

# RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY

## for ROWLAND UNIFIED SCHOOL DISTRICT

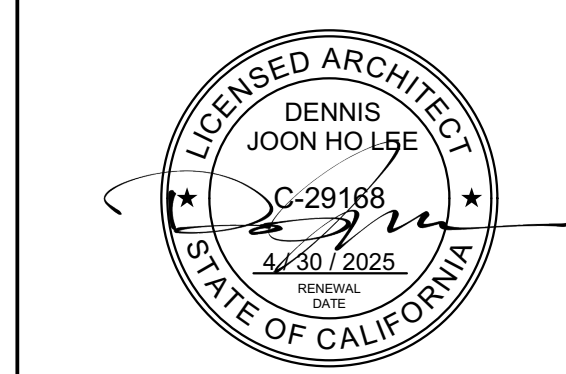
CO-AR PROJECT NO. : 201904  
PTN : 73452-189

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER OR OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY BREACH OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OR RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.

NOTES:

GENERAL ABBREVIATIONS AND SYMBOLS		APPLICABLE CODES	GENERAL NOTES	SCOPE OF WORK	SHEET INDEX
<p>&amp; AND</p> <p>/ ANGLE</p> <p>@ AT</p> <p>CL CENTERLINE</p> <p>Ø DIAMETER OR ROUND</p> <p>⊥ PERPENDICULAR</p> <p># POUND OR NUMBER</p> <p>A.B AIR CONDITIONING</p> <p>A/C ASPHALTIC CONCRETE</p> <p>ACOUS. ACOUSTICAL</p> <p>AD. AREA DRAIN</p> <p>ADDN. ADDITION</p> <p>ADJ. ADJUSTABLE</p> <p>AGGR. AGGREGATE</p> <p>AL. ALUMINUM</p> <p>ALT. ALTERNATE</p> <p>APPROX. APPROXIMATE</p> <p>ARCH. ARCHITECTURAL</p> <p>ASPH. ASPHALT</p> <p>AVE. AVENUE</p> <p>BD. BOARD</p> <p>BLDG. BUILDING</p> <p>BLK. BLOCK</p> <p>BLKG. BLOCKING</p> <p>B.M. BENCH MARK</p> <p>BM. BEAM</p> <p>BOT. BOTTOM</p> <p>B.TWNL. BETWEEN</p> <p>B.W. BOTH WAYS</p> <p>CAB. CABINET</p> <p>C.B. CATCH BASIN</p> <p>CBA. CONCRETE BLOCK ANCHORAGE</p> <p>CEM. CEMENT</p> <p>CER. CERAMIC</p> <p>CHBD. CHALKBOARD</p> <p>C.I. CAST IRON</p> <p>C.J. CONTROL JOINT</p> <p>CLG. CEILING</p> <p>CLO. CLOSET</p> <p>CLR. CLEAR</p> <p>C.M.U. CONCRETE MASONRY UNIT</p> <p>CNTR. COUNTER</p> <p>COL. COLUMN</p> <p>CONC. CONCRETE</p> <p>CONN. CONNECTION</p> <p>CONST. CONSTRUCTION</p> <p>CONT. CONTINUOUS</p> <p>CORR. CORRIDOR</p> <p>C.T. CERAMIC TILE</p> <p>CPT. CARPET</p> <p>CTR. CENTER</p> <p>NO. OR # NOM.</p> <p>CTS.K. COUNTERSINK</p> <p>DBL. DOUBLE</p> <p>DEPT. DEPARTMENT</p> <p>DET. DETAIL</p> <p>D.F. DRINKING FOUNTAIN</p> <p>DIA. DIAMETER</p> <p>DIAG. DIAGONAL</p> <p>DIM. DIMENSION</p> <p>DISP. DISPENSER</p> <p>DISPOS. DISPOSAL</p> <p>DN. DOWN</p> <p>D.O. DOOR OPENING</p> <p>DR. DOOR</p> <p>DS. DOWNSPOUT</p> <p>D.S.P. DRY STANDPIPE</p> <p>D.T.J. DEEP TOOLED JOINT</p> <p>DWG. DRAWING</p> <p>DWR. DRAWER</p> <p>(E) EXISTING</p> <p>E. EAST</p> <p>EA. EACH</p> <p>E.C.W. EXISTING COLD WATER</p> <p>E.J. EXPANSION JOINT</p> <p>EL. ELEVATION</p> <p>ELEC. ELECTRICAL</p> <p>EMER. EMERGENCY</p> <p>ENCL. ENCLOSURE</p> <p>EP. ELECTRICAL PANELBOARD</p> <p>EQ. EQUAL</p> <p>EQPT. EQUIPMENT</p> <p>E.S. EXISTING SEWER</p> <p>EXP. EXPANSION</p> <p>EXPO. EXPOSED</p> <p>EXT. EXTERIOR</p> <p>E.W.C. ELECTRIC WATER COOLER</p> <p>F.A. FIRE ALARM</p> <p>F.D. FLOOR DRAIN</p> <p>FDN. FOUNDATION</p> <p>F.E. FIRE EXTINGUISHER</p> <p>F.E.C. FIRE EXTINGUISHER CABINET</p> <p>FF. FINISH FLOOR</p> <p>F.H. FIRE HYDRANT</p> <p>F.H.C. FIRE HOSE CABINET</p> <p>F.H.M.S. FLAT MACHINE SCREW</p> <p>F.H.W.S. FLAT HEAD WOOD SCREW</p> <p>FIN. FINISH</p> <p>FX. FIXTURE</p> <p>FL. FLOW LINE</p> <p>FLASH. FLASHING</p> <p>FLR. FLOOR</p> <p>FLUOR. FLUORESCENT</p> <p>F.O.C. FACE OF CONCRETE</p> <p>F.O.F. FACE OF FINISH</p> <p>F.O.M. FACE OF MASONRY</p> <p>F.O.S. FACE OF STUDS</p> <p>FRF. FIREPROOF</p> <p>F.R. FIRE RATED</p> <p>FS. FLOOR SINK</p> <p>FT. FOOT OR FEET</p> <p>FTG. FOOTING</p> <p>FURR. FURRING</p> <p>FUT. FUTURE</p> <p>GA. GALV.</p> <p>GALV. GALVANIZED</p> <p>G.B. GRAB BAR</p> <p>G.I. GLASS</p> <p>GL. GLASS</p> <p>GND. GROUND</p> <p>GR. GRADE</p> <p>GYP. GYPSUM</p> <p>GYP. WBD. GYPSUM WALLBOARD</p> <p>H.B. HOSE BIBB</p> <p>H.C. HOLLOW CORE</p> <p>HDW. HARDWARE</p> <p>HDWD. HARDWOOD</p> <p>H.M. HOLLOW METAL</p> <p>HORIZ. HORIZONTAL</p> <p>HR. HOUR</p> <p>HT. HEIGHT</p> <p>IC. INTERCOM</p> <p>I.D. INSIDE DIAMETER (DIM)</p> <p>INSUL. INSULATION</p> <p>INT. INTERIOR</p> <p>INV. INVERT</p> <p>JAN. JANITOR</p> <p>JT. JOINT</p> <p>KIT. KITCHEN</p> <p>KO. KNOCKOUT</p> <p>LAB. LABORATORY</p> <p>LAM. LAMINATE</p> <p>LAV. LAVATORY</p> <p>LB. POUND</p> <p>L.F. LINEAR FOOT/FEET</p> <p>LIB. LIBRARY</p> <p>LKR. LOCKER</p> <p>MACH. MACHINE</p> <p>MATL. MATERIAL</p> <p>MAX. MAXIMUM</p> <p>MEZZ. MEZZANINE</p> <p>M.C. MEDICINE CABINET</p> <p>M.D.O. MEDIUM DENSITY OVERLAY</p> <p>MECH. MECHANICAL</p> <p>MEMB. MEMBRANE</p> <p>MFG. MANUFACTURING</p> <p>MFR. MANUFACTURER</p> <p>MH. MANHOLE</p> <p>MIN. MINIMUM</p> <p>MIR. MIRROR</p> <p>MISC. MISCELLANEOUS</p> <p>MTD. MOUNTED</p> <p>MUL. MULLION</p> <p>MTL. METAL</p> <p>(N) NEW</p> <p>N. NORTH</p> <p>NAT. NATURAL</p> <p>N.C. NOT IN CONTRACT</p> <p>NO. OR # NUMBER</p> <p>NOM. NOMINAL</p> <p>NOT TO SCALE</p> <p>OA. OVERALL</p> <p>OBS. OBSCLURE</p> <p>O.C. ON CENTER</p> <p>O.D. OUTSIDE DIAMETER (DIM)</p> <p>O.F.C.I. OWNER FURNISHED CONTRACTOR INSTALLED</p> <p>O.F.O.I. OWNER FURNISHED OWNER INSTALLED</p> <p>OFF. OFFICE</p> <p>OPNG. OPENING</p> <p>OPP. OPPOSITE</p> <p>ORIG. ORIGINAL</p> <p>PL. PLATE</p> <p>P.LAM. PLASTIC LAMINATE</p> <p>PLAS. PLASTER</p> <p>PLYWD. PLYWOOD</p> <p>PNL. PANEL</p> <p>POL. POLISH</p> <p>PR. PAIR</p> <p>PRCST. PRE-CAST</p> <p>P.S.F. PRE-FINISHED STEEL FRAME</p> <p>P.S.I. POUNDS PER SQUARE INCH</p> <p>PT. POINT</p> <p>P.D. PAPER TOWEL DISPENSER</p> <p>P.T.D./R. COMBINATION PAPER TOWEL DISPENSER &amp; RECEPTACLE</p> <p>PTN. PARTITION</p> <p>P.T.R. PAPER TOWEL RECEPTACLE</p> <p>Q.T. QUARRY TILE</p> <p>R. RISER</p> <p>RAD. RADIUS</p> <p>R.D. ROOF DRAIN</p> <p>REF. REFERENCE</p> <p>REFR. REFRIGERATOR</p> <p>REGTR. REGISTER</p> <p>REINF. REINFORCED</p> <p>REQD. REQUIRED</p> <p>RESIL. RESILIENT</p> <p>REV. REVISE</p> <p>R.H.M.B. ROUND HEAD MACHINE BOLT</p> <p>R.H.W.S. ROUND HEAD WOOD SCREW</p> <p>RM. ROOM</p> <p>RND. ROUND</p> <p>R.O. ROUND OPENING</p> <p>RWD. REDWOOD</p> <p>S. SOUTH</p> <p>S.C. SOLID CORE</p> <p>S.C.D. SEAT COVER DISPENSER</p> <p>S.D. SOAP DISPENSER</p> <p>SECT. SECTION</p> <p>S.F. SQUARE FOOT/FEET</p> <p>SH. SHELF</p> <p>SHR. SHOWER</p> <p>SHT. SHEET</p> <p>SIM. SIMILAR</p> <p>S.J. SAWED (CONTROL) JOINT</p> <p>S.M.S. SHEET METAL SCREW</p> <p>S.N.D. SANITARY NAPKIN DISPENSER</p> <p>S.N.R. SANITARY NAPKIN RECEPTACLE</p> <p>SPEC. SPECIFICATION</p> <p>SQ. SQUARE</p> <p>S.S.K. SERVICE SINK</p> <p>SST. STAINLESS STEEL</p> <p>STA. STATION</p> <p>STD. STANDARD</p> <p>STL. STEEL</p> <p>STOR. STORAGE</p> <p>STRUCT. STRUCTURAL</p> <p>SUSP. SUSPENDED</p> <p>SYMM. SYMMETRICAL</p> <p>T.B. TOWEL BAR</p> <p>T.C. TOP OF CURB</p> <p>T.CB. TOP OF CATCH BASIN</p> <p>TEL. TELEPHONE</p> <p>TER. TERRAZZO</p> <p>T.&amp;G. TONGUE AND GROOVE</p> <p>THK. THICK</p> <p>T.O.C. TOP OF CONCRETE</p> <p>T.O.M. TOP OF MASONRY</p> <p>T.O.S. TOP OF STEEL</p> <p>T.O.P. TOP OF PLATE/PARAPET</p> <p>T.P. TOP OF PAVEMENT</p> <p>T.P.D. TOILET PAPER DISPENSER</p> <p>TREAD. TREAD</p> <p>T.S. TOP OF SHEATHING</p> <p>T.V. TELEVISION</p> <p>T.W. TOP OF WALL</p> <p>TYP. TYPICAL</p> <p>U.C. UNDER CUT</p> <p>UG. UNDERGROUND</p> <p>UNF. UNFINISHED</p> <p>UNF.O. UNLESS NOTED OTHERWISE</p> <p>UR. URINAL</p> <p>V.C.T. VINYL COMPOSITION TILES</p> <p>VENT. VENTILATE(R)</p> <p>VERT. VERTICAL</p> <p>VEST. VESTIBULE</p> <p>V.G.D.F. VERTICAL GRAIN DOUGLAS FIR</p> <p>V.I.F. VERIFY IN FIELD</p> <p>VOL. VOLUME</p> <p>W. WEST</p> <p>WJ. WITH</p> <p>WC. WATER CLOSET</p> <p>WD. WOOD</p> <p>WDO. WINDOW</p> <p>WH. WATER HEATER</p> <p>W/O. WITHOUT</p> <p>WP. WATERPROOFING</p> <p>WR. WATER RESISTANT</p> <p>WSC.T. WAINSCOT</p> <p>WT. WEIGHT</p> <p>W.W.F. WELDED WIRE FABRIC</p>	<p>SOUTH</p> <p>SOLID CORE</p> <p>SEAT COVER DISPENSER</p> <p>SOAP DISPENSER</p> <p>SECTION</p> <p>SQUARE FOOT/FEET</p> <p>SHELF</p> <p>SHOWER</p> <p>SHEET</p> <p>SIMILAR</p> <p>SAWED (CONTROL) JOINT</p> <p>SHEET METAL SCREW</p> <p>SANITARY NAPKIN DISPENSER</p> <p>SANITARY NAPKIN RECEPTACLE</p> <p>SPECIFICATION</p> <p>SQUARE</p> <p>SERVICE SINK</p> <p>STAINLESS STEEL</p> <p>STATION</p> <p>STANDARD</p> <p>STEEL</p> <p>STORAGE</p> <p>STRUCTURAL</p> <p>SUSPENDED</p> <p>SYMMETRICAL</p> <p>TOWEL BAR</p> <p>TOP OF CURB</p> <p>TOP OF CATCH BASIN</p> <p>TELEPHONE</p> <p>TERRAZZO</p> <p>TONGUE AND GROOVE</p> <p>THICK</p> <p>TOP OF CONCRETE</p> <p>TOP OF MASONRY</p> <p>TOP OF STEEL</p> <p>TOP OF PLATE/PARAPET</p> <p>TOP OF PAVEMENT</p> <p>TOILET PAPER DISPENSER</p> <p>TREAD</p> <p>TOP OF SHEATHING</p> <p>TELEVISION</p> <p>TOP OF WALL</p> <p>TYPICAL</p> <p>UNDER CUT</p> <p>UNDERGROUND</p> <p>UNFINISHED</p> <p>UNLESS NOTED OTHERWISE</p> <p>URINAL</p> <p>VINYL COMPOSITION TILES</p> <p>VENTILATE(R)</p> <p>VERTICAL</p> <p>VESTIBULE</p> <p>VERTICAL GRAIN DOUGLAS FIR</p> <p>VERIFY IN FIELD</p> <p>VOLUME</p> <p>WEST</p> <p>WITH</p> <p>WATER CLOSET</p> <p>WOOD</p> <p>WINDOW</p> <p>WATER HEATER</p> <p>WITHOUT</p> <p>WATERPROOFING</p> <p>WATER RESISTANT</p> <p>WAINSCOT</p> <p>WEIGHT</p> <p>WELDED WIRE FABRIC</p>	<p>ALL WORK PERTAINING TO AND ALL MATERIALS SUPPLIED FOR EXECUTING AND COMPLETING THIS CONTRACT SHALL COMPLY WITH PROVISIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND WITH ALL APPLICABLE LAWS, REGULATIONS AND ORDINANCES GOVERNING WORK INCLUDING, BUT NOT NECESSARILY LIMITED TO THOSE OF:</p> <p>2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.</p> <p>2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE AND CALIFORNIA AMENDMENTS)</p> <p>2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA, WITH CALIFORNIA AMENDMENTS)</p> <p>2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS)</p> <p>2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)</p> <p>2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.</p> <p>2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND CALIFORNIA AMENDMENTS)</p> <p>2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING BUILDING CODE AND CALIFORNIA AMENDMENTS)</p> <p>2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.</p> <p>2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.</p> <p>2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35</p> <p>NFPA 13-22 AUTOMATIC SPRINKLER SYSTEMS</p> <p>NFPA 14-19 STANDPIPE SYSTEMS</p> <p>NFPA 20-19 STATIONARY PUMPS</p> <p>NFPA 24-19 PRIVATE FIRE MAINS</p> <p>NFPA 25-13 CALIFORNIA EDITION-STANDARDS FOR WATER-BASED FIRE PROTECTION SYSTEMS</p> <p>NFPA 72-22 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")</p> <p>NFPA 80-19 FIRE DOOR AND OTHER OPENING PROTECTIVES</p> <p>NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2015 EDITION</p> <p>NFPA 2001-18 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS</p>	<p>THE FOLLOWING NOTES SHALL APPLY TO THE SITEMARK CONTRACTOR UNLESS NOTED OTHERWISE:</p> <p>CONTRACTOR SHALL VISIT THE SITE(S), SPECIFICALLY AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND, BY SUBMITTING A BID, ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.</p> <p>1. RISE AT CLASSROOM DOOR ENTRANCE THRESHOLD SHALL NOT EXCEED 1/4". CONTRACTOR SHALL ADJUST PAVEMENT AS REQUIRED TO MEET THIS CONDITION.</p> <p>2. CONTRACTOR SHALL INSURE POSITIVE DRAINAGE AWAY FROM THE NEW RELOCATABLE CLASSROOMS, AND ANY ADJACENT EXISTING FACILITIES.</p> <p>3. PROVIDE SADDLE OVER ALL EXISTING UNDERGROUND PIPING AS REQUIRED BY D.S.A. AND CODE.</p> <p>4. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES WITHIN CONSTRUCTION AREA PRIOR TO COMMENCING WORK.</p> <p>5. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PARAGRAPH 1, TITLE 24, CCR.</p> <p>6. A PROJECT INSPECTOR W/ CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.</p> <p>7. CONTRACTOR SHALL ALLOW PROPER TIMING TO COMPLETE ALL FINAL UTILITY HOOK-UPS AFTER THE INSTALLATION OF RELOC. BUILDINGS.</p> <p>8. PROJECT #03-102932 CERTIFICATION LETTER (FORM) SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S). THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S). NOTIFY ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.</p> <p>9. 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, CALIFORNIA CODE OF REGULATIONS. 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, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.</p>	<p>RELOCATION OF (1) 32X60 RELOCATABLE BUILDING (FROM A#03-102932 / PC#295) ELECTRICAL AND PLUMBING CONNECTIONS, AND AFFECTED SITEMARK.</p> <p>DEMOLITION OF (1) NON LOAD BEARING PARTITION, REMOVE EXISTING CABINET AND PROVIDE NEW CABINET PER DRAWINGS.</p> <p>INSTALLATION OF (1) ON-SITE FIRE HYDRANT PER WEST COVINA FIRE DEPARTMENT'S REQUIREMENTS.</p>	<p><b>GENERAL DRAWINGS</b></p> <p>T-1.1 TITLE SHEET</p> <p>FP-1.1 FIRE ACCESS SITE PLAN</p> <p><b>CIVIL DRAWINGS</b></p> <p>C-1 SITE CIVIL GENERAL NOTES</p> <p>C-2 GRADING AND DRAINAGE PLAN</p> <p>C-3 SITE UTILITY PLAN (WATER AND SEWER)</p> <p><b>ARCHITECTURAL DRAWINGS</b></p> <p>A-1.1 SITE PLAN</p> <p>A-2.1 RELOCATABLE 'F' PLANS</p> <p>A-2.2 ARCHITECTURAL DETAILS</p> <p><b>PLUMBING DRAWINGS</b></p> <p>P-0.1 GENERAL NOTES, ABBREVIATIONS, CODES, SHEET INDEX</p> <p>P-1.1 SITE PLAN</p> <p>P-2.1 RELOCATABLE 'F' DEMOLITION &amp; REMODEL PLANS</p> <p><b>ELECTRICAL DRAWINGS</b></p> <p>E-1.0 ELECTRICAL SYMBOL LIST &amp; GENERAL NOTES</p> <p>E-2.0 ELECTRICAL SITE PLAN</p> <p>E-3.0 RELO ELECTRICAL PLAN</p> <p>FA-1.0 FIRE ALARM SYMBOL LIST &amp; GENERAL NOTES</p> <p>FA-1.01 FIRE ALARM DETAILS AND BATTERY CALCULATIONS</p> <p>E-2.0 ELECTRICAL SITE PLAN</p> <p>E-3.0 RELO LIGHTING PLAN</p> <p>SUB TOTAL SHEET COUNT: 18</p> <p><b>MANUFACTURER'S DRAWINGS:</b> (32'X60': A#03-102932) (PC#295)</p> <p>T-1 TITLE SHEET, VICINITY MAP, SITE PLAN, PARTIAL SITE PLAN, INDEX OF DRAWINGS</p> <p>T-1.1 ORS CHECKLIST</p> <p>T-2 PARTIAL SITE PLAN, GENERAL NOTES / SCOPE OF WORK NOTES</p> <p>T-3</p> <p>P-1 PARTIAL SITE PLAN</p> <p>P-2 FLOOR PLAN</p> <p>E-1 ELECTRICAL SITE PLAN</p> <p>E-2 GENERAL NOTES, SYMBOLS LISTS, SINGLE LINE DIAGRAM AND RCR SIGNAL PLAN</p> <p>E-3 DETAILS, FIRE ALARM CALCULATIONS AND SIGNAL RISER DIAGRAM</p> <p>E-4 ELECTRICAL SPECIFICATIONS</p> <p>E-5 ELECTRICAL SPECIFICATIONS</p> <p>T-1 TITLE SHEET</p> <p>T-2 STRUCTURAL TESTS AND INSPECTION</p> <p>A-1 FLOOR PLAN &amp; REFLECTED CEILING PLAN</p> <p>A-2 ROOF PLAN, ELEVATIONS, SECTION, KITCHEN ELEVATIONS</p> <p>A-2W ARCHITECTURAL DETAILS AND SECTIONS</p> <p>A-3 SUSPENDED CEILING NOTES &amp; DETAILS</p> <p>RS-1CW ROOF FRAMING PLAN / DETAILS &amp; WALL FRAMING ELEVATIONS</p> <p>S-1W ROOF FRAMING PLAN / DETAILS &amp; WALL FRAMING ELEVATIONS</p> <p>S-1ADD ROOF FRAMING PLAN &amp; HVAC SUPPORT DETAILS</p> <p>S-2 STRUCTURAL DETAILS</p> <p>SS-2C FLOOR FRAMING PLAN AND STRUCTURAL ELEVATIONS</p> <p>SS-3 STANDARD STRUCTURAL DETAILS, SECTIONS AND NOTES</p> <p>S-4 H.V.A.C. MOUNTING DETAILS, MISC. DETAILS &amp; NOTES</p> <p>F-2 FOUNDATION PLAN (CONCRETE)</p> <p>F-2A FOUNDATION SECTIONS / DETAILS AND NOTES</p> <p>RRL-1 RAMPS AND LANDING DETAILS</p> <p>RE-1 ELECTRICAL LIGHTING AND POWER PLAN / DETAILS &amp; NOTES</p> <p>RM-1 HVAC PLAN, CONTROL DIAGRAM AND EQUIPMENT SCHEDULE</p> <p>P-1 PLUMBING RISER DIAGRAM (ISOMETRIC) AND FIXTURE SCHEDULE</p> <p>SUB TOTAL SHEET COUNT: 30</p> <p><b>TOTAL SHEET COUNT: 48</b></p>
<p><b>PROJECT TEAM</b></p> <p><b>ARCHITECT</b> CO-AR DESIGN, INC. 680 BREA CANYON RD., STE. 178, DIAMOND BAR, CA 91789 CONTACT: DENNIS J. LEE, R.A. PH: (909) 598-0186</p> <p><b>ELECTRICAL ENGINEER</b> PACIFIC ENGINEERS GROUP 1106 W. MAGNOLIA BLVD., SUITE A, BURBANK, CA 91506 CONTACT: ANTHONY FAJARDO, P.E. PH: (818) 859-7081</p> <p><b>CIVIL ENGINEER</b> ON-LINE ENGINEERING 908 WAVERLY PLACE, WEST COVINA, CA 91790 CONTACT: ROBERT MARTINEZ, P.E. PH: (626) 791-3980</p>		<p><b>FIRE ALARM NOTES</b></p> <p>1. THE FIRE ALARM SYSTEM SHALL CONFORM TO CFC ARTICLE 14, ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE AND NFPA 72.</p> <p>2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS HAVE BEEN SUBMITTED FOR REVIEW AND APPROVAL PLANS AND SPECIFICATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, A FLOOR PLAN; LOCATIONS OF ALL ALARM-INITIATION AND ALARM-SIGNALING DEVICES; ALARM CONTROL AND TROUBLE SIGNALING EQUIPMENT; ANNUNCIATION; POWER CONNECTION; BATTERY CALCULATION; VOLTAGE DROP CALCULATION; MAKE, MODEL AND STATE FIRE MARSHAL LISTING SHEETS OF ALL EQUIPMENT, DEVICES, AND MATERIALS REQUIRING LISTING; AND WIRING OR CABLE TYPE AND SIZES. CFC ARTICLE 14.103(a)</p> <p>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.</p>			
<p><b>GRAPHIC SYMBOLS</b></p> <p> BUILDING/WALL SECTION REFERENCE</p> <p> DETAIL REFERENCE</p> <p> ROOM NAME</p> <p> ROOM NUMBER</p> <p> DOOR NUMBER</p> <p> CONSTRUCTION NOTE</p> <p> BREAK LINE</p> <p> SPOT ELEVATION</p>		<p><b>VICINITY MAP</b></p>			
<p><b>STATEMENT FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS (INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS) PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS</b></p> <p>THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW 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 DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.</p> <p>THE ITEMS LISTED BELOW HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)</p> <p>LIST OF DRAWINGS: (DRAWINGS LISTED UNDER "MANUFACTURER'S DRAWINGS"; SEE SHEET INDDX ON THIS SHEET)</p> <p>SIGNATURE OF THE ARCHITECT/ENGINEER: DENNIS J. LEE, NCARB DATE: 4/30/2025 LICENSE NUMBER: C-29168 EXPIRATION DATE:</p>					



ARCHITECT: CO-AR DESIGN, INC.  
680 Brea Canyon Road, Suite 178  
Diamond Bar, California 91789  
Office: 909-598-0186



RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

PROJECT NO: 201904  
SCALE: AS SHOWN  
DATE: 8/23/2023  
DRAWN BY: ED / FW  
CHECKED BY: DL

**TITLE SHEET**

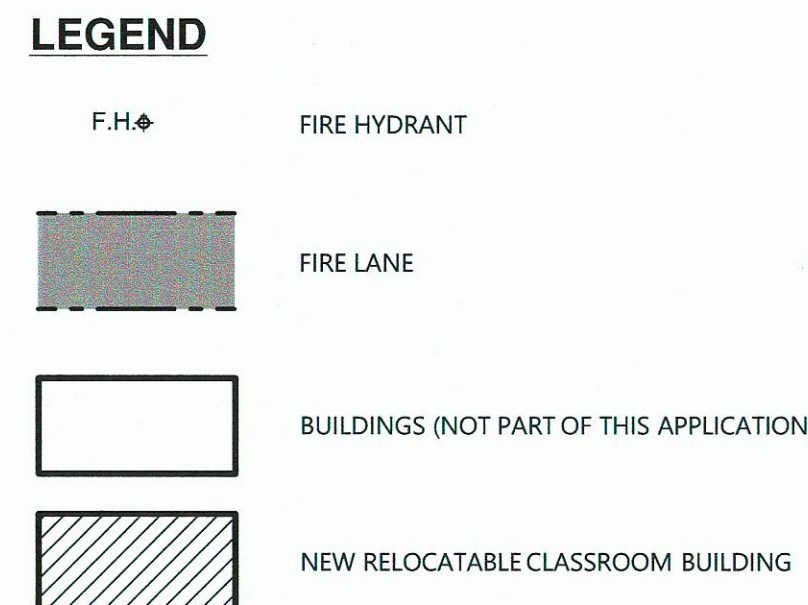
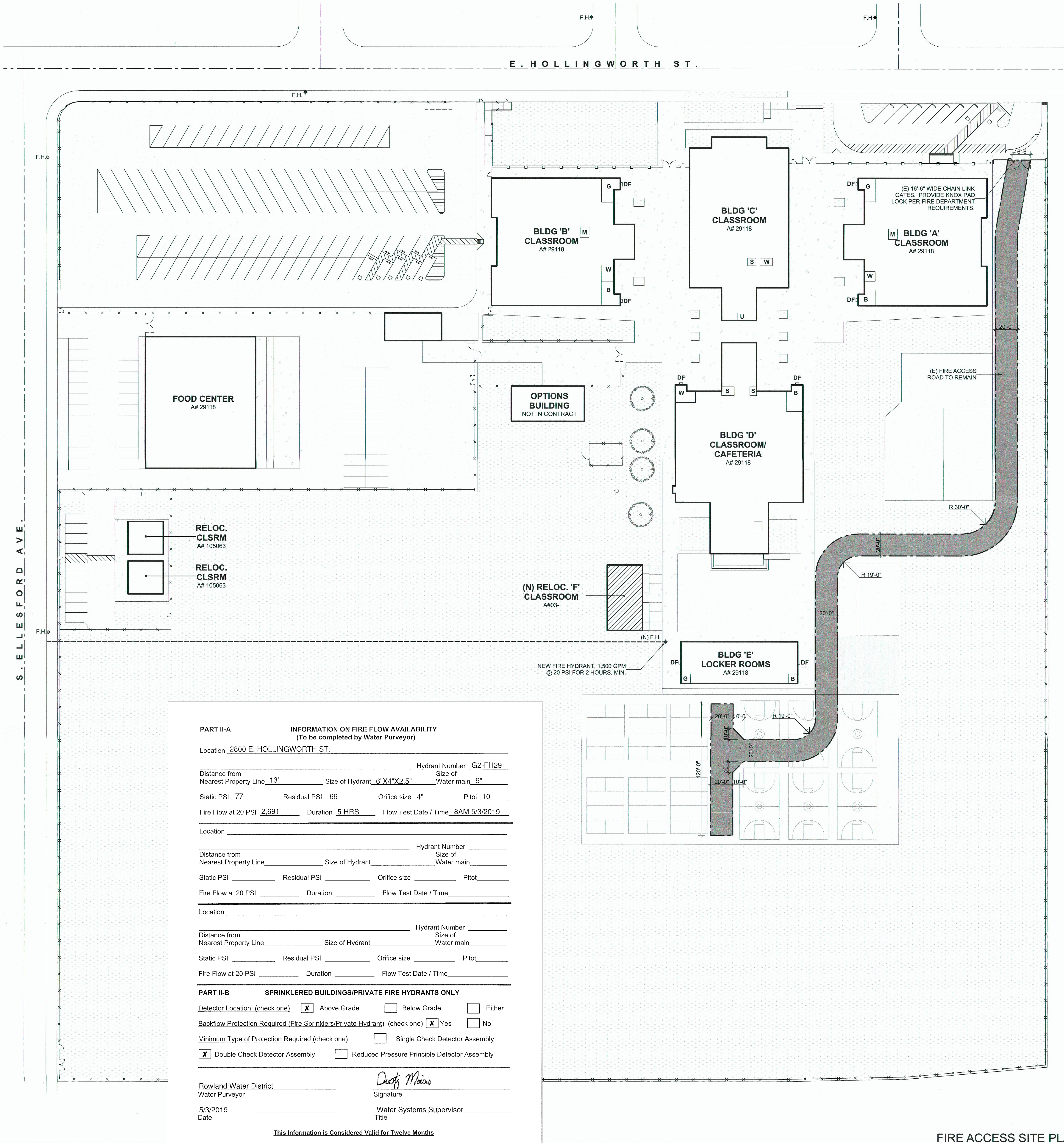
SHEET NO: T-1.1

Vertical text on the left margin: 2023-08-23 14:03:04



THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OR RECORD.

NOTES:  
 COPYRIGHT © 2013 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.



**DSA** **810**

**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1-3 below is to be provided for all project types indicated above. Information associated with items 4-7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested. Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and [DSA Policy 09-01](#).

**PROJECT INFORMATION**

School District/Owner: Rowland Unified School District  
 Project Name/School: Telesis Academy of Science and Math  
 Project Address: 2800 E. Hollingworth St., West Covina, CA 91792

**FIRE & LIFE SAFETY INFORMATION**

1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Refer to the following for fire hazard zone locations: <a href="http://www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps">www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps</a>	Moderate <input type="checkbox"/>	High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)	WIFA <input type="checkbox"/>	

**CONDITION MEANS AND METHODS RESOLUTION**

	ALTERNATE ACCEPTED			
	Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				
4a. <b>Acceptable Alternate:</b> Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>			
5. <b>Fire Hydrants:</b> Number and spacing does not meet CFC requirements.				
5a. <b>Acceptable Alternate:</b> Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	<input checked="" type="checkbox"/>			
6. <b>Fire Hydrants:</b> Water flow and pressure are less than CFC minimum.				
6a. <b>Acceptable Alternate:</b> The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>			
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a. <b>Acceptable Alternate:</b> The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.			NA	

DSA 810 (rev 10-22-18) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

**West Covina Fire Prevention Bureau Approval (Conditional)**  
 This certifies that these plans or specifications have been checked for substantial compliance with the applicable codes, laws, and regulations. This approval shall not be construed as granting violation of any applicable code, law, or regulation and shall not prevent the Fire Official from requiring the correction of errors in said plans or specifications thereafter.  
 Certified by: [Signature] Date: 05/11/19

**PART II-A INFORMATION ON FIRE FLOW AVAILABILITY**  
 (To be completed by Water Purveyor)

Location: 2800 E. HOLLINGWORTH ST.

Hydrant Number: G2-FH29  
 Distance from Nearest Property Line: 13' Size of Hydrant: 6"x4"x2.5" Water main: 6"  
 Static PSI: 77 Residual PSI: 66 Orifice size: 4" Pitot: 10  
 Fire Flow at 20 PSI: 2,691 Duration: 5 HRS Flow Test Date / Time: 8AM 5/3/2019

Location: \_\_\_\_\_  
 Hydrant Number: \_\_\_\_\_  
 Distance from Nearest Property Line: \_\_\_\_\_ Size of Hydrant: \_\_\_\_\_ Water main: \_\_\_\_\_  
 Static PSI: \_\_\_\_\_ Residual PSI: \_\_\_\_\_ Orifice size: \_\_\_\_\_ Pitot: \_\_\_\_\_  
 Fire Flow at 20 PSI: \_\_\_\_\_ Duration: \_\_\_\_\_ Flow Test Date / Time: \_\_\_\_\_

Location: \_\_\_\_\_  
 Hydrant Number: \_\_\_\_\_  
 Distance from Nearest Property Line: \_\_\_\_\_ Size of Hydrant: \_\_\_\_\_ Water main: \_\_\_\_\_  
 Static PSI: \_\_\_\_\_ Residual PSI: \_\_\_\_\_ Orifice size: \_\_\_\_\_ Pitot: \_\_\_\_\_  
 Fire Flow at 20 PSI: \_\_\_\_\_ Duration: \_\_\_\_\_ Flow Test Date / Time: \_\_\_\_\_

**PART II-B SPRINKLERED BUILDINGS/PRIVATE FIRE HYDRANTS ONLY**

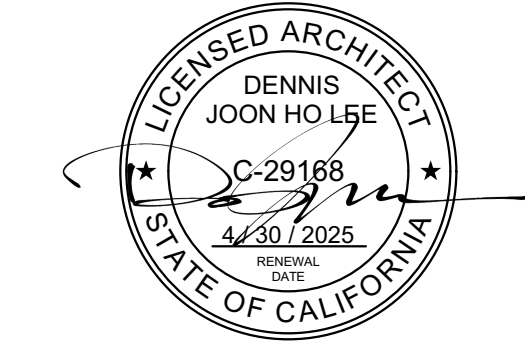
Detector Location (check one)  Above Grade  Below Grade  Either  
 Backflow Protection Required (Fire Sprinklers/Private Hydrant) (check one)  Yes  No  
 Minimum Type of Protection Required (check one)  Single Check Detector Assembly  
 Double Check Detector Assembly  Reduced Pressure Principle Detector Assembly

Rowland Water District  
 Water Purveyor: [Signature] Signature  
 Date: 5/3/2019 Title: Water Systems Supervisor

This Information is Considered Valid for Twelve Months

Fire Department approval of building plans shall be required prior to the issuance of a Building Permit by the jurisdictional Building Department. Any deficiencies in water systems will need to be resolved by the Fire Prevention Division prior to this department's approval of building plans.

**FIRE ACCESS SITE PLAN** (1)  
 SCALE: 1" = 40'



**CO-AR DESIGN, INC.**  
 680 Brea Canyon Road, Suite 178  
 Diamond Bar, California 91789  
 Office: 909-598-0186  
 Dennis J. Lee, NCARB dennisl@coar-design.com



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS: 2800 E. HOLLINGWORTH ST. WEST COVINA, CA. 91792

ROWLAND UNIFIED SCHOOL DISTRICT  
 1830 NOGALES STREET  
 ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS:  
 1 DSA PROGRESS 8/15/23

PROJECT NO: 201904  
 SCALE: AS SHOWN  
 DATE: 8/23/2023  
 DRAWN BY: ED / FW  
 CHECKED BY: DL

**FIRE ACCESS SITE PLAN (SCAN)**

SHEET NO: **FP-1.1**

**JOB COPY**



**GENERAL NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THIS PLAN, THE SPECIFICATION, THE LATEST STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, AND THE LATEST STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION.
- ALL GRADING CONSTRUCTION SHALL CONFORM TO CHAPTER 70 OF THE LOS ANGELES COUNTY BUILDING CODE UNLESS SPECIFICALLY NOTED ON THESE PLANS (7013.1).
- ANY MODIFICATIONS OF OR CHANGES IN APPROVED GRADING PLANS MUST BE APPROVED BY THE ARCHITECT AND OR ON-LINE ENGINEERING (HEREIN AFTER ENGINEER)
- THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED WHEN CONSTRUCTION HAS COMMENCED.
- IN THE EVENT OF DISCREPANCIES AND/OR DEVIATIONS ARISING DURING CONSTRUCTION, THE ARCHITECT AND ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND SHALL REVISE THE PLANS FOR APPROVAL BY THE OWNER/CITY/COUNTY.
- A COPY OF THE APPROVED GRADING PLAN MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- DRAINAGE AND GRADING STAKES FOR ALL DRAINAGE DEVICES SHALL BE PROVIDED BY A LICENSED SURVEYOR OR CIVIL ENGINEER
- FINAL GRADING MUST BE APPROVED BY THE PROJECT INSPECTOR BEFORE FOUNDATION CONSTRUCTION. WILL BE ALLOWED.
- EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
- PROVISION SHALL BE MADE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
- ROOF DRAINAGE MUST BE DIVERTED FROM GRADED SLOPES. (SECTION 7018.6 OF THE BUILDING CODE.)
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTY OWNERS FROM ANY ALL DAMAGES THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONJUNCTION WITH CONSTRUCTION OF THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND SHALL MAINTAIN ALL FACILITIES, COMPLETED AND UNCOMPLETED, UNTIL ACCEPTED BY THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE CITY/COUNTY INSPECTOR AT LEAST 48-HOURS PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES.
- THESE PLANS MAY BE SUBJECT TO REVIEW AND/OR REVISION BY THE OWNER IF CONSTRUCTION HAS NOT COMMENCED WITHIN 12 MONTHS FROM THE DATE OF APPROVAL BY THE DISTRICT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES ONSITE, OFFSITE AND ADJACENT UTILITIES, FACILITIES AND PROPERTIES.
- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL SUBSTRUCTURES AND TO CONDUCT HIS OPERATIONS IN A MANNER SO AS TO PREVENT DAMAGE TO SAID SUBSTRUCTURES. IN THE EVENT OF SUBSTRUCTURE DAMAGE, THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE FOR THE REPAIR AND/OR REPLACEMENT OF SAID SUBSTRUCTURE(S).
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME FULL AND COMPLETE RESPONSIBILITY FOR THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS INCLUDING BUT NOT LIMITED TO OSHA, AQMD, COUNTY OF LOS ANGELES.
- WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC AND CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

**EROSION CONTROL NOTES**

- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AN MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED IN THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAIN WATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. AND / OR ADJACENT AREAS ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA (THE LATEST REVISED EDITION) MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY COUNTY INSPECTORS):

- CA001 - DEWATERING OPERATIONS
- CA002 - PAVING OPERATIONS
- CA003 - STRUCTURE CONSTRUCTION AND PAINTING
- CA010 - MATERIAL DELIVERY AND STORAGE
- CA011 - MATERIAL USE
- CA012 - SPILL PREVENTION AND CONTROL
- CA020 - SOLID WASTE MANAGEMENT
- CA021 - HAZARDOUS WASTE MANAGEMENT
- CA022 - CONTAMINATED SOIL MANAGEMENT
- CA023 - CONCRETE WASTE MANAGEMENT
- CA030 - VEHICLE AND EQUIPMENT CLEANING
- CA031 - VEHICLE AND EQUIPMENT FUELING
- CA032 - VEHICLE AND EQUIPMENT MAINTENANCE
- CA040 - EMPLOYEE/SUBCONTRACTOR TRAINING
- ESC01 - SCHEDULING
- ESC02 - PRESERVATION OF EXISTING VEGETATION
- ESC10 - SEEDING AND PLANTING
- ESC11 - MULCHING
- ESC20 - GEOTEXTILES AND MATS
- ESC21 - DUST CONTROL
- ESC22 - TEMPORARY STREAM CROSSING
- ESC23 - CONSTRUCTION ROAD STABILIZATION
- ESC24 - STABILIZED CONSTRUCTION ENTRANCE
- ESC30 - EARTH DIKE
- ESC31 - TEMPORARY DRAINS AND SWALES
- ESC32 - SLOPE DRAIN
- ESC40 - OUTLET PROTECTION
- ESC41 - CHECK DAMS
- ESC42 - SLOPE ROUGHENING/TERRACING
- ESC50 - SILT FENCE
- ESC51 - STRAW BALE BARRIERS
- ESC52 - SAND BAG BARRIER
- ESC53 - BRUSH OR ROCK FILTER
- ESC54 - STORM DRAIN INLET PROTECTION
- ESC55 - SEDIMENT TRAP
- ESC56 - SEDIUMT BASIN

**UTILITY GENERAL NOTES**

- ALL WORK DETAILED ON THIS PLAN, EXCEPTED AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION; THE UNIFORM PLUMBING CODE, LATEST EDITION AND THE CITY OF DUARTE DEPT. OF PUBLIC WORKS AND THE APPROPRIATE UTILITY AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OR REQUIREMENTS OF PERMITS APPLICABLE TO THIS PROJECT.
- THE CONTRACTOR SHALL CAREFULLY COORDINATE THIS CONSTRUCTION WITH THE HORIZONTAL AND VERTICAL LOCATIONS OF OTHER PROPOSED AND EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO, GAS, ELECTRIC, STORM DRAIN, TELECOMMUNICATIONS AND CABLE TELEVISION.
- ELEVATIONS ARE IN FEET PER THE BENCHMARK SHOWN ON SHEET C101.
- NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF ON-LINE ENGINEERING AND/OR PBWS ARCHITECTS.
- NO UTILITY INTERRUPTIONS SHALL BE PERMITTED UNLESS PRECEDED BY A 21 DAY ADVANCE WRITTEN REQUEST FOR UTILITY INTERRUPTION, WHICH WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE CITY OF DUARTE AND THE APPROPRIATE UTILITY AGENCY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE CITY DUARTE (OR APPROPRIATE UTILITY AGENCY) FOR LOCATING, PURGING, CAPPING AND/OR RELOCATING EXISTING UTILITY SYSTEMS AS NECESSARY AND AS REQUIRED TO COMPLETE THIS PROJECT.
- COORDINATE WITH THE DEMOLITION CONTRACTOR AS TO THE PORTION OF EXISTING MAINS THAT ARE TO BE REMOVED.

**WATER MANS**

- PROVIDE TRACER WIRE FOR ALL NON-METALLIC UNDERGROUND WATER LINES, INCLUDING MAINS AND LATERALS. PROVIDE MARKER TAPE ONE (1) FOOT ABOVE UNDERGROUND WATER MAINS.
- LATERALS BETWEEN MAINS AND BUILDINGS SHALL BE PVC SCHEDULE 80 AND CONFORM TO AWWA C900 UNLESS OTHERWISE RECOMMENDED BY CORROSION ENGINEER/GEOTECHNICAL ENGINEER.
- METERING:
  - (A) COORDINATE METER TYPES AND LOCATIONS WITH THE WATER AGENCY.
  - (B) COORDINATE WITH LANSCAPE DRAWINGS ABOUT THE NEED FOR SEPARATE METERING.
  - (C) FURNISH AND INSTALL ALL ENCLOSURES, VALVING, PIPING, APPURTENANCES AND THE METERS.
  - (D) ALL METERS SHALL BE READABLE FROM THE EXTERIOR, WITHOUT THE NEED TO ENTER THE BUILDING.
- FIRE PROTECTION:
  - (A) OUTSIDE PROTECTION INCLUDING WATER DISTRIBUTION VALVES AND HYDRANTS SHALL COMPLY WITH NFPA STANDARD NO. 24 "PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES", LATEST EDITION.
  - (B) HYDRANTS SHALL CONFORM TO AWWA STANDARDS C502 WET BARREL, AND NFPA 24. VALVES SHALL CONFORM TO AWWA STANDARDS C500. INSTALLATION SHALL CONFORM TO AWWA 17.
  - (C) HYDRANTS SHALL BE TESTED IN ACCORDANCE WITH NFPA 291 AND PAINTED TO INDICATE THE GPM MEASURED. THE TESTING SHALL BE COMPLETED PRIOR TO INSPECTION.
- COORDINATE ALL WORK CONCERNING THE NEW WATER DISTRIBUTION SYSTEM FOR THIS FACILITY WITH THE CITY AND THE WATER AGENCY.
- ALL NEW WORK SHALL BE TESTED VALVE TO VALVE AT 200 PSI FOR FOUR HOURS. CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL ANY NECESSARY THRUST BLOCKS IN ACCORDANCE WITH DETAILS ON SHEET
- DISINFECTION: CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ASSURE SANITARY INSTALLATION. HE SHALL ENDEAVOR TO KEEPALL DIRT, RODENTS, INSECTS ETC. AWAY FROM WATERWAY SURFACES. VALVES SHALL BE KEPT CLOSED AND SHALL BE KEPT CLOSED AT ALL OTHER TIMES UNTIL AFTER PRESSURE TEST DISINFECTION, FLUSHING, AND BACTERIOLOGICAL TEST HAVE BEEN PASSED. CONTACT THE WATER AGENCY FOR BACTERIOLOGICAL TEST AND SAMPLING REQUIREMENTS. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA C651.
- CONTRACTOR SHALL MAKE ARRANGEMENTS TO ADJUST VALVE BOXES, FIRE HYDRANT BREAKOFF FLANGES, METER BOXES ETC. TO FINISH GRADE AT TIMES WHEN FINISH GRADES ARE ESTABLISHED BY OTHERS AT NO COST TO THE OWNER.
- UNDERGROUND SERVICE ALERT REQUIRES THE CONTRACTOR TO PROVIDE AN UPDATE NOTIFICATION EVERY 15 DAYS THAT CONSTRUCTION IS STILL IN PROGRESS.
- UNDERGROUND SERVICE ALERT REQUIRES THAT PROPOSED CONSTRUCTION AREA BE OUTLINED IN WHITE PAINT, INCLUDING WATER MAIN SERVICE CONNECTIONS AND FIRE HYDRANTS.
- THE CONTRACTOR SHALL REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) REGARDING SAFETY ORDERS.
- THE CONTRACTOR SHALL PROVIDE ENGINEER WITH AS-BUILT PLANS OF THE WATER SYSTEM FOR THIS PROJECT AFTER CONSTRUCTION AND BEFORE FINAL APPROVAL IS GRANTED.

**SEWER MANS**

- PROVIDE TRACER WIRE FOR ALL NON-METALLIC UNDERGROUND SEWER LINES, INCLUDING MAINS AND LATERALS. PROVIDE MARKER TAPE ONE (1) FOOT ABOVE ALL SANITARY SEWAGE LINES.
- UNLESS OTHERWISE NOTED ON PLANS, SEWER MAINS AND LATERALS SHALL BE PVC (SDR 35) PER ASTM D-3034.
- ALL WORK CONCERNING NEW AND EXISTING SANITARY SEWER SYSTEM SHALL BE COORDINATED BY THE CONTRACTOR WITH THE CITY OF DUARTE. ALL DOWNSTREAM FACILITIES INCLUDING MANHOLES AND OTHER APPURTENANCES SHALL BE COMPLETED BEFORE THE FACILITY IS INSPECTED AND ACCEPTED PRIOR TO OCCUPANCY.
- ALL JOINTS BETWEEN CAST IRON PIPE AND PVC PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "D" (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS SECTION 208-2.
- SEWERS SHALL BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

**NOTICE TO CONTRACTORS**

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- AB 73 REQUIRES EVERY PERSON PLANNING TO CONDUCT EXCAVATION TO NOTIFY A REGIONAL NOTIFICATION CENTER AT LEAST TWO DAYS PRIOR TO COMMENCING WORK. A VERIFICATION NUMBER WILL BE GIVEN UPON SUCH NOTIFICATION WITHOUT WHICH ANY PERMIT OR DIRECTIVE GIVING PERMISSION TO EXCAVATE SHALL BE INVALID. VERIFICATION NUMBERS EXPIRE WITHIN 14 DAYS. FOR BEST COMMUNICATION, PERSONS PERFORMING EXCAVATION SHOULD MEET THE UTILITY COMPANIES AT THE JOB SITE. FOR MORE INFORMATION, YOU CAN CONTACT THE LOCAL REGIONAL INFORMATION CENTER.
- "CONTRACTOR SHALL TAG TREES TO BE SAVED WITH PLASTIC OR VINYL TAPE TIED TO THE TREE CALIPER. CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE TO REMAIN FROM ROOT COMPACTION AND ANY OTHER DAMAGE (WITH BARRIER OF METAL POLES MAXIMUM 8 FEET ON CENTER WITH PLASTIC NETTING) AT A MINIMUM OF 10 FOOT DIAMETER FROM OUTSIDE OF THE TREE'S TRUNK PRIOR TO THE START OF ANY CONSTRUCTION OPERATIONS. WHERE TREE DRIP LINES ARE GREATER THAN 10 FEET FROM THE TREE'S TRUNK, LOCATE BARRIER FENCING AT THE DRIP LINE OF THE TREE. THE CONTRACTOR SHALL NOT ALLOW DEBRIS FROM TREE OR STUMP REMOVAL OPERATIONS TO FALL ON OR OTHERWISE DAMAGE TREES THAT ARE NOT SCHEDULED FOR REMOVAL. PLASTIC TAPE AND BARRIER FENCING SHALL NOT BE REMOVED UNTIL PLANTING OPERATIONS AREA READ TO BEGIN AND/OR INSTRUCTED BY THE CONTRACTING OFFICER. CONTRACTOR SHALL WATER AND PRUNE TREES DURING CONSTRUCTION OPERATIONS AS NECESSARY TO KEEP HEALTHY AND THRIVING. IF ANY TREE SHOULD DIE DURING THIS PERIOD, THE CONTRACTOR SHALL REPLACE AND PLANT A TREE WITH A MINIMUM 36" BOX WITH 3" CALIPER, 16'-18' HEIGHT OF THE SAME TYPE."

UNDERGROUND SERVICE ALERT  
3030 SATURN STREET, SUITE 200  
BREA, CA 92621  
(800) 422-4133

LEGEND	
AC	ASPHALTIC CONCRETE
CAB	CRUSHED AGGREGATE BASE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
FS	FINISHED SURFACE
INV	INVERT
NG	NATURAL GROUND
PCC	PORTLAND CEMENT CONCRETE
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TW	TOP OF WALL
— W —	COLD WATER MAIN
— E —	ELECTRIC
— F —	FIRE WATER MAIN
— G —	GAS MAIN
— SS —	SANITARY SEWER



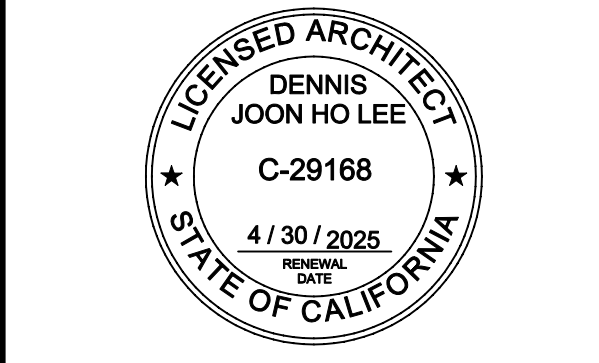
THIS PLAN WAS PREPARED UNDER THE DIRECTION OF THE BELOW SIGNED LICENSED CIVIL ENGINEER:

*Robert G. Martinez* 8-15-23  
ROBERT G. MARTINEZ, R.C.E. 54360 DATE



THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR CONSTRUCTION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.



ARCHITECT: CO-AR DESIGN, INC. 680 Brea Canyon Road, Suite 178 Diamond Bar, California 91789 Office: 909-598-0186

Dennis J. Lee, NCARB dennis@coar.design.com



RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY  
ADDRESS: 2800 E. HOLLINGWORTH ST. WEST COVINA, CA 91792

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

DATE: 8/7/2023

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

CHECKED BY: RGM

SHEET TITLE: SITE CIVIL GENERAL NOTES

PROJECT NO: 903-19

SCALE: AS SHOWN

DATE: 8/7/2023

DRAWN BY: RGM

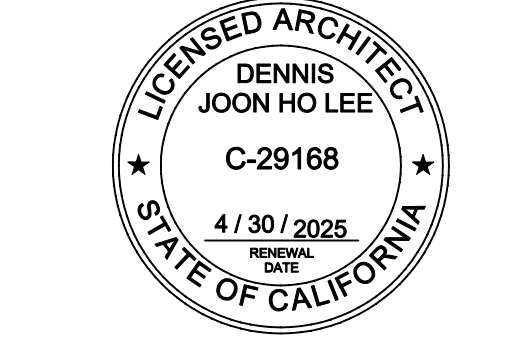
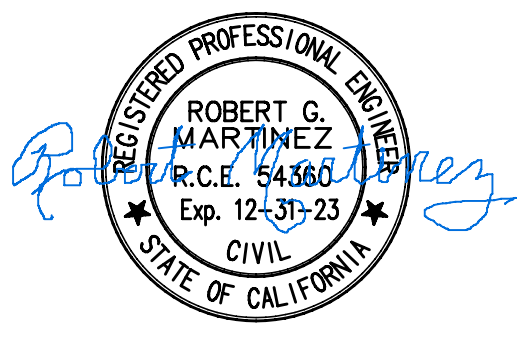
CHECKED BY: RGM



THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, REPRODUCED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OR RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.

NOTES:



ARCHITECT  
**CO-AR DESIGN, INC.**  
680 Brea Canyon Road, Suite 178  
Diamond Bar, California 91789  
Office: 909-598-0186

Dennis J. Lee, N.CARB dennisl@coar-design.com



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS:  
2800 E. HOLLINGWORTH ST.  
WEST COVINA, CA 91792

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

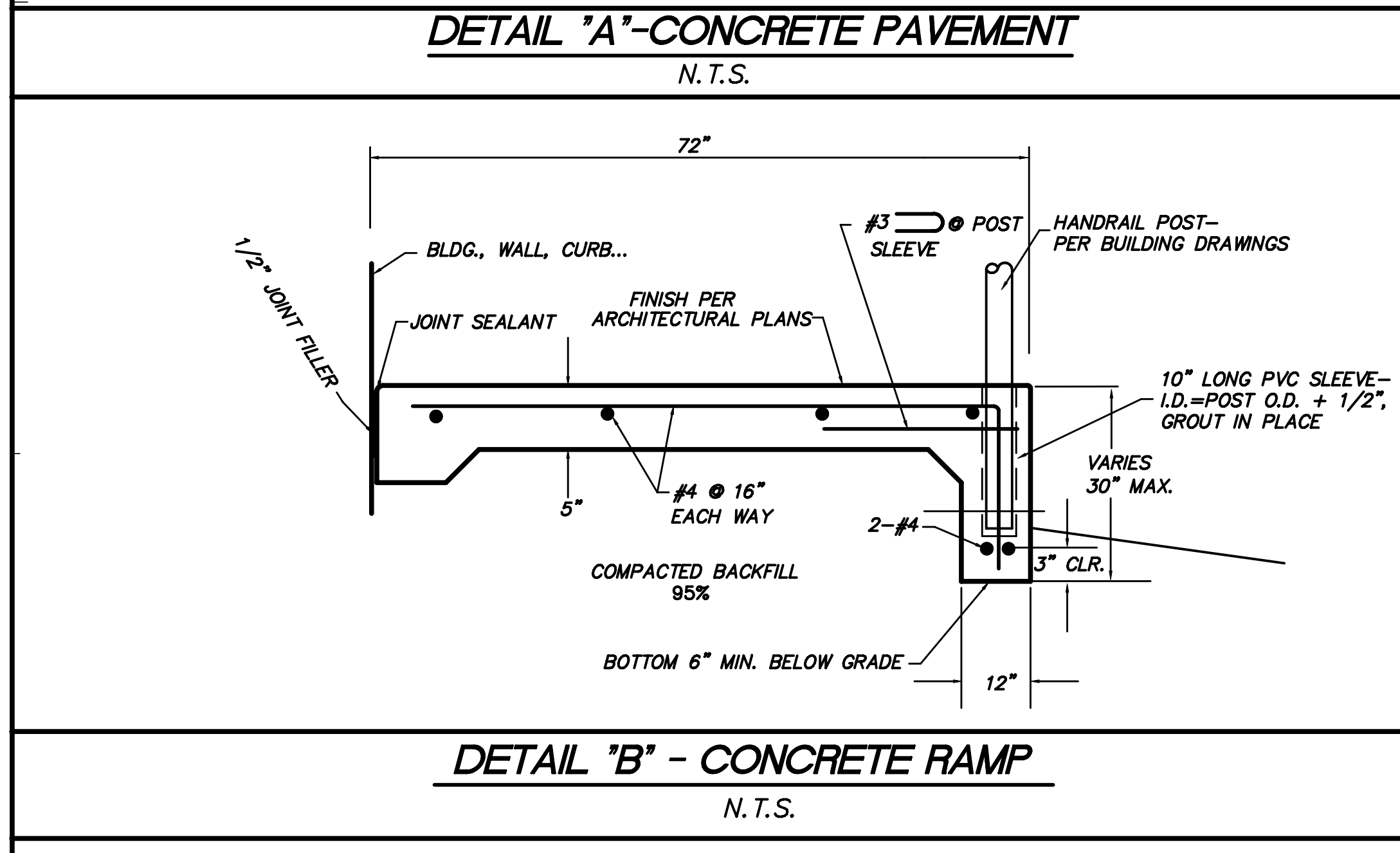
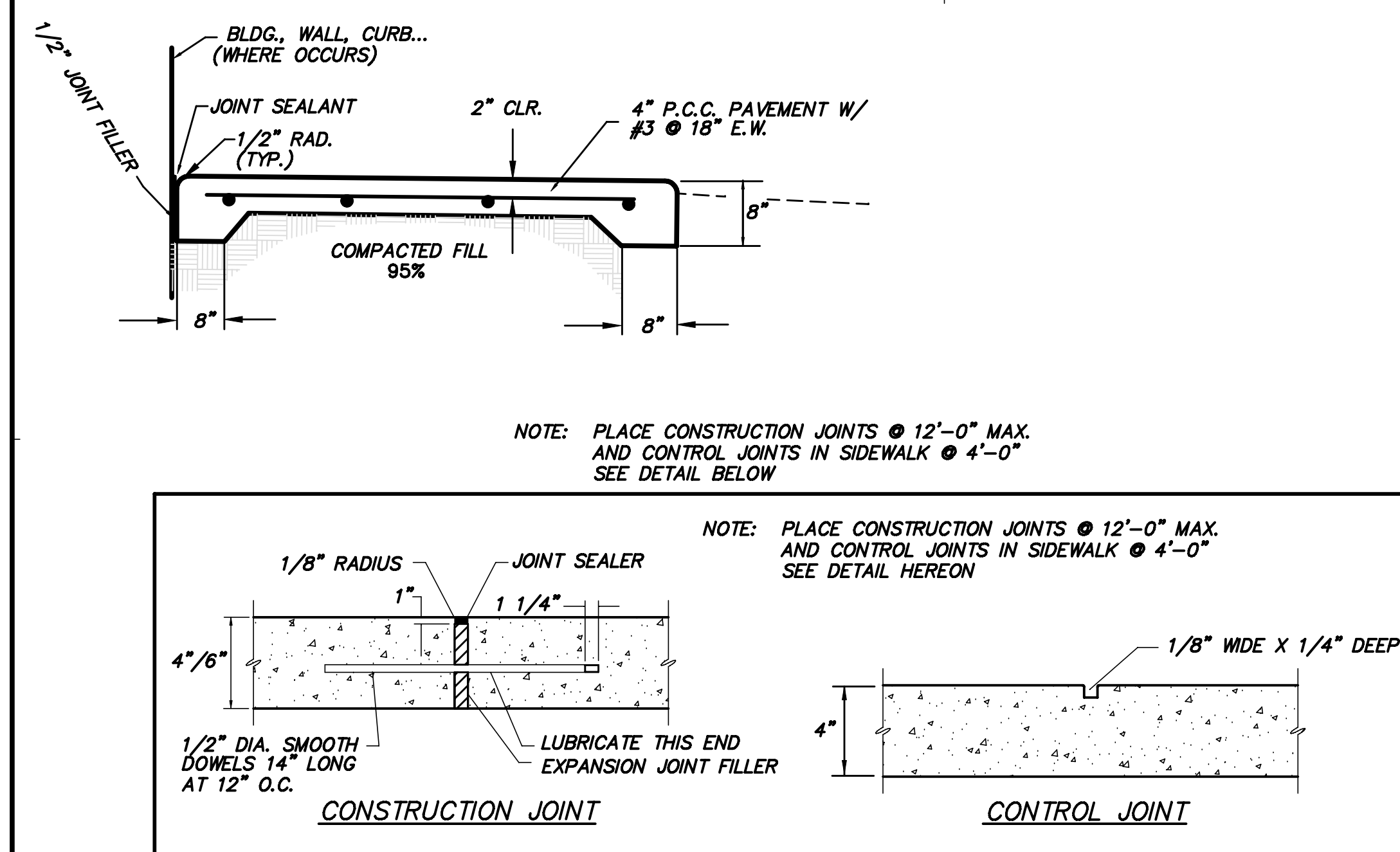
DATE: 8/15/23

PROJECT NO: 903-39  
SCALE: AS SHOWN  
DATE: 8/7/2023  
DRAWN BY: RGM  
CHECKED BY: RGM  
SHEET TITLE:

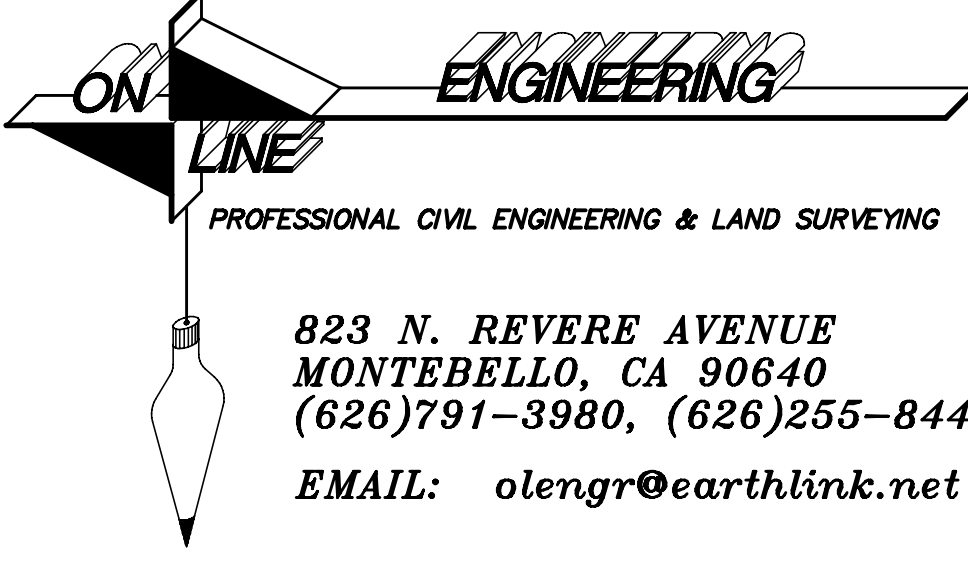
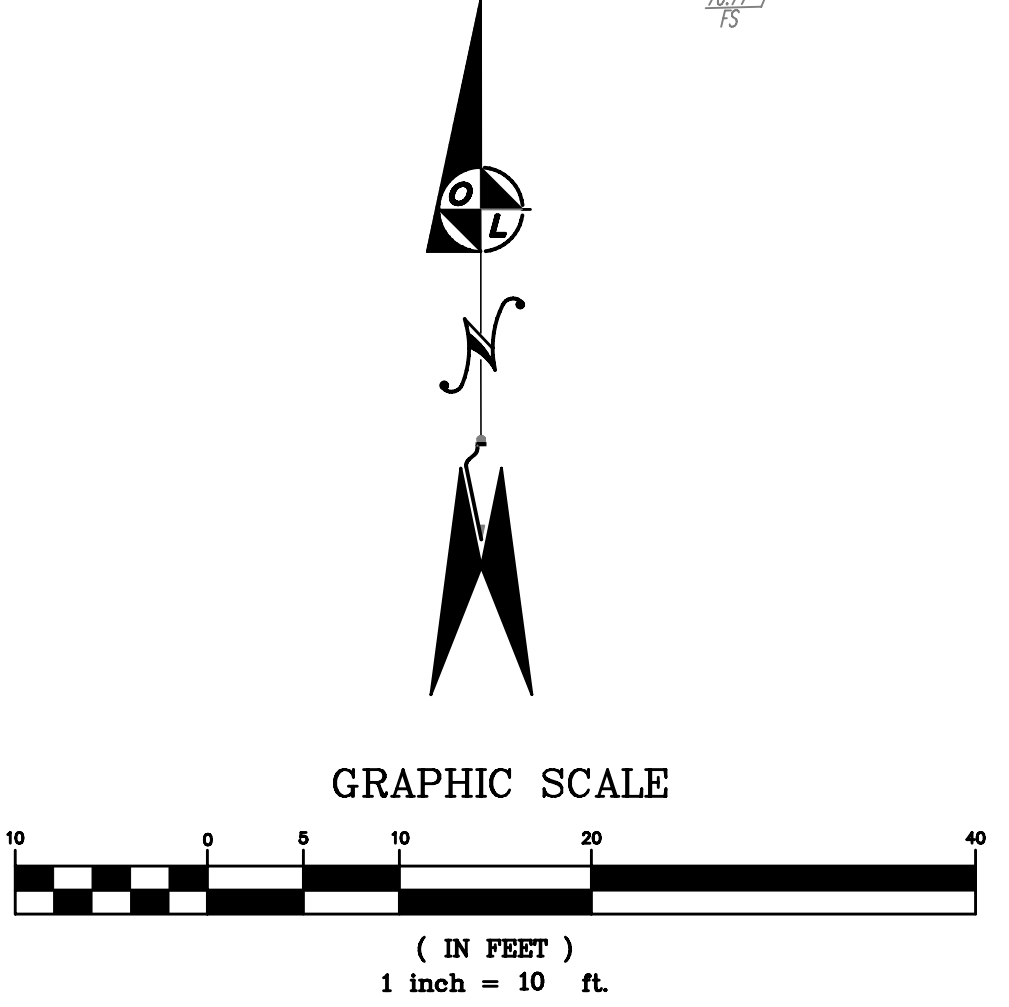
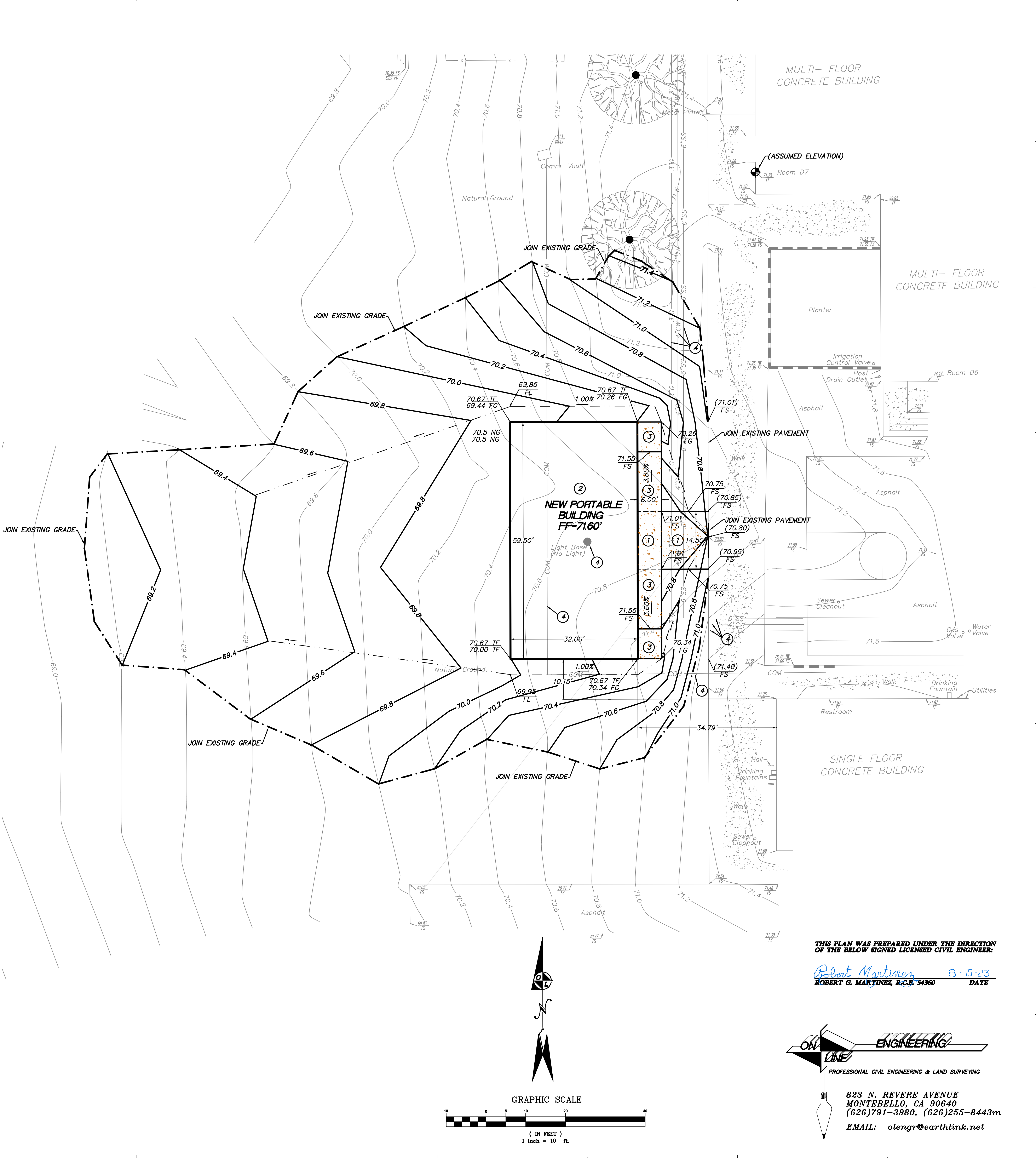
**GRADING AND DRAINAGE PLAN**

PROJECT NO: 903-39  
SCALE: AS SHOWN  
DATE: 8/7/2023  
DRAWN BY: RGM  
CHECKED BY: RGM  
SHEET TITLE:

823 N. REVERE AVENUE  
MONTEBELLO, CA 90640  
(626)791-3980, (626)255-8443m  
EMAIL: olengr@earthlink.net



- CONSTRUCTION NOTES**
- ① CONSTRUCT CONCRETE PAVEMENT PER DETAIL "A" HEREON.
  - ② NEW BUILDING PER ARCHITECTURAL PLANS.
  - ③ CONSTRUCT CONCRETE RAMP PER DETAIL "B" HEREON.
  - ④ REMOVE, RELOCATE OR PROTECT IN PLACE TO ACCOMMODATE NEW CONSTRUCTION.

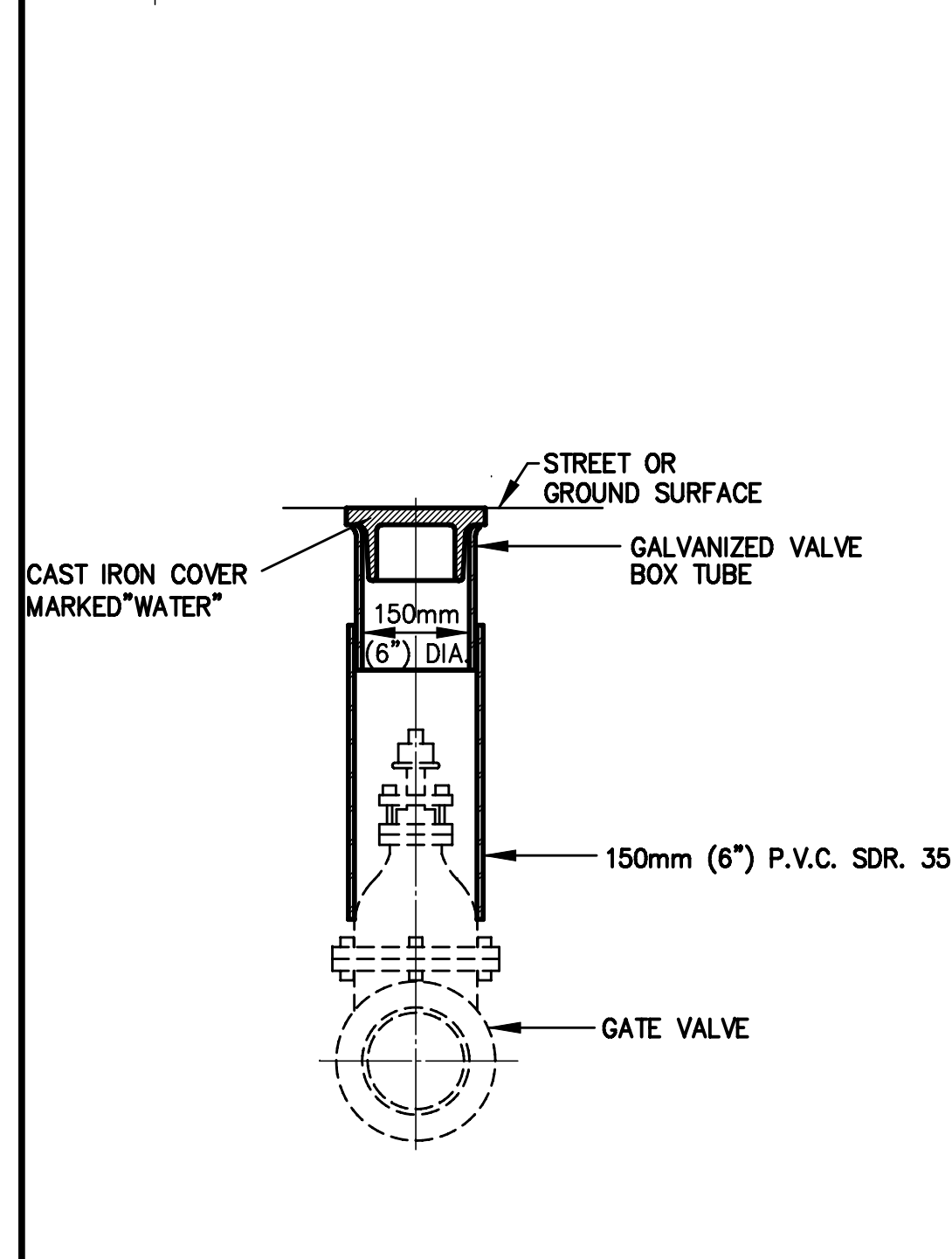
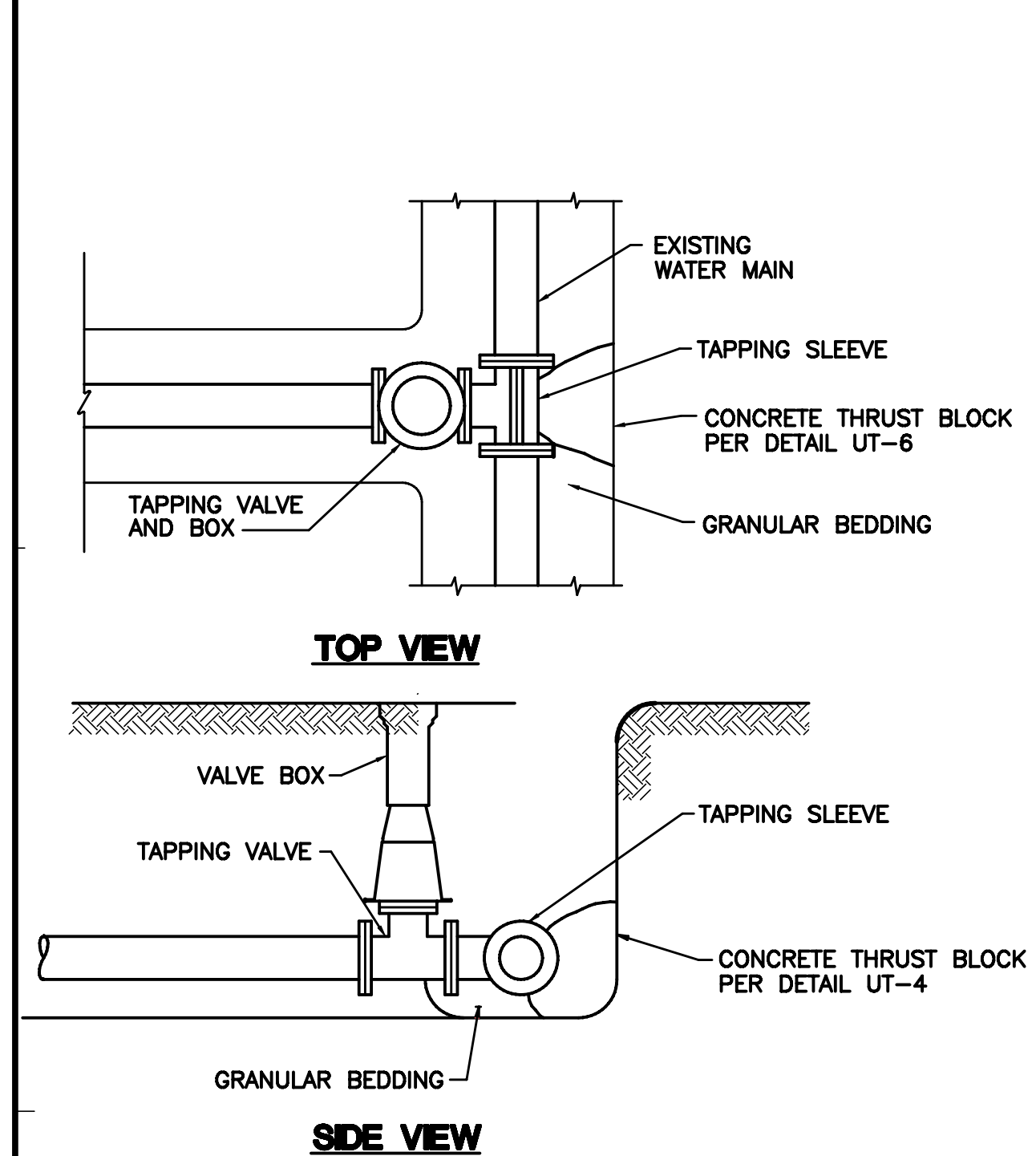


\\BMS\dwg\COAR\CONC-23 - BMS\dwg\Basic for Arch\dwg\2601994.RXD-Telesis-Relocation 2023, Monday, August 17, 2023, 3:31 PM



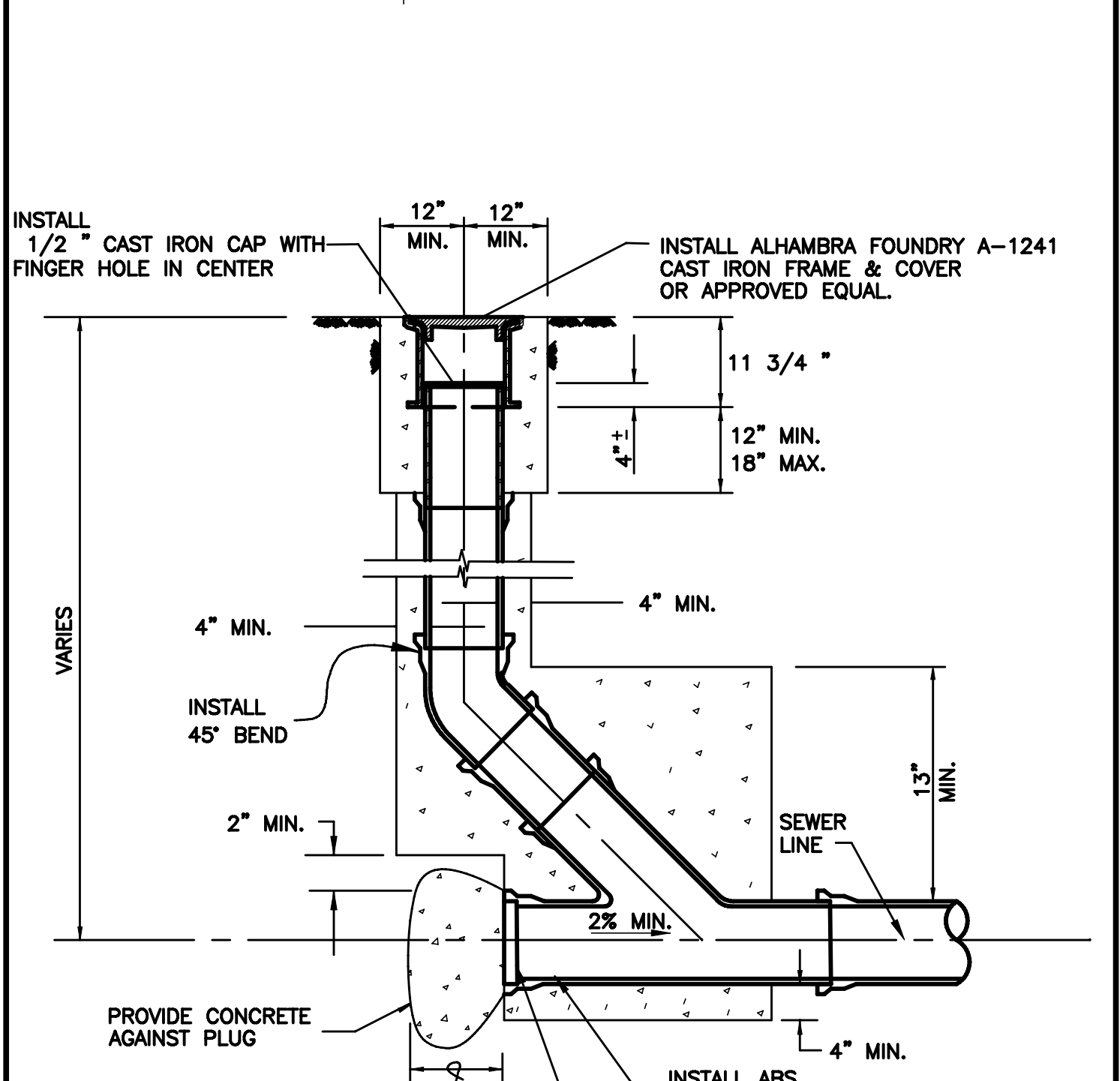
THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, REPRODUCED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OR RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.



**DETAIL "C" - HOT TAP**  
N.T.S.

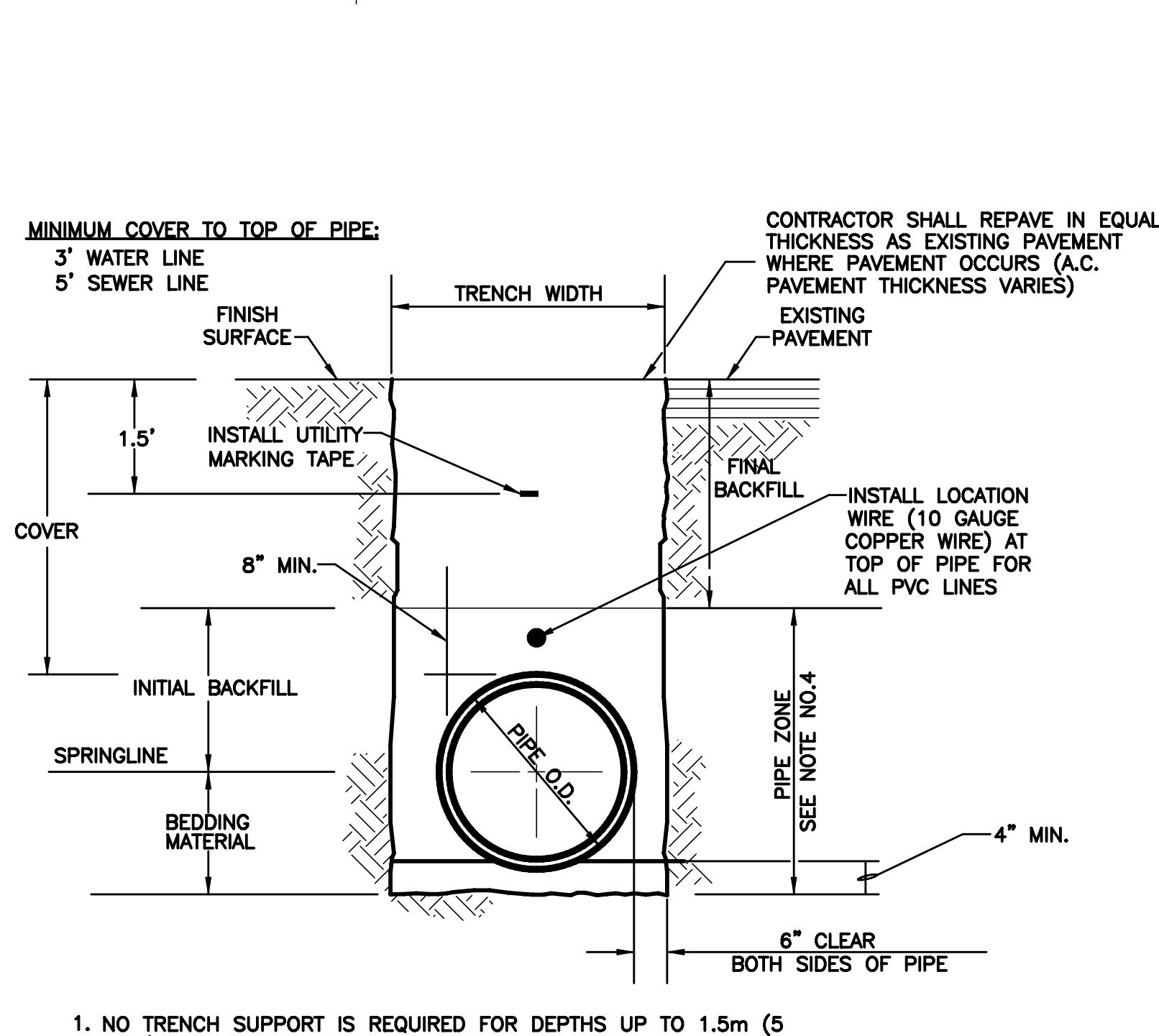
**DETAIL "D" - GATE VALVE**  
N.T.S.



**DETAIL "E" - SEWER CLEANOUT**  
N.T.S.

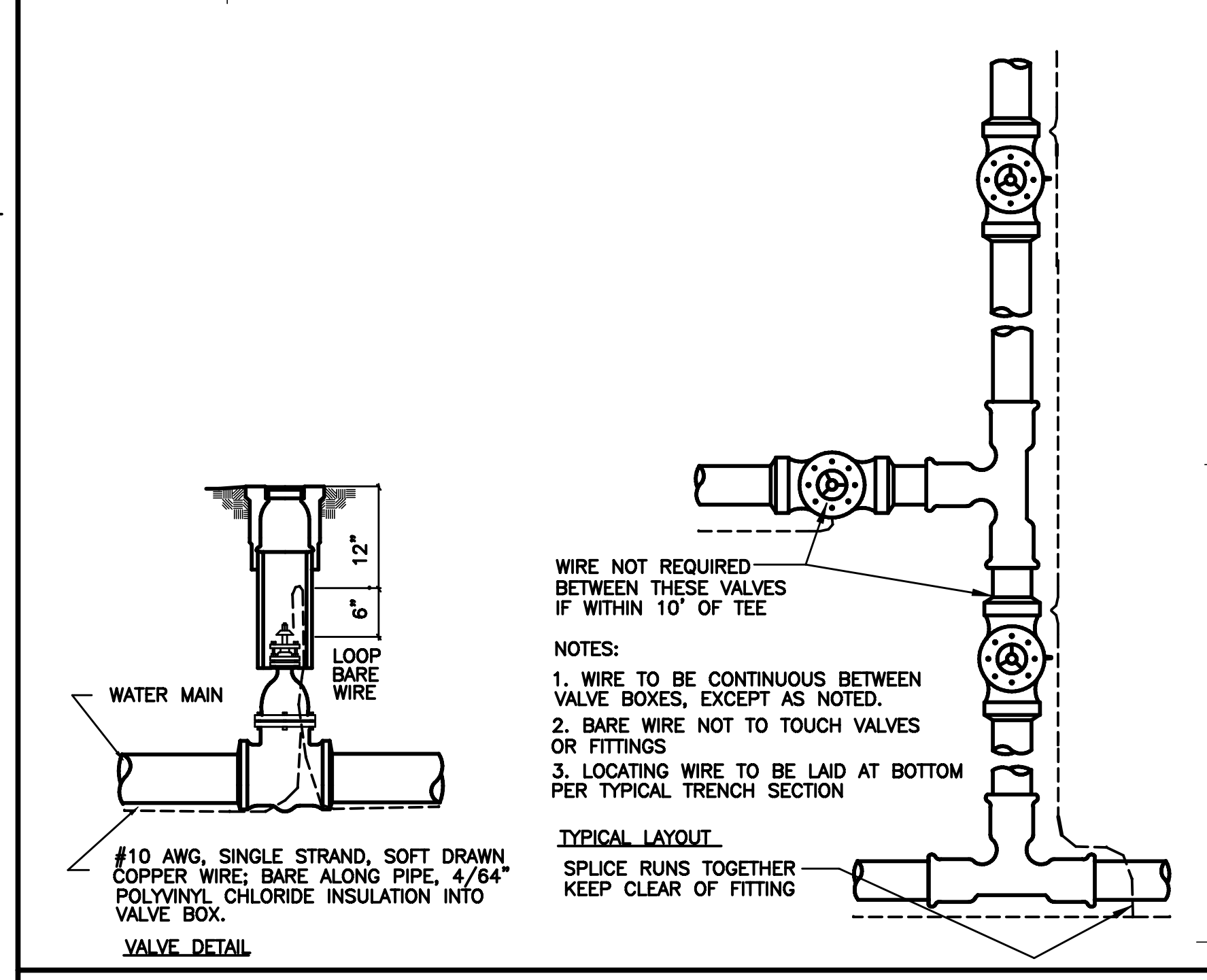
NOTES:

- PIPE AND FITTING EXCEPT AS OTHERWISE SHOWN HEREON SHALL BE OF THE SAME MATERIAL AND DIAMETER AS THE SEWER SERVICE AND MAY BE A VITRIFIED CLAY PIPE, ABS SOLID WALL PIPE, ABS COMPOSITE PIPE OR PVC PIPE. ALL PIPES MATERIALS CONFORM PER UPC (UNIFORM PLUMBING CODE).
- PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASEMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT, AND SHALL BE CLASS 420-C-2000.
- THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.

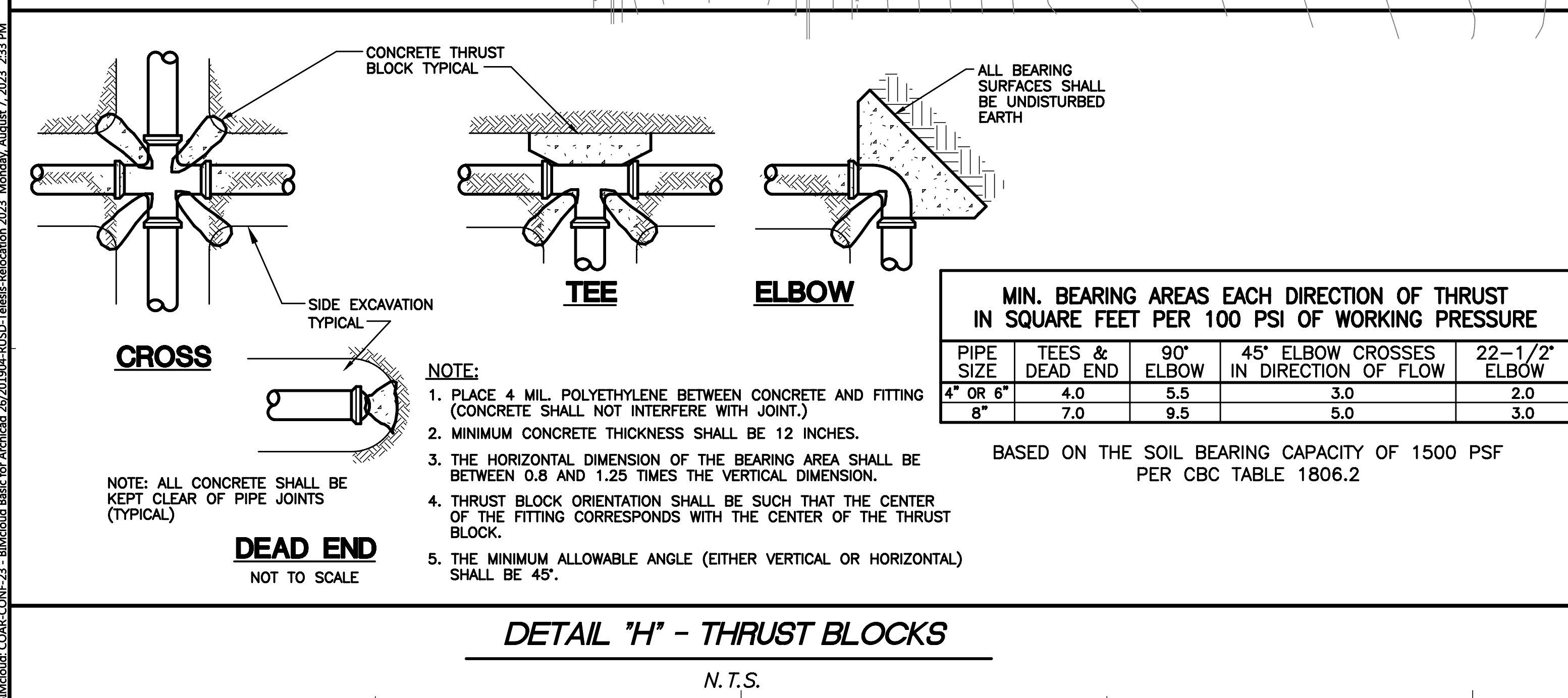
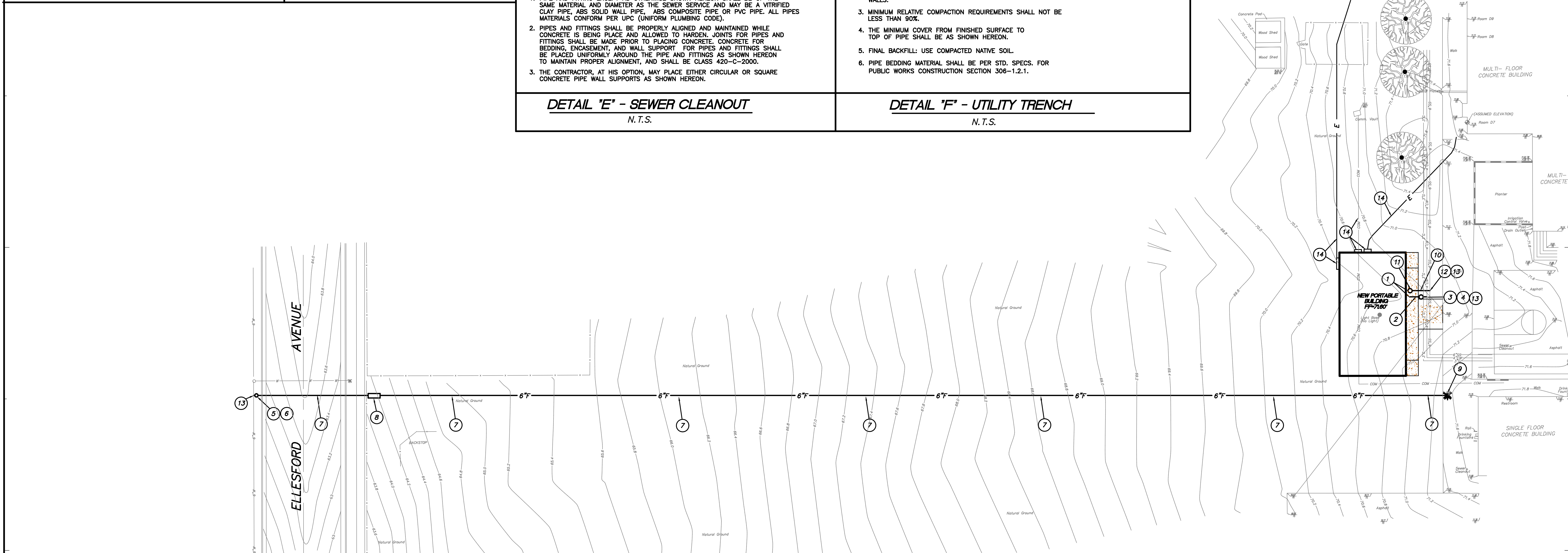


**DETAIL "F" - UTILITY TRENCH**  
N.T.S.

- NO TRENCH SUPPORT IS REQUIRED FOR DEPTHS UP TO 1.5m (5 FEET). SHORING OR SOLID SHEATHING IS REQUIRED FOR DEPTHS EXCEEDING 1.5m (5 FEET). DESIGN CALCULATIONS BY A REGISTERED CIVIL ENGINEER SHALL BE SUBMITTED.
- WHERE WET, UNSTABLE OR RUNNING SOIL IS ENCOUNTERED, SOLID SHEATHING IS REQUIRED FOR ALL VERTICAL TRENCH WALLS.
- MINIMUM RELATIVE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN 90%.
- THE MINIMUM COVER FROM FINISHED SURFACE TO TOP OF PIPE SHALL BE AS SHOWN HEREON.
- FINAL BACKFILL: USE COMPACTED NATIVE SOIL.
- PIPE BEDDING MATERIAL SHALL BE PER STD. SPECS. FOR PUBLIC WORKS CONSTRUCTION SECTION 306-1.2.1.



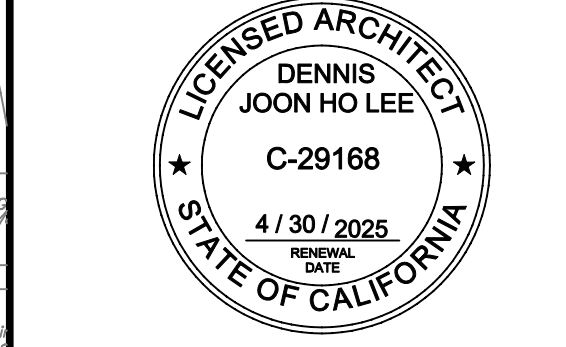
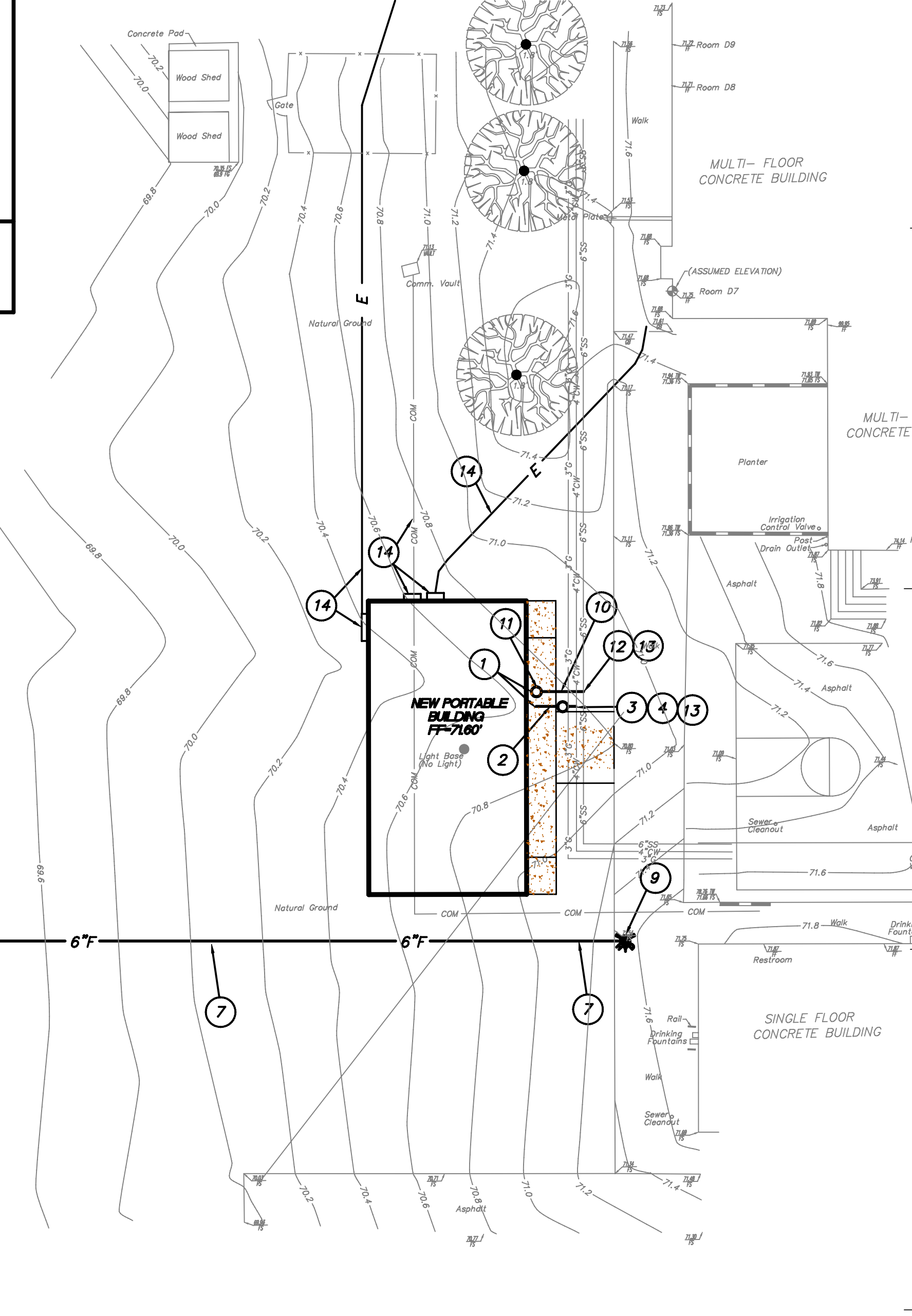
**DETAIL "H" - LOCATING WIRE FOR WATER / SEWER SERVICE**  
N.T.S.



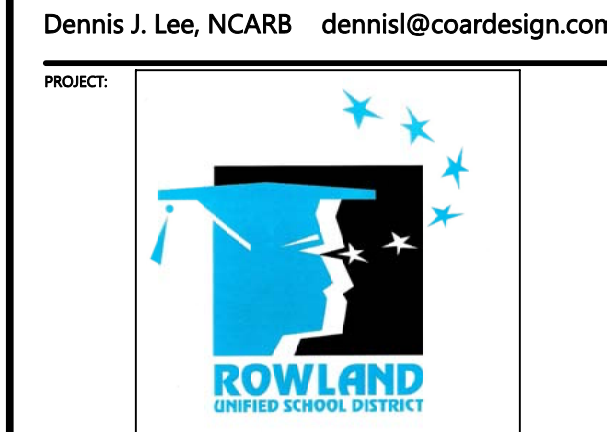
**CONSTRUCTION NOTES**

- POINT OF CONNECTION TO BUILDING (SEE BUILDING PLANS).
- CONSTRUCT 1" COPPER (TYPE L) WATER MAIN.
- CONSTRUCT 1" HOT TAP PER DETAIL "C" HEREON.
- CONSTRUCT 1" GATE VALVE PER DETAIL "D" HEREON.
- CONSTRUCT 6" HOT TAP PER DETAIL "C" HEREON.
- CONSTRUCT 6" GATE VALVE PER DETAIL "D" HEREON.
- CONSTRUCT 6" PVC (CLASS 200) PER APWA C-900 FIRE WATER MAIN.
- CONSTRUCT DOUBLE CHECK DETECTOR ASSEMBLY PER ROWLAND WATER SPECIFICATIONS. PROVIDE TAMPER SWITCH AND CONNECT TO CAMPUS ALARM SYSTEM, INCLUDING TRANSMISSION OF SIGNAL TO THE UL SUPERVISORY STATION.
- CONSTRUCT FIRE HYDRANT PER CITY STANDARDS.
- CONSTRUCT 4" ABS (SCH. 40) SEWER MAIN.
- CONSTRUCT SADDLE CONNECTION TO EXISTING SEWER MAIN.
- CONSTRUCT SEWER CLEANOUT PER DETAIL "E" HEREON.
- POINT OF CONNECTION TO EXISTING UTILITY. CONTRACTOR TO VERIFY LOCATION AND VIABILITY OF SAID POINT OF CONNECTION.
- SEE ELECTRICAL PLANS.

NOTE: SEE DETAILS "F", "G" & "H" HEREON FOR TRENCH, LOCATING WIRE, AND THRUST BLOCKS. INFORMATION



**CO-AR DESIGN, INC.**  
680 Brea Canyon Road, Suite 178  
Diamond Bar, California 91789  
Office: 909-598-0186



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

2800 E. HOLLINGWORTH ST.  
WEST COVINA, CA 91792

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

DATE: 8/15/23

PROJECT NO: 903-39

SCALE: AS SHOWN

DATE: 8/15/2023

DRAWN BY: RGM

CHECKED BY: RGM

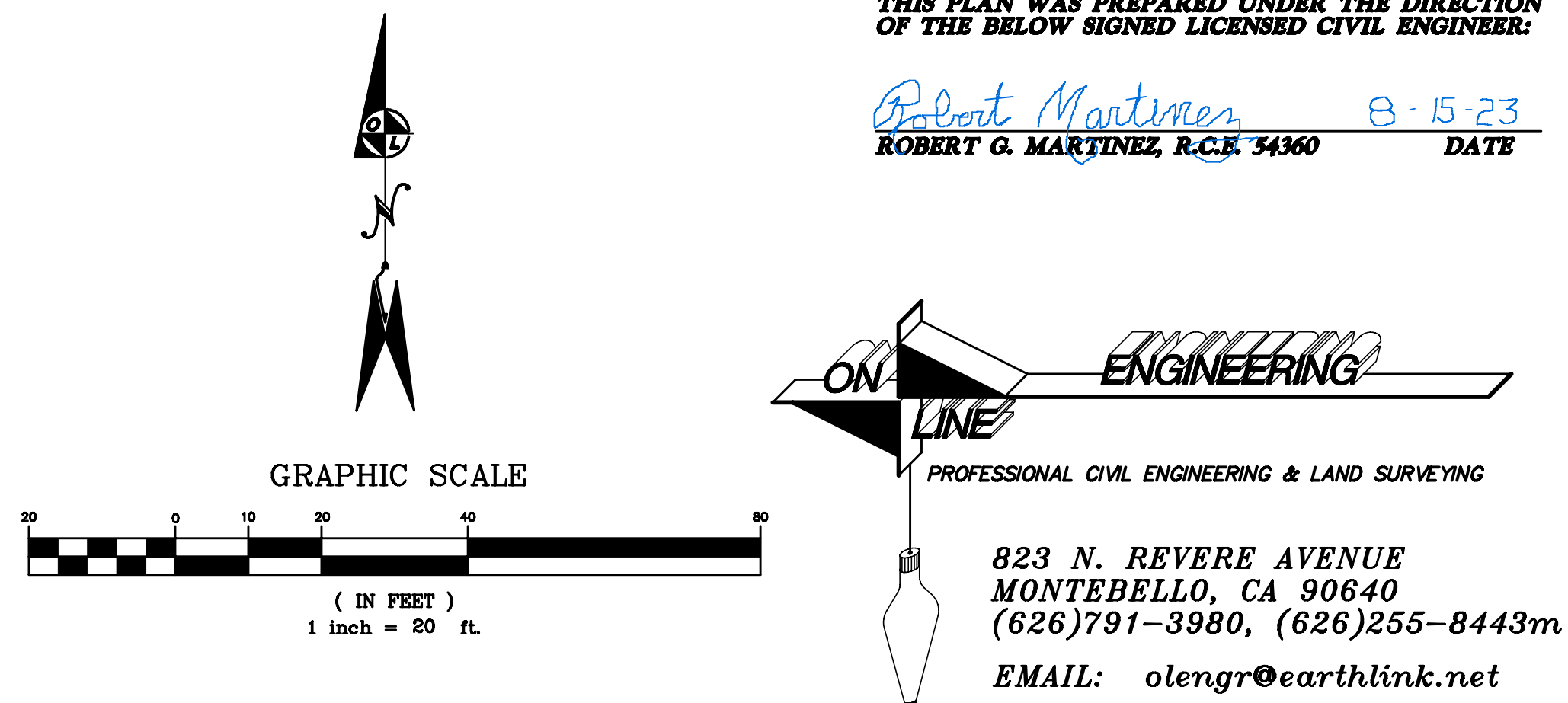
SHEET TITLE: SITE UTILITY PLAN (WATER AND SEWER)

**SITE UTILITY PLAN (WATER AND SEWER)**

SHEET NO: **C-3**

THIS PLAN WAS PREPARED UNDER THE DIRECTION OF THE BELOW SIGNED LICENSED CIVIL ENGINEER:

*Robert G. Martinez* 8-15-23  
ROBERT G. MARTINEZ, R.C.E. 54360 DATE



823 N. REVERE AVENUE  
MONTEBELLO, CA 90640  
(626)791-3980, (626)255-8443m  
EMAIL: olengr@earthlink.net



























## ELECTRICAL SYMBOLS

■	ELECTRICAL PANEL		
—	CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.		
----	CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.		
- - - - -	EXISTING CONDUIT WITH WIRES.		
A-1, 3, 5	HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5.		
A-1, 2, 3	HOMERUN TO PANEL "A", CIRCUITS A-1, A-2, & A-3.		
— / — / —	3/4"C, 2#12 THWN-CU & 1#12G.	— / — / —	3/4"C, 3#12 THWN-CU & 1#12G.
— / — / —	3/4"C, 4#12 THWN-CU & 1#12G.	— / — / —	3/4"C, 5#12 THWN-CU & 1#12G.
— / — / —	3/4"C, 6#12 THWN-CU & 1#12G.	— DC —	1/2"C WITH LIGHTING DIMMING CABLE, 2#16
— LV —	CONTROL CABLE, CAT-5E DATA CABLE WITH JACK, PLENUM TYPE.		
1"C, 3#6	OTHER CONDUIT AND WIRE SIZE AS NOTED ON DRAWINGS.		
S <sub>ab</sub>	MULTIPLE SINGLE POLE SWITCHES IN MUTIGANG BOX. NUMBER OF LOWER CASE LETTER INDICATE NUMBER OF SWITCHES.		
S	SINGLE POLE SWITCH.	S <sub>2</sub>	TWO POLE SWITCH.
S <sub>M</sub>	HORSE POWER RATED SWITCH.	S <sub>Kab</sub>	KEYED SWITCH (2) SINGLE POLE.
H.P.	HORSEPOWER.	C.O.	CONDUIT ONLY WITH #12 PULL WIRE
N.F.	NON-FUSED.	W.P.	WEATHERPROOF.
(E)	EXISTING.	(N)	NEW.
TC	TIME CLOCK.	(R)	RELOCATE.
(XR)	DEMOLITION	(RR)	REMOVE & REINSTALL
①	REFERENCE KEYED NOTE.		

## GENERAL NOTES

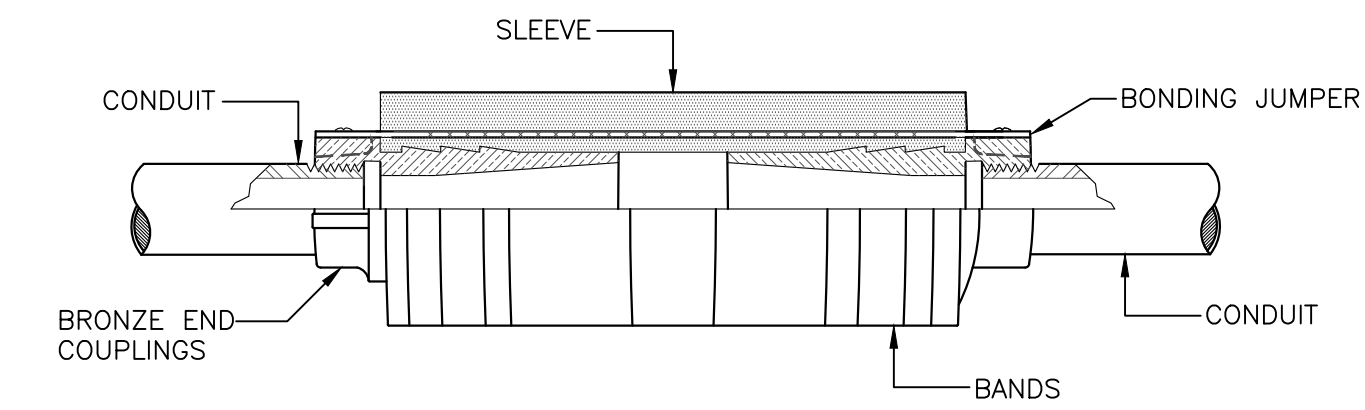
- THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIAL FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
- WORK INCLUDES ALL LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES NECESSARY FOR AND INCIDENTAL TO PERFORMING ALL OPERATIONS IN CONNECTION WITH FURNISHING, DELIVERY AND INSTALLATION OF ELECTRICAL SYSTEM, COMPLETE, AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
- CONSTRUCT PROJECT IN ACCORDANCE WITH FOLLOWING CODES: REGULATIONS OF STATE AND LOCAL FIRE MARSHAL; NATIONAL ELECTRIC CODE, NATIONAL FIRE PROTECTION ASSOCIATION, EDITION IN FORCE; LOCAL CODES AND ORDINANCES; TITLE 19, 21 AND 24 CALIFORNIA ADMINISTRATIVE CODE.
- PERMITS, FEES AND INSPECTIONS: OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED BY ANY CONSTITUTED AUTHORITY HAVING JURISDICTION INCLUDING UTILITIES. ARRANGE AND PAY FOR ALL REQUIRED INSPECTIONS OR EXAMINATIONS AND DELIVER CERTIFICATES OF INSPECTION TO ARCHITECT.
- RECORD DRAWINGS: ON COMPLETION OF WORK, OBTAIN ONE SET OF XEROX VELLUMS FROM ARCHITECT AT COST OF PRINTING, AND NOTE NEATLY IN SCALE ALL CHANGES ON RECORD SET. DELIVER COMPLETE SET OF VELLUMS TOGETHER WITH ONE SET OF BLUELINE PRINTS TO ARCHITECT TOGETHER WITH CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER. INCORRECT, NON-LEGIBLE OR NON-REPRODUCIBLE DRAWINGS WILL NOT BE ACCEPTED.
- SUBMIT A LIST OF MATERIALS AND EQUIPMENT MANUFACTURERS THAT CONTRACTOR INTENDS TO USE. SUBMIT SHOP DRAWINGS FOR: SWITCHBOARDS, PANELBOARDS, LIGHT FIXTURES, TRANSFORMERS AND DISCONNECT SWITCHES.
- THE TERM "PROVIDE" USED ON DRAWINGS SHALL BE CONSIDERED TO MEAN "FURNISH AND INSTALL".
- BEFORE PROCEEDING WITH WORK CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SIZES AND ASSUME ALL RESPONSIBILITY FOR FITTING OF MATERIALS AND EQUIPMENT TO OTHER PARTS OF EQUIPMENT AND TO STRUCTURE. WHERE APPARATUS AND EQUIPMENT HAVE BEEN INDICATED ON DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF CLASS INDICATED. CAREFULLY CHECK DRAWINGS AND SEE THAT EQUIPMENT WILL FIT INTO SPACES PROVIDED.
- LOCATIONS OF CONDUITS, OUTLETS, APPARATUS AND EQUIPMENT INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND SHALL BE CHANGED TO MEET ARCHITECTURAL AND STRUCTURAL CONDITIONS AS REQUIRED.
- BE CAUTIONED THAT DIAGRAMS SHOWING ELECTRICAL CONNECTIONS ARE DIAGRAMMATIC ONLY AND MUST NOT BE USED FOR OBTAINING LINEAL RUNS OF WIRING OR CONDUIT. WIRING DIAGRAMS DO NOT NECESSARILY SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT.
- EXTRA WORK OR COSTS TO THIS CONTRACTOR DUE TO OTHER CONTRACTORS OR TRADES SHALL BE ADJUSTED BETWEEN THIS CONTRACTOR AND OFFENDING CONTRACTOR AT NO EXTRA COST TO OWNER. NOTIFY ARCHITECT BEFORE SUCH EXTRA WORK IS DONE.
- WHERE EQUIPMENT IS MOUNTED ON VIBRATION ISOLATORS, USE FLEXIBLE CONNECTIONS TO REDUCE TRANSMISSION OF NOISE.
- WHERE CONDUITS PASS THROUGH SLEEVES IN INTERIOR WALLS, FLOORS, OR CEILINGS, COMPLETELY FILL SPACE BETWEEN EACH CONDUIT AND ITS SLEEVE TO PROVIDE AN AIRTIGHT SEAL.
- USE GLASS FIBER MATERIAL, "DUXSEAL" COMPOUND, FOR ACOUSTIC SEALS.
- PROVIDE RECESSED OUTLET BOXES IN FINISHED AREAS; SECURE BOXES TO INTERIOR WALL AND PARTITION STUDS. ACCURATELY POSITION TO ALLOW FOR SURFACE FINISH THICKNESS. USE STAMPED STEEL STUD BRIDGES FOR FLUSH OUTLETS IN HOLLOW STUD WALL, AND ADJUSTABLE STEEL CHANNEL FASTENERS FOR FLUSH CEILING OUTLET BOXES. INSTALL PLASTER RINGS TO INTERFACE WITH EQUIPMENT TO BE MOUNTED THEREON.
- ALIGN WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.
- PROVIDE CAST OUTLET BOXES IN EXTERIOR LOCATIONS AND WET LOCATIONS.
- WHERE BOXES ARE INSTALLED IN FIRE RATED CEILING OR WALLS, BE RESPONSIBLE FOR PRESERVING INTEGRITY OF FIRE RATING AS REQUIRED.
- IN FIRE-RATED WALL, USE 4" SQUARE DEEP BOXES. DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES OF BOXES FOR ANY 100 SQUARE FEET OF WALL OR PARTITIONS. SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.

## GENERAL NOTES CONT.

- PROVIDE COPPER CONDUCTORS ONLY.
- PROVIDE TYPE "THHN" OR "THWN" WIRES ONLY.
- MOUNT RECEPTACLES, TELEPHONES AND J-BOXES LOCATED IN WALL AT +18" FROM FLOOR LINE TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED ON PLAN.
- MOUNT LIGHT SWITCHES, T-STATS, ETC. AT +48" UNLESS OTHERWISE NOTED.
- PROVIDE "U.L. APPROVED" OR "U.L. LISTED" ELECTRICAL EQUIPMENT ONLY.
- USE TYPE "THHN" WIRE FOR ALL LIGHT FIXTURES MOUNTED END-TO-END. USE OF STEEL ARMORED METAL-CLAD (MC) CABLES SHALL BE PERMITTED FOR DISTRIBUTION OF BRANCH CIRCUITS WHERE ROUTED IN CONCEALED LOCATIONS AND INSTALLED WITH HANGERS AND SUPPORTS SPECIFICALLY APPROVED FOR MC CABLE SYSTEMS. MC CABLE SHALL BE INDEPENDENTLY SUPPORTED AND SHALL NOT RELY ON CEILING OR WALL FRAMING FOR SUPPORT. MC CABLE SHALL NOT BE USED IN EXPOSED LOCATIONS. MC CABLE IS NOT PERMITTED FOR CIRCUIT HOMERUNS.
- PROVIDE APPROVED PADLOCKING DEVICE FOR EACH AND EVERY CIRCUIT BREAKER IN EVERY PANELBOARD. (THESE ARE IN ADDITION TO ANY HANDLE LOCKOFFS INDICATED ON PANEL SCHEDULES.)
- FURNISH, INSTALL AND CONNECT ALL LAMPS.
- PROVIDE WHEREVER NECESSARY ALL ADDITIONAL BACKING, BLOCKING AND SUPPORTS FOR LIGHT FIXTURES.
- ALL CONDUCTORS THAT ARE #10 AWG AND SMALL SHALL BE SOLID, AND ABIDE BY THE ELECTRICAL CRITERIA OF THE CALIFORNIA TRAIL COURT FACILITIES STANDARDS (CTCFS).

### SCOPE OF WORK

RELOCATION OF EXISTING PORTABLE. CONNECT EXISTING PORTABLE PANEL TO EXISTING MAIN SERVICE SWITCHBOARD VIA 45KVA TRANSFORMER.



TYPE DX

### EXPANSION/DEFLECTION FITTING

N.T.S.  
UL LISTED: E-11853; UL STANDARD: 514B.  
CSA CERTIFIED: 11584; CSA STANDARD: C22.2 NO.18.

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

NOTES:  
COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.



PACIFIC ENGINEERS GROUP  
Consulting MEPF Engineers  
1106 W. Magnolia Blvd., Suite A  
Burbank, CA 91506  
(818) 859-7081 Y23-268  
info@pacificeng.net

ARCHITECT:

CO-AR DESIGN, INC.  
680 Brea Canyon Road, Suite 178  
Diamond Bar, California 91789  
Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coar-design.com

PROJECT:



RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY

ADDRESS:

2800 E. HOLLINGWORTH ST.  
WEST COVINA, CA 91792

CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS:

1	DSA PROGRESS	8/15/23
---	--------------	---------

PROJECT NO:

201904

SCALE:

AS SHOWN

DATE:

8/7/2023

DRAWN BY:

ED / FW

CHECKED BY:

DL

SHEET TITLE:

ELECTRICAL SYMBOL LIST & GENERAL NOTES

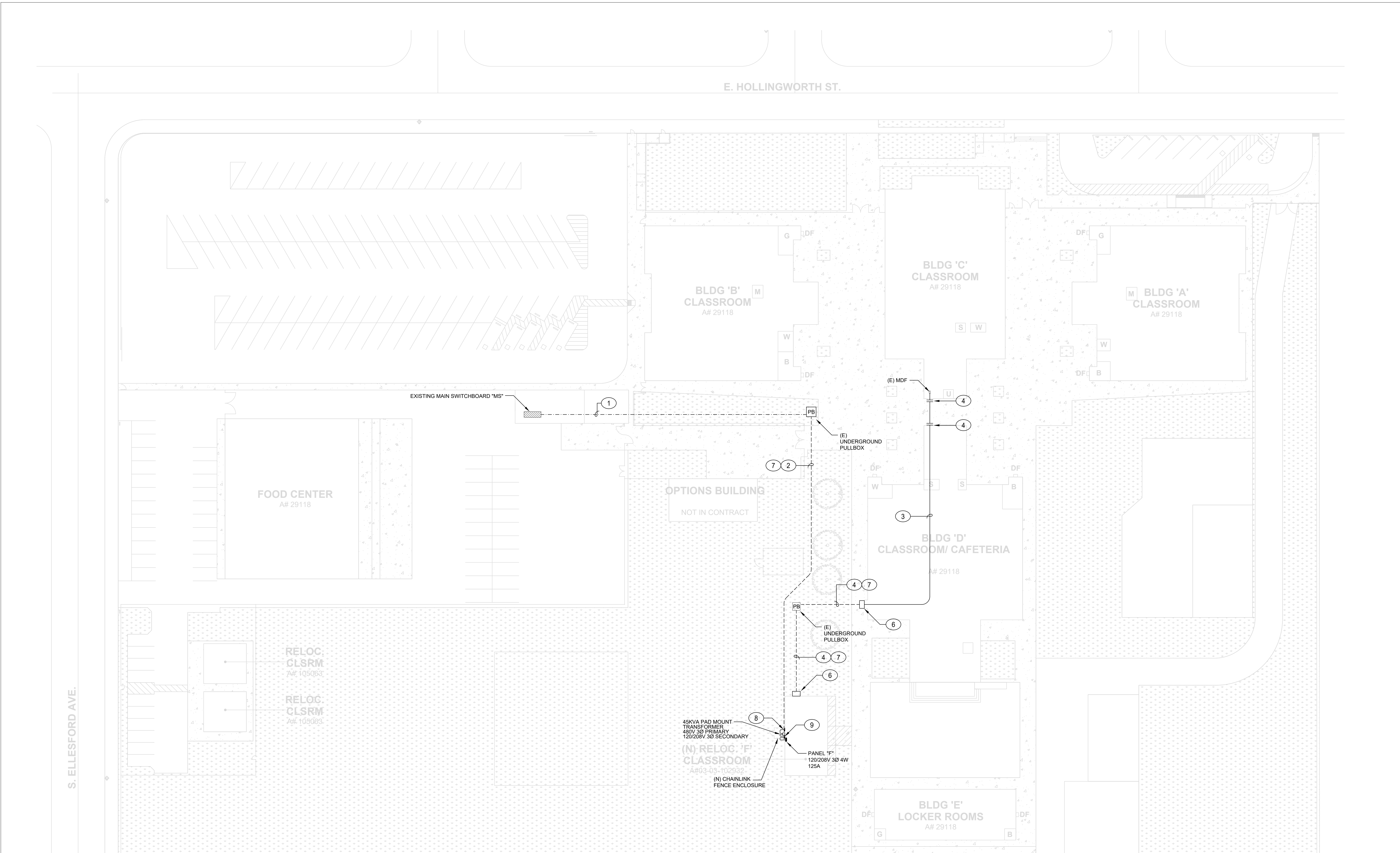
SHEET NO:

E-1.0



THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

NOTES:  
 COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.



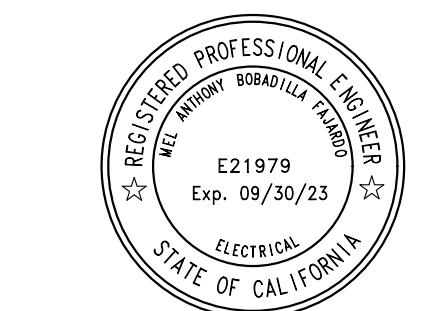
**1** ELECTRICAL SITE PLAN  
 E1.01 SCALE: 1" = 30'-0"  
 NORTH

**GENERAL NOTES**

- 1. CONDUIT RUNS ARE DIAGRAMMATIC.

**KEYED NOTES**

- ① PULL (N) 4#1, 1#6 GRD. IN (E) 2" C. FOR POWER.
- ② 2" C. (PVC) 4#1, 1#6 GRD.
- ③ RUN 1 1/2" C. (6) MULTIMODE OM4 50/125 TO NEW RELO IDF THROUGH CEILING SPACE.
- ④ RUN UNDERGROUND 1 1/2" C. (6) MULTIMODE OM4 50/125 TO NEW RELO IDF
- ⑤ PROVIDE OZ GEDNEY SEISMIC BRACING FOR CONDUITS BETWEEN BUILDINGS. SEE DETAIL 1/E-1.0
- ⑥ 16"X16"X4" PULLBOX IN NEMA 3R ENCLOSURE. MOUNT HIGH ON WALL.
- ⑦ TRENCH, COMPACT, BACKFILL AND RE-SURFACE TO MATCH EXISTING CONDITION
- ⑧ 200AS 125AF, 3P 600V RATED FUSED DISCONNECT IN NEMA 3R ENCLOSURE. PRIMARY SIDE OF TRANSFORMER.
- ⑨ 200AS 125AF, 3P 250V RATED FUSED DISCONNECT IN NEMA 3R ENCLOSURE. SECONDARY SIDE OF TRANSFORMER.



**PACIFIC ENGINEERS GROUP**  
 Consulting MEPF Engineers  
 1106 W. Magnolia Blvd., Suite A  
 Burbank, CA 91506  
 (818) 859-7081 Y23-268  
 info@pacificeng.net

ARCHITECT:  
**CO-AR DESIGN, INC.**  
 680 Brea Canyon Road, Suite 178  
 Diamond Bar, California 91789  
 Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coar-design.com



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS:  
 2800 E. HOLLINGWORTH ST.  
 WEST COVINA, CA 91792

CLIENT:  
 ROWLAND UNIFIED SCHOOL DISTRICT  
 1830 NOGALES STREET  
 ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS:  
 1 DSA PROGRESS 8/15/23

PROJECT NO: 201904  
 SCALE: AS SHOWN  
 DATE: 8/7/2023  
 DRAWN BY: ED / FW  
 CHECKED BY: DL

SHEET TITLE:  
**ELECTRICAL SITE PLAN**

SHEET NO:  
**E-2.0**

B:\MSD\COM-CONF-23 - BIM\BIM\Basic for Arch\Arch 18-07-1904-BLVD-Telesis-Reloc\Arch 2023 Monday, August 7, 2023 2:33 PM



**KEYED NOTES**

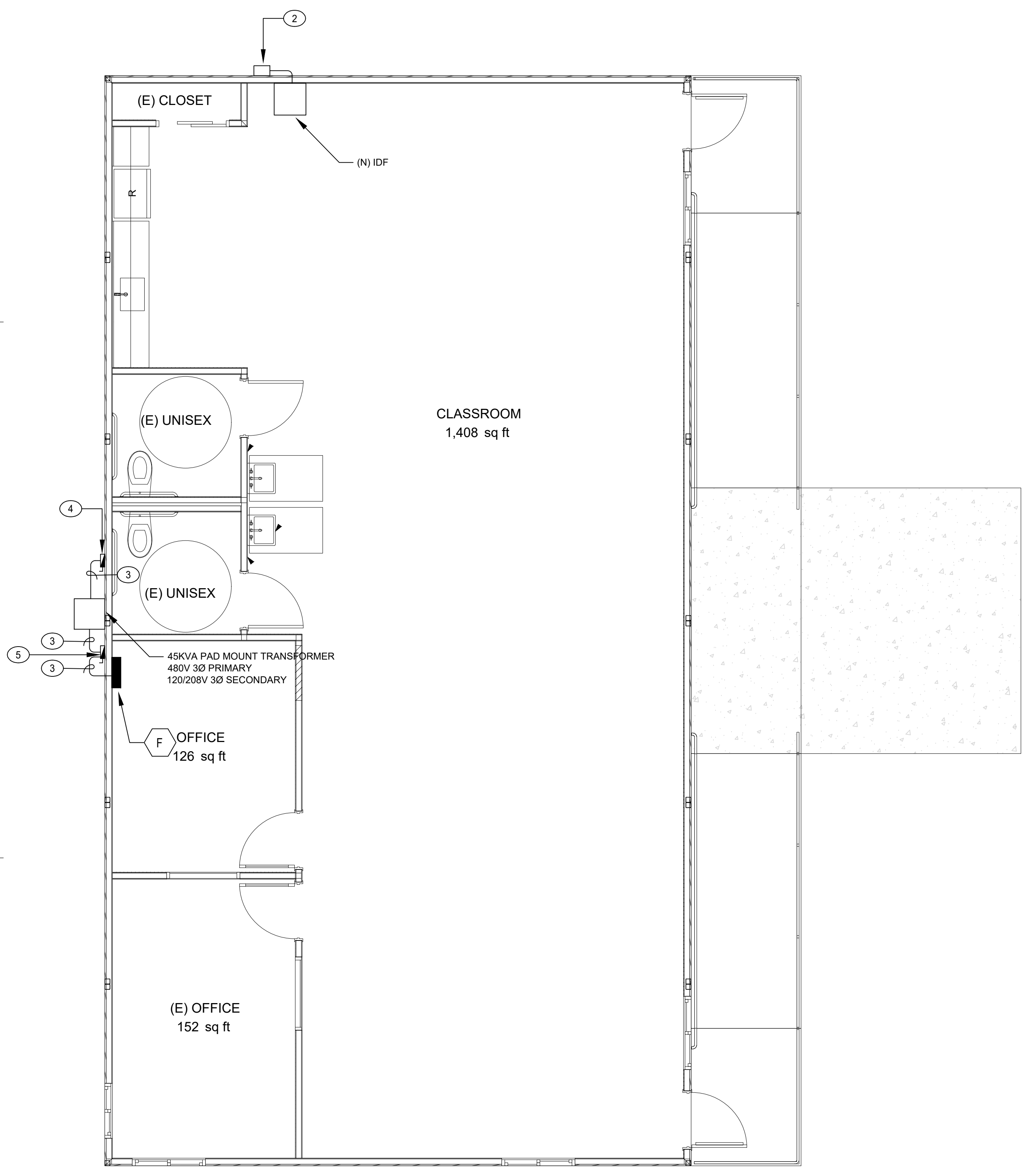
- ① (E) LIGHT FIXTURES TO BE REMOVED AND REINSTALLED. RECONNECT TO EXISTING CIRCUIT.
- ② 16"X16"X4" PULLBOX IN NEMA 3R ENCLOSURE. MOUNT HIGH ON WALL.
- ③ 2"C. 4#1, 1#6 GRD.
- ④ 200AS 125AF, 3P 600V RATED FUSED DISCONNECT IN NEMA 3R ENCLOSURE. PRIMARY SIDE OF TRANSFORMER.
- ⑤ 200AS 125AF, 3P 250V RATED FUSED DISCONNECT IN NEMA 3R ENCLOSURE. SECONDARY SIDE OF TRANSFORMER.

DSA APPROVAL STAMP

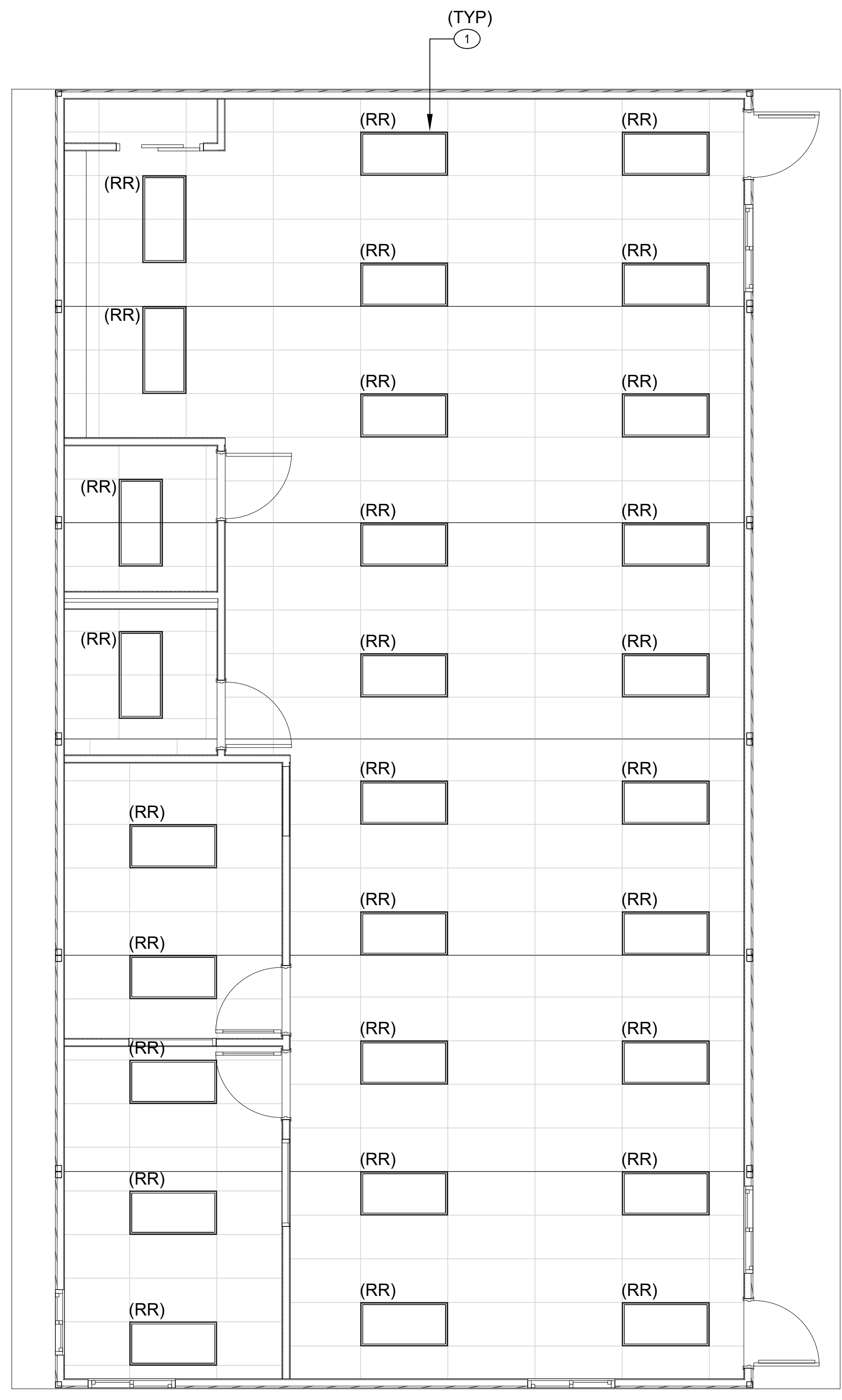
THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

NOTES:

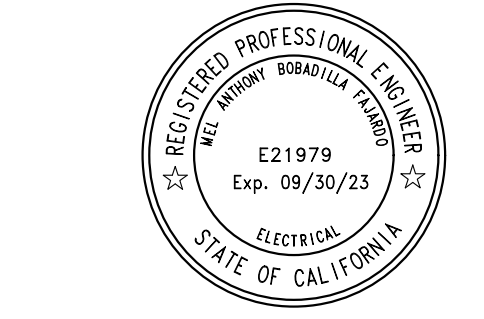
COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.



**1** RELO POWER & SYSTEMS PLAN  
 E-3.0 SCALE: 1/4" = 1'-0" 0 4 8 FT. NORTH



**2** RELO LIGHTING PLAN  
 E-3.0 SCALE: 1/4" = 1'-0" 0 4 8 FT. NORTH



**PACIFIC ENGINEERS GROUP**  
 Consulting MEPF Engineers  
 1106 W. Magnolia Blvd., Suite A  
 Burbank, CA 91506  
 (818) 859-7081 Y23-268  
 info@pacificeng.net

ARCHITECT:  
**CO-AR DESIGN, INC.**  
 680 Brea Canyon Road, Suite 178  
 Diamond Bar, California 91789  
 Office: 909-598-0186  
 Dennis J. Lee, NCARB dennisl@coar.design.com



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS:  
 2800 E. HOLLINGWORTH ST.  
 WEST COVINA, CA 91792

CLIENT:  
 ROWLAND UNIFIED SCHOOL DISTRICT  
 1830 NOGALES STREET  
 ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS:

1	DSA PROGRESS	8/15/23
---	--------------	---------

PROJECT NO: 201904  
 SCALE: AS SHOWN  
 DATE: 8/7/2023  
 DRAWN BY: ED / FW  
 CHECKED BY: DL

**RELO ELECTRICAL PLAN**

SHEET NO:  
**E-3.0**

B:\MSD\CO-AR\CONF-23 - BIM\MSD\Basic for Arch\Arch\23-0819\23-0819-004-RELO-TELESIS-RELOCATIONS 2023 Monday, August 7, 2023 2:33 PM



**FIRE ALARM SYMBOL LIST**

FATC	FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS, 14"x24"x6" DEEP
MFACP	MAIN FIRE ALARM CONTROL PANEL.
FA	FIRE ALARM
FCPS	FIRE ALARM POWER SUPPLY.
#OF DEVICE CKT #	MFATC MAIN FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS 24"x24"x6"DEEP.
A1-1 V2-1 (15)	FIRE ALARM WALL MOUNTED SPEAKER WITH STROBE LIGHT, CANDELA RATING AS INDICATED. +96" TO TOP OF STROBE LIGHT. "A" DENOTES AUDIBLE FIRE ALARM SIGNAL CIRCUIT AND "V" DENOTE VISUAL FIRE ALARM SIGNAL CIRCUIT. "(15)" DENOTES CANDELA RATING. 1/2 WATT SPEAKER TAP, U.O.N.
CANDELA RATING	A1-1 (75) V2-1 (15) CEILING MOUNTED SPEAKER/STROBE, CANDELA RATING AS INDICATED. 1/2 WATT SPEAKER TAP, U.O.N.
SPEAKER TAPPED	S1-1 (E) FIRE ALARM MANUAL PULL STATION, PROVIDE MONITOR MODULE TO EACH DEVICE. +48". "S1-1" DENOTES LOOP MODULE (SLC #1) IDENTIFICATION NUMBER.
WP	A1-1 (2) EXTERIOR W.P. FIRE ALARM SPEAKER. "A1-1" DENOTES AUDIBLE FA SIGNAL CIRCUIT NUMBER.
V2-1 (15)	FIRE ALARM STROBE, MOUNT AT +96" TO TOP OF STROBE, CANDELA RATING AS INDICATED. "V2-1" DENOTES FIRE ALARM SIGNAL CIRCUIT NUMBER. "15cd" DENOTES 15cd CANDELA RATING.
V2-1 (15)	CEILING MOUNTED STROBE. CANDELA RATING AS INDICATED.
S1-1 (E)	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 (E)	ADDRESSABLE CARBON MONOXIDE/SMOKE DETECTOR W/ SOUNDER BASE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 (E)	ADDRESSABLE HEAT DETECTOR MOUNTED IN CEILING. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 (E)	ADDRESSABLE HEAT DETECTOR SURFACE MOUNTED IN CEILING WITH ACCESS PANEL. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 (E)	MONITOR MODULE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 (E)	CONTROL RELAY MODULE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

**FIRE ALARM CABLE AND WIRING**

- "F" CABLE - "WEST PENN" NO. D980, 1 PAIR #18 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP.
- "FW" CABLE - "WEST PENN" NO. AQC225, 1 PAIR #16 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP (UNDERGROUND).
- "A" CABLE - 2#14 TWISTED PAIR, AUDIO CABLE.
- "AW" CABLE - 2#14 TWISTED PAIR, AUDIO CABLE WET LOCATION (AUDIO).
- "V" CABLE - 2#12 AWG-FIRE ALARM VISUAL CIRCUIT CABLE.
- "S" CABLE - 2#14 TWISTED PAIR AUDIO SYNC CABLE, WET LOCATION.
- "Z" CABLE - 2#14 TWISTED PAIR VISUAL SYNC CABLE, WET LOCATION.
- "B" CABLE - 2#14 TWISTED PAIR, SOUNDER BASE.
- F,A,V— } 3/4"C, WITH ONE "F" CABLE, ONE "N" CABLE AND ONE "V" CABLE.
- F,A,V— } 3/4" CONDUIT WITH ONE "F" CABLE.
- B— 3/4" CONDUIT WITH ONE "B" CABLE.
- 2F— 3/4" CONDUIT WITH TWO "F" CABLES.
- V— 3/4" CONDUIT WITH ONE "V" CABLE.
- 2V— 3/4" CONDUIT WITH TWO "V" CABLES.
- A— 3/4" CONDUIT WITH ONE "A" CABLE.
- 2A— 3/4" CONDUIT WITH TWO "A" CABLES.
- AW— 3/4" CONDUIT WITH ONE "AW" CABLE.
- 2AW— 3/4" CONDUIT WITH TWO "AW" CABLES.
- 2F,2A,2V— 1-1/2" CONDUIT WITH TWO "F", TWO "A", TWO "V" CABLES.
- 2A,2V— 1" CONDUIT WITH TWO "A", TWO "V" CABLES.
- F,A,2V— 1" CONDUIT WITH ONE "F", ONE "A", TWO "V" CABLES.

**FIRE ALARM SCOPE OF WORK:**

- 1) PROVIDE VOICE EVACUATION DEVICES FOR NEW ROLCATABLE BUILDING "F".
- 2) EXISTING FIRE ALARM CONTROL PANEL NOTIFIER NFS2-640 TO REMAIN. REMOVE AND REPLACE ELECTRONIC DEVICES FOR A COMPLETE VOICE EVACUATION OPERATING SYSTEM. RECONNECT ALL EXISTING DEVICES TO REMAIN AND REPROGRAM.

**FIRE ALARM NOTES**

- 1) THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS (BASED ON CBC 2016), AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS, & CALIFORNIA STATE FIRE MARSHALL REQUIREMENTS.
- 2) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S), OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF JCC ARCHITECT/ENGINEER OF RECORD PRIOR TO COMMENCING ANY WORK.
- 3) SPECIFIC COMPONENTS ON CATALOG CUT SHEETS MUST BE HIGHLIGHTED, OR IDENTIFIED.
- 4) PANELS MUST NOT BE MOUNTED HIGHER THAN 6 FEET AND SYSTEM STATUS DISPLAYS ARE TO BE AT EYE LEVEL (+60" AFF), NO EQUIPMENT OR RACEWAY MAY BE LOCATED UNDER A CABINET CONTAINING BATTERIES.
- 5) CONTRACTOR SHALL INSTALL AND FURNISHED A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO WIRING, CONDUITS AND DEVICES REQUIRED FOR SATISFACTORY OPERATION OF SYSTEM.
- 6) PRIOR TO RELEASING THE FIRE ALARM INSTALLATION, CONTRACTOR SHALL PERFORM AN OWNERS TEST AND GENERATE DOCUMENTATION OF THAT TEST. THE OAR SHALL PROVIDE A SET OF FIRE ALARM SYSTEM RED-LINE DRAWINGS (AS FINALIZED BY CONTRACTOR AND ACCEPTED BY IOR AND AE) AND A COPY OF CONSTRUCTION DRAWINGS ON COMPACT DISC AT THE TIME OF THE TEST.
- 7) CONSULT WITH THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK.
- 8) ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
- 9) ALL EXISTING MATERIALS REMOVED FROM BUILDINGS SHALL BE REMOVED FROM SITE AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 10) WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- 11) THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE AT THE TIME THE DRAWINGS WERE PREPARED. OWNER'S REPRESENTATIVE PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
- 12) IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
- 13) REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
- 14) EXISTING FIRE ALARM SYSTEM MUST REMAIN IN OPERATION UNTIL NEW SYSTEM IS COMPLETE, APPROVED AND OPERATIONAL.
- 15) QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF AUXILIARY SYSTEM (FA, TEL, SECURITY) SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN. PROVIDE ALL SPARE WIRES BETWEEN DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT.
- 16) IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.
- 17) ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- 18) FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
- 19) COORDINATION:  
A. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ELECTRICAL. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE BID TIME, OR BEFORE PROCEEDING WITH THE WORK.  
B. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.  
C. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL, COMMUNICATION AND SECURITY REQUIREMENTS BEFORE CONSTRUCTION BEGINS.
- 20) ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- 21) THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "EXISTING" OR AS "PROVIDED BY OTHERS".
- 22) JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.

**FIRE ALARM NOTES**

- 23) LABEL DESCRIPTIONS\* INDICATING DEVICE TYPE AND LOCATION THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAY SHOULD BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTIONS SHOULD BE BASED ON THE STAFFS UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
- 24) IF USE OF WIREMOLD IS DESIRED, CONTRACTOR SHALL OBTAIN A LETTER FROM ARCHITECT AUTHORIZING USE OF WIREMOLD PRIOR TO INSTALLATION.
- 25) DRAWINGS ARE BASED ON AVAILABLE AS-BUILT PLANS AND FIELD OBSERVATIONS. NOTIFY THE AUTHORIZED OWNER REPRESENTATIVE (AOR) IMMEDIATELY WHEREVER (E) CONDITIONS ENCOUNTERED DEVIATE FROM THESE DRAWINGS AND EXISTING EQUIPMENT MUST BE RELOCATED DUE TO NEW CONSTRUCTION EFFORTS.
- 26) PROVIDE REQUIRED 2"x2" OPENINGS FOR ALL CEILING IDENTIFIED AS HARD, PLASTER & TILE CEILINGS, TO ACCOMMODATE CONDUIT INSTALLATION TO HEAT DETECTOR IN ATTIC SPACE PATCH AND REPAIR TO MATCH EXISTING CEILING.
- 27) AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000CFM TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-OFF. AUTOMATIC SHUT-OFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR-MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. 2016 CALIFORNIA MECHANICAL CODE 608.00 TITLE 24 PART 4, AREA DETECTORS MAY BE USED FOR HVAC SHUT-DOWN IF THEY FULFILL ALL REQUIREMENTS SET FORTH BY THE 2016 CMC.
- 28) SMOKE DETECTORS SHALL BE USED AS THE PRIMARY METHOD OF AUTOMATIC FIRE ALARM SYSTEM INITIATION EXCEPT IN AREAS WHERE THE ENVIRONMENT OR AMBIENT CONDITIONS EXCEED SMOKE DETECTION GUIDELINES.
- 29) HEAT DETECTORS SHALL BE USE IN AREAS WHERE THE ENVIRONMENT OR AMBIENT CONDITIONS EXCEED SMOKE DETECTORS INSTALLATION GUIDELINES. IN ATTIC CEILING AREAS CONTAINING SPRINKLERS, HEAT DETECTORS WILL NOT BE REQUIRED. HEAT DETECTORS WHERE INSTALLED ABOVE SUSPENDED CEILINGS MUST HAVE THEIR LOCATIONS BE CLEARLY MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE. LABEL LETTERING SHALL BE 3/4" HIGH, RED ON WHITE BACKGROUND AND BOLD ENOUGH TO BE EASILY SEEN BY PERSONNEL FROM THE FLOOR.
- 30) INITIATING DEVICES SHALL BE INSTALLED IN ALL AREAS WHERE REQUIRED AND SHALL BE ACCESSIBLE FOR PERIODIC MAINTENANCE AND TESTING.
- 31) PROVIDE GROUND BUSHING ON NEW AND EXISTING PULLBOXES.
- 32) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUITY OF THE EXISTING FIRE ALARM SYSTEM, CENTRAL STATION REPORTING SYSTEM, SMOKE MANAGEMENT SYSTEM, AND ANY OTHER LIFE SAFETY EQUIPMENT EXISTING AT THE SITE AND AFFECTED BY HIS WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH OR OTHER MITIGATING MEASURES FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.
- 33) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES.
- 34) ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REPLACED OR REASSEMBLED TO AT LEAST THE CONDITION IN LIKE QUALITY PRIOR TO REMOVAL OR DISASSEMBLY.
- 35) CONTRACTOR SHALL NOT DISMANTLE OR REMOVE EXISTING FIRE ALARM SYSTEM DEVICES UNTIL THE NEW FIRE ALARM SYSTEM IS COMPLETELY OPERATIONAL AND THE UNUSED EXISTING SYSTEM DEVICES MUST BE REMOVED TO COMPLETE THE PROJECT. ALL ABANDONED CIRCUITS AND WIRING SHOULD BE REMOVED COMPLETELY RATHER THAN LABELED, THIS WILL ELIMINATE ANY CONFUSION WHEN TROUBLESHOOTING AT A LATER DATE.
- 36) GENERAL CONTRACTOR TO HIRE HVAC CONTRACTOR TO MODIFY/INTERFACE HVAC EQUIPMENT TO THE NEW FIRE ALARM.
- 37) THE COLOR CODE FOR WIRE INSULATION IN THE LOW VOLTAGE SPECIFICATIONS SHOULD BE FOLLOWED.
- 38) THE FIRE ALARM SYSTEM SHALL CONTAIN ALL PRINTED CIRCUIT BOARDS, PROGRAMMING, MODULES, CABLES, HARDWARE OR OTHER EQUIPMENT TO SUPPORT THE OPERATION OF A SYSTEM PRINTER. IF A SYSTEM PRINTER IS NOT INDICATED TO BE PART OF THE FIRE ALARM PROJECT THEN THE PRINTER PORT MAY BE PROGRAMMED AS ENABLED BUT NOT SUPERVISED.
- 39) ALL FIRE STROBES WHERE THREE OR MORE OR FLASHES FROM THREE OR MORE ARE VISIBLE FROM ANY ONE POINT MUST BE SYNCHRONIZED. WIRING AND HARDWARE CONFIGURATION FOR FIRE STROBES IN A COMMON SPACE MUST BE PERFORMED CAREFULLY SINCE FEEDING STROBES FROM DIFFERENT CIRCUITS OF DIFFERENT REMOTE POWER SUPPLIES OR SYNCHRONIZATION MODULES MAY CAUSE A CONDITION WHERE WITHIN THE SAME SPACE SYNCHRONIZATION TIMING. THE TRIGGER CIRCUIT FOR AUDIBLE SIGNALS SHOULD BE FROM FACP TO INSURE SYNCHRONIZATION. ALL AUDIBLE SIGNALS MUST BE SYNCHRONIZED WITHIN THE SAME NOTIFICATION ZONE.
- 40) SEAL ALL SPACE AROUND CONDUIT PENETRATION THROUGH FIRE RATED WALL WITH A UL LISTED FIRE BARRIER COMPOUND "3M" CAULKING OR EQUAL.

SYMBOLS	COMPONENT	NOTIFIER	CSFM NO.
☐	(E) MFACP	NFS2-640	7165-0028:0224
—	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER	UDACT-2	7165-0028:0224
☐	REMOTE AMPLIFIER AMP-F	DAA 50/70	7165-0028:0224
☐	REMOTE POWER SUPPLY - FCPS-F	PSE-6	7315-0028:0513
☐	REMOTE MICROPHONE	DVC-RPU	7165-0028:0224
⊗	SMOKE DETECTOR, PHOTOELECTRIC TYPE WITH B210LP BASE	FAPT-851	7272-0028:0206
WP	EXTERIOR SPEAKER	SYSTEM SENSOR-SPRK WITH MWBB BACKBOX	7320-1653:0201
⊕	HEAT DETECTOR W/ 210LP BASE	FST-851H	7270-0028:0196
(cd) ☐	STROBE, WALL MOUNT	SYSTEM SENSOR SRL	7125-1653:0504
(cd) ⊕	SPEAKER-STROBE, WALL MOUNT	SYSTEM SENSOR SPSSL	7320-1653:0505
⊞	CONTROL RELAY MODULE	FRM-1(A)	7300-0028:0219

DSA APPROVAL STAMP

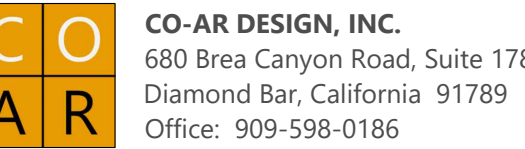
THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

NOTES:  
COPYRIGHT © 2023 CO-AR DESIGN, INC., ALL RIGHTS RESERVED.



**PACIFIC ENGINEERS GROUP**  
Consulting MEPF Engineers  
1106 W. Magnolia Blvd., Suite A  
Burbank, CA 91506  
(818) 859-7081 Y23-268  
info@pacificeng.net

ARCHITECT:



Dennis J. Lee, NCARB dennisj@coar design.com

PROJECT:



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS:  
2800 E. HOLLINGWORTH ST.  
WEST COVINA, CA 91792

CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

SUBMITTED: REVISIONS:  
1 DSA PROGRESS 8/15/23

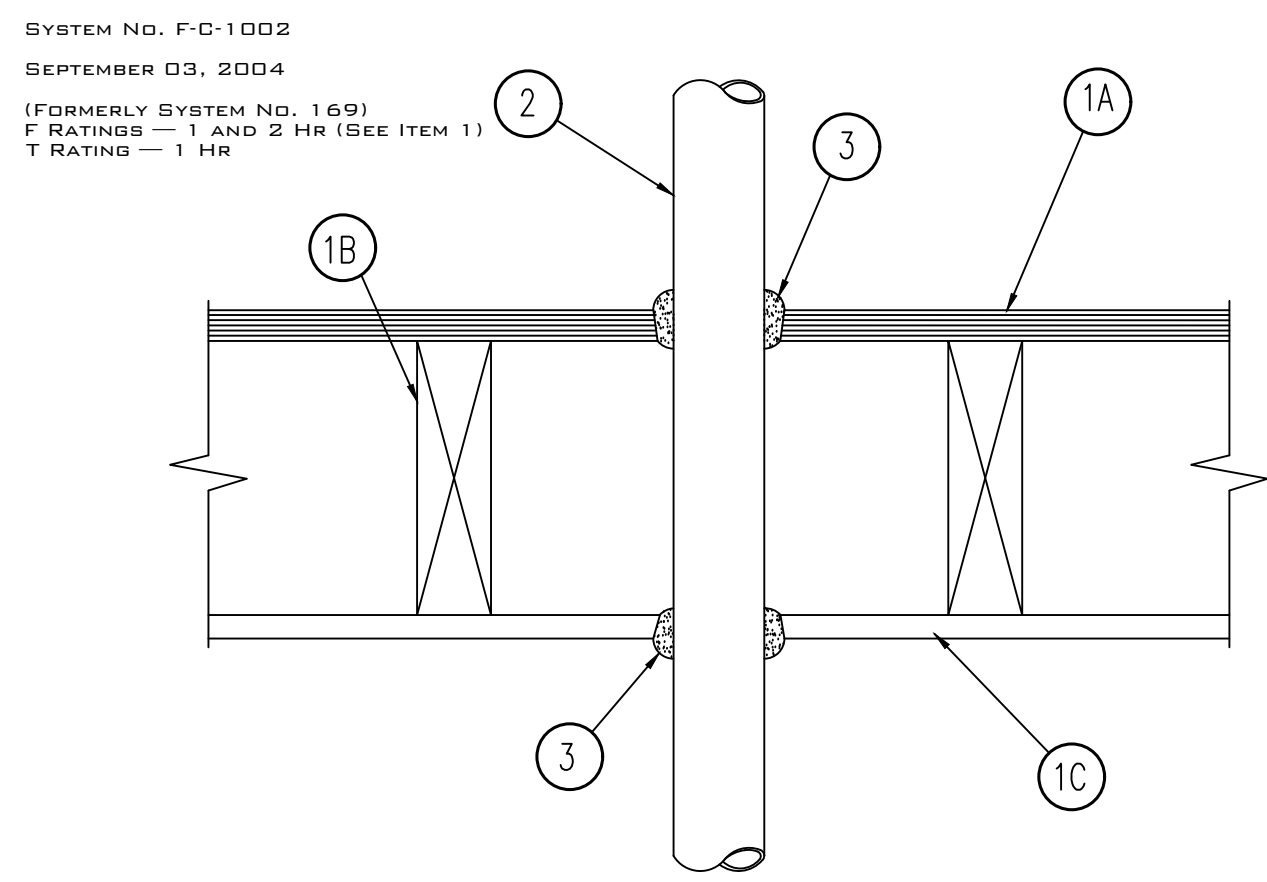
PROJECT NO: 201904  
SCALE: AS SHOWN  
DATE: 8/7/2023  
DRAWN BY: ED /FW  
CHECKED BY: DL

SHEET TITLE:  
**FIRE ALARM SYMBOL LIST & GENERAL NOTES**

SHEET NO:

**FA-1.0**





1. Floor-Ceiling Assembly -- The 1 or 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the UL Fire Resistance Directory. The 1 hr fire rated assembly shall be constructed as specified in Design No. L501, L512 or L537. The 2 hr fire rated assembly shall be constructed as specified in Design No. L505, L511 or L536. The F Rating of the firestop system is equal to the fire rating of the floor-ceiling assembly. The general construction details of the floor-ceiling assembly are summarized below:

A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture as specified in the individual Floor-Ceiling Design. Max diam of opening is 1 in. larger than outside diam of penetrant.

B. Wood Joists -- Nom 2 by 10 in. lumber joists spaced 16 in. O.C. with nom 1 by 3 in. lumber bridging and with ends firestopped.

C. Furring Channels -- (Not Shown) -- Resilient galv steel furring channels installed perpendicular to wood joists between first and second layers of wallboard (Item 1D) in 2 hr fire rated assembly. Furring channels spaced max 24 in. O.C.

D. Gypsum Board -- Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. First layer of wallboard nailed to wood joists. Second layer of wallboard (2 hr fire rated assembly only) screw-attached to furring channels. Max diam of opening is 1 in. larger than outside diam of penetrant.

1.1 Chase Wall -- (Optional, not shown) -- The through penetrants (Item No. 2) may be routed through a fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs -- Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.

B. Sole Plate -- Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted.

C. Top Plate -- The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 5 in.

D. Gypsum Board -- Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.

2. Through Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 9/16 in. (point contact) to max 1 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipe, conduit or tubing may be used:

A. Steel Pipe -- Nom 10 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. Iron Pipe -- Nom 10 in. diam (or smaller) cast or ductile iron pipe.

C. Conduit -- Nom 6 in. diam (or smaller) steel conduit, or nom 4 in. (or smaller) steel electrical metallic tubing.

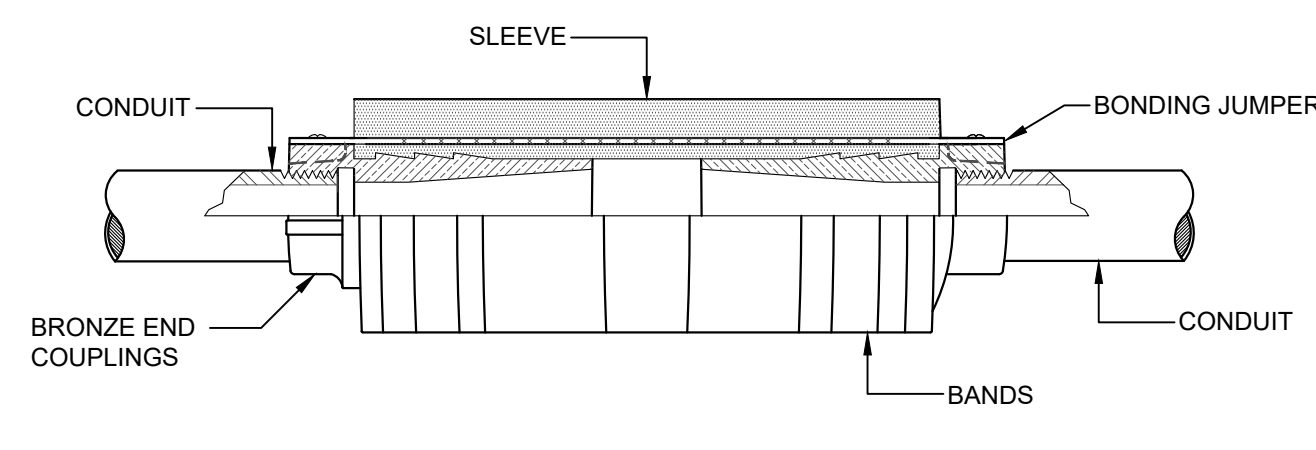
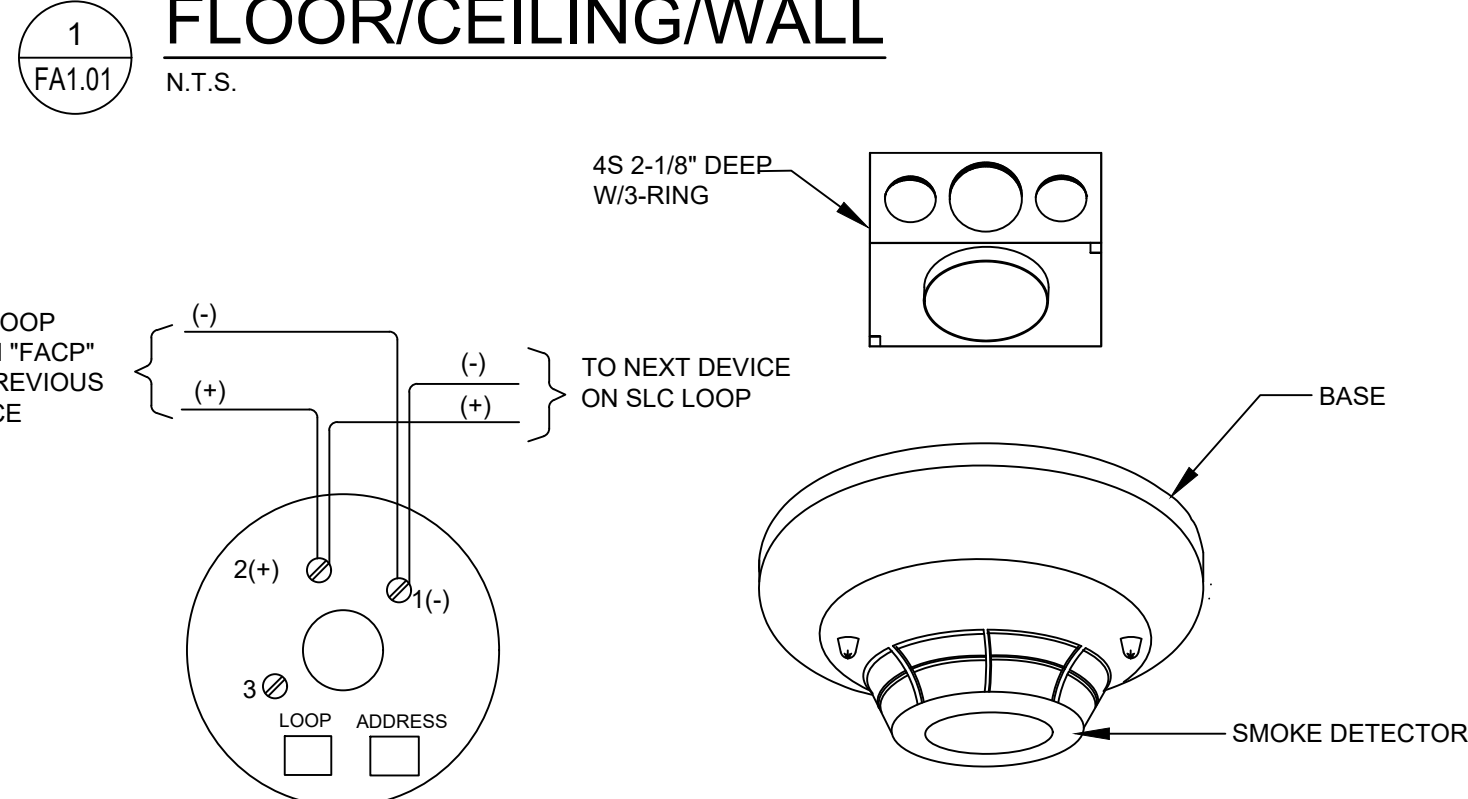
D. Copper Tubing -- Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material -- Caulk or Sealant -- Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sole plate. Min 5/8 in. or 1-1/4 in. thickness of fill material, for 1 and 2 hr rated assemblies, respectively, applied within the annulus, flush with bottom surface of ceiling or top plate. An additional min 1/4 in. crown of fill material applied to perimeter of penetrant at its egress from the top of flooring and underside of ceiling or from top of sole plate and underside of top plate.  
3M COMPANY -- CP 25WB+ or FB-3000 WT  
\*Bearing the UL Classification Mark

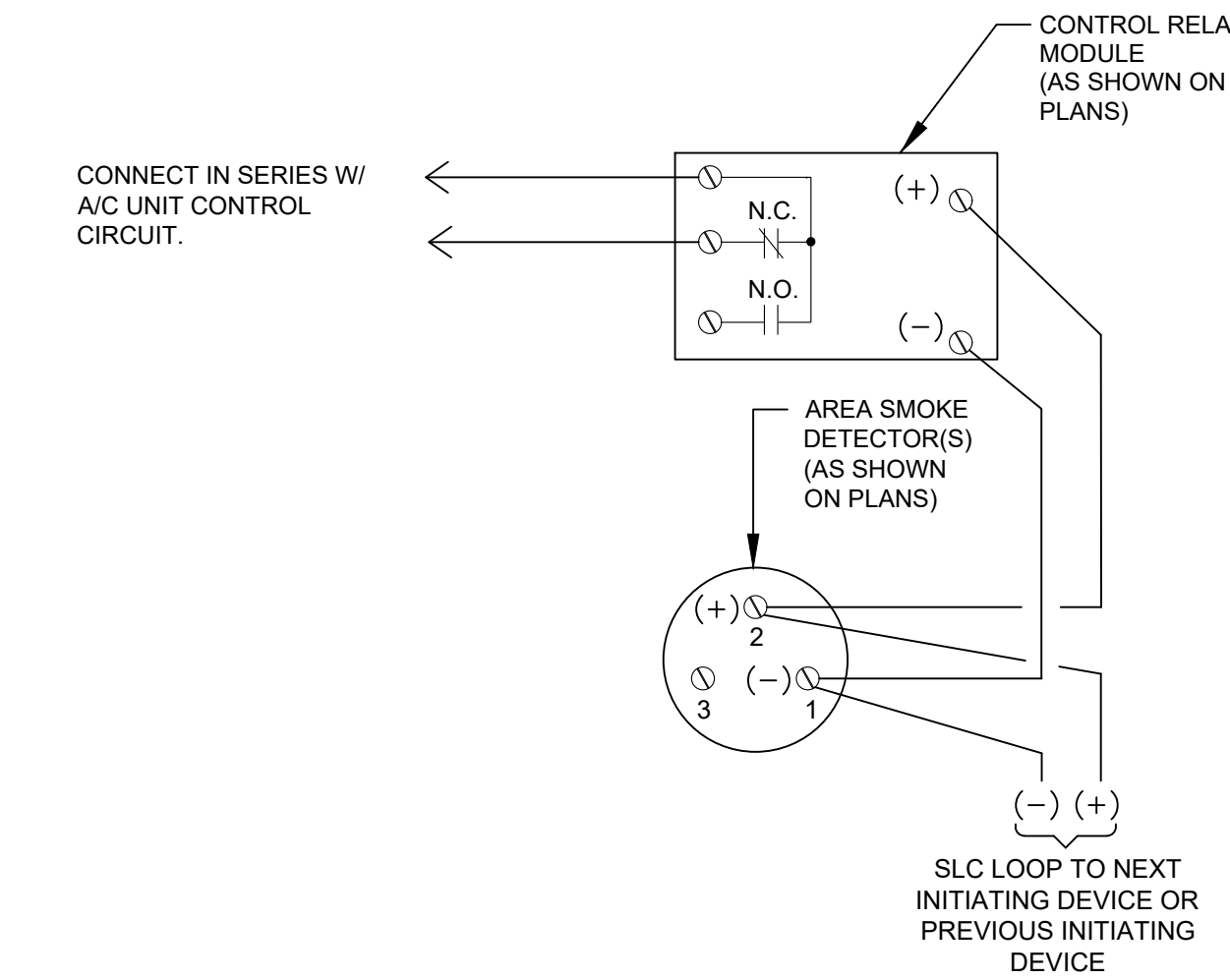
REPRINTED FROM THE ONLINE CERTIFICATION DIRECTORY WITH PERMISSION FROM UNDERWRITERS LABORATORIES. COPYRIGHT 2008 UNDERWRITERS LABORATORIES

## FIRE STOPPING THROUGH WOOD FRAME FLOOR/CEILING/WALL



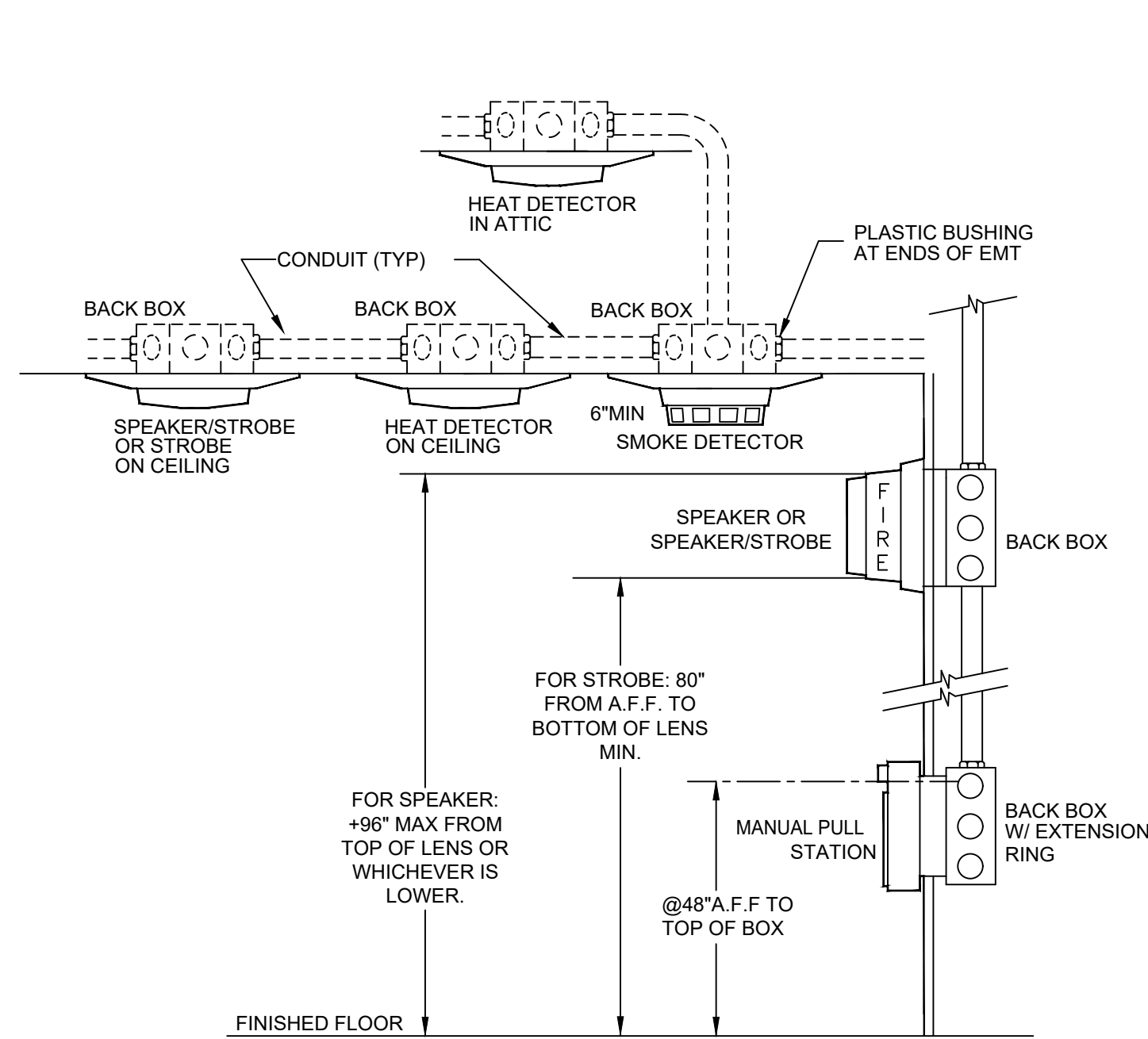
## EXPANSION/DEFLECTION FITTING

UL LISTED: E-11853, UL STANDARD: 514B.  
CSA CERTIFIED: 11584, CSA STANDARD: C22.2 NO.18.



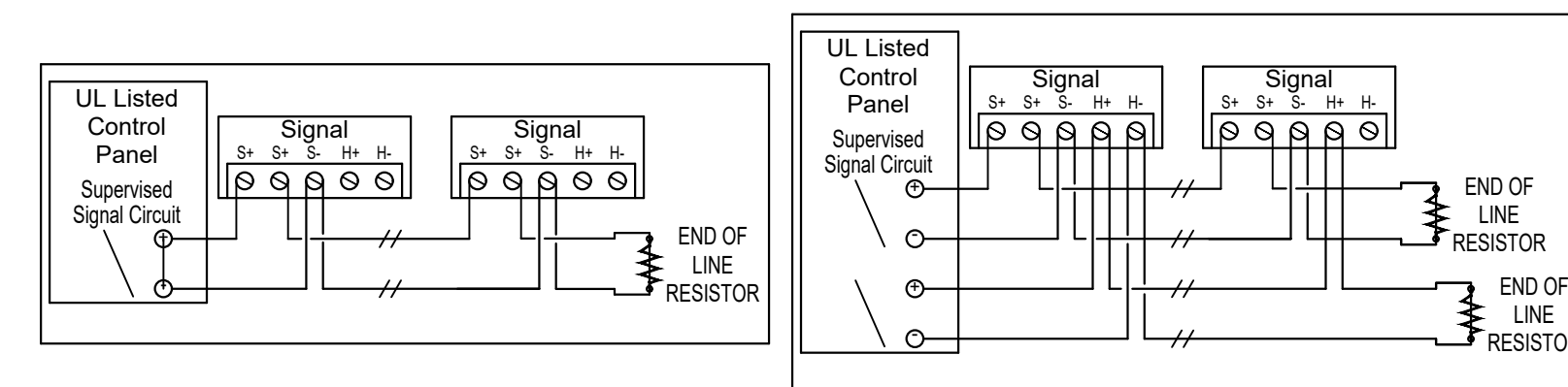
## TYPICAL A/C UNIT SHUT DOWN CONTROLS

NOTE: PROGRAM FIRE ALARM SYSTEM THAT ANY SMOKE OR HEAT DETECTORS IN THE BUILDING THAT SEND A SIGNAL TO ACTIVATE FACP WILL ALSO SHUT DOWN ALL THE A/C UNITS IN THE BUILDING TOO.



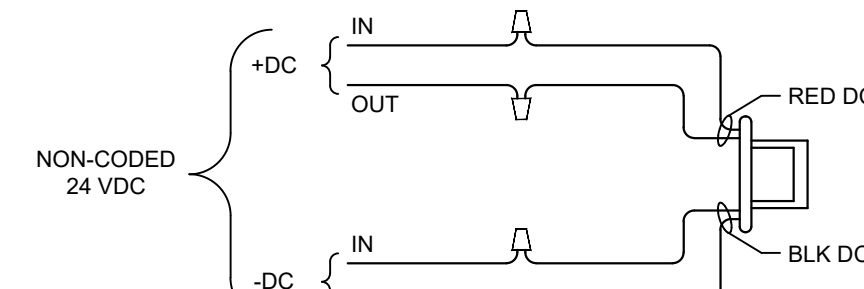
## PULL STATION, SPEAKER & STROBE HEIGHT REQUIREMENTS

3 FA1.01 N.T.S.



## DUAL INPUT SPEAKER/STROBE WIRING DIAGRAM

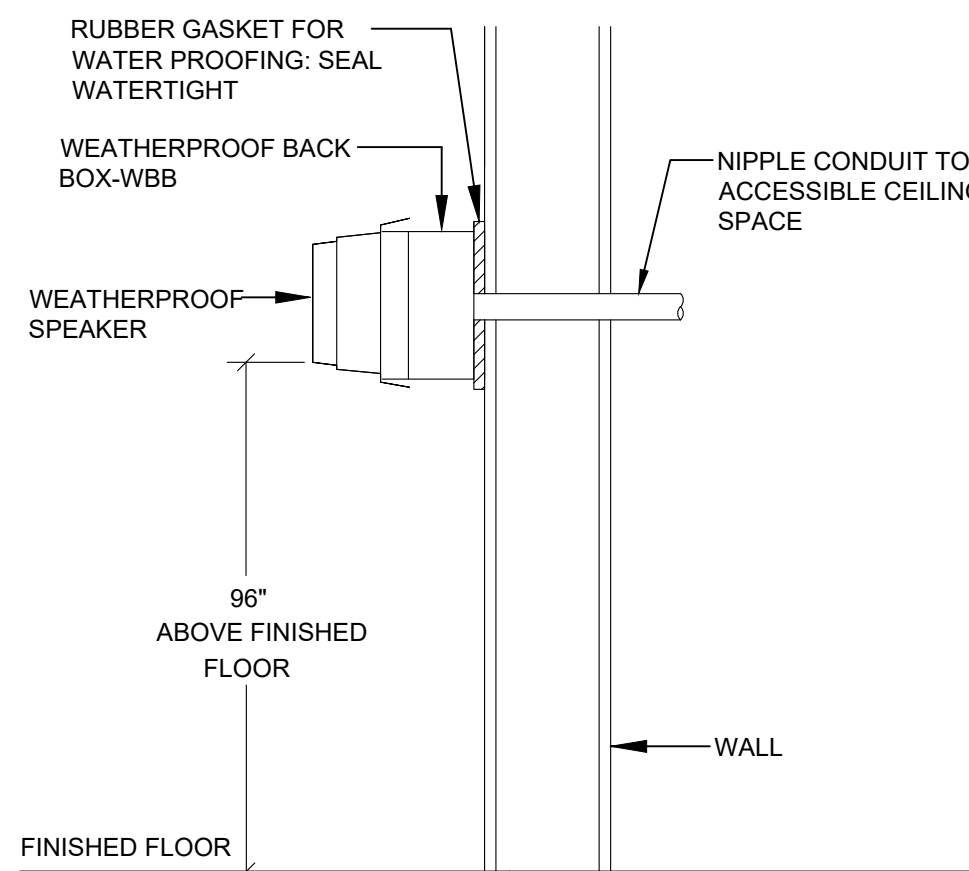
TEMPORAL CODE 3 FOR ALL AUDIBLE DEVICES OBTAINED FROM FIRE ALARM CONTROL PANEL.



## STROBE LIGHT

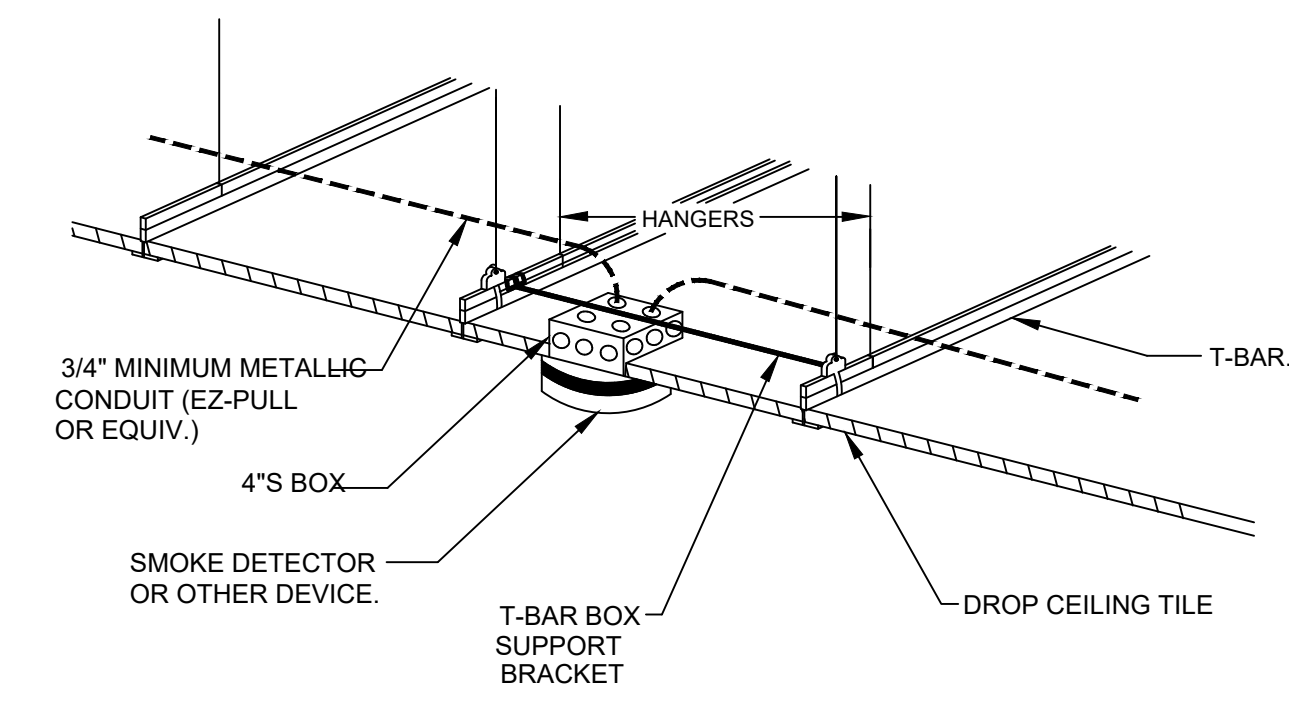
NOTE: NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

VISUAL WIRING DIAGRAM



## EXTERIOR WEATHERPROOF SPEAKER MOUNTING DETAIL

NOTE: MOUNT EXTERIOR WEATHERPROOF SPEAKER AT +96" FROM FINISHED FLOOR TO BOTTOM OF DEVICE.



## TYPICAL (SMOKE/HEAT DETECTOR) CEILING MOUNT INSTALLATION DETAIL

N.T.S.

### BATTERY SIZING CALCULATION

#### DAA 50/70 Voice Control Panel - Amplifier - F

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	DAA 50/70		0.06500	0.06500	2.00000	2.06500
4	Speaker 70V	Speaker - 1/2 Watt Tap	0.00000	0.00000	0.00714	0.02856
0	Speaker 70V	Speaker - 1 Watt Tap	0.00000	0.00000	0.01428	0.00000
1	Speaker 70V	Speaker - 2 Watt Tap	0.00000	0.00000	0.02856	0.02856
			Standby Load	0.065	Alarm Load	2.122
			Standby Load:	0.065 Amps	Alarm Load:	2.122 Amps
			Standby Time:	24 Hours	Alarm Time:	15 Minutes
			Total Standby Load:	1.56 Amp*Hours	Total Alarm Load:	0.53 Amp*Hours
Batteries Provided:			(2) BAT-1270	Available Battery:	5.60 A.H.	
Battery Size:			7.00 A.H.	Load (ALM + STBY):	2.09 A.H.	
De-Rated Size(80%):			5.60 A.H.	Spare Capacity:	3.51 A.H.	

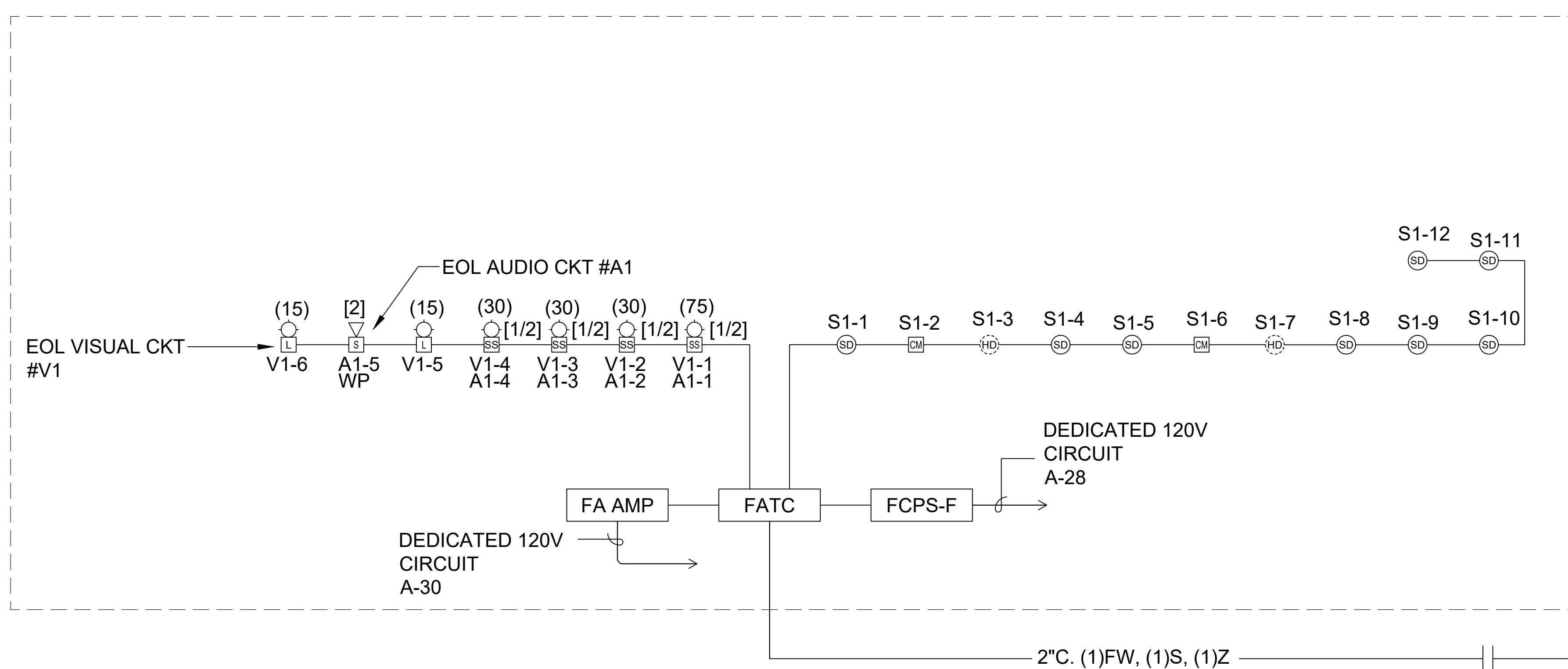
### RELO F

BATTERY CALCULATIONS - POWER EXTENDER FCPS-F					
EQUIPMENT MODEL	QUANTITY	UNIT	SUPERVISORY CURRENT, A	ALARM CURRENT, A	
			TOTAL	UNIT	TOTAL
POWER SUPPLY PSE-6	1		0.04	0.04	0.16
110cd ALARM STROBE LIGHT 24 VDC	0		0	0	0.148
75cd ALARM STROBE LIGHT 24 VDC	1		0	0	0.111
30cd ALARM STROBE LIGHT 24 VDC	3		0	0	0.063
15cd ALARM STROBE LIGHT 24 VDC	2		0	0	0.043
SOUNDER BASE	0		0	0	0.02
STANDBY AH	0.96		SUB TOTAL	0.04	SUB TOTAL
ALARM AH	0.14		HOURS	24.00	HOURS
TOTAL	1.10		AH STANDBY	0.96	AH ALARM
			PROVIDE 7 AH BATTERY PACK		
			(0.25 HRS. = 15 MIN.)		

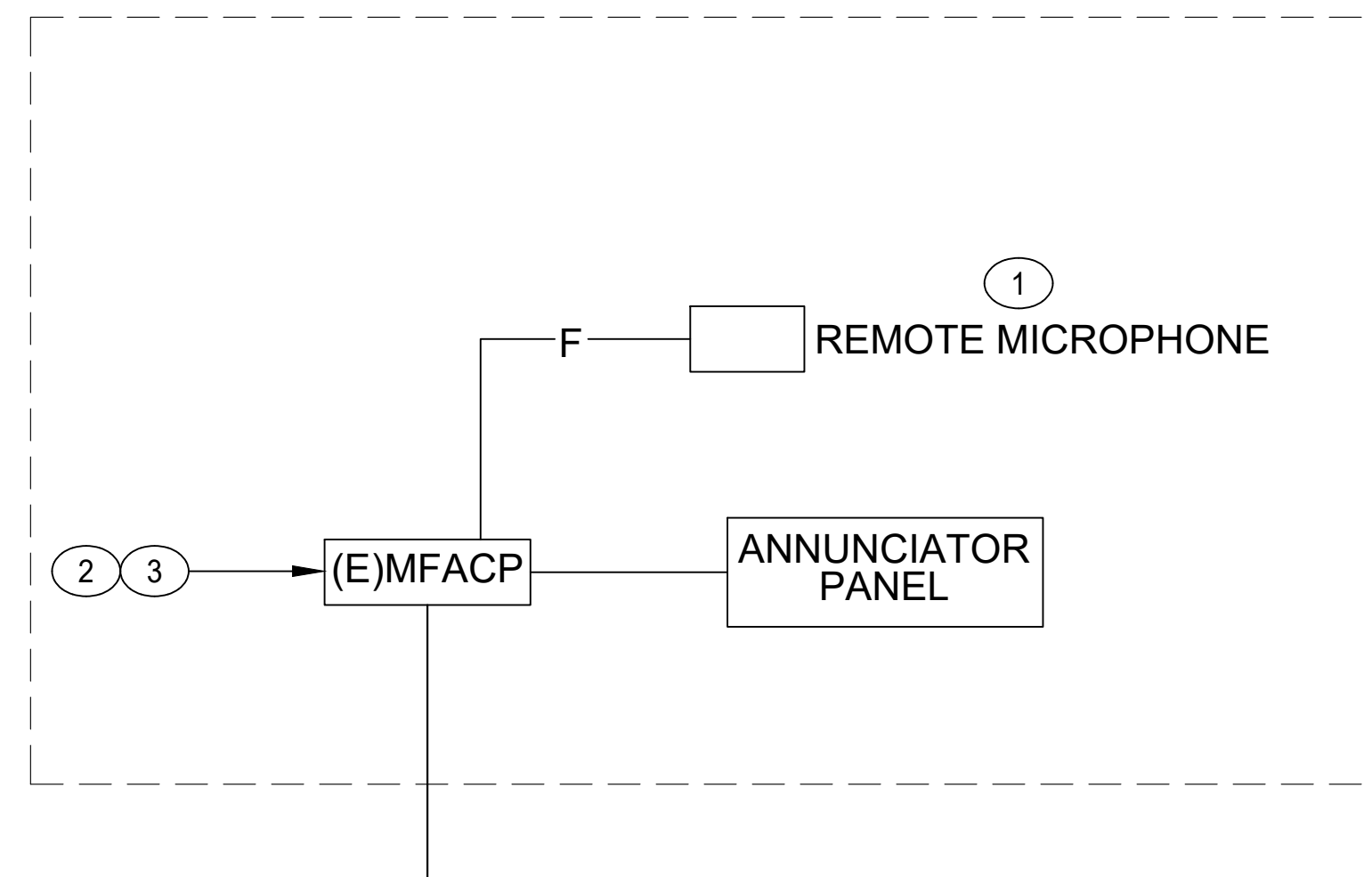
## SMOKE AND HEAT DETECTORS DETAIL WIRING

2 FA1.01 N.T.S.

### RELO F



### BUILDING "C" CLASSROOM



### KEYED NOTES

- REMOTE MICROPHONE MOUNT ADJACENT TO ANNUNCIATOR PANEL.
- EXISTING FIRE ALARM CONTROL PANEL, REMOVE AND REPLACE ELECTRONIC DEVICES WITH NEW NOTIFIER NFS2-640 INCLUDING BUT NOT LIMITED TO DVC-EM, DAA-2 AMPLIFIER, AND MICROPHONE (VOICE EVACUATION SYSTEM FOR A COMPLETE OPERATING SYSTEM). RECONNECT ALL EXISTING DEVICES AND 120 VOLTS DEDICATED POWER SUPPLY.
- PROGRAM CONTROL PANEL TO COMBINE NEW AND EXISTING DEVICES. TEST NEW AND EXISTING DEVICES PER NFPA REQUIREMENTS.

### DSA APPROVAL STAMP

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OR RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.

NOTES:



PACIFIC ENGINEERS GROUP  
Consulting MPEF Engineers  
1106 W. Magnolia Blvd., Suite A  
Burbank, CA 91506  
(818) 859-7081 Y23-268  
info@pacificeng.net

ARCHITECT:

CO-AR DESIGN, INC.  
680 Brea Canyon Road, Suite 178  
Diamond Bar, California 91789  
Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coar-design.com

PROJECT:



RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELEVIS ACADEMY

ADDRESS:

2800 E. HOLLINGWORTH ST. WEST COVINA, CA 91792

COUNTY:

ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

SUBMITTED/REVISIONS:

1 DSA PROGRESS 8/15/23

PROJECT NO:

201904

SCALE:

AS SHOWN

DATE:

8/7/2023

DESIGNED BY:

ED / FW

CHECKED BY:

DL

SHEET TITLE:

FIRE ALARM DETAILS AND BATTERY CALCULATIONS

SHEET NO:

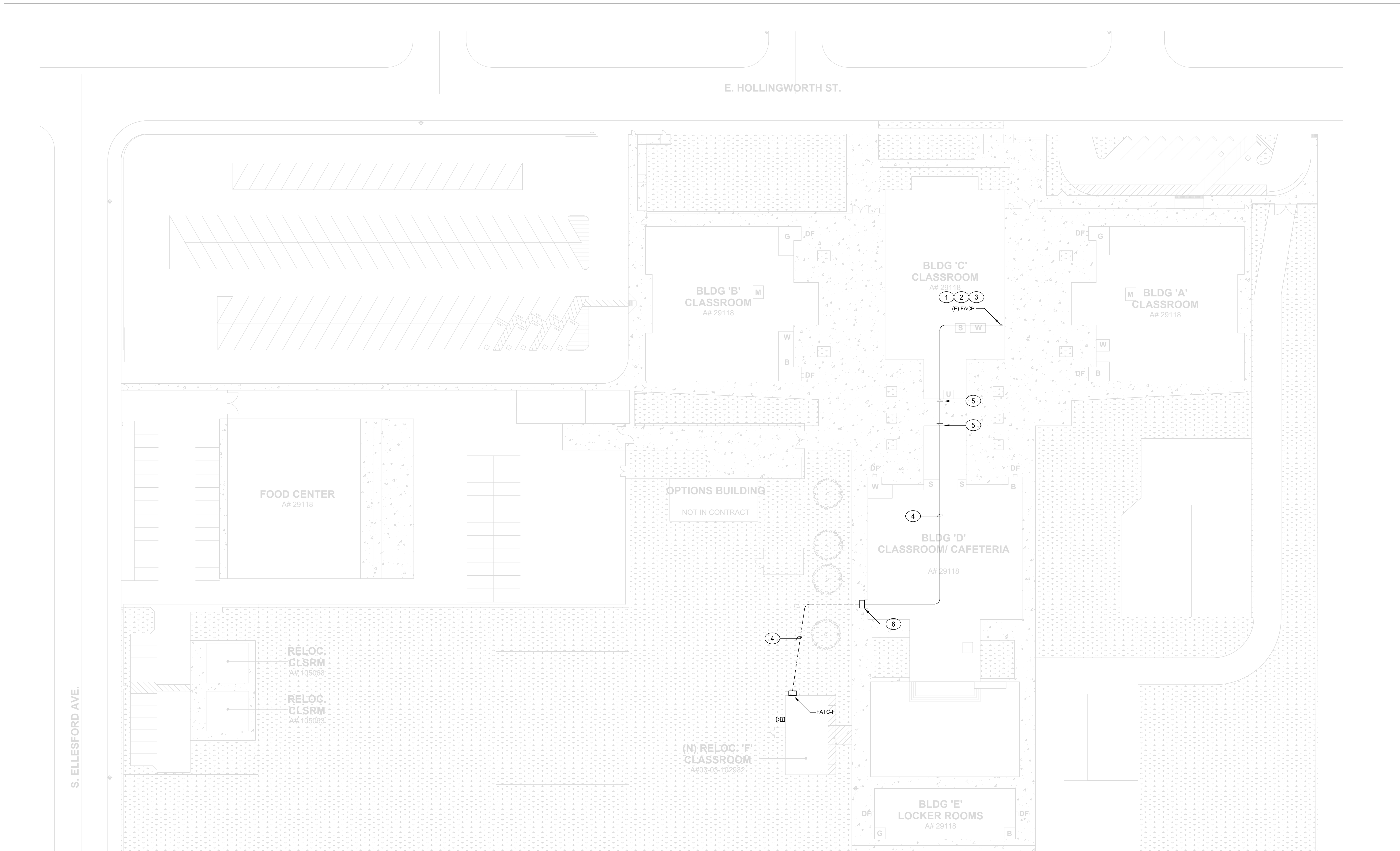
FA-1.01



THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED, IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.

NOTES:



**1** FIRE ALARM SITE PLAN  
 E1.01 SCALE: 1" = 30'-0"  
 NORTH

**GENERAL NOTES**

- ALL ITEMS SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- ALL CONDUITS INSIDE THE BUILDING SHALL BE CONCEALED IN ATTIC/CEILING SPACE.
- CONDUIT RUNS ARE DIAGRAMMATIC. PROVIDE PULLBOX(ES) TO COMPLY WITH NEC.
- TRENCH, COMPACT, BACKFILL AND RE-SURFACE TO MATCH EXISTING CONDITION.

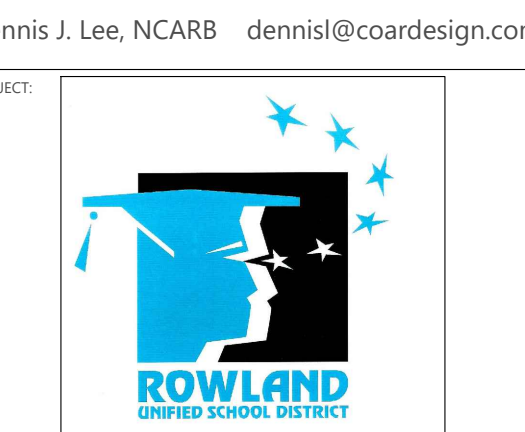
**KEYED NOTES**

- REMOTE MICROPHONE MOUNT ADJACENT TO ANNUNCIATOR PANEL.
- EXISTING FIRE ALARM CONTROL PANEL, REMOVE AND REPLACE ELECTRONIC DEVICES WITH NEW NOTIFIER NFS2-640 INCLUDING BUT NOT LIMITED TO DVC-EM, DAA-2 AMPLIFIER, AND MICROPHONE (VOICE EVACUATION SYSTEM FOR A COMPLETE OPERATING SYSTEM), RECONNECT ALL EXISTING DEVICES AND 120 VOLTS DEDICATED POWER SUPPLY.
- PROGRAM CONTROL PANEL TO COMBINE NEW AND EXISTING DEVICES. TEST NEW AND EXISTING DEVICES PER NFPA REQUIREMENTS.
- 2"Ø (1)FW, (1)AW, (1)S, (1)Z
- PROVIDE OZ GEDNEY SEISMIC BRACING FOR CONDUITS BETWEEN BUILDINGS. SEE DETAIL 4-FA.01.
- 16"X16"X4" PULLBOX IN NEMA 3R ENCLOSURE. MOUNT HIGH ON WALL.



**PACIFIC ENGINEERS GROUP**  
 Consulting MEP Engineers  
 1106 W. Magnolia Blvd., Suite A  
 Burbank, CA 91506  
 (818) 859-7081 Y23-268  
 info@pacificeng.net

ARCHITECT:  
**CO-AR DESIGN, INC.**  
 680 Brea Canyon Road, Suite 178  
 Diamond Bar, California 91789  
 Office: 909-598-0186  
 Dennis; J. Lee, NCARB dennis@coar-design.com



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS:  
 2800 E. HOLLINGWORTH ST.  
 WEST COVINA, CA 91792

CLIENT:  
 ROWLAND UNIFIED SCHOOL DISTRICT  
 1830 NOGALES STREET  
 ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS:  
 1 DSA PROGRESS 8/15/23

PROJECT NO: 201904  
 SCALE: AS SHOWN  
 DATE: 8/7/2023  
 DRAWN BY: ED / FW  
 CHECKED BY: DL

**FIRE ALARM SITE PLAN**

SHEET NO:  
**FA-2.0**

B:\MSD\COM-CONF-23 - BIM\BIM\Basic for Arch\Arch\23-09-09\230909-01\FD-FireAlrm-RelocSantana 2023 Monday, August 7, 2023 2:33 PM



**KEYED NOTES**

- ① PROVIDE CONTROL MODULE IN A/C UNIT CONTROL COMPARTMENT AND CONNECT TO A/C CONTROLLER FOR A/C AUTOMATIC SHUT-OFF.
- ② PROVIDE (1)20A-1P CIRCUIT BREAKER AT EXISTING PANEL. MATCH TYPE AND A.I.C. RATING OF (E) BREAKERS. PROVIDE LABEL TO READ "FIRE ALARM". PROVIDE "LOCK-ON" DEVICE ON CIRCUIT BREAKERS.

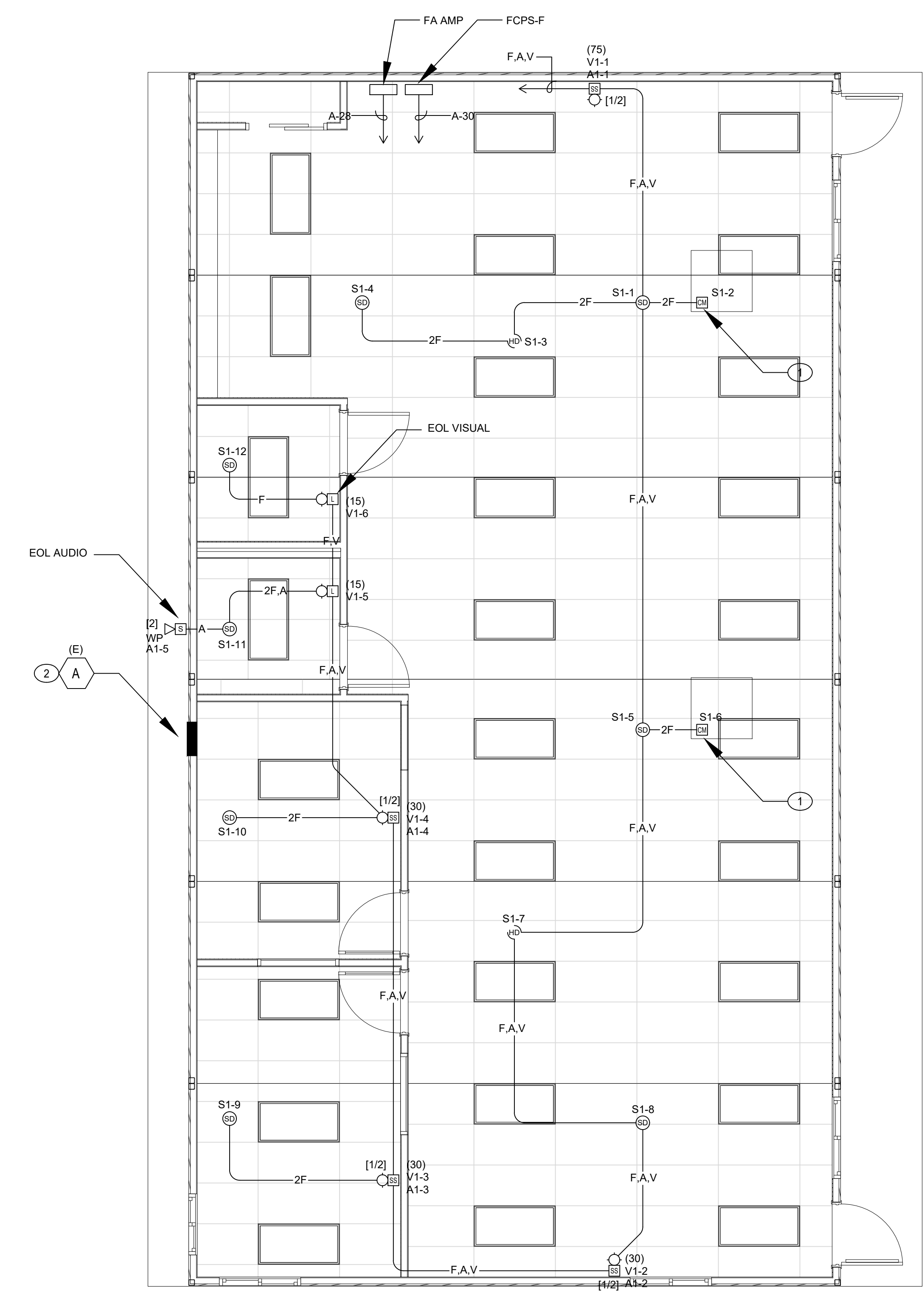
**GENERAL NOTES**

- 1. ALL ITEMS SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- 2. ALL CONDUITS INSIDE THE BUILDING SHALL BE CONCEALED IN ATTIC/CEILING SPACE.
- 3. CONDUIT RUNS ARE DIAGRAMMATIC. PROVIDE PULLBOX(ES) TO COMPLY WITH NEC.

DSA APPROVAL STAMP

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR COMMERCIALY EXPLOITED IN WHOLE OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD.

COPYRIGHT © 2023 CO-AR DESIGN, INC. ALL RIGHTS RESERVED.  
NOTES:



**1** RELO FIRE ALARM PLAN  
FA-3.0 SCALE: 1/4" = 1'-0" 0 4 8 FT. NORTH



**PACIFIC ENGINEERS GROUP**  
Consulting MEPF Engineers  
1106 W. Magnolia Blvd., Suite A  
Burbank, CA 91506  
(818) 859-7081 Y23-268  
info@pacificeng.net

ARCHITECT:  
**CO-AR DESIGN, INC.**  
680 Brea Canyon Road, Suite 178  
Diamond Bar, California 91789  
Office: 909-598-0186  
Dennis J. Lee, NCARB dennisl@coar.design.com



**RELOCATION OF 1 - PORTABLE CLASSROOM FROM SANTANA HIGH TO TELESIS ACADEMY**

ADDRESS:  
2800 E. HOLLINGWORTH ST.  
WEST COVINA, CA 91792  
CLIENT:  
ROWLAND UNIFIED SCHOOL DISTRICT  
1830 NOGALES STREET  
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS:  
1 DSA PROGRESS 8/15/23

PROJECT NO: 201904  
SCALE: AS SHOWN  
DATE: 8/7/2023  
DRAWN BY: ED /FW  
CHECKED BY: DL

SHEET TITLE:  
**RELO FIRE ALARM PLAN**

SHEET NO:  
**FA-3.0**







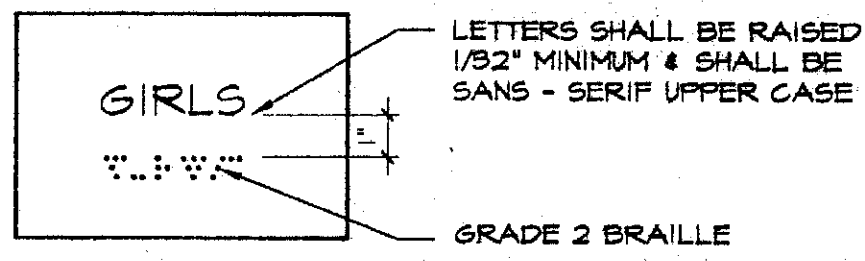
DISTRICT HAS COMPLETED CONSTRUCTION OF D.S.A. APPROVED PLANS FOR ACCESSIBLE TOILETS (STUDENTS & FACULTY).

ALL REQUIREMENTS CONFORM EXCEPT FOR THE FOLLOWINGS:

1. PROVIDE BRAILLE SIGNS (SEE DETAILS ON THIS SHEET) - BY DISTRICT.
2. PROVIDE THE U SHAPE / LOOP HANDLE IMMEDIATELY BENEATH THE LATCH AT TOILET STALL COMPARTMENT DOOR (DISABLED PERSONS STALL) - BY DISTRICT.

NOTES

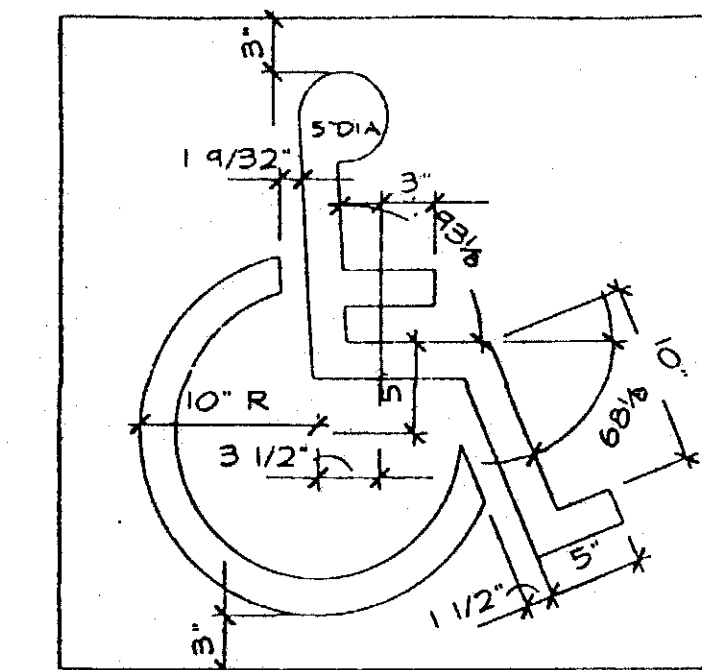
1. LETTER & BRAILLE SHALL BE WHITE.
2. BACKGROUND COLOR AS SELECTED BY ARCHITECT.
3. MOUNT AT 60" ABOVE FLR. ON LATCH SIDE OF DOOR.



TYPICAL ROOM IDENTIFICATION SIGN

NO SCALE

①



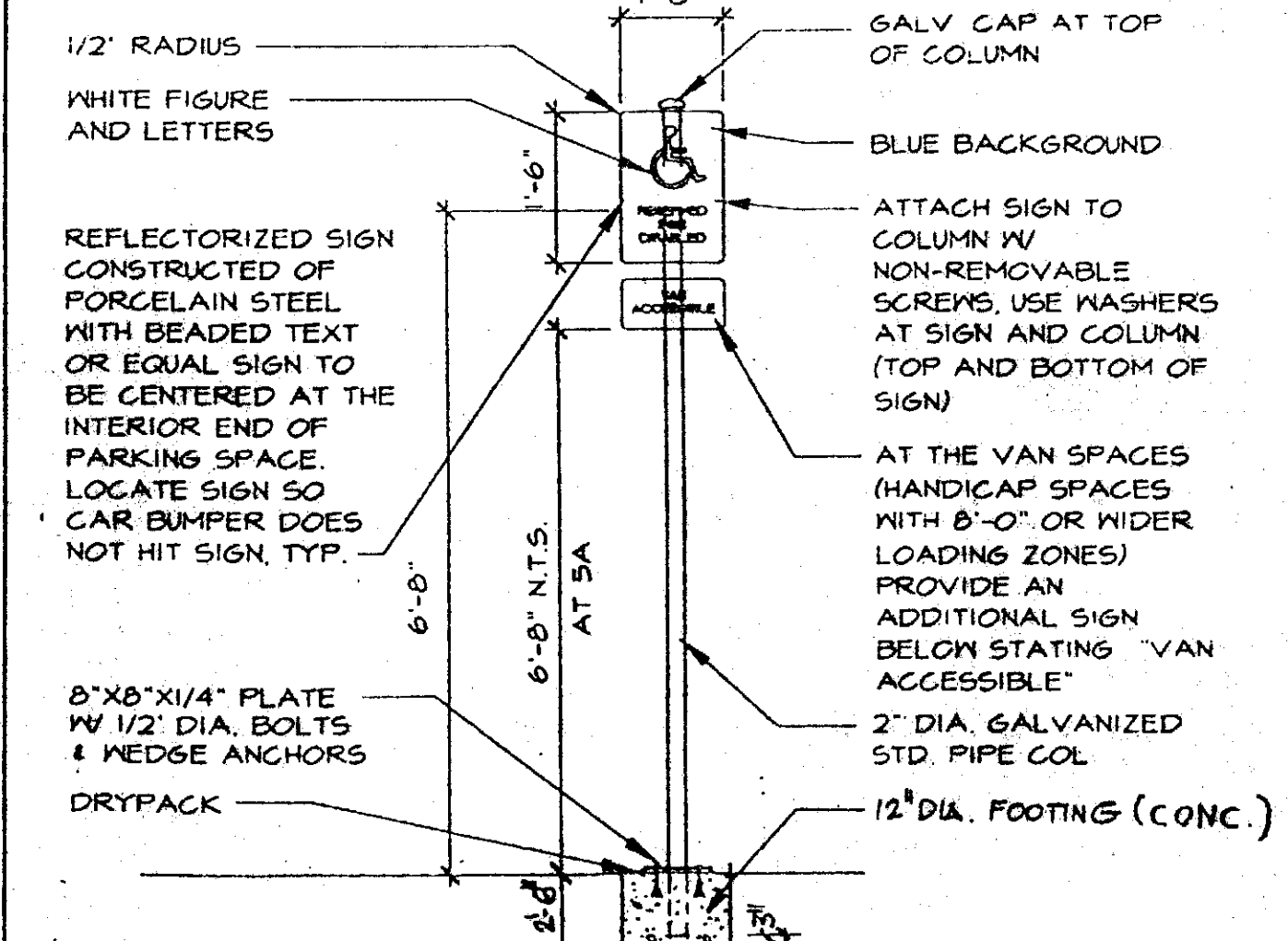
NOTES

1. SYMBOL PAINTED HIGHWAY WHITE (TWO COATS)
2. BACKGROUND PAINTED BLUE. EQUAL TO COLOR #15040 IN FED. STD. 595A
3. SYMBOL MEASURES 3'-0" SQUARE

DISABLED SYMBOL

NO SCALE

②



ADA ACCESSIBLE SIGN

NO SCALE

③

ACCESS COMPLIANCE (AC) PLAN SUBMITTAL CHECKLIST FOR RELOCATABLE CLASSROOM BUILDINGS

YOU MUST HAVE AT LEAST ONE "YES" IN EACH CATEGORY LISTED BELOW:

	YES	NO
Has the District completed construction of DSA approved plans for at least one "Van Accessible" parking space for persons with disabilities? If YES, the DSA application number (over 44009) is <u>60, 217</u> If NO, are the new or alteration construction plans attached which meet all required features listed in the Workshop Manual? If NO, does the District have an ADA Transition Plan or a DSA approved modernization plan for this site? If NO, is this the first relocatable classroom project on this site since January 1, 1992?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the District completed construction of DSA approved plans for at least one pair of (Men/Women or Boys/Girls) accessible toilets? If YES, the DSA application number (over 44009) is <u>54, 505</u> If NO, are the new or alteration construction plans attached which meet all required features listed in the Workshop Manual? If NO, does the District have an ADA Transition Plan or a DSA approved modernization plan for this site? If NO, is this the first relocatable classroom project on this site since January 1, 1992?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the District completed construction of DSA approved plans for at least one drinking fountain? If YES, the DSA application number (over 44009) is <u>54, 505</u> If NO, are the new or alteration construction plans attached which meet all required features listed in the Workshop Manual? If NO, does the District have an ADA Transition Plan or a DSA approved modernization plan for this site? If NO, is this the first relocatable classroom project on this site since January 1, 1992?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Have you indicated (by a dotted line) in the site plan above an existing DSA approved accessible route for persons with disabilities which identifies a barrier-free route from the accessible van parking space to each of the relocatable classroom(s) and which has no sudden change in elevation over 1/8 inch at 1:2 pitch, and which includes and indicates each ramp, special access lift, or elevator on the route complying with Part 2, Title 24? If YES, the DSA application number (over 44009) is <u>60, 217</u> If NO, are the new or alteration construction plans attached? If NO, does the District have an ADA Transition Plan or a DSA approved modernization plan for this site? If NO, is this the first relocatable classroom project on this site since January 1, 1992?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is/are the relocatable classroom(s) pre-approved by DSA? If YES, the DSA PC number is <u>215</u> If NO, is this project limited to the following building types? Please check: <input type="checkbox"/> PC <input type="checkbox"/> H&CD 197A <input type="checkbox"/> DSA CONFORMING (Plans must be attached)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

STRUCTURAL SAFETY PLAN SUBMITTAL CHECKLIST FOR RELOCATABLE CLASSROOM BUILDINGS

BUILDING DATA - New DSA Conforming Relocatable

PC No. #295 Manufacturer PROFILE STRUCTURE

Design Roof Live Load 20 psf REDUCIBLE

Design Roof Snow Load N/A psf

Design Floor Live Load 50 psf

Design Wind Speed 10 mph Exposure Category C

Design Seismic Zone 4

Test & Inspection Requirements

<input checked="" type="checkbox"/> Sample & test steel	<input checked="" type="checkbox"/> Shop fabrication inspection	<input checked="" type="checkbox"/> Grounding
<input checked="" type="checkbox"/> Shop welding	<input type="checkbox"/> Field welding	<input checked="" type="checkbox"/> Expansion Anchors
<input checked="" type="checkbox"/> Concrete compression	<input type="checkbox"/> Engineered Fill	

SITE DATA

Site Roof Snow Load N/A psf

Site Wind Speed 10 mph Exposure Category C

Site Seismic Zone 4

Foundation Design Wind Speed 10 mph Exposure Category C

Design Soil Pressure 1000 psf (If greater than 1000psf, provide site Soils Report)

NO concrete, asphalt, or earth abutting frame or siding?  Yes  No

Undisturbed ground slope  $\leq$  10%?  Yes  No

Retaining wall heights  $\leq$  4'?  Yes  No

Retaining walls are NOT closer than twice the retaining wall height to the building foundation?  Yes  No N/A

Fill height  $\leq$  2'?  Yes  No N/A

If NO, grading plan per §3301.1; Engineered Fill inspection required?  Yes  No

Existing utilities adequate?  Yes  No

Positive drainage provided?  Yes  No

Underfloor ventilation provided per §2317A.7?  Yes  No

Minimum clearance under structure  $\geq$  2'27"  Yes  No

Separation between structures  $\geq$  2'27"  Yes  No

Closure between structures, if provided, allows movement?  Yes  No

Electrical connections between structures allow movement horizontally?  Yes  No

Access provided to all underfloor utilities?  Yes  No

FIRE & LIFE SAFETY (FLS) PLAN SUBMITTAL CHECKLIST FOR RELOCATABLE CLASSROOM BUILDINGS

	YES	NO
Property Lines, Dimensions, Const. Type, Area, Occupancy, Loads Shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire Access Shown - Local Fire Authority Review Block Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FLS Standard Site Plan: A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> (check)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FLS Non-Standard Site Plan - Reduced Separation/Area Increase Justified	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire Alarm Panel, Pull Stations, Audible Devices, Detectors Shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Current SFM Listing Numbers For New Fire Alarm Equipment Shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire Alarm System Type: Manual <input type="checkbox"/> Automatic <input checked="" type="checkbox"/> (check)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire Alarm System Design Options (check below)		
New "Stand Alone" SFM Approved and Listed Fire Alarm System Building/Group $\geq$ 20 ft. From Others	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Method of Communication Provided		
SFM Listed Fire Alarm Devices Connected to (E) Fire Alarm Circuit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worst Case Voltage Drop $\leq$ 10% (Ohm's Law)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Amp Hours Required $\geq$ 7.01 <input checked="" type="checkbox"/> Provided <u>7.01</u> (fill in)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(E) Device Audible in Classroom - (E) Fire Alarm Pull Station $\leq$ 200 ft.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Fire Alarm System Modifications - Explain:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Test of Fire Alarm System in Presence of Fire Authority to be Conducted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NFPA "Certificate of Compliance" Form to be Submitted to ORS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Means of Evacuation Provided (fire authority concurrence required)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explain:		

APPLICABLE CODES AS OF JULY 1, 1999

1998 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.  
1998 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24 C.C.R.  
[1997 UNIFORM BUILDING CODE VOLUMES 1-3 & 1998 CALIFORNIA AMENDMENTS]  
1998 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 C.C.R.  
[1997 NATIONAL ELECTRICAL CODE AND 1998 CALIFORNIA AMENDMENTS]  
1998 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.  
[1997 UNIFORM MECHANICAL CODE AND 1998 CALIFORNIA AMENDMENTS]  
1998 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 C.C.R.  
[1997 UNIFORM PLUMBING CODE AND 1998 CALIFORNIA AMENDMENTS]  
1998 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24  
[1997 UNIFORM FIRE CODE AND 1998 CALIFORNIA AMENDMENTS]  
1998 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.  
1990 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	1996 EDITION
NFPA 14	STANDPIPE SYSTEMS	1996 EDITION
NFPA 17A	NET CHEMICAL SYSTEMS	1994 EDITION
NFPA 24	PRIVATE FIRE MAINS	1996 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED)	1996 EDITION (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
NFPA 258	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	1996 EDITION
NFPA 2001	CLEAN ASSENT FIRE EXTINGUISHING SYSTEMS	1994 EDITION

REFER CODE SECTION FOR NFPA STANDARDS - CBC (SFM) 3504.1

LOCAL FIRE AUTHORITY REVIEW

ACCESS ROADS & GATE ENTRANCES ARE IN COMPLIANCE WITH 19, CALIFORNIA CODE OF REGULATIONS SUBCHAPTER 1, ARTICLE 3.05 ACCESS ROADS AND 3.16, GATE ENTRANCES TO SCHOOL GROUNDS.

APPROVAL ISSUED BY: \_\_\_\_\_ IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

RANK/TITLE: \_\_\_\_\_ APPROX. 102932

DATE: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_ DATE: NOV 17 1999

ARCHITECTURAL	DSA
ELECTRICAL	MECHANICAL
	CIVIL

DATE: 01/24/00  
DRAWN BY: JTB  
CHECKED BY: JTB  
PREPARED BY: JTB

DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
PREPARED BY: \_\_\_\_\_

TITLE SHEET, VICINITY MAP, INDEX OF DRAWINGS, SITE PLAN

A. ADOLPH ZIEMBA, AIA & ASSOCIATES, INC.  
111 N. FIRST STREET, SUITE 304, JOLIET, IL 61708  
PHONE (815) 941-2866 FAX (815) 941-7788

SANTANA CONTINUATION HIGH SCHOOL  
1006 OTTERBEIN STREET, ROLAND HEIGHT, CA 91746  
ROWLAND UNIFIED SCHOOL DISTRICT  
1932 VOGALES ST., ROLAND HEIGHT, CA 91746

①



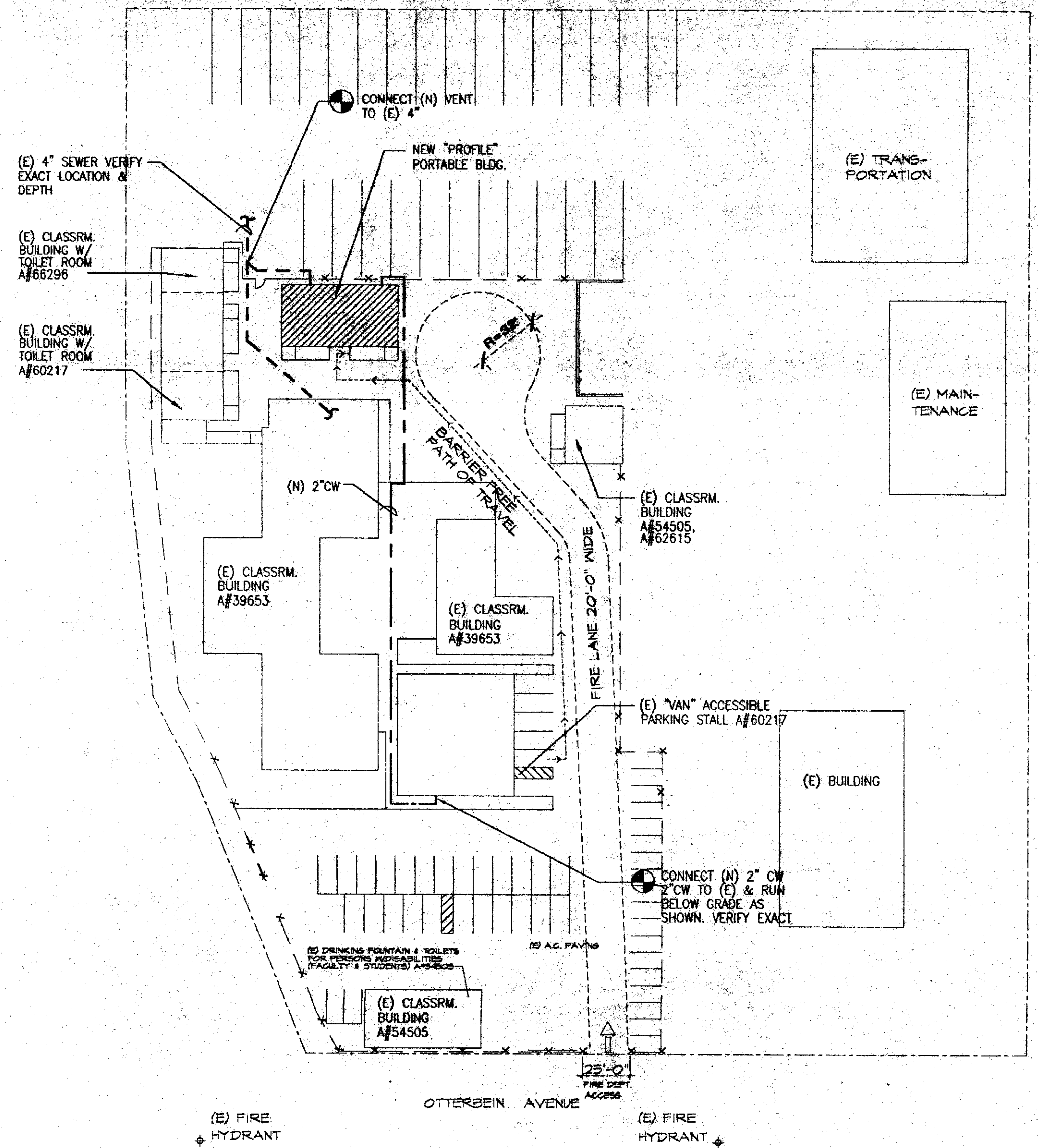






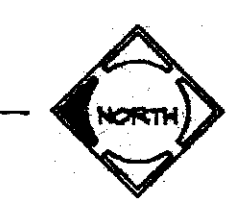


J:\1997-Santana Port. (P&S)\Pump-1.dwg P1, Nov 12 13:41:52 1999

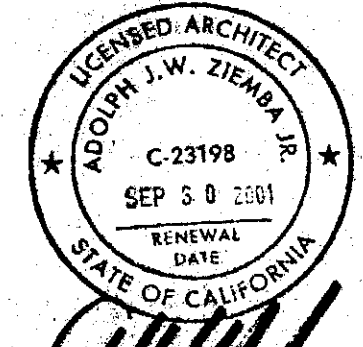


**PARTIAL SITE PLAN**

SCALE: 1" = 50' - 0"



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APPROX. 102932  
AC: [Signature]  
DATE: NOV 17 1999



**COMEAU ENGINEERS INC.**  
CONSULTING MECHANICAL ENGINEERS  
2900 RIVERSIDE DRIVE, SUITE #1  
LOS ANGELES, CA 90039-2013  
(TEL.) 323 665-5946  
(FAX) 323 665-1478

CHECKED BY	DATE
DRAWN BY	11-10-99
DESIGNED BY	JOB NO:
PREPARED BY	910905

NO.	DATE	REVISION	BY

**PARTIAL SITE PLAN**  
SANTANA CONTINUATION HIGH SCHOOL  
806 OTTERBEIN STREET, ROWLAND HEIGHT, CA 91745  
ROWLAND UNIFIED SCHOOL DISTRICT  
850 NOGALES BL., ROWLAND HEIGHT, CA 91745

**P-1**

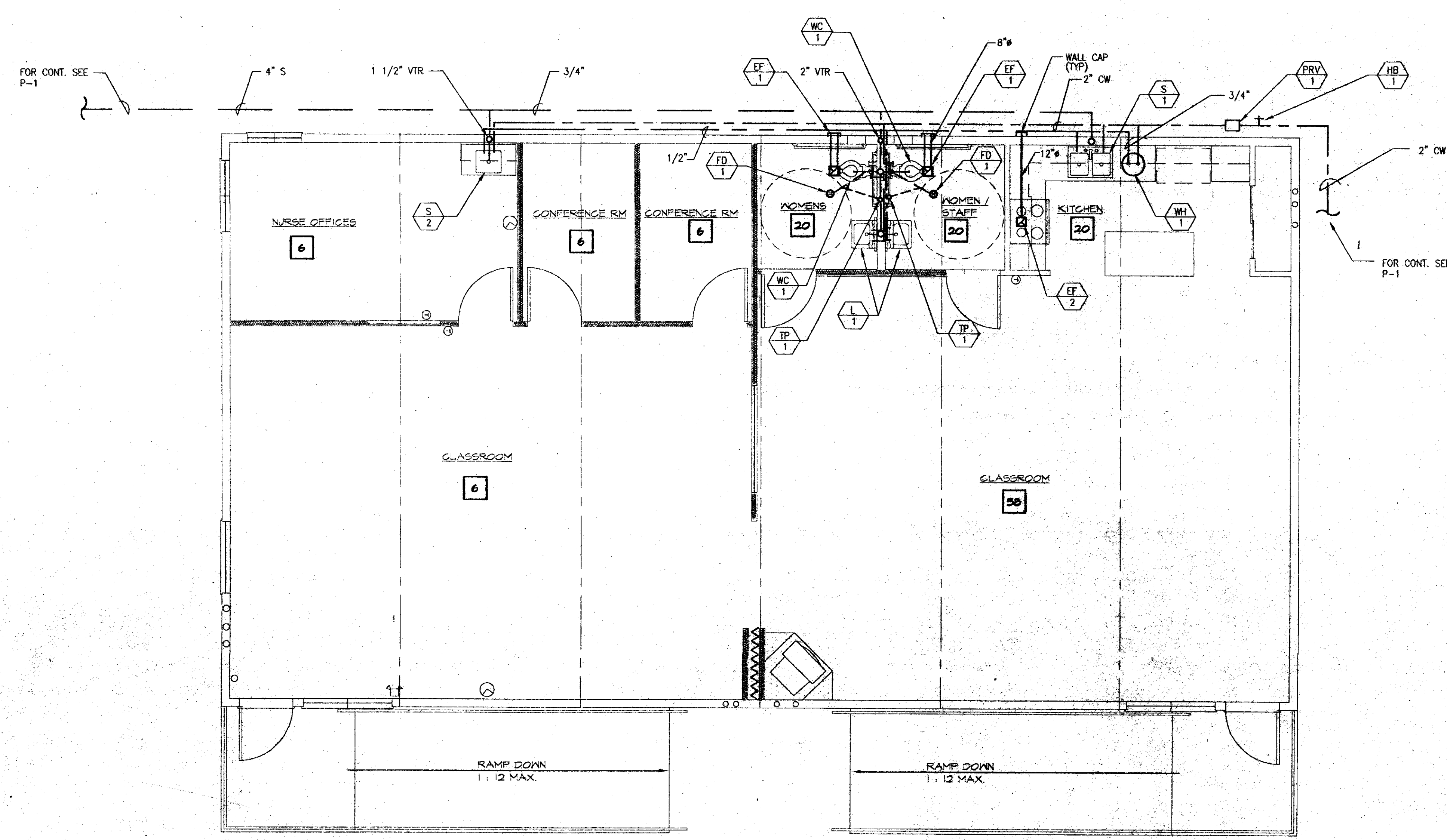
JAN 18 2000

DESIGNED BY ADOLPH ZIEMBA, AIA & ASSOCIATES, INC. 111 N. FRONT STREET, SUITE 804, BERRINGHAM, CA 91808  
PHONE (916) 841-888 FAX (916) 841-7788  
CONSULTING MECHANICAL ENGINEERS AND ARCHITECTS  
THIS DOCUMENT IS THE PROPERTY OF ADOLPH ZIEMBA, AIA & ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE FOR WHICH IT WAS PREPARED. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF ADOLPH ZIEMBA, AIA & ASSOCIATES, INC. THE USER SHALL BE RESPONSIBLE FOR ALL DIMENSIONS OF THE JOB UPON RECEIPT OF ANY VARIATION, DISCREPANCY, OR ERROR.



J. 15527-Santana Inc. (RUS) VP/Jan 12-2000 Fri, Jan 12, 10:46:05 AM 1999

**FLOOR PLAN**



PLUMBING ROUGH-IN SCHEDULE							
SYMBOL	FIXTURE	W	T	V	CW	HW	REMARKS
WC 1	WATER CLOSET	4"	INT.	2"	1"	-	FLOOR MTD. FLUSH VALVE, 1.6 GPF, ADA-COMPLIANT
L 1	LAVATORY	2"	1 1/2"x1 1/4"	2"	1/2"	1/2"	WALL HUNG W/ CONCEALED ARM SUPPORT
S 1	SINK, KITCHEN	2"	2"	2"	1/2"	1/2"	
S 2	SINK, NURSE	2"	2"	2"	1/2"	1/2"	
FD 1	FLOOR DRAIN	2"	2"	1 1/2"	-	-	W/ TRAP PRIMER
HB 1	HOSE BIBB	-	-	-	3/4"	-	RECESSED W/ VACUUM BREAKER & LOOSE KEY
TP 1	TRAP PRIMER	-	-	-	1/2"	-	INSTALL ON FLUSH VALVE TAILPIECE
PRV 1	PRESS. REDUCING VALVE	-	-	-	2"	-	

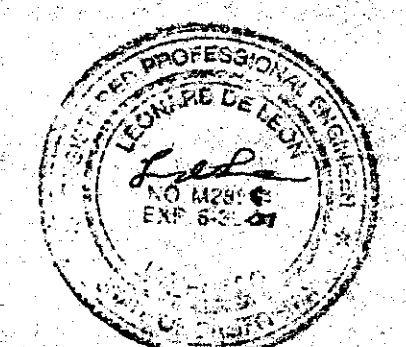
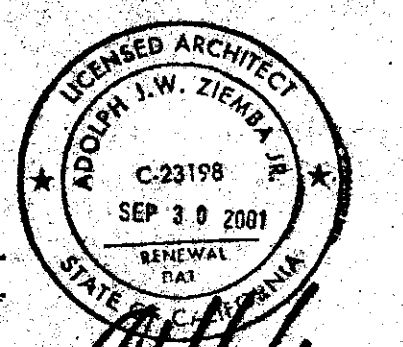
EQUIPMENT SCHEDULE	
WATER CLOSET-MARK WC-1:	AMERICAN STANDARD MADERA AQUAMETER MODEL #3043.102, 1.6 GPF TOILET. FIT WITH SLOAN ROYAL III FLUSH AND OLSONITE 95 FRONT SEAT LESS COVER.
LAVATORY-MARK L-1:	AMERICAN STANDARD 0355.012 LUCERNE WALL HUNG 20"x18" VITREOUS CHINA LAVATORY WITH A ZURN OR SMITH CONCEALED ARM SUPPORT, FITTED W/ A SYMONS SCOT S-60-GAH-IPS METERING FAUCET, A PAIR OF 1/2" ANGLE SUPPLIES WITH STOPS AND FLEXIBLE RISERS AND A 1 1/4x1 1/4 P TRAP.
KITCHEN SINK-MARK S-1:	JUST MODEL DL-ADA-1933-A-GR 19"x33"x6.5" DEEP TOP MOUNT DOUBLE (EQUAL) COMPARTMENT SINK WITH J-ADA-35 DRAIN SYSTEM FOR CENTER REAR DRAIN LOCATION. FIT WITH AMERICAN STANDARD RELIANT MODEL 4205-400 FAUCET, BASKET STRAINER AND IN-SINK-ERATOR CLASSIC 1HP STAINLESS STEEL GARBAGE DISPOSAL.
NURSE SINK-MARK S-2:	JUST MODEL SL-1921-B-GR WITH JTR-51-W FAUCET AND, J-35-SSF DRAIN, 20 GA STAINLESS STEEL 19"x21" W/ 14"x18"x7" DEEP INTERIOR DIMENSION. FIT WITH T&P VALVE, SET IN PAN.
WATER HEATER-MARK WH-1:	RHEEM MODEL 81VP65, 6 GALLON, 120V, 2000 WATTS. FIT WITH T&P VALVE, SET IN PAN.
FLOOR DRAIN-MARK FD-1:	ZURN 2-400, 2" WITH TRAP PRIMER CONNECTION.
HOSE BIBB-MARK HB-1:	CHICAGO NO. 387LF, LOOSE KEY, W/ VACUUM BREAKER, 3/4" SIZE.
TRAP PRIMER-MARK TP-1:	PPP OR SLOAN.
PRESSURE REDUCING VALVE-MARK PRV-1:	WILKINS 500 SERIES, 2"
TOILET EXHAUST FAN-MARK EF-1:	GEMINI MODEL GC340, 135 WATTS, 120V 232 CFM AT .125" SP. WITH 2CG-2 WALL CAP, CONNECT TO LIGHT SWITCH CIRCUIT.
EXHAUST FAN OVER RANGE-MARK EF-2:	GEMINI MODEL GC640, 350 WATT, 120V, 500 CFM @ .125" SP WITH MODEL FSC VARIABLE SPEED CONTROLLER & WCG-6 WALL CAP.

**MATERIALS:**

HOT & COLD WATER : TYPE K HARD DRAIN COPPER WITH LEAD-FREE JOINTS.

WASTE & VENT: CAST IRON NO. HUB

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APPL: 102932  
 DATE: NOV 17 1998



**DOMEAU ENGINEERS INC.**  
 CONSULTING MECHANICAL ENGINEERS  
 2900 RIVERSIDE DRIVE, SUITE #1  
 LOS ANGELES, CA 90039-2013  
 (TEL.) 323 665-5946  
 (FAX) 323 665-1478

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

CHECKED BY: AZ  
 DRAWN BY: FL  
 DESIGNED BY: AZ  
 PREPARED BY: AZ

DATE: 08/11/98  
 JOB NO: 100423

REVISION: BY DATE

FLOOR PLAN

SANTANA ALTERNATIVE EDUCATION CENTER  
 ROKLAND UNIFIED SCHOOL DISTRICT  
 1950 NOGALES ST., ROKLAND HEIGHT, CA 94745

ADOLPH ZIEMBA, AIA & ASSOCIATES, INC.  
 111 N. FIRST STREET, SUITE 204, BERKLEY, CA 94708  
 PHONE (415) 841-6868 FAX (415) 841-7708

P-19

JAN 18 2000





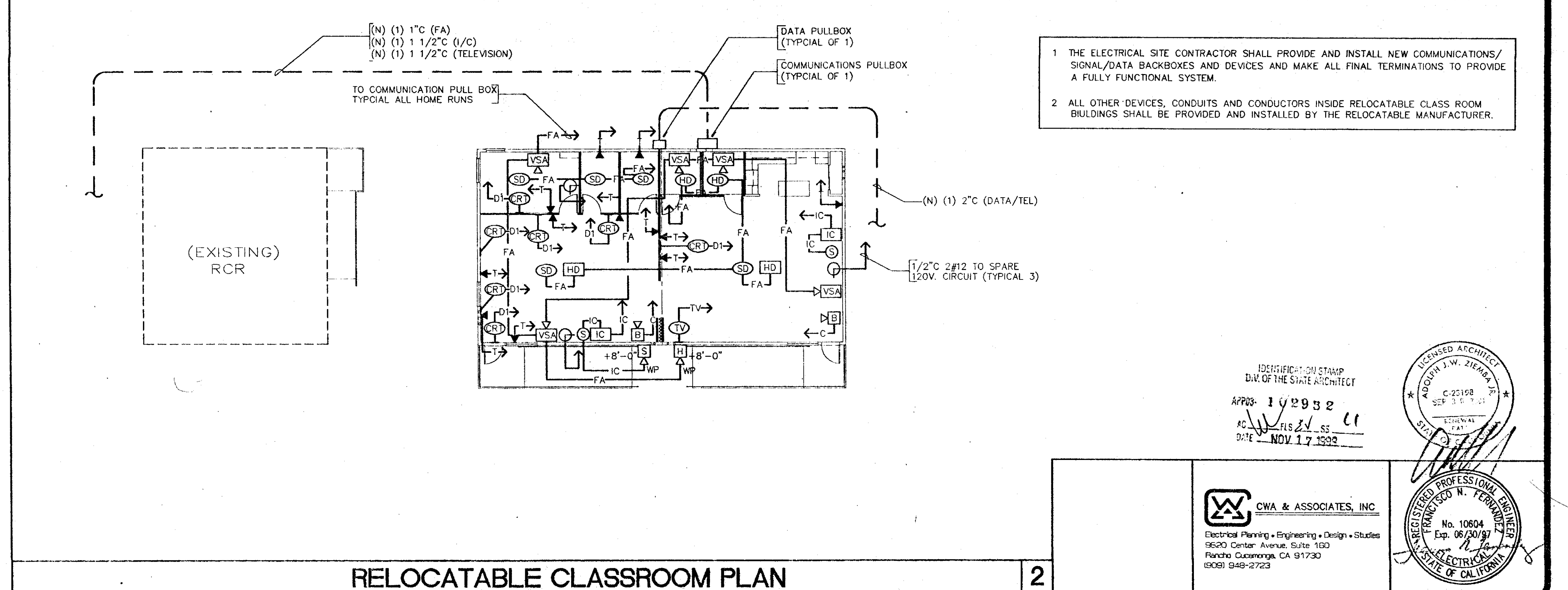
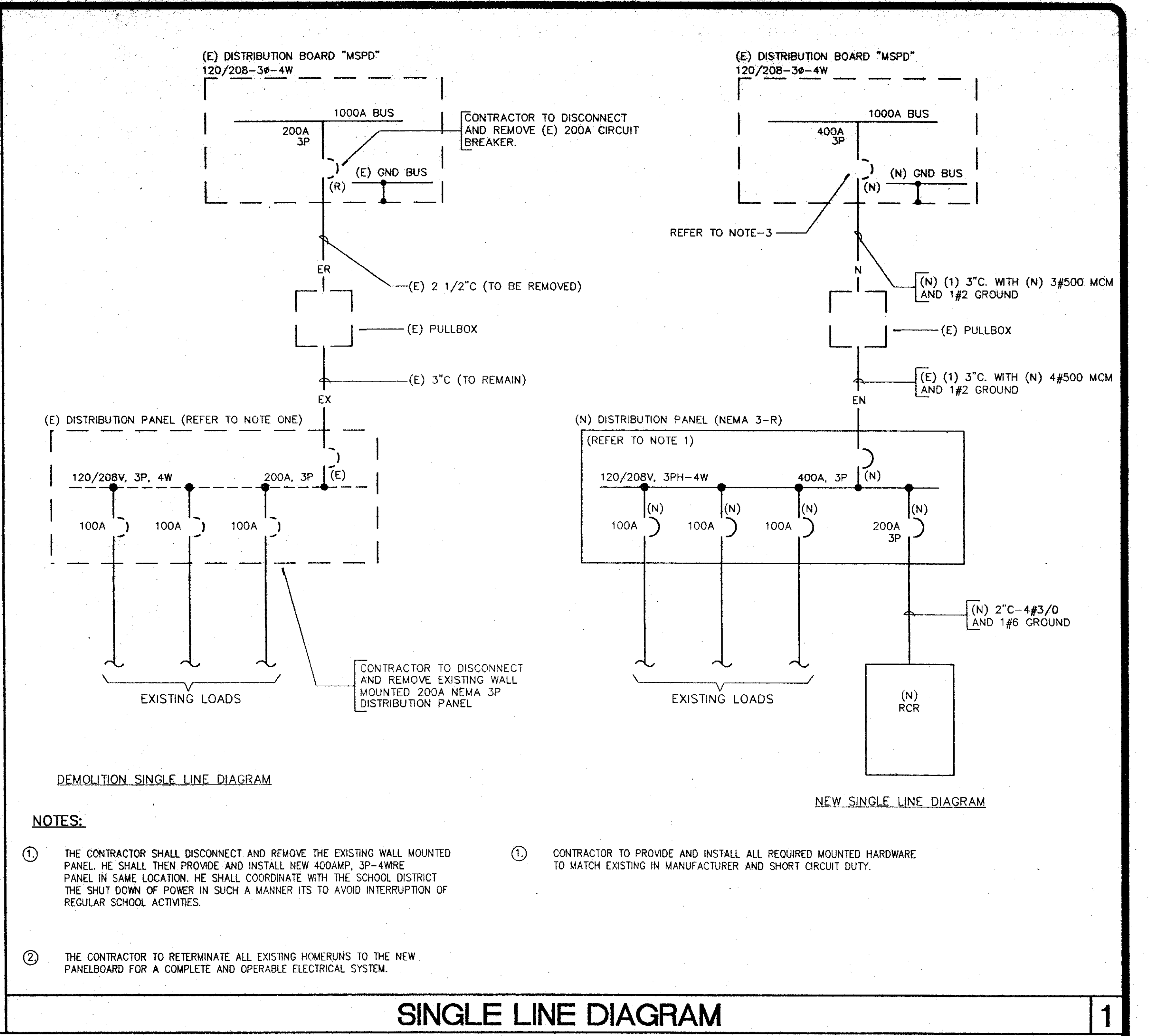


### GENERAL NOTES

- ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH-IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.
- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
- ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, TRANSFORMERS, MOTOR CONTROL CENTERS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE PART OF THIS CONTRACT.
- EXACT LOCATION OF ALL DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
- NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
- SCHOOL EQUIPMENT ANCHORAGE  
ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA:  
FIXED EQUIPMENT ON GRADE 20% OF OPERATING WEIGHT  
EMERGENCY POWER EQUIPMENT ON 27% OF OPERATING WEIGHT  
EMERGENCY POWER EQUIPMENT ON GRADE 40% OF OPERATING WEIGHT  
EMERGENCY POWER EQUIPMENT ON STRUCTURE  
FOR FLEXIBLY MOUNTED EQUIPMENT, USE 4 X THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 X HORIZONTAL FORCE.
- WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.
- USE OF POWER DRIVEN CONCRETE FASTENERS:  
USE OF POWER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.  
ALLOWABLE LOADS - IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR OR FIELD ENGINEER.  
TESTING - THE OPERATOR, TOOL AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.  
THESE REQUIREMENTS ARE TO BE NOTED ON THE PLANS, OR IN THE SPECIFICATIONS.
- PROOF LOAD TEST FOR EXPANSION, TYPE ANCHOR BOLTS (BOLTS MUST HAVE I.C.B.O. APPROVAL).  
ALL CONCRETE ANCHOR BOLT OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.  
TYPE OF MATERIALS      TYPE OF TEST      BOLT DIAMETER  
3/8"    1/2"    5/8"    3/4"  
HARD ROCK    DIRECT PULL-TENSION,LBS.    1300    2000    2900    4300  
CONCRETE    TORQUE WRENCH-TORQUE,FT.LBS.    25    50    110    150  
L.T.WT.    DIRECT PULL-TENSION,LBS.    970    1400    1950    2590  
CONCRETE    TORQUE WRENCH-TORQUE,FT.LBS.    20    35    75
- ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE ENGINEER, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
- THE CONTRACTOR SHALL VISIT THE SITE INCLUDING SPECIFICALLY ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
- SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS WILL NOT BE ALLOWED. SCHEDULED SHUT DOWNS SHALL BE COORDINATED WITH THE SCHOOL DISTRICT 48 HOURS IN ADVANCE.
- THIS CONTRACTOR SHALL COORDINATE ALL COMPONENTS AND WIRING TYPES TO MATCH EXISTING INTERCOM AND FIRE SYSTEM WITH THE SCHOOL DISTRICT PRIOR TO BID. AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.

### ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
[ ] (E)	DASHED SYMBOL WITH "E" ADJACENT INDICATES EXISTING EQUIPMENT TO REMAIN.
—E—	EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
—EN—	EXISTING CONDUIT WITH NEW CONDUCTORS.
—	CONDUIT RUN, CONCEALED IN CEILING, WALLS, OR UNDER FLOOR
---	CONDUIT RUN EXPOSED.
---	CONDUIT RUN UNDERGROUND.
	CROSS LINES ON CONDUIT RUNS INDICATED NUMBER #12 WIRES CONTAINED THEREIN. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN.
B-1,3	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
⊙	JUNCTION BOX.
WP	WEATHERPROOF.
[ ]	MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).
—	GROUND.
—FA—	FIRE ALARM CONDUIT, 3/4" C. WITH REQUIRED WIRING CONTAINED THEREIN.
[ VSA ]	FIRE ALARM VISUAL STROBE ANNUNCIATOR, MOUNT AT +8"-8" OR 6" BLOW CEILING, WHICHEVER IS LOWER. FARADAY/FOS #5508L WITH 24V DC STROBE, TO MATCH EXISTING.
[ HD ]	BUZZER, #5482686, MODEL PAL-328, PIEZZO BUZZER, TO MATCH EXISTING.
[ SD ]	HEAT DETECTOR, ATIC MOUNTED, SPRINT #S83128 (CHEMTRON HEAT BUTTON #602) TO MATCH EXISTING.
[ H ]	SMOKE DETECTOR, CEILING MOUNTED, SPRINT #S831311 WITH DS250TH WITH SB31312 BASE FOR DS250TH, TO MATCH EXISTING.
[ ]	FIRE ALARM EXTERIOR HORN (WEATHERPROOF).
[ ]	FIRE ALARM CONTROL PANEL FIRE LITE 1000 (EXISTING).
[ ]	INTERCOM HANDESET, TO MATCH EXISTING, MOUNT AT +48".
[ ]	TELEPHONE SYSTEM CONDUIT 3/4" C. WITH REQUIRED CABLES THEREIN.
[ ]	DATA SYSTEM CONDUIT, 3/4" C. WITH REQUIRED CABLES THEREIN. (4 PAIR, CATEGORY 5, LEVEL 5, DATA CABLES)
[ ]	TELEVISION SYSTEM CONDUIT 3/4" C. WITH REQUIRED CABLES THEREIN.
[ ]	INTERCOM SYSTEM CONDUIT, 3/4" C. WITH REQUIRED CABLES THEREIN.
[ ]	CLOCK SYSTEM CONDUIT, 1/2" C. UNLESS OTHERWISE NOTED.
[ ]	CLOCK AND BACKBOX, TO MATCH EXISTING.
[ ]	ALIAS SOUNDE MODEL E-13 (2-GANG BOX) WITH, ATLAS SOUNDE S-2003-3H SPEAKER PLATE, TO MATCH EXISTING.
[ ]	INTERCOM EXTERIOR SPEAKER AND BACKBOX (WEATHERPROOF), TO MATCH EXISTING.
U.N.O.	UNLESS OTHERWISE NOTED.
C.O.	CONDUIT ONLY.
X	POINT OF INTERCEPTION.



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APPROVED: 102932  
DATE: NOV 17 1992

CWA & ASSOCIATES, INC.  
Electrical Planning • Engineering • Design • Studies  
5620 Center Avenue, Suite 100  
Rancho Cucamonga, CA 91730  
(909) 948-2722

REGISTERED PROFESSIONAL ENGINEER  
No. 10694  
Exp. 06/30/97  
ELECTRICAL  
STATE OF CALIFORNIA

JAN 18 2000

REVISIONS	BY

**ADOLPH ZIEMBA, AIA & ASSOCIATES ARCHITECTS**  
111 North First Street, Suite 204, Burbank, CA. 91504  
PHONE: (818) 841-2585 FAX: (818) 841-7782

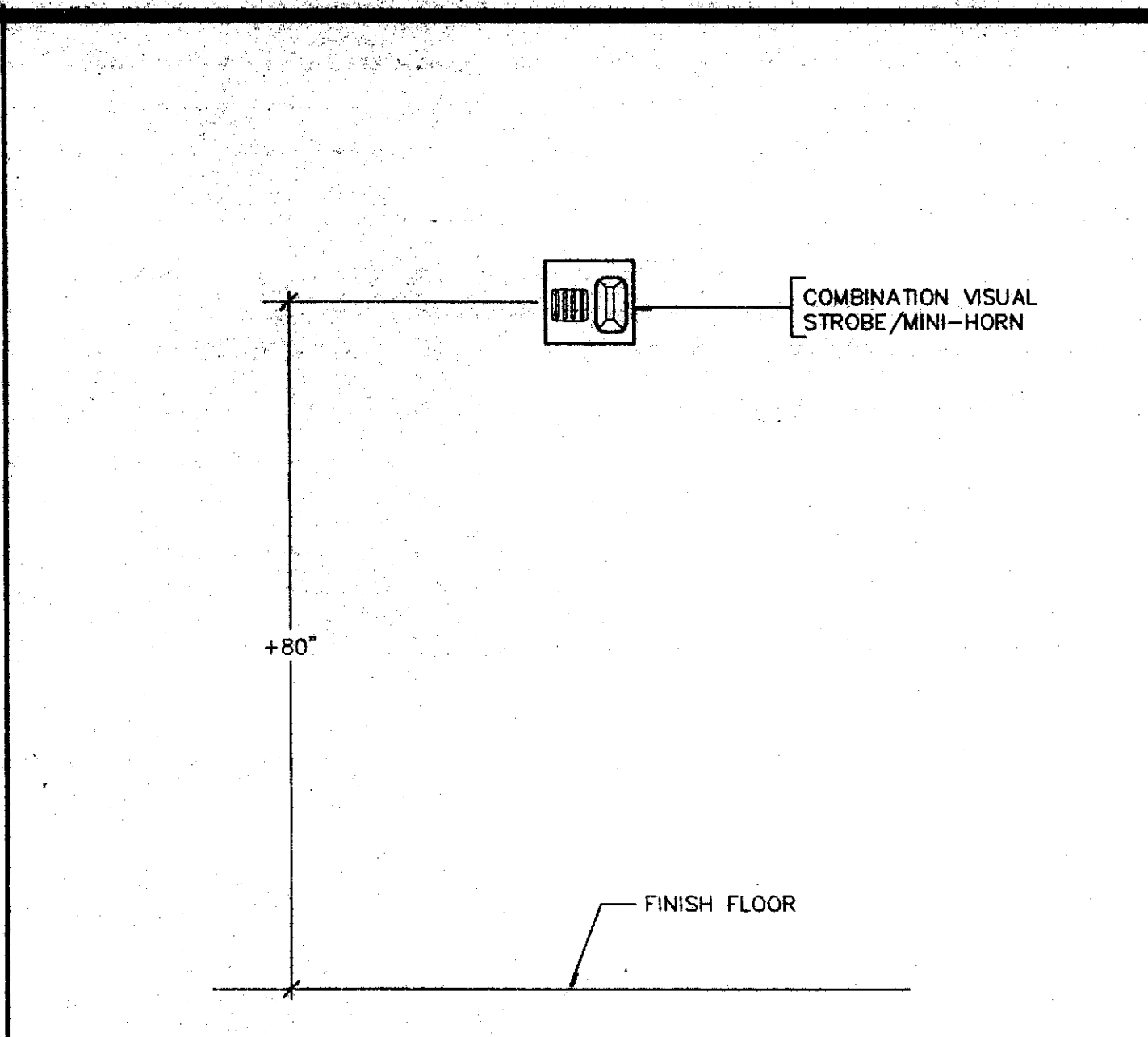
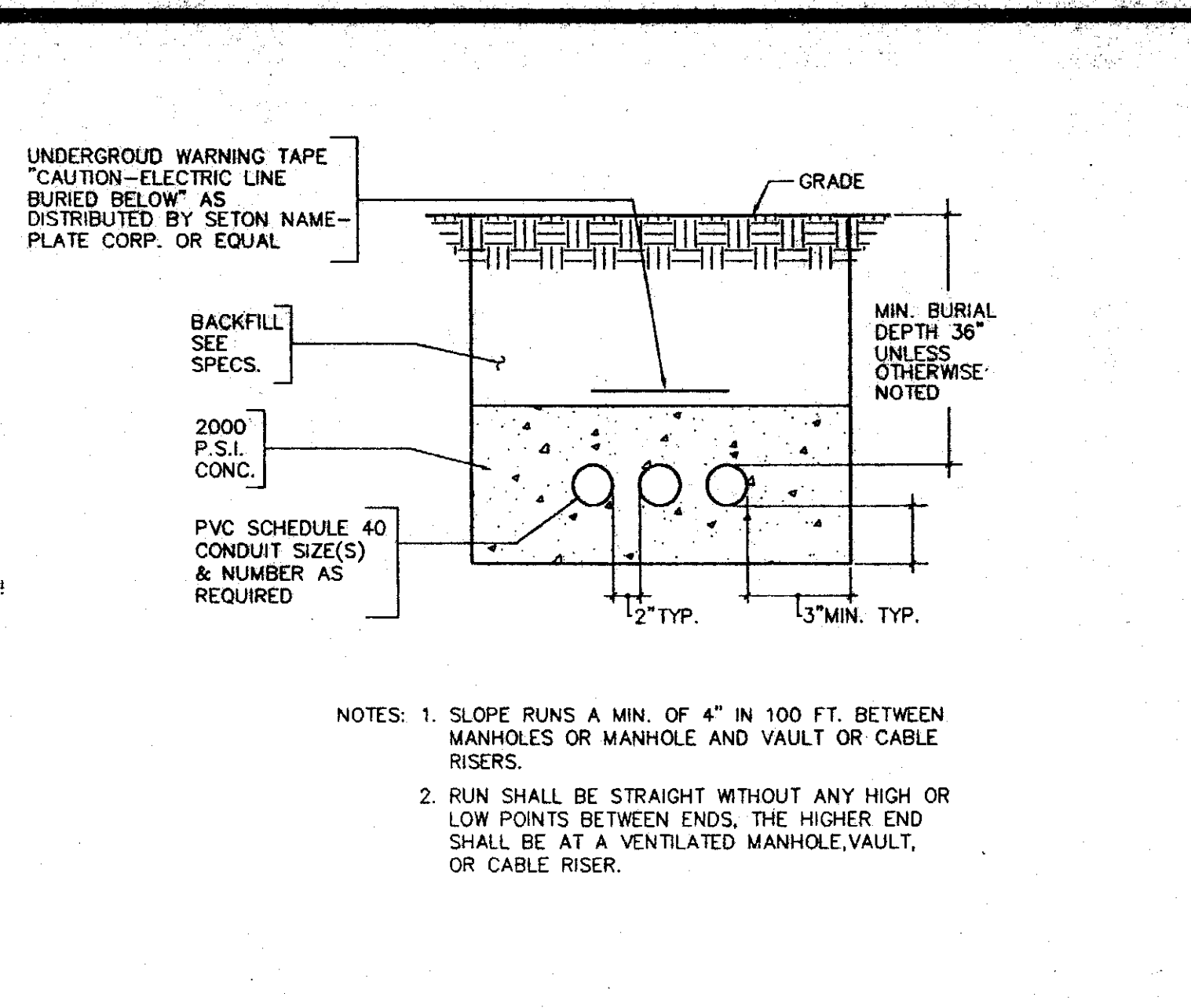
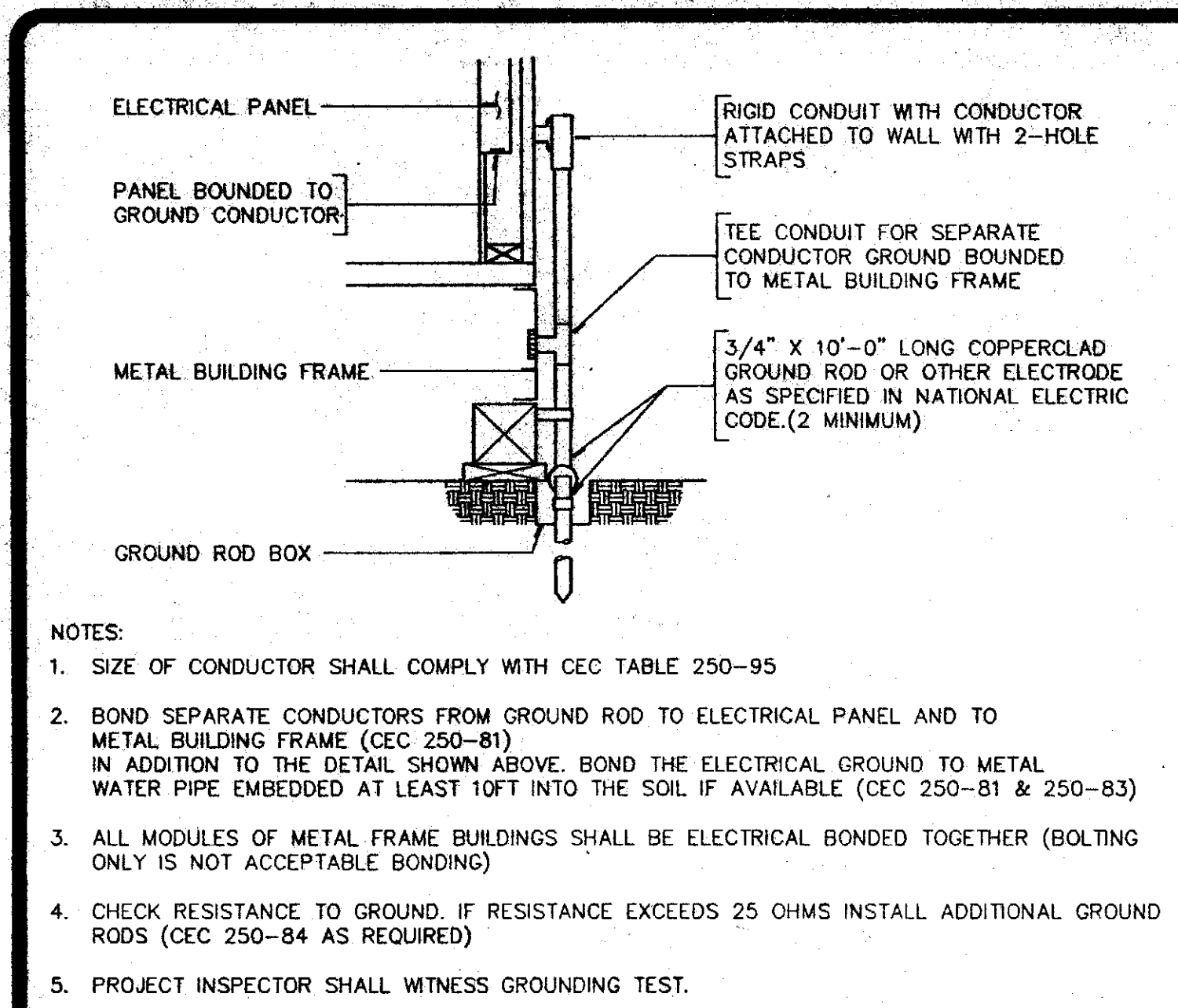
**ROWLAND UNIFIED SCHOOL DISTRICT**  
1018 Otterbein Street, Rowland Heights, Ca. 91748

**SANTANA HIGH SCHOOL**  
1006 Otterbein Ave. Rowland Heights

DRAWN	
CHECKED	
EF/CAW	
DATE	
SCALE	
NONE	
JOB NO.	
FILE NAME	
P-1583	
SHEET	
E-2	
OF 5 SHEETS	

PLOT DATE: 10/19/99



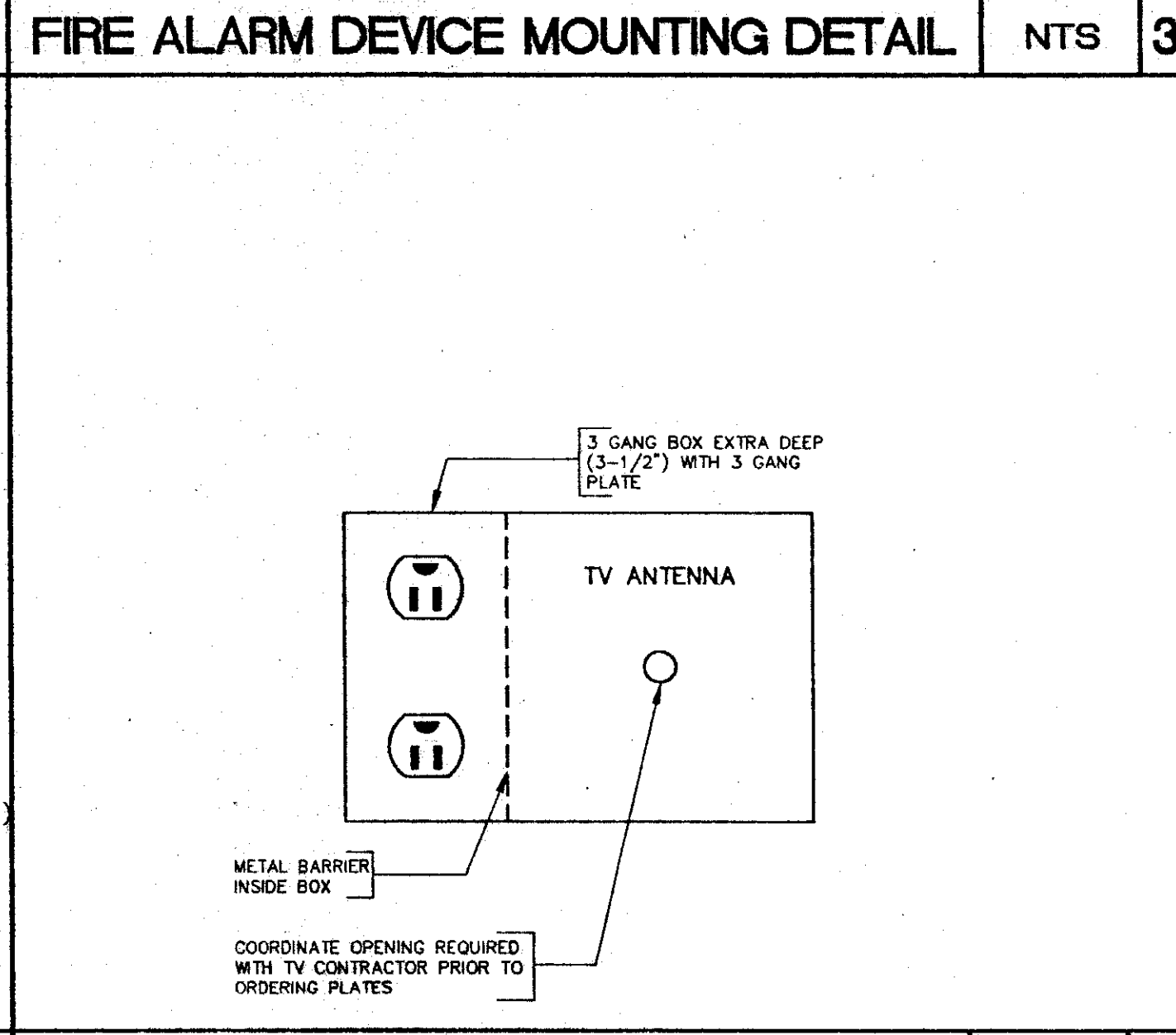
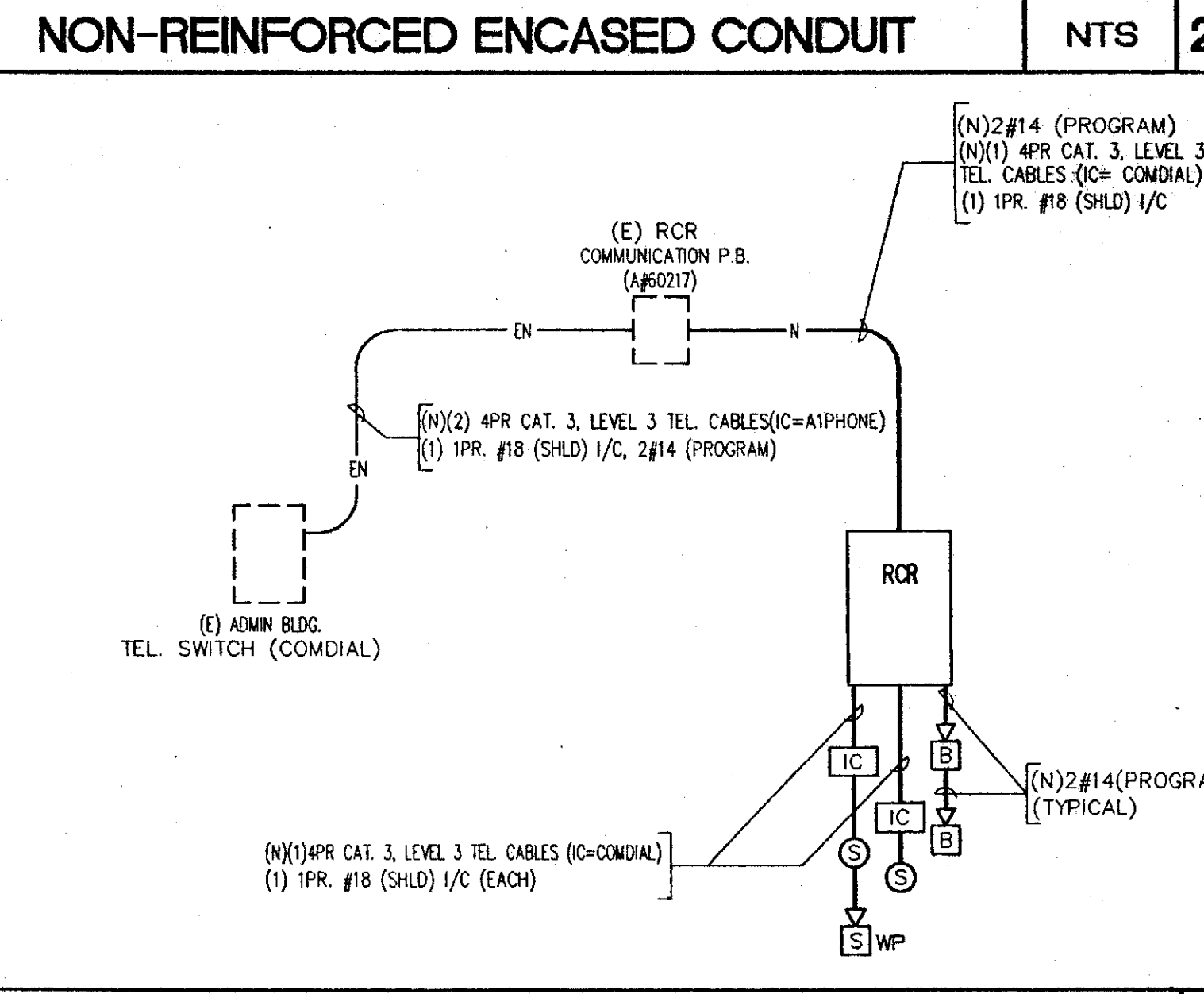
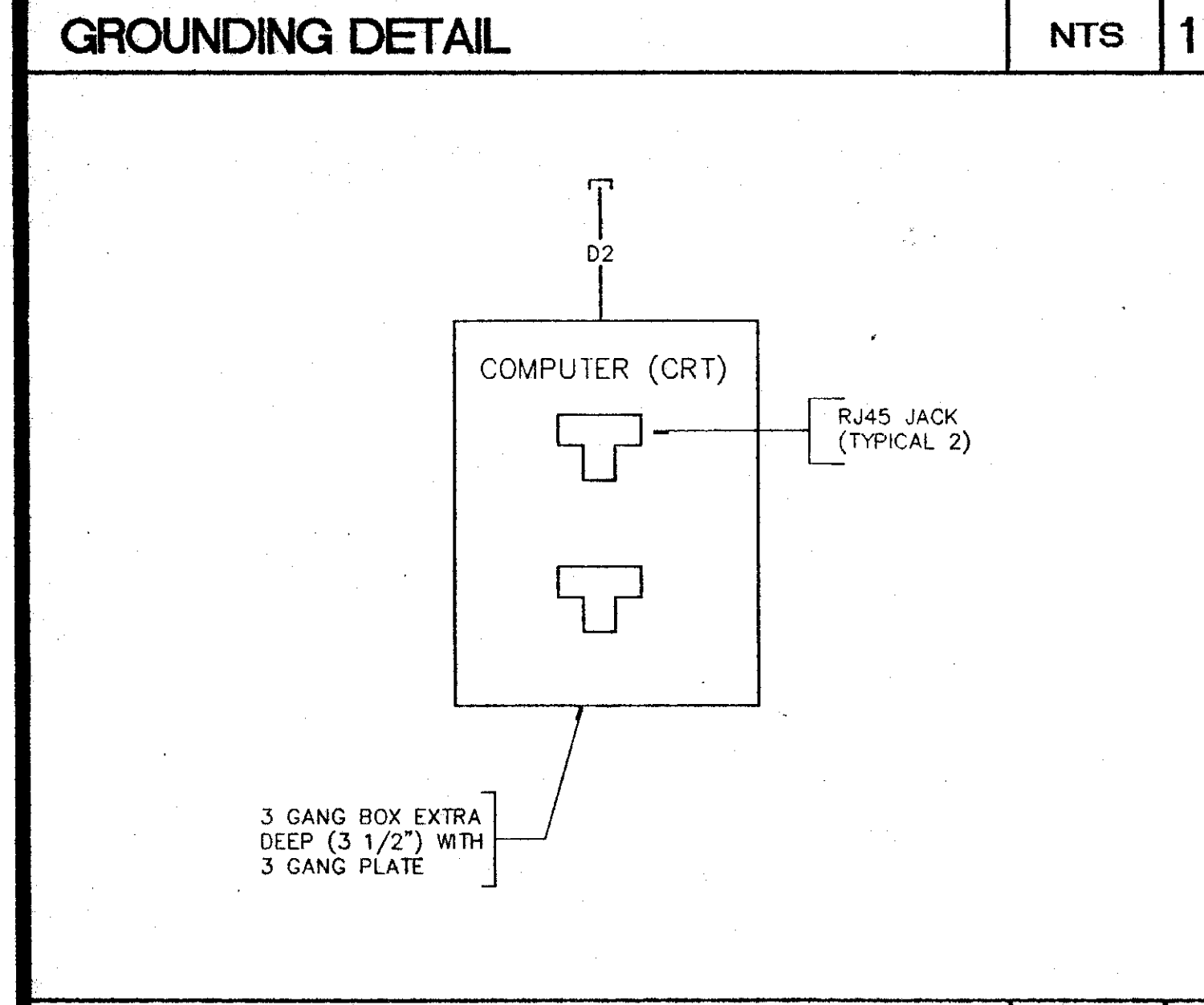


**NOTES**

1. REFER TO THE FIRE ALARM SYSTEM SPECIFICATION, FOR ADDITIONAL REQUIREMENTS.
2. REFER TO THE INTERCOMMUNICATIONS SYSTEM SPECIFICATION, FOR ADDITIONAL REQUIREMENTS.
3. REFER TO GENERAL NOTES, SHEET E-2, FOR ADDITIONAL REQUIREMENTS.
4. CONDUCTOR LENGTHS ARE FOR VOLTAGE DROP CALCULATIONS ONLY. ACTUAL LENGTHS SHALL BE DETERMINED IN THE FIELD.

**WORST CASE VOLTAGE DROP**

COMBINATION VISUAL STROBE/HORN	-QTY. 5 X 0.235 = 1.175A	TOTAL 1.175A
DISTANCE	440FT.	
VOLTAGE	24V. DC	
WIRE SIZE	#12 THWN SOLID (6530 CIRCULAR MILLS)	
$1.175 A \times 440 \text{ FT.} \times 21.6 \times 100 = 7.1\%$		
6530 CM 24		

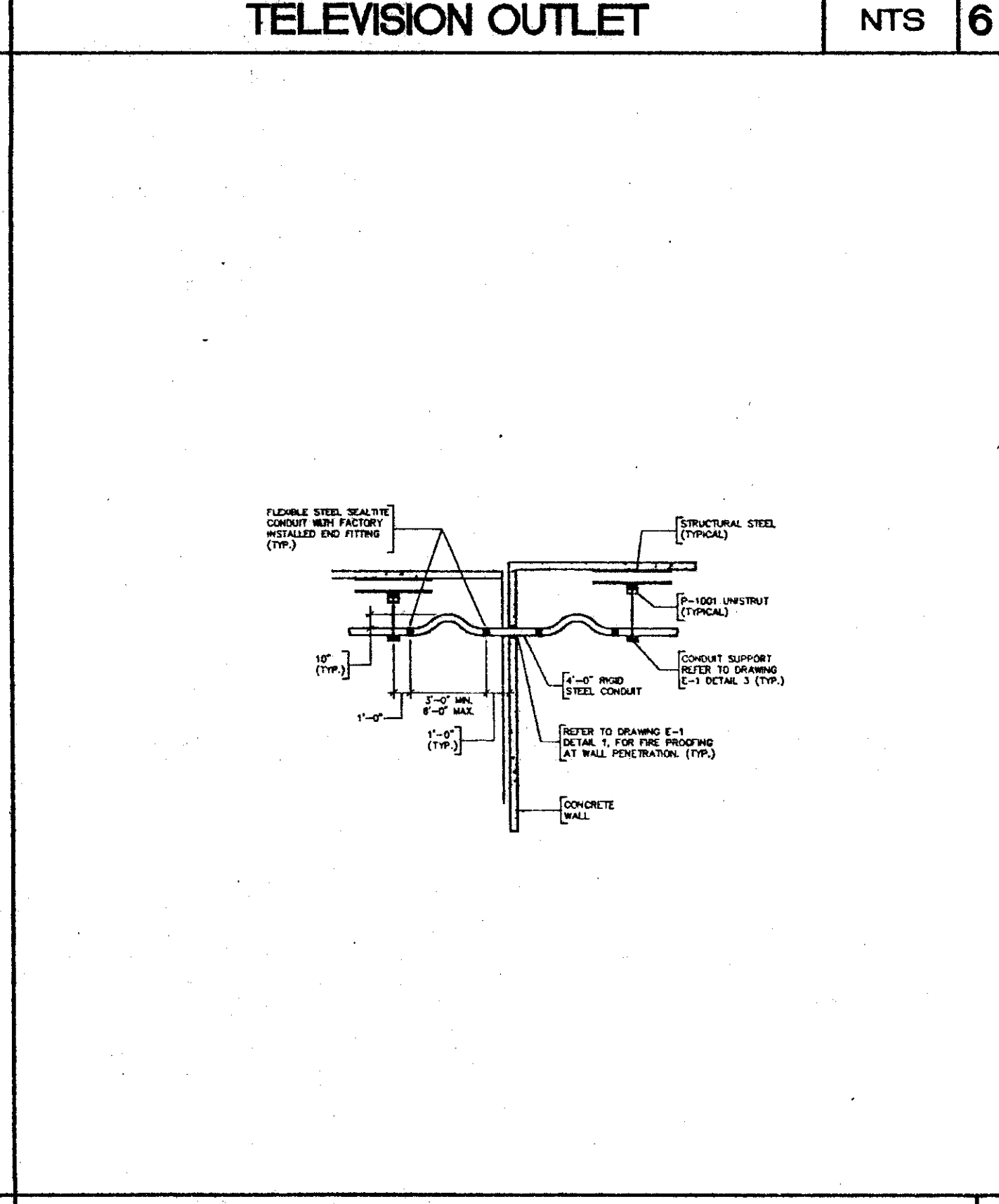
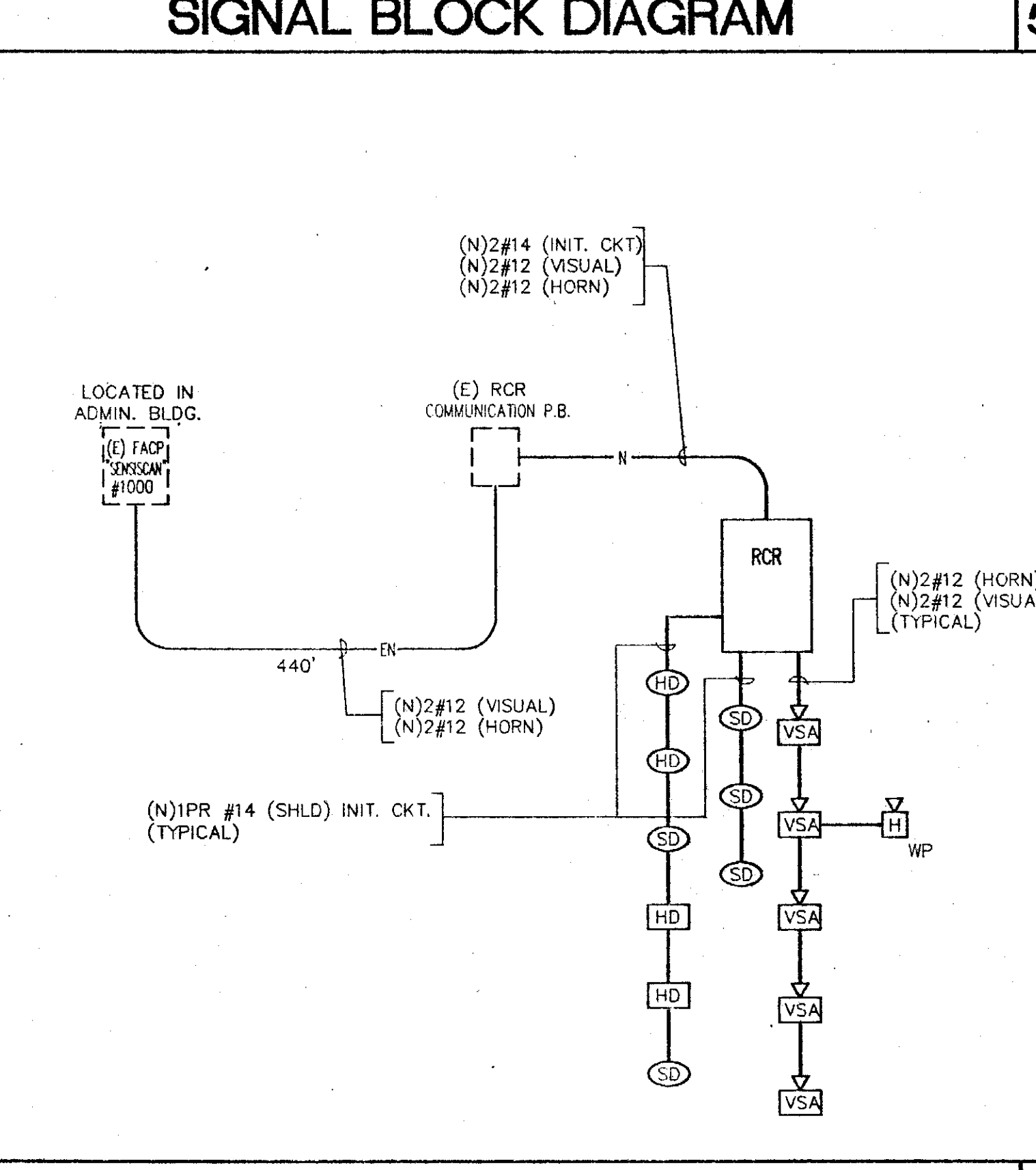
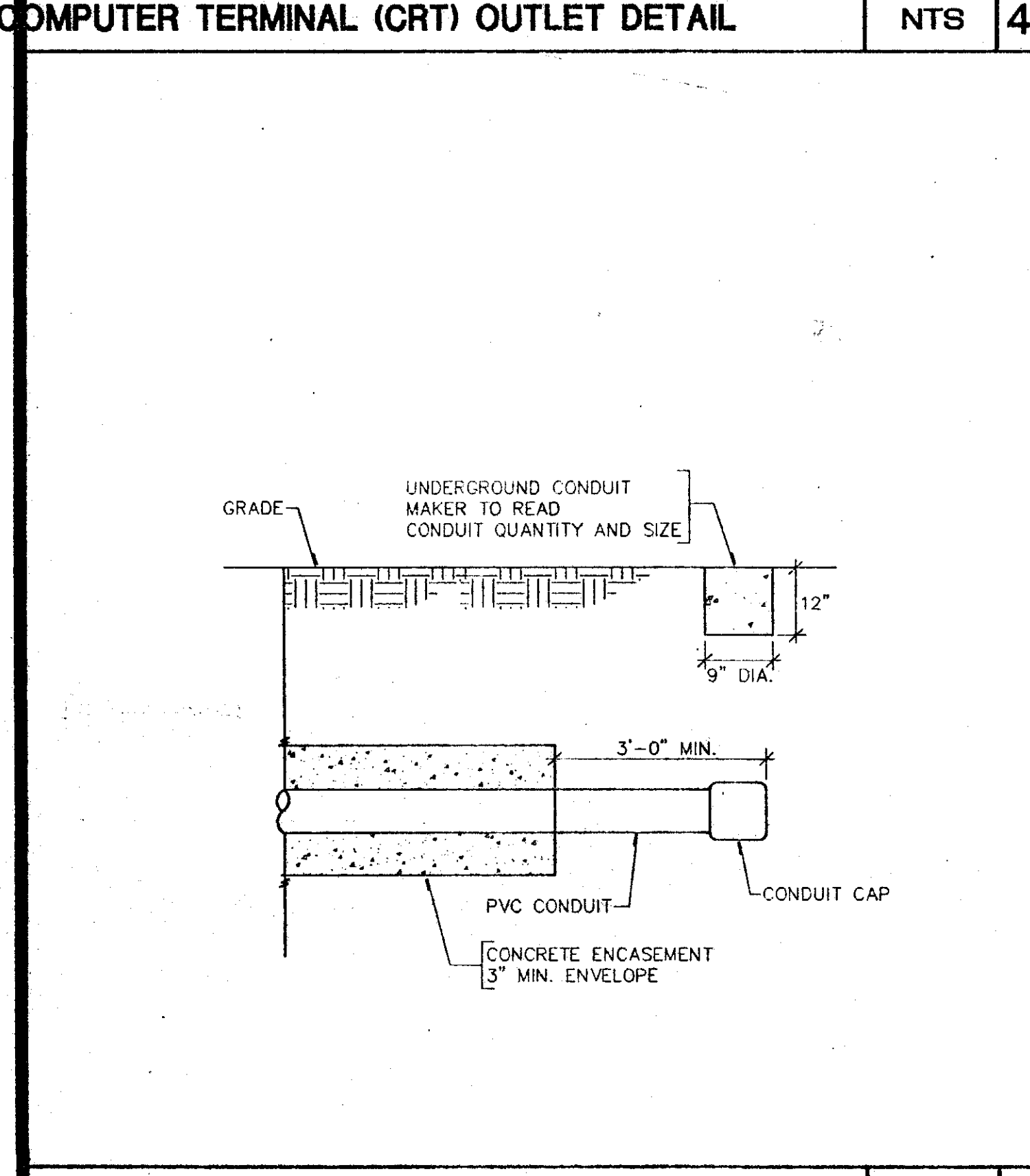


**BATTERY CALCULATIONS**

EXISTING FIRE LITE #1000 CONTROL PANEL  
24 HRS. + 5 MIN. ADMIN. BLDG.

QTY.	STANDBY	ALARM
(E) FACP FIRE LITE #1000	1	.47A
EXTERIOR HORNS	1	.035
HORN/STROBES 1100CD	5	1.175A
	.320A	1.68A
	X24 HRS.	X.083(S MIN.)
	7.68 AH	.139AH

7.68 AH + .139 AH = 7.81 TOTAL AMP HOUR USAGE  
24 AH BATTERIES ARE PROVIDED



**F.A. COMPONENT LISTING(S)**

SYMBOL	DESCRIPTION	C.S.F.M. NO.
FACP	FIRE ALARM CONTROL PANEL (EXISTING)	
SD	SMOKE DETECTOR, CEILING MOUNTED. SPRINT #S-23811 (DS250TH) WITH #S831312 (BACK)	7271-0694-172
HD	HEAT DETECTOR, ATTIC MOUNTED. FCI#ADT-R#115-91120	7270-0694-180
VSA	VISUAL STROBE ANNUNCIATOR. SPRINT #S482347 (FARADAY #5508L)	7135-0694-187
VSA (110cd)	VISUAL STROBE ANNUNCIATOR AND MINI-HORN. GENTEX #GXS-4H AND GX-905-4-110	7135-0694-187 7135-0569-113
H	EXTERIOR HORN. GENTEX #GHI-24	7135-0569-119

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APPROVED: 102932  
DATE: NOV 17 1999

**CONDUIT STUB-OUT AND CAP DETAIL** NTS 7

**FIRE ALARM RISER DIAGRAM** 8

**CONDUIT CROSSING SEISMIC SEPARATION** 9

**APPROVED ARCHITECT**  
CWA & ASSOCIATES, INC.  
Electrical Planning, Engineering, Design + Studies  
9520 Center Avenue, Suite 180  
Pennington, CA 91770  
(909) 948-2723

**REGISTERED PROFESSIONAL ENGINEER**  
No. 10604  
DATE: 10/19/99

**REVISIONS**

NO.	DESCRIPTION	BY

**ADOLPH ZIEMBA, AIA & ASSOCIATES ARCHITECTS**  
111 North First Street, Suite 204, Burbank, CA 91504  
PHONE: (818) 841-2585 FAX: (818) 841-7782

**ROWLAND UNIFIED SCHOOL DISTRICT**  
1018 Otterbein Street, Rowland Heights, Ca. 91748

**SANTANA HIGH SCHOOL**  
1006 Otterbein Ave. Rowland Heights

**DRAWN** LP  
**CHECKED** BT/CAW  
**DATE**  
**SCALE** NONE  
**JOB NO.**  
**FILE NAME** P:1535\1535\_2  
**SHEET** E-3  
**OF 5 SHEETS**

JAN 18 2000

PLOT DATE: 10/19/99



# ELECTRICAL SPECIFICATIONS

## PART 1 GENERAL

### 1.01 SCOPE

A. Work of this section includes everything necessary for or incidental to completing the electrical work, to provide a complete and operable electrical system, except as herein specifically excluded.

### 1.02 GENERAL REQUIREMENTS

A. Electrical System Characteristics: 120/208V, 3PH, 4W

B. Guarantee: Furnish a written guarantee for a period of one-year from date of acceptance.

C. Codes and Regulations: Work done under this Section shall comply with the latest edition of the following: California Electrical Code, State of California Title 24, State Building Standards, Occupational Safety and Health Administration (OSHA) requirements, State of California Title 17 and to all local codes having jurisdiction. In the case where the codes have different levels of requirements, the most stringent rule shall apply.

D. Whenever a discrepancy in quantity or size of conduit, wire, equipment, devices, circuit breakers, etc., (all materials), arises on the Drawing and/or Specifications, the Contractor shall be responsible for providing and installing all material and services required by the strictest condition noted on Drawings and/or in Specifications to insure complete and operable systems as required by the Owner and Engineer.

E. The General and Supplementary Conditions, as well as Special Conditions apply in addition to items in the Electrical Section. Special attention is directed to the following sections:

1. Drawings and Specifications at the site.
2. Shop drawings and samples.
3. Record drawings.
4. Cutting and Patching.
5. Cleaning up.
6. Guarantee.
7. Tests.

F. All single or multiple conductors for signal or communication systems shall have a minimum of (20%) twenty percent spores pulled and tagged.

### 1.03 IDENTIFICATION

- a. Infrasonic services of all new and existing distribution, panelboards and circuits which are a part of this scope of work shall be required.
- b. Infrasonic certified reports shall be submitted on completion to the Owner and Engineer.
- c. Scans shall be performed by an independent testing laboratory with total connected loads in operation.

2. All circuits shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.

3. Grounding System: Shall be tested by an independent testing laboratory to meet resistance specified in Part 3.1, D.3 of these Specifications. It shall be this Contractor's responsibility to make adjustments, as required, to upgrade non-complying systems to proper and safe operation.

4. All certified testing reports shall be submitted to the Owner at completion of project.

5. All test above shall be performed by a independent testing firm.

### 1.04 CORE CUTTING, DRILLING, AND PATCHING:

1. For the installation of work under this Section, the aforementioned shall be performed under this Section of the Specifications and the Concrete section of the Specifications.
2. No holes will be allowed in any structural members without the written approval of D.S.A. or the Structural Engineer.
3. For penetrations of concrete slabs or concrete footings, the work will be as directed in the Concrete Section of Specifications.
4. The contractor shall be responsible for patching and repairing surfaces where he is required to penetrate for work under this contract.
5. Penetrations shall be sealed to meet the rated integrity of the surface required to be patched and repaired. The patched surface shall be painted or finished to match the existing surface.

### 1.05 VERIFYING DRAWINGS AND JOB CONDITIONS:

1. This Contractor shall examine all Drawings and Specifications in a manner to be fully cognizant of all work required under this Section.
2. This Contractor shall visit the site and verify existing conditions. Where existing conditions differ from Drawings, adjustment shall be made and allowances included for all necessary equipment to complete all parts of the Drawings and Specifications.

### 1.06 SHOP DRAWINGS:

1. Drawings shall be submitted in six (6) bound sets accompanied by Letter of Transmittal, which shall give a list of the number and dates of the drawings submitted. Drawings shall be complete in every respect and bound in sets.

2. The Drawings submitted shall be marked with the name of the project, numbered consecutively and bear the approval of the Contractor as evidence that the Drawings have been checked by the Contractor. Any Drawings submitted without this approval will be returned to the Contractor for resubmission.

3. If the shop drawings show variations from the requirements of the Contract because of standard shop practice or other reasons, the Contractor shall make specific mention of such variations in his letter of transmittal. If the substitution is accepted, the Contractor shall be responsible for proper adjustment which may be caused by the substitution. Samples shall be submitted when requested.

4. Shop drawings shall be submitted for all electrical equipment indicated on plan and specified herein.

### 1.03 WORK IN COOPERATION WITH OTHER TRADES

A. Examine the Drawings and Specifications and determine the work to be performed by other trades. Provide the type and amount of electrical materials and equipment necessary to place this work in proper operation, completely wired, tested and ready for use. This shall include all conduit, wire, disconnects, relays, and other devices for the required operation sequence of all electrical and other systems or equipment.

### 1.04 TESTING AND ADJUSTMENT

A. Upon completion of all electrical work, this Contractor shall test all circuits, switches, breakers, and any other electrical items to insure perfect operation of all electrical equipment.

B. Equipment and parts in need of correction and discovered during such testing shall be immediately repaired or replaced with all new equipment and that part of the system shall then be retested. All such replacement or repair shall be done at no additional cost to the Owner.

C. All circuit shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.

D. All certified testing reports shall be submitted to the Engineer at completion of project.

E. Equipment and parts in need of correction and discovered during such testing shall be immediately repaired or replaced with all new equipment and that part of the system shall then be retested. All such replacement or repair shall be done at no additional cost to the Owner.

### 1.05 IDENTIFICATION

A. Identification nameplates shall be Micarta 1/8" thick and of approved size, with bevelled edges and engraved white letters 1/4" high minimum on black background. Nameplates shall be provided for all circuits in the distribution switchboards, and selector switches. Inscriptions on equipment shall be identical to those indicated in panels and/or motor control centers and other similar devices. Each nameplate shall be provided with drillings and suitable mounting screws corresponding to finish of the nameplate. The inscriptions in each nameplate shall be as indicated on the Drawings.

### 1.06 MAINTENANCE, SERVICING, INSTRUCTION MANUALS AND WIRING DIAGRAMS

A. Prior to final acceptance of the job, the Electrical Contractor shall furnish to the Owner at least four (4) copies of operating and maintenance and servicing instructions, as well as four (4) complete wiring diagrams for all electrical equipment shown on plan and specified herein.

B. All wiring diagrams shall specifically cover the system supplied. Typical drawings will not be accepted. Two (2) copies shall be presented to the Electrical Engineer and four (4) copies to the Owner.

### 1.07 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

A. It shall be the Electrical Contractor's responsibility to obtain a complete set of Drawings and Specifications. He shall check the Drawings of the other trades and shall carefully read the entire Specifications and determine his responsibilities.

### 1.08 FINAL INSPECTION AND ACCEPTANCE

A. After all requirements of the Specifications and/or the Drawings have been fully completed, representatives of the Owner will inspect the work. Contractor shall provide competent personnel to demonstrate the operation of any item or system to the full satisfaction of each representative.

B. Final acceptance of the work will be made by the Owner after receipt of approval and recommendation of acceptance from each representative.

### 1.09 RECORD DRAWINGS

A. Contractor shall furnish one set of reproducible record drawings before final payment of retention.

### 1.10 SUBSTITUTIONS

A. Substitution to specified equipment shall be submitted and received by the Engineer fifteen (15) days after the bid date for review and approval. Obtain D.S.A. approval for all substitutions.

B. To receive consideration, requests for substitutions must be accompanied by documentary proof of its equality with the specified material. Documentary proof shall be in letter form and identify the specified values/materials alongside proposed equal values/materials. In addition, catalog brochures and samples, if requested, must be included in the submittal.

C. In the event that authorization is given for a substitute equal to bid, after award of contract the Contractor shall submit to the Engineer certified quotations from suppliers of both the specified and proposed equal material for price comparison and delivery dates.

D. In the event of cost reduction, the Owner will be credited with 100 percent of the reduction, arranged by Change Order.

E. The Contractor warrants that substitutions proposed for specified items will fully perform the functions required.

F. Substitutions or requests for substitution shall not be accepted and rejected for failure to comply with items A-E above.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

A. Materials and Equipment: All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories and bear their label, or listed and certified by a nationally recognized testing authority where UL does not have an approval. Custom made equipment must have complete test data submitted by the manufacturer attesting to its safety. In addition, the materials and equipment shall comply with the requirements of the following:

1. American Society of Testing Materials (ASTM).
2. Insulated Cable Engineers Association (ICEA).
3. National Electrical Manufacturer's Association (NEMA).
4. National Fire Protection Association (NFPA).
5. American National Standard Institute (ANSI).

### B. Panelboards - Branch Circuit:

1. Branch circuit panelboards shall be of the dead front safety type equipped with thermal-magnetic bolt-on type 40 deg C. circuit breakers. All branch circuit panelboards shall be identical in physical size with a 12 circuit, 100A copper bus, unless noted otherwise, and 5-3/4" deep panel.

2. Circuit breakers shall be rated minimum 22,000 AMPS RMS symmetrical interrupting capacity and shall be the number of poles and current capacity as indicated on the panel schedule. Series rated circuit breakers will not be acceptable. Branch circuit panelboards shall be Challenger or approved equal Siemens, Westinghouse or Square D.

3. Trims shall have doors equipped with flush type combination lock and catch, two milled type keys supplied with each panel. All locks shall be keyed alike and each door shall have a plastic covered directory frame with a typed identification card of all circuit and panel numbers for branch circuit panelboards and engraved lamacoid nameplates for power distribution panelboards.

4. Provide nameplate for all panelboards, 1/8" thick, Micarta or Lamacoid plate of approved size, with bevelled edges and engraved white letters on black background. Install nameplates on exterior trim of panel, above the panel door.

5. All wiring shall be neatly arranged and laced together.

6. All circuit breakers shall be provided with a device for locking circuit breaker in "OFF" position.

7. Refer to Painting Section of these Specifications for all panel finish. Panel shall be primed for painting.

8. Neutral and Ground bus bars shall be full size, rectangular in cross section constructed of copper and interconnections.

### C. Conduit:

1. Rigid conduit shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metalizing or sherardizing process.

2. Galvanized Rigid Conduit (GRC), shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metalizing, or sherardizing process.

3. Intermediate Metal Conduit (IMC), shall be hot-dipped galvanized in accordance with UL 1242 and meeting Federal Specification WWC-581 (latest revision).

4. Electrical Metallic Tubing (EMT), shall be zinc-coated steel with baked enamel or plastic finish on inside surfaces.

5. Flexible metal conduit shall be constructed of aluminum or hot-dipped galvanized steel strips wound spirally with interlocking edges to provide greatest flexibility with maximum strength. Interior surfaces shall be smooth and offer minimum drag to pulling in conductors. Used only as directed by the Engineer.

6. Liquid-tight conduit (Robroy-Flex) shall be galvanized steel flexible conduit as above except with moisture and oil-proof jacket, pre-cut lengths and factory installed fittings. For outdoor installations and motor connection.

### 7. Non-Metallic Conduit:

a. Polyvinyl chloride (PVC) rigid conduit, Schedule 40, Type II for underground installation only.

b. Conduit and fitting shall be produced by the same manufacturer.

### D. Fittings:

1. Conduit type fittings shall be smooth inside and out, taper threaded with integral insulating bushing and of the shapes, sizes and types required to facilitate installation or removal of wires and cables from the conduit and tubing system. These fittings shall be of metal, smooth inside and out, thoroughly galvanized, and sherardized cadmium plated.

2. Metallic conduit covers shall have the same finish as the fitting and shall be provided for the opening of each fitting where conductor do not pass through the cover.

3. Connector, coupling, locknut, bushings and caps used with rigid conduit shall be steel, threaded and thoroughly galvanized. Bushings shall be insulated.

4. EMT fittings, connectors and couplings, shall be steel, zinc or cadmium plated, raintight, threadless, compression or top-on multiple point, steel locking ring type with insulated throat. Die cast, set screw or indenter types are not acceptable.

5. Flexible steel conduit connectors shall be of malleable iron clamp or squeeze type or steel twist-in type with insulated throat. The finish shall be zinc or cadmium plating. Connectors that anchor the conduit by set screws shall not be used.

6. Conduit unions shall be "Erickson" couplings, or approved equal. The use of running threads will not be permitted.

### E. 600 Volt Conductors - Wire and Cable:

1. All conductors shall be copper.

2. Type THHN/THWN thermoplastic, 600 volt, UL approved, dry and wet locations, for conductor sizes up to and including #4 AWG.

3. Type XHHW cross-linked synthetic polymer, 600 volt, UL approved, for dry and wet locations, for conductor sizes #2 AWG and above.

4. Cross-linked synthetic polymer, XHHW, 600 volts, UL approved, for installation underground, in concrete or masonry.

5. Wire and cable shall be new, manufactured not more than six (6) months prior to installation, shall have size, type of insulation, voltage rating and manufacturer's name permanently marked on outer covering at regular intervals.

6. Wire and cable shall be factory color coded by integral pigmentation with a separate color for each phase and neutral. Each system shall be color coded and it shall be maintained throughout.

7. All color coding for #8 conductor and above shall be as identified above, utilizing phase tape at each termination.

8. No conductors carrying 120 volt or more shall be smaller than #12 AWG.

### F. Junction and Pullboxes:

1. For interior dry locations, boxes shall be galvanized one-piece drawn steel, knockout type, with removable, machine screw secured covers.

2. For outside, damp or surface locations, boxes shall be heavy cast aluminum or cast iron with removable, gasketed, non-ferrous machine screw secured covers.

3. All boxes shall be sized for the number and sizes of conductors and conduits entering the box and equipped with plaster rings where required. Each conductor shall be terminated at an insulated, barriered terminal connector and completely identified with an engraved fiber identification marker, Electrovert or Underwriter's Safety Device Company.

### G. Outlet Boxes:

1. For convenience outlets, wall switches, or other devices, outlet boxes shall be galvanized one-piece drawn steel, knockout type 4" x 4" x 1-1/2" minimum size with plaster rings as required.

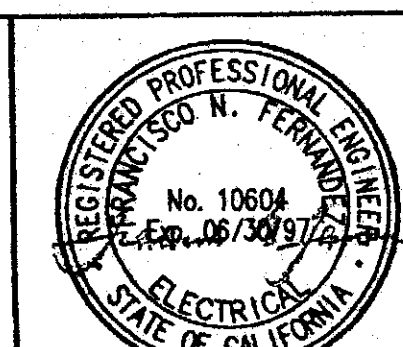
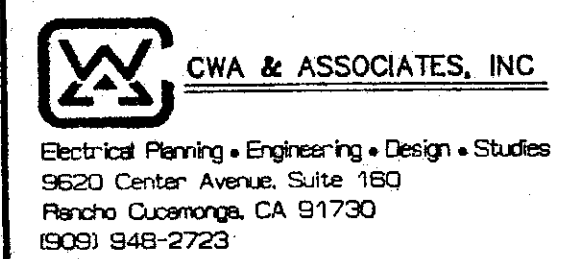
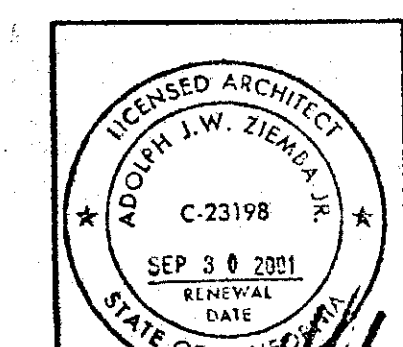
2. For locations where standard boxes are not suitable due to number and size of conduit to be terminated, special boxes shall be designed to fit space or meet other requirements and submitted for approval.

3. For exposure to weather, damp locations, or surface mounting, outlet boxes shall be heavy cast aluminum or cast iron with threaded hubs; covers shall be watertight with gaskets and non-ferrous screws.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APPROVED 102932

DATE NOV 17 1999



JAN 18 2000

REVISIONS	BY

**ADOLPH ZIEMBA, AIA & ASSOCIATES**  
**ARCHITECTS**  
 111 North First Street, Suite 204, Burbank, CA 91504  
 PHONE: (818) 841-2585 FAX: (818) 841-7782

**ROWLAND UNIFIED**  
**SCHOOL DISTRICT**  
 1006 Otterbein Street, Rowland Heights, Ca. 91748

**ELECTRICAL SPECIFICATIONS**  
**SANTANA HIGH SCHOOL**  
 1006 Otterbein Ave. Rowland Heights

DRAWN	LP
CHECKED	FF/CAW
DATE	
SCALE	NONE
JOB NO.	
FILE NAME	P-15381-E-35.2
SHEET	E-4
OF 5 SHEETS	

PLOT DATE: 1/9/99



# ELECTRICAL SPECIFICATIONS

H. Fire Alarm System: Provide a complete and operable C.S.F.M. approved fire alarm system expansion in accordance with the Drawings and these Specifications: (EXISTING FIRE ALARM SYSTEM: FIRE LITE 1000, CONTACT: SPRINT/NORTHSUPPLY CO. (800)776-3970).

1. General:

- a. All system components furnished and installed under this contract shall be identical in manufacturer and function to existing system.
- b. The fire alarm system shall comply with the National Electrical Code, NFPA 72A, Life Safety Code 101 and comply with the requirements as set forth by the State Fire Marshal's office, Title 24 of the California Administrative Code.
- c. All components shall be C.S.F.M. listed and approved. C.S.F.M. listing numbers shall be shown on all submittal data.
- d. The system shall conform to Titles 19 and 24 as applicable to this project.
- e. Upon completion of system installation, the system shall be tested in the presence of and in a manner acceptable to the enforcing agency.
- f. The certified fire alarm installer shall submit the "Fire Alarm System Certification and Description" (NFPA-72H) form after completion of installation to D.S.A. for compliance.

I. Telephone System: Provide a complete and operable expansion of the existing telephone system in accordance with the Drawings and these Specifications: (EXISTING TELEPHONE SYSTEM: FOCUS #20, TO MATCH EXISTING).

1. General:

- a. All system components furnished and installed under this contract shall be identical in manufacturer and function to existing system.

J. Security System: Provide a complete and operable expansion to the existing Security System in accordance with the drawings and these specifications.

1. All systems components furnished & installed under this contract shall be identical in manufacturer and function to existing building.

K. Painting:

1. Terminal cabinets, panels, junction boxes, pull boxes, etc., and conduit installed outdoors and in public view shall be painted with colors selected by the Architect to match the subject exterior surface. Refer to painting section of the specifications for additional requirements.

L. Seismic Design and Anchoring of Electrical Equipment:

1. All electrical prefabricated equipment is to be designed and constructed in such a manner that all portions, elements, sub-assemblies and/or parts of said equipment and the equipment as a whole, including their attachments, will resist a horizontal load equal to the operating weights of those parts multiplied times the following factors:

Fixed Equipment on Grade - 23% of Operating Weight

Fixed Equipment on Structure - 35% of Operating Weight

For flexibly mounted equipment use 4 x the above values. Simultaneous vertical force - use 1/3: x horizontal force. Where anchorage details are not shown on Drawings, the installations shall be subject to the approval of the Electrical Engineer and the DSA field engineer. (For equipment installed on roof or floor and weighing 1,000 pounds or less.)

Type of Equipment	Horizontal CP	Vertical CP
Rigid and rigidly supported piping or equipment such as boilers, transformer, unit substations and control panels	0.50	0.33

Flexible and flexibly supported equipment such as air-handling units, piping, and other equipment so supported that the fundamental period of vibration of the equipment and its supporting system.

	1.00	0.67
--	------	------

- (a) Load is to be applied at the center of gravity of the part and to be in any direction horizontally. Design stresses shall be in accordance with the Specifications for design of the American Institute of Steel Construction. Anchorage, support and/or attachment of said prefabricated equipment to the structure shall be in accordance with the details found in the plans and Specifications.

- (b) All electrical equipment furnished under this Section of the Specifications shall be permanently anchored to the floor or pads and shall withstand a lateral force equivalent to two times gravity minimum.

- (c) The manufacturer and/or supplier of said equipment shall certify in writing to the Architect and the Office of Architecture and Construction of the State of California that this equipment complies with these Specifications.

## PART 3 - EXECUTION

### 3.01 PREPARATION AND INSTALLATION

#### A. Installation of Conduit and Outlet Boxes:

1. All conduit exposed or installed in concrete and masonry, shall be galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).
2. Rigid conduit may be installed under floor slabs, under concrete sidewalks as noted on the Drawings. Rigid conduit installed under slabs shall be 1" trade size minimum and shall be wrapped with 20 mil. polyvinyl chloride plastic tape.
3. All conduit except as hereinafter specified, installed in concrete or masonry, or damp or hazardous location or subject to mechanical injury shall be heavy wall, threaded, galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).
4. Flexible steel conduit shall only be permitted to be used at light fixture outlets and connections to vibrating electrical equipment. All flexible steel conduit runs shall be less than 6'-0". All outdoor installation shall be made using liquid-tight flex with approved fittings. Use of flexible conduit shall be as approved by the Engineer.
5. Intermediate metal conduit (IMC), is approved for use in all locations as approved for GRC or EMT and in accordance with Article 345 of CEC and UL Information card #07BY.
6. All conduit installed in the dry walls or ceilings of the building shall be steel tube (EMT), Galvanized Rigid Steel (GRC), or Intermediate Metal Conduit (IMC).
7. Conduit shall be run so as not to interfere with other piping fixtures or equipment.
8. The ends of all conduit shall be cut square, carefully reamed out to full size and shall be shouldered in fitting.
9. No running threads will be permitted in locations exposed to the weather, in concrete or underground. Special union fittings shall be used in these locations.
10. Underground conduit shall be, unless otherwise indicated, Schedule 40 PVC (polyvinyl chloride) complete with a minimum three (3") inch, (2,000 lb) concrete envelope, (2") inch minimum separation between conduits, installed at depth of not less than 24" below grade. Conduit separation shall be maintained using plastic spacers located at 10'-0" intervals. Where power and communication/signal conduits are run in a common trench a (12") inch minimum separation shall be maintained between power and communication/signal conduits. Where underground conduit passes under a building slab, concrete encasement may not be required, contact the Engineer for direction. The grounding wire in plastic conduit shall be rated in accordance with Section 250-95 of 1981 CEC.
11. All underground or imbedded conduit shall be 1" minimum trade size for steel and for PVC.
12. Where underground conduit runs stub-up, conduit shall transition to GRC underground. The contractor shall use GRC elbows and GRC risers wrapped in 20 mil. PVC tape for stub-ups. No PVC shall be run in walls.
13. Where underground conduit runs penetrate floor slab, conduit shall terminate flush with the floor slab using a flush coupling.
14. Where conductors enter a raceway in a cabinet, pull box, junction box, or auxiliary gutter, the conductors shall be protected by a plastic bushing type fitting providing a smoothly rounded insulating surface.
15. Where conduit extends through roof to equipment on roof area, this Contractor shall provide 24 gauge galvanized sheet metal flashing cones with 4" flanges on roof surface. This flashing shall be delivered to the roofing contractor for installation. The actual location of all such roof penetrations and outlet shall be verified by the Contractor.
16. All conduit underground, in masonry and concrete and where concealed under floor slabs shall have joints painted with thread compound prior to makeup.
17. All conduit shall be supported at intervals not less than 6'-0" and within 12" from any outlet and at each side of bends and elbows. Conduit supports shall be galvanized, heavy stamped, two hole conduit clamp properly secured, nail-in conduit supports will not be allowed. Where conduit racks are used the rack shall consist of two piece slotted conduit clamps attached to galvanized steel slotted channels, properly secured via threaded rods attached directly to the building structure. One piece set-screw type conduit clamps or perforated iron for supporting conduit will not be permitted.
18. Seismic Conduit Support:
  - a. All conduit shall be supported in such a manner that it is securely attached to the structure of the building. Attachment is to be capable of supporting the tributary weight of conduit and contents in any direction. Maximum spacing of support and braces are to be as follows:

CONDUIT SIZE	MAXIMUM SPACING
1/2" to 3" Standard	incl. 6'-0"
3-1/2" to 4" Standard	incl. 8'-0"

19. All conduit runs shall be installed parallel or perpendicular to walls, structural members, or intersection of vertical planes and ceilings. Field made bends and offset shall be avoided where possible. Crushed or deformed raceway shall not be installed.

20. Open knockouts in outlet boxes only where required for inserting conduit.
21. Outlet boxes on metal studs shall be attached to metal hangers, tack welded or bolted to studs; on wood studs attachment shall be with wood screws, nails not acceptable.

22. All exposed conduits shall be painted to match the finish of the wall or ceiling to which it is supported to.

23. Sleeves shall be installed where conduit passes through masonry or concrete walls and shall be 24 gauge galvanized steel no more than 1/2" greater in diameter than the outside diameter of the conduit. Caulk conduit sleeve with stone wool and waterproof below grade. Must meet fire rating approval.

24. All boxes shall be covered with outlet box protector, Appleton SB-CK. Keep dirt from entering box or panels. If dirt does get in, it shall be removed prior to pulling wires.

25. All boxes installed outdoors shall be suitable for outdoor installations, gasketed, screw cover and painted as directed by the Architect with weatherproof paint to match building.

26. All conduit entries to outdoor mounted panels, cabinets, boxes, etc., shall be made using Myers "SCRU-TITE" hubs Series ST.

27. All conduit shall have a 200 lb test poly-propylene pull line left in place for future use in all runs tagged with a plastic tag at terminating end indicating the location of the opposite end of the conduit.

28. All rotating electrical equipment shall be supplied with flexible, liquid-tight conduit with appropriate slack and shall not exceed thirty-six (36) inches.

29. All conduit runs within suspended ceilings shall be suspended from building structure by means of unistrut hangers/rack, see note 17. Conduit shall not be allowed to lay on ceiling or be supported from ceiling or other suspension system.

#### B. Installation of 600 Volt Conductors:

1. All electrical wire, including signal circuits, shall be installed in conduit.

2. All circuits and feeder wires for all systems shall be continuous from switch to terminal or farthest outlet. No joints shall be made except in pull, junction or outlet boxes, or in panel or switchboard gutters.

3. Thoroughly clean all conduit and wire-ways and see that all parts are perfectly dry before pulling any wires. No joint shall be made except in pull, junction or outlet boxes, or in panel or switchboard gutters.

#### C. Joints in 600 Volt Conductors:

1. Joints in 600 volt conductors smaller than No. 4 AWG shall be made with Scotchlok spring type connectors. Wires No. 4 AWG and larger shall be joined together with approved type of pressure connector and topped with #33 3M tape, three (3) layers minimum to provide insulation not less than that of conductor. Connections to switch or busbar shall be made with one-piece copper lugs. Splicing of all 600 volt or less in-line connections #2 AWG through 350 MCM shall be made with 3M brand PST connector.

#### D. Grounding:

1. Provide grounding for entire electric installation as shown on plans and as required by applicable codes. Included as required grounding are:
  - a. Conduit.
  - b. Neutral or identified conductors of interior wiring system.
  - c. Panelboards and Switchboards.
  - d. Non-current carrying metal parts of fixed equipment.
  - e. Relocatable classroom structure. Install two ground rods minimum per classroom.

2. Furnish and install required number of 3/4" x 10' ground rods to meet specified resistance, all required grounding wires, conduit and clamps. The size of the grounding conductors shall be not less than that set forth in the latest edition of the California Code of Regulations, Title 24, State of California and CEC, unless otherwise indicated.
3. Building grounding system resistance to ground shall not exceed 25 ohm.

#### E. Prefabricated Equipment: Installation of all prefabricated items and equipment shall conform to the requirements of the manufacturer's specifications and installation instruction pamphlets. Where code requirements affect installation of materials and equipment, the more stringent requirements, code or manufacturer's instructions and/or specifications, shall govern the work.

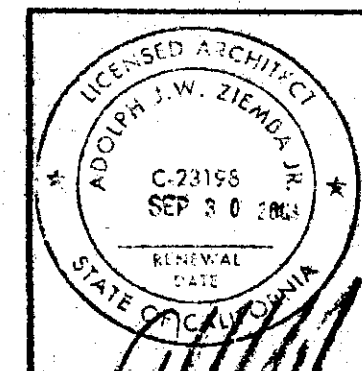
#### F. TV Signal Distribution System: Provide a complete and operable expansion to the existing TV Signal Distribution System in accordance with the drawings and these specifications.

1. All systems components furnished & installed under this contract shall be identical in manufacturer and function to existing building.
2. Repair any existing site runs and add conductors necessary to add new stations and return existing rooms to operation.

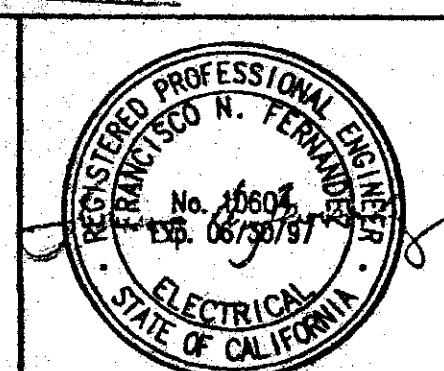
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APPROVED: 02932

DATE: NOV 17 1999



**CWA & ASSOCIATES, INC.**  
Electrical Planning • Engineering • Design • Studies  
9820 Center Avenue, Suite 180  
Rancho Cucamonga, CA 91730  
(909) 848-2723



REVISIONS	BY

**ADOLPH ZIEMBA, AIA & ASSOCIATES**  
**ARCHITECTS**  
111 North First Street, Suite 204, Burbank, CA, 91504  
PHONE: (818) 841-2565 FAX: (818) 841-7782

**ROWLAND UNIFIED**  
**SCHOOL DISTRICT**  
1018 Otterbein Street, Rowland Heights, Ca. 91748

**ELECTRICAL SPECIFICATIONS**  
**SANTANA HIGH SCHOOL**  
1006 Otterbein Ave., Rowland Heights

DRAWN: L.P.  
CHECKED: FT/CAW  
DATE: \_\_\_\_\_  
SCALE: NONE  
JOB NO.: \_\_\_\_\_  
FILE NAME: P:1535\_1535.2  
SHEET: **E-5**  
OF 5 SHEETS

JAN 18 2000

PLOT DATE: 10/19/99







**TESTING AND INSPECTION REQUIREMENTS FOR SCHOOL AND HOSPITAL CONSTRUCTION**

**TESTS :**

THE OWNER WILL SELECT AN INDEPENDENT TESTING LABORATORY TO CONDUCT THE TESTS. SELECTION OF THE MATERIAL REQUIRED TO BE TESTED SHALL BE BY THE LABORATORY OR THE OWNER'S REPRESENTATIVE AND NOT BY THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A SUFFICIENT TIME IN ADVANCE OF THE MANUFACTURE OF MATERIAL TO BE SUPPLIED BY HIM UNDER THE CONTRACT DOCUMENTS, WHICH MUST BE TESTED, IN ORDER THAT THE OWNER MAY ARRANGE FOR THE TESTING OF SAME AT THE SOURCE OF SUPPLY.

ANY MATERIAL SHIPPED BY THE CONTRACTOR FROM THE SOURCE OF SUPPLY PRIOR TO HAVING SATISFACTORILY PASSED SUCH TESTING AND INSPECTION OR PRIOR TO THE RECEIPT OF NOTICE FROM SAID REPRESENTATIVE THAT SUCH TESTING AND INSPECTION WILL NOT BE REQUIRED SHALL NOT BE INCORPORATED IN THE JOB.

THE OWNER WILL SELECT AND PAY TESTING LABORATORY COSTS FOR ALL TESTS AND INSPECTION, BUT MAY BE REIMBURSED BY THE CONTRACTOR FOR SUCH COSTS UNDER THE CONTRACT DOCUMENTS.

**TESTS REPORTS :**

ONE COPY OF ALL TEST REPORTS SHALL BE FORWARDED TO THE DIVISION OF THE STATE ARCHITECT BY THE TESTING AGENCY. SUCH REPORTS SHALL INCLUDE ALL TESTS MADE, REGARDLESS OF WHETHER SUCH TESTS INDICATE THAT THE MATERIAL IS SATISFACTORY OR UNSATISFACTORY. SAMPLES TAKEN BUT NOT TESTED SHALL ALSO BE REPORTED. RECORDS OF SPECIAL SAMPLING OPERATIONS AS REQUIRED SHALL ALSO BE REPORTED. THE REPORTS SHALL SHOW THAT THE MATERIAL OR MATERIALS WERE SAMPLED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 AND WITH THE APPROVED SPECIFICATIONS. TEST REPORTS SHALL SHOW THE SPECIFIED DESIGN STRENGTH, THEY SHALL ALSO STATE DEFINITELY WHETHER OR NOT THE MATERIAL OR MATERIALS TESTED COMPLY WITH REQUIREMENTS.

**VERIFICATION OF TEST REPORTS :**

EACH TESTING AGENCY SHALL SUBMIT TO THE DIVISION OF THE STATE ARCHITECT A VERIFIED REPORT IN DUPLICATE COVERING ALL THE TESTS WHICH ARE REQUIRED TO BE MADE BY THAT AGENCY DURING THE PROGRESS OF THE PROJECT. SUCH REPORT SHALL BE FURNISHED EACH TIME THAT WORK ON THE PROJECT IS SUSPENDED, COVERING THE TESTS UP TO THAT TIME, AND AT THE COMPLETION OF THE PROJECT, COVERING ALL TESTS.

**INSPECTION BY THE OWNER :**

THE OWNER AND HIS REPRESENTATIVES SHALL AT ALL TIMES HAVE ACCESS FOR THE PURPOSE OF INSPECTION TO ALL PARTS OF THE WORK AND TO THE SHOPS WHEREIN THE WORK IS IN PREPARATION AND THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN PROPER FACILITIES AND PROVIDE SAFE ACCESS FOR SUCH INSPECTION.

THE OWNER SHALL HAVE THE RIGHT TO REJECT MATERIALS AND WORKMANSHIP WHICH ARE DEFECTIVE OR TO REQUIRE THEIR CORRECTION. REJECTED WORKMANSHIP SHALL BE SATISFACTORILY CORRECTED AND THE REJECTED MATERIALS SHALL BE REMOVED FROM THE PREMISES WITHOUT CHARGE TO THE OWNER. IF THE CONTRACTOR DOES NOT CORRECT SUCH REJECTED WORK WITHIN A REASONABLE TIME, FIXED BY WRITTEN NOTICE, THE OWNER MAY CORRECT SAME AND CHARGE THE EXPENSE TO THE CONTRACTOR.

SHOULD IT BE CONSIDERED NECESSARY OR ADVISABLE BY THE OWNER AT ANY TIME BEFORE FINAL ACCEPTANCE OF THE ENTIRE WORK TO MAKE AN EXAMINATION OF THE WORK ALREADY COMPLETED BY REMOVING OR TEARING OUT THE SAME, THE CONTRACTOR SHALL ON REQUEST PROMPTLY FURNISH ALL NECESSARY FACILITIES, LABOR & MATERIALS. IF SUCH WORK IS FOUND TO BE DEFECTIVE IN ANY RESPECT DUE TO THE FAULT OF THE CONTRACTOR OR HIS SUBCONTRACTOR, HE SHALL DEFRAY ALL EXPENSES OF SUCH EXAMINATIONS AND OF SATISFACTORY RECONSTRUCTION. IF, HOWEVER, SUCH WORK IS FOUND TO MEET THE REQUIREMENTS OF THE CONTRACT, THE ADDITIONAL COST OF LABOR AND MATERIAL NECESSARILY INVOLVED IN THE EXAMINATION AND REPLACEMENT SHALL BE ALLOWED THE CONTRACTOR.

**INSPECTOR - OWNER'S :**

AN INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA CODE OF REGULATION, TITLE 24 PART 1, WILL BE ASSIGNED TO THE WORK. HIS DUTIES ARE SPECIFICALLY DEFINED IN TITLE 24 PART 1.

THE WORK OF CONSTRUCTION IN ALL STAGES OF PROGRESS SHALL BE SUBJECT TO THE PERSONAL CONTINUOUS OBSERVATION OF THE INSPECTOR. HE SHALL HAVE FREE ACCESS TO ANY OR ALL PARTS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL FURNISH THE INSPECTOR REASONABLE FACILITIES FOR OBTAINING SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED RESPECTING THE PROGRESS AND MANNER OF THE WORK AND THE CHARACTER OF THE MATERIALS. INSPECTION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO FULFILL THIS CONTRACT.

**INSPECTOR - OWNER - FIELD OFFICE**

THE CONTRACTOR SHALL PROVIDE FOR THE USE OF THE OWNER'S INSPECTOR A TEMPORARY OFFICE TO BE LOCATED AS DIRECTED BY THE INSPECTOR AND TO BE MAINTAINED UNTIL REMOVAL IS AUTHORIZED BY THE OWNER. THIS OFFICE SHALL BE OFF-SHEDDENTIAL WATER-PROOF CONSTRUCTION WITH ADEQUATE NATURAL LIGHT AND VENTILATION BY MEANS OF STOCK DESIGN WINDOWS. THE FLOOR SHALL HAVE A LOCK, A TABLE SATISFACTORY FOR THE STUDY OF PLANS AND TWO CHAIRS. THE OFFICE SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ADEQUATE ELECTRIC LIGHTS, PROVIDE LOCAL TELEPHONE SERVICE WITH LOCAL EXTERIOR BELL, AND ADEQUATE HEAT FOR THIS FIELD OFFICE UNTIL THE COMPLETION OF THE CONTRACT.

TESTING LABORATORY: \_\_\_\_\_ DATE: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

DISTRICT: \_\_\_\_\_

DIVISION - FILE NO. \_\_\_\_\_ APPLICATION NO. \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

STRUCTURAL ENGINEER: \_\_\_\_\_

STATE OF CALIFORNIA  
DEPT. OF GENERAL SERVICES  
OFFICE OF THE  
STATE ARCHITECT

**STRUCTURAL  
TESTS  
AND  
INSPECTIONS**

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

COMPACTED FILL	CONC. GUNITE	GROUT	MORTAR
Fill material, acceptance tests			
Compaction control, continuous			
Compaction tests only as ordered			
Bearing capacity of compacted fill			
REINFORCING STEEL			
Sample and test bar steel			
Sample and test mesh			
Inspect welding at job			
STRUCTURAL STEEL			
Shop fabrication inspection			
Field erection inspection			
Inspection of welds - Shop			
Inspection of welds - Field			
Inspection of riveting or bolting - Shop			
Inspection of riveting or bolting - Field			
Sample and test high strength bolts and washers			
BRICK AND BLOCK			
Sample and test			
Test only			
Inspection of placing			
Core drill samples			
GLUED LAMINATED STRUCTURAL LUMBER			
Fabrication inspection			
Sample and test steel accessories			
Inspect fabrication of steel accessories			

SUITABILITY TESTS

CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sodium sulphate			
Structural strength			
Low Angeles raster			
Clay (hydrometer method)			
Reactivity tests			
Volume change			

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM

List of structural steel members to be tested:

Other Tests and Inspections, together with special instructions: \_\_\_\_\_

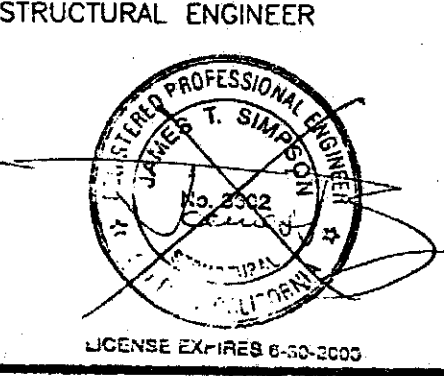
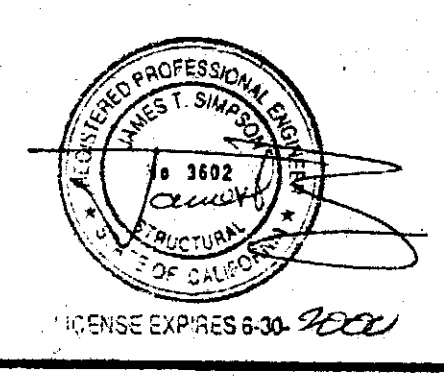
Copies of Reports to: \_\_\_\_\_

(Are these instructions continued on reverse: Yes No )

BY: \_\_\_\_\_ AUTHORIZED REPRESENTATIVE

Form 411-11.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party, without the written authorization of PROFILE STRUCTURES, INC.



STRUCTURAL ENGINEER ARCHITECT

**PS PROFILE STRUCTURES, INC.**  
CONTRACTOR'S LICENSE # 240071 81

(310) 921-2551  
FAX (310) 921-2263

13928 CARHAINITA RD.  
SANTA FE SPRINGS CA 90670

**30'40'30'60'x32' - CLASSROOM BUILDINGS**  
RIGID FRAME - BUILT UP ROOF - WOOD/METAL STUDS

SCALE: NOTED DATE: 07/22/96 APPROVED BY: \_\_\_\_\_

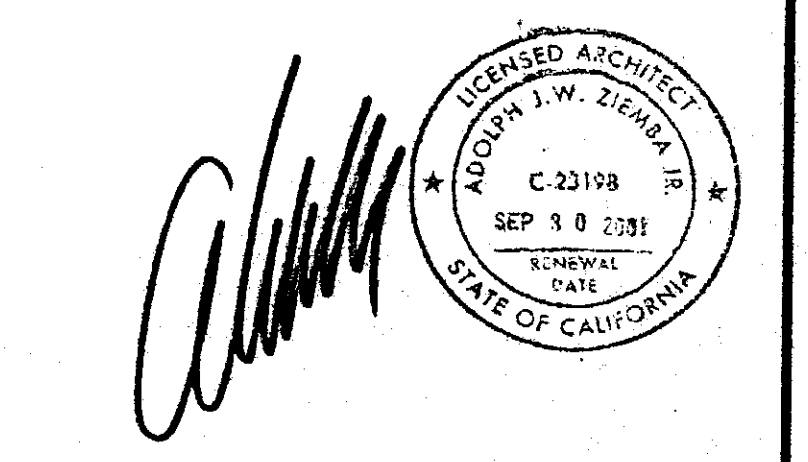
DRAWN BY: FS/NCJ/M  
REVISED: 11/01/99  
JOB NO. 149-66  
PC-245

STRUCTURAL TESTS & INSPECTION T-2

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES

APPL. # PC-295

AC: FS 24 SS 4  
DATE: NOV 17 1999



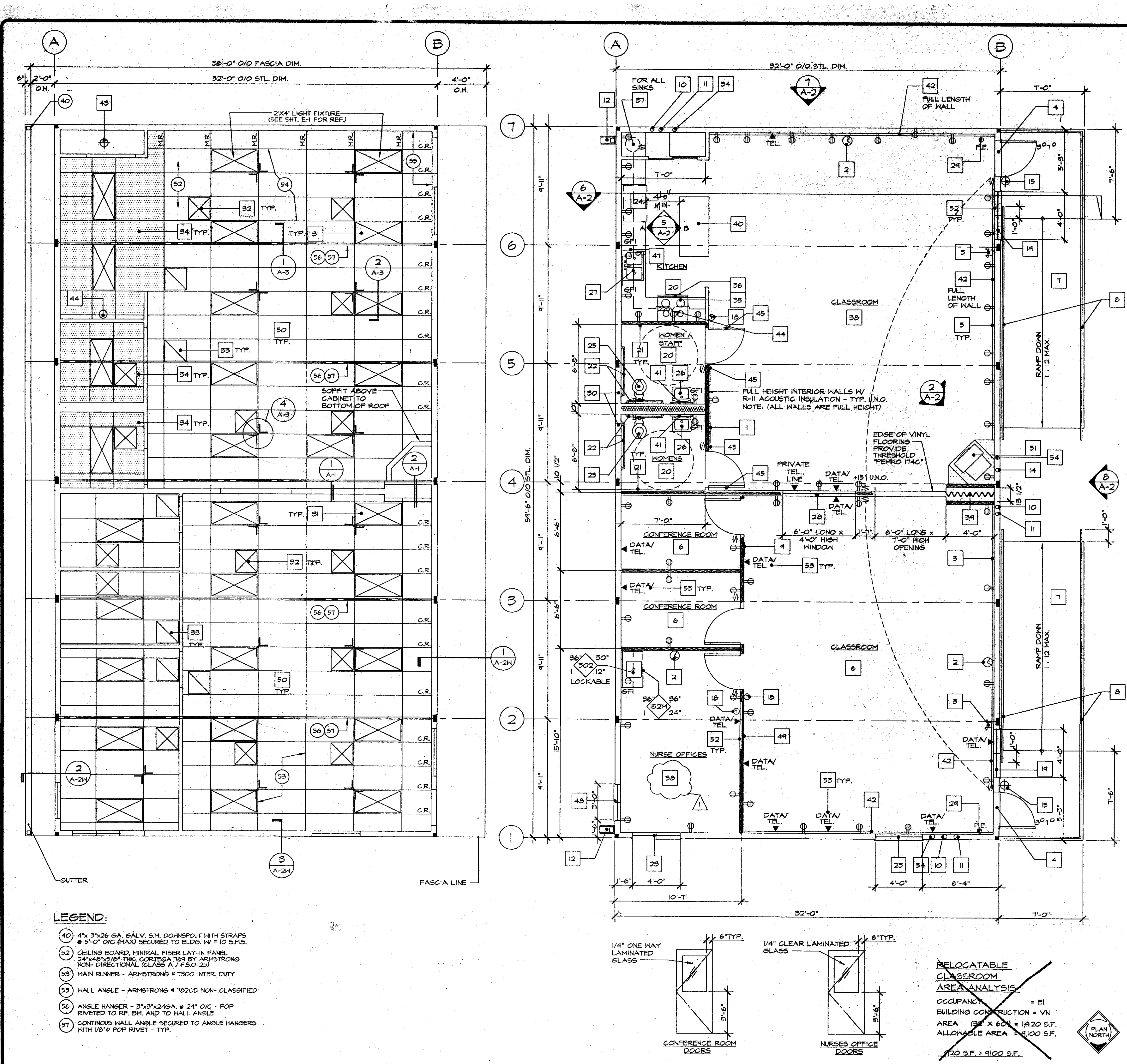
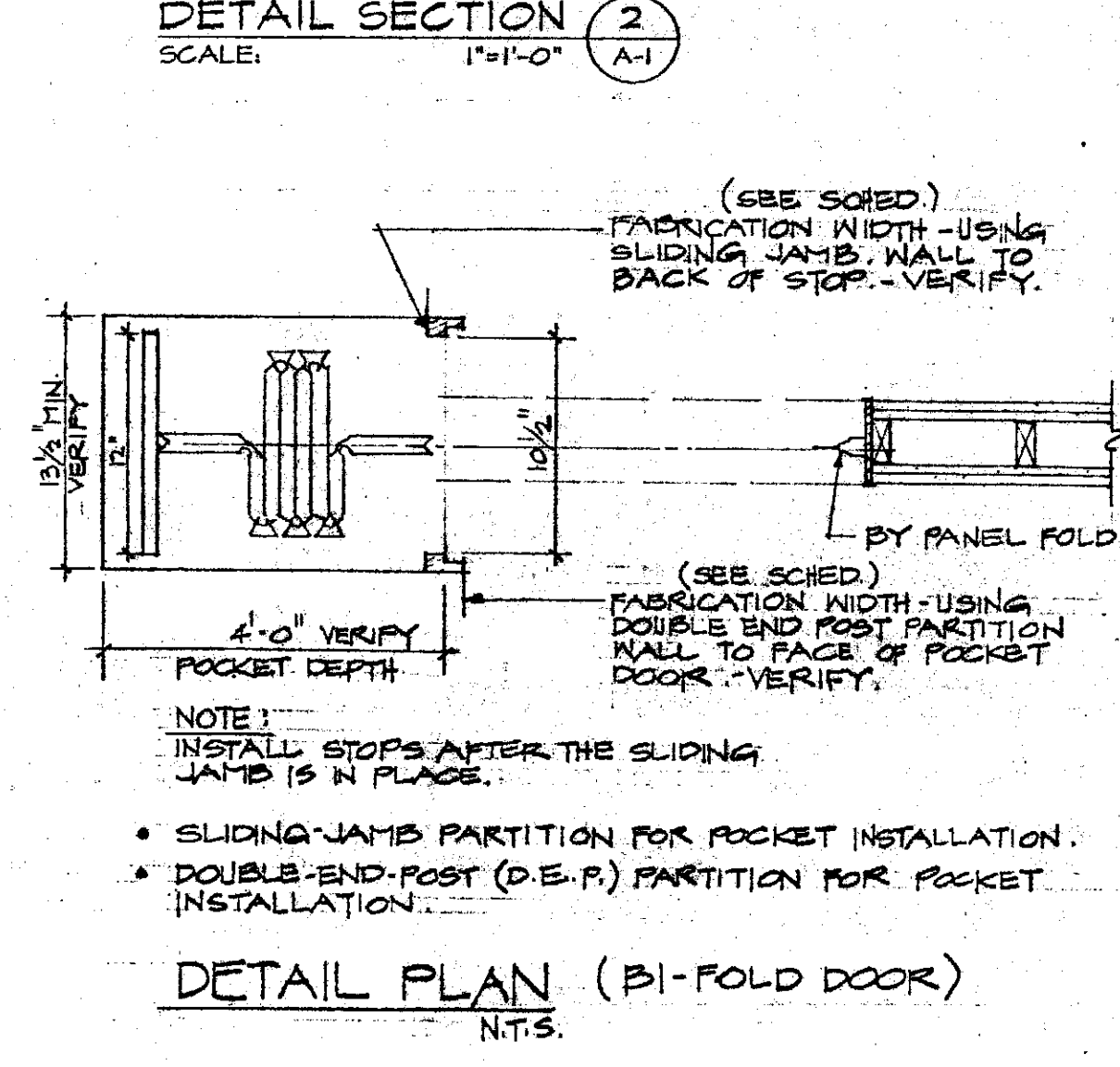
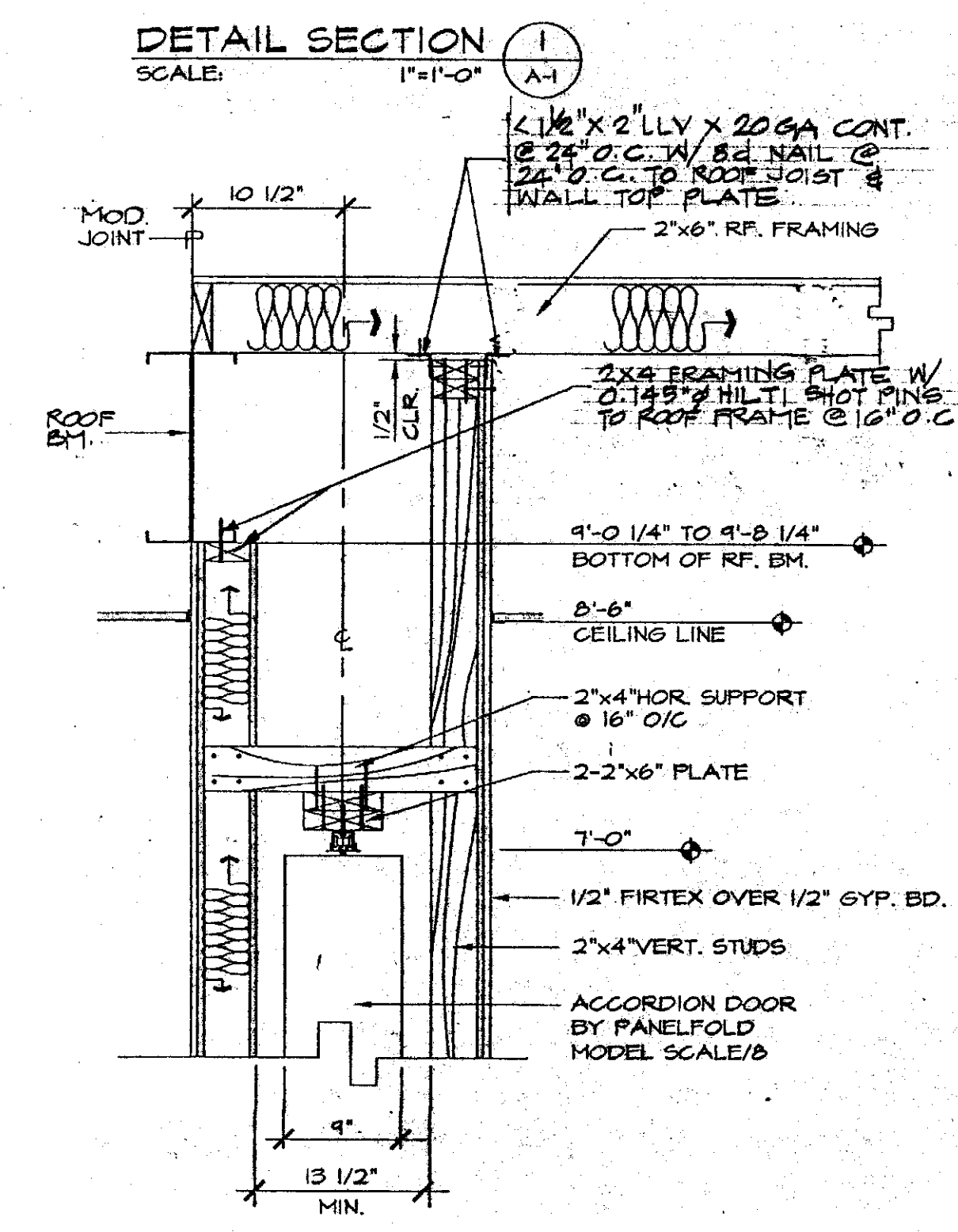
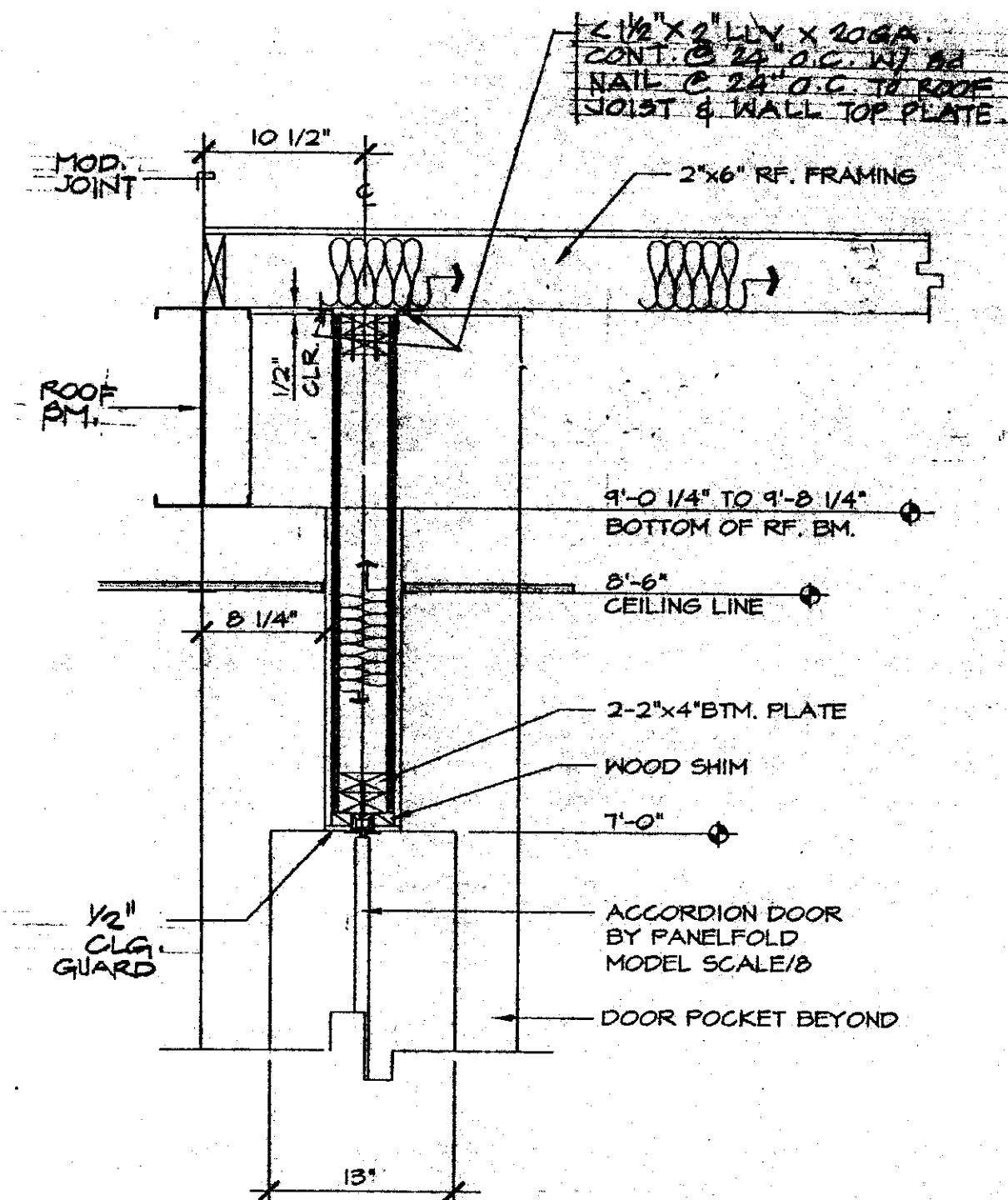
**NOT FOR CONSTRUCTION**

**JAN 18 2000**

REV. # DATE DESCRIPTION BY:

**AZ 990363**





- LEGEND:**
- 40 4" x 3'-06 GA. GALV. S.H. DOWNSPOUT WITH STRAPS @ 5'-0" O/C (MAX) SECURED TO BLDG. W/ #10 S.M.S.
  - 52 CEILING BOARD, MINERAL FIBER LAY-IN PANEL 24"x48"x5/8" THK. CORTEGA 104 BY ARMSTRONGS NON-DIRECTIONAL GLASS A (F.S.G.-23)
  - 53 MAIN RUNNER - ARMSTRONGS # 1300 INTER. DUTY
  - 55 HALL ANGLE - ARMSTRONGS # 78200 NON-CLASSIFIED
  - 56 ANGLE HANGER - 3"x3"x24GA. @ 24" O/C - POP RIVETED TO RF. BM. AND TO HALL ANGLE.
  - 57 CONTINUOUS HALL ANGLE SECURED TO ANGLE HANGERS WITH 1/2" POP RIVET - TYP.

REFLECTED CEILING PLAN SCALE: 1/4" = 1' - 0"

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

- KEYNOTES**
- 52 SUPPLY DIFFUSER
  - 53 RETURN AIR GRILLE
  - 54 WASHABLE TILE AT KITCHEN & TOILETS (VINYL COVERED)
  - 55 ELECTRIC RANGE - SEE SPECS. WIDTH-30" DEPTH-21" HEIGHT-5-1/16"
  - 56 ELECTRIC OVEN - SEE SPECS. WIDTH-24 3/4" DEPTH-25 5/8" HEIGHT-26 15/16"
  - 57 ELECTRIC WATER HEATER
  - 58 SHEET VINYL FLOORING WITH 4" TOPSET BASE
  - 59 ACCORDION DOOR
  - 60 KITCHEN DEMONSTRATION COUNTER AND CABINET
  - 61 MIRROR
  - 62 COMPUTER DATA, ELECTRICAL & TELEPHONE RACEWAY (MULTI-CHANNEL SURFACE NON-METALLIC RACEWAY (B) COMPARTMENTS, WIREMOLD SERIES 8500 WITH CONVENIENCE OUTLETS & COMPUTER JACKS (COLOR AS SELECTED). WIRE COMPLETE FOR CONVENIENCE OUTLETS ONLY. MOUNT 15" ABOVE FINISH FLOOR. PROVIDE 2" BLANK CONDUIT ONLY IN HALL. CONNECT TO RACEWAYS (STUB ABOVE CEILING) FOR FUTURE DATA. PROVIDE 1" CONDUIT IN HALL CONNECT TO RACEWAY (STUB ABOVE CEILING FOR FUTURE TEL. WIRING).
  - 63 15 WATT FLUORESCENT LIGHT FIXTURE
  - 64 RANGE EXHAUST FAN THRU ROOF
  - 65 DISABLED PERSONS SIGNAGE
  - 66 PRE-FABRICATED SELF FLASHING MECHANICAL FRAME
  - 67 OUTLET BELOW SINK FOR GARBAGE DISPOSAL
  - 68 3'-0" x 5'-0" ALUMINUM SLIDER WINDOW WITH 1/4" LAMINATED GLASS GRAYLITE (4) AND SCREEN
  - 69 4'-0" LONG 4'-0" HIGH (TOP OF WINDOW 1'-0" ABOVE FINISH FLOOR) FIXED WINDOW USE 1/4" CLEAR LAMINATED GLASS IN FIXED ALUMINUM FRAME. FRAME TO BE DARK BRONZE. BRONZE POWDER FINISH.
  - 70 2'-0" x 4'-0" ACOUSTICAL T-BAR CEILING
  - 71 MEDIA CABINET
  - 72 1" MINI BLINDS AT ALL INTERIOR AND EXTERIOR WINDOWS - COLOR AS SELECTED BY "LEVOLOR" AS PER ADDENDUM # (N.I.C.)
  - 73 DATA/TELEPHONE - PROVIDE ONE OUTLET FOR EACH FUNCTION - INSTALL 1" CONDUIT ONLY FOR TELEPHONE. INTERCONNECT ALL OUTLETS & STUBS ABOVE CEILING - INSTALL 2" CONDUIT ONLY FOR DATA. INTERCONNECT ALL OUTLETS & STUBS ABOVE CEILING. PROVIDE FULL WIRES FOR ALL CONDUITS.
  - 74 2" BLANK CONDUIT FOR DATA
  - 75 4'-0" x 6'-0" PROJECTION/MARKERBOARD
  - 76 CLOCK OUTLET
  - 77 EMERGENCY LIGHT - LOCATION AS SELECTED BY DISTRICT
  - 78 HANDICAPPED APPROVED THRESHOLD
  - 79 VINYL COVERED TACK BOARD WALLS
  - 80 CARPET
  - 81 CONCRETE RAMP AND LANDING MEDIUM BROOM FINISH
  - 82 GALVANIZED HANDRAILS / RAILINGS
  - 83 RECESSED ELECTRICAL PANEL / PANELS AS REQUIRED.
  - 84 1" BLANK CONDUIT FOR TELEPHONE
  - 85 3/4" BLANK CONDUIT FOR INTERCOM
  - 86 CONCRETE SPLASH BLOCK
  - 87 A.C. UNIT
  - 88 1/2" BLANK CONDUIT ADD EXTERIOR COVER PLATE FOR FUTURE FLOODLIGHT
  - 89 EXTERIOR LIGHT FIXTURE
  - 90 MINERAL SURFACE GAP SHEET ROOF GUTTER & DOWNSPOUTS
  - 91 THERMOSTAT
  - 92 4'-0" x 4'-0" ALUMINUM SLIDER WINDOW WITH 1/4" LAMINATED GLASS GRAYLITE (4) AND SCREEN
  - 93 SHEET VINYL FLOORING WITH 4" SELF COVERED BASE
  - 94 MARLITE WALL PANELS FULL HEIGHT (BOBRIK SERIES B-6106)
  - 95 HANDICAPPED GRAB BARS
  - 96 4'-0" x 4'-0" ALUMINUM SLIDER WINDOW WITH 1/4" LAMINATED GLASS GRAYLITE (4) AND SCREEN
  - 97 REFRIGERATOR SPACE ONLY
  - 98 WATER CLOSET
  - 99 LAVATORY
  - 100 KITCHEN SINK WITH GARBAGE DISPOSAL
  - 101 6'-0" LONG 4'-0" HIGH (TOP OF WINDOW 1'-0" ABOVE FINISH FLOOR) FIXED WINDOW USE 1/4" CLEAR LAMINATED GLASS IN FIXED ALUMINUM FRAME. FRAME TO BE DARK BRONZE. BRONZE POWDER FINISH.
  - 102 FIRE EXTINGUISHER
  - 103 WALL EXHAUST FAN - TIE INTO CEILING
  - 104 FLUORESCENT LIGHT FIXTURE
  - 105 WASHABLE GLS. TILE @ KITCHEN & TOILET ROOMS

**EXIT DOOR REQUIREMENTS**

ALL EXIT DOOR IN SCHOOL BUILDINGS INCLUDING BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF CHAPTER 10 C.B.C. OR SECTION 1004, TITLE 24, C.C.R.

THE FOLLOWING ARE SOME OF THE REQUIREMENTS:

- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 33 AND 44 INCHES ABOVE THE FIN. FLOOR.
- DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE. (8.5 LBS. MAX. DOOR PRESSURE)

**DOOR SCHED. FOR 60' x 32' CLASSROOM:**

TYPE	SIZE	FRAME
D-1	32' x 78' x 1 3/8" x 18GA.	16 GA. F. METAL FRAME HOLLOW METAL

**HARDWARE**

LOCKSET: D70PD RHODES (SCHLAGE)  
 CLOSER: 1600 SERIES (NORTON)  
 BUTTS: TA2714 N.R.P. 4 1/2" x 4 1/2" P.C. (MCKINLEY)  
 THRESHOLD: 171A x 36" LG. (PEMCO)  
 DOOR BOTTOM: 216 AV-36" LG. (PEMCO)  
 WEATHERSTRIP: 319 AN (PEMCO)

**NOTES**

PROVIDE PANIC HARDWARE AS REQUIRED. (VON DUPRIN 22 50 SERIES RIM DEVICES)

APPROVED: 10 29 93  
 DATE: NOV 17 1999

IDENTIFICATION STRIP  
 DIV. OF THE STATE ARCHITECT

APPROVED ARCHITECT  
 ADOLPH ZIEMBA, INC.  
 C-23198  
 SEP 2 0 2001  
 STATE OF CALIFORNIA

**FLOOR PLAN & REFLECTED CEILING PLAN**

**SANTANA ALTERNATIVE EDUCATION CENTER**  
**ROWLAND UNIFIED SCHOOL DISTRICT**  
**1830 LOSALES ST. ROWLAND HEIGHT, CA 91768**

APPROVED ARCHITECT  
 ADOLPH ZIEMBA, INC.  
 111 N. FIRST STREET, SUITE 204, RIVERBANK, CA 91902  
 PHONE (619) 841-2585 FAX (619) 841-7765

CHECKED BY: AZ DATE: 05/17/99  
 DRAWN BY: FL JOB NO: 990425  
 DESIGNED BY: AZ  
 PREPARED BY: AZ

AS PER FAX MEMORANDUM 4/21/99  
 DATE: 8/25/99

REVISION BY: ND DATE: \_\_\_\_\_

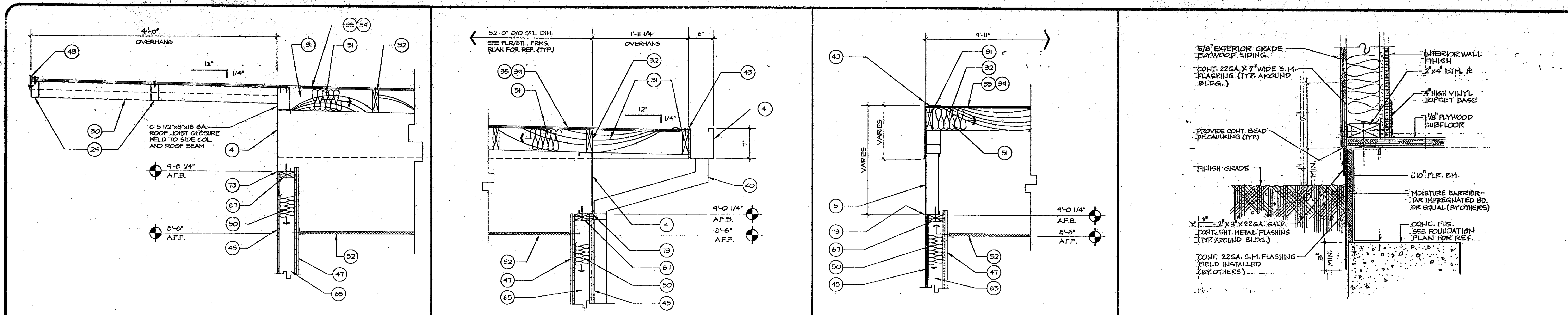
NOV 17 1999

A-1



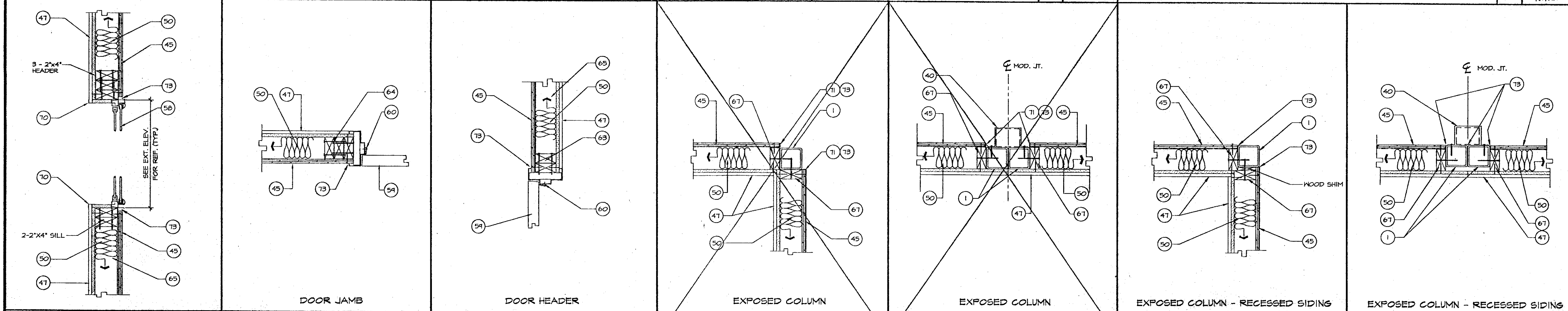




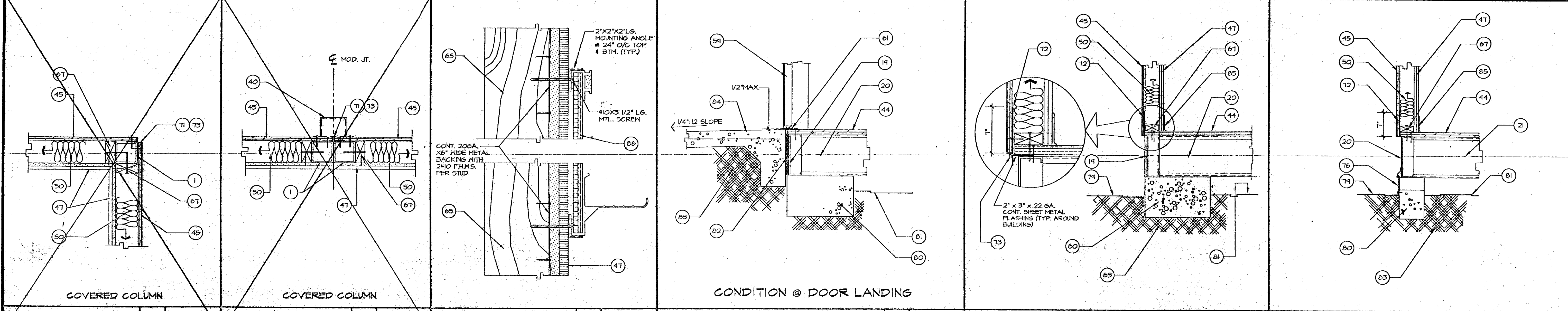


- REFERENCE NOTES (AS APPLICABLE)**
- TS 3 1/2"x3 1/2" 11 GA. COLUMN
  - TS 3 1/2"x3 1/2" 11 GA. INTERMEDIATE COL.
  - STL. PL. 1/4" x 3 1/2" x 0-1/2" OUTRIGGER/ COLUMN SUPPORT
  - C 15"x3 3/8"x1/2 GA. END ROOF BEAM
  - C 15"x3 3/8"x1/2 GA. SIDE ROOF BEAM
  - C 15"x3 3/8"x1/2 GA. SLOPE # MOD. JOINT (TYP)
  - C 10"x3 1/4 GA. ROOF BEAM
  - 3/16" THK STIFFENER PLATE
  - 1/4" THK. COLUMN CAP PLATE (TOP # BOT)
  - 3/4" NUT, TACKHELD INSIDE CAP PLATE
  - L 2 1/2"x2 1/2"x3/16"x0-2 3/4" L6. CLIP
  - L 2 1/2"x2 1/2"x3/16"x0-3 1/2" L6. CLIP
  - L 2 1/2"x2 1/2"x3/16"x0-5" L6. CLIP
  - 1/8" HOLES W/ 1/2" NUT TACKHELD INSIDE COL.
  - 2 1/2"x2 1/2"x3/16" STEEL PLATE
  - 1/2" MACHINE BOLT (TYP)
  - 5/8" MACHINE BOLT (TYP)
  - C 10"x3 1/4 GA. FLOOR END BEAM (TYP)
  - C 10"x3 1/4 GA. FLOOR SIDE BEAM/JOIST (TYP)
  - C 10"x3 1/4 GA. BLOCKING
  - 1 1/4" WIDE x 20 GA. BRIDGING STRAPS
  - L 2"x2"x1/4 GA. # EXT. SIDES OF MODULES # BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
  - L 5"x3 1/4 GA. X0-6" L6.
  - TS 3 1/2"x3 1/2" 12"x16 GA. X1-1/2" L6. LEDGER. SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
  - TS 3 1/2"x3 1/2" 12"x16 GA. X1-1/2" L6. LEDGER. SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
  - TS 3 1/2"x3 1/2" 12"x16 GA. X1-1/2" L6. LEDGER. SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
  - TS 4"x2"x3 1/2" GA. ROOF JOIST HELDED # EACH END TO TS 4"x2"x3 1/2" GA. OUTRIGGER (TYP)
  - TS 4" x 2" x 1/2" GA. OUTRIGGER HELDED TO TS 3 1/2"x3 1/2" 12"x16 GA. COL. (SEE RP. FRAMING PLAN FOR REF. (TYP))
  - 2"x6" D.F. #1 RIM JOIST (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
  - 2"x6" D.F. #3 ROOF JOIST # 24" O/C W/ (3) 1/4" NAILS # EA. END, (RIM JOIST TO ROOF JOIST) (TYP) W/ LB-26 SIMPSON JOIST HANGERS # EXTERIOR SIDES ONLY (SEE ROOF FRAMING PLAN FOR REF.)
  - (2) 2"x4" (PLAT) STUD POSTS TOGETHER WITH 1/4" SQUARE HOLES ON 25 GA. SHEET METAL FRAME RIVETED TO 2-4 GA. SHEET METAL BRACKET ON TOP # SCREWED TO FLOOR BEAM # CONC. FOOTING WITH #3 # 1 1/4" L6. S.M.S. WITH EXPANSION SHIELD # 24" O/C.
  - UNDERFLOOR VENT (SEE FOUNDATION PLAN FOR REF.)
  - EXISTING GRADE OR FINISH GRADE.
  - CONCRETE FOUNDATION.
  - BUILDING PAD / DIRT PAD.
  - MOISTURE BARRIER - TAR IMPREGNATED BOARD OR EQUAL (BY OTHERS)
  - APPROVED CONTACTED FILL.
  - 4" THK. CONCRETE SLAB WITH 6"x6 - W4x4x4 REIN. (BY OTHERS)
  - 4" HIGH VINYL TORSION BASE (TYP)
  - CHALKBOARD - (2) 2"x4" SECTIONS WITH CHALKBOARD MOLDING # MAP RAIL WITH HOOK # FLAG HOLDER (2'-6" A.F.F.)

SECTION 1 SCALE 1 1/2"=1'-0" SECTION 2 SCALE 1 1/2"=1'-0" SECTION 3 SCALE 1 1/2"=1'-0" TYPICAL FLASHING DETAIL SCALE N.T.S.



SECTION 4 SCALE 1 1/2"=1'-0" SECTION 5 SCALE 1 1/2"=1'-0" SECTION 6 SCALE 1 1/2"=1'-0" SECTION 7 SCALE 1 1/2"=1'-0" SECTION 8 SCALE 1 1/2"=1'-0" SECTION 9 SCALE 1 1/2"=1'-0" SECTION 10 SCALE 1 1/2"=1'-0"

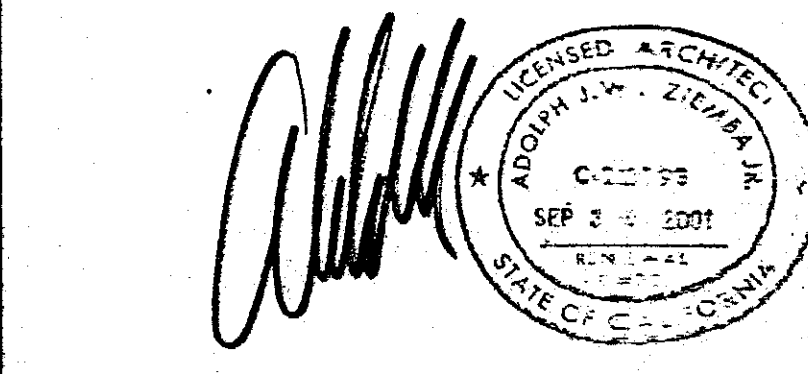


SECTION 11 SCALE 1 1/2"=1'-0" SECTION 12 SCALE 1 1/2"=1'-0" CHALKBOARD DET. 13 SCALE N.T.S. DETAIL 14 SCALE 1 1/2"=1'-0" DETAIL 15 SCALE 1 1/2"=1'-0" DETAIL 16 SCALE 1 1/2"=1'-0"

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.

PROFESSIONAL ENGINEER  
 ARCHITECT  
 PROFILE STRUCTURES, INC.  
 30740750/60x32' - CLASSROOM BUILDINGS  
 RIGID FRAME - BUILT UP ROOF/WOOD STUDS  
 SCALE: NOTED DATE: 08/25/16  
 DRAWN BY: FS/JN/MLM  
 REVISED: 11/01/19  
 JOB NO: M99-06  
 PC-295  
 ARCHITECTURAL DETAILS & SECTIONS  
 DRAWING NUMBER: A-2W

DIVISION OF THE STATE ARCHITECT  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 OFFICE OF REGULATION SERVICES  
 APPL # PC-295  
 DATE: OCT 03 2018



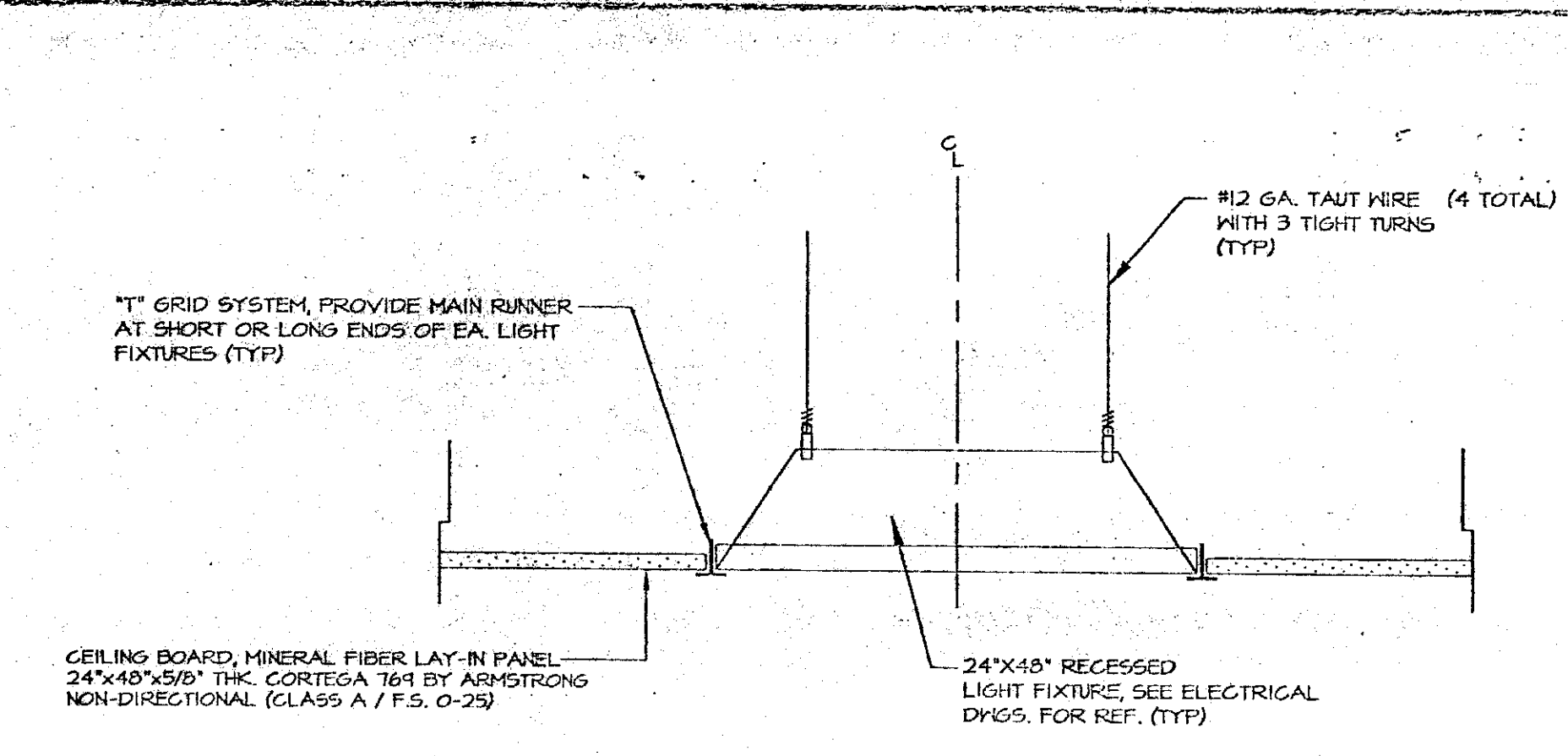
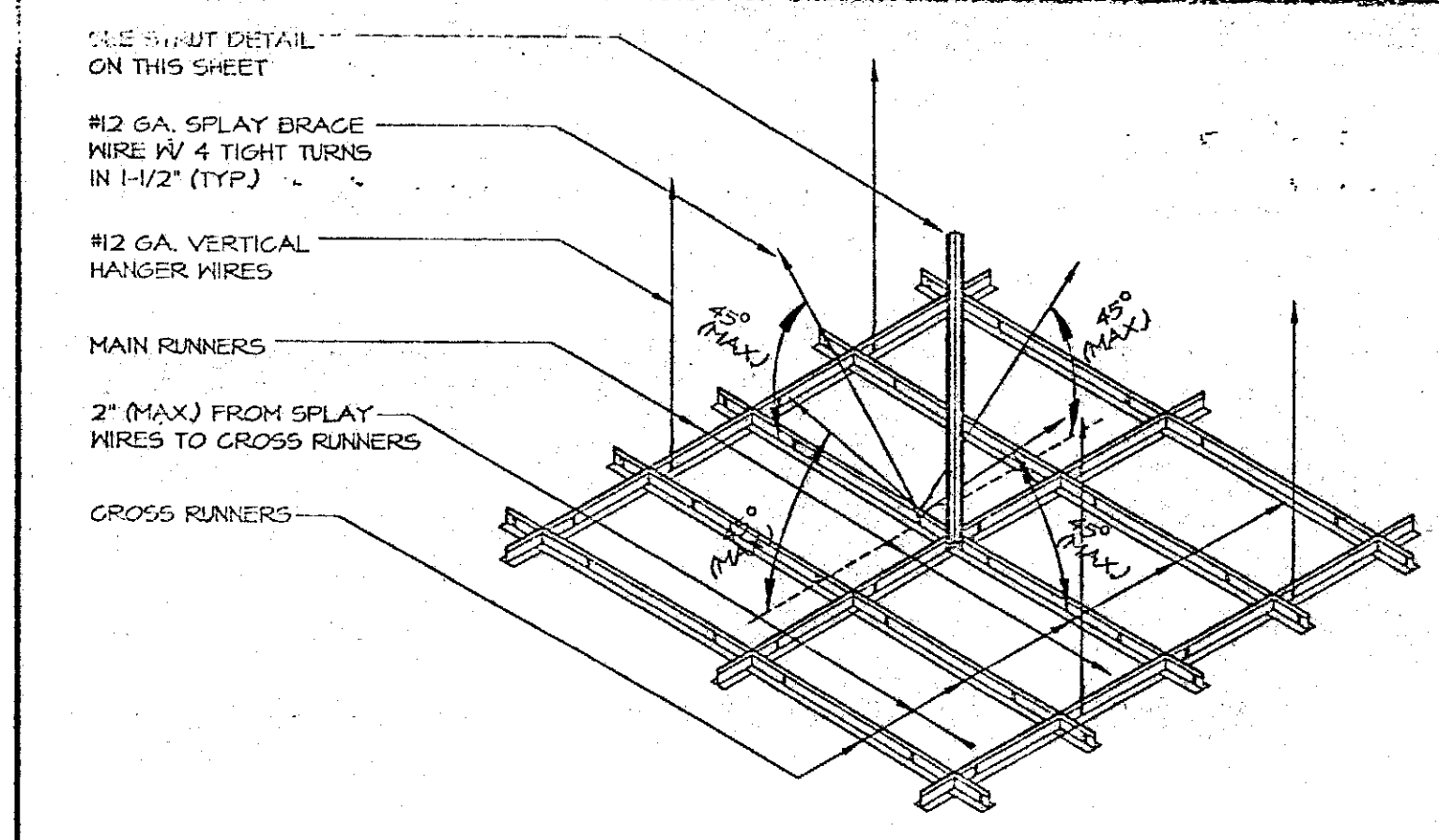
18 990303  
 JAN 18 2000



**SUSPENDED ACOUSTICAL CEILING NOTES**  
AS APPLICABLE

- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 40"x40" GRID SPACING. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A./S.S.S.
- PROVIDE 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 LEAST AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZOID 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 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF THE MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2" CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERSECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADS. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACINGS:
  - (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
  - (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACINGS FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS FOR BOTH SCHOOL AND HOSPITAL BUILDINGS.
 THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT GAUGING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A./S.S.S. APPROVAL.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE 1-1/2 INCHES. HANGER OR BRACING WIRES 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. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS A SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO D.S.A./S.S.S.
- ATTACHED ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN (56 POUNDS) MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4" X 4" LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
- ALL FIXTURES AND AIR TERMINALS OR SERVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT #12 GA. WIRES ATTACHED TO THE STRUCTURE ABOVE.
  - ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING MORE THAN (56 POUNDS) MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 #12 GA. TAUT WIRES ATTACHED TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.
  - THE 4 TAUT #12 GA. WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING 4 TIMES THE HEIGHT OF THE UNIT.
- SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE SUPPORTED FROM THE STRUCTURE ABOVE BY A #12 GA. WIRE SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER. ARE NOT ACCEPTABLE.
- SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE HEIGHT OF THE FIXTURE.

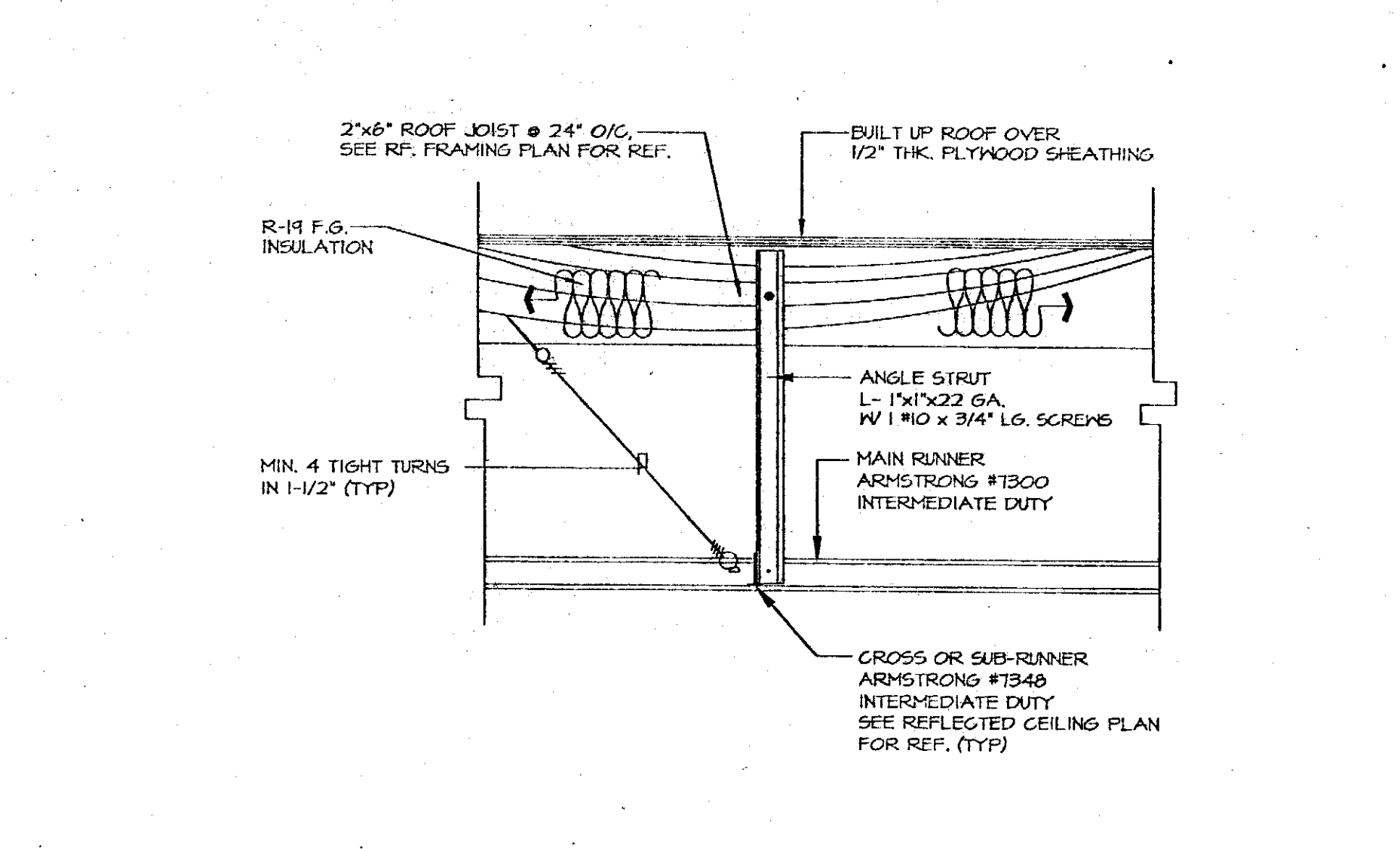
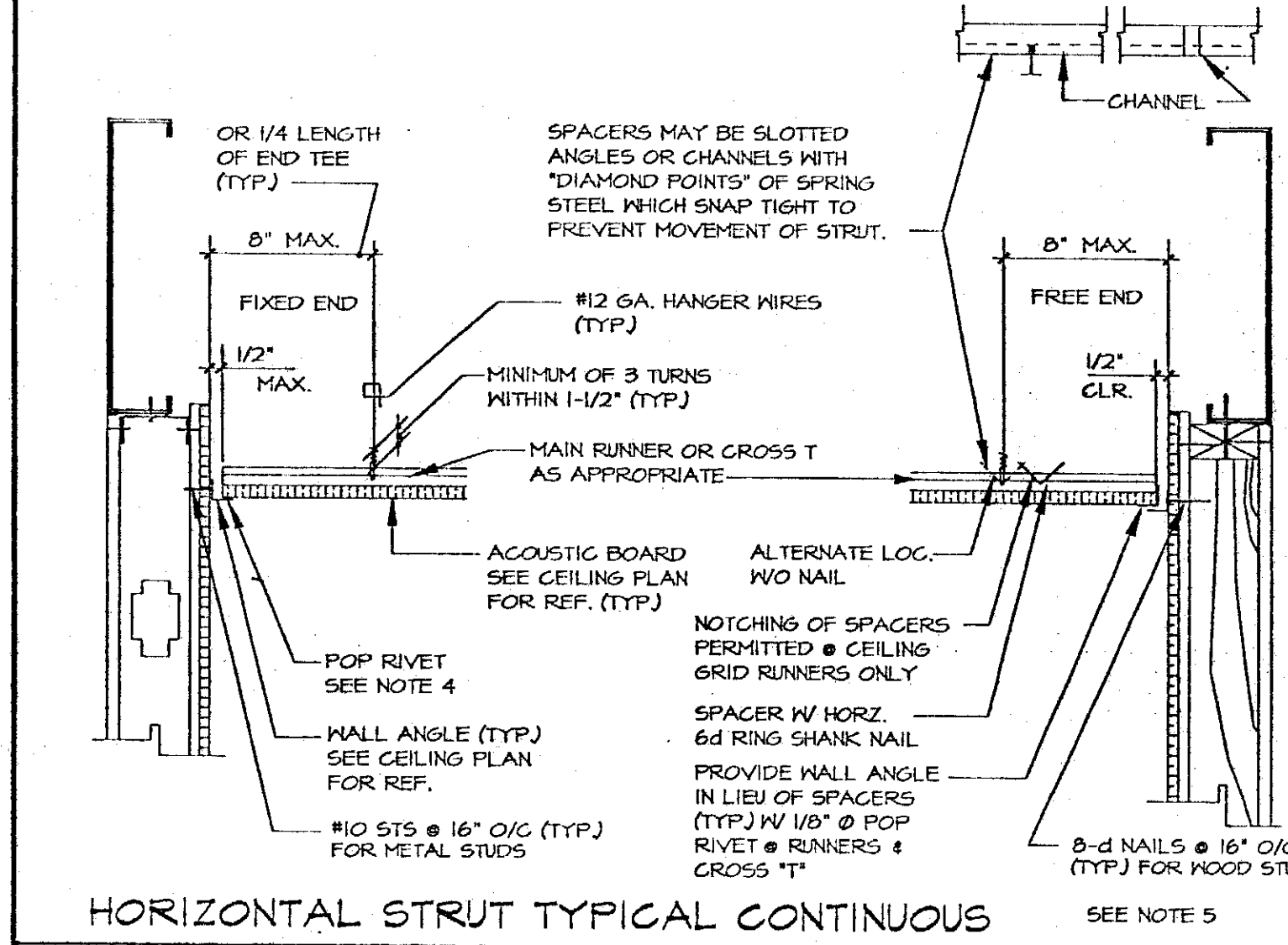
RECOMMENDED NOTE ON PLANS:  
CLASSIFICATION OF CEILING GRID  
CLASSIFICATION OF CEILING GRID IS  
MANUFACTURER'S CAT. NO. - MAIN RUNNER  
ARMSTRONG #1300  
INTERMEDIATE DUTY  
MANUFACTURER'S CAT. NO. - CROSS RUNNER  
ARMSTRONG #1348  
INTERMEDIATE DUTY



**REFERENCE NOTES** (AS APPLICABLE)

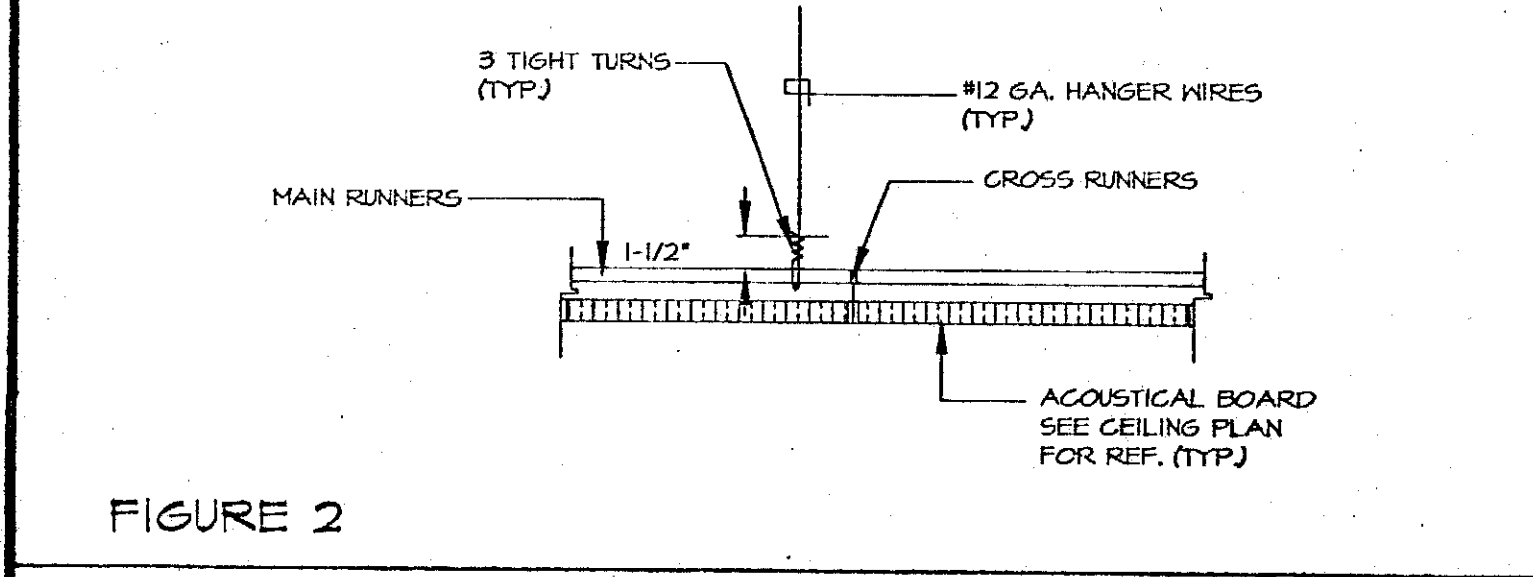
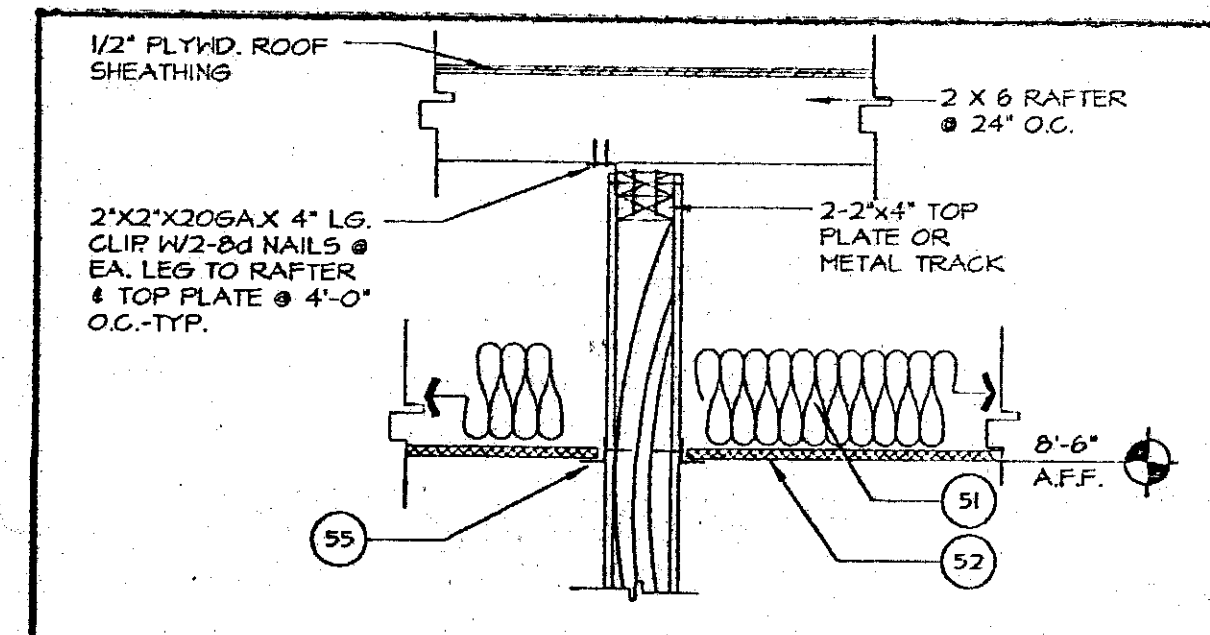
ACCEPTABLE ATTACHMENT FOR CEILING GRID A SCALE N.T.S.

TYPICAL LIGHT FIXTURE DETAIL 2 SCALE 1/2\"/>



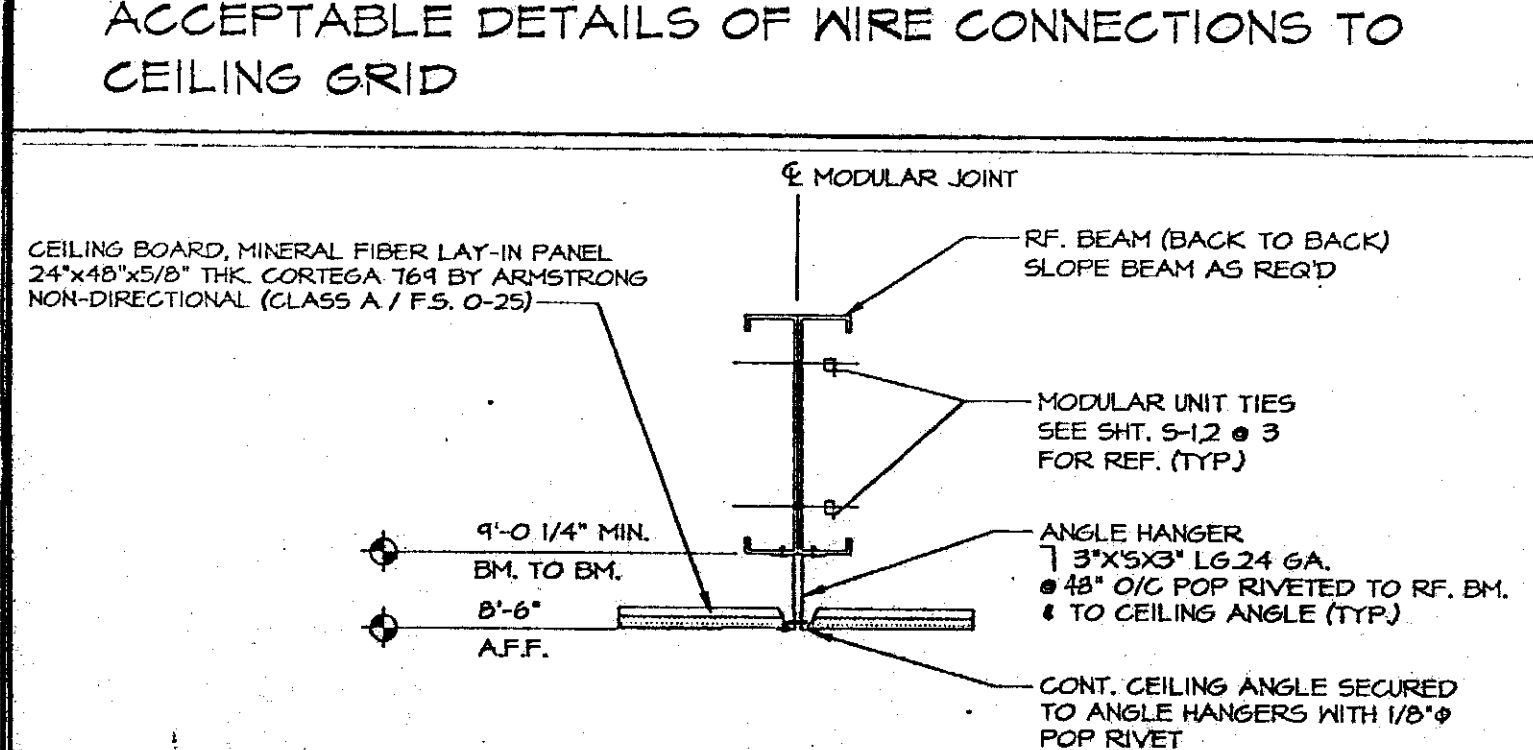
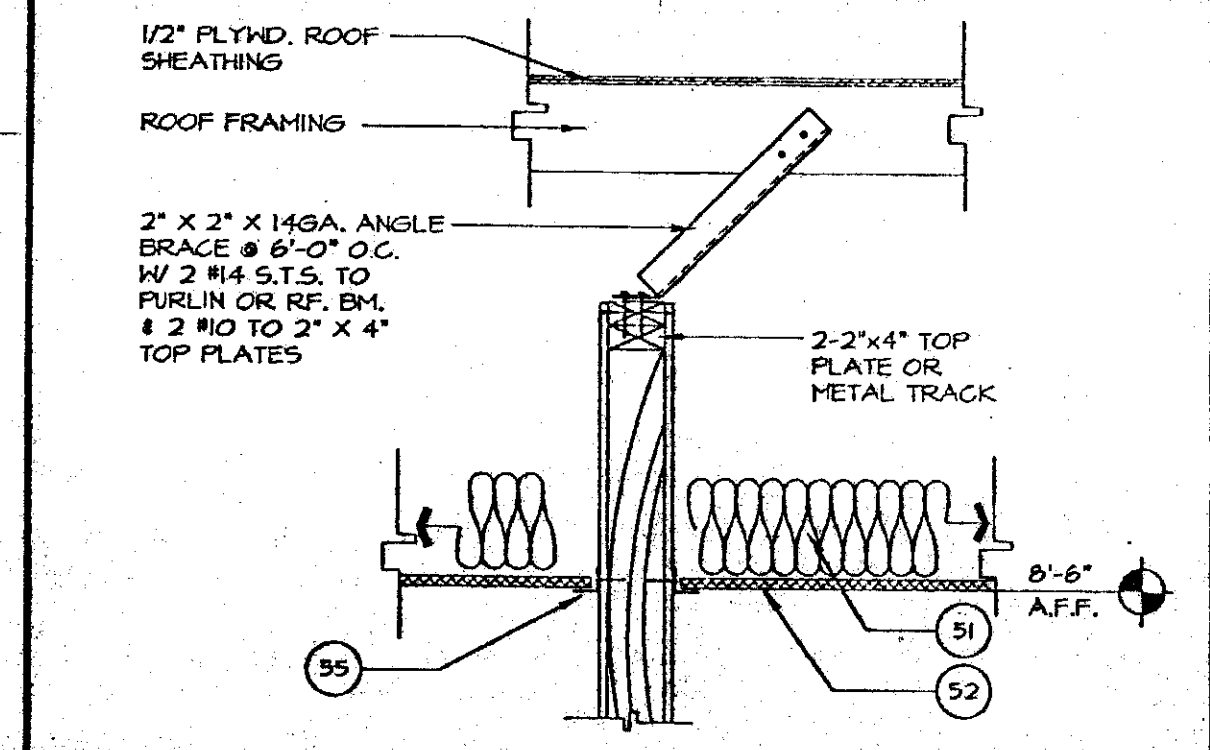
DETAIL B SCALE N.T.S.

TYP. HANGER TAB & WIRE DET. 3 SCALE 1/2\"/>



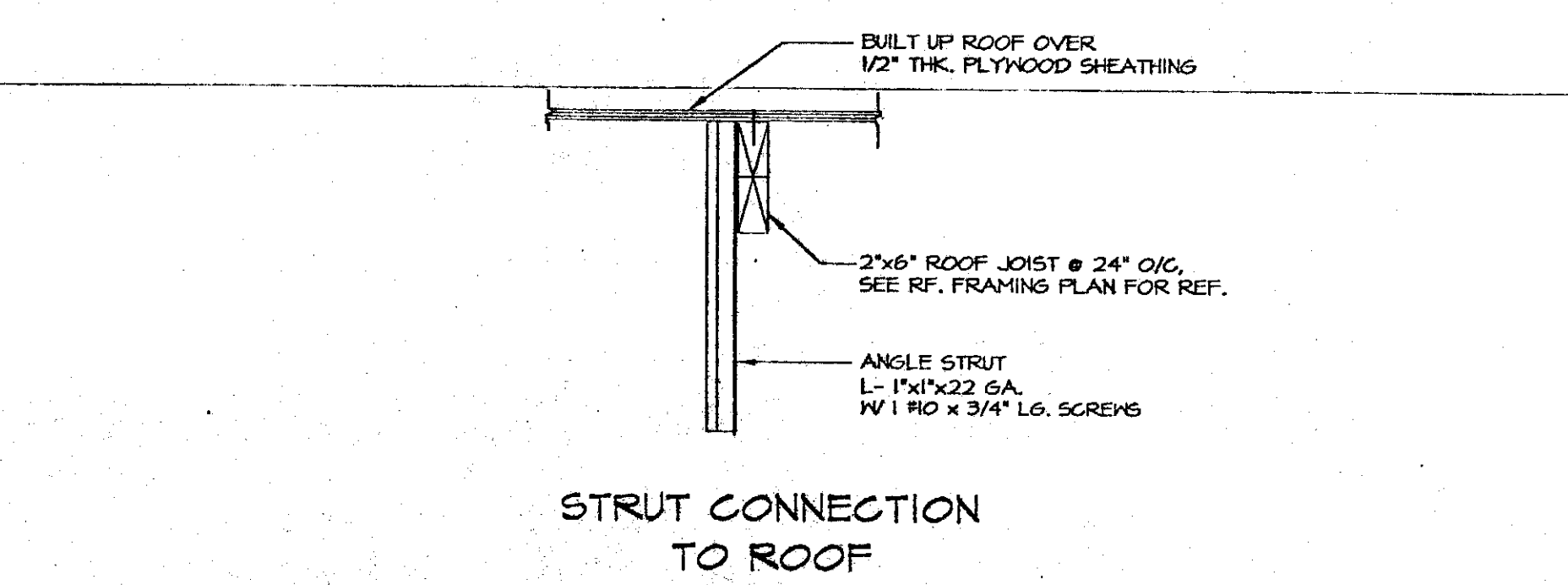
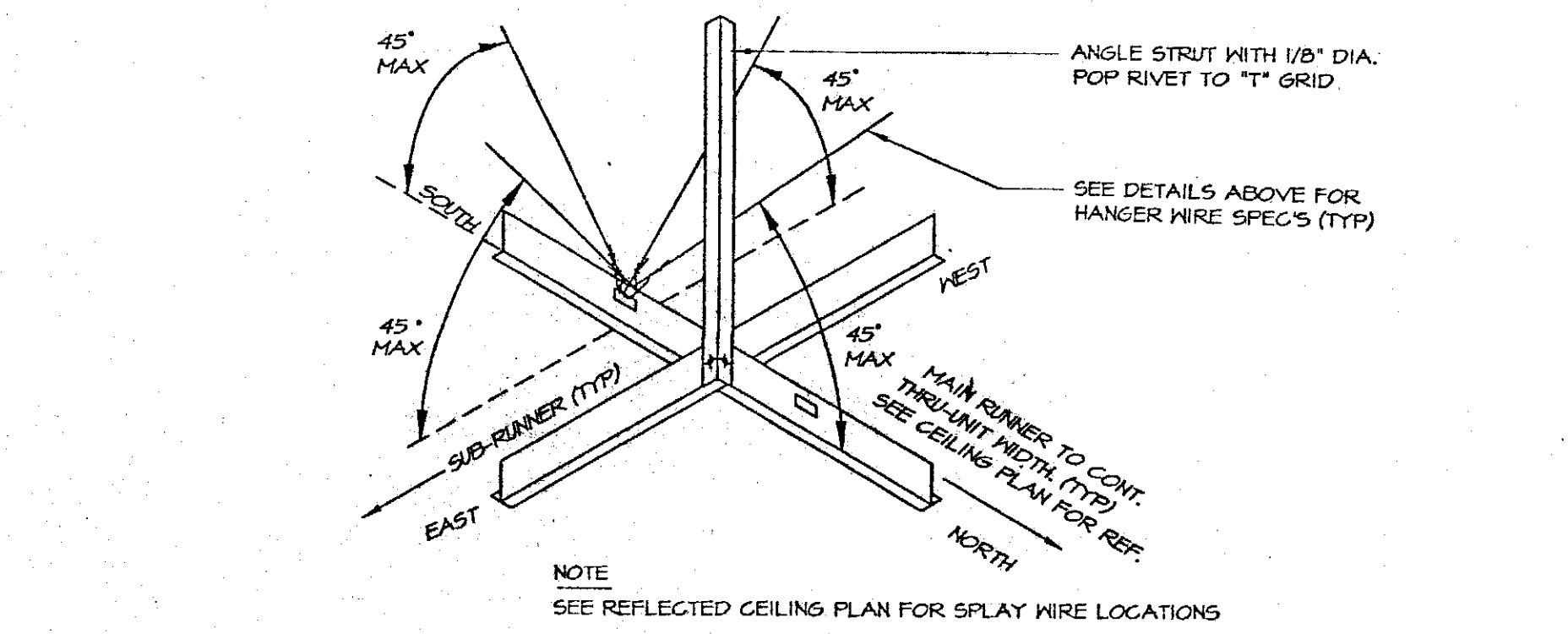
SECTION 5 SCALE 1\"/>

DETAIL C SCALE N.T.S.



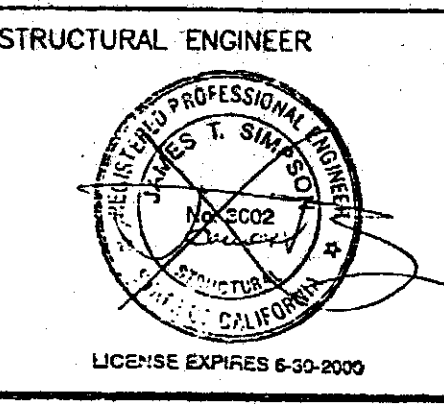
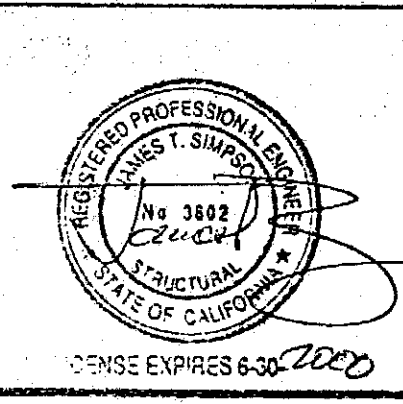
SECTION 6 SCALE 1\"/>

DETAIL 1 SCALE 1\"/>



TYPICAL SPLAY WIRE DETAIL 4 SCALE N.T.S.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.



STRUCTURAL ENGINEER ARCHITECT

**PROFILE STRUCTURES, INC.**  
CONTRACTORS LICENSE # 58071, 61

30'40'50'60' x 32' - CLASSROOM BUILDINGS  
RIGID FRAME - BUILT UP ROOF - WOOD/METAL STUDS

SCALE NOTED APPROVED BY DATE 08/26/16

DRAWN BY FS/LVG/JM  
REVISOR 11/01/14  
JOB NO. 111-01-06  
JOB # PG-295

DRAWING NUMBER A-3

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APPROVED 102932  
DATE NOV 17 1999

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES

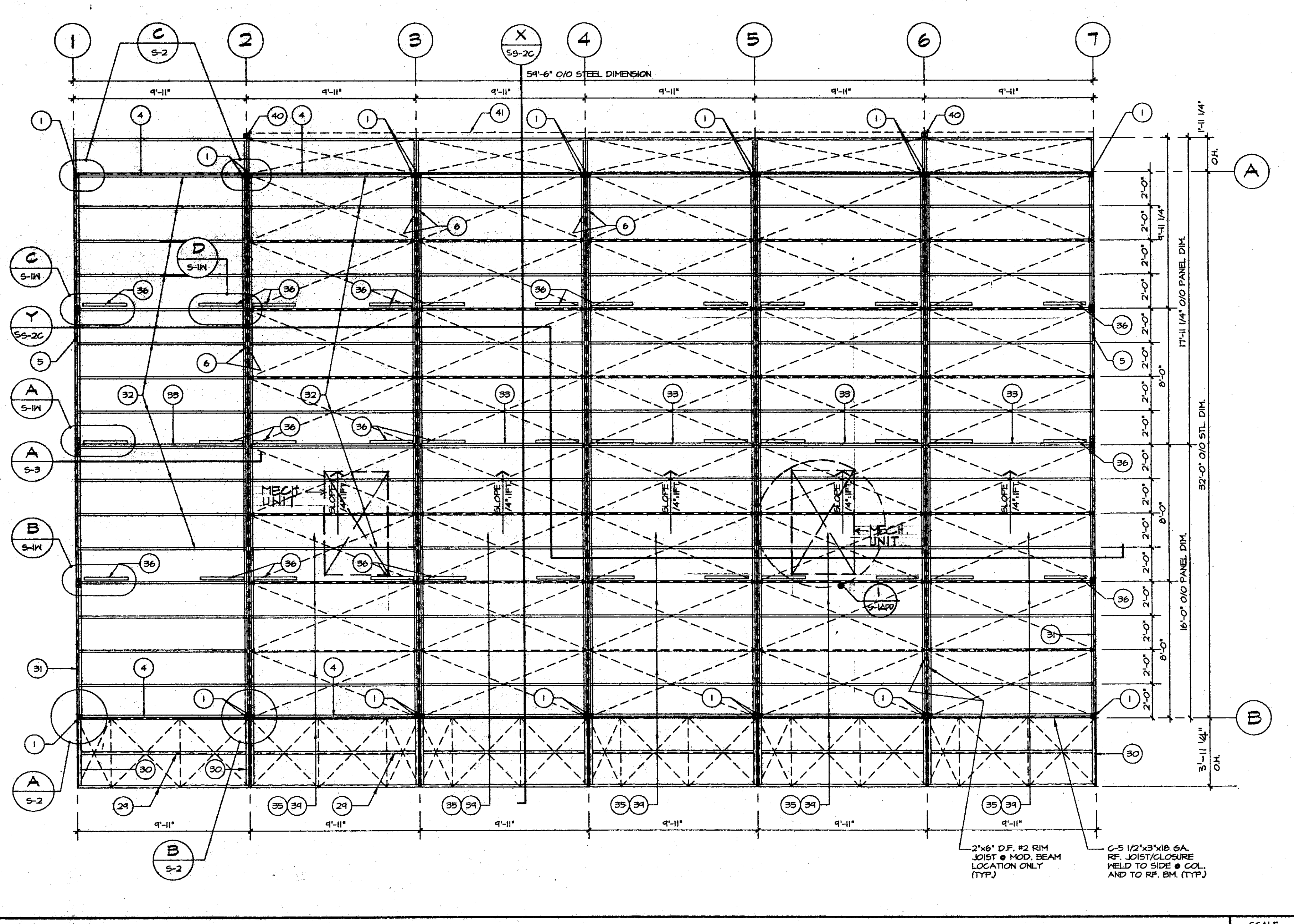
APPL. # PG-295  
DATE OCT 03 2008

NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	BY

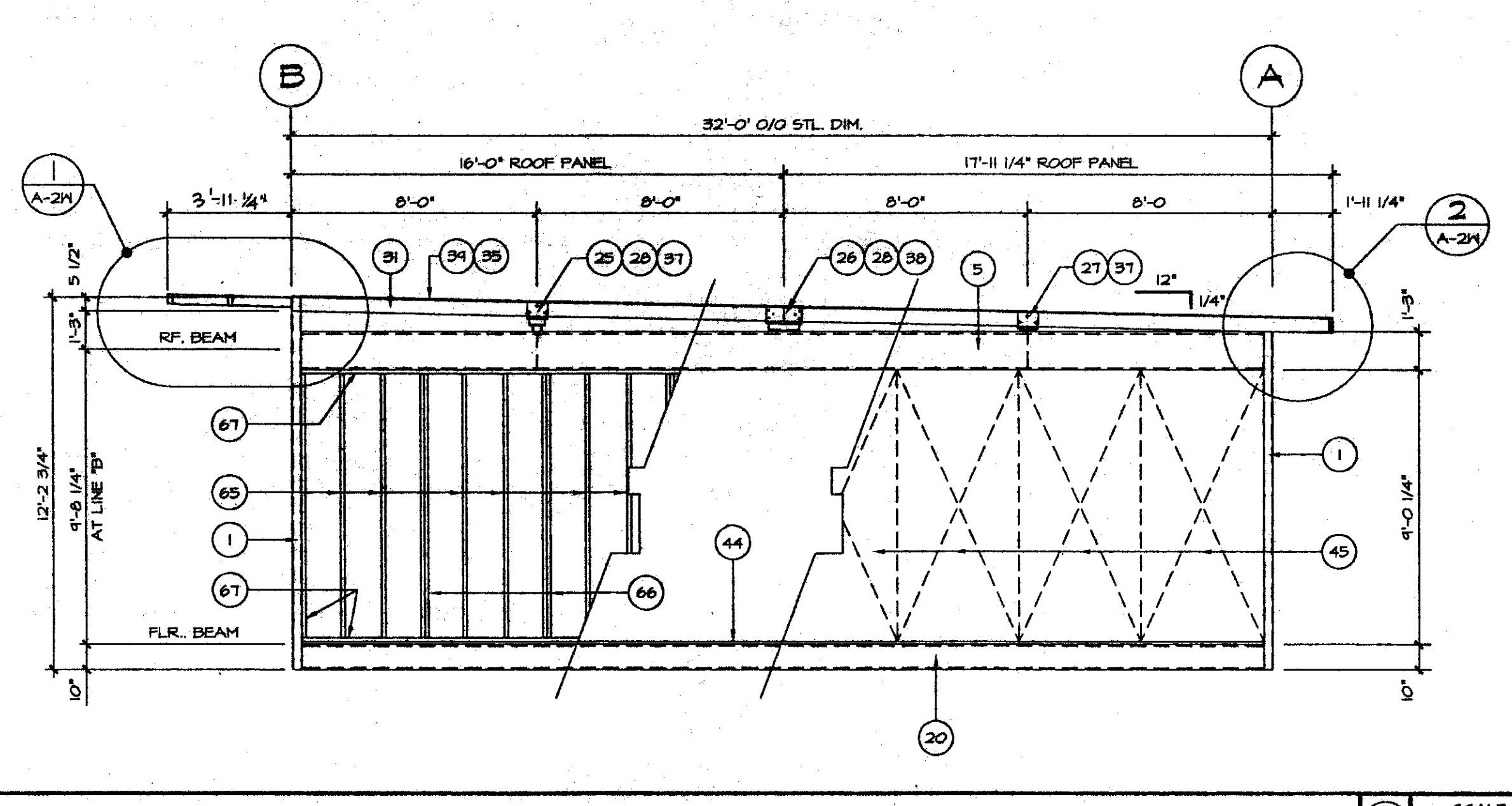
3 JAN 18 2000





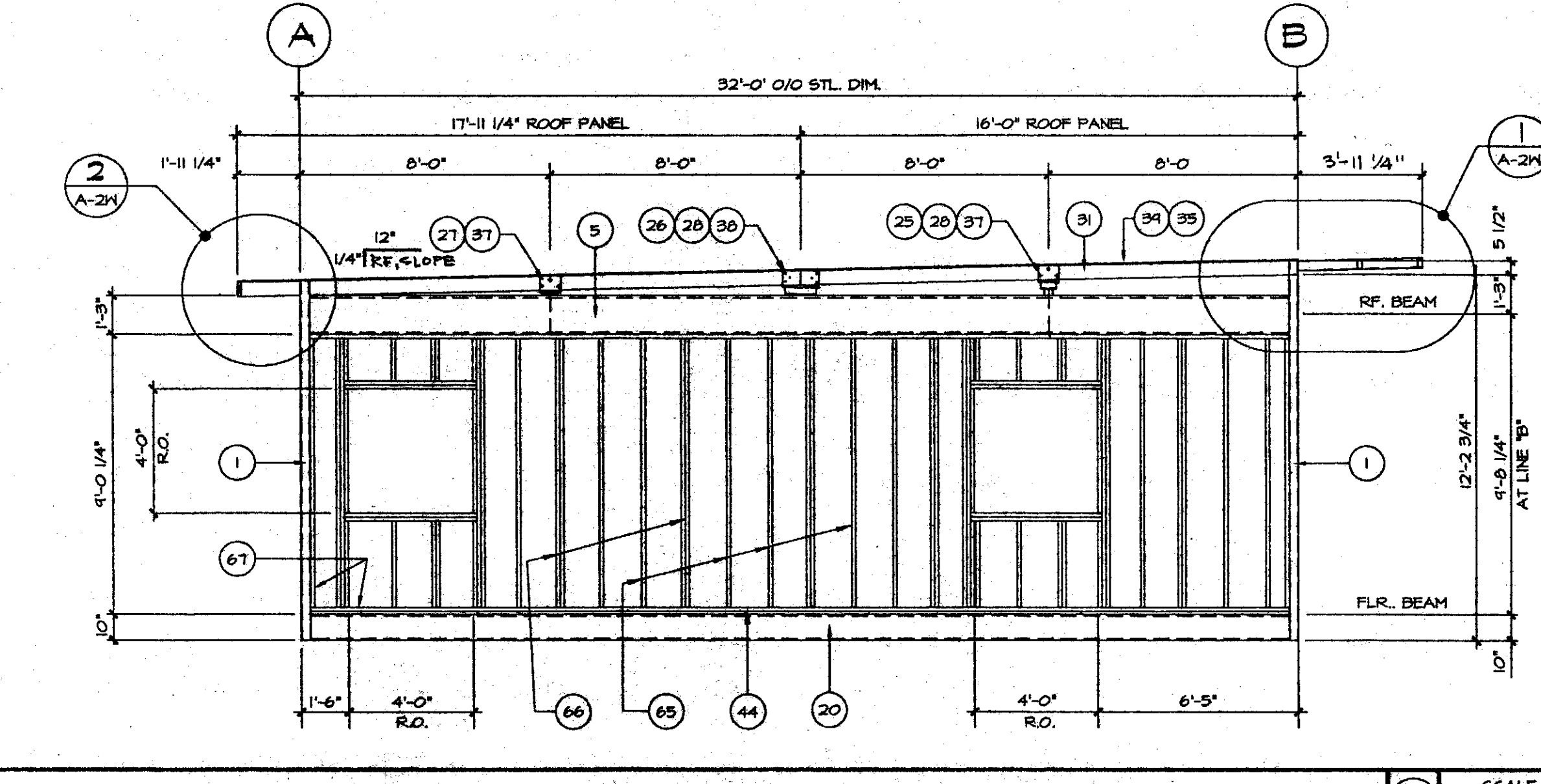
ROOF FRAMING PLAN

SCALE 1/4"=1'-0"



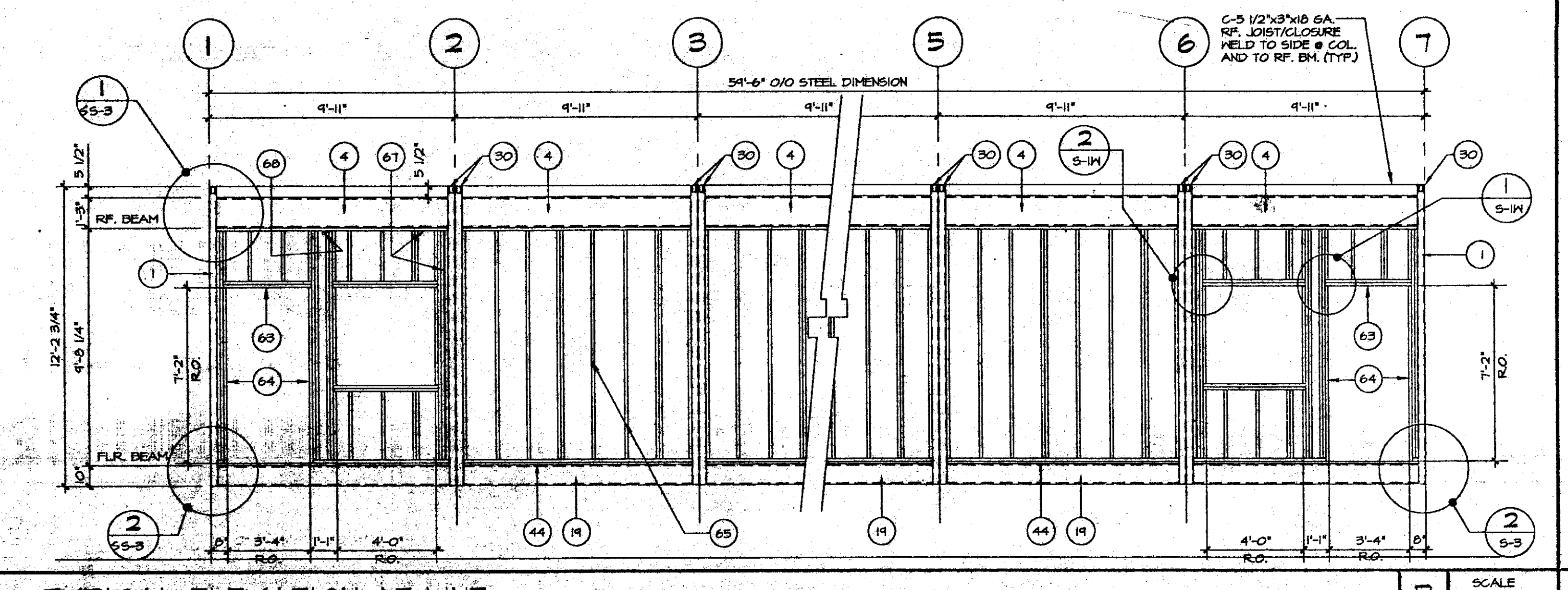
ELEVATION @ LINE

SCALE 1/4"=1'-0"



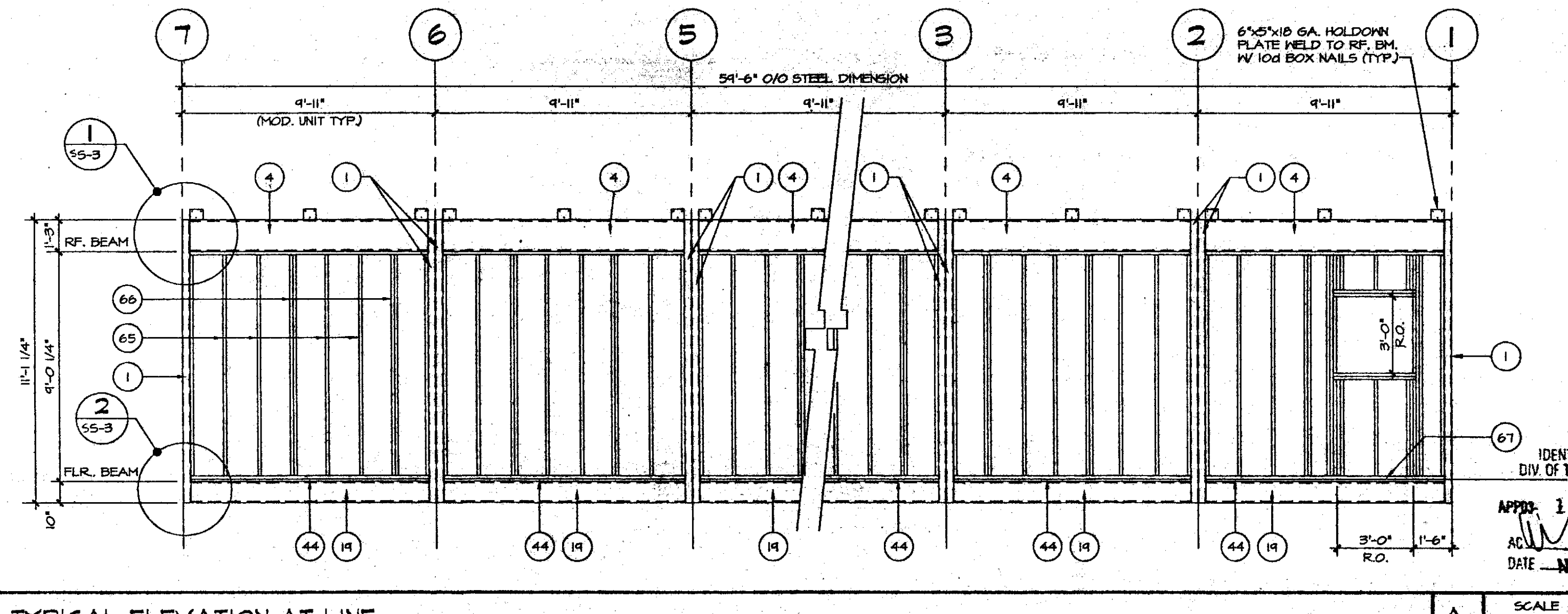
ELEVATION @ LINE

SCALE 1/4"=1'-0"



TYPICAL ELEVATION AT LINE

SCALE 1/4"=1'-0"



TYPICAL ELEVATION AT LINE

SCALE 1/4"=1'-0"

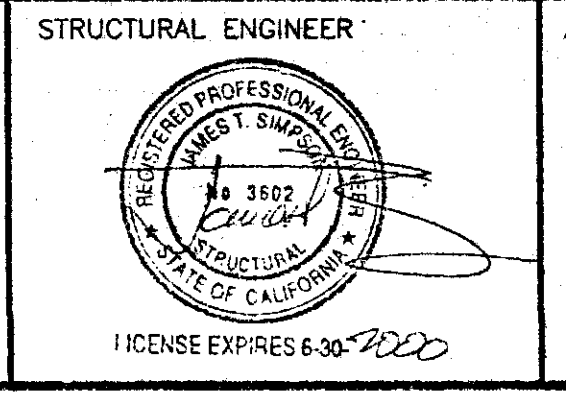
REFERENCE NOTES : (AS APPLICABLE)

1. TS 3 1/2x3 1/2x1/2 II GA. COLUMN
2. TS 3 1/2x3 1/2x1/2 II GA. INTERMEDIATE COL.
3. STL. PL. 1/4" x 3 1/2" x 0'-6" 1/2" OUTRIGGER/LEDGER SUPPORT DIST.
4. C 15x8 3/8x1/2 GA. END ROOF BEAM
5. C 15x8 3/8x1/2 GA. SIDE ROOF BEAM
6. C 15x8 3/8x1/2 GA. SLOPE @ MOD JOINT (TYP.)
7. C 15x8 1/2x1/2 GA. SLOPE @ MOD JOINT (TYP.)
8. C 10x3x1/4 GA. ROOF BEAM
9. 3/16 THK STIFFENER PLATE
10. 1/4 THK COLUMN CAP PLATE (TOP & BOT)
11. 3/4" NUT, TACKLED INSIDE CAP PLATE
12. L 2 1/2x2 1/2x3/8x1/2 3x1/16 CLIP
13. L 2 1/2x2 1/2x3/8x1/2 3x1/16 CLIP
14. L 2 1/2x2 1/2x3/8x1/2 3x1/16 CLIP
15. 4/16" HOLES W/ 1/2" NUT TACKLED INSIDE COL.
16. 2 1/2x2 1/2x3/8" STEEL PLATE
17. 1/2" MACHINE BOLT (TYP.)
18. 5/8" MACHINE BOLT (TYP.)
19. C 10x3x1/4 GA. FLOOR END BEAM (TYP.)
20. C 10x3x1/4 GA. FLOOR SIDE BEAM/JOIST (TYP.)
21. C 10x3x1/4 GA. BLOCKING
22. 1 1/4" WIDE x 20 GA. BRIDGING STRAPS
23. L 2x2x1/4 GA. @ EXT. SIDES OF MODULES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
24. L 5x3x1/4 GA. @ 1'-6"
25. TS 3 1/2x3 1/2x1/2x1/2 L6. LEDGER. SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
26. TS 3 1/2x3 1/2x1/2x1/2 L6. LEDGER. SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
27. TS 2x4x1/2x1/2 L6. LEDGER/STOOL HELD TO RF. BM. & HOLD DN. PLATE. SEE DETAIL FOR REF.
28. TS 3 1/2x3 1/2x1/2x1/2 L6. STOOD HELD TO RF. BM. & LEDGER. USE DET. AS REQ'D. (SEE DET. FOR REF.)
29. TS 4x2x1/2 GA. ROOF JOIST HELD @ EACH END TO TS 4x2x1/2 GA. OUTRIGGER (TYP.)
30. TS 4x2x1/2 GA. OUTRIGGER HELD TO TS 3 1/2x3 1/2x1/2x1/2 L6. COL. (SEE RF. FRAMING PLAN FOR REF. (TYP.))
31. 2x6" D.F. #1 RIM JOIST (TYP.) SEE ROOF FRAMING PLAN FOR REF. (TYP.)
32. 2x6" D.F. #2 ROOF JOIST @ 24" O/C W/ (3) 16d NAILS @ EA. END. RIM JOIST TO ROOF JOIST (TYP.) W/ LB-26 SIMPSON JOIST HANGERS @ EXTERIOR SIDES ONLY (SEE ROOF FRAMING PLAN FOR REF.)
33. (2) 2x4" STUD @ 4'-0" O/C SPIKE TOGETHER WITH 8d NAILS @ PLYWOOD EDGE NAIL SPACINGS.
34. (2) 2x4" STUD @ 4'-0" O/C SPIKE TOGETHER WITH 8d NAILS @ PLYWOOD EDGE NAIL SPACINGS.
35. (2) 2x4" FRAMING PLATE WITH 0.145" HLT. SHOT FITTING TO ROOF BRIM/FLOOR BM & COLLARS @ 16" O/C (TYP.) PROVIDE A-34 SIMPSON CLIPS AS SHOWN (TYP.)
36. (2) 2x4" (PLATE) STUD ROOF SPIKE TOGETHER WITH 8d NAILS @ 24" O/C (2) ROWS W/ (2) 2x4" PLATES @ EA. SIDE W/ 16d NAILS @ 24" O/C TYP. @ A/C SUPPORT
37. (2) 2x4" (PLATE) STUD ROOF SPIKE TOGETHER WITH 8d NAILS @ 24" O/C (2) ROWS W/ (2) 2x4" PLATES @ EA. SIDE W/ 16d NAILS @ 24" O/C TYP. @ A/C SUPPORT
38. (2) 2x6" D.F. #2 (AT ROOF PANEL JOINT) SPIKE TOGETHER W/ 16d GALV. BOX NAILS (2) ROWS STAGGED. (TYP.) SEE ROOF FRAMING PLAN FOR REF.
39. LB-26 SIMPSON JOIST HANGERS (TYP.)
40. L-2x3x1/4 GA. BRACING (TYP.) SEE ROOF FRAMING PLAN FOR REF. (TYP.)
41. 1/2" THK PLYWOOD SHEATHING (TYP.) STRUCT-1 (2x4" STUD @ EXTERIOR GRADE) W/ 8d GALV. BOX NAILS @ 6" O/C ON ALL EDGES AND @ 12" O/C IN FIELD (TYP.) SEE ROOF FRAMING PLAN FOR REF.
42. 6" x 6" L6. X 18 GA. SHT. METAL HOLD DN. PLATE W/ (6) 1/2x1/2 L6. WOOD SCREWS TO RIM JOIST, HELD TO STL. TUBE RISER STOOL. AT PANEL JOINT. SEE DETAIL FOR REF.
43. 6" x 6" L6. X 18 GA. SHT. METAL HOLD DN. PLATE W/ (6) 1/2x1/2 L6. WOOD SCREWS TO RIM JOIST, HELD TO STL. TUBE RISER STOOL. AT PANEL JOINT. SEE DETAIL FOR REF.
44. 2x4" FRAMING PLATE WITH 0.145" HLT. SHOT FITTING TO ROOF BRIM/FLOOR BM & COLLARS @ 16" O/C (TYP.) PROVIDE A-34 SIMPSON CLIPS AS SHOWN (TYP.)
45. 5/8" THK. EXTERIOR GRADE PLYWOOD SIDING (THU) PLAIN OVER 1/2" PAPER OR 4 MIL VEGGEBY WITH 8d BOX NAILS @ 6" O/C ON EDGES AND 12" O/C IN FIELD (TYP.) PAINT FINISH TO BE SELECTED BY SCHOOL DIST. (FOR METAL STUDS) USE #8 FLST. SCREWS @ 6" O/C ALL EDGES AND 12" O/C IN FIELD (TYP.)
46. 7/8" THK. PORTLAND CEMENT PLASTER FINISH OVER PAPERBACK METAL LATH OVER 3/8" THK. PLYWOOD SHEATHING.
47. 1/2" THK. FIRTEX OVER 1/2" THK. GYPSUM BOARD.
48. 1/2" THK. DURASAN INTERIOR WALL FINISH.
49. 5/8" THK. GYPSUM BOARD (PAINT FINISH)
50. R-11 F.G. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50.
51. R-14 F.G. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50 SUPPORTED W/ 1x2" PLASTIC NETTING SECURED TO BTH. OF RF. JOIST W/ 1/2" STAPLES (TYP.)
52. CEILING BOARD, MINERAL FIBER LAY-IN PANEL, 24"x48"x1/2" THK. CORTEX 791 BY ARMSTRONG, NON-DIRECTIONAL (CLASS A / F.S. 0-25) (TYP.)
53. MAIN RUNNER - ARMSTRONGS # 7800 INTER. DUTY
54. CROSS RUNNER - ARMSTRONGS # 7848 INTER. DUTY
55. WALL ANGLE - ARMSTRONGS # 7800 NON-CLASSIFIED
56. ANGLE HANGER - 8x8x3/4 GA. @ 24" O/C - ROOF RIVETED TO ROOF BEAM & TO WALL ANGLE
57. CONT. WALL ANGLE SECURED TO ANGLE HANGERS WITH 1/2" POP RIVET. (TYP.)
58. 6'-0"x4'-0" (XO) NAIL ON ALUM. WINDOW (OPTIONAL)
59. 3'-0"x6'-0"x1/4" H.M. DOOR ON METAL FRAME
60. HEATHERSTRIP - 3/4" AN - PEKCO
61. THRESHOLD - 271A - PEKCO
62. DOOR BOTTOM - 216A - PEKCO
63. (2) 2x4" HEADER PLATE SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (2) ROWS TYP.
64. (2) 2x4" FULL HT. STUDS W/ (1) 2x4" TRIMMER OVER SIDING SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (2) ROWS TYP.
65. 2x4" STUD @ 16" O/C WITH 2-16d END NAILING
66. (2) 2x4" STUD @ 4'-0" O/C SPIKE TOGETHER WITH 8d NAILS @ PLYWOOD EDGE NAIL SPACINGS.
67. 2x4" FRAMING PLATE WITH 0.145" HLT. SHOT FITTING TO ROOF BRIM/FLOOR BM & COLLARS @ 16" O/C (TYP.) PROVIDE A-34 SIMPSON CLIPS AS SHOWN (TYP.)
68. (2) 2x4" (PLATE) STUD ROOF SPIKE TOGETHER WITH 8d NAILS @ 24" O/C (2) ROWS W/ (2) 2x4" PLATES @ EA. SIDE W/ 16d NAILS @ 24" O/C TYP. @ A/C SUPPORT
69. (2) 2x4" (PLATE) STUD ROOF SPIKE TOGETHER WITH 8d NAILS @ 24" O/C (2) ROWS W/ (2) 2x4" PLATES @ EA. SIDE W/ 16d NAILS @ 24" O/C TYP. @ A/C SUPPORT
70. PLASTIC MOULDING AROUND WINDOW OPENINGS.
71. SHEET METAL EDGE TRIM.
72. CONT. 22 GA. X 1" WIDE SHT. METAL FLASHING (TYP.) AROUND BUILDING
73. PROVIDE CONT. BEAD OF CAULKING.
74. 5/8" CONCRETE ANCHOR "WALBOLT" OR EQ.
75. 1/4" THK. TOP DOWN STEEL PLATE
76. GALV. WIRE SCREEN WITH 1/4" SQUARE HOLES ON 24 GA. SHEET METAL FRAME RIVETED TO 24 GA. SHEET METAL BRACKET ON TOP & SCREWED TO FLOOR BEAM & CONC. FOOTING WITH 1/4" L6. S.M.S. WITH EXPANSION SHIELD @ 24" O/C.
77. UNDERLOOR VENT (SEE FOUNDATION PLAN FOR REF.)
78. RAMPS AND LANDINGS (OPTIONAL)
79. EXISTING GRADE OR FINISH GRADE.
80. CONCRETE FOUNDATION
81. BUILDING PAD / DIRT PAD.
82. MOISTURE BARRIER - TAR IMPREGNATED BOARD OR EQUAL (BY OTHERS)
83. APPROVED COMPACTED FILL.
84. 4" THK. CONCRETE SLAB WITH 6x6 - W/ 4x4x4 REINFR. (BY OTHERS)
85. 4" HIGH VINYL TOPSET BASE (TYP.)
86. CHALKBOARD-210x24" SECTIONS WITH CHALK TRAY HOLDING & MAP RAIL WITH HOOK & FLAG HOLDER (2'-0" A.P.F.)

WINDOW OPENING FRAMING SCHEDULE

WINDOW SIZE: 4'-0"x4'-0"	WINDOW SIZE: 6'-0"x4'-0"
JAMBS (2) FULL HT. STUDS + (1) TRIMMER W/ (1) AS4 CLIPS @ EA. END	JAMBS (3) FULL HT. STUDS + (2) TRIMMER W/ (1) AS4 CLIPS @ EA. END
HEADERS (2) 2x4" PLATES SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (THO) ROWS	HEADERS (3) 2x4" PLATE SPIKE TOGETHER
SILLS (2) 2x4" PLATES SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (THO) ROWS	SILLS (2) 2x4" PLATES SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (THO) ROWS
JAMBS (2) FULL HT. STUDS + (1) TRIMMER W/ (1) AS4 CLIPS @ EA. END	JAMBS (3) FULL HT. STUDS + (2) TRIMMER W/ (1) AS4 CLIPS @ EA. END
HEADERS (2) 2x4" PLATES SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (THO) ROWS	HEADERS (3) 2x4" PLATE SPIKE TOGETHER
SILLS (2) 2x4" PLATES SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (THO) ROWS	SILLS (2) 2x4" PLATES SPIKE TOGETHER W/ 16d NAILS @ 24" O/C (THO) ROWS

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.



STRUCTURAL ENGINEER  
ARCHITECT

PROFILE STRUCTURES, INC.  
CONTRACTOR'S LICENSE # 248071 B1  
13228 CARMENTA RD. SANTA FE SPRINGS, CA 90703  
TEL: (714) 821-2251 FAX: (714) 821-2253

60' x 32' CLASSROOM BUILDING  
RIGID FRAME - BUILT UP ROOF - WOOD STUDS  
SCALE: NOTED APPROVED BY: DRAWN: ZD  
DATE: 03/14/95 REVISION: 4/1/99  
SANTANA ALTERNATIVE EDUCATION CENTER  
ROYLAND UNIFIED SCHOOL DISTRICT  
1850 NOBLES ST., ROYLAND HEIGHTS, CA 91740  
ROOF FRAMING PLAN / DETAILS & WALL FRAMING ELEVATIONS  
DRAWING NUMBER: M99-66  
REVISED: RS-1CN

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. \_\_\_\_\_  
AC: FLS \_\_\_\_\_ SS: \_\_\_\_\_  
DATE: \_\_\_\_\_

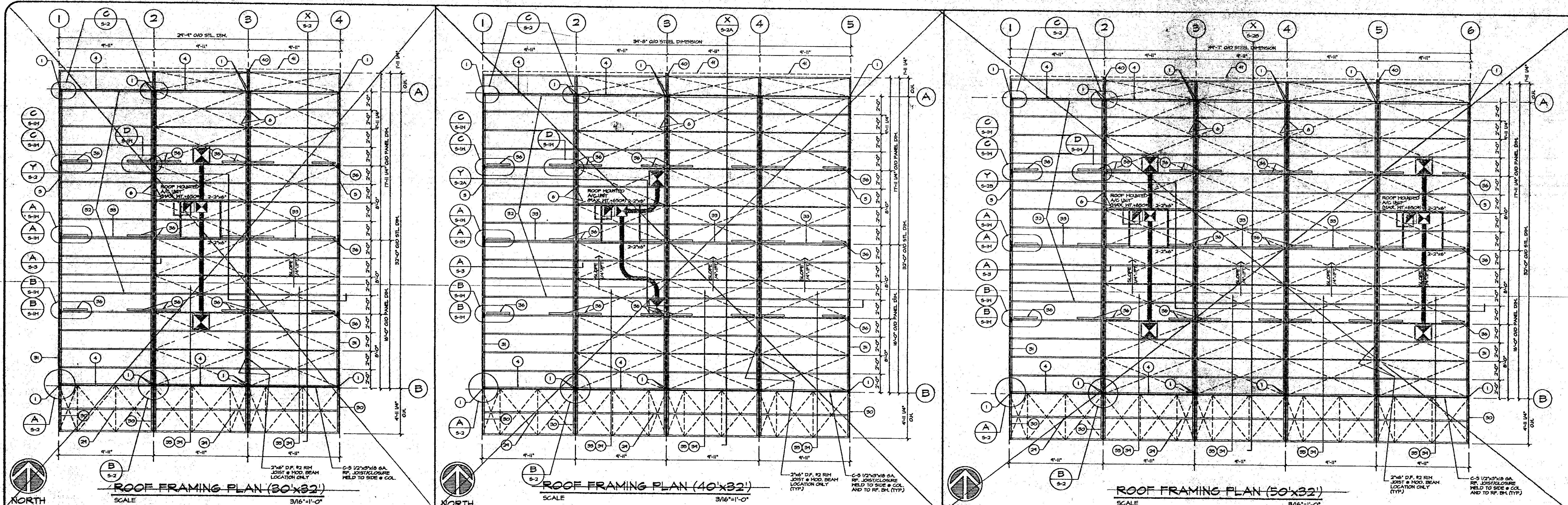
REV.	DATE	DESCRIPTION	BY

JAN 18 2003

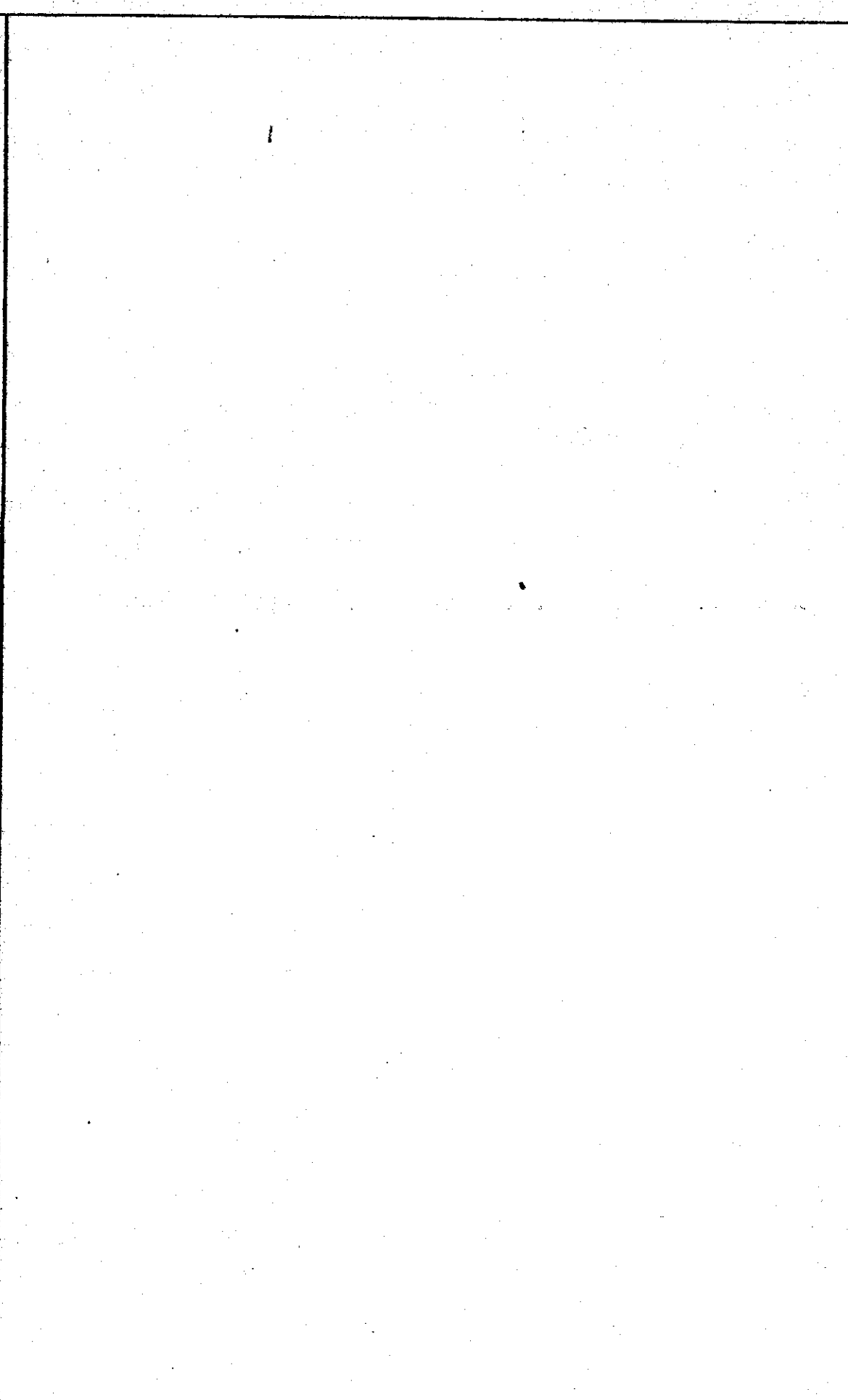
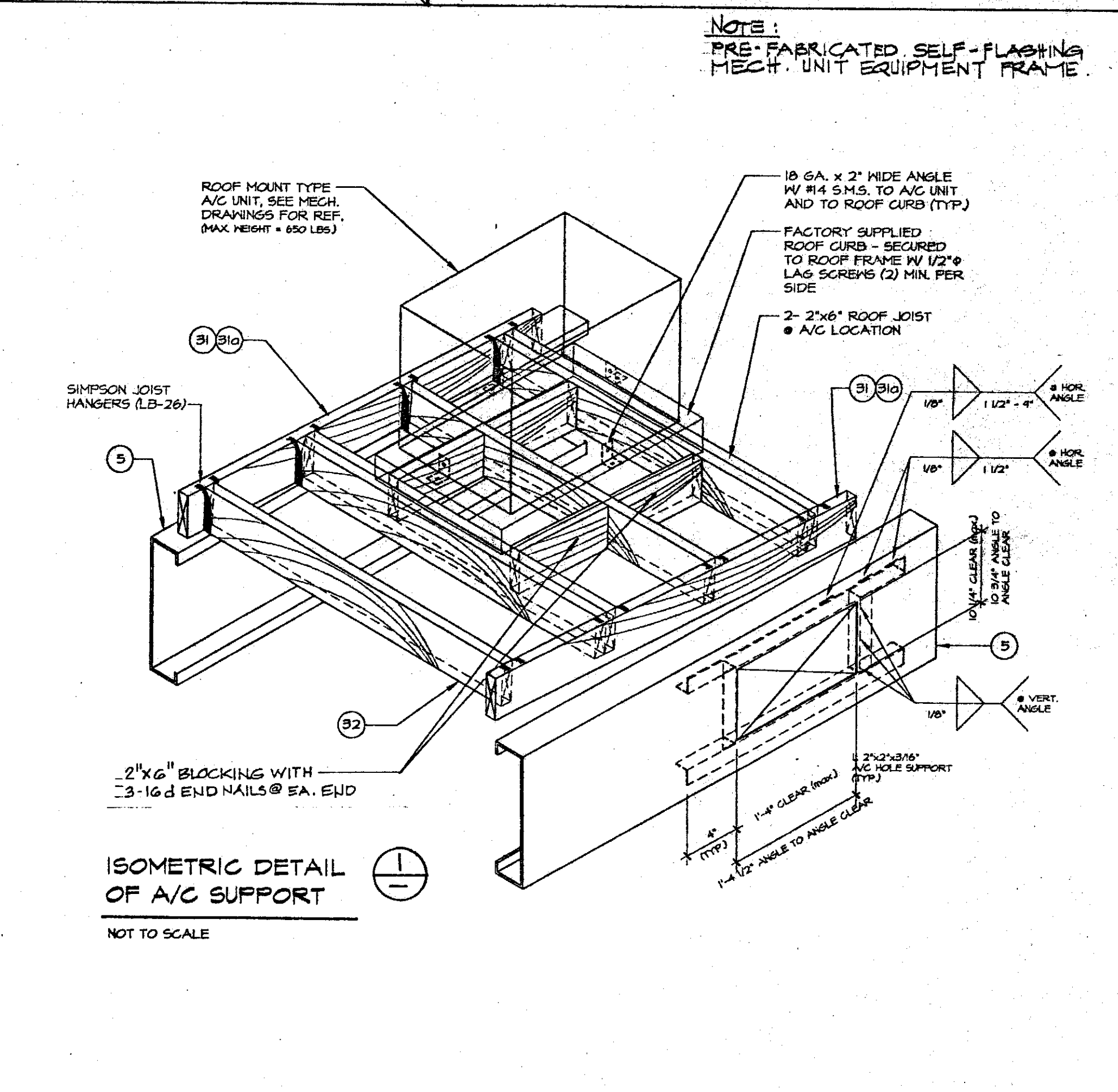
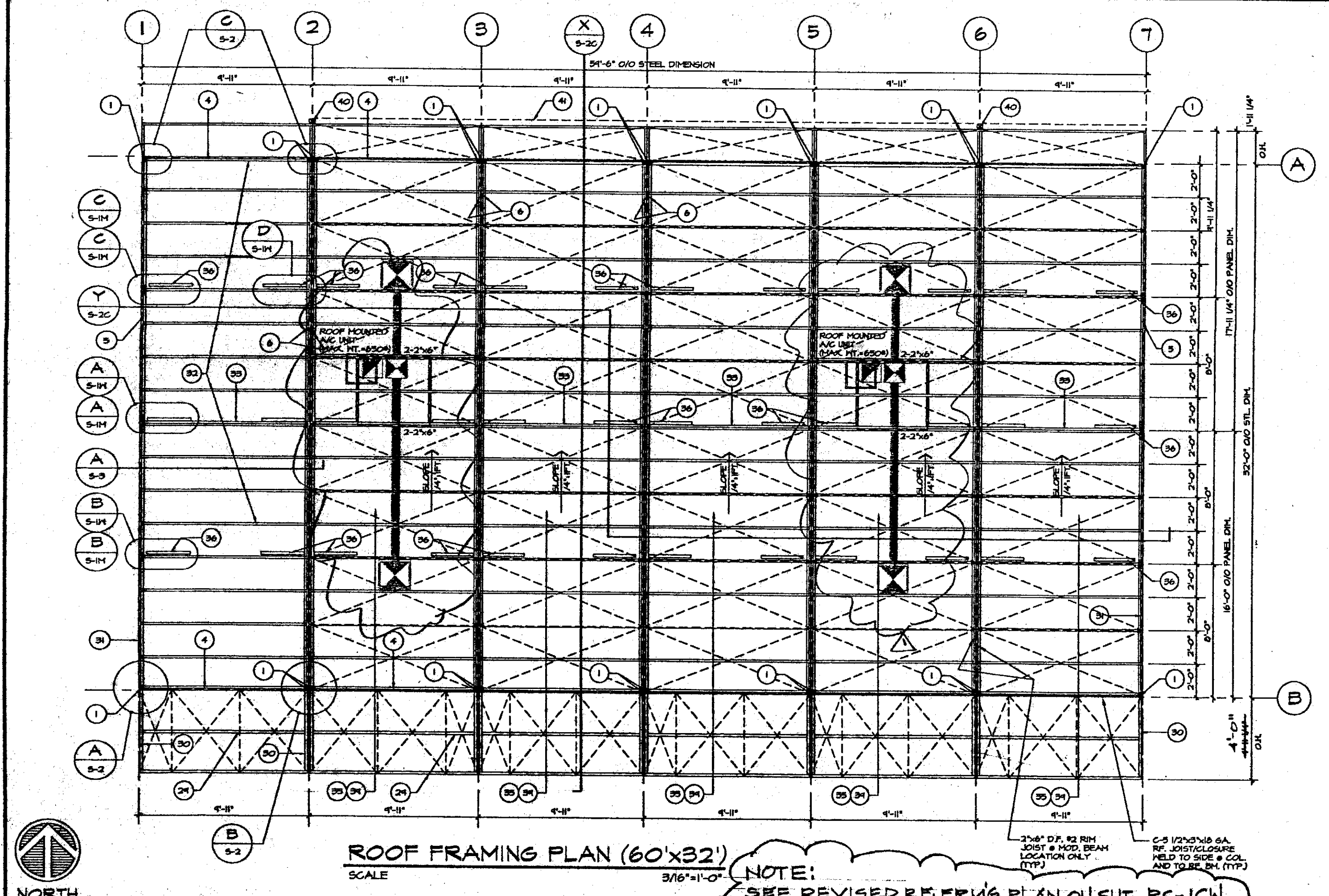








- REFERENCE NOTES : (AS APPLICABLE)**
- TS 3 1/2"x3 1/2"x1/2" GA. COLUMN
  - TS 3 1/2"x3 1/2"x1/2" GA. INTERMEDIATE COL.
  - S11. PL. 1/4" x 3 1/2" x 0'-6 1/2" OUTRIGGER/ COLUMN SUPPORT
  - C 15"x3 3/8"x1/2 GA. END ROOF BEAM
  - C 15"x3 3/8"x1/2 GA. SIDE ROOF BEAM
  - C 15"x3 3/8"x1/2 GA. SLOPE # MOD JOINT (TYP)
  - C 15"x3 1/2"x1/2 GA. SLOPE # MOD JOINT (TYP)
  - C 10"x3"x1/4 GA. ROOF BEAM
  - 3/8" THK. STIFFENER PLATE
  - 1/4" THK. COLUMN CAP PLATE (TOP & BOT)
  - 3/4" NUT, TACKLED INSIDE CAP PLATE
  - L 2 1/2"x2 1/2"x3/8"x0'-2 3/4" L.G. CLIP
  - L 2 1/2"x2 1/2"x3/8"x0'-3 1/2" L.G. CLIP
  - 1/8"x3 HOLES IN 1/2" NUT TACKLED INSIDE COL.
  - 2 1/2"x2 1/2"x3/8" STEEL PLATE
  - 1/2" MACHINE BOLT (TYP)
  - 5/8" MACHINE BOLT (TYP)
  - C 10"x3"x1/4 GA. FLOOR END BEAM (TYP)
  - C 10"x3"x1/4 GA. FLOOR SIDE BEAM/JOIST (TYP)
  - C 10"x3"x1/4 GA. BLOCKING
  - 1 1/4" WIDE x 20 GA. BRIDGING STRAPS
  - L 2"x2"x1/4 GA. # EXT. SIDES OF MODULES # BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
  - L 5"x3"x1/4 GA. #0 L.G.
  - TS 3 1/2"x3 1/2"x1/2" GA. #0 L.G. LEDGER, SEE DETAIL FOR REF. (INSTALL TO HATCH SLOPE OF RIM JOIST)
  - TS 3 1/2"x3 1/2"x1/2" GA. #0 L.G. LEDGER, SEE DETAIL FOR REF. (INSTALL TO HATCH SLOPE OF RIM JOIST)
  - TS 2"x4"x1/2" GA. #0 L.G. LEDGER/STOOL, WELDED TO RF, BK, & HOLD DN. PLATE, SEE DETAIL FOR REF.
  - TS 3 1/2"x3 1/2"x1/2" GA. STOOL WELDED TO RF, BK, & LEDGER TUBE, CUT AS REQ'D. (SEE DET. FOR REF.)
  - TS 4"x3"x1/2" GA. ROOF JOIST WELDED TO EACH END TO TS 3 1/2"x3 1/2"x1/2" GA. OUTRIGGER (TYP)
  - TS 4" x 2" x 1/4" GA. OUTRIGGER WELDED TO TS 3 1/2"x3 1/2"x1/2" GA. COL. (SEE REF. FRAMING PLAN FOR REF. (TYP))
  - 2"x6" D.F. #1 RIM JOIST (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
  - 2"x6" D.F. #2 ROOF JOIST # 24" O/C (3) 16'-NAILS @ EA. END, RIM JOIST TO ROOF JOIST (TYP), 1/4" LB-26 SIMPSON JOIST HANGERS @ EXTERIOR SIDES ONLY (SEE ROOF FRAMING PLAN FOR REF.)
  - 2"x6" D.F. #2 (AT ROOF PANEL JOINT) SPIKE TOGETHER 1/4" LB-26 GALV. BOX NAILS @ 24" O/C STAGGED. (TYP) SEE ROOF FRAMING PLAN FOR REF.
  - LB-26 SIMPSON JOIST HANGERS (TYP)
  - 1/2" THICK PLYWOOD SHEATHING (TYP) STRUCT-1 CDX 5-PLY (EXTERIOR GRADE) W/ 8d GALV. BOX NAILS @ 6" O/C ON ALL EDGES AND @ 12" O/C IN FIELD (TYP) SEE ROOF FRAMING PLAN FOR REF.
  - 2"x2"x1/4 GA. BRACING (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
  - 6" x 8" L.G. X 10 GA. SHIT. METAL HOLD DN. PLATE W/ (3) #10 X 1 1/2" L.G. WOOD SCREWS TO RIM JOIST, HELDED TO STL. TUBE RISER STOOL. AT PANEL JOINT, SEE DETAIL FOR REF.
  - 6" x 14" L.G. X 10 GA. SHIT. METAL HOLD DN. PLATE W/ (6) #10 X 1 1/2" L.G. WOOD SCREWS TO RIM JOIST, HELDED TO STL. TUBE RISER STOOL. AT PANEL JOINT, SEE DETAIL FOR REF.
  - CLASS "A" MINERAL SURFACE BUILT-UP ROOFING SYSTEM BY "65" ROOFING PRODUCTS OR ARCHITECT APPROVED EQUAL TO CONFORM TO "65" SPECIFICATION NO. A-4-H-3 (TYP)
  - 4"x3"x26 GA. GALV. S.M. DOWNSPOUT WITH STRAPS # 5" O/C (MAX) SECURED TO BLDG. W/ #10 S.M.S.
  - CONT. 24GA. GALV. GUTTER
  - 24 GA. CONT. GALV. FASCIA
  - 2-4-1 PLYWOOD FLOOR DECK - (D.F.) PSI-83 T&G 1 1/8" THK. WITH #10 X 1 3/4" L.G. F.H.S.T. SCREWS # 6" O/C ON EDGES & 12" O/C IN FIELD.
  - 5/8" THK. EXTERIOR GRADE PLYWOOD SIDING (1-1/2) PLY OVER 15# BLDG. PAPER OR 4 MIL VISOSEEN WITH 8d BOX NAILS @ 6" O/C ON EDGES AND 12" O/C IN FIELD (TYP) PAINT FINISH TO BE SELECTED BY SCHOOL DIST. (FOR METAL STUDS) USE #8 F.H.S.T. SCREWS # 6" O/C ALL EDGES AND 12" O/C IN FIELD (TYP)



THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.

**NOTE:**  
SEE REVISED R.F. FRAMING PLAN ON SUT. EC-1CN

STRUCTURAL ENGINEER  
ARCHITECT

**PROFILE STRUCTURES, INC.**  
CONTRACTOR'S LICENSE # 246071 B1  
13028 CARONENA RD. SANTA FE SPRING, CA. 90670  
DATE: 06/15/16

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APPROX: 102932  
DATE: NOV 17 1999

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. # PC-295  
DATE: 2 17 20

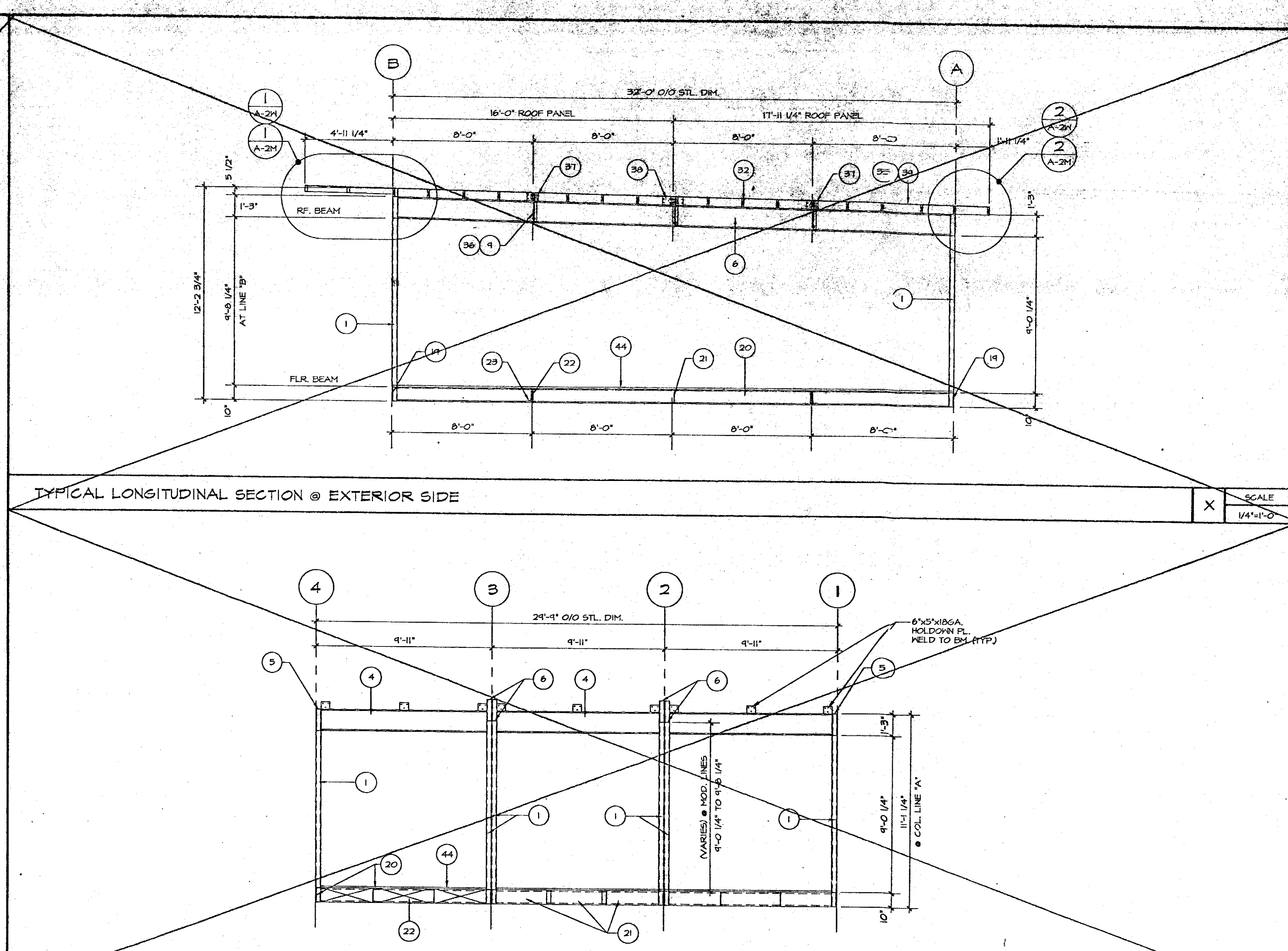
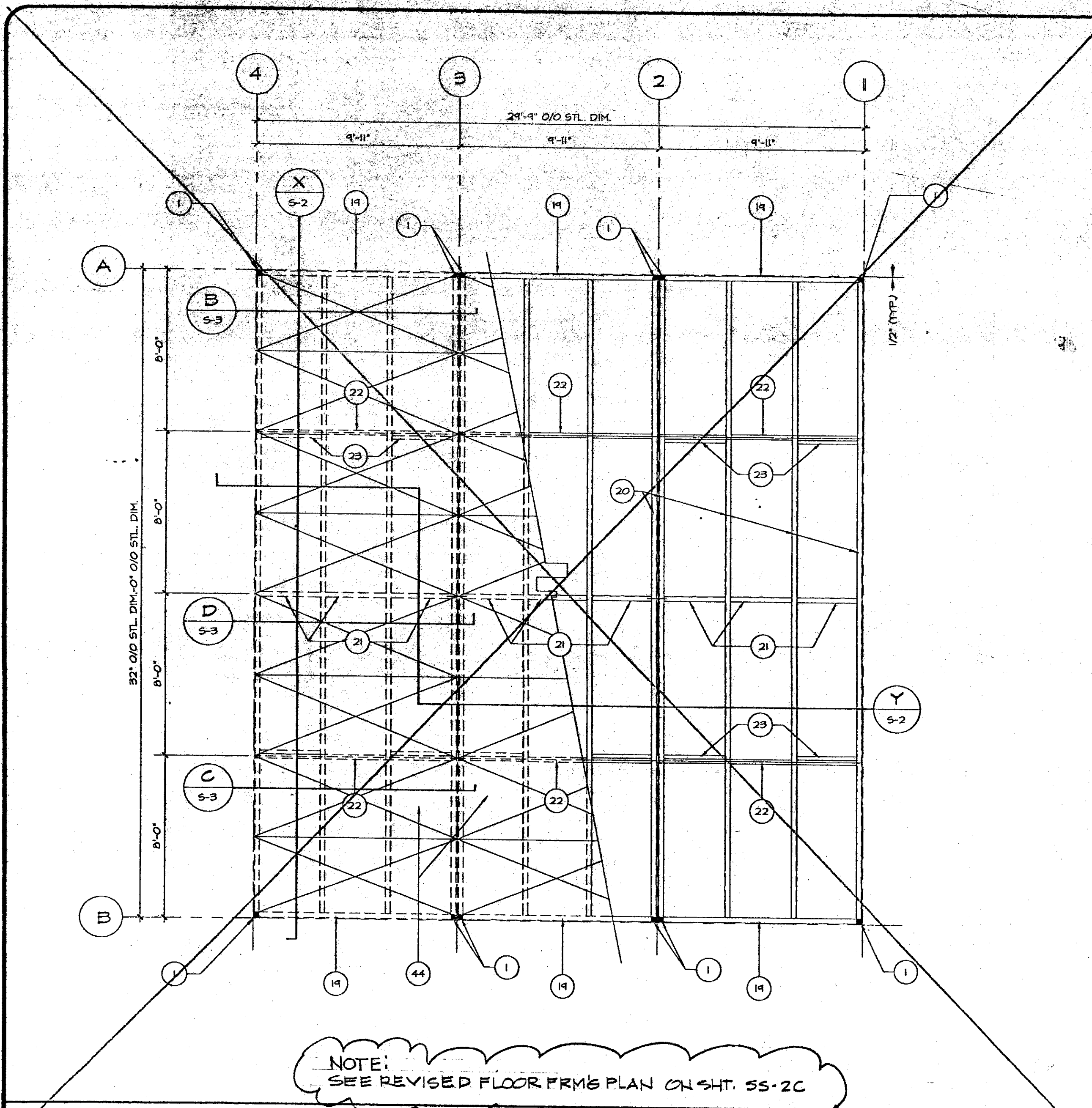
NOT FOR CONSTRUCTION

PROFESSIONAL SEAL  
LICENSE EXPIRES 9-30-2020

ROOF FRAMING PLAN - LVAC SUPPORT DETL.  
S-IADD

JAN 18 2000



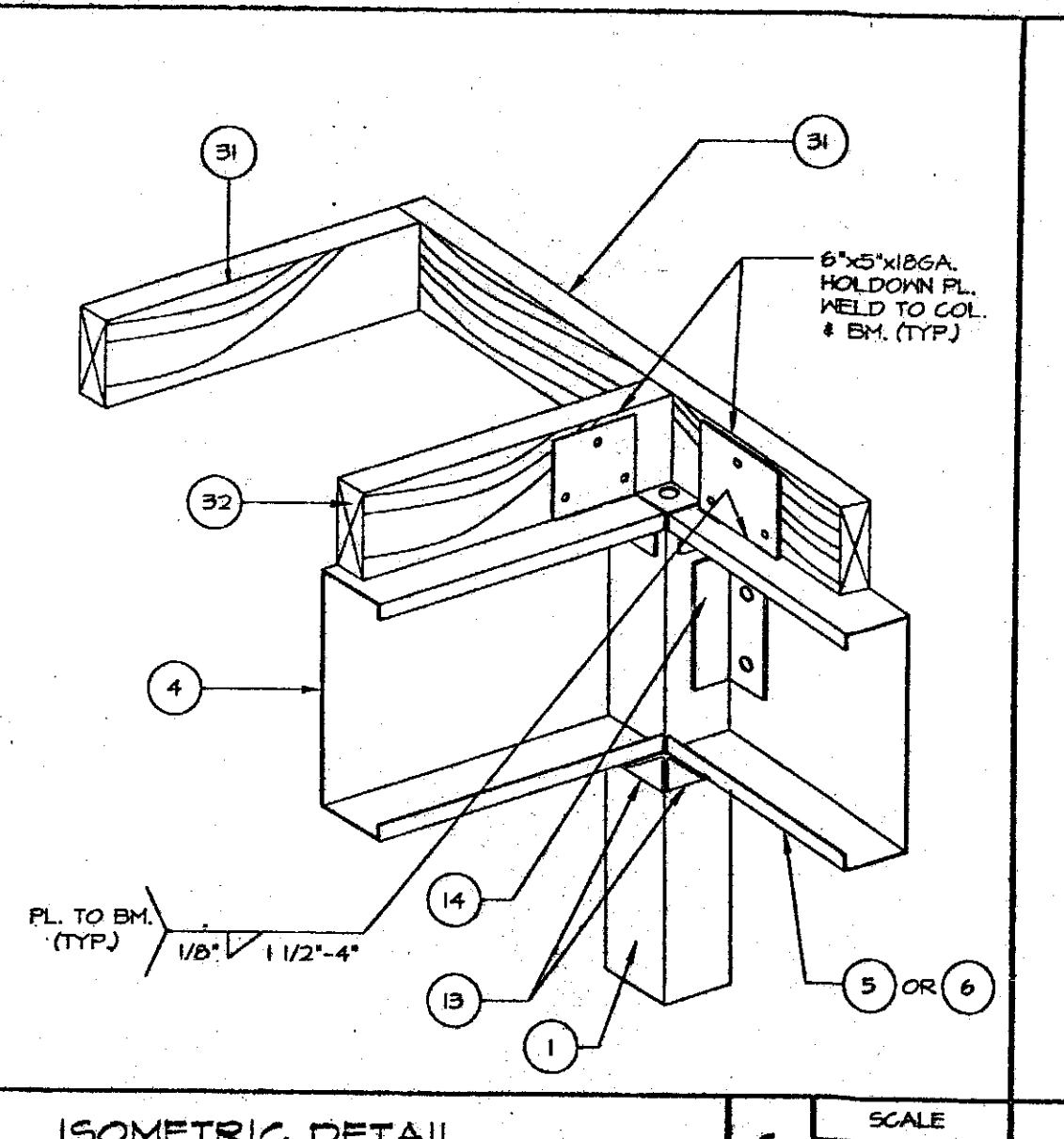
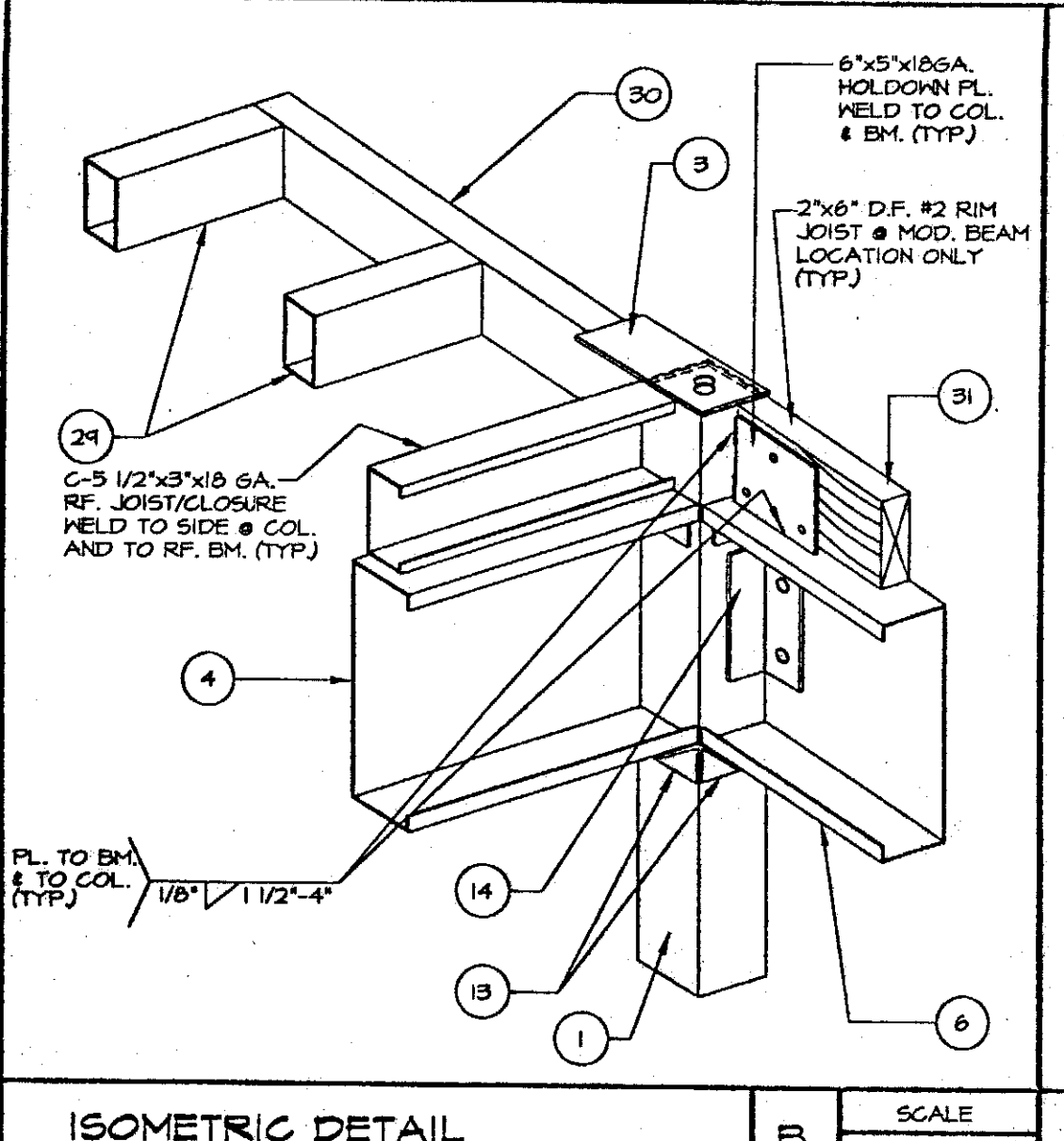
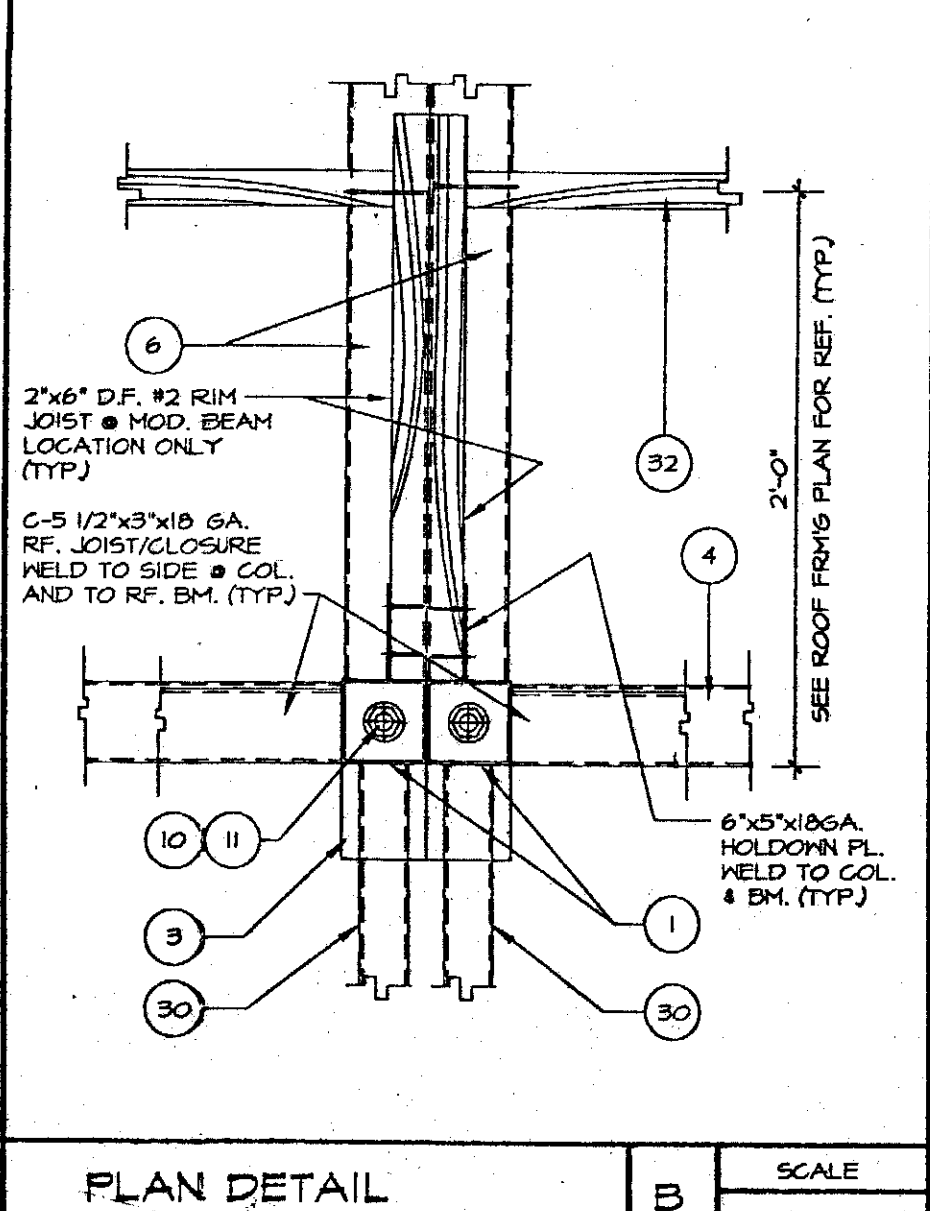
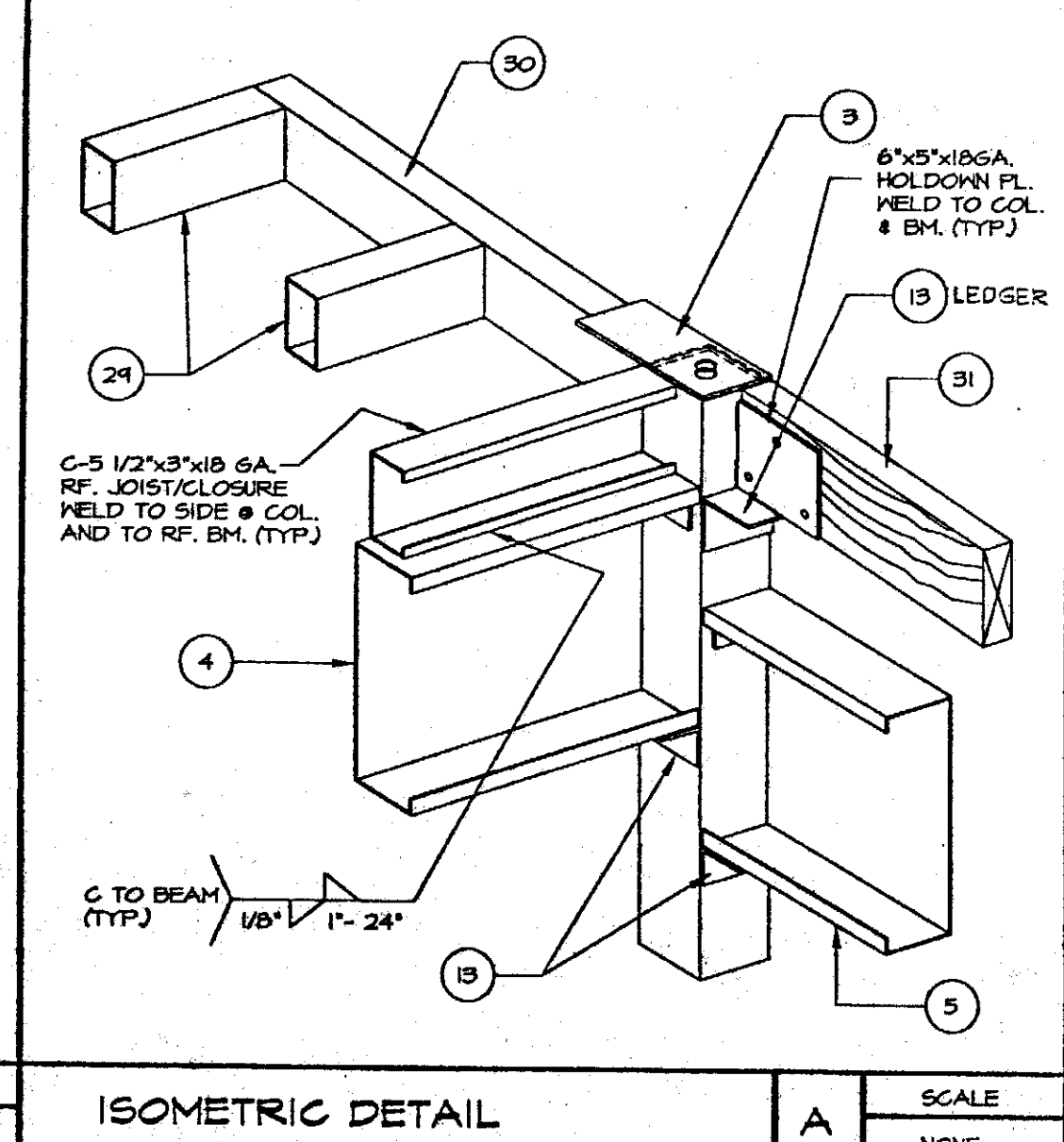
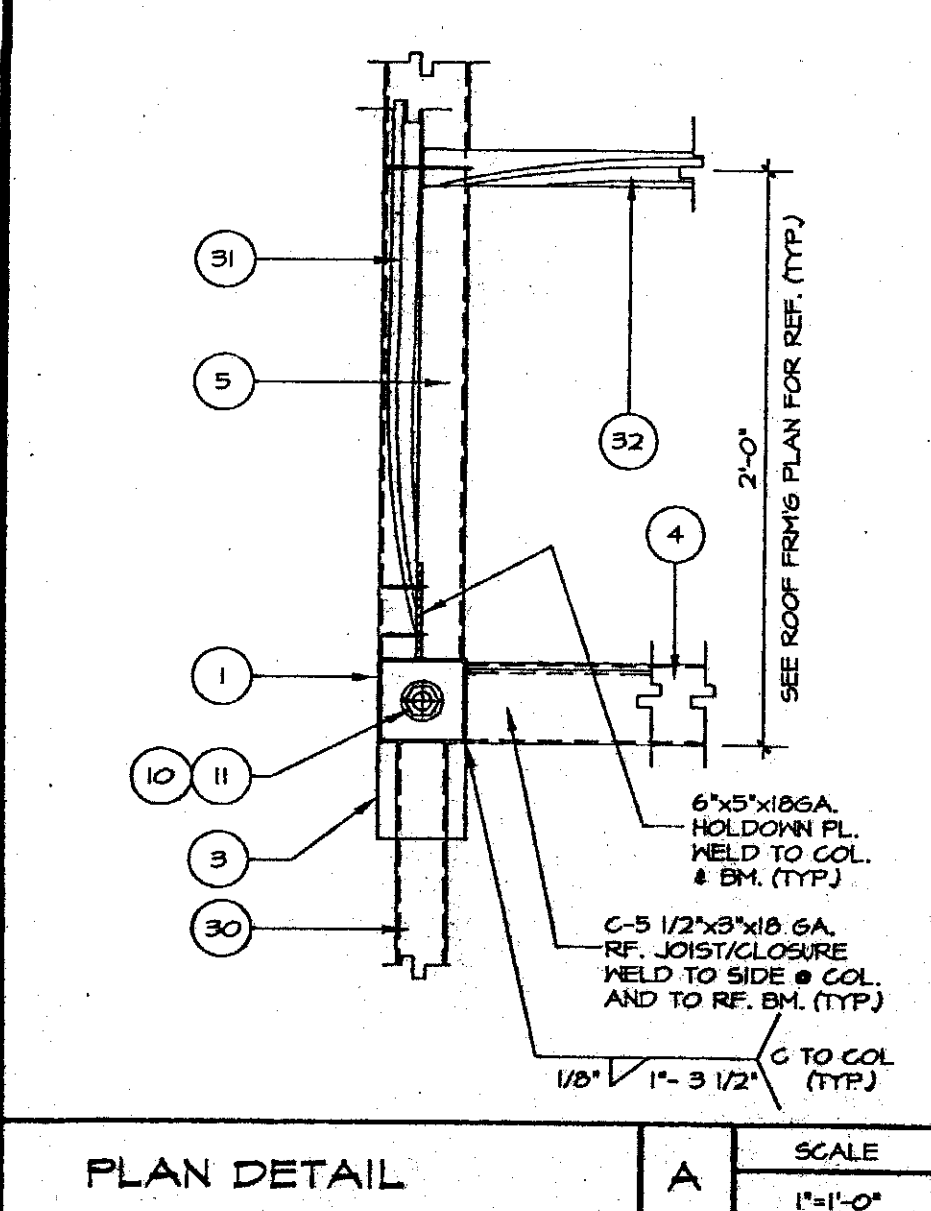


**REFERENCE NOTES : (AS APPLICABLE)**

1. TS 3 1/2"x3 1/2"x11 GA. COLUMN
2. TS 3 1/2"x3 1/2"x11 GA. INTERMEDIATE COL.
3. STL. PL. 1/4" x 3 1/2" x 0'-6" 1/2" OUTRIGGER/COLUMN SUPPORT
4. C 15"x3 3/8"x1/2 GA. END ROOF BEAM
5. C 15"x3 3/8"x1/2 GA. SIDE ROOF BEAM
6. C 15"x3 3/8"x1/2 GA. SLOPE # MOD JOINT (TYP)
7. C 10"x3 1/2"x10 GA. SLOPE # MOD JOINT (TYP)
8. C 10"x3 1/2"x10 GA. ROOF BEAM
9. 3/8" THK STIFFENER PLATE
10. 1/4" THK COLUMN CAP PLATE (TOP & BOT)
11. 5/4"x8 NUT, TACKWELDED INSIDE CAP PLATE
12. L 2 1/2"x2 1/2"x3/16"x0'-2 3/4" L.G. CLIP
13. L 2 1/2"x2 1/2"x3/16"x0'-3 1/2" L.G. CLIP
14. L 2 1/2"x2 1/2"x3/16"x0'-8" L.G. CLIP
15. 9/8"x8 HOLES W/ 1/2"x8 NUT TACKWELDED INSIDE COL.
16. 2 1/2"x2 1/2"x3/16" STEEL PLATE
17. 1/2" MACHINE BOLT (TYP)
18. 5/8" MACHINE BOLT (TYP)
19. C 10"x3 1/2"x14 GA. FLOOR END BEAM (TYP)
20. C 10"x3 1/2"x14 GA. FLOOR SIDE BEAM JOIST (TYP)
21. C 10"x3 1/2"x14 GA. BLOCKING
22. 1 1/4" WIDE x 30 GA. BRIDGING STRAPS
23. L 2"x2"x1/4 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
24. L 5"x3"x1/4 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
25. TS 3 1/2"x3 1/2"x11 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
26. TS 3 1/2"x3 1/2"x11 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
27. TS 2"x4"x1/4 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
28. TS 3 1/2"x3 1/2"x11 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
29. TS 4"x2"x1/4 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
30. TS 4" x 2" x 1/4 GA. # EXT. SIDES OF HOLES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
31. 2"x6" D.F. #2 RIM JOIST (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
32. 2"x6" D.F. #2 RIM JOIST (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
33. (2) 2"x6" D.F. #2 (AT ROOF PANEL JOINT) SPIKE TOGETHER W/ 1/4" GALV. BOX NAILS (2) ROWS STAGGED (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
34. L2-26 SIMPSON JOIST HANGERS (TYP)
35. 1/2" THICK PLYWOOD SHEATHING (TYP) STRICTLY EXTERIOR GRADE W/ 24 GA. GALV. BOX NAILS # 6" O/C ON ALL EDGES AND # 12" O/C IN FIELD (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
36. L-2"x2"x1/4 GA. BRAGINS (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
37. 6" x 8" L.G. x 18 GA. SHT. METAL HOLD DN. PLATE W/ (8) HOLES 1/2" L.G. HOOD SCREWS TO RIM JOIST, HELDED TO STL. TUBE RISER STOOL, AT PANEL JOINT, SEE DETAIL FOR REF. (TYP)
38. 6" x 14" L.G. x 18 GA. SHT. METAL HOLD DN. PLATE W/ (8) HOLES 1/2" L.G. HOOD SCREWS TO RIM JOIST, HELDED TO STL. TUBE RISER STOOL, AT PANEL JOINT, SEE DETAIL FOR REF. (TYP)
39. CLASS "A" MINERAL SURFACE BUILT-UP ROOFING SYSTEM BY 95' ROOFING PRODUCTS OR ARCHITECT APPROVED EQUAL TO CONFORM TO 95' SPECIFICATION NO. A-4-H-3 (TYP) U.L. # R-10296 (1)
40. 4"x2"x6 GA. GALV. S.M. DOWNSPOUT WITH STRAPS # 2"x2" O/C (MAX) SECURED TO BLDG. W/ #10 S.M.S.
41. CONT. 24GA. GALV. GUTTER
42. 4"x2"x6 GA. GALV. S.M. OVERFLOW
43. 24 GA. CONT. GALV. FASCIA
44. 2-1/4" PLYWOOD FLOOR DECK - (DF) PS1-83 T&G 1/8" THK WITH #2 x 1 3/4" L.G. FAST. SCREWS # 6" O/C ON EDGES & 12" O/C IN FIELD.
45. 5/8" THK EXTERIOR GRADE PLYWOOD SIDING (T11) PLAIN OVER 1/4" BLDG. PAPER OR 4 MIL VICKEREN WITH #2 BOX NAILS # 6" O/C ON EDGES AND 12" O/C IN FIELD (TYP) PAINT FINISH TO BE SELECTED BY SCHOOL DIST. (FOR METAL STUDS) USE #8 F.H.S.T. SCREWS # 6" O/C ALL EDGES AND 12" O/C IN FIELD (TYP)
46. 1/8" THK PORTLAND CEMENT PLASTER FINISH OVER PAPERBACK METAL LATH OVER 5/8" THK PLYWOOD SHEATHING.
47. 1/2" THK. HIRVEX OVER 1/2" THK. GYPSUM BOARD. SEE FIN. SCHEDULE FOR REF. (TYP)
48. 5/8" THK. GYPSUM BOARD (PAINT FINISH)
49. 1/2" THK. DURASAN INTERIOR WALL FINISH
50. R-11 F.G. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50.
51. R-11 F.G. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50, SUPPORTED W/ 1"x2" PLASTIC NETTING SECURED TO 2TH OF R.F. JOIST W/ 1/2" STAPPLES (TYP)
52. CEILING BOARD, MINERAL FIBER LAY-IN PANEL 24"x48"x1/2" THK. CORTEGA 764 BY ARMSTRONG NON-DIRECTIONAL (CLASS A / F.S. 0-28)
53. MAIN RUNNER - ARMSTRONG # 1300 INTER. DUTY
54. CROSS RUNNER - ARMSTRONG # 1348 INTER. DUTY
55. WALL ANGLE - ARMSTRONG # 1820D NON-CLASSIFIED
56. ANGLE HANGER - 3"x8"x24 GA. # 24" O/C - POP RIVETED TO ROOF BEAM & TO WALL ANGLE
57. CONT. WALL ANGLE SECURED TO ANGLE HANGERS WITH 1/8" POP RIVET. (TYP)
58. 6"-0"x4"-0" (2X) NAIL ON ALUM. HENDON (OPTIONAL)
59. 3"-0"x6"-0"x1/4" H.M. DOOR ON METAL FRAME
60. WEATHERSTRIP - 3/4" AN - PERMO
61. THRESHOLD - 271A - PERMO
62. DOOR BOTTOM - 266A - PERMO
- 63.
- 64.
- 65.
66. SEE WALL FRAMING ELEVATIONS FOR REFERENCE
- 67.
- 68.
- 69.
70. PLASTIC MOLDING AROUND WINDOW OPENINGS.
71. SHEET METAL EDGE TRIM.
72. CONT. 22 GA. X 1" WIDE SHT. METAL FLASHINGS (TYP) AROUND BUILDING
73. PROVIDE CONT. BEAD OF CAULKING
74. 5/8"x9 CONCRETE ANCHOR "RANBOLT" OR EQ.
75. 1/4" THK. TIE DOWN STEEL PLATE
76. GALV. WIRE SCREEN WITH 1/4" SQUARE HOLES ON 26 GA. SHEET METAL FRAME RIVETED TO 24 GA. SHEET METAL BRACKET ON TOP & SECURED TO FLOOR BEAM & CONC. FOOTING WITH #5 x 1 1/4" L.G. S.M.S. WITH EXPANSION SHIELD # 24" O/C.
77. UNDERLOOR VENT (SEE FOUNDATION PLAN FOR REF.)
78. RAMP AND LANDINGS (OPTIONAL)
79. EXISTING GRADE OR FINISH GRADE
80. CONCRETE FOUNDATION
81. BUILDING PAD / DIRT PAD.
82. MOISTURE BARRIER - TAR IMPREGNATED BOARD OR EQUAL (BY OTHERS)
83. APPROVED COMPACTED FILL
84. 4" THK. CONCRETE SLAB WITH 6"x6" #4@4" REIN. (BY OTHERS)
85. 4" HIGH VINYL TORPET BASE (TYP)
86. CHALKBOARD-(2)8'x4' SECTIONS WITH CHALKTRAY MOLDING & MAP RAIL WITH HOOK & FLAG HOLDER (2'-6" A.F.F.)

FLOOR FRAMING PLAN

TYPICAL CROSS SECTION



PLAN DETAIL A

ISOMETRIC DETAIL A

PLAN DETAIL B

ISOMETRIC DETAIL B

ISOMETRIC DETAIL C

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.

STRUCTURAL ENGINEER  
  
 LICENSE EXPIRES 6-30-2008

ARCHITECT  
 PROFILE STRUCTURES, INC.  
 CONTRACTOR'S LICENSE # 248071 01  
 (310) 921-2551  
 FAX (310) 921-2263  
 13926 CARMENITA RD.  
 SANTA FE SPRINGS CA 90670

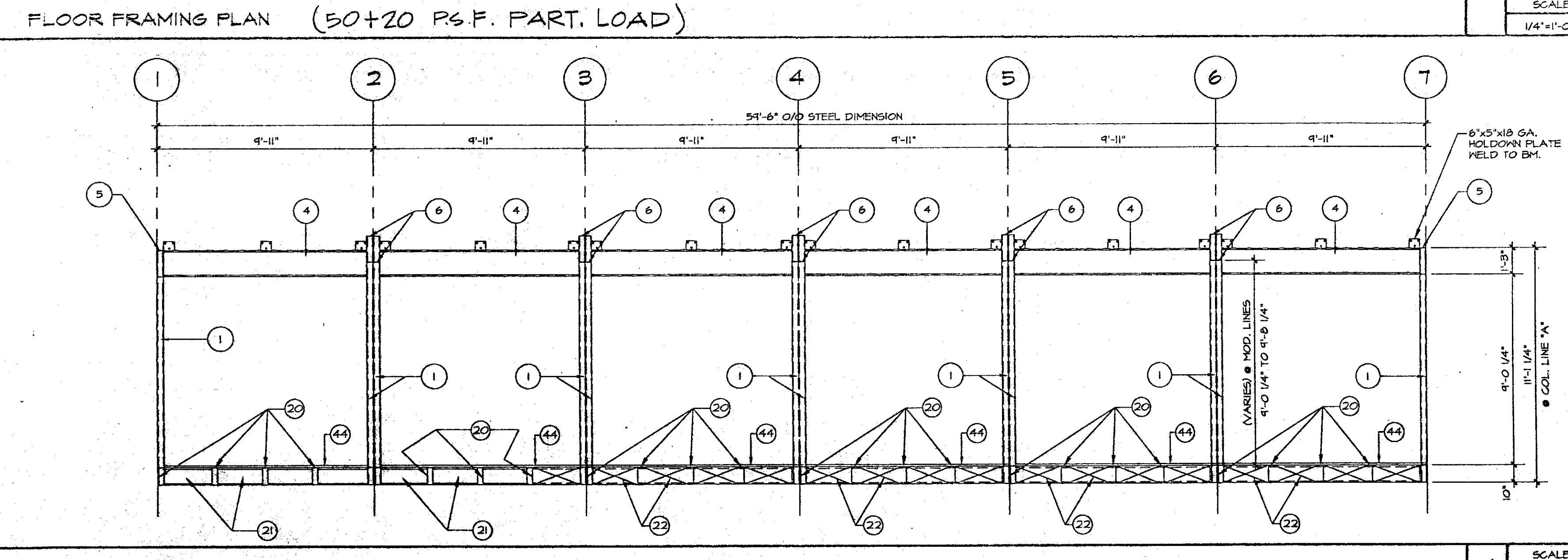
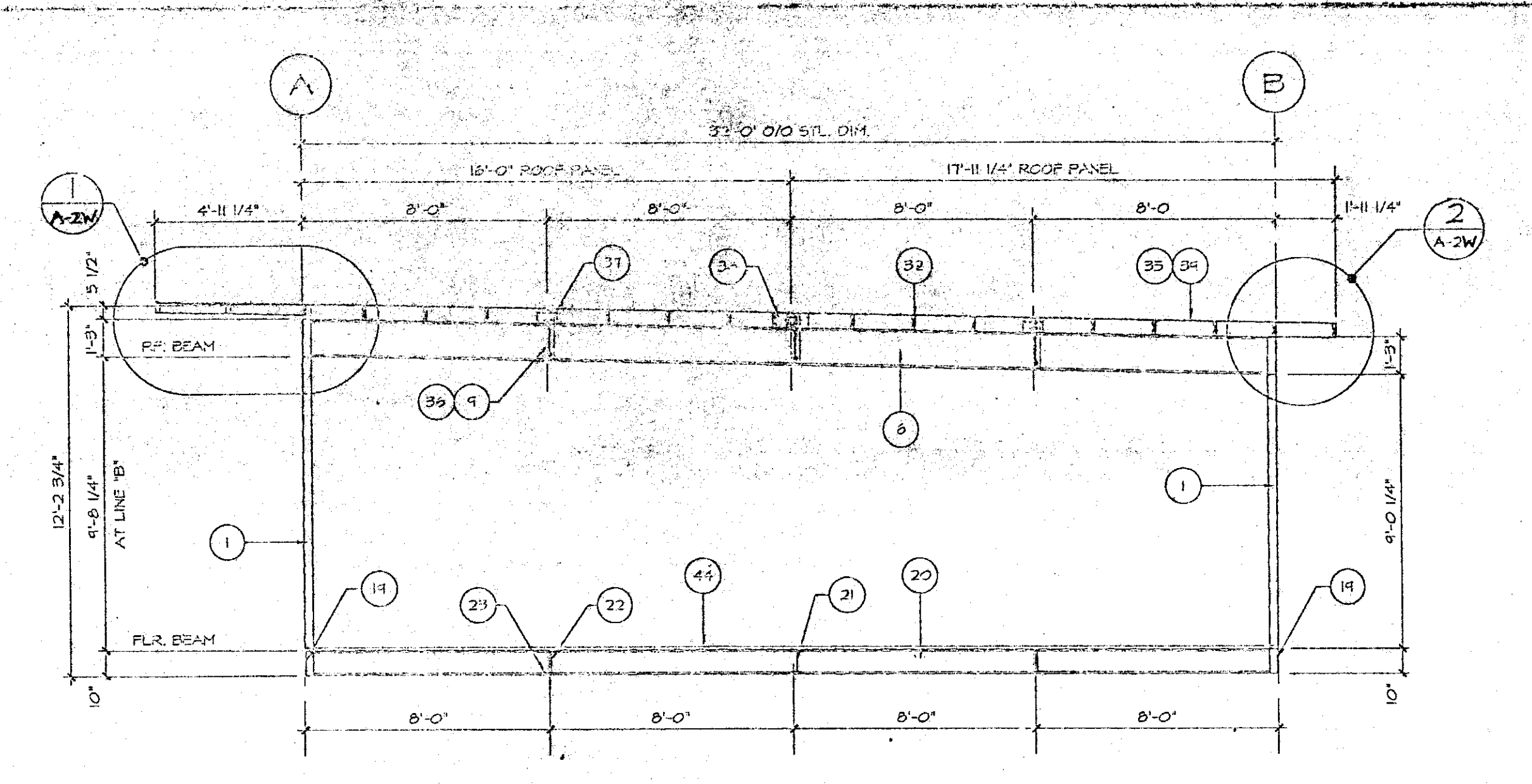
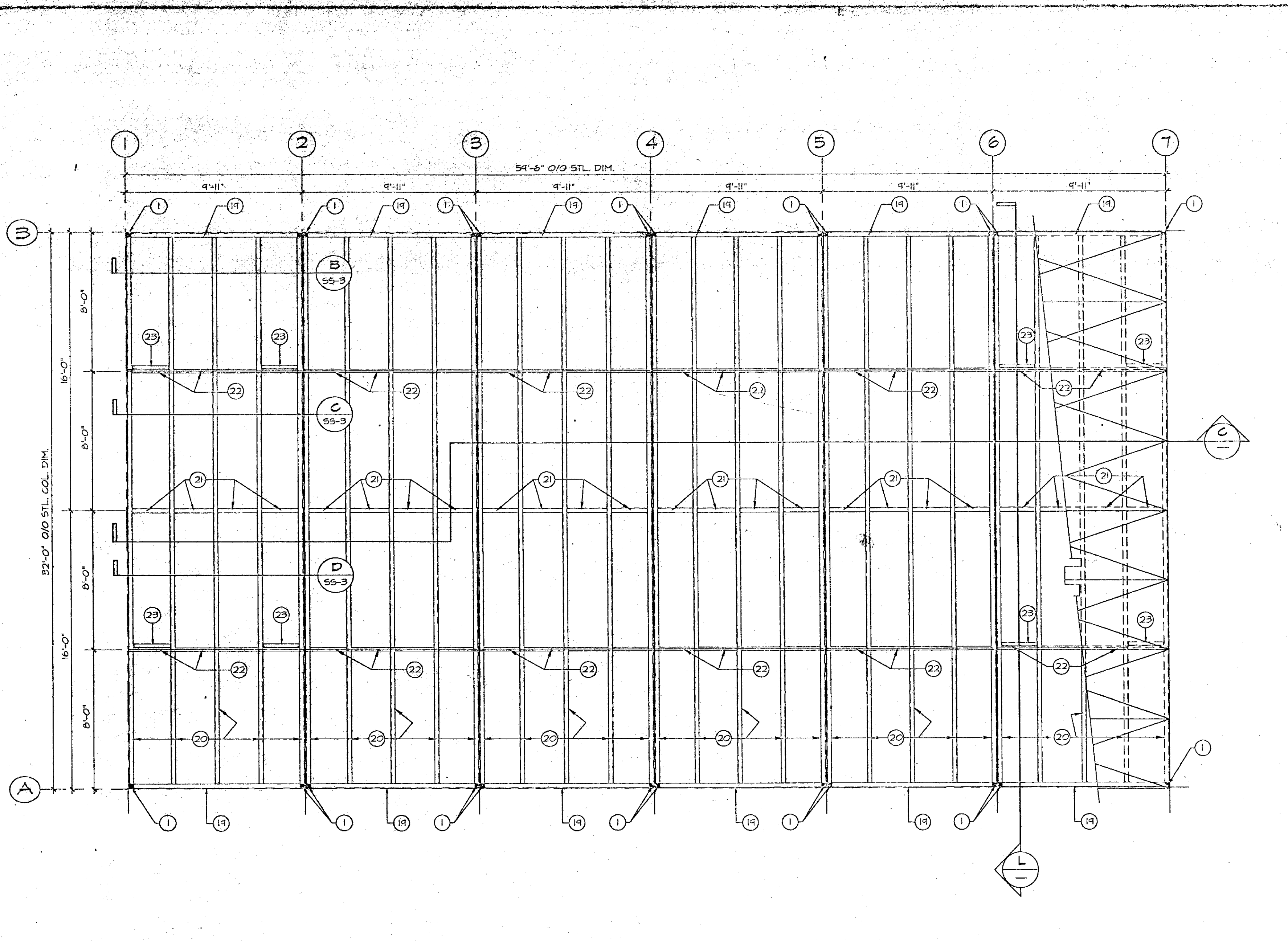
60' x 32' CLASSROOM BUILDING  
 RIGID FRAME - BUILT UP ROOF - WOOD/METAL STUDS  
 SCALE NOTED  
 DATE 08/16/96  
 APPROVED BY  
 DRAWN PS/NG/LM  
 REVISED 11/01/99  
 JOB NO. M99-60  
 DRAWING NUMBER 5-2

DIVISION OF THE STATE ARCHITECT  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 OFFICE OF REGULATION SERVICES  
 APPL. # PC-295  
 AC. FLS. SS. 4/18  
 DATE OCT 03 98

NOT FOR CONSTRUCTION

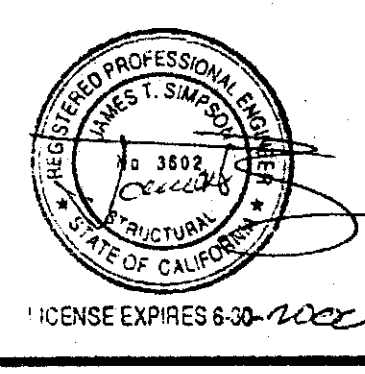
JAN 18 2000





- REFERENCE NOTES: (AS APPLICABLE)
- TS 3 1/2"x3 1/2"x11 GA. COLUMN
  - TS 3 1/2"x3 1/2"x11 GA. INTERMEDIATE COL.
  - STL. PL. 1/4" x 3 1/2" x 0'-8 1/2" OUTRIGGER COLUMN SUPPORT
  - C 15"x3 3/8"x12 GA. END ROOF BEAM
  - C 15"x3 3/8"x12 GA. SIDE ROOF BEAM
  - C 15"x3 3/8"x12 GA. SLOPE @ MOD JOINT (TYP)
  - C 10"x3 1/4" GA. ROOF BEAM
  - 3/8" THK STIFFENER PLATE
  - 1/4" THK COLUMN CAP PLATE (TOP & BOT)
  - 3/4" NUT, TACK WELD INSIDE CAP PLATE
  - L 2 1/2"x2 1/2"x3/8"x0'-3 3/4" LG. CLIP
  - L 2 1/2"x2 1/2"x3/8"x0'-5 LG. CLIP
  - 4/8"x9 HOLES W/ 1/2" NUT TACK WELD INSIDE COL.
  - 2 1/2"x2 1/2"x3/8" STEEL PLATE
  - 1/2" MACHINE BOLT (TYP)
  - 5/8" MACHINE BOLT (TYP)
  - C 10"x3 1/4" GA. FLOOR END BEAM (TYP)
  - C 10"x3 1/4" GA. FLOOR SIDE BEAM (TYP)
  - C 10"x3 1/4" GA. BLOCKING
  - 1 1/4" WIDE x 20 GA. BRIDGING STRIPS
  - L 2"x2"x1/4" GA. @ EXT. SIDES OF MODULES & BRIDGING STRIPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
  - L 5"x3"x1/4" GA. @ 0'-6" LG.
  - TS 3 1/2"x3 1/2"x10 GA. @ 4" LG. LEDGER, SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
  - TS 3 1/2"x3 1/2"x10 GA. @ 4" LG. LEDGER, SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
  - TS 2"x4"x10 GA. @ 6" LG. LEDGER/STOOL WELDED TO RF. BM. & HOLD DN. PLATE, SEE DETAIL FOR REF.
  - TS 3 1/2"x3 1/2"x11 GA. STOOL WELDED TO RF. BM. & LEDGER TUBE, CUT AS REQ'D. (SEE DET. FOR REF.)
  - TS 4"x2"x6 GA. ROOF JOIST WELDED @ EACH END TO TS 4"x2"x6 GA. OUTRIGGER (TYP)
  - TS 4" x 2" x 11 GA. OUTRIGGER WELDED TO TS 3 1/2"x3 1/2"x11 GA. COL. (SEE REF. FRAMING PLAN FOR REF. (TYP))
  - 2"x6" D.F. RIM JOIST (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
  - 2"x6" D.F. #2 ROOF JOIST @ 24" O/C W/ (B) 16d NAILS @ EA. END (RIM JOIST TO ROOF JOIST) (TYP) W/ LB-26 SIMPSON JOIST HANGERS @ EXTERIOR SIDES ONLY (SEE ROOF FRAMING PLAN FOR REF.)
  - (2) 2"x6" D.F. #2 (AT ROOF PANEL JOINT) SPIKE TOGETHER W/ 16d GALV. BOX NAILS (2) ROOF STAGGS (TYP) SEE ROOF FRAMING PLAN FOR REF.
  - LB-26 SIMPSON JOIST HANGERS (TYP)
  - 1/2" THICK PLYWOOD SHEATHING (TYP) STRUCT-1 CDX 5-PLY (EXTERIOR GRADE) W/ 8d GALV. BOX NAILS @ 6" O/C ON ALL EDGES AND @ 12" O/C IN FIELD (TYP) SEE ROOF FRAMING PLAN FOR REF.
  - L-2"x2"x1/4" GA. BRACINGS (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
  - 6" x 8" LG. X 10 GA. SHT. METAL HOLD DN. PLATE W/ (6) 10dX1 1/2" LG. WOOD SCREWS TO RIM JOIST, WELDED TO STL. TUBE RISER STOOL, SEE DETAIL FOR REF. (TYP)
  - 6" x 14" LG. X 10 GA. SHT. METAL HOLD DN. PLATE W/ (6) 10dX1 1/2" LG. WOOD SCREWS TO RIM JOIST, WELDED TO STL. TUBE RISER STOOL, AT PANEL JOINT, SEE DETAIL FOR REF.
  - CLASS "A" MINERAL SURFACE BUILT-UP ROOFING SYSTEM BY "B" ROOFING PRODUCTS OR ARCHITECT APPROVED EQUAL TO CONFORM TO "B" SPECIFICATION NO. A-4-H-3 (TYP)
  - 4"x3"x26 GA. GALV. 5M. DOWNSPOUT WITH STRIPS @ 5'-0" O/C (MAX) SECURED TO BLDG. W/ #10 5M.S.
  - CONT. 24GA. GALV. GUTTER
  - 4"x3"x26 GA. GALV. 5M. OVERFLOW
  - 24 GA. CONT. GALV. FASCIA
  - 2-4-1 PLYWOOD FLOOR DECK - (D.F.) PS-88 T49 1 1/8" THK WITH #10 x 1 3/4" LG. FRST. SCREWS @ 6" O/C ON EDGES & 12" O/C IN FIELD
  - 5/8" THK EXTERIOR GRADE PLYWOOD SIDING (T-11) PLAN OVER SH. BLDG. PAPER OR 4 MIL VEGREEN WITH 8d BOX NAILS @ 6" O/C ON EDGES AND 12" O/C IN FIELD (TYP) PAINT FINISH TO BE SELECTED BY SCHOOL DIST. (FOR METAL STUDS USE #8 FLT. ST. SCREWS @ 6" O/C ALL EDGES AND 12" O/C IN FIELD (TYP))
  - 1 1/2" THK PORTLAND CEMENT PLASTER FINISH OVER PAPERBACK METAL LATH OVER 3/8" THK PLYWOOD SHEATHING.
  - 1/2" THK FIREX OVER 1/2" THK GYPSUM BOARD, SEE RUL. SCHEDULE FOR REF. (TYP)
  - 5/8" THK GYPSUM BOARD (PAINT FINISH)
  - 1/2" THK DURAGAN INTERIOR WALL FINISH.
  - R-11 F.R. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50.
  - R-11 F.R. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50, SUPPORTED W/ 1"x2" PLASTIC NETTING SECURED TO BTH. OF RF. JOIST W/ 1/2" STAPPLES (TYP)
  - CEILING BOARD, MINERAL FIBER LAY-IN PANEL 24"x48"x96" THK, CORTESA 784 BY ARMSTRONGS NON-DIRECTIONAL (CLASS A / F.S. 0-25)
  - MAIN RUNNER - ARMSTRONGS # 1300 INTER. DUTY
  - CROSS RUNNER - ARMSTRONGS # 1349 INTER. DUTY
  - WALL ANGLE - ARMSTRONGS # 10200 NON-CLASSIFIED
  - ANGLE HANGER - 3"x3"x24 GA. @ 24" O/C - POP RIVETED TO ROOF BEAM & TO WALL ANGLE.
  - CONT. WALL ANGLE SECURED TO ANGLE HANGERS WITH 10dX3 POP RIVETS (TYP)
  - 6"-0"x4"-0" (6d) NAIL ON ALUM. HINGED (OPTIONAL)
  - 3"-0"x8"-0" 3/4" HM. DOOR ON METAL FRAME
  - WEATHERSTRIP - 314 AN - PENKO
  - THRESHOLD - 271A - PENKO
  - DOOR BOTTOM - 216A - PENKO
  - PLASTIC MOLDINGS AROUND WINDOW OPENING.
  - SHEET METAL EDGE TRIM.
  - CONT. 22 GA. X 1" WIDE SHT. METAL FLASHING (TYP) AROUND BUILDING
  - PROVIDE CONT. BEAD OF GASKING
  - 5/8" CONCRETE ANCHOR "RAYBOLT" OR EQ.
  - 1/4" THK. TIE DOWN STEEL PLATE
  - GALV. WIRE SCREEN WITH 1/4" SQUARE HOLES ON 30 GA. SHEET METAL FRAME RIVETED TO 24 GA. SHEET METAL BRACKET ON TOP & SCREWED TO FLOOR BEAM & CONC. FOOTING WITH #3 x 1 1/4" LG. SWS, WITH EXPANSION SHIELD @ 24" O/C.
  - UNDERFLOOR VENT (SEE FOUNDATION PLAN FOR REF.)
  - RAMP AND LANDINGS (OPTIONAL)
  - EXISTING GRADE OR FINISH GRADE.
  - CONCRETE FOUNDATION.
  - BUILDING PAD / DIRT PAD.
  - MOISTURE BARRIER - TAR IMPREGNATED BOARD OR EQUAL (BY OTHERS)
  - APPROVED COMPACTED FILL.
  - 4" THK. CONCRETE SLAB WITH 6x6 - W/ #4 REINF. (BY OTHERS)
  - 4" HIGH VINYL TOPSET BASE (TYP)
  - CHALKBOARD (2) 30"x41" SECTIONS WITH CHALKTRAY HOLDING & MAP RAIL WITH HOOK & FLAG HOLDER (2'-6" A.F.F.)

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.



STRUCTURAL ENGINEER  
ARCHITECT

PROFILE STRUCTURES, INC.  
CONTRACTOR'S LICENSE # 240071 B1  
(310) 821-2551  
FAX (310) 821-2503  
13826 CARMENITA RD.  
SANTA FE SPRINGS CA 90670

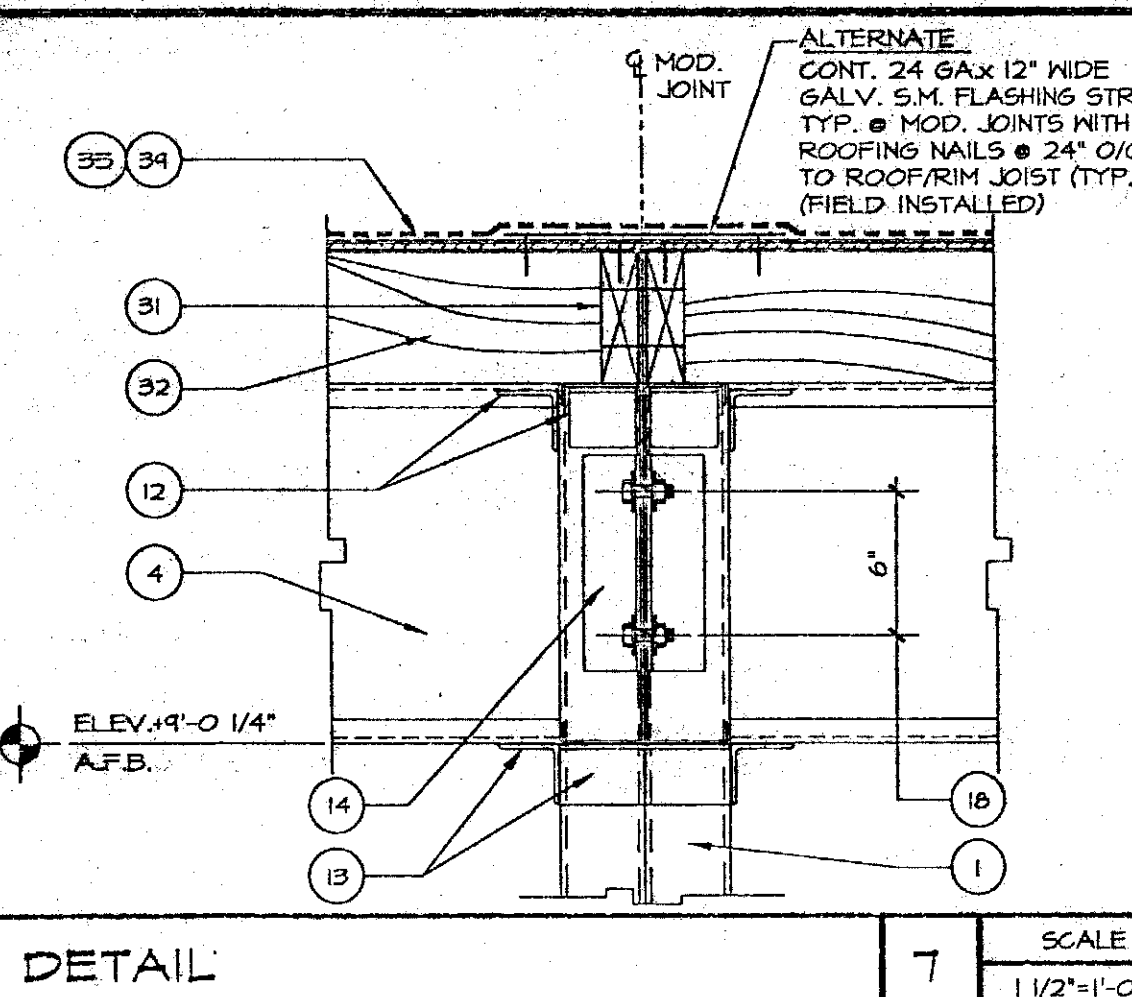
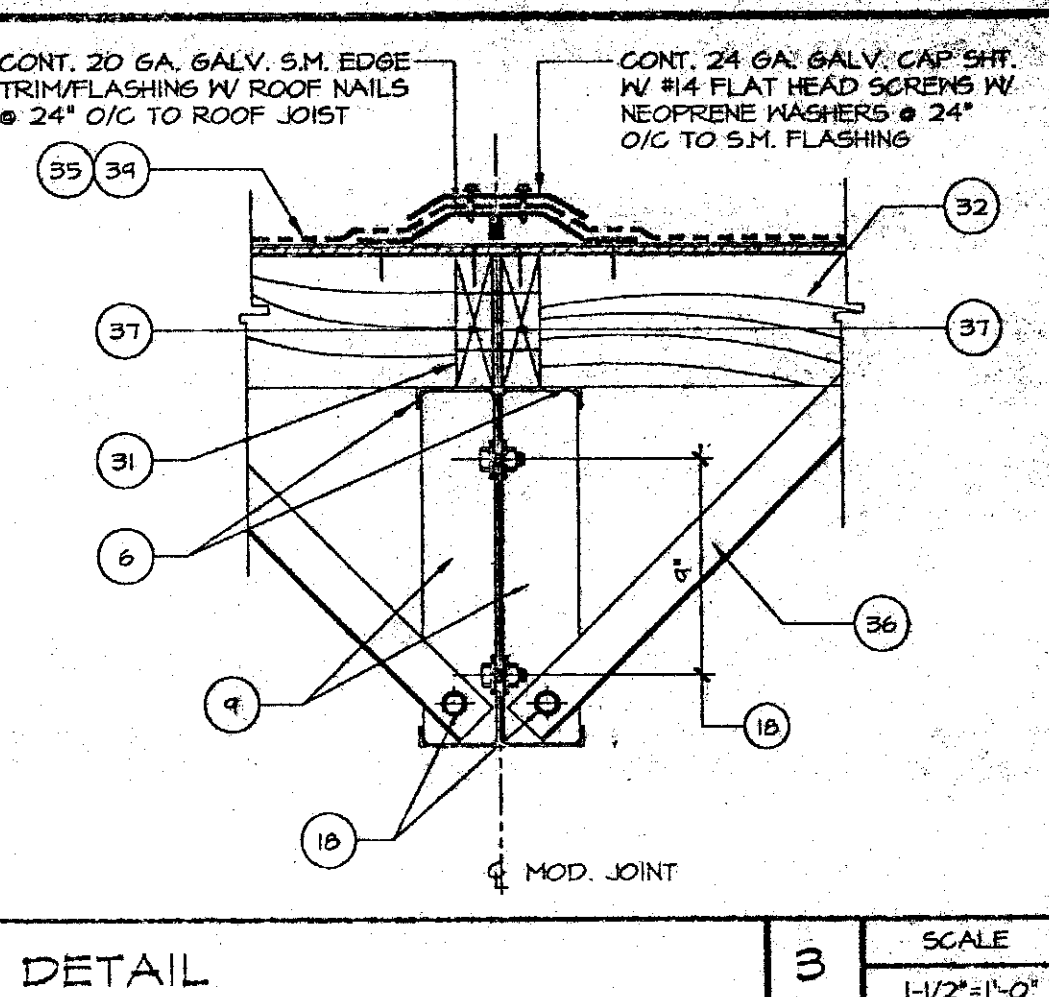
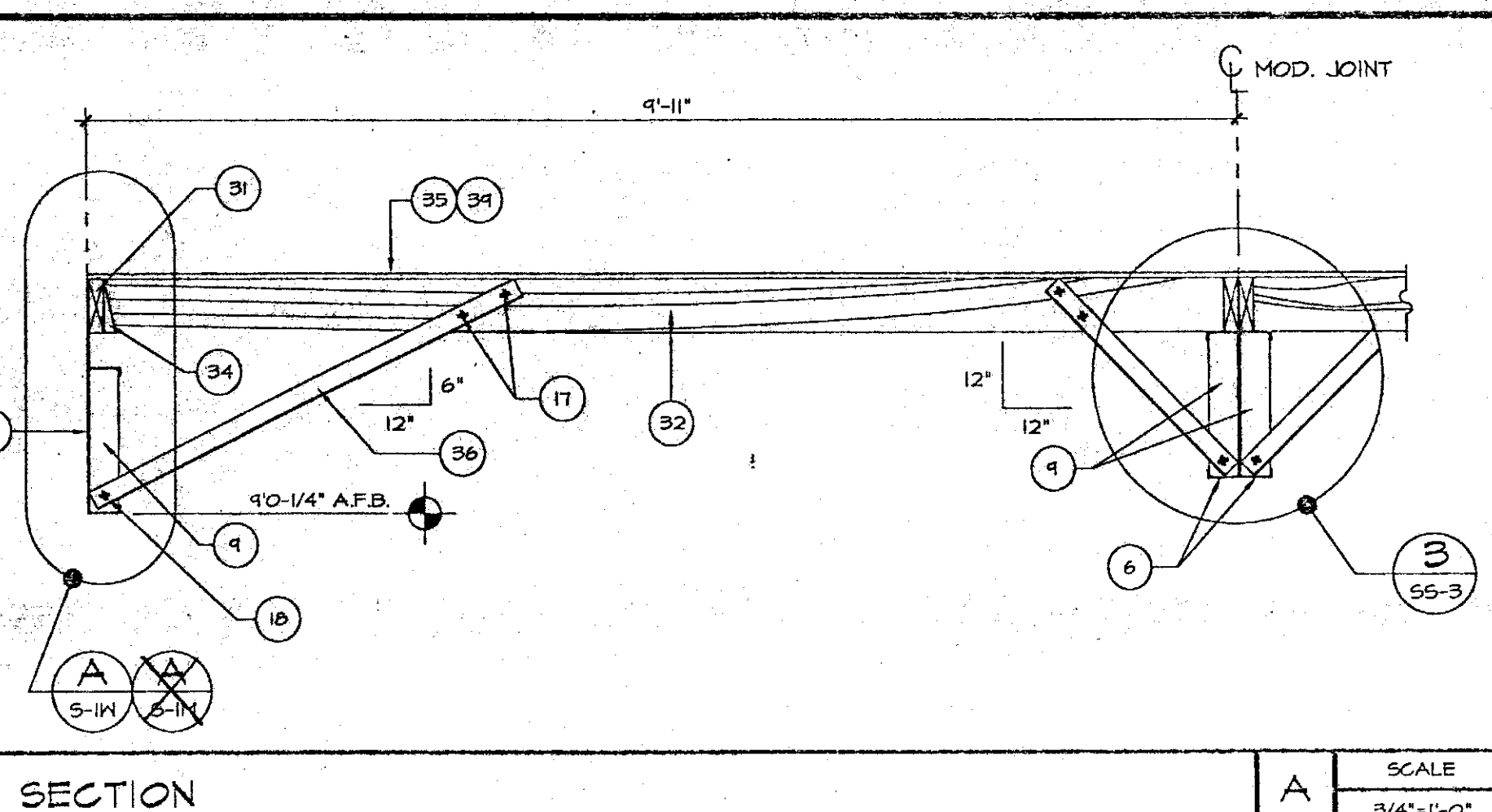
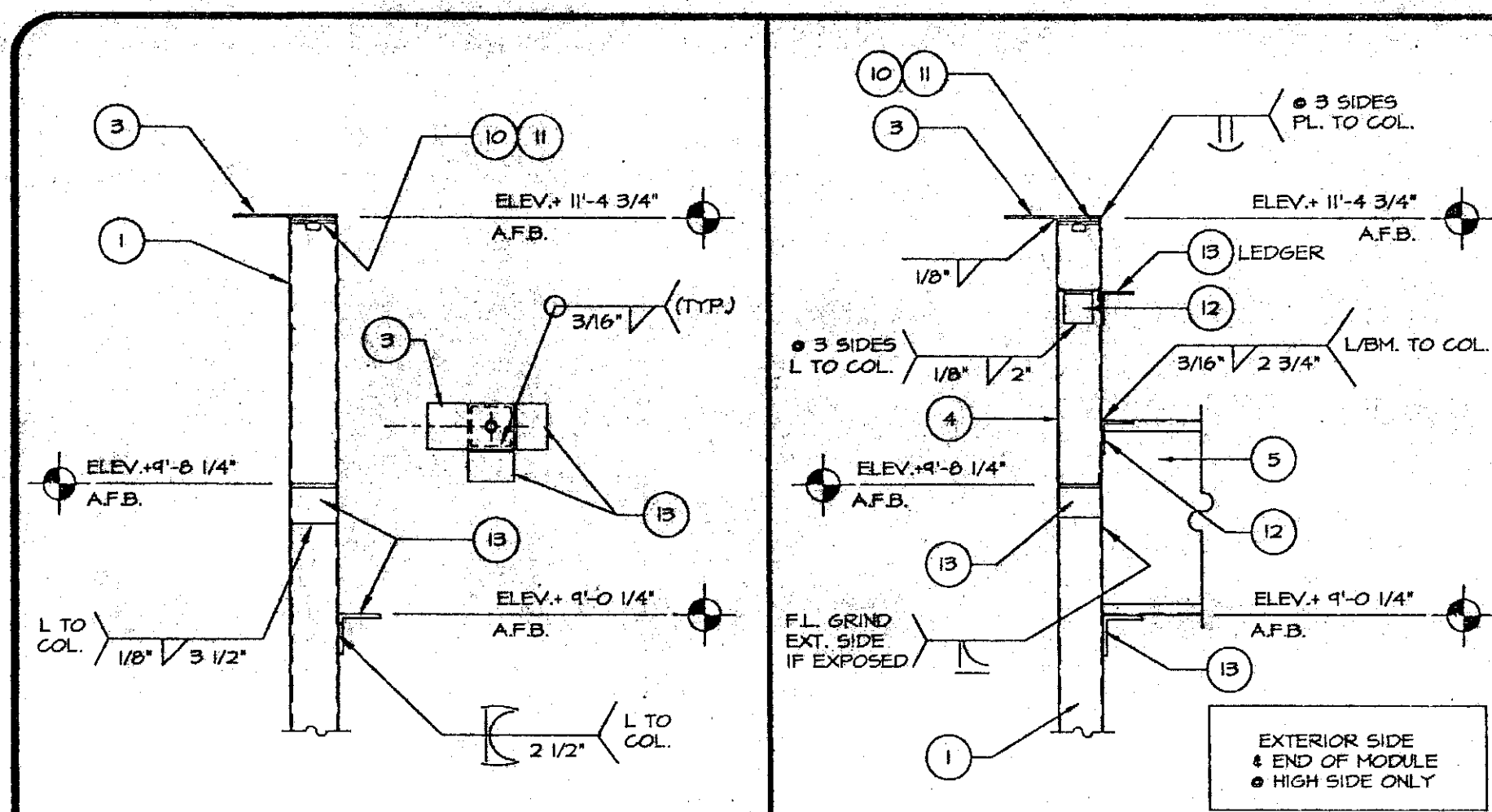
60' x 32' CLASSROOM BUILDING  
RIGID FRAME - BUILT UP ROOF - WOOD/METAL STUDS  
SCALE: NOTED  
DATE: 08/16/96  
APPROVED BY: [Signature]  
REVISED: 11/01/99  
JOB NO.: M99-66  
DRAWING NUMBER: SS-2C

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. \_\_\_\_\_  
AC: \_\_\_\_\_ FLS: \_\_\_\_\_ SS: \_\_\_\_\_  
DATE: \_\_\_\_\_ JAN 18 2000  
REV. # DATE DESCRIPTION BY

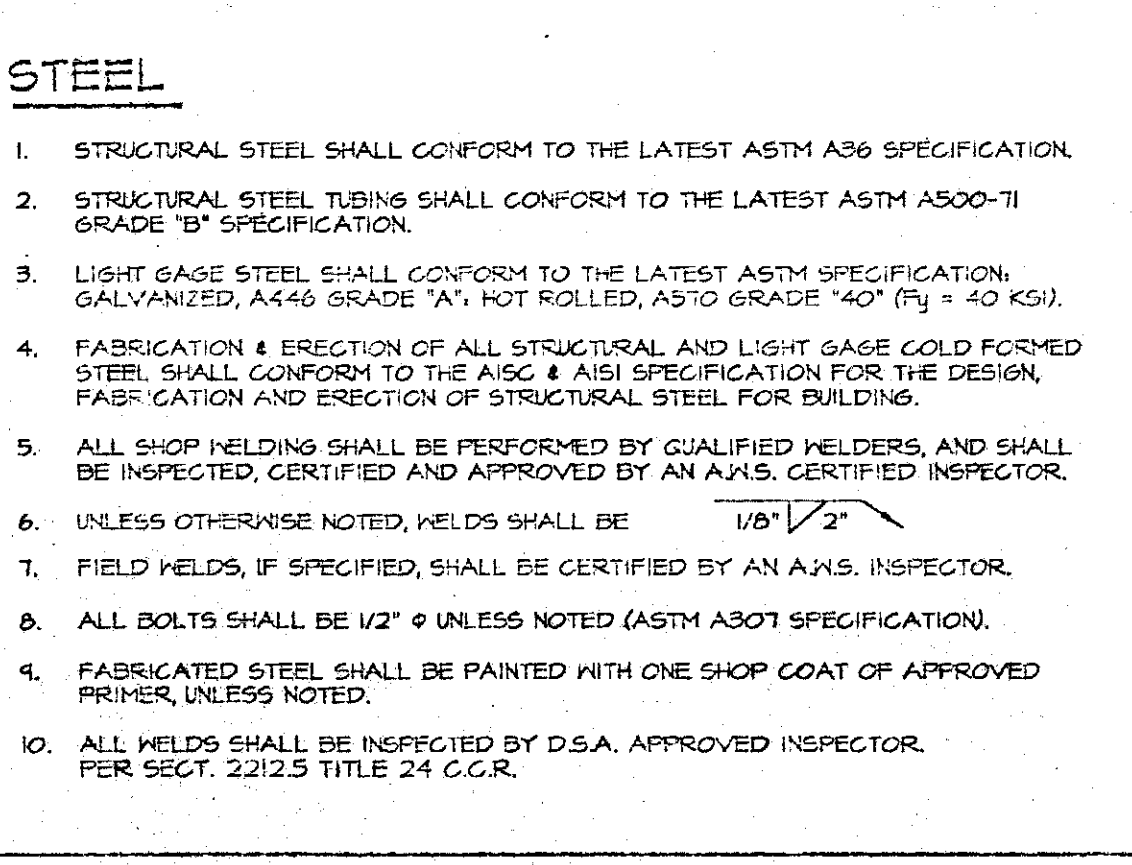
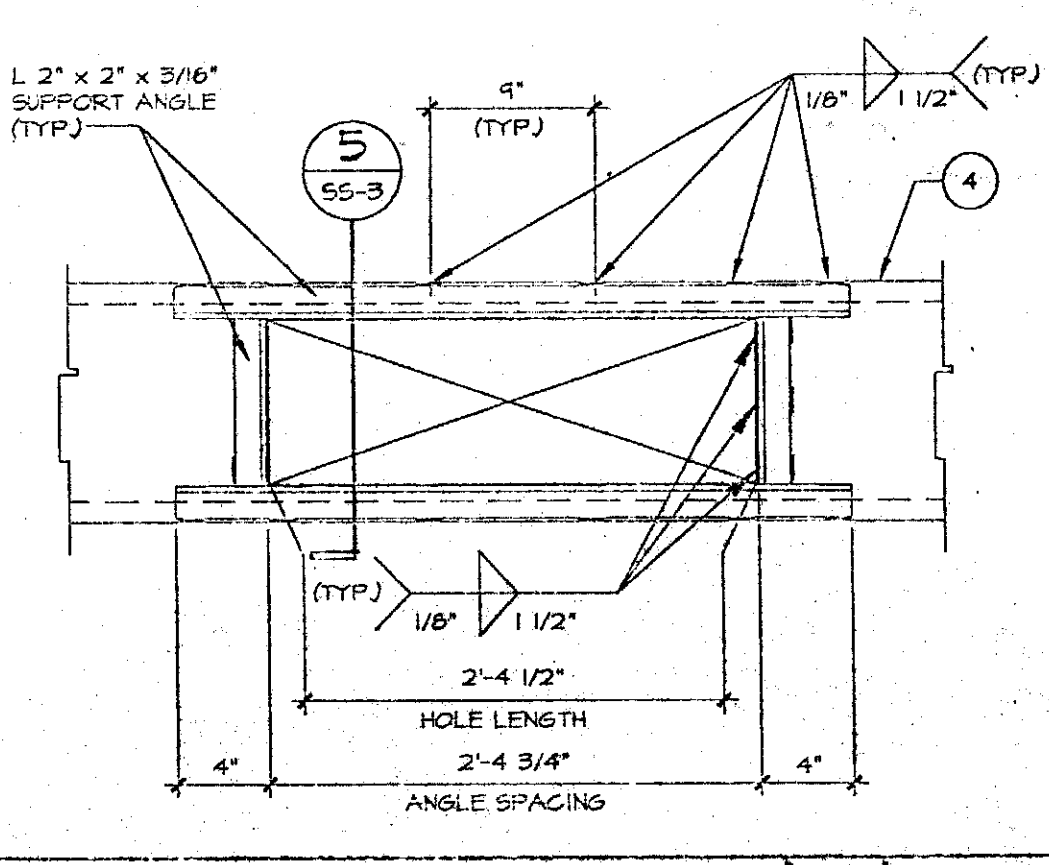
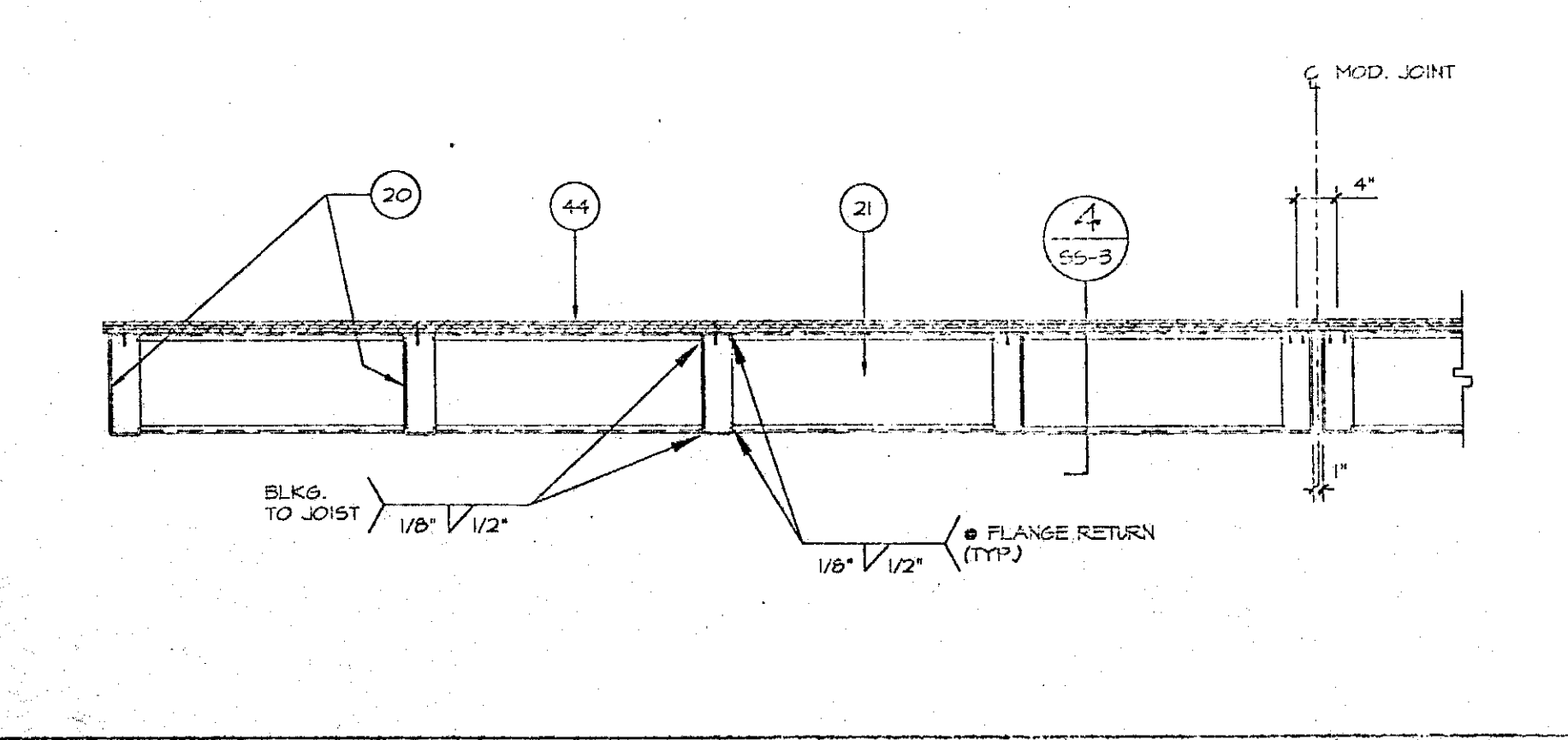
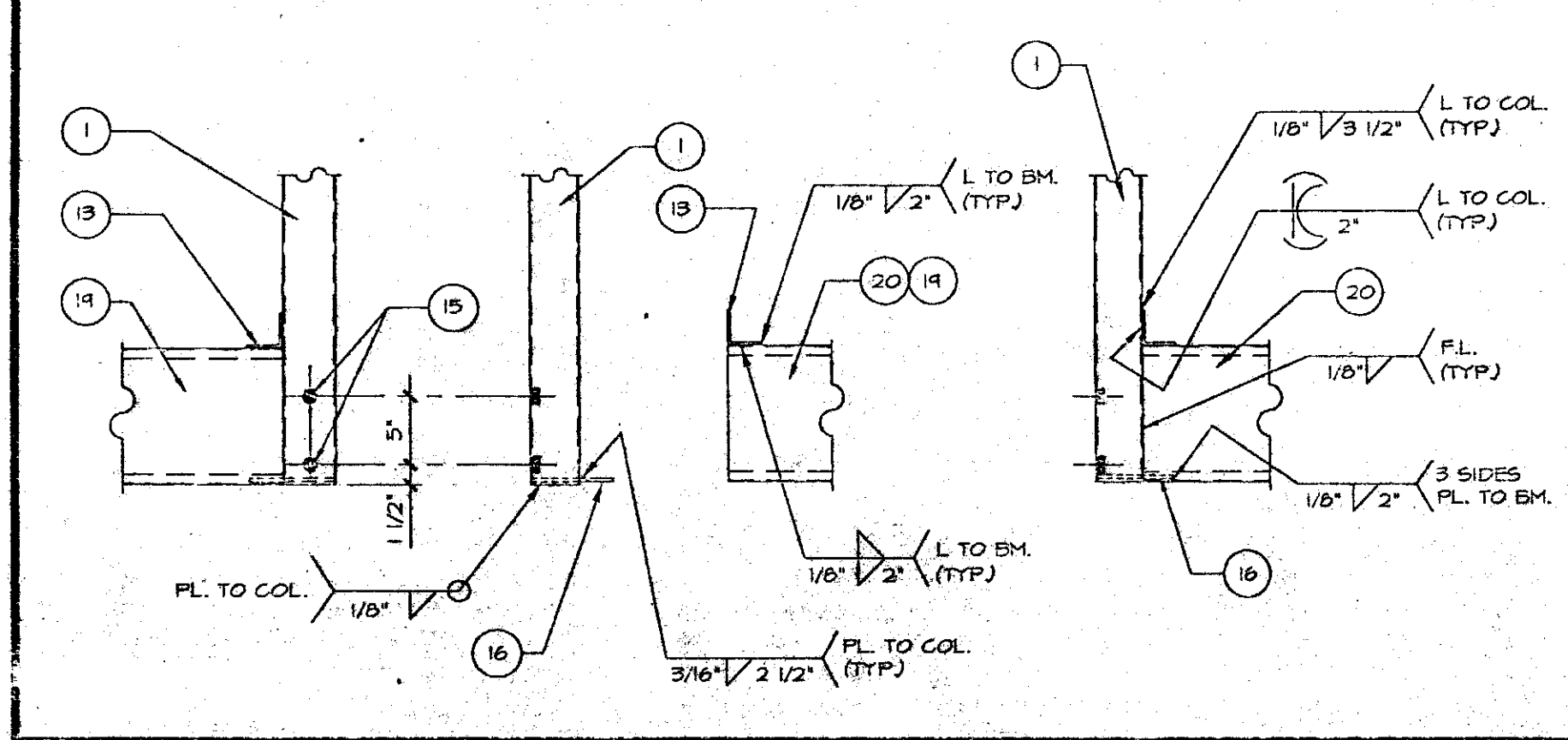
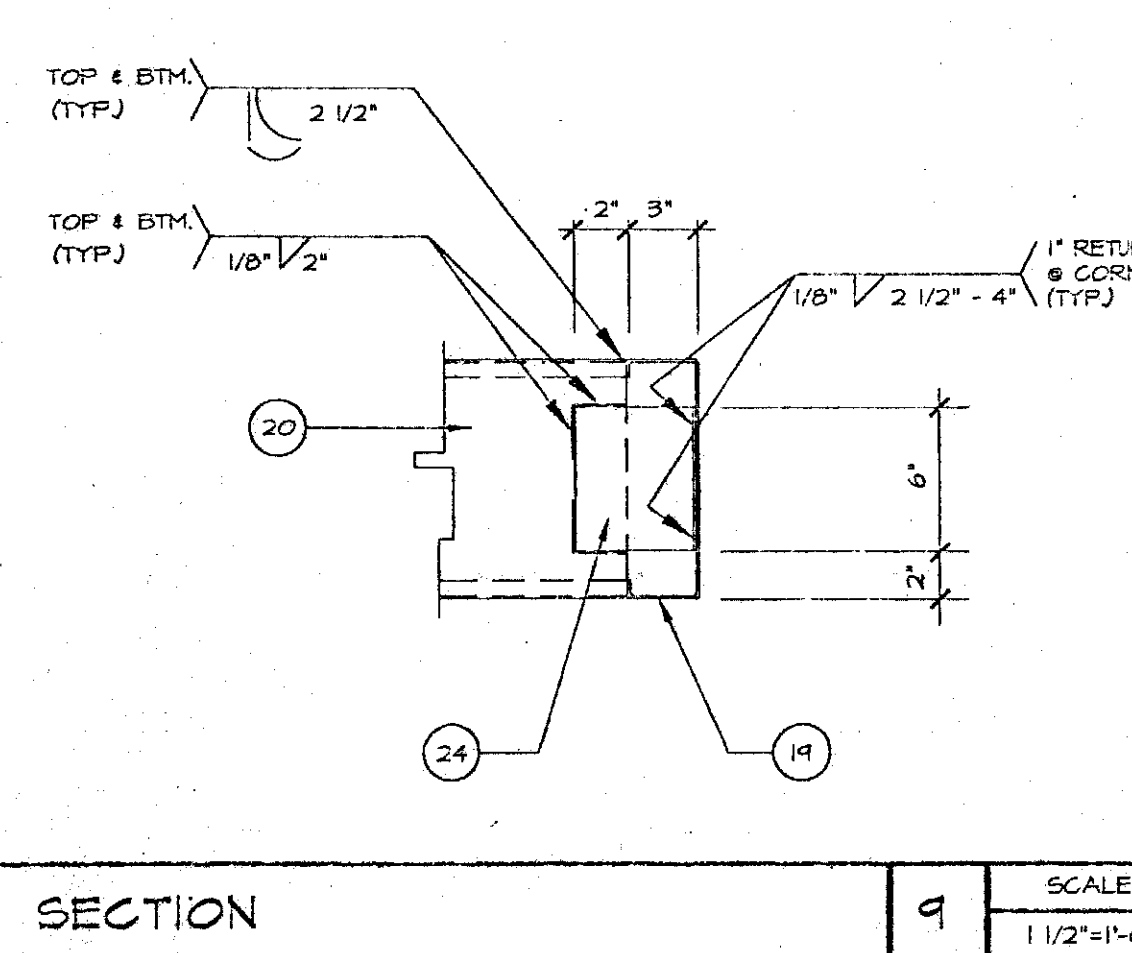
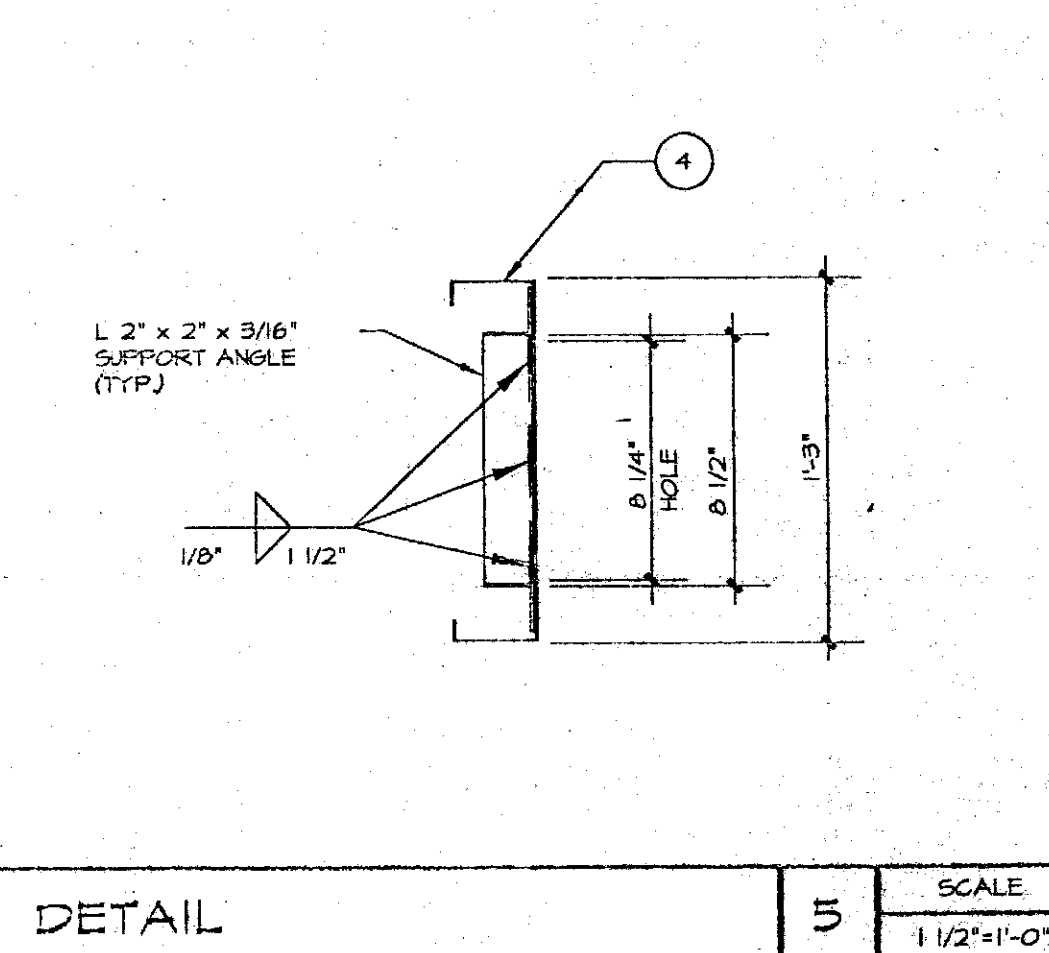
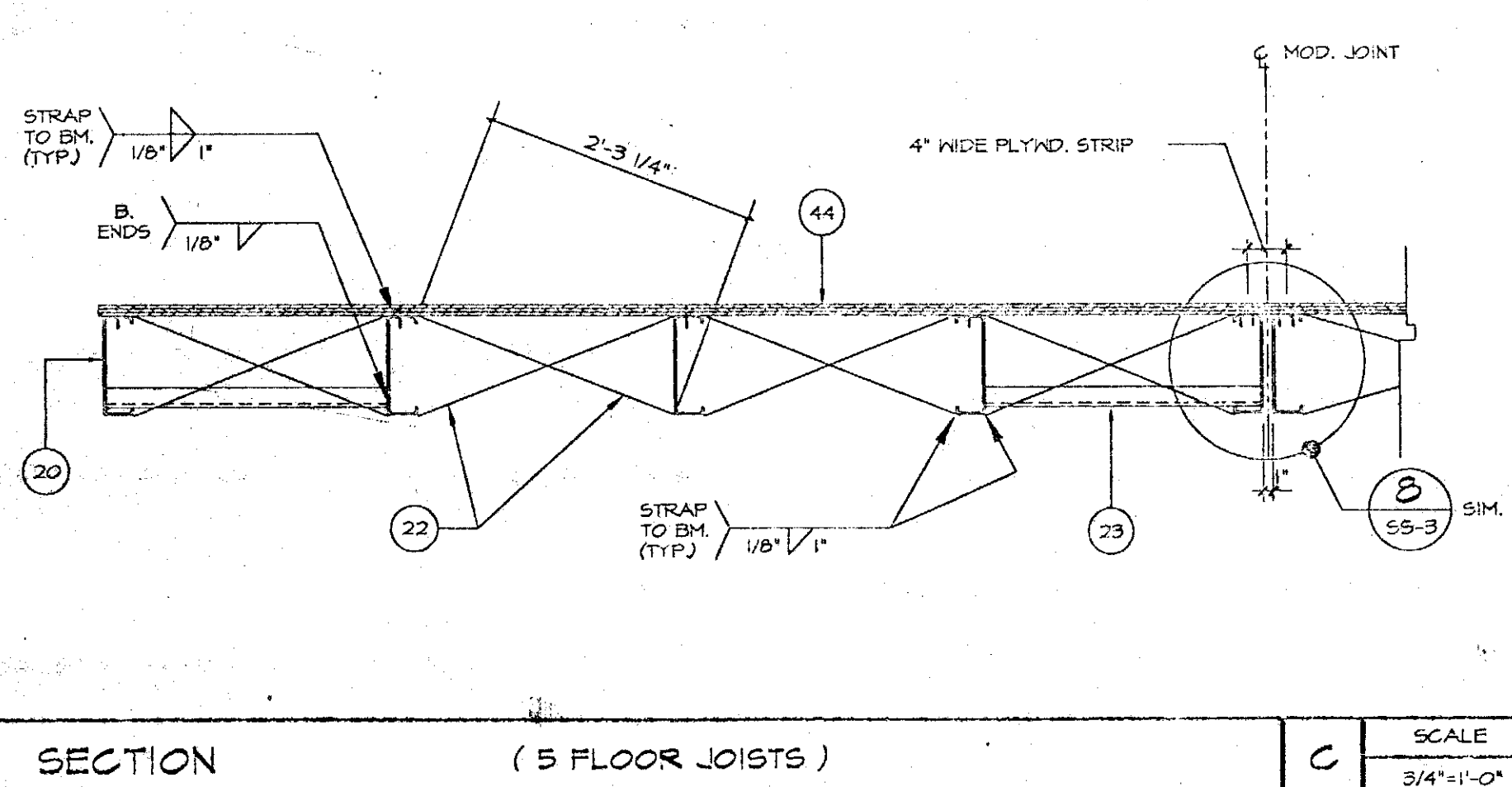
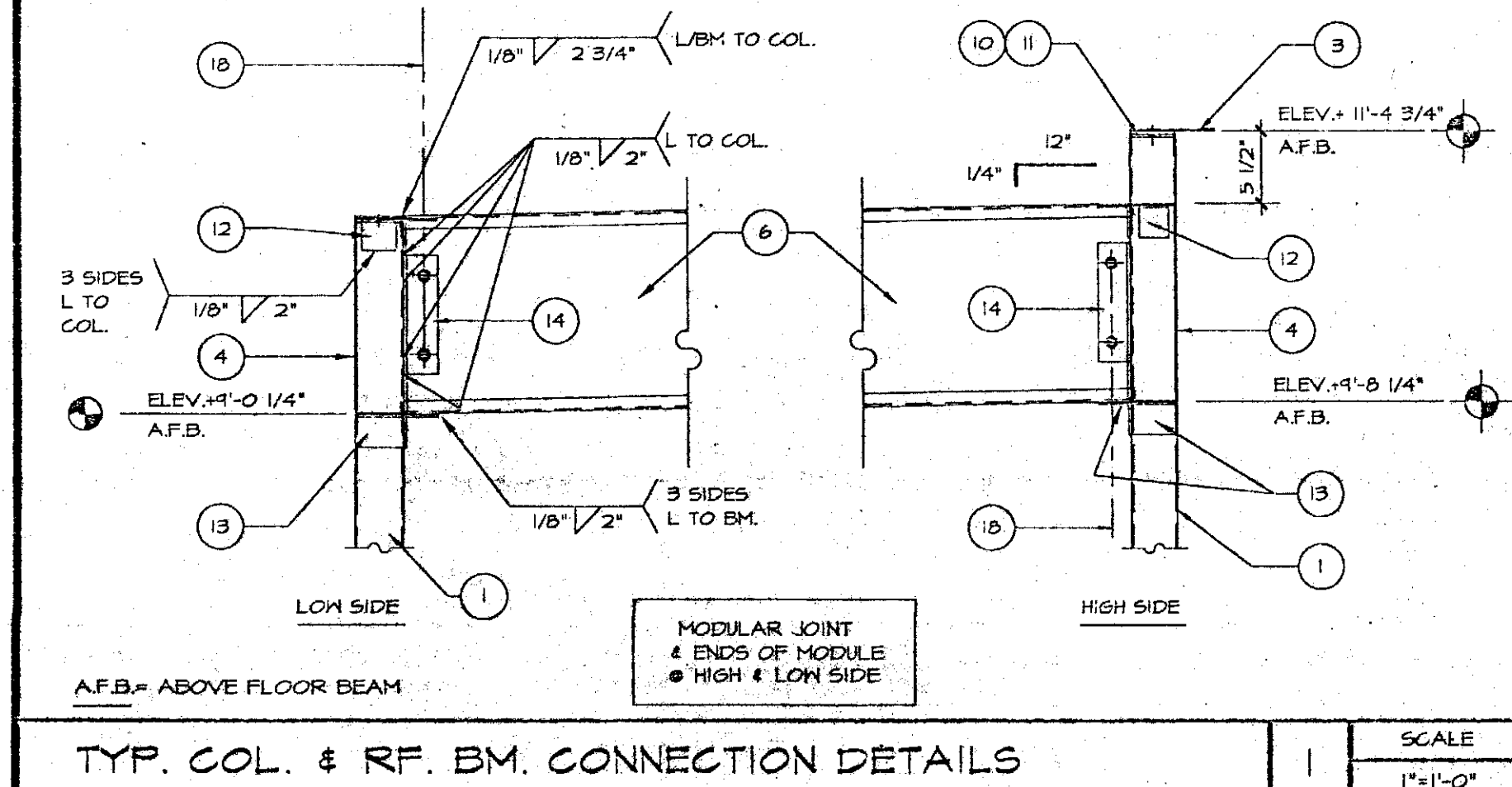
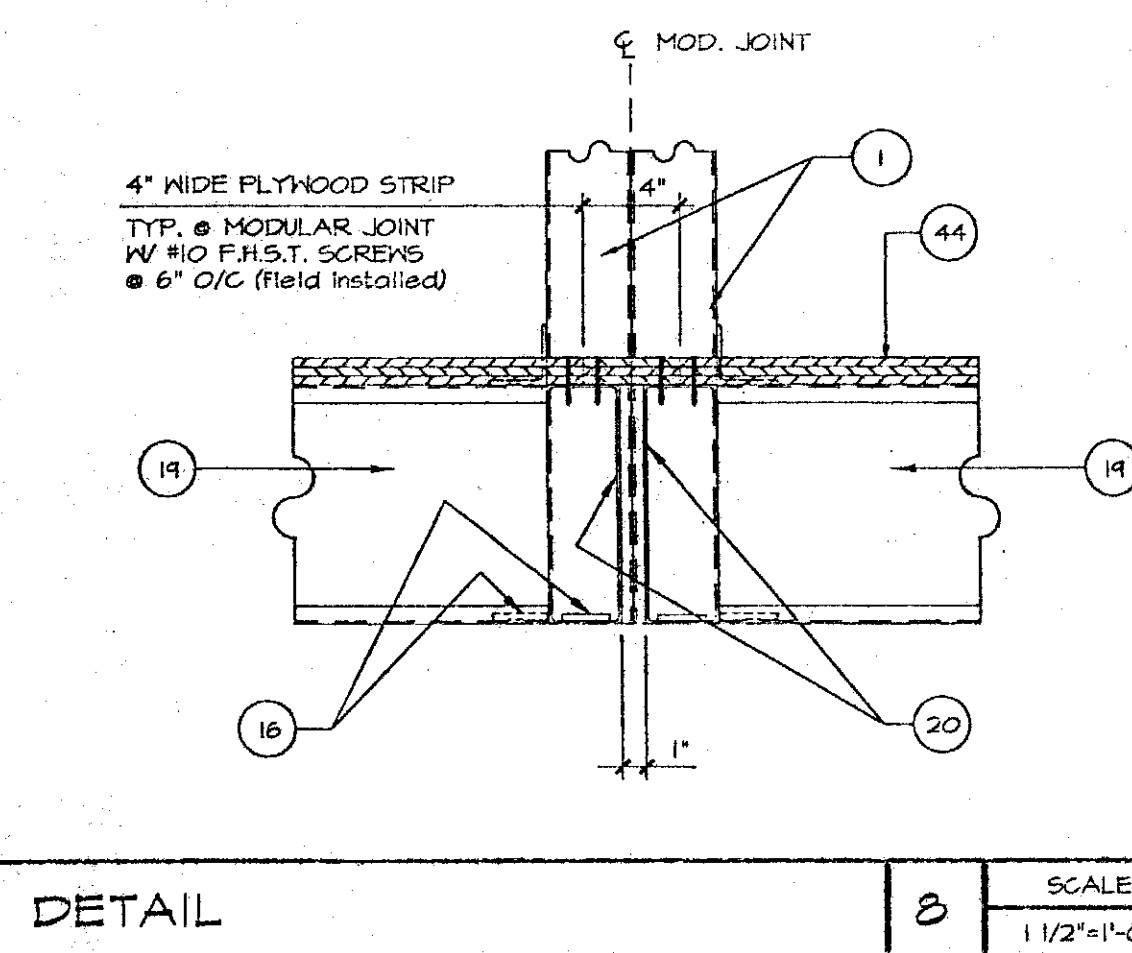
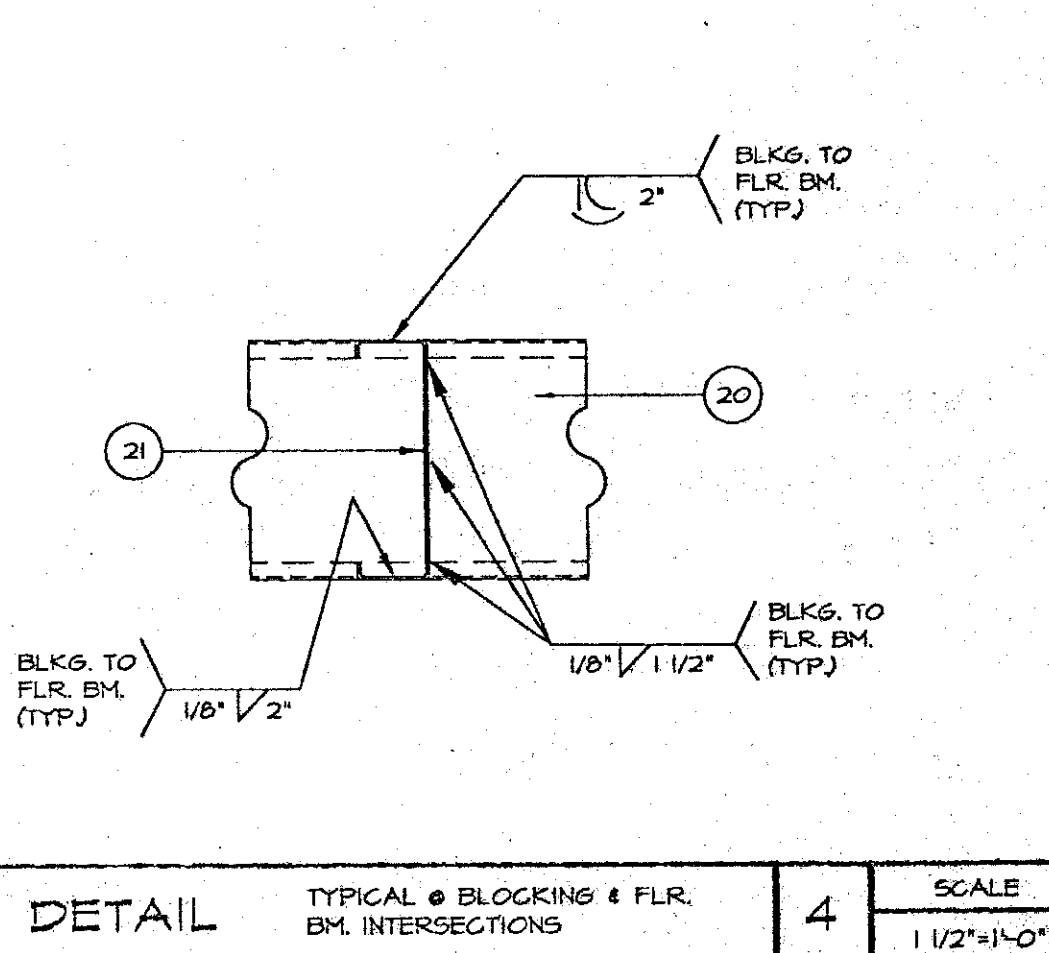
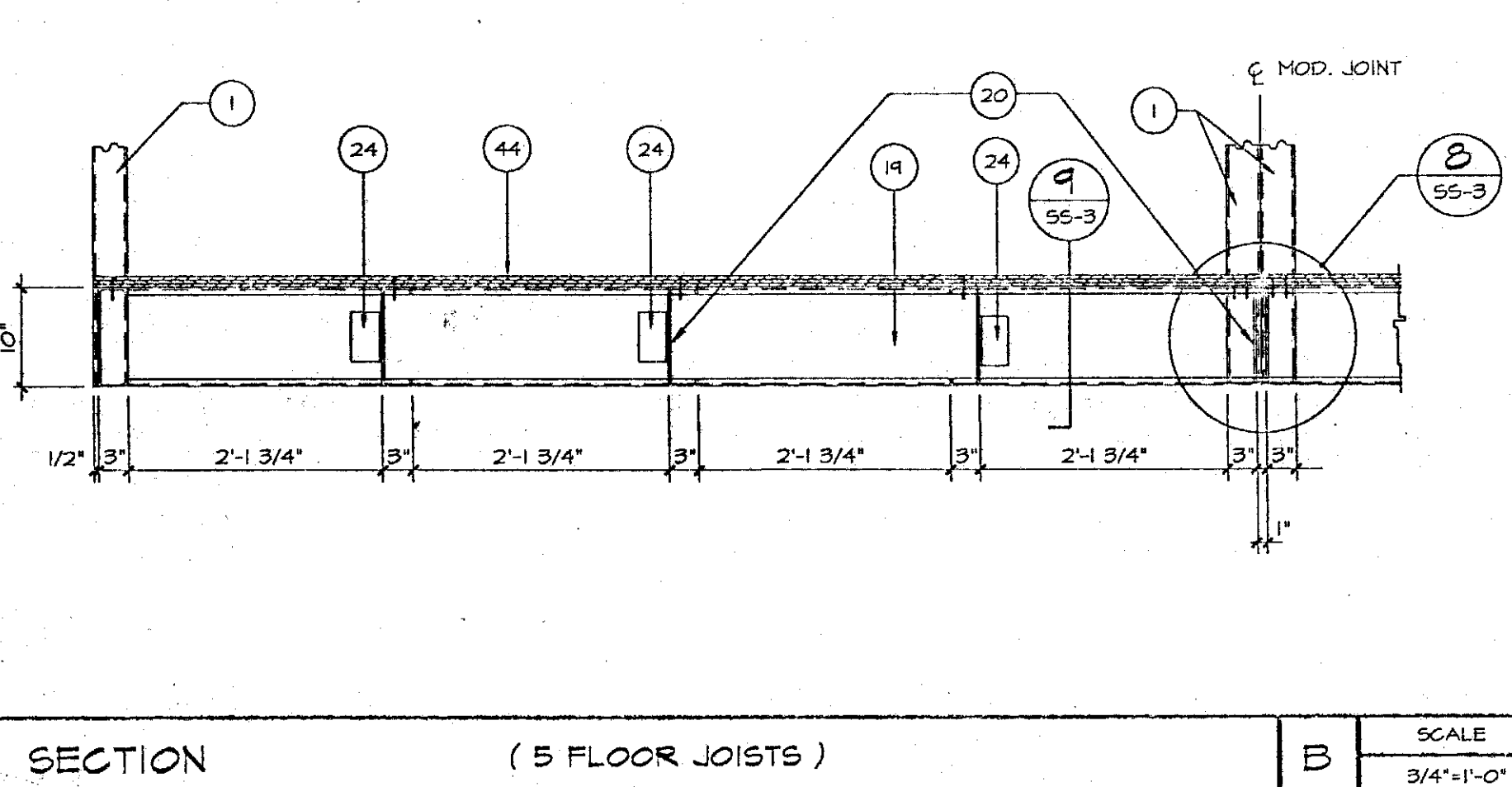
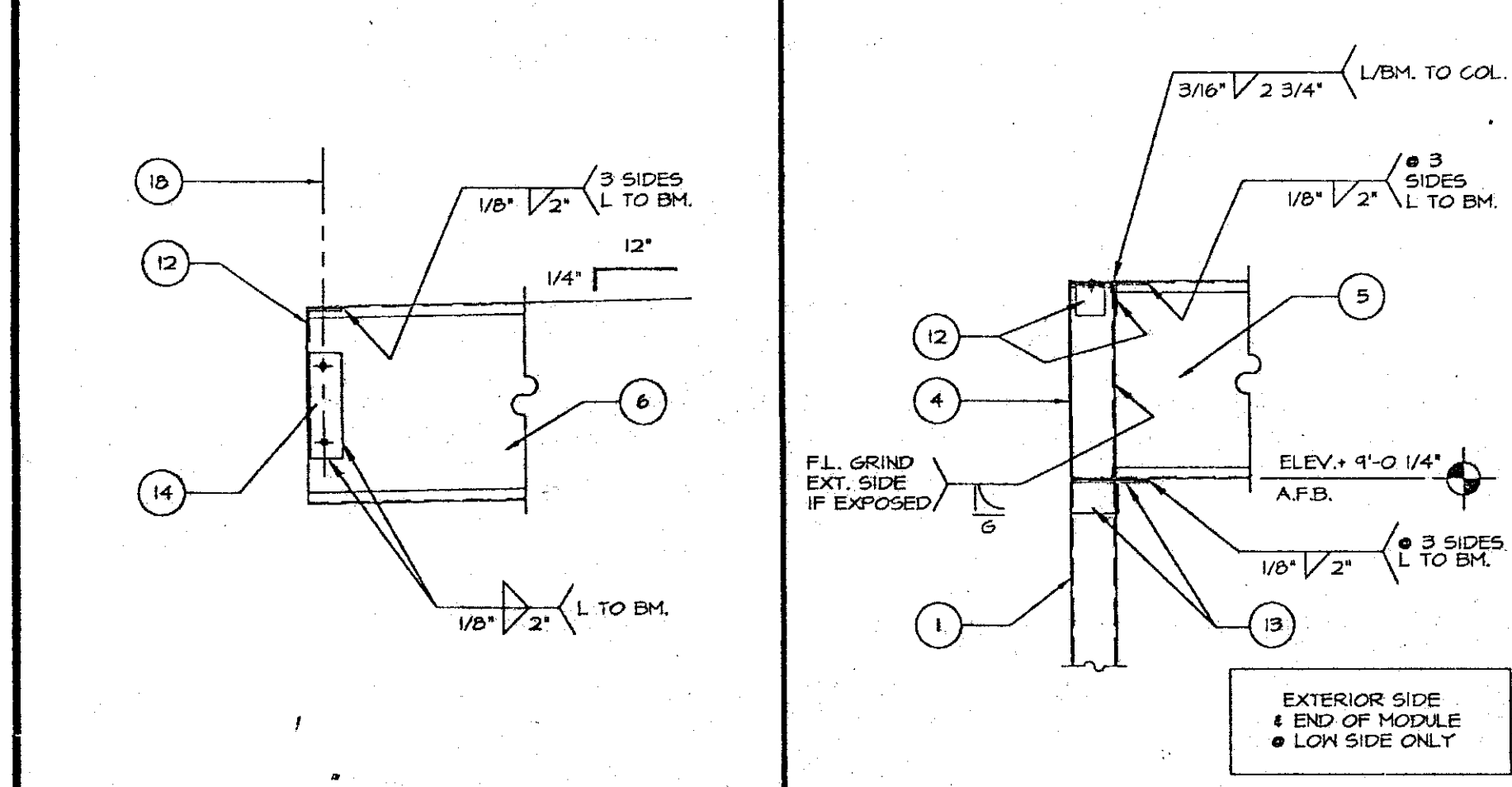
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APPR. 102932  
AC: \_\_\_\_\_ FLS: \_\_\_\_\_ SS: \_\_\_\_\_  
DATE: NOV 17 1999  
NOTE:  
TYPICAL FOR 70 MPH WIND EXPOSURE 'C'  
AND 30 MPH WIND EXPOSURE 'C'

AZ 990303



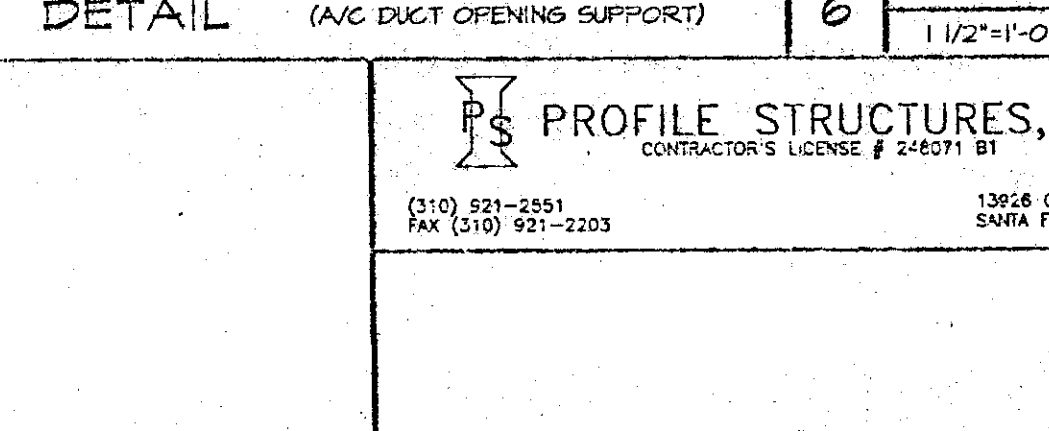
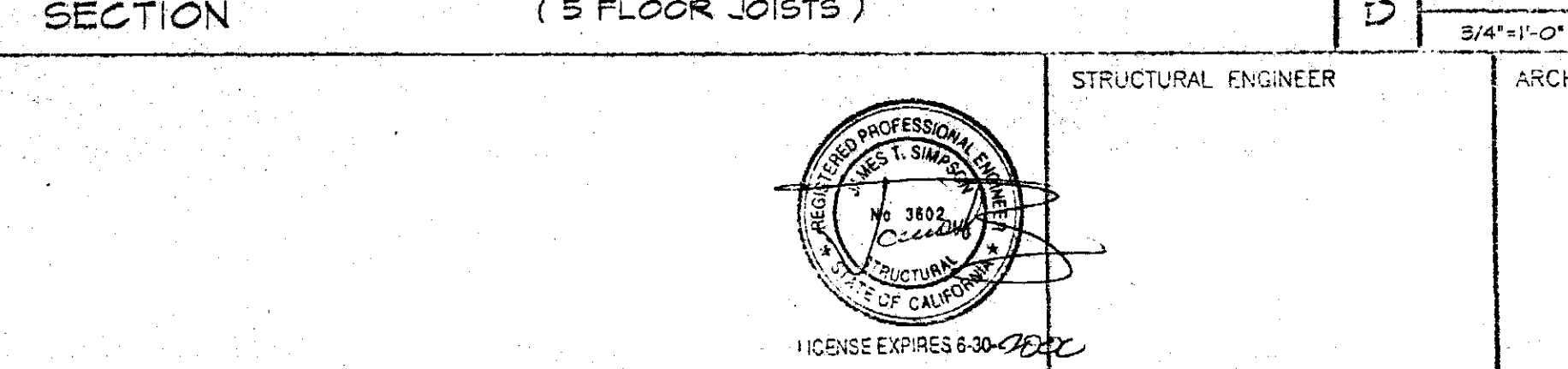
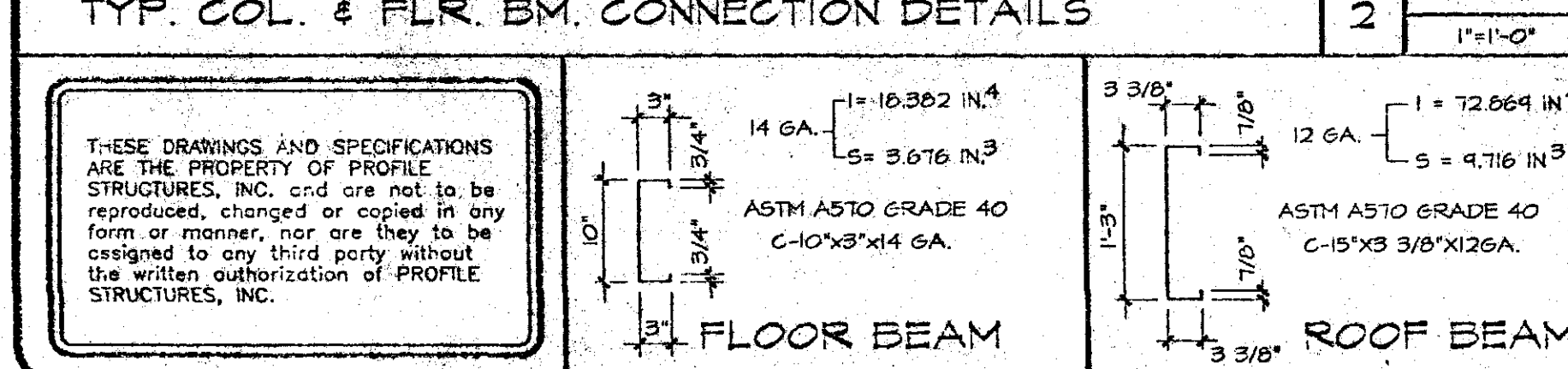


REFERENCE NOTES : (AS APPLICABLE)	
1. TS 3 1/2x3 1/2x11 GA. COLUMN	46. 7/8\"
2. TS 3 1/2x3 1/2x11 GA. INTERMEDIATE COL.	47. 1/2\"
3. STL. PL. 1/4\"	48. 5/8\"
4. C 15x3 3/8x1/2 GA. END ROOF BEAM	49. 1/2\"
5. C 15x3 3/8x1/2 GA. SIDE ROOF BEAM	50. R-11 F.F.S. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50.
6. C 15x3 3/8x1/2 GA. SLOPE MOD JOINT (TYP)	51. R-11 F.F.S. INSULATION FLAME SPREAD 0-25, SMOKE DENSITY 50, SUPPORTED W/ 1\"/>
7. C 15x3 1/2x10 GA. SLOPE MOD JOINT (TYP)	52. CEILING BOARD, MINERAL FIBER LAY-IN PANEL 24x48x5/8\"
8. C 10x3x1/4 GA. ROOF BEAM	53. MAIN RUNNER - AR-STRONG # 1300 INTER. DUTY
9. 3/16\"	54. CROSS RUNNER - AR-STRONG # 1345 INTER. DUTY
10. 1/4\"	55. WALL ANGLE - AR-STRONG # 10200 NON-CLASSIFIED
11. 3/4\"	56. ANGLE HANGER - 3\"
12. L 2 1/2x2 1/2x3/16x10-2 3/4\"	57. CONT. WALL ANGLE SECURED TO ANGLE HANGERS WITH 1/8\"
13. L 2 1/2x2 1/2x3/16x10-3 1/2\"	58. 6\"
14. L 2 1/2x2 1/2x3/16x10-3 1/2\"	59. 3\"
15. 4/8\"	60. KEATHERSTRIP - 3/4\"
16. 1/2\"	61. THRESHOLD - 2\"
17. 1/2\"	62. DOOR BOTTOM - 2\"
18. 5/8\"	63. PLASTIC MOLDING AROUND WINDOW OPENING.
19. C 10x3x1/4 GA. FLOOR END BEAM (TYP)	64. SHEET METAL EDGE TRIM.
20. C 10x3x1/4 GA. FLOOR SIDE BEAM (TYP)	65. CONT. 22 GA. X 1\"
21. C 10x3x1/4 GA. BLOCKING	66. PROVIDE CONT. BEAD OF CAULKING.
22. L 1/4\"	67. 5/8\"
23. L 2 1/2x2 1/2x3/16x10-4\"	68. 1/4\"
24. L 5/8\"	69. GALV. WIRE SCREEN WITH 1/4\"
25. TS 3 1/2x3 1/2x11 GA. X 1\"	70. SHEET METAL BRACKET ON TOP & SECURED TO FLOOR BEAM & CONC. FOOTING WITH 1/8\"
26. TS 3 1/2x3 1/2x11 GA. X 1\"	71. UNDERFLOOR VENT (SEE FOUNDATION PLAN FOR REF.)
27. TS 2\"	72. RAMPS AND LANDING (OPTIONAL)
28. TS 3 1/2x3 1/2x11 GA. X 1\"	73. EXISTING GRADE OR FINISH GRADE.
29. TS 4\"	74. CONCRETE FOUNDATION.
30. 2\"	75. BUILDING PAD / DIRT PAD.
31. 2\"	76. MOISTURE BARRIER - TAR IMPREGATED BOARD OR EQUAL (BY OTHERS)
32. 2\"	77. APPROVED COMPACTED FILL.
33. 2\"	78. 4\"
34. LB-26	79. 4\"
35. 1/2\"	80. 4\"
36. L 2\"	81. 4\"
37. 6\"	82. 4\"
38. 6\"	83. 4\"
39. 4\"	84. 4\"
40. 4\"	85. 4\"
41. 24 GA. CONT. GALV. FASCIA	
42. 2-1/4\"	
43. 5/8\"	



**STEEL**

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST ASTM A36 SPECIFICATION.
- STRUCTURAL STEEL TUBING SHALL CONFORM TO THE LATEST ASTM A500-TI GRADE "B" SPECIFICATION.
- LIGHT GAGE STEEL SHALL CONFORM TO THE LATEST ASTM SPECIFICATION, GALVANIZED, A360 GRADE "A", HOT ROLLED, A360 GRADE "40" (75 & 40 KSI).
- FABRICATION & ERECTION OF ALL STRUCTURAL AND LIGHT GAGE GALV. FORMED STEEL SHALL CONFORM TO THE AISC & AISI SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING.
- ALL SHOP WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS, AND SHALL BE INSPECTED, CERTIFIED AND APPROVED BY AN A.S.I.S. CERTIFIED INSPECTOR.
- UNLESS OTHERWISE NOTED, WELDS SHALL BE 1/8\"
- FIELD WELDS, IF SPECIFIED, SHALL BE CERTIFIED BY AN A.S.I.S. INSPECTOR.
- ALL BOLTS SHALL BE 1/2\"
- FABRICATED STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF APPROVED PRIMER, UNLESS NOTED.
- ALL WELDS SHALL BE INSPECTED BY D.S.A. APPROVED INSPECTOR. PER SECT. 22125 TITLE 24 C.C.R.



**GENERAL NOTES**

- 2-1/4\"
- 5/8\"



**GENERAL NOTES**

- 2-1/4\"
- 5/8\"

**IDENTIFICATION STAMP**  
 DIV. OF THE STATE ARCHITECT  
 NO. 102932  
 DATE NOV 17 1999

**APPROVED ARCHITECT**  
 [Signature]  
 STATE OF CALIFORNIA

**PROF. STRUCTURES, INC.**  
 CONSTRUCTION LICENSE # 245971 B1  
 1308 CALIFORNIA BL.  
 SANTA FE SPRING, CA 92670  
 (714) 921-2251  
 FAX (714) 921-2253

**30740/50/60x32' CLASSROOM BUILDINGS**  
 RIGID FRAME - BUILT UP ROOF - K.O.D/METAL STUDS

SCALE: NOTED  
 DATE: 01/29/96  
 50+20 P.F.F. PARTITION LOAD  
 125 P.F.F. FLOOR LOAD

DRAWING NUMBER: **SS-3**

DIVISION OF THE STATE ARCHITECT  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 OFFICE OF REGULATION SERVICES

APPL. **PC-95**  
 AC. FLS. SS.  
 DATE: **JAN 18 2000**

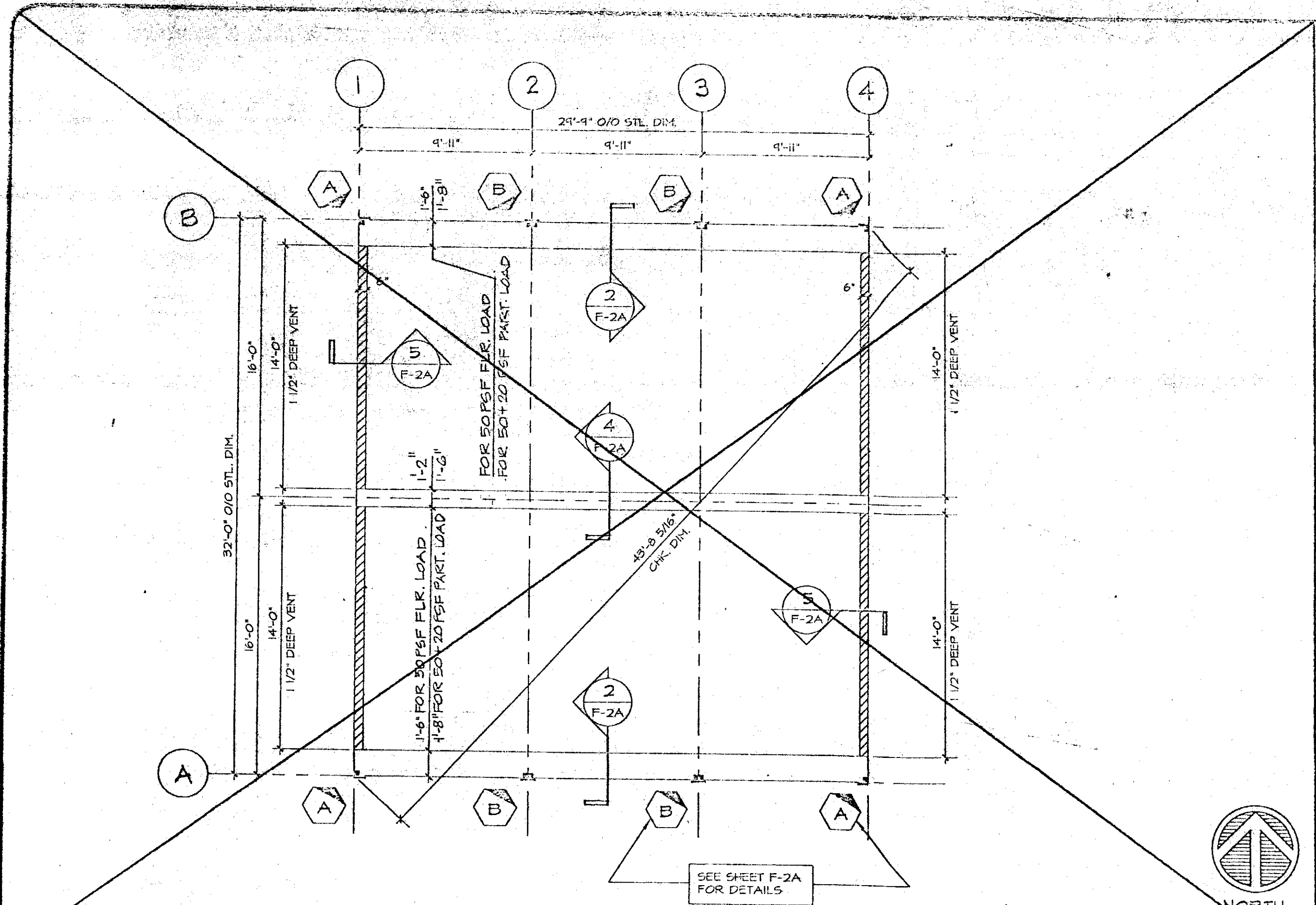
**AZ 990303**

C:\MSR\15\15\05\2905-3 Thu Jul 24 11:24:31 1997

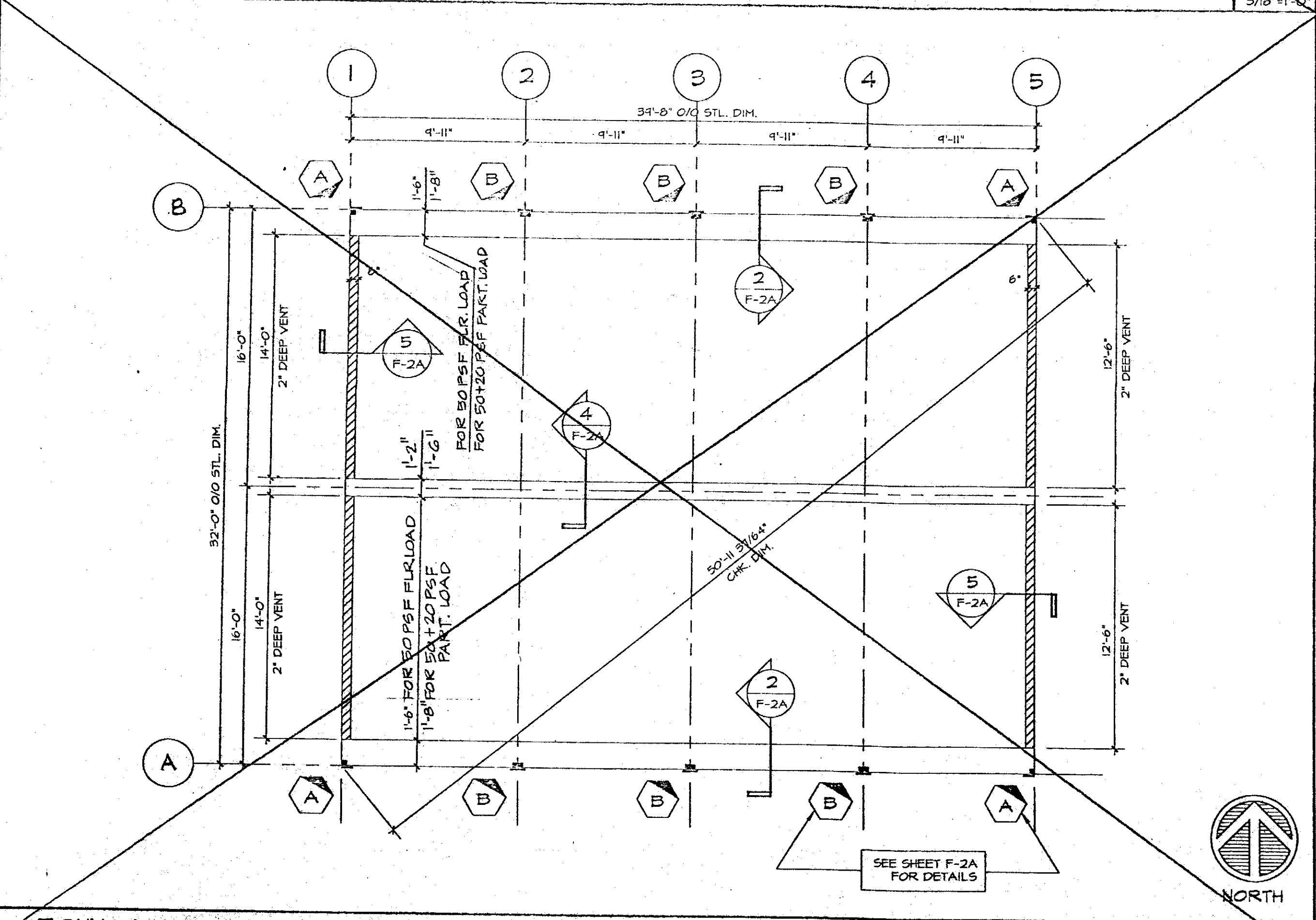






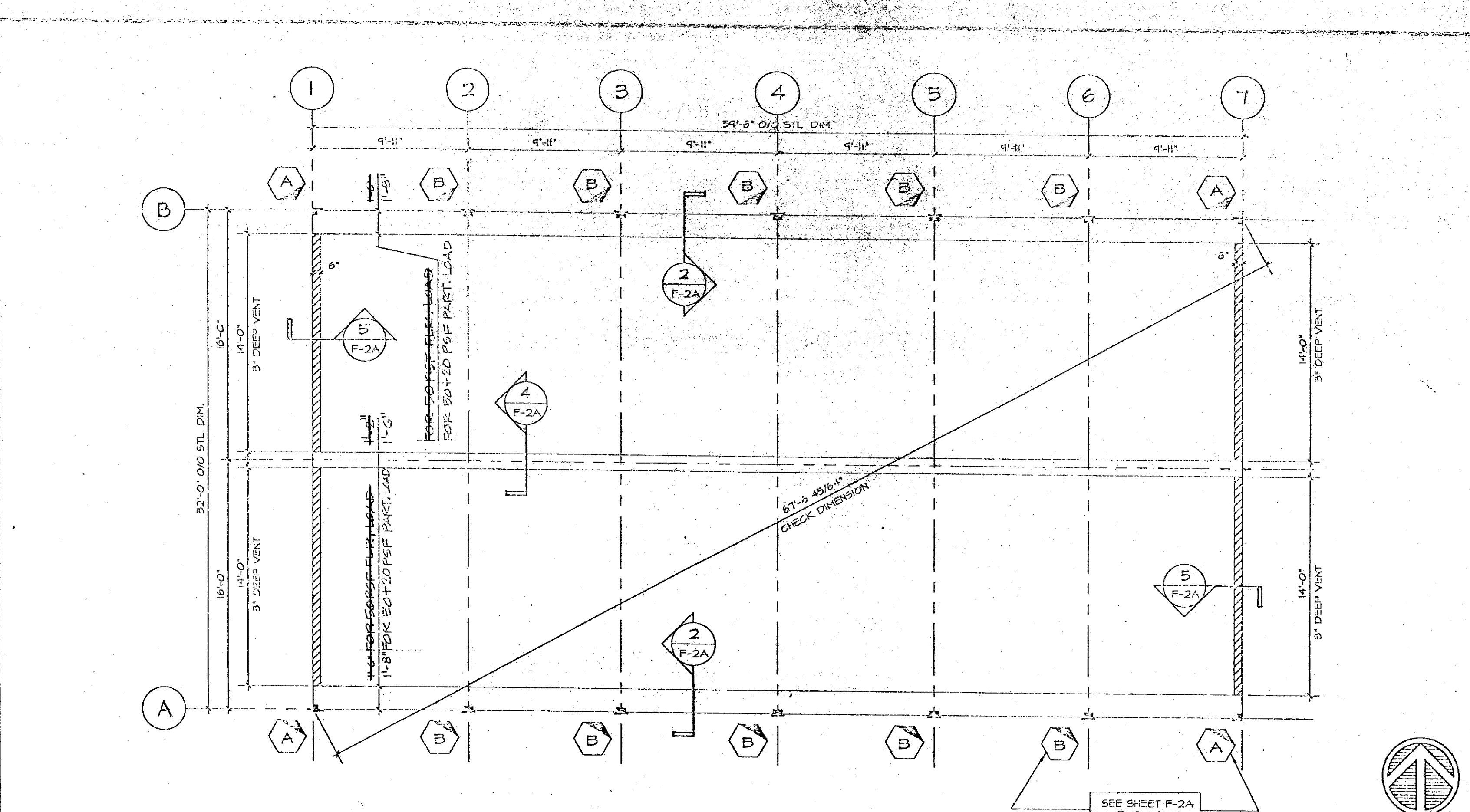


FOUNDATION PLAN (3) MODULES

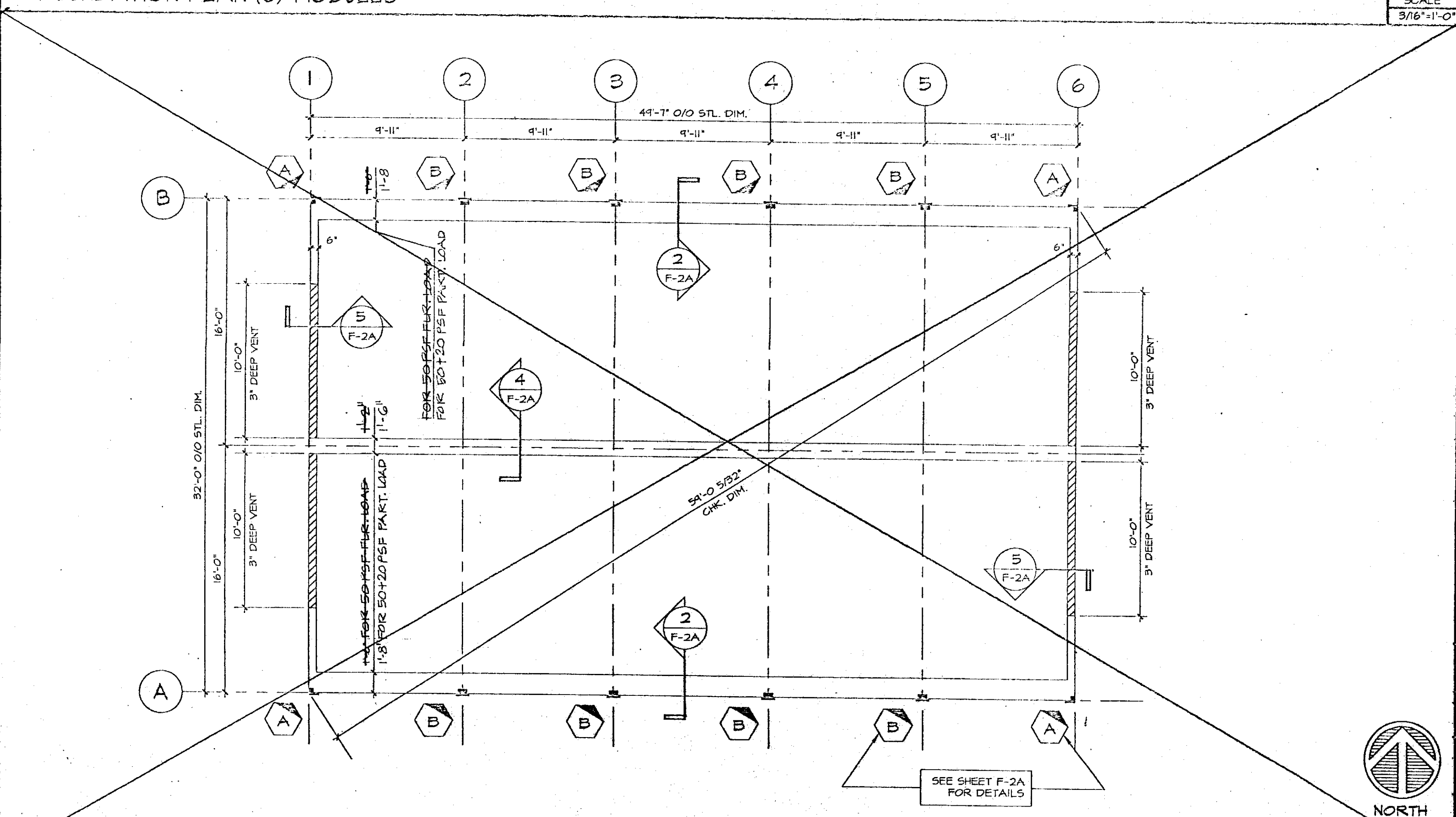


FOUNDATION PLAN (4) MODULES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.



FOUNDATION PLAN (6) MODULES



FOUNDATION PLAN (5) MODULES

STRUCTURAL ENGINEER: [Signature] ARCHITECT: [Signature]

PROFILE STRUCTURES, INC. CONTRACTOR'S LICENSE # 248271 01

36'40'50'60' x 32' - CLASSROOM BUILDINGS RIGID FRAME - BUILT UP ROOF - WOOD/METAL STUDS

SCALE: NOTED DATE: 08/15/96 APPROVED BY: [Signature]

50 PSF FLOOR LOAD 50 F20 PSF PARTITION LOAD

FOUNDATION PLAN (CONCRETE)

REFERENCE NOTES (AS APPLICABLE)

1. TS 3 1/2" x 1/2" x 11 GA. COLUMN
2. TS 3 1/2" x 1/2" x 11 GA. INTERMEDIATE COL.
3. STL. FL. 1/4" x 3 1/2" x 0'-6" 1/2" OUTRIGGER/ COLUMN SUPPORT
4. C 15x3 3/8x1/2 GA. END ROOF BEAM
5. C 15x3 3/8x1/2 GA. SIDE ROOF BEAM
6. C 15x3 3/8x1/2 GA. SLOPE & MOD JOINT (TYP)
7. C 10x3x1/4 GA. ROOF BEAM
8. 3/8" THK. STIFFENER PLATE
9. 1/4" THK. COLUMN GAP PLATE (TOP & BOT)
10. 3/4" NUT, TACKWELDED INSIDE GAP PLATE
11. L 2 1/2x2 1/2x3/8x3/8-3 1/4" LG. CLIP
12. L 2 1/2x2 1/2x3/8x3/8-3 1/4" LG. CLIP
13. L 2 1/2x2 1/2x3/8x3/8-3 1/4" LG. CLIP
14. L 2 1/2x2 1/2x3/8x3/8-3 1/4" LG. CLIP
15. 4/8" HOLES IN 1/2" NUT TACKWELDED INSIDE COL.
16. 1/2" x 1/2" x 3/8" STEEL PLATE
17. 1/2" MACHINE BOLT (TYP)
18. 5/8" MACHINE BOLT (TYP)
19. C 10x3x1/4 GA. FLOOR END BEAM (TYP)
20. C 10x3x1/4 GA. FLOOR SIDE BEAM (TYP)
21. C 10x3x1/4 GA. BLOCKING
22. 1 1/4" WIDE x 20 GA. BRIDGING STRAPS
23. L 2x4x1/4 GA. & EXT. SIDES OF MODULES & BRIDGING STRAPS LOCATION ONLY (SEE FLOOR FRAMING PLAN)
24. L 5x3x1/4 GA. & 6" LG.
25. TS 3 1/2" x 1/2" x 11 GA. X 0'-4" LG. LEDGER, SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
26. TS 3 1/2" x 1/2" x 11 GA. X 0'-4" LG. LEDGER, SEE DETAIL FOR REF. (INSTALL TO MATCH SLOPE OF RIM JOIST)
27. TS 2x4x1/4 GA. X 0'-8" LG. LEDGER/STOCK, WELDED TO REF. BEAM & HOLD DN. PLATE, SEE DETAIL FOR REF.
28. TS 3 1/2" x 1/2" x 11 GA. STOCK WELDED TO REF. BEAM & LEDGER TUBE CUT AS REQ'D. (SEE DET. FOR REF.)
29. TS 4x2x1/4 GA. ROOF JOIST WELDED @ EACH END TO TS 4x2x1/4 GA. OUTRIGGER (TYP)
30. TS 4" x 2" x 1/2" GA. OUTRIGGER WELDED TO TS 3 1/2" x 1/2" x 11 GA. COL. (SEE REF. FRAMING PLAN)
31. 2x6" D.F. #2 RIM JOIST (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
32. 2x6" D.F. #2 ROOF JOIST @ 24" O.C. W/ (3) 1/4" NAILS @ EA. END, (RIM JOIST TO ROOF JOIST) (TYP) W/ LB-35 SIMPSON JOIST HANGERS @ EXTERIOR SIDES ONLY (SEE ROOF FRAMING PLAN FOR REF.)
33. (2) 2x6" D.F. #2 (AT ROOF PANEL JOINT) SPIKE TOGETHER W/ 1/4" GALV. BOX NAILS @ 12" O.C. IN FIELD (TYP) SEE ROOF FRAMING PLAN FOR REF.
34. LB-35 SIMPSON JOIST HANGERS (TYP)
35. 1/2" THICK PLYWOOD SHEATHING (TYP) STRUCH. W/ 1/4" GALV. NAILS @ 6" O.C. ON ALL EDGES AND @ 12" O.C. IN FIELD (TYP) SEE ROOF FRAMING PLAN FOR REF.
36. L-2x2x1/4 GA. BRACING (TYP) SEE ROOF FRAMING PLAN FOR REF. (TYP)
37. 6" x 8" L.G. X 10 GA. SH. METAL HOLD DN. PLATE W/ (8) 1/4" X 1/2" LG. WOOD SCREWS TO RIM JOIST, WELDED TO STL. TUBE RISER STOOD. SEE DETAIL FOR REF. (TYP)
38. 6" x 14" L.G. X 10 GA. SH. METAL HOLD DN. PLATE W/ (8) 1/4" X 1/2" LG. WOOD SCREWS TO RIM JOIST, WELDED TO STL. TUBE RISER STOOD. AT PANEL JOINT. SEE DETAIL FOR REF.
39. CLASS "A" MINERAL SURFACE BUILT UP ROOFING SYSTEM BY 100' ROOFING PRODUCTS OR ARCHITECT APPROVED EQUAL TO CONFORM TO 100' SPECIFICATION NO. A-4-1-2 (TYP) U.L. # R-11656 (U)
40. 4x3x26 GA. GALV. 5/8" DOWNPOUT WITH STRAPS & 5" O.C. (P.A.) SECURED TO SLUG, W/ NO S.M.S.
41. CONT. 24GA. GALV. GUTTER
42. 4x3x26 GA. GALV. 5/8" OVERFLOW
43. 24 GA. CONT. GALV. FASCIA
44. 2-1/4" PLYWOOD FLOOR DECK - (D.F.) PS-93 T&G 1 1/2" THK. WITH 1/4" x 1 1/4" LG. FAST. SCREWS @ 6" O.C. ON EDGES & 10" O.C. IN FIELD.
45. 5/8" THK. EXTERIOR GRADE PLYWOOD SIDING (TYP) PAINT OVER OR BLDG. PAPER OR 4 MIL. VIBROSEEN WITH 80 BOX NAILS @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD (TYP) PAINT FINISH TO BE SELECTED BY SCHOOL DIST. (FOR METAL STUDS) USE #8 PH.S.T. SCREWS @ 6" O.C. ALL EDGES AND 12" O.C. IN FIELD (TYP)
46. 1/8" THK. PORTLAND CEMENT FLAGGER FINISH OVER PLYWOOD SHEATHING
47. 1/2" THK. BRICK OVER 1/2" THK. GYPSUM BOARD, SEE FIN. SCHEDULE FOR REF. (TYP)
48. 5/8" THK. GYPSUM BOARD (PAINT FINISH)
49. 1/2" THK. DRAGON INTERIOR WALL FINISH
50. 5/8" F.G. INSULATION FLARE SPREAD 0-25, SMOKE DENSITY 50
51. 5/8" F.G. INSULATION FLARE SPREAD 0-25, SMOKE DENSITY 50, SUPPORTED W/ 1/2" PLASTIC NETTING SECURED TO DIM. OF RT. JOIST W/ 1/2" STAPPLES (TYP)
52. CEILING BOARD, MINERAL FIBER LAY-IN PANEL 24x48x2000 THE CORTEGA 781 BY ARISTARON NON-DIRECTIONAL GLASS A / F.S. G-25
53. MAIN RUNNER - ARISTARON # 1500 INTER. DUTY
54. CROSS RUNNER - ARISTARON # 1500 INTER. DUTY
55. WALL ANGLE - ARISTARON # 1500 NON-CLASSIFIED
56. ANGLE HANGER - 3/8"x2 1/4" GA. @ 24" O.C. - POP REVELED TO ROOF BLUM 1 TO WALL ANGLE
57. CONT. WALL ANGLE SECURED TO ANGLE HANGERS WITH 1/2" POP REVEL. (TYP)
58. 6" O.C. x 1'-0" (X) NAIL ON ALUM. HANGROD (OPTIONAL)
59. 3" O.C. x 6" (X) 3/4" NAIL DOCK ON METAL FRAME
60. WEATHERSTRIP - 3/4" AN - FEM 50
61. THRESHOLD - 21A - FEM 50
62. DOOR BOTTOM - 26A - FEM 50
- 63.
- 64.
- 65.
66. SEE WALL FRAMING ELEVATIONS FOR REFERENCE
- 67.
- 68.
- 69.
70. PLASTIC MOLDINGS AROUND WINDOW OPENINGS
71. SHEET METAL EDGE TRIM
72. CONT. 22 GA. X 1/2" WIDE SHIT. METAL FLASHING (TYP) @ 24" O.C. BUILDING
73. PROVIDE CONT. BEAD OF CAULKING
74. 5/8" x 3/4" CONCRETE ANCHOR "ROUVELOIT" OR EQ.
75. 1/4" THK. THE DOWN STEEL PLATE
76. GALV. WIRE SCREEN WITH 1/4" SQUARE HOLES ON 25 GA. SHEET METAL FRAME REVELED TO 24 GA. SHEET METAL BRACKET ON TOP & SCREWED TO FLOOR BEAM & CONC. FOOTING WITH #8 x 1 1/4" LG. S.M.S. WITH EXPANSION SHIELD @ 24" O.C.
77. UNDERFLOOR VENT (SEE FOUNDATION PLAN FOR REF.)
78. RAMPS AND LANDING (OPTIONAL)
79. EXISTING GRADE OR FRESH GRADE
80. CONCRETE FOUNDATION
81. BUILDING PAD / DIRT PAD
82. MOISTURE BARRIER - TAR IMPREGNATED BOARD OR EQUAL (BY OTHERS)
83. APPROVED/COMPACTED FILL
84. 4" THK. CONCRETE SLAB WITH 6x6 - #4 @ 4" REIN. (BY OTHERS)
85. 4" HIGH VINYL TORNET BASE (TYP)
86. CHALKBOARD/30x41" SECTIONS WITH CHALKTRAY, MOLDING & MAP RAIL WITH HOOK & FLAG HOLDER (2'-6" A.P.)

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
102932  
NOV 17 1999

NOT FOR CONSTRUCTION

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. # PC-295  
AC. FLS. SS. U/LP  
DATE OCT 03 1999

JAN 18 2000  
REV. # DATE DESCRIPTION BY

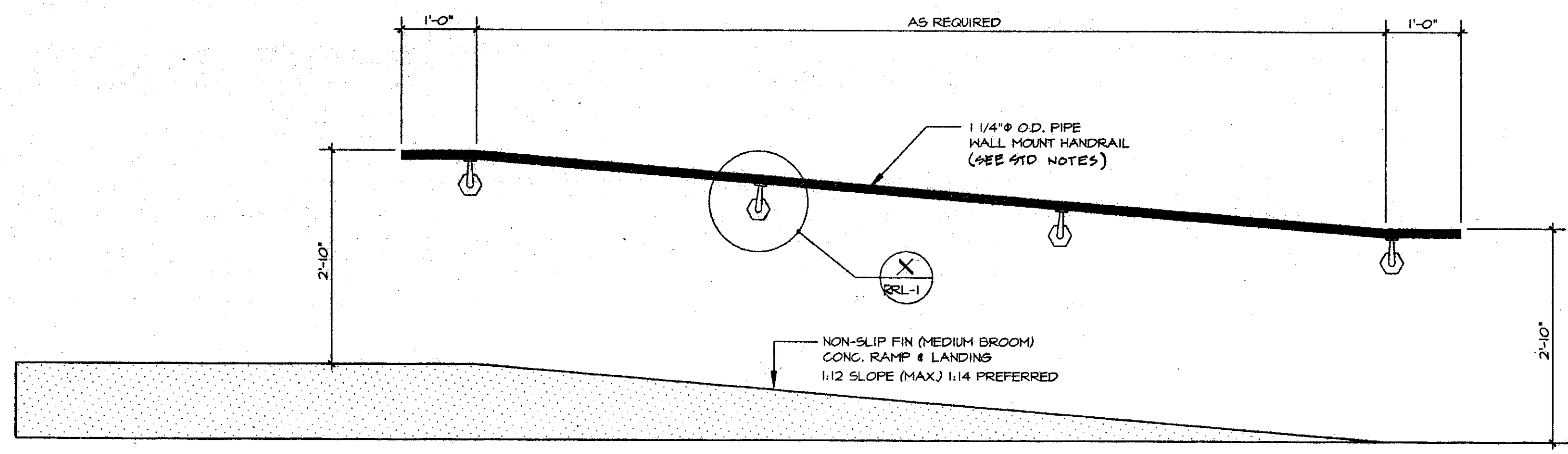
AZ 990303





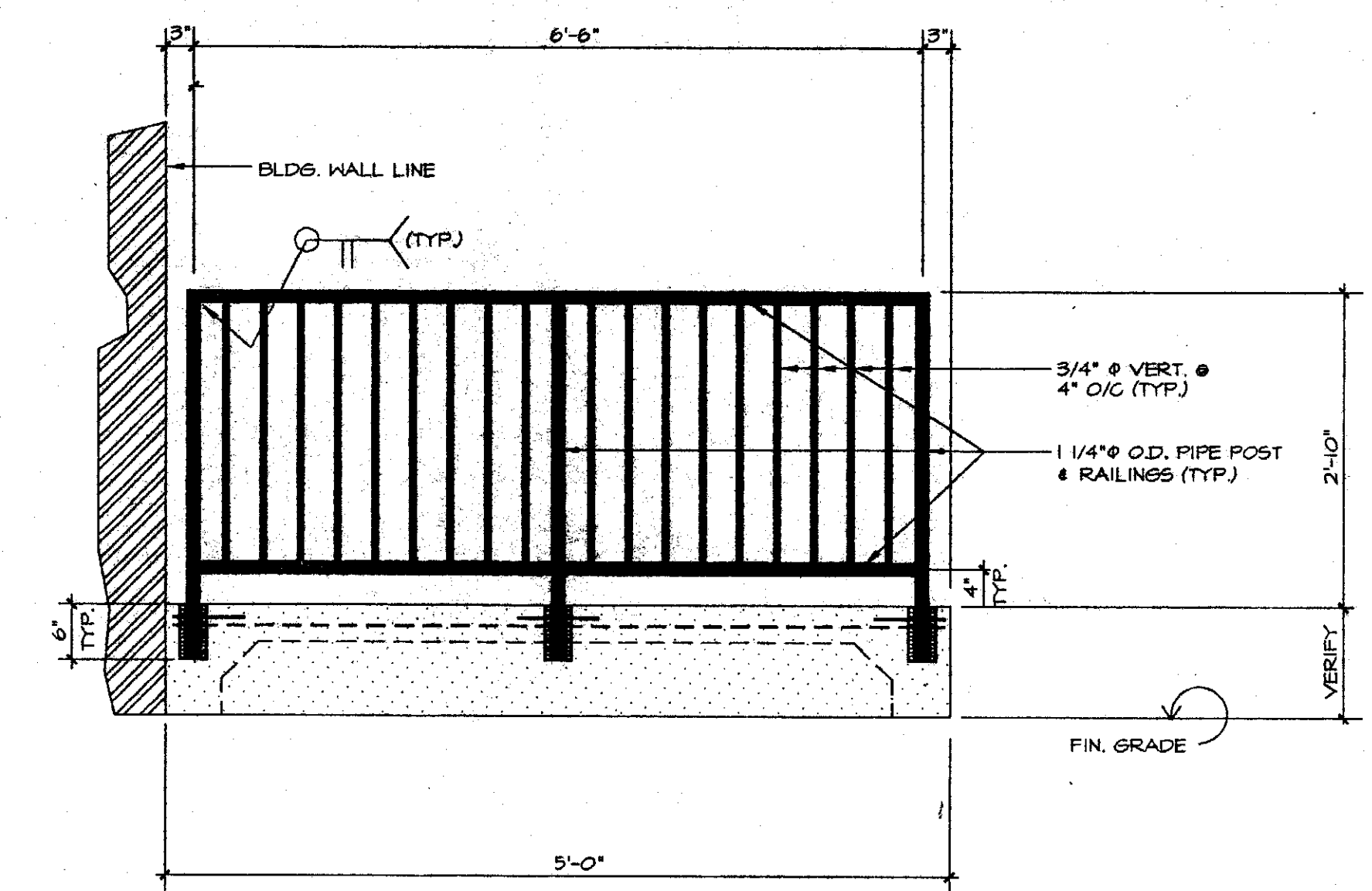


REFERENCE NOTES :



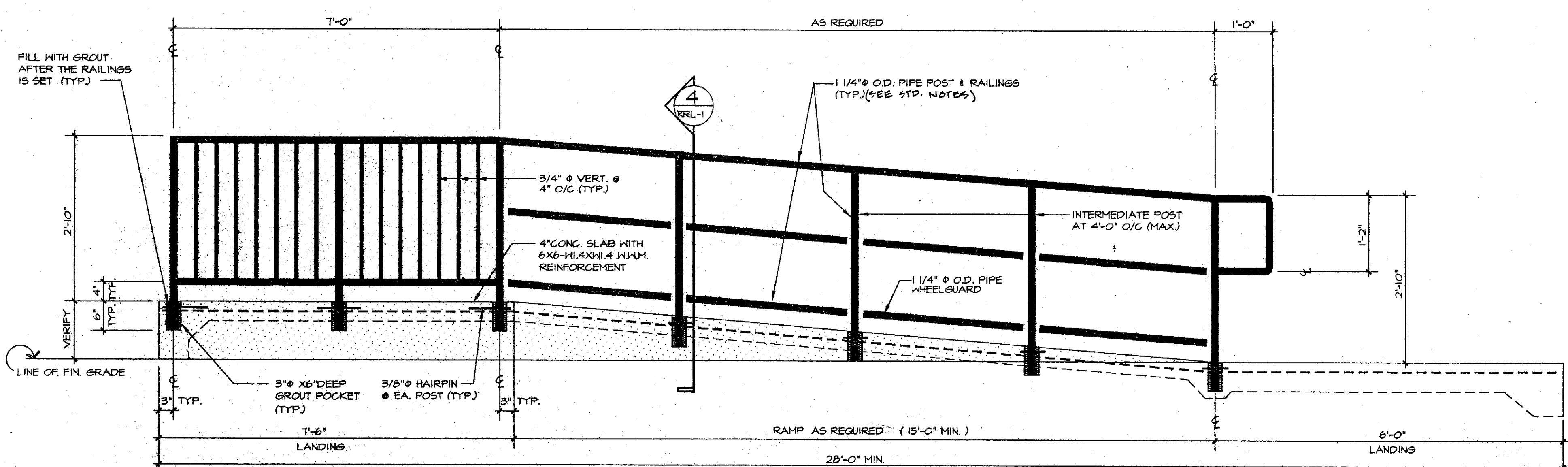
ELEVATION

SCALE 3/4"=1'-0"



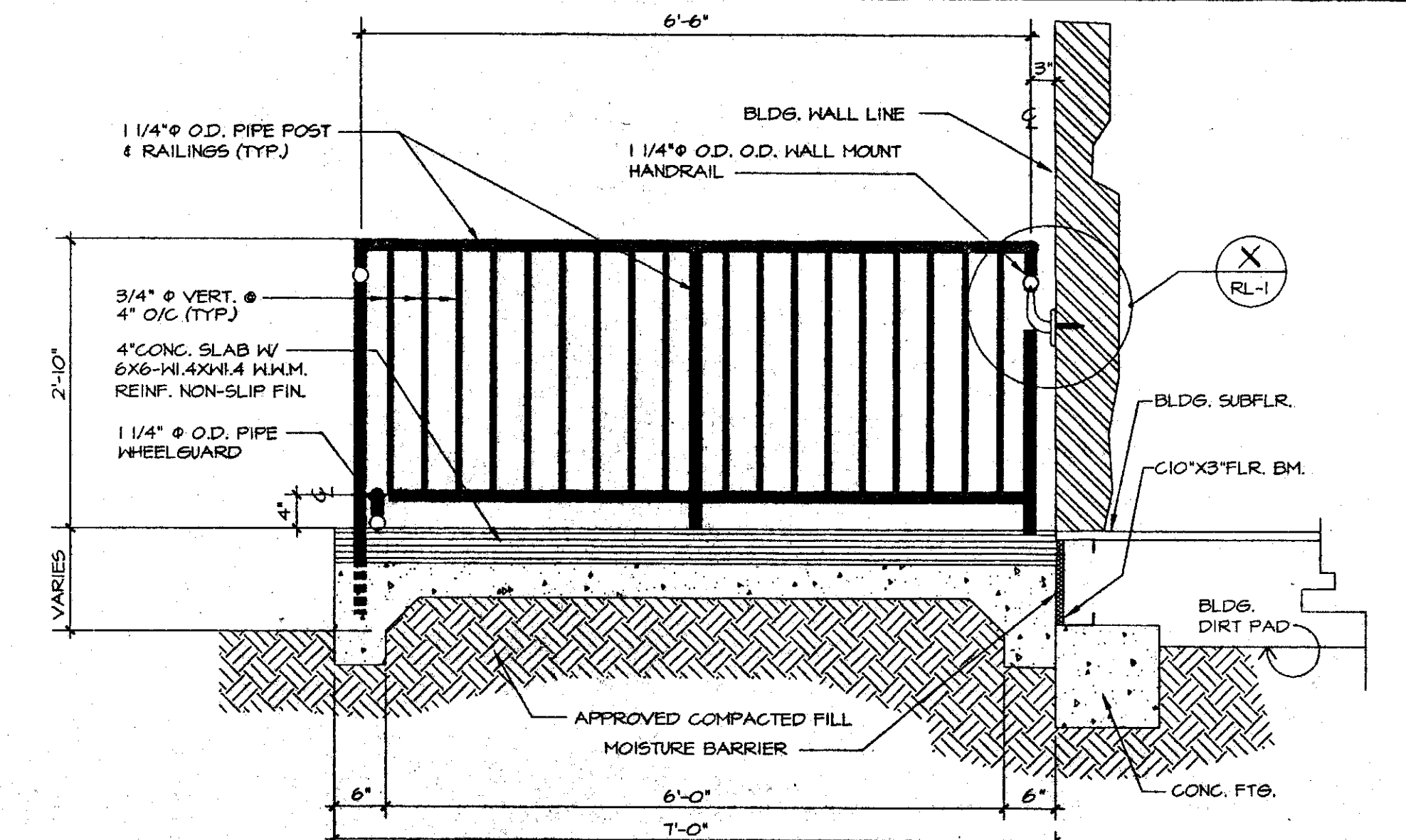
ELEVATION

SCALE 3/4"=1'-0"



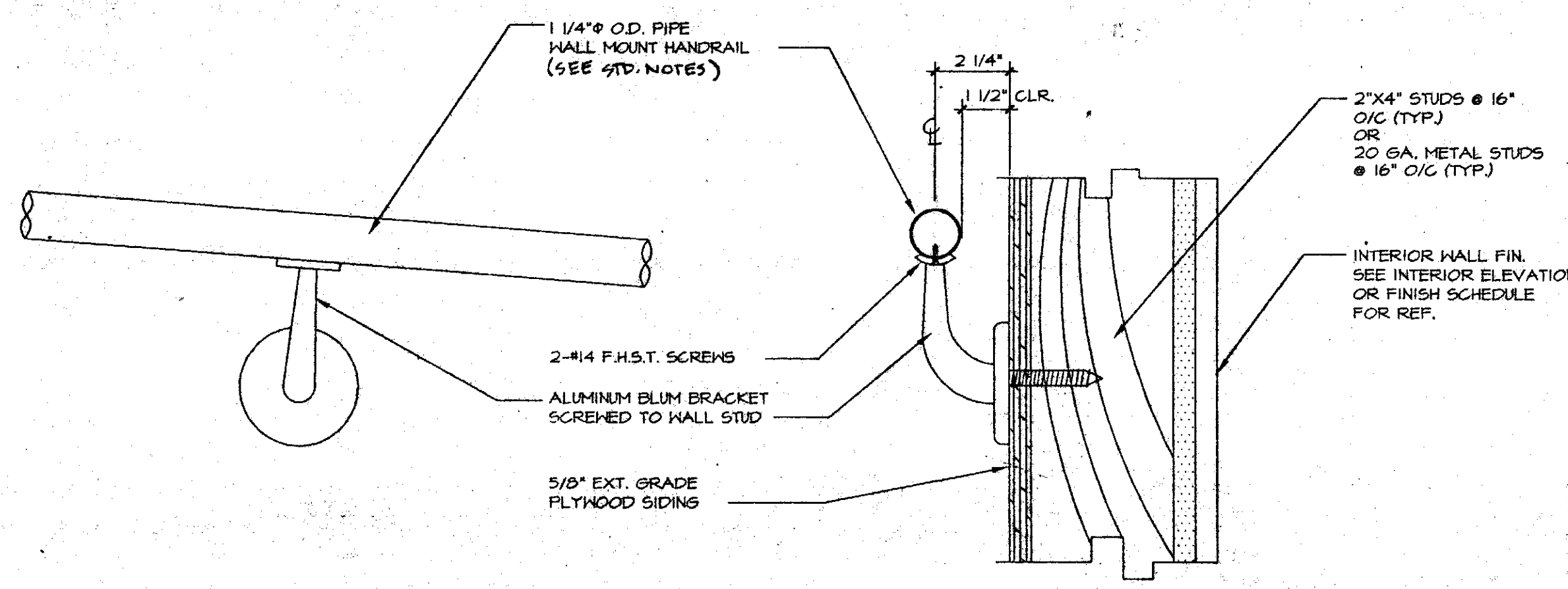
ELEVATION

SCALE 3/4"=1'-0"



SECTION

SCALE 3/4"=1'-0"



DETAIL (BRACKET CONNECTION TO WALL)

SCALE N.T.S.

- STANDARD NOTES:
1. FOR 20 OCCUPANTS, MAX. POST SPACINGS = 7'-0" O/C
  2. FOR 50 OCCUPANTS, MAX. POST SPACINGS = 4'-0" O/C
  3. ALL HANDRAILS & RAILINGS SHALL BE 1 1/4" STD. PIPE OR 1 1/2" x 1 1/2" x 16 GA.
  4. ALL POSTS SHALL BE 1 1/4" STD. - SCHED. 80 (X-STRONG) OR 1 1/2" x 1 1/2" x 11 GA.

SECTION

SCALE 3/4"=1'-0"

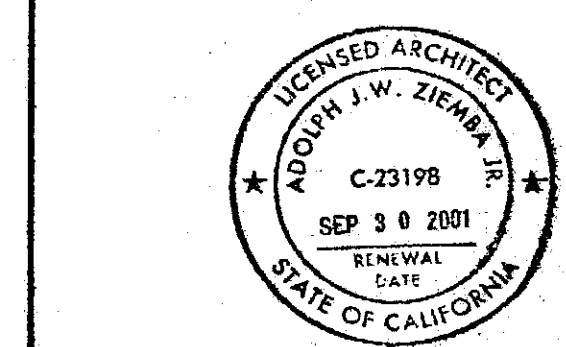
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.

STRUCTURAL ENGINEER ARCHITECT

PROFILE STRUCTURES, INC.  
CONTRACTOR'S LICENSE # 248071 B1  
13228 CARLISLE RD. SANTA FE SPRINGS CA 90470  
(562) 921-2251 FAX (562) 921-2253

30'x40'x50'x60'x 32' CLASSROOM BUILDINGS  
RIGID FRAME - BUILT-UP ROOF - WOOD/METAL STUDS  
SCALE NOTED  
DATE 5/17/99  
APPROVED BY  
DRAWN BY JVC  
REVISED 10/01/99  
JOB NO. M99-66  
DRAWING NUMBER RRL-1

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL.  
AC FLS SS  
DATE

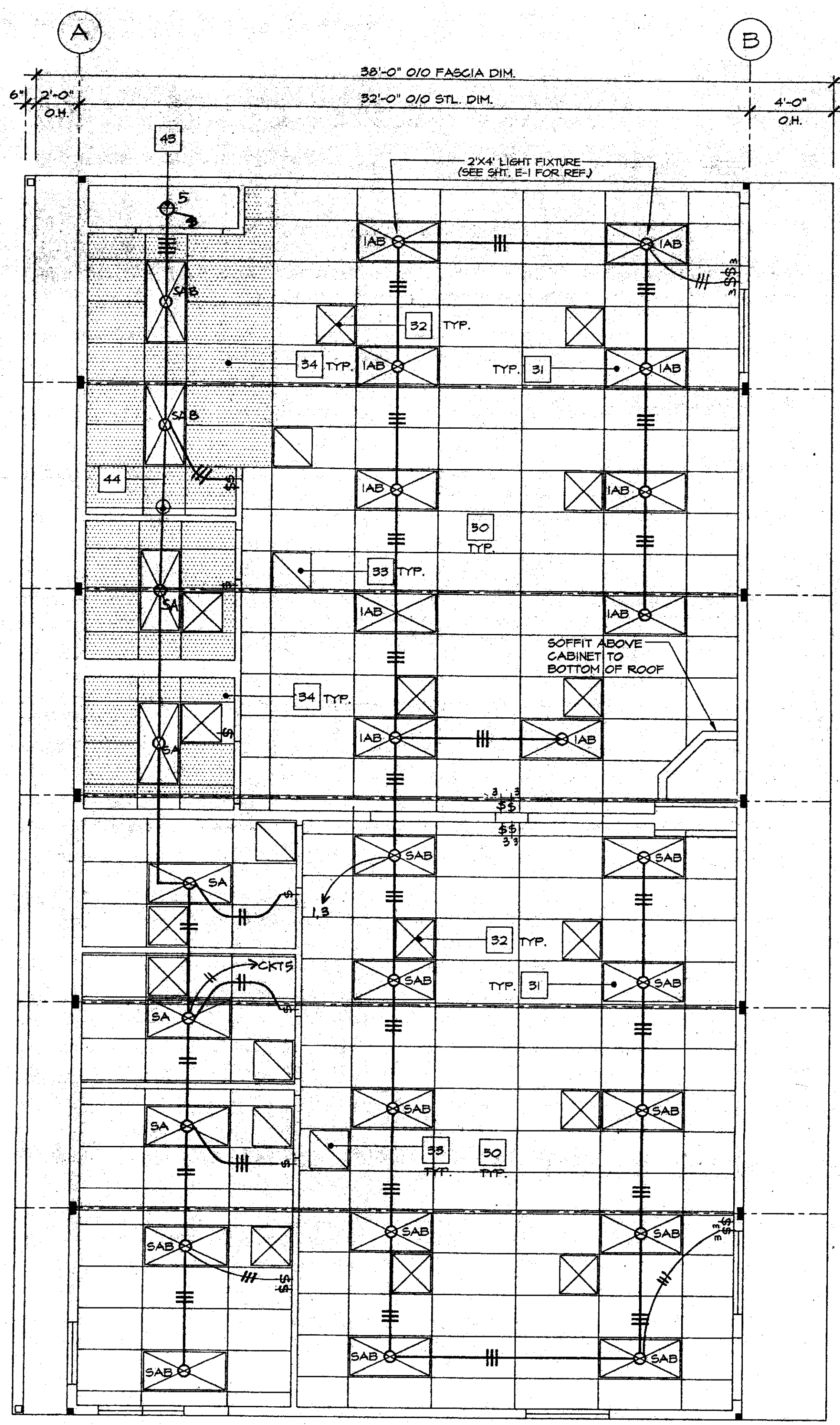


IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APPROV. 102932  
AD. FLS SS  
DATE NOV 17 1999

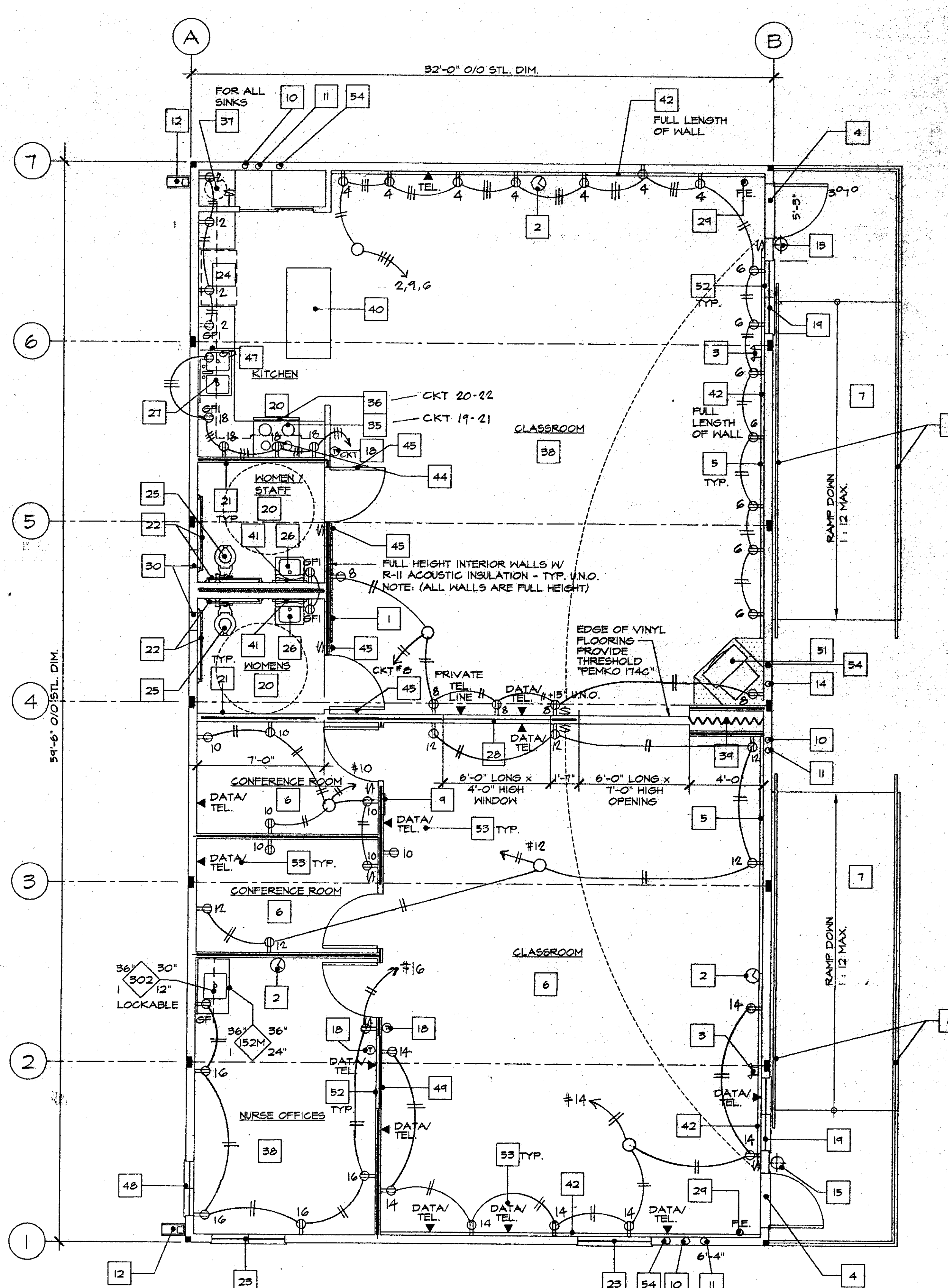
JAN 18 2000

REV. # DATE DESCRIPTION BY:





LIGHTING PLAN



POWER PLAN

NOTE:  
SEE SHT. A-1 FOR REFERENCE NOTE.

PANEL E1		VOLTAGE 120/208		TYPE		Murry MAIN MLO		BUS SIZE 200	
LTS	REC	WATTS	REMARKS	Circ. No.	Circ. No.	REMARKS	WATTS	REC	LTS
10		1280	Lights	1	2	Outlets	1260	7	
10		1280	Lights	3	4	Outlets	1260	7	
10		1165	Lights	5	6	Outlets	1260	7	
		2800	A.C. #1	7	8	Outlets	1260	7	
		2800	A.C. #1	9	10	Outlets	1260	7	
		2800	A.C. #1	11	12	Outlets	1260	7	
		2800	A.C. #2	13	14	Outlets	900	5	
		2800	A.C. #2	15	16	Outlets	900	5	
		2800	A.C. #2	17	18	Outlets	720	4	
		4800	cooktop	19	20	Oven	3600		
		4800	cooktop	21	22	Oven	3600		
		1500	water heater	23	24	Gerb. Disp.	800		
				25	26				
Total		31,625					18,080		

Total watts 49,705 + 931 LCL = 50,636 / 360 = 140A

Fixture Schedule	
Type A-	Metalux 2G432-A125-120 E882
Type B-	Kenall 3636
Type C-	H274 Halo

**GROUNDINGS OF METAL BUILDINGS**

1. GENERAL: PART 8 OF TITLE 24, CCR, REQUIRES PROPER GROUNDING OF ALL ELECTRICAL CIRCUITS, EQUIPMENT FOR PUBLIC SCHOOL, HOSPITAL, AND ESSENTIAL SERVICE BUILDINGS, REGARDLESS OF THE TYPE OF CONSTRUCTION.

2. METAL MODULAR BUILDINGS: WHEN METAL BUILDINGS ARE MADE OF COMPONENTS, EACH BUILDING COMPONENT, INCLUDING STEEL FRAMES, MUST BE ELECTRICALLY BONDED TOGETHER IN A MANNER ACCEPTABLE TO DIVISION. PAINT ON THE SURFACE OF STEEL WILL INHIBIT PASSAGE OF ELECTRICAL CURRENT; THEREFORE, BOLTED CONNECTIONS OF COMPONENT PARTS ARE NOT AN ACCEPTABLE ELECTRICAL BOND.

3. WOOD MODULAR BUILDINGS: IN WOOD FRAME MODULAR BUILDINGS, THE ELECTRICAL SYSTEMS MUST BE GROUNDED AS REQUIRED IN PART 8, TITLE 24, CCR.

4. GROUNDING: THE ELECTRICAL CIRCUITS ARE USUALLY PROPERLY GROUNDED; HOWEVER, IT IS ALSO NECESSARY TO INDEPENDENTLY GROUND THE STEEL FRAMES. THIS IS PARTICULARLY IMPORTANT WHEN THE BUILDING IS SUPPORTED ON A FOUNDATION MADE OF WOOD. AN ACCEPTABLE DETAIL IS SHOWN ON THE LEFT OF THIS SHEET.

5. PROJECT INSPECTOR TO WITNESS THE ELECTRICAL GROUNDING TEST.

ALL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER AND EACH BUILDING MUST BE INDEPENDENTLY GROUNDED. MULTIPLE BUILDINGS ARE NOT TO BE GROUNDED THROUGH THE ELECTRICAL SYSTEM. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER SET OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO SECTION 250-B AND 250-3.3 NATIONAL ELECTRIC CODE, FOR SPECIFIC GROUNDING REQUIREMENTS.

**SCHOOL EQUIPMENT ANCHORAGE**

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON GRADE 20% OF OPERATING HEIGHT

FIXED EQUIPMENT ON STRUCTURAL 30% OF OPERATING HEIGHT

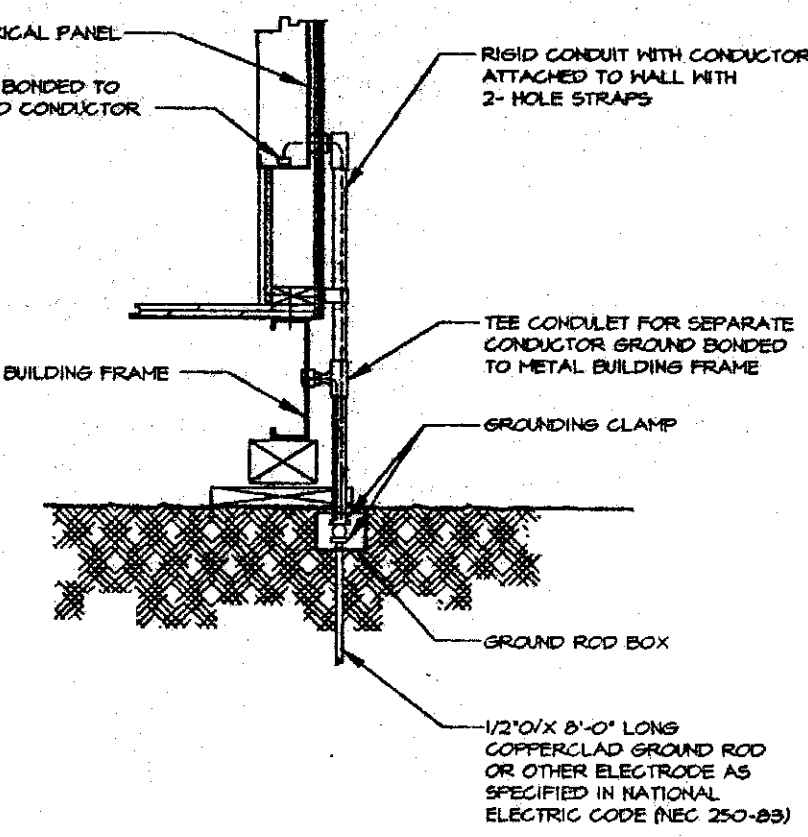
FOR FLEXIBLY MOUNTED EQUIPMENT USE 4X THE ABOVE VALUES.

SHALL TOLERATE VERTICAL FORCE USE 1/3 X HORIZONTAL FORCE.

HERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

**NOTES:**

1. THE TYPE OF FIRE ALARM SYSTEM AND/OR COMPONENTS MAY HAVE TO BE CHANGED DUE TO THE SITE EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL FOR THIS FIRE ALARM AT ALL SITES.



**ACCEPTABLE GROUNDING DETAIL**

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

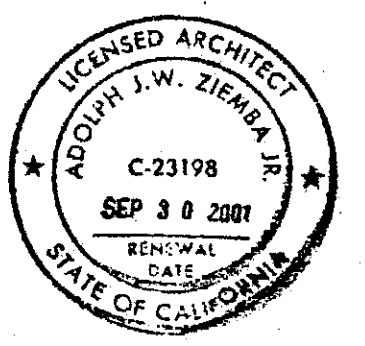
**NOTES:**

1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-145

2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE THROUGH AT LEAST ONE JOINT INTO THE SOIL IF AVAILABLE (NEC 250-81 & 250-83)

3. ALL JOINTS OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER. BUILDING ONLY IS NOT ACCEPTABLE BONDING.

4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (NEC 250-84)



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APPROVED: 102932  
DATE: NOV 17 1999

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.

PROFILE STRUCTURES, INC.  
CONTRACTOR'S LICENSE # 248051 B1  
13828 CARMENITA RD.  
SANTA FE SPRINGS CA 90670

60' x 32' CLASSROOM BUILDING  
RIGID FRAME - BUILT UP ROOF - WOOD STUDS

SCALE: NOTED  
DATE: 04/23/99  
APPROVED BY: RAVI/ZD  
REVIS: 11-01-99

SANTANA ALTERNATIVE EDUCATION CENTER  
ROCKLAND UNIFIED SCHOOL DISTRICT  
1860 NOVALES ST. ROCKLAND HEIGHTS, CA 97140

JOB NO. M99-66  
DRAWING NUMBER RE-1

DIVISION OF THE STATE ARCHITECT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES

APPL: \_\_\_\_\_  
AC: \_\_\_\_\_ FLS: \_\_\_\_\_ SS: \_\_\_\_\_  
DATE: \_\_\_\_\_

JAN 18 2000

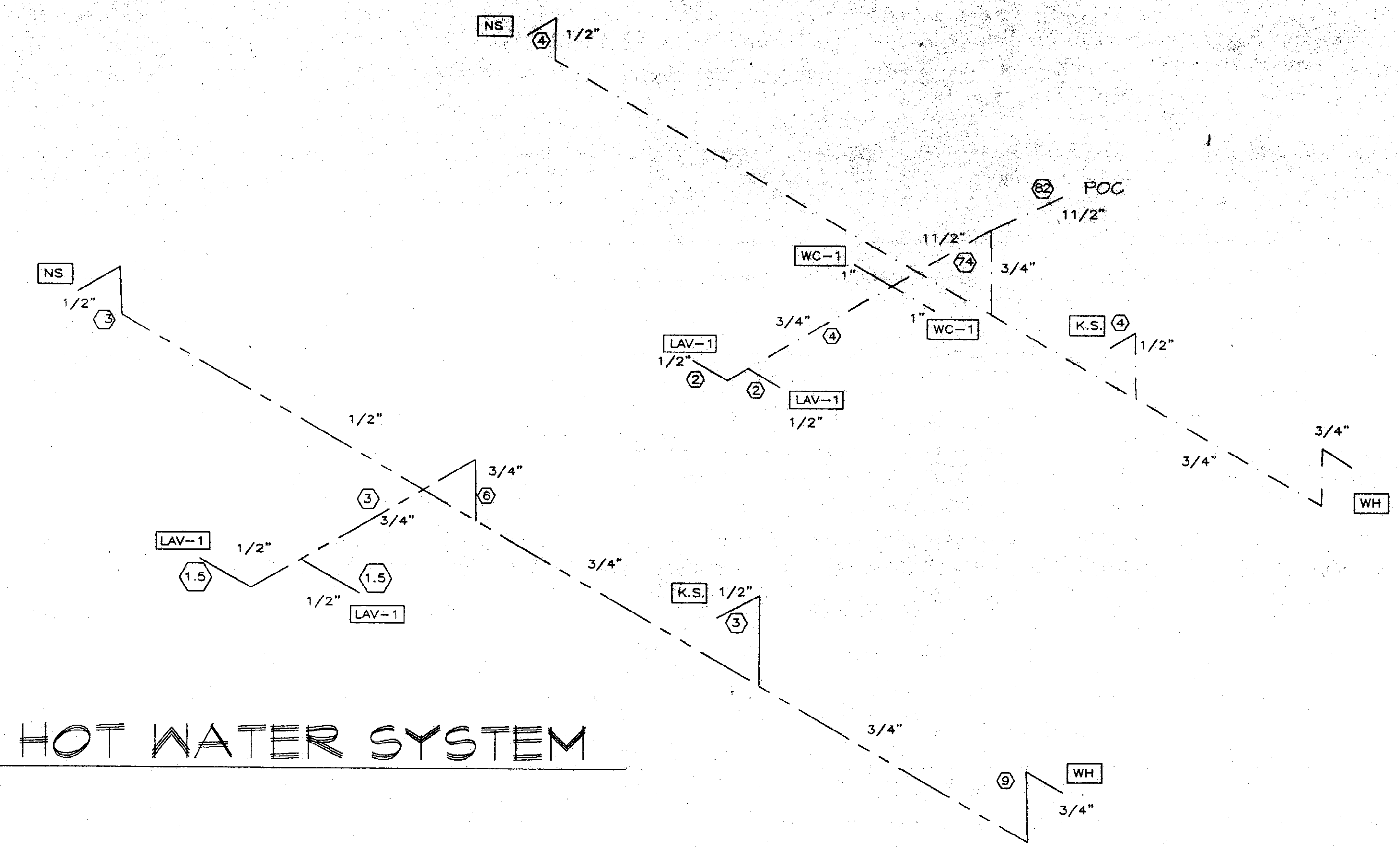
REV. # DATE DESCRIPTION BY



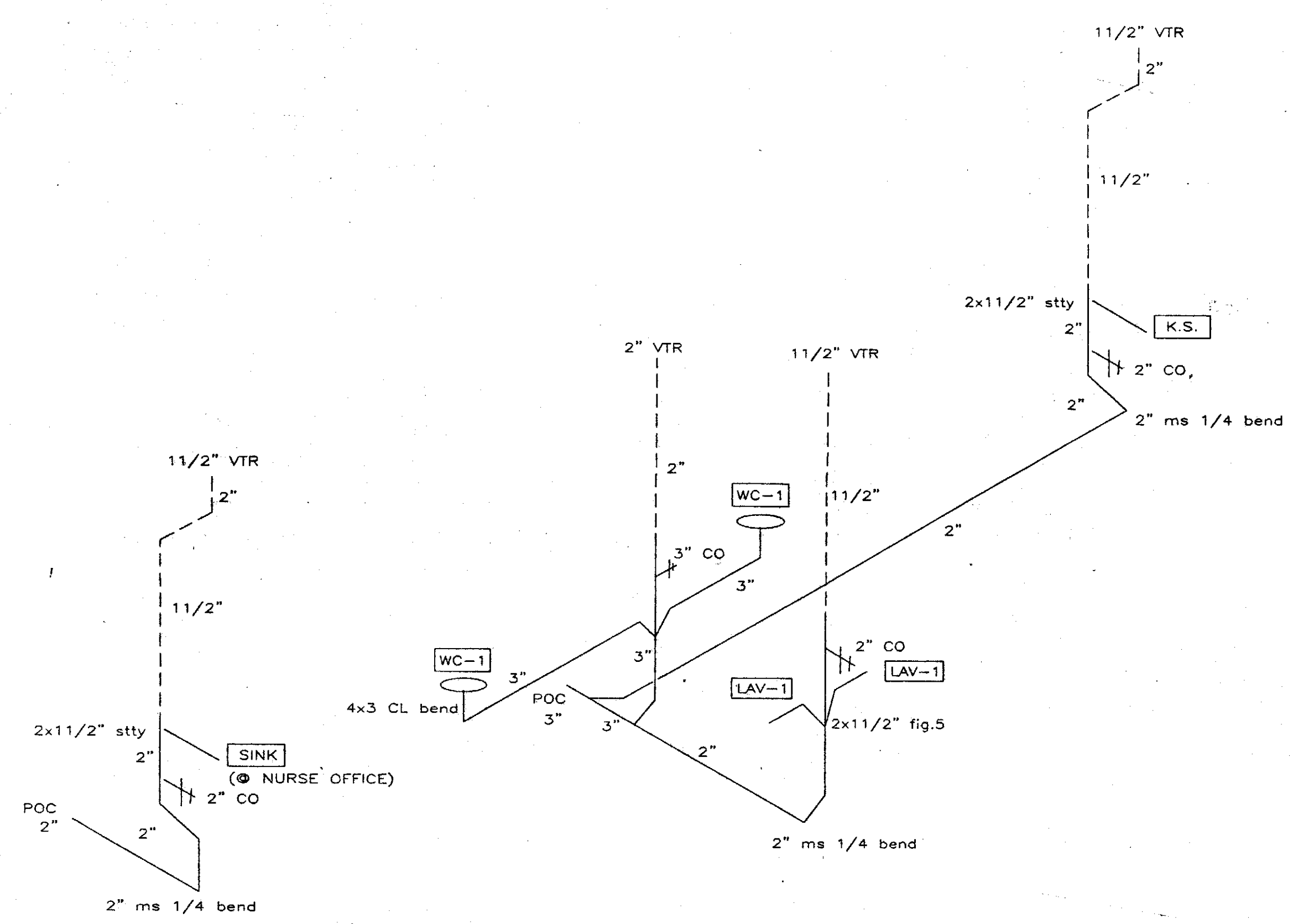




# COLD WATER SYSTEM



# HOT WATER SYSTEM



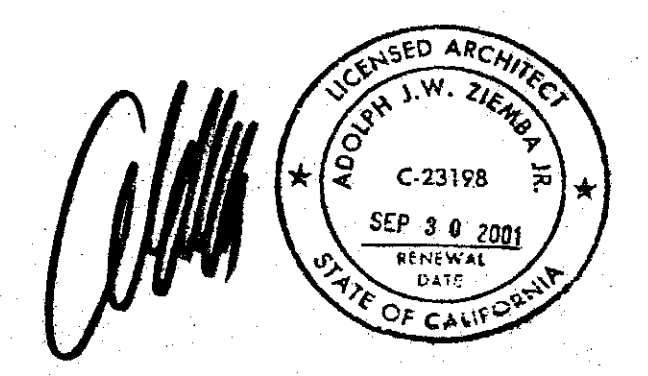
# WASTE & VENT SYSTEM

Pipe size	Flush Valve	Non/FV
1/2"	3	0
3/4"	11	0
1"	23	0
1 1/4"	52	
1 1/2"	117	
2"	318	

200' TDL • 46 PSI, 82 FIX. UNITS • 8' FPS

PLUMBING FIXTURE SCHEDULE	MFR/ MODEL #
WC-1 WATER CLOSET FLOOR MOUNTED FLUSH VALVE TYPE ADA COMPLIANT ADULT	AMERICAN STD. CADET NO. 304503 W/ SEAT
LAV-1 LAVATORY WALL MOUNT VITREOUS CHINA ADA COMPLIANT GRIAT AT ADA HEIGHT	AMERICAN STD. NO. 039002 LUCERNE 4 1/2" W/ SUBSEQUENT LAV/ADA/FANET JAL WHITE SERIES 700 AND CARBURE SUPPORT REGULATION TRAP
K.S. "LIFT" DEL. COMPARTMENT STAINLESS STEEL STAINLESS STEEL DRAIN CONSTRUCTION OF THE 304 SHT. 4 TOP SURFACES POLISHED TO A NON-POROUS HAND - BLENDING "LIFT" FIN IN HIGH LIGHTED BOWL. SELF-RISING TOP MOUNT DRIP RIM PLUS W/ 300 SERIES S.S. HOUSING CHANNELS	MODEL # DL - 189 J-GR 4 1/2" TO 6 1/2" TO ACCOMMODATE RE-INSTALLATION COMPLIANT W/ ADA REQUIREMENTS.
FAUCET SINGLE CONTROL KIT FAUCET BRASS BODY W/ METAL LEVER HANDLE WATERLESS CERAMIC DISC VALVE CARTRIDGE	MODEL # 4205A00 LESS HANDSPRAY 1/2" MALE TREADED CONNECTORS 4 NTS
FOOD WASTE DISPOSER SHALL BE "IN - SINK - BRATOR"	MODEL PRO-TI W/ 1/2 HP. MOTOR CORROSION PROTECTION SHIELD
SINK "LIFT" SINGLE BOWL 3 1/2" DIA. 18" DEEP DRAIN CONSTRUCTION OF TYPE 304 SHT. 4 TOP SURFACES POLISHED TO A NON-POROUS HAND BLENDING "LIFT" FIN IN HIGH LIGHTED BOWL. SELF-RISING TOP MOUNT DRIP RIM PLUS W/ 300 SERIES S.S. HOUSING CHANNELS	MODEL # SLX-2225-A-GR
WH AMERICAN WATER HEATER (PROLONGED) 6 GAL. CAPACITY STORAGE TYPE	MODEL # 781-080-055V

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APPR. 102933  
AC HS SS  
DATE NOV 17 2000



THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PROFILE STRUCTURES, INC. and are not to be reproduced, changed or copied in any form or manner, nor are they to be assigned to any third party without the written authorization of PROFILE STRUCTURES, INC.

<b>BRYDEN'S PLUMBING INC.</b> 2191 GLEN IVY DR. GLENDALE, CA. 91206 CONT. LIC. #482609 C-56 C-16	STRUCTURAL ENGINEER ARCHITECT	PROFILE STRUCTURES, INC. CONTRACTOR'S LICENSE # 248071 B1 13926 CARMENITA RD. (562) 921-2551 FAX (562) 921-2203 SANTA FE SPRINGS CA. 90670	SCALE NOTED DATE 10/06/99	APPROVED BY [Signature]	DRAWN BY REVISIONS
			PLUMBING LAYOUT ISOMETRIC PERSPECTIVE	JOB NO. M99-06	DRAWING NUMBER P-1

DIVISION OF THE STATE ARCHITECT IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES	APPL. _____ AC _____ FLS _____ SS _____ DATE _____	REV. # DATE DESCRIPTION BY
---	--	----------------------------

JAN 18 2000