(6)24'x40'+(1)36'x40' MODULAR CLASSROOM BUILDINGS

AT HUENEME HIGH SCHOOL

Last Saved By: icarrillo — Feb 21, 2020 — 2:07pm

500 WEST BARD ROAD OXNARD, CA 93033

GENERAL NOTES	ABREVIATIONS	APPLICABLE CODES	STATEMENT OF GENERAL CONFORMANCE
PROPOSED CONSTRUCTION, PIPING, CONDUITS, CLEAN-OUTS, PULL BOXES, ETC. ANY CREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT AND ARCHITECT OR TO COMMENCING WORK. TREATORS SHALL USIST THE SITE AND VERIFY ALL GRADES ELEVATIONS, DIMENSIONS, AND DISTRICT OR TO COMMENCING WORK. THE CONTRACTOR DURING THE ABOVE INVESTIGATIONS SHALL BE REPORTED EIGHT THE CONTRACTOR DURING THE ABOVE INVESTIGATIONS SHALL BE REPORTED EIGHT THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL REPORTED THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL REPORTED THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL REPORTED THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL REPORTED THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL REPORTED THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL REPORTED THE CONTRACTOR SHALL BE COULD REPORT THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE SHIP SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE SHIP SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS AND AND SHE SHIP SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS AND AND SHE SHIP SOLE RESPONSIBLITY OF THE CONTRACTOR, AND HAS AND AND SHE SHIP SOLE AND SHIP SOLE AND SHIP SHIP SOLE AND SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	ABV above access LGT light PNL panel panel panel plate properly plaster plate	(2016 National Electrical Code of the National Fire Protection Association, NFPA) Part 4 2019 California Mechanical Code, Title 24 C.C.R. (2018 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO) Part 5 2019 California Plumbing Code, Title 24 C.C.R. (2018 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO) Part 6 2019 California Energy Code, Title 24 C.C.R. Part 8 2019 California Historical Building Code, Title 24 C.C.R. (2018 International Fire Code of the International Code Council) Part 10 2019 California Existing Building Code, Title 24 C.C.R. (2018 International Existing Building Code of the International Code Council, with amendments) Part 11 2019 California Green Building Standards Code (CAL Green Code), Title 24 C.C.R. Part 12 2019 California Referenced Standards Code, Title 24 C.C.R. Part 12 2019 California Green Building Standards Code, Title 24 C.C.R. Part 12 2019 California Green Building Standards Code, Title 24 C.C.R. Part 12 2019 California Green Building Standards Code, Title 24 C.C.R. Part 12 2019 California Referenced Standards Code, Title 24 C.C.R. Part 12 2019 California Green Building Standards Code, Title 24 C.C.R. Part 14 2019 California Referenced Standards Chapter 35 NFPA 13 Automatic Sprinkler Systems (California Amended) 2013 Edition NFPA 17 Wet Chemical Extinguishing Systems 2013 Edition NFPA 17 Wet Chemical Extinguishing Systems 2013 Edition NFPA 20 Standardy Pumps 2013 Edition NFPA 20 Standardy Pumps 2013 Edition NFPA 20 Private Fire Service Mains (California Amended) 2016 Edition NFPA 20 Private Fire Service Mains (California Amended) 2016 Edition NFPA 20 Private Fire Service Mains (California Amended) 2016 Edition NFPA 20 National Fire Alarm and Signaling Code (California Amended) 2016 Edition NFPA 20 National Fire Alarm and Signaling Code (California Amended) 2016 Edition NFPA 20 National Fire Alarm and Signaling Systems 2019 Edition NFPA 20 National Fire Alarm and Sig	THESE DRAWINGS AND / OR SPECIFICATIONS AND / OR CALCULATIONS FOR THE ITEMS DESIGNAL WITH A TEXT OF THE TEMS DESIGNAL TO THE STEEM SHOWN AND THE PROPERTY OF THE STEEM SHOWN AND THE PROVIDED BY THE STEEM SHOWN AND STOCKED BY THE STEEM SHOWN AND THE PROVIDED BY THE STEEM SHOWN INTERT AND APPEARS TO WEET THE SPENDEAUTE REQUIREMENT OF THE LAR CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND 2. CORDINATION WITH MY PLANS AND SECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT. THE STATEMENT OF GENERAL CONFORMANC "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 8138 OF THE EDUCATIC CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1, CITILE 24, PART 1, SECTION 4-3 AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1, CITILE 24, PART 1, SECTION 4-3 AD THE PROJECT SCOPE OF WORK CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: SCOPE OF WORK THE PROJECT SCOPE OF WORK CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: SET (6) 24"-40" MODULAR CLASSROOM BUILDINGS ON WOOD FOUNDATION FROM STOCKPILE A94-118238 AND SET (1) 35"/CAY MODULAR CLASSROOM BUILDINGS ON WOOD FOUNDATION FROM STOCKPILE A94-118238 AND SET (1) 35"/CAY MODULAR CLASSROOM BUILDINGS ON WOOD FOUNDATION FROM STOCKPILE A94-118238 AND SET (1) 35"/CAY MODULAR CLASSROOM BUILDINGS ON WOOD FOUNDATION FROM STOCKPILE A94-1183188 PROVIDE ELECTRICAL AND FIRE ALARM SYSTEM FOR ALL (7) NEW BUILDINGS PROVIDE CONCRETE WALKWAYS
RELOCATE STAGE IN VARIOUS AVAILABLE AREAS ON SITE AND MAY BE REQUIRED TO MOVE	KO knockout NIC not in contract LAB laboratory NTS not to scale LB lag bolt OC on center	BIDDING NOTES	VICINITY MAP
COMMODATE CONSTRUCTION AND SCHEDULE. CONTRACTOR SHALL FACTOR IN ALL CESSARY MEASURES TO ACCOMMODATE THE TIMELY COMPLETION OF THIS CONTRACT. NTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICE TO ACTIVE SCHOOL SITE WITHOUT PRESSED PERMISSION AND PRIOR SCHEDULING WITH DISTRICT. NTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CONTRACTOR SUBMITTALS OF CUMENTS TO THE DSA BOX. NTRACTOR MAY UTILIZE EXISTING ELECTRICAL SERVICE IN YARD FOR TEMPORARY POWER. TEMPORARY POWER INSTALLATION SHALL ADHERE TO APPLICABLE CODES. ENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, LITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA FREGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR MPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT ENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE ULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS ECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO PROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE REFERENCE: SECTION 4-317 (C), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24, CCR)	LAM laminate OPG opening LAV lavatory OPP opposite LH left hand OD outside diameter	PRE-BID JOB WALK: MANDATORY PRE-BID JOB WALK WILL BE HELD ON DATE AND TIME STATED IN "NOTICE TO CONTRACTOR" AT THE PROJECT SITE. ALL PROSPECTIVE BIDDERS ARE ADMONISH TO ATTEND. DISABLED VETERAN BUSINESS ENTERPRISES (DVBE): THE REQUIREMENTS OF THIS PROJECT ARE SUCH THAT ALL BIDDERS MUST COMPLY WITH THE STATE REQUIREMENTS FOR DVBE CONTRACTOR SOLICITATION, PROJECT ADVERTISEMENT AND SUBSEQUENT DOCUMENTATION FAILURE TO PROPERLY COMPLY WITH ALL NECESSARY REQUIREMENTS AND SUBSEQUENT DOCUMENTATION MAY BE GROUNDS FOR SCHOOL BOARD ACTION TO REJECT A BID AS INVALID AND/OR NON-RESPONSIVE. FOR ADDITIONAL INFORMATION REFER TO PROJECT MANUAL. FINGERPRINTING: FINGERPRINTING AND BACKGROUND CHECKS IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS SHALL BE REQUIRED FOR ALL WORKERS WHO WILL BE PERFORMING WORK OUTSIDE OF THE ESTABLISHED CONSTRUCTION BARRICADES (MINIMUM 6' HIGH FENCE) DURING HOURS THAT THE ADJACENT CAMPUSES ARE OCCUPIED SIMULTANEOUSLY BY THE STUDENTS. ANY WORKER FOUND TO BE IN VIOLATION OF THESE REQUIREMENTS WILL BE ASKED TO LEAVE THE PROJECT SITE UNTIL THE APPROPRIATE DOCUMENTATION IS PROVIDED.	W. PLEASANT VALLEY ROAD

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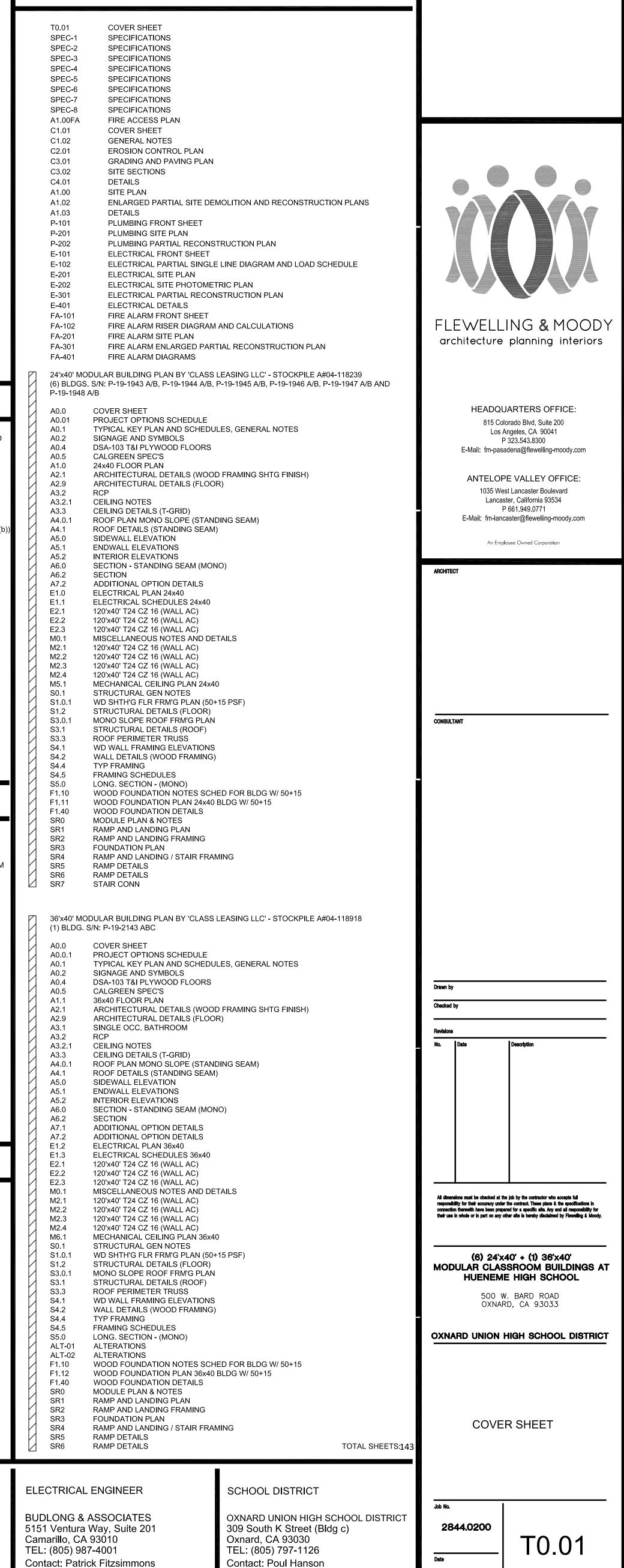
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SHEET INDEX

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.

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.

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.

ALL WELD SMOOTH AND SLUSH WITH BASE METAL.

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

2.02 GALVANIZING

2.03 FABRICATION

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

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

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.

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.

SHALL BE FITTED WITH WASHERS.

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 ASSOCIATION (WWPA) LATEST EDITIONS.

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

GRADE AND GRADE-MARKED BY THE AMERICAN PLYWOOD ASSOCIATION. D. BOLTS: ASTM A 307, GRADE A SQUARE OR HEXAGONAL HEAD, SIZES AND

1. BOLTS, NUTS AND WASHERS FOR USE IN LOCATIONS SUBJECT TO MOISTURE FOR OUTSIDE USE OR IN PORTIONS OF THE STRUCTURE, WHICH ARE NOT COMPLETELY ENCLOSED, OR ELSEWHERE AS SPECIFIED OR INDICATED. GALVANIZED IN COMPLIANCE WITH ASTM A 153.

SPACING AS REQUIRED BY THE DRAWINGS. ALL HEADS AND NUTS BEARING ON WOOD

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.

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.

2. 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 MANUFACTURER, FOR THE SURFACES TO BE CLEANED, PRIMED OR SEALED.

2. SEALANT BACKER ROD:

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.

3.00 EXECUTION

3.01 INSTALLATION

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.

END OF SECTION

SECTION 09 91 00

1.00 **GENERAL**

A. PAINTING AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING, BUT NOT LIMITED TO THESE MAJOR ITEMS:

B. EXTERIOR SURFACES NOT TO BE PAINTED.

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

1.02 RELATED WORK SPECIFIED ELSEWHERE AS REQUIRED

B. PROJECT SIGN, IN DIVISION 0. TEMPORARY FACILITIES.

A. SHOP PRIMED METAL.

D. ELASTOMERIC COATING

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

1.05 PROTECTION

DESIGNATION ON MATERIAL LIST.

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

2.03 MANUFACTURERS

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.

1. EQUIVALENT MATERIALS FROM THE ARCHITECTURAL PRODUCT LINE OF SINCLAIR/ICI DULUX PAINT COMPANY, SHERWIN WILLIAMS, FRAZEE

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

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

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

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.

3.03 CLEANING AND PATCHING

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.

5. DISABLED ACCESS PARKING SIGNS AND GATE SIGNS. 6. ROOM OCCUPANCY SIGNS.

7. TOILET ROOM SIGNS.

8. BUILDING IDENTIFICATION SIGNS.

1.02 DESIGN

A. WORK SHALL CONFORM TO 2013 CBC 11B AND THE AMERICAN WITH DISABILITIES ACT.

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 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

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.

SYMBOLS. SECURE ADJACENT TO DOOR, WHERE INDICATED. SIMILAR TO: ASI INFINITY;

2.02 PERMANENT TEXT SIGNS 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 SIZE AS REQUIRED TO PROVIDE TEXT STATED USING 1 INCH HIGH LETTERS, UPPER AND LOWER CASE MODIFIED HELVETICA, AND OTHER TEXT.

C. MOUNTING: SCREWS 1/4 INCH DIAMETER, CORROSION AND VANDAL

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

B. MATERIAL: FIBERGLASS BASE, WITH URETHANE FINISH AND SILK SCREENED

2.04 DISABLE ACCESS SIGNS, OCCUPANCY SIGNS

SUB-SURFACE TEXT AND PICTOGRAM.

A. TOILET ROOM SYMBOLS 1. MEN'S AND BOYS' SIGN IS A 12" TRIANGLE. PANEL IS PAINTED ACRYLIC WITH

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

RESISTANT. SELF DRILLING.

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

3.00 EXECUTION

3.01 PERMANENT TEXT

3.02 INSTALLATION

EQUAL.

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.

SAFETY STANDARDS AND REQUIREMENTS OF CAL/OSHA.

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

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

C. COMPLY STRICTLY TO ALL LOCAL AIR QUALITY MANAGEMENT DISTRICT'S

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

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

A. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, LICENSES, OR

RULES AND REGULATIONS. PART 2 - PRODUCTS

2.1 SATISFACTORY SOIL MATERIALS:

SECTION 31 20 00 FOR REQUIREMENTS.

PART 3 - EXECUTION 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

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

AS FILL OR BACKFILL.

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

A. OBTAIN APPROVED CLEAN BORROW SOIL MATERIALS OFF-SITE WHEN SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE, ALL BORROW SITES

PART 2 - PRODUCTS

REQUIRE APPROVAL BY GEOTECHNICAL ENGINEER OF RECORD AND SHALL BE DTSC APPROVED SITE. PART 3 - EXECUTION

UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING B. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING

A. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER

FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT,

3.2 EXCAVATION, GENERAL 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 UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH

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 A. EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND SUBGRADES.

SATISFACTORY SOIL MATERIALS.

3.6 COMPACTION OF SOIL BACKFILLS AND FILLS

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.

3.4 STORAGE OF SOIL MATERIALS

EARTH MOVING OPERATIONS.

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

LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. RETAIN ONE OPTION IN PARAGRAPH BELOW BASED ON ASTM LABORATORY-TEST

PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 6 INCHES IN

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

METHOD REQUIRED. REPLACE THE TERM "UNIT WEIGHT" WITH "DENSITY" IF

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) BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL

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

A. GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF

BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS

IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. B. SITE ROUGH GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM

BACKFILL SOIL MATERIAL AT 90 PERCENT.

MATERIAL AT 90 PERCENT.

WITHIN THE FOLLOWING TOLERANCES:

UNDER PAVEMENTS AND WALKS AS FOLLOWS:

TO ASTM D 698 ASTM D 1557.

OPTION IN PARAGRAPHS ABOVE.

3.9 FIELD QUALITY CONTROL

3.7 GRADING

TURF OR UNPAVED AREAS: PLUS OR MINUS 1 INCH (25 MM)] 3. WALKS: PLUS OR MINUS 1 INCH (25 MM)

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"

1. COMPACT SUBBASE COURSE AND BASE COURSE AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 90 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING

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 A. REMOVE SURPLUS SATISFACTORY SOIL AND WASTE MATERIALS, INCLUDING

END OF SECTION

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

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ARCHITECT

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(6) 24'x40' + (1) 36'x40'

500 W. BARD ROAD

OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL

SPECIFICATIONS

2844.0200

9-26-2019

PAINTING

1.01 DESCRIPTION

1. ALL SURFACES SCHEDULED, SPECIFIED OR INDICATED.

1. CONCRETE PAVING AND BASE, INCLUDING METAL INSERTS. 2. STAINLESS STEEL.

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

C. SIGNAGE.

1.04 PRODUCT HANDLING

NECESSARY

COAST AIR QUALITY CONTROL DISTRICT.

INDUSTRIES INC. OR VISTA PAINT CORP. WILL BE ACCEPTABLE, SUBJECT TO ARCHITECTS' APPROVAL.

2.03 MATERIALS

1ST COAT - QD43-7 GALVA-ALUM

3RD COAT - W960 PERMAGLOSS 2. SURFACE - WOOD

3.01 PREPARATION OF SURFACES A. GENERAL: SURFACES TO RECEIVE PAINT FINISH SHALL BE PREPARED AS

PRIME SURFACES AS FOLLOWS BEFORE WALL OR CEILING FINISH IS APPLIED.

SECTION 32 16 00 CONCRETE SITEWORK

PART 1 - GENERAL

1.1 SECTION INCLUDES:

- A. CONCRETE WALKS, PAVING, RAMPS, CURBS, WALLS, MOW STRIPS, FENCE FOOTINGS AND CATCH BASINS, AND MISCELLANEOUS CONCRETE SITE WORK AS INDICATED ON THE DRAWINGS.
- B. FURNISHING AND INSTALLING FORMWORK.
- C. FURNISHING AND INSTALLING REINFORCING STEEL.
- D. FURNISHING AND PLACING CONCRETE, INCLUDING JOINTS AND FINISHING.
 - E. CURING CONCRETE.

1.2 RELATED SECTIONS:

A. DIVISION 31: EARTHWORK

PART 2 - PRODUCTS

2.1 MATERIALS

- A. CONFORM TO SECTION 201 "CONCRETE, MORTAR AND RELATED MATERIALS" OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
- B. FORMS: STEEL, WOOD, OR OTHER SUITABLE MATERIAL OF SIZE AND STRENGTH TO RESIST MOVING DURING CONCRETE PLACEMENT AND TO RETAIN HORIZONTAL AND VERTICAL ALIGNMENT UNTIL REMOVAL. USE STRAIGHT FORMS, FREE OF DISTORTION AND DEFECTS.
- 1. USE FLEXIBLE SPRING STEEL FORMS OR LAMINATED BOARDS TO FORM RADIUS BENDS AS REQUIRED.
- 2. COAT FORMS WITH A NON-STAINING FORM RELEASE AGENT THAT WILL NOT DISCOLOR OR DEFACE SURFACE OF CONCRETE.

C. REINFORCING STEEL:

- 1. REINFORCING BARS: ASTM A615, GRADE 60.
- WELDED WIRE MESH: ASTM A185.

D. CONCRETE MATERIALS:

- 1. FINISHED CONCRETE: CONCRETE CLASS PER PWC SPECIFICATIONS SECTION 201-1 12, EXCEPT 6-INCH REINFORCED CONCRETE PAVING SHALL BE 560-C-3500 CONCRETE.
- 2. COMBINED AGGREGATE: GRADATION PER PWC SPECIFICATIONS, SECTION
- 3. CEMENT: PORTLAND CEMENT, TYPE II CONFORMING TO ASTM C-150.
- 4. WATER: CLEAR, CLEAN AND FREE FROM OIL, VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCES.

E. CONTROL JOINT MATERIAL

- 1. PLASTIC: "QUICKJOINT" T-SHAPED 1/16" PLASTIC STRIP, 1 INCH MINIMUM DEPTH AS DISTRIBUTED BY J.A. CRAWFORD CO. PHONE (562) 698-0901, OR APPROVED EQUAL.
- PRE-MOLDED EXPANSION JOINT FILLER: ASTM 1751 NON-EXTRUDING BITUMINOUS SATURATED RESILIENT JOINT FILLER.
- LIQUID CURING COMPOUND: NON-STAINING, COMPLYING WITH ASTM C309 AT MANUFACTURERS RECOMMENDED RATE OF APPLICATION. DELIVER

CURING COMPOUND IN UNOPENED LABELED CONTAINERS.

PART 3 - EXECUTION

3.1 PREPARATION

- A. GENERAL; COORDINATE WORK WITH RELATED TRADES. DO NOT LOCATE RELATED WORK IN CONCRETE EXCEPT AS DETAILED. PLACE CONDUITS IN CONCRETE SLABS WITH A MINIMUM COVER OF 2" ABOVE AND BELOW CONDUIT. LOCATE ACCURATELY AND SECURE IN PLACE ALL INSERTS, BOLTS, TIES, DOWELS, MISCELLANEOUS PLATES, ETC., BEFORE POURING. THEY SHALL BE CLEAN AND FREE FROM ANY COATING WHICH WOULD REDUCE THEIR BOND.
- B. REINFORCING STEEL: POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. LOCATE AND SUPPORT WITH METAL CHAIRS, RUNNERS, BOLSTER, SPACERS AND HANGERS, AS REQUIRED. SET WIRE TIE SO ENDS ARE DIRECTED INTO CONCRETE, NOT TOWARD EXPOSED CONCRETE

3.2 CONCRETE MIX

A. COMPLY WITH REQUIREMENTS OF PWC SPECIFICATIONS, SECTION 201-1.3 PROPORTIONING AND SECTION 201-1.4 MIXING AND AS HEREIN SPECIFIED. CONCRETE STRENGTH SHALL BE 2500 PSI AT 28 DAYS UNLESS SPECIFIED BY ARCHITECT TO BE OF A GREATER STRENGTH FOR THE APPLICATION-SPECIFIC

3.3 PLACING CONCRETE

A. GENERAL: PLACE CONCRETE IN ACCORDANCE WITH PWC SPECIFICATIONS SECTION 303-5.3.

3.4 FINISHING

A. MEDIUM BROOM FINISH: BROOM FINISH BY DRAWING A FINE-HAIR BROOM ACROSS CONCRETE SURFACE, PERPENDICULAR TO LINE OF TRAFFIC. REPEAT OPERATION IF REQUIRED TO PROVIDE A FINE LINE TEXTURE ACCEPTABLE TO ARCHITECT.

3.5 CURLNG

A. LIQUID CURING COMPOUND FOR NATURAL CONCRETE: LOCATIONS AS APPROVED BY ARCHITECT. APPLY A UNIFORM COATING WITHIN 2 HOURS OF FINAL TROWELING.

END OF SECTION

SECTION 32 31 15 CHAIN LINK FENCING AND GATES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. PRINCIPAL WORK ITEMS ARE:
- CHAIN LINK FENCE. 2. CONCRETE POST FOUNDATIONS. 3. ALL HARDWARE, EXCEPT PADLOCKS.

1.2 QUALITY ASSURANCE

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

- A. ALL FENCE COMPONENTS TO BE GALVANICALLY COMPATIBLE.
- 2.2 MATERIALS; FABRIC
- 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

STRIPPING TEST; WITHSTAND 5 ONE-MINUTE IMMERSIONS PER PREECE TEST PER ASTM A-392 & A-90.

B. FENCE & GATE FABRIC:

- 1. ONE-PIECE FABRIC FULL-HEIGHT FOR FENCE THRU 12'-0"; EDGES KNUCKLED SELVAGE. TOP EDGES OVER 6'-0" ABOVE ADJACENT FINISH SURFACE.
- 2. MESH SIZE: 2" TYPICAL.
- 3. WIRE DIA.: #9 GA. TYPICAL
- 4. FABRIC SHALL BE FREE FROM BARBS, ICICLES, OR OTHER PROJECTIONS RESULTING FROM THE GALVANIZING PROCESS, WHICH MIGHT BE HAZARDOUS. FENCE FABRIC HAVING SUCH DEFECTS WILL BE REJECTED AND CONTRACTOR SHALL REPLACE IT WITH SUITABLE FABRIC AT NO COST TO DISTRICT EVEN IF IT HAS BEEN INSTALLED.

2.3 MATERIALS; FRAMEWORK

- A. PIPE: ASTM F-1083, GROUP IA, SCHED. 40, STANDARD WELDED OR SEAMLESS STEEL PIPE, COMMERCIAL HOT-DIPPED ZINC COATED, 1.8 OZ/SQ. FT. MIN. EVENLY DEPOSITED; REASONABLY STRAIGHT, BURRS REMOVED, FREE OF DEFECTS AND ALL ROUGHNESS.
- B. SIZES: FOR FENCING 8' HIGH OR LESS;

ITEM	O.D INCHES	WGT. LBS/L.F.
1. LINE POSTS:	2.375	3.65
2. CORNER, TERMINAL & PULL POS		5.80
3. PEDESTRIAN GATE POSTS:		0.00
3.1. FOR GATE LEAF 0' THRU 6'	2.875	5.80
3.2. LEFT 6'-1" THRU 13'	3.500	7.58
4. GATE POSTS: FOR GATE LEAD \		
4.1. 0' THRU 6':	3.500	7.58
4.2. 6'-1" THRU 13':	4.500	10.80
4.3. 13'-1" THRU 18':	6.625	18.99
5. TOP RAILS, BOTTOM RAILS, BRA	ACE RAILS, &	
BOTTOM RAILS:	1.660	2.27
6. GATES: FOR GATE LEAF WIDTH:	S AS LISTED:	
6.1. FRAME THRU 12':	1.900	2.72
6.2. FRAME OVER 12':	2.375	3.65
6.3. BRACING:	1.660	2.27
7. FOR 8' TO 12' HIGH FENCING:		
7.1. LINE POST:	2.875	5.80
7.2. CORNER & TERMINAL POST	S: 3.500	3.58
7.3. GATE POSTS (GATE LEAF <	6') 4.00	9.12
7.4. TOP RAILS, BOTTOM RAILS,		
BRACE RAILS & TRANSOM F		2.72

2.4 MATERIALS; ACCESSORIES

A. WIRE: ALL GALVANIZED.

- 1. TENSION: #9 GA. STEEL, COLD DRAWN, MARCELLED; ASTM A-2. TIES: SOFT ANNEALED STEEL; FS QQ-W-461; FOR FASTENING FABRIC TO POSTS, TOP RAILS, BOTTOM RAILS AND BRACE RAILS:
- a. #9 GA. TO POSTS. b. #14 GA. TO TOP & BOTTOM RAILS, AND TENSION WIRE. GALVANIZING; ALL ACCESSORIES, EXCEPT WIRE: ASTM A-153

C. FITTINGS:

- 1. TENSION BARS: 3/16" X 3/4", MILD STEEL.
- 2. STEEL BANDS: 1/8" X 1" TYPICAL, 1/8" X 3/4" AT GATES; MILD STEEL
- 3. POST EYE CAPS: CAST MALLEABLE IRON OR PRESSED STEEL: SNUG FIT TO EXCLUDE MOISTURE FROM POSTS; HOLE TO ACCOMMODATE TOP RAIL.
- 4. TRUSS RODS: 3/8" DIA. STEEL; ADJUSTABLE LENGTH.
- 5. TURNBUCKLES FOR TENSION WIRE: EYE/EYE TYPE, DROP FORGED STEEL, 5/16" MIN. SCREWS WITH 4-1/2" MIN. TAKE-UP.
- 6. BOLTS: 3/8" DIA. MIN.; CADMIUM PLATED.
- 7. EXPANSION COUPLINGS FOR RAILS: STEEL, 6" LONG; DESIGNED TO FIT TIGHTLY INSIDE RAIL, FITTED WITH RAISED CENTER.
- 8. HOG RINGS: SIZES AND GAGES AS REQUIRED; #9 GA. MINIMUM GALVANIZED STEEL.
- 9. RAIL ENDS FOR TOP RAILS AND BRACE RAILS: MALLEABLE IRON (ASTM A47, GRADE 32510) WITH HOLES TO RECEIVE 3/8" BOLTS FOR SECURING TO RAIL END BANDS.
- 10. MISC.: ALL OTHER REQUIRED FITTINGS.
- 11. 1 1/4" TO 1 1/2" BOTTOM RAIL, FULLY WELDED IN PLACE BOTTOM RAIL ONLY.

2.5 MATERIALS; GATE HARDWARE

A GENERAL:

- 1. MFR.'S STANDARD GALVANIZED HEAVY DUTY HARDWARE, UNLESS NOTED OTHERWISE ON DRAWINGS.
- 2. GALVANIZING FOR ALL PARTS: ASTM A-153; GALVANIZE AFTER
- B. HINGES: TYPICALLY, MALLEABLE IRON, DOUBLE CLAMPING, NON-LIFT-OFF, OFFSET TYPE FOR 180 DEG. SWING. INSTALL AND ADJUST HINGES: BURR OR CENTER PUNCH THREADS OF GATE HINGE BOLTS TO PREVENT REMOVAL OF
- C. LATCHES: TYPICALLY, MALLEABLE IRON, FORKED OR PLUNGER-BAR TYPE, PERMIT OPERATION FROM EITHER SIDE OF GATE, GRAVITY TYPE AUTOMATICALLY ENGAGING GATE FRAME; WITH PADLOCK EYES FOR LOCKING
- TO 44" ABOVE FINISHED FLOOR. D. KEEPER: MALLEABLE IRON; AUTOMATICALLY ENGAGE GATE WHEN SWUNG

GATES IN BOTH THE OPEN AND CLOSED POSITIONS; MOUNTING HEIGHT AT 30"

OPEN 180 DEG., AND HOLD UNTIL MANUALLY RELEASED. E. PAIRS OF GATES:

- 1. STOPS: FLUSH STEEL PLATE, WITH ANCHORS.
- 2. LATCH: CENTER DROP ROD OR PLUNGER BAR; WITH INTEGRAL PADLOCK

2.6 MATERIALS, MISC.

- A. PORTLAND CEMENT CONCRETE: 1: 2-L/2: 3-L/2 MIX (2500 PSI MIN.) DELIVERED BY READY-MIX TRUCK. CONCRETE BAG MIXES OR CONCRETE MIXED ON-SITE ARE NOT ACCEPTABLE. 2.7 FABRICATION; GATES
- A. FRAME: WELD FRAMES WITH INTEGRAL RADIUS OR MITERED AND FULLY WELDED CORNERS; HORIZONTAL BRACING RAILS FOR GATES EXCEEDING 6' HIGH; VERTICAL BRACING RAILS AT 6' O.C. MAX. FOR GATES EXCEEDING 9' WIDE; DIAGONAL CROSS-BRACING TRUSS RODS TO INSURE GATES STAY SQUARE AND OPERATE PROPERLY. GRIND ALL WELDS FLUSH AND SMOOTH. GALVANIZE AFTER FABRICATION.
- B. FABRIC: STRETCH TAUT; TENSION BARS AND BANDS A 15" O.C. MAX. AT VERTICAL EDGES. TENSION BARS SHALL EXTEND FULL HEIGHT OF GATES. WIRE TIE FABRIC AT 12" O.C. MAX. TOP, BOTTOM, AND BRACING RAILS.

PART 3 - EXECUTION

3.1 PREPARATION

- 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 MODIFICATIONS TO EXISTING FENCE.
- C. POST SPACING:
- BUT DO NOT EXCEED <u>10-FEET</u> ON CENTER, UNLESS NOTED OTHERWISE.

1. GENERAL: LOCATE LINE POSTS AT EQUAL-DISTANCE SPACING IN A RUN,

3.2 INSTALLATION; FOOTINGS

- A. SIZES; FOR FENCING 8' HIGH OR LESS:
- DIAMETER (INCHES) LINE POSTS: CORNER POSTS: 3. GATE POSTS: FOR GATE LEAF WIDTHS AS LISTED. a. LEAF 0' THRU 8'
- B. POSTS; FOR 8' HIGH OR GREATER FENCING: LINE POSTS:
- b. LEAF 8'-1" THRU 13' 2. CORNER POSTS: 3. GATE POSTS: FOR GATE LEAF WIDTHS AS LISTED. a. LEAF 0' THRU 8'
- C. HOLES: DRILL HOLES IN FIRM, UNDISTURBED, OR COMPACTED SOIL.

3.3 ERECTION; FRAMEWORK

A. POSTS:

b. LEAF 8'-1" THRU 13':

- 1. TYPICAL INSTALLATION; POSTS SET INTO CONCRETE FOOTINGS:
- a. GENERAL: SET POSTS INTO CONCRETE FOOTINGS PLUMB, CENTERED, AND ALIGNED; 3" CONCRETE COVER BETWEEN POST BOTTOM AND EARTH.
- b. CONCRETE: PLACE IN CONTINUOUS POUR IN HOLE; TAMP TO CONSOLIDATE; CROWN CONCRETE TO DRAIN WATER AWAY FROM

c. REBAR: WHERE INDICATED, INSTALL REBAR CAGES.

- d. SET POSTS AND FOOTINGS PRIOR TO INSTALLATION OF ADJACENT PAVING. LOCATE TOP OF FOOTING A MINIMUM OF 3 INCHES (4" AT CONCRETE) BELOW INDICATED FINISH ELEVATION OF TOP OF ADJACENT PAVING OR MOW STRIP, TO ALLOW PAVING OR MOW STRIP TO COVER FOOTING AND FINISH TIGHT TO POST.
- 2. CORNER/TERMINAL/PULL POSTS: INSTALL AT ENDS OF RUNS, HORIZONTAL DIRECTION CHANGES OF 15 DEG. OR MORE, VERTICAL GRADE CHANGES OF 5 DEG. OR MORE, ENDS OF CURVED FENCE SECTION; PULL POST EACH 500' RUN OF FENCE.
- 3. GATE POSTS: INSTALL EACH SIDE OF GATES.

3.4 ERECTION; FENCE FABRIC

- A. FABRIC: INSTALL IN ONE CONTINUOUS PIECE WHEREVER POSSIBLE; STRETCH 1. ADJOINING EXISTING FENCING: MATCH EXISTING.
- 2. AT REPLACEMENT OF FENCE FABRIC: MATCH EXISTING, UNLESS NOTED OTHERWISE.

B. FASTENINGS:

- 1. AT TERMINAL/CORNER/PULL/GATES POSTS, THREAD TENSION BARS THRU MESH; SECURE TO POSTS WITH BANDS AT 15" O.C. MAX.
- 2. WIRE-TIE FABRIC TO LINE POSTS AT 16" O.C.; TO TOP RAIL, BOTTOM RAILS, BRACE RAILS, AND INTERMEDIATE RAILS AT 18" O.C.
- 3. HOG-RING TO BOTTOM TENSION WIRE AT 18" O.C., WHERE BOTTOM RAILS DO NOT OCCUR.

4. HOOKED TIES WITH LINKS ARE NOT PERMITTED.

3.5 ERECTION; GATES

- A. INSTALL GATES PLUMB AND LEVEL TO A TOLERANCE OF 1/4 IN. IN 10 FT.
- B. INSTALL GROUND-SET ITEMS IN CONCRETE. C. ADJUST HARDWARE TO PROVIDE SMOOTH OPERATION. LUBRICATE WHERE
- REQUIRED. D. KNUCKLE ENDS OF FABRIC TO ELIMINATE HAZARDS. ALLOW CLEARANCE ON

GATES OF 1-1/2" AT BOTTOM. 3.6 EXISTING FENCING; REMOVAL, REUSE, SALVAGE, & MODIFICATIONS

- A. REMOVAL WORK:
- 1. REMOVE EXISTING FENCING AS INDICATED, INCLUDING CONCRETE POST FOOTINGS AND MOW STRIPS.
- SURROUNDING EARTH. AT PAVING AREAS, COMPACT FILL TO 95% MAX. DRY DENSITY, AND FLUSH WITH ADJOINING SURFACES. 3. DISPOSAL: DISPOSE OF ALL REMOVED MATERIALS WHICH ARE NOT

2. POST HOLES: FILL WITH EARTH, COMPACT TO SAME DENSITY AS

- INDICATED TO BE REUSED OR SALVAGED, OFF-SITE AT CONTRACTOR'S EXPENSE. B. REUSE OF EXISTING FENCING; WHERE INDICATED AND APPROVED BY
- 1. REMOVE EXISTING FENCE FABRIC AS INDICATED. LEAVE POSTS AND
- FOOTINGS IN PLACE. 2. FULLY CLEAN EXISTING POSTS OF ALL RUST, PROPERLY PREP, AND APPLY GALVANIZING PAINT PER MFR.'S SPECIFICATIONS. FINISH SURFACE TO BE CLEAN AND SMOOTH AND WITH CONSISTENT GALVANIZED COATING
- EQUAL TO G-90 HOT-DIPPED GALVANIZING. 3. REPLACE ANY DAMAGED POSTS AS DETERMINED BY THE ARCHITECT.
- 4. PROVIDE NEW POSTS AND FRAMING MEMBERS AS INDICATED ON
- 5. INSTALL NEW FENCE FABRIC AND HARDWARE TO SAME REQUIREMENTS
- AS SPECIFIED FOR ALL-NEW WORK. 6. DO NOT REUSE DEFECTIVE MATERIALS OR PARTS.
- 7. SUPPLY ANY MISSING AND/OR ADDITIONAL PARTS NECESSARY FOR A
- COMPLETE INSTALLATION. 8. CONFORM TO SAME STANDARDS AS FOR ALL-NEW WORK.

9. DISPOSE OF ALL REMOVED MATERIALS WHICH ARE NOT INDICATED TO BE REUSED, OFF-SITE AT CONTRACTOR'S EXPENSE.

3.7 ADJUSTMENT & CLEANING A. ADJUSTMENT: ADJUST BRACE RAILS AND TENSION RODS FOR RIGID

INSTALLATION. TIGHTEN HARDWARE, FASTENERS, AND ACCESSORIES.

- B. REPAIR OF DAMAGED WORK: WHERE OPERATIONS DAMAGE WORK TO REMAIN, REPAIR. REPLACE OR RESTORE WORK AS DIRECTED BY ARCHITECT AND/OR DISTRICT USING QUALIFIED WORKMEN OF RESPECTIVE TRADES. CLOSELY COORDINATE WORK WITH IRRIGATION, PAVING, CONCRETE, LANDSCAPING, ELECTRICAL AND UTILITIES, AND ALL OTHER RELATED OR ADJACENT WORK.
- C. CLEANING: REMOVE EXCESS AND WASTE MATERIALS FROM PROJECT SITE.

END OF SECTION

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dimensions must be checked at the job by the contractor who accepts full

sponsibility for their accuracy under the contract. These plans & the specifica

onnection therewith have been prepared for a specific site. Any and all responsibility fo

heir use in whole or in part on any other site is hereby disclaimed by Flewelling & Mo

(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT

OXNARD UNION HIGH SCHOOL DISTRICT

HUENEME HIGH SCHOOL

500 W. BARD ROAD

OXNARD, CA 93033

SPECIFICATIONS

2844.0200

9-26-2019

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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 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.
- 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 IN BOTH
- 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.
- 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
- 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.

OF DAMAGES TO SUCH SERVICES 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.
- 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.
- CLEAN AND DRY SURFACES PRIOR TO INSULATING.
 EXTEND INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, HANGERS AND SIMILAR
- PENETRATIONS.

 4. INSULATION JACKET AND FITTING COVER MUST BE PLENUM RATED.

 5. IT IS ESSENTIAL THAT THE INTEGRITY OF THE VAPOR-BARRIER BE MAINTAINED. SEAL ALL
- 5. IT IS ESSENTIAL THAT THE INTEGRITY OF THE VAPOR-BARRIER BE MAINTAINED. SEAL ALL PENETRATIONS OF THE VAPOR BARRIER BY STAPLES, HANGERS OR WHERE OTHERWISE DAMAGED.
- 6. MAINTAIN ACCESS TO VALVES.7. INSULATION SHALL BE BY OWENS-CORNING, KNAUF, OR MANVILLE

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.SANITARY AND VENT

- 1. ALL PIPING SHALL PITCH TO IT'S APPROPRIATE MAIN AT NO LESS THAN 1/8" PER FOOT SLOPE.
- 2. UNDERGROUND WASTE PIPING SHALL BE ABS ASTM D3965,NSF 14,ASTM F628, D2661
- 3. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON NO-HUB PIPE WITH STAINLESS STEEL BANDED JOINTS AND BE HUNG PER C.I.S.P.I. REQUIREMENTS.
- 4. UNDERGROUND ACID RESISTANT WASTE PIPING SHALL BE SPEARS "LAB WASTE"CPVC FITTINGS NO HUB ABOVE GRADE AND BELOW GRADE.

D.DOMESTIC WATER

- 1. CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER FOR THE INSTALLATION OF A NEW
- WATER SERVICE.

 2. TEST WATER PIPING TO HYDROSTATIC PRESSURE OF 100 PSIG. FOR TWO HOURS. STERILIZE ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH A.W.W.A. STANDARDS.

 MATERIAL: POLYPROPYLENE BY 'PESTAN NORTH AMERICA'
- 3. FITTINGS: POLYPROPYLENE PLASTIC FITTINGS JOINED BY HEAT FUSION.
- ASTM F2389 CSA B137.11
- U/G 18 AWG TRACER WIRE
- 4. LOCATION: ABOVE AND BELOW GRADE. PAINT FOR UV PROTECTION ABOVE GRADE.
- 5. BY 'PESTAN NORTH AMERICADOMESTIC WATER VALVES SHALL BE AS FOLLOWS:
- a. 2" AND SMALLER SHALL BE MILWAUKEE VALVE #BA-100 OR #BA-150 BALL VALVE

E. CONDENSATE DRAINAGE

- 1. UNDERGROUND CONDENSATE DRAINAGE SHALL BE TYPE SCH 40 PVC AND PAINTED FOR WEATHER PROTECTION.
- 2. ABOVE GROUND CONDENSATE DRAINAGE SHALL BE TYPE SCH 40 PVC AND PAINTED FOR WEATHER PROTECTION.

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

- 1. 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

A.GENERAL

1. DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION

MATERIALS. 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

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.

- TEST ALL SEWER AND WATER PIPING IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
 FIXTURE FITTINGS THAT ARE DESIGNED AND/OR INTENDED TO DELIVER POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE THIRD-PARTY TESTED AND CERTIFIED FOR NOT EXCEEDING THE MAXIMUM ALLOWABLE LEAD CONTENT, PER THE NSF/ASNI 372 STANDARD.
- 4. FIRE STOPPING REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE AND UL CONSTRUCTION DESIGN NUMBER. FOR RATED MASONRY WALL AND FLOOR ASSEMBLIES, PROVIDE A UL APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM NUMBER C-AJ-1175. FOR RATED GYPSUM BOARD ASSEMBLIES, PROVIDE A UL APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM NUMBER W-L-1003.

B.PIPING

- 1. PIPE HANGERS FOR THE PLUMBING SYSTEM SHALL BE ADJUSTABLE CLEVIS HANGERS WITH APPROPRIATE CLAMP. ALL PIPING SHALL BE SUPPORTED ON A MAXIMUM SPACING OF:
- a. 6' CENTERS FOR PIPING 3/4" AND SMALLER.
- b. 8' CENTERS FOR 1" PIPING.
- c. 10' CENTERS FOR PIPING LARGER THAN 1"
- d. PIPE HANGERS FOR INSULATED PIPING SYSTEMS SHALL BE SIZED FOR THE GROSS OUTSIDE DIMENSION OF THE PIPE AND INSULATION. SEE INSULATION SPECIFICATIONS FOR INSULATION REQUIREMENTS.



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Revision	ns	
No.	Date	Description
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All dimensions must be checked at the job by the contractor who accepts full responsibility for the 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.

(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL

500 W. BARD ROAD OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

SPECIFICATIONS

2844.020

01-09-2020

SPEC-3

ELECTRICAL SPECIFICATIONS

SECTION 26 0126 TEST AND ACCEPTANCE REQUIREMENTS

1.00 SCOPE

- 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.
- AS NOTED ON DRAWINGS.

 D. INSTALL AND CONNECT ALL OWNER FURNISHED EQUIPMENT AS

FURNISH, INSTALL AND CONNECT CONTROL CABLE AND CONNECTORS

NOTED. COORDINATE WITH OWNER BEFORE INSTALLATION.

- A. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR. SERVICE, HOISTING, SUPPORT AND SUPERVISION FOR ALL WORK
- 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
- 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

A. 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

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.

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

1.01 CUTTING & PATCHING

A. 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

- 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
 - HANDLES SHALL BE WHITE COLOR. SWITCHES SHALL BE A.C. QUIET TYPE RATED 20 AMPERES AT 120 AND/OR 277 VOLTS. HUBBELL #1221.

 FURNISH AND INSTALL CONVENIENCE RECEPTACLE AT EACH
 - LOCATION INDICATED ON THE DRAWINGS. RECEPTACLE SHALL BE 5262.

LOCATION, THEY SHALL BE INSTALLED UNDER A MULTIPLE GANG

PLATE. SWITCH HANDLE SHALL BE WHITE COLOR. SWITCHES

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

1.01 OUTLET BOXES

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.
- 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.
- C. 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.

EQUIPMENT CONNECTIONS

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 SECTIONS.

1.02 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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BUDLONG & ASSOCIATES, INC

MEP CONSULTING ENGINEERS

Job No. 19-245

CAMARILLO OFFICE DOWNTOWN-LA OFFICE SIS ARDEN AVE, STE 240
CAMARILLO, CAMA



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Revision	ns	
No.	Date	Description
	01-09-2020	DSA SUBMITTAL

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.

(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL

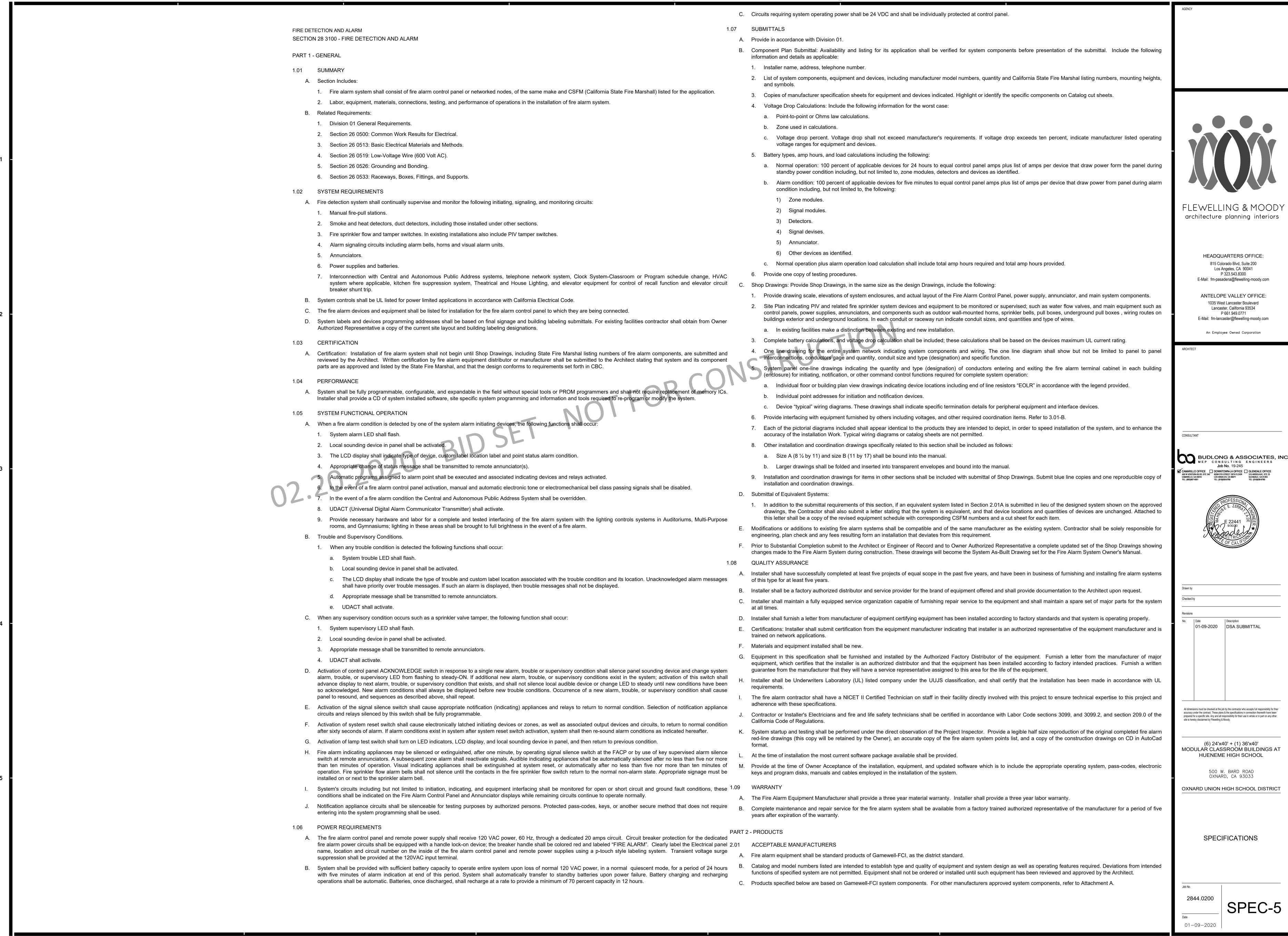
> 500 W. BARD ROAD OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

SPECIFICATIONS

2844.020

SPEC-4
01-09-2020



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). 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 5. Evacuation and drill switches, via a touchpace b. Detector Sensitivity tests, meeting requirements of NFPA 72 Chapter seven. An Employee Owned Corporation c. Maintenance alert, with two levels (maintenance alert or maintenance urgent), to warn of excessive smoke detector dirt or dust accumulation. 6. Pre-signal hold via a touchpad. 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. **Device Trouble Annunciation** f. 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 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 either the instruction or the site map. 2.04 POWER SUPPLIES Cross zoning with the capability of counting: two detectors in alarm, two software zones in alarm, or one smoke detector and one thermal detector A. NOT USED. BUDLONG & ASSOCIATES, INC Walk test, with a check for two detectors set to same address. Control-by-time for non-fire operations, with holiday schedules 2.05 PERIPHERAL DEVICES AND EQUIPMENT
 ✓ CAMARILLO OFFICE
 DOWNTOWN-LA OFFICE
 GLENDALE OFFICE

 400 W VENTURA BILVD, STE 240
 633W 5TH STREET 26TH FLOOR
 315 ARDEN AVE, STE 23

 CAMARILLO, CA 93010
 LOS ANGELES, CA 90071
 GLENDALE, CA 91203

 TEL: (816)538-7800
 TEL: (816)638-8780
 TEL: (816)638-8780
 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 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 a. 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. format 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 b. 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. 01-09-2020 | DSA SUBMITTAL 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. (6) 24'x40' + (1) 36'x40' The network display may mount in a backbox designed for this use. The network shall support the NGAs. MODULAR CLASSROOM 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. HUENEME 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. 500 W. BARD ROAD 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. OXNARD, CA 93033 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. 2. Sprinkler valve tamper switches: NOT USED. R. Universal Digital Alarm Communicator Transmitter: See FACP. 01-09-2020

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 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 synchronization module. Visual notification appliance circuits shall be programmed to be extinguished as described above. Visual notification appliance circuits through out the site shall be activated by any alarm initiating device. 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 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 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 initiated by the UDACT itself. 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. D. Device Descriptors PART 3 - EXECUTION 1. 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 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 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 BUDLONG & ASSOCIATES, INC 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 department personnel in the identification of the building. during alarm conditions. Job No. 19-245
 ✓ CAMARILLO OFFICE
 DOWNTOWN-LA OFFICE
 □ GLENDALE OFFICE

 400 W VENTURA BILVD, STE 240
 633W 5TH STREET 26TH FLOOR
 315 ARDEN AVE, STE 23

 CAMARILLO, CA 93010
 LOS ANGELES, CA 90071
 315 ARDEN AVE, STE 23

 TEL (805)987-4001
 TEL (818)838-8780
 TEL (818)838-8780
 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 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. Fire pump controller for required signaling and trouble supervision. 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 ire alarm system shall not be interconnected to any of the following: 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. 2. 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 -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 3.02 SYSTEM INSTALLATION 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 01-09-2020 | DSA SUBMITTAL 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, 2. Operation of indicating devices (alarm horns, alarm bells and alarm strobes). (6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM 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. HUENEME 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. 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 500 W. BARD ROAD 5. Operation of system features on standby power, with primary power turned off. OXNARD, CA 93033 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 11. 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 01-09-2020

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. 5) 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 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 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 Protect the Work of this section until Substantial Completion. 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. 3.10 CLEANUP 10. Provide codes and passwords for fire alarm system at testing A. Remove rubbish, debris, and waste materials and legally dispose of off Project site **END OF SECTION** A. The following new spare parts shall be furnished in unopened boxes: CONSULTANT Five percent spare pull stations including the associated monitor module (minimum one spare pull station per type). Five percent spare smoke and heat detectors (minimum one spare smoke and heat detector per type). BUDLONG & ASSOCIATES, INC Five percent spare audible devices (minimum one spare audible device per type). Job No. 19-245 Five percent spare strobe devices (minimum one spare strobe device per type).
 ✓ CAMARILLO OFFICE
 DOWNTOWN-LA OFFICE
 □ GLENDALE OFFICE

 400 W VENTURA BILVD, STE 240
 633W 5TH STREET 26TH FLOOR
 315 ARDEN AVE, STE 23

 CAMARILLO, CA 93010
 LOS ANGELES, CA 90071
 315 ARDEN AVE, STE 23

 TEL (805)987-4001
 TEL (818)838-8780
 TEL (818)838-8780
 SYSTEM USER AND MAINTENANCE PERSONNEL TRAINING A. Before Substantial Completion, provide one instruction period for the Project site based Owner operators and system users. The instruction period shall be scheduled and B. Training materials and required deliverables shall be submitted to the OAR. 1. 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: 01-09-2020 DSA SUBMITTAL 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. (6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT a. Hand out the SYSTEM OPERATION instructions to attendees. HUENEME HIGH SCHOOL b. Point out the Fire Alarm Control Panel and have them observe the normal LED status (one green LED only should be on): 500 W. BARD ROAD 1) GREEN = Normal. OXNARD, CA 93033 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 01-09-2020

CIVIL IMPROVEMENTS FOR 7 MODULAR CLASSROOMS HUENEME HIGH SCHOOL

VICINITY MAP

		ABE	BREVIATIONS
ABBR	ABBREVIATION	FG	FINISH GRADE
A.C. A.C.P.	ASPHALT CONCRETE ASBESTOS CONCRETE	FL FS	FLOWLINE FINISHED SURFACE
A.C.P.	PIPE	FT/S	FEET PER SECOND
AP	ANGLE POINT	FUT	FUTURE
ARCH.	ARCHITECT	GB	GRADE BREAK
ASSOC.	ASSOCIATION	GF	GARAGE FLOOR
AVE	AVENUE	GM	GAS METER
BC	BEGIN CURVE	G.P.	GRADING PERMIT
BCR BDY.	BEGIN CURB RETURN BOUNDARY	GV HGL	GAS VALVE HYDRAULIC GRADE LINE
BEG	BEGIN	HOA	HOME OWNERS
BFP	BACKFLOW PREVENTER	11071	ASSOCIATION
BLDG	BUILDING	HORZ.	HORIZONTAL
DOT	DOTTOM OF DIDE	LID	LITCUL DOTNIT

CONC

CONT

CPS

EASE

EVC

DRAWING

EASEMENT

END CURVE

ELECTRIC

ELEVATION

ELLIPTICAL

EASEMENT

FEDERAL

EQUIVALENT

FINISHED FLOOR

EBAA IRON, INC.

END CURB RETURN

EXISTING GROUND

EDGE OF PAVEMENT

END VERTICAL CURVE

ADE BREAK RAGE FLOOR ADING PERMIT DRAULIC GRADE LINE OME OWNERS RIZONTAL HIGH POINT HIGH PRESSURE SODIUM BEGIN VERTICAL CURVE HW HEADWALL ICP BACK OF WALK OR INTERLOCKING CONCRETE BOTTOM OF WALL CATCH BASIN IRRIGATION CONTROL CALIFORNIA BUILDING INTERSECTION CENTER TO CENTER CURB FACE IRRIGATION CUBIC FEET PER LATERAL LAND DEVELOPMENT CENTERLINE OR CLASS CHAIN LINK FENCE LANDSCAPE LINEAR FEET CRUSHED LOW POINT MISCELLANEOUS BASE CORRUGATED METAL MAXIMUM CONCRETE MASONRY **MANHOLE** MINIMUM MIDDLE OF CURVE CLEANOUT NORTHERLY CONCRETE CONTROL NOT TO SCALE CONNECTOR PIPE ON CURB OR ON CURVE SCREEN COURT OR ON CENTER OVERHEAD WIRE DOUBLE DESIGN PORTLAND CEMENT DECOMPOSED GRANITE CONCRETE OR POINT OF DROP INLET DUCTILE IRON COMPOUND CURVE POINT OF INTERSECTION DIAMETER

PROPERTY LINE

PROCESSED MISC. BASE

POINT OF CONNECTION

POINT OF REVERSE

PRESSURE TREATED

REINFORCED CONCRETE

RESILIENT WEDGE GATE

DOUGLAS FIR

PAVEMENT

PRIVATE

ROAD

RETAINING

PVT

RCP

RD

R.O.W. RIGHT OF WAY RESIDENTIAL PLANNED DEVELOPMENT RECLAIMED WATER RIGHT OF WAY SOUTHERN CALIFORNIA SEWER CLEAN OUT STORM DRAIN STORM DRAIN MANHOLE STANDARD DIMENSION SAND EQUIVALENT SQUARE FOOT/FEET SHEETS SEWER LATERAL STANDARD LAND DEVELOPMENT **SPECIFICATIONS** SOUTHERLY SEWER MANHOLE STREET NAME SIGN STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION SANITARY SEWER STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION STANDARD SIDEWALK SAWCUT TOP OF CURB TELEPHONE TOP OF GRATE TOP OF FOOTING TRAFFIC INDEX TELEPHONE MANHOLE TOE OF SLOPE TOP OF SLOPE OR PIPE TRIPLE TOP OF STEP TOP OF WALL TYPICAL UNDERGROUND VERTICAL CURVE VERTICAL VAULT WATER SURFACE ELEVATION WATER VALVE REINFORCED CONCRETE W.W.M. WELDED WIRE MESH

SDMH

WSEL

Know what's below.

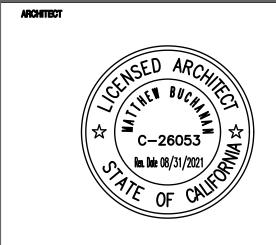
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HEADQUARTERS OFFICE: 815 Colorado Blvd, Suite 200 Los Angeles, CA 90041 P 323.543.8300 E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE: 1035 West Lancaster Boulevard Lancaster, California 93534 P 661.949.0771 E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation







I 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 & M

(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL

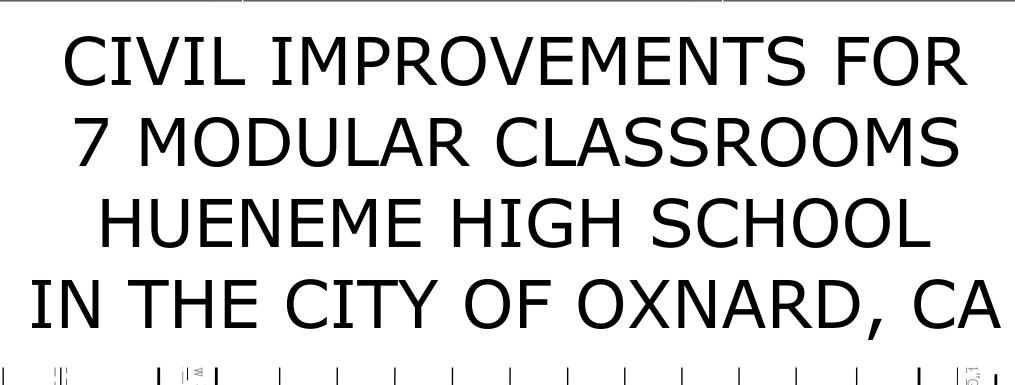
OXNARD, CA 93033

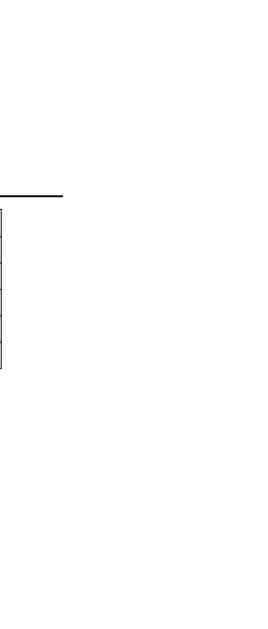
OXNARD UNION HIGH SCHOOL DISTRICT

COVER SHEET

2844.0200

01-06-2020





LEGEND PROPOSED MAJOR CONTOURS PROPOSED MINOR CONTOURS PROPOSED FLOWLINE PROPOSED SEWER LINE PROPOSED WATER LINE PROPOSED STORM DRAIN LINE PROPOSED GRADE BREAK PROPOSED FENCE EXISTING RIGHT OF WAY/PROPERTY LINE EXISTING FENCE - - - - 25.00 - - - - -EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS - - - - 24.50 - - - - -EXISTING ELECTRICAL LINE ---- E -------- G ----EXISTING GAS LINE ---- W ----EXISTING WATER LINE ---- SD ----EXISTING STORM DRAIN LINE EXISTING FIREWATER LINE ---- S ----EXISTING SEWER LINE EXISTING IRRIGATION LINE PROPOSED ELEVATION EXISTING ELEVATION PROPOSED GRADE PROPOSED WALKWAY CONCRETE PAVING

SURVEY NOTES

2. BASIS OF BEARINGS AND COORDINATES

CONTROL POINT TABLE

3 | 1882478.58 | 6204251.03 |

POINT | NORTHING | EASTING | ELEVATION

1 | 1882623.66 | 6204461.46 | 21.65 | SET MAG 2 | 1882471.53 | 6204477.42 | 21.32 | SET MAG

5 | 1882456.11 | 6204387.46 | 22.84 | SET SCRIBED X

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20', WITH A 1 FOOT CONTOUR INTERVAL FROM DATA COLLECTED IN A FIELD SURVEY PERFORMED USING CONVENTIONAL

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

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 BENCHMARKS WERE

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 PERFORMED.

DESCRIPTION

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 CALIFORNIA SPATIAL REFERENCE CENTER



2000	INDEX
C1.01	COVER SHEET
C1.02	GENERAL NOTES
C2.01	EROSION CONTROL PLAN
C3.01	GRADING, PAVING AND UTILITY PLAN
C3.02	SITE SECTIONS
C4.01	DETAILS
C4.02	DETAILS

ENGINEER'S NOTICE TO CONTRACTOR

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

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

77454 01/06/2020 JOSIAH D. JÉNISON R.C.E. DATE



N:\projects\0399\engineering\acad\improvements\0399_01-02_ttlsht_notes.dwg; Last Saved By: jjenison - Dec 02, 2019 - 3:35pm Last Printed By: JJENISON - Jan 06, 2020, 10:37am;

DUMP SITE OFF-CAMPUS.

- 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
- 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 REQUIRED 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.
- 10. 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.
- 27. CONTRACTORS SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
- 28. CONTRACTORS SHALL USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY AQMD RULES 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS AS
- FEASIBLE, DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES. 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

RESET SUCH MONUMENTS.

- 31. TRUCKS AND LARGE CONSTRUCTION VEHICLES WILL OBTAIN APPROVED TRUCK ROUTES FROM THE AGENCIES HAVING JURISDICTION OVER PROPOSED ROUTES.
- 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
- EXCEED 25 MPH: 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

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

CONCERNED BEFORE STARTING TO WORK.

- 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 SITES AT ALL TIMES.
- 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.
- 2. 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-2 MATERIAL USE
- WM-4 SPILL PREVENTION AND CONTROL

WM-3 STOCKPILE MANAGEMENT

- 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.



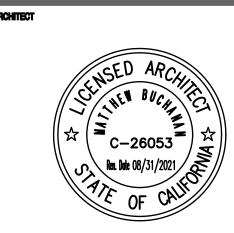
FLEWELLING & MOODY architecture planning interiors

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No.	Date	Description		

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(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL

OXNARD UNION HIGH SCHOOL DISTRICT

GENERAL NOTES

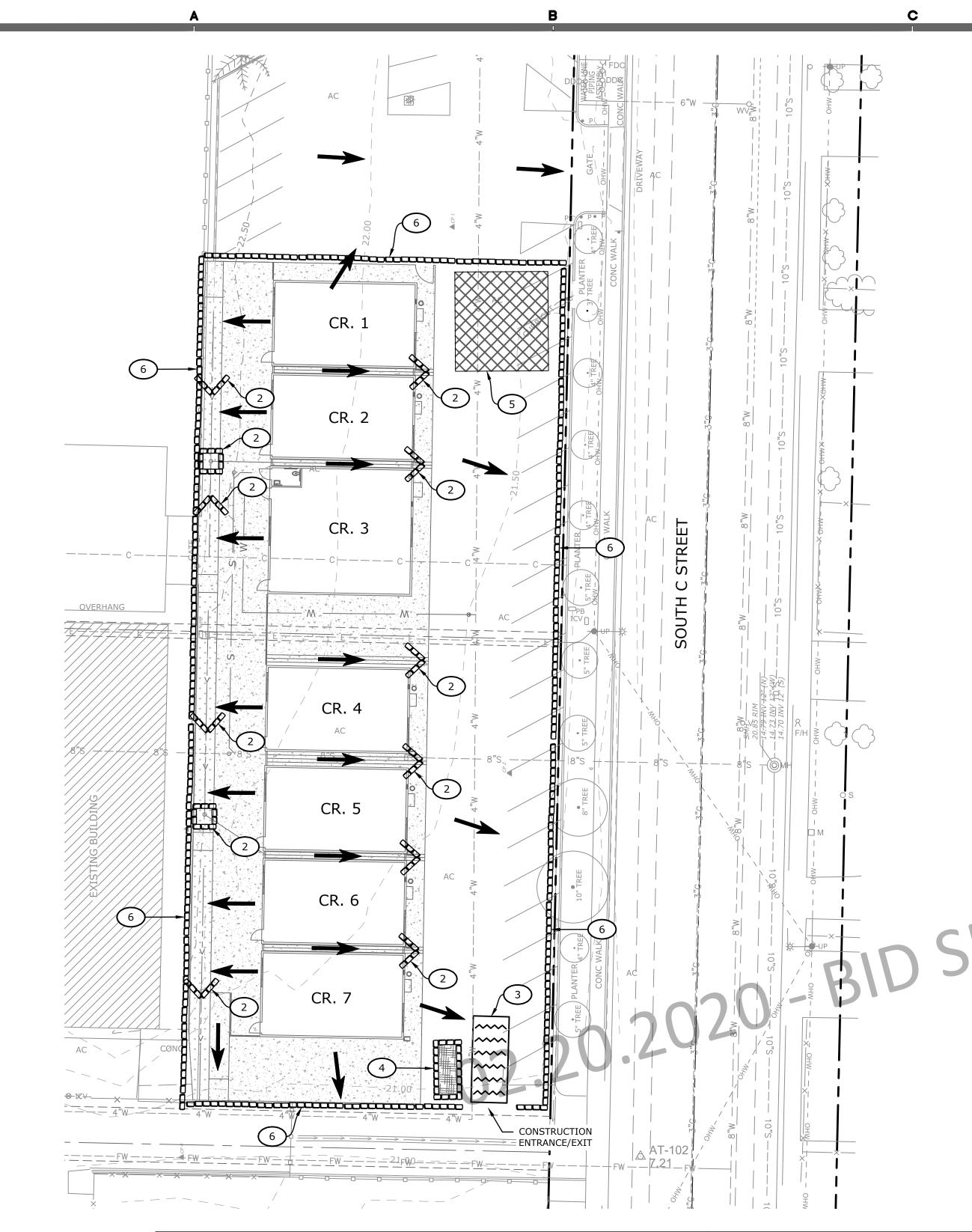


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EROSION CONTROL CONSTRUCTION NOTES

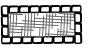
(1) CONSTRUCT SILT FENCE PER BMP SE-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "A" HEREON, PRIOR TO AND DURING GRADING AND THE ESTABLISHMENT OF SITE LANDSCAPING AND PLANTINGS.



(2) CONSTRUCT TEMPORARY GRAVEL BAG CHECK DAM OR CATCH BASIN SEDIMENT 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 PRIOR TO CONSTRUCTION. SEE BMP TC-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "C" HEREON.



4 PROPOSED CONCRETE WASH-OFF AREA PER BMP WM-8 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "D" HEREON. WASH-OFF AREA SHALL 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 CASQA CONSTRUCTION BMP HANDBOOK.

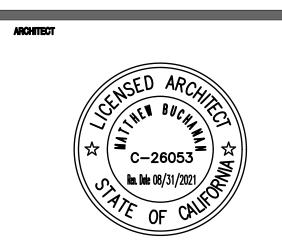


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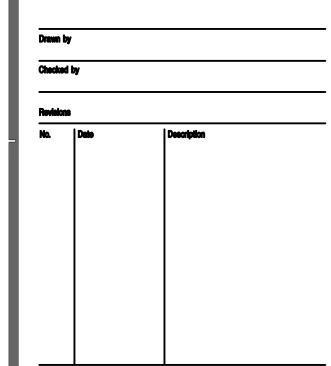
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(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL

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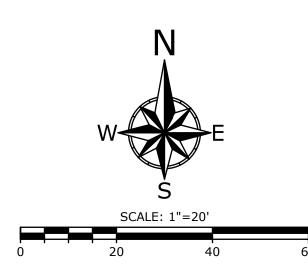
EROSION CONTROL PLAN

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SET - NOT FOR CONSTRUCTION

SET - NOT FOR CONSTRUCTION

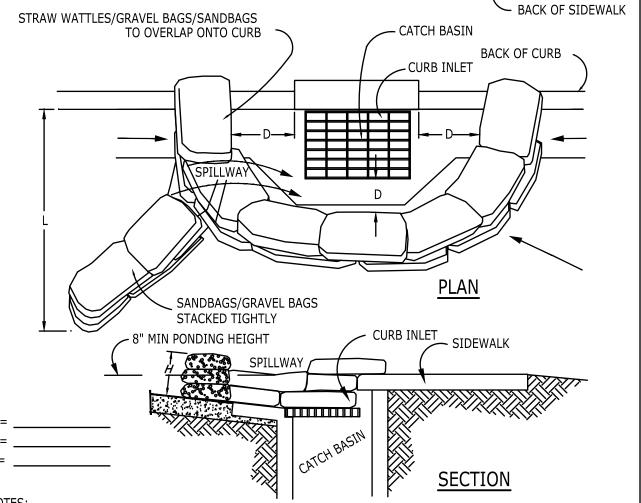


A SILT FENCE SE-1 SILT FENCE CONSTRUCTED ALONG LEVEL CONTOUR MAXIMUM __ POST @ MAXIMUM TRIBUTARY SLOPE LENGTH - 10' O.C. AREA .25 ACRE/100FT COMPACTED BACKFILL SILT FENCE -FENCE UP-SLOPE

L. CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.

- . SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY
- PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
- TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING
- AROUND THE FENCE. . LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
- 6. DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
- WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS.
- 8. REFER ALSO TO BMP SE-1 FROM CALIFORNIA STORMWATER B.M.P. HANDBOOK FOR CONSTRUCTION (LATEST EDITION).

B CATCH BASIN/INLET PROTECTION SE-10

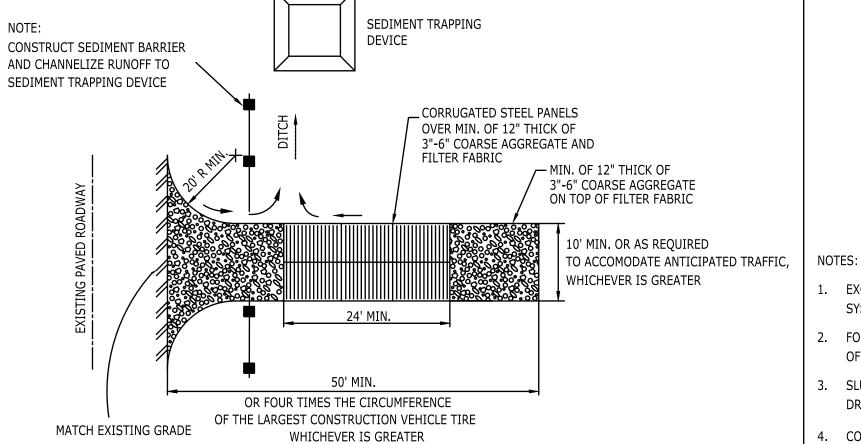


- CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED WHEREVER THERE IS A POTENTIAL OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
- INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS; EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED 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.

C STABILIZED CONSTRUCTION ENTRANCE TC-1



- 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.

- NOTES:
- 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

STREET MAINTENANCE SE-7

- 1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.



D CONCRETE WASTE MANAGEMENT WM-8

WASHOUT

- 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, DRIED, PICKED UP AND DISPOSED OF PROPERLY.
- CONCRETE WASHOUT AREA SHALL BE LINED WITH A MINIMUM 10 MIL. POLYETHYLENE SHEETING. REFER TO BMP #WM-8 FROM THE 2013 CALIFORNIA CONSTRUCTION BMP HANDBOOK

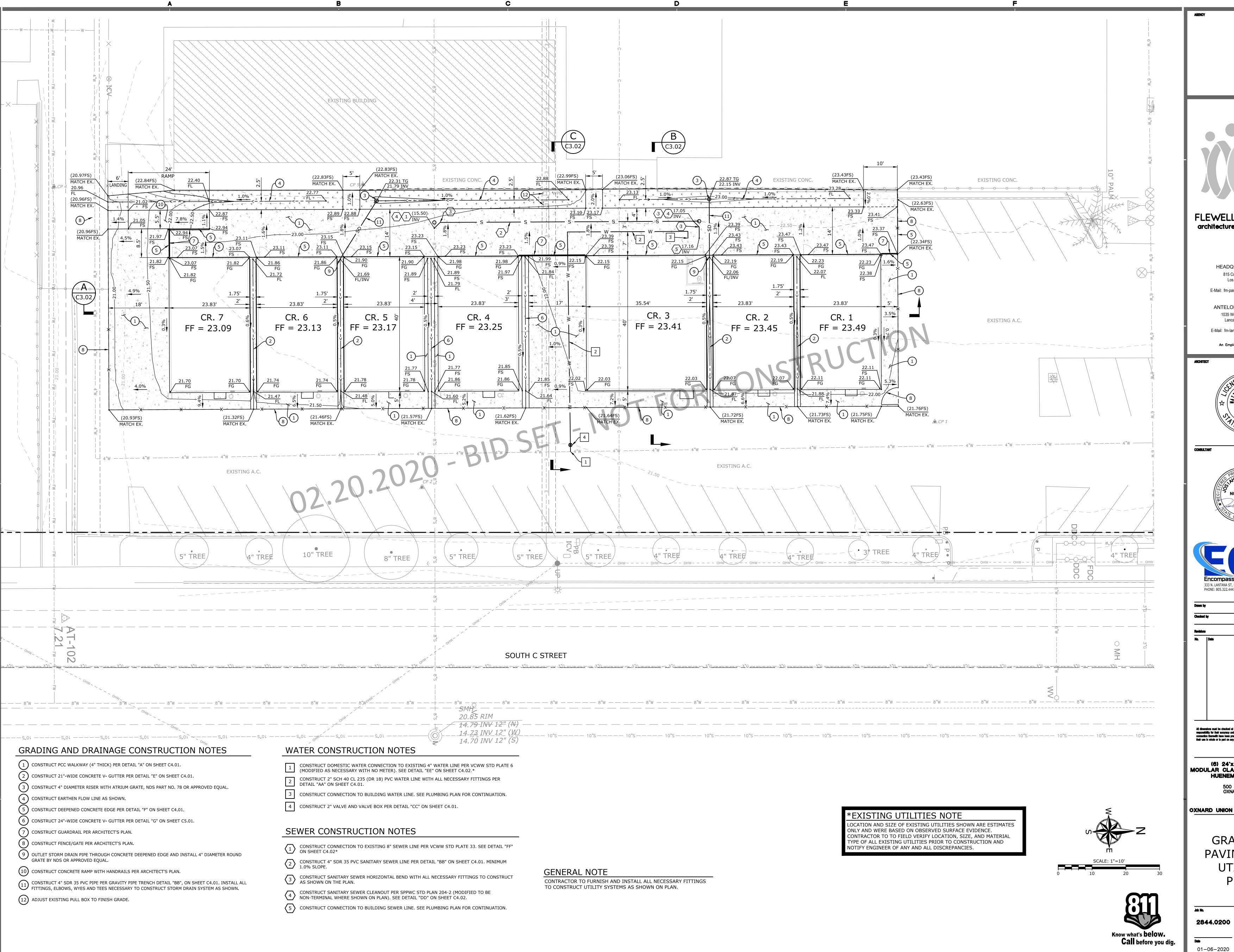
E MATERIAL STORAGE AND DELIVERY WM-1

APPLY BMP WM-1 FROM THE 2013 CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION AVAILABLE AT www.cabmphandbooks.com.

MINIMUM REQUIREMENTS FROM WM-1:

- 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 SHALL BE SURROUNDED WITH PROTECTIVE BERMS.
- MATERIALS SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS AND THE ORIGINAL PRODUCT LABELS SHOULD BE MAINTAINED IN PLACE IN A LEGIBLE CONDITION.
- 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 AND DURING RAIN OR WIND EVENTS.
- EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED ON PROPER MATERIAL DELIVERY AND STORAGE PRACTICES AND IN EMERGENCY SPILL CLEANUP PROCEDURES.





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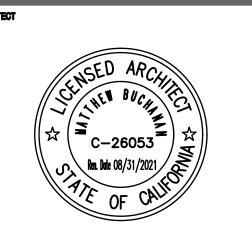


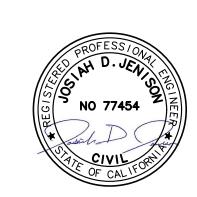
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> HEADQUARTERS OFFICE: 815 Colorado Blvd, Suite 200 Los Angeles, CA 90041 P 323.543.8300 E-Mail: fm-pasadena@flewelling-moody.com

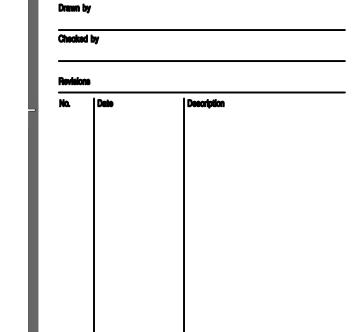
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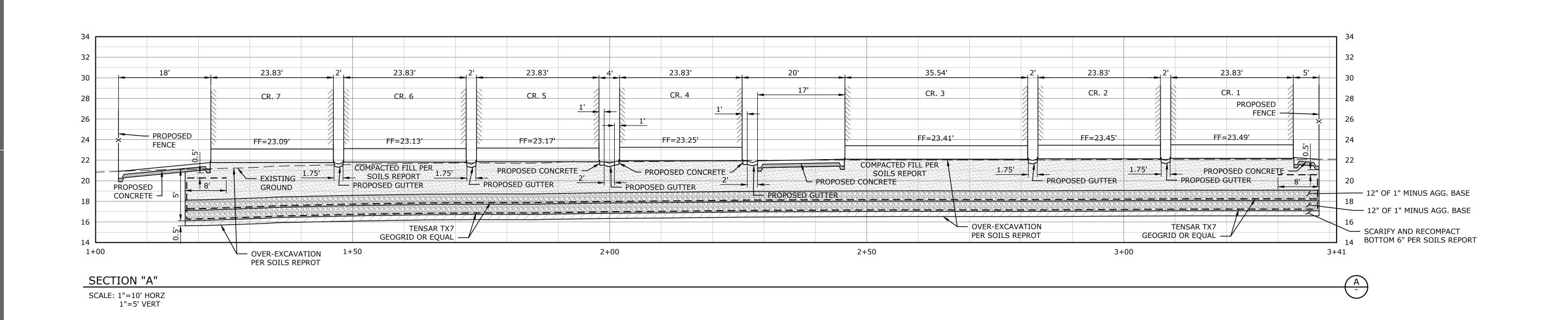
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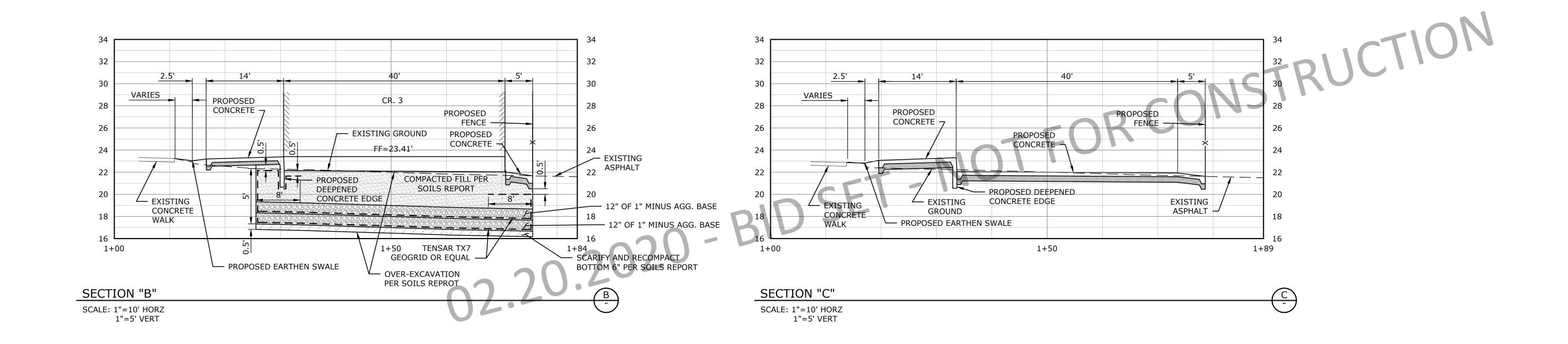
(6) 24'x40' + (1) 36'x40' Modular Classroom Buildings at Hueneme High School

GRADING, PAVING AND UTILITY PLAN

2844.0200

C3.01







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Checked by		
Revisions		

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(6) 24'x40' + (1) 36'x40' Modular Classroom Buildings at Hueneme High School 500 W. BARD ROAD OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

SITE SECTIONS

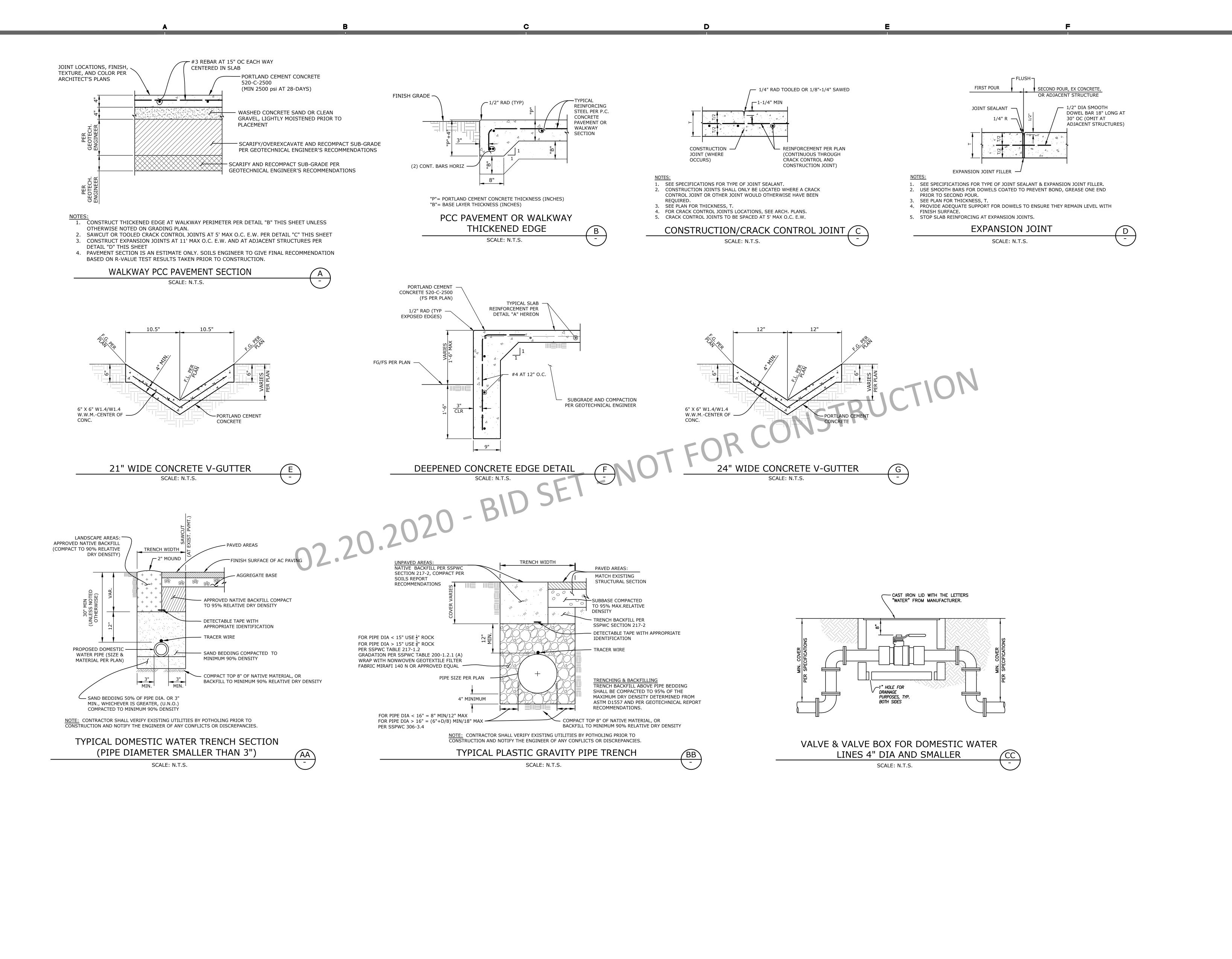
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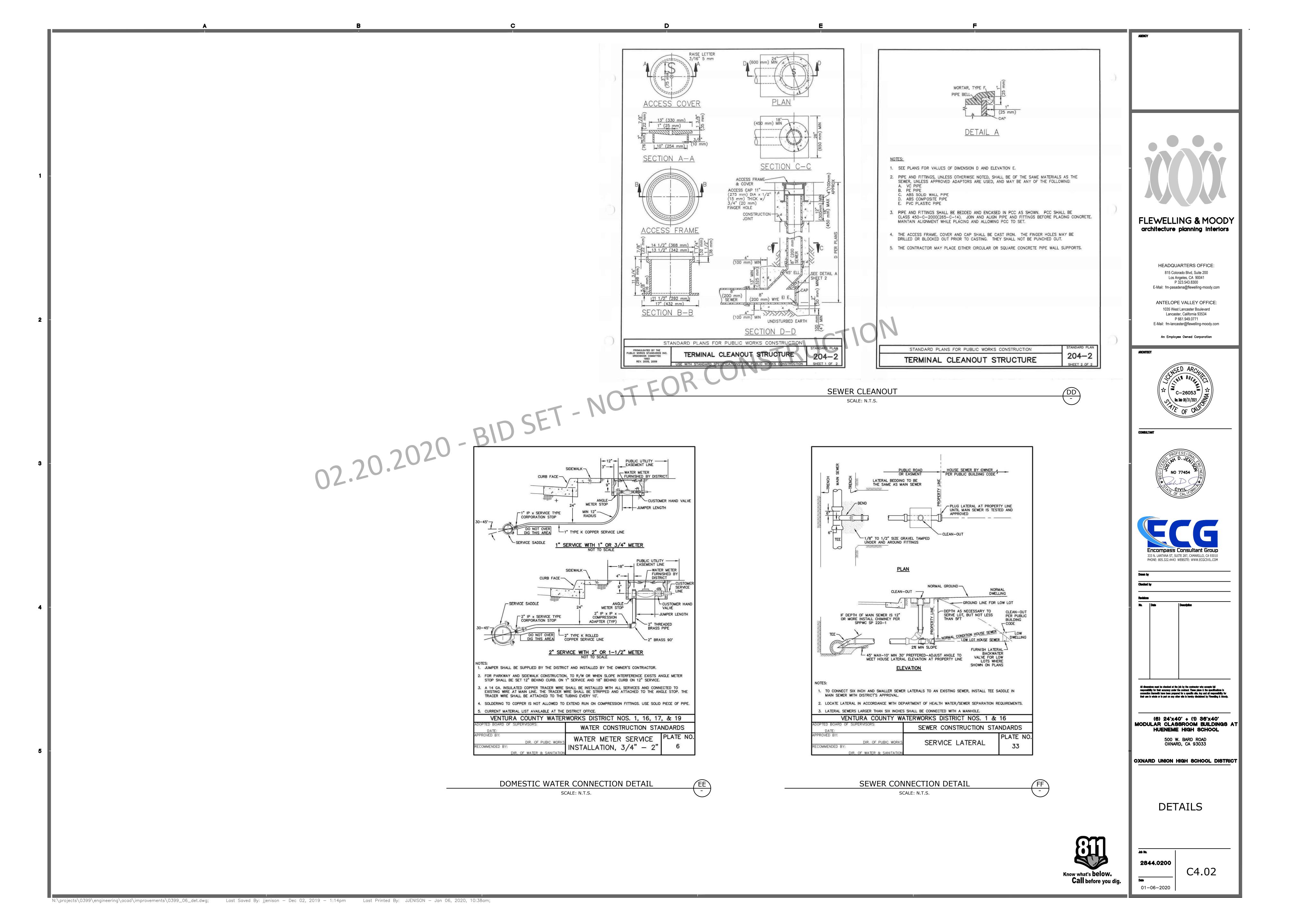


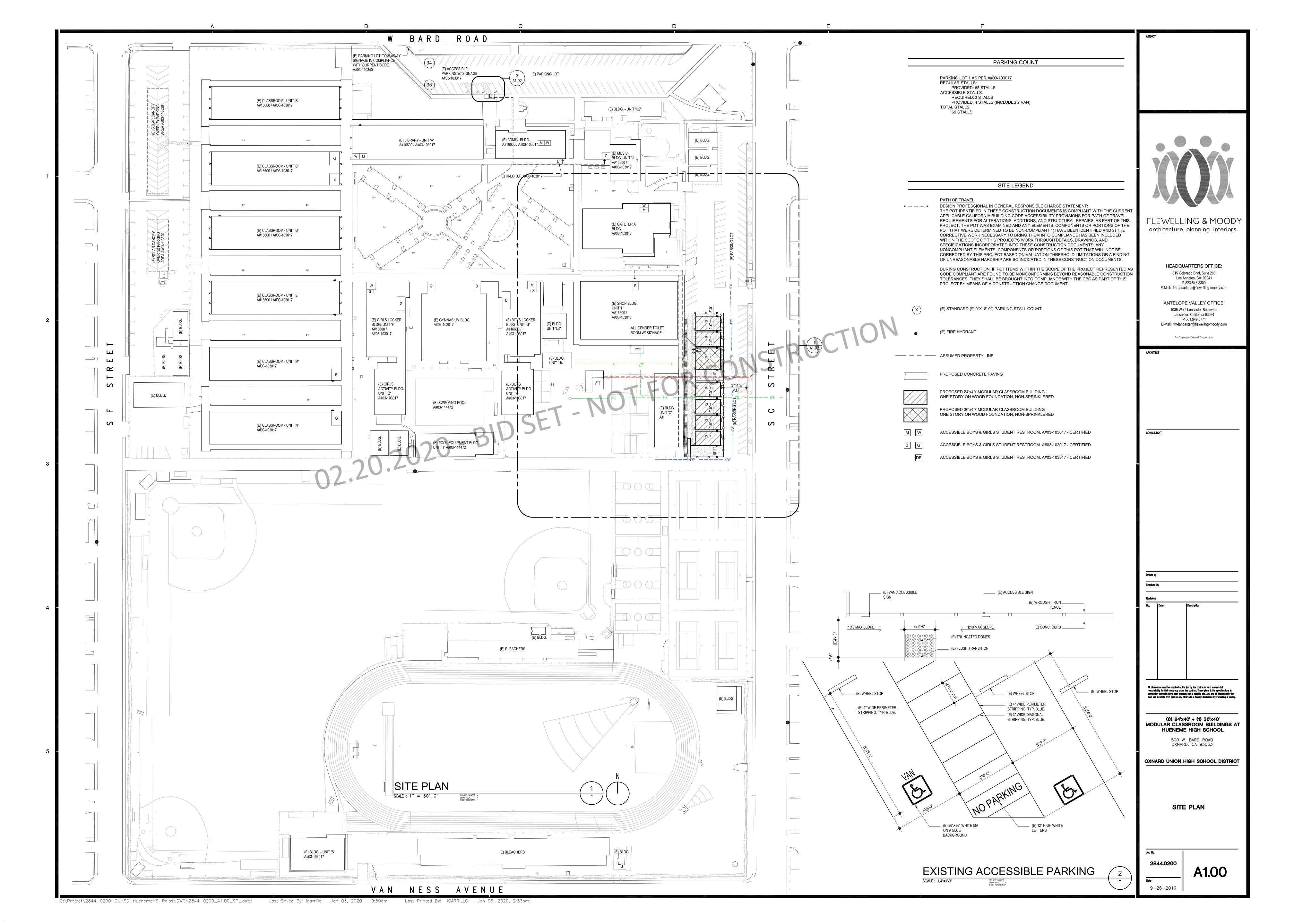
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Call before you dig.

01-06-2020





(E) A.C. PAVING ------ JOIN FLUSH, TYP. _ NOTE: ALL SUPPORT POSTS FOR EXISTING WALKWAY COVER SHALL REMAIN. PROTECT IN PLACE. A#04-118239 (S/N: P-19-1943 A/B) (E) BLDG. (E) BLDG. LINE OF WALKWAY, TYP. _ LINE OF WALKWAY, TYP. _ A#04-118239 (S/N: P-19-1944 A/B) (E) A.C. PAVING A#04-118918 (S/N: P-19-2143 A/B) JOIN FLUSH, TYP. __ r - - - - - - - -A#04-118239 (E) BLDG. (S/N: P-19-1945 A/B) (E) BLDG. (E) A.C. PAVING (E) A.C. PAVING A#04-118239 (S/N: P-19-1946 A/B) JOIN FLUSH, TYP. A#04-118239 (S/N: P-19-1947 A/B) A#04-118239 (S/N: P-19-1948 A/B) SEE CIVIL FOR FINISH (E) A.C. PAVING (E) A.C. PAVING ELEVATIONS. $\xrightarrow{\longrightarrow}\longrightarrow\longrightarrow\longrightarrow\longrightarrow\longrightarrow\longrightarrow$ $\longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow$

-**●**-UP

SITE DEMOLITION NOTES

1. KEYNOTES & DEMOLITION LEGEND SHOW THE GENERAL EXTENT OF DEMOLITION. G.C. SHALL REMOVE ALL ITEMS, WETHER SHOWN OR NOT, AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF THE NEW WORK.

2. G.C. SHALL COORDINATE ALL REQUIRED SCOPE OF WORK FOR ALL TRADES PRIOR TO COMMENCING WORK.

3. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES WITHIN AREA OF WORK PRIOR TO START OF CONSTRUCTION. DO NOT INTERRUPT SERVICE TO EXISTING BUILDING WITHOUT PRIOR WRITTEN DISTRICT APPROVAL.

4. STAGING AREAS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE. CONSTRUCTION STAGING SHALL NOT OBSTRUCT THE EXISTING FIRE ACCESS OR EXISTING FIRE HYDRANTS.

5. PROVIDE 6' HIGH SCREENED TEMPORARY FENCING AROUND PROJECT AREA. COORDINATE EXACT LOCATION WITH DISTRICT PRIOR TO START OF CONSTRUCTION.

6. REFER TO CIVIL DRAWINGS FOR EROSION CONTROL & EXTENTS OF GRADING.

-**●**-UP

7. SEE ELECTRICAL DRAWINGS FOR REQUIRED UTILITY ROUTING, PROVIDE NEAT SAWCUT AND TRENCHING AS REQUIRED TO ACCOMMODATE NEW UTILITIES. PATCH & REPAIR TO MATCH 8. FIRE PROTECTION DURING DEMOLITION SHALL BE IN ACCORDANCE WITH 2016 C.F.C. CHAPTER 7,

SITE DEMOLITION KEYNOTES

EXISTING LIGHT STANDARD TO REMAIN. PROTECT IN PLACE.

EXISTING RELOCATABLE BUILDING AND RAMP TO BE REMOVED IN ITS ENTIRETY. DISCONNECT AND REMOVE ALL UTILITIES SERVICING BUILDING, PROPERLY ABANDON IN PLACE OUTSIDE OF PROJECT AREA OF WORK.

EXISTING TUBE STEEL POSTS TO REMAIN. PROTECT IN PLACE.

EXISTING WROUGHT IRON FENCE & GATE TO REMAIN.

REMOVE PORTION OF (E) WROUGHT IRON FENCE & FOOTINGS AS REQUIRED TO ACCOMMODATE NEW WORK. INFILL VOID AND RECOMPACT TO 90% R.D.

REMOVE (E) CONCRETE RAMP, AND METAL RAILINGS IN THEIR ENTIRETY.

REMOVE (E) RAMP IN ITS ENTIRETY AS SHOWN.

REMOVE (E) LIGHT STANDARD & FOOTING TO BE REMOVED IN ITS ENTIRETY. INFILL VOID WITH SUITABLE SOIL & RE-COMPACT TO 90% R.D. PROPERLY CAP & ABANDON CONDUITS

REMOVE (E) WROUGHT IRON FENCE PANELS, EXISTING TUBE STEEL POSTS TO REMAIN.

REMOVE (E) CONCRETE CURB.

SITE DEMOLITION LEGEND

PORTION OF (E) A.C. PAVING TO BE REMOVE IN ITS ENTIRETY TO ACCOMMODATE NEW

———— ITEM TO BE REMOVED IN ITS ENTIRETY

SITE RECONSTRUCTION NOTES

1. REFER TO A1.00 FOR PATH OF TRAVEL.

2. FOR BUILDING SITE LAYOUT DIMENSIONS REFER TO CIVIL DRAWINGS. 3. FOR FINISH ELEVATIONS REFER TO CIVIL DRAWINGS.

4. PROVIDE CONCRETE CONTROL JOINTS AT A MAXIMUM OF 10'-0" O.C. 5. G.C. TO COORDINATE EXACT LOCATION OF UNDER FLOOR VENTS & ACCESS WITH

MANUFACTURER DRAWINGS. ALL GRATES SHALL BE HEEL-PROOF GRATES WITH A MAX. OPENING

6. ADJUST ALL EXISTING UTILITY BOXES, VALVE BOXES, CLEANOUTS, ETC. TO NEW FINISH GRADE.

SITE RECONSTRUCTION KEYNOTES

PROVIDE 1-1/2" Ø RAIL, PAINT. TYP.

PROVIDE CONCRETE GUTTER AS PER CIVIL SHEET C3.01.

SITE RECONSTRUCTION LEGEND

MEDIUM BROOM CONCRETE FINISH. SEE CIVIL PLANS.

COMPACTED DECOMPOSED GRANITE. SEE CIVIL PLANS.

PROVIDE 6' WROUGHT IRON FENCE & GATE. SEE $\begin{pmatrix} 8 & 9 \\ A1.03 & A1.03 \end{pmatrix}$

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their use in whole or in part on any other site is hereby disclaimed by Flewelling 8

(6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT **HUENEME HIGH SCHOOL**

500 W. BARD ROAD OXNARD, CA 93033

OXNARD UNION HIGH SCHOOL DISTRICT

ENLARGED PARTIAL SITE DEMOLITION AND RECONSTRUCTION PLANS

A1.01

2844.0200

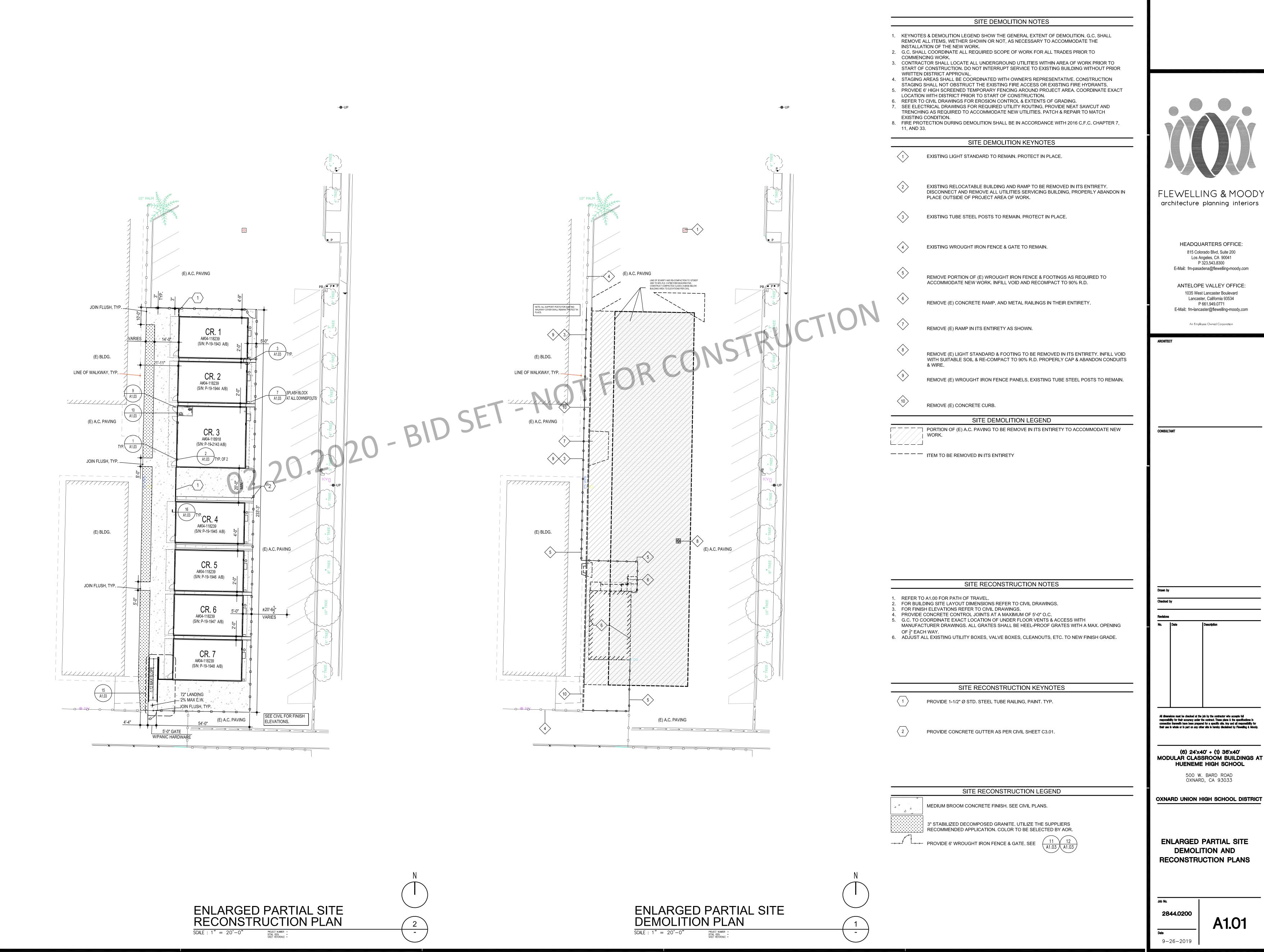
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ENLARGED PARTIAL SITE RECONSTRUCTION PLAN SCALE: 1" = 20'-0"

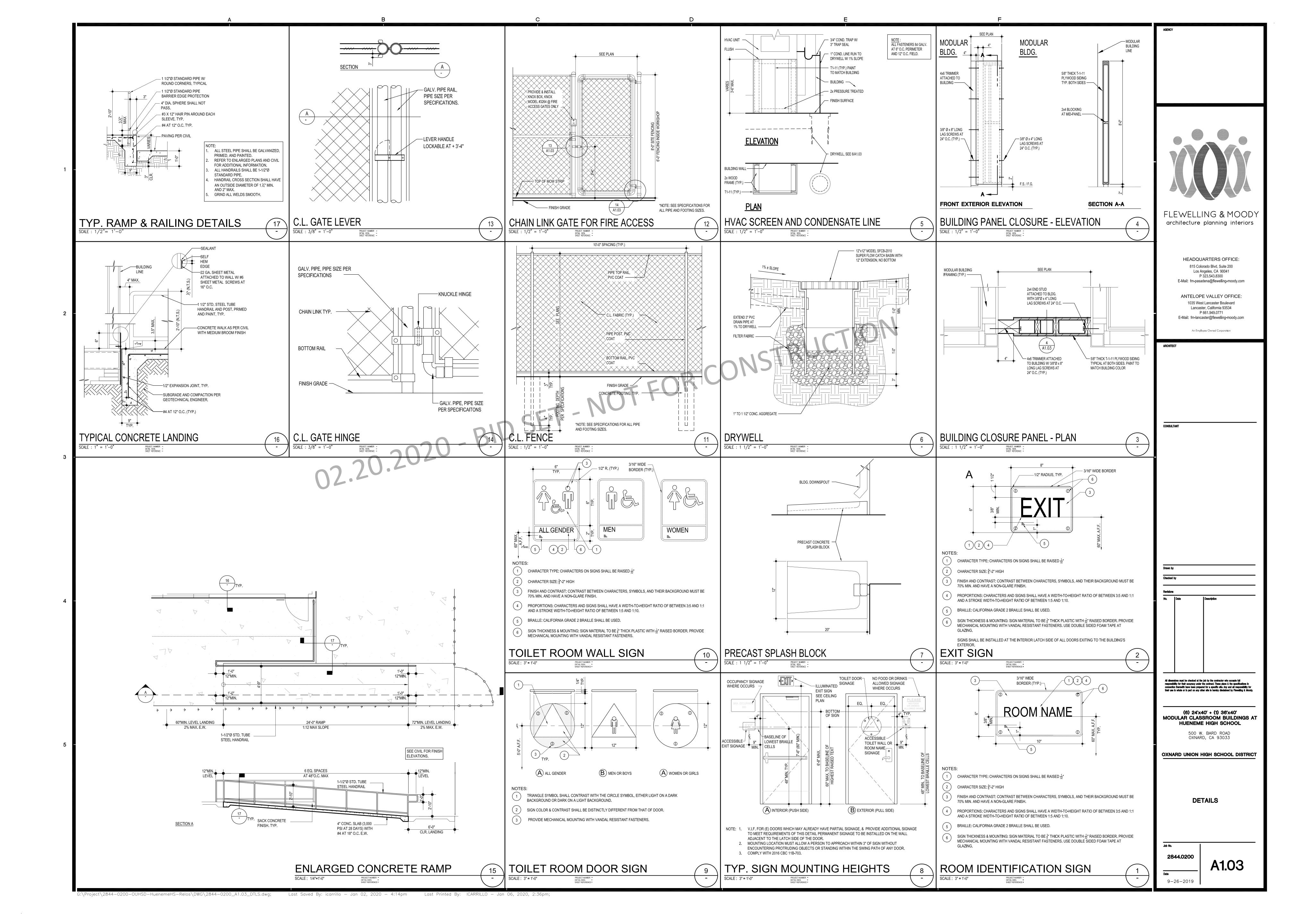
PROJECT NUMBER = DETAIL IDEN. = SHEET REFERENCE =

ENLARGED PARTIAL SITE DEMOLITION PLAN

SCALE : 1" = 20'-0"



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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. ADA COMPLIANT 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.
- J. 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.
- 02.20.2020 BID SET NOT FOR CONSTRU 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.

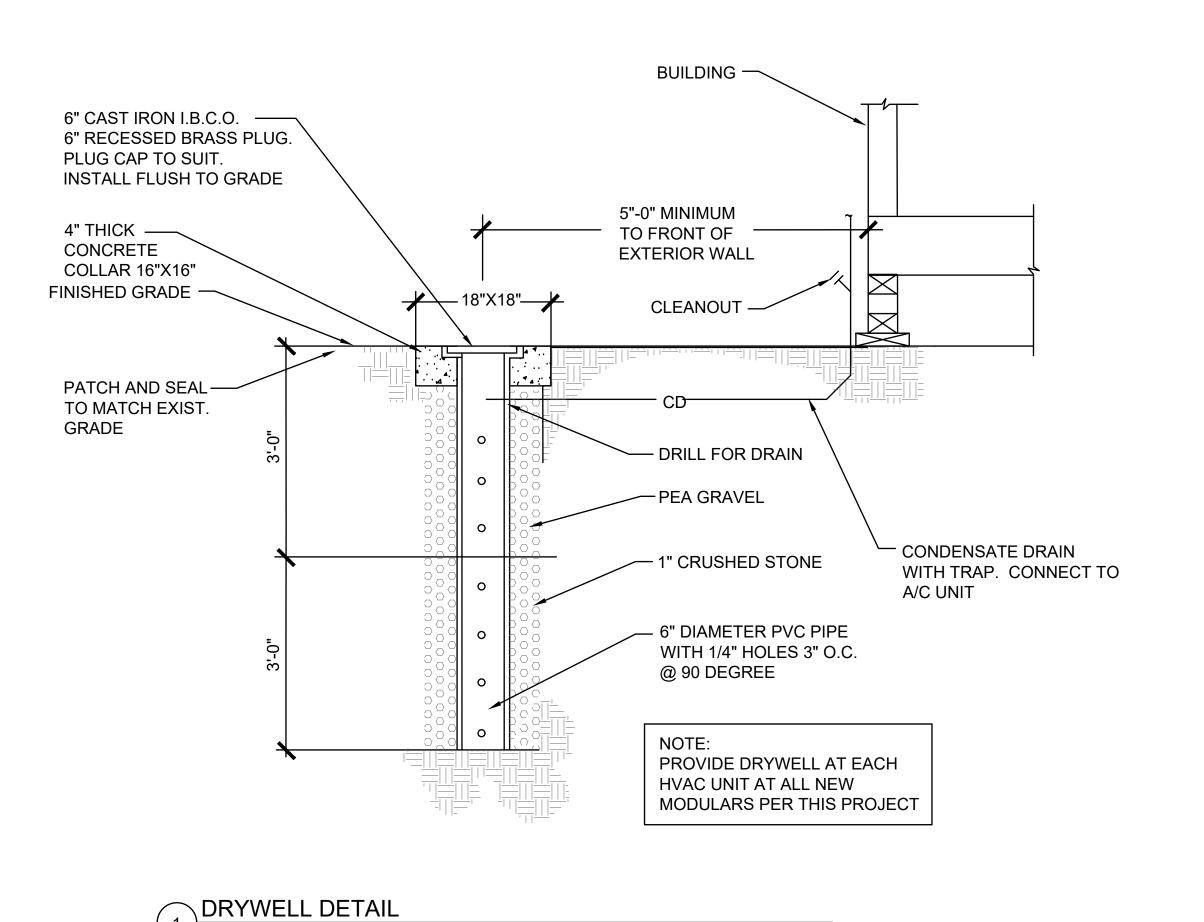
PIPE AND FITTING MATERIALS					
TYPE	MATERIAL	FITTINGS	LOCATION		
CD	SCHEDULE 40 PVC	SCHEDULE 40 PVC	ABOVE GRADE		
	SCHEDULE 40 PVC	SCHEDULE 40 PVC	BELOW GRADE		
CW	POLYPROPYLENE BY 'PESTAN NORTH AMERICA'	POLYPROPYLENE PLASTIC FITTINGS JOINED BY HEAT FUSION. ASTM F2389 CSA B137.11 U/G 18 AWG TRACER WIRE	ABOVE AND BELOW GRADE. PAINT FOR UV PROTECTION ABOVE GRADE		
WASTE	NO-HUB CAST IRON	NO-HUB CAST IRON	ABOVE GRADE		
WASTE	ABS ASTM D3965, NSF 14, ASTM F628, D2661	ABS ASTM D3965, NSF 14, ASTM F628, D2661	BELOW GRADE		
VENT	CPVC SCHEDULE 40 PIPE PER ASTM D1784, AND UL723 (ASTM E84) MFR.: SPEARS, CORZAN, CHARLOTTE, OR EQUAL	CPVC SCHEDULE 40 FITTINGS PER ASTM D1784, AND UL723 (ASTM E84) MFR.: SPEARS, CORZAN, CHARLOTTE, OR EQUAL	ABOVE GRADE BELOW GRADE		

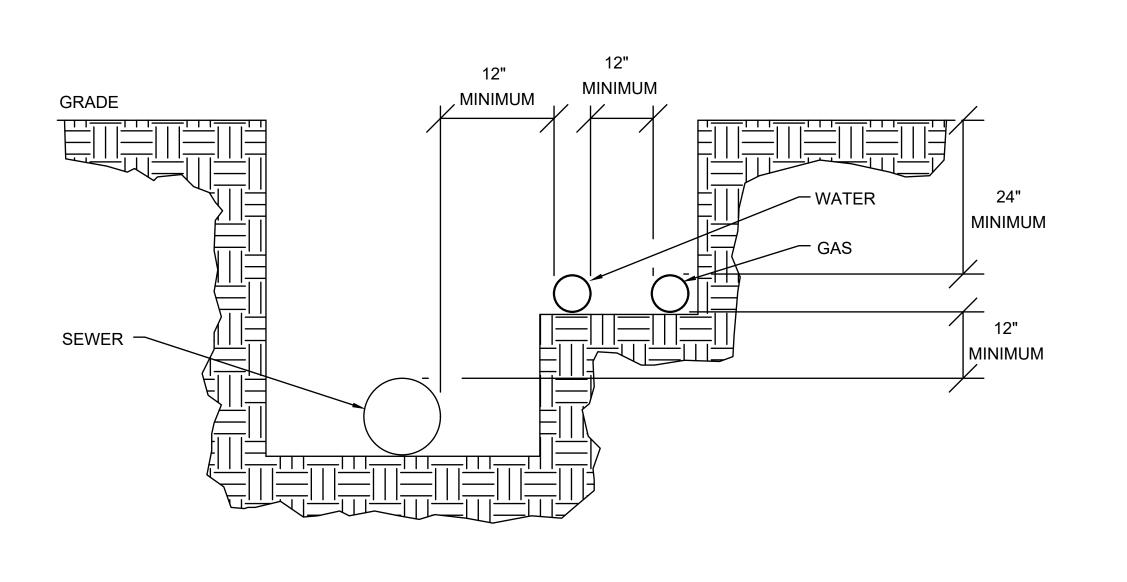
PLUMBING LEGEND		
SYMBOL	ABBR.	DESCRIPTION
	W	WASTE PIPING ABOVE GRADE
	W	WASTE PIPING BELOW GRADE
	V	VENT PIPING ABOVE GRADE
v	V	VENT PIPING BELOW GRADE
	CW	DOMESTIC COLD WATER PIPING BELOW GRADE
ES	ES	EXISTING WASTE LINE BELOW GRADE
ECW	ECW	EXISTING COLD WATER LINE BELOW GRADE
CD	CD	CONDENSATE DRAIN
	-	DROP IN PIPE
O	-	RISE IN PIPE
——	-	DIRECTION OF FLOW
+	НВ	HOSE BIBB
	wco	WALL CLEANOUT
——	U	UNION
•	BV	BALL VALVE
igorplus	POD	POINT OF DISCONNECT
•	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
	YB	CAPPED SHUT OFF VALVE IN YARD BOX
*		

PLUMBING SHEET INDEX PLUMBING FRONT SHEET

PLUMBING SITE PLAN

PLUMBING PARTIAL RECONSTRUCTION PLAN





2 UTILITY TRENCH DETAIL
SCALE: NONE

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MEP CONSULTING ENGINEERS
Job No. 19-245 CAMARILLO OFFICE
400 W VENTURA BLVD, STE 240
CAMARILLO, CA 39010
TEL: (08)3967-4001
TEL: (08)3967-4001
TEL: (08)368-8700
TEL: (08)368-88700
TEL: (38)368-88700 Drawn by JA 01-09-2020 DSA SUBMITTAL 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.

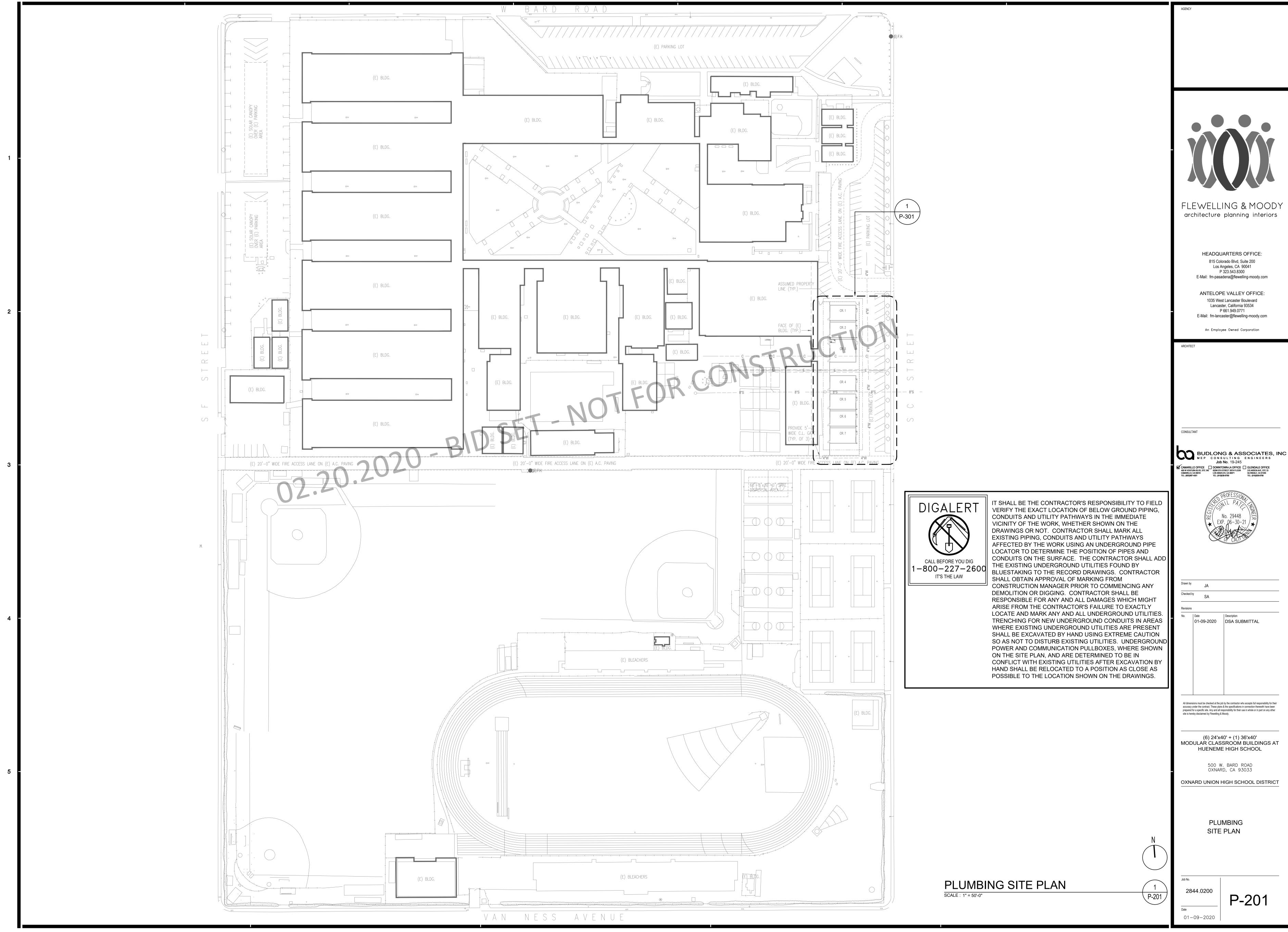
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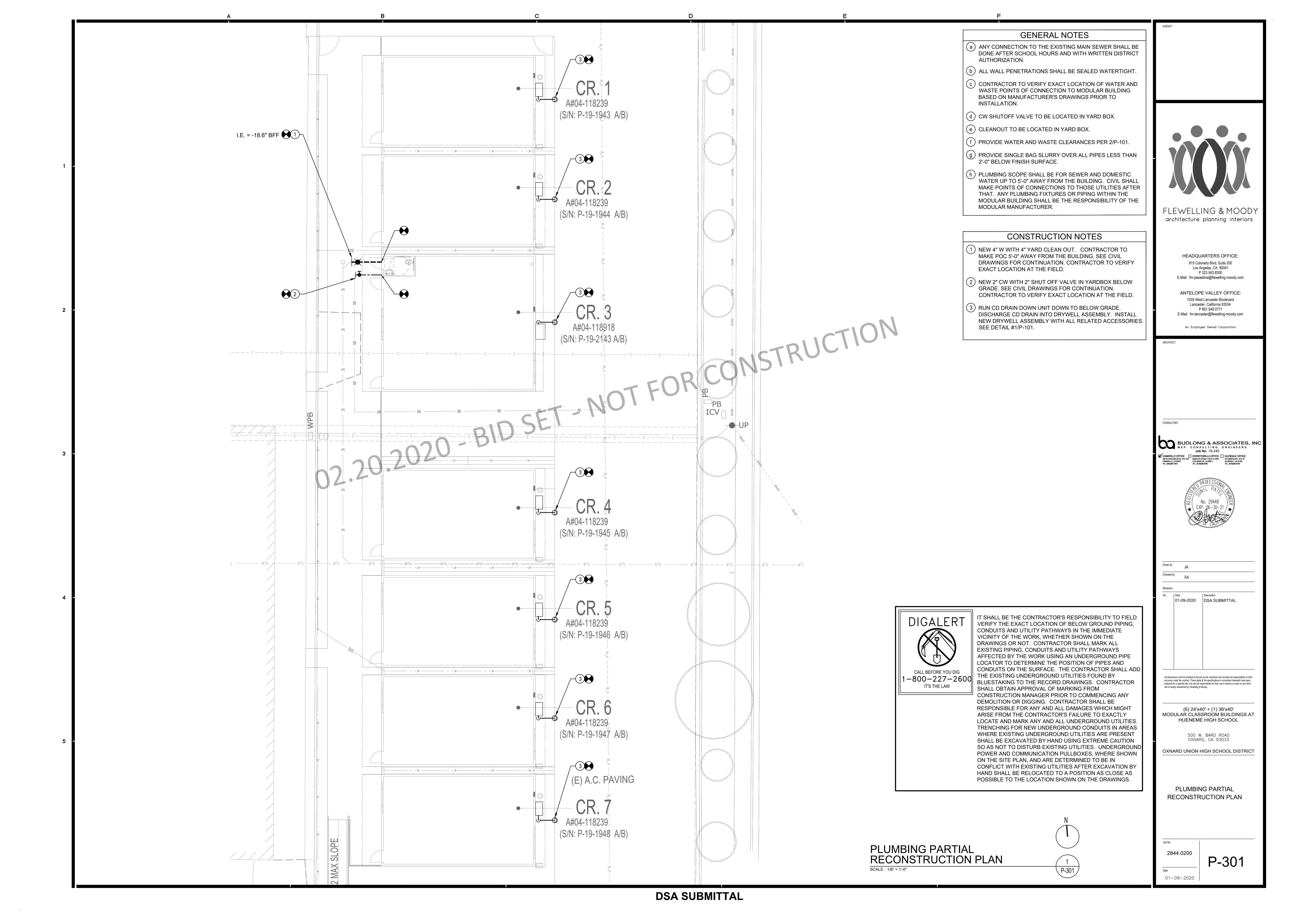
500 W. BARD ROAD OXNARD, CA 93033 OXNARD UNION HIGH SCHOOL DISTRICT

PLUMBING FRONT SHEET

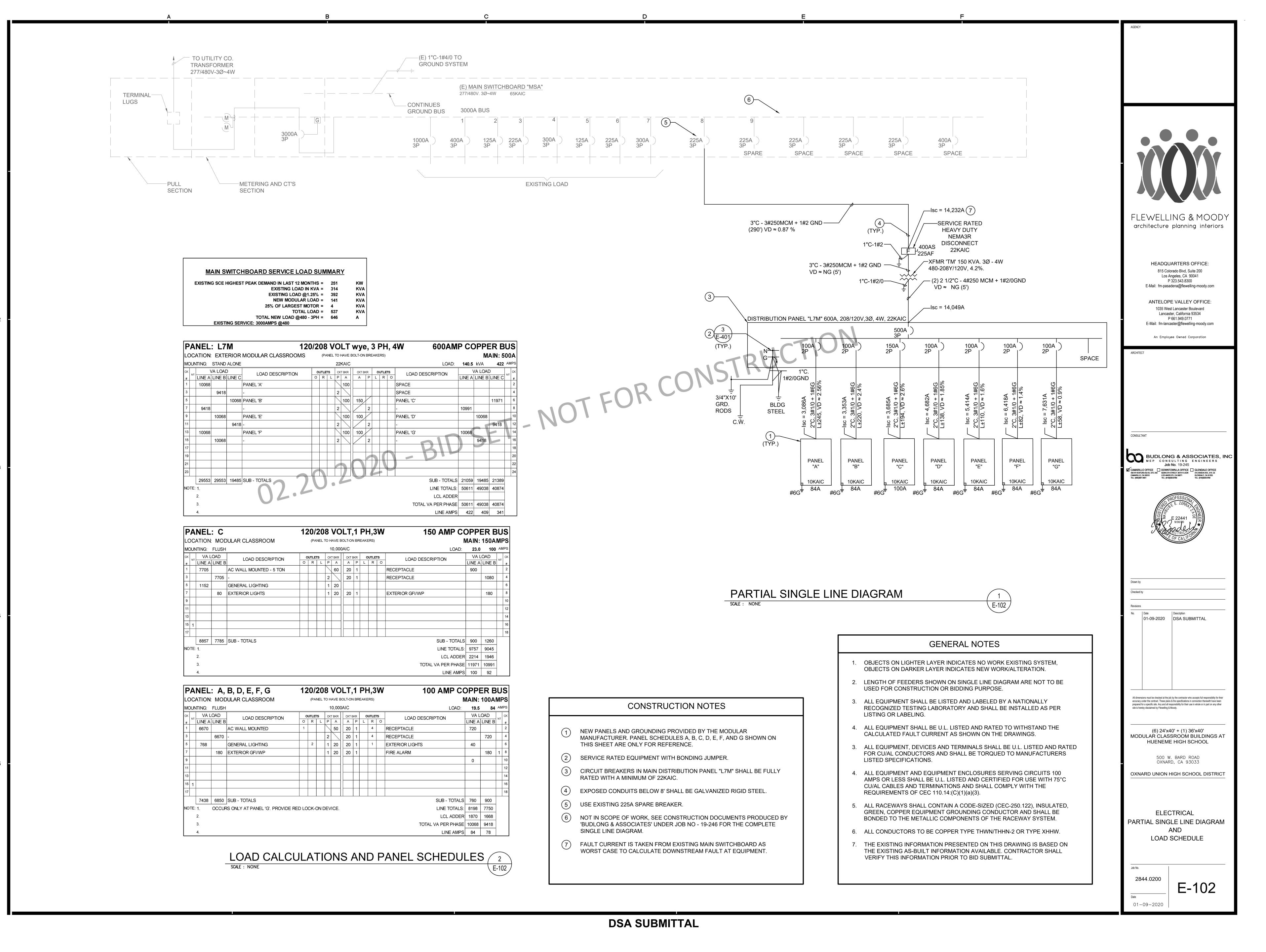
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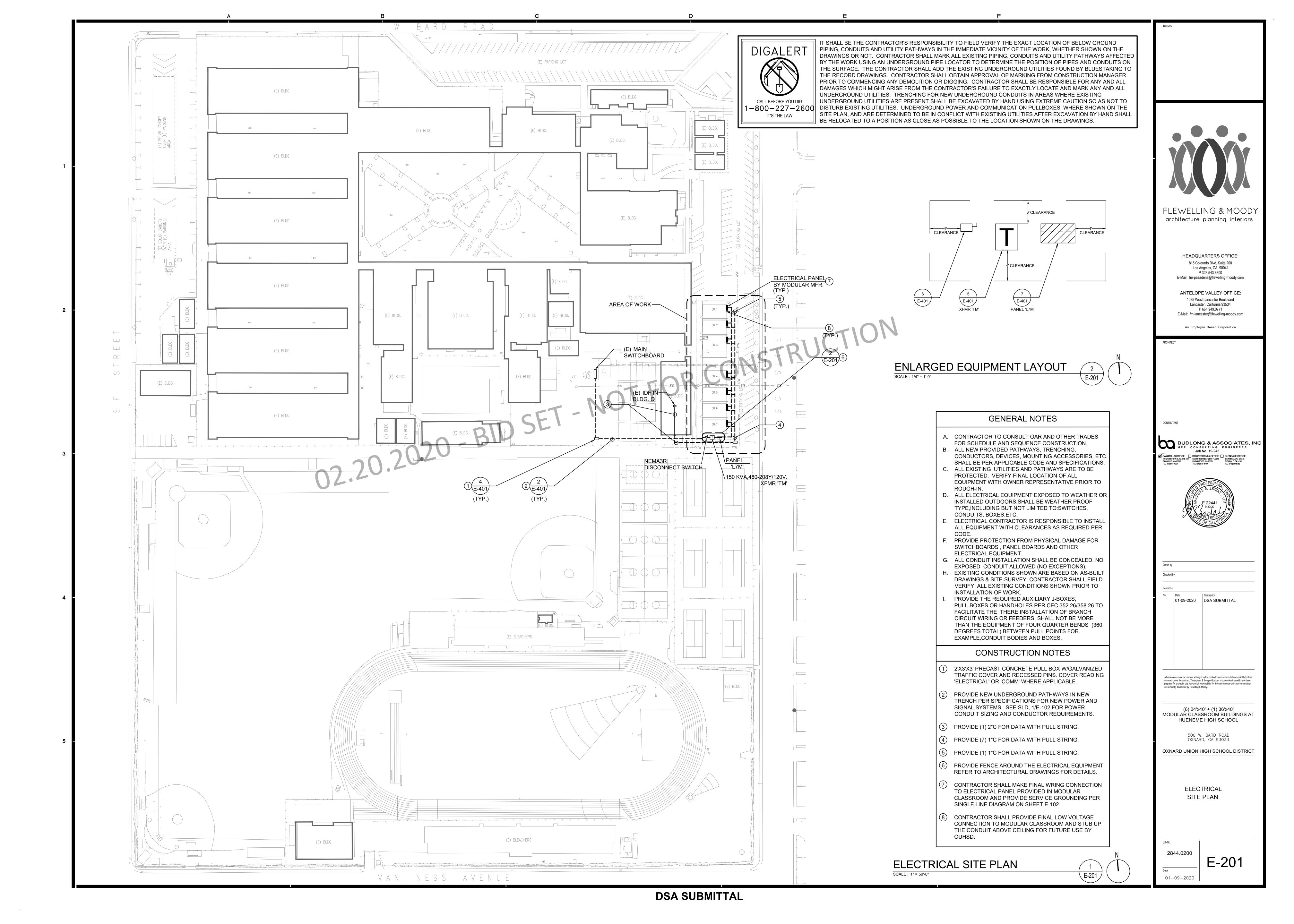
P-101

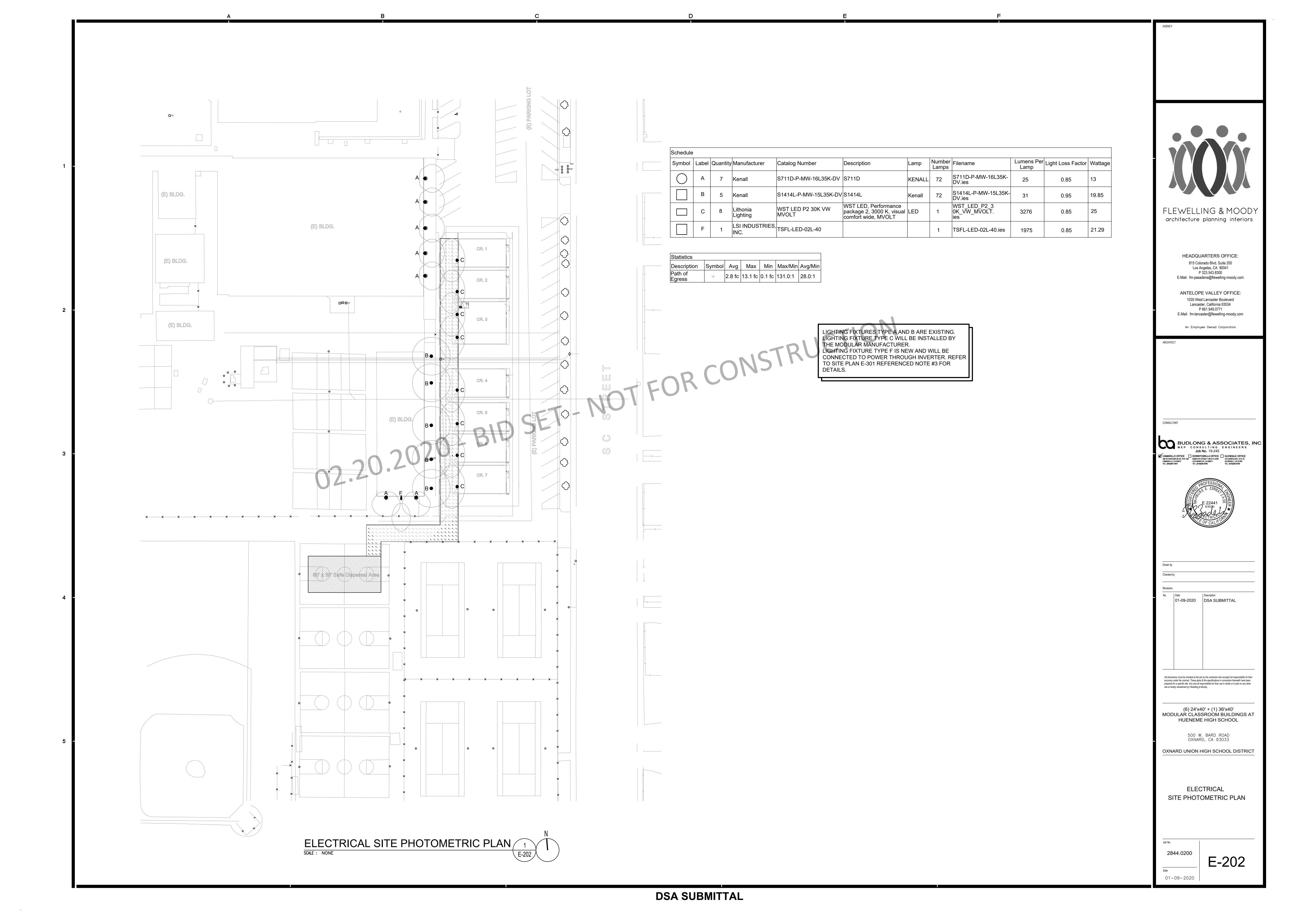


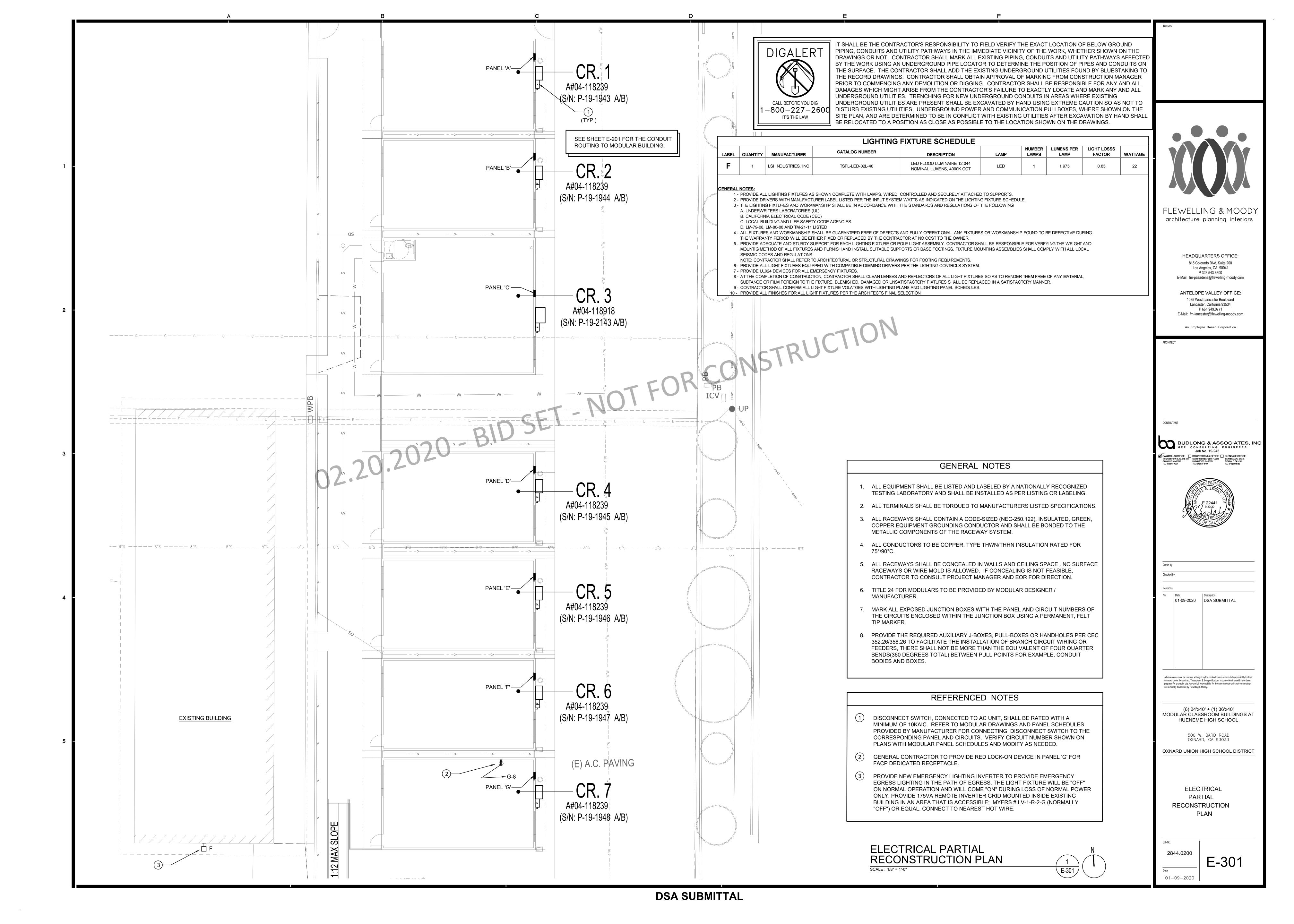


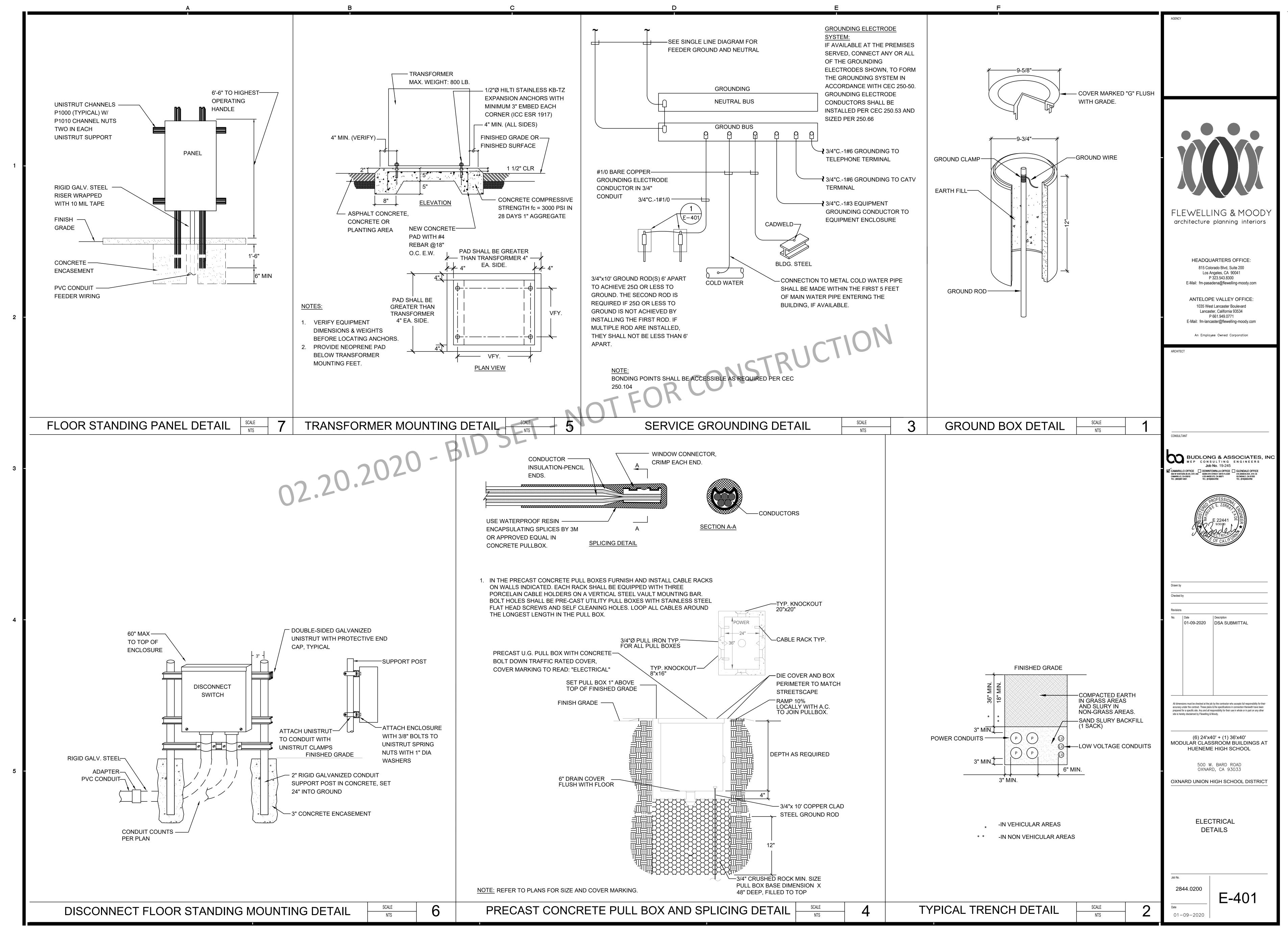
A B	C D	STANDARD ABBREVIATIONS	F SYMBOLLIST	AGENCY
	ENERAL NOTES	STANDARD ABBREVIATIONS	SYMBOL LIST (NOT ALL SYMBOLS ARE USED ON PLANS)	_
1. CONSULT WITH THE OWNER AND STRUCTURAL ENGINEER OF RECORD BEFORE STARTING WORK. 2. NO CONDUITS, SUPPORTS AND JUNCTION BOXES SHALL BE PAINTED TO MATCH THE PREDOMINANT COLOR OF THE BUILDING, AS APPROVED BY STRUCTURAL EOR AND ELECTRICAL EOR. 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 PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, DITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRENCHES OUTSIDE OF THE BARRICADE INST 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 TOGETHER FON 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 DIRECTED OTHERWISE BY THE STRUCTURAL EOR. ALL SAW CUTS OF EXISTING STRUCTURAL MEMBERS SHALL BE APPROVED BY STRUCTURAL EOR. 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 PRAVINGS WERE PREPARED. THE ENCINEER 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	 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 AND/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 INFORMATION 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 ORIGINAL SPECIFIED ITEM(S). SUBMITTALS WITHOUT THE SPECIFIED CUT SHEETS WILL BE REJECTED AS INCOMPLETE. "PROVIDE" SHALL BE DEFINED AS: FURNISH AND INSTALL. ALL MATERIALS, EQUIPMENT, CONDUIT AND WIRRING 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. WIRRING 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 SUGCONTRACTOR BEFORE THE 	A OR AMP 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 E EXISTING EOR ENGINEER OF RECORD ER EXISTING, RELOCATED EX EXISTING, REMOVED F.O. FIBER OPTIC GFI GROUND FAULT INTERRUPTER J.BOX JUNCTION BOX NG NEGLIGIBLE N.I.C. NOT IN CONTRACT OAR OWNER AUTHORIZED REPRESENTATIVE PA PUBLIC ADDRESS PH OR Ø REMOTE SECURITY PANEL	POWER SYSTEM JUNCTION BOX: SURFACE MOUNTED OR INSIDE WALL SURFACE MOUNTED PANELBOARD FLUSH MOUNTED PANELBOARD DISTRIBUTION PANELBOARD T TRANSFORMER UNDERGROUND POWER PULLBOX NOTE REFERENCE TAG. CONDUIT TURNED UP CONDUIT TURNED DOWN ET DISCONNECT SWITCH, "F" INDICATES FUSED A-1,3 BRANCH CIRCUIT HOME RUN TO PANELBOARD. LETTER AND NUMBER NOTATION IDENTIFY PANEL & CIRCUIT NUMBERS	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
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 RACEWAY SYSTEM. 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. 11. COORDINATION: A.IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE		SLC SIGNALING LINE CIRCUIT DWP,LADWP LOS ANGELES DEPT. OF WATER & POWER STC SECURITY TERMINAL CABINET SPS SECURITY POWER SUPPLY 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		ANTELOPE VALLEY OFFICE: 1035 West Lancaster Boulevard Lancaster, California 93534 P 661.949.0771 E-Mail: fm-lancaster@flewelling-moody.com An Employee Owned Corporation ARCHITECT
OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN. 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 AS "PROVIDED BY OTHERS". 14. DEMOLITION AND/OR REMOVAL OF ELECTRICAL EQUIPMENT SHALL BE THE 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.	 34. PROVIDE ELECTRICAL PANELS WITH TYPEWRITTEN "AS-BUILT" PANEL SCHEDULE. PANEL SCHEDULE SHALL INCLUDE LOCATION, QUANTITY AND TYPE OF DEVICES SERVED. 35. PROVIDE ELECTRICAL PANELS WITH ENGRAVED NAMEPLATE ON OUTSIDE OF PANEL ABOVE DOOR OPENING. 36. SUPPORT CONDUIT 2-1/2 INCH TRADE SIZE OR SMALLER WITH U.L. LISTED CLAMPS AND HANGERS IN ACCORDANCE WITH SMACNA STANDARDS. 37. THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. 2016 CHAPTER 16 AND ASCE 7-10, CHAPTER 13. 	DEMOLITION GENERAL NOTES	CONDUIT/CONDUCTOR TYPE	BUDLONG & ASSOCIATES, INC MEP CONSULTING ENGINEERS Job No. 19-245 CAMARILLO OFFICE DOWNTOWN-LA OFFICE SIM FLOOR CAMARILLO, CA 93010 TEL: (818)638-8780 DOWNTOWN-LA OFFICE SIM FLOOR LOS ANGELES, CA 90071 TEL: (818)638-8780 ROFESSIONATION RECORDANCE CA 91203 TEL: (818)638-8780
 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 FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION. 18. EXPOSED CONDUITS SHALL BE INSTALLED ALONG MECHANICAL PIPES. INSIDE BUILDING THE EXPOSED CONDUITS UP TO 8'-0" SHALL BE RIGID STEEL AND ABOVE 	38. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCTS, WIREWAYS AND CABLE TRAYS SHALL BE IN ACCORDANCE WITH THE "GUIDELINE FOR 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 FIELD INSPECTOR.	 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION OF ANY WORK. 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. AS A RESULT OF ANY DEMOLITION, ALLOW NO 'ORPHANED' OR ISOLATED DEVICES OUTSIDE OF WORK SCOPE AREA TO REMAIN DISCONNECTED. PROVIDE ANY NECESSARY NEW TERMINATIONS, CONDUCTORS, CONNECTIONS, CONDUIT, ETC. 	 ────────────────────────────────────	Drawn by Checked by
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	PROVIDE POWER TO 7 MODULAR BUILDINGS.		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.	No. Date Description DSA SUBMITTAL
LOCATION AND LAYOUT WITH OTHER WORK. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A $\frac{1}{4}$ "=1'-0" SCALED DRAWING OF ELECTRICAL EQUIPMENT ROOMS SHOWING LOCATION AND CLEARANCES OF SUBMITTED EQUIPMENT FOR REVIEW	APPLICABLE CODES	SEISMIC NOTES	ELECTRICAL SHEET INDEX	
AND APPROVAL PRIOR TO ORDERING OF ELECTRICAL EQUIPMENT. 20. PROVIDE SUPPORTS AND SEISMIC BRACING FOR ALL EQUIPMENT TO COMPLY WITH 2019 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." 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.	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 2016 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE, CHAPTER 16A. 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.	NAME SHEETTITLE E-101 ELECTRICAL FRONT SHEET E-102 ELECTRICAL PARTIAL SINGLE LINE DIAGRAM AND LOAD SCHEDULE E-201 ELECTRICAL SITE PLAN E-202 ELECTRICAL SITE PHOTOMETRIC PLAN E-301 ELECTRICAL PARTIAL RECONSTRUCTION PLAN E-401 ELECTRICAL DETAILS	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. (6) 24'x40' + (1) 36'x40' MODULAR CLASSROOM BUILDINGS AT HUENEME HIGH SCHOOL 500 W. BARD ROAD OXNARD, CA 93033 OXNARD UNION HIGH SCHOOL DISTRICT
			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 INVESTIGATED AND IS ADEQUATE FOR THE ADDITIONAL LOAD. C. SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TEST.	Job No. 2844.0200 Date 01-09-2020 ELECTRICAL FRONT SHEET E-101











APPLICABLE CODES CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS PART 1 2019CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R. PART 2 2019 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R (2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA PART 3 2019 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2014 NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA) PART 4 2019 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO). PART 5 2019 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO). PART 6 2019 CALIFORNIA ENERGY CODE (CEC), TITLE 24 C.C.R. PART 9 2019 CALIFORNIA FIRE CODE (CFC), TITLE 24 (2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL). PART 10 2019 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS). PART 11 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R. PART 12 2019 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R. PARTIAL LIST OF APPLICABLE STANDARDS: 2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35. NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) 2019 EDITION NFPA 72, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2019 EDITION (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2019 EDITION NFPA 17a WET CHEMICAL EXTINGUISHING SYSTEMS 2019 EDITION TITLE 19 C.C.R. SFM REGULATIONS UL 464 AUDIBLE SIGNAL APPLIANCES 2019 EDITION

	ELECTRICAL SYMBOL LIST (NOT ALL SYMBOLS ARE USED ON PLANS)
0	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

2019 EDITION

UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

	AXIMUI T NI				OF TU			
			(CONDUCTO	ORS			
Metric Designator (Trade Size)								
TYPE	CONDUCTO SIZE (AWG/kcm	,	16 (1/2)	21 (3/4)	27 (1)	35 (1 1/4)	41 (1 1/2)	53 (2)
	14		12	22	35	61	84	13
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 F	RACEW	AY WIRI	E FILL CAP	ACITIES FOR			
	NUMBER OF CONDUCTORS (40% FILL)							
l l	RE SIZE HN/THWN Incl		O.D.	(mm)	WITHOUT WITH 2427 DEVICES RECEPTAGE			
14 /	AWG	0.111		(2.8)	57		12	
	i					1		

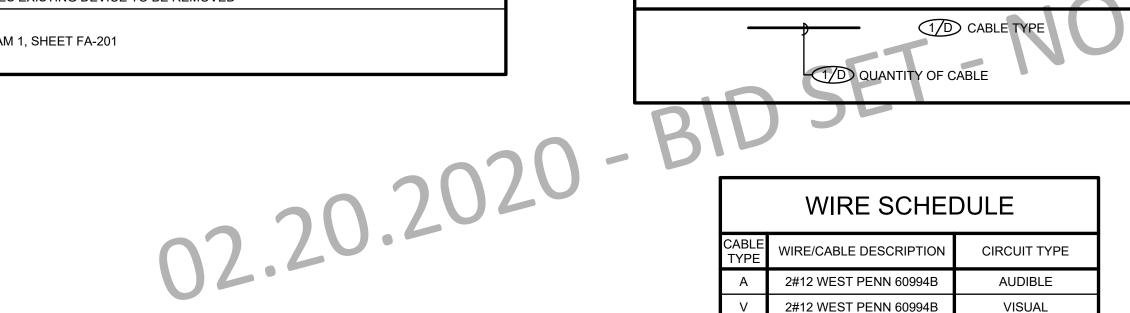
DEVICE DE	SIGNATION	
INITIATING	NOTIFICATION	
L3- 03 DEVICE ADDRESS LOOP NUMBER	A1 - 2 V1 - 2 DEVICE NUMBER NOTIFICATION CIRCUIT	CTRUCTION
CABLE CALL	OUT NOTES 1/D CABLE TYPE	FOR CONST.

(3.3)

(4.2)

0.164

10 AWG



WIRE SCHEDULE								
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						
N	2#18 WEST PENN D980	INDOOR NETWORK						
N1	2#18 WEST PENN AQ224	OUTDOOR NETWORK						
М	2#18 WEST PENN D975	ANNUNCIATOR						

		FIRE ALA	RM SYMBOL LI	ST		
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	
HD	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. S ✓	EXTERIOR SPEAKER	GENTEX	WSSPK	7320-0569:0141	SURFACE WALL MTD.	
ANN	REMOTE ANNUNCIATOR	GAMEWELL-FCI	LCD-E3	7165-1703:0125	SURFACE WALL MTD.	

NOTE: EXISTING FIRE ALARM SYSTEM IS 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 CONTRACT.

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

NOTE:

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 SEVEN (7) NEW MODULAR CLASSROOMS VIA SMOKE DETECTORS, HEAT DETECTORS, AND VISUAL/AUDIBLE EVAC DEVICES. CONNECT TO EXISTING FIRE ALARM SYSTEM INSTALLED UNDER DSA # 03 - 103017

≣ / ACTION	Pull Stations Manual	Area Smoke Detectors	Detectors Area Heat	Heat Linear Detectors	Beam Detectors	Flow Water Sprinkler	Bell Switch Tamper Sprinkler	Power Failure	Fire Alarm ac Power Failure	Fire Alarm Low Battery System	Open Circuit	Fault Ground	Short Circuit Appliance Notification	Kitchen Suppression	Room Smoke Elevator Machine Detector	Lobby Smoke Elevator Detector	Heat Room Elevator Machine Detector	Heat Detector Hoistway	Controller Fire Pump	Notes		
ciate alarm at FACP and Remote Annunciator	Х	Χ	Χ																	Ш		
siate supervisory condition at FACP and Remote siator																						
siate trouble at FACP and Remote Annunciator	Х	Χ	Χ					Χ	Χ	Χ	Χ	Χ	Χ							[1]	I NUI	MBER
e Audible/Visual Signal Thoughout School (Alarm)	Х	Χ	Χ																		I	
t Central Station (UDACT)	Х	Χ	X					Х	Χ	Χ	Χ	Χ	Х							П	FA	A-101
ocal Public Address System	Х	Χ	Χ																			N-102
Passing Signals	Х	Χ	X																	П		102
own Air Handling Equipment	Х	Χ	Χ																	[2]	FA	A-201
Smoke/Fire Dampers	Х	Χ	Х																	[3]		N-301
Smoke and Fire Doors																				Ш	FA	1-301
n general house lighting																				Ш	FA	N-401
r Power Shunt Trip																				Ш	1 ⊢	
r Recall																				П		
Sprinkler Bell																				П		

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

[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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An Employee Owned Corporation

ARCHITECT

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TEL (816)538-7800
TEL (816)538-7800



Checked by

Revisions

No. Date Description DSA SUBMITTAL

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.

(6) 24'x40' + (1) 36'x40'
MODULAR CLASSROOM BUILDINGS AT
HUENEME HIGH SCHOOL

500 W. BARD ROAD OXNARD, CA 93033

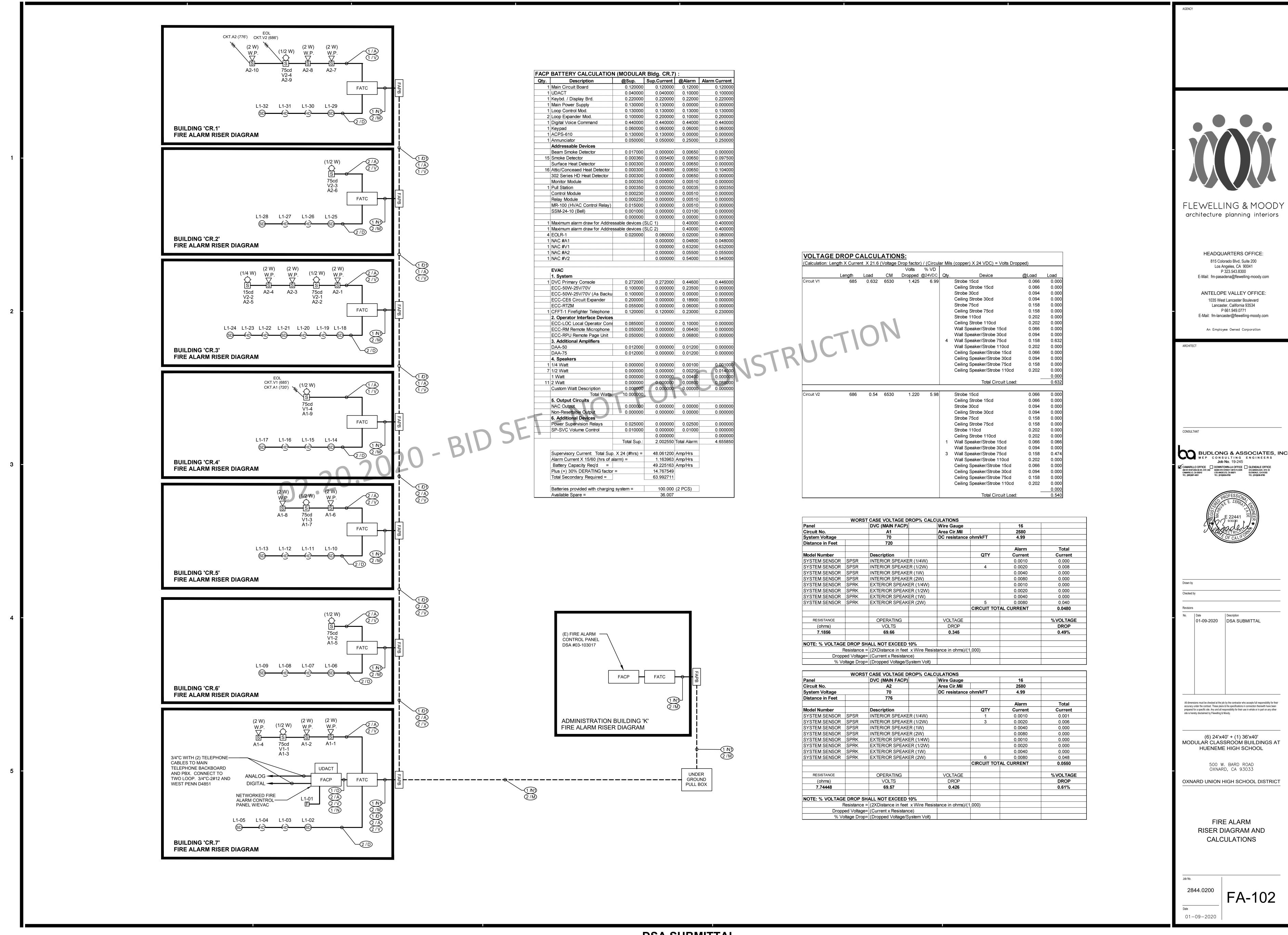
OXNARD UNION HIGH SCHOOL DISTRICT

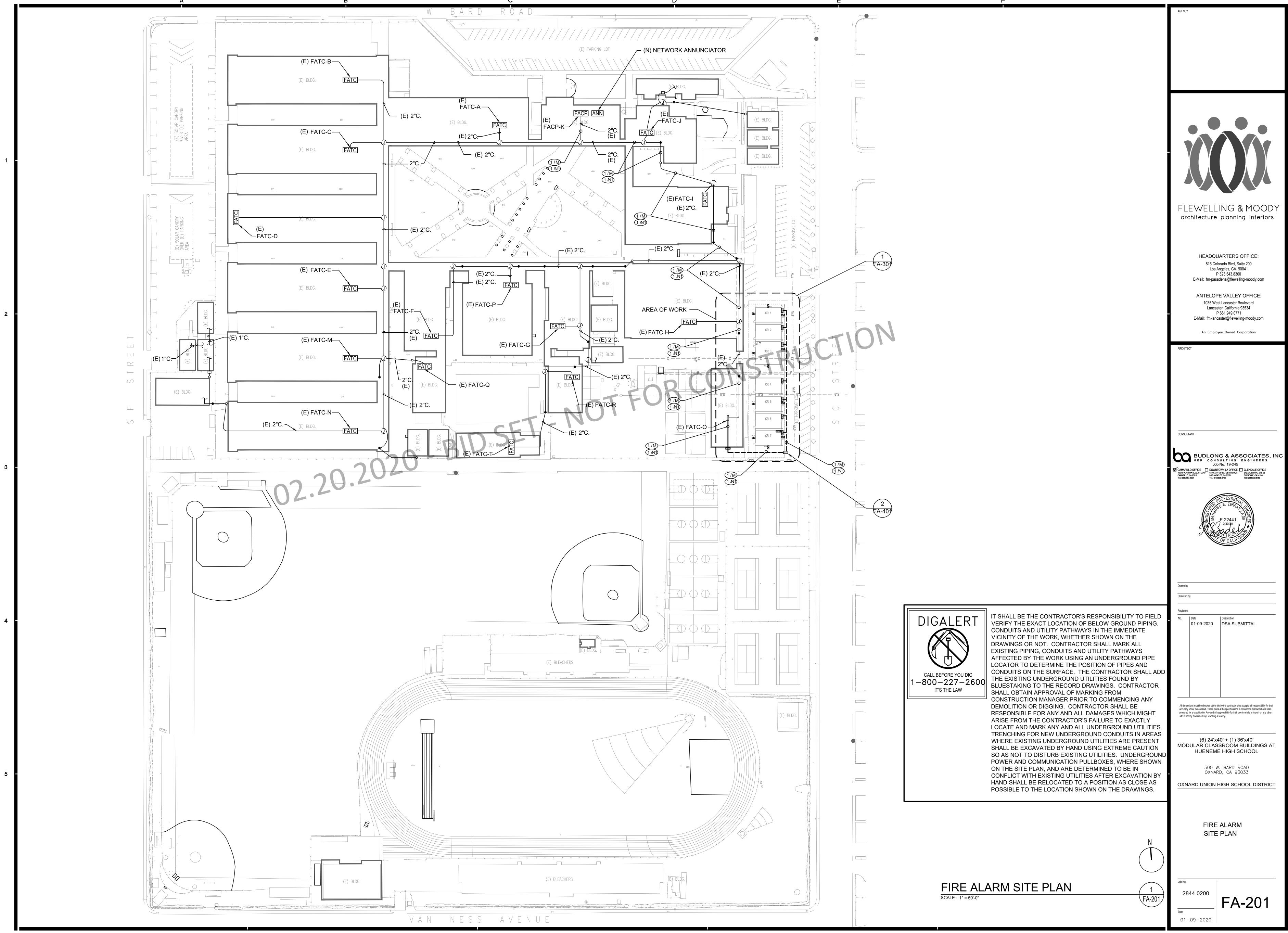
FIRE ALARM FRONT SHEET

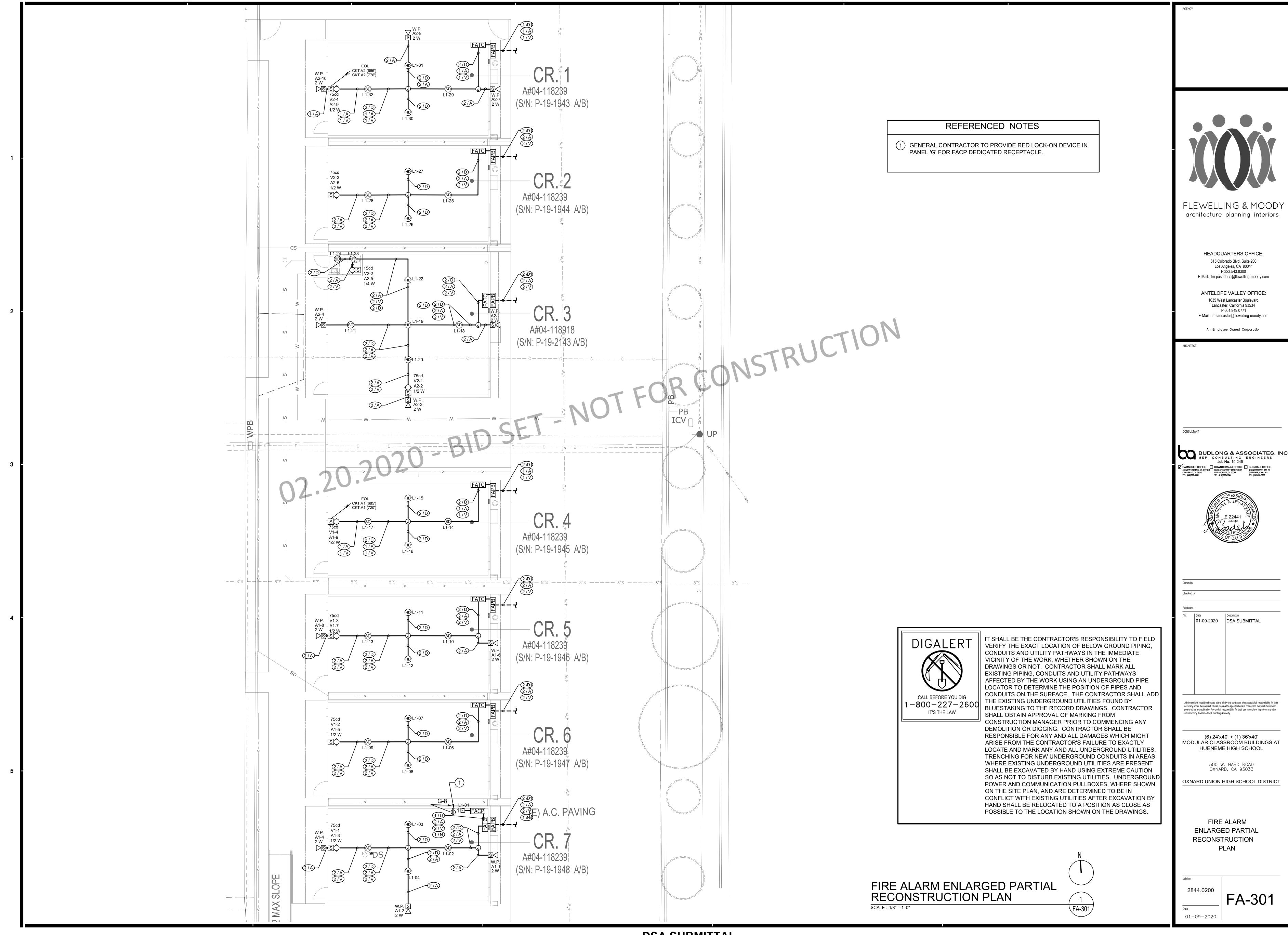
Job No. 2844.0200

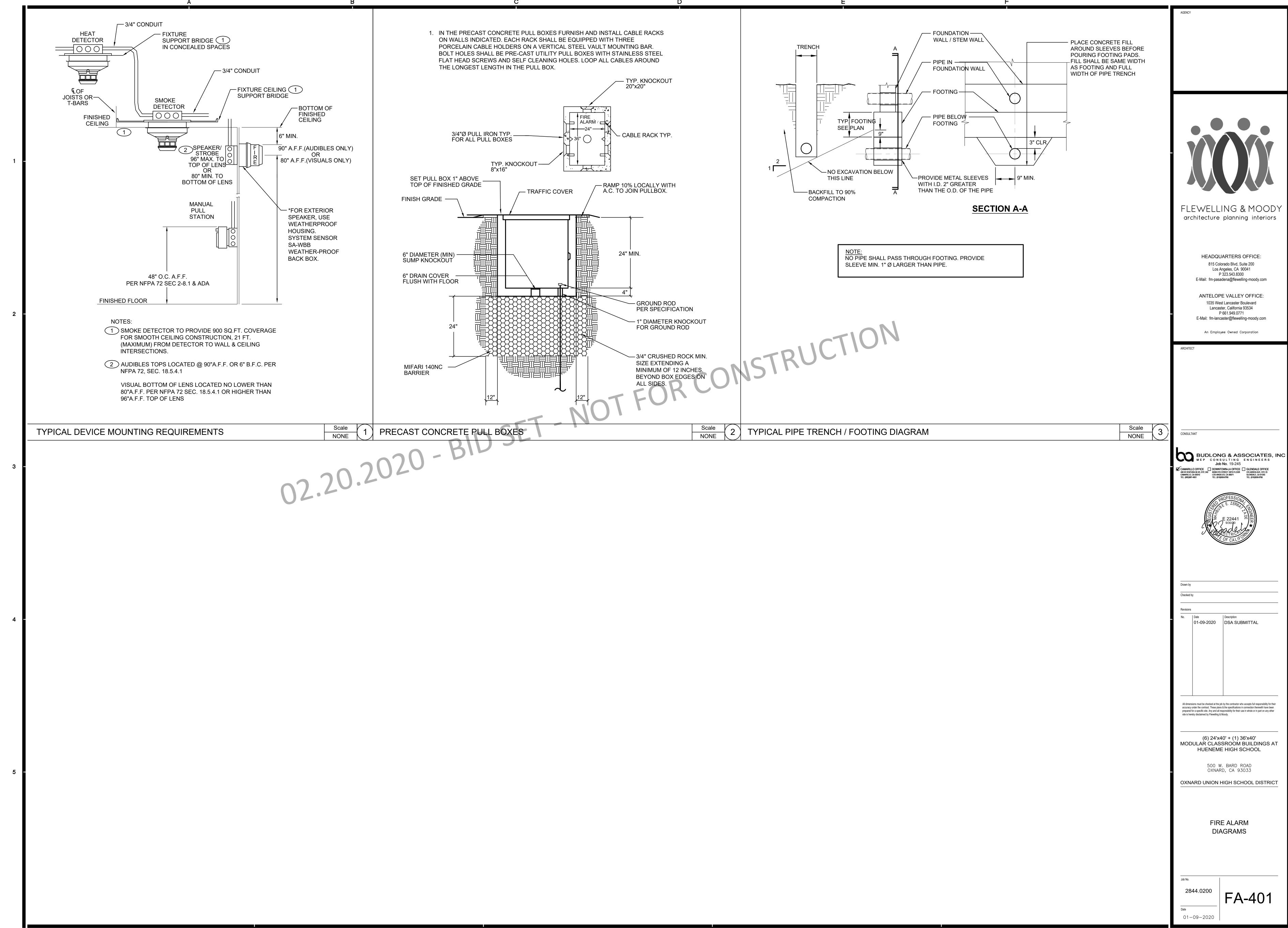
01-09-2020

FA-101









Sheet List	Sheet List		X) X
Sheet Number Sheet Name	Sheet Number Sheet Name		
E2.3 120'x40'T24CZ16 (WALL AC)	Under Separate Cover		
E2.3 120'x40' T24 CZ 6 (WALL AC) E2.1 120'x40' T24 CZ 16 (WALL AC)	FS-1 FIRE SPRINKLER DESIGN 1		
E2.2 120'x40' T24 CZ 16 (WALL AC)	FS-2 FIRE SPRINKLER DESIGN 2		
Cover A0.0 COVER SHEET	F1.10 WOOD FOUNDATION NOTES SCHED FOR BLDG W/50 + 15		
A0.0 COVER SHEET A0.0.1 PROJECT OPTIONS SCHEDULE	F1.11 WOOD FOUNDATION PLAN 24 x 40 BLDG W/50 + 15		
A0.1 TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,	F1.40 WOOD FOUNDATION DETAILS SR0 MODULE PLAN & NOTES		
A0.2 SIGNAGE AND SYMBOLS A0.3 DSA-103 T&I CONCRETE FLOORS	SR1 RAMP AND LANDING PLAN		ž
A0.4 DSA-103 T&I PLYWOOD FLOORS	SR2 RAMP AND LANDING FRAMING SR3 FOUNDATION PLAN		
A0.5 CALGREEN SPEC'S	SR4 RAMP AND LANDING / STAIR FRAMING		
	SR5 RAMP DETAILS SR6 RAMP DETAILS		
	SR7 STAIR CONN		
Architectural			
A1.0 24x40 FLOOR PLAN A1.1 36x40 FLOOR PLAN			
A1.2 18x40 FLOOR PLAN			
A2.1 ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)		LOW SEISMIC	
A2.2 ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH)			
A2.3 ARCHITECTURAL DETAILS (MTL FRAMING SHTG FINISH) A2.4 ARCHITECTURAL DETAILS (MTL FRAMING PLASTER FINISH)		DESIGN CRITERIA DO #	
A2.5 ARCHITECTURAL DETAILS (1-HR WOOD FRAMING SHTG FINISH)		PC # 04-116504	2 .
A2.6 ARCHITECTURAL DETAILS (1-HR WOOD FRAMING PLASTER			
A2.7 ARCHITECTURAL DETAILS (1-HR MTL FRAMING SHTG FINISH)		PC NOT USABLE 24' x 40' EXPANDABLE TO 120' x 40'	
A2.8 ARCHITECTURAL DETAILS (1-HR MTL FRAMING PLASTER FINISH)		LALIANUA DE ACOLUMIZACION DE LA X 4U EXPANIZACIO E IUDIZU X 4U	
A2.9 ARCHITECTURAL DETAILS (FLOOR) A3.0 ADDITIONAL FIRE RATING DETAILS AND NOTES		IN WUI AREAS ZT A TO LAI AINDADLL IO IZO A TO STKP	# 244
A3.1 SINCLE OCC. BATHROOM			
A3.2 RCP	DESIGN CODES		
A3.2.1 CEILING NOTES A3.3 CEILING DETAILS (T-GRID)	PARTIAL LIST OF APPLICABLE CODES AS OF February 28, 2017		
A3.4 CEILING DETAILS (GYP BOARD)		P-19-1913 A/B	
A4.0.1 ROOF PLAN MONO SLOPE (STANDING SEAM) A4.0.2 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.		
A4.0.2 ROOF PLAN DUAL SLOPE (STANDING SEAM) 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.	THRU	
A4.2.1 ROOF PLAN MONO SLOPE (EPDM)	(2014 National Electrical Code with 2016 California Amendments)	P-19-2012 A/B	÷
A4.2.2 ROOF PLAN DUAL SLOPE (EPDM)	2016 California Mechanical Code (CMC), Part 4, Tiltle 24 C.C.R. (2015 Uniform Mechanical Code with 2016 California Amendments)		
A4.3 ROOF DETAILS (EPDM) A4.4.1 ROOF PLAN w/ PARAPET MONO SLOPE (EPDM)	2016 California Plumbing Code (CPC), Part 5, Title 24 C.C.R.	(100) 24 X 40	
A4.5 ARCHITECTURAL DETAILS (PARAPET)	(2015 Uniform Plumbing Code with 2016 California Amendments) 2016 California Energy Code (CEC), Part 6, Title 24 C.C.R	@ AT FIXT FIXTURE PAR PARALLEI	
A5.0 SIDEWALL ELEVATION A5.1 ENDWALL ELEVATIONS	2016 California Fire Code, Part 9, Title 24 C.C.R. (2015 International Fire Code with 2016 California Amendments)	AB ANCHOR BOLT FJT FLUSH JOINT PBD PARTICLE BOARD ABC AGGREGATE BASE COURSE FLR FLOOR PCC PRECAST CONCRETE	
A5.1 ENDWALL ELEVATIONS A5.2 INTERIOR ELEVATIONS	2016 California Green Building Standards Code, Part 11, Title 24 C.C.R.	ABV ABOVE FLUR FLUORESCENT PCF POUNDS PER CUBIC FOOT ADD ADDENDUM FILE FLUORESCENT PCF POUNDS PER CUBIC FOOT PCS PIECES PCS PIECES PCS PIECES PERFORATE (D) P-19-2013 A/B/C/D	
A6.0 SECTION - STANDING SEAM (MONO)	2016 California Referenced Standards, Part 12, Title 24 C.C.R Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.	ADH ADHESIVE FO* FACE OF PERI PERIMETER	
A6.0.1 SECTION - STANDING SEAM (DUAL) A6.1 SECTION - EPDM (DUAL)	2013 ASME A17.1 (W/ CSA B44-13) Safety Code for Elevators and Escalators	ADJ ADJACENT, ADJUSTABLE FP FIREPROOF (ED) PFB PREFABRICATE (D) ADOH ALTERNATE DIRECTION FP'G FIREPROOFING PFS POUNDS PER SQUARE FOOT OF HOOK FR FRAME (D)(ING) PL PLATE	9
A6.1 SECTION - EPDM (DUAL) A6.2 SECTION		AFF ABOVE FINISHED FLOOR FRC FIRE RESISTANT COATING PLBG PLUMBING PLG PLG PLUMBING PLG PLG PLG PLG PLG PLG PLG PLG PLG PL	
A6.3 SECTION - EPDM (MONO)	PARTIAL LIST OF APPLICABLE STANDARDS	ALTALTERNATE FRMG FRAMING P.L. PARALLAM ALUM ALUMINUM FT FOOT, FEET PLWD PLYWOOD ANCH ANCHOR (AGE) FTG FOOTING PMT PAVEMENT AND	
A7.0 ADDITIONAL OPTION DETAILS A7.1 ADDITIONAL OPTION DETAILS	NFPA 13 Automatic Sprinkler Systems 2016 Edition	ANOD ANODIZED FURR FURRED, FURRING PNL PANEL APPRX APPROXIMATE FV FIELD VERIFY POSTEN POST TENSION (D) (15) 48 X 40	
A7.1 ADDITIONAL OF HON BETAILS A7.2 ADDITIONAL OPTION DETAILS	NFPA 14 Standpipe Systems 2013 Edition NFPA 17 Dry Chemical Extinguishing Systems 2013 Edition	ARCHI ARCHITECT (URAL) ASPH ASPHALT GA GAUGE POLY POLYETHYLENE	
MEP	NFPA 17a Wet Chemical Systems 2013 Edition	AUTO AUTOMATIC GALV GALVANIZED PR PAIR GC GENERAL CONTRACTOR PRJ PROJECT B BOTTOM GI GALVANIZED IRON PSC PRESTRESSED CONCRETE	
E1.0 ELECTRICAL PLAN 24x40 E1.1 ELECTRICAL SCHEDULES 24x40	NFPA 20 Stationary Pumps 2016 Edition NFPA 22 Water Tanks for Private Fire Protection 2013 Edition	B BOTTOM GI GALVANIZED IRON PSC PRESTRESSED CONCRETE BB BOND BEAM GKT GASKET PSF POUNDS PER SQUARE FOOT BC BOTTOM CHORD GL GLASS, GLAZING PSI POUNDS PER SQUARE INCH	
E1.1 ELECTRICAL SCHEDULES 24x40 E1.2 ELECTRICAL PLAN 36x40	NFPA 24 Private Fire Mains 2016 Edition	BD BOARD GLM GLULAM PT POINT BEG BEGIN (ING) GP GALVANIZED PIPE P.T. PRESSURE TREATED	
E1.3 ELECTRICAL SCHEDULE 36x40	NFPA 72 National Fire Alarm Code 2016 Edition NFPA 80 Fire Doors and Other Opening Protectives 2016 Edition	BEL BELOW GPM GALLONS PER MINUTE PTC POST-TENSIONED CONCRETE BIT BITUMINOUS GPPL GYPSUM PLASTER PTD PAINTED BJT BED JOINT GRVL GRAVEL, GRANULAR PVC POLYVINYL CHLORIDE	
E1.4 ELECTRICAL PLAN 48×40 E1 E ECTRICAL SCHEDULE 48×40	NFPA 92 Standard for Smoke Control Systems 2015 Edition NFPA 253 Critical Radiant Flux of Floor Covering Systems 2015 Edition	BJT BED JOINT GRV. GRAVEL, GRANULAR PVC POLYVINYL CHLORIDE BLDG BUILDING GRD GRADE, GRADING PVMT PAVEMENT BLK BLOCK ('G, ING) GRN GRANITE	
M0.1 MISCELLANEOUS NOTES & DETAILS	NFPA 2001 Clean Agent Fire Extinguishing Systems 2015 Edition	BLW BELOW GSS GALVANIZED SHEET STEEL QTY QUANTITY BM BEAM GT GROUT R RADIUS, RISER	
M2.1 120'x40' T24 CZ 16 (WALL AC)	ICC 300 ICC Standards on Bleachers, Folding and Telescoping 2012 Edition Seating and Grand stands	BMK BENCH MARK GVL GRAVEL RAD RADIUS BO* BOTTOM OF GWB GYPSUM WALLBOARD RD ROOF DRAIN BPL BEARING PLATE GYP GYPSUM RECT RETANGULAR	
M2.2 120'x40' T24 CZ 16 (WALL AC) M2.3 120'x40' T24 CZ 16 (WALL AC)	UL 300 Fire Testing of Fire Extinguishing System for Protection 2005 Edition Of Restaurant Cooking Areas	BPL BEARING PLATE GYP GYPSUM RECT RETANGULAR BRD BOARD BRD BOARD BRD BRIDGING H HIGH REFERENCE, REFER TO REF REFERENCE, REFER TO REIN RETANGULAR CONSTRUCTION OF CLASSROOM BUILDING (RELOCATABLE)	
M2.4 120'x40' T24 CZ 16 (WALL AC)	UL 464 Audible Signal Appliances 2003 Edition	BRG BEARING HBD HARDBOARD REM REMOVE BRK BRICK HC HOLLOW CORE REQD REQUIRED BRS BRONZE HD HEAVY DUTY REGS REQUIRED BRS BOTH SIDES HDNB HARDBOARD REM REMOVE SCOPE OF WORK SCOPE OF WORK	
M5.1 MECHANICAL CEILING PLAN 24x40	UL 521 Heat Detectors for Fire Protective Signaling Systems 1999 Edition	DO DOTTIGUES HOW HANDERER RETAINING	
M5.2 MECHANICAL ROOF MOUNT 24x40 MECHANICAL CEILING PLAN 36x40		BVL BEVELED HDWR HARDWARE RFG ROOFING BW BOTH WAYS HDWD HARDWOOD REH ROOF HATCH	
M6.2 MECHANICAL ROOF MOUNT 36X40	Reference Code Section for NFPA Standards - 2016 CBC (SFM) Chapter 35. See Chapter 35 for State of California amendments to NFPA Standards.	HES HIGH EARLY STRENGTH CEMENT RFL REFLECT (ED)(IVE)(OR) C CHANNEL, COMPRESSION HH HANDHOLE RM ROOM CCUPANCY: "F"	
M7.1 MECHANICAL CEILING PLAN 46x40		CAD CADMIDM HJT HEADJOINT RO ROUGH OPENING CAM CAMER HK HOOK RT FIRE FRANCIST TREATED CONSTRUCTION TYPE: VB	
M7.2 MECHANIGAL ROOF MOUNT 48x40— TYPICAL PLUMBING DETAILS—	* California Administrative Code, Part 1, Chapter 10, Administrative Regulations for the California Energy Commission (CEC).	C/C CENTER TO CENTER HM HOLLOW METAL RT RUBBER TILE RTG RATING CF CUBIC FOOT HPT HIGH POINT RVS REVERSE SIDE FLOOR LIVE LOAD: 50+15 PSF PARTITION D 100 PSF 150 PSF	
Foundation	A COLUCTION CONTROL (EVERDICE) PROLUCEMENTS	CHAM CHAMFER HOUR RVT RIVET CI CAST IRON HSA HEADED STUD ANCHOR FLOOR DEAD LOAD: WOOD FLOOR - 11 PSF	
F1.10 WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 50+15 F1.11 WOOD FOUNDATION PLAN 24×40 BLDG W/ 50+15	ACOUSTICAL CONTROL (EXTERIOR) REQUIREMENTS	CIP CAST-IN-PLACE HSB HIGH STRENGHT BOLT S SOUTH CIR CIRCLE HT HEIGHT SC SOLID CORE CIRC CIRCUMFERENCE HWD HARDWOOD SCHED SCHEDULE	
F1.12 WOOD FOUNDATION PLAN 24x40 BLDG W/ 50+15 F1.12 WOOD FOUNDATION 36x40 BLDG W/ 50+15	Per the 2016 CCR, Title 24, Part 11 (CALGREEN CODE) Section 5.507.4. This pre-check building is not allowed to be placed:	CJ CONSTRUCTION JOINT SDL SUPERIMPOSED DEAD LOAD CJT CONTROL JOINT SDS SELF DRILL SCREW ROOF LIVE LOAD: 20 PSF	
F1.13 WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15	 Within the 65 CNEL noise contour of a airport; Within the 65 CNEL or Ldn noise contour of a freeway, expressway, railroad, or industrial source 	CLG CEILING ID INSIDE DIAMETER SE STRUCTURAL ENGINEER CLK CAULK, ('G, ING) IN INCHE (ES) SDST SELF-DRIEL, SELF-TAP'G SCREW CLKG CAULKING INCLUDE (D) INCLUDING SECT SECTION ROOF SNOW LOAD: 0 PSF ROOF SNOW LOAD: 18.5 PSF (INCLUDES SPRINKLERS & 3PSF SOLAR PANEL)	8
F1.14 MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 100 PSF F1.20 WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF	guideway;	CLR CLEAR INSUL INSULATION SF SQUARE FOOT, SQUARE FEET RAMPLIVE LOAD: 100PSF	
F1.21 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.	CM CENTIMETER INTM INTERMEDIATE SHT SHEET FLOOD DESIGN: This PC has not been designed to accommodate flood loads. If located in a commodate flood loads.	
F1.22 WOOD FOUDATION PLAN 36×40 BLDG W/ 100 PSF	CODE ADOPTED YEAR ITEM	CMU CONCRETE MASONRY UNIT SI SQUARE INCH CNTR CENTER JST JOIST SIM SIMILAR COL COLUMN JT JOINT SL SLOPE Allowable soil values assumed in this PC are still applicable.	
F1.23 WOOD FOUNDATION PLAN 48x40 BLDG W/ 100 PSF F1.24 MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 100 PSF	NFPA 13 2016 AUTOMATIC SPRINKLER SYSTEMS	COG CENTER OF GRAVITY SLNT SEALANT COMB COMBINATION K KIP (S) SMS SHEET METAL SCREW BUILDING AREA NO OVERHANG WITH OVERHANG (5' @ EA. END)	
F1.30 WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 150 PSF	NFPA 72 2016 NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS	COMP COMPRESS (ED)(ION)(IBLE) KO KNOCKOUT SOG SLAB ON GRADE ALLOWABLE AREA 24x40 960 sf 24x40 1200 sf	
F1.31 WOOD FOUNDATION PLAN 24X40 BLDG W/ 150 PSF S F1.32 WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF	NOTE: VISUAL DEVICES PER UL STANDARD 1971	CONN CONNECT (ION) SPC SPACER CONC CONCRETE L LONG, LENGTH SPEC SPECIFICATION (S) CONST CONSTRUCT (ION) (ED) LAM LAMINATE (D) SQ SQUARE ACTUAL AREA 36x40 1440 sf ACTUAL AREA 48x40 1920 sf ACTUAL AREA	e e
F1.33 WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF	a section we have the state of the section at the s	CONT CONTINUE, CONTINUOUS LB POUND, LAG BOLT SSTL STAINLESS STEEL =4,800 SF ☐ 60x40 2400 sf ☐ 60x40 3000 sf	* * * * * * * * * * * * * * * * * * *
F1.34 MODLINE "B" W/ EXTERIOR WALL BACK-TO-BACK 150 PSF	THIS PC HAS A "PRE-DESIGNED" FIRE SPRINKLER SYSTEM INSTALLED. SEE BELOW FOR SITE REQUIREMENTS BY OWNER	COR CORRUGATED LC LIGHT CONTROL STD STANDARD \$ 72x40 2880 \text{ sf} 72x40 3600 \text{ sf} 84x40 4200 \text{ sf} 84x40 4200 \text{ sf}	8
E F1.40 WOOD FOUNDATION DETAILS CONCRETE FOUNDATION PLAN		CPR COPPER LH LEFT HAND STRUCT STRUCTURE ☐ 96x40 3840 sf ☐ 96x40 4800 sf	
F2:20 CONCRETE FOUNDATION DETAILS	IT IS THE OWNERS RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GPM) AND PRESSURE (PSI)CAN BE ATTAINED AT THE BASE OF THE RISER AT THE	CRS COURSE (S) LLH LONG LEG HORIZONTAL SYM SYMETRICAL, SYMETRY 108x40 4320 sf* 108x40 5400 sf*	y y
F2.22 CONCRETE FOUNDATION DETAILS CONCRETE FOUNDATION DETAILS	PROPOSED SITE FOR EACH PROPOSED BUILDING. THIS PC REQUIRES	CTSK COUNTERSUNK SCREW LPT LOW POINT CU CUBIC LT LIGHT CX CONNECTION LTL LINTEL T TOP, TORSION, TREAD **Connection LTL LINTEL TOP, TORSION, TREAD	
Structural	MINIMUM GPM : 250	CY CUBIC YARD LVL LEVEL (ING) TAB TOP AND BOTTOM GEO-INAZAIG SILE SPECIFIC TEPOTI MUST be provided and approved by CGS for building area more than LW LIGHT WEIGHT TAG TONGUE AND GROOVE 4000 sf	
S0.1 STRUCTURAL GEN NOTES	MINIMUM PSI: 35	D DEEP, DEPTH LWC LIGHT WEIGHT CONCRETE TC TOP CHORD DBL DOUBLE LWF LIGHT WEIGHT FILL TEN TESION, TENSILE ALLOWABLE SOIL PRESSURE: WOOD FTG -1000PSF CONCRETE FTG 1500PSF	e a
S1.0.1 WD SHTH'G FLR FRM'G PLAN (50+15 PSF) S1.0.2 WD SHTH'G FLR FRM'G PLAN (100 PSF)	FAILURE TO ATTAIN THE MIN GPM/PSI MAY NECESSITATE THE INSTALLATION OF ONE OR MORE OF THE FOLLOWING ITEMS/EQUIPMENTS.	DEF DEFLECTION DEG DEGREE M METER (S) MOMENT THO THREAD (ED) DEMO DEMOLISH, DEMOLITION MATL MATERIAL THK THICK (NESS) TEMP TEMPORARY, TEMPERATURE FOUNDATION: XWOOD CONCRETE PC IS DESIGNED BASED ON A PINNED CONNECTION TO THE FOUNDATION.	
WD SHTH'G FLR FRM'G PLAN (150 PSF) S1.0.3 WD SHTH'G FLR FRM'G PLAN (150 PSF)		DEP DEPRESSED MAS MASONRY TMPD TEMPERED DEPT DEPARTMENT MAX MAXIMUM TO* TOP OF	*
S1.1.1 CONC FLR FRM'G PLAN (50+15 PSF)	A. WATER TANK 1. FIRE PUMP	DET DETAIL MB MACHINE BOLT TL TOTAL LOAD CEC CLIMATE ZONE: 1-16 DIAG DIAGONAL MBR MEMBER TR TREAD	n 9
S1.1.2 CONC FLR FRM'G PLAN (100 PSF) S1.1.3 CONC FLR FRM'G PLAN (150 PSF)	2. BACK UP FIRE SUPPLY	DIA DIAMETER MCONN MOMENT CONNECTION TS TUBE STEEL DIM DIMENSION (ED) MECH MECHANICAL TYP TYPICAL DIV DIVISION MED MEDIUM WIND DESIGN	
S1.2 STRUCTURAL DETAILS (FLOOR)	B. ADDITIONAL UNDERGROUND FIRE LINE TAPS C. ALL OR ANY COMBINATION OF THE ABOVE OR ANY OTHERS AS REQUIRED	DL DEAD LOAD MET METAL UC UNDERCUT DN DOWN MEMB MEMBER UGD UNDERGROUND ULTIMATE DESIGN SPEED: Vult = 130 mph, 3 sec GUST, Kzt = 1.0	
S3.0.1 MONO SLOPE ROOF FRM'G PLAN	TO ENSURE PROPER OPERATION OF THE AFSS	DO DITTO MEP MECHANICAL, ELECTRICAL, UL UNDEREWRITERS LABORATORY DE PROPERTIES LABORATORY DE PRO	
S3.0.2 DUAL SLOPE ROOF FRM'G PLAN S3.1 STRUCTURAL DETAILS (ROOF)	THE FOLLOWING MUST BE SUPPLIED TO DSA AT THE TIME OF SUBMITTAL	DWG DRAWING, (S) MFD METAL FLOOR DECKING UNF UNFINISHED DWG DRAWING, (S) MFD METAL FLOOR DECKING UNF UNFINISHED UNFOLKEN UNFINISHED UNFOLKEN UNFINISHED SITE ADAPTED PROJECTS. FIRE ALARM IS NOT PART OF THIS SITE ADAPTED PROJECTS. FIRE ALARM IS NOT PART OF THIS THIS PC HAS BEEN STRUCTURALLY DESIGNED TO SUPPORT	S PC.
हि S3.2 ROOF DETAILS (SOFFIT/PARAPET)	WITH THE SITE PLAN FOR EACH PROPOSED BUILDING WITH AN AFSS. 1. MINIMUM GPM/PSI REQUIRED	E EAST, MIN MINIMUM, MINUTE V SHEAR FORCE, VELOCITY BOODULUS OF ELASTICITY MISC MISCELLANEOUS VB VAPOR BARRIER WEIGHT OF A FIRE SPRINKLER SYSTEM	
S3.3 ROOF PERIMETER TRUSS	2. WATER FLOW DATA (SEE DSA AFFS GUIDELINES)	EA EACH MM MILLIMETER (S) VER VERIFY EB EXPANSION BOLT MMB MEMBRANE VERT VERTICAL RISK CATEGORY: II 4. PC DESIGNED AS A SINGLE-STORY MODULAR BUILDING	MED LINE
S4.9 MTL WALL FRAMING ELEVATIONS S4.1 WD WALL FRAMING ELEVATIONS	 SITE PLAN SHOWING THE LOCATION OF THE "FLOW" AND "TEST" HYDRANTS (FULLY DIMENSIONED) 	EF EACH FACE MO MASONRY OPENING VG VERTICAL GRAIN EJT EXPANSION JOINT MOD MODEL VIF VERIFY IN FIELD SEISMIC IMPORTANCE FACTOR: 1 = 1 5. SEE STRUCTURAL FOR SOIL TYPES & BEARING STRENGTHS	.DE
S4.2 WALL DETAILS (WOOD FRAMING)	4. ALL (NEW AND EXISTING) UNDERGROUND FIRE LINES/PIPING -LENGTH	ELEC ELECTRIC (AL) MOV MOVABLE VNR VENEER ENCL ENCLOSURE, ENCLOSED MTL MATERIAL V.T.R. VENT THROUGH ROOF S1 = 1.99 REGULATIONS	DDE OF
S4.3 WALL DETAILS (MTL FRAMING)	AND SIZE SHOWING LOCATION AND METHOD OF UNDERGROUND PIPING RESTRAINTS TO TEST HYDRANT	ENG ENGINEER FOUND FOUND FOUND FOR "A" OCCUPANCY USAGE 7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USAGE	EOUIDED
S4.4 TYP FRAMING S4.5 FRAMING SCHEDULES	5. LOCATION OF ALL (NEW AND EXISTING);	EQUIP EQUIPMENT NAT NATURÁL WIDE FLANGE ESTM ESTIMATE (ED) NAL NALABLE W/WITH NOTE: FOR SDC (E) site specific motion analysis is not required if not in a seismic hazard zone 8. EXTERIOR PROJECTIONS TO BE FIRE PROTECTED WHERE RE Note: For SDC (E) site specific motion analysis is not required if not in a seismic hazard zone 9. SEE A0.5 AND ENGERY CALC M-SHEETS FOR REQUIRED ENVE	
S5.0 LONG. SECTION - (MONO)	A. FIRE HYDRANTS B. POST INDICATORS	EV EXPANSION BOLT NMT NONMETALLIC W/O WITHOUT ASSEMBLIES & HVAC SYSTEMS EW EACH WAY NO NUMBER WD WOOD ASSEMBLIES & HVAC SYSTEMS EXCA EXCAVATE (D) (ION) NOM NOMINAL WI WROUGHT IRON ASSEMBLIES & HVAC SYSTEMS SHORT/LONG PERIOD SITE COEFFICIENT: Fa = 1.0, Fu = 1.5 10. ALL SPECIFICATIONS BASED ON PERFORMANCE AND ABLE TO	
S5.1 LONG SECTION - (DUAL)	C. FIRE DEPARTMENT CONNECTIONS D. PRESSURE REDUCERS	(E), EXIST EXISTING WM WIRE MESH WP WATERPROFFING WM WRE MESH WP WATERPROFFING WM WRE MESH WP WATERPROFFING DEISIGN SPECTRAL RESPONSE: Sds = 1.00 (for building), Sd1 = 1.99,	BY D.S.A.
SR1 RAMP LANDING	E. BACK-FLOW PREVENTION/DETECTOR CHECK VALVES	EXP EXPOSED OA OVERALL WPR WATER REPELLENT (Sds=1.426 for other parameters non-structural component anchorage no-cap) EXPN EXPANSION O.C. ON CENTER WPT WORKING POINT RESPONSE COFFECIENT Cs: 0.286	
SR2 LANDING FRAME	F. OTHER FIRE RELATED ITEM/EQUIPMENTS APPLICABLE 6. HYDRAULIC CALCULATIONS FOR THE UNDERGROUND PIPING WITH	EXT EXTERIOR, EXTERNAL OH OVERHEAD WT WEIGHT WS WATER STOP WT WEIGHT BASIC SEISMIC FORCE-RESISTING SYS: OMF, R = 3.5	EN CODE
SR3 FOUNDATION PLAN	THE AVAILABLE GPM/PSI AT THE BASE OF EACH AFSS RISER (MUST MEET OR EXCEED MIN REQ'T)	FAS FASTENER OHWS OVALHEAD WOOD SCREW FOR SITE-USE FBO FURNISHED BY OTHERS OJ OPEN-WEB JOINT (S) WWF WELDED WIRE FABRIC WOOD FLOOR, LL ≤ 100, BASE SHEAR PER 24X40 MODULE: WOOD FLOOR, LL ≤ 100, BASE SHEAR PER	
SR4 RAMP ELEVATION SR5 RAMP DETAILS	7. ANY CHANGES TO THE CONFIGURATION (WALLS, CEILINGS,	FD FLOOR DRAIN OPH OPPOSITE HAND OPH OPPOSITE HAND OPENING OPE	ON IN THE
SR6 RAMP DETAILS	CONSTRUCTION TYPE) OR OCCUPANCY OF THE PC WILL NECESSITATE ADDITIONAL/REVISED HYDRAULIC CALCULATIONS	FHS FIRE HOSE STATION OPP OPPOSITE CONC. FLOOR, LL ≤ 100, BASE SHEAR= 26.07 KIP WALL AND FLOOR-CEILING ASSEMBLY MUST MEET A MINIMUN FHWS FLATHEAD WOOD SCREW FIN FINISH (ED) CONC. FLOOR, LL = 150, BASE SHEAR= 36.36 KIP 40 PER CALGREEN	ANI OTO UF
SR7 STAIR CONN	THE PROPERTY OF THE PROPERTY O		



PROFESSIONAL STAMP



12/10/20

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. ©



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.

SSS: G.CHAN

RLS: R. FERREN

ACS: R. MUllen

PROJECT SPECIFIC STATE AGENCY APPROVAL

DJECT SPECIFIC STATE AGENCY APPRO
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

04 118239

ACS PLES PLS & DATE MAR 0 1 2019

Revision Schedule

Description

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COVER SHEET

PROJECT NUMBER
17016A

DRAWN BY

rMc/SC

JA/RT
DATE 2018/03/08

SHEET OF SHEETS

SHEET NO.

ARCHITECTURAL

<u> </u>	HILECTUI	al Si	G	SENERA	AL ARCH	HITECT	URAL S	SHEETS						Sheet
COVER SHEET	· · · · · · · · · · · · · · · · · · ·		-	, w									a.	A0.0
PROJECT OPTIO	NS SCI	HED	ULE	=			25		,	n	t	S.		A0.0.1
TYPICAL KEY PL					GEN NO	TES						40.1		A0.1
SIGNAGE AND SY														A0.2
OSA-103 T&I CON									*			S 17 P 4/200		A0.3
SA-103 T&I CON		E FL	00	RS		A								A0.4
CALGREEN SPEC		3. meru -	-	·	A MARKET LANGUAGE AND A STATE OF THE STATE O		7 7 77 10			W			v v	A0.5
CALGREEN SHEE									9					A0.6
CALGREEN SHEE	z l			:						. 21778	<u> </u>		85	A0.7
5 Floor Plan D 1/4" = 1'-0"	<i>D</i> etails			ARCI	HITECT	URAL F	LOOR	PLANS						Sheet
X∕Floor Plans		8		⋉ Floor	Plan - 2	24'x40'				3024566				A1.0
					Plan - 3	material process to								A1.1
					Plan - 4	8'x40'				8				A1.2
1 Arch Floor F	raming	Deta	ails	ARCHI	ITECTU	RAL FLO	OOR F	RAMING [DETAI	LS				q
1/4 - 1-0												1		Sheet
X Wood Floor								1	2	3	4	5	6	A2.9
☐ Concrete Floor			_					7	8	9	10	11	12	A2.9
Wall Sched	lule	P-0, 787		***************************************	A D C I II'	TEATUR	ο Λι ΔΑ/	ALL DETA	ll C					
1/4 = 1-0					ARCHI	IECTOR	67 X 20 653		ILO		·		7	01 1
▼ Wood Stu	ıds	D-	<u>, I</u>	VAI I	Mindo	Corner		etail Top DLT	6" 0"	D 4 1 1 5 5 5 5	r 4 115 055	EVT	D #17175	Sheet
10h!		Do 8		ML 2 3 4 5		Corner 1		Top PLT	6" SE 5			EXT HDI	R INT HDR	A2.1
∢ Sheating				3 4 5	11	1	16	17	5	x x	X X	10A	10B	A2.1
] Plaster] 1-HR Sheating		8		2 3 4 5	11	1	16	17	5	 ^	1 -	10A	-	A2.5
☐ 1-HR Sheating☐ ☐ 1-HR Plaster		8		2 3 4 5	11	1	16	17	4	-	-	10A	4 =	A2.
☐ Metal Stu	ds													6
Wood Sheating		8		2 3 4 5	11	1	10	16	5	х	×	10A	10B	A2.3
Wood Plaster		8		2 3 4 5	11	1	10	16	5	х	×	10A	10B	A2.4
1-HR Sheating		8		2 3 4 5	11	1	16	17	5			10A		A2.7
☐ 1-HR Plaster							A2.8							
☐ Additional Fire Rating Details and Notes								A3.0						
Single OCC. Ba					×			-						A3.1
4 Ceiling Plan 1/4" = 1'-0"				ARCHIT	ECTUR	AL CEIL	LING P	LANS		900 900000	<u> </u>			Sheet
eflected Ceiling	X 24	' x 40)'	X	8 (2'x4')	Recess	ed Ligh	nt Fixture						A3.2
lans:					12 (1'x8'	') Penda	int Ligh							
	40				x16 [']) Re		-							A3.2
	□ 36	5' x 40	0'				_	ht Fixture			N.	*		A3.2
					16 (1'x8'	') Penda	nt Liah	1 I A						
				7.21	VACIN D	0000	_	t W/ 4						Λο ο
		1 5 4	יר		x16') Re		Light	a.						A3.2
	□ 48	8' x 40	O'		16 (2'x4'	') Reces	Light sed Lig	ıht Fixture		8				A3.2 A3.2
	□ 48	3' x 40	O'			') Reces ') Penda	Light sed Lig ant Ligh	ıht Fixture						
Celing Notes	□ 48	3' x 4(יט'			') Reces ') Penda	Light sed Lig ant Ligh	ıht Fixture						A3.2
Ceiling Deta		3' x 40	O'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed	Light sed Lig ant Ligh Light	jht Fixture t w/ 4		8				A3.2 A3.2
3 Ceiling Deta 1/4" = 1'-0"	ails	s' x 40	D'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed	Light sed Lig ant Ligh Light	ıht Fixture			fail			A3.2 A3.2 A3.2.1
Ceiling Deta	ails	s' x 40	O'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed	Light sed Lig ant Ligh Light	ght Fixture t w/ 4 EILING DE	ETAIL	De		ee T	BI KIC	A3.2
Ceiling Deta 1/4" = 1'-0" Celing Framing	ails	' × 40	O'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed	Light sed Ligh nnt Ligh Light	ght Fixture t w/ 4 EILING DE	ETAIL.	De ^s	Acces		BLK'G FF PI AN	A3.2 A3.2.1 Sheet
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID	ails	s' x 40	0'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed	Light sed Ligh nnt Ligh Light	ght Fixture t w/ 4 EILING DE	ETAIL.	De ^s	Acces		EE PLAN	A3.2 A3.2.1 Sheet
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Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0"	nils g	' × 40	0'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	wall SEE PLAN 6 ROOF PLAN Standir	ETAIL JON SEE ANS	Den pists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 Sheet A4.2.1 A4.0.1
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0"	nils g	' × 40	0'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	whit Fixture t w/ 4 EILING DE Wall SEE PLAN 1 6 ROOF PLAN	ETAIL JON SEE ANS	Den pists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 Sheet A4.2.1
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0"	nils g	s' x 40	0'		16 (2'x4' 18 (1'x8' x16') Re	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	wall SEE PLAN 6 ROOF PLAN Standir	ETAIL JON SEE ANS	Den pists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 A3.4 A4.2.1 A4.0.1 A4.4.1
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Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0" (Mono	nils g	' × 40	0'		16 (2'x4' 18 (1'x8' x16') Re ARCH	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	HI Fixture It w/ 4 EILING DE Wall SEE PLAN 1 6 ROOF PLAN CHARLES STANDER Parape Parape Standin	ETAIL Journal Sea	Der pists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 Sheet A4.2.1 A4.4.1 A4.2.2
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Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0" (Mono Dual Roof Details 1/4" = 1'-0"	nils g	' × 40	0'		16 (2'x4' 18 (1'x8' x16') Re ARCH	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	Wall SEE PLAN COOF PL	ETAIL Journal N SEE ANS ang Sea ETAILS	Der Dists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 Sheet A4.2.1 A4.4.1 A4.2.2 A4.0.2 Sheet A4.3
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0" (Mono Poof Details 1/4" = 1'-0"	nils g	' × 40	O'		16 (2'x4' 18 (1'x8' x16') Re ARCH	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	Wall SEE PLAN COOF PLAN Standin COOF DE	ETAIL Journal Seasons	Der Dists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 A3.4 A4.2.1 A4.0.1 A4.4.1 A4.2.2 A4.0.2
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Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0" (Mono Dual 22 Roof Details 1/4" = 1'-0" (Mono	nils g	' × 40	0'		16 (2'x4' 18 (1'x8' x16') Re ARCH	') Reces ') Penda cessed ITECTU	Light sed Light Light URAL C	Wall SEE PLAN COOF PL COOF P	ETAIL Journal Season S	Deroists PLAN 2 7	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 Sheet A4.0.1 A4.4.1 A4.2.2 A4.0.2 Sheet A4.3 A4.1 A4.5
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0" (Mono Dual Roof Details 1/4" = 1'-0" (Mono	ails g		O'		16 (2'x4' 18 (1'x8' x16') Re ARCH	HITECT	Light sed Light Light URAL C	Wall SEE PLAN COOF PL COOF P	ETAIL Journal N SEE ANS Tag Sea TAILS Tag Sea Tag Sea	Der pists E PLAN 2 7 am am	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 A3.4 A4.0.1 A4.4.1 A4.2.2 A4.0.2 Sheet A4.3 A4.1 A4.5 A4.3
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0" (Mono Dual Roof Details 1/4" = 1'-0" (Mono	ails g		O'		16 (2'x4' 18 (1'x8' x16') Re ARCH	HITECT	Light sed Light Light URAL C	HI Fixture t w/ 4 EILING DE Wall SEE PLAN 1 6 ROOF PLAN Standin Parape EPDM Standin ROOF DE EPDM Standin Parape	ETAIL Journal N SEE ANS Tag Sea TAILS Tag Sea Tag Sea	Der pists E PLAN 2 7 am am	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 A3.4 Sheet A4.2.1 A4.0.1 A4.4.1 A4.2.2 A4.0.2 Sheet A4.3 A4.1 A4.5 A4.3 A4.1
Ceiling Deta 1/4" = 1'-0" Celing Framing (T-GRID Wood MTL Roof Plans 1/4" = 1'-0" (Mono Dual Roof Details 1/4" = 1'-0" (Mono Dual Arch Buildin	ails g		0'		16 (2'x4' 18 (1'x8' x16') Re ARCH	HITECT	Light sed Light Light URAL C	Wall SEE PLAN COOF PLA Standin Parape BPDM Standin ROOF DE Parape Parape COOF DE COO	ETAIL Journal N SEE ANS Tag Sea TAILS Tag Sea Tag Sea	Der pists E PLAN 2 7 am am	Acces SEE PL 5		EE PLAN Typ	A3.2 A3.2 A3.2.1 Sheet A3.3 A3.4 A3.4 A3.4 Sheet A4.2.1 A4.4.1 A4.2.2 A4.0.2 Sheet A4.3 A4.1 A4.5 A4.5 A4.1 A4.5
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ARCHITECTURAL

Exterior Elevation 1/4" = 1'-0"	S ARCHITECTURAL EXTE	RIOR EI	_EVATIO	ONS			*	
		De	etail	Shee	et	De	ail	Sheet
Exterior Elevations:	★ 24'x40'	Left	Right			Front	Rear	2
	tXMono Slope	1	2	A5.	0	1	2	A5.1
	☐ Parapet Roof - Mono Slope	3	4	A5.	0	3	4	A5.1
9	☐ Dual Slope	5	6	A5.	0	1	2 *	A5.1
	□ 36'x40'							
±	☐ 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'					4 02 92 930		
*	☐ Mono Slope	1	2	A5.	0	9	10	A5.1
	☐ Parapet Roof - Mono Slope	3	4	A5.	0	11	12	A5.1
	☐ Dual Slope	5	6	A5.	0	9	10	A5.1
14 Interior Elevations	ARCHITECTURAL INTE	RIOR EL	EVATIO	NS	2			
		u.			De	etail		Sheet
Interior Elevations:		*	Le	eft R	ight	Front	Rear	
	★ 24'x40'		. 1	1	2	3	4	A5.2
	□ 36'x40'		1		2	5	6	A5.2
e e	□ 48'x40'		1	Í	2	8	7	A5.2

		· · · · · · · · · · · · · · · · · · ·	MEP		
Mechanical Mechanical Mechanical Mechanical Mechanical Mechanical Mechanical Roof Mount Mechanical Roof Mount Mechanical Mechanical Roof Mount Mechanical Mechanical Roof Mount Mechanical Mec			PLUMBING	~	
Mechanical					P1.0
			MECHANICAL	Sh	eet
Mechanical	<u> </u>				
Roof Mount M5.1 M5.2 G6' x 40'	Mechanical	X 24' × 40'	DEWall Mount	1	·
36' x 40'	Plans:	ZX24 X 40			
Roof Mount M6.1 M6.2 Roof Mount M7.1 M7.2 Roof Wount M7.1 M7.2 Roof Wount Roof Mount M7.1 M7.2 Roof Mount Roof Mount Roof Mount Roof Roof Roof Roof Roof Roof Roof Ro		□ 36' × 40'			
48' x 40'		D 30 X 40		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Roof Mount		□ 48' × 40'			*****
G0' x 40'		10 A 40			
Roof Mount		□ 60' x 40'			
72' x 40'	*	00 X 10		-	
Roof Mount	å	□ 72' x 40'		-	
84' x 40'		12 X 10			
Roof Mount		□ 84' x 40'			
96' x 40'		L 04 X 40		A	0.1
Roof Mount		☐ 96' x 40'			
108' x 40'					
Roof Mount		□ 108' x 40'		·	
□ 120' x 40' □ Wall Mount □ Roof Mount □ ELECTRICAL Sheet Reflected Ceiling Plans: □ 36' x 40' □ 12 (2'x4') Recessed Light Fixture □ 18 (1'x16') Recessed Light Fixture □ 24 (1'x16') Recessed Light Fixture □ 30 (1'x16') Recessed Light Fixture □ 36 (1'x16') Recessed Light Fixture □ 37 (1'x16') Recessed Light Fixture □ 38 (1'x16') Recessed Light Fixture		100 % 10			
Roof Mount Electrical 1/4" = 1"-0" ELECTRICAL Sheet		□120' x 40'			TH
Electrical		120 X 10			
Reflected Ceiling Plans: X 24' x 40' X 8 (2'x4') Recessed Light Fixture 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 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 36 (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 96' x 40' 32 (2'x4') Recessed Light Fixture 48 (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 Fixture 48 (1'x8') Pendant Light Fixture 48 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light Fixture 48 (1'x8') Pendant Light Fixture 48 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light Fixture 48 (1'x8') Pendant Light Fixture 48 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light Fixture 48 (1'x8') Pendant Light W/ 4 (1'x16') Recessed Light Fixture 48 (1'x16')	(2		Sh	eet
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□ 54 (1'x8') Pendant Light w/ 4			1 ' '		
(1'x16') Recessed Light					
□ 120' x 40' □ 40 (2'x4') Recessed Light Fixture		□ 120' x 40'	☐ 40 (2'x4') Recessed Light Fixture		
□ 60 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light			☐ 60 (1'x8') Pendant Light w/ 4	ı.	
Fire Sprinklers Plans 1/4" = 1'-0" FIRE SPRINKLERS PLANS Sheet			FIRE SPRINKLERS PLANS		Sheet
□ Fire Sprinklers Drawings: □ Floor Plans FS-2	□ Fire Sprinklers [Drawings: □	Floor Plans	50 2	
□ Details FS-1			Details		FS-1

Foundations Plans 1/4" = 1'-0"	FOL	UNDATION	
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Foundation			F1.1
Plan:		☐ 24'x40' (100 PSF)	F1.2
		□ 24'x40' (150 PSF)	F1.3
		24 X40 (100 F OF)	,
4	w	□ 36'x40' (50+15 PSF)	F1.1
	# #	□ 36'x40' (100 PSF)	F1.2
		□ 36'x40' (150 PSF)	F1.3
	a a	□ 48'x40' (50+15 PSF)	F1.1
	*	□ 48'x40' (100 PSF)	F1.2
		□ 48'x40' (150 PSF)	F1.3
Concrete Foundation Plan	2		F2.1
General Structural Sheets 1/4" = 1'-0"	GENERAL STF	RUCTURAL SHEETS	Shee
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☐ Concrete			
Framing Floor:		□ (50+15 PSF)	S1.1
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Floor Framing Details 1/4" = 1'-0"	STRUCTURAL FL	OOR FRAMING DETAILS	Shee
XWood Framing			S1.2
☐ Concrete Framing			S1.2
Roof Framing Plans	STRUCTURAL RO	OOF FRAMING PLANS	She
☑ Mono Slope Roof Framing			S3.0
☐ Dual Slope Roof Framing	2		S3.0
Wall Framing Details 1/4" = 1'-0"	STRUCTURAL W	ALL FRAMING DETAILS	
XWood:			She
ズ Framing Elevation			S4.1
Wall Details			S4.2
□ Metal:			
☐ Framing Elevation	_0111		S4.0
☐ Wall Details	TKU		S4.3
Typ Framing:			S4.4
Framing Schedule:	<u> </u>		S4.5
Building Section 1/4" = 1'-0"	STRUCTURAL B	UILDING SECTION	She
			S5.0
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PROFESSIONAL STAMP



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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

FILE NUMBER: PC-128

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

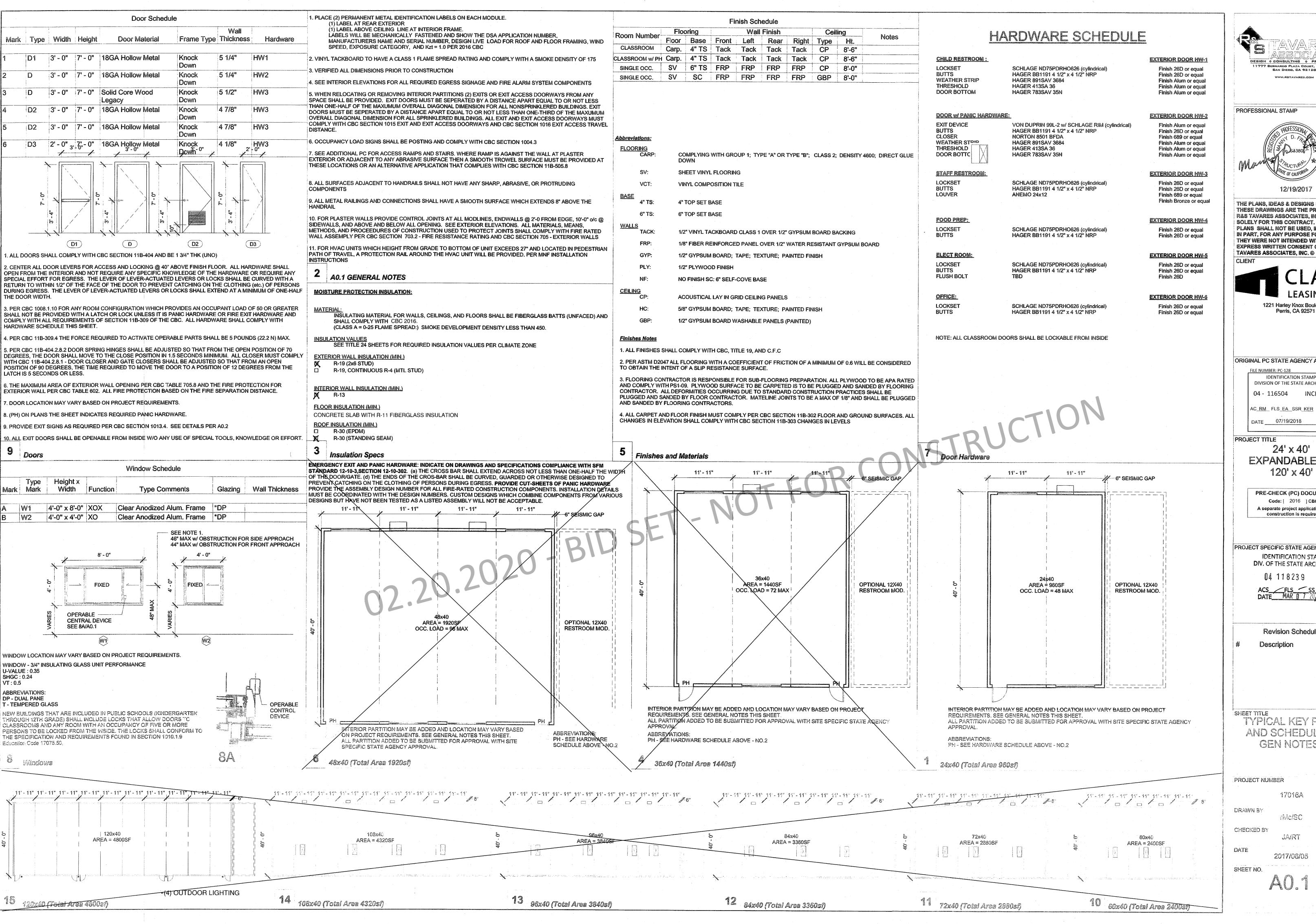
PROJECT OPTIONS SCHEDULE

PROJECT NUMBER 17016A

CHECKED BY JA/RT

2018/03/08

SHEET OF SHEETS



ESIGN & CONSULTING & PROJECT 11777 BERNARDO PLAZA COURT, SUITE 105 SAN DIEGO, CA 92128



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ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504

DATE 07/19/2018

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

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

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

Revision Schedule

TYPICAL KEY PLAN AND SCHEDULES GENNOTES

17016A

JA/RT

2017/06/05

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) 18 in (455 mm)
Ages 5 through 8	40 in (1015 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

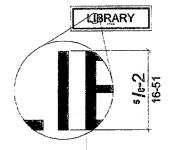


Figure 703.2.5 Height of Raised Characters

TABLE 118-703. Braille dimens	7-7
Measurement Hange	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'	0.300(7.6mm)
Der height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding thats from one cell directly below	0.395 (10 tom) to 0.400 (10.2 mm)

1/32" RAISED SYMBOLS

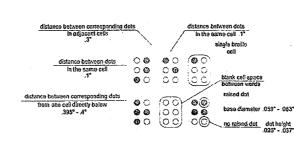
703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

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 Measurement

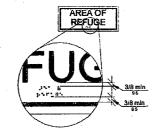


Figure 703.3.2 Position of Braille

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.

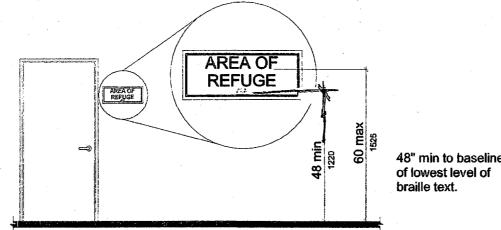


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

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.

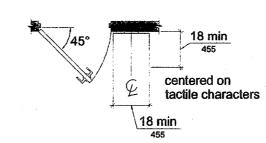


Figure 703.4.2 Location of Tactile Signs at Doors

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.

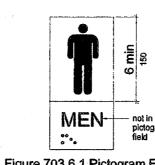


Figure 703.6.1 Pictogram Field cor cons. dark-on-light.



DETAIL REFERENCE

DETAIL NUMBER

- PAGE NUMBER

CONCRETE

MASONRY

EARTH

ASSISTIVE LISTENING SYSTEM AVAILABLE - PLEASE ASK -

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

MAXMUM OCCUPANCY

SECTION REFERENCE

- SECTION LABEL

- PAGE NUMBER

WOOD BLOCKING

BOTTOM OF FOOTING ELEVATION

CONTINUOUS WOOD

0.00' FIN. FLR. ELEV.

S-S STEPPED FOOTING

PERSONS

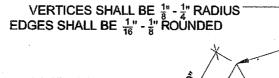
OCCUPANT LOAD SIGN REQUIRED PER DSA BU11-08.

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

MULTIPURPOSE

MEASURED FROM F. F. TO BOTTOM OF TACTILE LETTERING 1/4"=1'-0" DOOR SYMBOLS: CIRLCLE & TRIANGLE1/4" THICK. 1/4" THICK TRIANGLE SHALL BE

UNISEX AND GENDER NEUTRAL RR.

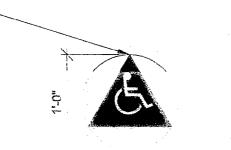


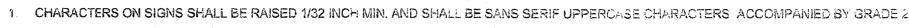
1'-0"

RESTROOM DOOR SIGN

RESTROOM

WALL SIGN



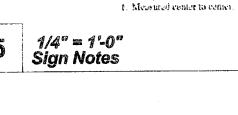


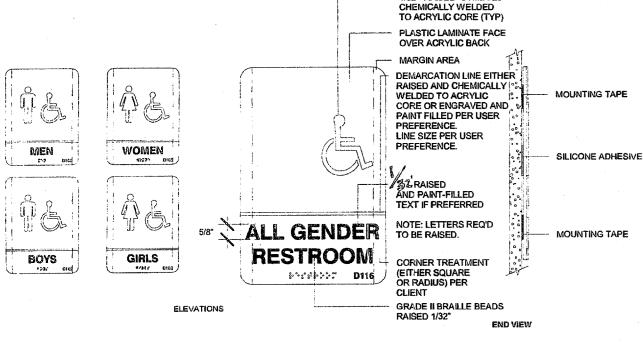
2. RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH AND A MAXIMUM OF 2 INCHES HIGH

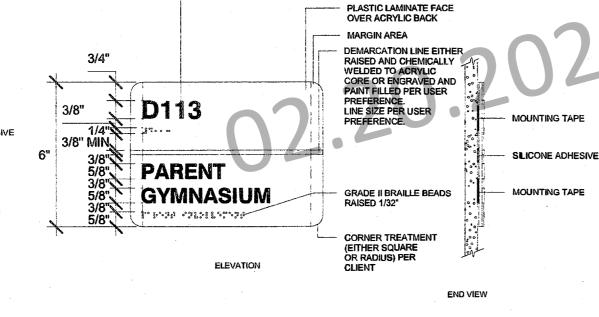
3. CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703-5.1.

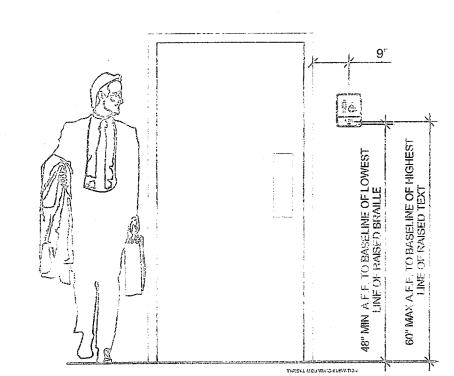
4. TRIANGLE OR CIRCLE SMALL CONTRAST WITH DOOR. EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. 11B-703.7:2.6.1 AND 11B-703.2.2.6.2

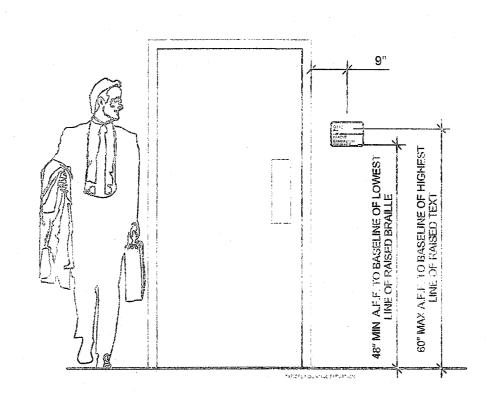
5. CHARACTERES ON SIGN SHALL HAVE A WIDTH-TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. SEE 11B.703.2.4

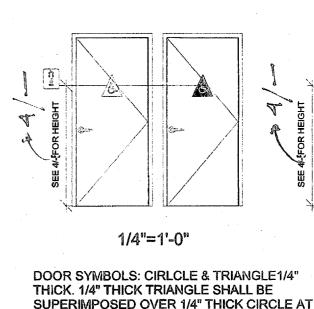


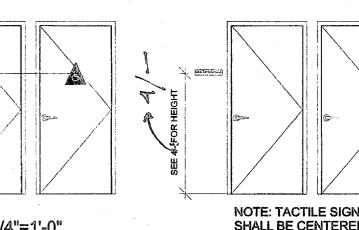












NOTE: TACTILE SIGN TEXT SHALL BE CENTERED 18" **CLEAR FROM STRIKE OF**

> SHEET TITLE SIGNAGE AND SYMBOLS

DESIGN & CONSULTING & PROJEC

PROFESSIONAL STAMP

1777 BERNARDO PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128

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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 APPROVÁL

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

04 118239

ACS___FLS___S

Revision Schedule

DATE MAR 0 7

Description

AC RM FLS EA SSR KER

DATE 07/19/2018

PROJECT TITLE

ILE NUMBER: PC-128

EXPRESS WRITTEN CONSENT OF R&S

TAVARES ASSOCIATES, INC. ©

SOLELY FOR THIS CONTRACT. THESE

PROJECT NUMBER

DRAWN BY

rMc/SC CHECKED BY

JAVRT DATE 2017/06/05

SHEET NO.

17016A

1/2" = 1'-0" Signage

		<u>.</u> [
A	DSA	Li
02.236154	DIVISION OF THE STATE ARCHI	

2013 CBC.

+ OTHER

DSA-103 Issued 12/30/2016 ist of Required Structural Tests & pecial 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 2016 edition of the California Building Code (CBC) unless otherwise noted. CODE REFERENCE AND NOTES TEST OR SPECIAL INSPECTION + SOILS Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13 + CONCRETE TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 + MASONRY Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 - STEEL, ALUMINUM - 17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES Material Verification: a. Verify identification of all materials and 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2. AISI · Mill certificates indicate material properties that comply with Periodic S200-12 Section A3, AISI S220-11 Section A4, * By special inspector or qualified technician when requirements. performed off-site. Material sizes, types and grades comply with requirements
 Test
 LOR
 2203A.1 (2203.1*

 Periodic
 SI
 DSA IR 17-3.
 b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used. e. Verify and document steel fabrication per DSA epproved SI Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). Periodic construction documents 18. HIGH STRENGTH BOLTS: 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structurel steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. 19. WELDING: (See Appendix for exemptions.) Verification of Materials, Equipment, Welders, etc: a. Verify weld filler material identification markings per AWS Periodic SI DSA IR 17-3. designation listed on the DSA approved documents and the WPS. b. Verify weld filler material manufacturer's certificate of Periodic SI DSA IR 17-3. compliance. K c. Verify WPS, welder qualifications and equipment. Periodic SI DSA IR 17-3. 19.1 SHOP WELDING: a. Inspect groove welds, multi-pass fillet welds, single pass fillet SI Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. welds > 5/16", plug and slot welds 1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable). X b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds Periodic SI 1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. C. Inspect welding of stairs and railing systems. SI 1705A.3.1; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3. Periodic d. Verification of reinforcing steel weldability other than ASTM A706 1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 17e. Inspect welding of reinforcing steel. 4 19.2 FIELD WELDING: 20. NONDESTRUCTIVE TESTING:
 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. ANSWASNT

 Test
 LOR
 CP-189, SNT-TC-1A. DSA IR 17-2.

 Test
 LOR
 X a. Ultrasonic b. Magnetic Particle 21. STEEL JOISTS AND TRUSSES:
 22. SPRAY APPLIED FIRE-PROOFING: - 23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL: LOR IR 17-11 Sample and test anchor bolts and anchor rods not reedily identifiable. a. Anchor Bolts and Anchor Rods LOR Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11 b. Threaded rod not used for foundation anchorage. + WOOD

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.

	DSA List of Required Structure of General Structure Special Inspections			INCREMENT# DSA File No.: ## ## Application No.: ## Date Submitted: ## Revised: ##
me lool			District	
spection this factorial this factori	TANT: This form is only a summary list of structural tests and some of the ions required for the project. Generally, the structural tests and special inspform are those that will be performed by the Geotechnical Engineer of Record, or Special Inspector. The actual complete test and inspection program est as detailed on the DSA approved documents. The appendix at the bottons work NOT subject to DSA requirements for special inspection or structural inspector is responsible for providing inspection of all facets of construction ted to special inspections not listed on this form such as structural wood find diaphragms, cold-formed steel framing, anchorage of non-structural cores 24, Part 2, Chapter 17A. This form is also available for projects submitted for review under the 2007 BC.	ections noted ord, Laboratory must be om of this form al testing. The including but aming, high- mponents, etc.,	special depend your sel can be "COMP	JCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional yests a 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.
	Note: References are to the 201	6 edition of the C		liding Code (CBC) unless otherwise noted.
-	QUIRED TEST OR SPECIAL INSPECTION	Type	REFERE	GODE REFERENCE AND NOTES
-	1. GENERAL:	Table 1705A.	6	
X	a. Verify 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.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	2. COMPACTED FILLS:	Table 1705A.		
	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.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	Test Table 1705A.	LOR*	* Under the supervision of the geotechnical engineer.
÷	3. DRIVEN DEEP FOUNDATIONS (PILES): 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIER	· · · · · · · · · · · · · · · · · · ·	7 Table 170	5A.8
+	5. RETAINING WALLS: \	<u> </u>		
+	6. OTHER SOILS:			
•	CONCRETE	Table 1705A.3,	ACI 318-14	Sections 26.12 & 26.13
-	7. CAST IN PLACE CONCRETE		····	· · · · · · · · · · · · · · · · · · ·
	Material Verification and Testing:	T	T	Table 1705A.3 item 5, 1910A.1 (1909.2.3*). * To be performed by qualified batch-plent inspector an
X	a. Verify use of required design mix.	Periodic	SI*	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	Test	LOR	Table 1705A.3 item 8; ACI 3/8-14 Sections 26.5 & 26.12
	determine the temperature of the concrete.	Tool	LOB	10050 4 40 4000 0 7h ad 000 44 0 5 00 40
X	d. Test concrete (f _c).	Test	LOR	1905A.1.16 (1909.3.7'); A&I 318-14 Section 26.12.
x	e. Batch plant inspection Continuous Periodic f. Not used.	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 Appendix for exemptions.)
	· · · · · · · · · · · · · · · · · · ·			/
	g. Not used.	Drovide consist	nenostice	r STEEL instance 10 1(d) & (a) and/or 10 2(a) & (b) halour
	h. Welding of reinforcing steel.	Frovide special i	nishening be	r STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.
	I. Not used.	<u> </u>	L	
	PRESTRESSED CONCRETE (in addition to 0 PRECAST CONCRETE (in addition to Cast in 10. SHOTCRETE (in addition to Cast in Place Co	Place Conc	rete test	s and inspections):
+ + + -	11. POST-INSTALLED ANCHORS:			
+ + -		See Notes	SI*	Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14
+ + - X	a. Inspect installation of post-installed anchors	_ \		Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D
+ + - X	a. Inspect installation of post-installed anchors b. Test post-installed anchors.	See Notes Test	SI*	Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.)
+ + - X X +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE;	Test	LOR	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D
+ + - X X + +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY	Test	LOR	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5
+ + - X X +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM	Test TMS 402-13/AC Table 1705A 2.	LOR CI 530-13/AS 1, AISC 303-	CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
+ + - X X +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification:	Test TMS 402-13/AC Table 1705A 2.	LOR CI 530-13/AS 1, AISC 303-	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
+ + - X X + +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with	Test TMS 402-13/AC Table 1705A 2.	LOR CI 530-13/AS 1, AISC 303-	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform
* * * * * * * * * * * * * * * * * * *	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements.	Test TMS 402-13/AC Table 1705A 2. EL, AND ALL	LOR 21 530-13/AS 1, AISC 203-	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site.
* * * * * * * * * * * * * * * * * * *	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials	Test TMS 402-13/AC Table 1705A 2. EL, AND ALC Periodic Test	LOR 21 530-13/AS 1, AISC 203- 1, MINUM LOR	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site. 2203A.1 (2203.1*).
*	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements.	Test TMS 402-13/AC Table 1705A 2. EL, AND ALL	LOR 21 530-13/AS 1, AISC 203-	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site.
*	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes	Test TMS 402-13/AC Table 1705A 2. EL, AND ALC Periodic Test	LOR 21 530-13/AS 1, AISC 203- 1, MINUM LOR	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site. 2203A.1 (2203.1*).
x x x + +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used. e. Verify and document steel fabrication per DSA approved	Test TMS 402-13/AC Table 1705A 2. EL, AND ALC Periodic Test	LOR 21 530-13/AS 1, AISC 203- 1, MINUM LOR	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site. 2203A.1 (2203.1*).
* * * * * * * * * * * * * * * * * * *	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEIN Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used. e. Verify and document steel fabrication per DSA approved construction documents.	Test TMS 402-13/AC Table 1705A 2. EL, AND ALC Perlodic Test Perlodic	LOR LOR JAISC 303- JMINUM LOR SI	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site. 2203A.1 (2203.1*). DSA IR 17-3.
* +	a. Inspect installation of post-installed anchors b. Test post-installed anchors. 12. OTHER CONCRETE; MASONRY STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEI Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used. e. Verify and document steel fabrication per DSA approved	Test TMS 402-13/AC Table 1705A 2 EL, AND ALL Periodic Test Periodic	LOR LOR JAISC 303- JMINUM LOR SI	Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by D 1910A.5 (1909.2.7*). (See Appendix for exemptions.) CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 USED FOR STRUCTURAL PURPOSES 2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when perform off-site. 2203A.1 (2203.1*). DSA IR 17-3.

This form is also available for projects submitted for review under the 2007 BC.			
	6 edition of the C		ullding Code (CBC) unless otherwise noted.
culted TEST OR SPECIAL INSPECTION	TYPE	PE BE	CODE REFERENCE AND NOTES
SOILS	/*	/ 96° 9	<u>*</u>
1. GENERAL:	Table 1705A	6	
a. Verify 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	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
reached proper material and materials below footings are adequate to achieve the design			
bearing capacity. 2. COMPACTED FILLS:	Table 1705A.	<u> </u>	<u> </u>
a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
Verify use of proper meterials, densities end inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
c. Test compaction of fill.	Test	LOR*	* Under the supervision of the geotechnical engineer.
3. DRIVEN DEEP FOUNDATIONS (PILES): 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIER	Table 1705A.	7 Table 17	05A.8
5. RETAINING WALLS: \			
6. OTHER SOILS:	Table 1705A.3.	ACI 318-14	Sections 26.12 & 26.13
7. CAST IN PLACE CONCRETE			
Material Verification and Testing:		T	Table 1705A.3 item 5, 1910A.1 (1909.2.3*). * To be performed by qualified batch-plent inspector and
a. Verify use of required design mix.	Periodic	SI*	concrete sampling technician
b. Identify, sample, and test reinforcing steel. c. During concrete placement, fabricate specimens for strength	Test	LOR	1910A.2 (1909.2.4*); ACI 318-14 Section 26.6.1.2. DSA IR 17-10
tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 item 6, ACI 318-14 Sections 26.5 & 26.12
d. Test concrete (f _c).	Test	LOR	1905A.1.16 (1909.3.7'); A&I 318-14 Section 26.12.
Inspection:	T	T	Default of 'Continuous' per 1705A.3.3; If approved by DSA, batch plant inspection may be reduced to
e. Batch plant inspection • Continuous • Periodic	See Notes	SI	Periodic' subject to refuirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
f. Not used.			
g. Not used.			
h. Welding of reinforcing steel.	Provide special i	inspection pe	er STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.
i. Not used.	1.	<u></u>	
8. PRESTRESSED CONCRETE (in addition to 0 9. PRECAST CONCRETE (in addition to Cast in			
10. SHOTCRETE (in addition to Cast in Place Co			
11. POST-INSTALLED ANCHORS:	1	[·	Table 1705A 3 Hom As (Continuous) P Ab (Desiredia) (see Asserting to the Asserting Asserting to the Asserting Asserting to the Asserting to th
a. Inspect installation of post-installed anchors	See Notes	Si*	Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by DSA.
b. Test post-installed anchors.	Test	LOR	7910A.5 (1909.2.7*), (See Appendix for exemptions.)
12. OTHER CONCRETE;	. \		,
IMASONRY	TMS 402-13/AC	CI 530-13/A	CE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5
MASONRY STEEL, ALUMINUM	1		SCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 3-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
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STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials	Table 1705A 2. EL, AND ALL Perlodic Test	1, AISC 303	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 when performed off-site. 2203A.1 (2203.1*).
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STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used. e. Verify and document steel fabrication per DSA approved	Table 1705A 2. EL, AND ALL Perlodic Test	1, AISC 303	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 when performed off-site. 2203A.1 (2203.1°).
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used.	Periodic Test Periodic	1, AISC 303	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
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STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: 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:	Periodic Periodic Periodic	1, AISC 303	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verify identification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: d. Not used. e. Verify and document steel fabrication per DSA approved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING:	Periodic Periodic Periodic	1, AISC 303	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: 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 weld filler material identification markings per AWS	Periodic Periodic Periodic Periodic Periodic	LOR SI	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: 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 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 compliance. c. Verify WPS, welder qualifications and equipment.	Periodic Periodic Periodic Periodic Periodic Periodic Periodic Periodic	LOR SI	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-3.
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end:	Periodic	LOR SI SI SI	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-3. DSA IR 17-3.
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T. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection: 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 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 compliance. c. Verify WPS, welder qualifications and equipment. 19.1 SHOP WELDING: a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds b. Inspect single-pass fillet welds ≤ 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 e. Inspect welding of reinforcing steel.	Periodic	SI S	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-3. DSA IR 17-3. Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1. Per AISC 380 10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. 1705A.2.1. Per AISC 380 10 (and AISC 341-10 as applicable). AWS D1.4. DSA IR 17-3.
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine searn welds of HSS shapes Inspection: 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 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 compliance. c. Verify WPS, welder qualifications and equipment. 19.1 SHOP WELDING: a. Inspect groove welds, multi-pass fillat welds, single pass fillet welds > 5/16", floor and roof deck welds c. Inspect single-pass fillet welds ≤ 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 a. Inspect welding of reinforcing steel.	Periodic	SI S	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-3. DSA IR 17-3. Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1. Per AISC 380-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. 1705A.2.1. Per AISC 380-10 (and AISC 341-10 as applicable). AWS D1.4. DSA IR 17-3.
T. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end:	Periodic Continuous Periodic	SI S	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-3. DSA IR 17-3. DSA IR 17-3. DSA IR 17-3. Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1. Per AISC 360 10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. 1705A.3.1; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3. 1705A.3.1, Table 1705A.3 Item 5a1-4. Pet AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.3.1, Table 1705A.3 Item 5a.5. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.3.1, Table 1705A.3 Item 5a1-4. Pet AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. Table 1705A.2.1 Item 5a1-4. Pet AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification: a. Verify identification of all materials end:	Periodic Continuous Periodic Continuous Continuous	SI S	USED FOR STRUCTURAL PURPOSES 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 when performed off-site. 2203A.1 (2203.1*). DSA IR 17-3. Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) DSA IR 17-3. DSA IR 17-3. DSA IR 17-3. Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1. & D1.3. DSA IR 17-3. 1705A.3.1; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3. 1705A.3.1, Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.3.1, Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1. Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
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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

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 resting. 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.,

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

d. Verification of reinforcing steel weldability other than ASTM A706

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

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

designation listed on the DSA approved docume

construction documents.

18. HIGH STRENGTH BOL

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

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

d. Inspect floor and roof deck welds

e. Inspect welding of structural cold-formed steel

f. Inspect welding of stairs and railing systems g. Verification of reinforcing steel weldability

20. NONDESTRUCTIVE VESTING:

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

Inspect welding of reinforcing steel.

X a. Ultrasonic
X b. Magnetic Particle

+ 21. STEEL JOISTS AND TRUSSES 22. SPRAY APPLIED FIRE-PROOFING:

a. Anchor Bolts and Anchor Rods

+ WOOD + OTHER

bend test)

c. Inspect welding of stairs and railing systems.

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

District

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

Test /LOR

THE EXAMPLE OF FORM DSA-1USS SHOWN ON THIS SMEET ARE FOR ILLUSTRATION PURPOSE ONLY. 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

 Test
 LOR
 2203A.1 (2203.1°

 Periodic
 SI
 DSA IR 17-3.

Periodic SI DSA IR 17-3.

Periodic SI DSA IR 17-3.

Periodic Si DSA IR 17-3.

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

CODE REFERENCE AND NOTES

TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.4.3 & TMS 602-13/ACI 530.1-13/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.)

Test LOR 1705A.2.1 & 1705A.2.5. AISC 360-10
Test LOR CP-189, SNT-TC-1A. DSA IR 17-2.

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 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.

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, AISI S220-11 Section A4. By special inspector or qualified technician when performed

1705A.2.5, Table 1705A.2.1 Rems 4 & 6; DSA IR 17-3, AWS D1.1 and AWS D1.5 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 & D1.5. DSA IR 17.5.

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

Si Table 1709A.2.1 Item 5a.5. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.

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

DSA DSA IR 17-3.

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

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

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

1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA Ite 17-3.

1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 341-10 App. Q 5.2. AWS D1.1, D1.8. ANSWASNY

DSA R 17-3. 170/A.2.5; AWS D1.3. May be performed by the project inspector when specifically approved

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

17-11 Sample and test anchor boits and anchor rods not readily identifiable

Continuous | St | 1705A.3.1, Table 1705A.3 item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. D5A.9R 17-3

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

12/19/201

PROFESSIONAL STAMP

DESIGN & COMEDITING & PROJECT 11797 Stanzene Plaza Somer, State 105 San Dasse, Sa 92 (36

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1221 Harrey Knox Boulevard Perris CA 92571

ORIGINAL POSTATE AGENCY APPROVAL

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

SHEET TITLE PLYWOOD

FLOORS

DRAWN BY

PROJECT NUMBER

CHECKED BY

DE LE

SHEET NO.

6" = 1'-0" DSA-103 PLYWOOD FLOOR (Concrete Foundation)1

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.

6" = 1'-0" DSA-103 PLYWOOD FLOOR (Stockpile)1

6" = 1'-0" DSA-103 PLYWOOD FLOOR (Wood Foundation) (

CAL GREEN NOTES

CONSTRUCTION WASTE MANAGEMENT

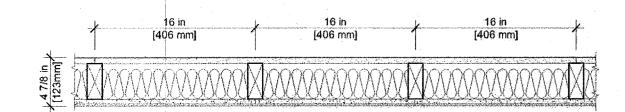
PER 2016 CALGREEN CODE SECTION 5.408.1

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

CONSTRUCTION WASTE

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 DIVERSION
RATE



UL U329 or GAP WP 3441 Interior Partitions -Wood Stud

Fire Rating 1 hr.

ST 40 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)

Sound Test: RAL-TL11-125

Interior Partitions

Fire Rating

STC 10 MIN 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)

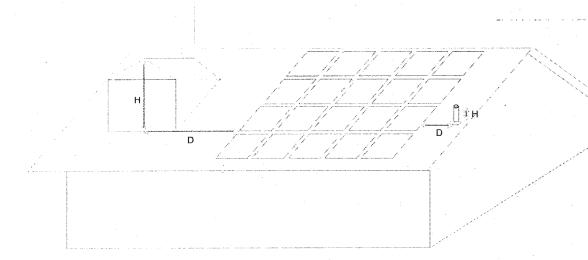
* Batts and Blankets - Min. 3-1/2 in. thick mineral wool batt insulation

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

						SECTION SHEET WATER EFFIC	COMPLIAN		GREEN AND ENERGY CODE O (PC) PERMANENT AND MODULAR RELOCATABLE	LE BUILDING DESIGNS	
							WATER CONSERVING PLUMBING PLUMBING FIXTURE FLOW RATES AR				
							DNSERVATION & RESOURCE	·	pole.		
						5.407.2.2	WATER RESISTANCE AND MOIS	TURE MANAGEMENT:			· · · · ·
						A1.0-1.2	TO DE MIGTALLES SEET ABOUT A	D DEDDE NOW I LD TO THE DOWN DV	IRED INTERIOR DOOR PROTECTION AND INDICATE THE NO INTRANCES.		
						A1.0-1.2,	PLANS AND SECTIONS INDICATE THE A AREA, OR OTHER APPROPRIATE MET	MINIMUM EXTERIOR DOOR PROTECTION	INTRANCES. IN WITH THE LOCATION AND DETAILS FOR A 4 FEET DEEP (AWNING, ROOF OVERHANG,	, RECESSE
						5.407.2.2.2 A4.0.1-4.3	3 ROOF PLANS AND DETAILS INDICATE	FLASHINGS INTEGRATED WITH A DRAIN	NAGE PLANE.		
						5.408.1	PROVIDE A LETTER FROM THE LOCAL		D BY THE MANUFACTURER WHICH SPECIFIES A CONSTRU	ICTION WASTE MANAGEMEN	NT PLAN IDI
									THE NONHAZARDOUS CONSTRUCTION WASTE. SPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE	PROJECT OR SALVAGED F	FOR FUTUR
						5.408.1 PDF	SPECIFIES IF CONSTRUCTION	WASTE MATERIALS WILL BE SORTED	ON-SITE OR BULK MIXED.	- THOUSEN, ON ONE WHOLE I	
							l tomal	CONSTRUCTION WASTE WILL BE TAKE F CONSTRUCTION WASTE IS CALCULATED			·
						<u> </u>		ANY IS ABLE TO PROVIDE VERIFIABLE D	DOCUMENTATION THAT 65% OF CONSTRUCTION WASTE M	ATERIAL WILL BE DIVERTED	O.
						ENVIRONMEN		-			
							POLLUTANT CONTROL ADHESIVES, SEALANTS AND CA	ULKS	maniona survei anno sale survei a nicola survei a national a non a national a national a national a national a		
						7,00	FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	Voc	VOC LIN
						5.504.4.2 A0.5	Indoor Carpet Adhesives	NuBroadLok, Mohawk Inc.	NuBroadLok, Mohawk Inc.	0	
						5.504.4.2 A0.5	Carpet Pad Adhesives Cove Base Adhesives	N/A Interior Base	Henry 440	0	+
		,				5.504.4.3 A0.5 5.504.4.4 A0.5	Multi-purpose Construction Adhesives 1	General General	Liquid Nails - Heavy Duty construction adhesive	70 20	
:							-	General	Hankel - Loctite Light Cure	20	
						5.504.4.2 A0.5	Contact Adhesive	General	Hankel - Loctite Light Cure	20	
. *						5.504.4.1 A0.5		Exterior	Sherwin williams - 850A White	33	
						5.504.4.1 A0.5 5.504.4.1 A0.5	Architectural 2 Single ply roof Membrane	Exterior Roof Caulk/Sealer	Sherwin williams - Shermax clear Tremco - Future Flash Sealant	19 6	-
						5.504.4.3 A0.5	PAINTS AND COATINGS FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	Voc	VOC
							Aerosol Spray Flat Paint	Painted Surface	Krylon Krylon	<60	VOCI
						5.504.4.3 A0.5 5.504.4.3 A0.5		Painted Surface Painted Surface	Sherwin Williams - Pro Mar 200 Zero Dunn Edwards Paints - Acra Hues	50 40	
						5.504.4.3 A0.5	Flat Coatings 3	Painted Surface	Vista Paints	50	
							Wall Material 1	FRP Wall Covering	Glassco		-
							Wall Material 1	Tackable Wall (Non-absorbent)	Chatfield Clarke		
-						5 504 4 4 AO 5	CARPET SYSTEMS				
						0,007,7,4	FINISH	MANUFACTURER	CERTIFICATION C	ORGANIZATION	
			•		And the second s	5.504.4.4 A0.5	Carpet	Mohawk Carpets	Carpet & Rug Institute - Green Label Plus Program	·	+
						5.504.4.5	HARDWOOD PLYWOOD, PARTIC	LEBOARD, FIBERBOARD WOOD P	RODUCTS		
							FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	FORMALDEHYDE	1
						5.504.4.5 A0.5	Plywood	Roof / Floor	APA Rated	EMMISIONS <.05	
						550446 405	RESILIENT FLOORING SYSTEMS				
						5.304.4.6 A0.5		1	CERTIFICATION ORGANIZA	TION	Т
						5 504 4 6 40 5	FINISH Vinyl Composition Title Flooring	MANUFACTURER Armstrong / Imperial	CA Dept. of Public Health's 2010 Standard Method for t		_
							Sheet Vinyl Flooring	Mannington	CA Dept. of Public Health's 2010 Standard Method for t	he Testing	
							FRP Wall Covering Tackable Wall	Glassco Chattfield Clarke	CA Dept. of Public Health's 2010 Standard Method for t CA Dept. of Public Health's 2010 Standard Method for t		1
						5 504 3 M0 1	FILTER SPECIFICATION:	PROTECTION OF MECHANICAL FOLLIPMI	ENT DURING CONSTRUCTION AND SHIPMENT.		
									A MINIMUM MERV 8 FILTER(S) OR HIGHER.		
							INDOOR MOISTURE CONTROL:				· · · · · ·
						5.507.4	ATTIC IS UNVENTED ENVIRONMENTAL COMFORT:				
							EXTERIOR NOISE TRANSMISSIO				-
						5.507.4.1 A0.0	1- WITHIN THE 65 CNEL NOISE CONTO		NANY OF THE FOLLOWING LOCATIONS:		
							2- WITHIN THE 65 CNEL OR LDN NOISI	CONTOUR OF A FREEWAY, EXPRESSY	VAY, RAILROAD, OR INDUSTRIAL SOURCE GUIDEWAY;		
				· · · · · · · · · · · · · · · · · · ·	*	5.507.4.3	3- WHERE EXPOSED TO NOISE LEVEL INTERIOR SOUND TRANSMISSION	OF 65 DB LEQ-1-HR DURING ANY HOUR N:	OF OPERATION."		
				•		5.507.4.3 A0.5	INTERIOR WALLS MEET MINIMUM 40 STC.				
							OUTDOOR AIR QUALITY: HVAC EQUIPMENT DOES NOT CONTAIN CFCS				
							1711				
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DESIGN & GONGBETING PROJECT
11777 CHARANDO PLAZA COURT COME 105
SAN GUISO, CA 92128

PROFESSIONAL STAMP



12/19/2017

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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

PROJECT TITLE

FILE NUMBER: PC-128

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_20197

Revision Schedule

Description

CALGREEN SPEC'S

PROJECT NUMBER

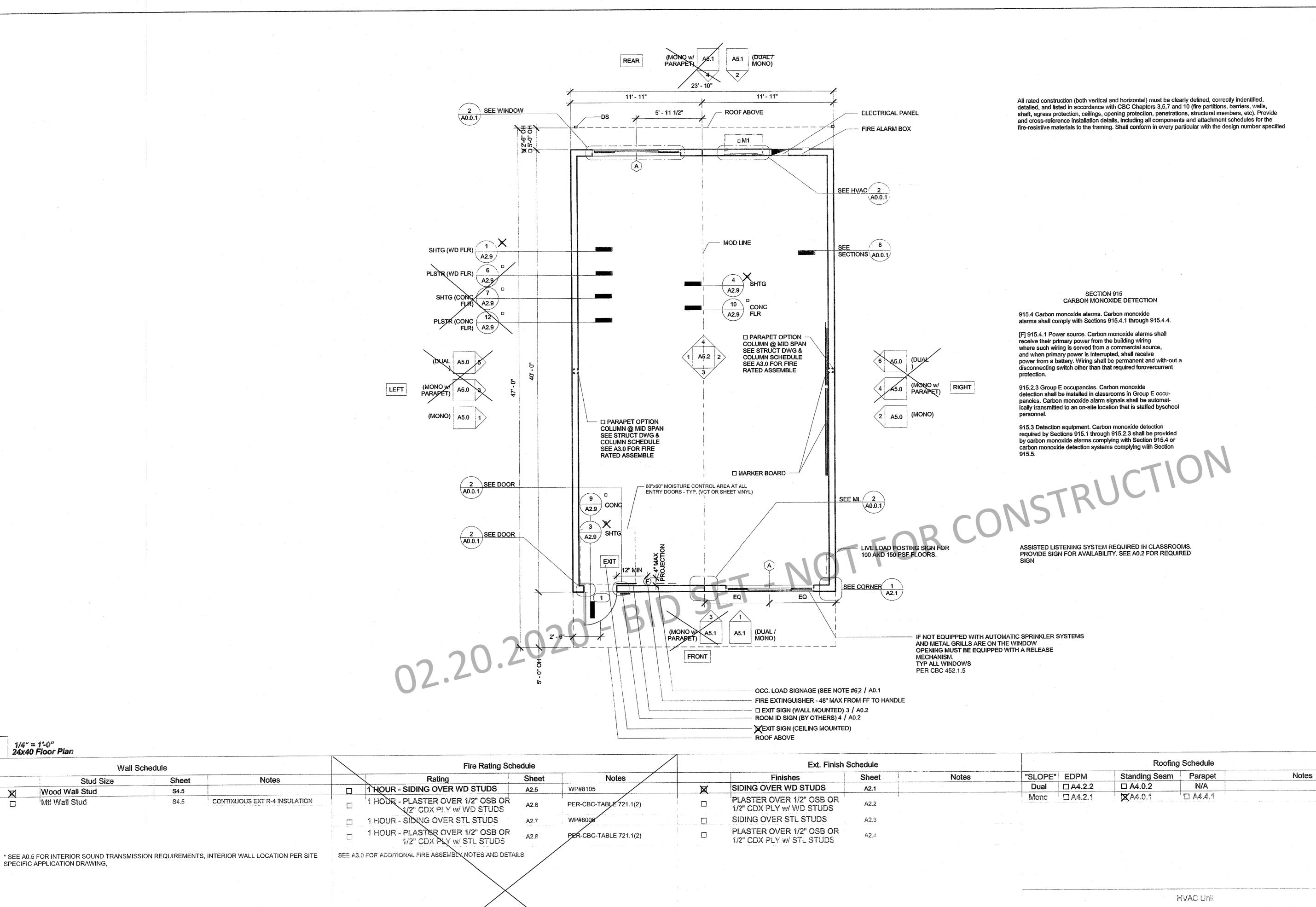
1701**6A** DRAWN **8**Y

JAVKT

DATE 2017/**06/**05

SHEET INC.

AO5



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

S4.5

Notes

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

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

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12/19/2017

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ORIGINAL PC STATE AGENCY APPROVAL

ILE 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 1 7 2019/

Revision Schedule Description

24x40 FLOOR PLAN

PROJECT NUMBER

17016A

DRAWN B

Type Comments

See (M)-Sheets See (M)-Sheets

Type

Wall Mounted HVAC

Roof Mounted HVAV

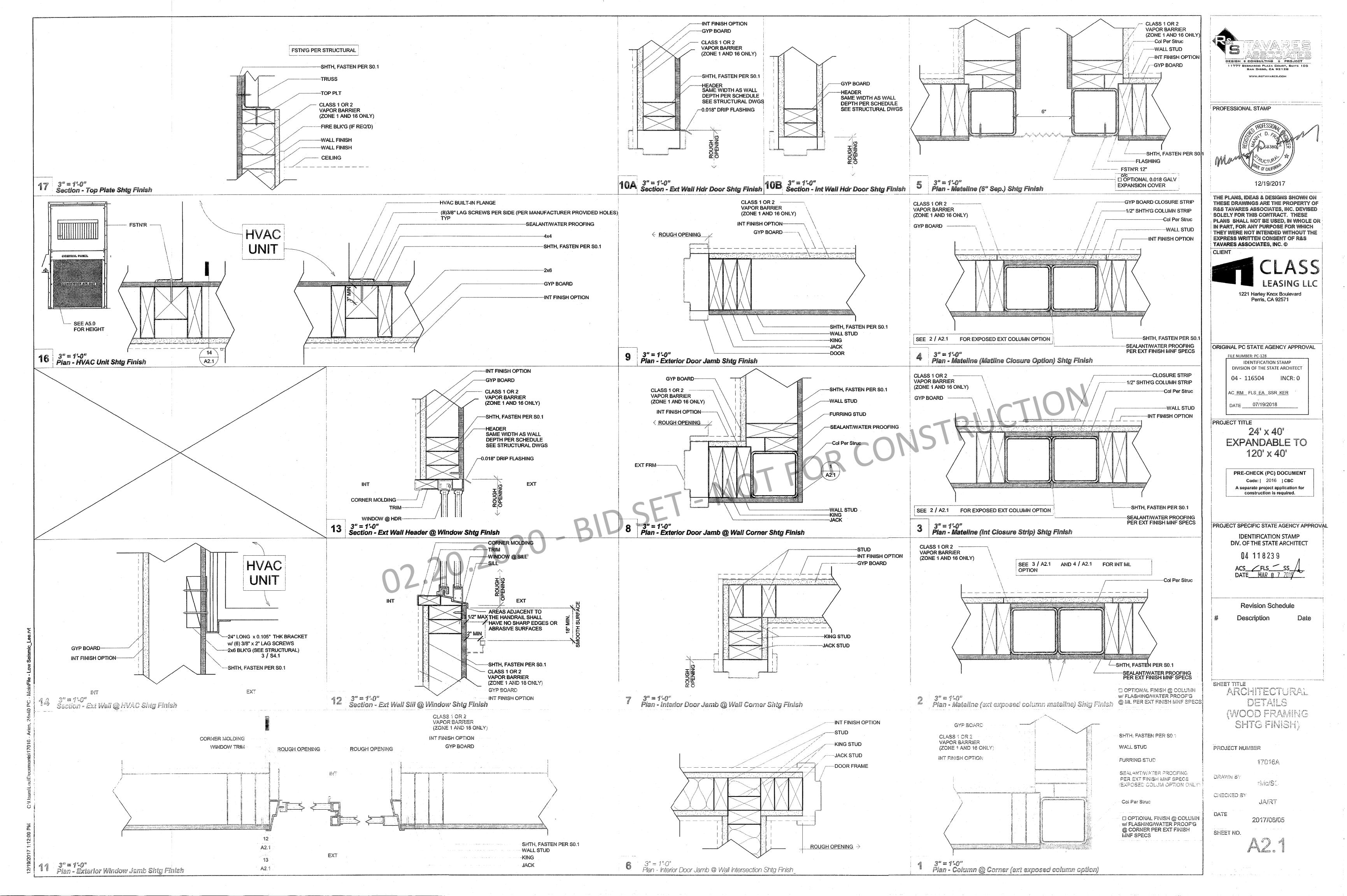
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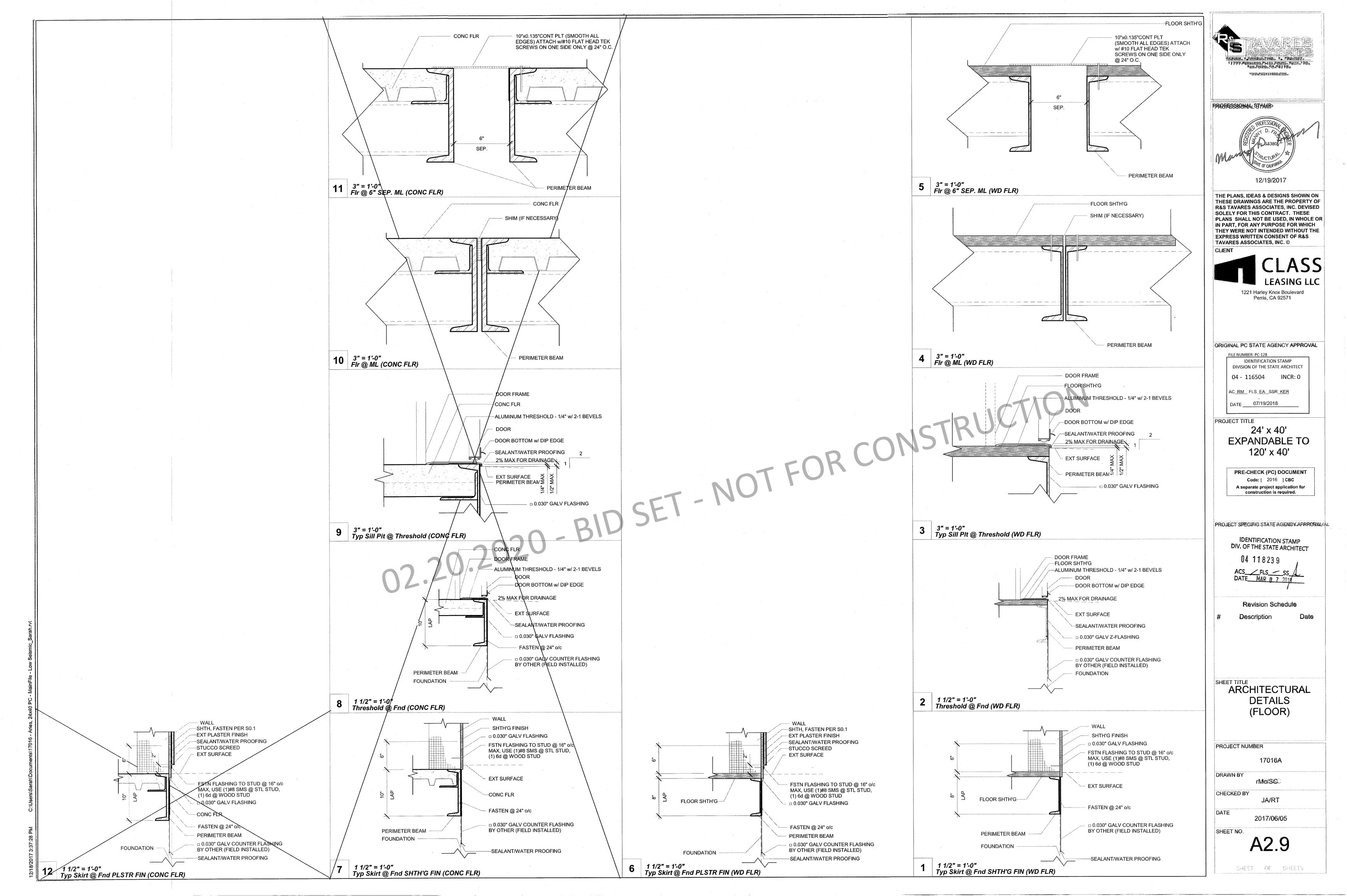
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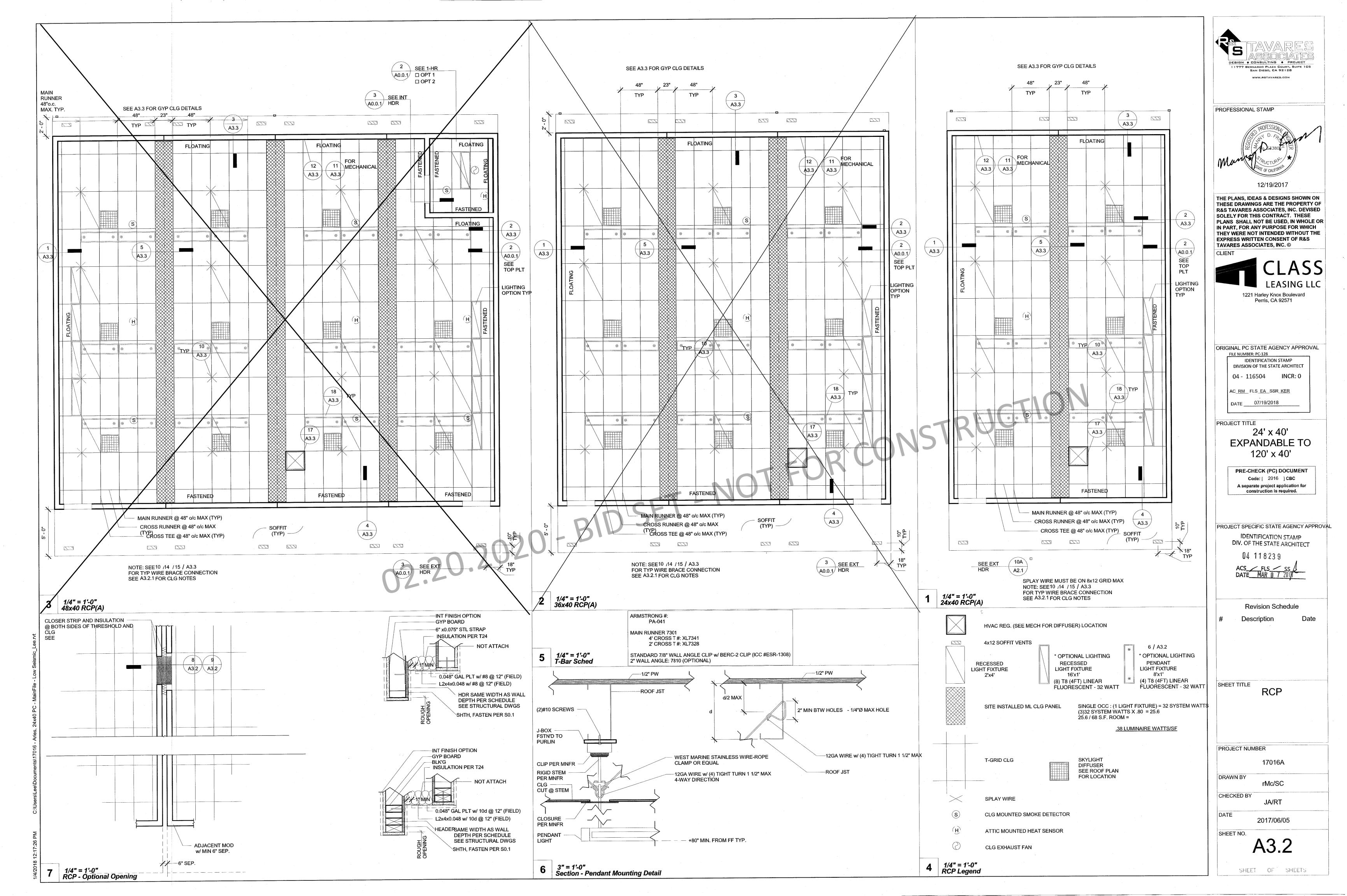
CHECKED BY

DATE 2017/06/05

SHEET NO.







1.	CEILING SYSTEM GENERAL NOTES:
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

Manufacturer's Name	ARMSTRONG			
Product Evaluation Repor	t Type and Number	PA-041	<u>.</u> .	
Manufacturer's Model Nur	• •	7301	 ,	(SEE A3.2)
Manufacturer's catalog nu		4' CROSS T #: XL7	341	
•		2' CPOSS T #: XL7	328	

2' CROSS T #: XL7328 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:

information that follows l

- 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 strength = 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		

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.

s Document:	DSA IR 25-2.13			Sheet No:
et Title:		rev.	09-21-15	1 4 04
Ceiling Notes				1.01

DSA IR 25-2.13 - Appendix A (rev 09/21/15) 02.20.2020 - BID SET - NOT FOR CL

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:		re	v.	09-21-15	4.00
Ce	iling Notes				1.02
	9				

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

8. OTHER DEVICES WITHIN THE CEILING:

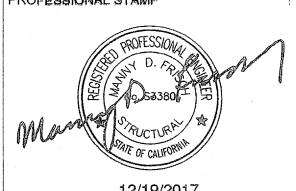
Basis Document: DSA IR 25-2.13

Ceiling Notes

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 from the structure above.

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

PROFESSIONAL STAMP



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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

Sheet No:

09-21-15

rev.

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 APPROVALVA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

Revision Schedule

ACS___FLS___SS_/h DATE MAR 0 7 20/9

Description

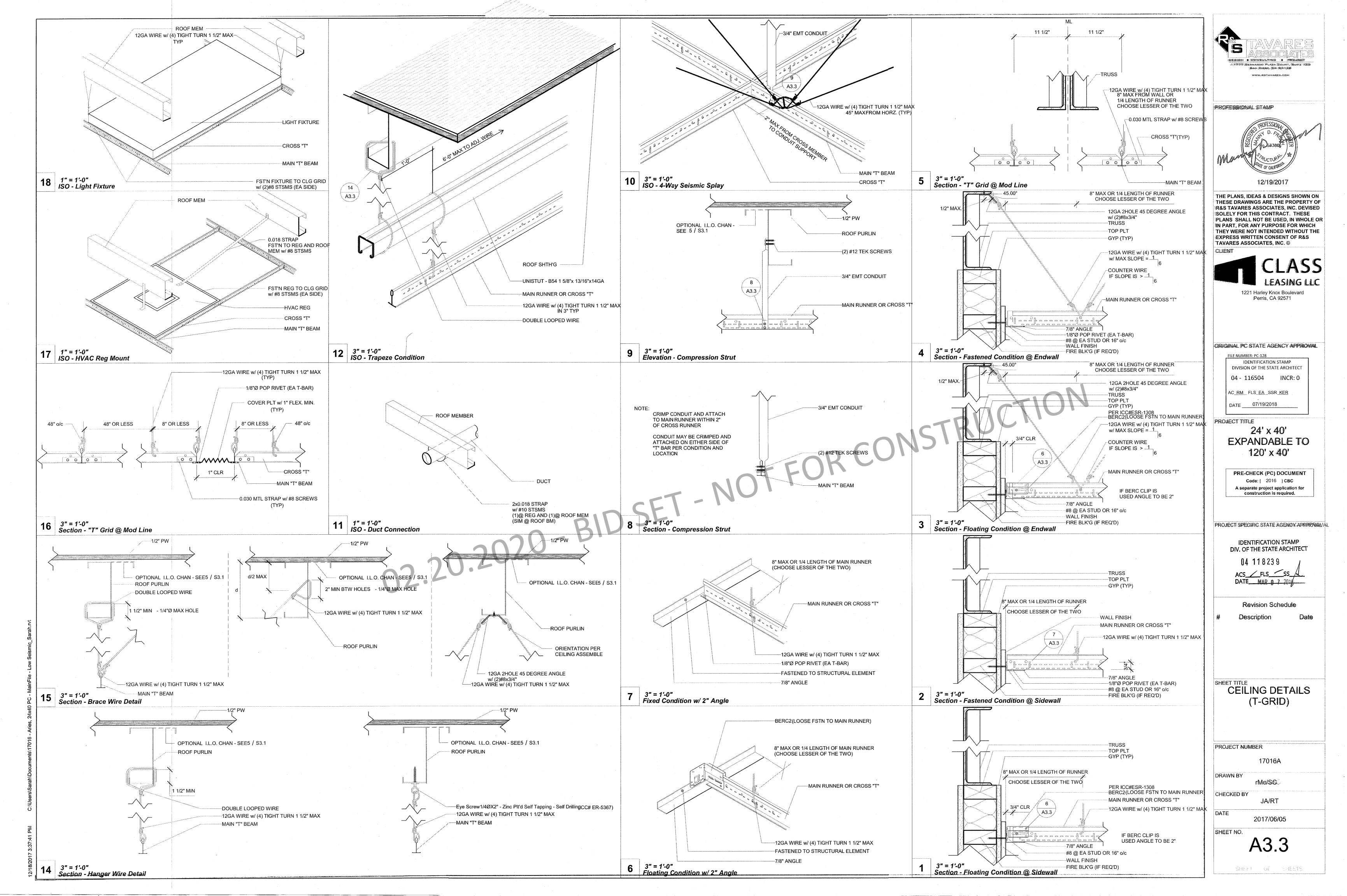
CEILING NOTES

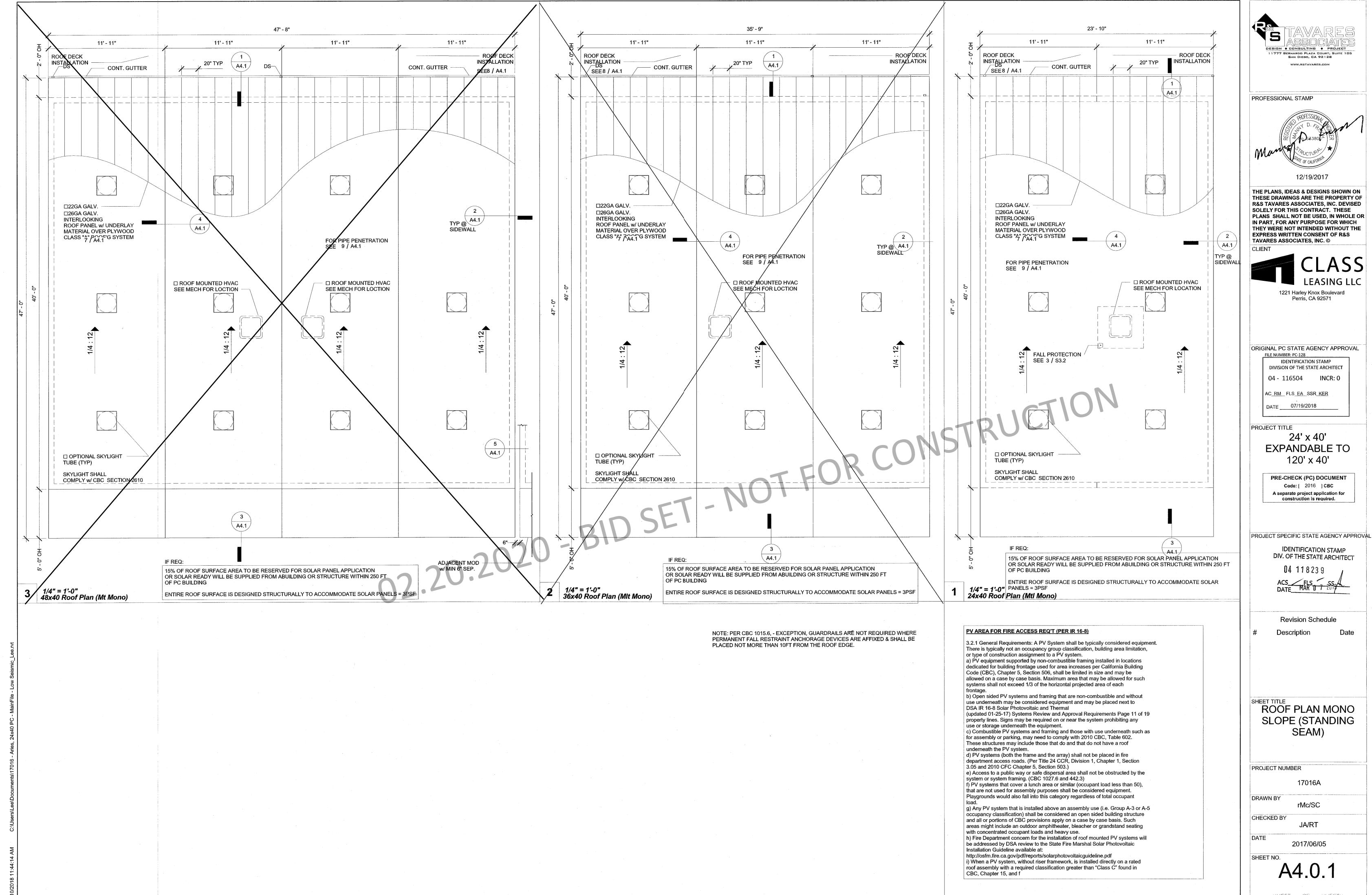
PROJECT NUMBER

17016A

CHECKED BY

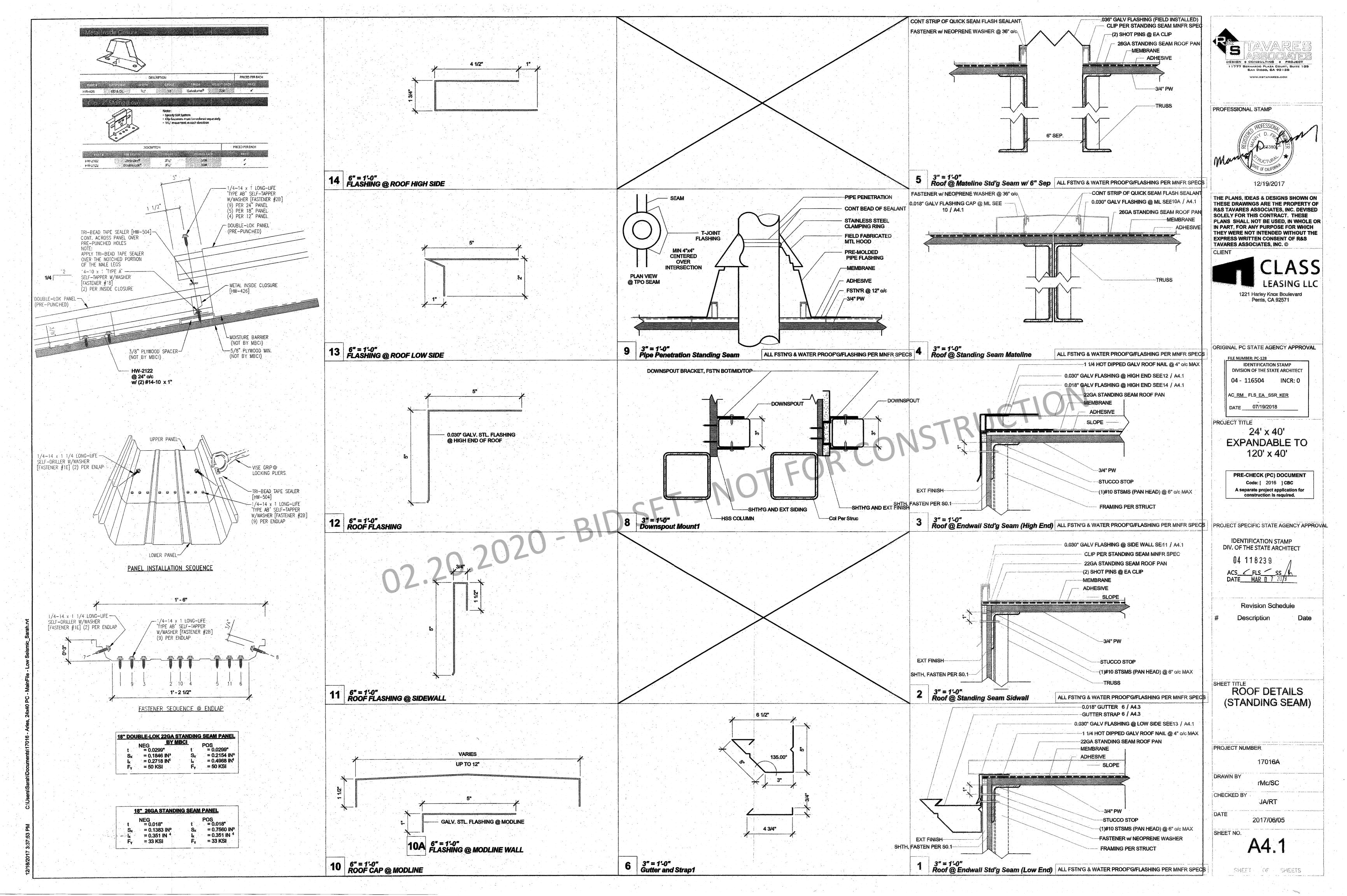
2017/06/05

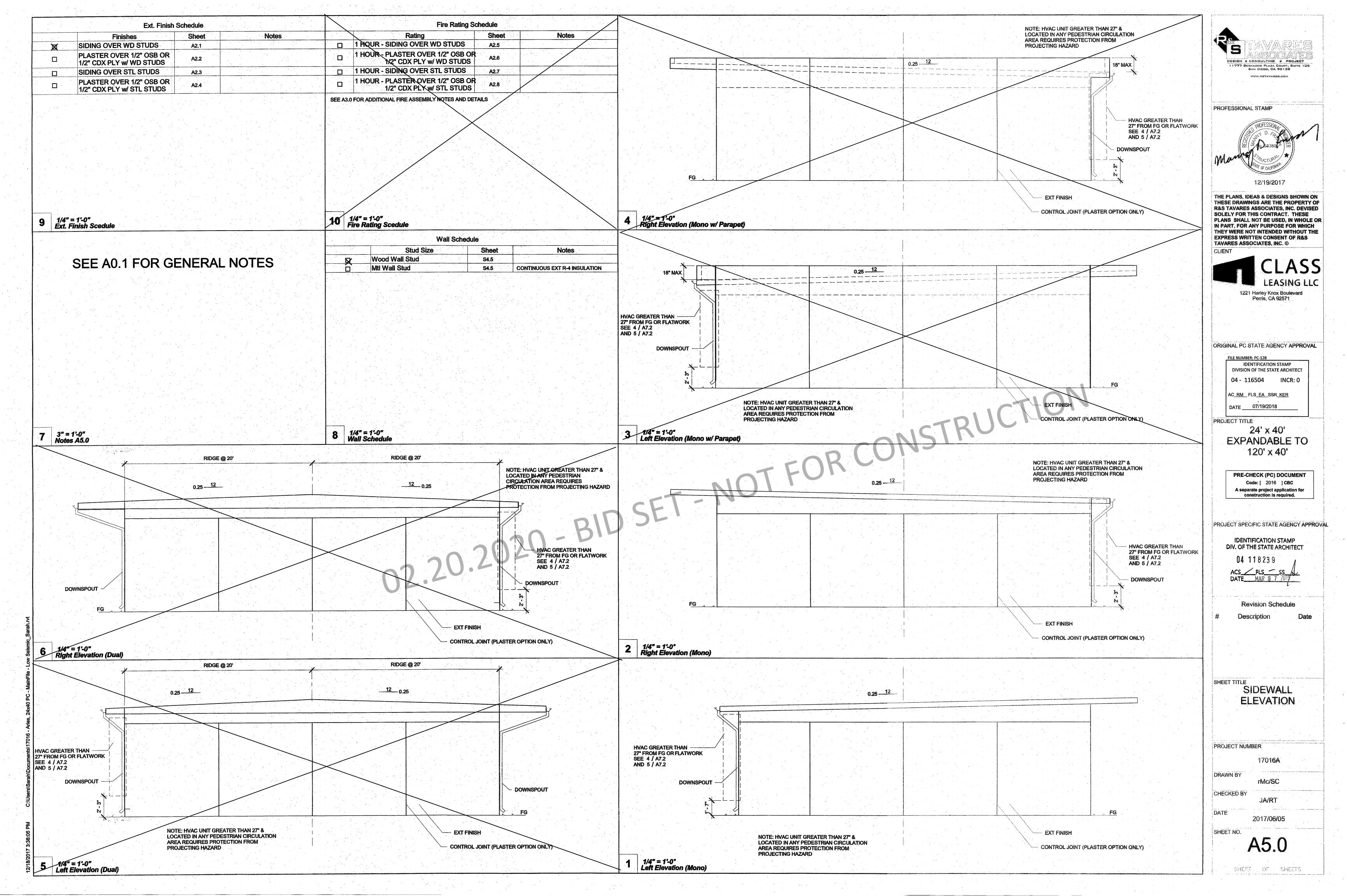


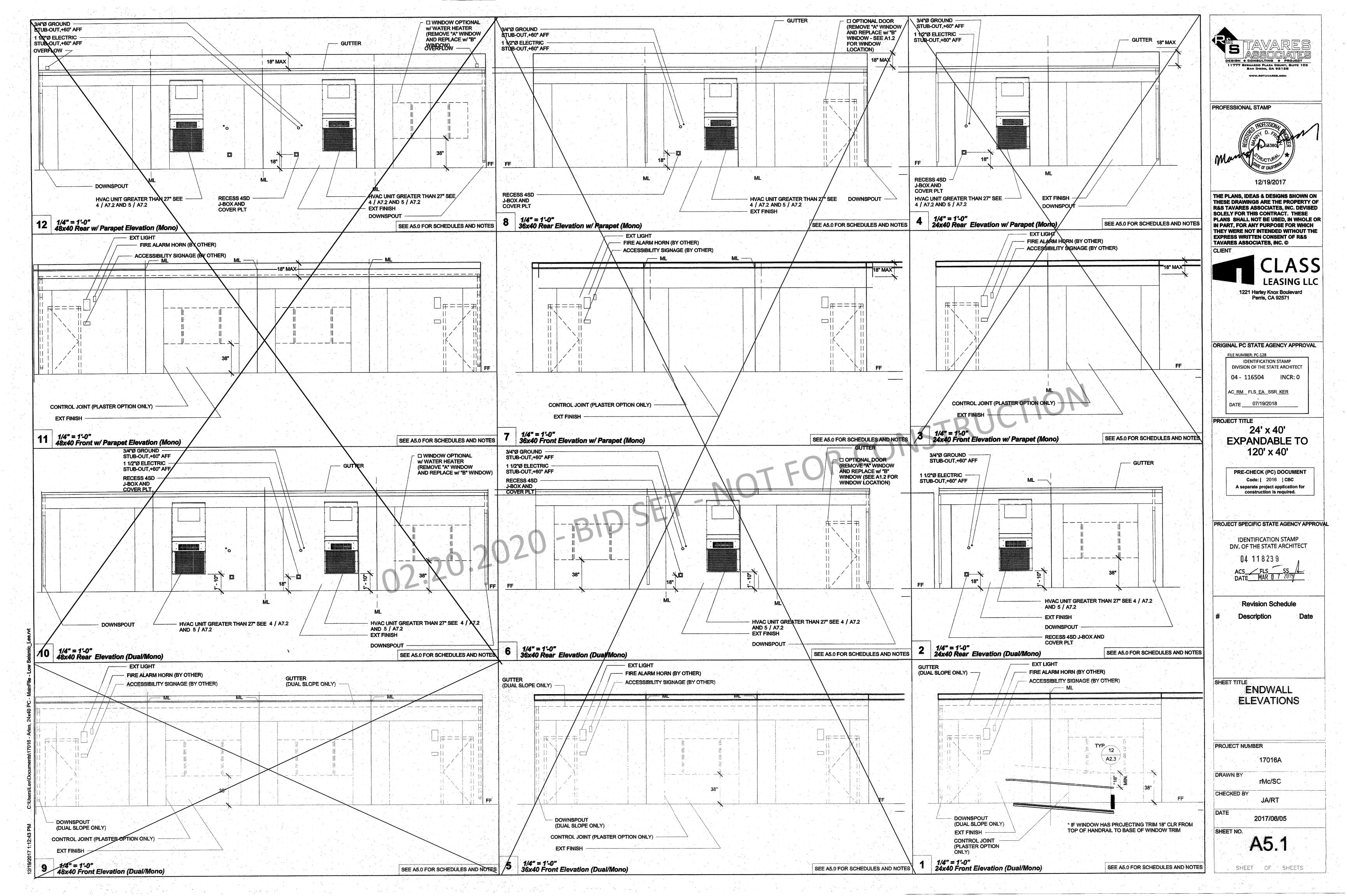


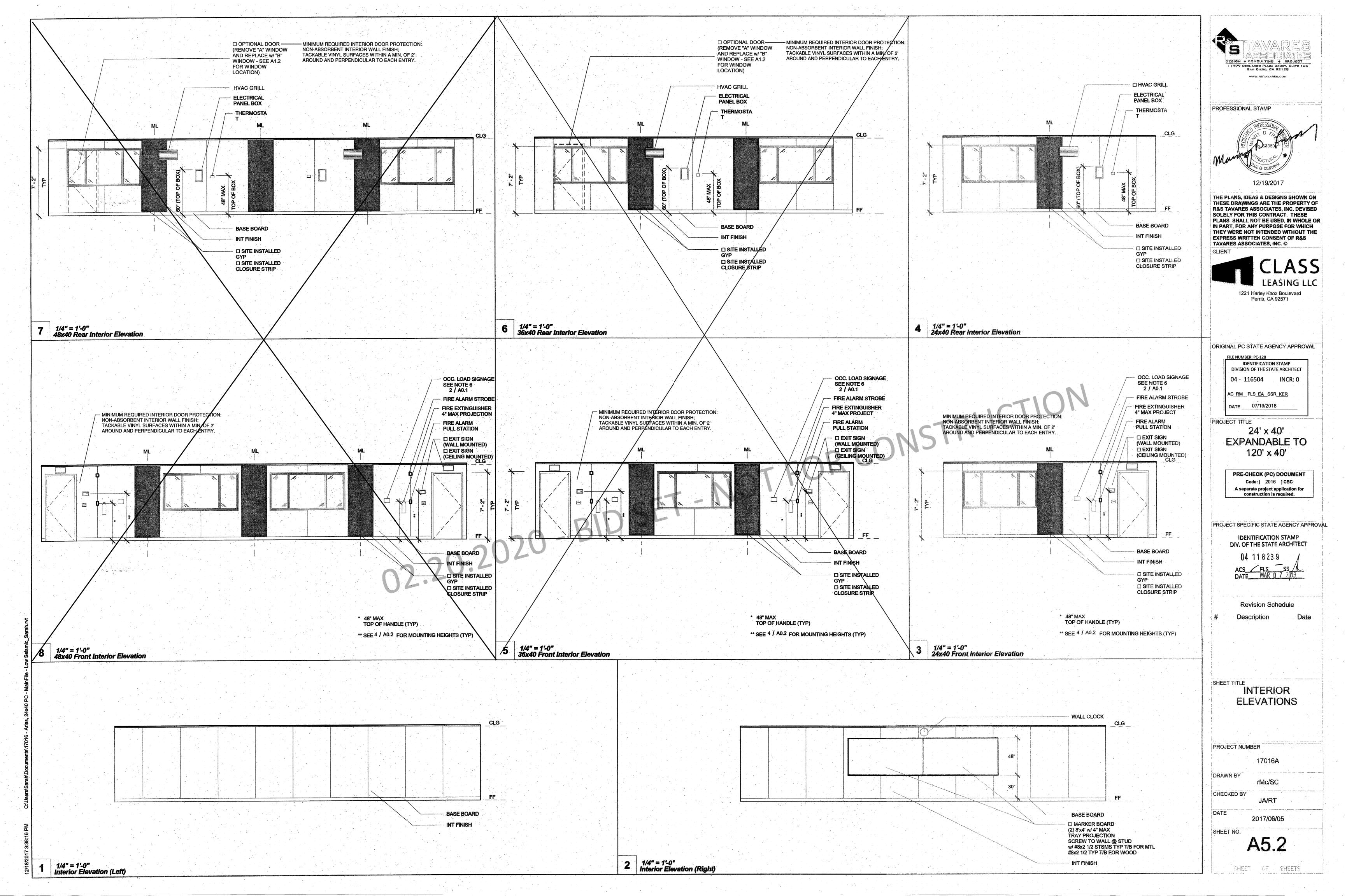


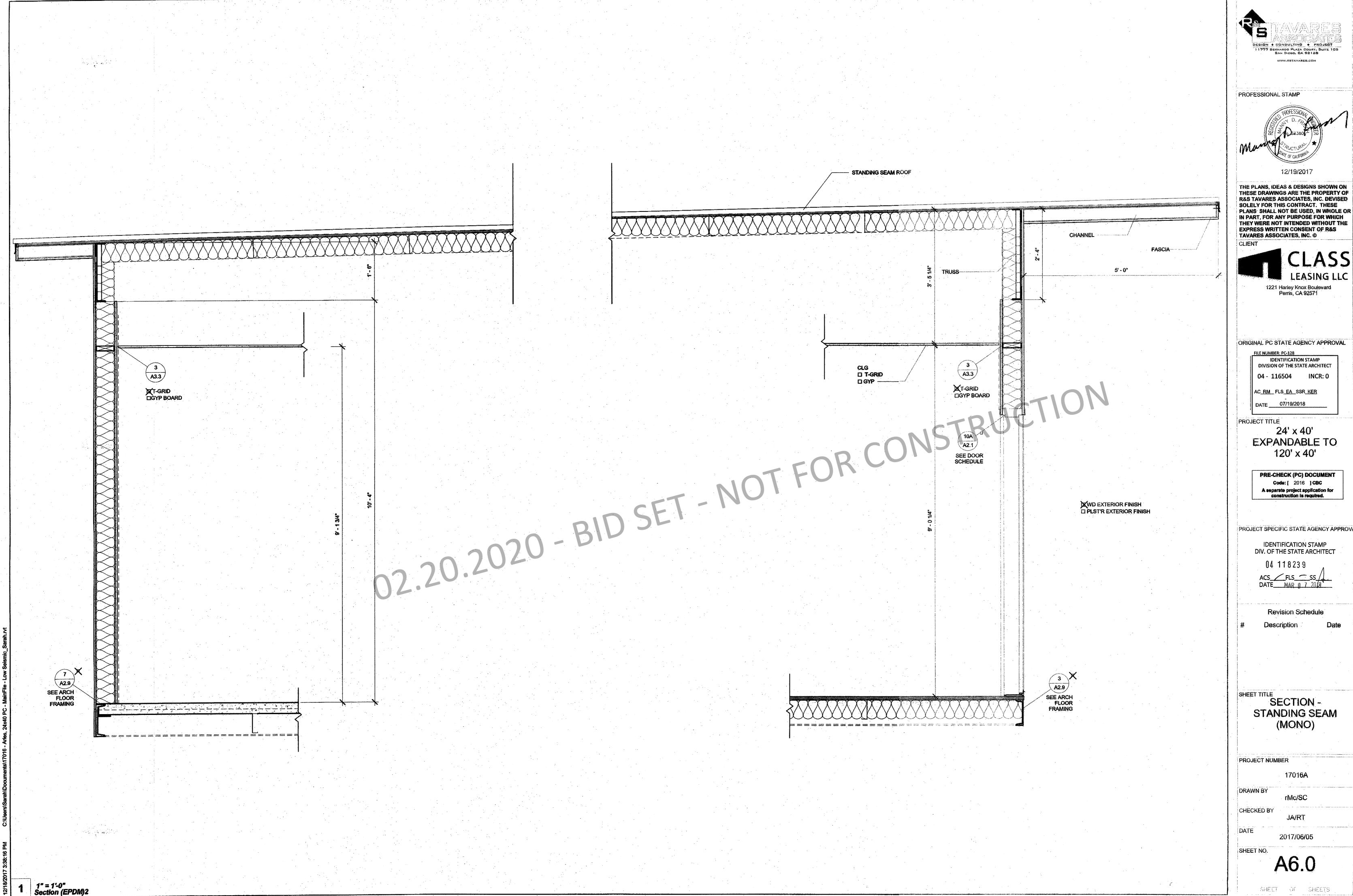




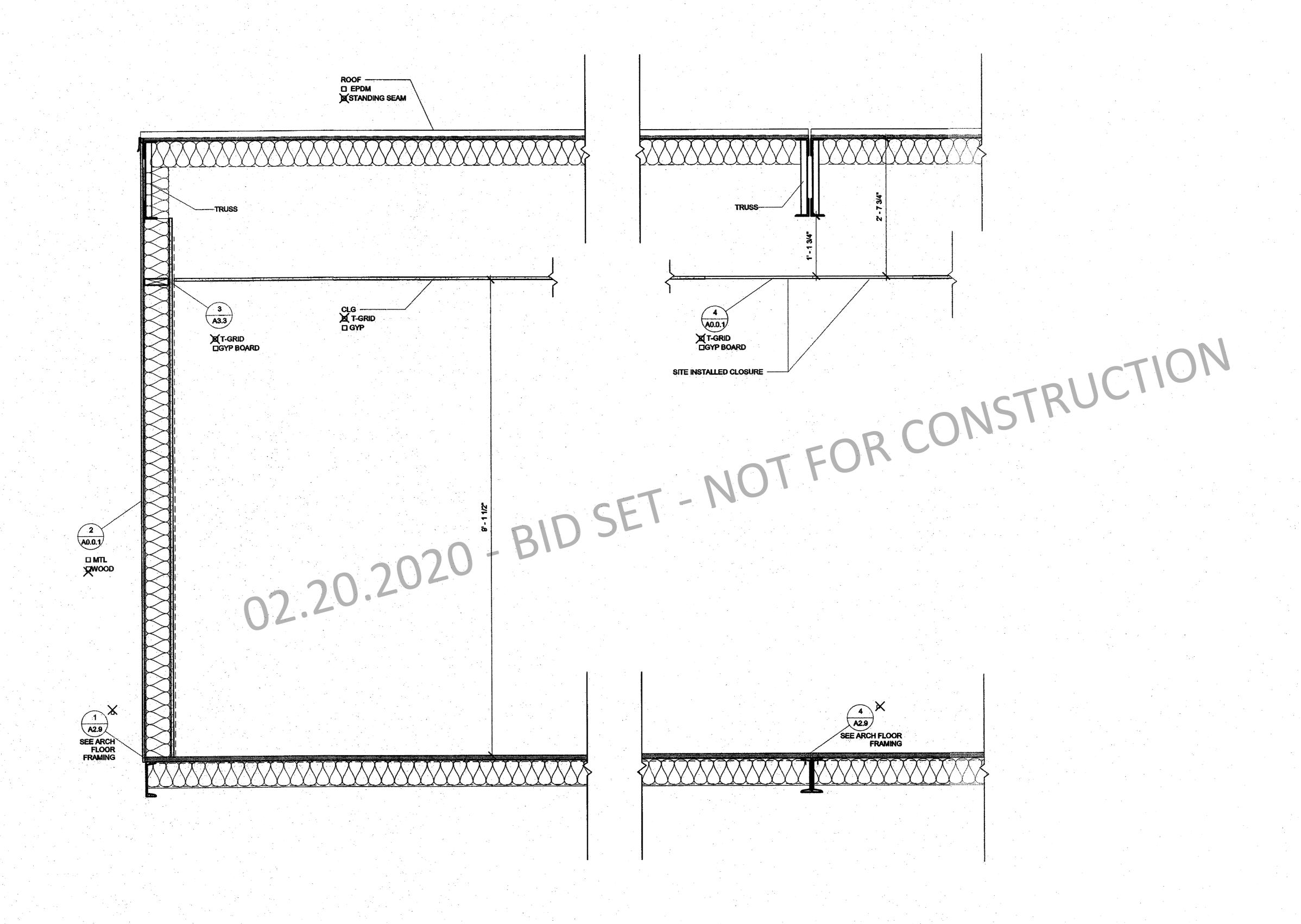








PROJECT SPECIFIC STATE AGENCY APPROVAL





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

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

PRE-CHECK (PC) DOCUMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118239

ACS___FLS___SS__A_ DATE___MAR__0_7_2019

Revision Schedule

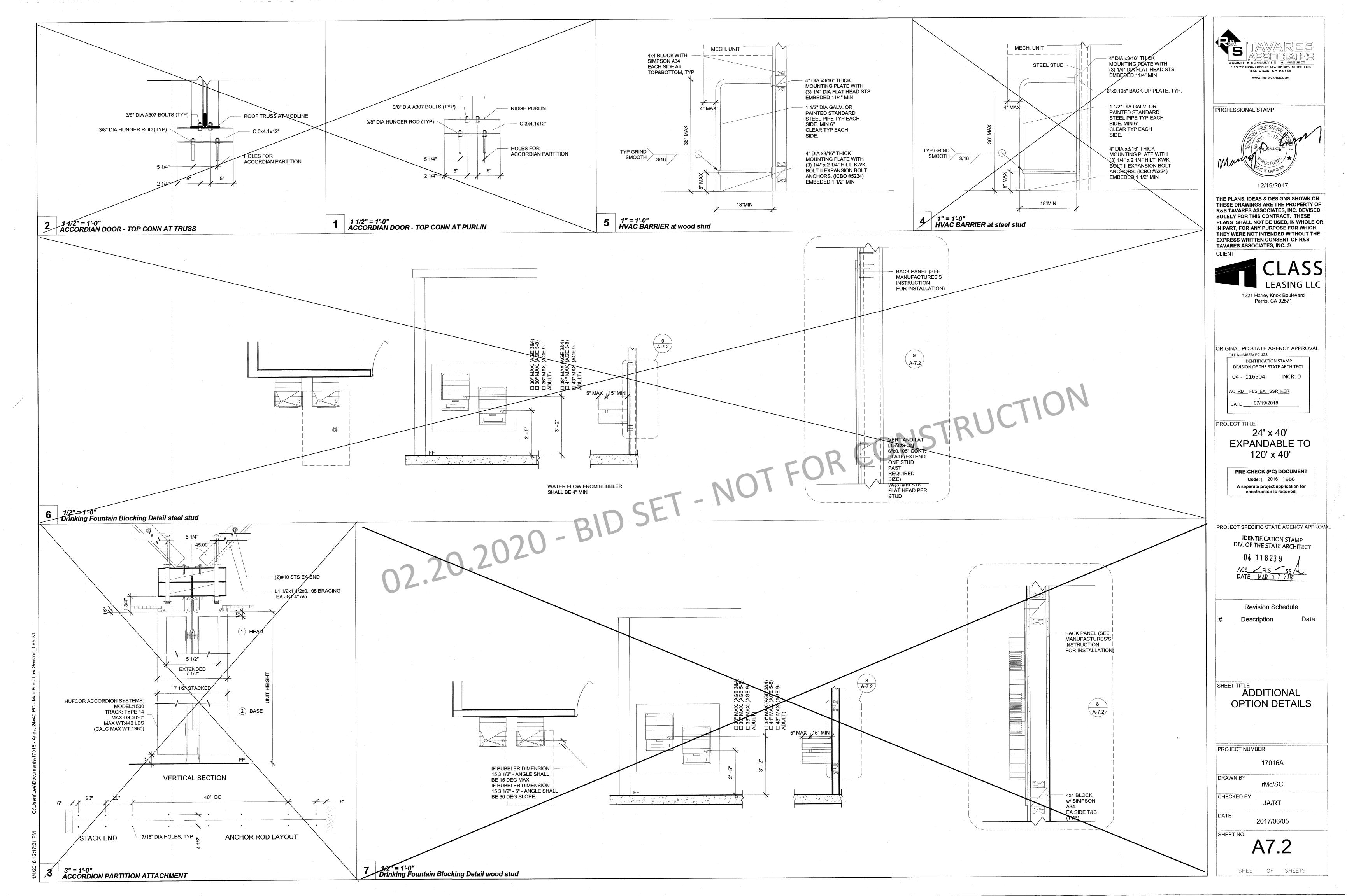
SECTION

PROJECT NUMBER

CHECKED BY

2017/06/05

A6.2



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.

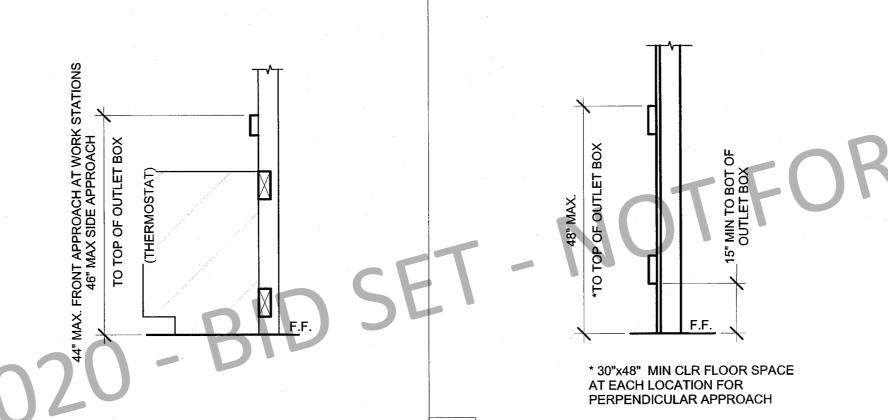
#8 Cu WIRE TO BOTH #14 GROUND TEKS, FIELD CONNECTED

MODLINE

NOTES:

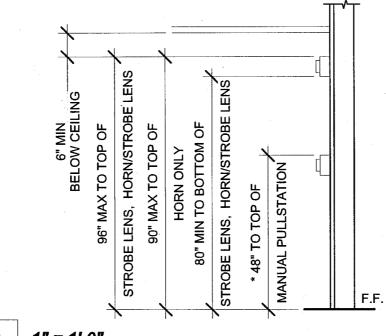
- 1. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L.
 PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE
 DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL
 UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH
 FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
- 2. CHECK RESISTANT 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



3 1" = 1'-0" ELEV. @ WORKSTATION

4 1" = 1'-0" MOUTING ELEV.



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

5 1" = 1'-0" FIRE ALARM MOUNTING HEIGHTS 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 CONDUCTOR			₹
SIZE		TYPE	1/2" C	3/4" C:MI	ТТ <u>1"</u> С	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 NO. OF CONDUCTORS						
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



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CLASS

Perris, CA 92571

LEASING LLC
1221 Harley Knox Boulevard

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

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for

construction is required.

120' x 40'

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

Revision Schedule

Description

SHEET TITLE
ELECTRICAL PLAN
24x40

PROJECT NUMBER

17016A DRAWN BY

rMc/SC

CHECKED BY JA/RT

DATE 2017/06/05

SHEET NO.

SHEET OF SHEETS

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

DANIEL A OAR - 40R	120/20	18 VOLTS, 1	φ, 3 W	IRE		M/	AIN LU	JGS ONLY	PANEL B	OX= 100A
PANEL A 24" x40"	LOADCEN	TER	SURF	ACE I	VOU	NTE)	GRD & NEU	TRAL BARS	AMP BUS
	VOL	FAMPS .	1 ·	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
SUBTOTAL	ф A 7390	ф В 6850					·	фА 800	фВ 720	SUBTOTAL
TOTAL	8190	7570) /120 VOLT	S= 68.25 + .94= 77.1	9 AMPS

1" = 1'-0"
ELECTRICAL PANEL_WALL MOUNTED

120/208 VOLTS, 3 ¢, 3 WIRE MAIN LUGS ONLY PANEL BOX= 100A PANEL A 24" x40" SURFACE MOUNTED GRD & NEUTRAL BARS AMP BUS 10000 AIC VOLTAMPS **VOLTAMPS** DESCRIPTION φ B C/B CKT φ CKT C/B φA φ B DESCRIPTION 30 1 A 2 20 720 OUTLETS **AC Roof Mounted** 720 OUTLETS 7360 30 3 B 4 20 20 5 A 6 20 40 GENERAL LIGHTING EXTERIOR LIGHT EXTERIOR GFI/WP 20 7 B 8 20 FIRE ALARM 20 9 A 10 20 40 φВ 8080 7540 720 SUBTOTAL SUBTOTAL 880 /120 VOLTS= 74 TOTAL 8880 74 AMPS + 18.5= 92.5 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'-0"
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 BACKOP PATTOCY

MOUNT AT +93" AFF

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

MIN. + 15" TO BOTTO 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
MOUNTED
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

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

CARBON MONOXIDE PER CBC SECTION 915

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/ LEC 700.20

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

DESIGN •

DESIGN & CONSULTING & PROJECT

11777 BERNARDO PLAZA GOURT, SUITE 105
SAN DIEGO, CA 92128

WWW.RSTAVARES.COM

PROFESSIONAL STAMP



12/19/2017

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FI CLASS

1221 Harley Knox Boulevard Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

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 2019

Revision Schedule

Description I

EET TITLE

ELECTRICAL SCHEDULES 24x40

PROJECT NUMBER

17016A DRAWN BY

rMc/SC

JA/RT

DATE 2017/06/05

SHEET NO.

SHEET OF SHEETS

1" = 1'-0" ELECTRICAL PANEL_ROOF MOUNTED 1" = 1'-0" LEGEND NOTE. SEE 4/AS.2 FOR PHOTOMETRIC

Building Type:		onresidential			-Rise Residential		Hotel/Motel					Installed	1	<u>v</u>	Vatts	\dashv					d Lighting
Schools Phase of Construction:		locatable Public Scherw w Construction	ools	☐ Cond	litioned Spaces		Unconditioned Spaces Alteration			01		NRCC-LTI-01-E, Table H Portable Only fo		+	3840				NRCC-L	1-01-E, Table	H, page 5 +
Method of Compliance:		mplete Building			Category		Tailored			02		NRCC-LTI-01-E, Table G	i, page 4	+							
Project Address:	1 🗆 1 🚥	Implete Dallaning	<u> </u>				1.0.0,00			03		Minus Lighting Contro NRCC-LTI-02-6	- 1	-	711					ighting Control NRCC-LTI-02-	
										04		Adjusted Installed Lightin (row 1 plus row 2 minu	g Power	=	3129			,	Adjusted In	stalled Lighti	ng Power =
B. Lighting Compliance Doc											Co	omplies ONLY if Installed ≤ Allowed (Bo		 05)		-		mnlies ON	V if Install		(Box 04 < Box
For detailed instructions on the us YES NO	comp. Doc.	1	ards compliand	ce documents	s, refer to the Nonresi	dential Manual pub	lished by the California Energ	y Commi	ission.			Allowed Lighting Power				+		Allowed Li			
(ES)(NO)	NRCC-LTI-01-E		liance. All Pag	ges required	on plans for all submi	ttals.						Conditioned NRCC-LTI-03-E, page 1					Uncond	ditioned N	RCC-LTI-03	-E, page 1	
• 0	NRCC-LTI-02-E				nd PAF Calculation. All	Pages required on	plans for all submittals.			05		ons with replacement luminaires that have er power compared to the original existing			5280					minaires that he had he original exis	nave at least sting luminaire:
0 0	NRCC-LTI-03-E NRCC-LTI-04-E	Indoor Lighting Pow Tailored Method We										ad use the allowed wattage from NRCC-LTI				m;	ay instea	ıd use the a	llowed watt	age from NRCC	LTI-06, page 2
0 0	NRCC-LTI-04-E	Line Voltage Track L		sheets						D D - I											
0 0	NRCC-LTI-06-E	Indoor Lighting Exist	ting Condition	ıs						ı		equired Certificates of Installation es for all of the Certificates that will be	submitted.	(Retain	copies a	nd verif	y forms	are compl	eted and s	gned.)	
										YES	NO	Form/Title									
										•	0	NRCI-LTI-01-E - Must be submitted for	all building	gs							☐ Field
										•	1 () [NRCI-LTI-02-E - Must be submitted for to be recognized for compliance.	a lighting o	control s	ystem, o	r for an l	Energy f	Manageme	ent Contro	System (EMC	CS), \Box Field
												NRCI-LTI-03-E - Must be submitted for	a line-volta	age tracl	k lighting	integra	l curren	t limiter, o	r for a sup	lementary	
										0		overcurrent protection panel used to						<u>_</u>		<u> </u>	☐ Field
										0	(●)	NRCI-LTI-04-E - Must be submitted for conference room, a multipurpose room				_			ivention ce	nter, a	☐ Field
										0		NRCI-LTI-05-E - Must be submitted for					<u>.</u>		r complian	ce.	☐ Field
	į									0	(•)	NRCI-LTI-06-E - Must be submitted for	additional	wattage	installed	l in a vic	deo conf	ferencing s	studio to be	recognized for	or Field
								, , , , , , , , , , , , , , , , , , , 				compliance.					-				
CA Building Energy Efficiency Stan STATE OF CALIFORNIA	dards - 2016 Noni	residential Compliance	e						April 2016	CA Buildin	g Energy Efficie	ency Standards - 2016 Nonresidential Comp	liance				 				
INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16)							CALIFORNIA ENERG	SY COMMI	IISSION (II)	INDOO	R LIGHTII	NG									
CERTIFICATE OF COMPLIANCE									VRCC-LTI-01-E	γ	TI-01-E (Revised ATE OF COM									CA	LIFORNIA ENER
Indoor Lighting Project Name: 120'x40' (PC 04-116	504)					Date Prepared	d: 06/25/2018		(Page 4 of 6)	Indoor Li											
120,440 (1 0 0 4 110							35, 25, 2025			Project Nar	ne: 120'x40' (P	C 04-116504)							Date Prepar	ed: 06/25/2018	
G. Installed Portable Lumi										A Separa	te Lighting So	chedule Must Be Filled Out for Condition	ned and U	nconditio	oned Spa	ices. Ins	stalled L	ighting Po	wer listed o	n this Lightin	g Schedule is
 This section shall be filled o this compliance document. 	•	table luminaires in o	offices (As def	fined in §10	0.1). All other plani	ned portable lumi	inaires shall be documente	ed on ne	ext page of	✓ CONI	DITIONED SPA	ACE UNCONDITIONED SPACE	:E								
- This section is used to deter	rmine if greater	than 0.3 watts of po	rtable lightin	ng is planned	d for any office					H. Indo	nr Lighting (Schedule and Field Inspection Ene	ray Check	lict							
- Fill out a separate line for e				l (having the	e same general and	portable lighting)	may be grouped together	. This al	llowance	111111111111111111111111111111111111111		Luminaire Schedule	.By Check		Installe	ed Watts	<u> </u>		T	Location	
shall not be traded betwee			Installed Por	rtable Lumii	naire W/ft²		Office Location	Fie	eld Inspector	01		02	03		04		05	06		07	
01		02 03	04	05	06 07	08	09		10					- 1	/ wattage \ etermined			e e			
			Installed portable	of Sc	If G06 ≤ 0 Watts enter	.3,							F 0	=	\$		SS	alled this a 5)			
		.umin	luminaire	quare f this	per zero;	(G05 x G07)	Identify Office area in which these portable	Pas	Fai	ne or n Tag	1	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer,	Watts per Luminaire	CEC Defau	n NAo	§130.0(c)	Number Luminaires	al Instal Itts in th 13 xH05	Prima	ry Function are	a in which
Complete Luminaire Des (i.e., LED, under cabinet, furnit	•	Watts per S of	watts in this office	e feet	square foot If G06 > 0		luminaires are installed	8	_	Name Item	1	8, one dimmable electronic ballast)	Wa	CEC	Acc Acc	\$13	ž 5	Total Watts (H03	these	luminaires are	
direct/indirect)		Luminaire	(G02 x G03)	(0	G04 / G05) (G06-0.3	<u>·</u>		4_		L-1	3-LA	MP/32W/T8	96	✓	<u> </u>	<u> </u>	40	3840			
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			0			0	Enter sum total of all pa	ges into		<u> </u>						++		0			
To	tal installed port	table luminaire watt	ts that are gre	eater than (0.3 W/ft² per office:		01-E; Page 2											0			
														NSTALLEI	I E D WATTS	D PAGE T	TOTAL:	0	Enter su	m total of all p	nages into
														13171222		77.02	O I / LE.	3160		I-01-E; Page 2	_
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CA Building Energy Efficiency Star STATE OF CALIFORNIA	ndards - 2016 Non	residential Compliance	e ·						April 2016		g Energy Efficie	ency Standards - 2016 Nonresidential Comp	oliance								
INDOOR LIGHTING -	LIGHTING (CONTROLS					CALIFORNIA ENER	CV COM	MISSION (D)	INDOO	R LIGHT	ING - LIGHTING CONTROL	S								
CEC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANC	E						CALIFORNIA ENER		NRCC-LTI-02-E	I I	LTI-02-E (Revise CATE OF CON									C.	ALIFORNIA ENE
Indoor Lighting - Lighting Cor						Date Prepar	rad:		(Page 1 of 3)	-t		ting Controls								-	
Project Name: 120'X40' (PC 04-11650	4)					Dute i repui	^{red:} 06/25/2018		The second section of the second section of the second section section of the second section of the second section sec	Project Name	120'X40' (PC	04-116504)							Date Pre	oared: 06/25/201	.8
A. Mandatory Lighting C	Control Doctor	ration Statement	ts (Indicate	e if the ma	easure annlies h	r checking vec	or no helow)			A senai	ate docum	nent must be filled out for Condi	tioned ar	nd Unc	onditio	ned Sn)aces T	This nage	is used a	only for the	following
			maicate	uic iii	applies by	, oncoming yes				l '	NDITIONED					op		Pubc		,	2 11161
YES NO Control R	equirements									,											
				ol devices w	hich are certified to	the Energy Comr	mission according to the Ti	tle 20 A	ppliance	B. Ma	ndatory a	nd Prescriptive Indoor Lighting	Control S	chedul	e, PAF (Calcula	ation, a	ınd Field	Inspecti		
Efficiency N		cordance with Section by a lighting control		nergy mana	gement control syst	em in accordance	e with §110.9. An Installati	ion Cert	tificate											PAF Cred	lit Calculation
		dance with Section 1		o, mana												Standar	rds Com	plying With	h ¹	L 0 5	
		-					gy Commission in accorda	nce with	h §110.9 and							✓ all that	at apply,	or leave er		Watts of ontrolled Lighting	Crex 111 × P/
9130.0. Auc		tallation Certificate :					110.9 and Section 130.0. Ac	dditiona	ally, an			Lighting Control Schedule		03	04		if Exemp	 	00 1-		PAF 13
O O Installation	Certificate shall	be installed in accor	rdance with S	Section 130).4(b).						01	Type/ Description of Light		03	04 (05 00	06 07	7 08	09 10	11	12 13
			y with the ap	oplicable red	quirements in §110.	9 and shall be ins	talled in accordance with t	the man	nufacturer's			Control (i.e.: occupancy ser	nsor,	#	§13	§1:	\$1:	\$13	§140 §140		
instructions		with Section 130.1.								Loca	ation in Buildi	ing automatic time switch, dimmer, automatic daylig	1	of nits	§130.1(a)	§130.1(c) §130.0(b)	§130.1(d)	§130.1(e)	40.6(d) 40.6(a)2		
		ionally controlled w							·			etc)	,	11163	= 5	= 0	· =	(()	۵ م		
							olay, window display, case o				CLASSROOM	AUTOMATIC DAYLIGHT		10	•	• •	• •		•	790	.10 79
	-	shall each be separa ects lighting shall ea	-				ack lighting is used, general .1(a)4.	i, uispiay	ıy,		CLASSROOM	OCCUPANCY SENSOR		3	•	• •	•		•	3160	.20 632
The genera	l lighting of any	enclosed area 100 so	quare feet or	r larger, wit	h a connected lighti		eds 0.5 watts per square fo	oot shal	II meet the						_	_	+	+			0
• multi-level	lighting control	requirements in acco	ordance with	n Section 13	30.1(b).											#					0
All installed	l indoor lighting	shall be equipped w	ith controls t	that meet tl	he applicable Shut-(OFF control requi	rements in Section 130.1(c	:).	:		-					+					0
() Lighting in a	all Daylit Zones s	hall be controlled in	n accordance	with the re	equirements in Secti	on 130.1(d) and c	daylit zones are shown on t	the plan	ıs.								Control	Credit PA	GE TOTAL (L Sum of Colum	n 13):
	,					• •		-		1		IE MALII TIDLE DAGES ADE LI	CED EVITED	CLINATA	OTAL OF	Contact	Crodit f	Il	- LIEDE /C.	f . ll C-live	n 12\.

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

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

CALIFORNIA ENERGY COMMISSION

Date Prepared: 06/25/2018

NRCC-LTI-01-E

(Page 1 of 6)

CERTIFICA	.ıı-∪ı-E (Kevis	ING ed 04/16)			CALIFOR	RNIA ENEF	RGY COMMISSION
	ATE OF CON	/PLIANCE					NRCC-LTI-01-E
ndoor Lig							(Page 2 of 6)
Project Nam	^{ie:} 120'x40' (PC 04-116504)			Date Prepared: 06/25/2018		•
C. Summ	nary of All	owed Lighting Power					
		conditioned space Lighting must not be combined	for c	compliance			
		Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Uncond	litioned	Spaces
				Watts			Watts
		Installed Lighting		3840	Installed Lig		
01		NRCC-LTI-01-E, Table H, page 5 Portable Only for Offices	+		NRCC-LTI-01-E, Table H, p	age 5	+
02		NRCC-LTI-01-E, Table G, page 4	+				
02		Minus Lighting Control Credits		711	Minus Lighting Control C	redits	
03		NRCC-LTI-02-E, page 2		/11	NRCC-LTI-02-E, p		
04		Adjusted Installed Lighting Power	=	3129	Adjusted Installed Lighting P		= 0
		(row 1 plus row 2 minus row 3)	Ĺ	<u></u>	(row 1 minus re	ow 3)	
1	(Complies ONLY if Installed ≤ Allowed (Box 04 < Bo	x 05)		Complies ONLY if Installed ≤ Allowed (Box	04 < Bo	x 05)
[Allowed Lighting Power			Allowed Lighting Power		1
		Conditioned NRCC-LTI-03-E, page 1			Unconditioned NRCC-LTI-03-E, page 1		
05		ations with replacement luminaires that have at least		5280	Alterations with replacement luminaires that have		
		ower power compared to the original existing luminaire sead use the allowed wattage from NRCC-LTI-06, page 2			50/35% lower power compared to the original existing may instead use the allowed wattage from NRCC-LTI-		
L				<u> </u>	<u> </u>		
eclare by	v selecting						
YES	NO	yes for all of the Certificates that will be submitte Form/Title	d. (Re	etain copies and v	verify forms are completed and signed.)		·
YES				etain copies and v	verify forms are completed and signed.)	☐ Fiel	d Inspector
	NO	Form/Title NRCI-LTI-01-E - Must be submitted for all buildi	ngs		r an Energy Management Control System (EMCS),		d Inspector
••	NO O	Form/Title NRCI-LTI-01-E - Must be submitted for all buildi NRCI-LTI-02-E - Must be submitted for a lighting	ngs g cont	trol system, or for	an Energy Management Control System (EMCS),	☐ Fiel	d Inspector
•	NO O	Form/Title NRCI-LTI-01-E - Must be submitted for all buildi NRCI-LTI-02-E - Must be submitted for a lighting to be recognized for compliance.	ngs g cont Itage	trol system, or for	an Energy Management Control System (EMCS), egral current limiter, or for a supplementary	☐ Fiel	
•	NO O	Form/Title NRCI-LTI-01-E - Must be submitted for all buildi NRCI-LTI-02-E - Must be submitted for a lighting to be recognized for compliance. NRCI-LTI-03-E - Must be submitted for a line-vo	ngs g cont Itage only li	trol system, or for track lighting into ine-voltage track ed systems servin	r an Energy Management Control System (EMCS), egral current limiter, or for a supplementary lighting, to be recognized for compliance. g an auditorium, a convention center, a	☐ Fiel	d Inspector
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i. intuoor i	Lighting Schedule and Field Inspection Ener	gy Checklis	st .						
	Luminaire Schedule		Ir	stalled Wa	itts		Location	Field I	nspector 1
01	02	03	()4	05	06	07		08
			1	tage 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	Ō
						0		0	0
						0		0	0
						0		0	0
						0		0	0

	INSTALLED WATTS PAGE TOTAL:	3160	Enter sum total of all pages into	
		2100	NRCC-LTI-01-E; Page 2	
0.2020				
Building Energy Efficiency Standards - 2016 Nonresidential Complian	ce			April 2016
TE OF CALIFORNIA DOOR LIGHTING - LIGHTING CONTROLS -NRCC-LTI-02-E (Revised 01/16)			CALIFORNIA ENE	RGY COMMISSION
RTIFICATE OF COMPLIANCE				NRCC-LTI-02-E
door Lighting - Lighting Controls			-	(Page 2 of 3)
oject Name: 120'X40' (PC 04-116504)			Date Prepared: 06/25/2018	

										PAF Cred	it Calcu	ulation ²	<] .	_
Ligl	nting Control Schedule				that a	Comply oply, or exempte	leave 6			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	9
CLASSROOM	AUTOMATIC DAYLIGHT	10	•	•	•	•		٠		790	.10	79		0	(
CLASSROOM	OCCUPANCY SENSOR	3	•	•	•	•		•		3160	.20	632		0	(

OCCUPANCY SENSOR	3	•	•	•	•	l	•		3160	.20	632		Γ
											0		0
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IF MULTIPLE PAGES ARE USED, E	NTER SUM	TOTAL	OF Con	trol Cr	edit for	all pag	es HEI	RE (Sum	of all Colum	n 13):			
					-						Enter Co	ntrol Cre	edit to
											into NRC	CC-LTI-01	-E; P
											1.		

1. \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive; \$140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls. 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 also required to be filled out, signed, and submitted.

		MPLIANCE		NRCC-LTI-C
Indoor Ligi				(Page 3 c
Project Name	^{2:} 120'x40'	(PC 04-116504)	Date Prepared: 06/25/20	18
E. Declara	ation of I	Required Certificates of Acceptance		
Declare by	selecting	yes for all of the Certificates of Acceptance that will be submitted. (Retain	copies and verify forms are completed an	d signed.)
YES	NO	FORM/TITLE		
•	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automati	ic time switch controls.	☐ Field Inspector
•	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		☐ Field Inspector
0	0	NRCA-LTI-04-A - Must be submitted for demand responsive lighting cont	rols.	☐ Field Inspector
0	•	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjust	ment 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	April 2016
STATE OF CALIFORNIA INDOOR LIGHTING	
CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NECCLITICALE
	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project 120 X40' (PC 04-116504)	Date Prepared: 06/25/2018
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. 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 respons (responsible designer).	sibility for the building design or system design identified on this Certificate of Compliance
	anufactured devices for the building design or system design identified on this Certificate of
Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Californ	
	of Compliance are consistent with the information provided on other applicable compliance
documents, worksheets, calculations, plans and specifications submitted to the enfo	
	made available with the building permit(s) issued for the building, and made available to the
, , , , , , , , , , , , , , , , , , ,	gned copy of this Certificate of Compliance is required to be included with the documentation the
builder provides to the building owner at occupancy.	Responsible Designer Signature:
Responsible Designer Name: MANNY D. FRISCH	Musical S. Political
Company: R&S TAVARES ASSOCIATES, INC.	Date Signed: 06/25/2018
Address: 11777 BERNARDO PLAZA CT. SUITE 105	License: S3380

Phone: 858 444 3344 EXT 1810

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. 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	
 (responsible designer). The energy features and performance specifications, materials, compound Compliance conform to the requirements of Title 24, Part 1 and Part 6 	onents, and manufactured devices for the building design or system design identified on this Certificate of
 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 Compliance. 	his Certificate of Compliance are consistent with the information provided on other applicable compliance ted to the enforcement agency for approval with this building permit application. iance shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation to Responsible Designer Signature:
 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 Complication enforcement agency for all applicable inspections. I understand that a builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH	his Certificate of Compliance are consistent with the information provided on other applicable compliance ted to the enforcement agency for approval with this building permit application. iance shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the accumentation to Responsible Designer Signature: Date Signed: 06/25/2018
4. The building design features or system design features identified on the documents, worksheets, calculations, plans and specifications submitts 5. I will ensure that a completed signed copy of this Certificate of Complient enforcement agency for all applicable inspections. I understand that a builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH Company: R&S TAVARES ASSOCIATES, INC.	his Certificate of Compliance are consistent with the information provided on other applicable compliance ted to the enforcement agency for approval with this building permit application. iance shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the accumentation to Responsible Designer Signature: Date Signed: 06/25/2018
 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 Complication enforcement agency for all applicable inspections. I understand that a builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH	his Certificate of Compliance are consistent with the information provided on other applicable compliance ted to the enforcement agency for approval with this building permit application. iance shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation to Responsible Designer Signature:



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

PROFESSIONAL STAMP



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 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

April 2016

NRCC-LTI-02-E

(Page 3 of 3)

January 2016

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 10 7 20 X3

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

January 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

controls, and demand responsive controls.

0

STATE OF CALIFORNIA INDOOR LIGHTING

Indoor Lighting

Climate Zone:

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

A. General Information

CERTIFICATE OF COMPLIANCE

Project Name: 120'x40' (PC 04-116504)

Conditioned Floor Area: 4800 Unconditioned Floor Area:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

City/State/Zip: SAN DIEGO, CA 91218

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

Indoor Lighting - Lighting Controls

Project Name: 120'X40' (PC 04-116504)

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

INDOOR LIGHTING - LIGHTING CONTROLS

STATE OF CALIFORNIA OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA OUTDOOR LIGHTING		si y	STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E	CEC-NRCC-LTO-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-01-E		CEC-NRCC-LTO-02-E (Revised 08/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-0.
Outdoor Lighting (Page 1 of 4) Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018	Outdoor Lighting Project Name: 120'x40' (PC 04-116504)	(Page 2 of 4) Date Prepared: 03/05/2018		Outdoor Lighting Controls Project Name: 120'x40' (PC 04-116504)	(Page 1 of Date Prepared: 03/05/2018
A. General Information				1	00/00/2010
Project Address: Total Illuminated Hardscape Area:	G. Schedule of Luminaires Exempt from the Cutoff	f Requirements in §130.2(b) 02		A. Mandatory Outdoor Lighting Control Declaration Statements	
Phase of Construction: New Construction Addition Alteration	Name or Symbol Desc	ription of exempt luminaire in accordance with the exemptions		Check all that apply:	
Outdoor Lighting Zone (LZ)				Lighting shall be controlled by self-contained lighting control devices which are certifie Regulations in accordance with §110.9(a).	d to the Energy Commission according to the Title 20 Appliance Efficiency
I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114				Lighting shall be controlled by a lighting control system or energy management contro in accordance with §130.4(b).	system in accordance with §110.9. An Installation Certificate shall be submitte
B. Lighting Compliance Documents (check box for each document included)	L			All lighting controls and equipment shall comply with the applicable requirements in § accordance with §130.0(d).	110.9 and shall be installed in accordance with the manufacturer's instructions i
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.	H. Schedule of Luminaires Exempt from the Outdo	oor Lighting Control Requirements in §130.2(c)		Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the red	quirements in Section 110.9(b)5.
✓ NRCC-LTO-01-E Certificate of Compliance		ription of exempt luminaire in accordance with the exemptions		All outdoor incandescent luminaires rated over 100 watts, determined in accordance was All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated over 100 watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance was all outdoor luminaires rated for use was all outdoor luminaires	
✓ NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance ✓ NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance				Uplight and Glare requirements in accordance with Section 130.2(b) All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronor	
□ NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance				in accordance with Section 130.2(c)1.	
C. Summary of Allowed Outdoor Lighting Power Watts				All installed outdoor lighting shall be circuited and independently controlled from other accordance with Section 130.2(c)2.	er electrical loads by an automatic scheduling control in
Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1	<u> </u>			All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or controls in accordance with Section 130.2(c)3.	less above the ground, shall be controlled with automatic lighting
Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.				For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance. For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic	• •
Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01) 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 ac	ldition, or for any altered outdoor lighting controls,
02 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3. 120				shall be certified as meeting the Acceptance Requirements for Code Compliance in acc applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix N	
D. Declaration of Required Installation Certificates Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and					
signed.)					
✓ NRCI-LTO-01-E - Must be submitted for all buildings ☐ Field Inspector ✓ 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.					
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 documents are completed and signed.)				CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA	August
▼ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. □ Field Inspector				OUTDOOR LIGHTING CONTROLS CEC-NRCC-LTO-02-E (Revised 08/16)	CALIFORNIA ENERGY COMMISSION
F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7				CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls	NRCC-LTO-(
Name or Symbol Description of exempt luminaire in accordance with the exemptions				Project Name: 120'x40' (PC 04-116504)	Date Prepared: 03/05/2018
				B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Ch	ecklist
				Outdoor Lighting Control Schedule	Standards Complying With
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA April 2016	CA Building Energy Efficiency Standards - 2016 Nonresiden	ntial Compliance April 2016 STATE OF CALIFORNIA		Outdoor Lighting Control Schedule	(✓ all that apply, or leave empty if Exempted)
OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16)	<u>(19)</u>	OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION		2 01 05 05 07 00 00 10
CERTIFICATE OF COMPLIANCE Outdoor Lighting		Outdoor Lighting	NRCC-LTO-01-E (Page 4 of 4)	01 02 0 Type/ Description of Lighting Control (i.e.	3 04 05 06 07 08 09 10 11
Project Name: 120'x40' (PC 04-116504) Date Pres		Project Name: 120'x40' (PC 04-116504)	Date Prepared: 03/05/2018	Location and Application of photocontrol, outdoor astronomical time-	0.2(a) 0.2(c)1 0.2(c)2 0.2(c)3 0.2(c)5 0.2(c)5
I. Outdoor Lighting Schedule and Field Inspection Energy Checklist		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		Luminaires Being switch control, automatic scheduling control, part-night outdoor lighting control)	\$130
	ocation Cutoff Inspector	RALPH IVI. TAVARES	umentation Author Signature: Jau	ENTRY DOOR PHOTOCELL CONTROLLED 4	• • • •
01 02 03 04 05 06 How wattage was	07 08 09		ature Date: 03/05/2018 Certification Identification (if applicable):		
Name or	Function area in se luminaires are	11/// BERNARDO PLAZA CI. SUITE 105	ne: 858 444 3344 EXT 1801		
	nstalled BUG Rating Signal Fig. 1	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:			
Wa W	1111	1. The information provided on this Certificate of Compliance is true and correct.	sibility for the building design or system design identified on this Certificate of Compliance		
D EXTERIOR LED LIGHT FIXTURE 30W MAX WITH MAIN PHOTOCELL MOUNT AT 93" AFF	N ENTRANCE UH: UL:	(responsible designer). 3. The energy features and performance specifications, materials, components, and m	anufactured devices for the building design or system design identified on this Certificate of		
30 🗸 🗆 4 120	BVH:	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Califor 4. The building design features or system design features identified on this Certificate	nia Code of Regulations. of Compliance are consistent with the information provided on other applicable compliance		
	FH:	documents, worksheets, calculations, plans and specifications submitted to the enfo. I will ensure that a completed signed copy of this Certificate of Compliance shall be	nade available with the building permit(s) issued for the building, and made available to the		
	UH:	builder provides to the building owner at occupancy.	ponsible Designer Signature:		
	UL: FVH:		e Signed: 03/05/2018		
	BVH:	Address: 11777 BERNARDO PLAZA CT. SUITE 105	rise: S3380		
	BH:	City/State/Zip: SAN DIEGO, CA 92128	^{ne:} 858 444 3344 EXT 1810	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	August
	UH: UL:			STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CEC NECOLTO 02 E (Revised 09/46)	CALIFORNIA ENERGY COMMISSION
	FVH: O O			CEC-NRCC-LTO-02-E (Revised 08/16) CERTIFICATE OF COMPLIANCE	NRCC-LTO-
	FH:			Outdoor Lighting Controls Project Name: 120'x40' (PC 04-116504)	Page 3 Date Prepared: 03/05/2018
Enter sum to	otal of all pages (Sum Total			DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
INSTALLED WATTS PAGE TOTAL: 120 INSTALLED CONTROL NRCC-LTO-02	Outdoor lighting wattage) into 120 1-E; Page 1			I certify that this Certificate of Compliance documentation is accurate and complete.	
				Documentation Author Name: RALPH M. TAVARES Company: R&S TAVARES ASSOCIATES, INC. Documentation Author Signature Documentation Author Signature O3/05/2018	Lau h
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	April 2016			Address: 11777 BERNARDO PLAZA CT. SUITE 105	
				City/State/Zip: SAN DIEGO, CA 92128 Phone: 858 444 3344 EXT 1	801
				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 responsibility for 	the building design or system design identified on this Certificate of Compliance
				 (responsible designer). The energy features and performance specifications, materials, components, and manufactures. 	ed devices for the building design or system design identified on this Certificate of
			APPROVED	 Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code o The building design features or system design features identified on this Certificate of Complia documents, worksheets, calculations, plans and specifications submitted to the enforcement a 	nce are consistent with the information provided on other applicable compliance
			DIVISION OF STATE ARCHITECT	 I will ensure that a completed signed copy of this Certificate of Compliance shall be made avail enforcement agency for all applicable inspections. I understand that a completed signed copy 	able with the building permit(s) issued for the building, and made available to the
			HIGH PERFORMANCE SECTION APP.#04-116504 DATE: 7-10-18	builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH Responsible Designer Signature:	Many D. Frish
				R&S TAVARES ASSOCIATES, INC.	·many ·
				Address: 11777 BERNARDO PLAZA CT. SUITE 105	V
				City/State/Zip: SAN DIEGO, CA 92128 Phone: 858 444 3344 EXT 1	810

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			inaire is mounted 24	feet or less	above th	ne ground	l, shall be	controlle	d with aut	omatic lig	hting		
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	☐ Before an occupancy perr	mit is granted for the newly const	ructed building or for	the addition	n, or for	any alter	ed outdo	or lighting	g controls,				
						§130.4.(a	a). Outdo	or lighting	g controls s	shall comp	oly with t	the	
	applicable requirements (Appe		•								
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All outdoor incondensed in limitaties rated over 200 words, determined in accordance with Section 130 (c), shall be controlled by a solidar service. Uplight and fallow enquirements in accordance with Section 130 (c), shall comply with Uplight and fallow enquirements in accordance with Section 130 (c), shall comply with Uplight and fallow enquirements in accordance with Section 130 (c), shall comply with a controlled by a problem of the controlled by a problem of the controlled with automatically analysis in accordance with Section 130 (c), shall be controlled by a problem of automatically analysis in accordance with Section 130 (c), shall be controlled by a problem of automatically analysis of the controlled with automatic lighting control in accordance with Section 130 (c), shall be controlled with automatic lighting control in accordance with Section 130 (c), shall be controlled with automatic lighting control in accordance with Section 130 (c), shall be controlled with automatic lighting control in accordance with Section 130 (c), shall be controlled with automatic lighting control in accordance with Section 130 (c), shall be controlled with automatic lighting control in accordance with Section 130 (c), shall be controlled with automatic lighting control in the stall be installed in accordance with Section 130 (c), shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighting control with section 130 (c), shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighting control with shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighting control with a section 130 (c), shall be controlled with automatic lighti													
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İ	Project Name: 120'x40' (PC 04-116504)	(Date F	repared: 03/05	5/2018			1 -6-	
CA E STA OC CEC CE C			-										
	B. Mandatory Outdoor	Lighting Control Schedule	and Field Inspecti	on Check	list							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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	CEC-NRCC-LTO-02-E (Revised 08/16) CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls Project Name: 120'x40' (PC 04-116504) B. Mandatory Outdoor Lighting Controls Out Out Out CA Building Energy Efficiency Standard Controlled ENTRY DOOR ENTRY DOOR CEC-NRCC-LTO-02-E (Revised 08/16) CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls Project Name: 120'x40' (PC 04-116504) DOCUMENTATION AUTHOR'S DECL 1. I certify that this Certificate of Documentation Author Name: RALPH M. T. Company: R&S TAVARES ASSOCIATES, Address:			·									1
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		4)				* * **	Date	Prepared: 00 /	25 /224 2	·		(Page	3 3
	120 x40 (PC 04-11650	4)		·····				03/0	J5/2018	•			
	DOCUMENTATION AUTHOR'S D	ECLARATION STATEMENT											
	I certify that this Certificate Documentation Author Name:	of Compliance documentation is acc	urate and complete.	Signaturo		(
			- 1		9	au	<u> </u>						
		ES, INC.	Signature Date: 03/05		<u></u>								
	11/// BERNARDO PLAZA		CEA Certification Identi		caple):	·				·			
	City/State/Zip: SAN DIEGO, CA 9212	.8	Phone: 858 444 334	4 EXT 1801									_
	RESPONSIBLE PERSON'S DECLA												_
	I certify the following under pen 1. The information provided of	nalty of perjury, under the laws of the									1	·	
		on this Certificate of Compliance is true 3 of the Business and Professions Co		ility for the b	uilding de	sign or sys	stem desig	n identifie	d on this Ce	rtificate of	Compliar	nce	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance



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

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

DRAWN BY rMc/SC

CHECKED BY

August 2016

2018/03/08

17016A

Mary Control	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) CERTIFICATE OF COMPLIANCE NRCC-ELC-01-E
Windows Wind	CERTIFICATE OF COMPLIANCE					Electrical Power Distribution Page of
	Part Part					
March Marc		D. Conservation of Floatwicel Circuits for Floatricel Energy Monitoring		C. Voltage Drop	5-6	
			<u> </u>		Check that the system	Documentation Author Name: Documentation Author Signature:
Mary				The shade is a great which the state of the solitons dwar requirement of Section 120 E(c). The	compiles	Company: D&S TAVARES ASSOCIATES INC. Signature Date: 04/24/2018
Part	Duilding Types		our energy usuge or roun types	maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest		
Part Part		Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirer Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Com	ement of Section 130.5(b). mpliance Manual Chapter 8.	connected load or outlet, do not exceed 5%.		
Post Post	La Relocatable Fubilit Schools	Part Part				
Provide prov						
The state of the s	In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported	and Method of compliance Rating				2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified
Section Temperature (Control Agency Control Agency	by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.	Electrical Service Describe the electrical power distribution system	Check that the			
Addition from the property of	Document into productions	Designation/Location/Description installed and the compliance method used	system complies	┧ 		
Secretary Company Co	Document Number Table or Schedule if it contains Page # document (e.g. 130.5(a) for	I I I I I I I I I I I I I I I I I I I				4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information
A SERVICE OF THE CONTROL OF THE CONT	compliance information) service electrical metering)			The control is capable of automatically shutting OFF the controlled receptacles when the space is typically		
Secretary Secr						
The cold protection department in the control protection of the contro	Add Row Remove Last			· · · · · · · · · · · · · · · · · · ·	**	Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occurrancy.
The cold protection department in the control protection of the contro	A. Service Electrical Metering				1.	Responsible Designer Name: MANNY D. FRISCH Responsible Designer Signature: Mumy D. Frisch
A formation of the control of the co	Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).					R&S TAVARES ASSOCIATES, INC.
For each part and executed system of the control purples, shared Bootstall (bottom for executed system) of the control purples of the con	For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). Fill out					
13.13/97. Five a circum 2 develope of graine below. For provide a protection of the circum 2 develope of graine below. For provide a protection of the circum 2 develope of graine below of the complete of graine and indicated state of the circum 3 developed of the protection of the complete of the protection of the circum 3 developed of the circum 3 developed of the protection of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 developed of the circum 3 d					 	CITY/STATE/ZIP: SAN DIEGO, CA 91218 PROPE: 858 444 3344 EXT 1810
Parameters Par	141.0(b)2Pi. Fill out Column 1 through 6 of table below.			1		
Promotion in the control in the co	EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneously demand and kWh for a utility-defined period. Fill out Column 1. 2 and 6 of table below with the compliance information.					
Hence of Service Substitution 1.	Fill out a separate line for each electrical service that is connected to the building.					
Descrical Service Designation Leasing Personnel Annual Personnel Control Service Designation Leasing Personnel Personnel Service Designation Leasing Personnel P	Electrical Service Schedule Electrical Metering Capabilities (check all that are present) Exception to Field Inspects	or				
Electrical service Designation Location/Description	01 02 03 04 05 06 07 08			1 1		
Electrical Service Designation of Location (Perspective) Location (Perspectiv	Tracking MWh			have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no		
Receptacles bat are only feel following purposes are excepted from Section 130-SG): Receptacles located a minimum of six it above the floor that are specifically for references and water septiment of the following purposes are excepted from Section 130-SG): Receptacles located a minimum of six it above the floor that are specifically for references and water septiment of the following purposes are excepted from Section 130-SG): Receptacles for setting from the following purposes are excepted from Section 130-SG): Receptacles for setting from the following purposes are excepted from Section 130-SG): Receptacles for setting from the following purposes are excepted from Section 130-SG): Receptacles for setting from the following purposes in kitchen are specifically for references in kitchen	Electrical Service Designation/ kVA (at the time) Historical for a kWh per Utility metering metering					
IT WILL VARV DEPRODUS ON CLIENTS STE PROJECT - RELOCAT ABLE PUBLIC STEP ROJECT - RELOCATION OF STEP ROJECT - RELOCATION OF STEP ROJECT - RELOCATION OF STEP ROJECT - RECEptables to cate day minimum of six ft above the floor that are specification from public of the force that copy rooms - Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 amperes Receptables on droubts rated more than 20 am	Location/Description www peak (kW) user-definable rate period system complies					
SITE PROJECT - RELOCATABLE PUBLIC 0 Copy rooms. SCHOOL Copy rooms. SCHOOL Copy rooms 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. A 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 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 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 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 Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance						
Remove Last Add 8ow Remove Last Add 18ow R	IT WILL VARY DEPENDING ON CLIENT'S				in	
use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits. A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 January 2016 A Building Energy Efficiency Standards - 2016 Nonresidential Compliance	SCHOOL E E E E E E E E E E E E E E E E E E			- Receptacles on circuits rated more than 20 amperes.		
A 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 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 Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	Add Row Remove Last					
A Building Energy Efficiency Standards - 2016 Nonresidential Compilance						
A Building Energy Efficiency Standards - 2016 Nonresidential Compilance						
A Building Energy Efficiency Standards - 2016 Nonresidential Compilance						
	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 Compliance	January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016
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APPROVED DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.#04-116504 DATE: 7-10-18 150 SIGN & CONSULTING PROJECT

777 BERNARDD PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128

SIONAL STAMP



WWW.RSTAVARES.COM

12/19/2017

ANS, IDEAS & DESIGNS SHOWN ON DRAWINGS ARE THE PROPERTY OF VARES ASSOCIATES, INC. DEVISED FOR THIS CONTRACT. THESE SHALL NOT BE USED, IN WHOLE OR r, FOR ANY PURPOSE FOR WHICH ERE NOT INTENDED WITHOUT THE SS WRITTEN CONSENT OF R&S ES ASSOCIATES, INC. ©



AL PC STATE AGENCY APPROVAL NUMBER: PC-128

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

RM FLS EA SSR KER E 07/19/2018

TITLE

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

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

CT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

04 118239

Revision Schedule Description

T TITLE 120'x40' T24 CZ 16 (WALL AC)

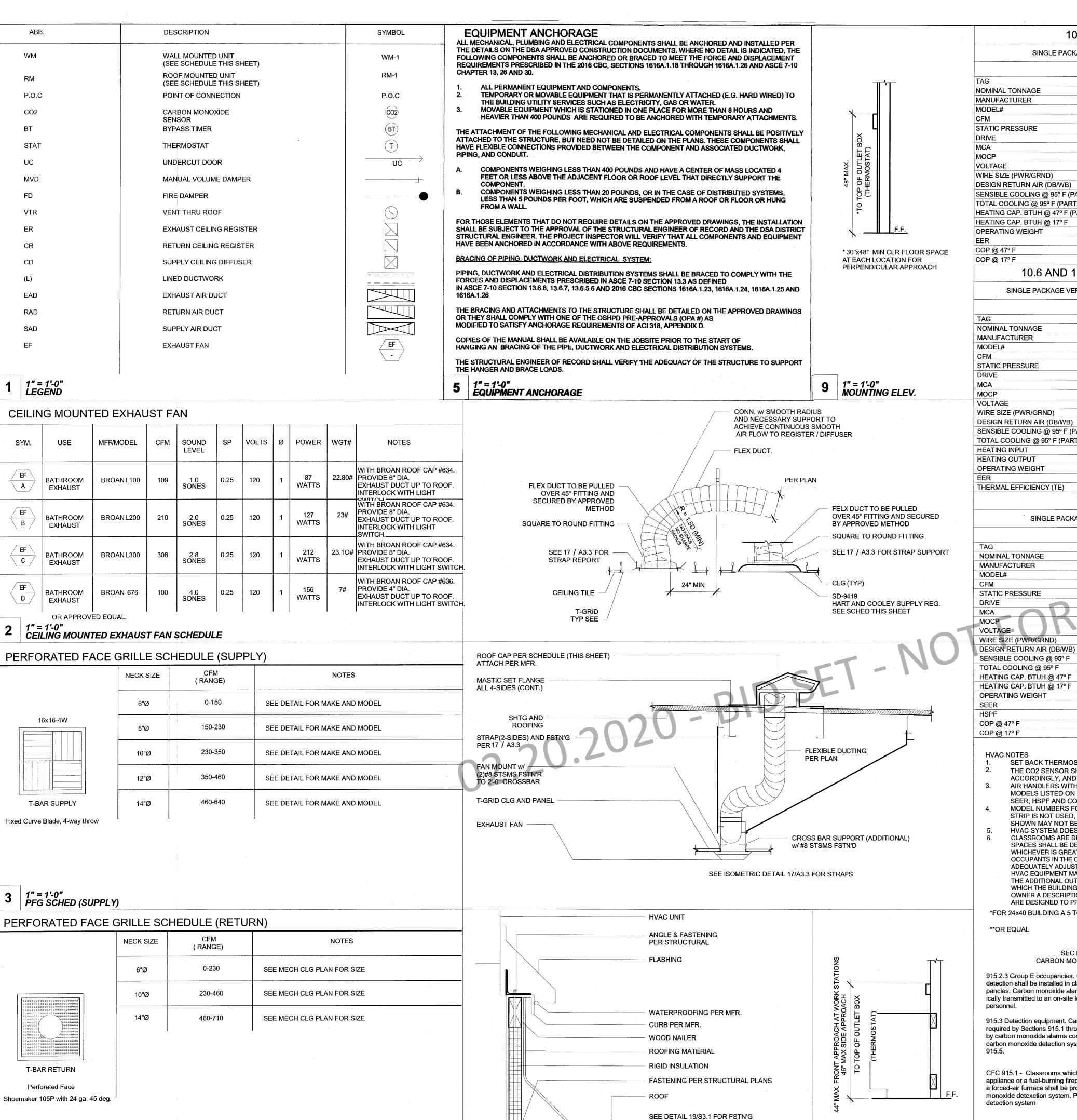
CT NUMBER

17016A DRAWN BY rMc/SC

CHECKED BY

DATE 2018/04/25

E2.3



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

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE \STANDARD OPTION #I OPTION #2 WM-1.2 WM-1.3 NOMINAL TONNAGE 4.0\TONS *5 TONS **3.5 TONS** MANUFACTURER **BARD **BARD MODEL# C48H1 C60H1 C42H1 1700 / 1550 1400 STATIC PRESSURE 3.0 DIRECT DIRECT MOCP VOLTAGE 208/230-1 208/230-1 208/230-1 WIRE SIZE (PWR/GRND) #6/#10 #6/#10 DESIGN RETURN AIR (DB/WB) 80/67 80/67 30.800/40.300 SENSIBLE COOLING @ 95° F (PART/FULL) 25.900/36.00 21.700/29.700 TOTAL COOLING @ 95° F (PART/FULL) 34.000/45/500 26.800/40.000 HEATING CAP. BTUH @ 47° F (PART/FULL) | 29.200/4/1.500 36.000\\$1.000 46.600/38.500 HEATING CAP. BTUH @ 17° F 26.000 32.000 25.000 OPERATING WEIGHT 580# 550# 10.60 11.00 COP @ 47° F 3.00 3.00 COP @ 17° F 2.00 2.00

10.6 EER and 11 EER

10.6 AND 11.0 EER (GAS ALTERNATE)

SINGLE PACKAGE VERTICAL AIR	CONDITIONER W	ITH GAS FURNACI	Ξ
	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

1600

BELT

208/230-1

#4/#8

80/67

35.260

49.000

45.500

28.600

560#

14.00

8.0

3.4

2.4

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

SET BACK THERMOSTAT SHALL BE PROVIDED

SHOWN MAY NOT BE USED.

**CARRIER

OPTION #I

*5 TONS

50KCQ06

208/230-1

#4/#8

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

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

WHICHEVER IS GREATER. PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF

**CARRIER

RM-1.2

OPTION #2

NOMINAL TONNAG

MANUFACTURER

STATIC PRESSURE

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

MCA

MOCP

SEER

AFUE

VOLTAGE

RM-1.3

50KCQ04

208/230-1

#6/#10

80/67

30.500

35.600

35.500

18.400

572#

14.00

2.3

HVAC SCHEDULE						
		# OF H	VAC			
BUILDING SIZE		3 1/2 TON HVAC	4 TON HVAC	5 TON HVAC		
X	24' x 40'	1				
П	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 RESERVE OF THE PROPERTY OF			

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

1600

BELT

36.1

208/230-1

#6/#10

35.260

49.000

90.000

73.000

14.00

80.4%

590#

80/67

4.0 TONS

**CARRIER

50KCQ05

OPTION #I

RM-2.2

*5 TONS

BELT

41.8

208/230-1

#6/#10

80/67

40.700

58.000

90.000

73.000

618#

14.3

80.4%

**CARRIER

50KCQ06

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:

HVAC EQUIPMENT DOES NOT CONTAIN CFCS OR HALONS.

1221 Harley Knox Boulevard Perris, CA 92571

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

EXPRESS WRITTEN CONSENT OF R&S

TAVARES ASSOCIATES, INC. ©

THEY WERE NOT INTENDED WITHOUT THE

SOLELY FOR THIS CONTRACT. THESE

THESE DRAWINGS ARE THE PROPERTY OF

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 17016A

DRAWN BY rMc/SC

CHECKED BY JA/RT

2017/06/05

SHEET NO.

SHEET OF SHEETS

MODEL NUMBERS FOR HEAT PUMP UNITS WITH OPTIONAL 5.0 AUXILIARY HEAT STRIPS, WHEN THE HEAT STRIP IS NOT USED, THE MCA AND MOCP MUST BE VERIFIED AND HEAT STRIPS LARGER THAN THE SIZES HVAC SYSTEM DOES NOT CONTAIN AN ECONOMIZER AND DEMAND CONTROL VENTILATION DEVICES CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT,

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 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

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

ACCOMMODATE DIFFERENTIAL MOVEMENTS

UTLILITIES THAT SPAN BETWEEN UNITS OR ACROSS SEISMIC SEPARATION JOINTS MUST BE DESIGNED WITH A FLEXIBLE CONNECTION THAT CAN

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% 348.45 356.36 15 (Palm Springs-Intl) 356.82 336.85 336.72 erence: Energy Code, Appendix NA4, Table NA4-3

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

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

< Least Compliance Margin Orientation

Project Name:

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 < * 0.40% * 0.40% 15 (Palm Springs-Intl) * 2.50% 384.85 16 (Blue Canyon) 334.47 * 0.60%

ference: 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.

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION

PROFESSIONAL STAMP

Page 1 of 19 120X40 (PC 04-116504) - Wall AC NRCC-PRF-01-E Project Name: Climate Zone 14 Palmdale Calculation Date/Time: 19:52, Sat, Jun 23, 2018 Project Address: 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x NewComplete Compliance Scope: A. PROJECT GENERAL INFORMATION 8. Standards Version Compliance2016 Palmdale 1. Project Location (city) 9. Compliance Software (version) EnergyPro 7.2 2. CA Zip Code 10. Weather File PALMDALE_723820_CZ2010.epw 3. Climate Zone 11. Building Orientation (deg) (E) 75 deg 4,800 ft² 4. Total Conditioned Floor Area in Scope

12. Permitted Scope of Work 5. Total Unconditioned Floor Area NewComplete 13 Building Type(s) Nonresidential 6. Total # of Stories (Habitable Above Grade) 14 Gas Type NaturalGas 7. Total # of dwelling units § 140.1

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

BUILDING COMPLIES	5
-------------------	---

		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	ime:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 2 of 19
Project Address: Climate Zone 14 Palmdale		Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018
Compliand	ce Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x
C. PRIOR	ITY PLAN CH	IECK/ INSPECTION ITEMS (in order of highest to	lowest TDV energy savings)	
1st	Indoor Light	ing: Check lighting	Compliance Margin By Energ	y Component (from Table B column 4)
2nd	Indoor Fans	: 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	and the second s				
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	Bellomest annotation and a				
		Space Cooling					
7th	Space Cooling: Check envelope and mechanical		Penalty Energy Credit				

D. EXCEPTIONAL CONDITIONS The building does not include service water heating. Verify that service water heating is not required and is not included in the design. This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is

E. HERS VERIFICATION This Section Does Not Apply

Project Address:

Compliance Scope:

F. ADDITIONAL REMARKS

For con	nponei	nts that utilize the	performance path, indicate the sheet number that includes mandatory notes on p	lans.
Building Component	Com	pliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on 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 .		
	Ø	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	KU	
	×	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
	一	NΔ		

Performance S2 (section of the NRCC-PRF-01-E)

NRCC-PRC-01/03-E

NRCC-PRC-01/04-E

NRCC-PRC-01/09-E

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

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

Prescriptive

] | Prescriptive

Performance

Prescriptive

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

NRCC-PRF-01-E

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

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

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

120X40 (PC 04-116504) - Wall AC

NewComplete

roject Name:

Project Address:

Compliance Scope:

Covered Process: Commercial Kitchens

overed Process:

Computer Rooms

Covered Process:

Laboratory Exhaust

20.2020 - BID SET

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

NRCC-PRF-01-E

Input File Name:

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

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

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

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06152018-5302 Page 4 of 19 120X40 (PC 04-116504) - Wall AC NRCC-PRF-01-E Climate Zone 14 Palmdale Calculation Date/Time: 19:52, Sat, Jun 23, 2018 Project Address: 120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x Compliance Scope: NewComplete

G. COMPL	IANCE PAT	TH & CERTIFICATE OF COM	PLIANCE SUMMARY				
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.		The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the 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		× ×	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			Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

(Retain copies and verify	ocumentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance etain copies and verify forms are completed and signed to post in field for Field Inspector to verify). The Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.		irmed
Building Component	Compliance Forms (required for submittal)	Pass	Fail
	☑ NRCI-ENV-01-E - For all buildings		
Envelope	☑ NRCA-ENV-02-F- NFRC label verification for fenestration		
	☑ NRCI-MCH-01-E - For all buildings with Mechanical Systems		
	☑ 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 Controls		
	□ 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 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 Controls		

roject Hame.		1			
Project Address:	Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018	23, 2018 Z14(Wall AC)R75RSPV.cibd16x	
Compliance Scope:	NewComplete	RSPV.cibd16x			
Documentation Author (Retain copies and ve	STALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFIC or to indicate which Certificates must be submitted for the features to rify forms are completed and signed to post in field for Field Inspector n MCH and LTI Details Sections for Acceptance Tests and forms by equi	be recognized for compliant to verify).		Confi	rmed
Building Component	Compliance Forms (required for submittal)			Pass	Fail
	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems				
	☐ NRCI-PLB-02-E - required on central systems in high-rise residenti	ial, hotel/motel application.			
	NRCI-PLB-03-E - Single dwelling unit systems in high-rise resident	ial, hotel/motel application.			
Dlumbing	NRCI-PLB-21-E - HERS verified central systems in high-rise residen	ntial, hotel/motel application			
Plumbing	NRCI-PLB-22-E - HERS verified single dwelling unit systems in high	NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.			
	NRCV-PLB-21-H- HERS verified central systems in high-rise resider	NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.			
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in hig	h-rise residential, hotel/mot	el application.		
	☐ NRCI-STH-01-E - Any solar water heating				
	☑ NRCI-LTI-01-E - For all buildings				
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Manager	ment Control System (EMCS)			
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, energize only line-voltage track lighting	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting			
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a	NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater			
Indoor Lighting	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (□ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)			
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferenci	NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio			
	NRCA-LTI-02-A - Occupancy sensors and automatic time switch co	ontrols.			
	☑ NRCA-LTI-03-A - Automatic daylighting controls				
	☐ NRCA-LTI-04-A - Demand responsive lighting controls				
	☐ NRCI-LTO-01-E – Outdoor 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 Lighting				
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution				
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems				

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NRCC-PRF-01-E Page 6 of 19

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

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

PROJECT TITLE **EXPANDABLE TO**

07/19/2018

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 120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER 17016A CHECKED BY

DATE 07/05/2018

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

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

□ NRCA-MCH-18-A- Energy Management Controls Systems

☐ NRCV-MCH-04-H- Duct Leakage Test

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

NewComplete

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

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

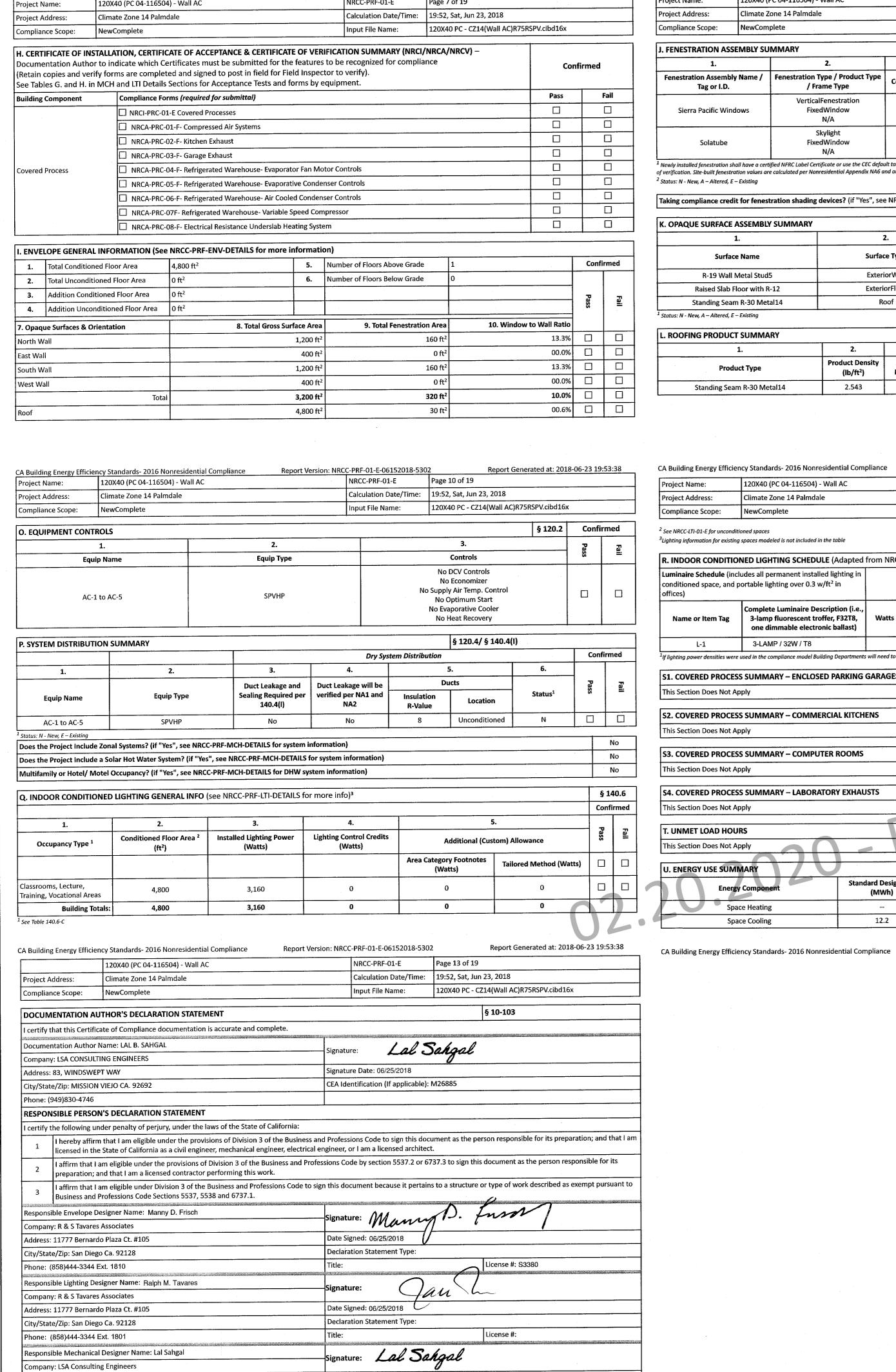
Report Generated at: 2018-06-23 19:53:38

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

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120X40 (PC 04-116504) - Wall AC

Project Name:	120X40 (I	PC 04-116504) - Wall AC			1	NRCC-PRF-01-E		Page 8 of 19						
Project Address:	Climate Z	one 14 Palmdale				Calculation Date	Time:	19:52, Sat	, Jun 23, 201	18				
Compliance Scope:	NewCom	plete				Input File Name:		120X40 P	C - CZ14(Wal	II AC)R75R	SPV.cibd1	6х		
. FENESTRATION ASS	EMBLY SU	MMARY			***************************************						§ 110.6		Conf	irmed
1.		2.		3.		4.	.]	5.	6.	7.	8.	9.		
Fenestration Assembl Tag or I.D.	y Name /	Fenestration Type / Pro / Frame Type		Certification Met	hod¹	Assembly Metho	d	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status ²	Pass	Fail
Sierra Pacific Win	dows	VerticalFenestra FixedWindov N/A		NFRC Rated		Manufactured		320	0.35	0.24	0.50	N		
Solatube		Skylight FixedWindov N/A	w	NFRC Rated		Manufactured	-	30	0.37	0.35	0.50	N		
verification. Site-built fenestr	ation values ar	ified NFRC Label Certificate or u: ge calculated per Nonresidential i	use the CEC defau Appendix NA6 a	ılt tables found in Table 1 nd are used in the analys	10.6-A and Table : is.	110.6-B. Center of Gla	ss (COG) vi	alues are for ti	ne glass-only, de	termined by t	the manufac	turer, and	are snowi	n for eas
verification. Site-built fenestr Status: N - New, A – Altered, E aking compliance cred	ation values ar – Existing it for fenes	e calculated per Nonresidential a	Appendix NA6 a	nd are used in the analys		22.2	ss (COG) vi	alues are for th		§ 120.7/		turer, and	No	
verification. Site-built fenestr Status: N - New, A - Altered, E Taking compliance cred	ation values ar – Existing it for fenes	e calculated per Nonresidential a	Appendix NA6 a	nd are used in the analys		22.2		alues are for the		§ 120.7/		8.	No Conf	
verification. Site-built fenestr tatus: N - New, A - Altered, E aking compliance cred	ation values ar - Existing it for feness ASSEMBLY	e calculated per Nonresidential a	Appendix NA6 a	nd are used in the analys	TAILS for more	e information) 4. Framing	Ca	5.		§ 120.7/	§ 140.3	8.	No	irmed
verification. Site-built fenestr Status: N - New, A - Altered, E Taking compliance cred C. OPAQUE SURFACE Surface	- Existing it for feness ASSEMBLY	tration shading devices?	? (if "Yes", see	nd are used in the analys NRCC-PRF-ENV-DE	TAILS for more	e information) 4. Framing	Ca R-V	5. C	6. ontinuous	§ 120.7/ 7 U-Factor / C-F	§ 140.3	8.	No Conf	irmed
verification. Site-built fenestr Status: N - New, A - Altered, E Taking compliance cred C. OPAQUE SURFACE	ation values ar Existing it for fenesi ASSEMBLY 1. E Name Metal Studi	tration shading devices? SUMMARY	Appendix NA6 a. (if "Yes", see Surfac Exteri	e NRCC-PRF-ENV-DE	TAILS for more	4. Framing Type	Ca R-V	5. C	6. ontinuous R-Value	§ 120.7/ 7 U-Factor / C-F	§ 140.3 7. / F-Factor	8 Status ¹	Conf	irmed
verification. Site-built fenestr Status: N - New, A - Altered, E Faking compliance cred C. OPAQUE SURFACE Surface R-19 Wall	ation values are Existing it for feness ASSEMBLY 1. te Name Metal Stud.	tration shading devices? SUMMARY 5	Appendix NA6 a. (if "Yes", see Surfac Exteri	nd are used in the analys e NRCC-PRF-ENV-DE 2. ce Type orWall	TAILS for more 3. Area (ft*	4. Framing Type Metal	Ca R-V	5. Cavity C	6. ontinuous R-Value	§ 120.7/ U-Factor / C-F U-Facto	§ 140.3 7. / F-Factor actor or: 0.104	& Status ¹ Z	No Confi	irmed
verification. Site-built fenestr Status: N - New, A - Altered, E Faking compliance cred C. OPAQUE SURFACE Surface R-19 Wall Raised Slab I Standing Sear	ation values ar Existing it for feness ASSEMBLY 1. De Name Metal Stud. Floor with R m R-30 Metal	tration shading devices? SUMMARY 5	Appendix NA6 a. (if "Yes", see Surfac Exteri	nd are used in the analys e NRCC-PRF-ENV-DE 2. ce Type orWall orFloor	3. Area (ft: 3200 4800	4. Framing Type Metal Metal	Ca R-V	5. Covity Covidate 19	6. ontinuous R-Value 4 NA	§ 120.7/ U-Factor / C-F U-Facto	§ 140.3 7. / F-Factor actor or: 0.104 or: 0.091	ο Status¹ Z Z	No Confi	irmed
verification. Site-built fenestr Status: N - New, A - Altered, E Taking compliance cred C. OPAQUE SURFACE Surfac R-19 Wall Raised Slab Standing Sea Status: N - New, A - Altered, E	ation values ar Existing it for feness ASSEMBLY 1. Re Name Metal Stud Floor with R m R-30 Met Existing	tration shading devices? Y SUMMARY 5 -12 al14	Appendix NA6 a. (if "Yes", see Surfac Exteri	nd are used in the analys e NRCC-PRF-ENV-DE 2. ce Type orWall orFloor	3. Area (ft: 3200 4800	4. Framing Type Metal Metal	Ca R-V	5. Covity Covidate 19	6. ontinuous R-Value 4 NA	§ 120.7/ U-Factor / C-F U-Facto	§ 140.3 7. / F-Factor actor or: 0.104 or: 0.091 or: 0.072	ο Status¹ Z Z	No Confi	irmed
F verification. Site-built fenestr Status: N - New, A - Altered, E Taking compliance cred K. OPAQUE SURFACE Surface R-19 Wall Raised Slab	ation values ar Existing it for feness ASSEMBLY 1. Re Name Metal Stud Floor with R m R-30 Met Existing	tration shading devices? Y SUMMARY 5 -12 al14	Appendix NA6 a. (if "Yes", see Surfac Exteri	nd are used in the analys e NRCC-PRF-ENV-DE 2. ce Type orWall orFloor	3. Area (ft: 3200 4800	4. Framing Type Metal NA	Ca R-V	5. Covity Covidate 19	6. ontinuous R-Value 4 NA	§ 120.7/ U-Factor / C-F U-Facto	§ 140.3 7. / F-Factor actor or: 0.104 or: 0.091 or: 0.072	8. Status¹ Z Z Z	No Confi	irmed
For interest of the state of th	ation values ar Existing it for feness ASSEMBLY 1. te Name Metal Stud. Floor with R m R-30 Met Existing T SUMMA	tration shading devices? SUMMARY 5 -12 al14 RY	Appendix NA6 a. (if "Yes", see Surfac Exteri Exteric	e NRCC-PRF-ENV-DE Re Type orWall orFloor	3. Area (ft: 3200 4800	4. Framing Type Metal Metal NA	Ca R-V	5. C	6. ontinuous R-Value 4 NA NA	§ 120.7/ U-Factor / C-F U-Factor 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	No Confi	irmed

Project Name:	120X40 (PC 04-116504) - Wall AC		NRC	CC-PRF-01-E	Page 11 of 19	·		
Project Address:	Climate Zone 14 Palmdale		Calc	culation Date/Time:	19:52, Sat, Jun 23, 201	18		
Compliance Scope:	NewComplete		Inpu	ut File Name:	120X40 PC - CZ14(Wal	II AC)R75RSPV.cibd16x		
See NRCC-LTI-01-E for uncon Lighting information for exist	ditioned spaces ing spaces modeled is not included in the table							
R. INDOOR CONDIT	ONED LIGHTING SCHEDULE (Adapted	from NRCC-LTI-01-E)1					§ 13	30.0
	ncludes all permanent installed lighting in d portable lighting over 0.3 w/ft² in		lı	nstalled Watts (Cond	litioned)		Confi	irmed
	Complete Luminaire Description (i.e.,		How Wattage	is Determined	Total Number			
Name or Item Tag	3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	CEC Default According to from NA8 §130.0(c)		Luminaires	Installed Watts	Pass	Fa
L-1	3-LAMP / 32W / T8	96	Yes	No	40	3,840		
This Section Does Not	Apply		12.27					
S2. COVERED PROC	ESS SUMMARY – COMMERCIAL KITCHI	ENS				§ 140.9		
This Section Does Not	Apply							
S3. COVERED PROC	ESS SUMMARY – COMPUTER ROOMS				§ 140.9			
This Section Does Not	Apply							
S4. COVERED PROC	ESS SUMMARY – LABORATORY EXHAU	STS				§ 140.9		
This Section Does Not	Apply							
		$-\Delta H$						
T. UNMET LOAD HO	URS	1411						

Project Name:	120X40 (PC 04-116504) - Wall AC		NRCO	C-PRF-01-E	Page 11 of 19			
Project Address:	Climate Zone 14 Palmdale		Calcu	ılation Date/Time:	19:52, Sat, Jun 23, 201	.8		
Compliance Scope:	NewComplete		Input	t File Name:	120X40 PC - CZ14(Wal	I AC)R75RSPV.cibd16x	,	
	g spaces modeled is not included in the table	I from NPCC ITI 01 EV	1				§ 13	30.0
	ONED LIGHTING SCHEDULE (Adapted		· · · · · · · · · · · · · · · · · · ·	*******			3 20	
•	cludes all permanent installed lighting in portable lighting over 0.3 w/ft ² in		in	stalled Watts (Cor	nditioned)		Confi	rme
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8,	, Watts per luminaire	How Wattage	is Determined According to	Total Number	Installed Watts	Pass	Fa
	one dimmable electronic ballast)		from NA8	§130.0(c)	Luminaires			
L-1	3-LAMP / 32W / T8	96	Yes	No	40	3,840		
If lighting power densities were	e used in the compliance model Building Departmen	ts will need to check prescriptiv	e forms for Luminaire Schedu	ule details.	-			
S1 COVERED PROCES	SS SUMMARY – ENCLOSED PARKING	GARAGES				§ 140.9		-
							-	
This Section Does Not A	рріу							
S2. COVERED PROCES	SS SUMMARY – COMMERCIAL KITCI	IENS				§ 140.9		
This Section Does Not A	pply							
S3. COVERED PROCES	SS SUMMARY – COMPUTER ROOMS	•			§ 140.9			
This Section Does Not A	pply							
S4. COVERED PROCES	SS SUMMARY – LABORATORY EXHA	USTS				§ 140.9		
This Section Does Not A	pply	-						
		$-\Omega +$						
T. UNMET LOAD HOU		- 141						
This Section Does Not A	pply				·	· · · · · · · · · · · · · · · · · · ·		
	MARY				· · · · · · · · · · · · · · · · · · ·		_	
U. ENERGY USE SUM	IVICALLY .		Dunmand Danien Site	Margin	Standard Design Site	Proposed Design Site		argii
U. ENERGY USE SUM Energ		dard Design Site (MWh)	Proposed Design Site (MWh)	(MWh)	(MBtu)	(MBtu)	(N	/IBtu
Energ	Star	- 1					(N	//Btu

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75RSPV.cibd16x			Compliance Sco
			U. ENERGY US
	§ 13	30.0	
	Confi	rmed	
Installed Watts	Pass	Fail	
3,840			
§ 140.9			
§ 140.9	-		OR
1.9			
roposed Design Site (MBtu)		argin 1Btu)	
	- 1		ĺ

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

M. HVAC SYSTE	M SUMMARY (see N	RCC-PRF-MCH-D	ETAILS	S for more info	rmation)					§ 110.1 / § 110.	2		
		Dry S	System	Equipment ¹ (Fa	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)	000,000 (1,711,7	(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)

. ECONOMIZE	R & FAN S	YSTEMS S	UMMAR	Y 1								§ 140.4	Confi	irmed
1.	2.				3.					4.		5.		
	Outside Air			Supp	oly Fan				Retu	urn Fan		- Economizer Type	Pass	Faii
Equip Name	CFM	CFM	НР	ВНР	TSP (inch WC)	Control	CFM	НР	ВНР	TSP (inch WC)	Control	(if present)	35	=
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

CA Building Energy Effic	ciency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-06152018-530	2 Report Generated at: 2018-06-23 19:53:3
Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 12 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

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	47-121					
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

SHEET OF SHEETS

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Address: 83, Windswept Way

Phone: (949)830-4746

City/State/Zip: Mission Viejo Ca. 92692

Report Version: NRCC-PRF-01-E-03092018-5302

Date Signed: 06/25/2018

Declaration Statement Type:

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

License #: M26885

3.

Description of Assembly Layers

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 Concrete - 140 lb/ft3 - 4 in. Metal framed floor, 24in. OC, 5.5in., R-11

> Plywood - 1/2 in. Carpet - 3/4 in.

Metal Standing Seam - 1/16 in.

Metal standing seam roof, R-30

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

NRCC-PRF-ENV-DETAILS -SECTION START-

2.

Surface Type

ExteriorWall

ExteriorFloor

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

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

A. OPAQUE SURFACE ASSEMBLY DETAILS

Surface Name

R-19 Wall Metal Stud5

Raised Slab Floor with R-12

Standing Seam R-30

Metal14

This Section Does Not Apply

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

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	

2. VENTILATION (§ 120.1)

120.0 | 15.00 | 1,800 | 1,800 |

NRCC-PRF-LTI-DETAILS -SECTION START-

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

NewComplete

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

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

NewComplete

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

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)

Climate Zone 14 Palmdale

Project Name:

Project Address:

Compliance Scope:

Room Number

Non-Rectangular Spaces

This Section Does Not Apply

5. Wall Display

This Section Does Not Apply

This Section Does Not Apply

120X40 (PC 04-116504) - Wall AC

Task/Activity Description

NA

Project Name:

Project Address:

Compliance Scope:

Confi	rmed	A. INDOOR COI	NDITIONED LIGHTING CONTROL			§ 140.6					
		Lighting Con		ighting controls installed in condition 40.6(a)2 and Table 140.6-A)	ed space for	Con	√ If Acceptance	Confi	rmed		
70	_	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	1 ' !	Pass	Fail
ass	Fail	S-1-First Floor	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0			

NRCC-PRF-01-E

Input File Name:

Page 17 of 19

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

§ 140.6-D

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

RCR

NA

0

Pass Fail

Confirmed

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

'			
	B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	§ 1	30.1
	This Section Does Not Apply		

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 1	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

This Section Does Not Apply			
		T	
E. GENERAL LIGHTING FROM SPEC	 d from NRCC-LTI-04-E)	§ 140.6(c) 3H	

	FROM SPECIAL FUNCTION AREAS (Adap	Illuminance Value	04-E) Room Cavity Ratio		51 4 (6.2)		§ 140.6(rmed
Room Number	Primary Function Area	(LUX)	(Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Pass	Fail
NA	NA	NA	NA	NA	NA	NA		

Rectangular Spaces

Room Length (ft)

NA

Combined Floor Display and Task Combined Ornamental and Special

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

NRCC-PRF-01-E

Input File Name:

Room Width (ft)

NA

Page 18 of 19

Room Cavity Height (ft)

Very Valuable Merchandise

0

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

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

1.	2.	3.	4	l.	5.	6.	1	7.			8.		Confi	irmed
System ID	System Type	Otv	Rated ((kB	Capacity tuh)	Economizer	Zone Name	A	irflow (cfr	n)		Fan		Pass	Fa
System ID	Зузісні туре	Qty	Heating	Cooling	Economizer	Zone Name	Design	Design Min. Mi		внр	Cycles	ECM Motor	SS	=
1-First Floor-Trm	Uncontrolled	5	NA	NA	. NA	1-First Floor	6250	NA	NA	NA	NA			
. EXHAUST FAN SUI	MMARY													

AC-1 to

AC-5

D.	DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)
Th	is Section Does Not Apply

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

NRCC-PRF-MCH-DETAILS -SECTION START-

AC-1 to

AC-5

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

6,250

CONDITIONED

ZONE NAME

1-First Floor

This Section Does Not Apply

Confirmed

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

Notes

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)

1. DESIGN AIR FLOWS

CA Building Energy Ef	ficiency Standards- 2016 Nonresidential Compliance	Report Version: NRC	CC-PRF-01-E-06152018-530	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

1 Toject Hairie.	120X40 (1 C 04-110304) - Wall AC	MICC-FINI-01-E	Fage 10 01 13
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 CEI	NTRAL DHW SYSTEM DETAILS		

Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x
	·

Declaration o		d Accepta	nce Certi	ficates (N	IRCA) – A	cceptance	Certifica	tes that n	nay be sul	omitted. (Retain cop	oies and v	erify form	ns are con	npleted an	nd signed	to post in	field for	Field
Test Descri		MCH-02A	МСН-03А	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	Confirme
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

		PA A	A8	4A	5 A	6A	7A	8A	9A	8	5	A	βA	\$	5A	6A	7A	8		
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	Fail
AC-1 to AC-5	5	Х													-		7.			
H. EVAPORA	TIVE CO	OI ED SII	MANAADV	,																_

	()		et				6. Floor Display and Task Lighting
-	 	-	-	-			This Section Does Not Apply
					•		7. Combined Ornamental and Special Ef

§ 140.4

American III	
7. Combined Ornamental and Special Effects Lighting	
This Section Does Not Apply	
8. Very Valuable Merchandise	

Effects Lighting

	H. EVAPORATIVE COOLER SUMMARY	
	This Section Does Not Apply	
02.	20.2020	BIV
	CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PF

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

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

CA Building Energy Efficie	ency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-06152018-530	Report Generated at: 2018-06-23 19:53:38
Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 19 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

H. INDOOR & OUTDOOR LIG	HTING ACCEPTANCE T	ESTS & FORMS (Adapted from	NRCC-LTI-01-E and NRC	CC-LTO-01-E)		§ 1	30.4
Declaration of Required Accept	tance Certificates (NRCA)	–Acceptance Certificates that mu Field	ust be verified in the field. Inspector to verify).	(Retain copies and verify form	are completed and signed	to post in	field fo
Took Doored			Indoor		Outdoor	Conf	irmed
Test Descri	ption	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	. 🗆	×				
Demand Responsive	0						
Outdoor Controls	0						

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION



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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'

> 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 0 7 2019

Revision Schedule

Description

120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER 17016A DRAWN BY

rMc/SC CHECKED BY JA/RT

SHEET NO.

DATE 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

Sec. 120.2 (a) & (b)

Sec. 120.2 (f) 2) Demand Control Ventilation Devices (CO2 sensors) shall be installed in accordance with Sec.

1) Outdoor air supply and exhaust equipment shall be installed with dampers that automatically

Sec. 120.1 (c) 4 3) Each space-conditioning system shall be installed with controls that comply with Items 1 and 2

- 1) Are capable of automatically shutting off the system during periods of non-use and shall have:
 - a) An automatic time switch control device complying with Sec. 119(c), with an accessible manual override that allows operation of the system for up to
 - 4 hours; or An occupancy sensor; or
 - A four-hour timer that can be manually operated.
 - EXCEPTION: Mechanical systems serving retail stores and associated malls, restaurants, grocery stores, churches, and theaters equipped with 7day programmable timers.
- 2) Automatically restart and temporarily operate the system as required to maintain: a) A setback heating thermostat set point, if the system provides mechanical

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. Sec. 120.3

readily accessible manual shut-off switch.

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

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

Date

PROJECT NUMBER

120'x40' T24 CZ 16 (WALL AC)

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

M2.4

SHEET OF SHEETS

07/05/2018

02.20.2020 - BID SET - NOT FOR CONST.

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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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 7 2019

Revision Schedule
Description Da

SHEET TILE

ME CHANICAL

CELLING PLAN

24x40

PROJECT NUMBER

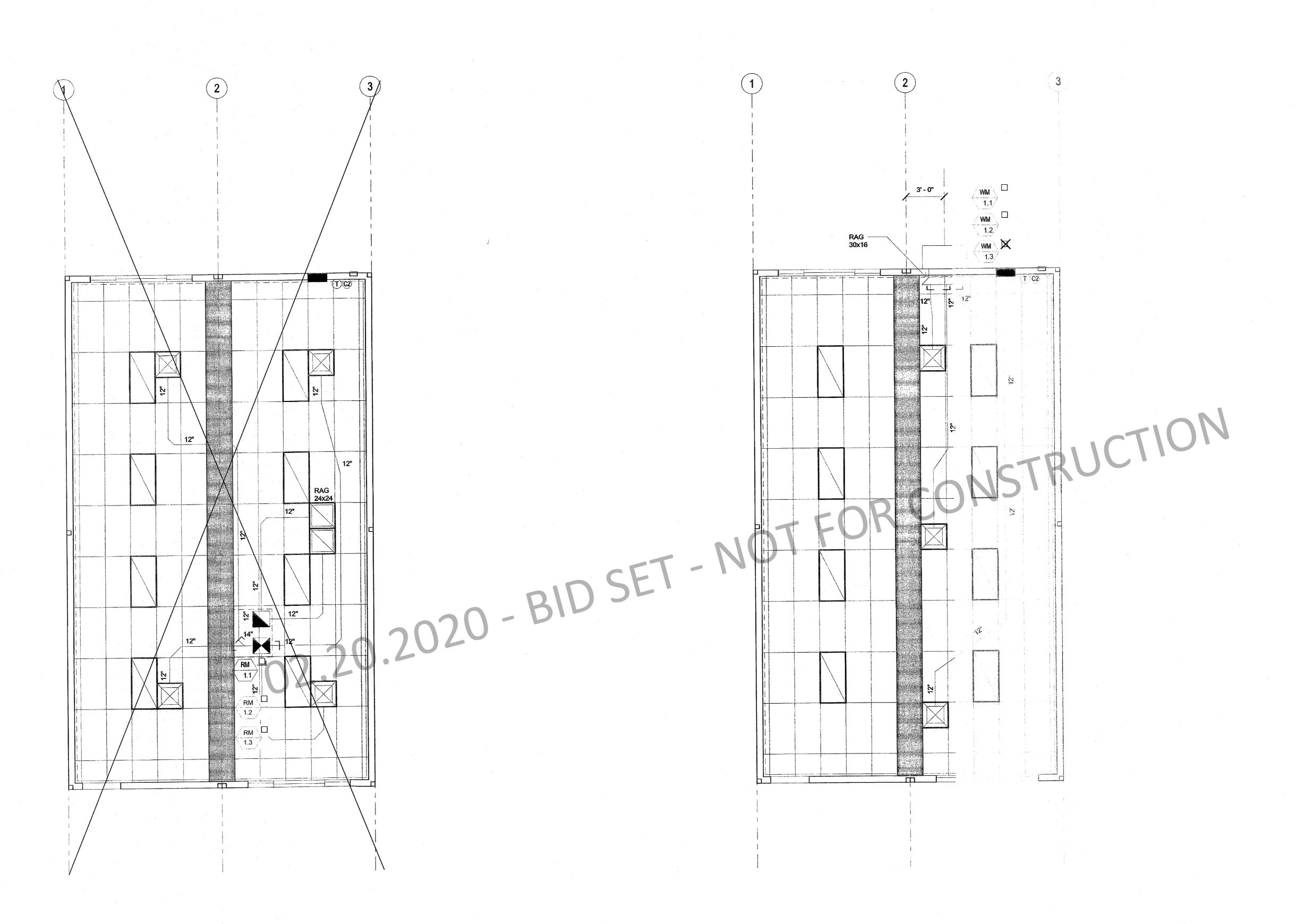
17016A DRAWN 6Y

CHECKED BY

GATE 2017/0**6/0**5

SHEET NO.

W5.1



ALL OTHER: 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

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

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

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.

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

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

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.

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)

QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTIFY AND CERTIFY TO EACH

LOAD BY A BATCH TICKET. 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 DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND INSPECTOR WILL KEEP A APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TIME OF RECEIPT, AND

TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY. ANCHOR BOLTS, AND REINFORCING STEEL SHALL BE SECURELY TIED BEFORE CONCRETE IS

STEEL REINFORCEMENT

POURED.

DEFORMED BARS SHALL CONFORM TO ASTM A615.

fy= 40,000 PSI, FOR ALL BARS EXEPT FOR #3 BARS, fy= 60,000 PSI.

PROVIDE A MINIMUM CONCRETE COVER FOR REINFORCEMENT EMBEDDED IN: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"

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 UNLESS OTHERWISE SPECIFIED DRAWINGS.

ALL BOLTS AND ANCHOR BOLTS SHALL COMFORM ATO ASTM A-307

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

AWS D1.3 FOR LIGHT GAUGE STEEL AWS D1.4 FOR REINFORCING STEEL

ELECTRODE CLASSIFICATION:

a. E70XX FOR STEEL AND CONCRETE STEEL REINFORCEMENT

E60XX FOR LIGHT GAUGE STEEL

WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V-NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER

LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT-LB AT 0 DEGREE F COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT-LB AT 40 DEGREE F

SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

INSPECTION:

PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND

ROOF DECK WELDS. 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 SECTION N5.5e, AISC-360 IS MET.

PROVISIONS SET FORTH IN 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:

ALL WORK SHALL, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED

IN ACCORDANCE WITH CURRENT AISI SPECIFICATIONS AND STANDARDS.

MATERIAL SPECIFICATION: ASTM A-1011/A, GRADE 33 FOR MATERIALS THICKNESS 0.120 OR LESS UNLESS OTHERWISE NOTED

ASTM A-1003, GRADE 33 TYPE H FOR LIGHT GUAGE STUDS AND TRACKS 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.

<u>CHANGES</u>

12" = 1'-0" CHANGES AFFECTING STRUCTURAL PORTION OF THE APPROVED PC SHALL NEED DSA APPROVAL AND STRUCTURAL SHOTE'S CLASSIFIED AS CCD CATEFORY A.

ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY

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:

STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL

OPTION: 5/8" MOD OPTION: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH

OPTION: 1/2" OSB OR CDX PLYWOOD FOR HARDIE BOARD (LAP SIDING) FINISH

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. 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

LIGHTWEIGHT CONCRETE FLOOR CONCRETE FLOOR DATA: STRENGTH: 3500 PSI

COPPER PER CBC 2304.9.5.1

TYPF: LOR 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

SCREWS AT 24" OC.

NAILING NOTES:

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:

PRE-DRILLED CLEARANCE AND LEAD HOLE SHALL BE REQUIRED AS DESCRIBED BELOW: THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OR THE SHANK SHALL HAVE SAME DEPTH AND

LAG SCREWS SHALL BE INSTALLED WITH WASHER AND TURNED BY WRENCH, OVER-TORQUING SHALL BE AVOIDED. A

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, $0.5 < G \le 0.6$ 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

HILTI X-CR PIN WITH 0.145 SHANK DIAMTER, ICC ESR-1663 RAMP SET 1500 PIN WITH 0.145 SHANK DIAMETER, ICC ESR-1799

SIMPSON STRONG TIE PDP PIN WITH 0.145 SHANK DIAMETER, ICC ESR-2138

NAILING SCHEDULE: (ALL NAILS SHALL BE COMMON, GALVANIZED WHERE EXPOSED) PER C.B.C. TABLE 2304.9.1

-	CONNECTION	FASTENING	LOCATION
1.	JOIST TO SILL OR GIRDER	3-8d	TOENAIL
	BRIDGING TO JOIST	2-8d	TOENAIL EA. END
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
	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
0.	OR	4-8d	TOENAIL
9.	DOUBLE STUDS	16d@24"	END NAIL
		_	
10.	DOUBLE TOP PLT.	16d@16"	TYP. FACE NAIL
	DOUBLE TOP PLT.	8-16d MIN. U.N.O.	LAP SPLICE
11.	BLKG. BTW. JOIST OR RAFTERS TO TOP PLT.	3-8d	TOENAIL
12.	RIM JOIST TO TOP PLT.	8d@6"	TOENAIL
13.	TOP PLT., LAPS & INTERSECTIONS	2-16d	FACE NAIL
14.	CONT. HDR. 2 PIECES	16d@16"	ALONG EDGE
15.	CLG. JOIST TO PLT.	3-8d	TOENAIL
	CONT. HDR. TO STUD	4-8d	TOENAIL
	CLG. JOIST LAP OVER PARTITONS	3-16d	FACE NAIL
18.	CLG. JOIST PARALLEL TO RAFTERS	3-16d	FACE NAIL
19.	RAFTER TO PLT.	3-8d	TOENAIL
20.	1" DIA. BRACE TO EA. STUD & PLT.	2-8d	FACE NAIL
21.	1X8 SHT'G. TO EA. BRG.	3-8d	FACE NAIL
22.	WIDER THAN 1X8 SHT'G. TO BRG.	3-8d	FACE NAIL
23.	BUILT-UP CORNER STUDS	16d@24"	FACE NAIL
24.	BUILT-UP GIRDERS & BEAMS	20d@32"	FACE NAIL @ TOP & BTM. STAGR. ON OPP. SIDES
		2-20d	FACE NAIL @ ENDS & @ EA. SPLICE
25	2" PLANKS	2-16d	@ EA. BRG.
	COLLAR TIE TO RAFTER	3-10d	FACE NAIL
	JACK RAFTER TO HIP	3-10d 3-10d	TOENAIL
	ROOF RAFTER TO 2X RIDGE	2-16d 2-16d	TOENAIL FACE NAIL
29.	JOIST TO BAND JOIST	3-16d	FACE NAIL
	4X BLOCKING TO STUDS	1-A34	FACE NAIL

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' 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

STRUCTURAL GEN

NOTES

17016A

JA/RT

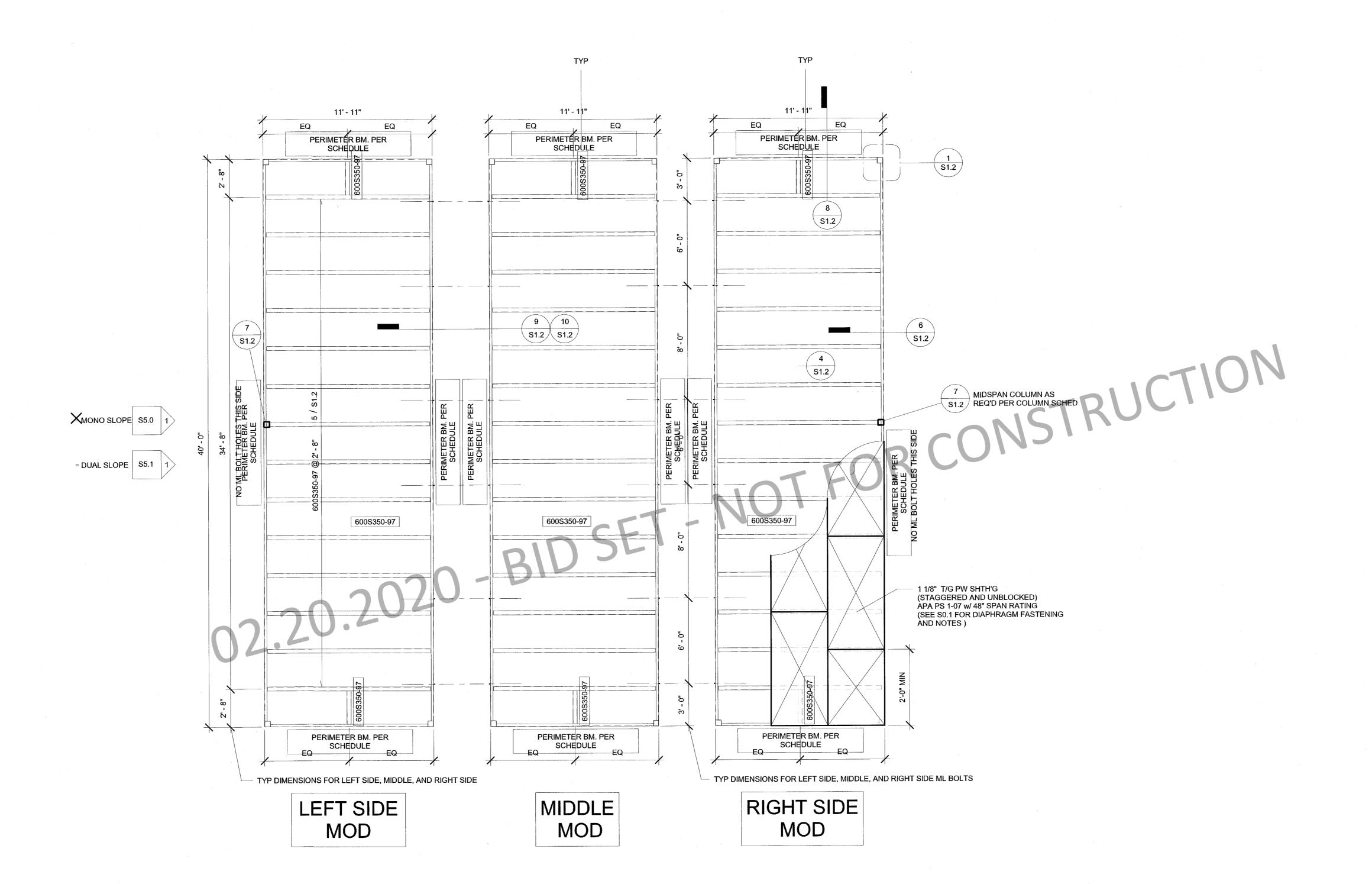
PROJECT NUMBER

DRAWN BY rMc/SC

2017/06/05

CHECKED BY

SHEET NO.



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
⋈ 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

WWW.RSTAVARES.COM

PROFESSIONAL STAMP



12/19/2017

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CL/

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

Revision Schedule

Description

WD SHTH'G FLR FRM'G PLAN (50+15 PSF)

PROJECT NUMBER

17016A

DRAWN BY

rMc/SC

CHECKED BY

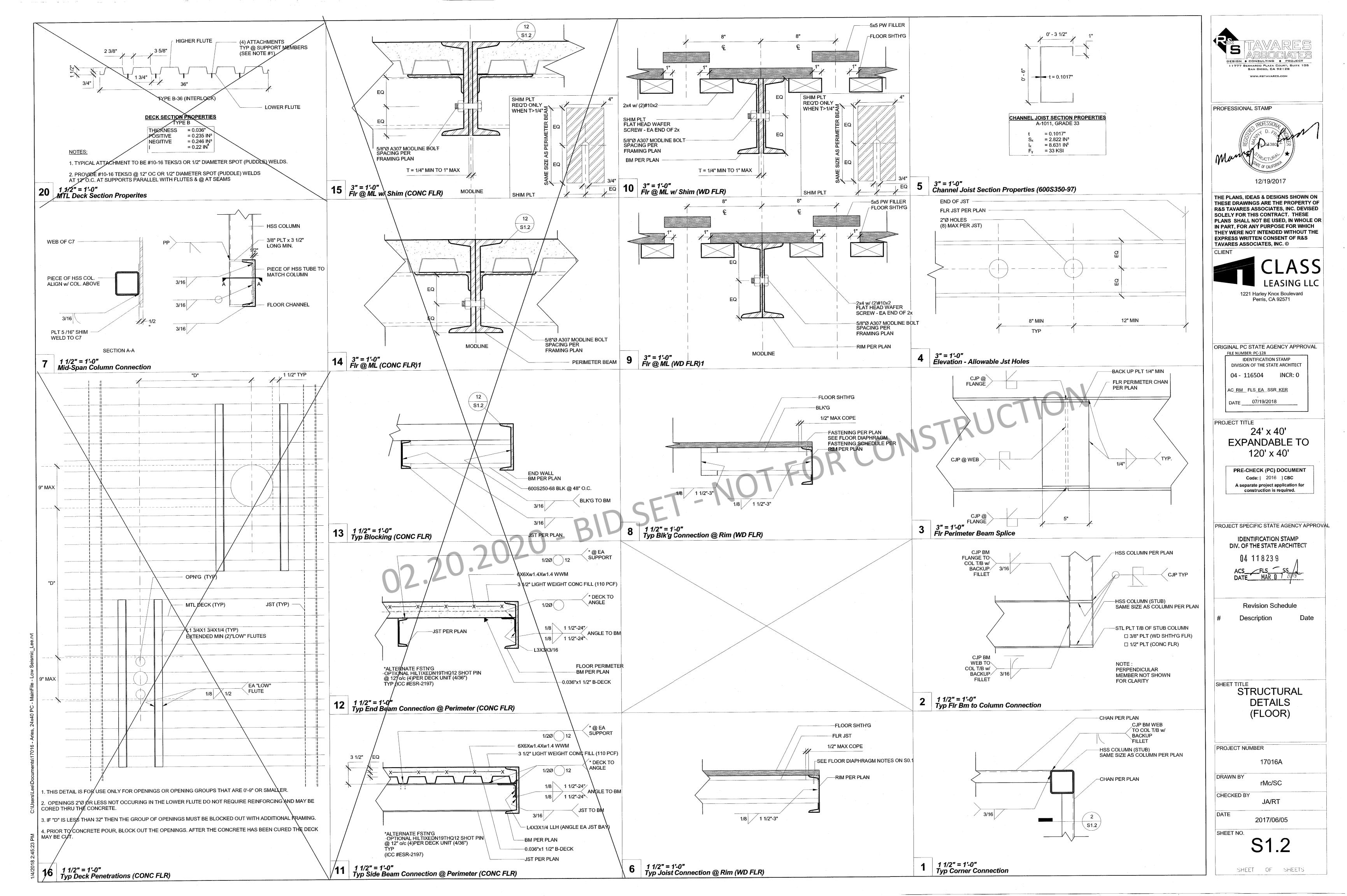
JA

2017/06/05

S10

SHEET OF SHEETS

1/4" = 1'-0" WD Shth'g FIr Framing Plan (50+15 PSF)



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

S3.1

(1 BRACE AT ___/

EITHER BLK'G)

800S200-68

(12 S3.1)

800S350-118

S3.1

S3.2

S3.2

PARAPET WALL (18" MAX)

METAL PARAPET

WOOD PARAPET

800S350-118

(2

S3.2



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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_0 7 2010

Revision Schedule

Description

SHEET TITLE MONO SLOPE ROOF FRM'G PLAN

PROJECT NUMBER 17016A DRAWN BY rMc/SC

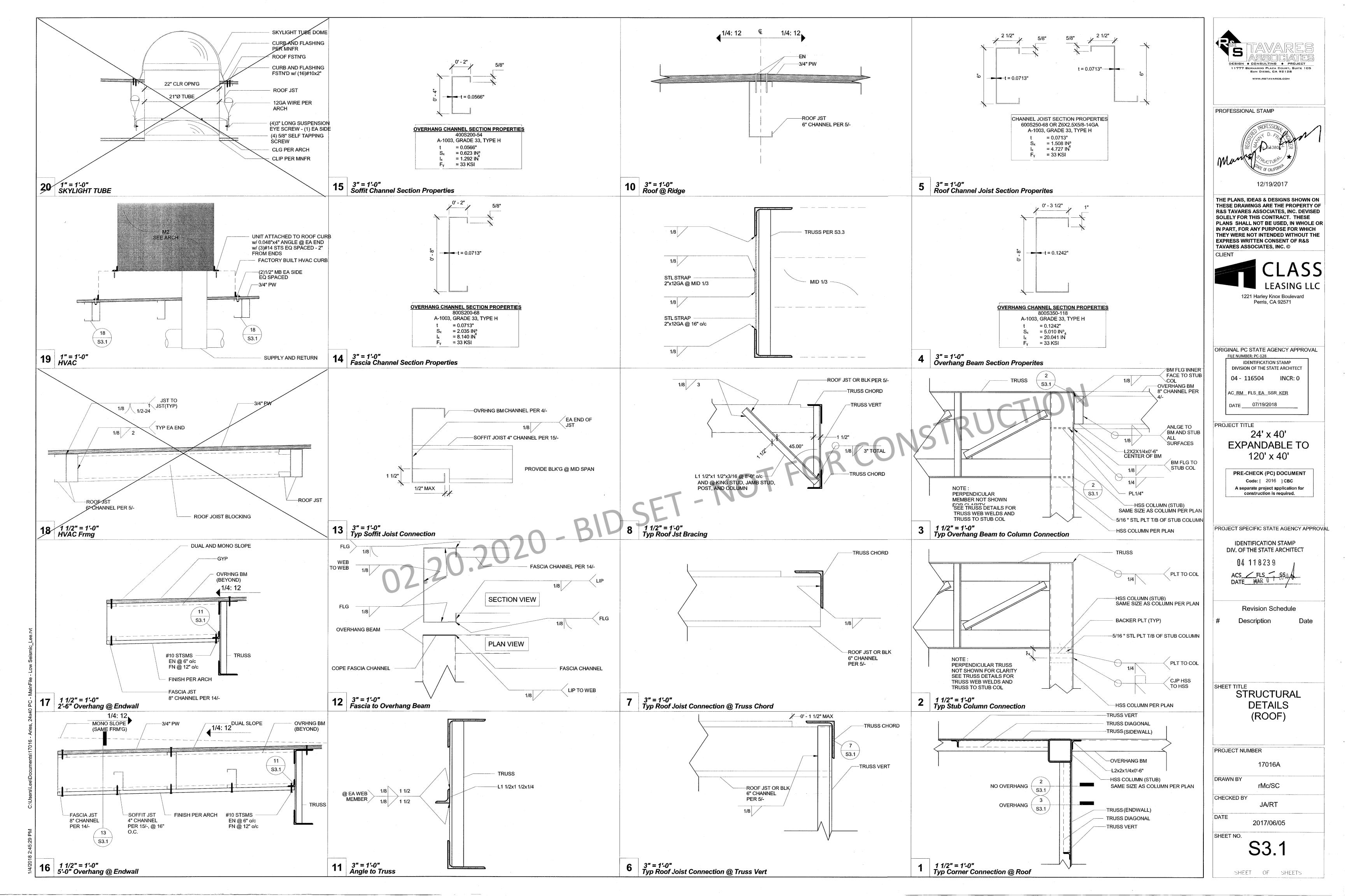
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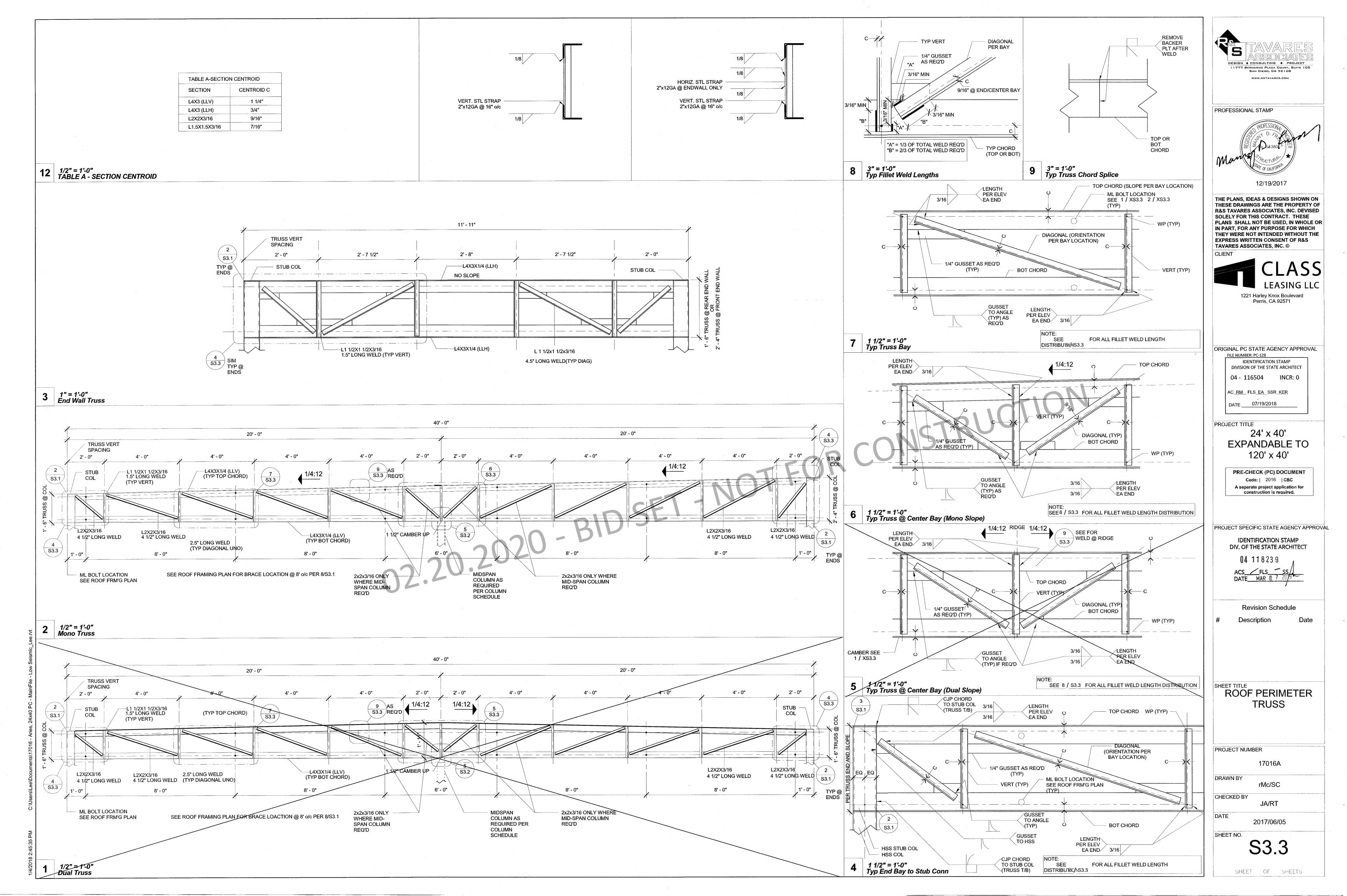
DATE 2017/06/05

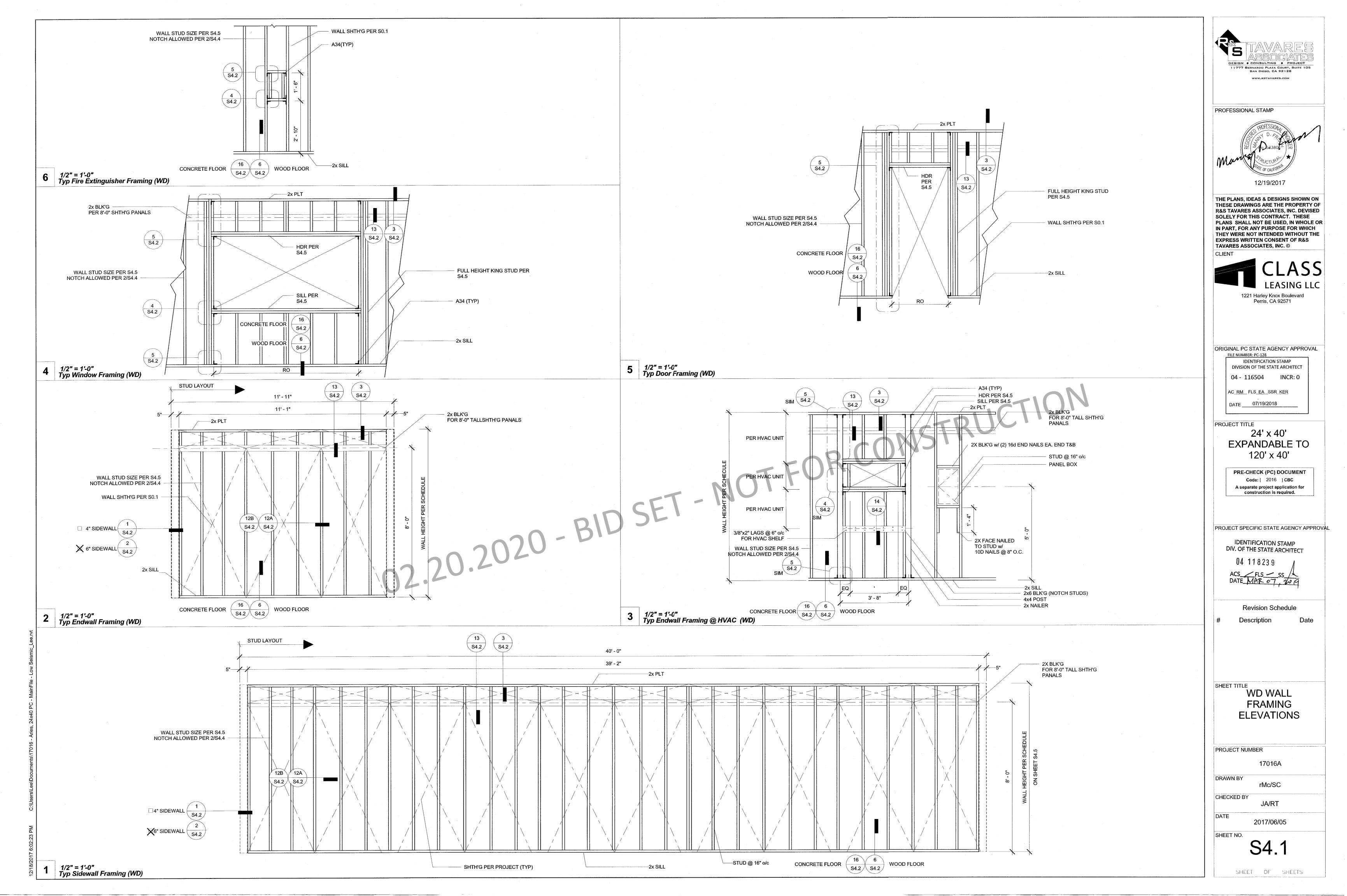
SHEET NO. S3.0.1

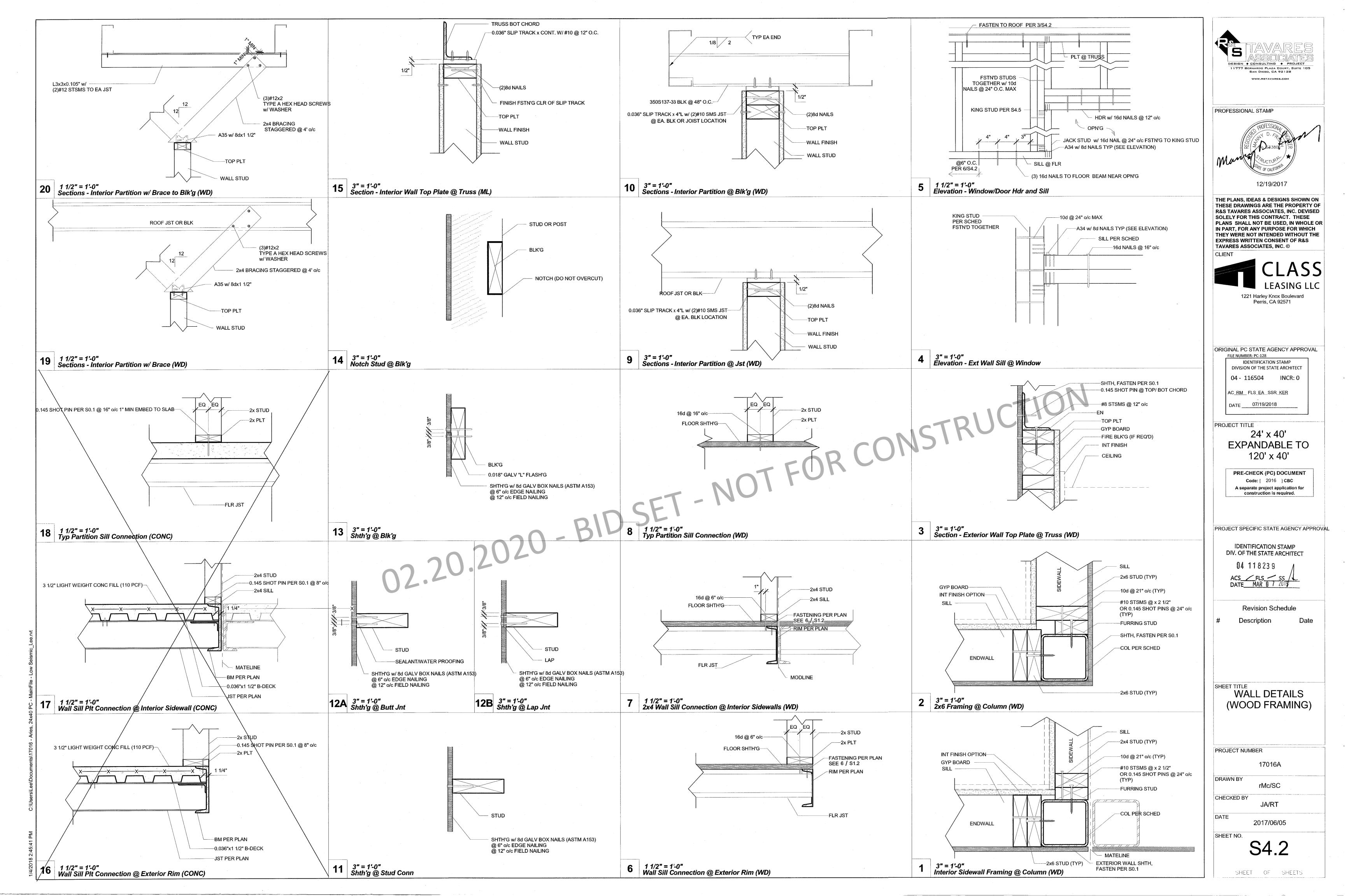
SHEET OF SHEETS

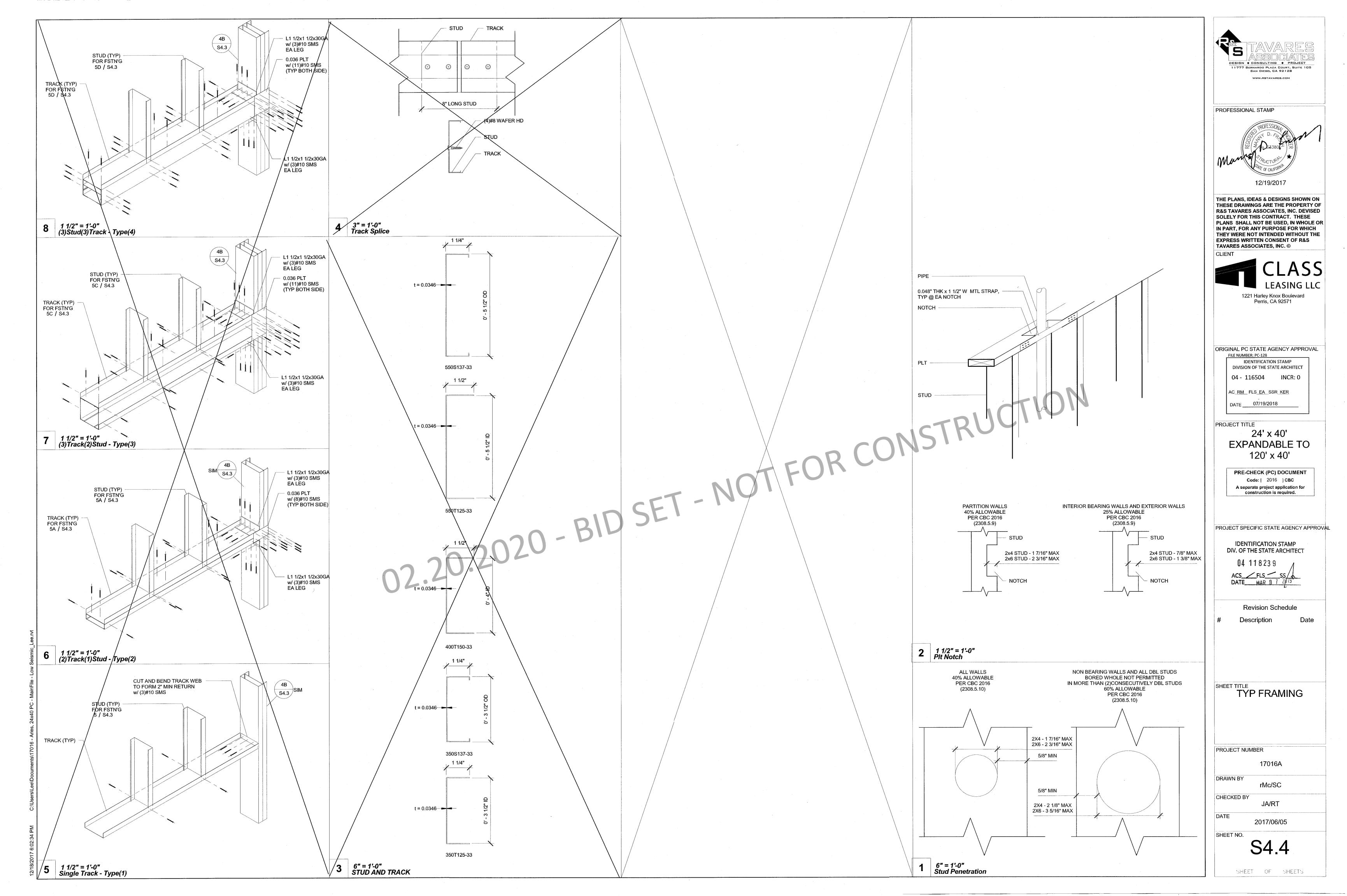
1/4" = 1'-0" Mono Roof Framing Plan











			2	2x4 Interio	r Wall Openi	ng Schedule				
COL HEIGHT	OPN'G SIZE		HDR			SILL		FULL I	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 Buil	ding Corne	er
	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.	-	-	-	-
	DF	1	#2	16" O.C.	-	-	_	-

Column Height

9'- 0"

COL	OPN'G		HDR			SILL		FULL H	HEIGHT KING	STUD
HEIGHT	SIZE									
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Туре
9FT	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	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'G	i FINISH)			
COL HEIGHT	·	Typical L	ocation		4.	8ft From Buil	ding Corne	er
	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

			2x6 Exter	rior Wall Op	ening Sched	ule (PLASTE	R FINISH)			
CO⊾ HEIGHT	OPN'G SIZE		HDR			SILL	-	FULL I	HEIGHT KING	STUD
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Type
9FT	3070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	ĄF	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	HF	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 Sched	dule (PLASTE	R FINISH)			
COL HEIGHT		Typical L	ocation		4.	8ft From Bน่	lding Corne	r
	Lumber	Number	Туре	Spacing	Lumber	Number	Type	Spacing
ß	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.

																					IST	RU	.					
□350	Interior W	all Openir	ng ScheduleStuds	= 350S137-33T	rack = 350T125-33	3			₾ 550	0 Exterior \	Wall Openin	ng Schedule (SHTH'G FIN	SIH)Studs =	= 550S137-33Track =	= 550T125-33			□ 550	Exterior V	Vall Opening S	chedule (PLAS	TER FINSIH)	Stud = 550)S137-33Track = 55	0T125-33			1
Col	Opn'g		HDR		SILL		L HEIGH	T KING STUD	Col Ht	Opn'g		HDR		SILL	FULL	HEIGHT	KING STUD	Col	Opn'g	H	IDR -			SILL			KING STUD	
Ht	Size	Туре	Reference	Туре	Reference	Туре			Ht	Size	Туре	Reference	Туре		Туре	Num.	Size	Ht	Size	Туре		T	уре		Туре	Num.	Size	-
	3070	1	5	N/A	N/A	Stud	(2)	350S137-33		3070	7	5	N/A	N/A	Stud	(2)	550S137-33		3070	1	5	ı	N/A	N/A	Stud	(2)	550S137-33	Nagyuri guna
	4070	1	5	N/A	N/A	Stud	(2)	350S137-33		4070	1	5 - F	N/A	N/A	Stud	(2)	550S137-33		4070	1	5	ı	N/A	N/A	Stud	(2)	550S137-33	
9'- 0'	6040	2	6	2	6	Stud	(3)	350S137-33	9'- 0'	6040	2	6	2	6	Stud	(3	550S137-33	9'- 0"	6040	2	6	2	2	6	Stud	(3	550S137-33	
	8040	3	8	3	8	Stud	(3)	350S137-33		8040	3	6	3	6	Stud	(3)	550S137-33		8040	3	- 6	3	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	
	4070	2	5	N/A	N/A	Stud	(2)	350S137-33		4070	2	5	N/A	N/A	Stud	(2)	550S137-33	401.00	4070	2	5		N/A	N/A	Stud	(2)	550S137-33	
10'- 0	6040	1	6	2	6	Stud	182	350S137-33	10'- 0	6040	2	6	2	6	Stud	(3)	550S137-33	10'- 0"	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	
												T 550 5.4		ning Schedule (SHTH'G	2 FINICH)						ПБ	50 Exterior M	/all Framing	Schedule (PLASTER F	НЭІМІ			

☐ 550 Exterior Wall Framing Schedule (SHTH'G FINISH) ☐ 350 Interior Wall Framing Schedule 4 From Corner Stud Typ Wall Framing 4 From Corner Stud Typ Wall Framing Column Height Number Type Spacing Lumber Number Type Spacing Lumber Number Spacing Number Spacing 16" o/c 550S137-33 Stud Stud 16" o/c 550S137-33 16" o/c 9'- 0" 350S137-33 Stud 16" o/c 550S137-33 550S137-33 __16" o/c 16" o/c 350S137-33 Stud

		□ 550 E	xterior Wall	Framing So	chedule (PLAS	TER FINISH)		
0.1		Typ Wall	Framing			4 From Corn	er Stud	
Column Height	Size	Number	Туре	Spacing	Lumber	Number	Туре	Spacing
9'- 0"	550S137-33	(1)	Stud	16" o/c	550S1 37-3 3	(1)	Stud	16" o/c
10'0"	550S137-33	(1)	Stud	16" o/c	550S137-33	(1)	Stud	16" o/c



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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

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=7-2819

Revision Schedule

Description

Date

SHEET TITLE
FRAMING
SCHEDULES

PROJECT NUMBER

17016A

DRAWN BY

rMc/SC

CHECKED BY

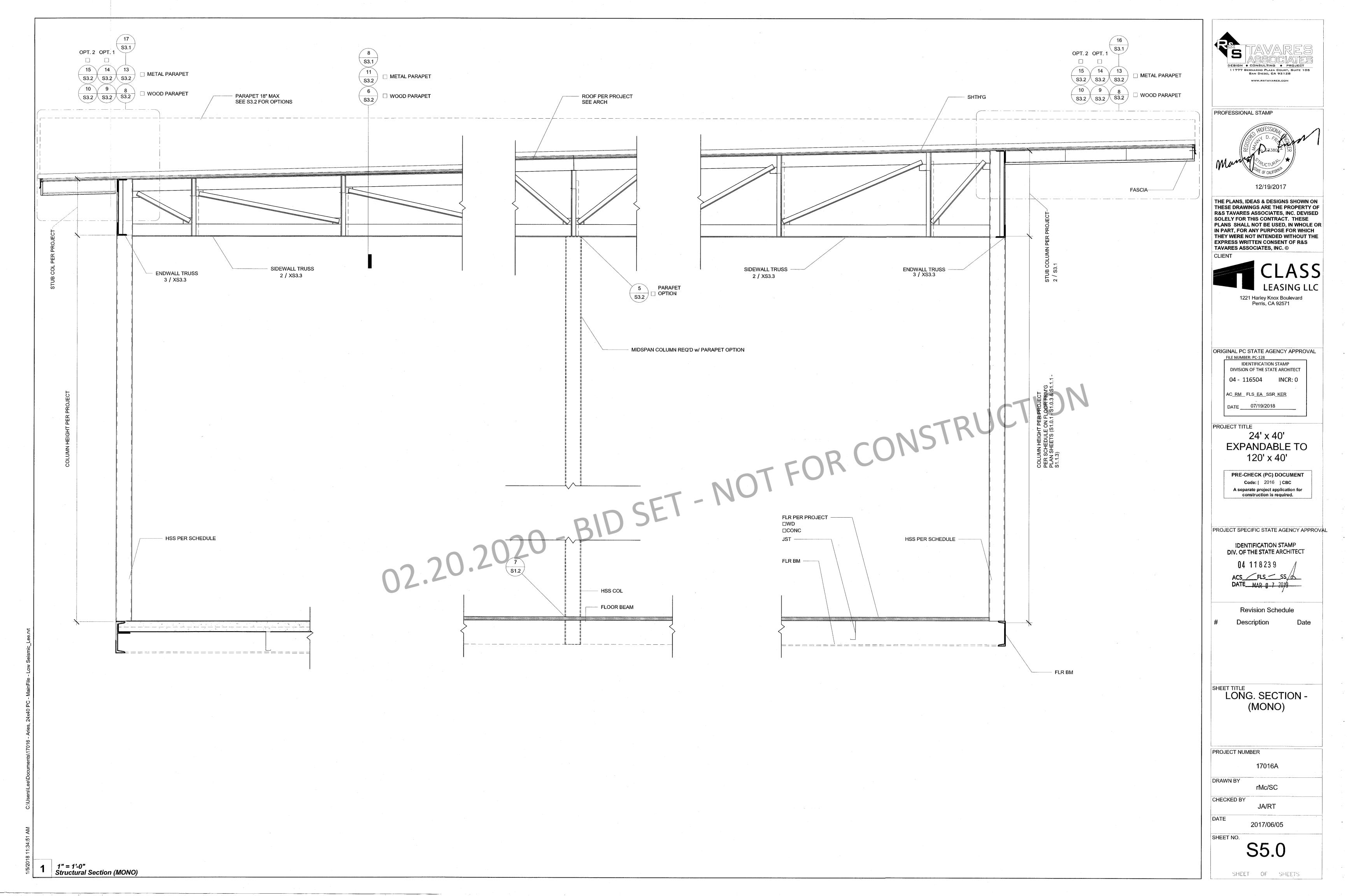
JA/RT

DATE
2017/06/05

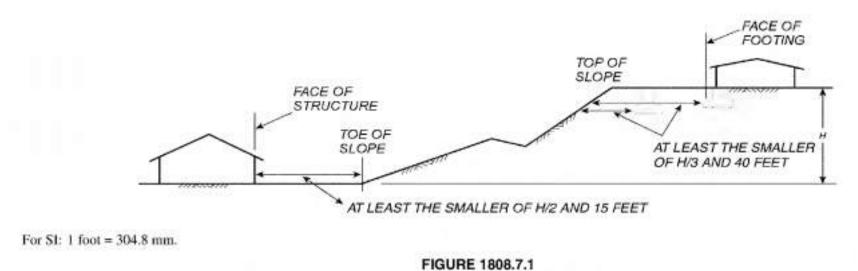
SHEET NO.

S4.5

SHEET OF SHEETS



NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40



FOUNDATION CLEARANCES FROM SLOPES

3 | 1/4" = 1'-0" | FOUNDATION SETBACKS

WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 AND UNDER.

REQUIREMENT.

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

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

KEY PLAN VENTING SCHEDULE <u>VENT "A1" (SIDEWALL):</u> 3'-6" x 6" = <u>1.75 S.F. VENTILATION</u>

SEE 2 NOT FOR CONS 48x40

(2) 16d NAILS SILL TO BASE CONNECTION FOR 50+15 SEE 7 / F1.10 **ENDWALL** SIDEWALL SEPERATION 9" O.C 12" O.C 11" O.C 12" O.C 12" O.C 12" O.C 12" O.C 12" O.C

TIE PLATE SCHEDULE

END WALL

SIDE WALL

*16D "COMMON" NAIL CAN BE USED IN LIEU OF 16D "BOX" NAIL FOR SILL PLATE FASTENING.

6 1/4" = 1'-0" NAILING SCHEDULE FOR 50+15

WOOD FOUI	NDATION PLAT	E SCHEDULE						
50 + 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
ТОР	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

8 1/4" = 1'-0"
WOOD FOUNDATION PLATE SCHEDULE FOR 50+15

1/4" = 1'-0" TIE PLATE SCHEDULE FOR 50+15

24x40

36x40

48x40

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

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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<u>RM</u> FLS<u>EA</u>SSR<u>KER</u>

DATE _____07/19/2018

PROJECT TITLE

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

PRE-CHECK (PC) DOCUMENT A separate project application for

PROJECT SPECIFIC STATE AGENCY APPROVAL

Revision Schedule

Description

WOOD **FOUNDATION NOTES SCHED** FOR BLDG W/ 50+15

PROJECT NUMBER

17016A

rMc/SC

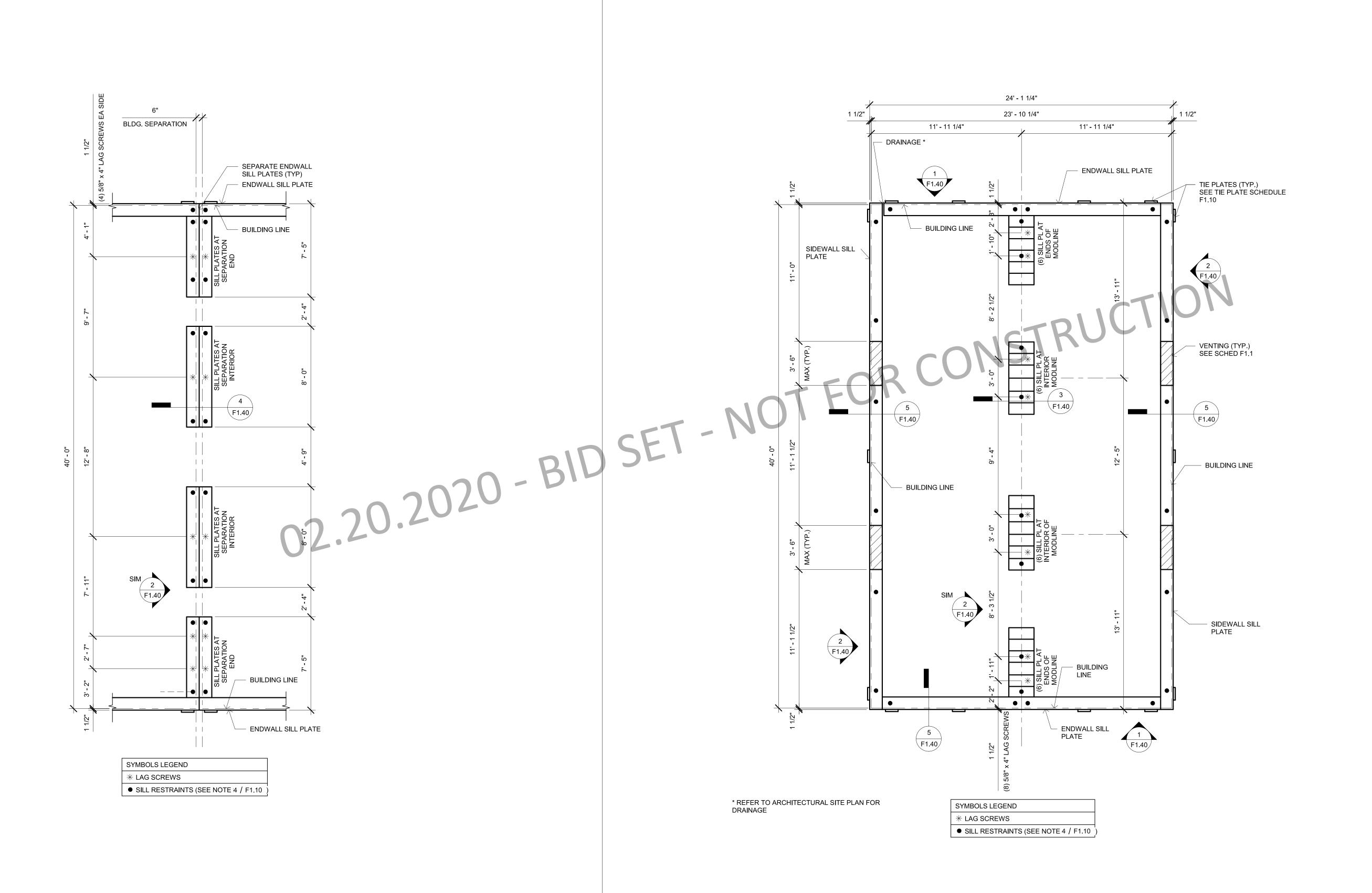
CHECKED BY

2017/06/05

F1.10

SHEET OF SHEETS

1/16" = 1'-0" 50+15 VENTING LAYOUT



DESIGN & CONSULTING & PROJECT

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

WWW.RSTAVARES.COM

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ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: PC-128

IDENTIFICATION STAMP

PROJECT TITLE 24' x 40'

120' x 40'

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

EXPANDABLE TO

PROJECT SPECIFIC STATE AGENCY APPROVAL

Revision Schedule

Description

WOOD
FOUNDATION
PLAN 24x40 BLDG
W/ 50+15

PROJECT NUMBER
17016A

MAN DV

rMc/SC

CHECKED BY

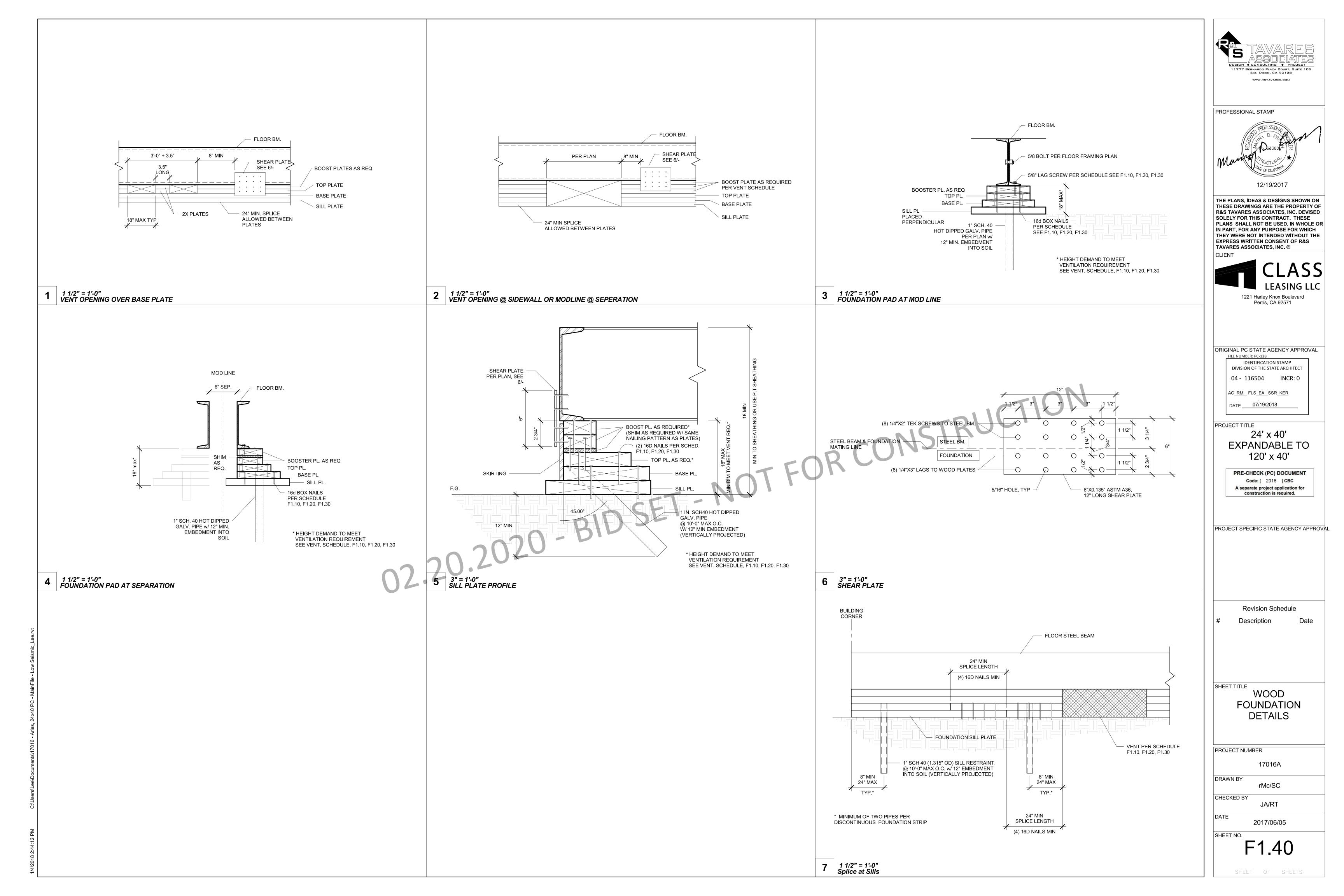
JA/RT

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

*CALIFORNIA ADMINISTRATIVE CODE, PART1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

GENERAL NOTES

ELEVATORS AND ESCALATORS

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)

DESIGN LOADS

LIVE LOAD: 100 PSF (4.8 kPa) 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

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) SOIL ALLOWABLE BEARING: 1,000 PSF (4.8 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 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"

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

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

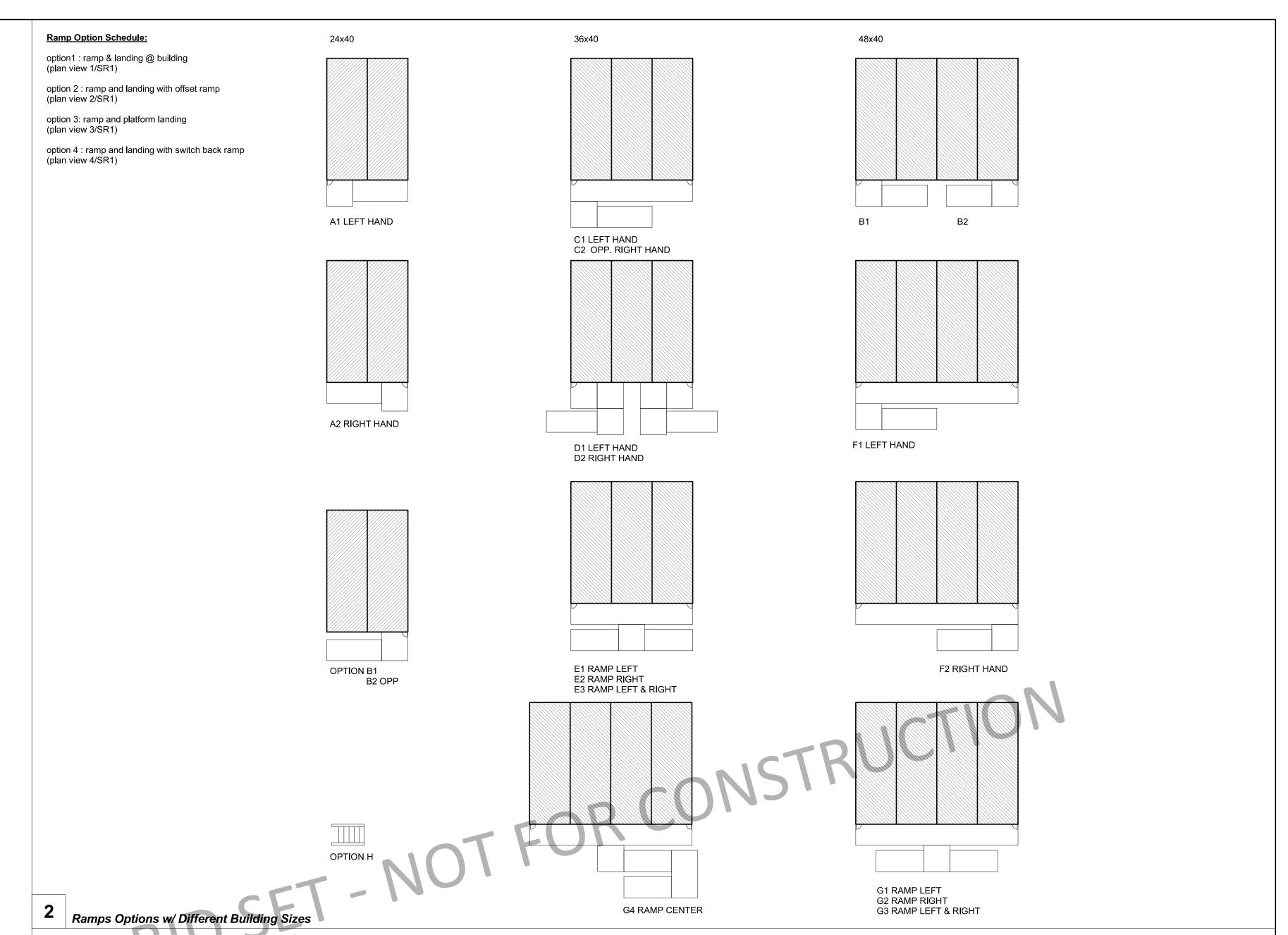
5) THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION

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

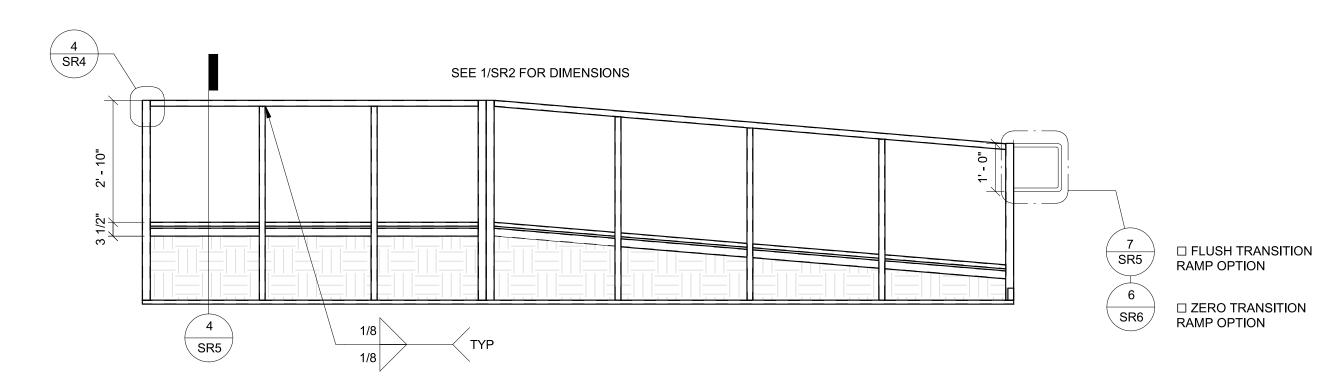
7) CHANGES IN DIRECTION OF TRAVEL SHALL HAVE A LANDING 60" WIDE BY 72" LONG (1524MM x 1829MM) MINIMUM, WITH WITH THE LENGTH BEING IN THE DIRCTION OF DOWNWARD TRAVEL AND CHANGES IN DIRECTION

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



1' - 0" 1' - 0" HANDRAIL -LEVEL LEVEL SR1 3' - 6" 1:12 MAX SLOPE DN LEVEL LANDING SEE 1/SR1 FOR DIMENSIONS DOOR (REF) RAMP TRANSITION



Revision Schedule Description

DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT. SUITE

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Boulevard

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

RAMPS PC

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC

A separate project application for construction is required.

PROJECT SPECIFIC STATE AGENCY

AC<u>RM</u> FLS<u>EA</u>SSR<u>KER</u>

DATE_ 07/19/2018

PROJECT TITLE

FILE NUMBER: PC-128

PROFESSIONAL STAMP

Module Plan and Notes

PROJECT NUMBER 17016A DRAWN BY

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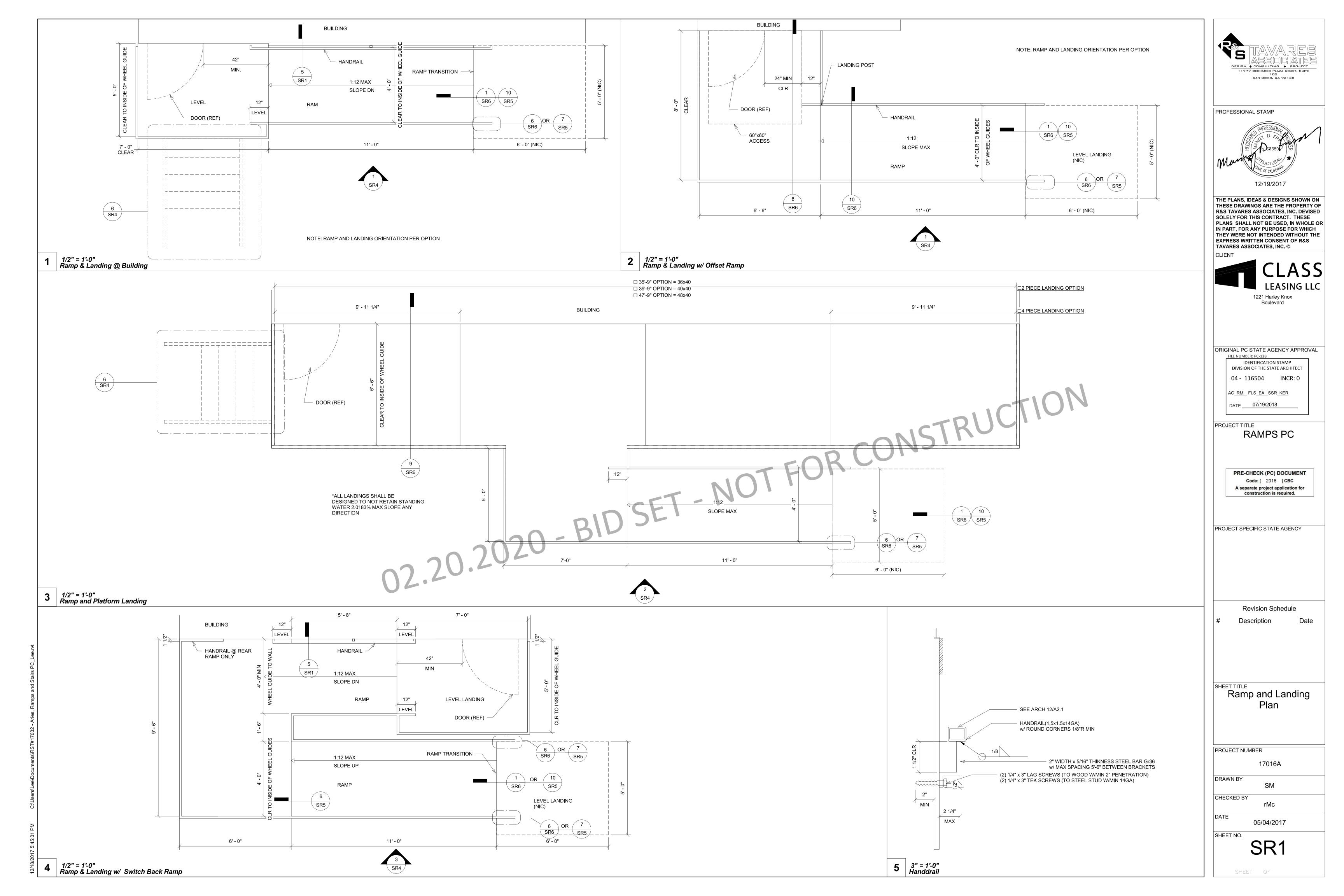
SHEET OF

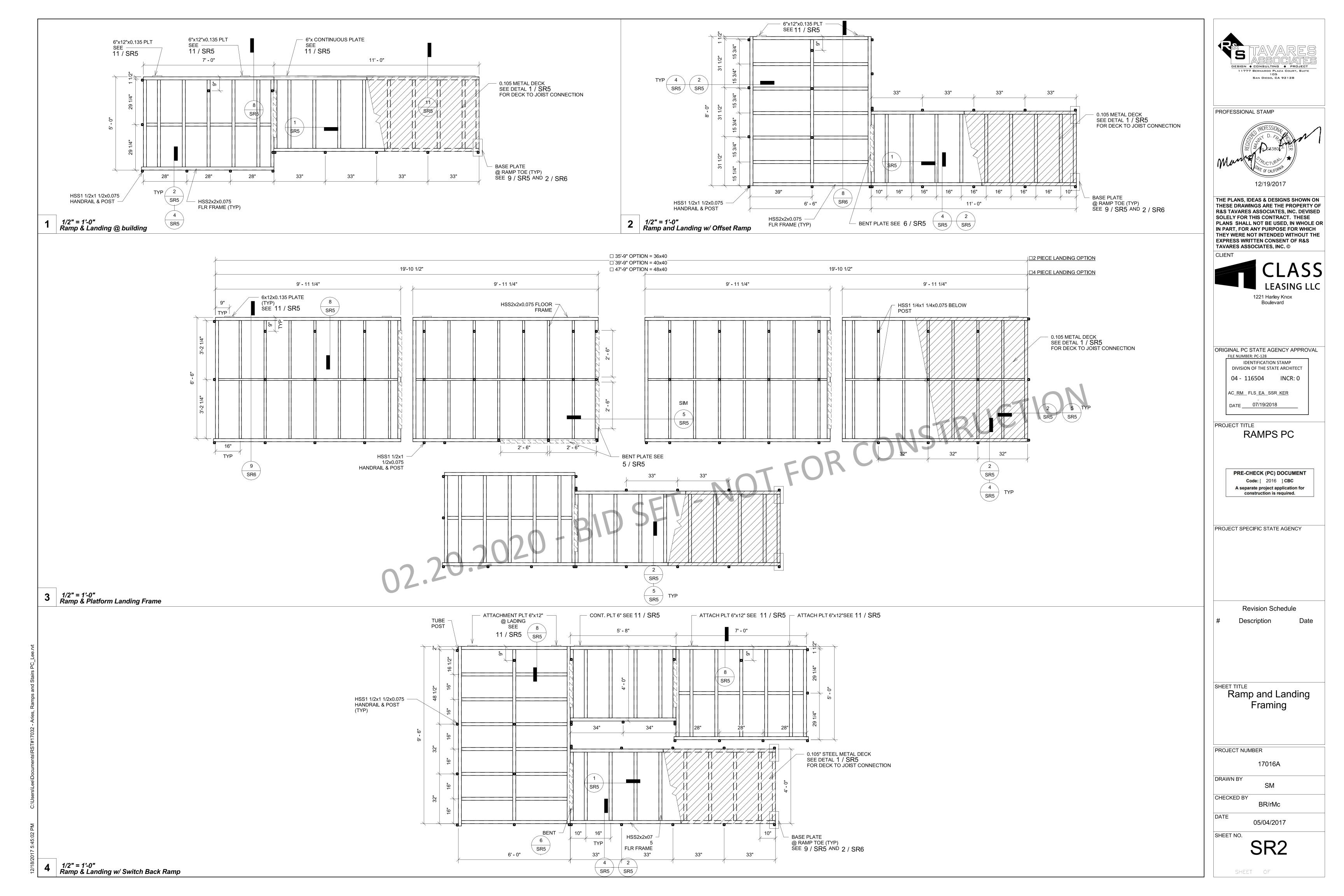
DATE 05/04/2017

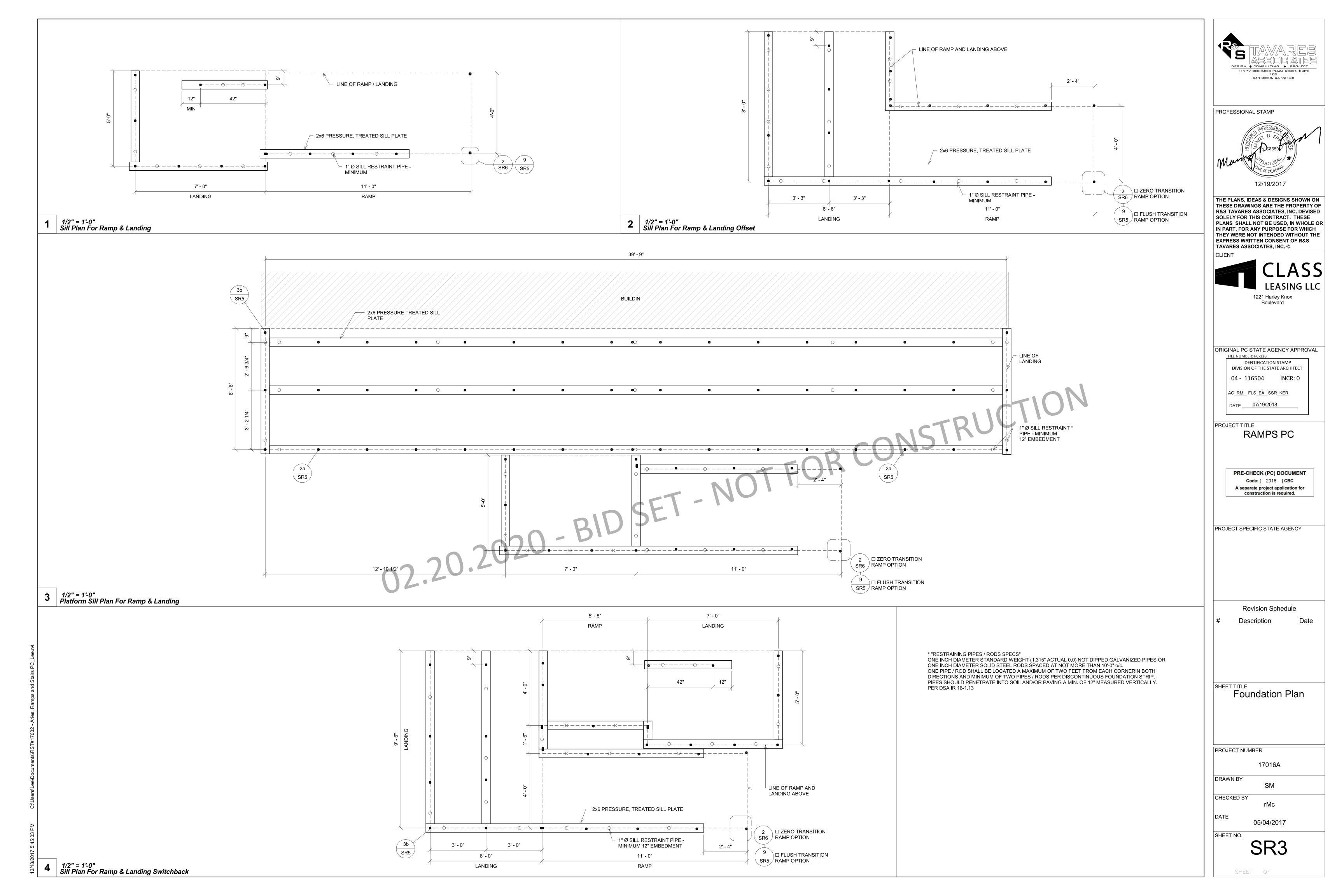
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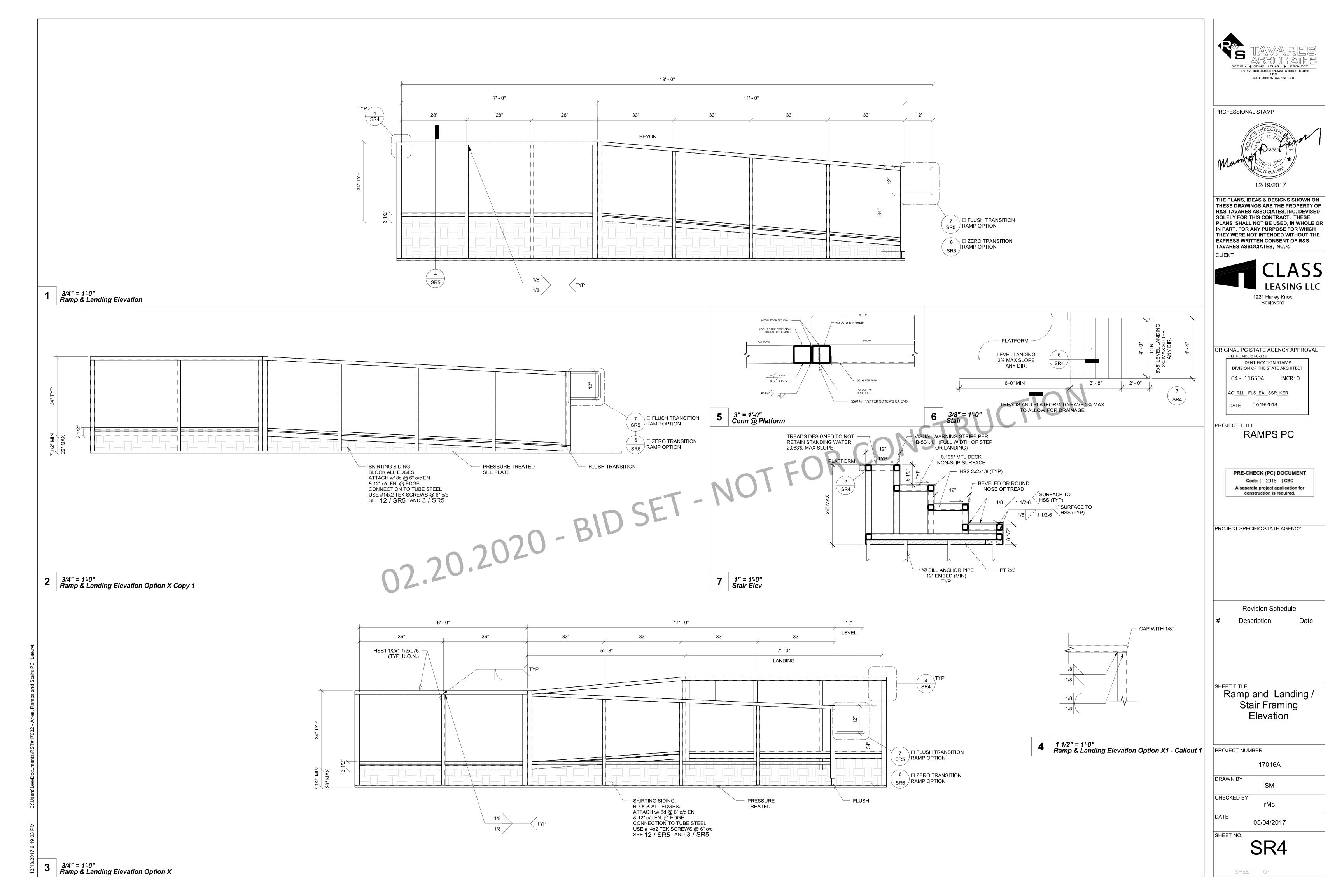
Uptions w/ Difte.

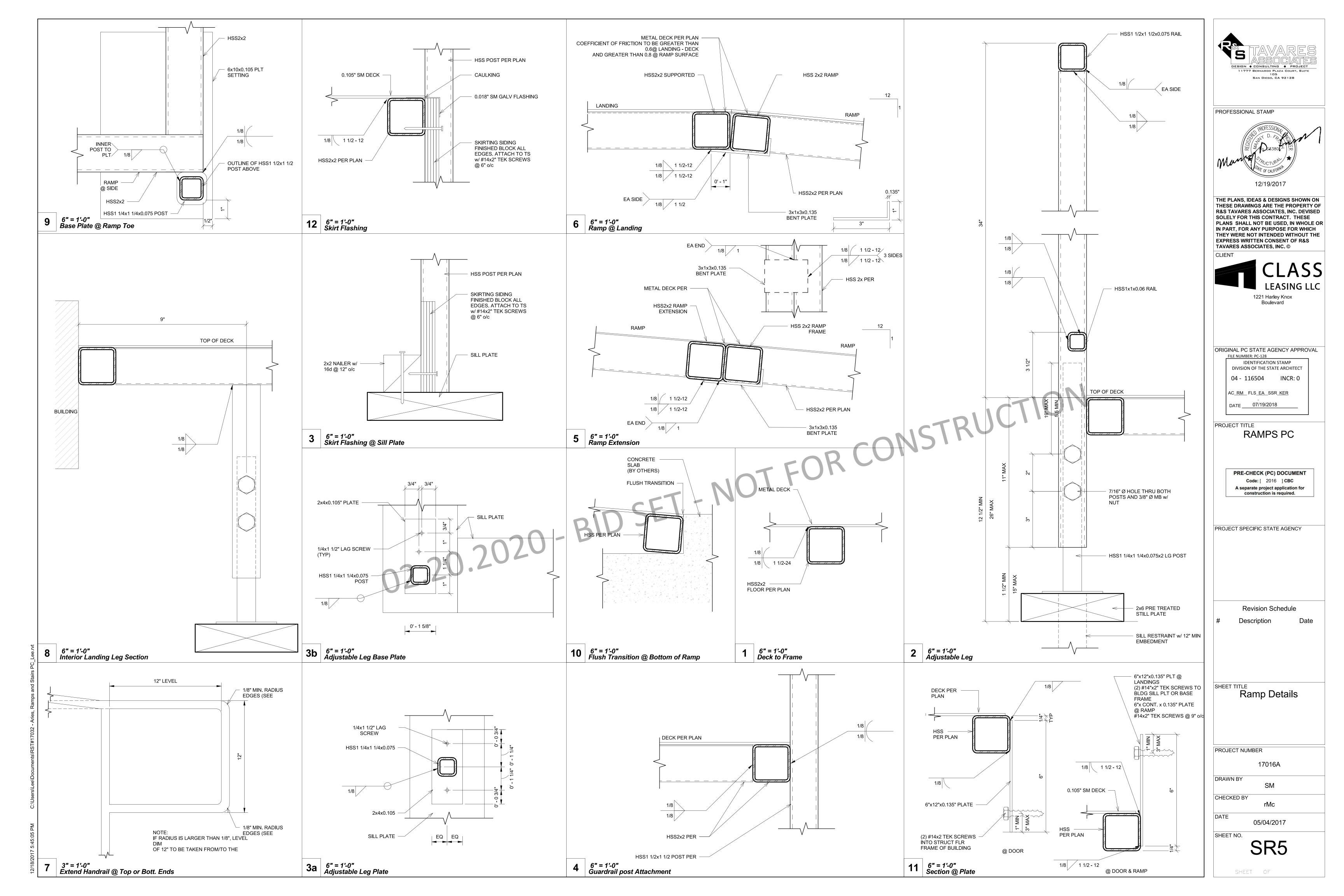
3 | 1/2" = 1'-0" Standard Ramp

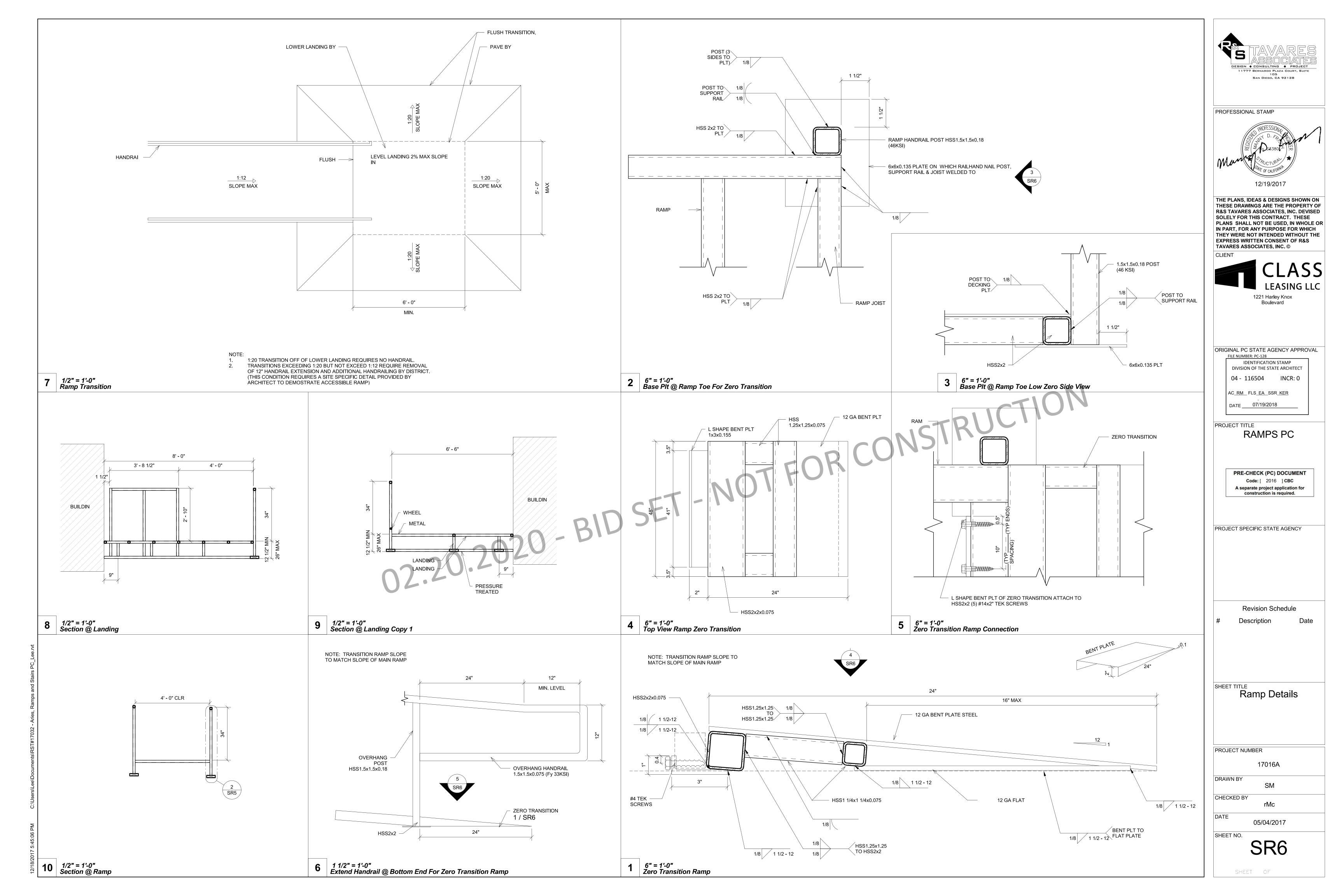


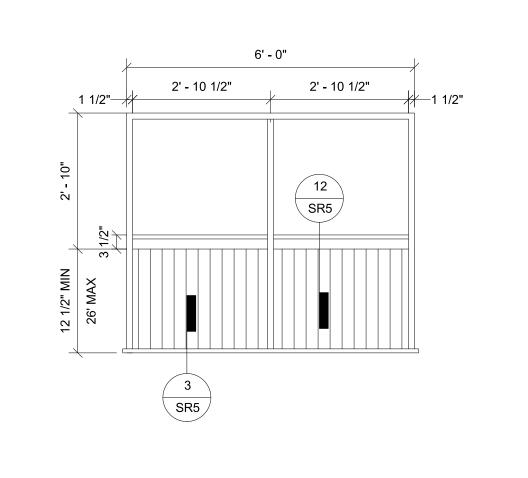


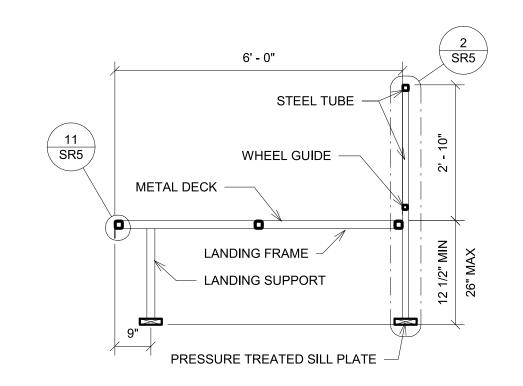


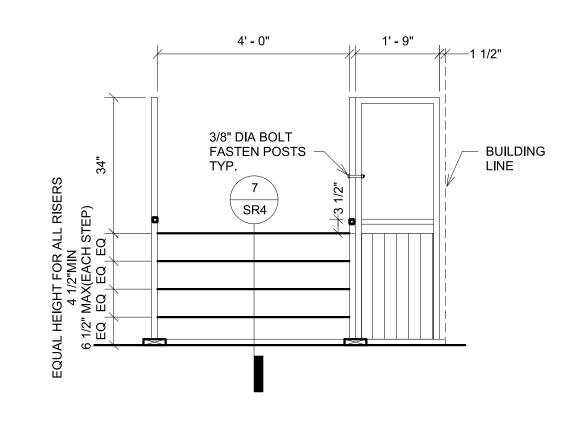




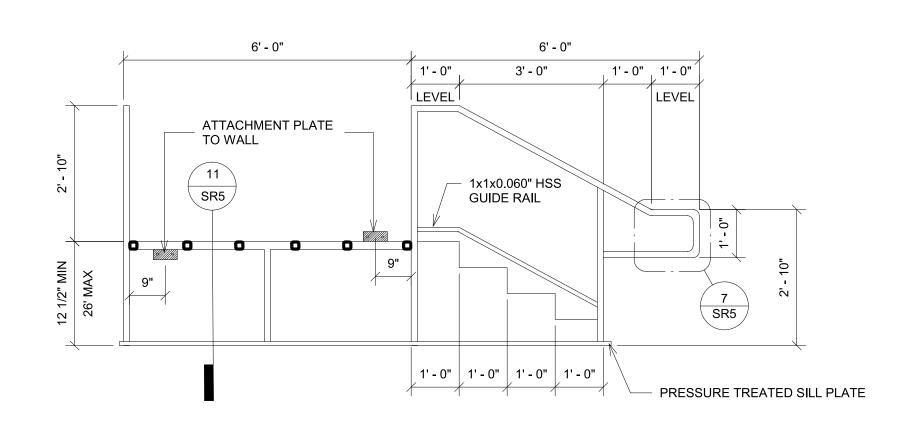




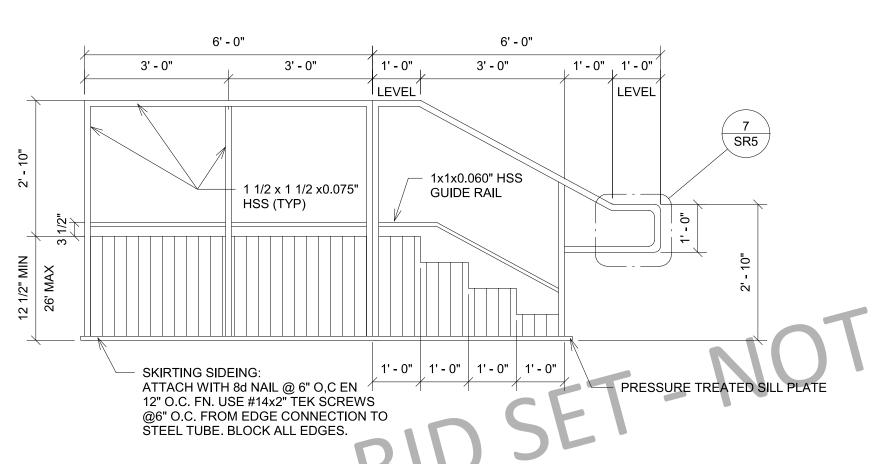




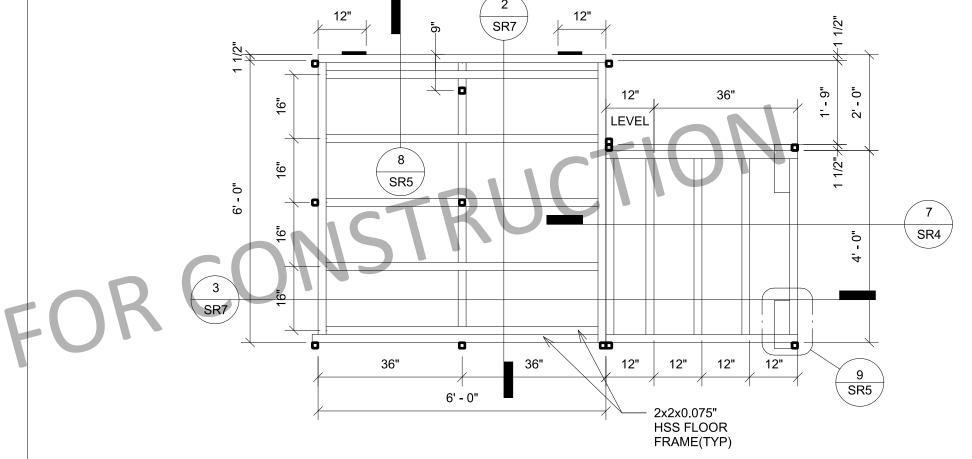
1 1/2" = 1'-0" LANDING ELEVATION VIEW



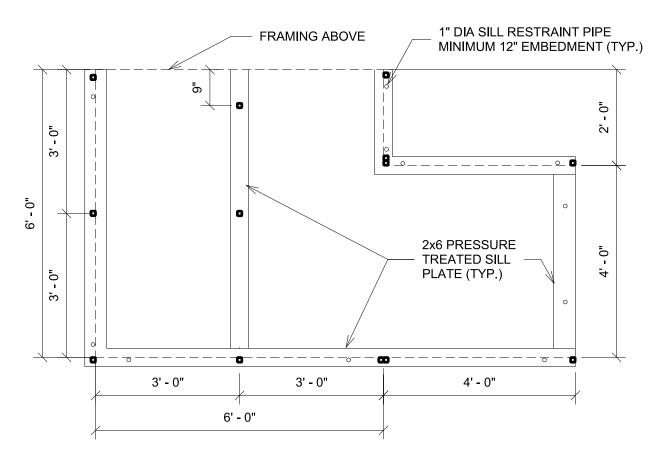
2 1/2" = 1'-0" LANDING SECTION



6 | 1/2" = 1'-0" STEPS ELEVATION



3 | 1/2" = 1'-0" STEP AND LANDING SECTION



1/2" = 1'-0" SILL PLAN

1/2" = 1'-0" STEPS AND LANDING SECTION 5 1/2" = 1'-0" STEPS/LANDING FRAMING PLAN

105 SAN DIEGO, CA 92128

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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

SHEET TITLE

Stair Conn

PROJECT NUMBER 17016A

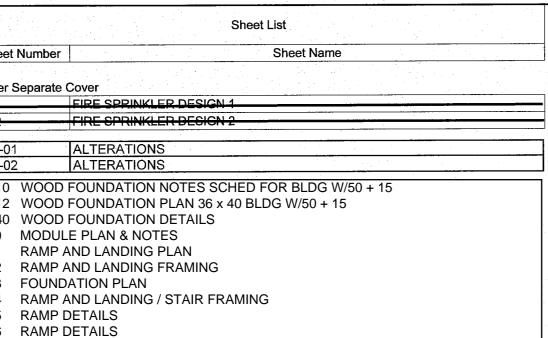
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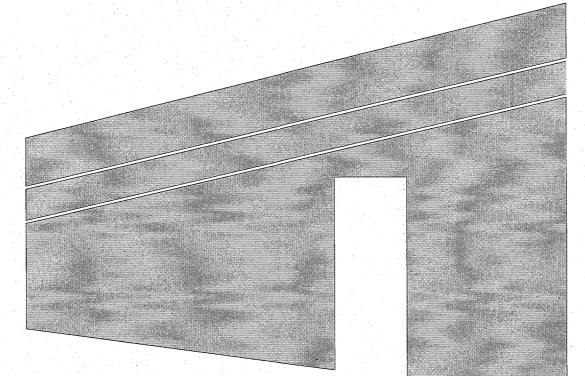
DATE 05/04/2017

SHEET OF

SR7

Sheet Number	Sheet Name
2.3 2.1	120"x40" T24 CZ 16" (WALL AC) 120'x40' T24 CZ 16 (WALL AC)
2.2	120'x40' T24 CZ 16 (WALL AC) 120'x40' T24 CZ 16 (WALL AC)
over 0.0	COVER SHEET
0.0.1 0.1	PROJECT OPTIONS SCHEDULE TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,
0.2	SIGNAGE AND SYMBOLS
0.4	DSA-103 T&I CONCRETE FLOORS DSA-103 T&I PLYWOOD FLOORS
0.5	CALGREEN SPEC'S
rchitectural	
1.0 1.1	36x40 FLOOR PLAN
1.2 2.1	48x40 FLOOR PLAN ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)
2.2	ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH)
2.3 2.4	ARCHITECTURAL DETAILS (MTL FRAMING PLASTER FINISH)
2.5	ARCHITECTURAL DETAILS (1 HR WOOD FRAMING SHTG FINISH) ARCHITECTURAL DETAILS (1-HR WOOD FRAMING PLASTER
2.6	FINISH)
2.7 2.8	ARCHITECTURAL DETAILS (1-HR MTL FRAMING SHTC FINISH) ARCHITECTURAL DETAILS (1-HR MTL FRAMING PLACER FINISH)
2.9	ARCHITECTURAL DETAILS (FLOOR) ADDITIONAL FIRE PATING DETAILS AND NOTES
3.1	SINGLE OCC. BATHROOM
3.2 3.2.1	RCP CEILING NOTES
.3.3	CEILING DETAILS (T-GRID) CEILING DETAILS (GYP BOARD)
4.0.1	ROOF PLAN MONO SLOPE (STANDING SEAM)
(4.0.2 (4.1	ROOF PLAN DUAL SLOPE (STANDING SEAM) ROOF DETAILS (STANDING SEAM)
4.2.1	ROOF PLAN MONO SLOPE (EPDM)
(4.2.2 (4.3	ROOF PLAN DUAL SLOPE (EPDM) ROOF DETAILS (EPDM)
(4.4.1	ROOF PLAN W/ PARAPET MONO SLOPE (EPDM) ARCHITECTURAL DETAILS (PARAPET)
\5.0	SIDEWALL ELEVATION
\5.1 \5.2	INTERIOR ELEVATIONS
\6.0 \6.0.1	SECTION - STANDING SEAM (MONO) SECTION - STANDING SEAM (DUAL)
.6.1	SECTION EPDM (DUAL)
\6.2 \6.3	SECTION SECTION EPDM (MONO)
.7.0 .7.1	ADDITIONAL OPTION DETAILS ADDITIONAL OPTION DETAILS
7.2	ADDITIONAL OPTION DETAILS
/IEP -1.0	ELECTRICAL PLAN 24x40
1.1	ELECTRICAL SCHEDULES 24x40 ELECTRICAL PLAN 36x40
1.3	ELECTRICAL SCHEDULE 36x40
1.4 1.5	ELECTRICAL PLAN 48x40 ELECTRICAL SCHEDULE 48x40
//0.1 //2.1	MISCELLANEOUS NOTES & DETAILS 120'x40' T24 CZ 16 (WALL AC)
Л 2.2	120'x40' T24 CZ 16 (WALL AC)
Л2.3 Л2.4	120'x40' T24 CZ 16 (WALL AC) 120'x40' T24 CZ 16 (WALL AC)
A5.1 A5.2	MECHANICAL CEILING PLAN 24x40 MECHANICAL ROOF MOUNT 24x40
<i>I</i> 16.1	MECHANICAL CEILING PLAN 36x40
AG.2 A7.1	MECHANICAL ROOF MOUNT 36x40 MECHANICAL CEILING PLAN 48x40
A7.2	MECHANICAL ROOF MOUNT 48×49 TYPICAL PLUMBING DETAILS
oundation	
1.10	WOOD FOUNDATION NOTES SCHED FOR BLDG W/50+15- WOOD FOUNDATION PLAN 24x40 BLDC W/50+15
1.12	WOOD FOUNDATION 36x40 BLDG W/ 50+15-
-1.13 -1.14	WOOD FOUNDATION PLAN 48x40 BLDC W/ 50:15 MODLINE "B" W/ EXTERIOR WALLS BACK TO BACK 100 PSF
1.20 1.21	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF WOOD FOUNDATION PLAN 24x40 BLDG W/ 100 PSF
1,22	WOOD FOUDATION PLAN 36x49 BLDG W/ 100 PSF
-1.23	WOOD FOUNDATION PLAN 48x40 BLDC W/ 100 PSF MODLINE "B" W/ EXTERIOR WALLS BACK TO BACK 100 PSF
1.30 1.31	WOOD FOUNDATION NOTES SCHED FOR BLDC W/ 150 PSF WOOD FOUNDATION PLAN 24X40 BLDC W/ 150 PSF
1.32	WOOD FOUNDATION PLAN 36x40 BLDC W/ 150 PCF
1.33	WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF MODLINE "B" W/ EXTERIOR WALL BACK TO BACK 150 PSF
1.40	WOOD FOUNDATION DETAILS— CONCRETE FOUNDATION PLAN
2.10	
2.20	CONCRETE FOUNDATION DETAILS
	CONCRETE FOUNDATION DETAILS CONCRETE FOUNDATION DETAILS
2.20 -2.22 -2.23 Structural	CONCRETE FOUNDATION DETAILS CONCRETE FOUNDATION DETAILS
2.20 2.22 2.23 Structural 50.1 51.0.1	STRUCTURAL GEN NOTES WD SHTH'G FLR FRM'G PLAN (50+15 PSF)
2.20 2.22 2.23 Structural 50.1	STRUCTURAL GEN NOTES
2.20 2.22 2.23 Structural 50.1 51.0.1 54.0.2 54.0.3 54.1.1	STRUCTURAL GEN NOTES WD SHTH'G FLR FRM'G PLAN (50+15 PSF) WD SHTH'G FLR FRM'G PLAN (400 PSF) WD SHTH'G FLR FRM'G PLAN (450 PSF) ONG FLR FRM'G PLAN (50+15 PSF)
2.20 2.22 2.23 Structural 50.1 51.0.1 54.0.2 54.0.3 54.4.2 54.4.2	STRUCTURAL GEN NOTES WD SHTH'G FLR FRM'G PLAN (50+15 PSF) WD SHTH'G FLR FRM'G PLAN (180 PSF) WD SHTH'G FLR FRM'G PLAN (150 PSF) OONG FLR FRM'G PLAN (190 PSF) CONG FLR FRM'G PLAN (190 PSF)
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PARALLEL
PARTICLE BOARD
PRECAST CONCRETE
POUNDS PER CUBIC FOOT

PERFORAL (D)
PERIMETER
PREFABRICATE (D)
POUNDS PER SQUARE FOOT
PLATE
PLUMBING
POUNDS PER LINEAR FOOT
DABALLAM

PRESTRESSED CONCRETE
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH

POINT PRESSURE TREATED

PAINTED POLYVINYL CHLORIDE

RADIUS, RISER RADIUS

REFORCE (D) (ING)
REMOVE
REQUIRED
REQUIREMENTS

RETAINING REVISION, REVISED ROOFING

ROOM ROUGH OPENING

RUBBER TILE

REVERSE SIDE RIVET

SCHEDULE SUPERIMPOSED DEAD LOAD

STRUCTURAL ENGINEER SELF-DRILL, SELF-TAP'G SCREW

SECTION SQUARE FOOT, SQUARE FEET

SELF DRILL SCREW

SHORE, SHORING
SHEET
SHEATHING
SQUARE INCH
SIMILAR
SLOPE
SEALANT
SHEET METAL SCREW
SLAB ON GRADE
SPACE

SPECIFICATION (S)

SQUARE STAINLESS STEEL

SYMETRICAL, SYMETRY SYSTEM

TOP, TORSION, TREAD

TONGUE AND GROOVE

TOP CHORD TESION, TENSILE TEMPORARY, TEMPERATURE

UNDEREWRITERS LABORATOR

UNLESS NOTED OTHERWISE

SHEAR FORCE, VELOCITY

VAPOR BARRIER VERIFY

VERTICAL VERTICAL GRAIN VERIFY IN FIELD

VENEER VENT THROUGH ROOF

WEST, WIDTH, WIDE

WIDE FLANGE

WOOD WROUGHT IRON

WATER STOP

WIRE MESH WATERPROFFING WATER REPELLENT

WEIGHT
WALL TO WALL (W/W)
WELDED WIRE FABRIC
WELDED WIRE MESH

TOP AND BOTTOM

THREAD (ED) THICK (NESS)

TEMPERED TOP OF TOTAL LOAD

TREAD TUBE STEEL

UNDERCUT

STANDARD STEEL STORAGE STRUCTURE STRUCTURAL

SOUTH SOLID CORE

ROOF DRAIN

PIECES PERFORATE (D)

P.L. PARALLAM
PLWD PLYWOOD
PMT PAVEMENT
PNL PANEL
POSTEN POST TENSION (D)

PRETENSIONED POLYETHYLENE

LOW SEISMIC **DESIGN CRITERIA**

PC NOT USABLE

FLUSH JOINT FLOOR FLUORESCENT

FLEXIBLE FOUNDATION FACE OF FIREPROOF (ED) FIREPROOFING FRAME (D)(ING)

FRAME (D)(ING)
FIRE RESISTANT COATING
FORGED
FRAMING
FOOT, FEET
FOOTING
FURRED, FURRING
FIELD VERIFY

GALVANIZED
GENERAL CONTRACTOR

GALVANIZED IRON GASKET GLASS, GLAZING

GLULAM GALVANIZED PIPE GALLONS PER MINUTE GYPSUM PLASTER

GRAVEL, GRANULAR GRADE, GRADING

GRANITE GALVANIZED SHEET STEE

GYPSUM WALLBOARD

HARDBOARD HOLLOW CORE HEAVY DUTY

HARDENER HEADER

HARDWARE HARDWOOD

HARDWOOD

INSIDE DIAMETER

INTERMEDIATE

JOIST JOINT

KNOCKOUT KIPS PER SQUARE INCH

LAMINATE (D) POUND, LAG BOLT

LINEAR FOOT LEFT HAND

LIGHT CONTROL
DEVELOPMENT LENGHT

LIVE LOAD LONG LEG HORIZONTAL

LINTEL LEVEL (ING) LIGHT WEIGHT LIGHT WEIGHT CONCRETE

METER (S) MOMENT

MOMENT CONNECTION MECHANICAL MEDIUM

MECHANICAL, ELECTRICAL, & PLUMBING METAL FLOOR DECKING MANUFACTURE (R) (ED)

MATERIAL MASONRY MAXIMUM

MACHINE BOLT MEMBER

MID: MIDDLE

MEMBRANE

NORTH, NEW

NATURAL NAILABLE NONMETALLIC

NOT TO SCALE

ON CENTER OUTSIDE DIAMETER

OPPOSITE HAND OPENING OPPOSITE

OVERHEAD
OVALHEAD MACHINE SCREW
OVALHEAD WOOD SCREW
OPEN-WEB JOINT (S)

OVERALL

MINÍMUM, MINUTE

MASONRY OPENING MODEL MODULAR MOVABLE

MISCELLANEOUS

INCHE (ES) INCLUDE (D), INCLUDING

INSULATE, INSULATION

HIGH EARLY STREM

HOOK
HOLLOW METAL
HORIZONTAL
HIGH POINT
HOUR
HEADED STUD ANCHOR

GTH CEMENT

IN WUI AREAS

ANCHOR BOLT

AFF ABOVE FINISHE
AGG AGGREGATE
ALT ALTERNATE
ALUM ALUMINUM
ANCH ANCHOR (AGE)
ANOD ANODIZED
APPRX APPROXIMATE
ARCH ARCHITECT (UF
ASPH ASPHALT
AUTO AUTOMATIC

ADDENDUM ADHESIVE ADJACENT, ADJUSTABLE

CAMBER CENTER TO CENTER

CUBIC FOOT

CONTROL JOINT

CAULK, ('G, ING)

CLOSURE CENTIMETER

CORRUDATED METAL PIPE CONCRETE MASONRY UNIT

CLS CLUSINE
CMP CORRUDATED METAL PIPE
CMU CONCRETE MASONRY UN
CNTR CENTER
COL COLUMN
COG CENTER OF GRAVITY
COMB COMBINATION
COMP COMPRESS (ED)(ION)(IBLE)

CONNECT (ION)

CONTRACTOR

DEEP, DEPTH

DEFLECTION

DWL

CONSTRUCT (ION) (ED

COMPLETE PENETRATION

COUNTERSUNK SCREW

DEMOLISH, DEMOLITION

MODULUS OF ELASTICITY

NCLOSURE, ENCLOSED

EQUAL, EQUALIBRIUM

EXPANSION BOLT

EXTRA STRONG

EXCAVATE (D) (ION)

EXPANDED METAL PLATE

EXPANSION BOLT

EXPANSION JOINT

PC#

04-116504

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

DESIGN CODES

RTIAL LIST OF APPLICABLE CODES AS OF February 28, 2017

Administrative Code (CAC), Part 1, Title 24 C.C.R. 6 California Building Code (CBC), Part 2, Title 24 C.C.R. (2015 International Building Code with 2016 California Amendments 6 California Electrical Code (CEC), Part 3. Title 24 C.C.R. (2014 National Electrical Code with 2016 California Amendments 6 California Mechanical Code (CMC), Part 4, Tiltle 24 C.C.R. (2015 Uniform Mechanical Code with 2016 California Amendments) 6 California Plumbing Code (CPC), Part 5, Title 24 C.C.R. (2015 Uniform Plumbing Code with 2016 California Amendments) 6 California Energy Code (CEC), Part 6, Title 24 C.C.R 6 California Fire Code, Part 9, Title 24 C.C.R. (2015 International Fire Code with 2016 California Amendments 6 California Green Building Standards Code, Part 11, Title 24 C.C.R.

19 C.C.R., Public Safety, State Fire Marshal Regulations. 3 ASME A17.1 (W/ CSA B44-13) Safety Code for Elevators and Escalators

6 California Referenced Standards, Part 12, Title 24 C.C.R

RTIAL LIST OF APPLICABLE STANDARDS

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
UL 521	Heat Detectors for Fire Protective Signaling Systems	1999 Edition

erence Code Section for NFPA Standards - 2016 CBC (SFM) Chapter 35. See Chapter for State of California amendments to NFPA Standards.

alifornia Administrative Code, Part 1, Chapter 10, Administrative Regulations for the lifornia Energy Commission (CEC).

COUSTICAL CONTROL (EXTERIOR) REQUIREMENTS

the 2016 CCR, Title 24, Part 11 (CALGREEN CODE) Section 5.507.4. This pre-check building ot allowed to be placed: thin the 65 CNEL noise contour of a airport; thin the 65 CNEL or Ldn noise contour of a freeway, expressway, railroad, or industrial source

in a location exposed to a noise level of 65 dB Leq-1Hr, during any hour of operation.

ADOPTED YEAR 2016 4 13 A 72 2016

AUTOMATIC SPRINKLER SYSTEMS NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS

TE: VISUAL DEVICES PER UL STANDARD 1971

PC HAS A "PRE-DESIGNED" FIRE SPRINKLER SYSTEM INSTALLED. BELOW FOR SITE REQUIREMENTS BY OWNER

IT IS THE OWNERS RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GPM) AND PRESSURE (PSI)CAN BE ATTAINED AT THE BASE OF THE RISER AT THE PROPOSED SITE FOR EACH PROPOSED BUILDING.

THIS PC REQUIRES MINIMUM GPM: 250 MINIMUM PSI: 35

FAILURE TO ATTAIN THE MIN GPM/PSI MAY NECESSITATE THE INSTALLATION OF ONE OR MORE OF THE FOLLOWING ITEMS/EQUIPMENTS.

A. WATER TANK

BACK UP FIRE SUPPLY **B. ADDITIONAL UNDERGROUND FIRE LINE TAPS** C. ALL OR ANY COMBINATION OF THE ABOVE OR ANY OTHERS AS REQUIRED TO ENSURE PROPER OPERATION OF THE AFSS

THE FOLLOWING MUST BE SUPPLIED TO DSA AT THE TIME OF SUBMITTAL WITH THE SITE PLAN FOR EACH PROPOSED BUILDING WITH AN AFSS.

MINIMUM GPM/PSI REQUIRED WATER FLOW DATA (SEE DSA AFFS GUIDELINES) SITE PLAN SHOWING THE LOCATION OF THE "FLOW" AND "TEST" HYDRANTS (FULLY DIMENSIONED) ALL (NEW AND EXISTING) UNDERGROUND FIRE LINES/PIPING -LENGTH

AND SIZE SHOWING LOCATION AND METHOD OF UNDERGROUND PIPING RESTRAINTS TO TEST HYDRANT LOCATION OF ALL (NEW AND EXISTING);

FIRE HYDRANTS POST INDICATORS FIRE DEPARTMENT CONNECTIONS PRESSURE REDUCERS BACK-FLOW PREVENTION/DETECTOR CHECK VALVES OTHER FIRE RELATED ITEM/EQUIPMENTS APPLICABLE

HYDRAULIC CALCULATIONS FOR THE UNDERGROUND PIPING WITH THE AVAILABLE GPM/PSI AT THE BASE OF EACH AFSS RISER (MUST MEET OR EXCEED MIN REQ'T) ANY CHANGES TO THE CONFIGURATION (WALLS, CEILINGS,

FASTENER FURNISHED BY OTHERS FLOOR DRAIN FLATHEAD MACHINE SCREW FIRE HOSE STATION CONSTRUCTION TYPE) OR OCCUPANCY OF THE PC WILL FLATHEAD WOOD SCREW NECESSITATE ADDITIONAL/REVISED HYDRAULIC CALCULATIONS

HUENEME HS

(1) 36x40 W/ TOILET

OXNARD UNION HSD

SN: P-19-2143 A/B/C

CONSTRUCTION OF CLASSROOM BUILDING (RELOCATABLE)

SCOPE OF WORK

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

100 PSF □ 150 PSF FLOOR DEAD LOAD: XWOOD 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: This PC has not been designed to accommodate flood loads. If located in a 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. **BUILDING AREA** NO OVERHANG WITH OVERHANG (5' @ EA. END) ALLOWABLE AREA ☐ 24x40 960 sf ☐ 24x40 1200 sf

36x40 1800 sf =9,500 sf ☐ 36x40 1440 sf ACTUAL AREA ☐ 48x40 1920 sf ☐ 48x40 2400 sf =4,800 SF ☐ 60x40 2400 sf ☐ 60x40 3000 sf ☐ 72x40 3600 sf ☐ 72x40 2880 sf ☐ 84x40 3360 sf ☐ 84x40 4200 sf ☐ 96x40 3840 sf ☐ 96x40 4800 sf

☐ 108x40 4320 sf* ☐ 108x40 5400 sf* ☐ 120x40 4800 sf* ☐ 120x40 6000 sf* Geo-hazard site specific report must be provided and approved by CGS for building area more than

WOOD FTG -1000PSF ☐ CONCRETE FTG 1500PSF ALLOWABLE SOIL PRESSURE: FOUNDATION: GWOOD GONCRETE
PC IS DESIGNED BASED ON A PINNED CONNECTION TO THE FOUNDATION.

. l = 1

Ss = 2.14

S1 = 1.99

Sds = 1.00 (for building), Sd1 = 1.99,

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

CEC CLIMATE ZONE: 1-16 **WIND DESIGN**

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

EARTHQUAKE DESIGN

RISK CATEGORY **SEISMIC IMPORTANCE FACTOR: MAPPED SPECTRAL RESPONSE:**

SITE CLASS: 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:

OMF, R = 3.5**EQUIVALENT LATERAL FORCE** BASE SHEAR PER 24X40 MODULE: WOOD FLOOR, LL ≤ 100, BASE SHEAR= 20.04 kip WOOD FLOOR, LL = 150, BASE SHEAR= 26.71 kip CONC. FLOOR, LL ≤ 100, BASE SHEAR= 26.07 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

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

WHERE APPLICABLE

40 PER CALGREEN

PROFESSIONAL STAMP



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. ©



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 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 118918 DATE NOV - 7 2019 FLG: R. FERGER Acs: R-Mullen Revision Schedule

Description

COVER SHEET

PROJECT NUMBER 17016A DRAWN BY

rMc/SC CHECKED BY JA/RT

2018/03/08

SHEET NO.

TOTAL SHEETS (46)

ARCHITECTURAL

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COVER SHEET													A0.0
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Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0"	36' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light ssed Light Light ssed Light ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL Standir Parape Parape Standir COOF DE	ETAILS Join SEE ANS ang Sear	Det ists PLAN 2	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0"	36' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light Ssed Light Light Ssed Light Light Ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL Parape Parape Standir COOF DE	Join SEE 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A4.0.2 A4.0.2 A4.0.2
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0"	36' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light Ssed Light Light Ssed Light Light Ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF PL COOF DE COOF DE COOF DE COOF DE COOF DE	ETAILS John SEE ANS ang Searet TAILS	Det ists PLAN 2 7	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 Sheet A4.2 A4.0 A4.1 A4.2 A4.0 Sheet A4.3
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono	36' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light Ssed Light Light Ssed Light Light Ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL Parape Parape Standir COOF DE	ETAILS John SEE ANS ang Searet TAILS	Det ists PLAN 2 7	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 Sheet A4.2 A4.0 A4.1 Sheet A4.3 A4.1
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono	36' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light Ssed Light Light Ssed Light Light Ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF PL COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE	ETAILS John SEE ANS ang Searet TAILS	Det ists PLAN 2 7	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 Sheet A4.2 A4.0 A4.2 A4.0 Sheet A4.2 A4.0 A4.5
Celing Notes Ceiling Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono	36' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light Ssed Light Light Ssed Light Light Ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF PL COOF DE COOF	John SEE 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2
Celing Notes Ceiling Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual Dual Dual Dual Dual	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light Ssed Light Light Ssed Light Light Ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF PL COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE COOF DE	John SEE 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 Sheet A4.2 A4.0 A4.2 A4.0 Sheet A4.2 A4.0 A4.5
Celing Notes 3 Ceiling Details 1/4" = 1'-0" Celing Framing ▼ T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0" ▼ Mono Dual Dual O Arch Building Sec	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light ant Light Light ssed Light ssed Light ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF PL COOF DE COOF	Join SEE 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2 A4.0.2
Celing Notes 3 Ceiling Details 1/4" = 1'-0" Celing Framing ▼T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0" ▼Mono Dual Dual Arch Building Sec 1/4" = 1'-0"	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light ant Light Light ssed Light ssed Light ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF	Join SEE 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A3.4 Sheet A4.2 A4.0 A4.1 A4.5 A4.1 A4.5 A4.3 A4.1 A4.5
Celing Notes 3 Ceiling Details 1/4" = 1'-0" Celing Framing ▼ T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0" ▼ Mono Dual Dual O Arch Building Sec	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light ant Light Light ssed Light ssed Light ssed Light Light URAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL CHARTER COOF DE COOF D	John SEE 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A3.4 A4.0.2 A4.0.2 A4.0.2 A4.0.3 A4.1 A4.5 A4.3 A4.1 A4.5
Celing Notes 3 Ceiling Details 1/4" = 1'-0" Celing Framing ▼T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0" ▼Mono Dual Dual Arch Building Sec 1/4" = 1'-0"	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light sed Light sed Light sed Light sed Light light JRAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF	Join SEE 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m ON	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light sed Light sed Light sed Light sed Light light JRAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF	Join SEE 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m ON	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A3.4 A4.0.2 A4.0.2 A4.0.2 A4.0.3 A4.1 A4.5 A4.3 A4.1 A4.5
Celing Notes 3 Ceiling Details 1/4" = 1'-0" Celing Framing ▼T-GRID Wood MTL 7 Roof Plans 1/4" = 1'-0" ▼Mono Dual Dual Arch Building Sec 1/4" = 1'-0"	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light sed Light sed Light sed Light sed Light light JRAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF	Join SEE 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m ON	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	sed Light Light sed Light sed Light sed Light sed Light light JRAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF	Join SEE 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m ON	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono Dual Arch Building Sec 1/4" = 1'-0" Mono	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	JRAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF	Join SEE 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Det ists PLAN 2 7 m m ON	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.3 A3.4 A3.4 A3.4 A4.0.2 A4.
Celing Notes Celing Details 1/4" = 1'-0" Celing Framing T-GRID Wood MTL Roof Plans 1/4" = 1'-0" Mono Dual 22 Roof Details 1/4" = 1'-0" Mono Dual Arch Building Sec 1/4" = 1'-0" Mono	36' x 4 18' x 4	0'	(1	12 (1'x8 'x16') Re (12 (2'x4 16 (1'x8 'x16') Re 16 (2'x4 18 (1'x8 'x16') Re ARCH	d') Penda ecessed l') Reces ecessed l') Reces d') Penda ecessed HITECTU	JRAL CE	t Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 ht Fixture w/ 4 EILING DE Wall SEE PLAN 1 6 COOF PL COOF PL COOF DE COOF D	John SEE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Det ists PLAN 2 7 m m m ON	Acces SEE PL		EE PLAN Typ	A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2 A3.2

ARCHITECTURAL

		De	etail	Sheet	Det	ail	Sheet
Exterior Elevations:	□ 24'x40'	Left	Right		Front	Rear	
	☐ Mono 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'						
	XMono 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'	1.11					
	☐ Mono Slope	-1	2	A5.0	9	10	A5.1
	☐ Parapet Roof - Mono Slope	3 .	4	A5.0	11	12	A5.1
	☐ Dual Slope	5	6	A5.0	9	10	A5.1
Interior Elevations 1/4" = 1'-0"	ARCHITECTURAL INTER	IOR EL	EVATIO	NS			
				De	etail		Sheet
Interior Elevations:			Le	ft Right	Front	Rear	
	□ 24'x40'		1	2	3	4	A5.2
	∡ 36'x40'		1	2	5	6	A5.2
	□ 48'x40'		1	2	8 1 2	7	A5.2

M	1E	F

Plumbing	,	PLUMBING		Sheet
<u> </u>		The second secon		P1.0
- Maalaaniaa	ls and Schedules			
10 iviecnanica 1/4" = 1'-0		MECHANICAL	Sh	eet
			Ceiling Plan	Roof Plan
Mechanical	□ 24' x 40'	□ Wall Mount	M5.1	M5.2
Plans:		☐ Roof Mount	M5.1	M5.2
	★ 36' x 40'	₩all Mount	M6.1	M6.2
		☐ Roof Mount	M6.1	M6.2
	□ 48' x 40'	□ Wall Mount	M7.1	M7.2
		☐ Roof Mount	M7.1	M7.2
	□ 60' x 40'	□ Wall Mount		
		□ Roof Mount		
	□ 72' x 40'	□ Wall Mount		
		☐ Roof Mount		
	□ 84' x 40'	□ Wall Mount		
		□ Roof Mount	A().1
	□ 96' x 40'	□ Wall Mount		
		☐ Roof Mount		
	□ 108' x 40'	□ Wall Mount		
		☐ Roof Mount		
	□120' x 40'	□ Wall Mount		
		☐ Roof Mount		
11 Electrical 1/4" = 1'-0	#	ELECTRICAL	Sh	eet
Reflected Ceiling	□ 24' x 40'	☐ 8 (2'x4') Recessed Light Fixture		
Plans:	24 7 40	☐ 12 (1'x8') Pendant Light w/ 4		
		(1'x16') Recessed Light	E1.0	E1.1
	★ 36' x 40'			
	7) ()	☐ 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
	□ 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'			
	100 X 40	☐ 36 (2'x4') Recessed Light Fixture ☐ 54 (1'x8') Pendant Light w/ 4		
		(1'x16') Recessed Light		
	□ 120' x 40'	☐ 40 (2'x4') Recessed Light Fixture		
		☐ 60 (1'x8') Pendant Light w/ 4		
		(1'x16') Recessed Light		
	klers Plans	FIRE SPRINKLERS PLANS		Sheet
1/4" = 1'-0		Floor Plans		FS-2
☐ Fire Sprinklers				

STRUCTURAL

Foundations Plans 1/4" = 1'-0"	FOUNDATION	
XWood		Sheet
Foundation	□ 24'x40' (50+15 PSF)	F1.11
Plan:	□ 24'x40' (100 PSF)	F1.21
등은 일반들은 분들은 본 것	□ 24'x40' (150 PSF)	F1.31
	□ 36'x40' (50+15 PSF)	F1.12
	□ 36'x40' (100 PSF)	F1.22
	□ 36 x40 (160 FSF)	F1.32
	EX 30 X40 (130 1 G)	
	□ 48'x40' (50+15 PSF)	F1.13
	□ 48'x40' (100 PSF)	F1.23
	☐ 48'x40' (150 PSF)	F1.33
	1 40 X40 (130 PSF)	F2.10
☐ Concrete Foundation Plan ☐ General Structural Sheets		1 2.10
16 1/4" = 1'-0"	GENERAL STRUCTURAL SHEETS	Shee
STRUCTURAL GEN NOTES		S0.1
Floor Framing Plans		
1/4" = 1'-0"	STRUCTURAL FLOOR FRAMING PLANS	
X Wood		Shee
Sheating Floor:	▼ (50+15 PSF)	S1.0
	□ (100 PSF)	S1.02
	□ (150 PSF)	S1.03
☐ Concrete		
Framing Floor:	□ (50+15 PSF)	S1.1.
	□ (100 PSF)	S1.1.
	□(150 PSF)	S1.1.
Floor Framing Details 1/4" = 1'-0"	STRUCTURAL FLOOR FRAMING DETAILS	Shee
X Wood Framing		S1.2
☐ Concrete Framing		S1.2
- Doof Framing Plans		Chan
18 1/4" = 1'-0"	STRUCTURAL ROOF FRAMING PLANS	Shee
Mono Slope Roof Framing		S3.0.
☐ Dual Slope Roof Framing		S3.0.
Wall Framing Details 1/4" = 1'-0"	STRUCTURAL WALL FRAMING DETAILS	
X Wood:		Shee
★ Framing Elevation		S4.1
▼ Wall Details		S4.2
□ Metal:		
☐ Framing Elevation		S4.0
☐ Wall Details		S4.3
X Typ Framing:		S4.4
▼ Framing Schedule:		S4.5
Building Section 1/4" = 1'-0"	STRUCTURAL BUILDING SECTION	Shee
X Mono		S5.0
		S5.1
□ Dual		1 00.1



PROFESSIONAL STAMP



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ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHIPECT 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 118918 ACS___FLS___SS____ DATE___NOV - 7 2019

Revision Schedule Description

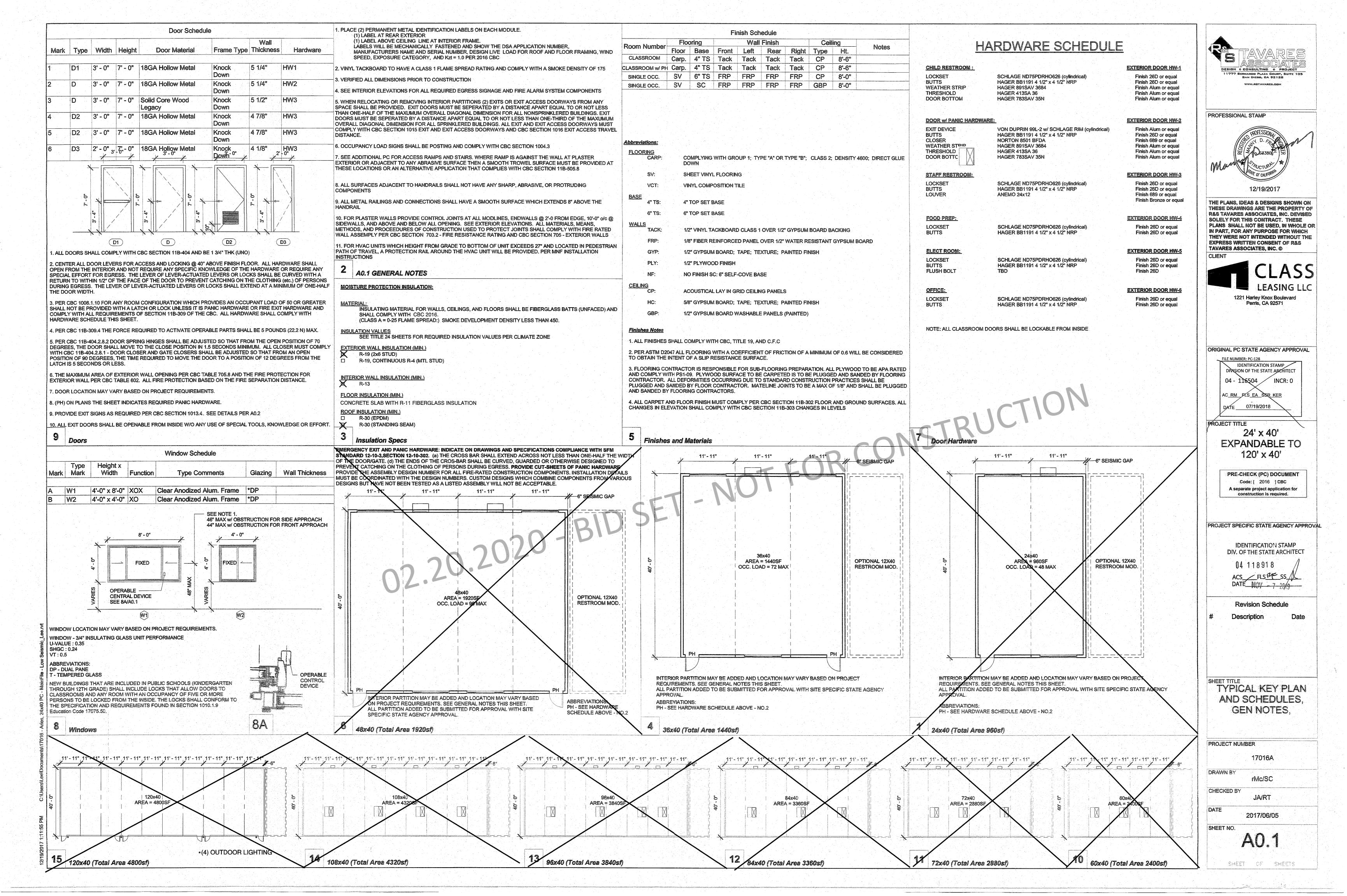
PROJECT OPTIONS
SCHEDULE

PROJECT NUMBER

2018/03/08

A0.0.1

SHEET OF SHEETS



Advisory 1008.4.2 Clear Floor or Ground Space. Clear floor or ground spaces, turning spaces, and accessible routes are permitted to overlap within play areas. A specific location has not been designated for the clear floor or ground spaces or turning spaces, except swings, because each play component may require that the spaces be placed in a unique location. Where play components include a seat or entry point, designs that provide for an unobstructed transfer from a wheelchair or other mobility device are recommended. This will enhance the ability of children with disabilities to independently use the play component.

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

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 Fire Alarm Systems

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)

703.1 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

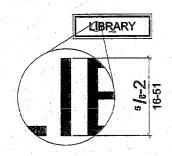


Figure 703.2.5 Height of Raised Characters

BRAILLE DIMENSIONS

Measurement hange	Minrium 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'	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below	0.395 (10 mm) to 0.400 (10.2 mm)
L. Measured conter to center.	

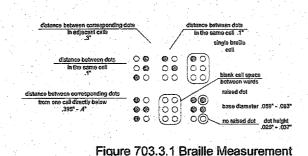
703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

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.

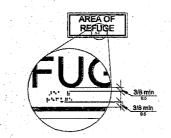


Figure 703.3.2 Position of Braille

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.

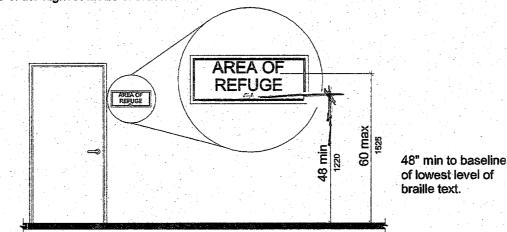


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

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.

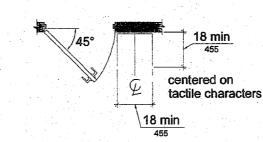


Figure 703.4.2 Location of Tactile Signs at Doors

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 on a light background.

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 "!".

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 "!" 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.

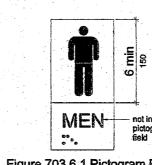
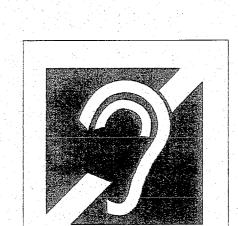


Figure 703.6.1 Pictogram Field dark-on-light.



OPENING

DETAIL REFERENCE

DETAIL NUMBER

- PAGE NUMBER

CONCRETE

MASONRY

ASSISTIVE LISTENING SYSTEM AVAILABLE - PLEASE ASK -

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

OCCUPANT LOAD SIGN REQUIRED PER DSA BU11-08.

MAXIMUM

OCCUPANCY

PERSONS

SECTION REFERENCE

- SECTION LABEL

- PAGE NUMBER

WOOD BLOCKING

BOTTOM OF FOOTING ELEVATION

CONTINUOUS WOOD

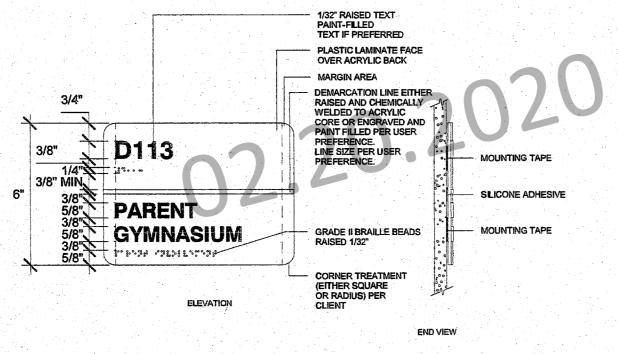
0.00' FIN. FLR. ELEV.

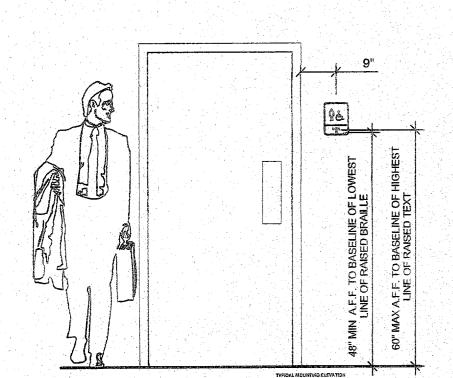
S——S STEPPED FOOTING

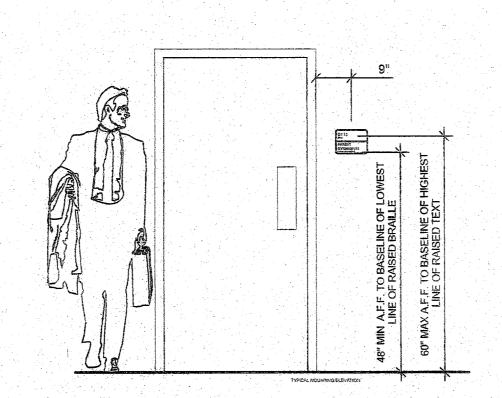
EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY

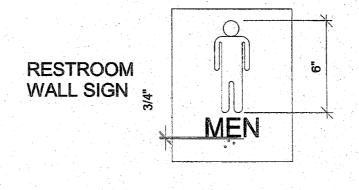
5 1/4" = 1'-0" Sign Notes

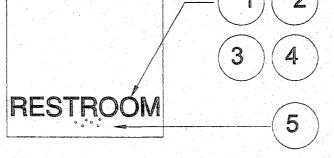
1/32" RAISED SYMBOLS CHEMICALLY WELDED TO ACRYLIC CORE (TYP PLASTIC LAMINATE FACE OVER ACRYLIC BACK MARGIN AREA DEMARCATION LINE EITHER RAISED AND CHEMICAL WELDED TO ACRYLIC CORE OR ENGRAVED AN PAINT FILLED PER USER PREFERENCE. LINE SIZE PER USER MEN WOMEN NOTE: LETTERS REQ'D TO BE RAISED. ALL GENDER RESTROOM BOYS CIE GIRLS ELEVATIONS

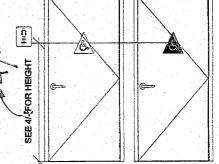


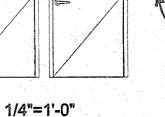


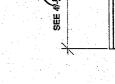












NOTE: TACTILE SIGN TEXT SHALL BE CENTERED 18" CLEAR FROM STRIKE OF

DOOR SYMBOLS: CIRLCLE & TRIANGLE1/4" THICK. 1/4" THICK TRIANGLE SHALL BE SUPERIMPOSED OVER 1/4" THICK CIRCLE AT UNISEX AND GENDER NEUTRAL RR.

> SHEET TITLE SIGNAGE AND SYMBOLS

Description

DESIGN & CONSULTING & PROJECT

1777 BERNARDO PLAZA COURT, SUITE 105 SAN DIESO, CA 92128

12/19/2017

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF

R&S TAVARES ASSOCIATES, INC. DEVISED

PLANS SHALL NOT BE USED, IN WHOLE OR

THEY WERE NOT INTENDED WITHOUT THE

1221 Harley Knox Boulevard

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITEC

AC RM FLS EA SSR KER

07/19/2018

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 118918

ACS__FLS_FESS_

DATE_NOV - 7 201

Revision Schedule

/INCR: 0

FILE NUMBER: PC-128

04 - 116504

Perris, CA 92571

IN PART, FOR ANY PURPOSE FOR WHICH

EXPRESS WRITTEN CONSENT OF R&S

TAVARES ASSOCIATES, INC. ©

SOLELY FOR THIS CONTRACT. THESE

WWW.RSTAVARES.COM

PROFESSIONAL STAMP

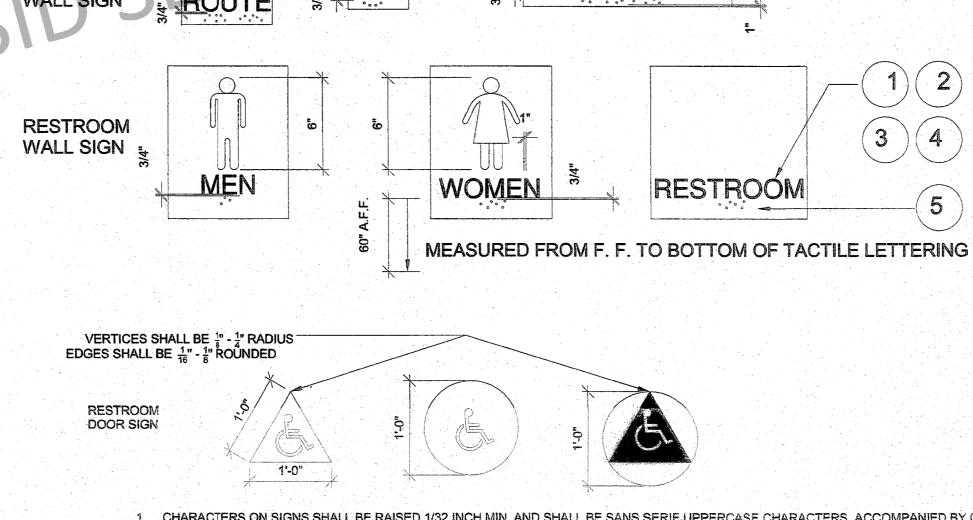
PROJECT NUMBER 17016A DRAWN BY rMc/SC

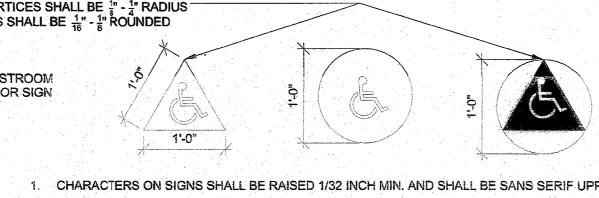
CHECKED BY JAIRT

manager to the second of the s

DATE 2017/06/05 SHEET NO.

SHEET OF SHEETS





OF BETWEEN 1:5 AND 1:10. SEE 11B.703.2.4

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.

MULTIPURPOSE

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

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

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

1/2" = 1'-0" Signage

				INCREMENT # DSA File No.: 44
Mark Control	DSA-103 Issued 12/30/2016			44 Application No
<i>†</i>	TUJA List of Required Str			k
BEFAR	DIVISION OF THE STATE ARCHITECT Special Inspections	- 2016 C	BC	Date Submitted: ## Revised: ##
	0 4			Revised: #
chool Name			District	
nspecton this abora must be the sting including framing composition.	TANT: This form is only a summary list of structural tests and some of tions required for the project. Generally, the structural tests and special form are those that will be performed by the Geotechnical Engineer of Fatory of Record, or Special Inspector. The actual complete test and inspet performed as detailed on the DSA approved documents. The appending identifies work NOT subject to DSA requirements for special inspection. The project inspector is responsible for providing inspection of all faceting but not limited to, special inspections not listed on this form such as a g, high-load wood diaphragms, cold-formed steel framing, anchorage of others, etc., per Title 24, Part 2, Chapter 17A.	nspections noted Record, ection program x at the bottom of on or structural s of construction, tructural wood non-structural	and sp depend your so can be "COMI	UCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional ecial inspections. A shaded box indicates a test or special inspection that may be requiding on the scope of the construction and other issues. A shaded box can be clicked indelection of that test. Note: A minus (-) on a category or subcategory heading indicates collapsed. However, any selections you may have made will be cleared. Click on the PILE' button to show only the tests and inspections finally selected. For more informations this form, see DSA-103.INSTR.
<i></i>	TEST OR SPECIAL INSPECTION	16 edition of the Ca	alifornia B	code (CBC) unless otherwise noted.
4	SOILS	T.1. 4705.0	A 01 040 44	10.11.00.00.00.10
e dia	CONCRETE		**********	Sections 26.12 & 26.13
n¦a	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.2.1	, AISC 303	1-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
	17. STRUCTURAL STEEL, COLD-FORMED ST	EEL, AND ALU	IVINUN	USED FOR STRUCTURAL PURPOSES
	Material Verification:	· · · · · · · · · · · · · · · · · · ·	·	
X	a. Verify identification of all materials and: Mill certificates indicate material properties that comply with requirements.	Periodic		2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2, S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician performed off-site.
X	Material sizes, types and grades comply with requirements. D. Test unidentified materials	Test	LOR	2203A.1 (2203.1*).
	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
	Inspection:			
	d. Not used.			
X	d. Not used. e. Verify and document steel fabrication per DSA epproved construction documents.	Periodic	Si	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
X	e. Verify and document steel fabrication per DSA epproved	Periodic RCSC 2009	Sì	
	e. Verify and document steel fabrication per DSA epproved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING:		SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). 1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structions steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing states (See Appendix for exemptions.)
	e. Verify and document steel fabrication per DSA epproved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING: Verification of Materials, Equipment, Welders, etc:		SI	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, AWS D1.4 for reinforcing steel, AWS D1.5 for cold-formed steel, AWS D1.
	a. Verify and document steel fabrication per DSA epproved 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.		SI	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, AWS D1.4 for reinforcing steel, AWS D1.5 for cold-formed steel, AWS D1.
•	e. Verify and document steel fabrication per DSA epproved construction documents. 18. HIGH STRENGTH BOLTS: 19. WELDING: Verification of Materials, Equipment, Welders, etc: a. Verify weld filler material identification markings per AWS	RCSC 2009		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 states (See Appendix for exemptions.)
*	a. Verify and document steel fabrication per DSA approved 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	RCSC 2009	SI	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 states (See Appendix for exemptions.) DSA IR 17-3.
X	a. Verify and document steel fabrication per DSA approved 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 compliance.	Periodic Periodic	SI SI	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 s (See Appendix for exemptions.) DSA IR 17-3. DSA IR 17-3.

SI

Continuous SI 1

Test LOR

DSA IR 17-3.

Periodic SI 1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.

 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/ASNT

 Test
 LOR
 CP-189, SNT-TC-1A. DSA IR 17-2.

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

Test LOR IR 17-11 Sample and test anchor bolts and anchor rods not reedily identifiable.

Test LOR Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11

1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable).

1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 17-

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.

Reconformentifie of the limit and wo r Title		cord, Laboratory n must be tom of this form and testing. The n, including but framing, high- omponents, etc., 17, 2010, and	depen your s can be "COM use o	al inspections. A shaded box indicates a test or special inspection that may be required using on the scope of the construction and other issues. A shaded box can be clicked indicating election of that test. Note: A minus (-) on a category or subcategory heading indicates that it is collapsed. However, any selections you may have made will be cleared. Click on the IPILE" button to show only the tests and inspections finally selected. For more information on if this form, see DSA-103.INSTR.
/ ₄ 4	TEST ON SPECIAL INSPECTION	zapi		OR CODE REFERENCE AND NOTES
	SOILS 1. GENERAL:	Table 1705A.		
X	a. Verify 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.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	COMPACTED PLLS: a. Perform classification and testing of fill materials.	Table 1705A	6 LOR*	* Under the supervision of the geolechnical engineer.
X	Verify use of proper meterials, densities end inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
*	c. Test compaction of fill. 3. DRIVEN DEEP FOUNDATIONS (PILES): 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIEI	Test Table 1705A.	LOR* 7 Table 1	* Under the supervision of the geotechnical engineer. 705A.8
+	5. RETAINING WALLS: 6. OTHER SOILS:			
	CONCRETE	Table 1705A.3,	ACI 318-14	4 Sections 26.12 & 26.13
- 1	7. CAST IN PLACE CONCREVE Material Verification and Testing:			Table 1705A.3 Item 5, 1910A.1 (1609.2.3*). * To be performed by qualified batch-plent inspector and
X	a. Verify use of required design mix. b. Identify, sample, and test reinforcing steel.	Periodic Test	SI*	concrete sampling technician 1910A.2 (1909.2.4*); ACI 318-74 Section 26.6.1.2. DSA IR 17-10
x	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and	Test	LOR	Table 1705A.3 Item 6 ACI 118-14 Sections 26.5 & 26.12
X	determine the temperature of the concrete. d. Test concrete (fc).	Test	LOR	1905A.1.16 (1909.3.7'); ICI 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 equirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See
	f. Not used.			Appendix for exemptions.)
	g. Not used.			
	h. Welding of reinforcing steel. I. Not used.	Provide special i	nspection p	per STEEL, cate ory 19.1(d) & (e) and/or 19.2(g) & (h) below.
÷	8. PRESTRESSED CONCRETE (in addition to 9. PRECAST CONCRETE (in addition to Cast i	Oast in Place n Riace Cond	Concre	ete tests and inspections): ets and inspections):
+	10. SHOTCRETE (in addition to Cast in Place C 11. POST-INSTALLED ANCHORS:			
X	a. Inspect installation of post-installed anchors	See Notes	SI*	Typic 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by DS
X	b. Test post-installed anchors. 12. OTHER CONCRETE:	Test	LOR	1910A.5 (1909.2.7*). (See Appendix for exemptions.)
X	STEEL, ALUMINUM 17. STRUCTURAL STEEL, COLD-FORMED STE Material Verification: a. Verify identification of all materials end: · Mill certificates indicate material properties that comply with requirements, · Material sizes, types and grades comply with requirements. b. Test unidentified materials c. Examine seam welds of HSS shapes Inspection:			3-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI \$100-07/\$2-10 1 USED FOR STRUCTURAL PURPOSES 2203A-1 (2203.1*), Table 1705A-2.1 Item 3a-3c; AISI \$100-07/\$2-10 Section A2.1 & A2.2, AISI \$2012 Section A3, AISI \$220-11 Section A4.* By special inspector or qualified technician when performer off-site. 2203A-1 (2203.1*). DSA IR 17-3.
x	d. Not used. e. Verify and document steel fabrication per DSA approved	Périodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
+	construction documents. 18. HIGH STRENGTH BOLTS:	ROSC 2009		1705A2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural ster
	19. WELDING: Verification of Materials, Equipment, Welders, etc:			AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	, sı	DSA IR 17-3
X	b. Verify weld filler material manufacturer's certificate of compliance. c. Verify WPS, welder qualifications and equipment.	Periodic Periodic	SI	DSA IR 17-3.
<u>A</u>	19.1 SHOP WELDING: a. Inspect groove welds, multi-pass fillet welds, single pass fillet		T	
X	welds > 5/16", plug and slot welds b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck wylds	Periodic Periodic	SI	Table 1705A.2.1 Item 5a.1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. 1705A.2.2, Table 170 A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applicable).
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	DSA IR 17-3. 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 weldability other than ASTM A706 e. Inspect welding of reinforcing steel.	Periodic Continuous	SI SI	1705A.3.1; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3. 1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 17-3.
.	19.2 FIELD WELDING: a. Inspect groove welds, multi-pass fillet welds, single pass fillet	Continuous	Sı	Table 1705A.2.1 Item 5a1-4. Pel AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	welds > 5/16", plug and slot welds b. Inspect single-pass fillet welds ≤ 5/16" c. Inspect end-welded studs (ASTM A-108) installation (including	Periodic	SI	Table 1705A.2.1 Item 5a.5. Per AI3C 360-10 (and AISC 341-10 as epplicable). DSA IR 17-3.
	bend test) d. Inspect floor and roof deck welds	Periodic Periodic	SI SI	2213A.2 (2212.6.2*); per AISC 360-10 (and AISC 341-10 as epplicable), AWS D1.1. DSA IR 17-3. 1705A.2.2, Table 1705A.2.1 Item 5a.6, per AISC 360 (and AISC 341 as applicable) & AWS D1.3.
	e. Inspect welding of structural cold-formed steel	Periodic	SI*	DSA IR 17-3. 1705A.2.5; AWS D1.3. * May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
	f. Inspect welding of stairs and railing systems g. Verification of reinforcing steel weld bility	Periodic Periodic	SI*	1705A.2.1; Per AISC 360-10 (and AISC 341-0 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. 1705A.3.1; verify carbon equivalent reported on nill certificates. DSA IR 17-3.
	h. Inspect welding of reinforcing steps.	Continuous	SI	1705A.3.1; verify carbon equivalent reported on full certificates. DSA IR 17-3. 1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA IR 17-3.
X	20. NONDESTRUCTIVE TESTING: a. Ultrasonic	Test	LOR	1705A.2.1 & 1705A.2.5. AISC 360-10 N5.5, AISC 34 -10 App. Q 5.2. AWS D1.1, D1.8. ANSI/ASNT
X	b. Magnetic Particle c. d.	Test Test Test	LOR LOR	CP-189, SNT-TC-1A. DSA IR 17-2.
* *	21. STEEL JOSTS AND TRUSSES: 22. SPRAY APPLIED FIRE-PROOFING: 23. ANCHOR BOLTS, ANCHOR RODS, & OTHE a. Anchor Bolts and Anchor Rods	R STEEL:	LOR	IR 17-11 Sample and lest anchor bolts and anchor rods not read y identifiable.
+	b. Threaded rod not used for foundation anchorage. c. WOOD	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11
	OTHER /			
,5,,	THE EXAMPLE OF FORM DSA-103s SHOWN ON FORM DSA-103 IS TO BE COMPLETED FOR EACH WITO AND ALL EXAMPLE FORM DSA-103s ARE	CH APPLICAT	ION TH	AT THIS PC IS BEING INCORPORATED \

A	DSA DATEMON OF THE STATE ARGUMENT THE STATE OF SENERAL SERVICES	DSA-103 Issued 12/30/2016 List of Required Special Inspection	Struct	2
iool				

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

performed as detailed on the DSA approved documents. The appendix at the bottom of this form

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

not limited to, special inspections not listed on this form such as structural wood framing, highload 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, 2010, and

per Title 24, Part 2, Chapter 17A.

2013 CBC.

ural Tests & 2016 CBC

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

Revised: District special inspections. A shaded box indicates a test or special inspection that may be required,

INSTRUCTIONS; Click a plus sign (+) before any category or subcategory to reveal additional tests and on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory 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 identifies work NOT subject to DSA requirements for special inspection or structural testing. The "COMPILE" button to show only the tests and inspections finally selected. For more information on project inspector is responsible for providing inspection of all facets of construction, including but use of this form, see DSA-103.INSTR.

+	SOILS			CODE REFERENCE AND NOTES
and a second large	CONCRETE	Table 1705A.3.	ACI 318-14	Sections 26.12 & 26.13
, e	MASONRY			SCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5

•	STEEL, ALUMINUM			8-10, AISC 388-10, AISC 341-10, AISC 358-10, AISI \$100-07/\$2-10
	17. STRUCTURAL STEEL, COLD-FORMED STEE Material Verification:	el, and all	MINCHA	USEU FUR STRUCTURAL PURPUSES
X	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	2203A.1 (2203.1*), Table 1705A.2.1 Item 3a-3c; AISI S100-07/S2-10 Section A2.1 & A2.2. A 12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when peoff-site.
X	b. Test unidentified materials	Test	LOR	2203A.1 (2203.1*).
	c. Examine seam welds of HSS shapes	Periodic	Sì	DSA IR 17-3.
	Inspection:			
	d. Not used.			
X	e. Verify and document steel fabrication per DSA approved construction documents.	Periodic	Si	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
+	18. HIGH STRENGTH BOLTS:	RCSC 2009		
	19. WELDING:			1705A.2.5, Table 1705A.2.1 Items 4 & 5; DSA IR 17-3, AWS D1.1 and AWS D1.8 for struct: AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (Se Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			_
X.	A. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	Si	DSA IR 17-3.
X	Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
X	c. Verify WPS, welder qualifications and equipment.	Periodic	Si	DSA IR 17-3.
•	19.1 SHOP WELDING:			
X	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	Continuous	SI	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-
X	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	Periodic	Si	1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6. Per AISC 360-10 (and AISC 341-10 as applic DSA IR 17-3.
X	c. Inspect welding of stairs and railing systems.	Periodic	Sì	1705A.2.1. Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17
•	d. Verification 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.
	e. Inspect welding of reinforcing steel.	Continuous	Si	1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA
	19.2 FIELD WELDING:			
	a. Inspect groove welds, multi-pass fillet welds, single pass fillet	Continuous	Si	Table 1705A.2.1 Item 5a1-4. Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17
X	welds > 5/16", plug and slot welds b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Table 1705A.2.1 Item 5a.5. Per AISC 360-10 (and AISC 341-10 as applicable). DSAIR 17-3
	c. Inspect end-welded studs (ASTM A-108) installation (including	Periodic	Si	2213A.2 (2212.6.2*); per AISC 360-10 (and AISC 341-10 as applicable), AWS D1.1. DSA IR
	bend test)		Si	1705A.2.2, Table 1705A.2.1 Item 5a.6; per AISC 360 (and AISC 341 as applicable) & AWS
	d. Inspect floor and roof deck welds	Periodic		DSA IR 17-3. 1705A.2.5; AWS D1.3. * May be performed by the project inspector when specifically approve
	e. Inspect welding of structural cold-formed steel	Periodic	Si*	DSA/DSA IR 17-3.
	f. Inspect welding of stairs and railing systems	Periodic	SI*	1705A.Z.1; Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
- " - ::-	g. Verification of reinforcing steel weldability	Periodic	SI	1705A.3.1; verify carbon equivalent reported on mill certificates. DSA IR 17-3.
	h. Inspect welding of reinforcing steel.	Continuous	Si	1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8. AWS D1.4. DSA
: <mark>-</mark> : '	20. NONDESTRUCTIVE TESTING:			
X	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. ANS
X	b. Magnetic Particle	Test	LOR	CP-189, SNT-TC-1A. DSA IR 17-2.
10		Test	LOR	
+	21. STEEL JOISTS AND TRUSSES: 22. SPRAY APPLIED FIRE-PROOFING:			
	23. ANCHOR BOLTS, ANCHOR RODS, & OTHER	R STEEL:		
	a. Anchor Bolts and Anchor Rods	Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11
	WOOD	أسمي ومحمد والمعاملات		

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

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-1036 ARE TO BE CROSSED OUT ON THIS DRAWING.



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 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 118918

> Revision Schedule Description

DSA-103 T&I PLYWOOD FLOORS

PROJECT NUMBER

17016A DRAWN BY

CHECKED BY

2017/06/05

2 6" = 1'-0" DSA-103 PLYWOOD FLOOR (Concrete Foundation)1

1 6° = 1'-0" DSA-103 PLYWOOD FLOOR (Wood Foundation)1

welds > 5/16", plug and slot welds

X c. Inspect welding of stairs and railing systems.

e. Inspect welding of reinforcing steel.

Z0. NONDESTRUCTIVE TESTING:
 X a. Ultrasonic
 X b. Magnetic Particle

a. Anchor Bolts and Anchor Rods
 b. Threaded rod not used for foundation anchorage.

+ 19.2 FIELD WELDING:

+ WOOD

+ OTHER

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

d. Verification of reinforcing steel weldability other than ASTM A706

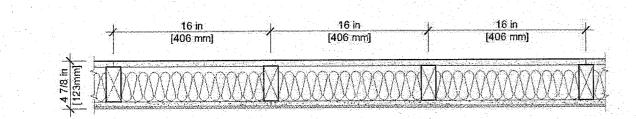
23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL

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 DIVERSION



UL U329 or GAP WP 3441 Interior Partitions -Wood Stud

Fire Rating

STC 40 MIN.

Thickness (in.) 4-7/8"

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

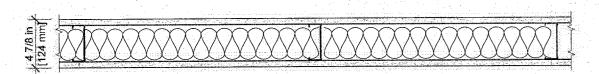
* Wood Studs - 2 in. x 4 in. wood studs spaced max. 16 in. o/c

* 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

40 MIN.

Thickness (in.) 4-7/8"

* 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)

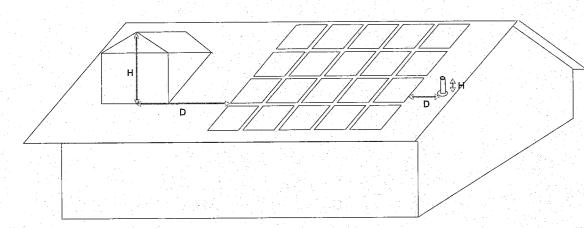
* Steel Studs - 3-5/8 in. wide min. 25 gauge steel. Attached to floor and ceiling with fastners, 24 in o/c - 362S125-18

* 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

			SECTION S	SHEET	COMPLIAN		REEN AND ENERGY CODE PC) PERMANENT AND MODULAR RELOCATABLE	BUILDING DESIGNS	
설레 경우는 전 학교 등관하다는 이제 하는다.			WATER E	EFFICIEN					
			5.303.3 5.303.3	P1.0 PLU	ATER CONSERVING PLUMBING JUBBING FIXTURE FLOW RATES AR	G FIXTURES AND FITTINGS: E SHOWN ON PLUMBING FIXTURE SCHEDUL	E		<u> </u>
			MATERIA	AL CONSI	ERVATION & RESOURCE	CE EFFICIENCY			
			5.407.2.2	PLA	ATER RESISTANCE AND MOIS ANS AND FINISH SCHEDULE SHOW	THE LOCATION OF THE MINIMUM REQUIRED	DINTERIOR DOOR PROTECTION AND INDICATE THE NON-	ABSORBENT FLOOR AND WA	ALL FINISHES
			5.407.2.2.1 A	A1.0-1.2, PLA	ANS AND SECTIONS INDICATE THE		ANCES. ITH THE LOCATION AND DETAILS FOR A 4 FEET DEEP AWI	VING, ROOF OVERHANG, REC	CESSED
ous in the second of the secon			5.407.2.2.2 A4	4.0.1-4.3 RO	OF PLANS AND DETAILS INDICATE	THOD AT THE PRIMARY ENTRANCES. FLASHINGS INTEGRATED WITH A DRAINAGE	E PLANE.		
			5.408.1	PRO		L WASTE AND RECYCLING FACILITY USED B	THE MANUFACTURER WHICH SPECIFIES A CONSTRUCT	ON WASTE MANAGEMENT PL	LAN IDENTIFYIN
CILITY (MRF) ER DIVERSION					THE CONSTRUCTION WASTE		SAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PR	OJECT, OR SALVAGED FOR I	FUTURE USE OF
			5.408.1	PDF	DIVERSION FACILITY WHERE	ON WASTE MATERIALS WILL BE SORTED ON- E CONSTRUCTION WASTE WILL BE TAKEN.			<u> </u>
					✓ SPECIFIES IF THE AMOUNT OF WASTE MANAGEMENT COMP	OF CONSTRUCTION WASTE IS CALCULATED PANY IS ABLE TO PROVIDE VERIFIABLE DOC	BY WEIGHT OR VOLUME. UMENTATION THAT 65% OF CONSTRUCTION WASTE MATE	RIAL WILL BE DIVERTED.	
					L QUALITY				
			5.504.4 5.504.4.1	1	DLLUTANT CONTROL DHESIVES, SEALANTS AND CA	AULKS			
				40.5	FINISH	WHERE USED (TYPE) NuBroadLok, Mohawk Inc.	MANUFACTURER/SPECIFICATION NuBroadLok, Mohawk Inc.	voc vo	OC LIMIT (GPL)
				Car	oor Carpet Adhesives	N/A Interior Base	Henry 440	0	50
			5.504.4.3	A0.5 Mul	ve Base Adhesives Iti-purpose Construction Adhesives 1	General	Liquid Nails - Heavy Duty construction adhesive Hankel - Loctite Light Cure	70 20	70 70
			5.504.4.4			General		20	70
A. A. Z.		그리다는 항목이 하는 사는 소문에는 하는 모양	5.504.4.2			General	Hankel - Loctite Light Cure	33	250
			5.504.4.1 5.504.4.1	A0.5 Arc	chitectural 2	Exterior Exterior	Sherwin williams - 850A White Sherwin williams - Shermax clear	19	250
			5.504.4.1	A0.5 Sin	ngle ply roof Membrane	Roof Caulk/Sealer	Tremco - Future Flash Sealant	6	450
			5.504.4.3	A0.5 PA	AINTS AND COATINGS FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	voc vo	OC LIMIT (GPL)
					rosol Spray Flat Paint	Painted Surface Painted Surface	Krylon Sherwin Williams - Pro Mar 200 Zero	<60 50	60 50
			5.504.4.3 5.504.4.3	A0.5 Fla	at Coatings 2	Painted Surface	Dunn Edwards Paints - Acra Hues Vista Paints	40	50 50
			5.504.4.3			Painted Surface		- 30	
					all Material 1 all Material 1	FRP Wall Covering Tackable Wall (Non-absorbent)	Glassco Chatfield Clarke		
			5.504.4.4	A0.5 CA	ARPET SYSTEMS				
			5.504.4.4	A0.5 Car	FINISH	MANUFACTURER Mohawk Carpets	CERTIFICATION OR Carpet & Rug Institute - Green Label Plus Program	SANIZATION	
			5.504.4.5	НА	ARDWOOD PLYWOOD, PARTIC	CLEBOARD, FIBERBOARD WOOD PRO	DUCTS		
			3.304.4.3		FINISH	WHERE USED (TYPE)	MANUFACTURER/SPECIFICATION	FORMALDEHYDE FO	FORMALDEHYDE LIMIT
			5.504.4.5	A0.5 Ply	ywood	Roof / Floor	APA Rated	<.05	0.05
			5.504.4.6	A0.5 RE	ESILIENT FLOORING SYSTEM	S			
					FINISH	MANUFACTURER	CERTIFICATION ORGANIZATION		+ 1,
					nyl Composition Tile Flooring neet Vinyl Flooring	Armstrong / Imperial Mannington	CA Dept. of Public Health's 2010 Standard Method for the CA Dept. of Public Health's 2010 Standard Method for the	Testing	
					RP Wall Covering	Glassco Chattfield Clarke	CA Dept. of Public Health's 2010 Standard Method for the CA Dept. of Public Health's 2010 Standard Method for the		
					LTER SPECIFICATION:			<u> </u>	
				M0.1 CC	OVERING OF DUCT OPENINGS AND	D PROTECTION OF MECHANICAL EQUIPMENT OTE INCLUDES INFORMATION REQUIRING A			
			3.304,3.3	IN	DOOR MOISTURE CONTROL:				1
			5,507.4		ATTIC IS UNVENTED NVIRONMENTAL COMFORT:				
					XTERIOR NOISE TRANSMISSION NOTE ON COVERSHEET THAT S	ON: TATES - "THIS PC WILL NOT BE PLACED IN A	NY OF THE FOLLOWING LOCATIONS:		
			5.507.4.1	A0.0 1-1	WITHIN THE 65 CNEL NOISE CONT	TOUR OF AN AIRPORT;	, RAILROAD, OR INDUSTRIAL SOURCE GUIDEWAY;		
				3-1	WHERE EXPOSED TO NOISE LEVE ITERIOR SOUND TRANSMISSI	EL OF 65 DB LEQ-1-HR DURING ANY HOUR OF	OPERATION."		
	기가 하는 그는 사람들이 가는 사람들은 것이 되었다.			A0.5 INT	TERIOR WALLS MEET MINIMUM 40 STC.				
			5.508.1 5.508.1		UTDOOR AIR QUALITY: VAC EQUIPMENT DOES NOT CONTAIN CFO				
	이번 시민에는 이 이번 사람들에는 가는데 되었다.								
			L C						
흥분하는 것이 손님이 가장 이 사이를 되었다. 수									
사람들은 경우 사람들은 경우를 받는 것이 되었다. 그 사람들은 경우를 받는 것이 되었다. 1980년 - 1980년 - 1980년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년							생물을 된다. 당신 점하는		
		그 하는 그렇게 하는 일반 전에 되었다. 함께 되었다.							
				-					

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

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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITEC 04 - 116504 AC RM FLS EA SSR KER 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 ACS___FLS___SS__ DATE NOV - 7 2019

> Revision Schedule Description

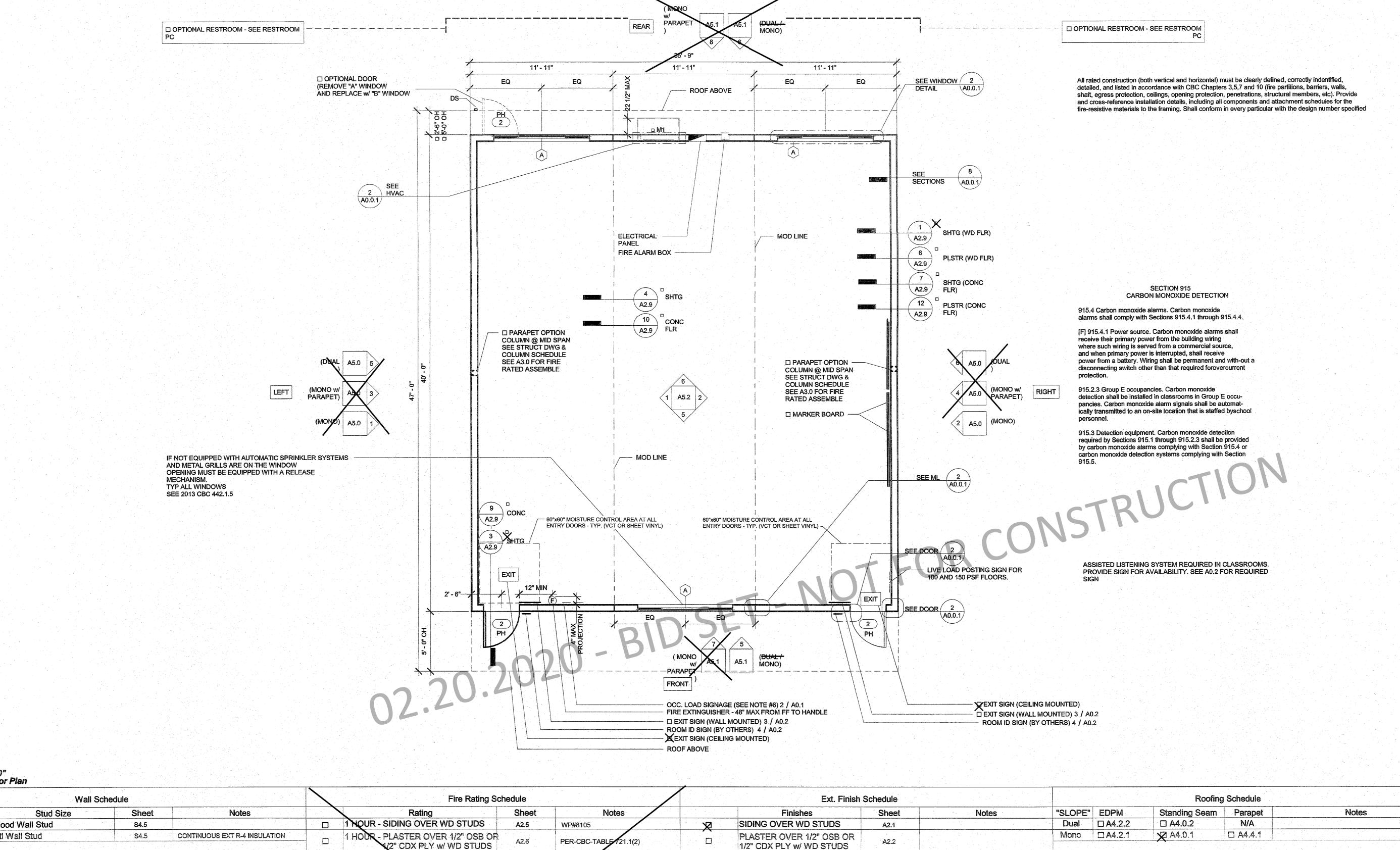
CALGREEN SPEC'S

PROJECT NUMBER 17016A DRAWN BY rMc/SC

CHECKED BY

2017/06/05

SMEET OF SHEETS



1/4" = 1'-0" 36x40 Floor Plan Wood Wall Stud 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS Mtl Wall Stud SIDING OVER STL STUDS WP#8006 A2.3 1 HOUR - PLASTER OVER 1/2" OSB OR PLASTER OVER 1/2" OSB OR PER-CBC-TABLE 721.1(2) A2.4 1/2" CDX PLY W/ STL STUDS 1/2" CDX PLY w/ STL STUDS * SEE A0.5 FOR INTERIOR SOUND TRANSMISSION REQUIREMENTS, INTERIOR WALL LOCATION PER SITE SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS SPECIFIC APPLICATION DRAWING, **HVAC Unit** Type Comments Keynote Туре XM1 See (M)-Sheets | Wall Mounted HVAC □ M2 See (M)-Sheets Roof Mounted HVAV 1/4" = 1'-0" Ext. Finish Schedule 5 1/4" = 1'-0" Wall Schedule 1/4" = 1'-0"Fire Rating Schedule

DESIGN & CONSULTING & PROJECT

11777 BERNAROD PLAZA COURT, SUITE 105

SAN DIEGO, CA 92128

WWW.RSTAVARES.COM

PROFESSIONAL STAMP



12/19/2017

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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIVISION OF THE STATE ABCHITECT

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

Revision Schedule

Description

SHEET TITLE 36x40 FLOOR PLAN

PROJECT NUMBER

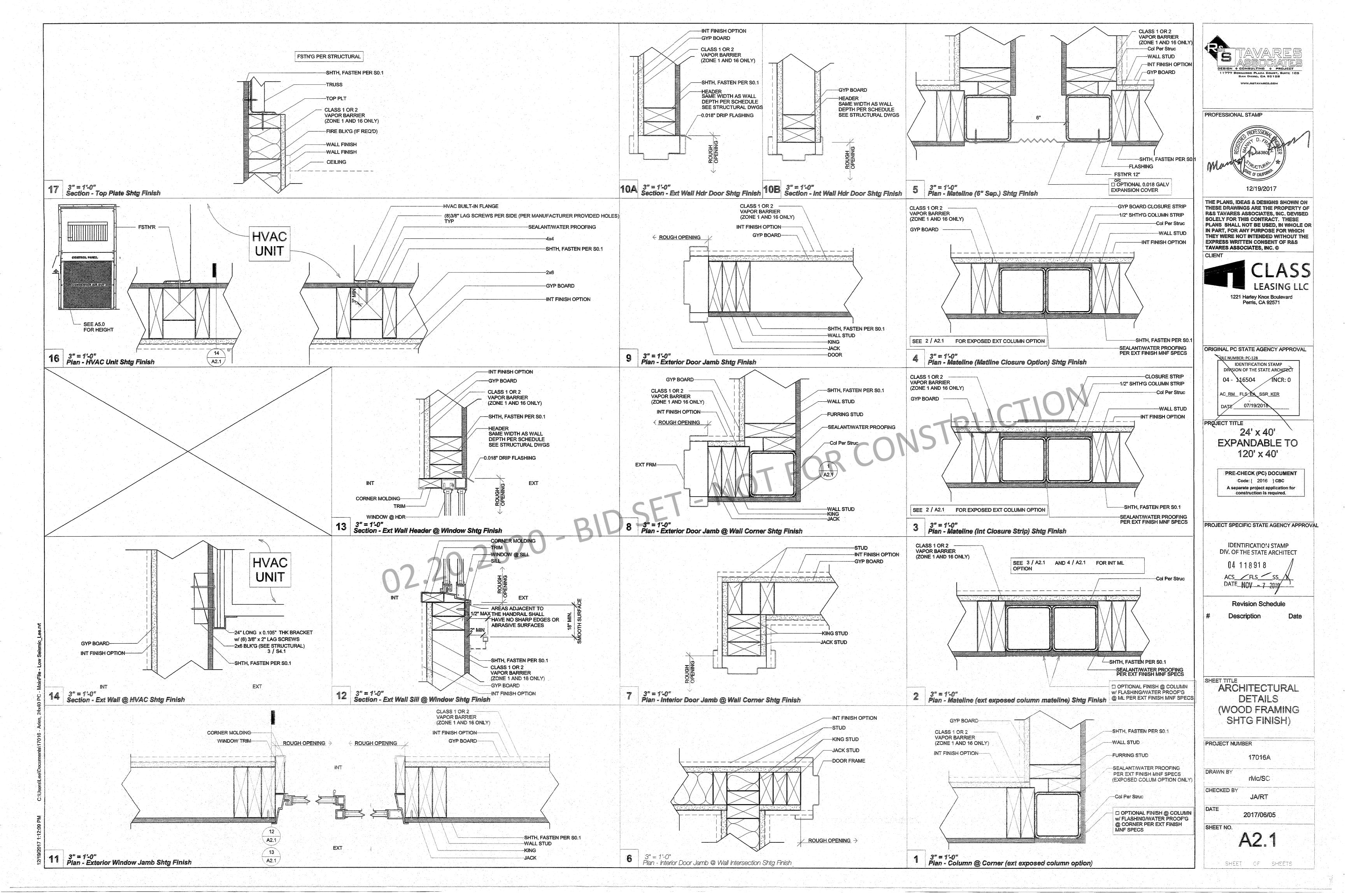
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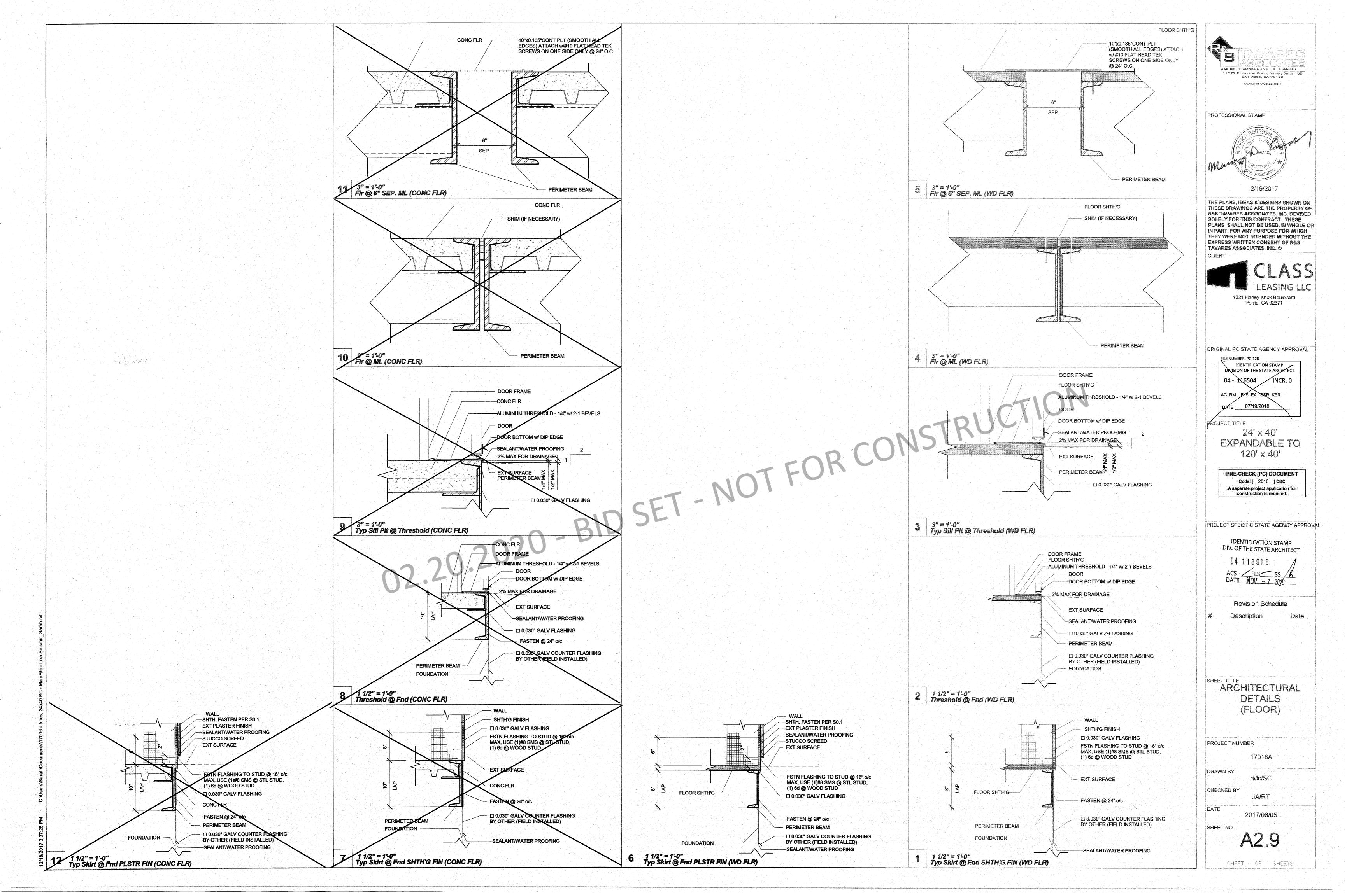
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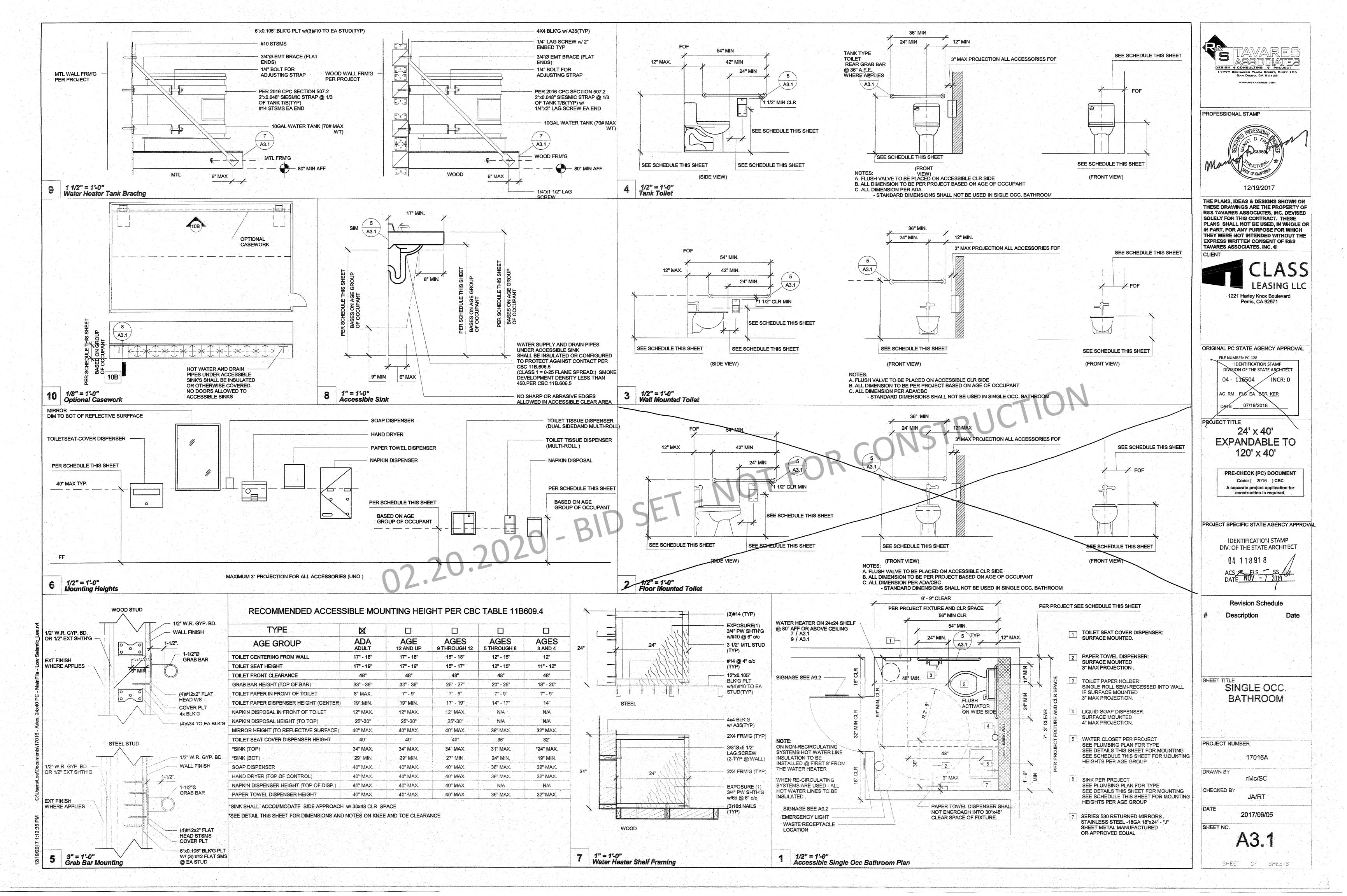
DATE 2017/06/05

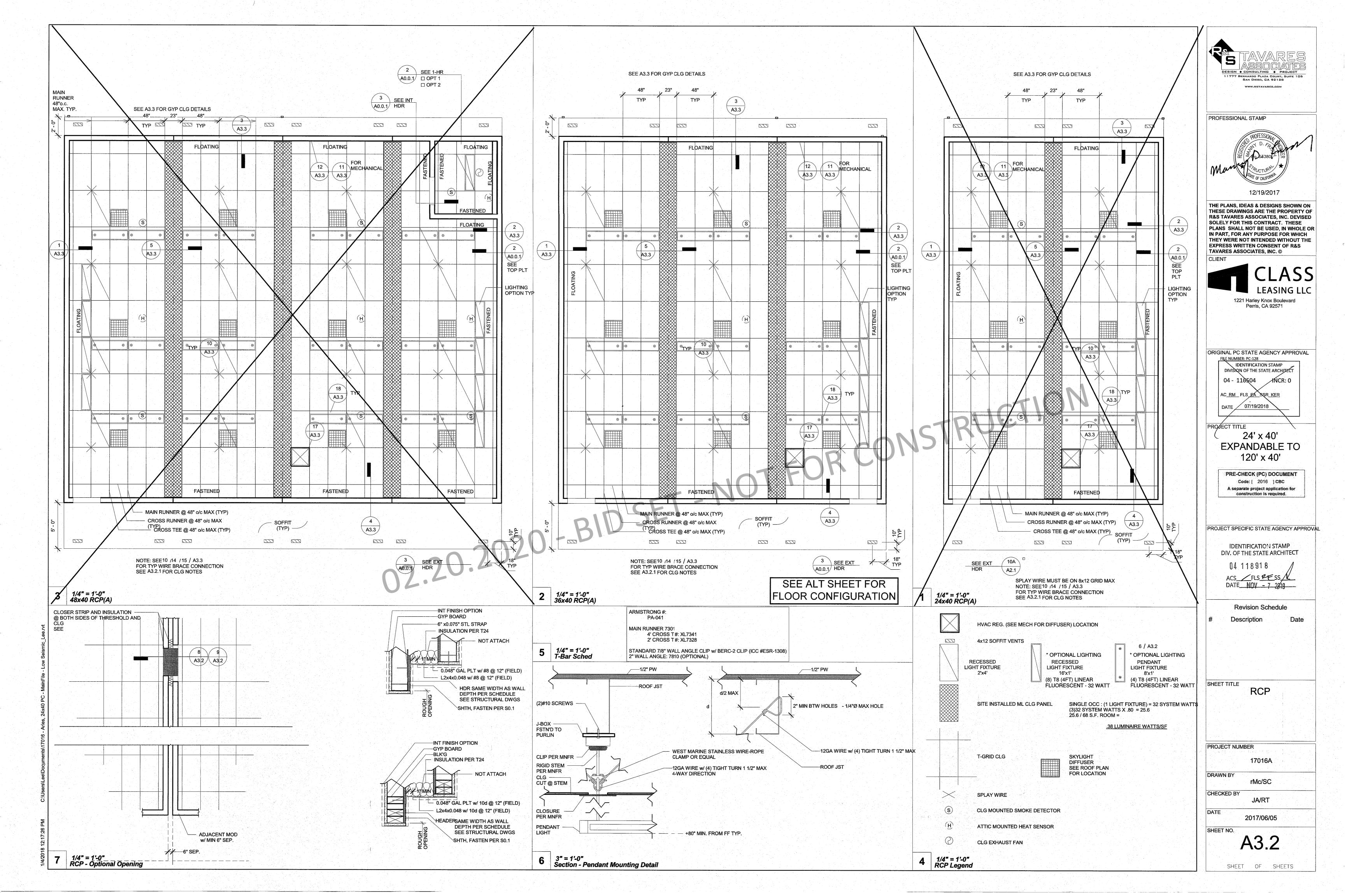
SHEET NO.

SHEET OF SHEETS









1.	CEILING SYSTEM GENERAL NOTES:	
1.01	Ceiling system components shall comply with ASTM C635-07 and Section E580-10a. The ceiling grid system must be rated heavy duty as defined by ASTM C63	
1.03	Ceiling systems. The following ceiling system(s) is/are part of the scope [For each system used, the RDP shall indicate in the construction information that follows]	of this project documents, th
	2012 00 35100 000 000 000 000 000 000 000 000 000	
	Manufacturer's Name ARMSTRONG Product Evaluation Report Type and Number PA-041 Manufacturer's Model Number - main runner 7301 Manufacturer's catalog number - cross runner 4' CROSS T #: XL7341	(SEE A3.2)
1.04	Manufacturer's Name ARMSTRONG Product Evaluation Report Type and Number PA-041 Manufacturer's Model Number - main runner 7301	

- 1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 34" 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.
- 2.01 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 strength = 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

2. MATERIALS:

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.

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.

	Basis Document: DSA	IR 25-2.13			Sheet No:
	Sheet Title:		rev.	09-21-15	1 1 00
÷	Ceilin	g Notes			

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

FASTENERS AND WELDING:

direction of the wire, etc.)

- 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 not applicable.
- 4.03 Power-Actuated Fasteners shall be not applicable.
- 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.

Basis Document: DSA IR 25-2.13					Sheet No:
Sheet Title:	 : .	rev.	· (09-21-15	
Ceiling 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.
- 7. 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 Docum	nent: DSA	IR 25-2.13			Sheet No:
Sheet Title:			rev.	09-21-15	
	Ceiling	Notes			- 1.04

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

8. OTHER DEVICES WITHIN THE CEILING:

Basis Document: DSA IR 25-2.13

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 from the structure above.

DESIGN & CONSULTING & PROJECT 1 1777 BERNARDO PLAZA COURT, SUITE 105 SAM DIEGO, CA 92126 WWW.RSTAVARES.DOM

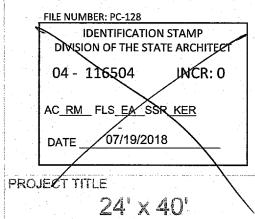
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ORIGINAL PC STATE AGENCY APPROVAL



EXPANDABLE TO 120' x 40'

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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118918 ACS___FLS___SS__ DATE NOV - 7 2010

Revision Schedule Description

CEILING NOTES

PROJECT NUMBER

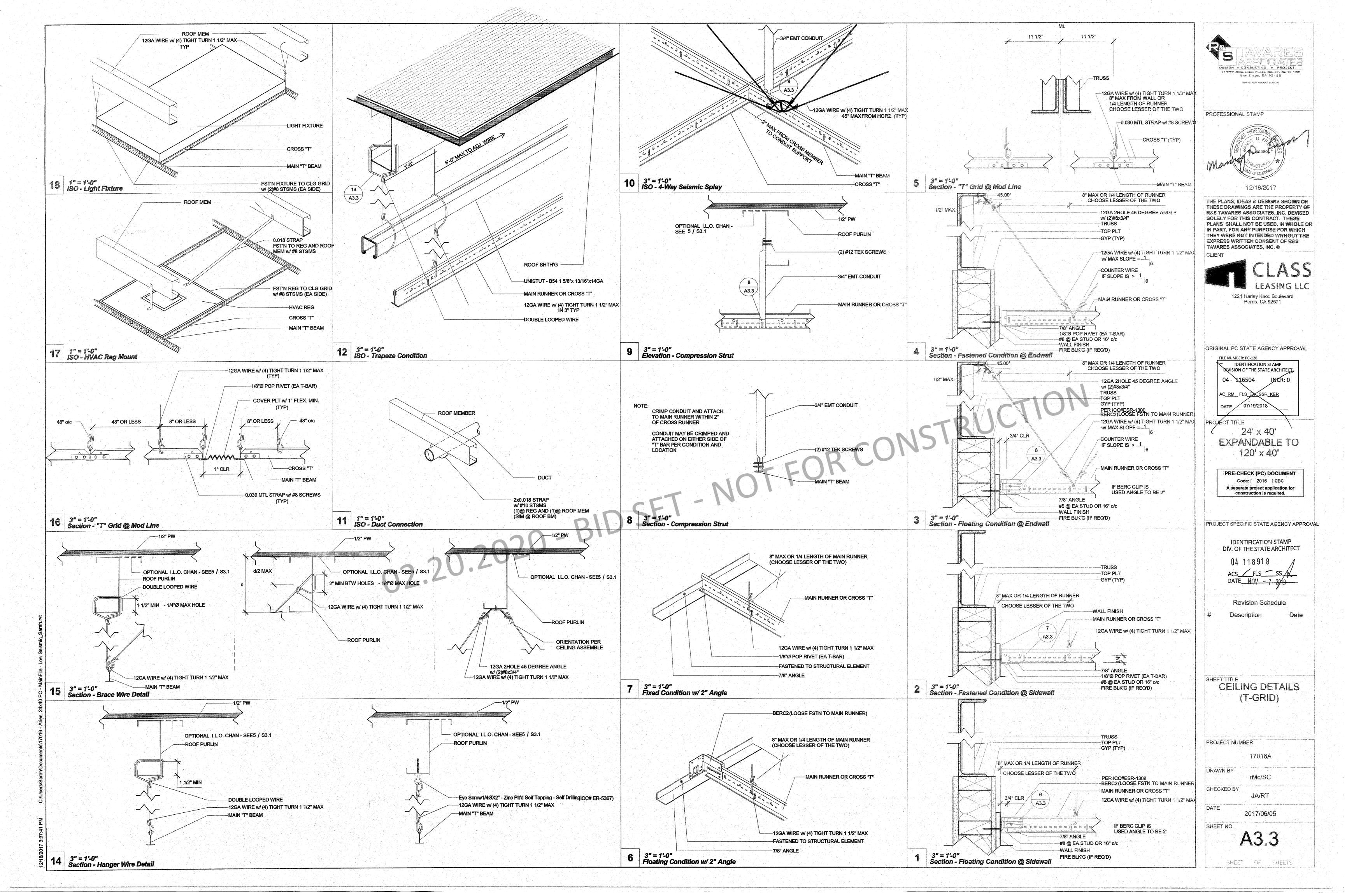
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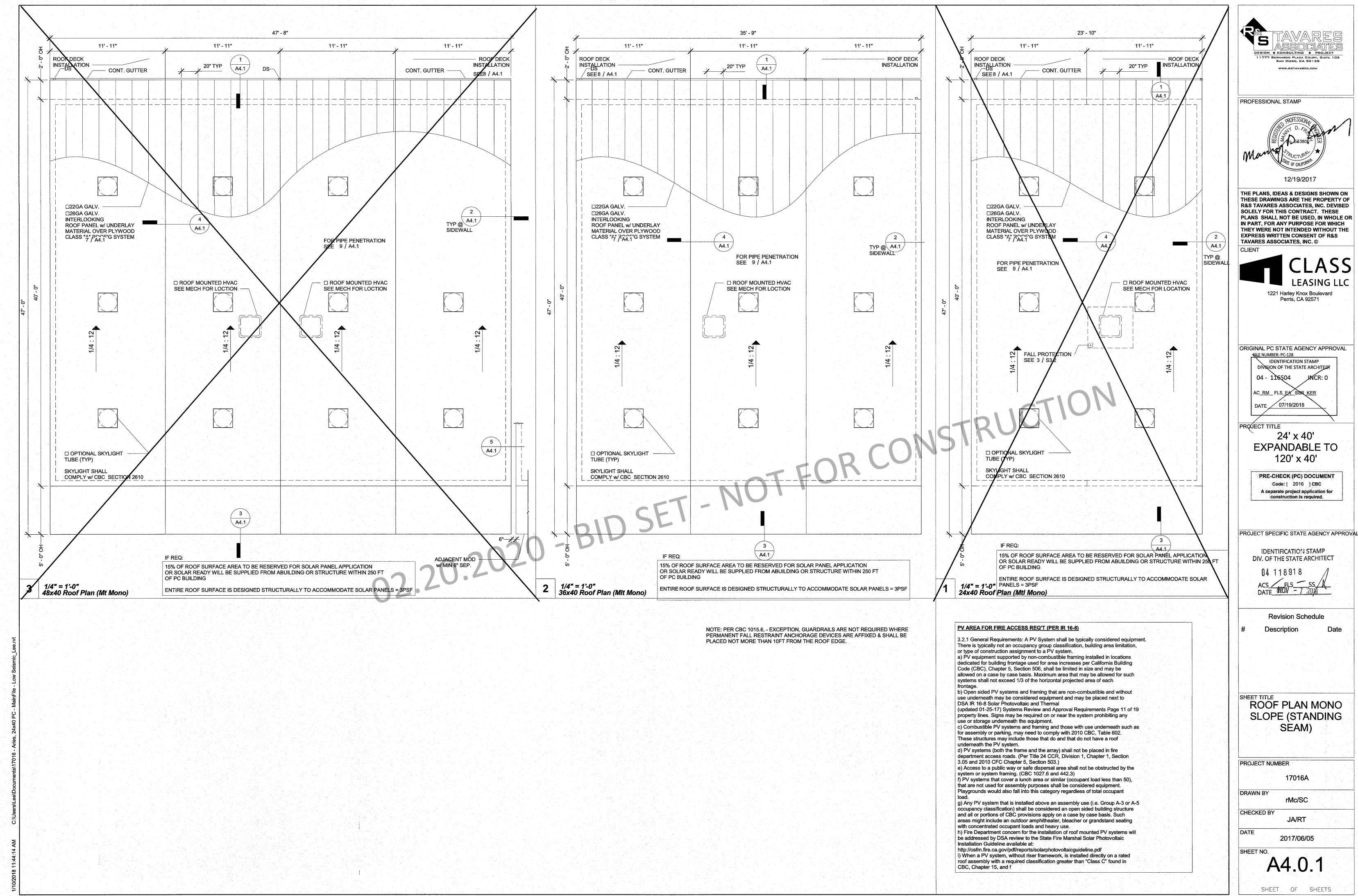
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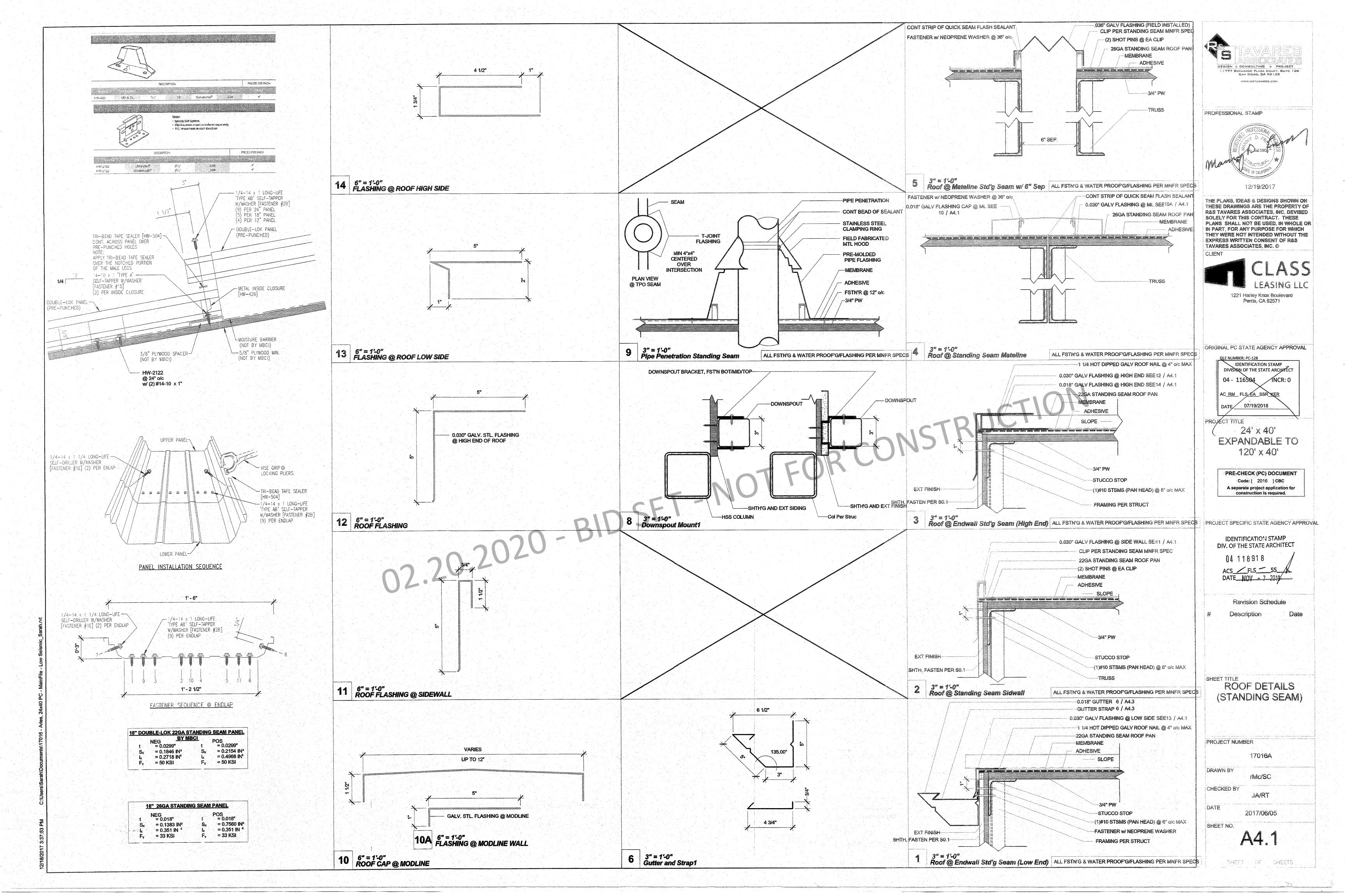
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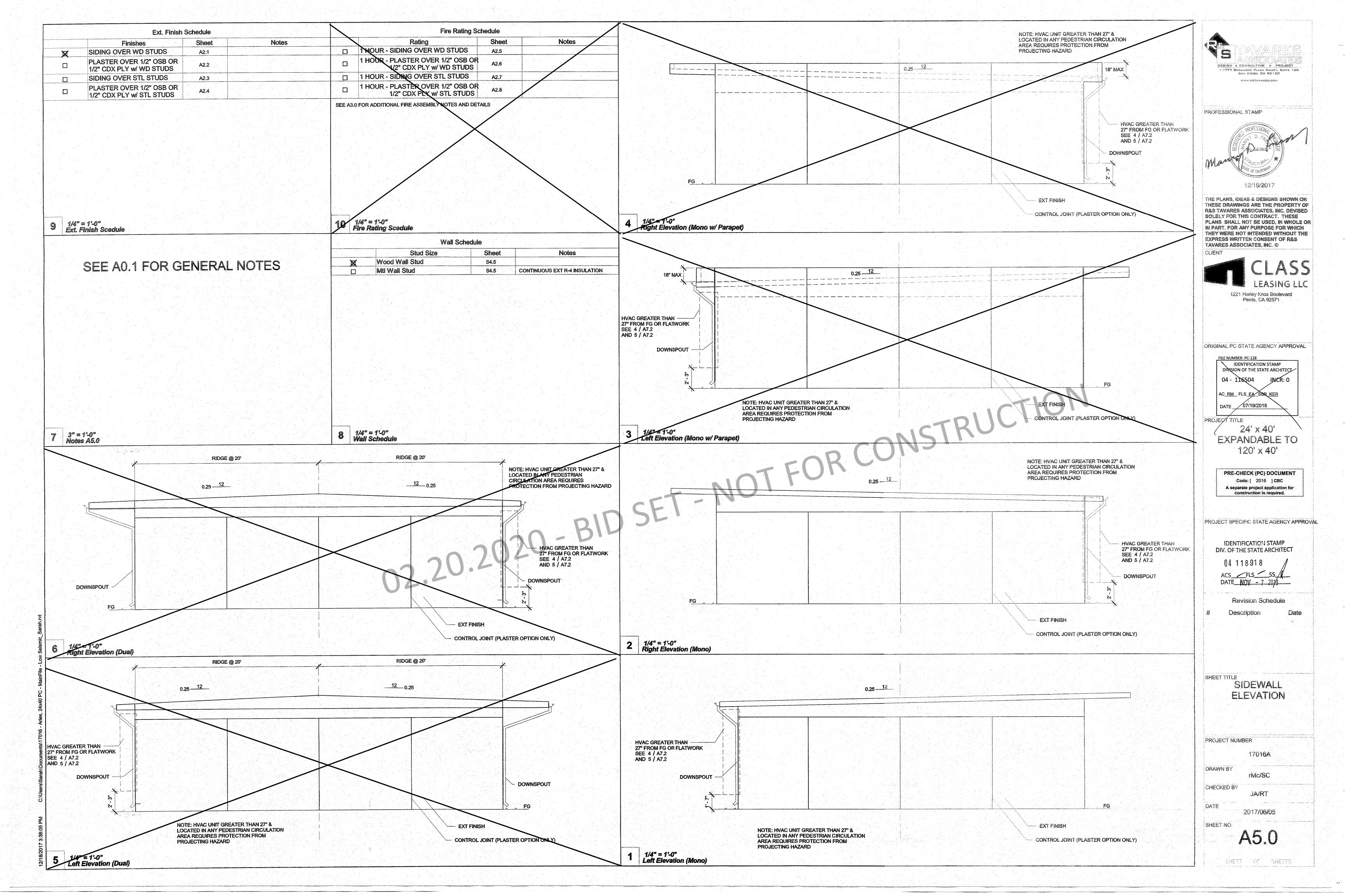
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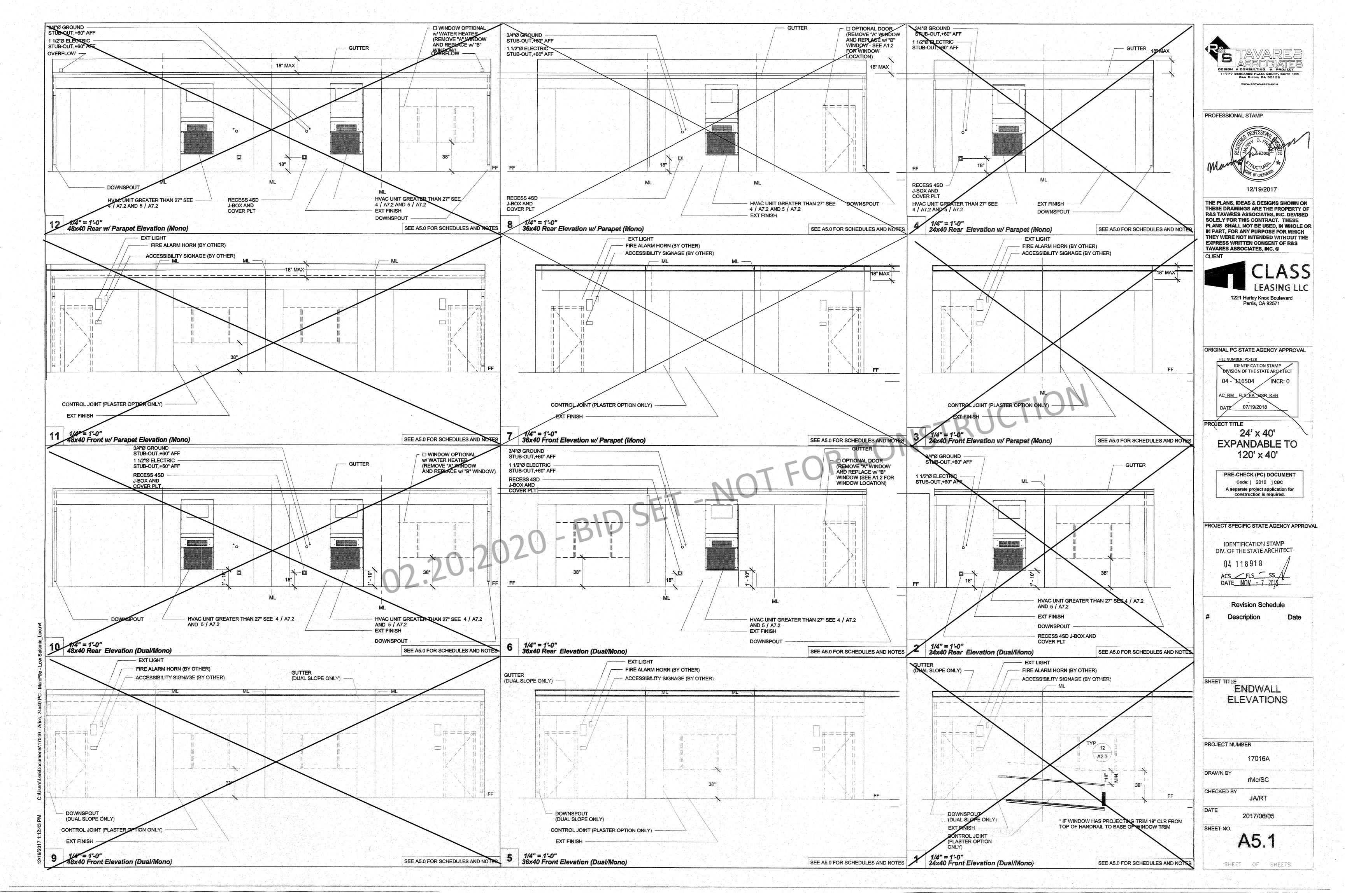
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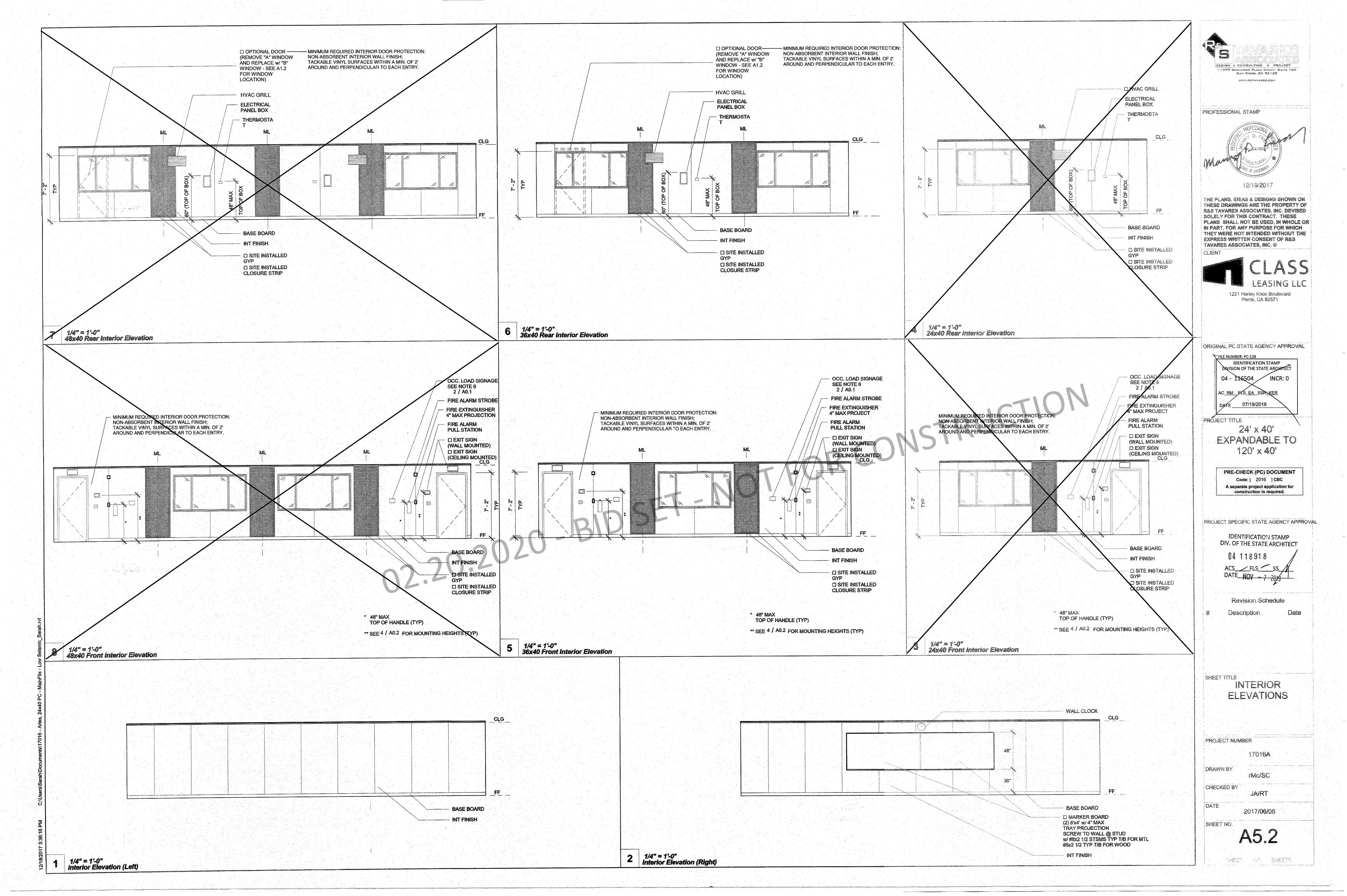


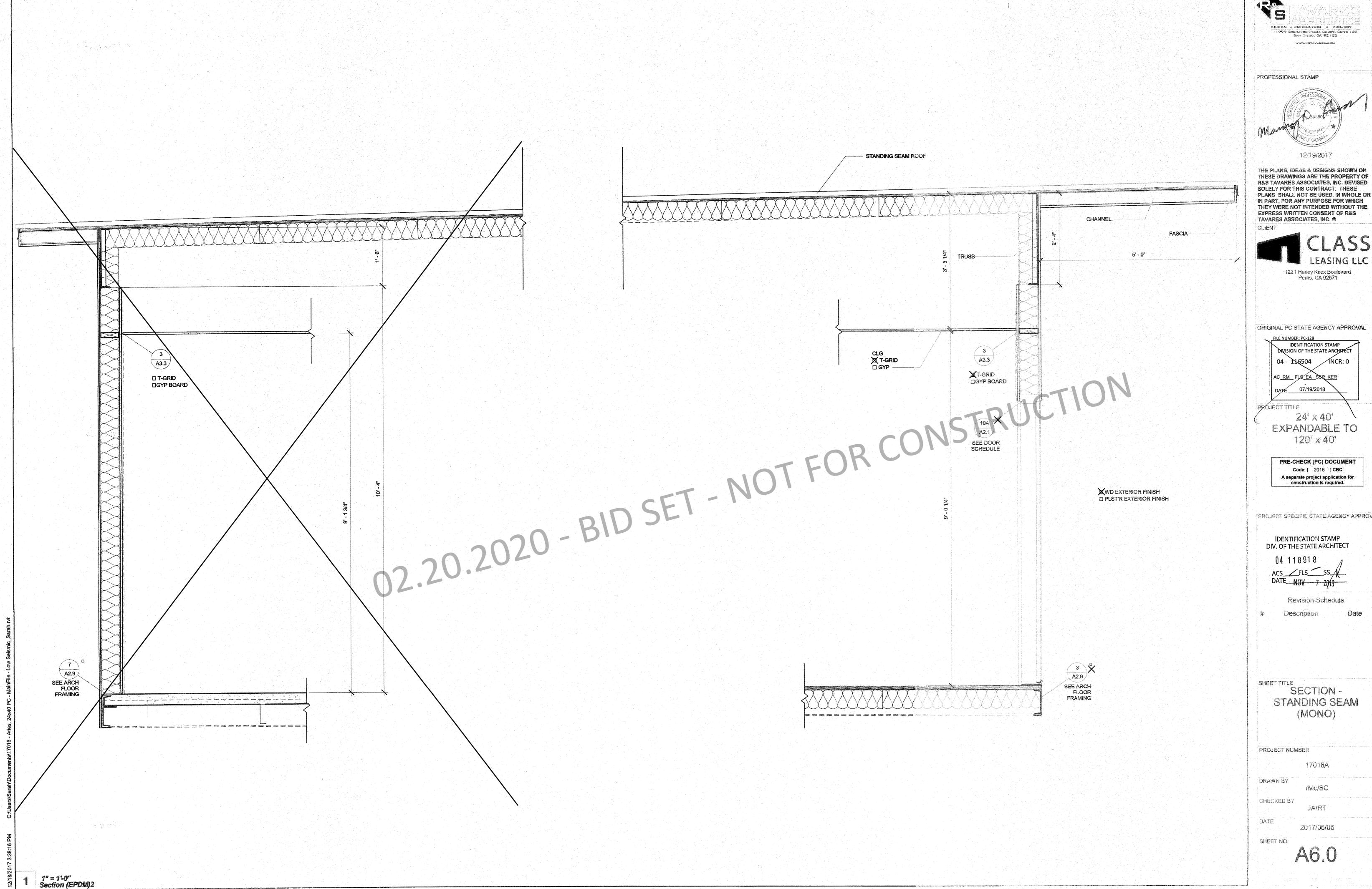




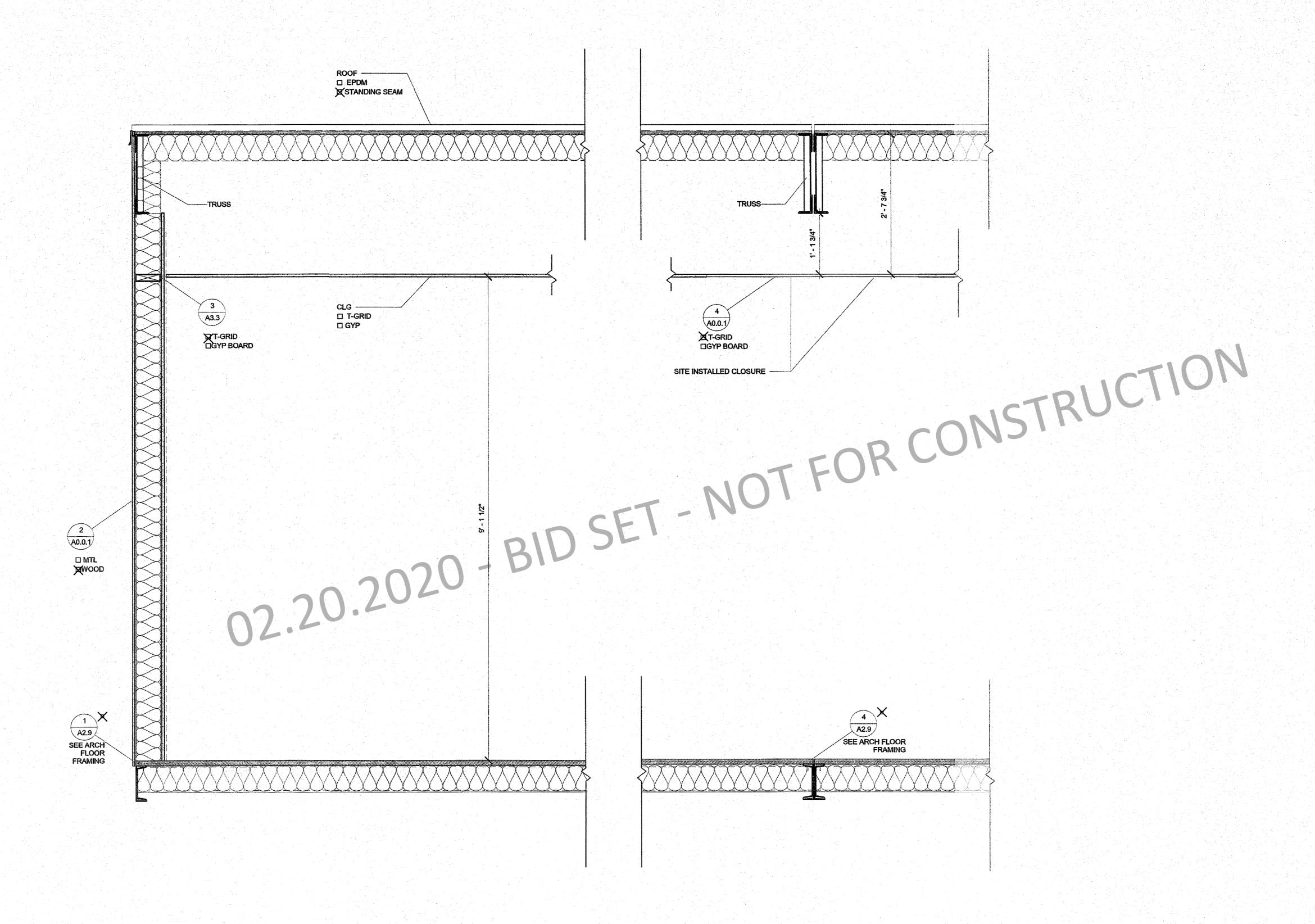








PROJECT SPECIFIC STATE AGENCY APPROVAL





PROFESSIONAL STAMP

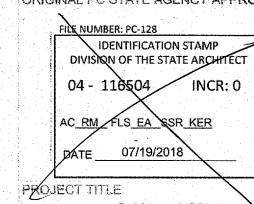


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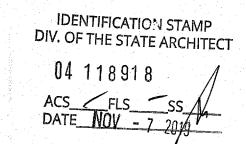
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Code: [2016] CBC

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Revision Schedule

Description

SECTION

PROJECT NUMBER

SHEET TITLE

AWN BY

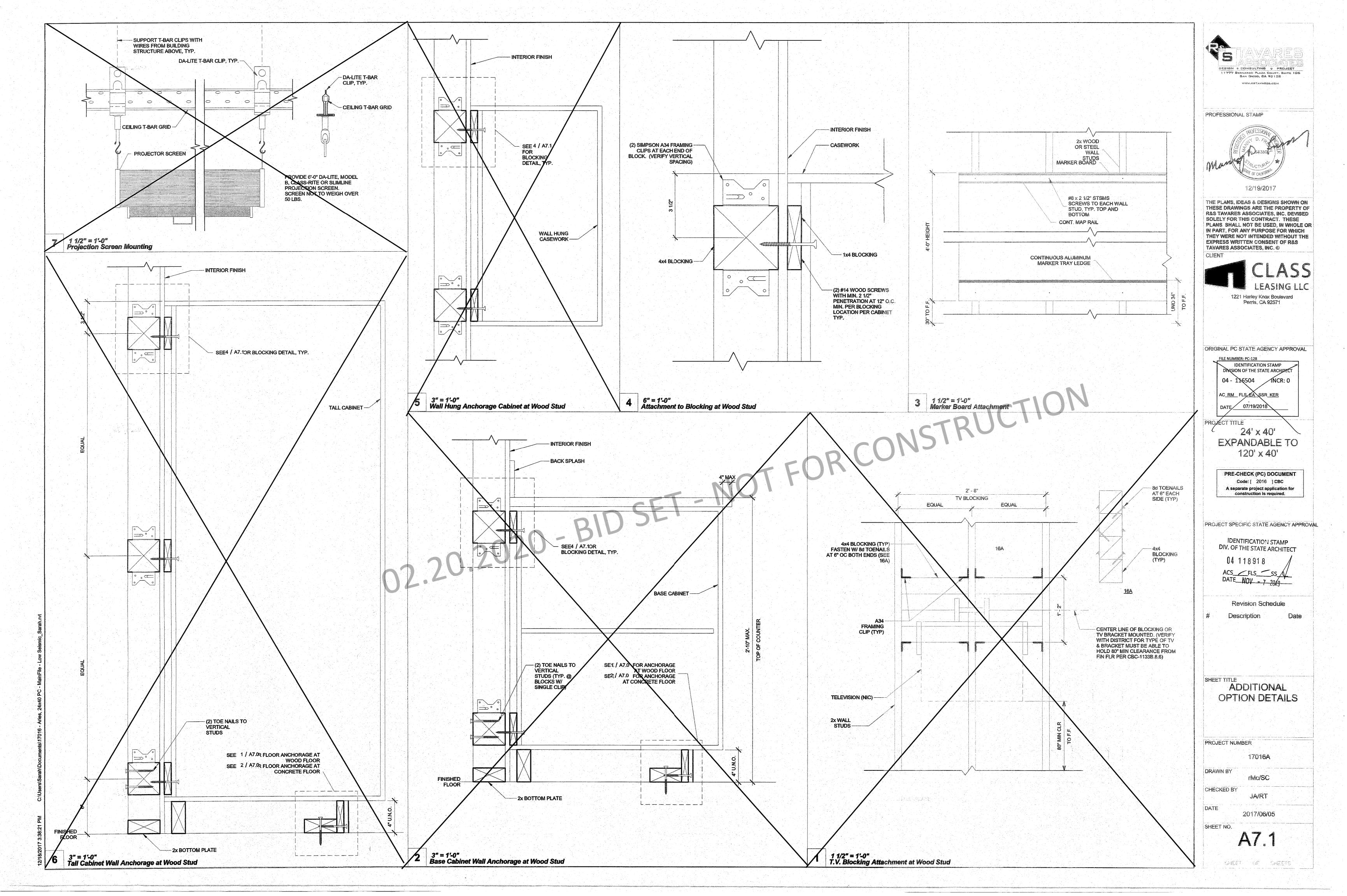
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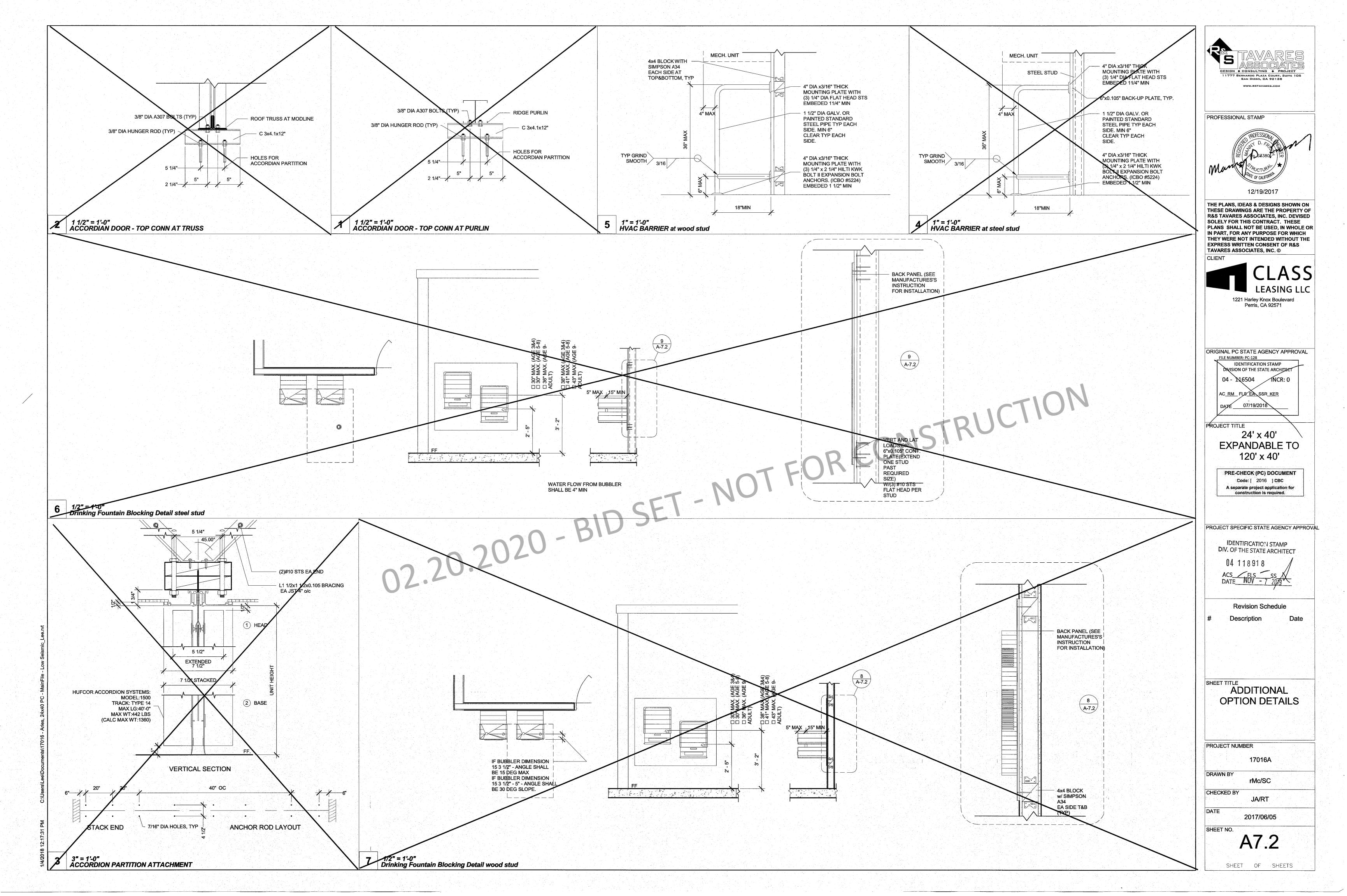
JA/RT DATE

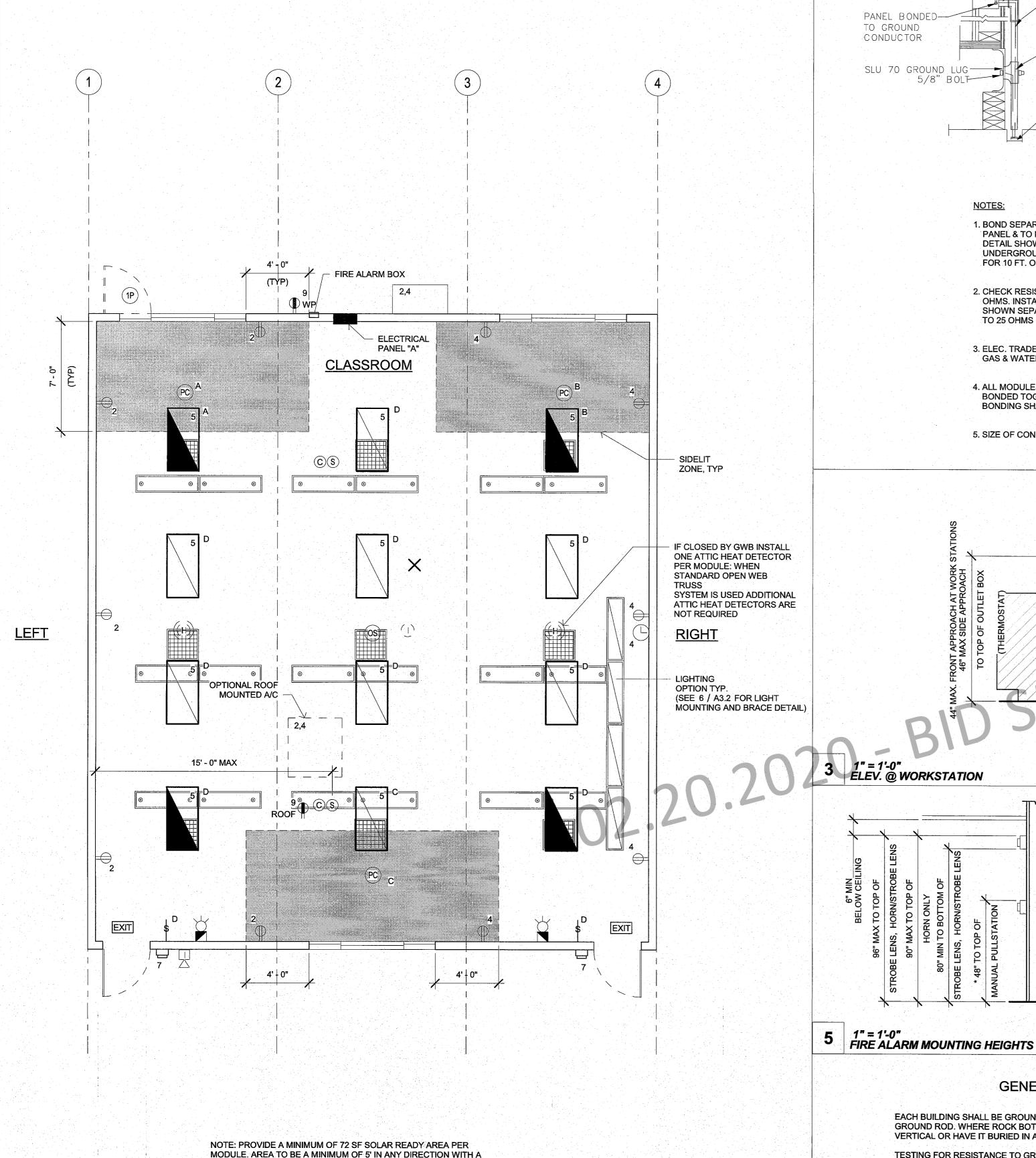
2017/06/05

SHEET NO.

A6.2







MODLINE 1/2" WP NIPPLE BY MFG ELECT PANEL -RIGID CONDUIT WITH CONDUCTOR ATTACHED PANEL BONDED TO WALL W/ 2-HOLE TO GROUND STRAPS (SITE ELECT) STEEL CHANNEL CONDUCTOR TEE CONDULET FOR TO BE SUPPLIED AND SEPARATE CONDUCTOR INSTALLED BY CLASS LEASING. GROUND, BONDED TO SLU 70 GROUND LUG-5/8" BOLT-METAL FRAME _#8 Cu WIRE TO (SITE ELECT) BOTH #14 GROUND TEKS, FIELD CONNECTED - GROUNDING CLAMP

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

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

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. 2. 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

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 CO	NDUCTOR	₹
SIZE		TYPE	1/2" C	3/4" C:MI	П1"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

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

1" = 1'-0" MOUNTING ELEV.

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 3/4" 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

JUNCTION BOX SIZE TABLE

	вох	SIZE	CH IN	MAX	(NO. OF	CONDUC	TORS
	DUA	OIZE	CU. IN.	#12	#10	#8	#6
ġ	4SS	1 1/4"x4" SQ	18.0	8	7	6	0
i.	4S	1 1/2"x4" SQ	21.0	9	8	7	0
	4SD	2 1/8"x4" SQ	30.3	13	12	10	6
Ú	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
100	5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
- 3	664	4"x6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

PROFESSIONAL STAMP



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

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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118918 ACS___FLS___SS_ DATE NOV - 7 20/9

Revision Schedule

Description

ELECTRICAL PLAN 36x40

PROJECT NUMBER

17016A DRAWN BY rMc/SC CHECKED BY

JA/RT DATE 2017/06/05

SHEET NO. E1.2

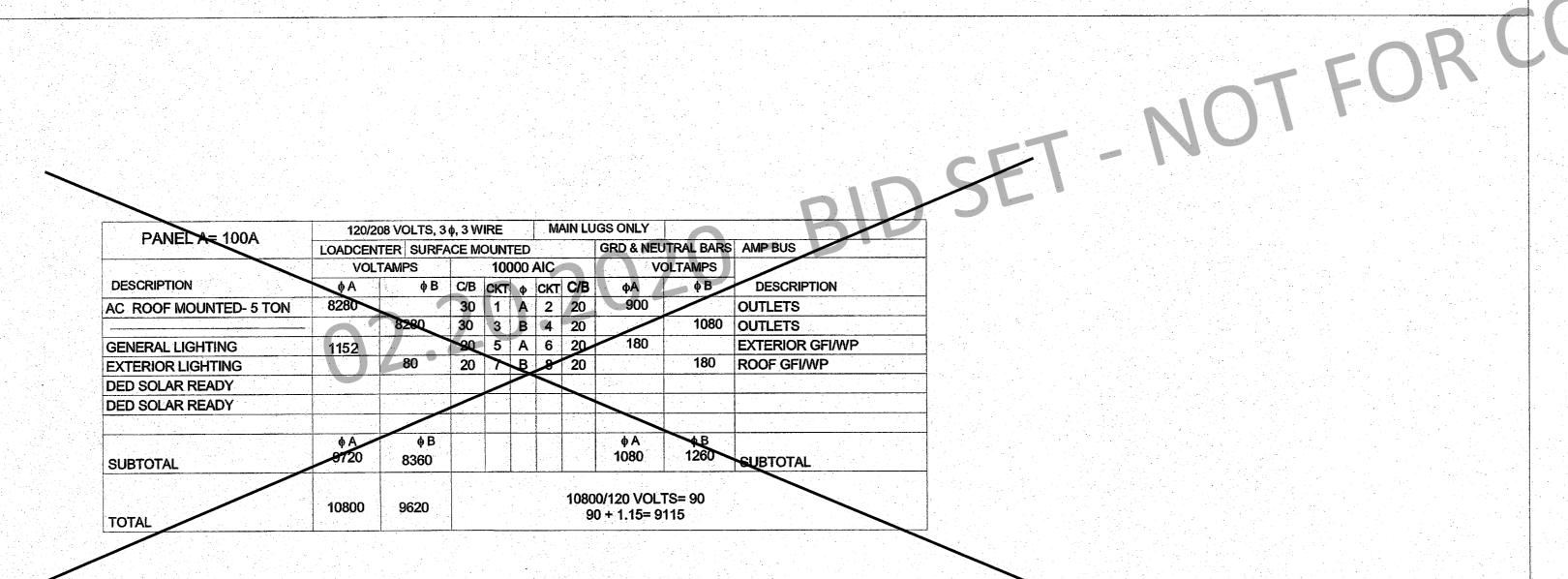
SHEET OF SHEETS

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

MINIMUM SPACE OF 80 SF PER BUILDING.

PANEL A= 150 A	120/2	208 VOLTS, 1	φ, 3 W	IRE	ş	M/	AIN LU	JGS ONLY		
I WALL WE LOO W	LOADCEN	ITER SURFA	CE M	TNUC	ED			GRD & NE	JTRAL BARS	AMP BUS
	VOL	TAMPS		100	000	AIC		V	OLTAMPS	
DESCRIPTION	φA	φB	C/B	CKT	φ	СКТ	C/B	φА	φB	DESCRIPTION
AC WALL MOUNTED- 5 TON	7705		30	1	Α	2	20	900		OUTLETS
		7705	30	3	В	4	20		1080	OUTLETS
GENERAL LIGHTING	1152		20	5	Α	6	20	180		EXTERIOR GFI/WP
EXTERIOR LIGHTING		80	20	7	В	8	20		180	ROOF GFI/WP
DED SOLAR READY					.:'					
DED SOLAR READY										
SUBTOTAL	φ A 9145	ф В 7785						ф А 1080	ф В 1260	SUBTOTAL
	10225	9045						25/120 VOL 1.21+ 1.7= 8		

2 1" = 1'-0" ELECTRICAL PANEL WALL MOUNTED



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

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 SACK UP PARTIELY

MOUNT AT +93" AFF

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

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
MOUNTED
AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM)

LESS THAN 100 SQ FT W/ (1) CIRCUIT.

<u>ULTRASONIC CEILING OCCUPANCY SENSOR.</u>

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

OS

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

CARBON MONOXIDE PER CBC SECTION 915

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.

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

show tomply a LEC 700.20

DESIGN & CONSULTING & PROJECT
11777 BERNARDO PLAZA COURT, SUITE 105
SAN DIEGG, 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. ®

CLASS LEASING LLC

1221 Harley Knox Boulevard

Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL
FILE NUMBER: PC-128

IDENTIFICATION STAMP
BLVISION OF THE STATE ARCHITECT

04 - 116504 INCR: 0

AC RM FLS EA SSR KER

DATE 07/19/2018

PROJECT TITLE

24' × 40'

EXPANDABLE TO

120' × 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

TO BOTTOM

OF BOX

ACS__FLS__SS_/\ DATE_NOV - 7 2019

Description Da

Revision Schedule

ELECTRICAL
SCHEDULE 36x40

PROJECT NUMBER

DRAWN BY

17016A

rMc/SC CHECKED BY JA/RT

DATE 2017/06/05

SHEET NO.

E1.3

SHEET FOR SHEETS

1" = 1'-0" ELECTRICAL PANEL_ROOF MOUNTED

TE OF CALIFORNIA DOOR LIGHTING C-NRCC-LTI-01-E (Revised 04/16) ERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NDCC LTL03.5	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE door Lighting	NRCC-LTI-01-E (Page 1 of 6)	CERTIFICATE OF COMPLIANCE Indoor Lighting	NRCC-LTI-01-E (Page 2 of 6)	CERTIFICATE OF COMPLIANCE Indoor Lighting	NRCC-LTI-01-I (Page 3 of 6
oject Name: 120'x40' (PC 04-116504)	Date Prepared: 06/25/2018	Project Name: 120'x40' (PC 04-116504)	Date Prepared: 06/25/2018	Project Name: 120'x40' (PC 04-116504)	Date Prepared: 06/25/2018
. General Information imate Zone: Conditioned Floor Area: 4800		C. Summary of Allowed Lighting Power Conditioned and Unconditioned space Lighting must not be combined for compliance		E. Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain	n copies and verify forms are completed and signed.)
Unconditioned Floor Area:		Indoor Lighting Power for Conditioned Spaces Watts	Indoor Lighting Power for Unconditioned Spaces Watts	YES NO FORM/TITLE	
	☐ High-Rise Residential ☐ Hotel/Motel ☐ Conditioned Spaces ☐ Unconditioned Spaces	Installed Lighting O1 NRCC-LTI-01-E, Table H, page 5 + 3840	Installed Lighting NRCC-LTI-01-E, Table H, page 5 +	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automa NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	atic time switch controls.
nase of Construction: New Construction	Addition Alteration	O2 Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 +	MICC-LIP-OI-L, Table 11, page 3 1	NRCA-LTI-04-A - Must be submitted for demand responsive lighting cor	the control of the co
	Area Category	Minus Lighting Control Credits 711	Minus Lighting Control Credits	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustance.	tment factor (PAF).
oject Address:		NRCC-LTI-02-E, page 2 Adjusted Installed Lighting Power (accord to be seen as 2 and 2 an	NRCC-LTI-02-E, page 2 Adjusted Installed Lighting Power = 0	A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces.	Installed Lighting Power listed on this Lighting Schedule is only
Lighting Compliance Documents (select yes for each document included in the second of		(row 1 plus row 2 minus row 3)	(row 1 minus row 3)	for: CONDITIONED SPACE UNCONDITIONED SPACE	
YES NO COMP. DOC. TITLE	nce documents, refer to the Nonresidential Manual published by the California Energy Commission.	Allowed Lighting Power A	Allowed Lighting Power	F. Indoor Lighting Schedule and Field Inspection Energy Checklist	
 NRCC-LTI-01-E Certificate of Compliance. All Pa NRCC-LTI-02-E Lighting Controls, Certificate of C 	Pages required on plans for all submittals. Compliance, and PAF Calculation. All Pages required on plans for all submittals.	05 Alterations with replacement luminaires that have at least 5280 Alteration	itioned NRCC-LTI-03-E, page 1 ns with replacement luminaires that have at least	☐ The actual indoor lighting power listed on the next 2 pages includes all installed permand ☐ When Complete Building Method is used for compliance, list each different type of lumin	
NRCC-LTI-03-E Indoor Lighting Power Allowance			r power compared to the original existing luminaires, I use the allowed wattage from NRCC-LTI-06, page 2	 ☐ When Area Category Method or Tailored Method is used for compliance, list each different of the compliance of the complian	
 ○ NRCC-LTI-04-E Tailored Method Worksheets ○ NRCC-LTI-05-E Line Voltage Track Lighting Worksheets 	ksheets Assertion of the control of	D. Declaration of Required Certificates of Installation		Also include track lighting in schedule, and submit the track lighting compliance document	2 (MACC-E11-03-E) WHEIT IIIIC-VOITage track lighting is installed.
○ NRCC-LTI-06-E Indoor Lighting Existing Condition	ns in the first term of the fi	Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms a	re completed and signed.)		
		YES NO Form/Title NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector		
		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy M			
	그의 강물을 하는 사람들은 소리를 보고 있는 것이 되었다. 그 이번 경기 등에 되었다. 하는 사람들은 기술을 하는 것이 되었다. 그 사람들은 사람들은 것이 되었다.	to be recognized for compliance. NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current l	limiter or for a supplementary		
		overcurrent protection panel used to energize only line-voltage track lighting, to be	e recognized for compliance.		
		NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditoriu conference room, a multipurpose room, or a theater to be recognized for complian	nce.		
		NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized in NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video confe	erencing studio to be recognized for		
		compliance.	Field Inspector		
A Building Energy Efficiency Standards - 2016 Nonresidential Compliance ATE OF CALIFORNIA	April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA	April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	April 2016
IDOOR LIGHTING C-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTI-01-E	INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16)	
ndoor Lighting	(Page 4 of 6)	CERTIFICATE OF COMPLIANCE Indoor Lighting	NRCC-LTI-01-E (Page 5 of 6)	CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTI-01
roject Name: 120'x40' (PC 04-116504)	Date Prepared: 06/25/2018	Project Name: 120'x40' (PC 04-116504)	Date Prepared: 06/25/2018	Indoor Lighting Project Namao' (PC 04-116504)	(Page 6 of Date Prepared: 06/25/2018
6. Installed Portable Luminaires in Offices – Exception to Section 140		A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Ligh	phting Power listed on this Lighting Schedule is only for:	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
This section shall be filled out ONLY for portable luminaires in offices (As de this compliance document.	lefined in §100.1). All other planned portable luminaires shall be documented on next page of	✓ CONDITIONED SPACE UNCONDITIONED SPACE		I certify that this Certificate of Compliance documentation is accurate and complete.	entation Author Signature:
This section is used to determine if greater than 0.3 watts of portable lighting	"你我们,是你我看到她的一个人的,是什么一点的。""我们,我们就是这个人的,我们就会会会会会。""我们就是这个人的。""我们就是这个人,我们就是这个人,我们就是	H. Indoor Lighting Schedule and Field Inspection Energy Checklist			re Date: 06/25/2018
shall not be traded between offices having different lighting systems.	cal (having the same general and portable lighting) may be grouped together. This allowance	Luminaire Schedule Installed Watts 01 02 03 04 05	Location Field Inspector ¹ 06 07 08	Address: 11777 BERNARDO PLAZA CT. SUITE 105	tification Identification (if applicable):
Office Portable Luminaire Schedule Office Installed Po	Portable Luminaire W/ft ² Office Location Field Inspector 05 06 07 08 09 10	How wattage was	g	City/State/Zip: SAN DIEGO, CA 92128 RESPONSIBLE PERSON'S DECLARATION STATEMENT	858-444-3344 EXT 1801
Installed	If G06 ≤ 0.3,		this are 5)	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.	
Complete Luminaire Description luminaire watts in	per zero; (G05 x G07) Identify Office area in which these portable	Complete Luminaire Description HE Complete Luminaire Description HE Complete Luminaire Description HE Complete Luminaire Description HE Complete Luminaire Description	tal Institute So	 I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the (responsible designer). 	building design or system design identified on this Certificate of Compliance
(i.e., LED, under cabinet, furniture mounted Watts per this office	foot If G06 > 0.3, luminaires are installed	F32T8, one dimmable electronic ballast)	The seluminaires are installed Pass Fail 3840 O O	3. The energy features and performance specifications, materials, components, and manufactured of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Re	
direct/indirect) Luminaire (G02 x G03) 0	0 0 0	5-1 3-EAW /324/10 90 E	0 0 0	4. The building design features or system design features identified on this Certificate of Compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement ages	e are consistent with the information provided on other applicable compliance
0 0				 I will ensure that a completed signed copy of this Certificate of Compliance shall be made available enforcement agency for all applicable inspections. I understand that a completed signed copy of the 	this Certificate of Compliance is required to be included with the documentation the
0			0 0 0	builder provides to the building owner at occupancy. Responsible Designer Name: MANNY D. FRISCH Response	sible Designer Signature: Way D. Fust H.
	Enter sum total of all pages into NRCC-LTI-		0 O O O O	R&S TAVARES ASSOCIATES, INC.	06/25/2018
Total installed portable luminaire watts that are gr	greater than 0.3 W/ft² per office: 01-E; Page 2				S3380 858 444 3344 EXT 1810
	- 발발하고, '성명' '보고한 도로한 '대통한 명임' 원인원'에 되었다. 그는 말을 하는 것 같다. 	INSTALLED WATTS PAGE TOTAL:	3160 Enter sum total of all pages into NRCC-LTI-01-E; Page 2	SAN DIEGU, CA 91218	58 444 3344 EXT 1810
	하는 이번 보면 되었다. 이번에 가려졌다. 이번 발에 되었는데 하다 하는 것으로 하는 것이다. 하는 것은 것들은 보는 이번에 하는 것을 하는 것이다. 이번에 되는 것이다. 이번에 되는 것이다.		INICC-LIPOI-L, Fage 2		마이트 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					- 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1 - 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1일 : 19 1
A Building Energy Efficiency Standards - 2016 Nonresidential Compliance	April 2016			이 이 그들이 된 이 이 그들은 그리고 있는 것으로 하는 것으로 함께 되었다. 현기의 함께 모른 보 <u>고 있는 것으로 보고 있는</u> 이 보고 하는 것으로 보고 있는 것으로 하는 것으로 보고 있다.	
TATE OF CALIFORNIA NDOOR LIGHTING - LIGHTING CONTROLS		CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS	April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance STATE OF CALIFORNIA	April 2016
EC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTI-02-	CEC-NRCC-LTI-02-E (Revised 01/16)	CALIFORNIA ENERGY COMMISSION NRCC-LTI-02-E	INDOOR LIGHTING – LIGHTING CONTROLS CEC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NAMES OF THE CO
Indoor Lighting - Lighting Controls	(Page 1 of 3	Indoor Lighting - Lighting Controls	(Page 2 of 3)	CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls	NRCC-LTI-02 (Page 3 of
Project Name: 120'X40' (PC 04-116504)		Project Name: 120'X40' (PC 04-116504)	Date Prepared: 06/25/2018	Project Name: 120'X40' (PC 04-116504)	Date Prepared: 06/25/2018
A. Mandatory Lighting Control Declaration Statements (Indicat	te if the measure applies by checking yes or no below.)	A separate document must be filled out for Conditioned and Unconditioned Spaces. The	is page is used only for the following:		- (1995년 - 1995년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 1997년 - 19
YES NO Control Requirements		✓ CONDITIONED SPACES ☐ UNCONDITIONED SPACES		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete.	
	rol devices which are certified to the Energy Commission according to the Title 20 Appliance	B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, an		Documentation Author Name: RALPH M. TAVARES	nentation Author Signature: Jau Line Date:
Lighting shall be controlled by a lighting control system or e	energy management control system in accordance with §110.9. An Installation Certificate		PAF Credit Calculation 2		ortification Identification (if applicable):
shall be submitted in accordance with Section 130.4(b).		Standards Compl			858 444 3344 EXT 1801
One or more Track Lighting Integral Current Limiters shall be sub-	be installed which have been certified to the Energy Commission in accordance with §110.9 and bmitted in accordance with Section 130.4(b).	(✓ all that apply, or Lighting Control Schedule	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	RESPONSIBLE PERSON'S DECLARATION STATEMENT	
A Track Lighting Supplementary Overcurrent Protection Par Installation Certificate shall be installed in accordance with	anel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an h Section 130.4(b).	01 02 03 04 05 06 07		 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 responsibility for th 	e building design or system design identified on this Cartificate of Compliance
All lighting controls and equipment shall comply with the a	applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's	Type/ Description of Lighting Control (i.e.: occupancy sensor, # 51 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$1. S1. S1.	 (responsible designer). The energy features and performance specifications, materials, components, and manufactured 	[발명] "독특이 발전 [독특] (1942 - 그림 및 (1942 - 1942)
instructions in accordance with Section 130.1.	<u>and the first and the state of the first and the first an</u>	Location in Building automatic time switch, of 30.00 10.1 automatic daylight, Units a 50.1 automatic daylight,	Fail Pass Pass 10.6(a 30.1(e 30.1(e 5.5)	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of F 4. The building design features or system design features identified on this Certificate of Compliance	Regulations.
	ON and OFF lighting controls in accordance with Section 130.1(a).	etc)		documents, worksheets, calculations, plans and specifications submitted to the enforcement age 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available.	ency for approval with this building permit application. Die with the building permit(s) issued for the building, and made available to the
and special effects lighting shall each be separately control	ner lighting systems in an area. Floor and wall display, window display, case display, ornamental, olled on circuits that are 20 amps or less. When track lighting is used, general, display,	CLASSROOM AUTOMATIC DAYLIGHT 10 + + + + CLASSROOM OCCUPANCY SENSOR 3 + + + +		enforcement agency for all applicable inspections. I understand that a completed signed copy of builder provides to the building owner at occupancy.	this Certificate of Compliance is required to be included with the documentation the
ornamental, and special effects lighting shall each be separ	or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the		0 0 0	MANNY D. FRISCH H. B. H. C. C. C. C. C. C. C. C. C. C. C. C. C.	nsible Designer Signature: Mumy D. Frankling
multi-level lighting control requirements in accordance with	사이트 그는 사람들이 가는 바다 그림을 가지 않는데 그들은 사람들이 되었다. 그 사람들이 가는 사람들이 가지 않는데 그렇게 되었다.				igned: 06/25/2018 E: S3380
All installed indoor lighting shall be equipped with controls	is that meet the applicable Shut-OFF control requirements in Section 130.1(c).		0 0 0		858 444 3344 EXT 1810
Lighting in all Daylit Zones shall be controlled in accordance.	ce with the requirements in Section 130.1(d) and daylit zones are shown on the plans.		Credit PAGE TOTAL (Sum of Column 13): 711		
	shall be capable of being automatically reduced in response to a Demand Responsive Signal in	IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for	r all pages HERE (Sum of all Column 13): Enter Control Credit total		APPROVED
accordance with Section 130.1(e).	도 없는 경우 어린 모든 이 상태를 보고 있다. 그렇게 된 아무리를 하고 있는 것이 하는 사람들이 없다.	[1] 그리다 그런 하고 있는 말을 하는 사람들이 되었다. 그런 하는 사람들이 살아 들어 들어 들어 되었다.	into NRCC-LTI-01-F: Page	보는 문화에 가는 어떤 사람들이 되었다. 그는 그는 그는 그리고 말을 보는 것이 되었다.	

1. \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive; \$140.6(d) =

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

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

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

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

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

controls, and demand responsive controls.

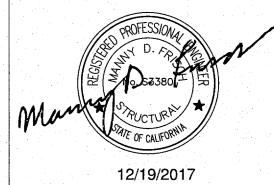
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF

into NRCC-LTI-01-E; Page

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

IONAL STAMP



IS, IDEAS & DESIGNS SHOWN ON RAWINGS ARE THE PROPERTY OF ARES ASSOCIATES, INC. DEVISED OR THIS CONTRACT. THESE HALL NOT BE USED, IN WHOLE OR FOR ANY PURPOSE FOR WHICH RE NOT INTENDED WITHOUT THE WRITTEN CONSENT OF R&S ASSOCIATES, INC. ©



PC STATE AGENCY APPROVAL IDENTIFICATION STAMP ISION OF THE STATE ARCHITECT 07/19/2018 24' x 40' XPANDABLE TO

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

120' x 40'

SPECIFIC STATE AGENCY APPROVAL

ENTIFICATION STAMP OF THE STATE ARCHITECT 118918

Revision Schedule

0'x40' T24 CZ 16 (WALL AC)

17016A

rMc/SC

JA/RT 2018/06/26

DIVISION OF STATE ARCHITECT

HIGH PERFORMANCE SECTION

APP.#<u>04-116504</u> DATE 7-10-18

E2.1

STATE OF CALIFORNIA OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION		STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CEC-NRCC-LTO-02-E (Revised 08/16)
CERTIFICATE OF COMPLIANCE Outdoor Lighting (Page 1 of 4)	CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E		CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls
Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018	Outdoor Lighting (Page 2 of 4) Project Name: 120'x40' (PC 04-116504) Date Prepared: 03/05/2018		Project Name: 120'x40' (PC 04-116504)
A. General Information			
Project Address: Total Illuminated Hardscape Area:	G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b) 01 02		A. Mandatory Outdoor Lighting Control Declaration Statements
Phase of Construction: New Construction Addition Alteration	Name or Symbol Description of exempt luminaire in accordance with the exemptions		Check all that apply:
Outdoor Lighting Zone (LZ) LZ-1			Lighting shall be controlled by self-contained lighting control devices which are certified to the Regulations in accordance with §110.9(a).
I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114			Lighting shall be controlled by a lighting control system or energy management control system in accordance with \$120.4(b)
			in accordance with §130.4(b). All lighting controls and equipment shall comply with the applicable requirements in §110.9 a
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 Nonresidential Manual	H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)		accordance with §130.0(d).
published by the California Energy Commission.	01 02		Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirement All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the requirement of the section 100.1(b), shall meet the section 100.1(b), shall m
✓ NRCC-LTO-01-E Certificate of Compliance ✓ NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance	Name or Symbol Description of exempt luminaire in accordance with the exemptions		All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in a Uplight and Glare requirements in accordance with Section 130.2(b)
✓ NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance □ NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance		기가 하시고 있는데 보다 보고 있다. 그 이 가는 이 가는 그 것도 있는데 되었다. 그 것이다. 1992년 대한 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982년 - 1982	All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical ti
□ NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance			in accordance with Section 130.2(c)1. All installed outdoor lighting shall be circuited and independently controlled from other elect
C. Summary of Allowed Outdoor Lighting Power Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Watts			accordance with Section 130.2(c)2. All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less all
01			controls in accordance with Section 130.2(c)3.
Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.			For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance wit For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting
Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01) 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 shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance
OZ Sum rotal in Strategy Vattage from NRCC-E10-01-E, page 5.			applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.
D. Declaration of Required Installation Certificates Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and			
signed.)			
✓ NRCI-LTO-01-E - Must be submitted for all buildings			
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.			
			도 하는 경기에 가는 모든 사람들은 모든 보는 사람들이 되는 것이 되었다. 되고, 사람들은 문제가 되었다. 그런 사람들이 되는 것이 되는 것이 되었다.
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 documents are completed			CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance
and signed.) Image: A control of the submitted for outdoor lighting controls. Image: Field Inspector			STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS
	보는 사람들이 사용하게 되었다. 이 사람들이 되었다. 그는 사람들은 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 사람들이 있는 사람들이 사람들이 되었다. 그는 사람들이 사람들이 사람들이 되었다. 그 사람들이 사람들이 되었다.		CEC-NRCC-LTO-02-E (Revised 08/16) CERTIFICATE OF COMPLIANCE
F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7 01 02	는 사용을 하는 것을 하는 것을 받는 것이 없는 것을 하는 것이 되었다. 그런 것이 되는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것 참 하는 것이 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없		Outdoor Lighting Controls Project Name: 120'x40' (PC 04-116504)
Name or Symbol Description of exempt luminaire in accordance with the exemptions			120,440 (FC 04-110304)
	다는 사람들이 되었다. 그는 10년 1일 시간에 가는 10년 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일 1일	도움이 한다면 되는 것이 되는 생활이 하십시아 그 등 하는 말이 되었다. 하였다. 용사 그들은 이 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.	B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklis
	n de la cilia de la cilia de la colonia br>El decimiento de la colonia de la colonia de la colonia de la colonia de la colonia de la colonia de la coloni		
			Outdoor Lighting Control Schedule
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 STATE OF CALIFORNIA	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016		
OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16)	STATE OF CALIFORNIA OUTDOOR LIGHTING CALIFORNIA ENERGY COMMISSION CEC-NRCC-LTO-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E	01 02 03
			I IVNE/ Description of Lighting Control (Le.)
Outdoor Lighting Project Name: 120'x40' (PC 04-116504) Date Prep	(Page 3 of 4) Outdoor Lighting Project Name: 120'x40' (PC 04-116504)	(Page 4 of 4) Date Prepared: 03/05/2018	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor #
Project Name: 120'x40' (PC 04-116504) Date Prep	Project Name: 120'x40' (PC 04-116504)		Location and Application of Luminaires Being outdoor motion sensor, outdoor photocontrol, outdoor astronomical time- switch control, automatic scheduling Units
Project Name: 120'x40' (PC 04-116504) Date Prep.	Project Name: 120'x40' (PC 04-116504) DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. Licertify that this Certificate of Compliance documentation is accurate and complete.	Date Prepared: 03/05/2018	Location and Application of Luminaires Being Controlled Outdoor motion sensor, outdoor photocontrol, outdoor astronomical time- switch control, automatic scheduling control, part-night outdoor lighting control)
Project Name: 120'x40' (PC 04-116504) I. Outdoor Lighting Schedule and Field Inspection Energy Checklist	Project Name: 120'x40' (PC 04-116504) DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: RALPH M. TAVARES	Date Prepared: 03/05/2018 mentation Author Signature:	Location and Application of Luminaires Being Controlled outdoor motion sensor, outdoor photocontrol, outdoor astronomical time- switch control, automatic scheduling Units
I. Outdoor Lighting Schedule and Field Inspection Energy Checklist Luminaire Schedule Installed Watts Luminaire Schedule Installed Watts Luminaire Schedule Installed Watts Local Control Cont	Project Name: 120'x40' (PC 04-116504) DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: RALPH M. TAVARES Company: R&S TAVARES ASSOCIATES, INC. Address: 11777 RERNARDO PLAZA CT. SUITE 105	Date Prepared: 03/05/2018	Location and Application of Luminaires Being Controlled Outdoor motion sensor, outdoor photocontrol, outdoor astronomical time- switch control, automatic scheduling control, part-night outdoor lighting control)
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CALIFORNIA ENERGY COMMISSION NRCC-LTO-02-E (Page 1 of 3) Date Prepared: 03/05/2018 e certified to the Energy Commission according to the Title 20 Appliance Efficiency t control system in accordance with §110.9. An Installation Certificate shall be submitted ents in §110.9 and shall be installed in accordance with the manufacturer's instructions in t the requirements in Section 110.9(b)5. rdance with Section 130.0(c), shall be controlled by a motion sensor. determined in accordance with Section 130.0(c), shall comply with astronomical time-switch control, or other control capable of automatically switching OFF om other electrical loads by an automatic scheduling control in 4 feet or less above the ground, shall be controlled with automatic lighting accordance with Section 130.2(c)4. utomatic lighting control shall be installed in accordance with Section 130.2(c)5 or the addition, or for any altered outdoor lighting controls, ce in accordance with §130.4.(a). Outdoor lighting controls shall comply with the endix NA7.8. August 2016 CALIFORNIA ENERGY COMMISSION NRCC-LTO-02-E (Page 2 of 3) Date Prepared: 03/05/2018 tion Checklist Standards Complying With 04 | 05 | 06 | 07 | 08 | 11 NRCC-LTO-02-E (Page 3 of 3) Date Prepared: 03/05/2018 120'x40' T24 CZ 16 05/2018 (WALL AC) 344 EXT 1801 ibility for the building design or system design identified on this Certificate of Compliance PROJECT NUMBER nufactured devices for the building design or system design identified on this Certificate of nia Code of Regulations. f Compliance are consistent with the information provided on other applicable compliance rcement agency for approval with this building permit application. nade available with the building permit(s) issued for the building, and made available to the DRAWN BY ned copy of this Certificate of Compliance is required to be included with the documentation the CHECKED BY

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance



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. ©



÷	ORIGINAL PC STATE AGENCY APPROV
	IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
	04 - 116504 INCR: 0
	AC RM FLS EX 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 construction is required.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118918 ACS__FLS__SS____ DATE__NOV - 7 2019

Revision Schedule

Description

17016A

rMc/SC

JA/RT DATE 2018/03/08

August 2016

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)		CALIFORNIA ENERGY COMMISSION		DRNIA ENERGY COMMISSION NRCC-ELC-01-E	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
CERTIFICATE OF COMPLIANCE Electrical Power Distribution Page of	CERTIFICATE OF COMPLIANCE Electrical Power Distribution		NRCC-ELC-01-E Page of	CERTIFICATE OF COMPLIANCE Electrical Power Distribution	Page of	Electrical Power Distribution Page	
Project Name: 120'x40' (PC 04-116504) Date Prepared: 04/24/2018	Project Name: 120'x40' (PC 04-116504)	D	ate Prepared: 04/24/2018	Project Name: 120'x40' (PC 04-116504)	04/24/2018	Project Name: 120'x40' (PC 04-116504) Date Prepared: 04/24/2018	
General Information	B. Separation of Electrical Circuits fo	r Electrical Energy Monitoring		C. Voltage Drop	Enforcement Agency	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
Project Address: Climate Zone: Conditioned Floor Area: 4800	Check all boxes below if the electrical power d	istribution system is in compliance with Section 130.5(b). neets the separation of electrical circuits for electrical ener	rgy monitoring requirement of Section	Check all boxes below if he electrical power distribution system is in compliance with Section 130.5(c).	Check that the system complies	1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: RALPH M. TAVARES Documentation Author Signature:	
NA 16 Unconditioned Floor Area:	2 130.5(b). The electrical power distribution according to TABLE 130.5-B.	systems is designed so that measurement devices can mo	onitor 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.	
Building Type:	Describe the electrical power distribution:	system installed and the compliance method chosen in me	eeting the requirement of Section 130.5(b).	connected load or outlet, do not exceed 5%.		Address: 11777 BERNARDO PLAZA CT. SUITE 105 City/State/Zip: SAN DIEGO, CA 92128 CEA/ HERS Certification Identification (if applicable): Phone: 858-444-3344 EXT 1801	
☐ Schools ☐ Relocatable Public Schools ☐ Conditioned Spaces ☐ Unconditioned Spaces	Fill out Column 1 thru 3 with the compliance in	nation. Examples of compliance methods are detailed in No	onresidential Compliance Manual Chapter 8.	☐ Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the		RESPONSIBLE PERSON'S DECLARATION STATEMENT	
Phase of Construction: New Construction Addition Alteration	General Information	Electrical Power Distribution System information and Method of compliance	Electrical Service Enforcement Rating Agency	compliance document submittal.		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.	
In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.	01	02	03 04			2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design idea on this Certificate of Compliance (responsible designer).	ntified
Document Title/Descriptions Indicate which subsection of	Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA Check that the system complies	D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles	Field Inspector	3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of	
Occument Number (include description information for Table or Schedule if it contains Page # Section 130.5 is related to the document (e.g. 130.5(a) for	IT WILL VARY DEPENDING ON CLIENT'S SITE PROJECT - RELOCATABLE PUBLIC SCHOOL	NA NA	0	Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.	Check that the system complies	Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information	
compliance information) service electrical metering)				The control is capable of automatically shutting OFF the controlled receptacles when the space is typically		provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement	
				unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates a override control that allows the controlled receptacle to remain ON for no more than 2 hours when an	n	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	
Add Row Remove Last				override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hou	rs	building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of the Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
A. Service Electrical Metering				and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(countdown)		Responsible Designer Name: MANNY D. FRISCH Responsible Designer Signature: Date Signed: Date Signed:	1
Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a). For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). Fill out				There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles		Company R&S TAVARES ASSOCIATES, INC. Address: 11777 BERNARDO PLAZA CT. SUITE 105 Date Signed: 04/24/2018 License: S3380	
Column 1 through 6 of table below.				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.		City/State/Zip: SAN DIEGO, CA 91218 Phone: 858 444 3344 EXT 1810	
For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2Pi. Fill out Column 1 through 6 of table below.				There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle.	ie 🔲		
EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneou kW demand and kWh for a utility-defined period. Fill out Column 1, 2 and 6 of table below with the compliance information.				Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	15		
Fill out 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 uncontroll receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	ed		
Electrical Service Schedule Electrical Metering Capabilities (check all that are present) Exception to Field Inspecto 01 02 03 04 05 06 07 08				For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt			
				receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off n			
Electrical Service Designation/ Live Control Historical Toria KWN per Utility metering metering	Field Inspector Notes:			longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.			
Location/Description kVA (at the time) kW rate period system complies				Receptacles that are only for the following purposes are excepted from Section 130.5(d):			
				 Receptacles specifically for refrigerators and water dispensers in kitchen areas. Receptacles located a minimum of six ft above the floor that are specifically for clocks. 			
IT WILL VARY DEPENDING ON CLIENT'S SITE PROJECT - RELOCATABLE PUBLIC 0				- Receptacles for network copiers, fax machines, A/V and data equipment other than personal computer copy rooms.	s in		
SCHOOL Remove Last				- Receptacles on circuits rated more than 20 amperes. - 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	The state of the s		
				receptacles or drcuits.			
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2010	6 Nonresidential Compliance	January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January	Jary 2016
마이크를 보면 하다. 전 마이크를 하다 하는 것이 되었다. 그는 그들은 그를 보고 있는데 그를 보면 보면 보다. 나는 사람들은 그들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람							
						이 보고 있는데 이 이 사람들은 사람들이 되었다. 그 사람들은 이 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 	
마이지 그 마이스 마음 그 그 그는 그 아이스 마음 그 사람들이 되는 것이 되는 것이 되는 것이 되었다. 그는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되었다. 	발명이 되었는데 되고 있는데 요. 주변을 보면 일 되어 되는 요. 전					가는 하는 함께 되는 것이 없는 것 같아. 그 하는 것 같아 보는 것은 사람들이 되는 것이다. 하는 것이 되었다. - 사람들은 것이 되는 것은 것이 되는 것들이 하셨습니다. 그는 사람들은 사람들은 사람들이 되었다.	
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요즘 보기 되어 되는 것이 되는 것이 되어 되어 있다. 수입 기본에 기존되는 기존되는 경우에 통해 되는 것이다. 보고하는 기관에 가장 있는 것이다. 그는 것이 되는 것이 되는 것이 되는 것이 되었다.			AID			er frigger frank i former frieder fran fran fran fran 1900. De friede fran 1901 en 1901 af fran 1901 af friede Geskelf fran 1901 en 1901 af fran 1907 af fran 1907 af fran 1908 af fran 1907 af fran 1907 af fran 1907 af fra	
			0 61				
마트 성보는 이 마르트 보는 이 이 도로 마음을 보고 있다. 그 마을 그는 중요한 모든 경우 등록 하는 이 바로 및 분야 없는 것은 것을 하는 것이다. [편집] - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		200					
		20 1116				에 보면 그 보다고 있는 그리는 것으로 보는 사람들이 되었습니다. 그는 그는 전에 가장하는 사람들이 되었다. [발표] 사용] [발표]	
						이 마이트 전에 되었다. 그들면 말라이 그 있는 마음이 다른 중에 다른 한 바라에 다른 그는 다른 사람이 되었다. 그 마음이 기본을 다른 것이 말라이 그로 한 것이다. 나를 보고 있는 사람이 나를 하게 되는 것이다.	
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다고 살아가는 그들은 그 보고 있는 것이 되었다. 그는 그 사람들은 그는 그는 그들은 가장이 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은						용도 보통 이 경험으로 이 경험 수업을 받는 것으로 발표를 받은 경험을 들었다. 유럽이 가는 이 이 문학 보였다. 당한 기본 기업 기본 전기 시점 하고 있는 경험 경험을 통해 경험 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본	
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도 보통하는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들은 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. - 1980년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981년 - 1981						사용도 하고 있는 것이 되는 것이다. 그는 사용자 사용도 있다고 하고 한 경우를 통해 하면, 한 경우로 되었다. 그런 현실 수 있는 것이다. 2000년 대한 경험은 경험 기업 대한 경우 전체 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업	
마스 보는 보고 있는데 하는데 보고 있는데 보고 있는데 되었다. 그 사람들은 그 사람들은 바로 바로 보고 있다. 				가는 경험을 보고 말했다. 그 이 가장은 그들은 사람들이 되는데 보고를 보고 있다. 전략이 되었다. 음식 경험은 전략을 보려 하는데 사람들이 가장하는 것이 되었다. 그는데 이 경험으로 보다			
이 이 그는 소리를 보고 있는데 그렇게 하고 하는 사람들이 되는 사람들이 하는 물로 되는데 사용을 들어 들어 되었다. 이 전략이 되었다. 물론 사용 기가 있는 사람들이 되었다. 그 사용 기가 되었다. 이 사용 기가 되었다. 이 기가 되었다.						에 보는 경기를 하고 있다. 이 이용 중요는 이 이용 등을 하고 있다면 보고 있는 이 경기에 가장 하는 것이 되는 것이 되었다. 이 전문이 되었다. - 1. 일본 1일 등 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1. 일본 1	
으로 하지 않는 것이 되었다. 그는 사람들은 사람들에 가장 하는 것이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은							
는 이 사람들이 보고 있는데 이 사람이 되었다. 그런 사람들이 되었다. 그런 사람들이 되었다. 그런 사람들이 사용하는데 바람이 되었다. 그는 사람들이 되었는데 전문이 되었다. 그는 사람들이 되었다면 사람들이 되었다. 그런 사람들이 사용하는데 보다를 보고 있다.		사람이 보고 있다면 이 사람들이 있다. 당한 이 사람이 보고 있다면 생각하는				마스 경우 마스트 등 경우 이 보고 있다. 그리고 있다는 사람들이 되었다는 것이 되었다는 것이 되었다. 그는 사람들이 되었다. 사람들이 가는 것은 사람들이 되는 사람들이 모든 사람들이 사람들이 가는 사람들이 되었다. 그리고 있는 것이 되었다.	
이 보는 보고 있는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이다. [20] 이 사람들은 사람들이 되는 것이 되는 것이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은						경우로 보는 전 경영 경영 전 경영 경영 전 전 경영 전 경영 전 경영 전 경영	
이 말이 있는 것으로 보고 있는데 이 이 보고 있는데 보고 있는데 하는데 보고 있다. 그런데 되었다. 그런데 이 바로 보고 있는데 말을 하는데 되었다. 그렇게 살아 있는데 말을 하는데 하는데 하는데 되었다. 그 그런데 하는데 말을 하는데 하는데 보고 있는데 하는데 되었다. 그런데 하는데 되었다.						어린 보이 아이들이 되는 다른 그는 것은 사람들은 한다. 동물이 모르는 경기를 받는 것이다. 그리는 것들은 것이다. 경기는 이 경기도 있는 것은 것이 없는 것이다. 그런 것은 것을 보고 있다. 이 그리는 것을 다음 것이다. 그리는 것으로 가장 없는 것이다.	
인 성용이 등 경송이 있는 경기에는 이 경기를 보고 있다. 그는 사람이 이렇게 되었다면 하는 것이 되었다면 하고 있다면 하는 것이다. 						# 3 보이 되는 보이 10 보이 되는 보면 되는 보면 되고 있다. 그를 모르는 수 있는 하는 모든 모든 보이고 있는 것을 하는데 하는데 하는데 보다. - 사람이 많은 물로 보고 있는데 보고 있는데 보고 있다. 그는데 보고 있는데 보고 있는데 보고 있는데 보고 있다. 그는데 보고 있는데 보고 있는데 보고 있다.	
[1] 그는 16						마이 보통하다는 이번 이번 시간에 가장 보는 전쟁에 있는 사람이 되는 사람들이 되었다. 그런 경기를 가장하는 것이 되었다. 문화가 있는 이번 시간에 가장 보다 하는 사람들이 되었다.	
마이크로 보고 있다. 그리고 있는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되었다. 그런 그는 그는 것이 되었다. 그런 것이 되었다는 것을 했다. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						마는 사용 보다는 사람들이 되었다. 아들은 사람들의 모든 사용으로 하는 사용을 받는 것을 보는 것을 보는 것이다. 그는 사용으로 가득하는 것들은 사용을 하는 것을 보는 것이다.	
이 보는 보고 보고 하면 보는 이름이 되는 이번 이 가능을 하고 있는 것이 되었다. 이 사람들은 사람들은 사람들은 경기를 불렀는 것이라고 있다는 수 있다. 그는 이번 살아 살이 있는 이 이 어린이 아이들로 가장 하는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은						가는 이 등으로 보면 되었다. 이 하루 전 등로 발발되는 보면 표현에 발표되었다고 하는 보면 회를 받는 이 이 전에 발표되는 것 보는 물론이 발표하는 것은 것도 하는 것이다. 전기를 받는 것을 하는 것으로 보면 되었다. 기술 경기 등로 기술이다고 하는 것은 것은 것을 받는 것을 하는 것을 하는 것을 하는 것을 하는 것을 받는	
마시스트 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						APPROVED	
						DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION	
] [1] 보고 10 10 10 10 10 10 10 10 12 12 12 12 13 12 12 12 12 12 12 13 13 14 14 15 14 15 14 15 14 15 14 15 14 15 [1] 보고 10 10 10 10 10 10 10 10 10 10 10 10 10						APP.#04-116504 DATE 7-10-18	

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12/19/2017

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

> DJECT TITLE 24' x 40' EXPANDABLE TO 120' x 40'

PRE-CHECK (PC) DOCUMENT Code: [2016] CBC

A separate project application for construction is required.

ROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118918 ACS___FLS___SS__/ DATE__NOV - 7 20/3

Revision Schedule

120'x40' T24 CZ 16 (WALL AC)

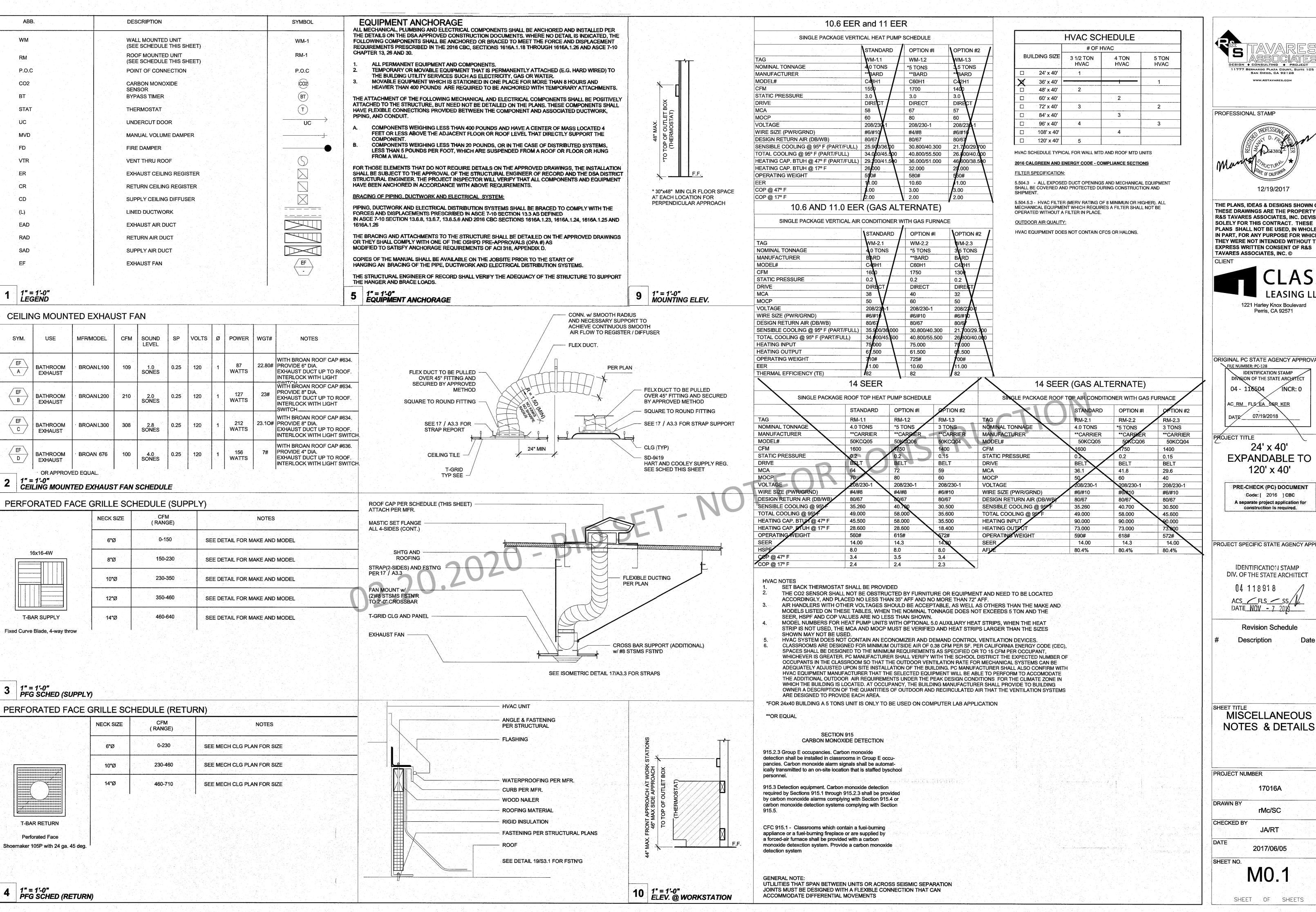
ROJECT NUMBER 17016A

rMc/SC

HECKED BY **JA/RT**

DATE 2018/04/25

SHEET NO. E2.3



DESIGN + CONSULTING + PROJECT SAN DIEGO, CA 92128

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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<u>RM</u> FLS<u>EA</u>SSR<u>KER</u> 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 APPROVA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118918 ACS__ FLS _ SS. DATE NOV - 7 201/

Revision Schedule

Date

Description

MISCELLANEOUS

PROJECT NUMBER

17016A

rMc/SC

JA/RT

2017/06/05

M0.1

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

Climate Zone (Reference City) (Front Orientation) 15 (Palm Springs-Intl) 16 (Blue Canyon) 336.85 erence: Energy Code, Appendix NA4, Table NA4-3

* 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

< Least Compliance Margin Orientation

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

		Total Floor Area: 4,800 ft ² m Type: Simple / Wall Mo		
	nvac syste	iii rype: Simple / Wali Mc	ounted A/C	
Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV - Standard Design	TDV - Proposed Design	Compliance Margin
14 (Palmdale) <	30	355.00	337.30	4.99%
	< * 75	334.48	333.12	< * 0.40%
	120	353.88	336.40	4.94%
	165	358.78	338.70	5.60%
	210	355.00	337.30	4.99%
	* 255	334.48	333.12	* 0.40%
	300	353.88	336.40	4.94%
	345	358.78	338.70	5.60%
15 (Palm Springs-Intl)	30	406.60	381.50	6.17%
283 28	* 75	384.85	375.42	* 2.50%
	120	404.84	380.12	6.11%
	165	410.19	382.55	6.74%
	210	406.60	381.50	6.17%
	* 255	384.85	375.42	* 2.50%
	300	404.84	404.84	6.11%
	345	410.19	382.55	6.74%
16 (Blue Canyon)	30	334.47	320.27	4.25%
4. 1	* 75	314.67	312.69	* 0.60%
	120	333.94	319.52	4.32%
	165	339.48	321.33	5.35%
	210	334.47	320.27	4.25%
	* 255	314.67	312.69	* 0.60%
	300	333.94	319.52	4.32%
	245	220 40	224 22	F 350

Project Name:

Project Address:

120X40 (PC 04-116504) - Wali AC

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

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.

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION

NRCC-PRF-01-E

Page 3 of 19

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

Location of Mandatory Notes on

M2.3

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

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

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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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118918 ACS___FLS___SS__ DATE_NOV - 7 2018

Revision Schedule

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

PROJECT NUMBER

DRAWN BY rMc/SC CHECKED BY

07/05/2018

SHEET NO. M2.1

SHEET OF SHEETS

Proje	ct Name:	120X40 (PC 04-116504) -	Wall AC		NRCC-PRF-01-E	Page 1 of 19	
Proje	ct Address:	Climate Zone 14 Palmdal	е		Calculation Date/Time:	19:52, Sat, J	un 23, 2018
Comp	oliance Scope:	NewComplete			Input File Name:	120X40 PC -	CZ14(Wall AC)R75RSPV.cibd16x
A. Pi	ROJECT GENERA	L INFORMATION					
1.	Project Location	(city)	Palmdale	8.	Standards Version		Compliance2016
2.	CA Zip Code			9.	Compliance Software (ver	sion)	EnergyPro 7.2
3.	Climate Zone		14	10.	Weather File		PALMDALE_723820_CZ2010.epw
4.	Total Conditione	d Floor Area in Scope	4,800 ft ²	11.	Building Orientation (deg)		(E) 75 deg
5.	Total Unconditio	ned Floor Area	0 ft ²	12.	Permitted Scope of Work		NewComplete
6.	Total # of Stories	(Habitable Above Grade)	1	13	Building Type(s)		Nonresidential
7.	Total # of dwellin	ng units	0	14	Gas Type		NaturalGas

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	<mark> </mark>	and the second of the second							
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	A company of the contract of t		and James and English						
Process Motors									
TOTAL	334.48	333.12	1.4	0.4%					

	Project Ac	Project Address: Climate Zone 14 Palmdale				Calculation Date/Time: 19:52, Sat, Jun 23, 2018				
	Complian	ce Scope:	NewComplete			Input File Name:	120X40 PC - CZ14((Wall AC)R75RSPV.cibd16	х	
A 1	C. PRIOR	ITY PŁAN CH	HECK/ INSPECTION ITEMS (in order of h	highest to lowest	TDV energy saving	gs)				
	1st	т —	ting: Check lighting			liance Margin By Energy	Component (from T	able B column 4)		
	2nd	Indoor Fans	: Check envelope and mechanical	yer anna construint sides.	KS 555 KK Ki akib damakkilaran makibangan pempana •	Lighting	antina di mangantan di mangangan di mangangan di mangan di mangan di mangan di mangan di mangan di mangan di m Mangangan di mangangan di mangangan di mangangan di mangan di man		Strangerstand, and Strangerstand, Start Lake Andrews	
w	3rd	Heat Rejecti	ion: Check envelope and mechanical			or Fans				
	4th	Pumps & M	lisc.: Check mechanical			ejection	The second secon		W 100	
	5th	Domestic H	ot Water: Check mechanical	Anna .	Pumps Domestic Ho	& Misc.		2000	And a contract of the contract	
	6th	Space Heati	ing: Check envelope and mechanical			Heating	Water land		alter on No.	
				5	•	Cooling			TOTAL THE REAL PROPERTY.	
	7th	Space Cooli	ng: Check envelope and mechanical	The state of the s			Penalty	Energy Credit		
§ 140.1			<u></u>				1 Charty	Lineigy Ortun		
	 D. EXCEP	TIONAL CON	NDITIONS							
er than Standard	The buildi	ng does not ir	nclude service water heating. Verify that se	ervice water heating	is not required and	is not included in the des	ign.			
-26.8%			mplified Geometry Performance Modeling	···				escriptive Secondary Day	lit Control	
-13.0%	requireme	ents are met.	PRESCRIPTIVE COMPLIANCE documentation	on (form NRCC-LTI-02	2-E) for the requiren	nents of section 140.6(d)	Automatic Daylighti	ng Controls in Secondary	Daylit Zones is	
3.4%	required.	<u> </u>							· · · · · · · · · · · · · · · · · · ·	
	E. HERS \	VERIFICATIO	N							
		on Does Not A			· · · · · · · · · · · · · · · · · · ·					
0.0%					 					
34.2%	F. ADDIT	IONAL REMA	ARKS							
0.5%	Standard I	Building (Com	ppliance)							
0.0%				- 1 						
· · · · · · · -										
0.4%										
			200 -							
		1.2								
-06-23 19:53:38	CA Building	g Energy Effici	iency Standards- 2016 Nonresidential Comp	pliance R	eport Version: NRC0	C-PRF-01-E-06152018-530	2	Report Generated at: 201	18-06-23 19:53:38	

NRCC-PRF-01-E

Page 2 of 19

	Identify wh	ich building com	ponents use the performance or prescriptive path for compliance. "NA"= not in project		
1000 1000 1000 1000 1000	For compone	nts that utilize the	e performance path, indicate the sheet number that includes mandatory notes on plans		
Building Component		pliance Path	Compliance Forms (required for submittal)		
	⊠	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)		
Envelope		Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E		
		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		
		NA			
		Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)		
omestic Hot Water	⊠	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		
		NA			
		Performance	S2 (section of the NRCC-PRF-01-E)		
Covered Process: Commercial Kitchens		Prescriptive	NRCC-PRC-01/ 03-E		
		NA			
		Performance	S3 (section of the NRCC-PRF-01-E)		
Covered Process: Computer Rooms		Prescriptive	NRCC-PRC-01/ 04-E		
The state of the s	⊠	NA			
		Performance	S4 (section of the NRCC-PRF-01-E)		
Covered Process: Laboratory Exhaust		Prescriptive	NRCC-PRC-01/ 09-E		
	⊠	NA			

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Climate Zone 14 Palmdale

120X40 (PC 04-116504) - Wall AC

Project Name:

Project Address:

Compliance Scope:

Project Name:

Project Address:

Compliance Scope: NewComplete

Project Name	e:	120X40 (PC 04-116504) - V	Vall AC	NRCC-PRF-01-E	Page 4 of 19	
Project Addre	ess:	Climate Zone 14 Palmdale		Calculation Date/Ti	me: 19:52, Sat, Jun 23, 2018	
Compliance S	Scope:	NewComplete		Input File Name:	120X40 PC - CZ14(Wall AC)R	75RSPV.cibd16x
G. COMPLIA	ANCE PAT	H & CERTIFICATE OF COMI	PLIANCE SUMMARY			
The followin	ng building	components are only eligible relevant to the	for prescriptive compliance. Indicate which are project.	The following building	ng components may have mandatory which are relevant to the pr	
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		Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
	×	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E		Electrical: §130.5	NRCC-ELC-01-E
	×	Lighting (Sign) §140.8	NRCC-LTS-01-E		Solar Ready: §110.10	NRCC-SRA-01 / 02-E
	□		NRCC-STH-01-E		Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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

Compliance Scope:	NewComplete	NewComplete Input File Name: 120X40 PC - CZ14(Wa									
Documentation Authors (Retain copies and ve	ISTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VE or to indicate which Certificates must be submitted for the feature crify forms are completed and signed to post in field for Field Inspe- in MCH and LTI Details Sections for Acceptance Tests and forms by	es to be recognized for compector to verify).		Confi	rmed						
Building Component	Compliance Forms (required for submittal)			Pass	Fail						
Envelope	☑ NRCI-ENV-01-E - For all buildings										
Envelope	☑ NRCA-ENV-02-F- NFRC label verification for fenestration										
	☑ NRCI-MCH-01-E - For all buildings with Mechanical Systems										
	☑ 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 Controls										
	☐ 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 Unit	ts									
	☐ 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 Controls										
	☐ NRCA-MCH-18-A- Energy Management Controls Systems										
	☐ NRCV-MCH-04-H- Duct Leakage Test										

NRCC-PRF-01-E

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Retain copies and verify	to indicate which Certificates must be submitted for the features to be recognized for compliance y forms are completed and signed to post in field for Field Inspector to verify). MCH and LTI Details Sections for Acceptance Tests and forms by equipment.	Confi	irmed
Building Component	Compliance Forms (required for submittal)	Pass	Fail
	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems		
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	T	
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.		
NILin.	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.		
Plumbing	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.		
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.		
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.		
	☐ NRCI-STH-01-E - Any solar water heating		
	☑ NRCI-LTI-01-E - For all buildings		
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)		
	NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting		
	NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater		
Indoor Lighting	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)		
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio		*
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.		
	☐ NRCA-LTI-03-A - Automatic daylighting controls		
	□ NRCA-LTI-04-A - Demand responsive lighting controls		
	□ NRCI-LTO-01-E – Outdoor 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 Lighting		
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution		
Photovoltaic	□ NRCI-SPV-01-E Photovoltaic Systems		

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CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

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CA Building Energy Efficiency Standards-2016 Nonresidential Compliance

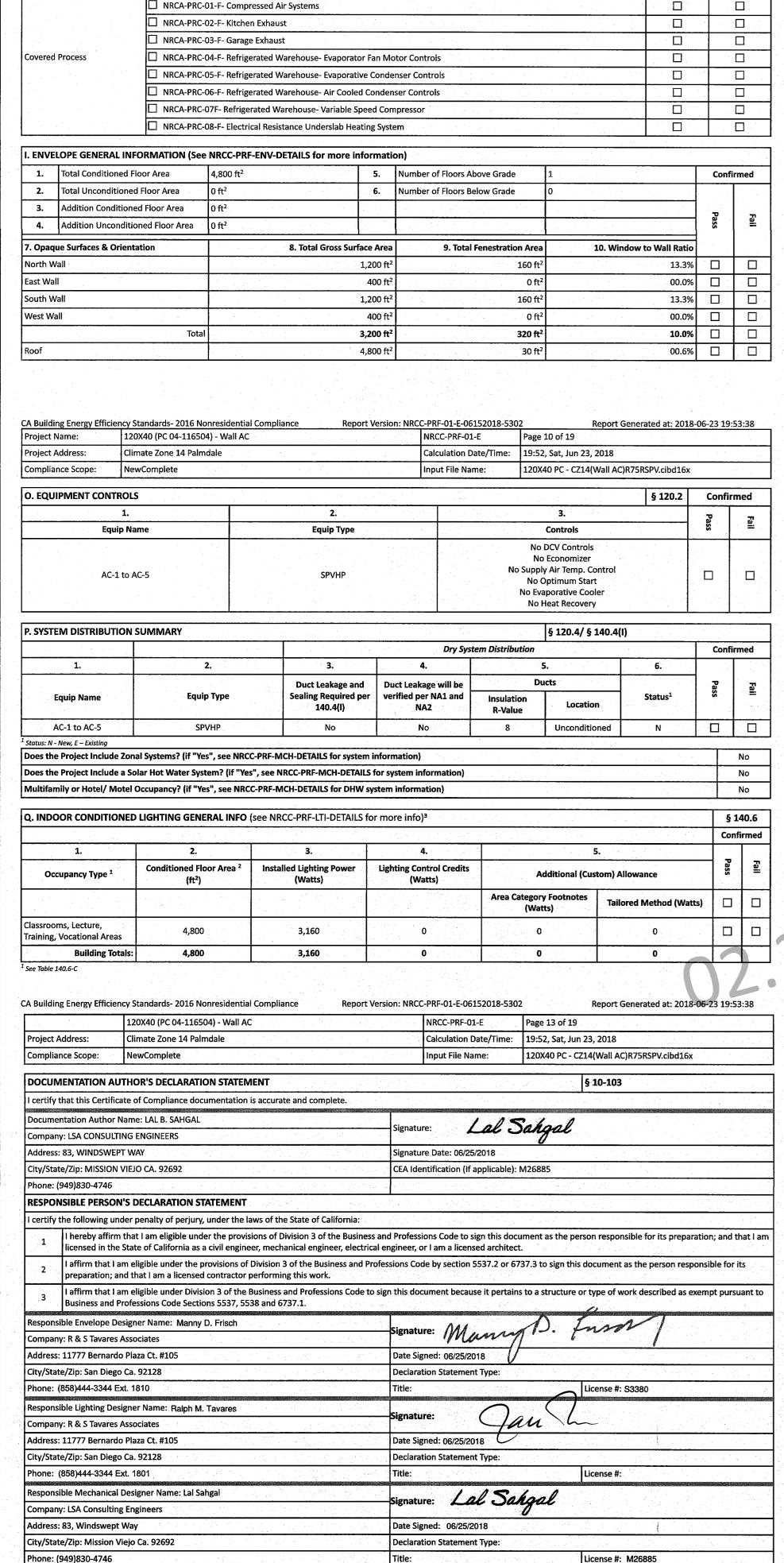
Report Version: NRCC-PRF-01-E-06152018-5302

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

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

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

Confirmed

Pass

120X40 (PC 04-116504) - Wall AC

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) -

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Compliance Forms (required for submittal)

NRCI-PRC-01-E Covered Processes

Climate Zone 14 Palmdale

NewComplete

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Project Name:

Project Address:

Compliance Scope:

Building Component

roject Name:	120X40 (I	PC 04-116504) -	- Wall AC		INRO	CC-PRF-01-E	Pa	ge 8 of 19	9					
roject Address:	Climate Z	one 14 Palmdal	e		Cald	culation Date/T	ime: 19	:52, Sat, .	Jun 23, 201	18				-
ompliance Scope:	NewCom	plete			Inpi	ut File Name:	12	0X40 PC	- CZ14(Wal	II AC)R75R	SPV.cibd16	X		
FENESTRATION ASS	EMBLY SU	MMARY							· · · · · · · · · · · · · · · · · · ·	· · · · · ·	§ 110.6		Conf	irme
1.			2.	3.		4.		5.	6.	7.	8.	9.	t	Ī
Fenestration Assembl Tag or I.D.				Certification Metho	od ¹ Asse	Assembly Method		Area ft ² Overall U-facto		Overall SHGC	Overall VT	Status	Pass	9
Vertic			lFenestration dWindow N/A	NFRC Rated	М	anufactured		320	0.35	0.24	0.50	N		
Solatube		l	kylight dWindow N/A	NFRC Rated	М	anufactured		30	0.37	0.35	0.50	N		E
verification. Site-built fenestro tatus: N - New, A – Altered, E aking compliance credi	ation values are - Existing it for fenest	calculated per Non	residential Appendix NA6 a			formation)				§ 120.7/	§ 140.3		No Conf	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi	ation values are - Existing it for fenest	calculated per Non	devices? (if "Yes", see			formation)	5.		6.	§ 120.7/		8.	Conf	
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi	ation values are Existing it for fenest	calculated per Non	devices? (if "Yes", see	: NRCC-PRF-ENV-DETA	AILS for more inf		5. Cavity R-Value				/ F-Factor	∞ Status¹		irme
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi . OPAQUE SURFACE Surfac	ation values are - Existing it for fenest ASSEMBLY	ration shading	devices? (if "Yes", see	NRCC-PRF-ENV-DETA	AILS for more inf	4. Framing	Cavity		6. ntinuous	7 U-Factor	/ F-Factor actor		Conf	irme
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi . OPAQUE SURFACE Surfac	ation values are - Existing it for fenest ASSEMBLY 1. e Name Metal Stud5	ration shading	devices? (if "Yes", see	NRCC-PRF-ENV-DETA	AILS for more inf 3. Area (ft²)	4. Framing Type	Cavity R-Value		6. ntinuous -Value	7 U-Factor / / C-Fa	/ F-Factor actor r: 0.104	Status ¹	Conf	irme
Surfac R-19 Wall	ation values are - Existing it for fenest ASSEMBLY 1. e Name Metal Stud5	ration shading SUMMARY	devices? (if "Yes", see 2 Surfac Exterio	e NRCC-PRF-ENV-DETA . e Type orWall	3. Area (ft²) 3200	4. Framing Type Metal	Cavity R-Value		6. ntinuous -Value	7 U-Factor / / C-Fa	/ F-Factor actor r: 0.104 r: 0.091	Status ¹ Z	Confi	
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi OPAQUE SURFACE Surfac R-19 Wall Raised Slab F Standing Sean	ation values are - Existing it for fenest ASSEMBLY 1. e Name Metal Stud5 floor with R- n R-30 Meta	ration shading SUMMARY	devices? (if "Yes", see 2 Surfac Exterio	e NRCC-PRF-ENV-DETA . e Type orWall	3. Area (ft²) 3200 4800	4. Framing Type Metal Metal	Cavity R-Value 19		6. ntinuous -Value 4 NA	U-Factor / / C-Facto U-Facto	/ F-Factor actor r: 0.104 r: 0.091	Status ¹ Z Z	Conf	irme
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi . OPAQUE SURFACE Surfac R-19 Wall	ation values are - Existing it for fenest ASSEMBLY 1. e Name Metal Stud5 floor with R- n R-30 Meta - Existing	ration shading summary SUMMARY	devices? (if "Yes", see 2 Surfac Exterio	e NRCC-PRF-ENV-DETA . e Type orWall	3. Area (ft²) 3200 4800	4. Framing Type Metal Metal	Cavity R-Value 19		6. ntinuous -Value 4 NA	U-Factor / / C-Facto U-Facto	/ F-Factor actor r: 0.104 r: 0.091 r: 0.072	Status ¹ Z Z	Conf	irme
serification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi OPAQUE SURFACE Surface R-19 Wall Raised Slab F Standing Sean tatus: N - New, A - Altered, E	ation values are - Existing it for fenest ASSEMBLY 1. e Name Metal Stud5 floor with R- n R-30 Meta - Existing	ration shading summary SUMMARY	devices? (if "Yes", see 2 Surfac Exterio	e NRCC-PRF-ENV-DETA . e Type orWall	3. Area (ft²) 3200 4800	4. Framing Type Metal Metal	Cavity R-Value 19 11 30		6. ntinuous -Value 4 NA	U-Factor / / C-Facto U-Facto	/ F-Factor actor r: 0.104 r: 0.091 r: 0.072	Status ¹ N N N	Conf	irme
verification. Site-built fenestro tatus: N - New, A - Altered, E aking compliance credi . OPAQUE SURFACE Surfac R-19 Wall Raised Slab F Standing Sean tatus: N - New, A - Altered, E . ROOFING PRODUC	ation values are - Existing it for fenest ASSEMBLY 1. e Name Metal Stud5 Floor with R- R-30 Metal - Existing T SUMMA	ration shading summary SUMMARY	devices? (if "Yes", see 2 Surfac Exteric Ro	e NRCC-PRF-ENV-DETA e Type orWall orFloor oof	3. Area (ft²) 3200 4800 4800	4. Framing Type Metal Metal NA	Cavity R-Value 19 11 30	R	6. ntinuous -Value 4 NA NA	7 U-Factor / C-Fa U-Facto U-Facto U-Facto	/ F-Factor actor r: 0.104 r: 0.091 r: 0.072	N N N	Conf	irme

Compliance Scope:	NewComplete	esti i	Inpu	t File Name:	120X40 PC - CZ14(Wal	AC)R75RSPV.cibd16x		
See NRCC-LTI-01-E for uncondi Lighting information for existin	itioned spaces ng spaces modeled is not included in the table							
R. INDOOR CONDITIO	ONED LIGHTING SCHEDULE (Adapted	from NRCC-LTI-01-E)1					§ 13	0.0
	cludes all permanent installed lighting in portable lighting over 0.3 w/ft² in		ln		Confi	rmed		
	Complete Luminaire Description (i.e.,		How Wattage	is Determined	Total Number		- 44 - 5 - 1	
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	Installed Watts	Pass	Fail
L-1	3-LAMP / 32W / T8	96	Yes	No	40	3,840		
S1. COVERED PROCES	SS SUMMARY - ENCLOSED PARKING	GARAGES				§ 140.9		
This Section Does Not A						3 2-1013	<u> </u>	
This section bees need.	PP-)							
S2. COVERED PROCES	SS SUMMARY – COMMERCIAL KITCHI	ENS				§ 140.9		
This Section Does Not A	pply							
S3. COVERED PROCES	SS SUMMARY – COMPUTER ROOMS				§ 140.9			
This Section Does Not A	pply				A			
SA COVERED DROCES	SS SUMMARY – LABORATORY EXHAU	CTC		-1		§ 140.9		
		313				3 140.9		
This Section Does Not A	рріў.						<u> </u>	
T. UNMET LOAD HOU	IRS							-
This Section Does Not A	pply						- : :	
U. ENERGY USE SUM	MARY							
Energ	y Component Stand	ard Design Site Pr (MWh)	roposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)		rgin Btu)
Spa	ice Heating		6.4		51.5			

14.3

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-2.1

12.2

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NRCC-PRF-01-E

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CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Space Cooling

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Project Name:

Project Address:

120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

			U. I	ENERGY USE
	§ 13	30.0		
	Confi	rmed		
stalled Watts	Pass	Fail		
3,840		. 🔲 .		* * * * * * * * * * * * * * * * * * * *
40.9				
40.9				
The Mark Page		-		
oosed Design Site (MBtu)	Ma (M	rgin Btu)		
1		- 1		
-		-		

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M. HVAC SYST	M SUMM	ARY (see I	NRCC-PRF-MCH	DETAIL	S for more into	ormation)				<u> </u>	§ 110.1 / § 110.	_		
			Dry	System	Equipment ¹ (Far	n & Economizer	info included be	elow in Table N)		·			Conf	firmed
1.		2.	3.	4.	5.	5. 6. 7. 8.			g).	10.	0. 11.		
Equip Name	Equip	о Туре	System Type (Simple ² or	Qty	Total Heating Output	Supp Heat Source (Y/N)	Supp Heat Output	Total Cooling Output	Efficiency		Acceptance Testing Required? (Y/N)		Pass	Fail
		1, 3,	Complex 3)		(kBtu/h)		(kBtuh)	(kBtu/h)	Cooling	Heating	4	S 5		
AC-1 to AC-5	1	VHP ed1Phase)	Simple	5	40	No	0	38	EER-11.00	COP-3.40	Yes	N		
¹ Dry System Equipme ² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A -	complete NRCO st complete NR acceptance tes	C-CXR-03-E con CC-CXR-04-E co ts are applicab	nmissioning design rev ommissioning design r	ew form view form										
 Simple Systems must Complex Systems mu A summary of which 	complete NRCC st complete NR acceptance tes Altered, E – Exis	C-CXR-03-E con CC-CXR-04-E co ts are applicab ting	nmissioning design rev ommissioning design r le is provided in NRCC-	ew form view form										
² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A - Wet System Equ	complete NRCC st complete NR acceptance tes Altered, E – Exis pment Secti	C-CXR-03-E con CC-CXR-04-E constant tages are applicable ting	nmissioning design rev ommissioning design r le is provided in NRCC- ot Apply	ew form view form PRF-MCH-I	DETAILS									
² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A - Wet System Equ	complete NRCC st complete NR acceptance tes Altered, E – Exis pment Secti	C-CXR-03-E con CC-CXR-04-E constant tages are applicable ting	nmissioning design rev ommissioning design r le is provided in NRCC-	ew form view form PRF-MCH-I	DETAILS	ole F. "Additional	Remarks" for a	n explanation)			No			
² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A - Wet System Equ	complete NRCCC st complete NR acceptance tes Altered, E – Exis pment Secti	C-CXR-03-E con CC-CXR-04-E co ts are applicab ting ion Does No led and des	nmissioning design rev ommissioning design r le is provided in NRCC- ot Apply signed equipmen	ew form view form PRF-MCH-I	DETAILS	ole F. "Additional	Remarks" for a	n explanation)			No § 140.4		Confi	rmed
² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A - Wet System Equ	complete NRCCC st complete NR acceptance tes Altered, E – Exis pment Secti	C-CXR-03-E con CC-CXR-04-E co ts are applicab ting ion Does No led and des	nmissioning design rev ommissioning design r le is provided in NRCC- ot Apply signed equipmen	ew form view form PRF-MCH-I	DETAILS	ole F. "Additional	Remarks" for a	n explanation)					Confi	irmed
² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A - Wet System Equ Discrepancy bet N. ECONOMIZI	complete NRCCC st complete NR acceptance tes Altered, E – Exis pment Secti ween mode	C-CXR-03-E con CC-CXR-04-E co ts are applicab ting ion Does No led and des	nmissioning design rev ommissioning design rev le is provided in NRCC- ot Apply signed equipmen	ew form PRF-MCH- Sizing?	(if "Yes", see Tab	ole F. "Additional	Remarks" for a		Fan		§ 140.4 5.			
² Simple Systems musi ³ Complex Systems musi ⁴ A summary of which ⁵ Status: N - New, A - Wet System Equ Discrepancy bet N. ECONOMIZI	complete NRCC st complete NR acceptance tess Altered, E – Exis pment Secti ween mode R & FAN S 2. Outside	C-CXR-03-E con CC-CXR-04-E co ts are applicab ting ion Does No led and des	nmissioning design rev ommissioning design rev le is provided in NRCC- ot Apply signed equipmen	ew form ewiew form PRF-MCH- sizing? 3. upply Fa	(if "Yes", see Tab		Remarks" for a	4. Return	Fan TSP inch	Control	§ 140.4	Гуре	Confi	irmed

AC-1 to AC-5 | 360 | 1250 | 0.750 | 0.750 | 1.90 | Constant Volume | NA | NA | NA | NA

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120X40 (PC 04-116504) - Wall AC

Climate Zone 14 Palmdale

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Climate Zone 14 Palmdale

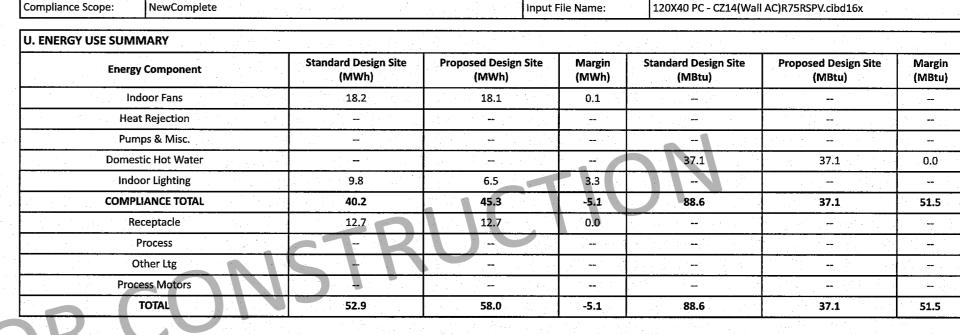
120X40 (PC 04-116504) - Wall AC

Project Name:

Project Address:

Project Name:

Project Address:



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APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION APP #04-116504 DATE 7-10-18



PROFESSIONAL STAMP

NoEconomizer | | | |

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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. ©

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

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 118918

Revision Schedule

Description

120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER

DRAWN BY rMc/SC CHECKED BY

07/05/2018

SHEET NO. M2.2

SHEET OF SHEETS

Report Version: NRCC-PRF-01-E-03092018-5302

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

Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 14 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	

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSI	EMBLY DETAILS	사람들이 어린 사람들이 사용했다면 나는 아내가 살았다.		Confi	rmed
1.	2.	3. a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a	4.	P	20
Surface Name	Surface Type	Description of Assembly Layers	Notes	Pass	<u> </u>
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 Does Not Apply

C. OPAQUE DOOR SUMMARY

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

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٠.				
	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

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL V	ENTILATION	AND REI	HEAT (Ada	pted fron	n 2016-NR	РСС-МСН-	03-E	laga e e i			27				-			Confi	rmed
		1. DESIGN	AIR FLOW	/S							2. VENTI	LATION.	(§ 120.1)	14,				
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM	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
1-First Floor	AC-1 to AC-5	6,250	NA	NA	NA	NA	N	AC-1 to AC-5	4,800	NA	120.0 0	15.00	1,800	1,800	NA	Ν	NA		
					111			TOTAL	4,800		120.0 0		1,800	1,800	NA				

B. ZONAL SYSTEM AN	ND TERMINAL UNI	T SUM	MARY										§ 140	.4
1.	2.	3.	4		5.	6.		7.	·	-	8.		Confi	rmed
System ID	System Type	Qty	Rated C (kBi	uh)	Economizer	Zone Name		irflow (cfn	n) Min.		Fan	ECM	Pass	Fail
			Heating	Cooling			Design	Min.	Ratio	ВНР	Cycles	Motor		
1-First Floor-Trm	Uncontrolled	5	NA	NA	NA	1-First Floor	6250	NA	NA	NA	NA			

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

 CA Building Energy Efficier	cy Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-0				
Project Name:	120X40 (PC 04-116504) - Wall AC		NRCC-PRF-01-			

	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
a. '	Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ14(Wall AC)R75RSPV.cibd16x

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

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

This Section Does Not Apply

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E) Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to																	
	Declaration of Require Inspector to verify).	d Accept	ance Cert	ificates (N	IRCA) – A	cceptanc	e Certifica	ates that m	nay be sub	mitted. (Retain co	pies and v	verify form	ns are cor	npleted a	nd signed	to post
	Test Description	MCH-0	мсн-о	MCH-0	MCH-0	MCH-0	MCH-0	MCH-0	мсн-о	MCH-1	MCH-1	MCH-1	MCH-1	MCH-1	MCH-1	MCH-1	MCH-1

	Declaration of Required Acceptance Certificates (NRCA) — Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field inspector to verify).																			
Test Descr	iption	MCH-02A	МСН-03А	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	Confi	rmed
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	Ta E
AC-1 to AC-5	5	Х	-			-		_	-	_	-			_		- 1				

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

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

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

§ RA4

Project Name:	120X40 (PC 04-116504) - Wall AC	NRCC-PRF-01-E	Page 17 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

NRCC-PRF-LTI-DETAILS -SECTION START-

d	A. INDOOR CO	NDITIONED LIGHTING CONTROL	. CREDITS (Adapted from NRCC-L	TI-02-E)				§ 140.6		
	Lighting Con	•	ighting controls installed in condition I0.6(a)2 and Table 140.6-A)	hting controls installed in conditioned space for .6(a)2 and Table 140.6-A)			Control Credit Calculation			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			

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)

This Section Does Not Apply \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive

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 NA
Additional "use it or lose it" (See Table G)	0
Total wa	

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

This Section Does Not Apply

<u> </u>					and the second			
E. GENERAL LIGHT	TING FROM SPECIAL FUNCTION AREAS (Adapt	ed from NRCC-LTI-	04-E)				§ 140.6(c) 3H
Room Number	Primary Function Area	Illuminance Value	Room Cavity Ratio	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confi	irmed
ROOM Number	Filliary Function Area	(LUX)	(Table G)	Allowed LPD	Ploof Area (IL-)	Allowed Watts	Pass	Fail
NΔ	NΔ	NA	NΔ	NΔ	NΔ	NΔ	П	П

CA Building Energy Efficien	cy Standards- 2016 Nonresidential Compliance	Report Version: NRCC	C-PRF-01-E-06152018-5302	Report Generated at: 2018-06-23 19:53:38
Project Name:	120X40 (PC 04-116504) - Wall AC		NRCC-PRF-01-E	Page 18 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

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	Confirme	d
Noom Number	lasignetivity bescription	Room Length (It)	Nooni widai (it)	Room cavity rieight (it)		Pass Fa	il
NA	NA NA	NA	NA	NA	NA		רֹנ

Non-Rectangular Spaces This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

. ADDITIONAL "USE IT OR LOSE I	T" (Adapted from NRCC-LTI-04-E)			The second of th		
1.	2.	3.	4. (1997)		Confir	med
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail
.0.	0	0 1 N N N N N N	0	0		

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

 CA Building Energy Efficien	ncy Standards- 2016 Nonresidential Compliance Report Version: NRC	C-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 19 of 19
Project Address:	Climate Zone 14 Palmdale	Calculation Date/Time:	19:52, Sat, Jun 23, 2018

 i roject ranne.	LEGATO (1 C OT 110004) Viuli 1 C	THREE THE GIL	1 ugc 15 01 15	
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	
H. INDOOR & OUTDO	OR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-0	1-E and NRCC-LTO-01-E)		§ 130.4
Declaration of Required	Acceptance Certificates (NRCA) -Acceptance Certificates that must be verified	in the field. (Retain copie	es and verify forms are completed and signed to	post in field for

		Fiel	a inspector to verity).					
Toot Day	scription		Indoor		Outdoor	Confi	rmed	
lest De:	scription	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							ı i
Automatic Time Switch	0	X				%□		
Automatic Daylighting	0		×					
Demand Responsive	0							
Outdoor Controls	0							
The factor of th				Survival of the control of the contr				

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION



PROFESSIONAL STAMP

§ 130.1

§ 140.6-D



12/19/2017

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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL PILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 NCR: 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 118918

> Revision Schedule Description

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

PROJECT NUMBER 17016A DRAWN BY rMc/SC CHECKED BY **JA/RT** DATE 07/05/2018

SHEET NO. M2.3

ENVEL	OPE MANDATORY MEASURES: NONRESIDENTIAL	ENV-MN
Project Name 120X40 (F	PC 04-116504) - Wall AC	Date 6/23/2018
DESCRIP	PTION	<u> </u>
Building E	nvelope Measures:	
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Standards for insulating material, Title 20 Chapter 4, Article 3.	Quality
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density Sections 2602 and 707 of Title 24, Part 2.	requirements of
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.	
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be cault weatherstripped or otherwise sealed.	ked, gasketed,
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential si (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).	
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	
§110.6(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestratio applicable default SHGC.	n, or the
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and weatherstripped (except for unframed glass doors and fire doors).	d shall be
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces of shall meet the applicable U-Factor requirements as follows: Metal Building- The weighted average U-factor of the roof assembly shall not exceed 0.098. Wood Framed and Others- The weighted average U-factor of the roof assembly shall not exceed 0.000.	
§120.7(b):	Metal Building- The weighted average U-factor of the wall assembly shall not exceed 0.113. Metal Framed- The weighted average U-factor of the wall assembly shall not exceed 0.151. Light Mass Walls- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not Heavy Mass Walls- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not 0.690. Wood Framed and Others- The weighted average U-factor of the wall assembly shall not exceed 0.1 Spandrel Panels and Opaque Curtain Wall- The weighted average U-factor of the spandrel panels a curtain wall assembly shall not exceed 0.280. Demising Walls The opaque portions of framed demising walls shall meet the requirements of Item	10. and opaque
	A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.	
	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces shall meet the applicable U-Factor requirements as follows:	or ambient air
§120.7(c):	Raised Mass Floors- Shall have a minimum of 3 inches of lightweight concrete over a metal deck or average U-factor of the floor assembly shall not exceed 0.269. Other Floors-The weighted average U-factor of the floor assembly shall not exceed 0.071.	the weighted

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).
- Each Thermostatic control required by Subsection (a) shall be capable of being set locally or remotely by adjustment or selection of sensors to control:
 - 1) 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.

Sec. 120.2 (a) & (b)

1) Outdoor air supply and exhaust equipment shall be installed with dampers that automatically close upon fan shutdown.

Sec. 120.2 (f)

2) Demand Control Ventilation Devices (CO2 sensors) shall be installed in accordance with Sec. 120.1 (c) 4.

Sec. 120.1 (c) 4

- 3) Each space-conditioning system shall be installed with controls that comply with Items 1 and 2 below:
 - 1) Are capable of automatically shutting off the system during periods of non-use and shall have:
 - a) An automatic time switch control device complying with Sec. 119(c), with an accessible manual override that allows operation of the system for up to
 - 4 hours; or
 b) An occupancy sensor; or
 - A four-hour timer that can be manually operated.
 - d) EXCEPTION: Mechanical systems serving retail stores and associated malls, restaurants, grocery stores, churches, and theaters equipped with 7-day programmable timers.
 - Automatically restart and temporarily operate the system as required to maintain:
 a) A setback heating thermostat set point, if the system provides mechanical

heating; and EXCEPTION: Area with the design winter outdoor temperature of greater than 32°F

b) 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

to SH

7) Lavatories in public restrooms shall have controls that limit the water supply temperature to 110°F.

Sec. 110.3 (c) 3



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12/19/2017

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Perris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL
FILE NUMBER: PC-128

INCRITION STAMP
DIVISION OF THE STATE ARCHITECT

04 - 116504

INCR: 0

AC_RM_FL8_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 118918

ACS____FLS___SS___DATE__NOV - 7 2819

Revision Schedule

Description

120'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER

17016A
DRAWN BY

rMc/SC
CHECKED BY
JA/RT

DATE 07/05/2018

SHEET NO.

M2.4

SHEET OF SHEETS

02.20.2020 - BID SET - NOT FOR CONS

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.



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ORIGINAL PC STATE AGENCY APPROVAL

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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 118918

ACS__FLS__SS__
DATE__NOV - 7 2/19

Revision Schedule

Description

MECHANICAL CEILING PLAN 36x40

PROJECT NUMBER

17016A DRAWN BY rMc/SC

CHECKED BY

5 TON HVAC

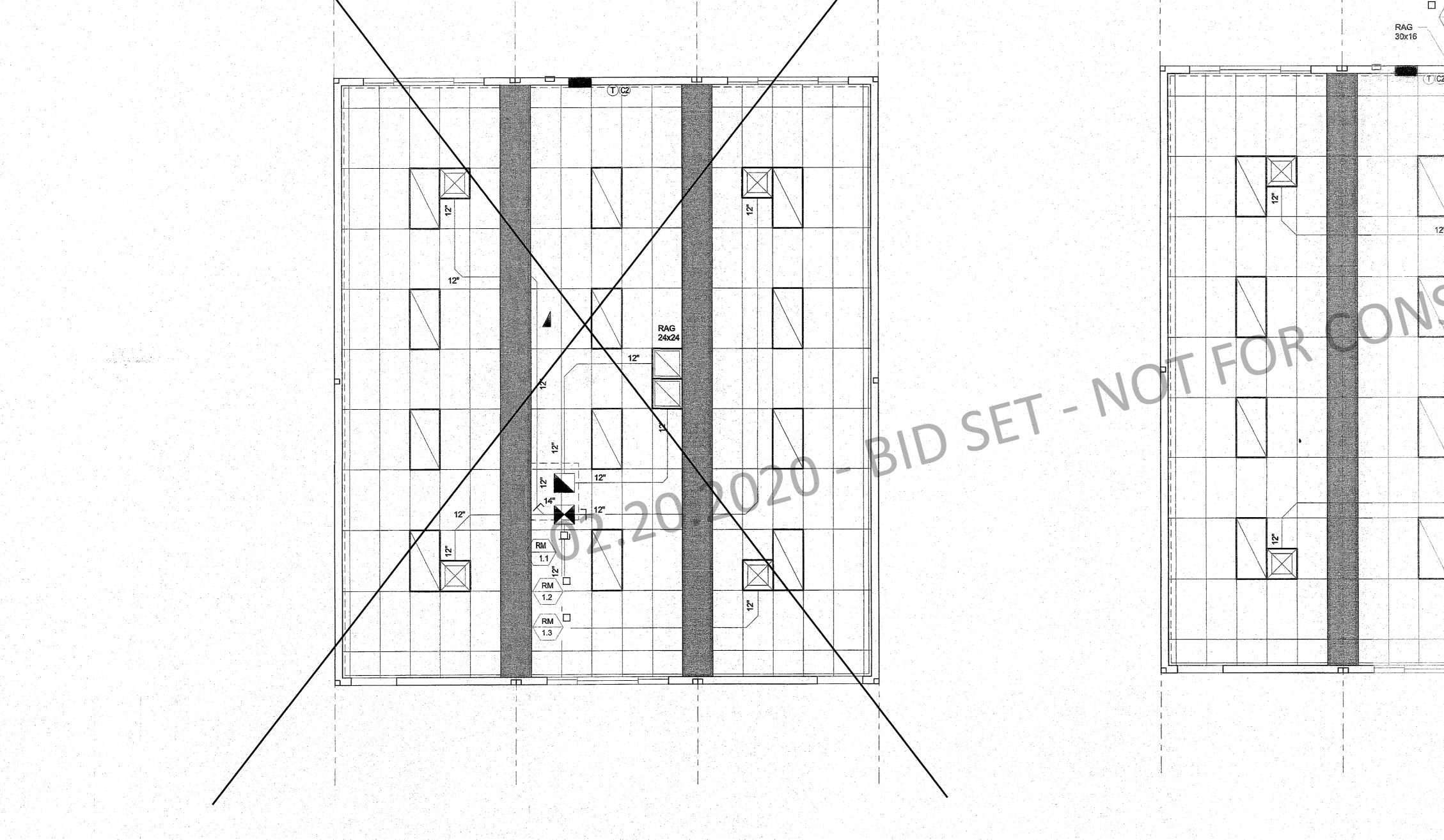
JA/RT
DATE 2017/06/05

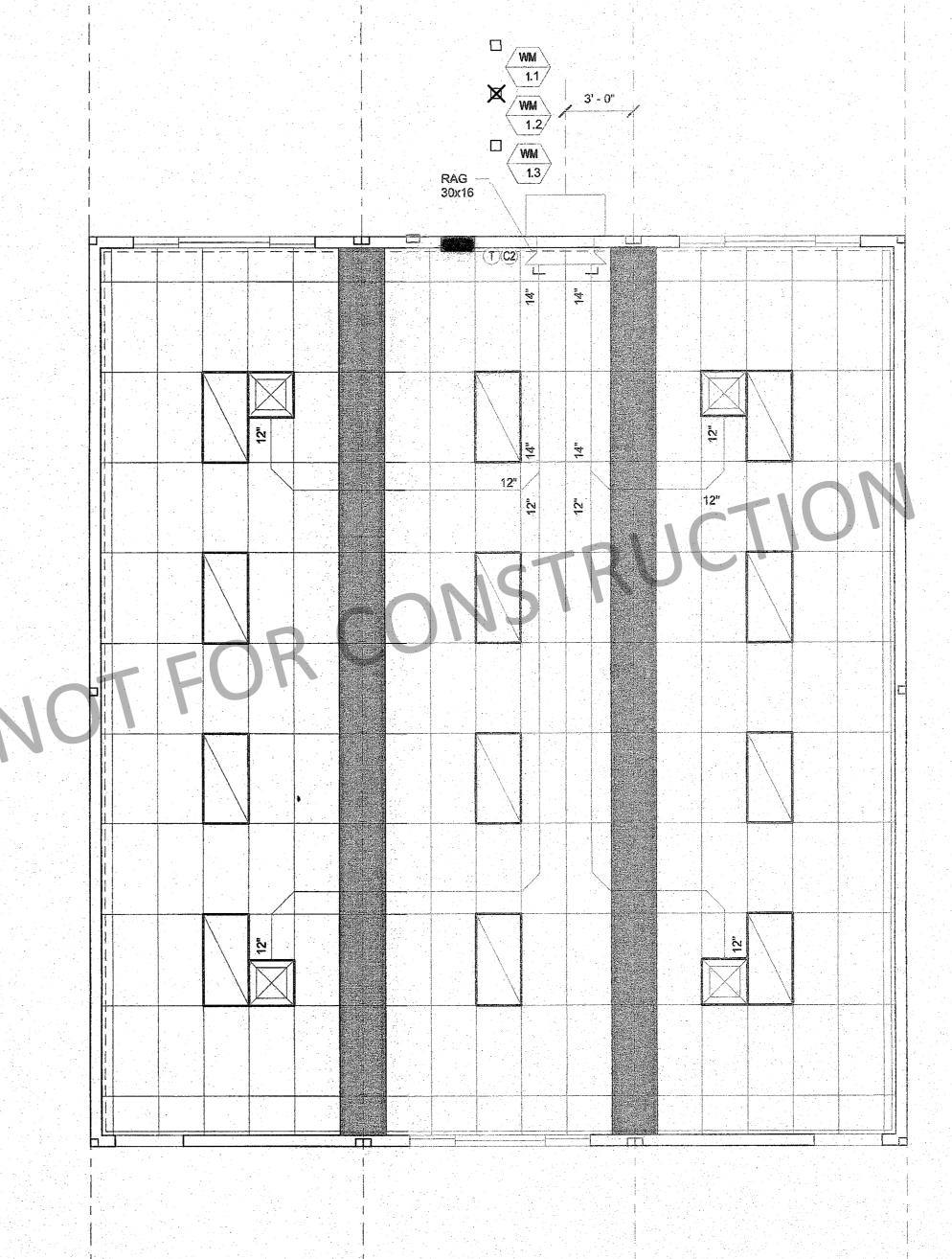
2017/06/05

M6.1

SHEET OF SHEETS

1 1/4" = 1'-0" 36x40 WM-1 MECH PLAN





- ALL WORK, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED
- IN ACCORDANCE WITH CURRENT AISC SPECIFICATIONS AND STANDARDS.
- STEEL SHAPES SHALL COMFORM TO THE FOLLOWING STANDARD: STRUCTURAL HSS COLUMNS: ASTM A500 GRADE B
 - STRUCTURAL W-SHAPES: ASTM A992 GRADE 50 TUBE STEEL: ASTM A500 GRADE B
- ALL OTHER: 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

- ALL CONCRETE WORK, UNLESS MODIFIED BY CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 19A, CBC 2013 AND ACI 318-11.
- TESTS AND INSPECTION SHALL BE PERFORMED BY A TESTING LABORATRY CONTRACTED BY THE
- 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.
- FORMWORK SHALL RESULT IN FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS AS REQUIRED BY THE CONTRACT DOCUMENTS.
- LOCATIONS OF VENTS AND OPENINGS FOR MECHANICAL AND ELECTRICAL USE SHALL BE VERIFIED BY ARCHITECT.
- 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.
- 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) QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF
- THE LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTIFY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
- 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 EACH TRUCK, ITS LOAD, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TIME OF RECEIPT, AND TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

ANCHOR BOLTS, AND REINFORCING STEEL SHALL BE SECURELY TIED BEFORE CONCRETE IS POURED.

STEEL REINFORCEMENT

- DEFORMED BARS SHALL CONFORM TO ASTM A615.
- fy= 40,000 PSI, FOR ALL BARS EXEPT FOR #3 BARS, fy= 60,000 PSI.
- PROVIDE A MINIMUM CONCRETE COVER FOR REINFORCEMENT EMBEDDED IN: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
- 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 UNLESS OTHERWISE SPECIFIED DRAWINGS.

ALL BOLTS AND ANCHOR BOLTS SHALL COMFORM ATO ASTM A-307 BOLTS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED BY THE HOT-DIP OR MECHANICAL

- ALL WELDING SAHLL BE IN COMFORMANCE TO:
 - AWS D1.1, EXCEPT AS MODIFIED IN SECTION J2, AISC-360 FOR STEEL
 - AWS D1.3 FOR LIGHT GAUGE STEEL AWS D1.4 FOR REINFORCING STEEL
- B. ELECTRODE CLASSIFICATION:
 - E70XX FOR STEEL AND CONCRETE STEEL REINFORCEMENT
 - E60XX FOR LIGHT GAUGE STEEL
- WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V-NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION:
 - LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT-LB AT 0 DEGREE F COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT-LB AT 40 DEGREE F
- SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND
 - ROOF DECK WELDS. CONTINUOUS INSPECTION FOR OTHER WELDS.
- NONDESTRUCTIVE TESTING (NDT):
- 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. 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:

- ALL WORK SHALL, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AISI SPECIFICATIONS AND STANDARDS.
- MATERIAL SPECIFICATION:
- ASTM A-1011/A, GRADE 33 FOR MATERIALS THICKNESS 0.120 OR LESS UNLESS OTHERWISE NOTED
- ASTM A-1003, GRADE 33 TYPE H FOR LIGHT GUAGE STUDS AND TRACKS 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.

12" = 1'-0" CHANGES AFFECTING STRUCTURAL PORTION OF THE APPROVED PC SHALL NEED DSA APPROVAL AND STRUCTURALS NO TESCLASSIFIED AS CCD CATEFORY A.

ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY

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

OPTION: 1/2" OSB OR CDX PLYWOOD FOR HARDIE BOARD (LAP SIDING) FINISH

- CAPABLE OF ACCEPTING CARPET FINISH
- PLYWOOD ROOF DECK OPTION: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING EXTERIOR WALL SIDING: STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
 - OPTION: 5/8" MOD OPTION: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
- 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.
- 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 COPPER PER CBC 2304.9.5.1

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

> 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 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:

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:

- THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OR THE SHANK SHALL HAVE SAME DEPTH AND DIAMETER.
- 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

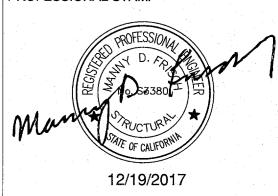
- HILTI X-CR PIN WITH 0.145 SHANK DIAMTER, ICC ESR-1663
- RAMP SET 1500 PIN WITH 0.145 SHANK DIAMETER, ICC ESR-1799 SIMPSON STRONG TIE PDP PIN WITH 0.145 SHANK DIAMETER, ICC ESR-2138

NAILING SCHEDULE: (ALL NAILS SHALL BE COMMON, GALVANIZED WHERE EXPOSED) PER C.B.C. TABLE 2304.9.1

<u></u>		CONNECTION	FASTENING	LOCATION
	1.	JOIST TO SILL OR GIRDER	3-8d	TOENAIL
	2.	BRIDGING TO JOIST	2-8d	TOENAIL EA. END
	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.	16d@16"	TYP. FACE NAIL
		TO EA. JOIST		
		SOLE PLT. TO JOIST OR BLK'G.	3-16d@16"	TYP. FACE NAIL
		@ BRACED WALL PANEL	0.401	
			2-16d	END NAIL
	8.	STUD TO SOLE PLT. OR	2-16d 4-8d	END NAIL TOENAIL
	9.	DOUBLE STUDS	16d@24"	END NAIL
	10.	DOUBLE TOP PLT.	16d@16"	TYP. FACE NAIL
		DOUBLE TOP PLT.	8-16d MIN. U.N.O.	LAP SPLICE
	11.	BLKG. BTW. JOIST OR RAFTERS TO TOP PLT.	3-8d	TOENAIL
	12.	RIM JOIST TO TOP PLT.	8d@6"	TOENAIL
		TOP PLT., LAPS &	2-16d	FACE NAIL
		INTERSECTIONS		
		CONT. HDR. 2 PIECES	16d@16"	ALONG EDGE
		CLG. JOIST TO PLT. CONT. HDR. TO STUD	3-8d	TOENAIL
		CLG. JOIST LAP OVER	4-8d 3-16d	TOENAIL FACE NAIL
	17.	PARTITONS	0-10 u	A PACE NAIL
	18.	CLG. JOIST PARALLEL TO RAFTERS	3-16d	FACE NAIL
	19.	RAFTER TO PLT.	3-8d	TOENAIL
		1" DIA. BRACE TO EA. STUD & PLT.	2-8d	FACE NAIL
		1X8 SHT'G. TO EA. BRG.	3-8d	FACE NAIL
	22.	WIDER THAN 1X8 SHT'G. TO BRG.	3-8d	FACE NAIL
	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
				& @ EA. SPLICE
	25.	2" PLANKS	2-16d	@ EA. BRG.
		COLLAR TIE TO RAFTER	3-10d	FACE NAIL
		JACK RAFTER TO HIP	3-10d	TOENAIL
	28.	ROOF RAFTER TO 2X RIDGE	2-16d 2-16d	TOENAIL FACE NAIL
	29.	JOIST TO BAND JOIST	3-16d	FACE NAIL
		4X BLOCKING TO STUDS	1-A34	FACE NAIL
	_ [이 이 전에 먹었다. 하고리 맛있다고요. 나오는



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ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 04 - 116504 AC RM FLS E 7/19/2018

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 118918 ACS____SS_ DATE_NOV - 7 2018

Revision Schedule

Description

STRUCTURAL GEN NOTES

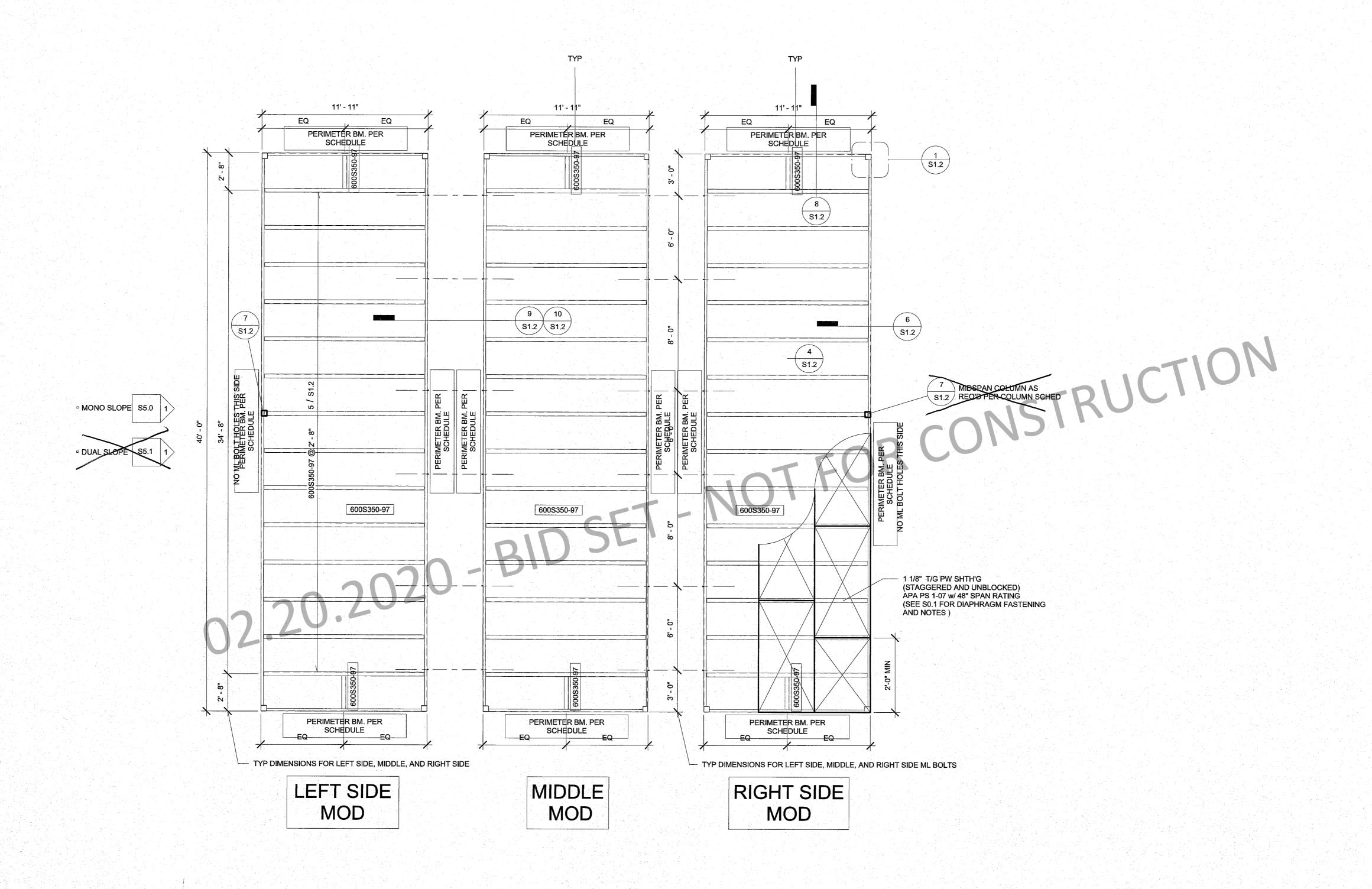
PROJECT NUMBER 17016A

DRAWN BY

CHECKED BY

2017/06/05 SHEET NO.

rMc/SC



	Perime	eter Floor Beam Schedule	
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
⊠ 9'	C8x11.5	C8x11.5	C8x11.5
□ 10'	C8x11.5	C8x11.5	C8x11.5

HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
⊠(9'	5x5X1/4	5x5X1/4	5x5X1/4
□ 10'	5x5X1/4	5x5X5/16*	5x5X5/16*
			3x3X3/16 mid-span column



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ORIGINAL PC STATE AGENCY APPROVAL FILE NUMBER: PC-128 IDENTIFICATION STAMP QIVISION OF THE STATE ARCHITECT 04 \ 116504 AC RM FLS EA SSR KER

> 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 118918 ACS___FLS__SS___ DATE__NOV - 7_20/9

Revision Schedule

Description

SHEET TITLE
WD SHTH'G FLR FRM'G PLAN (50+15 PSF)

PROJECT NUMBER 17016A

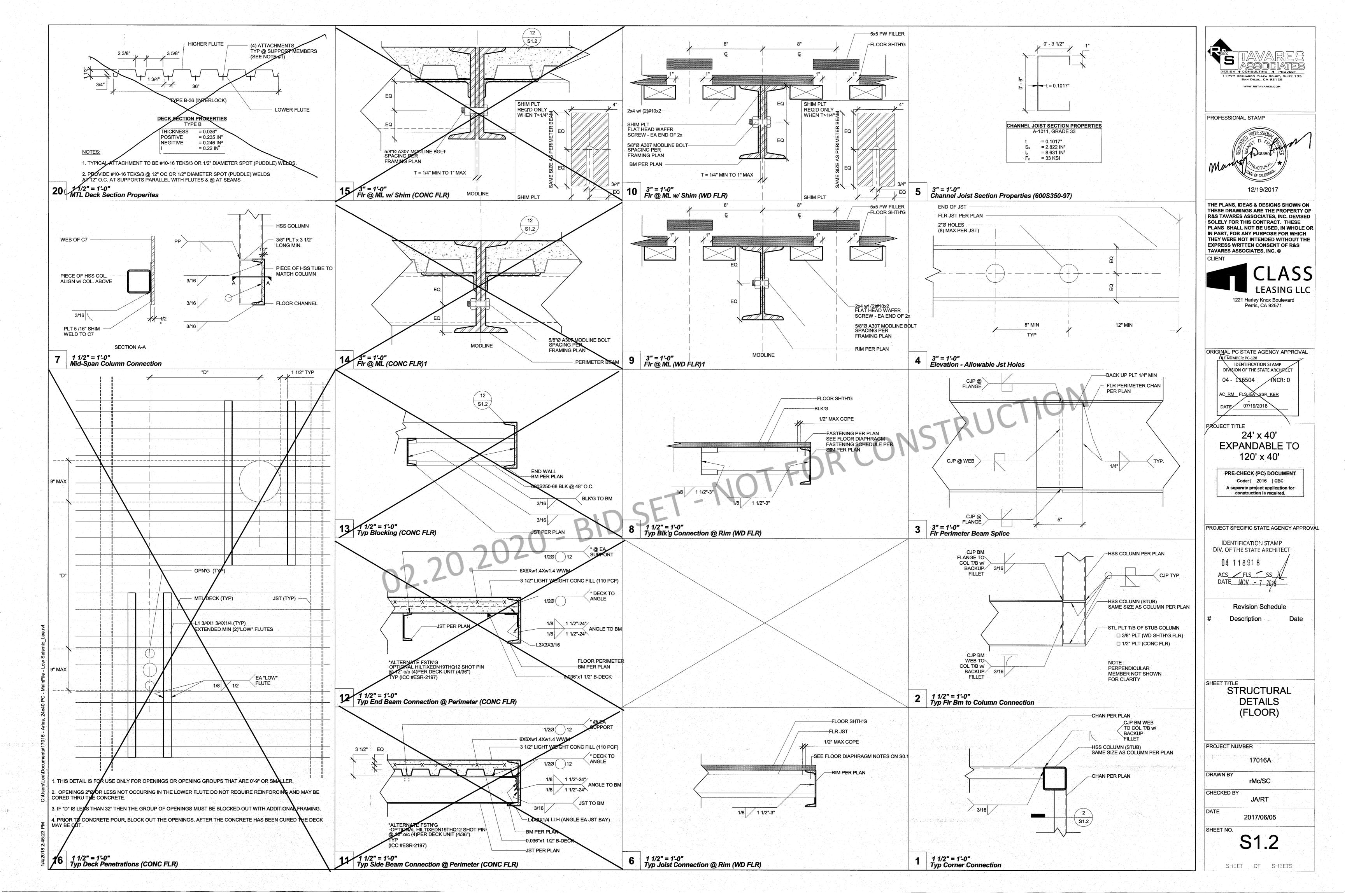
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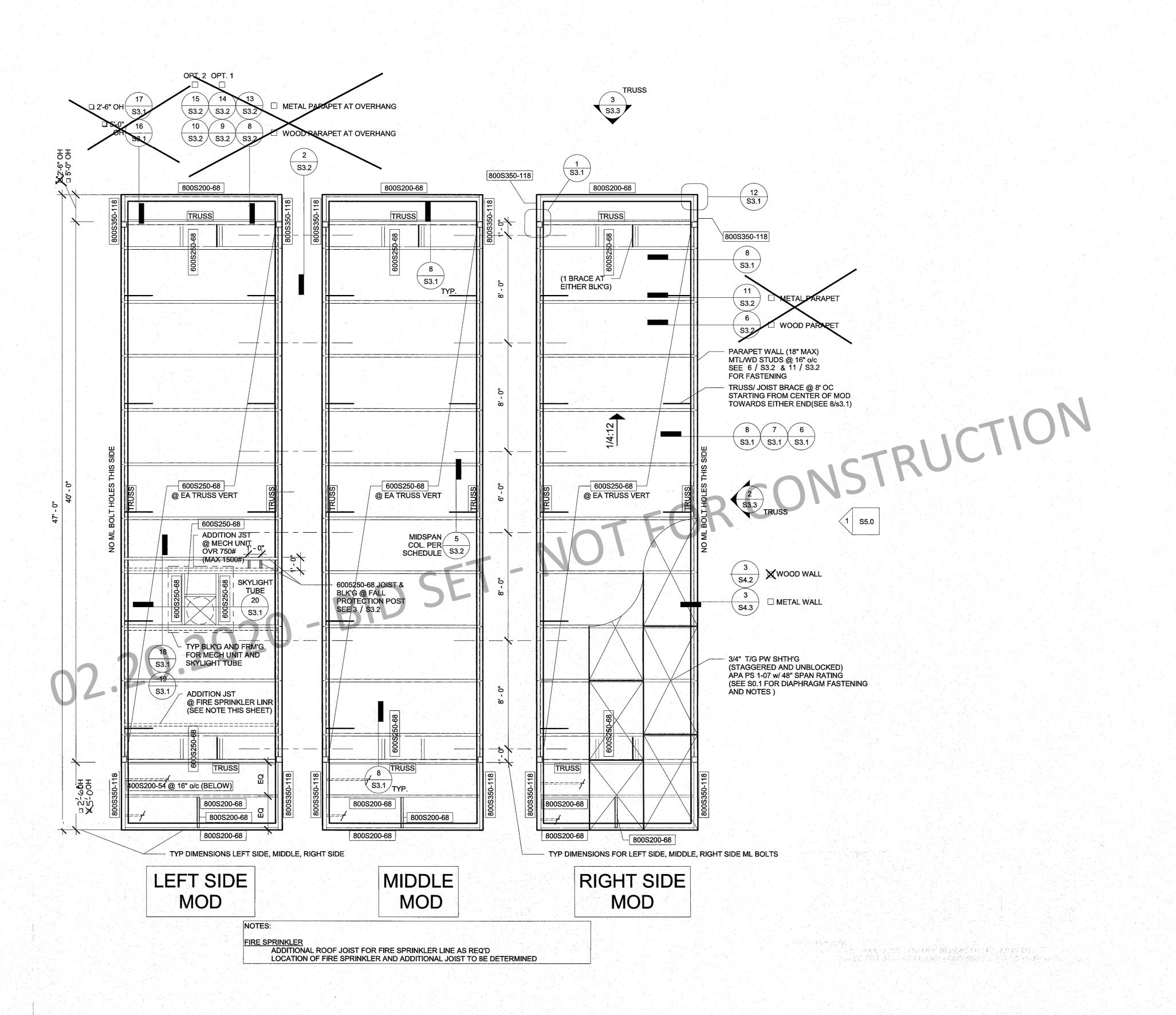
JA/RT

2017/06/05 SHEET NO. S1.0.1

SHEET OF SHEETS

1/4" = 1'-0"
WD Shth'g Fir Framing Plan (50+15 PSF)







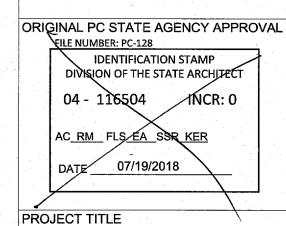
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12/19/2017

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

PRE-CHECK (PC) DOCUMENT

Code: [2016] CBC

A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

04 118918

Revision Schedule

ACS___FLS___SS___ DATE__NOV - 7 2019

Description

MONO SLOPE
ROOF FRM'G PLAN

PROJECT NUMBER

17016A

DRAWN BY

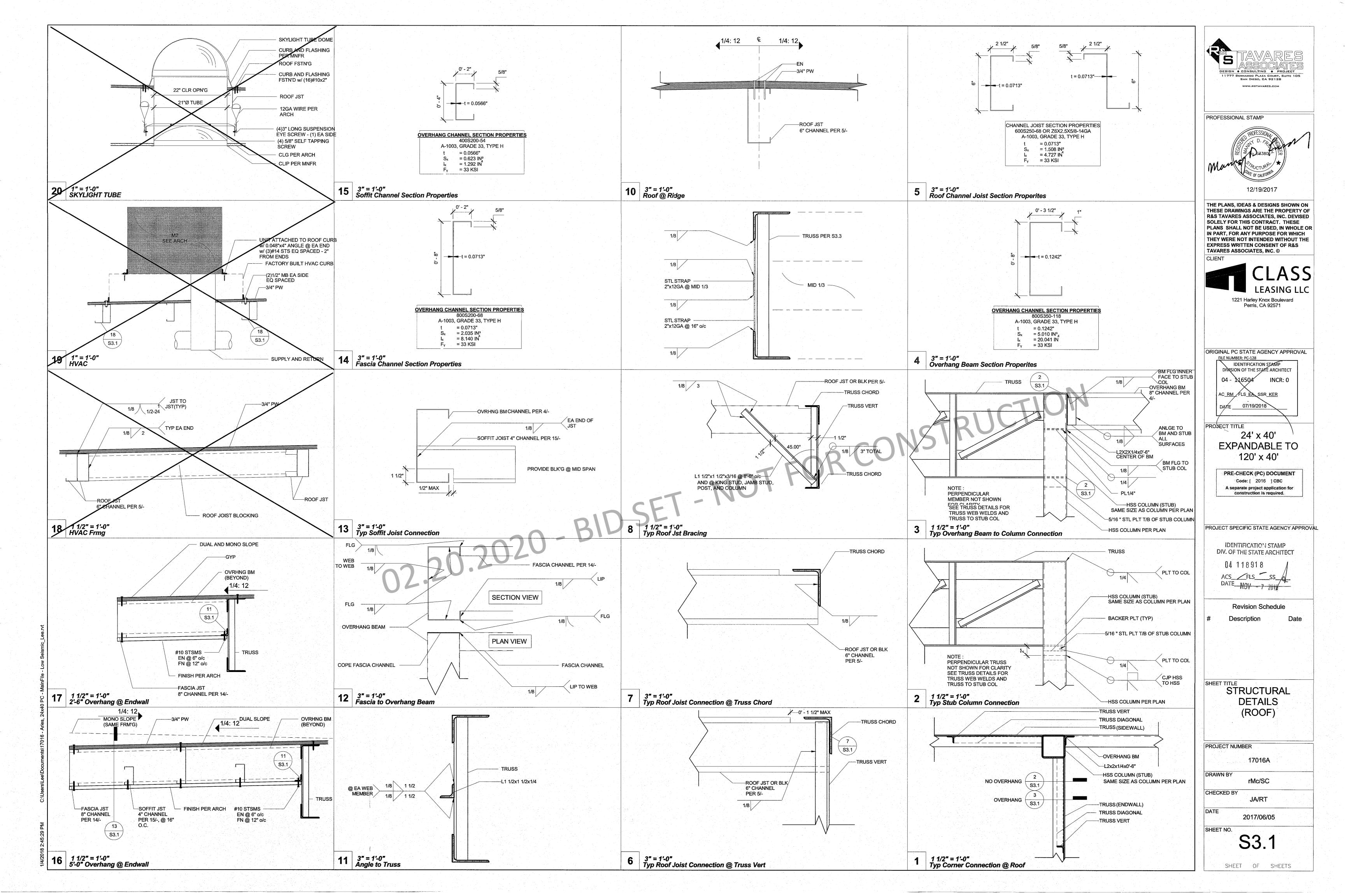
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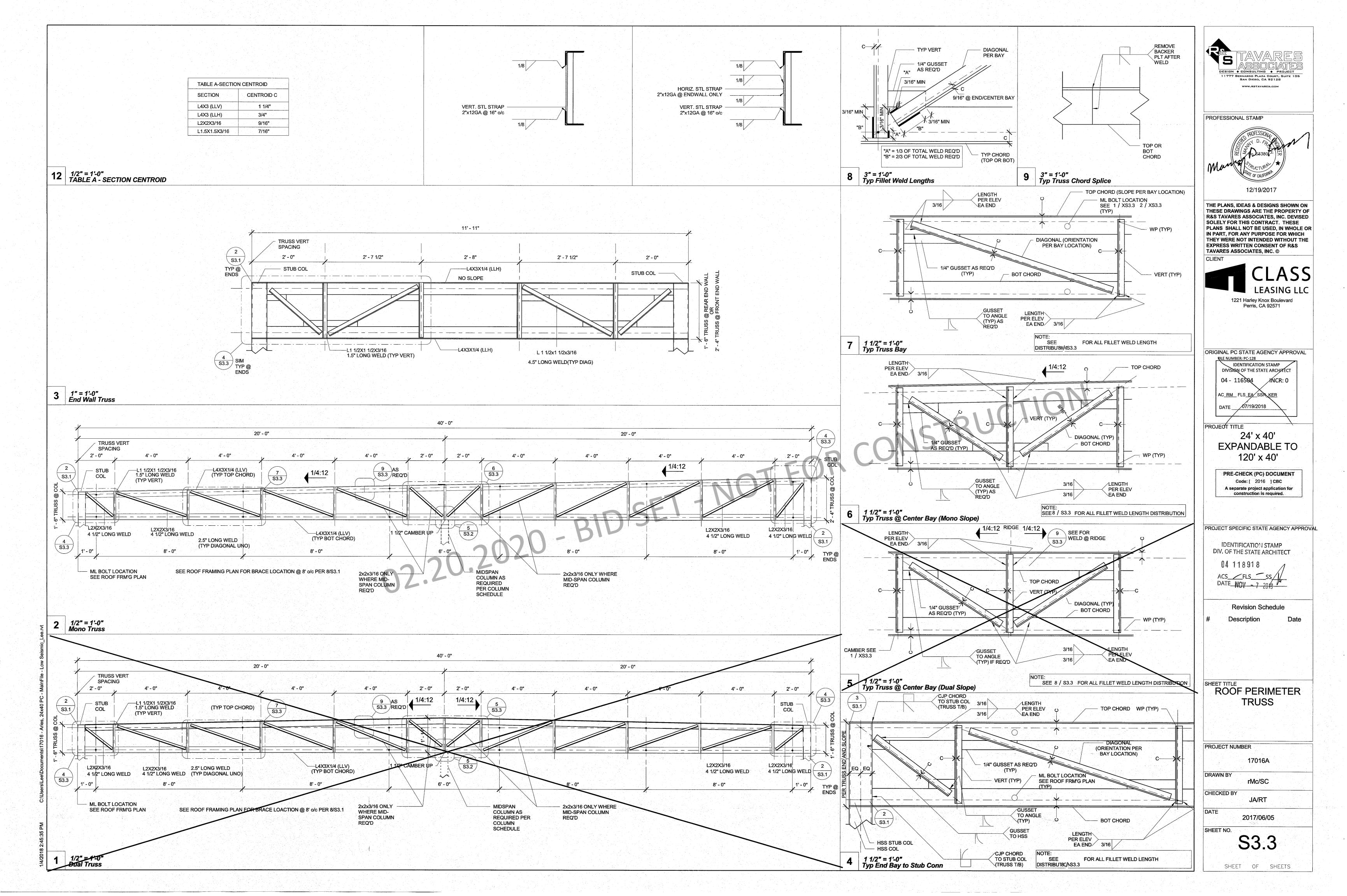
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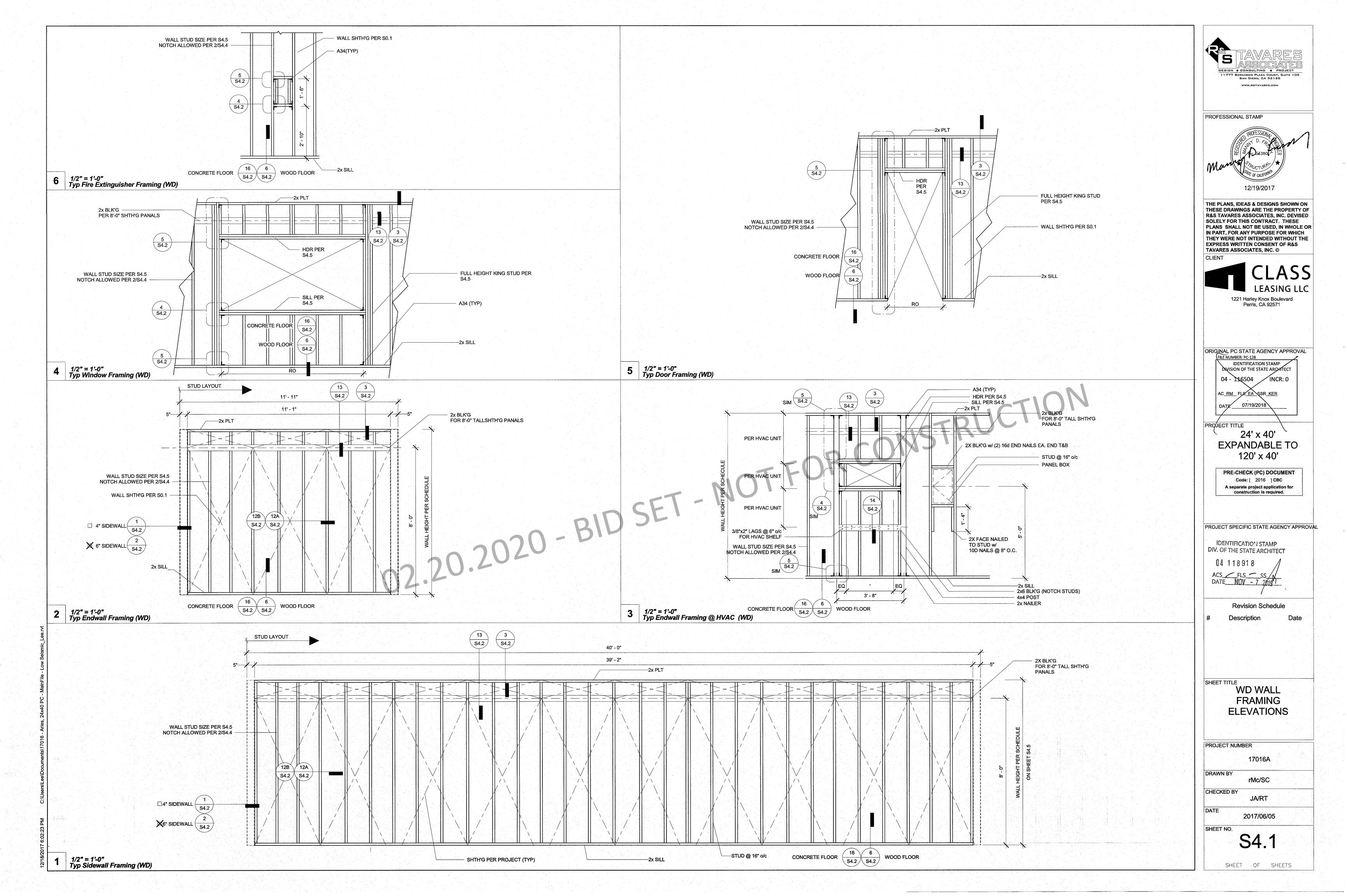
2017/06/05 SHEET NO.

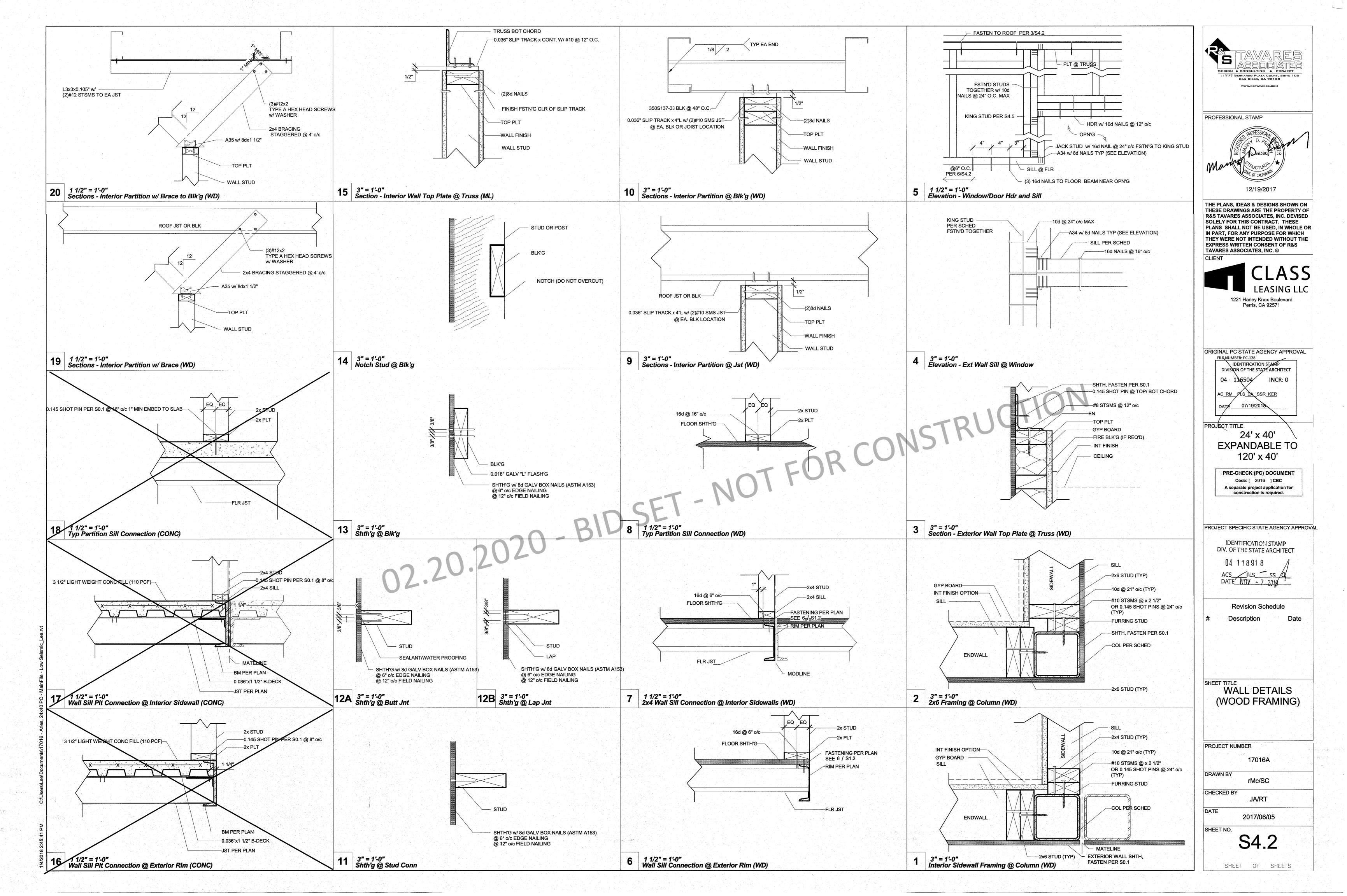
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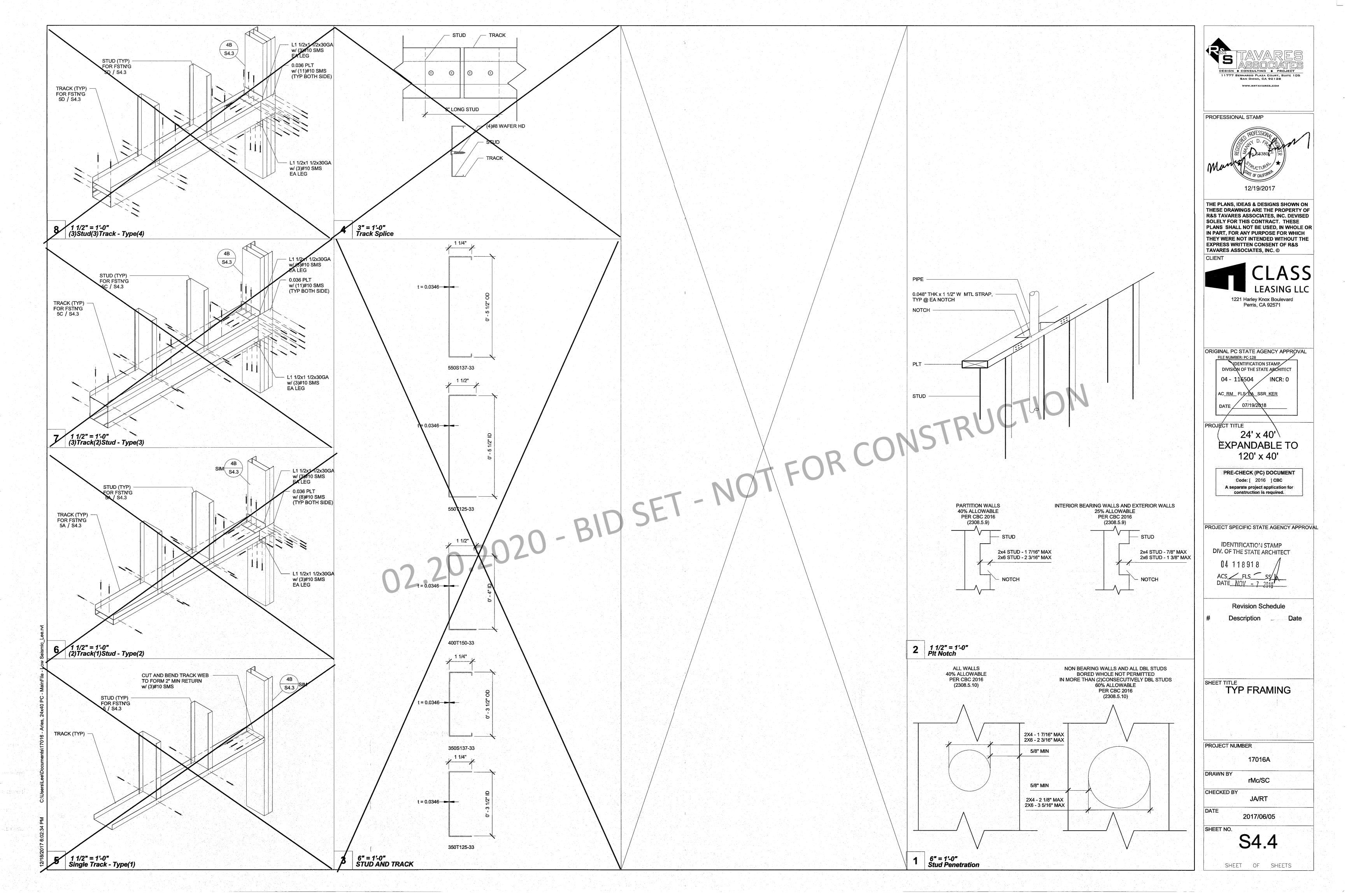
rMc/SC











+ 12				2x4 Interior	Wall Openi	ng Schedule				
COL HEIGHT	OPN'G SIZE		HDR			SILL		FULL I	IEIGHT KING	STUD
		Lumber	Number	Туре	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF	1	#2	-		-	HF	2	#2
		DF	1	#2	en 🚅 yek	_	_	DF	2	#2
	4070	HF	1	#2	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	, - , - , - , - , - , - , - , - , - , -	<u>-</u>	HF	2	#2
		DF	1	#2	- jak	-	-	DF	2	#2
	6040	HF	2	#2	DF	2	#2	HE	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 Framing Schedule								
COL HEIGHT	Typical Location				4ft From Building Corner					
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing		
	HF	1	#2	16" O.C.	-			-		
	DF	1	#2	16" O.C.	· · · · ·	-	1 - 37	· · ·		
×	HE	1	#2	16" O.C.	-					
	DF	1	#2	16" O.C.	<u>-</u>	-				
	DF	1	#2	16" O.C.	- 1			1		

			2x6 Exte	rior Wall Op	ening Sche	dule (SHTH'G	FINISH)				
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	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 Exterior Wall Framing Schedule (SHTH'G FINISH)								
COL HEIGHT	Typical Location				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.	
><	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

			2x6 Exte	rior Wall Op	ening Sched	lule (PLASTE	R FINISH)			
COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Туре
9FT	3070	NE.	1	#2	HF	1	#2	HE	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	HF		#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	QF	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	HF	1	#2	HF	2	#2
		DP	1	#2	DF	1	#2	DP	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 Exterior Wall Framing Schedule (PLASTER FINISH)									
COL HEIGHT	Typical Location				4.8ft From Building Corner					
	Lumber	Number	Туре	Snaeing	Lumber	Number	Туре	Spacing		
9	HF.	1	>#2	16" O.C.	HF	1	#2	16" O.C		
	DE	1	#2	16" O.C.	ĎĘ/	1	#2	16" 0.0		
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C		
	DF	1	#2	16" O.C.	DF	1	#2	16" 0.0		

550S137-33

16" o/c 550S137-33

□ 350 Interior Wall Opening ScheduleStuds = 350S137-33Track = 350T125-33							□ 550 Exterior Wall Opening Schedule (SHTH'G FINSIH)Studs = 550S137-33Track = 550T125-33						550 Exterior Wall Opening Schedule (PLASTER FINSIH)Stud = 550S137-33Track = 550T125-33											
Col Opn'g Ht Size	HDR			SILL	FU	JLL HEIGH	IT KING STUD	Col	Opn'g	HDR			SILL	FULL HEIGH	IT KING STUD	Col	Opn'g		HDR		SILL	FULL H	EIGHT	KING STUD
Ht Size	Type Refe	erence	Туре	Reference	Тур	e Num	n. Size	Ht	Size Typ	e Refe	erence	Туре		Type Num	ı. Size	Ht	Size	Туре		Туре		Туре	Num.	8ize
3070	1	5	N/A	N/A	Stu	d (2)	350\$137-33		3070 1	5		N/A	N/A	Stud (2)	550S137-33		3070	1	5	N/A	N/A	Stud	(2)	550S137-33
9'- 0"	1	5	N/A	N/A	Stu	d (2)	350\$137-33	9'- 0"	4070 1	5	- 8	N/A	N/A	Stud (2)	550S137-33	9'- 0"	4070	1	5	N/A	N/A	Stud	(2)	550S137-33
6040	2	6	2	6	Stu	d (3)		20	6040 2	6		2	6	Stud (3	550S137-33		6040	2	6	2	6	Stud	(3	550\$137-33
8040	3	8	3	8	Stud	d (3)	350S137-33		8040 3	6		3	6	Stud (3)	550S137-33		8040	3	6	3	6	Stud	(3	550S137-33
3070	1	5	N/A	N/A	Stu	d (2)	350S137-33		3070 1	5		N/A	N/A	Stud (2)	550\$137-33		3070	1	5	N/A	N/A	Stud	(2)	550S137-33
4070	2	5	N/A	N/A	Stud	d (2)	350S137-33	10'- 0"	4070 2	5		MA	N/A	Stud (2)	550S137-33	10'- 0"	4070	2	5	N/A	N/A	Stud	(2)	550S137-33
6040	2	6	2	6	Stu	g (3)	350\$137-33		6040 2	6		2	6	Stud (3)	550\$137-33	10-0	6040	2	6	2	6	Stud	(3	550S137-33
8040	4	8/	4	8	Stu	d (4)	350S137-33		8040 4	6		4	6	Stud (4)	550S137-33		8040	4	6	4	6	Stud	(4)	550S137-33
□ 350 Interior Wall Framing Schedule (SHTH'G FINISH)																								
Column Height Typ Wall Framing 4' From Corner Stud Size Number Type Spacing Lumber Number Type Spacing							Spacing	C	Column Height Typ Wall Framing 4' From Corner Stud Size Number Type Spacing Lumber Number Type Spacing						Column Height Typ Wall Framing 4' From Corner Stud Size Number Type Spacing Lumber Number Type Spacing									
9 '- 0"	350S137-3	33 (1)	Stud 16	6" o/c -		-			9'- 0"	550S137-33	(1)	Stud 16'	" o/c 550S137-33 (1) Stud	16" o/c		9'- 0"	55	0S137-33 (1)	Stud 16'	o/c 550S137-33	(1) S	Stud	16'0/c

550S137-33

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

WWW.RSTAVARES.COM

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

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 118918

ACS___FLS___SS___
DATE__NOV__- 7_2019

Revision Schedule

Description Date

TTITLE

FRAMING SCHEDULES

PROJECT NUMBER

17016A

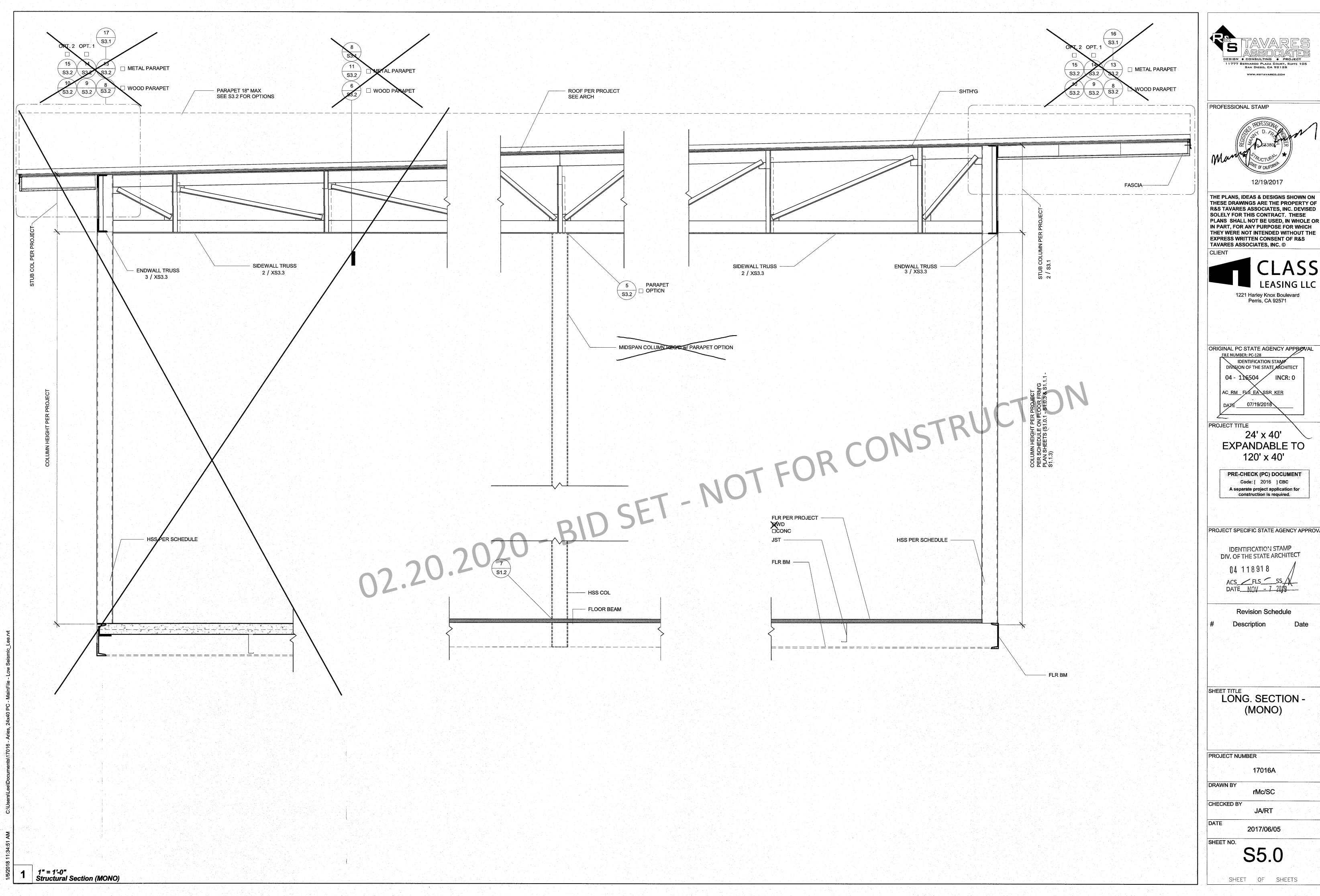
rMc/SC

CHECKED BY

JA/RT

DATE 2017/06/05

SHEET NO. S4.5



PROJECT SPECIFIC STATE AGENCY APPROVAL

NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40

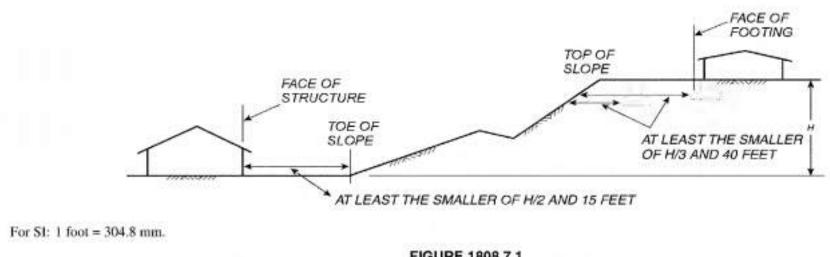


FIGURE 1808.7.1 FOUNDATION CLEARANCES FROM SLOPES

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

KEY PLAN VENTING SCHEDULE <u>VENT "A1" (SIDEWALL):</u> 3'-6" x 6" = <u>1.75 S.F. VENTILATION</u>

20.2020 - BID SET - NOT FOR CONS (2) 16d NAILS SILL TO BASE CONNECTION

FOR 50+15 SEE 7 / F1.10 **ENDWALL** SIDEWALL SEPERATION 12" O.C 12" O.C

TIE PLATE SCHEDULE

SIDE WALL

*16D "COMMON" NAIL CAN BE USED IN LIEU OF 16D "BOX" NAIL FOR SILL PLATE FASTENING.

6 | 1/4" = 1'-0" NAILING SCHEDULE FOR 50+15

WOOD FOUNDATION PLATE SCHEDULE														
50 + 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						
ТОР	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

9 1/4" = 1'-0" KEY PLAN VENTING SCHEDULE FOR 50+15 PSF

8 1/4" = 1'-0"
WOOD FOUNDATION PLATE SCHEDULE FOR 50+15

1/4" = 1'-0" TIE PLATE SCHEDULE FOR 50+15

36x40

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

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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 <u>07/19/2</u>018

PROJECT TITLE

FILE NUMBER: PC-128

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

PRE-CHECK (PC) DOCUMENT A separate project application for

PROJECT SPECIFIC STATE AGENCY APPROVAL

Revision Schedule

Description

WOOD **FOUNDATION NOTES SCHED** FOR BLDG W/ 50+15

PROJECT NUMBER

17016A

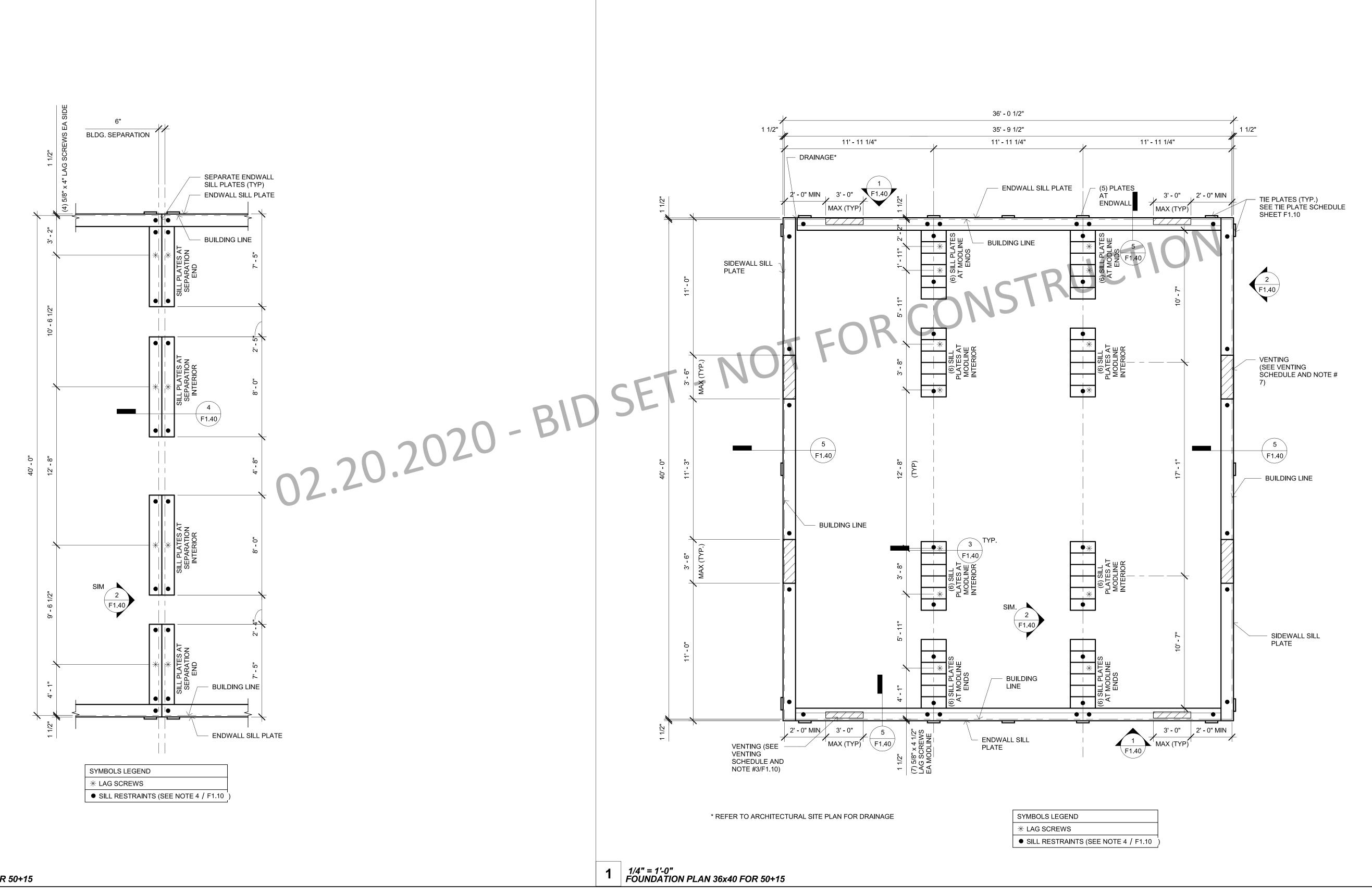
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2017/06/05

F1.10 SHEET OF SHEETS

1/16" = 1'-0" 50+15 VENTING LAYOUT

3 | 1/4" = 1'-0" | FOUNDATION SETBACKS





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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 <u>07/</u>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

Revision Schedule

Description

SHEET TITLE WOOD FOUNDATION 36x40 BLDG W/ 50+15

PROJECT NUMBER 17016A

DRAWN BY rMc/SC

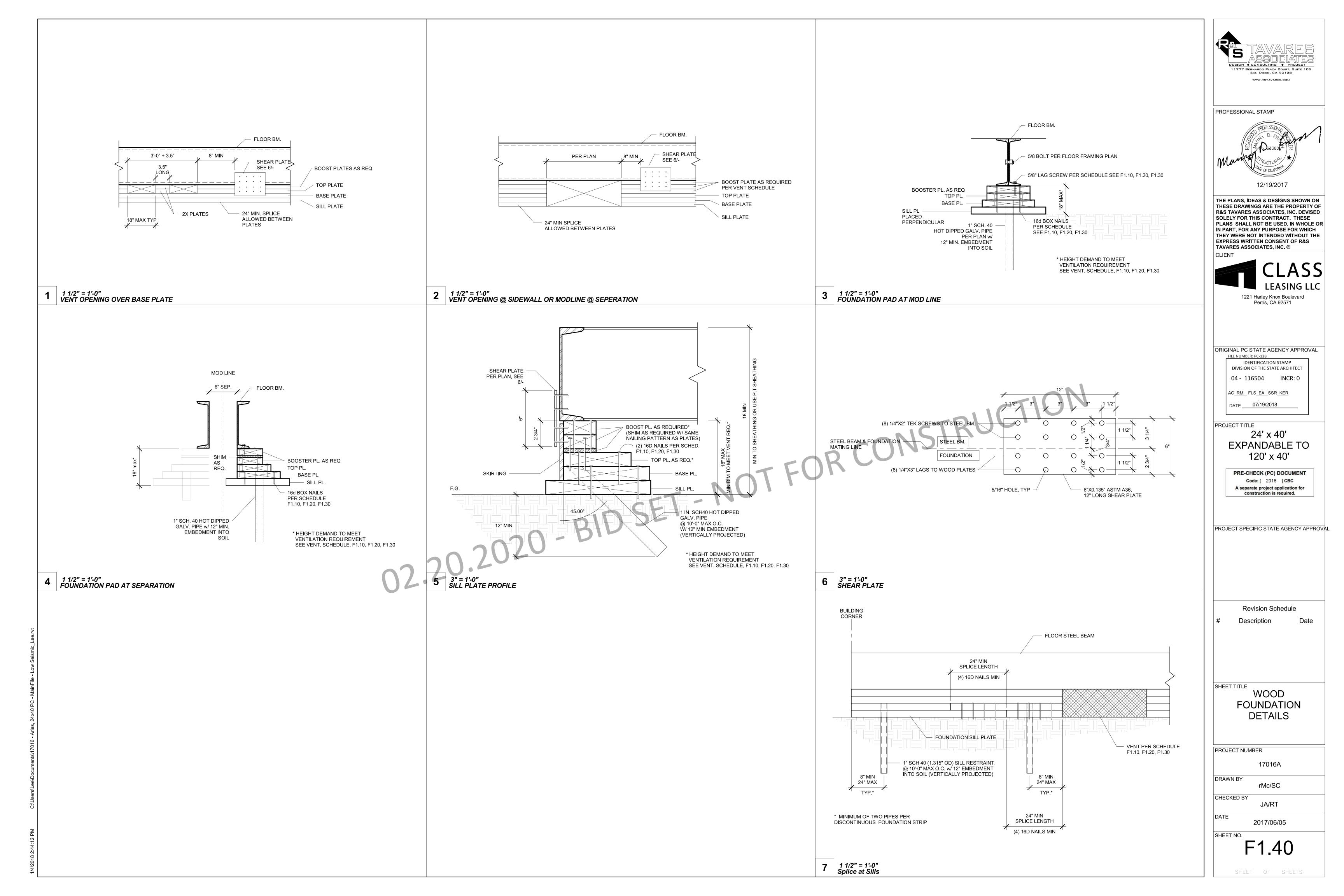
CHECKED BY JA/RT

DATE 2017/06/05

F1.12

SHEET OF SHEETS

2 | 1/4" = 1'-0" FOOTING AT SEPARATION 36x40 FOR 50+15



PARTIAL LIST OF APPLICABLE CODES AS OF JULY 1, 2014

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

*CALIFORNIA ADMINISTRATIVE CODE, PART1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

GENERAL NOTES

ELEVATORS AND ESCALATORS

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

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) SOIL ALLOWABLE BEARING: 1,000 PSF (4.8 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 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).

5) 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

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

(plan view 2/SR1) option 3: ramp and platform landing (plan view 3/SR1)

option 4 : ramp and landing with switch back ramp (plan view 4/SR1)

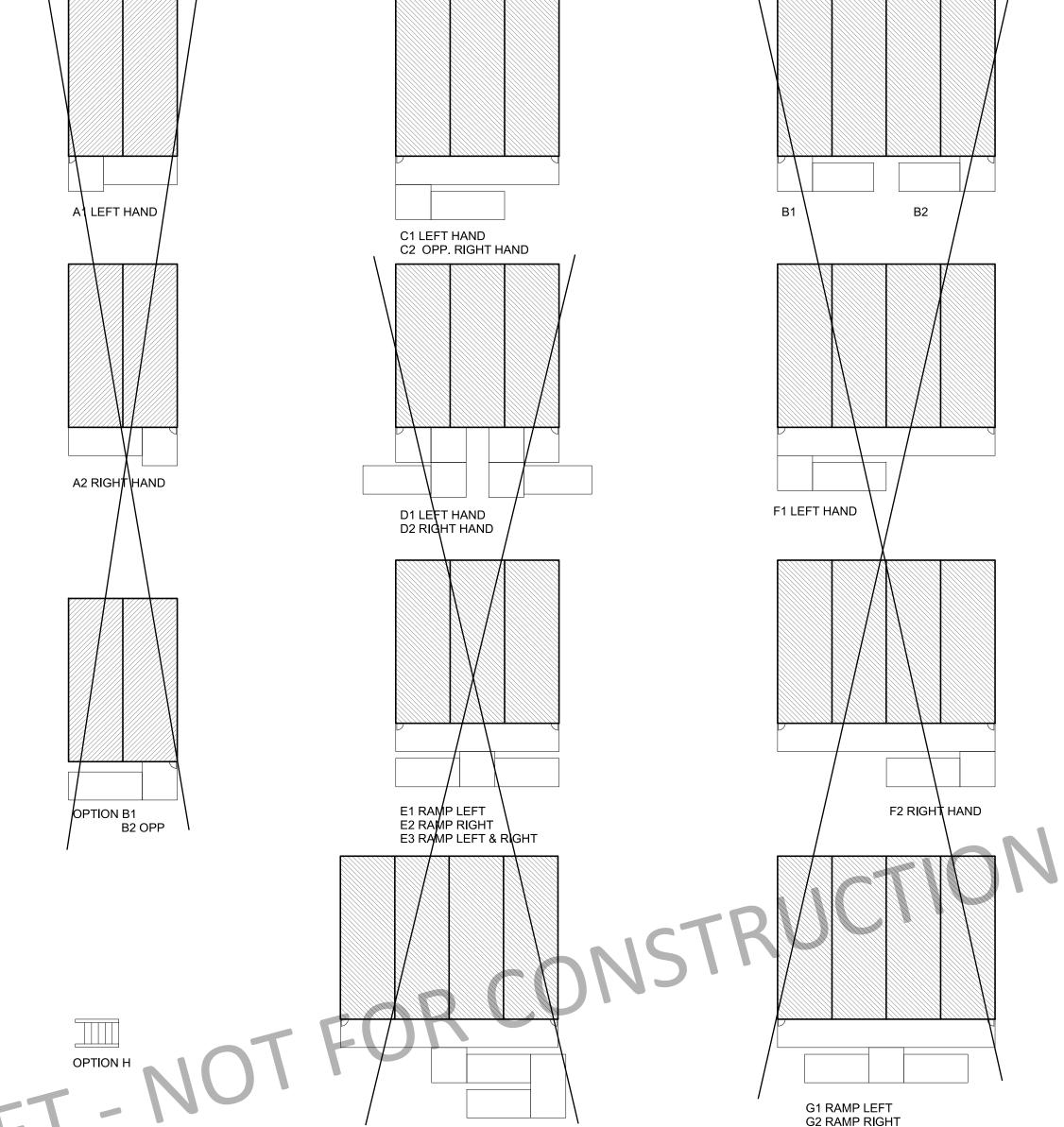
option 2 : ramp and landing with offset ramp

24x40

Ramp Option Schedule:

(plan view 1/SR1)

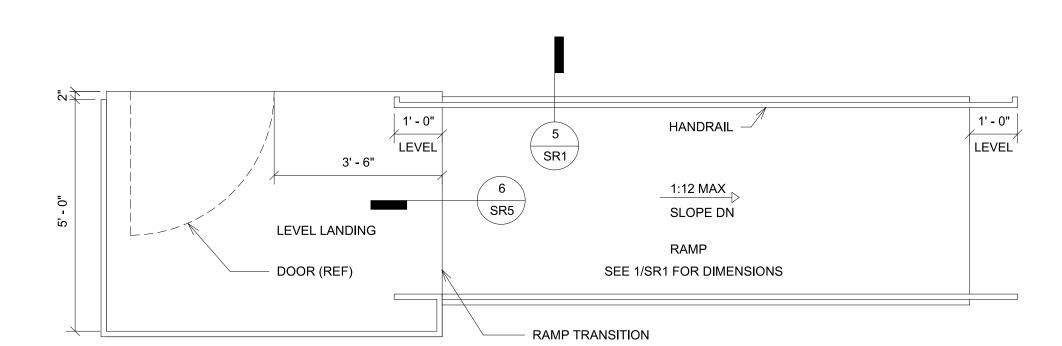
option1 : ramp & landing @ building



36x40

Uptions w/ Difte. Ramps Options w/ Different Building Sizes

3 | 1/2" = 1'-0" Standard Ramp



G4 RAMP CENTER

G3 RAMP LEFT & RIGHT

SEE 1/SR2 FOR DIMENSIONS ☐ FLUSH TRANSITION RAMP OPTION ☐ ZERO TRANSITION RAMP OPTION

DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE

PROFESSIONAL STAMP



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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<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

PROJECT NUMBER

17016A DRAWN BY

CHECKED BY

DATE 05/04/2017

SHEET OF

SR0

