1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETION OF ALL WORK SHOWN, PRESCRIBED OR REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICIT INDICATED IN THE CONTRACT DOCUMENTS.

2. DO NOT SCALE THE DRAWINGS.

GENERAL NOTES

- 3. DRAWINGS PROVIDE BY ENGINEERS / CONSULTANTS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL PLANS AND DRAWINGS. IN THE EVENT OF CONFLICTING STATEMENTS, INSUFFICIENT INFORMATION OR ERRORS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT; OBTAIN CLARIFICATION BEFORE ANY WORK IS BEGUN. WORK INSTALLED WHERE CONFLICTING CONDITIONS EXIST SHALL BE CORRECTED AT CONTRACTORS
- 4. ANY ITEMS INDICATED WITH (E) SHALL BE DEEMED TO BE EXISTING. ANY ITEMS INDICATED OTHERWISE SHALL BE CONSIDERED NEW WORK, AND SHALL BE PART OF THIS CONTRACT, UNLESS NOTED OTHERWISE
- 5. EXISTING CONDITION MAY NOT BE SHOWN EXACTLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES AND/OR OMISSIONS CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT THAT TIME, OR IMMEDIATELY UPON DISCOVERY
- 6. PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS FOR SECURING WORK PROPERLY AS IT IS INSTALLED: TRUE TO LINE AND LEVEL, PER CODE AND WITHIN RECOGNIZED INDUSTRY TOLERANCES IF NOT OTHERWISE INDICATED. ALLOW FOR EXPANSIONS AND BUILDING MOVEMENTS. PROVIDE UNIFORM JOINT WIDTH IN EXPOSED WORK, ORGANIZED FOR BEST POSSIBLE VISUAL EFFECT. REFER QUESTIONABLE VISUAL-EFFECT CHOICES TO ARCHITECT FOR FINAL DECISION
- 7. FINAL CLEANING MUST BE DONE TO THE OWNER'S SATISFACTION AND WILL INCLUDE BUT NOT LIMITED TO CLEANING OF EXISTING LIGHT FIXTURES AND LAMPS AND REMOVAL OF TEMPORARY PROTECTION DEVICES.
- ANY REQUIRED INTERRUPTION OF OR REMOVAL OF ANY UTILITY SERVICE SERVING THE EXISTING FACILITY SHALL NOT BE PERFORMED UNTIL A MINIMUM OF A ONE WEEK PRIOR NOTICE IS GIVEN TO THE OWNER BY CONTRACTOR. SUCH WORK AS RELATED TO THE NEW OR EXISTING WORK SHALL BE COORDINATED WITH THE OWNER AND APPLICABLE UTILITY COMPANY, AS MAY BE NECESSARY
- 9. INSPECTION OF CONDITIONS: INSPECT SUBSTRATE TO RECEIVE WORK, AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED, AND REPORT UNSATISFACTORY CONDITIONS. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AS DIRECTED
- 10. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE CBC, TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND REGULATIONS. NOTHING HEREIN SHALL BE
- INTERPRETED TO THE CONTRARY. 11. ARCHITECT WILL INTERPRET THE INTENT OF THE DOCUMENTS IN CASE OF POSSIBLE CONFLICT OR DISCREPANCY.
- 12. DETAILS NOTED AS "TYP" OR "TYPICAL" SHALL APPLY IN ALL CASES WHETHER OR NOT SPECIFICALLY REFERENCED.
- 13. WORKMANSHIP STANDARDS: REMOVE AND REPLACE WORK WHICH DOES NOT COMPL' WITH WORKMANSHIP STANDARDS AS SPECIFIED AND AS RECOGNIZED IN THE CONSTRUCTION INDUSTRY FOR APPLICATIONS INDICATED REMOVE AND REPLACE OTHER WORK DAMAGED OR DETERIORATED BY FAULTY WORKMANSHIP OR IT'S REPLACEMENT.
- 14. MANUFACTURER'S INSTRUCTIONS: WHERE INSTALLATIONS INCLUDE MANUFACTURERED PRODUCTS, COMPLY WITH MANUFACTURER'S APPLICABLE INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION, TO EXTENT THESE ARE MORE EXPLICIT OR MORE STRINGENT THAN REQUIREMENTS INDICATED IN CONTRACT DOCUMENTS.
- 15. SCHOOL MAY BE IN SESSION AND THERE MIGHT BE STUDENT ACTIVITIES HAPPENING DURING CONSTRUCTION. CONTRACTOR MUST BARRICADE HIS/HER AREA AND ALSO MUST TAKE ALL PRECAUTIONS TO PROTECT STUDENTS PER CBC. CHAPTER 33
- 16. MATCH EXISTING GRADE WHERE NEW ASPHALTIC CONCRETE IS TO MEET EXISTING ASPHALTIC CONCRETE.
- 17. MOUNTING HEIGHTS: WHERE MOUNTING HEIGHTS ARE NOT INCLUDED, MOUNT INDIVIDUAL UNITS OF WORK AT MOUNTING HEIGHTS PER CALIFORNIA TITLE 24, REFER QUESTIONABLE MOUNTING HEIGHT CHOICES TO ARCHITECT FOR FINAL DECISION.
- 18. PATCH AREAS WHERE ORIGINAL ARE DISTURBED AFTER INSTALLING NEW ITEMS, OR DEMOLITION.
- 19. MATERIALS: EXCEPT AS OTHERWISE INDICATED OR APPROVED BY OWNER, PROVIDE MATERIALS FOR CUTTING-AND-PATCHING WHICH WILL RESULT IN EQUAL -OR-BETTER WORK THAN WORK BEING CUT-AND-PATCHED IN TERMS OF PERFORMANCE CHARACTERISTICS AND VISUAL EFFECT WHERE APPLICABLE. USE MATERIALS IDENTICAL TO ORIGINAL MATERIALS WHERE FEASIBLE AND WHERE RECOGNIZED THAT SATISFACTORY RESULTS CAN BE PRODUCED THEREBY. REMOVE AND REPLACE WORK JUDGED BY ARCHITECT TO BE CUT-AND-PATCHED IN A VISUALLY UNSATISFACTORY OR OTHERWISE OBJECTIONABLE MANNER. RESTORE EXISTING FINISHES ALTERED BY THE NEW WORK ONTO RETAINED WORK ADJOINING, IN A MANNER WHICH WILL ELIMINATE EVIDENCE OF PATCHING.
- 20. GYPSUM BOARD, LATHING, PLASTERING AND SUSPENDED CEILING SYSTEMS SHALL CONFORM TO CHAPTER 25 OF TITLE 24, PART 2, UNLESS NOTED OTHERWISE.
- 21. ALL TRIM AND EXPOSED CORNER DETAILS SHALL HAVE MILTERED JOINT CONNECTIONS 22. FLOOR COVERING PREPARATION: CONTRACTOR SHALL EXAMINE EXISTING FLOOR SLAB
- AND DETERMINE THE ACCEPTABILITY TO RECEIVE ALL OF THE FINISH FLOORING MATERIALS AS DESCRIBED. CONTRACTOR SHALL PERFORM ADDITIONAL CLEANING, SCRAPING AND FILLING AS MAY BE NECESSARY FOR THE PROPER APPLICATION OF THE VARIOUS MATERIALS. PER MANUFACTURER'S RECOMMENDATIONS. SHOULD UNACCEPTABLE CONDITIONS EXIST.
- 23. PROVIDE BACKING IN WALLS FOR ALL WALL MOUNTED UNITS, ATTACHMENTS AND ACCESSORIES.
- 24. MAXIMUM EFFORT TO OPERATE INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. 25. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND
- 44" ABOVE FLOOR.
- 26. DURING PERIODS OF PARTIAL OR RESTRICTED USE OF A BUILDING OF FACILITY, THE ENTRANCES USED FOR PRIMARY ACCESS SHALL BE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS.

W 224th St Aoresby Dr So(Sepulveda Blvd Marriott Los Ange.. Courtyard by W 225th St W 226th St TORRANCE Wadine Circle W 227th St HEIGHTS CIVIC W 225th St W 227th P SOUTHWOOD. W 228th St Sharynne Lr SUNRAY **PALO DEL AMO** W 228th PI Reese Rd W 229th St W 230th St W 230th St Hickory Vanderhill Rd W 230th PI Levy Adult Center calle Mayor W 231st St W 234th St Torrance Health IPA Fujita St W 234th Pl W 234th F Torrance H Memorial SHEET INDEX

APPLICABLE CODES

2016 CALIFORNIA BUILDING CODE 2016 CALIFORNIA ELECTRICAL CODE 2016 CALIFORNIA MECHANICAL CODE 2016 CALIFORNIA PLUMBING CODE 2016 CALIFORNIA FIRE CODE

VICINITY MAP

SCOPE OF WORK

RELOCATE EXISTING 36X40 PORTABLE BUILDING FROM THE PLAYGROUND AREA TO THE DESIGNATED LOCATION AND PROVIDE ASSOCIATED SITE WORK, INCLUDING WOOD FOUNDATION, RAMP, STAIR AND LANDINGS.

PROJECT TEAM

ARCHITECT:

YNL ARCHITECTS, ylo@ynlarchitects.com

ELECTRICAL ENGINEER: MDC ENGINEERS, bas@mdceng.com

ADDITIONAL NOTES

1. 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, CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE OWNER IMMEDIATELY.

ARCHITECTURAL

A0.0	COVER SHEET AND GENERAL NOTES
A1.0	SITE PLAN
A3.0	ENLARGED SITE PLAN
A8.1	TYPICAL DETAILS

ELECTRICAL

E0.1 E0.2	ELECTRICAL NOTES & SYMBOL LIST ELECTRICAL SINGLE LINE DIAGRAM &
	DETAILS
E2.0	ELECTRICAL SITE PLAN
E2.1	ENLARGED PLAN ELECTRICAL
E2.2	ENLARGED PLAN FIRE ALARM

PLUMBING

PO.1	PLUMBING NOTES AND SCHEDULES
2.0	PLUMBING SITE PLAN

P2.1 ENLARGED PLAN PLUMBING

PC PORTABLE BUILDING DRAWINGS

A.0 A1.0 A2.0 A3.1 A4.0 A5.0 A6.0 A6.1 A7.1 A7.2	COVER SHEET FLOOR PLAN ROOF PLAN (DUAL SLOPE) EXTERIOR ELEVATIONS INTERIOR ELEVATIONS FINISH SCHEDULE ARCHITECTURAL DETAILS ARCHITECTURAL DETAILS REFLECTED CEILING PLAN REFLECTED CEILING PLAN
E2.0	ELECTRICAL PLAN
F1.2 F3.0	FOUNDATION PLAN WOOD SILL FOUNDATION DETAILS WOOD SILL
R1.0	RAMP / LANDING
R2.0	RAMP / STAIR DETAILS
R3.0	RAMP / LANDING
R4.0	RAMP / STAIR DETAILS
SA1.0	FLOOR FRAMING PLAN
SA1.1	FLOOR FRAMING PLAN

ROOF FRAMING PLAN

STRUCTURAL DETAILS

STRUCTURAL DETAILS

WALL FRAMING DETAILS

WALL FRAMING

FRAMING DETAILS

STRUCTURAL ELEVATIONS AND DETAILS

S2.0

S3.0

S3.1

S4.0

S5.0

S5.1

S5.2

architecture | interior ARCHITECT:

PROJECT:

ARCHITECT

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501

REVISIONS:

DATE ISSUED:

2019-06-18

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PROJECT NAME:

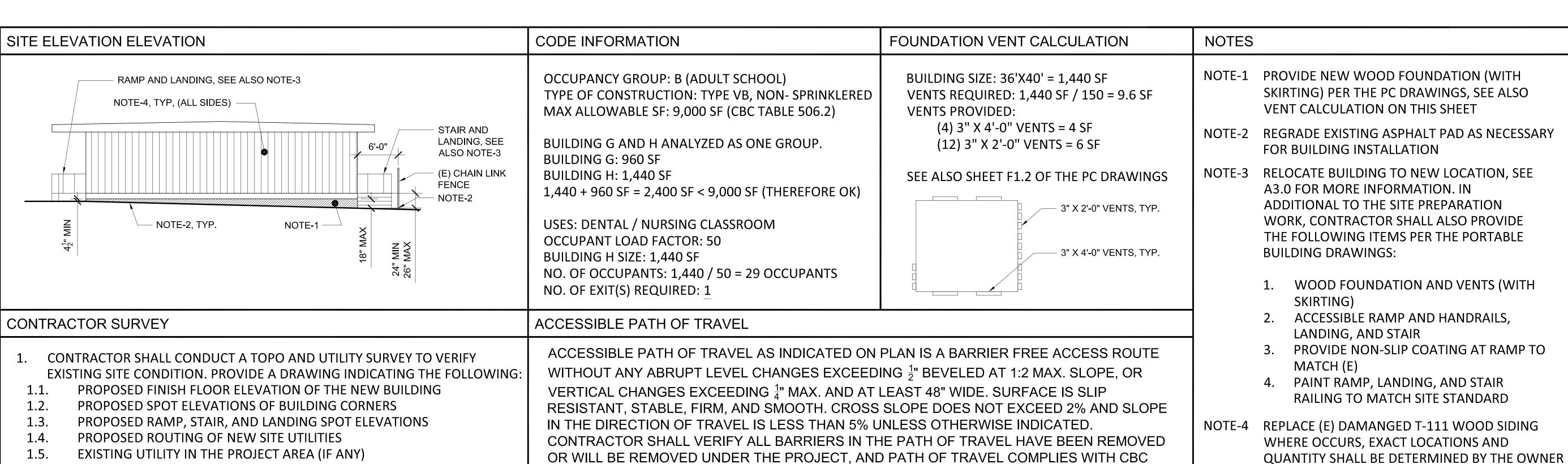
LEVY ADULT SCHOOL PORTABLE

OF THESE RESTRICTIONS, COPYRIGHT 2019

BID SET SHEET TITLE

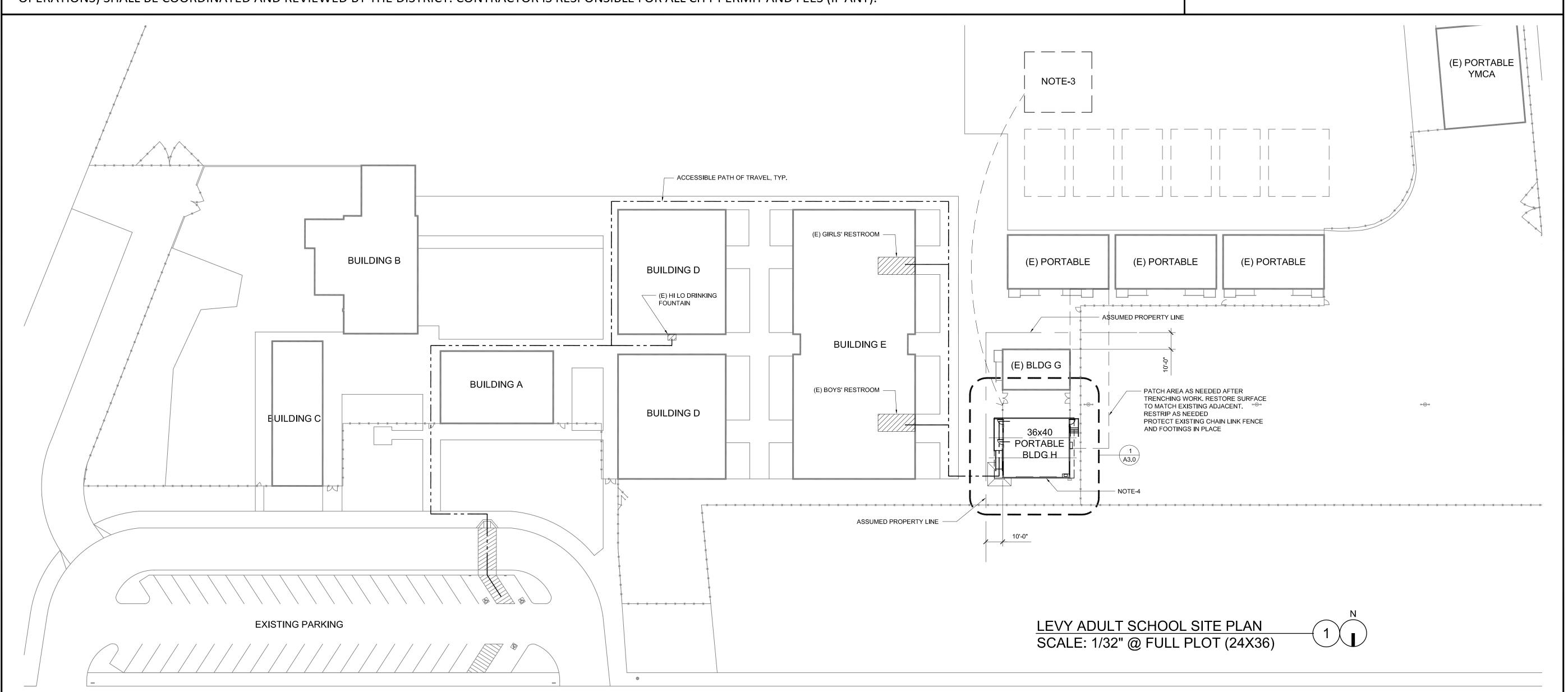
COVER SHEET AND GENERAL **NOTES**

SHEET NO:



GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS IN THE FIELD PRIOR TO SCHEDULING THE BUILDING DELIVERY. ALL METHODS OF DELIVERY (INCLUDING BUT NOT LIMITED TO CRANE OPERATIONS) SHALL BE COORDINATED AND REVIEWED BY THE DISTRICT. CONTRACTOR IS RESPONSIBLE FOR ALL CITY PERMIT AND FEES (IF ANY).



ARCHITECT:



ARCHITECT:



PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

IN THE FIELD. PAINT EXTERIOR OF BUILDING,

INCLUDING, SIDING, CHANNELS, VENTS, DOOR,

FRAME, GUTTER, SOFFIT, FASCIA, ETC. DO NOT

PAINT OVER EXISTING TAGS AND HVAC UNIT

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE. CA 90501

DATE ISSUED:

REVISIONS:

2019-06-25

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PROJECT NAME:

SCHOOL PORTABLE

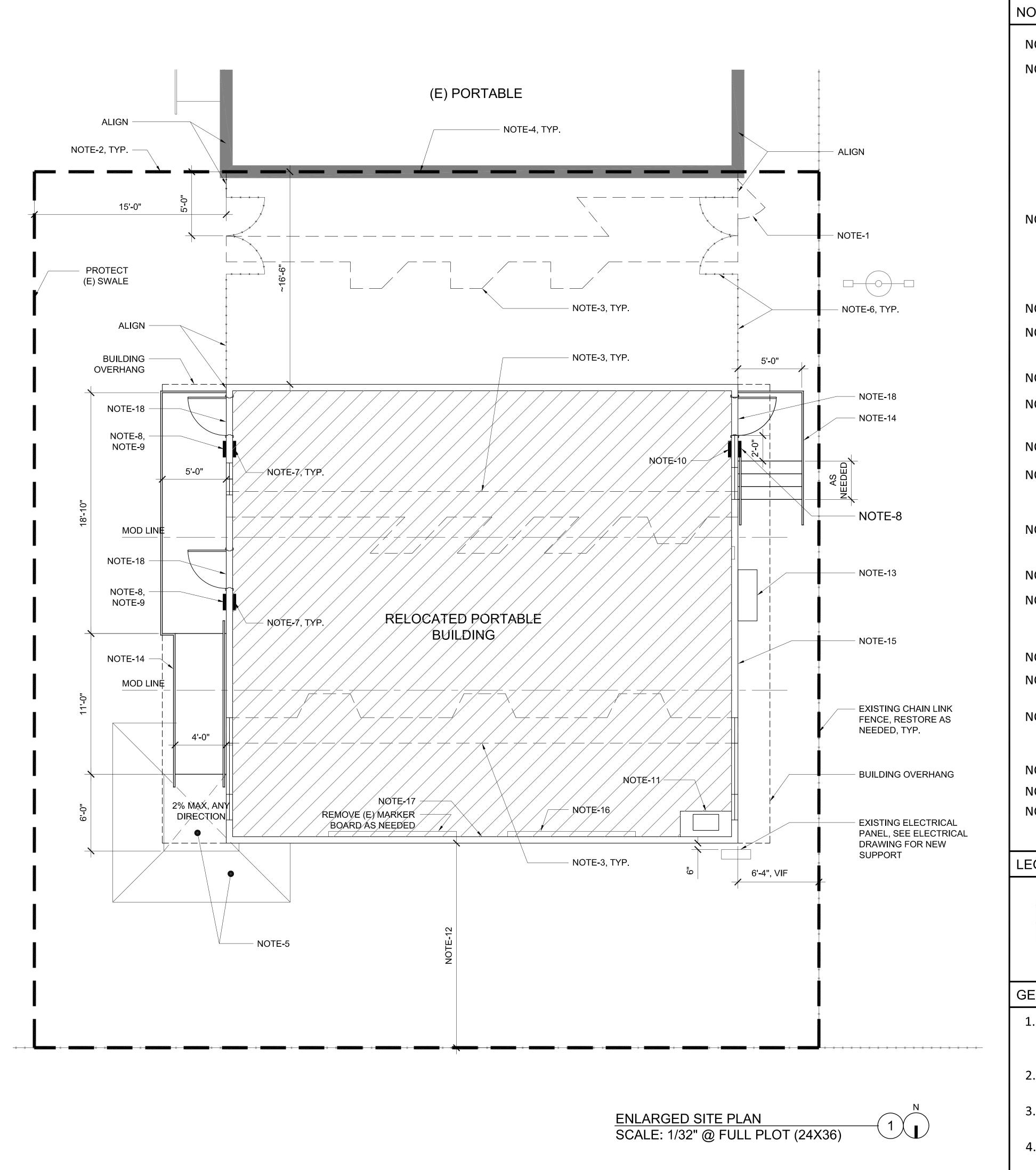
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SHEET TITLE

SITE PLAN

SHEET NO:

A1.0



NOTES

- NOTE-1 DEMOLISH EXISTING CHAIN LINK GATE AND FENCE
- NOTE-2 CONTRACTOR SHALL PREPARE THE AREA FOR MODULAR BUILDING INSTALLATION. REMOVE (E) AC PAVING (AS NEEDED TO ACHIEVE NEW GRADING), CLEAR EXISTING DEBRIS, REMOVE AND CAP EXISTING ABANDONED UTILITIES. RE-GRADE AREA AND PROVIDE NEW AC PAVING AS NEEDED FOR NEW MODULAR BUILDING. PROVIDE CALTRAN TYPE II ROAD SLURRY FOR EXPOSED SURFACE (EXCEPT AREA DIRECTLY UNDER BUILDING). CONTRACTOR SHALL GRADE THE AREA TO MAINTAIN A POSITIVE DRAINAGE TO THE EXISTING ADJACENT STORM WATER SYSTEM.
- NOTE-3 CONTRACTOR SHALL REMOVE ALL DEBRIS AND ABANDONED UTILITIES, EXCAVATE AND PREP THE TRENCH BOTTOM TO RECEIVE BACKFILL. FILL EXISTING TRENCH WITH 2 SACK SLURRY OR COMPACTED FILL PER DETAIL 3
- NOTE-4 DO NOT BLOCK EXISTING VENTS
- NOTE-5 RAMP BOTTOM LANDING AND TRANSITION, SEE
- NOTE-6 CHAIN LINK FENCE AND GATE, SEE
- NOTE-7 EXISTING "EXIT RAMP DOWN" SIGN, VERIFY IN FIELD, PROVIDE IF MISSING
- NOTE-8 PROVIDE ROOM SIGN, SEE A8.1
- NOTE-9 PROVIDE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN PER PORTABLE BUILDING DRAWING SHEET A5.0
- NOTE-10 PROVIDE "NOT AN EXIT" SIGN, SEE A8.1
- NOTE-11 ACCESSIBLE SINK AND BASE CABINET, SEE \A8.1/
- NOTE-12 LOCATE NORTH END OF THE BUILDING BASE ON THE LOCATION OF EXISTING ELECTRICAL PANEL, VERIFY EXACT DIMENSION IN FIELD
- NOTE-13 PROVIDE AC UNIT DRYWELL AND RAILING, SEE
- NOTE-14 PROVIDE ACCESSIBLE RAMP, LANDING AND STAIR PER DETAILS ON PORTABLE BUILDING DRAWING SHEETS R1.0, R2.0, R3.0 AND R4.0
- NOTE-15 PROVIDE WOOD FOUNDATION WITH \(\frac{3}{8}\)" SKIRTING PER PORTABLE BUILDING DRAWINGS SHEETS F1.2 AND F3.0. SEE ALSO SHEET A1.0 FOR VENT CALCULATIONS.
- NOTE-16 MARK BOARD TO MATCH (E)
- NOTE-17 PROVIDE BLOCKING FOR TV MOUNT, SEE A8.1
- NOTE-18 PROVIDE PEMKO ACCESSIBLE THRESHOLD (ALUMINUM). VERIFY EXACT DIMENSIONS (INCLUDING WIDTH) IN THE FIELD

LEGEND



REMOVE (E) CARPET FLOORING AND BASE AND PREP EXISTING SUBFLOOR TO RECEIVE NEW VCT FLOORING AND BASE. **DISTRICT STANDARD:**

ARMSTRONG FLOORING - CAMEL BEIGE 51805 INSTALL PER MANUFACTURER'S INSTRUCTIONS

GENERAL NOTES

- 1. REPLACE (50) EXISTING ACOUSTICAL CEILING TILE (STYLE AND TYPE TO MATCH EXISTING). CONTRACTOR SHALL IDENTIFY EXACT LOCATIONS IN THE FIELD. TURN OVER UNUSED TILES TO THE DISTRICT.
- 2. REMOVE ALL (E) POWER POLES, VERIFY EXACT LOCATIONS AND QUANTITY IN THE FIELD.
- 3. REPLACE DAMAGED T111 WOOD SIDING. VERIFY EXACT LOCATIONS IN THE FIELD. QUANTITY AS DIRECTED BY THE DISTRICT.
- 4. PATCH AND/OR REPLACE AND PAINT ALL EXISTING INTERIOR VINYL TACKBOARD.



ARCHITECT:



PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

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PROJECT NAME:

LEVY ADULT SCHOOL PORTABLE

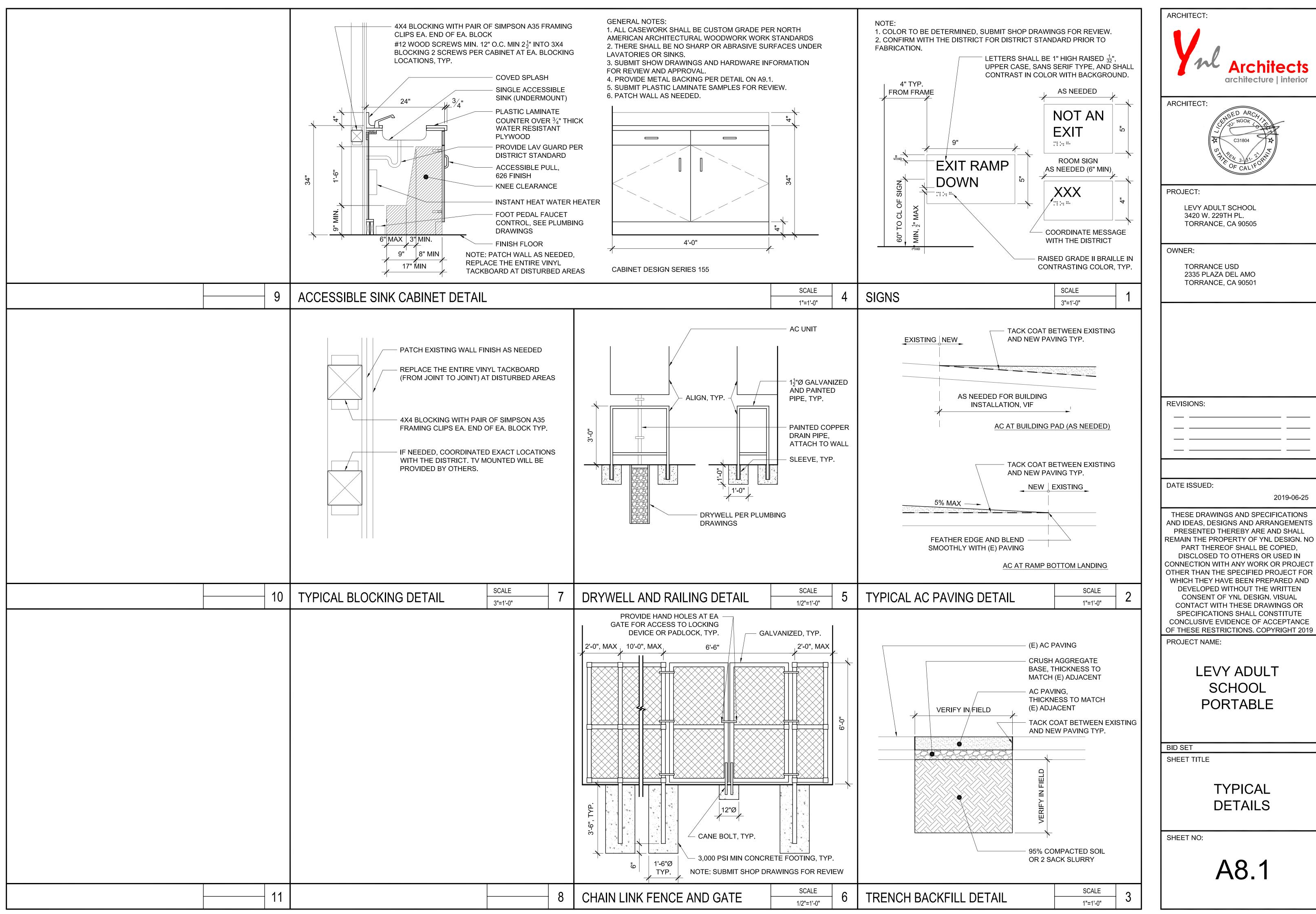
BID SET

SHEET TITLE

ENLARGED SITE PLAN

SHEET NO:

A3.0



ELECTRICAL NOTES

- NOTE: THIS DOCUMENT FORMS A PART OF THE SPECIFICATIONS AND SHALL BE CONSIDERED THE SAME AS IF ATTACHED THERETO.
- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. FURNISH LABOR, MATERIALS AND TOOLS NECESSARY AND INSTALL APPARATUS, MATERIALS, AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.
- BEFORE SUBMITTING THE BID PROPOSAL, VISIT THE JOB SITE AND FULLY ACQUAINT WITH THE EXISTING JOB CONDITIONS, AND SCHOOL LOW VOLTAGE SYSTEMS . VERIFY EXISTING AND NEW REQUIREMENT, INCLUDING NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS. PANELS. DISCONNECT SWITCHES CABLES, ETC., WHETHER SHOWN ON DRAWINGS OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND OPERABLE SYSTEMS WITHOUT ADDITIONAL COST TO THE DISTRICT.
- 3. EXAMINE ALL CONTRACT DOCUMENTS AND VERIFY ALL DIMENSIONS AND CONDITIONS, EXISTING SITE CONDITIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING, ANY WORK, DEVICES, CONTROLS, SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF EQUIPMENT AND DEVICES. AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING, AND THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE EXISTING FIELD CONDITIONS AND SPACE WILL PERMIT.SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF THE DISTRICT FOR VISUAL AND STRUCTURAL REASONS. THE DRAWINGS DO NOT SHOW NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL ARCHITECTURAL DIMENSIONED CONSTRUCTION DRAWINGS FOR DIMENSIONS
- 4. ARRANGE FOR INSPECTION WITH IOR AND TESTS IN CONNECTION THEREWITH, COMPLY WITH 2016 C.E.C CODES. BEFORE THE WORK IS ACCEPTED, PRESENT TO THE DISTRICT SIGNED CERTIFICATE OF FINAL INSPECTION FROM I.O.R.
- THE ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PREVAILING LATEST ADOPTED 2016 CALIFORNIA ELECTRICAL CODE, T-24 PART 3 REGULATION AND ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
- 6. ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC, STUDENTS AND EMPLOYEES.
- 7. WHEN CONCRETE WORK IS INCLUDED IN THE SCOPE OF WORK, THE MATERIALS, PROPORTIONING, MIXING, CONVEYING, PLACING, CURING AND PROTECTION OF THE CONCRETE WORK SHALL BE IN ACCORDANCE TO AMERICAN CONCRETE INSTITUTE "ACI" STANDARD 301.
- 8. UNLESS OTHERWISE SHOWN OR SPECIFIED, CONDUIT SHALL BE CONCEALED IN WALLS OR ABOVE FINISHED CEILING.
- A. CONCEALED CONDUIT SHALL BE RUN IN AS DIRECT A LINE AS POSSIBLE.BENDS SHALL BE OF LONG SWEEP TYPE. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO, OR AT RIGHT ANGLES WITH THE LINES OF THE BUILDING.BEND SHALL BE FREE FROM
- DENTS OR FLATTENING.CONDUIT SHALL BE SUPPORTED AND SECURELY FASTENED. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM BEFORE WIRE OR CONDUCTORS ARE PULLED IN.
- CONDUIT SHALL BE INSTALLED ENTIRELY FREE FROM OTHER PIPING, VALVES OR OTHER MECHANICAL EQUIPMENT. POCKETS OR TRAPS IN ALL CONDUIT RUNS WHERE MOISTURE MAY COLLECT SHALL BE AVOIDED.WHERE DIPS ARE UNAVOIDABLE, A
- PULL BOX SHALL BE LOCATED AT EACH LOW POINT IN ORDER TO PROVIDE A MEANS OF DRAINAGE. THE CONDUIT SYSTEM AND CONDUCTING WIRE ENCLOSURES SHALL BE SECURELY BONDED TOGETHER SO THAT FOR EVERY CONDUCTING
- G. DOUBLE LOCKNUTS SHALL BE USED FOR SECURING CONDUIT AT A BOX OR CABINET UNLESS A THREADED HUB IS PROVIDED AS PART OF THE BOX OR CABINET.
- H. RUNNING THREADS SHALL NOT BE USED ON CONDUIT FOR CONNECTION AT COUPLINGS. WHERE 2 LENGTHS OF CONDUIT MUST BE COUPLED TOGETHER, AND IT IS IMPOSSIBLE TO SCREW BOTH LENGTHS INTO AN ORDINARY COUPLING, THEN THE "ERICKSON" TYPE OF COUPLING MUST BE USED IN ORDER TO PROVIDE A RIGID JOINT THAT WILL BE BOTH MECHANICALLY AND ELECTRICALLY EFFECTIVE. COUPLING AND CONNECTORS USED ON ELECTRIC METALLIC TUBING SHALL BE, COMPRESSION TYPE. SET SCREW TYPE NOT
- ACCEPTABLE. J. CONDUIT SHALL BE TERMINATED WITH SUITABLE BUSHINGS OR EQUIVALENT DEVICES WHICH SHALL PROTECT THE ENCLOSED WIRES FROM ABRASION AT THE ENDS
- K. ALL BUILDING INTERIOR CONDUIT SIZES SHALL BE MINIMUM OF 3/4" AND 1" MINIMUM FOR UNDERGROUND UNLESS OTHERWISE NOTED, FOR ALL UNDERGROUND CONDUITS IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE "C.E.C". L. PROVIDE SLEEVES, NIPPLES, AND COUPLINGS REQUIRED FOR THE INSTALLATION OF CONDUIT. SLEEVES SHALL PROJECT 2" ABOVE
- M. FLEXIBLE CONDUIT SHALL BE PROVIDED TO CONNECT MOTORS ON SLIDING BASES, TO CONTROLS, AND TO VIBRATING EQUIPMENT. N. PROTECT CONDUIT FROM DAMAGE AND THE ENTRANCE OF WATER AND FOREIGN MATTER DURING THE CONSTRUCTION PERIOD. WATERTIGHT STOPPERS OR CAPS SHALL BE INSTALLED IMMEDIATELY AFTER THE CONDUIT IS INSTALLED, REMOVED ONLY WHEN WIRE IS
- O. THOROUGHLY CLEAN THE INSIDE OF CONDUITS TO ASCERTAIN FOREIGN MATERIALS ARE REMOVED BEFORE PULLING WIRE OR CABLE.
- 10. PROVIDE AND INSTALL HANGERS, SUPPORTS AND FASTENERS AS REQUIRED.
- A. INSTALLATION OF HANGERS AND SUPPORTS SHALL BE MADE TO THE WOOD FRAMED STRUCTURE.
- FASTENERS FOR SUPPORTS AND HANGERS SHALL BE MADE WITH BEAM CLAMPS, U-BOLTS, OR OTHER APPROVED DEVISES. INSTALLATION SHALL BE SUCH SO AS TO SUPPORT CONDUIT WITHOUT SAGGING AND SHALL BE CLEAR OF THE WORK OF OTHER
- TRADES. PROVISION FOR EXPANSION AND CONTRACTION SHALL BE MADE. D. SPACING OF SUPPORTS FOR EXPOSED HORIZONTAL CONDUIT RUNS SHALL BE AS FOLLOWS

COMPONENT IS PROVIDED WITH A LOW RESISTANCE PATH TO GROUND

SIZE OF CONDUIT (INCHES)	NUMBER OF CONDUITS IN RUN	LOCATION	MAXIMUM SUPPORT SPACING (FEET)						
3/4	1 OR 2	1 OR 2 ON A FLAT CEILING OR WALL							
3/4	3/4 UNDER OF SUPPORTS WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION								
3/4	3/4 3 OR MORE ANY LOCATION 1 & 2 1 OR 2 ON A FLAT CEILING OR WALL								
1 & 2									
1 & 2	WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS								
1 & 2	3 OR MORE	ANY LOCATION	10						

SIZE OF CONDUIT (INCHES)	MAXIMUM SUPPORT SPACING (FEET)
7 //	7

(1101123)	(1221)
3/4	7
1 AND 11/4	8
$1\frac{1}{2}$ AND 2	10

- F. ELECTRICAL ENCLOSURES SHALL BE WEATHERPROOF WHEN EXPOSED TO OUTDOORS OR WET AREAS.
- 11. EXACT LOCATION OF EQUIPMENT AND LIGHTING FIXTURES SHALL BE VERIFIED IN FIELD. COORDINATE INSTALLATION OF ELECTRICAL SYSTEM WITH EXISTING BUILDING STRUCTURES. PRIOR TO COMPLETION OF AFFECTED WORK, CONTRACTOR SHALL INSTRUCT THE DISTRICT ON THE USE AND MAINTENANCE OF THE INSTALLED SYSTEM.
- 12. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN. EXCEPT WHERE NOTED TO BE LARGER, MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 2 1/8" DEEP. JUNCTION BOXES SHALL BE LABELED WITH RESPECTIVE CIRCUIT
- 13. OUTLET BOXES SHALL BE FLUSH WITH THE FINISHED SURFACE OF WALLS AND CEILINGS OF COMBUSTIBLE MATERIALS.
- 14. OPENINGS IN BOXES, CONDUIT BODIES AND FITTINGS SHALL BE ADEQUATELY CLOSED.
- 15. SURFACE MOUNTED BOXES AND CABINETS MOUNTED IN WET AND DAMP LOCATIONS SHALL BE WEATHERPROOF AND SHALL HAVE AT LEAST 1/4 INCH AIR SPACE BETWEEN THE BOX AND MOUNTING SURFACE.
- 16. ENTRANCE TO ROOMS AND OTHER GUARDED LOCATIONS THAT CONTAIN LIVE PARTS SHALL BE MARKED WITH A CONSPICUOUS WARNING SIGN FORBIDDING UNQUALIFIED PERSONS TO ENTER.
- 17. CUT FLOORS, CEILINGS AND WALLS AS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. APPROVED PENETRATION THROUGH CONCRETE WALLS OR CEILINGS SHALL BE PROVIDED BY MEANS OF SLEEVES OR CORE DRILLING, CONTRACTOR SHALL COORDINATE WITH DISTRICT. CONDUITS SHALL NOT PENETRATE STRUCTURAL SLAB AND WALL. ALL WORK SHALL BE PATCHED AND REPAIRED AS DIRECTED BY
- 18. AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SIX (6) PRINTS OF ALL REQUIRED SHOP DRAWINGS, BROCHURES AND OTHER SATISFACTORY DESCRIPTIONS INDICATING MANUFACTURER, CATALOG NUMBER, DIMENSIONS AND PERFORMANCE OF THE EQUIPMENT.
- 19. USE "THNN/THWN" COPPER WIRES OR EQUAL FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR. SIZE PER C.E.C 250-122.
- 20. EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LABORATORY.

SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

- 21. THE NON-CURRENT CARRYING METALLIC PARTS OF ALL ELECTRICAL/FIRE ALARM EQUIPMENT AND ENCLOSURES, INCLUDING CONDUITS, SUPPORTS, CABINETS, AND ASSOCIATED EQUIPMENT, WHICH ARE INSTALLED OR CONNECTED UNDER THIS CONTRACT, SHALL BE PROPERL'S GROUNDED BY CONNECTION TO THE GROUNDING SYSTEM, REGARDLESS OF WHETHER OR NOT THESE CONNECTIONS ARE SHOWN ON THE
- A. THE GROUNDING INSTALLATION SHALL HAVE PROVISIONS FOR BOTH SYSTEM AND EQUIPMENT GROUNDS AS DEFINED BY THE "C.E.C"
- THESE GROUNDING SYSTEMS ARE TO BE EFFECTIVELY INSULATED FROM EACH OTHER EXCEPT AT THE SERVICE CONNECTION. B. GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF "C.E.C" AND THE "NESC". LOCAL REQUIREMENTS OF THE
- C. IF WATER SERVICE IS USED FOR GROUNDING POINT, IT SHALL BE ASCERTAINED THAT THE WATER PIPING IS ELECTRICALLY CONTINUOUS AT JOINTS AND IS OF CONDUCTING MATERIAL. WATER PIPING WITH SWEATED JOINTS IN ELECTRICAL PATH SHALL HAVE SUCH JOINTS
- D. WHERE GROUND CABLES ENTER AND LEAVE FERROUS CONDUITS, THEY SHALL BE MECHANICALLY CONNECTED TO THE END OF THE RACEWAY, WHERE GROUND CABLE PASSES THROUGH FERROUS FLOORING OR FRAMING, CONNECTION SHALL BE MADE TO SUCH METAL.

INSPECTION AUTHORITY HAVING JURISDICTION SHALL GOVERN IN ALL MATTERS OF INTERPRETATION.

- 21. THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSED BY HIS WORKMEN, AND SHALL REMOVE SUCH ACCUMULATIONS FROM THE BUILDING, SITE AND PROPERTY. JOB SITE
- 22. THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT AND MATERIAL INSTALLED UNDER THIS DIVISION. SURFACES OF EXPOSED CONDUIT SHALL BE CLEANED OF CEMENT, PLASTER, DIRT, RUST, GREASE, AND OTHER FOREIGN MATTER, AND BE LEFT IN CONDITION SUITABLE TO
- THE CONTRACTOR AND ACCEPTABLE FOR PAINTING.
- A. FOUIPMENT FURNISHED WITHOUT SHOP APPLIED FINISH SHALL BE FIFLD PAINTED.
- CONCEALED SURFACES OF METAL RACKS, FRAMES, AND BOXES SHALL BE PAINTED BEFORE MOUNTING. AFTER TESTS HAVE BEEN COMPLETED, CLEAN ALL EQUIPMENT WITH SOAP AND WATER, LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THE WORK.
- 23. A) WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, GROUNDS, SHORT CIRCUITS. AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, B) CONTRACTOR SHALL TERMINATE ALL CABLES & WIRES WITH TERMINAL LUGS (SUPPLIED BY CONTRACTOR)

- 24. INSULATION SHALL BE TESTED BEFORE AND AFTER INSTALLATION, AND BEFORE ENERGIZING A. RUBBER INSULATION SHALL BE TESTED FOR ACCEPTANCE BY APPLYING DIRECT CURRENT POTENTIAL NOT OVER 3 TIMES THE RATIO OF DIRECT CURRENT TO 60% OF EQUIVALENT "RMS" ALTERNATING CURRENT FACTORY TEST VOLTAGE FOR 5 MINUTES.
- VARNISHED CAMBRIC, PAPER, AND OTHER INSULATION SHALL BE TESTED IN THE MANNER DIRECTED BY AND UP TO THE LIMITS RECOMMENDED BY THE MANUFACTURER. . INSULATION RESISTANCE SHALL BE TESTED BY MEGGER OF NOT LESS THAN 600 VOLTS OUTPUT FOR CIRCUITS 480 VOLTS AND LESS
- ANY CIRCUIT SHOWING AN INSULATION RESISTANCE OF LESS THAN 1 MΩ SHALL BE INVESTIGATED AND THE WEEK POINT CORRECTED. CORRECT OR REPLACE ANY CIRCUIT DEFECTIVE OR GROUNDED AND MAKE WIRE-BY-WIRE TEST.
- 25. THE ENTIRE SYSTEM SHALL BE PLACED IN PROPER OPERATING CONDITION. A. OVERLOAD DEVICES SHALL BE ADJUSTED AND SET TO SUIT THE LOADS WHICH THEY CONTROL.
- B. LOADS ON ALL PARTS OF SYSTEMS SHALL BE BALANCED, INSOFAR AS IS PRACTICAL. ALL CHANGES SHALL BE MADE THAT ARE NECESSARY FOR ADJUSTING. SETTING AND BALANCING. PHASE ROTATION AT ALL BUSES, PANELS, SWITCHBOARD ETC., SHALL BE CHECKED TO SEE IF IT CONFORMS WITH RECOGNIZED STANDARDS
- GROUND TESTS SHALL BE MADE WITH THE 3 ELECTRODE "AC" OR "DC" VOLTAGE DROP METHOD TO ESTABLISH INITIAL READINGS FOR RECORDS, AND TO ASCERTAIN THAT THEY MEET DESIGN AND CODE REQUIREMENTS. CONTROL CIRCUITS SHALL BE CHECKED OUT FOR PROPER FUNCTIONING AND FAIL-SAFE QUALITIES.
- 28. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOME RUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.
- 29. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, WAREHOUSING AND ANY OTHER SERVICES REQUIRED TO COMPLETE THE WORK IN A TIMELY AND EFFICIENT MANNER.
- 30. INDIVIDUAL ITEMS OF WORK ARE DETAILED IN THE VARIOUS SECTIONS OF THIS SCOPE OF WORK. THE ATTACHED DRAWINGS AND THE
- NOTES AND LEGENDS ON THE DRAWING, THE CONTRACTOR IS RESPONSIBLE TO COMPLETE THE REQUIREMENTS FOUND IN ANY OF THE

31. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND

- TO MAINTAIN A SAFE CONSTRUCTION PROJECT. 32. THE CONTRACTOR SHALL REPAIR AND/OR REPAINT ALL AREAS DAMAGED BY DEMOLITION OR CONSTRUCTION AND FINISH TO MATCH EXISTING ADJACENT SURFACES.
- 33. THE CONTRACTOR SHALL SUBMIT "AS BUILT" DRAWINGS TO THE DISTRICT UPON COMPLETION OF CONSTRUCTION.

34. ALL WORK IS TO BE COMPLETED ON REGULAR HOURS AS DIRECTED BY THE OWNER.

- 35. CONTRACTOR SHALL WARRANTY MATERIALS AND INSTALLATION FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE..
- 36. ANY POWER OUTAGES SHALL BE APPROVED BY THE USER OF THE DISTRICT. A 7 DAY WRITTEN NOTICE SHALL BE GIVEN FOR ANY
- 37. CHECK PANEL SCHEDULES IDENTIFICATION FOR VALIDITY, RE-IDENTIFY ANY OR ALL CHANGES IN PANEL ON PANEL SCHEDULE CARD. WHILE PANEL COVER IS REMOVED TURN OFF ANY SPARE BREAKERS AND VERIFY SPARES ARE INDICATED ON PANEL SCHEDULE CARD.
- 38. USE "DYMO" LABEL ON FACE OF EACH CONTROL DEVICE AND JUNCTION BOXES INDICATING THE SOURCE PANEL AND CIRCUIT USED.
- 39. UPON COMPLETION OF THE WORK, COOPERATE IN CONDUCTING AN OPERATING TEST TO DEMONSTRATE THAT ALL EQUIPMENT IS
- OPERATING IN A SATISFACTORY MANNER. 40. CONTRACTOR SHALL CORE DRILL, SAW CUT, PATCH TO MATCH ADJACENT SURFACES, AND PAINT ALL EXPOSED CONDUITS & BOXES TO
- MATCH EXTERIOR FINISH. USE UL LISTED FIRE RATED CAULK FOR PENETRATION @ RATED FLOORS/WALL/CEILING.
- 41. ALL CONDUITS AND OUTLET BOXES SHALL BE SURFACE MOUNTED IN CMU, CONCRETE WALL.
- 42. FLECTRICAL COMPONENT ANCHORAGE NOTE ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13
- A. ALL PERMANENT EQUIPMENT AND COMPONENTS. B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH
- AS ELECTRICITY, GAS OR WATER. C. MOVABLE EQUIPMENT THAT IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS IS REQUIRED T BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND
- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH
- ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL

VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

- ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
- ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1615A.1.23, 1615A.1.24, 1615A.1.25, AND 1615A.1.26
- THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).
- COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE ELECTRICAL DISTRIBUTION SYSTEMS.
- 43. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE REGULATION (C.C.R).
- 44. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART1, TITLE 24, C.C.R).
- 45. 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 WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. SECTION 4-317, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R).
- 46. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.

INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.

GENERAL NOTES

- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS AND APPROVED SUBMITTALS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED AND NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION REQUIREMENTS AND SCOPE OF WORK.
- DEVICE LOCATIONS, ELEVATIONS, RISER DIAGRAMS, SCHEMATICS AND DETAILS SHOWN ON PLANS ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM AND THE DESIGN INTENT OF THE PROJECT. CONTRACTOR SHALL INSTALL DEVICES AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE I.O.R.
- PROVIDE ADDITIONAL BOXES AND ADAPTER PLATES AS REQUIRED FOR ALL SURFACE MOUNTED DEVICES. USE SURFACE MOUNTED WIRE MOLD IN AREA WHERE NO ACCESSIBLE CEILING SPACE IS AVAILABLE.
- ALLOW FOR RELOCATION OF DEVICES WITHIN THE SAME ROOM WHERE OBSTRUCTION ARE ENCOUNTERED (PROJECTOR SCRENES/EDUCATIONAL MATERIALS) THAT WILL PREVENT INSTALLING FIRE ALARM AND MASS NOTIFICATION DEVICES (STROBE, SPEAKER/STROBE) IN THE LOCATIONS SHOWN ON PLANS. SUBJECT TO REQUIRED DEVICE COVERAGE. DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.
- DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.
- ANY FIELD CONDITION MISREPRESENTED IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ENGINEER OF THE PROJECT.
- ANY DEVIATION FROM THESE PLANS NECESSARY DUE TO FIELD CONDITIONS MUST BE APPROVED BY DSA AND THE ENGINEER OF THE PROJECT. DETAILED AND RECORDED ON FIELD "AS-BUILT"
- ALL DEVICES IN THE FIRE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURER'S SPECIFICATION, AND SHALL ALSO BE INSTALLED IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF CURRENT TITLE 24, PART 9, CFC CHAPTER 9, CEC ARTICLE 760, AND NFPA 72, 2010 EDITION WITH CALIFORNIA AMENDMENT
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO MOST CURRENT CALIFORNIA BUILDING CODE (CBC) STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY THE CONTRACT DRAWINGS, WORKMANSHIP AND MATERIALS NOT IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS WHETHER SHOWN OR NOT ON THE DRAWINGS OR SPECIFIED ON THE CONTRACT TO MAKE THE FIRE ALARM SYSTEM FUNCTIONALLY OPERATIVE AND ACCEPTABLE TO ALL CONCERNED AUTHORITIES.
- PROVIDE ALL PATCHING, PAINTING AND FINISHES, INCLUDING BUT NOT LIMITED TO CEILING/WALL TILE REPLACEMENT, GYP BOARD ETC., FOR ALL DEVICES LOCATED IN EXISTING AREAS TO RESTORE TO ORIGINAL CONDITIONS AND MUST BE APPROVED AND COORDINATED WITH THE DISTRICT. EXISTING CONDITIONS SHALL BE DOCUMENTED WITH DIGITAL PHOTOGRAPHY PRIOR TO START OF WORK AND
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, INSTALLING CONTRACTOR SHALL SUBMIT STATEMENT OF COMPLIANCE AND REQUEST FINAL INSPECTION. PER CFC 901.2.1. A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR AND DISTRICT PERSONNEL
- 5. DSA, I.O.R., ENGINEER AND OWNER (SCHOOL DISTRICT) SHALL BE NOTIFIED A MINIMUM OF 48 HR. PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES PER NFPA 72, FIGURE 10.18.2.1.1, AND SYSTEM PROGRAMING FOR SUPERVISORY MONITORING PER CBC, SECTION 901.6.2. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO DSA, ENGINEER, OWNER, AND LOCAL FIRE AUTHORITY VIA THE PROJECT INSPECTOR.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM SYSTEM MONITORING CONTRACT OR
- FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH C.F.C CHAPTER 9 AND 14. PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA LOCAL FIRE AUTHORITY, AND DISTRICT.
- 20. PROVIDE FIRE STOPPING AND CAULKING TO MAINTAIN INTEGRITY OF THE EXISTING RATING.
- EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH.
- 22. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS. TITLE 24 C.C.R., PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- 23. ALL ROOF/ CANOPY CONDUITS SHALL BE SUPPORTED USING COOPER B-LINE DURA-BLOK ROOFTOP SUPPORT SYSTEM.

ELECTRICAL SYMBOLS LIST

- SYMBOLS REPRESENT EQUIPMENT AND OUTLET BOXES TO WHICH CONDUIT AND WIRE IS RUN FOR

- NOT ALL SYMBOLS APPLY TO THIS PROJECT; DISREGARD THOSE NOT USED ON PLANS AND IN

DUPLEX RECEPTACLE, WEATHER PROOF, WITH GROUND FAULT INTERRUPTER, WALL MOUNTED

DATA OUTLET, WALL MOUNTED WITH 1"C & SPECIFIED NUMBER OF CABLES (1D = 1 DATA),

PANELS IN THE IDF CABINET U.O.N. (1)DATA UNLESS OTHERWISE NOTED.

WIRELESS ACCESS POINT (WAP) WITH 1"C SPECIFIED NUMBER OF CABLES (1D = 1

MULTI CANDELA STROBE (15/30/75/110CD), WALL MOUNTED

MULTI CANDELA STROBE (15/30/75/95CD), CEILING MOUNTED

EXTERIOR LIGHT FIXTURE, WITH 90 MINUTE EMERGENCY BATTERY PACK

 $\frac{--}{-}$ Conduit stub-up with coupling flush in floor (to permit future removal)

 $\stackrel{\mathsf{A}-1,3}{\Longrightarrow}$ HOMERUN TO CIRCUITS #1 & #3 IN PANEL "A" (CROSSMARKS INDICATE NUMBER OF WIRES

THHN INSULATION &

250-122 CONCEALED IN

MULTI CANDELA SPEAKER/STROBE (15/30/75/110CD), WALL MOUNTED

MULTI CANDELA SPEAKER/STROBE (15/30/75/95CD), CEILING MOUNTED

DATA), CAT6 UTP CABLE TERMINATED ON RJ-45 JACK AT THE FACEPLATE, AND ON

PANELS IN THE IDF. U.O.N. (1)DATA UNLESS OTHERWISE NOTED.

CAT6 UTP CABLE TERMINATED ON RJ-45 JACK AT THE FACEPLATE, AND ON RJ-45 PATCH

DATA OUTLET, CEILING MOUNTED WITH 1"C & SPECIFIED NUMBER OF CABLES (1D = 1 DATA),

CAT6 UTP CABLE TERMINATED ON RJ-45 JACK AT THE FACEPLATE, AND ON RJ-45 PATCH

MOUNTING HEIGHTS IN SYMBOL LIST APPLY UNLESS OTHERWISE NOTED ON DRAWINGS.

JUNCTION BOX, WITH COVER (4" SQUARE, DEEP, WITH PLASTER RING)

DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED, GROUNDING TYPE

DUPLEX RECEPTACLE, WALL MOUNTED, GROUNDING TYPE

FUSED DISCONNECT SWITCH, MANUAL EXO, H.P. RATED

(20 AMP, 120 VOLT, COVER PLATE SPECIFIED)

(20 AMP, 120 VOLT, COVER PLATE SPECIFIED)

ELECTRICAL PANEL, SURFACE WALL MOUNTED

RJ-45 PATCH PANELS IN THE IDF. U.O.N.

FIRE ALARM REMOTE POWER SUPPLIES

UL 300 LISTED FIRE SUPPRESSION SYSTEM

EXTERIOR SPEAKER, WALL MOUNTED

ADDRESSABLE SUPERVISED CONTROL MODULE ADDRESSABLE RELAY CONTROL MODULE

SYSTEM RECORD DOCUMENT (SRD) CABINET

(FURNISHED BY PORTABLE MANUFACTURER)

CONDUIT FOR CIRCUIT

---- CONDUIT CONCEALED IN OR UNDER FLOOR: OR UNDERGROUND

#10 NUMBER INDICATES GAUGE OF WIRE IN CODE SIZED CONDUIT.

ADDRESSABLE MONITOR MODULE

MULTI-VOLTAGE RELAY MODULES

POST INDICATOR VALVE (PIV)

FIRE ALARM BELL

SPRINKLER FLOW

──── END OF LINE RESISTOR

SPEAKER, SURFACE CEILING MOUNTED

FIRE ALARM CONTROL PANEL

FIRE ALARM TERMINAL CABINET

 $+\bigcirc$

ANN

CLOCK

ANNUNCIATOR

FIRE SMOKE DAMPER

ASSISTIVE LISTENING SIGNAGE

FIRE ALARM PULL STATION

SMOKE DETECTOR

HEAT ATTIC DETECTOR

HEAT DETECTOR

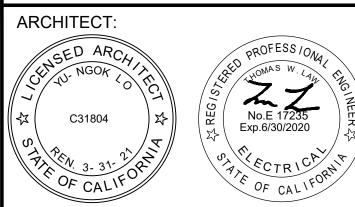
ELECTRICAL PANEL, FLUSH WALL MOUNTED

(FUSE AND SWITCH SIZE AS INDICATED)

CONNECTION TO FIXTURES AND DEVICES.

(20 AMP. 120 VOLT, 3W)





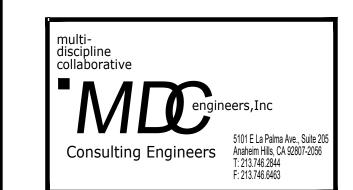
PROJECT:

ARCHITECT

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501



REVISIONS:

DATE ISSUED:

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PROJECT NAME:

LEVY ADULT SCHOOL **PORTABLE**

BID SET SHEET TITLE

> ELECTRICAL **NOTES & SYMBOL**

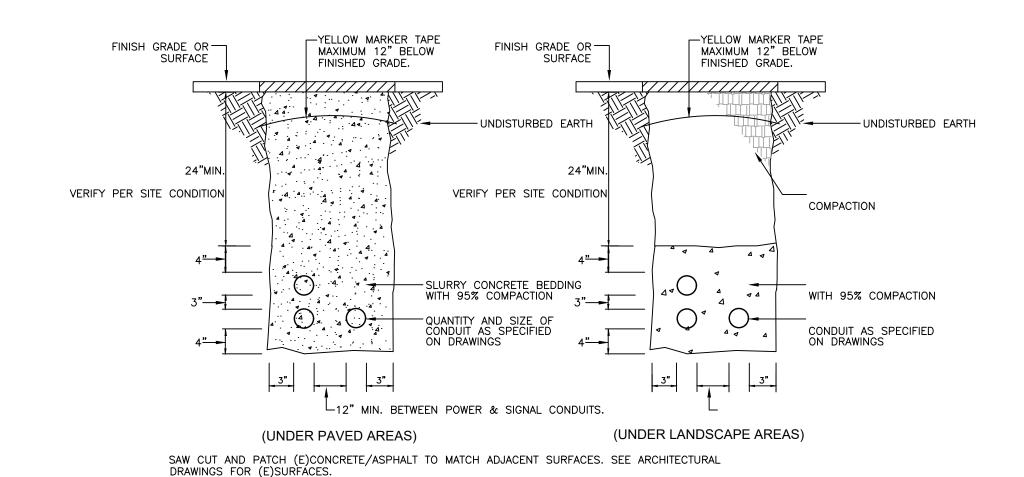
SHEET NO:

LIST

GROUND CONNECTION WITH ACCESSIBLE CLAMP ———— STUB CONDUIT CONDUIT DROPPING DOWN FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE) CONDUIT RISING UP FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE) -->>> END OF LINE FIRE ALARM WIRE GENERAL SYMBOLS NUMBERED NOTE FOR SHEET WHERE SHOWN DETAIL DESIGNATION FOR ITEM & DRAWING NUMBER INITIATING DEVICE CIRCUITS TO BE WIRED CLASS "B".

2. NOTIFICATION DEVICE CIRCUITS TO BE WIRED CLASS "B".

3. SEE SPECIFICATION SECTION: 16721

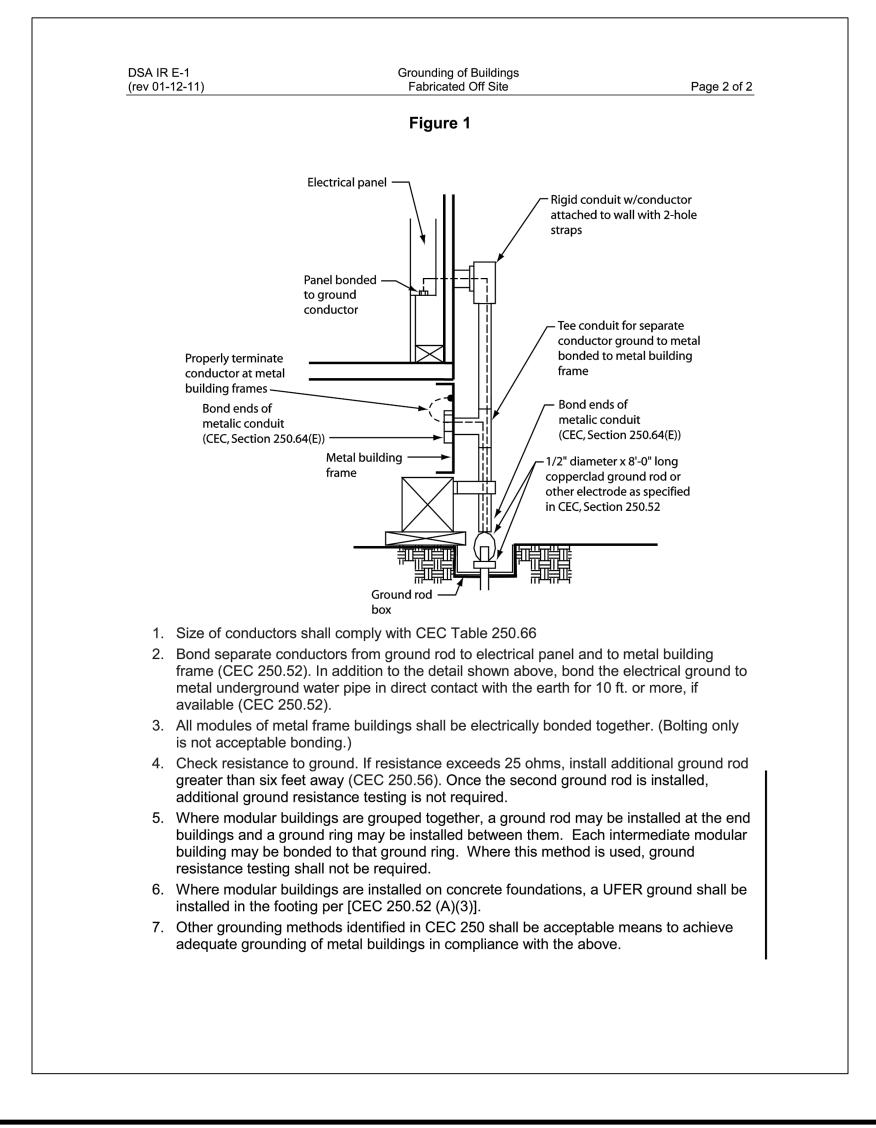


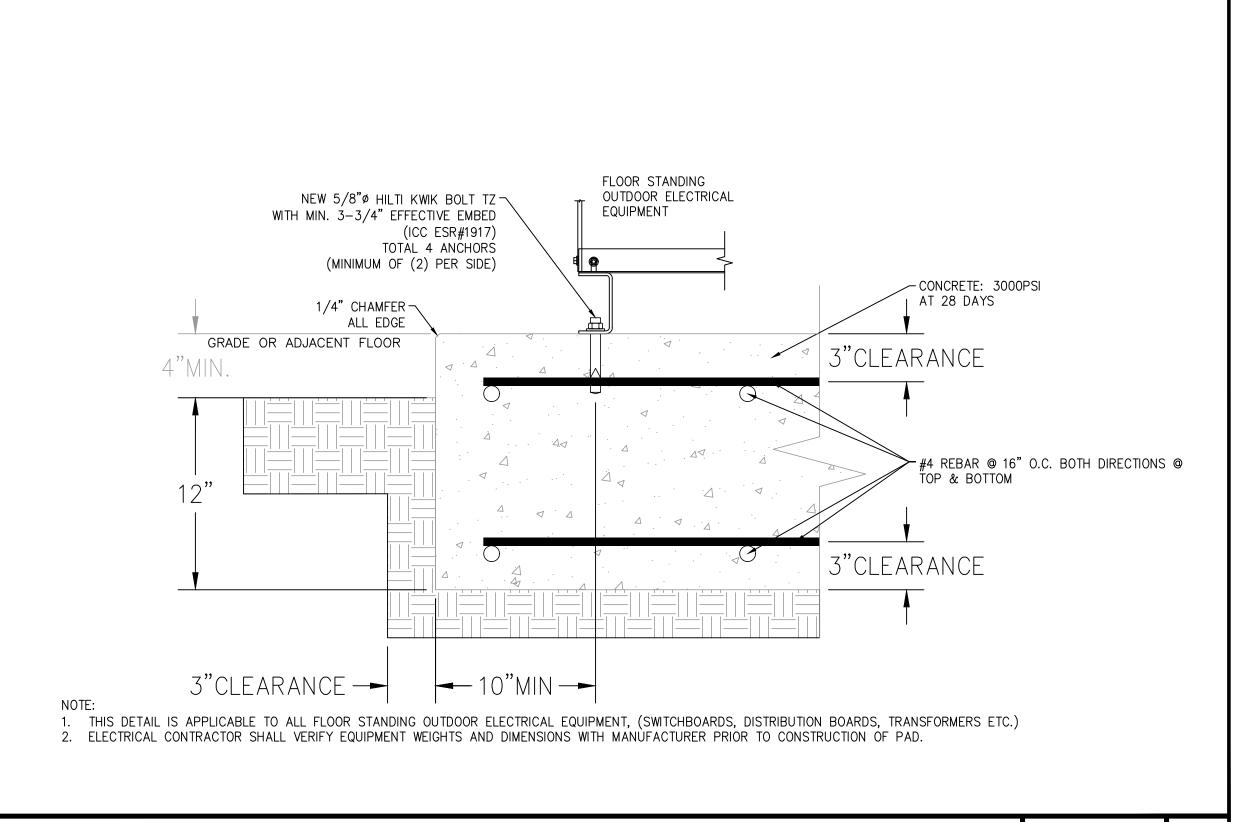
ALL UNDER GROUND CONDUITS SHALL BE PVC SCH40 WITH GRC RISER.

COMPLY WITH CEC. 300-5 FOR MINIMUM COVER REQUIREMENTS & CONCRETE/SLURRY PER DETAIL.

UNDERGROUND CONDUIT DUCT BANK DETAIL

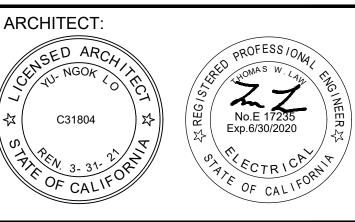
TO DIST BD."DB" (E) 100A (N)1-1/4°C,3#2+1#8GND CONFIRM GROUNDING AT PANEL. IF NO GROUNDING EXISTS PROVIDE 3/4"C ,1#4AWG CONDUCTOR TO (N)3/4" X 8'-0" CU. CLAD/STAINLESS STEEL GROUND ROD, DRIVEN INTO GROUND.





ARCHITECT



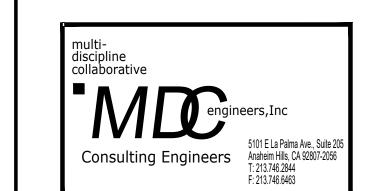


PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501



REVISI	IONS:	
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> LEVY ADULT SCHOOL PORTABLE

BID SET SHEET TITLE

PROJECT NAME:

ELECTRICAL SINGLE LINE DIAGRAM & DETAILS

SHEET NO:

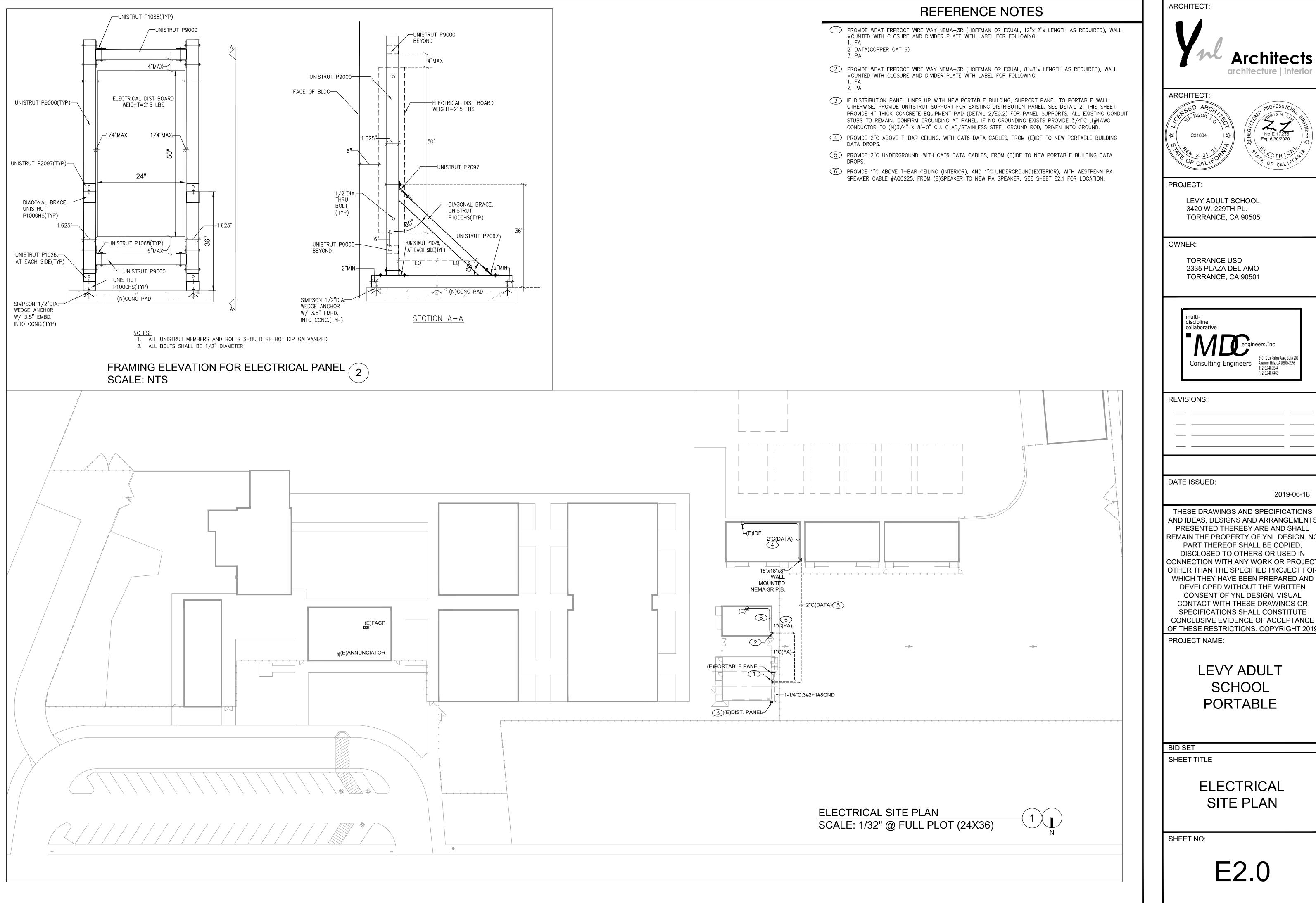
E0.2

PORTABLE BLDG. GROUNDING DETAIL

CONCRETE PAD DETAIL

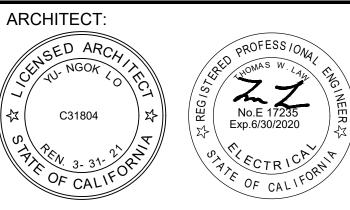
SINGLE LINE DIAGRAM

SCALE



ARCHITECT





PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501



REVISI	ONS:		

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2019-06-18

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PROJECT NAME:

LEVY ADULT SCHOOL PORTABLE

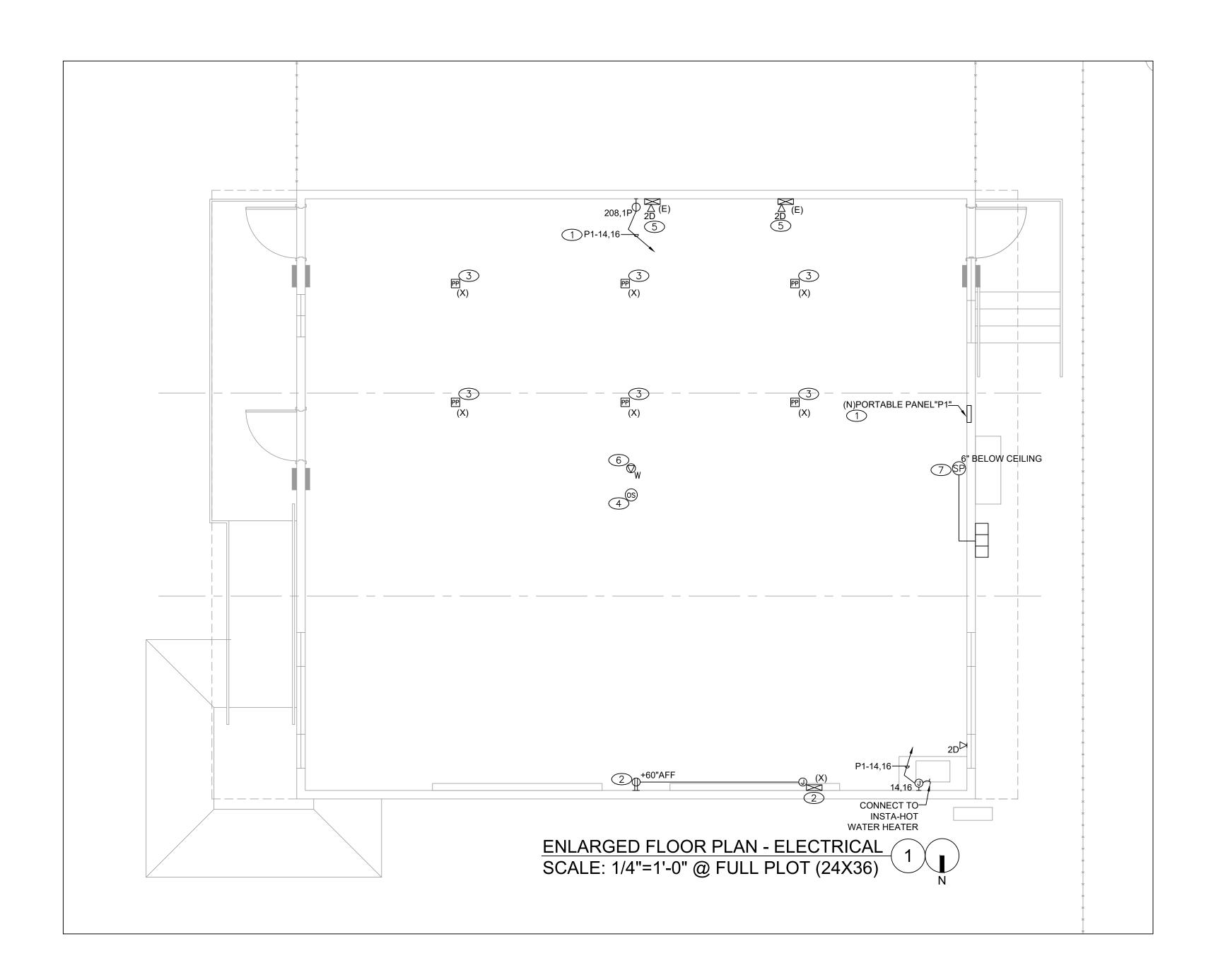
BID SET SHEET TITLE

> **ELECTRICAL** SITE PLAN

SHEET NO:

E2.0

DAT	E:			25-Jun-19				PANEL	VOLTAG	E:	240/120V	CII	RCUIT	CODE:	1=(CONTINUOUS)				
LOC	ATION	l:						PHASE	& WIRE:		1PH, 3W	/			2=(NON-CONTINUOUS)				
PAN	IEL:			P1				COPPE	R BUS:		100A				3=(RECEPTACLES)				
AIC	RATIN	G:		10KAIC				MAINS:			100A								
(KT	С	В	LOAD DESIGNA	TION			LOAD	PHA	SES	LOAD			LOA	AD DESIGNATION	C	В	CK	(T
NO.	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	Α	В	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO.
1		20	1	(EXISTING)*					4368		4368				(E)HVAC	2	60	2	2
3		20	1	(EXISTING)*						4368	4368				-	-	-	2	4
5		20	1	(EXISTING)*					1500		1500				(E)HVAC	2	30	2	6
7		20	1	(EXISTING)*						1500	1500				-	-	-	2	8
9		20	1	(EXISTING)*					1000		1000				SPECIAL OUTLET	2	20	2	10
11		20	1	(EXISTING)*						1000	1000				-	-	-	2	12
13		20	1	(EXISTING)*					2080		2080				WATER HEATER	2	20	2	14
15		20	1	(EXISTING)*						2080	2080				Ħ	=	-	2	16
17		20	1	(EXISTING)*					0						SPARE	1	20		18
19		20	1	(EXISTING)*						0					(EXISTING)*	1	20		20
								TOTAL	8948	8948	CONNE	CTED I	(VA		17.9				
											CONN.K	(VA (C	ODE 1)		0.0				
	,	* REC	ONNE	CT EXISTING CIRCUITS TO REMA	AIN. UNI	JSED (CIRCUIT	ΓS SHAL	L BE		CONN.K	(VA (C	ODE 2)		17.9				
	1	LABE	LED AS	S SPARE							CONN.K	(VA (C	ODE 3)		0.0				
											FEEDER	R DEM/	ND K	/A	17.9				
											FEEDER	R DEM/	AND AN	/IPS	74.6				
											X'FMR.	KVA			17.9				

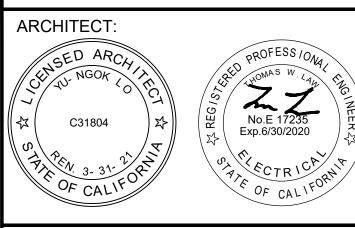


REFERENCE NOTES

- REPLACE (E)PANEL WITH NEW, SQUARE-D #QO 1-PHASE LOAD CENTER, 20 CIRCUIT, WITH 100A,2P MAIN
- 2 REMOVE (E)WIREMOLD, AND DATA CABLING. PROVIDE JUNCTION BOX IN CEILING FOR (E)POWER, AND EXTEND CONDUIT AND WIRING TO (N)RECEPTACLE FOR TELEVISION.
- 3 REMOVE (E)POWER POLE, AND ASSOCIATED CONDUIT AND WIRING.
- PROVIDE (N)OCCUPANCY SENSOR, WATTSTOPPER #DT-300 SERIES WITH POWER PACK. EXTEND CONDUIT AND WIRING AS REQUIRED.
- 5 PROVIDE (N)DATA DROPS ON EXISTING WIREMOLD.
- 6 PROVIDE (2)CAT6 CABLES TO (N)WIRELESS ACCESS POINT(WAP). WAP BY OTHERS.
- 7 INSTALL PA SPEAKER(DISTRICT PROVIDED, BOGEN #WBS87725VBRV OR TO MATCH EXISTING AT ADJACENT PORTABLE), WALL MOUNTED, WITH WESTPENN PA SPEAKER CABLE #AQC225 FROM ADJACENT PORTABLE BUILDING SPEAKER. SEE SITE PLAN.

ARCHITECT





PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501



REVISI	ONS:		

DATE ISSUED:

2019-06-18

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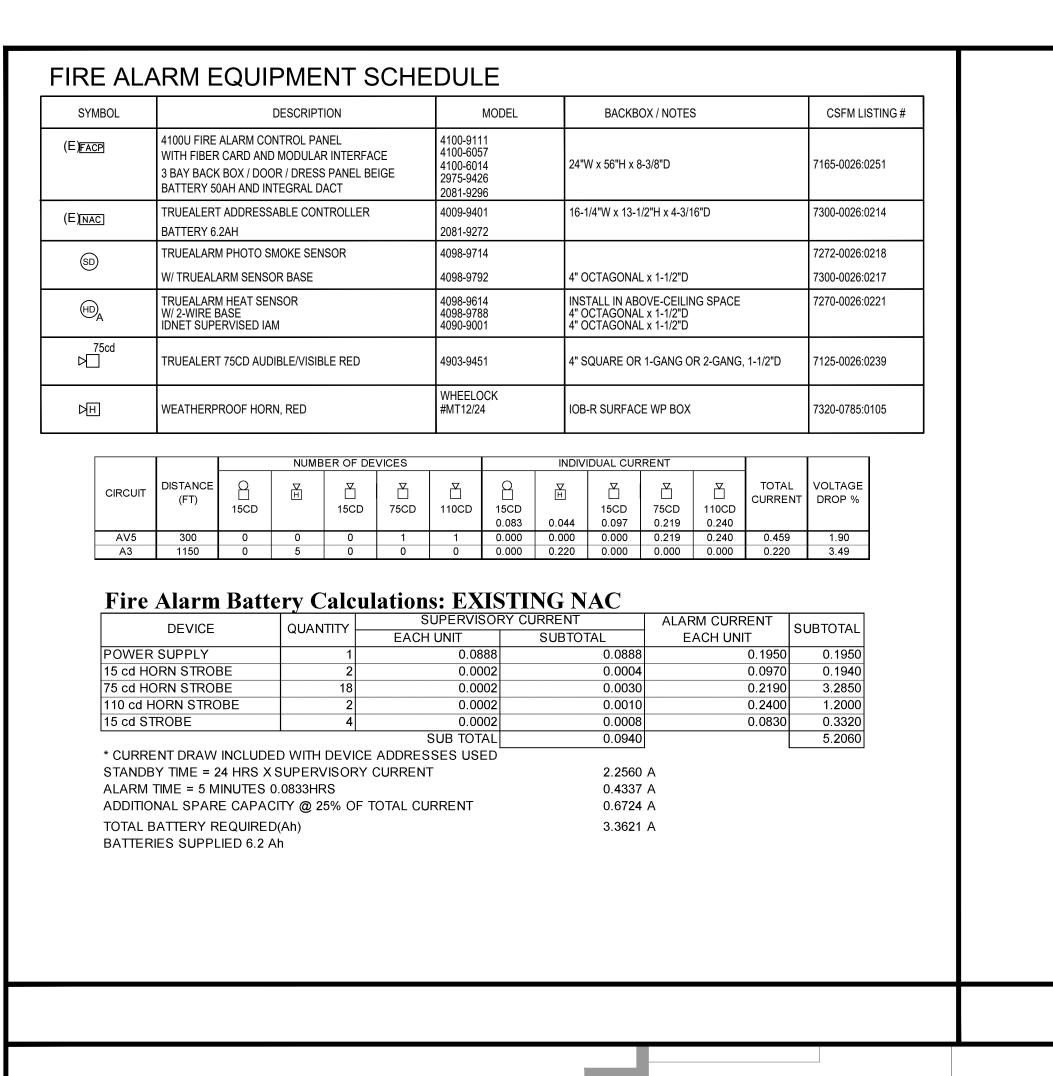
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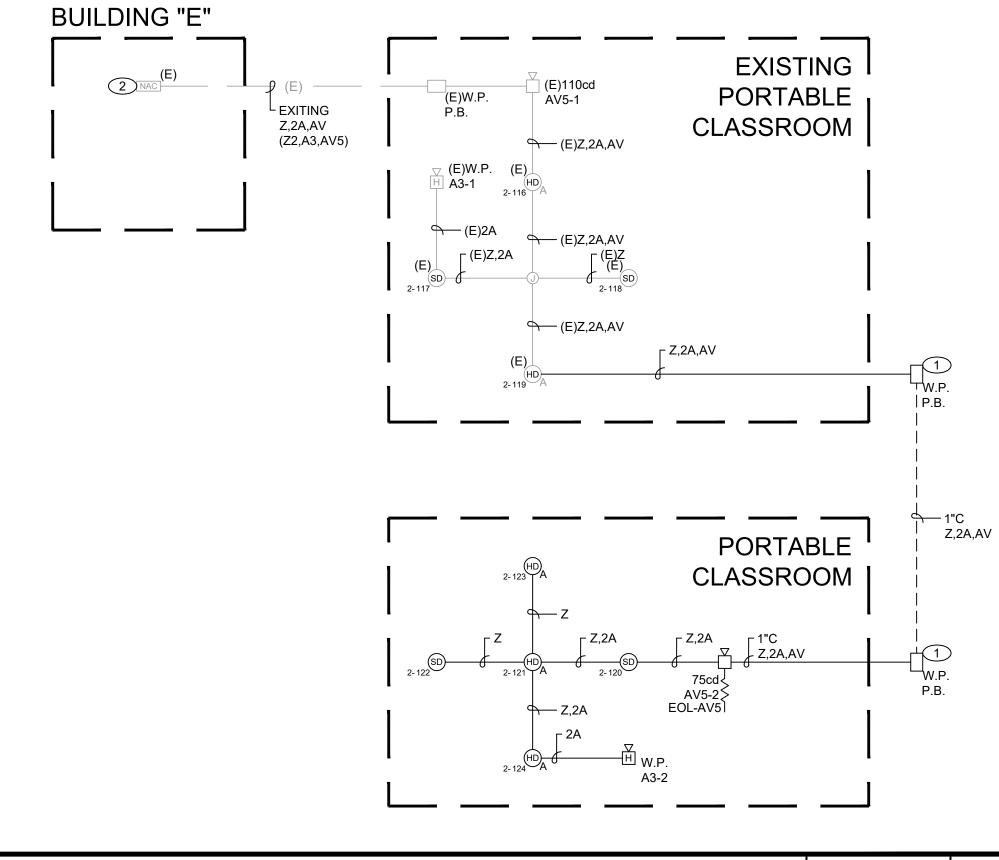
PROJECT NAME:

ENLARGED PLAN ELECTRICAL

SHEET NO:

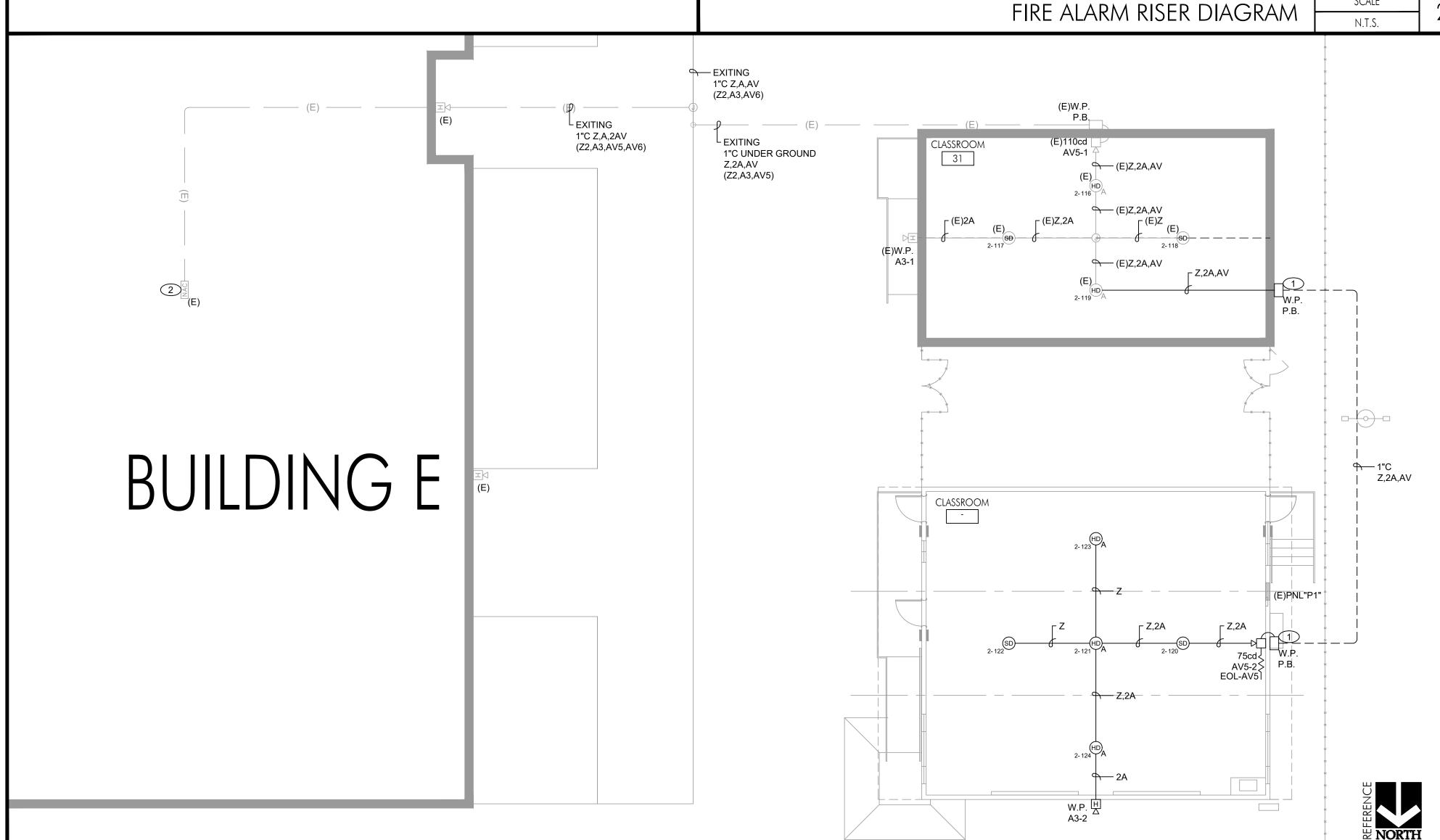
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FIRE ALARM PORTABLE BUILDING PLAN

SCALE



GENERAL NOTES

- ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT/DEVICES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS. ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM.
- EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED UNTIL NEW FIRE ALARM HAS BEEN INSTALLED AND TESTED, AND ACCEPTED BY IOR AND THE DISTRICT. UNLESS FIRE WATCH IS PROVIDED.
- AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN: A. AIR-MOVING SYSTEMS SUPPLYING AIR LESS THAN 2000 CFM TO ENCLOSED SPACES WITHIN BUILDING. (CMC
- B. ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET. (CMC 608.1 EXCEMPTION#2).

FIRE ALARM NOTES

- ALL WIRING SHALL BE IN CONDUIT, SURFACE RACEWAY, ABOVE CEILINGS, UNDER FLOORS (CRAWL SPACE) AND IN STUD WALLS IN A NEAT AND PROTECTED MANOR. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. CONDUIT FILL SHALL BE PER TABLE 3B OF ELECTRICAL CODE. PROVIDE PVC SCHEDULE 40 FOR CONDUITS UNDERGROUND. EMT CONDUIT FOR INTERIOR EXPOSED AREAS. AND GALVANIZED RIGID STEEL /IMC FOR EXPOSED EXTERIOR AREAS. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UON CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS (I.E. NO. OF BENDS, ETC.) BUT SHALL NOT BE SMALLER THAN 3/4". MAXIMUM CONDUIT SIZE SHALL BE 2" (SITE UNDERGROUND)
- FIRE ALARM JUNCTION BOX COVER SHALL BE PAINTED RED AND LABELED "FIRE ALARM". ALL FIRE ALARM CONDUITS SHALL HAVE A RED
- . ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN C.B.C CHAPTER 7, U.L OR OTHER LAB TESTING CRITERIA. APPROVE TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN A FIRE ALARM SECTION. INSTALLATION AND APPLICATION, PER MANUFACTURER'S INSTRUCTIONS. REFER TO FIRE ALARM DETAIL DRAWING THROUGH-PENETRATION FIRE STOPPING FOR ALL FIRE RATED WALLS.
- CONDUIT AND JUNCTION BOXES ARE NOT TO BE USED FOR UNRELATED NON FIRE ALARM WIRING.
- 6. ALL EQUIPMENT, I.E. AUTOMATIC DETECTION DEVICES, MANUAL PULL STATIONS, AUDIO/VISUAL DEVICES, ETC., SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH LISTINGS AND APPLICABLE PROVISIONS OF TITLE 24, PARTS 2,3,4 & 9 STANDARDS. ALL EXTERIOR DEVICES SHALL BE LISTED FOR OUTDOOR USE AND MOUNTED IN APPROVED WEATHERPROOF BOXES AND IN ACCORDANCE WITH TITLE
- THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE FOR SIMPLEX FIRE ALARM SYSTEM AND COMPONENTS. EACH INITIATING DEVICE SHALL BE INDIVIDUALLY ANNUNCIATED AS ONE ADDRESS.
- 3. THE ALARM AUDIBLE SIGNAL PATTERN SHALL BE THE STANDARD ALARM EVACUATION SIGNAL CONSISTING OF THREE-PULSE
- WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90" (MAXIMUM 100") AND BELOW THE FINISHED CEILINGS AT DISTANCE OF NOT LESS THAN 6". (NFPA 72, 18.4.8)
- 0. WALL MOUNTED VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISH FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM 80", APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. (NFPA 72, 18.5.5)
- 1. VISIBLE NOTIFICATION APPLIANCES SHALL BE RATED NOT LESS THAN 15 CD AND SHALL NOT EXCEED TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH PER SECOND. (NFPA 72, 18.5.5). WHERE THERE ARE MORE THAN TWO APPLIANCES IN A FIELD OF VIEW. THEY NEED TO BE SYNCHRONIZED.
 - VISIBLE NOTIFICATION APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 18.5.5.4, EITHER TABLE 18.5.5.4.1(A) OR TABLE 18.5.5.4.1(B). VISIBLE NOTIFICATION APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 18.5.5.5. VISIBLE NOTIFICATION APPLIANCES SHALL BE LOCATED NOT MORE THAN 15 FT FROM THE END OF THE CORRIDOR WITH
- 12. ALL AREAS REQUIRED TO BE "STROBE" MUST HAVE A DIRECTION LINE OF SIGHT TO AT LEAST ONE STROBE LIGHT.

SEPARATION NOT GREATER THAN 100 FT BETWEEN APPLIANCES.

- DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING. ALL POINT ON THE CEILING SHALL HAVE A DETECTOR WITHIN A DISTANCE EQUAL TO OR LESS THAN 0.7 TIMES THE LISTED SPACING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND INSTALL
- a. SPACING FOR HEAT DETECTOR (ATTIC) SHALL BE INSTALLED MAXIMUM 35 FT RADIUS SPACING (NON-PLENUM/NON-SPRINKLER). b. SPACING FOR SMOKE DETECTORS SHALL BE INSTALLED MAXIMUM 21 FT RADIUS SPACING.
- 4. SMOKE DETECTOR SHALL NOT BE ANY CLOSER THAN 12" FROM FIRE SPRINKLER/LIGHTING FIXTURE OR 36" FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURN OVER TO THE OWNER.
- 15. OPERATION OF NON-FIRE SYSTEM FUNCTION(S) ORIGINATING WITHIN A CONNECTED NON-FIRE SYSTEM SHALL NOT INTERFERE WITH THE REQUIRED OPERATION OF FIRE ALARM SYSTEM UNLESS OTHERWISE PERMITTED BY NFPA.
- 16. SHORT CIRCUITS, OPEN CIRCUITS, OR GROUNDS IN THE EQUIPMENT OR BETWEEN THIS EQUIPMENT AND THE FIRE ALARM SYSTEM WIRING SHALL NOT INTERFERE WITH THE MONITORING FOR INTEGRITY OF THE FIRE ALARM SYSTEM OR PREVENT ALARM, SUPERVISORY, OR FIRE SAFETY CONTROL SIGNAL TRANSMISSIONS.
- 17. ALL NON-FIRE ALARM COMPONENTS OF A COMBINATION SYSTEM SHALL BE LISTED FOR FIRE ALARM USE UNLESS REMOVAL, REPLACEMENT, FAILURE, OR MAINTENANCE PROCEDURE ON ANY NON-FIRE ALARM HARDWARE, SOFTWARE, OR CIRCUITS DOSE NOT IMPAIR THE REQUIRED OPERATION OF THE FIRE ALARM SYSTEM.

REFERENCE NOTES

- PROVIDE WEATHERPROOF WIRE WAY NEMA-3R, WALL MOUNTED WITH CLOSURE AND DIVIDER PLATE WITH LABEL, REFER TO ELECTRICAL SITE PLAN E2.0 (TYPICAL).
- (2) RECONNECT AND REPROGRAM NEW FIRE ALARM SYSTEM AT EXISTING FACP. CONTRACTOR TO VERIFY COMPATIBILITY OF EXISTING DEVICES AND INCORPORATE ALL EXISTING DEVICES INTO EXISTING FIRE ALARM SYSTEM.

Sequence of Operation System Response	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	SHORT CIRCUIT	BATTERY FAILURE	GROUND FAULT	120VAC POWER FAILURE
ANNUNCIATE AT FACP / ANN (ALARM)	YES	YES	YES	NO	NO	NO	NO
ANNUNCIATE AT FACP / ANN (TROUBLE)	YES	YES	YES	YES	YES	YES	YES
ACTIVATE RELAY FOR MONITORING (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES	YES
OFF-SITE REPORTING	YES	YES	YES	YES	YES	YES	YES

THE FIRE ALARM SIGNALS WILL OPERATE ACCORDING TO NFPA 72 REQUIREMENTS. IF THE FIRE ALARM SYSTEM IS ACTIVATED AND VOICE EVACUATION MESSAGE IS SIMULTANEOUSLY ACTIVATED, THE FIRE ALARM SIGNAL WILL BE EXTINGUISHED, AND VOICE EVACUATION MESSAGE WILL BE ACTIVATED. THE FIRE ALARM SIGNALS WILL BE REINSTATED ONCE THE VOICE EVACUATION MESSAGE ARE COMPLETED.

Table C1. Maximum Number of Conductors in Electrical Metallic Tubing (EMT)

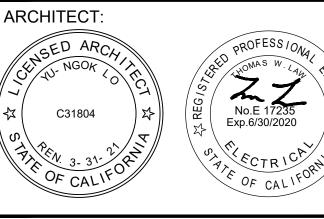
Conductor	3/4" C	onduit	1" Conduit		
Size	Maximum	Maximum	Maximum	Maximum	
AWG	Number of	Weight	Number of	Weight	
	Conductors	(lbs/ft)	Conductors	(lbs/ft)	
14 and	22	0.802	35	1,210	
smaller					
12	16	0.834	26	1.274	

FIRE ALARN	M WIRE LIST	
SYMBOL	DESCRIPTION	CABLE SIZE AND TYPE
Z	ADDRESSABLE INITIATING LOOP	TSP # 18 WEST PENN # D980 (INDOOR)
Z	ADDRESSABLE INITIATING LOOP	TSP # 16 WEST PENN # AQ225 (OUTDOOR)
А	AUDIBLE NOTIFICATION CIRCUIT	2#12 THHN/THWN CU
AV	AUDIBLE/VISUAL NOTIFICATION CIRCUIT	2#12 THHN/THWN CU
Р	POWER	2#12 THHN/THWN CU
N	ANNUNCIATOR	2CTSP#16 WEST PENN # PLT3245 & 2# 14 THHN

with compact conductors, the dimensions in table 5A shall be used.

ARCHITECT





PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE. CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501



REVISI	ONS:	

DATE ISSUED:

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THESE DRAWINGS AND SPECIFICATIONS

PROJECT NAME:

LEVY ADULT SCHOOL PORTABLE

BID SET SHEET TITLE

ENLARGED PLAN FIRE ALARM

SHEET NO:

E2.2

GENERAL NOTES

- 1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AND LISTED LIST OF CALIFORNIA CODE OF REGULATIONS (C.C.R.)
- 2. BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED.
- 3. DRAWINGS INDICATE SIZE AND TERMINATION OF PIPING AND SUGGEST PROPER ROUTES OF PIPING TO CONFORM TO THE STRUCTURE TO AVOID OBSTRUCTION AND TO PRESERVE CLEARANCE. IT IS NOT THE INTENT TO INDICATE ALL NECESSARY OFFSETS AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL PIPING IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR AND MAKE ALL EQUIPMENT REQUIRING INSPECTION, MAINTENANCE AND REPAIR ACCESSIBLE WITHOUT FURTHER INSPECTIONS OR ADDITIONAL COST.
- 4. THE WORK OF THIS PROJECT INVOLVES THE REPLACEMENT OF EXISTING SANITARY WASTE AND VENT PIPING BELOW GROUND INSIDE THE BUILDING AND WASTE PIPING ABOVE GROUND AS INDICATED ON THE DRAWINGS. VISIT THE JOBSITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE DRAWINGS FOR THESE AREAS SHOW THE CHANGES TO BE MADE REVISE, REARRANGE, REROUTE OR REMOVE EXISTING PIPING AND AND RELATED APPURTENANCES AS REQUIRED TO ACCOMMODATE THE CHANGES AND ADDITIONS SHOWN
- 5. THE ALTERATION OF THE EXISTING CAST IRON SANITARY WASTE PIPING TO NEW PVC SCHEDULE 80 DRAINAGE PIPING BELOW GROUND INSIDE THE BUILDING IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION BY THE CONTRACTOR.
- NOT USED.
- 7. UNLESS OTHERWISE NOTED, EXISTING PIPING AND RELATED APPURTENANCES BEING REMOVED SHALL BE DISPOSED OF OFF-SITE AT CONTRACTOR'S EXPENSE.
- 8. ALL WORK THAT INVOLVES "SHUT-DOWN" OF EXISTING UTILITIES OR PORTIONS THEREOF, SHALL BE DONE AT SUCH TIMES THAT WILL CAUSE THE LEAST INCONVENIENCE TO THE DISTRICT'S ACTIVITIES. THE EXACT TIME AND LENGTH OF "SHUT-DOWN" SHALL BE PRE-ARRANGED WITH THE DISTRICT AND SCHOOL SITE AT LEAST 72 HOURS IN ADVANCE OF THE REQUIRED SHUT-DOWN.
- 9. ALL PIPING SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "SMACNA" GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEMS.
- 10. EXPOSED HOT WATER SUPPLY PIPES, TRAP AND TRAP ARM AT "ACC" OR "D.A." LAVATORIES WITH HOT WATER SHALL BE INSULATED.
- 11. RUN ALL PLUMBING LINES CONCEALED. NO LINES SHALL BE RUN EXPOSED WITHOUT PRIOR APPROVAL FROM THE DISTRICT & ENGINEER.
- 12. AESTHETICS ARE A VERY IMPORTANT COMPONENT OF THIS PROJECT. INSTALLATION OF PLUMBING WORK SHALL BE OF THE HIGHEST QUALITY AND CRAFTSMANSHIP POSSIBLE.
- 13. NOT USED.
- 14. REMOVE ALL (E) ABANDON PIPING THAT ARE EXPOSED OR WILL BE EXPOSED DURING THE DEMOLITION AND NEW PIPING INSTALLATION; COORDINATE AND VERIFY (E) PIPING PRIOR TO REMOVAL.
- 15. ALL BRANCH PIPING THAT WILL BE REMOVED SHALL BE CAPPED TO THE NEAREST ACTIVE TEE
- 16. ALL EXIST. IRRIGATION PIPING BEL. GRD., VALVES, VACUUM BREAKER & ALL RELATED APPURTENANCES TO REMAIN.
- 17. NOT USED.
- 18. NOT USED.
- 19. NOT USED.
- 20. AFTER AWARD OF CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION OF ALL EXISTING STRUCTURES (BOTH EXTERIOR AND INTERIOR) WITHIN AND ADJOINING WORK AREA. ANY EXISTING STRUCTURES AND OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED WITH MATERIALS, WORKMANSHIP, FIXTURES OR EQUIPMENT TEMPORARILY REMOVED SHALL BE RE-ERECTED OR INSTALLED IN AN APPROVED MANNER, THE CONTRACTOR SHALL SUBMIT ALL PROPOSED PROTECTION METHODS TO THE CONSTRUCTION MANAGER FOR REVIEW AND SHALL RECEIVE WRITTEN APPROVAL,
- 21 CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN APPROVED AND ACCEPTED BY THE DISTRICT & ENGINEER.

APPLICABLE CODES AS OF JANUARY 1, 2017

TITLE 24 C.C.R., PART2 2016 CALIFORNIA BUILDING CODE (CBC)

TITLE 24 C.C.R., PART32016 CALIFORNIA ELECTRICAL CODE (CEC)

TITLE 24 C.C.R., PART42016 CALIFORNIA MECHANICAL CODE (CMC)

TITLE 24 C.C.R., PART8 2016 CALIFORNIA HISTORICAL BUILDING CODE

(2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

TITLE 24 C.C.R., PART10 2016 CALIFORNIA EXISTING BUILDING CODE

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

TITLE 24 C.C.R., PART12 2016 CALIFORNIA REFERENCED STANDARDS CODE

TITLE 24 C.C.R., PART52016 CALIFORNIA PLUMBING CODE (CPC)

TITLE 24 C.C.R., PART62016 CALIFORNIA ENERGY CODE

TITLE 24 C.C.R., PART9 2016 CALIFORNIA FIRE CODE (CFC)

TITLE 24 C.C.R., PART1 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE.

(2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

TITLE 24 C.C.R., PART7 (NO LONGER PUBLISHED IN TITLE 24. SEE TITLE 8, CCR)

(2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

(2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

TITLE 24 C.C.R., PART11 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE)

(2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

(2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

22. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY THE DISTRICT AND IN COMPLIANCE WITH CBC 1704 A.3.

LIST OF CALIFORNIA CODE OF REGULATIONS (C.C.R.)

- 23. ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES.
- 24. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF
- 25. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOBSITE AT ALL TIMES.
- 26. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES WHERE SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE DISTRICT, THE ENGINEER OR THEIR REPRESENTATIVES. DETERMINE THE EXACT LOCATION, DEPTH, INVERT ELEVATIONS, POINT OF CONNECTIONS AND PROPER SLOPES BEFORE CONNECTING WORK. FIELD VERIFY AND COORDINATE AS REQUIRED.
- 27. OCCUPANTS OF THE EXISTING BUILDING SHALL NOT BE INCONVENIENCED. DUE TO CONTRACTOR'S WORK DEBRIS, ETC. ENTRANCES AND CORRIDORS SHALL BE PROTECTED AND KEPT FREE OF OBSTRUCTIONS. THE OWNER SHALL BE NOTIFIED IN ADVANCE OF, TIME DELIVERY OF EQUIPMENT IN ORDER TO AVOID INTERFERENCE WITH THE NORMAL ACTIVITY OF THE BUILDING.
- 28. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL PROVIDE OWNER WITH WRITTEN CERTIFICATION THAT ALL MATERIALS USED ON THIS PROJECT ARE
- 29. PROVIDE PROPER SLEEVING AND CAULKING TO ALL NEW WATER PIPING PASSING THROUGH SLAB ON GRADE AND WALLS
- 30. CONTRACTOR SHALL PROVIDE THE DISTRICT WITH A WRITTEN SCHEDULE OF WORK WHICH IS TO BE COORDINATED AND APPROVED BY THE DISTRICT PROJECT MANAGER, PRIOR TO THE START OF CONSTRUCTION.
- 31. CONTRACTOR TO COMPLY WITH ALL APPLICABLE SAFETY LAWS (OSHA, CAL OSHA ETC.).
- 32. WHEN CONTRACTOR HAS BEEN AWARDED THE CONTRACT, IT IS HIS RESPONSIBILITY TO SECURE THE AREAS SO NO UNAUTHORIZED PERSONNEL OR STUDENTS GAIN ACCESS TO THE PROJECT AREA OR THE CONTRACTORS STAGING AREA.
- 33. THE CONTRACTOR SHALL COOPERATE WITH THE DISTRICT TO THE FULLEST EXTENT IN PROVIDING TRAFFIC CONTROL DURING COURSE OF CONSTRUCTION SO AS TO PROVIDE A MAXIMUM PROTECTION FOR STUDENTS AND DISTRICT PERSONNEL. ALL EMPLOYEES ON THE PROJECT WORK SHALL PARK THEIR PRIVATE VEHICLES IN THE AREA DESIGNATED BY THE OWNER.
- 34. THE CONTRACTOR SHALL EXERCISE MAXIMUM DUST AND NOISE CONTROL EFFORTS TO KEEP AT A MINIMUM THE NUISANCE OF DUST AND CONSTRUCTION NOISE FROM THE CONSTRUCTION.
- 35. THE DISTRICT SHALL BE NOTIFIED IN ADVANCE OF TIMES OF EQUIPMENT OR MATERIALS DELIVERY IN ORDER TO AVOID INTERFERENCE WITH THE NORMAL ACTIVITY ON THE SCHOOL PREMISES
- 36. THE WORK AREA SHALL BE CLEANED DAILY AND ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AT LEGAL DUMP. AT CONCLUSION OF PROJECT CONTRACTOR SHALL LEAVE WORK AREA AND SITE, BROOM CLEAN AND GENERALLY IN SAME CONDITION AS PRIOR TO THIS CONSTRUCTION WORK.
- 37. NOT USED.
- 38. PROTECT-IN PLACE AND CARE FOR LAWNS SHRUBS, ETC, IN THE CONSTRUCTION AREAS DURING CONSTRUCTION PERIOD. REPLACE ALL DAMAGED ITEMS AT NO COST TO DISTRICT.
- 39. AT NO TIME DURING THE WORK UNDER THE CONTRACT SHALL THE CONTRACTOR PLACE, OR CAUSE TO BE PLACED, ANY MATERIAL OR EQUIPMENT ETC, AT A LOCATION THAT WOULD IMPEDE OR IMPAIR ACCESS TO OR FROM THE PRESENT FACILITIES.
- 40. NOT USED.
- 41. NOT USED.
- 42. IF ASBESTOS/LEAD IS ENCOUNTERED IT SHALL BE IMMEDIATELY REPORTED TO THE DISTRICT. CONTRACTOR SHALL NOT CONTINUE THEIR WORK WHERE ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION. REMOVAL AND ABATEMENT OF SUCH ENCOUNTERED SHALL BE PROVIDED BY DISTRICT. DISTRICT SHALL PROVIDE SPOT ABATEMENT WHERE IDENTIFIED BY CONTRACTOR.
- 43. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AT THE WORK AREA FROM WEATHER AND OTHER INCLEMENT CONDITIONS. ANY DAMAGE INCURRED DUE TO FAILURE BY THE CONTRACTOR TO PROPERLY PROTECT SUCH WORK SHALL BE REPAIRED AT CONTRACTOR'S
- 44. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED AND OR DEMOLISHED MATERIAL, WASTE AND DEBRIS CAUSED BY THE NEW WORK. THIS MATERIAL SHALL BE REMOVED FROM THE SCHOOL PROPERTY AND TAKEN TO A LEGALLY OPERATED DISPOSAL SITE. SEE NOTE NO.36.
- 45. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.
- 46. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7-05 SECTION 13.3.1 AND TABLE 13.6-1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
- 47. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA. WHERE BRACING DETAILS ARE NOT SHOWN ON DRAWINGS OR IN THE GUIDELINES. THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD
- 48. A COPY OF OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY CONTRACTOR AND KEPT ON JOB SITE AT ALL TIMES.

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

SPRINKLER SYSTEMS

STANDPIPE AND HOSE SYSTEMS

NATIONAL ELECTRICAL CODE

SMOKE CONTROL SYSTEMS

LIFE SAFETY CODE

DRY CHEMICAL EXTINGUISHING SYSTEMS

WET CHEMICAL EXTINGUISHING SYSTEMS

STATIONARY PUMPS FOR FIRE PROTECTION

WATER TANKS OF PRIVATE FIRE PROTECTION

NATIONAL FIRE ALARM AND SIGNALING CODE

CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

FIRE DOORS AND OTHER OPENING PROTECTIVES

PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRAND STANDS

AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS

FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION

HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

NFPA 14

NFPA 17

NFPA 17A

NFPA 22

NFPA 70

NFPA 72

NFPA 80

NFPA 92

NFPA 101

NFPA 2001

ICC 300

UL 300

UL 464

UL 521

SEISMIC NOTES

- 1. CONTRACTOR SHALL PROV1DE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR ALL PLUMBING AND REQUIRED PIPING.
- CONTRACTOR SHALL COMPLY WITH THE SUPPORT AND ANCHORAGE OF HVAC EQUIPMENT AS SHOWN ON DRAWINGS. IF THERE IS NO ANCHORAGE DETAIL SHOWN ON THE DRAWINGS, SUBMIT SHOPDRAWINGS IF THE FOLLOWING APPLY:
- A. THE EQUIPMENT HAS AN OPERATING WEIGHT OVER 40D POUNDS AND IS MOUNTED
- DIRECTLY ON THE FLOOR OR ROOF. B. THE EQUIPMENT HAS AN OPERATING WEIGHT OVER 20 POUNDS AND IS SUSPENDED FROM THE ROOF, FLOOR, OR WALL OR IS SUPPORTED BY SPRING ISOLATION
- C. THE CONTRACTOR SHALL SUBMIT THE ANCHORAGE DETAILS AND CALCULATIONS FOR ITEMS NOT SHOWN ON THE DRAWINGS AND FOR ALL SUBSTITUTED EQUIPMENT THAT IS GREATER IN WEIGHT OR VARIES MORE THAN 10% IN LENGTH.
- 3. THE CALCULATIONS AND DETAIL SUBMITTALS SHALL BE SEALED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE CALCULATIONS SHALL DEMONSTRATE THE FOLLOWING:
- A. THE ADEQUACY OF ANCHORAGE UNDER ALL APPLICABLE LOAD CONDITIONS
- PRESCRIBED BY THE UNIFORM BUILDING CODE. B. THE STRUCTURAL ELEMENTS, WHICH ARE RESISTING THE ANCHORAGE LOADS; SUCH AS CONCRETE FILL ON METAL DECK AND/OR STEEL BEAMS, ARE NOT STRESSED BEYOND ITS ACCEPTABLE VALUE.
- 4. FOR ALL VIBRATION ISOLATORS AND THEIR ANCHORAGES, THE CONTRACTOR SHILL PROVIDE CALCULATIONS, DETAILS AND TEST DATA TO SUBSTANTIATE THE ISOLATOR'S CAPACITY FOR VERTICAL AND LATERAL LOADS. CALCULATIONS MUST ALSO BE SUBMITTED TO SUBSTANTIATE THE SIZE, QUANTITY, LOCATION AND CONNECTION TO STRUCTURE. THE DRAWINGS MUST BE MADE CONSISTENT WITH THE CALCULATIONS. THE MANUFACTURER, EQUIPMENT AND STRUCTURAL ATTACHMENT PROCEDURE MUST BE CLEARLY SPECIFIED. ISOLATORS WHICH SUPPORT A COMPONENT INSIDE THE ACTUAL UNIT WILL NOT BE REVIEWED.
- 5. WHERE CONCRETE AND MASONRY EXPANSION OR ADHESIVE TYPE ANCHORS ARE USED. THE ANCHORAGE DETAILS AND CALCULATIONS SHALL INDICATE THE MANUFACTURER, ICBO REPORT NO., TYPE, DIAMETER, MINIMUM EMBEDMENT, CONCRETE TYPE AND STRENGTH.
- WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING DR DAMAGING THE EXISTING REINFORCING BARS. LOCATE REINFORCEMENT BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTILLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE
- R8NFORCEMENT AND THE DRILILED-IN ANCHOR AND/OR PIN. 7. NO POWER DRIVEN FASTENERS AND/OR SHOT PINS ARE ALLOWED FOR HANGING
- EQUIPMENT, DUCTWORK AND PIPING SYSTEMS. 8. ALL EXPANSION ANCHORS SHALL HAVE 50% OF THE BOLTS TESTED. IF ANY ANCHOR F~LS TESTING, TEST ALL ANCHORS OF THE~E CATEGORY NOT PREV10USLY TESTED UNTIL 20 CONSEQUENT PASS, THEN RESUME THE MINIMAL TESTING FREQUENCY. TESTING SHALL OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS, IN ACCORDANCE WITH IR19-1.
- 9. FOR ANCHORAGE USE RED HEAD THRU BOLTS ICC ESR-2427 OR HILTI KI'!K BOLT 3
- WEDGE ANCHORS ICC ESR-13BS. 10. THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO 2013 CBC SECTIONS 1615A.1.21 AND 1616A.1.22.

EXISTING CONDITIONS

- 1. THE INFORMATION ON THESE DRAWINGS WAS OBTAINED FROM THE BEST SOURCES
- AVAILABLE BUT IT IS NOT TO BE ASSUMED CORRECT IN ALL ASPECTS. THE CONTRACTOR SHALL VERIFY IN THE FIELD AII EXISTING CONDITIONS. INFORM THE ARCHITECT AND DISTRICT'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO COMMENCING WORK. DO NOT PROCEED WITHOUT APPROVAL BY THE DISTRICT'S
- REPRESENTATIVE, FOR ANY CHANGES, IF REQUIRED. PLEASE BE ADVISED THAT THIS IS AN ALTERATION TO AN EXISTING STRUCTURE AND IT IS
- THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS. 4. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID & FAMILIARIZE HIMSELF W/ EXISTING CONDITIONS. SUBMITTAL OF BID SHALL BE ONLY AFTER THE CONTRACTOR HAS VISITED THE SITE. CONTRACTOR SHALL IDENTIFY ALL DISCREPANCIES FOUND AND INDICATE ON HIS BID THE CORRESPONDING COST IMPLICATIONS, IF ANY.

SYMBOL	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
	w	SANITARY WASTE PIPING BEL. FLR.	ABS.	ACRYLONITRILE — BUTADIENE — STYRENE
	W	SANITARY WASTE PIPING ABV. FLR.	ABV.	ABOVE
	V	VENT PIPING	ACC	ACCESSIBLE
LW	LW	LABORATORY WASTE PIPING		
LV	LV	LABORATORY VENT PIPING		
	CW	COLD WATER PIPING	A.P.	ACCESS PANEL
	HW	HOT WATER PIPING	BEL.	BELOW
	HWR	HOT WATER RETURN PIPING	BEH.	BEHIND
/////////////////////////////////////		EXIST. PIPING TO BE REMOVED	CLG.	CEILING
•	POC	POINT OF CONNECTION	C.I.	CAST IRON
	UP	PIPING UP	CONN.	CONNECT/CONNECTION
———	DN	PIPING DOWN	CON'T.	CONTINUATION
— ф	FCO COYB	FLOOR CLEANOUT CLEANOUT IN YARD BOX	DA.	DISABLED ACCESS
	WCO	WALL CLEANOUT	DN.	DOWN
G	G	GAS PIPING	DF.	DRINKING FOUNTAIN
	U.	UNION	DWG'S	DRAWINGS
<u>ю</u>	B.V.	BALL VALVE	(E) EXIST.	EXISTING
	C.V.	CHECK VALVE	FLR.	FLOOR
	SOV	SHUT-OFF VALVE	FD	FLOOR DRAIN
	FLEX.	FLEXIBLE CONNECTION	FU	FIXTURE UNIT
(E) HW	(E) HW	EXIST. HOT WATER PIPING	FV	FLUSH VALVE
(E) CW	(E) CW	EXIST. COLD WATER PIPING	GPM	GALLONS PER MINUTE
— (E) G ——	(E) G	EXIST. GAS PIPING	GRD	GRADE
— (E) W ——	(E) W	EXIST. WASTE PIPING	H.B.	HOSE BIBB
(E) V	(E) V	EXIST. VENT PIPING	HDR	HEADER
—— ⊅⊢——	G.C.	GAS COCK	IE.	INVERT ELEVATION
(E)	EXIST.	EXIST. PIPING TO BE	MTD	MOUNTED
TP	TP	ABANDONED TRAP PRIMER LINE	CFH	CUBIC FEET PER HOUR
—(E) IRR —	(E)IRR	EXIST. IRRIGATION LINE	REQ'D	REQUIRED
SD	SD	STORM DRAIN PIPING	TYP.	TYPICAL
	V.C.P.	VETRIFIED CLAY PIPE	VTR.	VENT THRU ROOF
	CHW	CHILLED WATER		
	HHW	HEATING HOT WATER		
<u></u>	(E)AFSH		Y.B.	YARD BOX
TW	TW	TEMPERED WATER	F.H.C.	FIRE HOSE CABINET
	OCEW	ON CENTER EACH WAY	VCP	VITRIFIED CLAY PIPE
2		FIXTURE UNITS	1 - 2	

LEGEND AND ABBREVIATION

	SK-1	2"	1-1/2"	3/4"	3/4"	18—GA. STAINLESS STEEL COUNTER—MOUNT SINK; CHICAGO FAUCET REMOTE SPOUT AND FOOT PEDAL VALVE (625, 626 OR 834), 1.5 GPM AERATOR; CHICAGO THREADED STOPS AND SUPPLIES, "LA PATTERN" OFFSET P—TRAP, TRUEBRO LAVGUARD 103E—Z PIPE COVER/INSULATION BELOW SINK; ASSEMBLY SHALL BE ADA COMPLIANT; ASSEMBLY SHALL BE ADA COMPLIANT; COORDINATE EXACT REQUIREMENTS W/ ARCHITECT.	
ELECTRIC WATER HEATER SCHEDULE							

HW

FIXTURE SCHEDULE

REMARKS

SINGLE COMPARTMENT SINK, JUST MODEL "SLF-ADA-1921-A-GR".

UNIT PARTIAL LIST OF APPLICABLE STANDARDS 2016 EDITION 2016 EDITION 2013 EDITION 2013 EDITION 2016 EDITION 2013 EDITION 2016 EDITION 2014 EDITION 2016 EDITION

2016 EDITION

2015 EDITION

2015 EDITION

2015 EDITION

2012 EDITION

2005 EDITION

2016 EDITION

1999 EDITION

ELECTRIC WATER HEATER SCHEDULE												
IT TAG	LOCATION	TION MAKE MODEL NUMBER QTY TYPE INPUT KW G			PM TEMP. RISE, F	ELECTRICA	L	OPERATING WEIGHT	REMARKS			
								INISE, F	VOLT/PH/HZ	FLA	(LBS.)	
/H-1	_	CHRONOMITE	CM-20L/208	1	INSTANTANEOUS, UNDERCOUNTER	4.16	0.5 GPM	57	208/1/60	20	5	SET HOT WATER TO 104°F; MIN. ACTIVATION 0.2 GPM

VENT

CW

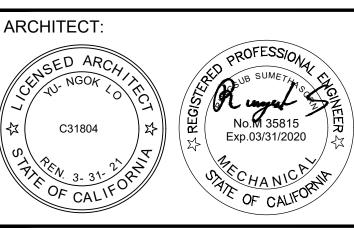
WASTE

FIXTURE

PIPE MATERIAL SCHEDULE					
PIPE	MATERIALS				
BELOW GROUND, OUTSIDE AND UNDER BUILDING WASTE PIPING	COATED HUBLESS CAST—IRON SOIL PIPES AND FITTINGS WITH ANACO—HUSKY SD4000 HEAVY DUTY SHIELDED SS COUPLINGS W/ SS STEEL BOLTS; PROVIDE APPROPRIATE ADAPTORS FOR CONNECTIONS TO PIPES OF DIFFERENT MATERIALS.				
ABOVE GROUND, INSIDE BUILDING WASTE PIPING	HUBLESS CAST-IRON WITH NEOPRENE GASKET & STAINLESS STEEL HEAVY-DUTY BAND/SHIELD. PROVIDE APPROPRIATE ADAPTORS FOR CONNECTIONS TO PIPES OF DIFFERENT MATERIALS.				
ABOVE GROUND VENT (V) PIPING	HUBLESS CAST-IRON WITH NEOPRENE GASKET & STAINLESS STEEL BAND/SHIELD OR GALVANIZED STEEL PIPE. PROVIDE APPROPRIATE ADAPTORS FOR CONNECTIONS TO PIPES OF DIFFERENT MATERIALS.				
CONDENSATE DRAIN (CD)	COPPER TYPE M WITH SOLDERED FITTINGS				
ABOVE GROUND, DOMESTIC COLD WATER	SEAMLESS COPPER TYPE L PIPE, ASTM B88, DRAWN TEMPER, WITH WROUGHT COPPER FITTINGS, LEAD-FREE SOLDER JOINTS				
ABOVE GROUND GAS PIPING	BLACK STEEL ASTM A53 SCHEDULE 40, TYPE S, W/ 150# BLACK BANDED MALLEABLE IRON SCREWED FITTINGS AND COUPLINGS; EPOXY PAINT EXPOSED EXTERIOR PIPE FOR CORROSION.				

ARCHITECT





PROJECT:

LEVY ADULT SCHOOL 3420 W. 229TH PL. TORRANCE, CA 90505

OWNER:

TORRANCE USD 2335 PLAZA DEL AMO TORRANCE, CA 90501



REVISI	ONS:	

DATE ISSUED:

2019-06-18

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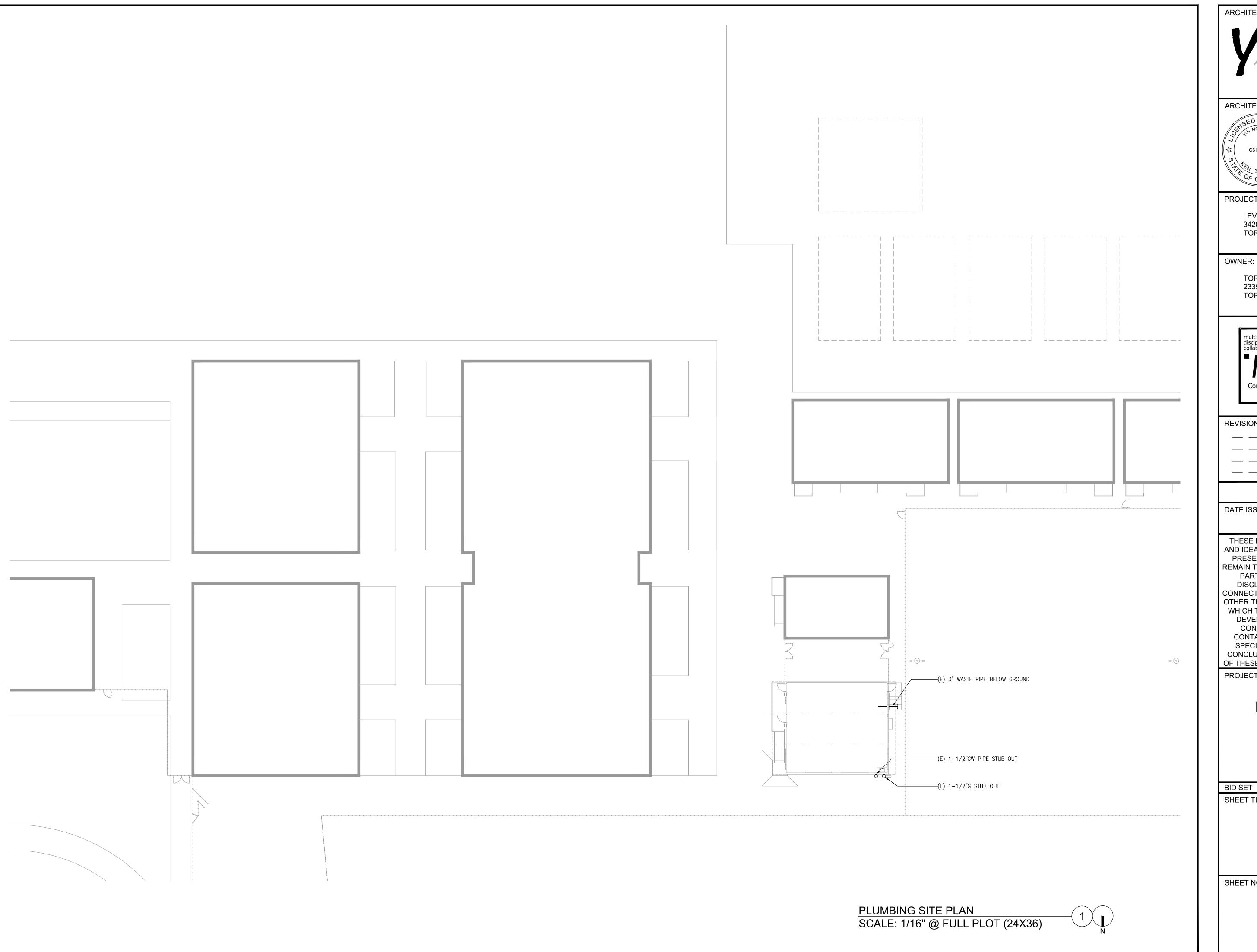
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LEVY ADULT SCHOOL PORTABLE

BID SET SHEET TITLE

> PLUMBING NOTES AND SCHEDULES

SHEET NO:





ARCHITECT:

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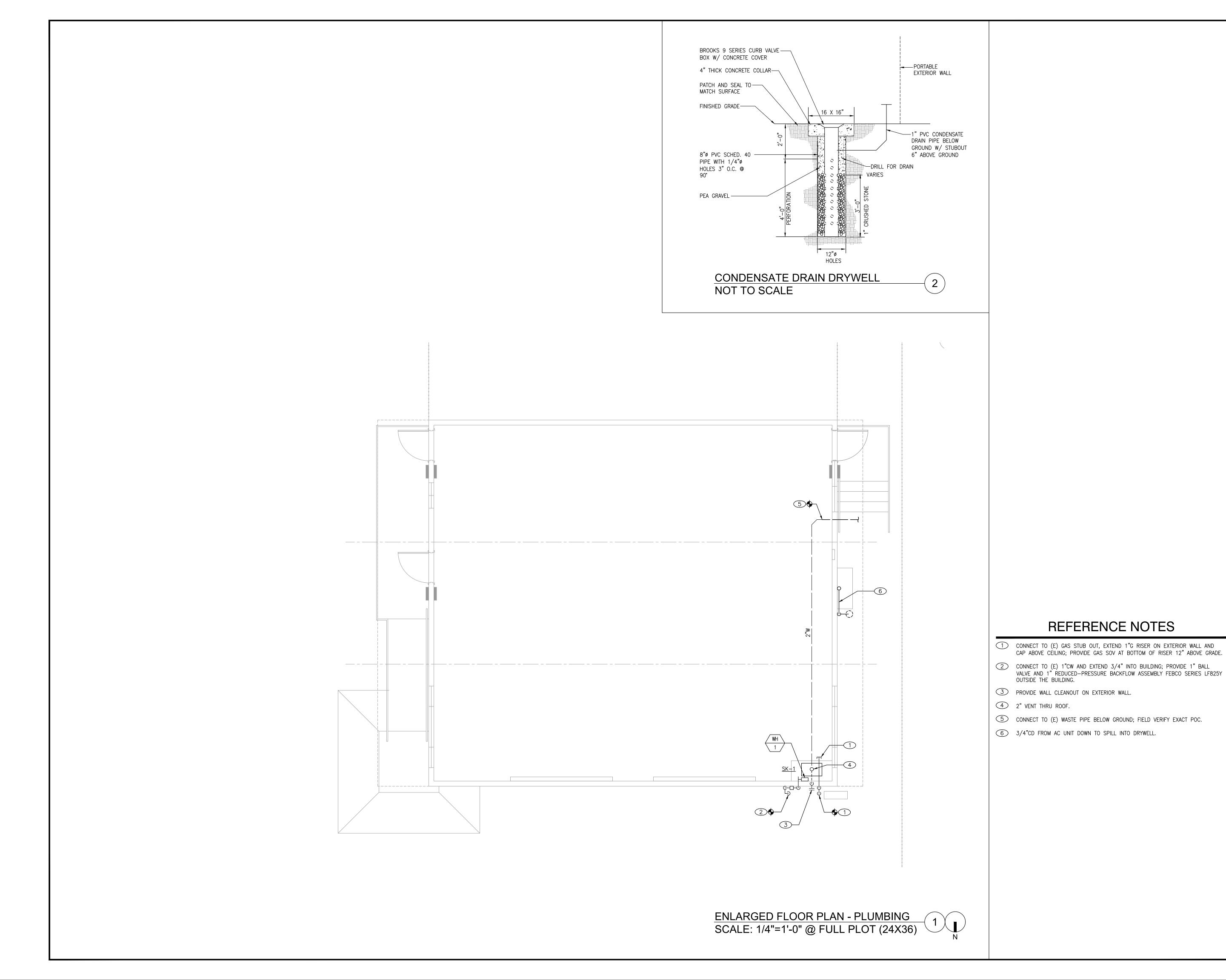
> LEVY ADULT SCHOOL PORTABLE

SHEET TITLE

PLUMBING SITE PLAN

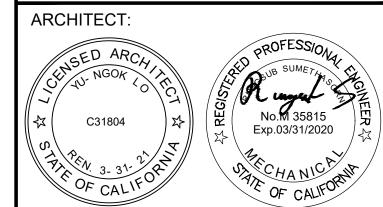
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ARCHITECT





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OWNER:

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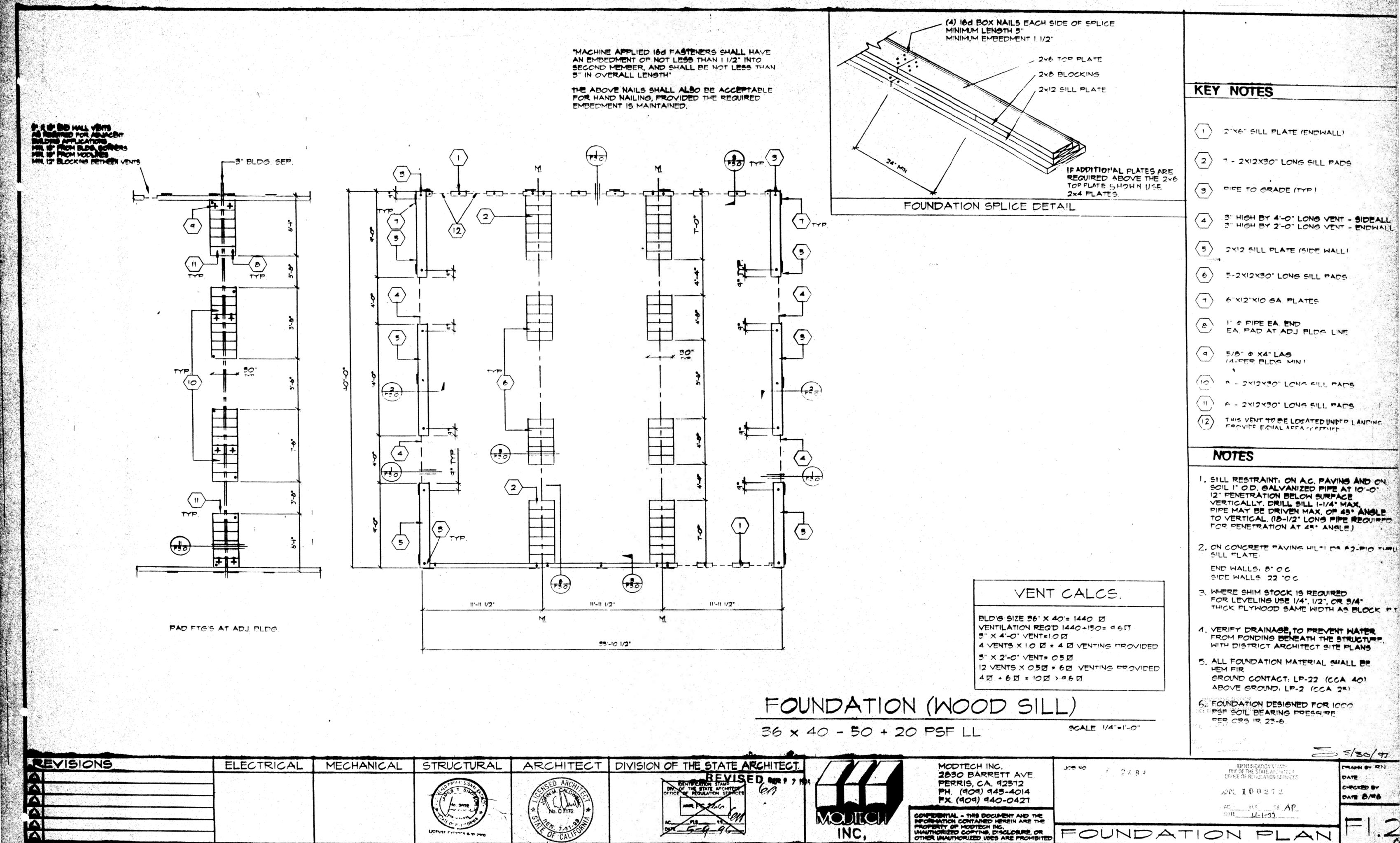
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ENLARGED PLAN PLUMBING

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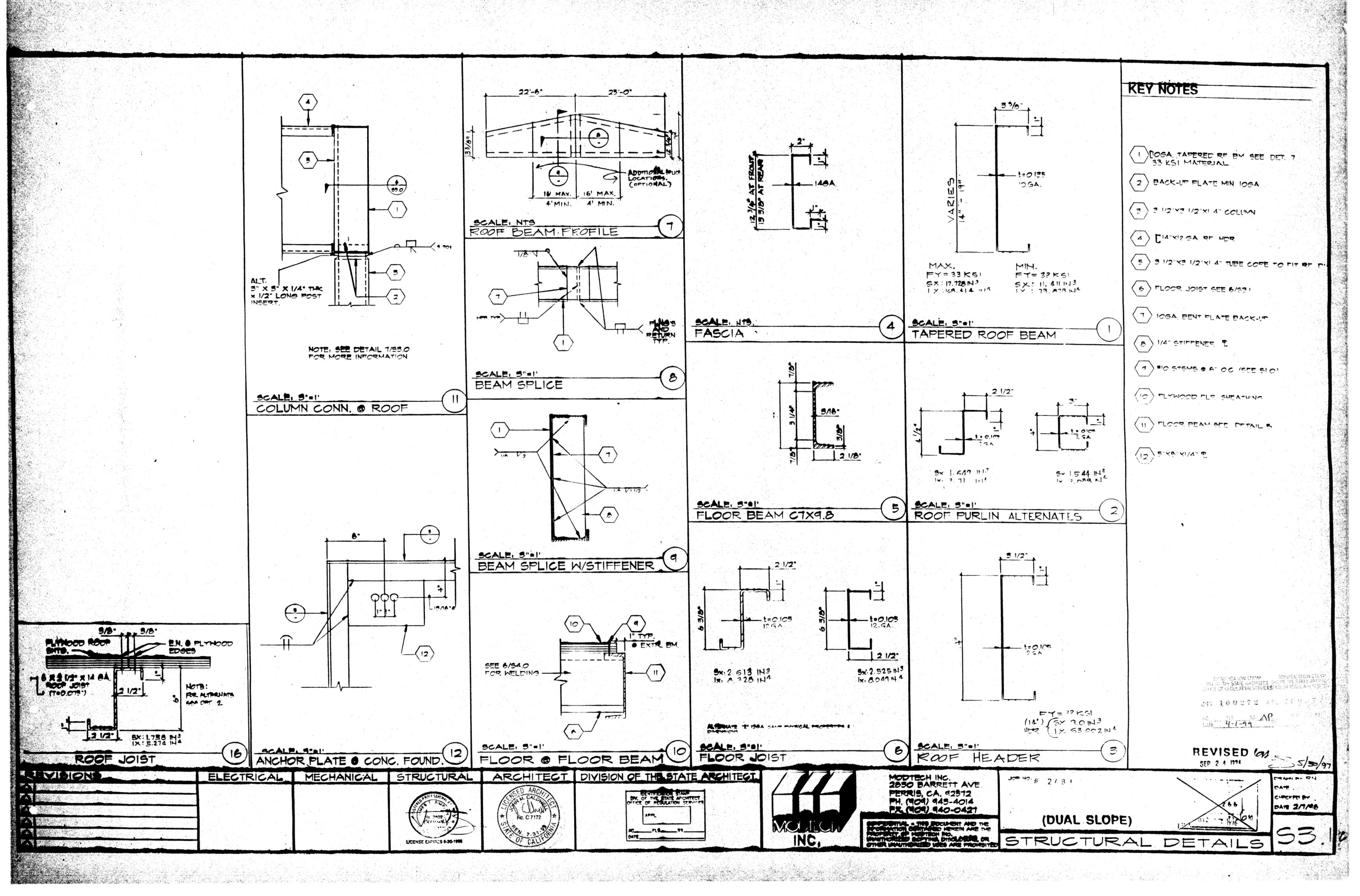
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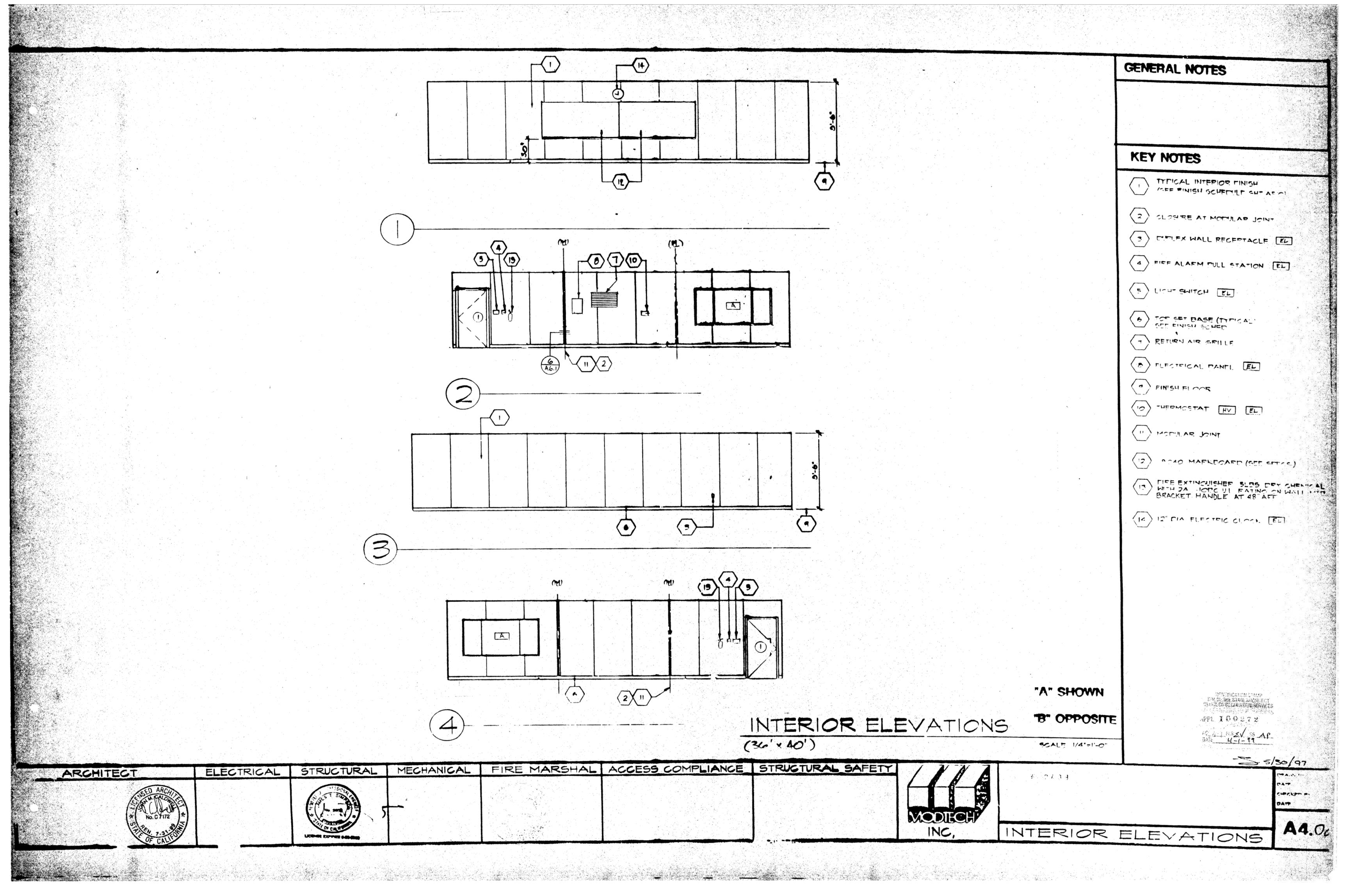


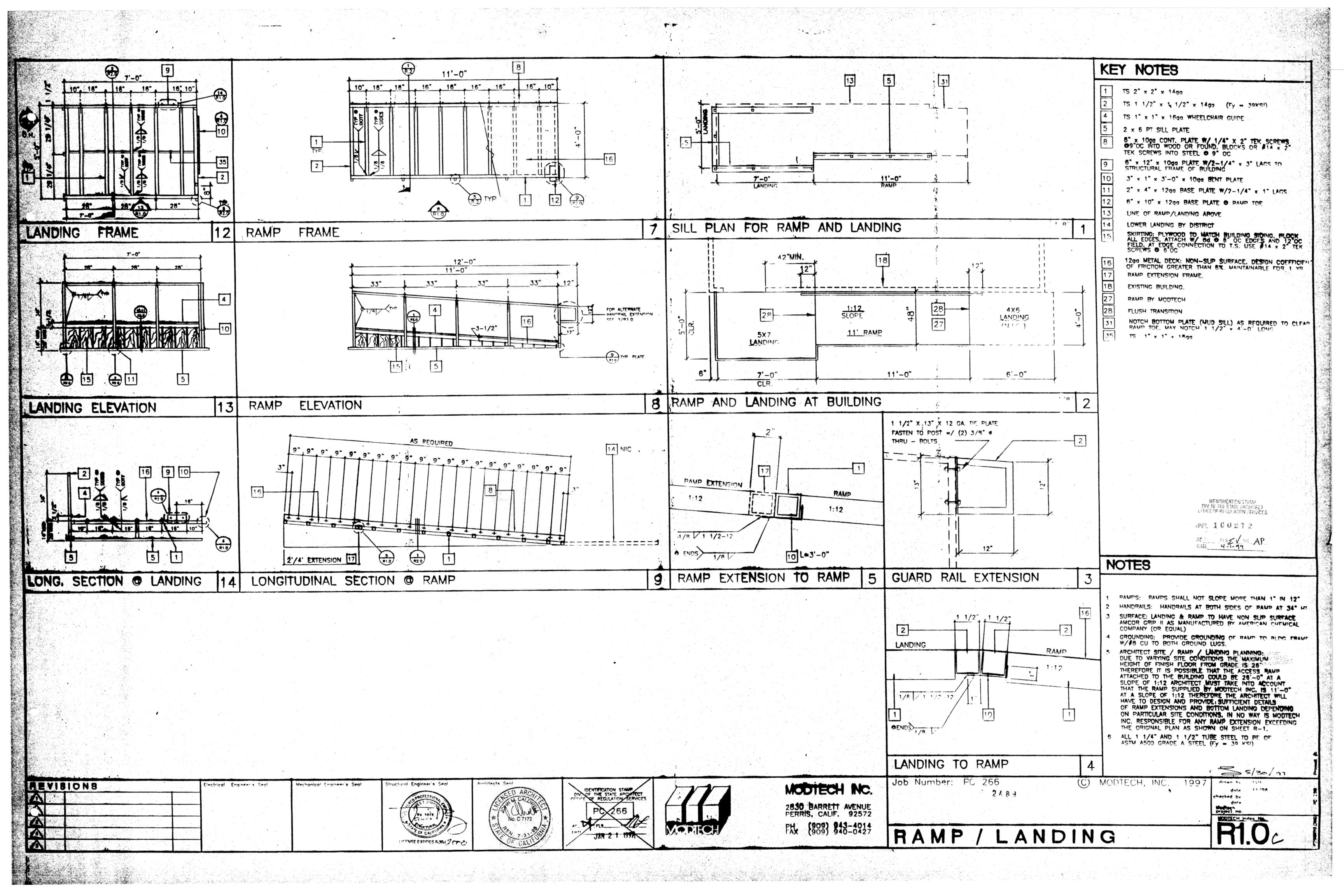
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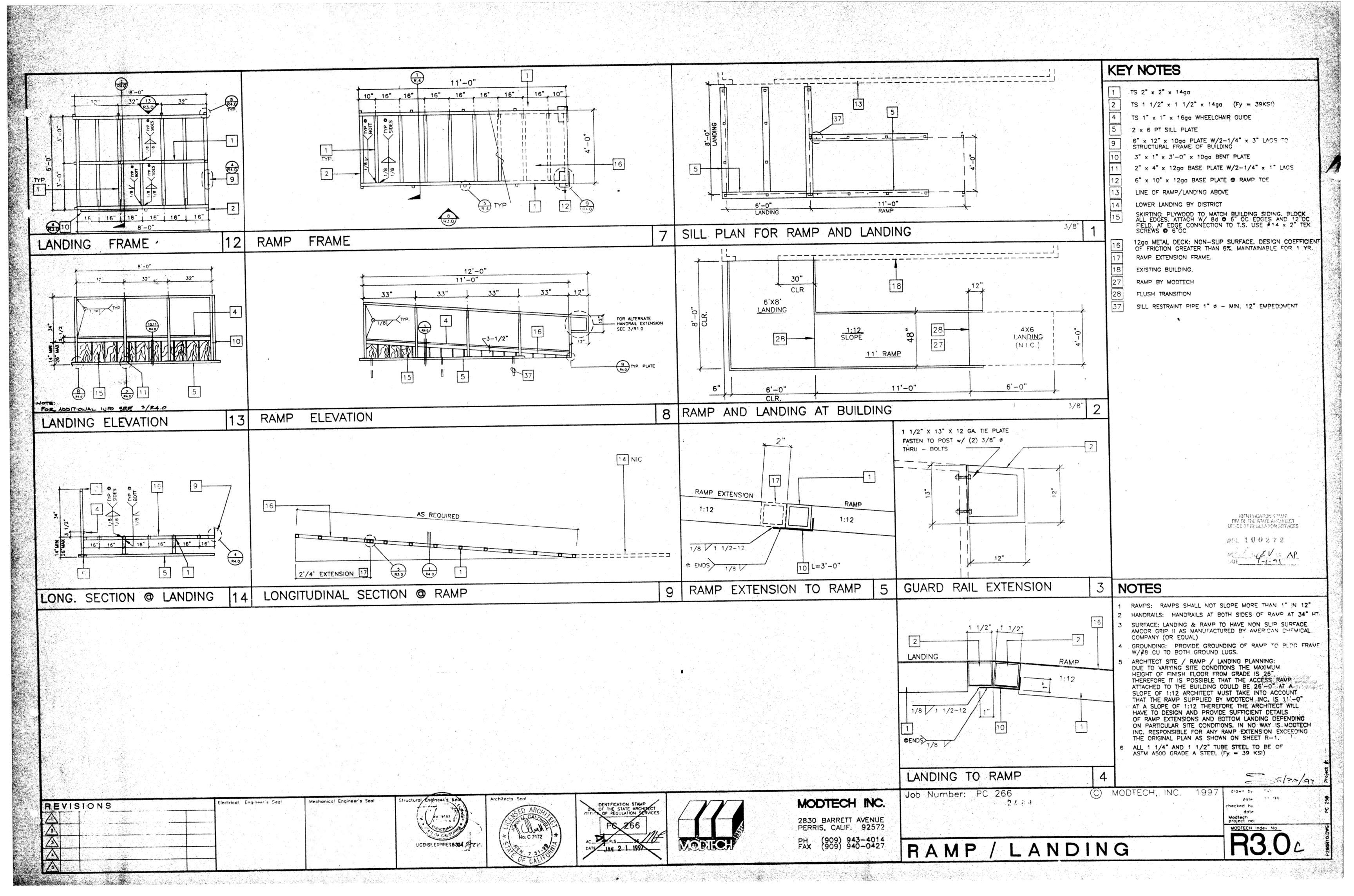
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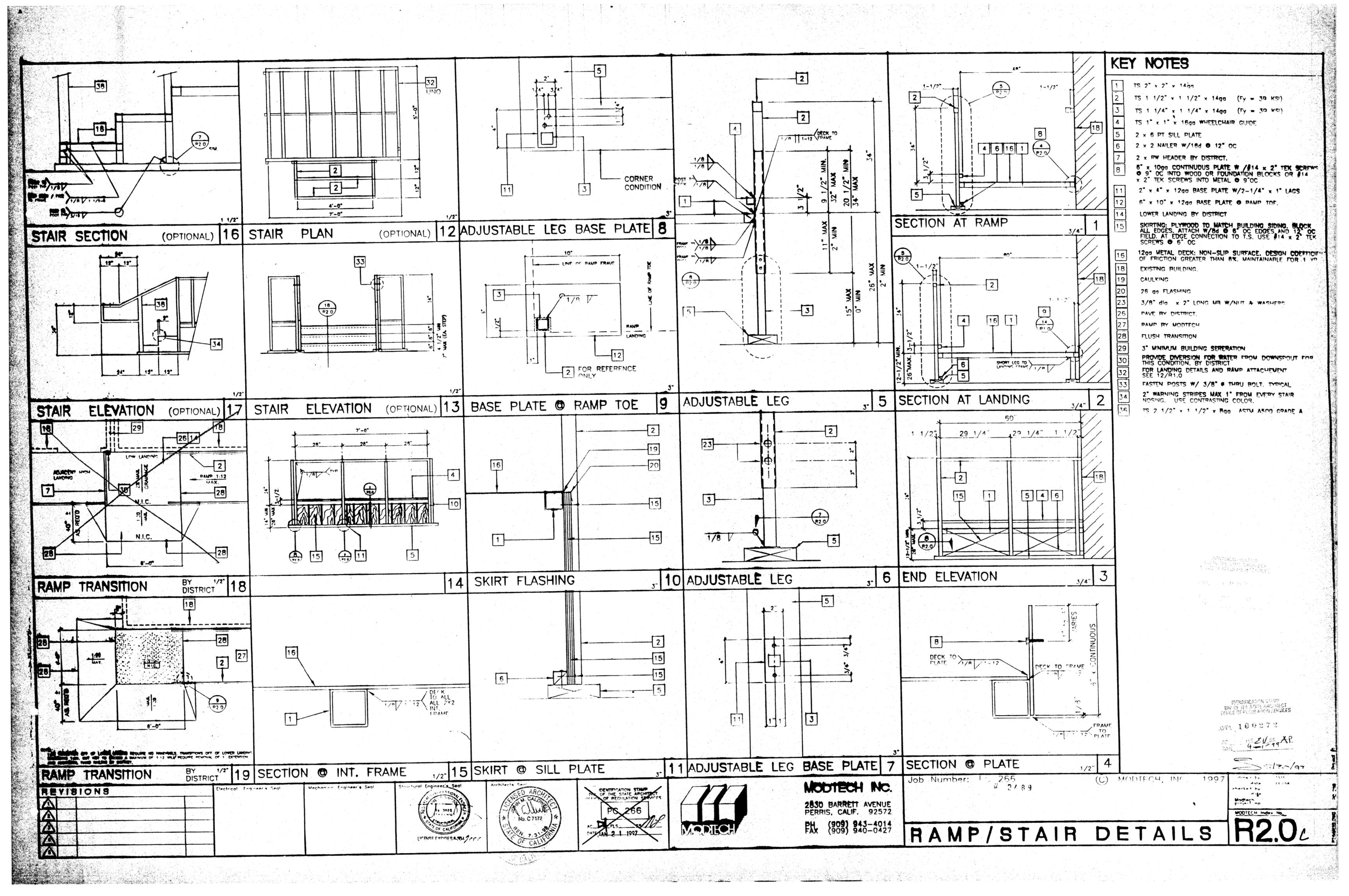
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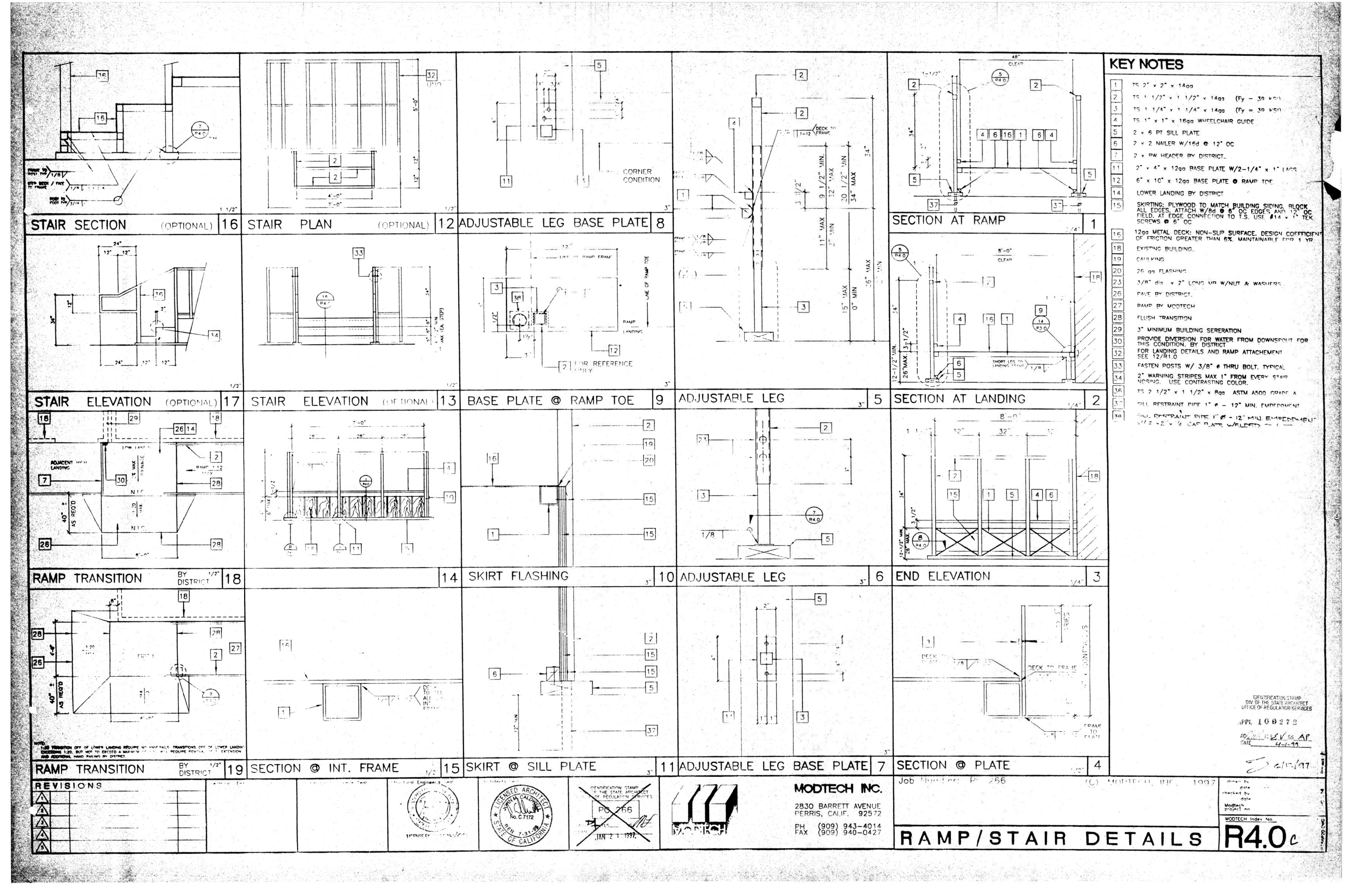


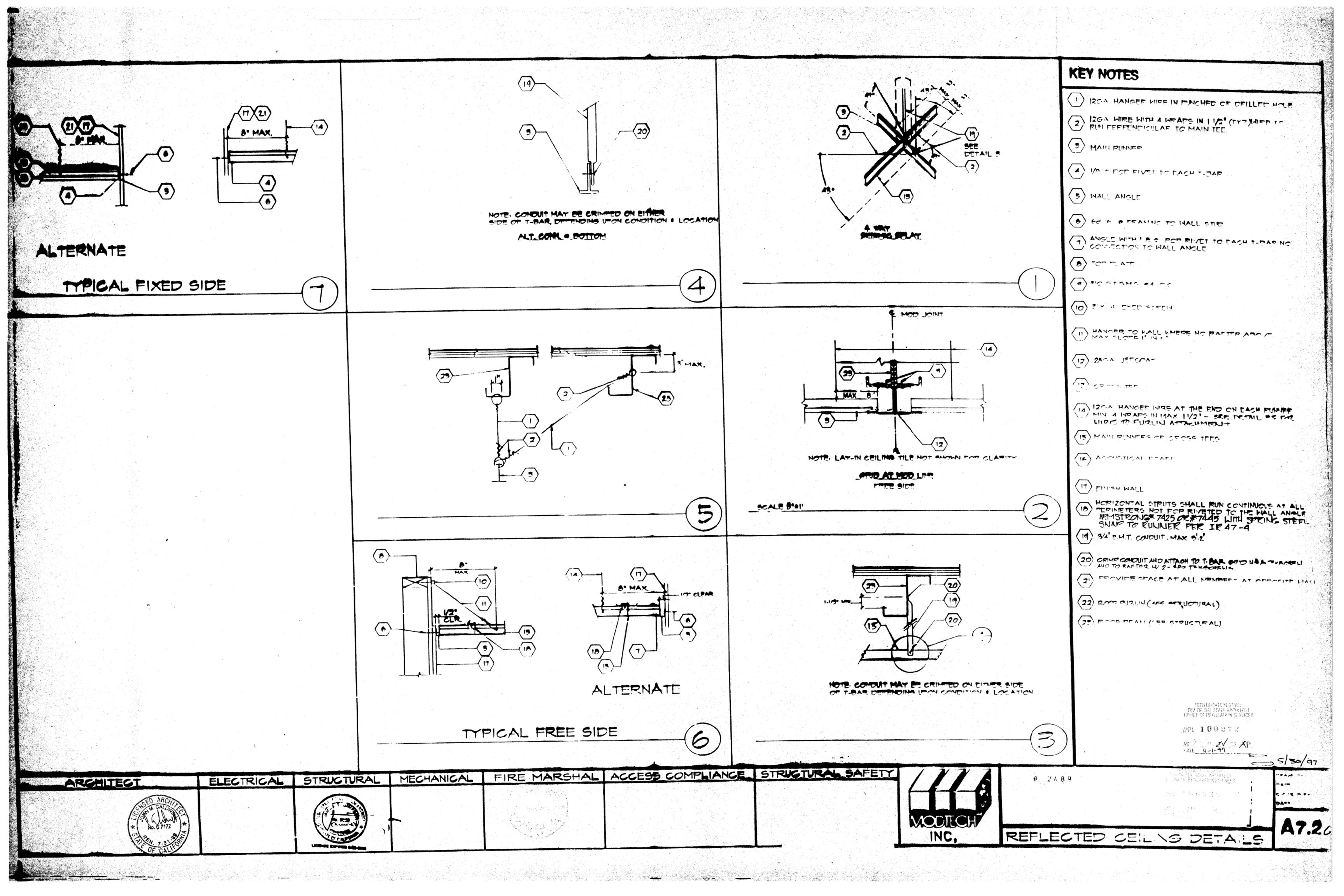


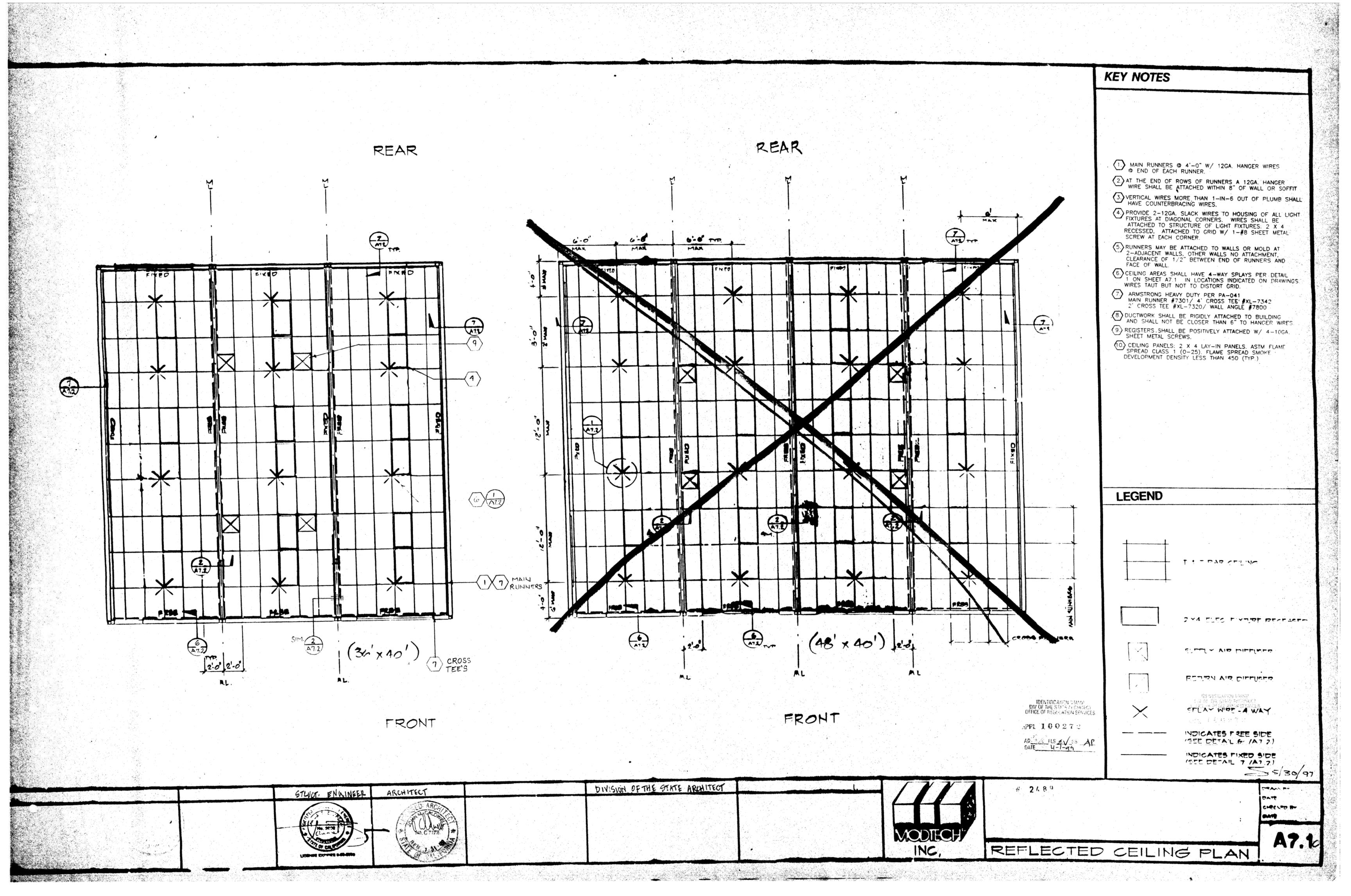




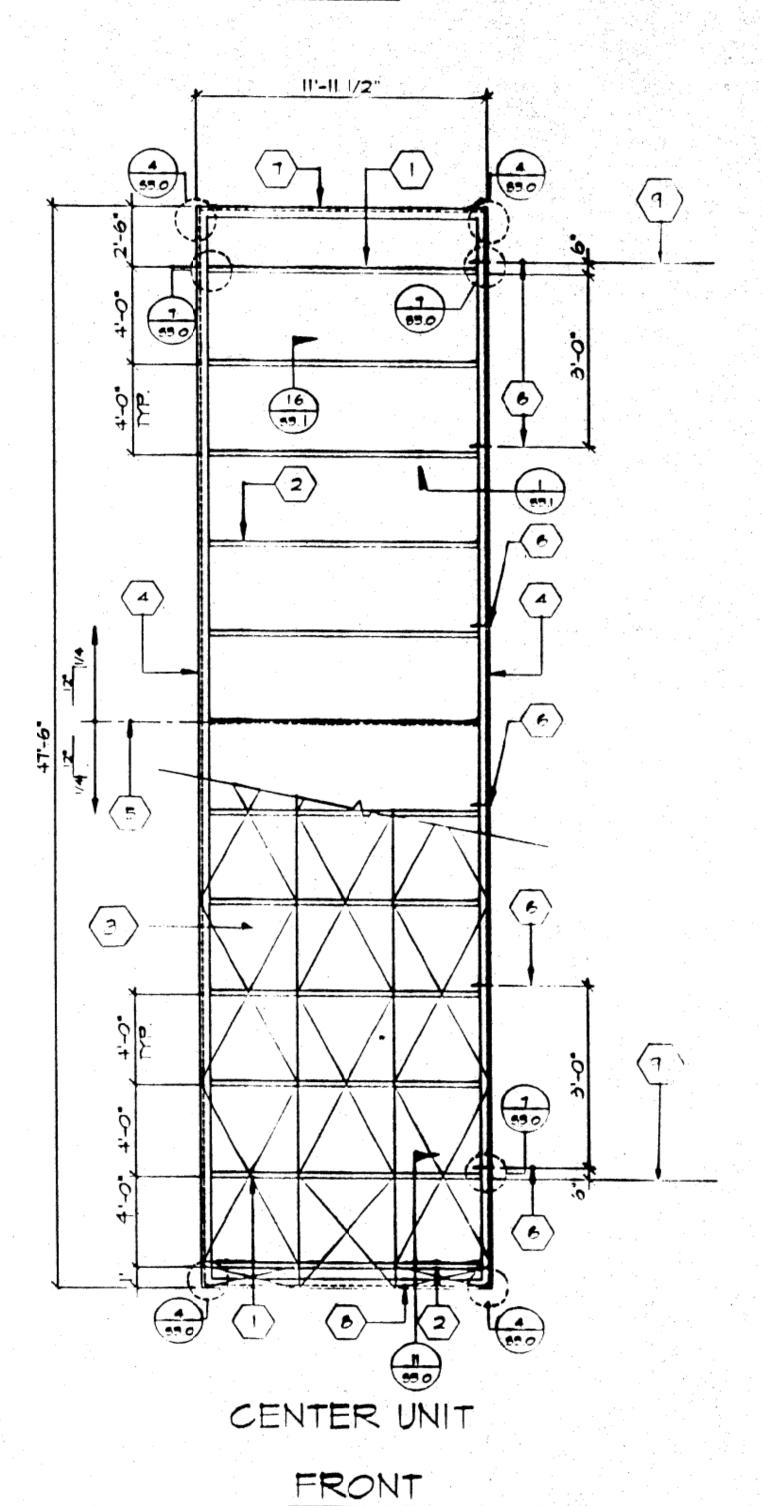








REAR



KEY NOTES

(2) 6"42 1/2" XI4GA, AT 48" CC. (TOP)

TO CIA Y 12GA. THEATTE

PLYWOOD ROOF SHEETING 3/4" CD
EXPOSURE I P.I.I 48/24 PSI-83 PLYCLIPS
AT 16" O.C. LONG EDGES, "10-1-1/4" SELF
TAPPING FLAT HEAD SCREWS AT 6" O.C.
TO PERIMETER FRAME, AEROSMITH AKN 144,0175 DRIVE PINS AT 6" O.C. AT SUFFICITED PLYWOOD PATTERN SHOWN IS TYPICAL THOU

4 TAPERED ROOF BEAM IOGA

5 RIDGE-LINE

(6) WIGO DRILL SEE DETAIL MEAC

T BEEN YIAGA FACIA

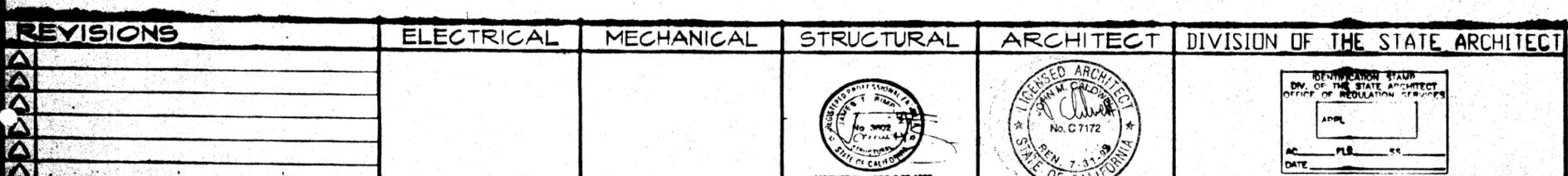
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(a) EN THE LINE

(DUAL SLOPE)

JIDB NO # 2789

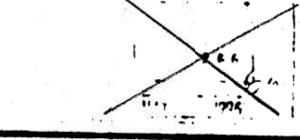
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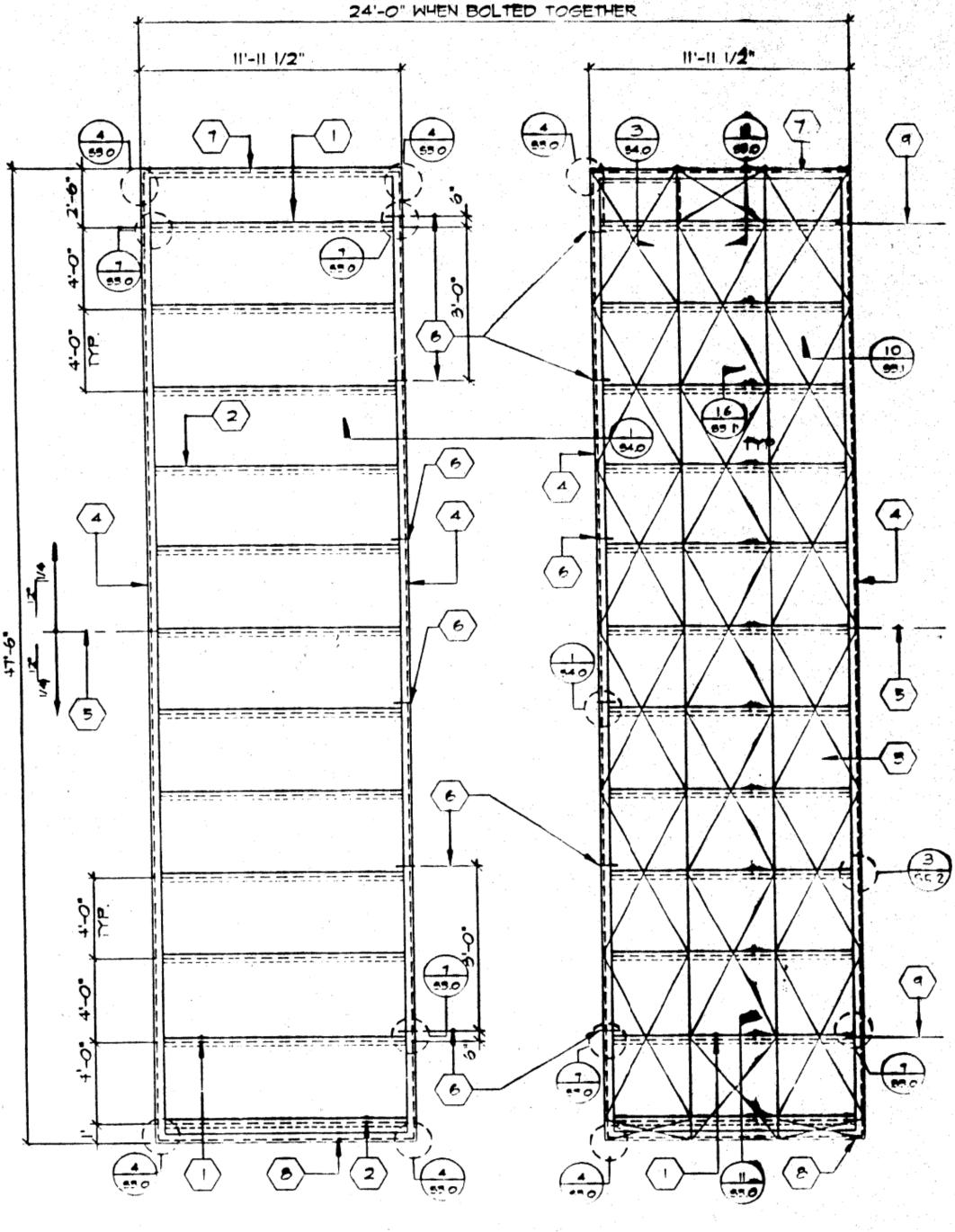
= 5/30/97

NEEVTHICATION STAYP THE STATE WHO NEEDT OUT OF OF REGULATION SERVICES

PPL 100272

AC 1-99

REAR



LT HAND FRAME

RT HAND FRAME

FRONT

ROOF FRAMING PLAN

SCALE 1'441'-0"

MODIECH

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APPE 1002TH

1916 4-1-99 AP

KEY NOTES

(5) RIDGE-LINE

(2) 6"X2 1/2X14GA, AT 48" CC (TYP)

PLYWOOD ROOF SHEETING 3/4" CD EXPOSURE I P.I.I 48/24 PSI-83 PLYCLIPS

AT 16" O.C. LONG EDGES, "10-1-1/4" SELF

TAPPING FLAT HEAD SCREWS AT 8" OC.

EDGES AND 6" O.C. FIELD TO PURLINS

DRIVE PINS 65" OC. FERIMETER!

11/164 DRILL SEE DETAIL 1/54 O

TAPERED ROOF BEAM IOGA

(7) E 13 3/8"YI4GA FACIA

E IS BUTTION FACIA

() EN THIS LINE

144.0125 DRIVE PINS AT 6" O.C. AT SUPPCE

PLYWOOD PATTERN SHOWN IS TYPICAL THE

(ALTERNATE: USE AEROSMITH AKNIAA CITE

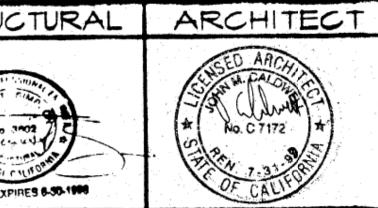
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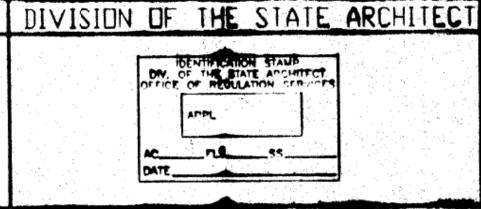
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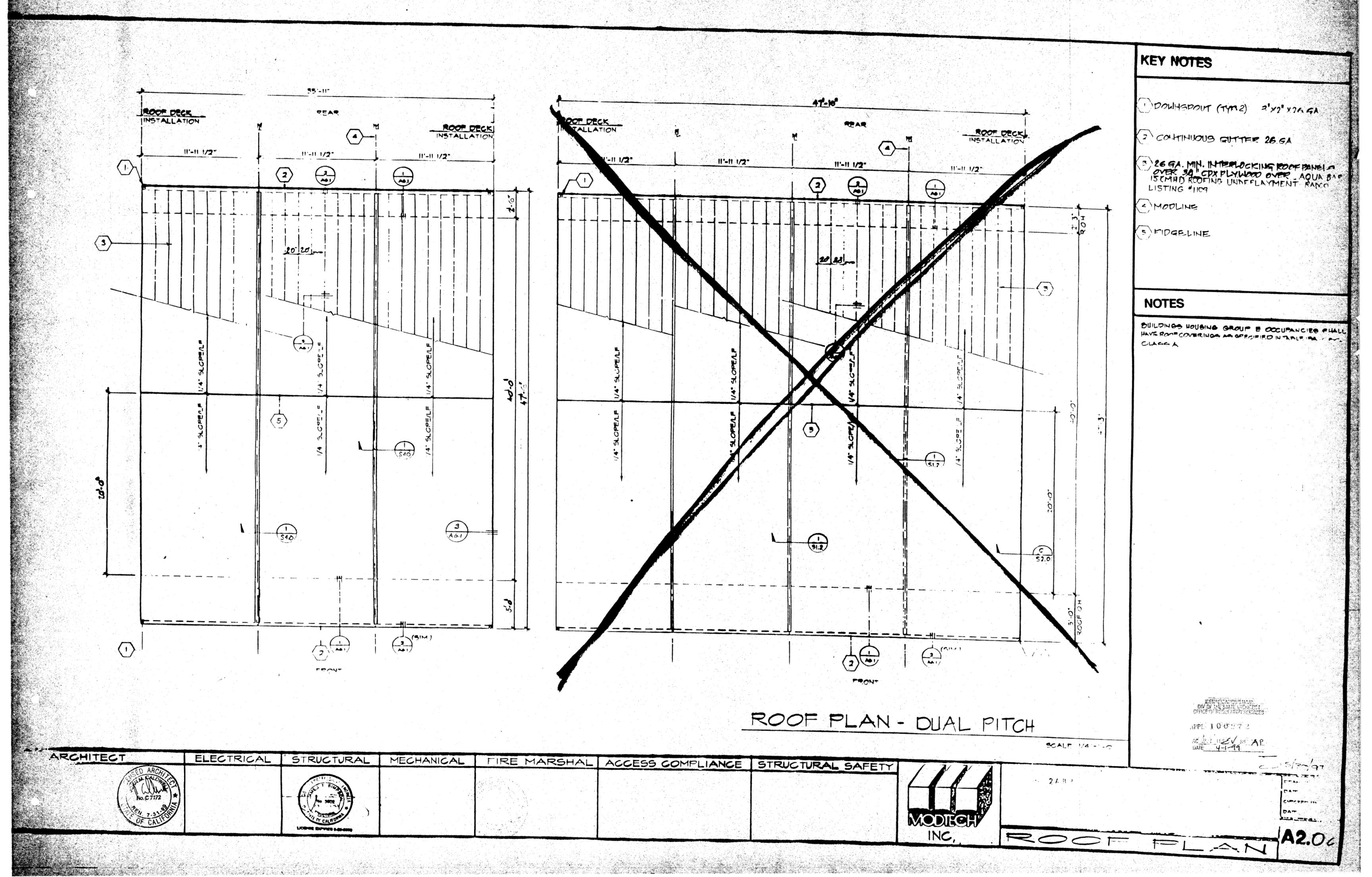
ROOF FRAMING FLAN

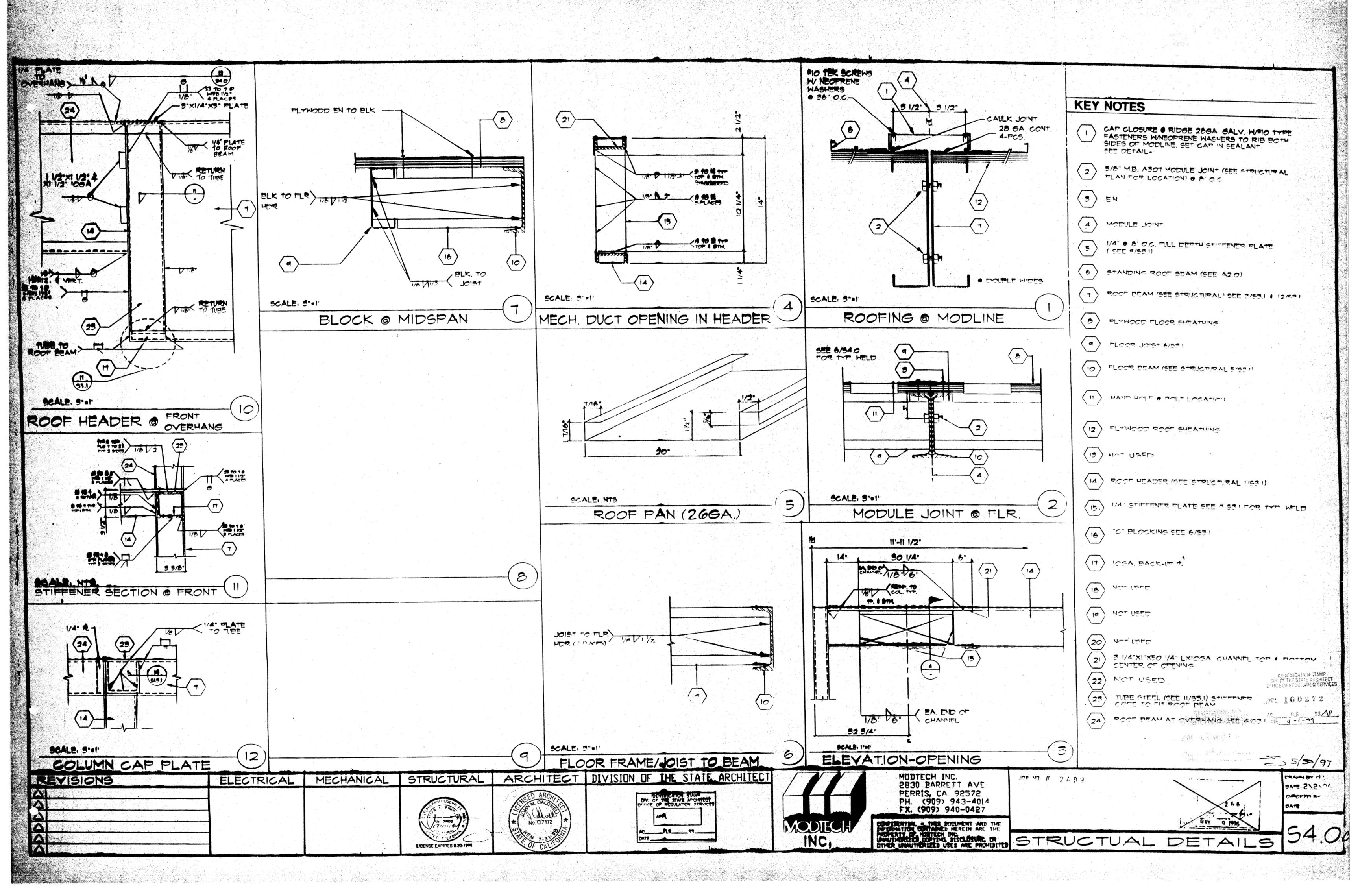
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10 PARAMETER MATERIAL CONTROL 12 12 12 12 12 12 12 12 12 12 12 12 12			SATURE EXPIRES 6

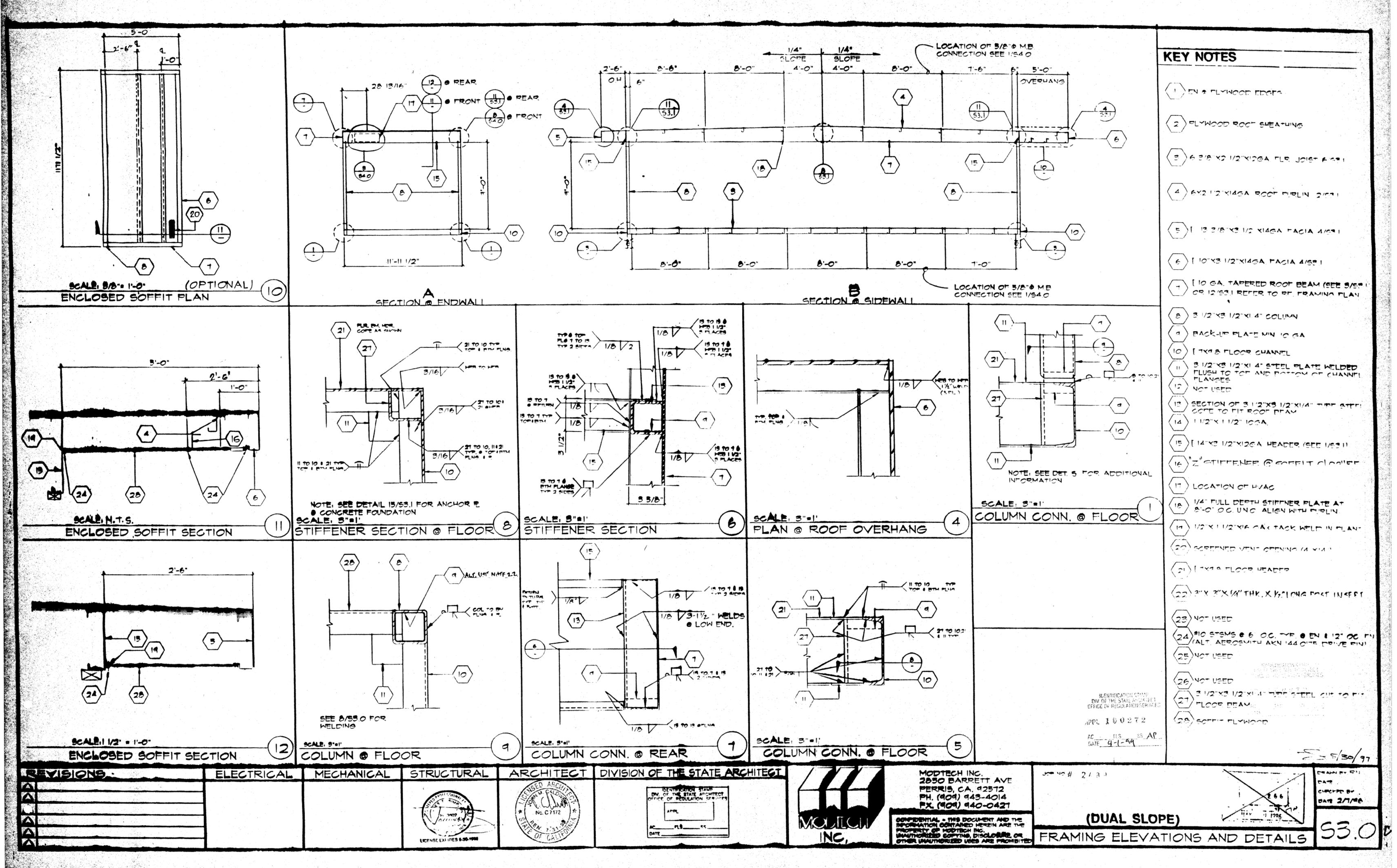


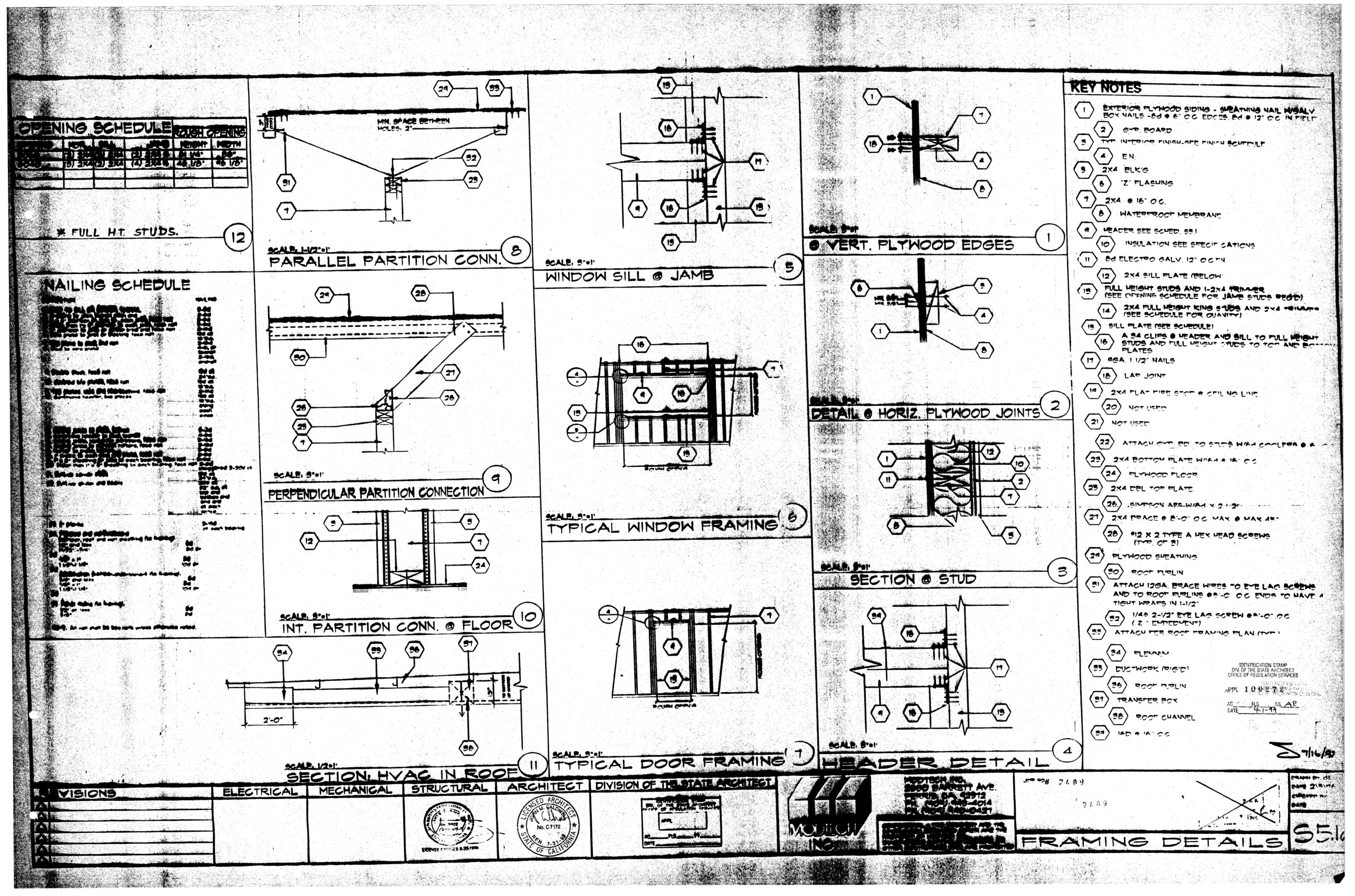


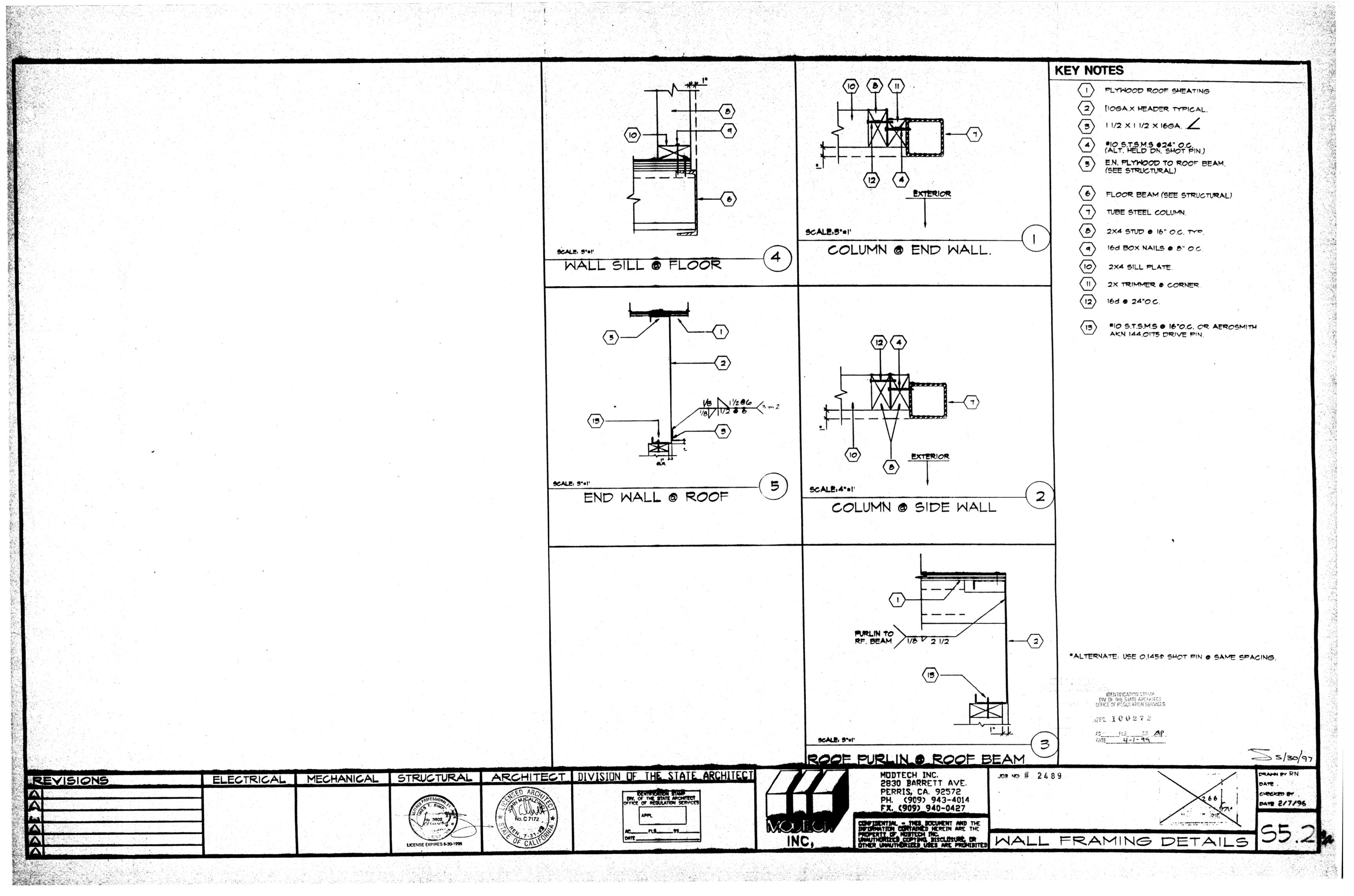


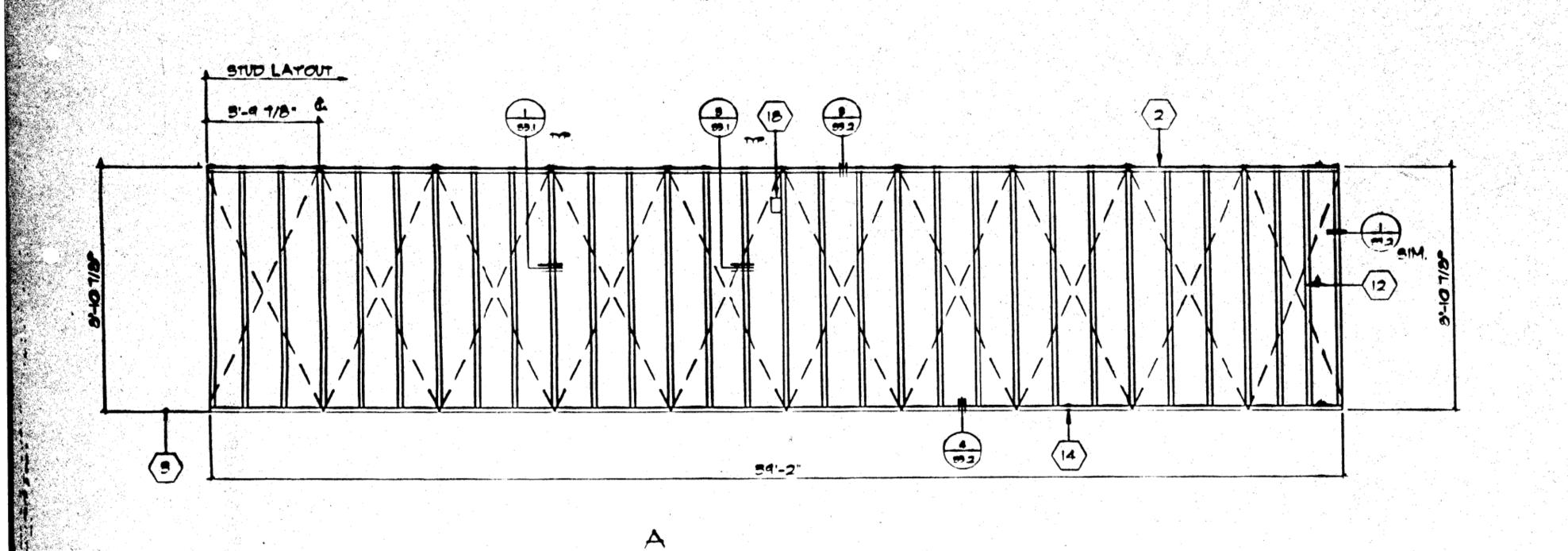




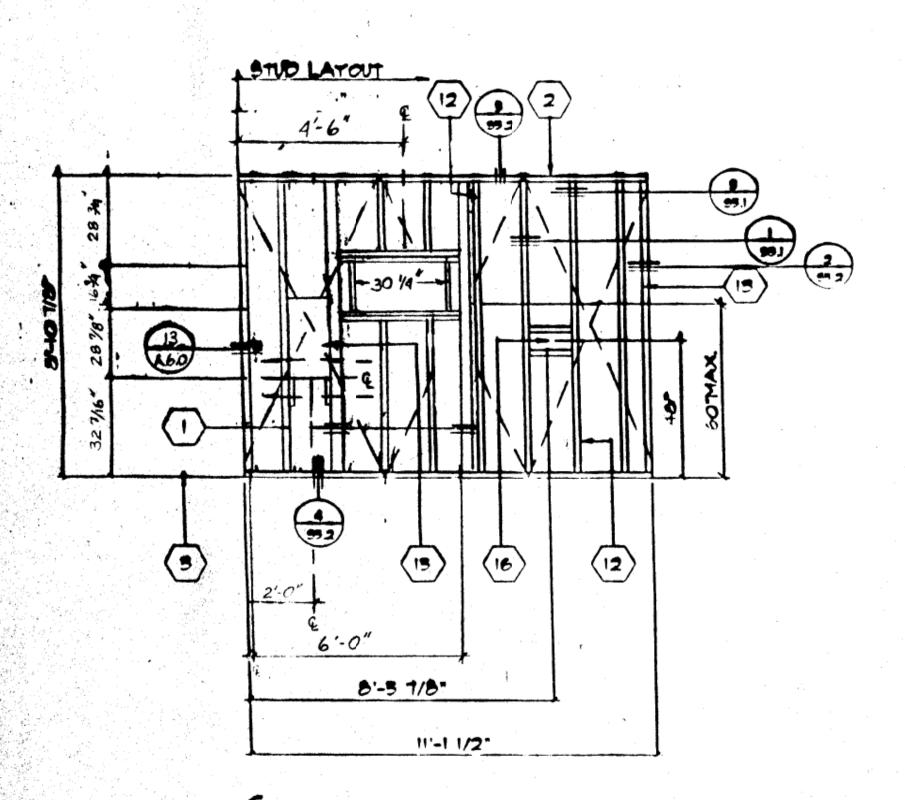




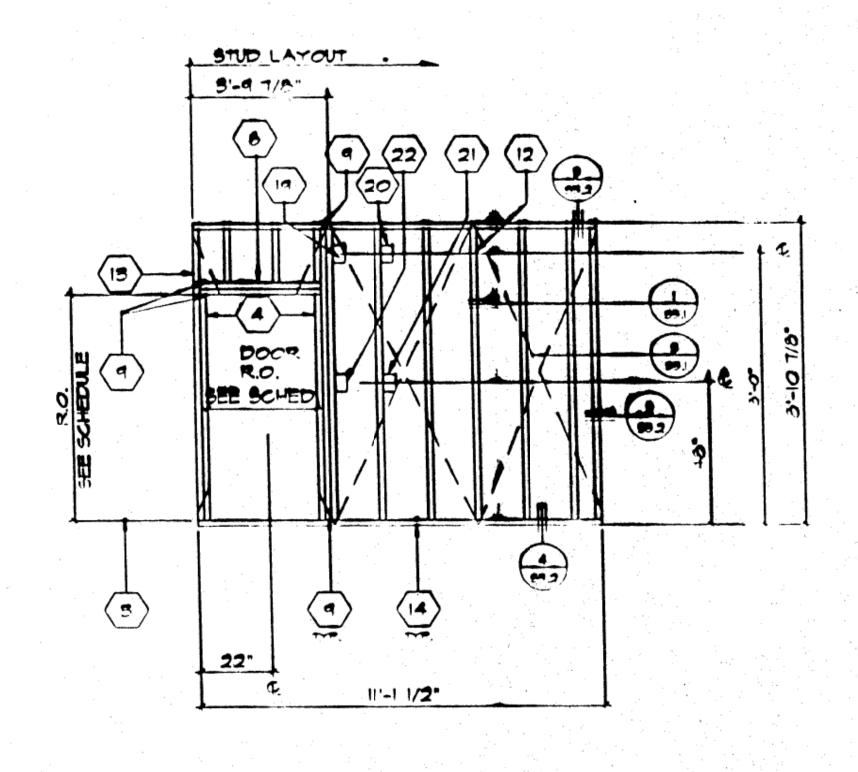




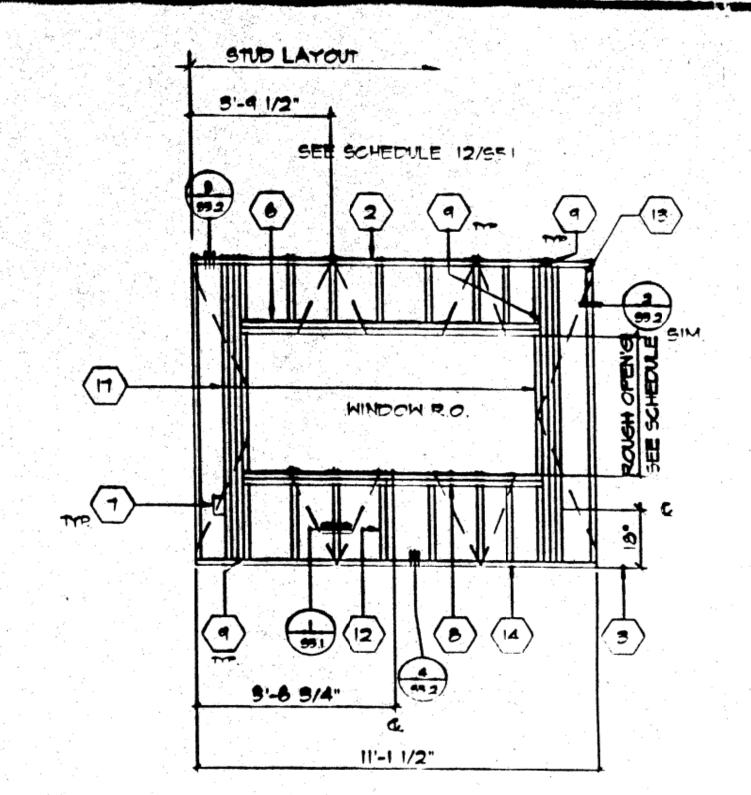
OPPOSITE HAND



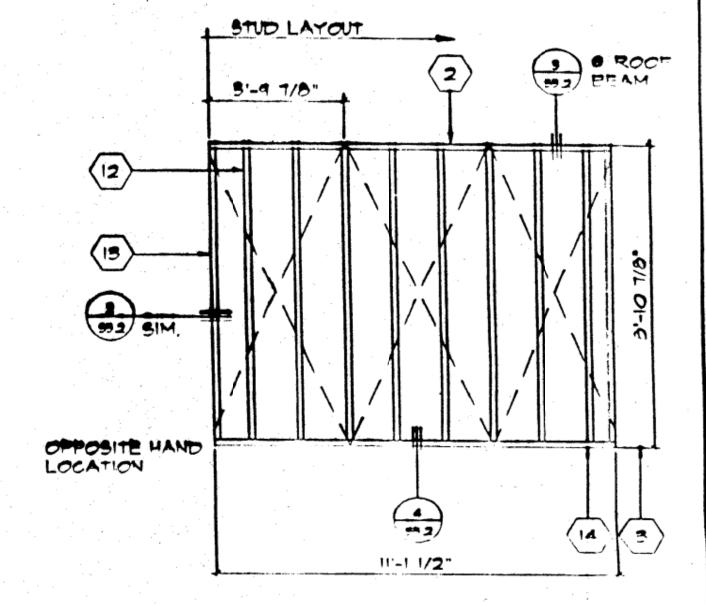
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D, OPPOSITE HAND



OPPOSITE HAND



SCALE S/A"+1"

KEY NOTES

- (I) A Y A POST
- (2) 244 TOP PLATE
- FINISH FLOOR
- 2X4 FULL HGT. KING STUDS AND 2X4 TO MATE
- NOT USED
- HEADER (SEE SCHIDULE)
- DUPLEY CUTLET BOY (TYPINAL)
- MINDOM SILL PLATE (SEE SCHEDULE)
- A 84 CLIPS & HEADER & SILL TO FULL HET STUDS AND FULL HET STUDE TO TOP AND BOTTOM PLATES
- REQUIRED OPENING FOR A 3068 DOOP CETT DETAIL TIES !
- PEGUIPED CLENING LOS V 6040 MINECM GEE DETAIL AGE
- (12) 244 STUD & 16" CS THICAL
- (12) SKY MAILED THICAL O EACH END
- (14) 244 SILL FLATE
- > FRAME FOR ELECTRICAL PANEL
- THERMOSTAT LOCATION AS BOX
- FULL HOT, STUDS AND 1-244 TOIMMER (SEE MINDOW SECULDULE FOR LIAME STUDE
- "J" BOX FOR EXTERIOR LIGHT FIXTHE
- (20) FIRE HORN (TO EXTERIOR)
- (22) MICHTEMITCH BOY

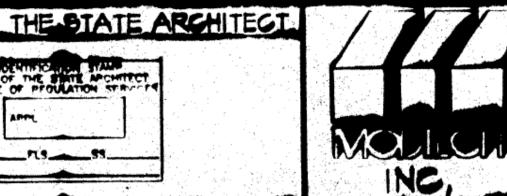
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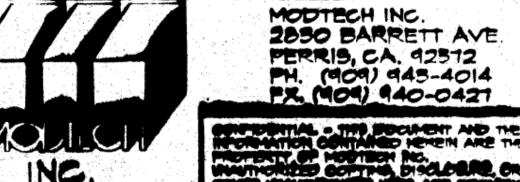
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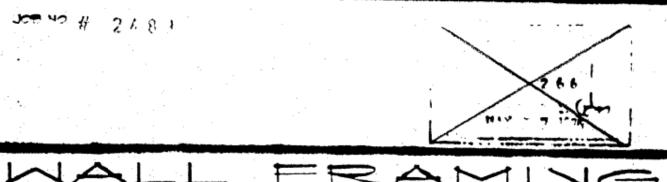
ARMORESTONASTON STATEMENT ROLL SPORTER

计多键型 的一样,只有这种"神经是这种情况。

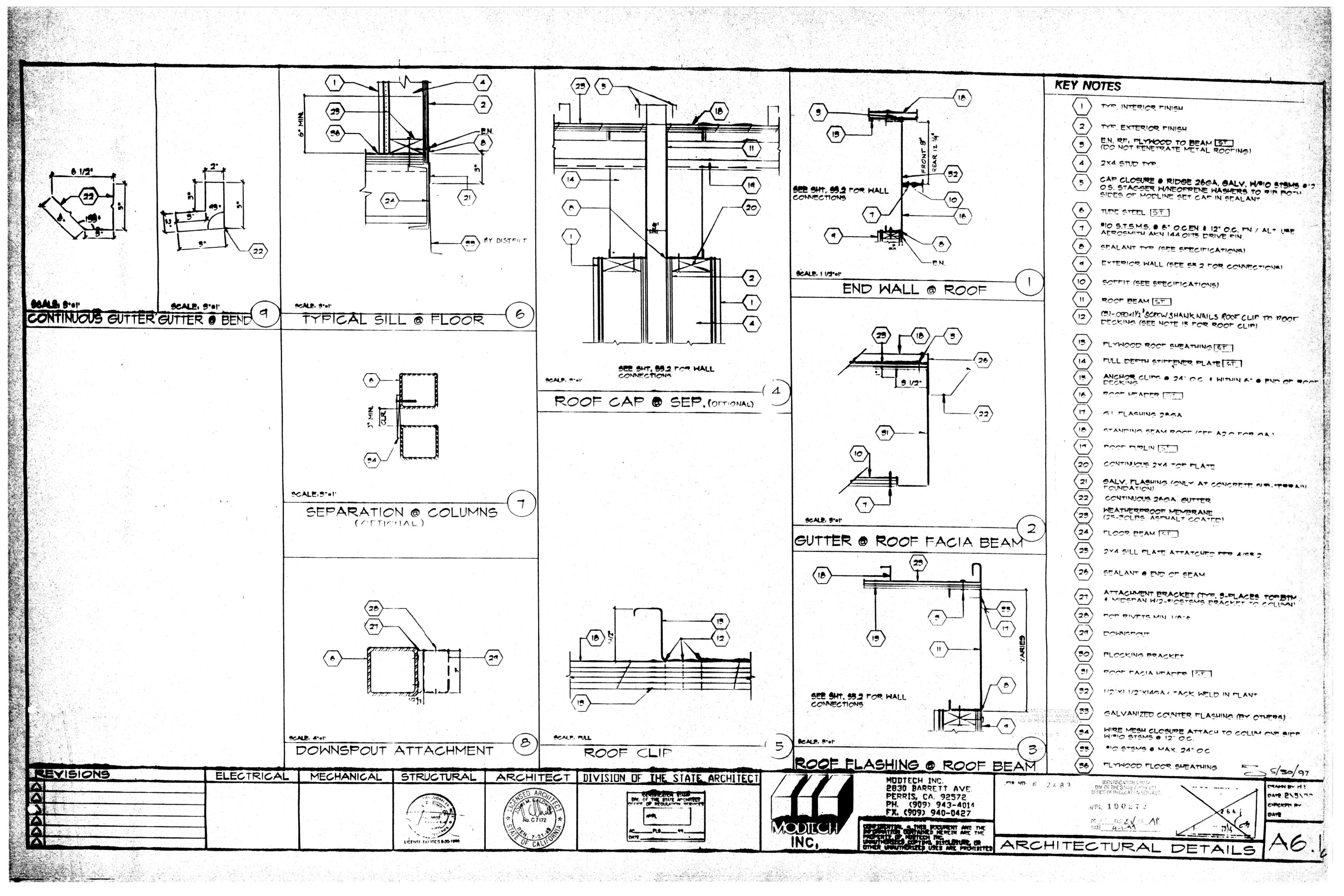
SAIDIONS. ARCHITECT DIVISION OF THE STATE ARCHITECT MECHANICAL STRUCTURAL ELECTRICAL No. C 7172

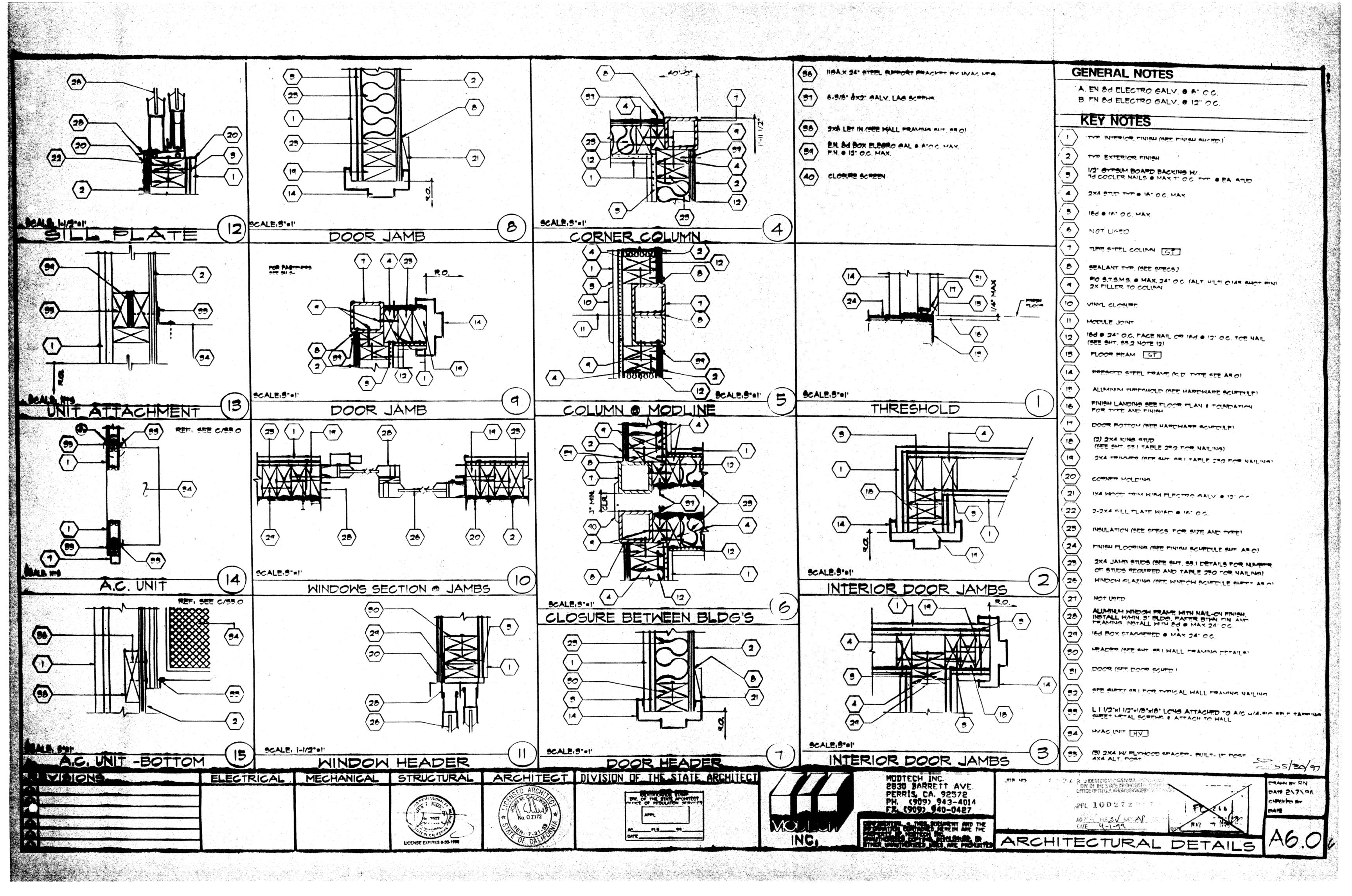






CAYM M- BH CHECKLE BA DATE 2/1/46





MODEL PC 266 36'X40' RELOCATABLE BUILDING

TORRANCE U.S.D.

LEGEND		
SYMBOL	DESCRIPTION	
<u>(1)</u>	DETAIL ON SAME SHEET	
1	DETAIL NAMEER (1) ON SHEET NAMEER (2)	
´ ①	NOTE NO I. ON SAME	
(1)	NOTE NO. 4 ON SHEET	
	HALL PAUPL TYPE 'A' ON	
3	SECTION 'A' ON SHEET (2)	
\triangle	REVISIONICHANSE IN DIM NO. (I), FIRST REVISION	
£01000)	HIGHLIGHTS CHANGED	
0	בוסחכו	
A	MINDOIN	
<u>[3</u>]	SEE STRUC. DWGS.	
[HV]	SEE MECH DUG.	
	SEE FLEC. DUG.	

NOTE: SPECIFICATIONS SUBJECT TO CHANGE DUE TO OSA PEGUIREMENTS AND OR PRODUCT IMPROVEMENTS

MACHINE APPLIED NAILING

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERPORMANCE, MACHINE NAILING WILL NOT BE APPROVED IN 3/16" PLYMOOD IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAITAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

"- "MACHINE APPLIED 16 d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER AND SHALL BE NOT LESS THAN S' IN OVEALL LENGTH."

THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING PROVIDED THE REQUIRED EMBEDMENT IS MAINTINED

TO ALTERNATE FOR ALL PHOT PRE ATTACHMENTS, USE THO B.T.S.M.S. AT THE SAME SPACING,

OFFICE OF REGULATION SERVICES

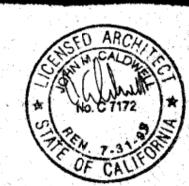
APPL 100272

BUILDING DATA 36'X40'BLD'G. OCCUPANCY. TYPE OF CONSTRUCTION HIND LOAD TO MPH EXP. "C" FLOOR LIVE LOAD 30 + 20 PSF ROOT LIVE LOAD BUILDING AREA STRICTURAL DESIGN RIGID PRAME

APPLICABLE CODES - NEW CONSTRUCTION 1994 UBC AND 1999 CALIFORNIA AMEDMENTS (95 CALIFORNIA BUILDING CODE-PART 2,TITLE 24,CCR)

1993 NEC AND 1999 CALIFORNIA AMEDMENTS (93 CALIFORNIA ELECTRICAL CODE PART 3 TITLE 24,CCR) 1994 UMC AND 1995 CALIFORNIA AMEDMENTS (95 CALIFORNIA MECHANICAL CODE-PART 4,TITLE 24,CCR) 1994 UPG AND 1999 CALIFORNIA AMEDMENTS (95 CALIFORNIA PLUMBING CODE-5 TITLE 24.CCR)
1994 UNIFORM FIRE CODE MITH STATE AMEDMENTS (CALIFORNIA CODE-PART 9,TITLE 24.CCR)
1994 BUILDING STANDARDS CODE (95 STATE REFERENCED STANDARDS CODE-PART 12.CCR)
TITLE 19.C.R., FUBLIC SAFETYSTATE FIRE MARSHALL REGULATIONS.



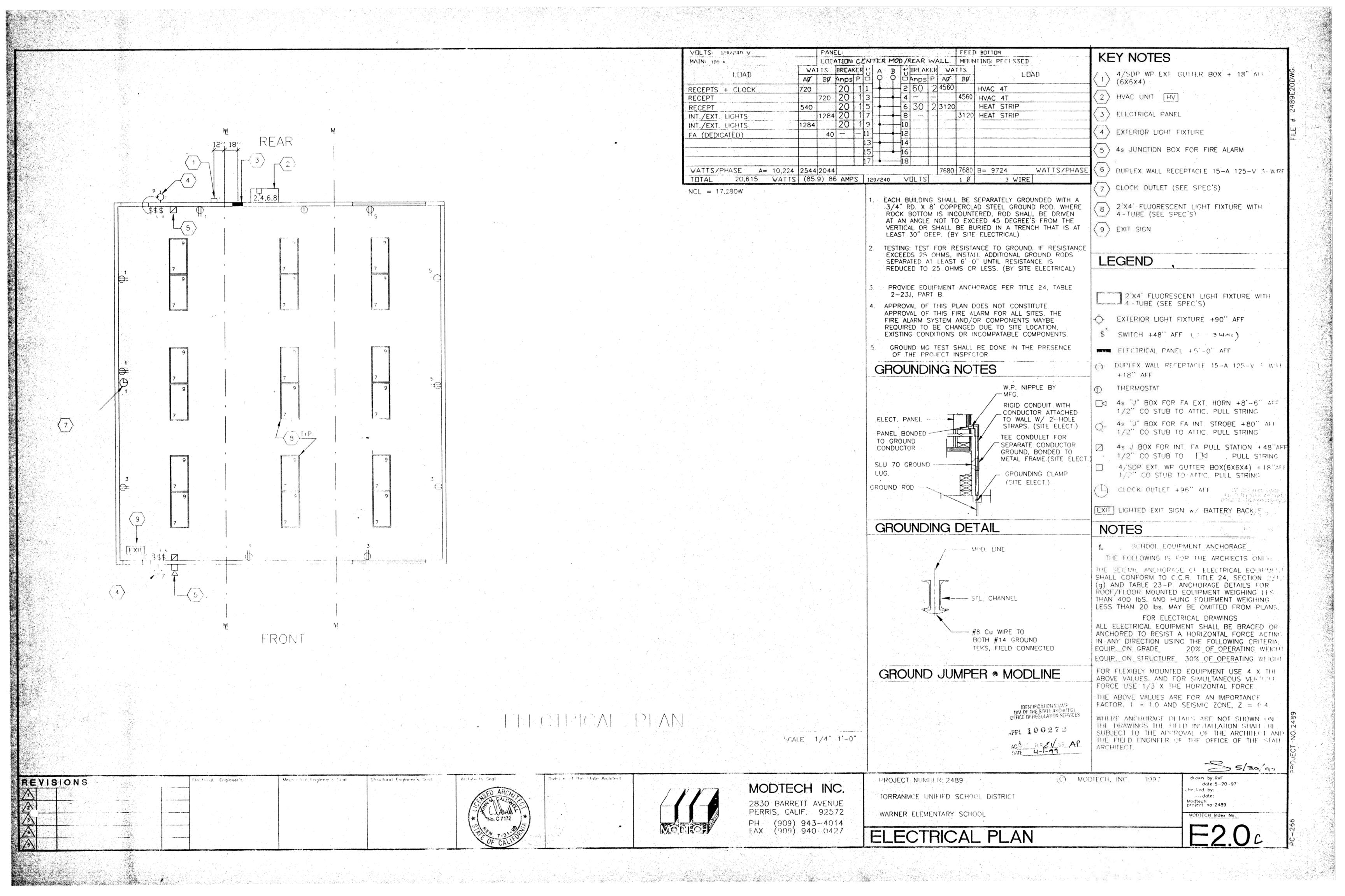


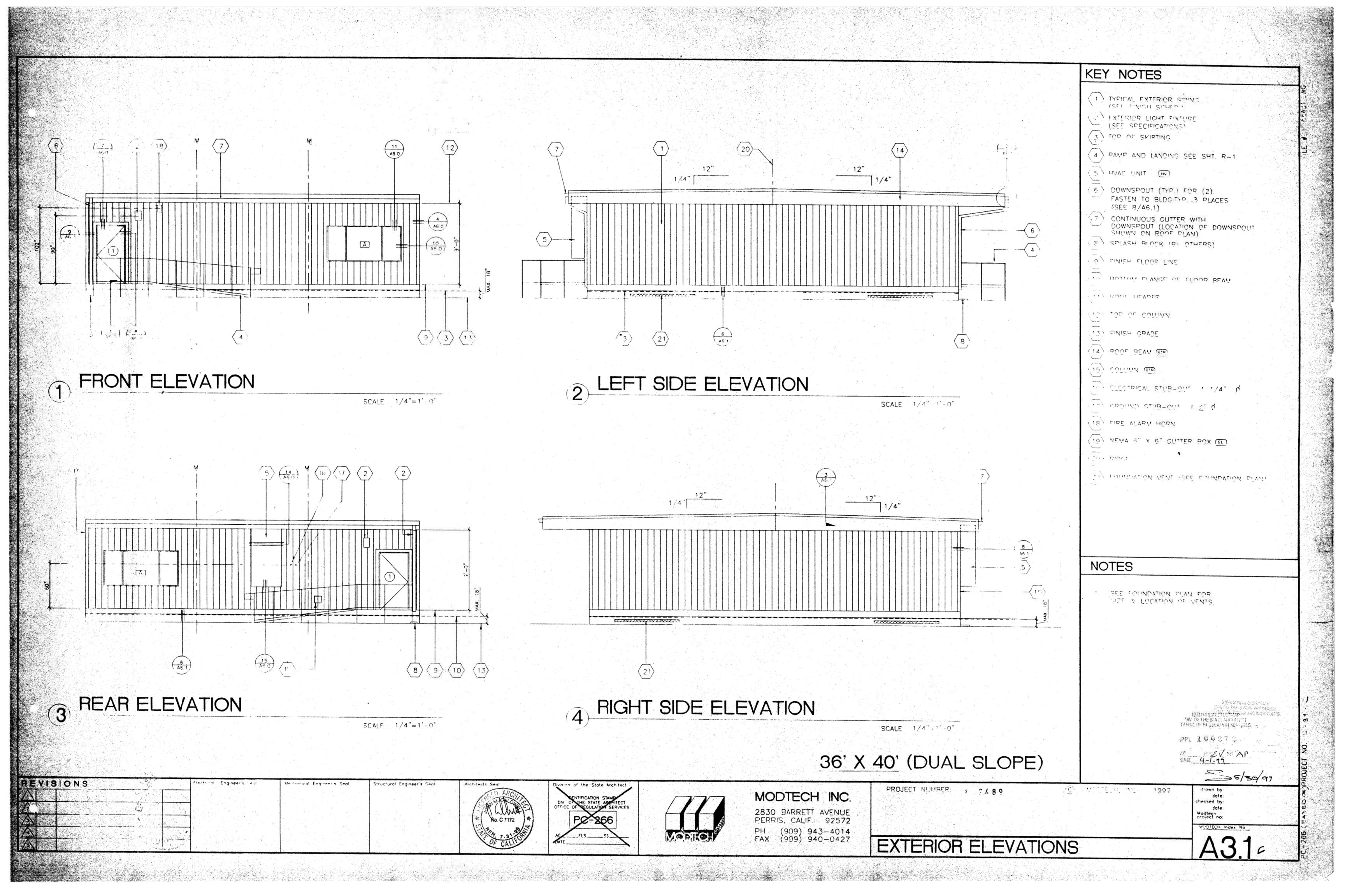
SHEET INDEX AO - COVER SHEET ALO - FLOOR PLAN A2.0 - ROOF PLAN (DUAL SLOPE) AADO ROOF PLAN (MONO SLOPE) AS.O - EXTERIOR ELEVATIONS (DUAL SLOPE) AASIO - EXTERIOR ELEVATIONS MONO SUPERIL A4.0 - INTERIOR ELEVATIONS AS O - FINISH SCHEDULE A6.0 - ARCHITECTURAL DETAILS AG.I - ARCHITECTURAL DETAILS METAL STUDS AS IM ARCHITECTURAL DETAILS METAL STUDS AT.I - REFLECTED CEILING PLAN AT.2 - REFLECTED CEILING PLAN DETAILS FI.2 - FOUNDATION PLAN WOOD SILL 130- FOUNDATION DETAILS HOOD SILL -SH-- PLOCE PRAMING PLAN CONTRA MODRE SALO - FLOOR FRAMING PLAN END MODULES (50+20 PSF) SALL - FLOOR FRAMING PLAN CENTER MODULES (30-20 PSF) 52.0 - ROOF FRAMING PLAN END MODULES (DUAL) 52.1 - ROOF FRAMING PLAN CENTER MODULES TOUAL SAZO - ROOF FRAMING PLAN END MODILES DICHO SAZIL-ROOF FRAMING PLAN CENTER MODILES MONE 53.0 - STRUCTUAL ELEVATIONS AND DETAILS (DUAL) 55.1 - FRAMING ELEVATIONS AND DETAILS (DUAL) SASO STRUCTUAL ELEVATIONS AND DETAILS (NEWS) SASI - FRAMING ELEVATIONS AND DETAILS INDIE 54.0 - STRUCTUAL DETAILS 55.0 - WALL FRAMING 55.1 - WALL FRAMING DETAILS 35.2 - WALL FRAMING DETAILS M20- HVAC PLAN ELO - ELECTRICAL PLAN R 3.0- RAMP/LANDING RIO - RAMP PLAN 720 - RAMPISTAIRS DETAILS

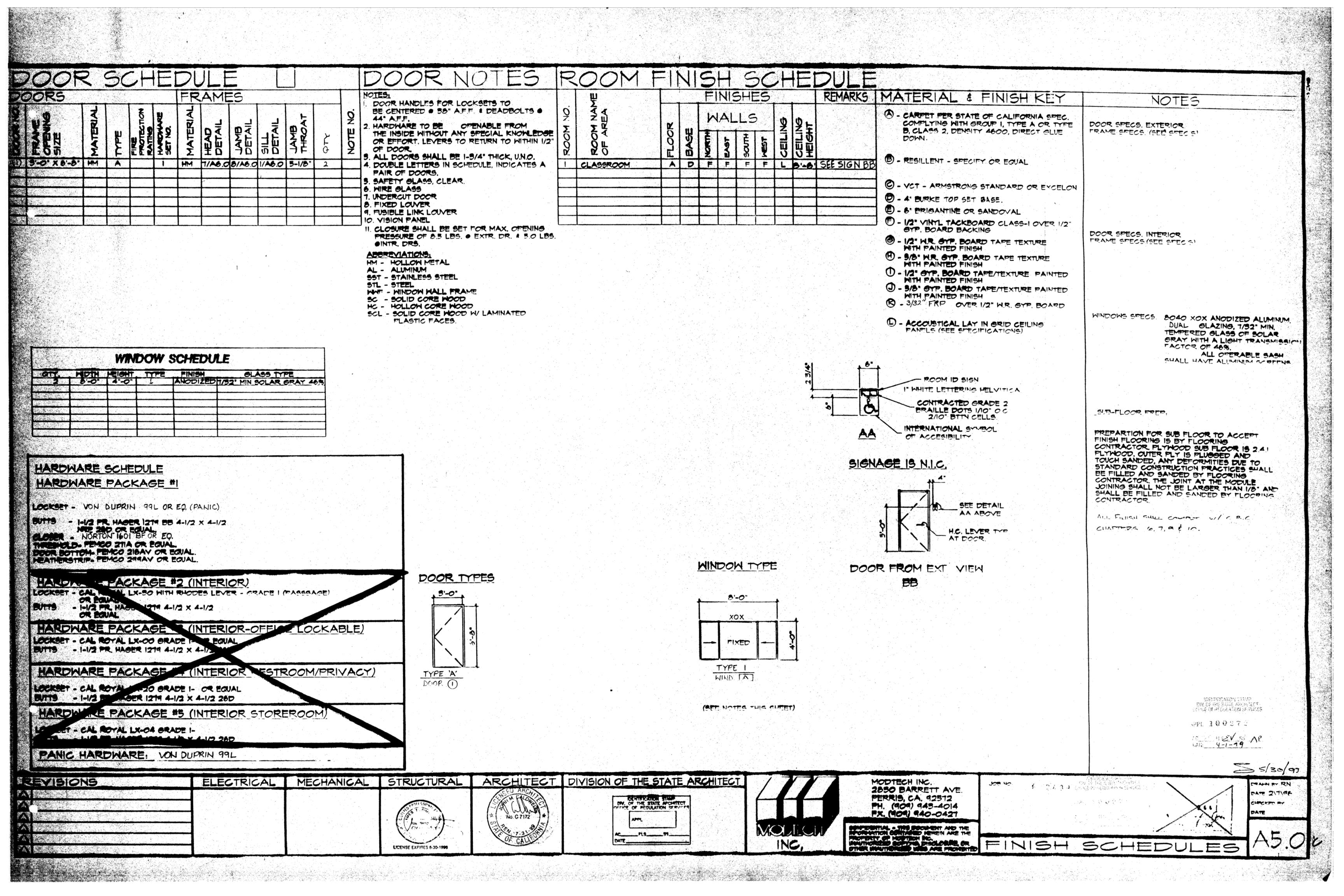
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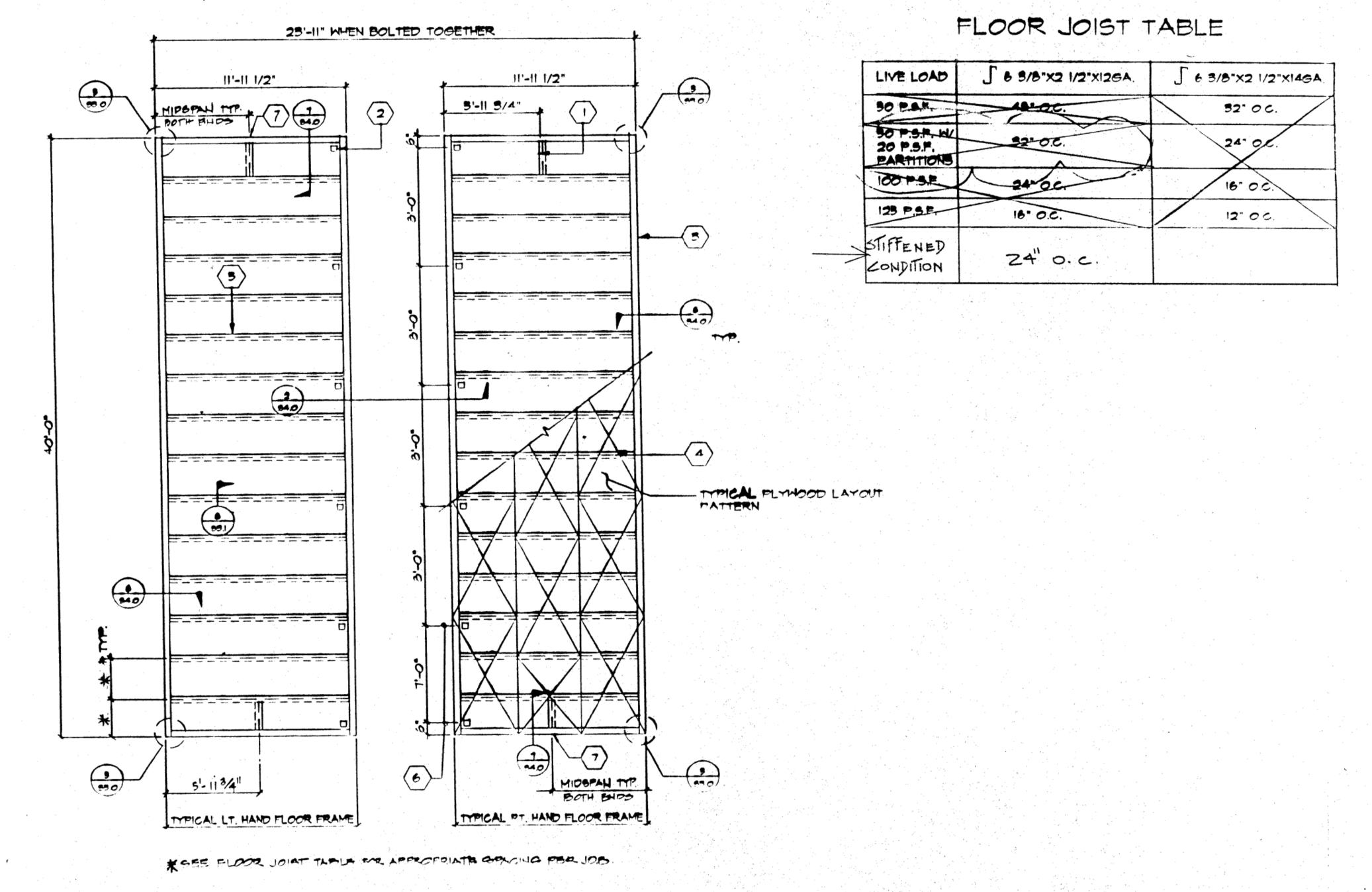












KEY NOTES

- 6 3/8 x 2 1/2 x 126A, BLOCKING ATMIDSPAN OF FLOOR HDR. TYPICAL
- 5"SQ.HAND HOLES AT BOLT BY TO BY (12 PLACES)
- (5) C TX4.8 PERIMETER CHANNEL (TYPICAL)
- PLYWOOD FLOOR SHEATHING. APA PS 1-83 | 1/8" THICK, STURD-1-FLOOR W/48" O.C. SPAN RATING, ATTACHED WILLO X 1 5/4" SELF-TAPPING FLAT HEAD SCRENS AKN 144,0175 DRIVE PING AT 6" O.C. SUPPORTED EDGES AND 10" OC FIELD TO JOIST (TYPICAL)
- (5) 6 8/8 X 2 1/2 X 1264, FLOOR FURLIN 6 32" 0.0.
- 6 TYPICAL BOLT HOLE LOCATION (SEE FOUND, DETAILS)
- 7) 1/4 HOLF & MIC-DED-LI TOR HANDLINE

IDENTIFICATIONE、我的ACTION SERVICES DIV OF GIESTATE OF CHIEF I APPL 100272

SATE 4-1-99 AP

FLOOR FRAMING PLAN

50 PSF + 20 PSF PARTITIONS LL

SCALE 1/4"-1'-0"

Joe 4 2489

- >5/30/91 MANN OF

MODTECH INC. 2850 BARRETT AVE. PATE 2-8-0A PERRIS, CA. 92572 PH. (904) 943-4014 FX. (904) 940-0427 CHECKEN BY DATE No. C7172 PROPERTY OF HOUTEN NO. THE UNAUTHORIZED USES ARE PROPERTY OF HOUTEN ARE THE UNAUTHORIZED USES ARE PROPERTY OF HOUTEN DISCLOSURE OR FLOOR FRAMING PLAN

DIVISION OF THE STATE ARCHITECT

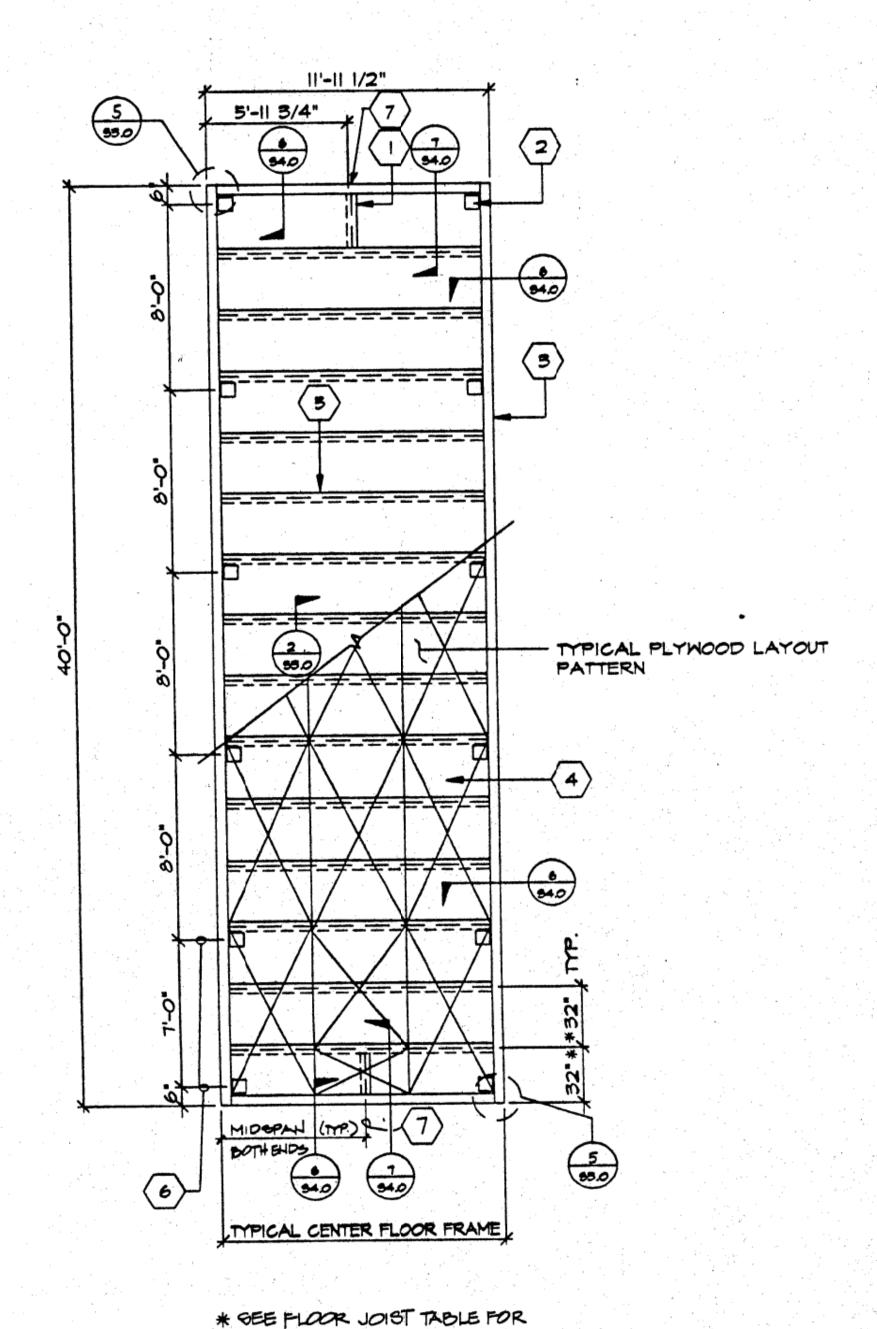
ARCHITECT

STRUCTURAL

MECHANICAL

REVISIONS

ELECTRICAL



APPROPRIATE GRACING PER JOB

FLOOR JOIST TABLE

LIVE LOAD	∫ 6 5/8"×2 1/2"×126A.	∫ 6 3/8"X2 1/2"X14GA.
50 P.S.F.	48" O.C.	30°0C
50 P.S.F. W 20 P.S.F. PARTITIONS	32" O.C.	24" O.C.
100 P.S.F.	24° O.C.	16" 0.6
125 P.S.F.	16" O.C.	12" O.C.

KEY NOTES

- C 7 X 3 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
- 2 5"sq. HAND HOLES AT BOLT BM TO BM (12 PLACES)
- 3 C TX9.8 PERIMETER CHANNEL (TYPICAL)
- PLYWOOD FLOOR SHEATHING:
 APA PS 1-83 | 1/8" THICK, STURD-1-FLOOR
 W48" O.C. SPAN RATING. ATTACHED W*10
 X | 3/4" SELF-TAPPING FLAT HEAD SCREWS
 AT 6" O.C. TO PERIMETER FRAME, AEROSMIT AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 10" O.C. FIELD TO JOIST. (TYPICAL)
- 5 7 X 3 X 12GA, FLOOR PURLING
- 6 TYPICAL BOLT HOLE LOCATION (SEE FOUND. DETAILS)
- (7) 16" & HOLE @ MID-DEPTH FOR HANDLING.

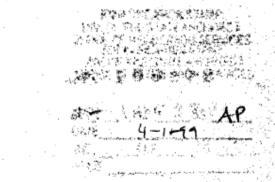
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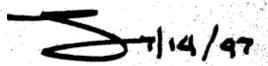
A. FOR L.HAND & R.HAND FRAME SEE SI.O

FLOOR FRAMING PLAN

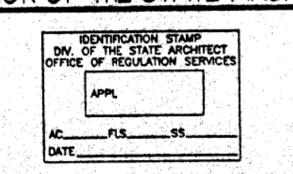
50 PSF + 20 PSF PARTITION LL

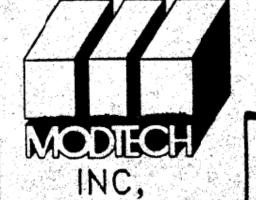
SCALE 1/4"=1'-0"





DIVISION OF THE STATE ARCHITECT STRUCTURAL MECHANICAL ELECTRICAL REVISIONS DIV. OF THE STATE ARCHITECT

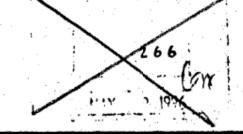




MODTECH INC. 2830 BARRETT AVE. PERRIS, CA. 92572 PH. (909) 943-4014 FX. (909) 940-0427

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JOB NO: 2489



DRAWN BY OE DATE 2-8-96

FLOOR FRAMING PLAN

