LEGEND

EXTERIOR ELEVATION NO. **EXTERIOR ELEVATION SYMBOL**

SIGNAGE SYMBOL

DETAIL NO. SECTION/DETAIL/ PHOTO REFERENCE SYMBOL

SHEET NO.

BLDG.	DESCRIPTION	OCCUPANCY CONST. TYPE	TOTAL AREA	BASIC ALLOWABLE	ACTUAL < ALLOWABLE
1	2 STORY MODULAR CLASSROOM	OCC "E" TYPE VA	1ST FLR = 6,896 2ND FLR = 7,928 =14,824 S.F. INCLUDES EXIT BALCONIES & ROOF OVERHANG AREAS	74,000 S.F.	14,824 S.F < 74,000 S.F

SCOPE OF WORK

NEW CONSTRUCTION OF A 2 STORY MODULAR TYPE VA CLASSROOM BUILDING WITH BOY'S AND GIRLS RESTROOMS, EXTERIOR STAIRS, ANCILLARY SPACES, NEW PC ELEVATOR, PER PC-03-118291 & MECHANICAL ROOM, NEW ACCESSIBLE PARKING STALLS, NEW PARKING STALLS, FENCING, SITE CONCRETE/ASPHALT WALKWAYS, SITE SIGNAGE, UNDERGROUND UTILITIES CONNECTIONS TO THE BUILDING AND NEW BUILDING CONCRETE FOUNDATION SYSTEM WITH GROUND AIR VENTS.

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2021

PART 1 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CBSAC).

PART 2 2019 CALIFORNIA BUILDING CODE (CBC), TITLE 24, C.C.R.

(2018 INTERNATIONAL BUILDING CODE WITH 2019 WITH CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, C.C.R.

(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) PART 4 2019 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, C.C.R.

(2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA PLUMBING CODE (CPC), TITLE 24, C.C.R (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

PART 6 2019 CALIFORNIA ENERGY CODE (CEnC), TITLE 24, C.C.R. PART 9 2010 CALIFORNIA FIRE CODE (CFC),TITLE 24, C.C.R

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) PART 12 2019 CALIFORNIA REFERENCE STANDARDS CODE (CRSC), TITLE 24, C.C.R. REGULATIONS OF THE STATE FIRE MARSHAL, C.C.R. TITLE 19

PARTIAL LIST OF APPLICABLE STANDARDS

2019	CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDAF	RDS CHAPTER 3
NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
(NOTE:	SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	

NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

DSA NOTES

Statement of General Conformance

INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS. PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. 03-121340 File No. 19-41)

This drawing, page of specifications/calculations, or the attached list of items has been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

License Number Expiration Date

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

Drawings: see drawing list. SEE SHEET INDEX FOR DRAWINGS MARKED WITH (*)

Signature

BUILDING DATA

BUILDING HEIGHT: TWO STORY AUTOMATIC FIRE SPRINKLER:

GLENDALE UNIFIED SCHOOL DISTRICT 223 NORTH JACKSON GLENDALE, CA 91206 818-241-3111

ARCHITECT: DC ARCHITECTS 820 N. MOUNTAIN AVE. SUITE 200

CONSULTANTS

UPLAND, CALIFORNIA 91786 909-985-6939 RICHARD DUNCAN rduncan@dcarchitects.net

CIVIL ENGINEER: SWS ENGINEERING. INC.

31045 TEMECULA PARKWAY SUITE 201 TEMECULA, CA. 92592 760-744-0011 MICHAEL SCHWEITZER

MICHAEL@SWS-ENGR.COM

ENGINEOUS GROUP INC. 751 N. FAIR OAKS AVE., SUITE 201 PASADENA, CA. 91103 626-714-7506 **BRAD SEVERSON** brad@engineousgroup.com

ELECTRICAL ENGINEER

PLUMBING ENGINEER:

ENGINEOUS GROUP INC. 751 N. FAIR OAKS AVE., SUITE 201 PASADENA, CA. 91103 626-714-7506 **BRAD SEVERSON** brad@engineousgroup.com

MODULAR COMPANY:

American Modular Systems (AMS) 787 spreckles Ave. Manteca, CA. 95336 209-825-1921 americanmodular.com Architect: Randal Cavanagh Structural Engineer: Manny Frisch

BUILDING DATA, GENERAL NOTES, ABBREVIATIONS, VICINITY MAP, LEGENDS (^st) C2.0 DEMOLITION PLAN (*) C3.0 GRADING PLAN (*) C4.0 UTILITY PLAN

(*) C6.0 DETAIL SHEET ARCHITECTURAL - 12 A-1.0 PARTIAL SITE DEMO PLAN

(*) C5.0 EROSION CONTROL PLAN

GLENDALE UNIFIED SCHOOL DISTRICT

NEW 2-STORY MODULAR BUILDING

GLENOAKS ELEMENTARY SCHOOL

2015 E. GLENOAKS BLVD., GLENDALE, CA 91206

A-1.0A FLOOD MAP A-1.0B FIRE HAZARD ZONE MAP A-1.0C OVERALL ARIEL SITE PLAN A-1.0D PARTIAL SITE SURVEY PLAN

A-1.2 PARTIAL SITE PLAN - LOCAL FIRE AUTHORITY 2-STORY MODULAR CLASSROOM A-1.3 EXISTING/NEW ENLARGED SITE PLAN A-1.4 EXISTING ENLARGED RESTROOM

A-1.5 SITE DETAILS A-1.6 SITE DETAILS A-1.7 FIRST AND SECOND FLOOR SIGNAGE PLAN

SINGLE LINE DIAGRAM & LOAD CALCULATIONS DEMO SINGLE LINE DIAGRAM PANEL SCHEDULE **INSTALLATION DETAILS** OVERALL NEW/OLD ELECTRICAL SITE PLAN ELECTRICAL ENLARGED - FIRST FLOOR PLAN ELECTRICAL ENLARGED - SECOND FLOOR PLAN

> OVERALL COMMUNICATION SITE PLAN COMMUNICATION ENLARGED - FIRST FLOOR PLAN COMMUNICATION ENLARGED - SECOND FLOOR PLAN FIRE ALARM SYMBOLS & NOTES FIRE ALARM RISER DIAGRAM & CALCULATIONS OVERALL FIRE ALARM SITE PLAN

()*FA-2.2 FIRE ALARM - SECOND FLOOR PLAN **MODULAR BUILDING DRAWINGS**

AMERICAN MODULAR SYSTEMS (AMS) - 2

FIRE ALARM - FIRST FLOOR PLAN

GENERAL NOTES & SPECIFICATIONS GENERAL NOTES & SPECIFICATIONS SCHEDULES-DOORS, WINDOWS, & FINISHES ACCESSIBILITY STANDARDS & DETAILS **BUILDING SEPARATION DETAILS ENERGY CALCULATIONS**

ENERGY CALCULATIONS ENERGY CALCULATIONS ENERGY CALCULATIONS ENERGY CALCULATIONS GROUND FLOOR PLAN UPPER FLOOR PLAN

ENLARGED RESTROOM PLAN ROOFING DETAILS

INTERIOR ELEVATIONS - TYPICAL CLASSROOM INTERIOR ELEVATIONS - TYPICAL CLASSROOM **INTERIOR ELEVATIONS - RESTROOMS EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS**

EXTERIOR FINISH DETAILS MISCELLANEOUS ARCHITECTURAL DETAILS HVAC CHASE SECTIONS **TOTAL OF 121 DRAWING SHEETS**

SHEET INDEX

MODULAR BUILDING DRAWINGS AMERICAN MODULAR SYSTEMS (AMS) LIGHT GAUGE STEEL MEMBER PROPERTIES (*)S1.0 **FOUNDATION PLANS** (*)S1.1

FOUNDATION DETAILS FOUNDATION DETAILS

FOUNDATION DETAILS FOUNDATION DETAILS

FLOOR FRAMING PLAN - GROUND FLOOP FLOOR FRAMING PLAN - UPPER FLOOR **ROOF FRAMING PLAN - GROUND FLOOR** ROOF FRAMING DETAILS - GROUND FLOOF

ROOF FRAMING PLAN - UPPER FLOOR **ROOF FRAMING DETAILS - UPPER FLOOR**

PARAPET DETAILS

(*)S4.4 (*)S4.5 MOMENT FRAME CONNECTION DETAILS *) S5.2

(*) S5.3 MOMENT FRAME CONNECTION DETAILS (*)S6.0 **BUILDING SECTIONS** (*) S9.0 WALL FRAMING ELEVATIONS NANAWALL FRAMING ELEVATIONS & DETAILS *) S9.0A WALL FRAMING DETAILS

(*)s9.2 WALL FRAMING DETAILS (*)S9.3 (*)S10.0 **BUMP-OUT WALL DETAILS BALCONY FLOOR PLAN & DETAILS** STAIR PLAN & ELEVATIONS

*)S11.1 STAIR DETAILS STAIR RAILING & GUARDRAIL DETAILS SKYWALK DETAILS

REFLECTED CEILING/MECHANICAL PLAN GROUND FLOOR REFLECTED CEILING/MECHANICAL PLAN UPPER FLOOR

HVAC & CEILING DETAILS CEILING & MECHANICAL DETAILS CEILING NOTES. MECHANICAL NOTES & SCHEDULES

ELECTRICAL - 4 ELECTRICAL PLAN GROUND FLOOR ELECTRICAL PLAN UPPER FLOOR

ELECTRICAL NOTES & DETAILS ELECTRICAL PANEL SCHEDULES

PLUMBING PLANS & FIXTURE SCHEDULE PLUMBING DETAILS & ACCESSIBLE DETAILS

FIRE SPRINKLERS - 2 FIRE SPRINKLER COVER SHEET FIRE SPRINKLER LAYOUT/PIPING PLAN

COVER SHEET

TESTING & INSPECTION CRITERA GENERAL NOTES & ABBREVIATIONS FOUNDATION PIT PLAN FOUNDATION DETAILS FOR MAX 44'-0" TOWER HEIGHT

HOISTWAY & ROOF DETAILS HOISTWAY PLAN & ELEVATIONS-MAX 44'-0" TOWER HEIGHT HOISTWAY DETAILS MISCELLANEOUS DETAILS HOISTWAY WALL PANELS

MACHINE ROOM FRAMING PLAN & DETAILS RAIL & POWER UNIT DETAILS

ELEVATOR DATA
ELEVATOR LAYOUT (PARTIAL MACHINE ROOM) ELEVATOR CAB ACCESS COMPLIANCE

ABBREVIATIONS

@	AT THE RATE OF	COL.	COLUMN	F.D.	FLOOR DRAIN	MET.	METAL	PTD.	PAINTED	W.C.	WATER CLOSET
A.C.	ASPHALTIC CONCRETE	CONT.	CONTINUOUS	F.F.	FACTORY FINISH	MFGR.	MANUFACTURER	"R"	THERMAL VALUE	WD.	WOOD
A.C.C.	ACCESSIBLE	CONC.	CONCRETE	F.G.	FINISH GRADE	MIN.	MINIMUM	R.B.	RUBBER BASE	WDW.	WINDOW
ACT.	ACOUSTIC TILE	CONT'R.	CONTRACTOR	FIN.	FINISH	MISC.	MISCELLANEOUS	R.D.	ROOF DRAIN	W.H.	WATER HEATER
A.D.	AREA DRAIN	CFCI	CONTRACTOR FURNISHED,	FL.	FLOW LINE	MTD.	MOUNTED	S.A.T.	SUSPENDED ACOUSTICAL TILE	W.P.	WATERPROOF
ADJ.	ADJUSTABLE		CONTRACTOR INSTALLED	FLR.	FLOOR	MTL.	METAL	S.C.	SOLID CORE	W.R.	WATER RESISTAN
AFF	ABOVE FINISHED FLOOR	CPT.	CARPET	F.O.C.	FACE OF CONCRETE	(N.)	NEW	S.D.	STORM DRAIN		
ALUM.	ALUMINUM	CT.	CERAMIC TILE	F.O.S.	FACE OF STUD	N.I.C.	NOT IN CONTRACT	S.S.	SERVICE SINK		
ANOD.	ANODIZED	DET.	DETAIL	F.V	FIELD VERIFY	O.C.	ON CENTER	S.V.	SHEET VINYL		
ARCH.	ARCHITECT	DIM.	DIMENSION	G.A.	GUAGE	OFCI	OWNER FURNISHED,	T.C.	TOP OF CONC. OR CURB		
ВС	BOOK CASE	DR.	DOOR	GL.	GLASS		CONTRACTOR INSTALLED	T.O.R.	TOP OF RIDGE		
BD./BRD	BOARD	D.S.	DOWNSPOUT	GYP.BD.	GYPSUM BOARD	OFOI	OWNER FURNISHED,	T.O.S.	TOP OF SHEATHING		
B.M.	BENCH MARK	DWG.	DRAWING	H.C.	HOLLOW CORE		OWNER INSTALLED	TYP.	TYPICAL		
CAB.	CABINET	EA.	EACH	H.M.	HOLLOW METAL	O.F.D.	OVERFLOW DRAIN	U.B.C.	UNIFORM BUILDING CODE		
CLG.	CEILING	(E.)	EXISTING	INSUL.	INSULATION	PH	PANIC HARDWARE ON DOORS	UNO	UNLESS NOTED OTHERWISE		
CER.T.	CERAMIC TILE	ÈLÉCT.	ELECTRICAL	LAV.	LAVATORY	PLY'WD.	PLYWOOD	V.T.	VINYL TILE		
CL.	CENTER LINE	EQ.	EQUAL	L.P.	LAMINATED PLASTIC	P.S.	PRESSED STEEL	W/	WITH		

SIGNAGE & NOTES (1)

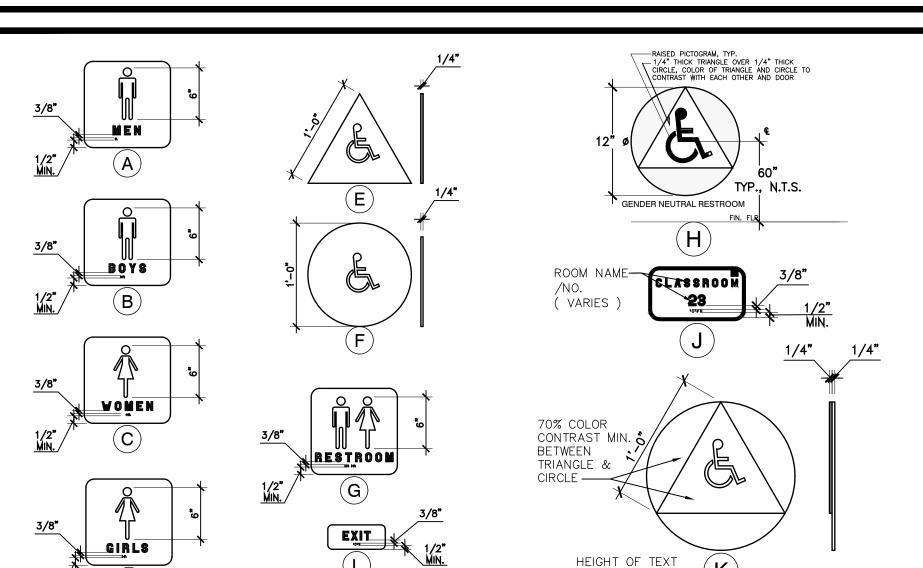
5/8" - 2"

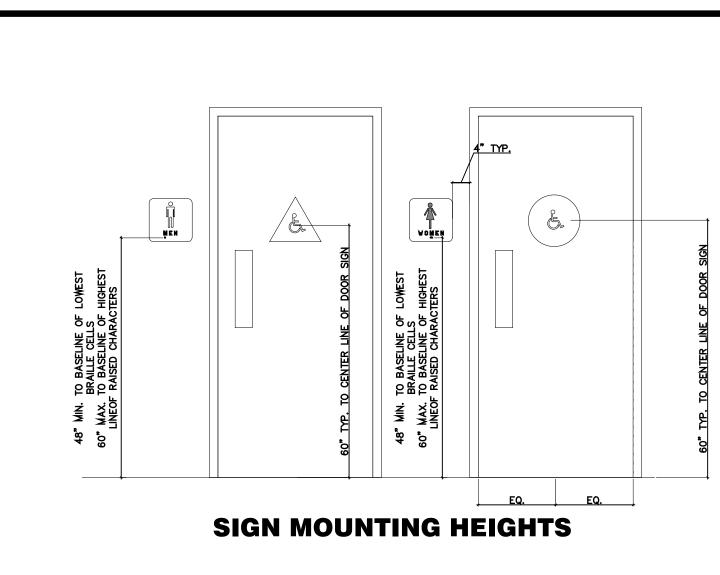
2016 EDITION 2015 EDITION

2015 EDITION

Richard D. Duncan

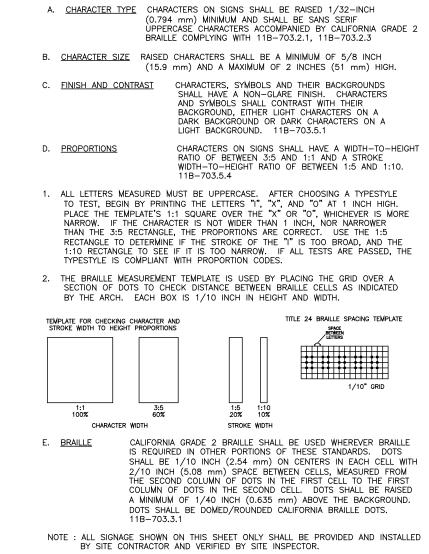
Print Name





C.O.

CLEAN OUT



GENERAL NOTES

ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA OF REGULATIONS. (CCR) CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, CCR. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND

SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

A DSA INSPECTOR WITH CLASS 1 CERTIFICATION IS REQUIRED FOR THIS PROJECT. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION. REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA

BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR). GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED

SUBMITTAL ITEMS FOR THIS PROJECT. CALIFORNIA GEOLOGICAL SURVEY HAZARD REVIEW PROJECT NUMBER (03-CGS4862) SUBMITTED ON MARCH 12, 2021 AND REVIEW DATE MAY 3, 2021.

VICINITY MAP



LDING TES, A

GRADING NOTES

- ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT
- 2. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED PROFESSIONAL CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST.
- 3. PROPOSED BUILDING PADS, STRUCTURAL IMPROVEMENT AREAS, AND AREAS TO RECEIVE FILL SHOULD BE CLEARED OF ANY DELETERIOUS MATERIAL, VEGETATION, ASPHALT, CONCRETE AND DEBRIS PRIOR TO COMMENCING GRADING. ANY ORGANIC OR UNSUITABLE MATERIAL GENERATED SHOULD BE EXPORTED FROM THE SITE. THE REMOVAL OF UNSUITABLE MATERIALS SHOULD BE OBSERVED BY THE GEOTECHNICAL CONSULTANT TO EVALUATE THE COMPETENCY OF THE EXPOSED MATERIALS FOR SUPPORT OF STRUCTURAL AND FILL LOADS.
- 4. BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED.
 WHEN TREES ARE REMOVED, THE ROOT SYSTEM SHALL ALSO BE REMOVED AND
 THE RESULTING EXCAVATION FILLED WITH PROPERLY COMPACTED FILL SOILS.
- 5. ANY MAN-MADE STRUCTURES OR IMPROVEMENTS WITHIN THE GRADING LIMITS, THAT ARE NOT TO BE SAVED FOR FUTURE USE, SHOULD BE DEMOLISHED AND LEGALLY DISPOSED OFF-SITE. SUBSURFACE IMPROVEMENTS OR OBSTRUCTIONS THAT ARE TO BE REMOVED SHOULD BE EXCAVATED AND HAULED OFF-SITE. THE RESULTING EXCAVATIONS SHOULD BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT. MAN-MADE IMPROVEMENTS TO BE SAVED SHOULD BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.
- 6. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF LOCATION OF EXISTING FACILITIES.
- 7. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- 8. THE PAVEMENT SECTIONS SHOWN ON THESE PLANS ARE PRELIMINARY. FINAL PAVEMENT SECTIONS SHOULD BE DETERMINED ONCE SUBGRADE ELEVATIONS HAVE BEEN ATTAINED AND R-VALUE TESTING ON SUBGRADE SAMPLES IS PERFORMED.
- 9. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS—SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENT SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPE SHALL BE REMOVED AND DISPOSED OF.
- 10. DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER COMPLETION: AFTER GRADING IS COMPLETED AND THE SOILS ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE EXCEPT UNDER THE OBSERVATION OF THE SOILS ENGINEER.
- 11. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL OF THE ROUTE AND SITE LOCATION FOR EXPORT AND/OR IMPORT MATERIALS.
- 13. REMEDIAL GRADING MAY BE NECESSARY TO REMOVE COMPRESSIBLE SOILS BENEATH STRUCTURES OR STRUCTURAL FILLS, BENEATH EXTERIOR FLATWORK AND PAVEMENT AREAS, OR WHEREVER THE EXISTING SOILS ARE DISTURBED DUE TO DEMOLITION OF EXISTING STRUCTURES OR IMPROVEMENTS. REMEDIAL GRADING SHOULD CONSIST OF COMPLETE REMOVAL OF COMPRESSIBLE SOILS UNTIL COMPETENT SOILS ARE EXPOSED. REMEDIAL EXCAVATIONS SHOULD INCLUDE ALL AREAS THAT WILL SUPPORT STRUCTURES, IMPROVEMENTS OR NEW FILLS. EXCAVATION BOTTOMS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO EVALUATE THE NEED FOR DEEPER REMOVALS.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF PERRIS FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- 2. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- 3. CONTRACTOR TO VERIFY EXACT PERIMETER OF DEMOLITION AND AREA OF WORK FOR THE PROJECT. AREA SHOWN IS APPROXIMATE.

SPECIAL NOTES

- 1. ALL LANDSCAPE AREAS SHALL BE GRADED TO SLOPE AWAY FROM STRUCTURES AND PROPERTY LINES TOWARD LANDSCAPE DRAINAGE SWALES AND OR SITE DRAIN INLETS AT 2% MINIMUM GRADIENT (1% WHERE FLOW IS CONCENTRATED). SMOOTH FINISH GRADES TO ELIMINATE PONDING OR STANDING WATER.
- 2. ALL LANDSCAPE DRAINS SHALL BE 4" MINIMUM CONSTRUCTED WITH RIGID BELOW GRADE PIPING WITH A 1% MINIMUM GRADIENT UNLESS OTHERWISE NOTED.
- 3. LANDSCAPE DRAINS, CATCH BASINS, INLETS, ETC. SHOWN HEREON ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COMPLETE DRAINAGE SYSTEMS AND ADJUST THE LAYOUT AS REQUIRED TO MATCH SITE CONDITIONS AND/OR MINOR DISCREPANCIES WITH THESE PLANS.

CONTRACTOR SHALL NOTIFY ENGINEER UPON THE DISCOVERY OF AREAS WHICH

DO NOT DRAIN PROPERLY OR ANY OTHER DISCREPANCY OR AREA WHICH HAS

- 4. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MAINTAIN PROPER DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION.
- NOT BEEN ADEQUATELY ADDRESSED AS A RESULT OF A FIELD CONDITION OR ANOMALY IN THE TOPOGRAPHY.

 6. HARDSCAPE GRADES SHALL BE 0.02' BELOW DRIP SCREED AT HIGHEST POINT NEAR STRUCTURE AND SHALL SLOPE AT A 1% MINIMUM GRADE TO DRAINS OR
- LANDSCAPE AREAS. HARDSCAPE SHALL SLOPE AND DRAIN AWAY FROM THE STRUCTURE UNLESS OTHERWISE NOTED.
- 7. THE HIGHEST ADJACENT GRADE AGAINST STRUCTURE FOOTINGS SHALL BE PER THE LATEST CALIFORNIA BUILDING CODE AND GREEN BOOK STANDARDS.
- 8. EARTHWORK QUANTITIES SHOWN HEREON ARE RAW QUANTITIES CALCULATED FOR PERMIT AND/OR BONDING PURPOSES ONLY. UNLESS NOTED, THEY DO NOT INCLUDE POTENTIAL SHRINKAGE OR BULKING FACTORS, REMEDIAL GRADING, FOOTING SPOILS, UTILITY TRENCH SPOILS, ETC. THE CONTRACTOR SHALL VERIFY QUANTITIES TO THEIR OWN SATISFACTION.
- 9. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE SHOULD BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON. ALL DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.
- 10. CONTRACTOR SHALL NOTIFY DIGALERT OR UNDERGROUND SERVICE ALERT (USA)
 @ 811 AT LEAST TWO DAYS BEFORE START OF CONSTRUCTION.
- 11. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- 12. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- 13. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD THE JURISDICTIONAL AGENCY AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE JURISDICTIONAL AGENCY OR DESIGN PROFESSIONAL.
- 14. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS, THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULTS FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- 16. CONTRACTOR SHALL NOTIFY THE LOCAL GAS & ELECTRIC UTILITY AGENCY PRIOR TO STARTING WORK NEAR AGENCY FACILITIES AND SHALL COORDINATE HIS WORK WITH AGENCY REPRESENTATIVES. NOTICE: ELECTRICAL AND GAS SERVICES MAY BE "UNDERGROUND INSTALLATIONS". USA WILL NOT HAVE ANY ON—SITE UNDERGROUND INFORMATION, CONTRACTOR SHALL SECURE SERVICES OF PRIVATE UTILITY LOCATOR SERVICE.
- 17. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER OF UTILITIES OR STRUCTURES PRIOR TO ANY EXCAVATION FOR VERIFICATION AND LOCATION OF UTILITIES.

EROSION AND SEDIMENT CONTROL NOTES

- 1. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE LOCAL AGENCY.
- GRADING FOR THE PROJECT SHOULD BE ENCOURAGED DURING THE DRY SEASON (APRIL 1 THROUGH OCTOBER 31). GRADING WHICH OCCURS DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15) SHALL REQUIRE EROSION CONTROL MEASURES.
- 3. EMERGENCY EROSION CONTROL MEASURES ARE REQUIRED TO CONTROL SOIL MOVEMENT SATISFACTORY TO THE INSPECTOR IN THE EVENT THE SITE IS EXPOSED TO EROSION DURING THE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, SLOPE PROTECTION, INSTALLATION OF JUTE MATING OR APPROVED EQUIVALENT, SILTING BASINS, SILT CONTROL, GRAVEL BAGGING AND STORM DRAINS.
- 4. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES
 TO WORKING ORDER TO THE SATISFACTION OF THE INSPECTOR AFTER EACH
 RUN-OFF PRODUCING RAINFALL.
- 6. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSON/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE AGENCY PERSONNEL DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- 8. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- 9. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF

THE INSPECTOR.

- 10. TEMPORARY EROSION CONTROL DEVICES SHOWN ON GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
- 11. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- 12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- 13. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- 14. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4—INCH MINIMUM AGGREGATE
- 15. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.0' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
- 16. GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 CALENDAR DAYS SHALL BE TEMPORARILY REVEGETATED WITH A NON—IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL.

TOPOGRAPHY SOURCE

THE EXISTING TOPOGRAPHY AS SHOWN ON THESE PLANS IS BASED ON AN AERIAL MAP DONE BY SWS ENGINEERING ON 9/21/2020

BASIS OF BEARINGS

ASSUMED CL OF GLENOAKS BLVD. I.E. N 76°49'30" W

BENCHMARK

CITY OF GLENDALE BM814

NAIL IN SOUTHERLY CURB GLENOAKS BLVD. 2.0 FT

WESTERLY BCR SOUTHWESTERLY CORNER

STANDARDS AND SPECIFICATIONS

WORK SHOWN ON THE PLANS SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS:

- 1. 2012 STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
 2. 2018 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN
- 3. 2019 CALIFORNIA BUILDING CODE

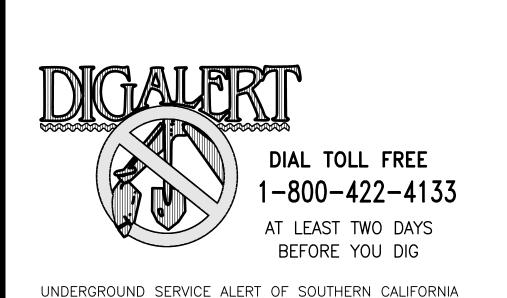
ANY CHANGE OR REVISIONS THEREFORE SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

CIVIL SHEET INDEX

C1.0	GENERAL NOTES
C2.0	DEMOLITION PLAN
C3.0	GRADING PLAN
C4.0	UTILITY PLAN
C5.0	EROSION CONTROL PLAN
C6.0	DETAIL SHEET

ABBREVIATIONS

ADDITEVIA	110143		
AC	ASPHALT CONCRETE	PIV	POST INDICATOR VALVE
AB	AGGREGATE BASE	PL	PROPERTY LINE
CB	CATCH BASIN	PA	PLANTED AREA
<i>CF</i>	CURB FACE	R/W	RIGHT-OF-WAY
CL	CENTERLINE	ŔD	ROOF DRAIN
CLR	CLEAR	S=	SLOPE
CO	CLEAN OUT	SD	STORM DRAIN
DDC	DOUBLE DETECTOR CHECK		STANDARD SPECIFICATIONS FOR
EC	EDGE OF CONCRETE		PUBLIC WORK CONSTRUCTION
EX	EXISTING	SWR	SEWER
FDC	FIRE DPT CONNECTION	SS	SANITARY SEWER
FF	FINISH FLOOR	TC	TOP OF CURB
FG	FINISH GRADE	TF	TOP OF FOOTING
FS	FINISH SURFACE	TG	TOP OF GRATE
FH	FIRE HYDRANT	<i>TW</i>	TOP OF WALL
FL	FLOW LINE	TYP	TYPICAL
G	GAS	<i>W</i>	WATER
<i>GB</i>	GRADE BREAK	<i>WM</i>	WATER METER
HP	HIGH POINT	<i>WV</i>	WATER VALVE
IE	INVERT ELEVATION	NDS	NATION DIVERSIFIED SALES
LD	LOCAL DEPRESSION	SDR	PIPE SCHEDULE
LG	LIP OF GUTTER	HDPE	HIGH DENSITY POLYETHYLENE
LP	LOW POINT	SDRSD	SAN DIEGO AREA REGIONAL STANDARD DRAW
MAX	MAXIMUM	RCP	REINFORCED CONCRETE PIPE
MH	MANHOLE	RCB	REINFORCED CONCRETE BOX
MIN	MINIMUM	CASQA	CALIFORNIA STORMWATER QUALITY ASSOCIATI
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION



SCENOAKS ELEMENTARY SCHOOL

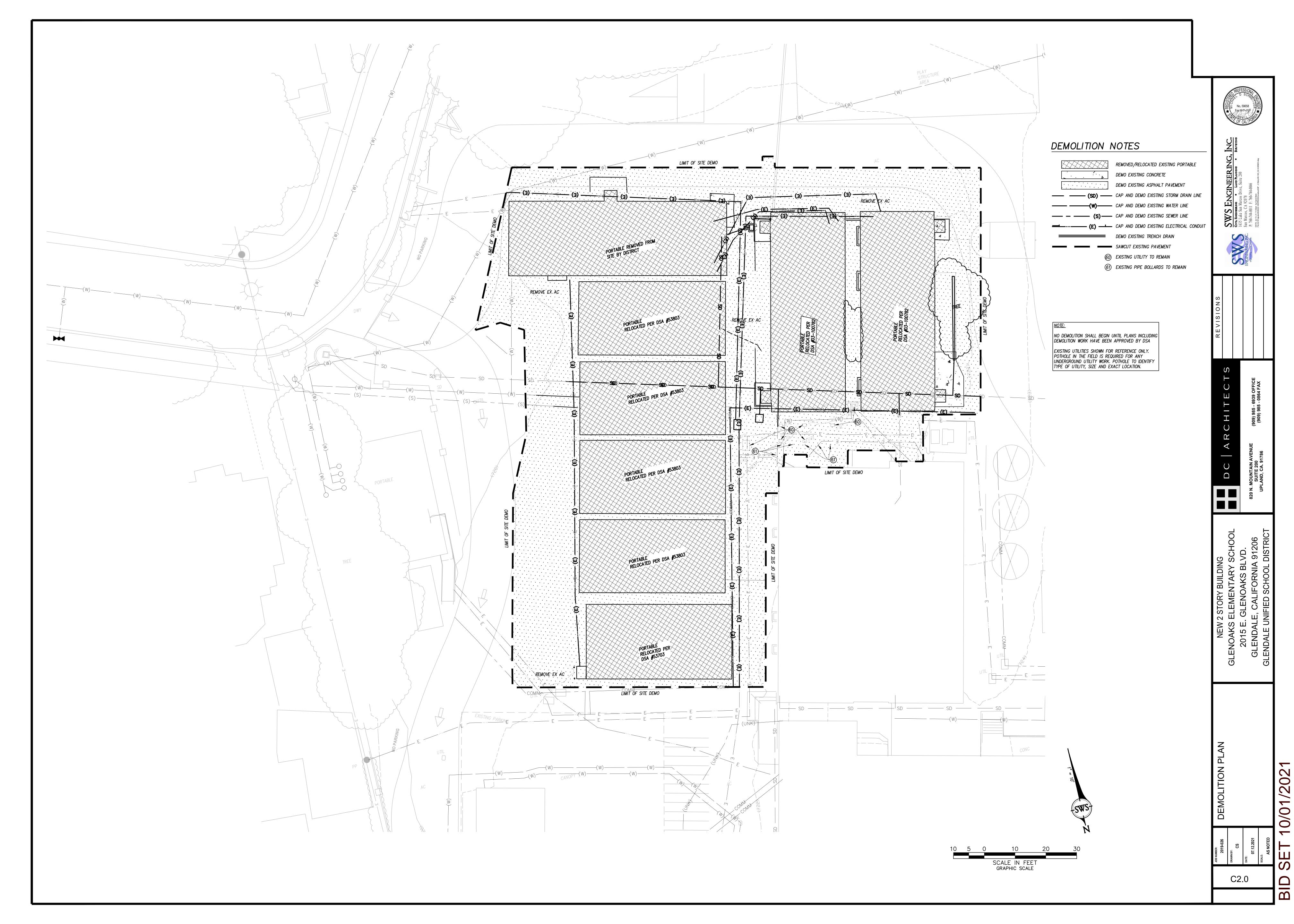
2015 E. GLENOAKS BLVD.

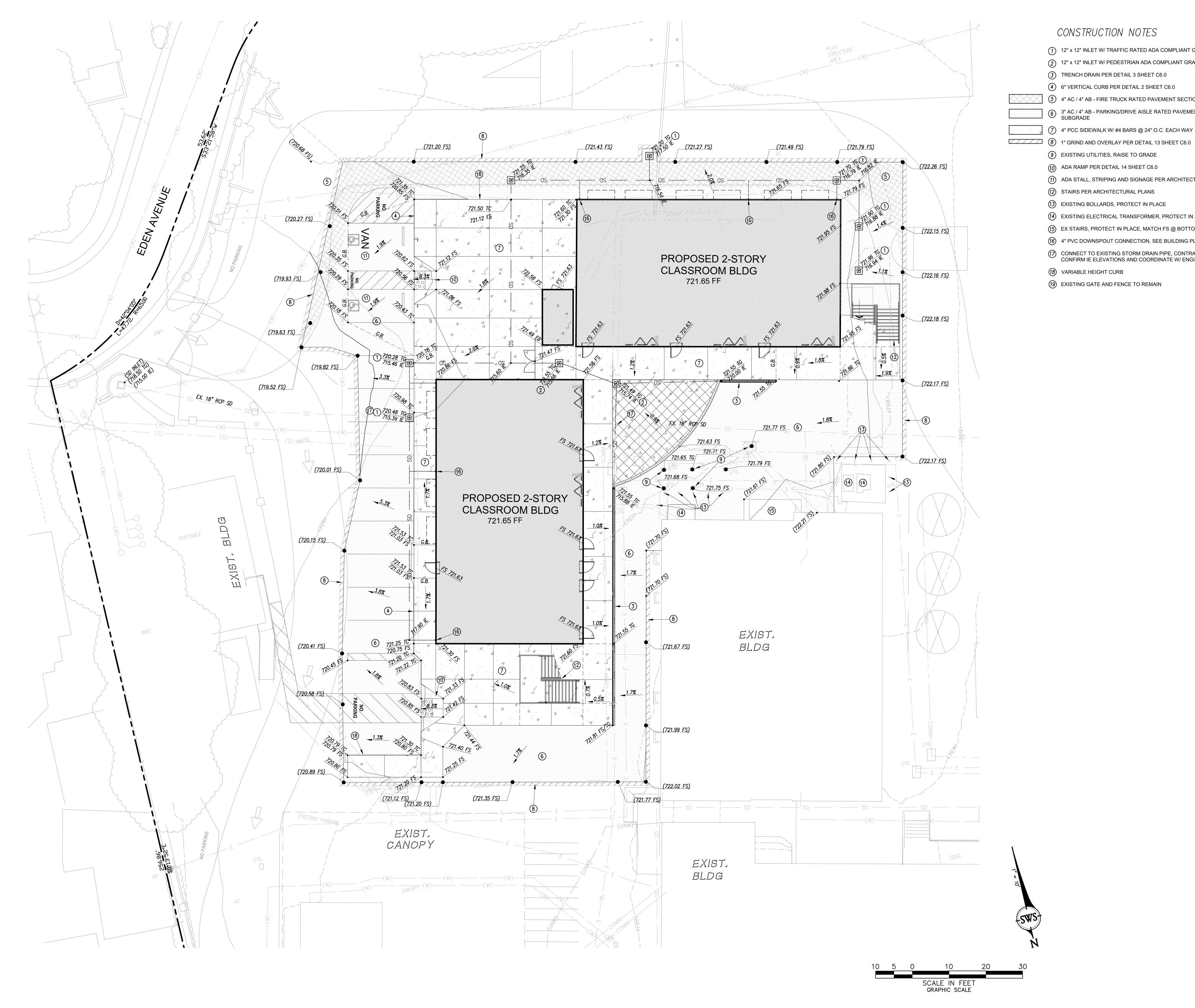
GLENDALE, CALIFORNIA 91206

GLENDALE UNIFIED SCHOOL DISTRICT

GLENAGE UNIFIED SCHOOL DISTRICT

GLEN

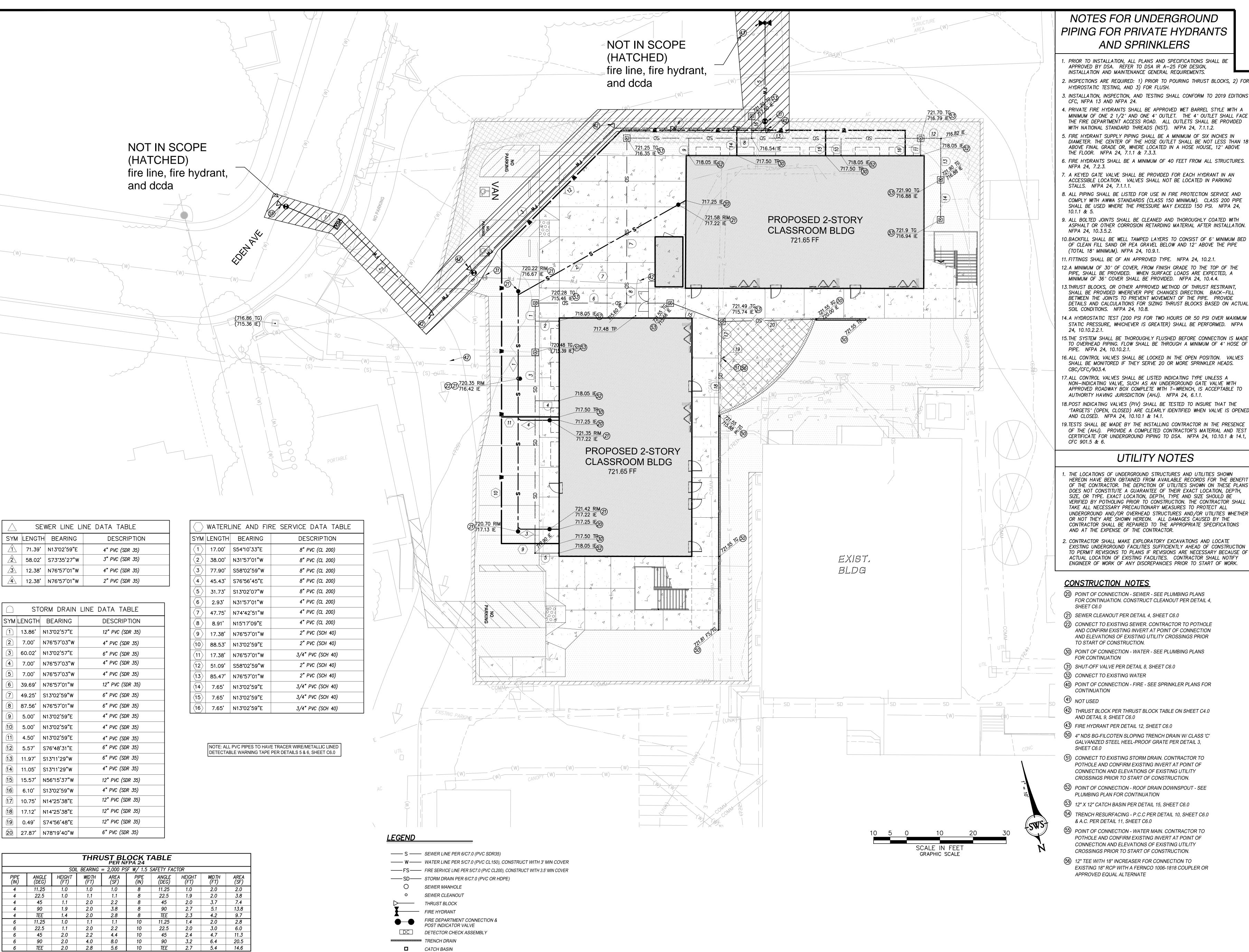




CONSTRUCTION NOTES

- 1) 12" x 12" INLET W/ TRAFFIC RATED ADA COMPLIANT GRATE PER DETAIL 15, SHEET C6.0
- (2) 12" x 12" INLET W/ PEDESTRIAN ADA COMPLIANT GRATE PER DETAIL 15, SHEET C6.0
- 3 TRENCH DRAIN PER DETAIL 3 SHEET C6.0
- 6" VERTICAL CURB PER DETAIL 2 SHEET C6.0
- 5 4" AC / 4" AB FIRE TRUCK RATED PAVEMENT SECTION OVER 12" 95% COMPACTED SUBGRADE
- 3" AC / 4" AB PARKING/DRIVE AISLE RATED PAVEMENT SECTION OVER 12" 95% COMPACTED SUBGRADE
- 7 4" PCC SIDEWALK W/ #4 BARS @ 24" O.C. EACH WAY
- EXISTING UTILITIES, RAISE TO GRADE
- (10) ADA RAMP PER DETAIL 14 SHEET C6.0
- (1) ADA STALL, STRIPING AND SIGNAGE PER ARCHITECTURAL PLANS
- (12) STAIRS PER ARCHITECTURAL PLANS
- (3) EXISTING BOLLARDS, PROTECT IN PLACE
- (4) EXISTING ELECTRICAL TRANSFORMER, PROTECT IN PLACE
- (15) EX STAIRS, PROTECT IN PLACE, MATCH FS @ BOTTOM STEP (6) 4" PVC DOWNSPOUT CONNECTION, SEE BUILDING PLANS FOR CONTINUATION
- (7) CONNECT TO EXISTING STORM DRAIN PIPE, CONTRACTOR TO POTHOLE EXIST. SD LINE TO CONFIRM IE ELEVATIONS AND COORDINATE W/ ENGINEER
- (18) VARIABLE HEIGHT CURB
- (9) EXISTING GATE AND FENCE TO REMAIN





NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS AND SPRINKLERS

PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY DSA. REFER TO DSA IR A-25 FOR DESIGN,

INSTALLATION AND MAINTENANCE GENERAL REQUIREMENTS.

2. INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS, 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH.

3. INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2019 EDITIONS CFC, NFPA 13 AND NFPA 24. 4. PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A

MINIMUM OF ONE 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST). NFPA 24, 7.1.1.2. 5. FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN

DIAMETER. THE CENTER OF THE HOSE OUTLET SHALL BE NOT LESS THAN 18" ABOVE FINAL GRADE OR, WHERE LOCATED IN A HOSE HOUSE, 12" ABOVE THE FLOOR. NFPA 24, 7.1.1 & 7.3.3.

7. A KEYED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING

8. ALL PIPING SHALL BE LISTED FOR USE IN FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS (CLASS 150 MINIMUM). CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI. NFPA 24,

9. ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION.

10.BACKFILL SHALL BE WELL TAMPED LAYERS TO CONSIST OF 6" MINIMUM BED OF CLEAN FILL SAND OR PEA GRAVEL BELOW AND 12" ABOVE THE PIPE

11. FITTINGS SHALL BE OF AN APPROVED TYPE. NFPA 24, 10.2.1. 12. A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE TOP OF THE

MINIMUM OF 36" COVER SHALL BE PROVIDED. NFPA 24, 10.4.4. 13. THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION. BACK-FILL

14. A HYDROSTATIC TEST (200 PSI FOR TWO HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE PERFORMED. NFPA

15.THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF 4" HOSE OF

16. ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE MONITORED IF THEY SERVE 20 OR MORE SPRINKLER HEADS.

17. ALL CONTROL VALVES SHALL BE LISTED INDICATING TYPE UNLESS A NON-INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T-WRENCH, IS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION (AHJ). NFPA 24, 6.1.1.

18. POST INDICATING VALVES (PIV) SHALL BE TESTED TO INSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPENED AND CLOSED. NFPA 24, 10.10.1 & 14.1.

19.TESTS SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AHJ). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO DSA. NFPA 24, 10.10.1 & 14.1,

UTILITY NOTES

. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE SHOULD BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON. ALL DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS

2. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL NOTIFY

(20) POINT OF CONNECTION - SEWER - SEE PLUMBING PLANS FOR CONTINUATION. CONSTRUCT CLEANOUT PER DETAIL 4,

(21) SEWER CLEANOUT PER DETAIL 4, SHEET C6.0

(22) CONNECT TO EXISTING SEWER. CONTRACTOR TO POTHOLE AND CONFIRM EXISTING INVERT AT POINT OF CONNECTION AND ELEVATIONS OF EXISTING UTILITY CROSSINGS PRIOR

(30) POINT OF CONNECTION - WATER - SEE PLUMBING PLANS

(31) SHUT-OFF VALVE PER DETAIL 8, SHEET C6.0

(40) POINT OF CONNECTION - FIRE - SEE SPRINKLER PLANS FOR

AND DETAIL 9. SHEET C6.0

(43) FIRE HYDRANT PER DETAIL 12, SHEET C6.0

(50) 4" NDS BG-FILCOTEN SLOPING TRENCH DRAIN W/ CLASS 'C' GALVANIZED STEEL HEEL-PROOF GRATE PER DETAIL 3,

(51) CONNECT TO EXISTING STORM DRAIN. CONTRACTOR TO POTHOLE AND CONFIRM EXISTING INVERT AT POINT OF CONNECTION AND ELEVATIONS OF EXISTING UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION.

52 POINT OF CONNECTION - ROOF DRAIN DOWNSPOUT - SEE PLUMBING PLAN FOR CONTINUATION

(53) 12" X 12" CATCH BASIN PER DETAIL 15, SHEET C6.0

(54) TRENCH RESURFACING - P.C.C PER DETAIL 10, SHEET C6.0

55 POINT OF CONNECTION - WATER MAIN. CONTRACTOR TO POTHOLE AND CONFIRM EXISTING INVERT AT POINT OF CONNECTION AND ELEVATIONS OF EXISTING UTILITY

(56) 12" TEE WITH 18" INCREASER FOR CONNECTION TO EXISTING 18" RCP WITH A FERNCO 1006-1818 COUPLER OR APPROVED EQUAL ALTERNATE

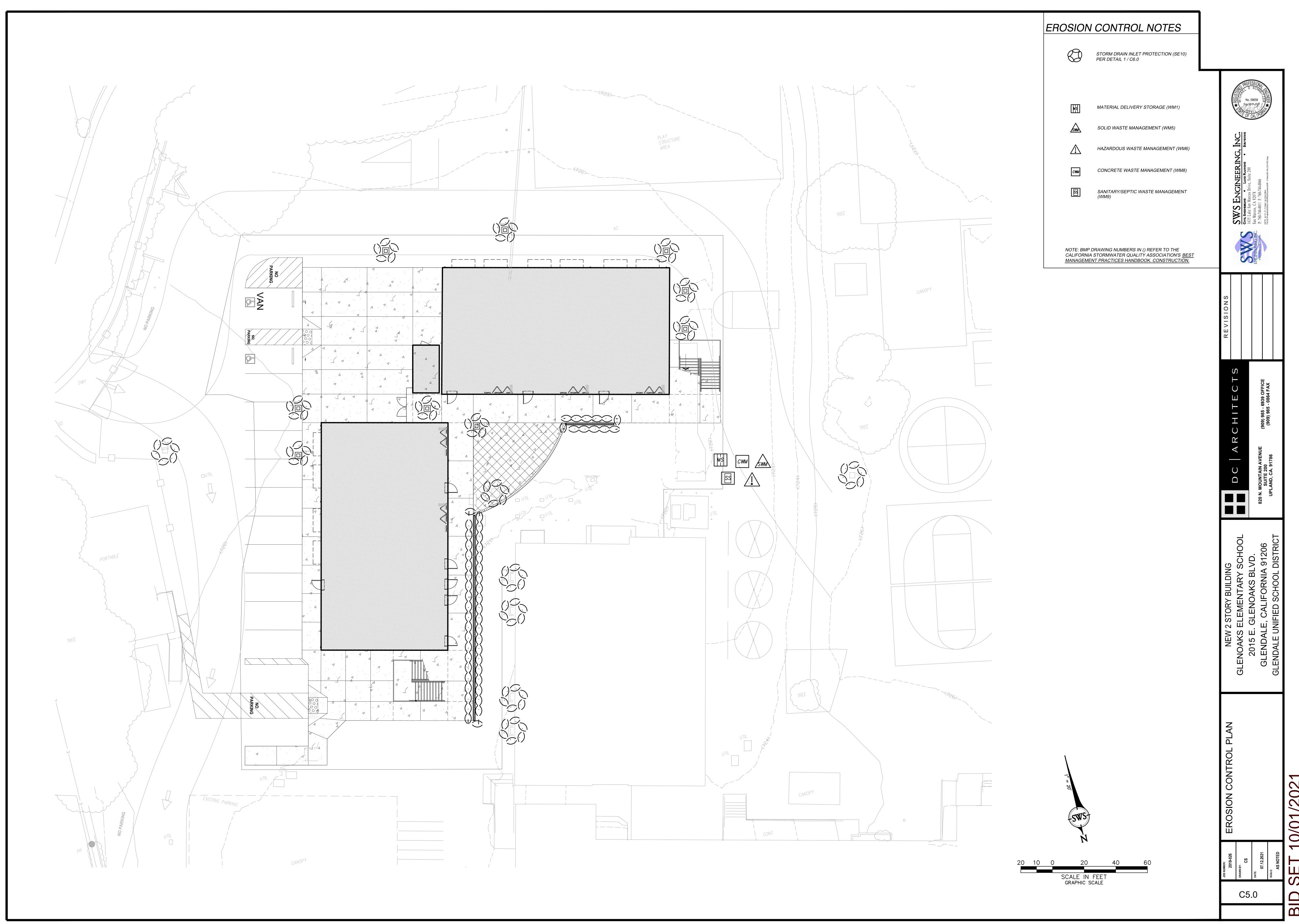


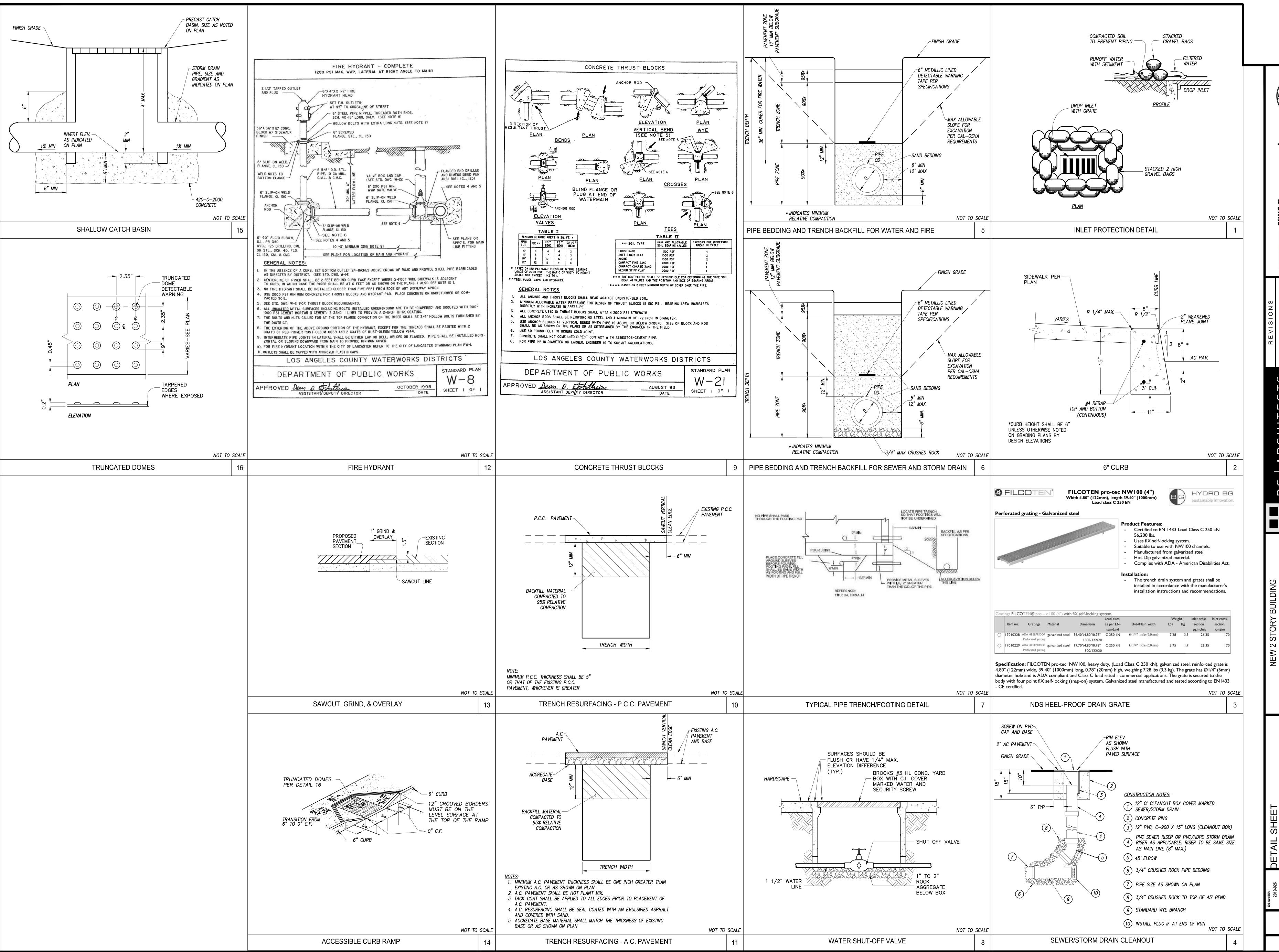


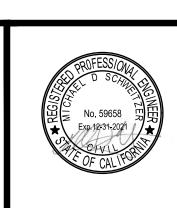
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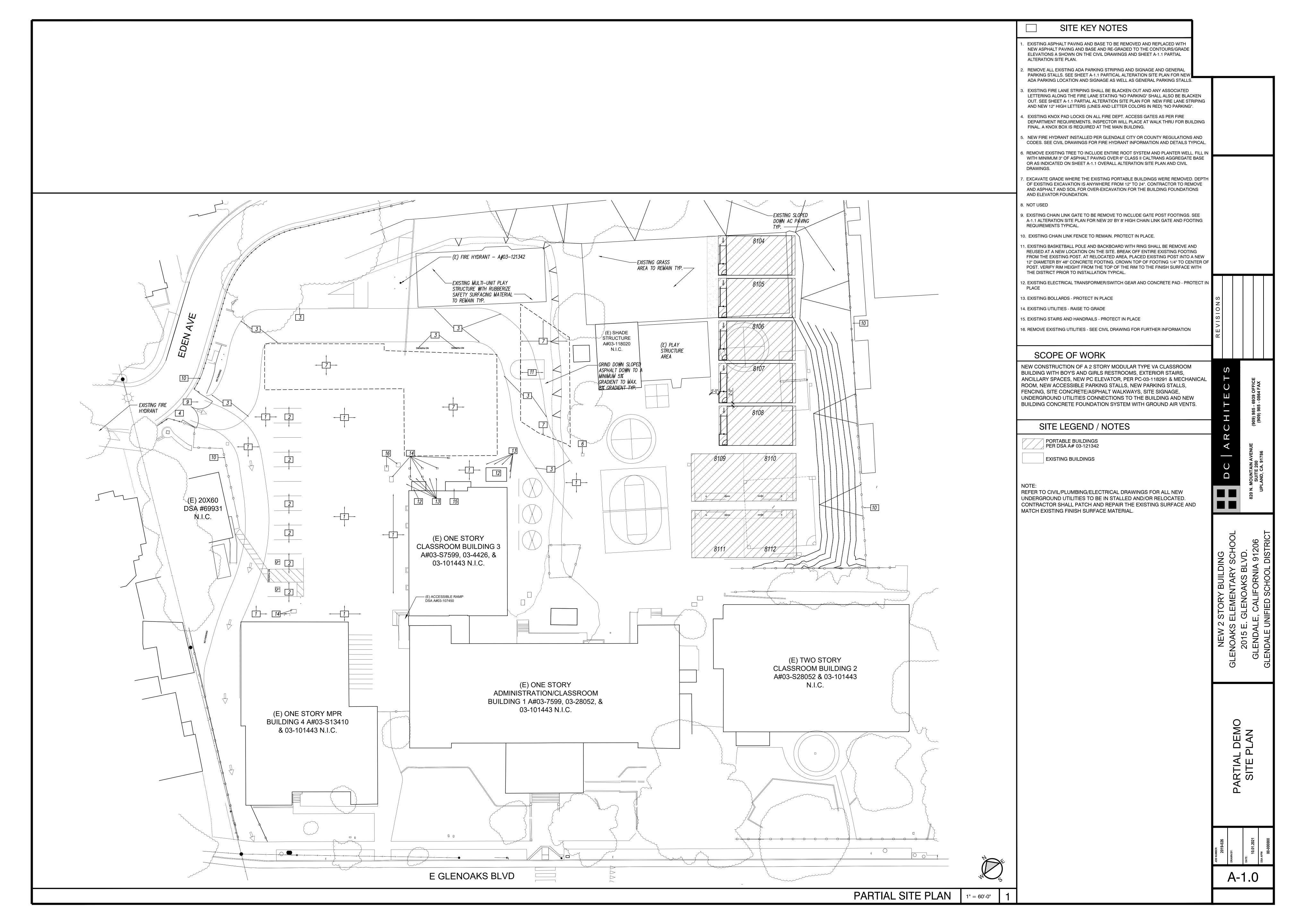


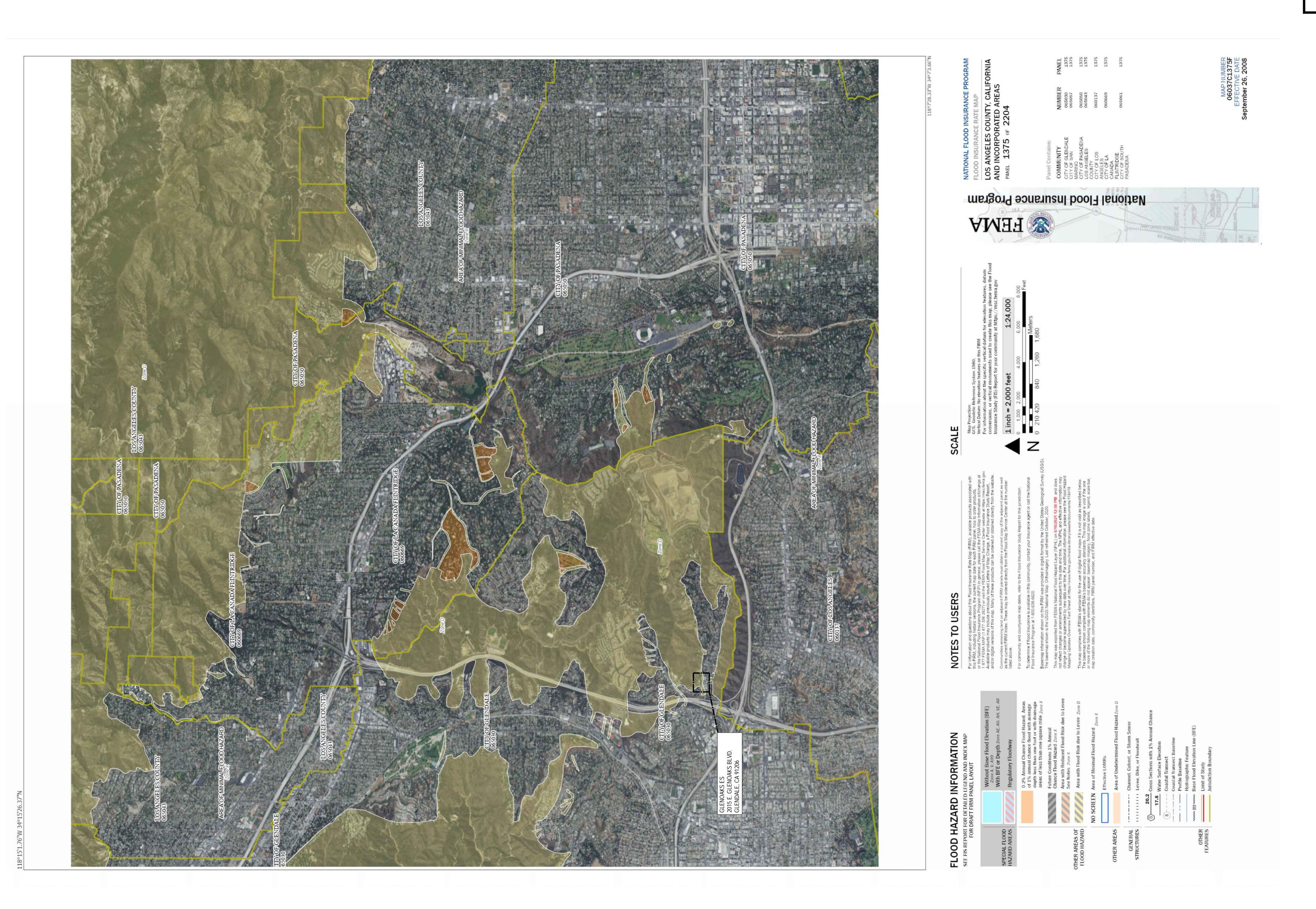


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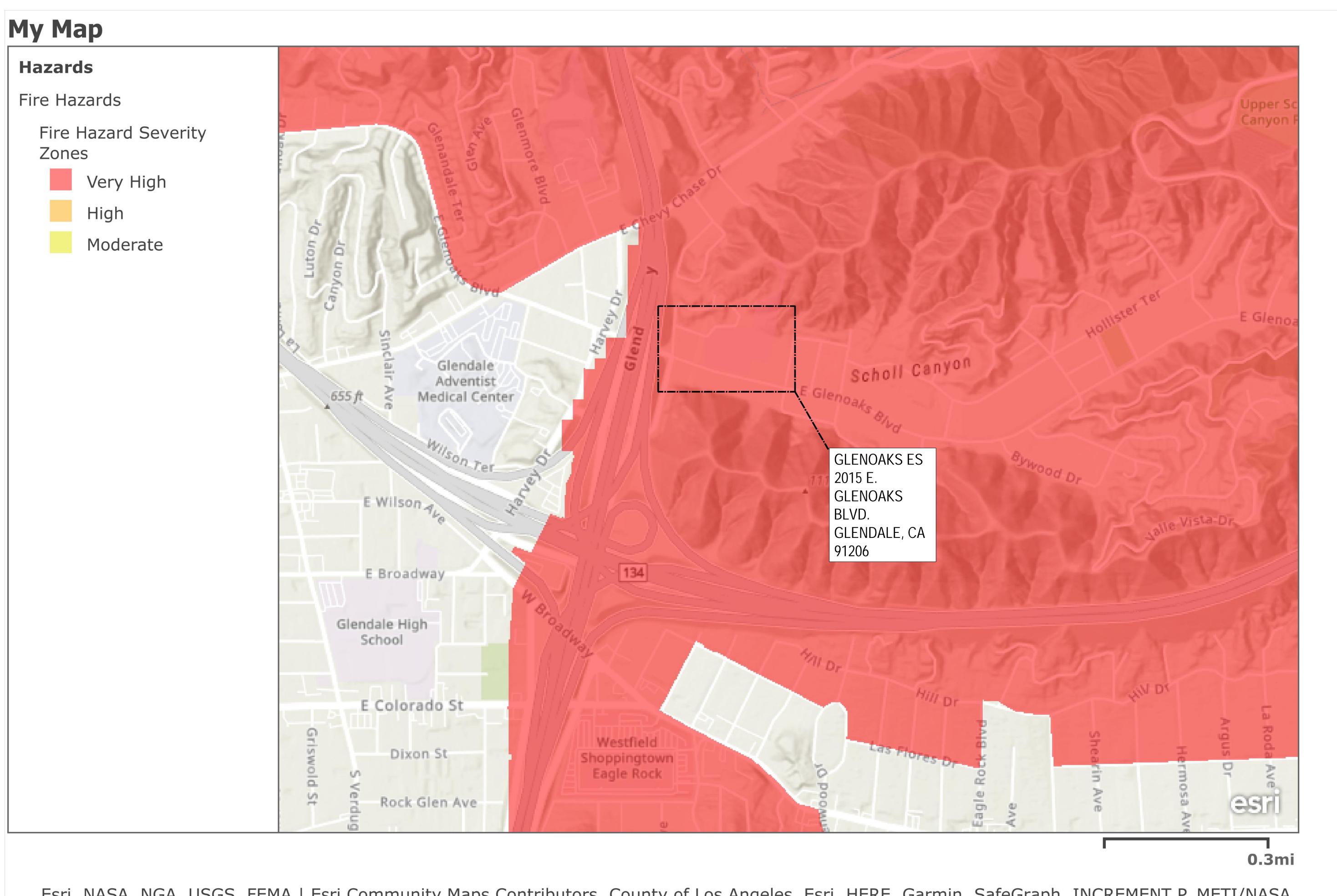
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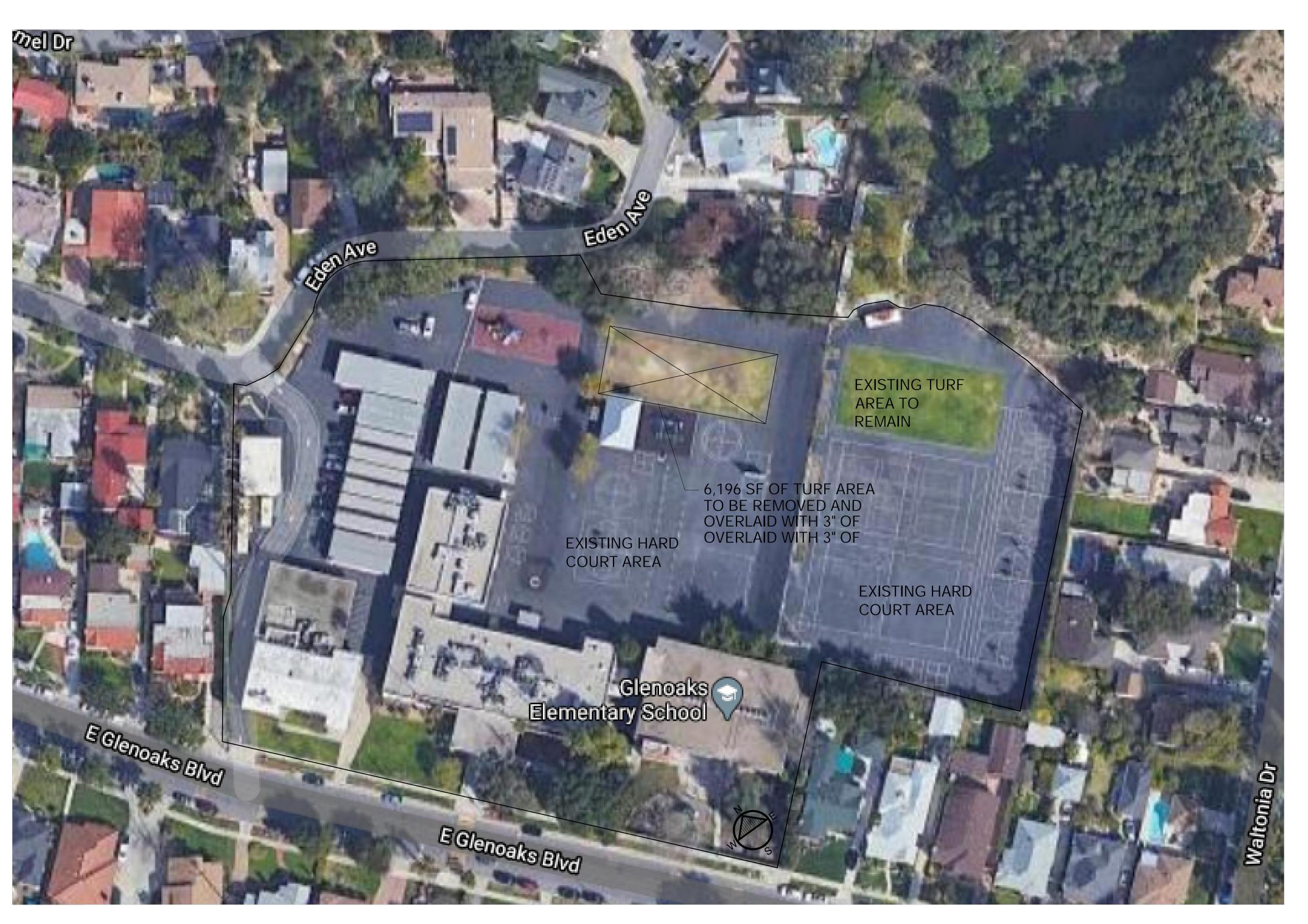
REVISIONS					
		VENUE	SUITE 200 (303) 363 - 6333 OFFICE (904) 985 - 0864 FAX (909) 985 - 0864 FAX		
NEW 2 STORY BUILDING	GLENOAKS ELEMENTARY SCHOOL	ZU15 E. GLENOAKS BLVD.	GLENDALE, CALIFORNIA 91206	GLENDALE UNIFIED SCHOOL DISTRICT	
	FLOOD MAP				
JOB NUMBER: 2019-026	DRAWN BY: A.C.T.	DATE: 10 01 2021	DSA APP#	000000-00	



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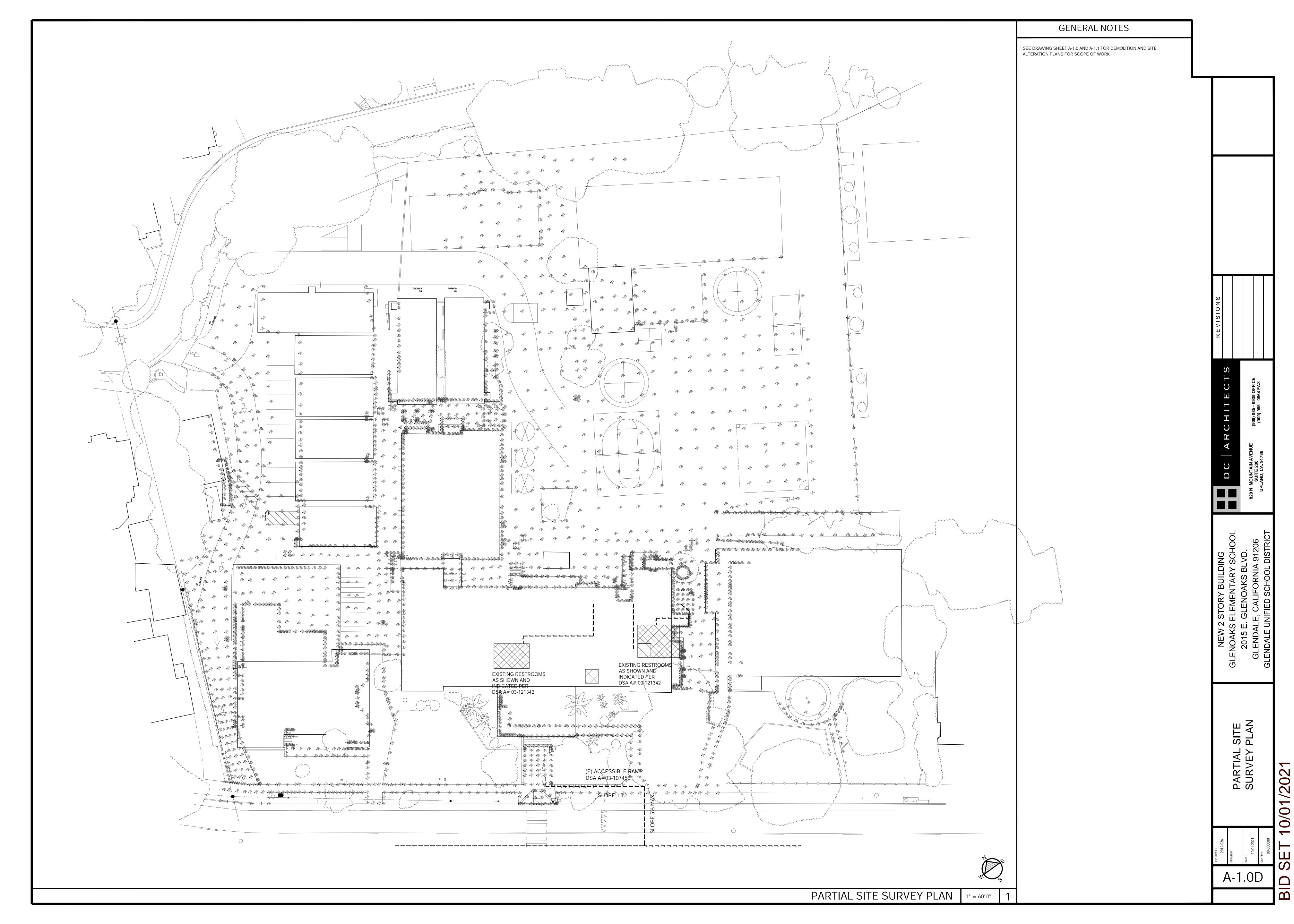


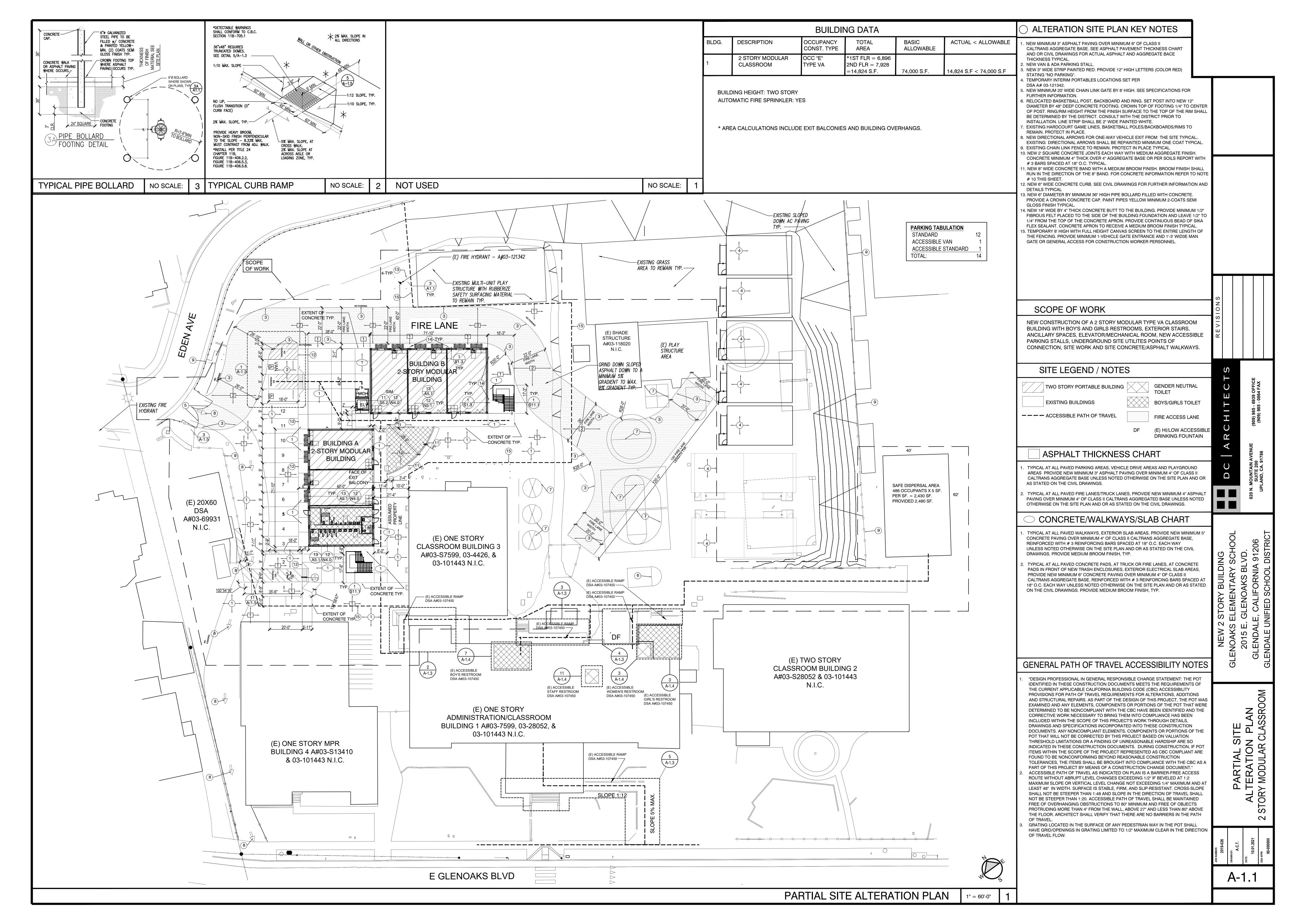
AREA OF SCOPE OF WORK FOR 2-STORY MODULAR BUILDING

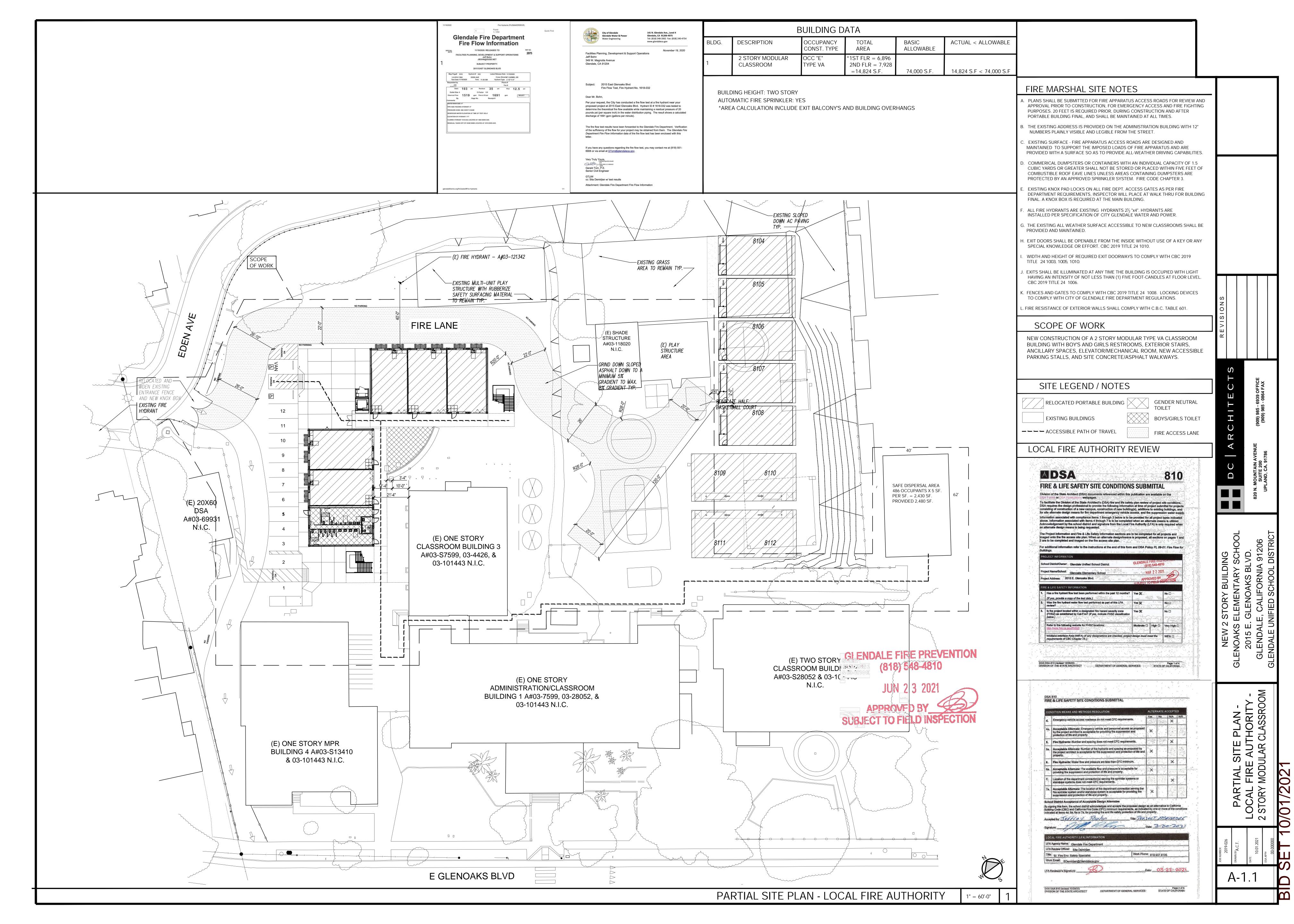
OVERALL ARIEL SITE PLAN

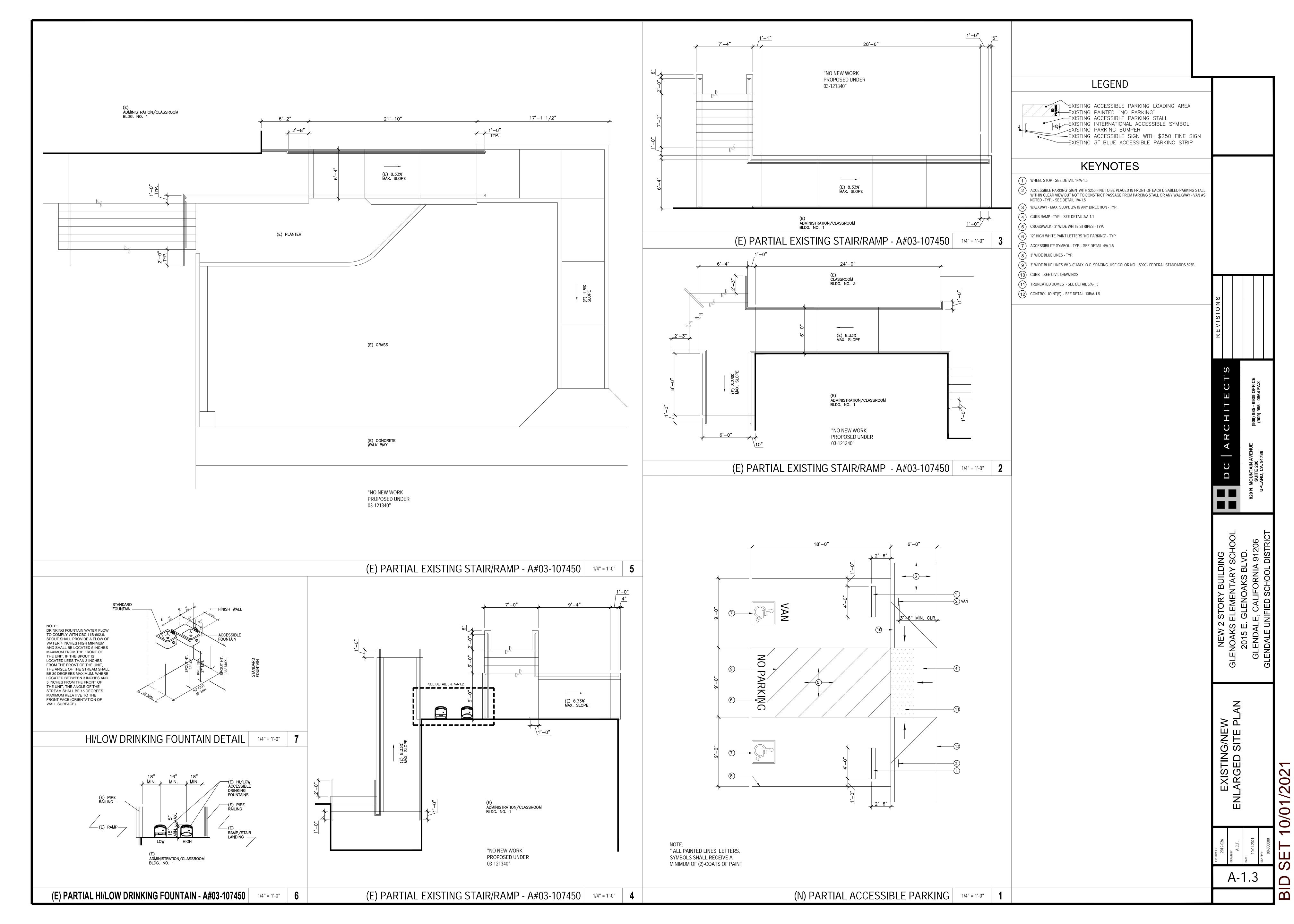
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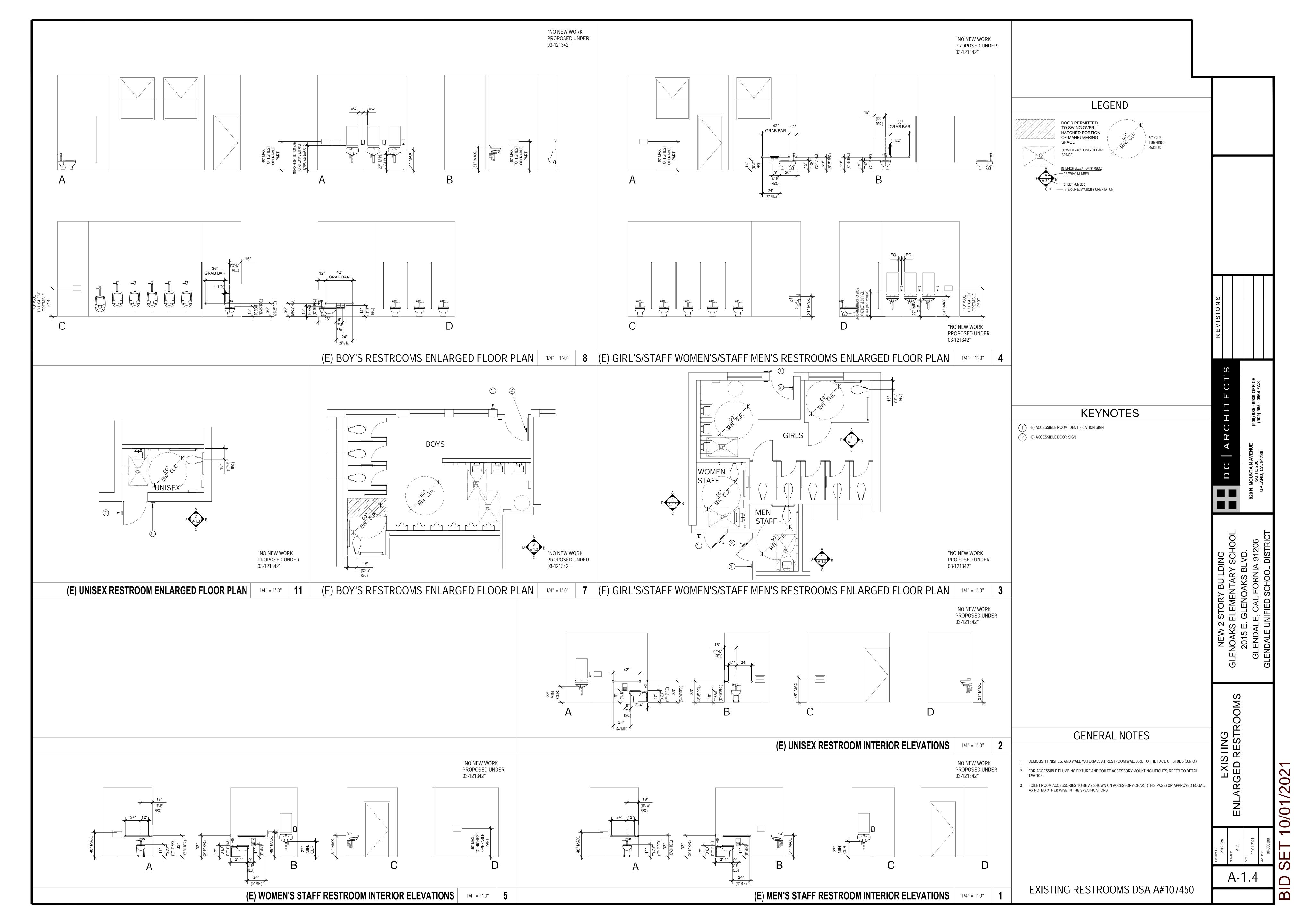
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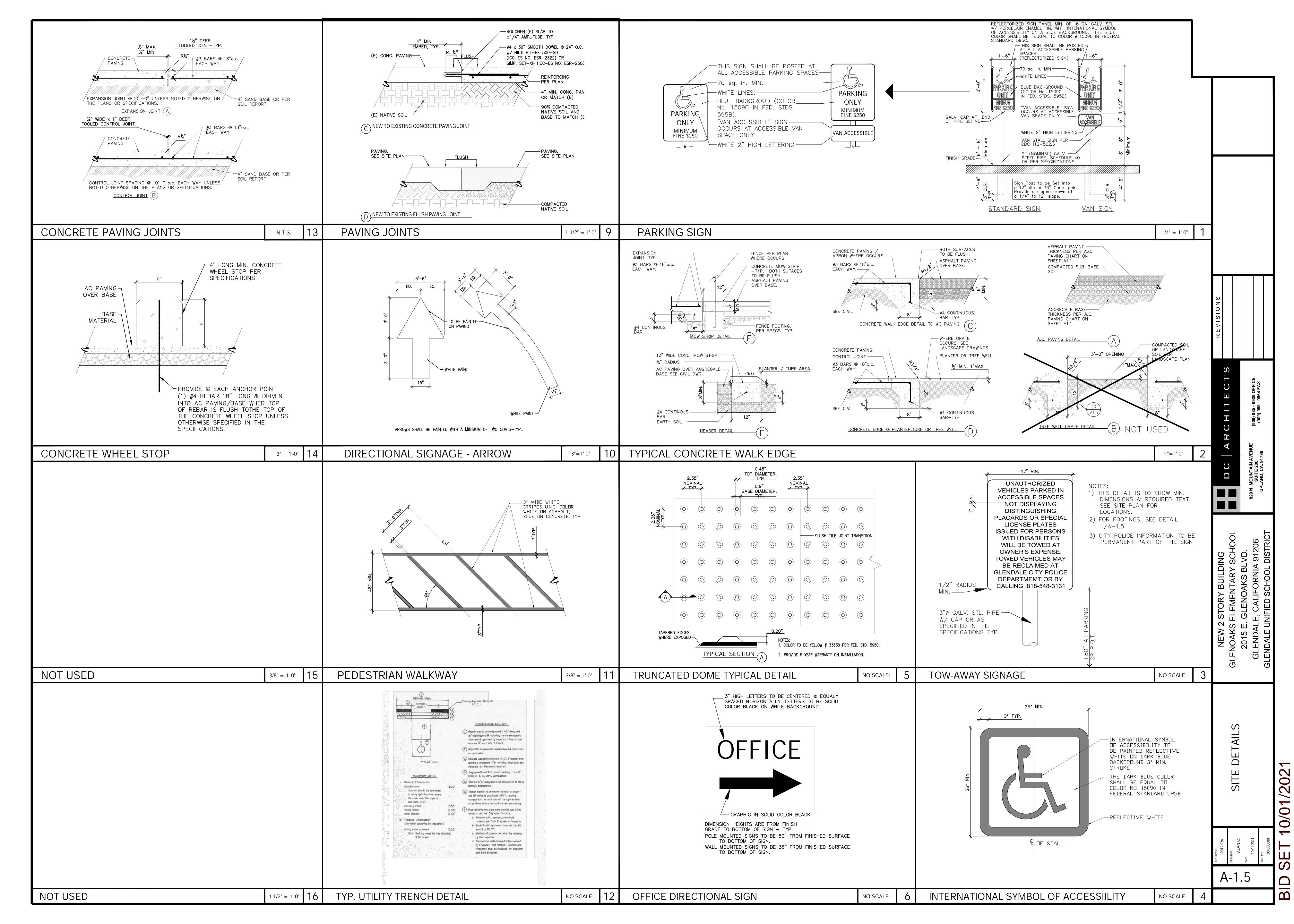


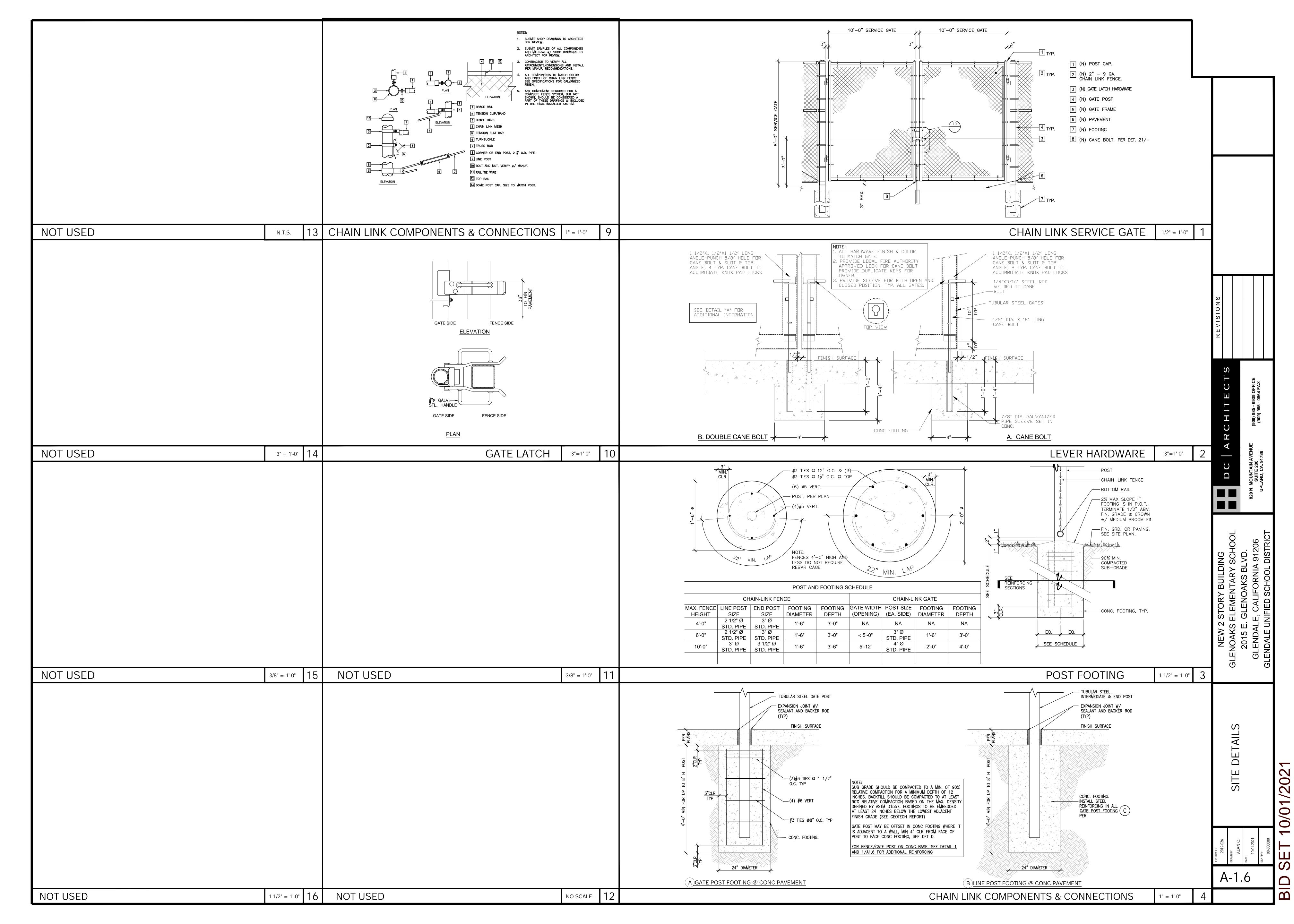


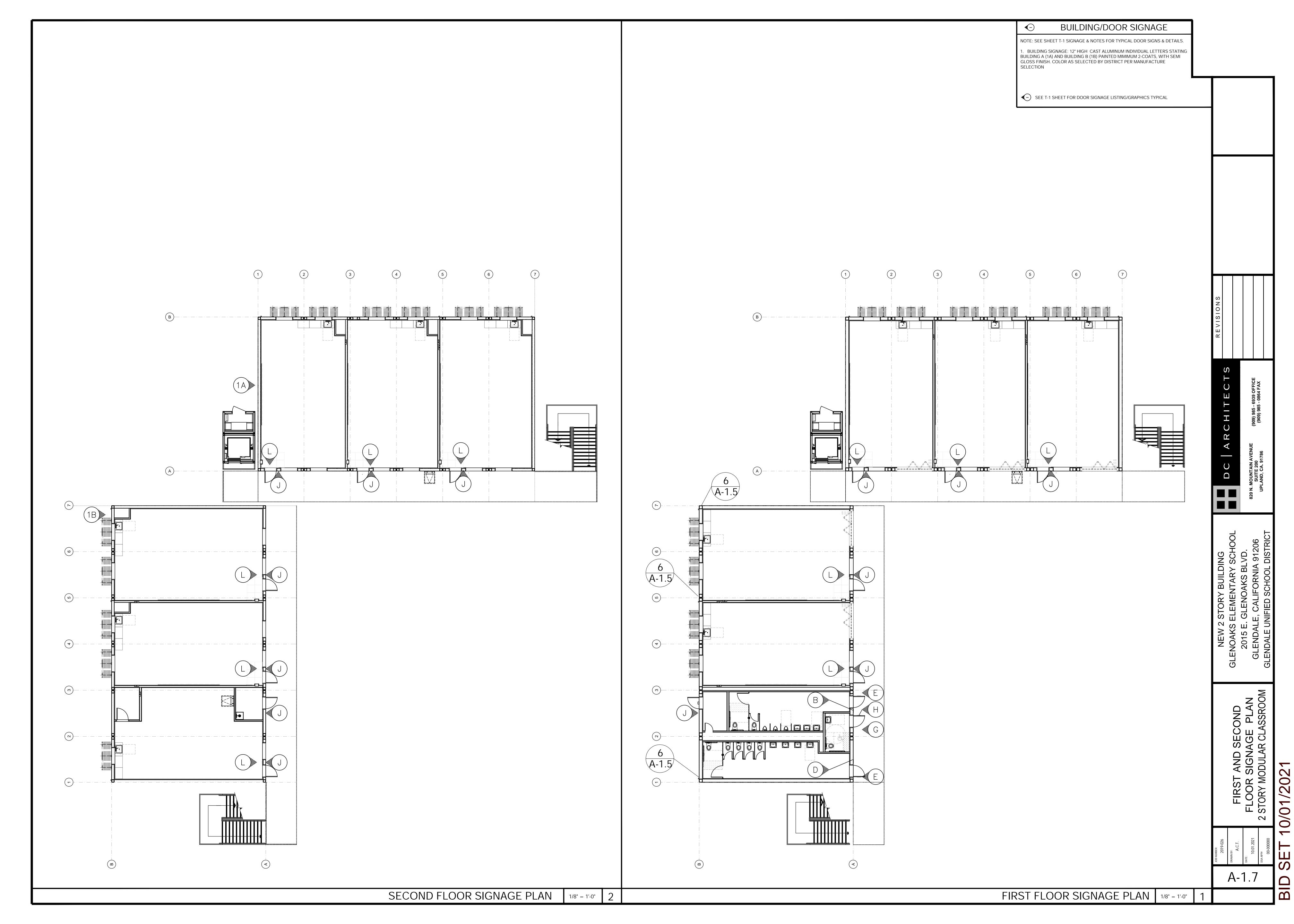


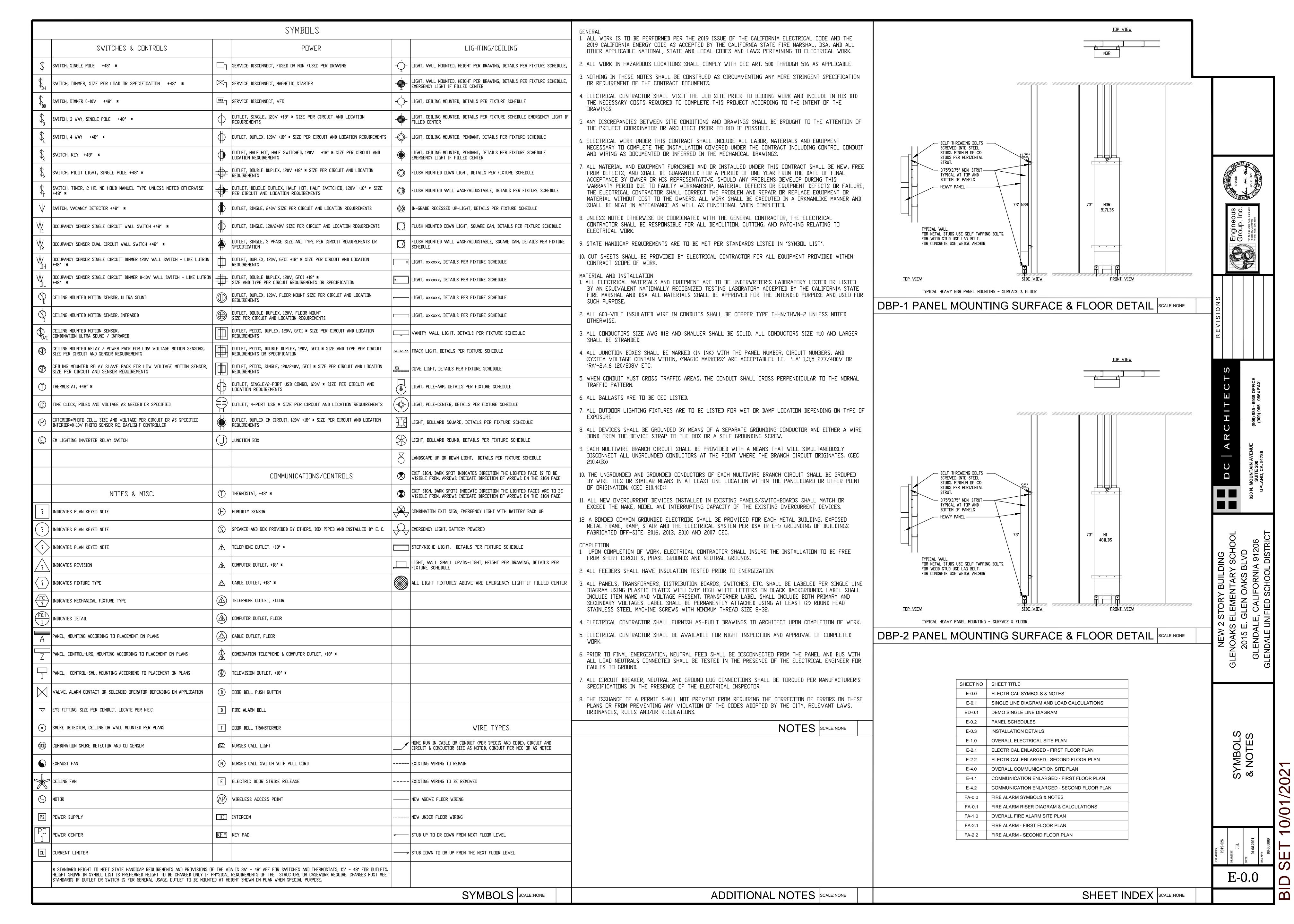


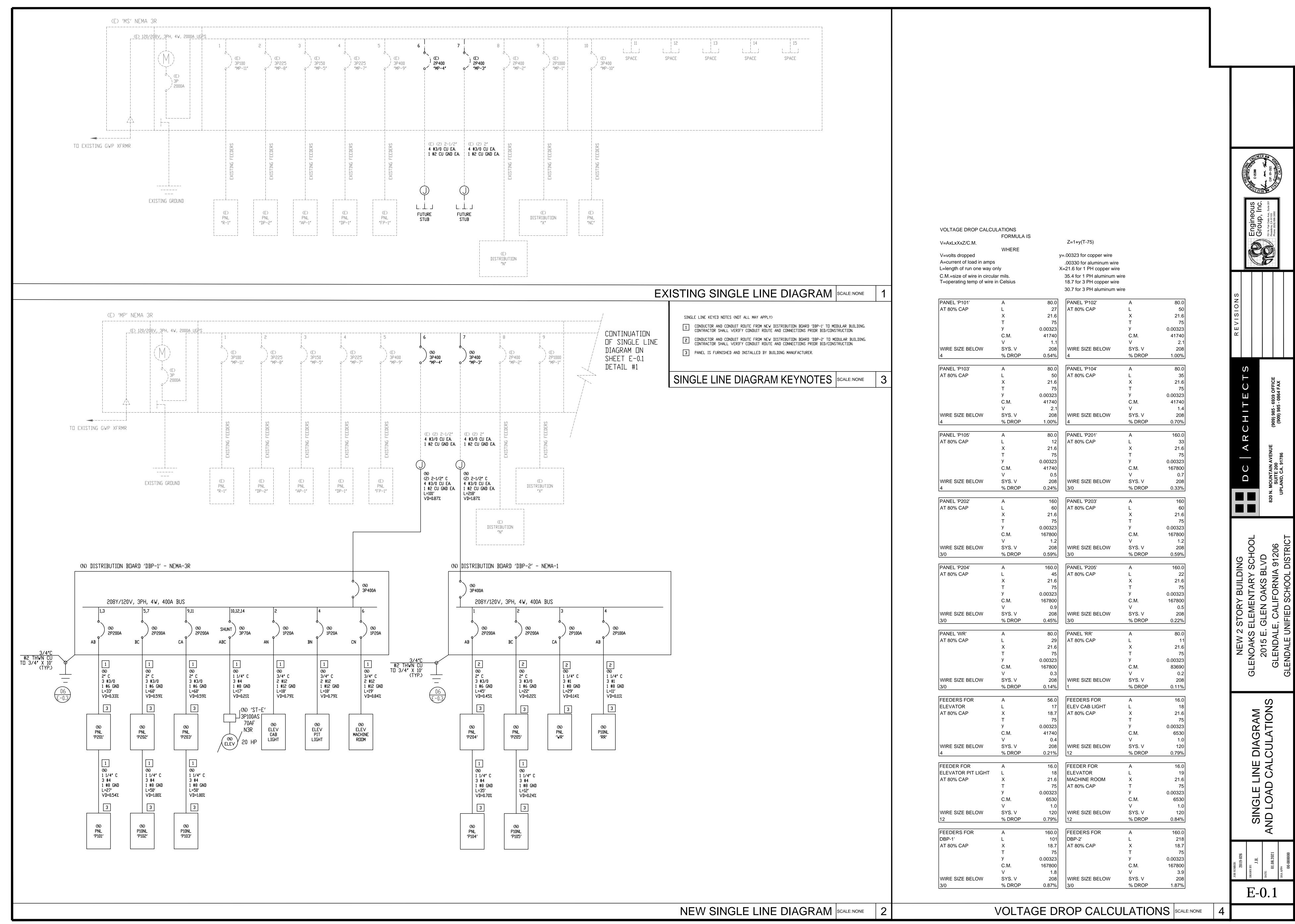




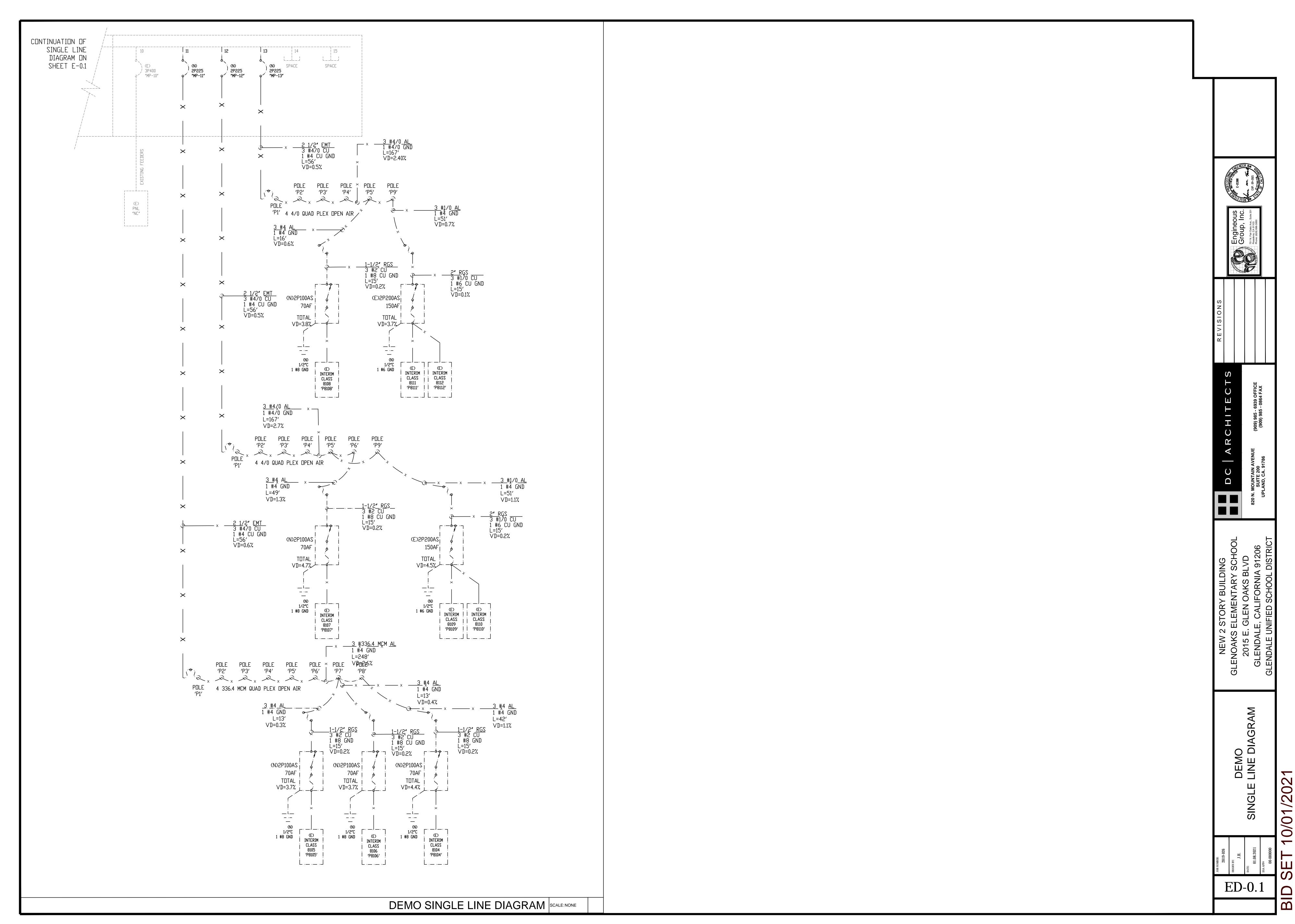




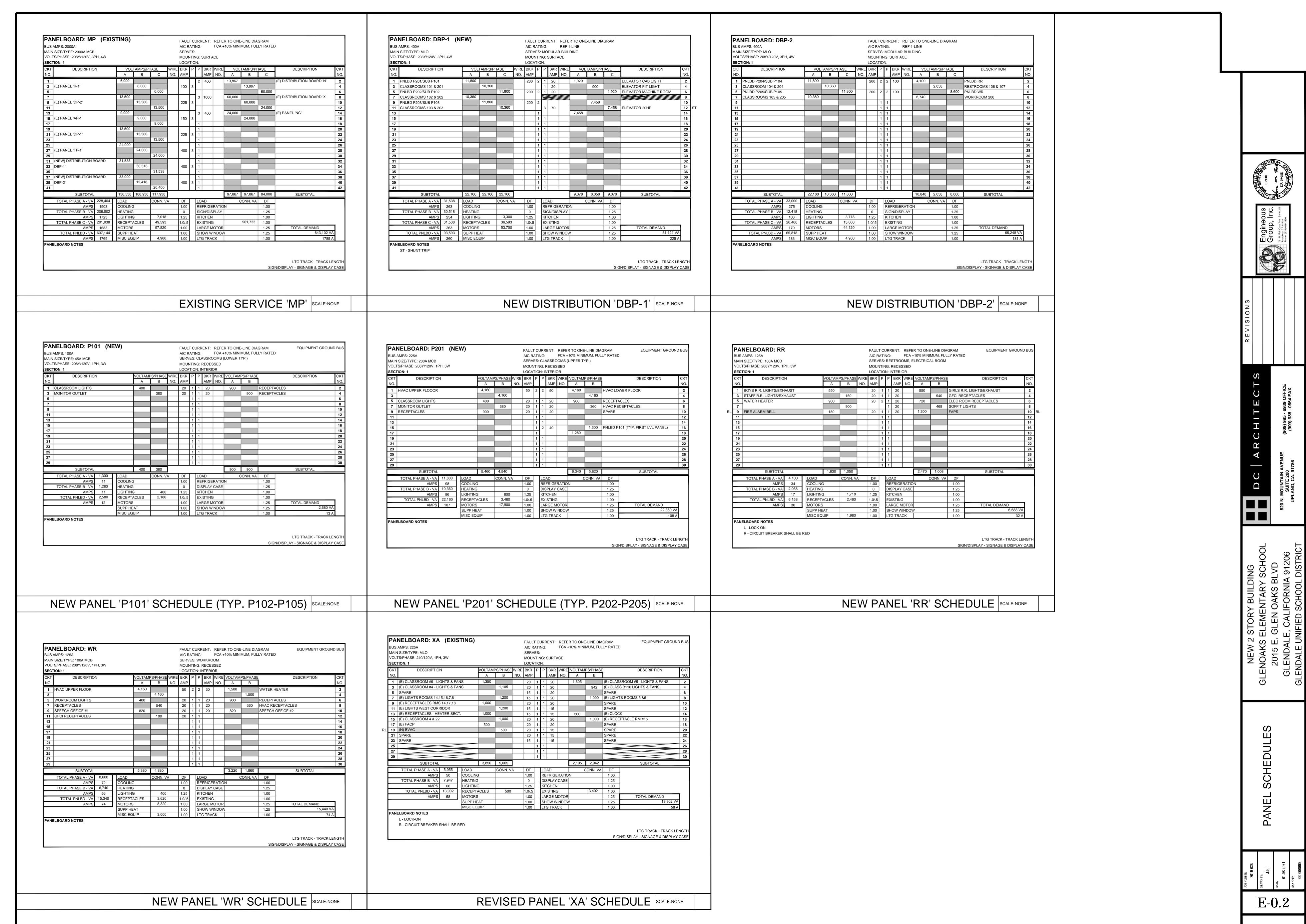




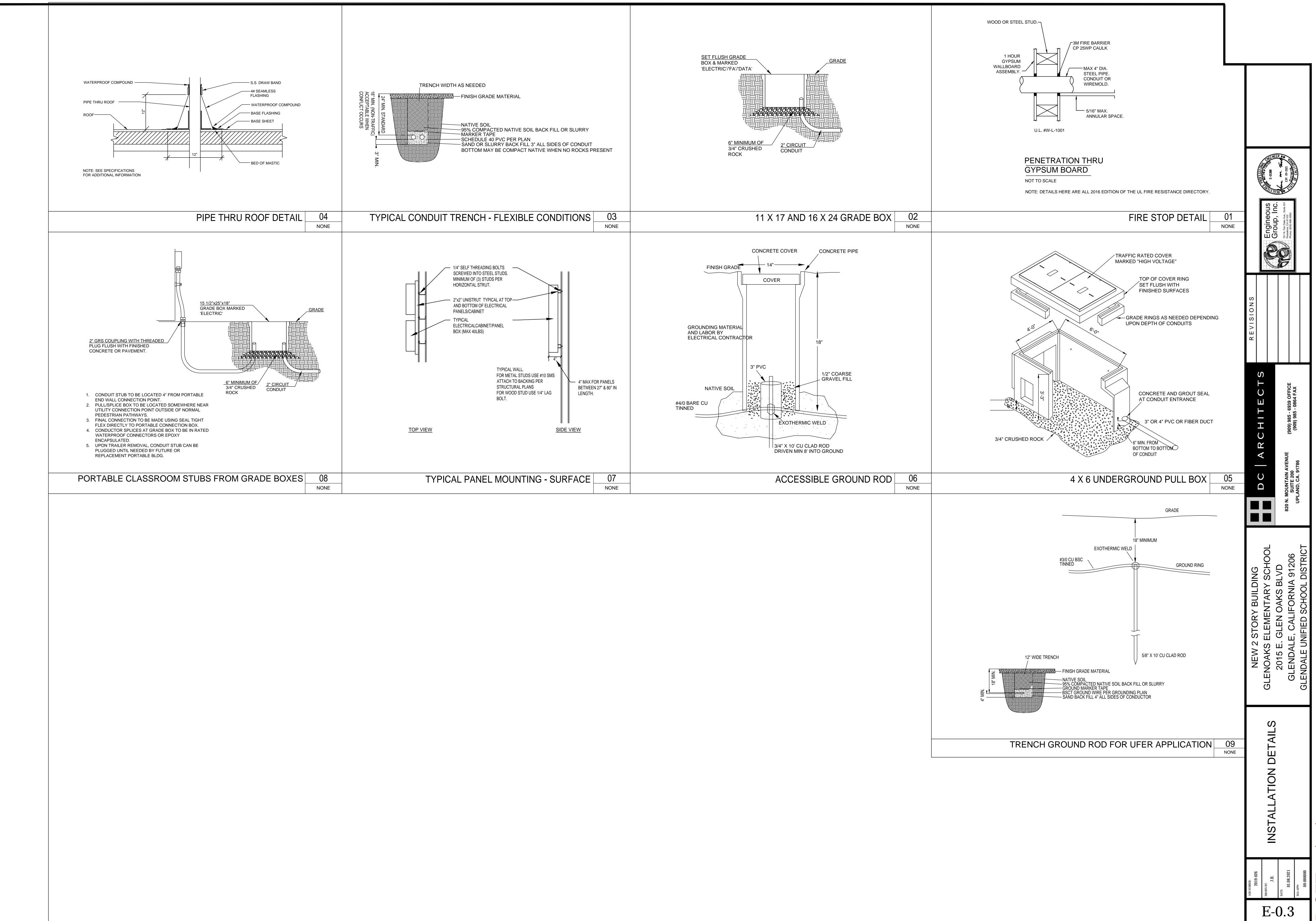
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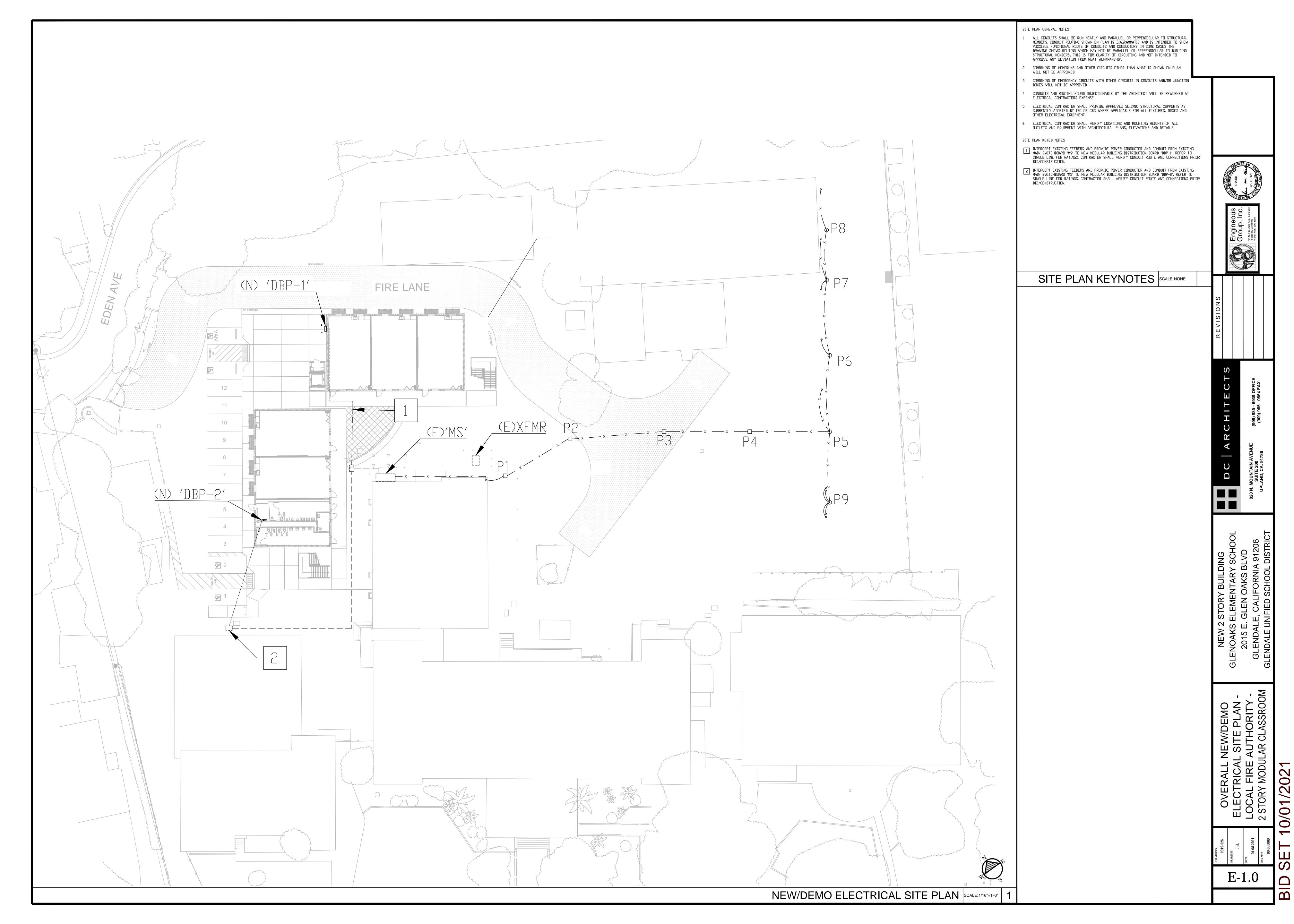


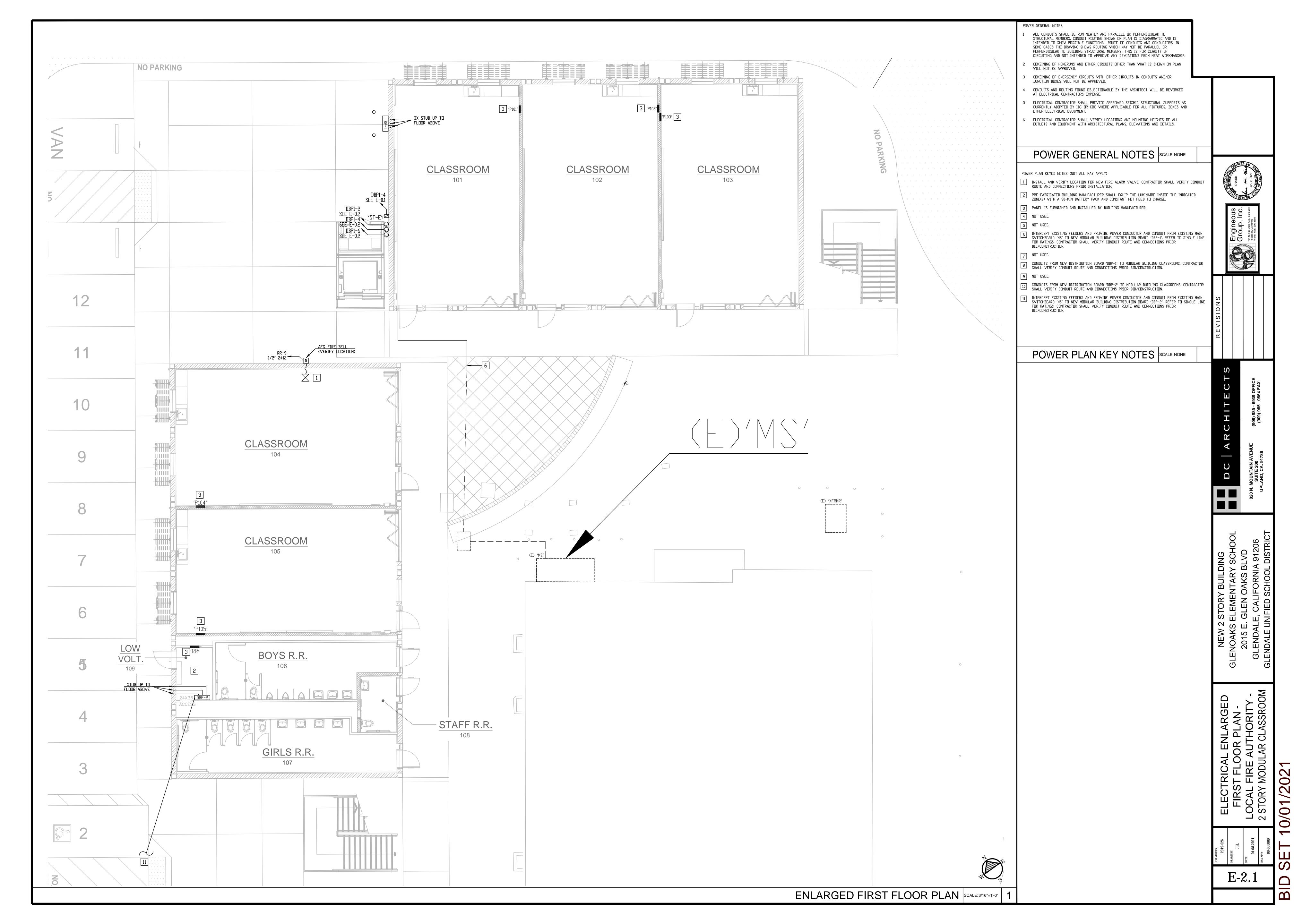
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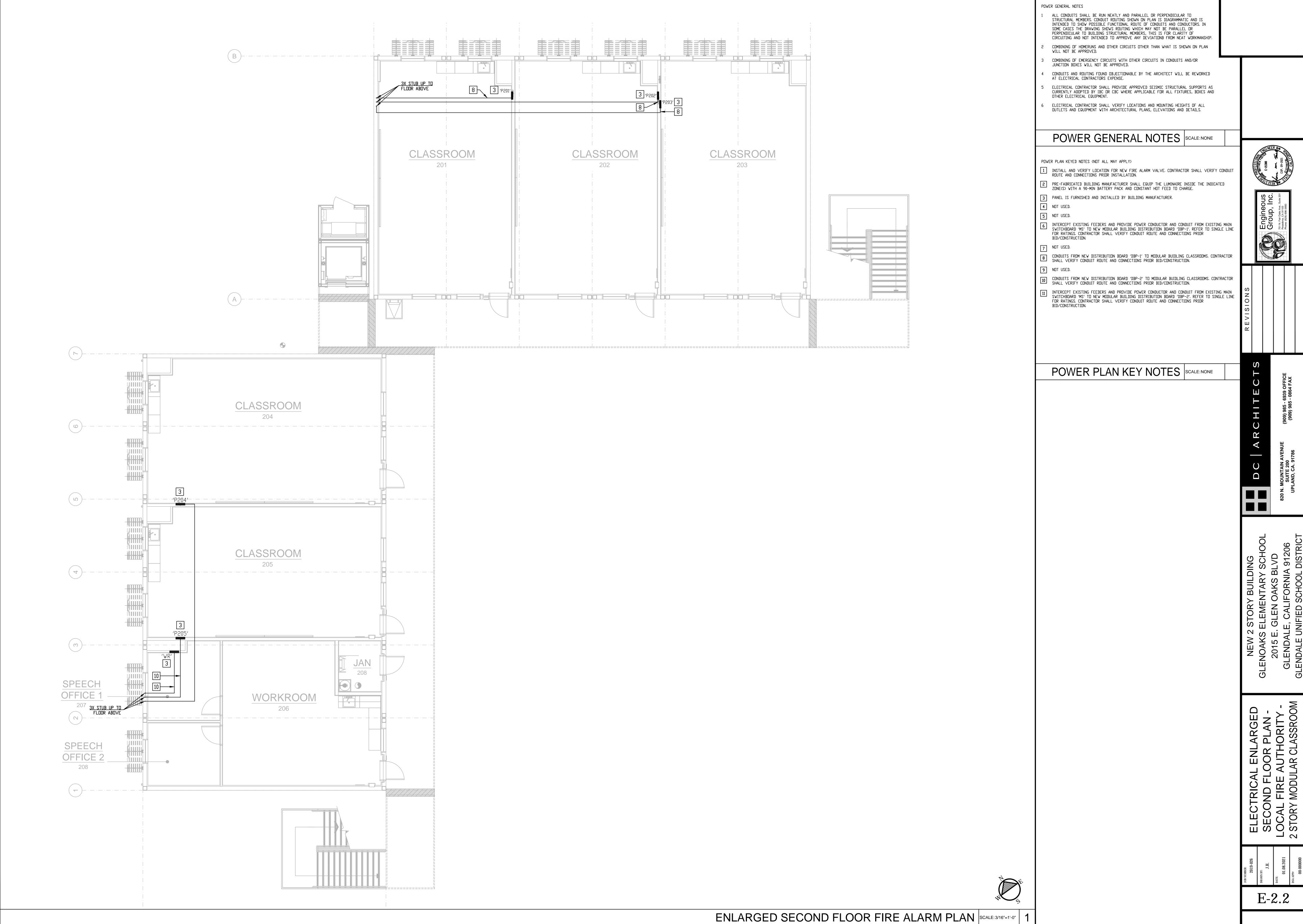


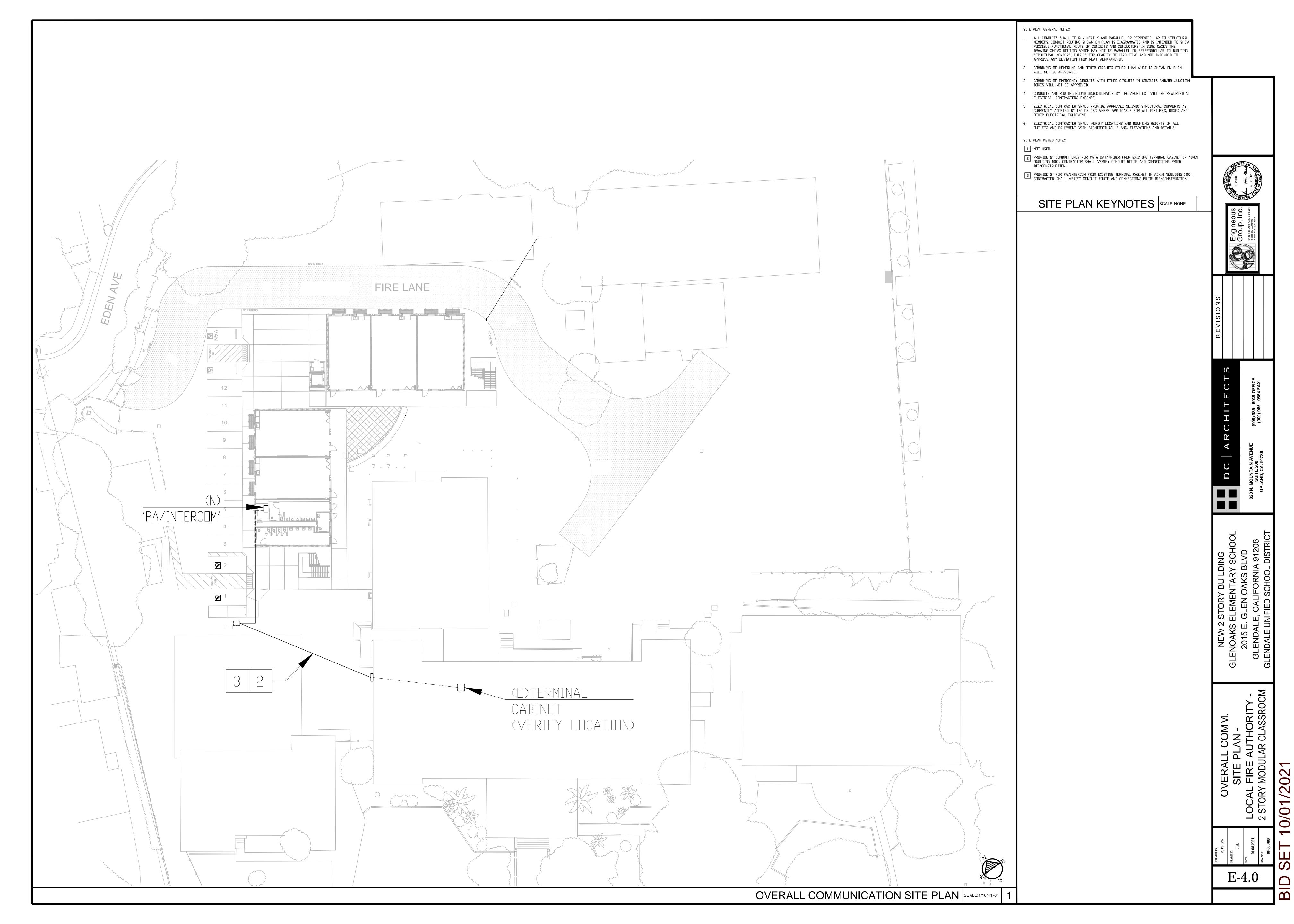
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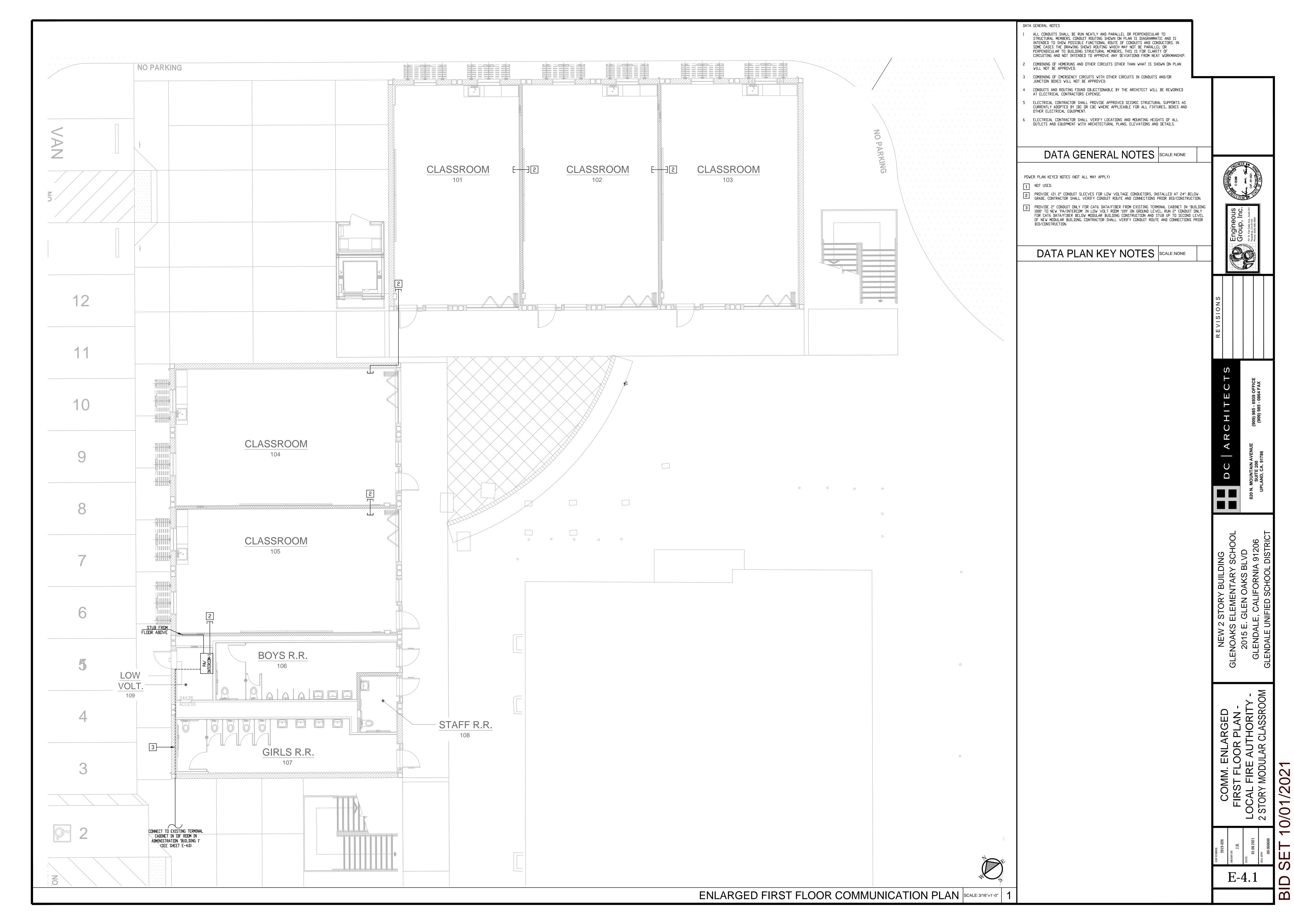


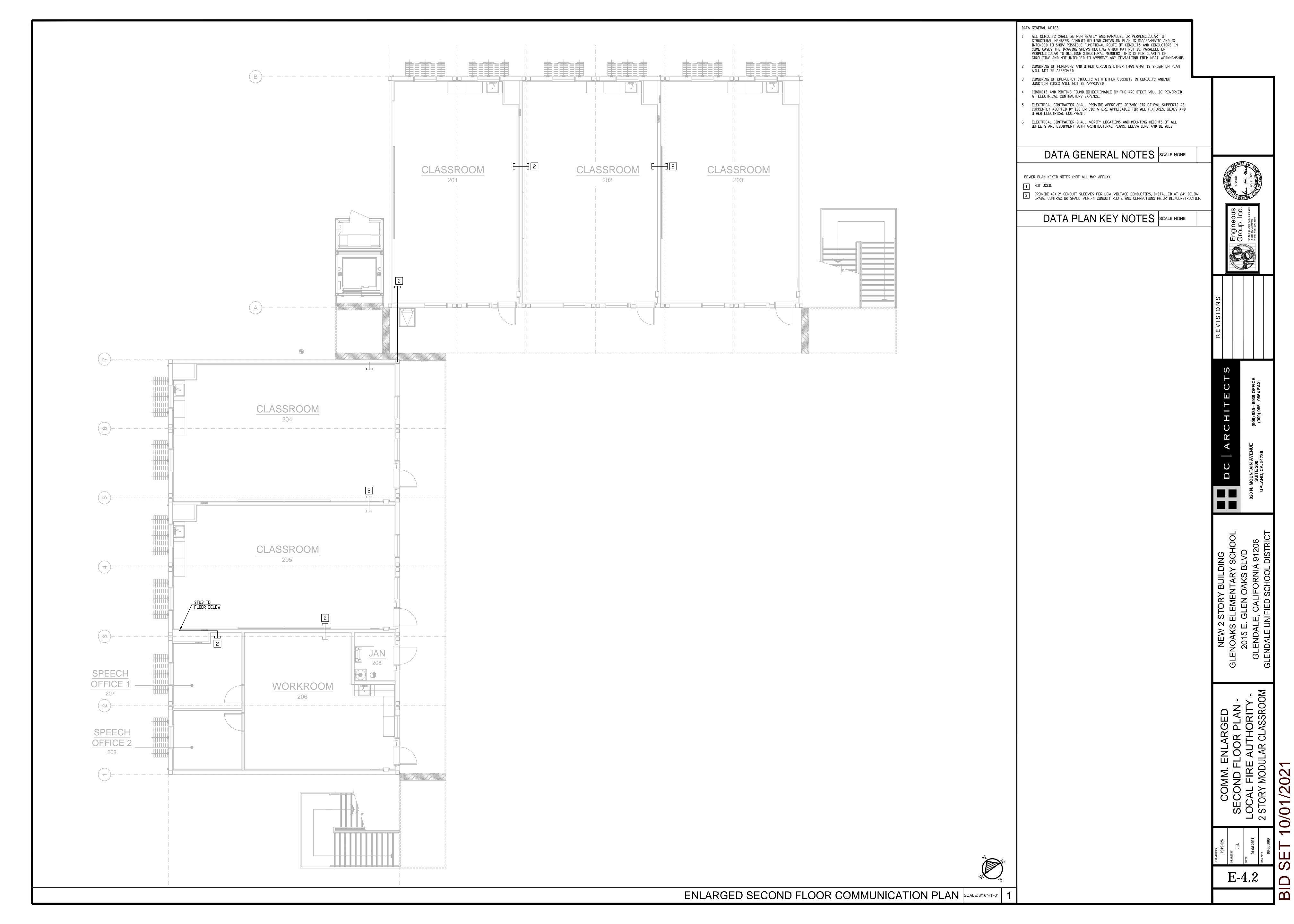












4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.

DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL

ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.

10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.

11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

2.16 APPLICABLE CODES: ENSURE THE CURRENT CODES ARE LISTED ON THE PLANS.

12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE

14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET

ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.

16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.

SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

26. ALL WIRING OF INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION (THE FIRE ALARM CONTROL PANEL IS TO SUPERVISE THE ANNUNCIATOR PANEL, ALL CIRCUITS

28. A. EXCEPTION: ADDRESSABLE SYSTEMS, MAPNET CONDUCTORS WIRED CLASS "B" MAY BE T-TAPPED.

30. A. ALL CONDUIT SIZES SHOWN AND INDICATED ON DRAWING ARE MINIMUMS, CONTRACTOR TO ADJUST SIZES FOR FIELD CONDITIONS (I.E. NUMBER OF BENDS, ETC.) BUT SHALL NOT BE SMALLER THAN 3/4".

CENTRAL STATION.

35. CABINET TERMINALS SHALL BE NUMBERED AND CODED, FLEXIBLE CONNECTORS SHALL BE USED FOR DEVICES MOUNTED IN SUSPENDED PANELS.

AUDIBLE DEVICES(S) TO BE AT LEASE 15 DBA ABOVE THE AMBIENT SOUND LEVELS, BUT NOT LESS THAN THE 75 DBA AT 10' OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCE. AUDIBLE DEVICES SHALL SOUND THE

38. CONDUIT AND JUNCTION BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.

BOTTOM OF THE WALL MOUNTED STROBE EXACTLY 80" ABOVE THE FLOOR THE TOP OF THE STROBE IS AT LEAST 6" BELOW THE CETTING PLACE TO MAKE SURE THE TOP OF THE STROBE IS AT LEAST 6" BELOW THE CEILING, PLACE THE TOP OF THE STROBE BELOW THE CEILING IF THE CEILING IS TOO LOW, AND MAKE SURE IT PROTRUDES LESS THAN 4" IF IN A WALKWAY, CORRIDOR OR AISLE, NOTE THAT THESE MOUNTING REQUIREMENTS ALSO APPLY TO COMBINATION HORN/STROBE OR SPEAKER/STROBE APPLIANCES THAT ARE WALL MOUNTED (NFPA 72, CH.18).

41. STROBES SHALL BE VISIBLE IN ALL LOCATIONS THROUGHOUT THE BUILDING PER NFPA 72, CHAPTER 18, SECTION

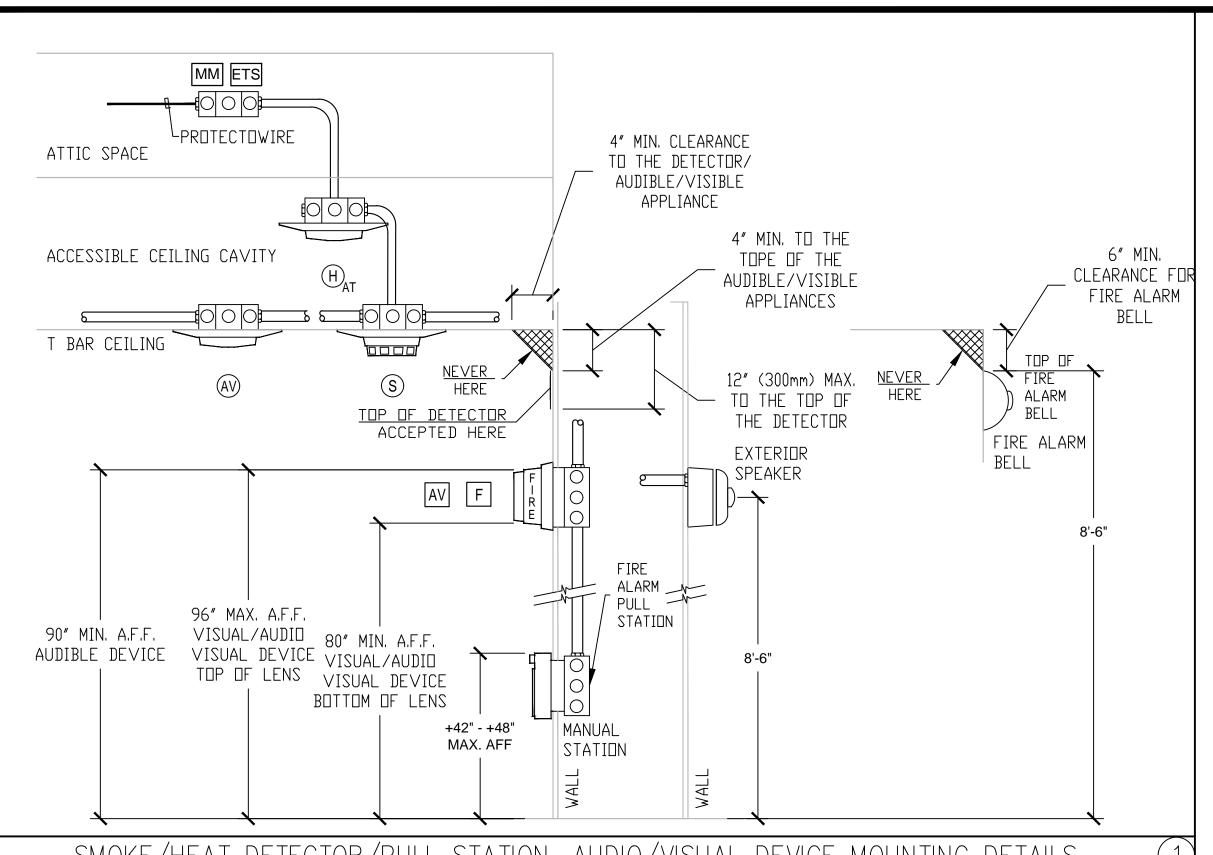
DEVICES SHALL NOT EXCEED 2 FLASHER PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY

43. PROVIDE 24 HOUR TELEPHONE NUMBER OF CENTRAL STATION NEAR ANNUNCIATOR AND FIRE ALARM CONTROL

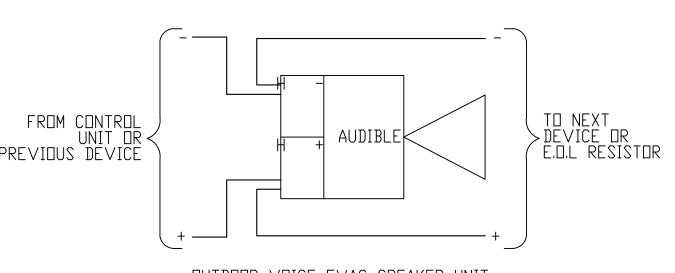
44. ON SMOKE DETECTORS CONTRACTOR SHALL MAINTAIN 36" DISTANCE FROM SUPPLY AIR DIFFUSER.

	WIRING SCHEDULE								
DESIGN.	CIRCUIT TYPE	DESCRIPTION	MODEL						
А	HORN NOTIFICATION LOOP	2 TWISTED PAIR, 16 AWG FPLR	WESTPENN CABLE FPLP 2 PAIR #16 TWISTED, CSFM #7161-0859:0101						
F	SLC INTELLIGENT LOOP NETWORK COMM	1 TWISTED PAIR, 18 AWG FPLR (FA2 = 2 SET OF CABLES)	WESTPENN CABLE FPLP 2 PAIR #16 TWISTED, CSFM #7161-0859:0101						
V	HORN/STROBE SIGNAL OUTPUT CIRCUIT CABLE	(2) SETS OF 2#14 AWG (RED/BLACK)	WESTPENN CABLE FPLP 2#14 DR 2#12, CSFM #7161-0859:0101						
NOTEC									

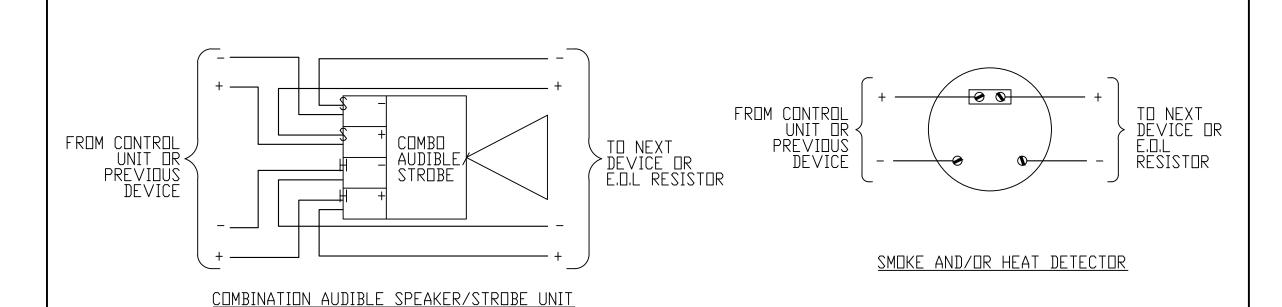
ALL CABLE SHALL BE INSTALLED PER NEC/CEC PA VOICE CIRCUIT. 2. ALL WIRING SHALL CONFORM TO NEC 760 PART A & C FOR A POWER-LIMITED SUPPLY. 3. ALL WIRING IN WET LOCATIONS SHALL BE THWN, UL LISTED FOR OUTDOOR USE OR EQUAL 4. ALL FIRE ALARM CABLING SHALL BE RUN IN MINIMUM 3/4" CONDUIT RACEWAY UNLESS OTHERWISE NOTED.



SMOKE/HEAT DETECTOR/PULL STATION, AUDIO/VISUAL DEVICE MOUNTING DETAILS



DUTDOOR VOICE EVAC SPEAKER UNIT



TYPICAL DEVICE WIRING

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

Revised 02/14/2020

1. All permanent equipment and components

such as electricity, gas or water.

?. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services

3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foor, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements

<u>Piping, Ductwork, and Electrical Distribution System Bracing Note</u>

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3. as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP \square MD \square PP \square E \boxtimes - \square ption 1: Detailed on the approved drawings with project specific notes and details.

MP _MD _PP _ - Option 3 : Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009),

including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved

MP □MD □PP □E □ - Option 2 : Shall comply with the applicable OSHPD Pre-Approval (OPM#) #_____.

drawings with project specific notes and details. The details shall account for applicable Seismic Hazard Level ____ and Connection Level ____ for the project and conditions

MEP COMPONENT ANCHORAGE NOTE

SYMBOL DESCRIPTION MANUFACTURER MODEL NUMBER CSFM NUMBER SMOKE DETECTORS/PHOTOELECTRIC SMOKE DETECTORS NOTIFIER FSP-851 7272-0028:0206 STANDARD SENSOR BASE NOTIFIER B210LP 7300-1653:0109 HEAT DETECTORS NOTIFIER FST-851 7270-0028:0196 NOTIFIER STANDARD SENSOR BASE B210LP 7300-1653:0109 NOTIFIER HEAT DETECTORS (ATTIC SPACE) FST-851 7270-0028:0196 STANDARD SENSOR BASE NOTIFIER B210LP 7300-1653:0109 |INDOOR SPEAKER-STROBE (15cd, 30cd, 75cd, SPSCWL(A)(-E)(-F), NOTIFIER 7320-1653:0505 SPSCRL(A)(-E)(-F),110cd) (CEILING MOUNTED) DUTDOOR SPEAKER (1/4W, 1/2W, 1W, 2W) SPWK(A) 🛮 R SPRK(A) 7320-1653:0201 FIRE ALARM BELL SYSTEM SENSOR V22\M22 7135-1653:0217 NEW INTELLIGENT/ADDRESSABLE FLOW DETECTOR NOTIFIER FMM-1 7300-0028:0219 MONITOR MODULE WITH FLASHSCAN EXISTING INTELLIGENT/ADDRESSABLE FLOW DETECTOR NOTIFIER FMM-1 7300-0028:0219 |MONITOR MODULE WITH FLASHSCAN EMERGENCY VOICE EVACUATION NOTIFIER NFC-50DA(E) 7300-0028:0266 FCPS-24S6, FIRE ALARM REMOTE POWER SUPPLY NOTIFIER 7315-0028:0225 FCPS-24S8

NEW FIRE ALARM SYMBOLS LEGEND

SEQUENCE OF OPERATION								
	PULL STATION	GROUND FAULT	FA SYSTEM LOW BATTERY	CIRCUIT SHORT	DCDA TAMPER SWITCH			
ANNUNCIATE AT FIRE CONTROL PANEL (SUPERVISION)	NΠ	NΠ	NΠ	N□	NΠ	NΠ	ND	YES
ANNUNCIATE AT FIRE CONTROL PANEL (TROUBLE)	YES	NΠ	NΠ	NΠ	YES	YES	YES	NΠ
SUPERVISORY SIGNAL	NΠ	NΠ	N□	N□	NΠ	ND	ND	YES
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM SIGNAL)	NΠ	YES	YES	YES	NΠ	NΠ	ND	NΠ
SOUND CONTROL PANEL TROUBLE BUZZER	YES	ON WIRING FAULT	ON WIRING FAULT	ON WIRING FAULT	YES	YES	YES	ON WIRING FAULT
ACTIVATE AUDIBLE ALARM SIGNALS	NΠ	YES	YES	YES	NΠ	ND	ND	NΠ
ACTIVATE VISUAL ALARM SIGNALS	NΠ	YES	YES	YES	NΠ	ND	ND	NΠ
CENTRAL STATION SIGNALS (UNTIL RESET)	YES	YES	YES	YES	ND	ND	ND	NΠ

NOTIFIER

AFP1010

7165-0028:0141

EXISTING FIRE ALARM CONTROL PANEL (A#107450)

SYMBOL NOTES

- WHEN SHOWN ADJACENT TO OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO REMAIN. INTERCEPT, REROUTE, AND EXTEND, IF NECESSARY.
- WHEN SHOWN ADJACENT TO OUTLET SYMBOL OR LIGHT FIXTURE INDICATES EXISTING TO BE REMOVED.

REQUIRED FOR A COMPLETE AND OPERABLE FIRE ALARM (FA) SYSTEM

- WHEN SHOWN IN CONDUIT RUN INDICATES EXISTING CONDUIT RUN TO BE REWIRED, PULL OUT EXISTING WIRES AND INSTALL NEW WIRES, QUANTITY AS INDICATED BY HASH MARKS
- WHEN SHOWN ADJACENT TO LIGHT FIXTURE OR DUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE ABANDONED, REMOVE DEVICE AND INSTALL BLANK PLATE AND PULL WIRES FROM CONDUIT AS REQUIRED.
- WHEN SHOWN ADJACENT TO FA SYSTEM DEVICE INDICATES EXISTING SHALL BE DISCONNECTED, REMOVED, CLEANED, AND RE-INSTALLED FURNISH AND INSTALL ALL MATERIAL NECESSARY TO MAKE ALL CONNECTION
- WHEN SHOWN ADJACENT TO FA SYSTEM DEVICE INDICATES EXISTING SHALL BE DISCONNECTED, AND REMOVED FURNISH AND INSTALL NEW DEVICE AT PRE-EXISTING LOCATION WITH SPECIFICATIONS NOTED IN FA LEGENDS ON SHEET E-0.0. FURNISH AND INSTALL ALL MATERIAL NECESSARY TO MAKE ALL CONNECTION REQUIRED FOR A COMPLETE AND OPERABLE FIRE ALARM (FA) SYSTEM.
- WHEN SHOWN ADJACENT TO EQUIPMENT, DEVICES OR LIGHTING FIXTURE, INDICATES EXISTING EQUIPMENT, DEVICE OR LIGHTING FIXTURE AND ALL ASSOCIATED WIRING TO BE RELOCATED, U.O.N.
- WHEN SHOWN NEXT TO DUPLEX DUTLET INDICATE REMOVE EXISTING DEVICE AND COVER PLATE, FURNISH AND INSTALL NEW DUPLEX DUTLET, EXTENSION RING AND STAINLESS STEEL COVER PLATE AND MAKE ALL CONNECTION REQUIRED TO RE-ESTABLISH CIRCUITRY AS BEFORE.
- INDICATE NEW LOCATION OF RELOCATED EQUIPMENT, DEVICE, LIGHTING FIXTURE OR FA SYSTEM DEVICE.

CODES AND STANDARDS

CODES AND PERMITS: ALL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM TO LOCAL ELECTRICAL, MECHANICAL AND OTHER APPLICABLE CODES, CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS, COPIES OF ALL PERMITS AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT, CODES INCLUDE BUT NOT LIMITED TO:

> TITLE 24, PART 2, CCR (2019 CALIFORNIA BUILDING CODE W/AMENDMENTS) TITLE 24, PART 3, CCR (2019 CALIFORNIA ELECTRICAL CODE W/AMENDMENTS) TITLE 24, PART 4, CCR (2019 CALIFORNIA MECHANICAL CODE W/AMENDMENTS) TITLE 24, PART 5, CCR (2019 CALIFORNIA PLUMBING CODE W/AMENDMENTS) TITLE 24, PART 9, CCR (2019 CALIFORNIA FIRE CODE W/AMENDMENTS) 2019 CALIFORNIA GREEN BUILDINGS STANDARDS CODES) 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR) NFPA 13 - 2016 NFPA 72 - 2016 REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS 2019 CBC, CHAPTER 35 2019 CFC, CHAPTER 45 NFPA STANDARDS AND GUIDES

NFPA 72 NATIONAL FIRE ALARM CODES (CALIFORNIA AMENDED, 2016 EDITION)

NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES".

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UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.

WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.

9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.

13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.

21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.

22. 120 VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING. 23. ALL OPENINGS IN RATED ASSEMBLIES SHALL BE REPAIRED PER UFC, NEC, UBC AND STANDARD BUILDING CO ON EFFECT AT THE TIME OF APPROVAL. THE SYSTEM SHALL CONFORM TITLES 19 AND 24 AS APPLICABLE THIS PROJECT (CBC PART 2, CH. 7, TITLE 24).

ALL BACK BOXES SHALL BE AS RECOMMENCED BY MANUFACTURER, CONTRACTOR SHALL LOCATE JUNCTION BOXES AS REQUIRED AND PER CEC CODES.

25. ALL PANELS SHALL BE MOUNTED WITH CLEARANCES FOR OBSERVATION AND TESTING, AND ALL FIRE ALARM JUNCTION BOXES SHALL BE MARKED FOR IDENTIFICATION.

27. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND OUT. POINT COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED.

29. ALL FIRE ALARM WIRING SHALL BE RUN IN MINIMUM 3/4" CONDUIT.

31. ALL FIRE ALARM SYSTEM WIRING TERMINATIONS IN MAIN PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS.

32. ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS. SEE INSTALLATION MANUALS FOR FIELD WIRING SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

33. (2) PRIMARY PHONE LINE SHALL BE DEDICATED FOR THE FIRE ALARM SYSTEM TO COMMUNICATE WITH U.L. LISTED

34. WIRING COLOR CODE SHALL BE CONSISTENT THROUGHOUT THE SYSTEM AND SHALL ALLOW FOR EASY IDENTIFICATION OF INITIATING, INDICATING AND AUXILIARY CIRCUITS.

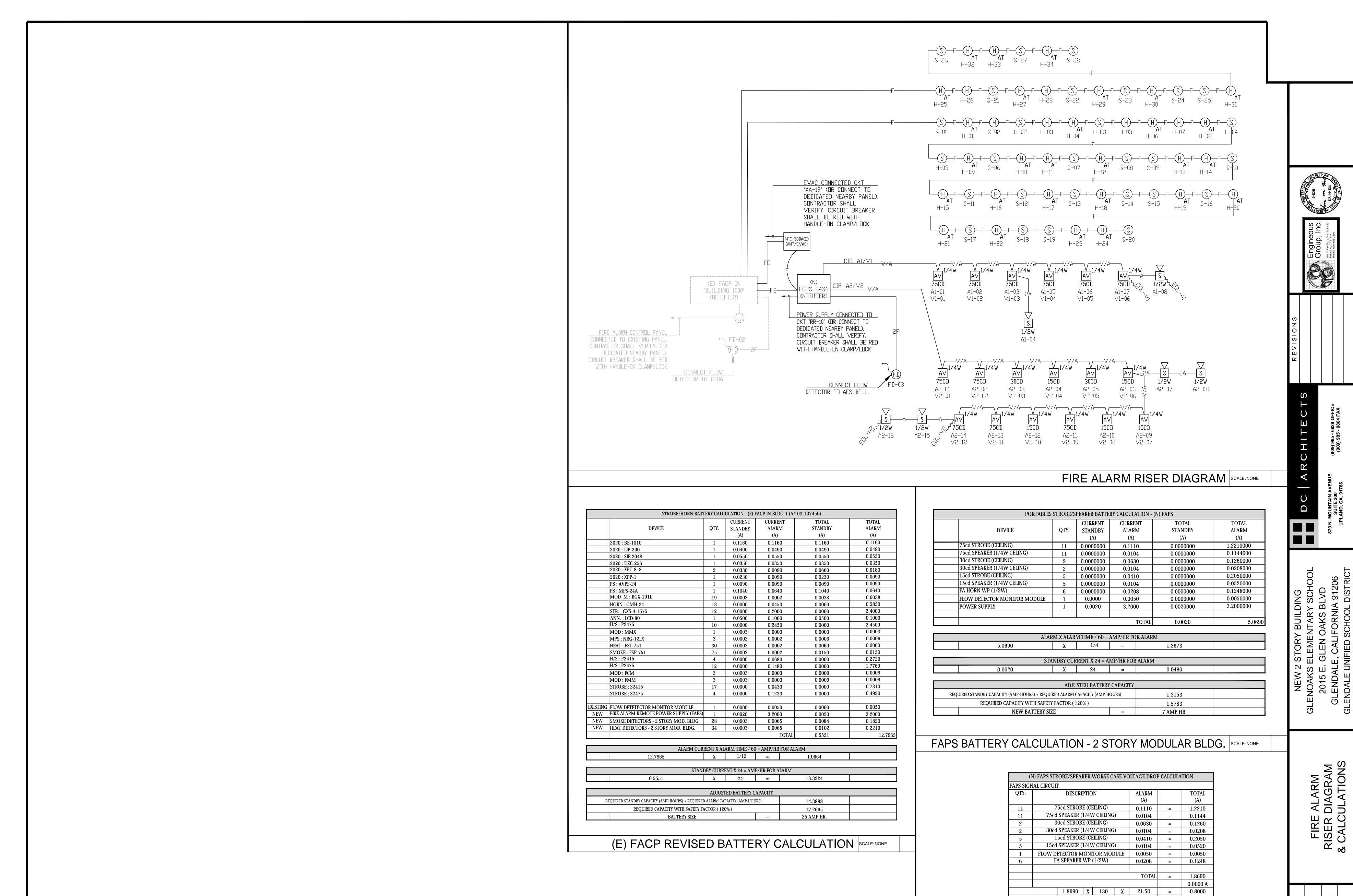
36. THE FIRE DEPARTMENT WILL TEST AND VERIFY ADEQUATE AUDIBILITY BEING PROVIDED THROUGHOUT, PARTICULARLY IN OPEN WORK AREAS AND IN TESTING AREAS.

TEMPORAL FIRE ALARM SIGNAL

39. ALL CONDUIT MOUNTING BOXES, AND PANELS SHALL BE HUNG AND FASTENED WITH FITTINGS TO ENSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.

_				
	DESIGN.	CIRCUIT TYPE	MODEL	
	Α	HORN NOTIFICATION LOOP	2 TWISTED PAIR, 16 AWG FPLR	WESTPENN CABLE FPLP 2 PAIR #16 TWISTED, CSFM #7161-0859:0101
	F	SLC INTELLIGENT LOOP NETWORK COMM	1 TWISTED PAIR, 18 AWG FPLR (FA2 = 2 SET OF CABLES)	WESTPENN CABLE FPLP 2 PAIR #16 TWISTED, CSFM #7161-0859:0101
	V	HORN/STROBE SIGNAL OUTPUT CIRCUIT CABLE	(2) SETS OF 2#14 AWG (RED/BLACK)	WESTPENN CABLE FPLP 2#14 DR 2#12, CSFM #7161-0859:0101

SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO CBC 2019 AND NFPA 13 2019 EDITION



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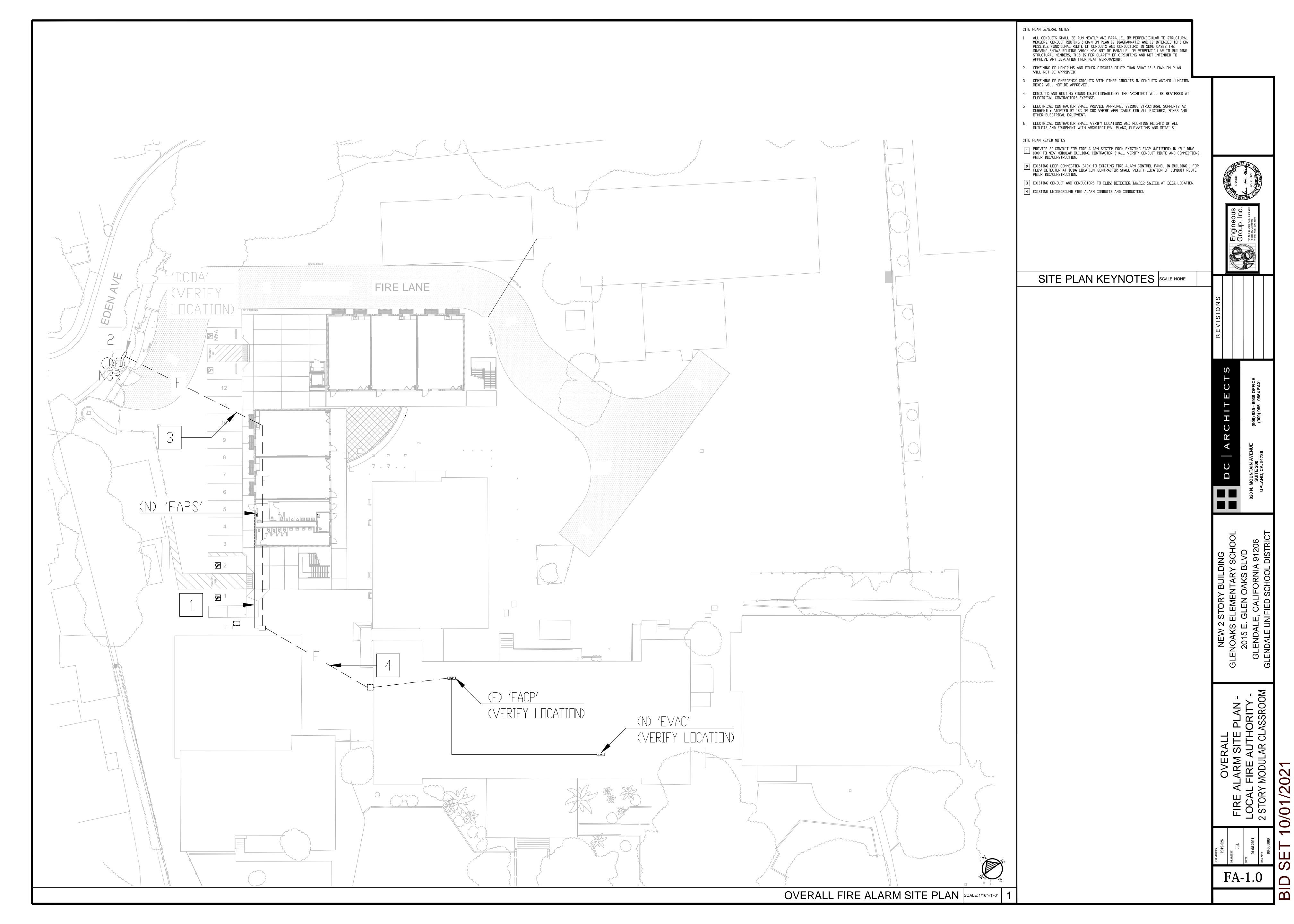
FA-0.1

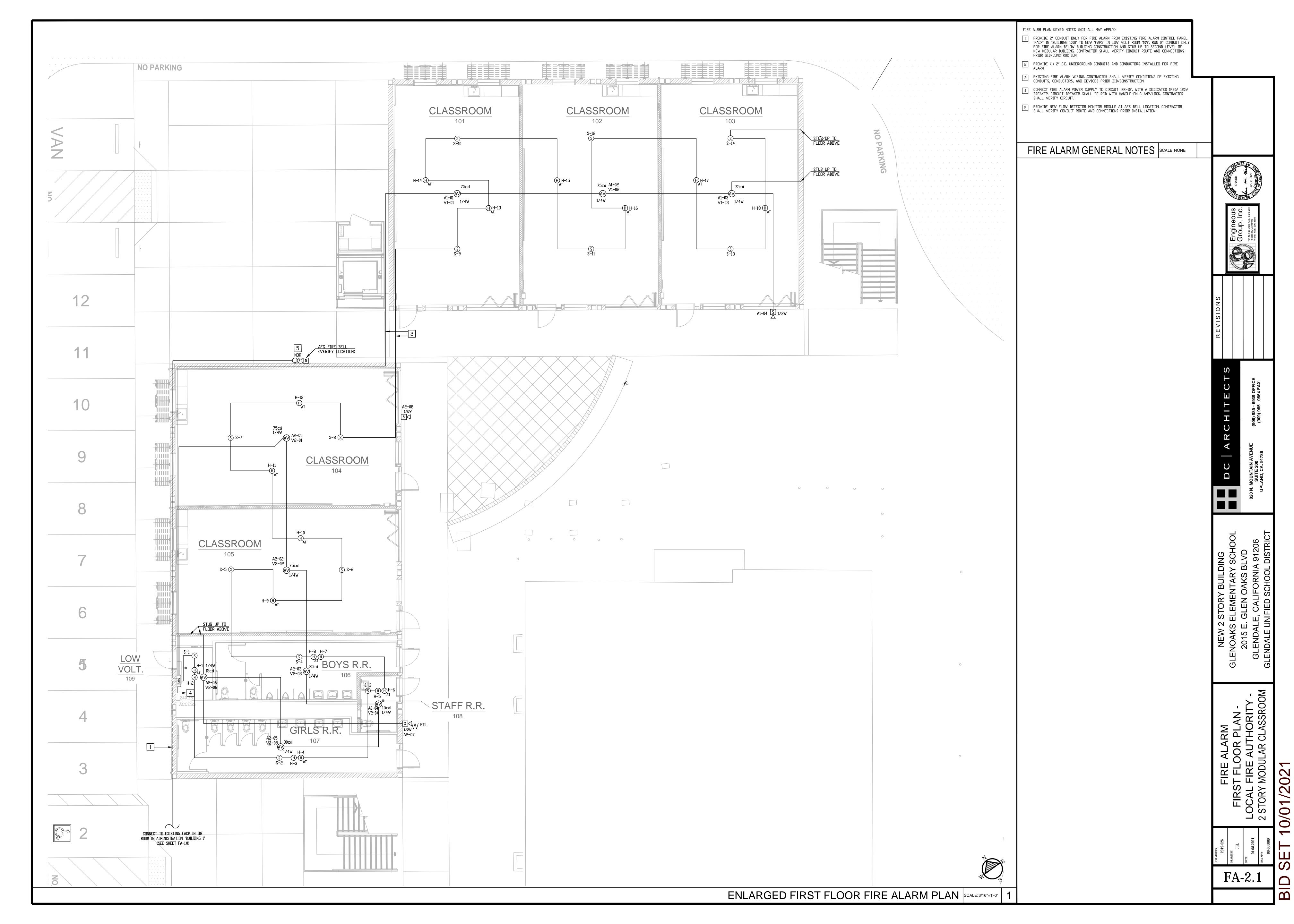
(N) FAPS VOLTAGE DROP CALCULATION SCALE: NONE

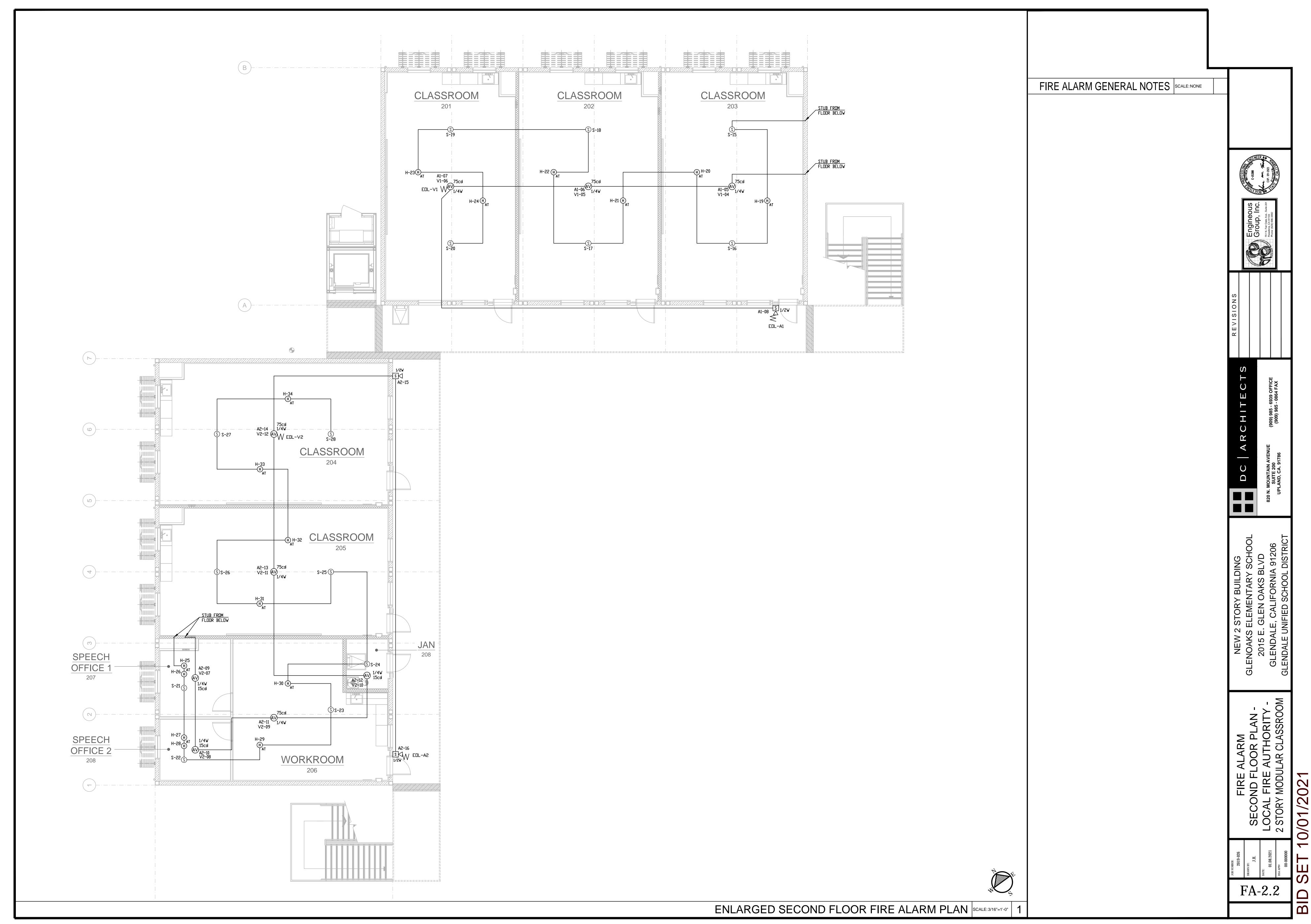
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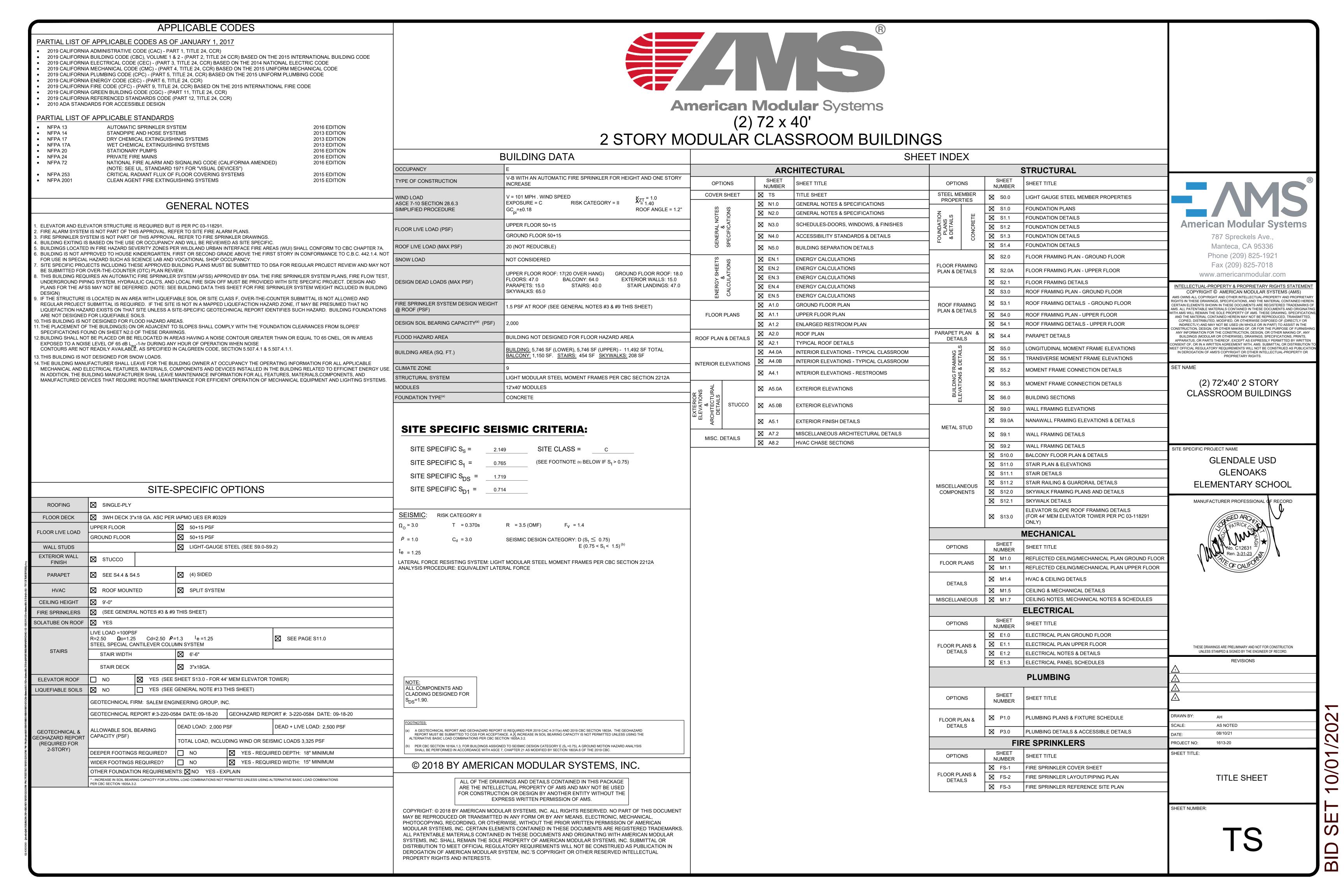
CIRCULAR MILLS

VOLTAGE









- THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION. B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND
- C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2019 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.

NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.

- SCOPE OF WORK
 - THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE. MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
 - ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
 - GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
 - 2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING. MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
 - 3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
 - 4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
 - 5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
 - 6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT
 - 7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
 - 8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
 - 9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
 - 10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
 - 11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
 - 12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
 - 13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
 - 14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

- ASSUMED ALLOWABLE SOIL BEARING CAPACITY FOR FOUNDATION DESIGN: 2000 P.S.F. FOR CONCRETE FOUNDATIONS EMBEDDED 12" MINIMUM BELOW GRADE. (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
- PROJECT GEOTECHNICAL REPORT #3-220-0584 DATED 09-18-20 PROVIDED BY SALEM ENGINEERING GROUP, INC.
- FOOTINGS SHALL BE LOCATED ON UNDISTURBED, FIRM, NATURAL SOIL OR APPROVED COMPACTED FILL IN ACCORDANCE WITH THE SITE PROJECT GEOTECHNICAL REPORT.
- WORK NOT INCLUDED:
- . ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
- B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
- WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 3 CONCRETE

CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14.

- THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS: BUILDING FOUNDATION VENTS & ACCESS WELLSPER SHEET S1.0 (150
- CONCRETE OVER METAL DECK, STAIR UPPER LANDING & SKYWALK FOUNDATIONS.....PER SHEET S1.0 (150PCF)
- THE MAXIMUM WATER TO CEMENT (W/C) RATIO SHALL BE PER SHEET S1.0 FOR FOUNDATIONS AND 0.45 FOR CONCRETE OVER METAL DECK SLABS.
- CONCRETE SLUMP SHALL BE 4" ± 1".
- CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- A. FLY ASH SHALL CONFORM TO ASTM C618 CLASS 'F' OR 'N' AND SHALL NOT EXCEED 25% CEMENT REPLACEMENT BY WEIGHT. B. SLAG CEMENT SHALL CONFORM TO ASTM C 989, GRADE 100 OR 120 AND SHALL
- NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT
- C. COMBINATION OF FLY ASH & SLAG CEMENT SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
- CONCRETE AGGREGATES:
- A. NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33. B. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO ASTM C330.

- CONCRETE continued
- C. MAX AGGREGATE SIZE SHALL BE 1"±1/4" FOR NORMAL WEIGHT CONCRETE EXCEPT 3/8" OR 1/2" MAX. MAY BE USED FOR FOUNDATION VENTS & ACCESS WELLS. MAX AGGREGATE SIZE SHALL BE 3/8" OR1/2" FOR LIGHT WT. CONCRETE.
- REINFORCING SHALL CONFORM TO ASTM A615-GRADE 60, UNLESS OTHERWISE NOTED.
- 8. CONCRETE COVERAGE OVER REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWINGS CONCRETE DIRECTLY AGAINST GROUND (EXCEPT SLABS). CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS ... SLABS (ON GROUND)POSITION IN CENTER OF SLAB
- ALL BARS SHALL HAVE A CLASS B MINIMUM LAP SPLICE PER 20/S1.3 AND SPLICES IN

ADJACENT BARS SHALL BE STAGGERED, UNLESS OTHERWISE NOTED.

- 10. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY DETAILED IN THE APPROVED DRAWINGS. BARS DETAILED TO BE WELDED SHALL BE ASTM A706 BARS AND WELDING ELECTRODES SHALL BE E80XX. WELDING SHALL CONFORM WITH AWS D1.4-2017 AND SHALL BE CONTINUOUSLY INSPECTED.
- 11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAP SPLICED TWO SQUARES MINIMUM EACH DIRECTION.
- 12. NOTIFY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
- 13. CHEMICAL ADMIXTURES SHALL CONFORM TO ASTM C494.
- 14. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260.
- 15. NON-SHRINK GROUT: ASTM C1107, 5000 PSI MIN AT 7 DAYS

SECTION 5 STEEL

- GENERAL ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16 AND SECTION 2212A.1.2, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS. A COPY OF
- TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES. A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER "M" AND AISC 341-16 CHAPTER "1"
- WELDING ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTION 1705A.2.5 WELDING ELECTRODE SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-2016. SECTION 6.1.
- STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
 - A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O.
- STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A572 GRADE 50 TYP. U.N.O. WHERE DRAWINGS SPECIFY 36 KSI MIN., CHANNELS MAY CONFORM TO EITHER ASTM A36 (36KSI) OR ASTM A572 GRADE 50.
- PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05% TYP. U.N,O.
- D. STRUCTURAL STEEL TUBING (HSS) SHALL CONFORM TO ASTM A-500 GRADE B OR C OR ASTM A1085, TYP. U.N.O.`
- E. STEEL PLATES, ANGLES, BARS AND MISC. SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP, U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, PROVIDE STEEL CONFORMING TO ASTM A572 GRADE 50 NOTE: UNLESS NOTED OTHERWISE ASTM A572 GRADE 50 MAY BE SUBSTITUTED FOR ASTM A36 (36 KSI).
- 4. ERECTION STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
- 5. NAILS, BOLTS, SCREWS AND NUTS, ETC. FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
- BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER OF BOLT + 1/16" UNLESS OTHERWISE NOTED. NELSON STUDS (WELDED TO STEEL) MAY BE JBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER
- SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS &
- HANDRAILS FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH.
- EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
- 8. GALVANIZING
- APPLY ZINC COATING BY THE HOT-DIP PROCESS PER ASTM A123. WHERE GALVANIZING IS DAMAGED OR MISSING, REPAIR WITH GALVANIZING
- REPAIR PAINT PER ASTM A780. C. UNLESS NOTED OTHERWISE, GALVANIZE ALL UNPAINTED EXTERIOR STEEL THAT IS EXPOSED TO THE ELEMENTS.
- A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

- SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
- MATERIALS
- LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES". LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH VOLUNTARY PRODUCT STANDARD PS 1-09 & PS 2-10 FOR SOFTWOOD OSB OR PLYWOOD, OF DEPARTMENT OF COMMERCE (DOC). EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR PFS TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.
- A. JOISTS, HEADERS, PLATES, STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MINIMUM, U.N.O. NOTE: MSR 1650f-1.5E (HEM FIR) MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
- B. PSL HEADERS: TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR EQUIV. MEETING THE FOLLOWING STRUCTURAL PROPERTIES.

BEAMS ≤ 7" DEEP & COLUMNS	BEAMS ≥ 9¼" DEEP
F _b = 2400 PSI MIN.	F _b = 2900 PSI MIN.
F _v = 190 PSI MIN.	F _v = 290 PSI MIN.
E = 1.8E6 PSI MIN.	E = 2.0E6 PSI MIN.

- C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
- D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
- E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1, EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 GROUND CONTACT, D.F. (OR H.F.) #2.

CARPENTRY continued

- F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1404.2 & ASTM D226, TYPE I.
- G. STUDS S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
- H. FASTENERS FASTENERS SHALL BE CORROSION RESISTANT PER C.B.C. 2304.10.1.1 (COMMON NAILS PER ASTM F1667 FOR EXTERIOR SHEATHING ONLY) (0.131"x3" NAILS @ STACKED 2x PLATES)
- I. BUILDING TRIM 2x RESAWN SELECT D.F., H.F., OR CEDAR.
- J. DOOR/WINDOW TRIM 1x4 RESAWN D.F., H.F., OR CEDAR.
- K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
- L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2
- M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE
- N. ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
- O. ALL BOLTS AND LAG SCREWS SHALL COMPLY WITH THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI\AWC NDS-2018).
- P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
- Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
- R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.

WORKMANSHIP

- A. FRAMING SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT. FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
- B. NAILING IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE
- C. EXTERIOR WALLS FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
- D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.
- E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- F. MOISTURE BARRIER APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
- G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7A SHEET METAL

I. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

MATERIALS

ASTM B32.

WORKMANSHIP

OF ASPHALTIC PAINT.

- A. SHEET METAL STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- B. SOLDER OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN
- C. FLUX ZINC SATURATED MURIATIC ACID.
- D. GUTTERS: 26 GA. G-90 GALV. STEEL 2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL DOWNSPOUTS: GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL 18 GA, G-90 GALV, STEEL GUTTER CLIPS:
- E. FASTENERS: SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS. LENGTH TO HAVE 3 **EXPOSED** THREADS MIN.
- SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL

BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT

SECTION 7B METAL ROOFING

SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

- SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS OR CALCULATIONS SHOWING THE ROOFING
- A. ROOF: 3 INCH STANDING SEAM, MINIMUM 20-GAUGE, ASTM A653 G-90 GALV. INTERLOCKING (UN-PENETRATED) ASTM A1011 SS GR. 36 SHEET STEEL PANELS

SYSTEM WILL WITHSTAND THE UPLIFT OF 101 MPH BASIC WIND SPEED SHALL BE

- B. CLASS B FIRE RATING.
- C. FASTENERS SHALL BE HOT-DIPPED GALVANIZED.

SECTION 7C SEALANT

- SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
- VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
- A. SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)

SEALANT continued

MANUFACTURER'S SPECIFICATIONS

WORKMANSHIP SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH

SECTION 8 HOLLOW METAL DOORS AND FRAMES

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
- MATERIALS

WORKMANSHIP

PRIME COAT.

- A. DOORS INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
- B. FRAMES 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
- ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN

(EXTERIOR PORTLAND SECTION 9A STUCCO CEMENT PLASTER)

LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER, PER C.B.C 2507.1.

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND CHAPTER 35, AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7.

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN C.B.C. TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 (PER 2508.1).

2510.6 WATER-RESISTIVE BARRIERS. WATER-RESISTIVE BARRIERS SHALL BE INSTALLED

AS REQUIRED IN SECTION 1404.2, AND WHERE APPLIED OVER WOOD-BASED

SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY

NONWATER-ABSORBING LAYER OR DRAINAGE SPACE.

STRAIGHT EDGE.

OR EQUAL.

PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER. EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT 60-MINUTE GRADE D PAPER COMPLYING WITH ASTM E2556, TYPE II AND IS

SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A

- PLASTER NOTES: PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR
- GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5. A. THE FIRST COAT SHALL BE MIN. 3/8" THICK & APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO
- PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT. B. THE SECOND COAT SHALL BEBE BROUGHT OUT TO MIN. 3/8" THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT
- C. THE FINISH COATS SHALL BE MIN. 1/8" THICK & APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926. THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 9B PAINTS & COATINGS

- SCOPE OF WORK. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
- MATERIALS A. FOR EXTERIOR WOOD: KELLY SHERWIN SINCLAIR REF.BRAND DUNN **EDWARDS** MOORE **WILLIAMS** 42-9M Y24W20 289-N 1240 QD-60-XX 1240-XXX B54WZ102 GE2-NXX FINISH FOR INTERIOR TRIM: KELLY SHERWIN SINCLAIR REF.BRAND DUNN **EDWARDS** MOORE **WILLIAMS**
- W450-XX 1650-XXX A26W11 40XX FINISH C. FOR METAL KELLY SHERWIN SINCLAIR REF.BRAND DUNN **EDWARDS** MOORE **WILLIAMS** PRIMER 1710 B50NZ6 15N 10-XX 1700-XXX B54WZ102 GE2-NXX FINISH
- D. INTERIOR PAINT & COATINGS SHALL COMPLY WITH TITLE 24, PART 11, "CAL-GREEN" SECTION 5.504.4.3, AND V.O.C. LIMITS PER TABLE 5.504.4.3.
- WORKMANSHIP ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES,

THRESHOLDS AND METAL ROOFING. MATERIAL SHALL BE OF THE GRADE SPECIFIED

- A. EXTERIOR WOOD SIDING. TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
- B. INTERIOR TRIM TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
- C. INTERIOR HARDWOOD CABINETS TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
- FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.

D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD

PAINTS & COATINGS continued

- E. RAMP ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST, OR EQUAL.
- F. SUBMIT ONE SET OF COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 5.504.4.4

SECTION 9C INTERIOR AIR QUALITY CONTROL

- THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):
- ADHESIVES, SEALANTS, CAULKS SECTION 5.504.4.1 PAINTS, COATINGS
- SECTION 5.504.4.3 AEROSOL PAINTS & COATINGS SECTION 5.504.4.3.1
- A. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI '140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4. CARPET CUSHION OR PAD SECTION 5.504.4.4.1
- A. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM.
- COMPOSITE WOOD PRODUCTS SECTION 5.504.4.5 A. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS
- SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17 CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5. RESILIENT FLOORING SYSTEMS SECTION 5.504.4.6
- A. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE" PROGRAM BY RFCI, COMPLY WITH CA-CHPS, OR OTHER APPROVED TESTING PER 5.504.4.6.

SECTION 13 SITE ASSEMBLY

4. CARPET SYSTEMS

CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ASSEMBLY OF ELEMENTS

- A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS
- OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS. B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
- CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

- SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES) CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C
- SYSTEM.
- SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.

SCOPE OF WORK

- UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SECTION 26 ELECTRICAL
- ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS,

A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR

CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT. EMERGENCY VOICE

- ALARM COMMUNICATION SYSTEMS (EVACS). B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.
- ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.
- A. ELECTRIC METALLIC TUBING COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C.
- B. PANEL BOARDS FLUSH MOUNTED. C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES
- #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE-#14.

D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN. TO BOTTOM OF BOX

- E. CLOCK RECEPTACLE AS NOTED.
- F. SWITCHES AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
- MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS

SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING

SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND

SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A

WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO

INSPECTION

SEALTITE).

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:

IN-PLANT INSPECTION. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE

A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-IPI).



Manteca, CA 95336

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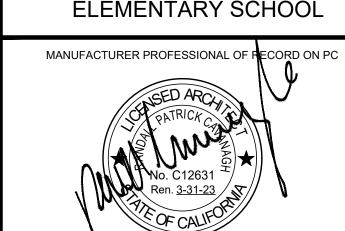
SET NAME

CLASSROOM BUILDINGS

(2) 72'x40' 2 STORY

SITE SPECIFIC PROJECT NAME

GLENDALE USD **GLENOAKS**



AS NOTED

1614-20

HESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

PROJECT NO:

SHEET TITLE:

DRAWN BY:

SCALE:

GENERAL NOTES

SPECIFICATIONS

SHEET NUMBER:

S 9 0 $\overline{}$

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

- ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
- ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED. FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.
- CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.
- WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

- UP TO TWENTY (20) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT FOUR (4) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE
- EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
- A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
- B. DESIGN WIND SPEED / EXPOSURE
- C. DESIGN SEISMIC S VALUE
- D. DESIGN ROOF LIVE LOAD & SNOW LOAD. DESIGN FLOOR LIVE LOAD
- F. D.S.A. APPLICATION NUMBER
- 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
- EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL OADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
- EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
- FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DOORS & WINDOWS

- EXTERIOR DOORS: METAL DOORS 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE. PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
- EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
- GLAZING MATERIAL SHALL BE: EXTERIOR LITE 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
- HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.

INTERIOR

- FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED. HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP. TEXTURED LOOP. LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY ARCHITECT OR OWNER.)
- BASE: RESILIENT COVE BASE BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
- INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
- CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636 AND ASTM E580 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.
- THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
- A. ADHESIVES, SEALANTS, CAULKS
- B. PAINTS, COATINGS
- **AEROSOL PAINTS & COATINGS** CARPET SYSTEMS
- SECTION 5.504.4.4 D.1. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI '140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4.
- E. CARPET CUSHION OR PAD SECTION 5.504.4.4.1 E.1. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM.
- F. COMPOSITE WOOD PRODUCTS SECTION 5.504.4.5 F.1. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17

SECTION 5.504.4.1

SECTION 5.504.4.3

SECTION 5.504.4.3.1

PIPE INSULATION (CLASS 'A')

SMOKE DEVELOPED MAX = 450

DUCT INSULATION (CLASS 'A')

FLAME SPREAD MAX = 25

FLAME SPREAD MAX = 25

- CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5. G. RESILIENT FLOORING SYSTEMS SECTION 5.504.4.6 G.1. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE PROGRAM BY RFCI, COMPLY WITH CA-CHPS 01350, OR OTHER
- APPROVED TESTING PER 5.504.4.6. H. HVAC FILTER (MERV RATING OF 8+) 5.504.5.3.1
- FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

WALL FINISH MATERIAL (CLASS 'C') FLAME SPREAD MAX = 200 SMOKE DEVELOPED MAX = 450

BUILDING INSULATION (CLASS 'A') FLAME SPREAD MAX = 25

SMOKE DEVELOPED MAX = 450

DEVELOPMENT RATING: 450. (BY OTHERS)

SMOKE DEVELOPED MAX = 50 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

MECHANICAL EQUIPMENT **PROTECTION**

ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FOUNDATION CLEARANCES FROM SLOPES

08A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW LOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION ROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION 808A.7.5 AND FIGURE 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE HIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE JNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE T THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO HE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE

1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE OUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL VITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE ERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT XCEPT AS PROVIDED FOR IN SECTION 1808A.7.5 AND FIGURE 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN I UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

FIRE EXTINGUISHER

EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

REFERENCE: 2019 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

<u>SECTION 11B-216 SIGNAGE</u> (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

- SIGNAGE IS REQUIRED:
- . TO IDENTIFY PERMANENT ROOMS & SPACES
- 2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES 3. TO IDENTIFY MEANS OF EGRESS
- A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9 AND 1009.11)
- B. DIRECTIONS TO AN EXIT (PER 1009.10) C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
- D. EXIT WAYS (PER 1013.4) AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
- AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
- AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC. OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT
- IMMEDIATELY VISIBLE (PER 1013.1) . TO IDENTIFY PARKING SPACES
- 5. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE 6. TO IDENTIFY ELEVATORS
- TO IDENTIFY TOILET ROOMS
- 8. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

SECTION 11B-404.2.8 DOOR CLOSING SPEED THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12" FROM THE

SECTION 11B-404.2.9 DOOR OPENING FORCE

. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS

DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

SECTION 11B-405.5 RAMP WIDTH . THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

- THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38". MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
- . HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALL AROUND. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND

SECTION 11B-608.5 WATER CONTROLS

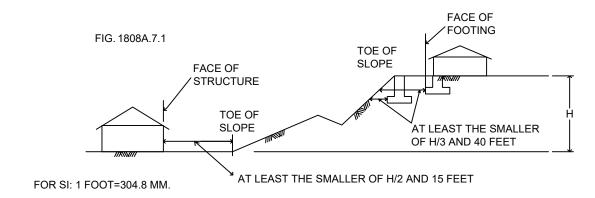
- CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
- . THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.
- SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION
- EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR,

THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE

- UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE
- CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE

OUTDOOR VENTILATION REQUIREMENTS:

- CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
- FOR CLASSROOMS GREATER THAN 750 SF OCCUPANT SENSOR VENTILATION CONTRO DEVICES SHALL BE INSTALLED PER CEC 120.2(e)3, AND SHALL OPERATE IN ACCORDANCE WITH CEC 120.1(c)5.



LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

- ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI S100-16. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE
- FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
- CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 SS STEEL SHEETS. . STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS
- GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH AISI S240-15, SECTION A4. PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED.
- LIGHT GAUGE STEEL TUBES FOR GUARD RAILS/POSTS SHALL BE ASTM A1011, GRADE 45(Fy=45KSI).
- WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL COMPY WITH AWS D1.3-08.

ASSOCIATION. ICC-ES EVALUATION REPORT ESR-3064P.

FASTENERS FOR ATTACHMENT TO STEEL

- SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513,UON..
- A. HEAD TYPE AS REQUIRED FOR APPLICATION.

ABBREVIATION LEGEND

ASPHALT CONCRETE

AMERICAN CONCRETE INSTITUTE

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

AMERICAN NATIONAL STANDARDS INSTITUTE

AMERICAN WOOD PROTECTION ASSOCIATION

AMERICAN IRON AND STEEL INSTITUTE

AMERICAN SOCIETY FOR TESTING AND

ADJUSTABLE OR ADJACENT

AMERICAN WOOD COUNCIL

AMERICAN WELDING SOCIETY

AIR CONDITIONING

ACCESSIBLE

ACOUSTICAL

ADDENDUM

ADDITIONAL

ALTERNATE

ALUMINUM

MATERIAL S

BUILDING

BLOCKING

BOUNDARY NAILING

BUILT UP ROOFING

CALIFORNIA BUILDING CODE

CALIFORNIA CODE OF REGULATIONS

COMPLETE JOINT PENETRATION

CONCRETE MASONRY UNIT

COMMUNITY NOISE EQUIVALENT LEVEL

DRINKING FOUNTAIN OR DOUGLAS FIR

DIVISION OF THE STATE ARCHITECT

ELECTRICAL MAGNETIC TUBING

EDGE NAILING (OR EDGE FASTENING)

BLOCK

BFLOW

BETWEEN

CARPET

CABINET

CEMENT

CEILING

CLEAR

CATCH BASIN

CUBIC FOOT

CAST-IN-PLACE

CERAMIC TILE

CLEAN OUT

CONCRETE

CENTERED

DOUBLE

DIAMETER

DIAGONAL

DIMENSION

DOWNSPOU^{*}

DRAWING

EXISTING

ELEVATION

ELECTRICAL

ET CETERA

EACH WAY

EXPOSURE

EXTERIOR

FAHRENHEIT

FABRICATION

FLOOR DRAIN

FINISHED FLOOR

FLAT HEAD WOOD SCREW

FUTURE

FACTORY

FINISH

FLOOR

FND/FNDN FOUNDATION

FLASHING

FIELD NAILING

FACE OF CONCRETE

FACE OF FINISH

FG FINISHED GRADE

EQUAL

EMBEDMENT

EXPANSION JOINT

EACH

DIVISION

DOOR

COLD WATER

CONNECTION

CONTINUOUS

COUNTERSINK

COLUMN

CONTROL JOINT

BEAM

BOT/BOTT BOTTOM

BRG BEARING

ARCHITECT(URAL)

ANCHOR BOLT

AB

ACI

ADD

ADD'L

AISC

AISI

ALT

ALUM

ANSI

ARCH

ASTM

AWC

AWPA

AWS

BD

BLDG

BLK

BLKG

BLW

BTWN

CB

CBC

CCR

CEM

CJP

CLG

CT

CMU

CNEL

COL

CONC

CONN

CONT

CSK

CTRD

CW

DBL

DET

DIA

DIAG

DIM

DIV

DR

DSA

DWG

ELEV

EMT

ΕN

ETC

EQ

EW

EXP

EXT

FUT

FAB

FAC

FHWS

FIN

FLR

FOC

FLSHG

FO FACE OF

FD

ELECT

EMBED

CO

BM

ADJ

ACOUS

- B. SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO LIGHT GAUGE STEEL
- CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
- SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL OR CONCRETE SHALL BE BY HILTI UNO.

FOP

FOS

FRP

FTG

FURR

FT

GL

GSM

GYP

HDR

HDW

HM

HSS

HVAC

ISA

LAM

LLV

LNDG

LONG

LW

LWC

MATL

MAX

MFG

MFR

MM

MTL

NDS

OC

OD

OH

OPG

OPP

OSB

PJP

PLAS

PNL

POC

PSI

PSL

PTN

PLF

OL

LB, LBS

GYP.BD.

FACE OF PLYWOOD

FIBERGLASS REINFORCED PLASTIC PANELS

FACE OF STUD

FURRED (-ING)

GYPSUM BOARD

GLASS OR GLAZING

GALVANIZED SHEET METAL

HOLLOW METAL (STEEL)

AND MECHANICAL OFFICIALS

INSIDE DIAMETER

INSULATE (D), (ION)

INCH

INTERIOR

INVFRT

JOINT

LAMINATE(D)

LAVATORY

POUND

LANDING

LIGHT

MATERIAL

MINIMUM

MIRROR

METAL

OVER

ON CENTER

OPENING

OPPOSITE

PLASTER

PLATE

PLWD/PLY PLYWOOD

MILLIMETER

MAXIMUM

MECHANICAL

MECHANICAL BOLT

MANUFACTURING

MANUFACTURER

MISCELLANEOUS

NOT IN CONTRACT

NORMAL WEIGHT

OUTSIDE DIAMETER

OCCUPANT LOAD

PROPERTY LINE

PLASTIC LAMINATE

NATIONAL DESIGN SPECIFICATION

NORMAL WEIGHT CONCRETE

OPPOSITE HAND OR OVERHANG

ORIENTED STRAND BOARD

POWER-ACTUATED FASTNER

PARTIAL JOINT PENETRATION

POUNDS PER LINEAR FOOT

POINT OF CONNECTION

PRODUCT STANDARD

PRESSURE TREATED

POLYVINYL CHLORIDE

PARTITION

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PARALLEL STRAND LUMBER

PRESERVATIVE TREATED DOUGLAS FIR

LONGITUDINAL

LIGHT WEIGHT

LAG SCREW

INTERNATIONAL CODE COUNCIL

INTERPRETATION OF REGULATIONS

KIPS PER SQUARE INCH (KIPS = 1,000LBS)

INTERNATIONAL SYMBOL OF

ACCESSIBILITY/ACCESS

LONG LEG HORIZONTAL

LIGHT WEIGHT CONCRETE

LONG LEG VERTICAL

HOLLOW STRUCTURAL SECTION (STEEL)

HEATING VENTILATING AIR CONDITIONING

INTERNATIONAL ASSOCIATION OF PLUMBING

FOOT

GAUGE

GYPSUM

HOSE BIBB

HEADER

HEM FIR

HOR/HORIZ HORIZONTAL

GYPSUM BOARD

HOLLOW CORE

HARDWOOD

GLV/GALV GALVANIZED

FOOTING

METAL FLOOR DECK

- SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI, "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS,
- METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
- ASTM REFERENCE NUMBERS: ASTM A653, STEEL SHEET, ZINC-COATED

(GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE HOT-DIP

- PROCESS STRUCTURAL (PHYSICAL) QUALITY. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN
- CONFORMANCE WITH SDI STANDARDS.
- METAL FLOOR DECK TO BE ASC STEEL DECK PER IAPMO ER-0329: 5.1. BH-36, 18 GAUGE, $1\frac{1}{2}$ " DEEP x 36" WIDE
- 5.2. NH-32, 18 GAUGE, 3" DEEP x 32" WIDE
- 5.3. 3WxH-36, 18 GAUGE, 3" DEEP x 36" WIDE
- DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO:
- ASTM A653 SS, Fy=50 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

RISER

ROOF DRAIN

REDWOOD

REFERENCE

REFRIGERATO

REINFORCING

RESILIENT

REDWOOD

STORM DRAIN

SCREW

SHEET

SIMILAR

SQUARE

STAIN

STEEL

STAGGERED

STANDARD

SECTION

SEPARATION

SQUARE FEET

SHEATHING

SHEET METAL SCREW

SPECIFICATIONS

STAINLESS STEEL

STRUCTURAL PLYWOOD

SELF TAPPING SCREW

TONGUE AND GROOVE

TOP AND BOTTOM

TOP OF PARAPET

TOP OF SHEATHING

UNLESS OTHERWISE NOTED

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

VINYL COVERED TACKBOARD

VOLATILE ORGANIC COMPOUND(S)

TEMPERED

THROUGH

TOOL JOINT

TOP OF WALL

TELEVISION

TYPICAL

VERTICAL

VERIFY

WOOD

WINDOW

WITHOUT

WAINSCOT

WEIGHT

ANGLE

CENTER LINE

MODULE LINE

PLUS/MINUS

DIAMETER

DEGREES

VERIFY IN FIELD

WIDE FLANGE

WOODSCREW

WELDED WIRE FABRIC

VINYL WALL COVERING

TRANSVERSE

SELF TAPPING SHEET METAL SCREW

TOP OF CURB, CRICKET, OR CONCRETE

TOP OF SLAB, SHEATHING, OR STEEL

REQ'D/REQ REQUIRED

SCH/SCHED SCHEDULE

RESPONSIBLE CHARGE

RAIN WATER LEADER

REGISTERED DESIGN PROFESSIONAL IN

SELF DRILLING SELF-DRILLING, SELF-TAPPING

RD

RDPRC

RDWD

REFR

RFINF

RES

RWL

RDWD

SDSTS

SEC

SEP

SHT

SIM

SMS

SQ

SS

STN

STL

STS

T&B

T&G

TEMP

THRU

TOS

TOW

TV

TYP

UON

VCT

VCTB

VERT

VOC

VFY

VIF

WD

WIN

WSCT

WWF

WT

TRANS

STSMS

STAGG

SHTG

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www.americanmodular.com

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> (2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

GLENDALE USD **GLENOAKS ELEMENTARY SCHOOL**



UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD. REVISIONS

AS NOTED 07/05/21 PROJECT NO:

SHEET TITLE:

GENERAL NOTES & SPECIFICATIONS



SET NAME

SITE SPECIFIC PROJECT NAME

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

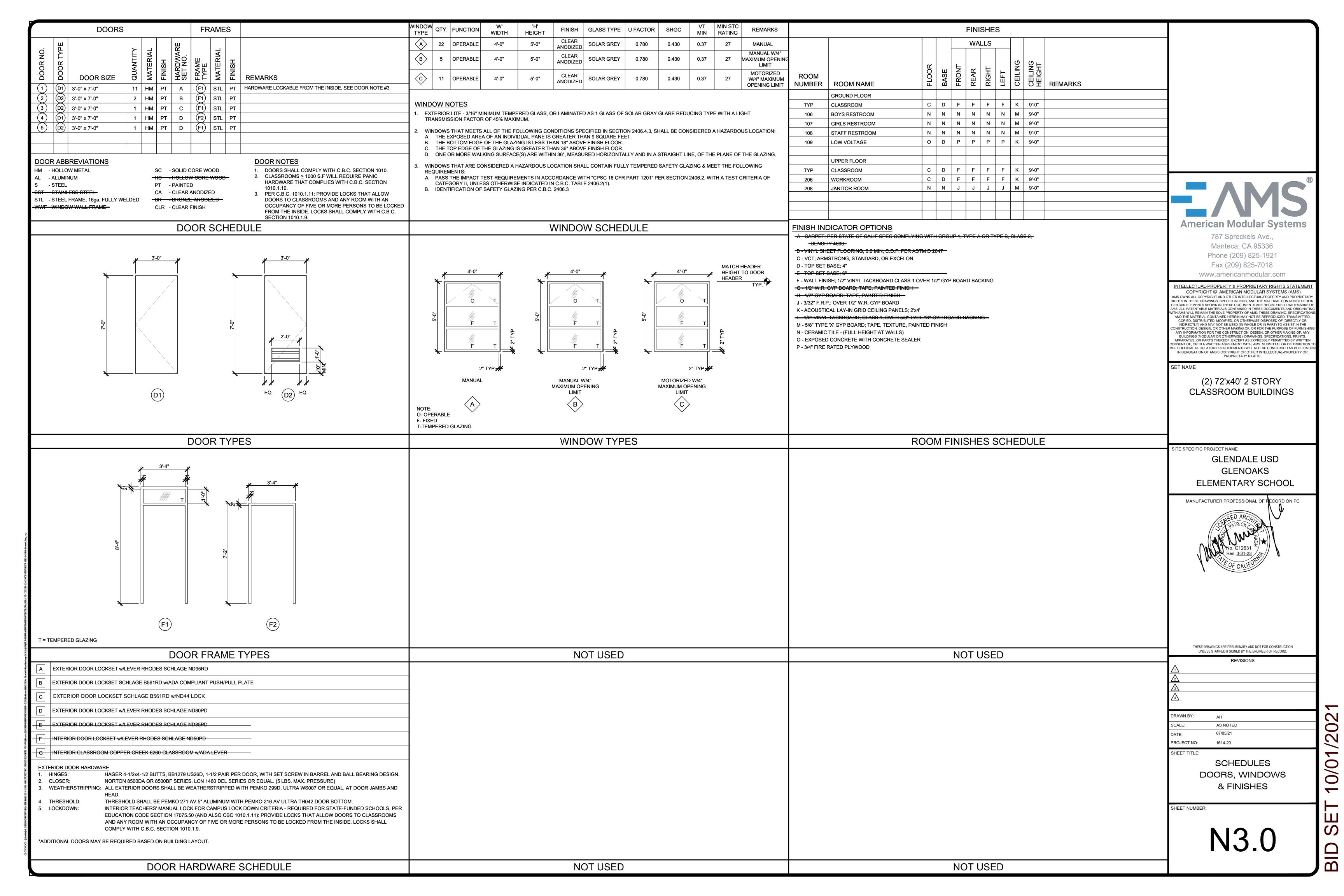
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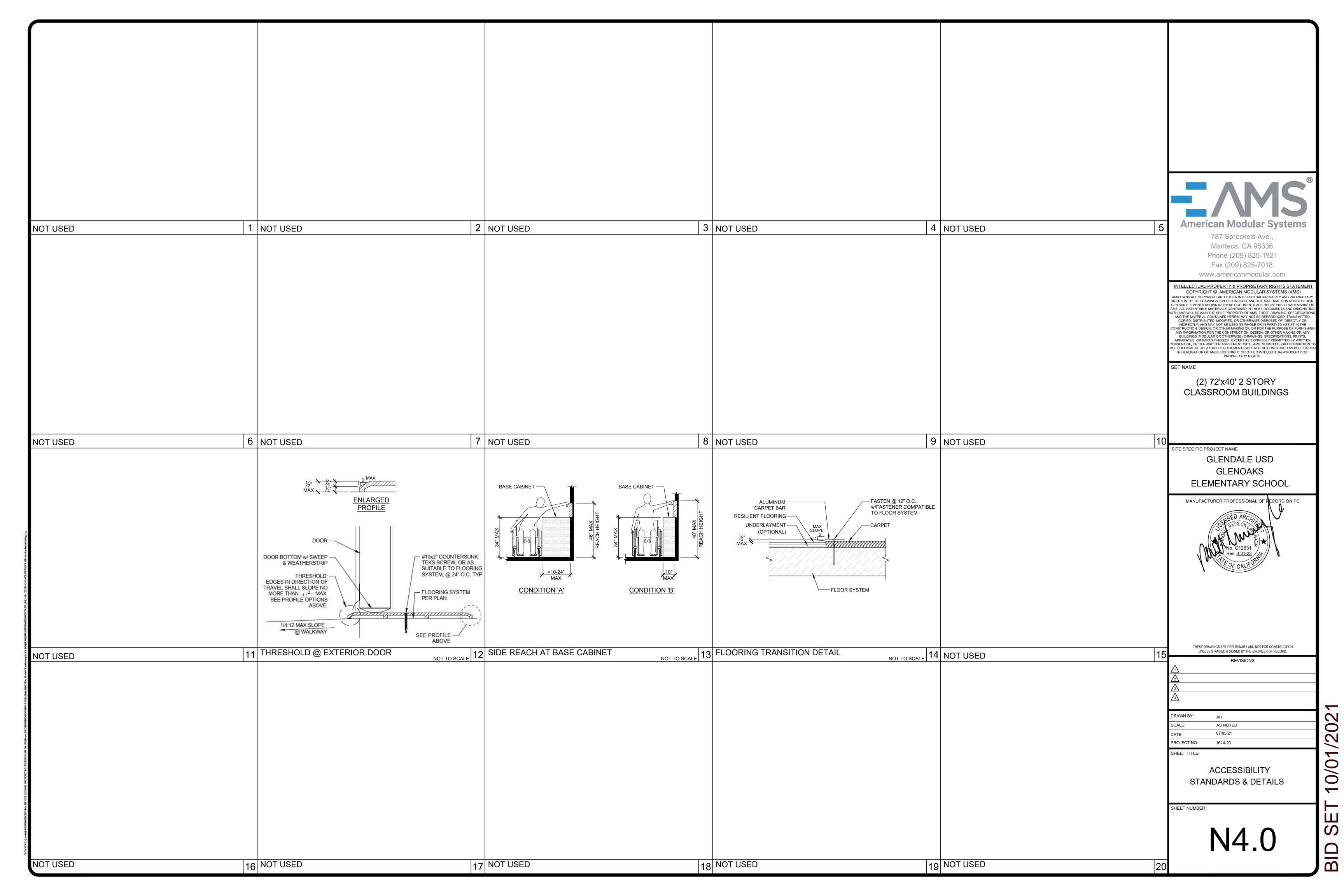
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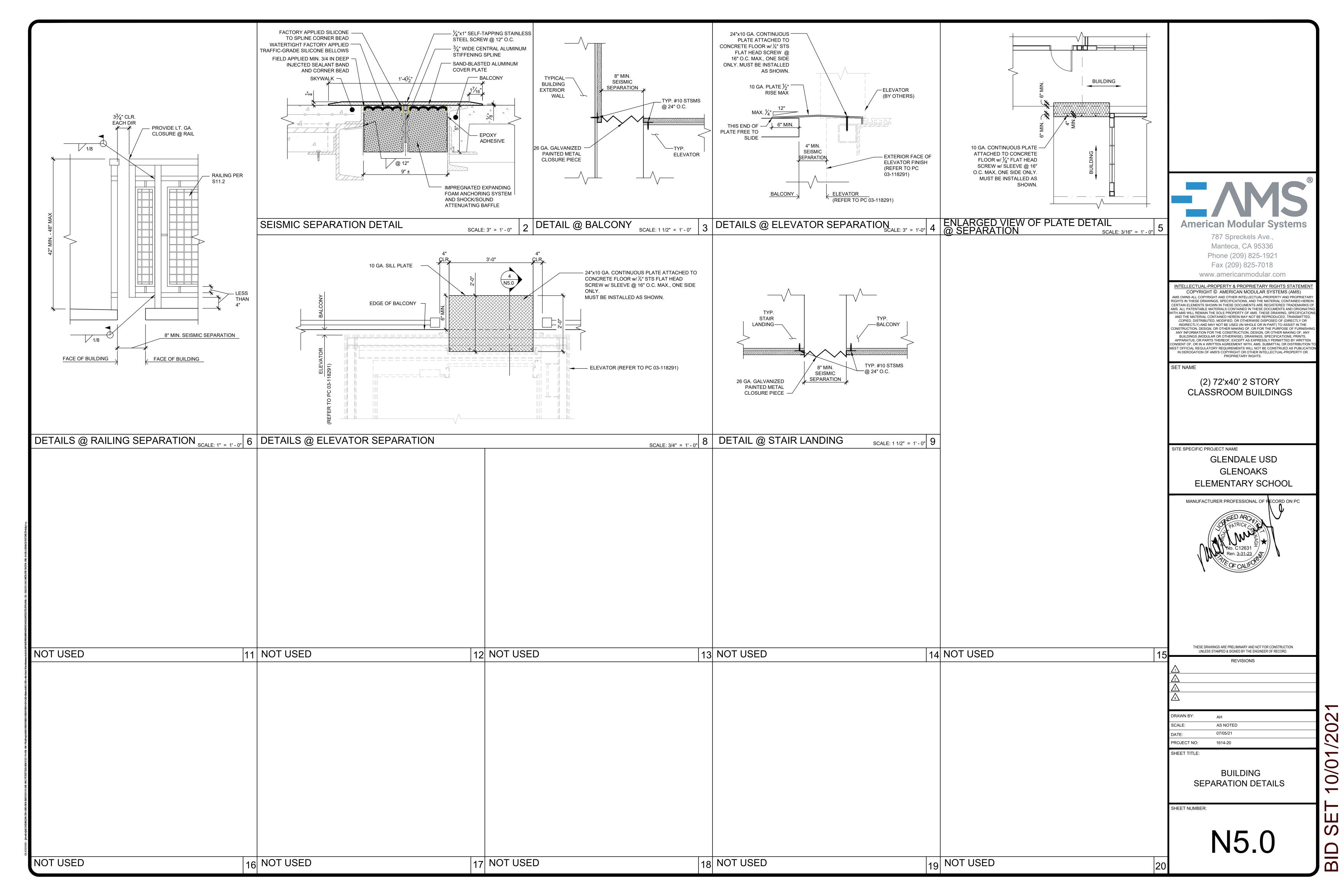
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1614-20

SHEET NUMBER:







Project Name:	Glendale USD Glenoaks	FS - ClassR 101-203		NRCC-PRF-01-E	Page 1 of 19													
•	2015 E Glenoaks Blvd G			Calculation Date/T		021		Project Name: Project Address:		Glenoaks ES - ClassR 101-203 ks Blvd Glendale 91206	3		NRCC-PR	RF-01-E on Date/Time:	Page 4 of 19 17:45, Tue, Ma	er 16 2021		
Input File Name:	AMS Glenoaks ES ClassF	Bldg.cibd19						Input File Name:		ES ClassR Bldg.cibd19			Calculati	on bate, rime.	17.43, 140, 1416	10, 2021		
A. GENERAL INFORMA	TION							G1. ENVELOPE GENE	ERAL INFORMAT	ION (conditioned spaces	only)		•		•			
1. Project Location (cir	ty)	Glendale	8.	Standards Version	· · · · · · · · · · · · · · · · · · ·	nce2019			1		2			3			4	
2. CA Zip Code3. Climate Zone		91206	9.	Compliance Software Weather File	· · · · · · · · · · · · · · · · · · ·	Com 2019.1.3 JK-GLENDALE_722880_C	CZ2010.epw	Opaque Surfac	ces & Orientation	Total Gros	s Surface Area (ft²)	Total	Fenestration A		-	Window to Wall	Ratio (%)
4. Total Conditioned F	Floor Area in Scope	5,661 ft ²		Building Orientation					North-F			1,415 ft ²			240 ft	+		1
5. Total Unconditioned	d Floor Area	0 ft ²	12	. Permitted Scope o	f Work NewCor	nplete			East-F South-F	Facing ²		800 ft ²			0 ft 527 ft			3
<u> </u>	labitable Above Grade)	2		Building Type(s)	Nonresi				West-F			800 ft ²			0 ft	-		0
7. Total # of dwelling u	units	0	14	Gas Type	Natural	Gas				Total		4,430 ft ²			767 ft	2		1
B. PROJECT SUMMARY	7							Roof				2,831 ft ²			0 ft	2		0
Table Instructions: Table B permit application.	B shows which building co	omponents are included in the perf	formance calculation	on. If indicated as not	included, the project must sh	ow compliance prescript	tively if within	Notes: ¹ North-Facing is orie	ented to within 4!	5 degrees of true north, in	cluding 45°00'	00" east of no	rth (NE), but	t excluding 45	5°00'00" west of	north (NW).		
		ponents Complying via Performan			Building Compo	nents Complying Prescrip	ptively			degrees of true east, inclu 5 degrees of true south, in								
Favolone (see Table C)		Covered Process: Com			The following building compo compliance and should be do					degrees of true west, incl							<i>W).</i>	
Envelope (see Table G)	□ Not I	ncluded Kitchens			the scope of the permit appli on the NRCC-PRF-E).	cation (i.e. compliance w	vill not be shown	G2. CRRC ROOFING	PRODUCT SUM	MARY								
Mechanical (see Table H)		rmance Covered Process: Com	unutar Paams		Indoor Lighting (Uncondition	ed)§140.6 NRCC-LT	TI-E		1			2		3	4			5
iviechanicai (see Table H)	☐ Not I	ncluded			Outdoor Lighting §140.7	NRCC-LT			Assembly N			Roof Pitch		lar Reflectance				SRI
Domestic Hot Water (see	Table I) Perfo	I (overed Process I abo	ratory Exhauct I	☐ Performance☑ Not Included	Sign Lighting §140.8	NRCC -L'	LTS-E		Ext Roof	f	L	.ow-Slope		0.63	0.7	5		78
	Not 1	ncidaed			Electrical power systems, con	nmissioning, solar ready,		G3. OPAQUE SURFAC	CE ASSEMBLY SU	IMMARY								
Lighting (Indoor Condition	ned, see	ormance			escalator requirements are n listed if applicable (i.e. compl			1		2	3	4	5	6	7	8 St		9
Table K)					NRCC-PRF-E.)	arra de Turas se		Surface N	ame	Surface Type	Area (ft²)		Cavity (R-Value	R-Value	J-Factor / F-Factor / C-Factor		Description of A	Assembly Layer
Color Thousand Water Hoot	 	ncluded			Electrical Power Distribution Commissioning \$120.8		ELC-E is required EXR-E is required										Metal Standing Jetal framed roof	
Solar Thermal Water Heat Table I)	lting (see			l.	Solar Ready S110.10		RA-E is required	Ext Ro	of	Roof	2831	Metal	30	NA	U-Factor: 0.062	N N	R-	-30
	,	,		· · · · · · · · · · · · · · · · · · ·		•											Air - Ceiling Gypsum Bo	
Project Name: Project Address:	Glendale USD Glenoaks 2015 E Glenoaks Blvd G			NRCC-PRF-01-E Calculation Date/1	Page 2 of 19 Time: 17:45, Tue, Mar 16, 2	2021												
,	AMS Glenoaks ES Class			Calculation Date/	17.45, Tue, War 16, 2	2021		Project Name: Project Address:		Glenoaks ES - ClassR 101-203 ks Blvd Glendale 91206	3		NRCC-PF	RF-01-E ion Date/Time	Page 5 of 19 : 17:45, Tue, M	or 16, 2021		
C1 COMPLIANCE PESI	LITS EOD DEDEODMAN	NCE COMPONENTS (Annual TD	N/ Enorgy Llco. k	D+11/f+ 2 1/r\	· ·			Input File Name:		ES ClassR Bldg.cibd19			Calculati	on Date, fille	. 17.43, Tue, Wi	ai 10, 2021		
C1. COMPLIANCE RESC	ULIS FOR PERFORIVIAL	NCE COMPONENTS (Annual TD						G3. OPAQUE SURFA	CE ASSEMBLY SI	INANAADV		,						
			COMPL					1	——————————————————————————————————————	2	3	4	5	6	7	8		9
Space Heating	Energy Component		Standard Desig	(n (TDV)	Proposed Design (TDV)	Compliance N	Margin (TDV) ¹ -25.79	Surface N		Surface Type	Area (ft²)	Framing	, ,		J-Factor / F-Facto	Stati	Description of	Assembly Layers
Space Cooling				112.25		1.18	31.07				' '	Туре	R-Value	R-Value	/ C-Factor	l s ₁	Stucco	- 7/8 in.
Indoor Fans				123.88	10	5.73	18.15									Fib.	Vapor permea	able felt - 1/8 in. rd - 88 lb/ft3 - 1/2 in.
Heat Rejection Pumps & Misc.								Ext Wa	all	ExteriorWall	4430	Metal	22	NA	U-Factor: 0.153		1etal framed wal	II, 16in. OC, 7.25in.,
Domestic Hot Water				13.30	1	3.30												oard - 1/2 in.
Indoor Lighting 29.46 13.86 15						15.60											tile - 1 in. d - 1/2 in.	
ENERGY STANDA	ARDS COMPLIA	NCE TOTAL		289.28	250.	.25 39	9.03 (13.5%)	Interior Floo	r/Ceiling	InteriorFloor	2831	Metal	19	NA	U-Factor: 0.074	N M	letal framed floo	or, 16in. OC, 7.25in., -19
¹ Notes: The number in	parenthesis following	the Compliance Margin in colu	ımn 4. represents	s the Percent Better	than Standard.													Tile - 3/8 in.
C2. RESULTS FOR 'ABO	OVE CODE' QUALIFICAT	TIONS ¹						Floor over Cr	awlspace	ExteriorFloor	2831	NA	0	NA	U-Factor: 0.163	N	Concrete - 80	r - 3 1/2 in. 30 lb/ft3 - 4 in.
☐ This project is pursuing	g CalGreen Tier 1			□Th	is project is pursuing CalGree	n Tier 2												tile - 1 in. pard - 1/2 in.
	scellaneous Energy Comp	ponent	Standard Desig		Proposed Design (TDV)		Margin (TDV) ¹	Int Wa	all	InteriorWall	1600	Metal	0	NA	U-Factor: 0.344	N Me	etal framed wall,	, 16in. OC, 3.5in., R-0 pard - 1/2 in.
Receptacle Process				77.44	/	7.44		¹ Status: N - New, A – Altered,	E – Existing									414 1/2 111.
Other Ltg								G4. OPAQUE DOOR	SUMMARY									
Process Motors									1				2				3	
OMPLIANCE TOTAL PLU		IPONENTS liance with programs OTHER TH	HΔN Title 24 Part	366.72	32	7.69	39.0 (10.6%)	А	Assembly Name			Ove	erall U-factor				Statu	us ¹
Notes. This tubic is as	to document comp	nunce with programs officer in	TAN THE 24 TUTE	. о, іј арріісавіс.					Door				0.700				N	
Project Name:	Glendale USD Glenoak	s ES - ClassR 101-203		NRCC-PRF-01-E	Page 3 of 19													
Project Address:	2015 E Glenoaks Blvd (Calculation Date/	Time: 17:45, Tue, Mar 16,	2021		G5. FENESTRATION	ASSEMBLY SUMI	MARY 2		2		Δ		E	6 7	8 9
Input File Name:	AMS Glenoaks ES Class	R Bldg.cibd19						Fenestration Assemb	oly Name / Tag	Fenestration Type / Product	t Type /	tification Mathe	- d1	<u> </u>	thad A		verall Overal	1 0
C3. ENERGY USE SUM	MARY	A 1 . 2	D	ion City	Sand In the state	B 15	sing the state of	or I.D.		Frame Type		tification Metho	,u 	Assembly Me	u A	U-f	factor SHGC	VT 👢
Energy	Component	Standard Design Site (MWh)	Proposed Des (MWh)			Proposed Design S (MBtu)	Site Margin (MBtu)	Window	ıs	VerticalFenestration FixedWindow		NFRC Rated		Manufactur	red	389 0	0.42 0.28	0.34 N
<u> </u>	ce Heating				29.1	103.2	-74.1			N/A								
·	ce Cooling door Fans	13.3	8.4 15.6	4.9 7.3				Project Name:	Glendale USD) Glenoaks ES - ClassR 101-20)3		NRCC-P	PRF-01-E	Page 6 of 19			
	t Rejection							Project Address:		aks Blvd Glendale 91206			Calcula	tion Date/Time	e: 17:45, Tue, M	1ar 16, 2021		
	ips & Misc.							Input File Name:	AMS Glenoak	s ES ClassR Bldg.cibd19								
	tic Hot Water or Lighting	 5.5	2.5	3.0	41.7	41.7	0.0	G5. FENESTRATION	ASSEMBLY SUM									
	or Lighting bliance Total	41.7	2.5		70.8	144.9	-74.1	1 Fenestration Assem	bly Name / Tag	2 Fenestration Type / Produc	ct Type /	3		4		5 0	6 7 Overall Overa	8 9
Re	eceptacle	15.0	15.0					or I.D		Frame Type	Ce	rtification Meth	od¹	Assembly M	ethod #	lroatt4 l	-factor SHG0	
	Process							NanaW	/all	VerticalFenestration GlazedDoor	1	NFRC Rated		Manufactu	ıred	378	0.35 0.19	9 0.43 N
	ther Ltg ess Motors									N/A	4-6 11 11		17-11					
	TOTAL	56.7	41.5		70.8	144.9	-74.1	of verification. Site-built fene	estration values are calcu	NFRC Label Certificate or use the CEC ulated per Nonresidential Appendix I			ı ıable 110.6-B. C	enter of Glass (CO.	ப) values are for the gl	ass-only, determin	ed by the manufactu	ırer, and are shown for ease
C4. UNMET LOAD HOL	URS		_					² Status: N - New, A - Altered										
This Section Does Not Ap								G6. OVERHANG DE	1AIL5	Т	2	<u> </u>	3	T	4		5	6
						,			Fenestration Tag/	/ID	Orientation		pth(ft.)	_	m Bottom of Sill to	O Diake F	Extent(ft)	Left Extent(ft)
D. EXCEPTIONAL CONI		ttance must be listed in the Cool R	Roof Rating Council	database of cortified	products. For projects where	initial reflectance is used	ed, the initial							Ov	rerhang(ft)			
reflectance must be liste	ed, and the aged reflectar	nce is calculated by the software p	rogram and used ir	n the compliance mod	el.	ai renectance is use	in mual		CL000003_W-1-W		South South		8.0		9		3.0	3.0
The building does not inc	clude service water heat	ng. Verify that service water heati	ng is not required a	and is not included in	the design.				CL000003_W-1-W		South		8.0		5.6		3.0	3.0
E. HERS VERIFICATION	N								CL000003_W1-W		North		2.0		6	_	0.0	0.0
This Section Does Not Ap	oply								CL000003_W1-W		North South		8.0		6 11		3.0	3.0
F. ADDITIONAL REMA	RKS						1	<u> </u>	CL000006_W-1-W		South		8.0		9		3.0	3.0
This Section Does Not Ap									CL000006_W-1-W	V2	South		8.0		5.6		3.0	3.0
-								1	CL000006_W1-W	,o	North	I	2.0		•	1	0.0	0.0

CL000006_W1-W0

CL000006_W1-W1

CL000000_W-1-W1

CL000000_W-1-W2

CL000000_W-1-W3

CL000000_W1-W0

CL000000_W1-W1

CL000001_W-1-W0

CL000001_W-1-W1

North

North

South

South

North

North

2.0

2.0

8.0

8.0

2.0

2.0

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6

11

9

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6

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3.0

G6. OVERHANG DETAILS											
1	2	3	4	5	6						
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)						
CL000001_W-1-W3	South	8.0	9	3.0	3.0						
CL000001_W1-W0	North	2.0	6	0.0	0.0						
CL000001_W1-W1	North	2.0	6	0.0	0.0						
CL000009_W-1-W0	South	8.0	11	3.0	3.0						
CL000009_W-1-W1	South	8.0	5.6	3.0	3.0						
CL000009_W-1-W3	South	8.0	9	3.0	3.0						
CL000009_W1-W0	North	2.0	6	0.0	0.0						
CL000009_W1-W1	North	2.0	6	0.0	0.0						
CL000008_W-1-W0	South	8.0	11	3.0	3.0						
		†			†						

8.0

8.0

2.0

2.0

NRCC-PRF-01-E

Calculation Date/Time:

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9

AFUE-81.0

AFUE-81.0

17:45, Tue, Mar 16, 2021

3.0

3.0

0.0

0.0

3.0

3.0

0.0

0.0

SEER-16.00 /

EER-12.40 SEER-16.00 /

EER-12.40

G7. FIN DETAILS

Input File Name:

This Section Does Not Apply

Glendale USD Glenoaks ES - ClassR 101-203 NRCC-PRF-01-E Page 8 of 19 Project Name: Calculation Date/Time: 17:45, Tue, Mar 16, 2021 Project Address: 2015 E Glenoaks Blvd Glendale 91206 AMS Glenoaks ES ClassR Bldg.cibd19 Input File Name:

South

South

North

North

H. HVAC SYSTEM SUMMARY

CL000008_W-1-W1

CL000008_W-1-W3

CL000008_W1-W0

CL000008_W1-W1

Glendale USD Glenoaks ES - ClassR 101-203 2015 E Glenoaks Blvd Glendale 91206

AMS Glenoaks ES ClassR Bldg.cibd19

	H1. DRY SYSTEM EQU	JIPMENT (furnaces, air ha	ndling u	nits, heat pumps, VRI	, economizers etc.)				
			С	Pry System Equipment ¹ (Fan & Economizer in	fo included below in 1	「able N)			
ĺ	1	2	3	4	5	6	7	8	9	10
					Heati		Cooling			
	Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	atus ⁵

¹ Status: N - New, A — Altered, E — Existing

AC-7 - AC-11_5T SZVAVAC (Packaged3Phase)

AC-1 - AC-5_5T

H2. FAN SYSTEMS	SUMMARY ¹											
1	1 2 3		4	5	6	7	8	9	10	11	12	13
	System Type	Design OA		Su	pply Fan				Return Fan		Economizer Type	Sta
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	ВНР	Watts	Control	CFM	ВНР	Watts	Control	(if present)	atus ⁵
AC-1 - AC-5_5T	SZVAVAC	359	2000	1.900	1556.7	VariableSpeedDri ve	NA	NA	NA	NA	NoEconomizer	N
AC-7 - AC-11_5T	SZVAVAC	359	2000	1.900	1556.7	VariableSpeedDri ve	NA	NA	NA	NA	NoEconomizer	N

H3. EXHAUST FAN SUMMARY

¹ Status: N - New, A – Altered, E – Existing

This Section Does Not Apply

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

SZVAVAC (Packaged3Phase)

This Section Does Not Apply

Project Name:	Glendale USD Glenoaks ES - ClassR 101-203	NRCC-PRF-01-E	Page 9 of 19
Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
Input File Name:	AMS Glenoaks ES ClassR Bldg.cibd19		

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6		
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls		
AC-1 - AC-5_5T	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control		
AC-7 - AC-11_5T No Optimum Start		No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control		
Notes: This table includes controls related	to the performance path only. For p	projects using the prescriptive path,	mandatory and prescriptive controls requi	rements are documented on the NRCC-MCI	H-E.		

H6. MECHANICAL VENTILATION

Does the Project include Zonal Systems?

1	2	3	4	5	6	/	8	9
			Mecha	nical Ventilatio	n		`	DCV or Occupan
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	Sensor Controls or Both
Zn_F1_Classrooms	Education - Classrooms (ages 9-18)	0	70.76	0	1076	0	2831	NA
Zn_F2_Classrooms	Education - Classrooms (ages 9-18)	0	70.76	0	1076	0	2831	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)

┩	Į	H7. ZONAL SYSTEM AT	ND TERMINAL UNIT	SUMMARY									
1		1	2	3	4	5	6	7	8	9	10	11	12
1		System ID	Zone Name	System Type	Rated C (kBt	Capacity tuh)		Airflow (cfm)			Fa	ın	
]		System is	Zone Name	Зузтені туре	Heating	Cooling	Design	Min.	Min. Ratio	ВНР	Watts	Cycles	ECM Motor
4	ſ	AC-1 - AC-5 5T TU	Zn F1 Classrooms	VAVNoReheatBox	NA	NA	2000	1000	0.50	NA	NA	NA	



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SET NAME

(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS **ELEMENTARY SCHOOL**



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

	REVISIONS
\triangle	
2	
\triangle	
4	
DRAWN BY:	АН
SCALE:	AS NOTED
DATE:	03/15/21
PROJECT NO:	1613-20

ENERGY CALCULATIONS

SHEET NUMBER:

SHEET TITLE:

1/2021 10/0 BID

			_				_	-			_		_	_		
Project No	AMS Glenoaks ES ClassR Bldg,clibd19 STEM AND TERMINAL UNIT SUMMARY 2 3 4 5 6 7 8 9 10 11 12															
Project Name: Project Address:										·/Time:	<u> </u>		021			
Input File Name:				_						,						
H7. ZONAL SYST	EM AND	TERMINAL UNIT	SUMMARY		,				,							
1		2	3		4 5		6			7		8	9	10	11	12
						'			Airflo	w (cfm)				Fan		
System ID		Zone Name	System Type			ng	Design			Min.			ВНР	Watts	Cycles	
AC-7 - AC-11_5T	Γ_TU Zr	n_F2_Classrooms	VAVNoReheat	Вох	NA NA		2000			1000	١	0.50	NA	NA	NA	
H8. EVAPORATI	VE COOLE	R SUMMARY														
This Section Does	Not Apply						,				,					
I. DOMESTIC/SE	RVICE HC	OT WATER SYSTEM	и SUMMARY													
I1 DUW FOLUD	MENT CIT	MANAADV						,		,						
This Section Does																
		,														
This Section Does			DETAILS													
IZ SOLAR HOTA	MATED LI	EATING SUNANA	DV	,	-		,		,			,			,	
This Section Does			(
This section boes	ног Арргу															
K. INDOOR LIGH	ITING SUI	MMARY														
Project Name:	GI	endale USD Glenoa	aks ES - ClassR 10	01-203				NRCC-	-PRF-01-E		Page 11 of	19				
Project Address:	20)15 E Glenoaks Blvc	d Glendale 91206	6		Calculation Date/Ti			e/Time:	/Time: 17:45, Tue, Mar 16, 2021						
Input File Name:	AI	MS Glenoaks ES Cla	ssR Bldg.cibd19													
K1. INDOOR CO	NDITION	ED LIGHTING GEN	NERAL INFO													
1		2			3			4				5				nfirmed
		1									Additio	nal (Custo	m) Allov	wance	Pass	Faii
Occupancy 1	Гуре ¹	Conditioned FI (ft²)	oor Area ²		Lighting Powe Watts)	r	Lighting Cor (Wa	ntrol (atts)	Credits -	Area (Category Foot (Watts)	notes	Tailore	d Method (Watt	s) 🗆	
Classroom, Lectur Vocational Areas	e, Training	5,662	2		2,400		(0			0			0		
Build	ding Totals	: 5,662	2		2,400		(0			0			0		
See Table 140.6-C See NRCC-LTI-01-E for Lighting information fo		d spaces ces modeled is not includ	ded in the table													
K2. INDOOR CO	NDITIONI	ED LIGHTING SCH	IEDULE													
Luminaire Schedu	ıle (include	es all permanent ins	stalled lighting ir	ו												
conditioned space offices)	e, and port	able lighting over 0	.3 w/ft² in					Inst	talled Wat	ts (Cond	litioned)				Con	firmed
Name or Item	Tag	omplete Luminaire 3-lamp fluorescent one dimmable ele	troffer, F32T8,		ts per luminai	re	How Watt	lt	Accordin §130.0	g to	Total Nu Lumina		ı	nstalled Watts	Pass	Fail
2x4 VTLED		Lithonia 2VTL	4 or equal		50		No		Yes		48			2,400		
If lighting power densit	ties were usea	l in the compliance mode	el Building Departmei	nts will need	d to check prescript	ive form:	s for Luminaire S	Schedul	e details.							
		ED LIGHTING COM						_								
Lighting Conf		s Schedule (include ompliance credit pe				oned s	pace for		(Control (Credit Calcula	tion		√ If Acceptance		irmed
Location in Building		ncy Type (must me nents of Table 140.6	Control (i	i.e., partia	on of Lighting al on occupanc dimming, etc.)	Sy	# of Units		Watts of Controlled Lighting	А	Power djustment Factor	Control (Watt		Test Required	Pass	Fail
Classroom 101		om, Lecture, Trainir ocational Areas	ng, none s		- none specifie - none specifie ecified -		1			0.00	00.000.000.0	0		Х		
Classroom 101		om, Lecture, Trainir ocational Areas	ng, none s		- none specifie - none specifie ecified -		1			0.00	00.000.000.0	0		Х		
Project Name:		Glendale USD Glend	oaks ES - ClassR 1	101-203				NRC	C-PRF-01-E		Page 12 o	f 19				
Project Address:		2015 E Glenoaks Blv						Calcı	ulation Dat	te/Time:	17:45, Tue	e, Mar 16, 2	2021			
Input File Name:	: [/	AMS Glenoaks ES Cl	lassR Bldg.cibd19	9					_			_				
		NED LIGHTING CO												_		
Lighting Co		ts Schedule (includ				tioned	space for			Control	Credit Calcul	ation			Cor	nfirmed

Project Name:	Glendale USD Glenoaks ES	- ClassR 101-203		NRCC-PRF-01-E	Page 12 of	19				
Project Address:	2015 E Glenoaks Blvd Glen	dale 91206		Calculation Date/Tin	ne: 17:45, Tue,	Mar 16, 2021				
nput File Name:	AMS Glenoaks ES ClassR Bl	dg.cibd19								
K3. INDOOR CO	NDITIONED LIGHTING CONTRO	L CREDITS								
Lighting Con	·	ghting controls installed in condition 0.6(a)2 and Table 140.6-A)	ed space for	Cont	rol Credit Calcula	tion	416.0	Confirmed		
Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts	V If Acceptance Test Required	Pass	Fail	
Classroom 102	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 102	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 103	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 103	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 201	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 201	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 202	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 202	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 203	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х			
Classroom 203	Classroom, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	х			

Project Name:	Glendale I	SD Glenoaks ES - ClassR 101-20	3		NRC	C-PRF-01-E	Pa	nge 13 c	of 19	
Project Address:		noaks Blvd Glendale 91206				ulation Date/Tin			ie, Mar 16, 20	21
Input File Name:		aks ES ClassR Bldg.cibd19			Calc		110.	. , iu	10, 20	
		FING MANDATORY LIGHTIN			1					
Lighting Control Cre		cludes all lighting controls insta datory requirements per §130.	1)	oned space to	Stan	dards Complian	ice (√ all	that ap	oply or "E" if e	xemı
Location in	nting Control r, dimming, control, etc.)	# of Units	§130.1(a)	§130.1(b)	§130.	.1(c)	§130.1(d)	§1		
Classroo	om 101	Occupancy Ser	isor	1	NA	NA	٧	'	NA	
Classroo	om 102	Occupancy Ser	nsor	1	NA	NA	√	,	NA	
Classroo	om 103	Occupancy Ser	isor	1	NA	NA	√	,	NA	
Classroo	om 201	Occupancy Ser	nsor	1	NA	NA	√	'	NA	
Classroo	om 202	Occupancy Ser	isor	1	NA	NA	٧	′	NA	
Classroo	om 203	Occupancy Ser	isor	1	NA	NA	V	,	NA	
General lighting pow	HOD CONDITION or (see Table D) or from special f	ulti Level; §130.1(c) = Auto Shut-Off; §13 DNED LIGHTING POWER AL unction areas (see Table E) e G)								То
General lighting pow General lighting pow	HOD CONDITION or (see Table D) or from special fose it" (See Table TING POWER	ONED LIGHTING POWER AL								То
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No	er (see Table D) er from special f ose it" (See Table TING POWER t Apply	ONED LIGHTING POWER AL								Tot
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No	er (see Table D) er from special f lose it" (See Table TING POWER t Apply	Unction areas (see Table E) e G)		ce Value Ro			d LPD	Floo	or Area (ft²)	
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA	er (see Table D) er from special f lose it" (See Table TING POWER t Apply TING FROM SE	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area	LOWANCE SU	ce Value Ro	O CHECKLIS	Tio.		Floo	or Area (ft²)	
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA	er (see Table D) er from special f lose it" (See Table TING POWER t Apply TING FROM SE	Unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area	Illuminan (LU	ce Value Ro	om Cavity Ra	tio Allowed		Floo		
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA	er (see Table D) er from special f ose it" (See Table TING POWER t Apply TING FROM SF Pr pecial Function Areas	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area	Illuminan (LU	ce Value Ro	om Cavity Ra (Table G)	tio Allowed	`	Floor	NA	Tot
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA Note: Tailored Method for S	er (see Table D) er from special f lose it" (See Table TING POWER t Apply TING FROM SF Pr Decial Function Areas	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area NA is not currently implemented	Illuminan (LU	ce Value Ro	om Cavity Ra (Table G)	tio Allowed	Pa	nge 14 c	NA	Α
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA Note: Tailored Method for S Project Name:	er (see Table D) er from special f ose it" (See Tabl TING POWER t Apply TING FROM SF Pr pecial Function Areas Glendale U 2015 E Gle	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area NA is not currently implemented SD Glenoaks ES - ClassR 101-20	Illuminan (LU	ce Value Ro	om Cavity Ra (Table G)	tio Allowed	Pa	nge 14 c	NA of 19	Α
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA Note: Tailored Method for S Project Name: Project Address:	er (see Table D) er from special f lose it" (See Table TING POWER t Apply TING FROM SF Pr Decial Function Areas Glendale U 2015 E Gle AMS Glend	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area NA is not currently implemented SD Glenoaks ES - ClassR 101-20 noaks Blvd Glendale 91206	Illuminan (LU	ce Value Ro	om Cavity Ra (Table G)	tio Allowed	Pa	nge 14 c	NA of 19	Α
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA Note: Tailored Method for S Project Name: Project Address: Input File Name:	er (see Table D) er from special f lose it" (See Table TING POWER t Apply TING FROM SF Pr Decial Function Areas Glendale U 2015 E Gle AMS Glend	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area NA is not currently implemented SD Glenoaks ES - ClassR 101-20 noaks Blvd Glendale 91206	Illuminan (LU	ce Value Ro X)	om Cavity Ra (Table G)	tio Allowed	Pa	nge 14 c	NA of 19	Α
General lighting pow General lighting pow Additional "use it or K6. GENERAL LIGH This Section Does No K7. GENERAL LIGH Room Number NA Note: Tailored Method for S Project Name: Project Address: Input File Name:	HOD CONDITION TING POWER TING FROM SE TING FROM SE Pr Decial Function Areas Glendale U 2015 E Gle AMS Glence RATIO	DNED LIGHTING POWER ALL unction areas (see Table E) e G) ECIAL FUNCTION AREA mary Function Area NA is not currently implemented SD Glenoaks ES - ClassR 101-20 noaks Blvd Glendale 91206	Illuminan (LU	ce Value Ro X)	om Cavity Ra (Table G) NA NRC Calc	tio Allowed	Pa ne: 17	age 14 c	NA of 19	Α

Daama Nicosalaan	D*.		Illumin	ance Value	Room Cav	ity Ratio	Allannadio	S = 1 A (C(2)	A II al 18/	"	IIIIIII	u
Room Number	Prir	mary Function Area	((LUX)	(Table	e G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Pass	1	Fai
NA		NA		NA	N/	1	NA	NA	NA			
Note: Tailored Method for Spo	ecial Function Areas i	s not currently implemented	•		•	•				•		
Project Name:	Glendale US	D Glenoaks ES - ClassR 101-20	 D3			NRCC-PRI	01-E	Page 14 of 19				_
Project Address:	2015 E Glen	oaks Blvd Glendale 91206				Calculatio	on Date/Time:	17:45, Tue, Mar 16, 202	1			_
Input File Name:	AMS Glenoa	aks ES ClassR Bldg.cibd19										
K8. ROOM CAVITY I	RATIO											_
				Rect	angular Spa	ices						_
Room Number	Ta	sk/Activity Description	Roon	n Length (ft)		Room Wid	th (ft)	coom Cavity Height (ft)	RCR	(Confi	rme
	10	Signetivity Description	Koon	ii Lengtii (it)		TOOM WIG	cii (ic)	Com cavity rieight (it)			Pass	F
NA		NA		NA		NA		NA	NA			
Non-Rectangular Sp	aces											
This Section Does Not	Apply											
Note: All applicable spaces ar	e listed under the No	n-Rectangular Spaces table										
		.="										
K9. ADDITIONAL "U	SE II OR LOSE								1	1 -		_
1.		2.			3.			4.	Allowed Watts		nfirmo	<u></u>
Wall Disp	lay	Combined Floor Display an Lighting	nd Task	Combined O Eff	rnamental fects Lightir		Very \	aluable Merchandise	Allowed Watts	Pass		Fail
0		0			0			0	0			
K10. Wall Display												_
This Section Does Not	Annly											—
- This section bees the					,							
K11. Floor Display a	nd Task Lightii	ng										
This Section Does Not	Apply											
												_
		pecial Effects Lighting										
This Section Does Not	Apply											
K13. Very Valuable	Merchandise											_
This Section Does Not		,										_
	1 1: 7										—	

	Project Name:	Glendale USD Glenoaks ES - ClassR 101-203	NRCC-PRF-01-E	Page 15 of 19
	Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
-	Input File Name:	AMS Glenoaks ES ClassR Bldg.cibd19		
\neg	L. DECLARATION OF RE	QUIRED CERTIFICATES OF INSTALLATION		
		ctions shall be made by Documentation Author to indicate which Certific uments bust be retained and provided to the building inspector during c	-	

https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	l '''	eld ector
				Pass	Fail
Envelope	X		NRCI-ENV-01-E - Must be submitted for all buildings		
Mechanical	\boxtimes		NRCI-MCH-01-E - Must be submitted for all buildings		
	\boxtimes		NRCI-PLB-01-E - Must be submitted for all buildings		
		\boxtimes	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance		
Plumbing		\boxtimes	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance		
		\boxtimes	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application		
		\boxtimes	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application		
		\boxtimes	NRCI-STH-01-E - Must be submitted for solar hot water heating systems		
	X		NRCI-LTI-01-E - Must be submitted for all buildings		
	\boxtimes		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance		
Indoor Lighting		\boxtimes	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance		
		\boxtimes	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance		
		\boxtimes	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance		
Covered Process		\boxtimes	NRCI-PRC-01-E - Must be submitted for all Covered Processes		

	Project Name:	Glendale USD Glenoaks ES - ClassR 101-203	NRCC-PRF-01-E	Page 16 of 19
Ī	Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
ĺ	Input File Name:	AMS Glenoaks ES ClassR Bldg.cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Acceptance -

Required?

No | | | |

No 🔲 🗆

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Fie Inspe	eld ector
				Pass	Fail
Envelope			NRCA-ENV-02-F - NRFC label verification for fenestration		
Livelope			NRCA-ENV-03-F - Daylighting Design PAFs		
	\boxtimes		NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls		
Indoor Lighting	\square		NRCA-LTI-03-A - Automatic Daylight Controls		
muoor Lighting		\boxtimes	NRCA-LTI-04-A - Demand Responsive Lighting Controls		
		\boxtimes	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)		
		\boxtimes	NRCA-PRC-02-F - Kitchen Exhaust		
		\boxtimes	NRCA-PRC-03-F - Garage Exhaust		
Covered Process		\boxtimes	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls		
Covered Process		\boxtimes	NRCA-PRC-13-F –Escalator and Moving Walkways Speed Control		
		\boxtimes	NRCA-PRC-14-F – Lab Exhaust Ventilation System		
		\boxtimes	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System		

Project Name:	Glendale USD Glenoaks ES - ClassR 101-203	NRCC-PRF-01-E	Page 17 of 19
Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
Input File Name:	AMS Glenoaks ES ClassR Bldg.cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for ompliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	YES NO Form/Title		Insp	rspecto	
				Pass	Fail	
	⊠		NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap			
	\boxtimes		NRCA-MCH-03-A Constant Volume Single Zone HVAC		Ī	
			NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required			
			NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only			
			NRCA-MCH-05-A Air Economizer Controls			
		⊠	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints			
×	\boxtimes		NRCA-MCH-07-A Supply Fan Variable Flow Controls			
			NRCA-MCH-08-A Valve Leakage Test			
Mechanical			NRCA-MCH-09-A Supply Water Temperature Reset Controls			
			NRCA-MCH-10-A Hydronic System Variable Flow Controls		T	
			NRCA-MCH-11-A Automatic Demand Shed Controls		T	
			NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		T	
			NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		T	
			NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance		T	
		\boxtimes	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance			
			NRCA-MCH-16-A Supply Air Temperature Reset Controls			
			NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
			NRCA-MCH-18 Energy Management Control Systems			
		\boxtimes	NRCA-MCH-19 Occupancy Sensor Controls			

Project Name:	Glendale USD Glenoaks ES - ClassR 101-203	NRCC-PRF-01-E	Page 18 of 19
Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
Input File Name:	AMS Glenoaks ES ClassR Bldg.cibd19		
N. DECLARATION OF R	EQUIRED CERTIFICATES OF VERIFICATION	,	

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	l	eld ector
				Pass	Fail
		X	NRCV-MCH-04-H Duct Leakage Test		
Mechanical		X	NRCV-MCH-24-H Enclosure Air Leakage		
Mechanical	\boxtimes		NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation		
		\boxtimes	NRCV-MCH-32-H Local Mechanical Exhaust		
Plumbing		X	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application		
ridinbing		\boxtimes	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application		

Project Name:	Glendale USD Glenoaks ES - ClassR 101-203		NRCC-PRF-01-E	Page 19 of 19
Project Address:	2015 E Glenoaks Blvd Glendale 91206		Calculation Date/Time:	17:45, Tue, Mar 16, 2021
Input File Name:	AMS Glenoaks ES ClassR Bldg.cibd19			
	AUTHOR'S DECLARATION STATEMENT cate of Compliance documentation is accurate and complete.			
Documentation Auth	nor Name: Hans Marsman, CEA, LEED AP BD+C	Signatu	•••	Digitally signed by Hans
Company: Marsman	Consulting	Signatu	re:	Marsman, LEED AP, CEA
Address: 1150 J Stree	et #409	Signatu	re Date: 2021-03-16	Hars Marsman NR16-09-20024 17:48:33-07'00'
	iego CA 92101	CEA/ HI	RS Certification Identifica	tion (if applicable): NR-16-09-20024
City/State/Zip: San D				
City/State/Zip: San D Phone: (619) 573-63	74			

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.

	<u> </u>	
Responsible Envelope Designer Name: Randall P Cavannagh	Signatura	
Company: American Modular Systems Gen7 Schools	Signature:	
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Engineer	License #: C12631
Responsible Lighting Designer Name: Randall P Cavannagh	Signatura	
Company: American Modular Systems Gen7 Schools	Signature:	
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Engineer	License #: C12631
Responsible Mechanical Designer Name: Randall P Cavannagh	Signatura	
Company: American Modular Systems Gen7 Schools	Signature:	
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Engineer	License #: C12631



787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

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(2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME

GLENDALE USD **GLENOAKS ELEMENTARY SCHOOL**



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

2	
<u>_3</u>	
4	
DRAWN BY:	АН
SCALE:	AS NOTED
DATE:	03/15/21
PROJECT NO:	1613-20
SHEET TITLE:	

ENERGY CALCULATIONS

SHEET NUMBER:

1/2021 10/0 BID SE

	ect Name: Glenda	e USD Gle	noaks F	6 - Office Wing		I	NRCC-PRF-01-E		Page 1 of 21			
roje				ndale 91206		-	Calculation Date		17:45, Tue, N	Mar 16, 2021		
ıpu ¹	t File Name: AMS GI	noaks ES	OfficeBl	dg.cibd19						·		
. G	ENERAL INFORMATION											
1.	Project Location (city)			Glendale		8.	Standards Versi	on		Compliance2	019	
2.	CA Zip Code			91206		9.	Compliance Sof	tware (ve	rsion)	CBECC-Com 2	2019.1.3	
3.	Climate Zone			9			Weather File			BURBANK-GL	ENDALE_722880_CZ2010	D.epw
4.	Total Conditioned Floor Are			4,794 ft ²			Building Orienta			(N) 13 deg		
5. 6.	Total Unconditioned Floor			743 ft ²			Permitted Scop Building Type(s)			NewComplet Nonresidenti		
7.	Total # of dwelling units	Above Gi		0			Gas Type	1		NaturalGas	aı	
					ļ.	! 	71					
	ROJECT SUMMARY											
	e Instructions: Table B shows nit application.	hich buil	ding com	ponents are included in th	e performance calcul	ation.	If indicated as r	not includ	ed, the project	t must show c	ompliance prescriptively i	f within
		Buildin	g Compo	nents Complying via Perfo	rmance				Building	g Components	s Complying Prescriptively	/
		⊠	Perforn		. Commonatal		Performance				ts are ONLY eligible for pro	
nve	lope (see Table G)		Not Inc	Covered Process Sluded Kitchens	: Commerciai		Not Included	the sc	ope of the per	mit applicatio	ented on the NRCC form l n (i.e. compliance will no	
			 						NRCC-PRF-E).		140.6	
1ecł	nanical (see Table H)		Perforn Not Inc	Covered Process	: Computer Rooms		Performance Not Included		r Lighting (Und		140.6 NRCC-LTI-E NRCC-LTO-E	
			Perforn	nance			_	_	ighting §140.8		NRCC -LTS-E	
om	estic Hot Water (see Table I)		Not Inc	Covered Process	: Laboratory Exhaust		Not Included				ory Measures	
											sioning, solar ready, eleve	
ight able	ing (Indoor Conditioned, see		Perforn	nance				listed	if applicable (i		atory and should on the Ne will not be shown on the	
auie	N		Not Inc	luded					<i>PRF-E.)</i> ical Power Dist	ribution C110	0.11 NRCC-ELC-E is	required
olar	Thermal Water Heating (see		Perforn						nissioning S120		NRCC-CXR-E i	•
able			Not Inc	luded					Ready S110.10		NRCC-SRA-E i.	
			·i	•							'	
Pro	ject Name: Glend	le USD G	lenoaks E	ES - Office Wing			NRCC-PRF-01-	E	Page 2 of 2	1		
Pro	ject Address: 2015	Glenoak	s Blvd Gle	endale 91206			Calculation Da	te/Time:	17:45, Tue,	Mar 16, 2021		
Inp	ut File Name: AMS (lenoaks E	S OfficeE	Bldg.cibd19								
C1.	COMPLIANCE RESULTS FO	R PERFO	DRMAN	CE COMPONENTS (Annu	ual TDV Energy Use	, kBt	u/ft ²-yr)					
					СОМ	PH	FS					
		rgy Comp	onont		Standard D			Dro	posed Design	(TD\()	Compliance Marg	in /TDV/)1
Spa	ce Heating	igy Comp	onent		Standard D	esigii	8.63	PIC	pposeu Design	31.52	·	-22.8
	ce Cooling						114.53			83.49	<u> </u>	31.0
Ind	oor Fans						138.47			113.47	,	25.0
Hea	t Rejection											-
	nps & Misc.											
	nestic Hot Water oor Lighting						12.73 31.32			36.37 15.55	ļ	-23.6- 15.7
	IERGY STANDARDS	COM	DIΙΔΝ	ICE TOTAL			305.68			280.40	<u> </u>	28 (8.3%
	otes: The number in paren				in column 4 renres	ents t		tter than	Standard	200.40	25.	20 (0.370
	Ties. The namber in paren	110313 101	lowing t	The Compliance Wargin		circs c	THE PERCENT BE	tter triair	Starraara.			
C2.	RESULTS FOR 'ABOVE CO	DE' QUA	LIFICATI	ONS ¹								
_	his project is pursuing CalGro				r				ject is pursuin		1	
Ī	Miscellane	ous Energ	y Compo	onent	Standard D	esign	` '	Pro	posed Design		Compliance Marg	in (TDV)¹
	eptacle cess						86.32			86.32	· <u> </u> .	-
Rec	er Ltg						6.05			3.63	;	2.4
Rec Pro	cess Motors											-
Rec Pro	MPLIANCE TOTAL PLUS MISC	LLANEOU	JS COMP	PONENTS			398.05			370.35	3	27.7 (7.0%
Rec Prod Oth Prod	otes: This table is used to a	ocument	t compli	ance with programs OTF	HER THAN Title 24 I	Part 6	, if applicable.					
Rec Prod Oth Prod												
Rec Prod Oth Prod			enoaks E	S - Office Wing			NRCC-PRF-01-E		Page 3 of 21	<u> </u>		
Rec Prod Oth Prod CON	ect Name: Glenda	e USD Gl		ndale 91206			Calculation Dat	e/Time:	17:45, Tue,	Mar 16, 2021		
Rec Prod Oth Prod Proj	ect Address: 2015 E	Glenoaks										
Rec Prod Oth Prod Proj	ect Address: 2015 E	Glenoaks		ldg.cibd19								
Rec Projection	ect Address: 2015 E	Glenoaks		ldg.cibd19				,				
Rec Projection	ect Address: 2015 E at File Name: AMS G ENERGY USE SUMMARY	Glenoaks enoaks ES		Standard Design S		_		-	Standard Des	_	Proposed Design Site	Margin
Rec Proje	ect Address: 2015 E It File Name: AMS G ENERGY USE SUMMARY Energy Compo	Glenoaks enoaks Es ent		Standard Design S (MWh)	(MV	/h)	(MW	/h)	(MBtu	_	(MBtu)	(MBtu)
Rec Prod Oth Prod CON Proje	ect Address: 2015 E It File Name: AMS G ENERGY USE SUMMARY Energy Compo Space Heatin	Glenoaks enoaks Es ent		Standard Design S (MWh)	(MV	/h) ¯	(MW	/h)	(MBtu) 20.2	_	(MBtu) 74.9	(MBtu) -54.7
Rec Prod Oth Prod CON Proje	ect Address: 2015 E It File Name: AMS G ENERGY USE SUMMARY Energy Compo	Glenoaks enoaks Es ent		Standard Design S (MWh)	(MV	/ h)	(MW	/h)	(MBtu	_	(MBtu)	(MBtu)
Rec Prod Oth Prod CON Proje	ect Address: 2015 E It File Name: AMS G ENERGY USE SUMMARY Energy Compo Space Heatin Space Coolin	Glenoaks enoaks Es ent		Standard Design S (MWh) 11.9	0.: 7.0	/h) L 5	(MW	/h) 3 2	20.2 	_	(MBtu) 74.9 	-54.7
Rec Prod Oth Prod CON Proje Proje	ect Address: 2015 E It File Name: AMS G ENERGY USE SUMMARY Energy Compo Space Heatin Space Coolin Indoor Fans	ent g		Standard Design S (MWh) 11.9 21.7	0 7 15.	/h) L	(MW 4.3 6.2	/h) 3	20.2 	_	74.9 	-54.7
Rec Prod Oth Prod 2 No	ect Address: 2015 E It File Name: AMS G ENERGY USE SUMMARY Energy Compo Space Heatin Space Coolir Indoor Fans Heat Rejection	ent g g ater		Standard Design S (MWh) 11.9 21.7	0.: 7.: 15.	/h)	(MW 4.3 6.2	7 h) 3 2	20.2	_	74.9 	-54.7

Project Name:	Glendale USD Glenoal	rs FS - Office Wing	NRCO	:-PRF-01-E	Page 3 of 21		
Project Address:	2015 E Glenoaks Blvd			lation Date/Time:	17:45, Tue, Mar 16, 20)21	
nput File Name:	AMS Glenoaks ES Office			iation Bate, iiiie.	17773, rac, mar 10, 20		
nput i ne riume.	7 TIVIS GICTIOURS ES OTTR	20146.018413					
3. ENERGY USE SU	JMMARY						
Ene	rgy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
S	pace Heating		0.1		20.2	74.9	-54.7
S	pace Cooling	11.9	7.6	4.3			
	Indoor Fans	21.7	15.5	6.2			
Н	eat Rejection						
P	umps & Misc.						
Domestic Hot Water		0.3	6.3	-6.0	29.6		
Indoor Lighting		5.0	2.4	2.6			
Со	mpliance Total	38.9	31.9	7.0	49.8	74.9	-25.1
	Receptacle	14.1	14.1	0.0			
	Process						
	Other Ltg	1.0	0.6	0.4			
Pr	rocess Motors						
	TOTAL	54.0	46.6	7.4	49.8	74.9	-25.1
4. UNMET LOAD H	HOURS						
his Section Does Not							
ns section boes not							
. EXCEPTIONAL CO	ONDITIONS						
he aged solar reflect	ance and aged thermal em	ittance must be listed in the Cool Ro	oof Rating Council database	of certified produ	cts. For projects where ir	nitial reflectance is used, the	initial
eflectance must be li	sted, and the aged reflecta	nce is calculated by the software pr	ogram and used in the com	pliance model.			
. HERS VERIFICATI	ON .						
his Section Does Not							
	,						
ADDITIONAL REN	MARKS						
nis Section Does Not	. A I						

Project Name:	Glendale USD GI	enoaks ES - Office	e Wing			NRCC-	PRF-01-E	Page 4 of 21		
Project Address:		Blvd Glendale 91					ation Date/Tim		16, 20	
nput File Name:	AMS Glenoaks E	S OfficeBldg.cibd1	.9							
G1. ENVELOPE GEN	ERAL INFORMATIO	N (conditioned	spaces only)						
	1		2				3			4
Opaque Surfa	ces & Orientation	Т	otal Gross Sur	face Area	(ft²)	Tot	al Fenestration	n Area (ft²)		Window to Wall Ratio (%)
	North-Fa	acing ¹			800 ft ²			0 ft ²		00.0
	East-Fa	acing ²			1,180 ft ²			380 ft ²		32.2
	South-Fa	acing ³			400 ft ²			0 ft ²		00.0
	West-Fa				1,274 ft ²			200 ft ²		15.7
Poof.		Total			3,654 ft ²			580 ft ²		15.9
Roof 					2,851 ft ²			0 ft ²		00.0
East-Facing is orier South-Facing is orier West-Facing is orie	ented to within 45 ented to within 45 a	degrees of true legrees of true v	south, includ	ing 45°00	0'00" west of	south (SW),	but excluding	g 45°00'00" east of	south ((SE).
JZ. CRNC ROUFING	PRODUCT SUMIMA			1	2		3	4		5
	Assembly Na	me		+	Roof Pitch	Aged S	Solar Reflectar		ittance	
	Ext Roof				Low-Slope		0.63	0.75		78
						•				
G3. OPAQUE SURFA	ACE ASSEMBLY SUN	/IMARY 2		3	4	5		7	8	9
					Framing	Cavity	Continuous	U-Factor / F-Factor		
Surface I	Name	Surface Ty	oe A	rea (ft²)	Туре	R-Value	R-Value	/ C-Factor	Status ¹	Description of Assembly Layers
Ext Ro	oof	Roof		2851	Metal	30	NA	U-Factor: 0.062	N	Metal Standing Seam - 1/16 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Ceiling - 3 1/2 in. Gypsum Board - 1/2 in.
		1 EC 0(!)	14 0			Lunco	DDE 04 F	D 5 624		
Project Name: Project Address:		enoaks ES - Office Blvd Glendale 91					PRF-01-E ation Date/Tim	Page 5 of 21 ie: 17:45, Tue, Mar	16 20	21
Input File Name:								27110, 100, 1110.		
	AIVIS Gienoaks E	S OfficeBldg.cibd1	.9							
C2 ODA OUE CUREA			.9							
<u> </u>	ACE ASSEMBLY SUN	/MARY	.9	3		5		7		
1	ACE ASSEMBLY SUN	/IMARY		3	4 Framing	5 Cavity	6 Continuous	7 U-Factor / F-Factor	8 Sta	9
G3. OPAQUE SURFA 1 Surface	ACE ASSEMBLY SUN	/MARY		3 rea (ft²)	4 Framing Type	5 Cavity R-Value		7 U-Factor / F-Factor / C-Factor	∞ Status¹	Description of Assembly Layers
1	ACE ASSEMBLY SUN	/IMARY	pe A		Framing	Cavity	Continuous	U-Factor / F-Factor		Description of Assembly Layers Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in
Surface I	Name	/IMARY 2 Surface Ty	pe A	rea (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹	Description of Assembly Layers Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22
Surface I	Name /all or/Ceiling	AMARY 2 Surface Type Exterior Wa	pe A	rea (ft²)	Framing Type Metal	Cavity R-Value	Continuous R-Value NA	U-Factor / F-Factor / C-Factor U-Factor: 0.153	Status ¹ z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in.
Surface I Ext W	Name Or/Ceiling rawlspace	AMARY 2 Surface Tyl ExteriorWa	oe Ai	rea (ft²) 4451 2851	Framing Type Metal	Cavity R-Value	NA NA	U-Factor / F-Factor / C-Factor U-Factor: 0.153	Status ¹ Z Z Z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in.
Surface I Ext W Interior Floor Floor over Co Int Wall	Name /all pr/Ceiling rawlspace to UC	AMARY 2 Surface Type ExteriorWar InteriorFlo ExteriorFlo	oe An	rea (ft²) 4451 2851	Framing Type Metal Metal	Cavity R-Value 22 19	NA NA	U-Factor / F-Factor / C-Factor U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163	Status ¹ Z Z Z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Gypsum Board - 1/2 in.
Surface I Ext W Interior Floor Floor over Co Int Wall	Name /all pr/Ceiling rawlspace to UC	AMARY 2 Surface Tyl ExteriorWa InteriorFlo ExteriorFlo InteriorWa	oe An	rea (ft²) 4451 2851 2851	Framing Type Metal Metal NA Metal	Cavity R-Value 22 19 0	NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147	Status ¹ z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-1 Metal framed wall, 16in. OC, 3.5in., R-1
Surface I Ext W Interior Floo Floor over Cr Int Wall Int W	Name Vall pr/Ceiling rawlspace to UC Vall	AMARY 2 Surface Tyl ExteriorWa InteriorFlo ExteriorFlo InteriorWa	oe An	rea (ft²) 4451 2851 2851	Framing Type Metal Metal NA Metal	Cavity R-Value 22 19 0	NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147	Status ¹ z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-6.
Surface I Ext W Interior Floo Floor over Cr Int Wall Int W Status: N - New, A - Altered G4. OPAQUE DOOR	Name Name Vall Dor/Ceiling rawlspace to UC Vall V. E - Existing S SUMMARY 1	AMARY 2 Surface Tyl ExteriorWa InteriorFlo ExteriorFlo InteriorWa	oe An	rea (ft²) 4451 2851 2851	Framing Type Metal Metal Metal Metal	22 19 0 19 2	NA NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147	Status ¹ z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-1 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-1 Gypsum Board - 1/2 in.
Surface I Ext W Interior Floo Floor over Cr Int Wall Int W Status: N - New, A - Altered G4. OPAQUE DOOR	Name Name Vall Or/Ceiling rawlspace to UC Vall V. E - Existing SUMMARY 1 Assembly Name	AMARY 2 Surface Tyl ExteriorWa InteriorFlo ExteriorFlo InteriorWa	oe An	rea (ft²) 4451 2851 2851	Framing Type Metal Metal Metal Metal	Cavity R-Value 22 19 0 19 0 2 Overall U-fact	NA NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147	Status ¹ z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-Gypsum Board - 1/2 in.
Surface I Ext W Interior Floo Floor over Cr Int Wall Int W Status: N - New, A - Altered G4. OPAQUE DOOR	Name Name Vall Dor/Ceiling rawlspace to UC Vall V. E - Existing S SUMMARY 1	AMARY 2 Surface Tyl ExteriorWa InteriorFlo ExteriorFlo InteriorWa	oe An	rea (ft²) 4451 2851 2851	Framing Type Metal Metal Metal Metal	22 19 0 19 2	NA NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147	Status ¹ z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-1 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-1 Gypsum Board - 1/2 in.
Surface I Ext W Interior Floor Floor over Cr Int Wall Int W Status: N - New, A - Altered	Name Name Vall Or/Ceiling rawlspace to UC Vall V, E - Existing SUMMARY 1 Assembly Name Door	Surface Type ExteriorWa InteriorFlo InteriorWa InteriorWa	oe A	rea (ft²) 4451 2851 2851	Framing Type Metal Metal Metal Metal	Cavity R-Value 22 19 0 19 0 2 Overall U-fact 0.700	NA NA NA NA NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147 U-Factor: 0.344	Status ¹ z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-6 Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-6 Gypsum Board - 1/2 in.
Surface I Ext W Interior Floo Floor over Cr Int Wall Int W Status: N - New, A - Altered G4. OPAQUE DOOR	Name /all or/Ceiling rawlspace to UC /all /, E - Existing SUMMARY 1 Assembly Name Door Glendale USD Gl	AMARY 2 Surface Tyl ExteriorWa InteriorFlo ExteriorFlo InteriorWa	oe Ai	rea (ft²) 4451 2851 2851	Framing Type Metal Metal Metal Metal	22 19 0 19 0 2 0 2 0 7 0 NRCC-	NA NA NA NA	U-Factor: 0.153 U-Factor: 0.074 U-Factor: 0.163 U-Factor: 0.147 U-Factor: 0.344 Page 6 of 21	Status ¹ z z z z z	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Fiber cement board - 88 lb/ft3 - 1/2 in Metal framed wall, 16in. OC, 7.25in., R-22 Gypsum Board - 1/2 in. Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 7.25in., R-19 Acoustic Tile - 3/8 in. Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in. Gypsum Board - 1/2 in. Metal framed wall, 24in. OC, 5.5in., R-1 Gypsum Board - 1/2 in. Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-Gypsum Board - 1/2 in.

											Gy ———	psum Boar	d - 1/2 in.	
			-											
Project Name:	Glendale US	D Glenoaks ES - Office	Wing			NRCC-P	PRF-01-E	Page 5 of	21					
Project Address:	2015 E Glen	oaks Blvd Glendale 91	206			Calcula	tion Date/Tim	ne: 17:45, Tu	e, Mar 16,	, 2021				
Input File Name:	AMS Glenoa	ks ES OfficeBldg.cibd1	9											
G3. OPAQUE SURFACE	ASSEMBLY :	SUMMARY				-								
1		2	3	4	5	5	6	7		8		9		
Surface Nar	me	Surface Typ	oe Area (1	Framing Type	Cav R-Va	-	Continuous R-Value	U-Factor / F-F / C-Facto	actor 8	Status ¹	Descrip	otion of As	sembly Lay	ers
Ext Wall		ExteriorWa	ıll 445:	L Metal	21	2	NA	U-Factor: 0.:	153 r		er ceme etal frai	ent board -	e felt - 1/8 i 88 lb/ft3 - L6in. OC, 7.2	1/2 in
Interior Floor/C	Ceiling	InteriorFloo	or 285.	L Metal	19	9	NA	U-Factor: 0.0	D74 1	N Me	etal frar	Rubber tile Plywood - med floor, R-19 coustic Tile	1/2 in. 16in. OC, 7.)	25in.,
Floor over Craw	Ispace	ExteriorFlo	or 285:	L NA	С)	NA	U-Factor: 0.:	163	N	Air - Floor - 3 1/2 in. Concrete - 80 lb/ft3 - 4 in. Rubber tile - 1 in.			
Int Wall to U	JC	InteriorWa	II 556	Metal	19	9	NA	U-Factor: 0.	147 1	N Met	al fram	psum Boar ed wall, 24 psum Boar	in. OC, 5.5ir	າ., R-1
Int Wall		InteriorWa	II 3012	2 Metal	С)	NA	U-Factor: 0.3	344 1	N Me	tal fram	psum Boar ied wall, 16 psum Boar	Sin. OC, 3.5i	n., R-(
Status: N - New, A – Altered, E –	Existing	,	· · · · · · · · · · · · · · · · · · ·	· ·				,		·				
G4. OPAQUE DOOR SU	IMMARY													
	1				2	2						3		
Ass	embly Name				Overall	U-facto	or					Status ¹		
	Door				0.7	700						N		
								_						
roject Name:		D Glenoaks ES - Office					PRF-01-E	Page 6 of						
Project Address:	ļ	oaks Blvd Glendale 91				Calcula	tion Date/Tim	ne: 17:45, Tu	e, Mar 16,	, 2021				
nput File Name:	AMS Glenoa	ks ES OfficeBldg.cibd1	9											
35. FENESTRATION AS	SEMBLY SUI	MMARY												
1		2		3			4		5		6	7	8	9
Fenestration Assembly	Name / Tag	Fenestration Type	Product Type /	Certification Mo	ethod ¹		Assembly N	lethod	Area ft	t ² Ov	/erall	Overall	Overall	Statu

NFRC Rated

NFRC Rated

2

Orientation

East

East

East

West

West

East

East

East

West

West

East

East

East

East

East

¹ Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease

Depth(ft.)

8.0

8.0

2.0

2.0

8.0

8.0

8.0

2.0

2.0

8.0

8.0

8.0

8.0

8.0

Frame Type VerticalFenestration

FixedWindow N/A Vertical Fenestration

GlazedDoor

N/A

of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

Fenestration Tag/ID

CL000007_W-1-W0

CL000007_W-1-W1

CL000007_W-1-W2

CL000007_W1-W0

CL000007_W1-W1

CL000002_W-1-W0

CL000002_W-1-W1

CL000002_W-1-W2

CL000002_W1-W0

CL000002_W1-W1

FF000003_W-1-W0

FF000000_W1-W1

FF000001_W-1-W0

CL000005_W-1-W0

CL000005_W-1-W1

or I.D.

Windows

NanaWall

² Status: N - New, A – Altered, E – Existing

G6. OVERHANG DETAILS

Manufactured

Manufactured

Height from Bottom of Sill to

Overhang(ft)

5.6

9

11

5.6

9

6

5.6

5.6

5.6

11

5.6

0.42

0.35

Right Extent(ft)

3.0

3.0

0.0

3.0

3.0

0.0

0.0

3.0

3.0

3.0

3.0

343

252

0.28

0.19

0.34

0.43

6

Left Extent(ft)

3.0

3.0

3.0

0.0

0.0

3.0

3.0

3.0

0.0

0.0

3.0

3.0

3.0

3.0

3.0

Project Name:	Glendale USD Glenoaks ES - Off	ice Wing		NRCC-PRF-01-E	Page 7 of 21		
Project Address:	2015 E Glenoaks Blvd Glendale	91206		Calculation Date/Time:	17:45, Tue, Mar	16, 2021	
Input File Name:	AMS Glenoaks ES OfficeBldg.cib	d19					
G6. OVERHANG DI	ETAILS						
	1	2	3		4	5	6
	Fenestration Tag/ID	Orientation	Depth(f		Sottom of Sill to nang(ft)	Right Extent(ft)	Left Extent(f
	CL000005_W-1-W2	East	8.0		9	3.0	3.0
	CL000005_W1-W0	West	2.0		6	0.0	0.0
	CL000005_W1-W1	West	2.0		6	0.0	0.0
	CL000004_W-1-W0	East	8.0		11	3.0	3.0
	CL000004_W-1-W1	East	8.0	!	5.6	3.0	3.0
	CL000004_W-1-W3	East	8.0		9	3.0	3.0
	CL000004_W1-W0	West	2.0		6	0.0	0.0
	CL000004_W1-W1	West	2.0		6	0.0	0.0
	CL00000C_W-1-W1	East	8.0		9	3.0	3.0
	CL00000C_W-1-W2	East	8.0	!	5.6	3.0	3.0
	CL00000D_W0-W0	West	2.0		6	0.0	0.0
	CL00000A_W-1-W0	West	2.0		6	0.0	0.0
	CL00000B_W-1-W0	East	8.0		5.6	3.0	3.0

Project Name:	Glendale USD Glenoaks ES - Office Wing	NRCC-PRF-01-E	Page 8 of 21
Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
Input File Name:	AMS Glenoaks ES OfficeBldg.cibd19		

H. HVAC SYSTEM SUMMARY

This Section Does Not Apply

		D	ry System Equipment 1 (Fan & Economizer inf	fo included below in T	able N)			
1	2	3	4	5	6	7	8	9	10
				Heati	ng		Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	Status
AC-1 - AC-5_5T	SZVAVAC (Packaged3Phase)	2	49	No	0	AFUE-81.0	59	SEER-16.00 / EER-12.40	N
AC-6_5T	SZVAVAC (Packaged3Phase)	1	49	No	0	AFUE-81.0	59	SEER-16.00 / EER-12.40	N
AC-7 - AC-11_5T	SZVAVAC (Packaged3Phase)	2	49	No	0	AFUE-81.0	59	SEER-16.00 / EER-12.40	N
IDU-1	SZHP (Split3Phase)	1	19	No	0	HSPF-11.50	18	SEER-19.00 / EER-13.00	N

1	2	3	4	5	6	7	8	9	10	11	12
	System Type	Design OA			pply Fan	,			Return Fan		
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	ВНР	Watts	Control	CFM	ВНР	Watts	Control	- Economizer Ty (if present)
AC-1 - AC-5_5T	SZVAVAC	355	2000	1.900	1556.7	VariableSpeedDri ve	NA	NA	NA	NA	NoEconomize
AC-6_5T	SZVAVAC	137	2000	1.900	1556.7	VariableSpeedDri ve	NA	NA	NA	NA	NoEconomize
AC-7 - AC-11_5T	SZVAVAC	355	2000	1.900	1556.7	VariableSpeedDri ve	NA	NA	NA	NA	NoEconomize
IDU-1	SZHP	0	490	0.023	20.2	TwoSpeed	NA	NA	NA	NA	NA

7	Project Name:	Glendale USD Glenoaks ES - Office Wing	NRCC-PRF-01-E	Page 9 of 21
-	Project Address:	2015 E Glenoaks Blvd Glendale 91206	Calculation Date/Time:	17:45, Tue, Mar 16, 2021
_	Input File Name:	AMS Glenoaks ES OfficeBldg.cibd19		
_				
	H3. EXHAUST FAN S	SUMMARY		

1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity	Efficiency	Standby Loss		Pur	nps	`	Sta
Name of Item 1ag	Equipment Type	Qty	VOI (gai)	(kBtu/h)	Efficiency	Stalluby Loss	Qty	GPM	HP	VSD (Y/N)	tus¹

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
AC-1 - AC-5_5T	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
AC-6_5T	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
AC-7 - AC-11_5T	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
Service HW	NA	NA	NA	NA	Fixed Temperature Control, No [
ITWH SHW	NA	NA	NA	NA	Fixed Temperature Control, No I

H6. MECHANICAL VENTILATION								
1	2	3	4	5	6	7	8	9
			Mecha	nical Ventilatio	n			DCV or Occupant
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	Sensor Controls, or Both
Zn_F1_Classrooms	Education - Classrooms (ages 9-18)	О	46.77	0	711	0	1871	NA



787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

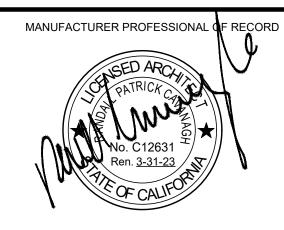
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CLASSROOM BUILDINGS

(2) 72'x40' 2 STORY

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS **ELEMENTARY SCHOOL**



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

\triangle	
$\stackrel{\frown}{2}$	
$\overline{\bigcirc}$	
4	
DRAWN BY:	AH
SCALE:	AS NOTED
DATE:	03/15/21
PROJECT NO:	1613-20

ENERGY CALCULATIONS

SHEET NUMBER:

1/2021 10/0 BID SE

Project Name:	Glandala USD Cla	noaks ES - Office Wing				NRCC-PRF-02		Page 10	of 21				
Project Name.		ilvd Glendale 91206				Calculation D			ue, Mar 16, 2	 021			
nput File Name:	AMS Glenoaks ES					Calculation	rate/ fillie.	17.43, 10	JC, IVIAI 10, 2	021			
H6. MECHANICAL VEI	AITH ATION												
1	VIILATION	2		3	4	5	6		7		8		9
			ļ	<u> </u>		nical Ventilation						DCV or	Occupar
Zone Nan	ne	Ventilation Function	# hote	el rooms	# of people	# of bedrooms	Supply O	A CFM	Exhaust C	CFM C	Conditioned Area (sf)	Sensor	Control Both
Zn_F2_Classr	ooms	ucation - Classrooms (ago 9-18)	es	0	46.77	0	71:	1	0		1871		NA
Zn_F2_Off	ice	Office - Office space		0	4.57	0	13	7	0		914	Occupa	ant Senso
Zn_Elec 10	09	General - Unoccupied		0	0.11	0	0		0		73		NA
Does the Project includ	e Zonal Systems?		INVICE NO	I WAIEK	SYSTEM SUMN	IARY)							Yes
<u> </u>	e Zonal Systems?		4	5	6	IAKY)	7		8	9	10	11	Yes
17. ZONAL SYSTEM A	e Zonal Systems? ND TERMINAL UN 2	IT SUMMARY 3	4 Rated (7 flow (cfm)		8	9	10 Fa		Yes
17. ZONAL SYSTEM A	e Zonal Systems? ND TERMINAL UN	IT SUMMARY	4 Rated (5 Capacity	6	Air			8 Min. Ratio	9 BHP			Yes 12
17. ZONAL SYSTEM A	e Zonal Systems? ND TERMINAL UN 2	IT SUMMARY 3	4 Rated ((kB	5 Capacity ituh)	6	Air	flow (cfm)		Min.		Fa	an	Yes 12
17. ZONAL SYSTEM A 1 System ID	e Zonal Systems? ND TERMINAL UN 2 Zone Name	IT SUMMARY 3 System Type SZHP	4 Rated ((kB	5 Capacity ituh) Cooling	6 g Desig	Air	flow (cfm) Min.		Min. Ratio	ВНР	Fa Watts	en Cycles	Yes 12 ECM Moto
1 System ID	e Zonal Systems? ND TERMINAL UN 2 Zone Name Zn_Elec 109	IT SUMMARY 3 System Type SZHP	4 Rated (kB	5 Capacity ituh) Cooling	6 Desig	Air	flow (cfm) Min. 400		Min. Ratio 0.816327	BHP 0.023	Watts	Cycles	Yes 12 ECM Moto
TOWAL SYSTEM A System ID IDU-1 AC-1 - AC-5_5T_TU	zone Name Zn_Elec 109 Zn_F1_Classroom	System Type SZHP SVAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA	5 Capacity ituh) Cooling	6 Desig 490 2000	Air	Min. 400		Min. Ratio 0.816327 0.50	8HP 0.023 NA	Watts 20.2 NA	Cycles	Yes 12 ECM Moto
1 System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU	zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Office Zn_F2_Classroom	System Type SZHP SVAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000		Min. Ratio 0.816327 0.50 0.50	8HP 0.023 NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Moto
TONAL SYSTEM A 1 System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU H8. EVAPORATIVE CO	zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Office Zn_F2_Classroom	System Type SZHP SVAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000		Min. Ratio 0.816327 0.50 0.50	8HP 0.023 NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Moto
1 System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU	zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Office Zn_F2_Classroom	System Type SZHP SVAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000		Min. Ratio 0.816327 0.50 0.50	8HP 0.023 NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Moto
TONAL SYSTEM A 1 System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU H8. EVAPORATIVE CO	Zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Office Zn_F2_Classroom OLER SUMMARY	System Type SZHP SVAVNoReheatBox VAVNoReheatBox VAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000		Min. Ratio 0.816327 0.50 0.50	8HP 0.023 NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Moto
1 System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU H8. EVAPORATIVE CO	Zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Office Zn_F2_Classroom OLER SUMMARY	System Type SZHP SVAVNoReheatBox VAVNoReheatBox VAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000		Min. Ratio 0.816327 0.50 0.50	8HP 0.023 NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Moto
System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU H8. EVAPORATIVE CO This Section Does Not A . DOMESTIC/SERVICE	Zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Classroom OLER SUMMARY pply E HOT WATER SYS	System Type SZHP SVAVNoReheatBox VAVNoReheatBox VAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000 1000	Page 11	Min. Ratio 0.816327 0.50 0.50	8HP 0.023 NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Motor
1 System ID IDU-1 AC-1 - AC-5_5T_TU AC-6_5T_TU AC-7 - AC-11_5T_TU H8. EVAPORATIVE CO	Zone Name Zn_Elec 109 Zn_F1_Classroom Zn_F2_Office Zn_F2_Classroom OLER SUMMARY pply E HOT WATER SYS	System Type SZHP SVAVNoReheatBox VAVNoReheatBox VAVNoReheatBox VAVNoReheatBox	4 Rated (kB Heating 19.00 NA NA	5 Capacity Etuh) Cooling 18.00 NA NA	6 Design 490 2000 2000	Air	Min. 400 1000 1000 1000		Min. Ratio 0.816327 0.50 0.50	BHP 0.023 NA NA NA	Watts 20.2 NA NA	Cycles NA NA	Yes 12 ECM Motor

6

(kBtu/h)

4.8 (kW)

4.8 (kW)

Lighting Control Credits

Lighting Control Credits

0

How Wattage is Determined

from NA8

NRCC-PRF-01-E

EF: 0.90

UEF: 0.99

Tank Vol

(gal)

19.90

0.10

Installed Lighting Power

1,600

200

Installed Lighting Power

200

2,060

Watts per luminaire

50

Electricity

Electricity

12. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

³Lighting information for existing spaces modeled is not included in the table

Luminaire Schedule (includes all permanent installed lighting in

conditioned space, and portable lighting over 0.3 w/ft² in

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Conditioned Floor Area ²

3,742

593

Glendale USD Glenoaks ES - Office Wing

2015 E Glenoaks Blvd Glendale 91206

Conditioned Floor Area ²

320

4,794

omplete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8,

one dimmable electronic ballast)

Lithonia 2VTL2 or equal

Lithonia 2VTL4 or equal

If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

AMS Glenoaks ES OfficeBldg.cibd19

13. SOLAR HOT WATER HEATING SUMMARY

ITWH

This Section Does Not Apply

This Section Does Not Apply

This Section Does Not Apply

Occupancy Type 1

Classroom, Lecture, Training

Vocational Areas Electrical, Mechanical, Telephone Rooms Office Area (>250 square

Project Name:

Project Address:

Input File Name:

1

Occupancy Type 1

Office Area (<250 square

Commercial/Industrial Storage (Warehouse)

Name or Item Tag

2x2 VTLED

¹ See Table 140.6-C

Building Totals:

² See NRCC-LTI-01-E for unconditioned spaces

J. COVERED PROCESS SUMMARY

K. INDOOR LIGHTING SUMMARY

Storage

Instantaneous

Tank Insulation

R-value

(Int/Ext)

NA

Standby Loss

Fraction

SBLF: NA

Additional (Custom) Allowance

Additional (Custom) Allowance

Area Category Footnotes

Page 12 of 21

Area Category Footnotes

0

40

Installed Watts (Conditioned)

§130.0(c)

Yes

Calculation Date/Time: 17:45, Tue, Mar 16, 2021

Classroom 104	Classi	room, Lecture, Training, Vocational Areas	none specified none specified none specified -	1		0.000.000.000.0	0	x		
Classroom 105	Classi	room, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х		
Classroom 105	Classi	room, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х		
Elec 109	Electrica	al, Mechanical, Telephone Rooms	- none specified none specified none specified none specified none specified -	0		0.000.000.000.0	0			
Classroom 204	Classi	room, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х		
Classroom 204	Classi	room, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0 00.00	0	Х		
Classroom 205	Classi	room, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х		
Classroom 205	Classi	room, Lecture, Training, Vocational Areas	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0	0	Х		
Workroom 206	Office	Area (>250 square feet)	- none specified none specified none specified none specified none specified -	1		0.000.000.000.0 00.00	0	х		
Project Name:		Glendale USD Glenoaks ES	S - Office Wing		NRCC-PRF-01-E	Page 14	of 21			
Project Address		2015 E Glenoaks Blvd Glei			Calculation Date/T		e, Mar 16, 2021			
Input File Name		AMS Glenoaks ES OfficeBl			Calculation Date/1	17.43, 10	e, Mai 10, 2021			
Imput the ivame		AWS CICHOURS ES OTHECES	ug.cibu13							
K3. INDOOR C	ONDITIO	ONED LIGHTING CONTRO	OL CREDITS							
Lighting Co	ntrol Cre		lighting controls installed in conditior 40.6(a)2 and Table 140.6-A)	ned space for	Col	ntrol Credit Calcu	llation	- √ If Acceptance	Confi	irme
Location in Building		upancy Type (must meet rements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts	Test Required	Pass	F
Workroom 206	Offic	e Area (>250 square feet)	- none specified none specified none specified none specified none specified -	0		0.000.000.000	0 0			[
	+		 	1	-i	+	+	+	† 	\vdash

of Units

Page 13 of 21

Confirmed

Test Required

Control Credit

Calculation Date/Time: 17:45, Tue, Mar 16, 2021

Control Credit Calculation

Power

Adjustment

Factor

0.000.000.000.0

00.00

0.000.000.000.0

00.00

Controlled

Lighting

Glendale USD Glenoaks ES - Office Wing

2015 E Glenoaks Blvd Glendale 91206

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for

compliance credit per §140.6(a)2 and Table 140.6-A)

Control (i.e., partial on occupancy

- none specified -- none specified

-- none specified -- none specified

none specified -- none specified

-- none specified none specified -- none specified

- none specified -- none specified

-- none specified -- none specified -- none specified

sensor, manual dimming, etc.)

AMS Glenoaks ES OfficeBldg.cibd19

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Occupancy Type (must meet

requirements of Table 140.6-A)

Classroom, Lecture, Training,

Office Area (<250 square feet)

Office 207

Vocational Areas

roject Name:

Project Address: Input File Name:

Location in

Building

Tank Location

or Ambient

Condition

NA

Confirmed

Confirmed

Room Number

Non-Rectangular Spaces This Section Does Not Apply

Installed Watts

60

2,000

Heat Pump

Office 208	Office Area (<250 sq	uare feet)	none specified none speci none specified -	fied	1			00.00	0		Χ		
Jan 209	Commercial/Industri (Warehouse	~ I	- none specified none speci none specified none speci none specified -		0			0.000.000.000	0 0				
(4. INDOOR CO	ONDITIONED LIGHTIN	G MANDAT	ORY LIGHTING CONTROLS	· · · · · · · · · · · · · · · · · · ·	,							,	
Lighting Control	•	•	ng controls installed in conditio nents per §130.1)	ned space t	O St	andaı	ds Complian	ce (√ all that ap	oply or "E" if e	exempt)	Is		firmed
Location	on in Building	(i.e., oc	scription of Lighting Control ccupancy sensor, dimming, tic daylighting control, etc.)	# of Unit	§130.1	(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(Acceptar Test Require		Fai
Clas	ssroom 104		Occupancy Sensor	1	NA		NA	٧	NA	NA	No		
Clas	ssroom 105		Occupancy Sensor	1	NA		NA	٧	NA	NA	No		
E	Elec 109		Occupancy Sensor	1	NA	Ì	NA	٧	NA	NA	No		
Clas	ssroom 204		Occupancy Sensor	1	NA	Î	NA	٧	NA	NA	No		
Clas	ssroom 205		Occupancy Sensor	1	NA	ĺ	NA	٧	NA	NA	No		Ī
Wor	rkroom 206		Occupancy Sensor	1	NA		NA	٧	NA	NA	No		
0	Office 207		Occupancy Sensor	1	NA		NA	٧	NA	NA	No		T
0	Office 208		Occupancy Sensor	1	NA	Î	NA	٧	NA	NA	No		Ī
	Jan 209		Occupancy Sensor	1	NA	Ì	NA	٧	NA	NA	No		╽┖

Project Name:	Glendale USD Glenoaks ES - Office Wing	NRCC-PRF-01-E	Page 15 of 21
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Input File Name:	AMS Glenoaks ES OfficeBldg.cibd19		

Imput riie Name.	Alvis diefloaks Es Officeblug.clbu19				
§130.1(a) = Manual area control	ls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory I	Daylight; §130.1(e) = Den	nand Responsive		
K5. TAILORED METHO	DD CONDITIONED LIGHTING POWER ALLOWANCE SUN	MARY AND CHE	CKLIST		
General lighting power ((see Table D)				0
General lighting power f	rom special function areas (see Table E)				NA
Additional "use it or lose	e it" (See Table G)				0
				Total watts	0
			,		
K6. GENERAL LIGHTIN	NG POWER				
This Costion Does Not A	malu.				

Room Number	Primary Function Area	Illuminance Value	Room Cavity Ratio	Allowed LPD	Floor Area (ft²)	Allowed Watts	Conf	irmed
Norm Number	Filliary Function Area	(LUX)	(Table G)	Allowed LFD	Floor Area (It-)	Allowed Watts	Pass	Fail
NA	NA	NA	NA	NA	NA	NA		

Room Width (ft)

RCR

NA

Room Cavity Height (ft)

NA

<u></u>		- Destaurantes Common table					
vo	ote: All applicable spaces are listed under the Nor	n-Rectangular Spaces table					
K	(9. ADDITIONAL "USE IT OR LOSE	IT"					
	1.	2.	3.	4.		Confi	rme
	Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	:
	0	0	0	0	0		

Room Length (ft)

NA

Task/Activity Description

NA

Project Name:	Glendale USD Glenoaks ES - Office Wing	NRCC-PRF-01-E	Page 16 of 21
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K10. Wall Display			
This Section Does No	t Apply		
K11. Floor Display	and Task Lighting		
This Section Does No	t Apply		
K12. Combined Or	namental and Special Effects Lighting		
This Section Does No	t Apply		
K13. Very Valuable	Merchandise		
This Section Does No	t Apply		
Project Name:	Glendale USD Glenoaks ES - Office Wing	NRCC-PRF-01-E	Page 17 of 21

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	Input File Name:	AMS Glenoaks ES OfficeBldg.cibd19						
L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION								
	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized							
	compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at:							
	https://www.energy	v.ca.gov/title24/2019standards/2019_compliance_docun	nents/Nonresidential_Documents	/NRCI/				

2015 E Glenoaks Blvd Glendale 91206

Building Component	Building Component YES NO Form/Title		1	eld ector	
				Pass	Fail
Envelope	⊠		NRCI-ENV-01-E - Must be submitted for all buildings		
Mechanical	\boxtimes		NRCI-MCH-01-E - Must be submitted for all buildings		
	\boxtimes		NRCI-PLB-01-E - Must be submitted for all buildings		
		\boxtimes	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance		
Plumbing		\boxtimes	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance		
		\boxtimes	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application		
		\boxtimes	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application		
		\boxtimes	NRCI-STH-01-E - Must be submitted for solar hot water heating systems		
	\boxtimes		NRCI-LTI-01-E - Must be submitted for all buildings		
	\boxtimes		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance		
Indoor Lighting		\boxtimes	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance		
		\boxtimes	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance		
		\boxtimes	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance		
Covered Process		\boxtimes	NRCI-PRC-01-E - Must be submitted for all Covered Processes		

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	M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized
	compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certificat

l 🗖	l ⊓ '		M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
		1	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certificat	-
			Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	,1011
		I		

	Building Component	YES	NO	Form/Title	Inspe	eld ector
ļ					Pass	Fail
	Envelope	\boxtimes		NRCA-ENV-02-F - NRFC label verification for fenestration		
	Lilvelope			NRCA-ENV-03-F - Daylighting Design PAFs		
		\boxtimes		NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls		
	Indoor Lighting	\boxtimes		NRCA-LTI-03-A - Automatic Daylight Controls		
	indoor Lighting		\boxtimes	NRCA-LTI-04-A - Demand Responsive Lighting Controls		
			\boxtimes	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)		
			\boxtimes	NRCA-PRC-02-F - Kitchen Exhaust		
			\boxtimes	NRCA-PRC-03-F - Garage Exhaust		
	Covered Process		\boxtimes	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls		
	Covered Process		\boxtimes	NRCA-PRC-13-F –Escalator and Moving Walkways Speed Control		
			\boxtimes	NRCA-PRC-14-F – Lab Exhaust Ventilation System		
			X	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System		

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Input File Name	e:	AMS Glenoaks ES OfficeBldg.cibd19		

	M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
1	

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component		NO	Form/Title		Field pector	
3			· · · · · · · · · · · · · · · · · · ·	Pass	Fail	
	⊠		NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap			
			NRCA-MCH-03-A Constant Volume Single Zone HVAC			
		\boxtimes	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required			
			NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only			
		\boxtimes	NRCA-MCH-05-A Air Economizer Controls			
		\boxtimes	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints			
			NRCA-MCH-07-A Supply Fan Variable Flow Controls			
		\boxtimes	NRCA-MCH-08-A Valve Leakage Test			
Mechanical		\boxtimes	NRCA-MCH-09-A Supply Water Temperature Reset Controls			
		\boxtimes	NRCA-MCH-10-A Hydronic System Variable Flow Controls			
		\boxtimes	NRCA-MCH-11-A Automatic Demand Shed Controls			
			NRCA-MCH-12-A FDD for Packaged Direct Expansion Units			
			NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance			
			NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance			
			NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance			
		\boxtimes	NRCA-MCH-16-A Supply Air Temperature Reset Controls			
		\boxtimes	NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
		\boxtimes	NRCA-MCH-18 Energy Management Control Systems			
		\boxtimes	NRCA-MCH-19 Occupancy Sensor Controls			



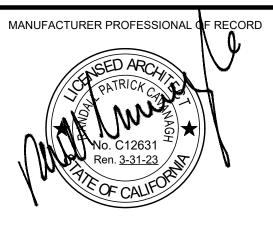
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SET NAME

(2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME GLENDALE USD **GLENOAKS ELEMENTARY SCHOOL**



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

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2	
Δ	
4	
DRAWN BY:	АН
DRAWN BY: SCALE:	AH AS NOTED
SCALE:	AS NOTED

ENERGY CALCULATIONS

SHEET NUMBER:

UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD. REVISIONS

/202 10/0 BID

	[
Project Name: Project Address:	Glendale USD Glenoaks ES - 2015 E Glenoaks Blvd Glend		NRCC-PRF-01-E Calculation Date/Time:	Page 20 of 21 17:45, Tue, Mar 16, 2021		CERTIFICATE OF COMPLIANCE Project Name:	G	endale USD Glenoak	S FS Report Page:			
Input File Name:	AMS Glenoaks ES OfficeBldg	.cibd19				Project Address:	Gi	endale OSD Glenoak	Date Prepared:			2021-03
N. DECLARATION OF	F REQUIRED CERTIFICATES O	VERIFICATION										
				st be submitted for the features to be recogniz	ed for	F. OUTDOOR LIGHTING FIXTURE SO For new or altered lighting systems dea		40.7 all now lumi	naires heina installed	and any existing l	umingires rema	ining or heing moved w
			ng inspector during construction and can be f cuments/Nonresidential_Documents/NRCV/	ouna online at:		covered by the permit application are	included in the Table below. For	altered lighting sy	tems using the Existin	ng Power method	per <u>§141.0(b)2L</u>	only new luminaires b
المانية	ling Common out	YES NO	Form /Tibl		Field Inspector	replacement luminaires being installed Designed Wattage:	i as part of the project scope are	included (ie, exist	ing luminaires remain	ing or existing lun	inaires being m	noved are not included).
Bullai	ling Component	YES NO	Form/Title	:	Pass Fail		2 03	04	05	06	07	08 09
			-04-H Duct Leakage Test			Name or Item	Watts	per How is	Total number	Luminaire Exc	luded per	Cutoff Req.
N	Mechanical		-24-H Enclosure Air Leakage -27 Indoor Air Quality & Mechanical Ventilation			Tag Complete Lumin	aire Description lumina	· I \\/\attagr	luminaires 2		140.7(a) Des	lumen outp
			-32-H Local Mechanical Exhaust			Fut ITC 2CW		NASH CHA	- 10	Name		§130.2(b) NA: < 6200
	Plumbing	 	21-H - HERS verified central systems in high-rise re			Ext LTG 26W Ext LTG Fixture	Linear 26	Mfr. Spe	19	New		494 lumens
		□ NRCV-PLB-2	22-H - HERS verified single dwelling unit systems in	ı high-rise residential, hotel/motel application		* NOTES: Selections with a * require a note	e in the space below explaining hov	compliance is achie	ved.	lotal Des	ign Watts:	494
Project Name:	Glendale USD Glenoaks ES -	Office Wing	NRCC-PRF-01-E	Page 21 of 21		EX: Luminaire is lighting a statue; EXCEPTION 1FOOTNOTES: Authority Having Jurisdiction		o confirm wattage u	and for compliance per 6	130.0(c)		
Project Address:	2015 E Glenoaks Blvd Gleno	-	Calculation Date/Time:	17:45, Tue, Mar 16, 2021		² For linear luminaires, wattage should be i	ndicated as W/lf instead of Watts/l	ıminaire. Total linea	feet should be indicate	d in column 05 inste		
Input File Name:	AMS Glenoaks ES OfficeBld	g.cibd19				³ Select "New" for new luminaires in a new for existing luminaires within the project sc						
	AUTHOR'S DECLARATION STA					the project scope. ⁴ Compliance with mandatory cutoff require	ements is required for luminaires w	th initial lumen outp	ut >= 6,200 unless exem	pted by <u>§130.2(b)</u>		
	rate of Compliance documentation is or Name: Hans Marsman, CEA, L			Digitally signed by		G. CUTOFF REQUIREMENTS (BUG)						
Company: Marsman C			Signature:	Hans Marsman, LEE AP, CEA	ΞD	This section does not apply to this pro						
Address: 1150 J Street			Signature Date: 2021-03-16	Hans Marsman NR16-09-20024 17:47:32-07'00'								
City/State/Zip: San Die Phone: (619) 573-6374			CEA/ HERS Certification Identificat	tion (if applicable): NR-16-09-20024		CERTIFICATE OF COMPLIANCE						
	ON'S DECLARATION STATEM	ENT				Project Name: Project Address:	G	endale USD Glenoa	S ES Report Page: Date Prepared:			2021-03
	nder penalty of perjury, under the la					rioject Address.			Date Frepared.			2021 0
	vided on this Certificate of Compliand vivision 3 of the Business and Profess		ity for the building design or system design identified or	n this Certificate of Compliance (responsible designer)		H. OUTDOOR LIGHTING CONTROL	.S					
3. The energy features a		erials, components, and manufa		n identified on this Certificate of Compliance conform to	the requirements	This table demonstrates compliance w						
plans and specifications	s submitted to the enforcement ager	ncy for approval with this buildir	ng permit application.	on other applicable compliance documents, worksheets,		existing to remain (ie untouched) and the permit application.					_	
			e available with the building permit(s) issued for the bu required to be included with the documentation the bu	ilding, and made available to the enforcement agency for ilder provides to the building owner at occupancy.	· all applicable	When an option having a * is selected "DOES NOT COMPLY" if the notes are i	•	nust be completed	. The lighting controls	s section of the Co.	mpliance Summ	nary Table on the first po
Responsible Envelope	e Designer Name: Randall P Cava	nnagh	Signature			Mandatory Controls		,		,		
·	Modular Systems Gen7 Schools		Signature:			01	02		03		04	
Address: 787 Spreckel			Date Signed:			Area Description	Shut-Off		Auto-Schedule		Motion Sen	
Phone: 209.825.1921			Title: Engineer	License #: C12631		, wed bescription	§130.2(c)1		<u>§130.2(c)2</u>		§130.2(c)	Pass
Responsible Lighting D	Designer Name: Randall P Cavan	nagh	Circotom			Entrance Door Elec R: Ext LTG 26			Yes		Yes	
,	Modular Systems Gen7 Schools		Signature:			Overhangs/Canopies: Ext LTG 26 * NOTES: Controls with a * require a note			Yes ed.		Yes	
Address: 787 Spreckel: City/State/Zip: Manted			Date Signed:			EX: Not permitted by health & safety to be						
Phone: 209.825.1921			Title: Engineer	License #: C12631		I. LIGHTING POWER ALLOWANCE	(per §140.7)					
Responsible Mechanic	cal Designer Name: Randall P Ca	vannagh	6: 1			This table includes areas using allowa	nce calculations per <u>§140.7</u> . Gei	•			01	
Company: American N	Modular Systems Gen7 Schools		Signature:			Allowance is per <u>Table 140.7-A</u> while ' Indicate which allowances are being u			General		' Allowance (se	lect all that apply) (sele
Address: 787 Spreckel			Date Signed:			that qualify for one of the "Use it or lo it or lose it" allowance.			Allowance	□ Per Application	☐ Sales Fronta	ge
Phone: 209.825.1921			Title: Engineer	License #: C12631			Dower Allewanes non Toble 14	27 4 (17 0 1 9 4)	Table I (below)	Table J	Table K	Table L
						Calculated General Hardscape Lighting This section does not apply to this pro		J.7-A (LZ U, I & 4)				
CERTIFICATE OF COMPI	PLIANCE				NRCC-LTO-E	Calculated General Hardscape Lighting		D.7-A (LZ 2 & 3)				
Project Name:			USD Glenoaks ES Report Page:		(Page 1 of 8)	This section does not apply to this pro	oject.					
Project Address:	201	5 E Glenoaks Blvd, Glend	lale, CA 91206 Date Prepared:	2021-03-16T	T12:25:24-04:00	CERTIFICATE OF COMPLIANCE						
A. GENERAL INFOR												
01 Project Location 02 Climate Zone						Project Name:	G	endale USD Glenoak				2021-03
	1 9	endale	04 Total Illuminated Ha	rdscape Area (ft²) 0		Project Name: Project Address:	Gl	endale USD Glenoak	S ES Report Page: Date Prepared:			
	ting Zone per Title 24 Part 1 §1	0.114 or as designated by	/ Authority Having Jurisdiction (AHJ):			Project Address:		endale USD Glenoak				
☐ LZ-0: Very Low	ting Zone per Title 24 Part 1 §1 w - Undeveloped Parkland	0.114 or as designated by ☐ LZ-2: Moderate - Rura	y Authority Having Jurisdiction (AHJ): al Areas	e reviewed by CA Energy Commission for Approx	/al		PLICATION		Date Prepared:			
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LZ-0: Very Low LZ-1: Low - De B. PROJECT SCOPE This table includes out \$141.0(b)2L for alter My Project Consists of Altered Light Altered Light % of Example 10% Please proceed to Ta ¹ FOOTNOTES: % of Example 10% CERTIFICATE OF COMP Project Name: Project Address: C. COMPLIANCE Ri Results in this table of to Table D. Exception 01 General Hardscape Allowance \$140.7(d)1 (See Table I)	ting Zone per Title 24 Part 1 §1 w - Undeveloped Parkland eveloped Parkland it utdoor lighting systems that arrations. of: 01 ting System ighting System ighting System o3 Existing Luminaires Being Alter in >= 10% and < 50% able F. Outdoor Lighting Fixtur Existing Luminaires Being Alter PLIANCE RESULTS are automatically calculated formal Conditions for guidance or Calculations of Total Allowed 02 03 Per Application + Frontage §140.7(d)2 (See Table J) (See Table J)	D.114 or as designated by □ LZ-2: Moderate - Rura □ LZ-3: Moderately High LZ-3: Moderately High LZ-3: Moderately High LZ-3: Moderately High Must Collaborately High Sum Tolerately High	Authority Having Jurisdiction (AHJ): In Areas	e reviewed by CA Energy Commission for Approximate pliance using the prescriptive path outlined in § 202 add (Watts)? Yes 05 Calculation Method es within the Scope of the Permit Application) x 2021-03-16 this table says "COMPLIES with Exceptional Compliance Results 07 08 Total Allowed (Watts) 27 Total Actual (Watts) 07	No No NRCC-LTO-E (Page 2 of 8) 6T12:25:24-04:00 nditions" refer 09 must be >= 08	Project Address: J. LIGHTING ALLOWANCE: PER APP This table includes areas using the wat 01 Area Description Entrance Door Elec R 1 FOOTNOTES: Primary entrance application 2 The Allowance per Location for ATMs is 10 3 For luminaires indicated in Table F as lined K. LIGHTING ALLOWANCE: SALES F This section does not apply to this pro	Application per Table 140.7- Building Entrance/Exit Building Entrance/Exit	from Table 140.7-1 03 CALCULATE # of Locations 1 facilities, healthcare ach additional per 1	Date Prepared: 3. 04 05 D ALLOWANCE (Watte Allowance per Allowate (Watte Allowate) 19 19 19 facilities, police stations able 140.7-B.	Luminaire nce Name or ltem Tag Ext LTG 26V Tot s, hospitals, fire stat	DESIGN Watts per Luminaire V 26 al Design Watts Total Al	# of Luminaires 1 26 for this Area: 26 llowance (Watts) All Area and the second sec

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

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

E. ADDITIONAL REMARKS

NRCC-LTO-E (Page 3 of 8) 2021-03-16T12:25:24-04:00 2021-03-16T12:25:24-04:00 M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This table includes areas using the wattage allowance per specific area from Table 140.7: However, multiple specific area allowances may not be taken for the exact same area on on included). Ose of luminaires. CERTIFICATE OF COMPLIANCE Project Name: Proje	Date Prepared: B . More than one the site. O4 D ALLOWANCE (W Allowed Density Allo (W/ft²) (V 0.2	e specific area allowan	07 DESIGN Watts per	08
Project Address: Project Address Project Address Project Address	Date Prepared: B . More than one the site. O4 D ALLOWANCE (W Allowed Density Allo (W/ft²) (V 0.2	e specific area allowani 05 06 Vatts) Extra Luminaire owance Name or Natts) Item Tag	07 DESIGN Watts per	08
M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This table includes areas using the wattage allowance per specific area from Table 140.7: However, multiple specific area allowances may not be taken for the exact same area on 1 02 03 03 03 02 04 05 05 05 05 05 05 05 05 05 05 05 05 05	the site. 04 D ALLOWANCE (W Allowed Density Allo (W/ft²) (V 0.2	05 06 Vatts) Extra Luminaire owance Name or Item Tag	07 DESIGN Watts per	08
This table includes areas using the wattage allowance per specific area from Table 140.7- However, multiple specific area allowances may not be taken for the exact same area on 1	the site. 04 D ALLOWANCE (W Allowed Density Allo (W/ft²) (V 0.2	05 06 Vatts) Extra Luminaire owance Name or Item Tag	07 DESIGN Watts per	08
maining or being moved within the spaces bi2L only new luminaires being installed and g moved are not included). Area Description Specific Area Type per Table 140.7-B Cutoff Req. > 6,200 initial lumen output \$130.2(b) 4 Pass Fail NA: < 6200 lumens Apa NA: < 6200 lumens Apa No. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.	the site. 04 D ALLOWANCE (W Allowed Density Allo (W/ft²) (V 0.2	05 06 Vatts) Extra Luminaire owance Name or Item Tag	07 DESIGN Watts per	08
Area Description Specific Area Type per Table 140.7-B Cutoff Req. > Field 6,200 initial lumen output \$130.2(b) 4 Pass Fail APA NA: < 6200 lumens APA Specific Area Type per Table 140.7-B Overhangs/Canopies NonSalesCanopy 2900 Pass Fail FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft² for these additional inspector lumens) N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.	Allowed Ensity (W/ft²) (V	Extra Luminaire owance Natts) Item Tag	DESIGN Watts per	
Area Description Specific Area Type per Table 140.7-B Cutoff Req. > 6,200 initial lumen output \$130.2(b) 4 Pass Fail APA NA: < 6200 lumens APA NA: < 6200 lu	Allowed Density (W/ft²) (V 0.2 lighting allowances.	Extra Luminaire owance Name or Natts) Item Tag	Watts per	WALLS
Os	(W/ft²) (V 0.2	Natts) Item Tag		# of
Design Watts Coverhangs/Canopies NonSalesCanopy 2900	lighting allowances.	783 Ext LTG 26W	Luminaire	Luminaires
Design Watts lumen output	lighting allowances.		26	18
494 NA: < 6200 lumens		Tota	Design Watts	for this Area
494 lumens Limens Limens				lowance (W
N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.			olumn 08 instead	of number of
This section does not apply to this project.				
O DECLARATION OF REQUIRED SERVICIONES OF INSTALLATION				
of luminaires IV. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION				
an alteration. Select "Existing to Remain" Selections have been made based on information provided in this document. If any select	tion have been cha	anged by permit applica	ant. an explanc	tion should
eing removed and reinstalled as part of Additional Remarks. These documents must be provided to the building inspector during	construction and c	can be found online at		
https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonre		ents/NKCI/		
	orm/Title			
NRCI-LTO-01-E - Must be submitted for all buildings NRCI-LTO-02-E- Must be submitted for a lighting control system	n, or for an Energy	y Management Control	System (EMCS), to be
recognized for compliance.				
NRCC-LTO-E				
(Page 4 of 8) (Page 4 of 8) CERTIFICATE OF COMPLIANCE Project Name: Glendale USD Glenoak	To Donort Dogo			
2021-03-16T12:25:24-04:00 Project Address:	Date Prepared:	:		
	•			
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE				
For alteration projects, luminaires which are en if they are within the spaces covered by Additional Remarks. These documents must be provided in this document. If any select				
Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/pr		mast be completed till	Jugii uli Accepi	unce lest to
mmary Table on the first page will show Yes No	orm/Title			
NRCA-LTO-02-A - Must be submitted for all outdoor lighting co	ontrols except for a	alterations where cont	rols are added	to <= 20
1 05 luminaires.	'			
Sensor Field Inspector				
CERTIFICATE OF COMPLIANCE Pass Fail Project Name: Glendale USD Glenoal	c ES Panort Page:			
S Project Address:	Date Prepared	1:		
S DOCUMENTATION AUTHORIS DESIA PATION STATEMENT				
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and com	nplete.			
Documentation Author Name: Hans Marsman	Documentation A	Author Signature:		Ser A
Company: Marsman Consulting Address: 1150 J Street #409	Signature Date:	ification Identification (if app	dicable):	CEA
City/State/Zip: San Diego, CA 92101	Phone: (619) 5		ilcable).	Hans Marsman NR16-09-20024
(select all that apply) (select all that apply) RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:				
ontage Urnamental Area 1. The information provided on this Certificate of Compliance is true and correct. 2. Lam eligible under Division 3 of the Business and Professions Code to accept responsibility for the				
Table M 3. The energy features and performance specifications, materials, components, and manufactured d 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	857			
plans and specifications submitted to the enforcement agency for approval with this building perr 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available.	mit application.	20000000000000000000000000000000000000		
inspections. I understand that a completed signed copy of this Certificate of Compliance is require Responsible Designer Name:	Responsible Des		ler provides to the	building owne
Randall P Cavannagh Company: American Modular Systems Gen7 Schools	Date Signed:03/	/16/2021		
Address: 787 Spreckels Avenue City/State/Zip: Manteca, CA 95336	License: C1	9.825.1921		
NRCC-LTO-E (Page 5 of 8)	20	0.020.1021		
2021-03-16T12:25:24-04:00				
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2021-03-16T12:25:24-04:00 08				

CERTIFICATE OF COMPLIANCE									NRCC-LTO-E
Project Name:	Glend	dale USD Glenoa	ks ES Report P a	age:					(Page 6 of 8)
Project Address:			Date Pre	Date Prepared: 2021-03-16T12:25:24					12:25:24-04:00
M. LIGHTING ALLOWANCE: PER SPI	ECIFIC AREA								
This table includes areas using the wat However, multiple specific area allowar		· · · · · · · · · · · · · · · · · · ·		ın one specific	area allowand	ce may be tak	en in a single _l	project, if appli	icable.
01	02	03	04	05	06	07	08	09	10
		CALCULATI	ED ALLOWAN	CE (Watts)		DESIGN	WATTS	•	Additional
Area Description	Specific Area Type per <u>Table</u> <u>140.7-B</u>	Specific Area (ft²)¹	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Overhangs/Canopies	NonSalesCanopy	2900	0.2	783	Ext LTG 26W	26	18	468	468
	•				Total	Design Watts	for this Area:	468	
						Total A	llowance (Wa	tts) All Areas:	468
¹ FOOTNOTES: See <u>Table 140.7-B</u> for rules fo ² For luminaires indicated in Table F as linea					e indicated in col	lumn 08 instead	d of number of l	luminaires.	
N. EXISTING CONDITIONS POWER	ALLOWANCE (alterations only)								
This section does not apply to this proj	ect.								
O. DECLARATION OF REQUIRED CE	RTIFICATES OF INSTALLATION								
Selections have been made based on in Additional Remarks. These documents i https://www.energy.ca.gov/title24/202	must be provided to the building ir	nspector during	construction	and can be fo	ound online at	ant, an explan	ation should k	pe included in 1	Table E.

		recognized for compliance.			
	,				
CERTIFICATE (OF COMPLIANO	CE			NRCC-LTO-
Project Name	:	Glendale USD Glenoaks ES	Report Page:		(Page 7 of
Project Addre	ess:		Date Prepared:	2021-03-16T1	L2:25:24-04:0

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 must be completed through an Acceptance Test Technician Certification								
Provider (AT	Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html							
Yes	Yes No Form/Title Field Inspector							
103	Pass Fail							
	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20							

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Glendale USD Glenoaks ES	Report Page:	(Page 8 of 8)
Project Address:		Date Prepared:	2021-03-16T12:25:24-04:00
		*	
DOCUMENTATION AUTHORIC DECLARATION CTATEMENT			
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			

DOCUMENT	TATION AUTHOR'S DECLARATION STATEMENT			
certify tha	t this Certificate of Compliance documentation is accurate and	complete.		
Documentation Hans Marsma		Documentation Author Signature:	CEA	Digitally signed by Hans Marsman,
Company:	Marsman Consulting	Signature Date:		LEED AP, CEA
Address:	1150 J Street #409	CEA/ HERS Certification Identification (if applicable):	Hans Marsman	Date: 2021.03.16
City/State/Zip:	San Diego, CA 92101	Phone: (619) 573-6374	NR16-09-20024	09:26:57-07'00'
RESPONSIB	LE PERSON'S DECLARATION STATEMENT			
certify the follo	wing 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 f	for the building design or system design identified on this Certificate of	Compliance (responsi	ble designer)

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 the 24, Part 1 and Part 6 of the California Code of Regulations. uilding 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, SITE SPECIFIC PROJECT NAME and specifications submitted to the enforcement agency for approval with this building permit application.

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 ections. 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. Randall P Cavannagh

American Modular Systems

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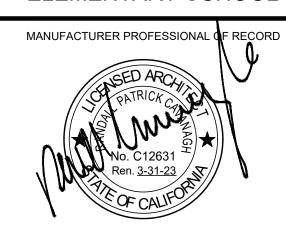
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Field Inspector

Pass Fail

(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

GLENDALE USD GLENOAKS **ELEMENTARY SCHOOL**



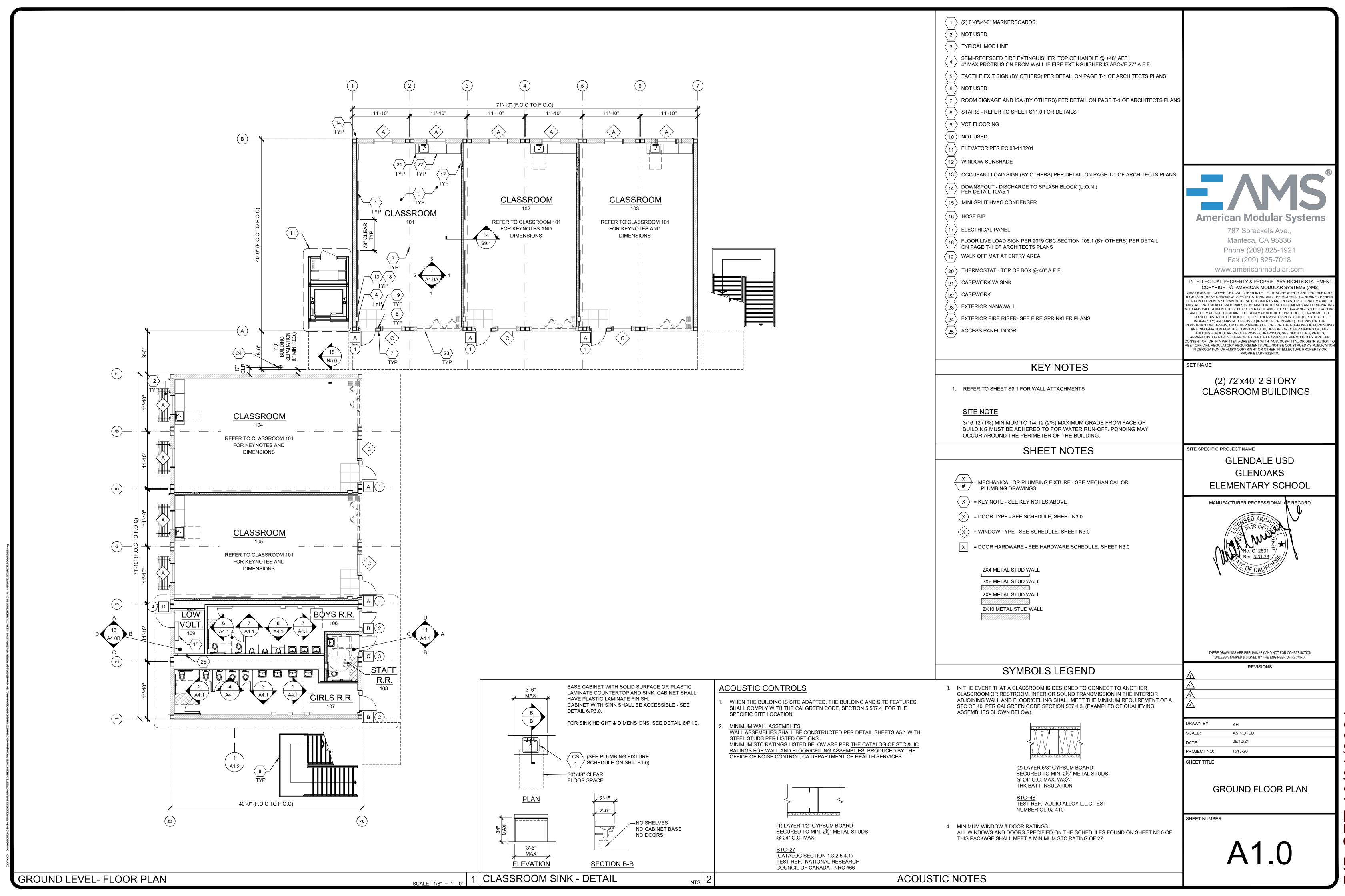
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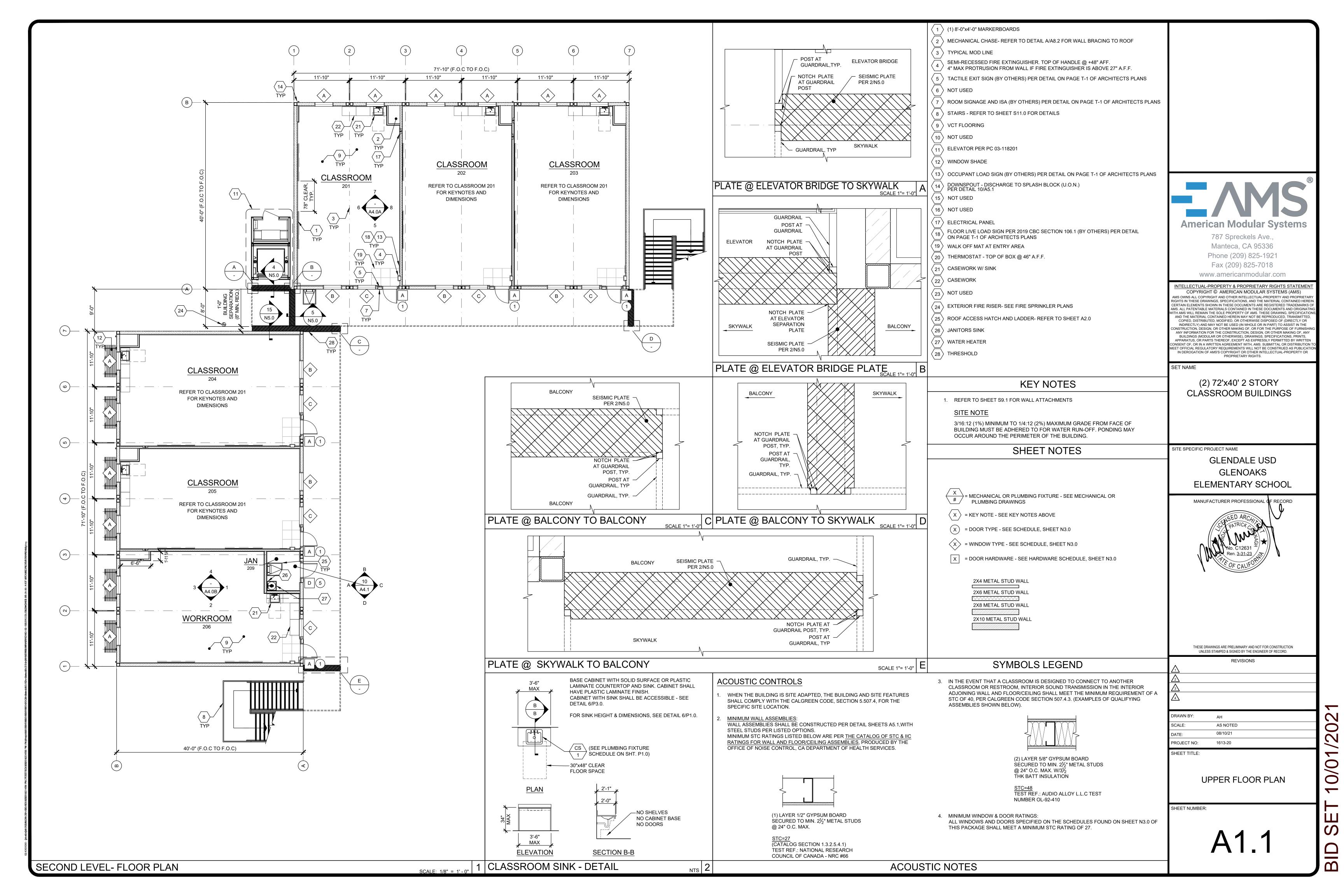
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DATE:	03/15/21
PROJECT NO:	1613-20
SHEET TITLE:	

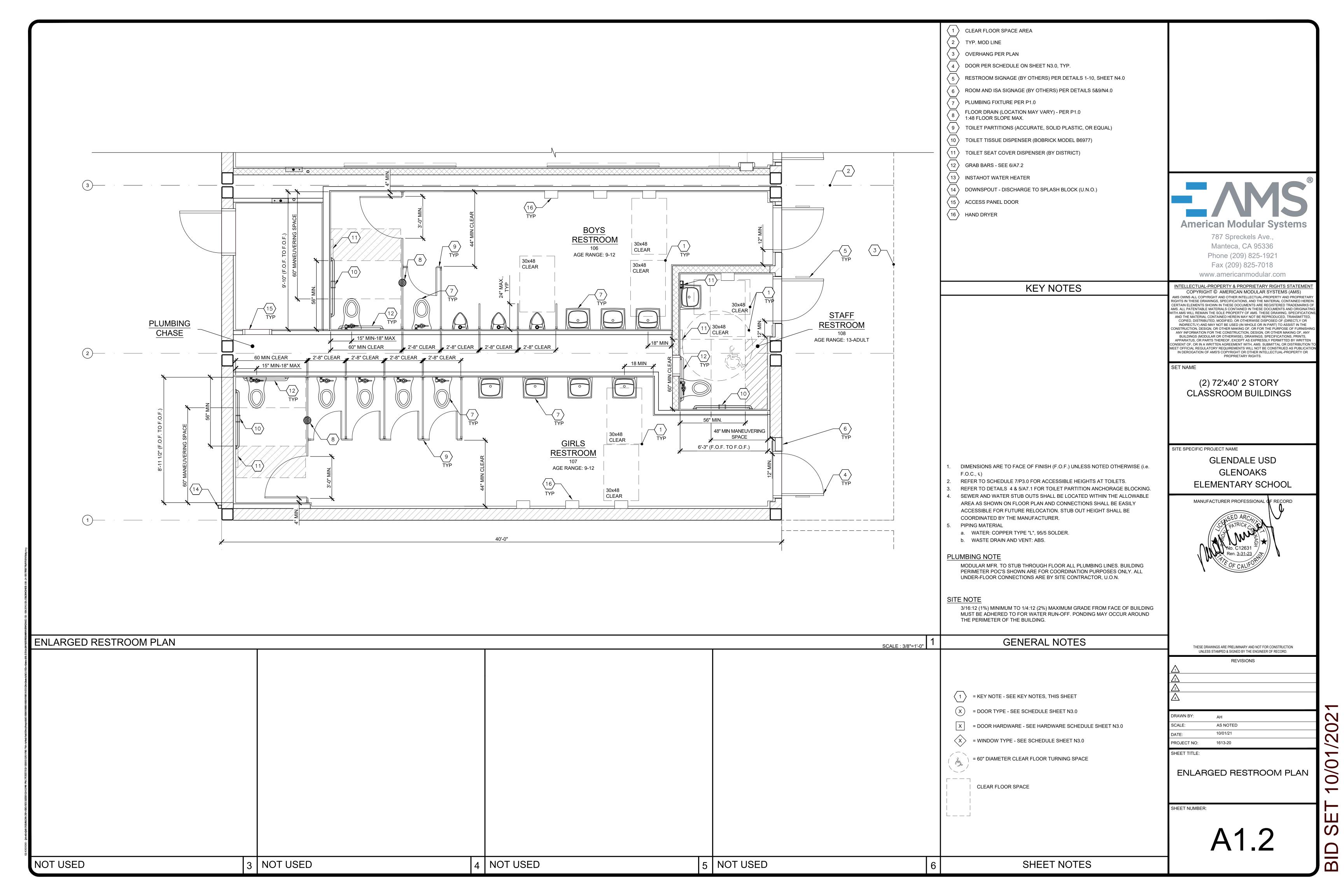
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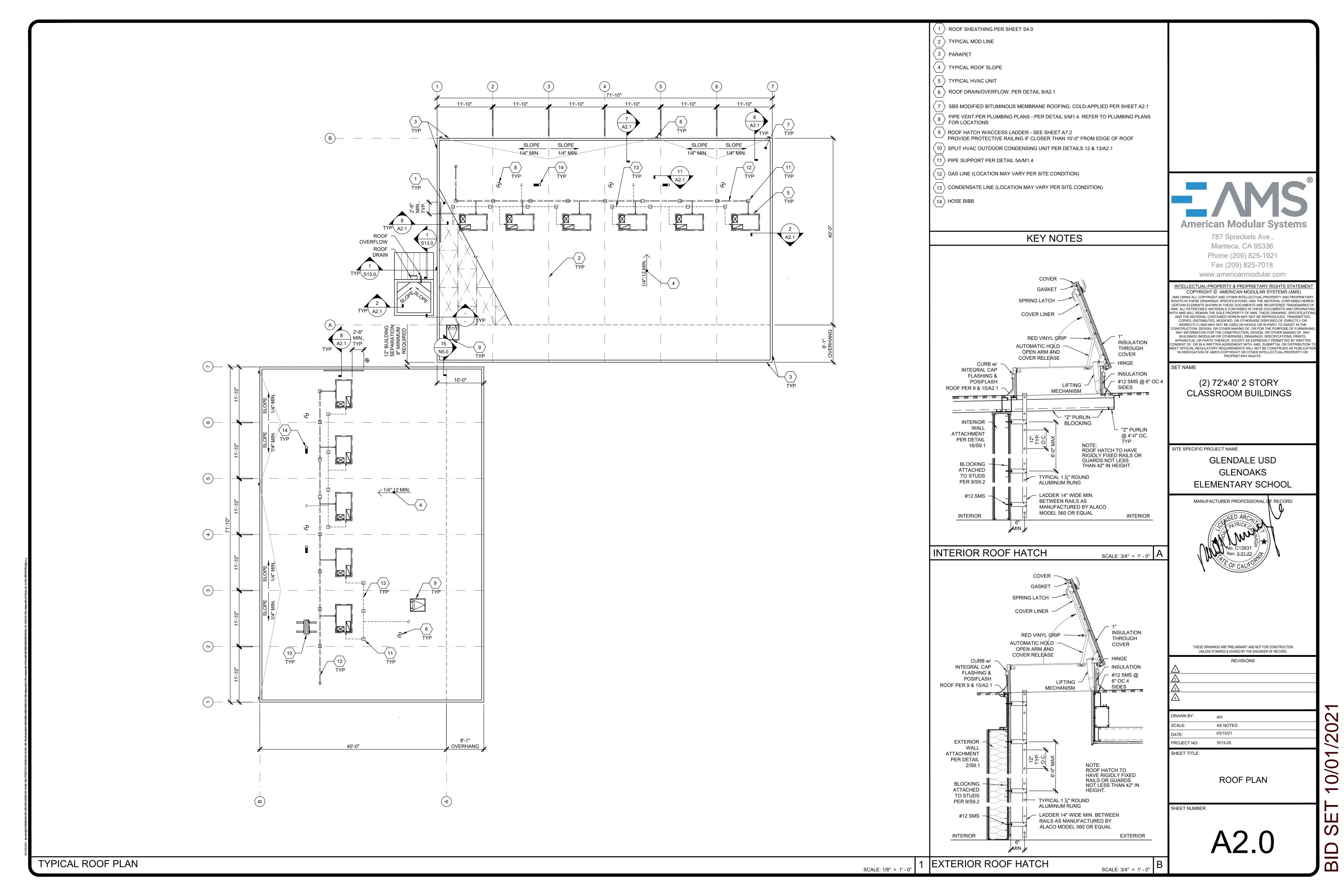
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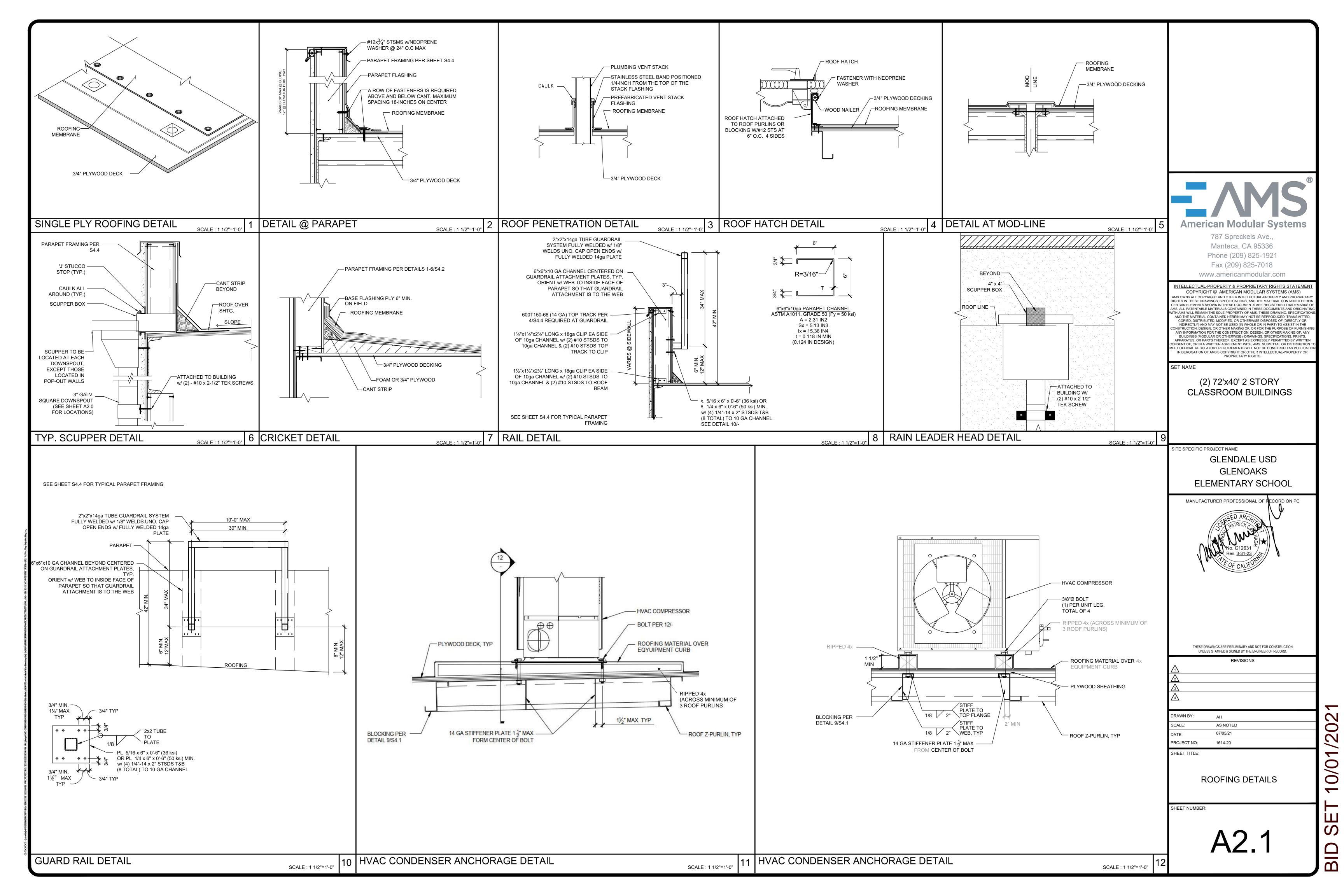
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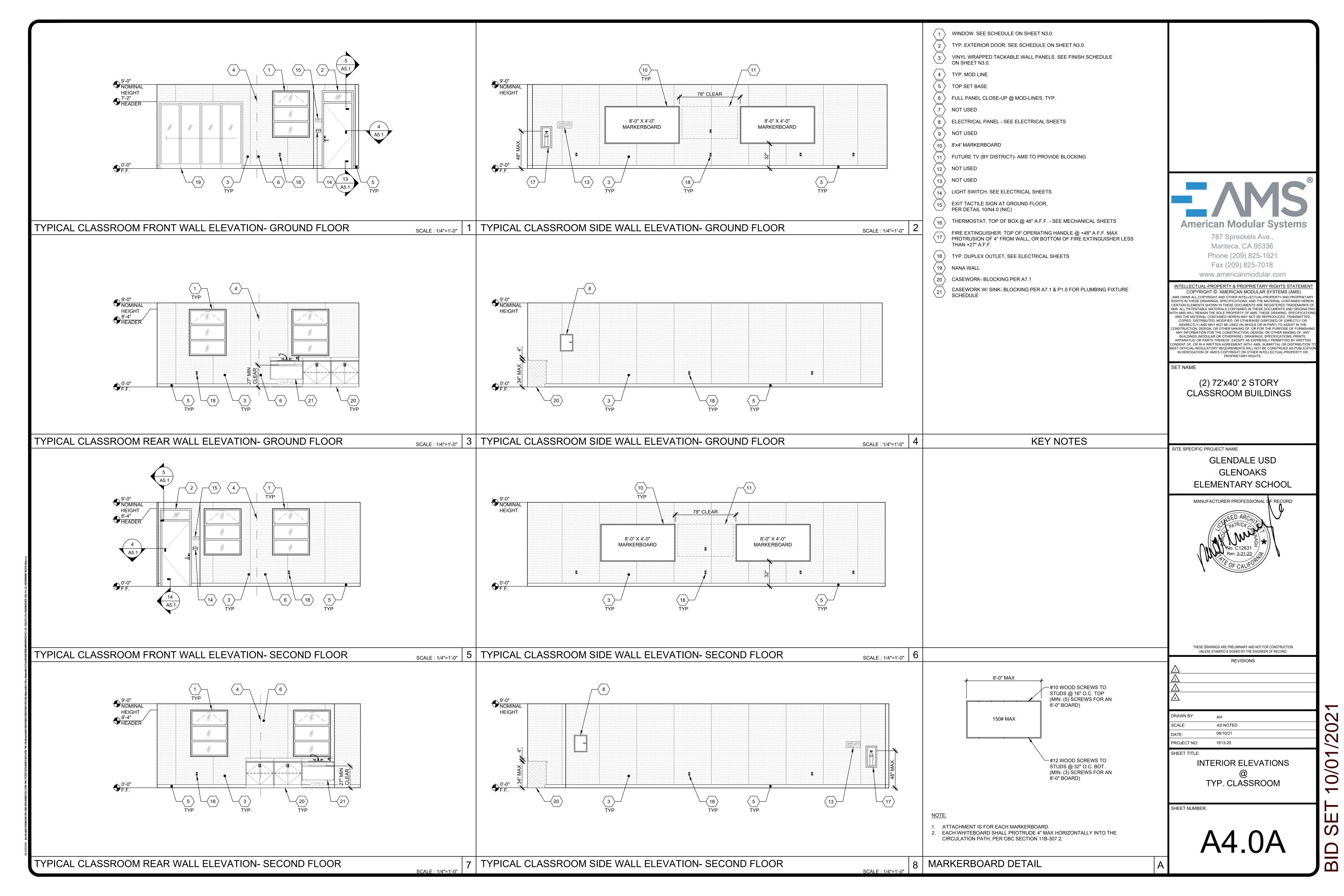


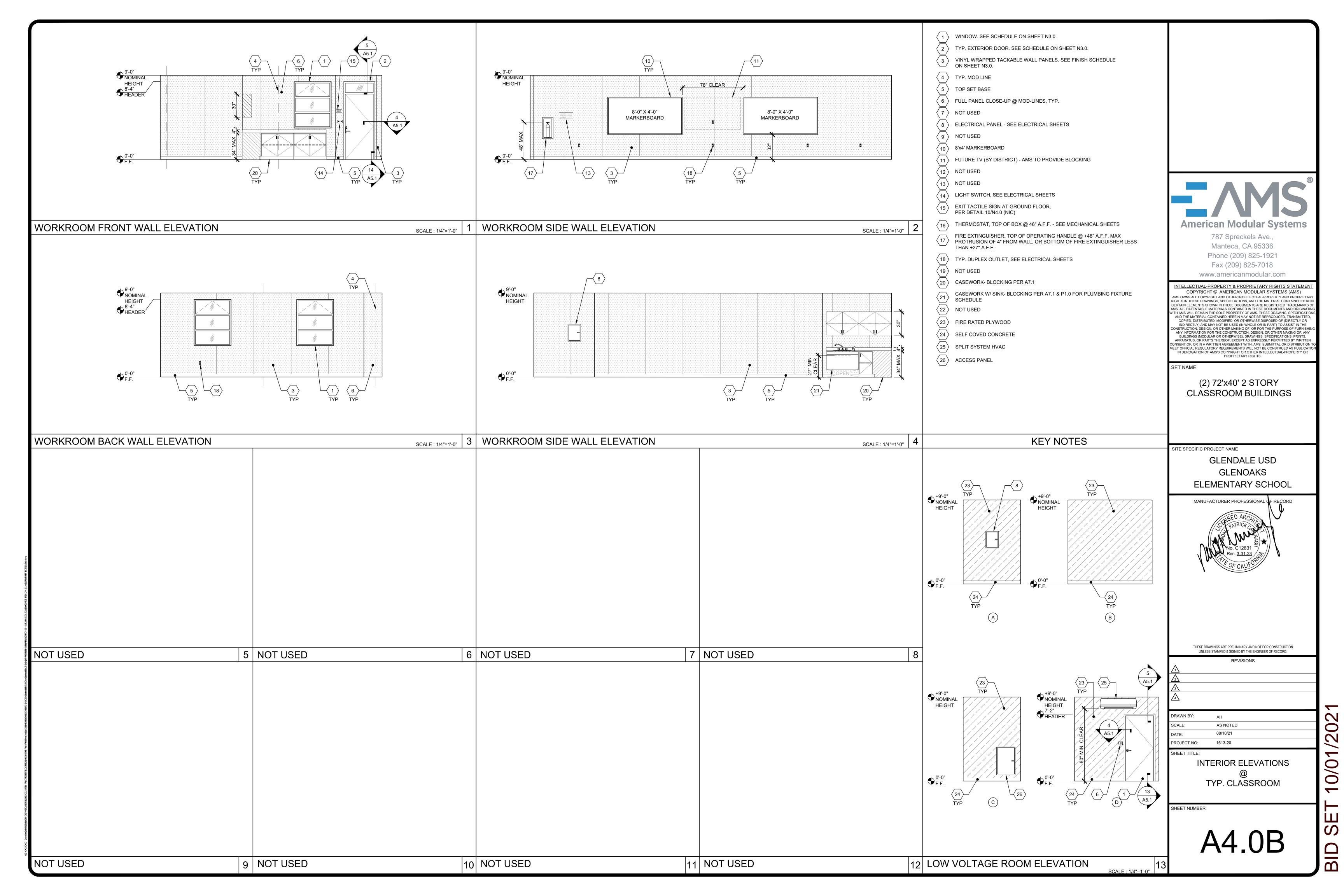


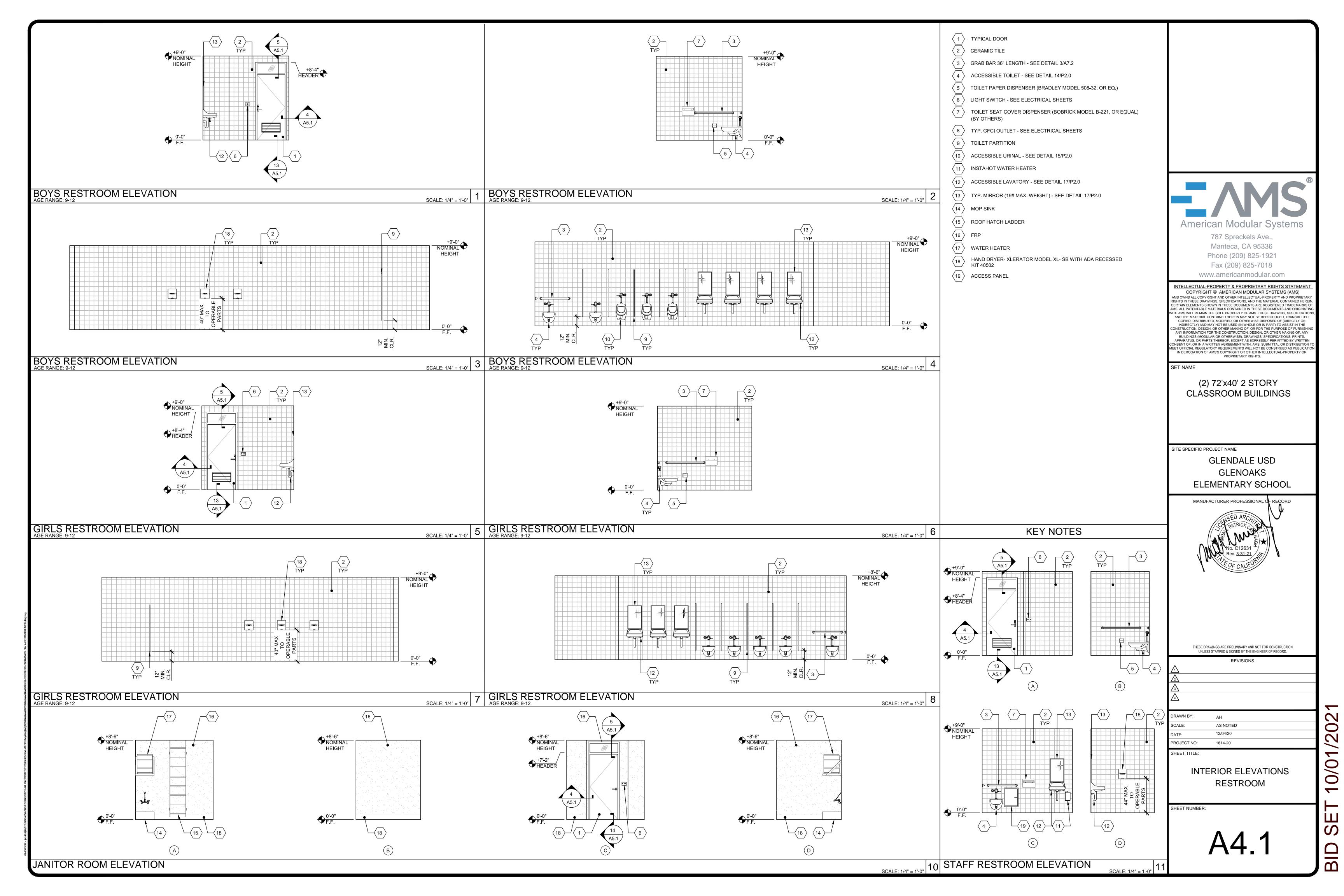


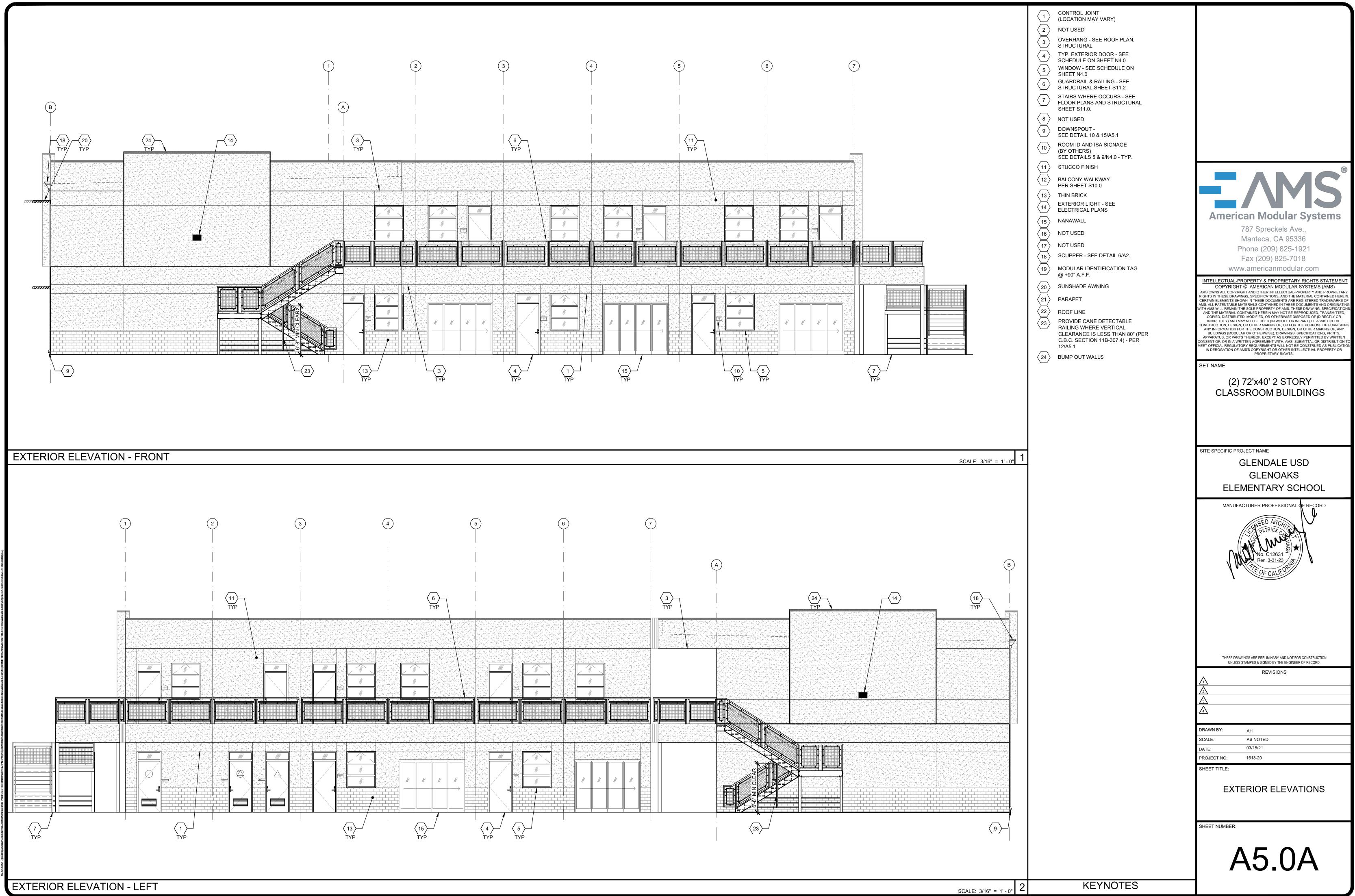


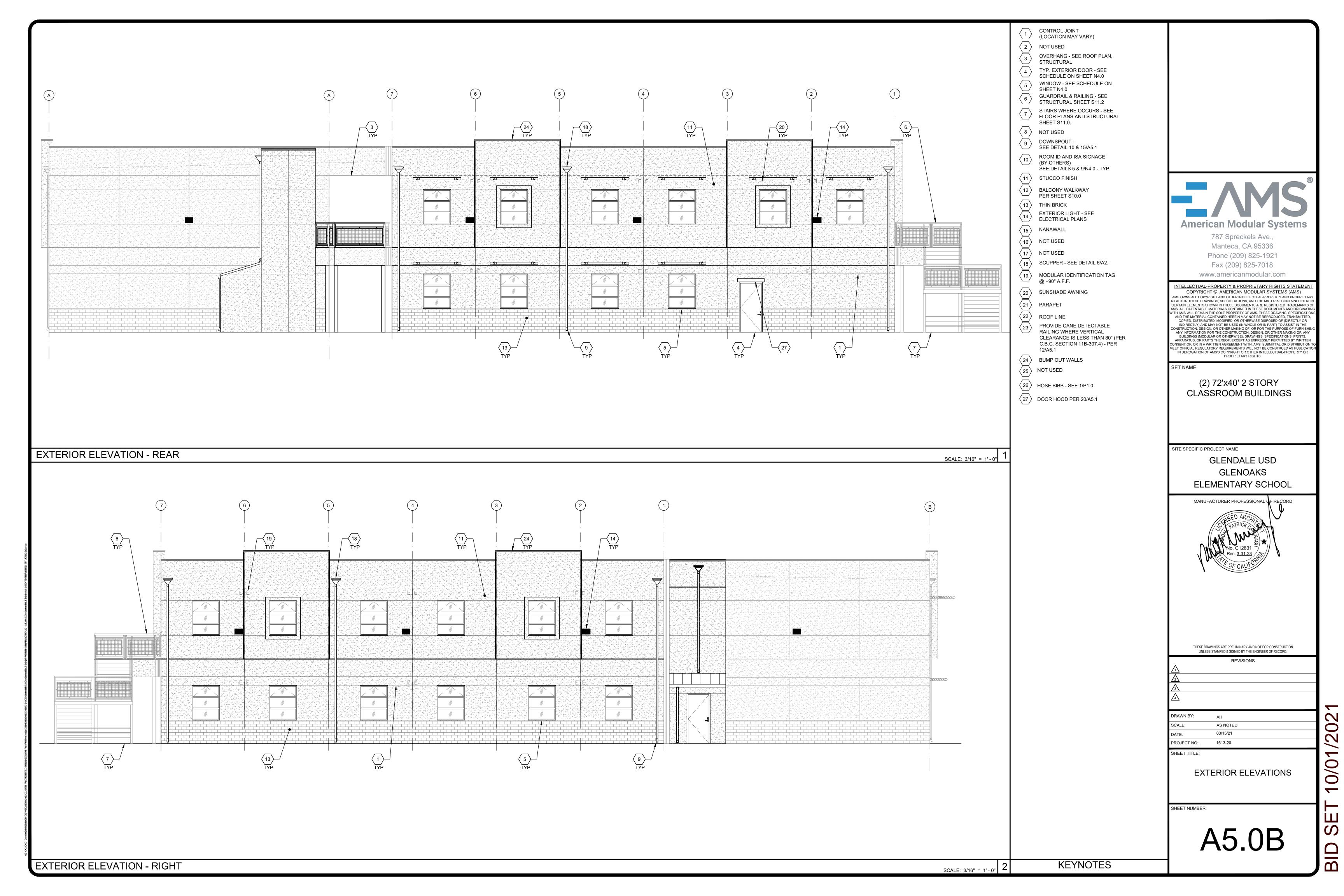


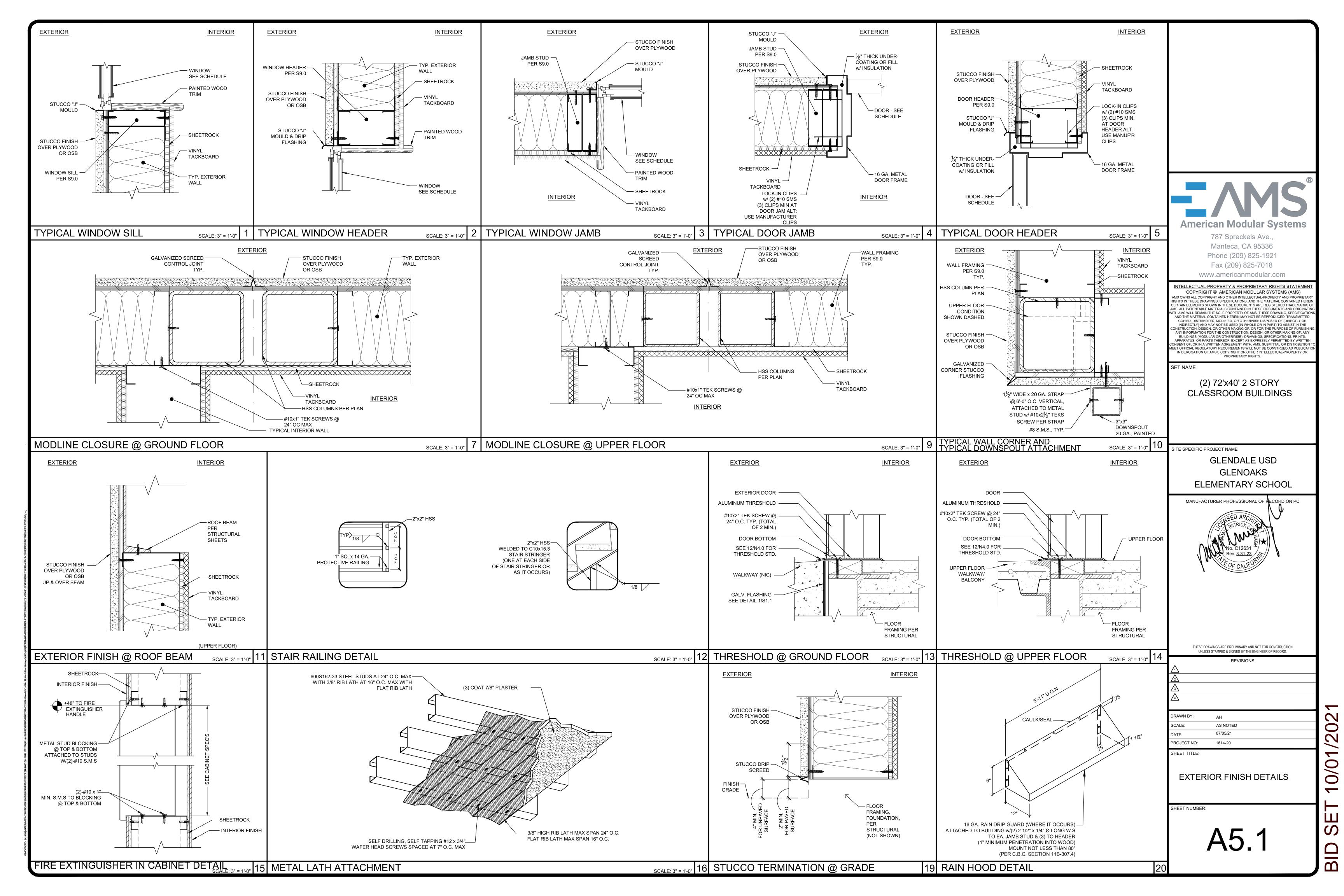


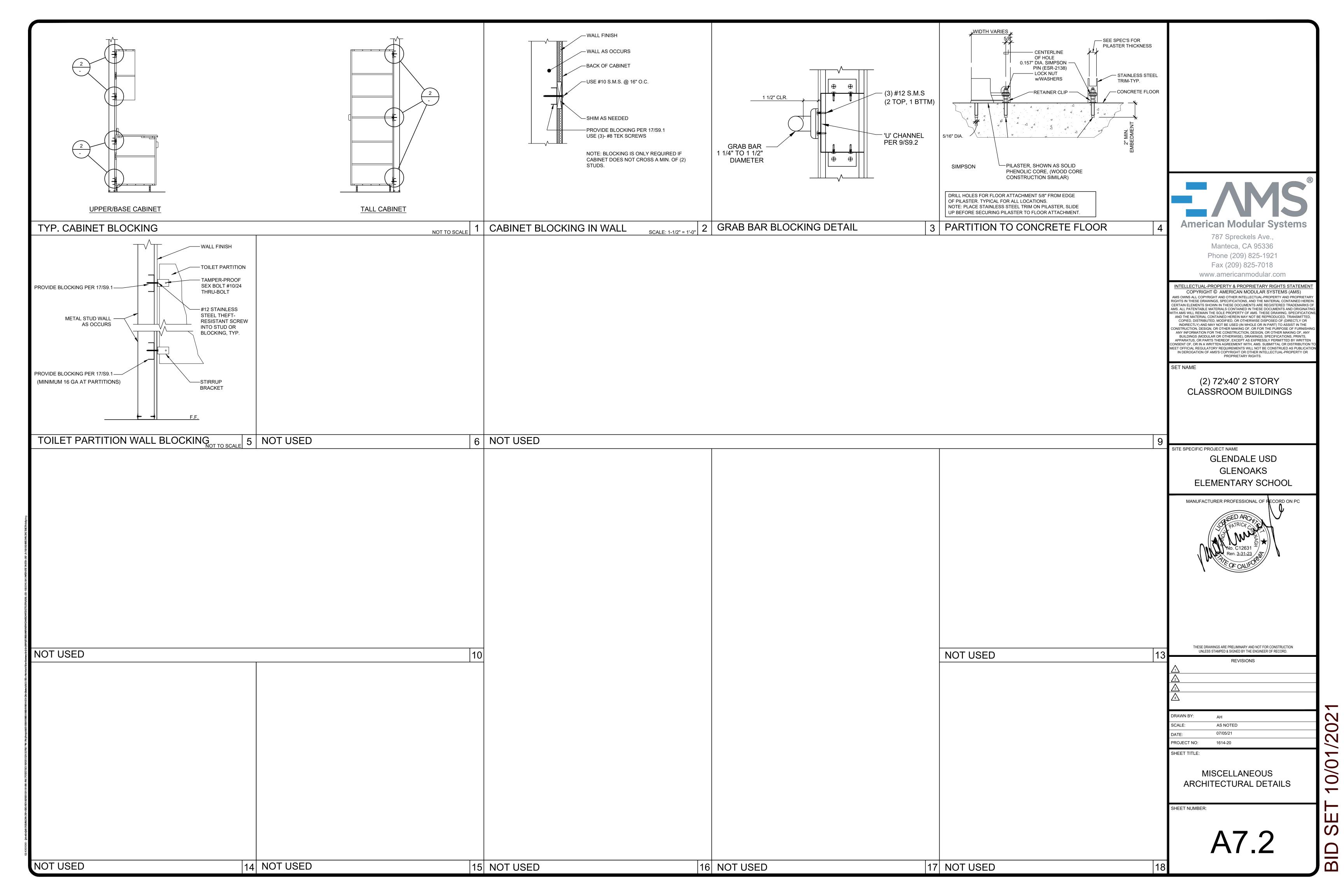


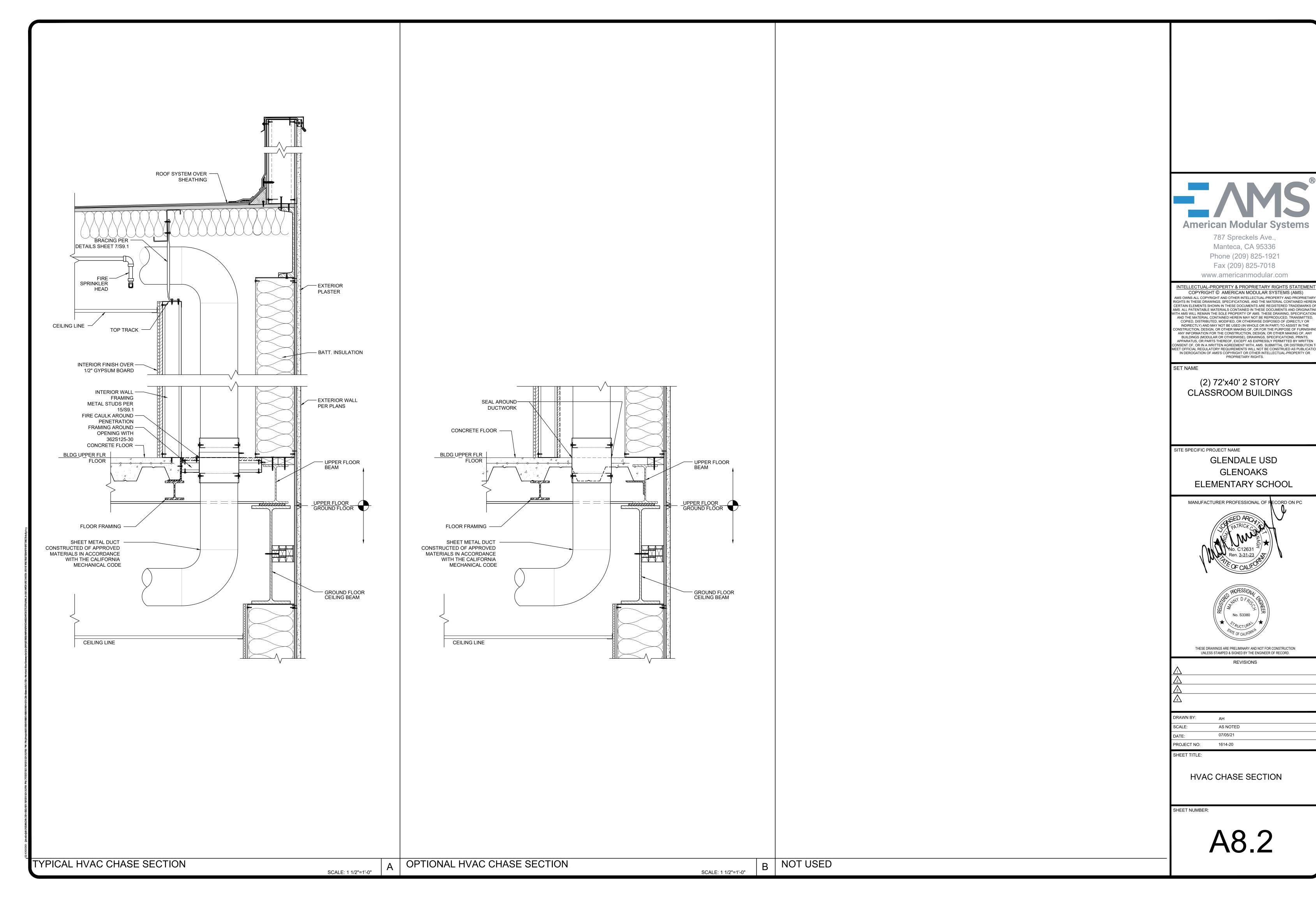


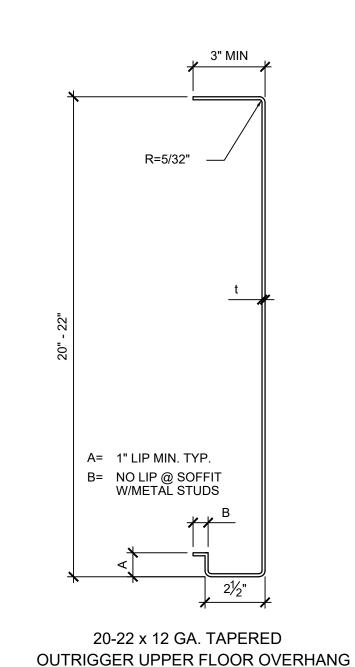












20"

ASTM = A1011

GRADE = 36 Fy = 36 ksi

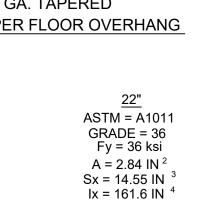
 $A = 2.74 IN^2$

 $Sx = 13.00 IN^3$

 $Ix = 136.1 IN^4$

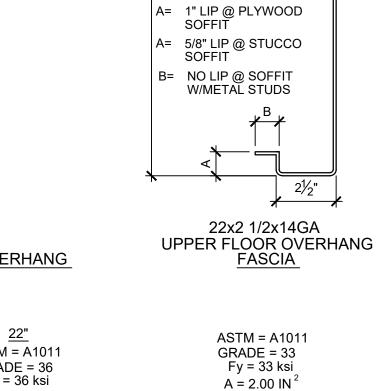
t = 0.0966 IN MIN

(0.1017 IN DESIGN)



t = 0.0966 IN MIN

(0.1017 IN DESIGN)



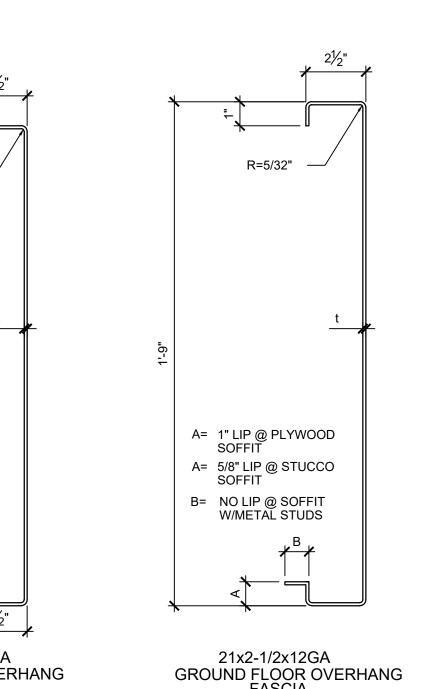
 $Sx = 10.28 IN^{3}$

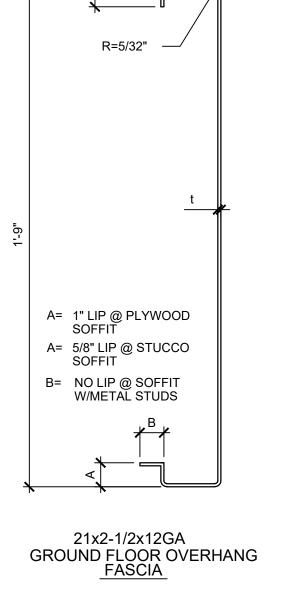
Ix = 114.49 IN ⁴

(0.0713 IN DESIGN)

t = 0.0677 IN MIN

R=1/8"





ASTM = A1011

GRADE = 33

Fy = 33 ksi

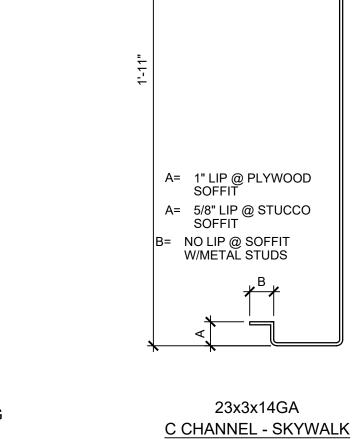
 $A = 2.73 \text{ IN}^2$

 $Sx = 13.38 IN^3$

 $Ix = 142.31IN^4$

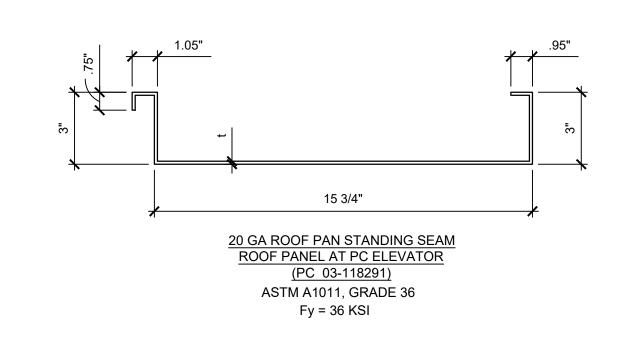
t = 0.0966 IN MIN

(0.1017 IN DESIGN)



ASTM = A1011
GRADE = 33
Fy = 33ksi
A = 2.17 in. $\frac{2}{3}$
$Sx = 12.24 \text{ in.}^3$
$Ix = 140.81 \text{ in.}^4$
t = 0.0677 in. MIN.
(0.0713 in. DESIGNED)

R=1/8"

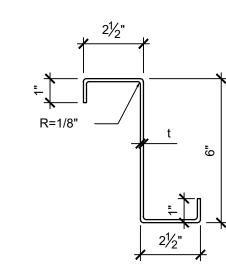


$Sx^{+}(t) = 0.364 \text{ IN}^{3}$	$Sx^{-}(t) = 0.330 \text{ IN}^{-3}$
$Sx^{+}(b) = 1.372 IN^{3}$	$Sx^{-}(b) = 0.305 \text{ IN}^{-3}$
$Ix^{+} = 0.863 IN^{4}$	$Ix = 0.476 IN^4$
	$A = 0.840 \text{ IN}^2$
W/ GALVANIZATION	

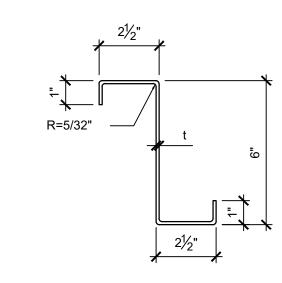
w/ GALVANIZATION t = 0.0356 IN. MIN. w/o GALVANIZATION t = 0.0329 IN. MIN. (0.035 IN. DESIGN)

NOTES:

- 1. MEMBERS TO BE FABRICTED FROM HOT ROLLED SHEETS WITH OPTIONAL RUST INHIBITVE COATING
- 2. UNLESS NOTED OTHERWISE ALL SECTION PROPERTIES ARE GROSS SECTION **PROPERITIES**



6x2 1/2x14GA UPPER FLOOR ROOF PURLIN ASTM = A1011 GRADE = 36 Fy = 36 KSI $A = 0.889 \text{ IN}^2$ $Sx = 1.662 IN^3$ $Ix = 4.985 IN^4$ t = 0.0677 IN MIN (0.0713 IN DESIGN)



6x2 1/2x12GA **GROUND FLOOR** ROOF PURLIN ASTM = A1011 GRADE = 36 Fy = 36 KSI A = 1.245 IN² $Sx = 2.288 IN^3$ $Ix = 6.865 IN^4$ t = 0.0966 IN MIN (0.1017 IN DESIGN)



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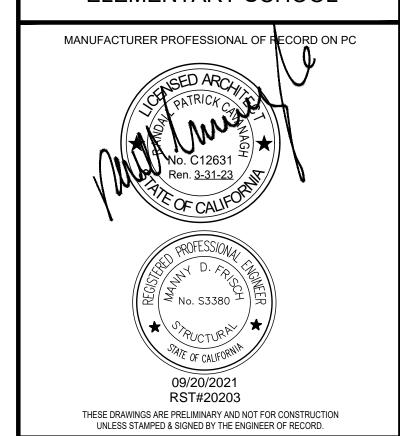
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(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS ELEMENTARY SCHOOL



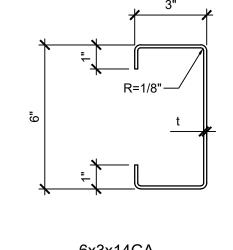
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SCALE:	AS NOTED
DATE:	07/05/21

PROJECT NO: SHEET TITLE:

> LIGHT GAUGE STEEL MEMBER **PROPERTIES**

1614-20

SHEET NUMBER:

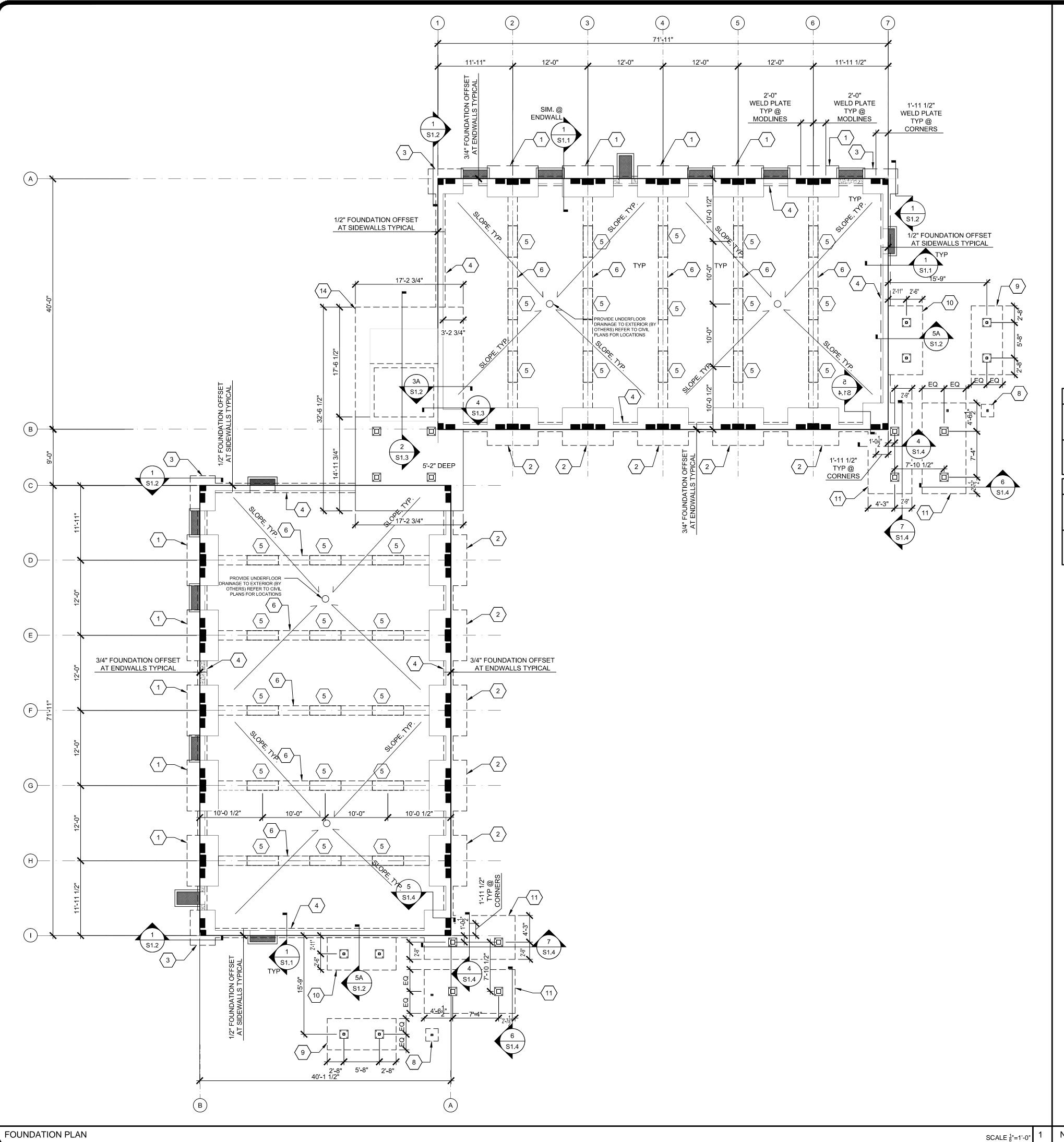


6x3x14GA **C FORMED**

ASTM = A1011 GRADE = 36 Fy = 36 ksi $A = 0.960 \text{ in.}^2$ Sx = 1.870 in.Ix = 5.611 in.⁴ t = 0.0677 in. MIN. (0.0713 in. DESIGNED)

STEEL MEMBER PROPERTIES

NOT TO SCALE



NOTES

- 1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES. 2. CONCRETE MIXTURES:
 - A. CONCRETE STREGTH: FOOTINGS AND SLABS ON GRADE, (DESIGN BASED ON FC=3000 PSI) MINIMUN REQUIREMENTS: PSI @ 28 DAYS = 3500 PSI, MIN. CEMENT TYPE II/V WITH WATER/CEMENT
 - RATIO OF 0.5. AND MAX SLUMP 4"
 - B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION
 - C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH
 - ACI 318-14, SECTION 26.4.4.
 - D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1 E. SEE SHEET N1.0 FOR ADDITIONAL CONCRETE NOTES.
- 3. BUILDING MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 70% OF THE SPECIFIED DESIGN STRENGTH (fc) STATED ABOVE IN NOTE #2. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL:
 - A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.
 - B. FURNISH THE PROJECT IOR AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED
 - THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND C. NOTIFY THE PROJECT IOR AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF
- 4. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2.
- 5. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615. LAP SPLICE PER SCHEDULE 20/S1.3
- 6. DESIGN SOIL BEARING CAPACITY = 2000 PSF (DL ONLY) AND 2500 PSF (DL + LL) PER SOIL REPORT (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605.A.3.2)
- 7. FOR PIPE PENETRATIONS SEE 20/S1.4

FOUNDATION CONCRETE.

- 8. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHOULD VERIFY THAT THE NET AREA OF THE VENT COVER IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED SHOWN IN THE TABLE.
- 9. THE DESIGN OF FLOOR DRAINS UNDER THE BUILDING SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- 10. MODLINE PIERS SHALL BE FORMED AND POURED SO THAT THE TOP OF THE CONCRETE IS AT THE SAME ELEVATION AS THE TOP OF THE COLUMN WELD PLATES SHOWN IN DETAILS 2/S1.1 & 1/S1.2 SHIM PLATES PER DETAIL 5/S1.3 MAY BE USED WHERE REQUIRED

VENTILATION SCHEDULE BUILDING A									
Choop Area I								Vent Net Area Provided (FT2	
72' x 40"	71' x 10"	2880	2389	15.9	1	1	3	17.8	
VENTILATION SCHEDULE BUILDING B									
	\	/ENTILATION	I SCHEDULE B	BUILDING B					
Project Specific Building Size	Total Building Width	/ENTILATION Total Floor Area (FT2)	Actual Crawl Space Area required to be vented (FT2)	Vent. Net Area	Min. Total # 3'x24" access Vents (3 sq. ft.)	Min. Total # 4'x12" access Vents (3.12 sq. ft.)	Min. Total # 3'-10"x16" Vents (3.9 sq. ft.)	Vent Net Are Provided (FT	

	FOOTII	NG SCHEDULE	
Type Mark	Туре	Reference Detail	Remark
(1)	8'-1 1/2" x 5'-0" x 18" DP	(2/S1.1)	
2	8'-1 1/2" x 6'-0" x 18" DP	(1/S1.2)	
3	5'-7 1/4" x 4'-0" x 18" DP	(2/S1.1)	
4	1'-6"W CONT. x 18" DP	(1/S1.1)	
5	1'-6"W x 5'-0"L x 36"- 42" DP	(4/S1.1)	
6	1'-6"W CONT. x 18" DP	(4/S1.1)	
(14)	17'-2 3/4" x 32'-6 1/2"	(PC 03-118291)	
<u> </u>			
Type Mark	Туре	Reinforcement	
8	2'-0" SQ. x 18" DP	(3) #4 E.W. T&B	10 ½" BELOW F.F. 18" DEEP
9	5'-0"W x 11'-0"L x 24" DP	(6) #6 LONG. T&B & #6 TRANS. @ 8" O.C. T&B	10 ½" BELOW F.F. 24" DEEP
(10)	5'-2"W x 11'-0"L x 3'-2" DP	(6) #6 LONG. T&B & #6 TRANS. @ 8" O.C. T&B	SEE DETAIL 5A/S1.2 10 ½" BELOW F.F. 5'-2" DEEP
(11)	7'-0"W x 14'-6"L x 3'-2" DP MIN	(9) #6 LONG. T&B & #6 TRANS. @ 8" O.C. T&B	SEE DETAILS 5, 6 & 7/S1. 10 ½" BELOW F.F. 5'-2" DEEP



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SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS **ELEMENTARY SCHOOL**





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DRAWN BY: AS NOTED PROJECT NO:

FOUNDATION PLAN

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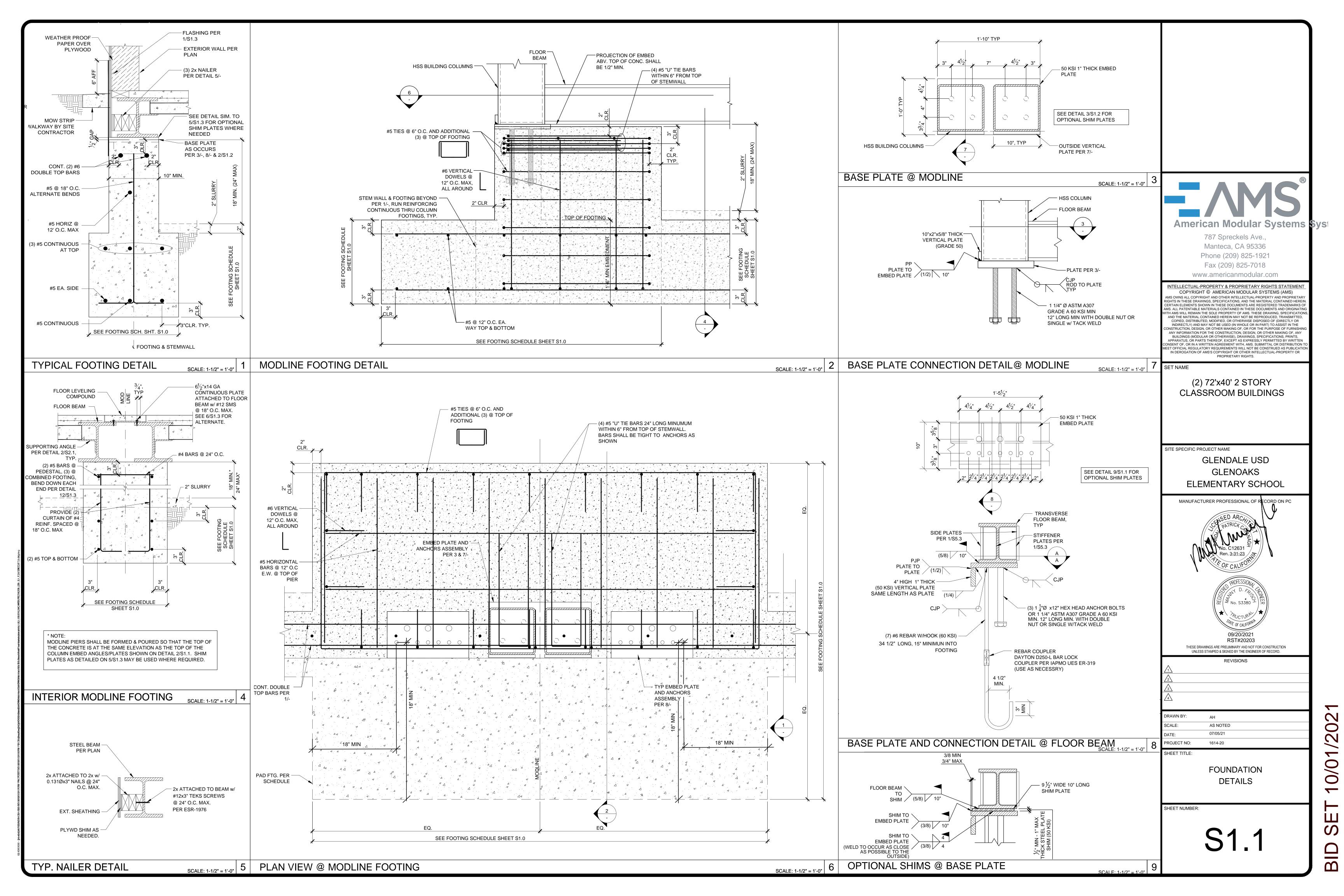
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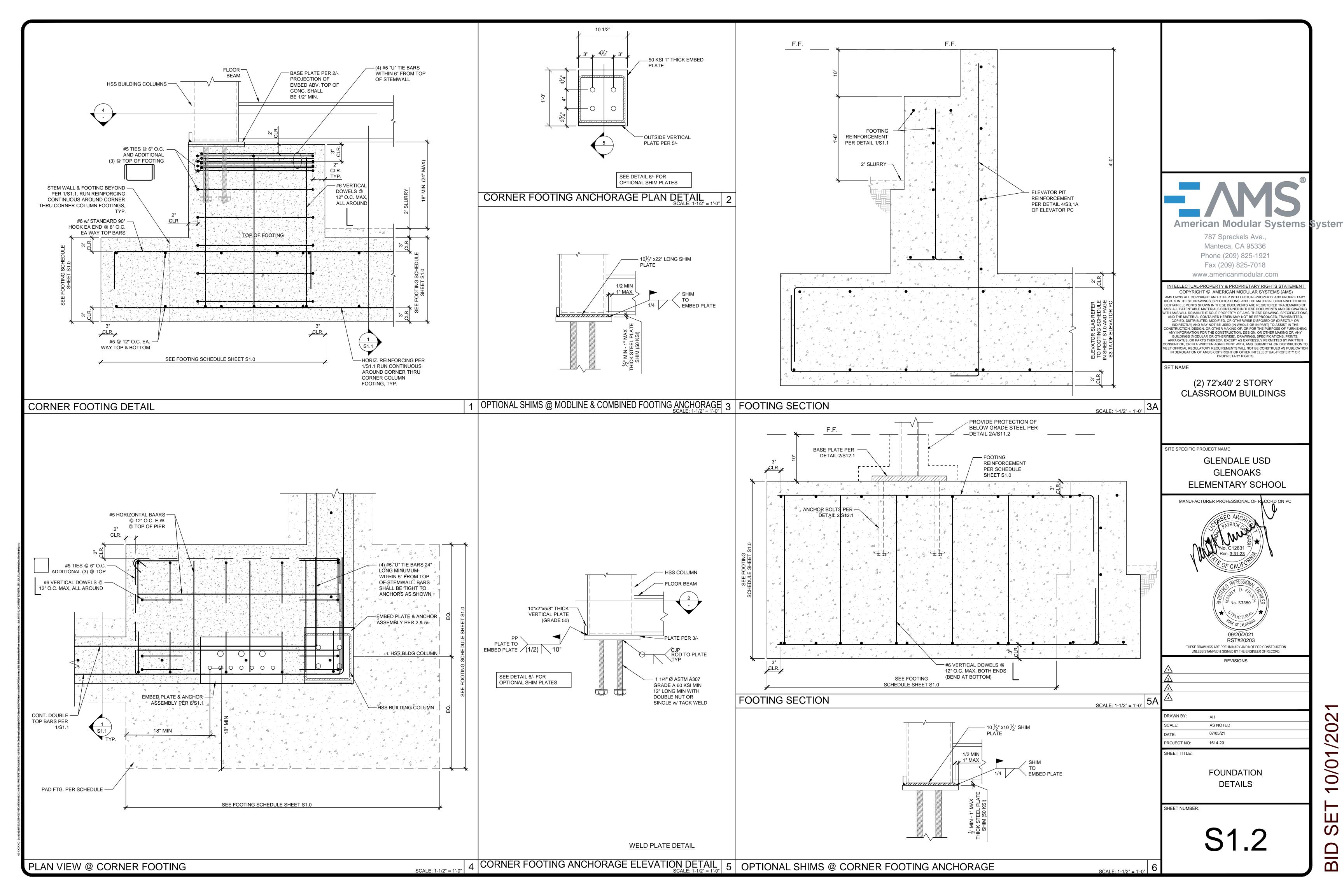
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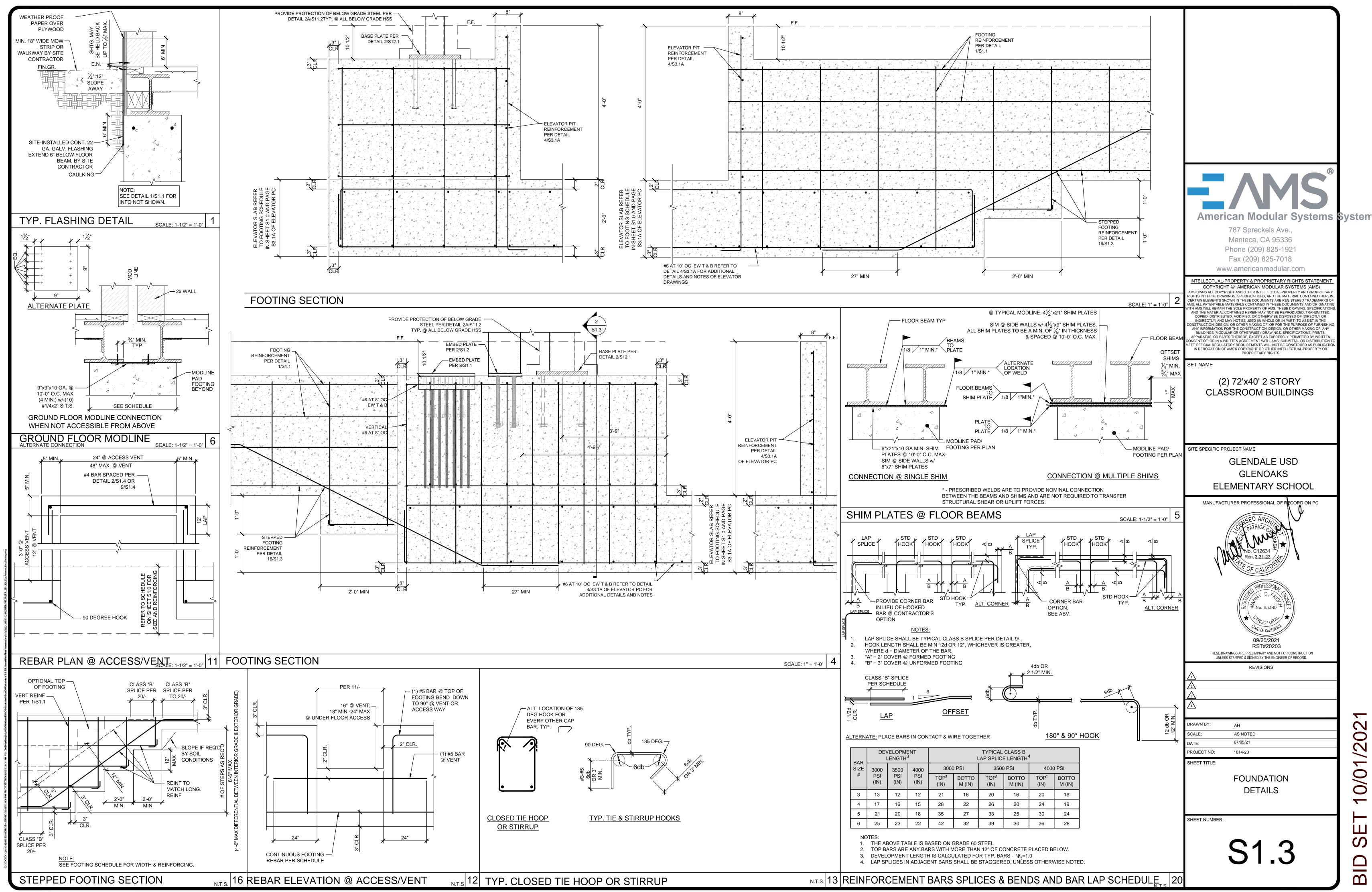
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S1.0

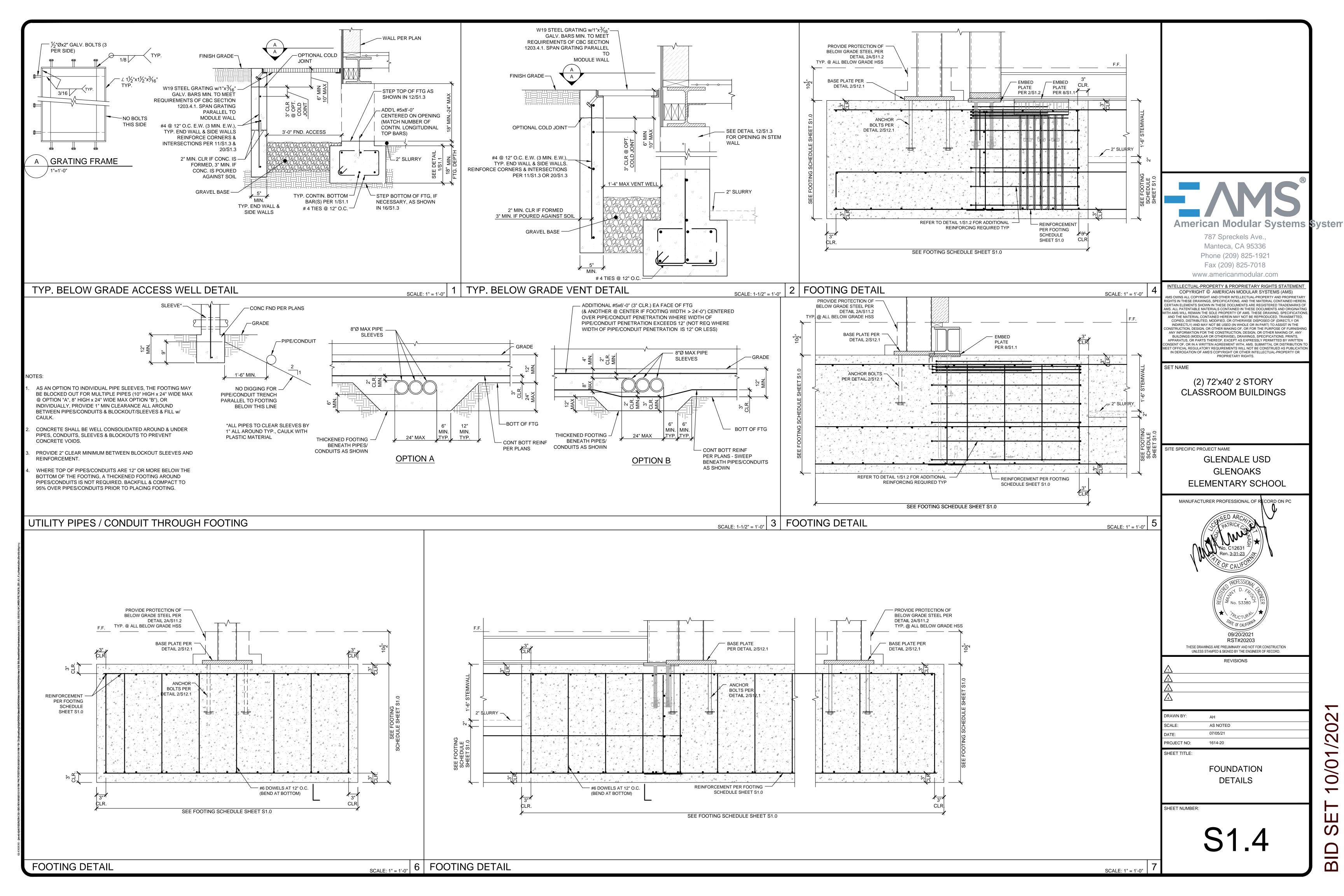
NOTES







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1 FLOOR BEAM PER SCHEDULE 3B/S5.0

2 HSS COLUMN PER SCHEDULE 3B/S5.0

2" LIGHT WEIGHT CONCRETE FILL w/ 6x6-W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 18 GA 3W OR 3WH GALVANIZED DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR DECK PROPERTIES AND ATTACHMENT PATTERN.

KEY NOTES

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SET NAME

(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME

GLENDALE USD
GLENOAKS
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

SED ARCA

PATRICA CA

No. C12631

Ren. 3-31-23

PARCA

No. C12631

Ren. 3-31-23

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REVISIONS

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 DRAWN BY:
 AH

 SCALE:
 AS NOTED

 DATE:
 08/10/21

 PROJECT NO:
 1613-20

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10/0

BID

SHEET TITLE:

FLOOR FRAMING PLAN GROUND FLOOR

SHEET NUMBER:

S2.0

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1 FLOOR BEAM PER SCHEDULE 3B/S5.0

2 HSS COLUMN PER SCHEDULE 3B/S5.0

2" LIGHT WEIGHT CONCRETE FILL w/ 6x6-W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 18 GA 3W OR 3WH GALVANIZED DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR DECK PROPERTIES AND ATTACHMENT PATTERN.

4 FLOOR CHASE OPENING

5 W4x13 BEAM REINFORCEMENT AT OPENINGS

KEY NOTES

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PATRICA

Ren. 3-31-23

Ren. 3-31-23

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REVISIONS

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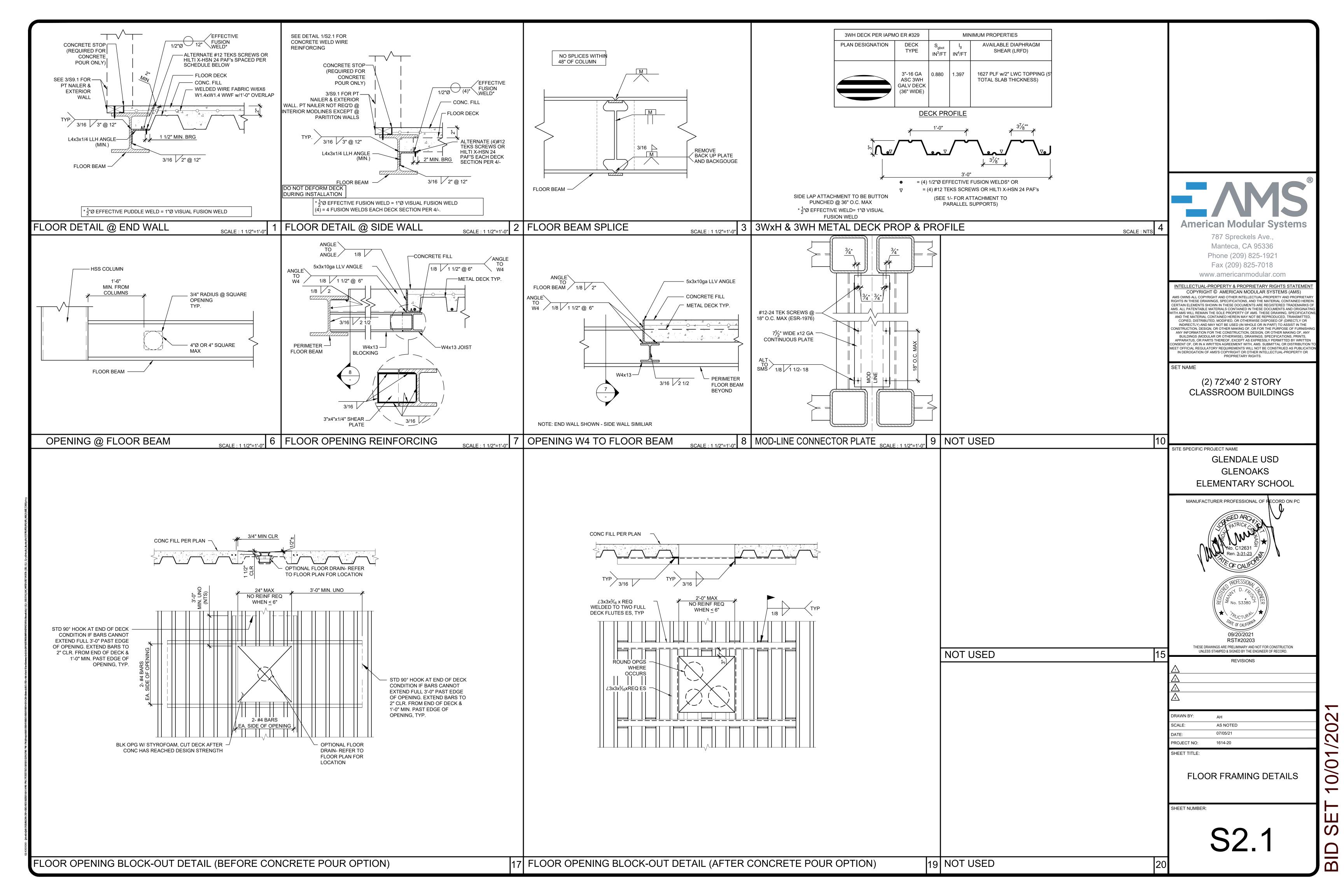
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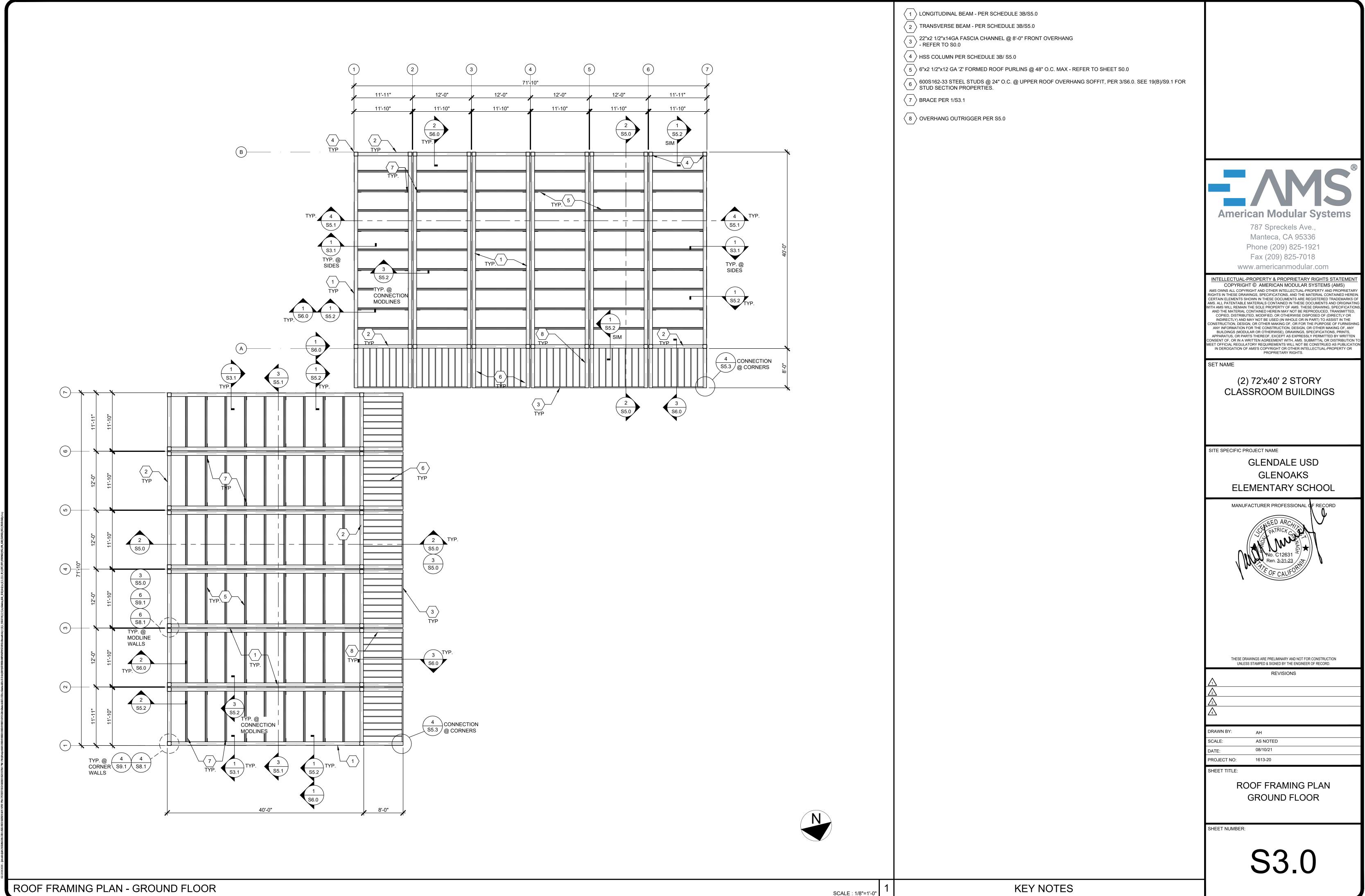
FLOOR FRAMING PLAN UPPER FLOOR

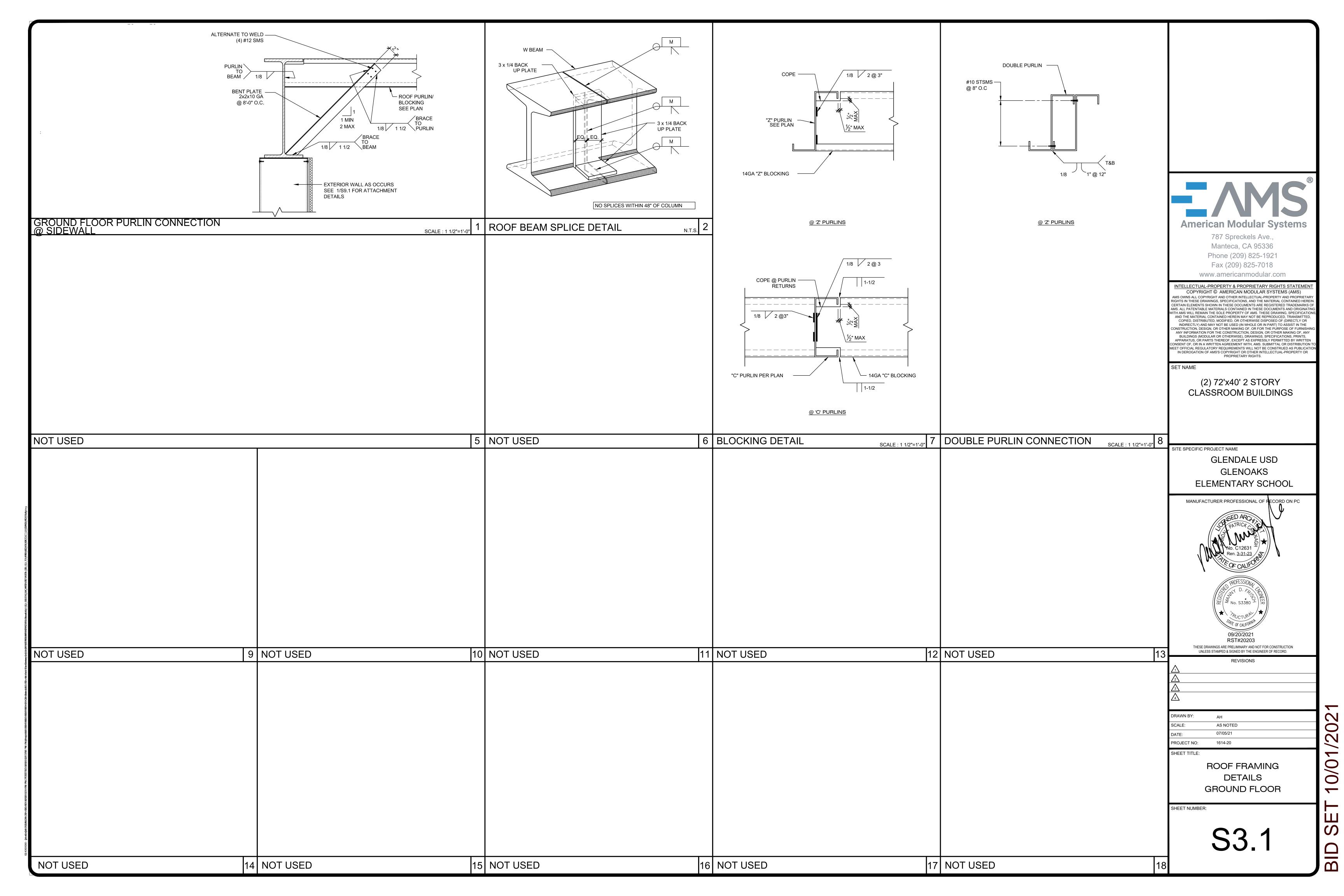
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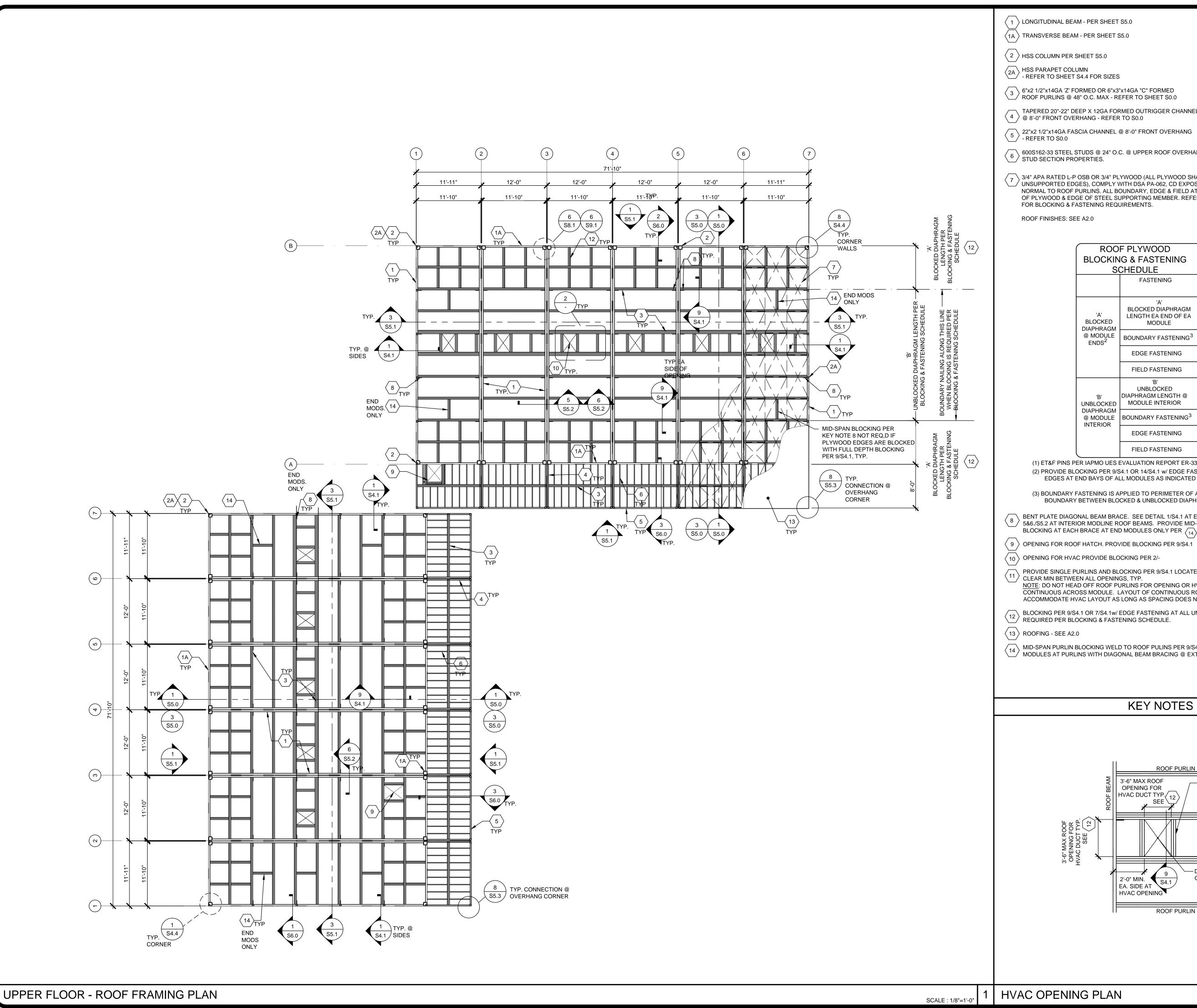
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- $\langle 1 \rangle$ LONGITUDINAL BEAM PER SHEET S5.0
- \langle 1A \rangle TRANSVERSE BEAM PER SHEET S5.0

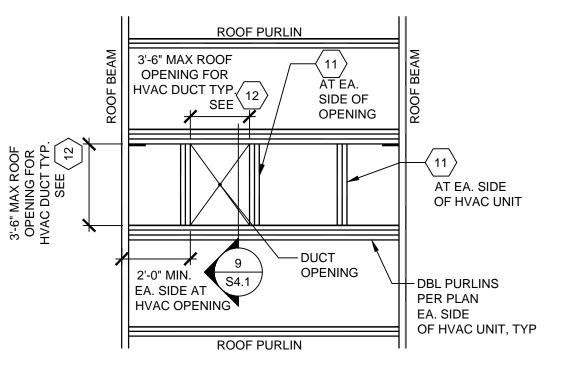
- 6"x2 1/2"x14GA 'Z' FORMED OR 6"x3"x14GA "C" FORMED ROOF PURLINS @ 48" O.C. MAX - REFER TO SHEET S0.0
- TAPERED 20"-22" DEEP X 12GA FORMED OUTRIGGER CHANNEL
- \langle 4 \rangle @ 8'-0" FRONT OVERHANG REFER TO S0.0
- √ 600S162-33 STEEL STUDS @ 24" O.C. @ UPPER ROOF OVERHANG SOFFIT, PER 3/S6.0. SEE 19(B)/S9.1 FOR
- / 3/4" APA RATED L-P OSB OR 3/4" PLYWOOD (ALL PLYWOOD SHALL BE EITHER T&G OR EDGE CLIPPED AT ___/ UNSUPPORTED EDGES), COMPLY WITH DSA PA-062, CD EXPOSURE-1 48/24 SPAN INDEX, FACE GRAIN NORMAL TO ROOF PURLINS. ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER. REFER TO BLOCKING & FASTENING SCHEDULE FOR BLOCKING & FASTENING REQUIREMENTS.

BLOCKIN	F PLYWOOD IG & FASTENING CHEDULE		
	FASTENING	#10 SMS	0.144"Ø ET&F PINS ¹
'A' BLOCKED DIAPHRAGM	'A' BLOCKED DIAPHRAGM LENGTH EA END OF EA MODULE	8'-0"	4'-0"
@ MODULE ENDS ²	BOUNDARY FASTENING ³	4" O.C.	4" O.C.
	EDGE FASTENING	4" O.C.	4" O.C.
	FIELD FASTENING	12" O.C.	6" O.C.
'B' UNBLOCKED	'B' UNBLOCKED DIAPHRAGM LENGTH @ MODULE INTERIOR	24"-0"	32"-0"
DIAPHRAGM @ MODULE INTERIOR	BOUNDARY FASTENING ³	6" O.C.	6" O.C.
INTERIOR	EDGE FASTENING	6" O.C.	6" O.C.
	FIELD FASTENING	12" O.C.	6" O.C.

(1) ET&F PINS PER IAPMO UES EVALUATION REPORT ER-335

- (2) PROVIDE BLOCKING PER 9/S4.1 OR 14/S4.1 w/ EDGE FASTENING AT ALL UNSUPPORTED PLYWOOD EDGES AT END BAYS OF ALL MODULES AS INDICATED ON ROOF PLAN AND SCHEDULE ABOVE.
- (3) BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG ALL FRAME LINES AND A BOUNDARY BETWEEN BLOCKED & UNBLOCKED DIAPHRAGMS WHERE INDICATED ON ROOF PLAN.
- BENT PLATE DIAGONAL BEAM BRACE. SEE DETAIL 1/S4.1 AT EXTERIOR SIDE WALL ROOF BEAMS & DETAILS 5&6./S5.2 AT INTERIOR MODLINE ROOF BEAMS. PROVIDE MID-SPAN PURLINS BLOCKING AT EACH BRACE AT END MODULES ONLY PER $\binom{14}{14}$ BELOW.
- \langle 9 \rangle OPENING FOR ROOF HATCH. PROVIDE BLOCKING PER 9/S4.1
- $\langle 10 \rangle$ OPENING FOR HVAC PROVIDE BLOCKING PER 2/-
- PROVIDE SINGLE PURLINS AND BLOCKING PER 9/S4.1 LOCATE OPENINGS PER ROOF PLAN & PROVIDE 48" CLEAR MIN BETWEEN ALL OPENINGS, TYP. NOTE: DO NOT HEAD OFF ROOF PURLINS FOR OPENING OR HVAC FRAMING. ALL ROOF PURLINS SHALL BE CONTINUOUS ACROSS MODULE. LAYOUT OF CONTINUOUS ROOF PURLINS MAY BE ADJUSTED TO ACCOMMODATE HVAC LAYOUT AS LONG AS SPACING DOES NOT EXCEED 48" O.C.
- BLOCKING PER 9/S4.1 OR 7/S4.1w/ EDGE FASTENING AT ALL UNSUPPORTED PLYWOOD EDGES WHEN REQUIRED PER BLOCKING & FASTENING SCHEDULE.
- MID-SPAN PURLIN BLOCKING WELD TO ROOF PULINS PER 9/S4.1. BLOCKING IS ONLY REQUIRED AT END MODULES AT PURLINS WITH DIAGONAL BEAM BRACING @ EXTERIOR SIDE WALLS PER 8 ABOVE

KEY NOTES





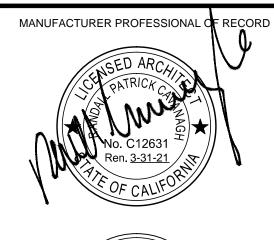
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(2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS **ELEMENTARY SCHOOL**





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DRAWN BY: SCALE: AS NOTED 12/04/20 PROJECT NO: 1614-20

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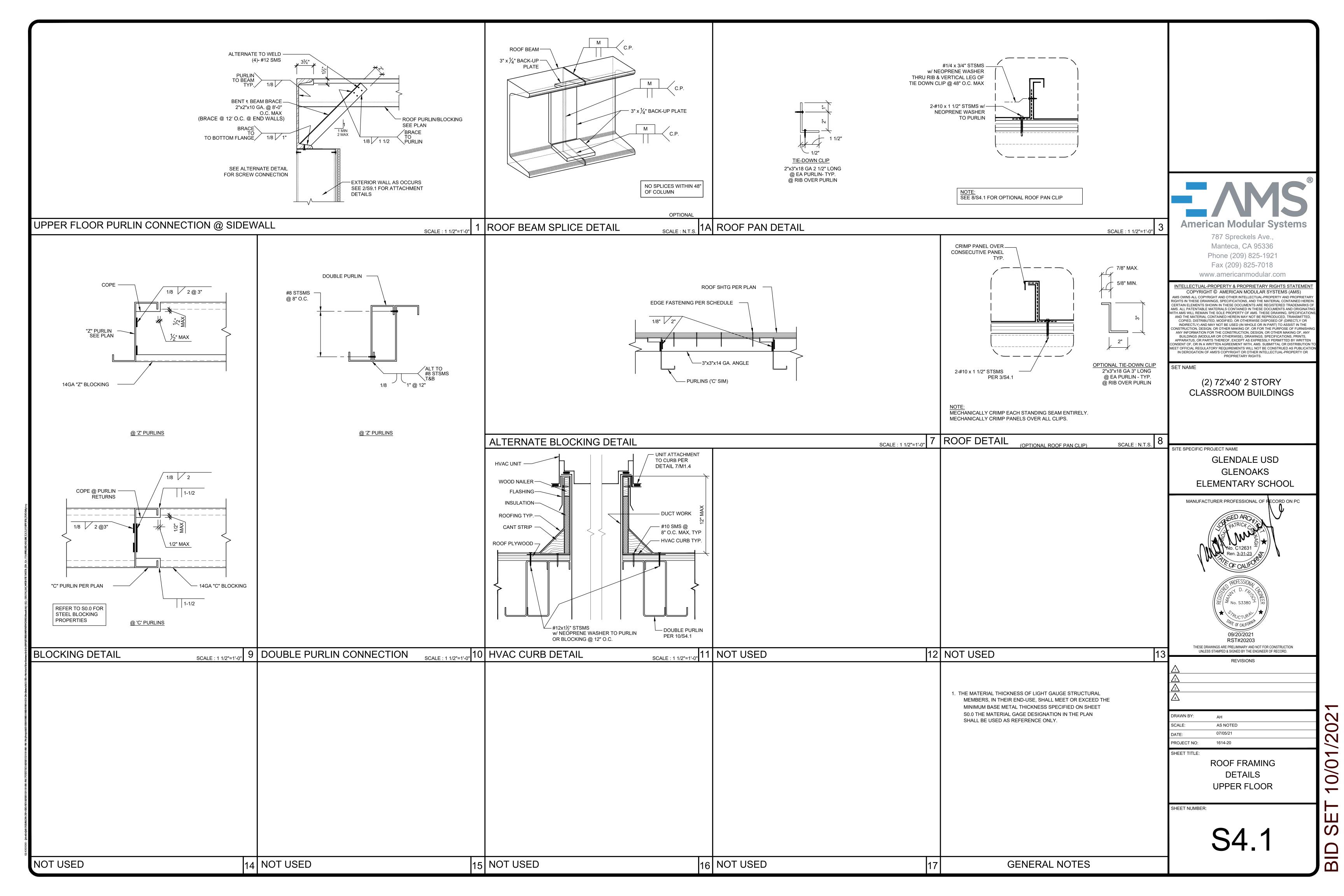
ROOF FRAMING PLAN **UPPER FLOOR**

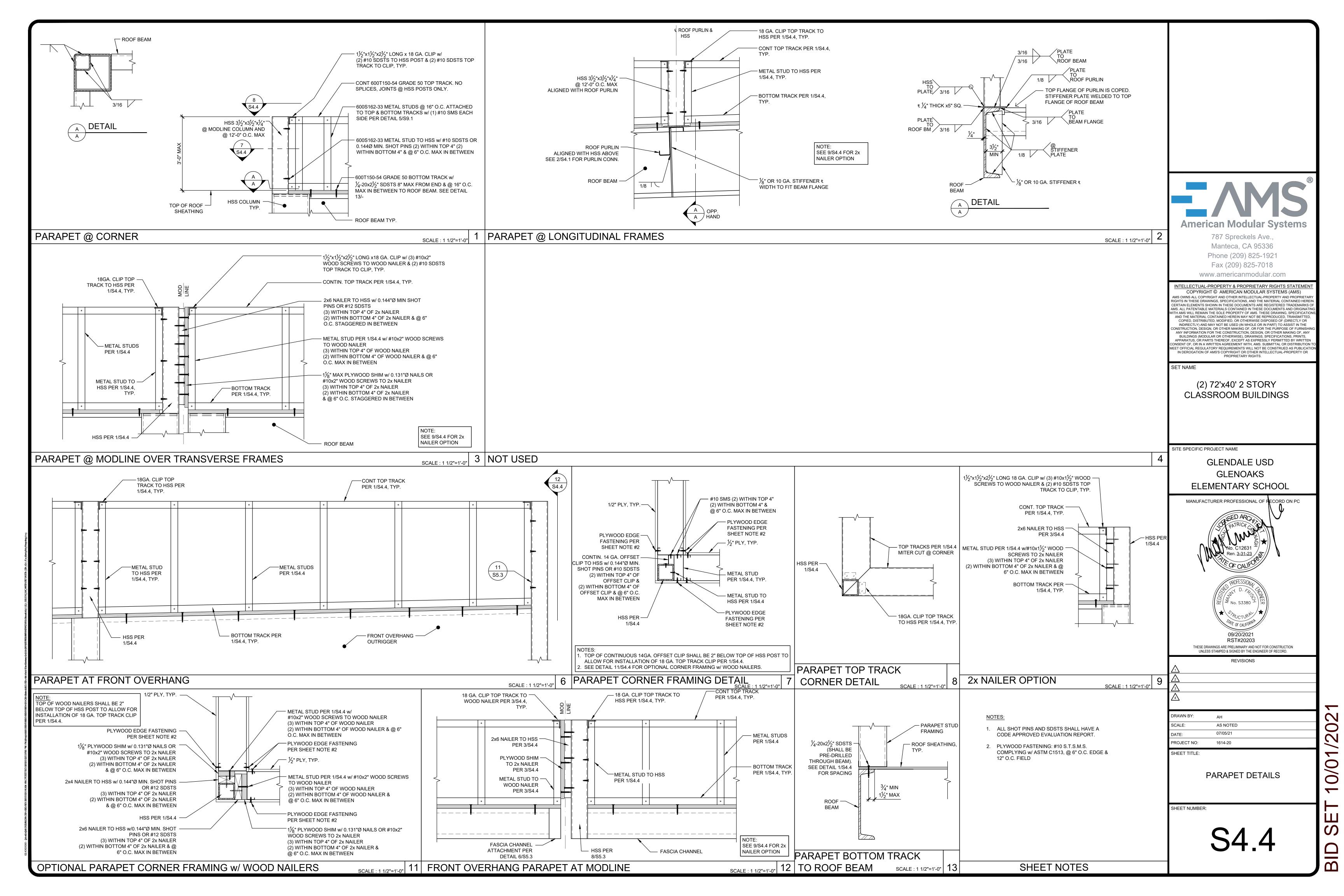
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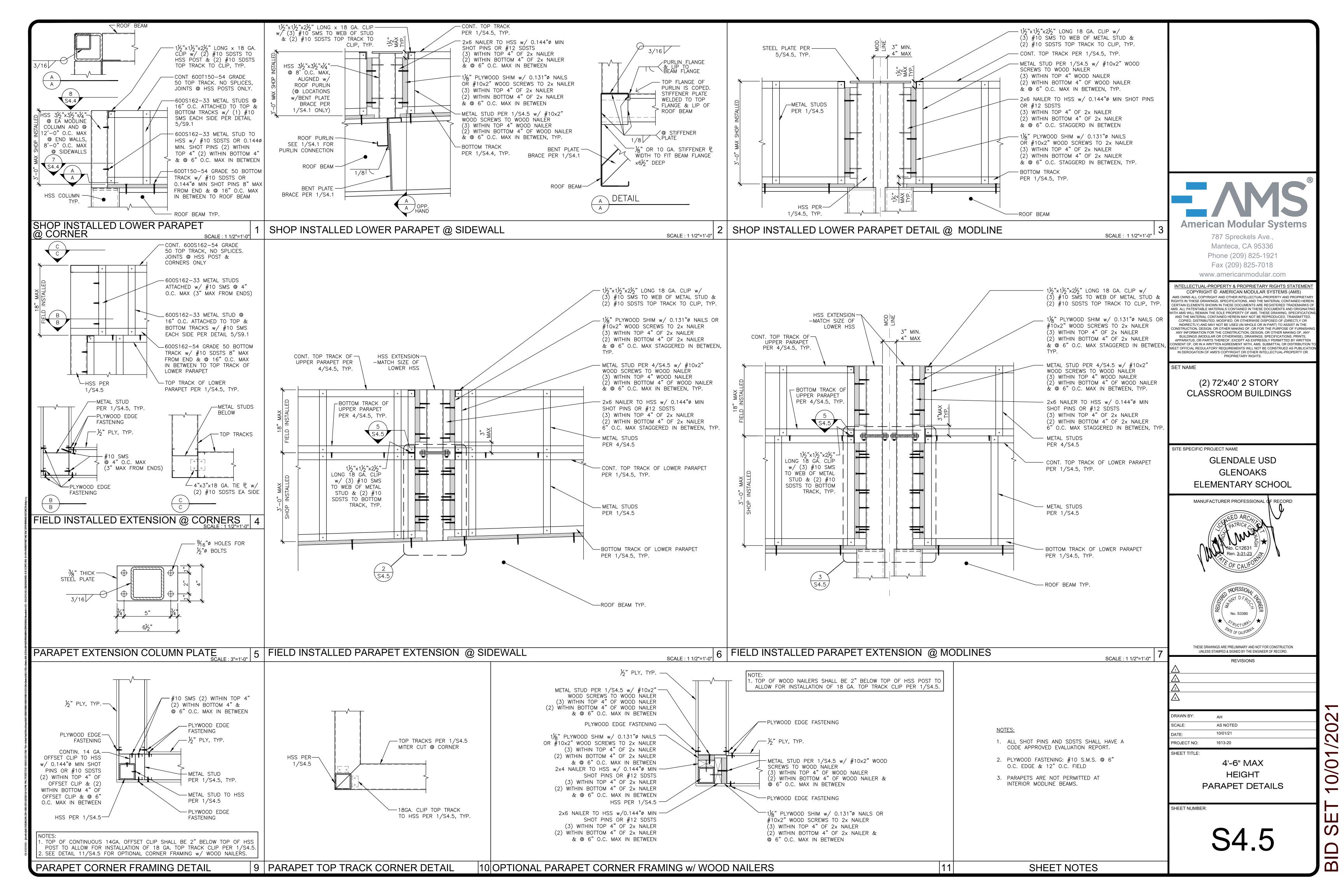
HVAC OPENING PLAN

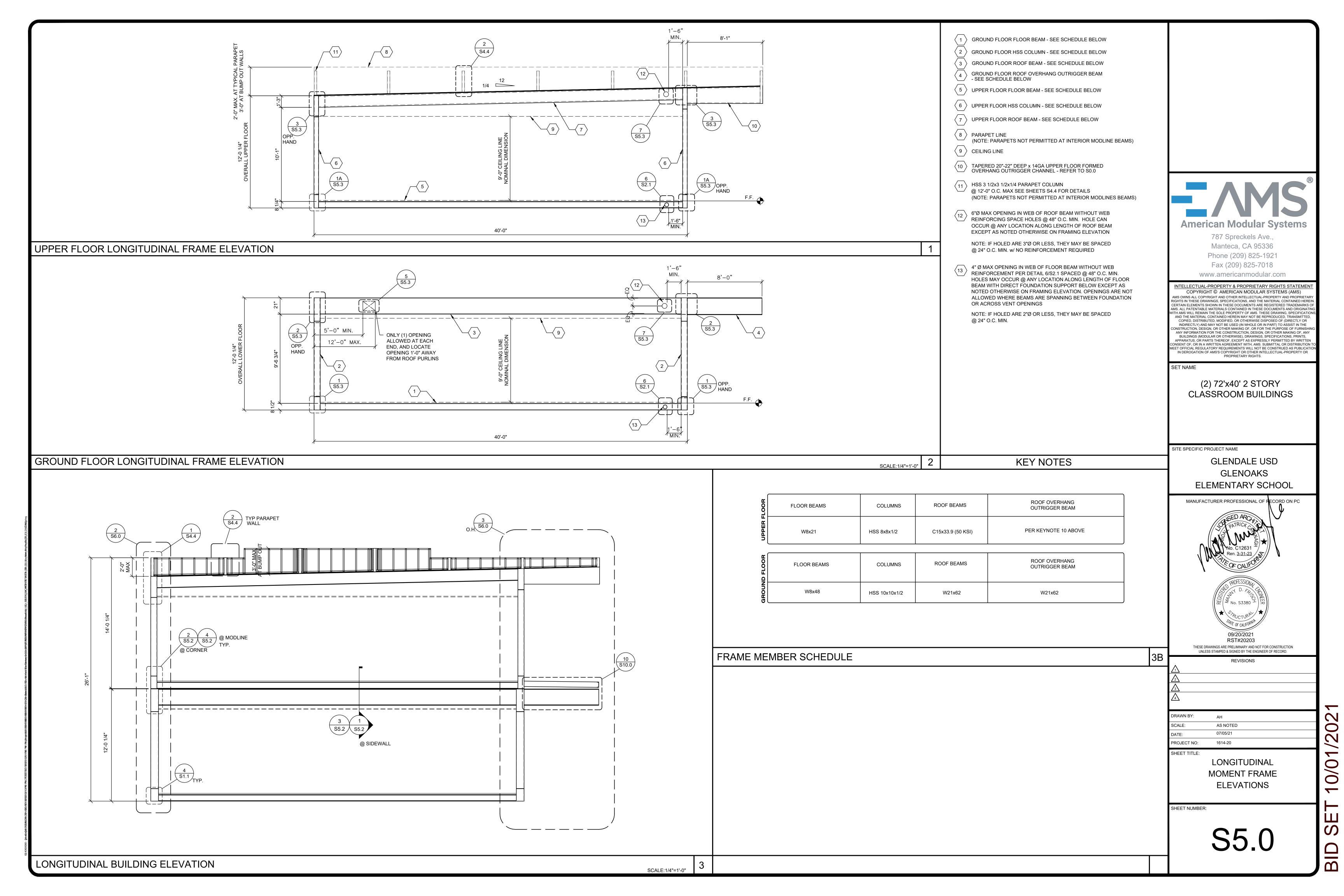
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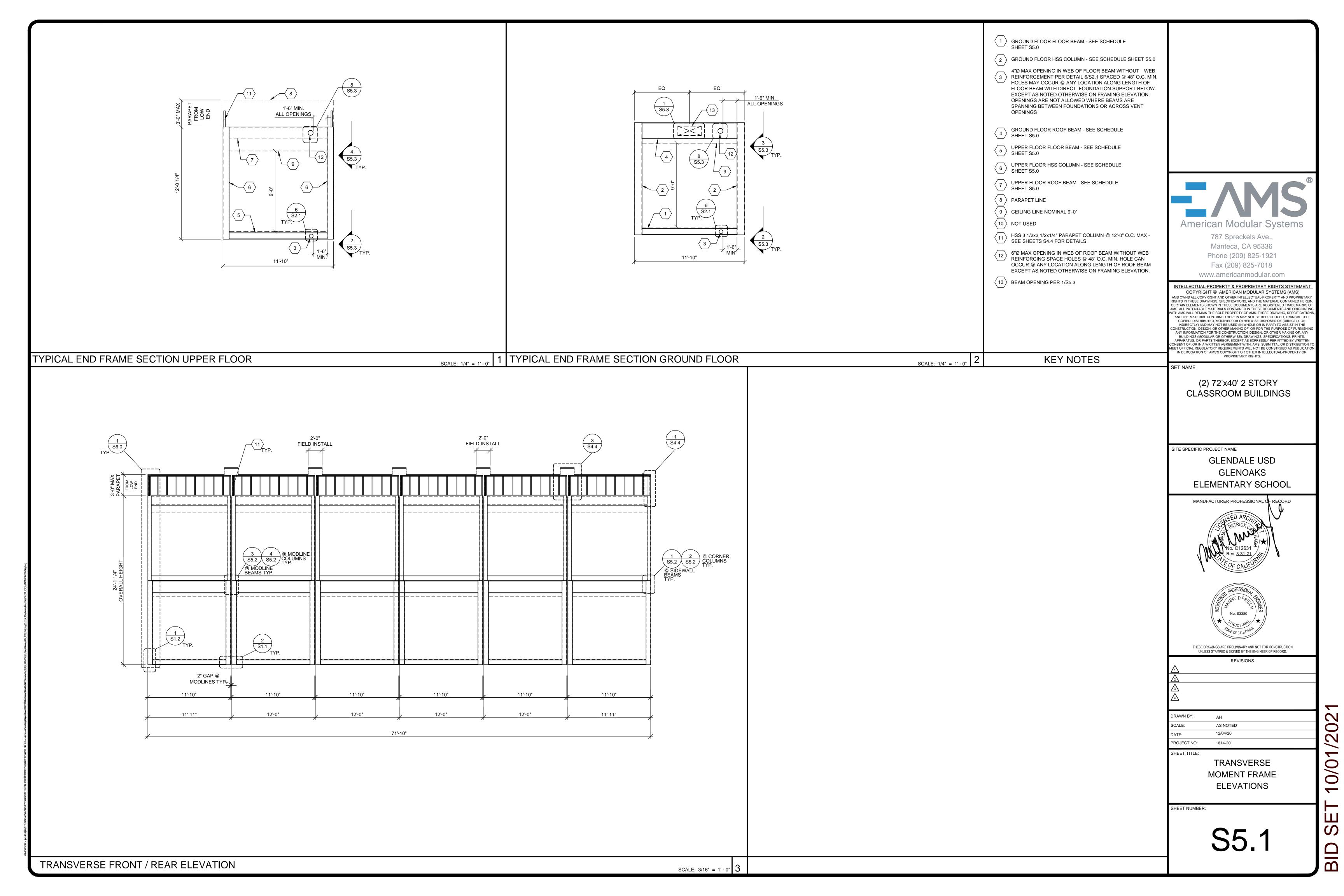
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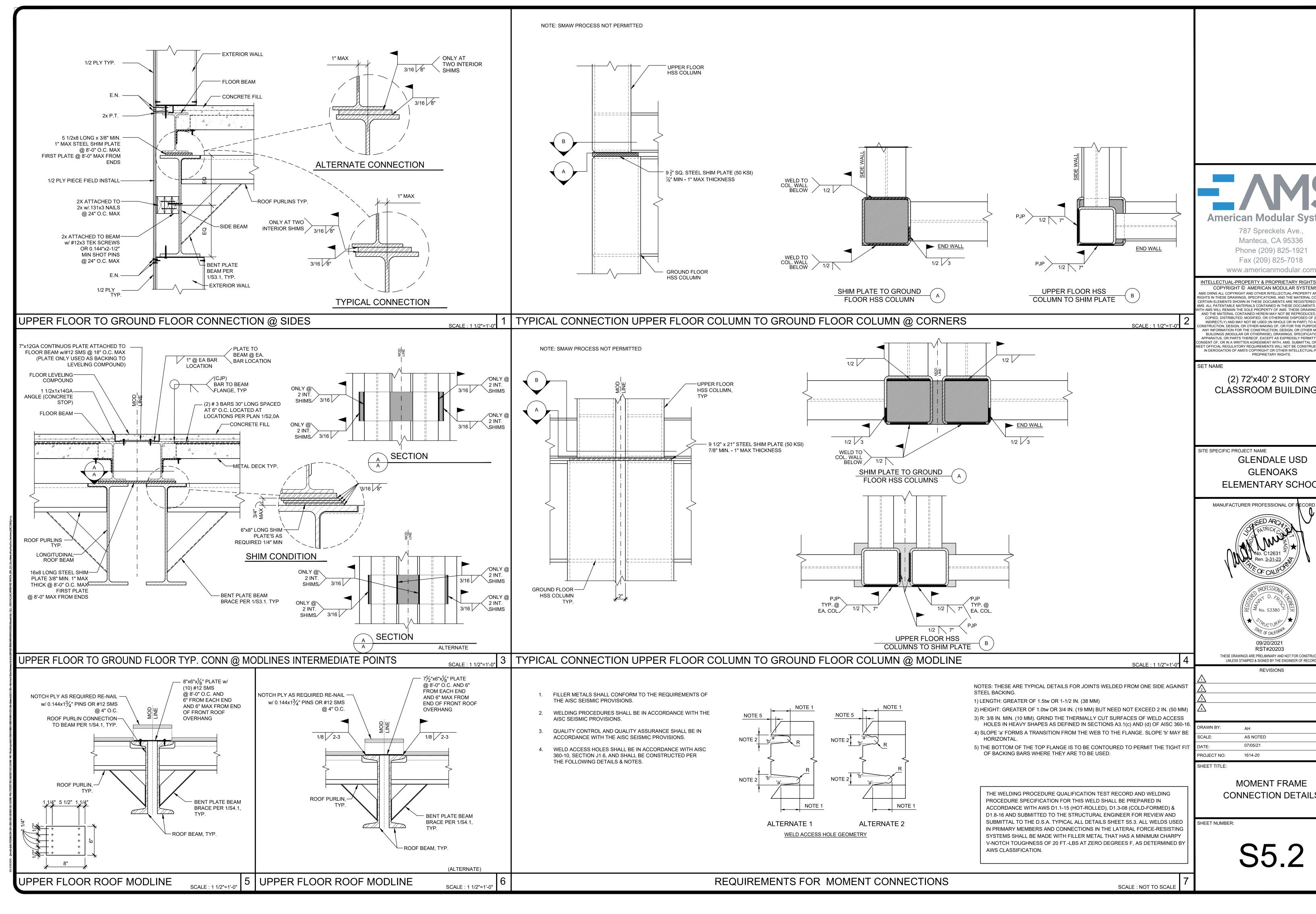












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> (2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME **GLENDALE USD** GLENOAKS **ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC 09/20/2021 RST#20203 THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS 20 AS NOTED 07/05/21 1614-20

> MOMENT FRAME **CONNECTION DETAILS**

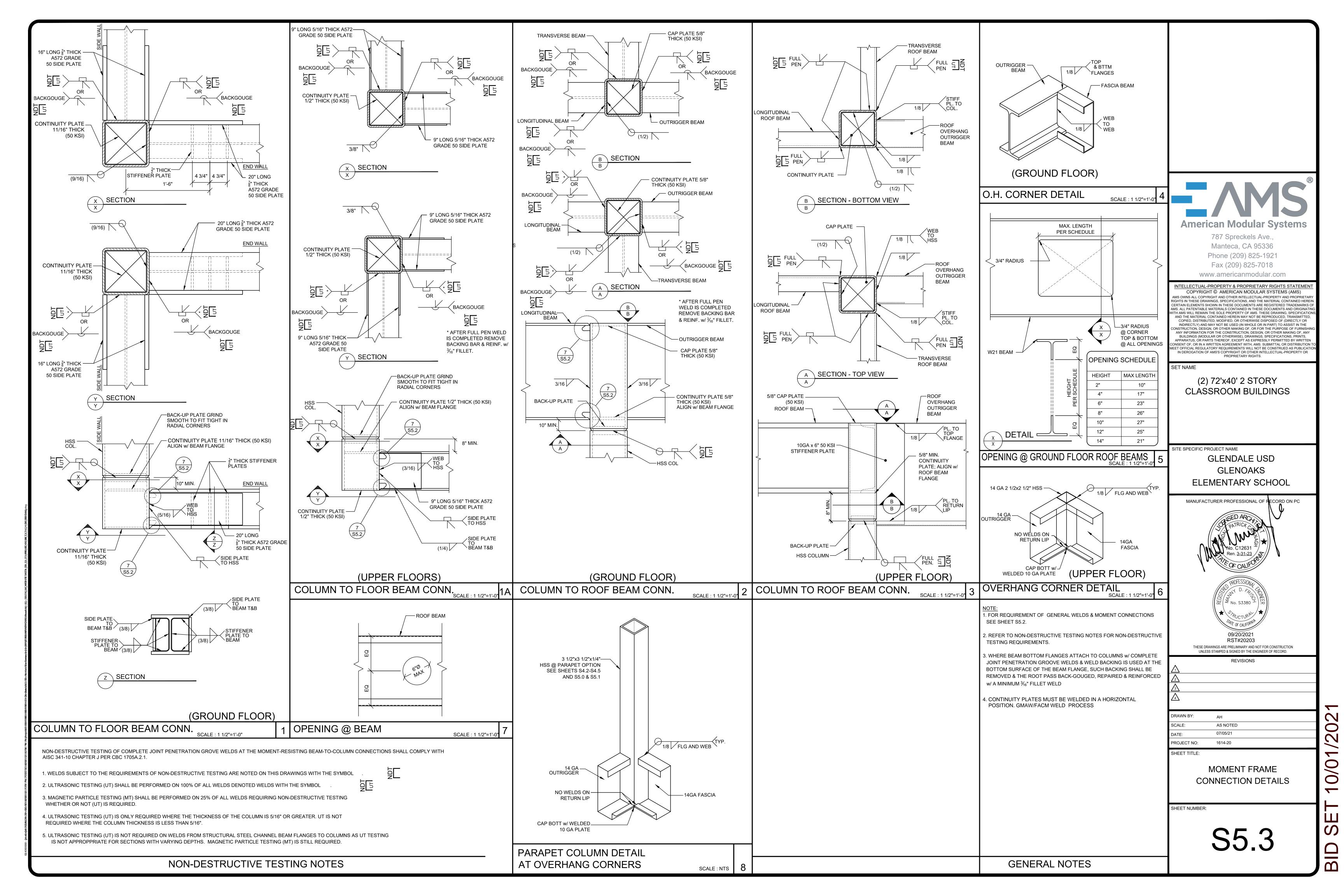
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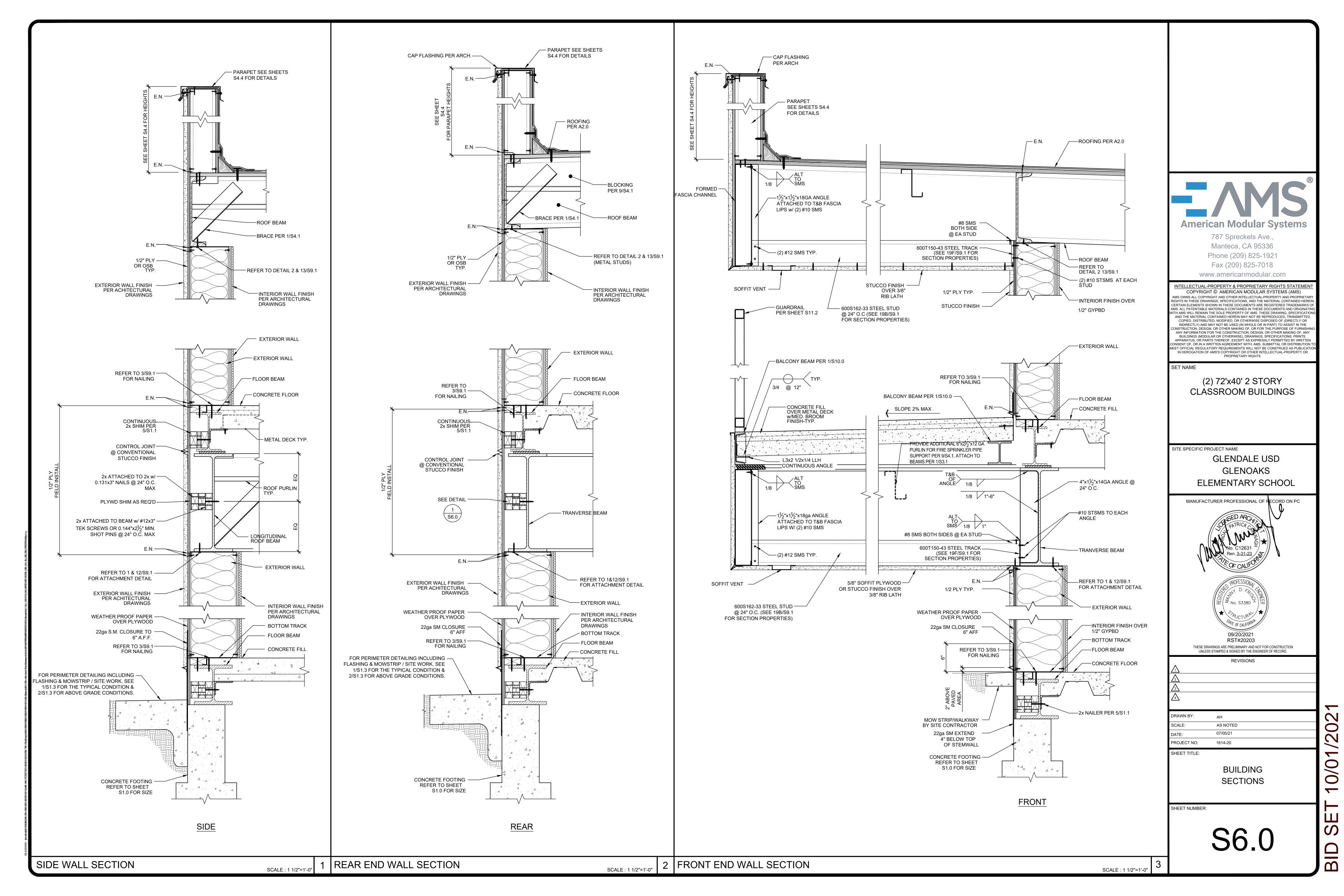
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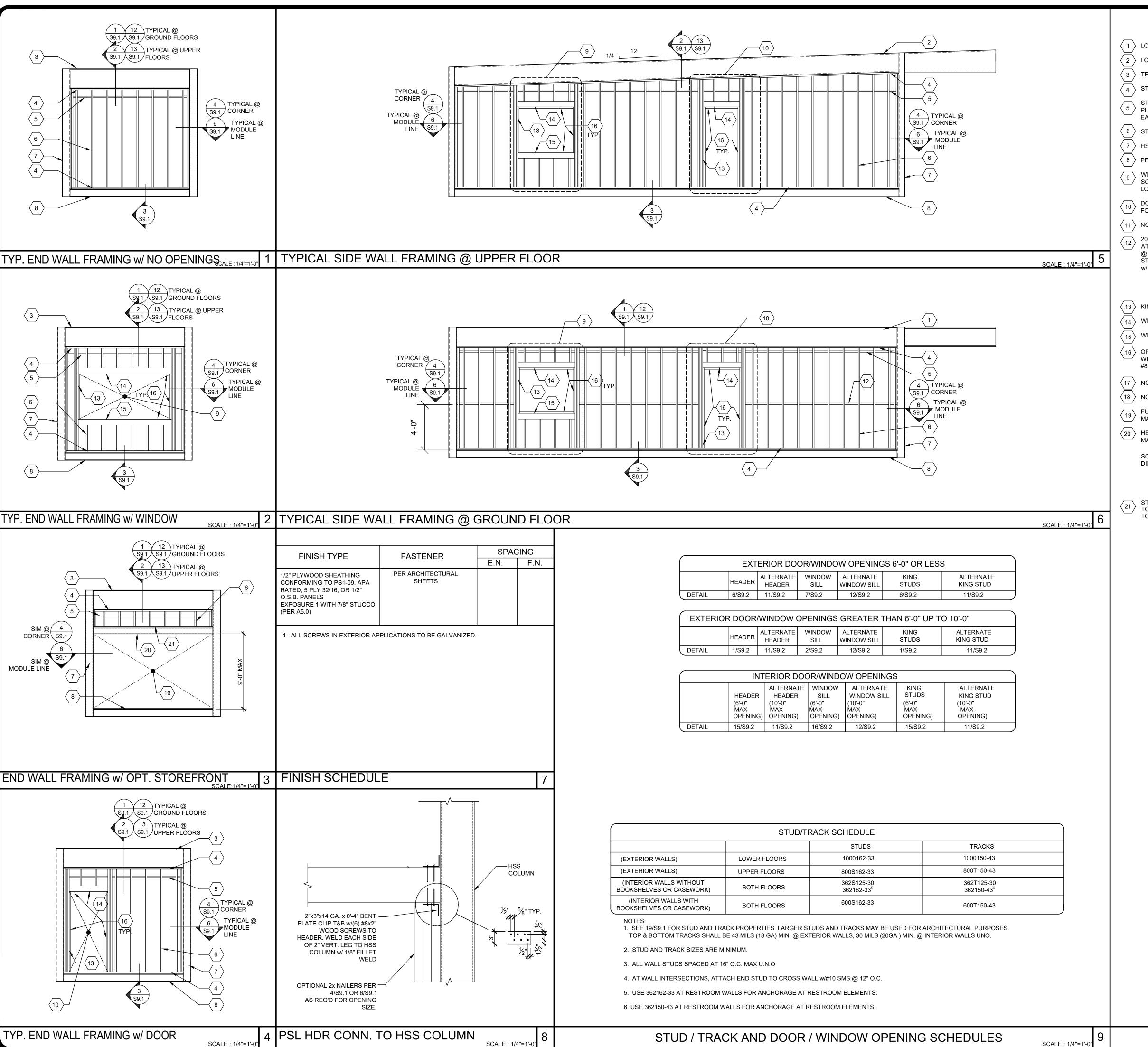
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S5.2







1 > LONGITUDINAL GROUND FLOOR ROOF BEAM

LONGITUDINAL UPPER FLOOR ROOF BEAM

TRANSVERSE ROOF BEAM

STEEL TRACK PER STUD/TRACK SCHEDULE 9/-

5 STEEL BLOCKING SAME SIZE AS STEEL STUDS @ HORIZONTAL PLYWOOD EDGES - REFER TO DETAIL 17/S9.1 FOR CONNECTION AT EACH END OF BLOCKING TO STUD

 \langle 6 \rangle STEEL STUDS PER STUD/TRACK SCHEDULE 9/- @ 16" O.C. TYP.

7 HSS COLUMN

⟨ 8 ⟩ PERIMETER FLOOR BEAM

WINDOW OPENING MAX 10'-0" WIDE (REFER TO OPENING SCHEDULE 9/S9.0 & 2/S9.0 FOR DETAILS)- SEE FLOOR PLANS FOR LOCATIONS

DOOR OPENING (REFER TO OPENING SCHEDULE 9/S9.0 & 4/S9.0 FOR DETAILS)- SEE FLOOR PLANS FOR LOCATIONS

 $\langle 11 \rangle$ NOT USED

20GA 1 1/2" WIDE STRAP AT INTERIOR AND EXTERIOR SIDE.
ATTACH TO EACH STUD WITH (1) #10 SMS AND PROVIDE (1) BLOCK @ 8'-0" O.C. ATTACHED TO STUDS PER DETAIL 17/S9.1. ATTACH STRAP TO BLOCK w/ #10 SMS @ 4" O.C

 \langle 13 \rangle KING STUD PER OPENING SCHEDULES 9/-

 \langle $_{14}\,
angle$ WINDOW/DOOR HEADER PER OPENING SCHEDULES 9/-

(15) WINDOW SILL PER OPENING SCHEDULES 9/-

 \langle 16 \rangle OPTIONAL 2x WOOD TRIMMER FOR ATTACHMENT OF WINDOW/DOOR FRAME. ATTACH TO METAL STUDS w/ #8 SMS @ 8" O.C. MAX. STAGGERED.

(17) NOT USED

(18) NOT USED

FULL-WIDTH STOREFRONT OPENING (STOREFRONT BY OTHERS)
MAX STORY DRIFT RATIO = 2.0%

HEADER @ OPTIONAL FULL-WIDTH STOREFRONT OPENING MAX LIVE LOAD DEFLECTION = 0".

SOLID 5 1/4"x7" (1.8E) PARALLAM PSL HEADER (ESR-1387) ATTACHED DIRECTLY TO HSS COLUMNS - SEE 8/-

KEY NOTES

STEEL TRACK PER 9/S9.0 w/#8x1½" WOOD SCREWS @ 16" O.C. TO PARALLAM PSL HEADER & #8x1" STSDS SCREWS @ 16" 0.C. TO HSS HEADER.

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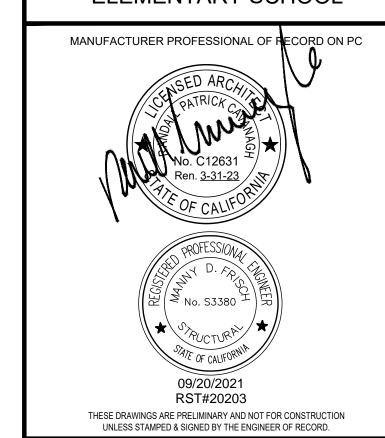
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SET NAME

(2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS ELEMENTARY SCHOOL



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DATE:	07/05/21	
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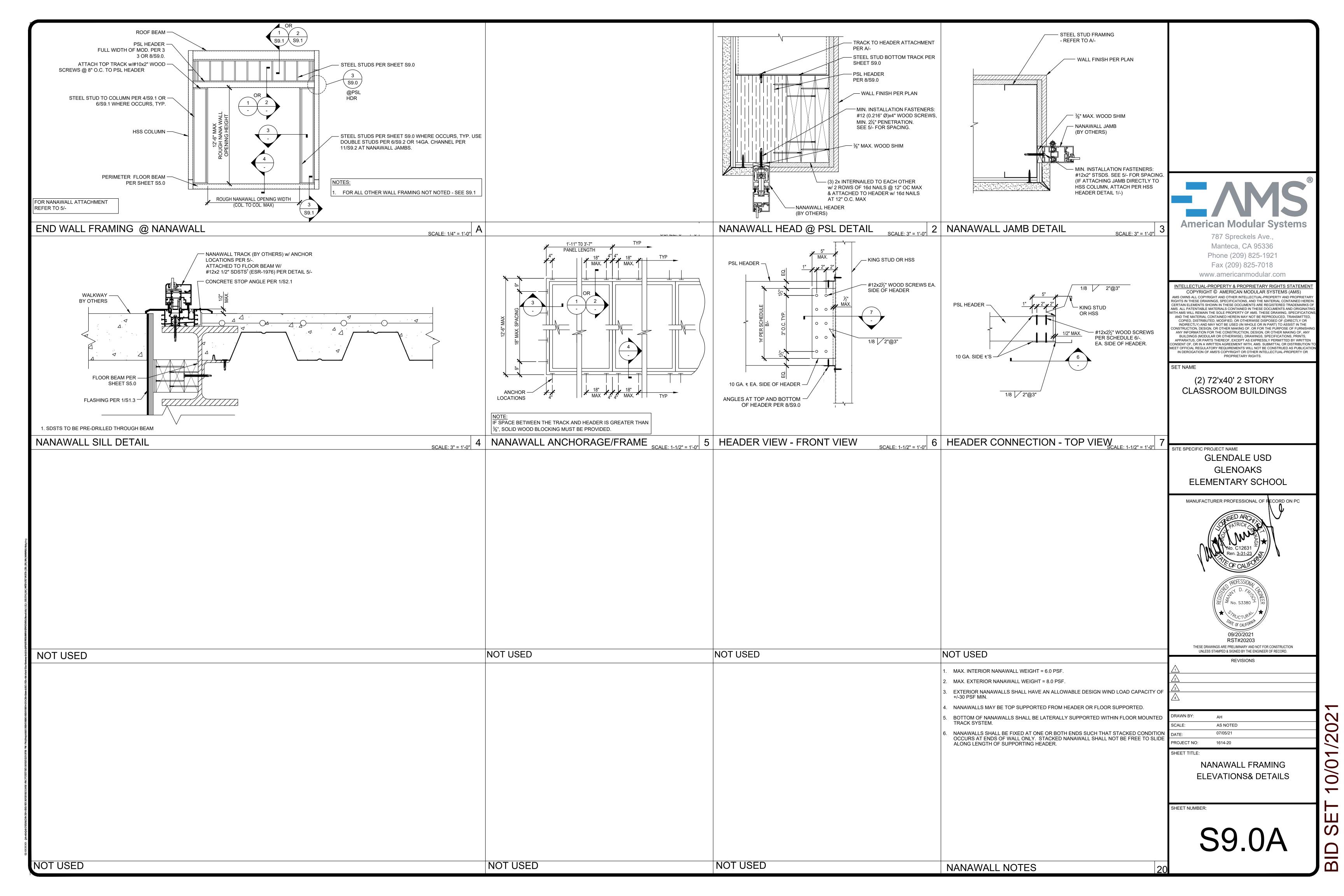
WALL FRAMING **ELEVATIONS**

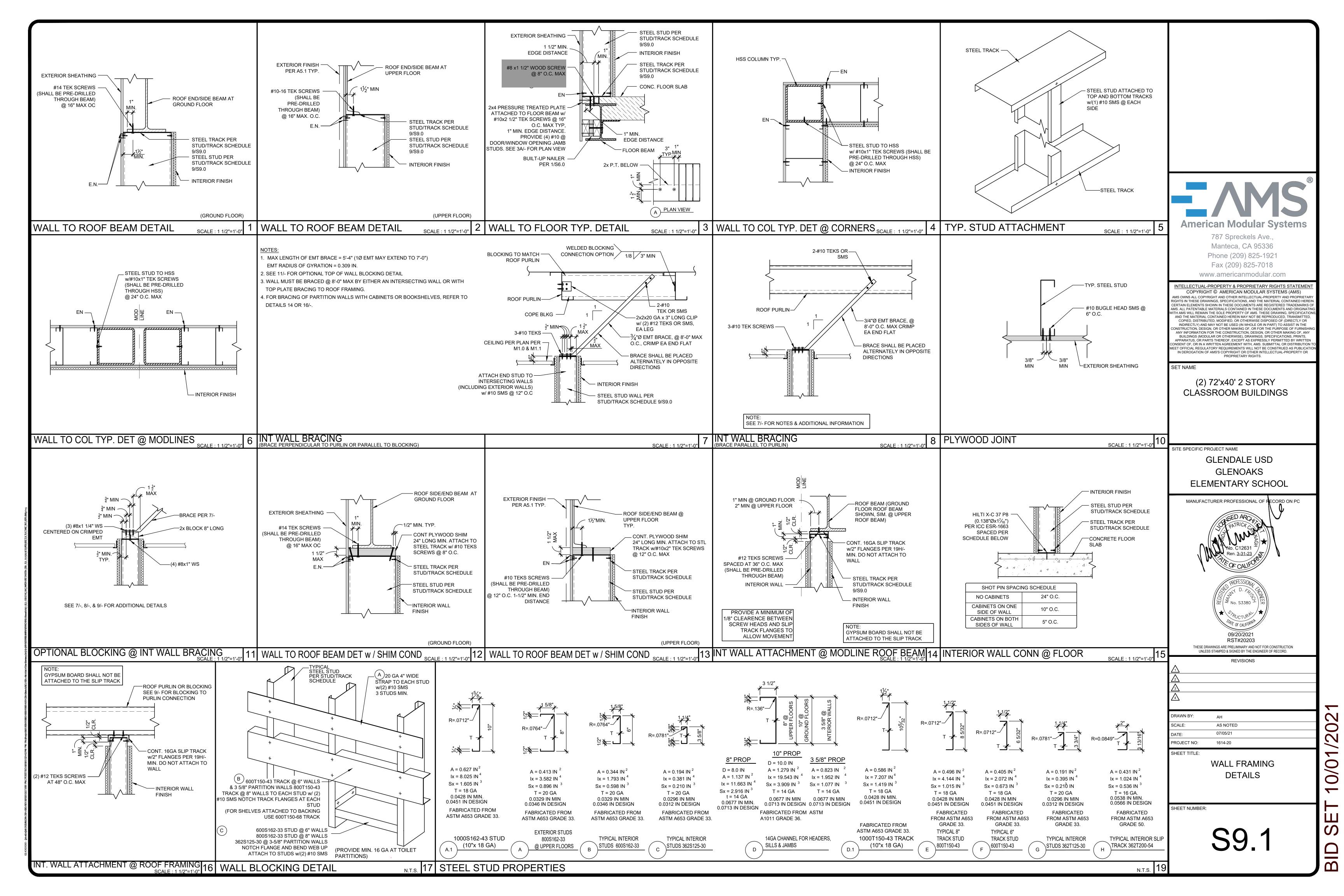
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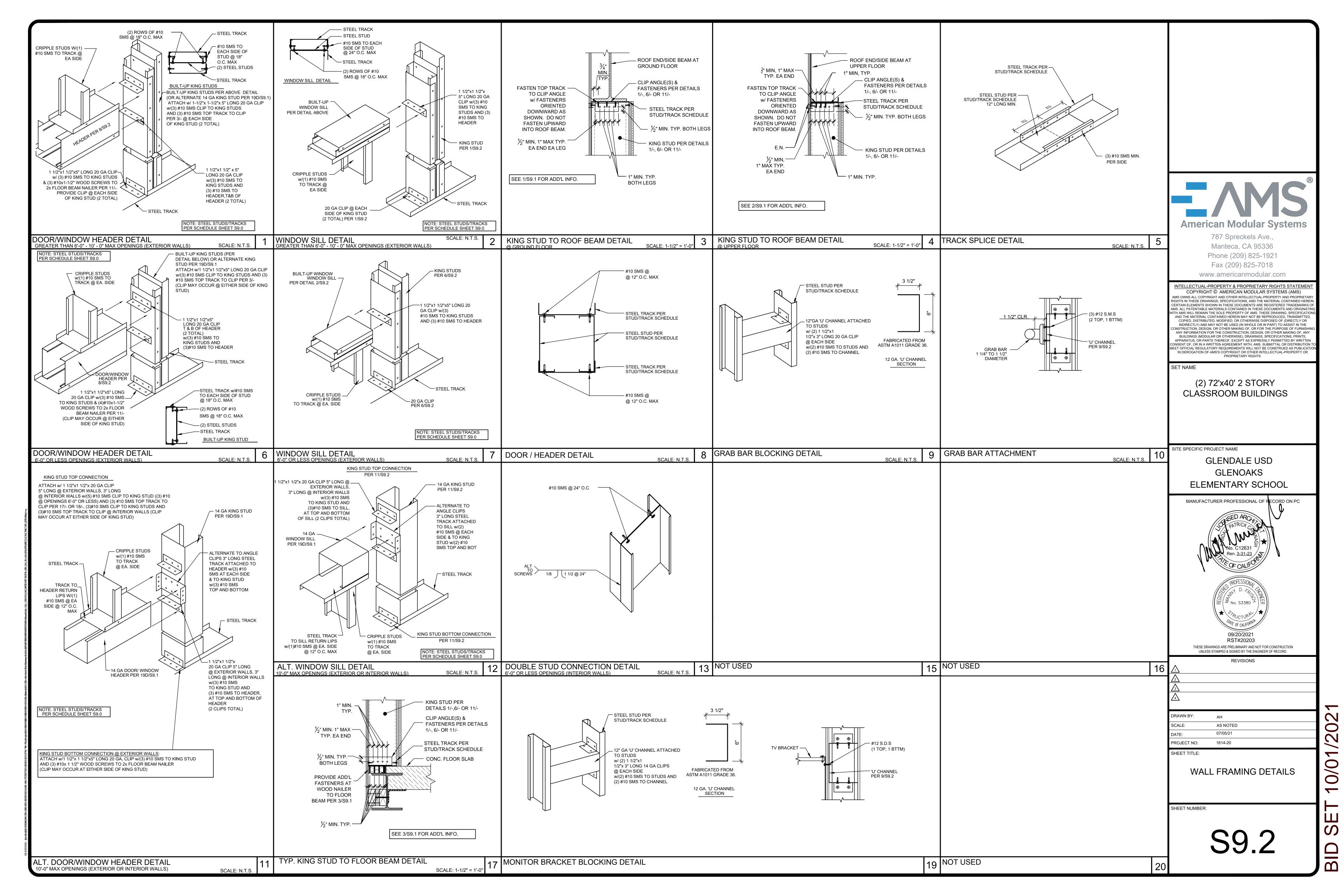
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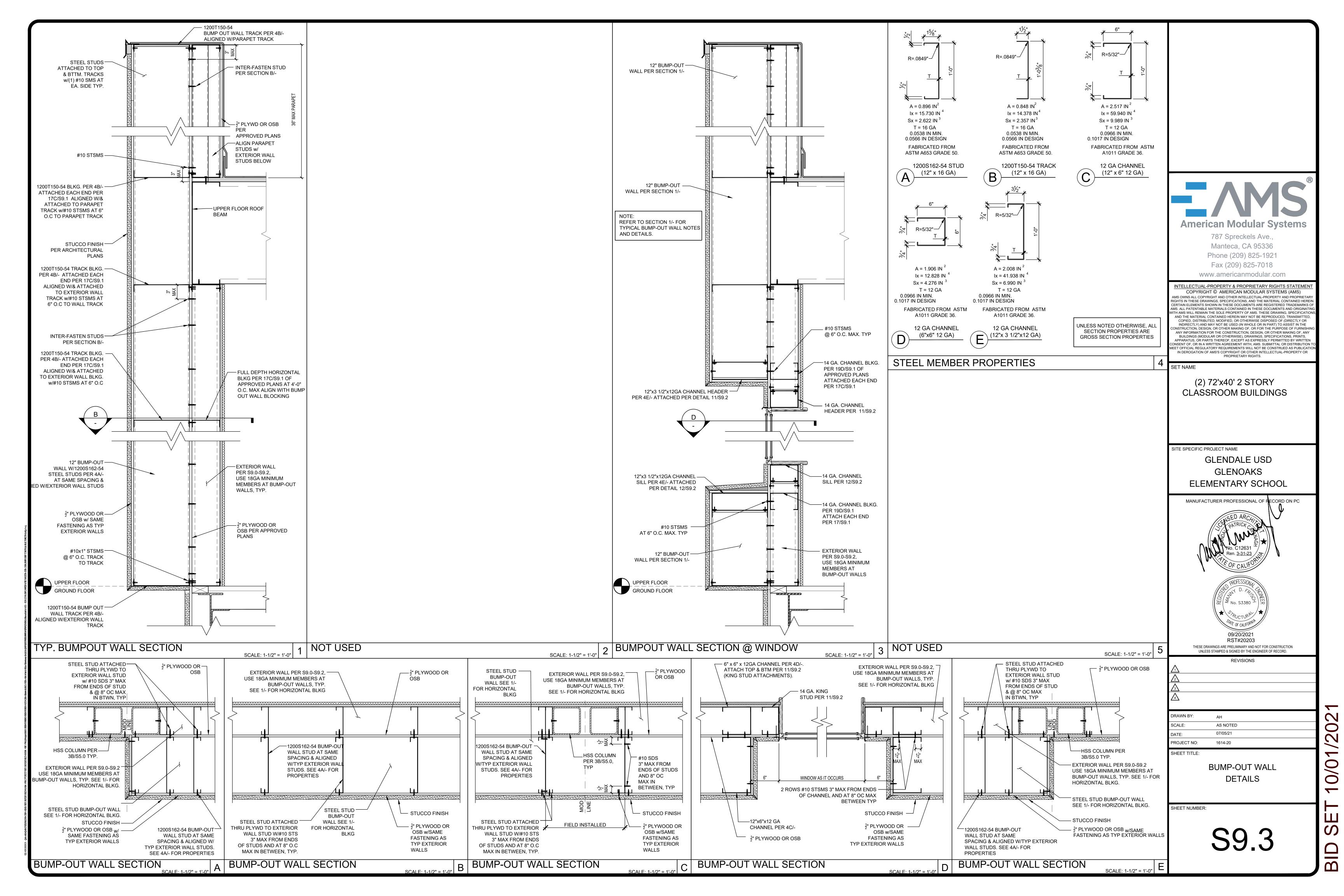
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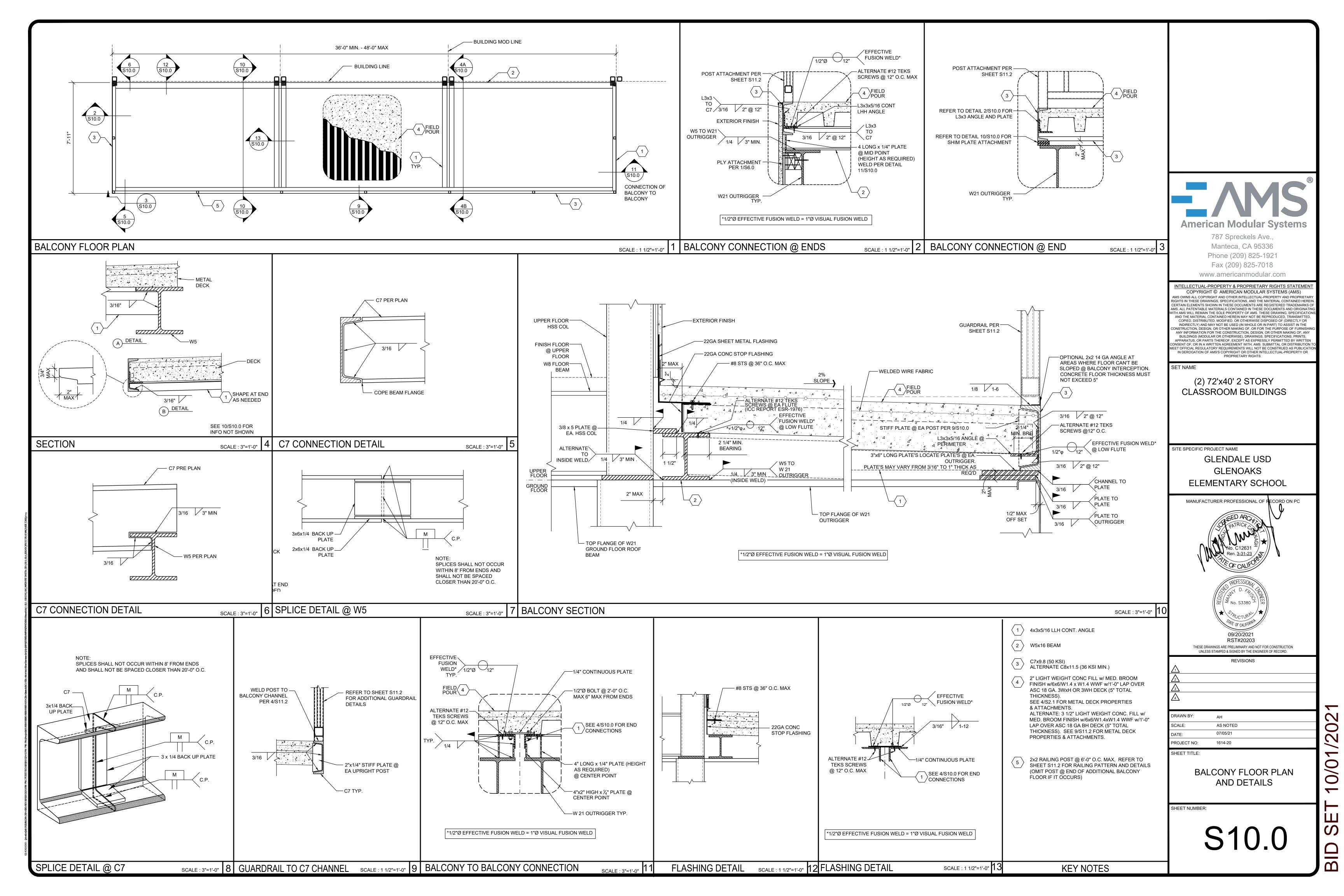
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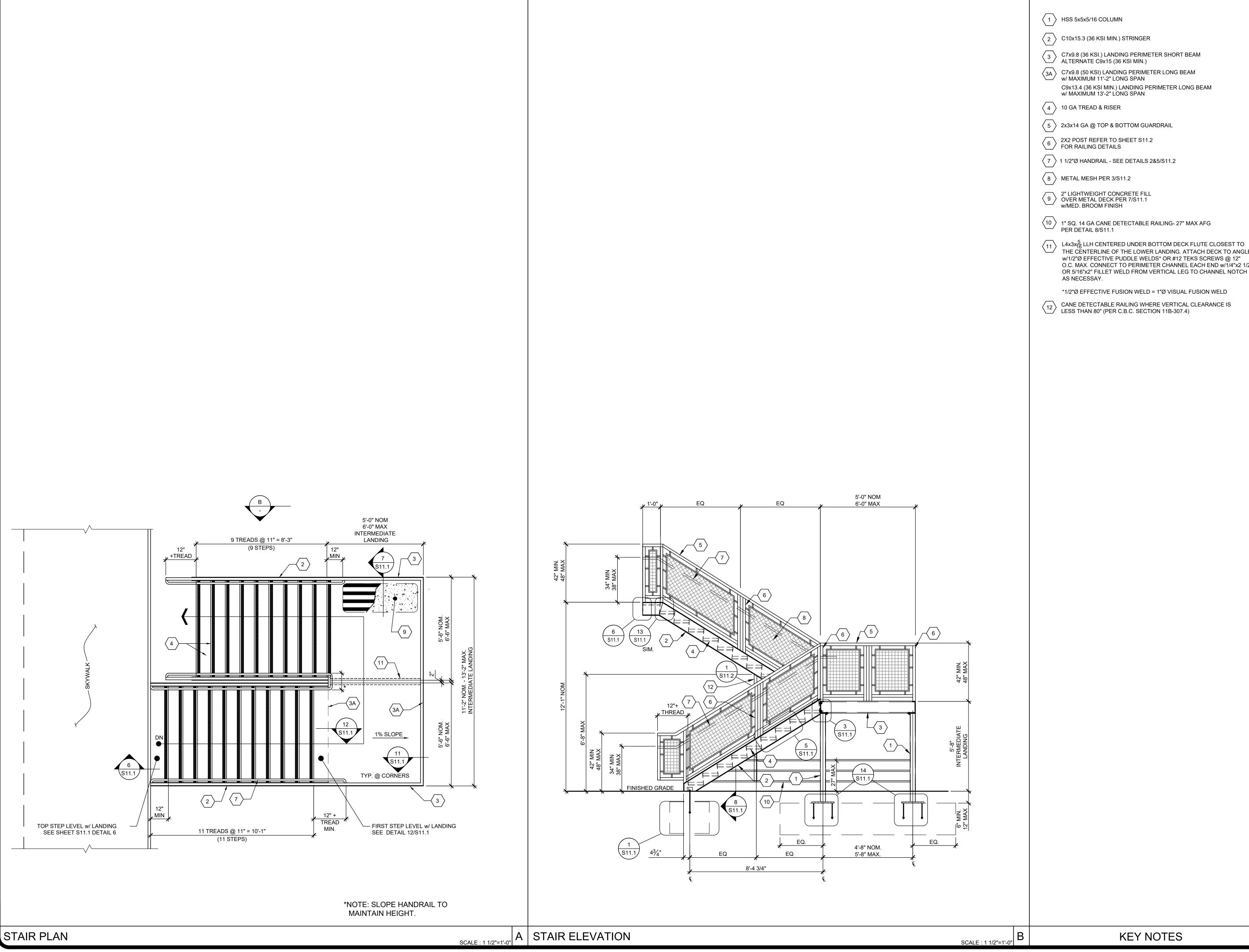












THE CENTERLINE OF THE LOWER LANDING. ATTACH DECK TO ANGLE w/1/2"Ø EFFECTIVE PUDDLE WELDS* OR #12 TEKS SCREWS @ 12" O.C. MAX. CONNECT TO PERIMETER CHANNEL EACH END w/1/4"x2 1/2" OR 5/16"x2" FILLET WELD FROM VERTICAL LEG TO CHANNEL NOTCH

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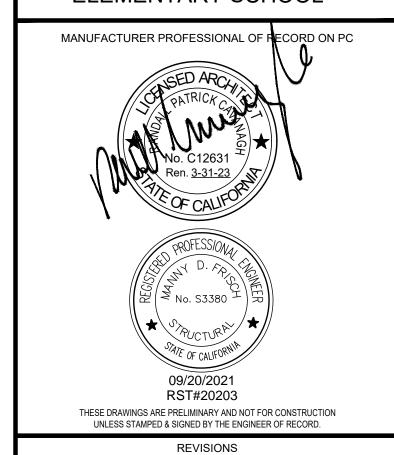
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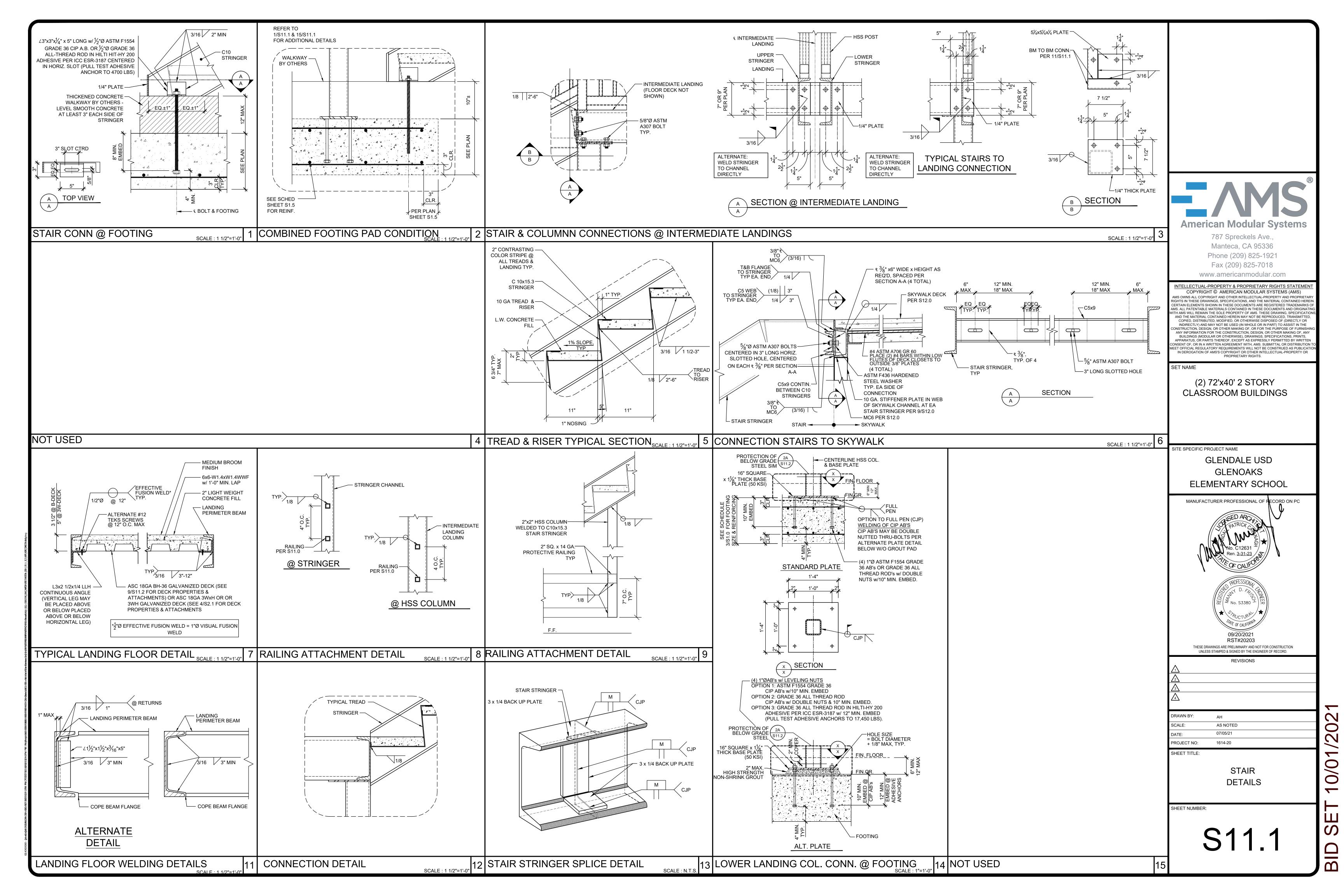
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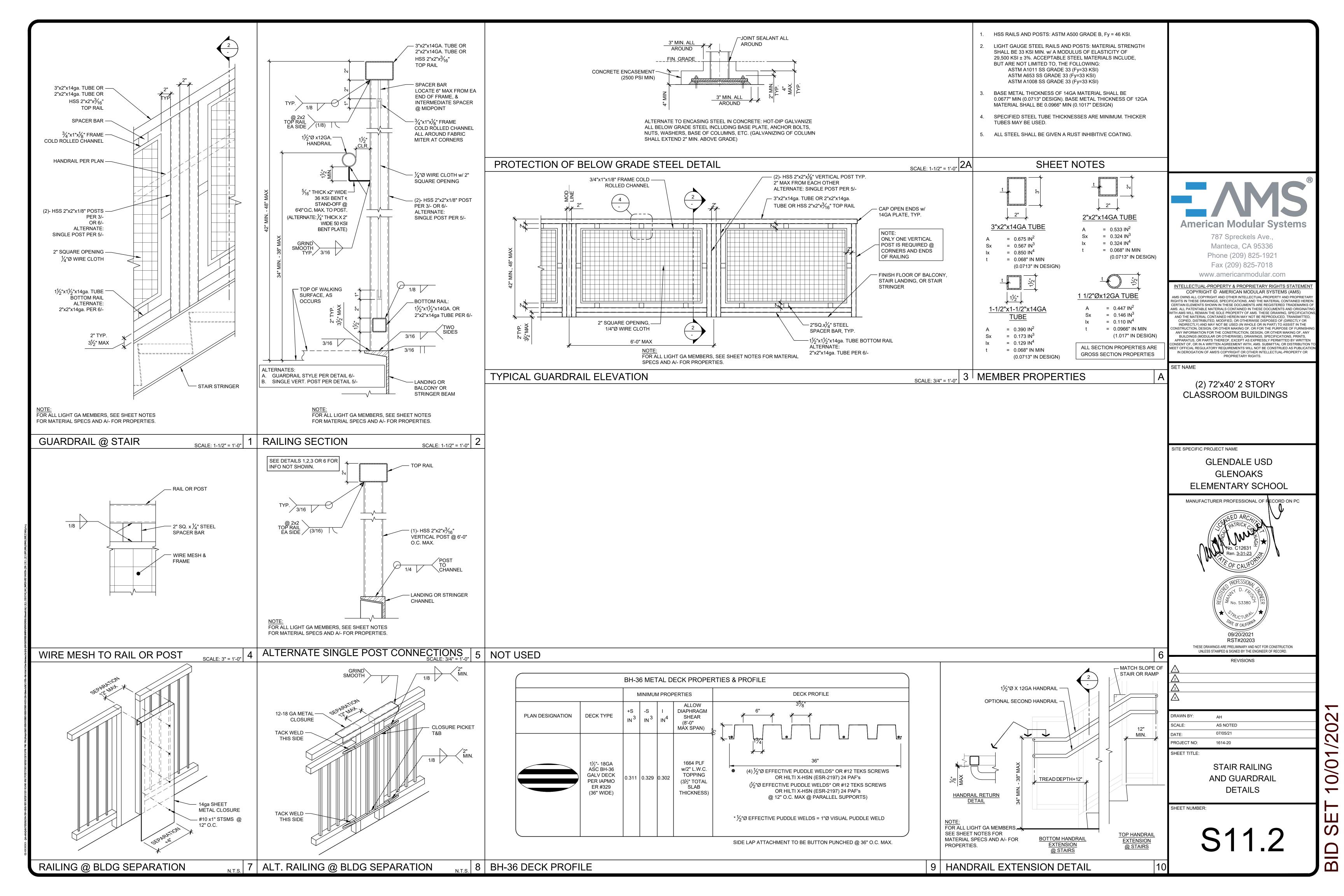
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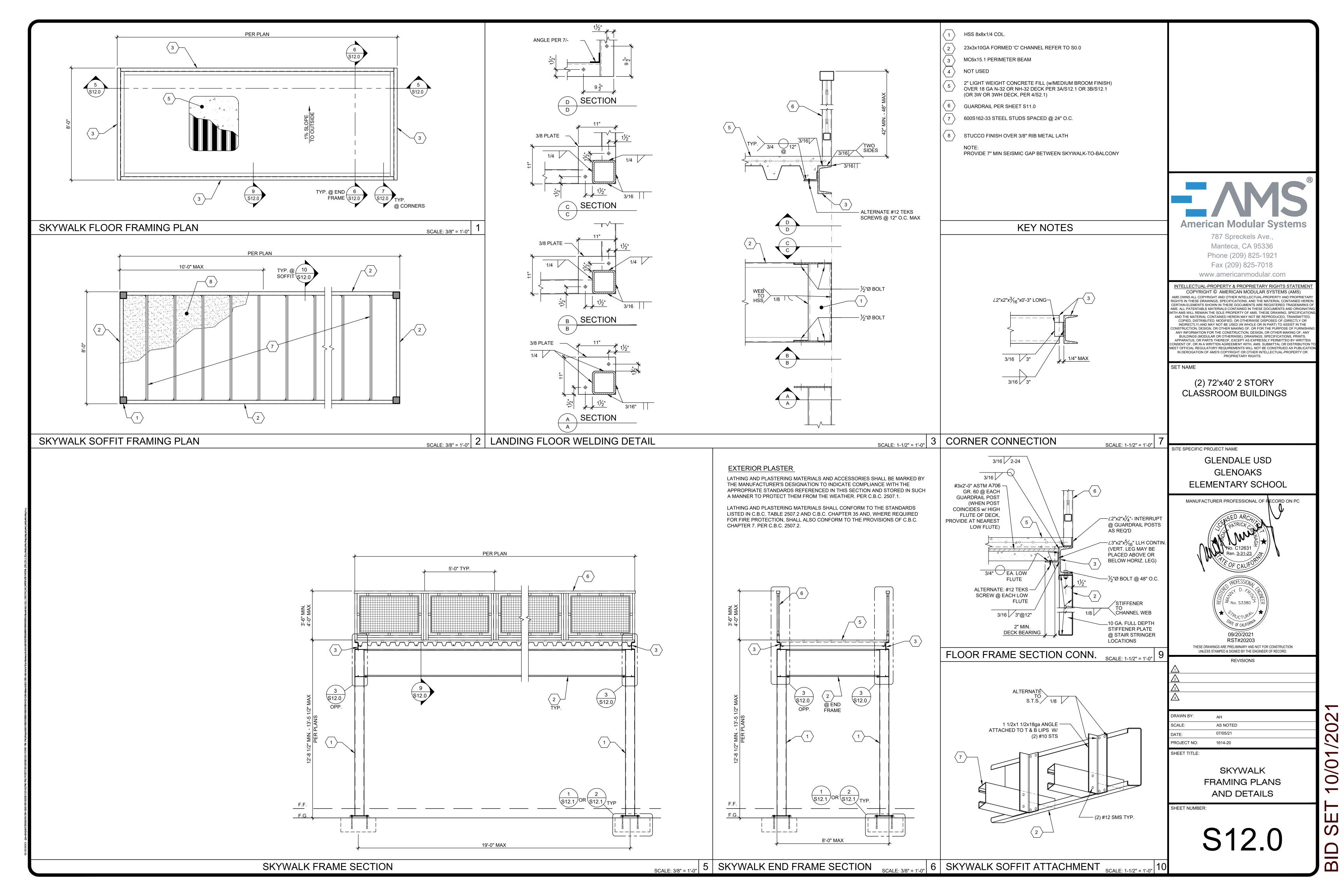
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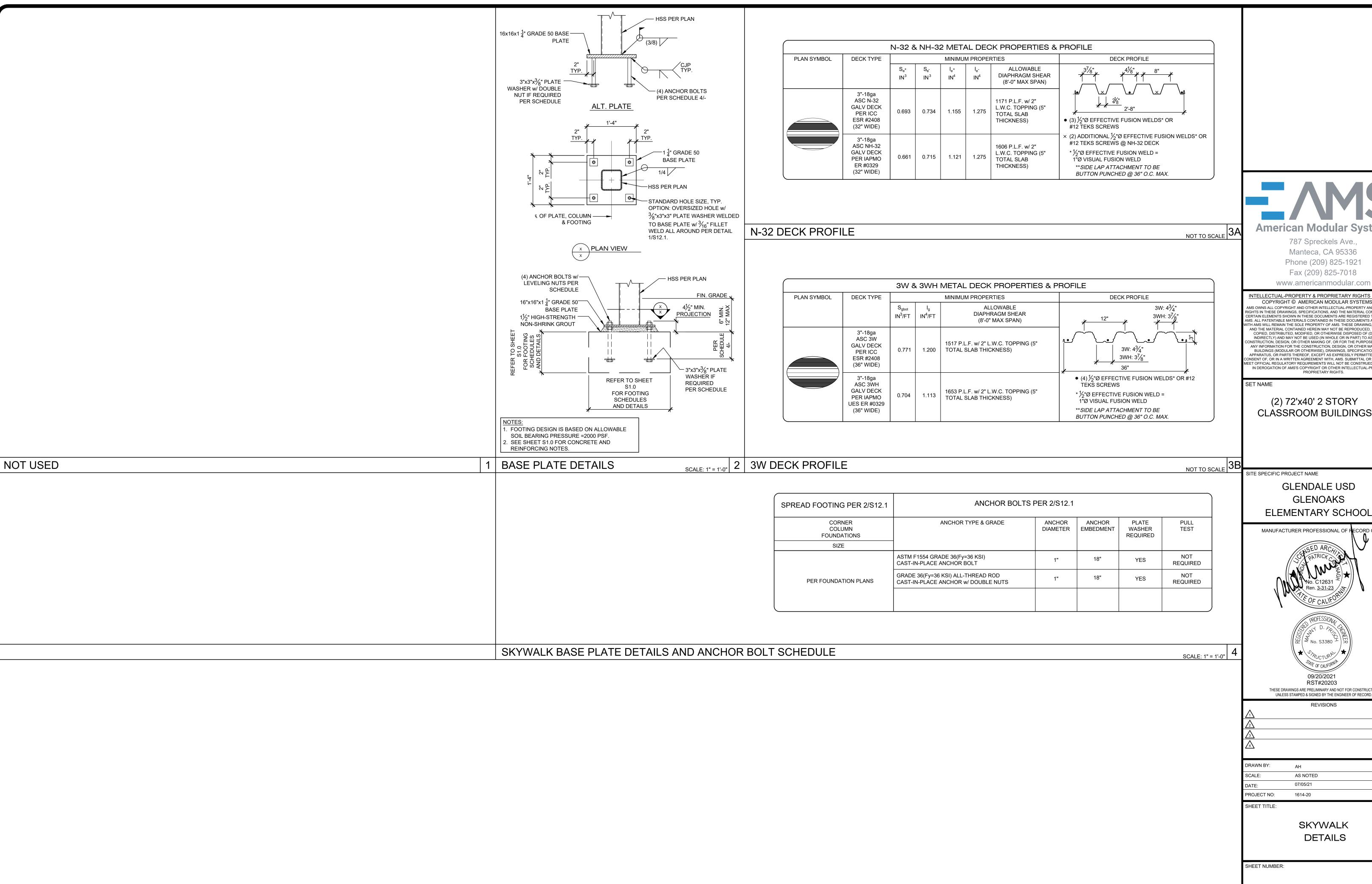
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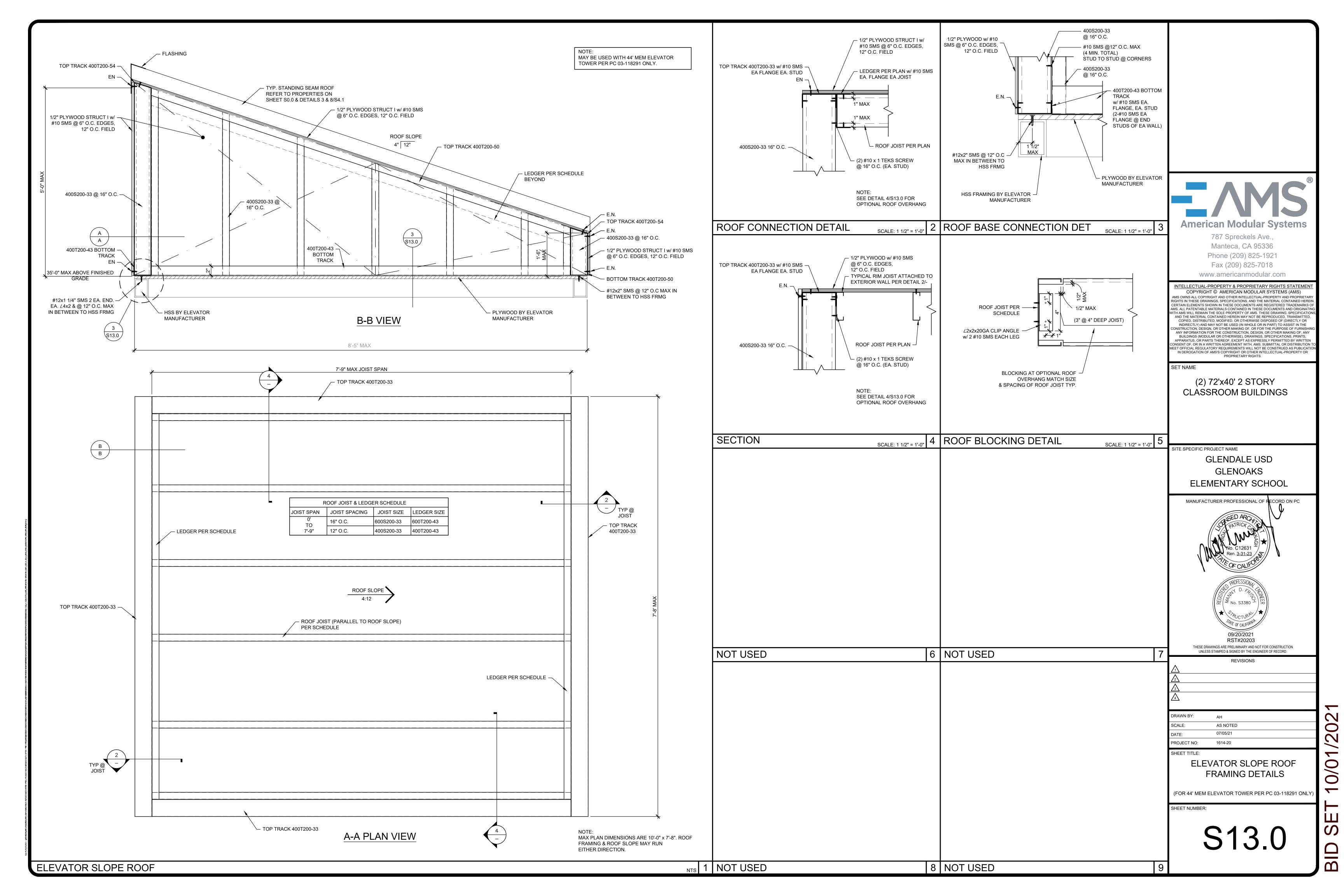
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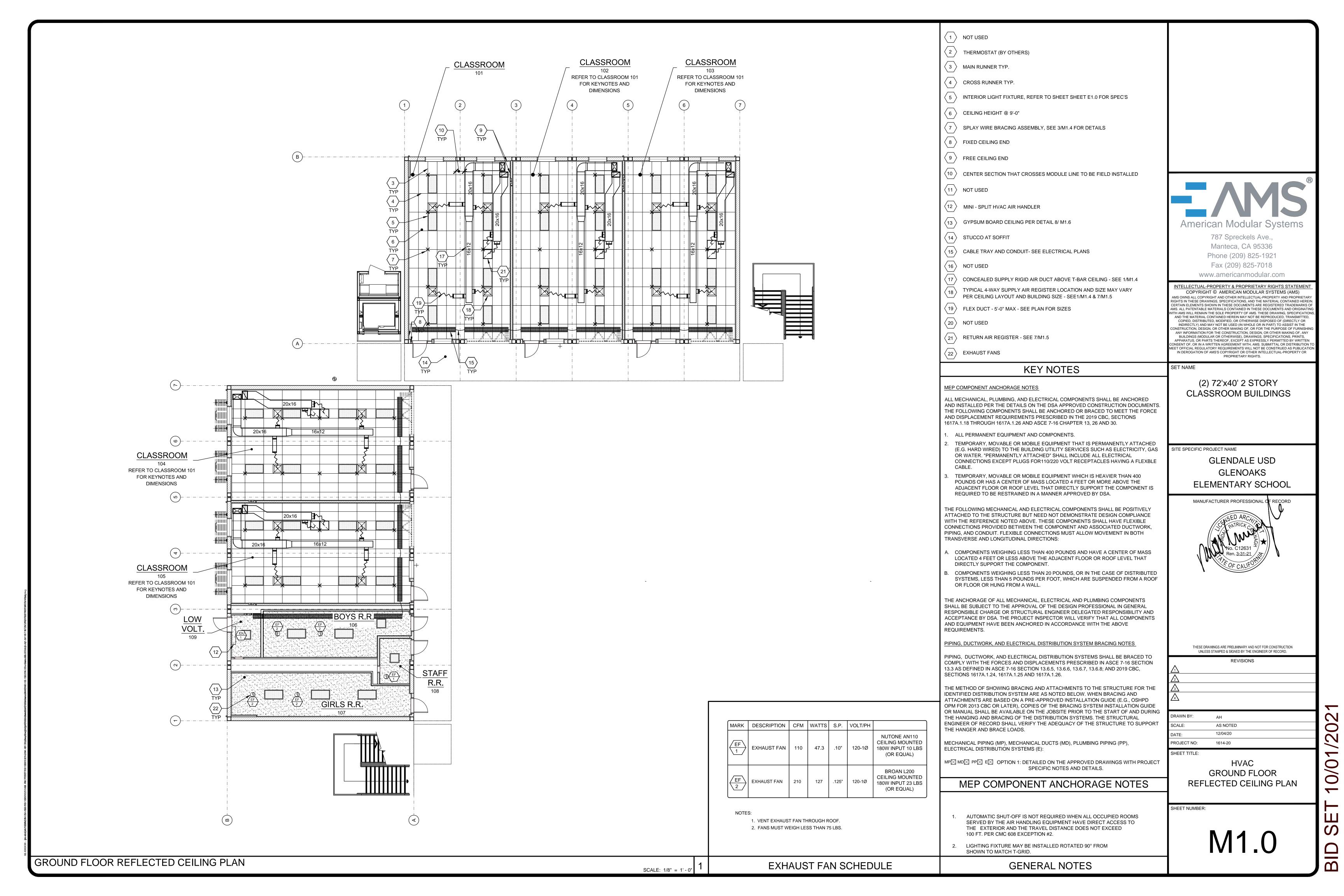
ELEMENTARY SCHOOL

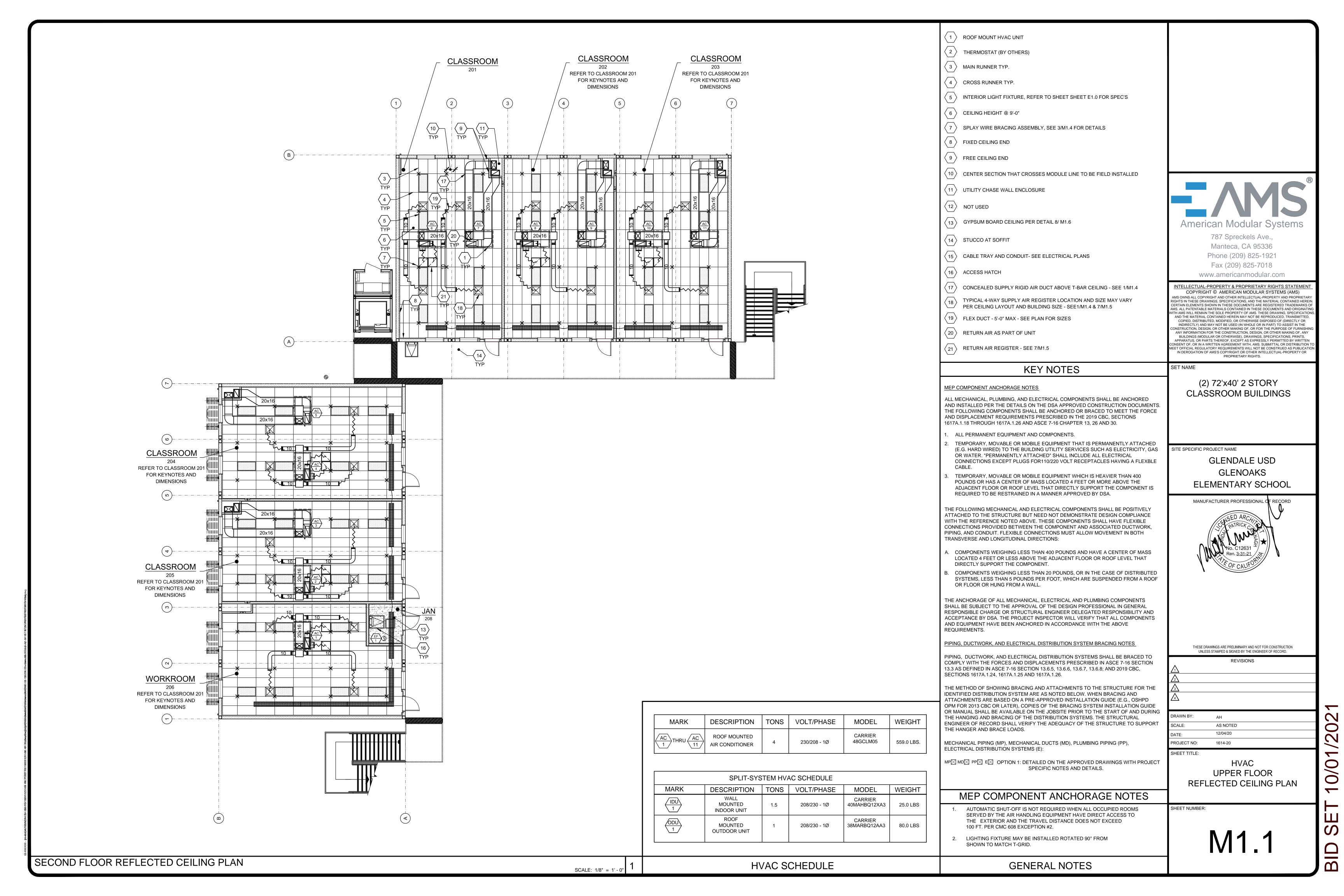


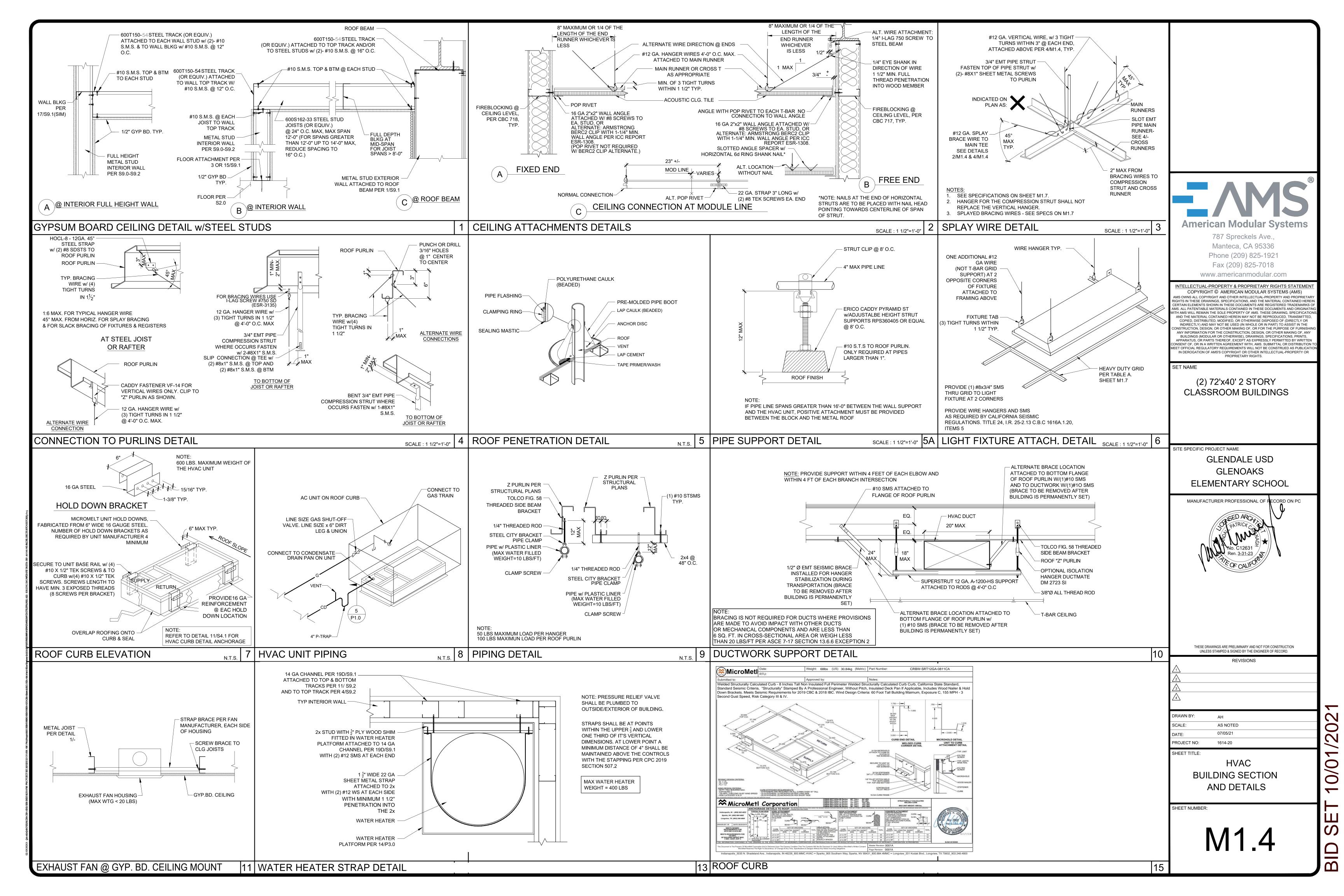
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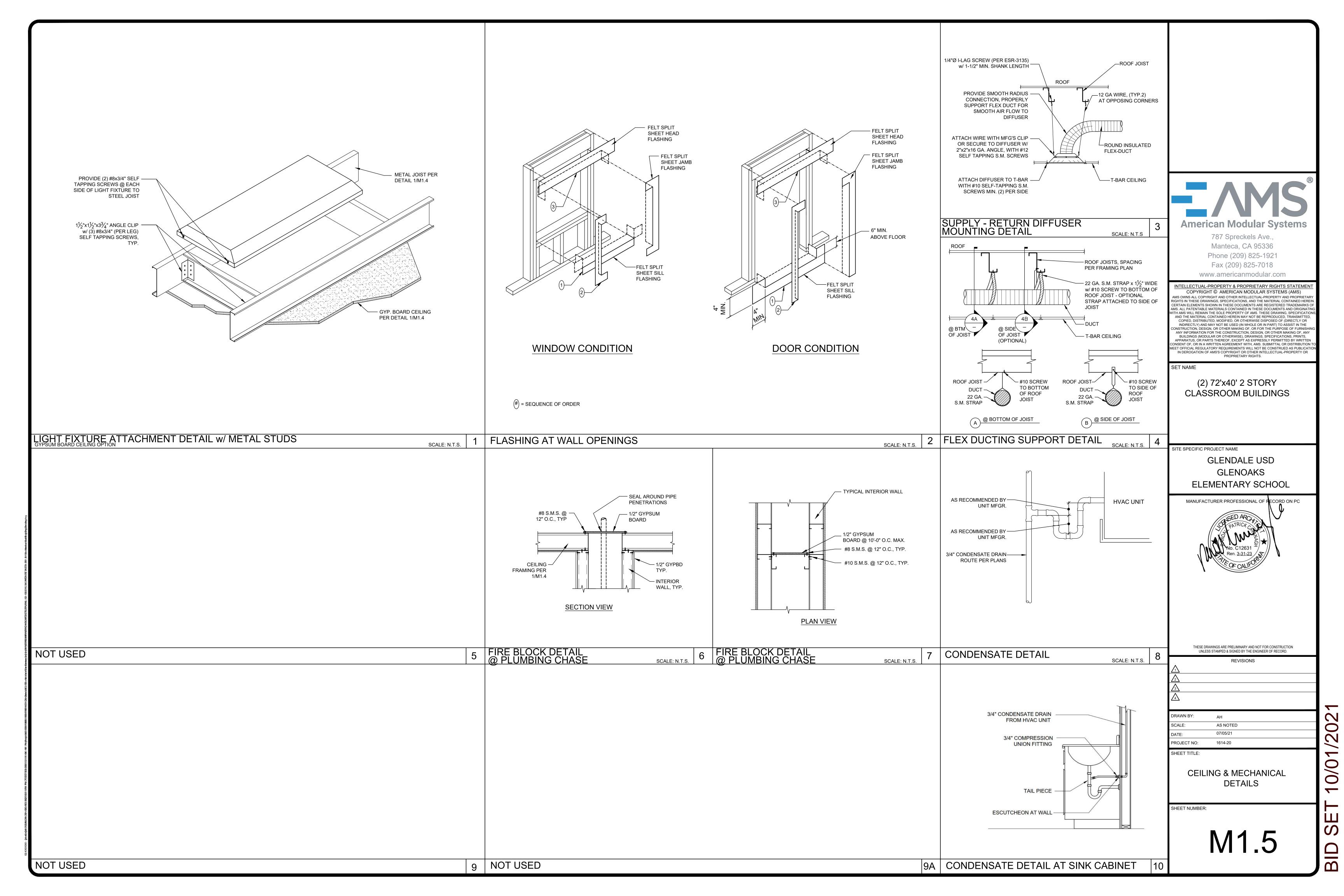
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- CEILING GRID SYSTEMS IN SEISMIC ZONES D. E. F. MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.
- SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.
- WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.
- 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING. ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.
- PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE 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 DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.
- CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS. ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
- PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS. THIS INTERLOCK IS NOT REQUIRED.
- 10. CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.
- 11. EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.
- 12. PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.
- 13. LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.
- 14. LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
- (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 8 FEET BY 12 FEET ON CENTER.
- (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.
- 15. COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.
- 18. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.
- 20. LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.
- 21. ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.
- 22. PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.
- 23. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS. SQUARE EDGE. ASTM FLAME SPREAD CLASS T. 24"x48" MODULAR SIZE. LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.

	TABLE A	- HEAVY DUTY GRID	COMPONENTS	
MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL
DONN/USG	DX-26	DX-424	DX-216	N/A
ARMSTRONG	7301	XL7341	XL8320	N/A
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A
NOTE: ALL GRID COMPO	NENTS SHALL BE	BY THE SAME MANUFAC	TURER.	

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

- HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77, MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT **ENERGY STANDARDS.**
 - THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER.
 - THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.
- DUCTWORK
 - CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.
 - NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
- AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25. SMOKE GENERATION LESS THAN OR EQUAL TO 50.
- SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM. 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA"
- REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
- AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
 - 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
- KEY BOARD LOCKOUT SWITCH.
- PROGRAMMABLE DISPLAY.
- 2-HOUR OVERRIDE MINIMUM.
- STATUS INDICATED LED'S.
- BATTERY BACK-UP.
- PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX.
- THERMAL INSULATION
- ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
- WALLS INSULATION: R-13 KRAFT FACED. (R-5 INSULATION OVER METAL FRAMED WALLS)
- NON-CONCRETE FLOORS INSULATION: R-13 CONCRETE FLOORS INSULATION: N/A
- FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
- FACTORY-MADE AIR DUCTS
- A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
- EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
- DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 6'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
- SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE
- SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE
- FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
- A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;

WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.

- AT THE CEILING AND FLOOR LEVELS:
- AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL.
- REFERENCE 2019 CBC SECTION 718.
- 10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")

11. HVAC FILTER

- A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 8 (MERV 8) AND 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, PER 2019 CEC SECTION 5.504.5.3.
- INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CEC SECTION 5.504.5.3.1

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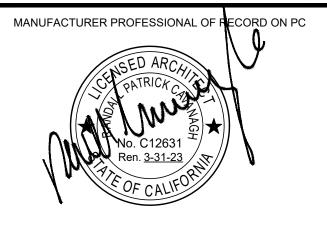
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(2) 72'x40' 2 STORY **CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS **ELEMENTARY SCHOOL**



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RAWN BY SCALE: AS NOTED

07/05/21 PROJECT NO: 1614-20

SHEET TITLE:

CEILING NOTE. MECHANICAL NOTES & SCHEDULES

SHEET NUMBER:

INSULATION SCHEDULE

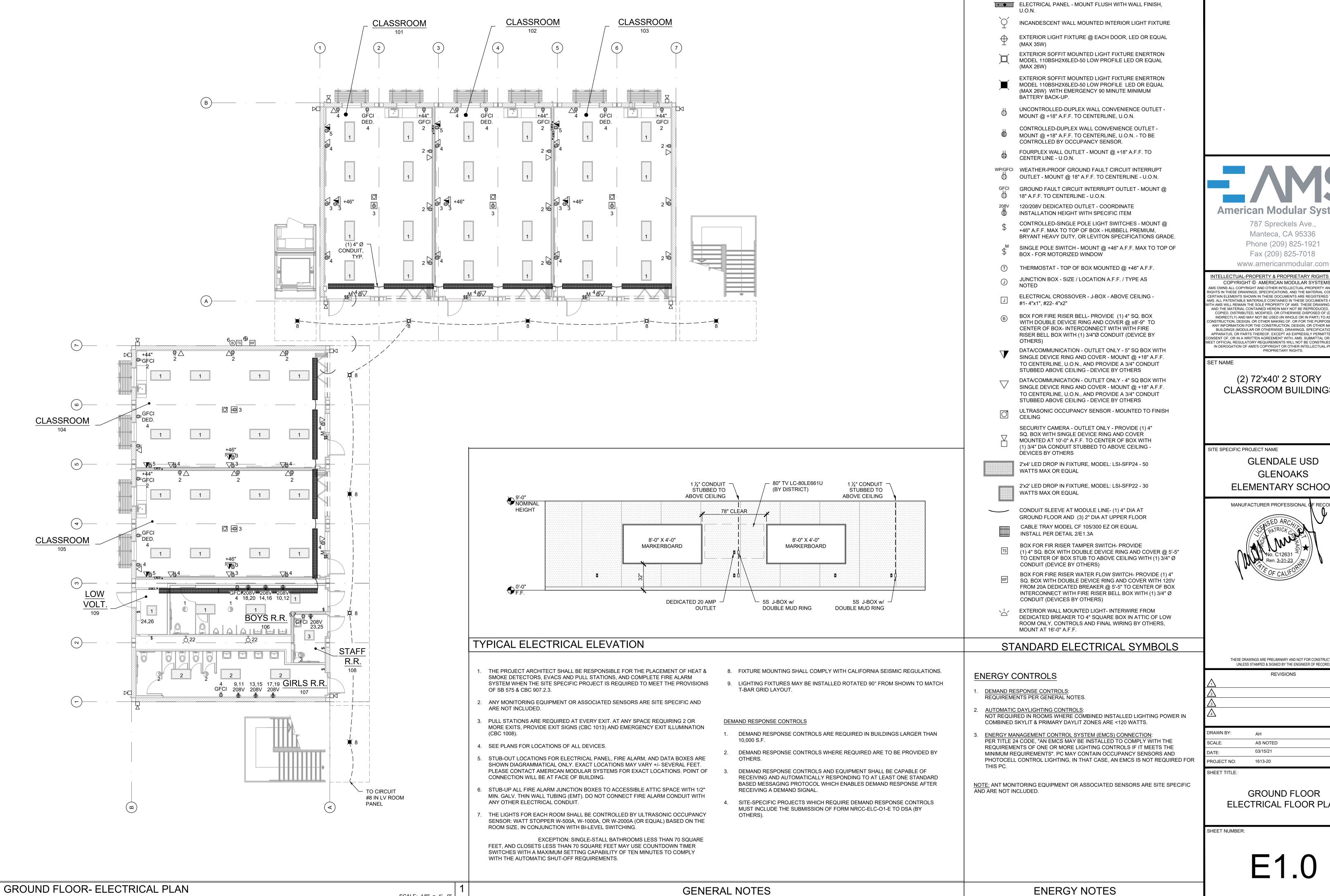
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ZONE	WALL	RO	OFS	FLOORS (NON-CONCRETE)	CONCRETE FLOORS			
		BATTS OTHER						
1-14, & 15	*R-13	**R-19	***R-1	R-13	-			
16	*R-13	**R-19	***R-1	R-13	-			

*R-5 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS

**R-19 w/ 22 GA WIRE @ 16" O.C.

***R-1 MAY BE ACHEIVED W/ POLYSTYRENE OR INSULATION TAPE APPLIED TO

TOP FLANGE OF PURLINS, OR EQUAL.



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

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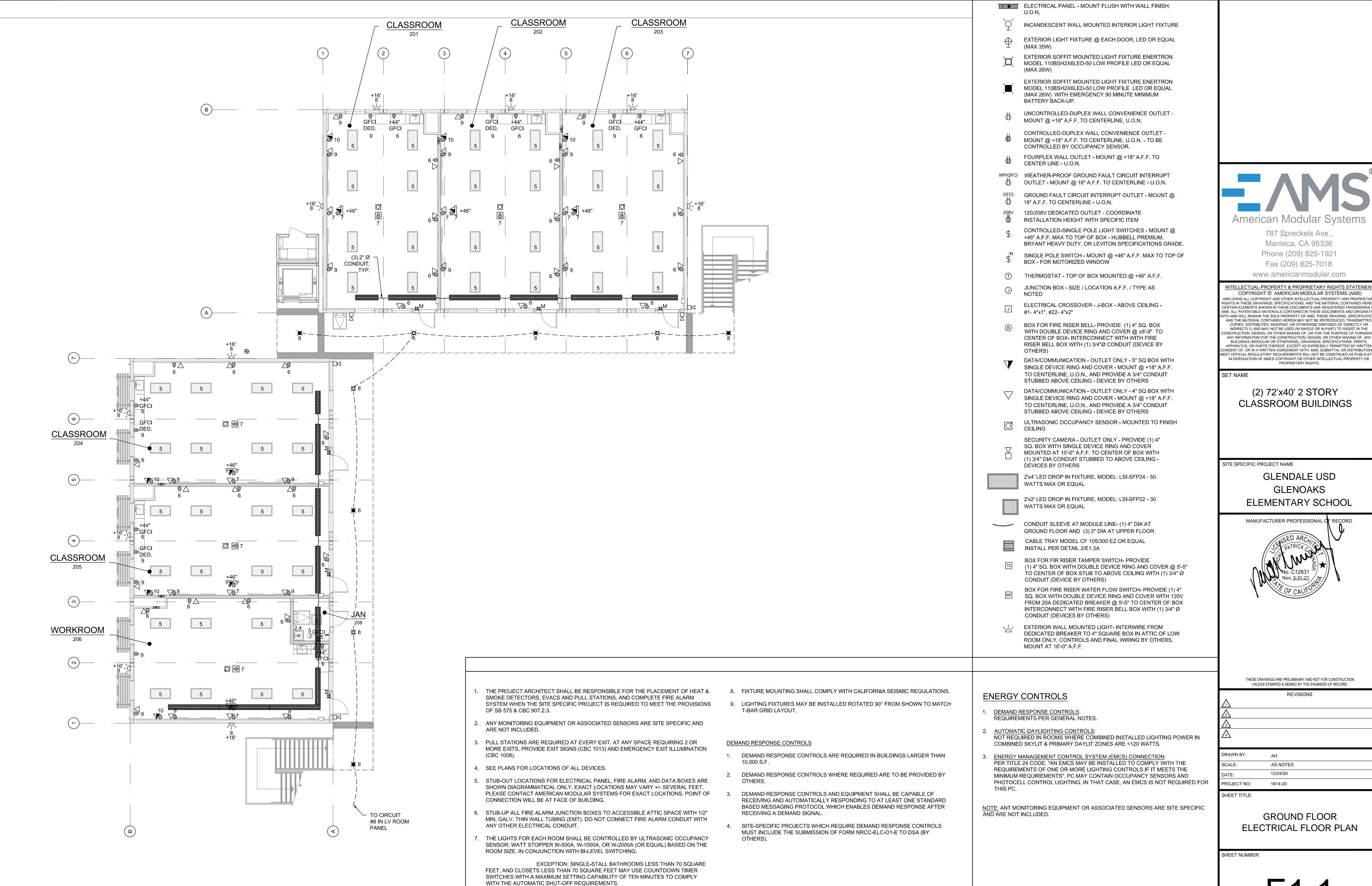
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GROUND FLOOR

ELECTRICAL FLOOR PLAN



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

GENERAL NOTES

SECOND FLOOR- ELECTRICAL PLAN

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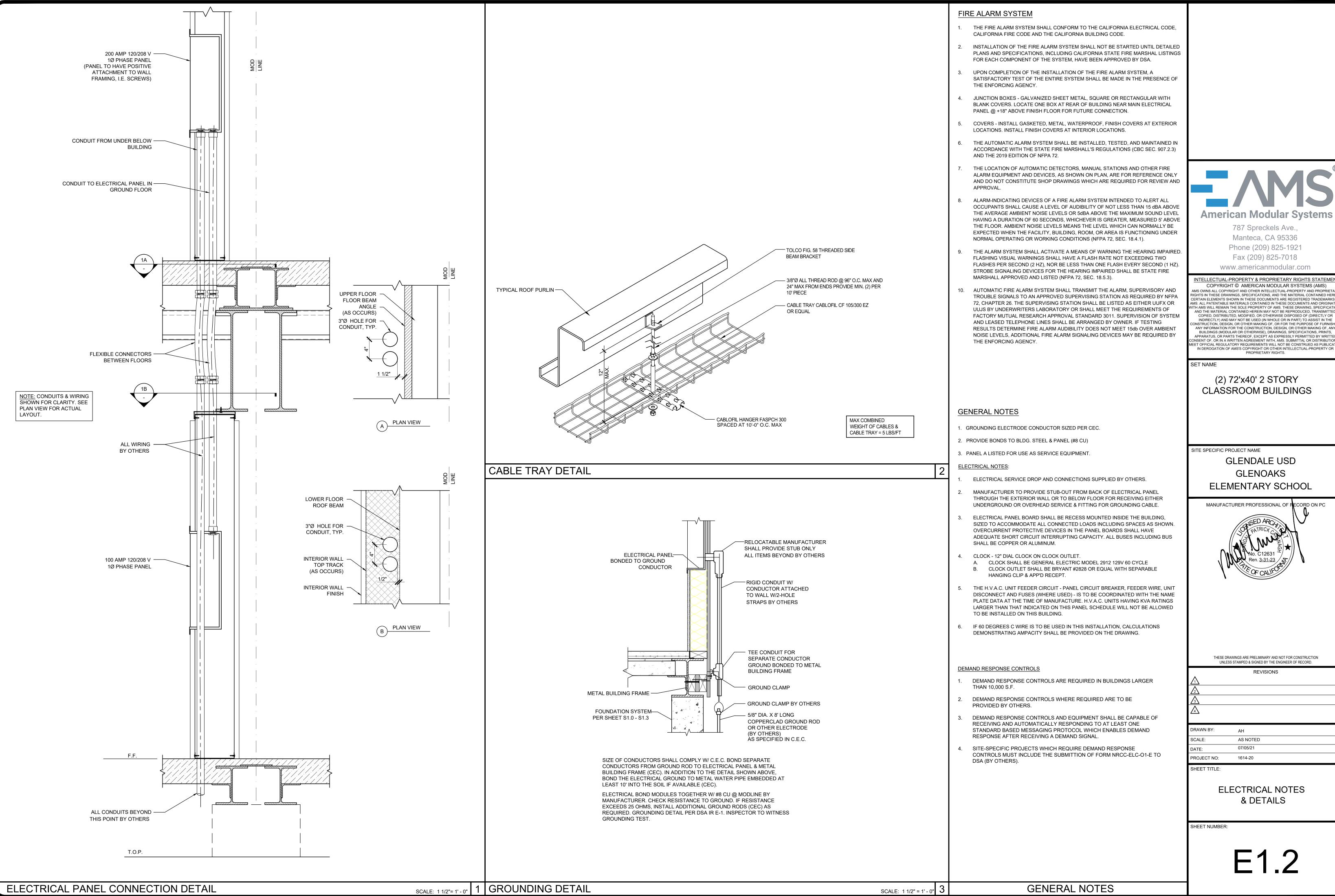
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GROUND FLOOR ELECTRICAL FLOOR PLAN

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ENERGY NOTES



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ELECTRICAL NOTES & DETAILS

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Panel:		A-1		PH	ASE:	VO	LTS:	MAI	N (AMF	S):	Bl	JSS (AMI	PS):	LOCA	ATION:		FE	ED:		MOUNTING:
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OBJECT DESCRIPTION	WATTS	QTY	LCL	W A	TTS B	BRK	POLE	WIRE	CKT#	A E		WIRE	POLE	BRK	WA A	TTS B	LCL	QTY	WATTS	OBJECT DESCRIPTION
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MONITOR OUTLET	380	1			380	20	1	#12	3)	4	#12	1	20		900		5	180	RECEPT
DED. RECEPT	360	1		360		20	1	#12	5	X	6	#12	1	20	180			1	180	FIRE BELL AT CLSR 10
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LOAD PANEL CALCULATIONS- TYPICAL LOWER CLASSROOM

Panel:	ELECT	RICAL R	MOON		ASE:		LTS:	MA	IN (AMP	'S):	В	JSS (AM	PS):	*******************************	ATION:			ED:		MOUNTING:
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DESCRIPTION	PER	1000	100000000000000000000000000000000000000	Α	В			SIZE		AE	3	SIZE			Α	В			PER	DESCRIPTION
BOYS R.R.																				GIRLS R.F
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STAFF R.R.																				
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WATER HEATER	900	1		900		20	2	#12	5	X	6	#12	1	20	720			4	180	ELECT ROOMREC
-	900	-			900	: -	-	-	7)	8	#12	2	20		701		15	26	SOFFIT/EXT. LIGHTS
AND DRYER GIRLS B.B.	745	1		745		20	2	#12	9	X	10	#12	2	20	745			1	745	HAND DRYER BOYS R.R
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AND DRYER GIRLS R.R.	745	1		745		20	2	#12	13	Х	14	#12	2	20	745			1	745	HAND DRYER BOYS R.R
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AND DRYER GIALSRA.	745	1		745		20	2	#12	17	Х	18	#12	2	20	745			1	745	HAND DRYER BOYS R. R
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_CL=0+18581=18581	1																			
TOTAL WATTS:	18581							LEG	BALAN	ICE:	(.3%						TOTA	LAMPS:	77.42

LOAD PANEL CALCULATIONS- LOW VOLTAGE ROOM

Panel:		CAL UP			ASE: GLE		L TS : /208	MAI	N (AMF 200	'S):		BU	SS (AMI 225	PS):		ATION: RIOR	POTI	FE OM - BI	ED:	T COD	MOUNTING: RECESSED
OBJECT	WATTS	SSROC			TTS			WIRE		LE	G	01/7#	WIRE	DOL 5			TTS			WATTS	OBJECT
DESCRIPTION	PER	QTY	LCL	Α	В	BRK	POLE	SIZE	CKT#	Α		CKT#	SIZE	POLE	BRK	Α	В	LCL	QTY	PER	DESCRIPTION
HVAC UPPER																					HVAC LOWER
FLOOR	4160	1	X	4160		50	2	#6	1	Х		2	#6	2	50	4160		Х	1	4160	FLOOR
-	4160	-	X		4160	-	-	-	3		X	4	-	-	. =		4160	X	-	4160	12.
CLASSROOM																					RECEP'
LIGHTS	50	8		400		20	1	#12	5	Х		6	#12	1	20	900			5	180	
MONITOR OUTLET	380	1			380	20	1	#12	7		X	8	#12	1	20		360		2	180	HVAC RECE
RECEPTS	180	4		720		20	1	#12	9	X		10	#12	1	20	0			1	360	DED. RECE
					0				11		X	12					0				
				0					13	Х		14				0					
																					ELECTRICAL PAN
					0				15		X	16	#8	2	40		1300		1	1300	AT GROUND FLOO
				0					17	X		18	=	-	-	1280			1	1280	-
					0				19		X	20					0				
				0					21	X		22				0					
					0				23		X	24					0				
				0			<u></u>		25	Х		26				0					
					0				27	000000000000000000000000000000000000000	X	28					0				
				0					29	Х		30				0					
	LEG	TOTAL	LS	5280	4540											6340	5820	L	EG TOT	ALS	
LCL=4160+21980=2	6140																				
TOTAL WATTS:	26140							LEG	BALAN	CE:		5.	7%						TOTA	LAMPS:	108.92

LOAD PANEL CALCULATIONS - TYPICAL UPPER CLASSROOM

Panel:	WO	RKROO	М	PH	ASE:	VO	LTS:	MA	IN (AMF	PS):	BU	JSS (AMI	PS):	LOCA	ATION:		FE		MOUNTING:	
Panel.	VVO	KKKOO	IVI	SIN	GLE	120	/208		100			125		INTE	RIOR	BOTT	ГОМ - В	ELOW F	LOOR	RECESSED
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WA A	TTS B	BRK	POLE	WIRE SIZE	CKT#	LEG A B	скт#	WIRE SIZE	POLE	BRK	WA A	TTS B	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
VAC UPPER																				
LOOR	4160	1	X	4160		50	2	#6	1	X	2	#10	2	30	1500			1	1500	WATER HEATER
7F.15	4160	1.00	Х		4160	-	= [-	3	Х	4	-	7.51	-		1500		27	1500	WATER HEATER
WORKROOM																				RECEPTS
IGHTS	50	7		350		20	1	#12	5	Х	6	#12	1	20	900			5	180	
RECEPTS	180	3			540	20	1	#12	7	X	8	#12	1	20		360		2	180	HVAC RECEPT
ECEPTS	180	4		720		20	1	#12	9	Х	10	#12	1	20	0			1	180	DED RECEPT
PARE		1			1	20	1	#12	11	Х	12	#12	1	20		430		1	430	JANITOR'S ROOM
				0					13	X	14				0					
					0				15	Х	16									
				0					17	X	18				0					
					0				19	X	20					0				
				0		15			21	Х	22				0					
					0				23	Х	24					0				
				0					25	X	26				0					
					0				27	Х	28					0				
				0					29	Х	30				0					
		TOTAL	.s	5230	4701										2400	2290	L			
CL=2080+14621=1	6701																			
OTAL WATTS:	16701							LEG	BALAN	ICE:	4	4%						TOTA	LAMPS:	69.59

FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
- 3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
- 4. JUNCTION BOXES GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
- 5. COVERS INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
- 6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2019 EDITION OF NFPA 72.
- 7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- 8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
- 9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
- 10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

- 1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
- 2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
- 3. PANEL A LISTED FOR USE AS SERVICE EQUIPMENT.

ELECTRICAL NOTES:

- 1. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
- 2. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
- 3. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
- 4. CLOCK 12" DIAL CLOCK ON CLOCK OUTLET.
- A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
 B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE
 HANGING CLIP & APP'D RECEPT.
- 5. THE H.V.A.C. UNIT FEEDER CIRCUIT PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
- 6. IF 60 DEGREES C WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

DEMAND RESPONSE CONTROLS

- DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
- 2. DEMAND RESPONSE CONTROLS WHERE REQUIRED ARE TO BE PROVIDED BY OTHERS.
- 3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
- 4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTION OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).



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SET NAMI

(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME

GLENDALE USD GLENOAKS ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC

SED ARC

PATRICK CALIFORNIA

Ren. 3-31-23

Ren. 3-31-23

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

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DRAWN BY:	АН
SCALE:	AS NOTED
DATE:	07/05/21
PROJECT NO:	1614-20
SHEET TITLE:	

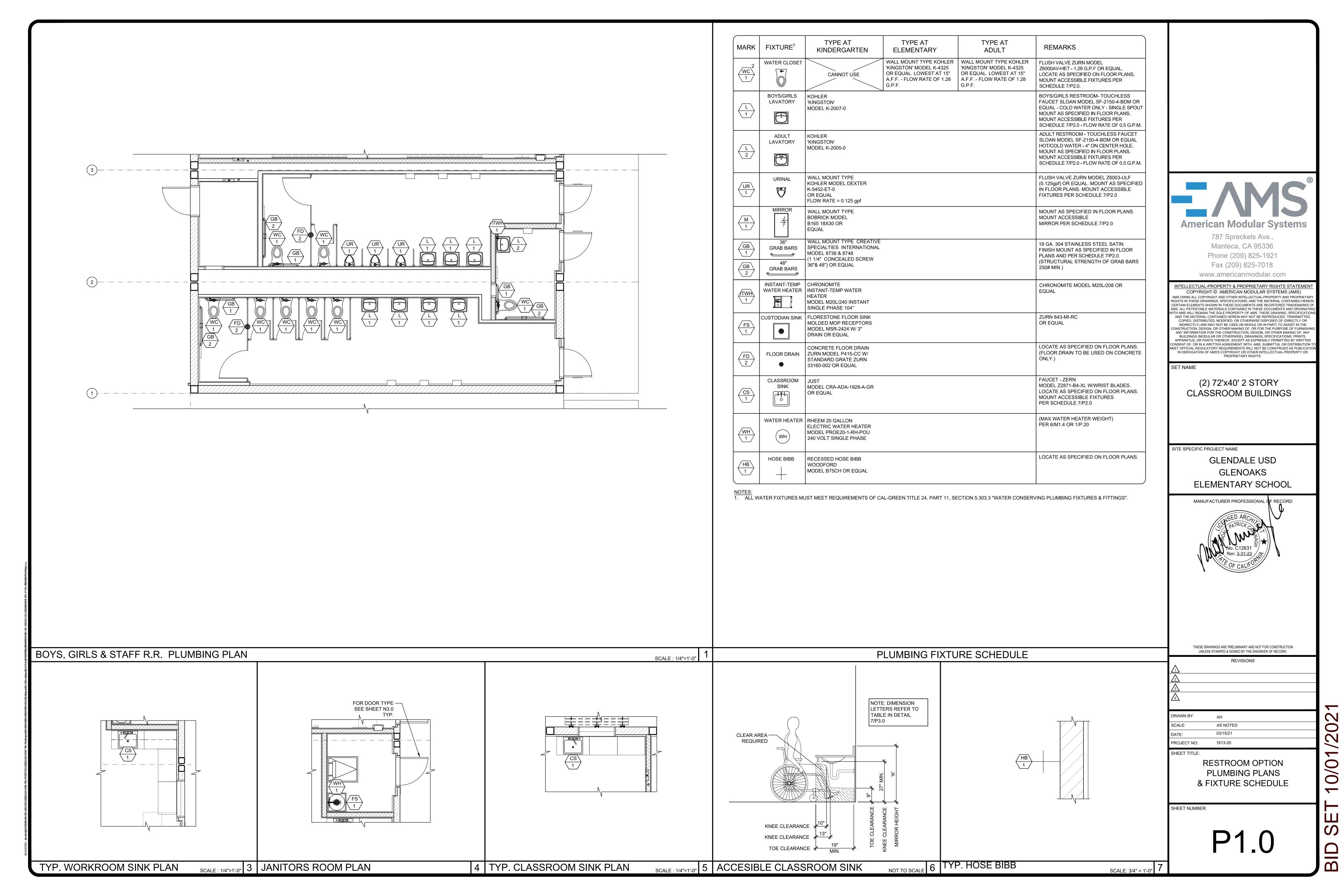
ELECTRICAL NOTES & DETAILS

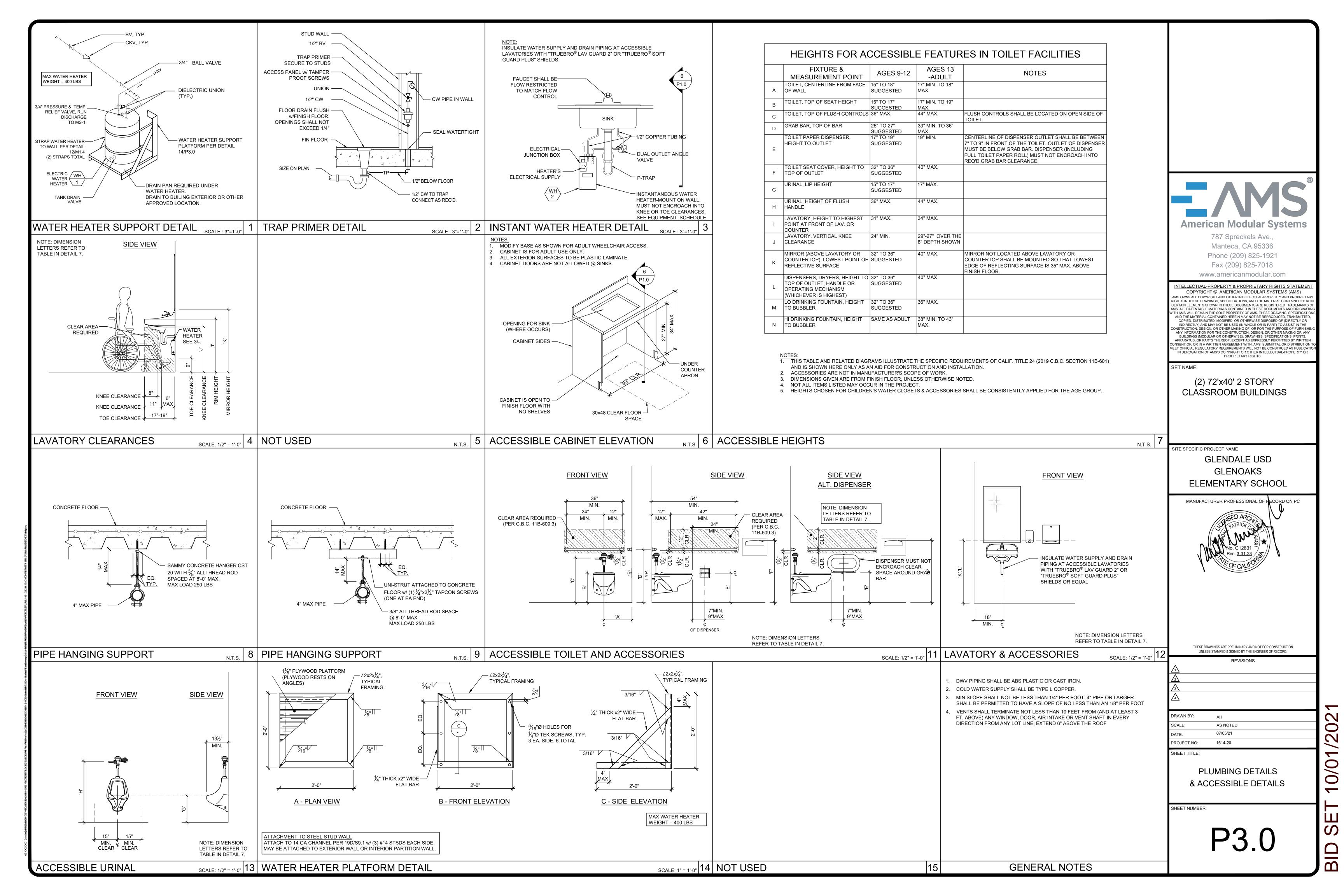
SHEET NUMBER:

F1_{.3}

LOAD PANEL CALCULATIONS - WORKROOM

4 GENERAL NOTES





DSA-OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES ROOF DECK ROOF DECK SEE SHEET FS-2 FOR ZONE OF INFLUENCE OUTLINE 6-7/8" DEEP STEEL ROOF PURLIN 1. A COPY OF THE ORIGINAL, PREVIOUSLY APPROVED DSA UNDERGROUND PIPING PLANS OR OTHER WATER SUPPLY - 6%"-DEEP STEE COMPONENTS, SUCH AS WATER TANKS, FIRE PUMPS, ETC., FOR THE PROJECT SHALL BE INCLUDED IN ALL AUTOMATIC FIRE -6%"-DEEP STEEI AFCON FIG. 551 THR SIDE BEAM BRACKET AFCON FIG. 551 THRI SIDE BEAM BRACKET SPRINKLER DEFERRED SUBMITTAL PLAN PACKAGES. ALL DEVIATIONS FROM THE PREVIOUSLY APPROVED PLANS SHALL BE COMBINED WEIGHT OF | ROOF PURLIN PEF WATER FILLED PIPE ALL PIPE IN ZONE (Wp) VALUE | ASSIGNED LOAD STRUCTURAL DRAWINGS JUSTIFIED AND SUBMITTED TO DSA VIA THE CHANGE ORDER PROCESS AS APPLICABLE. UNDERGROUND PIPING SIZE IS NOT STRUCTURAL DRAWINGS UPRIGHT HEAD THE RESPONSIBILITY OF DSA, AND THE ARCHITECT OF RECORD SHALL ASSUME FULL LIABILITY FOR UNDERSIZED PIPING 10 | 2½"(5.89) X 48' 283 LBS. (1.03) | 291 LBS. 一(2) ¼"X1" TEK SCREWS —(2) ¼"X1" TEK SCREWS SHOULD THE FINAL DESIGN OF THE FIRE SPRINKLER SYSTEM REQUIRE LARGER PIPING, ADDITIONAL WATER SUPPLY, FIRE PERCENTAGE(15) FOR FITTINGS AND DEVICES: (ICC: ESR-1976) (ICC: ESR-1976) PUMPS, OR OTHER EQUIPMENT OR ITEMS. LONGITUDINAL BRACE | TOTAL LOAD: 335 LBS. (Fp) 2. 2019 NFPA-13, SEC. 16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS, ALL PIPING SUBJECT TO FREEZING (WHERE EARTHQUAKE BRACE CALCULATIONS WATER TEMPERATURE CANNOT BE MAINTAINED ABOVE 40-DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION. (Ss) VALUE ZONE OF INFLUENCE CALCULATIONS N LATERAL BRACE - SPRINKLER 2019 NFPA-13 SEC. 6.10.2.1.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BI BRANCH LINE 2.149 (PER 2019 NFPA 13-TABLE 18.5.9.3) 1"x DROP --" X LESS THAN COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING <u>SECT-A</u> IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PIPE PENETRATION CLEARANCE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING. (THIS MUST BE - AFCON FIG. 300 PIPE RING. WITNESSED BY THE PROJECT INSPECTOR.) PIPEI PIPE SIZE, LENGTH. WEIGHT OF COMBINED WEIGHT OF I VALUE ASSIGNED LOAD NOTE: ATR MAY BE LONGER 1" PIPE = 3" HOLE ALL PIPE IN ZONE (Wp) 850 LBS MAX THREADED ROD TO 850 LBS MAX PROVIDE (WET SIGNED) WATER FLOW TEST INFORMATION NO MORE THAN 12 MONTHS OLD, AND INDICATE THE LOCATIONS 10 | 2½" (5.89) X 24' ALLOWABLE 141 LBS. FOR MAIN LINES SET TIGHT AGAINST PIF ALLOWABLE AND HEIGHT ELEVATION(S) OF THE TEST RESIDUAL FLOW HYDRANTS. WATER FLOW TEST INFORMATION MUST BE PROVIDED 40 11/4"(2.93) X 19' FOR RESTRAINT 56 LBS. $1\frac{1}{4}$ " PIPE = $3\frac{1}{4}$ " HOLE BY, OR WITNESSED BY, THE LOCAL WATER PERVAYOR, UTILITY COMPANY OR LOCAL FIRE DEPARTMENT. (2016 CFC, 508.4) -SPRINKLER PIPE 40 | 1" (2.05) X 138' 283 LBS. 480 LBS. (1.03)494 LBS. SPRINKLER PIPE PENDENT HEAD-PERCENTAGE(15) FOR FITTINGS AND DEVICES: 74 LBS. MAX 2½" MAX 70LB MAX LOAD X W/ 2" OVERSIZE RING TO ARCHITECT OF RECORD (AOR), MECHANICAL ENGINEER (ME) AND FIRE PROTECTION CONTRACTOR (C-16) SHALL AFFIX $2\frac{1}{2}$ " PIPE = $4\frac{1}{2}$ " HOLE JLB MAX LOAD TOTAL LOAD: 568 LBS. (Fp) PROVIDE 1" CLEARANCE MAX. HANGER SPACING= 12'-0" O.C. THEIR SEAL, STAMP AND SIGN ALL SUBMITTALS, OR PROVIDE DOCUMENTATION PER DSA IR-18. 6. 2019 NFPA-13 SEC. 16.2.7.5 AND SEC. 16.2.7.6: PROVIDE A SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND EARTHQUAKE BRACE CALCULATIONS NO FEWER THAN SIX (6) SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA DETAIL-3 | WALL PENETRATION TYPICAL MAIN/BRANCH LINE HANGER DETAIL— END OF LINE HANGER/RESTRAINT DETAIL-2 UP & DOWN HEADS ASSIGNED LOAD: ADJUSTED (SEE ZONE OF INFLUENCE CALCULATIONS ABOVE) FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS OF 300 TO 1,000 SPRINKLERS.) MAX. BRACE SPACING ADJUSTED ASSIGNED LOAD SPRINKLER MAIN SIZE 24' LAT. – 48' LONG. 568 LBS. (Fp) 7. 2019 NFPA-13 SEC. 16.12.5.8.1: SIGNAGE SHALL BE PROVIDED AS REQUIRED. ROOF DECK PROVIDE BLOCKING AT ALL INSIDE WALL BRACE SPACING: TABLE 18.5.11.8(B) LATERAL SWAY BRACE LOCATIONS 2019 NFPA-13 SEC. 18.6.3: THE END (LAST) SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE THAT ARE NOT LOCATED WITHIN ¼"X 1½" STEEL VERTICAL AND LATERAL MOVEMENT. MAX BRACE ANGLE MAX HORIZ. LOAD 6"−14GA−METAL Z−PURLIN 1'-0" FROM MODLINE ROOF BEAMS 59° FROM VERT. 1310 LBS. TO STEEL STUD 9. 2019 NFPA-13 FIGURE 6.10.1: A COPY OF THE COMPLETED AND SIGNED "CONTRACTOR'S MATERIAL & TEST CERTIFICATE -6%"-DEEP STEEL IN WALL RÕOF PURLIN PER - AFCON FIG. 077 SWIVEL FOR UNDERGROUND PIPING" SHALL BE INCLUDED WITH THE SUBMITTAL. FASTENER SIZE: TABLE 18.5.12.1 - PER STEEL CONN. & ANGLE OF BRACE STRUCTURAL DRAWINGS " BOLT W/ IN WALL BLOCKING -10. 2019 NFPA-13 SEC. 6.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO WORKING PRESSURE SHALL BRACE ANGLE (DIAGRAM) NUT AND WASHER MAX ASSIGNED LOAD SEE DETAIL 17/S9 BE HYDROSTATICALLY TESTED AT 200-PSI, OR 50-PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS NUT AND WASHER が"X 1½" HEX BOLT 45°-59° FROM VERT.(FIG.E)(STEEL CONN.) 2050 LBS. GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (TEST TO BE WITNESSED BY PROJECT - AFCON FIG. 077 SWIVEL INSPECTOR.) SEISMIC BRACE ATTACHMENT ——1" SCH.40 PIPE (7'-0" MAX) STRUCTURAL ATTACHMENT FITTING BRACING SYSTEM 11. 2019 NFPA-13 FIGURE 28.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND STEEL STUD ------1" SCH.40 PIPE (7'-0" MAX) TEST CERTIFICATE FOR THE ABOVE GROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL MAKE: AFCON — MODEL: 077 @ LATERAL BRACING INSIDE WALL FORWARD IT TO DSA FOR FILING IN PROJECT RECORDS. LISTED LOAD RATING: 2015 ADJUSTED LOAD RATING PER 18.5.11.8: 1612 (.8) PROVIDE PURLIN BLOCKING LONG. BRACE-PER 19/S8.1 OR 16/S9.1 SWAY BRACE (PIPE ATTACHMENT) FITTING: PARALLEL TO 12. 2019 NFPA-13 SEC. 28.5.1: A PERMANENT HYDRAULIC CALCULATION DESIGN INFORMATION PLACARD SHALL BE ATTACHED LOCATED WITHIN 4" OF SWAY ----- MODEL: 001/020 SPRINKLER MAIN MAKE: AFCON ----TO EACH RISER. BRACE BOLTED CONNECTION LISTED LOAD RATING: 800 ADJUSTED LOAD RATING PER 18.5.11.8: 640 (.8) -AFCON FIG. 001/020 13. 2019 NFPA-13 SEC. 28.2.3.1: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S AFCON FIG. 41 LATERAL BRACE PIPE -FAST CLAMP TEST VALVE IS OPENED, AN ALARM WILL SOUND NO MORE THAN 90-SECONDS AFTER THE INITIAL FLOW. (TEST TO BE AFCON FIG. 078 — PIPE CLAMP PERPENDICULAR TO WITNESSED BY THE PROJECT INSPECTOR.) SWIVEL SPRINKLER MAIN FIG. 077 414 lbs. EXPECTED MAX LOAD ¼"X 1½" STEE 2019 CBC, SEC. 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING, WATER-FLOW AND TROUBLE SIGNALS SHALL NOTE: SWAY BRACE TO BE SWIVEL BE DISTINCTLY DIFFERENT, AND SHALL AUTOMATICALLY BE TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING TEK SCREW: HANGER/RESTRAINT NOTE LOCATED WITHIN 1' OF FIRE SPRINKLER -TO STEEL STUD FIRE SPRINKLER-MAIN LINE 21/2" MAX MODLINE ROOF BEAM ** LATERAL BRACING IS NOT REQUIRED ON PIPES INDIVIDUALLY SUPPORTED BY RODS LESS MAIN LINE 21/2" MAX 15. 2019 NFPA-13 SEC. 16.17: AND 2016 CBC, 903.4.2: THE FLOW SWITCH SHALL BE CONNECTED TO AN APPROVED THAN 6" LONG, PER 2019 NFPA-13, SECT-18.6.5 189 lbs. EXPECTED MAX LOAD EXTERIOR ALARM BELL OR OTHER AUDIBLE ALARM DEVICE (SIZE NOT MANDATED BY CODE) AT EACH RISER. APPROVED ** THE END OF LINE RESTRAINT DETAIL #2 ON THIS PLAN WILL RESTRAIN END SPRINKLER AGAINST EXCESSIVE VERTICAL MOVEMENT, AND LATERAL MOVEMENT IS LIMITED BY THE IDENTIFICATION SIGNS STATING "SPRINKLER FIRE ALARM-WHEN ALARM SOUNDS CALL 911/FIRE DEPARTMENT" SHALL BE INSTALLED ON THE EXTERIOR ALARM BELL. LONGITUDINAL SWAY BRACE DETAIL-5 DETAIL-6 LATERAL SWAY BRACE SHORT RODS (6" OR LESS) WHICH MEET THE ABOVE EXCEPTION FOR LATERAL BRACING. 4-WAY SWAY BRACE NO ADDITIONAL' BRACING OR SPLAY WIRE IS REQUIRED ON BRANCH LINES. 2016 CBC, SEC. 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARM SIGNALS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS. (TEST TO WITNESSED BY PROJECT INSPECTOR.) 17. 2016 CBC, 903.4.2 AND 2019 NFPA-13 SEC. 16.14.2.1 THRU SEC. 8.17.4.2.4: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED DOWNSTREAM OF THE ALARM DEVICE (WATERFLOW SWITCH). THE PIPE SIZE SHALL BE NO LESS THAN -90° ELBOW -1-INCH, WITH A SMOOTH BORE, CORROSION RESISTANT ORIFICE, PROVIDING EQUIVALENT FLOW OF THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED ON THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING. GROOVED ELBOW W/ GROOVED -FLEXIBLE COUPLINGS 18. CCR TITLE-19 (PUBLIC SAFETY), ARTICLE 906 (A): A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION (FDC) OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM, INDICATING THE DATE OF THE INSTALLATION AND/OR THE DATE SERVICE WAS PERFORMED, AND THE LICENSE NUMBER OF THE PERSON PERFORMING THE 10" LONG NIPPLE 'D'-FRAMING MEMBERS -HILTI FIRE STOP MIN. 5/8" DIA-BEAD CAULK SEE DETAIL-7 GENERAL NOTES HOSE & BRAID ---FLEX COUP. — SPRINKLER PIPE 1. THIS PLAN DETAILS THE FIRE SPRINKLER SYSTEM FOR: GLENOAKS E.S. 2-STORY - GYP. BOARD WALL 2015 EAST GLENOAKS BLVD PIPE HANGER GLENDALE, CA SECTION A-A GROOVED TEE W/ L4-WAY SWAY BRACENORMAL POSITION BUILDING CONSTRUCTION TYPE: VB FLEXIBLE COUPLINGS WITHIN 6'-0" OF BUILDING OCCUPANCY: E 180° RETURN —— ASSEMBLY (TYP) HILTI SYSTEM NO. W-L-1054 SPARE HEAD BOX (12) 3-EACH HEAD PER TYPE OF HEAD 4. BUILDING AREA: (2 FLOORS) 72' X 40' = 5,760 sq. ft. AIR RELEASE OR DRAIN PLUG $(2 \text{ FLOORS}) 72' \times 40' = 5,760 \text{ sq. ft.}$ 1-EACH WRENCH PER TYPE OF HEAD CORRIDOR 2,304 sq. ft. 4-WAY SWAY BRACE -(LOCATION TO BE METRA-FLEX FIRE LOOP SEE DETAIL #4 THIS SHEET FOR SEE DETAIL-7 COORDINATED WITH SCHOOL) 5. ALL DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13--2019 HOLE SIZES)" ALARM BELL CONNECTED FLEX COUP. -TO FLOW SWITCH SEISMIC CONNECTION (ALT.) | DETAIL-8B 6. SYSTEM IS DESIGNED FOR LIGHT HAZARD OCCUPANCY @0.10 GPM/SQ.FT. OVER THE (WIRING BY OTHERS) HYDRAULICALLY MOST REMOTE AREA + 100 GPM OUTSIDE HOSE STREAM ALLOWANCE 300 PSI SYSTEM GAUGE ASSY. — DETAIL-9 HILTI SYSTEM NO. W-L-1054 200° RELIABLE F1FR UPRIGHT HEAD -(AREA REDUCED PER NFPA-13, WITH USE OF QUICK RESPONSE HEADS.) BELOW AGF 1011A 11/4"-TEST/DRAIN CEILING SPRINKLERS ARE @ MAXIMUM 225 SQ.FT. SPACING. ATTIC SPRINKLERS ARE TYPICAL HANGER (SEE DET-1 THIS SHEET) W/ RELIEF VALVE & ½" ORIFICE AT MAX. 168 SQ.FT. SPACING. MAIN FITTING NOTES: HYDRAUI IC A. ALL SPRINKLER MAIN PIPING 2"-4" TO BE SCH.10 PER NFPA-13 PLACARD B. ALL MAIN OUTLETS TO BE UL LISTED (GROOVED AND OR FEMALE THREADED FROM BRANCHLINE -C. WELDING TO BE PERFORMED I.A.W. NFPA-13, IF REQUIRED. ELECTRIC FLOW SWITCH D. ALL MAIN FITTINGS TO BE ROLL-GROOVED. CONNECTED TO FIRE E. ALL MAIN COUPLINGS TO BE ROLL-GROOVED, NON-FLEXIBLE, UNO. ALARM BELL BRANCH LINE FITTING NOTES: EXTERIOR WALL (WIRING BY OTHERS) RUN PIPE A. BRANCH LINE PIPING (THREADED) 1"-2" TO BE THREADED SCH-30 OR 40 PER WITHIN WALL NFPA-13, WITH STANDARD WEIGHT (125 LB.) SCREWED CAST OR DUCTILE IRON FITTINGS. -2½" MAIN BRANCH LINE JNI-STRUT WITH 9. CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS FINISH CEILING -155° RELIABLE F1FR PENDENT AND FLOORS. HOLES SHALL BE 2" LARGER THAN THE DIAMETER FOR 1" TO 3" AND 4" LARGER THAN THE DIAMETER FOR PIPES 4" AND LARGER. 2½" GXG BUTTERFLY VALVE -SPRINKLER HEAD W/ BUILT IN TAMPER SWITCH 10. ALL FIRE SPRINKLER SYSTEM EQUIPMENT TO BE UNDERWRITER LABORATORY (UL) (MONITORED BY FIRE ALARM SYSTEM LISTED AND CONSISTENT WITH NFPA-13. BALL VALVE AS REQUIRED 11. ALL PIPE HANGERS TO BE IN ACCORDANCE WITH NFPA-13 AND DWG.-DETAILS. - FLEX COUP. 12. ALL SWAY (EARTHQUAKE) BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS TO 16"X16" ACCESS PANEL-BE IN ACCORDANCE WITH NFPA-13, SEE DETAIL AND ZONE OF INFLUENCE (BY OTHERS) CALCULATIONS FOR INFORMATION ON SPACING, BRACE TYPE, AND ATTACHMENT ____ _ <u>DB_FIRE_POC_</u> 2½" x REDUCING FLANGE

13. ALL ARM-OVERS TO BE 1" X 0-4" UNLESS NOTED OTHERWISE. 14. ON THE END HANGER, ATR SHALL BE TIGHTENED DOWN AGAINST THE TOP OF PIPE

TO PREVENT MOVEMENT. 15. SPRINKLERS SHOWN IN ACOUSTICAL CEILINGS TILES ARE NOT NECESSARILY IN

CENTER OF TILE. 16. ALL ELECTRICAL WIRING AND MONITORING OF ALARMS AND/OR SUPERVISORY

SWITCHES ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM TO BE PERFORMED BY OTHERS, PRIOR TO FINAL INSPECTION.

17. UPON COMPLETION OF THE INSTALLATION A 200 PSI HYDRO TEST FOR 2-HRS WILL BE PROVIDED FOR INSPECTION. 18. UNDERGROUND PIPING SHALL BE FLUSHED PER NFPA-13, PRIOR TO CONNECTION TO

SPRINKLER SYSTEMS. 19. D & B FIRE EXTENT OF WORK TO BE AT BASE OF RISER - (SEE RISER DETAIL)

20. A SPARE HEAD BOX WITH HEADS AND WRENCH SHALL BE PROVIDED AT EACH RISER.

21. UPON COMPLETION, THE FOLLOWING SHALL BE PROVIDED TO OWNER: COMPLETED CONTRACTORS MATERIAL & TEST CERTIFICATE: COPY OF NFPA-25.

22. DEVIATIONS FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION (NFPA-13-2019 EDITION, SECTION 27.1.2)

WATER FLOW INFO.

110 PSI

1,680 GPM

RESIDUAL:

INFORMATION FROM:

SOUTH PASADENA WATER DEPT DATED: 7-8-2020

FLOW:

DETAIL-11 INSPECTORS TEST DETAIL AUTHORITY HAVING JURISDICTION UNDERGROUND FIRE MAIN NEW UNDERGROUND PIPING #\ DATE: BY: REVISIONS: ==== EXISTING UNDERGROUND PIPING NOTIFIED POST INDICATOR VALVE (PIV) ⊗ KEY VALVE TIRE DEPARTMENT CONNECTION (FDC) tÖ≇ FIRE HYDRANT

FLOOR LINE -

MANUAL AIR VENTING PER

NFPA 13 8.1.5

IN-WALL INSPECTORS TEST DETAIL

· 2" CLEARANCE

SHEETS

2½" ASR

— CONC. THRUST BLOCK

(BY OTHERS) SEE CIVIL

ALL AROUND

UNDERGROUND FIRE

LINE (BY OTHERS)

SEE CIVIL SHEETS

45° ELBOW FITTED

WITH HEAD ORIFICE

TO PROVIDE EQUIVALENT HEAD FLOW



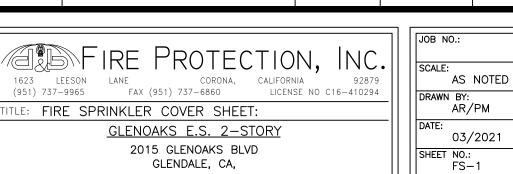
155° RELIABLE F1FR PENDENT -

SPRINKLER HEAD

BRANCH LINE

LEND OF LINE HANGER/RESTRAINT

(SEE DET-2 THIS SHÉET)



LONGITUDINAL VIEW

IN WALL

DETAIL-4

FIG. 077

PLYWOOD

DETAIL-

— HANGER

∕−10" LONG NIPPLE 'D'

& NIPPLE 'E'

└COUPLING 'B'

MOVEMENT

8½" FOR 3" PIPE 7½" FOR 2½" PIPE

DETAIL-8

15 ft.

15 ft.

PROTECTION

AREA

ELEVATION

LONGITUDINAL MOVEMENT LATERAL MOVEMENT |

SYSTEM TYPE:

HYDRO CALC'D 225sq.ft.

SEISMIC CONNECTION

TABLE 10.2.4.2.1(a) Sprinkler Head Protection area & spacing for Light Hazo

-UNI-STRUT

SPRING NUT

½" X 1" BOLT W/ UNI-STRUT SPRING

NUT & WASHER

-(2) AFCON FIG.

-FIRE RISER

001/020 CLAMPS

SPACING $\mathbf{\Omega}$

> HYDRAULIC CALC. REFERENCE POINT HANGER LEGEND 4-WAY SWAY BRACE LONG./LAT. SWAY BRACE FIRE RISER TYP. HANGER X END OF LINE HANGER/RESTRAINT

COMBUSTIBLE UNOBSTRUCTED HYDRO CALC'D 225sq.ft. SCALE: $\frac{3}{16}$ " = 1'-0" American Modular Systems, Inc. 787 Spreckels Ave. Manteca, CA 95336 Phone (209) 825-1921 - Fax (209) 825-7018 americanmodular.com

-CORROSION RESISTAN

155°-BRASS HORIZ.

SIDEWALL HEAD

CEILING DISTANCE:

4" MIN. - 12" MAX.

SPACE BY OTHERS (TYP)

NFPA 13 SECT.-18.4.2

CONSTRUCTION TYPE:

NON-COMBUSTIBLE UNOBSTRUCTED

(DEFLECTOR TO

-HOLES THRU STEEL

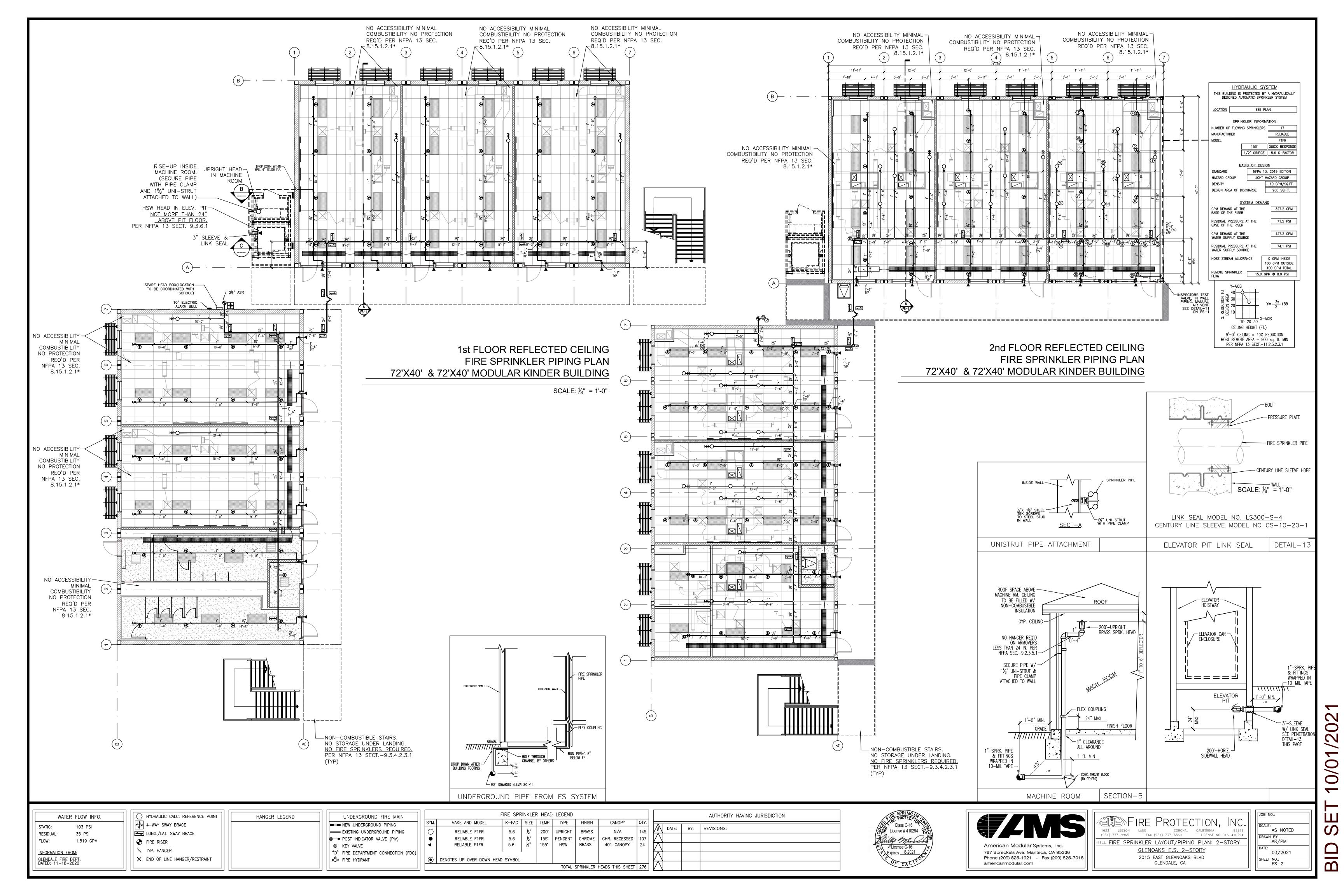
CHANNEL IN ATTIC

CLEARANCE PER

· III

FINISH CEILING-

BUILDING CROSS SECTION - A



MODULAR ELEVATOR

DSA PROCEDURE 07-01

DSA PROCEDURE 07-01	
DESCRIPTION	DESIGN VALUES
DEAD & LIVE LOADS	
-	
ALLOWABLE SOIL PRESSURE	
DD+LL (CONCRETE FOOTING)	SEE TABLE 1/S3
DD+LL+SEISMIC (CONCRETE FOOTING)	SEE TABLE 1/S3
ROOF SNOW LOAD	
ROOF SNOW LOAD: SEE TABLE 6 NOTE ON S4	45 PSF
WIND DESIGN	
TOPOGRAPHIC FACTOR, K _{ZT} (1MIN)	1.0
[X] DIRECTIONAL PROCEDURE ASCE 7-10 CHAPTER 27 PART 1	FOR MWFRS
EXPOSURE CATEGORY COEFFICIENT, K _Z	1.07 AT 60 FT
-	
	•

SITE SPECIFIC ITEM	PC DESIGN DESIGN PA	LOAD OR RAMETERS	SITE SPECIFIC LOAD (TO BE FILLED IN BY ARCHITECT/ENGINEER)
EMBELLISHMENT WEIGHT	FIRST LEVEL	600#	
	INTER- MEDIATE	600#	
	TOP	600#	
	ROOF	1200#	
			•

SIGNATURE OF SITE APPLICATION

STRUCTURAL SHEET INDEX:

SHEET S1	COVER SHEET
SHEET S1A	TESTING & INSPECTION CRITERIA
SHEET S2	GENERAL NOTES & ABBREVIATIONS

FOUNDATION PIT PLAN

SHEET S3.1A FOUNDATION DETAILS FOR MAX 44'-0" TOWER HEIGHT

HOISTWAY ROOF PLAN SHEET S4.1 HOISTWAY & ROOF DETAILS

SHEET S5A-1 HOISTWAY PLAN & ELEVATIONS- MAX 44'-0" TOWER HEIGHT

ELEVATION OR DETAIL SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS LOCATED. A DASH INDICATES THAT THE PLAN, SECTION, ELEVATION OR DETAIL OCCURS ON THE SAME SHEET FROM WHICH IT IS BEING REFERENCED.

NUMBER OR LETTER

IDENTIFYING PLAN, SECTION,

SHEET S5.1 HOISTWAY DETAILS SHEET S5.2 MISCELLANEOUS DETAILS

MACHINE ROOM FRAMING PLAN & DETAILS (PARTIAL MACHINE ROOM)

RAIL & POWER UNIT DETAILS

SHEET S5.3 HOISTWAY WALL PANELS

ELEVATOR DATA

ELEVATOR LAYOUT (PARTIAL MACHINE ROOM)

SHEET VT3 ELEVATOR CAB SHEET VT4 ACCESS COMPLIANCE

APPLICABLE CODES:

PARTIAL LIST OF APPLICABLE CODES AS OF January 1. 2017
2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE VOLUMES 1 — 3 AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.

(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA ELEVATOR AND CONVEYING CODE CBC CHAPTER 30

2016 CALIFORNIA BUILDING CODE CBC CHAPTER 11B

(2015 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2014 UNIFORM MECHANICAL CODE AND 2015 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.

2013 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1-2013)

2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.

(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

TITLE 8 C.C.R., CH4, SUB-CH6-ELEVATOR SAFETY ORDERS

PARTIAL LIST OF APPLICABLE STANDARDS

AUTOMATIC SPRINKLER SYSTEMS 2016 Edition with 2016 California Amendments NFPA 14 STANDPIPE SYSTEMS (CALIFORNIA AMENDED) 2016 Edition with 2016 California Amendments NFPA 17a WET CHEMICAL SYSTEMS 2016 Edition NFPA 20 STATIONARY PUMPS 2016 Edition PRIVATE FIRE MAINS (CALIFORNIA AMENDED) 2016 Edition with 2016 California Amendments NFPA 24 NFPA 72 NATIONAL FIRE ALARM CODE 2016 Edition with 2016 California Amendments

(CALIFORNIA AMENDED) CLEAN AGENT FIRE EXTINGUISHING SYSTEMS NFPA 2001 2016 Edition

ASME 17.1/CSAB44 ELEVATOR STANDARD 2016 Edition with A17.1 a/CSA B44a-08 addenda

REFERENCE CODE SECTIONS FOR NFPA STANDARDS - 2016 CBC CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

NOTES TO PLAN REVIEWER AND DESIGN PROFESSIONAL:

- 1. All DRAWING ARE TO BE SUBMITTED WITH THE FOLLOWING EXCEPTIONS: A. SUBMIT S5A BASED ON SITE SPECIFIC TOWER HEIGHT.
- 2. WHERE OPTIONS ARE NOTED, DESIGN PROFESSIONAL SHALL INDICATE OPTION CHOSEN. WHERE APPROVED BY DSA. AND IN A TWO-STORY BUILDING OR STRUCTURE WITH STAIRS THAT WILL ACCOMMODATE THE CARRYING OF A GURNEY.
- ELEVATORS ARE NOT REQUIRED TO ACCOMMODATE A GURNEY. 3. PC IS NOT APPROVED FOR STOCKPILE AND FLOOD ZONE, DETAILS THAT ARE NOT APPLICABLE TO SPECIFIC PROJECT ARE TO BE CROSSED OUT.
- SPRINKLER REQUIREMENTS TO BE INCLUDED AS PART OF THE SITE APPLICATION DRAWINGS ELEVATOR CANNOT BE SET WITHOUT A SITE SPECIFIC APPLICATION. ALSO, THESE SITE SPECIFIC APPLICATIONS MUST
- SEISMIC JOINT BETWEEN BUILDING & ELEVATOR TOWER. SEE TOWER DISPLACEMENTS ON SHEET S5 & S5A
- SPECIFICATIONS AND DETAILS FOR ROOFING FINISHES (SEE NOTE ON SHEET S4)
- FLASHING
- ELECTRICAL
- 6. RATING OF CONSTRUCTION PER CBC 3002.1. PROJECT ARCHITECT TO DETERMINE CONSTRUCTION TYPE. 7. SITE SPECIFIC ARCHITECT/ENGINEER OF RECORD TO SIGN AND STAMP THE PROJECT SPECIFIC FORM DSA 103.
- 8. SITE SPECIFIC ITEMS NOTED ON SHEET S4 ARE TO BE SHOWN ON SITE SPECIFIC DRAWINGS.
- 9. SITE SPECIFIC SOILS REPORT IS REQUIRED WHERE A SOILS PRESSURE GREATER THAN 1500 PSF IS CHOSEN. 10. SITE SPECIFIC ARCHITECT/ENGINEER TO PROVIDE A MINIMUM 1/4" PER FOOT ROOF SLOPE.
- 11. WHERE SNOW LOAD OPTION IS CHOSEN, PROVIDE A ROOF JOIST DESIGN FOR DRIFT OR PROVIDE A 20' 0" SEPARATION DISTANCE BETWEEN THE ROOF AND ADJACENT STRUCTURE OR TERRAIN FEATURE. SEE TABLE 6 NOTE ON
- 12. PER CBC 3002.4A ALL BUILDINGS OR STRUCTURES TO BE PROVIDED WITH NO LESS THAN ONE MEDICAL EMERGENCY SERVICE ELEVATOR.
- 13. WHERE APPROVED BY AHJ. AND IN A TWO-STORY BUILDING OR STRUCTURE WITH STAIRS THAT WILL ACCOMMODATE THE CARRYING OF A GURNEY. ELEVATORS ARE NOT REQUIRED TO ACCOMMODATE A GURNEY.
- 14. FOR ELEVATORS WHERE HOISTWAY PROTECTION IS REQUIRED. HOISTWAY TO BE PROVIDED WITH SHAFT CONSTRUCTION IN ACCORDANCE WITH CBC 713.
- 15. CONSTRUCTION TYPE, OCCUPANCY CLASSIFICATION, BUILDING HEIGHT SHALL BE DETERMINED DURING SITE PLACEMENT DRAWING SUBMITTAL IN CONJUNCTION WITH THE BUILDING THAT THIS MODULAR ELEVATOR EQUIPMENT'S STRUCTURE
- 16. FOR MAXIMUM CLADDING LOAD. SEE NOTE ON SHEET S4.

DESIGN CRITERIA (2016 CBC):

OCCUPANCY

ELEVATOR CAR WEIGHT = 4000 LBS

ELEVATOR CAR CAPACITY = 4000 LBS MAX (2500 LBS AT HW-1)

ROOF LIVE LOAD 20 PSF (REDUCIBLE) TYP ROOF DEAD LOAD ... 20 PSF MAX

SNOW LOADS

 \boxtimes STD Pg = 20 PSF

GRAVITY ROOF LOADS

CATEGORY II

 \square OPT Pg = 45 PSF

LATERAL LOADS

EXPOSURE WIND SPEED.

IMPORTANCE FACTOR I INTERNAL PRESSURE COEFFICIENT $GC_{PI} = \pm 0.18$ (ENCLOSED) COMPONENTS & CLADDING (DESIGNED BY OTHERS) ASCE 7-10 METHOD 1, λ= 1.53 (44 FT ELEVATOR)

ROOF + 14.0 PSF OR -84 PSF (44') CLADDING ± 44.0 PSF (44')

MAX BASE SHEAR 44 FT ELEV V = EQUIVALENT LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)

 $V_x = 19.2K$ $V = C_s W = 0.513W (STRENGTH)$ $V_Y = 19.2K$ * Cs = $\frac{S_{DS}}{(R/I)} = \frac{0.513}{}$

ORDINARY STEEL CONCENTRICALLY BRACED FRAMES AND BASIC SEISMIC-FORCE-RESISTING SYSTEM:

LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING

LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING

SITE CLASS = D $I_e = 1.0$ * $S_s = \underline{2.5}$ $F_a = \underline{1.0}$ $S_{DS} = \underline{1.67}$ $\Omega \circ = 2$ $S_1 = 2.0$ $F_V = 1.5$ $S_{D1} = 2.0$ $\rho = 1.3$ $C_d = 3.5$

SEISMIC DESIGN CATEGORY: E

*FOR STRUCTURES LESS THAN 5 STORIES TALL: THIS STRUCTURE MAY BE LOCATED AT ANY SITE WITH AN S_S LESS THAN 2.50. THE HEIGHT OF THE STRUCTURE SHALL BE LIMITED SUCH THAT THE PERIOD SHALL NOT EXCEED 0.5 SEC. PER SECTION 12.8.2.1 & UPPER LIMIT OF TABLE 12.8-1 OF ASCE 7-10 THE FOLLOWING TABLE HAS BEEN DERIVED.

Sdi	C υ	HEIGHT (FT) MAX
0.2 < S _{DI} ≤ 0.3	1.5	44'-0"

FLOOD DESIGN

ELEVATOR / BUILDING NOT APPROVED FOR FLOOD HAZARD AREA.

SPECIAL LOADS

NONE APPLICABLE

PROJECT DATA INTERIOR OR EXTERIOR INSTALLATION

OCCUPANCY CLASSIFICATION .

CONSTRUCTION TYPE .. □ V-A 1 HR

□ II-A - 1 HR

□ II-B - N (NON-RATED)

□ III-A - 1 HR

□ III-B - N (NON-RATED) SERVE UP TO 2 STORIES AND HAVE UP TO 4 STOPS. OR UP TO TWO STORIES AND HAVE UP TO 4 STOPS

SHAFT CONSTRUCTION IN ACCORDANCE WITH CBC 713.4. FOR CONSTRUCTION TYPES II-A, II-B, III-A, V-A, V-B ELEVATORS IN SHAFTS TO BE IN 1HR SHAFT CONSTRUCTION IS NOT INSTALLED IN A BUILDING AND/OR OPENING BETWEEN FLOORS IS PERMITTED TO BE WITHOUT SHAFT ENCLOSURE BY CBC 712.1, SHAFT ENCLOSURE NOT REQUIRED. ELEVATOR ENCLOSURE TO COMPLY WITH ASME A.17.1

ELEVATOR BUILDING AREA 88 SQ FT (APPROX)

MODULAR EQUIPMENT ROOM AREA 85 SQ FT (APPROX) FIRE SPRINKLERS. NOT PART OF THE PC APPROVAL. SPRINKLER REQUIREMENTS TO BE INCLUDED IN THE SITE APPLICATION DRAWINGS. SPRINKLERS NOT REQUIRED WHERE ALL

> PROVISIONS OF CBC 3006.4.1 ARE MET SPRINKLERS AT TOP OF THE SHAFT NOT REQUIRED PER NFPA 13 SECTION 8.15.5.6.

☑ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

▼ THIS DRAWINGS, PAGE OF SPECIFICATIONS / CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR:

- 1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY MEM, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS
- LOCATION OF ELEVATOR IS TO COMPLY WITH CBC CHAPTERS 3, 5, 6, 7, 10 AND 30 AND SITE SPECIFIC PROVISIONS. (BUT NOT LIMITED TO) 4. ANY FIRE ALARM SUBMITTAL SHALL COMPLY WITH 2016 CBC SECTION 907.3.3; 3006.5 AND NFPA 72 AS AMENDED BY DSA/SFM. FIRE ALARM
- CONSTRUCTION DOCUMENTS FOR SITE-SPECIFIC APPLICATION TO DSA SHALL INCLUDE A COPY OF THE DSA-103 FORM FOR STRUCTURAL TEST AND SPECIAL INSPECTIONS.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 2. (TITLE 24, PART 1, SECTION 4-317)

03-31-23

EXPIRATION DATE

MEM S AND VT DRAWINGS HAVE BEEN REVIEWED AND ACCEPTED.

Ruell llung

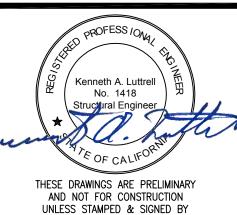
C12631

LICENSE NUMBER

03-23-21 SIGNATURE OF THE ARCHITECT/ENGINEER

S.E. PC APPROVAL

NO. DATE REVISION



THE ENGINEER OF RECORD.

MODULAF ELEVATOR

MANUFACTURING

 \sim Q S > 8

PRE-CHECK (PC) DOCUMENTS 2016 CBC CODE SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS

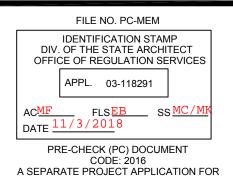
PERMISSION OF MODULAR ELEVATOR

MANUFACTURING, INC. IS STRICTLY

PROHIBITED. PROJECT NO: 16093

ENGINEERED BY: KAL

DRAWN BY: MTC



10/19/2018

CONSTRUCTION IS REQUIRED

COVER SHEET

SHEET NO:

SHEET NAME:

the bottom of this form identifies work NOT subject to DSA requirements for special

form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A. NOTE: This form is also available for projects submitted for review under the 2007, 2010,

School Name MODULAR ELEVATOR MANUFACTURING

X 28. High Strength Threaded Rod

Test - Indicates that a test is required

List of required verified report(s):

Special Inspections - 2016 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this

DSA File No.:

03-118291

		$\stackrel{\bullet}{A}$	
	D	E P A R T M E	DIVISION OF THE STATE ARCHITE NT OF GENERAL SERVIC
_			
I	S.	E. P	C APPROVA
			D PROFESS /ONA/

/ Kenneth A. Luttrell

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

UNLESS STAMPED & SIGNED BY

MODULAF

ELEVATOR

MANUFACTURING

THE ENGINEER OF RECORD.

NO. DATE

TEST OR SPECIAL INSPECTION CODE REFERENCE AND NOTES - SOILS 1. GENERAL: Table 1705A. • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. foundation excavations are extended to proper depth and have * By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.) reached proper material, and

materials below footings are adequate to achieve the design 2. COMPACTED FILLS: b. Verify use of proper materials, densities and inspect lift Continuous GE* * By geotechnical engineer or his or her qualified representative. thicknesses, placement, and compaction during placement of fill Test LOR* * Under the supervision of the geotechnical engineer. 5. RETAINING WALLS: Continuous GE Placement, compaction and inspection of backfill per Section 1705A.6.1 for fills supporting foundations (see Section 2 above). Placement of soil reinforcement, drainage devices, and backfill. - CONCRETE Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13 7. CAST IN PLACE CONCRETE Material Verification and Testing: Table 1705A.3 Item 5, 1910A.1 (1909.2.3⁺). * To be performed by qualified batch-plant inspector at a. Verify use of required design mix. concrete sampling technician b. Identifiy, sample, and test reinforcing steel. Test LOR 1910A.2 (1909.2.4⁺); ACI 318-14 Section 26.6.1.2. DSA IR 17-10 c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and LOR Table 1705A.3 item 6; ACI 318-14 Sections 26.5 & 26.12 determine the temperature of the concrete. M d. Test concrete (f'c). Test LOR 1905A.1.16 (1909.3.7⁺); ACI 318-14 Section 26.12. Default of 'Continuous' per 1705A.3.3: If approved by DSA, batch plant inspection may be reduced e. Batch plant inspection Continuous Periodic SI to 'Periodic' subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See Appendix for exemptions.) Continuous SI 11. POST-INSTALLED ANCHORS: Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14 a. Inspect installation of post-installed anchors See Notes SI* Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by X b. Test post-installed anchors. Test LOR 1910A.5 (1909.2.7⁺). (See Appendix for exemptions. + MASONRY TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 - STEEL, ALUMINUM Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 - 17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES a. Verify identification of all materials and: 2203A.1 (2203.1⁺), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI · Mill certificates indicate material properties that comply with performed off-site. Material sizes, types and grades comply with requirement c. Examine seam welds of HSS shapes Inspection:

e. Verify and document steel fabrication per DSA approved Periodic SI Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). construction documents. 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural 19. WELDING: steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel, (See Appendix for exemptions.) Verification of Materials, Equipment, Welders, etc Verify weld filler material identification markings per AWS Periodic SI DSA IR 17-3. designation listed on the DSA approved documents and the WP b. Verify weld filler material manufacturer's certificate of Periodic SI DSA IR 17-3. compliance. c. Verify WPS, welder qualifications and equipment. Periodic SI DSA IR 17-3. 19.1 SHOP WELDING: 1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable). b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds 20. NONDESTRUCTIVE TESTING: Test LOR 1709A.2.1 & 1709A.2.5. AISC 300-10 No.5, AISC 341-10 App. Q 5.2. AWS D1.1, D1.6.

ANIS/ACNIT OR 100 CNLT TO 12 23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL: LOR IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable. Shop welding: Inspect welding of structural cold-formed + WOOD - OTHER

All Structural Testing: Laboratory Verified Report - Form DSA-291 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-291 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292 Performed By -GE – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her tinuous – Indicates that a continuous special inspection is required thorized representative LOR - Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Periodic - Indicates that a periodic special inspection is required Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.

Soils testing and Inspection: Geotechnical Verified Report - Form DSA-29

(Issued 12-30-16)

+ In the CODE REFERENCE AND NOTES column indicates DSA-SS/CC sections that may be used by community colleges, per 20136 CBC Sec. 1.9.2.2.

- Indicates that the special inspection is to be performed by a special inspector

INSPECTION NOTES:

IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 108 OF THE 2016 CBC, THE OWNER SHALL EMPLOY A DSA APPROVED SPECIAL INSPECTOR TO PERFORM SPECIAL INSPECTIONS & TESTS AS INDICATED IN DSA FORM NO. DSA 103

- ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY WHICH IS IN THE EMPLOYMENT OF THE SCHOOL DISTRICT.
- 2. ALL SPECIAL INSPECTION & TESTING AGENCIES SHALL BE QUALIFIED PER ASTM E329, APPROVED BY DSA AND SHALL SUPPLY ALL OF THEIR OWN TESTING EQUIPMENT.
- PROVIDE INSPECTION REPORTS TO DSA, OWNER, ARCHITECT AND ENGINEER WITHIN TWO WEEKS OF PERFORMANCE OF INSPECTION OR TEST.
- REFER TO CHAPTER 17A OF THE CODE FOR OTHER REQUIRED SPECIAL INSPECTIONS AND TESTS NOT LISTED IN THE SCHEDULE ON DSA FORM NO. DSA 103. FOR EXAMPLE, SPRAY APPLIED FIRE-RESISTANT MATERIALS PER CBC 1705A.13.
- IT IS THE CONTRACTORS RESPONSIBILITY TO SEE THAT THE TESTS AND INSPECTIONS ARE PERFORMED. JOB SITE VISITS BY STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS.
- WHERE THE CONTRACTOR CHOOSES TO USE AN APPROVED ALTERNATIVE MEANS FOR FASTENING OR ANCHORING MATERIALS THAT REQUIRE SPECIAL FIELD INSPECTION, SUCH AS FIELD WELDING, ADHESIVE OR EXPANSION ANCHORS, ETC. ALL ADDITIONAL SPECIAL INSPECTION AND TESTING COSTS SHALL BE PAID BY THE SCHOOL DISTRICT AND DEDUCTED FROM THE CONTRACT AMOUNT.
- ADDITIONAL PAYMENTS AT CUSTOMARY AND PREVAILING WAGE RATES WILL BE REQUIRED IN RESPONSE TO INSPECTION REQUESTS IF NO DEFICIENCIES ARE FOUND.
- ADDITIONAL PAYMENTS AT CUSTOMARY AND PREVAILING WAGE RATES WILL BE REQUIRED FOR ADDITIONAL WORK PERFORMED BY THE STRUCTURAL ENGINEER IN RESPONSE TO INSPECTION REQUESTS IF <u>NO</u> DEFICIENCIES ARE FOUND.

- INSPECTION BY PROJECT INSPECTOR. THE SCHOOL BOARD MUST PROVIDE FOR AND REQUIRE COMPETENT, BY A DSA APPROVED INSPECTOR SATISFACTORY TO THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION, TO ANY ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR A PORTION OF THE WORK, AND TO DSA. THE COST OF PROJECT INSPECTION SHALL BE PAID FOR BY THE SCHOOL BOARD. AN INSPECTOR SHALL NOT HAVE ANY CURRENT EMPLOYMENT RELATIONSHIP WITH ANY ENTITY THAT IS A CONTRACTING PARTY FOR THE CONSTRUCTION.
 - DSA APPROVAL OF THE IN-PLANT INSPECTOR SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF FABRICATION.
- 11. FOR ELEVATOR TOWERS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR SHALL ATTACH A COMPLETED AND SIGNED VERIFIED REPORT (FORM DSA-6) INSIDE EACH TOWER. THE VERIFIED REPORT SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH TOWER AS WELL AS THE DSA FILE AND APPLICATION NUMBERS.
- 12. THE LOCATION OF THE IDENTIFICATION LABEL FOR TOWERS THAT ARE MANUFACTURED IN-PLANT PER <u>6/S5 AND 7/S5</u>. THE LABELS SHALL SHOW THE DSA APPLICATION NUMBER UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED, THE MANUFACTURER OR BUILDER'S NAME, THE SERIAL NUMBER, THE DESIGN CLIMATE ZONES (PER TILE 24, PART 6, SECTION 143 (a)8), THE DESIGN LIVE LOADS FOR THE ROOF, AND THE DESIGN WIND SPEED AND EXPOSURE CATEGORY. THE LOCATION OF THE IDENTIFICATION LABELS SHALL BE SHOWN ON THE PRE-CHECKED BUILDING PLANS.
- DESIGN MIX NOT REQUIRED FOR NON-SHRINK GROUT.
- 14. A PROJECT EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R.; IN-PLANT-RBIP OR CLASS 1 SITE: CLASS 2. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.

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PRE-CHECK (PC) DOCUMENTS 2016 CBC CODE SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

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PROHIBITED. PROJECT NO: 16093 10/19/2018

ENGINEERED BY: KAL DRAWN BY: MTC

> FILE NO. PC-MEM IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL. 03-118291 AC MF FLS EB SS M

PRE-CHECK (PC) DOCUMENT A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED S

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SHEET NAME:

TESTING AND **INSPECTION CRITERIA**

SHEET NO:

FORM DSA-103 NOTES

THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSED ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PRE-CHECK IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

STRUC	TURAL ABBREVIATIONS			
@ L	AT	INFO	INFORMATION	1. 2.
BV	ANGLE ABOVE	JST JT	JOIST JOINT	
В	ANCHOR BOLTS	LL	LIVE LOAD	3.
C CI	ASPHALTIC CONCRETE AMERICAN CONCRETE INSTITUTE	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	
DDNL	ADDITIONAL	LG	LONG	4
(D) (FF	ADJACENT ABOVE FINISH FLOOR	LGTH LONG	LENGTH LONGITUDINAL	4. 5.
.GG	AGGREGATE	LS	LONG SCREW	6.
ISC LT	AMERICAN INSTITUTE FOR STEEL CONSTRUCTION ALTERNATE	LSL LT WT	LAMINATED STRAND LUMBER LIGHT WEIGHT	7.
LUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER	8.
PPROX	APPROXIMATE	LWC	LIGHT WEIGHT CONCRETE	
RCH STM	ARCHITECT/ ARCHITECTURAL AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAX MB	Maximum Machine Bolt	
WS	AMERICAN WELDING SOCIETY	MCJ	MASONRY CONTROL JOINT	
EV LW	BEVELED BELOW	MECH MEM	MECHANICAL MODULAR ELEVATOR MANUFACTURER	9.
LDG	BUILDING	MEP	MECHANICAL, ELECTRICAL, PLUMBING	٥.
LK LKG	BLOCK BLOCKING	MER MEZZ	MODULAR ELEVATOR ROOM MEZZANINE	
M	BEAM	MFR	MANUFACTURER	
N O	BOUNDARY NAILING	MN	MINIMUM	
0 0C	BY OTHERS BOTTOM OF CONCRETE	MISC MLB	MISCELLANEOUS MICROLAM BEAM	10.
OF	BOTTOM OF FOOTING	MRD	METAL ROOF DECK	
OTT RCG	BOTTOM BRACING	MTL (N)	METAL NEW	
RG	BEARING	N/A	NOT APPLICABLE	11.
RG P TW	BEARING PLATE BETWEEN	NIC NO. (#)	NOT IN CONTRACT NUMBER OR POUNDS	12.
YD	BEYOND	NO. (#) NOM	NOMINAL	
) CDC	CAMBER	NS&FS	NEARSIDE & FARSIDE	
CBC CCR	CALIFORNIA BUILDING CODE CALIFORNIA CODE OF REQULATIONS	NSG NTS	NON SHRINK GROUT NOT TO SCALE	
C	CENTER TO CENTER	NWC	NORMAL WEIGHT CONCRETE	13.
E G	CIVIL ENGINEER CENTER OF GRAVITY	OC OD	ON CENTER OUTSIDE DIAMETER	14.
ΙP	CAST IN PLACE	OSB	ORIENTED STRAND BORAD	
] JP	CONSTRUCTION JOINT COMPLETE JOINT PENETRATION	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT	
LG	CEILING	OWJ	OPEN WEB JOIST	15.
LR	CENTERLINE CLEAR	OPG OPP	OPENING OPPOSITE	16.
ilk IMU	CONCRETE MASONRY UNIT	OH	OPPOSITE OPPOSITE HAND	
OL	COLUMN	PCC	PRECAST CONCRETE	
ONC ONN	CONCRETE CONNECTION	PC PCF	PIPE COLUMN PER CUBIC FOOT	
ONSTR	CONSTRUCTION	PERP	PERPENDICULAR	
ONT OORD	CONTINUOUS COORDINATE / COORDINATION	ዊ PLWD	PLATE PLYWOOD	T
P	COMPLETE PENETRATION	PN	PERIMETER NAILING	
TR TRD	CENTER CENTERED	PP PSI	PARTIAL PENETRATION POUNDS PER SQUARE INCH	
BG	DISTANCE BETWEEN GUIDES	PSF	PER SQUARE INCH	
BL	DOUBLE	PSG	PARALLEL SHRINK GROUT	
DEPR DIA (Ø)	DEPRESSED DIAMETER	PSL PTDF	PARALLEL STRAND LUMBER PRESSURE TREATED DOUG FIR	-
DIAG	DIAGONAL	PT	POINT	
DIM DL	DIMENSION DEAD LOAD	R REINF	RADIUS REINFORCING/REINFORCEMENT	
DΝ	DOWN	REQ	REQUIRED	FOC
DSA DTL	DIVISION OF THE STATE ARCHITECT DETAIL	RJ	ROOF JOIST ROOF RAFTER	1. 2.
DWG	DRAWING	RR SAD	SEE ARCHITECTURAL DRAWINGS	3.
E) A	EXISTING CONDITION EACH	SC	SLIP CRITICAL	4.
E	EACH END	SCHED SDST	SCHEDULE SELF-DRILLING SELF-TAPPING	5.
F	EACH FACE	SE	STRUCTURAL ENGINEER	5. 6.
] LEV	EXPANSION JOINT ELEVATION	SEIS JT SHT	SEISMIC JOINT SHEET	٠.
N	EDGE NAILING/EDGE FASTENING	SHTHG	SHEATHING	7.
OS OR	EDGE OF SLAB ENGINEER OF RECORD	SHRWL	SHEARWALL	
Q (=)	EQUAL	SIM SJ	SIMILAR SHRINKAGE JOINT	CC
S	EACH MAY	SLH	SHORT LEG HORIZONTAL	<u>C(</u>
W B	EACH WAY EXPANSION BOLT	SLV SM	SHORT LEG VERTICAL SHEET METAL	1.
QUIP	EQUIPMENT	SMS	SHEET METAL SCREWS	
XTR AB	EXTERIOR FABRICATE	SOG SP	SLAB ON GRADE STRUCTURAL PANELING	2.
С	MINIMUM ULTIMATE COMPRESSIVE	SPCG	SPACING	3.
D	STRENGTH OF CONCRETE FLOOR DRAIN	SPEC	SPECIFICATION SOLVADE	٥.
F	FINISH FLOOR	SQ SS	SQUARE STAINLESS STEEL	4.
FE C	FINISH FLOOR ELEVATION	STAG	STAGGER	
G HWS	FINISH GRADE FLAT HEAD WOOD SCREW	STD STIFF	STANDARD STIFFENER	5.
IN	FINISH	STL	STEEL	э.
_G	FLANGE	STRUC SYM	STRUCTURAL SYMMETRICAL	6.
LR m	FLOOR MINIMUM ULTIMATE COMPRESSIVE	T24	TITLE 24 CALIFORNIA CODE	_
	STRENGTH OF MASONRY	THRD	THREAD OR THREADED	7.
N ND	FIELD NAILING/FIELD FASTENING FOUNDATION	THK TN	THICK/THICKNESS TOE NAIL	8.
OC	FACE OF CONCRETE	T.O.	TOP OF	9.
OM OS	FACE OF MASONRY	TOC TOF	TOP OF CONCRETE TOP OF FOOTING/	10.
OS RMG	FACE OF STUD FRAMING		TOP OF FRAMING	11.
Γ (')	FOOT/FEET	T.O. SLAB	TOP OF SLAB	11.
TG y	FOOTING SPECIFIED YIELD STRENGTH OF	TOT TOS	TOTAL TOP OF STEEL	12.
,	REIFORCING, PSI OR SPECIFIED	TOW	TOP OF WALL	
:A	MINIMUM YIELD STRESS OF STEEL, KSI	TRAN TS	TRANSVERSE (SEE HSS)	
A ALV	GAUGE GALVANIZED	TYP	TYPICAL	
L	GLUE LAMINATED LUMBER	T&B	TOP & BOTTOM	
ird T	GRADE GROUT	UBC UNO	UNIFORM BUILDING CODE UNLESS NOTED OTHERWISE	
iWB	GROUT GYPSUM WALLBOARD	URM	UNREINFORCED MASONRY	
С	HANDICAP	USS	UNITED STATE STANDARD	
D DR	HOLDOWN HEADER	VERT VIF	VERTICAL VERIFY IN FIELD	
K	HOOK	W/	WITH	
IORIZ IT	HORIZONTAL HEIGHT	W/O WDW	WITHOUT WINDOW	
IT ISB	HEIGHT HIGH STRENGTH BOLT (A325)	WF	WIDE FLANGE	
ISS	HOLLOW STRUCTURAL SECTION	WP	WORK POINT	

INTERNATIONAL BUILDING CODE

INTERNATIONAL CODE COUNCIL

INSIDE DIAMETER

INCH

INTERIOR

ICC

ID

IN (")

INTR

WOOD SCREW

WITH RESPECT TO

WEIGHT/STRUCTURAL TEE

WELDED WIRE FABRIC

WRT

CONCRETE:

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE CODE PER GENERAL NOTES.
- 2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH TITLE 24 AND ASTM C94 AND ACI STANDARD 304. IN ADDITION, MAXIMUM FREE FALL OF CONCRETE SHALL BE 4' - 0".
- ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATORS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
- 4. THE MINIMUM 28 DAY STRENGTH SHALL BE PER MIX DESIGN SCHEDULE.
- CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.
- MINERAL ADMIXTURES SHALL COMPLY WITH ASTM C618.
- 8. LIQUID ADMIXTURES SHALL COMPLY WITH THE FOLLOWING:
- A. WATER REDUCERS. ASTM C494 TYPE A ASTM C494 TYPE A & F B. MID-RANGE WATER REDUCERS
- C. NON-CHLORIDE ACCELERATORS ASTM C494 TYPE C OR C & E D. RETARDING ADMIXTURES .. ASTM C494 TYPE B OR B & D
- GENERAL: A. NO PIPES OR DUCT SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY
- B. REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR ALL MOULDS,
- GROOVES, ORNAMENTS, CLIPS, ETC. TO BE CAST IN CONCRETE. 10. ALL CONSTRUCTION JOINTS SHALL BE MADE ROUGH IN ACCORDANCE WITH CODE SECTION 1906.4 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE LAITANCE, DUST, CHIPS, OR OTHER FOREIGN
- MATTER PRIOR TO PLACING THE ADJACENT CONCRETE. 11. REMOVE ALL DEBRIS AND EXCESS WATER FROM THE FORMS BEFORE PLACING ANY CONCRETE. 12. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE
- SECURELY POSITIONED AND FREE OF EXCESSIVE SCALE, RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCES THAT WILL IMPAIR BOND WITH CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES
- 13. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED. 14. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS FOR ELEVATOR PIT AND EQUIPMENT ROOM SLAB TO THE ARCHITECT OF RECORD FOR REVIEW PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1905A. CALCIUM CHLORIDE OR ADMIXTURES
- WHICH ADD CHLORIDES ARE NOT PERMITTED. 15. SEE REINFORCING STEEL NOTES FOR REINFORCING STEEL REQUIREMENTS.

PRIOR TO PLACING CONCRETE.

16. GROUT MIX SHALL BE AS PER MANUFACTURER'S SPECIFICATIONS (6000 PSI MIN).

	MIX DESIGN SCHEDULE									
TYPE	USE CLASS	STRENGTH " f'c " MIN @ 28 DAYS (PSI)	CONCRETE UNIT WEIGHT (PCF)	MAX AGGREGATE SIZE (IN)	MAX ⁽⁵⁾ SLUMP (IN)	MAX WATER TO CEMENT RATIO (%)	FLY ASH ⁽⁷⁾ REPLACEMENT (%)			
А	SLAB ON GRADE	3000	150	1"±1/4"	4"±1"	.40	15% MIN 25% MAX			
В	FOUNDATIONS	3000	150	1"±1/4"	4"±1"	.50	15% MIN 25% MAX			
С	WALLS	3000	150	1"±1/4"	4"±1"	.50	15% MIN 25% MAX			

- 1. ADD WATER REDUCING ADMIXTURES PER SPECIFICATIONS FOR PLACING.
- 2. FOR HOT WEATHER CONCRETING REFER TO ACI 305R.
- FOR COLD WEATHER CONCRETING REFER TO ACI 306R. 4. OTHER ADMIXTURES SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND TESTING LABORATORY
- UPON CONCRETE MIX DESIGN SUBMITTAL.
- SLUMPS SHALL NOT EXCEED 8"± 1-1/2" WHEN USING MID-RANGE WATER REDUCERS. 6. ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE ONCE THE TRUCK LEAVES THE BATCH
- 7. MIX DESIGN SHALL NOT BE PROPORTIONED WITHOUT FIELD EXPERIENCE OR TRIAL MIXTURES PER ACI 318 SECTION 5.4 WHEN USING MORE THAN 15% FLY ASH REPLACEMENT BY WEIGHT.

COLD-FORMED STEEL FRAMING

1. ALL 43 MIL AND 33 MIL STUDS SHALL BE 33,000 PSI MIN. YIELD STRESS STEEL OF STANDARD STRUCTURAL QUALITY. ALL OTHER MATERIAL SHALL BE 50,000 PSI MIN YIELD STRESS.

2. COLD-FORMED STEEL SECTIONS SHALL CONFORM WITH THE REOUIREMENTS OF ASTM A653 SS GRADE 33 OR

- 3. ALL MEMBERS SHALL BE CUT SOUARELY OR AS REQUIRED, FITTED AND SEATED PROPERLY TO ABUTTING MEMBERS. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED AT FLANGES OR WEBS OF TRACKS. 4. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS,
- ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED. 5. FASTENING OF COMPONENTS SHALL BE WITH TEK SCREWS OR EQUIVALENT SELF-DRILLING, SELF-TAPPING SCREWS OR WELDING. SCREWS OR WELD SIZES SHALL BE SHOWN ON THE DRAWINGS.
- 6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF
- 7. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION,
- ICC-ES EVALUATION REPORT ESR-3064P.
- 8. SEE ICC-ES EVALUATION REPORT ER-4943P FOR TYPICAL STEEL STUD INSTALLATION.
- FOR STUD SIZE AND LOCATION, SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 10. PUNCH-OUT WEB SECTIONS SHALL NOT BE WITHIN 12" OF THE END OF A COLD-FORMED STEEL MEMBER SUCH AS, BUT NOT LIMITED TO, STUDS OR JOISTS.
- 11. GAUGE DESIGNATIONS OF PLATES, STRAPS, TRACKS, STUDS AND ANGLES ARE MINIMUMS. THICKER GAUGE ELEMENTS MAY BE USED.
- 12. SHEET METAL SCREW (SMS) SIZES ARE MINIMUMS. LARGER SCREW SIZES MAY BE USED.

FOUNDATIONS: (BY GENERAL CONTRACTOR)

- FOUNDATION DESIGN IS BASED ON SOIL STRATA THAT IS UNDISTURBED, NON-ORGANIC NATIVE SOIL, CLASS 5 (CODE MINIMUM WITHOUT SOILS REPORT) AS PER CBC CHAPTER 18A AND TABLE 1804A.2, WITH A NET BEARING CAPACITY OF 1500 PSF AT 12" BELOW GRADE. FOUNDATIONS SHALL BEAR ON FIRM FOUNDATION SOIL STRATA AS APPROVED BY THE BUILDING OFFICIAL. EXPANSIVE, ORGANIC, LOOSE OR SOFT SOILS SHALL NOT BE UTILIZED FOR SUPPORT OF FOOTINGS OR SLABS ON GRADE. THE ENGINEER IS NOT RESPONSIBLE FOR SETTLEMENT DUE TO SOFT SOILS OR EFFECTS DUE TO EXPANSIVE SOILS. IT IS THE OWNER'S RESPONSIBILITY TO INSURE COMPLIANCE WITH THESE **REQUIREMENTS**
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SHORE AND BRACE AS REQUIRED. SEE SAFETY NOTES FOR ADDITIONAL INFORMATION.
- ALL FOUNDATIONS ARE SHOWN AND DIMENSIONED AS BEING FORMED. FOUNDATIONS MAY BE PLACED IN NEAT EXCAVATIONS PROVIDED FOOTINGS ARE INCREASED 2" IN WIDTH, SEE TYPICAL EXCAVATION DETAIL 11/S3.1
- EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS AND LOOSE SOIL. STANDING WATER SHALL BE
- REMOVED PRIOR TO CONCRETE PLACEMENT. BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL.
- CONTRACTOR SHALL CHECK FOOTING FORMS TO VERIFY THAT THEY SQUARE & PLUMB. THE CONTRACTOR SHALL ALSO VERIFY THAT ALL INSERTS & EMBEDS ARE IN THEIR CORRECT LOCATION & ORIENTATION PRIOR TO PLACING CONCRETE.
- FOR FOUNDATION CONDITIONS NOT SHOWN ON THESE PLANS, THE FOUNDATIONS MAY BE DESIGNED BY THE ENGINEER OF RECORD AND APPROVED BY DSA. ALLOWABLE BEARING AND SLIDING VALUES MAY BE USED FROM A SOILS REPORT IF PROVIDED, OR PER CBC CHAPTER 18A AND TABLE 1806A.2 IF NO SOILS REPORT IS PROVIDED.

REINFORCING STEEL

- REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60 UNO.
- NO REINFORCING BARS ARE TO BE WELDED UNLESS SPECIFICALLY DETAILED IN CONTRACT DOCUMENTS ALL BARS SO DETAILED TO BE WELDED SHALL BE ASTM A706 BARS.
- ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED TESTING LABORATORY. CONTRACTOR MUST FURNISH TO THE LABORATORY MILL CERTIFICATES SHOWING CHEMICAL ANALYSIS. ALL PREHEATING AND WELDING SHALL BE DONE BY WELDERS CERTIFIED TO WELD REINFORCING BARS IN ACCORDANCE WITH AWS D1.4-05 STANDARDS
- E80xx ELECTRODE SHALL BE USED FOR ALL REBAR WELDING.
- 5. TACK WELDING TO REBAR IS STRICTLY PROHIBITED.
- WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO SQUARES MIN EACH DIRECTION.
- REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 315 THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..
- B. CONCRETE EXPOSED TO EARTH OR WEATHER, BUT PLACED IN FORMS ... C. SLAB (ON GROUND) POSITION IN CENTER OF SLAB, UNO.
- REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
- 10. A. ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP UNLESS OTHERWISE NOTED. SEE REINFORCEMENT LAP SPLICES TABLE.
- B. DOWEL ALL VERTICAL REINFORCING IN WALLS AND COLUMNS FROM FOUNDATION WITH THE SAME

SIZE REINFORCING. UNO.

REINFORCEMENT

LAP SPLICE LENGTHS

(IN INCHES)

	f'c = 3000 PSI AT 28 DAYS									
SPLICE CLASS	REINFORCEMENT	REINFORCEMENT SIZE (GR60, UNO)								
	LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
А	TOP	21	28	36	43	62	71	80	89	98
	OTHER	16	22	27	33	48	55	62	68	75
В	TOP	28	37	46	56	81	93	104	116	131
	OTHER	21	28	36	43	62	71	80	91	101

- TABLE ABOVE BASED ON UNCOATED REINFORCING.
- TOP REINFORCING IS HORIZONTAL REINFORCEMENT THAT HAS MORE THAN TWELVE INCHES OF FRESH CONCRETE CAST BELOW IT.
- FOR BARS WITH COVER LESS THAN 1 BAR DIAMETER OR WITH CLEAR SPACING LESS THAN 2 BAR DIAMETERS, INCREASE LAP SPLICE BY 100%

STRUCTURAL STEEL:

- FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC "SPECIFICATION FOR STRUCTURAL
- STEEL BUILDINGS" AND 2016 CBC. STRUCTURAL STEEL SHAPES AND CONNECTORS SHALL CONFORM TO THE FOLLOWING:
- A. TUBE STEEL (UNO) ASTM A500, GRADE B (Fv = 46 KSI)
- B. PIPE COLUMNS .. ASTM A53, TYPES E OR S, GRADE B (Fy = 35 KSI) C. ANGLES, CHANNELS, <u>BARS</u> & MISCELLANEOUS SHAPES SHALL BE GRADE 50
- ASTM A529, A572 OR A1011, GRADE 50 D. PLATES ...
- E. MACHINE BOLTS .. ASTM A307
- F. HIGH STRENGTH BOLTS (HSB) ASTM A325-N (UNO) G. HARDENED STEEL WASHERS ASTM F436
- ASTM F1554 GRADE 105 UNO (HEAD OR LOCKNUT) H. ANCHOR BOLTS ... SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWING IS PROHIBITED WITHOUT PRIOR
- APPROVAL OF THE STRUCTURAL ENGINEER AND DSA. EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE MACHINE BOLTS.
- FOR ALL HIGH STRENGTH BOLTS, HARDENED WASHERS SHALL BE PROVIDED UNDER THE TURNING ELEMENT OF BOLT FOR TORQUING AS REQUIRED. HOLES FOR MACHINE BOLTS SHALL BE DRILLED AND OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
- COLUMN BASE PLATE ANCHOR BOLT HOLES MAY BE OVERSIZED IN ACCORDANCE WITH AISC 360 AND TABLE 14-2 OF THE 14TH EDITION OF THE STEEL CONSTRUCTION MANUAL, WITH HEAVY HEX NUTS OR PLATE WASHERS UNDER BASE PLATE.
- 8. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS OTHERWISE NOTED. 9. "SLIP CRITICAL" BOLTED CONNECTIONS:
- A. "SLIP CRITICAL" CONNECTIONS (A325SC DESIGN VALUES WITH SPECIAL INSPECTION) ARE REQUIRED WHERE INDICATED.
- B. THE SPECIAL INSPECTOR MUST BE PRESENT DURING THE ENTIRE INSTALLATION AND TIGHTENING OPERATION OF "SLIP CRITICAL" CONNECTIONS.
- 10. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ER705-6 WELDING WIRE MAY BE USED FOR NON-FULL PENETRATION WELDS, THE USE OF E70-T4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION. ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND STRUCTURAL WELDING CODE- STEEL OF THE AMERICAN WELDING SOCIETY (AWS D1.1: D1.8 LATEST REVISION). SEE SITE SPECIFIC DSA FORM 103 FOR WELDING INSPECTION REQUIREMENT. SUBMIT ALL WELDING PROCEDURES AND SPECIFICATIONS TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO
- 11. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360-10, SECTION J2.2b.
- 12. PROVIDE 3" MINIMUM CONCRETE COVERAGE ON ALL STEEL BELOW GRADE. 13. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE
- INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE 14. NON-SHRINK GROUT: A PREMIXED NON-METALLIC FORMULA WITH NO CHLORIDES HAVING THE FOLLOWING
- CHARACTERISTICS: A. FLOWABLE MIX AT TIME OF PLACEMENT
- B. NO SHRINKAGE AFTER PLACEMENT
- C. COMPRESSIBLE STRENGTH OF 5000 PSI (MINIMUM) AT 7 DAYS
- D. CONFORMS TO ASTM C1107 (GRADE C) 15. TEMPORARILY STABILIZE ELEVATOR HISTORY TO PREVENT LATERAL DISPLACEMENT BEFORE ADDING VERTICAL LOAD, PLACE NON-SHRINK GROUT (EMBCO 636, RAPIDEST CEMENTALL OF APPROVED EOUAL) UNDER ALL BASE PLATES AND ALLOW TO SET PER MANUFACTURER'S RECOMMENDATIONS BEFORE REMOVING LATERAL
- 16. THICKNESS DIMENSIONS OF HSS ARE MINIMUMS. THICKER HSS MEMBERS UP TO 1/2" MAX MAY BE USED.

GENERAL NOTES

- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALI BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER
- TYPICAL NOTES AND DETAILS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.
- DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR
- 4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2016 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. WITH LATEST REVISIONS AND REFERRED TO HERE AS "THE CODE", AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES
- AND SPECIFICATIONS. 5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS SHALL PREVAIL. STRUCTURAL ENGINEER SHALL BE NOTIFIED OF CONFLICTS AND THAT PORTION OF WORK SHOULD
- 6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE.
- THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.

NOT PROCEED UNTIL CONFLICT IS RESOLVED.

- 8. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND / OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- HEAVY EQUIPMENT, CRANES AND MATERIAL STOCKPILES SHALL NOT BE LOCATED ON OR ADJACENT TO
- 10. SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR A SUBSTITUTION TO BE REVIEWED THE CONTRACTOR SHALL AGREE & COMPLY WITH THE FOLLOWING: A. THE CONTRACTOR SHALL BE BILLED ON A TIME AND MATERIALS BASIS FOR THE REVIEW OF THE
- SUBSTITUTION WITH NO GUARANTEE OF APPROVAL VERIFY THAT THE SUBSTITUTION DOES NOT AFFECT DIMENSIONS SHOWN ON DRAWINGS. C. THE CONTRACTOR SHALL ALSO PAY FOR CHANGES TO DESIGN, WHICH INCLUDES BUT IS NOT LIMITED
- TO; ENGINEERING DESIGN, DETAILING, APPROVAL AGENCY PROCESS AND CONSTRUCTION COST CAUSEI BY THE REQUESTED SUBSTITUTION. D. THE PROPOSED SUBSTITUTION IS TO HAVE NO ADVERSE AFFECT ON OTHER TRADES, THE
- CONSTRUCTION SCHEDULE, OR THE SPECIFIED WARRANTY REQUIREMENTS. 11. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY approved by the structural engineer in advance or shown on these drawings. 12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF A CONFLICT, THE

STRUCTURAL ENGINEER AND ARCHITECT ARE TO BE NOTIFIED IMMEDIATELY. DRAWING SCALES GIVEN ARE

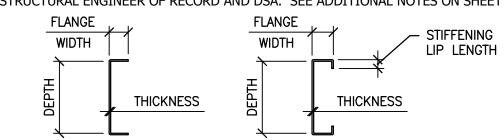
- APPROXIMATE DO NOT SCALE PLANS OR DETAILS SITE VISITS BY STRUCTURAL ENGINEER SHALL NOT BE IN LIEU OF INSPECTIONS.
- 14. SEE ARCHITECTURAL DRAWINGS FOR FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR OPENINGS.
- SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES AND
- DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. FLOOR AND ROOF FINISHES.
- DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 15. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING: • PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENING, ETC EXCEPT AS SHOWN OR
- ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALL OR SLABS.
- CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOTOR MOUNTS
- 16. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, C.C.R.
- 17. INSTALLATION MUST COMPLY WITH REQUIREMENTS OF CBC CHAPTER 30 INCLUDING, BUT NOT LIMITED TO
- 3002.3 EMERGENCY SIGNS
 - 3002.4.4A ELEVATOR RECALL • 3002.4.5-7A - SIGNAGE
- 3002.4 ELEVATOR TO ACCOMMODATE AMBULANCE STRETCHER
- 3002.5 -EMERGENCY DOORS
- 3003 -EMERGENCY OPERATIONS • 3006 -MACHINE ROOMS.

SAFETY NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF ALL OSHA
- REOUIREMENTS AS THEY APPLY TO THIS PROJECT. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- 3. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING FOR VERTICAL AND / OR LATERAL LOADS, SHORING AND LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER WILL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS

CLADDING:

THE DESIGNS OF THE STRUCTURAL SYSTEMS FOR THESE ELEVATORS BASED ON A MAXIMUM TOTAL WEIGHT FOR EXTERIOR CLADDING OF 400 LBS PER VERTICAL FOOT OF THE ENTIRE SHAFT FOR ALL MATERIALS EXTERIOR OF THE EXTERIOR SURFACE OF WALL STUDS AND CORNER COLUMNS, INCLUDES WEIGHT OF WALL STUDS, COLUMNS, HORIZONTAL BEAMS, 2- LAYERS OF 5/8" GYPSUM WALL BOARD INSIDE AND OUTSIDE AND EXTERIOR ARCHITECTURAL FINISH. IF ANY COMBINATION OF TOTAL EXTERIOR CLADDING WEIGHTS EXCEEDS 400 LBS PER VERTICAL FOOT BY MORE THAN 40 LBS PER VERTICAL FOOT OF THE SHAFT, THE STRUCTURAL DESIGN OF THE ELEVATOR SHAFT STRUCTURAL SYSTEM AND FOUNDATION MUST BE REVIEWED BY THE MEM STRUCTURAL ENGINEER OF RECORD AND DSA. SEE ADDITIONAL NOTES ON SHEET S4.



STRUCTURAL SECTION PROPERTIES

SSMA	CALICE	ГУ	FLANGE WIDTH	DESIGN THICKNESS	INSIDE	DEPTH	STIFFENING LIP LENGTH	GROSS	EFFE	CTIVE	INTENDED
ESIGNATION	GAUGE	(KSI)	(in)	(in)	(in)	(in)	(in)	A (in ²)	Sx (in ³)	lx (in ⁴)	USE
350S162-43	18	33	1 5/8"	0.0451	0.0712	3 1/2	0.5	0.334	0.357	0.654	STUDS
350S162-54	16	50	1 5/8"	0.0566	0.0849	3 1/2	0.5	0.415	0.426	0.804	STUDS
350S162-68	14	50	1 5/8"	0.0713	0.1069	3 1/2	0.5	0.515	0.549	0.985	STUDS
362S162-43	18	33	1 5/8"	0.0451	0.0712	3 5/8	0.5	0.340	0.372	0.710	STUDS
362S162-54	16	50	1 5/8"	0.0566	0.0849	3 5/8	0.5	0.415	0.426	0.804	STUDS
362S162-68	14	50	1 5/8"	0.0713	0.1069	3 5/8	0.5	0.422	0.576	0.873	STUDS
400S162-43	18	33	1 5/8"	0.0451	0.0712	4	0.5	0.357	0.417	0.892	STUDS
400S162-54	16	50	1 5/8"	0.0566	0.0849	4	0.5	0.443	0.498	1.098	STUDS
100S162-68	14	50	1 5/8"	0.0713	0.1069	4	0.5	0.550	0.648	1.346	STUDS

350T150-43 | 18 | 33 | 1 1/2" | 0.0451 | 0.0712 | 3 1/2 | N/A | 0.293 | 0.243 | 0.531 | TRACK OR JOIST ' 1 1/2" l 0.0849 3 1/2 0.367 | 0.332 | 0.712 | TRACK OR JOIST 350T150-54 16 50 0.0566 N/A 350T150-68 | 14 | 50 | 1 1/2" | 0.0713 | 0.1069 | 3 1/2 | 0.462 | 0.459 | 0.957 | TRACK OR JOIST N/A 362T150-43 | 18 | 33 | 1 1/2" | 0.0451 0.0712 3 5/8 N/A 0.298 | 0.255 | 0.574 | TRACK OR JOIST 1 1/2" 0.0566 362T150-54 | 16 | 50 0.0849 3 5/8 N/A 0.374 | 0.349 | 0.769 | TRACK OR JOIST N/A 0.471 | 0.449 | 0.993 | TRACK OR JOIST 1 1/2" 0.0451 400T150-43 18 33 0.0712 4 N/A 0.315 | 0.293 | 0.719 | TRACK OR JOIST

N/A

N/A

0.0849 4

0.396 | 0.399 | 0.960 | TRACK OR JOIST

0.498 | 0.513 | 1.237 | TRACK OR JOIST

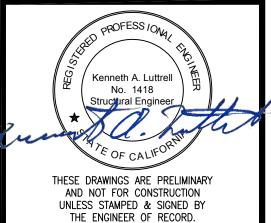
1 1/2" | 0.0566

400T150-68 | 14 | 50 | 1 1/2" | 0.0713 | 0.1069 | 4 |

400T150-54

NO. DATE REVISION

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PRE-CHECK (PC) DOCUMENTS 2016 CBC CODE A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

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10/19/2018 Engineered by: **Kal**

PROJECT NO: 16093

PROHIBITED.

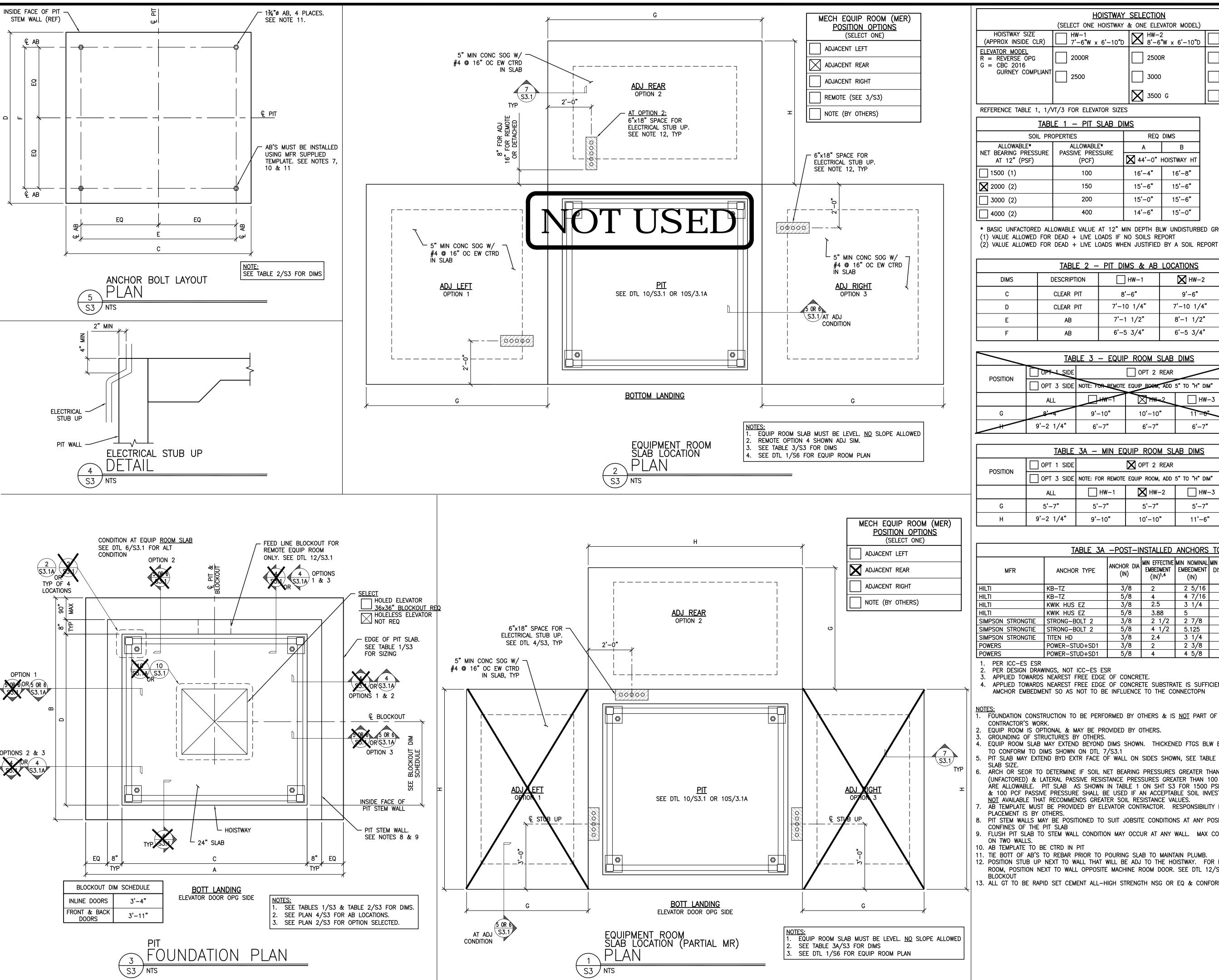
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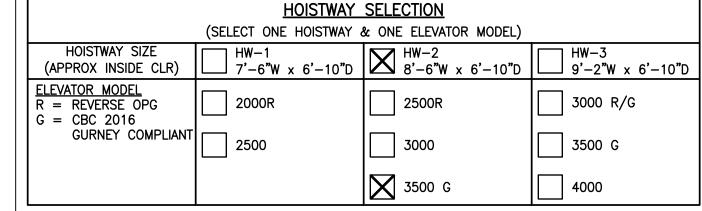
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED SHEET NAME:

GENERAL NOTES AND ABBREVIATIONS

SHEET NO:

S 0





REFERENCE TABLE 1, 1/VT/3 FOR ELEVATOR SIZES

TABLE 1 — PIT SLAB DIMS						
SOIL PRO	OPERTIES	REQ	DIMS			
ALLOWABLE*	ALLOWABLE*	Α	В			
AT 12" (PSF)	NET BEARING PRESSURE PASSIVE PRESSURE AT 12" (PSF) (PCF)		HOISTWAY HT			
<u> </u>	100	16'-4"	16'-8"			
2000 (2)	150	15'-6"	15'-6"			
3000 (2)	200	15'-0"	15'-6"			
4000 (2)	400	14'-6"	15'-0"			

* BASIC UNFACTORED ALLOWABLE VALUE AT 12" MIN DEPTH BLW UNDISTURBED GROUND SURFACE (1) VALUE ALLOWED FOR DEAD + LIVE LOADS IF NO SOILS REPORT

TABLE 2 — PIT DIMS & AB LOCATIONS							
DIMS	DESCRIPTION	☐ HW-1	₩ -2	☐ HW-3			
С	CLEAR PIT	8'-6"	9'-6"	10'-2"			
D	CLEAR PIT	7'-10 1/4"	7'-10 1/4"	7'-10 1/4"			
E	AB	7'-1 1/2"	8'-1 1/2"	8'-9 1/2"			
F	AB	6'-5 3/4"	6'-5 3/4"	6'-5 3/4"			

	TAB				
POSITION	OPT 1 SIDE		OPT 4 REMOTE		
	OPT 3 SIDE	NOTE: FOR REMOTE	TE OF THE REMOTE		
	ALL		2	☐ HW-3	ALL (MIN)
G	8'-4	9'-10"	10'-10"	11-6"	8'-4"
	9'-2 1/4"	6'-7"	6 ' -7"	6 ' -7"	7'-8"

TABLE 3A - MIN EQUIP ROOM SLAB DIMS								
POSITION	OPT 1 SIDE							
	OPT 3 SIDE	NOTE: FOR REMOTE						
	ALL	☐ HW-1	⋈ HW−2	☐ HW-3				
G	5'-7"	5'-7"	5'-7"	5 ' -7 "				
Н	9'-2 1/4"	9'-10"	10'-10"	11'-6"				

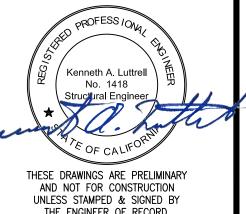
TABLE 3A -POST-INSTALLED ANCHORS TO CONC									
MFR	ANCHOR TYPE	ANCHOR DIA (IN)	MIN EFFECTIVE EMBEDMENT (IN) ^{1,4}	MIN NOMINAL EMBEDMENT (IN)	MIN EDGE/END DISTANCE (IN) ²	INSTALLATION TORQUE (FT-#) ¹	NOMINAL APPLIED SHEAR LOAD ³	ICC-ES ESR	
HILTI	KB-TZ	3/8	2	2 5/16	4	25	200	1917	
HILTI	KB-TZ	5/8	4	4 7/16	7	60	200	1917	
HILTI	KWIK HUS EZ	3/8	2.5	3 1/4	4	40	200	3027	
HILTI	KWIK HUS EZ	5/8	3.88	5	7	85	200	3027	
SIMPSON STRONGTIE	STRONG-BOLT 2	3/8	2 1/2	2 7/8	4	30	200	3037	
SIMPSON STRONGTIE	STRONG-BOLT 2	5/8	4 1/2	5.125	7	80	200	3037	
SIMPSON STRONGTIE	TITEN HD	3/8	2.4	3 1/4	4	50	200	2713	
POWERS	POWER-STUD+SD1	3/8	2	2 3/8	4	20	200	2818	
POWERS	POWER-STUD+SD1	5/8	4	4 5/8	7	80	200	2818	

- 1. PER ICC-ES ESR
- AMCHOR EMBEDMENT SO AS NOT TO BE INFLUENCE TO THE CONNECTOPN
- CONTRACTOR'S WORK.
- EQUIP ROOM IS OPTIONAL & MAY BE PROVIDED BY OTHERS.
- EQUIP ROOM SLAB MAY EXTEND BEYOND DIMS SHOWN. THICKENED FTGS BLW EQUIP ROOM WALLS
- TO CONFORM TO DIMS SHOWN ON DTL 7/S3.1
- ARE ALLOWABLE. PIT SLAB AS SHOWN IN TABLE 1 ON SHT S3 FOR 1500 PSF BEARING PRESSURE & 100 PCF PASSIVE PRESSURE SHALL BE USED IF AN ACCEPTABLE SOIL INVESTIGATION REPORT IS
- PLACEMENT IS BY OTHERS.

- 10. AB TEMPLATE TO BE CTRD IN PIT
- 13. ALL GT TO BE RAPID SET CEMENT ALL-HIGH STRENGTH NSG OR EQ & CONFORM TO ASTM-C-1107.

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TABLE 3A - MIN EQUIP ROOM SLAB DIMS								
POSITION	OPT 1 SIDE							
	OPT 3 SIDE	NOTE: FOR REMOTE						
	ALL	☐ HW-1	⋈ HW−2	☐ HW-3				
G	5'-7"	5'-7"	5'-7"	5 ' –7 "				
Н	9'-2 1/4"	9'-10"	10'-10"	11'-6"				

	TABLE 3A	-POST-II	NSTALLED	ANCHORS	TO CON	<u> </u>		
MFR	ANCHOR TYPE	ANCHOR DIA (IN)	MIN EFFECTIVE EMBEDMENT (IN) ^{1,4}	MIN NOMINAL EMBEDMENT (IN)	MIN EDGE/END DISTANCE (IN) ²	INSTALLATION TORQUE (FT-#) ¹	NOMINAL APPLIED SHEAR LOAD ³	ICC-ES ESR
HILTI	KB-TZ	3/8	2	2 5/16	4	25	200	1917
HILTI	KB-TZ	5/8	4	4 7/16	7	60	200	1917
HILTI	KWIK HUS EZ	3/8	2.5	3 1/4	4	40	200	3027
HILTI	KWIK HUS EZ	5/8	3.88	5	7	85	200	3027
SIMPSON STRONGTIE	STRONG-BOLT 2	3/8	2 1/2	2 7/8	4	30	200	3037
SIMPSON STRONGTIE	STRONG-BOLT 2	5/8	4 1/2	5.125	7	80	200	3037
SIMPSON STRONGTIE	TITEN HD	3/8	2.4	3 1/4	4	50	200	2713
POWERS	POWER-STUD+SD1	3/8	2	2 3/8	4	20	200	2818
DOWEDC	DOWED CTUD COA	F /0	1 4	4 5 /0	_		000	0040

2. PER DESIGN DRAWINGS, NOT ICC-ES ESR

3. APPLIED TOWARDS NEAREST FREE EDGE OF CONCRETE. 4. APPLIED TOWARDS NEAREST FREE EDGE OF CONCRETE SUBSTRATE IS SUFFICIENTLY THICK W/ RESPECT TO THE

NOTES:

1. FOUNDATION CONSTRUCTION TO BE PERFORMED BY OTHERS & IS NOT PART OF THE ELEVATOR

GROUNDING OF STRUCTURES BY OTHERS.

5. PIT SLAB MAY EXTEND BYD EXTR FACE OF WALL ON SIDES SHOWN, SEE TABLE 1 ON SHT S3 FOR

ARCH OR SEOR TO DETERMINE IF SOIL NET BEARING PRESSURES GREATER THAN 1500 PSF (UNFACTORED) & LATERAL PASSIVE RESISTANCE PRESSURES GREATER THAN 100 PCF (UNFACTORED)

NOT AVAILABLE THAT RECOMMENDS GREATER SOIL RESISTANCE VALUES. AB TEMPLATE MUST BE PROVIDED BY ELEVATOR CONTRACTOR. RESPONSIBILITY FOR PROPER AB

8. PIT STEM WALLS MAY BE POSITIONED TO SUIT JOBSITE CONDITIONS AT ANY POSITION WITHIN THE CONFINES OF THE PIT SLAB 9. FLUSH PIT SLAB TO STEM WALL CONDITION MAY OCCUR AT ANY WALL. MAX CONDITION MAY OCCUR

ON TWO WALLS. 11. TIE BOTT OF AB'S TO REBAR PRIOR TO POURING SLAB TO MAINTAIN PLUMB.

12. POSITION STUB UP NEXT TO WALL THAT WILL BE ADJ TO THE HOISTWAY. FOR REMOTE MACHINE ROOM, POSITION NEXT TO WALL OPPOSITE MACHINE ROOM DOOR. SEE DTL 12/S3.1 FOR FEEDLINE

MODUL

> PRE-CHECK (PC) DOCUMENTS 2016 CBC CODE SEPARATE PROJECT APPLICATION FOR

P.O. |SWO| |800-

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PROHIBITED. PROJECT NO: 16093 10/19/2018

ENGINEERED BY: KAL DRAWN BY: MTC

FILE NO. PC-MEM IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 03-118291

AC<u>MF</u> FLS<u>EB</u> SS<u>MC/</u> PRE-CHECK (PC) DOCUMENT CODE: 2016

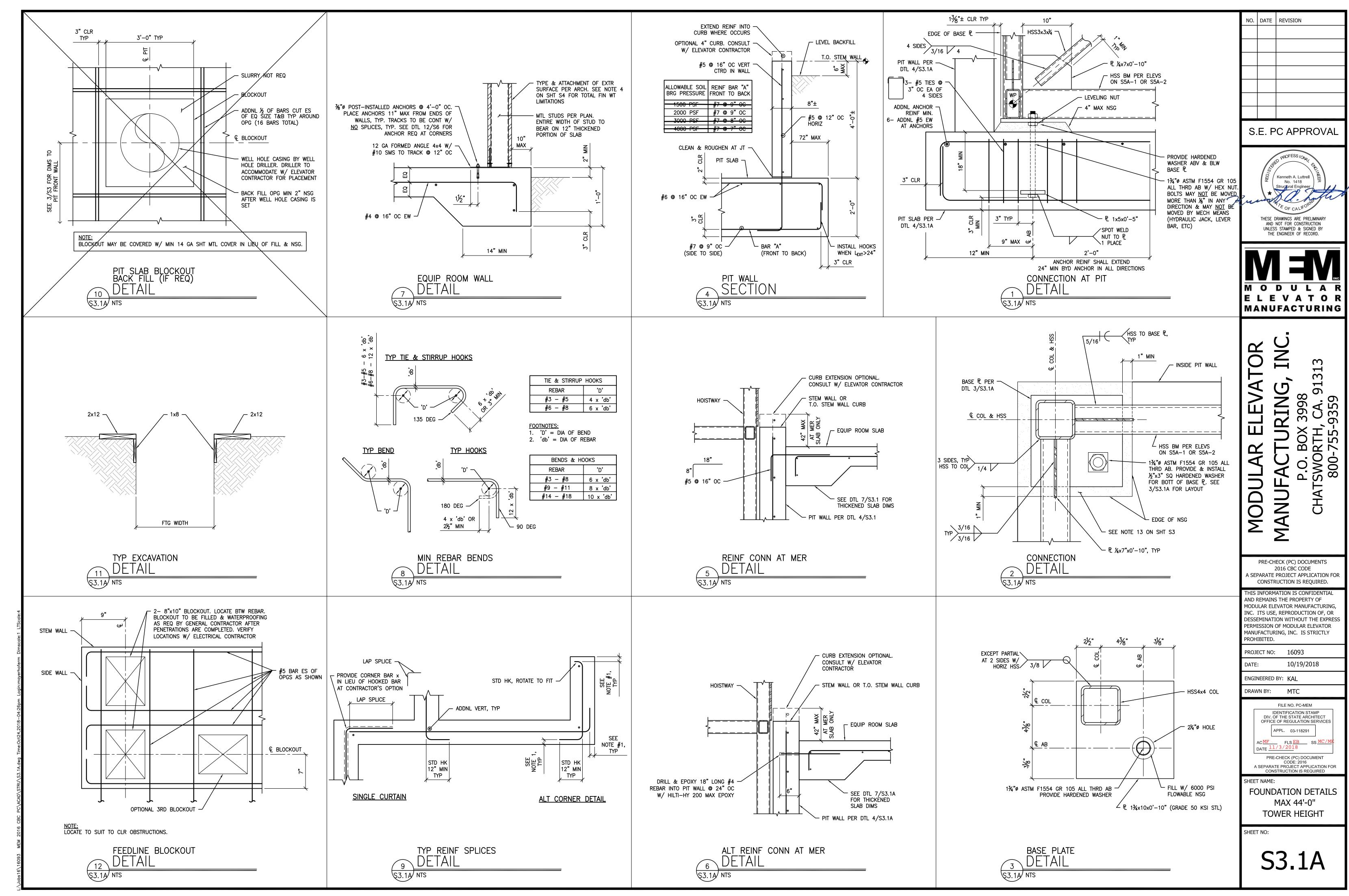
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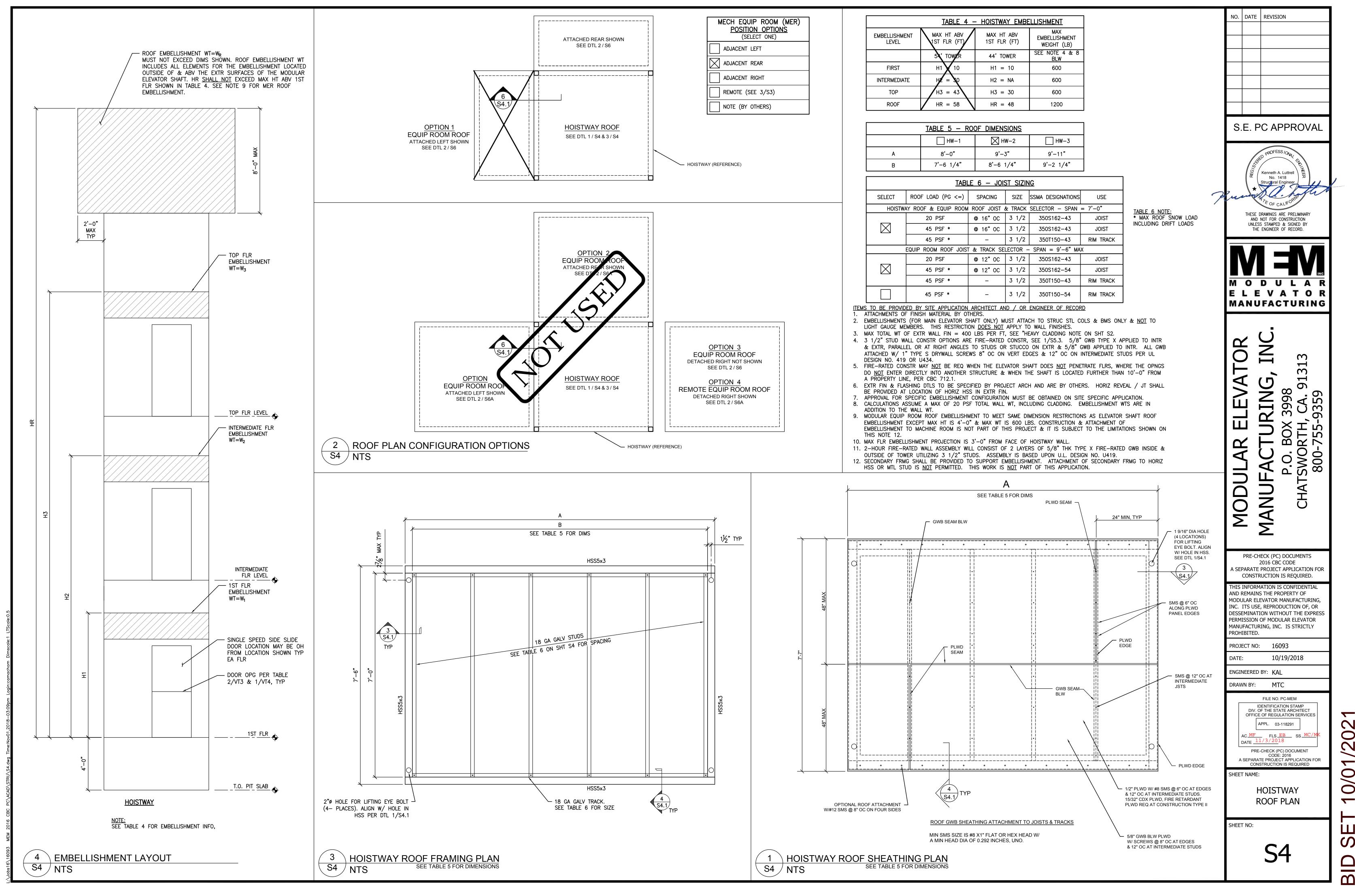
> **FOUNDATION PIT** PLAN

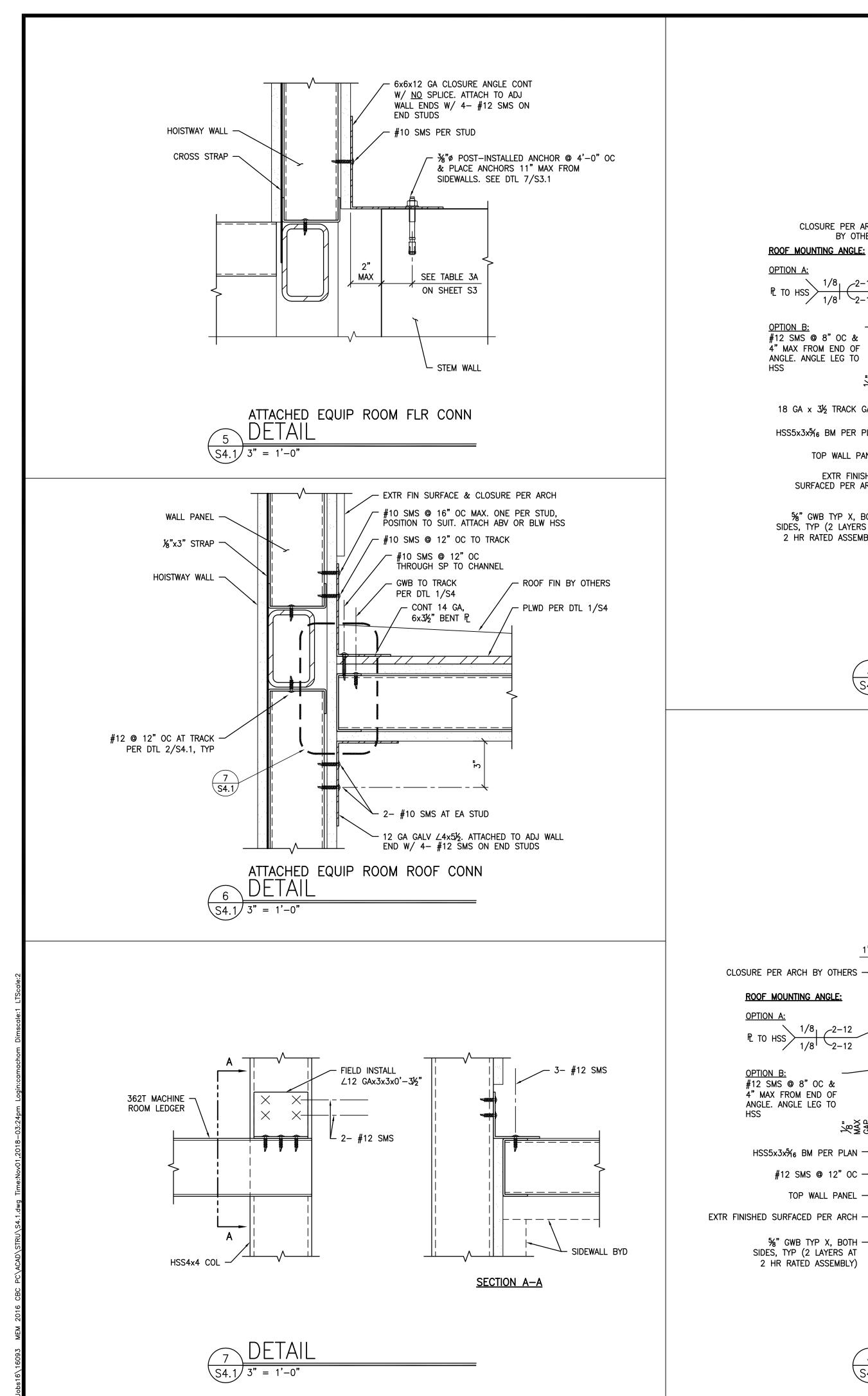
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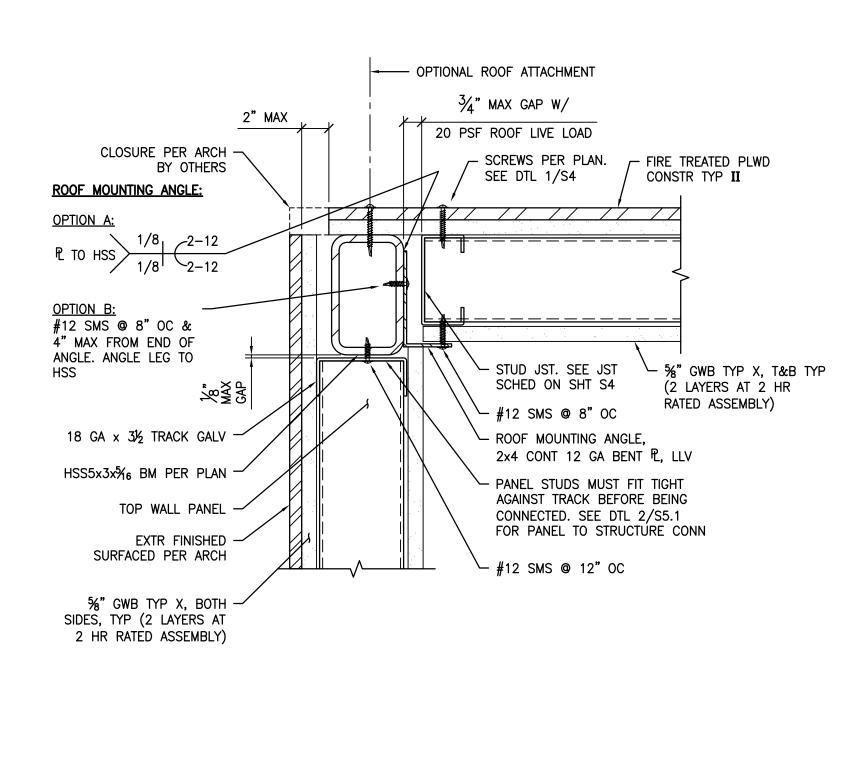
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9









HOISTWAY ROOF AT SIDE WALL

--- OPTIONAL ROOF ATTACHMENT

1" MAX

ROOF MOUNTING ANGLE:

OPTION B: #12 SMS @ 8" OC &

4" MAX FROM END OF

ANGLE. ANGLE LEG TO

HSS5x3x5/16 BM PER PLAN

#12 SMS @ 12" OC —

TOP WALL PANEL

5%" GWB TYP X, BOTH -

SIDES, TYP (2 LAYERS AT

2 HR RATED ASSEMBLY)

 $\frac{1/8}{1/8} \frac{2-12}{2-12}$

MAX GAP

S4.1 / 3" = 1'-0"

OPTION A:

PL TO HSS

 $\frac{3}{4}$ " MAX GAP W/

20 PSF ROOF LIVE LOAD

SCREWS PER PLAN.

362T150-43 OR

RIM TRACK

HOISTWAY ROOF AT END WALL DETAIL

400T150-43 CONT

- #12 SMS @ 8" OC

└ 2x4 CONT 12 GA BENT PL

- PANEL STUDS MUST FIT TIGHT AGAINST TRACK

BEFORE BEING CONNECTED. SEE DTL 2/S5.1 FOR PANEL TO STRUCTURE CONN

| NOTE: | MIN CLASS B ROOFING MATERIAL REQ.

SEE DTL 1/S4

- FIRE TREATED PLWD

ON SHT S4

- ROOF JST. SEE TABLE 6

#8 SMS MIN TO EA JST

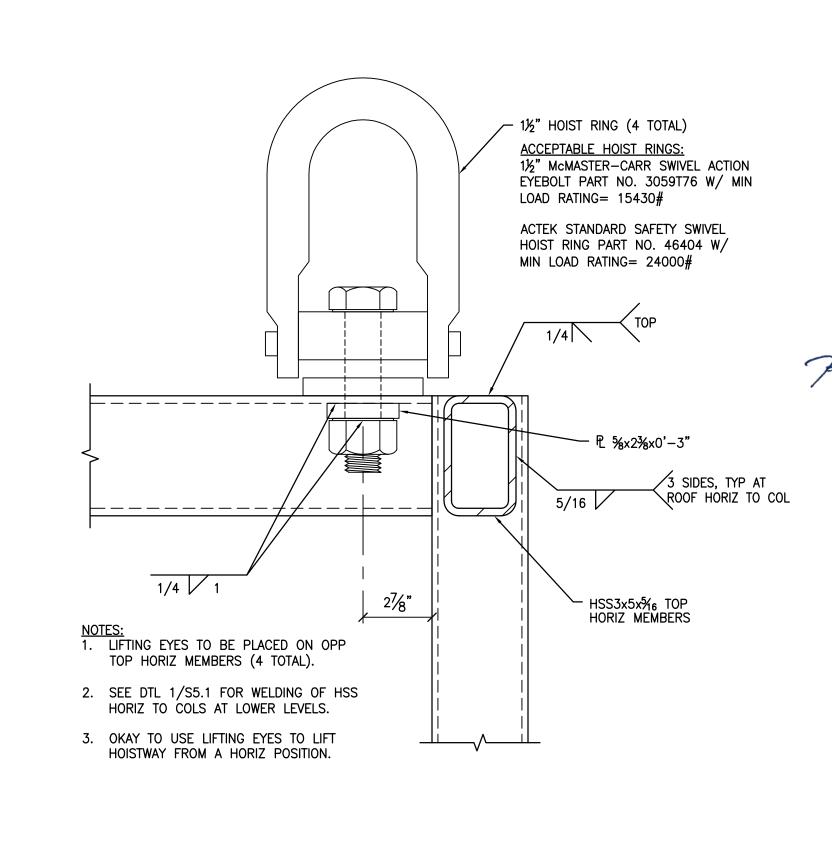
T&B, 1" LONG MIN, TYP

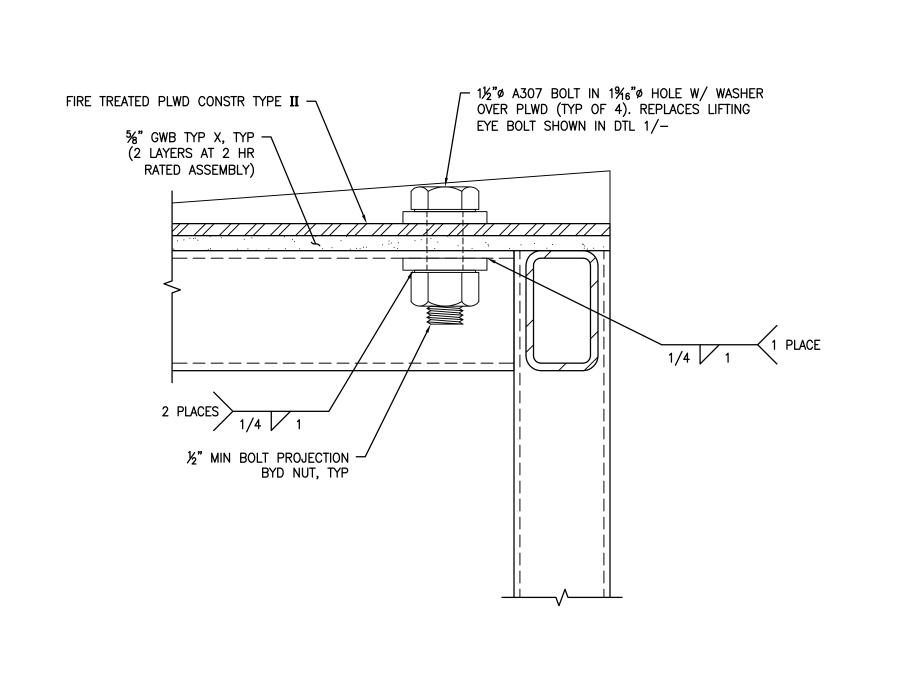
· %" GWB TYP X, T&B TYP

(2 LAYERS AT 2 HR

RATED ASSEMBLY)

CONSTR TYPE II



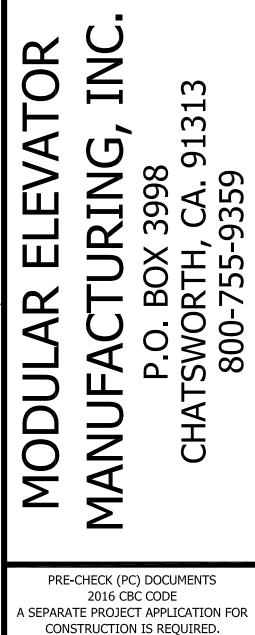


HOISTWAY ROOF BOLTING DETAIL

 $\sqrt{S4.1/3" = 1'-0"}$

HOISTWAY LIFTING EYE DETAIL

 $\sqrt{54.1/3" = 1'-0"}$



NO. DATE REVISION

S.E. PC APPROVAL

Kenneth A. Luttrell

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SHEET NAME: **HOISTWAY &**

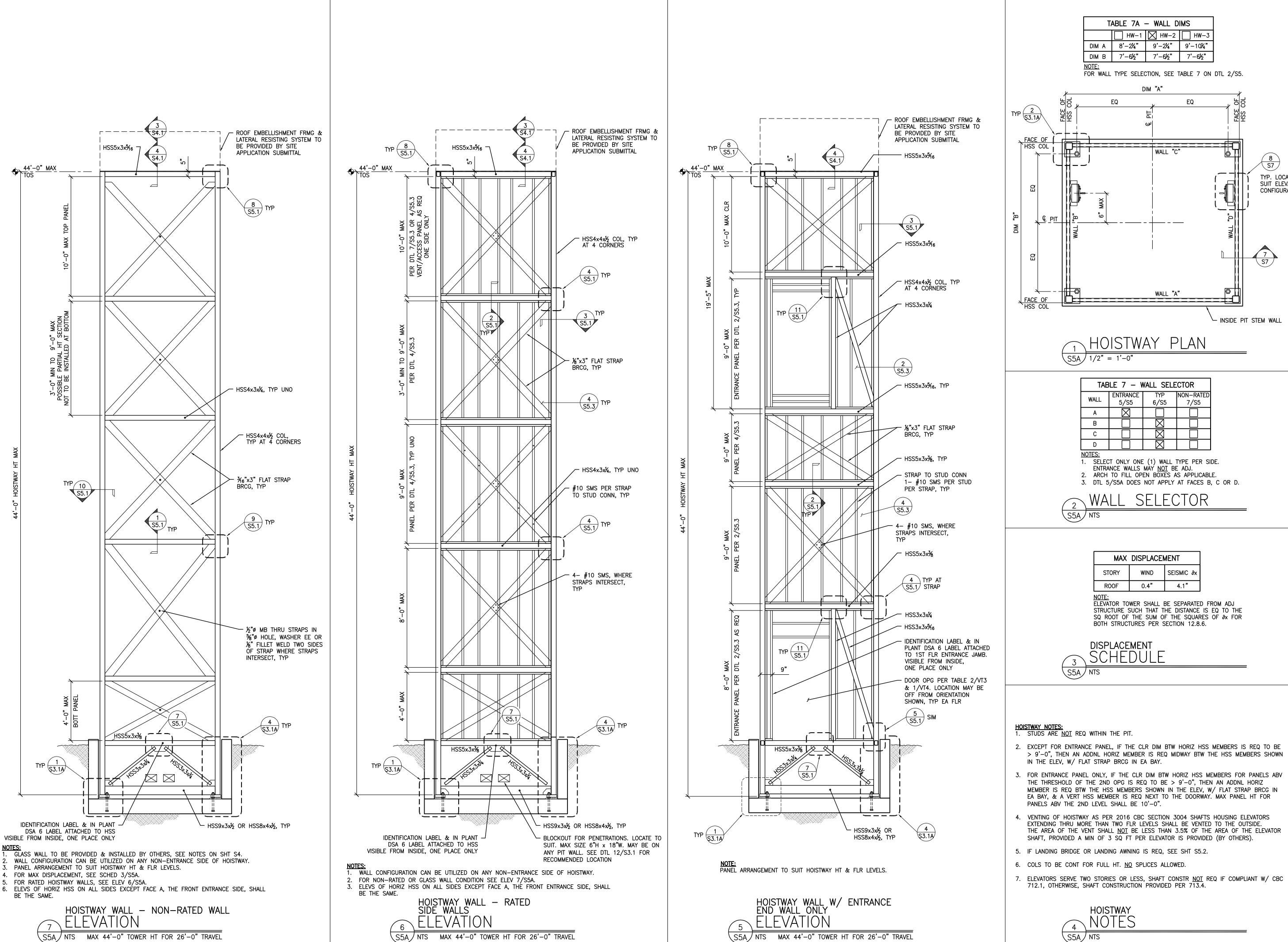
ROOF DETAILS

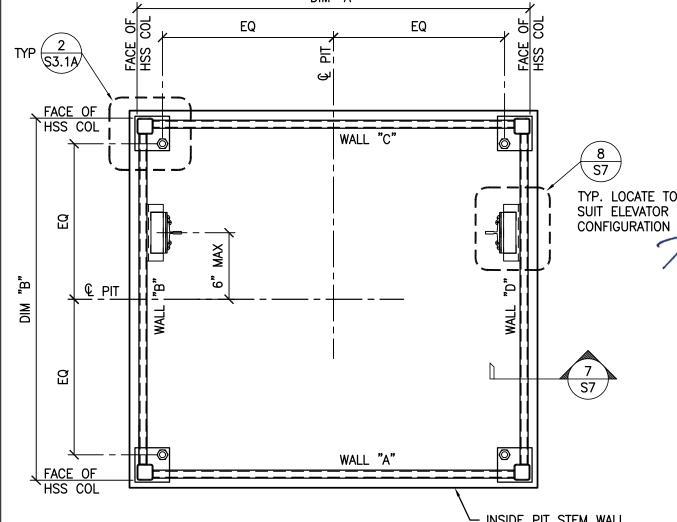
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S4.1

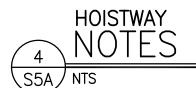
2 9 0

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- > 9'-0", THEN AN ADDNL HORIZ MEMBER IS REQ MIDWAY BTW THE HSS MEMBERS SHOWN
- MEMBER IS REQ BTW THE HSS MEMBERS SHOWN IN THE ELEV, W/ FLAT STRAP BRCG IN



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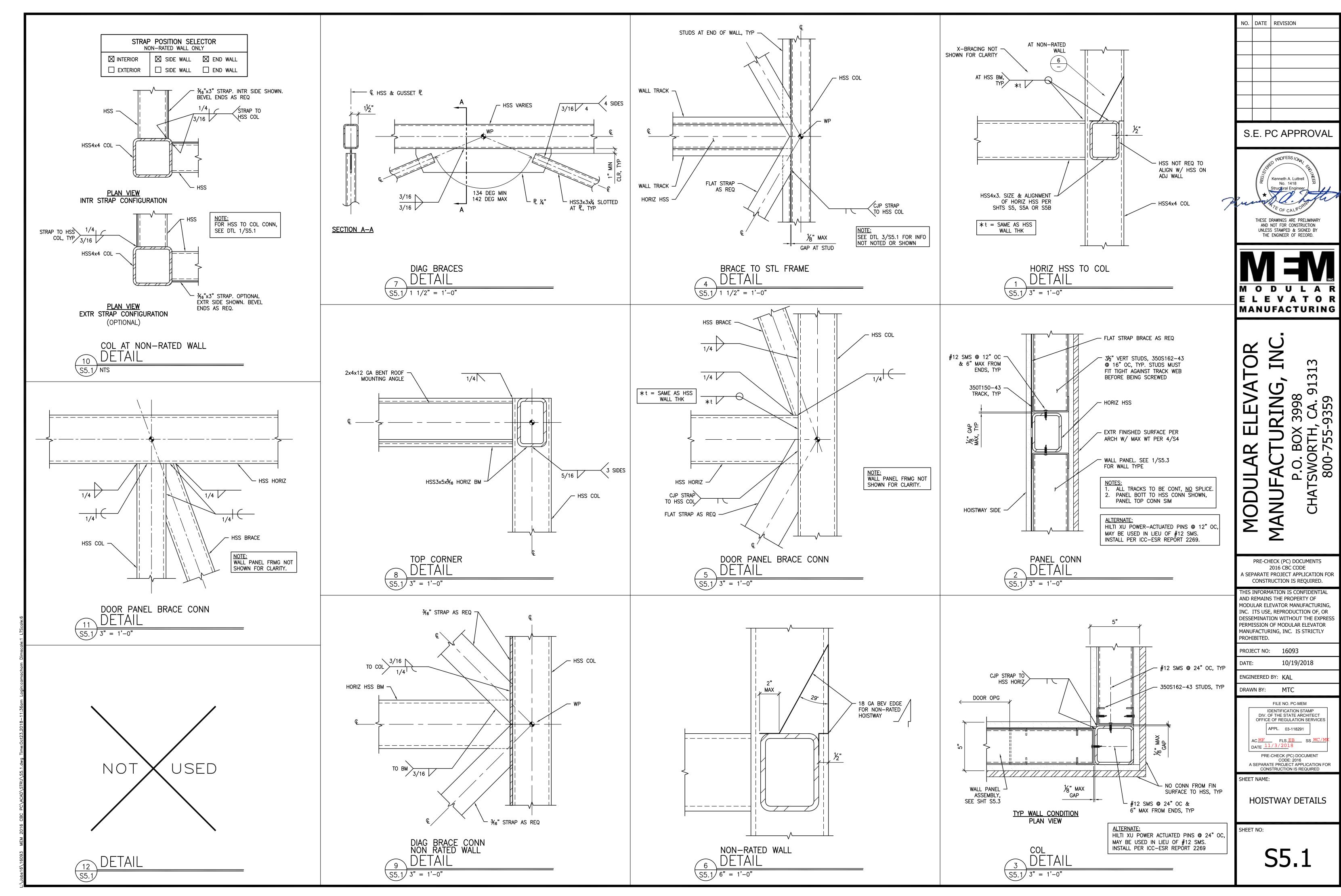
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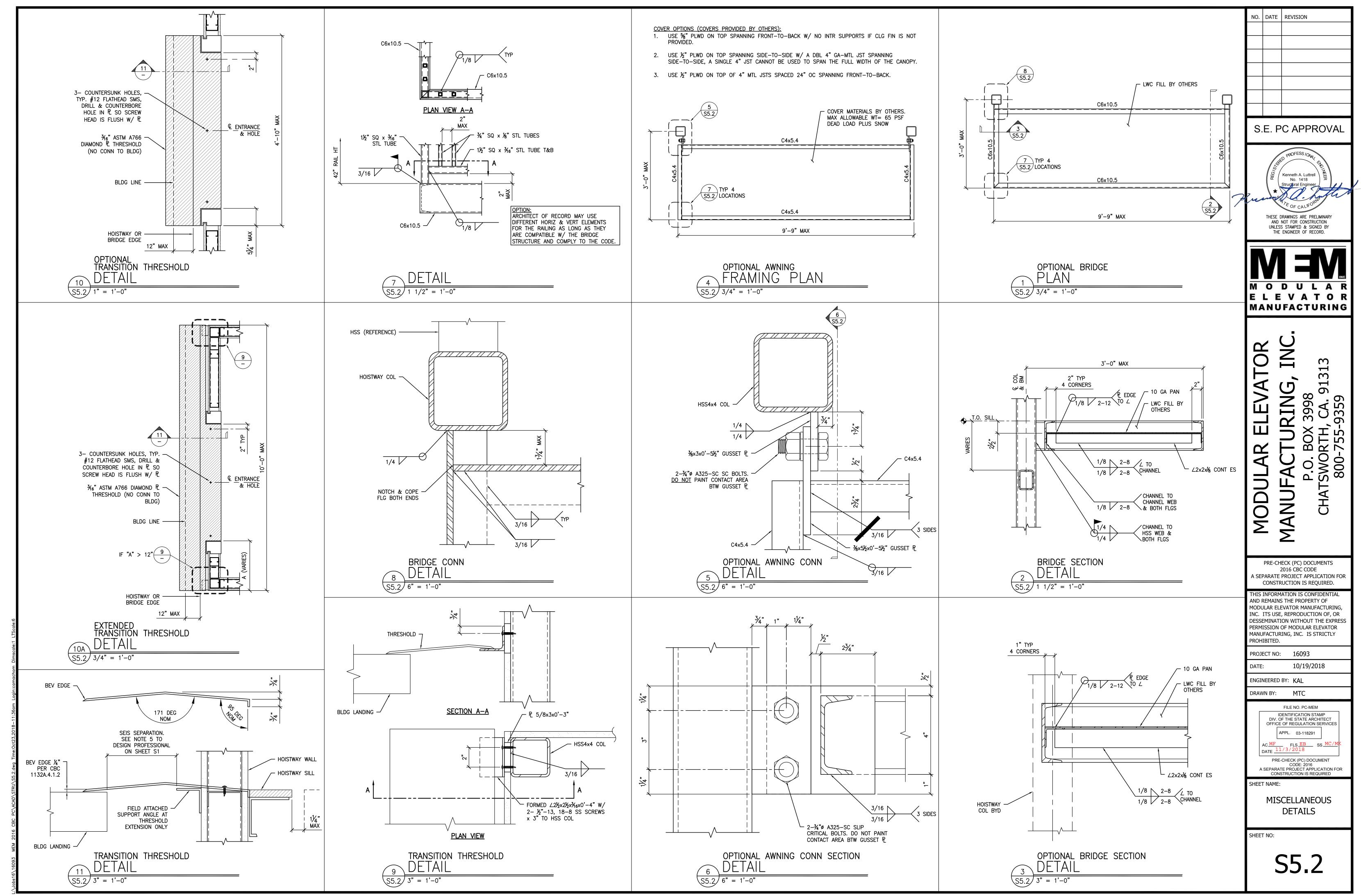
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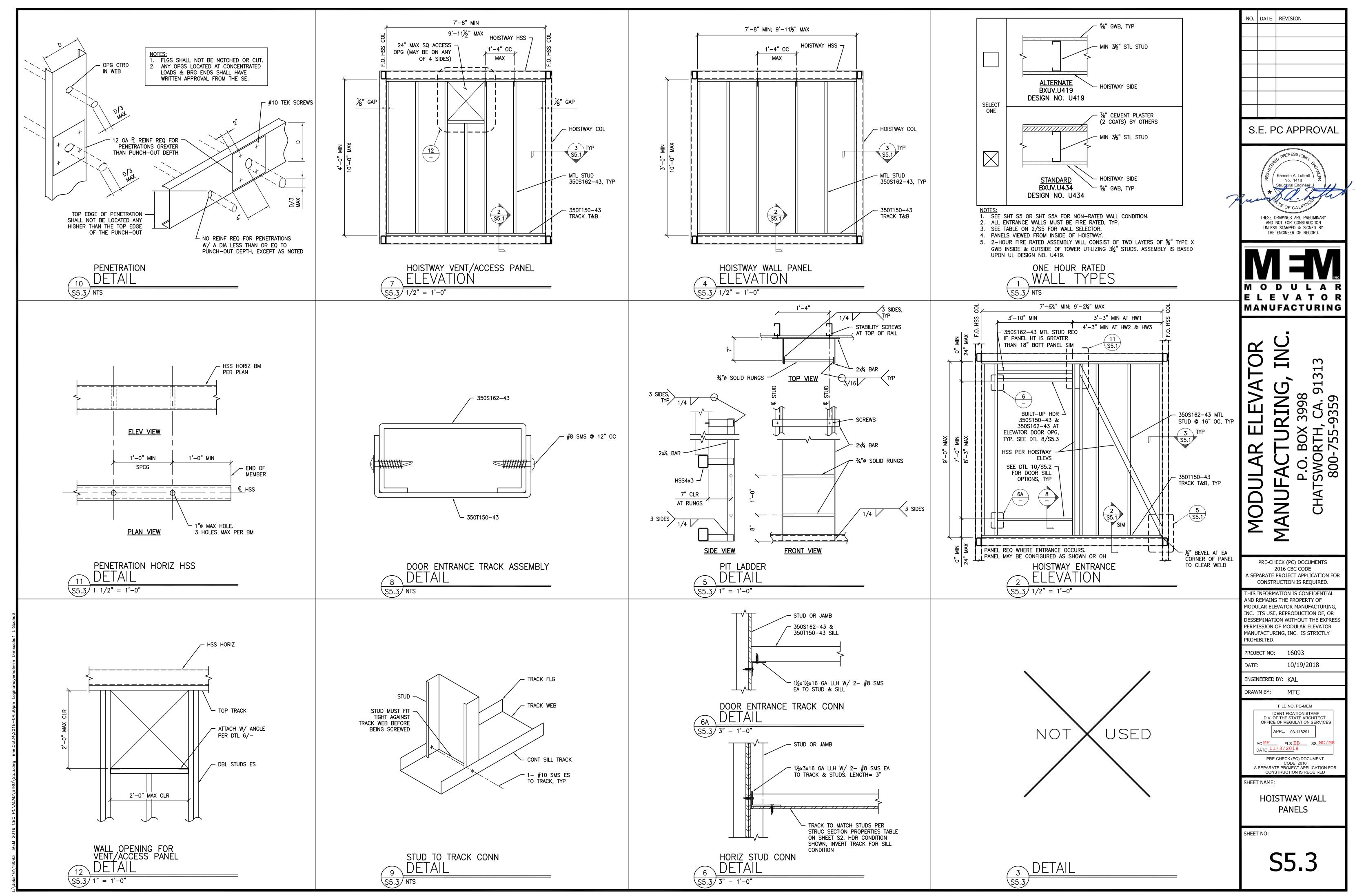
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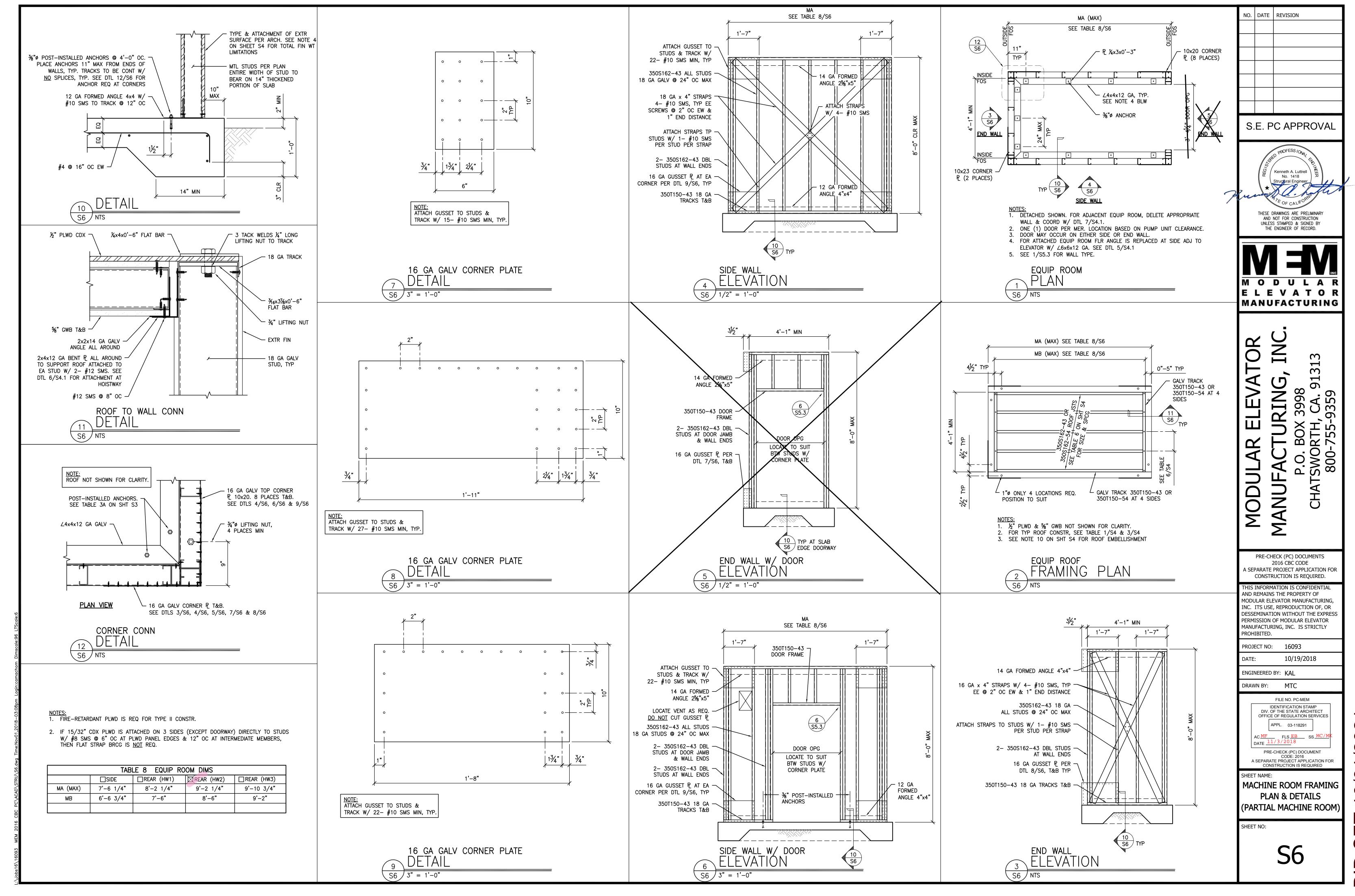
HOISTWAY PLAN & SECTIONS MAX 44'-0" TOWER HT

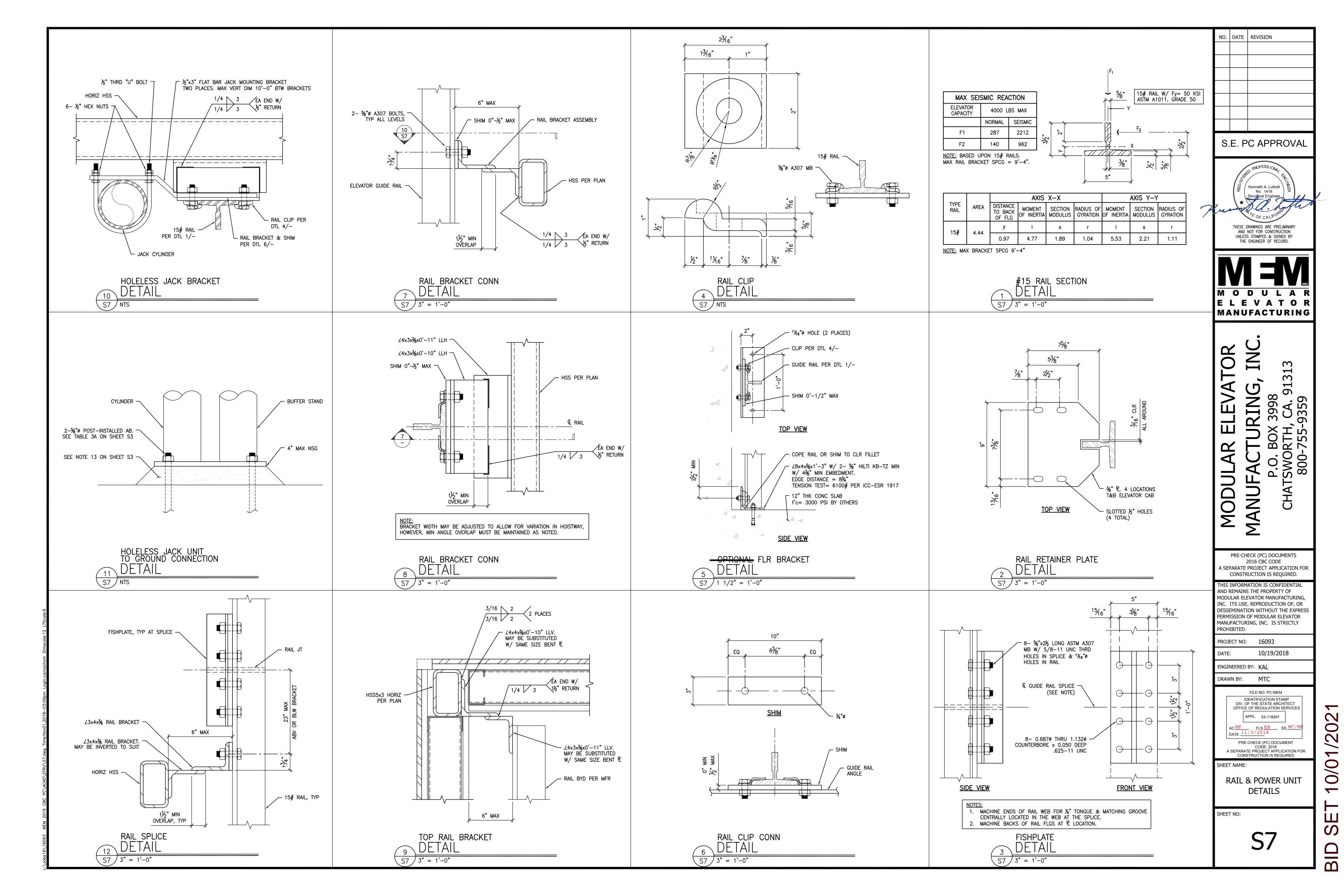
SHEET NO:











THE FOLLOWING REQUIREMENTS ARE TO BE PROVIDED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED:

- Setting of anchor bolts and sleeves, plumb and level GC MUST utilize the setting template provided by Elevator Contractor. GC must insure that anchor bolts and sleeves are properly secured to avoid movement during concrete pour, are clean of all debris prior to setting of the hoistway, and are positioned as per plans and verified.
- Any concrete coring, if required, of the pit walls for feedline and electrical conduit penetrations. Coring to be performed AFTER hoistway is set in place. All water proofing.
- Any grouting of the sills or hoistway frames, if required.
- Machine room slab and foundation as required.
- All Electrical service to the elevator machine room. All electrical must comply with the current version of the California Electric Code (CEC) and / or the National Electric Code (NEC) as they apply for new elevator installations. GC shall provide the following:
 - Electrical service to the machine room and connection to the disconnect must be stubbed out in the proper location within machine room.
 - All electrical wiring, including low voltage wiring, within the machine room must be EMT or rigid conduit.
 - Electrical service to elevator motor as indicated on the elevator drawings. (See elevator layout drawings).
 - 110 V 20 amp dedicated service for elevator car
 - 110 V 20 amp dedicated service for the hoistway.
 - 110 V 20 amp dedicated service for machine room circuit
 - Dedicated telephone line to the machine room terminated at a jack, and live. (Ring down features are not acceptable.) GC is responsible for submitting the telephone number to be programmed into elevator telephone system, and the actual telephone number of the dedicated telephone line for the elevator.
 - Smoke detector in machine room with one set of normally closed dry contacts for the elevator.
 - Fire signaling device at each landing with one set of normally closed dry contacts (egress floor must be "closed" contacts) for the elevator, wired back to the machine room and must be operational.
 - Grounding of the hoistway and equipment room structures including grounding and lightening rods.
- The machine room cannot be used for the storage of ANY items.
- All trenching from machine room to pit. Trench must be 18" 24" wide. Trenching is required for ALL remote machine room applications. All trenching must be done prior to the pouring of the machine room slab, piping will be run in trench from machine room location to outside of the pit wall and terminated until elevator is set. If elevator can be set prior to machine room pad being poured then full run can be completed in trench from hoistway to the machine room.
- Underground secondary pipe containment (double wall pipe) drainage point to be provided at point convenient to piping system and with services at that drainage point for leak detection devices. (If required.)
- Leak detection signaling device to be located within 10' of actual detection device. (If required.)
- 10. All back filling. Back filling must be coordinated with the elevator contractor after all feedlines and conduits have been installed and tested.
- 11. Access to the hoistway for other trades is not included. Stand-by time shall be considered an additional cost and billed at elevator rates.
- 12. Electrical, plumbing or mechanical equipment may not be placed or run in the hoistway or machine room unless approved by Elevator Contractor.
- 13. All inspections and fees for any government mandated factory inspections. Arrangements must be made prior to production commencement
- 14. GC shall be responsible for insuring that at time of delivery the site will be ready for setting of the elevator
 - All forms are removed from the pit
 - Pit dry.
 - Anchor bolts are clean and sleeves clear of debris.
 - Crane access available.
- 15. GC to insure that pit is kept in a dry condition and structure is protected from inclement weather. Damaged materials and / or extra labor resulting from water shall be an extra cost to the elevator
- 16. Execution of crane company's waiver of liability forms.
- 17. GC shall be responsible for any damage resulting from driving crane onto site, being set onto the site and during the placement of the elevator hoistway. This includes, but not limited to damage to: Trees, any conrete, curbs, driveways, walkways, lawns, asphalt, gates, fences and underground utilities.
- 18. GC is responsible for appropriate site access for crane set and equipment delivery. A minimum 70-foot working radius is required for the crane. This includes but is not limited to:
 - Traffic control
 - Special provisions related to power lines, trees, occupied buildings, FAA permits, etc.
 - Any and all fencing removal and replacement for crane and truck access.
 - All removal must be done prior to arrival of crane on site.
 - Any and all vegetation removal or trimming for crane and truck access to elevator final destination.
 - Protection to all concrete, asphalt, curbs, walkways, building and underground structures, landscaping affected by crane and truck access and set.
- 19. Unless otherwise noted: Crane set of elevator is based elevator set taking place mid-week mornings between 7:00 AM and 11:00 AM with 70-ton crane.
- 20. Structural attachment of hoistway to existing structure. (if required)
- 21. Removal of any obstructions necessary to install the equipment.
- 22. Site gurney compliance via stairs or other means, if required.
- 23. Installation of any building expansion joints, if required.
- 24. For holed elevators only, the cost for drilling the wellhole is based upon four (4) hours of drilling; utilizing a standard truck mounted drilling rig and drilling through normal soil conditions. GC is responsible to provide free, unobstructed access to the site for our truck mounted drill rig. Free access means adequate and unrestricted access to the pit as required for the move-in of equipment for the purpose of drilling the cylinder well. Should driller encounter any obstruction, including but not limited to rock, boulder, water, quicksand or any other unusual soil condition or should driller be required to utilize any special tools, an additional cost will be added to the Contract. Any costs beyond drillers standard drilling shall be considered as a result of conditions beyond the reasonable control of Elevator Contractor. & those additional costs will be charged back to the GC. All drilling spoils are to be removed.
- 25. Cab flooring and appropriate sub-flooring.
- 26. Vent in machine room. Machine room temperature shall not be lower than 40 degrees Fahrenheit or exceed 104 degrees Fahrenheit or exceed manufacturer's recommendations.
- 27. Venting of hoistway (only applicable for elevators with more than two stops).
- 28. Sprinklers, or heat sensors in the machine room and / or hoistway (if required). If sprinklers are provided, the shunt trip devices must also be provided.
- 29. Flashing between structures at locations including, but not limited to, the: pit, slab, modular equipment room roof and hoistway. These locations must be detailed and provided for water tightness.
- 30. "ABC" type fire extinguisher in machine room.
- 31. Exterior finish of the hoistway and machine room.
- 32. Exterior and interior painting or finishing.
- 33. Parapets, downspouts, scuppers, embellishments as well as any other modifications beyond details shown on manufacture's shop drawings .
- 34. Finished roofing.
- 35. Verification of correctness of placement of elevator pit is by others. Elevator company is to install elevator in pit provided by others.

MAXIMUM SEISMIC REACTION		
ELEVATOR CAPACITY	4000 LBS. MAX	
	NORMAL	SEISMIC
F1	287	2212
F2	140	962
BASED UPON 15# RAILS GR 50.		

MAX FORCES ON PIT FLOOR

LOCATION	FORCE IN LBS.
AT JACK (BOTH)	13,740
AT EA. BUFFER	14,740

$F2$ \checkmark $F1$

MAXIMUM SEISMIC REACTION		
ELEVATOR CAPACITY	4000 LBS. MAX	
	NORMAL	SEISMIC
F1	287	2212
F2	140	962
BASED UPON 15# RAILS GR 50.		
MAX RAIL BRACKET SPACING = 9'-4"		

LOCATION	FORCE IN LBS.
AT JACK (BOTH)	13,740
AT EA. BUFFER	14,740

BUFFERS ARE LOC	ΔTED
APPROX. 12" FROM &	
UNIT IN A LINE PARAI	LLEL TO
WIDTH OF HATO	CH

	MAXIMUM ALLOWAB		
	SPECIFICATION & DATA		
	MODEL	ALL	
	CAPACITY (LBS)	4000	
	HOISTWAY MODEL	ALL	
	TYPE	PASSENGE	
	OPERATION	SIMPLEX COLL	
	LOADING	CLASS A	
F 0	POWER SUPPLY	208 - 480 VOLTS / 3	

CAR DOOR

PISTON WEIGHT (MAXIMUM)

	TIOIOTWATIWODEL	ALL
	TYPE	PASSENGER
	OPERATION	SIMPLEX COLLECTIVE
	LOADING	CLASS A
	POWER SUPPLY	208 - 480 VOLTS / 3 PH / 60 I
	MOTOR STARTER	VARIES
	CONTROL TYPE	MICROPROCESSOR
	DOOR OPERATOR	GAL MOVFR II
	SPEED (FPM)	100 - 150 FPM
	LANDINGS	2 TO 7
	OPENINGS	4 FRONT / 3 REAR
	TRAVEL	37'-9" MAX
	CROSSHEAD	C5 X 9#
	STILE	C8 X 11.5#
	PLANK	C6 X 10.5#
	GUIDE RAILS	15# (Fy= 50 KSI)
	PLATFORM SIZE (INCHES)	92" X 72"
	PLATFORM THICKNESS	3.25 INCHES
	FINISHED FLOOR THICKNESS	0.25 INCHES
	GUIDE SHOES	SLIDING SWIVEL
	BUFFERS (QTY)	SPRING (2)
	RATING:	10655 LBS EACH
	STROKE:	2.5 INCHES
	WEIGHTS	
	HOISTWAY DOOR	275

MAXIMUM ALLOWABLE

275

1200

PISTON WEIGHT (MAXIMUM)	1200
CAR WEIGHT	4000
GROSS WEIGHT (MAXIMUM)	9000
PRESSURE & FLOW	
STATIC PRESSURE (PSI)	235
WORKING PRESSURE : (PSI)	500
G.P.M.	124
PUMP UNIT	
MOTOR HP	50
MOTOR RPM	3400
FULL LOAD AMPS	150
STARTING AMPS	307
PUMP	TO SUIT
PUMP RPM	1800
VALVE	TO SUIT
VALVE VOLTAGE	120 VOLTS
FEED PIPE SIZE	SIZE TO SUIT. SCHED. 80
HYDRAULIC JACKS	
TYPE	ALL TYPES
PLUNGER O.D	6.5"
PLUNGER LENGTH	40'-0"
CYLINDER O.D.	8.63"
CYLINDER WALL THICKNESS	0.801"
CYLINDER LENGTH	40'-0"
TOP OVERTRAVEL	24"
BOTTOM OVERTRAVEL	11"
MACHINE ROOM	
POSITION	ATTACHED OR REMOTE
HOISTWAY ENTRANCE	
TYPE	SINGLE SLIDE OR 2 SPEED
SIZE	4'0" X 8'-0"
DOOR WEIGHT	275
CAB	NAST AL
STYLE	METAL
HEIGHT	10'-0"
CAR DOOR OPERATION	SINGLE SLIDE OR 2 SPEED
CIONALC	
SIGNALS	DED CODE OF 70/T4
HALL	PER CODE. SEE 7/VT4
CAR	PER CODE. SEE 8/VT4

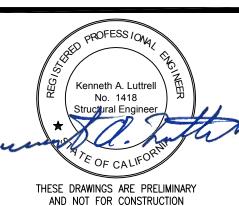
NOTE: TABLE ABOVE SHOWS MAXIMUM VALUES ALLOWED. FOR SPECIFIC JOB VALUES SEE THE SD-1 SUBMITTAL DRAWING

ALL SPECIFIED ITEMS SHOWN ARE RECOMMENDED AND "OR EQUAL" PRODUCTS MAY BE SUBSTITUTED.

HZ

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EVAT \mathcal{C} 6 P.(SV 8(Q MODUL Щ

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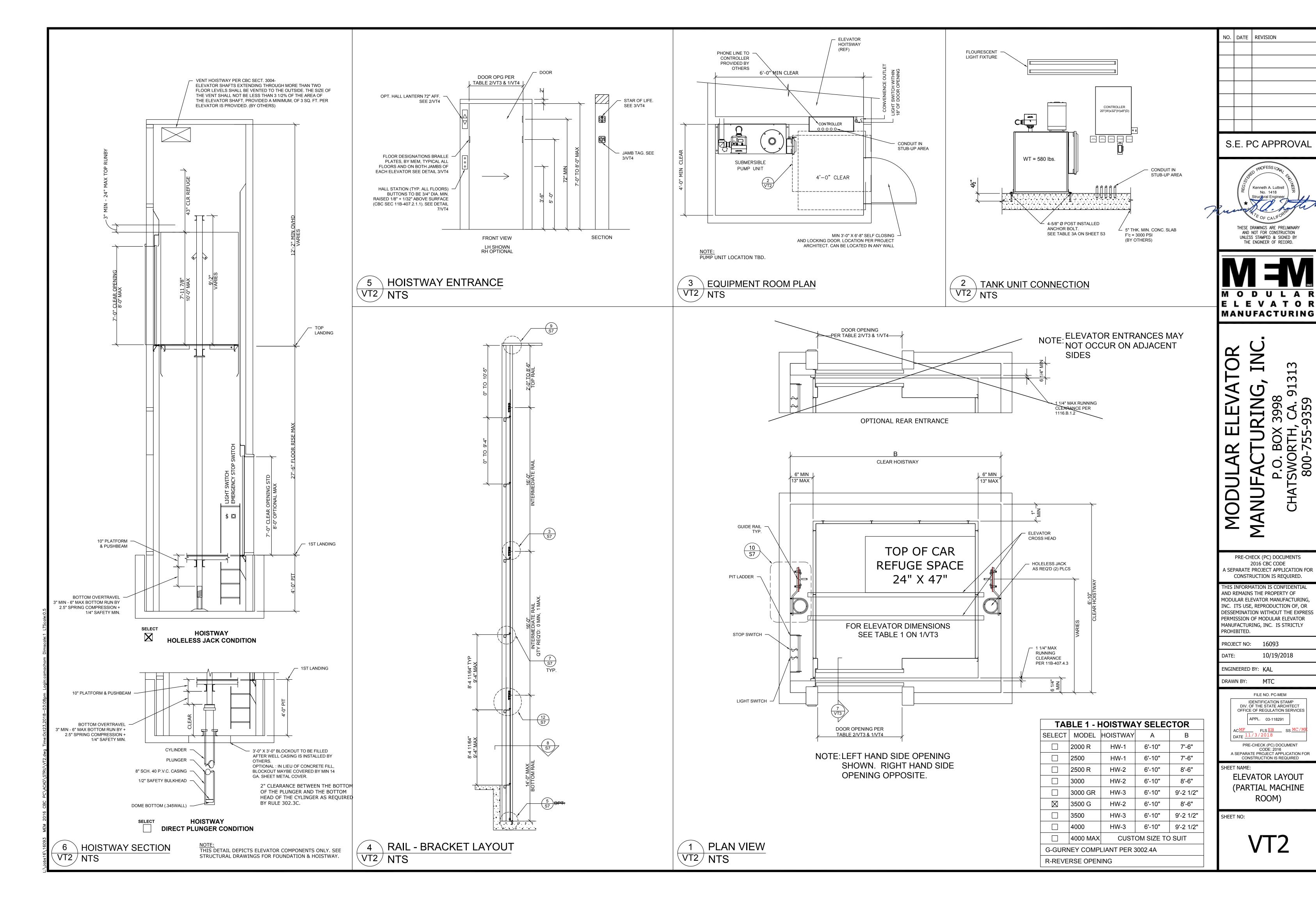
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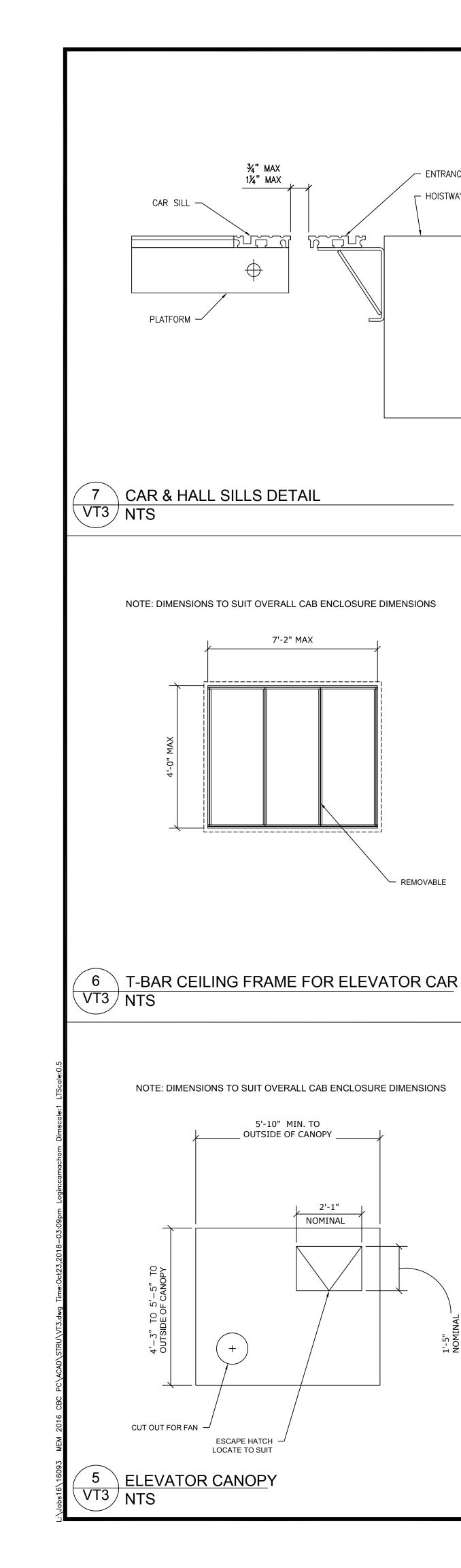
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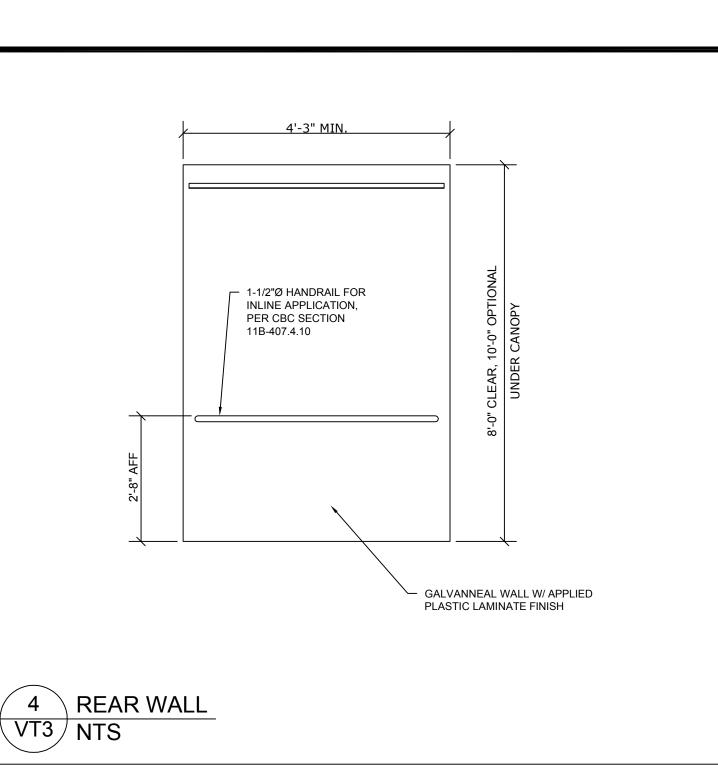
ELEVATOR DATA

SHEET NO:

2 0/0







4'-3" MIN.

- ENTRANCE FRAME SILL

6" UNDER -CEILING

NOTES:

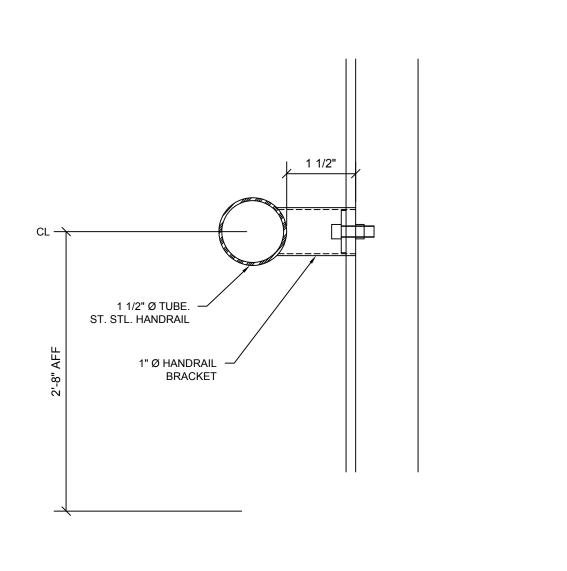
VT3/NTS

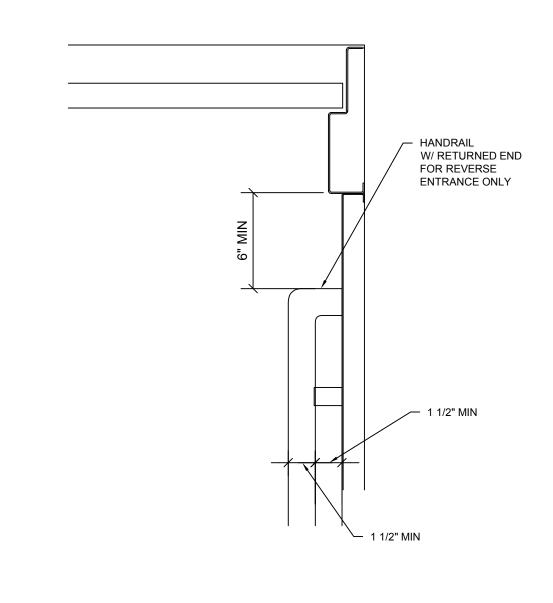
CAR LANTERN -

CAB DOOR -

INFRARED DOOR DEVICE @ +5" & +29" PER CBC 11B-407.3.3, O 11B-407.3.3.1-3

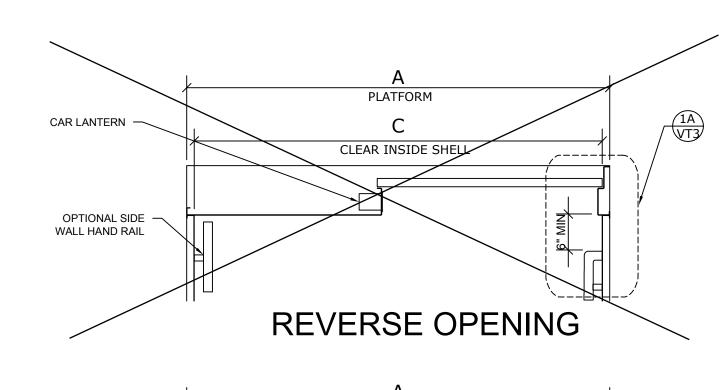
HOISTWAY HSS

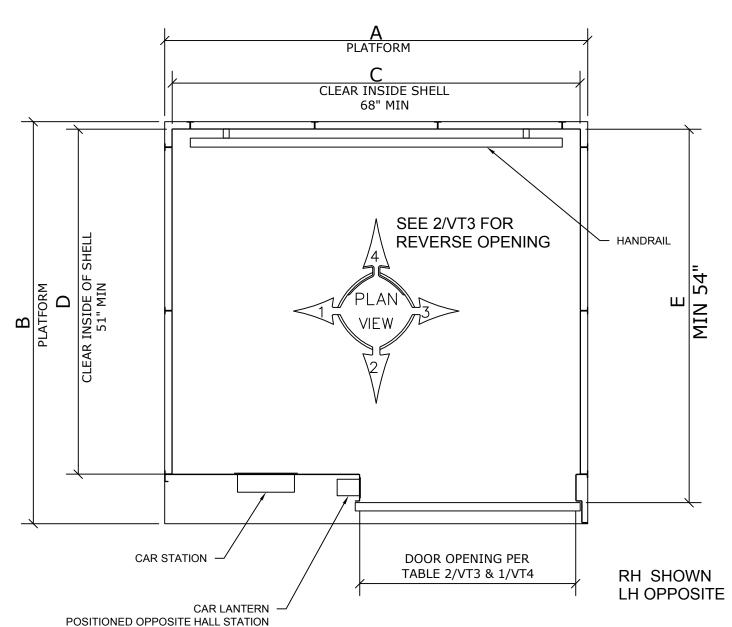




1A PLAN: HANDRAIL AT RETURNED END

1B SECTION TRU HANDRAIL





FRONT OPENING SINGLE SPEED SIDE SLIDE

- 2. CAR DOORS: 16 GA GALVANNEAL, PRIMED FINISH OR STAINLESS
- SIDE & REAR WALL PANELS: 16 GA GALVANNEAL WITH AN APPLIED PLASTIC LAMINATE ON THE INTERIOR, OR 16 GA STAINLESS STEEL.
- 5. CANOPY: 16 GA GALVANNEAL, REFLECTIVE WHITE FINISH ONLY REQUIRED ON THE INSIDE OF CAB, NO PRIME ON THE OUTSIDE
- 6. CEILING: T-BAR WITH CEILING PANELS
- HANDRAIL: 1 1/2: ROUND HANDRAIL
- CAR SILL: ALUMINUM WITH A NATURAL FINISH PER 7/VT3 VENTILATION: FAN AND VENT SLOTS IN THE BASE OF THE
- 10. CAR DOORS ARE PRE DRILLED FOR DOOR EQUIPMENT 11. LIGHTING: FLOURESCENT STRIP LIGHTS
- 12. ALL MATERIAL FOR CAR ENCLOSURES SHALL MEET THE REQUIREMENTS OF ASME A17.1, SECT. 204.2.



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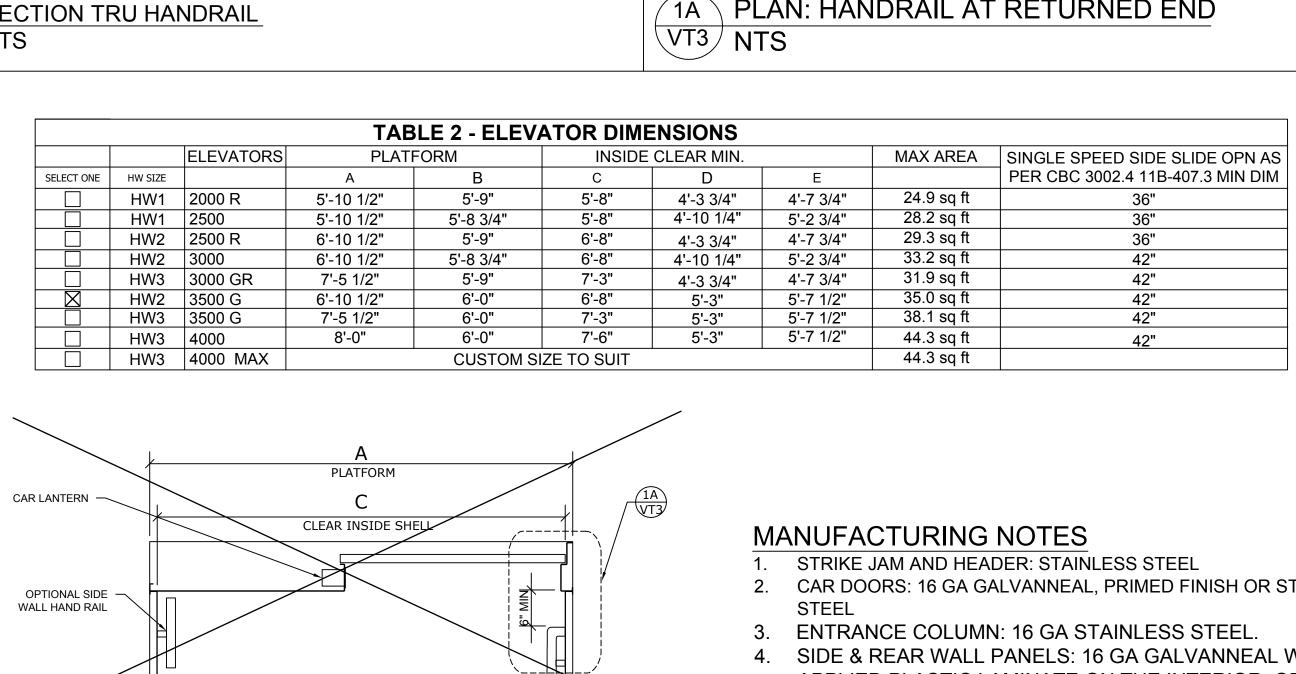
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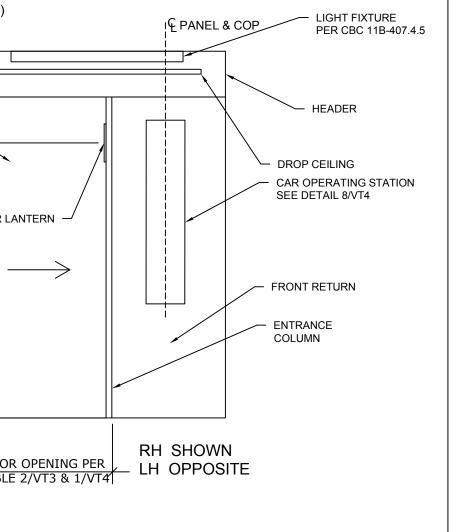
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ELEVATOR CAB

SHEET NO:



SIDE WALL 1. REAR RETURN FOR REVERSE ENTRANCE SIMILAR 2. LIGHT FIXTURE TO PROVIDE A MINIMUM OF 5 FOOT CANDLES AT CONTROL PANEL LANDING & THRESHOLD WHEN CAB LANDING DOORS ARE OPEN. (CBC SEC 11B-407.4.5) LIGHT FIXTURE PER CBC 11B-407.4.5 CAR DOOR DROP CEILING CAR OPERATING STATION SEE DETAIL 8/VT4 CAR LANTERN -- FRONT RETURN ENTRANCE COLUMN RH SHOWN DOOR OPENING PER LH OPPOSITE 2 FRONT RETURN WALL



OPTIONAL REVERSE ENTRANCE

SIM TO FRONT OPENING

· 1 1/2" DIA HAND RAIL. REAR & SIDE WALLS AS REQ'D

SIDE HANDRAIL OPTIONAL FOR FRONT OPENING ELEVATOR

PER CBC 11B-407.4.10

GALVANNEAL WALL W/ APPLIED

PLASTIC LAMINATE FINISH

PLAN VT3/NTS

