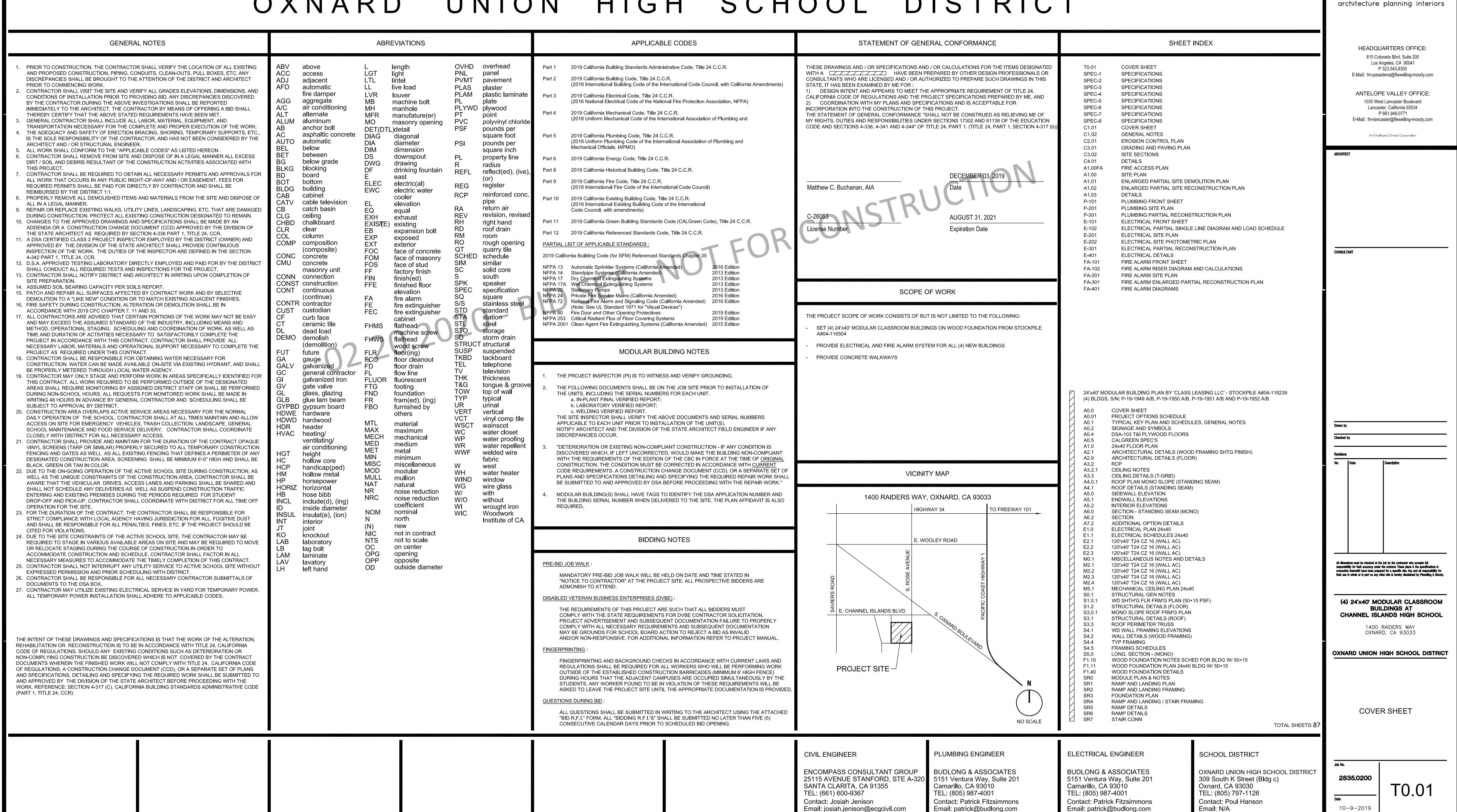
'4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL

1400 RAIDERS WAY OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

FLEWELLING & MOODY



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SECTION 02 41 19 DEMOLITION

1.00 GENERAL

1.01 SCOPE: FURNISH MATERIALS AND PERFORM LABOR REQUIRED TO EXECUTE THIS WORK AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS NECESSARY TO COMPLETE THE CONTRACT, INCLUDING, BUT NOT LIMITED, THESE MAJOR ITEMS:

A. PROTECTION OF EXISTING WORK TO REMAIN.

B. BARRICADES, LIGHTS, SIGNS AND SAFETY PRECAUTIONS REQUIRED BY THE GOVERNING CODE. NOTE THE REQUIREMENTS FOR MOVEMENT TO ACCOMMODATE

DUST CONTROL

REMOVAL AND DISPOSITION OR SALVAGE (WHERE SPECIFIED) OF ALL SURPLUS MATERIAL RESULTING FROM THIS WORK.

E. REMOVAL OF UTILITY LINES (GAS, WATER, ELECTRIC, SEWER), AND STRUCTURES INDICATED FOR ABANDONMENT, AND SUCH LINES AND STRUCTURES NOT SHOWN BUT ENCOUNTERED IN THE COURSE OF THE WORK.

F. REMOVAL OF VEGETATION, INCLUDING IRRIGATION SYSTEM.

G. CUTTING AND REMOVAL OF SLABS, FOOTINGS, WALKS, PAVING, CURBS, GUTTERS, PITS AND OTHER UNDERGROUND STRUCTURES.

H. REMOVAL OF LIGHT STANDARDS, SIGN POSTS, FENCES, AND MISCELLANEOUS STRUCTURES.

1.02 GENERAL REQUIREMENTS

A. CODES: PERFORM ALL WORK IN ACCORDANCE WITH THE BUILDING CODE OF THE GOVERNING BODY HAVING JURISDICTION, THE GOVERNING STATE INDUSTRIAL SAFETY ORDERS, AND THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT.

B. NOISE CONTROL: CARRY ON ALL WORK IN A MANNER WHICH WILL PRODUCE THE LEAST AMOUNT OF NOISE. INSTRUCT ALL WORKMEN IN NOISE CONTROL PROCEDURES. ADHERE TO ALL LOCAL ORDINANCES WITH REGARDS TO WORK HOURS. 2.00 MATERIALS

2.01 BARRICADES

A. CHAIN LINK FENCING, SIX FEET HIGH MINIMUM WITH SCREENING FABRIC. 3.00 EXECUTION

3.01 DUST CONTROL

A. USE WATER AS REQUIRED TO ALLAY DUST IN EARTH AREAS. USE NO OTHER AGENT WITHOUT THE SPECIFIC APPROVAL OF THE ARCHITECT. COMPLY WITH ALL LOCAL DUST CONTROL ORDINANCES.

3.02 PROTECTION OF WORK TO REMAIN

A. USE STAKES, BARRICADES, AND SUCH OTHER MEANS OF PROTECTION AS REQUIRED TO PREVENT DAMAGE TO EXISTING WORK THAT IS INDICATED TO REMAIN.

3.03 CLEAN-UP

A. ALL MATERIAL RESULTING FROM THESE OPERATIONS, EXCEPT SALVAGE, BECOMES THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE, PROMPTLY.

REMOVE MATERIALS AND DEBRIS PROMPTLY, AS GENERATED. BURNING OR BURYING OF DEBRIS ON THE SITE IS PROHIBITED. DISPOSE OF DEBRIS IN A LEGAL

END OF SECTION

SECTION 05 50 00 MISCELLANEOUS METALS

1.00 GENERAL

1.01 SCOPE: FURNISH MATERIALS AND PERFORM LABOR REQUIRED TO EXECUTE THIS WORK AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS NECESSARY TO COMPLETE THE CONTRACT, INCLUDING, BUT NOT LIMITED TO, THESE MAJOR ITEMS:

A. SHAPES, SLEEVES, ANCHORS, CONNECTORS, PLATED, BACKING PLATES, SUPPORTS, AND FASTENING REQUIRED, BUT WHICH ARE NOT SPECIFIED IN OTHER SECTIONS.

GATES TO TRASH ENCLOSURE; ORNAMENTAL FENCES WITH GATES.

HANDRAILS AND GUARD RAILS.

D. SIGN STANDARDS.

1.02 GENERAL REQUIREMENTS

A. CODES: MATERIALS AND WORK SHALL CONFORM TO THE GOVERNING BUILDING CODE. IN CASE OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE BUILDING CODE, THE MORE STRINGENT SHALL GOVERN.

B. SHOP DRAWINGS: SUBMIT IN ACCORDANCE WITH SECTION 013323, SHOWING IN COMPLETE DETAIL ALL INFORMATION REQUIRED FOR FABRICATION, FINISHING AND INSTALLATION OF THIS WORK.

2.00 PRODUCTS

2.01 MATERIALS (AS REQUIRED)

A. STEEL SHAPES: ASTM A36.

B. PIPE FOR RAILINGS: ASTM A53 OR A120. USE STAINLESS STEEL PIPE WHERE INDICATED.

GALVANIZING: ASTM A123.

BOLTS, NUTS, SCREWS: ASTM A307, GRADE A

STEEL TUBING: ASTM A501.

F. PAINT-SHOP PRIME COAT FOR FERROUS METAL: AS SPECIFIED UNDER PAINTING SECTION.

2.02 GALVANIZING

A. GALVANIZE ALL EXTERIOR ITEMS AND THOSE INTERIOR ITEMS SO SPECIFIED. USE THE HOT DIP PROCESS, CONFORMING TO ASTM A123. 2.03 FABRICATION

A. GENERAL: USING SKILLED MECHANICS, FORM AND FABRICATE ITEMS OF WORK AS INDICATED AND AS REQUIRED TO MEET INSTALLATION CONDITIONS. MAKE PROVISIONS TO CONNECT WITH OR RECEIVE THE WORK OF OTHER TRADES.

B. CONNECTIONS: UNLESS OTHERWISE INDICATED, WELDED OR BOLT CONNECTIONS BETWEEN MEMBERS. WHERE POSSIBLE, CONCEAL CONNECTIONS IN THE FINISHED WORK. WHERE EXPOSED SCREW FASTENINGS ARE REQUIRED. USE PHILLIPS OVALHEAD SCREWS TO MATCH PARENT MATERIAL. FIT OR MITER EXPOSED JOINTS TO HAIRLINE TOLERANCE OR USE WELDED JOINTS. ON FINISHED FACES, GRIND ALL WELD SMOOTH AND SLUSH WITH BASE METAL.

EMBEDDED ITEMS: WHERE ITEMS ARE TO BE EMBEDDED IN CONCRETE. PROVIDE WELDED-ON ANCHORS OR LUGS AS INDICATED OR REQUIRED. 3.00 EXECUTION

3.01 INSTALLATION

INSTALL ALL ITEMS PLUMB, LEVEL AND SQUARE, SECURELY AND RIGIDLY ATTACHED TO SUPPORTING CONSTRUCTION AND AS DETAILED.

END OF SECTION

SECTION 06 40 00 **ROUGH CARPENTRY**

1.00 GENERAL

1.01 SUMMARY

A. PRINCIPAL WORK IN THIS SECTION:

WOOD STRUCTURAL FRAMING AND PARTITION FRAMING.

2. EXTERIOR SHEATING.

3. WOOD GROUNDS, NAILERS AND BLOCKING.

4. MISCELLANEOUS ROUGH CARPENTRY ITEMS AS INDICATED AND REQUIRED FOR COMPLETE INSTALLATION.

1.02 GENERAL REQUIREMENTS

A. GENERAL NOTES ON THE DRAWINGS ARE PART OF THIS SECTION.

1.03 QUALITY ASSURANCE

A. REFERENCE STANDARDS: APPLICABLE PROVISIONS OF THE FOLLOWING GOVERN THE WORK OF THIS SECTION. 1. ALSC, AMERICAN LUMBER STANDARDS COMMITTEE: SOFTWOOD LUMBER

2. AWPA, AMERICAN WOOD PRESERVERS' ASSOCIATION.

3. NFPA, NATIONAL FOREST PRODUCTS ASSOCIATION.

4. PS-1, PLYWOOD GRADING RULES.

5. CALIFORNIA STATE BUILDING CODE, TITLE 24 CCR.

ASSOCIATION (WWPA) LATEST EDITIONS.

2.00 PRODUCTS

2.01 MATERIALS A. LUMBER: MANUFACTURED, GRADED AND GRADE-MARKED IN COMPLIANCE WITH THE FOLLOWING REFERENCE SPECIFICATIONS AND GRADING RULES. GRADES

AND SPECIES AS HEREINAFTER SPECIFIED OR NOTED ON THE DRAWINGS. B. DOUGLAS FIR: GRADE IN COMPLIANCE WITH ONE OF THE FOLLOWING:

1. UBC STANDARD 23-1.

2. DOUGLAS FIR, LARCH OR HEMLOCK STRUCTURAL AND FRAMING LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE "STANDARD GRADING RULES NO. 17" OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR THE "STANDARD GRADING RULES" OF THE WESTERN WOOD PRODUCTS

C. PLYWOOD: U.S. DEPARTMENT OF COMMERCE, PRODUCT STANDARD PS 1,

GRADE AND GRADE-MARKED BY THE AMERICAN PLYWOOD ASSOCIATION.

SPACING AS REQUIRED BY THE DRAWINGS. ALL HEADS AND NUTS BEARING ON WOOD SHALL BE FITTED WITH WASHERS. 1. BOLTS, NUTS AND WASHERS FOR USE IN LOCATIONS SUBJECT TO MOISTURE FOR OUTSIDE USE OR IN PORTIONS OF THE STRUCTURE, WHICH ARE NOT

D. BOLTS: ASTM A 307, GRADE A SQUARE OR HEXAGONAL HEAD, SIZES AND

COMPLETELY ENCLOSED, OR ELSEWHERE AS SPECIFIED OR INDICATED. GALVANIZED IN COMPLIANCE WITH ASTM A 153. NAILS: COMMON NAILS, SIZES AND TYPE INDICATED, SPECIFIED, OR AS

REQUIRED FOR THE PURPOSE, IN COMPLIANCE WITH FS FF-N-105A. F. TIMBER CONNECTORS: ICBO APPROVED CONNECTORS, SIMPSON OR

3.00 EXECUTION

3.01 CARPENTRY INSTALLATION

A. WORKMANSHIP: PERFORM WORK IN ACCORDANCE WITH THE BEST STANDARDS OF PRACTICE RELATING TO THE TRADES AND CAREFULLY PLAN AND LAY OUT THE WORK AS REQUIRED. PROPERLY ACCOMMODATE THE WORK OF OTHER TRADES. ACCURATELY SAW-CUT AND FIT LUMBER INTO THE RESPECTIVE LOCATIONS. TRUE TO LINE, GRADE, AND LEVEL, AS INDICATED OR REQUIRED, AND PERMANENTLY SECURE IN PROPER POSITION WITH SPIKES, NAILS, LAG SCREWS, BOLTS, HANGERS, OR OTHER FASTENINGS TO MAKE THE WORK SUBSTANTIAL AND RIGID IN ALL PARTS AND CONNECTIONS.

B. CONNECTION: MAKE CONNECTIONS BETWEEN MEMBERS TIGHT ACCURATE AND SECURE. PLACE FASTENINGS WITH OUT SPLITTING WOOD; PREDRILL WHEN REQUIRED. DRILL BOLT HOLE SAME SIZE AS BOLT DIAMETER. DRILL HOLE FOR LAG SCREWS SAME AS THREAD ROOT DIAMETER; AND CANTERBURY, SAME DEPTH AND DIAMETER AS SHANK. TURN LAG SCREWS INTO PLACE; DO NOT DRIVE. PROVIDE BOLTS AND LAG SCREWS WITH WASHERS UNDER EVERY HEAD AND NUT BEARING ON WOOD. TIGHTEN BOLTS AND LAG SCREWS AT INSTALLATION; CAREFULLY RETIGHTEN JUST PRIOR TO CLOSING, OR AT COMPLETION OF THE PROJECT.

3.02 CLEAN-UP

A. COMPLY WITH THE REQUIREMENTS OF SECTION 01740. DISPOSE OF PRESSURE-TREATED WOOD IN AN AUTHORIZED DISPOSAL AREA. DO NOT BURN TREATED WOOD. DO NOT BURY WOOD OF ANY TYPE ON THE JOBSITE. END OF SECTION

SECTION 07 92 00 JOINT SEALANTS

1.00 GENERAL

A. THIS SECTION INCLUDES JOINT SEALANTS FOR THE FOLLOWING LOCATIONS:

1. EXTERIOR JOINTS IN VERTICAL SURFACES AND NON-TRAFFIC HORIZONTAL SURFACES AS INDICATED BELOW:

a. CONTROL AND EXPANSION JOINTS IN CAST-IN-PLACE CONCRETE.

b. JOINTS BETWEEN DIFFERENT MATERIALS LISTED ABOVE.

EXTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES AS INDICATED BELOW: a. CONTROL, EXPANSION AND ISOLATION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.

b. JOINTS BETWEEN DIFFERENT MATERIALS LISTED ABOVE.

1.02 SUBMITTALS

A. PROCEDURE: IN ACCORDANCE WITH SECTION 01340.

1.03 JOB CONDITIONS

A. DO NOT INSTALL SEALANTS UNDER ADVERSE WEATHER CONDITIONS, OR WHEN TEMPERATURES ARE BEYOND MANUFACTURER'S RECOMMENDED LIMITS.

B. PROCEED WITH THE INSTALLATION ONLY WHEN FORECASTED WEATHER CONDITIONS ARE FAVORABLE FOR PROPER SEALANT CURE AND DEVELOPMENT OF EARLY BOND STRENGTH.

2.00 PRODUCTS

2.01 MATERIALS

A. COLORS: MATCH SEALANT COLOR TO COLOR OF ADJACENT MATERIALS AS CLOSELY AS POSSIBLE USING COLORS SELECTED FROM THE MANUFACTURER'S STANDARD PALETTE, AS APPROVED BY THE ARCHITECT.

B. COMPATIBILITY: VERIFY THAT SELECTED SEALANTS WILL NOT CAUSE STAINING, DEGRADATION AND PREMATURE AGING OF THE ADJACENT SURFACES AND THE SEALANT ITSELF WHEN IN CONTACT WITH THESE SURFACES.

1. FOR ALL OTHER EXTERIOR APPLICATIONS:

A. GENERAL ELECTRIC CORP., SILPRUF. b. DOW CORNING CORP.: 123, 790 OR 795.

c. PECORA CORP.: 90 OR 895.

d. TREMCO CORP.: SPECTREM I OR SPECTREM II.

e. OR APPROVED EQUAL

C. MISCELLANEOUS MATERIALS:

1. JOINT CLEANER, PRIMER AND SEALER: AS RECOMMENDED BY THE SEALANT

a. COMPRESSIBLE ROD STOCK FORMED OF CLOSED-CELL POLYETHYLENE FOAM, POLYETHYLENE JACKETED POLYURETHANE FOAM, BUTYL RUBBER NEOPRENE FOAM OR OTHER FLEXIBLE, PERMANENT, DURABLE NON-ABSORPTIVE MATERIAL RECOMMENDED BY THE SEALANT MANUFACTURER.

3.01 INSTALLATION

1.01 DESCRIPTION

A. COMPLY WITH SEALANT MANUFACTURER'S PRINTED INSTRUCTIONS AND ASTM C 1193, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED HEREIN. AT THE ARCHITECT'S OPTION, ASTM C 1193 MAY ALSO BE USED FOR REJECTION OF UNACCEPTABLE INSTALLATIONS.

> SECTION 09 91 00 PAINTING

1.00 **GENERAL**

A. PAINTING AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN,

1. ALL SURFACES SCHEDULED, SPECIFIED OR INDICATED.

B. EXTERIOR SURFACES NOT TO BE PAINTED.

1. CONCRETE PAVING AND BASE, INCLUDING METAL INSERTS.

3. GRATINGS, CHECKER PLATE OR CAST IRON COVERS AND FRAMES.

4. ALUMINUM WITH ANODIC (COLOR) FINISH, OR CLEAR ANODIZE.

D. ELASTOMERIC COATING

 A. SHOP PRIMED METAL. B. PROJECT SIGN, IN DIVISION 0. TEMPORARY FACILITIES.

1.04 PRODUCT HANDLING

1.05 PROTECTION

A. PROTECT FLOORS AND ALL ADJACENT SURFACES FROM PAINT SMEARS. SPATTERS. AND DROPPINGS. USE DROP-CLOTHS TO PROTECT FLOORS. COVER FIXTURES AND REMOVE HARDWARE NOT TO BE PAINTED. MASK OFF AREAS WHERE

2.00 PRODUCTS 2.01 GENERAL

A. MATERIALS SHALL CONFORM TO GOVERNING REQUIREMENTS OF SOUTH COAST AIR QUALITY CONTROL DISTRICT.

2.03 MANUFACTURERS

A. MATERIALS NECESSARY TO COMPLETE THE PAINTING HEREIN SPECIFIED AND LISTED BY MATERIAL NUMBER AND NAMES ARE STANDARDS FOR KINDS, QUALITY AND FUNCTION, AND ARE TAKEN FROM THE STOCK LIST OF ARCHITECTURAL FINISHES OF THE DUNN EDWARDS CORPORATION, LOS ANGELES.

EQUIVALENT MATERIALS FROM THE ARCHITECTURAL PRODUCT LINE OF SINCLAIR/ICI DULUX PAINT COMPANY, SHERWIN WILLIAMS, FRAZEE INDUSTRIES INC. OR VISTA PAINT CORP. WILL BE ACCEPTABLE, SUBJECT TO ARCHITECTS' APPROVAL.

SHALL BE BY ONE MANUFACTURER. PRIMER SHALL BE FROM SAME MANUFACTURER AS FINISH PAINT. 3. MISCELLANEOUS BASIC MATERIALS SUCH AS LINSEED OILS, SHELLAC, WHITE

LEAD, PUTTY AND SOLVENTS SHALL BE PURE AND OF HIGHEST QUALITY.

2.03 MATERIALS

A. SURFACES SHALL BE FINISHED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES FOR THE SURFACE AND FINISH DESIRED THEREON.

B. EXTERIOR FINISHES: 1. SURFACE - GALVANIZED METAL

PRETREATMENT - GE123 GALVA-ETCH

1ST COAT - QD43-7 GALVA-ALUM

2ND COAT - W960 PERMAGLOSS

PRIMER ULTRA-GRIP, EXTERIOR MULTI-SURFACE PRIMER LUGSLOO. FIRST COAT: SPARTASHILED, EXTERIOR

SECOND COAT: 100% ACRYLIC SEMI-GLOSS PAINT (SSHL50) 3.00 EXECUTION

3.01 PREPARATION OF SURFACES

A. GENERAL: SURFACES TO RECEIVE PAINT FINISH SHALL BE PREPARED AS INDICATED BY PRIMER PAINT PRINTED INSTRUCTIONS.

B. METAL SHALL BE FREE OF RUST. DAMAGED SHOP PRIMER SHALL BE RE-TOUCHED. ROUGH EDGES SHALL BE SANDED.

3.02 APPLICATION

MISCELLANEOUS FINISHES:

1. FINISHES NOT SCHEDULED ON DRAWINGS: a. WHERE WALLS ARE PAINTED:

> (1) PIPES, CONDUITS OR DUCTS: APPLY SAME FINISH AS SPECIFIED FOR WALL OR CEILING ADJACENT TO SURFACES TO BE PAINTED. PRIME SURFACES AS FOLLOWS BEFORE WALL OR CEILING FINISH

A. UPON COMPLETION, REMOVED SPILLAGE, SPATTER SPOTS AND OTHER MISPLACED PAINT MATERIAL, IN MANNER THAT WILL NOT DAMAGE SURFACES. PATCH, REPAIR OR MAKE RESTITUTION FOR WORK OF OTHERS DAMAGED BY PAINTING OPERATIONS, TO SATISFACTION OF ARCHITECT.

A. PROVIDE TO OWNER AN ADDITIONAL 5% OF ALL TYPES AND COLORS OF ALL MATERIALS SPECIFIED.

END OF SECTION

SECTION 10 14 00 SIGNAGE

1.00 **GENERAL**

1.01 SCOPE

SIGNAGE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING MAJOR ITEMS:

DOOR SIGNS AS SCHEDULED AND NOTED.

2. DISABLED ACCESS SIGNS.

3. DISABLED ACCESS SYMBOL SIGNS FOR TOILET ROOMS. EXIT SIGNS.

5. DISABLED ACCESS PARKING SIGNS AND GATE SIGNS.

7. TOILET ROOM SIGNS. 8. BUILDING IDENTIFICATION SIGNS.

ROOM OCCUPANCY SIGNS.

1.02 DESIGN A. WORK SHALL CONFORM TO 2013 CBC 11B AND THE AMERICAN WITH

B. APPROVED SYSTEMS (MANUFACTURERS):

1. ASI/MODULEX, INC. (213) 645-1400.

2. KROY, (800) 733-5769. 3. MOWHAWK SIGN SYSTEMS, INC. (518) 370-3433.

4. CALIFORNIA CONTRACT, (818) 503-7241

OR APPROVED EQUAL

2.00 MATERIALS 2.01 PLAQUE SIGNS

DISABILITIES ACT.

A. NUMBER SIGNS: MOUNT ON A BASE - 1 1/8" INCH HIGH X 5 INCHES LONG. TYPE FACE - MODIFIED HELVETICA. NUMBER SIZE 9/16 INCH HIGH. PROVIDE BRAILLE SYMBOLS. SECURE ADJACENT TO DOOR, WHERE INDICATED. SIMILAR TO: ASI INFINITY;

B. TEXT SIGNS: MOUNT ON A BASE - 1 1/8 INCH HIGH X VARYING LENGTHS. TYPE FACE - MODIFIED HELVETICA. LETTER SIZE - 9/16" INCH HIGH, SUPPER AND LOWER CASE. PROVIDE BRAILLE SYMBOLS. SECURE ADJACENT TO DOOR, WHERE INDICATED. SIMILAR TO: ASI INFINITY; SPE-SA. 2.02 PERMANENT TEXT SIGNS

A. DIRECTIONAL AND INFORMATIONAL SIGNS REQUIRED BY TITLE 24 CCR AND THE ADA AS SHOWN ON THE DRAWINGS SHALL HAVE THE TEST SILVER OR VINYL DIE CUT IN SIGNS AS NOTED. SIMILAR TO ASI INFINITY SOG-SA.

2.03 PERMANENT TEXT - EXTERIOR A. SIZE AS REQUIRED TO PROVIDE TEXT STATED USING 1 INCH HIGH LETTERS, UPPER AND LOWER CASE MODIFIED HELVETICA, AND OTHER TEXT. MATERIAL: FIBERGLASS BASE, WITH URETHANE FINISH AND SILK SCREENED

SERIES. MOUNTING: SCREWS 1/4 INCH DIAMETER, CORROSION AND VANDAL RESISTANT, SELF DRILLING.

GRAPHICS, PROTECTED WITH A TRANSPARENT MATTE FINISH. SIMILAR TO ASI GOF

2.04 DISABLE ACCESS SIGNS, OCCUPANCY SIGNS

A. TOILET ROOM SYMBOLS

1. MEN'S AND BOYS' SIGN IS A 12" TRIANGLE. PANEL IS PAINTED ACRYLIC WITH SUB-SURFACE TEXT AND PICTOGRAM.

2. WOMEN'S AND GIRLS' ROOM SIGNS IS A 12" CIRCLE. PANEL IS PAINTED ACRYLIC WITH SUB-SURFACE TEXT AND PICTOGRAM.

EQUAL.

3.00 EXECUTION

UNISEX. B. FREE-STANDING EXTERIOR ACCESSIBILITY SIGNS, TRAFFIC CONTROL AND OTHER EXTERIOR SIGNS: TRAFFIC CONTROL SERVICE, INC. (800) 222-8274, ZUMAR INDUSTRIES (323) 724-8450 OR WESTERN HIGHWAY PRODUCTS, INC. (714) 761-4811, OR

3.01 PERMANENT TEXT A. PERMANENT TEXT NOT INDICATED IN CONTRACT DRAWINGS WILL BE FURNISHED AT THE TIME THAT SUBMITTALS ARE RETURNED.

A. INSTALL WHERE INDICATED. SIGNS SHALL BE A COMPLETE VANDAL RESISTANT INSTALLATION. FASTENERS SHALL BE CONCEALED, IN DRILLED HOLES, COUNTER SUNK WHERE INDICATED. SIGNS SHALL ALIGN WITH ADJACENT LINES AND EDGES, BE LEVEL, FLAT ON THE MOUNTING SURFACE.

MANUFACTURER. FASTENERS SHALL BE CONCEALED, IN DRILLED HOLES, COUNTER SUNK WHERE INDICATED. SIGNS SHALL ALIGN WITH ADJACENT LINES AND EDGES, BE LEVEL, FLAT ON THE MOUNTING SURFACE. C. POST MOUNTED SIGNS SHALL FOLLOW SAME REQUIREMENTS AS SPECIFIED

B. BUILDING WALL SIGNS: INSTALL AS RECOMMENDED BY THE

SECTION 31 10 00 SITE CLEARING

END OF SECTION

PART 1 - GENERAL

A. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, SERVICES, TESTING, TRANSPORTATION AND EQUIPMENT NECESSARY FOR THE COMPLETION OF ALL SITE CLEARING WORK AS REQUIRED AND AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN. WORK MATERIALS AND EQUIPMENT NOT INDICATED OR SPECIFIED WHICH IS NECESSARY FOR THE COMPLETE AND PROPER OPERATION OF THE WORK OF THIS SECTION IN ACCORDANCE WITH THE TRUE INTENT AND MEANING OF THE CONTRACT

DOCUMENTS SHALL BE PROVIDED AND INCORPORATED AT NO ADDITIONAL COST TO B. REMOVAL OF SURFACE DEBRIS; REMOVAL OF PAVING AND CURBS; REMOVAL OF TREES, SHRUBS, AND OTHER PLANT LIFE; TOPSOIL EXCAVATION; AND REPAIR OF DAMAGED VEGETATION AND/OR IRRIGATION SYSTEMS/SYSTEM

COMPONENTS. C. REMOVAL OF CONCRETE AND BITUMINOUS SURFACING.

FOR LINE POSTS OF SAME HEIGHT IN SECTION 32 31 15.

1.2 RELATED SECTIONS A. SECTION 02 41 19: DEMOLITION.

1.3 REGULATORY REQUIREMENTS

A. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, LICENSES, OR AGREEMENTS REQUIRED BY ANY LEGALLY CONSTITUTED AGENCY. PAY FOR ALL FEES AND GIVE ALL NECESSARY NOTICES REQUIRED FOR THE CONSTRUCTION OF THE WORK. THE SCHOOL DISTRICT SHALL REIMBURSE THE CONTRACTOR FOR ALL NECESSARY PERMITS OR INSPECTION FEES BY ANY LEGALLY CONSTITUTED AGENCY AT A ONE TO ONE BASIS.

B. PERFORM ALL WORK OF THIS SECTION IN STRICT ACCORDANCE WITH

APPLICABLE GOVERNMENT CODES AND REGULATIONS ESPECIALLY MEETING ALL

SAFETY STANDARDS AND REQUIREMENTS OF CAL/OSHA. C. COMPLY STRICTLY TO ALL LOCAL AIR QUALITY MANAGEMENT DISTRICT'S RULES AND REGULATIONS.

A. OBTAIN APPROVED CLEAN BORROW SOIL MATERIALS OFF-SITE WHEN

SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE. SEE SPECIFICATION

SECTION 31 20 00 FOR REQUIREMENTS. PART 3 - EXECUTION

2.1 SATISFACTORY SOIL MATERIALS:

PART 2 - PRODUCTS

3.1 PROTECTION A. PROTECT EXISTING STRUCTURES AND SITE IMPROVEMENTS INDICATED TO REMAIN, FROM DAMAGE BY APPROVED METHODS AND/OR AS AUTHORIZED BY THE DISTRICT REPRESENTATIVE. REMOVAL OF ALL PROTECTIONS SHALL BE WHEN WORK OF THIS SECTION IS COMPLETED OR WHEN SO AUTHORIZED BY THE DISTRICT

REPRESENTATIVE.

B. PROTECT EXISTING UTILITIES INDICATED OR MADE KNOWN TO REMAIN TRAVERSING THE JOB-SITE AND SERVING EXISTING ADJACENT FACILITIES.

3.2 EXCESS MATERIALS DISPOSAL

A. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. END OF SECTION

> **SECTION 31 20 00 EARTH MOVING**

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES: 1. PREPARING SUBGRADES FOR WALKS, PAVEMENTS, TURF AND GRASSES, AND

DRAINAGE COURSE FOR CONCRETE SLABS-ON-GRADE. 3. SUBBASE COURSE FOR CONCRETE WALKS.

1.2 DEFINITIONS A. BACKFILL: SOIL MATERIAL USED TO FILL AN EXCAVATION.

1. INITIAL BACKFILL: BACKFILL PLACED BESIDE AND OVER PIPE IN A TRENCH, INCLUDING HAUNCHES TO SUPPORT SIDES OF PIPE. 2. FINAL BACKFILL: BACKFILL PLACED OVER INITIAL BACKFILL TO FILL A TRENCH. B. BASE COURSE: AGGREGATE LAYER PLACED BETWEEN THE SUBBASE

COURSE AND HOT-MIX ASPHALT PAVING. C. BEDDING COURSE: AGGREGATE LAYER PLACED OVER THE EXCAVATED SUBGRADE IN A TRENCH BEFORE LAYING PIPE. D. BORROW SOIL: SATISFACTORY SOIL IMPORTED FROM OFF-SITE FOR USE AS FILL OR BACKFILL.

E. FILL: SOIL MATERIALS USED TO RAISE EXISTING GRADES.

1.3 PROJECT CONDITIONS UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING EARTH MOVING OPERATIONS.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

REQUIRE APPROVAL BY GEOTECHNICAL ENGINEER OF RECORD AND SHALL BE DTSC APPROVED SITE.

PART 3 - EXECUTION A. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT,

UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING

B. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING

A. UNCLASSIFIED EXCAVATION: EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS

1. IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE

A. EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED

UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH

A. OBTAIN APPROVED CLEAN BORROW SOIL MATERIALS OFF-SITE WHEN

SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE, ALL BORROW SITES

EARTH MOVING OPERATIONS. 3.2 EXCAVATION, GENERAL

ENCOUNTERED. UNCLASSIFIED EXCAVATED MATERIALS MAY INCLUDE ROCK, SOIL MATERIALS, AND OBSTRUCTIONS. NO CHANGES IN THE CONTRACT SUM OR THE CONTRACT TIME WILL BE AUTHORIZED FOR ROCK EXCAVATION OR REMOVAL OF

3.3 EXCAVATION FOR WALKS AND PAVEMENTS

3.5 SOIL MOISTURE CONTROL

HAND-OPERATED TAMPERS.

SATISFACTORY SOIL MATERIALS.

LINES, CROSS SECTIONS, ELEVATIONS, AND SUBGRADES.

3.4 STORAGE OF SOIL MATERIALS A. STOCKPILE BORROW SOIL MATERIALS AND EXCAVATED SATISFACTORY SOIL MATERIALS WITHOUT INTERMIXING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL SOIL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM

MOISTURE CONTENT. 3.6 COMPACTION OF SOIL BACKFILLS AND FILLS PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 6 INCHES IN

LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND

NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY

RETAIN ONE OPTION IN PARAGRAPH BELOW BASED ON ASTM LABORATORY-TEST METHOD REQUIRED. REPLACE THE TERM "UNIT WEIGHT" WITH "DENSITY" IF B. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698

RETAIN APPLICABLE SUBPARAGRAPHS BELOW. PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ARE EXAMPLES ONLY; REVISE TO SUIT PROJECT. DELETE SCARIFYING AND RECOMPACTING EXISTING SUBGRADE WHEN PROOF-ROLLING WILL SUFFICE.

1. UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM)

2. FOR UTILITY TRENCHES, COMPACT EACH LAYER OF INITIAL AND FINAL

BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL

B. SITE ROUGH GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM

3.7 GRADING A. GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND

BACKFILL SOIL MATERIAL AT 90 PERCENT.

TURF OR UNPAVED AREAS: PLUS OR MINUS 1 INCH (25 MM)]

3. WALKS: PLUS OR MINUS 1 INCH (25 MM)

UNDER PAVEMENTS AND WALKS AS FOLLOWS:

MATERIAL AT 90 PERCENT.

BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:

GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.

3.8 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS PLACE SUBBASE COURSE AND BASE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

C. ON PREPARED SUBGRADE, PLACE SUBBASE COURSE AND BASE COURSE

RETAIN OPTION IN THREE SUBPARAGRAPHS BELOW IF RETAINING "AND BASE COURSE" OPTION IN PARAGRAPHS ABOVE. 1. COMPACT SUBBASE COURSE AND BASE COURSE AT OPTIMUM MOISTURE

CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS

A. REMOVE SURPLUS SATISFACTORY SOIL AND WASTE MATERIALS, INCLUDING

END OF SECTION

UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF

TO NOT LESS THAN 90 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING

TO ASTM D 698 ASTM D 1557. 3.9 FIELD QUALITY CONTROL A. TESTING AGENCY: OWNER WILL ENGAGE A QUALIFIED GEOTECHNICAL

ENGINEERING TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.

3.10 DISPOSAL OF SURPLUS AND WASTE MATERIALS

FLEWELLING & MOOD' architecture planning interiors

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(4) 24'x40' MODULAR CLASSROOM **BUILDINGS AT** CHANNEL ISLANDS HIGH SCHOOL

1400 RAIDERS WAY

OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

SPECIFICATIONS

2835.0200

10-9-2019

MANUFACTURER, FOR THE SURFACES TO BE CLEANED, PRIMED OR SEALED. 2. SEALANT BACKER ROD:

3.00 EXECUTION

END OF SECTION

INCLUDING, BUT NOT LIMITED TO THESE MAJOR ITEMS:

2. STAINLESS STEEL.

1.02 RELATED WORK SPECIFIED ELSEWHERE AS REQUIRED

C. SIGNAGE.

A. DELIVER MATERIALS TO THE PROJECT SITE IN UNOPENED CONTAINERS BEARING MANUFACTURER'S NAME AND PRODUCT DESCRIPTIONS CORRESPONDING TO DESIGNATION ON MATERIAL LIST.

NECESSARY

2. EXCEPT FOR SPECIALTY ITEMS, OR OTHERWISE SPECIFIED, ALL MATERIALS

3RD COAT - W960 PERMAGLOSS 2. SURFACE - WOOD

IS APPLIED. 3.03 CLEANING AND PATCHING

FLEWELLING & MOODY

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(4) 24'x40' MODULAR CLASSROOM CHANNEL ISLANDS HIGH SCHOOL 1400 RAIDERS WAY

OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

SPECIFICATIONS

2835.0200

10-9-2019

G:\Project\2835—0200—0UHSD—ChannellslandHS—Relos\DWG\SPEC—2.dwg; Last Saved By: icarrillo — Jan 06, 2020 — 8:21am Last Printed By: ICARRILLO — Jan 06, 2020, 8:28am;

A. GENERAL: DRAWN STEEL WIRE, HOT-DIPPED ZINC COATED AFTER WEAVING, ASTM A-392 CLASS 1, 1.2 OZ/SQ. FT. OF WIRE SURFACE, PER ASTM A-90

A. REQUIREMENTS OF REGULATORY AGENCIES RELATIVE TO GATES AND HARDWARE IN THE PATH OF TRAVEL:

WIDE; DIAGONAL CROSS-BRACING TRUSS RODS TO INSURE GATES STAY

SQUARE AND OPERATE PROPERLY. GRIND ALL WELDS FLUSH AND SMOOTH.

VERTICAL EDGES. TENSION BARS SHALL EXTEND FULL HEIGHT OF GATES.

B. FABRIC: STRETCH TAUT; TENSION BARS AND BANDS A 15" O.C. MAX. AT

A. EXISTING CONDITIONS: VERIFY LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES AND WATER LINES PRIOR TO EXCAVATING FOR

B. LAYOUT: MEASURE AND LAY OUT COMPLETE FENCE LINE, GATE(S), AND

1. GENERAL: LOCATE LINE POSTS AT EQUAL-DISTANCE SPACING IN A RUN, BUT DO NOT EXCEED <u>10-FEET</u> ON CENTER, UNLESS NOTED OTHERWISE.

WIRE TIE FABRIC AT 12" O.C. MAX. TOP, BOTTOM, AND BRACING RAILS.

GALVANIZE AFTER FABRICATION.

MODIFICATIONS TO EXISTING FENCE.

PART 3 - EXECUTION

C. POST SPACING:

3.1 PREPARATION

1. CODES: CONFORM TO 2016 TITLE 24 CBC SECTION 1007.3.11 AND CALIFORNIA FIRE CODE (CFC) SECTION 1208.

B. QUALITY STANDARDS: ALL WORK SHALL COMPLY WITH CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) STANDARDS, ASTM F567, AND ALL REQUIREMENTS IN THESE SPECIFICATIONS: THE MOST STRINGENT

REQUIREMENTS SHALL APPLY WHERE THERE ARE CONFLICTS.

PART 2 - PRODUCTS

2.1 GENERAL

1.2 QUALITY ASSURANCE

A. ALL FENCE COMPONENTS TO BE GALVANICALLY COMPATIBLE.

2.2 MATERIALS; FABRIC

A. PRINCIPAL WORK ITEMS ARE:

CHAIN LINK FENCE.

2. CONCRETE POST FOUNDATIONS.

3. ALL HARDWARE, EXCEPT PADLOCKS.

PLUMBING SPECIFICATIONS

22_0500_COMMON_WORK_RESULTS_PLUMBING

A.GENERAL CONDITIONS, CODES & STANDARDS

- 1. GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
- 2. REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF THE AIA FOR ADDITIONAL REQUIREMENTS REGARDING; SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC.
- 3. ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCALLY ENFORCED, FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING ANY SPECIAL THE OWNER REQUIREMENTS IN ADDITION TO THOSE SPECIFIED.

 4. CONTRACTOR SHALL BAY FOR AND ORTAIN ALL NECESSARY LICENSES, REPMITS AND
- 4. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.

B.SCOPE OF WORK

- 1. THE MAJORITY OF PLUMBING CONSTRUCTION IS PERFORMED AT THE OUHSD STRUCTURES FACTORY. SELECT WORK, INCLUDING SETTING TOILET FIXTURES, PIPING CONNECTING BETWEEN VERTICALLY STACKED PIPING, AND SIMILAR WORK IS PERFORMED IN THE FIELD/ON SITE BY THE SITE PLUMBING CONTRACTOR, INCLUDING LATERAL PIPING WITHIN CRAWLSPACE BENEATH MODULES. SELECT WORK IS NOTED AS "FACTORY" OR "FIELD" FOR CLARIFICATION.
- 2. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO PROVIDE THE OWNER A COMPLETE, CODE APPROVED AND OPERATIONAL PLUMBING SYSTEM.
- 3. CAREFULLY READ SPECIFICATION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SCOPE. CONSULT WITH OTHER TRADES TO INSURE PROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE WORK IS COMMENCED.
- 4. CONTRACTORS SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS, NOTE THE EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF THIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.
- 5. ALL EXISTING UTILITY AND PLUMBING SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- 6. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CORE DRILLING OR CUTTING OF FIRE RATED FLOORS, SHAFTS, AND WALLS SHALL BE FIRESTOPPED PRIOR TO FINISH PATCHING. ALL PENETRATIONS SHALL BE FIRE SEALED TO MATCH THE FIRE RATING OF THE FLOORS, SHAFTS, AND WALLS PENETRATED. THIS CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL WALL AND FLOOR OPENINGS WITH THE GENERAL TRADES CONTRACTOR. THE FINAL LOCATIONS AND SIZES OF ALL PIPE OPENINGS SHALL BE PROVIDED BY THIS CONTRACTOR.
- 7. ALL WORK INCLUDING, BUT NOT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE ENGINEER AND OWNER. WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEEDS ONE YEAR, THAT WARRANTY PERIOD SHALL APPLY TO THIS PROJECT.

C.DOCUMENTS

- 1. THE DRAWINGS ARE DIAGRAMMATIC, ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.
- THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.

 2. ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS SHALL BE INCLUDING IN BID.
- 3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NOT MENTIONED
- 4. IF ERRORS ARE FOUND IN THE DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES OCCUR BETWEEN THE SAME, OR BETWEEN THE FIGURES ON THE DRAWINGS, AND THE SCALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE MATTER ON THE DRAWINGS SHALL BE REFERRED TO THE OWNER FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE.
- THE BID DUE DATE.

 5. THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATE TO THE SPECIFIED EQUIPMENT AND MATERIAL AND MUST BE SUBMITTED AS SPECIFIED IN THE ARCHITECTURAL DOCUMENTS.
- 6. MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS. REFER TO EACH SECTION FOR ANY SPECIFIC REQUIREMENTS.

D.COORDINATION

- CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.
- 2. EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROUGH THE NEGLECT OF HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE AS DIRECTED BY THE OWNER BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.

E.METHODS

- 1. EXCAVATIONS SHALL BE MADE IN OPEN TRENCHES. FLOORS SHALL BE SAW CUT. PIPING SHALL BE LAID ON AN APPROPRIATELY GRADED 6" BED OF CLEAN AND DRY SAND. ENGINEERED FILL SHALL BE USED TO BACKFILL TO 6" ABOVE THE PIPING. BACKFILL THE REMAINDER OF THE TRENCH UTILIZING THE EXCAVATED MATERIAL IF APPROVED BY THE ARCHITECT OR THE OWNER. IF THE EXCAVATED MATERIALS ARE NOT ACCEPTABLE, ENGINEERED FILL ACCEPTABLE TO THE ARCHITECT SHALL BE UTILIZED TO BACKFILL THE REMAINDER OF THE TRENCH. BACKFILL SHALL BE ACCOMPLISHED IN 9" LIFTS WITH ALL LIFTS COMPACTED TO 95% PROCTOR. PATCH FLOOR TO MATCH EXISTING.
- 2. EQUIPMENT, PIPING, ETC. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, CONDUIT OR DUCTWORK, ROOF DECK, OR JOIST BRIDGING. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

F.SUBMITTALS

- 1. SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT OF ALL EQUIPMENT AND ACCESSORIES PROVIDED FOR THE PROJECT WHETHER SPECIFIED HERE-IN OR ON THE DRAWINGS. REVIEW OF THE SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN CONCEPT AND ADHERENCE WITH THE SPECIFICATIONS. QUANTITY OF SHOP DRAWINGS SUBMITTED SHALL BE AS SPECIFIED BY THE ARCHITECT. SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR SHOWING LOCATIONS AND MEASUREMENTS FROM COLUMNS OF ALL CONCEALED AND EXPOSED PIPING, DUCTWORK, CONDUIT, EQUIPMENT, ACCESSORIES, ETC., AND SUBMITTED PRIOR TO INSTALLATION. THE OWNER MAY MAKE REPRODUCIBLE COPIES OF THEIR DRAWINGS AVAILABLE FOR USE IN PREPARATION OF SHOP DRAWINGS, HOWEVER THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR NOT CONFIRMING ALL INFORMATION ON THE DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION.
- 2. PROJECT RECORD DOCUMENTS MAINTAIN AT THE JOBSITE ONE COPY OF ALL CONTRACT DOCUMENTS CLEARLY MARKED AS "PROJECT RECORD COPY". THESE DRAWINGS ARE TO BE MAINTAINED IN GOOD CONDITION, UPDATED DAILY FOR CHANGES ENCOUNTERED AND AVAILABLE AT ALL TIMES FOR INSPECTION BY THE OWNER. DO NOT USE FOR FIELD CONSTRUCTION! PROJECT RECORD DOCUMENTS ARE TO BE KEPT CURRENT WITH EXACT DIMENSIONS OF ALL WORK, EQUIPMENT, PIPING, VALVES, DUCTWORK, ETC. MARK ALL INFORMATION IN RED LINES AND NOTES SO AS TO BE EASILY IDENTIFIED FROM THE BASE DRAWING. UPON COMPLETION OF THE WORK, ONE SET OF THESE DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AS ONE QUALIFICATION FOR FINAL PAYMENT.
- 3. AFTER THE ACCEPTANCE TESTS ARE COMPLETED AND ACCEPTED BY THE OWNER, THREE COMPLETE SETS OF AS-BUILT DOCUMENTATION SHALL BE PROVIDED. IT SHALL INCLUDE, BUT NOT BE LIMITED TO ACCURATE PLAN DRAWINGS, SYSTEM AND CONTROL SCHEMATICS, SEQUENCE OF OPERATION, WIRING DIAGRAMS AND OPERATION AND MAINTENANCE MANUALS.

22_0513_BASIC_PLUMBING_MATERIALS_METHODS

A.GENERAL

- 1. INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS, AND IN
- ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.

 2. CLEAN AND DRY SURFACES PRIOR TO INSULATING.

B.PLUMBING

- 1. ALL ABOVE GROUND PIPING SHALL BE INSULATED WITH FIBERGLASS PIPING INSULATION
- WITH AN ALL SERVICE JACKET AND SELF SEALING LAP (ASJ/SSL).
- a. DOMESTIC COLD WATER PIPING 1 INCH THICK.
- 2. FITTINGS AND VALVES SHALL BE INSULATED WITH PRE-MOLDED FIBERGLASS FITTINGS AND COVERED WITH A PRE-FORMED PVC FITTING COVER.

C. CONDENSATE DRAINAGE

- 1. CONDENSATE DRAINS FROM HVAC EQUIPMENT SHALL NOT BE CONNECTED TO ANY PORTION
 - OF SCIENCE CLASSROOM ACID WASTE DRAINAGE SYSTEM.

 2. UNDERGROUND CONDENSATE PIPING SHALL BE TYPE "K" HARD COPPER WITH WROUGHT
 - COPPER SILVER BRAZED FITTINGS.
 - ABOVE GROUND CONDENSATE DRAINAGE SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS.

22_0553_PLUMBING_IDENTIFICATION_111001

A.SUMMARY

1. SECTION INCLUDES PIPE MARKERS.

B.REFERENCES

 ASME A13.1 (AMERICAN SOCIETY OF MECHANICAL ENGINEERS) - SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS.

C.PIPE MARKERS

- . COLOR AND LETTERING: CONFORM TO ASME A13.1.
- 2. PLASTIC PIPE MARKERS:
- a. FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PREFORMED TO FIT AROUND PIPE OR PIPE COVERING. LARGER SIZES MAY HAVE MAXIMUM SHEET SIZE WITH SPRING FASTENER.

D.PREPARATION

 DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION MATERIALS.

MATERIA E.INSTALLATION

1. IDENTIFY PIPING, CONCEALED OR EXPOSED, WITH PLASTIC PIPE MARKERS, PLASTIC TAPE PIPE MARKERS OR STENCILED PAINTING. IDENTIFY SERVICE, FLOW DIRECTION, AND PRESSURE. INSTALL IN CLEAR VIEW AND ALIGN WITH AXIS OF PIPING. LOCATE IDENTIFICATION NOT TO EXCEED 20 FEET ON STRAIGHT RUNS INCLUDING RISERS AND DROPS, ADJACENT TO EACH VALVE AND TEE, AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE, AND AT EACH OBSTRUCTION.

22_1000_PLUMBING_140214

A.GENERAL

1. THE ENTIRE PLUMBING INSTALLATION, MATERIALS, EQUIPMENT, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE LOCALLY ENFORCED BUILDING CODE, THE INTERNATIONAL PLUMBING CODE, AND THE AMERICAN DISABILITIES ACT GUIDELINES, ANSI A117.1 REQUIREMENTS FOR THE PHYSICALLY CHALLENGED AND THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS). CONTRACTOR TO VERIFY ALL PLUMBING ROUGH IN DIMENSIONS MEET THE ABOVE NOTED REQUIREMENTS. VERIFY FINAL ROUGH IN WITH ARCHITECT PRIOR TO BACKFILLING OR WALL INSTALLATION.



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Revision	ns	
No.	Date	Description
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(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL

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OXNARD UNION HIGH SCHOOL DISTRICT

SPECIFICATIONS

Job No.

SPEC-3
12-18-2019

ELECTRICAL SPECIFICATIONS

SECTION 26 0126 TEST AND ACCEPTANCE REQUIREMENTS

A. FURNISH ALL LABOR AND FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREINAFTER.

- B. REMOVE ABANDONED CONNECTORS, CABLE, RECEPTACLES, TELEPHONE OUTLETS AND ALL OUTLET BOXES, CONDUIT AND WIRE THROUGHOUT THE ENTIRE AREA.
- C. FURNISH, INSTALL AND CONNECT CONTROL CABLE AND CONNECTORS AS NOTED ON DRAWINGS.
- D. INSTALL AND CONNECT ALL OWNER FURNISHED EQUIPMENT AS NOTED. COORDINATE WITH OWNER BEFORE INSTALLATION.

1.01 GENERAL

1.00 SCOPE

- A. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR. SERVICE, HOISTING, SUPPORT AND SUPERVISION FOR ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS AND AS SPECIFIED.
- B. THE ENTIRE WORK PROVIDED SHALL BE CONSTRUCTED AND FINISHED IN EVERY RESPECT IN A WORKMANLIKE AND SUBSTANTIAL MANNER. FURNISH AND INSTALL ALL WORK AS MAY BE NECESSARY TO COMPLETE THE SYSTEMS IN ACCORDANCE WITH THE BEST TRADE PRACTICE AND TO THE SATISFACTION OF THE OWNER. THE ENTIRE INSTALLATION SHALL BE READY IN EVERY RESPECT FOR
- C. THE DRAWINGS SHOW VARIOUS CONDUIT AND WIRING SYSTEMS SCHEMATICALLY AND PROVIDE CIRCUIT NUMBERS FOR REFERENCE ONLY. BALANCE ALL PANELBOARDS AND RECORD ALL CIRCUIT

NUMBERS ON AS-BUILT DRAWINGS.

- D. SUBMIT A SINGLE GUARANTEE STATING THAT ALL PORTIONS
 OF THE WORK ARE IN ACCORDANCE WITH CONTRACT
 REQUIREMENTS. GUARANTEE ALL WORK AGAINST FAULTY AND
 IMPROPER MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE
 YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER EXCEPT
 THAT WHERE GUARANTEES OR WARRANTIES FOR LONGER TERMS
 ARE SPECIFIED BY CONTRACT, SUCH LONGER TERM SHALL APPLY. AT
 NO ADDITIONAL COST TO THE OWNER, WITHIN 24HOURS AFTER
 NOTIFICATION, CORRECT ANY DEFICIENCIES WHICH OCCUR DURING
 THE GUARANTEE PERIOD, ALL TO THE SATISFACTION OF THE OWNER.
- E. PROVIDE ALL MATERIAL AND EQUIPMENT AND MAKE THE FINAL CONNECTIONS TO ALL EQUIPMENT.

1.02 CODES AND PERMITS

- A. ALL WORK SHALL BE DONE IN FULL COMPLIANCE WITH THE CALIFORNIA ELECTRIC CODE AND ALL LOCAL CODES OR ORDINANCES HAVING JURISDICTION.
- B. ALL EQUIPMENT AND MATERIALS SHALL BE NEW EXCEPT
 WHERE SPECIFICALLY NOTED TO BE REUSED AND LISTED BY THE
 UNDERWRITER'S LABORATORIES, INC., MANUFACTURED IN
 ACCORDANCE WITH ASME, NEMA ANSI OR IEEE STANDARDS, AND
 APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.
- C. SECURE AND PAY FOR ALL NECESSARY APPROVALS, PERMITS, INSPECTIONS, ETC., AND DELIVER THE OFFICIAL RECORDS OF THE GRANTING OF PERMITS TO THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.

1.03 COORDINATION

- A. COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER SECTIONS IN AMPLE TIME FOR THE PROPER INSTALLATION AND CONNECTION AND FOR THE PROVISION OF ALL OPENINGS REQUIRED IN FLOORS AND WALLS.
- B. CAREFULLY CHECK SPACE REQUIREMENTS WITH OTHER TRADES TO INSURE THAT ALL EQUIPMENT AND MATERIALS CAN BE INSTALLED IN THE SPACES ALLOTTED THERETO. INSTALL ALL WORK TO AVOID OBSTRUCTIONS AND TO PRESERVE HEADROOM AND CEILING HEIGHT REQUIREMENTS.
- C. CAREFULLY CHECK THE DOCUMENTS WITH OTHER TRADES TO ASCERTAIN THE REQUIREMENTS OF ANY MATERIALS OR EQUIPMENT BEING FURNISHED AND/OR INSTALLED BY THAT SECTION AND PROVIDE THE PROPER INSTALLATION AND/OR CONNECTIONS INCLUDING ANY CONTROL WIRING REQUIRED.
- D. BEFORE FABRICATION AND INSTALLATION OF SPECIAL SYSTEM OUTLETS VERIFY THE FINAL DESIRED LOCATION OF EQUIPMENT WITH OWNER.

SECTION 26 0500 COMMON WORK RESULTS ELECTRICAL

1.00 CLEANING PREMISES

A. 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 SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

1.01 RECORD DRAWINGS

KEEP UP TO DATE, A COMPLETE SET OF AS BUILT MYLARS TO INDICATE ANY CHANGES FROM THE ORIGINAL DRAWINGS. UPON COMPLETION OF THE INSTALLATION, FURNISH A COMPLETE SET OF AS-BUILT MYLARS. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL. AFTER APPROVAL THEY SHALL BECOME THE PROPERTY OF THE OWNER. FINAL PAYMENT WILL BE WITHHELD UNTIL RECEIPT OF THE APPROVED DRAWINGS.

1.02 PROTECTION & SAFEGUARDS

THE CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING. HE SHALL BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM HIS NEGLECT OF THESE PRECAUTIONS, HIS OWN CARELESSNESS, OR THE CARELESSNESS OR NEGLECT OF HIS EMPLOYEES, OR HIS SUB-CONTRACTOR AND/OR THEIR EMPLOYEES.

1.03 SHOP DRAWINGS

WITHIN THIRTY (15) DAYS AFTER AWARD OF THE GENERAL CONTRACT, THE CONTRACTOR SHALL SUBMIT SIX (6) PRINTS OF ALL REQUIRED SHOP DRAWINGS AND BROCHURES. SHOP DRAWINGS AND BROCHURES WILL BE REQUIRED FOR THE FOLLOWING EQUIPMENT. SWITCHBOARDS, PANELBOARDS, CIRCUIT BREAKERS, LIGHT FIXTURES AND ANY SPECIAL EQUIPMENT. EQUIPMENT INSTALLED WITHOUT APPROVAL THEREOF SHALL BE DONE AT THE RISK OF THE CONTRACTOR AND THE COST FOR REMOVAL OF SUCH EQUIPMENT OR RELATED WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON SHALL BE AT THE EXPENSE OF THIS CONTRACTOR.

SECTION 26 0513 BASIC ELECTRICAL MATERIALS METHODS

1.00 EXISTING CONDITIONS

- A. BEFORE SUBMITTING BID BECOME THOROUGHLY FAMILIAR
 WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING AND
 OF THE PRESENT INSTALLATIONS TO WHICH CONNECTIONS
 MUST BE MADE OR WHICH MUST BE CHANGED OR ALTERED.
 THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND
 DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED
 BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE
 CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE.
- B. WHERE SPECIFICALLY CALLED FOR ON THE DRAWING OR WHEN PERMISSION IS SPECIFICALLY GIVEN BY THE OWNER, EXISTING EQUIPMENT AND MATERIAL MAY BE REUSED. SALVAGEABLE MATERIAL, UNLESS OTHERWISE INSTRUCTED BY HE OWNER, SHALL BECOME THE PROPERTY OF THE ONTRACTOR AND BE REMOVED FROM THE SITE.

THE CONTRACTOR SHALL DO ALL DRILLING, CUTTING, AND PATCHING OF GENERAL CONSTRUCTION WORK EXISTING OR NEW, ROUGH FINISH AND TRIM WHICH MAY BE REQUIRED FOR THE INSTALLATION OF ALL OF HIS WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS THE ORIGINAL WORK, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

1.02 ELECTRICAL SERVICE

FURNISH AND INSTALL ALL ELECTRICAL SERVICE CONDUIT, CONDUCTORS, PULL BOXES, METER SOCKETS AND SERVICE SWITCHGEAR. SERVICE FACILITIES AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY. IMMEDIATELY UPON AWARD OF CONTRACT, CONTACT THE UTILITY COMPANY TO COORDINATE THEIR WORK WITH THE WORK OF THIS CONTRACT. OBTAIN APPROVAL OF THE UTILITY COMPANY FOR SERVICE EQUIPMENT AND CONNECTIONS. ALL SERVICE AND CABLE CHARGES OF THE UTILITY COMPANY WILL BE PAID BY THE CONTRACTOR.

SECTION 26 0526 GROUNDING AND BONDING

1.03 GROUNDING SYSTEM

- A. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND TITLE 24, CALIFORNIA ADMINISTRATIVE CODE, PART 3. SERVICE ENTRANCE EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE UTILITY COMPANY'S REQUIREMENTS.
- GROUNDING AND BONDING SHALL BE AS INDICATED ON THE DRAWINGS AND BONDED TO THE COLD WATER PIPING SYSTEM.
- PROVIDE A GROUNDING CONDUCTOR, WHICH SHALL BE IN ADDITION
 C. TO THE THE CIRCUIT CONDUCTORS INDICATED, IN EACH NONMETALLIC CONDUIT USED FOR LIGHTING AND POWER CIRCUITS.
- ALL SYSTEM GROUNDING CONDUCTORS SHALL BE COPPER. ALL GROUND CONNECTIONS SHALL BE ACCESSIBLE AND MADE WITH COPPER ALLOY FITTINGS.

SECTION 26 2416 PANELBOARDS

1.00 DISTRIBUTION SYSTEM

A. FURNISH AND INSTALL THE ELECTRICAL DISTRIBUTION SYSTEM COMPLETE INCLUDING FEEDERS, BRANCH CIRCUITS, SWITHCBOARDS, PANELBOARDS, OUTLETS AND WIRING DEVICES.

1.13 PANELBOARDS

LIGHTING PANELBOARDS SHALL BE EATON CUTLER-HAMMER
120/208V-3 PHASE AND 480/277V OR EQUAL BY SQUARE D, CUTLER
HAMMER, GENERAL ELECTRIC OR SYLVANIA. THE CIRCUIT BREAKERS
SHALL BE BOLT ON TYPE AND SHALL HAVE THE NUMBER OF POLES
INDICATED ON THE DRAWINGS. TIE HANDLES WILL NOT BE ALLOWED,
PROVIDE DEDICATED NEUTRALS. PROVIDE AN ENGRAVED PHENOLIC
NAMEPLATE FOR ALL PANELS.

SECTION 26 0533 RACEWAYS, BOXES, FITTINGS AND SUPPORTS

1.00 WIRING DEVICES

- A. THE CATALOG NUMBERS OF ALL WIRING DEVICES, UNLESS OTHERWISE SPECIFIED ARE THOSE OF THE HUBBELL COMPANY, OR AS NOTED TO ESTABLISH THE QUALITY DESIRED. EQUAL EQUIPMENT BY GENERAL ELECTRIC, BRYANT, SIERRA, SLATER, LEVITON OR A&H WILL BE ACCEPTABLE.
- B. FURNISH AND INSTALL WALL SWITCHES AT EACH LOCATION INDICATED ON THE DRAWINGS. WHERE MORE THAN ONE SWITCH OCCURS AT THE SAME
 LOCATION, THEY SHALL BE INSTALLED UNDER A MULTIPLE GANG PLATE. SWITCH HANDLE SHALL BE WHITE COLOR. SWITCHES
- TYPE RATED 20 AMPERES AT 120 AND/OR 277 VOLTS. HUBBELL #1221.

 C. FURNISH AND INSTALL CONVENIENCE RECEPTACLE AT EACH

HANDLES SHALL BE WHITE COLOR. SWITCHES SHALL BE A.C. QUIET

LOCATION INDICATED ON THE DRAWINGS. RECEPTACLE SHALL BE 5262.

D. PLATES FOR WIRING DEVICES SHALL BE WHITE OR AS SELECTED ARCHITECT.

A.

JUNCTION BOXES SHALL BE 4 BY 4 BY 2-1/8 INCHES DEEP
WITH COVERS UNLESS OTHERWISE NOTED OR REQUIRED BY
CODE. JUNCTION BOXES ABOVE SUSPENDED CEILINGS FOR
LIGHTING AND FOR DATA/COMMUNICATION SYSTEMS SHALL BE
4-11/16 BY 2-1/8 INCHES DEEP MINIMUM, TO BE
INSTALLED ADJACENT TO RECESSED FIXTURE IN SUCH
MANNER AS TO BE ACCESSIBLE THROUGH THE OPENING IN
THE CEILING IN WHICH THE FIXTURE IS INSTALLED.

1.02 CONDUIT AND FITTINGS

- A. RACEWAYS LARGER THAN 3-INCH SHALL BE GALVANIZED RIGID STEEL UNLESS OTHERWISE SPECIFIED.
- B. RIGID METAL RACEWAYS SHALL BE INSTALLED IN WET LOCATIONS, IN OR UNDER CONCRETE SLABS ON GRADE WITH OR WITHOUT VAPOR BARRIER, IN CONCRETE WALLS AND COLUMNS, IN CONCRETE SLABS, WALLS AND COLUMNS EXPOSED TO THE WEATHER WITH OR WITHOUT VAPOR BARRIERS; WHERE EXPOSED IN AREAS OPEN TO THE WEATHER, WHERE EXPOSED ON WALLS AND COLUMNS UP 6 FEET ABOVE THE FLOOR, EXCEPT IN ELECTRICAL OR TELEPHONE RISER CLOSETS; AND IN MECHANICAL ROOMS IN SIZES LARGER THAN 1-IN UP TO 7-FEET 0 INCHES ABOVE FINISHED FLOOR.
- C. ELECTRICAL METALLIC TUBING IN SIZES UP TO 3-INCH MAY BE INSTALLED IN INTERIOR SPACES WHERE RIGID RACEWAY IS NOT REQUIRED, AND WHERE PERMITTED BY THE LOCAL CODE AUTHORITIES HAVING JURISDICTION.
- D. JOIN ELECTRICAL METALLIC TUBING WITH WATERTIGHT STEEL COMPRESSION TYPE THREADLESS FITTINGS THROUGHOUT. USE CONNECTORS OF FACTORY PRE INSULATED TYPE IN ALL SIZES. EMT FITTINGS USING SET SCREWS ARE NOT ACCEPTABLE. EMT CONNECTIONS SHALL BE OF MALLEABLE IRON OR STEEL.
- E. FLEXIBLE RACEWAY SHALL BE STEEL AND SHALL BE USED FOR REMOVABLE LIGHTING FIXTURES IN FURRED CEILING SPACES AND AT LOCATIONS AS SHOWN. USE FACTORY PRE INSULATED FITTINGS OF THE TYPE APPROVED AS GROUNDING CONNECTORS. PROVIDE GROUNDING WIRE IN ALL NON-LIQUID TIGHT FLEXIBLE RACEWAY SIZED ACCORDING TO CODE. MAXIMUM LENGTH OF FLEXIBLE RACEWAYS SHALL BE 6-FEET.
- F. SURFACE RACEWAY SHALL BE WIREMOLD #AL3100. PROVIDE DIVIDER WHERE SHOWN FOR COMBINATION POWER & DATA/COMM.

SECTION 26 0519 LOW VOLTAGE WIRES

1.00 CONDUCTORS

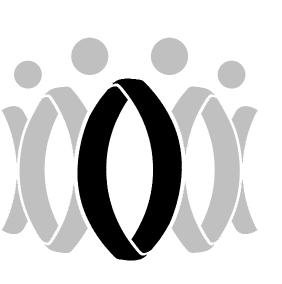
- A. ALL CONDUCTORS SHALL BE COPPER WITH THHN 90 DEGREE C
- B. CONDUCTORS SHALL BE CONTINUOUS FROM OVER-CURRENT PROTECTIVE DEVICE TO TERMINAL OR FARTHEST OUTLET. NO JOINTS SHALL BE MADE EXCEPT IN PULL, JUNCTION OR OUTLET BOXES.
- JOINTS IN WIRES SMALLER THAN NO.6 SHALL BE MADE WITH IDEAL SUPER WIRE NUTS OR SCOTCH TYPE "R", "Y" OR "B" SPRING CONNECTORS. JOINTS IN WIRES NO. 6 AND LARGER SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTORS. ALL JOINTS IN CABLES NO. 6 AND LARGER SHALL BE INSULATED AND TAPED.
- D. NEUTRAL CONDUCTORS SHALL NOT BE BROKEN AT ANY DUPLEX RECEPTACLE, LIGHTING FIXTURE OR SIMILAR WIRING DEVICE IN MULTI-WIRE (3 WIRE OR 4 WIRE) CIRCUITS. GROUNDED NEUTRAL SHALL NOT DEPEND ON DEVICE CONNECTIONS FOR CONTINUITY. NEUTRAL WIRES CAN BE SPLICED TOGETHER WITH PIGTAIL TO NEUTRAL TERMINAL ON RECEPTACLE, LIGHTING FIXTURE OR SIMILAR DEVICE. IF DEVICE OR FIXTURE IS REMOVED, NEUTRAL WILL REMAIN CONTINUOUS.

1.01 EQUIPMENT CONNECTIONS

A. MAKE CONNECTIONS TO ALL MOTORS, MOTOR CONTROLLERS AND ELECTRICALLY OPERATED EQUIPMENT WHETHER FURNISHED AS A PART OF THIS CONTRACT OR FURNISHED BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT. FURNISH AND INSTALL ALL CONDUITS AND CONDUCTORS REQUIRED FOR THESE CONNECTIONS AND FOR CONTROL WIRING AS INDICATED BY ELECTRICAL IN OTHER

.02 DISCONNECT SWITCHES AND CONTROL WIRING

- FURNISH AND INSTALL HORSE POWER RATED DISCONNECT SWITCHES FOR ALL MOTORS, CONTROL CIRCUITS AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED BY CODE WHETHER OR NOT SHOWN ON THE DRAWINGS. A DISCONNECT SWITCH SHALL BE LOCATED WITHIN SIGHT FROM THE CONTROLLER DISCONNECT LOCATION. WHERE A MOTOR IS NOT WITHIN SIGHT FROM THE CONTROLLER DISCONNECT LOCATION AN ADDITIONAL DISCONNECTING SWITCH SHALL BE PROVIDED WITHIN SIGHT OF THE MOTOR LOCATION.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE MECHANICAL CONTRACTOR FOR ITEMS, DEVICES OR EQUIPMENT THAT THE ELECTRICAL CONTRACTOR IS TO FURNISH, INSTALL AND/OR CONNECT FOR THE HEATING, VENTILATING, AIR CONDITIONING AND PLUMBING SYSTEM DEVICES UNDER THIS CONTRACT.



FLEWELLING & MOODY architecture planning interiors

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All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL

OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

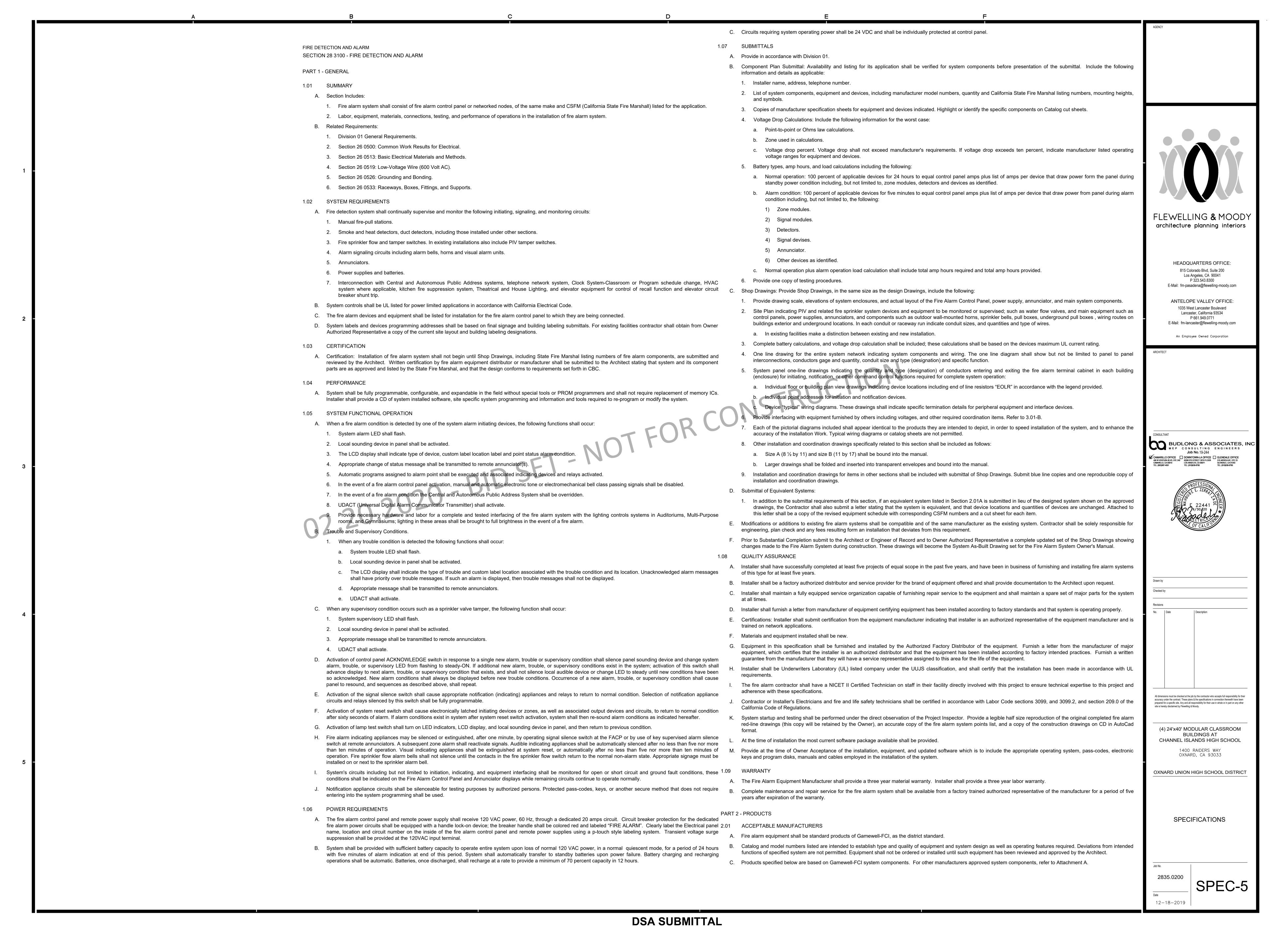
SPECIFICATIONS

Job No.

SPEC-4

12-18-2019

DSA SUBMITTAL



FIRE DETECTION AND ALARM SECTION 28 3100 - FIRE DETECTION AND ALARM (CONTINUED) 2. CPU shall receive analog information from intelligent detectors to be processed to determine whether normal, alarm, pre-alarm, or trouble conditions exist for each 2.02 FIRE ALARM CONTROL PANEL (FACP) OR NETWORK NODES detector. The software shall automatically maintain the detector's desired sensitivity level by adjusting for the effects of environmental factors including the accumulation of dust in each detector. The analog information shall also be used for automatic detectors testing and for the automatic determination of detector maintenance A. Furnish Gamewell-FCI Model No. E3 Series, (CSFM 7165-1703:0125). requirements. B. Operator Control: G. Enclosures: Acknowledge Switch: Activation of control panel acknowledge switch in response to a single new trouble or alarm condition shall silence panel sounding device and The control panel shall be housed in a UL-listed cabinet suitable for surface or semi-flush mounting. The cabinet and front shall be corrosion protected, given a change system alarm or trouble LED from flashing to steady-ON. If additional new alarm or trouble conditions exist in system, activation of this switch shall advance rust-resistant prime coat, and manufacturer's standard finish. display to next alarm or trouble condition that exists, and shall not silence local audible device or change LED to steady until new conditions have been so acknowledged. New alarm conditions shall always be displayed before new trouble conditions. Occurrence of a new alarm or trouble condition shall cause panel to resound, and The back box and door shall be constructed of 0.030 steel with provisions for electrical conduit connections into the sides and top. sequences as described above, shall repeat. The supplied door shall include a key lock and shall include glass or other transparent opening for viewing of indicators. For convenience, the door may be site 2. Signal (Alarm) Silence Switch: Activation of the signal silence switch shall cause programmed alarm notification appliances and relays to return to the normal condition configured for either right or left hand hinging. after an alarm condition. The selection of notification circuits and relays that are silenceable by this switch shall be fully fielded programmable within the confines of H. Power Supply: applicable standards at the job site. The FACP software shall include silence inhibit and auto-silence timers. Alarm Activate (Drill) Switch: Alarm activate switch shall activate notification appliance circuits. The drill function shall latch until the panel is silenced or reset. 1. An off-line switching power supply shall be available for the fire alarm control panel or network node and provide six amps of available power for the E3 Series control panel and peripheral devices. 4. System Reset Switch: Activation of the System Reset switch shall cause electronically-latched initiating devices, appliances or software zone, as well as associated output devices and circuits, to return to their normal condition. 2. Provisions shall be made to allow the audio-visual power to be increased as required by adding modular expansion audio-visual power supplies. 5. Lamp Test Switch: Switch shall activate local system LEDs, light each segment of the liquid crystal display and display the panel software revision for service personnel. Over-current protection shall be provided on power outputs. The power supply shall provide an integral battery charger. Battery arrangement may be configured in the 6. Hot Button Switch: Hot Button Key switch shall be provided in FACP to disable all output devices for testing or repair of system. Key switch shall silence all horn and strobes, disable PA cutouts, HVAC shutdowns, door closures, and Autonomous PA systems. Key switch shall be password protected to enable function. LED indicator The power supply shall continuously monitor field wires for earth ground conditions, and shall have the following LED indicators: shall illuminate a trouble condition while Hot Button Switch is activated and shall turn off when system is re-enabled. a. Ground Fault LED. C. System Capacity and General Operation b. AC Power Fail LED 1. The control panel or each network node shall provide, or be capable of expansion to 488 intelligent or addressable devices for the E3 Series control panel. FLEWELLING & MOODY c. NGA on LED (4). 2. The control panel or each network node shall include Form-C alarm, trouble, supervisory, and security relays rated at a minimum of two amps at 30 VDC. It shall also architecture planning interiors 5. The main power supply shall operate on 120 VAC, 60 Hz, and shall provide power for the FACP or network node(s). include four Class B (NFPA Style Y) or Class A (NFPA Style Z) programmable Notifications Appliance Circuits. The main power supply shall provide a battery charger using dual rate charging techniques for fast battery recharge and be capable of charging batteries up to 90 AH for 3. The control panel or each network node shall support up to two output modules (signal or relay) for a total of eight output modules (signal or relay), each with eight the E3 Series FACP. circuits for a total of 64 circuits for the E3 Series control panel. Programmable notification appliance circuits shall be class B. 4. The system shall include a full featured operator interface control and annunciation panel that shall include a backlit Liquid Crystal Display (LCD), individual color coded 2 03 REMOTE ANNUNCIATORS system status LEDs, and an alphanumeric keypad with easy touch rubber keys for the field programming and control of the fire alarm system. **HEADQUARTERS OFFICE:** A. A non-networked fire alarm system annunciator is required when there is only one FACP in the system. Provide a Gamewell-FCI Model No. LCD-E3 (CSFM7165-1703:0125), 815 Colorado Blvd, Suite 200 5. The system shall be programmable, configurable, and expandable in the field without the need for special tools, PROM programmers or PC based programmers. It shall alphanumeric display remote annunciator, or equal. A Network annunciator is required for any system that contains more than one fire alarm control panel (FACP) or network Los Angeles, CA 90041 not require replacement of memory ICs to facilitate programming changes. node. Display shall be back lit and be furnished with a maximum of 77 characters for the LCD-E3. Provide the following functions: P 323.543.8300 E-Mail: fm-pasadena@flewelling-moody.com 6. The system shall allow the programming of any input to activate any output or group of outputs. The FACP shall support up to 20 logic equations, including "and" "or" 1. Control switches for system acknowledge, signal silence and system reset via a touchpad. and "not", or timed delay equations to be used for advanced programming. Logic equations shall require the use of a PC with software utility designed for programming. 2. Time and date display field. ANTELOPE VALLEY OFFICE: 7. The FACP or each network node shall provide the following features: 1035 West Lancaster Boulevard 3. Local piezo sounder with alarm or trouble resound. Lancaster, California 93534 a. Drift compensation to extend detector accuracy over life. Drift Compensation shall also include a smoothing feature, allowing transient noise signals to be filtered P 661.949.0771 4. On-line green LED (flashing). E-Mail: fm-lancaster@flewelling-moody.com Evacuation and drill switches, via a touchpad. b. Detector Sensitivity tests, meeting requirements of NFPA 72 Chapter seven. An Employee Owned Corporation 6. Pre-signal hold via a touchpad. c. Maintenance alert, with two levels (maintenance alert or maintenance urgent), to warn of excessive smoke detector dirt or dust accumulation. 7. System test at control panel and CTR. d. Nine sensitivity levels for alarm, selected by detector. The alarm level range shall be 0.5 to 2.35 percent per foot for photoelectric detectors and 0.5 to 2.5 percent per foot for ionization detectors. The system shall also support sensitive advance detection laser detectors with an alarm level range of 0.03 percent per foot to one Following additional features shall be furnished: percent per foot. The system shall also include up to nine levels of Pre- alarm, selected by detector, to indicate impending alarms to maintenance personnel. Device Fire Annunciation. e. Circuit boards, programming, and interconnecting cables to enable the system to display or print system reports. 2. Device Trouble Annunciation Alarm verification, with counters and a trouble indication to alert maintenance personnel when a detector enters verification 20 times. 3. System Operation Annunciation g. PAS pre-signal, meeting NFPA 72 requirements. "Power On" LED. h. Rapid manual station reporting (less than three seconds) shall meet NFPA 72 Chapter one requirements for activation of notification circuits within ten Seconds of initiating device activation. C. Typewritten operating instructions and a site map shall be posted adjacent to remote annunciator(s). The site map shall be sized and include designations and devices as described in paragraph 3.02 N. of this specification. Project site map shall depict fire alarm devices in the building(s) in which they are installed. The instruction and site map Periodic detector test, conducted automatically by the software. shall be mounted in suitable document frames and attached to the wall with a minimum of two screws each. Contractor's name and telephone number shall not be placed on either the instruction or the site map. Self optimizing pre-alarm for advance fire warning, which allows each detector to learn its particular environment and set its pre-alarm level to just above normal 2.04 POWER SUPPLIES k. Cross zoning with the capability of counting: two detectors in alarm, two software zones in alarm, or one smoke detector and one thermal detector Job No.19-244 A. NOT USED. CAMARILLO OFFICE DOWNTOWN-LA OFFICE GLENDALE OFFICE
400 W VENTURA BLVD, STE 240
CAMARILLO, CA 93010
TEL: (08)9697-4001
TEL: (08)9697-4001
GLENDALE, CA 91203
TEL: (18)9698-8780
TEL: (18)9698-8780
TEL: (18)9698-8780 Walk test, with a check for two detectors set to same address. m. Control-by-time for non-fire operations, with holiday schedules PERIPHERAL DEVICES AND EQUIPMENT n. Day or night automatic adjustment of detector sensitivity. A. Manual Stations: Interior Use: Station shall be Gamewell-FCI, Model No. MS Series (CSFM 7150-1703:0109) or equal, addressable semi-flush, non-breakable glass type. Station housing shall be fabricated of die-cast aluminum with reset lock and key. Provide an addressable monitor module Model No. AMM-4F (CSFM 7300-1703:0103) for 8. The FACP shall be capable of coding main panel(s) node notification circuits in temporal code (NFPA 72 A-2-2.2.2). The panel shall also provide a coding option that will each manual station. synchronize specific strobe lights designed to accept a specific "sync pulse". B. Smoke Detectors: Smoke Detectors shall be Gamewell-FCI Model No. ASD-IL2F (CSFM 7271-1703:0206) or equal, addressable smoke detectors. Provide base Model No. Network Communication: B210LP. (CSFM 7135-1653:0213). Detector shall be microprocessor based, using a combination of photoelectric, and thermal sensing technologies. The smoke detector shall have its loop number and electronic address permanently and clearly labeled onto the device base using a p-touch type labeling system. The label shall be visible The network architecture shall be based on a Local Area Network (LAN), a firmware package that utilizes a peer-to-peer, inherently regenerative communication without removing the detector head. ormat and protocol. The protocol shall be based on ARCNET or equivalent non-proprietary protocol. Non-Explosion Proof Automatic Heat Detectors shall be combination rate-of-rise and fixed-temperature type. When fixed-temperature portion is activated, units shall provide Failure of any node shall not cause failure or communication degradation of any other node or change the network communication protocol among surviving nodes visual evidence of such operation (LED). Addressable Heat detectors shall be Gamewell-FCI Model No. ATD-RL2F (CSFM 7270-1703:0115) or equal. Provide base Model located within distance limitations. A node may be an intelligent Fire Alarm Control Panel (FACP), Network Control Station PC (NCS) or Network Graphic No. ADB-FLF. (CSFM 7300-1703:0103) The location of the heat detector must be clearly marked below the ceiling and the detector must be readily accessible. The heat Annunciator (NGA) detector shall have its electronic address permanently and clearly labeled onto the device and be readily accessible. For spaces where the normal ambient temperature can c. Each network node address shall be capable of storing Event Equations which shall be used to activate outputs on one network node from inputs on other network reach temperatures as high as 150 degrees F. such as in attic spaces, use Gamewell-FCI ATD-HL2F with base ADB-FLF. The heat detector shall have its loop number and electronic address permanently and clearly labeled onto the device using a p-touch labeling system. The label shall be visible without removing the detector head. D. System Display: D. Explosion Proof Automatic heat Detectors: NOT USED. Utilize the 640-character display option. The design of the CPU shall provide for a configuration with the 640-character display mounted on the front of the unit in place E. Weatherproof Automatic heat Detectors: NOT USED of the standard 80-character display. F. Duct Smoke Detectors: NOT USED. 2. The 640-character display shall provide the controls and indicators used by the system operator: The 640 character display shall include the following operator control G. Projected Beam Infrared Type Smoke Detectors: NOT USED. switches; Acknowledge, Alarm, Silence, Alarm Activate (drill), System Reset and Lamp Test. H. Linear Heat Detectors: NOT USED. 3. The display shall annunciate status information and custom alphanumeric labels for intelligent detector, addressable modules, internal panel circuits, and software zones. Multi-Criteria Fire Detectors (MS and HS Only): NOT USED. 4. The 640-character display shall provide ten Light-Emitting-Diodes (LEDs) that indicate the status of the following system parameters: AC Power and Network Communication, Fire Alarm, Pre alarm Warning, Security Alarm, Supervisory Event, System Trouble, Alarm Silence, Disabled Points, CPU failure. J. Monitor Modules: 5. The 640-character display shall use ten "soft" keys for screen navigation or to accomplish dedicated programming functions. Full programming access shall require use Monitor module shall be Gamewell-FCI Model No. AMM-2IF (CSFM 7300-1703:0107), or equal. Module shall connect a supervised zone of conventional initiating of a laptop and the proper programming utility. The programming utility shall be provided to the OAR who will forward it to the local maintenance area representative. devices, N.O. dry contact devices, including four-wire smoke detectors, to one of SLC loops. Monitor module shall install in a four-inch square by 2 1/8-inch deep electrical box. The module shall have its loop number, electronic address, and function label on the front cover using a P-Touch type or equal labeling system. 6. The system shall support the display of battery charging current and voltage on the LCD display Monitor module shall provide address-setting means using rotary decimal switches and shall store an internal type of device. An LED shall be provided which shall flash Network Graphic Annunciator (NGA): under normal conditions indicating that monitor module is operational and in regular communication with control panel. When a networked system is installed a network controlled annunciator shall be provided to display system intelligent points. The NGA shall be capable of displaying K. Control Modules: NOT USED. information for all possible points on the network. 2. The NGA shall include a minimum of 640 characters, backlit by a long life, solid-state LCD display. Additionally, the network display shall include ten soft keys for screen Il dimensions must be checked at the job by the contractor who accepts full responsibility for their navigation and the ability to scroll events by type. i.e. Fire Alarm, Supervisory Alarm, Trouble, etc. accuracy under the contract. These plans & the specifications in connection therewith have been Relay Module shall be Gamewell-FCI AOM-2RF (CSFM 7300-1703:0102) the module shall provide as a minimum one set of form "C" dry contacts and have its loop prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Mood number, electronic address, and function labeled on the front cover using a P-Touch type labeling system. 3. The NGA shall have the ability to display up to eight events in order of priority and time of occurrence. Counters shall be provided to indicate the total number of event by Provide a buffer relay that is part of the control system if controlled circuit(s) exceeds the voltage or current rating of the relay module. 4. The NGA shall mount in a Gamewell-FCI ABS-2DB or equal box; provide the NGA with a key enable or disable switch for the network node fire alarm control panels. (4) 24'x40' MODULAR CLASSROOM The network display may mount in a backbox designed for this use. The network shall support the NGAs. **BUILDINGS AT** 3. Relays used to interface control of other systems shall be electrically supervised and shall only be wired in a fail-safe mode of function during a power failure. CHANNEL ISLANDS HIGH SCHOOL 5. The network control annunciator shall have an event history buffer capable of storing a minimum of 1000 events in nonvolatile memory. Additionally, the NGA shall have M. Isolator Modules: NOT USED. a fire alarm history buffer capable of storing a minimum of 200 events in nonvolatile memory. 1400 RAIDERS WAY OXNARD, CA 93033 N. Speakers and Strobes: Speakers and strobes shall be products of the same manufacturer. In order to establish a standard of quality, items are specified from the products 6. The NGA shall include two EIA-232 ports for UL864 listed printers and CRT's. manufactured by System Sensor, acceptable manufacturers are Honeywell, Wheelock Inc., Gentex equal. Addressable or multifunction two wire indicating (Audible or Visual) 7. The NGA shall include control switches for system wide control of Acknowledge, Signal Silence, System Reset, Drill, and local Lamp Test. A mechanical means, by appliances shall not be acceptable. OXNARD UNION HIGH SCHOOL DISTRICT which the controls switches are locked out, such as a key, shall be provided. 1. Alarm horns: NOT USED. 8. The NGA shall include long life LEDs to display Power, Fire Alarm, Pre-Alarm, Security Alarm, System Trouble, Supervisory, Signals, Silenced, Disabled Prints, other Speaker/strobe shall be wall mounted System Sensor Model No. SPSR standard candela output (CSFM 7320-1653:0201); or equal. Speaker/strobe shall operate on two separate two wire 24 VDC polarized circuits and shall be provided with a semi-flush mounting plate. Entire unit shall be red finish. Strobe light shall have a clear 9. The NGA shall include a Master Password and up to nine user Passwords. The Master password shall be required to access the programming and alter status menus. Lexan lens. The word "FIRE" shall be printed on the two sides of the strobe body. Horn shall provide a minimum sound output of 100 dB at 10 feet. The strobe shall Each User password may have different levels of authorization assigned by the Master password. Passwords installed into the NGA shall be made available to the OAR provide a selectable minimum light intensity of 15, 30, 60, 75, 90, 110, 135, 150, or 185 Candela as indicated on Drawings to meet or exceed requirements of CBC, who will forward them to the local maintenance area representative. CHAPTER 11B AND ADAAG and UL 1971. Horn/Strobes shall be mounted on manufacturer recommended outlet boxes. Provide a model No. BBS-2 back box skirt on **SPECIFICATIONS** indoor surface mounted outlet boxes. 10. The NGA shall allow editing of label for points within the network, control on or off of outputs, enable or disable of network points, alter detector sensitivity, clear detector verification counters for any analog addressable detector within the network, clear any history log within the network, change the Time or Date settings, initiate a Walk 3. Strobes: NOT USED. 4. Strobe synchronization modules: NOT USED. 11. The NGA shall include a time of day clock. O. Electromagnetic Door Holder: NOT USED. 12. Each NGA shall support 80-character remote display annunciators for displaying network activity. These "Terminal Mode" displays will mimic the activity appearing on Bells: NOT USED. the corresponding NGA. There shall be only one annunciator or control system consisting of components manufactured by one manufacturer for the fire alarm system. Q. Water-flow Switches: F. Signaling Line Circuits (SLC): Water-flow switches: NOT USED 1. Each FACP or FACP network node shall support a minimum of two SLC for the Gamewell-FCI E3 Series control panel. Each SLC interface shall provide power to and SPEC-6 communicate with up to 159 intelligent detectors (ionization, photoelectric or thermal) and 159 intelligent modules (monitor or control) for a loop capacity of 318 devices. Sprinkler valve tamper switches: NOT USED. R. Universal Digital Alarm Communicator Transmitter: See FACP. 12-18-2019

BUDLONG & ASSOCIATES, INC

FIRE DETECTION AND ALARM SECTION 28 3100 - FIRE DETECTION AND ALARM (CONTINUED) S. Voice Evacuation System: The following functions and features as required by the site or system configuration and installed peripheral equipment and systems shall be programmed into the district fire 1. The Voice Evacuation Control (EVAC) Panel shall be Gamewell-FCI Model No. FireVac IV (CSFM 6911-1703:0112) The self contained control panel shall be equipped alarm systems. The definition of programming shall include but not be limited to the use of a built in keyboard, the use of a connected PC with the appropriate software, dip or with dual 25 watt audio amplifiers each with a single style Y (Class B) supervised 25 V rms output circuit. The EVAC panel shall have the ability to record a minimum of rotary switches, wiring or installable or removable jumpers as required or provided in the fire alarm equipment. two field-programmable messages of up to 60 seconds total duration with an integral microphone or an external source via an audio input jack. The messages shall be stored digitally onto a non-volatile EEPROM. The message(s) shall be individually field programmable for three, four, six, eight, or indefinite repeat while triggered by the Signal Silence Switch Inhibit: The audible signal silence switch located on the remote fire alarm annunciator(s) or any fire alarm control panel(s) shall be programmed to host FACP. Any message being delivered at the time of the trigger circuit(s) reset shall not stop in mid sentence but shall be completed to the end of the message. A not silence the audible or extinguish the visual alarm circuits during the first minute (60 seconds) of the fire alarm horn or strobe activation. Activation of this switch after tone generator shall be provided capable of emulating a field programmable lead-in or trailing alert tone or an Audible Emergency Evacuation Signal (Temporal Pattern). the initial 60 seconds signaling shall silence only the audible signals. Enabling or disabling this feature shall be allowed only by authorized District maintenance personnel The EVAC panel shall be capable of electrically supervising in both active and standby conditions, the amplifier outputs, field wiring, message generator, tone generator, and shall be protected by a maintenance level password. microphone and primary or secondary power supplies to an internal trouble relay(s). The trouble relay(s) contacts shall be accessible via a terminal strip and be Audible and Visual Signal Auto Silencing Extinguishing: Audible coded signals and visual signals throughout the site, unless silenced by the above switch, shall be configured and connected to report internal or external trouble conditions to the host FACP via the trigger circuit or a separate monitor module. The minimum of two programmed to automatically self-silence or extinguish in no less than 5 minutes (300 seconds) and no more than 10 minutes (600 seconds). This feature shall not apply trigger circuits shall be individually field-configurable for triggering with a NAC circuit or a supervised dry contact. The control panel shall be equipped with LED indicator to the fire sprinkler water flow audible appliance. lights for Power On, System Trouble, Message Generator Trouble, Tone Generator Trouble, Microphone Trouble, Battery Trouble, Charger Trouble, Ground Fault, Output Circuit Trouble and Amplifier Supervisory. The panel shall be equipped with an internal monitor speaker for reviewing the field recorded messages. The primary Audible Notification Appliance Circuits: Audible notification appliance circuits shall be programmed to emulate the temporal code (ANSI S 3.41) from fire alarm audible power supply shall operate at 120 VAC through a dedicated 20 amp. circuit and shall be capable of charging 18 AH lead acid batteries. Provide two 12 volt batteries that appliances (horns). This coding shall originate and be controlled by a single coder residing within the FACP(s). The use of coders within remote power supplies either will provide a secondary power source for the same or longer duration than is required by the host FACP. An auxiliary 24 volt DC power output shall be provided for use mounted adjacent to an FACP or at a remote location or directly by an audible notification appliance will not be permitted. Programmable audible notification appliances by an associated addressable control module. The EVAC control panel shall be triggered either directly by the associated FACP with a NAC circuit or by an addressable shall be configured to emulate a steady tone at approximately 1000 Hz. Audible notification appliance circuits shall be programmed to be silenced as described above. control module. Provide 3/8 inch minimum P Touch labeling on the window in front of the built in microphone indicating that "THE INTERNAL MICROPHONE IS TO BE Notification appliance circuits throughout the site shall be activated by any alarm initiating device. Coded audible signals shall be controlled by a single synchronized USED FOR THE RECORDING OF ANNOUNCEMENTS ONLY. NOT FOR USE BY STAFF OR FIRE DEPARTMENT PERSONNEL." 2. Ceiling Mounted eight Inch EVAC Speakers: NOT USED. 4. Visual Notification Appliance Circuits: Visual notification appliance circuits shall be programmed to provide steady non-coded power to the visual appliances (strobes). As required by code and the system configuration, a synchronization signal shall be superimposed onto the NAC by the FACP, a remote power supply or an add-on 3. Wall Mounted weather-proof EVAC Speakers shall be System Sensor Model No. SPRK (CSFM 7320-1653:0201) to be mounted on a manufacture recommended outlet synchronization module. Visual notification appliance circuits shall be programmed to be extinguished as described above. Visual notification appliance circuits through box. When mounted on a surface mount outlet box, Provide a Model No. WBB-W surface mount backbox skirt. The speaker assembly shall be supplied with a square high impact red grill. The four inch speaker shall have an attached 25 volt audio line matching transformer with 1/4, 1/2, 1 and 2 watt tap settings and a DC blocking out the site shall be activated by any alarm initiating device. capacitor. Wattage shall be selectable by the use of a jumper or shunt. Audio levels shall be 80, 84, 86 or 89 dba at ten feet. Input or Output terminals that will System Reset Button: The system reset button located on FACPs and remote annunciators in addition to resetting the fire alarm system and silencing or extinguishing accommodate 12 to 18 AWG wire shall be provided. Speakers orientated in the same direction shall be connected in phase with each other; but when installed facing notification appliances except for the sprinkler water flow appliances shall be programmed to reset analog and addressable smoke detectors, duct detectors, beam opposite directions they shall be connected out of phase. detectors and relays, addressable control modules and addressable relay modules used to interface to other systems and equipment. Each installed system reset button FLEWELLING & MOODY shall be programmed to operate as a "single point of reset" for the complete system. T. Network Cables or SLC or Annunciator Data or Audio Output Cables: The construction and physical characteristics such as aqua-seal water block, wire gage, insulation and architecture planning interiors jacket types, etc. shall not be altered. Equivalent cables must be specifically approved and recommended by the manufacturer of the fire alarm system equipment. 6. Fire Fighter Warning: In conjunction with the above elevator recall function, an additional addressable relay module shall be programmed to operate only with the Substitutions will require review from the Architect or Engineer of Record. detection of smoke by a detector located in an elevator machine room or elevator hoistway to provide a warning signal to fire fighters attempting to use the phase II U. The cable types listed below are based and specified on the recommendations of Gamewell-FCI Fire Alarm Systems. If the submitted fire alarm system requires a different elevator function. cable configuration with additional conductors, multi-conductor versus twisted pairs, etcetera than is specified above, request a substitution to supply and install the 7. Smoke Detector Maintenance Alert: Addressable smoke detectors shall be programmed with the capability of initiating a maintenance alert when any one detector configuration of cables by the make and model of the fire alarm system that is to be installed. becomes obscured by dust or any other contaminates at approximately 10 percent below the level of obstruction that would initiate an alarm. **HEADQUARTERS OFFICE:** 1. Indoor Network and EVAC System Audio Output Circuit(s) applications shall be in conduit or in surface mounted raceway as indicated on drawings: West Penn No. 8. Disabling Class Passing Signals: The relay or addressable relay module shall be programmed to disable the class passing signals during any alarm condition at the site. 815 Colorado Blvd, Suite 200 D980, one pair 18 gage solid copper, unshielded, Copolene II insulated and PVC jacketed, or equal. Los Angeles, CA 90041 This relay or addressable module shall return to normal only after the system is reset. P 323.543.8300 2. Indoor SLC applications in conduit or in surface mounted raceway where it is indicated on drawings: West Penn No. D990, one pair 16 gage solid copper, unshielded, E-Mail: fm-pasadena@flewelling-moody.com 9. Disabling Audio of a Public Address System: The relay or addressable relay module shall be programmed to mute the audio output of the associated public address Copolene II insulated and PVC jacketed, or equal. system during any activation of an audible notification appliance circuit or a voice evacuation announcement. This or these relays shall automatically restore to normal upon the silencing of the audible NACs and the voice evacuation announcement. 3. Indoor Annunciator applications in conduit or in surface mounted raceway where it is indicated on drawings: West Penn No. D975, one pair 18 gage solid copper, ANTELOPE VALLEY OFFICE: shielded, Copolene II insulated and PVC jacketed, or equal. 1035 West Lancaster Boulevard 10. UDACT: The FACP and the associated Universal Digital Alarm Communication Transmitter shall be programmed to transmit to the central monitoring station separate Lancaster, California 93534 indications for General Alarm, Fire Sprinkler Water Flow Alarm, System Trouble and Supervisory Conditions. These indications shall be in addition to any indications 4. Outdoor or Underground Network Applications: West Penn AQ224, two-conductor 18 gage stranded copper, unshielded, water-blocked construction and PVC insulated, P 661.949.0771 E-Mail: fm-lancaster@flewelling-moody.com 11. Voice Evacuation Panel: The NAC originating at, or the addressable control module controlled by the associated FACP that is controlling the EVAC panel shall be Outdoor or Underground SLC applications: West Penn AQ225, 2-conductor 16 gage, AQ226, 2 conductor 14 gage, or AQ227, 2 conductor 12 gage stranded copper, An Employee Owned Corporation programmed to emulate the above paragraph "E" Audible Notification Appliance Circuits except that it shall be non-coded. Trouble conditions at the EVAC panel shall unshielded water-blocked construction and PVC insulated, or equal. report back to the associated FACP via the controlling NAC or addressable control module or a separate addressable monitor module. Transformer taps at the EVAC 6. Outdoor or Underground Annunciator applications: West Penn AQ293, 2 conductors, 18 gage stranded copper, shielded water-blocked construction and PVC insulated, speakers shall be selected to provide the proper balance of audio volume in larger and smaller areas. The message shall be programmed in a female voice in the English or equal. language as follows: A minimum of two but no more than three cycle sounding of an approximate 1000 Hz tone in the pattern of the NFPA required temporal code followed by: "May I have your attention please. May I have your attention please". The fire alarm has been activated in the building. The fire alarm has been activated in V. Protective Covers the building. Please proceed to the nearest exit and leave the building." The sounding of the temporal patterned signal followed by the indicated message shall repeat 1. Provide protective covers for pull stations, smoke and heat detectors, and audible and visual devices located in areas occupied by students that can be subjected to indefinitely until the controlling NAC is reset. vandalism such as gyms, restrooms, locker and shower rooms, and all hallways and corridors associated with these spaces. Installation of cover must not protrude over 12. Power Failure Reporting Time Delay: Main and remote NAC power supplies shall be programmed to delay the reporting of a site AC power failure for a minimum of 6 current ADA limitations. Device Descriptors PART 3 - EXECUTION Descriptors shall enable responding personnel to identify the location of a fire quickly and accurately, and shall indicate the status of emergency equipment or fire safety GENERAL functions that might affect the safety of occupants. The minimum required information for devices intended to report smoke, fire, or fire sprinklers water flow include, but may not be limited to: Building, floor (if multiple floors exist in the building), room or space description, and device type and digital address (Smoke detector, Heat A. Fire alarm system shall not be used for any purpose other than fire alarm functions detector, Fire sprinkler water flow switch, etc). B. Fire alarm shall be interconnected but not limited to the following systems: a. Building: The building must always be included in the descriptor, even if there is only one building one the site. Additional building(s) may be added at a later date BUDLONG & ASSOCIATES, INC 1. Systems required by code to be connected to the fire alarm systems shall be connected. creating the possibility of confusion by similar designated spaces, such as "Work room" or "Staff restroom" if more than one building has these similar designated Job No.19-244 spaces. The building designation in the descriptor must be what the site-based personnel call the building. The building should be provided with signage to aid fire 2. Public address system for disabling the manual and automatic bell or tone class passing signals. Manual and automatic class passing signals shall not be operable CAMARILLO OFFICE DOWNTOWN-LA OFFICE GLENDALE OFFICE
400 WVENTURA BIVD, STE 240
633W.5TH STREET 26TH FLOOR
CAMARILLO, CA 93010
1EL: (805)987-4001
1EL: (816)588-6780
1EL: (816)588-6780
1EL: (816)588-6780 department personnel in the identification of the building. during alarm conditions. c. Room Description: The room or space description must be unique. Using the same designation for multiple spaces, such as "Workroom", "Counselor's Office", or 3. Central and Autonomous PA system(s) "Men's restroom", etc. is not acceptable. If, during a project, the room numbers or the use of the room changes then the room or space descriptor must be changed to agree with the change. Proper signage should be provided for each space to aid fire department personnel in the identification of the room or space. 4. Fire pump controller for required signaling and trouble supervis C. Fire alarm system shall not be interconnected to any of the following d. Device Type, Address and Compass Designations: The device type and digital address must be included with the descriptor, such as smoke detector or heat detector, etc. Some systems provide this information automatically in the descriptor. Compass designations, (N, S, E, and W) are required in spaces such as Sump warning systems, corridors where there are multiple detectors and this information would be helpful to responding fire department personnel in locating the device reporting alarm. It is not necessary to include compass designations in smaller spaces where there are multiple detectors located in close proximity to each other. Carbon monoxide detection systems E. ACCEPTABLE ABBREVIATIONS Methane gas detection systems Elevator car alarm bell circuit. Rm.- RoomBldg.- BuildingSmk. - SmokeCorr.- CorridorLby- LobbyAsst. - AssistantEng.- EnglishN - NorthNrs. - NurseFlr.- FloorS - SouthCnclr - CounselorHt.- HeatE - EastOff. OfficeLib.- LibraryW - WestPE - Physical EducationLkr. - Locker Kit- KitchenRR- Rest RoomStu Str - Student StoreSci - ScienceBy = nearStor Rm - Store RoomCafé -5. Other unrelated system CafeteriaPM - Plant Manager1St - First2nd - Second3rd - ThirdHopr Rm - Hopper RoomDet - DetectorElev - ElevatorPrin - PrincipalBlr Rm - Boiler RoomConf - ConferencePark - ParkingBsmt -BasementMPR.- Multi-Purpose room3.04 SYSTEM OPERATION SYSTEM INSTALLATION A. Unless otherwise specified, but not limited to actuation of manual stations, smoke detectors, heat detectors, linear heat or smoke detectors, or water-flow switches shall cause A. Install required conductors to devices indicated on Drawings. Provide required conductor terminations to devices for a complete system to function as specified and indicated the following operations to occur, refer to Attachment B: on Drawings. Refer to Section 26 0519: Low-Voltage Wire (600 Volt AC), for installation and color coding requirements. Activate audible circuits. B. Splices are not allowed in junction boxes. Terminations shall be in terminal cabinets or on equipment terminals. Actuate strobe units until the panel is reset or strobe circuit time-out C. Conductors shall be installed within conduits, boxes, and terminal cabinets in a totally enclosed installation. Furnish and install conductors required to connect incoming and 3. Release magnetic door holders to doors to adjacent zones on the floor from which the alarm was initiated outgoing circuits, including spare conductors, to terminal strips within terminal cabinets. 4. Where required, return elevators to the primary or alternate floor of egress. D. Wiring within equipment and terminal cabinets shall be installed to conform to contract documentation and NFPA 72 standards, and shall be terminated on terminal blocks having terminals for required connections. Wiring shall be cabled, laced, and securely fastened in place so that no weight is imposed on equipment or terminals. 5. Smoke detectors in elevator lobbies shall, in addition to the above functions, return elevators to the primary or alternate floor of egress. E. Install required terminal blocks within terminal cabinets. Terminal blocks shall be installed on inside back of cabinets only, not on side. Incoming wiring shall be terminated on 6. Smoke detectors in elevator machine rooms or tops of hoist-ways shall return elevators to the primary or alternate floor. Smoke detectors or heat detectors installed to the left side of terminal blocks; outgoing wiring shall be terminated on the right side of the terminal blocks. shut down elevator power shall perform this function in accordance with ANSI A 17.1 requirements and shall be coordinated. F. Conductors shall be color-coded per specification section 26 0519 Low Voltage wires and tagged with code markers at terminal cabinets, and equipment. A wire index shall be 7. Duct type smoke detectors shall, in addition to the above functions, shut down the ventilation system or close associated control dampers as required. typed and installed on terminal cabinet doors. Index shall be covered with clear plastic adhesive covers. Wiring shall be identified as to building and location of devices in the 8. Activation of fire sprinkler system low-pressure switches, post indicator valve or tamper switches shall initiate a system supervisory alarm indication. G. Wiring within equipment and terminal cabinets shall be carefully strapped, and shall be formed in rectangular configuration. Wires shall be properly numbered in numerical 9. UL listed central station shall be notified via - Universal Digital Alarm Communicator Transmitter (UDACT). order and shall maintain same number throughout the Project site. H. Complete installation shall comply with local building codes and applicable provisions of the California Electrical Code, California Fire Code and the NFPA 72 National Fire 3.05 TESTING Alarm Code. A. A 48 hour notice shall be provided to the Project Inspector before final testing. Il dimensions must be checked at the job by the contractor who accepts full responsibility for their Location of outlet boxes and equipment on Drawings is approximate, unless dimensions are indicated. Do not scale Drawings to determine locations and routing of conduits accuracy under the contract. These plans & the specifications in connection therewith have been Testing of fire detection system shall be as required by the State Fire Marshal and local authorities having jurisdiction. Installer is responsible for identifying required testing, prepared for a specific site. Any and all responsibility for their use in whole or in part on any other and outlet boxes. Location of outlet boxes and equipment shall conform to architectural features of the building and other Work already in place, and must be ascertained in site is hereby disclaimed by Flewelling & Moody. coordinating, scheduling, and conducting tests before Substantial Completion. Tests shall include the following: the field before the start of Work. Operation of signal-initiating devices (smoke detectors, heat detectors, pull stations etc.). J. Drawings generally indicate Work to be provided, but do not indicate all bends, transitions or special fittings required to clear beams, girders or other Work already in place. Investigate conditions where conduits are to be installed, and furnish and install required fittings, (4) 24'x40' MODULAR CLASSROOM 2. Operation of indicating devices (alarm horns, alarm bells and alarm strobes). **BUILDINGS AT** K. Provide P-touch label of approximately one inch wide with red lettering for each initiating device that is hidden from view. Tags shall indicate the name and type of device: 3. Operation of system features under normal operation. CHANNEL ISLANDS HIGH SCHOOL Heat Detector, or Duct Smoke Detector. Tags shall be permanently attached on access panel or t-bar grid which is used to access a hidden device. 4. Operation of system supervisory features. 1400 RAIDERS WAY Provide smoke and heat detectors in elevator hoist-ways if a fire sprinkler head is located at the top of the elevator hoist-way. Provisions shall be made for access to the OXNARD, CA 93033 5. Operation of system features on standby power, with primary power turned off. detector without entering the elevator hoist-way. Access shall be provided through an approved enclosure with self-locking fire rated door. The detectors shall be so placed as to allow service to them without the service personnel having to reach into the hoist-way in the way of travel of the elevator car. Access to elevator hoist-ways and machine 6. Before energizing the cables and wires, check for correct connections and test for short circuits, ground faults, continuity, and insulation. OXNARD UNION HIGH SCHOOL DISTRICT rooms (including escalators) must be supervised by the Owner's licensed elevator or escalator maintenance contractor. OAR is responsible for coordinating access in accordance with Contractor's schedule. Contractor shall provide a minimum of 48 hours notice. 7. Close sprinkler system flow valves and verify proper supervisory alarm at the FACP. M. Provide adjacent to each annunciator a neatly typewritten copy of the Fire Alarm Operating Instructions. The instructions shall reflect the installed and programmed features 8. Verify activation of flow switches. of the system. Instructions that include information on non-installed or programmed features will not be acceptable. The instructions shall be placed into a suitably sized dark Open initiating device circuits and verify that trouble signal actuates. colored wood or metal frame with a glass document face cover. The frame shall be attached to the wall with a minimum of two screws into the wall material with appropriate 10. Open signaling line circuits and verify that trouble signal actuates. **SPECIFICATIONS** N. Provide adjacent to each annunciator a neatly drawn site map showing rooms with designations and buildings with names as programmed into the system. This map shall be Open and short notification appliance circuits and verify that trouble signal actuates. sized to allow (normal vision) reading of the designations, names etc. A map so reduced in size to the point of not being readable will not be acceptable. This map shall include symbols indicating the locations of installed fire sprinkler flow switches, riser shut off valves, post indicating valves and manual pull stations. Provide a symbol list on 12. Open and short (wire only) network communications and verify that trouble signals are received at network annunciators or reporting terminals. the map for the symbols used. The site map shall be placed into a suitably sized dark colored wood or metal frame with a glass document face cover. The frame shall be 13. Ground initiating device circuits and verify response of trouble signals. attached to the wall with a minimum of two screws into the wall material with the appropriate anchors. 14. Ground signaling line circuit and verify response of trouble signals. 3.03 SYSTEM PROGRAMMING 15. Ground notification appliance circuit and verify response of trouble signals A. Programming shall be performed in accordance with District requirements set forth in this section - the local authority having jurisdiction and applicable codes. If a conflict 16. Check alert tone to alarm notification devices. arises or a clarification is required, the contractor through the project's OAR shall contact the Districts Fire Life Systems Testing Group (FLSTG) for clarification SPEC-B. As part of the 50 percent construction completion label devices and locations in the manner indicted in the attached guidelines on a separate copy of the shop drawings. Request a meeting with OAR, Project Inspector, and representative of FLSTG to review, finalize and obtain approval of the proposed device, equipment and location descriptors that will be programmed into the system. The District may at time of substantial completion request minor changes to program descriptors if needed to conform to 12-18-2019

FIRE DETECTION AND ALARM SECTION 28 3100 - FIRE DETECTION AND ALARM (CONTINUED) 17. Check installation, supervision, and operation of intelligent smoke detectors. 6) Have staff RESET fire system. 18. Alarm conditions that the system is required to detect shall be introduced on the system. Verify the proper receipt and the proper processing of the signal at the FACP Activate Smoke Detector with canned smoke to demonstrate address identification: and the correct activation of the control points. 1) Have staff SILENCE system. 19. When the system is equipped with optional features, consult the manufacturer manual to determine proper testing procedures. 2) Show LCD and display LED of ALARM 20. Theatrical lighting house light control override. 3) Have staff RESET fire system. 21. Central and Autonomous PA systems for muting during the sounding of the audible notification appliances and voice evacuation announcements. Remove Smoke Detector to demonstrate SYSTEM TROUBLE. 22. Disabling electronic tone or electromechanical bell class passing signals until system reset. 1) Demonstrate panel or annunciator sounder tone for TROUBLE. C. Upon completion of installation of fire alarm equipment, provide to the OAR a signed, written statement confirming that fire alarm equipment was installed in accordance with 2) Have staff SILENCE system. the Specifications, Shop Drawings, instructions and directions provided by the manufacturer. 3) Show LCD display and LED of TROUBLE. D. Demonstrate in presence of the Project Inspector that circuit and wiring tests are free of shorts and grounds and that installation performs as specified herein and within manufacturer's guidelines. 4) Replace the smoke detector. E. Software Modifications: 5) Have staff RESET fire system. 1. Provide the services of a factory trained and authorized technician to perform system software modification, upgrades or changes. Response time of the technician to the Remove power to demonstrate function during power failure. Project site shall not exceed 24 hours. 1) Have staff SILENCE system. 2. Provide hardware, software, programming tools, and documentation necessary to modify the fire alarm network on the Project site. Modification includes: addition and 2) Show LCD display and LED of TROUBLE. deletion of devices, circuits, zones and changes to system operation and custom label changes for devices or zones. The system structure and software shall place no limit on the type or extent of software modification on-site. Modification of software shall not require power-down of the system or loss of system fire protection while 3) Activate Manual Pull station to demonstrate audible or visual functions in power failure mode. modifications are being provided. 4) Reset manual pull station. F. Complete the inspection and testing form as required by NFPA 72, and submit one copy of the completed form to the Architect and Project Inspector. Reset fire system. FLEWELLING & MOODY G. Fire alarm system shall pass a City of Ventura Fire Department Regulation 4 test administered by Owner personnel prior to issuing certificate of substantial completion. An accurate copy of the red line as-built drawings, a valid copy of the fire alarm points list, a CD with the project background drawings in AutoCAD format, and passwords required 6) If applicable, point out sprinkler riser and shut off valves. architecture planning interiors for the testing process shall be made available to FLSTG personnel prior to the test. These items shall be retained by the FLSTG. 7) Show location of a water flow switch. 1. Defects resulting from the FLSTG tests shall be corrected prior to substantial completion. 8) Show location of a valve tamper switch. 3.06 SERVICE MANUALS 9) Point out valves must always be OPEN or fully counter clock wise. A. Deliver to OAR, three copies of the service manuals. Each manual shall include the following: **HEADQUARTERS OFFICE:** 10) Point out PIV (Post Indicator Valves) if applicable. 815 Colorado Blvd, Suite 200 1. Installation manuals, programming manuals and user manual if applicable for every control panel, control panel power supply, FACP input or output or relay or control 11) Have water flow through the inspectors test valve and point out the ringing water flow bell. Los Angeles, CA 90041 module, auxiliary power supply, UDACT, remote NAC extender power supply, door holder power supplies, installed annunciators, initiating and indicating devices and P 323.543.8300 12) After the horns are silenced by an assistant, show that the water flow bell is ringing continuously indicating water flow. addressable monitor, relay and control modules. Catalog cut sheets are not acceptable. E-Mail: fm-pasadena@flewelling-moody.com 13) Have the assistant turn off the inspectors test valve to show that water flow alarm bell turns off. 2. A printed copy of the system configuration as programmed, including system labeling codes, and passwords. ANTELOPE VALLEY OFFICE: 14) Reset system. 3. An electronic copy on compact disk of the system configuration program 1035 West Lancaster Boulevard Lancaster, California 93534 15) Unlock and turn off a PIV or riser valve to show a supervisory condition. Final test report. P 661.949.0771 E-Mail: fm-lancaster@flewelling-moody.com 16) Turn valve back on, lock the valve open and demonstrate the end of the indication of a supervisory condition. 5. Detailed explanation of the operation of the system. Training documentation. 6. Instructions for routine maintenance. An Employee Owned Corporation a. Insure fire panel is reset and indicates normal and central station monitoring is taken off of the test mode. 7. Detailed wiring diagram for the connection of relays, addressable monitor, and control or relay modules as applied in the interfacing of peripheral systems or equipment to the fire alarm system. Updated shop drawings shall include revisions made in the field via plan changes, RFIs, Field Change Directives, and any other construction Have staff attendees sign off training sheet and provide a copy to the PROJECT INSPECTOR. change documents including interface details with ancillary systems. 8. An electronic copy (CD) of the posted site or fire alarm map in Auto-Cad and pdf formats. PROTECTION 3.09 Provide a CD ROM electronic copy of the updated system As-Built Drawings to the OAR, prepare this copy in the latest version of AutoCAD; along with the electronic A. Protect the Work of this section until Substantial Completion. 3.10 CLEANUP

A. Remove rubbish, debris, and waste materials and legally dispose of off Project site. copy provide a full size bond copy. Include one CD-ROM of the up-dated As-Built Drawings into each of the Service Manuals. CD and folded drawings shall be secured and inserted into the Service Manuals via a three-hole punched protective CD case and protective envelopes for the drawings. 10. Provide codes and passwords for fire alarm system at testing SPARE PARTS **END OF SECTION** A. The following new spare parts shall be furnished in unopened boxes: 1. Five percent spare pull stations including the associated monitor module (minimum one spare pull statio BUDLONG & ASSOCIATES, INC 2. Five percent spare smoke and heat detectors (minimum one spare smoke and heat detector per type Job No.19-244 3. Five percent spare audible devices (minimum one spare audible device per type) 4. Five percent spare strobe devices (minimum one spare strobe device per type). 3.08 SYSTEM USER AND MAINTENANCE PERSONNEL TRAINING Before Substantial Completion, provide one instruction period for the Project site based Owner operators and system users. The instruction period shall be scheduled and coordinated by the OAR. Training materials and required deliverables shall be submitted to the OAR. Prior to beginning the operational demonstration, notify Central monitoring Station that an instructional activity is beginning; inform them that it includes setting and resetting the system in test mode. After the demonstration is completed and the system restored, notify the Central Monitoring Station that the system has been restored and it is back on line for continuous monitoring. C. User Instruction and Training 1. Before substantial completion and with a fully functional fire alarm system installed at the site, the contractor shall provide a minimum of four hours of user training for site based staff. The date and time for this training shall be coordinated by the project OAR. D. Instruction period training for site based staff shall consist of the following: Overview: a. Explain the fire system is "addressable" which means every device-smoke detector, heat detector, sprinkler water flow switch, manual pull station, etc. has a unique address or identity. This makes it possible to positively identify the exact device causing an alarm, trouble or supervisory condition. b. Explain the fire alarm control panel also controls the horns and strobes throughout the campus or building. c. Explain that the fire alarm system is interconnected to various other systems and equipment through out the site such as: 1) Elevators to recall them to the main floor or to an alternate floor and as an option dependent circumstances turn off the power to the elevators. 2) Heating and air conditioning equipment to turn off fans and close dampers to stop the spread of smoke through out a building. 3) The class passing signaling system to disable the bells or tones to not accidentally signal students and staff to return to the buildings. 4) Magnetically held doors to close them to stop the spread of smoke. d. Explain the fire system has a battery backup in case of power failure and that it will continue to function for a minimum of 24 hours after a total power failure. e. Explain that the fire alarm system components and wiring are monitored to report a malfunction, damage or vandalism. When this occurs, a trouble indication will appear on the fire alarm annunciator and FACP and this indication will be transmitted to the central monitoring station. f. Explain that other equipment and systems are monitored for abnormal conditions such as the fire sprinkler water being turned off. When this occurs, a supervisory All dimensions must be checked at the job by the contractor who accepts full responsibility for their condition is created. A supervisory indication will appear on the fire alarm annunciator and FACP and this indication will be transmitted to the central monitoring accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other station. site is hereby disclaimed by Flewelling & Moody. g. Explain that the fire system in addition to notifying the occupants of a possible fire condition also transmits an alarm indication to the central monitoring station that will in turn notify and dispatch the local fire department to your site. (4) 24'x40' MODULAR CLASSROOM **BUILDINGS AT** CHANNEL ISLANDS HIGH SCHOOL a. Hand out the SYSTEM OPERATION instructions to attendees. b. Point out the Fire Alarm Control Panel and have them observe the normal LED status (one green LED only should be on): 1400 RAIDERS WAY OXNARD, CA 93033 1) GREEN = Normal. 2) YELLOW = Trouble. OXNARD UNION HIGH SCHOOL DISTRICT 3) RED = ALARM. c. Have the attendees observe the LCD display that should be indicating a SYSTEM NORMAL message. d. Point out the Fire Alarm System Annunciator and have attendees observe the LCD display that should be indicating a SYSTEM NORMAL message. 3. Operation and Demonstration: SPECIFICATIONS a. After putting the system or having someone put the system central station monitoring into the test mode demonstrate the following: b. Activate a Manual Pull Station to demonstrate ALARM. 1) Demonstrate audible and visual notification appliances and if installed the voice evacuation signal announcement. 2) Demonstrate panel or annunciator sounder tone for ALARM. 3) Have staff SILENCE system. 4) Show LCD display and LED of alarm. 5) Demonstrate and have staff reset the manual pull station. SPEC-8 12-18-2019

CIVIL IMPROVEMENTS FOR 4 MODULAR CLASSROOMS CHANNEL ISLANDS HIGH SCHOOL

IN THE CITY OF OXNARD, CA V//////// SHEET C3.01

VICINITY MAP

CONTROL POINT TABLE

SURVEY NOTES

ELEVATIONS

4. UTILITIES

2. BASIS OF BEARINGS AND COORDINATES

CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

BENCHMARKS WERE MEASURED IN THIS SURVEY.

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=10', WITH A 1 FOOT CONTOUR INTERVAL FROM DATA COLLECTED IN A FIELD SURVEY PERFORMED USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN SEPTEMBER 2019, AT

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) AND/OR CONTINUOUS OPERATING REFERENCE STATIONS (CORS) CSCI & VNCO BEING NORTH 56°18'26" WEST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE

THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL

DATUM OF 1988 (NAVD88), PER GPS TIES & GEOID MODELING (GEOID12B) TO CGPS STATION CSCI. ELLIPSOID HEIGHTS ARE CONSTRAINED PER CSRC. NO COUNTY

SURFACE UTILITY FEATURES SHOWN HEREON WERE LOCATED AS A PART OF THE FIELD SURVEY PERFORMED BY ECG BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1886588.62	6210528.82	35.10	SET MAG NAIL
2	1886744.89	6210546.66	35.05	SET SCRIBED X
3	1886735.57	6210285.11	34.68	SET SCRIBED X

LEGEND

LEGEND	
	PROPOSED MAJOR CONTOURS
35.25	PROPOSED MINOR CONTOURS
<i>→ → →</i>	PROPOSED FLOWLINE
GB	PROPOSED GRADE BREAK
	PROPOSED FENCE
	EXISTING RIGHT OF WAY/PROPERTY LI
	EXISTING FENCE
36.00	EXISTING INTERMEDIATE CONTOURS
35.25	EXISTING INDEX CONTOURS
E	EXISTING ELECTRICAL LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
SD	EXISTING STORM DRAIN LINE
FW	EXISTING FIREWATER LINE
S	EXISTING SEWER LINE
IRR	EXISTING IRRIGATION LINE
120.00	PROPOSED ELEVATION
FS	FROPOSED ELEVATION
(120.00) EG	EXISTING ELEVATION
1.5%	PROPOSED GRADE
	THO OSED GRADE

PROPOSED WALKWAY CONCRETE PAVING

	ABBREVIATIONS						
ABBR	ABBREVIATION	FG	FINISH GRADE	R.O.W.	RIGHT OF WAY		
A.C.	ASPHALT CONCRETE	FL	FLOWLINE	RPD	RESIDENTIAL PLANNEI		
A.C.P.	ASBESTOS CONCRETE	FS	FINISHED SURFACE		DEVELOPMENT		
	PIPE	FT/S	FEET PER SECOND	RT	RIGHT		
AΡ	ANGLE POINT	FUT	FUTURE	RW	RECLAIMED WATER		
ARCH.	ARCHITECT	GB	GRADE BREAK	R/W	RIGHT OF WAY		
ASSOC.	ASSOCIATION	GF	GARAGE FLOOR	SCE	SOUTHERN CALIFORNI		
AVE	AVENUE	GM	GAS METER		EDISON		
BC	BEGIN CURVE	G.P.	GRADING PERMIT	SCO	SEWER CLEAN OUT		
BCR	BEGIN CURB RETURN	GV	GAS VALVE	SD	STORM DRAIN		
BDY.	BOUNDARY	HGL	HYDRAULIC GRADE LINE	SDMH	STORM DRAIN MANHO		
BEG	BEGIN	HOA	HOME OWNERS	SDR	STANDARD DIMENSIO		
BFP	BACKFLOW PREVENTER		ASSOCIATION		RATIO		
BLDG	BUILDING	HORZ.	HORIZONTAL	S.E.	SAND EQUIVALENT		
BOT	BOTTOM OF PIPE	HP	HIGH POINT	SF	SQUARE FOOT/FEET		
BS	BOTTOM OF STEP	HPS	HIGH PRESSURE SODIUM	SHT	SHEET		
BVC	BEGIN VERTICAL CURVE	HW	HEADWALL	SHTS	SHEETS		
BW	BACK OF WALK OR	ICP	INTERLOCKING CONCRETE	S.L.	SEWER LATERAL		
	BOTTOM OF WALL		PAVERS	SLDS	STANDARD LAND		
CB	CATCH BASIN	ICV	IRRIGATION CONTROL		DEVELOPMENT		
CBC	CALIFORNIA BUILDING		VALVE		SPECIFICATIONS		
	CODE	INT.	INTERSECTION	S'LY	SOUTHERLY		
C-C	CENTER TO CENTER	INV	INVERT	SMH	SEWER MANHOLE		
CF	CURB FACE	IRR	IRRIGATION	S.N.S.	STREET NAME SIGN		
CFS	CUBIC FEET PER	LAT	LATERAL	SPPWC	STANDARD PLANS FOR		
	SECOND	LDM	LAND DEVELOPMENT		PUBLIC WORKS		
CL	CENTERLINE OR CLASS		MANUAL		CONSTRUCTION		
CLF	CHAIN LINK FENCE	LDSP	LANDSCAPE	SS	SANITARY SEWER		
CLR	CLEAR	LF	LINEAR FEET	SSPWC	STANDARD		
CMB	CRUSHED	LN	LANE		SPECIFICATIONS FOR		
	MISCELLANEOUS BASE	LP	LOW POINT		PUBLIC WORKS		
CMP	CORRUGATED METAL	LT	LEFT		CONSTRUCTION		
	PIPE	MAX	MAXIMUM	ST	STREET		
CMU	CONCRETE MASONRY	MH	MANHOLE	STD	STANDARD		
	UNIT	MIN	MINIMUM	SW	SIDEWALK		
CO	CLEANOUT	MOC	MIDDLE OF CURVE	SWCT	SAWCUT		
CONC	CONCRETE	N'LY	NORTHERLY	TC	TOP OF CURB		
CONT	CONTROL	NO.	NUMBER	TEL	TELEPHONE		
CPS	CONNECTOR PIPE	N.T.S.	NOT TO SCALE	TG	TOP OF GRATE		
	SCREEN	O.C.	ON CURB OR ON CURVE	TF	TOP OF FOOTING		
CT	COURT		OR ON CENTER	TI	TRAFFIC INDEX		
DBL	DOUBLE	OHW	OVERHEAD WIRE	TMH	TELEPHONE MANHOLE		
DES	DESIGN	PB	PULL BOX	TOE	TOE OF SLOPE		
DG	DECOMPOSED GRANITE	P.C.C.	PORTLAND CEMENT	TOP	TOP OF SLOPE OR PIP		
DI	DROP INLET		CONCRETE OR POINT OF	TPL	TRIPLE		
D.I.	DUCTILE IRON		COMPOUND CURVE	TR	TRACT		
DIA	DIAMETER	PI	POINT OF INTERSECTION	TS	TOP OF STEP		
DR	DRIVE	P/L	PROPERTY LINE	TW	TOP OF WALL		
DWG	DRAWING	PMB	PROCESSED MISC. BASE	TYP	TYPICAL		
EASE	EASEMENT	POC	POINT OF CONNECTION	UG	UNDERGROUND		
EBAA	EBAA IRON, INC.	PRC	POINT OF REVERSE	VAR	VARIES		
EC	END CURVE		CURVE	V.C.	VERTICAL CURVE		
ECR	END CURB RETURN	PT	POINT	VERT.	VERTICAL		
EG	EXISTING GROUND	PTDF	PRESSURE TREATED	VLT	VAULT		
ELEC	ELECTRIC		DOUGLAS FIR	VLV	VALVE		
ELEV	ELEVATION	PUB	PUBLIC	W	WATER		
E'LY	EASTERLY	PVC	POLYVINYL CHLORIDE	W'LY	WESTERLY		
ELLIP	ELLIPTICAL	PVMT	PAVEMENT	WM	WATER METER		
EP	EDGE OF PAVEMENT	PVT	PRIVATE	WSEL	WATER SURFACE		
ESMT	EASEMENT	RCB	REINFORCED CONCRETE		ELEVATION		
EVC	END VERTICAL CURVE	B 65	BOX	WV	WATER VALVE		
EQ	EQUIVALENT	RCP	REINFORCED CONCRETE	W.W.M.	WELDED WIRE MESH		
FED.	FEDERAL		PIPE	YR	YEAR		
FF	FINISHED FLOOR	RD	ROAD				
		RET	RETAINING				
		DM/CM					

RWGV RESILIENT WEDGE GATE



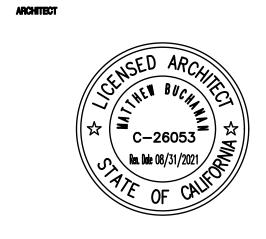


architecture planning interiors

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An Employee Owned Corporation







All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Fiewelling & Mood

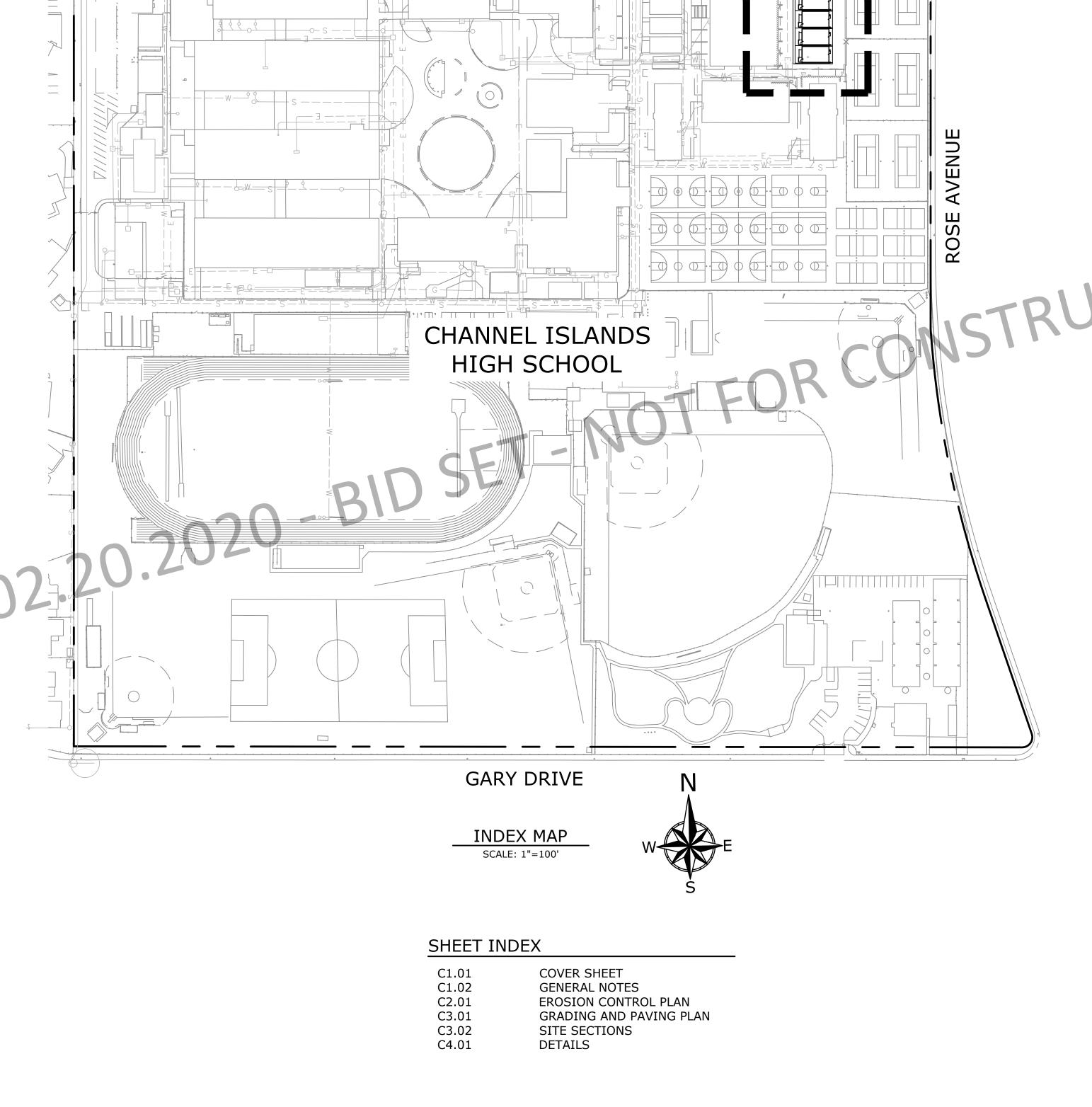
(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL 1400 RAIDERS WAY OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

COVER

2835.0200

10-28-2019



THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES. CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING

HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED

UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE

JOSIAH D. JÉNISON

ENGINEER'S NOTICE TO CONTRACTOR

R.C.E. DATE

N:\projects\0398\engineering\acad\improvements\0398_01-02_ttlsht_notes.dwg; Last Saved By: jjenison - Oct 25, 2019 - 8:28am Last Printed By: JJENISON - Oct 25, 2019, 9:00am;

- 1. CONTRACTOR SHALL REVIEW GRADING AND DRAINAGE AND UTILITY PLANS; AND PROTECT ALL EXISTING FACILITIES TO REMAIN. ADJUST ALL UTILITY SURFACE FEATURES TO FINAL GRADES.
- CONTRACTOR SHALL REMOVE ALL TREES AND EXISTING ROOTS SYSTEMS WITHIN THE PROJECT AREA TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 3. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING BUILDINGS AND HYDRANTS THROUGHOUT

CONSTRUCTION AND COORDINATE ANY SHUT DOWNS WITH THE OWNER'S REPRESENTATIVE.

- 4. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY FOR PROJECT DEMOLITION AND CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING FACILITIES AND FEATURES WITHIN THE PROJECT LIMIT WHICH ARE REQUIRED FOR THE PROJECT CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES THAT ARE TO REMAIN IN PLACE AND PROMPTLY REPAIR ANY DAMAGES CAUSED BY DEMOLITION AND CONSTRUCTION AT ITS OWN EXPENSE. ALL EXISTING UTILITIES WITHIN THE BUILDING FOOTPRINT SHALL BE CAPPED AT THE NEAREST TEE, VALVE, OR MANHOLE. CONTRACTOR SHALL REMOVE ALL DEMOLITION/WASTE MATERIALS FROM THE PROJECT SITE AND LEGALLY DISPOSE OF THEM AT A DUMP SITE OFF-CAMPUS.
- REVIEW LANDSCAPE PLANS FOR IRRIGATION DESIGN TO REMOVE EXISTING IRRIGATION SYSTEM IN CONFLICT WITH CONSTRUCTION, AND CONSTRUCT NEW FACILITIES.
- CONTRACTOR SHALL CONSTRUCT EROSION CONTROL DEVICES PER PROJECT EROSION CONTROL PLANS AND AS REOUIRED FOR SITE CONDITIONS. NO SILT AND DEBRIS SHALL BE ALLOWED TO DEPART FROM THE CONSTRUCTION LIMITS OR ENTER THE STORM DRAIN SYSTEM.
- CONTRACTOR SHALL PREPARE AND PROVIDE ALL CONSTRUCTION STAKING FOR THE CONSTRUCTION OF THIS
- CONTRACTOR SHALL USE PROVIDED COORDINATES TO INITIALLY LOCATE THE BUILDINGS AND CONSTRUCT THE BUILDINGS PER THE ARCHITECTURAL PLANS. THE AUTOCAD DRAWING FILES MAY BE PROVIDED TO THE CONTRACTOR FOR STAKING PURPOSES DURING CONSTRUCTION.
- 10. CONTRACTOR SHALL PROVIDE A SUITABLE STABILIZED CONSTRUCTION ENTRANCE/EXIT AT ALL ACCESS POINTS FROM THE JOB SITE TO PREVENT TRACKING OF MUD ONTO CAMPUS AND PUBLIC ROADS. ADDITIONALLY PROVIDE SWEEPER SERVICE ON THE FREQUENCY NECESSARY TO MITIGATE UNDESIRABLE CONDITIONS, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- 11. CONTRACTOR SHALL SUBMIT A DRAWING OF THE PROPOSED STAGING AREA AND CONSTRUCTION FENCING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. CONSTRUCTION STAGING SHALL NOT BLOCK FIRE ENGINE ACCESS OR EXISTING FIRE HYDRANTS.

GENERAL DEMOLITION NOTES

- 1. DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES, UTILITIES, AND ALL OTHER MATERIAL FROM THE PROJECT SITE.
- 2. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- 3. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
- 4. EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE IN-KIND ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN.
- 6. ALL EXISTING LANDSCAPE INSIDE THE LIMITS OF WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED ON
- 7. ALL SURFACE FEATURES FOR EXISTING UNDERGROUND UTILITIES SHALL REMAIN AND BE ADJUSTED TO MATCH
- NEW FINISH GRADE UNLESS OTHERWISE NOTED. 8. SAWCUT EXISTING PAVEMENT FULL DEPTH TO A CLEAN STRAIGHT EDGE.
- 9. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES, SEPTIC TANKS (AS NOTED) AND SIMILAR MATERIALS SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE ENGINEER.
- 10. CONTRACTOR TO COORDINATE WITH DISTRICT STAFF FOR LOCATION OF EXISTING COMMUNICATION AND
- 11. EXCAVATIONS AND DEPRESSIONS RESULTING FROM FOUNDATION AND BELOW-GRADE STRUCTURE REMOVAL SHALL NOT BE FILLED IN PRIOR TO OBSERVATION BY THE GEOTECHNICAL REPRESENTATIVE.
- 12. CONTRACTOR SHALL PROVIDE LATERAL SUPPORT OF EXCAVATIONS, AS NEEDED, TO PREVENT LATERAL AND VERTICAL MOVEMENT OF ADJACENT EXISTING FACILITIES.

GRADING NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS (GREEN BOOK) LATEST EDITION AND AMENDMENTS WHENEVER SPECIAL REQUIREMENTS CONFLICT ON ANY SUBJECT MATTER. THE ENGINEER OF RECORD AND/OR HIS REPRESENTATIVE WILL DETERMINE WHICH SPECIAL REQUIREMENT AND/OR CODE WILL GOVERN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND DISPOSAL OF THE PROPOSED WORK AREA.
- 3. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS IN ACCORDANCE WITH CITY, COUNTY, AND STATE ORDINANCES AND STATUTES.
- 4. NO FILL SHALL BE PLACED ON THE EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS,
- DEBRIS, TOPSOIL, DELETERIOUS MATERIAL AND SCARFIED PER THE PROJECT SPECIFICATIONS. 5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
- FILLS SHALL BE COMPACTED THROUGHOUT TO THE MAXIMUM DENSITY AS DETERMINED THE GEOTECHNICAL
- 7. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND/OR HIS REPRESENTATIVE PRIOR TO PLACING OF FILL.
- 8. FILL SLOPES SHALL BE KEYED AND BENCHED WITH APPROVED MATERIAL AND PER THE RECOMMENDATIONS

ALL EXISTING FILLS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OR HIS REPRESENTATIVE

- BEFORE ANY ADDITIONAL FILLS ARE ADDED.
- ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED AND APPROVED BY THE GRADING INSPECTOR AND GEOTECHNICAL ENGINEER, UNLESS OTHERWISE NOTED ON THE PLANS.
- 11. SLOPES EXCEEDING FIVE FEET IN HEIGHT MUST BE PLANTED AND AN APPROVED IRRIGATION SYSTEM SHALL
- 12. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PER THE GRADING AND EXCAVATION CODE.
- 13. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS. THE ENGINEERING GEOLOGIST SHALL RECOMMEND NECESSARY TREATMENT TO THE CONSTRUCTION MANAGER FOR APPROVAL.

GRADING NOTES (CONTINUED)

- 14. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAGE, OR DRIVE RING SHALL BE NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
- 15. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- 16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF AND PROTECT ALL EXISTING UTILITIES AND TO ENSURE SERVICE IS NOT DISRUPTED TO EXISTING FACILITIES.
- 17. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT. IN ALL CASES. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO CONSTRUCTING NATURAL OR EXISTING DRAINAGE PATTERNS.
- 18. WHENEVER THERE IS AN EXISTING CATCH BASIN ALONG OR ADJACENT TO THE CONSTRUCTION SITE FRONTAGE, AN ON-SITE STORM DRAIN OR SWALE SHALL BE CONSTRUCTED TO CONVEY WATER DIRECTLY TO THE BASIN. EXCEPTIONS SHALL REQUIRE APPROVAL BY THE CIVIL ENGINEER
- 19. ALL PLANTERS ADJACENT TO THE FOUNDATIONS SHALL BE SEALED ALONG SIDE OF THE FOUNDATION FOOTING AND EXTENDED UNDER THE PLANTER AREA TO A MINIMUM OF 12 INCHES TO PREVENT MOISTURE FROM REACHING THE FOUNDATION SUBGRADE SOLES.
- 20. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE LOCAL AGENCY HAVING JURISDICTION
- 21. ANY DIRT, ROCK OR CONSTRUCTION MATERIAL THAT MAY BE TRACKED OR DROPPED WITHIN THE PUBLIC RIGHT-OF-WAY DURING THE TRANSPORTATION OF SAID MATERIAL OR EQUIPMENT ASSOCIATED WITH THE PROJECT SHALL BE CLEANED OR REMOVED DAILY AND AS DEEMED NECESSARY BY THE CONSTRUCTION MANAGER.
- 22. DIRT ACCESS RAMPS OVER CURB AND GUTTER TO CONSTRUCTION SITE ARE NOT ALLOWED. WHEN NECESSARY FOR ENTRANCE TO SUCH CONSTRUCTION SITES, ASPHALT RAMPS WITH A MINIMUM 3 DIAMETER PIPE WILL BE CONSTRUCTED TO CONVEY GUTTER DRAINAGE. ALL BASE, GRAVEL, SOIL OR OTHER MATERIAL CARRIED INTO THE ROADWAY BY CONTRACTORS PERSONNEL OR EQUIPMENT WILL BE CLEANED AS NECESSARY AND NO LESS THAN ONCE A DAY. TRUCKS HAULING BASE, GRAVEL, FILL OR EXPORT MATERIALS WILL BE TARPED AS NECESSARY TO PREVENT MATERIAL FROM SPILLING INTO THE ROADWAY.
- 23. PRIOR TO ANY CONSTRUCTION WHICH INVOLVES HAZARDOUS CONDITIONS, THE CONTRACTOR SHALL FIRST OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
- 24. PROPOSED REVISIONS TO THE GRADING PLAN SHALL BE DRAWN IN RED PENCIL ON BOND COPIES OF THE APPROVED PLAN. THESE REDLINES ARE THEN TO BE SUBMITTED TO THE OWNERS REPRESENTATIVES FOR REVIEW AND APPROVAL. ONLY AFTER THE BOND COPIES APPROVAL IS GIVEN SHOULD THE ORIGINALS BE AS-BUILT BY THE ENGINEER/ARCHITECT.
- 25. RULE 403, AIR QUALITY CONTROL MANAGEMENT DISTRICT, MUST BE IMPLEMENTED DURING CONSTRUCTION. a. A PERSON SHALL NOT CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY TRANSPORT, HANDLING, CONSTRUCTION OR STORAGE ACTIVITY SO THAT THE PRESENCE OF SUCH DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE. (DOES NOT APPLY TO EMISSION EMANATING FROM UNPAVED ROADWAYS OPEN TO PUBLIC TRAVEL OR FARM ROADS. THIS
- EXCLUSION SHALL NOT APPLY TO INDUSTRIAL OR COMMERCIAL FACILITIES). b. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO MINIMIZE FUGITIVE DUST EMISSIONS FROM WRECKING EXCAVATION GRADING, CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS. c. A PERSON SHALL NOT CAUSE OR ALLOW PARTICULATE WATER TO EXCEED 100 MICROGRAMS PER CUBIC METER WHEN DETERMINED AS THE DIFFERENCE BETWEEN UPWIND AND DOWN WIND SAMPLES COLLECTED
- ON HIGH VOLUME SAMPLERS AT THE PROPERTY LINE FOR A MINIMUM OF FIVE HOURS. d. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT VISIBLE PARTICULATE WATER FROM BEING DEPOSITED UPON PUBLIC ROADWAYS. PRECAUTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO, THE REMOVAL OF PARTICULATE MATTER FROM EQUIPMENT PRIOR TO MOVEMENT ON PAVED STREETS ONTO WHICH SUCH MATERIAL HAS BEEN DEPOSITED
- e. SUBSECTIONS (A) AND (B) SHALL NOT BE APPLICABLE WHEN THE WIND SPEED INSTANTANEOUSLY EXCEEDS 40 KILOMETERS (25 MILES) PER HOUR, OR WHEN THE AVERAGE WIND SPEED IS GREATER THAN 24 KILOMETERS (15 MILES) PER HOUR. THE AVERAGE WIND SPEED DERMINATIONS SHALL BE ON A 15 MINUTE AVERAGE AT THE NEAREST OFFICIAL AIR-MONITORING STATION OR BY WIND INSTRUMENT LOCATED AT THE SITE BEING CHECKED.
- 26. CONTRACTORS SHALL USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES, WHERE FEASIBLE.

FEASIBLE, DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.

27. CONTRACTORS SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.

AQMD RULES 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS AS

- 28. CONTRACTORS SHALL USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY
- 29. CONSTRUCTION PARKING SHALL BE ONSITE. TRAFFIC CONTROL AND ACCESS SHALL BE IN ACCORDANCE WITH COUNTY CONSTRUCTION REQUIREMENTS
- 30. THE SPEED OF TRUCKS ONSITE SHALL BE LIMITED TO 15 MPH.
- 31. TRUCKS AND LARGE CONSTRUCTION VEHICLES WILL OBTAIN APPROVED TRUCK ROUTES FROM THE AGENCIES HAVING JURISDICTION OVER PROPOSED ROUTES.
- 32. THE CONTRACTOR SHALL CONTROL DUST IN AREAS USED FOR OFF-ROAD PARKING MATERIALS LAYDOWN OR THOSE AWAITING FUTURE CONSTRUCTION. FREQUENTLY ACCESSED AREAS SHALL BE PAVED AS EARLY AS POSSIBLE TO MINIMIZE DIRT TRACKOUT TO THE PUBLIC RIGHT OF WAY.
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:
- a. CESSATION OF ACTIVITIES DURING A STAGE-2 SMOG EPISODE. CALL 1-800-242-4022 FOR THE DAILY b. TRUCK ROUTES AND SCHEDULES FOR THE RECEIPT OF MATERIALS SHALL BE COORDINATED WITH THE
- MANAGER OF BUILDING AND SAFETY. c. WHERE FEASIBLE, ON-ROAD VEHICLES AND OFF-ROAD EQUIPMENT SHALL BE TURNED OFF AND SUBSEQUENTLY RESTARTED IF THE ANTICIPATED DURATION OF IDLING IS EXPECTED TO EXCEED FIVE (5)
- 34. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING HIGH WIND DUST CONTROL WHEN WIND GUSTS
- a. TERMINATION/MODIFICATION OF OPERATION OF SCRAPERS, GRADERS OR DOZERS ON UNPAVED SURFACES UNTIL WINDS SUBSIDE. b. APPLICATION OF WATER AS NEEDED TO ANY UNPAVED SURFACE WITH VEHICLE OR EQUIPMENT
- **OPERATIONS** c. APPLICATION OF WATER OR OTHER DUST CONTROL MATERIAL TO ANY PREVIOUSLY GRADED SURFACE IF DUST EMANATION IS VISIBLE FROM SUCH A SURFACE. 35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EQUIPMENT TO PREVENT VISIBLE SOOT FROM
- REDUCING LIGHT TRANSMISSION THROUGH THE EXHAUST STACK BY MORE THAN 20 PERCENT FOR MORE THAN THREE MINUTES PER HOUR AND USE LOW-SULFER FUEL AS REQUIRED BY SCAOMD REGULATIONS. 36. TRUCKS USED IN HAULING DIRT TO OR FROM THE SITE ON PUBLIC ROADS WILL BE COVERED OR WILL

MAINTAIN A SIX INCH DIFFERENTIAL BETWEEN THE MAXIMUM HEIGHT OF ANY HAULED MATERIAL AND THE

TOP OF THE TRAILER. HAUL TRUCK DRIVERS WILL LOAD PRIOR TO LEAVING THE SITE TO PREVENT SOIL LOSS 37. PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, EXISTING SURVEY MONUMENTS SHALL BE NOTED AND DOCUMENTED BEFORE CONSTRUCTION. IF MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL PAY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER TO

EXISTING UTILITY NOTES

- 1. THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY
- 2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES, POINT OF CONNECTIONS, AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE.
- 3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALL UTILITIES MAY NOT BE SHOWN.
- IDENTIFIED HEREON. 5. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS SOURCES. THE SUBSURFACE INFORMATION, INCLUDING LOCATION, SIZES, AND CAPACITIES IS AN ESTIMATION BASED ON AVAILABLE DATA AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. ECG DOES NOT WARRANT THE ACCURACY OF COMPLETENESS OF SAID RECORD INFORMATION.

4.SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT

- 6. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE RECORDS PROVIDED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.
- 7. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO BUILDINGS OR OTHER STRUCTURES INTENDED TO REMAIN IN OPERATIONAL SERVICE DURING THE COURSE OF CONSTRUCTION.

STORMWATER POLLUTION PLAN NOTES

- 1. IN CASE OF EMERGENCY CALL: TO BE DETERMINED
- 2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS
- 3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER
- 4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY
- 5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND
- 6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
- 7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
- 8. DESILTING BASIN MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED. AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN
- AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. 9. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING
- 10. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON STORM WATER FROM THE PROJECT
- 11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED
- FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- 12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- 13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND AREA NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- 14. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- 15. CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES BMPs ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL. (COPIES OF THE SELF INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST).
- 16. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OR RAINWATER AND DISPERSAL BY WIND.
- 17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- 18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- 19. THE FOLLOWING BMPs FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" -LATEST EDITION, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE.

STORMWATER POLLUTION PLAN NOTES (CONTINUED)

EROSION CONTROL:

- EC-1 SCHEDULING PRESERVATION OF EXISTING VEGETATION EC-2
- EC-3 HYDRAULIC MULCH EC-4 HYDROSEEDING
- EC-5 SOIL BINDERS EC-6 STRAW MULCH
- EC-7 GEOTEXTILES & MATS
- EC-8 WOOD MULCHING
- EC-9 EARTH DIKES AND DRAINAGE SWALES
- EC-10 VELOCITY DISSIPATION DEVICES
- EC-11 SLOPE DRAINS EC-12 STREAMBANK STABILIZATION
- EC-13 RESERVED EC-14 COMPOST BLANKETS
- EC-15 SOIL PREPARATION/ROUGHENING EC-16 NON-VEGETATIVE STABILIZATION
- TEMPORARY SEDIMENT CONTROL:
- SE-1 SILT FENCE SE-2 SEDIMENT BASIN
- SE-3 SEDIMENT TRAP SE-4 CHECK DAM
- FIBER ROLLS SE-5 GRAVEL BAG BERM SE-6
- SE-7 STREET SWEEPING AND VACUUMING SE-8 SANDBAG BARRIER SE-9 STRAW BALE BARRIER
- SE-10 STORM DRAIN INLET PROTECTION
- SE-11 ACTIVE TREATMENT SYSTEMS SE-12 TEMPORARY SILT DIKE SE-13 COMPOST SOCKS AND BERMS

EQUIPMENT TRACKING CONTROL:

SE-14 BIOFILTER BAGS

TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT

TC-2 STABILIZED CONSTRUCTION ROADWAY TC-3 ENTRANCE/OUTLET TIRE WASH

- WIND EROSION CONTROL
- WE-1 WIND EROSION CONTROL

NON-STORMWATER MANAGEMENT

- NS-1 WATER CONSERVATION PRACTICES NS-2 DEWATERING OPERATIONS
- NS-3 PAVING AND GRINDING OPERATIONS NS-4 TEMPORARY STREAM CROSSING
- NS-5 CLEAR WATER DIVERSION NS-6 ILLICIT CONNECTION/DISCHARGE NS-7 POTABLE WATER/IRRIGATION
- NS-8 VEHICLE AND EQUIPMENT CLEANING NS-9 VEHICLE AND EQUIPMENT FUELING
- NS-10 VEHICLE AND EQUIPMENT MAINTENANCE NS-11 PILE DRIVING OPERATIONS
- NS-12 CONCRETE CURING
- NS-13 CONCRETE FINISHING NS-14 MATERIAL OVER WATER NS-15 DEMOLITION ADJACENT TO WATER
- NS-16 TEMPORARY BATCH PLANTS
- WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL: WM-1 MATERIAL DELIVERY AND STORAGE
- WM-3 STOCKPILE MANAGEMENT WM-4 SPILL PREVENTION AND CONTROL

WM-2 MATERIAL USE

- WM-5 SOLID WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT WM-7 CONTAMINATED SOIL MANAGEMENT
- WM-8 CONCRETE WASTE MANAGEMENT WM-9 SANITARY/SEPTIC WASTE MANAGEMENT

WM-10 LIQUID WASTE MANAGEMENT

SITE INSPECTIONS ARE REQUIRED BEFORE AND AFTER STORMS TO ENSURE THAT ALL BMP'S ARE FUNCTIONAL AND TO DETERMINE MAINTENANCE.

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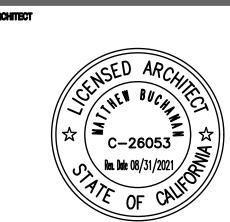
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(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL

OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

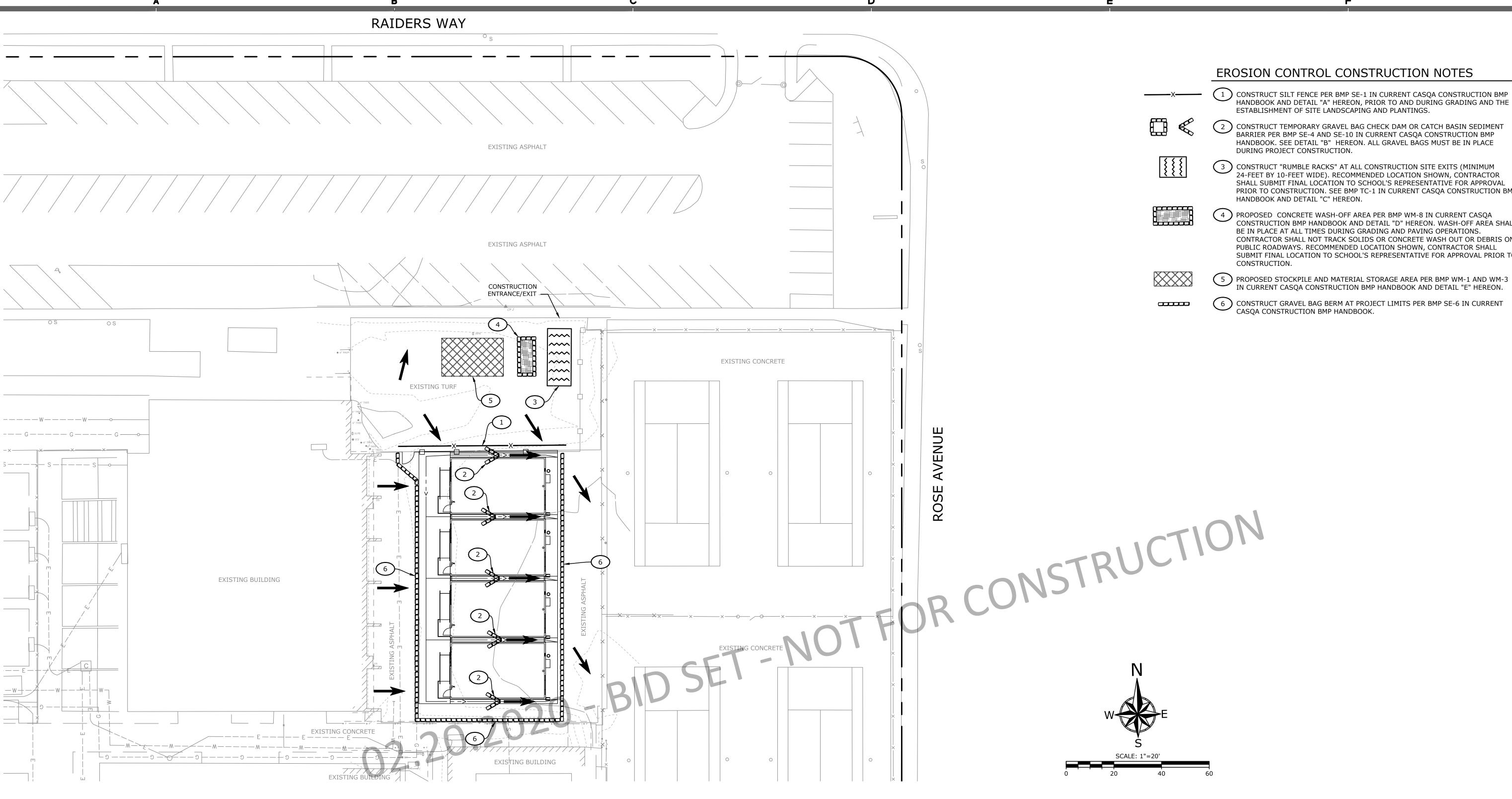
GENERAL NOTES

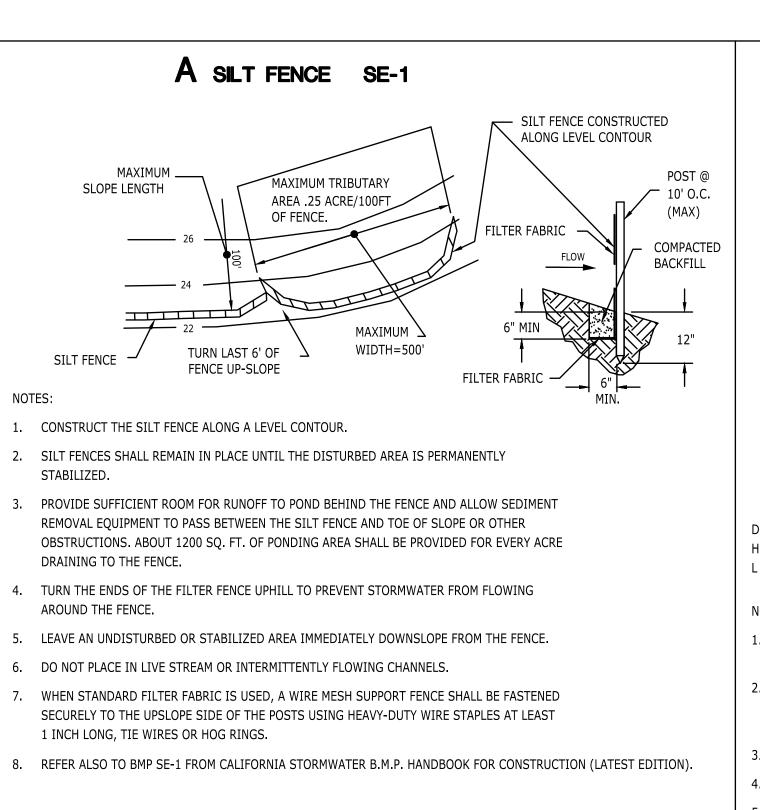


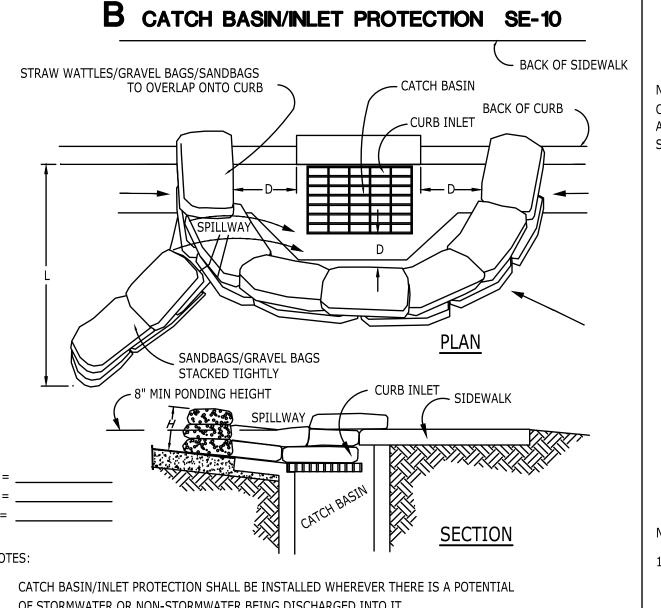
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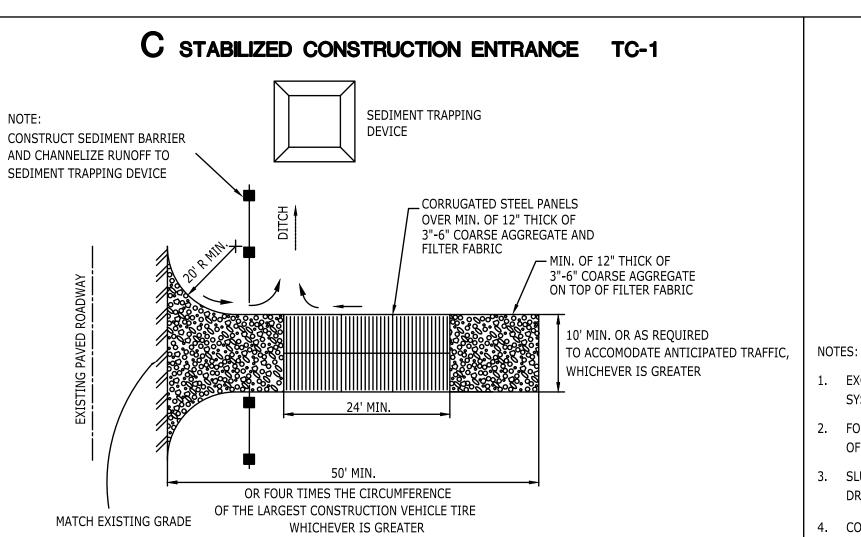




- OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
- INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS; EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED SURFACES.

MODIFY INLET PROTECTION AS NEEDED TO AVOID CREATING TRAFFIC HAZARDS.

- 4. INCLUDE INLET PROTECTION MEASURES AT HILLSIDE V-DITCHES AND MISC. DRAINAGE SWALES.
- INLET PROTECTION SHALL BE INSPECTED AND ACCUMULATED SEDIMENTS REMOVED. SEDIMENT SHALL BE DISPOSED OF PROPERLY AND IN A MANNER THAT ASSURES THAT THE SEDIMENT DOES NOT ENTER THE STORM DRAIN SYSTEM.
- DAMAGED BAGS SHALL BE REPLACED IMMEDIATELY.
- ADDITIONAL SANDBAG SEDIMENT TRAPS SHALL BE PLACED AT INTERVALS AS INDICATED ON SITE PLAN.



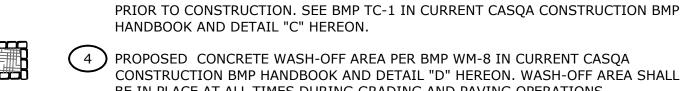
SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.

- STABILIZED CONSTRUCTION ENTRANCE SHALL BE: A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
- B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 3"-6" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATLY PREVENT ANY TRACKING ONTO PAVED SURFACES.
- ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
- 4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE SE-7

- NOTES: 1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES
- PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM

BARRIER PER BMP SE-4 AND SE-10 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK. SEE DETAIL "B" HEREON. ALL GRAVEL BAGS MUST BE IN PLACE DURING PROJECT CONSTRUCTION. 3 CONSTRUCT "RUMBLE RACKS" AT ALL CONSTRUCTION SITE EXITS (MINIMUM 24-FEET BY 10-FEET WIDE). RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL



BE IN PLACE AT ALL TIMES DURING GRADING AND PAVING OPERATIONS. CONTRACTOR SHALL NOT TRACK SOLIDS OR CONCRETE WASH OUT OR DEBRIS ON PUBLIC ROADWAYS. RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION.

5 PROPOSED STOCKPILE AND MATERIAL STORAGE AREA PER BMP WM-1 AND WM-3 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "E" HEREON.

6 CONSTRUCT GRAVEL BAG BERM AT PROJECT LIMITS PER BMP SE-6 IN CURRENT CASOA CONSTRUCTION BMP HANDBOOK.

D CONCRETE WASTE MANAGEMENT WM-8

EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE

FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY

OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE.

SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED,

REFER TO BMP #WM-8 FROM THE 2013 CALIFORNIA CONSTRUCTION BMP HANDBOOK

CONCRETE WASHOUT AREA SHALL BE LINED WITH A MINIMUM 10 MIL. POLYETHYLENE SHEETING.

APPLY BMP WM-1 FROM THE 2013 CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION

MATERIAL DELIVERY AND STORAGE AREAS SHOULD BE LOCATED NEAR THE CONSTRUCTION ENTRANCES,

AWAY FROM WATERWAYS OR DRAINAGE PATHS. PREFERRED METHOD OF MATERIAL STORAGE IS INDOORS

WITHIN EXISTING STRUCTURES OR SHEDS WHEN AVAILABLE. AT A MINIMUM, MATERIAL STORAGE AREA

MATERIALS SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS AND THE ORIGINAL PRODUCT LABELS

MATERIALS SHOULD BE STORED ON PALLETS AND SHOULD NOT BE ALLOWED TO ACCUMULATE ON THE

GROUND. SECONDARY CONTAINMENT SHALL BE PROVIDED, WHEN POSSIBLE, TO PROVIDE PROTECTION

FROM WIND AND RAIN, MATERIALS SHOULD BE COVERED DURING NON-WORKING DAYS AND PRIOR TO

EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED ON PROPER MATERIAL DELIVERY AND STORAGE

E MATERIAL STORAGE AND DELIVERY WM-1

DRIED, PICKED UP AND DISPOSED OF PROPERLY.

AVAILABLE AT www.cabmphandbooks.com.

SHALL BE SURROUNDED WITH PROTECTIVE BERMS.

SHOULD BE MAINTAINED IN PLACE IN A LEGIBLE CONDITION.

PRACTICES AND IN EMERGENCY SPILL CLEANUP PROCEDURES.

MINIMUM REQUIREMENTS FROM WM-1:

AND DURING RAIN OR WIND EVENTS.

CONCRETI

WASHOUT

AREA

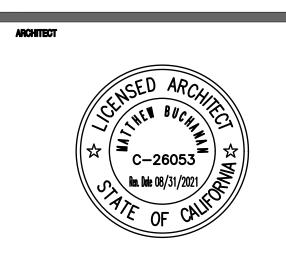
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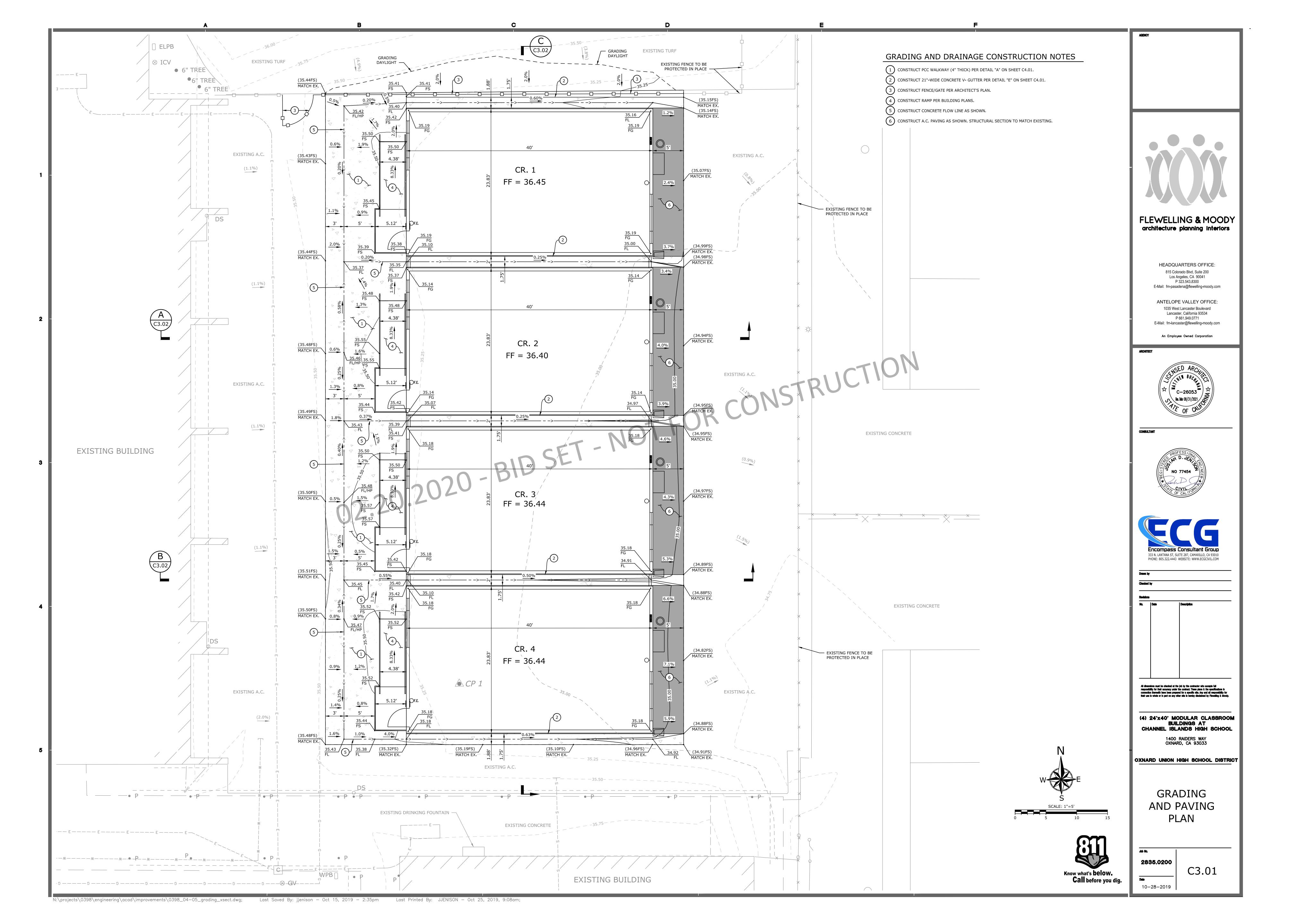
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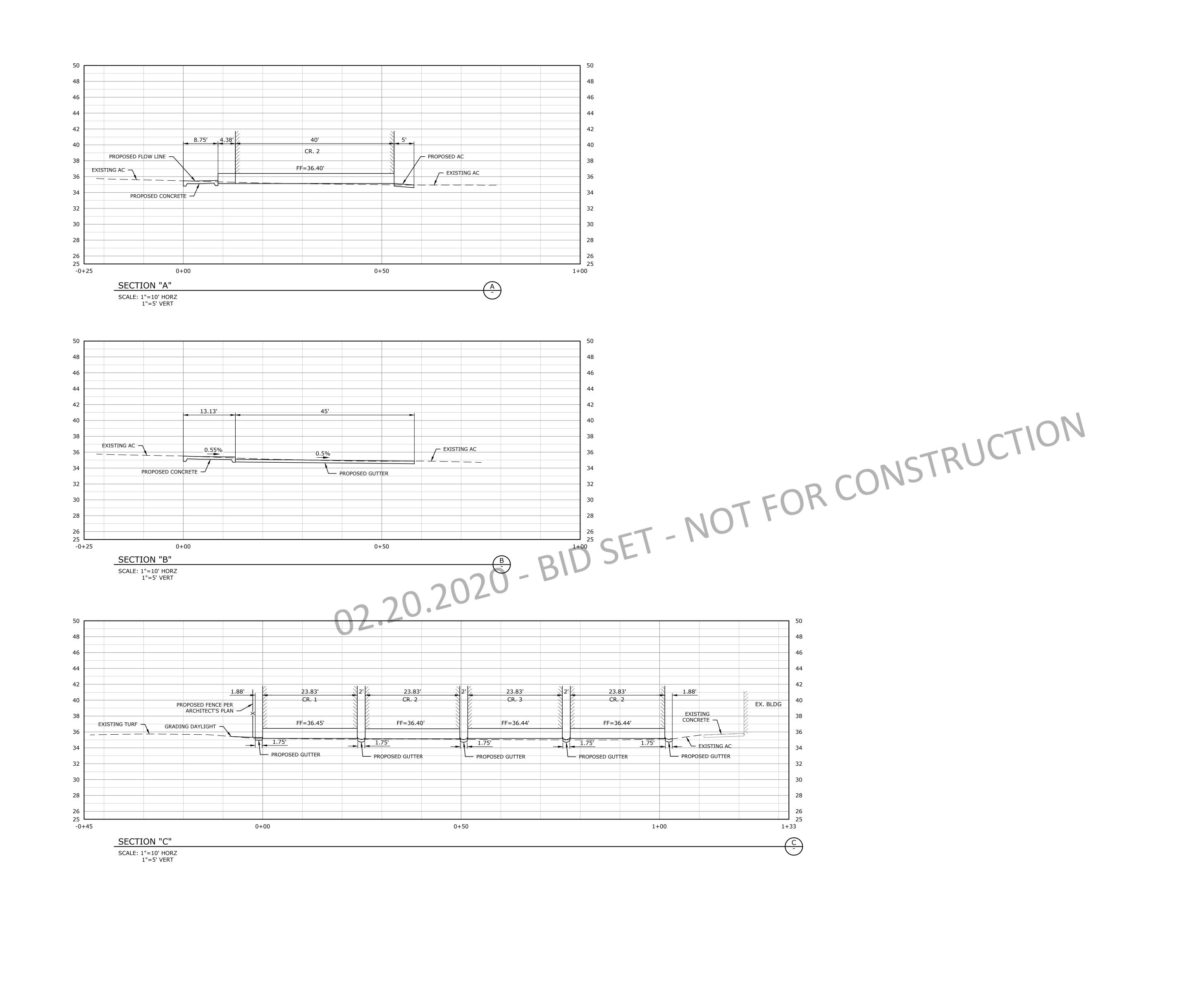
EROSION CONTROL PLAN

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Know what's **below**. Call before you dig.

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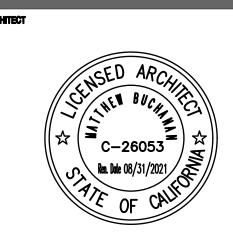
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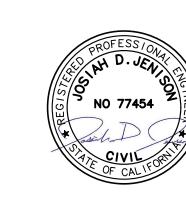
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(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL 1400 RAIDERS WAY OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

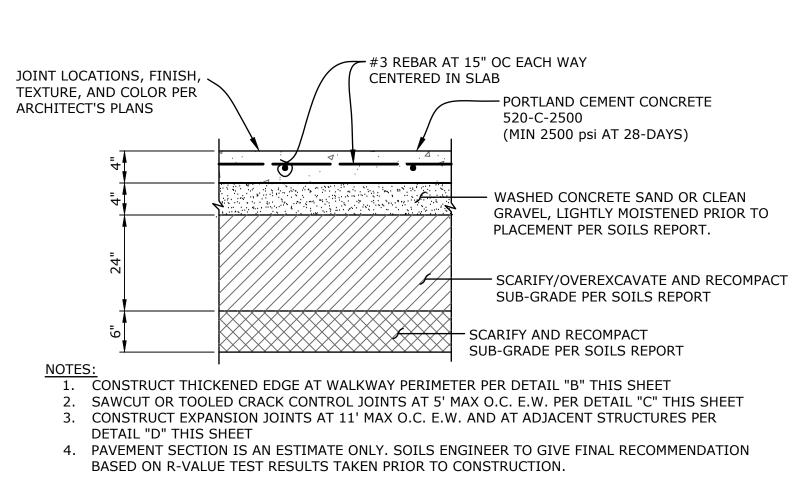
SITE SECTIONS

10-28-2019

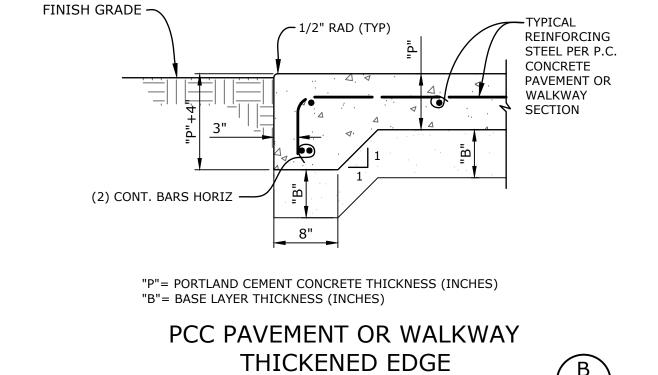


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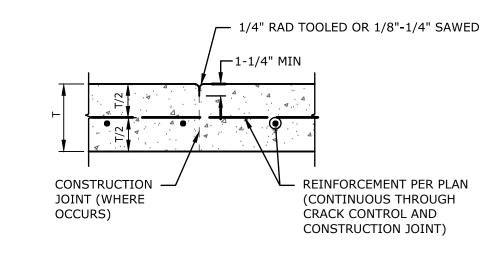
C3.02



WALKWAY PCC PAVEMENT SECTION SCALE: N.T.S.

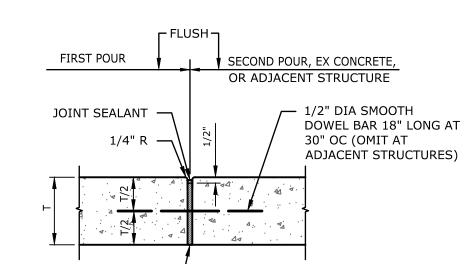


SCALE: N.T.S.



 SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT.
 CONSTRUCTION JOINTS SHALL ONLY BE LOCATED WHERE A CRACK CONTROL JOINT OR OTHER JOINT WOULD OTHERWISE HAVE BEEN 3. SEE PLAN FOR THICKNESS, T. 4. FOR CRACK CONTROL JOINTS LOCATIONS, SEE ARCH. PLANS.

5. CRACK CONTROL JOINTS TO BE SPACED AT 5' MAX O.C. E.W. CONSTRUCTION/CRACK CONTROL JOINT (C SCALE: N.T.S.



EXPANSION JOINT FILLER -

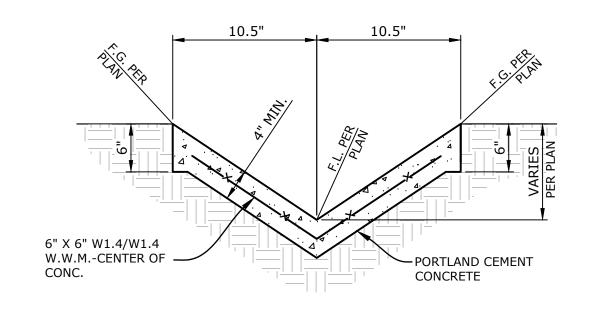
3. SEE PLAN FOR THICKNESS, T.

 SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT & EXPANSION JOINT FILLER.
 USE SMOOTH BARS FOR DOWELS COATED TO PREVENT BOND, GREASE ONE END PRIOR TO SECOND POUR.

4. PROVIDE ADEQUATE SUPPORT FOR DOWELS TO ENSURE THEY REMAIN LEVEL WITH FINISH SURFACE.

5. STOP SLAB REINFORCING AT EXPANSION JOINTS.

EXPANSION JOINT SCALE: N.T.S.



21" WIDE CONCRETE V-GUTTER SCALE: N.T.S.

02.20.2020 - BID SET - NOT FOR CONSTRUCTIVE

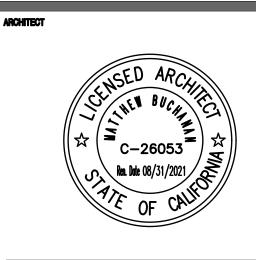


FLEWELLING & MOODY architecture planning interiors

> **HEADQUARTERS OFFICE:** 815 Colorado Blvd, Suite 200 Los Angeles, CA 90041 P 323.543.8300 E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE: 1035 West Lancaster Boulevard Lancaster, California 93534 P 661 949 0771 E-Mail: fm-lancaster@flewelling-moody.com

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Checked by				
Revision	18			
No.	Date	Description		

(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL 1400 RAIDERS WAY OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

DETAILS

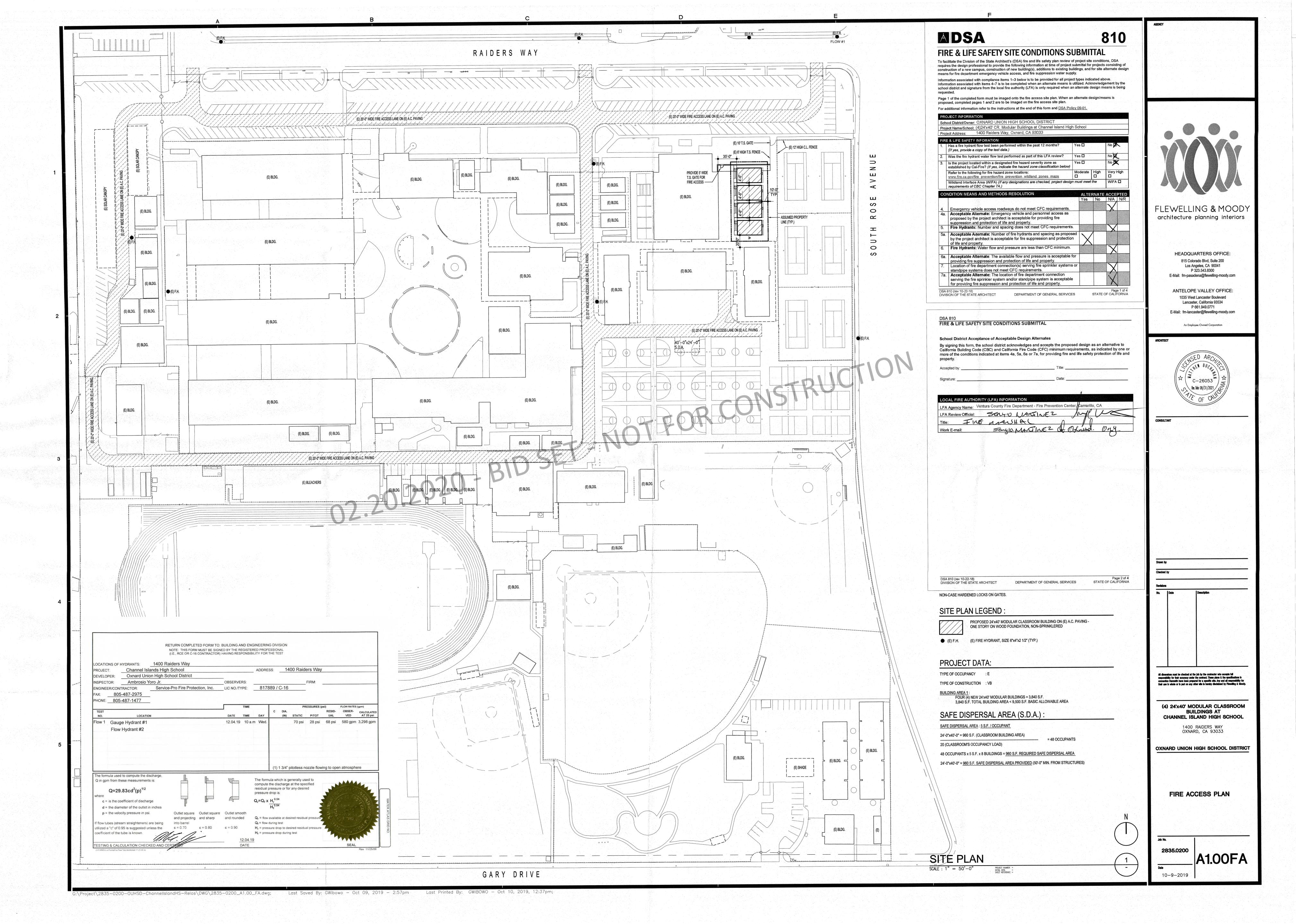


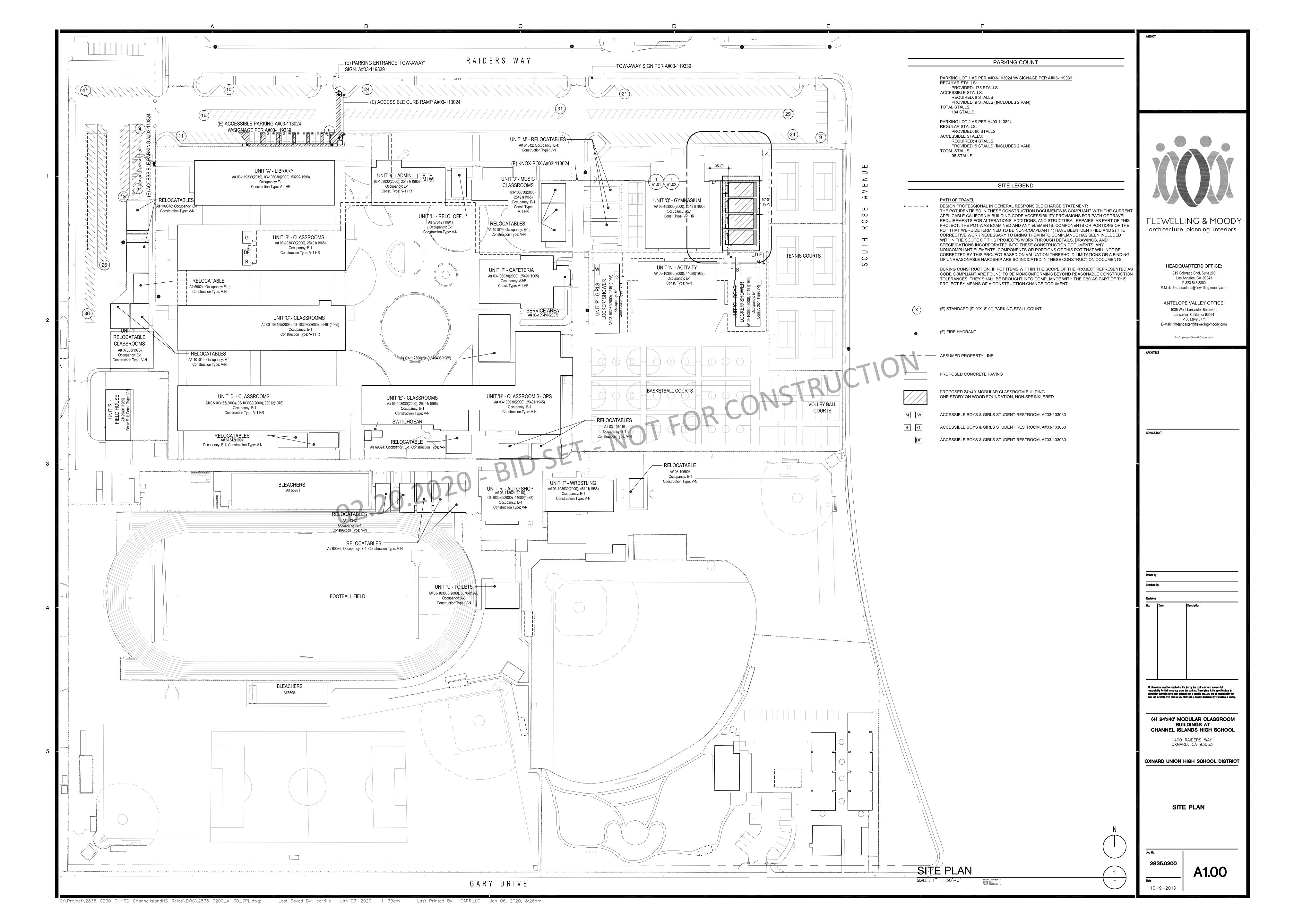
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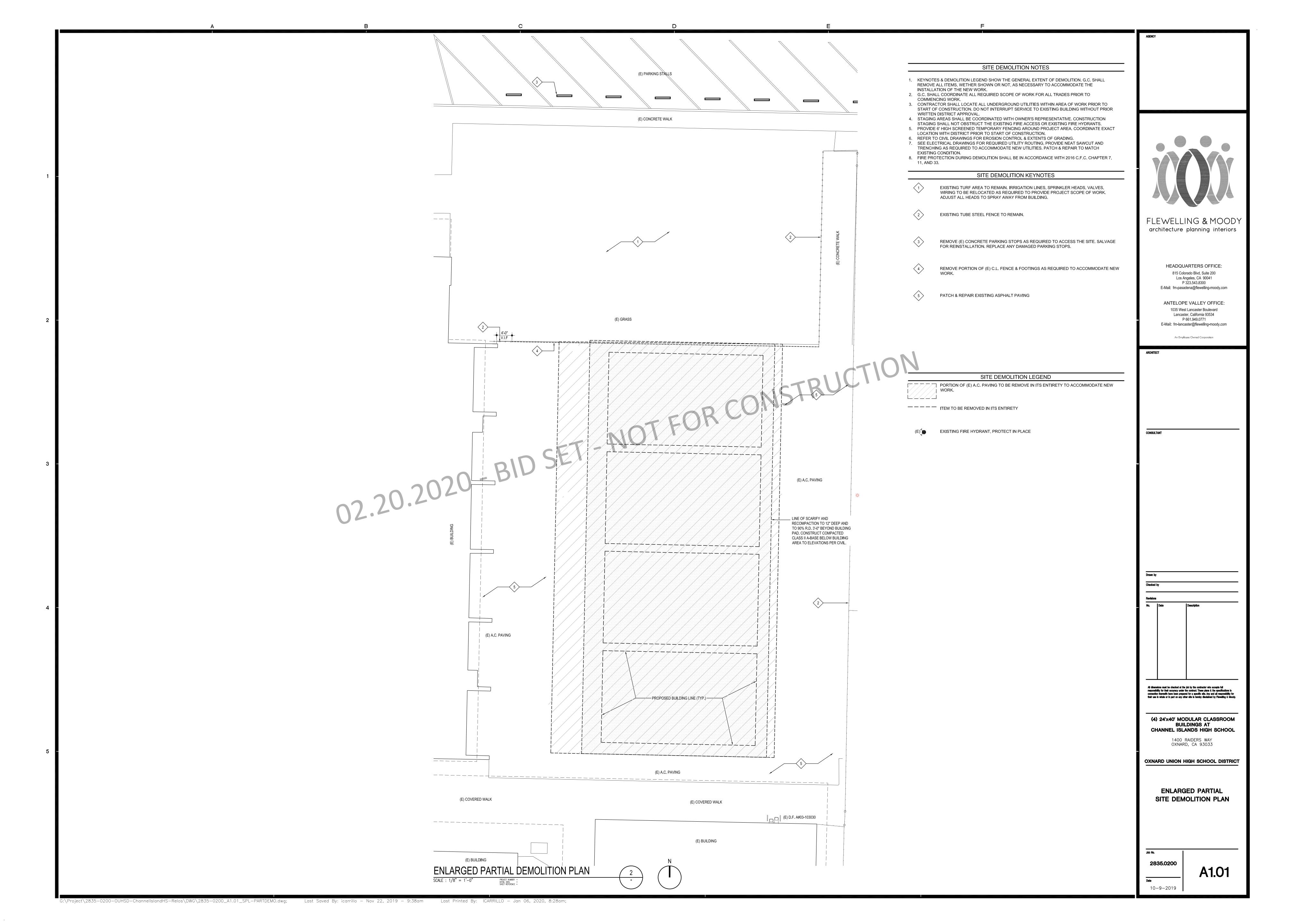
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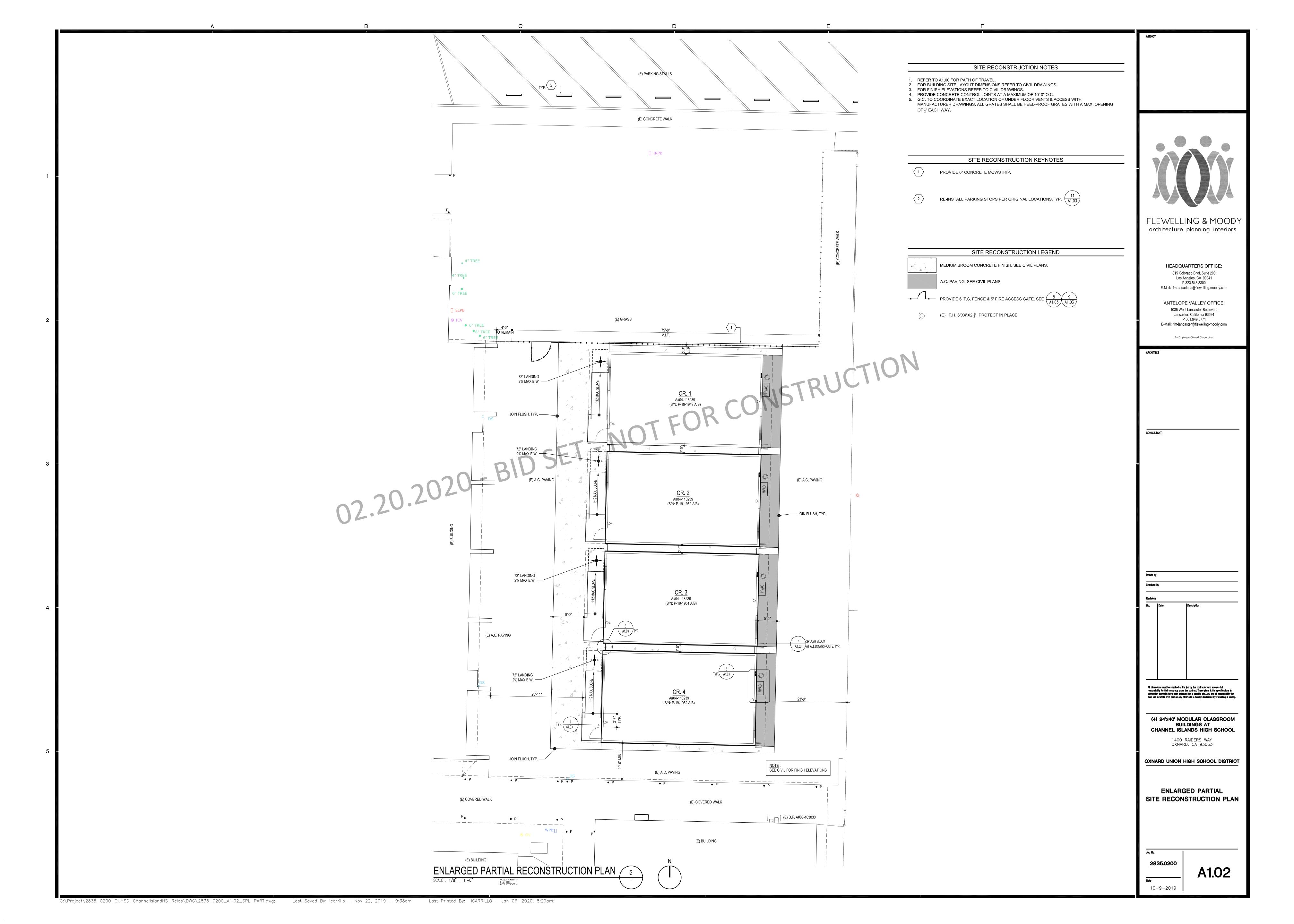
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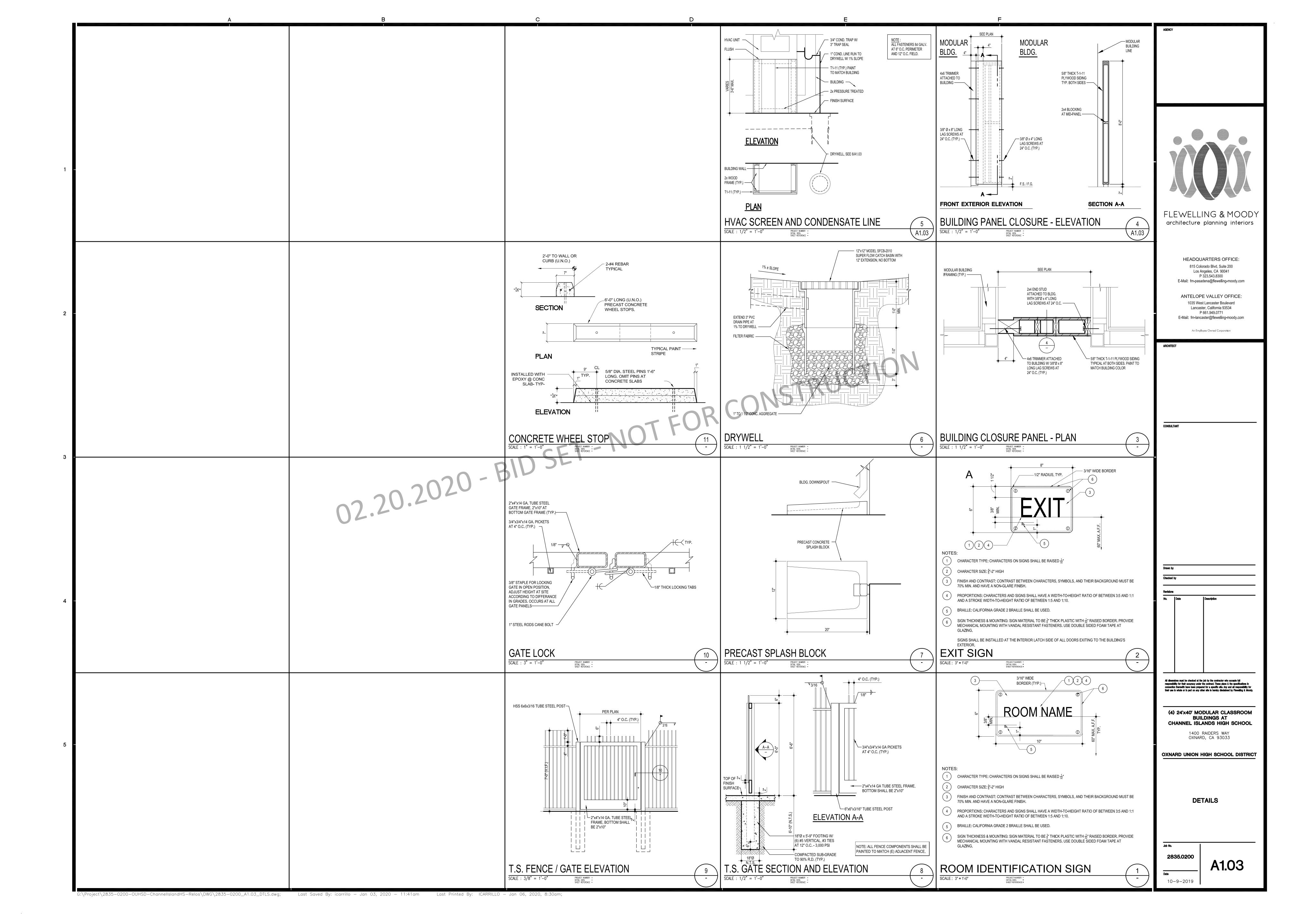
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PLUMBING GENERAL NOTES

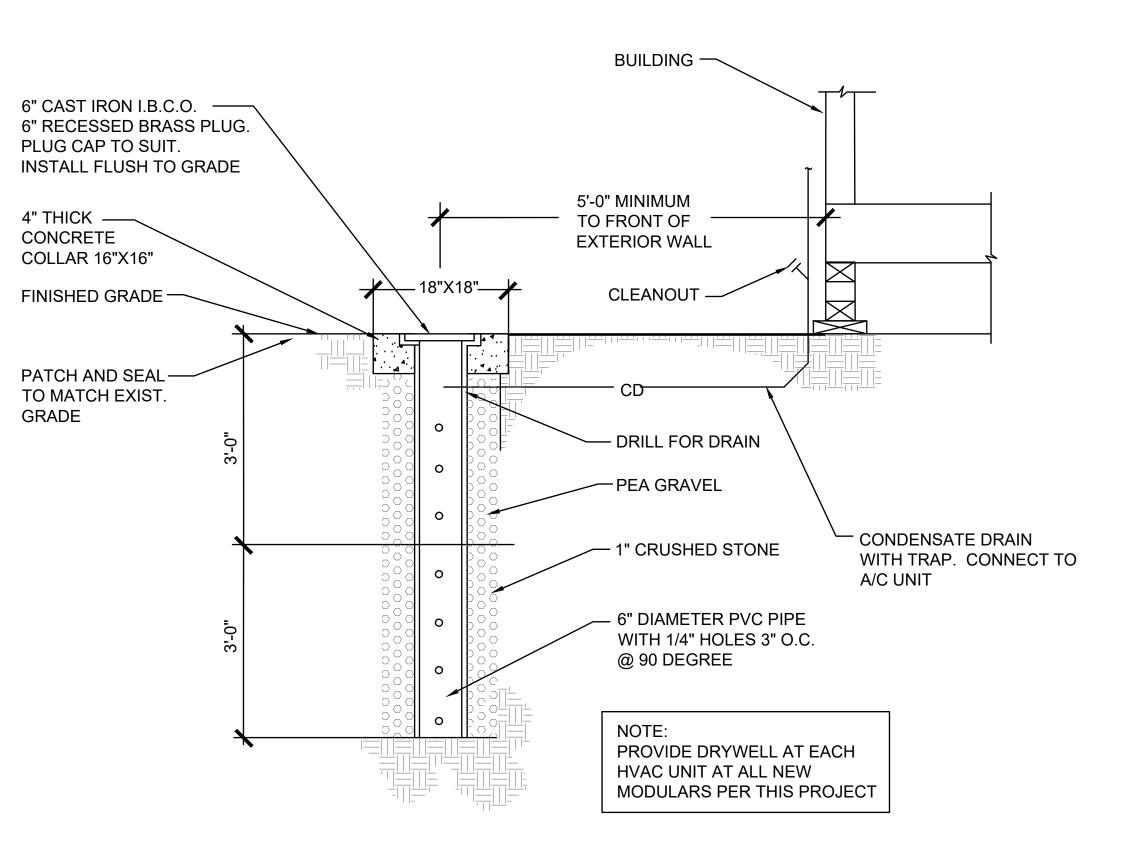
- A. BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS, AND WATER PRESSURE.
- B. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
- C. CLEANOUTS SHALL BE INSTALLED PER CODE REQUIREMENTS.
- D. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN STATE. FIRE MARSHALL STANDARD 43-1, AND SHALL BE U.L. LISTED.
- E. COORDINATE WITH ELECTRICAL SECTION PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGE AT EQUIPMENT LOCATIONS.
- F. ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- G. HANDICAPPED USE PLUMBING FIXTURES SHALL BE MOUNTED AT REQUIRED HEIGHTS AND WITH ALL RELATED ACCESSORIES AS REQUIRED BY THE ADMINISTRATIVE AUTHORITIES.
- H. ALL CONDENSATE LINES, HOT WATER AND HOT WATER RETURN LINES SHALL BE INSULATED.
- ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH "GUIDELINES FOR RESTRAINTS OF MECHANICAL SYSTEMS, PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA.
- ALL DOMESTIC WATER FIXTURES, PIPING VALVES, ETC. FOR HUMAN CONSUMPTION SHALL COMPLY WITH CALIFORNIA HEALTH AND SAFETY CODE 116875
- K. THESE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO ESTABLISH LOCATION OF WORK. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON EXISTING FIELD CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY FOR THE LOCATIONS, ACTUAL EQUIPMENT TO BE INSTALLED, AND THE MANUFACTURER'S REQUIRED CLEARANCES TO ASSURE PROPER FUNCTIONALITY, CONSTRUCTABILITY, AND CODE COMPLIANCE.
- ANY EQUIPMENT, DUCTWORK, OR PIPING INSTALLED MORE THAN 1'-0" FROM THE LOCATION SHOWN ON THE DRAWINGS SHALL BE CLEARLY DOCUMENTED IN THE FIELD. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS IN AUTOCAD COMPATIBLE FORMAT THAT CLEARLY SHOW THE LOCATION OF THE PIPING BEFORE THE COMPLETION OF THE PROJECT. ALL EXPENSE RELATING TO VERIFICATION OF THE AS-BUILT DRAWINGS BY THE OWNER OR ITS REPRESENTATIVE(S) DUE TO INACCURATE OR INCOMPLETE RECORD SHALL BE BORNE BY THE CONTRACTOR.
- M. POTABLE WATER SYSTEM SHALL BE FLUSHED AND CHLORINATED PER CODE PRIOR TO USE. RESULTS OF CHLORINATION SHALL BE GIVEN TO OWNER.
- N. CODE REFERENCES: 2019 CBC, 2019 CPC AND 2019 CAL GREEN CODE.
- O. CONTRACTOR SHALL REFERENCE THE SOILS REPORT BEFORE ANY TRENCHING AND INSTALLATION OF PIPING.

PIPE AND FITTING MATERIALS							
TYPE	MATERIAL	FITTINGS	LOCATION				
CD	SCHEDULE 40 PVC	SCHEDULE 40 PVC	ABOVE GRADE				
	SCHEDULE 40 PVC	SCHEDULE 40 PVC	BELOW GRADE				

	PLUMBING LEGEND			
SYMBOL	ABBR.	DESCRIPTION		
——ES——	ES	EXISTING WASTE LINE BELOW GRADE		
——ECW——	ECW	EXISTING COLD WATER LINE BELOW GRADE		
CD	CD	CONDENSATE LINE BELOW GRADE		
	-	DROP IN PIPE		
	-	RISE IN PIPE		
	-	DIRECTION OF FLOW		
+	НВ	HOSE BIBB		
	wco	WALL CLEANOUT		
	U	UNION		
•	BV	BALL VALVE		
•	POD	POINT OF DISCONNECT		
8	POC	POINT OF CONNECTION		
×	FCO	FLOOR CLEANOUT		
	AP	ACCESS PANEL		
	FU	FIXTURE UNIT		
	GPM	GALLONS PER MINUTE		
I.E.		INVERT ELEVATION		
	MV	MIXING VALVE ASSEMBLY		
	PRV	PRESSURE REDUCING VALVE		
	ВОР	BOTTOM OF THE PIPE		

02.20.2020 - BID SET - NOT FOR CONSTRUCTIV

DRYWELL DETAIL
SCALE: NONE



PLUMBING SHEET INDEX

PLUMBING FRONT SHEET

PLUMBING SITE PLAN

PLUMBING ENLARGED PARTIAL RECONSTRUCTION PLAN

BUDLONG & ASSOCIATES, INC
MEP CONSULTING ENGINEERS
Job No. 19-244

FLEWELLING & MOODY

architecture planning interiors

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All dimensions must be checked at the job by the contractor who accepts full responsibility for their An uninersors must be checked at the job by the contractor win dacepts full responsibility or their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

(4) 24'x40' MODULAR CLASSROOM **BUILDINGS AT** CHANNEL ISLANDS HIGH SCHOOL

1400 RAIDERS WAY

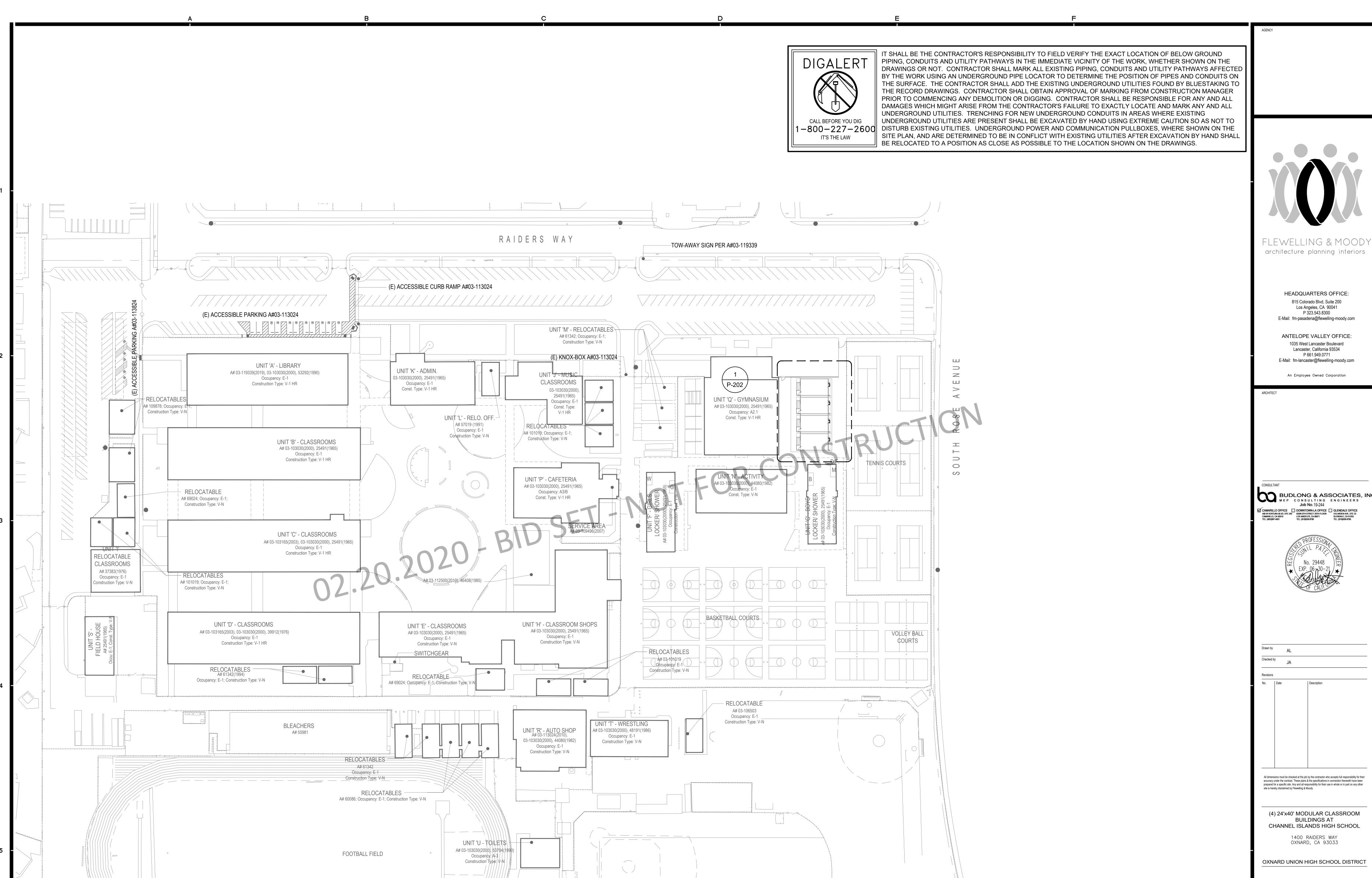
OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

PLUMBING FRONT SHEET

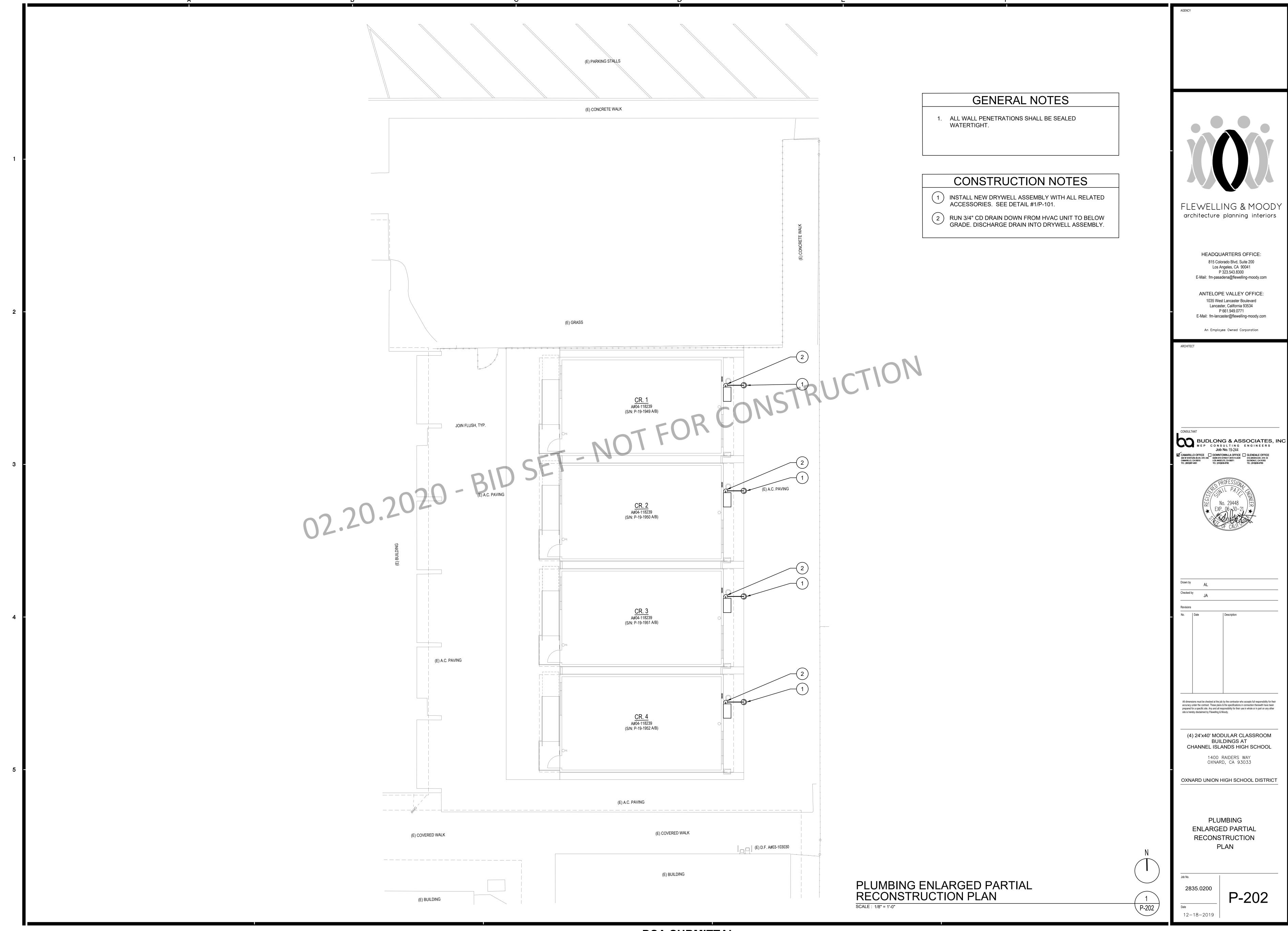
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P-101

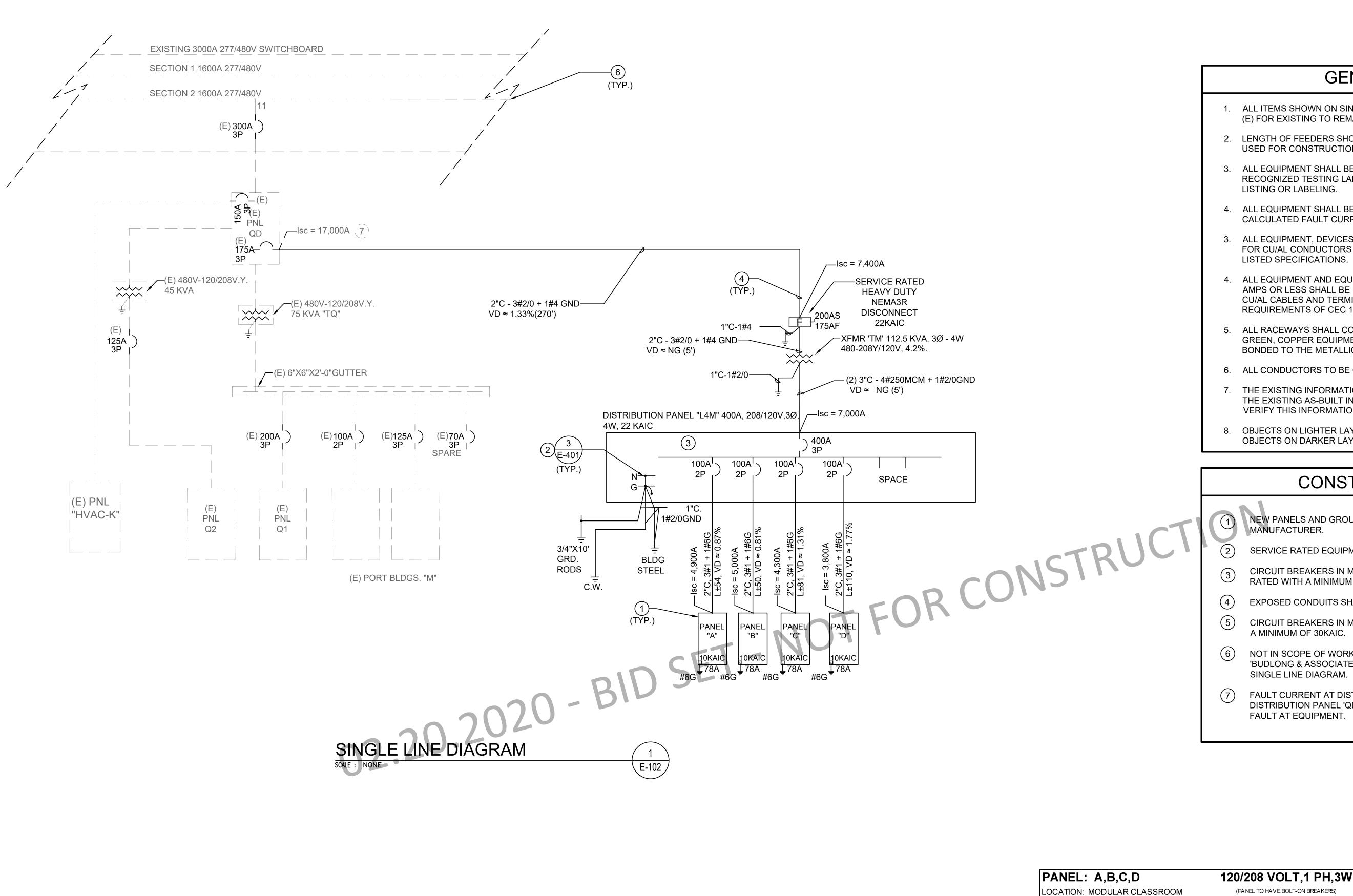


BUDLONG & ASSOCIATES, INC All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody. OXNARD UNION HIGH SCHOOL DISTRICT PLUMBING SITE PLAN P-201 P-201 12-18-2019

PLUMBING SITE PLAN



GENERAL NOTES		STANDARD ABBREVIATIONS	SYMBOL LIST (NOT ALL SYMBOLS ARE USED ON PLANS)	AGENCY
1. CONSULT WITH THE OWNER AND STRUCTURAL ENGINEER OF RECORD BEFORE STARTING WORK. 23 2. NO CONDUITS ARE TO BE INSTALLED ON ARCADES OR ROOF U.O.N. ALL EXPOSED CONDUITS, SUPPORTS AND JUNCTION BOXES SHALL BE PAINTED TO MATCH THE PREDOMINANT COLOR OF THE BUILDING, AS APPROVED BY STRUCTURAL EOR AND ELECTRICAL EOR. 24 3. COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES. 4. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED 25. PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, IDITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE. EACH FENCE PANEL SHALL BE 6FT TALL X 10FT WIDE WITH STAND AND TIED 26. TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES. 5. WHERE STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW HOLES, UNLESS	ALL ELECTRICAL WORK SHALL BE PER THE APPLICABLE CEC CODE. CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIRED LABOR, MATERIAL, EXPERTISE AND QUALIFIED PERSONNEL TO COMPLETELY INSTALL IN A CODE COMPLIANT MANNER, ALL WORK SHOWN ON THE PLANS OR REFERRED TO IN THE SPECIFICATIONS. WHEN THERE ARE DISCREPANCIES BETWEEN CONTRACT DOCUMENTS (DRAWINGS NID/OR SPECIFICATIONS), OBTAIN CLARIFICATION FROM THE ENGINEER PRIOR TO BID. FOR BIDDING PURPOSES THE MORE STRINGENT OR MORE EXPENSIVE REQUIREMENT(S) SHALL APPLY. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A DAILY RECORD OF ALL DEVIATIONS FROM THE BID DRAWINGS. ALL DIMENSIONS AND OTHER NIFORMATION NECESSARY TO COMPLETELY EXPLAIN AND LOCATE ALL ELEMENTS OF THESE DEVIATIONS SHALL BE RECORDED. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER, ONE COMPLETE SET OF REPRODUCIBLE DRAWINGS CORRECTED TO REFLECT "AS-BUILT" CONDITIONS OF THE WORK. ANY SUBMITTALS FOR EQUIPMENT DIFFERENT FROM THE SPECIFIED ITEMS SHOWN ON THE PLANS SHALL BE ACCOMPANIED BY CUT SHEETS FOR THE DRIGINAL SPECIFIED ITEM(S). SUBMITTALS WITHOUT THE SPECIFIED CUT SHEETS WILL BE REJECTED AS INCOMPLETE.	A OR AMP AMPERES AFF ABOVE FINISH FLOOR AFG ABOVE FINISH GRADE A/C ASPHALT /CONCRETE BKR. BREAKER BC BARE COPPER C C CONDUIT CKT. CIRCUIT C.O. CONDUIT ONLY DSA DIVISION OF THE STATE ARCHITECT E EXISTING EOR ENGINEER OF RECORD ER EXISTING, RELOCATED EX EXISTING, REMOVED F.O. FIBER OPTIC GROUND FAULT INTERRUPTER	SYMBOL LIST (NOT ALL SYMBOLS ARE USED ON PLANS) POWER SYSTEM JUNCTION BOX: SURFACE MOUNTED OR INSIDE WALL COMBINATION FUSED MOTOR DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SIZED ACCORDING TO MOTOR MANUFACTURER RECOMMENDATIONS, HOA, STARTER SIZE 1 MIN., SOLID STATE ADJUSTABLE OVER LOAD PROTECTION, MOUNTED ON INDEPENDENT SUPPORT. SURFACE MOUNTED PANELBOARD FLUSH MOUNTED PANELBOARD TITANSFORMER PB UNDERGROUND POWER PULLBOX NOTE REFERENCE TAG. CONDUIT TURNED UP	FLEWELLING & MOODY
6. THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING UNDERGROUND CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE OWNER AT THE TIME THE DRAWINGS WERE PREPARED. THE ENGINEER PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT PROVIDE A GUARANTEE OR WARRANTY IN ANY WAY EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO PROTECT THE EXISTING INSTALLATION AND TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT. 7. ALL FEEDERS AND BRANCH CIRCUITS SHALL CARRY A GROUND WIRE, SIZED AS PER C.E.C. ARTICLE 250 AND BONDED TO THE METALLIC COMPONENTS OF THE	ALL MATERIALS, EQUIPMENT, CONDUIT AND WIRING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT. WIRING FOR ALL LOW VOLTAGE SYSTEMS SHALL BE ENCLOSED IN CONDUIT AND/OR RACEWAY. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR BEFORE THE WORK BEGINS. ALL PERCEIVED ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE CONSTRUCTION BEGINS. ALL RACEWAYS INSIDE OF BUILDING SHALL BE CONCEALED. INCLUDE ALL REQUIRED DEMOLITION, CUTTING, PATCHING AND FINISH TO MATCH EXISTING INSTALLATION AS REQUIRED TO INSTALL NEW CONDUIT AND RACEWAYS IN	J.BOX NG NEGLIGIBLE N.I.C. NOT IN CONTRACT OAR OWNER AUTHORIZED REPRESENTATIVE PA PUBLIC ADDRESS PH OR Ø PHASE RSP REMOTE SECURITY PANEL SLC SIGNALING LINE CIRCUIT DWP,LADWP LOS ANGELES DEPT. OF WATER & POWER STC SECURITY TERMINAL CABINET SPS SECURITY POWER SUPPLY	DISCONNECT SWITCH, "F" INDICATES FUSED DUPLEX RECEPTACLE NEMA 5-15R, +18" UNLESS NOTED A-1,3 BRANCH CIRCUIT HOME RUN TO PANELBOARD. LETTER AND NUMBER NOTATION IDENTIFY PANEL & CIRCUIT NUMBERS	HEADQUARTERS OFFICE: 815 Colorado Blvd, Suite 200 Los Angeles, CA 90041 P 323.543.8300 E-Mail: fm-pasadena@flewelling-moody.com ANTELOPE VALLEY OFFICE: 1035 West Lancaster Boulevard Lancaster, California 93534 P 661.949.0771 E-Mail: fm-lancaster@flewelling-moody.com
8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT. 9. PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS. 10. EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION. 33. 11. COORDINATION: A.IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN. 34. I 13. THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED 35. I	EXISTING BUILDING. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED FLOOR SLABS, SHAFTS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRE STOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING OF THE STRUCTURE BEFORE THE PENETRATION. ALL OTHER NON-RATED PENETRATIONS OF STRUCTURES SHALL BE SEALED. CONDUITS ABOVE T-BAR CEILINGS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO EXISTING BEAMS OR WALLS. EXPOSED CONDUITS UP TO 7'-0" MBOVE FINISH FLOOR SHALL BE RIGID GALVANIZED STEEL AND ABOVE 7'-0" MAY BE SMT. PROVIDE ELECTRICAL PANELS WITH TYPEWRITTEN "AS-BUILT" PANEL SCHEDULE. PANEL SCHEDULE SHALL INCLUDE LOCATION, QUANTITY AND TYPE OF DEVICES SERVED. PROVIDE ELECTRICAL PANELS WITH ENGRAVED NAMEPLATE ON OUTSIDE OF PANEL ABOVE DOOR OPENING.	SW SWITCH XFMR TRANSFORMER TVSS TRANSIENT VOLTAGE SURGE SUPPRESSER TVTC TELEVISION TERMINAL CABINET TYP. TYPICAL UFER UFER GROUND UG UNDERGROUND U.O.N. UNLESS OTHERWISE NOTED WP WEATHERPROOF V.L. VERIFY LOCATION.		An Employee Owned Corporation ARCHITECT ARCHITECT BUDLONG & ASSOCIATES, IN BUDLONG & ASSOCIATES, IN MEP CONSULTING ENGINEERS Job No. 19-244 CAMARILLO OFFICE DOWNTOWN-LA OFFICE S33W-5TH STREET 28TH FLOOR LOS ANGELES, CA 910701 TEL: (805)987-40010 TEL: (805)88-87800 TEL: (816)808-87800 TEL: (805)88-87800 TEL: (816)808-87800
RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL REMOVED EQUIPMENT NOT TO BE REUSED SHALL BE RETURNED TO OWNER'S OR AS DIRECTED BY THE OWNER'S INSPECTOR. 15. ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX. 16. THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS. 17. TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE ENGINEER THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND	SUPPORT CONDUIT 2-1/2 INCH TRADE SIZE OR SMALLER WITH U.L. LISTED CLAMPS AND HANGERS IN ACCORDANCE WITH SMACNA STANDARDS. THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. 2019 CHAPTER 16 AND ASCE 7-10, CHAPTER 13. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCTS, WIREWAYS AND CABLE TRAYS SHALL BE IN ACCORDANCE WITH THE "GUIDELINE OR SEISMIC RESTAINS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA LATEST VERSION. A COPY OF THE APPROVED GUIDELINE SHALL BE PROVIDED BY THE CONTRACTOR AND BE KEPT AT THE JOB SITE AT ALL TIMES. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDLINE, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, ELECTRICAL ENGINEER AND SIELD INSPECTOR.	DEMOLITION GENERAL NOTES 1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION OF ANY WORK. 2. NOT ALL FIXTURES, DEVICES, RACEWAYS, ETC. FOR REMOVAL ARE SHOWN. CONTRACTOR SHALL SURVEY SITE AND REVIEW ALL DEMOLITION/CONSTRUCTION DOCUMENTS FOR COMPLETE DEMOLITION/CONSTRUCTION SCOPE OF ALL TRADES TO PROVIDE BID THAT ADEQUATELY COVERS THE REQUIRED SCOPE OF WORK. 3. AS A RESULT OF ANY DEMOLITION, ALLOW NO 'ORPHANED' OR ISOLATED DEVICES OUTSIDE OF WORK SCOPE AREA TO REMAIN DISCONNECTED. PROVIDE ANY NECESSARY NEW	CONDUIT/CONDUCTOR TYPE	CAMARILIO, CA 93010 TEL: (818)638-8780 TEL: (818)638-8780 TEL: (818)638-8780 TEL: (818)638-8780 TEL: (818)638-8780
BUILDING THE EXPOSED CONDUITS UP TO 8'-0" SHALL BE RIGID STEEL AND ABOVE 8'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID CONDUITS. THREADLESS CONNECTORS & COUPLINGS SHALL NOT BE USED FOR RIGID CONDUIT. CONDUIT LARGER THAN 1 1/4" SHALL BE GALVANIZED RIGID CONDUIT. ALL EXPOSED CONDUITS, RACEWAYS, AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. DO NOT PAINT THE WIREMOLD. 19. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A ½"=1'-0" SCALED DRAWING OF ELECTRICAL EQUIPMENT ROOMS		TERMINATIONS, CONDUCTORS, CONNECTIONS, CONDUIT, ETC.	* FOR ALL COMPUTER RECEPTACLE BRANCH CIRCUITS PROVIDE SEPARATE NEUTRAL WIRE AND PROVIDE A GROUND WIRE IN ALL CONDUITS AND WIREMOLD RACEWAYS. ALL OTHER BRANCH CIRCUITS SHALL SHARE NEUTRAL AS SHOWN ON DRAWINGS.	Revisions No. Date Description
SHOWING LOCATION AND CLEARANCES OF SUBMITTED EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ELECTRICAL EQUIPMENT. 20. PROVIDE SUPPORTS AND SEISMIC BRACING FOR ALL EQUIPMENT TO COMPLY WITH 2007 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE, CHAPTER 16, TABLE 16A AND ASSOCIATED NOTES. 21. PER CEC 300-21, "OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS, CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING."	APPLICABLE CODES 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. 2019 CALIFORNIA ENERGY CODE.	PROVIDE HANGERS, SUPPORTS, SEISMIC RESTRAINTS AND/ OR BRACING FOR ALL EQUIPMENT, CONDUIT, AND LIGHTING FIXTURES TO SUSTAIN VERTICAL LOADS AND RESIST HORIZONTAL FORCES IN ANY DIRECTION TO COMPLY WITH 2019 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE, CHAPTER 16A.	NAME SHEET TITLE E-101 ELECTRICAL FRONT SHEET E-102 ELECTRICAL PARTIAL SINGLE LINE DIAGRAM AND LOAD SCHEDULE E-201 ELECTRICAL SITE PLAN	All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody. (4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL
22. ALL CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER, TYPE THWN/THHN, RATED FOR 75°C. SIZES #12 AWG SHALL BE SOLID. #10 AND LARGER SHALL BE STRANDED. PROVIDE 75°C RATED AND APPROVED TERMINATION FOR ALL CONDUCTORS.	TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. PARTIAL LIST OF APPLICABLE STANDARDS NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2019 EDITION (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF STRUCTURAL ENGINEER AND THE DSA FIELD ENGINEER.	E-202 ELECTRICAL SITE PHOTOMETRIC PLAN E-301 ELECTRICAL PARTIAL RECONSTRUCTION PLAN E-401 ELECTRICAL DETAILS A. EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS. OR B. SOURCE OF POWER HAS BEEN INVESTGATED AND IS ADEQUATE FOR THE ADDITIONAL LOAD. C. SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TEST.	Date 1400 RAIDERS WAY 0XNARD, CA 93033 OXNARD UNION HIGH SCHOOL DISTRICT ELECTRICAL FRONT SHEET E-101 E-101



GENERAL NOTES

1. ALL ITEMS SHOWN ON SINGLE LINE DIAGRAM ARE NEW, UNLESS NOTED AS (E) FOR EXISTING TO REMAIN.

2. LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSE.

3. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.

4. ALL EQUIPMENT SHALL BE U.L. LISTED AND RATED TO WITHSTAND THE CALCULATED FAULT CURRENT AS SHOWN ON THE DRAWINGS.

3. ALL EQUIPMENT, DEVICES AND TERMINALS SHALL BE U.L. LISTED AND RATED FOR CU/AL CONDUCTORS AND SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.

4. ALL EQUIPMENT AND EQUIPMENT ENCLOSURES SERVING CIRCUITS 100 AMPS OR LESS SHALL BE U.L. LISTED AND CERTIFIED FOR USE WITH 75°C CU/AL CABLES AND TERMINATIONS AND SHALL COMPLY WITH THE REQUIREMENTS OF CEC 110.14:(C)(1)(a)(3).

ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.

6. ALL CONDUCTORS TO BE COPPER TYPE THWN/THHN-2 OR TYPE XHHW.

7. THE EXISTING INFORMATION PRESENTED ON THIS DRAWING IS BASED ON THE EXISTING AS-BUILT INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY THIS INFORMATION PRIOR TO BID SUBMITTAL.

8. OBJECTS ON LIGHTER LAYER INDICATES NO WORK EXISTING SYSTEM, OBJECTS ON DARKER LAYER INDICATES NEW WORK/ALTERATION.

CONSTRUCTION NOTES

NEW PANELS AND GROUNDING PROVIDED BY THE MODULAR MANUFACTURER.

SERVICE RATED EQUIPMENT WITH BONDING JUMPER.

CIRCUIT BREAKERS IN MAIN DISTRIBUTION PANEL "L4M" SHALL BE FULLY RATED WITH A MINIMUM OF 22KAIC.

EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL.

10,000AIC

OUTLETS | CKT BKR | CKT BKR | OUTLETS

80 || 20 | 1 |

| 2 | \ | | 20 | 1 |

1 | 20 | | 20 | 1

1 20 | 20 | 1

20 1 3 20 1 12

| 20 | 1 | 2

CIRCUIT BREAKERS IN MAIN SWITCHBOARD SHALL BE FULLY RATED WITH

NOT IN SCOPE OF WORK, SEE CONSTRUCTION DOCUMENTS PRODUCED BY 'BUDLONG & ASSOCIATES' UNDER JOB NO - 19-248 FOR THE COMPLETE

FAULT CURRENT AT DISTRIBUTION PANEL IS TAKEN FROM EXISTING DISTRIBUTION PANEL 'QD' AS WORST CASE TO CALCULATE DOWNSTREAM FAULT AT EQUIPMENT.

LOAD DESCRIPTION

RECEPTACLE

RECEPTACLE

EXIT LIGHTS

EXIT SIGNS

E-102

GFI RECEPTACLE

2X4 LED LIGHTS

BUDLONG & ASSOCIATES, INC A MINIMUM OF 30KAIC. Job No.19-244 CAMARILLO OFFICE DOWNTOWN-LA OFFICE GLENDALE OFFICE
400 W VENTURA BLVD, STE 240
CAMARILLO, CA 93010 LOS ANGELES, CA 90071
TEL: (805)987-4001 TEL: (818)539-8780 TEL: (819)539-8780 SINGLE LINE DIAGRAM.

225 AMP COPPER BUS

MAIN: 100AMPS

VA LOAD

LINE A LINE B

720

180

660

LOAD: **20.1 86** AMPS

360

540

SUB - TOTALS | 1083 | 1560 |

LINE TOTALS: 8113 8430

LINE AMPS 82 86

TOTAL VA PER PHASE 9826 10263

LCL ADDER 1713 | 1833 |



FLEWELLING & MOODY

architecture planning interiors

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1035 West Lancaster Boulevard

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(4) 24'x40' MODULAR CLASSROOM **BUILDINGS AT** CHANNEL ISLANDS HIGH SCHOOL 1400 RAIDERS WAY

OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

ELECTRICAL PARTIAL SINGLE LINE DIAGRAM AND LOAD SCHEDULE

12-18-2019

E-102

120/208 VOLT wye, 3 PH, 4W PANEL: L4M **400AMP COPPER BUS** LOCATION: EXTERIOR MODULAR CLASSROOMS (PANEL TO HAVE BOLT-ON BREAKERS) **MAIN: 400A** MOUNTING: STAND ALONE 22KAIC LOAD: **77.4** kVA **245** AMPS VA LOAD OUTLETS | CKT BKR | CKT BKR | OUTLETS LOAD DESCRIPTION LOAD DESCRIPTION LINE A LINE B LINE C LINE A LINE B LINE C 10108 PANEL 'A' PANEL 'C' 9238 10108 100 10108 | PANEL 'B' 9238 100 9238 PANEL 'D' 10108 9238 SPACE SPACE SPACE SPACE SPACE | 19345 | 9238 | 10108 | SUB - TOTALS SUB - TOTALS | 10108 | 19345 | 9237.5 | LINE TOTALS: 29453 28583 19345 LCL ADDER TOTAL VA PER PHASE | 29453 | 28583 | 19345 | LINE AMPS 245 238 161

MOUNTING: FLUSH

VA LOAD

LINE A LINE B

| 6670 |-

| 7030 | 6870 | SUB - TOTALS

AC UNIT

QUAD RECEPTACLE

200 FACP DEDICATED REC

6670

LOAD DESCRIPTION

NOTE: 1. OCCURS ONLY AT PANEL A. PROVIDE RED LOCK-ON DEVICE.

PANEL SCHEDULES

E-102

MAIN SWITCHBOARD SERVICE LOAD SUMMARY

EXISTING LOAD IN KVA = 370

EXISTING LOAD @1.25% = 463

NEW MODULAR LOAD = 77

TOTAL LOAD = 543

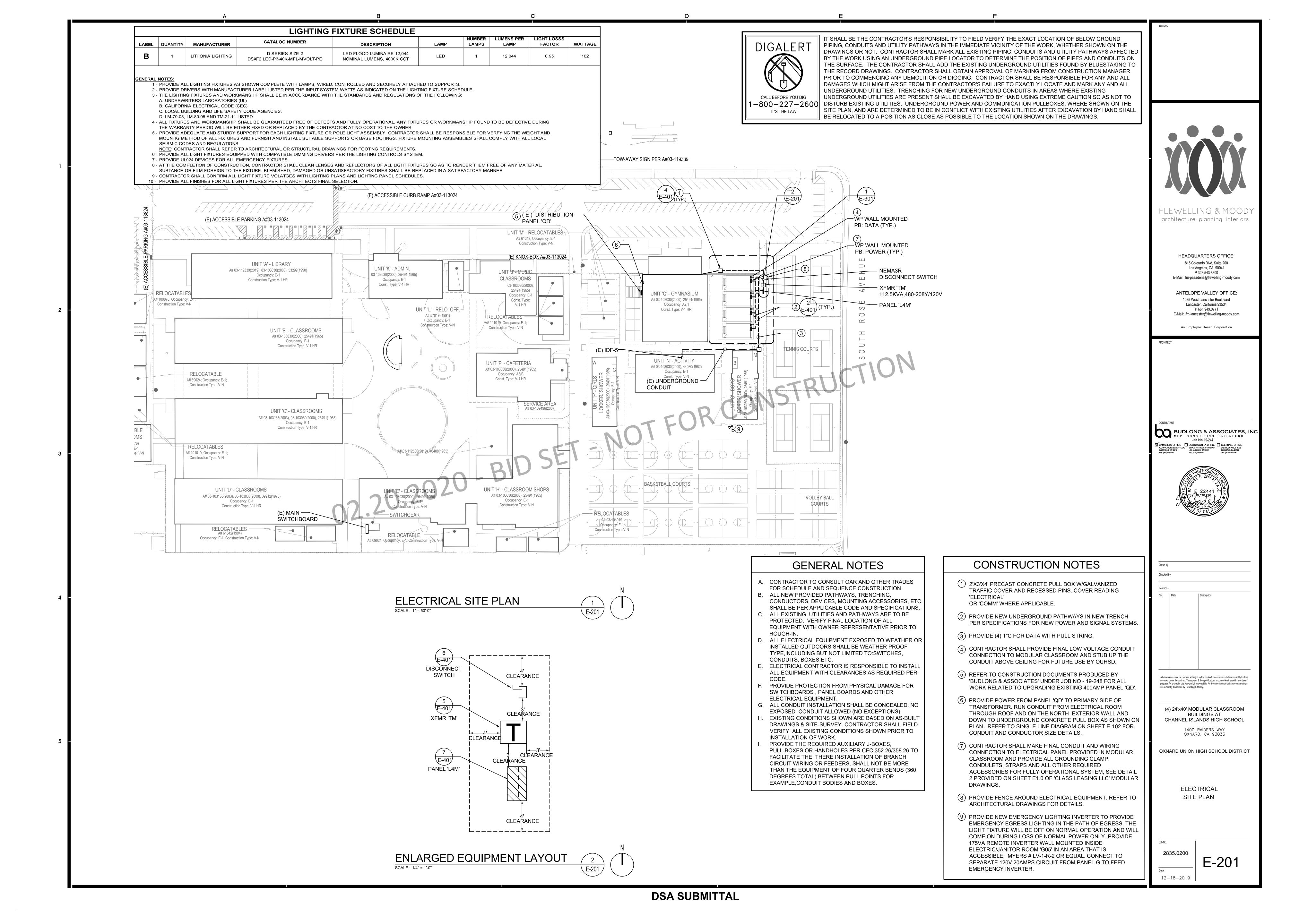
25% OF LARGEST MOTOR = 3

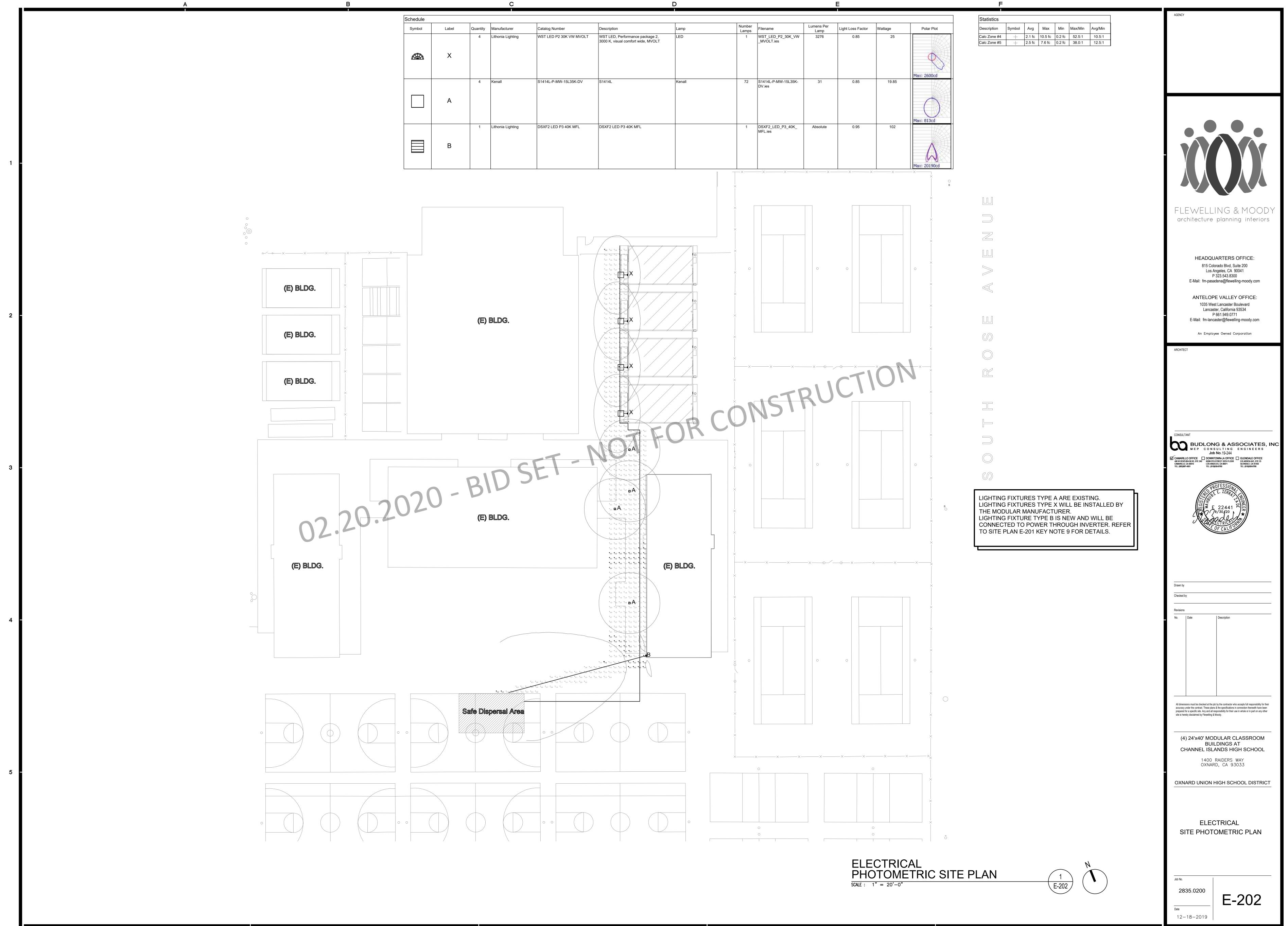
TOTAL NEW LOAD @480 - 3PH = 654

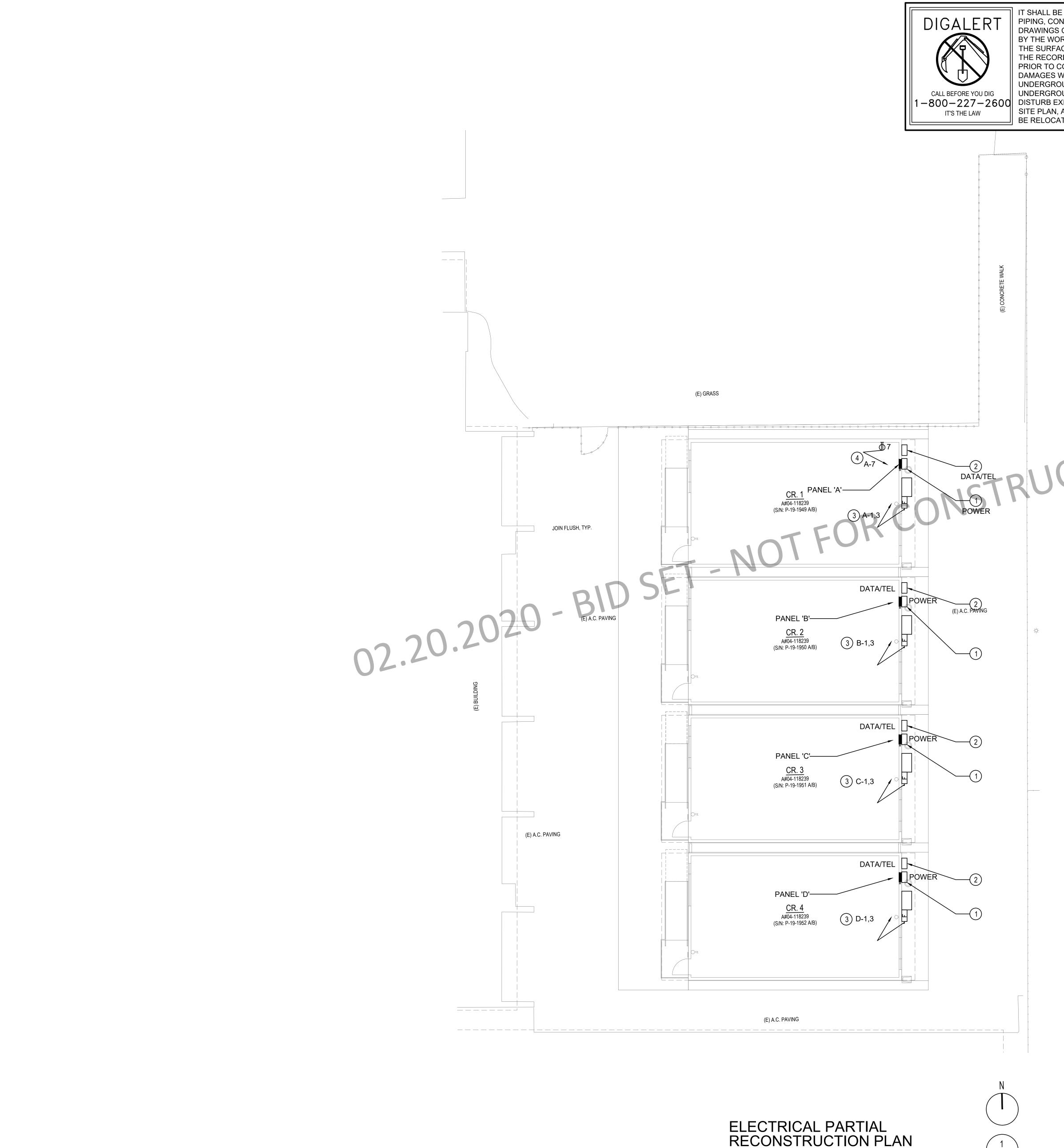
EXISTING SCE HIGHEST PEAK DEMAND IN LAST 12 MONTHS = 296

EXISTING SERVICE: 3000AMPS @480

LOAD CALCULATION







DIGALERT

PIPING, CONDUITS AND UTILITY PATHWAYS IN THE IMMEDIATE VICINITY OF THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT. CONTRACTOR SHALL MARK ALL EXISTING PIPING, CONDUITS AND UTILITY PATHWAYS AFFECTED BY THE WORK USING AN UNDERGROUND PIPE LOCATOR TO DETERMINE THE POSITION OF PIPES AND CONDUITS ON THE SURFACE. THE CONTRACTOR SHALL ADD THE EXISTING UNDERGROUND UTILITIES FOUND BY BLUESTAKING TO THE RECORD DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL OF MARKING FROM CONSTRUCTION MANAGER PRIOR TO COMMENCING ANY DEMOLITION OR DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT SHALL BE EXCAVATED BY HAND USING EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. UNDERGROUND POWER AND COMMUNICATION PULLBOXES, WHERE SHOWN ON THE SITE PLAN, AND ARE DETERMINED TO BE IN CONFLICT WITH EXISTING UTILITIES AFTER EXCAVATION BY HAND SHALL BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWINGS.

GENERAL NOTES

1. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED

TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.

2. ALL TERMINALS SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.

3. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (NEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE

5. ALL RACEWAYS SHALL BE CONCEALED IN WALLS AND CEILING SPACE . NO SURFACE

MARK ALL EXPOSED JUNCTION BOXES WITH THE PANEL AND CIRCUIT NUMBERS OF THE CIRCUITS ENCLOSED WITHIN THE JUNCTION BOX USING A PERMANENT, FELT TIP

PROVIDE THE REQUIRED AUXILIARY J-BOXES, PULL-BOXES OR HANDHOLES PER CEC 352.26/358.26 TO FACILITATE THE INSTALLATION OF BRANCH CIRCUIT WIRING OR FEEDERS, THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER

BENDS(360 DEGREES TOTAL) BETWEEN PULL POINTS FOR EXAMPLE, CONDUIT

REFERENCED NOTES

DISCONNECT SWITCH CONNECTED TO AC UNIT SHALL BE RATED WITH A MINIMUM

CORRESPONDING PANEL AND CIRCUITS. VERIFY CIRCUIT NUMBER SHOWN ON PLANS WITH MODULAR PANEL SCHEDULES AND MODIFY AS NEEDED. FINAL

CONNECTION FROM FUSED DISCONNECT TO ELECTRICAL PANEL TO BE MADE BY

MODULAR BUILDING MANUFACTURER TO PROVIDE RED LOCK-ON DEVICE IN PANEL

OF 10KAIC. REFER TO MODULAR DRAWINGS AND PANEL SCHEDULES PROVIDED BY

9. SEE SHEET E-201 FOR UNDERGROUND POWER AND DATA CONDUITS AND

PROVIDE 12x12x6 WALL MOUNTED PULL BOX FOR POWER.

PROVIDE 12x12x6 WALL MOUNTED PULL BOX FOR DATA/TEL.

MANUFACTURER FOR CONNECTING DISCONNECT SWITCH TO THE

4. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN INSULATION RATED FOR

RACEWAYS OR WIRE MOLD IS ALLOWED. IF CONCEALING IS NOT FEASIBLE, CONTRACTOR TO CONSULT PROJECT MANAGER AND EOR FOR DIRECTION.

6. TITLE 24 FOR MODULARS TO BE PROVIDED BY MODULAR DESIGNER /

METALLIC COMPONENTS OF THE RACEWAY SYSTEM.

75°/90°C.

MARKER.

MANUFACTURER.

BODIES AND BOXES.

CONDUCTOR SIZES.

MODULAR MANUFACTURER.

'A' FOR FACP DEDICATED RECEPTACLE.

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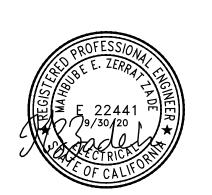
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CONSULTANT

BUDLONG & ASSOCIATES, INC

MEP CONSULTING ENGINEERS

Job No. 19-244



Checked by

Revisions

No. | Date | Description

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(4) 24'x40' MODULAR CLASSROOM BUILDINGS AT CHANNEL ISLANDS HIGH SCHOOL

> 1400 RAIDERS WAY OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

ELECTRICAL
PARTIAL
RECONSTRUCTION
PLAN

2835.020

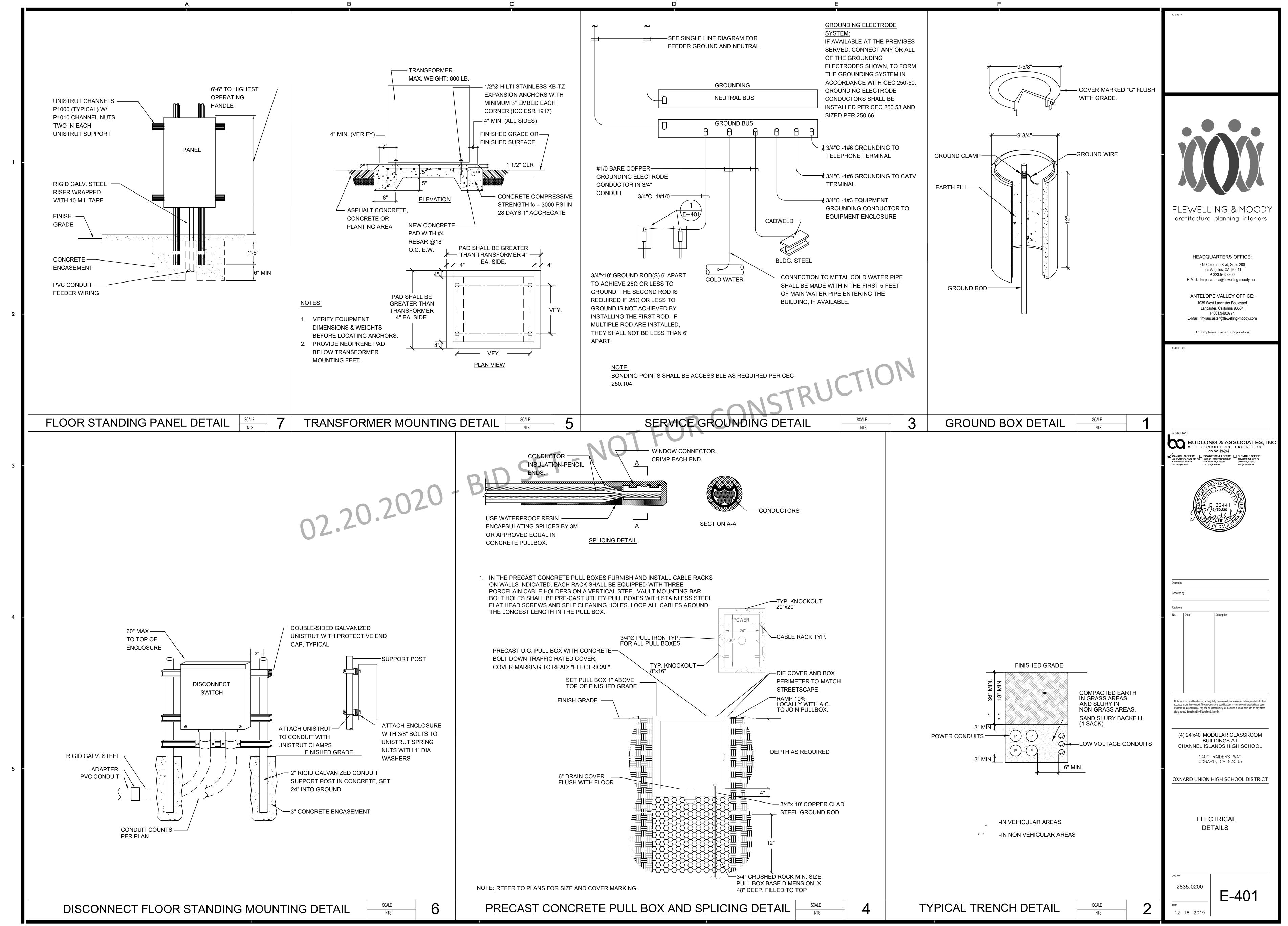
E-301

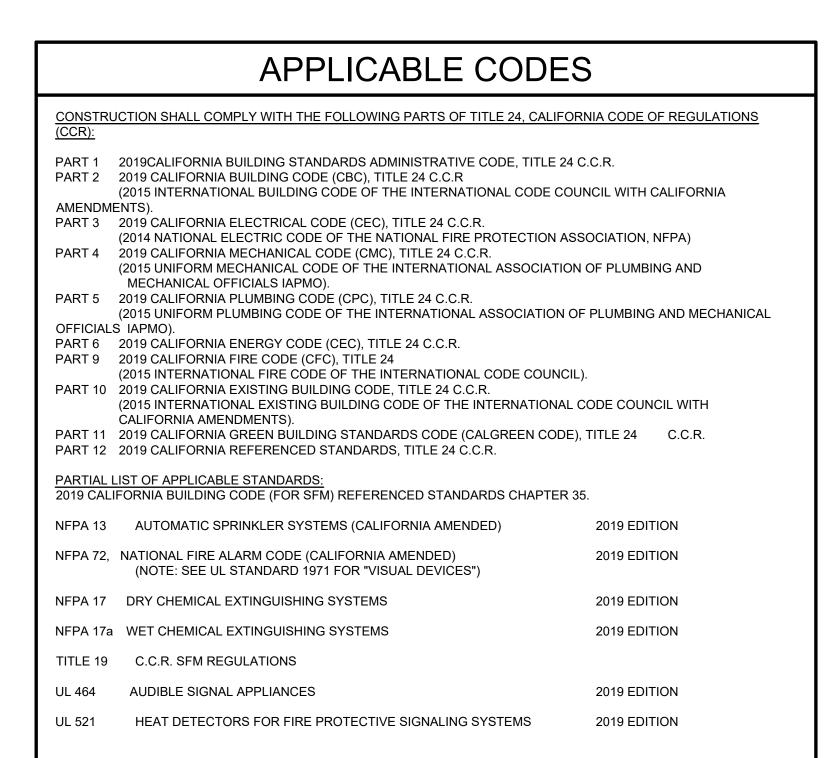
12-18-2019

DSA SUBMITTAL

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

E-301





	ELECTRICAL SYMBOL LIST (NOT ALL SYMBOLS ARE USED ON PLANS)
O	JUNCTION BOX: CEILING MOUNTED, WALL MOUNTED OR IN ACCESSIBLE CEILING SPACE
	BRANCH CIRCUIT FLUSH PANELBOARD
	CONDUIT: UNDERGROUND OR BELOW GRADE. SIZE & NUMBER OF CONDUCTORS AS NOTED.
	CONDUIT: CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS; EXPOSED IN UNFINISHED AREA, 3/4"C. U.O.N.
	3/4"C, 2#12 & 1#12 GROUND U.O.N.
E	"E" INDICATES EXISTING DEVICE TO REMAIN
R	"R" INDICATES EXISTING DEVICE TO BE REMOVED
1 FA-201	SEE DIAGRAM 1, SHEET FA-201

	_						DUCT BING	Oi
				CONDUCTO				
				Me	etric Designat	or (Trade	Size)	
TYPE	CONDUC SIZE (AWG/kd		16 (1/2)	21 (3/4)	27 (1)	35 (1 1/4)	41 (1 1/2)	53 (2)
	14		12	22	35	61	84	138
THHN,	12		9	16	26	45	61	10
THWN, THWN-2	10		5	10	16	28	38	63
	8		3	6	9	16	22	36
	V2400) RACE	EWAY WIR	RE FILL CAP	ACITIES FOI	R POWER	 R	
					NUMBER O	F CONDU	JCTORS (40%	FILL)
''''	WIRE SIZE THHN/THWN		O.D.	(mm)	WITHO DEVICE		WITH 2427 RECEPTA	
14	AWG	0.1	11	(2.8)	57	,	12	
12	AWG	0.13	30	(3.3)	41		9	

DEVICE DESIGNATION								
INITIATING	NOTIFICATION							
L3- 03 DEVICE ADDRESS LOOP NUMBER	A1 - 2 V1- 2 DEVICE NUMBER NOTIFICATION CIRCUIT							

(4.2)

		101
CABLE CALLOUT NOTES	CTRUC	
1/D CABLE TYPE 1/D QUANTITY OF CABLE	- COR COM3	F
WIRE SCHEDULE		AUTOMATIC FIRE ALARM APPROVED SUPERVISING SHALL BE LISTED AS EITH OF FACTORY MUTUAL RE CONTRACT.

		WIRE SCHE	DULE
	CABLE TYPE	WIRE/CABLE DESCRIPTION	CIRCUIT TYPE
	Α	2#12 WEST PENN 60994B	AUDIBLE
	V	2#12 WEST PENN 60994B	VISUAL
	D	2#16 WEST PENN D990	INDOOR DATA LOOP
	D1	2#16 WEST PENN AQ225	OUTDOOR DATA LOOP
1)2	N	2#18 WEST PENN D980	INDOOR NETWORK
	N1	2#18 WEST PENN AQ224	OUTDOOR NETWORK
	М	2#18 WEST PENN D975	ANNUNCIATOR

	FIRE ALARM SYMBOL LIST										
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	C.S.F.M.	MOUNTING	REMARKS					
FACP	FIRE ALARM CONTROL PANEL	GAMEWELL-FCI	E3	7165-1703:0125	SURFACE						
FATC	FIRE ALARM TERMINAL CABINET				SURFACE	PROVIDE 36"H x 36"W x 8"D @ MAIN PNL AND PROVIDE 18"H x 12"W x 6"D AT ALL OTHER LOCATION U.O.N.					
FAPB	FIRE ALARM PULL BOX				SURFACE	PROVIDE 12"x12"x6"D NEMA 3R WEATHERPROOF FIRE ALARM PULLBOX.					
E	PULL STATION (INTERIOR USE) ZONE MONITOR	GAMEWELL-FCI	MS-2 AMM-2	7150-1703:0100 7300-1703:0102	SURFACE						
(SD)	SMOKE DETECTOR /BASE	GAMEWELL-FCI	FCI-ASD-PTL2F/ B224RB	7272-1703:0121	SURFACE						
ΉĎ	HEAT DETECTOR /BASE (CONCEALED) ABOVE CEILING / ATTIC	GAMEWELL-FCI	FCI-ATD-HL2F/B224RB	7270-1703:0115	CONCEALED						
S 75cd	SPEAKER/STROBE(15cd, 30cd, 75cd, 110cd)	GENTEX	SSPK24WLP	7320-0569:0140	SURFACE WALL MTD.						
W.P. ⑤ 【	EXTERIOR SPEAKER	GENTEX	WSSPK	7320-0569:0141	SURFACE WALL MTD.						
ANN	REMOTE ANNUNCIATOR	GAMEWELL-FCI	LCD-E3	7165-1703:0125	SURFACE WALL MTD.						

EXISTING FIRE ALARM SYSTEM IS GAMEWELL-FCI. NEW FIRE ALARM EQUIPMENT AND DEVICES WILL BE COMPATIBLE.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. TELEPHONE LINES FOR FACP UNDER ELECTRICAL

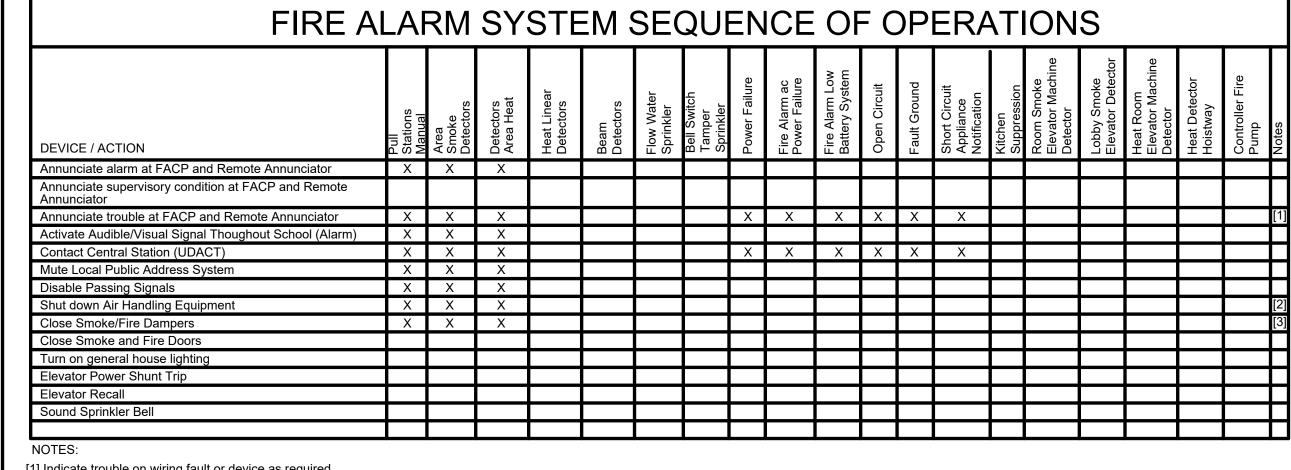
FIRE ALARM MONITORING: SERVICEPRO FIRE PROTECTION, INC. 805-487-1477 C-16# 817889 & E-1375 ACCOUNT NO. TCC-3001

EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY IN SERVICE, UNIMPAIRED, UNTIL NEW SYSTEM HAS BEEN ACCEPTED. FIRE WATCH REQUIRED FOR IMPAIRMENT OF SYSTEM.

CFC 2019, CHAPTER 9, SECTION 901.7 FIRE WATCH PROVISION FOR IMPAIRMENT TO LIFE SAFETY SYSTEM.

SCOPE OF WORK

PROVIDE A NETWORKED FIRE ALARM SYSTEM FOR FOUR (4) NEW MODULAR CLASSROOMS VIA SMOKE DETECTORS, HEAT DETECTORS, AND VISUAL/AUDIBLE EVAC DEVICES. CONNECT TO EXISTING FIRE ALARM SYSTEM INSTALLED UNDER DSA # 03 - 103030



[1] Indicate trouble on wiring fault or device as required. [2] Shut down only air handler equipment in the building or area where alarm condition occurs.
[3] Close only smoke and fire dampers in the building or area where alarm condition occurs.

	FIRE ALARM SHEET INDEX							
NUMBER	SHEET TITLE							
FA-101	FIRE ALARM FRONT SHEET							
FA-102	FIRE ALARM RISER DIAGRAM AND CALCULATIONS							
FA-201	FIRE ALARM SITE PLAN							
FA-301	FIRE ALARM ENLARGED PARTIAL RECONSTRUCTION PLAN							
FA-401	FIRE ALARM DIAGRAMS							

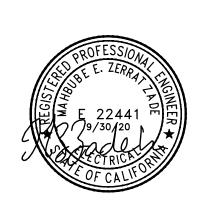
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BUDLONG & ASSOCIATES, INC
MEP CONSULTING ENGINEERS
Job No. 19-244



Revisions No. Date Description	Drawn I	ру	
	Checke	d by	
No. Date Description	Revisio	ns	
	No.	Date	Description

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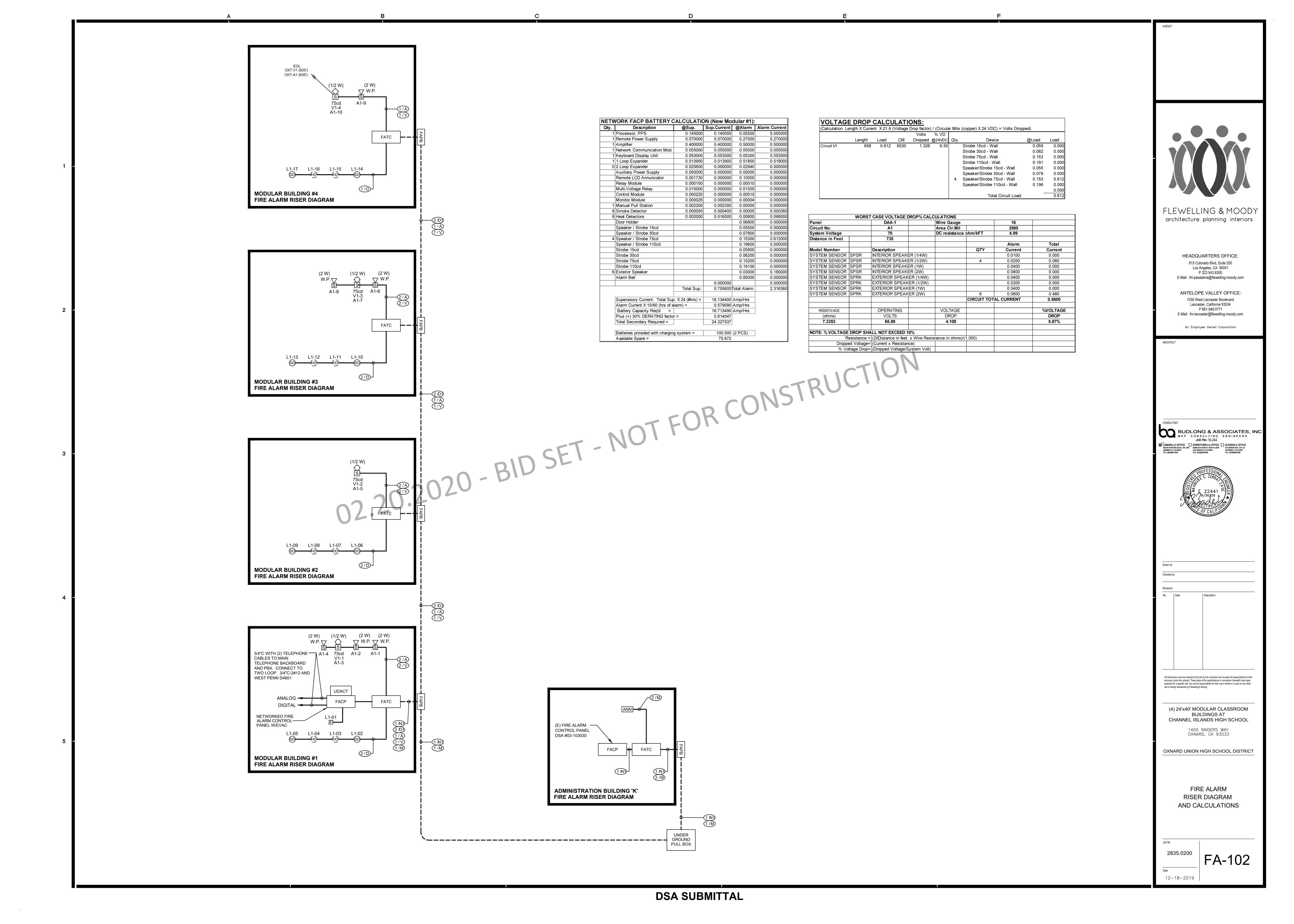
OXNARD, CA 93033

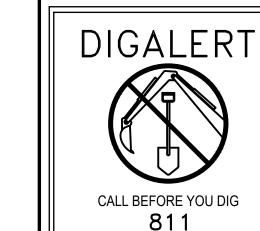
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FIRE ALARM FRONT SHEET

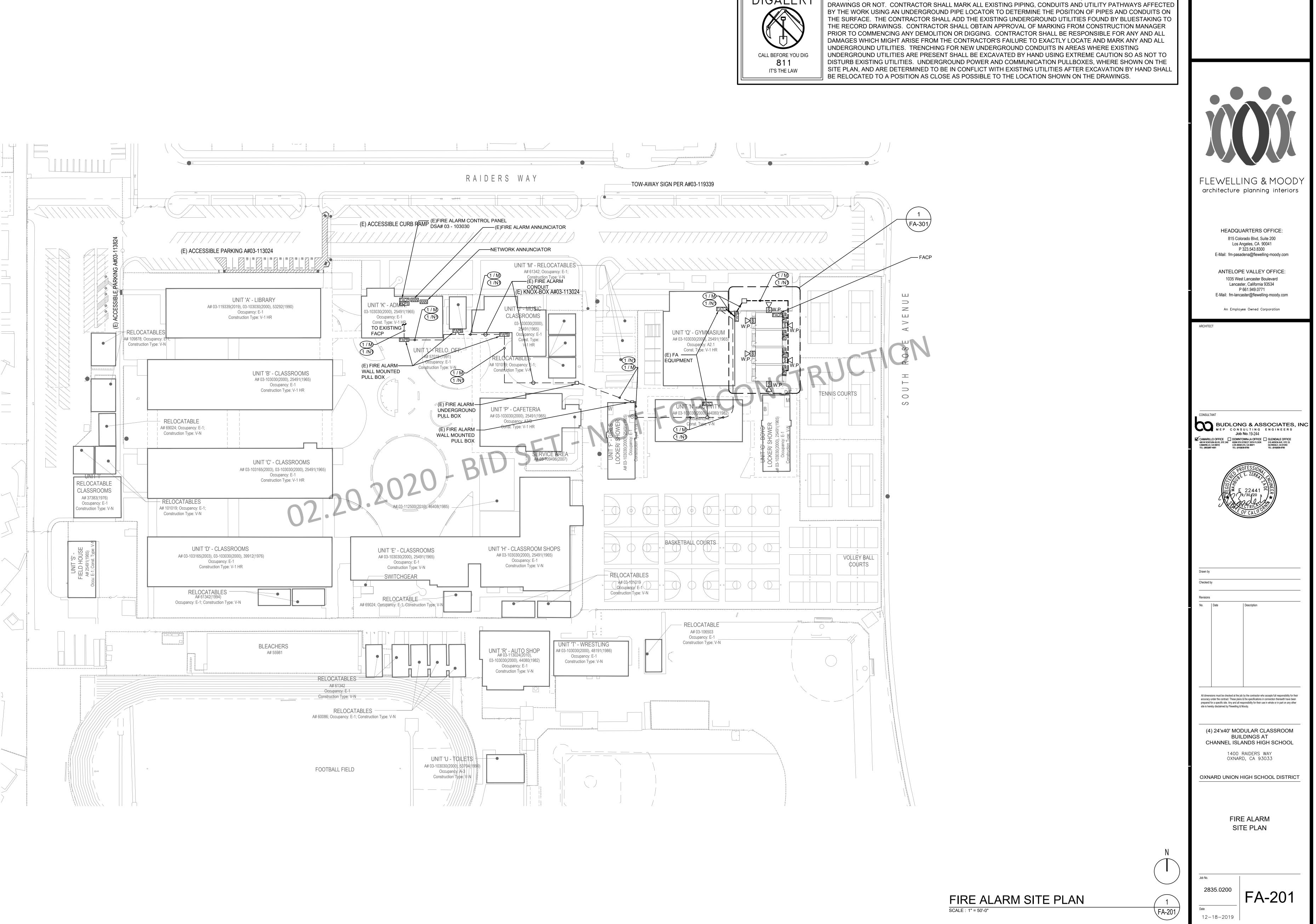
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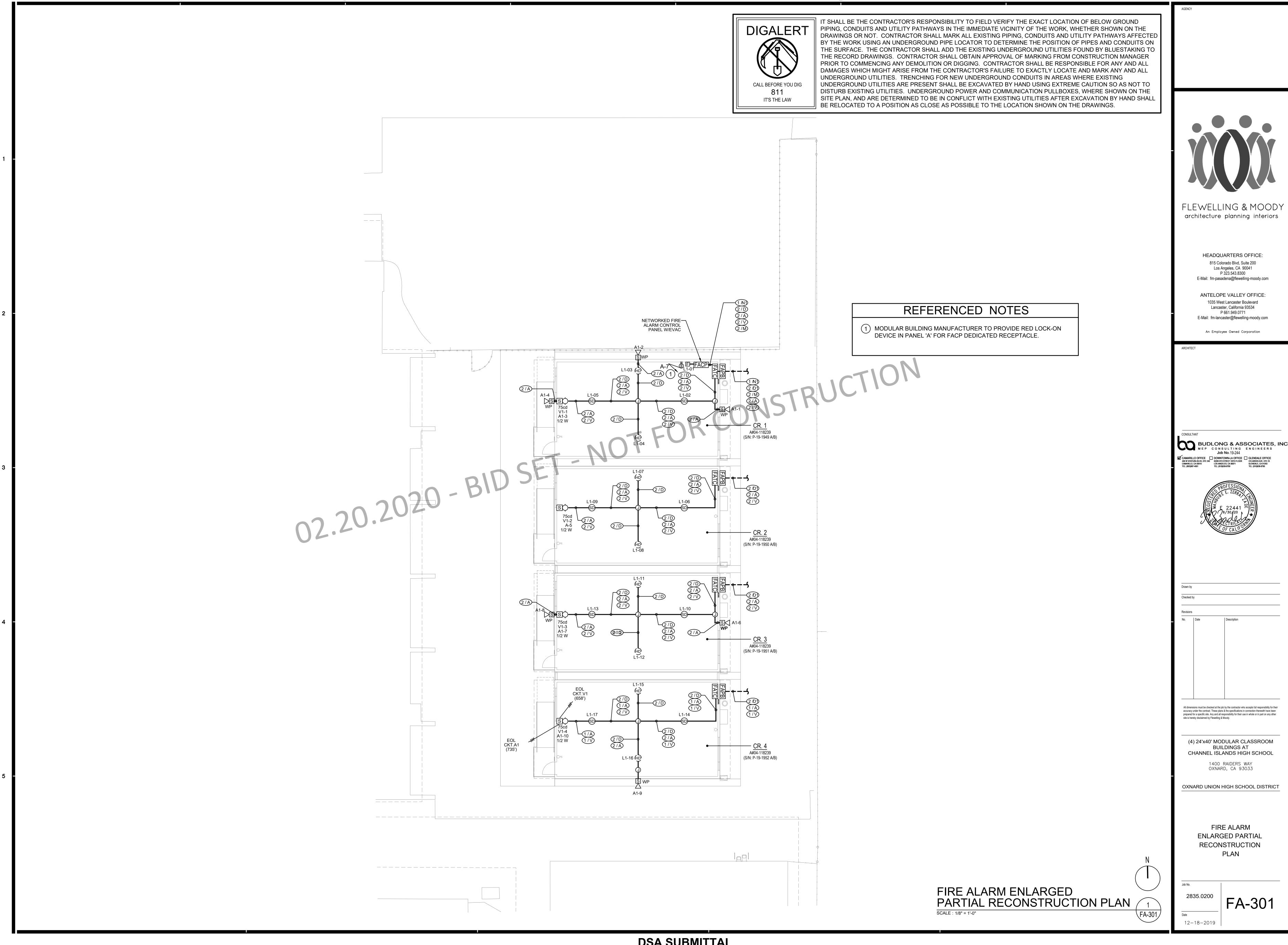
FA-101

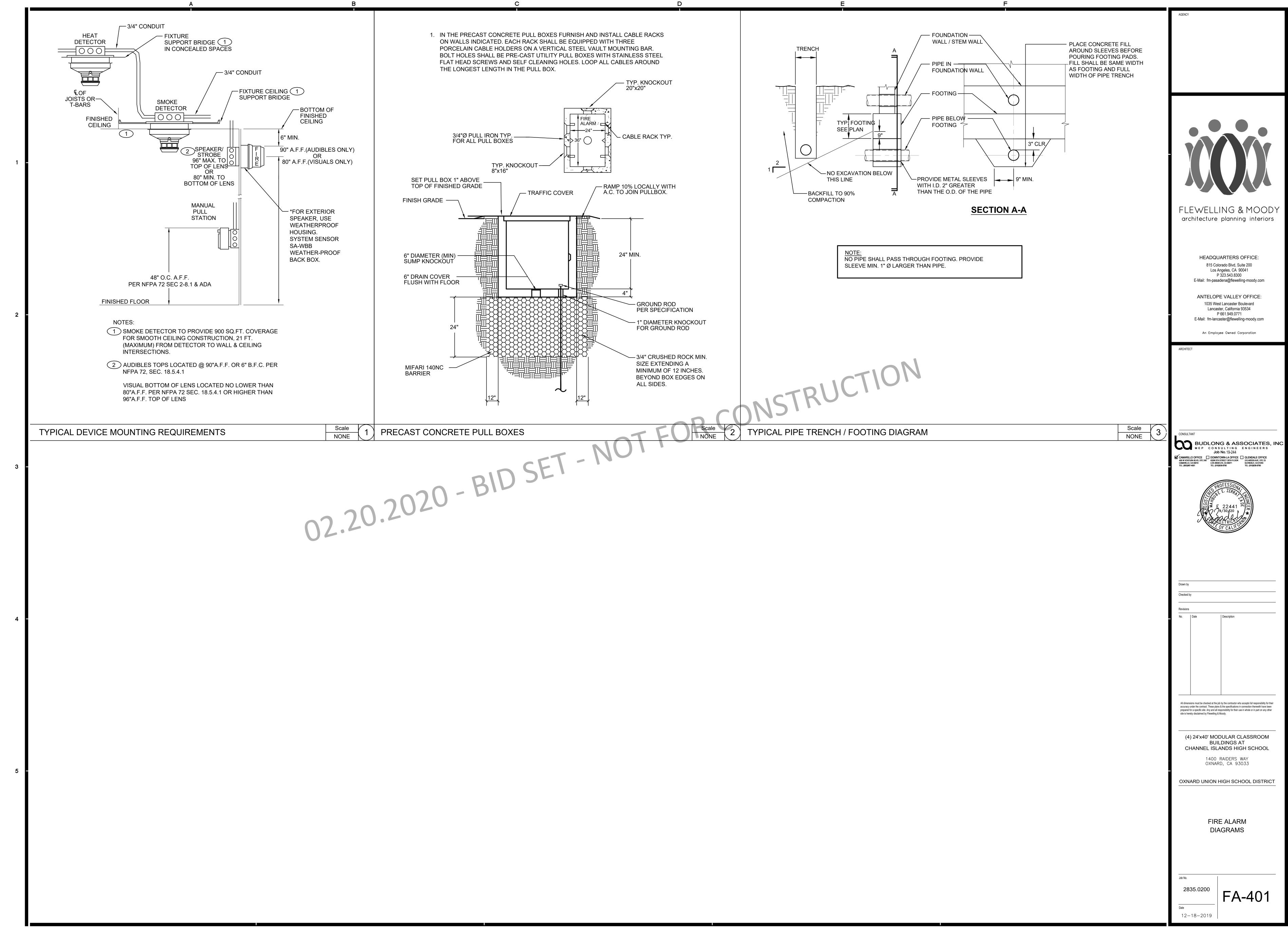




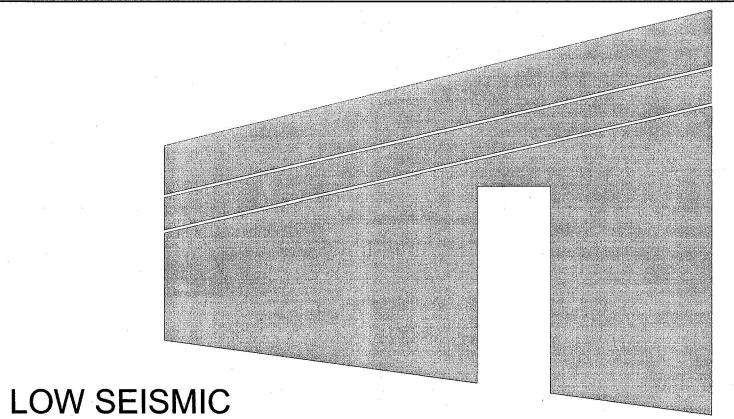
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF BELOW GROUND







Ch	Sheet List	Sheet List
Sheet Numb		Sheet Number Sheet Name
E2.3 E2.1	120'x40' T24 CZ 16 (WALL AC) 120'x40' T24 CZ 16 (WALL AC)	Under Separate Cover FS-1 FIRE SPRINKLER DESIGN 1
E2.2 Cover	120'x40' T24 CZ 16 (WALL AC)	F3-2 FIRE SPRINKLER DESIGN 2 F1.10 WOOD FOUNDATION NOTES SCHED FOR BLDG W/50 + 15
A0.0 A0.0.1	COVER SHEET PROJECT OPTIONS SCHEDULE	F1.11 WOOD FOUNDATION PLAN 24 x 40 BLDG W/50 + 15
A0.1 A0.2	TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES, SIGNAGE AND SYMBOLS	F1.40 WOOD FOUNDATION DETAILS SR0 MODULE PLAN & NOTES
A0.3 A0.4	DSA-103 T&I CONCRETE FLOORS DSA-103 T&I PLYWOOD FLOORS	SR1 RAMP AND LANDING PLAN SR2 RAMP AND LANDING FRAMING
A0.5	CALGREEN SPEC'S	SR3 FOUNDATION PLAN SR4 RAMP AND LANDING / STAIR FRAMING
		SR5 RAMP DETAILS SR6 RAMP DETAILS
Architectural		SR7 STAIR CONN
A1.0 A1.1	24x40 FLOOR PLAN 36x40 FLOOR PLAN	
A1.2 A2.1	48×40 FLOOR PLAN ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)	
A2.2 A2.3	ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH) ARCHITECTURAL DETAILS (MTL FRAMING SHTG FINISH)	
A2.4 A2.5	ARCHITECTURAL DETAILS (MTL FRAMING PLASTER FINISH) ARCHITECTURAL DETAILS (1-HR WOOD FRAMING SHTG FINISH)	
A2.6	ARCHITECTURAL DETAILS (1-HR WOOD FRAMING PLASTER FINISH)	
A2.7	ARCHITECTURAL DETAILS (1-HR MTL FRAMING SHTG FINISH) ARCHITECTURAL DETAILS (1-HR MTL FRAMING PLASTER FINISH)	
A2.8 A2.9	ARCHITECTURAL DETAILS (FLOOR)	
A3.0 A3.1	ADDITIONAL FIRE RATING DETAILS AND NOTES SINGLE OCC. BATHROOM	DECION CODEO
A3.2 A3.2.1	RCP CEILING NOTES	DESIGN CODES
A3.3 A3.4	CEILING DETAILS (T-GRID) CEILING DETAILS (CYP BOARD)	PARTIAL LIST OF APPLICABLE CODES AS OF February 28, 2017
A4.0.1 A4.0.2	ROOF PLAN MONO SLOPE (STANDING SEAM) ROOF PLAN DUAL SLOPE (STANDING SEAM)	2016 Administrative Code (CAC), Part 1, Title 24 C.C.R. * 2016 California Building Code (CBC), Part 2, Title 24 C.C.R.
A4.1	ROOF DETAILS (STANDING SEAM)	(2015 International Building Code with 2016 California Amendments) 2016 California Electrical Code (CEC), Part 3, Title 24 C.C.R.
44.2.1 44.2.2	ROOF PLAN MONO SLOPE (EPDM) ROOF PLAN DUAL SLOPE (EPDM)	(2014 National Electrical Code with 2016 California Amendments) 2016 California Mechanical Code (CMC), Part 4, Tiltle 24 C.C.R. (2015 Uniform Mechanical Code with 2016 California Amendments)
A4.3 A4.4.1	ROOF DETAILS (EPDM) ROOF PLAN W PARAPET MONO SLOPE (EPDM)	(2015 Uniform Mechanical Code with 2016 California Amendments) 2016 California Plumbing Code (CPC), Part 5, Title 24 C.C.R. (2015 Uniform Plumbing Code with 2016 California Amendments)
A4.5 A5.0	ARCHITECTURAL DETAILS (PARAPET) SIDEWALL ELEVATION	2016 California Energy Code (CEC), Part 6, Title 24 C.C.R 2016 California Fire Code, Part 9, Title 24 C.C.R.
A5.1 A5.2	ENDWALL ELEVATIONS INTERIOR ELEVATIONS	(2015 International Fire Code with 2016 California Amendments) 2016 California Green Building Standards Code, Part 11, Title 24 C.C.R.
A6.0 A6.0.1	SECTION - STANDING SEAM (MONO) SECTION - STANDING SEAM (DUAL)	2016 California Referenced Standards, Part 12, Title 24 C.C.R Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.
A6.1	SECTION - EPDM (DUAL)	2013 ASME A17.1 (W/ CSA B44-13) Safety Code for Elevators and Escalators
A6.2 A6.3	SECTION SECTION - EPDM (MONO)	PARTIAL LIST OF APPLICABLE STANDARDS
A7.1	ADDITIONAL OPTION DETAILS ADDITIONAL OPTION DETAILS	NFPA 13 Automatic Sprinkler Systems 201 NFPA 14 Standpipe Systems 201
A7.2 MEP	ADDITIONAL OPTION DETAILS	NFPA 17 Dry Chemical Extinguishing Systems 201 NFPA 17a Wet Chemical Systems 201
E1.0 E1.1	ELECTRICAL PLAN 24x40 ELECTRICAL SCHEDULES 24x40	NFPA 20 Stationary Pumps 201 NFPA 22 Water Tanks for Private Fire Protection 201
E1.2	ELECTRICAL PLAN 36x40 ELECTRICAL SCHEDULE 36x40	NFPA 24 Private Fire Mains 201 NFPA 72 National Fire Alarm Code 201
E1.4 E1.5	ELECTRICAL PLAN 48×40	NFPA 80 Fire Doors and Other Opening Protectives 201 NFPA 92 Standard for Smoke Control Systems 201 NFPA 253 Critical Radiant Flux of Floor Covering Systems 201
M0.1	MISCELLANEOUS NOTES & DETAILS	NFPA 2001 Clean Agent Fire Extinguishing Systems 201 ICC 300 ICC Standards on Bleachers, Folding and Telescoping 201
M2.1 M2.2	120'x40' T24 CZ 16 (WALL AC) 120'x40' T24 CZ 16 (WALL AC)	Seating and Grand stands UL 300 Fire Testing of Fire Extinguishing System for Protection 200
M2.3 M2.4	120'x40' T24 CZ 16 (WALL AC) 120'x40' T24 CZ 16 (WALL AC)	Of Restaurant Cooking Areas UL 464 Audible Signal Appliances 200
M5.1 M5.2	MECHANICAL CEILING PLAN 24x40 MECHANICAL ROOF MOUNT 24x40	UL 521 Heat Detectors for Fire Protective Signaling Systems 199
M6.1 M6.2	MECHANICAL CEILING PLAN 36x40 MECHANICAL ROOF MOUNT 36x40	Reference Code Section for NFPA Standards - 2016 CBC (SFM) Chapter 35. See Chapte 35 for State of California amendments to NFPA Standards.
M7.1	MECHANICAL CEILING PLAN 48x40 MECHANICAL ROOF MOUNT 48x40	* California Administrative Code, Part 1, Chapter 10, Administrative Regulations for the
P1.0 Foundation	TYPICAL PLUMBING DETAILS	California Energy Commission (CEC).
F1.10	WOOD FOUNDATION DI AN 24-40 PL DO W/ 50+15	ACOUSTICAL CONTROL (EXTERIOR) REQUIREMENTS
F1.11 F1.12	WOOD FOUNDATION PLAN 24x40 BLDG W/ 50+15 WOOD FOUNDATION 36x40 BLDG W/ 50+15	Per the 2016 CCR, Title 24, Part 11 (CALGREEN CODE) Section 5.507.4. This pre-check is not allowed to be placed: - Within the 65 CNEL noise contour of a airport;
F1.13 F1.14	WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15 MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 100 PSF	 Within the 65 CNEL roise contour of a freeway, expressway, railroad, or industrial guideway;
F1.20 F1.21	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF— WOOD FOUNDATION PLAN 24x40 BLDG W/ 100 PSF—	- Or in a location exposed to a noise level of 65 dB Leq-1Hr, during any hour of operation
F1.22 F1.23	WOOD FOUDATION PLAN 36x40 BLDG W/ 100 PSF— WOOD FOUNDATION PLAN 48x40 BLDG W/ 100 PSF—	CODE ADOPTED YEAR ITEM
F1.24	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 100 PSF WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 150 PSF	NFPA 13 2016 AUTOMATIC SPRINKLER SYSTEMS NFPA 72 2016 NATIONAL FIRE ALARM CODE w/
F1.31	WOOD FOUNDATION PLAN 24X40 BLDG W/ 150 PSF WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF	CALIFORNIA AMENDMENTS
F1.32 F1.33	WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF	NOTE: VISUAL DEVICES PER UL STANDARD 1971 THIS PC HAS A "PRE-DESIGNED" FIRE SPRINKLER SYSTEM INSTALLED.
F1.34 F1.40	MODLINE "B" W/ EXTERIOR WALL BACK-TO-BACK 150 PSF— WOOD FOUNDATION DETAILS——	SEE BELOW FOR SITE REQUIREMENTS BY OWNER
F2.10 F2.20	CONCRETE FOUNDATION PLAN CONCRETE FOUNDATION DETAILS	IT IS THE OWNERS RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GF AND PRESSURE (PSI)CAN BE ATTAINED AT THE BASE OF THE RISER AT T
F2.22 F2.23	CONCRETE FOUNDATION DETAILS CONCRETE FOUNDATION DETAILS	PROPOSED SITE FOR EACH PROPOSED BUILDING. THIS PC REQUIRES
Structural S0.1	STRUCTURAL GEN NOTES	MINIMUM GPM : 250 MINIMUM PSI : 35
S1.0.1	WD SHTH'G FLR FRM'G PLAN (50+15 PSF)	FAILURE TO ATTAIN THE MIN GPM/PSI MAY NECESSITATE THE INSTALLAT
S1.0.2 S1.0.3	WD SHTH'G FLR FRM'G PLAN (100 PSF) WD SHTH'G FLR FRM'G PLAN (150 PSF)	OF ONE OR MORE OF THE FOLLOWING ITEMS/EQUIPMENTS.
\$1.1.1 \$1.1.2	CONC FLR FRM'G PLAN (50+15 PSF) CONC FLR FRM'G PLAN (100 PSF)	A. WATER TANK 1. FIRE PUMP 2. BACK UP FIRE SUPPLY
S1.1.3 S1.2	CONC FLR FRM'G PLAN (150 PSF) STRUCTURAL DETAILS (FLOOR)	B. ADDITIONAL UNDERGROUND FIRE LINE TAPS C. ALL OR ANY COMBINATION OF THE ABOVE OR ANY OTHERS AS REQUI
S3.0.1 S3.0.2	MONO SLOPE ROOF FRM'G PLAN DUAL SLOPE ROOF FRM'G PLAN	TO ENSURE PROPER OPERATION OF THE AFSS
S3.1	STRUCTURAL DETAILS (ROOF)	THE FOLLOWING MUST BE SUPPLIED TO DSA AT THE TIME OF SUBMITTAI WITH THE SITE PLAN FOR EACH PROPOSED BUILDING WITH AN AFSS.
S3.2 S3.3	ROOF DETAILS (SOFFIT/PARAPET) ROOF PERIMETER TRUSS	 MINIMUM GPM/PSI REQUIRED WATER FLOW DATA (SEE DSA AFFS GUIDELINES)
S4.0 S4.1	WD WALL FRAMING ELEVATIONS WD WALL FRAMING ELEVATIONS	3. SITE PLAN SHOWING THE LOCATION OF THE "FLOW" AND "TEST" HYDRANTS (FULLY DIMENSIONED)
S4.2 S4.3	WALL DETAILS (WOOD FRAMING) WALL DETAILS (MTL FRAMING)	4. ALL (NEW AND EXISTING) UNDERGROUND FIRE LINES/PIPING -LEN AND SIZE SHOWING LOCATION AND METHOD OF UNDERGROUND PIPING RESTRAINTS TO TEST HYDRANT
S4.4 S4.5	TYP FRAMING FRAMING SCHEDULES	5. LOCATION OF ALL (NEW AND EXISTING); A. FIRE HYDRANTS
S5.0 S5.1	LONG. SECTION - (MONO) LONG SECTION - (DUAL)	B. POST INDICATORS C. FIRE DEPARTMENT CONNECTIONS
SR0	MODULE PLAN AND NOTES RAMP LANDING	D. PRESSURE REDUCERS E. BACK-FLOW PREVENTION/DETECTOR CHECK VALVES
SR1 SR2	LANDING FRAME	F. OTHER FIRE RELATED ITEM/EQUIPMENTS APPLICABLE 6. HYDRAULIC CALCULATIONS FOR THE UNDERGROUND PIPING WIT
SR3 SR4	FOUNDATION PLAN RAMP ELEVATION	THE AVAILABLE GPM/PSI AT THE BASE OF EACH AFSS RISER (MUS MEET OR EXCEED MIN REQ'T) 7 ANY CHANGES TO THE CONFIGURATION (WALLS CEILINGS
SR5 SR6	RAMP DETAILS RAMP DETAILS	7. ANY CHANGES TO THE CONFIGURATION (WALLS,CEILINGS, CONSTRUCTION TYPE) OR OCCUPANCY OF THE PC WILL NECESSITATE ADDITIONAL/REVISED HYDRAULIC CALCULATIONS
SR7	STAIR CONN	



PC#

04-116504

24' x 40' EXPANDABLE TO 120' x 40'

STKP # 244

		4
NFPA 13	Automatic Sprinkler Systems	2016 Edition
NFPA 14	Standpipe Systems	2013 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2013 Edition
NFPA 17a	Wet Chemical Systems	2013 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 22	Water Tanks for Private Fire Protection	2013 Edition
NFPA 24	Private Fire Mains	2016 Edition
NFPA 72	National Fire Alarm Code	2016 Edition
NFPA 80	Fire Doors and Other Opening Protectives	2016 Edition
NFPA 92	Standard for Smoke Control Systems	2015 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2015 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition
ICC 300	ICC Standards on Bleachers, Folding and Telescoping	2012 Edition
	Seating and Grand stands	
UL 300	Fire Testing of Fire Extinguishing System for Protection	2005 Edition
	Of Restaurant Cooking Areas	
UL 464	Audible Signal Appliances	2003 Edition
111 521	Heat Detectors for Fire Protective Signaling Systems	1999 Edition

source

GALVANIZED GENERAL CONTRACTOR GALVANIZED IRON BOND BEAM
BOTTOM CHORI
BOARD
BEGIN (ING)
BELOW
BITUMINOUS
BED JOINT
BUILDING
BLOCK ('G, ING)
BELOW
BEAM
BENCH MARK GLASS, GLAZING GALLONS PER MINUTE GYPSUM PLASTER GRAVEL, GRANULAR GRADE, GRADING GYPSUM WALLBOARD GYPSUM BOARD BRIDGING BEARING BRICK BRONZE BOTH SIDES HARDBOARD HOLLOW CORE HEAVY DUTY HARDENER BETWEEN BEVELED HEADER HARDWARE HARDWOOD HIGH EARLY STRENGTH CEMENT HANDHOLE HEADJOINT CADMIUM CAMBER CENTER TO CENTER HOOK HOLLOW METAL HORIZONTAL HIGH POINT CEMENT CUBIC FOOT CHAMFER CAST IRON HEADED STUD ANCHOR CAST-IN-PLACE CIRCLE SCHED SDL SDS CONSTRUCTION JOINT CONTROL JOINT CAULK, ('G, ING)

DESIGN CRITERIA

PC NOT USABLE

IN WUI AREAS

KIP (S) KIPS PER SQUARE INCH LONG LENGTH CONCRETE CONSTRUCT (ION) (ED) LAMINATE (D) POUND, LAG BOLT LABEL CONTINUE, CONTINUOUS CONTRACTOR LIGHT CONTROL DEVELOPMENT LENGHT COMPLETE PENETRATION LINEAR FOOT LEFT HAND LIVE LOAD LONG LEG HORIZONTAL COUNTERSINK LONG LEG VERTICAL

DEEP, DEPTH DOUBLE DEFLECTION

DIAGONAL DIAMETER DIMENSION (ED)

DEAD LOAD

DOWEL (ED)

DEMOLISH, DEMOLITION

MODULUS OF ELASTICITY

EACH EXPANSION BOLT

EXPANSION JOINT

ELECTRIC (AL)

EXPANSION BOLT

EXCAVATE (D) (ION)

EXPANSION

FASTENER

EXPANDED METAL PLATE

EXTRA STRONG EXTERIOR, EXTERNAL

FURNISHED BY OTHERS FLOOR DRAIN

FLATHEAD WOOD SCREW FINISH (ED)

LINTEL LEVEL (ING) LIGHT WEIGHT LIGHT WEIGHT CONCRETE METER (S) MOMENT MAXIMUM MACHINE BOLT MOMENT CONNECTION MECHANICAL MECHANICAL, ELECTRICAL, & PLUMBING METAL FLOOR DECKING MID. MIDDLE MINIMUM, MINUTE MISCELLANEOUS

MEMBRANE MODEL MOVABLE MATERIAL NATURAL NAILABLE NONMETALLIC NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD OVALHEAD MACHINE SCREW OVALHEAD WOOD SCREW OPPOSITE HAND FLATHEAD MACHINE SCREW FIRE HOSE STATION

PARALLEL
PARTICLE BOARD
PRECAST CONCRETE
POUNDS PER CUBIC FOOT
PIECES
PERFORATE (D)
PERIMETER
PREFABRICATE (D)
POUNDS PER SQUARE FOOT
PLATE
PLUMBING
POUNDS PER LINEAR FOOT
PARALLAM
PLYWOOD
PAVEMENT
PANEL
POST TENSION (D)
PRETENSIONED
POLYETHYLENE
PAIR
PROJECT
PRESTRESSED CONCRETE
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH
POINT
PRESSURE TREATED
POST-TENSIONED CONCRETE
PAINTED

PAINTED POLYVINYL CHLORIDE PAVEMENT QUANTITY RADIUS, RISER RADIUS ROOF DRAIN RETANGULAR REFERENCE, REFER TO REFORCE (D) (ING) REMOVE REQUIRED REQUIREMENTS REVISION, REVISED ROOFING REFLECT (ED)(IVE)(OR)

ROOM ROUGH OPENING FIRE RETARDANT TREATED RUBBER TILE REVERSE SIDE RIVET SOUTH SOLID CORE SCHEDULE SUPERIMPOSED DEAD LOAD SELF DRILL SCREW STRUCTURAL ENGINEER

SELF-DRILL, SELF-TAP'G SCREW SECTION SQUARE FOOT, SQUARE FEET SQUARE INCH
SIMILAR
SLOPE
SEALANT
SHEET METAL SCREW
SLAB ON GRADE SPACE, (ING) SPACER SPECIFICATION (S) STAINLESS STEEL STAGGERED

SSTL STG STD STL STOR STRUCT STANDARD STEEL STORAGE STRUCTURE STRUCTURAL SYMETRICAL, SYMETRY TOP AND BOTTOM TONGUE AND GROOVE TOP CHORD TESION, TENSILE TEMPORARY, TEMPERATURE
THREAD (ED)
THICK (NESS)
TEMPERED
TOP OF TOTAL LOAD

TYPICAL UNDERCUT UNDERGROUND UNDEREWRITERS LABORATORY UNFINISHED UNLESS NOTED OTHERWISE SHEAR FORCE, VELOCITY VAPOR BARRIER VERIFY VERTICAL VERIFY IN FIELD

V-JOINTED VENEER VENT THROUGH ROOF VNR V.T.R. WEST, WIDTH, WIDE, WIDE FLANGE WITH WOOD WROUGHT IRON WIRE MESH WATERPROFFING WATER REPELLENT WORKING POINT WATER STOP WALL TO WALL (W/W) WELDED WIRE FABRIC

P-19-1913 A/B **THRU** P-19-2012 A/B (100) 24 X 40

P-19-2013 A/B/C/D **THRU** P-19-2027 A/B/C/D (15) 48 X 40

CONSTRUCTION OF CLASSROOM BUILDING (RELOCATABLE)

NUMBER OF STORIES: 1 OCCUPANCY: CONSTRUCTION TYPE: FLOOR LIVE LOAD: 50+15 PSF PARTITION

BUILDING AREA

100 PSF | 150 PSF FLOOR DEAD LOAD: WOOD FLOOR - 11 PSF CONC. FLOOR - 33 PSF ROOF LIVE LOAD: 20 PSF

ROOF SNOW LOAD: 0 PSF **ROOF DEAD LOAD:** 18.5 PSF (INCLUDES SPRINKLERS & 3PSF SOLAR PANEL) RAMPLIVE LOAD: 100PSF This PC has not been designed to accommodate flood loads. If located in a FLOOD DESIGN: zone other than X, a letter stamped and signed from a soils engineer is needed to validate the allowable soil values assumed in this PC are still applicable.

WITH OVERHANG (5' @ EA. END)

ALLOWABLE AREA □ 24x40 960 sf 24x40 1200 sf =9,500 sf ☐ 36x40 1440 sf ☐ 36x40 1800 sf **ACTUAL AREA** ☐ 48x40 1920 sf ☐ 48x40 2400 sf =4,800 SF ☐ 60x40 3000 sf ☐ 60x40 2400 sf ☐ 72x40 3600 sf ☐ 72x40 2880 sf □ 84x40 4200 sf ☐ 84x40 3360 sf ☐ 96x40 3840 sf □ 96x40 4800 sf □ 108x40 4320 sf* □ 108x40 5400 sf* □ 120x40 4800 sf* □ 120x40 6000 sf*

NO OVERHANG

*Geo-hazard site specific report must be provided and approved by CGS for building area more than 4000 sf WOOD FTG -1000PSF CONCRETE FTG 1500PSF ALLOWABLE SOIL PRESSURE: FOUNDATION: WOOD CONCRETE
PC IS DESIGNED BASED ON A PINNED CONNECTION TO THE FOUNDATION.

l = 1

Ss = 2.14

S1 = 1.99

CEC CLIMATE ZONE: 1-16 WIND DESIGN

ILTIMATE DESIGN SPEED: Vult = 130 mph, 3 sec GUST, Kzt = 1.0 **RISK CATEGORY: EXPOSURE:**

EARTHQUAKE DESIGN

SITE CLASS:

RISK CATEGORY: SEISMIC IMPORTANCE FACTOR: MAPPED SPECTRAL RESPONSE:

SEISMIC DESIGN CATEGORY: Note: For SDC (E) site specific motion analysis is not required if not in a seismic hazard zone and/or meets other exemptions in DSA IR A-4 SHORT/LONG PERIOD SITE COEFFICIENT: Fa = 1.0, Fu = 1.5 **DEISIGN SPECTRAL RESPONSE:** (Sds=1.426 for other parameters non-structural component anchorage no-cap) **RESPONSE COEFFICIENT, Cs:** BASIC SEISMIC FORCE-RESISTING SYS: ANALYSIS PROCEDURE:

Sds = 1.00 (for building), Sd1 = 1.99, OMF, R = 3.5**EQUIVALENT LATERAL FORCE** WOOD FLOOR, LL ≤ 100, BASE SHEAR= 20.04 kip BASE SHEAR PER 24X40 MODULE: WOOD FLOOR, LL = 150, BASE SHEAR= 26.71 kip CONC. FLOOR, LL ≤ 100, BASE SHEAR= 26.07 kip

CONC. FLOOR, LL = 150, BASE SHEAR= 36.36 kip

ARCHITECT OF RECORD SHALL PROVIDE FIRE ALARM DRAWINGS WITH SITE ADAPTED PROJECTS. FIRE ALARM IS NOT PART OF THIS PC. THIS PC HAS BEEN STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM ALLOWABLE AREA IS BASED ON 10'-0" SETBACK FROM ASSUMED LINE

PC DESIGNED AS A SINGLE-STORY MODULAR BUILDING SEE STRUCTURAL FOR SOIL TYPES & BEARING STRENGTHS WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USAGE

EXTERIOR PROJECTIONS TO BE FIRE PROTECTED WHERE REQUIRED SEE A0.5 AND ENGERY CALC M-SHEETS FOR REQUIRED ENVELOPE ASSEMBLIES & HVAC SYSTEMS

ALL SPECIFICATIONS BASED ON PERFORMANCE AND ABLE TO BE SUBSTITUTED BY "EQUAL" PRODUCTS PENDING APPROVAL BY D.S.A. BUILDINGS TO COMPLY WITH WILDLAND URBAN INTERFACE GUIDELINES WHERE APPLICABLE

BUILDING AND SITE FEATURES MUST COMPLY WITH CALGREEN CODE FOR ITS SPECIFIC LOCATION WHEN ADAPTED FOR SITE-USE SHOULD THIS P.C. CLASSROOM BE DESIGNED TO CONNECT TO ANOTHER P.C. CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE WALL AND FLOOR-CEILING ASSEMBLY MUST MEET A MINIMUM STC OF

40 PER CALGREEN

11777 BERNARDO PLAZA COURT, SUITE 105 SAN DIEGO, GA 92128

PROFESSIONAL STAMP



THE PLANS, IDEAS & DESIGNS SHOWN ON **R&S TAVARES ASSOCIATES, INC. DEVISED** SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE O IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S



ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: PC-128 IDENTIFICATION STAMP **DIVISION OF THE STATE ARCHITECT** 04 - 116504

AC RM FLS EA SSR KER

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

> PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

555: G.CHM ELS: P. FERRER Acs: R. Mullen

PROJECT SPECIFIC STATE AGENCY APPROVAL **IDENTIFICATION STAMP** DIV. OF THE STATE ARCHITECT 04 118239

ACSZLELS PESS A DATE MAR 0 7 2019

Revision Schedule Description

COVER SHEET

PROJECT NUMBER 17016A

DRAWN BY rMc/SC

CHECKED BY JA/RT

DATE 2018/03/08

SHEET NO.

SHEET OF SHEETS

ARCHITECTURAL

6 General Arch 1/4" = 1'-0"	แซบเนโ	uı Ol		ËNER/	AL ARCH	HITECT	URAL S	SHEETS						Sheet
COVER SHEET PROJECT OPTIONS SCHEDULE												A0.0 A0.0.1		
YPICAL KEY PLA					GEN NO	TES	40.000			N .	2	W. S. U. 100		A0.0.1
SIGNAGE AND SY			100	,				X						A0.2
OSA-103 T&I CON									4		, , , , , , , , , , , , , , , , , , ,	3 77 6 347300		A0.3
DSA-103 T&I CON		E FL	00	RS	* 0	A. (1.50) 1980 (1990 1990 1990 1990 1990 1990 1990 19								A0.4 A0.5
CALGREEN SPEC'S CALGREEN SHEET										A0.5				
CALGREEN SHEE					:								s .	A0.7
5 Floor Plan De	etails			ARC	HITECTI	JRAL F	LOOR	PLANS			×			Sheet
<u> </u>		ý.	-	A 184 1865	r Plan - 2			1 17 11 10		5				A1.0
A 1 1001 1 14113					r Plan - 3	10000 00000 0						2	ř.	A1.1
]		r Plan - 4	8'x40'			3					A1.2
1 Arch Floor Fr 1/4" = 1'-0"	amıng	Deta	alls	ARCH	ITECTUI	RAL FLO	OOR FI	RAMING D	ETAIL:	S				4
														Sheet
X√Wood Floor								1	2	3	4	5	6	A2.9
☐ Concrete Floor	ıla	-		d to a				7	8	9	10	11	12	A2.9
2 Wall Schedu 1/4" = 1'-0"	lie				ARCHIT	ΓECTUF	RAL WA	ALL DETA	ILS			9		
X Wood Stu	ds							etail						Sheet
		Doo		ML				Top PLT					INT HDR	A O 4
X Sheating ☐			9	2 3 4 5 3 4 5	11 11	1	16 16	17 17	5	x x	X X	10A 10A	10B 10B	A2.1 A2.2
☐ Plaster ☐ 1-HR Sheating				2 3 4 5		1	16	17	5	-	-	10A	-	A2.5
☐ 1-HR Plaster		8		2 3 4 5		1	16	17	4	-		10A		A2.
☐ Metal Stud	s	0	<u>. I</u>	2245	4.4	<u> </u>	10	40	<i>p</i> -		1	404	100	6
Wood Sheating				2 3 4 5 2 3 4 5		1 1	10	16 16	5 5	X X	x	10A 10A	10B 10B	A2.3 A2.4
☐ Wood Plaster ☐ 1-HR Sheating				2 3 4 5		1	16	17	5 .	-	-	10A	-	A2.7
☐ 1-HR Plaster		8	9	2 3 4 5	11	1	16	17	5	-	-	10A	-	A2.8
☐ Additional Fire R			ls a	nd Note	es					-				A3.0
Single OCC. Bat Ceiling Plans				enciació su un estar remirco e recurso e										A3.1
4 1/4" = 1'-0"				ARCHI	TECTUR	AL CEIL	LING P	LANS			ā (4	2		Sheet
Reflected Ceiling Plans:	X 24	' x 4()'					nt Fixture				£ 35 81		A3.2
rians.					12 (1'x8' 'x16') Re			t w/ 4					is .	A3.2
	□ 36	' x 4()'		· · · · · · · · · · · · · · · · · · ·			ght Fixture						A3.2
		XX	,		16 (1'x8'									***
				(1	'x16 [']) Re	cessed	Light							A3.2
	□ 48	' x 4()'		1.51	-	-	ht Fixture		3 · · · · · · ·				A3.2
					18 (1'x8' 'x16') Re			L VV/ 4						A3.2
Celing Notes											ı			A3.2.1
3 Ceiling Detai 1/4" = 1'-0"	s				ARCH	ITECTU	IRAL C	EILING DE	ETAILS					
Celing Framing			-							De	tail			Sheet
								Wall	Joi		Acces		BLK'G	
XT-GRID								SEE PLAN	SEE 2		SEE PL		E PLAN Typ	A3.3 A3.4
⊒ Wood ⊒ MTL								6	7		10		1 yp 11	A3.4 A3.4
Roof Plans					۸ ۵ ۵۰	JITEOT		* ** **						- mn2000 \$
<u> 1/4" = 1'-0"</u>	7				AKC	TITECT	UKALI	ROOF PLA	CNI		, T			Sheet
∡ Mono							el .	□ EPDM						A4.2.1
								☑ EFDM ☑ Standin	ig Sean	<u>1</u>	<u> </u>			A4.0.1
								☐ Parape				***		A4.4.1
⊒ Dual							a.		***					A4.2.2
								□ EPDM □ Standin	ng Sean	1 ·	1-1000			A4.0.2
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⊒ Dual				(20)		(2)	s .		9 0 8 5			, t.		A4.3
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ARCHITECTURAL

Exterior Elevations	ARCHITECTURAL EXTE	ERIOR EI	_EVATIO	 ONS				
174 - 1-0		De	etail	Sheet	De	Detail		
Exterior Elevations:	★ 24'x40'	Left	Right		Front	Rear		
	[XMono Slope	1	2	A5.0	1	2	A5.1	
·	☐ Parapet Roof - Mono Slope	3	4	A5.0	3	4	A5.1	
×	☐ Dual Slope	5	6	A5.0	1	2	A5.1	
	□ 36'x40'					9		
	☐ Mono Slope	1	2	A5.0	5	6	A5.1	
	☐ Parapet Roof - Mono Slope	3	4	A5.0	7	8	A5.1	
	☐ Dual Slope	5	6	A5.0	5	6	A5.1	
	□ 48'x40'	· ·						
¥	☐ Mono Slope	1	2	A5.0	9	10	A5.1	
,	☐ Parapet Roof - Mono Slope	3	3 4		11	12	A5.1	
	☐ Dual Slope	5	5 6		9	10	A5.1	
14 Interior Elevations 1/4" = 1'-0"	ARCHITECTURAL INTE	RIOR EL	EVATIC	NS	e.			
	1	Detail					Sheet	
Interior Elevations:		Le	eft Right	Front	Rear			
	X 24'x40'		2	3	4	A5.2		
2	□ 36'x40'		•	2	5	6	A5.2	
	□ 48'x40'		1 -	2	8	7	A5.2	

9 Plumbing 1/4" = 1'-0"		PLUMBING		Sheet
☐ Plumbing Details and Schedules				P1.0
10 Mechanical				
1/4" = 1'-0"	MECHANICAL		Sheet Ceiling Plan Roof Plan	
Mechanical	W 0.41 401	57/A/-11 A A	Ceiling Plan M5.1	M5.2
viecnanicai Plans:	≥ 24' x 40'	Wall Mount	M5.1	M5.2
		□ Roof Mount	M6.1	M6.2
	□ 36' x 40'	□ Wall Mount	M6.1	M6.2
	[40] ·· 40]	□ Roof Mount	M7.1	M7.2
	□ 48' x 40'	□ Wall Mount	M7.1	M7.2
	□ 60' x 40'	□ Roof Mount □ Wall Mount		,,,,, <u>,</u>
		□ Roof Mount		
	□ 72' x 40' □ 84' x 40' □ 96' x 40'	□ Wall Mount		
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		□ Roof Mount		
	□ 108' x 40'	□ Wall Mount		
	108 X 40	□ Roof Mount		
	□120' x 40'	☐ Wall Mount		
	120 X 40	☐ Roof Mount		
(11) Electrical			Ch	
<u> </u>		ELECTRICAL	She	eer
Reflected Ceiling Plans:	◯ 24' x 40'	⊠ 8 (2'x4') Recessed Light Fixture		
rialis.		□ 12 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.0	E1.1
	□ 36' x 40'	☐ 12 (2'x4') Recessed Light Fixture		
		□ 18 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.2	E1.3
	□ 48' x 40'	☐ 16 (2'x4') Recessed Light Fixture ☐ 24 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.4	E1.5
20	□ 60' x 40'	□ 20 (2'x4') Recessed Light Fixture □ 30 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 72' x 40'	☐ 24 (2'x4') Recessed Light Fixture ☐ 36 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 84' x 40'	☐ 28 (2'x4') Recessed Light Fixture ☐ 42 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 96' x 40'	☐ 32 (2'x4') Recessed Light Fixture ☐ 48 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 108' x 40'	☐ 36 (2'x4') Recessed Light Fixture ☐ 54 (1'x8') Pendant Light w/ 4		
	□ 120' x 40'	(1'x16') Recessed Light □ 40 (2'x4') Recessed Light Fixture □ 60 (1'x8') Pendant Light w/ 4		
Fire Sprinkle		(1'x16') Recessed Light		
1/4" = 1'-0" TINE OF HINKELING ENNO				Sheet
□ Fire Sprinklers Drawings: □ Floor Plans				FS-2

STRUCTURAL

Foundations Plans 1/4" = 1'-0"	FO	UNDATION			
X∕Wood			Shee		
Foundation		✓ 24'x40' (50+15 PSF)	F1.1		
Plan:		□ 24'x40' (100 PSF)	F1.2		
		□ 24'x40' (150 PSF)	F1.3		
4		□ 36'x40' (50+15 PSF)	F1.1		
	3	□ 36'x40' (100 PSF)	F1.2		
		□ 36'x40' (150 PSF)	F1.3		
		E 401-401 (E0: 45 DOE)	F1.1		
		□ 48'x40' (50+15 PSF)	F1.1		
		☐ 48'x40' (100 PSF)	F1.3		
Concrete Foundation Plan		☐ 48'x40' (150 PSF)	F2.1		
Concrete Foundation Plan General Structural Sheets					
1/4" = 1'-0"					
STRUCTURAL GEN NOTES			S0.		
Floor Framing Plans 1/4" = 1'-0"	STRUCTURAL FL	OOR FRAMING PLANS			
X Wood		*	She		
Sheating Floor:		ズ (50+15 PSF)	S1.0		
-		☐ (100 PSF)	S1.0		
·		☐ (150 PSF)	S1.0		
☐ Concrete					
Framing Floor:		□ (50+15 PSF)	S1.1		
		□ (100 PSF)	S1.1		
		□(150 PSF)	S1.′		
19 Floor Framing Details 1/4" = 1'-0"	STRUCTURAL FLOOR FRAMING DETAILS		She		
XWood Framing			S1.2		
□ Concrete Framing		en engapanan penjagan ana manan ngapan a manan manan manan manan ana ana ana	S1.2		
Roof Framing Plans	Roof Framing Plans 1/4" = 1'-0" STRUCTURAL ROOF FRAMING PLANS				
ズ Mono Slope Roof Framing			S3.0		
☐ Dual Slope Roof Framing			S3.0		
Wall Framing Details 1/4" = 1'-0"	STRUCTURAL W	ALL FRAMING DETAILS			
<u>1/4" = 1'-0"</u> ★ Wood:					
▼ Framing Elevation					
X Wall Details			S4.2		
□ Metal:			1 67		
☐ Framing Elevation			S4.0 S4.3		
☐ Wall Details			S4.3		
XTyp Framing: XFraming Schedule:	3		S4.5		
Building Section			She		
21 Building Section 1/4" = 1'-0" STRUCTURAL BUILDING SECTION					
Mono					
□ Dual			S5.1		



DESIGN • CONSULTING • PROJECT
11777 BERNARDO PLAZA COURT, SUITE 105
SAN DIEGO, CA 92128

PROFESSIONAL STAMP



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FILE NUMBER: PC-128 **IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT** 04 - 116504 INCR: 0

ORIGINAL PC STATE AGENCY APPROVAL

AC RM FLS EA SSR KER DATE ____07/19/2018

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

Revision Schedule

Description

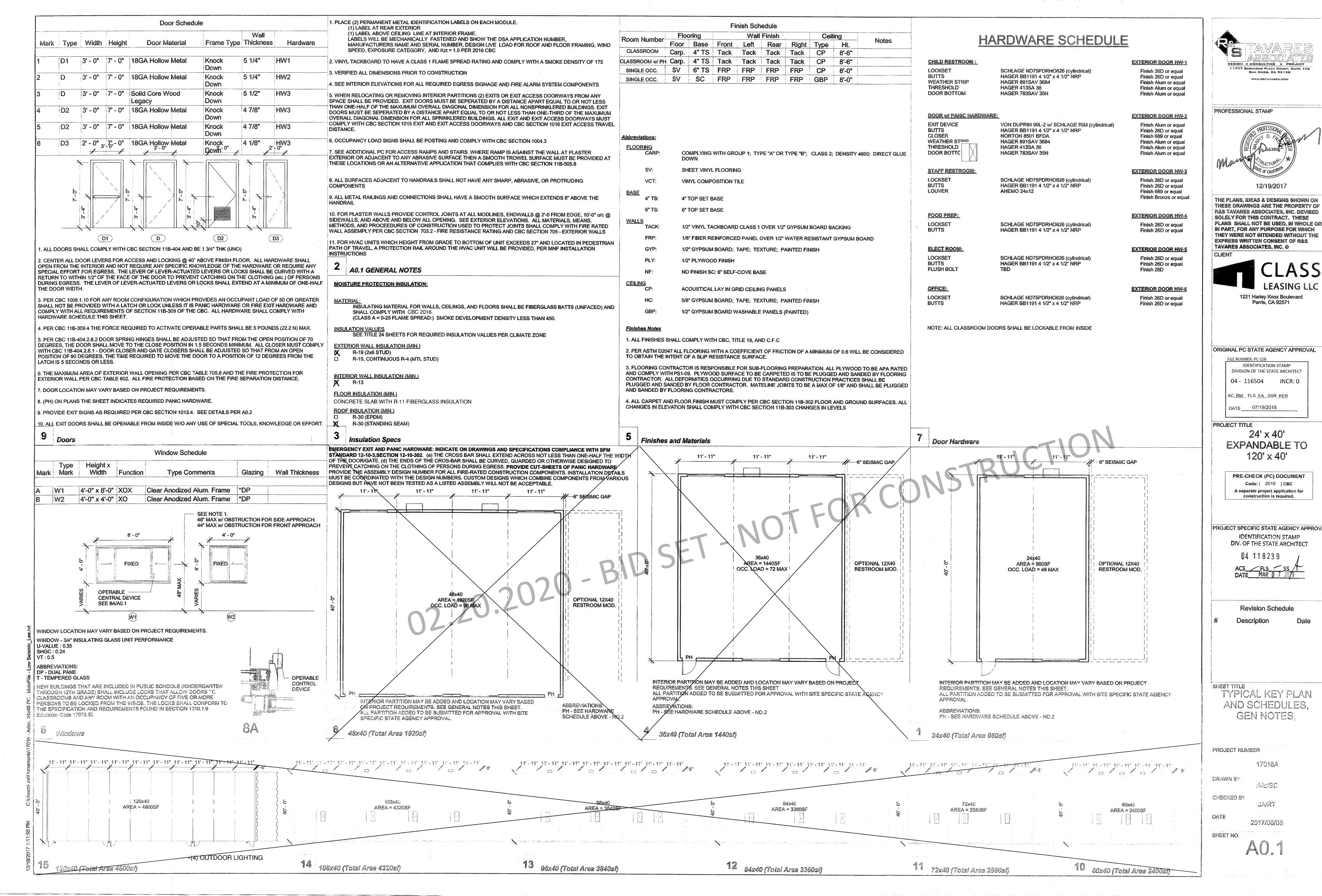
PROJECT OPTIONS SCHEDULE

PROJECT NUMBER 17016A

CHECKED BY JA/RT

2018/03/08

SHEET OF SHEETS



When designing play components with manipulative or interactive features, consider appropriate reach ranges for children seated in wheelchairs. The following table provides guidance on reach ranges for children seated in wheelchairs. These dimensions apply to either forward or side reaches. The reach ranges are appropriate for use with those play components that children seated in wheelchairs may access and reach. Where transfer systems provide access to elevated play components, the reach ranges are not appropriate.

Children's Reach Ranges

Forward or Side Reach Ages 3 and 4	High (maximum) 36 in (915 mm)	Low (minimum) 20 in (510 mm)
Ages 5 through 8	40 in (1015 mm)	18 in (455 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (2016 edition)

except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (2016 edition)

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703,2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background. 703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I". 703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter

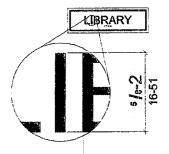


Figure 703.2.5 Height of Raised Characters

Table 118-703 Braile Dimens	
ednag translam	Minimum in inches Maximum in inches
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell	0.109 (2.5 mm)
Distance between corresponding dots in adjacent cells'	$0.369(7.6\mathrm{mm})$
Det height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance last con corresponding data from one cell directly below	0.395 (10 nom) to 0.400 (10.2 mm)

1/32" RAISED SYMBOLS CHEMICALLY WELDED TO ACRYLIC CORE (TYP)

PLASTIC LAMINATE FACE OVER ACRYLIC BACK

DEMARCATION LINE EITHER

RAISED AND CHEMICALLY

CORE OR ENGRAVED AND PAINT FILLED PER USER

LINE SIZE PER USER

NOTE: LETTERS REQ'D

CORNER TREATMENT

GRADE II BRAILLE BEADS

(EITHER SQUARE OR RADIUS) PER

RAISED 1/32"

MARGIN AREA

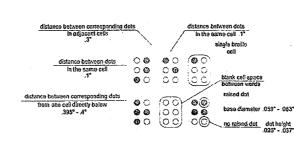
703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.



703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

Figure 703.3.1 Braille Measuremen

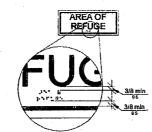


Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

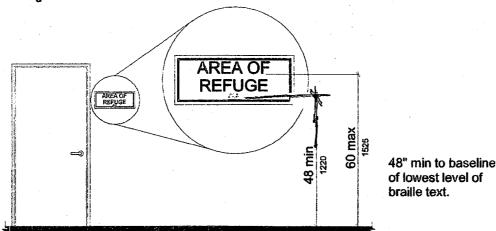


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

PLASTIC LAMINATE FACE

DEMARCATION LINE EITHER RAISED AND CHEMICALLY WELDED TO ACRYLIC

CORE OR ENGRAVED AND PAINT FILLED PER USER

PREFERENCE. LINE SIZE PER USER

GRADE II BRAILLE BEAI RAISED 1/32"

PARENT

GYMNASIUM

OVER ACRYLIC BACK

MARGIN AREA

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

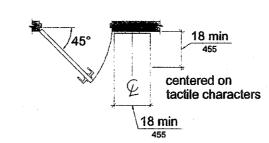


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

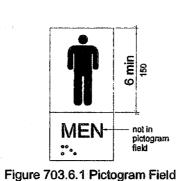
703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

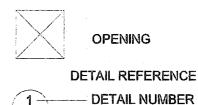
703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.



dark-on-light.



- PAGE NUMBER

CONCRETE

MASONRY

EARTH

SECTION REFERENCE - SECTION LABEL - PAGE NUMBER

CONTINUOUS WOOD

WOOD BLOCKING 0.00' FIN. FLR. ELEV.

BOTTOM OF FOOTING ELEVATION S-S STEPPED FOOTING

MAXMUM

ASSISTIVE LISTENING SYSTEM AVAILABLE

1/4"=1'-0"

UNISEX AND GENDER NEUTRAL RR.

DOOR SYMBOLS: CIRLCLE & TRIANGLE1/4" THICK. 1/4" THICK TRIANGLE SHALL BE

SUPERIMPOSED OVER 1/4" THICK CIRCLE AT

REQUIRED PER 11B-219 & 11B-706 (SEE FLOOR PLANS FOR MORE INFO)

- PLEASE ASK -

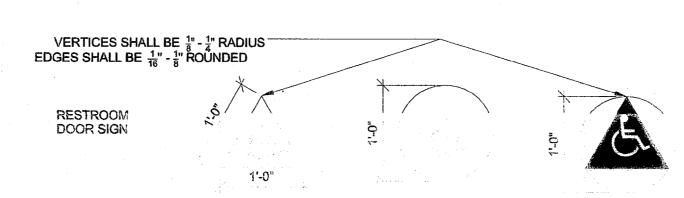
OCCUPANT LOAD SIGN REQUIRED PER DSA BU11-08.

EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY

SHALL BE CENTERED 18"

CLEAR FROM STRIKE OF

EXIT ROOM EXIT RESTROOM WALL SIGN MEASURED FROM F. F. TO BOTTOM OF TACTILE LETTERING NOTE: TACTILE SIGN TEXT



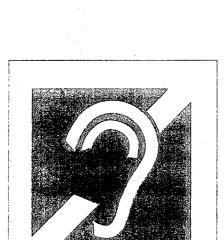
1. CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS. ACCOMPANIED BY GRADE 2

2. RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH AND A MAXIMUM OF 2 INCHES HIGH

3. CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH, 118-703-5.1.

4. TRIANGLE OR CIRCLE SMALL CONTRAST WITH DOOR. EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. 11B-703.7:2.6.1 AND 11B-703.2.2.6.2

5. CHARACTERES ON SIGN SHALL HAVE A WIDTH-TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. SEE 11B.703.2.4



OCCUPANCY

PERSONS

DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0

PROJECT TITLE

AC RM FLS EA SSR KER DATE 07/19/2018

DESIGN & CONSULTING & PROJEC

PROFESSIONAL STAMP

1777 BERNARDO PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128

THE PLANS, IDEAS & DESIGNS SHOWN ON

R&S TAVARES ASSOCIATES, INC. DEVISED

PLANS SHALL NOT BE USED, IN WHOLE OR

IN PART, FOR ANY PURPOSE FOR WHICH

THEY WERE NOT INTENDED WITHOUT THE

1221 Harley Knox Boulevard

Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP

FILE NUMBER: PC-128

EXPRESS WRITTEN CONSENT OF R&S

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THESE DRAWINGS ARE THE PROPERTY OF

24' x 40' **EXPANDABLE TO** 120' x 40'

> PRE-CHECK (PC) DOCUMENT Code: | 2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239 ACS___FLS___S DATE MAR 0 7

Revision Schedule Description

SHEET TITLE SIGNAGE AND

SYMBOLS

PROJECT NUMBER

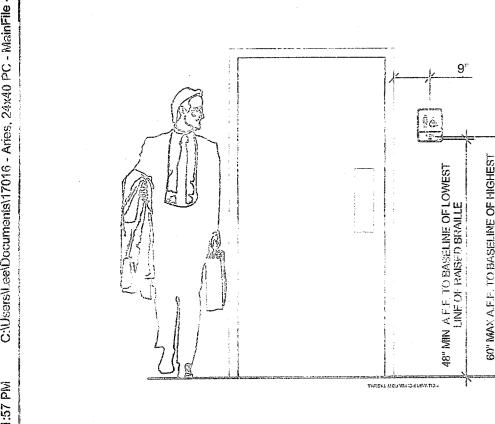
17016A

DRAWN BY

CHECKED BY JAVRT

DATE 2017/06/05

SHEET NO.



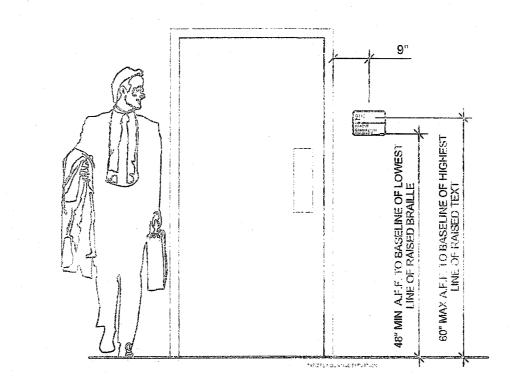
1. Measured center to center.

GIRLS

ELEVATIONS

1/4" = 1'-0" Sign Notes

BOYS



1/2" = 100" Signage

HARLE CONT.		
		a :
<i>†</i> **		
4	DIVISION OF THE STATE ARCHITECT	(2)
45366155	二十二十二 化复数多数基金 医多数医多数医线	n 3

7 OTHER

DSA-103 Issued 12/30/2016 List of Required Structural Tests & Special Inspections - 2016 CBC

Date Submitted: #

Name IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A. NOTE: This form is also available for projects submitted for review under the 2007, 2010, and

NSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. Note: A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. For more information on use of this form, see DSA-103.INSTR.

	Note: References are to the 20	16 edition of the C		uilding Code (CBC) unless otherwise noted.
REGULATION SPECIAL INSPEC	TION	z z z z z	PERFORM	CODE REFERENCE AND NOTES
SOILS				
CONCRETE				Sections 26.12 & 26.13
MASONRY		TMS 402-13/AC	I 530-13/A	SCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5
STEEL, ALUMINUM		Table 1705A.2.	, AISC 303	3-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
17. STRUCTURAL S	TEEL, COLD-FORMED ST	EEL, AND ALL	IMINUM	USED FOR STRUCTURAL PURPOSES
Waterial Verification:				
a. Verify identification of all materia Mill certificates indicate mater requirements. Material sizes, types and grades.	al properties that comply with	Periodic	*	2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician whe performed off-site.
b. Test unidentified materials		Test	LOR	2203A.1 (2203.1 ⁺).
c. Examine seam welds of HSS sh	apes	Periodic	SI	DSA IR 17-3.
Inspection:				
d. Not used.				
e. Verify and document steel fabric construction documents.	ation per DSA epproved	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
18. HIGH STRENGT	1 BOLTS:	RCSC 2009		ATOTA OF THE ATOTA DAME. A OF DOA ID 47 O ANNO D44 and ANNO D4 O for obsorbing
19. WELDING:				1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structure steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
Verification of Materials, Ed		· · ·		T
Verify weld filler material identifities designation listed on the DSA a	oproved documents and the WPS.	Periodic	SI	DSA IR 17-3.
 b. Verify weld filler material manuf compliance. 	acturer's certificate of	Periodic	SI	DSA IR 17-3.
c. Verify WPS, welder qualification	s and equipment.	Periodic	SI	DSA IR 17-3.
19.1 SHOP WELDING				
a. Inspect groove welds, multi-pas welds > 5/16", plug and slot wel		Continuous	SI	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
b. Inspect single-pass fillet welds:		Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicabl DSA IR 17-3.
c. Inspect welding of stairs and rai	ling systems.	Periodic	SI	1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
d. Verification of reinforcing steel	veldability other than ASTM A706	Periodic	SI	1705A.3.1; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3.
e. Inspect welding of reinforcing st		Continuous	SI	1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 3.
19.2 FIELD WELDING	3:			
20. NONDESTRUCT	VE TESTING:			
a. Ultrasonic		Test	LOR	1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 App. Q 5.2. AWS D1.1, D1.8. ANSI/A
6. Magnetic Particle		Test	LOR	CP-189, SNT-TC-1A. DSA IR 17-2.
d.		Test	LOR	
21. STEEL JOISTS A	ND TRUSSES:			
	FIRE-PROOFING:			
	, ANCHOR RODS, & OTH	ER STEEL:		
a. Anchor Bolts and Anchor Rods		Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not reedily identifiable.
b. Threaded rod not used for foun-		Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11
C.				

THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.

			-	
BLPAR	DSA List of Required Structures of Benefit Special Inspections	uctural Te - 2016 C	ests & BC	INCREMENT# DSA File No.: ## ## Application No.: ## Date Submitted: ## Revised: ##
Sonool			District	Rawsan
inspection this of Record perform identified project not limited we per Title		pections noted cord, Laboratory n must be tom of this form ural testing. The m, including but framing, high- omponents, etc., 17, 2010, and	special i dependi your sel can be d "COMP use of t	JCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and inspections. A shaded box indicates a test or special inspection that may be required ing on the scope of the construction and other issues. A shaded box can be clicked indicating ection of that test. Note: A minus (-) on a category or subcategory heading indicates that it collapsed. However, any selections you may have made will be cleared. Click on the ILE" button to show only the tests and inspections finally selected. For more information on this form, see DSA-103.INSTR.
		16 edition of the C		Ilding Code (CBC) unless otherwise noted.
/ A	TEST OR SPECIAL INSPECTION	TAPE	PER OF	CODE REFERENCE AND NOTES
-	SOILS			
X	Denify that: Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, foundation excavations are extended to proper depth and have reached proper material, and materials below footings are adequate to achieve the design bearing capacity.	Table 1705A.6 Periodic	6 GE⁺	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	2. COMPACTED FILLS:	Table 1705A.6		
	a. Perform classification and testing of fill materials. b. Verify use of proper meterials, densities end inspect lift	Test	LOR*	* Under the supervision of the geotechnical engineer.
X	thicknesses, placement, and compaction during placement of fill. c. Test compaction of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
+	3. DRIVEN DEEP FOUNDATIONS (PILES):	Test Table 1705A.7		* Under the supervision of the geotechnical engineer.
+	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIEF	RS):	Table 170	5A.8
+	5. RETAINING WALLS: \	Was a will a blanch of the standard		
+	6. OTHER SOILS:	W-b1- 490m/ *	40104045	2 and an 20 40 9 00 40
-	CONCRETE CONCRETE	1 able 1/05A.3,	AUI 318-14	Sections 26.12 & 26.13
-	7. CAST IN PLACE CONCRETE Material Verification and Testing:			
x	a. Verify use of required design mix.	Periodic	SI*	Table 1705A.3 item 5, 1910A.1 (1909.2.3*). * To be performed by qualified batch-plent inspector and concrete sampling technician
	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2 (1909.2.4*); ACI 318-14 Section 26.6.1.2. DSA IR 17-10
x	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 item 6; ACI 3/8-14 Sections 26.5 & 26.12
X	d. Test concrete (fc).	Test	LOR	1905A.1.16 (1909.3.7'); A&I 318-14 Section 26.12.
x	Inspection: e. Batch plant inspection • Continuous • Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3; If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to refuirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
	f. Notused.			
	g. Not used.			

TOUR PARTNESSES OF THE PLACE CONCRETE Test to employee the state of the production of the plant		This form is also available for projects submitted for review under the 200 3C.			·
Tract of secule survivories SOLIS SOLIS SPERIOL: - Long SPERIOL: - Long SP			46 - distance as also 6	alfamia Bu	Hallon Code (CBC) unless otherwise noted
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SOLE 1. GENERAL: 1. ONLY AND THE PLANT PLACE CONCRETE Materials which were proportional organized and report of the control		TEST OR SPECIAL INSPECTION	- Agri	a d	CODE REFERENCE AND NOTES
1. GENERAL 1. TOP JOB TO STANDARD PROPERTY OF STAN	-			/ dr. 0	
2. Port State 1. Port	-		Table 1705A.	6	
Part of the securities also provided by the provided of the pr		a. Verify that:			
newbool coper misterile, and support the problems in bridge in the final part of the problems		fill and/or excavations/for foundations,	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
So November 2015 1.5 The state of the part of motivate of the part of the pa		reached proper material, and	Chodio	"-	by geoleconnical engineer of the of the qualified representative (each appearance)
B. Petton constraints and templay of it mandata. Tot LOR? ** Uses the sequential or the goldschorate arrangement. Continuous of the cont		bearing capacity.			
territorians personal and specimens of state of processions of the common of the commo	-				* Under the supervision of the geotechnical engineer.
S. DRIVEN DEEP FOUNDATIONS (PILES): Table 1766A. 3. DRIVEN DEEP FOUNDATIONS (PILES): Table 1766A. 4. CAST-IN-PLACE DEEP COUNDATIONS (PILES): Table 1766A. 5. RETAINING WALLS: OTHER SOLS. Table 1766A. AGI 186-14 Section 26.1.5 & 26.17 Table 1766A. AGI 186-14 Section 26.1.1 (pid. 25.1)-10 in preference by qualified baddy-place impaction on the control section of the production o		b. Verify use of proper meterials, densities end inspect lift	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
4. CAST-IN-PLACE DEÉP FOUNDATIONS (PIERS): Trade 1796A3, ACI 316-14 Buckens St. 12 - 38.11 7. CAST 18 PT ALCE CONCRETE 7. CAST 18 PT ALCE CONCRETE 8. Trade 1796A3, ACI 316-14 Buckens St. 12 - 38.11 7. CAST 18 PT ALCE CONCRETE 9. Virgit year disposed ading near. 1. Virgit year disposed ading near. 2. Disposed year disposed ading near. 2. Disposed year disposed ading near. 3. PRESTRESSED CONCRETE (in addition to Sast in Place Concrete tests and Inspections): 3. PRESTRESSED CONCRETE (in addition to Sast in Place Concrete tests and Inspections): 3. PRESTRESSED CONCRETE (in addition to Sast in Place Concrete tests and Inspections): 3. PRESTRESSED CONCRETE (in addition to Sast in Place Concrete tests and Inspections): 3. Prestress Disposed in the consequence of the concrete tests and Inspections): 3. Virgit year disposed adition of the disposed properties of the concrete tests and Inspections): 3. Virgit year disposed adition of the disposed properties of the concrete tests and Inspections): 3. Virgit year disposed adition of the disposed properties of the concrete tests and Inspections): 3. Virgit year disposed with the properties of the concrete tests and Inspections): 3. Virgit year disposed with the properties of the concrete tests and Inspections): 3. Virgit year disposed with the properties of the concrete tests and Inspections): 3. Virgit year disposed with year disposed year of the properties o			Test	LOR*	* Under the supervision of the geotechnical engineer.
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6. OTHER SQUES 7. CAST IN PLACE CONCRETE 8. Protected by used of required relating in the Marketing sheet. 7. Total LOR 8. Indext, System, and but enhancing sheet. 7. CAST IN PLACE CONCRETE 8. Indext System, and but enhancing sheet. 8. Indext, System, and and conference of the Virginian of the Concrete Concret	-8		(8):	Table 170	/ / / / / / / / / / / / / / / / / / /
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b. Identify, campits, and lest ministering steet. C. Diding controll, business and performance in the responsibility of the property of the p			Periodic	SI*	Table 1705A.3 item 5, 1910A.1 (1909.2.3*). * To be performed by qualified batch-plent inspector are concrete sampling technician
total profession sharp and all content leafs, and determine the functionary in the properties of the concente (I). Trail LOR 1988.4.18 (1990 2.7), pp. 53 16-14 Section 2.6 & 26. 12. **Repetition** **Bispecition** **Bispecit		b. Identify, sample, and test reinforcing steel.	Test	LOR	
determine the impression of the concesse. 1 Tool Tool (Pub.) Treat LOR 1900.4.1.16 (1900.3.7"; off 131-14 Section 2d 12. This perfection: a. Basin place reportion: a. Basin place reportion: b. Rodinated. 5 Policians. b. Rodinated. b. Rodinated. b. Rodinated. b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): b. Treat political and carbon. b. Treat political and carbon. b. Treat political and carbon. c. Prestressed testification of political and carbon. c. Prestressed testification of political and carbon. c. Treat 100 May 17.7.8. White the concrete tests and inspections): 12. OTHER CONCRETE; MASONRY Tasks 1780A. 1.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.			Test	LOR	Table 1705A.3 item 6; ACI 3/8-14 Sections 26.5 & 26.12
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Continued Professional Continues of Professi			test	LUK	1300A-1.10 (1303-3.1); Ayol 310-14 SECTIOR 20.12.
E. Notused. B. Notused. B. Notused. B. Weding of nonincing steed. Provide special impedeon per STEEL. cateory 19.1(j) & (a) and/or 19.2(j) & (b) below. B. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): B. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections): 10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections): 11. POST TAISTALE DANGHORS: a. Inspect inspection of post ins		\	See Notes	Si	Default of 'Continuous' per 1705A.3.3; If approved by DSA, batch plant inspection may be reduced 'Periodic' subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See
B. No stead. B. Widing of reinforcing deted. Prosides special happedion par STEEL, catagoly 16 (1) & (6) and/or 18 2(g) & (b) below. B. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): 9. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections): 10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections): 11. POST, INSTALLED ANCHORS. a. Inspect installation of prosh-installed anchors See Notes St. Table 1786-1881 State As (Conditionates) & (6) President (in the Place Concrete tests and inspections): 11. POST, INSTALLED ANCHORS. a. Inspect installation of prosh-installed anchors See Notes St. Table 1786-1881 State As (Conditionates) & (6) President (in the Place Concrete tests and inspections): 12. OTHER CONCRETE: MASONRY Table 1786-2 (1) President (in the Place Concrete tests and inspections): 12. OTHER CONCRETE: MASONRY Table 1786-3 (1) SHOT (<u> </u>	Appendix for exemptions.)
1. Wedfing of reinforcing stead. Proude opposite imprection per STEEL, category 15.1(s) & (e) and/or 15.2(g) & (f) below. 3. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections): 9. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections): 10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections): 11. POST-INSTALLED ANCHORS: a. toped installation of post-installat anchors. 5. Test per-installed anchors. 12. OTHER CONCRETE: (in addition to Cast in Place Concrete tests and inspections): 11. POST-INSTALLED ANCHORS: a. toped installation of post-installation anchors. 12. OTHER CONCRETE: (in addition to Cast in Place Concrete tests and inspections): 13. Test per-installation anchors. 14. Contract of post-installation anchors. 15. Test per-installation anchors. 16. Test per-installation anchors. 17. STEEL, ALUMINUM 17. STEEL STEEL STEEL STEEL STEEL STEAL STEEL STEAL STEEL STEAL STEEL STEEL STEEL STEEL STEEL STEAL STEEL STEAL STEEL STEAL STEEL STEAL STEEL STEEL STEEL STEAL STEEL STEEL STEAL STEEL STEEL STEEL STEAL STEEL STEE	-			ļ	
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9. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections): 10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections): 11. POST-INSTALLED ANCHORS: a. Inspect installation of post-installed anchors by Notes St. Sand 1. Sand (Continuous) & 46 (Pertodic) (see Appendix for exemptions). ACI S18-14 (Sand Sand Sand Sand Sand Sand Sand Sand	-		Cast in Place	Concret	te tests and inspections):
1. POST-INSTALLED ANCHORS: a. Inspect installation of post-histalist anchors by Notes by Table 1789.A.1 lorm 4s (Continuous) & 4b (Periodic) (see Appondix for exemptions). ACI 319.14 spaces 17.8 a. 23.13 * May be performed by the preject inspector whom specifically approved by for 17.0 a. 20.11 by Test post-weight of exemptions. 12. OTHER GONCRETE: MASONRY Table 27.0 ALD Short 17.0 a. 20.11 Table 1789.A.1 lorm 4s (1500.2.17). Give Appondix for exemptions). Table 1789.A.1 lorg (1500.2.17). Table 2.1.1.2 a. 1186 502-13/LOS 353-10, May be preformed by the preject inspection whom specifically approved by for 1969.A.5 (1500.2.17). Table 2.1.1.2 a. 1186 502-13/LOS 353-10, May 18.002-13/LOS 353-10, May 18.002-13/LO		9. PRECAST CONCRETE (in addition to Cast in	n Place Conc	rete test	s and inspections):
a. Inspect installation of post-installed anchors Set Notes 12. OTHER CONCRETE; MASONRY This 462-1/NGC 536-13/ASC 5-13 Table 2-13/ACI 536-13/ASC 5-13 Table 2-13/ACI 536-13/ASC 5-13 Table 2-13/ACI 536-13/ASC 5-13 Table 2-13/ACI 536-13/ASC 5-13 Table 3-13 & TMS 692-13/ACI 536-13/ASC 5-13 Table 3-13/ASC 5-13	_		ondrete tests	and insp	pections):
5. Tropic Internation of Potential analysis of the Table 1 and 1 a	100000000000000000000000000000000000000		T 62 11-11-	CIT	Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14
12. OTHER CONCRETE; MASONRY Table 1795A_1, ASIC 590-10, ASIC 360-10, ASIC 360-10, ASIC 380-10,					Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D
MASONRY Title 390-14/A/CE 390-14/A/CE 39-15 Table 3.1.3 ATMS 692-13/ACE 39.1 TAJASCE 6-13 Table 5			Telst	LOR	/910A.5 (1909.2.7*). (See Appendix for exemptions.)
Material Verification of a materials and examination of the state of t		The state of the s	TMS 402-13/AC	1 530-13/As	CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5
Meterial Verification: All certification of all materials end: - Mill certification of all materials end: - Mill certificates include material properties that comply with requirements, - Material sizes, types and grades comply with requirements. - Economics seam webs of HSS shapes - Test - LOR - Economics seam webs of HSS shapes - Perfodic - Verify and document steet fabrication per DSA approved - construction documents. - 18. HIGH STRENGTH BOLTS: - Well DING: - Well DING: - Well perfodic SI - Well perfod		STEEL, ALUMINUM	Table 1705A.2.	1, AISC 3/03-	10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
a. Verify demitication of all materials ends. **Ail critication and amaterials properties that comply with requirements, -*Material states, types and grades comply with resultements. **Description: -**Description: -**Des			EL, AND AL	MUMIN	USED FOR STRUCTURAL PURPOSES
Periodic requirements to the analysis of the second process and colling with requirements. In Test undernified material properties the search of the second process of the seco		a. Verify identification of all materials end:		ιX	2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S
- Natural 2009, 1949 and grades comply with requirements. D. Test underlinder materials Inspection: d. Not used. e. Verify and document seel abrication per DSA approved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING: A Verify and document seel abrication per DSA approved construction documents. 19. WELDING: 19. WELDING: A Verify and document seel abrication per DSA approved construction documents. 19. WELDING: A Verify and document seel abrication per DSA approved construction documents. 19. WELDING: A Verify well file material service seel seel seel seel seel seel seel se		requirements,	Perlodic	/ / .	12 Section A3, AiSI S220-11 Section A4. * By special inspector or qualified technician when perform
Inspection: d. Not used. e. Verify and document steef bibrication per DSA approved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING: AVS 10, 12 for Aluminum, AWS D1.3 for cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.3, Table 1705A.2.1 terms 4.6.5; DSA IR 17.3, AWS D1.1 and AWS D1.3 for structural s AWS D1.2 for Areminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix or ownspitions.) 19. WELDING: 19. Verification of Materials, Equipment, Welders, etc: a. Verify well filler material identification markings per AWS designation issed on the DSA approved documents and the WPS. b. Verify well filler material identification markings per AWS designation issed on the DSA approved documents and the WPS. c. Verify well filler material identification markings per AWS designation issed on the DSA approved documents and the WPS. c. Verify well filler material identification markings per AWS designation issed on the DSA approved documents and the WPS. c. Verify well filler material identification markings per AWS designation issed on the DSA approved documents and the WPS. c. Verify well filler material identification markings per AWS designation issed on the DSA approved documents and the WPS. c. Verify well filler material identification of markings and equipment. 19.1 Supply WELDING: c. Inspect shelding of stains and railing systems. c. Inspect welding of stains and railing systems. c. Inspect welding of reinfercing steel. c. Inspect welding of reinfercing steel. c. Continuous SI 1705A.2.1 fem Sa.4.2.1 fem Sa.5.5 sa.6. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. c. Inspect welding of reinfercing steel. c. Continuous SI 1705A.2.1 fem Sa.4.2.1 fem Sa.4.2.1 fem Sa.4.10 as applicable). DSA IR 17-3. c. Inspect dingraph peas filter welds. Signate per Sa.6.1 fem Sa.6.2 per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. c. Inspect dingraph peas filter welds. Signate per Sa.6.2 per AISC 360-10 (and AISC 341-10 as		b. Test unidentified materials			2203A.1 (2203.1°).
d. Not used. e. Verify and document steel fabrication per DSA approved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING: Verification of Materials, Equipment, Welders, etc: a. Verify well after material identification markings per AWS designation listed on the DSA approved documents and the WPS. b. Verify well after material inarnification markings per AWS designation listed on the DSA approved documents and the WPS. b. Verify well after material inarnification markings per AWS designation listed on the DSA approved documents and the WPS. b. Verify well after material inarnification markings per AWS designation listed on the DSA approved documents and the WPS. b. Verify well after material marulacturer's certificate of compliance. c. Verify WPS, welder qualifications and equipment. Periodic s. DSA IR 17-3. 19.1 SHOP WELDING: a. Inspect single-pass fillet welds, single pass fillet welds, single pass fillet welds, single pass fillet welds so fife, floor and roof deck welds Periodic b. Inspect single-pass fillet welds single pass fillet welds and the WPS. b. Inspect welding of stairs and railing systems. Periodic d. Verification of reinforcing steel weldsballs giver than ASTM A766 Periodic a. Inspect welding of reinforcing steel weldsballs giver than ASTM A766 Periodic a. Inspect single-pass fillet welds, single pass			Perlodic /	SI	DSA IR 17-3.
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AWS Q1,2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) Verify weld filter material identification markings per AWS designation listed on the DSA approved documents and the WPS.	ı		Perjodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
Verification of Materials, Equipment, Welders, etc: a. Verify weld filter material identification markings per AWS designation listed on the DSA approved documents and the WPS. b. Verify weld filter material international int		construction documents.		SI	
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19.1 SHOP WELDING: a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and stot welds b. Inspect single-pass fillet welds s 5/16", floor and roof deck welds c. Inspect welding of stairs and railing systems. d. Verification of reinforcing steel weldability other than ASTM A706 Periodic si 1705A.2.1 Tev AISC 360.10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. d. Inspect welding of reinforcing steel weldability other than ASTM A706 Periodic si 1705A.3.1; verify carbon equivalent reported on mill certificates. AWS D1.4 DSA IR 17-3. d. Inspect welding of reinforcing steel. 19.2 FIELD WELDING: a. Inspect groove welds, multi-pass fillet welds, single pess fillet welds > 5/16", plug and stot welds b. Inspect croove welds, multi-pass fillet welds, single pess fillet welds > 5/16", plug and stot welds b. Inspect est single-pass fillet welds s 5/16" Periodic si 1705A.2.1 Hem 5a.1-4. Pex AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. d. Inspect groove welds, multi-pass fillet welds, single pess fillet welds > 5/16", plug and stot welds b. Inspect groove welds, multi-pass fillet welds, single pess fillet welds > 5/16", plug and stot welds b. Inspect groove welds, multi-pass fillet welds, single pess fillet welds > 5/16", plug and stot welds b. Inspect groove welds, multi-pass fillet welds s 5/16" Periodic si Table 1705A.2.1 Hem 5a.1-4. Pex AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. d. Inspect single-pass fillet welds s 5/16" Periodic si 1705A.2.2 Table 1705A.2.1 Hem 5a.5 Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. d. Inspect welding of structural cold-formed stylet Periodic si 1705A.2.2 Table 1705A.2.1 Hem 5a.6 Per AISC 360 (and AISC 341-10 as applicable). AWS D1.1. DSA IR 17-3. d. Inspect welding of structural cold-formed stylet Periodic si 1705A.2.1; Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1. DSA IR 17-3. DSA IR 17-3. d. Inspect welding of stairs and railing systems Periodic si 1705A.2.2; Periodic Name of th		construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING: Verification of Materials, Equipment, Welders, etc: a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS. b. Verify weld filler material manufacturer's certificate of	RCSQ 2009 Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural st AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-8.
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LOR 1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 App. Q 5.2. AWS D1.1, D1.8. ANSI/ASNT LOR CP-189, SNT-TC-1A. DSA IR 17-2. X a. Ultrasonic

21. STEEL JOISTS AND TRUSSES: 22. SPRAY APPLIED FIRE-PROOFING: 23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:
 a. Anchor Bolts and Anghor Rods
 Threaded rod not used for foundation anchorage.
 Total

+ WOOD + OTHER

> THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.

per Title 24, Part 2, Chapter 17A.

2013 CBC.

+ SOILS

+ CONCRETE

+ MASONRY

d. Not used.

- STEEL, ALUMNUM

Material Verification:

c. Examine seam welds of HSS s

19. WELDING:

compliance.

DSA List of Required Structural Tests & Special Inspections - 2016 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special

inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record. Laboratory

not limited to special inspections not listed on this form such as structural wood framing, high-

load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc.,

NOTE: This form\is also available for projects submitted for review under the 2007, 2019, and

TEST OR SPECIAL INSPECTION

Mill certificates indicate material properties that comply with

Material sizes, types and grades compay with requirements.

 Test unidentified materials

Verify and document steel fabrication pe DSA approved

Verification of Materials, Equipment, Welders, etc Verify weld filler material identification markings per AWS

19.1 SHOP WELDING:
Inspect groove welds, multi-pass fillet welds, single pass

b. Inspect single-pass fillet welds ≤ 5/16°, floor and roof deck we

a. Inspect groove welds, multi-pass fillet welds, single pass fillet

c. Inspect end-welded stude (ASTM A-108) installation (including

d. Verification of reinforcing steel weldability other than ASTM A706

construction documents.

18. HIGH STRENGTH BOL

designation listed on the DSA approved docume

b. Verify weld filler material manufacturer's certifications.

x c. Verify WPS, welder qualifications and equipment.

welds > 5/16", plug and slot welds

e. Inspect welding of reinforcing steel.

19.2 FIELD WELDING:

welds > 5/16", plug and slot welds

e. Inspect welding of structural cold-formed steel

f. Inspect welding of stairs and railing systems

- 20. NONDESTRUCTIVE TESTING:

+ 21. STEEL JOISTS AND TRUSSES:

22. SPRAY APPLIED FIKE-PROUP

- 23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL

6" = 1'-0" DSA-103 PLYWOOD FLOOR (Wood Foundation) T

g. Verification of reinforcing steel weldability

h. Inspect welding of reinforcing steel.

X b. Inspect single-pass fillet welds ≤ 5/16

d. Inspect floor and roof deck welds

bend test)

X a. Ultrasonic

+ OTHER

X b. Magnetic Particle

c. Inspect welding of stairs and railing systems.

of Record, or Special Inspector. The actual complete test and inspection program must be

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

17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES

Periodic

Periodic

Continuous

Periodic

THE EXAMPLE OF FORM DSA-1036 SHOWN ON THIS SWEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED

INTO AND ALL EXAMPLE FORM DSA-1036 ARE TO BE/CROSSED OUT ON THIS DRAWING.

Table 1706A.3, ACI 318-14 Sections 26.12 & 26.13

 fest
 LOR
 2203A.1 (2203.1*)

 Periodic
 Si
 DSA IR 17-3.

SI DSA IR 17-3.

Periodic SI DSA IR 17-3.

Periodic Si DSA IR 17-3.

SI

DSA File No.: Application No.: Date Submitted:

INSTRUCTIONS; Click a plus sign (+) before any category or subcategory to reveal additional special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked in this your selection of that test. Note: A minus (-) on a category or subcategory heading indicates that it performed as detailed on the DSA approved documents. The appendix at the bottom of this form can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. For more info/mation on identifies work NOT subject to DSA requirements for special inspection or structural resting. The use of this form, see DSA-103.INSTR. project inspector is responsible for providing inspection of all facets of construction, including but

2203A.1 (2203.11), Table 1705A.2.1 Item 3a-3c; AISI \$100-07/\$2-10 Section A2.1 & A2.2. AISI \$200-

12 Section A3, AISt S220-11 Section A4. By special inspector or qualified technician when performed

1705A.2.5, Table 1705A.2.1 Items 4 & 🎉; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steet

1 item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable)

AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See

Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

St | Table 1705A.2.1 Item 5a/-4. Per AiSC 360-10 (and AISC 341-10 as applicable). DSA IR 17-6.

51 1705A.2.1. Per AISC/360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17.3

Si Table 17054/2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-5.

Si Table 1707A.2.1 Item 5a.5. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.

SI 2213A.2/2212.6.2°); per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1. DSA IR 4

DSA. DSA IR 17-3.

1705A.2.1; Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3.

1705A.3.1; verify carbon equivalent reported on mill certificates. DSA IR 17-3.

LOR 1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 App. Q 5.2. AWS D1.1, D1.8. ANSI/AISNT LOR CP-189 SNT-TC-1A. DSA IR 17-2.

1 Sample and test anchor boits and anchor rods not readily identifiable

1705A/2.2, Table 1705A.2.1 item 5a.6; per AISC 360 (and AISC 341 as applicable) & AWS D1.3.

DSA /R 17-3.

170/A.2.5; AWS D1.3. * May be performed by the project inspector when specifically approvad by

SI / 1705A.3.1, Table 1705A.3 liem 2, and Table 1705A.2.1 liem 5b, 1903A.8. AWS D1.4. DSA iic 17-3.

SA IR 17-3. * May be performed by the project inspector when specifically approved by DSA

Continuous | St | 1705A.3.1, Table 1705A.3 item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. D5A IR 17-3

1705A.3.1; verify cyrbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3.

CODE REFERENCE AND NOTES

TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 536.1-13/ASCE 6-13 Table 5

Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10. AISC 358-10, AISI \$100-07/\$/2-10

Appendix for exemptions.)

PROFESSIONAL STAMP

DESIGN & CONSULTING & PROJECT 11797 BEREASHE PLAZA COMET. SERTE TES SAN DRIBE, OR VE 138

THE PLANS, IDEAR & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE Plans shall not be used, in whole or IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. © CLIENT

1221 Harrey Knox Boulevard

ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0 AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE 24 x40 EXPANDABLE TO

> PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

Revision Schedule

SHEET TITLE PLYWOOD

FLOORS

DRAWN BY

PROJECT NUMBER

CHECKED BY

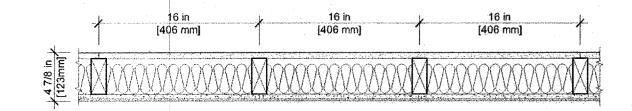
DATE

CAL GREEN NOTES

CONSTRUCTION WASTE MANAGEMENT

PER 2016 CALGREEN CODE SECTION 5.408.1 CONSTRUCTION WASTE MANAGEMENT MEETS THE FOLLOWING CALGREEN REQUIREMENTS: I- PERCENTAGE OF WASTE TO BE SALVAGED OR RECYCLED WITH A MINIMUM OF 65% OF NON-HAZARDOUS

II- THE CONSTRUCTION AND DEMOLITION MATERIALS WILL BE HANDLED BY A MATERIAL RECOVERY FACILITY (MRF) PROCESSED AND DIVERTED AS NEEDED. THE PROCESS IN PLACE GENERALLY YIELD A 75% OR BETTER DIVERSIÓN



UL U329 or GAP WP 3441 Interior Partitions -Wood Stud

Fire Rating

Thickness (in.)

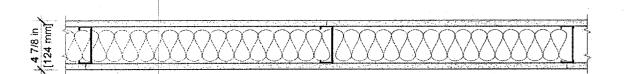
* Gypsum Board - 5/8 in. thick board, applied horizontally or vertically

* Wood Studs | 2 in. x 4 in. wood studs spaced max. 16 in. o/c

* Batts and Blankets - Min. 3-1/2 in. thick mineral wool batt insulation * Cement Board - 1/2 in. thick board, applied horizontally or vertically

* Bond Coat for Setting Tile - Latex modified portland cement mortar or . 1 type I organic adhesive applied with a notched trowel

* Ceremic Tile - 1/4 in. thick ceramic tile



Fire Test UL U465 Steel Stud (Non-loadbearing) Interior Partitions

Sound Test: RAL-TL11-125

Fire Rating

Thickness (in.)

* Gypsum Board - 5/8 in. thick board, applied vertically, attached to studs with 1 in. long, Type S-12 screws, spaced 8 in. o/c along the edges and 12 in. o/c of the board - SHHETROCK Brand Firecode Core (Type X)

* Steel Studs - 3-5/8 in. wide min. 25 gauge steel. Attached to floor and ceiling with fastners, 24 in o/c - 362S125-18

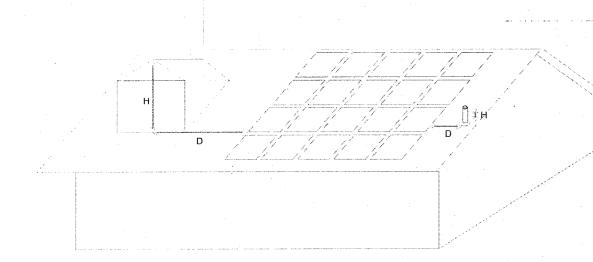
* Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally -SHEETROCK Brand FIRECODE Core (Type X)

* Batts and Blankets - Min. 3-1/2 in. thick mineral wool batt insulation

Moisture control. Exterior door protection:

Nonabsorbent flooring indicated on floor plan, and nonabsorbent interior wall finish indicated on interior elevations.

See sheets A1.0, A1.1, and A1.2 for door protection See sheet A5.2 for wall finishes



Source: California Energy Commission

Any obstruction, located on the roof or any other part of the building that projects above the solar zone shall be located at a sufficient horizontal distance away from the solar zone, in order to reduce the resulting shading of the solar zone. For each obstruction, the horizontal distance ("D") from the obstruction to the solar zone shall be at least two times the height difference ("H") between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone.

D ≥2 × H

	l	COMPLIAN	CE CHECKLIST FOR PRE-CHECKED (F		BUILDING DESIGNS	
WATER	EFFICI	ENCY				
5.303.3		WATER CONSERVING PLUMBING	FIXTURES AND FITTINGS:			
5.303.3	P1.0	PLUMBING FIXTURE FLOW RATES AR	SHOWN ON PLUMBING FIXTURE SCHEDULI	E		
MATER	IAL CO	NSERVATION & RESOURCE	E EFFICIENCY			
5.407.2.2		WATER RESISTANCE AND MOIS				
	A1.0-1.2			NOTERIOR DOOR PROTECTION AND INDICATE THE NON-A	BSORBENT FLOOR AND	WALL FINISHES
5.407.2.2.1			ID PERPENDICULAR TO THE PRIMARY ENTRA	ANCES. ITH THE LOCATION AND DETAILS FOR A 4 FEET DEEP AWN	ING ROOF OVERHANG	RECESSED
		AREA, OR OTHER APPROPRIATE MET		THE LOCATION AND DETAILS FOR A FEET DEEL AND	ard, reor overribute,	, TEOLOGED
5.407.2.2.2	7.070 070	<u> </u>	FLASHINGS INTEGRATED WITH A DRAINAGE	PLANE.		
5.408.1		CONSTRUCTION WASTE MANAG				*
			WASTE AND RECYCLING FACILITY USED BY S FOR REUSE A MINIMUM OF 65% OF THE	Y THE MANUFACTURER WHICH SPECIFIES A CONSTRUCTION WASTE	ON WASTE MANAGEMEN	T PLAN IDENTIFY
				SAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PR	OJECT, OR SALVAGED F	OR FUTURE USE
5.408.1	PDF		N WASTE MATERIALS WILL BE SORTED ON-S			
		- Lorent - L	CONSTRUCTION WASTE WILL BE TAKEN.			
		<u></u>	F CONSTRUCTION WASTE IS CALCULATED B		און שוון חב מוויבות	
			ANY IS ABLE TO PROVIDE VERIFIABLE DOCL	JMENTATION THAT 65% OF CONSTRUCTION WASTE MATE	RIAL WILL BE DIVERTED	
ENVIR	NMENT	AL QUALITY				
5.504.4		POLLUTANT CONTROL				-
5.504.4.1	A0.5	ADHESIVES, SEALANTS AND CA	ULKS			
		FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	voc	VOC LIMIT (GPL
5.504.4.2	A0.5	Indoor Carpet Adhesives	NuBroadLok, Mohawk Inc.	NuBroadLok, Mohawk Inc.	0	50
		Carpet Pad Adhesives	N/A			
5.504.4.2	A0.5 A0.5	Cove Base Adhesives	Interior Base General	Henry 440 Liquid Nails - Heavy Duty construction adhesive	70	50 70
5.504.4.3 5.504.4.4	A0.5	Multi-purpose Construction Adhesives 1 Contact Adhesive	General	Hankel - Loctite Light Cure	20	70
5.504.4.2	A0.5	Contact Adhesive	General	Hankel - Loctite Light Cure	20	70
	10.5	A-1-3- 454		Of an Armilliana Organization		
5.504.4.1 5.504.4.1	A0.5 A0.5	Architectural 1 Architectural 2	Exterior Exterior	Sherwin williams - 850A White Sherwin williams - Shermax clear	33 19	250 250
5.504.4.1	A0.5	Single ply roof Membrane	Roof Caulk/Sealer	Tremco - Future Flash Sealant	6	450
5.504.4.3	A0.5	PAINTS AND COATINGS				
	·	FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	voc	VOC LIMIT (GPL
5.504.4.3.1	A0.5	Aerosol Spray Flat Paint	Painted Surface	Krylon	<60	60
5.504.4.3	A0.5	Flat Coatings 1	Painted Surface	Sherwin Williams - Pro Mar 200 Zero	50	50
5.504.4.3	A0.5 A0.5	Flat Coatings 2	Painted Surface	Dunn Edwards Paints - Acra Hues Vista Paints	40 50	50 50
5.504.4.3	A0.5	Flat Coatings 3	Painted Surface	VISCA FAILES	50	30
		Wall Material 1	FRP Wall Covering	Glassco		
		Wall Material 1	Tackable Wall (Non-absorbent)	Chatfield Clarke		
			_L			İ
5.504.4.4	A0.5	CARPET SYSTEMS	MANUSA OTUDED	OF DITIED ATION ODG	ANDATION	
F 501	A0.5	FINISH Carpet	MANUFACTURER Mohawk Carpets	CERTIFICATION ORGA Carpet & Rug Institute - Green Label Plus Program	ANIZATION	[
5 504 4 4			anonant Carpeto	Outper a ring mount of order Euser's test rings and		
5.504.4.4						
5.504.4.4	-		LEBOARD, FIBERBOARD WOOD PROD	DUCTS		
	-	HARDWOOD PLYWOOD, PARTIC	LEBOARD, FIBERBOARD WOOD PROD		FORMALDEHYDE	FORMALDEHYD
5.504.4.5	-	HARDWOOD PLYWOOD, PARTIC	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	EMMISIONS	LIMIT
	A0.5	HARDWOOD PLYWOOD, PARTIC			1	
5.504.4.5 5.504.4.5	A0.5	HARDWOOD PLYWOOD, PARTIC FINISH Plywood	WHERE USED (TYPE) Roof / Floor	MANUFACTURER/SPECIFICATION	EMMISIONS	LIMIT
5.504.4.5	-	HARDWOOD PLYWOOD, PARTIC	WHERE USED (TYPE) Roof / Floor	MANUFACTURER/SPECIFICATION APA Rated	EMMISIONS <.05	LIMIT
5.504.4.5 5.504.4.5	A0.5	HARDWOOD PLYWOOD, PARTIC FINISH Plywood	WHERE USED (TYPE) Roof / Floor	MANUFACTURER/SPECIFICATION	EMMISIONS <.05	LIMIT
5.504.4.5 5.504.4.5	A0.5 A0.5	HARDWOOD PLYWOOD, PARTIC FINISH Plywood RESILIENT FLOORING SYSTEMS FINISH Vinyl Composition Tile Flooring	WHERE USED (TYPE) Roof / Floor MANUFACTURER Armstrong / Imperial	MANUFACTURER/SPECIFICATION APA Rated CERTIFICATION ORGANIZATION CA Dept. of Public Health's 2010 Standard Method for the T	EMMISIONS <.05	LIMIT
5.504.4.5 5.504.4.5 5.504.4.6	A0.5 A0.5	HARDWOOD PLYWOOD, PARTIC FINISH Plywood RESILIENT FLOORING SYSTEMS FINISH Vinyl Composition Tile Flooring Sheet Vinyl Flooring	WHERE USED (TYPE) Roof / Floor MANUFACTURER Armstrong / Imperial Mannington	MANUFACTURER/SPECIFICATION APA Rated CERTIFICATION ORGANIZATION CA Dept. of Public Health's 2010 Standard Method for the T CA Dept. of Public Health's 2010 Standard Method for the T	EMMISIONS <.05 Lesting esting	LIMIT
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2016 CALGREEN AND ENERGY CODE

02.20.2020 - BID SET - NOT FOR CONSTRUCTIL

DESIGN & CONSULTING . PROJECT 11777 Chamasoo Plaza Coust. Curte 105 San Guen, CA 92128 WOOD RETAMANESS COM

PROFESSIONAL STAMP



12/19/2017

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF RAS TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. @



ORIGINAL POSTATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0 AC RM FLS EA SSR KER DATE 07/19/2018

FILE NUMBER: PC-128

PROJECT TITLE

EXPANDABLE TO 120° x 40°

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239 DATE MAR n 7 20197

Revision Schedule

CALGREEN SPEC'S

PROJECT NUMBER

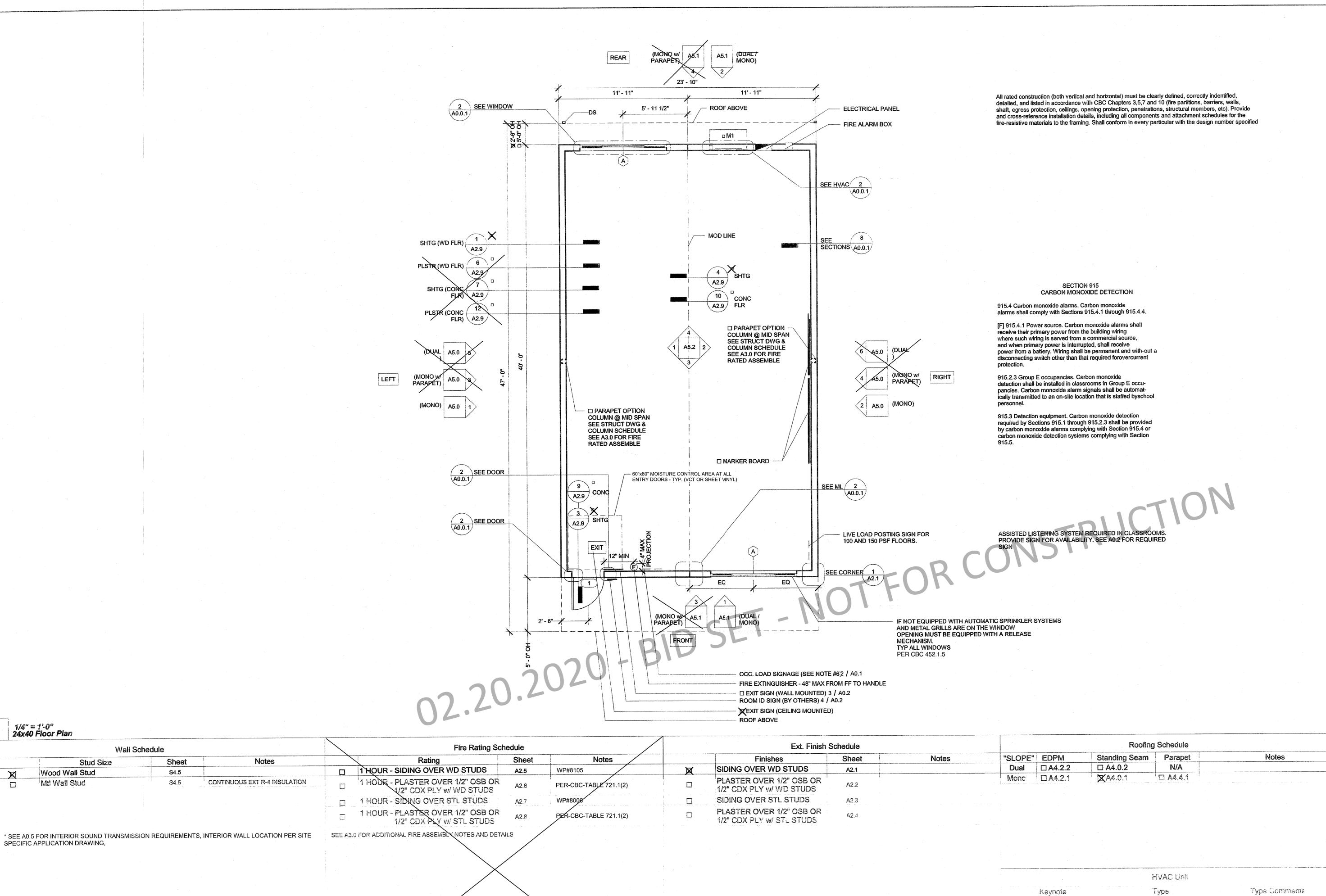
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TOTOA

أ يكا كالمنطولا

COMECKED BY

DATE 2017/06/05



1/4" = 1'-0" Ext. Finish Schedule

1/4" = 1'-0" 24x40 Floor Plan

Wall Schedule

Stud Size

Wood Wall Stud

Mtl Wall Stud

SPECIFIC APPLICATION DRAWING,

1/4" = 1'-0" Well Schedule

Sheet

S4.5

\$4.5

Notes

1/4" = 1'-0" Fire Rating Schedule

11777 BERNARDO PLAZA GOURT, SUITE 105 SAN DIEGO, CA 92128 WWW.RSTAVARES.COM PROFESSIONAL STAMP

12/19/2017

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ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0

AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE 24' x 40' **EXPANDABLE TO** 120' x 40'

> PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT 04 118239 ACS___FLS___SS / DATE MAR n 7 2019/

Revision Schedule Description

24x40 FLOOR PLAN

PROJECT NUMBER

17016A

DRAWN B

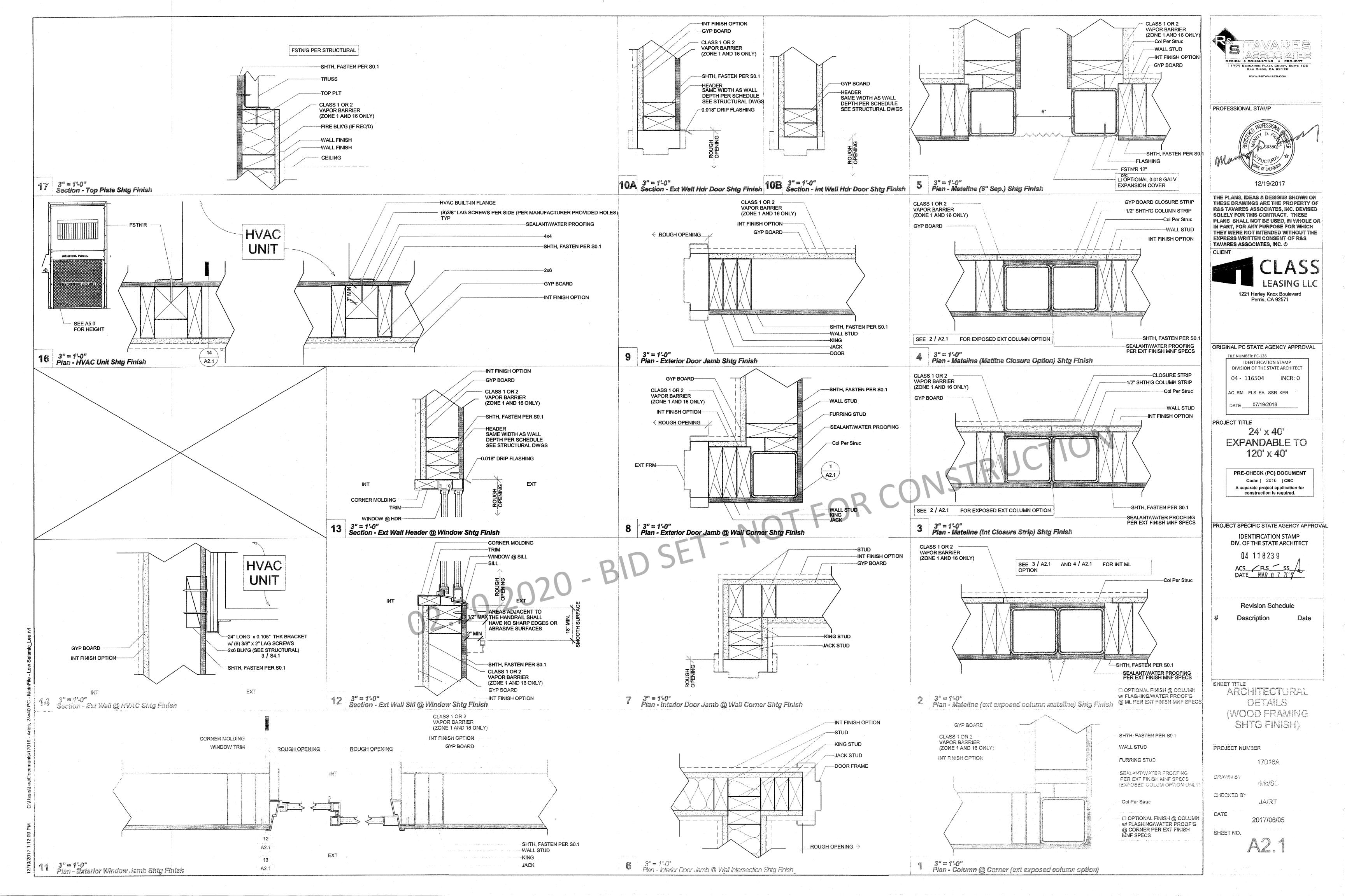
Wall Mounted HVAC

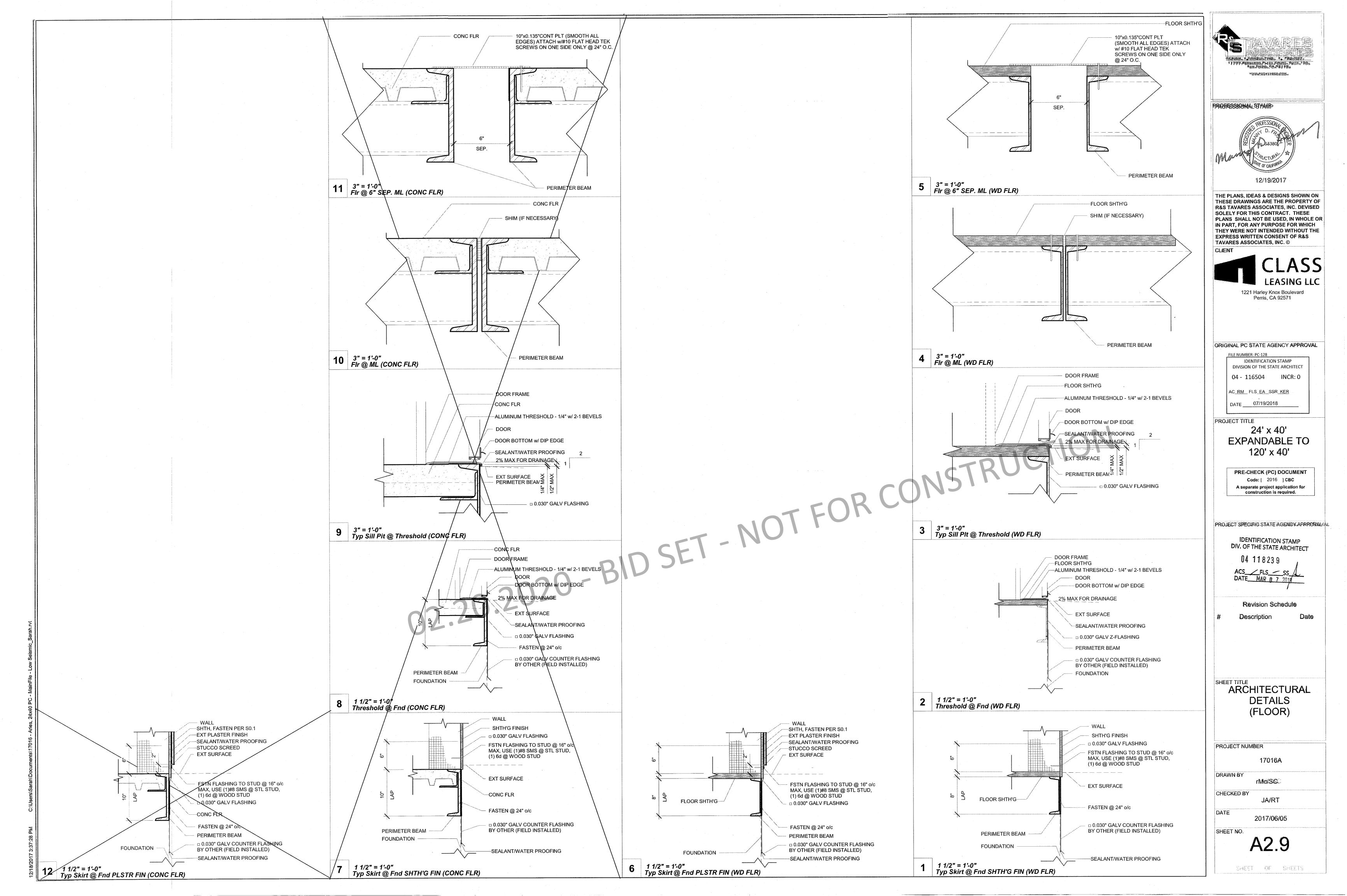
Roof Mounted HVAV

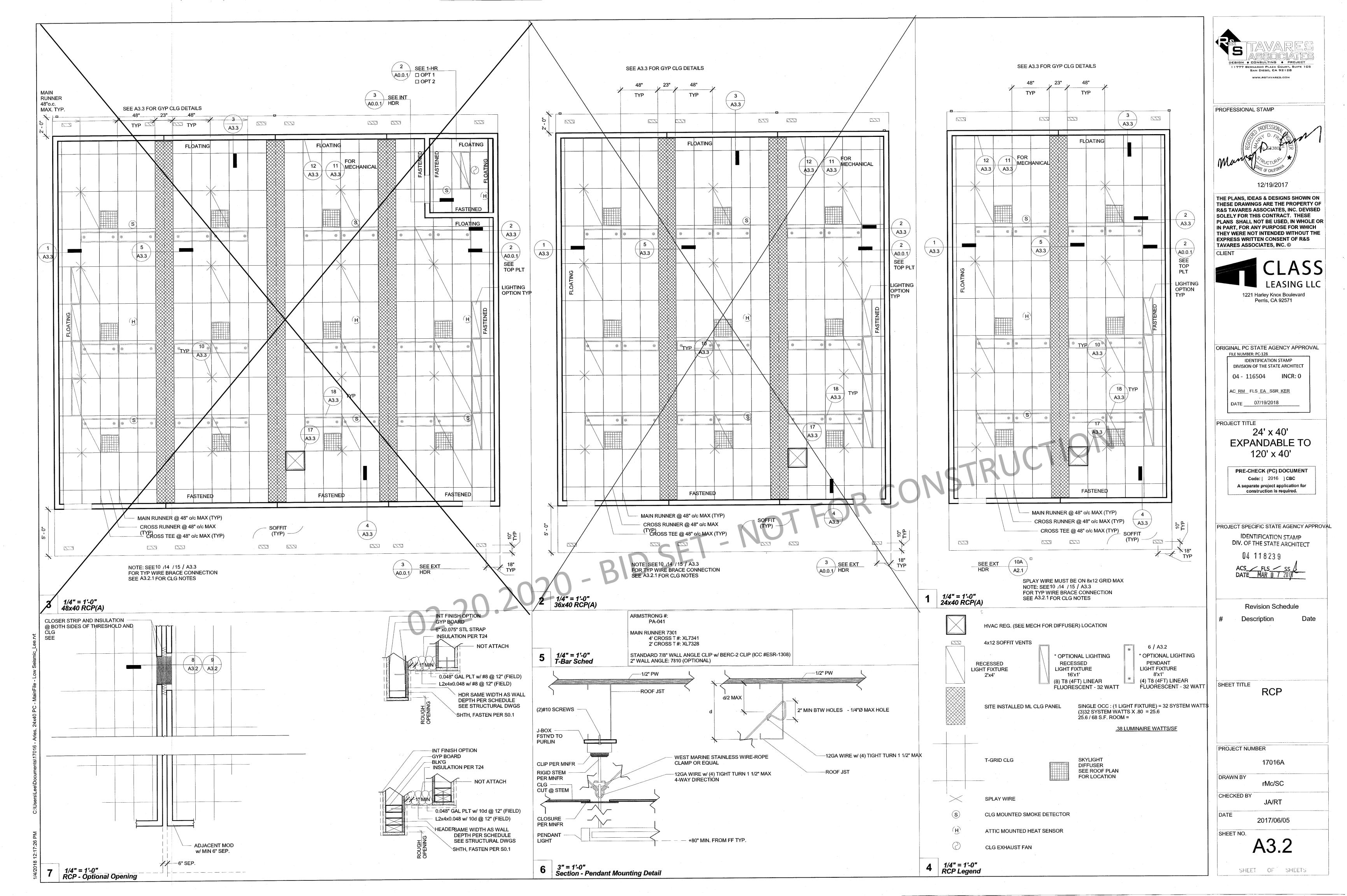
□ M2

See (M)-Sheets See (M)-Sheets CHECKED BY

DATE 2017/06/05







1.	CEILING SYSTEM GENERAL NOTES:	
1.01	Ceiling system components shall comply with ASTM C635-07 and	Section 5.1 c

1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08. 1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project: [For each system used, the RDP shall indicate in the construction documents, the information that follows]

Manufacturer's Name	ARMSTRONG			
Product Evaluation Repo	ort Type and Number	PA-041		
Manufacturer's Model N	• •	7301 .		(SEE A3.2
Manufacturer's catalog		4' CROSS T #: XL7341	*	
•		2' CROSS T #: XI 7328		

2 GROSS 1 #: XL/328 1.04 Seismic Wall Clip: [RDP to specify if used] STANDARD 7/8" WALL ANGLE CLIP w/ BERC-2 CLIP (ICC #ESR-1308) Manufacturer's Model 2" WALL ANGLE: 7810 (OPTIONAL)

1.05 Ceiling panels shall not support any light fixtures, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 34" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.

2. MATERIALS:

- 2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strenath = 70 ksi.
- 2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi.
- 2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

Basis Document: DSA IR 25-2.13			Sheet No:
Sheet Title:	rev.	09-21-15	1.00
Ceiling Notes			ا ۱.۵۵
		#300 # 31 E 100 W 3 # * * * * * * * * * * * * * * * * * *	

DSA IR 25-2.13 - Appendix A (rev 09/21/15)

3. ATTACHMENT OF HANGER AND BRACING WIRES:

- 3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.
- 3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.
- 3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
- 3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements. 3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the

direction of the wire, etc.) 4. FASTENERS AND WELDING:

- 4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed
- 4.02 Expansion anchors shall be: [RDP to indicate manufacturer, product, evaluation report number and load for each size specified per CBC 1913A.7.2.]
- 4.03 Power-Actuated Fasteners shall be: [RDP to indicate manufacturer, product, evaluation report number]
- 4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.
- 4.05 Power-actuated fasteners in concrete are not permitted for bracing wires.
- 4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.
- 4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.
- **TESTING:** All field testing must be performed in the presence of the project inspector.
- 5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.
- 5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.

Document:	DSA IR 25-2.13			Sheet No:
et Title:		rev.	09-21-15	= 4 04
Ce	eiling Notes			1.01

DSA IR 25-2.13 - Appendix A (rev 09/21/15)

6. LIGHT FIXTURES:

- 6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.
- 6.02 Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8)
- 6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
- 6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
- 6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above. Exception: All light fixtures greater than two by four feet weighing less than 56 lbs.

shall have a #12 gage slack safety wire at each corner.

6.06 All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.

SERVICES WITHIN THE CEILING:

- 7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
- 7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to
- 7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- 7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

Basis Document: DSA IR 25-2.13			Sheet No:
Sheet Title:	rev.	09-21-15	1 02
Ceiling Notes		· · · · · · · · · · · · · · · · · · ·	1.02

DSA IR 25-2.13 - Appendix A (rev 09/21/15)

8. OTHER DEVICES WITHIN THE CEILING:

from the structure above.

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors,

speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices

weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the

structure above. Devices weighing more than 20 lb. shall be supported independently

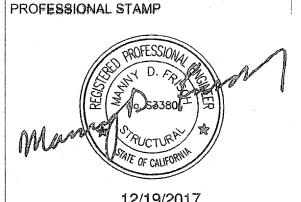
Sheet Title: 09-21-15 **Ceiling Notes**

DSA IR 25-2.13 - Appendix A (rev 09/21/15)

Basis Document: DSA IR 25-2.13

Sheet No:

11777 BERNARDO PLAZA DOURT, BUITE 185 SAN DIESO, SA 92128



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1221 Harley Knox Boulevard

ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: PC-128 IDENTIFICATION STAMP **DIVISION OF THE STATE ARCHITECT** 04 - 116504 INCR: 0 AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE 24' x 40' **EXPANDABLE TO** 120' x 40'

> PRE-CHECK (PC) DOCUMENT Code: | 2016 | CBC A separate project application for

> > construction is required

PROJECT/SPECIFIC STATE AGENCY APPROVAL/A

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

Revision Schedule

ACS___FLS___SS_/h DATE MAR 0 7 20/9

Description

CEILING NOTES

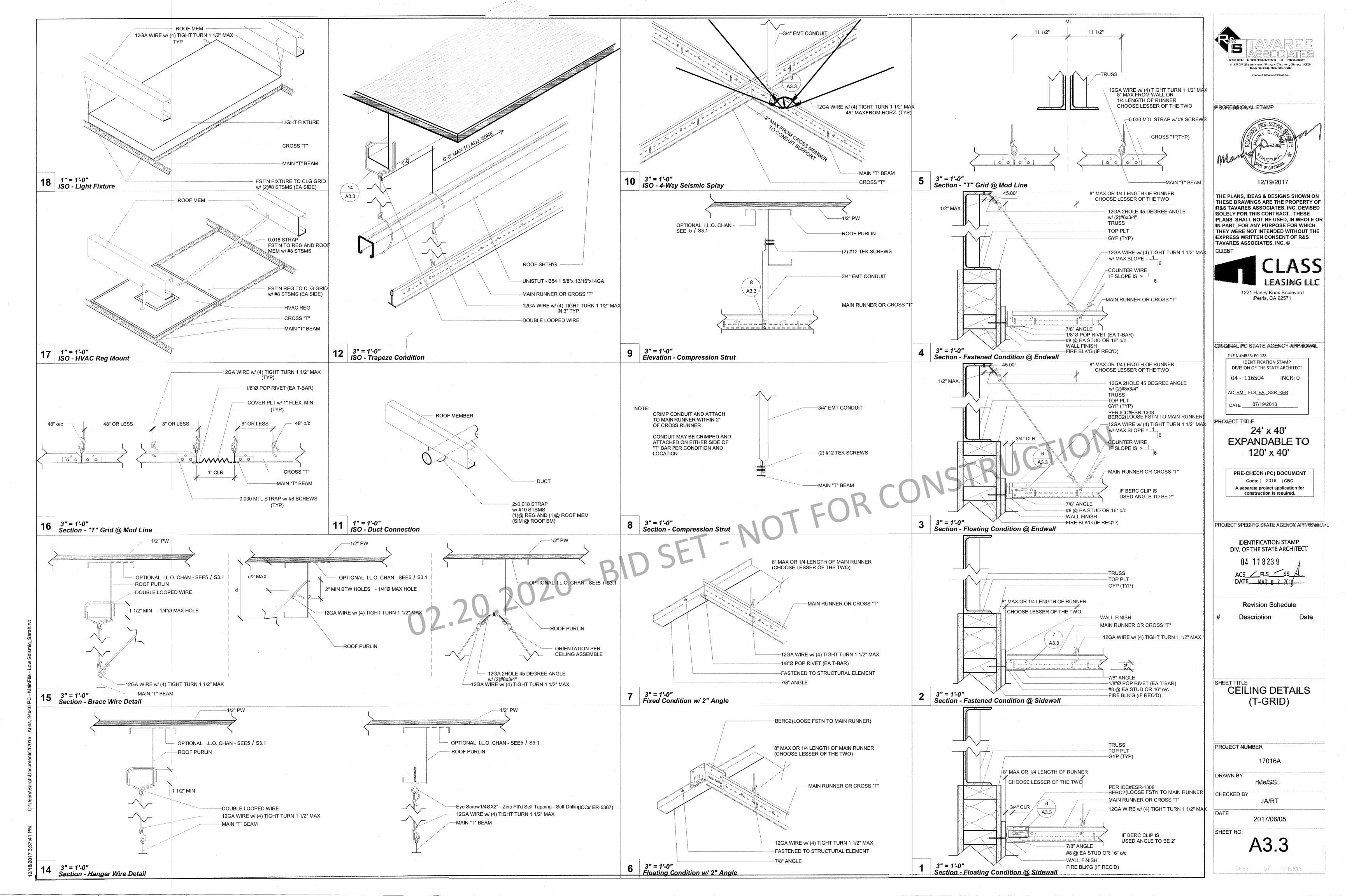
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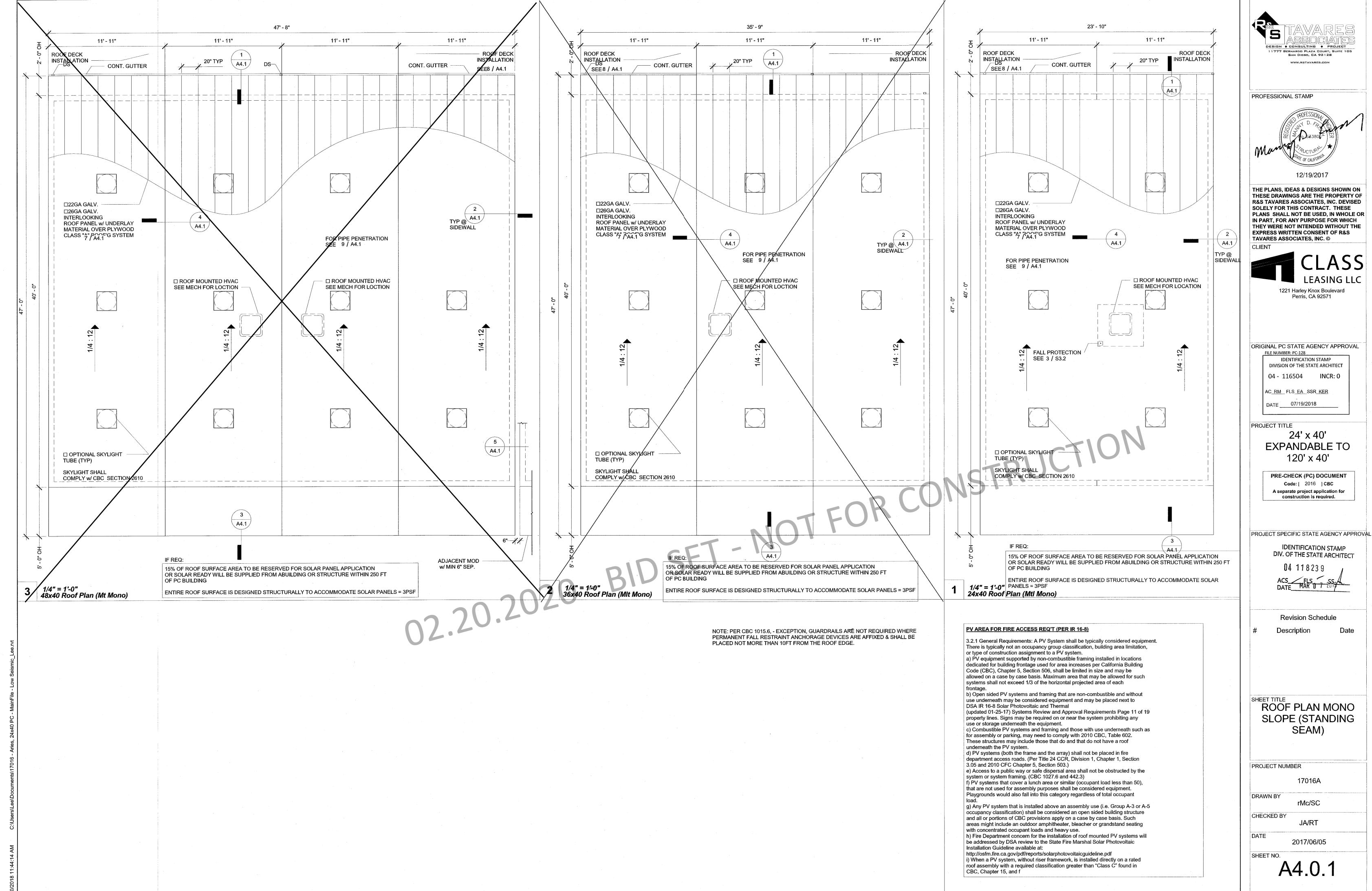
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CHECKED BY

2017/06/05

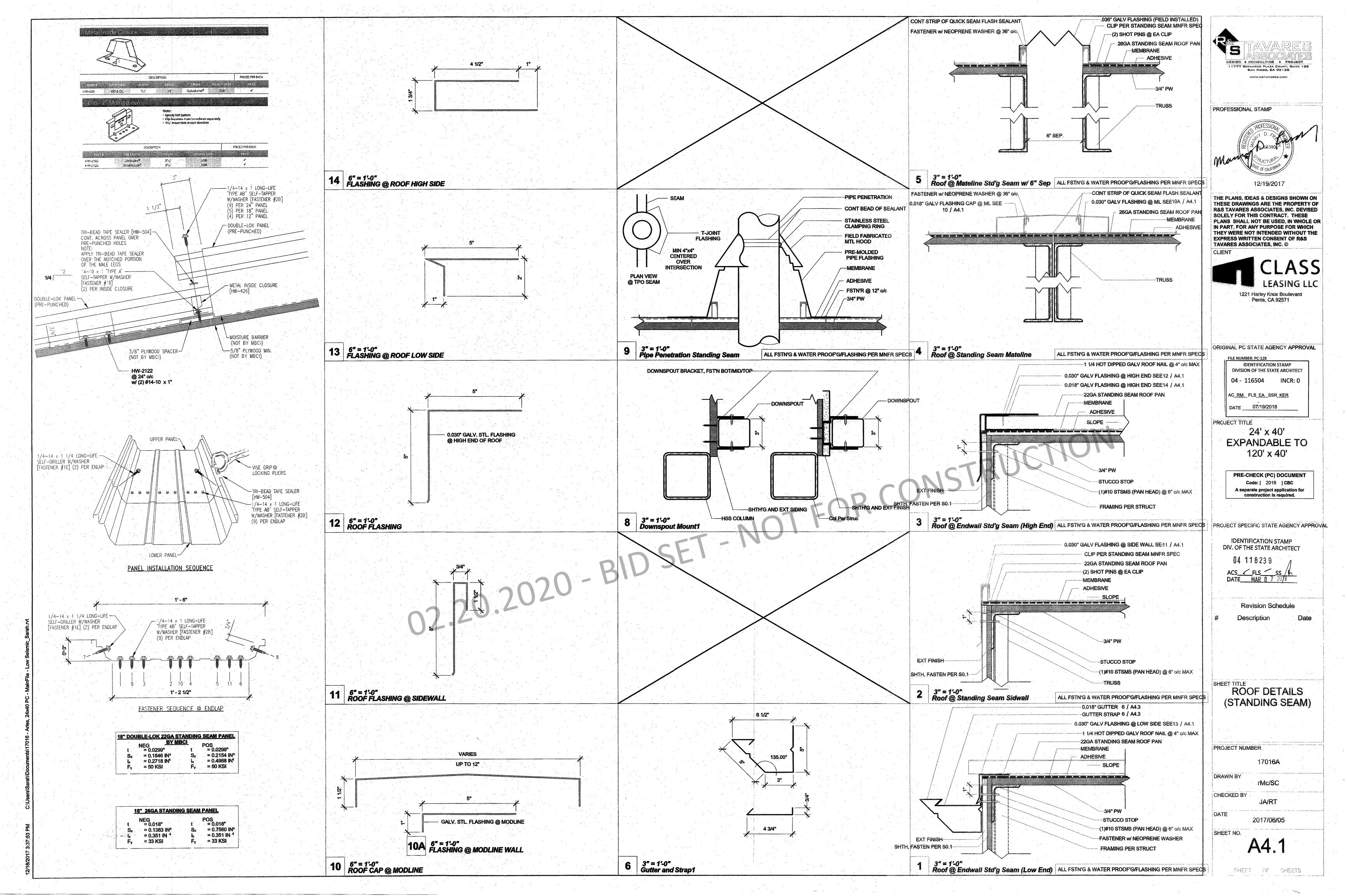
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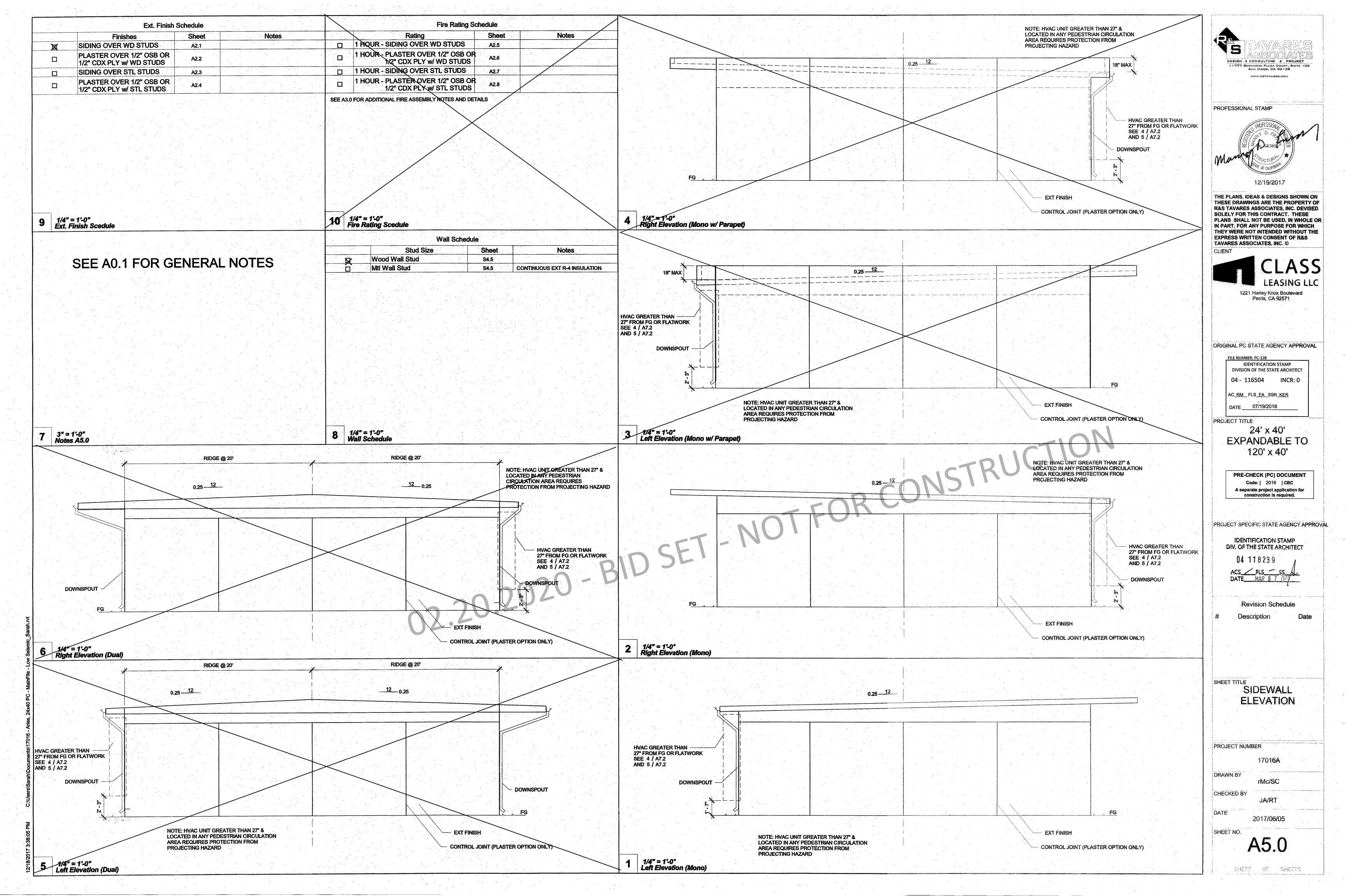


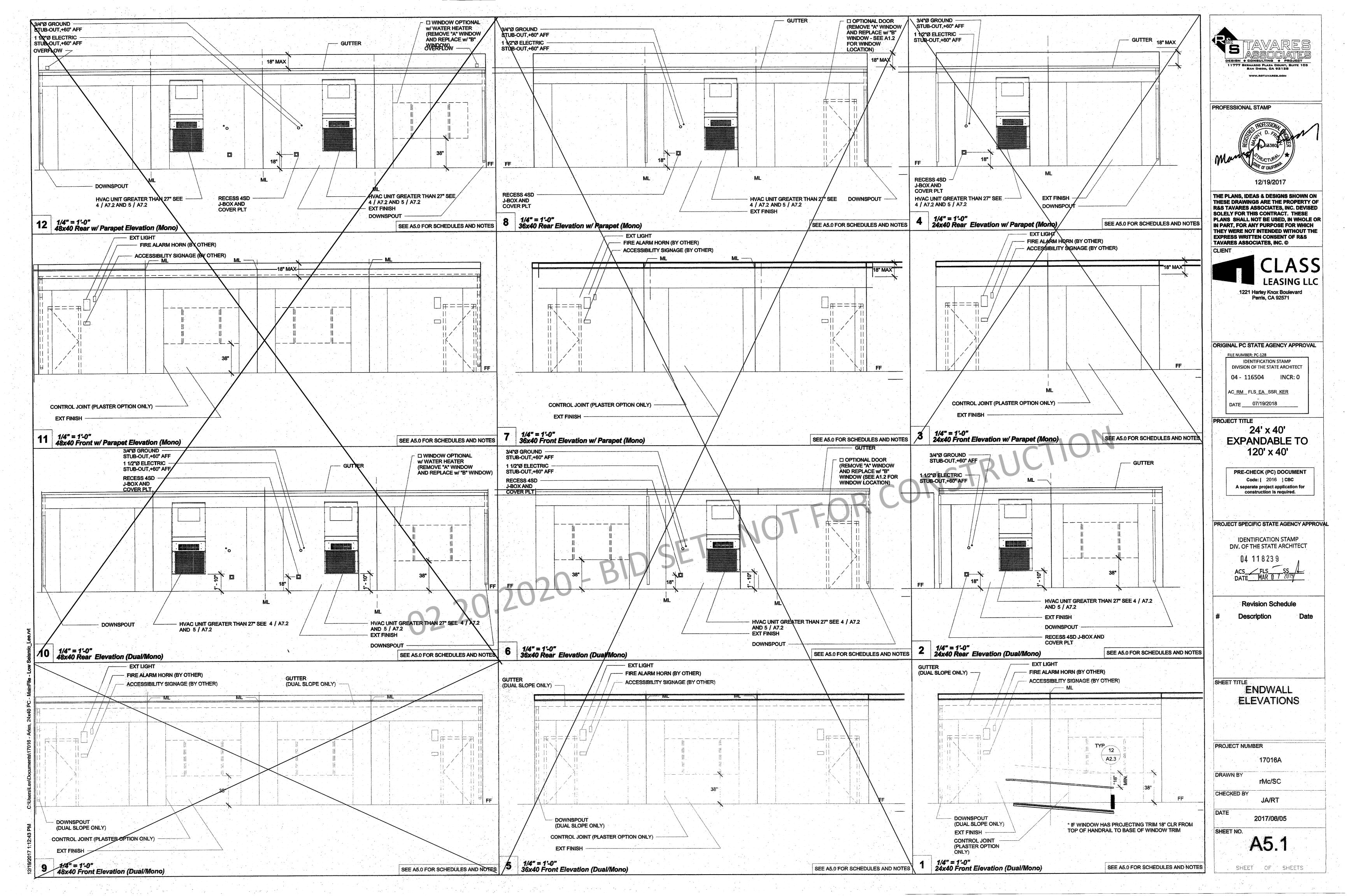


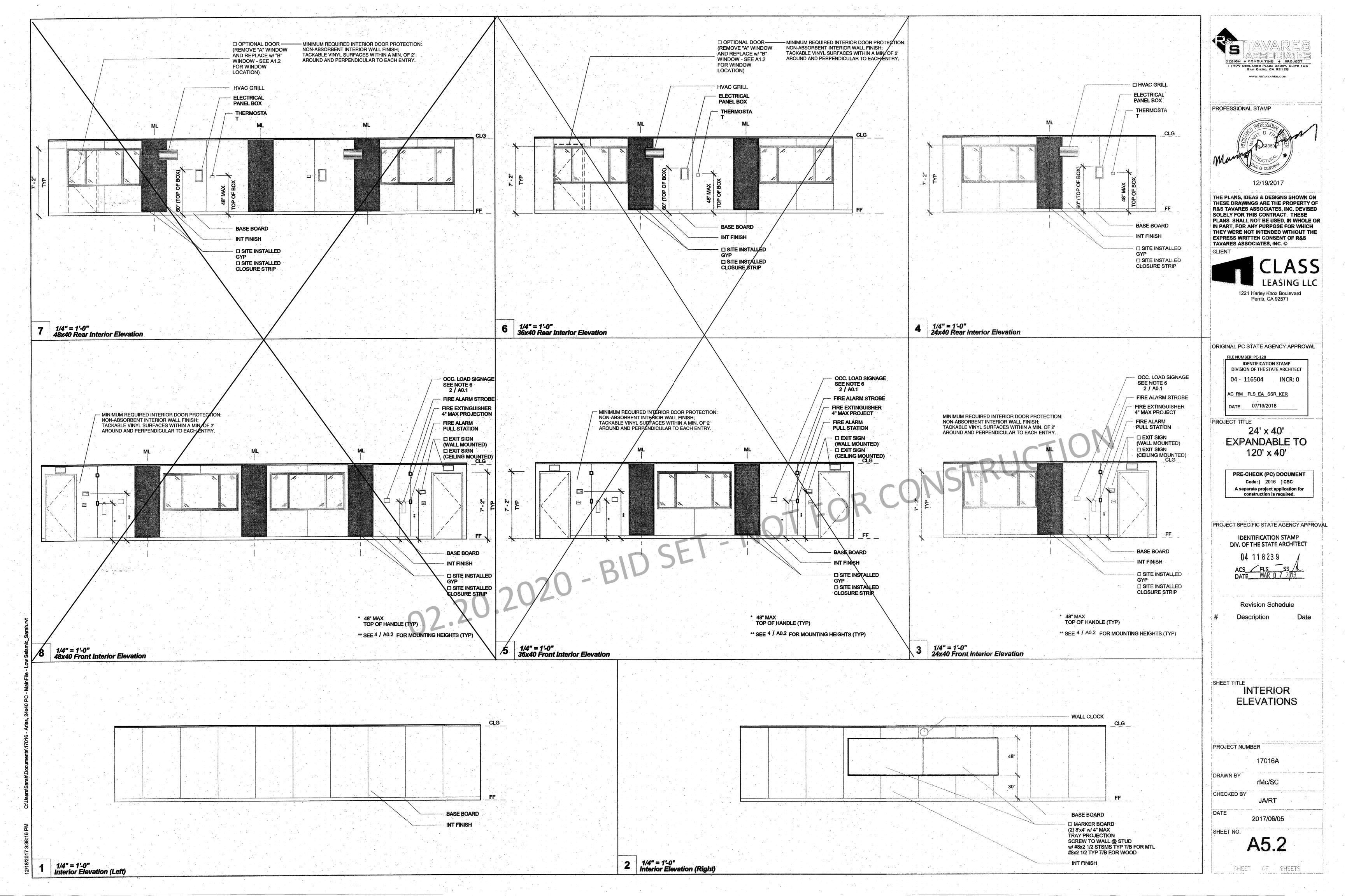


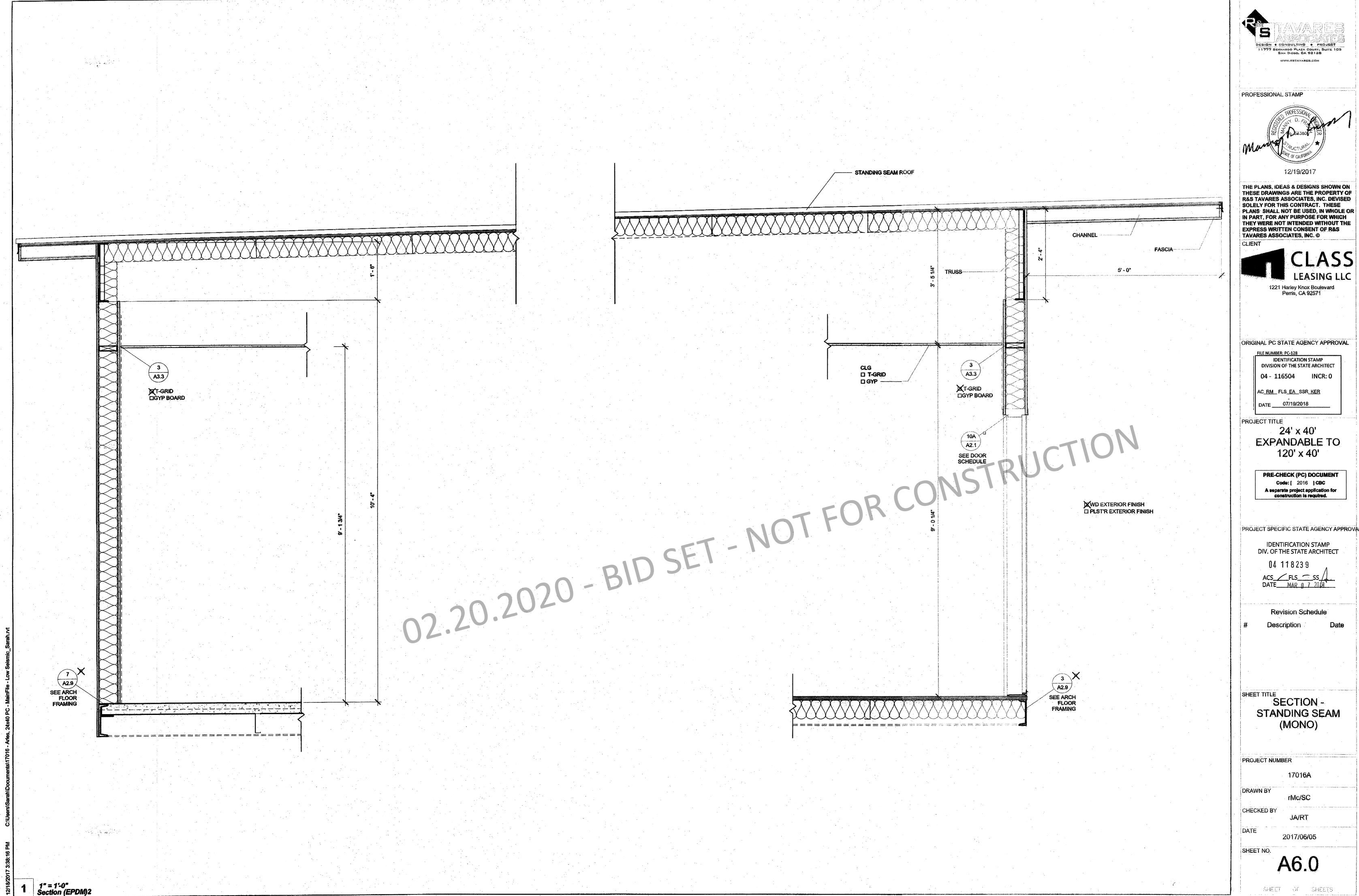




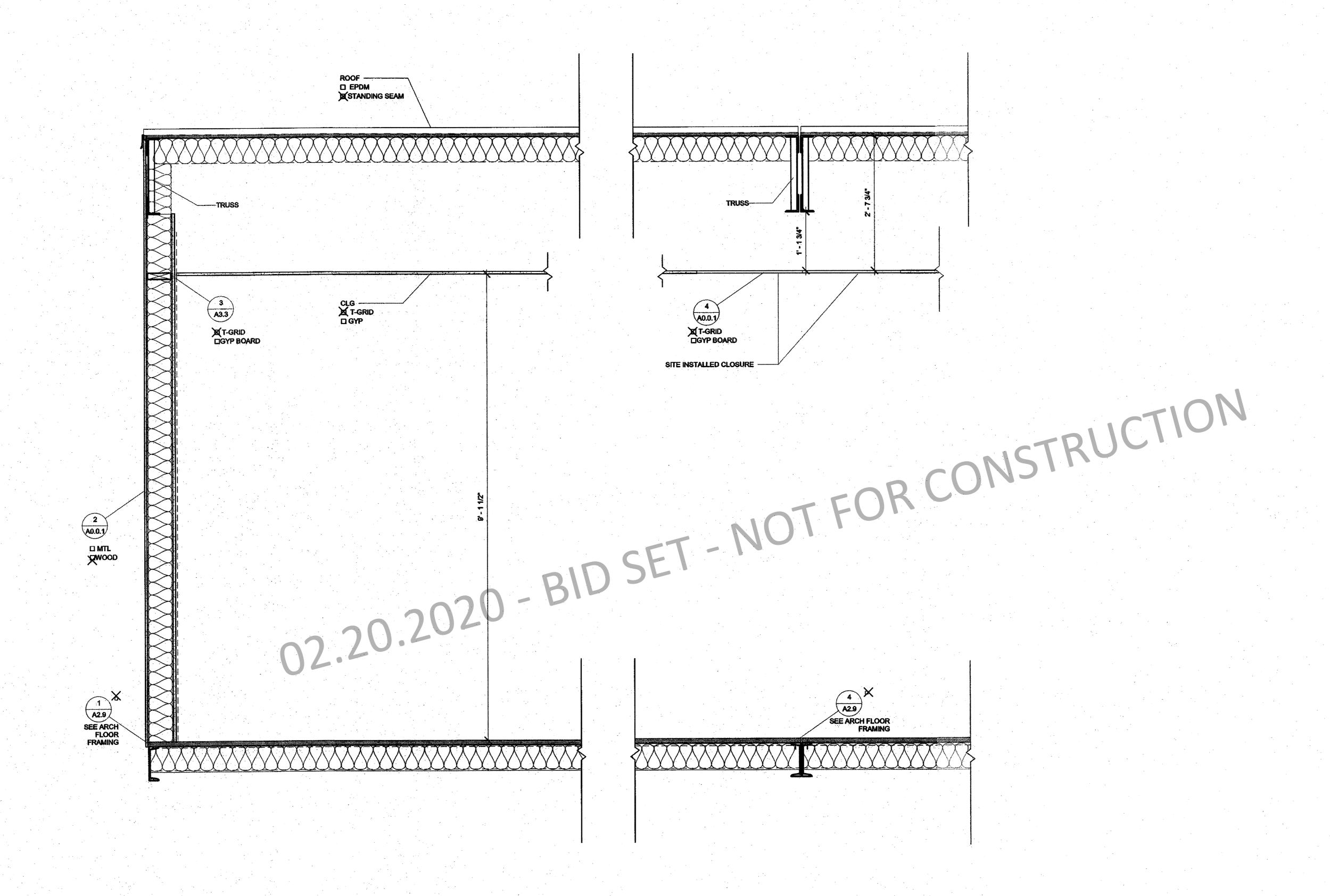








PROJECT SPECIFIC STATE AGENCY APPROVAL





PROFESSIONAL STAMP



12/19/20

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ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

AC_RM_FLS_EA_SSR_KER

DATE 07/19/2018

24' x 40'
EXPANDABLE TO
120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

04 118239

ACS___FLS__SS__
DATE___MAR @ 7 2019

Revision Schedule

Revision S

Description

SECTION

PROJECT NUMBER

17

DRAWN BY

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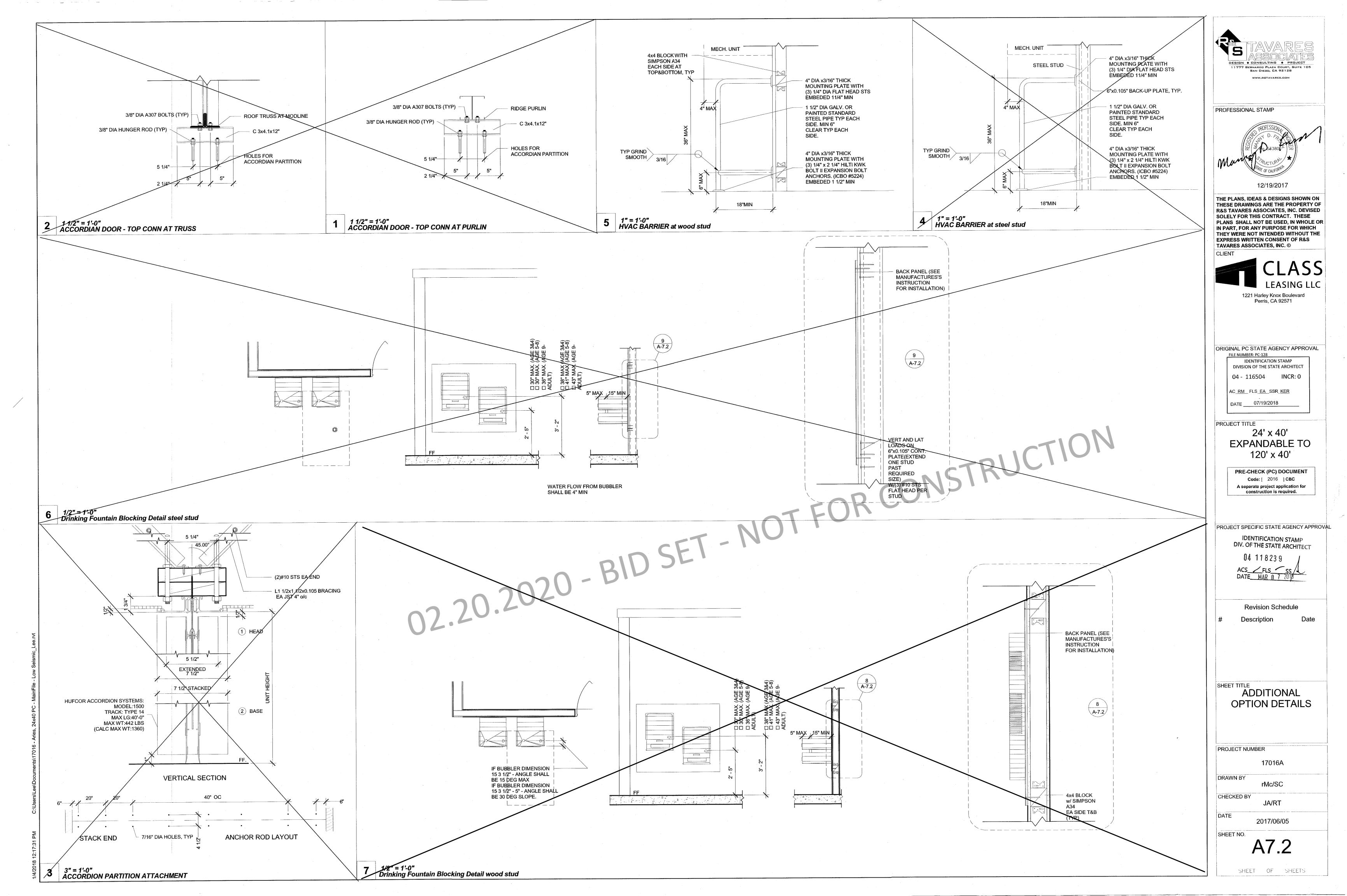
CHECKED BY

DATE

2017/06/05

A6.2

1" = 1'-0" Latitudinal Section



NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

1/2" WP NIPPLE BY MFG ELECT PANEL-RIGID CONDUIT WITH CONDUCTOR ATTACHED PANEL BUNDED-TO WALL W/ 2-HOLE TO GROUND STRAPS (SITE ELECT) CONDUCTOR TEE CONDULET FOR SEPARATE CONDUCTOR GROUND, BONDED TO SLU 70 GROUND LUG-5/8" BOLT-METAL FRAME (SITE ELECT) GROUNDING CLAMP (SITE ELECT)

STEEL CHANNEL

TO BE SUPPLIED AND
INSTALLED BY CLASS LEASING.

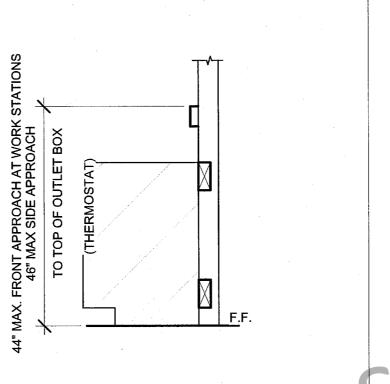
#8 Cu WIRE TO
BOTH #14 GROUND
TEKS, FIELD CONNECTED

MODLINE

NOTES:

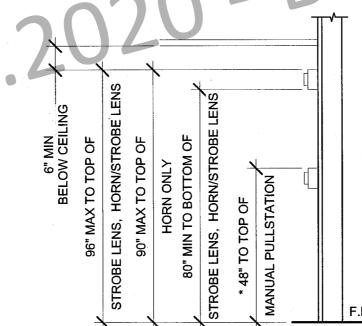
- 1. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L.
 PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE
 DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL
 UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH
 FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
- 2. CHECK RESISTANT TO GROUND ROD. IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).
- 3. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
- 4. ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.
- 5. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66

2 1 1/2" = 1'-0" TYPICAL GROUNDING DETAIL



* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

3 | 1" = 1'-0" ELEV. @ WORKSTATION 4 1" = 1'-0" MOUTING ELEV.



5 | 1" = 1'-0" | FIRE ALARM MOUNTING HEIGHTS

* PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

THE SWITCH OR SWITCHES INSTALLED IN

EMERGENCY LIGHTING CIRCUITS SHALL BE SO ARRANGED THAT ONLY AUTHORIZED PERSONNEL WILL HAVE CONTROL OF EMERGENCY LIGHTING. (CEC art. 700.20)

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.

TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250

EQUIPMENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
 TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS
- 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

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

PIPING, DUCTWORK AND ELECTRICAL SYSTEM BRACING OF

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.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 #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FIRE ALARM NOTES

PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B).
BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES, THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE	CAPACITY	WIRE		NO. OF COI	NDUCTOR	₹
SIZE		TYPE	1/2" C	3/4" C:MI	TT1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1 .	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

DOV	CIZE	CLLIN	MAX	X NO. OF	CONDUC	TORS
BOX	SIZE	CU. IN.	#12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	、6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX DESIGN + CONSULTING + PROJECT
11777 BERNARDO PLAZA COURT, SUITE 105
SAN DIEGO, CA 92128

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CLASS LEASING LLC

1221 Harley Knox Boulevard

Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

AC_RM_FLS_EA_SSR_KER

DATE ____07/19/2018

PROJECT TITLE

24' x 40' EXPANDABLE TO 120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for

construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

DENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

04 118239

ACS / FLS / SS / A

Revision Schedule

Description

SHEET TITLE
ELECTRICAL PLAN

24x40

PROJECT NUMBER

DATE

17016A

DRAWN BY rMc/SC

CHECKED BY

JA/RT

2017/06/05

SHEET NO.

E1.0

SHEET OF SHEETS

1/4" = 1'-0" ELECTRICAL PLAN

DANIEL A OAR 408	120/2	08 VOLTS, 1	φ, 3 W	IRE		M/	AIN LU	JGS ONLY	PANEL B	OX= 100A
PANEL A 24" x40"	LOADCEN	TER	SURF	ACE I	MOL	NTE)	GRD & NEU	JTRAL BARS	AMP BUS
	VOL	TAMPS		100	000	AIC		V	OLTAMPS	
DESCRIPTION	φА	φВ	C/B	СКТ	ф	CKT	C/B	φА	φB	DESCRIPTION
AC WALL MOUNTED	6670		30	1	Α	2	20	720		OUTLETS
		6670	30	3	В	4	20		720	OUTLETS
GENERAL LIGHTING	768		20	5	Α	6	20	40		EXTERIOR LIGHT
EXTERIOR GFI/WP		180	20	7	В	8	20			
			20	9	Α	10	20	40		FIRE ALARM
			1							
	ф A 7390	ф В 6850					: :	фА 800	ф В 720	
SUBTOTAL	7 330	0000					<u> </u>	000	120	SUBTOTAL
TOTAL	8190	7570		1, 11) /120 VOLT 6.25 AMPS		

1" = 1'-0" ELECTRICAL PANEL_WALL MOUNTED

	120/20	3 VOLTS, 3	φ, 3 W	IRE		M/	AIN LU	IGS ONLY	PANEL BO	OX= 100A
PANEL A 24" x40"	LOADCENT	ER	SURF	ACE N	UON	NTE)	GRD & NEU	TRAL BARS	AMP BUS
	VOLT	AMPS		100	000	AIC		VO	LTAMPS	
DESCRIPTION	φА	φB	C/B	СКТ	ф	СКТ	C/B	φА	φВ	DESCRIPTION
AC Roof Mounted	7360		30	1	Α	2	20	720		OUTLETS
		7360	30	3	В	4	20		720	OUTLETS
SENERAL LIGHTING	768		20	5	Α	6	20	40		EXTERIOR LIGHT
EXTERIOR GFI/WP		180	20	7	В	8	20			
			20	9	Α	10	20	40		FIRE ALARM
								0		
SUBTOTAL	ф А 8080	φB 7540	Z					фА 800	ф В 720	SUBTOTAL
TOTAL	8880	8260				/	8880	/120 VOLT: 74 AMPS +		AMPS

LEGEND

ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT

ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS

WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS

100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT

4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-O" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING

4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING

4SD J-BOX FOR FIRE ALARM STROBE (DEVICE BY OTHERS). BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4"CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING

4SD J-BOX FOR FIRE ALARM PULLSTATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING

EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL.

CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE

EXTERIOR LED LIGHT FIXTURE. 30W MAX WITH , 90 MIN BACKUP PATTOCY MOUNT AT +93" AFF

ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS

OF BOX

EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)

DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE. MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX

3-WAY LIGHT SWITCH, MOUNT AT+48" AFF TO TOP OF SWITCH BOX

LIGHT SWITCH, MOUNT AT+48" AFF TO TOP OF SWTICH BOX

SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMDM-101 OR EQUAL

SINGLE SWITCH WALL OCCUPANCY SENSOR.
WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.

ULTRASONIC CEILING OCCUPANCY SENSOR.
WATTSTOPPER W-500A OR EQUAL SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.

PC CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500 OR EQUAL

CARBON MONOXIDE PER CBC SECTION 915

CEILING MOUNTED OCCUPANCY SENSOR.
WATTSTOPPER #LMPC-100 OR EQUAL.

2x4 CEILING LIGHT WITH (3) T-8 LAMPS, LAY-IN FLUORESCENT LIGHT FIXTURE WITH DIMMABLE BALLAST ORACLE LIGHTING MODEL: 24-OT-3-32-T8-A12-L41K-C4 WATTAGE: 96W (3 LAMPS/32W/T8) OR EQUAL

2x4 CEILING LIGHT WITH (3) T-8 LAMPS, LAY-IN FLUORESCENT LIGHT FIXTURE WITH DIMMABLE BALLAST ORACLE LIGHTING MODEL: 24-OT-3-32-T8-EMG-T8-BX-600-A12-L41K-C4 WATTAGE: 96W (3 LAMPS/32W/T8) OR EQUAL EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE Equipped WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

SHALL COMPLY W/ CEC 700.20

1 1777 BERNARDO PLAZA COURT, SUITE 105 SAN DIEGO, CA 92128 WWW.RSTAVARES.COM

PROFESSIONAL STAMP



12/19/2017

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

1221 Harley Knox Boulevard

Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0

AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE 24' x 40' **EXPANDABLE TO** 120' x 40'

> PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

> 04 118239 ACS FLS SS DATE MAR 0 2019

Revision Schedule

Description

ELECTRICAL SCHEDULES 24x40

PROJECT NUMBER

17016A DRAWN BY

CHECKED BY

JA/RT

2017/06/05 SHEET NO.

SHEET OF SHEETS

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

ELECTRICAL PANEL_ROOF MOUNTED

1" = 1'-0" LEGEND

EC-NRCC-LTI-01-E (Rev CERTIFICATE OF CC Indoor Lighting Project Name: 120'x40	TING												
Indoor Lighting		Œ									CALIFORNIA ENERGY (CC-LTI-C
	WAIN	-											age 1 c
)' (PC 04-11	.6504)								Date Prepared:	06/25/2018		
A. General Inform	matics												
A. General Inforr Climate Zone:		onditione	d Floor	Area: 4800			· · · · · · · · · · · · · · · · · · ·						
	Uı	nconditio	ned Flo	or Area:									
Building Type:				Nonresidential				ligh-Rise Resi			Hotel/Motel		
Schools				Relocatable Pu		iools		Conditioned S	paces		Unconditioned Spaces		
Phase of Construct				New Construct				ddition			Alteration		
Method of Complia Project Address:	ance:			Complete Build	ing 		<u> </u>	rea Category			Tailored		
Toject Address.													
3. Lighting Comp	diance D	ocumen	ts (sele	ect yes for ea	ch doc	ument inclu	ıded)						
or detailed instructi	ions on the				cy Stand	ards complian	ce docun	nents, refer to	the Nonresident	ial Manual publ	ished by the California Energy	Commiss	sion.
YES •	NO O		/IP. DOC. -LTI-01-E		of Comp	liance All Do	ges regu	ired on plans f	or all submittals				
• • • • • • • • • • • • • • • • • • •	0		-LTI-01-E -LTI-02-E		·····						olans for all submittals.		
•	0		-LTI-03-E			ver Allowance						·	
0	0		-LTI-04-E										
0	<u> </u>		-LTI-05-E			ighting Works							
0	<u> </u>	- NACC-	-LTI-06-E	. Indoor Light	ting Lais	ting Condition							
TATE OF CALIFORNIA NDOOR LIGH EC-NRCC-LTI-01-E (Re	ITING)									CALIFORNIA ENERGY	COMMIS	SION
CERTIFICATE OF C	OMPLIAN	CE											CC-LTI- Page 4
Indoor Lighting Project Name: 120'x46	0' (PC 04-1	16504)			#H955					Date Prepared:	06/25/2018	,,	1 050 4
G. Installed Port	l . l		: Off:		:	Castian 140	\ C(-)						
this compliance This section is u	e documer used to def ate line for	nt. termine if r each dif	f greate ferent o	r than 0.3 wat	ts of po	ortable lightir at are typica	ng is plai	nned for any	office		naires shall be documented may be grouped together.		
						Installed Po		uminaire W/f			Office Location	Field	Inspe
Office Portab	01			02	03	04 Installed	05	06	07 If G06 ≤ 0.3,	08	09		10
Office Portab					ΕŽ	portable	of:	Watts	enter		Identify Office area in		
Office Portab					Number of Luminaires	luminaire watts in	Square feet of this office	per square	zero;	(G05 x G07)	which these portable	Pass	9
	umin=!=- ^	locori-+:				. wates in	. * -	square	I	I	i	, 01	-
Office Portab Complete L (i.e., LED, under c				Watts per	er of aires	this office	fice	foot	If G06 > 0.3,		luminaires are installed		
Complete L (i.e., LED, under c		niture mo		Watts per Luminaire	er of aires	this office (G02 x G03)	fice	foot (G04 / G05)	·		luminaires are installed		
Complete L (i.e., LED, under c	cabinet, fur	niture mo		1	er of aires	this office (G02 x G03)	fice	foot (G04 / G05)	·	0	luminaires are installed	0	. (
Complete L (i.e., LED, under c	cabinet, fur	niture mo		1	er of lines	this office (G02 x G03)	fice	foot (G04 / G05)	·	0 0 0	luminaires are installed	0 0	
Complete L (i.e., LED, under c	cabinet, fur	niture mo		1	er of error	this office (G02 x G03) 0	fice	foot (G04 / G05)	·	0	luminaires are installed	0	
Complete L (i.e., LED, under c	cabinet, fur	niture mo		1	er of lines	this office (G02 x G03) 0 0 0	fice	foot (G04 / G05)	·	0		0 0 0	
Complete L (i.e., LED, under c	cabinet, fur rect/indirec	niture mo	ounted	Luminaire		this office (G02 x G03) 0 0 0 0		(G04 / G05)	(G06-0.3)	0 0 0	Enter sum total of all page	0 0 0	
Complete L (i.e., LED, under c	cabinet, fur rect/indirec	niture mo	ounted	1		this office (G02 x G03) 0 0 0 0		(G04 / G05)	(G06-0.3)	0 0 0		0 0 0	
Complete L (i.e., LED, under c	cabinet, fur rect/indirec	niture mo	ounted	Luminaire		this office (G02 x G03) 0 0 0 0		(G04 / G05)	(G06-0.3)	0 0 0	Enter sum total of all page	0 0 0	0
Complete L (i.e., LED, under c	cabinet, fur rect/indirec	niture mo	ounted	Luminaire		this office (G02 x G03) 0 0 0 0		(G04 / G05)	(G06-0.3)	0 0 0	Enter sum total of all page	0 0 0	

ndoor	Lighting	- Lighting Controls (Page 1 of 3)
roject Nam	^{ne:} 120'X40	Date Prepared: 06/25/2018
. Mai	ndator	ry Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)
YES	NO	Control Requirements
•	0	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
0	0	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
0	•	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
0	•	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
o	0	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
•	0	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
0	•	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
0	0	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
0	0	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
•	0	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
0	•	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
•	0	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

	R LIGHT TI-01-E (Revi:				CALIFOR	DAIIA CAIC	- DOV	COMMISSION
	TE OF CO				CALIFOR	KNIA ENE	KGY	NRCC-LTI-01
Indoor Lig	hting	•	i-					(Page 2 of
Project Nam	ie: 120'x40'	(PC 04-116504)			Date Prepared: 06/25/2018			Anagagana Atau atau atau atau atau atau atau ata
		· · · · · · · · · · · · · · · · · · ·		. •				
C. Summ	nary of Al	lowed Lighting Power						
Condition	ned and Ur	nconditioned space Lighting must not be combined	d for	compliance				
		Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Uncond	ditioned	d Sp	aces
				Watts	1			Watts
01		Installed Lighting	Ι.	3840	Installed Lig NRCC-LTI-01-E, Table H, p		,	
		NRCC-LTI-01-E, Table H, page 5 Portable Only for Offices	+		NRCC-LIT-U1-E, Table H, p	age 5	+ 1	
02		NRCC-LTI-01-E, Table G, page 4	+	6 - -				
03		Minus Lighting Control Credits	Ι.	711	Minus Lighting Control Co		_	-
		NRCC-LTI-02-E, page 2	L	,,,,	NRCC-LTI-02-E, p			
04		Adjusted Installed Lighting Power	=	3129	Adjusted Installed Lighting P (row 1 minus re		=	0
		(row 1 plus row 2 minus row 3) Complies ONLY if Installed ≤ Allowed (Box 04 < Bo	x 05	 }	Complies ONLY if Installed ≤ Allowed (Box		Ox 0	5)
				,				-,
		Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1			Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1			
05	Δltor	ations with replacement luminaires that have at least		5280	Alterations with replacement luminaires that have	at least		
		ower power compared to the original existing luminaire	s,	3200	50/35% lower power compared to the original existing		- 1	
	may ins	tead use the allowed wattage from NRCC-LTI-06, page 2	2		may instead use the allowed wattage from NRCC-LTI-	06, page	2	
D. Declai	ration of	Required Certificates of Installation						
Declare b	y selecting	yes for all of the Certificates that will be submitte	d. (R	etain copies and	verify forms are completed and signed.)			
YES	NO	Form/Title						
•	0	NRCI-LTI-01-E - Must be submitted for all buildi	ngs			☐ Fie	eld Ir	nspector
•	0	to be recognized for compliance.			r an Energy Management Control System (EMCS),	☐ Fie	eld Ir	nspector
0	•	NRCI-LTI-03-E - Must be submitted for a line-vo overcurrent protection panel used to energize of				☐ Fie	eld Ir	nspector
0	•	NRCI-LTI-04-E - Must be submitted for two interconference room, a multipurpose room, or a th				☐ Fie	ld Ir	nspector

NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA INDOOR LIGHTING

CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE

Indoor Lighting

NRCC-LTI-02-E

NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for

Project Name:	120'x40' (PC 04-116504)						Date Prepared: 06/25/2018		Tanan rannulas od anam
CONDIT	Lighting Schedule Must Be Filled Out for Condition IONED SPACE UNCONDITIONED SPACE Lighting Schedule and Field Inspection Ene	E		d Spaces.	installed L	ighting Pow	er listed on this Lighting Schedule is	only for:	
	Luminaire Schedule			nstalled Wa	tts		Location	Field In	spector 1
01	02	03	(04	05	06	07		08
			1	ttage was mined		ırea			
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 xH05)	Primary Function area in which these luminaires are installed	Pass	Fail
L-1	3-LAMP/32W/T8	96	V		40	3840		0	. 0
					-	0		0	0
						0		0	0
						0		0	0
						0		0	0
					,	0		0	0
						0		0	0
						0		0	0
						0		0	0
		INS	TALLED W	ATTS PAG	E TOTAL:	2460	Enter sum total of all pages into		

	INS	TALLED W	ATTS PAG	E TOTAL:	3160	Enter sum total of all pages into	
		-			3100	NRCC-LTI-01-E; Page 2	
			15		S		
CA Building Energy Efficiency Standards - 2016 Nonresidential Complia	ance						April 2016
STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS							
CEC-NRCC-LTI-02-E (Revised 01/16)						CALIFORNIA ENERGY	COMMISSION
CERTIFICATE OF COMPLIANCE							NRCC-LTI-02-E
Indoor Lighting - Lighting Controls						-	(Page 2 of 3)
Project Name: 120'X40' (PC 04-116504)						Date Prepared: 06/25/2018	

Indoor Lighting - Lighting Controls	·
Project Name: 120'X40' (PC 04-116504)	Date Prepared: 06/25/2018
A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is	used only for the following:

	scriptive Indoor Lighting Contro		, , , , , , , , , , , , , , , , , , ,	-						PAF Credi		llation 2		T	_
Ligi	nting Control Schedule				that ap	Comply oply, or exempte	leave e			Watts of Controlled Lighting	PAF	Control Credit (11 x 12)	✓ if Acceptance Test Required		Field Inspector
01	02	03	04	05	06	07	08	09	10	11	12	13	14		15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	
CLASSROOM	AUTOMATIC DAYLIGHT	10	+	٠	•	•		•		790	.10	79		0	
CLASSROOM	OCCUPANCY SENSOR	3	•	•	•	•		•		3160	.20	632		0	
												0		0	1
		<u> </u>										0		0	\downarrow
												0		0	1
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· · · · · · · · · · · · · · · · · · ·		l				C-	adia DA	CF TO	TAL /C	 m of Columi	. 12\.	0		0	
	IF MULTIPLE PAGES ARE USED, EN	ITER SI IM	TOTAL	OF Con									711		_
· · · · · · · · · · · · · · · · · · ·	II MOLIII LE I AGLO AIRE OOLD, LI	TILIT SOIVI	TOTAL			uit IOI	an page	23 I ILI	ic (Julii		11 13].	Enter Co into NRC			

2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is

Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.

also required to be filled out, signed, and submitted.

		MPLIANCE	 	·	N
Indoor Ligh					
Project Name	^{::} 120'x40'	(PC 04-116504)	Di	ate Prepared: 06/25/2018	
r Dadam		Daniel Cartificator of Association			· · · · · · · · · · · · · · · · · · ·
1		Required Certificates of Acceptance			
Declare by	selecting	yes for all of the Certificates of Acceptance that will be submitted. (Retai	in copies and verify form	ns are completed and sign	ned.)
YES	NO	FORM/TITLE			
⊙ .	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automa	atic time switch control	5.	☐ Field Inspect
•	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.			☐ Field Inspect
0	0	NRCA-LTI-04-A - Must be submitted for demand responsive lighting co	ntrols.		☐ Field Inspect
0	•	NRCA-LTI-05-A - Must be submitted for institutional tuning power adju	ıstment factor (PAF).		•

When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines

Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.

☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA

INDOOR LIGHTING - LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16)

CERTIFICATE OF COMPLIANCE

Indoor Lighting - Lighting Controls

☐ Field Inspector

Field Inspector

CALIFORNIA ENERGY COMMISSION

April 2016

NRCC-LTI-01-E

(Page 5 of 6)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	April 2016
STATE OF CALIFORNIA INDOOR LIGHTING	
CEC-NRCC-LTI-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name (PC 04-116504)	Date Prepared: 06/25/2018
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: RALPH M. TAVARES	Documentation Author Signature:
Company: R&S TAVARES ASSOCIATES, INC.	Signature Date: 06/25/2018
Address: 11777 BERNARDO PLAZA CT. SUITE 105	CEA Certification Identification (if applicable):
City/State/Zip: SAN DIEGO, CA 92128	Phone: 858-444-3344 EXT 1801
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
 I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibili (responsible designer). The energy features and performance specifications, materials, components, and manufic Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Compliance conformation of the California Compliance of Compliance of Compliance conformation of Compliance conformation of the English Compliance shall be made enforcement agency for all applicable inspections. I understand that a completed signed builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH 	actured devices for the building design or system design identified on this Certificate of Code of Regulations. In the importance are consistent with the information provided on other applicable compliance ment agency for approval with this building permit application.
Address: 11777 BERNARDO PLAZA CT. SUITE 105	License: S3380
City/State/Zip: SAN DIEGO, CA 91218	Phone: 858 444 3344 EXT 1810

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate	
Documentation Author Name: RALPH M. TAVARES	Documentation Author Signature:
Company: R&S TAVARES ASSOCIATES, INC.	Signature Date: 06/25/2018
Address: 11777 BERNARDO PLAZA CT. SUITE 105	CEA Certification Identification (if applicable):
City/State/Zip: SAN DIEGO, CA 92128	Phone: 858 444 3344 EXT 1801
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
(responsible designer).3. The energy features and performance specifications, materials, competitions.	accept responsibility for the building design or system design identified on this Certificate of Compliance on the building design or system design identified on this Certificate on the building design or system design identified on this Certificate on the building design or system design identified on this Certificate on the building design or system design identified on the certificate of the building design or system design identified on the certificate of the building design or system design identified on the certificate of the building design or system design identified on the certificate of the building design or system design identified on the certificate of the building design or system design identified on the certificate of the building design or system design identified on the certificate of the certificate of the building design or system design identified on the certificate of the certificate of the building design or system design identified on the certificate of the certi
 (responsible designer). The energy features and performance specifications, materials, compound from the requirements of Title 24, Part 1 and Part 6. The building design features or system design features identified on the documents, worksheets, calculations, plans and specifications submitted. I will ensure that a completed signed copy of this Certificate of Complement agency for all applicable inspections. I understand that a 	onents, and manufactured devices for the building design or system design identified on this Certificate o
 (responsible designer). 3. The energy features and performance specifications, materials, compound for compliance conform to the requirements of Title 24, Part 1 and Part 6. 4. The building design features or system design features identified on the documents, worksheets, calculations, plans and specifications submitted. 5. I will ensure that a completed signed copy of this Certificate of Complement agency for all applicable inspections. I understand that a builder provides to the building owner at occurancy. 	conents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations. In this Certificate of Compliance are consistent with the information provided on other applicable compliance are to the enforcement agency for approval with this building permit application. It is in the second to the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation.
 (responsible designer). 3. The energy features and performance specifications, materials, compound for the energy features and performance specifications, materials, compound for the performance conform to the requirements of Title 24, Part 1 and Part 6. 4. The building design features or system design features identified on the documents, worksheets, calculations, plans and specifications submitted. 5. I will ensure that a completed signed copy of this Certificate of Complement agency for all applicable inspections. I understand that a builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH 	conents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations. In this Certificate of Compliance are consistent with the information provided on other applicable compliance and to the enforcement agency for approval with this building permit application. It is in the made available with the building permit permit is seen as a provided on other applicable compliance and the compliance is required to be included with the documentate and the completed signed copy of this Certificate of Compliance is required to be included with the documentate and the completed signed copy of this Certificate of Compliance is required to be included with the documentate and the complete complete complete and the complete comple
 (responsible designer). 3. The energy features and performance specifications, materials, compound for compliance conform to the requirements of Title 24, Part 1 and Part 6. 4. The building design features or system design features identified on the documents, worksheets, calculations, plans and specifications submitted. 5. I will ensure that a completed signed copy of this Certificate of Complement agency for all applicable inspections. I understand that a builder provides to the building owner at occurancy. 	onents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations. In this Certificate of Compliance are consistent with the information provided on other applicable compliance and to the enforcement agency for approval with this building permit application. It is in the second of the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentate. Responsible Designer Signature: Date Signed: 06/25/2018
 (responsible designer). The energy features and performance specifications, materials, compound from the requirements of Title 24, Part 1 and Part 64. The building design features or system design features identified on the documents, worksheets, calculations, plans and specifications submitted. I will ensure that a completed signed copy of this Certificate of Completen of Comple	conents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations. In this Certificate of Compliance are consistent with the information provided on other applicable compliance and to the enforcement agency for approval with this building permit application. It is in the made available with the building permit permit is seen as a provided on other applicable compliance and the compliance is required to be included with the documentate and the completed signed copy of this Certificate of Compliance is required to be included with the documentate and the completed signed copy of this Certificate of Compliance is required to be included with the documentate and the complete complete complete and the complete comple



DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE 105 SAN DIEGO, CA 92128 WWW.RSTAVARES.COM

PROFESSIONAL STAMP



12/19/2017

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1221 Harley Knox Boulevard Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0 AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL **IDENTIFICATION STAMP** DIV. OF THE STATE ARCHITECT

04 118239 ACS FLS SS ACDATE MAR 10 7 201/3

April 2016

NRCC-LTI-02-E

(Page 3 of 3)

HIGH PERFORMANCE SECTION

Revision Schedule

Description

120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER 17016A

rMc/SC

CHECKED BY JA/RT

2018/06/26

SHEET OF SHEETS CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY C	CALIFORNIA ENERGY COMMISSION		STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORN	DRNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Outdoor Lighting	NRCC-LTO-01-E (Page 1 of 4) CERTIFICATE OF COMPLIANCE Outdoor Lighting NRCC-LTO-01-E (Page 2 of 4)		CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls	NRCC-LTO-02 (Page 1 of
Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018	Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018		Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018	
A. General Information Project Address: Total Illuminated Hard	G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b) cape Area: 01 02		A. Mandatam Outdoor lighting Control Designation Statements	
Phase of Construction: New Construction Addition Alteration	Name or Symbol Description of exempt luminaire in accordance with the exemptions		A. Mandatory Outdoor Lighting Control Declaration Statements Check all that apply:	
Outdoor Lighting Zone (LZ) LZ-1 LZ-2 LZ-3 LZ-3 I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part	LZ-4		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Regulations in accordance with §110.9(a).	
Thave committee with the Arts which Lz applies to this site. For default lighting zone designations, see Title 24 Part	, 910-114		Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation C in accordance with §130.4(b).	
B. Lighting Compliance Documents (check box for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidentic	Manual H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)	' 	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the maccordance with §130.0(d).	manufacturer's instructions in
published by the California Energy Commission. ✓ NRCC-LTO-01-E Certificate of Compliance	01 02 Name or Symbol Description of exempt luminaire in accordance with the exemptions		Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5. All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion	on sensor.
✓ NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance ✓ NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance	realize of Symbol Description of exemptions		All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply Uplight and Glare requirements in accordance with Section 130.2(b)	ly with
□ NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance			All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of in accordance with Section 130.2(c)1.	of automatically switching OFF
C. Summary of Allowed Outdoor Lighting Power Watts			All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control accordance with Section 130.2(c)2.	ni lc
Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 O1 Alterations with NO increase of connected lighting lead may instead use the			All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with autocontrols in accordance with Section 130.2(c)3.	comatic lighting
Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01)			For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4. For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with	th Section 130.2(c)5
02 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3. 120			Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls sl	
D. Declaration of Required Installation Certificates			applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.	
Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are comsigned.)	eted and			
✓ NRCI-LTO-01-E - Must be submitted for all buildings	or .			
✓ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	or			
E. Declaration of Required Certificates of Acceptance				
Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance document and signed.)			CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS	August 20
✓ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.				DRNIA ENERGY COMMISSION NRCC-LTO-02
F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7 01 02			Outdoor Lighting Controls Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018	(Page 2 of
Name or Symbol Description of exempt luminaire in accordance with the exemptions				
			B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist	
			Outdoor Lighting Control Schedule Standards Complying With	Field In
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA	April 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 STATE OF CALIFORNIA		(✓ all that apply, or leave empty if Exempted)	specto
OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-01-E CEC-NRCC-LTO-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION	01 02 03 04 05 06 07 08	09 10 11
Outdoor Lighting	(Page 3 of 4) Outdoor Lighting	NRCC-LTO-01-E (Page 4 of 4)	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor # 70 70 70 70 70 70 70 70 70 70 70 70 70	5(
Project Name: 120'x40' (PC 04-116504) I. Outdoor Lighting Schedule and Field Inspection Energy Checklist		Date Prepared: 03/05/2018	Luminaires Being photocontrol, outdoor astronomical time- switch control, automatic scheduling Units Light Street Control and Application of photocontrol, outdoor astronomical time- switch control, automatic scheduling Units Light Street Control and Application of photocontrol, outdoor astronomical time- switch control automatic scheduling Units	Pass Pass
Luminaire Schedule Installed Watts	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1.	Decumentation Author County	controlled control, part-night outdoor lighting control)	w I
01 02 03 04 05 06	07 08 09 Company: R&S TAVARES ASSOCIATES, INC.	Signature Date: 03/05/2018	ENTRY DOOR PHOTOCELL CONTROLLED 4 + +	
determined g	Primary Function area in which these luminaires are BUG Rating BUG Rating Address: 11777 BERNARDO PLAZA CT. SUITE 105 City/State/Zip: SAN DIEGO, CA 92128	CEA Certification Identification (if applicable): Phone: 858 444 3344 EXT 1801		
tts in this in this integral of the property o	installed (Outdoor Lighting Zone) RESPONSIBLE PERSON'S DECLARATION STATEMENT			
D EXTERIOR LED LIGHT FIXTURE 30W MAX WITH	1. The information provided on this Certificate of Compliance is true and correct.	nia: sponsibility for the building design or system design identified on this Certificate of Compliance		
PHOTOCELL MOUNT AT 93" AFF	(responsible designer).	nd manufactured devices for the building design or system design identified on this Certificate of		
30 🗸 🗆 4 120	BVH: 4. The building design features or system design features identified on this Certific documents, worksheets, calculations, plans and specifications submitted to the	eate of Compliance are consistent with the information provided on other applicable compliance enforcement agency for approval with this building permit application.		
	BH: enforcement agency for all applicable inspections. I understand that a complete	be made available with the building permit(s) issued for the building, and made available to the d signed copy of this Certificate of Compliance is required to be included with the documentation the		
	UL: Responsible Designer Name: MANNY D. FRISCH	Responsible Designer Signature: Muny D. Fussal.		
	BVH: Address: 11777 BERNARDO PLAZA CT. SUITE 105	Date Signed: 03/05/2018 License: S3380		
	BH: City/State/Zip: SAN DIEGO, CA 92128	Phone: 858 444 3344 EXT 1810	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	August 20
	UH: UL:		STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CEC-NRCC-LTO-02-E (Revised 08/16) CALIFOR	ORNIA ENERGY COMMISSION
	BVH:		CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls	NRCC-LTO-02 (Page 3 of
	FH: BH:		Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018	
INSTALLED WATTS PAGE TOTAL: 120	Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into 120		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete.	
	NRCC-LTO-01-E; Page 1		Documentation Author Name: RALPH M. TAVARES Documentation Author Signature:	
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	April 2016		Company: R&S TAVARES ASSOCIATES, INC. Signature Date: 03/05/2018 CEA Certification Identification (if applicable): CEA Certification Identification (if applicable):	
			City/State/Zip: SAN DIEGO, CA 92128 Phone: 858 444 3344 EXT 1801	
			RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	
			2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Ceri (responsible designer).	·
			 The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other 	
		APPROVED DIVISION OF STATE ARCHITECT	documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, an	and made available to the
		HIGH PERFORMANCE SECTION	enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included	ed with the documentation the
		APP.# 04-116504 DATE: 7-10-18	builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH Company: R&S TAVARES ASSOCIATES, INC. Date Signed: 03/05/2018	
			Address: 11777 BERNARDO PLAZA CT. SUITE 105 License: S3380	
			City/State/Zip: SAN DIEGO, CA 92128 Phone: 858 444 3344 EXT 1810	

and independently controlled from other electrical loads by an automatic scheduling control in of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting ng control shall be installed in accordance with Section 130.2(c)4. d Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5 newly constructed building or for the addition, or for any altered outdoor lighting controls, quirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the Reference Nonresidential Appendix NA7.8. ial Compliance August 2016 CALIFORNIA ENERGY COMMISSION NRCC-LTO-02-E Date Prepared: 03/05/2018 chedule and Field Inspection Checklist Standards Complying With rol Schedule (✓ all that apply, or leave empty if Exempted) 02 08 09 03 ription of Lighting Control (i.e. r motion sensor, outdoor l, outdoor astronomical timentrol, automatic scheduling ial Compliance August 2016 CALIFORNIA ENERGY COMMISSION NRCC-LTO-02-E (Page 3 of 3) Date Prepared: 03/05/2018 tation is accurate and complete. Signature Date: 03/05/2018 CEA Certification Identification (if applicable): 858 444 3344 EXT 1801 e laws of the State of California: pliance is true and correct. rofessions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance s, materials, components, and manufactured devices for the building design or system design identified on this Certificate of 4, Part 1 and Part 6 of the California Code of Regulations. ares identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance ecifications submitted to the enforcement agency for approval with this building permit application. ertificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the DRAWN BY understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the Date Signed: 03/05/2018 License: S3380 Phone: 858 444 3344 EXT 1810

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION NRCC-LTO-02-E (Page 1 of 3) DESIGN & CONSULTING PROJECT

11777 BERNARDO PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128 WWW.RSTAVARES.COM PROFESSIONAL STAMP system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in

12/19/2017

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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0 AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

Revision Schedule

Description

SHEET TITLE

120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER 17016A

rMc/SC

CHECKED BY

2018/03/08

SHEET OF SHEETS

August 2016

ATE OF CALIFORNIA lectrical Power Distribution	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Electrical Power Distribution CEC-NRCC-ELC-01-E (Revised 01/16)	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Electrical Power Distribution CEC-NRCC-ELC-01-E (Revised 01/16) CALIFOR	RNIA ENERGY COMMISSION	STATE OF CALIFORNIA Electrical Power Distribution CEC-NRCC-ELC-01-E (Revised 01/16)	CALIFORNIA ENERGY COMMISSION
C-NRCC-ELC-01-E (Revised 01/16) ERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E	CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E	CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E	CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
lectrical Power Distribution	Date Prepared: 0.4/2.4/2.20	Electrical Power Distribution	Page of 04/24/2018	Electrical Power Distribution Project Name: 120'x40' (PC 04-116504) Date Prepared: (Page of 04/24/2018	Electrical Power Distribution Project Name: 120'x40' (PC 04-116504)	Page of 04/24/2018
120'x40' (PC 04-116504)	04/24/2018	120'x40' (PC 04-116504)	04/24/2018		1	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
eneral Information plect Address: Climate Zone:	Conditioned Floor Area :	B. Separation of Electrical Circuits for Electrical Energy Monitoring Check all boxes below if the electrical power distribution system is in compliance wi	h Section 130 5/h)	C. Voltage Drop Check all boxes below if he electrical power distribution system is in compliance with Section 130.5(c).	Enforcement Agency Check that the system	1. I certify that this Certificate of Compliance documentation is	accurate and complete. Documentation Author Signature:
oject Address: Climate Zone:	4800 Unconditioned Floor Area:	The electrical power distribution system meets the separation of electrical circu	ts for electrical energy monitoring requirement of Section		complies	Documentation Author Name: RALPH M. TAVARES	(1011)
		✓ 130.5(b). The electrical power distribution systems is designed so that measure according to TABLE 130.5-B.	nent devices can monitor the electrical energy usage of load types	The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest		Company: R&S TAVARES ASSOCIATES, INC. Address: 11777 BERNARDO PLAZA CT. SUITE 105	Signature Date: 04/24/2018 CEA/ HERS Certification Identification (if applicable):
ding Type:	Hotel/Motel	Describe the electrical power distribution system installed and the compliance use the space below to include the information. Examples of compliance method	nethod chosen in meeting the requirement of Section 130.5(b). ds are detailed in Nonresidential Compliance Manual Chapter 8.	connected load or outlet, do not exceed 5%.		City/State/Zip: SAN DIEGO, CA 92128	Phone: 858-444-3344 EXT 1801
chools Relocatable Public Schools Conditioned Spaces	☐ Unconditioned Spaces ☐ Alteration	Fill out Column 1 thru 3 with the compliance information.		☐ Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the		RESPONSIBLE PERSON'S DECLARATION STATEMENT	
se of Construction: New Construction Addition	Atteration	General Information Electrical Power Distribution Sy and Method of com		compliance document submittal.		I certify the following under penalty of perjury, under the laws of 1. The information provided on this Certificate of Compliance is	
e table below identify all applicable construction documents that specify the requireme	ents for the scope of responsibility reported	01 02	03 04	<u> </u>		· ·	Code to accept responsibility for the building design or system design identified
nis certificate. Use additional pages as needed to list all construction documents related		Electrical Service Describe the electrical power of Designation/Location/Description installed and the compliance	E KVA 1	D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles		3. The energy features and performance specifications, materia	als, components, and manufactured devices for the building design or system
Document Title/Descriptions (include description information for Document SI		IT WILL VARY DEPENDING ON CLIENT'S SITE NA	0	Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power	Field Inspector Check that the system	Regulations.	o the requirements of Title 24, Part 1 and Part 6 of the California Code of
Table or Schedule if it contains Page compliance information)	document (e.g. 130.5(a) for service electrical metering)	PROJECT - RELOCATABLE PUBLIC SCHOOL		distribution system.	complies		fied on this Certificate of Compliance are consistent with the information neets, calculations, plans and specifications submitted to the enforcement
				The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an		agency for approval with this building permit application.	of Compliance shall be made available with the building permit(s) issued for the
				override control that allows the controlled receptacle to remain ON for no more than 2 hours when an		building, and made available to the enforcement agency for	all applicable inspections. I understand that a completed signed copy of this
dd Row Remove Last				override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply		Certificate of Compliance is required to be included with the Responsible Designer Name: MANNY D. FRISCH	documentation the builder provides to the building owner at occupancy. Responsible Designer Signature: Date Signed:
ervice Electrical Metering k one of the three boxes below if the electrical power distribution system is in compliance with	n Section 130.5(a).			with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d))1.	Company: R&S TAVARES ASSOCIATES, INC.	Date Signed: 04/24/2018
or newly installed electrical service in newly constructed buildings, Service Electrical Metering is				There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each		Address: 11777 BERNARDO PLAZA CT. SUITE 105	License: S3380
olumn 1 through 6 of table below.				workstation. The receptacles meet the requirement of Section 130.5(d)2.		City/State/Zip: SAN DIEGO, CA 91218	Phone: 858 444 3344 EXT 1810
or new or replacement electrical service equipment in existing buildings, Service Electrical Mete \$1.0(b)2Pi. Fill out Column 1 through 6 of table below.	ering is required according to Section			There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle.			
XCEPTION to Electrical Service Metering: Service or feeder for which the utility company provide W demand and kWh for a utility-defined period. <i>Fill out Column 1, 2 and 6 of table below with th</i>	es a metering system that indicates instantaneou the compliance information.	s		Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.			
a separate line for each electrical service that is connected to the building.				Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	d 🗆 🗆		
Electrical Service Schedule Electrical Metering Capabilities (check all that a				For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt			
01 02 03 04 05	06 07 08	 		receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to			
Instantaneous Tracking kW	Vh Check that the	Field Inspector Notes:		have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of			
ectrical Service Designation/ kVA (at the time) Historical for a Location/Description kWA (at the time) peak (kW) user-definal	kwn per Utility metering metering			Section 130.5(d)4. Receptacles that are only for the following purposes are excepted from Section 130.5(d):			
e period				- Receptacles specifically for refrigerators and water dispensers in kitchen areas.			
VARY DEPENDING ON CLIENT'S				- Receptacles located a minimum of six ft above the floor that are specifically for clocks. - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in the computer of the control of the computers of the computers of the computer of the computers of the computer of the co	in _		
PROJECT - RELOCATABLE PUBLIC 0				copy rooms Receptacles on circuits rated more than 20 amperes.			
Row Remove Last				- Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous			
				use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.			·
						· · · · · · · · · · · · · · · · · · ·	
ing Energy Efficiency Standards - 2016 Nonresidential Compliance	January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Con	pliance January 2016
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APPROVED DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.#04-116504 DATE: 7-10-18



ONAL STAMP



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12/19/2017

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PC STATE AGENCY APPROVAL MBER: PC-128

IDENTIFICATION STAMP ION OF THE STATE ARCHITECT 116504 INCR: 0

FLS EA SSR KER 07/19/2018

24' x 40' PANDABLE TO 120' x 40'

E-CHECK (PC) DOCUMENT Code: | 2016] CBC separate project application for construction is required.

PECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP /. OF THE STATE ARCHITECT

04 118239 CS___FLS___SS___

Revision Schedule

Description

0'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER

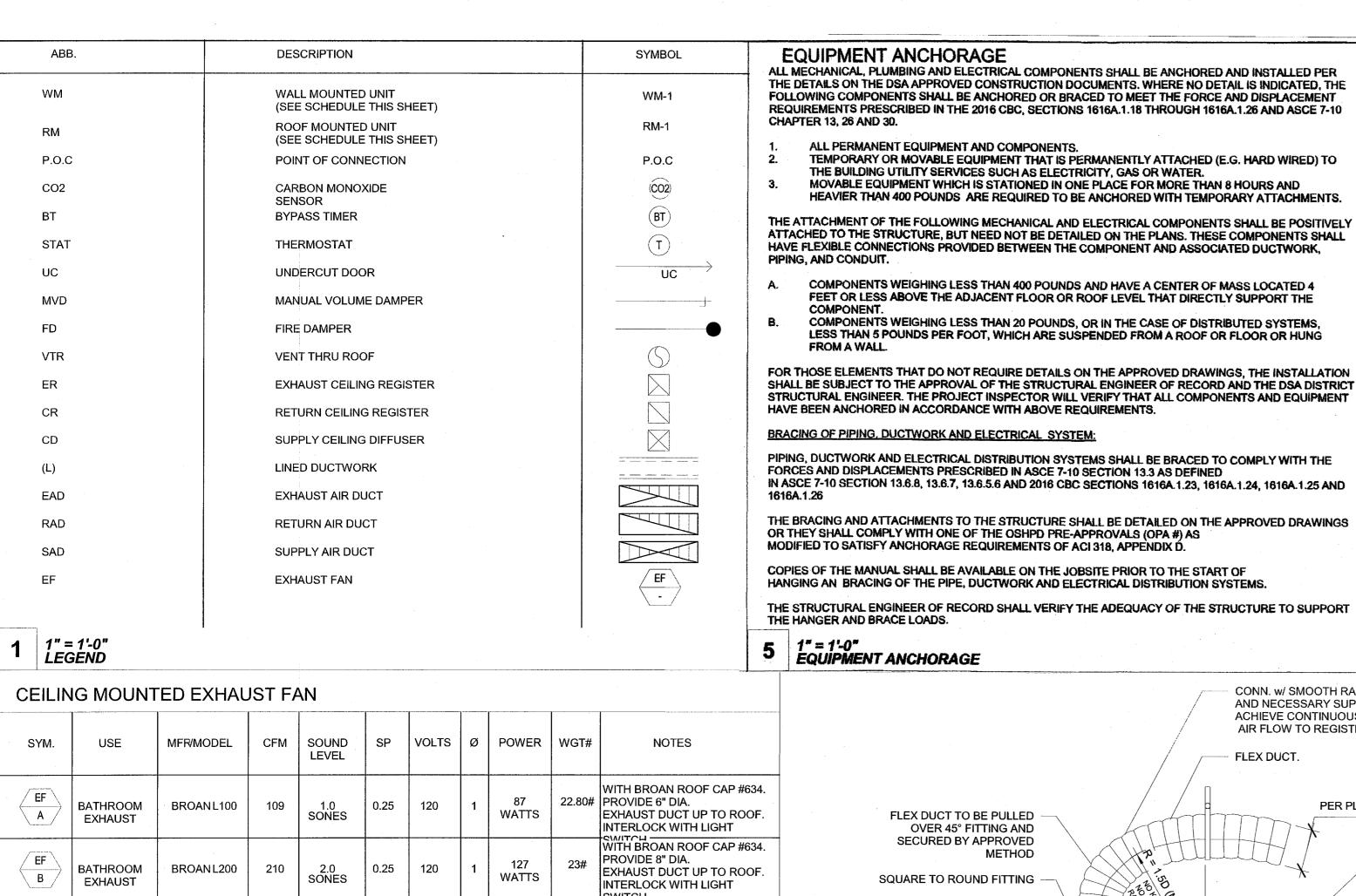
17016A

CHECKED BY

DATE

2018/04/25

E2.3



CONN. w/ SMOOTH RADIUS AND NECESSARY SUPPORT TO ACHIEVE CONTINUOUS SMOOTH AIR FLOW TO REGISTER / DIFFUSER FLEX DUCT. PER PLAN FLEX DUCT TO BE PULLED OVER 45° FITTING AND SECURED BY APPROVED METHOD FELX DUCT TO BE PULLED OVER 45° FITTING AND SECURED SQUARE TO ROUND FITTING BY APPROVED METHOD SQUARE TO ROUND FITTING SEE 17 / A3.3 FOR SEE 17 / A3.3 FOR STRAP SUPPORT STRAP REPORT CLG (TYP) 24" MIN **CEILING TILE** HART AND COOLEY SUPPLY REG. SEE SCHED THIS SHEET T-GRID

TYP SEE

ROOF CAP PER SCHEDULE (THIS SHEET)

ATTACH PER MFR.

MASTIC SET FLANGE

ALL 4-SIDES (CONT.)

PER 17 / A3.3

FAN MOUNT w/

(2)#8 STSMS FSTN'R

TO 2'-0" CROSSBAR

T-GRID CLG AND PANEL

SHTG AND

ROOFING

STRAP(2-SIDES) AND FSTN'G

1" = 1'-0" CEILING MOUNTED EXHAUST FAN SCHEDULE PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

BROANL300

BROAN 676

100

BATHROOM

EXHAUST

BATHROOM

EXHAUST

OR APPROVED EQUAL.

OIVATEDITAGE	STATED TAGE GRIEFE GOTTEDGEE (GGTTET)					
	NECK SIZE	CFM (RANGE)	NOTES			
	6"Ø	0-150	SEE DETAIL FOR MAKE AND MODEL			
16x16-4W	8"Ø	150-230	SEE DETAIL FOR MAKE AND MODEL			
	10"Ø	230-350	SEE DETAIL FOR MAKE AND MODEL			
-BAR SUPPLY	12"Ø	350-460	SEE DETAIL FOR MAKE AND MODEL			
	14"Ø	460-640	SEE DETAIL FOR MAKE AND MODEL			

0.25

0.25

120

120

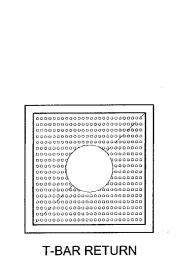
212

156

WATTS

T-BAR SUF Fixed Curve Blade, 4-way throw

1" = 1'-0" PFG SCHED (SUPPLY)



Perforated Face

Shoemaker 105P with 24 ga. 45 deg.

1" = 1'-0" PFG SCHED (RETURN)

WITH BROAN ROOF CAP #634.

EXHAUST DUCT UP TO ROOF.

INTERLOCK WITH LIGHT SWITCH

WITH BROAN ROOF CAP #636.

EXHAUST DUCT UP TO ROOF.

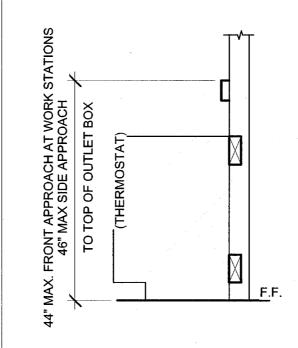
INTERLOCK WITH LIGHT SWITCH.

23.10# PROVIDE 8" DIA.

PROVIDE 4" DIA.

ANGLE & FASTENING PER STRUCTURAL FLASHING WATERPROOFING PER MFR. CURB PER MFR. WOOD NAILER **ROOFING MATERIAL RIGID INSULATION** FASTENING PER STRUCTURAL PLANS SEE DETAIL 19/S3.1 FOR FSTN'G

HVAC UNIT



10.6 EER and 11 EER

SINGLE DACKAGE VEDTICAL HEAT DUMP SCHEDULE

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE					
	STANDARD	OPTION#I	OPTION #2		
TAG	WM-1.1	WM-1.2	WM-1.3		
NOMINAL TONNAGE	4.0 TONS	*5 TONS	3.5 TONS		
MANUFACTURER	**BARD	**BARD /	**BARD		
MODEL#	C48H1\	C60H1	C42H1		
CFM	1550	1700 /	1400		
STATIC PRESSURE	3.0	3.0	3.0		
DRIVE	DIRECT	DIFECT	DIRECT		
MCA	58	67	57		
MOCP	60	/80	60		
VOLTAGE	208/230-1	208/230-1	208/230-1		
WIRE SIZE (PWR/GRND)	#6/#10	¥4 /#8	#6/#10		
DESIGN RETURN AIR (DB/WB)	80/67	80/67	80/67		
SENSIBLE COOLING @ 95° F (PART/FULL)	25.900/36.90	30.800/40.300	21.700/29.700		
TOTAL COOLING @ 95° F (PART/FULL)	34.000/45/500	40.800/55.500	26.800/40.000		
HEATING CAP. BTUH @ 47° F (PART/FULL)	29.200/4/1.500	36.000)51.000	46.600/38.500		
HEATING CAP. BTUH @ 17° F	26.009	32.000	25.000		
OPERATING WEIGHT	550#	580#	550#		
EER	11,00	10.60	11.00		
COP @ 47° F	3/.00	3.00	3.00		

10.6 AND 11.0 EER (GAS ALTERNATE)

SINGLE PACKAGE VERTICAL AIR CONDITIONER WITH GAS FURNACE						
	STANDARD	OPTION #I	OPTION #2			
TAG	WM-2.1	WM-2.2	WM-2.3			
NOMINAL TONNAGE	4.0 TONS	*5 TONS	3.5 TONS			
MANUFACTURER	BARD	**BARD	BARD			
MODEL#	C48H1	C60H1	C42H1			
CFM	1600	1750	1300			
STATIC PRESSURE	0.2	0.2	0.2			
DRIVE	DIRECT	DIRECT	DIRECT			
MCA	38	40	32			
MOCP	50	60	50			
VOLTAGE	208/230-1	208/230-1	208/230-1			
WIRE SIZE (PWR/GRND)	#6/#10	#6/#10	#6/#10			
DESIGN RETURN AIR (DB/WB)	80/67	80/67	80/67			
SENSIBLE COOLING @ 95° F (PART/FULL)	35.900/36.000	30.800/40.300	21.700/29.700			
TOTAL COOLING @ 95° F (PART/FULL)	34.000/45.500	40.800/55.500	26.800/40.000			
HEATING INPUT	75.000	75.000	75.000			
HEATING OUTPUT	61.500	61.500	61.500			
OPERATING WEIGHT	710#	725#	700#			
EER	11.00	10.60	11.00			
THERMAL EFFICIENCY (TE)	82	82	82			
14 SEER						

SINGLE PACKAGE ROOF TOP HEAT PUMP SCHEDULE

STANDARD

RM-1.1

4.0 TONS

50KCQ05

208/230-1

#4/#8

80/67

45.500

28.600

560#

14.00

8.0

2.4

SEER, HSPF AND COP VALUES ARE NO LESS THAN SHOWN.

SET BACK THERMOSTAT SHALL BE PROVIDED

SHOWN MAY NOT BE USED.

0.2

64

BELT

**CARRIER

OPTION #I

RM-1.2

*5 TONS

50KCQ06

208/230-1

BELT

80/67

40.700

58.000

58.000

28.600

615#

14.3

3.5

2.4

ACCORDINGLY, AND PLACED NO LESS THAN 35" AFF AND NO MORE THAN 72" AFF.

THE CO2 SENSOR SHALL NOT BE OBSTRUCTED BY FURNITURE OR EQUIPMENT AND NEED TO BE LOCATED

MODEL NUMBERS FOR HEAT PUMP UNITS WITH OPTIONAL 5.0 AUXILIARY HEAT STRIPS, WHEN THE HEAT

HVAC SYSTEM DOES NOT CONTAIN AN ECONOMIZER AND DEMAND CONTROL VENTILATION DEVICES

STRIP IS NOT USED, THE MCA AND MOCP MUST BE VERIFIED AND HEAT STRIPS LARGER THAN THE SIZES

SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT,

AIR HANDLERS WITH OTHER VOLTAGES SHOULD BE ACCEPTABLE, AS WELL AS OTHERS THAN THE MAKE AND MODELS LISTED ON THESE TABLES, WHEN THE NOMINAL TONNAGE DOES NOT EXCEEDS 5 TON AND THE

CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER CALIFORNIA ENERGY CODE (CEC),

THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER THE PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING

OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS

WHICHEVER IS GREATER. PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. PC MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMODATE

**CARRIER

	HVAC SCHEDULE					
		# OF H	VAC			
BUILDING SIZE		3 1/2 TON HVAC	4 TON HVAC	5 TON HVAC		
X	24' x 40'	1				
	36' x 40'		1			
X	48' x 40'	2	-			
	60' x 40'		2			
	72' x 40'	3		2		
	84' x 40'	·	3			
	96' x 40'	4		3		
	108' x 40'		4			
	120' x 40'	5	THE STATE OF THE S	9444444 (4.444) , , 31) — — — — — — — — — — — — — — — — — —		

HVAC SCHEDULE TYPICAL FOR WALL MTD AND ROOF MTD UNITS 2016 CALGREEN AND ENERGY CODE - COMPLIANCE SECTIONS

FILTER SPECIFICATION:

5.504.3 - ALL EXPOSED DUCT OPENINGS AND MECHANICAL EQUIPMENT SHALL BE COVERED AND PROTECTED DURING CONSTRUCTION AND

5.504.5.3 - HVAC FILTER (MERV RATING OF 8 MINIMUN OR HIGHER). ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.

14 SEER (GAS ALTERNATE)

SINGLE PACKAGE ROOF TOP AIR CONDITIONER WITH GAS FURNACE

STANDARD

RM-2.1

4.0 TONS

208/230-1

#6/#10

80/67

35.260

49.000

90.000

73.000

14.00

80.4%

590#

**CARRIER

50KCQ05

OPTION #I

**CARRIER

50KCQ06

RM-2.2

*5 TONS

41.8

208/230-1

#6/#10

80/67

40.700

58.000

90.000

73.000

618#

14.3

80.4%

OPTION #2

**CARRIER

50KCQ04

RM-2.3

3 TONS

1400

0.15

BELT

29.6

208/230-1

#6/#10

30.500

45.600

90.000

73.000

14.00

572#

80.4%

80/67

OUTDOOR AIR QUALITY:

2.00

OPTION #2

**CARRIER

50KCQ04

1400

0.15

59

208/230-

#6/#10

80/67 30.500

35.600

35.500

18.400

572#

14.00

2.3

NOMINAL TONNAGE

MANUFACTURER

STATIC PRESSU

WIRE SIZE (PWR/GRND)

DESIGN RETURN AIR (DB/WB)

SENSIBLE COOLING @ 95° F

TOTAL COOLING @ 95° F

HEATING INPUT

HEATING OUTPUT

OPERATING WEIGHT

MODEL#

DRIVE

VOLTAGE

SEER

AFUE

RM-1.3

3 TONS

HVAC EQUIPMENT DOES NOT CONTAIN CFCS OR HALONS.

1221 Harley Knox Boulevard

Perris, CA 92571

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DESIGN + CONSULTING + PROJECT

PROFESSIONAL STAMP

11777 BERNARDO PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128

WWW.RSTAVARES.COM

ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128

IDENTIFICATION STAMP **DIVISION OF THE STATE ARCHITECT** 04 - 116504 AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT Code: | 2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239

Revision Schedule

Description

MISCELLANEOUS **NOTES & DETAILS**

PROJECT NUMBER

DRAWN BY rMc/SC

17016A

CHECKED BY JA/RT

2017/06/05

SHEET NO.

JOINTS MUST BE DESIGNED WITH A FLEXIBLE CONNECTION THAT CAN

ARE DESIGNED TO PROVIDE EACH AREA. *FOR 24x40 BUILDING A 5 TONS UNIT IS ONLY TO BE USED ON COMPUTER LAB APPLICATION

**OR EQUAL

SECTION 915 CARBON MONOXIDE DETECTION

915.2.3 Group E occupancies. Carbon monoxide detection shall be installed in classrooms in Group E occupancies. Carbon monoxide alarm signals shall be automatically transmitted to an on-site location that is staffed byschool

915.3 Detection equipment. Carbon monoxide detection required by Sections 915.1 through 915.2.3 shall be provided by carbon monoxide alarms complying with Section 915.4 or carbon monoxide detection systems complying with Section

CFC 915.1 - Classrooms which contain a fuel-burning appliance or a fuel-burning fireplace or are supplied by a forced-air furnace shall be provided with a carbon monoxide detexction system. Provide a carbon monoxide

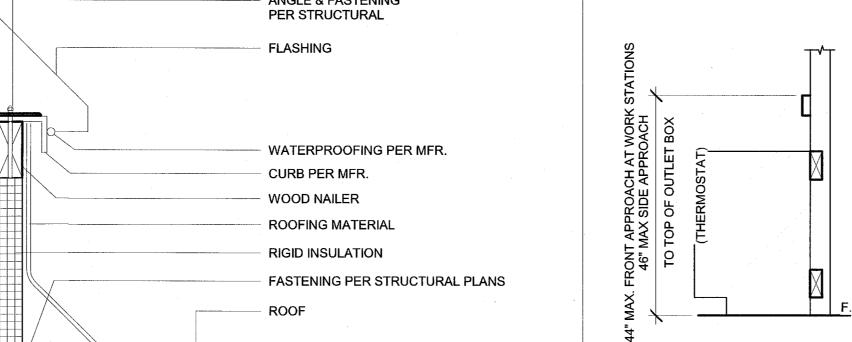
detection system

UTLILITIES THAT SPAN BETWEEN UNITS OR ACROSS SEISMIC SEPARATION



PERFORATED FACE GRILLE SCHEDUI F (RETURN)

6"Ø	0-230	SEE MECH CLG PLAN FOR SIZE
10"Ø	230-460	SEE MECH CLG PLAN FOR SIZE
14"Ø	460-710	SEE MECH CLG PLAN FOR SIZE
	10"Ø	10"Ø 230-460



SEE ISOMETRIC DETAIL 17/A3.3 FOR STRAPS

* 30"x48" MIN CLR FLOOR SPACE

COP @ 17° F

NOMINAL TONNAGE

MANUFACTURER

STATIC PRESSURE

WIRE SIZE (PWR/GRND)

OPERATING WEIGHT

COP @ 47° F

COP @ 17° F

HVAC NOTES

DESIGN RETURN AIR (DB/WB)

HEATING CAP. BTUH @ 47° F

HEATING CAP. BTUH @ 17° F

SENSIBLE COOLING @ 95° F

TOTAL COOLING @ 95° F

MODEL#

DRIVE

MCA

VOLTAGE

AT EACH LOCATION FOR

PERPENDICULAR APPROACH

CROSS BAR SUPPORT (ADDITIONAL) w/ #8 STSMS FSTN'D

FLEXIBLE DUCTING PER PLAN

10 | 1" = 1'-0" | ELEV. @ WORKSTATION

ACCOMMODATE DIFFERENTIAL MOVEMENTS

PC DESIGN REVIEW INFORMATION Title 24, Part 6, Energy Code DSA Application #: 04-116504 Calculation Date/Time of Energy Report: 2018-06-23 17:00:30 Model Name and Option: 24'x40' PC - CLASS LEASING LLC Total Floor Area: 960 ft ² HVAC System Type: Simple / Wall Mounted A/C

TDV - Standard Design | TDV - Proposed Design | (Front Orientation) City) < * 2.20% 356.36 374.87 348.45 15 (Palm Springs-Intl) * 5.10% 329.35 356.82 336.85 336.85 5.71% * 2.50% 5.60% 336.72

Reference: Energy Code, Appendix NA4, Table NA4-3

< Least Compliance Margin Orientation

* In the event that there are identical percentages, select one. **This table is not currently generated by the energy software.

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

PC DESIGN REVIEW INFORMATION Title 24, Part 6, Energy Code DSA Application #: 04-116504 Calculation Date/Time of Energy Report: 2018-06-23 19:58:52 Model Name and Option: 120'x40' PC - CLASS LEASING LLC

Total Floor Area: 4,800 ft 2 HVAC System Type: Simple / Wall Mounted A/C limate Zone (Reference (Front Orientation) 14 (Palmdale) < 15 (Palm Springs-Intl) 384.85 16 (Blue Canyon) 334.47

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION

< * 0.40% 4.94% * 0.40% * 2.50% 4.25% * 0.60% eference: Energy Code, Appendix NA4, Table NA4-3

§ 140.1

* In the event that there are identical percentages, select one.

**This table is not currently generated by the energy software.

< Least Compliance Margin Orientation

Proje	ct Name: 120	120X40 (PC 04-116504) - Wall AC				NRCC-PRF-01-E	Page 1 of 19	
Proje	ct Address: Clim	Climate Zone 14 Palmdale Calculation Date/Time: 19:52, Sat, Jun 23, 2018				un 23, 2018		
Com	oliance Scope: Nev	vComplete				Input File Name: 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x		
A. PI	ROJECT GENERAL INFO	RMATION						
1.	Project Location (city)		Palmdale		8.	Standards Version		Compliance2016
2.	CA Zip Code				9.	Compliance Software (version)		EnergyPro 7.2
3.	Climate Zone		14		10.	Weather File		PALMDALE_723820_CZ2010.epw
4.	Total Conditioned Floor	Area in Scope	4,800 ft ²		11.	Building Orientation (deg)		(E) 75 deg
5.	Total Unconditioned Flo	or Area	0 ft ²		12.	Permitted Scope of Work		NewComplete
6.	Total # of Stories (Habit	able Above Grade)	1		13	Building Type(s)		Nonresidential
7.	Total # of dwelling units		0		14	Gas Type		NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft 2-yr)

	BUILDING COMPLIES							
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard				
Space Heating	17.88	22.68	-4.80	-26.8%				
Space Cooling	103.92	117.41	-13.49	-13.0%				
Indoor Fans	88.46	85.47	2.99	3.4%				
Heat Rejection								
Pumps & Misc.								
Domestic Hot Water	11.16	11.16		0.0%				
Indoor Lighting	48.76	32.10	16.66	34.2%				
COMPLIANCE TOTAL	270.18	268.82	1.36	0.5%				
Receptacle	64.30	64.30	0.0	0.0%				
Process								
Other Ltg			-					
Process Motors		·						
TOTAL	334.48	333.12	1.4	0.4%				

Project Na	me:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 2 of 19	
Project Ad	dress:	Climate Zone 14 Palmdale	Calculation Date/T	Time: 19:52, Sat, Jun 23, 2018	
Complianc	e Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x	
C. PRIORI	ITY PLAN CH	ECK/ INSPECTION ITEMS (in order of hig	est to lowest TDV energy savings)	· · · · · · · · · · · · · · · · · · ·	
1st Indoor Lighting: Check lighting			Compliance Margin By Energy Component (from Table B column 4)		
2nd Indoor Fans: Check envelope and mechanical		Check envelope and mechanical	Indoor Lighting		
				[·	

1st	Indoor Lighting: Check lighting	Compliance Margin By Energy Component (from Table B column 4)
2nd	Indoor Fans: Check envelope and mechanical	Indoor Lighting
3rd	Heat Rejection: Check envelope and mechanical	Indoor Fans
4th	Pumps & Misc.: Check mechanical	Heat Rejection
5th	Domestic Hot Water: Check mechanical	Pumps & Misc. Domestic Hot Water
6th	Space Heating: Check envelope and mechanical	Space Heating
7th	Space Cooling: Check envelope and mechanical	Space Cooling Penalty Energy Credit

This project uses the Simplified Geometry Performa requirements are met. PRESCRIPTIVE COMPLIANCE required.				
E. HERS VERIFICATION				
This Section Does Not Apply	 	 	·	

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

F. ADDITIONAL REMARKS Standard Building (Compliance)

•	Identify wh	ich building comp	onents use the performance or prescriptive path for compliance. "NA"= not in project	
	For compone	nts that utilize the	performance path, indicate the sheet number that includes mandatory notes on plans.	
Building Component	Compliance Path		Compliance Forms (required for submittal)	Location of Mandatory Notes of Plans
	⊠	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
Envelope		Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	M2.3
		NA		
	×	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
Mechanical		Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	M2.3
		NA		
		Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
Domestic Hot Water	\boxtimes	Prescriptive	NRCC-PLB-01-E	
		NA		
	⊠	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
Lighting (Indoor Conditioned)		Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	M2.3
		NA		
		Performance	S2 (section of the NRCC-PRF-01-E)	
Covered Process: Commercial Kitchens		Prescriptive	NRCC-PRC-01/ 03-E	
Commercial Attendeds	×	NA		

S3 (section of the NRCC-PRF-01-E)

S4 (section of the NRCC-PRF-01-E)

NRCC-PRC-01/09-E

Prescriptive NRCC-PRC-01/ 04-E

Performance

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

NewComplete

Project Name:

Project Address:

Compliance Scope:

NRCC-PRF-01-E

Page 3 of 19

120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

Calculation Date/Time: 19:52, Sat, Jun 23, 2018

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Generated at: 2018-06-23 19:53:38

Report Generated at: 2018-06-23 19:53:38

Report Version: NRCC-PRF-01-E-06152018-5302

NRCC-PRF-01-E Page 6 of 19

Report Generated at: 2018-06-23 19:53:38

DIV. OF THE STATE ARCHITECT 04 118239 ACS___FLS___SS__/\ DATE___MAR_0_7_20/9

DESIGN ♦ CONSULTING ♦ PROJECT

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12/19/2017

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ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

24' x 40'

EXPANDABLE TO

120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for

construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP

AC RM FLS EA SSR KER

DATE 07/19/2018

PROJECT TITLE

FILE NUMBER: PC-128

IN PART, FOR ANY PURPOSE FOR WHICH

TAVARES ASSOCIATES, INC. ©

SOLELY FOR THIS CONTRACT. THESE

Revision Schedule

Description

SHEET TITLE 120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER 17016A

DRAWN BY CHECKED BY

07/05/2018

SHEET OF SHEETS

CA Building I	Energy Effi	ciency Standards- 2016 Nonres	sidential Compliance Report Version: N	IRCC-PRF-01	1-E-06152018-5	Report G	enerated at: 2018-06-23 19:53:38		
Project Nan	ne:	120X40 (PC 04-116504) - \	Wall AC	NRCC-F	PRF-01-E	Page 4 of 19			
Project Add	ress:	Climate Zone 14 Palmdale		Calcula	tion Date/Time:	19:52, Sat, Jun 23, 2018	52, Sat, Jun 23, 2018		
Compliance	e Scope:	NewComplete		Input F	ile Name:	120X40 PC - CZ14(Wall AC)	R75RSPV.cibd16x		
G. COMPL	IANCE PA	TH & CERTIFICATE OF COM	PLIANCE SUMMARY						
The follow	ing buildin	g components are only eligible relevant to th	for prescriptive compliance. Indicate which are e project.	The follo	wing building co	mponents may have mandato which are relevant to the p	ry requirements per Part 6. Indico project.		
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms		
		Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E		X X	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E		
	\boxtimes	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E			Electrical: §130.5	NRCC-ELC-01-E		
	\boxtimes	Lighting (Sign) §140.8	NRCC-LTS-01-E		×	Solar Ready: §110.10	NRCC-SRA-01 / 02-E		
	×	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E		X X X	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E		

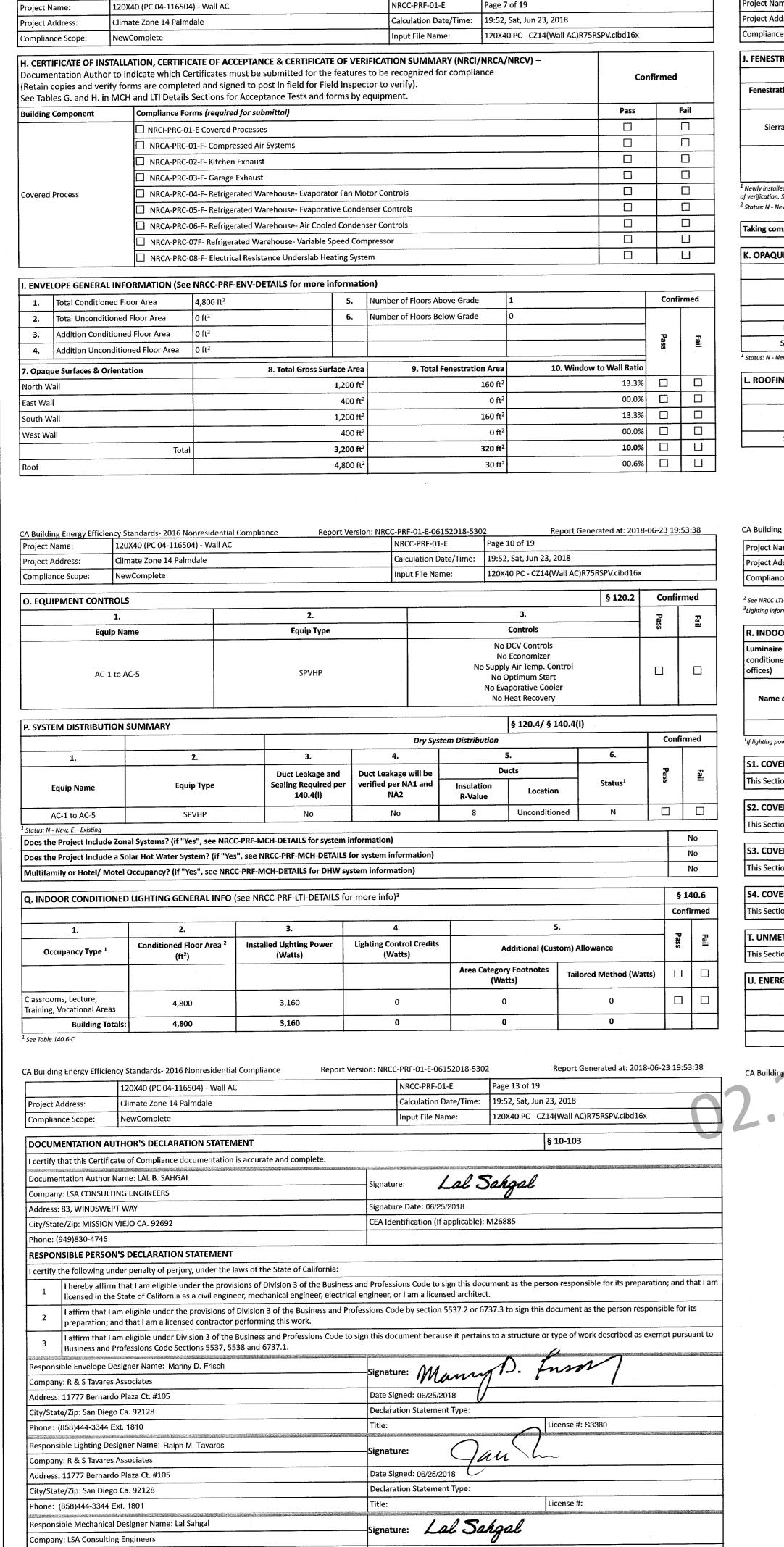
Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 5 of 19					
Project Address:	Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018		-			
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RS	SPV.cibd16x				
Documentation Autho Retain copies and ver	STALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF ir to indicate which Certificates must be submitted for the feat ify forms are completed and signed to post in field for Field In MCH and LTI Details Sections for Acceptance Tests and forms		A/NRCV) — Confirmed					
Building Component	Compliance Forms (required for submittal)			Pass	Fail			
	☑ NRCI-ENV-01-E - For all buildings							
invelope	☑ NRCA-ENV-02-F- NFRC label verification for fenestration	NRCA-ENV-02-F- NFRC label verification for fenestration						
	☑ NRCI-MCH-01-E - For all buildings with Mechanical Syster	ns						
	☑ NRCA-MCH-02-A- Outdoor Air		-					
	☐ NRCA-MCH-03-A – Constant Volume Single Zone HVAC							
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage							
	☐ NRCA-MCH-05-A- Air Economizer Controls							
	☐ NRCA-MCH-06-A- Demand Control Ventilation							
	☐ NRCA-MCH-07-A — Supply Fan Variable Flow Controls							
	☐ NRCA-MCH-08-A- Valve Leakage Test							
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls							
Mechanical	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Contro	ls						
	☐ NRCA-MCH-11-A — Auto Demand Shed Controls							
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units							
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal U	Units						
	☐ NRCA-MCH-14-A- Distributed Energy Storage							
	☐ NRCA-MCH-15-A — Thermal Energy Storage							
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls							
	☐ NRCA-MCH-17-A — Condensate Water Temp Reset Contro	ols						
	☐ NRCA-MCH-18-A- Energy Management Controls Systems							
	☐ NRCV-MCH-04-H- Duct Leakage Test							

roject Hame.	120/140 (1 0 0 1 12000 1) 11411/10			0				
Project Address:	Climate Zone 14 Palmdale		Calculation Date/Time:	19:52, Sat, Jun 23, 2018				
Compliance Scope:	NewComplete		Input File Name:	120X40 PC - CZ14(Wall AC)R75RS	SPV.cibd16x			
Documentation Auth (Retain copies and ve	or to indicate which Certificates in rify forms are completed and sig	CCEPTANCE & CERTIFICATE OF VERIF must be submitted for the features t med to post in field for Field Inspector or Acceptance Tests and forms by eq	o be recognized for compliant to verify).		Confirmed Pass Fail			
Building Component	Compliance Forms (require	mpliance Forms (required for submittal)						
	☐ NRCI-PLB-01-E - For all	buildings with Plumbing Systems		,				
	☐ NRCI-PLB-02-E - require	ed on central systems in high-rise resider	ntial, hotel/motel application.					
	☐ NRCI-PLB-03-E - Single	dwelling unit systems in high-rise resider	ntial, hotel/motel application.					
Dlumbing	☐ NRCI-PLB-21-E - HERS V	verified central systems in high-rise resid	ential, hotel/motel application					
Plumbing	☐ NRCI-PLB-22-E - HERS v	verified single dwelling unit systems in hi	gh-rise residential, hotel/mote	l application.				
	☐ NRCV-PLB-21-H- HERS	verified central systems in high-rise resid	lential, hotel/motel application					
	☐ NRCV-PLB-22-H - HERS	verified single dwelling unit systems in h	nigh-rise residential, hotel/mot	el application.				
	☐ NRCI-STH-01-E - Any so	plar water heating						
	☑ NRCI-LTI-01-E - For all b	uildings						
	☐ NRCI-LTI-02-E - Lighting	g control system, or for an Energy Manag	gement Control System (EMCS)					
	☐ NRCI-LTI-03-E - Line-vo energize only line-voltage t	ltage track lighting integral current limite track lighting	er, or for a supplementary over	current protection panel used to				
	☐ NRCI-LTI-04-E - Two int	erlocked systems serving an auditorium,	a convention center, a confere					
Indoor Lighting	☐ NRCI-LTI-05-E - Lighting	g Control Credit Power Adjustment Facto	r (PAF)					
	☐ NRCI-LTI-06-E - Additio	nal wattage installed in a video conferen	cing studio					
	☑ NRCA-LTI-02-A - Occup	ancy sensors and automatic time switch	controls.					
	NRCA-LTI-03-A - Autom	natic daylighting controls						
	☐ NRCA-LTI-04-A - Demai	nd responsive lighting controls						
	☐ NRCI-LTO-01-E - Outdo	or Lighting						
Outdoor Lighting	☐ NRCI-LTO-02-E- EMCS Lighting Control System							
	☐ NRCA-LTO-02-A - Outdoor Lighting Control							
Sign Lighting	☐ NRCI-LTS-01-E - Sign Lig	NRCI-LTS-01-E – Sign Lighting						
Electrical	☐ NRCI-ELC-01-E - Electric	RCI-ELC-01-E - Electrical Power Distribution						
Photovoltaic	☐ NRCI-SPV-01-E Photovo	Itaic Systems	<u> </u>					

Process Boilers

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

120X40 (PC 04-116504) - Wall AC



Project Name:	120X40 (I	PC 04-116504) - W	Vall AC		N	RCC-PRF-01-E	Page 8	01 19					
roject Address:	Climate Z	one 14 Palmdale			Ca	lculation Date/Tin	ne: 19:52,	Sat, Jun 23, 20:	18				
Compliance Scope:	NewCom	plete			In	put File Name:	120X4	0 PC - CZ14(Wa	II AC)R75R:	SPV.cibd16	ĸ		
. FENESTRATION ASS	SEMBLY SU	MMARY								§ 110.6	-	Confi	irme
1.		T	2.	3.		4.	5.	6.	7.	8.	9.		Π
Fenestration Assemb Tag or I.D.	ly Name /	Fenestration Ty	pe / Product Type ne Type	Certification Met	hod ¹ As			ft ² Overall U-factor	Overall SHGC	Overall VT	Status ²	Pass	1
Vertic		Fixed\	enestration Window N/A	NFRC Rated		Manufactured	320	0.35	0.24	0.50	N		
			ylight Window V/A	NFRC Rated		Manufactured	30	0.37	0.35	0.50	N		
verification. Site-built fenesti Status: N - New, A – Altered, L	ration values ar E – Existing	e calculated per Nonres	sidential Appendix NA6 a	nd are used in the analysi	is.		COG) values are f	or the glass-only, de	etermined by t	the manufactu	rer, and d	No	fore
verification. Site-built fenesti Status: N - New, A – Altered, I aking compliance crec	ration values ar E – Existing dit for fenes	e calculated per Nonres	sidential Appendix NA6 a	nd are used in the analysi	is.		COG) values are f		§ 120.7/		rer, and d		
verification. Site-built fenesti Status: N - New, A – Altered, I aking compliance crec	ration values ar E – Existing dit for fenes	e calculated per Nonres	evices? (if "Yes", see	nd are used in the analysi	is.		5.		§ 120.7/		8.	No Confi	irm
verification. Site-built fenesti Status: N - New, A - Altered, I Saking compliance cred	ration values ar E – Existing dit for fenest	e calculated per Nonres	evices? (if "Yes", see	nd are used in the analysi	TAILS for more	nformation)			§ 120.7/	§ 140.3		No	irm
verification. Site-built fenesticatus: N - New, A - Altered, Italians compliance cred C. OPAQUE SURFACE Surfa	e ASSEMBLY	tration shading de	evices? (if "Yes", see	nd are used in the analysi NRCC-PRF-ENV-DE	TAILS for more	nformation) 4. Framing	5. Cavity	6. Continuous	§ 120.7/ 7 U-Factor / C-F	§ 140.3 7. / F-Factor	8.	No Confi	
verification. Site-built fenesti Status: N - New, A - Altered, I Taking compliance cred C. OPAQUE SURFACE	dit for fenesi ASSEMBLY 1. ce Name	tration shading de	evices? (if "Yes", see	e NRCC-PRF-ENV-DE	TAILS for more 3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	§ 120.7/ 7 U-Factor / C-F U-Facto	§ 140.3 7. / F-Factor factor	∞ Status¹	Confi	irmo
R-19 Wall	ce Name Metal Stud Floor with R	tration shading de	evices? (if "Yes", see Surfac Exteri	e NRCC-PRF-ENV-DE	TAILS for more 3. Area (ft²) 3200	4. Framing Type Metal	5. Cavity R-Value	6. Continuous R-Value	§ 120.7/ U-Factor / C-F U-Factor U-Factor	§ 140.3 7. / F-Factor factor or: 0.104	8. Status ¹ Z	No Confi	irm
verification. Site-built fenesti Status: N - New, A - Altered, It Taking compliance cred C. OPAQUE SURFACE Surfa R-19 Wall Raised Slab Standing Sea	dit for fenes: ASSEMBLY 1. ce Name Metal Stud: Floor with R	tration shading de	evices? (if "Yes", see Surfac Exteri	e NRCC-PRF-ENV-DE Re Type orWall	3. Area (ft²) 3200 4800	4. Framing Type Metal Metal	5. Cavity R-Value	6. Continuous R-Value 4 NA	§ 120.7/ U-Factor / C-F U-Factor U-Factor	§ 140.3 7. / F-Factor factor or: 0.104 or: 0.091	8. Status ¹ Z Z	Confi	irm
verification. Site-built fenesticatus: N - New, A - Altered, Italians Compliance creditations of the Surface of	ce Name I Metal Stud Floor with R Im R-30 Metal Floor Existing	tration shading de Y SUMMARY	evices? (if "Yes", see Surfac Exteri	e NRCC-PRF-ENV-DE Re Type orWall	3. Area (ft²) 3200 4800	4. Framing Type Metal Metal	5. Cavity R-Value	6. Continuous R-Value 4 NA	§ 120.7/ U-Factor / C-F U-Factor U-Factor	§ 140.3 7. / F-Factor factor or: 0.104 or: 0.091 or: 0.072	% Status ¹ Z Z Z	Confi	irm [
verification. Site-built fenesti Status: N - New, A - Altered, I Taking compliance cred K. OPAQUE SURFACE Surfa R-19 Wall	dit for fenest ASSEMBLY ASSEMBLY Metal Stud Floor with R MR R-30 Met E - Existing	tration shading de Y SUMMARY	evices? (if "Yes", see Surfac Exteri Exteri	e NRCC-PRF-ENV-DE	3. Area (ft²) 3200 4800 4800	4. Framing Type Metal Metal	5. Cavity R-Value	6. Continuous R-Value 4 NA	§ 120.7/ U-Factor / C-F U-Factor U-Factor	§ 140.3 7. / F-Factor factor or: 0.104 or: 0.091 or: 0.072	8. Status ¹ Z Z	No Confi	irm
verification. Site-built fenesticatus: N - New, A - Altered, Italians Compliance creditations of the Surface Surface R-19 Wall Raised Slab Standing Sea Status: N - New, A - Altered, Italians Complians Complians Status: N - New, A - Altered, Italians Complians Compli	ce Name I Metal Stud Floor with R Im R-30 Metal Floor Existing	tration shading de Y SUMMARY	evices? (if "Yes", see Surfac Exteri	e NRCC-PRF-ENV-DE Re Type orWall	3. Area (ft²) 3200 4800	A. Framing Type Metal Metal NA	5. Cavity R-Value 19 11 30	6. Continuous R-Value 4 NA NA	§ 120.7/ U-Factor / C-F U-Factor U-Factor	§ 140.3 7. / F-Factor actor or: 0.104 or: 0.091 or: 0.072	8. Status ¹ N N N N N N N N N N N N N N N N N N N	No Confi	irm [

Project Name:	120X40 (PC 04-116504) - Wall AC		NRC	CC-PRF-01-E	Page 11 of 19	-			Project Name:	120X40 (PC 04-116504) - Wa	I AC	NR	RCC-PRF-01-E	- 1
Project Address:	Climate Zone 14 Palmdale			culation Date/Time:	19:52, Sat, Jun 23, 201	.8			Project Address:	Climate Zone 14 Palmdale		Cal	Iculation Date/Time	\Box
Compliance Scope:	NewComplete			ut File Name:	120X40 PC - CZ14(Wal				Compliance Scope:	NewComplete		Int	out File Name:	
									U. ENERGY USE SUI	ANAADV				
See NRCC-LTI-01-E for uncondit Lighting information for existing	onea spaces spaces modeled is not included in the table										Standard Design Site	Proposed Design Site	e Margin	s
R INDOOR CONDITIO	NED LIGHTING SCHEDULE (Adapted	from NRCC-ITI-01-F)1			***		§ 1	30.0	Ene	gy Component	(MWh)	(MWh)	(MWh)	
	ludes all permanent installed lighting in									ndoor Fans	18.2	18.1	0.1	
	portable lighting over 0.3 w/ft ² in		i i	nstalled Watts (Cond	ditioned)		Conf	irmed	Н	eat Rejection				
offices)			·			T	ļ		Pt	ımps & Misc.				
	Complete Luminaire Description (i.e.,			is Determined	Total Number	Installed Watts	Pass	Fail	Dom	estic Hot Water				
Name or Item Tag	3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	CEC Default from NA8	According to §130.0(c)	Luminaires	ilistalleu watts	1 433	""	In	door Lighting	9.8	6.5	3.3	
L-1	3-LAMP / 32W / T8	96	Yes	No	40	3,840		\Box	COM	PLIANCE TOTAL	40.2	45.3	-5.1	
	used in the compliance model Building Departments					,,,,,,		<u>. </u>		Receptacle	12.7	12.7	0.0	
,gg po										Process				
S1. COVERED PROCES	S SUMMARY – ENCLOSED PARKING	GARAGES				§ 140.9		<u> </u>		Other Ltg				
This Section Does Not A	oply								Pr	ocess Motors				-
C2 COVERED PROCES	C CLIBARA A DV. CORABAEDCIAI VITCU	ENC				§ 140.9				TOTAL	52.9	58.0	-5.1	-
	S SUMMARY – COMMERCIAL KITCH	CIVO				3 140.5								
This Section Does Not A	оріу										. 67	KU.		
S3. COVERED PROCES	S SUMMARY – COMPUTER ROOMS			- *****	§ 140.9									
This Section Does Not A	· · · · · · · · · · · · · · · · · · ·								-		, C <i>I</i>			
S4. COVERED PROCES	S SUMMARY – LABORATORY EXHAU	JSTS				§ 140.9			-04					
This Section Does Not A	pply								レし					
T. UNMET LOAD HOU	DC													
							-							
This Section Does Not A	рріу													
							_							
U. ENERGY USE SUMI	MARY													

Project Address:	Climate Zone 14 Palmdale		Calc	ulation Date/Time:	19:52, Sat, Jun 23, 20:	18			
roject / tauress.	Cilliate Zone 14 Paintuale		- 1		19:52, Sat, Jun 23, 2018 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x				
Compliance Scope:	NewComplete		Inpu	ıt File Name:	120X40 PC - CZ14(Wa	II AC)R75RSPV.cibd16x			
	ng spaces modeled is not included in the table	And from NIDGG LTL 04 EV					§ 13	ın n	
	ONED LIGHTING SCHEDULE (Adap		·				9 13	0.0	
	cludes all permanent installed lighting portable lighting over 0.3 w/ft² in	g in	ir	nstalled Watts (Con	ditioned)	_	Confi		
	Complete Luminaire Description (How Wattage	is Determined	Total Number			_	
Name or Item Tag	ame or Item Tag 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)		CEC Default from NA8	According to §130.0(c)	Luminaires	Installed Watts	Pass	Fa	
L-1	3-LAMP / 32W / T8	96	Yes	No	40	3,840			
¹ If lighting power densities wer	e used in the compliance model Building Depart	ments will need to check prescriptive fo	rms for Luminaire Sched	dule details.					
C1 COVERED BROCE	SS SUMMARY – ENCLOSED PARK	ING GAPAGES				§ 140.9		-	
This Section Does Not A	ylqq								
	SS SUMMARY – COMMERCIAL KI	TCHENS				§ 140.9			
	SS SUMMARY – COMMERCIAL KI	TCHENS				§ 140.9			
S2. COVERED PROCE	SS SUMMARY – COMMERCIAL KI	TCHENS				§ 140.9			
S2. COVERED PROCE This Section Does Not A	SS SUMMARY – COMMERCIAL KI				§ 140.9	§ 140.9			
S2. COVERED PROCE This Section Does Not A	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO				§ 140.9	§ 140.9			
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply	PMS					-		
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX	PMS				§ 140.9			
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX	PMS							
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX	PMS							
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE This Section Does Not A	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX Apply JRS	PMS							
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE This Section Does Not A T. UNMET LOAD HOL	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX Apply JRS	PMS				§ 140.9			
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE This Section Does Not A T. UNMET LOAD HOL	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX Apply JRS Apply	PMS				§ 140.9			
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE This Section Does Not A T. UNMET LOAD HOU This Section Does Not A U. ENERGY USE SUM	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX Apply JRS Apply	HAUSTS	posed Design Site (MWh)	Margin (MWh)		§ 140.9		argii	
S2. COVERED PROCE This Section Does Not A S3. COVERED PROCE This Section Does Not A S4. COVERED PROCE This Section Does Not A T. UNMET LOAD HOL This Section Does Not A U. ENERGY USE SUM Energ	SS SUMMARY – COMMERCIAL KI Apply SS SUMMARY – COMPUTER ROO Apply SS SUMMARY – LABORATORY EX Apply JRS Apply	HAUSTS Standard Design Site Pro			Standard Design Site	§ 140.9 Proposed Design Site			

S2. COVERED PROCESS SUMMARY – COMMERCIA	AL KITCHENS				§ 140.9	
This Section Does Not Apply		-				
S3. COVERED PROCESS SUMMARY – COMPUTER	ROOMS			§ 140.9		
This Section Does Not Apply					· · · · · · · · · · · · · · · · · · ·	
S4. COVERED PROCESS SUMMARY – LABORATOR	Y EXHAUSTS				§ 140.9	
This Section Does Not Apply						
T. UNMET LOAD HOURS						
This Section Does Not Apply						
U. ENERGY USE SUMMARY					-	
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	-	6.4		51.5		
Space Cooling	12.2	14.3	-2.1			
CA Building Energy Efficiency Standards- 2016 Nonreside		Report Version: NRCC-PRF-0			port Generated at: 2018-06-2	2.40.52.20

NRCC-PRF-01-E Page 9 of 19 120X40 (PC 04-116504) - Wall AC Project Name: Calculation Date/Time: 19:52, Sat, Jun 23, 2018 Climate Zone 14 Palmdale Project Address: 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x Compliance Scope: NewComplete

M. HVAC SYSTE	M SUMMARY (see N	RCC-PRF-MCH-D	ETAILS	for more info	rmation)					§ 110.1 / § 110.	2		
		Dry S	ystem	Equipment ¹ (Far	n & Economizer i	info included be	low in Table N)					Confi	irmed
1.	2.	3.	4.	5.	6.	7.	8.	9).	10.	11.		
Equip Name	Equip Type	System Type (Simple ² or	Qty	Total Heating Output	Supp Heat Source (Y/N)	Supp Heat Output	Total Cooling Output	Effici	ency	Acceptance Testing Required? (Y/N)	Status	Pass	Fail
		Complex 3)		(kBtu/h)		(kBtuh)	(kBtu/h)	Cooling	Heating	4	55		
AC-1 to AC-5	SPVHP (Packaged1Phase)	Simple	5	40	No	0	38	EER-11.00	COP-3.40	Yes	N		

¹ Dry System Equipment includes furnaces, air handling units, heat pumps, etc. ² Simple Systems must complete NRCC-CXR-03-£ commissioning design review form ³ Complex Systems must complete NRCC-CXR-04-E commissioning design review form ⁴ A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS ⁵ Status: N - New, A -- Altered, E -- Existing

Wet System Equipment Section Does Not Apply Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)

I. ECONOMIZE	R & FAN S	STEMS S	UMMAR	/1		. <u> </u>	·					§ 140.4	Confi	rmed	
1.	2.	3. 4.								5.					
Equip Name	Outside Air	ttside Supply Fan							Retu	ırn Fan		Economizer Type	Pass	 Fail	
	Air CFM			CFM	НР	ВНР	TSP (inch WC)	Control	CFM	НР	внр	TSP (inch WC)	Control	(if present)	i v
AC-1 to AC-5	360	1250	0.750	0.750	1.90	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer			

¹ Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

	ciency Standards- 2016 Nonresidential Compliance		
Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 12 of 19
roject Address:	Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Indoor Fans	18.2	18.1	0.1			
Heat Rejection						
Pumps & Misc.				·		
Domestic Hot Water		-		37.1	37.1	0.0
Indoor Lighting	9.8	6.5	3.3			
COMPLIANCE TOTAL	40.2	45.3	-5.1	88.6	37.1	51.5
Receptacle	12.7	12.7	0.0			
Process						
Other Ltg						
Process Motors			-:-	-		
TOTAL	52.9	58.0	-5.1	88.6	37.1	51.5

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Generated at: 2018-06-23 19:53:38

Report Version: NRCC-PRF-01-E-06152018-5302

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION



PROFESSIONAL STAMP



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ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0 AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE **EXPANDABLE TO**

> PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

Revision Schedule

120'x40' T24 CZ 16

PROJECT NUMBER 17016A

DRAWN BY rMc/SC

CHECKED BY JA/RT

07/05/2018

M2.2

SHEET OF SHEETS

Report Version: NRCC-PRF-01-E-03092018-5302 CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Address: 83, Windswept Way

Phone: (949)830-4746

City/State/Zip: Mission Viejo Ca. 92692

Date Signed: 06/25/2018

Declaration Statement Type:

Report Generated at: 2018-04-16 15:25:39

License #: M26885

Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 15 of 19
Project Address:	Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

Input File Name: Compliance Scope: NewComplete

Project Name: 120X40 (PC 04-116504) - Wall AC NRCC-PRF-01-E Page 17 of 19 Climate Zone 14 Palmdale Calculation Date/Time: 19:52, Sat, Jun 23, 2018 Project Address: 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEN	IBLY DETAILS						
1.	2.	2. 3.					
Surface Name	Surface Type	Description of Assembly Layers	Notes	ass	Fail		
R-19 Wall Metal Stud5	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in. Expanded Polystyrene - EPS - 1 in. R4.2					
Raised Slab Floor with R-12	ExteriorFloor	Concrete - 140 lb/ft3 - 4 in. Metal framed floor, 24in. OC, 5.5in., R-11 Plywood - 1/2 in. Carpet - 3/4 in.					
Standing Seam R-30 Metal14	Roof	Metal Standing Seam - 1/16 in. Metal standing seam roof, R-30					

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

'''	This	Section [oes	Not Apply	
-----	------	-----------	-----	-----------	--

C. OPAQUE DOOR	SUMMARY
This Costion Doos No	+ Annhu

This Section Does Not Apply		_
	This Section Does Not Apply	

Building Energy Efficiency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-F-061

D	M	NIDCC	04 5	0.01	F2010	F202

Report Generated at: 2018-06-23 19:53:38

A. MECHANICAL V	ENTILATION	AND REI	HEAT (Ada	pted fron	n 2016-Ni	RCC-MCH	-03-E)								·	-	Confi	rmed
		1. DESIGN	AIR FLOW	/S						7	2. VENT	LATION	(§ 120.1	.)					
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
	AC-1 to							AC-1 to			120.0								

JIVAL STSTEIVI AI	ND TERMINAL UNI	I SUIV	WAKY										§ 140	1.4				
1.	2.	3.	4	١.	5.	6.		7.			8.		Confi	irme				
System ID	Sustain Tuna	Otri	Rated Capacity (kBtuh)		(kBtuh)		(kBtuh)		Economizer	Zone Name	A	irflow (cfn	n)		Fan		Pa	
System ID	System Type	Qty	Heating	Cooling	Etolioillizer	zone Name	Design	Min.	Min. Ratio	внр	Cycles	ECM Motor	Fail Pass					
1-First Floor-Trm	Uncontrolled	5	NA	NA	. NA	1-First Floor	6250	NA	NA	NA	NA	П	П	Т				

C. EXHAUST FAN SUMMARY

- 1						
	This	Section	Does	Not	vlaaA	

D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)

NRCC-PRF-MCH-DETAILS -SECTION START-

- 1					
	This Se	ction	Does	Not	Apply

CA Building Energy Effici	ency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-06152018-530	2 Report Generated at: 2018-06-23 19:53:38
Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 16 of 19
Project Address:	Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This	Section	Does	Not	Annly

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section	Does	Not	Арр
11115 55561011	DUCS	1100	WPP

G. MECHAN	ICAL HV	AC ACCE	PTANCE '	TESTS &	FORMS ((Adapted	from 20	016-NRC	С-МСН-О)1-E)									§ RA	1
Declaration o nspector to v		d Accepta	ance Cert	ificates (N	IRCA) – A	cceptance	e Certifica	tes that n	nay be sul	bmitted. (Retain co	pies and v	erify forn	ns are con	npleted a	nd signed	to post in	field for	Field	
Test Descri	iption	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Conf	rme
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fall
AC-1 to	5	Х																		Г

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Report Generated at: 2018-06-23 19:53:38	

NRCC-P	RF-LTI-	DETAILS	-SECTION	I STAF

A. INDOOR COI	§ 140.6								
Lighting Con	·	ghting controls installed in condition 0.6(a)2 and Table 140.6-A)	ed space for	Con	trol Credit Calcula	ntion	al If A acoustoman	Confi	rmed
Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts	V If Acceptance Test Required	Pass	Fail
S-1-First Floor	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0			

Ι .		•			•	_	 -	
							 	
	B. INDOOR CONDITIONED LIGHTING MANU	DATORY LIGHTING CONTROLS (Adap	oted from NRCC-LTI-	-02-E)			§ 13	0.1

This Section Does Not Apply 6130.1(a) = Manual area controls: 6130.0(b) = Multi Level: 6130.1(c) = Auto Shut-Off: 6130.1(d) = Mandatory Daylight: 6130.1(e) = Demand Responsi

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply	

E. GENERAL LIGH	TING FROM SPECIAL FUNCTION AREAS (Adapt	ed from NRCC-LTI-0	04-E)				§ 140.6(:) 3H
Room Number	Primary Function Area	Illuminance Value	Room Cavity Ratio	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confi	rmed
Koom Number	Primary Function Area	(LUX)	(Table G)	Allowed LFD	FIOOI Alea (It.)	Allowed Watts	Pass	Fail
NI A	NA ·	NIA	. NA	NIA	NIA	ħΙΛ		

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06152018-5302 Report Generated at: 2018-06-23 19:53:38 120X40 (PC 04-116504) - Wall AC NRCC-PRF-01-E Page 18 of 19 roject Name: Project Address: Climate Zone 14 Palmdale Calculation Date/Time: 19:52, Sat, Jun 23, 2018 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x Input File Name: Compliance Scope: NewComplete

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

	•	Rectangu	lar Spaces	•			
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confi	irmed
Koom Number	lass/Activity Description	Kooiii Leilgiii (it)	Koom width (it)	ROOM Cavity Height (It)	RCK	Pass	Fail
NA NA	NA	NA	NA	NA	NA		
Non Dostonaulou Cunos				-			

Non-Rectangular Spaces

This Section Does Not Apply
Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT	" (Adapted from NRCC-LTI-04-E)					
1.	2.	3.	4.		Confi	rmed
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail
0	0	0	0	0		

5. Wall Display

This Section Does

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

NewComplete

This Section Does Not Apply

. Very Valuable Merchandise

6. Floor Display and Task Lighting

٥.	very valuable interchancise	
Th	nis Section Does Not Apply	

Compliance Scope:

Demand Responsive **Outdoor Controls**

Report Version: NRCC-PRF-01-E-06152018-5302 CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Generated at: 2018-06-23 19:53:38 120X40 (PC 04-116504) - Wall AC NRCC-PRF-01-E Page 19 of 19 Project Name: Climate Zone 14 Palmdale Calculation Date/Time: 19:52, Sat, Jun 23, 2018

Input File Name:

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)

Test Description		.	Indoor			Confirmed	
iest Descri	puon	NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A		
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	Pass	Fail
Occupant Sensors	0						
Automatic Time Switch	0						
Automatic Daylighting	0	. 🗆	×				
				 			-

APPROVED DIVISION OF STATE ARCHITECT

120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

§ 130.4

DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE 105 San Diego, CA 92128 WWW.RSTAVARES.COM

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§ 140.6-D



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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0

AC RM FLS EA SSR KER DATE__ 07/19/2018

PROJECT TITLE

24' x 40'

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239

Revision Schedule

Description

120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER 17016A

DRAWN BY rMc/SC

CHECKED BY JA/RT DATE

SHEET NO.

07/05/2018

Mandatory Measures: The following notes (items) represent the Mandatory Measures for all buildings.

Heat pumps with supplementary electric resistance heaters shall have controls:

- 1) That prevent supplementary heater operation when the heating load can be met by the heat pump alone; and
- 2) In which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.

Sec. 110.2 (b)

The minimum rate of outdoor air required per Section 120.1 (b) 2 shall be supplied to each space at all time the space is usually occupied.

Sec. 120.1 (c) 3

The Lesser of the minimum rate of outdoor air required by Sec. 120.1 (b) 2, or three complete air changes shall be supplied to the entire building during the one-hour period immediately before the building is normally occupied.

Sec. 120.1 (c) 2

Hotel/Motel Guest Room Thermostats shall have numeric temperature set points in degrees F; and set point stops accessible only to authorized personnel, to restrict overheating and over-cooling.

Sec. 120.2 (c)

All air distribution system ducts and plenums, including, but not limited to, building cavities, mechanical closets, air-handler boxes and support platforms used as ducts or plenums, shall be installed, sealed and insulated to meet the requirements of chapter 6 of the 2001 CMC. Supply-air and return-air ducts conveying heated or cooled air shall be insulated to a minimum installed level of R-8, unless ducts are in conditioned space. Sec. 120.4 (a)

The thermostatic controls for HVAC systems shall meet the following requirements as applicable:

- a) Each space conditioning zone shall be controlled by an individual thermostatic control that responds to temperature within the zone and meets the applicable requirements of Subsection (b).
- b) Each Thermostatic control required by Subsection (a) shall be capable of being set locally or remotely by adjustment or selection of sensors to control:
 - Comfort heating down to 55°F or lower.
 - Comfort Cooling up to 85°F or higher.
 - Both heating and cooling, the thermostatic controls shall be capable of providing a temperature range or dead band of at least 5°F within which the supply of heating and cooling energy to the zone is shut off or reduced to a minimum.

- 1) Outdoor air supply, and rechance equipment shall be installed with dampers that into close region find alurdown.

 Sec. Lz.

 2) Descript Centred Ventilation Devices (CO2 sensors) shall be installed in neconchare with Sec. 12.0.1 (c) 4

 Sec

 - - heating; and EXCEPTION: Area with the design winter outdoor temperature of greater
 - A setup cooling thermostat set point, if the system provides mechanical cooling.

EXCEPTION: Area with the design summer outdoor temperature of less than 100°F. EXCEPTION: Systems serving hotel/motel guest rooms, if they have a

Sec. 120.2 (e)

4) The piping for all space conditioning and service water heating systems shall be insulated in accordance with TABLE 123-A.

readily accessible manual shut-off switch.

Sec. 120.3

5) Service water heating systems and equipment shall meet the applicable requirements of the Appliance Efficiency Regulations as required by Sec. 110.1.

Sec. 110.3 (b)

6) Service hot water systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system.

Sec. 110.3 (c) 2

7) Lavatories in public restrooms shall have controls that limit the water supply temperature to

Sec. 110.3 (c) 3

DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE 105 SAN DIEGO, CA 92128

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ORIGINAL PC STATE AGENCY APPROVAL

Perris, CA 92571

FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

AC RM FLS EA SSR KER DATE 07/19/2018

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT Code: | 2016 | CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239

Revision Schedule

Description

120'x40' T24 CZ 16 (WALL AC)

17016A DRAWN BY rMc/SC CHECKED BY JA/RT

PROJECT NUMBER

07/05/2018

M2.4

DATE

GENERAL NOTES:

1- DUCTWORK SHALL HAVE R-8 INSULATION.

2- PER 2016 CALIFORNIA MECHANICAL CODE (CMC) SECTION 603.4.1 AND SECTION 603.5 FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE MORE THAN FIVE (5) FEET IN LENGTH AND SHALL BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS.



DESIGN & COMBULTING & PROJECT 11777 BERNARDS PLAZA COMMIL SUITE 105 EAN DIEGO, CA 92126

SELECT A VARUE OF SELECTION

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LEASING LLC 1221 Haney Knox Boulevard Perris. CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

AC_RM_FLS_EA_SSR_KER -DATE____07/19/2018

PROJECT TITLE

24' x 40'

EXPANDABLE TO

120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

04 118239

ACS___FLS__7 SS__
DATE__MAR_0_7 2019

Revision Schedule
Description Da

SHEET TITLE
ME CHANICAL
CELLING PLAN
24x40

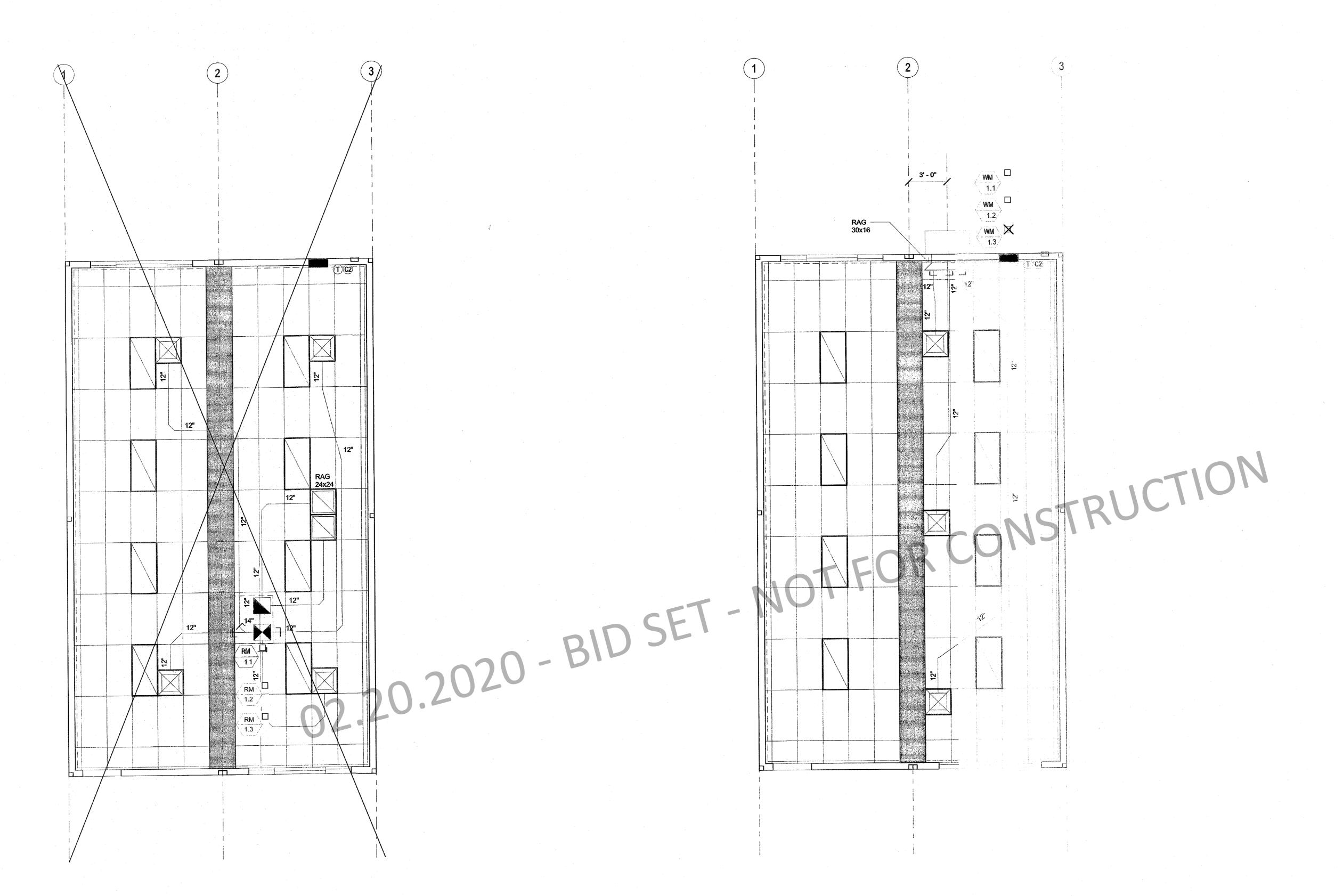
PROJECT NUMBER

17016A DRAWN 6Y

CHECKED BY

JA/RĨ

2017/0**6/0**5



b. STRUCTURAL W-SHAPES:c. TUBE STEEL:

ALL OTHER:

ASTM A992 GRADE 50 ASTM A500 GRADE B ASTM A36

FABRICATION, ERECTION, AND SHOP PAINTING SHALL BE IN ACCORDANCE WITH THE

PROVISIONS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED, UNLESS SPECIFIED IN THE STRUCTURAL DRAWINGS

CONCRETE

A. ALL CONCRETE WORK, UNLESS MODIFIED BY CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 19A, CBC 2013 AND ACI 318-11.

B. TESTS AND INSPECTION SHALL BE PERFORMED BY A TESTING LABORATRY CONTRACTED BY THE

C. MIX DESIGN SHALL BE SUBMITTED FOR QUALIFICATION AND PROVIDE A 28-DAY COMPRESSIVE STRENGTH F'C OF 3500 PSI, COMPOSED OF NORMAL WEIGHT TYPE I PORTALAND CEMENT IN CONFORMANCE WITH ASTM C150.

D. FORMWORK SHALL RESULT IN FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS AS REQUIRED BY THE CONTRACT DOCUMENTS.

E. LOCATIONS OF VENTS AND OPENINGS FOR MECHANICAL AND ELECTRICAL USE SHALL BE VERIFIED BY ARCHITECT.

F. EMBEDMENT OF MATERIALS NOT HARMFULL TO CONCRETE AND WITHIN LIMITATIONS OF SECTION 6.3, ACI-318-11 SHALL BE PERMITTED. REFER TO OTHER DISCIPLINES FOR LOCATION OF CONDUIT, PIPES, FITTINGS, SLEEVES, ETC.

G. CONTINUOUS BATCH PLANT INSPECTION WAIVED PER CBC 1705A3.3. WHEN CONTINUOUS BATCH PLANT INSPECTION

WAIVED, THE FOLLOWING PERIODIC INSPECTION SHALL BE REQUIRED:(INSPECTIONS PROVIDED BY DISTRICT)

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTIFY AND CERTIFY TO EACH

BY A BATCH TICKET.

3. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH THE LOAD IDENTIFIED

THEREON. THE

LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A

DAILY RECORD OF PLACEMENTS, IDENTIFYING FACH TRUCK, ITS LOAD, AND

INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

I. ANCHOR BOLTS, AND REINFORCING STEEL SHALL BE SECURELY TIED BEFORE CONCRETE IS POURED.

STEEL REINFORCEMENT

DEFORMED BARS SHALL CONFORM TO ASTM A615.

B. fy= 40,000 PSI, FOR ALL BARS EXEPT FOR #3 BARS, fy= 60,000 PSI.

PROVIDE A MINIMUM CONCRETE COVER FOR REINFORCEMENT EMBEDDED IN:

a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"

b. CONCRETE EXPOSED TO EARTH OR WEATHER FOR #5 BARS OR SMALLER = 1.5"

SPLICE LENGTHS SHALL BE A MINIMUM OF 48" FOR #5 BARS. AND 30" FOR #4 BARS UNITESS OTHERW.

SPLICE LENGTHS SHALL BE A MINIMUM OF 48" FOR #5 BARS, AND 30" FOR #4 BARS UNLESS OTHERWISE SPECIFIED DRAWINGS.

BOLTS

A. ALL BOLTS AND ANCHOR BOLTS SHALL COMFORM ATO ASTM A-307

B. BOLTS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED BY THE HOT-DIP OR MECHANICAL

WELDING

A. ALL WELDING SAHLL BE IN COMFORMANCE TO:

a. AWS D1.1, EXCEPT AS MODIFIED IN SECTION J2, AISC-360 FOR STEEL

b. AWS D1.3 FOR LIGHT GAUGE STEELc. AWS D1.4 FOR REINFORCING STEEL

B. ELECTRODE CLASSIFICATION:

a. E70XX FOR STEEL AND CONCRETE STEEL REINFORCEMENT

b. E60XX FOR LIGHT GAUGE STEEL
 C. WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V-NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER

a. LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT-LB AT 0 DEGREE F
 b. COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT-LB AT 40 DEGREE F

D. SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

E. INSPECTION:

a. PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND ROOF DECK WELDS.

b. CONTINUOUS INSPECTION FOR OTHER WELDS.

NONDESTRUCTIVE TESTING (NDT):

a. ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN

MATERIALS 5/16" OR THICK OR GREATER. ULTRASONIC TESTING NOT REQUIRED FOR MATERIALS

LESS THAN 5/16" THICK. TESTING FREQUENCY MAY BE REDUCED TO 25%, PROVIDED

PROVISIONS SET FORTH IN SECTION N5.5e, AISC-360 IS MET.

b. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP
GROOVE WELDS. TESTING FREQUENCY MAY BE REDUCED TO 10%, PROVIDED PROVISIONS
SET FORTH
IN J6.2g, AISC-341 IS MET.

FOUNDATIONS

GEOTECHNICAL INVESTIGATION SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 1803A.1 THROUGH 1803A.8 BY A GEOTECHNICAL ENGINEER CONTRACTED BY THE DISTRICT. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TALBLE 1806A.2, WHERE GEOTECHNINCAL REPORTS IS NOT REQUIRED PER SECTION 1803A.2. A MAXIMUM ALLOWABLE SOIL PRESSURE OF 1000 PSF AND 1500 PSF SHALLBE PERMITTED FOR TEMPORARY WOOD AND PERMANENT CONCRETE FOUNDATIONS RESPECTIVELY IN ACCORDANCE WITH SECTION 4.6, IR 16-1.13

A PREVIIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED. THE ALLOWABLE FOUNDATIONA AND LATERAL SOIL PRESSURE VALUES ARE ALLOWED A 33% INCREASE FOR SHORT TERM WIND AND SEIMIC LOADS.

THE DISTRCT SHALL BE RESPONSIBLE FOR EXCAVATION, BACKFILL, SETTING ELEVATIONS, CRANING AND RIGGING. PROVIDE SHIMS TO LEVEL BUILDING WITHIN 1/2" TOLERANCE.

COLD-FORMED STEEL:

A. ALL WORK SHALL, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AISI SPECIFICATIONS AND STANDARDS.

B. MATERIAL SPECIFICATION:

a. ASTM A-1011/A, GRADE 33 FOR MATERIALS THICKNESS 0.120 OR LESS UNLESS OTHERWISE NOTED

b. ASTM A-1003, GRADE 33 TYPE HIFOR LIGHT GUAGE STUDS AND TRACKS

b ASTM A-1003, GRADE 33 TYPE H FOR LIGHT GUAGE STUDS AND TRACKSc. SHAPES SHALL BE DIMENSIONED TO SSMA SPECIFICATIONS.

C. SCREWS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED

STEEL DECK

MINIMUM THICKNESS PERMITTED FOR FLOOR STEEL DECKS IS 20GA. PER DSA IR 16-1.13, 1.2.1, MINIMUM THICKNESS OF NON-STRUCTURAL STEEL ROOF DECKING IS 26GA. STANDING SEAM ROOF PANELS ARE GRADE 40 SHEET STEEL WITH AN ALUMINUM ZINC COATING CONFORMING TO ASTM A792 AND AZ55.

CHANGES

12" = 1'-0" CHANGES AFFECTING STRUCTURAL PORTION OF THE APPROVED PC SHALL NEED DSA APPROVAL AND STRUCTURAL SHOTES CLASSIFIED AS CCD CATEFORY A.

door

ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY

HEATHING:

EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION IN ACCORDANCE WITH THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD, SHALL PROVIDE A SMOOTH AND UNIFORM SURFACE

CAPABLE OF ACCEPTING CARPET FINISH
PLYWOOD ROOF DECK OPTION: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING

EXTERIOR WALL SIDING:

1. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL

II. OPTION: 5/8" MOD

III. OPTION: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
IV. OPTION: 1/2" OSB OR CDX PLYWOOD FOR HARDIE BOARD (LAP SIDING) FINISH

4. EXTERIOR WALL SIDING ATTACHMENT:

FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS, SILICON BRONZE OR COPPER PER CBC SECTION 2304.9.1.1

FASTEN TO WOOD FRAMING WITH 8D BOX NAILS @ 6" E.N., 12" F.N.
FASTEN TO LIGHT GAGE METAL FRAMING WITH #8 WAFER HEAD STSMS @ 6" E.N., 12" F.N.
FASTEN TO STRUCTURAL STEEL WITH #12 STSMS OR 0.145 DIAM SHOT PINS @ 12" O.C.

TREATED WOOD:

ALL WOOD LOCATED WITHIN 6" OF EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL IN ACCORDANCE WITH CBC SECTION 2304.11.2.2.

ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
 ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER

DRIVEN FASTENERS (ICC # ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR

ROOF DIAPHRAGM:

3/4" T&G RATED SHEATHING, EXPOSURE 1, 48/24 SPAN RATING FASTEN AT METAL SUPPORTS W/ #10 x 1 1/4" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS @ 4" O.C. BN, 6" O.C. EN, AND 12" O.C. FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:

1 1/8" PLYWOOD - STURD-I-FLOOR T&G RATED SHEATHING, EXTERIOR, 48" oc SPAN RATING FASTEN AT METAL SUPPORTS W/ #10 - 24 x 1 3/4" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS @ 6" O.C. BN, 6" O.C. EN, 12" FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR STRENGTH: 3500 PSI

COPPER PER CBC 2304.9.5.1

TYPE: I OR II
DESINTY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:

2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK

NAILING NOTES:

SCREWS AT 24" OC.

ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED

MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE

SECOND MEMBER, AND SHALL NOT BE LESS THAN 3" IN OVERALL LENGTH.

NAILS SHALL BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIREMENT EMBEDMENT IS MAINTAINED.

CONNECTIONS AND FASTENERS:

ALL CONNECTIONS AND FASTENERS IN DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT PROVIDING ICC REPORTS ARE SUBMITTED TO AND APPROVED BY DSA.

CONNECTIONS LAG SCREWS:

CONNECTIONS LAG SCREWS:

LAG SCREWS SHALL BE INSTALLED WITH WASHER AND TURNED BY WRENCH, OVER-TORQUING SHALL BE AVOIDED. A
PRE-DRILLED CLEARANCE AND LEAD HOLE SHALL BE REQUIRED AS DESCRIBED BELOW:

a) THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OR THE SHANK SHALL HAVE SAME DEPTH AND DIAMETER.

b) THE LEAD HOLE FOR THE THREADED PORTION OF THE SHANK SHALL HAVE SAME DEPTH AND 65% TO 85% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, G > 0.6 60% TO 75% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, 0.5 < G \leq 0.6 40% TO 70% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, G \leq 0.5

LEAD OR CLEARANCE HOLES SHALL NOT BE REQUIRED FOR 3/8" DIAMETER OR SMALLER LAG SCREWS.

BALLISTIC PINS OPTIONS

SIMPSON STRONG TIE PDP PIN WITH 0.145 SHANK DIAMETER, ICC ESR-2138

1. HILTI X-CR PIN WITH 0.145 SHANK DIAMTER, ICC ESR-1663
2. RAMP SET 1500 PIN WITH 0.145 SHANK DIAMETER, ICC ESR-1799

NAILING SCHEDULE: (ALL NAILS SHALL BE COMMON, GALVANIZED WHERE EXPOSED) PER C.B.C. TABLE 2304.9.1

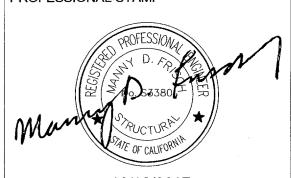
THE	-	CONNECTION	FASTENING	LOCATION	
JRFACE	1.	JOIST TO SILL OR GIRDER	3-8d	TOENAIL	
	2.	BRIDGING TO JOIST	2-8d	TOENAIL EA. END	
G	3.	1X6 OR LESS SUBFLOOR TO EA. JOIST	2-8d	FACE NAIL	
	4.	WIDER THAN 1X6 SUBFLOOR TO EA. JOIST	3-8d	FACE NAIL	
	5.	2" SUBFLOOR TO JOIST	2-16d	BLIND & FACE NAIL	
	6.	SOLE PLT. TO JOIST OR BLK'G. TO EA. JOIST	16d@16"	TYP. FACE NAIL	
PPED		SOLE PLT. TO JOIST OR BLK'G. @ BRACED WALL PANEL	3-16d@16"	TYP. FACE NAIL	
	7.	TOP PLT. TO STUD	2-16d	END NAIL	
	8.	STUD TO SOLE PLT.	2-16d	END NAIL	
F.N.		OR	4-8d	TOENAIL	
C.	9.	DOUBLE STUDS	16d@24"	END NAIL	
	10	DOUBLE TOP PLT.	16d@16"	TYP. FACE NAIL	
	10.	DOUBLE TOP PLT:	8-16d MIN. U.N.O.		
	4.4			·	
TURALLY		BLKG. BTW. JOIST OR RAFTERS TO TOP PLT.	3-8d	TOENAIL	
OWER		RIM JOIST TO TOP PLT.	8d@6"	TOENAIL	
38,	13.	TOP PLT., LAPS &	2-16d	FACE NAIL	
VOOD	14.	INTERSECTIONS CONT. HDR. 2 PIECES	16d@16"	ALONG EDGE	
ONZE OR	15.	CLG. JOIST TO PLT.	3-8d	TOENAIL	
	16.	CONT. HDR. TO STUD	4-8d	TOENAIL	
	17.	CLG. JOIST LAP OVER PARTITONS	3-16d	FACE NAIL	
	18.	CLG. JOIST PARALLEL TO RAFTERS	3-16d	FACE NAIL	
CE FOR	19.	RAFTER TO PLT.	3-8d	TOENAIL	
		1" DIA. BRACE TO EA. STUD & PLT.	2-8d	FACE NAIL	
	21.	1X8 SHT'G. TO EA. BRG.	3-8d	FACE NAIL	
		WIDER THAN 1X8 SHT'G. TO BRG.	3-8d	FACE NAIL	
ENERS TO	23.	BUILT-UP CORNER STUDS	16d@24"	FACE NAIL	
	24.	BUILT-UP GIRDERS & BEAMS	20d@32"	FACE NAIL @ TOP & BTM. STAGR. ON	
			2-20d	OPP. SIDES FACE NAIL @ ENDS	
	o.=	ON DI ANUGO	0.404	& @ EA. SPLICE	
		2" PLANKS	2-16d	@ EA. BRG.	
		COLLAR TIE TO RAFTER	3-10d	FACE NAIL	
		JACK RAFTER TO HIP	3-10d	TOENAIL	
K	26.	ROOF RAFTER TO 2X RIDGE	2-16d 2-16d	TOENAIL FACE NAIL	~ 1111
	20	JOIST TO BAND JOIST	3-16d	FACE NAIL	1 11 / 1
	30.	4X BLOCKING TO STUDS	1-A34	FACE NAIL	
			- 10	INU	
INTAINED.		-0(
		CUK C			
OVIDING ICC		70.			
MO					
VOIDED. A					

DESIGN • CONSULTING • PROJECT

11777 BERNARDO PLAZA COURT, SUITE 1D5

SAN DIEGO, CA 92128

PROFESSIONAL STAMP



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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128

identification stamp division of the state architect 04 - 116504 INCR: 0

AC_RM_FLS_EA_SSR_KER

DATE_ 07/19/2018

PROJECT TITLE

24' x 40' EXPANDABLE T 120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

Revision Schedule

Description

STRUCTURAL GEN

NOTES

17016A

PROJECT NUMBER

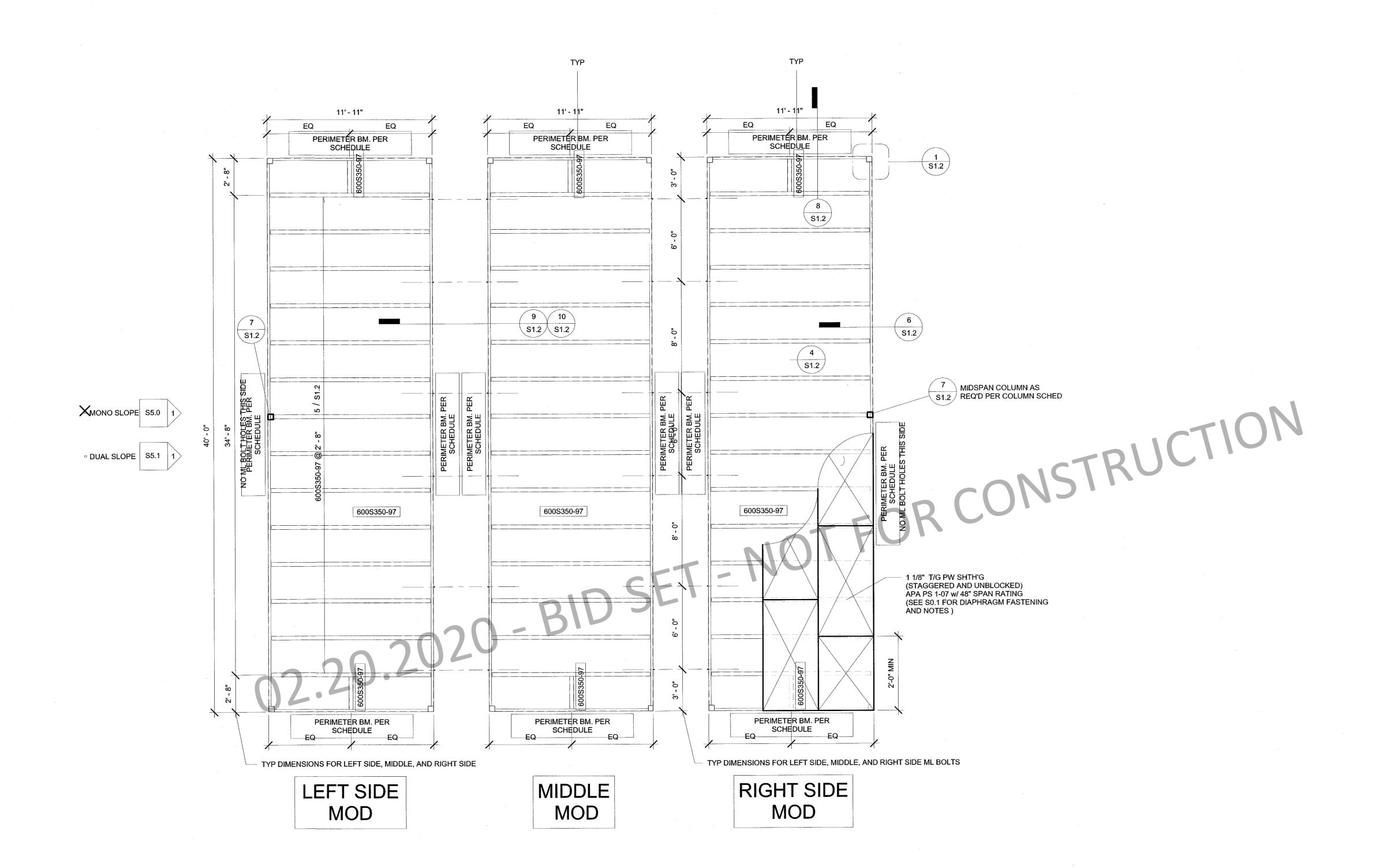
DRAWN BY rMc/SC

CHECKED BY

JA/RT

2017/06/05 SHEET NO.

S_{0.1}



Perimeter Floor Beam Schedule				
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max	
X ′9'	C8x11.5	C8x11.5	C8x11.5	
☐ 10'	C8x11.5	C8x11.5	C8x11.5	

NOTE: SPLICE AT FLOOR BEAM PERMITTED PER 3/S1.2

HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
X 9'	5x5X1/4	5x5X1/4	5x5X1/4
□ 10'	5x5X1/4	5x5X5/16*	5x5X5/16*
			3x3X3/16 mid-span column

DESIGN + CONSULTING + PROJECT

11777 BERNARDO PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128

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12/19/2017

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ENT

LEASING LLC

1221 Harley Knox Boulevard
Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

AC RM FLS EA SSR KER

DATE 07/19/2018

PROJECT TITLE

24' x 40' EXPANDABLE TO 120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239

ACS___FLS__SS__DATE___MAR____7_20/9

Revision Schedule

Description

WD SHTH'G FLR FRM'G PLAN

(50+15 PSF)

rMc/SC

PROJECT NUMBER

17016A

DRAWN BY

CHECKED BY

CHECKED BY

JA

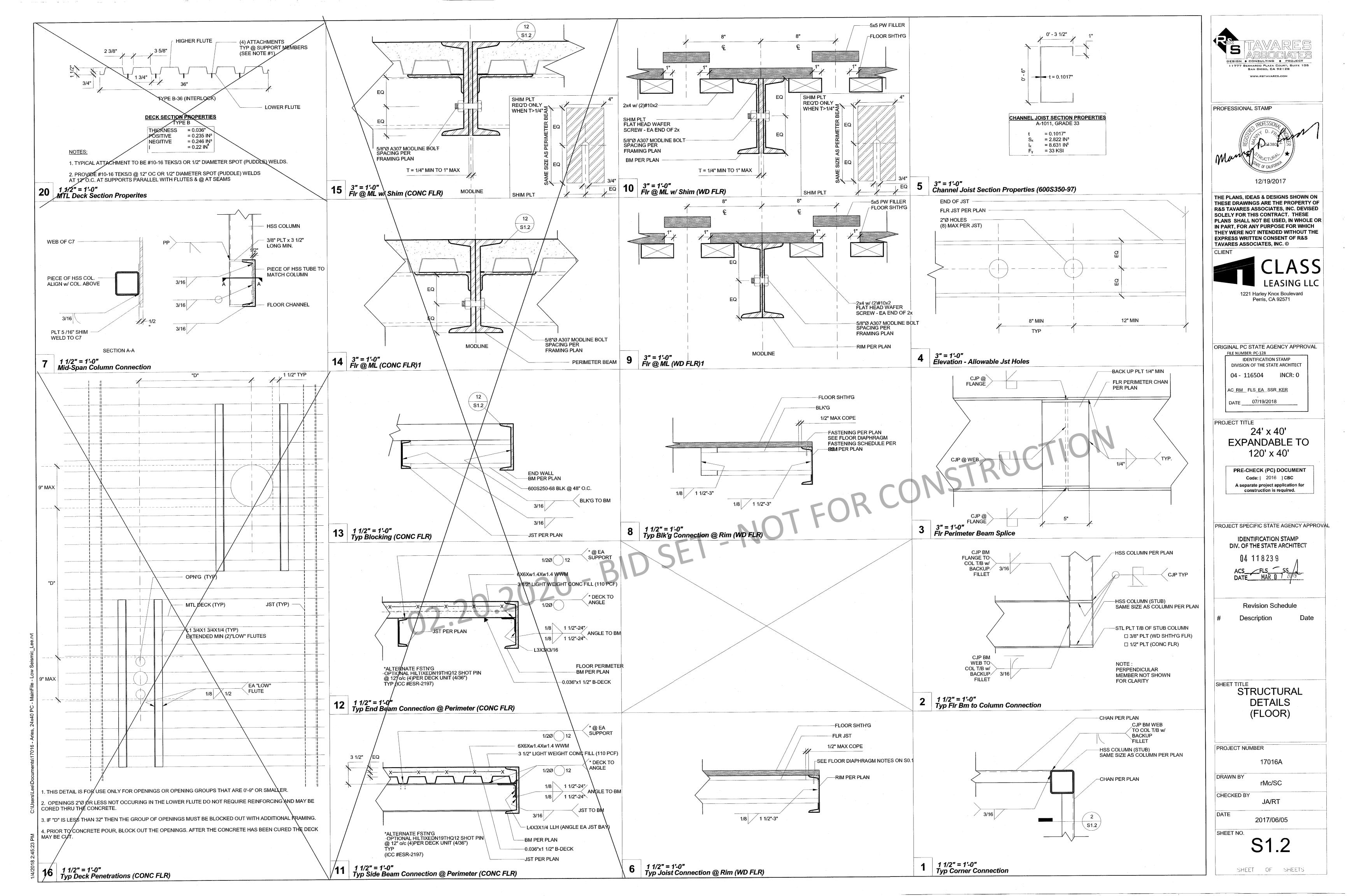
ATE 2017/06/05

HEET NO.

SHEET OF SHEETS

1/4" = 1'-0"
WD Shth'g Fir Framing Plan (50+15 PSF)

Alterna



OPT. 2 OPT. 1

800S200-68

TRUSS

OH 16 S3.1

15 14 13

\$3.2 \ \$3.2 \ \$3.2 \ 10 \ 9 \ 8

S3.2 S3.2 S3.2

METAL PARAPET AT OVERHANG

WOOD PARAPET AT OVERHANG

800S200-68

TRUSS

LOCATION OF FIRE SPRINKLER AND ADDITIONAL JOIST TO BE DETERMINED

S3.1

(1 BRACE AT

EITHER BLK'G)

800S200-68

(12 S3.1)

800S350-118

S3.1

S3.2

METAL PARAPET

WOOD PARAPET

800S350-118

(2)

S3.2



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ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0

FILE NUMBER: PC-128

AC RM FLS EA SSR KER DATE ____07/19/2018

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239 ACS___FLS__SS___ DATE___MAR_0 7 201/

Revision Schedule

Description

MONO SLOPE ROOF FRM'G PLAN

PROJECT NUMBER 17016A

DRAWN BY rMc/SC

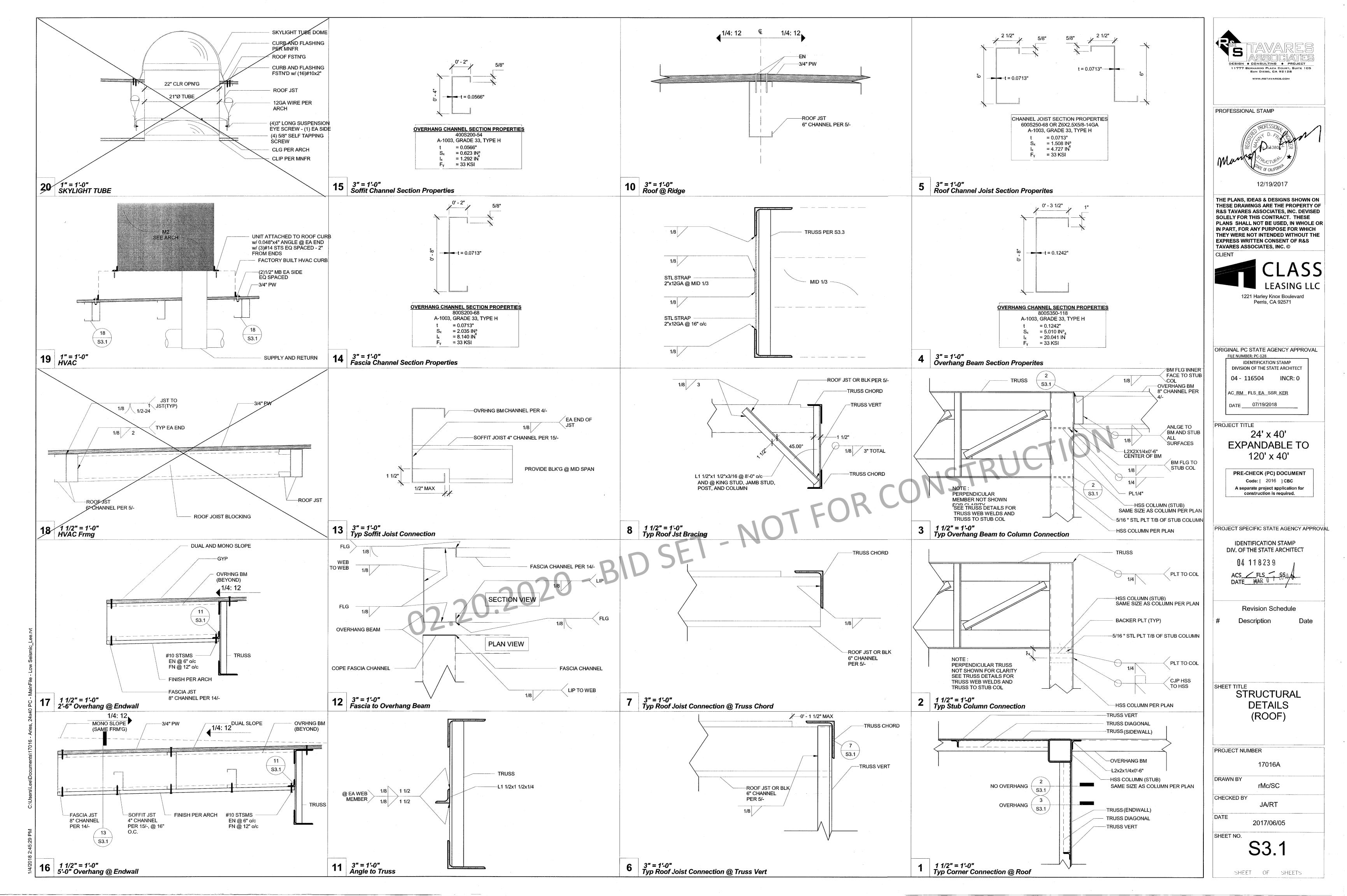
CHECKED BY JA/RT

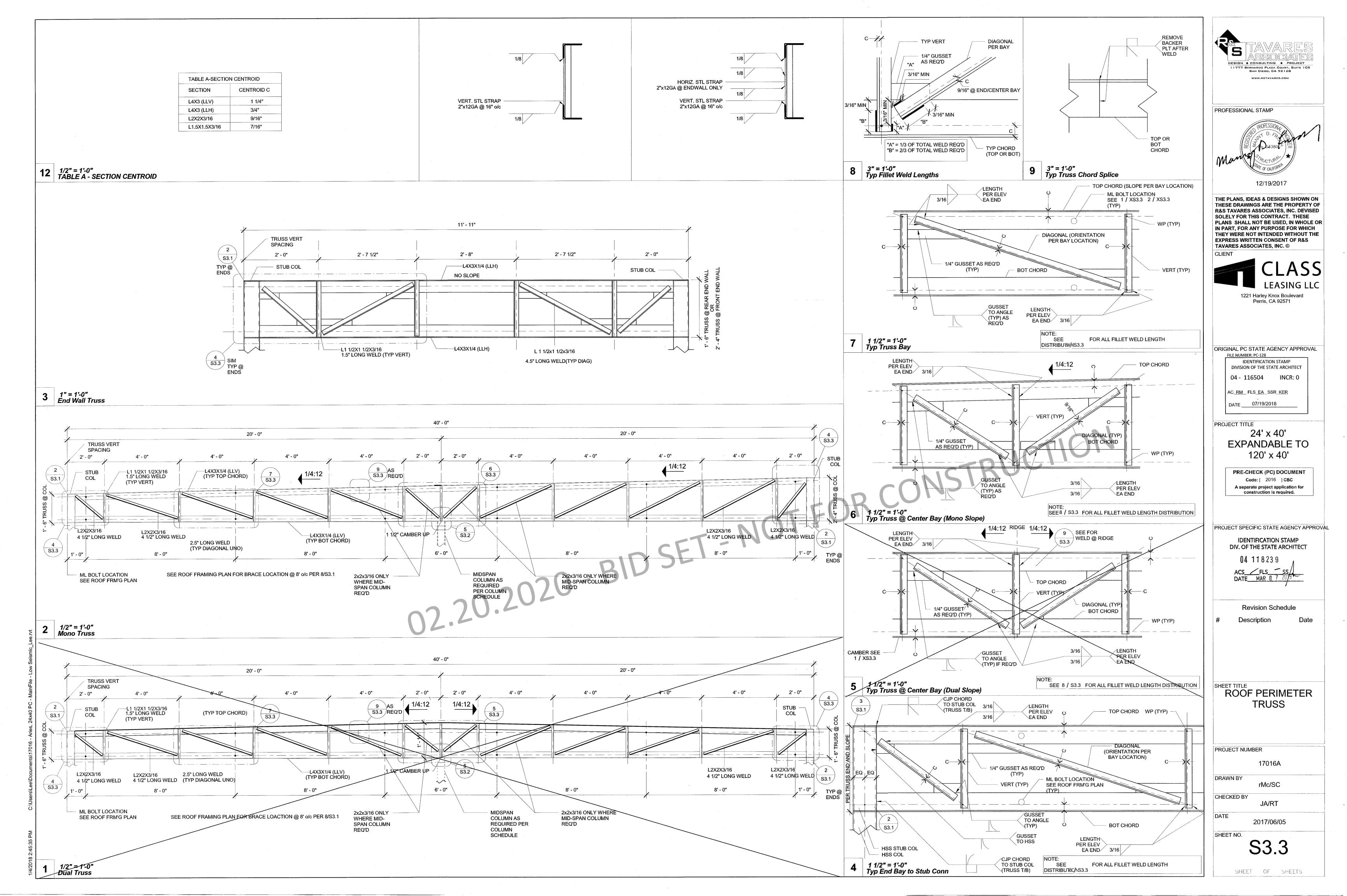
DATE 2017/06/05

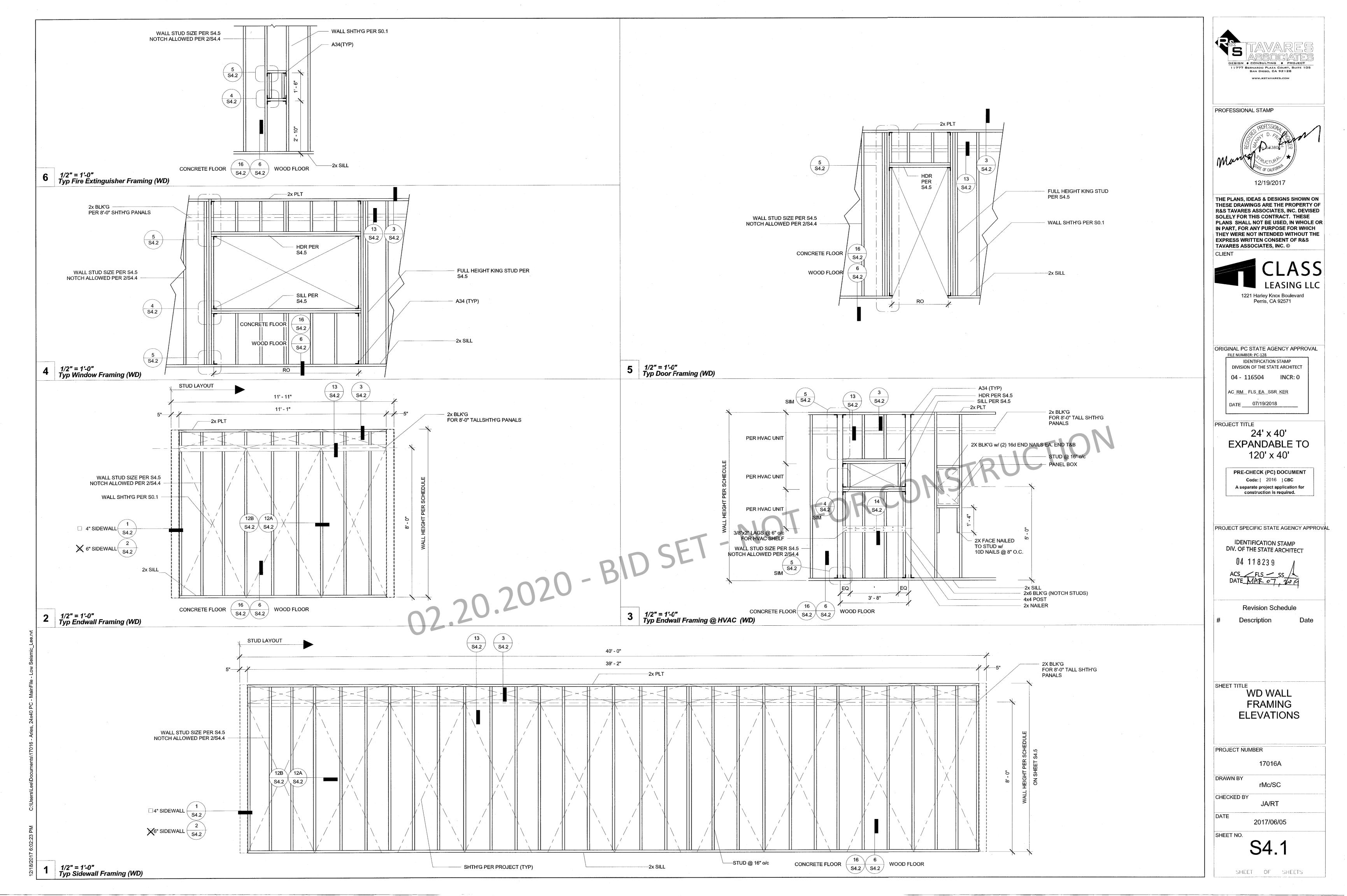
SHEET NO. S3.0.1

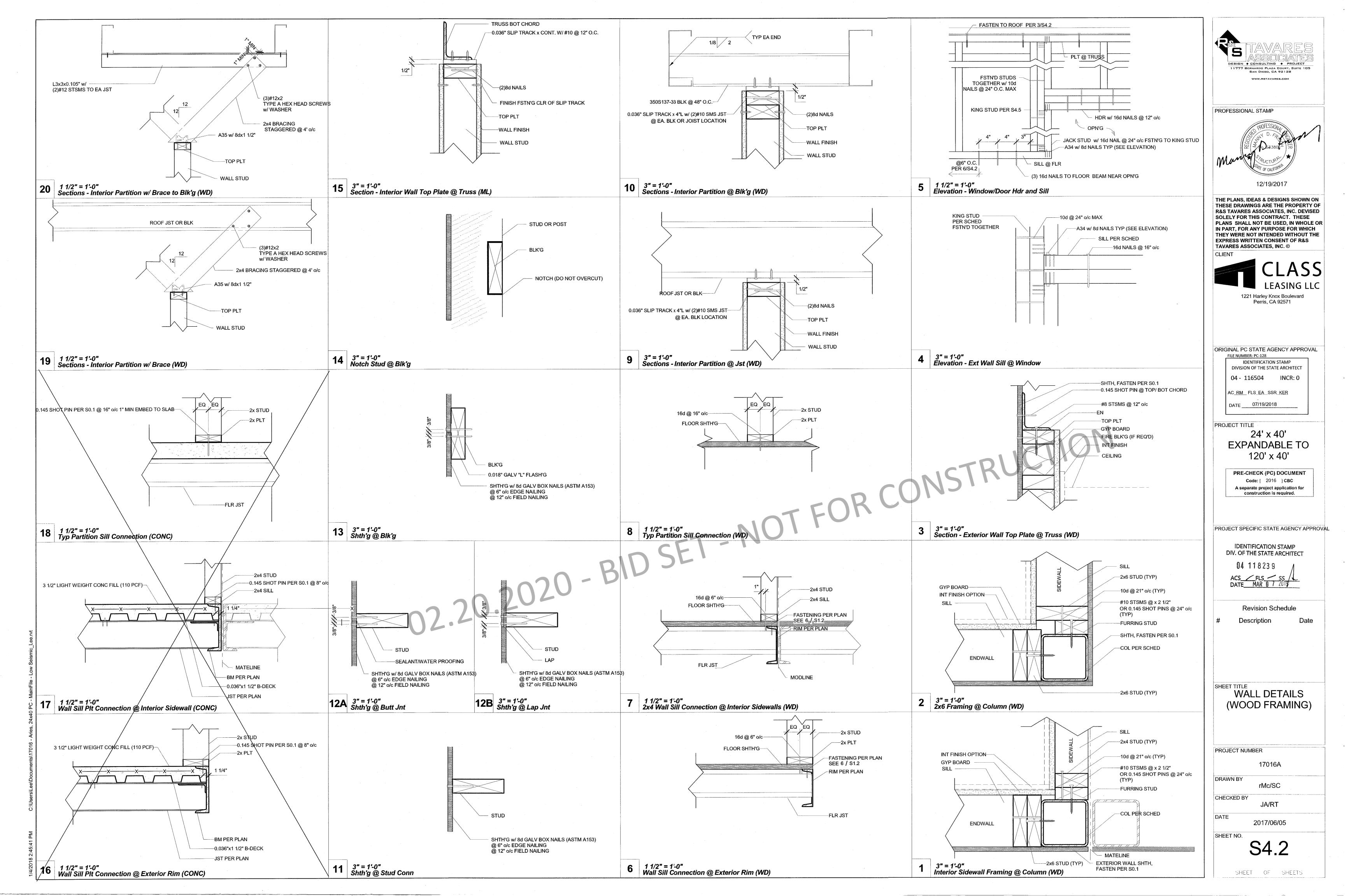
SHEET OF SHEETS

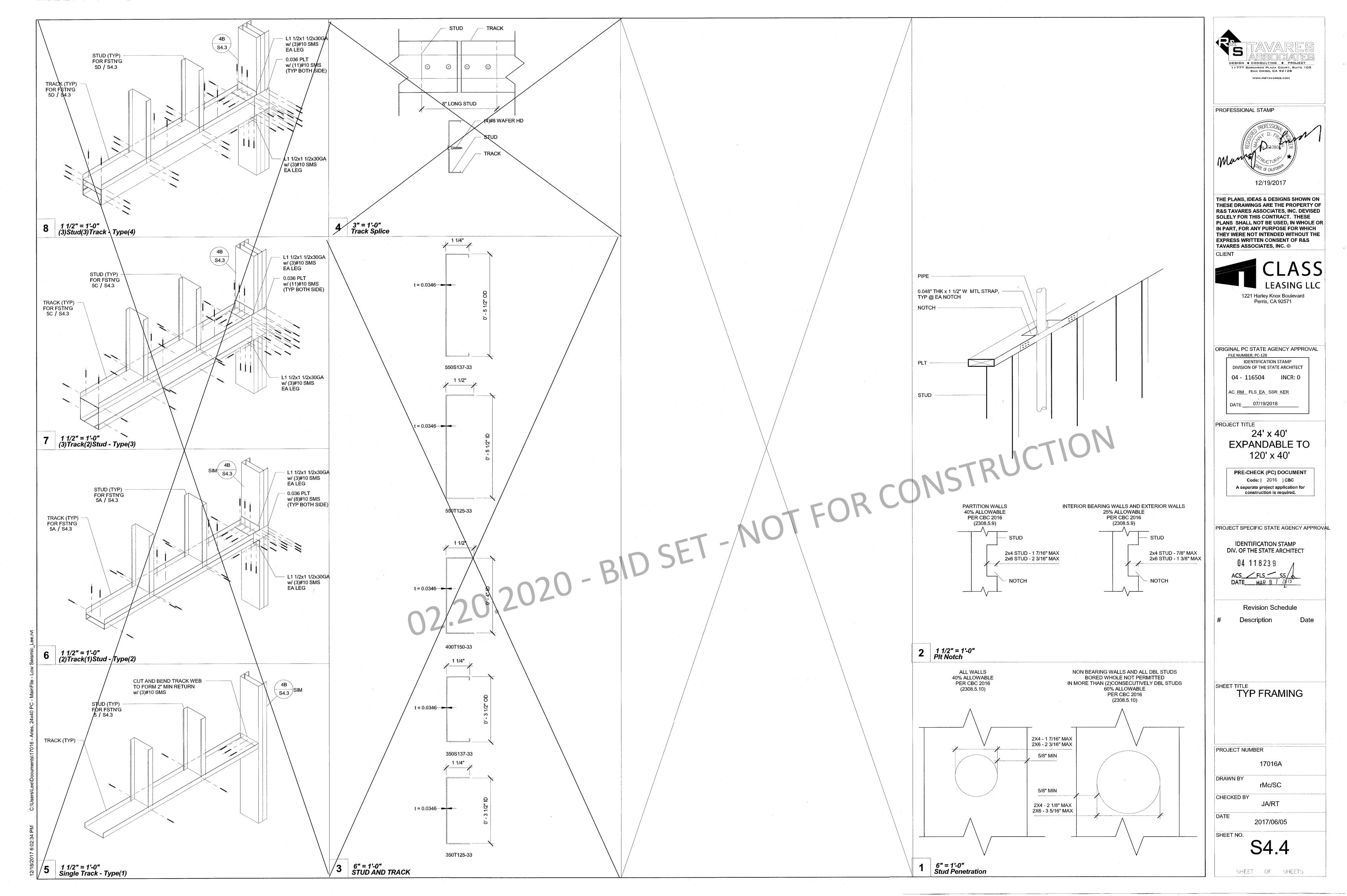
1/4" = 1'-0" Mono Roof Framing Plan











			2	2x4 Interio	r Wall Openi	ng Schedule						
COL HEIGHT	OPN'G SIZE		HDR			SILL		FULL HEIGHT KING STUD				
		Lumber	Number	Туре	Lumber	Number	Type	Lumber	Number	Туре		
9FT	3070	HF	1	#2	-	-	_	HF	2	#2		
		DF	1	#2	-	_	-	DF	2	#2		
	4070	HF	1	#2	-	-	-	HF	2	#2		
		DF	1	#2	_	-	_	DF	2	#2		
	6040	HF	2	#2	DF	2	#2	HF	2	#2		
		DF	2	#2	DF	2	#2	DF	2	#2		
	8040	HF	3	#2	HF	3	#2	HF	2	#2		
		DF	3	#2	DF	3	#2	DF	2	#2		
10FT	3070	HF	1	#2	-	-	-	HF	2	#2		
		DF	1	#2		-	-	DF	2	#2		
	4070	HF	1	#2	-	-	-	HF	2	#2		
		DF	1	#2	-	-	-	DF	2	#2		
	6040	HF	2	#2	HF	2	#2	HF	2	#2		
		DF	2	#2	DF	2	#2	DF	2	#2		
	8040	HF	3	#2	HF	3	#2	HF	2	#2		
		DF	3	#2	DF.	3	#2	DF	2	#2		

		2x4 Interior	Wall Fram	ing Schedule							
COL HEIGHT		Typical L	ocation		4ft From Building Corner						
	Lumber	Number	Туре	Spacing	Lumber	Number	Туре	Spacing			
9	HF	1	#2	16" O.C.	-	-	-	_			
	DF	1	#2	16" O.C.	-	-	-	-			
10	HF	1	#2	16" O.C.	<u>-</u>	-	-	-			
	DF	1	#2	16" O.C.	-	-	_	-			

4 From Corner Stud

Spacing

Number

Typ Wall Framing

Number Type Spacing Lumber

Stud

Stud

16" o/c

16" o/c

Column Height

9'- 0"

Size

350S137-33

350S137-33

COL	OPN'G		HDR			FULL HEIGHT KING STUD						
HEIGHT	SIZE					I						
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Тур		
9FT	3070	HF	1 1	#2	HF	1	#2	HF	1 1	#2		
		DF	1	#2	DF	1	#2	DF	1	#2		
	4070	HF	1	#2	HF	1	#2	HF	1	#2		
		DF	1	#2	DF	1	#2	DF	1	#2		
	6040	HF	1	#2	HF	1	#2	HF	1	#2		
		DF	1	#2	DF	1	#2	DF	1	#2		
	8040	HF	2	#2	HF	1	#2	HF	2	#2		
		DF	2	#2	DF	1	#2	DF	2	#2		
10FT	3070	HF	1	#2	HF	1	#2	HF	1	#2		
		DF	1	#2	DF	1	#2	DF	1	#2		
	4070	HF	1	#2	HF	1	#2	HF	1	#2		
		DF	1	#2	DF	1	#2	DF	1	#2		
	6040	HF	2	#2	HF	1	#2	HF	2	#2		
		DF	2	#2	DF	1	#2	DF	2	#2		
	8040	HF	3	#2	HF	1	#2	HF	2	#2		
		DF	3	#2	DF	1	#2	DF	2	#2		

	2x6 Exte	erior Wall Fra	ming Sche	dule (SHTH'	FINISH)					
COL HEIGHT	·	Typical L	ocation	4.8ft From Building Corner						
	Lumber	Number	Туре	Spacing	Lumber	Number	Туре	Spacing		
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.		
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.		
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.		
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.		

NOTE: SEE DETAIL 1 ON SHEETS A2.1 - A2.8

				Wall Op	ening Sched		THUSH)	·						
COL HEIGHT	OPN'G SIZE		HDR			SILL		FULL HEIGHT KING STUD						
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Туре				
9FT	3070	HF	1	#2	HF	1	#2	HF	1	#2				
		DF	1	#2	DF	1	#2	DF	1	#2				
	4070	ΉF	1	#2	HF	1	#2	HF	1	#2				
		DF	1	#2	DF	1	#2	ØF	1	#2				
	6040	HF	2	#2	HF	1	#2	HF	2	#2				
		DF	2	#2	DF	1	#2/	DF	1	#2				
	8040	HF	3	#2	HF	1	#2	HF	2	#2				
		DF	3	#2	DF	1 /	#2	DF	2	#2				
10FT	3070	HF	1	#2	HF	1	#2	HF	2	#2				
		DF	1	#2	DF	1	#2	DF	1	#2				
	4070	HF	1	#2	HE	1	#2	HF	2	#2				
		DF	1	#2	DF	1	#2	DF	1	#2				
	6040	HF	2	#2 /	HF	1	#2	HF	2	#2				
		DF	2	#2	DF	1	#2	DF	2	#2				
	8040	HF	3	#2	HF	1	#2	HF	2	#2				
		DF	3 /	#2	DF	1	#2	DF	2	#2				

	2x6 Exte	rior Wall Fra	ming Sche	dule (PLASTE	R FINISH)		<u> </u>				
COL HEIGHT		Typical L	ocation	, , , , , , , , , , , , , , , , , , , ,	4.8ft From Building Corner						
	Lumber	Number	Туре	Spacing	Lumber	Number	Type	Spacing			
Ø	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.			
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.			
10	HF	1	#2	16" O.C.	HF	1	#2	16" Q.C.			
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.			

Typ Wall Framing

Number Type Spacing Lumber

Stud

Stud

16" o/c 550S137-33

16" o/c 550S137-33

				·				7 5				011 N			-		7 550	Tatarian V	Vall Openin	Schodulo (DI ASTED	EINCILL) Stuc	= 550S137-33Track = 55	50T125.33		
Col Ht	Interior V Opn'g Size		ing ScheduleStud HDR Reference	ls = 350S137-33Tra	SILL Reference	FULL Type	HEIGHT KING STUD	Col Ht	Opn'g Size		Schedule (SHTH'G FINS HDR Reference		SILL = 55	1	HEIGHT Num.	KING STUD	Col Ht	Opn'g Size	Type	HDR	Type	SILL SILL			IT KING STUD
	3070	Type 1	Kelerence 5	N/A	N/A	Stud	(2) 350S137-33		3070	1,750	5	N/A	N/A	Stud	(2)	550S137-33		3070	C	5	N/A	N/A	Stud	(2)	550S137-33
	4070	1	5	N/A	N/A	Stud	(2) 350S137-33		4070	1	5	N/A	N/A	Stud	(2)	550\$137-33	9'- 0"	4070	1	5	N/A	N/A	Stud	(2)	550S137-33
9'- 0	6040	2	6	2	6	Stud	(3) 350S137-33	9'-	6040	2	6	3	6	Stud	(3	550S137-33	9-0	6040	2	6	2	6	Stud	(3	550S137-33
	8040	3	8	3	8	Stud	(3) 350S137-33		8040	3		3	6	Stud	(3)	550S137-33		8040	3	6	3	6	Stud	(3	550S137-33
	3070	1	5	N/A	NA	Stud	(2) 350S137-33		3070	1	5	N/A	NYA	Stud	(2)	550S137-33		3070	1	5	N/A	NYA	Stud	(2)	550S137-33
10'- 0	4070	2	5	N/A	N/A	Stud	(2) 350S137-33	10'-	4070	2	5	N/A	N/A	Stud	(2)	550S137-33	10'- 0"	4070	2	5	N/A	N/A	Stud	(2)	550S137-33
10'- 0	6040	1	6	2	6	Stud	(3) 350S137-33	. 10-	6040	2	6	2	6	Stud	(3)	550S137-33		6040	3/	6	2	6	Stud	(3,	550S137-33
	8040	4	8	4	8	Stud	(4) 350S137-33		8040	4	6	4	6	Stud	(4)	550S137-33		8040	4	6	4	6	Stud	(4)	550S137-33
				350 Interior Wall Fram	ming Schedule						☐ 550 Exte	erior Wall Framing	g Schedule (SHTH'G FI	NISH)						□ 550 E	xterior Wall Fra	ming Schedule (PLASTER	FINISH)		

Typ Wall Framing

Number Type Spacing Lumber

Stud 16" o/c 550S137-33

16" o/c 550S137-33

Column Height

9'- 0"

550S137-33

550S137-33



PROFESSIONAL STAMP



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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

identification stamp division of the state architect 04 - 116504 INCR: 0

FILE NUMBER: PC-128

AC RM FLS EA SSR KER

DATE ______07/19/2018

PROJECT TITLE

24' x 40' EXPANDABLE TO 120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239

ACS____FLS___SS___
DATE___MAR_ 0 -7 - 2819

Revision Schedule

Description Date

FRAMING SCHEDULES

PROJECT NUMBER
17016A

DRAWN BY
rMc/SC
CHECKED BY
JA/RT

DATE 2017/06/05

SHEET NO.

4 From Corner Stud

Type

Stud

Number

Spacing

16" o/c

S4.5

SHEET OF SHEETS

Spacing

Column Height

9'- 0"

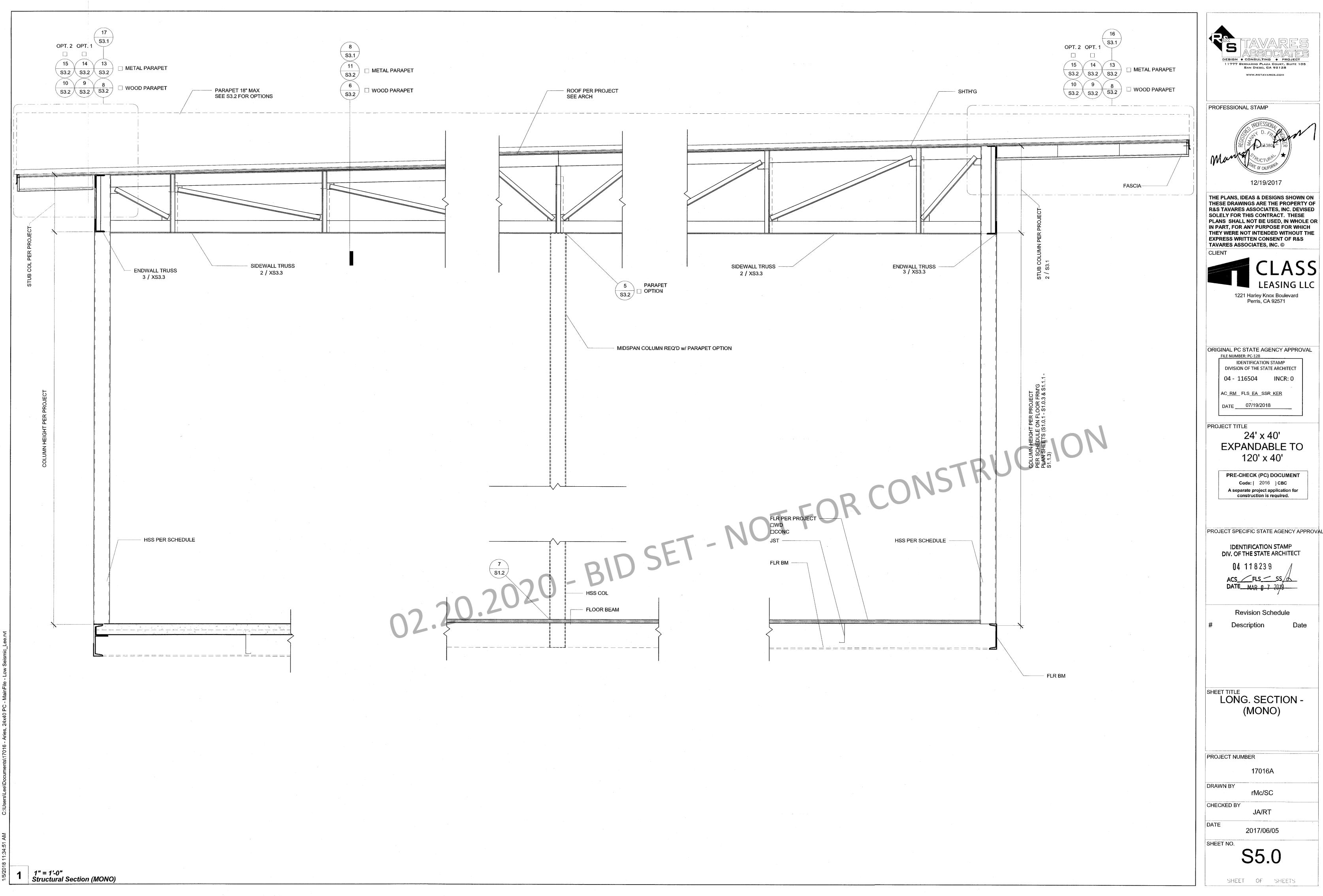
550S137-33

550S137-33

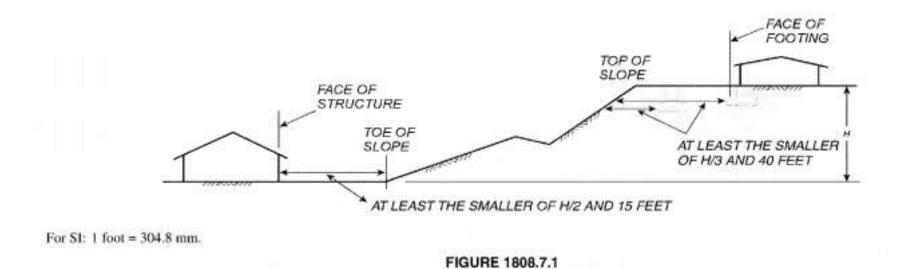
4 From Corner Stud

Stud

Number



NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40



FOUNDATION CLEARANCES FROM SLOPES

3 | 1/4" = 1'-0" | FOUNDATION SETBACKS

KEY PLAN VENTING SCHEDULE <u>VENT "A1" (SIDEWALL):</u> 3'-6" x 6" = <u>1.75 S.F. VENTILATION</u>

<u>VENT "B" (ENDWALL):</u> $3'-0" \times 3" = 0.75 \text{ S.F. VENTILATION}$

9 1/4" = 1-0" KEY PLAN VENTING SCHEDULE FOR \$0+15 PSF

WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 AND UNDER.

SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY REQUIREMENT.

VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF EQUAL SIZE AT RAMP SKIRTING.

TO PREVENT SLIDING; A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMIUM OF 2'-0" FROM CORNERS

STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ CORROSION RESISTANT NAILS.

WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.

REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE.

8. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION, I.E., CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN.

1/4" = 1'-0" NOTES FOR 50+15

(2) 16d NAILS SILL TO BASE CONNECTION FOR 50+15 SEE 7 / F1.10 SIDEWALL SEPERATION 12" O.C 12" O.C 12" O.C 12" O.C

"BOX" NAIL FOR SILL PLATE FASTENING

6 | 1/4" = 1'-0" NAILING SCHEDULE FOR 50+15

_ \	OOD FOUN	NDATION PLAT	E SCHEDULE						
50	0 + 15 PSF								
	PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPERATIO N	SEPERATIO N
	BOOSTER	2x4	2x4	2x6	2x6	2x8	2x8	ENDS 2x4	INTERIOR 2x4
	TOP	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
	BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
	SILL	2x12	2x12	(6) 2x12, 24" LONG	(6) 2x12, 24" LONG	(8) 2x12, 24" LONG	(8) 2x12, 24" LONG	2x12	2x12

* MODLINE "B" - MODLINE W/ EXT. WALLS BACK-TO-BACK SEE F1.14

TIE PLATE SCHEDULE SIDE WALL **END WALL** 36x40 48x40

DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE 105 SAN DIEGO, CA 92128

PROFESSIONAL STAMP



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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 INCR: 0

AC<u>RM</u> FLS<u>EA</u>SSR<u>KER</u> DATE ____07/19/2018

FILE NUMBER: PC-128

PROJECT TITLE

24' x 40' **EXPANDABLE TO** 120' x 40'

PRE-CHECK (PC) DOCUMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

Revision Schedule

Description

WOOD **FOUNDATION NOTES SCHED** FOR BLDG W/ 50+15

PROJECT NUMBER

17016A

CHECKED BY

2017/06/05

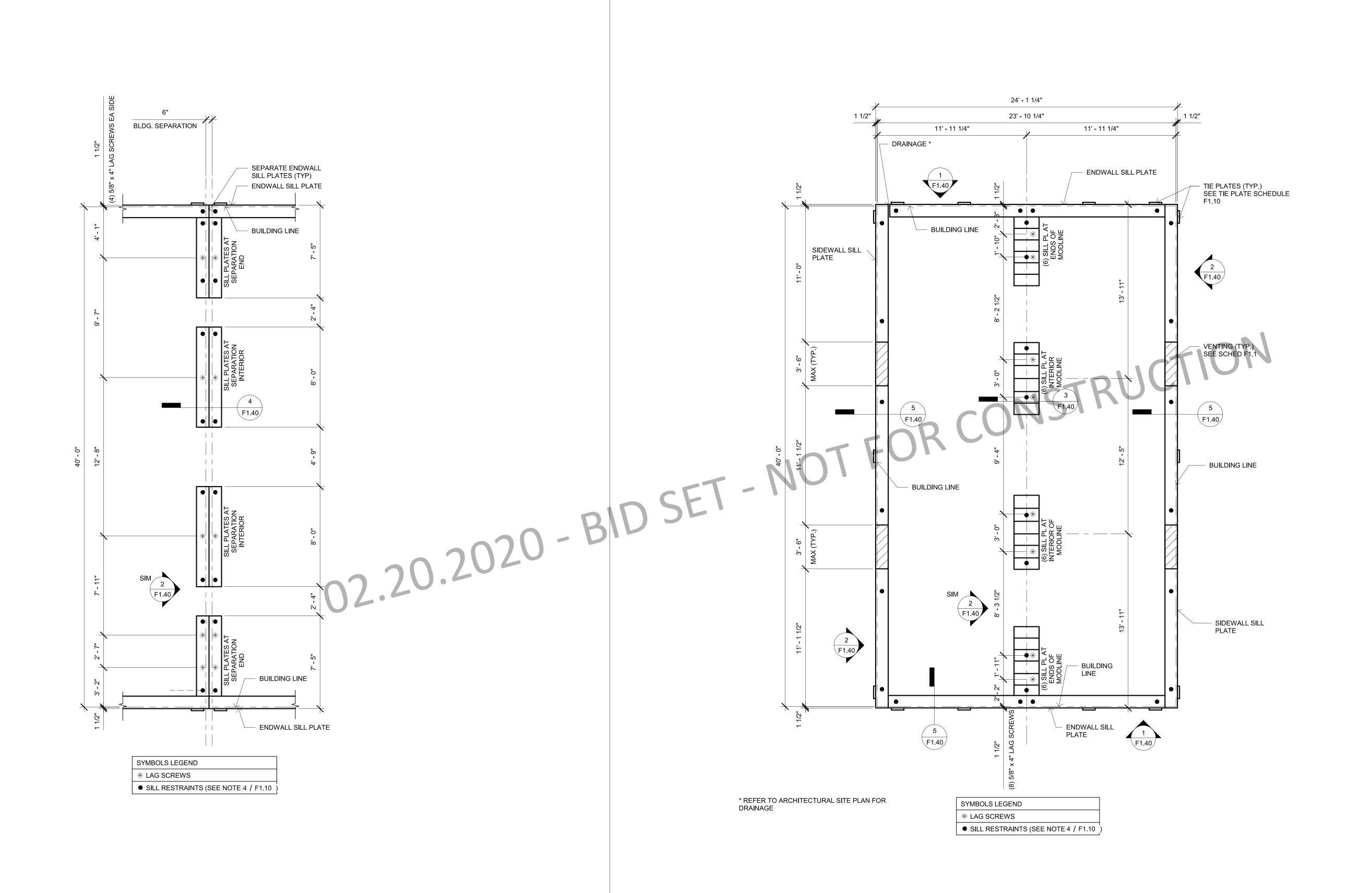
F1.10

SHEET OF SHEETS

8 1/4" = 1'-0" WOOD FOUNDATION PLATE SCHEDULE FOR 50+15

1/4" = 1'-0" TIE PLATE SCHEDULE FOR 50+15

1/16" = 1'-0" 50+15 VENTING LAYOUT





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ORIGINAL PC STATE AGENCY APPROVAL

_FILE NUMBER: PC-128

IDENTIFICATION STAMP

24' x 40' EXPANDABLE TO 120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

Revision Schedule

Description

WOOD
FOUNDATION
PLAN 24x40 BLDG
W/ 50+15

PROJECT NUMBER
17016A

RAWN BY rMc/SC

CHECKED BY

JA/RT

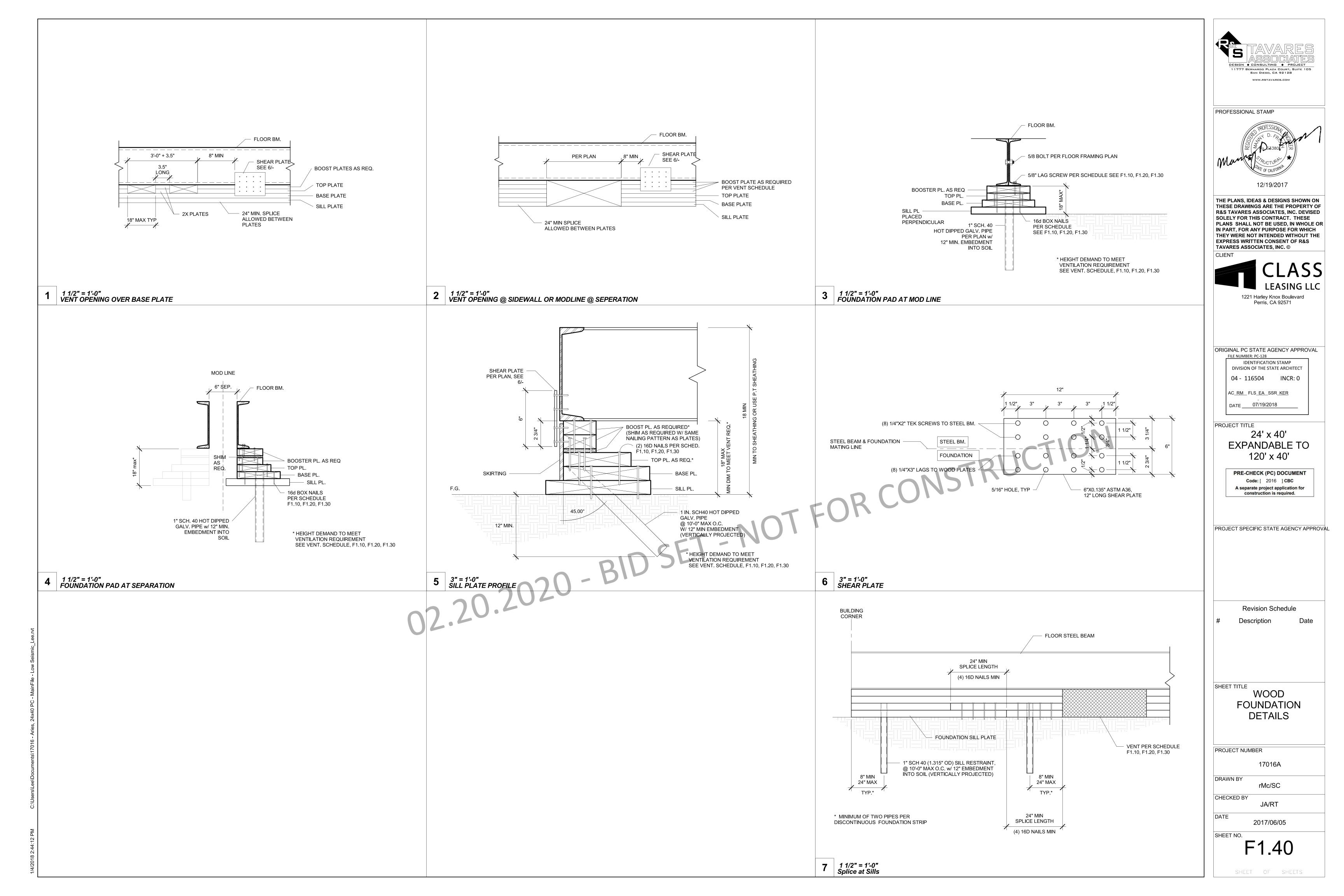
DATE 2017/06/05

F1.11

SHEET OF SHEETS

1/4" = 1'-0" FOOTING AT SEPARATION

2 1/4" = 1'-0" 24x40 FOUNDATION PLAN



PARTIAL LIST OF APPLICABLE CODES AS OF JULY 1, 2014

2013 ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TILTLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.

(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R 2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R. 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. 2007 ASME A17.1 (W/ A17.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

*CALIFORNIA ADMINISTRATIVE CODE, PART1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

GENERAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT(CCD) BY DSA AS REQUIRED BY SECTION 4-338 PART1, TITLE 24, CCR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT(OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. DUTIES OF INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1 TITLE 24, CCR

COMPLETE ACCESS IS A DIVISION OF INTEGRATED STAIR SYSTEMS INC. WITH CORPORATE OFFICES LOCATED IN 1345 RYAN RD, BUCKLEY, WA 98321, (360)

100 PSF (4.8 kPa)

DESIGN LOADS

LIVE LOAD: HANDRAIL IMPACT:

200 LBS (0.9 kN) HANDRAIL DIST. LOAD: 50 PLF (0.7 kN/m) SESIMIC: Ss= 1.875g, S1= 0.675, R= 1.25, SITE CLASS

SOIL ALLOWABLE BEARING: 1,000 PSF (4.8 kPa)

LATERAL RESISTING SYST: OTHER STRUCTURES SIMILAR TO BUILDINGS 130 MPH, 3 SEC GUST EXPOSURE "C", Kzt= 1.0 SEIS IMPORTANCE FACTOR: le= 1.25, lw= 1.0 SNOW LOAD: 0 PSF (0 kPa)

MATERIALS

SQUARE STEEL TUBE ASTM A513 GR. C Fy= 33 KSI (345 RAMP OVERHANG POST ASTM A500 B Fy= 46 KSI

*ALL STEEL TO BE COATED WITH GALVANIZED RUST INHIBITING COATING

WOOD FOUNDATION SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESSURE TREATED HEM-FIR #2 AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT.

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL AND AWS D1.2 AND A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

BOLTS, SCREWS AND NAILS

STEEL TO STEEL CONNECTIONS: ASTM A307 CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3. FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING. ALL STEEL MEMBERS IN CONTACT WITH ALUMINIUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION.

STEEL TO STEEL & WOOD CONNECTIONS: ANSI/ASME STEEL LAG SCREWS, STEEL STANDARD WOOD SCREWS, WOOD TO WOOD CONNECTION: ASTM STANDARD COMMOM STEEL NAIL.

ITW RED HEAD CONCRETE WEDGE ANCHORS SHALL BE INSTALLED PER RECOMMENDATION SHOWN IN ESR-2427

HANDRAIL NOTES:

MANEUVERING CLEARANCE ON EXTERIOR PULL SIDE OF DOOR SHALL BE 24" (610MM) MINIMUM WITH 60" (1524MM) MINIMUM LANDING IN FRONT OF

HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" (301MM) ON TOP OF RISER AND 12" (301MM) PLUS 1 TREAD AT BOTTOM RISER AT RAMPS WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" (301MM) MINIMUM BEYOND TOP AND BOTTOM RAMPS

TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE, ONE CONSISTENT HEIGHT, BEIGINNING

CLEARANCE BETWEEN RAIL AND WALL SHALL BE A MINIMUM OF 1-1/2" (38MM).

GUARDS ARE TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200 LBF (0.9 kN) APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50 PLF (0.7 kN/m) APPLIED HORIZONTALLY @ HANDRAIL HEIGHT.

HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1-1/4" (31.75MM) MINIMUM AND NOT GREATER THAN 2"

8) GRIPPING SURFACE SHALL BE UNINTERRUPTED BY POSTS OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.

HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.

ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR

RAMP NOTES

RAMPS SHALL CONFORM TO CBC 2016 TITLE 24 PART 2, CHAPTER 11B, 11B-405

RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8% SLOPE) FOR A MAXIMUM RISE OF 30" (762MM)

THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (762MM)

4) RAMPS SHALL HAVE LANDING AT BOTTOM AND TOP OF EACH RAMP RUN

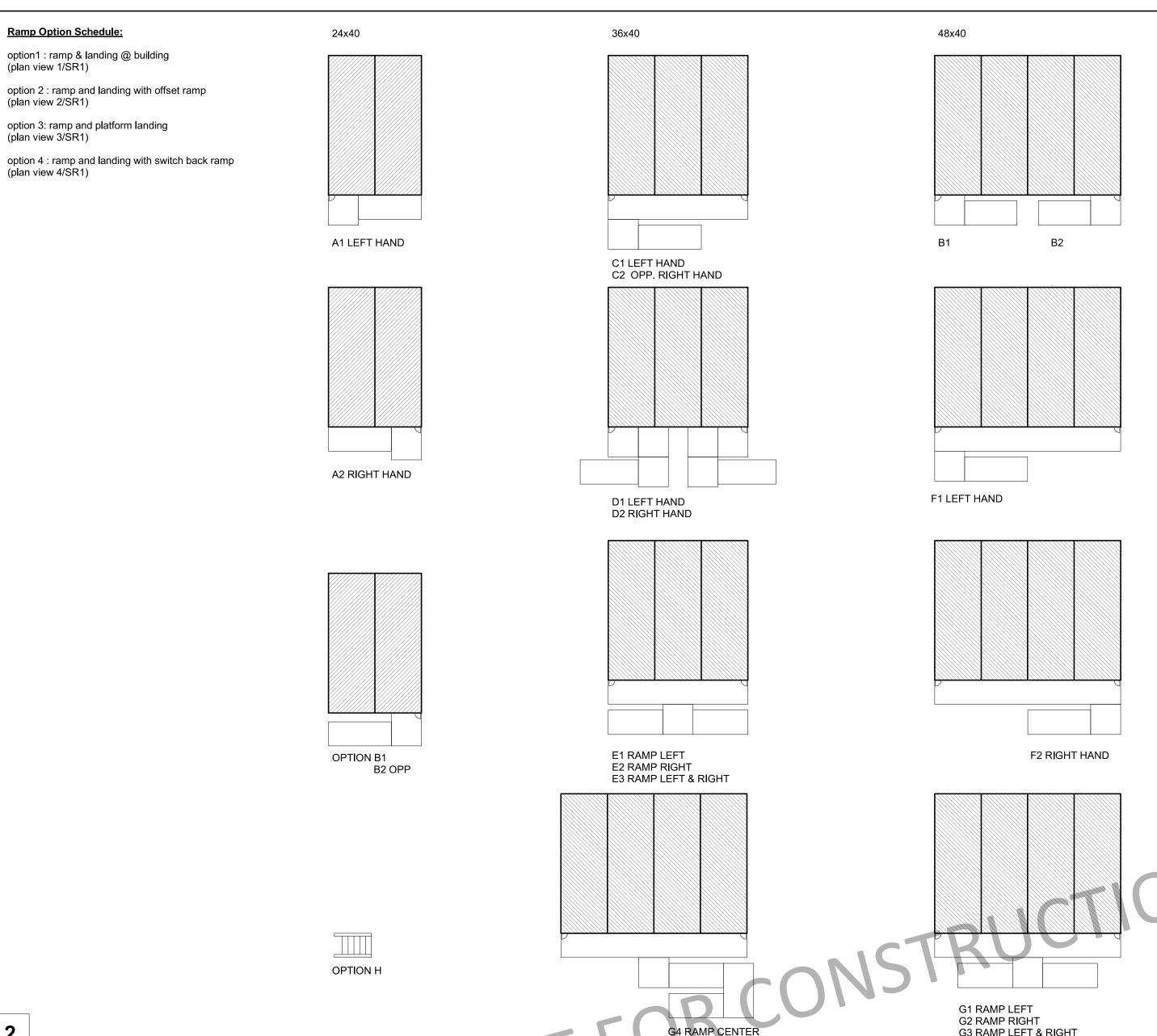
5) THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION

6) LANDING SHALL HAVE A WIDTH AT LEAST AS WIDE AS THE WIDES RAMP RUN LEADING TO THE LANDING AND A MINIMUM LENGTH OF 60" IN THE DIRECTION OF TRAVEL @ TOP LANDING - 72" MIN @ BOT LANDING

7) CHANGES IN DIRECTION OF TRAVEL SHALL HAVE A LANDING 60" WIDE BY 72" LONG (1524MM x 1829MM) MINIMUM, WITH WITH THE LENGTH BEING IN THE DIRCTION OF DOWNWARD TRAVEL AND CHANGES IN DIRECTION

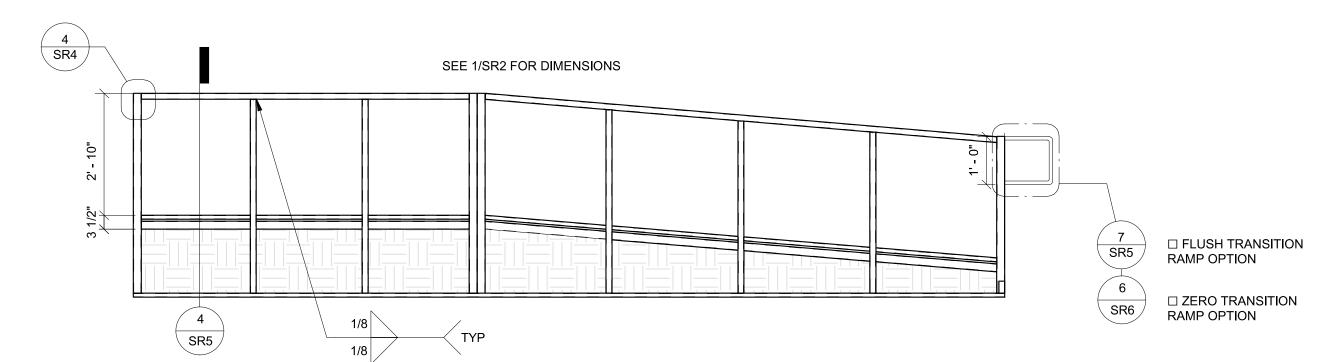
8) MANEUVERING CLEARANCE ON LANDING ADJACENT TO DOORWAYS SHALL BE NO LESS THAN 42" WITH DOOR IN ANY POSITION AND SHALL NOT BE REDUCED BY MORE THAN 3" WHEN DOOR IS FULLY OPENED

9) WALKING SURFACE SAHLL BE ROUGHED OR SHALL BE OF SLIP RESISTANT DIAMOND PLATE ALUMINUM AND ALL LANDINGS TO BE DESIGNED TO NOT RETAIN STANDING WATER - 2.083 MAX SLOPE ANY DIRECTION



2 Ramps Options w/ Different Building Sizes 02.20.2020 - BID SET - NO. 1' - 0" 1' - 0" HANDRAIL -LEVEL LEVEL SR1 3' - 6" 1:12 MAX SLOPE DN LEVEL LANDING SEE 1/SR1 FOR DIMENSIONS RAMP TRANSITION

3 | 1/2" = 1'-0" Standard Ramp



DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE

PROFESSIONAL STAMP



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ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0 AC<u>RM</u> FLS<u>EA</u>SSR<u>KER</u> DATE_ 07/19/2018

PROJECT TITLE RAMPS PC

> PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY

Revision Schedule Description

Module Plan and Notes

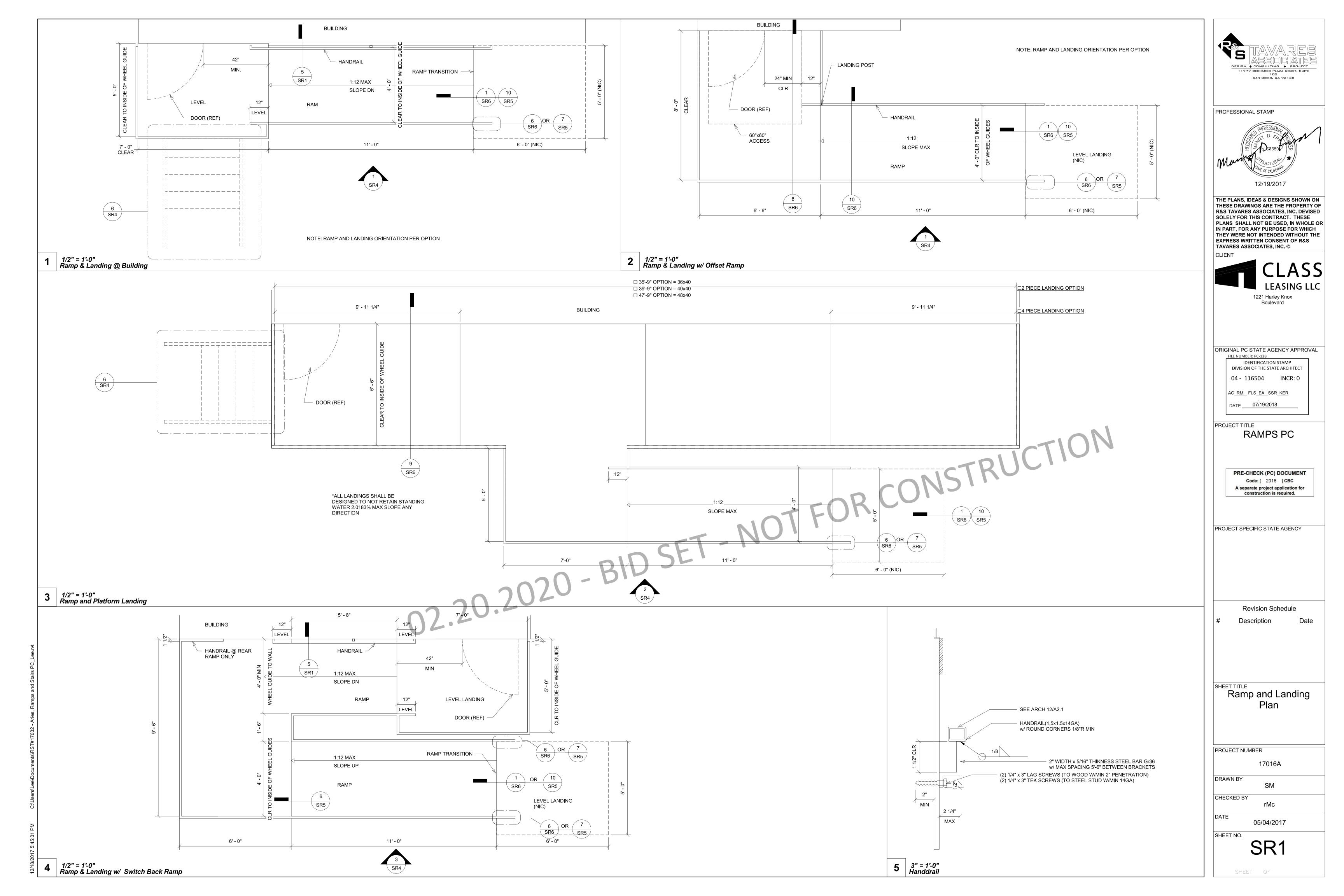
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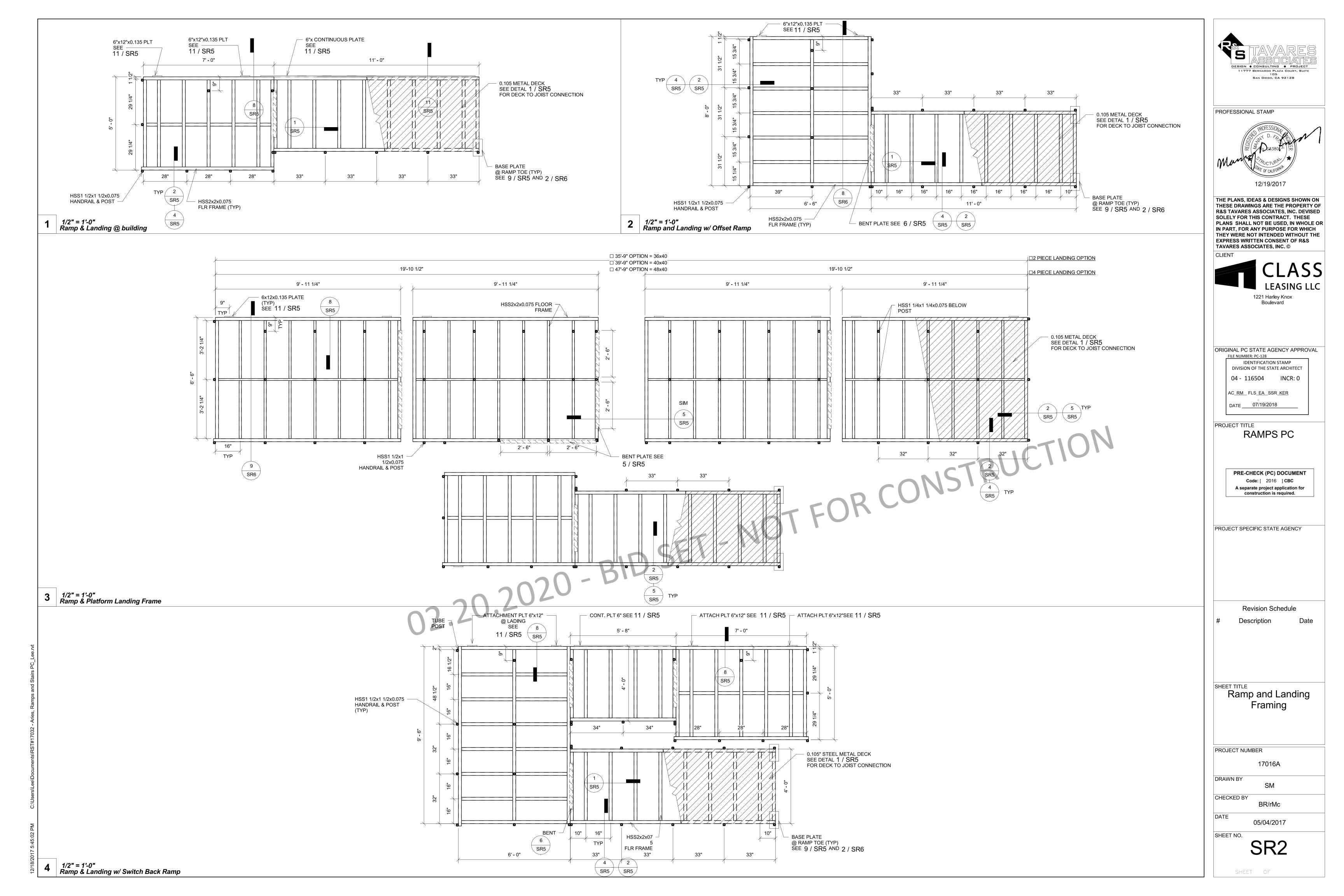
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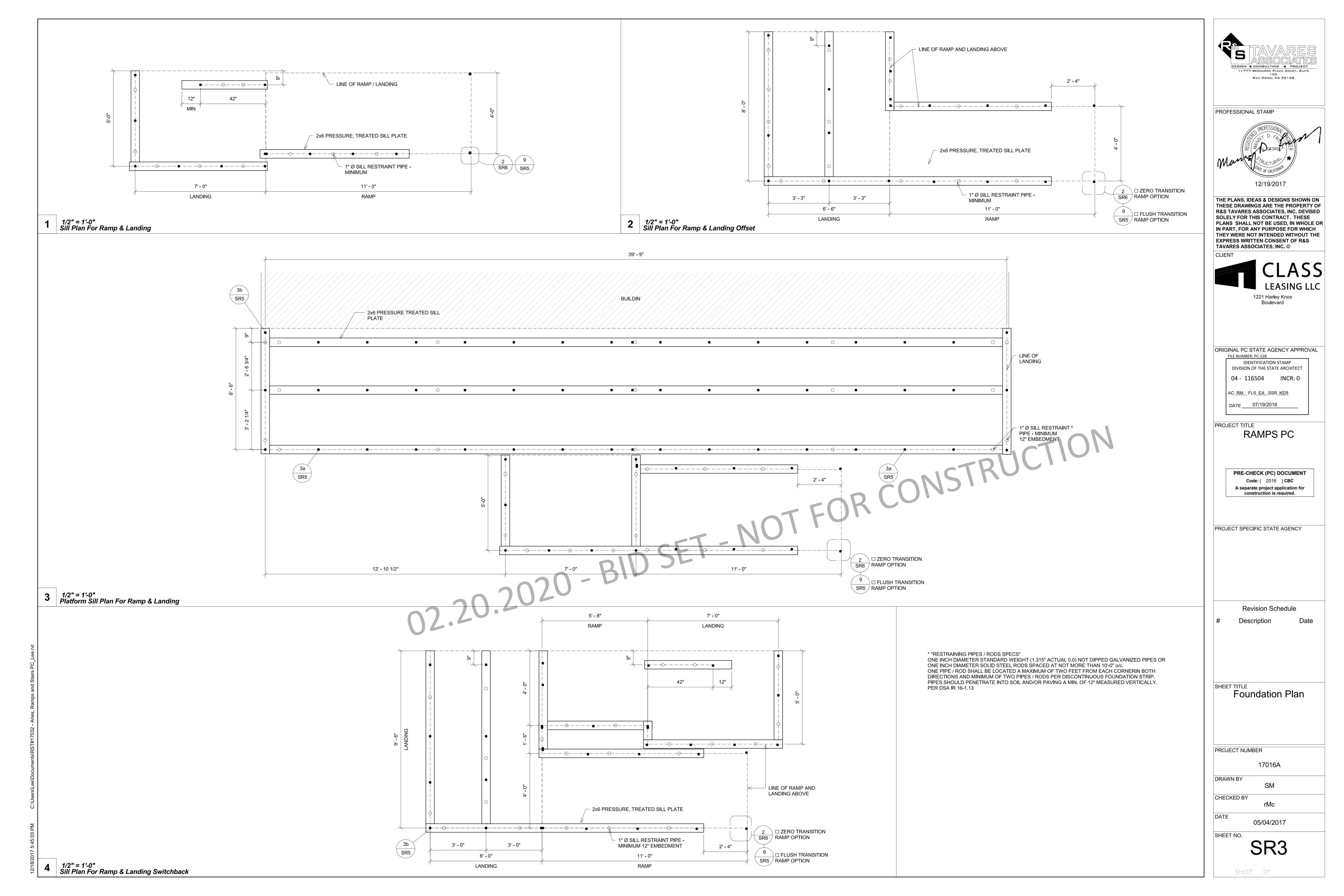
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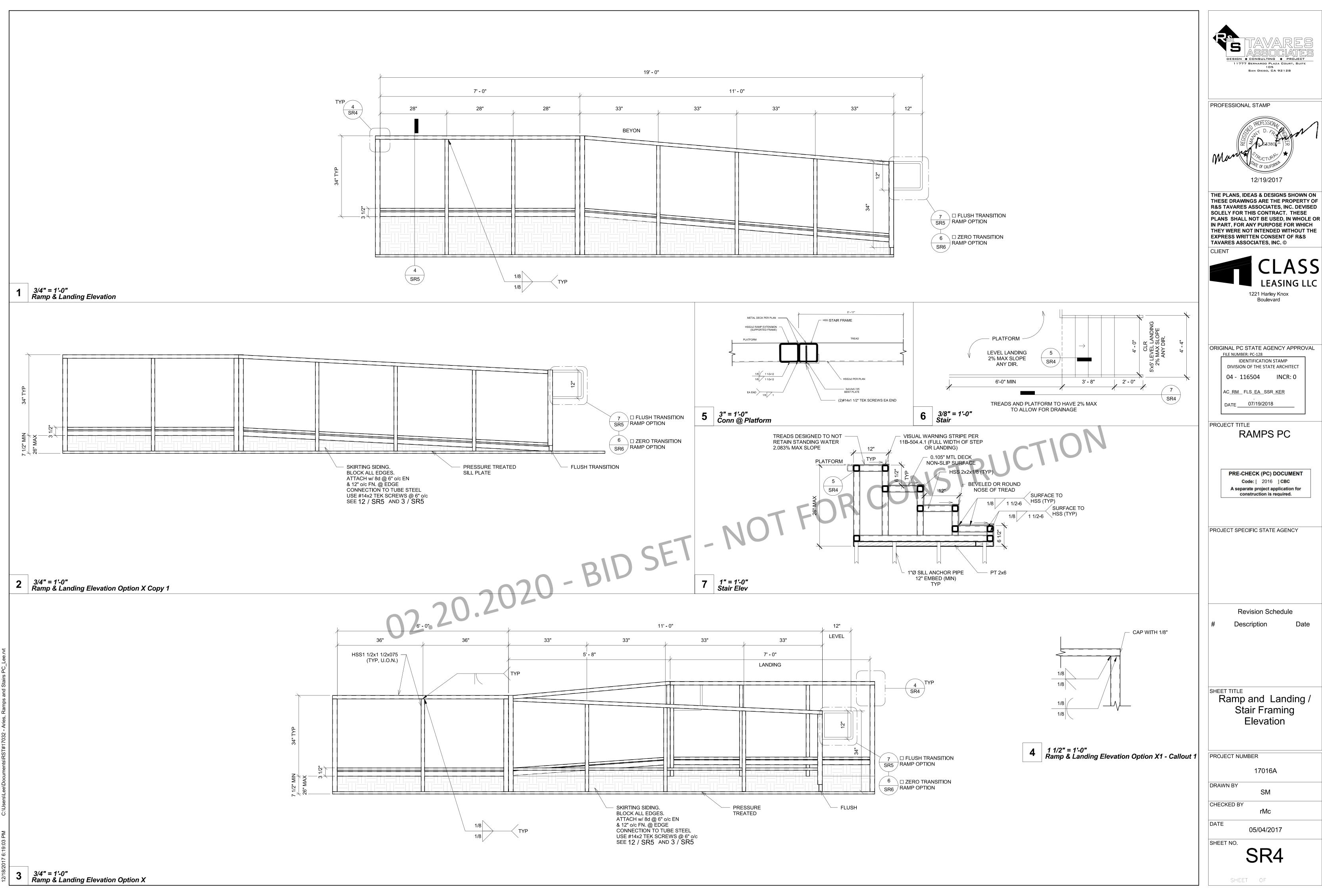
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SR0

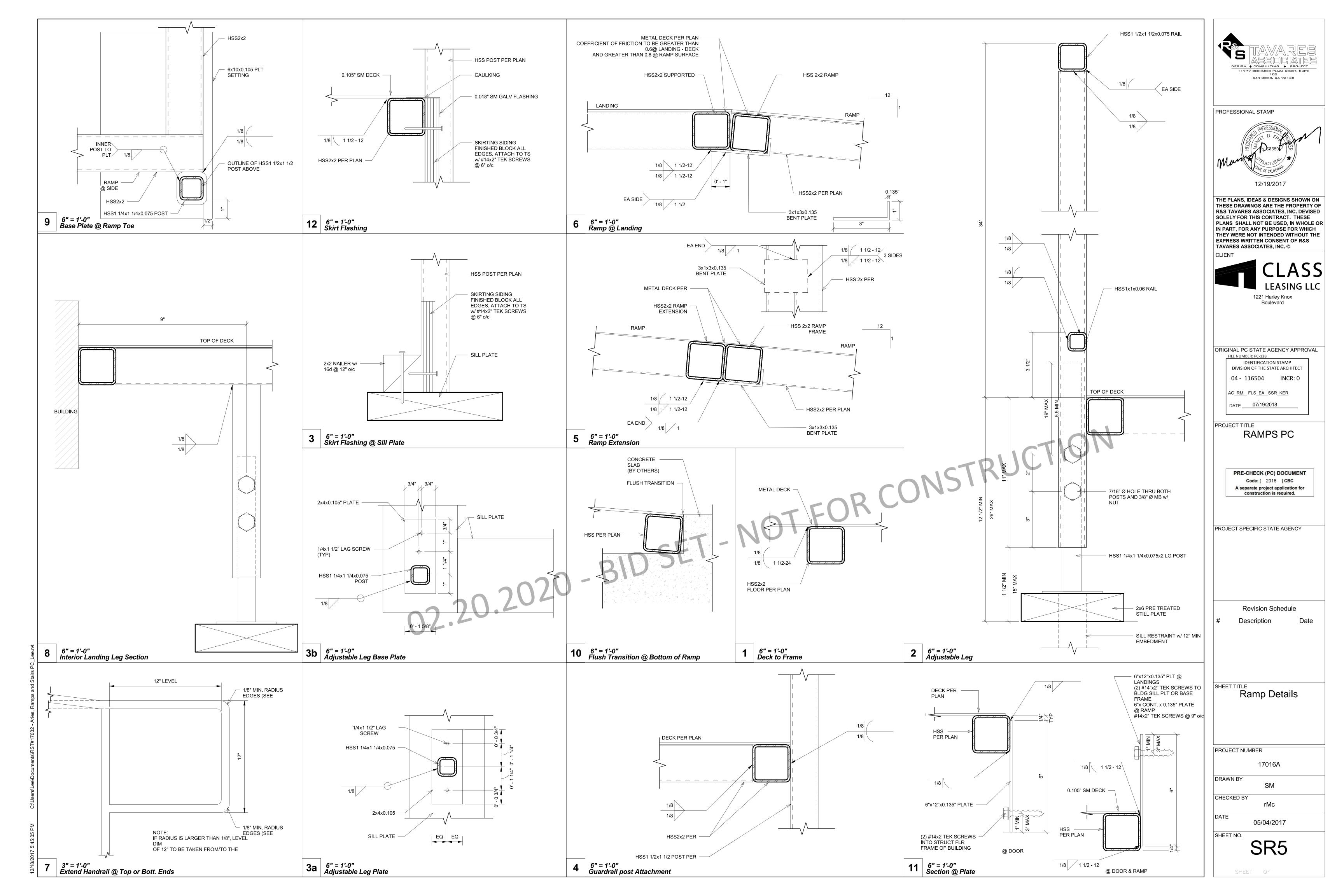


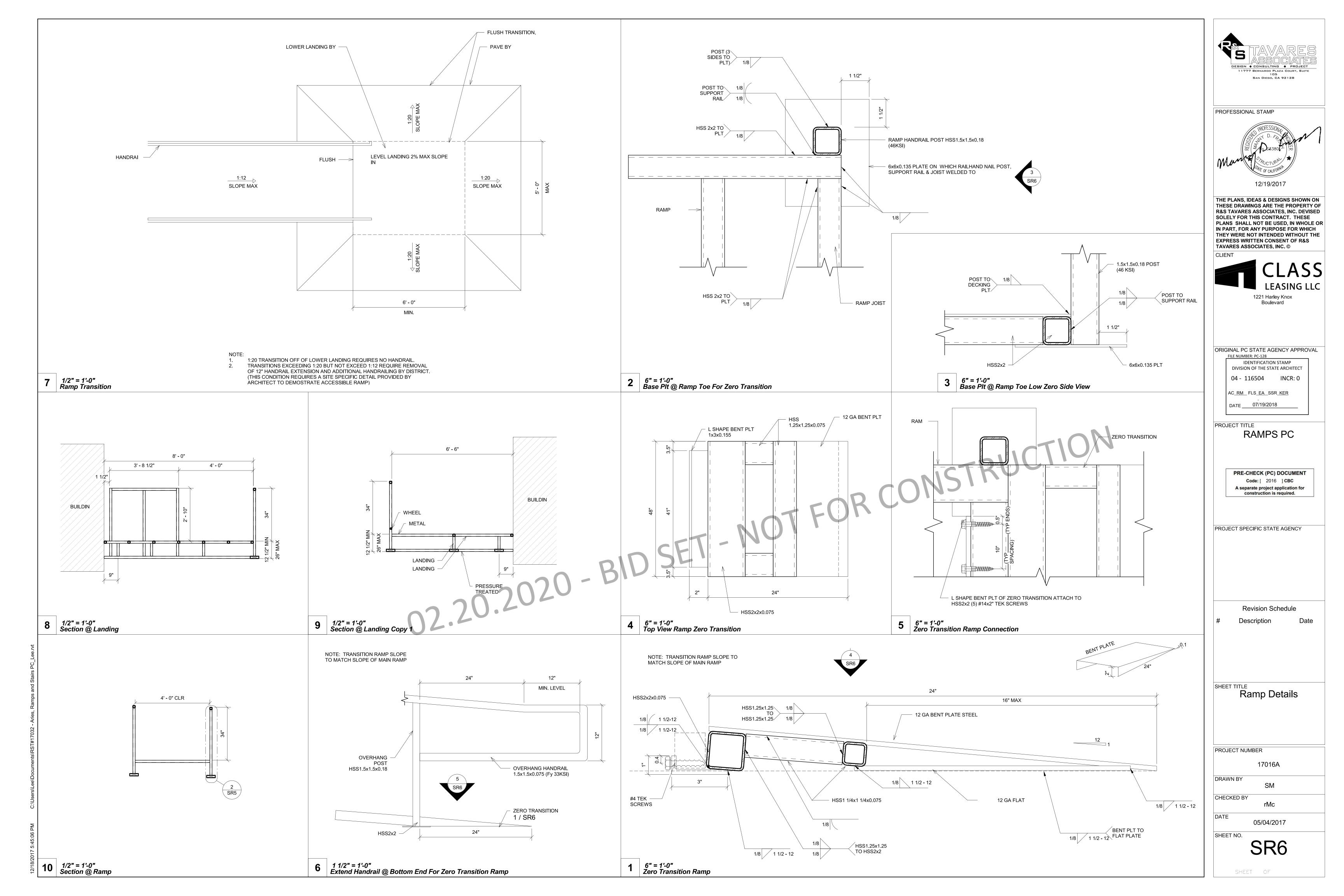


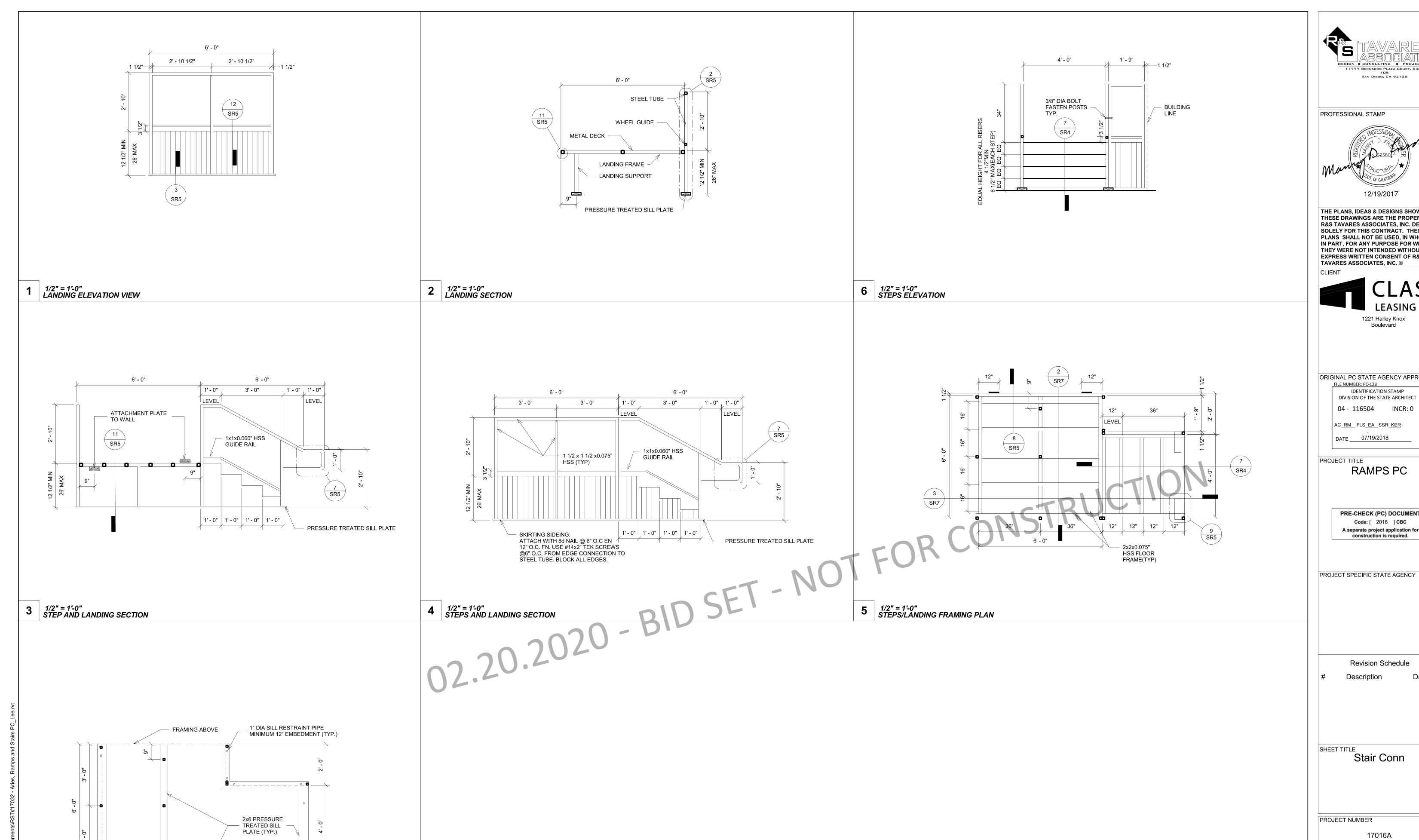












3' - 0"

6' - 0"

4' - 0"

3' - 0"

1/2" = 1'-0" SILL PLAN

105 SAN DIEGO, CA 92128

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ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP

> 04 - 116504 INCR: 0 AC<u>RM</u> FLS<u>EA</u>SSR<u>KER</u> DATE <u>07/19/</u>2018

PROJECT TITLE

RAMPS PC

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY

Revision Schedule

Description

Stair Conn

PROJECT NUMBER

17016A DRAWN BY

CHECKED BY

DATE 05/04/2017

SHEET OF

SR7