DISTRICT SUPPORT SERVICES BUILDING FOR THE GRASS VALLEY SCHOOL DISTRICT



SCOPE: A NEW DISTRICT SUPPORT SERVICES OFFICE BUILDING FOR THE GRASS VALLEY SCHOOL DISTRICT. LOCATED ON AN ADMINISTRATIVE CAMPUS CONSISTING OF (3) EXISTING RELOCATABLE BUILDINGS TO FORM (1) NEW BUILDING WITH A NEW SEPTIC SYSTEM. ADMINISTRATIVE/COMMUNITY SERVICES STAFF ONLY.

GRASS VALLEY, CA 95945 APN:29-030-02

OWNER: GRASS VALLEY SCHOOL DISTRICT BRIAN MARTINEZ GILMORE WAY,

ZONING: P

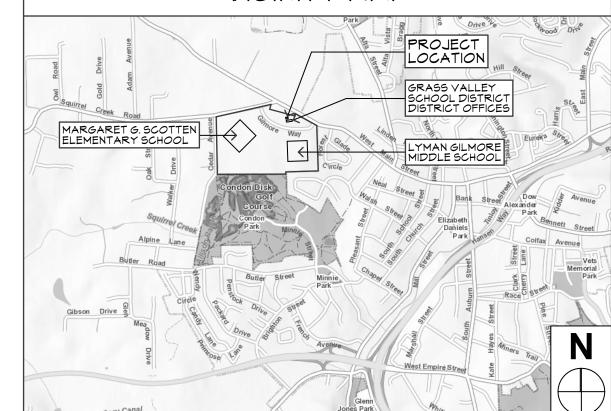
OCCUPANCY: A-3 & B

TYPE: V-B, NON-SPRINKLERED

FOOTAGE: CONDITIONED SPACE:

2,880 SQ. FT.

VICINITY MAP



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PROJECT INFORMATION NO STUDENTS OR TEACHERS OCCUPY THE BUILDING.

DIRECTOR OF PROJECTS (FACILITIES) GRASS VALLEY, CA 95945 (530) 273-8723

CONSTRUCTION

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Revisions

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Architecture - Al

designs, plans and specifications are

architecture

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6/9/16

NO SCALE 15-397

COVER SHEET PROJECT INFORMATION

GENERAL NOTES

ALL MORK SHALL CONFORM TO THE 2013 CBC AND THE CURRENT EDITIONS OF THE CMC, CPC, CEC, CGSBC, CALIFORNIA ENERGY REGULATIONS, AND ALL LOCAL CODES AND

DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS.

VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK, NOTIFY ARCHITECT OF ANY

SPECIFICATIONS, DRAWINGS, AND DETAILS TAKE PRECEDENCE OVER THESE GENERAL

DISCREPANCIES PRIOR TO PROCEEDING. CONTRACTOR SHALL PROVIDE SUBMITTALS TO OWNER AND ARCHITECT ON ITEMS AND SYSTEMS WHERE ALTERNATES ARE AVAILABLE IN DESIGN, COLOR, FABRICATION, ETC. THIS INCLUDES, BUT IS NOT LIMITED TO: METAL RAILINGS, CABINETRY, PLASTIC PANELING,

PAINT, APPLIANCES, FIXTURES, PLUMBING FIXTURES, WIRING DEVICES, AND LIGHTING. JNLESS NOTED OTHERWISE, DIMENSIONS ARE TO FACE OF STUD AT NEW CONSTRUCTION

ROOFING, SIDING, DOORS, WINDOWS, DOOR HARDWARE, LOUVERS, VENTS, FLOORING,

AND FACE OF FINISH AT EXISTING CONSTRUCTION. CEILING HEIGHT NOTATIONS INDICATE FINISH CEILING SURFACE.

DO NOT PROCEED WITH SHOP FABRICATION PRIOR TO OBTAINING FIELD DIMENSIONS. THE MORK IN THE BUILDER'S CONTRACT MITH THE OMNER SHALL INCLUDE ALL MATERIALS EQUIPMENT, AND LABOR REQUIRED TO COMPLETE THE WORK AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. ANY CUSTOMARY AND NECESSARY ITEMS WHICH ARE REASONABLY

SHOWN IN THE DRAWINGS OR SPECIFICATIONS. FURNISH AND INSTALL SUPPORT BRACKETS, BACKING, AND STIFFENERS AS REQUIRED AT

IMPLIED AND REQUIRED TO COMPLETE THE WORK SHALL BE FURNISHED, EVEN IF NOT

ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS WELL AS FIXTURES AND ACCESSORIES.

DO NOT MODIFY, CUT, OR OTHERWISE COMPROMISE THE INTEGRITY OF STRUCTURAL

ELEMENTS WITHOUT WRITTEN CONSENT AND GUIDANCE FROM THE STRUCTURAL ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION CERTIFYING THE WORK CONFORMS TO TITLE 24 REQUIREMENTS AND THE ENERGY COMPLIANCE DOCUMENTATION FOR THE

PROVIDE A MINIMUM 42" HIGH GUARD RAIL AT ANY LOCATION WHERE SURFACE OF WALKWAY IS MORE THAN 30" ABOVE ADJOINING GRADE. PROVIDE INTERMEDIATE RAILS SPACED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH.

UNLESS NOTED TO BE EXPOSED CONSTRUCTION ON FINISH SCHEDULE, DO NOT EXPOSE

NHERE REQUIRED TO MAINTAIN CONTINUITY OF FIRE RESISTIVE ASSEMBLIES, CONTINUE GYPSUM BOARD OR OTHER FINISH MATERIALS BEHIND ALL RECESSED ACCESSORIES, CABINETS, AND PANELS.

PROVIDE AN ACCESS DOOR (MIN. 18" X 24") WITHIN 20'-0" OF THE MAIN PLUMBING

AT DOORS ADJOINING WALLS, LAYOUT DOOR INSTALLATION TO PROVIDE MINIMUM 4" CLEARANCE BETWEEN WALL SURFACE AND FACE OF DOOR IN 90 DEGREE OPEN POSITION, UNLESS NOTED OTHERWISE.

CONNECT ALL DOWNSPOUTS TO SUB-SURFACE DRAINAGE PIPING.

FOR PROJECTS WITH PRE-FABRICATED TRUSSES, REFER TO FABRICATOR'S DRAWINGS

PROVIDE CONTINUOUS VENTING AT ALL RIDGES.

PROVIDE SUSPENDED EQUIPMENT WITH SUFFICIENT LATERAL BRACING

ALL MECHANICAL EQUIPMENT, AIR CONDITIONING UNITS, HEATING UNITS, AND UTILITIES SHALL BE SCREENED FROM THE VIEW OF ADJACENT PROPERTIES OR ROADWAYS, ALL GUTTERS. SCREENS, VENTS, AND FLASHING SHALL BE PAINTED TO PREVENT GLARE AND TO MATCH ADJACENT BUILDING COLORS.

DIVISION 2 - SITEMORK

COMPLETED GRADING SHALL RESULT IN A MINIMUM 5% SLOPE AWAY FROM ALL BUILDING MALLS AT UNPAVED AREAS, A MINIMUM DISTANCE OF 5'-0", AND 2% SLOPE AWAY FROM ALL BUILDING WALLS AT WALKS, PATIOS, DRIVEWAYS, AND SOLID DECKING SURFACES AND STAIR LANDINGS.

PROVIDE ADDRESS NUMERALS FOR ALL NEW BUILDINGS. LOCATE TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET FRONTING THE PROPERTY.

DIVISION 5 - METALS

PROVIDE GALVANIC ISOLATION BETWEEN DISSIMILAR METALS

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

PROVIDE FLASHING AT INTERSECTION OF ROOF PLANES AND WALLS, ALL ROOF PENETRATIONS, ALL EXTERIOR OPENINGS, AND AT CHIMNEYS.

ATTIC AND UNDERFLOOR AREAS SHALL BE PROVIDED WITH VENTILATING AREA PER CBC 1203 AND/OR 706A. ALL OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT

PROVIDE MINIMUM 12" BETWEEN CENTER OF ROOF VALLEY FLASHINGS AND CENTER OF

ANY ROOF PENETRATION FLASHINGS. FLASH, CAULK, AND SEAL WHERE SHOWN IN DRAWINGS AND WHERE REQUIRED TO PREVENT THE INFILTRATION OF MOISTURE.

PROVIDE FLASHING SET IN CAULKING BED UNDER THRESHOLDS AND SILLS, DOWN AND OVER EXTERIOR WALL FINISH.

PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING ACCEPTABLE TO THE LOCAL FIRE MARSHALL. DIVISION 8 - DOORS AND WINDOWS

INSTALL GASKETING, WEATHERSTRIPPING, ETC AT EXTERIOR DOORS AND DOORS OPENING TO UNCONDITIONED AREAS.

DIVISION 9 - FINISHES

WHERE FINISHES ARE NOT DETAILED, WORK SHALL CONFORM TO THE BEST PRACTICES OF

DIVISION 11 - EQUIPMENT PROVIDE 30 INCHES CLEARANCE ABOVE RANGE TO UNPROTECTED COMBUSTIBLE

MATERIAL OR 24 INCHES CLEARANCE ABOVE RANGE OR OPEN TOP BROILER WHEN

ALL ROOF FLASHING TO BE PAINTED TO MATCH ROOFING COLOR.

EQUIPPED WITH METAL VENTILATING HOODS.

OWNER PRIOR TO BEGINNING INSTALLATION.

DIVISION 15 - MECHANICAL AND PLUMBING

PROVIDE CATWALK ACCESS TO ATTIC-MOUNTED HVAC EQUIPMENT FROM ATTIC ACCESS

PROVIDE LIGHTING WITH SWITCH AND SERVICE OUTLET AT CRAWL SPACE ACCESS AND

ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL PLANS WITH CONTRACTOR AND

ARCHITECT'S STATEMENT

Statement of General Conformance FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS. INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER

LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. File No.

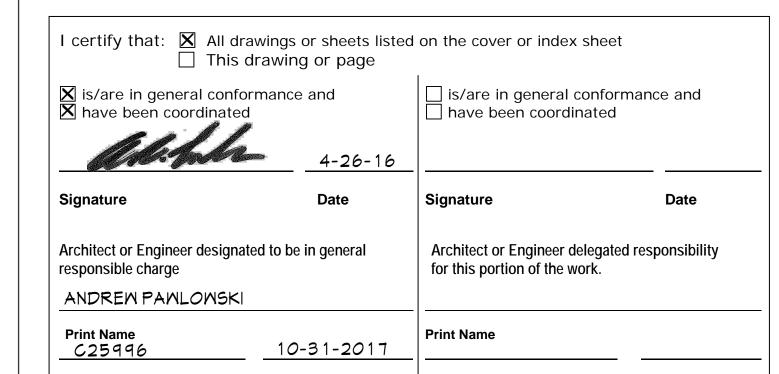
The drawings or sheets listed on the cover or index sheet ☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been

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

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

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



PROJECT DIRECTORY

OWNER: GRASS VALLEY SCHOOL DISTRICT BRIAN MARTINEZ DIRECTOR OF PROJECTS (FACILITIES) 10840 GILMORE WAY GRASS VALLEY, CA. 95945

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(E) meg.hobbs@spectral engineering.com MECHANICAL ENGINEER: MELAS ENERGY ENGINEERING MICHAEL MELAS LIC. # M 26789 547 UREN ST, NEVADA CITY, CA. 95959 (T)(530)265-2492 (F)(530)265-2273

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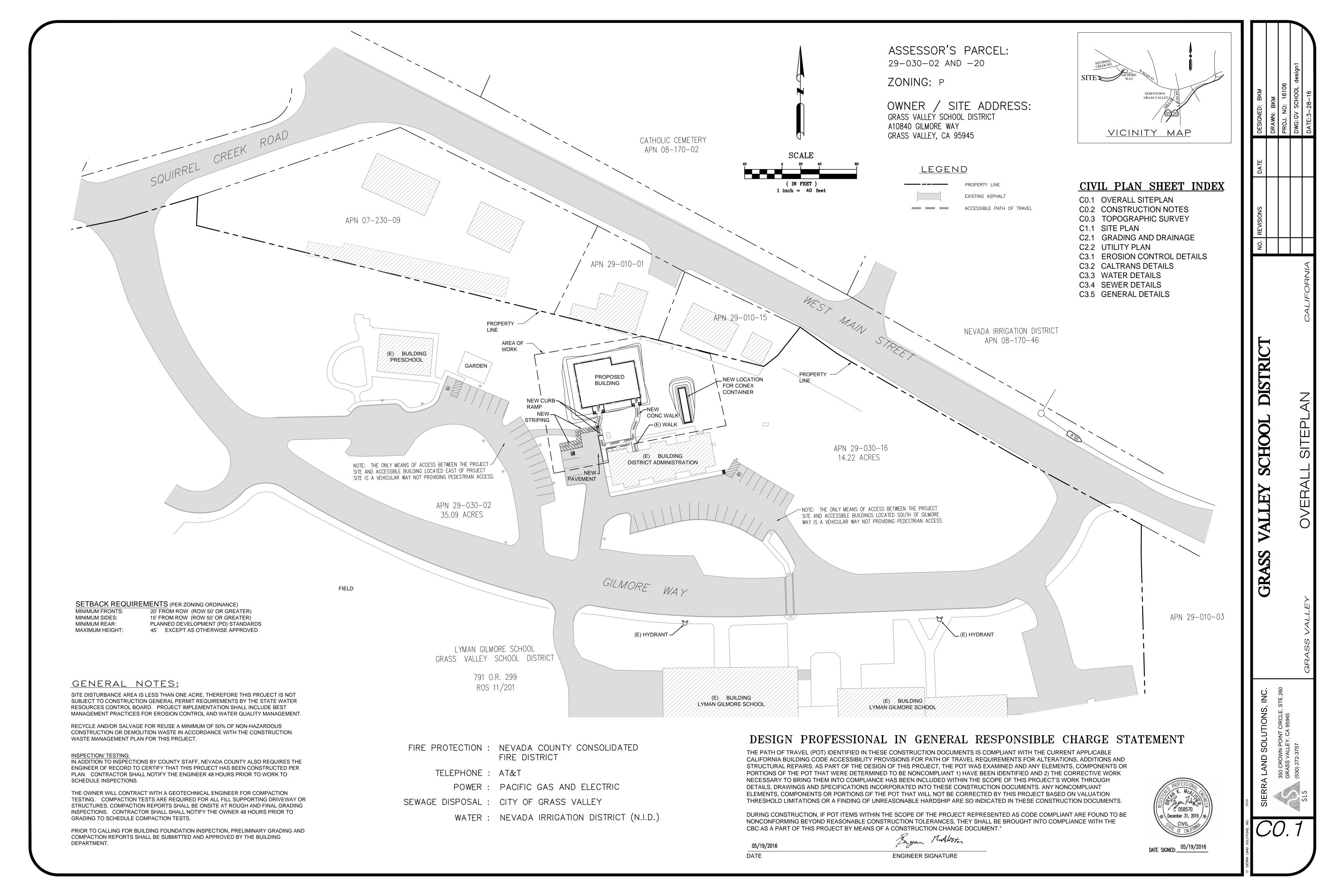
EO.1 LEGEND, NOTES & SINGLE LINE DIAGRAMS SCHEDULES & DIAGRAMS SITE ELECTRICAL PLAN LIGHTING PLAN POWER PLAN TITLE 24 LIGHTING

E5.3 TITLE 24 LIGHTING E5.4 TITLE 24 LIGHTING

PO.1 PLUMBING NOTES AND SCHEDULES P1.1 PLUMBING PLAN - W & V P1.2 PLUMBING PLAN - WATER

ENERGY COMPLIANCE DRAWINGS: T-24-1 ENERGY COMPLIANCE

13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



GENERAL NOTES:

THESE NOTES COVER THE REQUIREMENTS FOR CONSTRUCTION OF THIS PROJECT REFERENCES TO THE CALTRANS STANDARD SPECIFICATIONS ARE FOR TECHNICAL CONTENT ONLY. METHODS OF MEASUREMENTS AND PAYMENT FOR THIS WORK ARE TO BE INDEPENDENTLY AGREED UPON BETWEEN THE OWNER AND THE CONTRACTOR AND ARE NOT COVERED BY THESE NOTES OR BY REFERENCES TO THE STANDARD SPECIFICATIONS.

Unless otherwise noted, all construction is on lands of the owner, in public rights—of—way, or in easements obtained by the owner or public agencies. The contractor shall obtain the required encroachment permits from the appropriate public agencies. Where work is located in easements traversing lands other than those of the owner, the contractor shall make all appropriate notifications and confine his operations within the easement boundaries.

All materials and construction shall meet the requirements of the following specifications, codes and these improvement plans. The adopted standards of the governing agency shall govern in case of conflict.

State of California, Department of Transportation, 2015 Standard Specifications (Herein called standard specifications) and 2015 Standard Plans.

California Uniform Building Code: 2013 (Current Edition).

Nevada County Standards: Current Edition

Nevada Irrigation District Development Standards and Standard Details, Current Edition

All work must comply with current California Building Codes for Accessibility Chapter 11, CBC and Department of State Architect (DSA) Policies and Procedures.

It is the responsibility of the contractor to obtain copies of these specifications and codes and have them available at the work location at all times. The contractor shall examine and become familiar with all parts of these specifications and codes that apply to this work. In general, the applicable sections of agency specifications and the standard specifications are not repeated in these notes. It is the contractor's responsibility to construct all facilities in accordance with the applicable agency requirements and the standard specifications.

No grading disturbance shall occur between October 15 and May 1 without prior written approval of the Nevada County Building Department.

The types, locations, sizes and depths of existing underground utilities as shown on the plans were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such such underground facilities. A reasonable effort has been made to locate and delineate all known underground facilities. However, neither the owner nor the Engineer can assume any responsibility for the completeness or accuracy of the delineation of such underground facilities nor for the existence of other buried objects or facilities which may be encountered but are not shown on these plans.

The contractor is responsible for contacting the utility companies or appropriate agencies with facilities in the area, and requesting a verification at the construction site where such utilities may conflict with the placement of improvements shown on these plans.

All existing utilities shall be marked prior to beginning any excavation or trenching. Contact the Underground Service Alert at 800-642-2444 for the marking of existing utility locations.

The contractor shall immediately notify the Engineer if there is a conflict between any existing utilities and new construction as shown on these plans.

Construction staking will be provided by the owner.

The contractor shall make arrangements for construction stakes at least three working days in advance of when the stakes are needed.

All stakes shall be preserved by the contractor until they are no longer needed. The contractor shall pay the cost of replacing any stakes damaged or destroyed.

All construction shown on these plans, unless otherwise noted, requires inspection by the appropriate agencies. The contractor shall notify the appropriate agency three days prior to commencement of work and continue this notification process if there are any delays between construction phases.

When the contractor's operations temporarily interfere with the existing flow of sewage, water, gas, electricity, telephone communication, or the operation of any other utility, the contractor shall provide, or make arrangements for satisfactory bypass facilities.

The contractor shall request permission to interfere with said utilities by applying to the related utility and shall comply with their recommendations and ordinances in each case. Said bypass facilities shall be so constructed as to provide a noninterruptive service of said utility.

The contractor shall comply with all applicable occupational safety and health standards, rules, regulations and orders established by the State of California.

The contractor is solely responsible for the safety procedures to be followed by workers, subcontractors, and other persons working on the project. The contractor shall provide for the safety of the public both day and night. The engineer is not hired to review or approve the safety procedure followed by the contractor.

As required by the construction safety orders of the California Division of Occupational Safety and Health sufficient bracing and shoring shall be installed in the trenches to ensure the safety of workers. Where practical, all such bracing and shoring shall be removed from the trench as the backfilling proceeds. The contractor shall obtain a trench excavation permit, if required, from the California Division of Occupational Safety and Health.

Public safety and traffic control shall be provided in accordance with County requirements and Caltrans Standards. Safe vehicular and pedestrian access shall be provided at all times during construction.

Flagmen and traffic handling devices shall be provided at the contractor expense in accordance with Manual on Uniform Traffic Control Devices, or MUTCD.

All construction equipment working in areas of public traffic shall comply with the applicable section of the California Vehicle Code.

The contractor shall comply with all local sound control rules, regulations and ordinances. Each internal combustion engine used for any purpose on the job shall be equipped with a spark arrestor and muffler. The hours of work shall be limited to between 7:00 A.M. and 6:00 P.M. Monday through Saturday.

Fugitive dust emissions resulting from site clearing and road construction shall be minimized at all times, utilizing control measures including dust palliatives, regularly applied water, graveled or paved haul roads, etc.

During the progress of the work, the contractor shall keep the job site in a clean and orderly condition. Excess or unsuitable material shall be removed from the job site. Spillage and trackage resulting from hauling along or across existing streets or roads shall be removed immediately by the contractor. Dust and mud control shall be provided at all times including evenings, weekends, and holidays. All existing and new drainage facilities including gutters and roadside ditches shall be kept clean and free of debris at all times including evenings, weekends, and holidays.

All existing surfaces damaged by the contractor shall be restored to equal or better than original condition in accordance with section 7—1.11 and 15 of the standard specifications.

Watering shall be done in accordance with section 17 of the standard specifications and these notes. Watering shall include, but is not limited to, collection and applying all water required for all embankments, excavations, backfilling, cleaning, flushing, testing, and dust control.

Open burning of site or road-cleared vegetation is prohibited. Cleared vegetation should be treated by legal means other than open burning, such as chipping, shredding, grinding use as firewood and conversion to biomass fuel.

Grading Disturbance areas shall be minimized wherever possible and all disturbance areas shall be restored in accordance with erosion control requirements. Contractor shall make every effort possible to save any tree within two feet horizontally of the top of cut or toe of fill.

Clearing and grubbing shall be done in accordance with section 16 of the standard specifications and these notes. All objectionable material shall be removed from within the road right—of—way, driveway approaches, areas through which ditches and channels are to be excavated, and other such areas. Clearing and grubbing shall be done in advance of grading operations. Remove all waste material and objectionable material from the owner's property and legally dispose of it.

Before grading begins, the site shall be cleared of all debris and deleterious material such as concrete chunks, wood, and rocks greater than one foot in dimension Subsequently, the remaining organics shall be removed by stripping. The stripping operation shall extend two to six inches into the soil to obtain adequate organic removal. Ditches designated to remain shall be cleared of all berry vines and other organics. Loose soil in ditches shall also be removed. Strippings are unsuitable for structural fill material but may be used in landscape areas (not within five feet of the building pads). If used, strippings shall be compacted to 90 percent relative compaction. Trees not designated to remain shall be removed, including the stumps and larger surface roots.

Earthwork shall be done in accordance with section 19 of the standard specifications and these notes:

Earthwork consists of performing all operations necessary to excavate all materials, regardless of character and subsurface conditions, from the roadway prism or adjacent thereto; to excavate all materials, of whatever nature, necessary for the construction of foundations for structures and other facilities; to excavate trenches for culverts, water lines, sewer lines, utilities and other facilities; to excavate drainage, irrigation ditches and drainage channels; to excavate material from the roadway and borrow material for use as specified; to construct embankments, including the placing of selected material in connection therewith as specified; to backfill structures, culverts, and other facilities; to backfill depressions resulting from removal of obstructions, holes pits, and other depressions within the the roadway prism; to apply water; to remove and replace unsuitable material; to excavate and grade driveways; to construct protection dikes; to remove unsuitable material outside the roadway prism, slide material which has come into the roadway prism, and material which has slipped from embankments; and to prepare basement material for the placing of other material thereon.

Before any fill is placed the areas to receive fill shall be scarified to a depth of six inches and re-compacted to 90 percent relative compaction.

On site soil which is free of debris, large rocks, or organic material may be reused as fill material. Rocks greater than eight inches in any dimension shall be removed if the fill is to be used within three feet of final grade. Oversized rock may be used in landscape areas, rock landscape walls or removed from the site. Oversized rock should not be placed in fill without prior approval and observation from a qualified geotechnical representative. In general, oversized rock used in fill must be placed at or near the bottom of deep fill and placed in windrows to avoid nesting. Import fill shall be granular and approved by the engineer.

Fill should be uniformly moisture conditioned and placed in horizontal, maximum 8—inch thick loose lifts and compacted to at least 90 percent of maximum dry density. The upper 8 inches of fill in building footprints and paved areas should be compacted to a minimum of 95 percent of the maximum dry density.

The contractor is advised to make an independent evaluation of the earthwork quantities involved. The Owner and the Engineer. do not, expressly or by implication, agree that the actual earthwork quantities will correspond to those given.

IN PLACE EXCAVATION: 500 CUBIC YARDS IN PLACE EMBANKMENT: 500 CUBIC YARDS

AREA DISTURBED BY GRADING ACTIVITIES = 0.35 AC

Any excess and unsuitable material shall be removed from the owner's property and legally disposed of.

The following ASTM test methods shall be used instead of California Tests specified in the standard specifications for relative compaction, grading (sieve analysis), and sand equivalent.

Sand Equivalent ASTM 2419

Sieve Analysis ASTM C136 ASTM D1556 or D2922 and D3017 Field In Place Density ASTM D1557 Moisture Density Relationship

Relative compaction (RC) shall be computed as follows: RC=(field in place dry density/maximum dry density) x 100

CULTURAL OR HISTORIC RESOURCES:

THERE IS THE POSSIBILITY THAT SIGNIFICANT UNIDENTIFIED CULTURAL MATERIAL, INCLUDING HUMAN REMAINS/BURIALS, COULD BE ENCOUNTERED ON OR BELOW THE SURFACE DURING THE COURSE OF CONSTRUCTION ACTIVITIES. IN THE EVENT OF AN INADVERTENT DISCOVERY OF PREVIOUSLY UNIDENTIFIED CULTURAL MATERIAL, INCLUDING HUMAN REMAINS, ARCHEOLOGICAL CONSULTATION SHOULD BE SOUGHT IMMEDIATELY AND WORK SHALL HALT. THE COUNTY CORONER SHALL BE IMMEDIATELY INFORMED AND CONSULTED IN ACCORDANCE WITH STATE LAW.

MATERIAL NOTES:

AGGREGATE BASE SHALL BE CLASS 2, 3/4" MAXIMUM GRADING, CONFORMING TO STANDARD SPECS. SECTION 26, PLACED AT 95% RELATIVE COMPACTION.

ASPHALT CONCRETE SHALL BE 1/2" MAX. MED. (TYPE B) AGGREGATE, PG 64-16 ASPHALT BINDER IN ACCORDANCE WITH CALTRANS STANDARD SPECS. SECTION 39, 93, AND 94. ASPHALT CONCRETE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION WITH AN AIR VOIDS RATIO OF 3% TO 10%.

ALL CONCRETE MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH CALTRANS STANDARD SPECIFICATION SECTION 90. CONCRETE FOR APPROACH SLABS & RETAINING WALLS SHALL BE CLASS B AND OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. PRIOR TO INSTALLATION OF ANY BRIDGE GIRDERS OR PLACEMENT OF ANY BACKFILL. CONCRETE FOR BRIDGE DECK SHALL BE CLASS A CONCRETE WITH A 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. ALL STEEL REINFORCING BARS MATERIAL AND INSTALLATION SHALL BE IN CONFORMANCE WITH CALTRANS STANDARD SPECIFICATION SECTION 52. ALL REINFORCEMENT BARS SHALL BE GRADE 60 EPOXY COATED.

PLAN REVISIONS

No changes shall be made to the approved plans unless authorized by the Engineer and the appropriate agency. Should changes become necessary, the Contractor shall notifiy the Engineer of the proposed change and estimated cost associated with the change. The Engineer shall resubmit two (2) copies of the affected plan sheets to the **County** or affected agency with the authorized changes noted and dated in a revision block on the title sheet. The changes shall be identified by the revision number in a triangle delineated on the plans adjacent to the change. The proposed changes shall be reviewed and approved by the County or affected agency prior to implementation of the

AS-BUILT PLANS

The Contractor shall provide one set of red-lined As Built Plans to the Consulting Engineer upon completion of the work before final approval. The Consulting Engineer shall incorporate the red-lined markups with all approved deviations and shall provide a reproducible set of record drawings to the County or affected agency.

INSPECTION REQUIREMENTS

All improvements constructed under the requirements of Nevada County Standard Construction Specifications shall be subject to inspection during construction by the Nevada County Public Works Department. The Consulting Engineer shall inspect and certify the construction. The Contractor shall submit to the Consulting Engineer a practicable progress schedule in accordance with Section 8, "Progress Schedule", State Specifications. Two (2) working days prior to the commencement of work the Consulting Engineer shall submit the "Progress Schedule" to the Department. Each feature of work shall be inspected by the Consulting Engineer and approved by the Department prior to proceeding to subsequent salient features of work.

All improvements constructed under the requirements of Utility Agencies or Fire District shall shall be subject to inspection during construction by that agency or district. Two (2) working days prior to the commencement of work, the Contractor shall notify the Utility Agency of District. Each feature of work shall be inspected and approved by the Department prior to proceeding to subsequent features of work.

When the improvements are completed, the Contractor shall request a final inspection by the Public Works Department and the Consulting Engineer. The Public Works Department shall inspect the work and notify the Contractor, the Consulting Engineer and the Developer of any defects or deficiencies to be remedied. At such time as these defects or deficiencies are corrected or completed in accordance with the plans or as specified by the Department, the Department shall recommend acceptance of the work to the Nevada County Board of Supervisors.

PERMITS AND NOTICES

The Contractor shall be responsible for insuring that all necessary permits have been obtained and all required notices have been given prior to commencement of work,

- An approved set of plans shall be available at the project site at all times during the

- All utility companies affected by the project shall be notified in advance of the work. - "Underground Service Alert" (phone 800-642-2444) shall be notified at least two (2) working days in advance of any excavation. — The Contractor shall be responsible for receiving rights—of—entry for any work done on private property or in non-public easements.

TESTING OF MATERIALS

Testing of all materials utilized in work performed under the standard construction specifications and per these improvement plans shall conform to the requirements and methods for testing of the California Department of Transportation and their standard specifications. All materials must meet minimum specifications. Where testing may be allowed to be performed by the Consulting Engineer, Geotechnical Engineer or authorized laboratory, signed copies of the test results shall be submitted to Nevada County Department of Public Works within forty eight (48) hours or prior to commencement of a subsequent salient feature of work. Test results shall show clearly the names of the individual and firm performing the tests, as well as the project name, the dates of sampling and testing, origin of the sample and the actual results of the test. The test result shall also indicate whether the test result met minimum specification for the material as well as any corrective action by the Contractor and any retest by which the material was found to be in compliance. The Department reserves the right to verify test results.

FIRE DISTRICT NOTES:

ALL FLAMMABLE VEGETATION AND FUELS REMOVED DURING SITE DEVELOPMENT SHALL BE DISPOSED OF IN AN APPROVED MANNER.

MAINTAIN DEFENSIBLE SPACE OF 100 FEET FROM EACH SIDE AND FROM THE FRONT AND REAR OF THE STRUCTURE, BUT NOT BEYOND THE PROPERTY LINE

ANY DEVIATION OR CHANGES FROM THE APPROVED PLANS, DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC., SHALL BE APPROVED BY THE FIRE PREVENTION BUREAU PRIOR TO INSTALLATION. REQUEST FOR CHANGES SHALL BE SUBMITTED, IN WRITING, TO THE FIRE PREVENTION BUREAU FOR APPROVAL.

FINAL APPROVAL OF THE PROJECT AND/OR OCCUPANCY OF THE BUILDING ARE SUBJECT TO VERIFICATION BY A REPRESENTATIVE OF THE BUREAU OF FIRE PREVENTION THAT ALL OF THE ABOVE REQUIREMENTS HAVE BEEN SATISFACTORILY COMPLETED.

ALL MEETINGS AND INSPECTIONS REQUIRE A 48-HOUR MINIMUM ADVANCE REQUEST.

ALL WORK COVERED OR COMPLETED WITHOUT BENEFIT OF THE REQUIRED INSPECTIONS MAY BE SUBJECT TO ADDITIONAL INSPECTIONS OR REMOVAL, AS NEEDED, TO INSURE THAT THE WORK HAS BEEN COMPLETED IN COMPLIANCE WITH THE REQUIREMENTS OF THE FIRE PREVENTION BUREAU, THE APPROVED DESIGN, AND THE MANUFACTURER'S LISTING OR INSTALLATION REQUIREMENTS.

EROSION CONTROL NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE TEMPORARY EROSION AND DRAINAGE CONTROL FACILITIES DURING THE RAINY SEASON OPERATION AND PROTECT ALL GRADED AREAS FROM EROSION. TEMPORARY EROSION CONTROL SHALL BE DONE IN COMPLIANCE WITH REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) REQUIREMENTS, COUNTY REQUIREMENTS, EROSION AND SEDIMENT CONTROL PLAN AND THE CURRENT EDITION OF THE CASQA CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE (BMP) HANDBOOK FOR CONSTRUCTION ACTIVITY. CONTRACTOR SHALL REPAIR ANY AREAS DAMAGED FROM EROSION PRIOR TO ACCEPTANCE OF THE GRADING AND FINAL IMPROVEMENTS. MINIMUM TEMPORARY EROSION CONTROL SHALL CONSIST OF SEDIMENT BARRIERS, CHECK DAMS STABILIZED CONSTRUCTION ENTRANCE, AND SEDIMENT TRAPS. ADDITIONAL MEASURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.

2. PERMANENT EROSION CONTROL MEASURES ARE SHOWN ON THESE IMPROVEMENT PLANS. ALL TEMPORARY EROSION AND DRAINAGE CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL SURFACING IS COMPLETE AND REVEGETATION IS SUCCESSFULLY ESTABLISHED.

3. REQUIRED CONSTRUCTION DETAILS AND BEST MANAGEMENT PRACTICES (BMP'S) ARE PROVIDED IN THE PLANS AND IN THE CASQA BMPS. ADDITIONAL MEASURES MAY BE REQUIRED BASED ON SITE CONDITIONS. REFER TO CASQA BMPS FOR SITE MONITORING REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO MONITOR THE SITE IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

4. ALL EXPOSED SOIL SURFACES SHALL BE PROTECTED FROM CONDITIONS THAT SUSPEND OR TRACK DUST PARTICLES AND SHALL BE IMPLEMENTED DAILY INCLUDING EVENINGS, WEEKENDS AND HOLIDAYS. FOR ADDITIONAL INFORMATION SEE CASQA BMP'S.

5. ALL INLETS RECEIVING RUNOFF FROM THE PROJECT SITE SHALL HAVE INLET PROTECTION IN PLACE AT ALL TIMES DURING CONSTRUCTION.

6. PAVED STREETS ADJACENT TO OR WITHIN THE PROJECT SITE SHALL BE SWEPT OR WASHED AT THE END OF EACH CONSTRUCTION DAY, OR AS NECESSARY, TO REMOVE EXCESSIVE ACCUMULATIONS OF SILT, MUD, AND/OR DIRT WHICH MAY HAVE RESULTED FROM ACTIVITIES ON THE PROJECT SITE.

7. REMOVAL OF NATIVE VEGETATION SHALL BE MINIMIZED.

REGARDING REVEGETATION. 8. REFER TO

9. IF PERMANENT EROSION CONTROL MEASURES ARE NOT INSTALLED BY OCTOBER 15 OF CONSTRUCTION SEASON, TEMPORARY MEASURES, SUCH AS SEDIMENT BARRIERS, CHECK DAMS, SEDIMENT TRAPS AND TEMPORARY PROTECTION SUCH AS WOOD CHIPS AND PINE NEEDLES SHALL BE REMAIN IN PLACE IN ACCORDANCE WITH THE PLANS. ADDITIONAL MEASURES MAY BE DETERMINED IN THE FIELD BY THE CONSULTING ENGINEER, NEVADA COUNTY AND THE REGIONAL WATER QUALITY CONTROL BOARD.

GENERAL NOTES - DRY UTILITIES (ELEC/TELE/GAS/CABLE)

REFER TO PROJECT SPECIFICATIONS AND MECHANICAL/ELECTRICAL/PLUMBING PLANS FOR INSTALLATION OF ALL PRIVATE UTILITIES SHOWN ON THESE PLANS. .INSTALLATION MUST BE INSPECTED BY UTILITY AGENCY OR DISTRICT (IF PUBLIC) OR THE DEVLOPERS DESIGNATED INSPECTOR(IF PRIVATE) PRIOR TO BACKFILL OR CONCRETE ENCASEMENT.

PULL BOXES/VAULTS ALL VAULT FRAME AND LIDS SHALL BE H-20 INCIDENTAL TRAFFIC LOAD RATING WHEN LOCATED IN SIDEWALK OR LANDSCAPE AREAS AND SHALL BE H-20 FULL TRAFFIC LOADING WHEN LOCATED WITHIN STREET/PARKING AREA. NO AGENCY NAME SHALL APPEAR ON PRIVATE FACILITIES.

ALL VAULTS AND PULLBOXES SHALL BE GROUTED AND SEALED. PLACE MIN. 6" DRAIN ROCK UNDER ALL PULLBOXES AND VAULTS.

PULL BOX/VAULTS SHOULD BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. HOWEVER, IF ADDITIONAL SWEEPS ARE USED AND/OR THE TOTAL NUMBER OF SWEEPS TOTALING 180 DEGREES. A PULLBOX NEEDS TO BE INSTALLED.

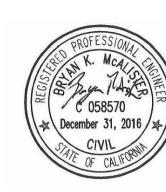
CONTRACTOR SHOULD PROVIDE A 3/8" NYLON CONTINUOUS PULL ROPE WITH SEQUENTIAL FOOT MARKINGS IN EACH CONDUIT. NO TYING OR SPLICING IS PERMITTED. LEAVE A MINIMUM OF 3 FOOT OF SECURED PULL ROPE IN EACH BOX OR VAULT. CONDUIT SHOULD BE INSTALLED WITH A SLIGHT DRAIN SLOPE AWAY FROM THE BUILDINGS TO PREVENT THE WATER ACCUMULATION IN THE CONDUIT OR BUILDING. THE BEND RADIUS OF THE SWEEPS MUST BE 10 TIMES THE INTERNAL CONDUIT DIAMETER. ALL CONDUIT SHALL BE MANDRELED.

SEWER SYSTEM NOTES

- 1. ALL SANITARY SEWER SYSTEM INSTALLATIONS SHALL COMPLY WITH THE CITY OF GRASS VALLEY ENGINEERING AND PUBLIC WORKS DEPARTMENT CODES, SPECIFICATIONS, AND STANDARD DETAILS. CITY REQUIREMENTS SHALL TAKE PRECEDENCE WHEN IN CONFLICT WITH INFORMATION SHOWN ON THESE PLANS.
- 2. THE SEWER SYSTEM SHALL BE INSPECTED AND TESTED ACCORDING TO CITY REQUIREMENTS.
- 3. SEWER AND WATER SEPARATION SHALL CONFORM TO THE "CRITERIA FOR THE SEPARATION WATER OF WATER MAINS AND SANITARY SEWERS" OF THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES. ALL SEWER FORCE MAIN SHALL BE INSTALLED WITH 10' MIN. HORIZONTAL SEPARATION AND 1' MIN. CLEARANCE BELOW ALL WATERLINES.
- 4. BACKFILL AND PIPE BEDDING SHALL COMPLY WITH CITY REQUIREMENTS.
- 7. ALL SEWER LATERALS SHALL BE PVC PIPE SDR35, UNLESS OTHERWISE SHOWN.
- 8. REFER TO SEPTIC DISPOSAL DESIGN (BY OTHERS) FOR ADDITIONAL NOTES AND REQUIREMENTS FOR INSTALLATION AND TESTING OF SEPTIC SYSTEM.

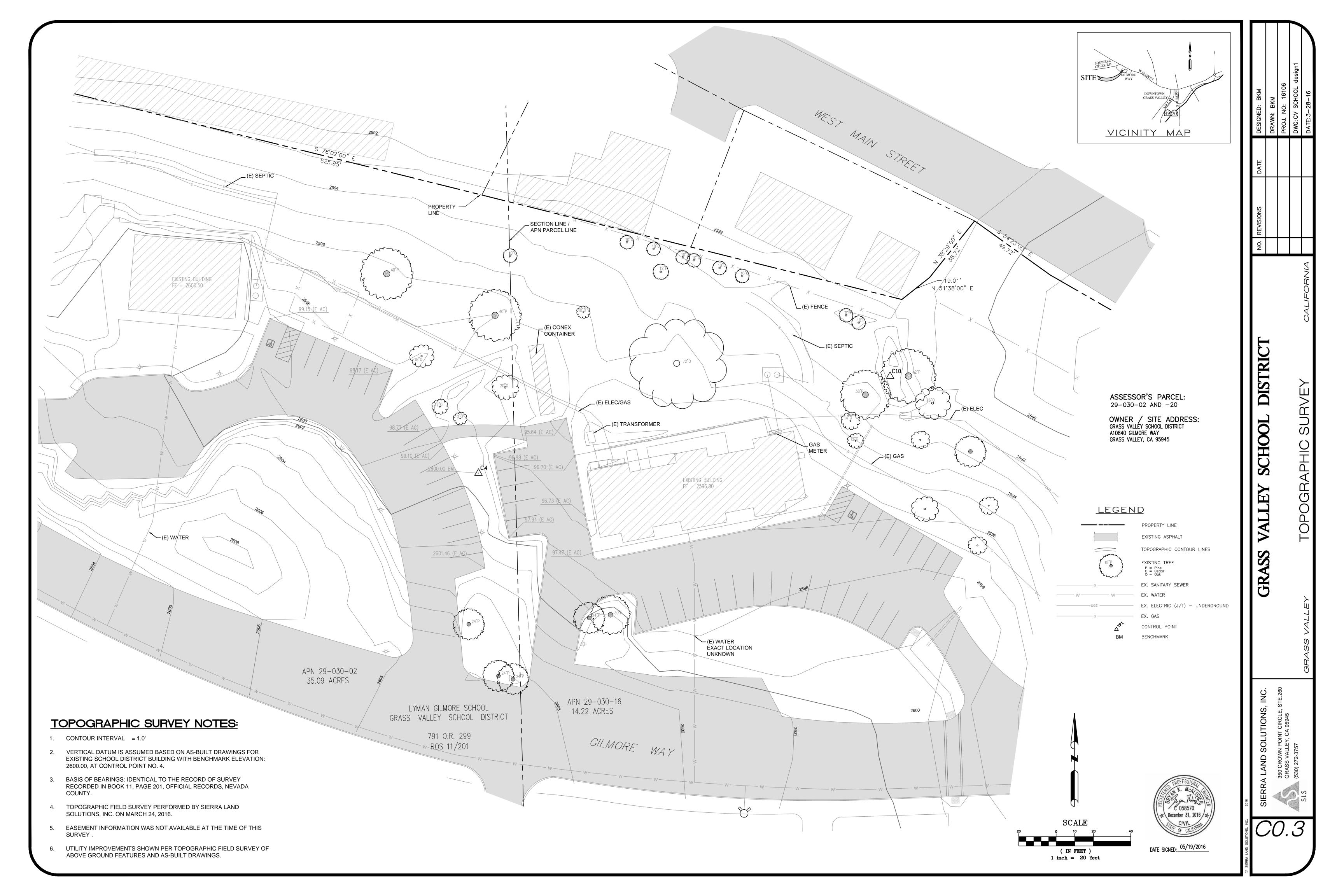
WATER SYSTEM NOTES

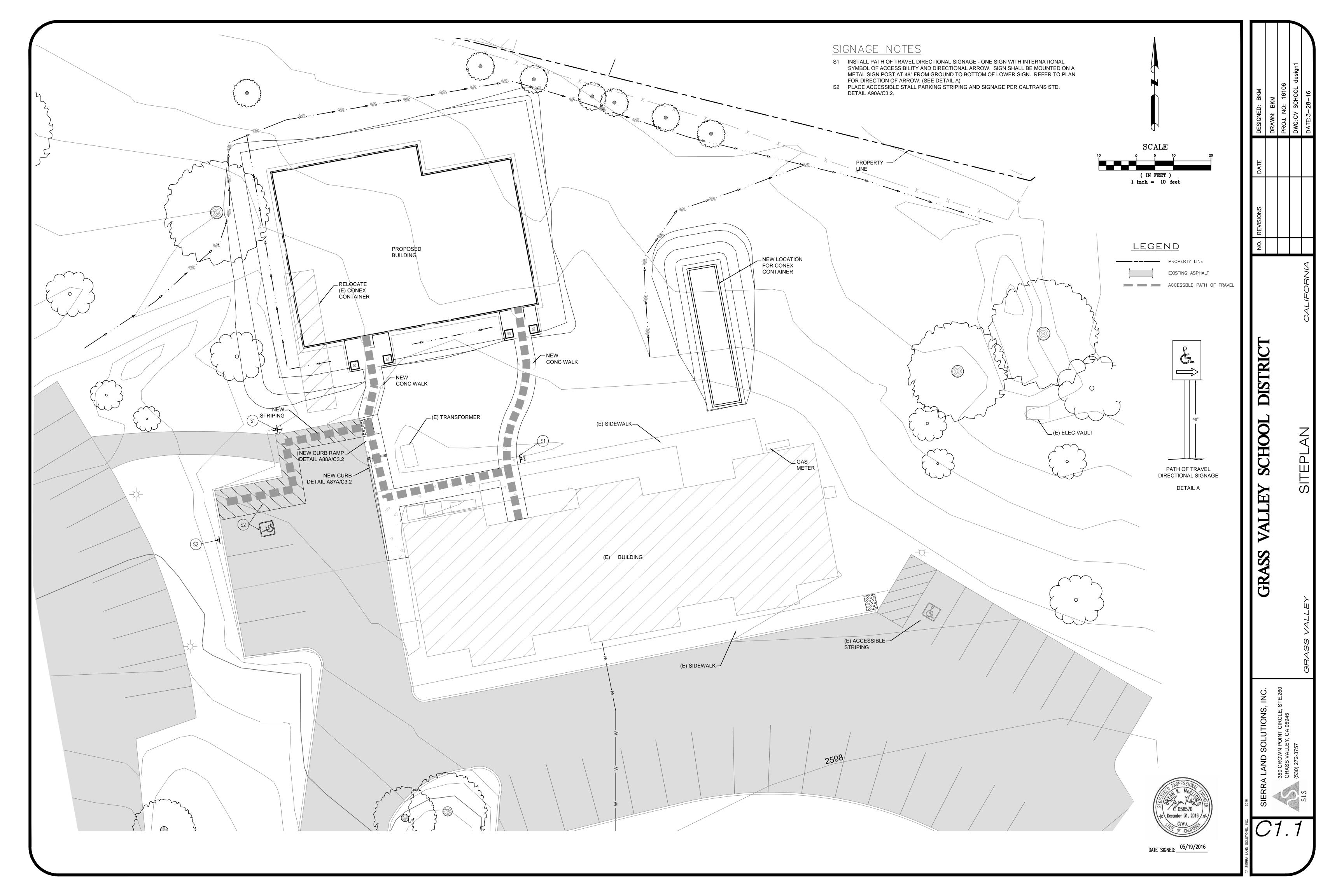
- 1. ALL WATER SYSTEM INSTALLATIONS SHALL COMPLY WITH THE NEVADA IRRIGATION DISTRICT (NID) CODES, SPECIFICATIONS, AND STANDARD DETAILS. NID REQUIREMENTS SHALL TAKE PRECEDENCE WHEN IN CONFLICT WITH INFORMATION SHOWN ON THESE PLANS.
- 2. THE WATER SYSTEM SHALL BE INSPECTED AND TESTED ACCORDING TO NID REQUIREMENTS.
- 3. SEWER AND WATER SEPARATION SHALL CONFORM TO THE "CRITERIA FOR THE SEPARATION WATER OF WATER MAINS AND SANITARY SEWERS" OF THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.

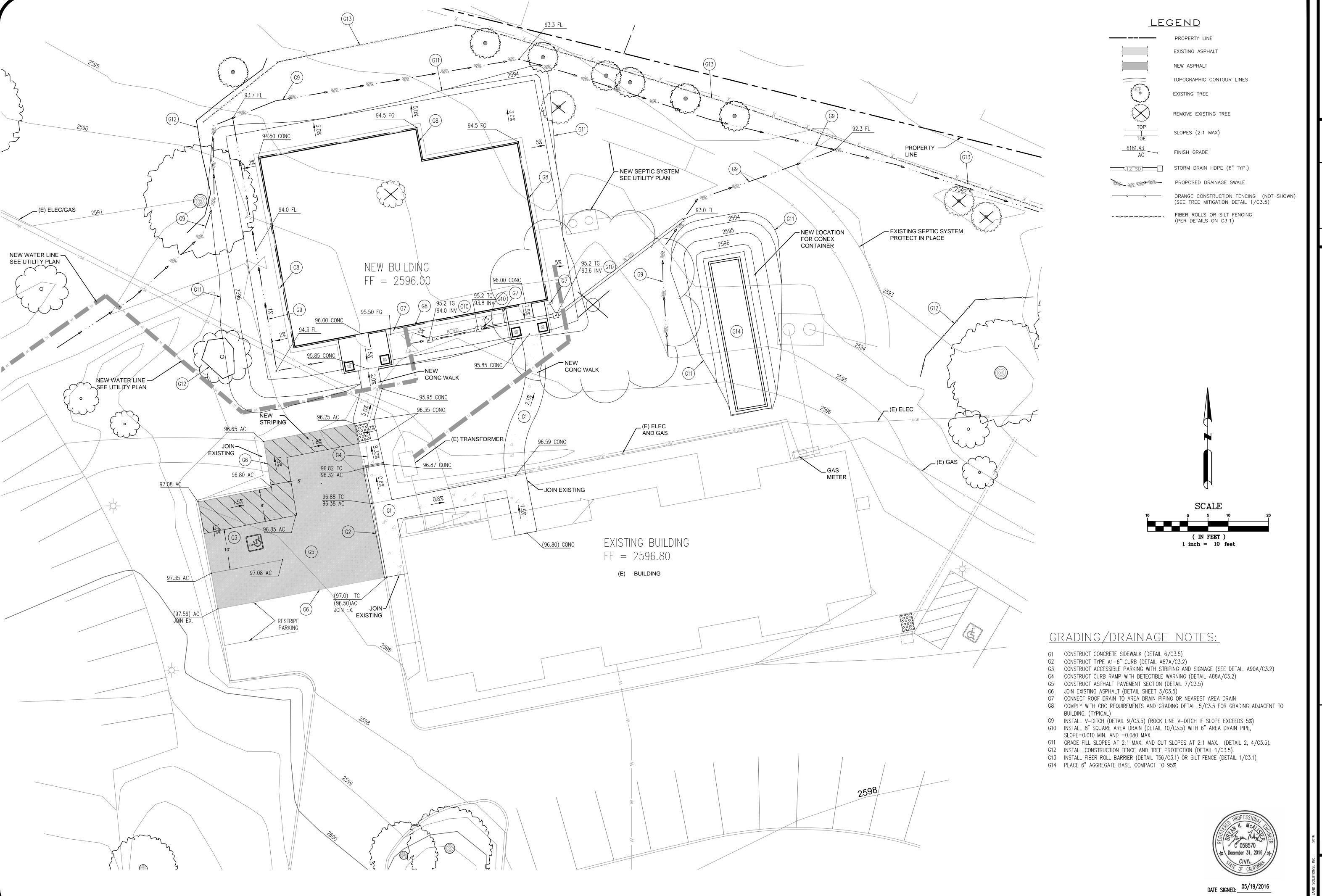


DATE SIGNED: 05/19/2016

TRIC S NC.







 NO.
 REVISIONS
 DATE
 DESIGNED: BKM

 PROJ.
 DRAWN: BKM

 PROJ.
 NO: 16106

 DWG: GV SCHOOL design1

 DATE: 3-28-16

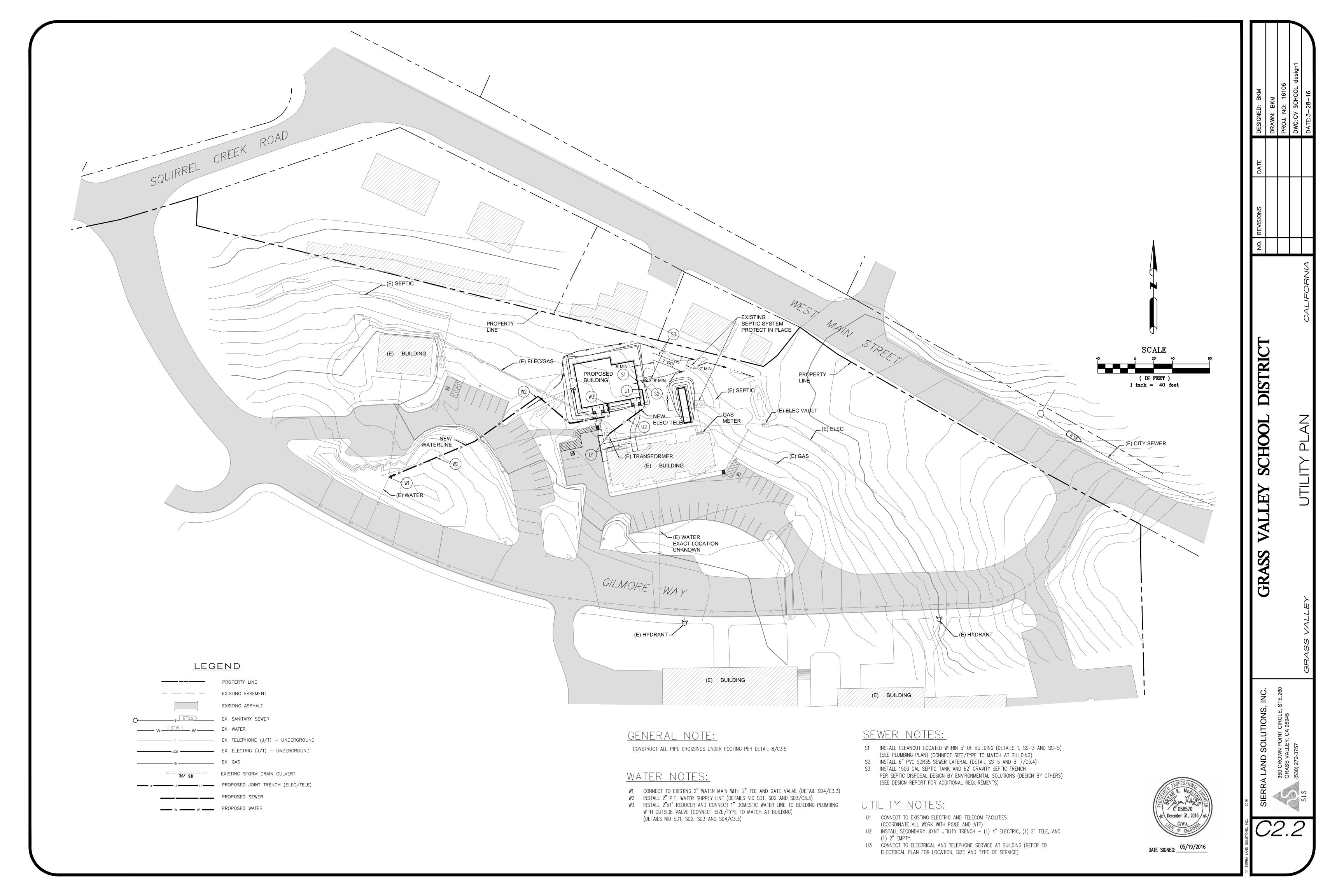
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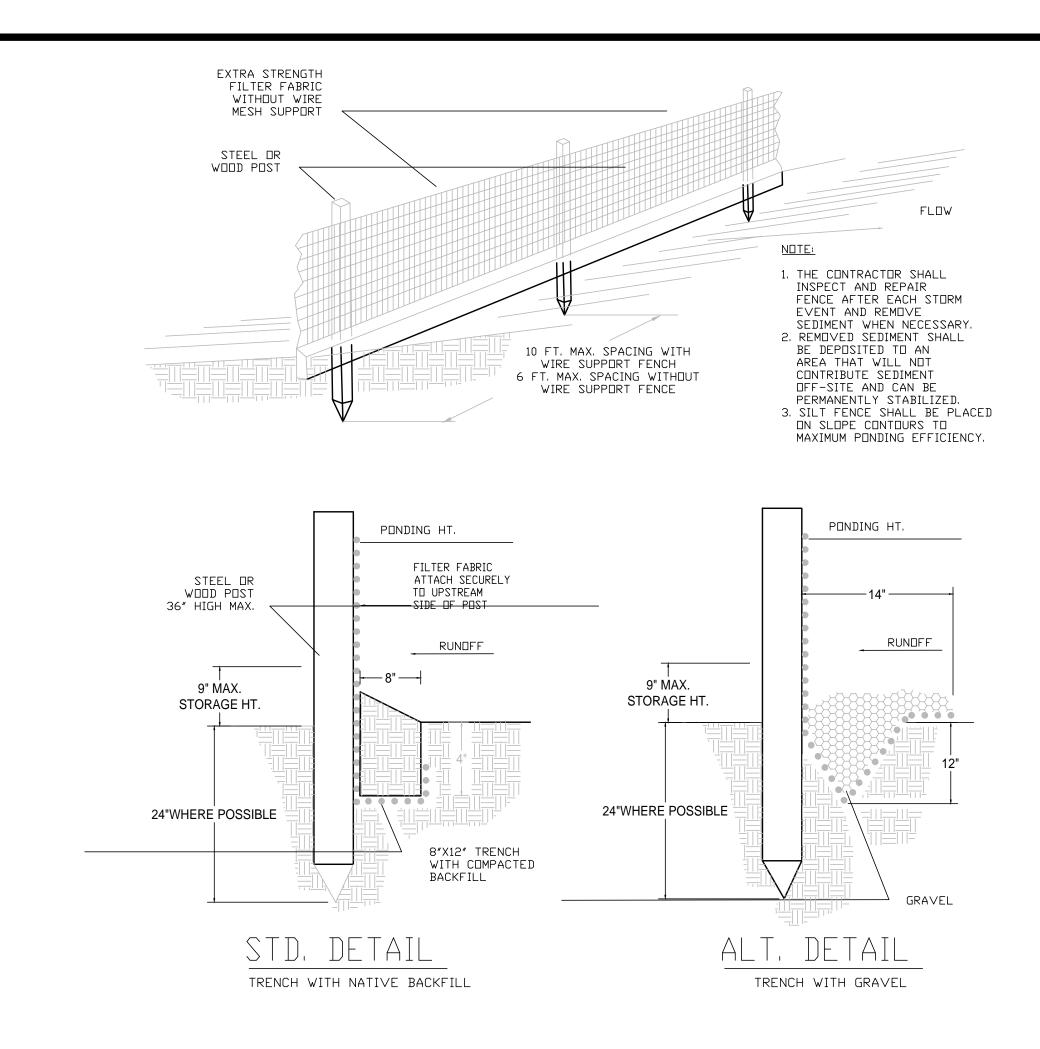
S VALLEY

N POINT CIRCLE, STE.260 LEY, CA 95945 757

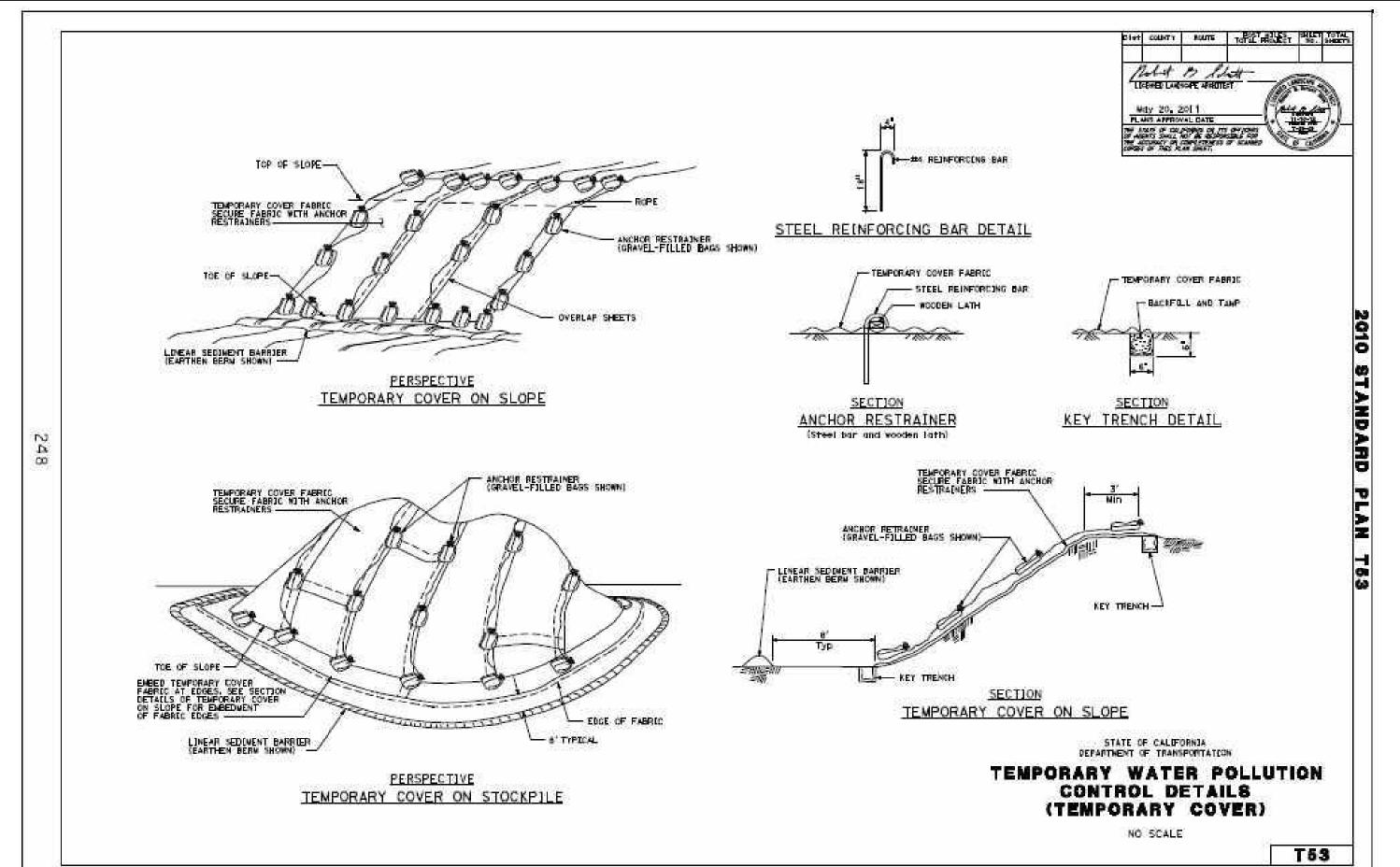
350 CROWN POINT CIRCL GRASS VALLEY, CA 95946

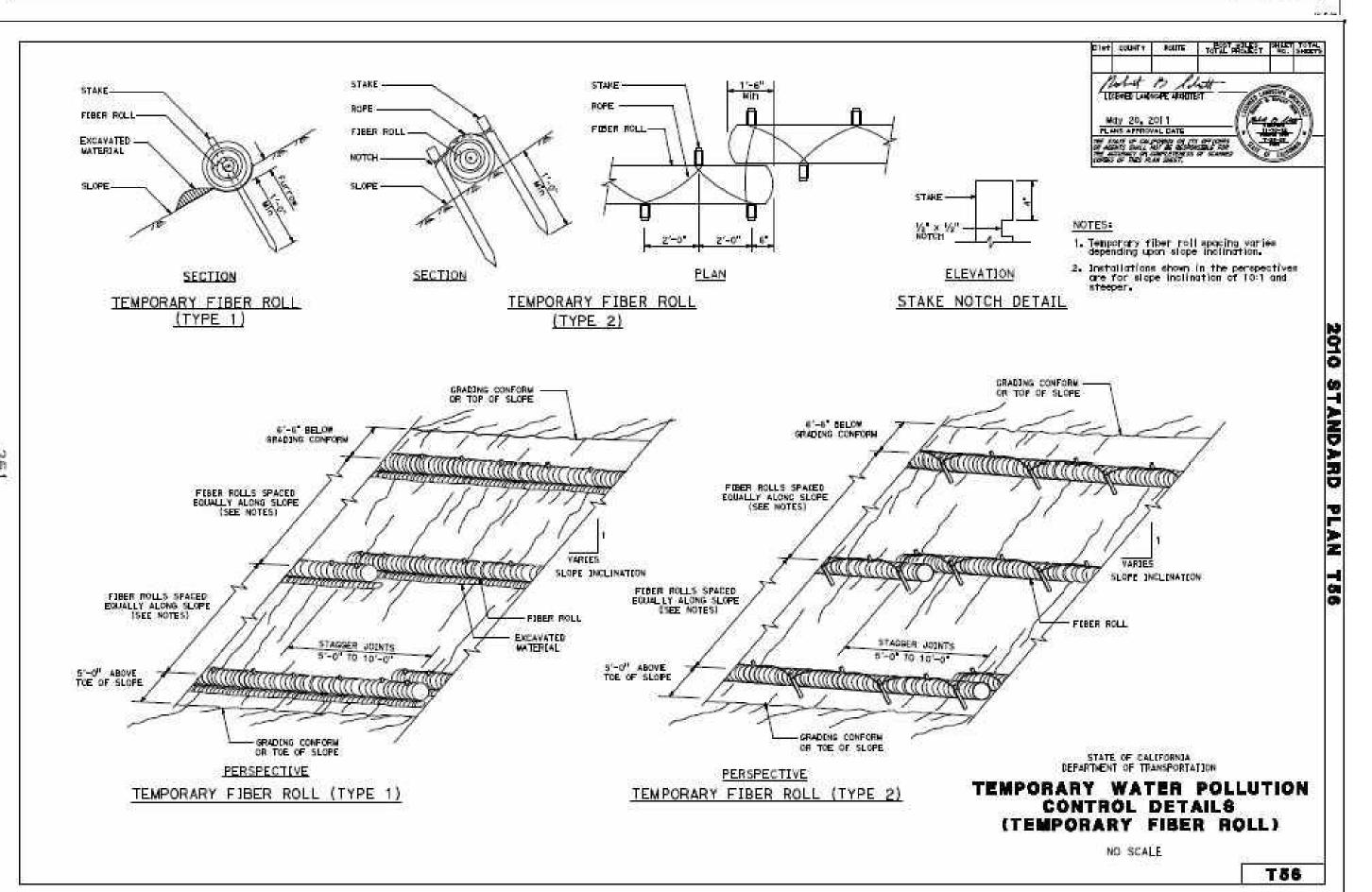
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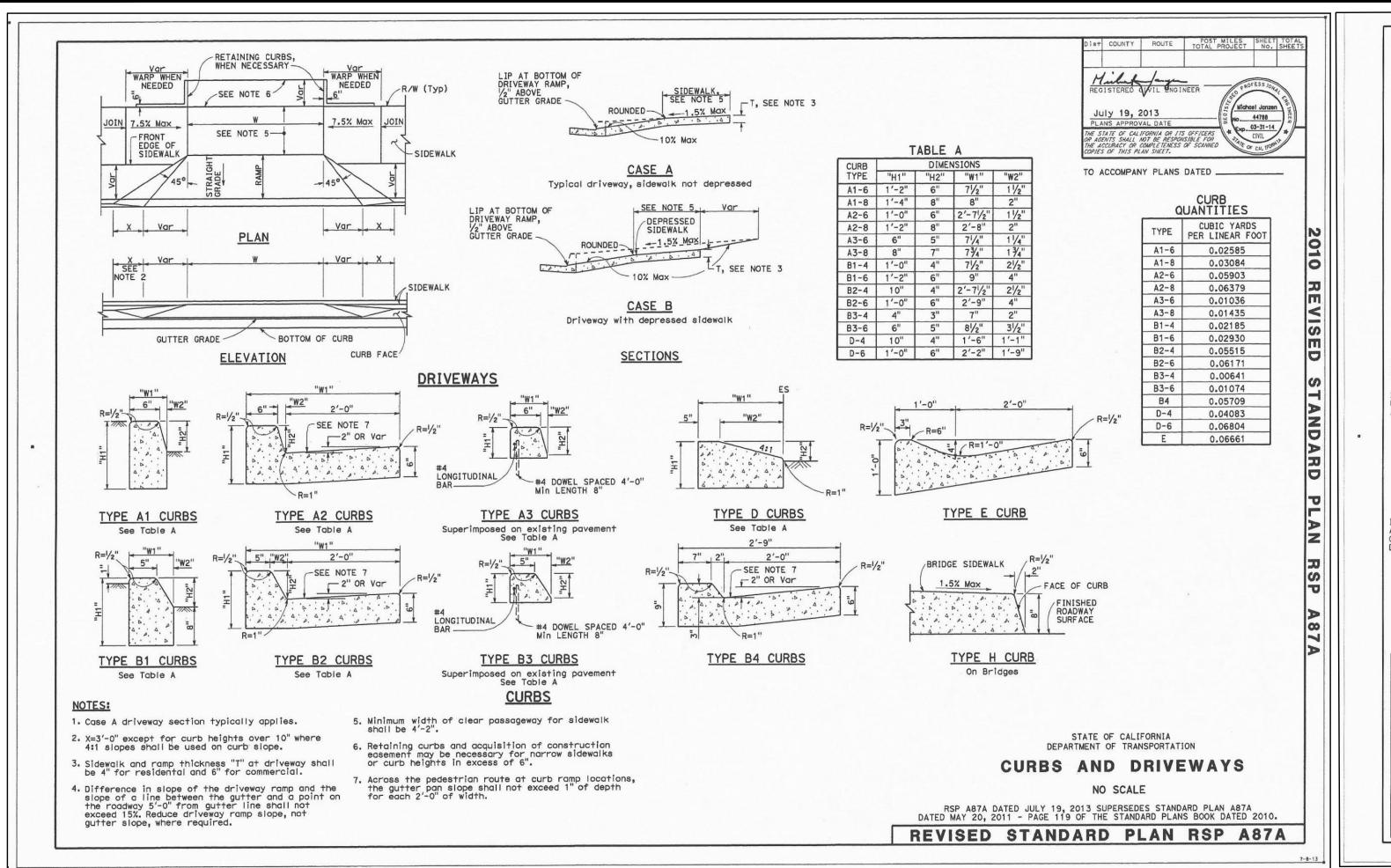


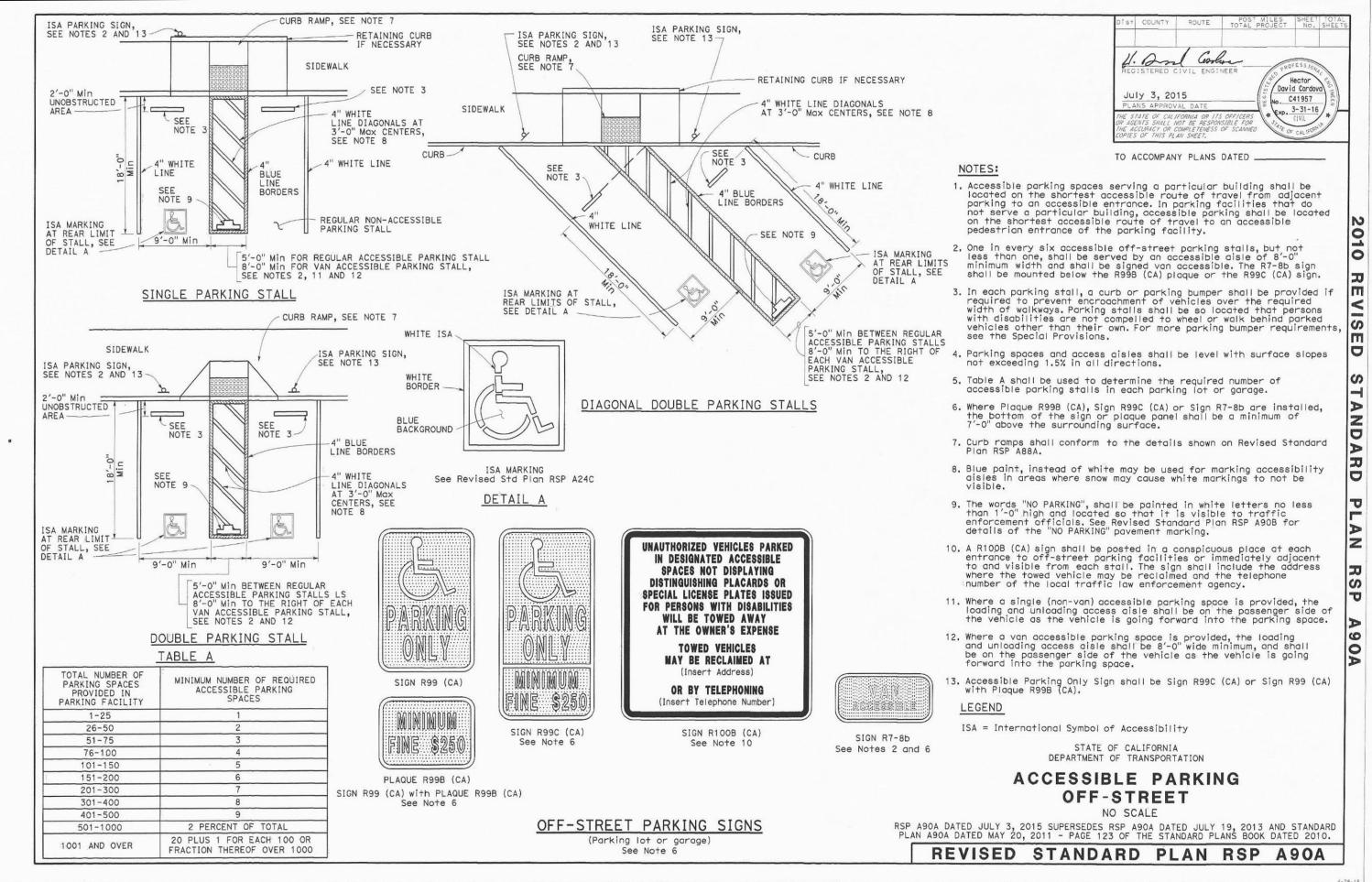


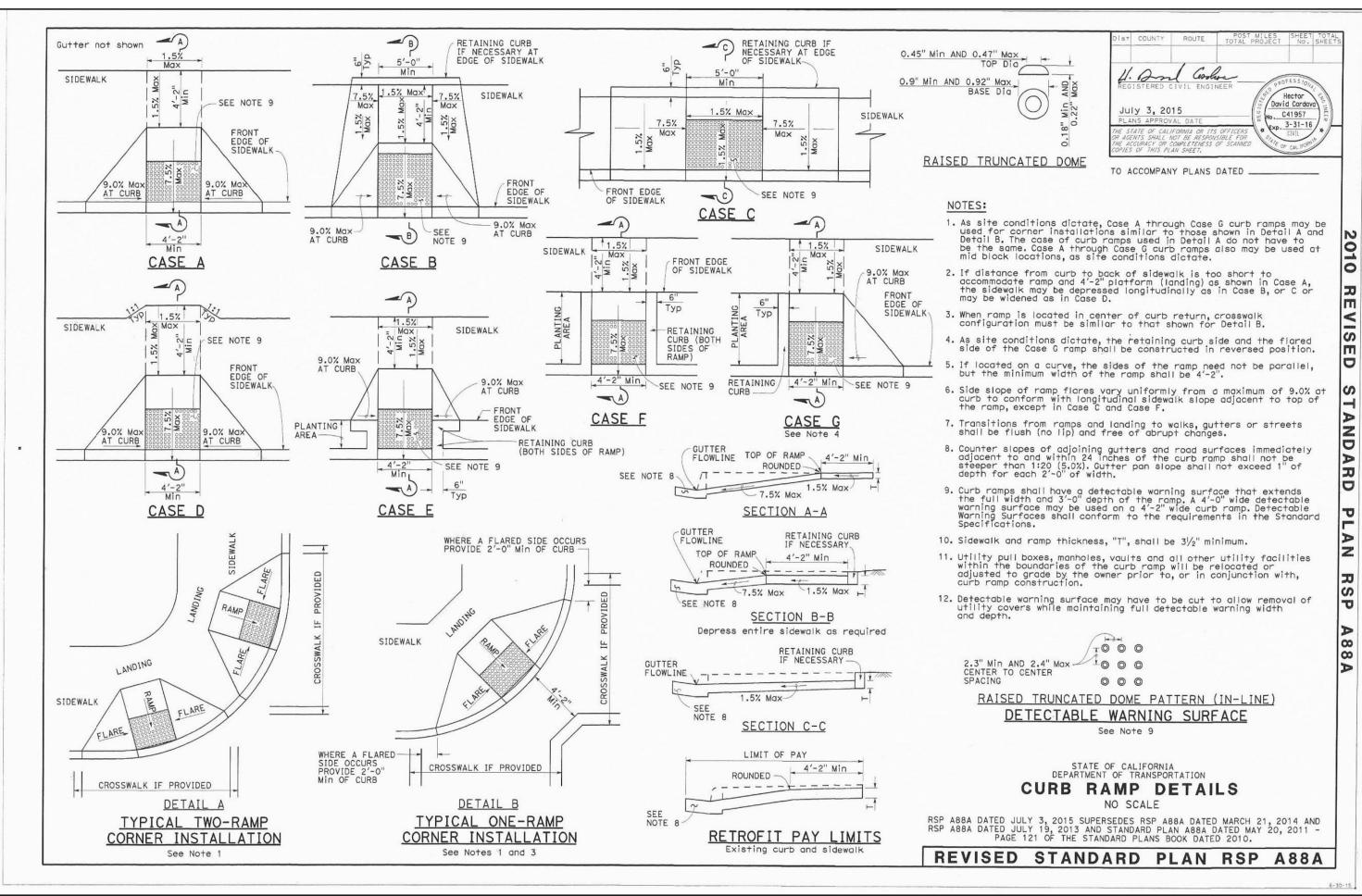


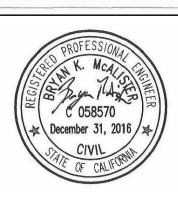
DATE SIGNED: 05/19/2016

SOLUTIONS, INC. 2016
SIERRA LAN



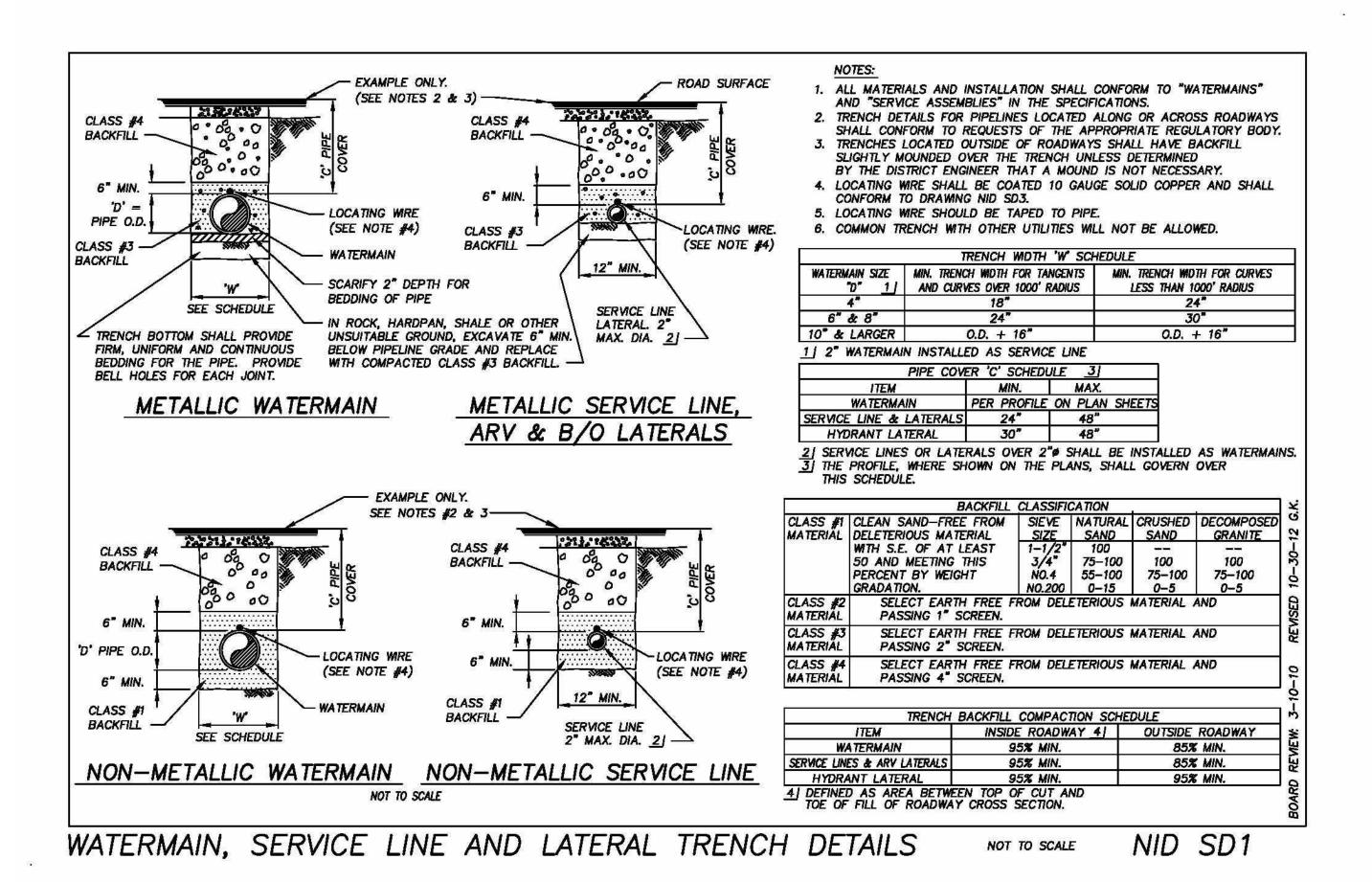


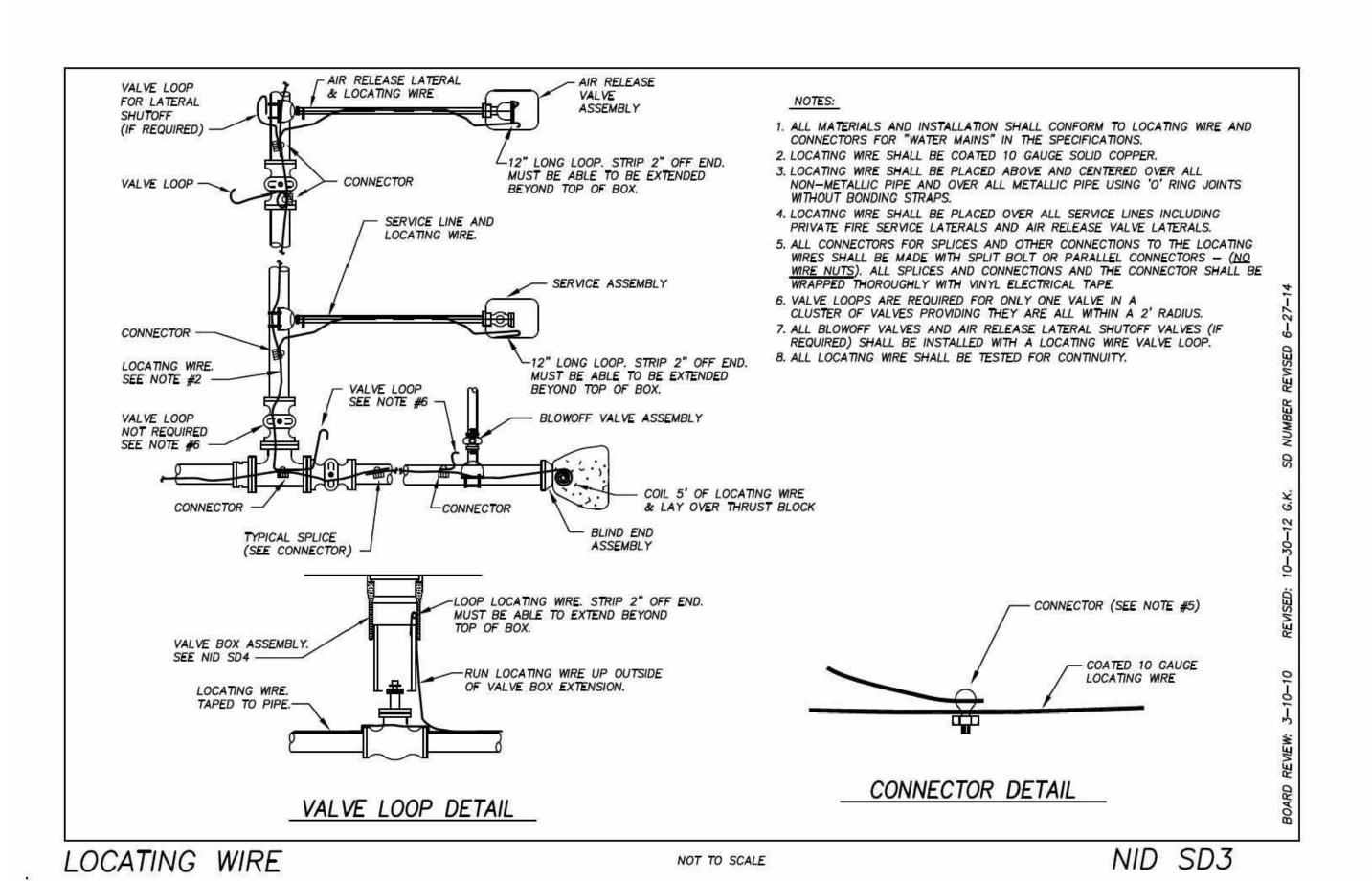


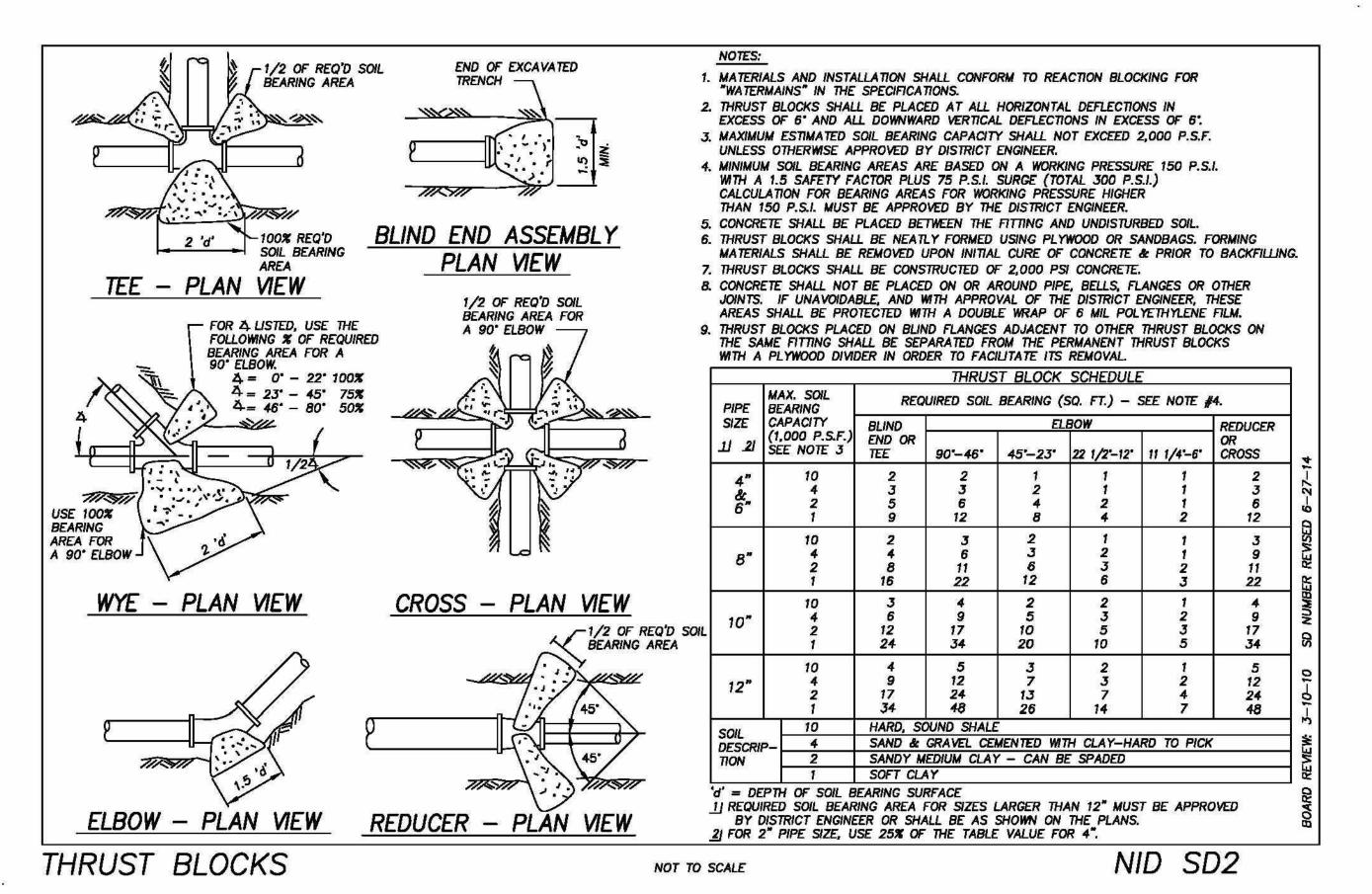


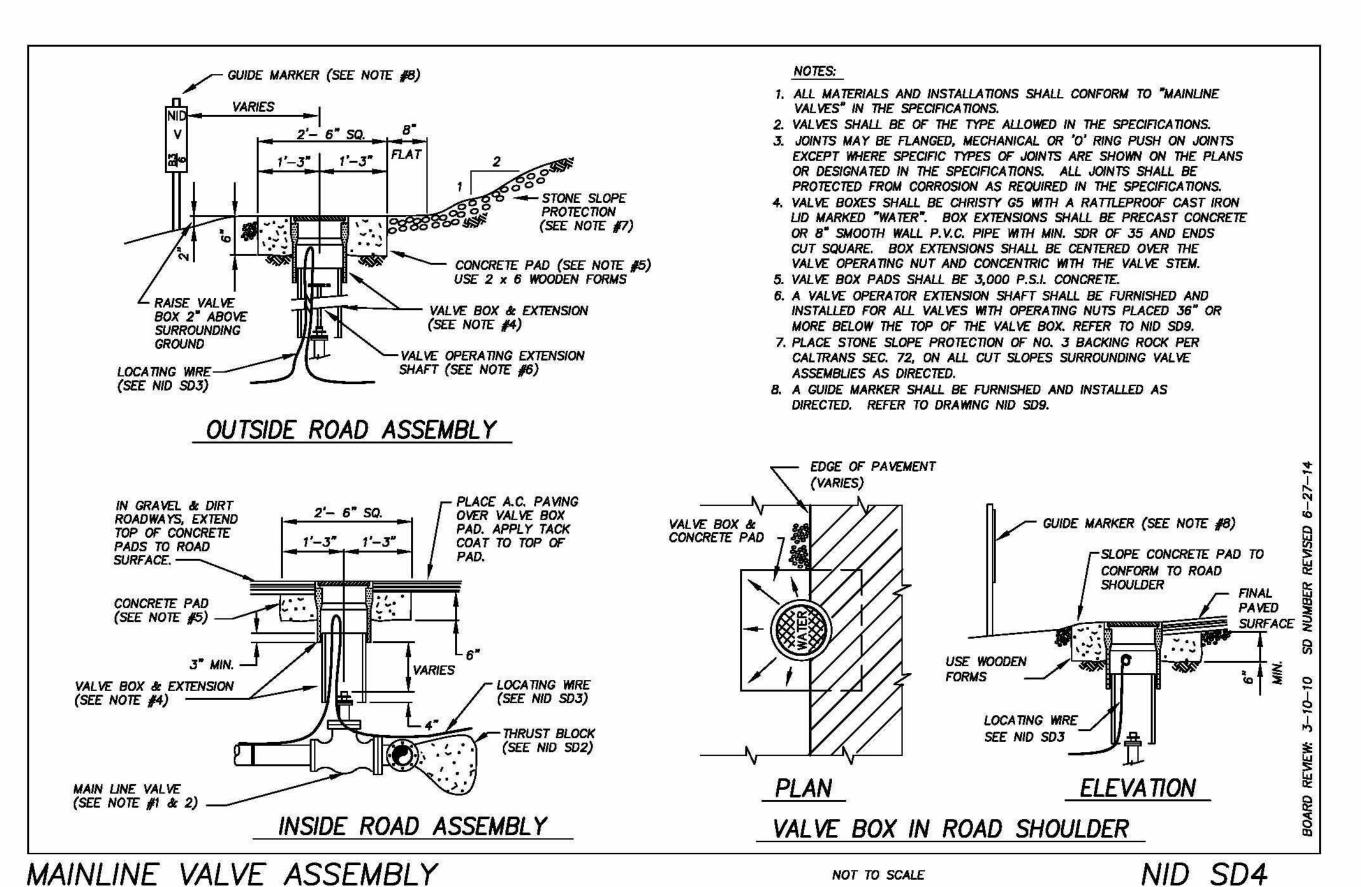
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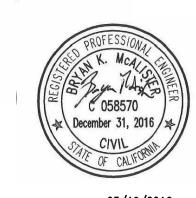
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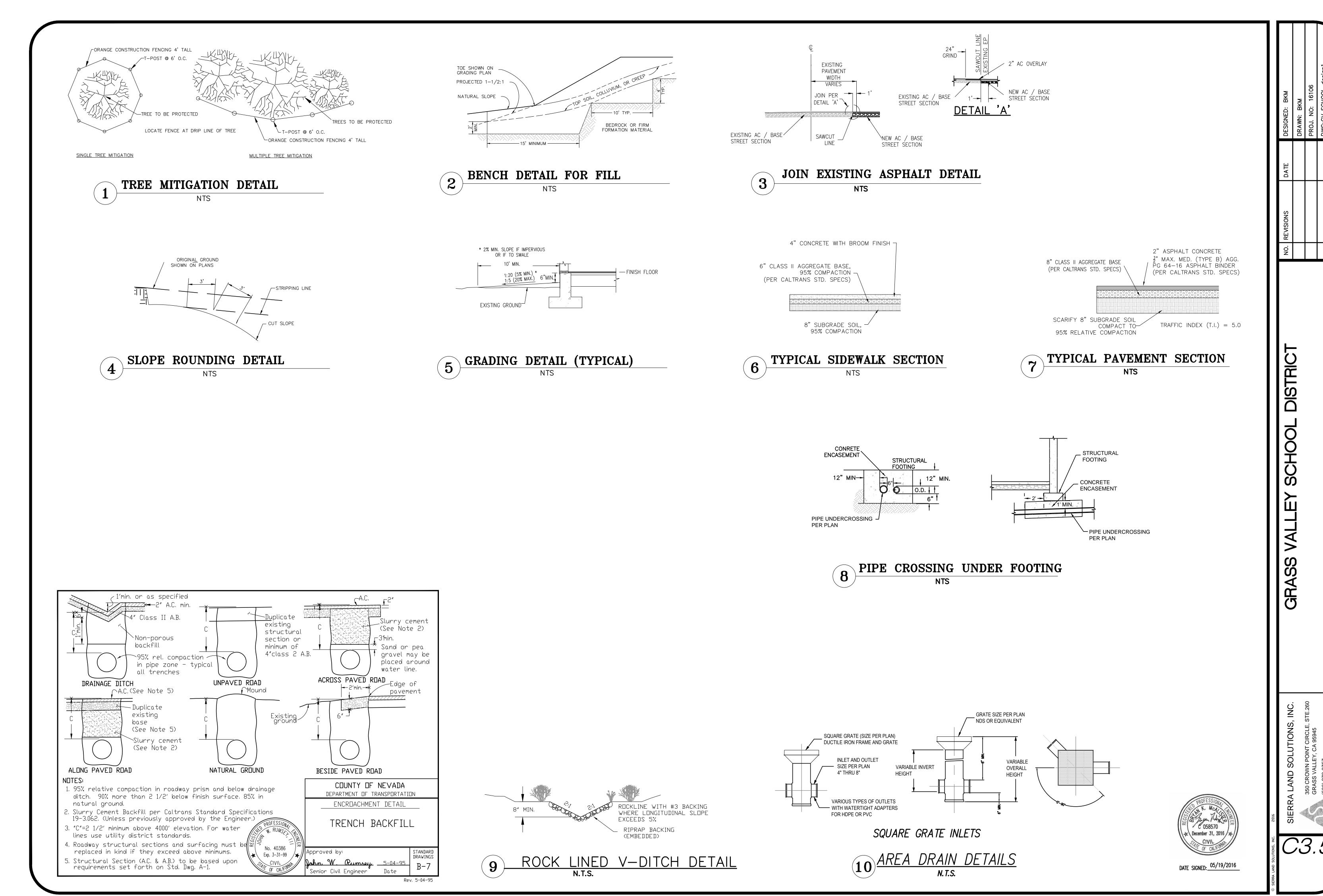


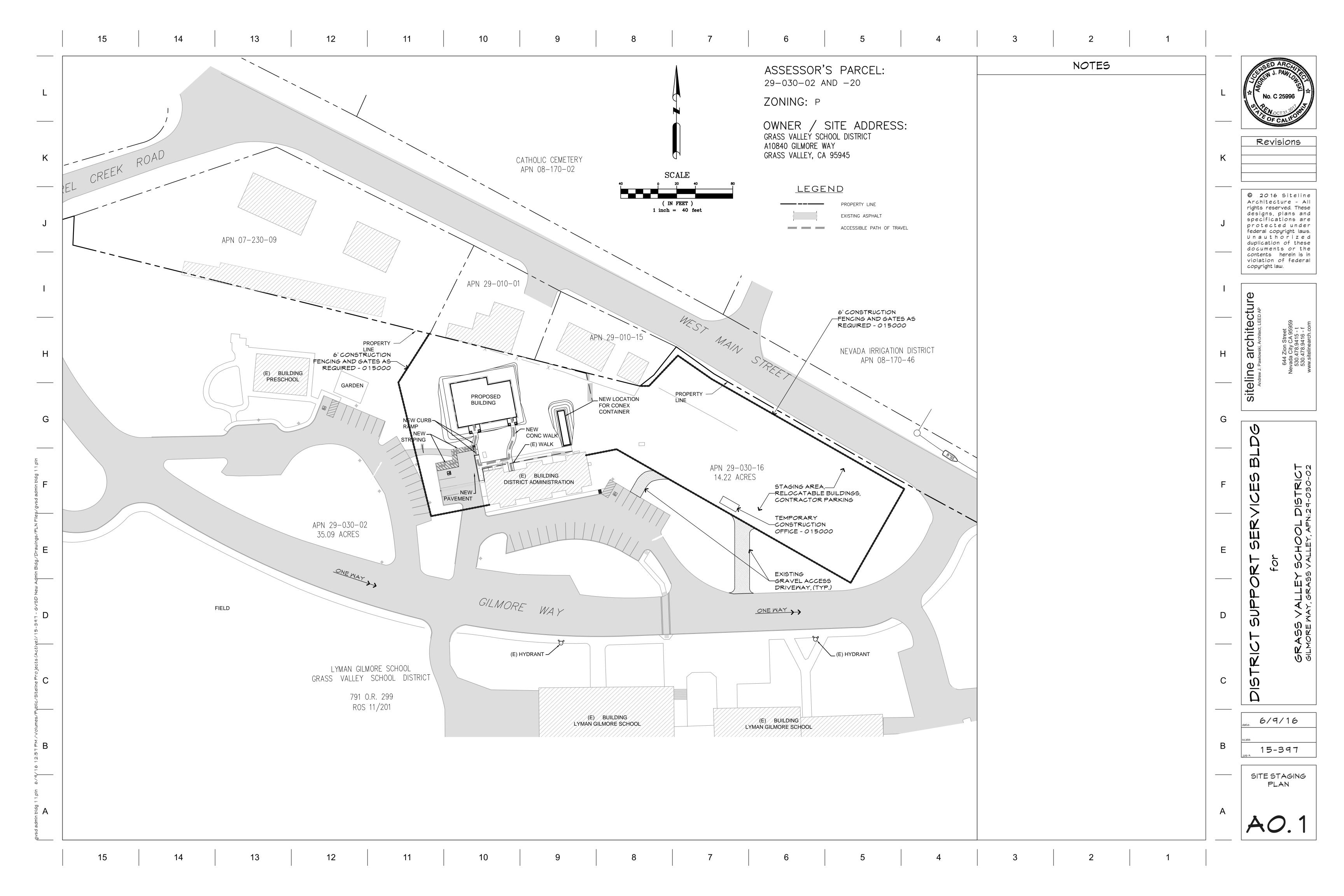


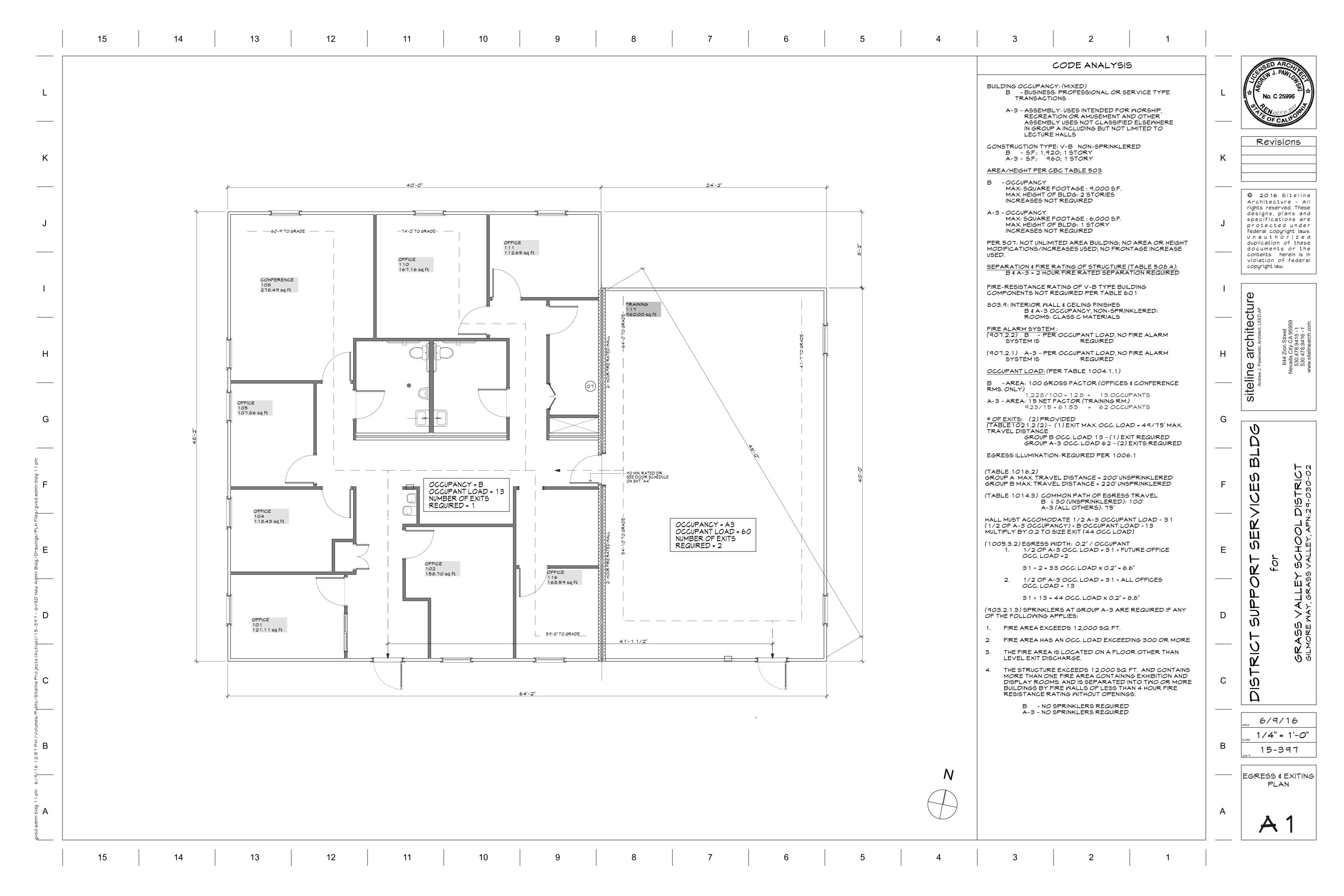


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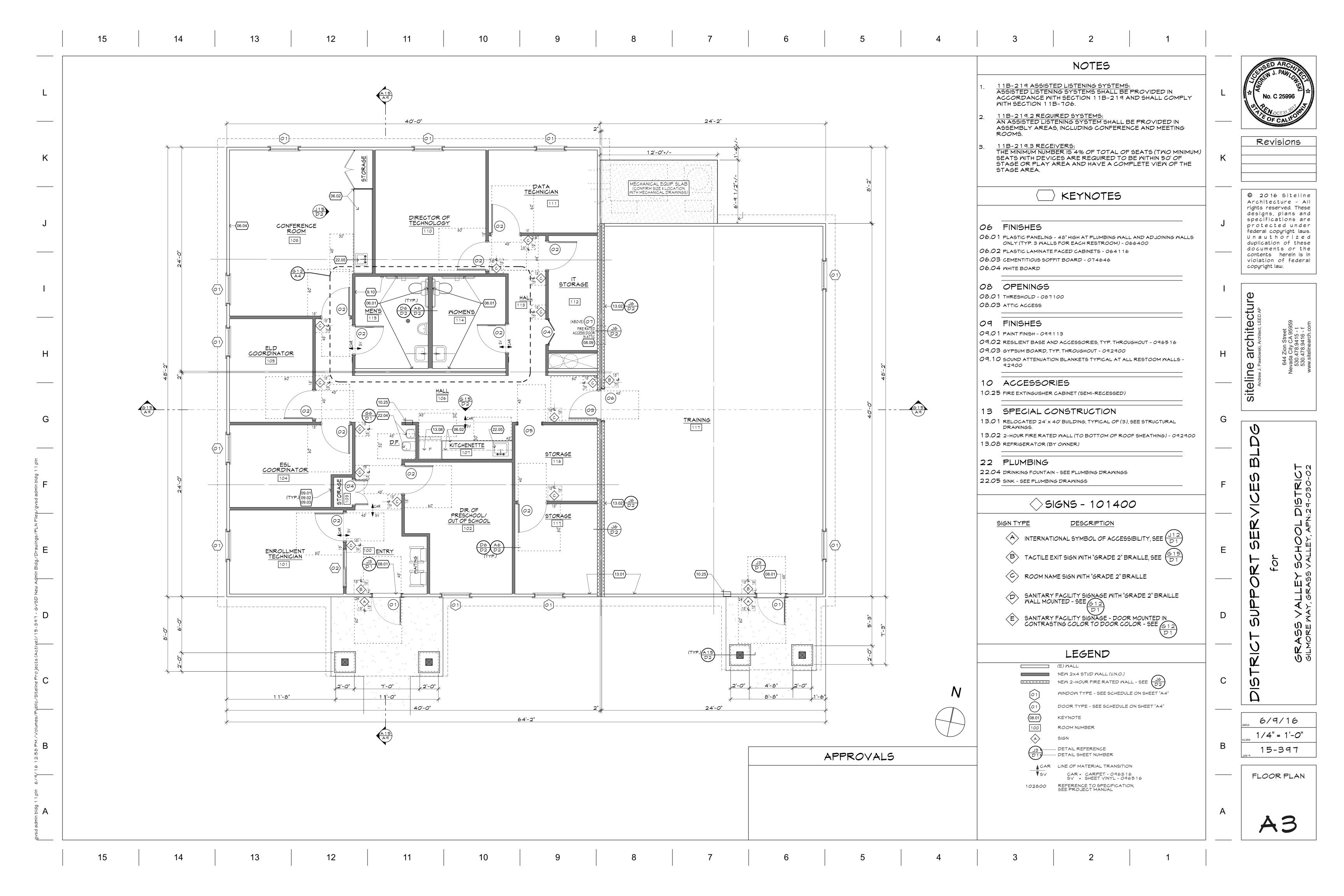
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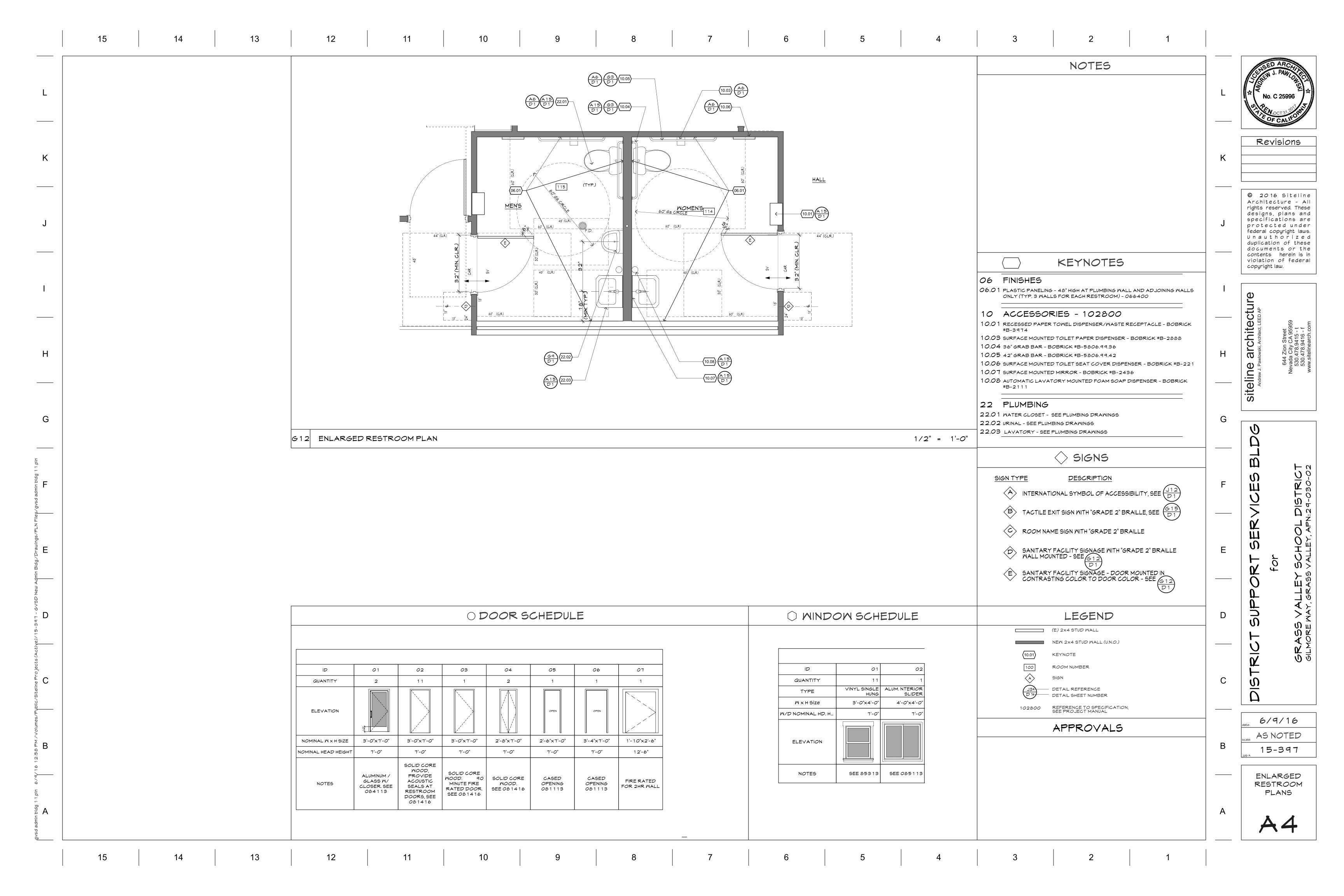


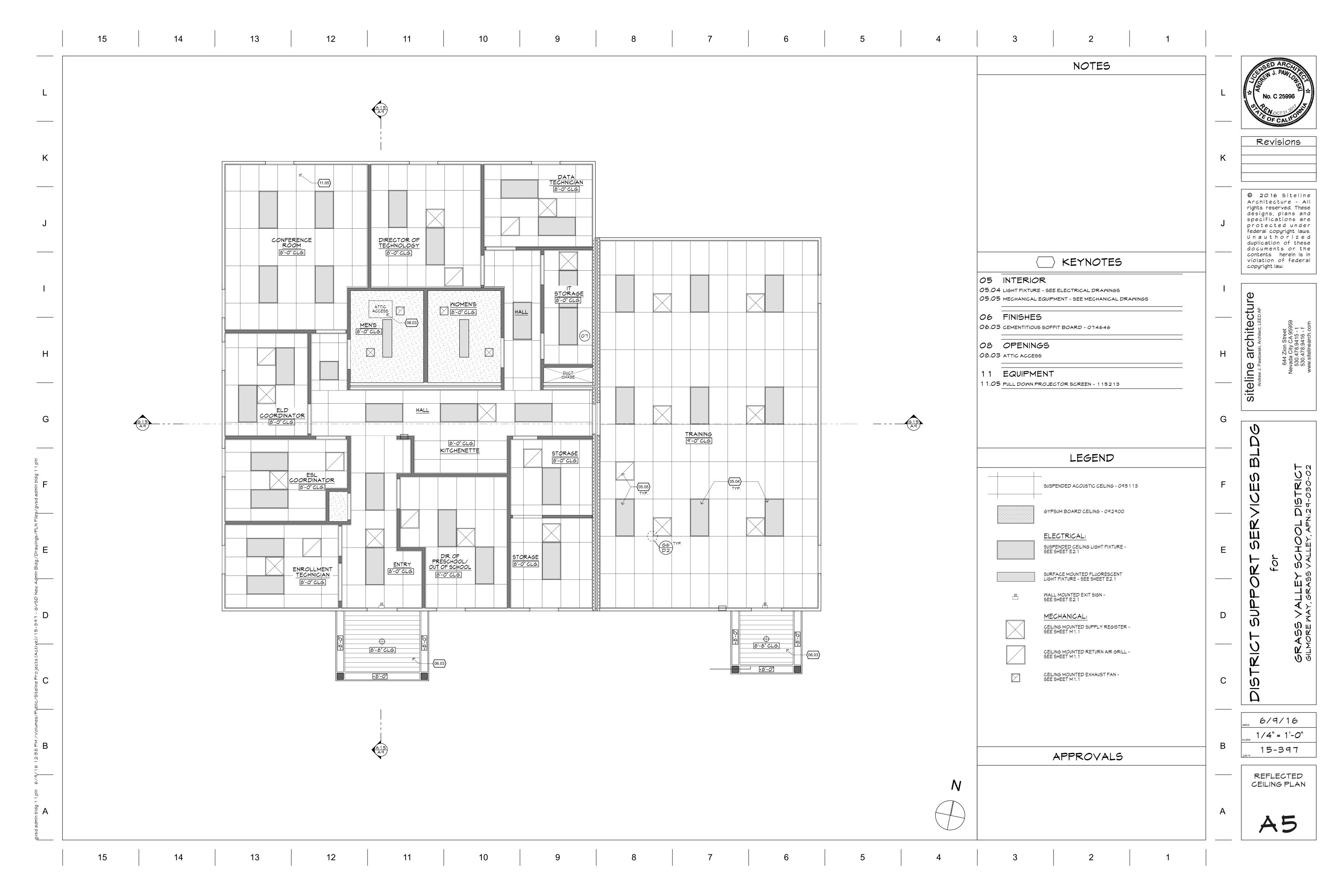


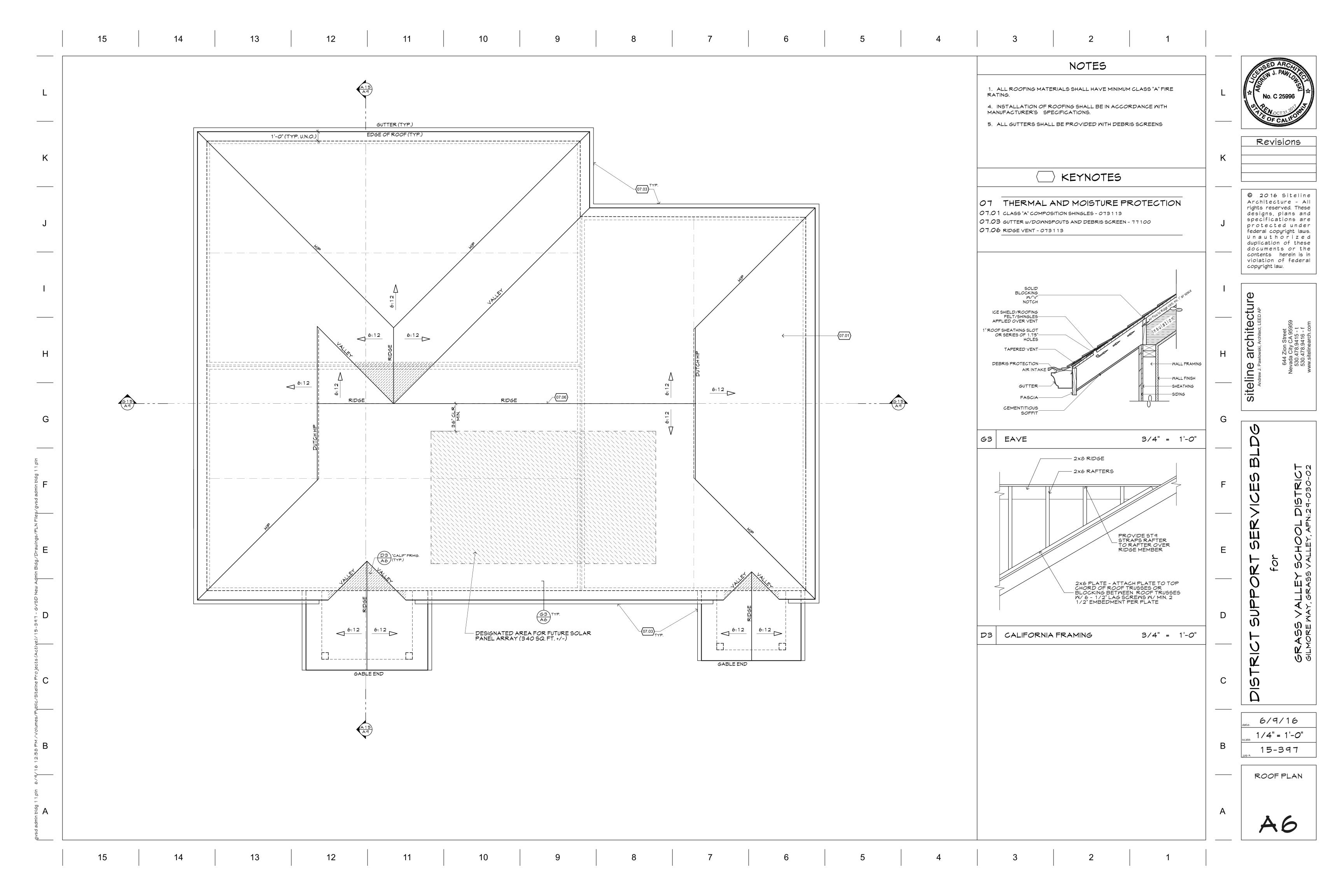


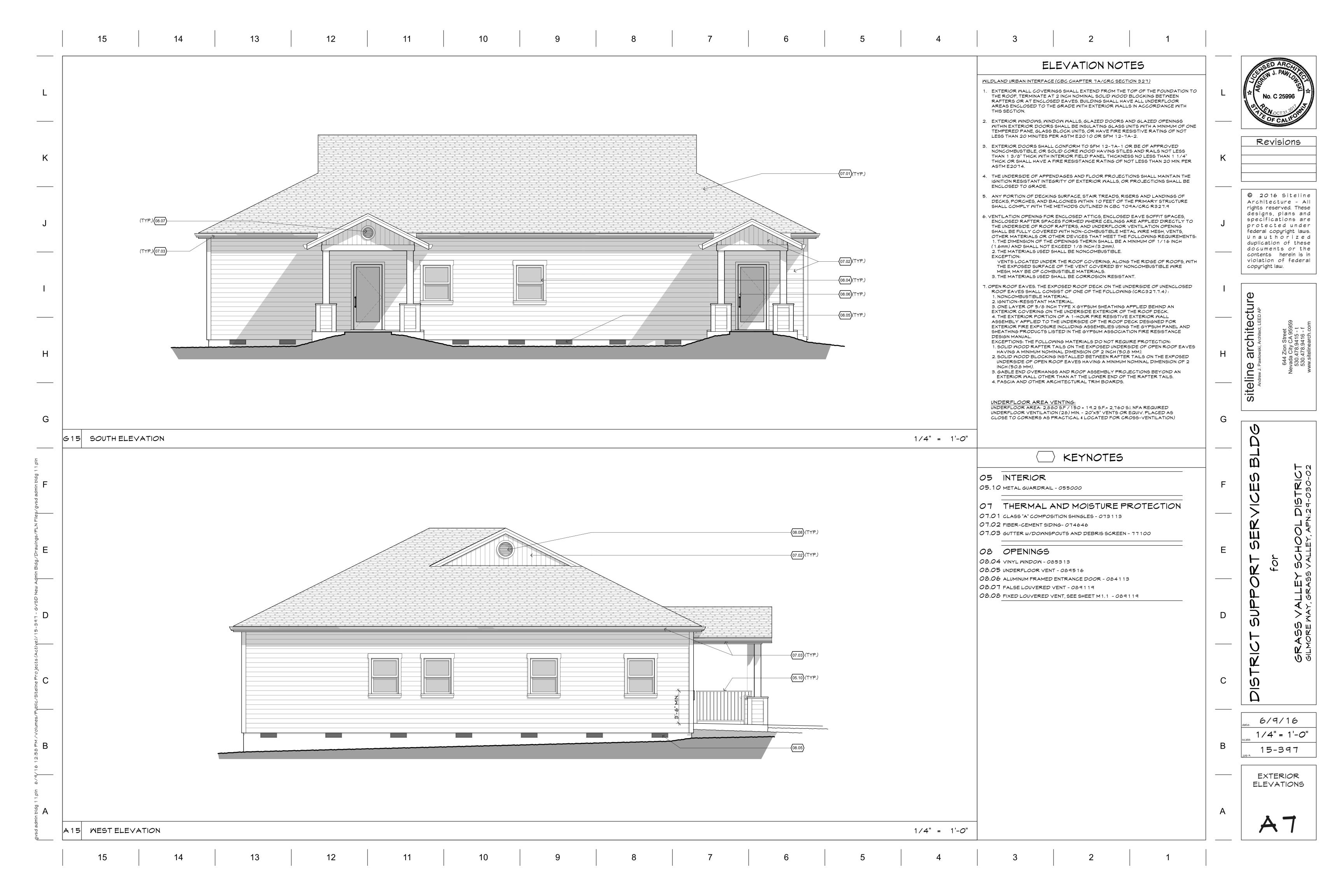
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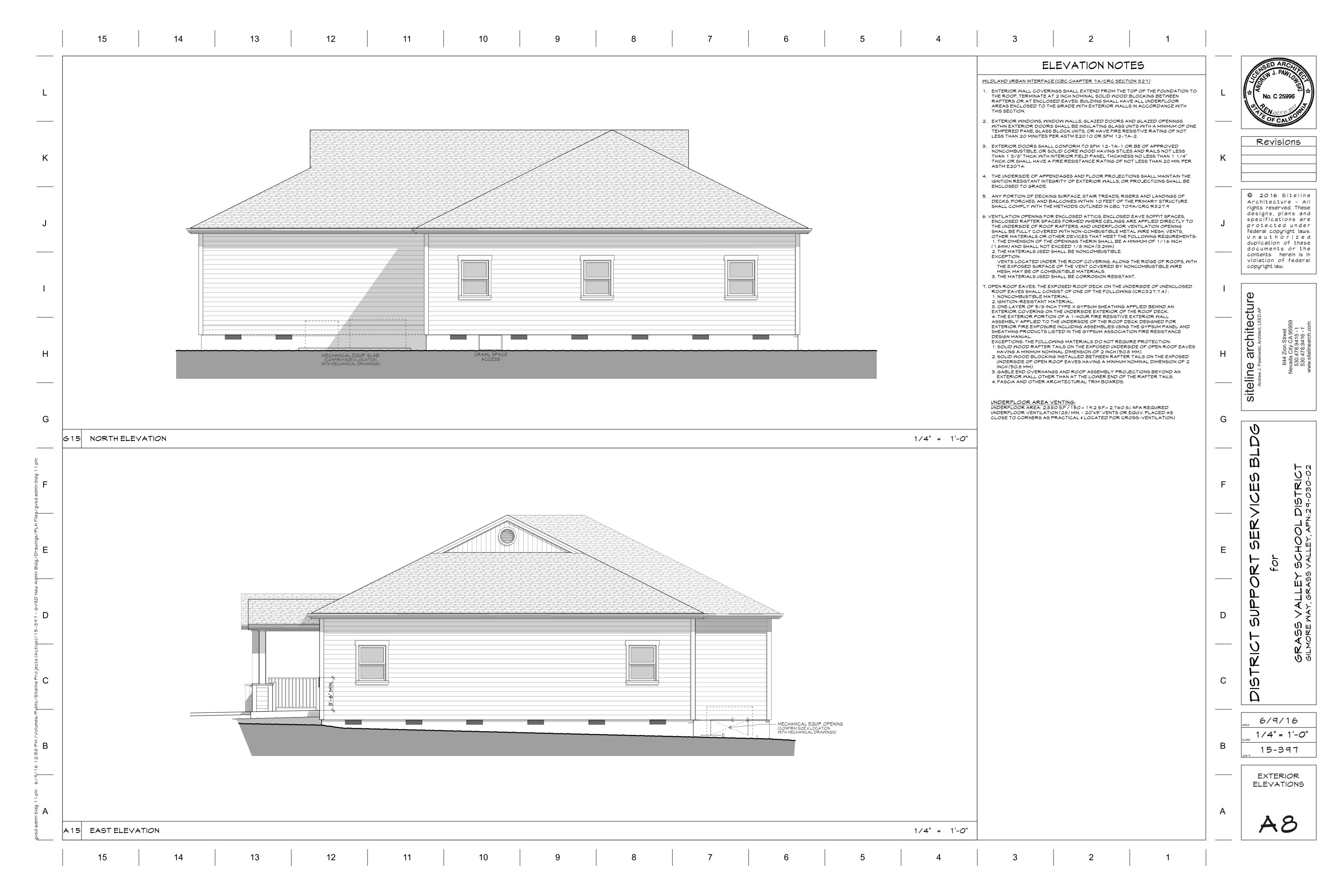




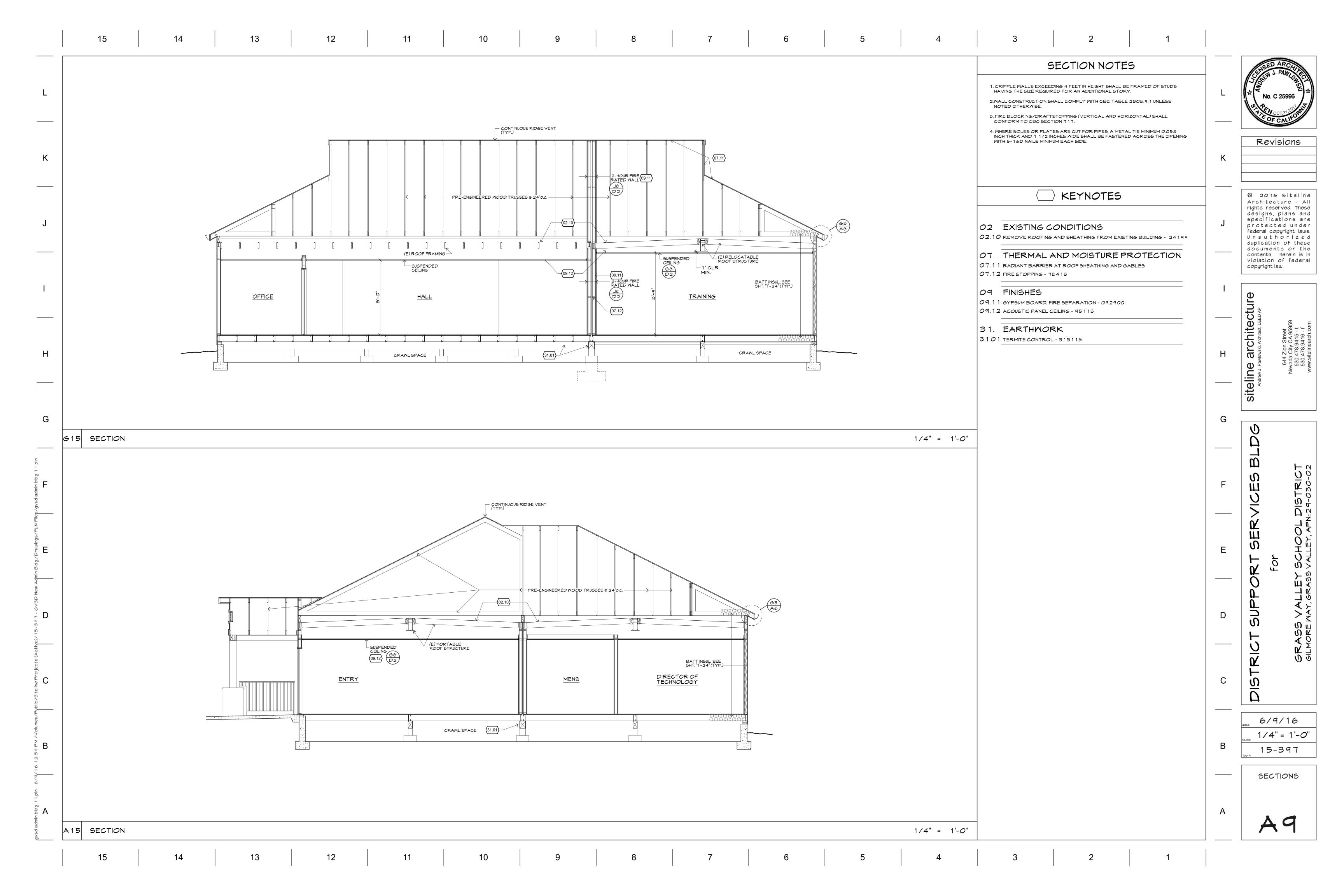


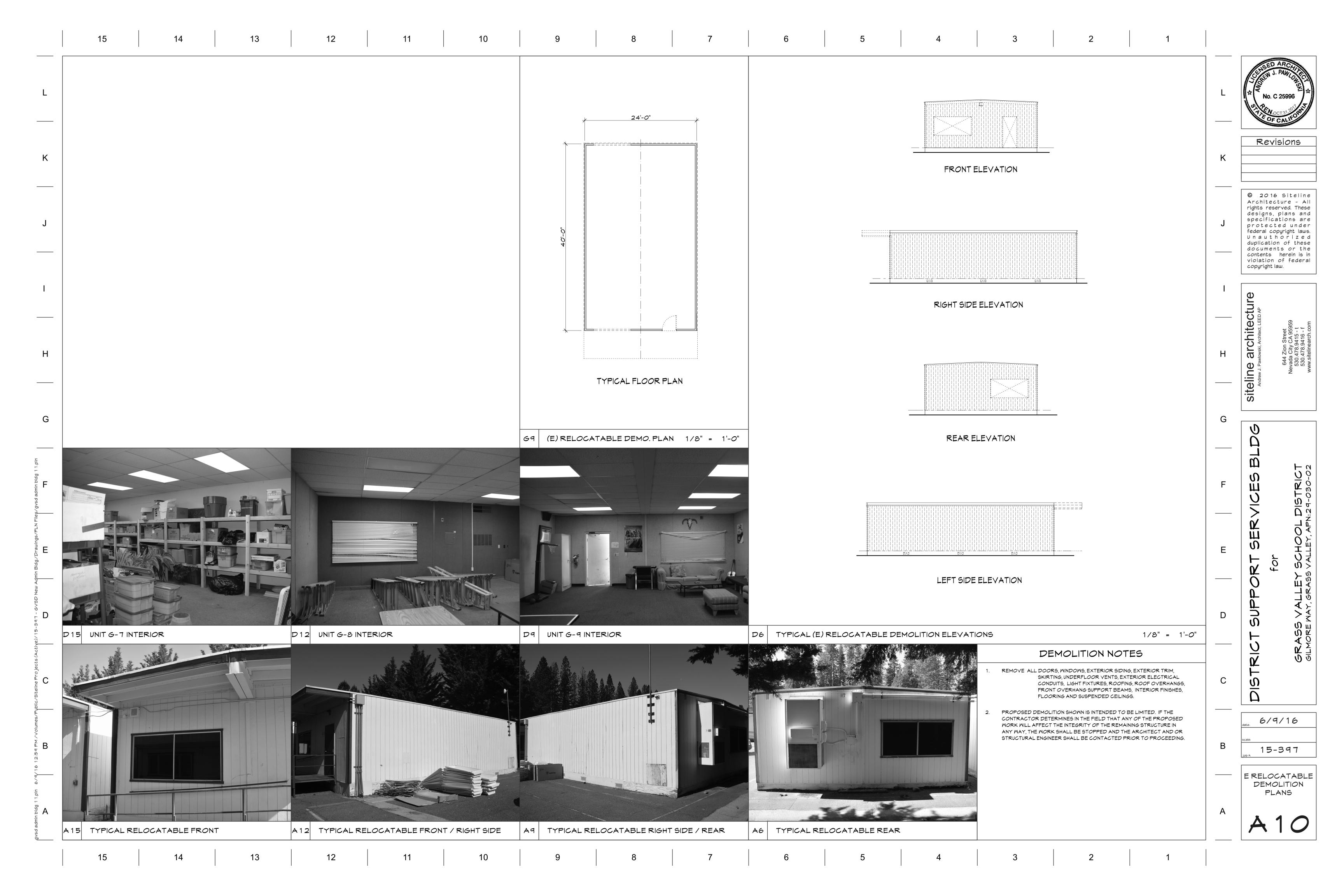


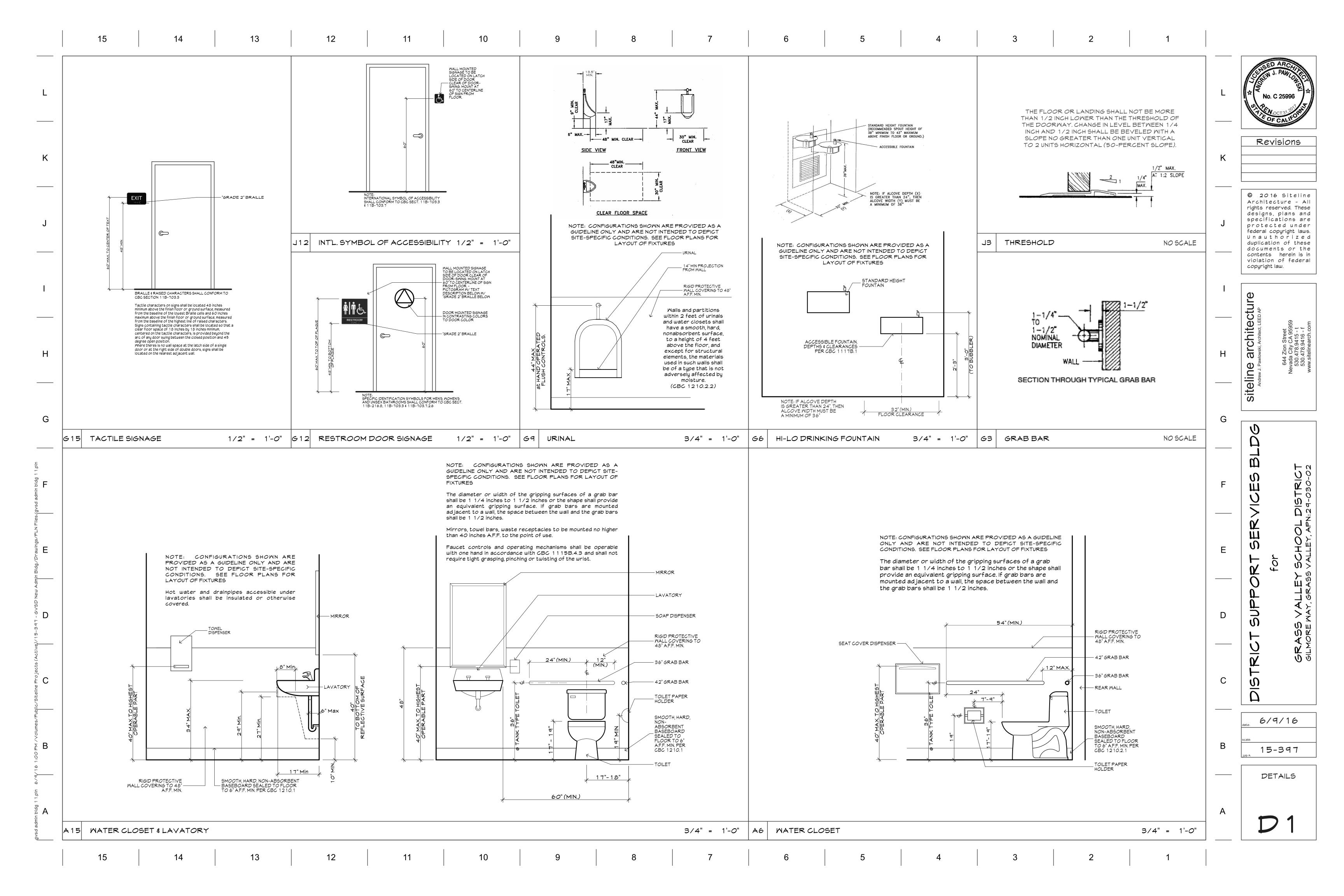


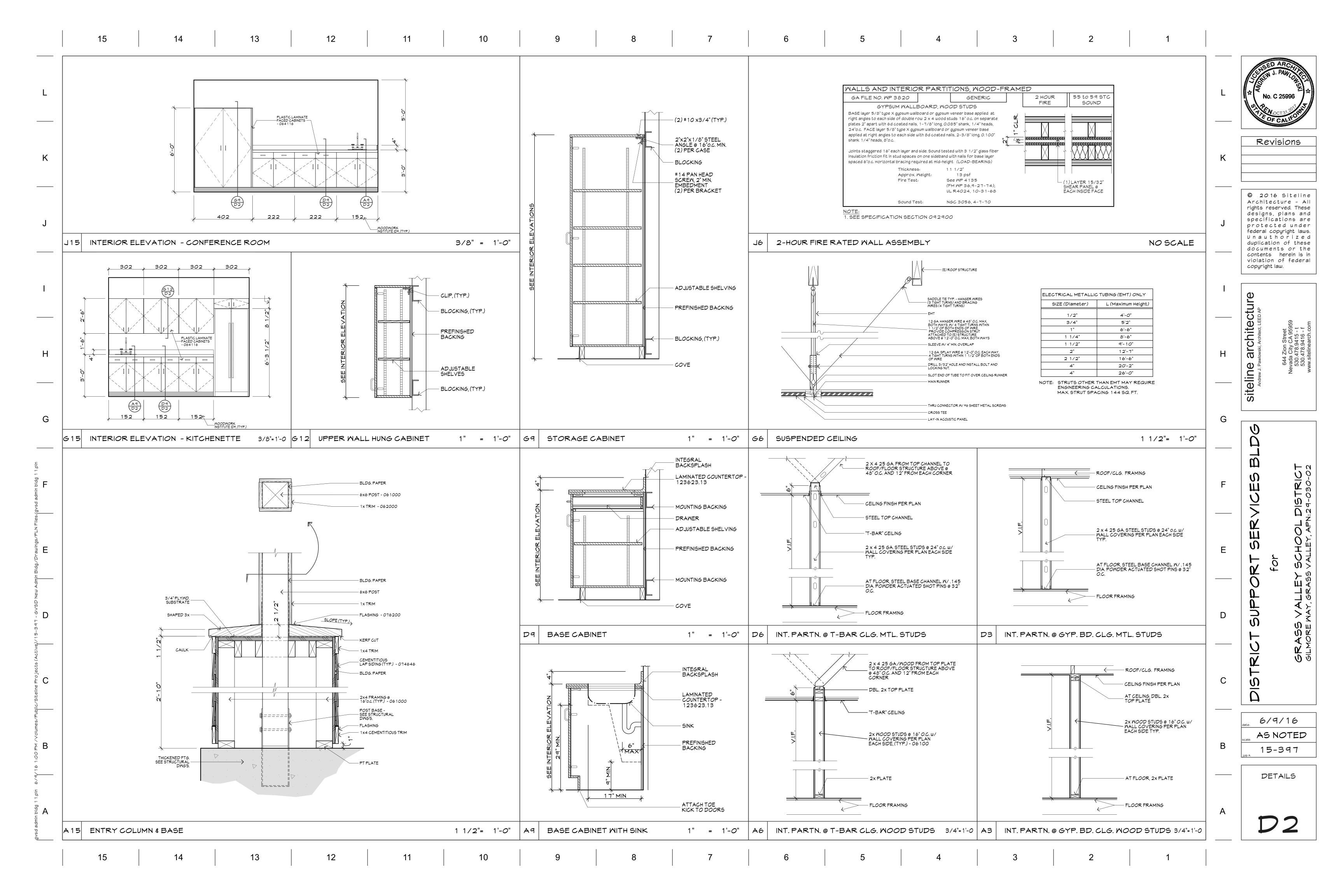












SHEET SEQUENCE NUMBER

SHEET OF SAME TYPE IS

<u>DETAIL TYPE DESIGNATOR</u> 0 - TYPICAL DETAILS

1 - FOUNDATION DETAILS

2 - FRAMING DETAILS

5 - MASONRY DETAILS

SHEET TYPE DESIGNATOR

5 - STRUCTURAL ELEVATIONS

LOCATION OF STRUCTURAL

DETAIL CUT LINE
DETAIL CUT LOOKING IN THE

DIRECTION OF THE SECTION

<u>DETAIL NUMBER</u> SPECIFIC TO EACH DETAIL.

DETAIL LOCATION NUMBER SHEET LOCATION. SEE

SHEET NUMBER DESCRIPTION

6 - SK DETAILS / CONSTRUCTION ADMIN

1 - FOUNDATION PLANS

6 - CUSTOM DETAILS

0 - SPECIFICATIONS

2 - FRAMING PLANS

STRUCTURAL SHEETS

DETAIL OR SECTION

CUT. THE SECTION IS

CONTINUOUS UNO.

3 - SHEAR PLANS 4 - DETAILS

DETAIL CALL OUT DESCRIPTION

STRUCTURAL ABBREVIATIONS

- ANCHOR BOLT

- ABOVE

- ADJACENT

ARCH - ARCHITECTURAL

BN - BOUNDARY NAILS

- CENTERLINE

- CONTINUOUS

- DOUGLAS FIR

- DEAD LOAD

- EXISTING ELECT - ELECTRICAL

- EDGE NAIL

- EACH SIDE

- EACH WAY FDN - FOUNDATION

FOHC - FREE OF HEART CORE

- GENERAL CONTRACTOR GLB - GLUED LAMINATED BEAM

HSS - HOLLOW STRUCTURAL SECTION

- INTERNATIONAL BUILDING CODE

- DOWN

ENGR - ENGINEER

FF - FINISH FLOOR

FOS - FACE OF STUD

FS - FAR SIDE GA - GAGE

GALV - GALVANIZED

GYP BD - GYPSUM BOARD HD - HOLDOWN HORIZ - HORIZONTAL

> - INTERMEDIATE - INVERTED

- LONG LEG VERTICAL - LONG LOG HORIZONTAL

- LAMINATED STRAND LUMBER

- LAMINATED VENEER LUMBER

- KING POST - KING STUD - LIVE LOAD

LWT - LIGHTWEIGHT MAX - MAXIMUM MECH - MECHANICAL MFR - MANUFACTURER

MISC - MISCELLANEOUS NS - NEAR SIDE OC - ON CENTER

OCEW - ON CENTER EACH WAY OH - OPPOSITE HAND OPNG - OPENING

PLS - POUNDS PER LINEAR FOOT

PSF - POUNDS PER SQUARE FOOT

PSL - PARALLEL STRAND LUMBER

PT - PRESSURE TREATED

SMS - SHEET METAL SCREW

- SYMMETRICAL

- TOP & BOTTOM

- TUBE STEEL

WWF - WELDED WIRE FABRIC

- TONGUE AND GROOVED

- UNIFORM BUILDING CODE UNO - UNLESS NOTED OTHERWISE

STD HK - STANDARD HOOK

MIN - MINIMUM

PL - PLATE

PW - PLYWOOD REIINF - REINFORCEMENT SCHED - SCHEDULE SHTHG - SHEATHING

SIM - SIMILAR STAG - STAGGARED STIFF - STIFFENER SW - SHEARWALL

THRU - THROUGH TN - TOE NAIL

TYP - TYPICAL

VERT - VERTICAL VIF - VERIFY IN FIELD

W/ - WITH

SYM

T&G

TS

COLUMN

CBC - CALIFORNIA BUILDING CODE - CONSTRUCTION JOINT

- DOUGLAS FIR PRESSURE TREATED

ADD'L - ADDITIONAL

BLKG - BLOCKING

BTWN - BETWEEN

CONC - CONCRETE

BLW - BELOW

XXX

S-XXX

ABV

AD.I

CJ

COL

CONT

DN

EN

GC

INV KP

LSL

LVL

3 - SHEAR DETAILS

4 - STEEL DETAILS

REQUIRED

SUB-GROUP OF DESIGNATORS

USED WHEN MORE THAN ONE

S-XXX

DESIGNED BY

UPP

R H

DRAFTED BY

CLIENT INFORMATION

GRASS VALLEY SCHOOL DISTRICT 10840 GILMORE WAY GRASS VALLEY, CA 95945

PROJECT#

ISSUE DATE

SCALE

05/19/2016 As indicated

SPECIFICATIONS

THE PROJECT IS TO SEPERATE EXISTING MODULAR BUILDINGS, RELOCATE, AND REASSEMBLE MODULAR BUILDINGS AT A NEW LOCATION. THE MODULAR BUILDINGS WILL HAVE A NEW CONCRETE FOUNDATION. THE BUILDINGS WILL HAVE A NEW TRUSS ROOF.

APPLICABLE CODES

2013 CALIFORNIA BUILDING CODE (2013 CBC) 2012 NATIONAL DESIGN STANDARD (2012 NDS) STEEL CONSTRUCTION MANUAL, 14 ED. (AISC 14 ÉD.)

ADDITIONAL BUILDER NOTES

1. UNLESS EXPLICITLY STATED IN THESE CONSTRUCTION DOCUMENTS, BY NOTE OR CLARIFICATION LETTER, THE ENTIRE SCOPE OF WORK REPRESENTED BY THESE DOCUMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

2. THESE CONSTRUCTION DOCUMENTS REPRESENT THE DESIGN INTENT OF THE DESIGN TEAM BASED ON DIMENSIONS OF EXISTING SITE AND/OR FIELD CONDITIONS. ACTUAL CONDITIONS MAY REQUIRE MODIFICATIONS OF THE CONSTRUCTION DETAILS TO ACHIEVE THE DESIGN INTENT. CONTRACTOR SHALL NOTIFY DESIGN TEAM IN WRITING OF ANY DISCREPANCIES RELATED TO EXISTING SITE AND/OR FIELD CONDITIONS PRIOR TO CONTINUING ANY WORK.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RECORD ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS AND TO BRING THEM TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING ANY WORK, ANY DEVIATION FROM THE CONDITIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE DESIGN TEAM.

4. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECENDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING ANY WORK.

5. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. WORK REQUIRED TO BE DONE BY ONE DOCUMENT AND NOT BY OTHERS SHALL BE DONE AS IF REQUIRED BY ALL.

6. THE CONTRACTOR AND SUBCONTRACTOR SHALL MAKE NO STRUCTURAL SUBSTITUTIONS, CHANGES, OR MODIFICATIONS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

7. CONTRACTORS AND SUBCONTRACTORS SHALL ENSURE THAT ALL WORK IS PERFORMED IN A PROFESSIONAL AND WORKMANLIKE MANNER BY SKILLED MECHANICS OF THE TRADE. SUBCONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK IN A TIMELY MANNER.

8. BUILDER'S SET: THIS SET OF DRAWINGS HAS BEEN PREPARED SUFFICIENT TO OBTAIN A BUILDING PERMIT ALL MATERIALS AND METHODS OF CONSTRUCTION NECESSARY TO COMPLETE THE PROJECT ARE NOT NECESSARILY DESCRIBED IN THIS "BUILDER'S SET". THE IMPLEMENTATION OF THE DRAWINGS REQUIRES THE CONTRATOR TO BE THOROUGHLY KNOWLEDGEABLE WITH THE APPLICATIONS OF CODES AND THE METHODS OF CONSTRUCTION SPECIFIC TO THIS PROJECT AND TYPE OF CONSTRUCTION.

9. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.

10. ALL WATERPROOFING, FLASHING, AND DRAINAGE ARE TO BE DESIGNED AND PROVIDED BY THE BUILDER.

GENERAL NOTES

ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-02 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION." CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING CODE (CBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK, SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS, WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN <u>BOTH</u> ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

RISK CATEGORY: II - TABLE 1604.5

VERTICAL LOADS			
AREA	DESIGN DEAD LOAD	LIVE LOAD	CONCENTRATED LOADS
ROOF	15 PSF	20 PSF	
FLOOR	30 PSF	100 PSF	

SNOW: FOR SITES OVER 25 PSF.

Pg = 50 PSF (GROUND SNOW LOAD) Pf = .7PgCeCt I = 39 PSF (FLAT ROOF SNOW LOAD) Ps = CsPf = 39 PSF (SLOPED ROOF SNOW LOAD) Is = 1.0, Ce = 1.0, Ct = 1.1, Cs = 1.0

LATERAL FORCES ALTERNATE HEIGHTS METHOD EXPOSURE CATEGORY = C RISK CATEGORY = II BASIC WIND SPEED, V = 115 MPH Pnet = .00256V^2KzCnetKzt Kz = .92Cnet- WINDWARD = .43

Cnet- LEEWARD = .51

Pnet = 29.2 PSF

S-430

V = CsWCs = Sds/(R/I); 0.044 Sds*Ie < Cs < Sd1/((R/Ie)*T)

SEISMIC IMPORTANCE FACTOR, le = 1 SPECTRAL RESPONSE ACCELERATION Ss = 0.585, S1 = .243 SITE CLASS PER TABLE 20-3.1 OF ASCE 7-10 = D SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.519, Sd1 = 0.310 SEISMIC DESIGN CATEGORY = D ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE ANALYSIS RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1 (ASCE 7-10) R = 6.5 Cs = 0.80

DESIGN BASE SHEAR, V = 7.617 KIPS (ULTIMATE)

heet Number	Sheet Name	
-000	COVER PAGE	
-001	SPECIFICATIONS	
-100	FOUNDATION PLAN	
-200	ROOF FRAMING PLAN	
-300	SHEAR PLAN	
410	FOUNDATION DETAILS	
-420	FRAMING DETAILS	

SHEAR DETAILS

PROJECT SUMMARY

HARDWARE AT BOTTOM

HARDWARE AT TOP

FLOOR FRAMING NOTES

TREATED DF#1.

FOUNDATION NOTES

EDGE DISTANCE REQUIREMENTS.

SHEET S-001.

INFORMATION.

CONSTRUCTION.

1) FLOOR BEAMS AND SUPPORTING POST SHALL BE PRESSURE

2) SEE ADDITIONAL REQUIREMENTS IN STRUCTURAL SPECIFICATIONS

3) SEE SHEET S-430 FOR SHEARWALL NOTES, SCHEDULES, & DETAILS.

1.) SEE TYP NOTES AND DETAILS ON SHEET S-001 FOR ADDITIONAL

2.) SECURE ALL HOLDOWN ANCHORS WITHIN FORMWORK PRIOR TO

3.) BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS PRIOR TO

4.) WIDEN/EXTEND FOOTINGS AS REQUIRED TO PROVIDE SUPPORT

5.) INSTALL ALL HOLDOWN ANCHORS PER MANUFACTURER SPECS &

CONCEALED BEAM OR HEADER

FOR ANY VENEER SHOWN ON ARCHITECTURAL DRAWINGS.

FOUNDATION & FLOOR FRAMING LEGEND

NEW FOOTING

Z/Z/Z WALLS ABOVE FRAMING

— FLOOR JOIST

POST, TRIMMER OR COLUMN

MEMBER SIZE

□ DISCONTINUOUS POST ABV

POST BELOW FRAMING

ANCHOR	BOLT SCHEDULE	
SYMBOL	ANCHOR SIZE AND SPACING	3x MUDSILL RE
48">	5/8" x 12" J BOLTS at 48" O.C.	NO
32">	5/8" x 12" J BOLTS at 32" O.C.	NO
24">	5/8" x 12" J BOLTS at 24" O.C.	NO
16">	5/8" x 12" J BOLTS at 16" O.C.	YES
12">	5/8" x 12" J BOLTS at 12" O.C.	YES

- 1.) PROVIDE ANCHORS AT 48" O.C. UNDER ALL WINDOWS UNO
- 2.) ANCHOR BOLT SPACING SPECIFIED IS AT SHEARWALLS ONLY. AT
- OTHER LOCATIONS PROVIDE ANCHOR BOLTS AT 48" O.C. TYP UNO. 3.) ANCHORS SHALL HAVE 7" EMBEDMENT AND AMPLE THREADS TO
- ACCOMMODATE A 3X PLATE 4.) ANCHOR BOLTS SHALL HAVE A MINIMUM .229"x3"x3" WASHER OR APPROVED EQUAL. THE PLATE WASHER SHALL EXTEND WITHIN 1/2" OF
- THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING 5.) ALL SILL PLATES TO BE BORATE PRESSURE TREATED

HOLDOV	VN HARD	WARE SCHEDU	ILE	
HOLDOWN	ANCHOR	ALT. EMBED	EMBED INTO FTG	RETROFIT
HDU2	SB 5/8x24	5/8" ROD 18" EMBED	N.A.	1/2"x15" THD 10" EMBED
HDU4	SB 5/8x24	5/8" ROD 18" EMBED	N.A.	5/8" ROD 18" EMBED EPOXY
HDU5	SB 5/8x24	5/8" ROD 18" EMBED	N.A.	5/8" ROD 18" EMBED EPOXY
HDU8	SB 7/8x24	7/8" ROD 18" EMBED	N.A.	7/8" ROD 18" EMBED EPOXY
HDU11	N.A.	N.A.	1" ROD 18" EMBED	N.A.
HDU14	N.A.	N.A.	1" ROD 18" EMBED	N.A.
HD19	N.A.	N.A.	1 1/4" ROD 18" EMBED	N.A.

^{1.)} THE ROD IS TO BE A307 ALL-THREAD WITH DOUBLE NUT AND 3/8x2 1/2x2 1/2 PLATE WASHER (1/2x3x3 AT HD19). SIMPSON PAB8 AND PAB10 CAN BE SUBSTITUTED.

CONT. F	OOTING SCHEDULE	
SYMBOL	FOOTING SIZE	REBAR
18	18" WIDE x 10" THICK	(3) #4 CONT.

PAD FOOTING SCHEDULE

יטועהו	JING GOILDGEE	
SYMBOL	FOOTING SIZE	REBAR
(24x24)	24" SQ x 12" THICK	(4) #3 EW
(36x36)	36" SQ x 12" THICK	(5) #4 EW

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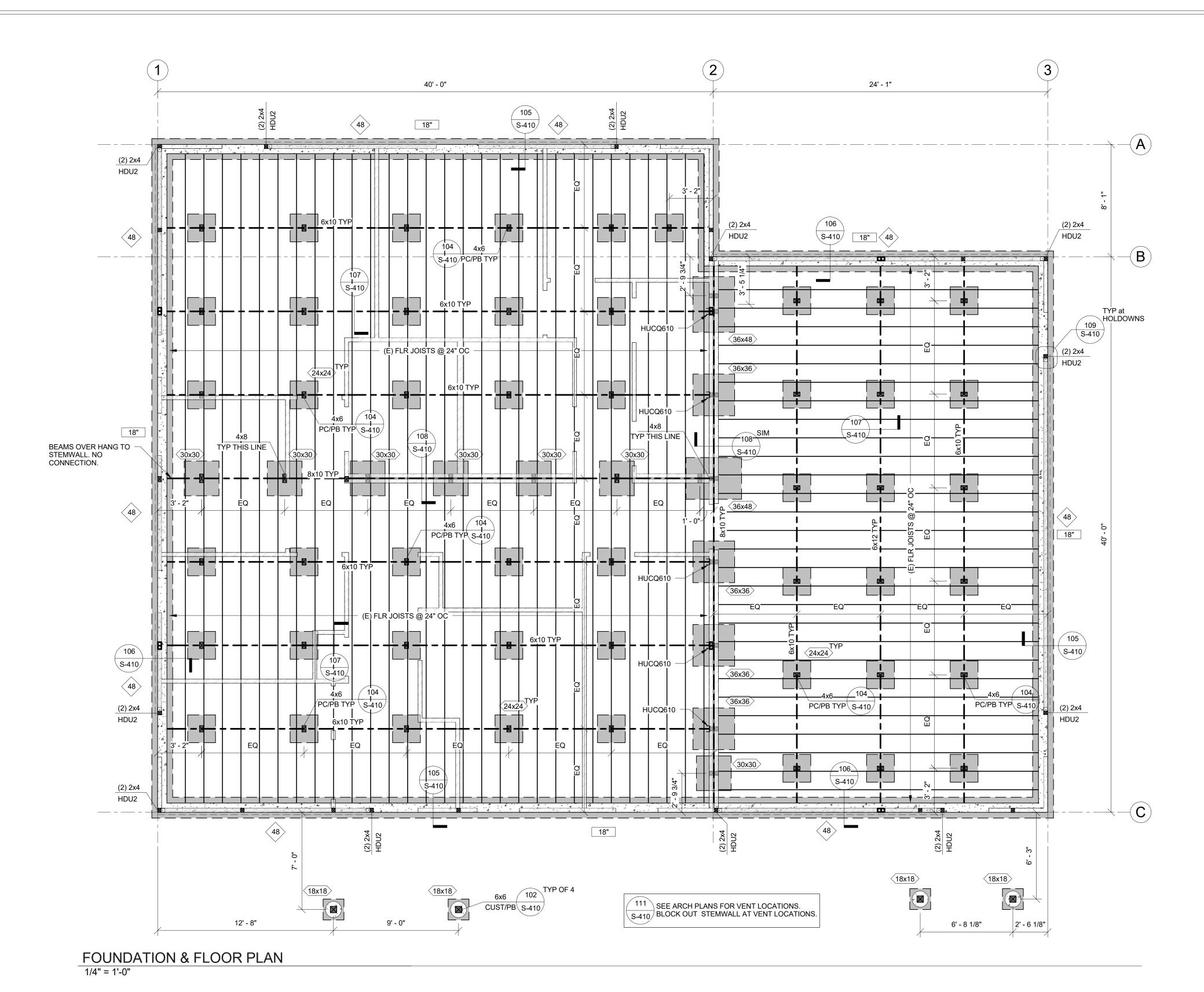
GRASS VALLEY SCHOOL DISTRICT 10840 GILMORE WAY GRASS VALLEY, CA 95945

PROJECT#

ISSUE DATE 05/19/2016

SCALE As indicated **FOUNDATION** PLAN

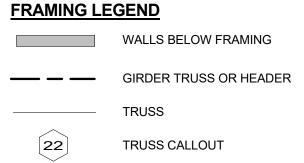
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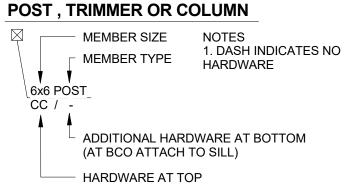


ROOF FRAMING NOTES

1) ROOF SHEATHING TO BE 1/2" APA RATED 32/16 W/ 10d (0.148 SHANK DIAMETER) at 6" O.C. BOUNDARY & EDGES AND 12" O.C. FIELD (UNO). SEE DIAPHRAGM NAILING DETAIL ON S-430 FOR MORE INFO. 2) SEE TRUSS CALCULATION PACKAGE FOR MORE INFORMATION. 3) ALL BEARING/PERIMETER WALLS - TOP PLATE SPLICES W/ (12) 16d AT LAP PROVIDE MST37 AT ANY PLATE DISCONTINUITIES (UNO). 4) SEE ADDITIONAL REQUIREMENTS IN STRUCTURAL SPECIFICATIONS SHEET S-001.

5) PROVIDE MIN OF ONE STUD UNDER EVERY TRUSS OR RAFTER. 6) BRACE TRUSS MEMBERS PER TRUSS MANUFACTURER.





HANGER - SEE SCHEDULE

POST BELOW FRAMING

☐ DISCONTINUOUS POST ABV FRAMING

ROOF OVERFRAMING

1.) (N) TRUSSES STACK ABOVE EXISTING ROOF. 2.) PROVIDE SOLID PACKING (4" MIN) BETWEEN TRUSSES AND ALL BÉARING LINES (SEE DETAILS) TO PROVIDE LEVEL SURFACE. 3.) PROVIDE (MIN 4") GAP BETWEEN TRUSS BOTTOM CHORDS AND (E) ROOF DECK THROUGHOUT.

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05/19/2016

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PLAN

SCALE As indicated **ROOF FRAMING**

S-200

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GRASS VALLEY, CA 95945

05/19/2016

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HDU14 1" ROD 18" EMBED N.A. HD19 N.A. N.A. 1 1/4" ROD 18" EMBED 1.) THE ROD IS TO BE A307 ALL-THREAD WITH DOUBLE NUT AND 3/8x2 1/2x2 1/2 PLATE WASHER (1/2x3x3 AT HD19). SIMPSON PAB8 AND PAB10 CAN BE SUBSTITUTED.

1" ROD 18" EMBED

RETROFIT

1/2"x15" THD 10" EMBED

5/8" ROD 18" EMBED EPOXY

7/8" ROD 18" EMBED EPOXY

N.A.

N.A.

N.A.

HOLDOWN HARDWARE SCHEDULE

HDU2 SB 5/8x24 5/8" ROD 18" EMBED

HDU4 SB 5/8x24 5/8" ROD 18" EMBED

HDU5 SB 5/8x24 5/8" ROD 18" EMBED

HDU8 SB 7/8x24 7/8" ROD 18" EMBED

HDU11

2

305 S-430

16'-7"

109 (2) 2x4

S-410/HDU2

SHEAR TRUSS - 3036#

3

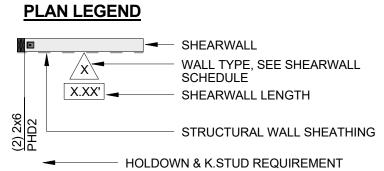
-(A)

(2) 2x4 109 HDU2 S-410

(2) 2x4 109 HDU2 S-410

(2) 2x4 109 HDU2 S-410

SHEAR	WALL SCH	EDULE								
		1			2	3	4	5	6	7
PLAN SYMBOL	SHEATHING THICKNESS (IN)	PANEL EDGE NAILING	FRAMING AT ABUTTING PANEL EDGES	ALLOWABLE SHEAR (PLF)	SILL PLATE AGAINST CONC. OR MASONRY	SOLE PLATE ON SUBFLR FRAMING	SOLE PL NAILING	ADD BLKG OR CONT. MEMBER	F. CLIPS TYPE PER DETAIL	A. BOLTS TYPE PER DETAIL
6	15/32	10d COM. at 6" O.C.	2X	310	2X	2X	16d at 6" O.C.	NOT REQ.	at 24" O.C.	at 48" O.C
4	15/32	10d COM. at 4" O.C.	3X	460	2X	2X	16d at 4" O.C.	NOT REQ.	at 16" O.C. NOTE 15 &17	at 32" O.C
3	15/32	10d COM. at 3" O.C.	3X	600	2X	2X	16d at 3" O.C.	1 3/4" LSL	at 12" O.C. NOTE 15 &17	at 24" O.C
2	15/32	10d COM. at 2" O.C.	3X	770	3X	3X NOTE 16	1/4" SDS X 4.5" at 8" O.C. NOTE 16	1 3/4" LSL	at 8" O.C. NOTE 15 &17	at 24" O.C
4/4	15/32 BOTH SIDES	10d COM. at 4" O.C.	3X	920	3X	3X	1/4" SDS X 4.5" at 6" O.C.	2 1/4" LSL	at 8" O.C.	at 16" O.C
3/3	15/32 BOTH SIDES	10d COM. at 3" O.C.	3X	1200	3X	3X	1/4" SDS X 4.5" at 6" O.C.	2 1/4" LSL	at 6" O.C.	at 16" O.C
2/2	15/32 BOTH SIDES	10d COM. at 2" O.C.	4X	1540	3X	3X	1/4" SDS X 4.5" at 4" O.C.	2 1/4" LSL	at 4" O.C.	at 12" O.C



SHEAR PLAN NOTES 1) SEE SHEET S-430 FOR SHEARWALL NOTES, SCHEDULES, & DETAILS.

PROVIDE 10d at 6" OC BOUNDARY NAILING / 6" OC EDGE NAILING / 10" OC FIELD NAILING.

S-300

SCALE 2) SEE SHEET S-001 FOR SPECIFICATIONS AND GENERAL NOTES. SHEAR PLAN 3) SEE ROOF AND FLOOR FRAMING PLANS SHEETS S-2XX FOR ROOF & FLOOR SHEATHING REQUIREMENTS. 4) HATCHED AREAS ARE FOR BLOCKED DIAPHRAGMS 5) EDGE NAIL TO ALL MEMBERS INDICATED COLLECTORS

109 (2) 2x4 S-410 HDU2

304 S-430

304

S-430

304 S-430

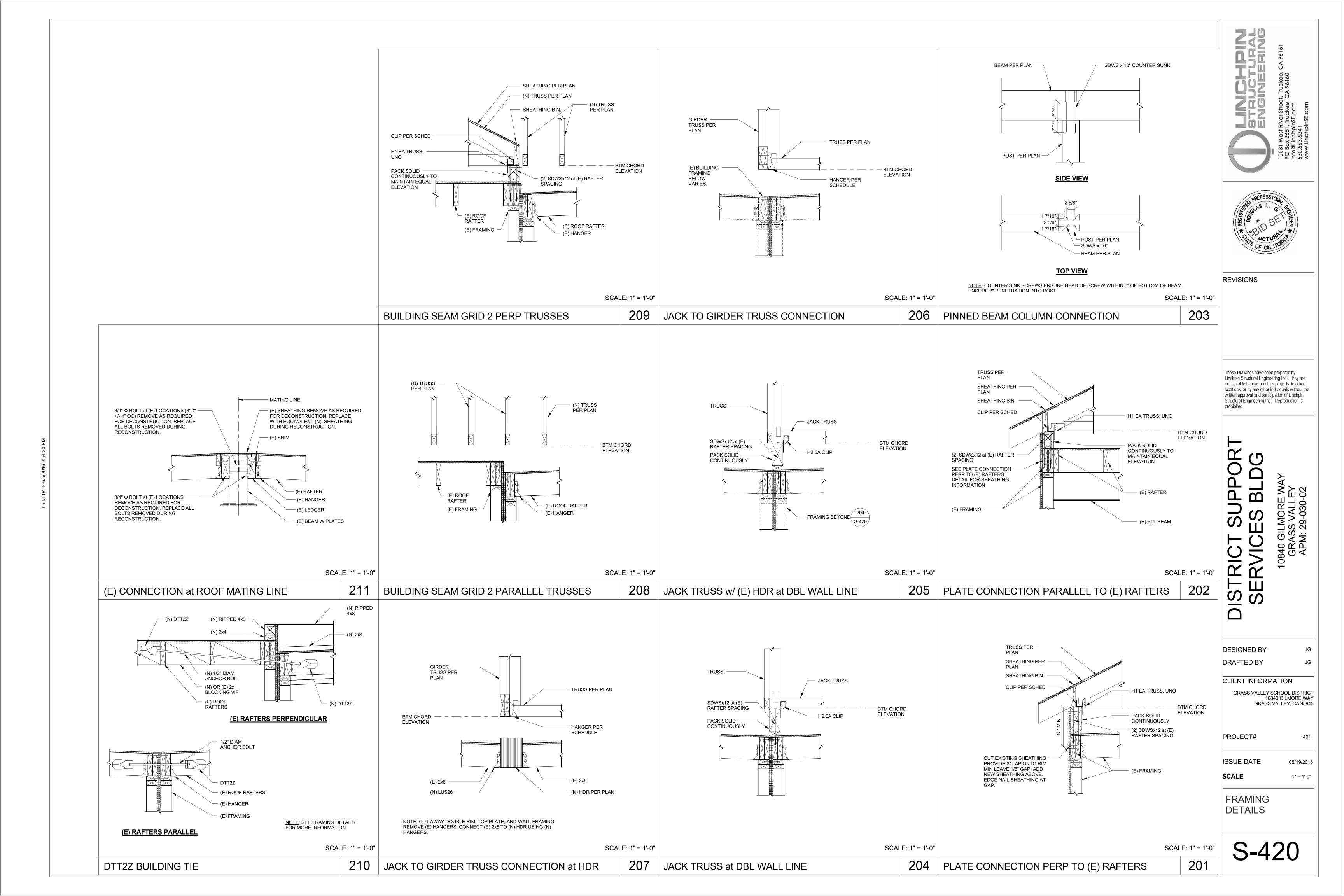
109 (2) 2x4

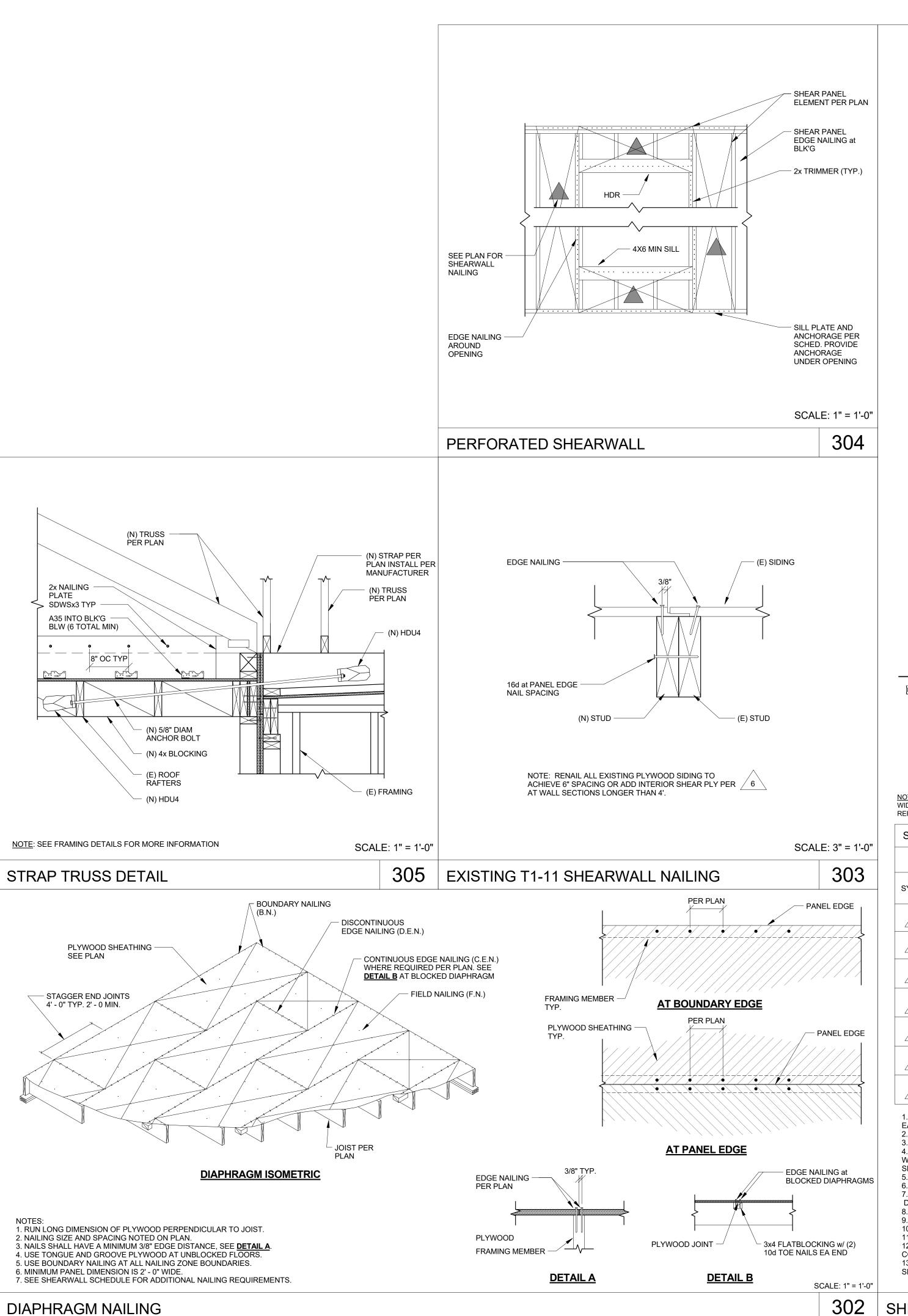
1/4" = 1'-0"

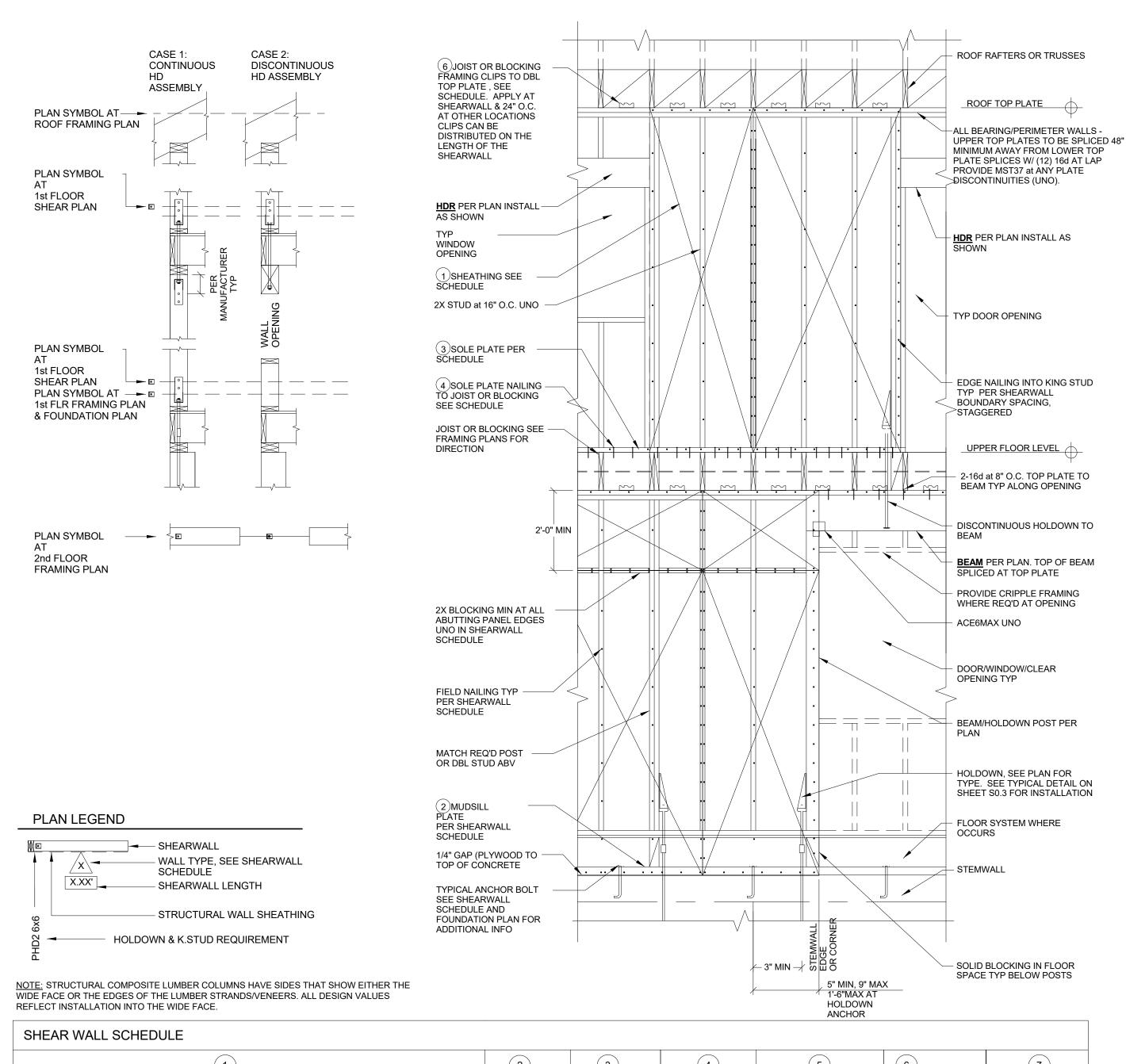
15'-7"

ROOF DIAPHRAM & SHEARWALL PLAN

S-410/HDU2







SHEAR	WALL SCHE	DULE								
		1			2	3	4	5	6	7
PLAN SYMBOL	SHEATHING THICKNESS (IN)	PANEL EDGE NAILING	FRAMING AT ABUTTING PANEL EDGES	ALLOWABLE SHEAR (PLF)	SILL PLATE AGAINST CONC. OR MASONRY	SOLE PLATE ON SUBFLOOR FRAMING	SOLE PLATE NAILING	ADDITIONAL BLOCKING OR CONT. MEMBER AT SHEAR TRANSFER	FRAMING CLIPS TYPE PER DETAIL	ANCHOR BOLTS TYPE PER DETAIL
6	15/32	10d COM. at 6" O.C.	2X	310	2X	2X NOTE 16	16d at 6" O.C. NOTE 16	NOT REQUIRED	at 24" O.C.	at 48" O.C.
4	15/32	10d COM. at 4" O.C.	3X	460	2X	2X NOTE 16	16d at 4" O.C. NOTE 16	NOT REQUIRED	at 16" O.C. NOTE 15 &17	at 32" O.C.
3	15/32	10d COM. at 3" O.C.	3X	600	2X	2X NOTE 16	16d at 3" O.C. NOTE 16	1 3/4" LSL	at 12" O.C. NOTE 15 &17	at 24" O.C.
2	15/32	10d COM. at 2" O.C.	3X	770	3X	3X NOTE 16	1/4" SDS X 4.5" at 8" O.C. NOTE 16	1 3/4" LSL	at 8" O.C. NOTE 15 &17	at 24" O.C.
4/4	15/32 BOTH SIDES	10d COM. at 4" O.C.	3X	920	3X	3X	1/4" SDS X 4.5" at 6" O.C.	2 1/4" LSL	at 8" O.C.	at 16" O.C.
3/3	15/32 BOTH SIDES	10d COM. at 3" O.C.	3X	1200	3X	3X	1/4" SDS X 4.5" at 6" O.C.	2 1/4" LSL	at 6" O.C.	at 16" O.C.
2/2	15/32 BOTH SIDES	10d COM. at 2" O.C.	4X	1540	3X	3X	1/4" SDS X 4.5" at 4" O.C.	2 1/4" LSL	at 4" O.C.	at 12" O.C.

1. THERE SHALL BE A MINIMUM OF TWO ANCHORS PER PLATE, WITH AN ANCHOR LOCATED WITHIN 12" OF

2. ANCHORS SHALL BE EMBEDDED IN CONCRETE A MINIMUM OF 7".

3. ANCHOR BOLTS SHALL COMPLY WITH CBC SECTION 2304.9.5. 4. ALL ANCHORS SHALL BE INSTALLED WITH SIMPSON BP PLATE OR 3"x3" x0.299" PLATE WASHER. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE OF THE

5. AT 3X SILL PLATES, USE 12" LONG A.BOLTS FOR EXTRA THREAD LENGTH ABOVE CONCRETE. 6. WHERE 3X FRAMING AT PANEL EDGE NAILING IS REQUIRED, NAILS SHALL BE STAGGERED. 7. WHERE SHEATHING IS APPLIED TO BOTH FACES OF A WALL, PANEL JOINTS ARE TO BE OFFSET TO FALL ON 8. SHEATHING IS TO EXTEND FROM TOP PLATE TO SILL PLATE WITH NO GAPS UNO.

9. WHERE SHEAR WALLS DO NOT OCCUR, USE MIN. 15/32" SHEATHING W/ 10d at 6"/12" O.C. 10. SHEATHING SHALL BE ATTACHED TO STUDS at 16" O.C. 11. FIELD NAILING TO BE at 12" O.C. TYPICAL.

12. SHEATHING SHALL BE WOOD STRUCTURAL PANELS- C-D, C-C EXTERIOR SHEATHING OR OTHER GRADES COVERED IN PS1 AND PS2. 13. THIS SCHEDULE IS BASED ON ICBO REPORT ER-2403 WHICH DEFINES 8d COMMON NAILS AS HAVING A SHANK DIAMETER OF 0.131" AND 10d COMMON HAVING A 0.148" DIAMETER.

14. WHERE PANEL EDGES DO NOT OCCUR ON HOLDOWN POSTS, PROVIDE EDGE NAILING INTO

15. FRAMING CLIP SPACING IS AT THE SHEARWALLS ONLY. AT ALL OTHER LOCATIONS PROVIDE CLIPS at 24" O.C. CLIPS SPECIFIED AT SHEARWALL CAN BE SPREAD OUT OVER THE ENTIRE LENGTH OF WALL 24" O.C. MAXIMUM. 16. IF SHEARWALL WOOD SHEATHING IS SPLICED AT THE RIM PLATE AND PLATE NAILING CAN BE REDUCED TO 2X PLATE WITH 16D at 4" O.C.

17. IF SHEARWALL WOOD SHEATHING IS SPLICED AT THE FLOOR RIM JOIST, PROVIDE FRAMING CLIPS AT A MINIMUM 24" O.C. 18. AT BUILT UP HOLDOWN POSTS, SPLICE MEMBERS W/ 16d NAILS at SHEARWALL BOUNDARY

SHEAR DETAILS 19. WHERE HOLDOWN IS ATTACHED THROUGH STUD NAILER TO HOLDOWN POST, LENGTHEN SCREWS ACCORDINGLY AND EDGE/BOUNDARY NAIL BOTH NAILER AND POST.

SCALE: 1" = 1'-0'

301

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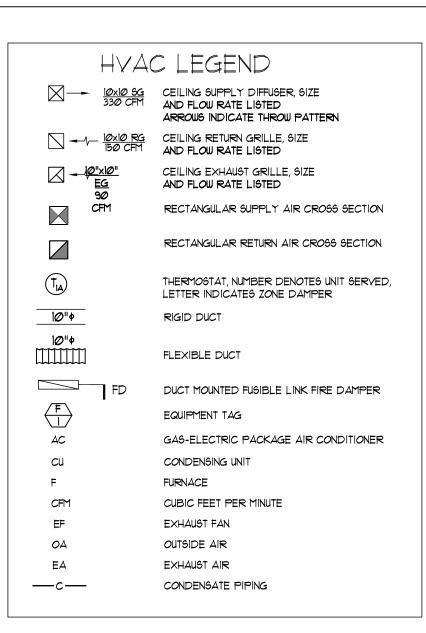
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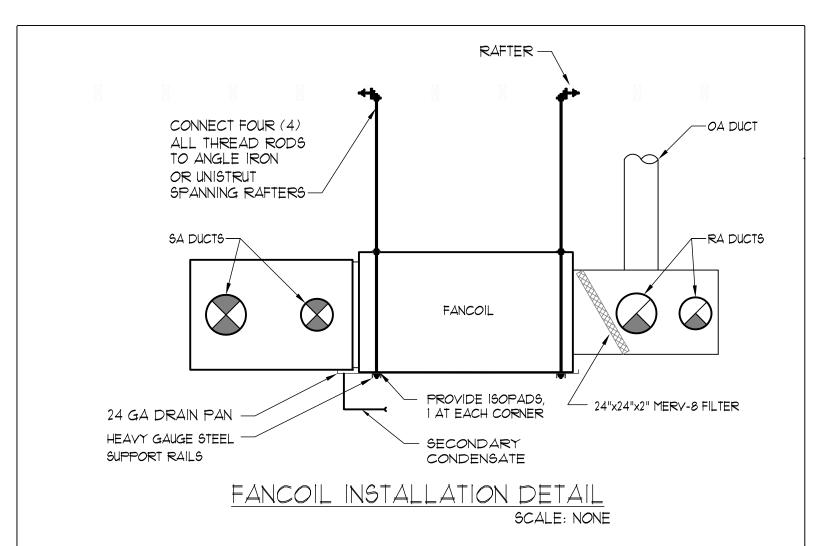
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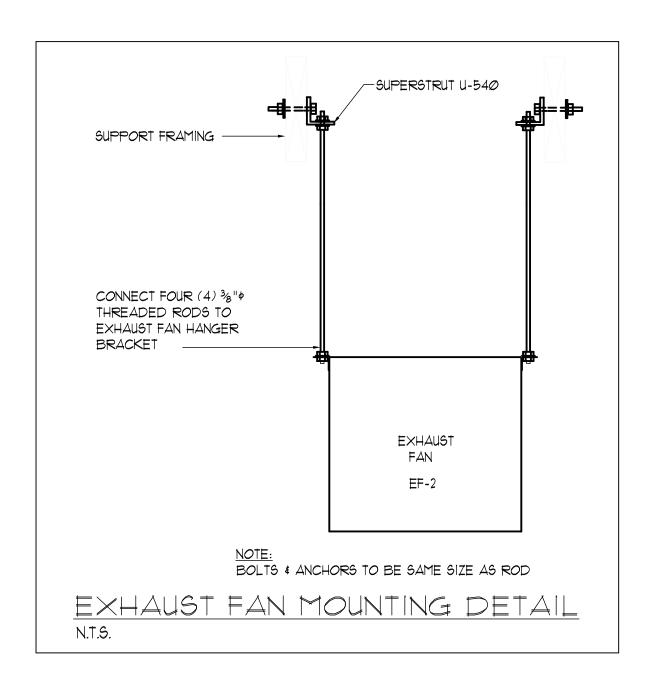
05/19/2016

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HVAC NOTES

- FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF HVAC WORK INDICATED ON THE DRAWINGS. ALSO, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
- 2. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.
- 3. ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.
- 4. CONTRACTOR SHALL VERIFY SITE DIMENSIONS, NO CHANGE ORDERS WILL BE ALLOWED FOR CONDITIONS WHICH COULD BE VERFIED BEFORE CONSTRUCTION.
- 8. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. NO CHANGE ORDERS WILL BE ALLOWED FOR TIEMS THAT COULD HAVE BEEN
- 9. RUN ALL DUCTWORK AS HIGH AS POSSIBLE IN GENERAL LOCATION SHOWN, BUT CONFORM TO ALL STRUCTURAL REQUIREMENTS,

COORDINATED IN THE FIELD.

- 10. CONTRACTOR SHALL CLEAN AWAY ALL DEBRIS, SURPLUS MATERIAL ETC. RESULTING FROM WORK DAILY, LEAVING THE JOB IN A CLEAN CONDITION.
- II. SUBMITTALS SHALL BE DELIVERED TO ARCHITECT AT LEAST 30 CALENDAR PRIOR TO THE NEED FOR APPROVAL, AND BEFORE FABRICATION AND INSTALLATION OF EQUIPMENT, CONTRACTOR SHALL SUBMIT FOR APPROVAL A COMPLETE DESCRIPTIONS, INFORMATION, AND PERFORMANCE DATA ON PROPOSED EQUIPMENT IN ACCORDANCE WITH DIVISION I. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIRED NUMBER OF EACH ITEM FOR PROPER DISTRIBUTION, SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT.
- 12. SUPPLY AIR DIFFUSERS AND RETURN/EXHAUST AIR GRILLES SHALL BE THE SIZE AND THROW PATTERN INDICATED, AND NECK VELOCITY SHALL NOT EXCEED AN NC CRITERIA CURVE OF 25. ALL DIFFUSERS SHALL BE MADE WITH SQUARE TO ROUND TRANSITIONS. INSTALL WITH METAL GROUNDS AND GASKETS TO PREVENT STREAKING.
- 13. SUPPLY AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE SHOEMAKER, OR EQUAL. PROPOSED MODEL NUMBERS FOR

DIFFERENT APPLICATIONS ARE AS FOLLOWS: APPLICATION MODEL # REMARKS T-BAR SUPPLY 100 MA (W/ OBD) MODULAR CORE WITH

T-BAR PANEL THROW PATTERN INDICATED GYPSUM SUPPLY MA (W/ OBD) MODULAR CORE THROW PATTERN INDICATED PERFORATED FACE T-BAR RETURN 105P WITH T-BAR PANEL T-BAR EXHAUST 700-600

ZINC PLATED STEEL HINGE.

EGGCRATE GRILLE WITH T-BAR PANEL EGGCRATE GRILLE GYPSUM EXHAUST 600

14. FOR EXACT LOCATION OF DIFFUSERS AND GRILLES REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.

15. FIRE DAMPERS & ACCESS: HORIZONTAL FIRE DAMPERS: C4S PRODUCTS®MODEL #FD4C FUSIBLE LINK 1-1/2 HR RATED FIRE DAMPER WITH OUT OF AIRSTREAM STYLE AND INTEGRAL "CR" STYLE SLEEVE, OR EQUAL. FRAME IS 22 GAUGE GALVANIZED STEEL, BLADES ARE 20 GAUGE. DUCT ACCESS DOOR: C4S PRODUCTS®MODEL #RAD FOR ROUND DUCT, OR EQUAL. DOOR PANEL IS 20 GAUGE STEEL WITH CONTINUOUS 16. CONTROLS A. THE VENTILATION SYSTEM SHALL BE WIRED TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS. DURING UNOCCUPIED HOURS THE UNIT SHALL CYCLE ON AND OFF WITH A DEMAND FOR HEATING AND COOLING.

B. ROOM THERMOSTATS SHALL BE PROGRAMMABLE WITH 5-1-1 DAY C. PROGRAMMING AND 24 HOUR HEATING AND COOLING SETBACK CAPABILITY.

D. PROVIDE TWO-STAGE THERMOSTATS FOR EQUIPMENT WITH TWO-STAGE HEATING AND/OR COOLING. E. PROVIDE ROOM CO2 SENSOR FOR HP-1.

F. PROVIDE OWNERS WITH OPERATION AND MAINTENANCE MANUAL. G. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ALL COMPONENTS.

H. INSTALL THERMOSTATS IN A CENTRALLY LOCATED AREAS AT 60" ABOVE FLOOR LEVEL OUT OF DIRECT SUN AND DRAFTS WHERE INDICATED ON THE MECHANICAL PLANS.

ALL LOW YOLTAGE WIRING FOR CONTROLS AND SENSORS IS THE RESPONSIBILITY OF THE MECHANICAL/HVAC CONTRACTOR. ALL CONDUIT PULLS (AND LOW YOLTAGE WIRING INSTALLATION) IS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR DURING CONSTRUCTION.

- IT. PROVIDE CAM-FARR, 2 INCH DEEP, 30% EFFICIENT FILTERS IN RETURN AIR PLENUM OF FURNACES. INSTALL DOWNSTREAM OF RETURN AIR AND FRESH AIR INTAKE.
- 18. FLUES AND COMBUSTION INLETS FOR FURNACES SHALL TERMINATE A MINIMUM OF THREE (3) FEET ABOVE ANY FRESH AIR INLET WITHIN TEN (1Ø) FEET.
- 19. OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10 FEET AWAY FROM OR 3 FEET BELOW EXHAUST AIR DISCHARGE OR PLUMBING VENTS. COYER AIR INTAKE WITH I" MESH WIRE.
- 20. SLOPE ALL CONDENSATE LINES at 1/4" PER FOOT. CONDENSATE OUTLETS SHALL TERMINATE INDIRECTLY TO APPROVED APPLIANCE OR A MINIMUM OF 6 INCHES ABOVE GROUND LEVEL. CONDENSATE LINES SHALL BE 3/4" HARD-DRAWN COPPER UNLESS OTHERWISE
- 21. SUPPORTS AND HANGERS FOR HYAC EQUIPMENT SHALL BE IN ACCORDANCE WITH THE 2013 CALIFORNIA MECHANICAL CODE. DUCT SUPPORTS AND BRACING SHALL BE IN ACCORDANCE WITH TABLE 6-5 OF THE 2013 CALIFORNIA MECHANICAL CODE AND SMACNA STANDARDS.
- 22. SUPPORTS AND HANGERS FOR HYAC EQUIPMENT SHALL BE IN ACCORDANCE WITH ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS AND THE 2013 CALIFORNIA MECHANICAL CODE. DUCTS SHALL BE SUPPORTED A 8' INTERVALS (MIN.).
- 23. AIR DISTRIBUTION SYSTEM SHALL BE BALANCED WITH AN APPROVED AND CALIBRATED AIR FLOW MEASURING DEVICE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PROVIDE INDICATED AIR FLOW RATES (WITHIN 15%). PROVIDE OWNER WITH COMPLETE AIR BALANCE REPORT IN ACCORDANCE WITH THE SPECIFICATIONS. PRIOR TO BALANCING, INSTALL CLEAN FILTERS IN EACH UNIT HAVING FILTERS. LEAVE OWNER WITH ONE SET OF SPARE FILTERS.
- 24. DUCT BALANCING DAMPERS SHALL BE USED TO PROVIDE INDICATED AIRFLOW RATES.
- 25. DUCT MATERIAL AND SEALING: A. DUCTING IN CONCEALED LOCATION SHALL BE GALVANIZED SHEET METAL OR PRE-INSULATED FLEX DUCT, AS INDICATED ON DRAWINGS. DUCT SHALL BE MANUFACTURED IN ACCORDANCE WITH CHAPT. 6 OF THE 2013 CMC AND SMACNA GUIDELINES.

B. PRE-INSULATED FLEX DUCT SHALL HAVE AN R-VALUE = 6.0 C. FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL181. D. METAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC SEALANT TO PROVIDE AIRTIGHT PROTECTION PRIOR TO INSULATION. APPLY SEALANT

ACCORDING TO MANUFACTURER'S RECOMMENDATION. E. INNER LINING OF FLEX DUCTING SHALL BE SEALED WITH MASITC SEALANT TO SHEET METAL FITTING. THE EXTERIOR LINING (INSULATION) SHALL BE SECURELY FASTENED WITH PANDUIT STRAP TO THE SHEET METAL FITTING.

- F. WHERE TURNS AND/OR TRANSITIONS EXCEED 45 DEGREES USE SHEET METAL FITTINGS AND ELBOWS. PROVIDE SHEET METAL SLEEVES FOR
- G. CORRUGATED ALUMINUM FLEX DUCT SHALL NOT BE ALLOWED. H. ALL TAPES AND MASTIC SEALANTS SHALL COMPLY WITH UL181, UL 181A, OR ULISIB.
- 26. DUCT MATERIAL AND SEALING FOR DUCT EXPOSED TO WEATHER: A. ALL DUCTING EXPOSED TO WEATHER SHALL BE 20 GA. GALVANIZED STEEL.
- B. JOINTS SHALL BE SEALED WITH "ARABOL" AND MASTIC SEALANT, OR EQUAL, TO PROVIDE WEATHERTIGHT PROTECTION PRIOR TO INSULATION. C. INSULATE DUCTING ON THE EXTERIOR WITH I" AP ARMAFLEX®SA SELF-ADHERING SHEET INSULATION. THERMAL CONDUCTIVITY = 0.23
- (BTU-IN./H-FT2-F) ASTM C 518, Ø.1 (PERMS/IN.) ASTM E 96. A. INSULATION AND SEAMS SHALL BE COATED WITH WB ARMAFLEX®FINISH FOR WEATHER PROTECTION.
- 27. WRAP ALL UNLINED CONCEALED SUPPLY AND RETURN DUCTS WITH O.C. FIBERGLASS DUCT WRAP OR JM MICROLITE, 2" THICK AND 1" PER CUBIC FOOT DENSITY. WRAP INSULATION ENTIRELY AROUND DUCT AND WIRE SECURELY IN PLACE WITH #16 WIRE 12" O.C. ON EACH SIDE OF STANDING SEAM AND OVER INSULATION JOINT, LAP ALL INSULATION JOINTS 3" MIN. INSULATE DUCTS TIGHT AGAINST OTHER WORK BEFORE HANGING IN PLACE.
- 28. DUCT SYSTEM LEAKAGE TEST A. PROVIDE DUCT TESTS FOR ALL SYSTEMS THAT HAVE ANY PORTION OF THE AIR DISTRIBUTION SYSTEM IN UNCONDITIONED SPACE (E.G. ATTICS \$ CRAWLSPACES)
- B. PERFORM FINAL DUCT PRESSURE TEST AFTER THE DRY WALL HAS BEEN FINISHED. DUCTS SHALL BE PRESSURIZED TO 25 PASCAL AND THE AIR LEAKAGE SHALL NOT EXCEED 6% OF FAN FLOW. FINAL TEST SHALL BE PERFORMED BY INDEPENDENT CERTIFIED HERS. AT THE TESTERS DISCRETION ONE OUT OF SEVEN SYSTEMS SHALL BE TESTED.
- 29. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 20 DEGREES: CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES.

C. DUCT LEAKAGE TEST SHALL BE PROVIDED BY HERS RATER.

- 30. DUCTS WITHIN 10 FEET OF AIR MOVING DEVICE SHALL BE LINED ON THE INTERIOR WITH 1" OWENS CORNING TYPE 150 AEROFLEX, OR EQUAL. MATERIAL HAS A 'K' OF 0.28 (BTU/HR-FT-°F)
- 31. PAINT DUCTWORK VISIBLE BEHIND REGISTERS AND GRILLES MATTE BLACK WITH APPROPRIATE PAINT.
- 32. SELECT, SUPPLY AND INSTALL FLEXIBLE DUCT CONNECTIONS BETWEEN SUPPLY/RETURN PLENUMS AND MAIN DUCTS TO ELIMINATE VIBRATION.
- 33. NO DUCTED OR NON-DUCTED AIR MOVING DEVICE SHALL TERMINATE
- 34. INSULATE CONDENSATE LINE WITH ARMSTRONG®1/2" WALL THICKNESS "DG TUBO-SLIT". COND=0.29 (BTU-IN/HR-°F) at 75°F IN ACCORDANCE WITH ASTM C 177 OR C 518. WHERE PIPING 19 EXPOSED TO WEATHER PROVIDE PVC JACKETING AROUND INSULATION.

								HVA	C EQU	IPMENT	SCHE	DULE					
			COOLING		HEATING			FAN			EL	ECT.					
SYMBOL	AREA SERVED	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	COIL EDB/EWB (°F)	HIGH INPUT/OUTPUT (BTU/HR)	DB (°F)	CFM	S.P. (WC)	O.A. (CFM)(2) (MIN)	VOLTAGE	MCA	COMP. LRA	FUSE/MOCP	MFGR & MODEL NO.	WEIGHT (LBS)	EFFICIENCY	REMARKS
(HP)	TRANING	42,300	40,700	80/62	46000	47	1,400	0.76	150	208/230 V. 1 PHASE	26	93	30	CARRIER # 50HCQA05	580	HSPF = 8.1 SEER = 15.8 EER=12.8	ROOFTOP HYBRID HEAT DUAL-FUEL PACKAGE UNIT INSTALL PREFAB.MFG ROOF CURB ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF
FC 2	OFFICES						1,400	0-0.8	300	208/230 V. 1 PHASE	5.4		15	CARRIER # FV4CNG005	118		VARAIBLE SPEED FANCOIL MOUNTED IN HORIZONTAL POSITION NO STRIP HEAT L=53-7/16", W=22-1/16", H=21"
HP 2	OFFICES	43,310	32,780	80/63	47,000	47				208/230 V. 1 PHASE	34.9	96	50	CARRIER # 25HNB648	316	HSPF=9.0 SEER = 16 EER=12.5	GROUND MOUNT VARAIBLE SPEED HEAT PUMP W=35", D=35", H=44"
FC 3	CONFERENCE						542		(3)	(4)	(4)	(4)	(4)	FUJITSU # ASU15RLS3	31		INDOOR HEAT PUMP WALL UNIT PROVIDE CONDENSATE PUMP
HP 3	CONFERENCE						542			208/230 V. 1 PHASE	17.2		20	FUJITSU # AOU15RLS3	86	HSPF=13.4 SEER = 25.3 EER=14	GROUND MOUNTED OUTDOOR HEAT PUMP WALL UNIT

PROVIDE CO2 DEMAND VENTILATION CONTROLS FOR HP-1. INSTALL CO2 SENSOR ADJACENT TO THERMOSTAT OUTSIDE AIR LISTED IS WITH OA ECONOMIZER DAMPER IN MINIMUM POSITION. CONFERENCE ROOM WILL BE PROVIDED BY NATURAL VENTILATION. 4. ELECTRICAL FOR INDOOR UNIT WILL BE PROVIDED BY OUTDOOR UNIT HP-9.

						EXH	PAUS	ST FA	N SCHEDULE			
		COOLING		FAN			ELECT.					
SYMBOL	QTY.	DESCRIPTION	CFM	S.P. (WC)	RPM	VOLTAGE	ВНР	WATTS	MFGR & MODEL NO.	WEIGHT (LBS)	SONES	REMARKS
EF-1	2	CEILING CABINET FAN	90	0.25		115 V. 1 PHASE		24.3	PANASONIC WHISPERSENSE™ FV-11VQC5	12.6	0.4	UNIT HAS BUILT-IN BACKDRAFT DAMPER FAN SHALL HAS BUILT-IN HUMIDITY SENSOR FAN SHALL HAVE 6" DIA. DUCT CONNECTION
EF-2	1	IN-LINE EXHAUST FAN	240	0.2		115 V. 1 PHASE		55	PANASONIC WHISPERLINE™ FV-20-NLF1	24	1.7	UNIT HAS BUILT-IN BACKDRAFT DAMPER FAN SHALL BE ENERGIZED BY FAN IN FC-2 SUSPEND FAN FROM ROOF FRAMING

1. INSTALL/MOUNT EXHAUST FANS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

EF-1 SHALL BE ENERGIZED BY ROOM LIGHT SWITCH. 3. EF-2 SHALL OPERATE SIMULTANEOUSLY WITH SUPPLY FAN IN FC-2.

HYAC NOTES AND SCHEDULES

ENERGY ENGINEERING

ENERGY & MECHANICAL CONSULTANTS 547 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (530) 265-2273



 \Box ш SERVICE SCHOOL S. S. SUPPORTS VALLEY 10840 GILMORE WAY GRASS VALLEY, CA 9594

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Revisions: By: Description: Plot Date: 4/6/2016 16-041 Job#

as noted

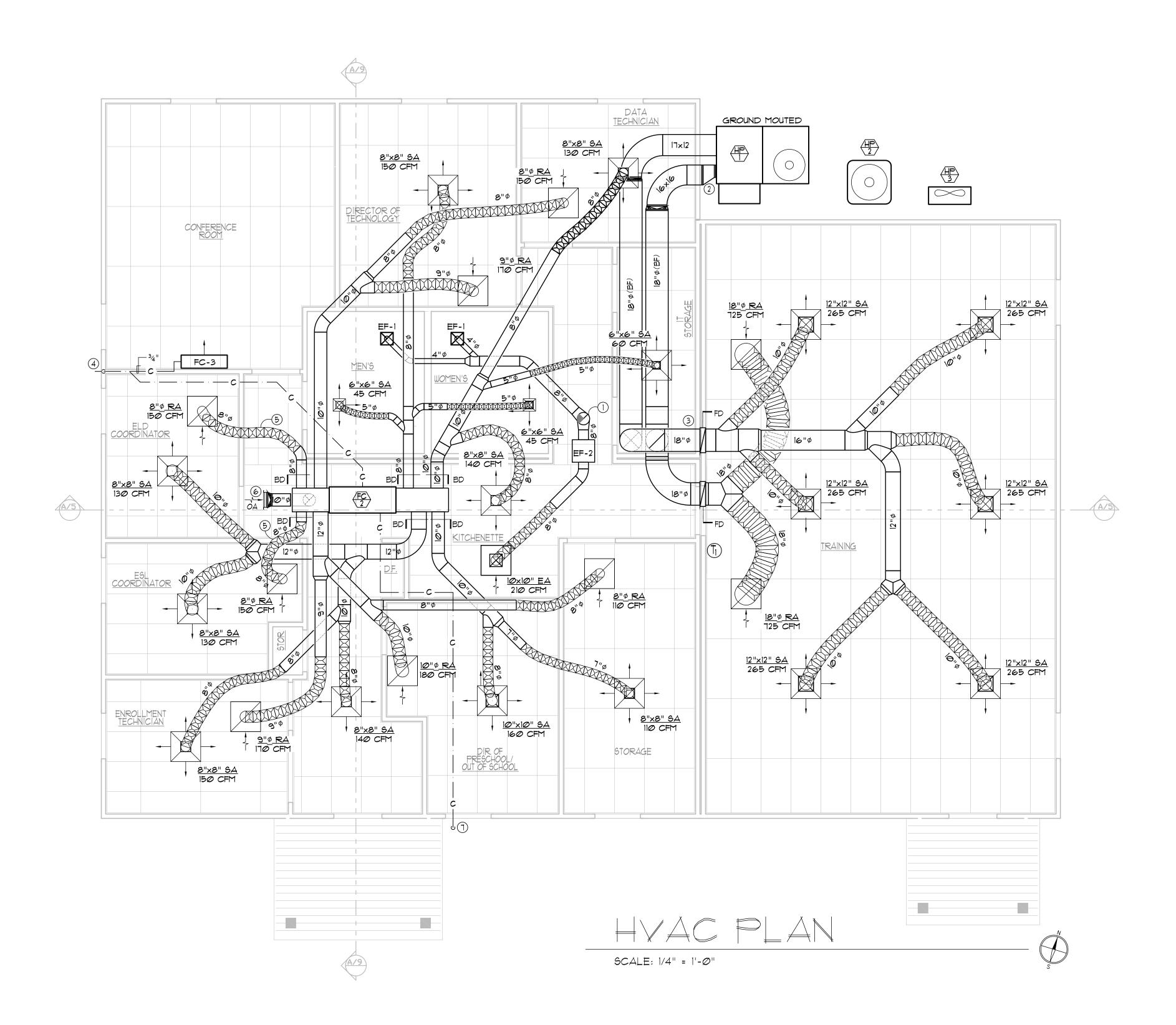
M0.1

Scale

Date 1st Issued

Sheet Number

SCALE: 1/4 = 1'-0"



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MELAS **ENERGY** ENGINEERING

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DISTRICT SUPPORT SERVICE BLDG.
for GRASS VALLEY SCHOOL DISTRICT
10840 GILMORE WAY
GRASS VALLEY, CA 95945 Revisions: No. Date: By: Description: Plot Date: 4/6/2016 16-041

as noted

M1.1

Job#

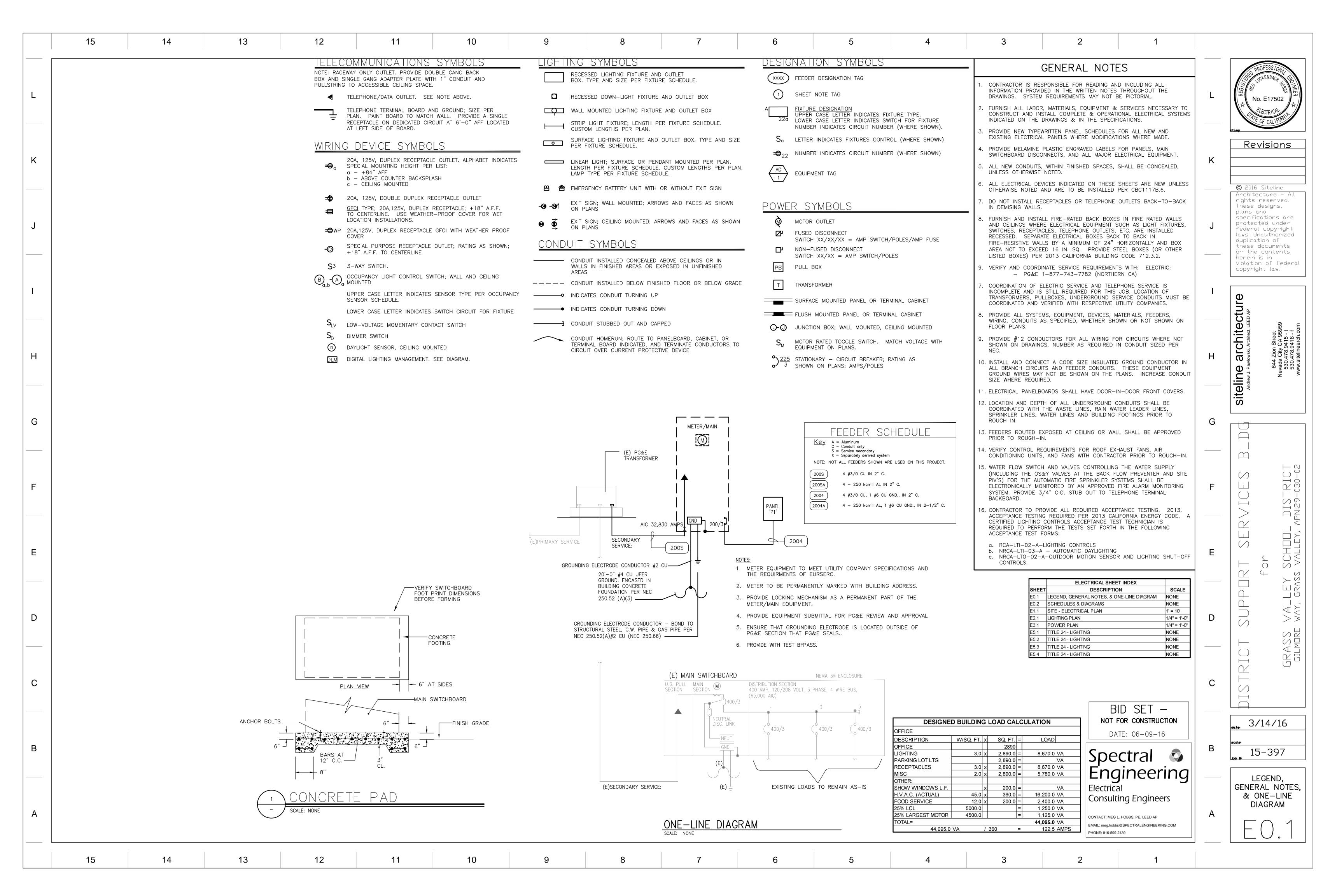
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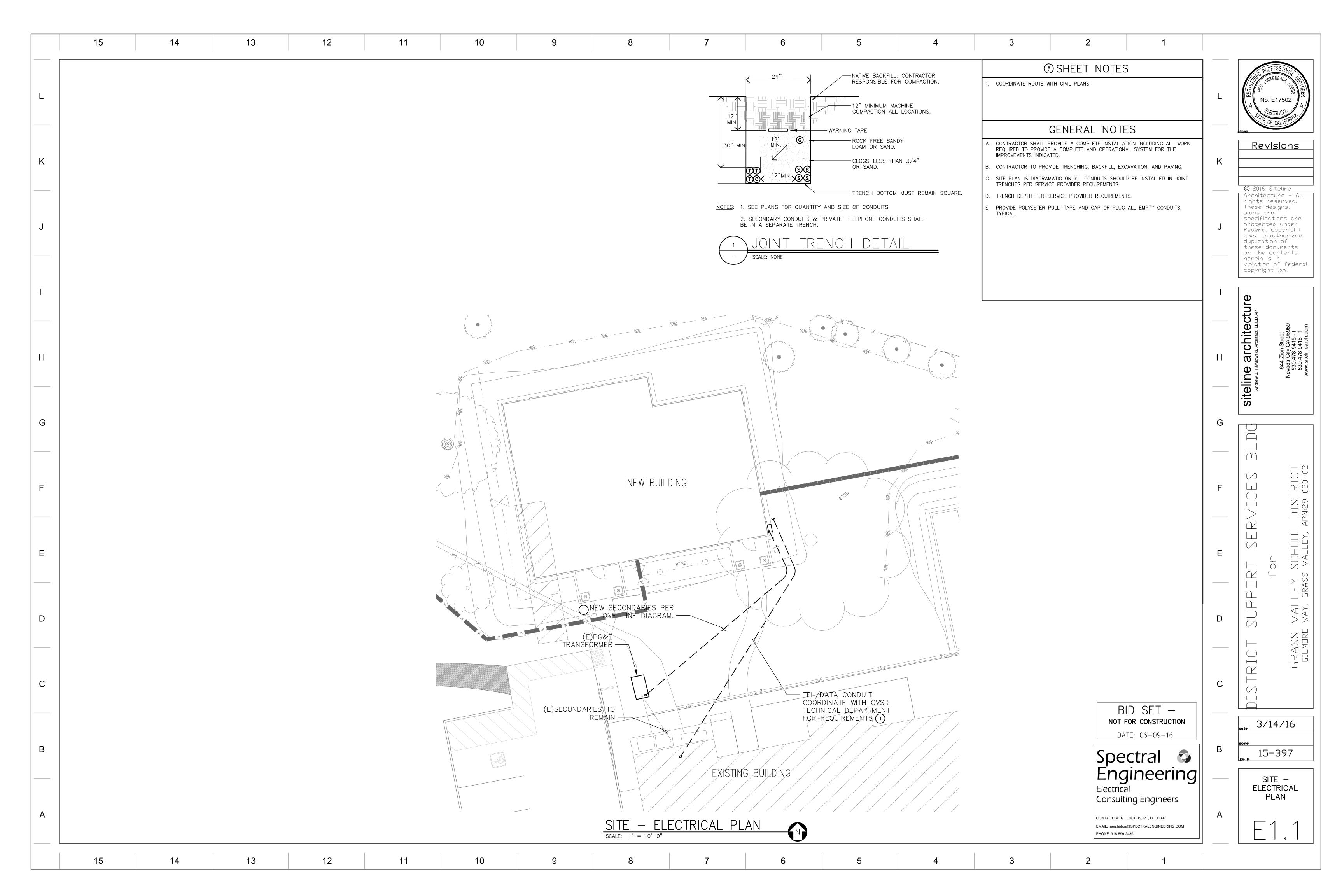
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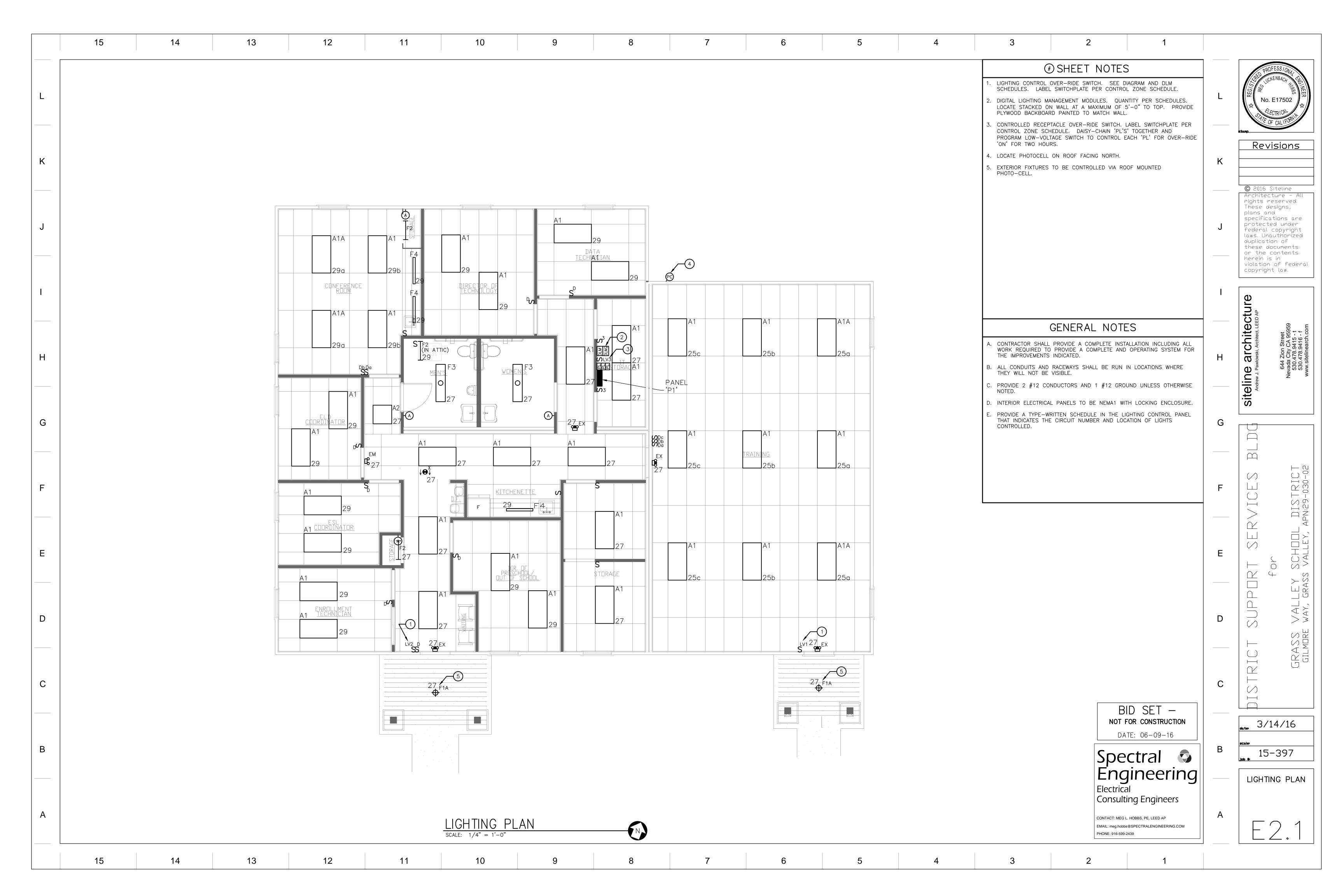
KEYED NOTES 10" Ø EXHAUST DUCT THROUGH ROOF TO ROOF

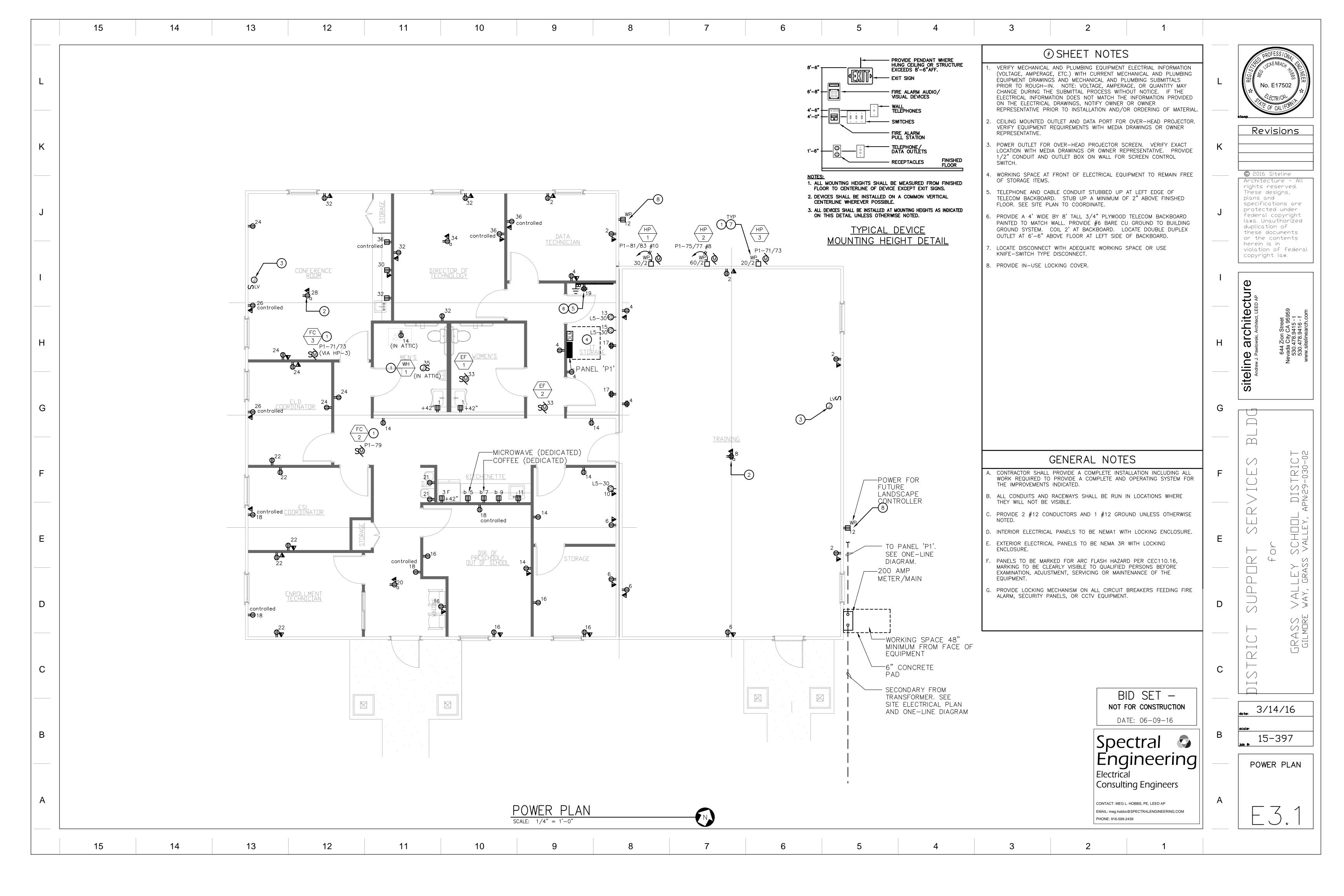
CAP
2. TRANSITION 10"x25" DUCT AT UNIT TO 16"x16"
3. 18" PA AND SA DUCT RISERS
4. TERMINATE PRIMARY CONDENSATE 6" MIN.
ABOVE GRADE WITH DOWNWARD ELBOW
5. PROVIDE A MINIMUM OF 10' OF FLEX DUCT
BETWEEN PLENUM AND GRILL
6. 14"x14" OA LOUVER AT GABLE END
7. TERMINATE SECONDARY CONDENSATE FLUSH
WITH SOFFIT, OVER WINDOW

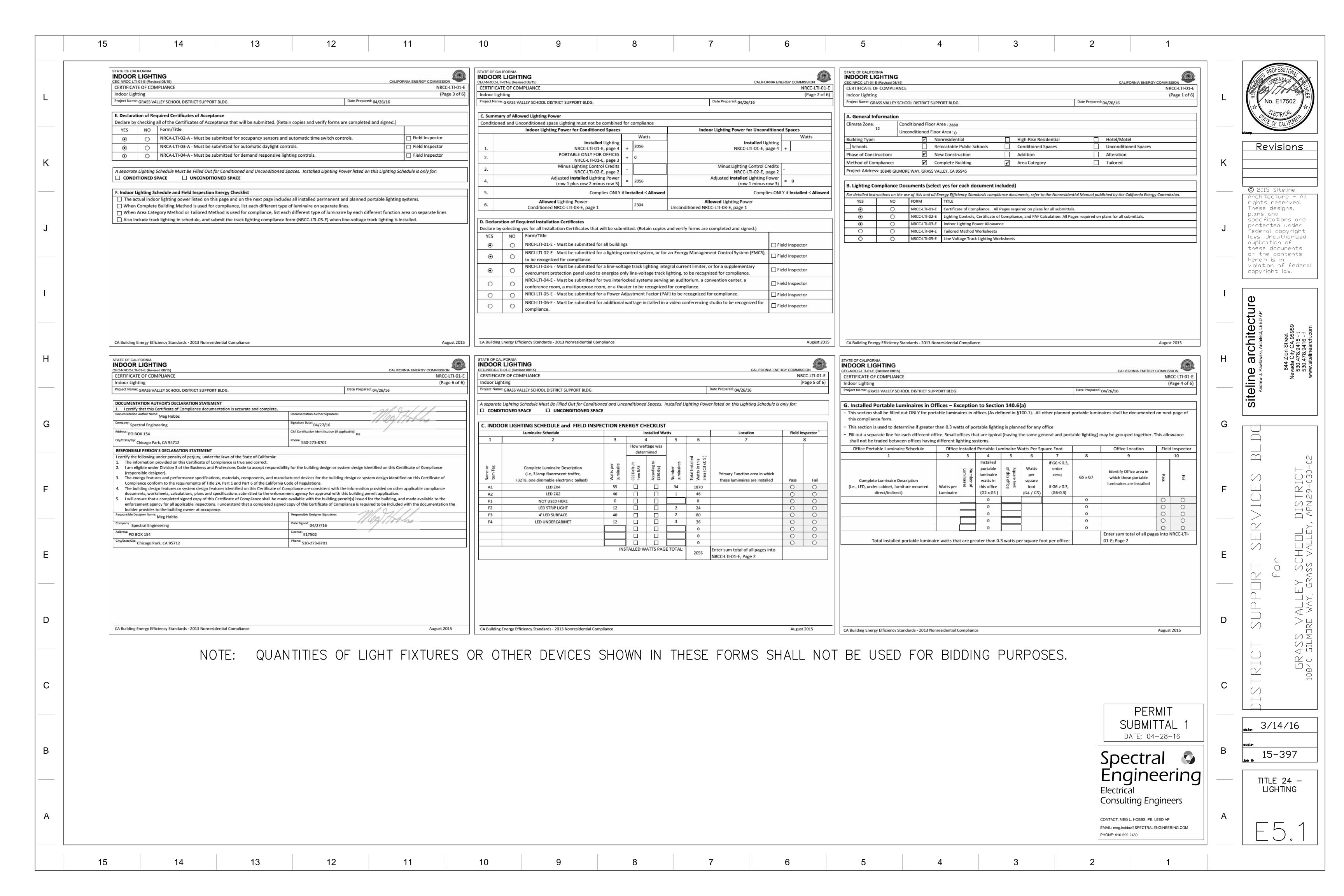


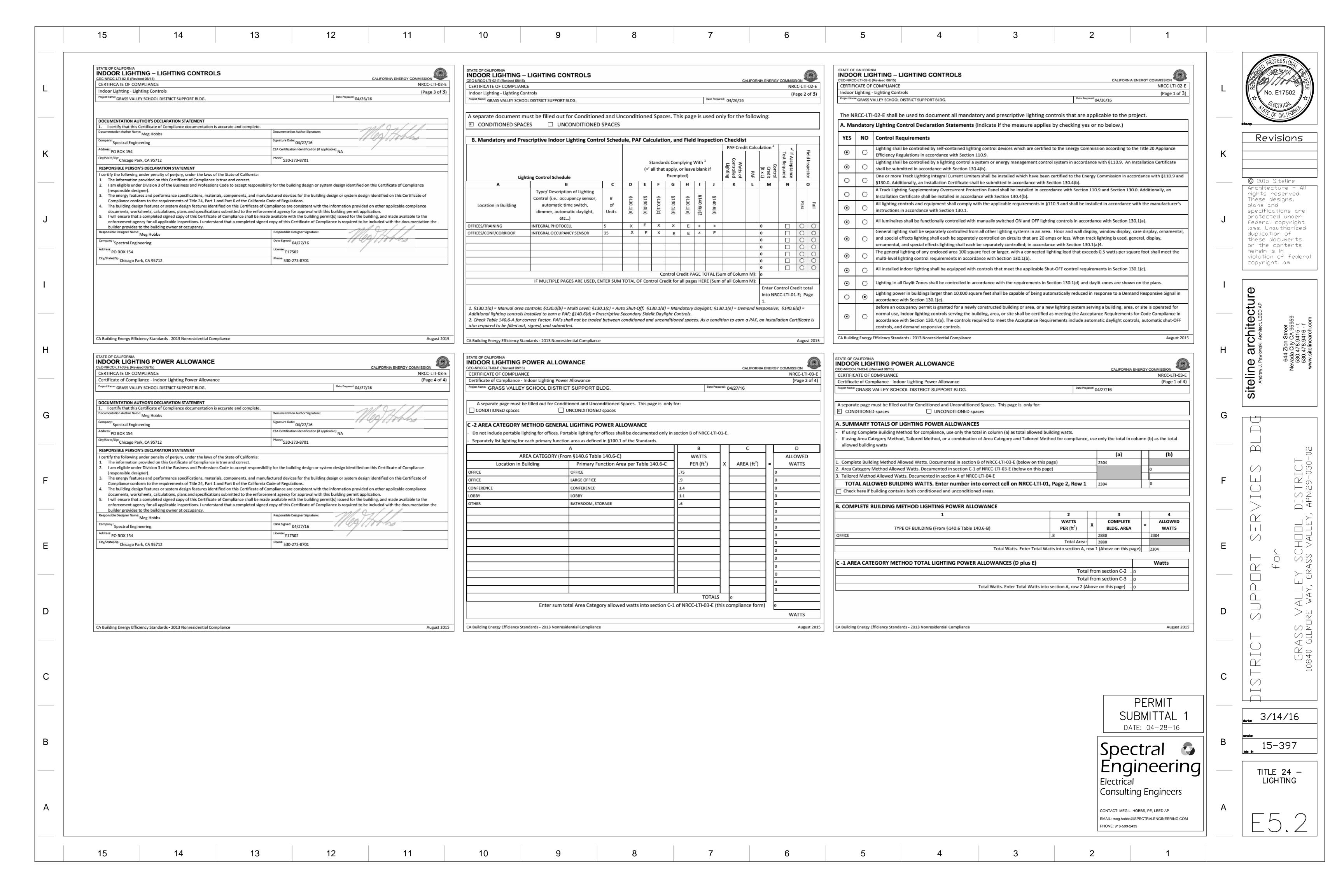
(N) PANEL 'P1' Main: MLO	 	Bus Rating (Amps): 200 Volts: 208/120V	*SEE NOTES BELOW FOR FURTHER				LIGHTING FIXTURE SCHEDULE			
Enclosure SURFACE AIC 35,000		Phase: 3 Wires: 4	INFORMATION AND PANEL OR CIRCUIT REQUIREMENTS.		TYPE DESC	CRIPTION MANUFACTURE		MP	TYPE MOUNTING NOTES] .
Ckt Description	世 Load Load <u>OC Device</u> 및 Type (KVA) Amps Po		胆 일 Description	Ckt		DIFFUSER, 0-10V DIMMING, SENSOR, 4900 LUMENS, 80 PHILIPS/DAY- BRITE	2DL-G-49L-835-4-D-UNV-DIM-OCC 3500k	K 1 55 0-	D-10V LED RECESSED CONFERENCE, OFFICES] L
1 RECEPT - MEN'S/WOMEN'S 3 RECEPT - REFRIGERATOR	- 2 0.36 20 2 - 2 0.90 20	A 20 1 0.90 2 B 20 1 1.08 2	- RECEPTACLES - TRAINING/DATA - RECEPTACLES - TRAINING/DATA	4	CRI. SAME AS 'A1' EXCEPT WI				DAYLIT AREAS	
5 RECEPTACLE - MICROWAVE 7 RECEPTACLE - COFFEE	- 2 1.20 20 7 - 2 1.50 20 7	C 20 1 0.72 2 A 20 1 1.20 2	- RECEPTACLES - TRAINING - PROJECTOR - TRAINING	6 8	A2 LED 2'X2' LAY-IN, OPAL D OCCUPANCY SENSOR, 39		2DL-G-44L-835-2-D-UNV-OCC 3500ł	K 1 46 LEI	SMALL SPACES ED DRIVER RECESSED	
9 RECEPTACLE - KITCHENETTE 11 RECEPTACLE - DISPOSAL	- 2 0.18 20 7 - 2 1.00 20 7	B 30 1 0.18 2 C 20 1 0.18 2	- RECEPT - DEDICATED - STORAGE - RECEPT - EXTERIOR	10 12	SURFACE MOUNTED LED			1 40 LEI	CANOPY	-
13 RECEPTACLE - IT (DEDICATED) 15 RECEPTACLE - IT (DEDICATED) 17 RECEPTACLES - IT STORAGE	- 2 1.00 30 - 2 1.00 30 - 2 0.72 20	A 20 1 1.08 2 B 20 1 0.90 2 C 20 1 0.72 2	- RECEPTACLES - OFFICE, ATTIC - RECEPTACLES - OFFICE/LOBBY 2 RECEPT - OFFICES (CONTROLLED)	16	INTEGRAL OCCUPANCY S		SVPG-168L-600-WW-SM-5-120-IMRI-MGY 3000F	K 1 27 LEI	ED DRIVER SURACE	K
19 RECEPTACLE - TELCOM BOARD 21 RECEPTACLE - DRINKING FOUNT	- 2 0.36 20	A 20 1 1.00 2 B 20 1 0.72 2	- PROJECTOR - LOBBY - RECEPTACLES - OFFICE	20	F1A SAME AS 'F1' EXCEPT WI	/ITH 90-MINUTE EMERGENCY _	SVPG-168L-600-WW-SM-5-EBP-120-IMRI-MGY -		EMERGENCY EGRESS, EXTERIOR LANDINGS	
23 SPARE 25 LIGHTING - TRAINING/OFFICES	0.00 20 1 1 1 0.50 20	C 20 1 0.90 2 A 20 1 0.72 2	- RECEPTACLES - OFFICE 2 RECEPT - OFFICES (CONTROLLED)	24 26	F2 LED STRIP LIGHT 4' SURFACE MOUNTED LIG	IGHT, LED, 3900 LUMENS, 85 DAY-BRITE	75-2-LEDPH15-835-120 3500i LF4-FR39-35U-LAG 3500i		ED DRIVER RECESSED STORAGE ED DRIVER SURFACE BATHROOMS	
27 LIGHTING - CORRIDOR/EM LTG 29 LIGHTING - CONF.RM./OFFICES	- 1 0.78 20 1 1 1 1.10 20	B 20 1 0.36 2 C 20 1 0.18 2	- PROJECTOR - CONF. RM RECEPTACLE - CONF. RM.	28 30	CRI LED UNDER-CABINET LIG		EL/LED/34 WITH EL2HWB AND CONNECTING 3000		ED DRIVER SURFACE KITCHENETTES	-
31 SPARE 33 EXHAUST FAN(S) 1 & 2	0.00 20 3 3 3 0.20 20	A 20 1 0.90 2 B 20 1 1.00 2	- RECEPTACLE - OFFICES - PROJECTOR - DIR OF TECH	32 34	EXIT SIGN, GREEN LETTE		CABLE		- PER PLANS EGRESS PATHWAYS	1 .
35 WATER HEATER WH-1 37 SPARE	- 7 1.65 20 7 0.00 20 7	C 20 1 0.36 2 A PFB - 0.00 -	2 RECEPT - OFFICE/CONF (CONTROLLED) - SPACE	ED) 36 38	X EMERGENCY EGRESS LIC	OR EQUAL	PRESTIGE SERIES TA-PE-FACE PER PLANS-GM LED		- PER PLANS EGRESS PATHWAYS - PER PLANS] J
39 SPARE 41 SPARE	0.00 20 7 0.00 20 7	B PFB - 0.00 - C PFB - 0.00 -	- SPACE - SPACE	40 42	EX EMERGENCY LIGHT/EXIT	OR EQUAL SIGN COMBO EMERGI-LITE	PREMIER SERIES COMBO, WHITE LED		- PER PLANS - PER PLANS EGRESS PATHWAYS	_
43 SPARE 45 SPARE	0.00 20 2 0.00 20 2	B PFB - 0.00 -	- SPACE - SPACE	44 46	EA	OR EQUAL	PREIVITER SERIES COIVIBO, WHITE	, - -	- FERFLANS	
47 SPARE 49 SPACE 51 SPACE	0.00 20 7 0.00 PFB -	C PFB - 0.00 - A PFB - 0.00 -	- SPACE - SPACE	50 52	NOTES: A. ALL LED FIXTURES TO BE PRO	OVIDED WITH NO LESS THAN A 5-YEAR WARRANTY				
51 SPACE 53 SPACE 55 SPACE	0.00 PFB - 0.00 PF	B PFB - 0.00 - C PFB - 0.00 - A PFB - 0.00 -	- SPACE - SPACE - SPACE	54 56	B. LAMPS TO HAVE 83+ CRI UNI					1
55 SPACE 57 SPACE 59 SPACE	0.00 PFB 0.00 PFB 0.00 PFB	B PFB - 0.00 - C PFB - 0.00 -	- SPACE - SPACE - SPACE	58 60			NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS D DRMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLE		GHLIGHTED. SUBMITTALS	
61 SPACE 63 SPACE	0.00 PFB - 0.00 PFB -	A PFB - 0.00 - B PFB - 0.00 -	- SPACE - SPACE	62 64	D. NOT INCLUDING THIS INFORM	MATION WILL BE RETURNED AS REJECTED BY THE EN	•			
65 SPACE 67 SPACE	0.00 PFB - 0.00 PFB -	C PFB - 0.00 - A PFB - 0.00 -	- SPACE - SPACE	66 68	L. FROVIDE CONTINISSIONING O	5. THE EIGHTING AND LIGHTING CONTROLS IN ACCO	S. S. WEL WITH CALL ORIGIN THEE 24 FIGHTING COMMISSIONING	Z NEQUINLIVIENTO.		
69 SPACE 71 HP-3/FC-3	0.00 PFB - 3 3 1.90 20 2	B PFB - 0.00 - C PFB - 0.00 -	- SPACE - SPACE	70 72 74	_	.	LIGHTING CONTROLS AND DIGITAL LIGHTING MANA	AGEMENT DEVICE	SCHEDULE	
73 " 75 HP-2 77 "		A PFB - 0.00 - B PFB - 0.00 - C PFB - 0.00 -	- SPACE - SPACE	76		TYPE MODEL MANUFACTU		MOUNTING LOC		H
77 " 79 FC-2 81 HP-1	3 4 3.64 - 3 3 0.65 15 3 3 2.71 30 2	C PFB - 0.00 - A PFB - 0.00 - B PFB - 0.00 -	- SPACE - SPACE - SPACE	80	-	A LMPW-100 Wattstoppe LV LMSW-101 Wattstopper - Di	GITAL 1- LOW VOLTAGE DIM	WALL ZOI	M. SPACES Manual-ON, Time delay - 30 minutes ONES PER OVER-RIDE SWITCH	-
81 HP-1 83 "	3 3 2.71 30 2 3 3 2.71 - 6.27 9.91 13.	C PFB - 0.00 -	- SPACE - SPACE	84	-	SWITCH Wattstopper - Di	GITAL	SCI	CHEDULE Program 'ON' 1 hours before opening, 'OFF' 1	1
LOAD PER F	А В О	C A B C				DLM LMRC-212 LIGHTING MANAGEME		Ι \Λ/ΔΙΙ Ι	SPACES hours after closing.	_
LOAD TYPE (NUMBER) LOAD TYPE (DESCRIPTION)	0 1 2 3 P.Rm.Li Lighting Receps Mot	3 4 5 6 7 ors L. Mot. Kitch Elevator Equip Total				D LMDM-101 Wattstopper - DII	MMER - LOW VOLTAGE DLM	WALL	- SEE DIAGRAM	G
TOTAL CONNECTED LOAD (KVA)						1		1		_ G
DEMAND MULTIPLIER:	1.00 1.25 formula* 1.0		_			PL LMPL-201 Wattstopper - F LOAD CONTRO	I - I IOW/VOITAGE I -	WALL	- ONE UNIT PER CIRCUIT	
	1.00 1.25 formula* 1.0 0.00 2.98 15.91 10. 0.0 8.3 44.2 28	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3	KVA AMPS			A. Sensor may be the same produc	LLER LOW VOLTAGE - t with different settings for each space. See SETTINGS colur	nn for specifics.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD	1.00 1.25 formula* 1.0 0.00 2.98 15.91 10 0.0 8.3 44.2 28 formula* Type 2 (rec	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Co	KVA AMPS			A. Sensor may be the same produc	LLER - LOW VOLTAGE -	nn for specifics.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (N	1.00 1.25 formula* 1.00 0.00 2.98 15.91 10.00 0.0 8.3 44.2 28 formula* Type 2 (recomplete the second of the second	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1	KVA AMPS onnected Load is greater than 10KVA,		OFFICES	A. Sensor may be the same produc	LLER - LOW VOLTAGE - It with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING V	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM	1.00 1.25 formula* 1.00 0.00 2.98 15.91 10.00 0.0 8.3 44.2 28 formula* Type 2 (recomplete the second of the second	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1	KVA AMPS onnected Load is greater than 10KVA,		Red OFFICES LIGHTING Vio Gry	A. Sensor may be the same produc	t with different settings for each space. See SETTINGS colur COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T	nn for specifics.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (N	1.00 1.25 formula* 1.00 0.00 2.98 15.91 10.00 0.0 8.3 44.2 28 formula* Type 2 (recomplete the second of the second	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1	KVA AMPS onnected Load is greater than 10KVA,		LIGHTING Vio T	A. Sensor may be the same produc	LLER - LOW VOLTAGE - It with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING V	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (N	1.00 1.25 formula* 1.00 0.00 2.98 15.91 10.00 0.0 8.3 44.2 28 formula* Type 2 (recomplete the second of the second	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1	KVA AMPS onnected Load is greater than 10KVA,		CONF.RM. LIGHTING Vio Gry Yel LIGHTING Vio Gry Gry IIIIIIIIIIIIIIIIIIIIIIIIIIIII	A. Sensor may be the same produc	t with different settings for each space. See SETTINGS colur COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b)	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V. 3 SEE MECHANICAL PLANS FOR C.	1.00 1.25 formula* 1.0 0.00 2.98 15.91 10. 0.0 8.3 44.2 28 formula* Type 2 (rec. Then the de I (SEE DEVICE SCHEDULE FOR WATTS WATTSTOPPER LMPL-201) CONTROL WIRING REQUIREMENTS	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1	KVA AMPS onnected Load is greater than 10KVA,		Red LIGHTING Vio T	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH,	t with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (b) TRAINING LIGHTING (c)	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V. 3 SEE MECHANICAL PLANS FOR C DIGITAL LIGHTING MANAGEME DLM1 RELAY# ZONE CIRCUIT DESCRIPT	1.00 1.25 formula* 1.0 0.00 2.98 15.91 10. 0.0 8.3 44.2 28 formula* Type 2 (rec. Then the de I (SEE DEVICE SCHEDULE FOR WATTS WATTSTOPPER LMPL-201) ONTROL WIRING REQUIREMENTS NT NEMA RATING TION CCC	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) B 1 NTROL	KVA AMPS connected Load is greater than 10KVA, 0, Else Demand Load equals Connected Load.	Neutral Wht LMRC-213 Triple Relay	CONF.RM. LIGHTING Vio Gry Yel LIGHTING Vio Gry Gry IIIIIIIIIIIIIIIIIIIIIIIIIIIII	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht	t with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (b) TRAINING LIGHTING (c)	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V. 3 SEE MECHANICAL PLANS FOR C DIGITAL LIGHTING MANAGEME DLM1 RELAY# ZONE CIRCUIT DESCRIPTION 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213 TOPPER LMRC-213	KVA AMPS connected Load is greater than 10KVA, 0, Else Demand Load equals Connected Load. NOTES C OFF 7PM C OFF 7PM	Neutral Wht Unswitched Hot Blk Neutral Wht Unswitched Hot Blk	Yel CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Gry	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH,	t with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING UGHTING (a) Yel TRAINING UGHTING (b) TRAINING UGHTING (b) TRAINING UGHTING (c)	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V.) 3 SEE MECHANICAL PLANS FOR C DLM1 RELAY# ZONE CIRCUIT DESCRIPT 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) The NTROL SOVERRIDE ON, DIM TO ON 6AM/TO	KVA AMPS connected Load is greater than 10KVA, 0, Else Demand Load equals Connected Load. NOTES C OFF 7PM C OFF 7PM	LMRC-213 Triple Relay On/Off/0-10V Dimming	Yel CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Gry	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik	t with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (b) TRAINING LIGHTING (c)	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (NOTED) 3 SEE MECHANICAL PLANS FOR COMBINED DLM1 RELAY# ZONE CIRCUIT DESCRIPTION DES	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TO NTROL SOVERRIDE ON, DIM SOVERRIDE ON, DIM TO ON 6AWTO	KVA AMPS connected Load is greater than 10KVA, 0, Else Demand Load equals Connected Load. NOTES C OFF 7PM C OFF 7PM	Neutral Wht Unswitched Hot Blk 120/277 Grn LMRC-213 Triple Relay On/Off/0-10V Dimming Room Controller	Yel CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Gry	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik	t with different settings for each space. See SETTINGS colur /COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (b) TRAINING LIGHTING (c)	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	F E
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (No. 1) 3 SEE MECHANICAL PLANS FOR C DLM1 RELAY# ZONE CIRCUIT DESCRIPT 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI ABBREVIATIONS: TC TIMECLOCK PC PHOTOCELL CONTROL ZONE - OVER-RIDE SWITCHES (LARGE PROTOCE)	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TO NTROL SOVERRIDE ON, DIM SOVERRIDE ON, DIM TO ON 6AWTO	KVA AMPS connected Load is greater than 10KVA, 0, Else Demand Load equals Connected Load. NOTES C OFF 7PM C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	Yel CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Vio Gry O-10VDC Dimming Ballast required.	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Grn	t with different settings for each space. See SETTINGS colur //COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (c) LMRC-213 Triple Relay Hif/O-10V Dimming Rallast required.	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	F E
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (I 3 SEE MECHANICAL PLANS FOR C DLM1 RELAY# ZONE CIRCUIT DESCRIPT 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI 3 TOTAL LIGHTING - TRAINI CONTROL ZONE - OVER-RIDE SWITCHES (LAZONE 1: LV1 TRAINING (a,b,c)	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TO NTROL SOVERRIDE ON, DIM SOVERRIDE ON, DIM TO ON 6AWTO	KVA AMPS connected Load is greater than 10KVA, 0, Else Demand Load equals Connected Load. NOTES C OFF 7PM C OFF 7PM	Neutral Wht Unswitched Hot Blk 120/277 Grn LMRC-213 Triple Relay On/Off/0-10V Dimming Room Controller	Yel CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Gry	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colur //COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (c) LMRC-213 Triple Relay Hif/O-10V Dimming Rallast required.	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	F E
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V. 3 SEE MECHANICAL PLANS FOR C DIM1 RELAY# ZONE CIRCUIT DESCRIPTION 1 1 P1-25 LIGHTING TRAINI 2 1 P1-25 LIGHTING TRAINI 3 1 P1-25 LIGHTING TRAINI 3 1 P1-25 LIGHTING TRAINI ABBREVIATIONS: TC TIMECLOCK PC PHOTOCELL CONTROL ZONE - OVER-RIDE SWITCHES (LAZONE 1: LV1 TRAINING (a,b,c)	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SESWITCH STATION SENSOR	NOTES C OFF 7PM C OFF 7PM C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	Yel CONF.RM. LIGHTING Vio Gry CONF.RM. LIGHTING Vio Gry O-10VDC Dimming Ballast required.	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colurn/COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR TO TRAINING LIGHTING (a) TRAINING LIGHTING (b) TRAINING LIGHTING (c) TRAINING LIGHTING (c) TRAINING LIGHTING (c) O-10VDC Dimming Ballast required. Class 2 0-10 Volt Control Wiring	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	F E
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1	1.00	200 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Command load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213 TOPPER LMRC-213 TOPPER LMRC-213 SOVERRIDE ON, DIM TC ON 6AWTO SESSISSOR	NOTES NOTES NOTES NOTES NOTES NOTES	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	Tel CONF.RM. LIGHTING Vio Gry O-10VDC Dimming Ballast required. Class 2 0-10 Volt Control Wiring	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colur //COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) Yel TRAINING LIGHTING (b) TRAINING LIGHTING (c) LMRC-213 Triple Relay Hif/O-10V Dimming Rallast required.	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	F E D
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V. 3 SEE MECHANICAL PLANS FOR C DLM1 RELAY# ZONE CIRCUIT DESCRIPT 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI CONTROL ZONE - OVER-RIDE SWITCHES (LAZONE 1: LV1 TRAINING (a,b,c) DIGITAL LIGHTING MANAGEME DLM2 RELAY# ZONE CIRCUIT DESCRIPT	1.00	00 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SESWITCH STATION SENSOR TO ON 6AM/TO SENSOR TO ON 6AM/TO SENSOR TO ON 6AM/TO SENSOR TO ON 6AM/TO	NOTES C OFF 7PM NOTES C OFF 7PM NOTES C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	CONF.RM. LIGHTING Vio Gry O-10VDC Dimming Ballast required. Class 2 0-10 Volt Control Wiring LMRJ Series Pre-Terminated Cables or CAT5e. Free Topology & Splitter Acceptable	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colurn/COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR TO TRAINING LIGHTING (a) TRAINING LIGHTING (b) TRAINING LIGHTING (c) TRAINING LIGHTING (c) TRAINING LIGHTING (c) O-10VDC Dimming Ballast required. Class 2 0-10 Volt Control Wiring	mn for specifics. TO ORDERING.	- ONE UNIT PER CIRCUIT	F E D
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DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (I) 3 SEE MECHANICAL PLANS FOR C DLM1 RELAY# ZONE CIRCUIT DESCRIP 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI CONTROL ZONE - OVER-RIDE SWITCHES (LAZONE 1: LV1 TRAINING (a,b,c) DIGITAL LIGHTING MANAGEME DLM2 RELAY# ZONE CIRCUIT DESCRIP 1 2 P1-29 LIGHTING - CONF. 2 2 P1-29 LIGHTING - CONF. 3 2 P1-29 LIGHTING - OFFICE ABBREVIATIONS: TC TIMECLOCK	1.00	20 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SENSOR TO ON 6AM/TO SE OVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SENSOR TO ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SE SWITCH STATION	NOTES C OFF 7PM NOTES C OFF 7PM NOTES C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	CONF.RM. LIGHTING Yel CONF.RM. LIGHTING CONF.RM. LIGHTING Control Wiring LMRJ Series Pre—Terminated Cables or CAT5e. Free Topology & Splitter Acceptable LMDM—101 Digital Dimming Wall Switches with LMSW—101 Digital 1—Button Scene Switch	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colury COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red	fic Gry		F
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1 VIA LIGHTING CONTROL SYSTEM 2 VIA PLUG LOAD CONTROLLER (V 3 SEE MECHANICAL PLANS FOR C DLM1 RELAY# ZONE CIRCUIT DESCRIPT 1 1 P1-25 LIGHTING - TRAINI 2 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI 3 1 P1-25 LIGHTING - TRAINI ABBREVIATIONS: TC TIMECLOCK PC PHOTOCELL CONTROL ZONE - OVER-RIDE SWITCHES (LAZONE 1: LV1 TRAINING (a,b,c) DIGITAL LIGHTING MANAGEME DLM2 RELAY# ZONE CIRCUIT DESCRIPT 1 2 P1-29 LIGHTING - CONF. 2 2 P1-29 LIGHTING - OFFICE ABBREVIATIONS: TC TIMECLOCK PC PHOTOCELL CONTROL ZONE - TIMECLOCK TO TO THE TOTAL THE TOTA	1.00	20 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SENSOR TO ON 6AM/TO SE OVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SENSOR TO ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SE SWITCH STATION	NOTES C OFF 7PM NOTES C OFF 7PM NOTES C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	Class 2 0–10 Volt Control Wiring LIGHTING Vio Gry O-10VDC Dimming Ballast required. Class 2 0–10 Volt Control Wiring LMRJ Series Pre—Terminated Cables or CAT5e. Free Topology & Splitter Acceptable LMDM—101 Digital Dimming Wall Switches with LMSW—101 Digital 1—Button Scene Switch CONF. RM. CONF. RM. LV2	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colury COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) TRAINING LIGHTING (b) LIMRC-213 Triple Relay Hit/O-10V Dimming Room Confroller Class 2 0–10 Volt Control Wiring LMRJ Series Pre–Terminated Cables or CAT5e. Free Topology & Splitter Acceptable LMDM-101 Digital Dimming W with LMSW-101 Digital 1-Button	fig. Gry ———————————————————————————————————	BID SET — NOT FOR CONSTRUCTION	F
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1	1.00	20 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Comand load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SENSOR TO ON 6AM/TO SE OVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SENSOR TO ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SOVERRIDE ON, DIM TC ON 6AM/TO SE SWITCH STATION SE SWITCH STATION	NOTES C OFF 7PM NOTES C OFF 7PM NOTES C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground	CONF.RM. LIGHTING Yel CONF.RM. LIGHTING CONF.RM. LIGHTING Control Wiring LMRJ Series Pre—Terminated Cables or CAT5e. Free Topology & Splitter Acceptable LMDM—101 Digital Dimming Wall Switches with LMSW—101 Digital 1—Button Scene Switch	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colury COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red	fig. Gry ———————————————————————————————————	BID SET -	F
DEMAND MULTIPLIER: TOTAL DESIGN LOAD TOTAL AMPS NOTES: 1	1.00	20 1.25 0.65 1.00 1.00 07 9.10 0.00 0.00 1.65 39.71 0.0 25.3 0.0 0.0 4.6 110.3 eptacles) formula is as follows: If the Total Command load is ((Connected Load - 10) * .5) +1 STOPPER LMRC-213) STOPPER LMRC-213) STOPPER LMRC-213 TO ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/TO SESWITCH STATION SENSOR TO ON 6AM/TO SOVERRIDE ON, DIM TC ON 6AM/T	NOTES C OFF 7PM NOTES C OFF 7PM NOTES C OFF 7PM	Neutral Wht Unswitched Hot Bik 120/277 Grn Earth Ground Neutral Wht Unswitched Room Controller Room Controller	Class 2 0–10 Volt Control Wiring LIGHTING Class 2 0–10 Volt Control Wiring LMRJ Series Pre—Terminated Cables or CAT5e. Free Topology & Splitter Acceptable LMDM—101 Digital Dimming Wall Switches with LMSW—101 Digital 1—Button Scene Switch LV2 LV2 LV3 LV45	A. Sensor may be the same product B. CONTRACTOR TO VERIFY FINISH, Neutral Wht Unswitched Hot Bik 120/277 Earth Ground	t with different settings for each space. See SETTINGS colury COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR T Red TRAINING LIGHTING (a) TRAINING LIGHTING (b) LIMRC-213 Triple Relay Hit/O-10V Dimming Room Confroller Class 2 0–10 Volt Control Wiring LMRJ Series Pre–Terminated Cables or CAT5e. Free Topology & Splitter Acceptable LMDM-101 Digital Dimming W with LMSW-101 Digital 1-Button	fig. Gry ———————————————————————————————————	BID SET — NOT FOR CONSTRUCTION DATE: 06-09-16	F
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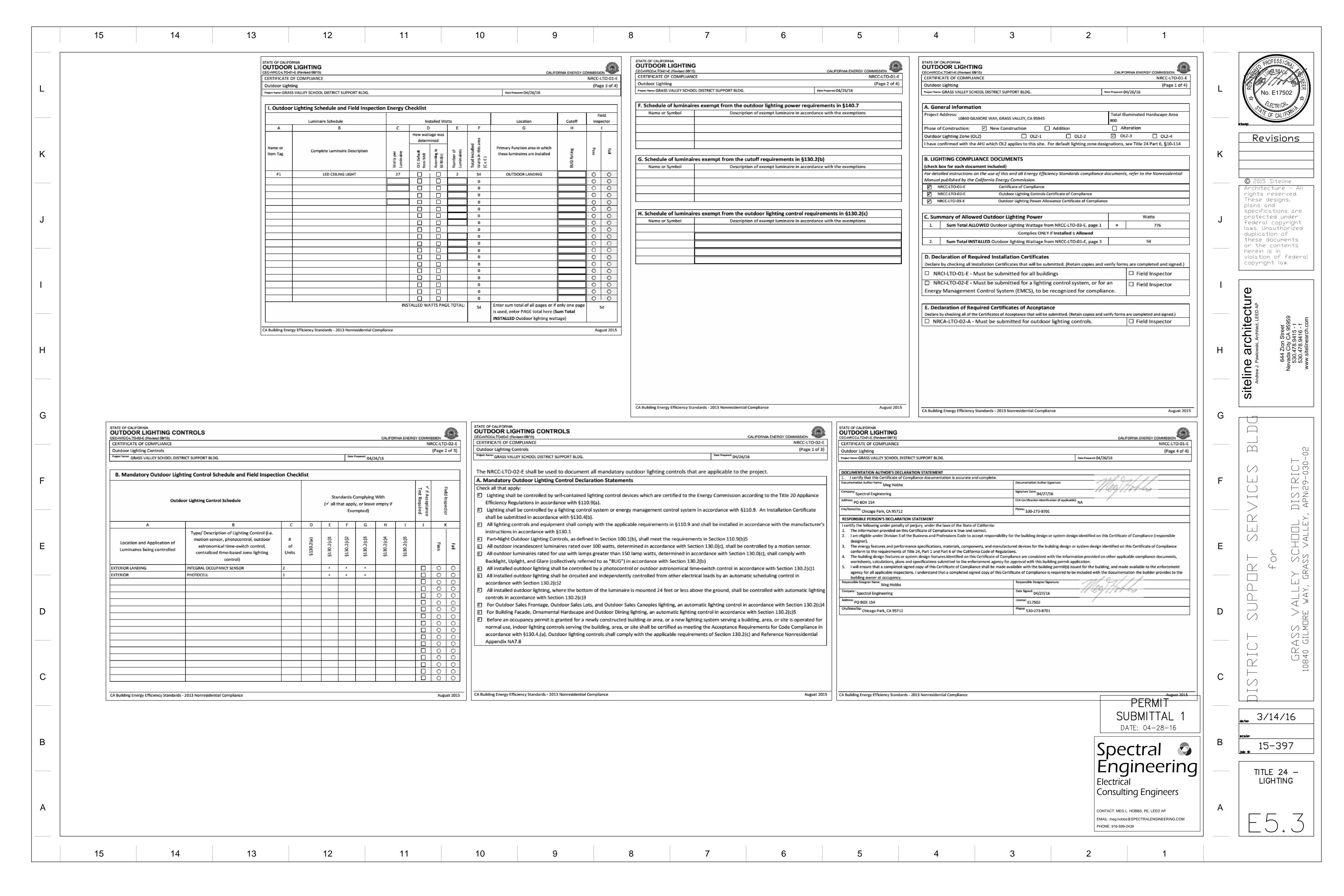


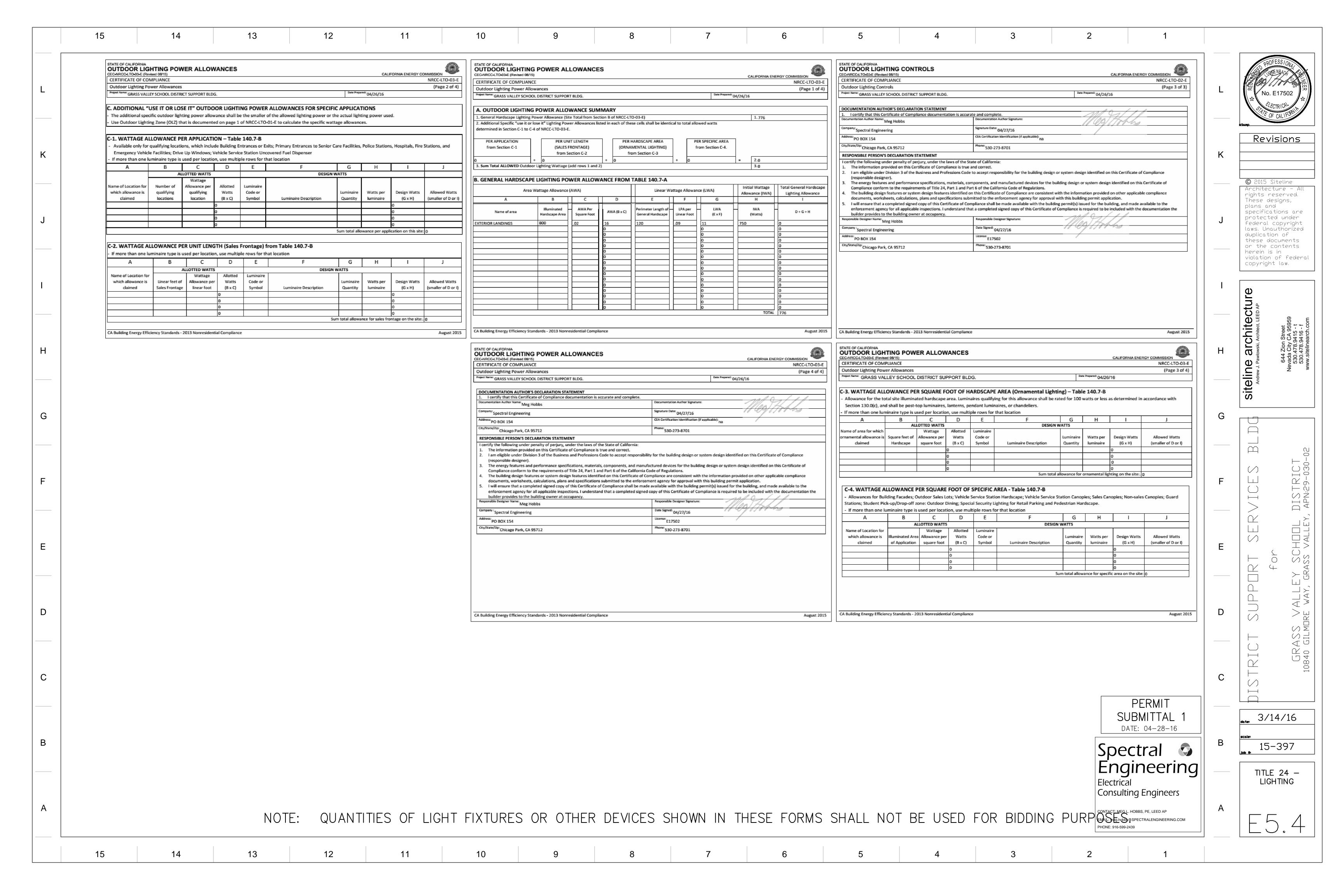












PIPE MATERIAL SCHEDULE

- SANITARY WASTE & VENTING MATERIALS
- (A) DRAINAGE WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS DWY OR OTHER APPROVED MATERIAL HAVING A SMOOTH AND UNIFORM BORE, FITTINGS
- SHALL BE MADE OF SIMILAR MATERIAL. EXCEPTION: NO HUB CAST IRON SHALL BE USED WHERE SLOPE OF WASTE LINE IS LESS THAN 1/4 IN PER FOOT, OR WHERE WASTE PIPING IS ROUTED BETWEEN FLOOR OR RISERS IN WALLS.
- (B) VENT PIPING SHALL EXTEND 12 INCHES ABOVE THE ROOF (MIN.) AND SHALL BE FLASHED WITH 4-POUND LEAD. THE LEAD FLASHING SHALL BE TURNED DOWN ON THE INSIDE OF THE VENT IN A NEAT MANNER. MINIMUM VENT SIZE AT VENT EXTENSION THROUGH ROOF SHALL BE 3" (MIN.) TO PREVENT FROST/SNOW CLOSURE. THE CHANGE IN DIAMETER SHALL BE MADE INSIDE THE BUILDING AT LEAST ONE (1) FOOT BELOW THE ROOF, OR AS REQUIRED BY THE ADMINISTRATIVE AUTHORITY. VENTS SHALL BE PLACED ADJACENT TO UPPER RIDGE OF ROOF AND SHALL BE PROTECTED BY "MURPHY SPLITTER" OR METAL FORMED CRICKET APPROVED BY ADMINISTRATIVE AUTHORITY.

CONDENSATE DRAINAGE

(A) SCHEDULE 40 PVC DWY PIPE MEETING THE REQUIREMENTS OF ATM D 1785 OR OTHER APPROVED MATERIAL HAVING A SMOOTH AND UNIFORM BORE. FITTINGS SHALL BE IN COMPLIANCE ASTMD 2464.

POTABLE WATER PIPING

- (A) SCHEDULE 40 PVC PIPE MEETING THE REQUIREMENTS OF ATM D 1785 MAY BE USED FOR COLD WATER DISTRIBUTION OUTSIDE THE BUILDING. FITTINGS SHALL BE IN COMPLIANCE ASTMD 2464.
- (B) WATER AND PIPE FITTINGS IN GARAGE SHALL BE MADE OF TYPE K COPPER AND JOINED WITH VIEGA® PRESS FITTINGS.
- (C) ALL PIPING MAY BE 2" AND SMALLER SHALL BE NON-BARRIER PEX TUBING BY UPONOR®, VIEGA®, OR EQUAL. PEX TUBING SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM \$816-08 AND F811. FITTINGS SHALL BE ZERO LEAD FITTINGS MEETING THE REQUIREMENTS OF ASTM FISOT, PEX PIPING SHALL MEET THE REQUIREMENTS OF SECTION 604.1.2 OF THE 2013 CPC. POTABLE PEX PIPING PLACED IN SOIL SHALL BE SLEEVED WITH IN ACCORDANCE WITH TABLE 604.1 (FOOTNOTE 2). THE FOLLOWING ARE EXCEPTIONS TO THE USE OF PEX
- (1) PIPING WITHIN 18 INCHES OF WATER HEATER SHALL BE TYPE L COPPER. (2) DOMESTIC HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL TYPE L COPPER.

PLUMBING SYMBOL	_S AND LEGEND
AC	ABOVE CEILING
uc	UNDER COUNTER
BF	BELOW FLOOR
B5	BELOW SLAB
ΙW	IN WALL
VR	VENT RISER
VTR	VENT THRU ROOF
WD,R	WASTE DROP, RISER
GW	GREASE WASTE
WH	WATER HEATER (SEE SCHEDULE)
CWR,D	COLD WATER RISER DROP
HWR,D	HOT WATER RISER, DROP
HWRT	HOT WATER RETURN
FCW	FILTERED COLD WATER
WCO, GCO	WALL CLEANOUT, GRADE CLEANOUT
PB	PUSH BUTTON TO ENERGIZE DHW RECIRCULATION PUMP
<u>©</u>	OCCUPANCY SENSOR TO ENERGIZE DHW RECIRCULATION PUMP
	CLEANOUT
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
SSW	SOLAR SUPPLY WATER PIPING
· · · · SRW	SOLÁR RETURN WATER PIPING
w	SANITARY WASTE PIPING
v	VENT PIPING
── X ─ ─	SHUT OFF VALVE (LINE SIZED)
	WATER HEATER DRAIN PIPE
-·-·	WATER HEATER TEMP. AND PRESSURE DRAIN PIPE

PLUMBING NOTES

- 1. ALL WATER AND WASTE PLUMBING INSTALLATION WORK AND ALL PLUMBING MATERIALS SHALL BE IN ACCORDANCE WITH THE 2013 CALIFORNIA PLUMBING 21. FLOOR, WALL, AND CEILING PLATES: FIT ALL PIPES WITH OR WITHOUT
- 2. PLUMBING FIXTURES NOT SPECIFIED ON PLANS SHALL BE SELECTED BY INSTALLING SUBCONTRACTOR AND SUBMITTED TO OWNER'S REPRESENTATIVE FOR APPROVAL, FIXTURES SHALL MEET CURRENT CPC AND CAL-GREEN CODES. MAXIMUM FLOW RATES SHALL BE AS FOLLOWS: 1.8 GPM

SINKS Ø.5 GPM LAVATORIES SHOWERS 2.0 GPM WATER CLOSETS 1.28 GPF

- 3. FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING WORK INDICATED ON THE DRAWINGS, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
- 4. PROVIDE ALL NECESSARY PLUMBING CONNECTIONS TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OR SECTION OR BY OWNERS, PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION. AT GAS CONNECTIONS, PROVIDE GAS COCK, DIRT LEG, UNION AND FLEX CONN. PROVIDE DRAIN PAN AND TEMPERATURE / PRESSURE RELIEF YALVES AT WATER HEATERS.
- 5. PIPING IS TO BE FIELD LOCATED IN SUCH A WAY AS TO AVOID OBSTACLES, MEET CALIFORNIA PLUMBING CODE (CPC) REQUIREMENTS AND ALLOW SERVICE CLEARANCE TO AREAS AND EQUIPMENT THAT MAY REQUIRE SERVICING.
- 6. ALL HORIZONTAL WASTE / VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/4"
- 1. HORIZONTAL VENT PIPE SHALL BE SO GRADED AND CONNECTED AS TO DRIP BACK BY GRAVITY TO THE DRAIN PIPE IT SERVES PER 2013 CPC 905.2. 8. INSULATE ALL POTABLE HOT WATER SUPPLY PIPING WITH K-FLEX 3/" WALL
- THICKNESS INSUL-TUBE® OR EQUAL. CONDUCTIVITY = 0.29 (BTU-IN/HR-°F) AT 15°F IN NON CONDITIONED SPACE, IN ACCORDANCE WITH ASTM CITT OR C518. 9. FOR EXACT LOCATION OF PLUMBING FIXTURES AND MOUNTING HEIGHTS, SEE ARCHITECTURAL ELEVATIONS.
- 10. PRESSURE RELIEF VALVE SHALL DRAIN IN ACCORDANCE WITH 2013 CPC
- SECTION 608.5. 11. WHERE WATER AND SEWER ARE RUN IN A COMMON TRENCH, TRENCHING SHALL MEET THE REQUIREMENTS SET FORTH IN THE 2013 CPC SECT. 720.
- 12. PROVIDE EASY SHUT-OFF CAPABILITY FOR WATER HEATERS. 13. PROVIDE WATER HEATER SUPPORT AND SEISMIC BRACING PER 2013 CPC,
- SECTION 507.0. 14. PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH CHAPTER 3 OF THE 2013 CPC WITH SUPERSTRUT HANGERS, OR EQUAL. PROVIDE
- ISOLATORS AT ALL HANGERS WHERE PIPING IS NOT INSULATED. 15. PROVIDE BACKFLOW PREVENTION FOR WATER SUPPLY TO BUILDING AS REQUIRED BY ADMINISTRATIVE AUTHORITY.
- 16. HOSEBIBBS SHALL BE FREEZE-PROOF AND EQUIPPED WITH APPROVED BACKFLOW PREVENTION DEVICE, LOCATION SHALL BE PROVIDED BY OWNER'S REPRESENTATIVE.
- 17. FOR IN TRENCH DETAILS, SEE CIVIL DRAWINGS. 18. CLEANOUTS IN FIRE RATED WALLS SHALL HAVE BOTH METAL BODY AND
- COVER CONSISTENT WITH PIPE MATERIAL SCHEDULE. 19. FOR PIPING MATERIALS OUTSIDE OF BUILDING, REFER TO CIVIL ENGINEERING
- SPECIFICATIONS. 20.SLEEVES: INSTALL AMI SLEEVES OF SUFFICIENT SIZE TO ALLOW FOR FREE MOTION OF PIPE, 24 GAGE GALVANIZED STEEL. THE SPACE BETWEEN PIPE AND SLEEVES SHALL BE CAULKED AND MADE WATERTIGHT. PIPES PENETRATING WALLS BELOW GRADE SHALL BE ANCHORED AT THE WALL. PROVIDE I" WIDE CHROME OR NICKEL PLATED ESCUTCHEONS ON ALL PIPES EXPOSED TO VIEW WHERE PASSING THROUGH WALLS, FLOORS, PARTITIONS, CEILINGS, AND

- SIMILAR LOCATIONS. SIZE THE ESCUTCHEONS TO FIT PIPE AND COVERING. INSULATION PASSING THROUGH WALLS, FLOORS, OR CEILINGS, AND ALL HANGER RODS PENETRATING FINISHED CEILINGS WITH CHROME-PLATED OR STAINLESS STEEL PLATES. OPENINGS THROUGH AIR PLENUMS SHALL BE
- SEALED AIRTIGHT. 22. PROVIDE HILTI FS-ONE FIRESTOP SEALANT AROUND PIPE PENETRATIONS THROUGH 1 OR 2 HOUR RATED WALL OR FLOOR ASSEMBLIES, APPLY ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
- 23. PLUMBING VENTS SHALL BE AT LEAST 10' FROM OR 3' ABOVE ANY DOOR, OPENABLE WINDOW, MECHANICAL AIR INTAKE, OR OTHER INLETS INTO THE BUILDING PER CPC 906.2.

24. DISINFECTION OF WATER SYSTEM

- (A) PRIOR TO FINAL INSPECTION, CLEAN AND DISINFECT DOMESTIC HOT AND COLD WATER SYSTEMS. PERFORM ALL WORK PER AWWA STANDARD PROCEDURES FOR DISINFECTING WATER MAINS AND AS REQUIRED BY LOCAL BUILDING AND HEALTH DEPARTMENT CODES.
- (B) WITH ALL FIXTURES CONNECTED AND OPERABLE AND READY FOR USE AND WHEN, BY TEST, SYSTEM IS PROVED TO BE FREE FROM LEAKS, THOROUGHLY FLUSH BY FULLY OPENING EVERY OUTLET AND OPERATING EVERY FIXTURE UNTIL CLEAR WATER FLOWS FROM ALL OUTLETS AND FIXTURES.
- (C) FILL SYSTEM COMPLETELY FULL OF WATER AND INJECT DISINFECTANT SLOWLY AND CONTINUOUSLY AT AN EVEN RATE (NOT IN SLUGS) UNTIL AN ORTHOTOLIDIN TEST AT EACH OUTLET SHOWS A CHLORINE RESIDUAL CONCENTRATION OF AT LEAST 50 PARTS PER MILLION (PPM)
- (D) MAINTAIN CONDITION FOR 24 HOURS WITH CHLORINE RESIDUAL OF 50 PPM RETAINED IN SYSTEM FOR THIS 24 HOUR PERIOD. IF, AFTER 24 HOURS, ORTHOTOLIDIN TESTS INDICATE THAT CHLORINE RESIDUAL CONCENTRATION HAS DECREASED BELOW 50 PPM, THEN DISINFECTION PROCEDURE MUST BE REPEATED UNTIL AN APPROVED RESULT IS OBTAINED.
- (E) WHEN THE ABOVE PROCEDURE HAS BEEN COMPLETED, FLUSH OUT ENTIRE SYSTEM WITH FRESH WATER UNTIL AN ORTHOTOLIDIN TEST AT ANY OUTLET SHOWS A RESIDUAL OF NOT MORE THAN 0.02 PPM.
- (F) POST WARNING SIGNS AT ALL OUTLETS AND IN CONSPICUOUS AREAS WHILE DISINFECTING THE SYSTEM.

25. TESTING OF PIPING

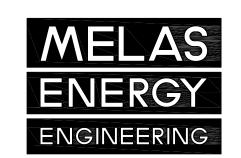
- (A) ALL PIPING SHALL TESTED AT COMPLETION OF ROUGH-IN, OR AT OTHER TIMES AS DIRECTED BY ARCHITECT. TEST IN ACCORDANCE WITH THE FOLLOWING SCHEDULE TO SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR (4) HOURS AT THE TEST PRESSURE
- (B) ISOLATE FROM THE SYSTEM ALL EQUIPMENT WHICH MAY BE DAMAGED BY TEST PRESSURE. TEST SCHEDULE AS FOLLOWS: SYSTEM TESTED TEST PRESSURE PSIG TEST WITH ALL SOIL, WASTE, DRAIN FILL WITH WATER TO TOP OF WATER
- AND VENT PIPING WITHIN HIGHEST JOINT IN SYSTEM± BUILDINGS. ALLOW TO STAND 2 HOURS OR LONGER AS DIRECTED BY INSPECTOR.

WATER PIPING 150 PSIG WATER

PLUMBING EQUIPMENT SCHEDULE ACCESSORIES MFGR & MODEL # SPECIFICATIONS DESCRIPTION PROVIDE GALVANIZED STEEL WATER HEATER DRAIN PAN. ELECTRIC 10 GAL. WATER HEATER, COMPACT 10 GAL. AO SMITH EJC-10 RECOVERY = 8.0 GPH at 90°F RISE STRAP WATER HEATER TO 34" PLYWOOD, SECURED TO ELECTRIC WATER HEATER 120V - 1650W SIDE OF TRUSS. DIMENSIONS: 16"D x 18.25" HT

		MBING FIXTURE	SCHEDIII E
CYMBOL			
SYMBOL	DESCRIPTION	MFGR # MODEL #	ACCESSORIES
WC-1	WATER CLOSET	PROFLO 9403/9412	1.28 GPF, ADA COMPLIANT, WHITE VITREOUS CHINA ELONGATED BOWL
∟ -1	WALL HUNG LAVATORY	PROFLO PF5511WH SLOAN ETF-600	20"X18" ADA COMPLIANT WHITE, VITREOUS CHINA WALL HUNG LAV BATTERY OPERATED ELECTRONIC FAUCET, Ø.5 G.P.H.
UR-1	VITREOUS CHINA, WALL HUNG URINAL W/ FLUSH VALVE	PROFLO PF1815, ADA SLOAN ROYAL 186-0.125 FLUSH VALVE	WHITE VITREOUS CHINA, WALL HUNG, ADA HEIGHT, Ø.125 GPF, FLUSH VALVE, 34" TOP INLET SPUD
5-1	STAINLESS STEEL SINGLE BOWL SINK	PROFLO PF\$R252264 OPTION 1: PROFLO PFXC4111 OPTION 2: PROFLO PFXC31Ø1	25"x22" STAINLESS STEEL, SINGLE BOWL SINK, ADA COMPLIANT 1.5 GPM SINGLE LEVER FAUCET WITH PULL OUT SPRAY
DF-1	WALL MOUNTED DUAL LEVEL DRINKING FOUNTAIN	ELKAY LZSTLDDWSSK	ADA COMPLIANT 1898 TYPE 304 STAINLESS STEEL DRINKING FOUNTAIN WITH BOTTLE FILLER
FD	FLOOR DRAIN	JR SMITH S2005Y02A05NB	5" ADJ. STRAINER, NICKEL BRONZE TOP, 2" OUTLET
TP	TRAP PRIMER	PROFLO PFPR500	FLOOR DRAIN TRAP PRIMER

PLUMBING NOTES AND SCHEDULES



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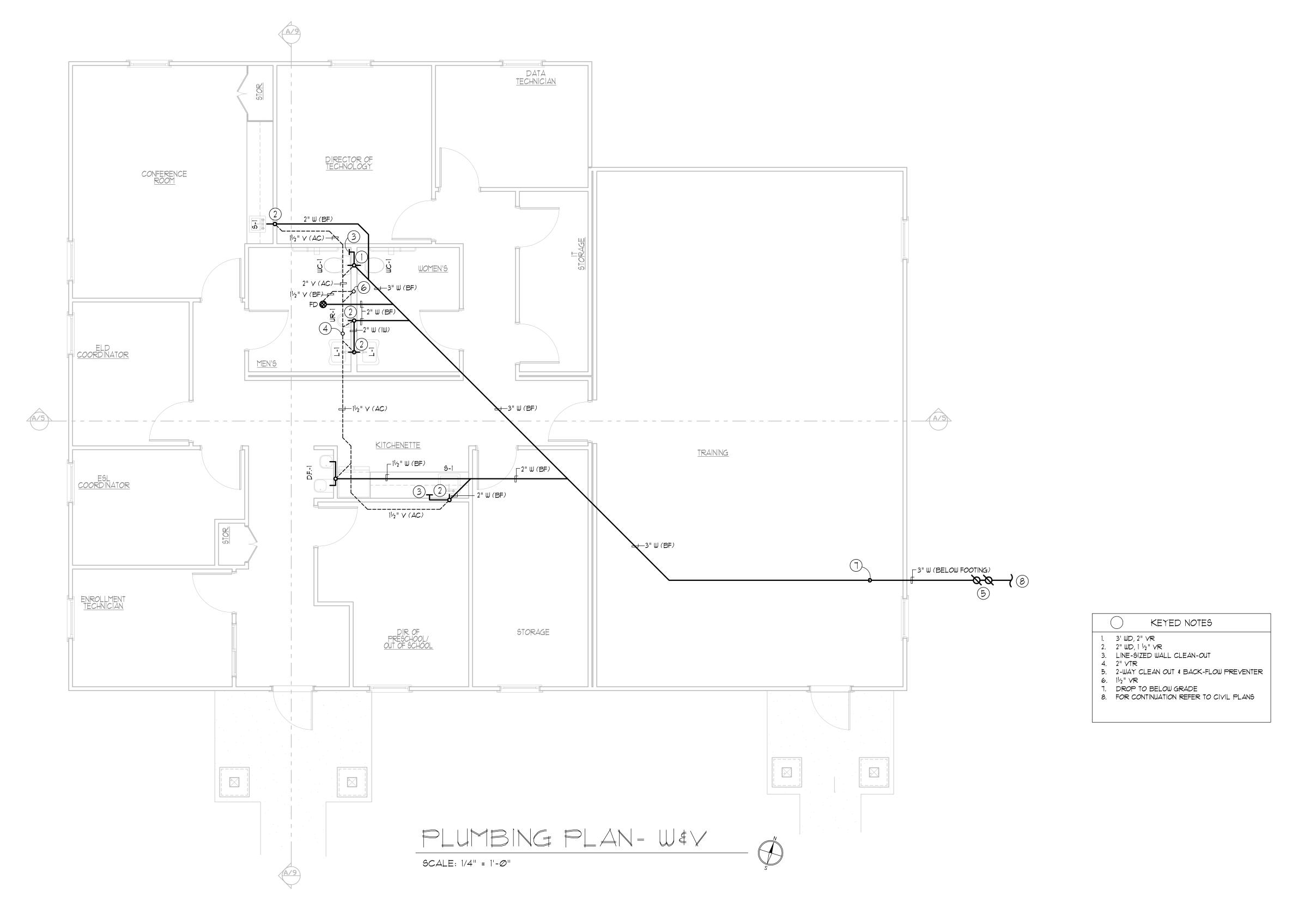
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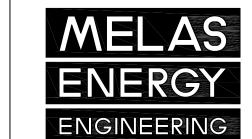
10840 GILMORE V GRASS VALLEY, (By: Description:

Plot Date: 4/6/2016 16-041 as noted

		IMBING FIXTURE	SCHEDULE
SYMBOL	DESCRIPTION	MFGR & MODEL #	ACCESSORIES
WC-1	WATER CLOSET	PROFLO 9403/9412	1.28 GPF, ADA COMPLIANT, WHITE VITREOUS CHINA ELONGATED BOWL
L-1	WALL HUNG LAVATORY	PROFLO PF5511WH SLOAN ETF-600	20"X18" ADA COMPLIANT WHITE, VITREOUS CHINA WALL HUNG LAV BATTERY OPERATED ELECTRONIC FAUCET, Ø.5 G.P.H.
UR-1	VITREOUS CHINA, WALL HUNG URINAL W/ FLUSH VALVE	PROFLO PF1815, ADA SLOAN ROYAL 186-0.125 FLUSH VALVE	WHITE VITREOUS CHINA, WALL HUNG, ADA HEIGHT, Ø.125 GPF, FLUSH VALVE, 3/4" TOP INLET SPUD
6 -1	STAINLESS STEEL SINGLE BOWL SINK	PROFLO PF6R252264 OPTION 1: PROFLO PFXC4III OPTION 2: PROFLO PFXC3IØI	25"x22" STAINLESS STEEL, SINGLE BOWL SINK, ADA COMPLIANT 1.5 GPM SINGLE LEVER FAUCET WITH PULL OUT SPRAY
DF-I	WALL MOUNTED DUAL LEVEL DRINKING FOUNTAIN	ELKAY LZSTLDDWSSK	ADA COMPLIANT 18ga TYPE 304 STAINLESS STEEL DRINKING FOUNTAIN WITH BOTTLE FILLER
FD	FLOOR DRAIN	JR SMITH S2005Y02A05NB	5" ADJ. STRAINER, NICKEL BRONZE TOP, 2" OUTLET
TP 9	TRAP PRIMER	PROFLO PFPR500	FLOOR DRAIN TRAP PRIMER



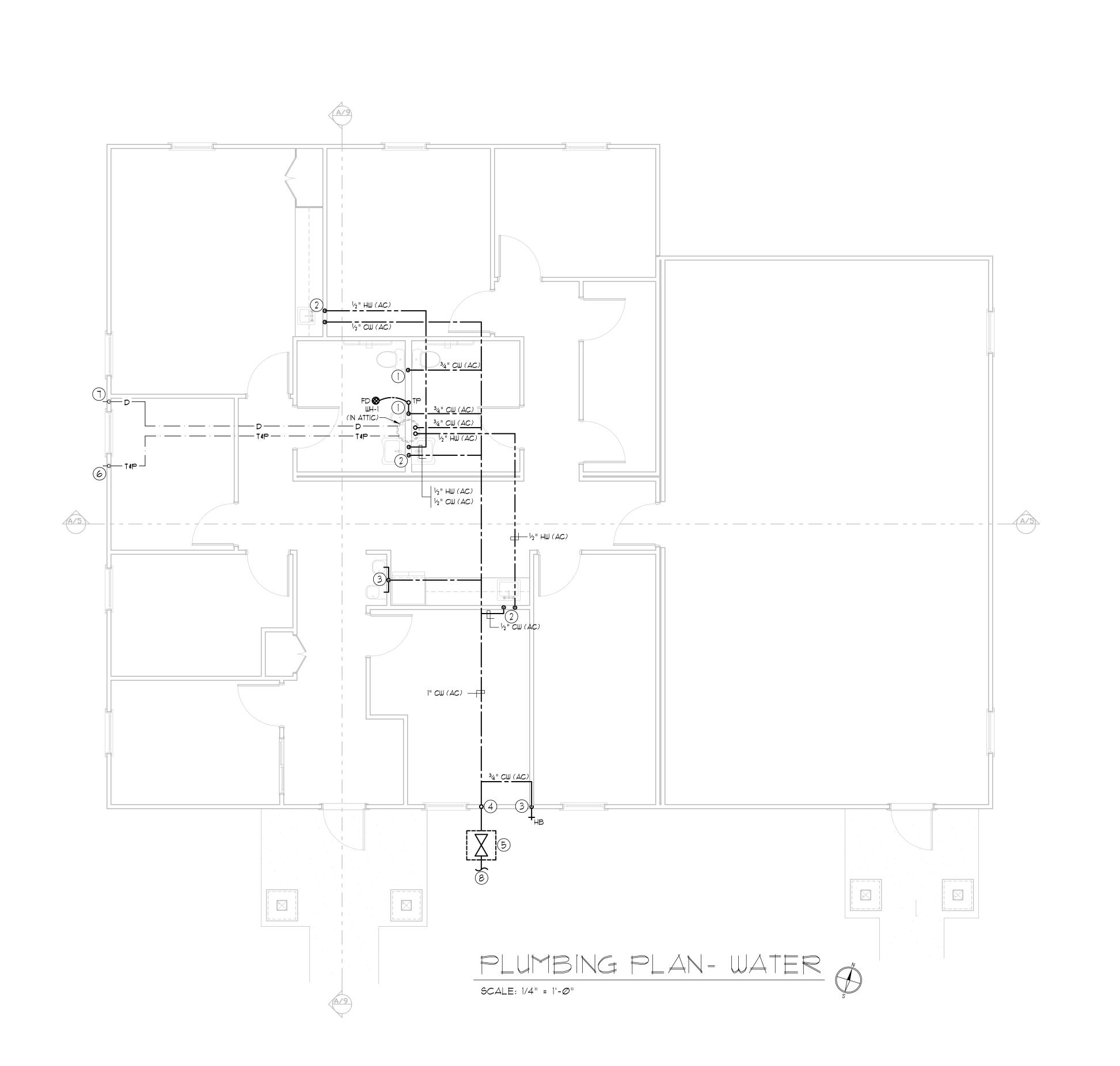
C:\Users\David\Documents\Autodesk\My Projects\Melas\GVS District Support Service Bldg\Sheets\x16-041-P1.1 Plumbing Plan W&V.dwg, 04/06/16 01:43:26pm



ENERGY & MECHANICAL CONSULTANTS
547 UREN STREET
NEVADA CITY, CA 95959
PHONE (530) 265-2492
FAX (530) 265-2273



DISTRICT SUPPORT SERVICE BLDG.
for GRASS VALLEY SCHOOL DISTRICT
10840 GILMORE WAY
GRASS VALLEY, CA 95945
PLUMBING PLAN W&V Revisions: No. Date: By: Description: Plot Date: 4/6/2016 16-041 Job# Scale as noted Date 1st Issued N/A Sheet Number



C:\Users\David\Documents\Autodesk\My Projects\Melas\GVS District Support Service Bldg\Sheets\x16-041-P1.2 Plumbing Plan - Water.dwg, 04/06/16 01:43:53pm



ENERGY & MECHANICAL CONSULTANTS
541 UREN STREET
NEVADA CITY, CA 95959
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FAX (530) 265-2213



DISTRICT SUPPORT SERVICE BLDG.	tor GRASS VALLEY SCHOOL DISTRICT	10840 GILMORE WAY	GRASS VALLEY, CA 95945	PLUMBING PLAN - WATER	
riojeci ilile.		Project Location:		Sheet Title:	
Revisions: lo. Date):	Ву:	Des	scription:	
-		-	-		
Plot Date:		4/6/20	116		
lob#	1	6-0			
Scale	8	as I	าด	ted	_
Date 1st ssued		N	/A		
	1				

Sheet Number

KEYED NOTES

1. 34" CW DROP IN WALL
2. 1/2" CW & HW DROP IN WALL
3. 1/2" CW DROP IN WALL
4. 1" CW RISER IN WALL
5. 1" SOV IN VALVE BOX
6. TERMINATE 34" T & WITH DOWNWARD ELBOW 6"
MIN. ABOVE GRADE
7. TERMINATE I" PVC DRAIN FROM DRAIN PAN
WITH DOWNWARD ELBOW 6" MIN. ABOVE GRADE
8. FOR CONTINUATION REFER TO CIVIL PLANS

Proje	ct Name:	District Support Services	Building		NRCC-PRF-01-E	Page 1 of 17	
Proje	ct Address:	10840 Gilmore Way Grass	s Valley		Calculation Date/Time:	17:04, Tue, Apr 05,	2016
Comp	oliance Scope:	NewEnvelopeAndMechar	nical I		Input File Name:	District Support Se	rvices Bld - 16041.xml
A. PF	ROJECT GENERAL I	NFORMATION					
1.	Project Location (c	ity)	Grass Valley	7.	# of dwelling units		0
2.	CA Zip Code			8.	Standards Version		Compliance2015
3.	Climate Zone		11	9.	Compliance Software (ve	rsion)	EnergyPro 6.7
4.	Total Conditioned I	loor Area	2,880 ft ²	10.	Building Orientation (deg)	(S) 168 deg
5.	Total Unconditione	d Floor Area	0 ft ²	11.	Permitted Scope of Work		NewEnvelopeAndMechanical
6.	# of Stories (Habita	ble Above Grade)	1	12	Building Type(s)		Nonresidential

B. COMPLIANCE RESULTS FOR PER	RFORMANCE COMPONENTS			§ 140.1
		BUILDING COMPLIES		
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	12.1	15.5	-3.4	-28.19
Space Cooling	126.5	80.0	46.5	36.8%
Indoor Fans	119.0	41.8	77.2	64.9%
Heat Rejection				-
Pumps & Misc.				-
Domestic Hot Water	13.7	34.7	-21.0	-153.3%
Indoor Lighting	56.1	56.1		0.0%
COMPLIANCE TOTAL	327.4	228.1	99.3	30.3%
Receptacle	66.4	66.4	0.0	0.0%

B. COMPLIANCE RESULTS FOR PE	RFORMANCE COMPONENTS			§ 140.1
		BUILDING COMPLIES		
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	12.1	15.5	-3.4	-28.1%
Space Cooling	126.5	80.0	46.5	36.8%
Indoor Fans	119.0	41.8	77.2	64.9%
Heat Rejection				-
Pumps & Misc.				-
Domestic Hot Water	13.7	34.7	-21.0	-153.3%
Indoor Lighting	56.1	56.1		0.0%
COMPLIANCE TOTAL	327.4	228.1	99.3	30.3%
Receptacle	66.4	66.4	0.0	0.0%
Process				-
Process Ltg				-
TOTAL	393.8	294.5	99.3	25.29

Project Nan	ne:	District Support Services E	District Support Services Building		PRF-01-E	Page 4 of 17	
Project Add	dress:	10840 Gilmore Way Grass	0840 Gilmore Way Grass Valley		tion Date/Tim	e: 17:04, Tue, Apr 05, 2016	
Compliance	e Scope:	NewEnvelopeAndMechan	ical	Input Fi	ile Name:	District Support Services Bld	l - 16041.xml
G. COMPL	IANCE PA	TH & CERTIFICATE OF COM	PLIANCE SUMMARY				
The follow	ring buildin	g components are only eligible relevant to th	for prescriptive compliance. Indicate which are e project.	The follo	wing building	components may have mandator which are relevant to the pi	
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		\boxtimes	Electrical: §130.5	NRCC-ELC-01-E
	\boxtimes	Lighting (Sign) §140.8	NRCC-LTS-01-E		\boxtimes	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

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Compliance Scope: NewEnvelopeAndMechanical

District Support Services Building

10840 Gilmore Way Grass Valley

Project Name:

District Support Services Building	NRCC-PRF-01-E	Page 7 of 17		
10840 Gilmore Way Grass Valley	Calculation Date/Time:	17:04, Tue, Apr 05, 2016		
NewEnvelopeAndMechanical	Input File Name:	District Support Services Bld - 1	6041.xml	
to indicate which Certificates must be submitted for the features to y forms are completed and signed to post in field for Field Inspecto	o be recognized for compliant to verify).	•	Confi	rmed
Compliance Forms (required for submittal)			Pass	Fail
☐ NRCI-PRC-01-E Refrigerated Warehouse				
☐ NRCA-PRC-01-F- Compressed Air Systems				
☐ NRCA-PRC-02-F- Kitchen Exhaust				
☐ NRCA-PRC-03-F- Garage Exhaust				
☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Moto	r Controls			
☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condense	er Controls			
☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condense	r Controls			
☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compr	ressor			
☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	1			
	10840 Gilmore Way Grass Valley NewEnvelopeAndMechanical TALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIF to indicate which Certificates must be submitted for the features to fy forms are completed and signed to post in field for Field Inspecto MCH and LTI Details Sections for Acceptance Tests and forms by eq Compliance Forms (required for submittal) NRCI-PRC-01-E Refrigerated Warehouse NRCA-PRC-01-F- Compressed Air Systems NRCA-PRC-03-F- Garage Exhaust NRCA-PRC-03-F- Garage Exhaust NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Moto NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condense NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condense NRCA-PRC-07-F- Refrigerated Warehouse- Variable Speed Compressions NRCA-PRC-07-Refrigerated Warehouse- Variable Speed Compr	10840 Gilmore Way Grass Valley NewEnvelopeAndMechanical Input File Name: TALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/ to indicate which Certificates must be submitted for the features to be recognized for complia fy 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. Compliance Forms (required for submittal) NRCI-PRC-01-E Refrigerated Warehouse NRCA-PRC-01-F- Compressed Air Systems NRCA-PRC-02-F- Kitchen Exhaust	10840 Gilmore Way Grass Valley Calculation Date/Time: 17:04, Tue, Apr 05, 2016 NewEnvelopeAndMechanical Input File Name: District Support Services Bld - 1 TALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) — to indicate which Certificates must be submitted for the features to be recognized for compliance for 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. Compliance Forms (required for submittal) NRCA-PRC-01-E Refrigerated Warehouse NRCA-PRC-02-F- Kitchen Exhaust NRCA-PRC-03-F- Garage Exhaust NRCA-PRC-03-F- Garage Exhaust NRCA-PRC-05-F- Refrigerated Warehouse- Evaporator Fan Motor Controls NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	10840 Gilmore Way Grass Valley NewEnvelopeAndMechanical Input File Name: District Support Services Bld - 16041.xml TALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) — to indicate which Certificates must be submitted for the features to be recognized for compliance fry 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. Compliance Forms (required for submittal) Pass NRCI-PRC-01-E Refrigerated Warehouse NRCA-PRC-01-F- Compressed Air Systems NRCA-PRC-02-F- Kitchen Exhaust NRCA-PRC-03-F- Garage Exhaust NRCA-PRC-03-F- Refrigerated Warehouse- Evaporator Fan Motor Controls NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls NRCA-PRC-07-F- Refrigerated Warehouse- Variable Speed Compressor

			8 - , - :					
I. ENVE	LOPE GENERAL INFORMATION (See	NRCC-PRF-ENV-DETAILS for more in	nformati	on)				
1.	Total Conditioned Floor Area	2,880 ft ²	5.	Number of Floors Above Grade	1		Confi	irmed
2.	Total Unconditioned Floor Area	0 ft ²	6.	Number of Floors Below Grade	0			
3.	Addition Conditioned Floor Area	0 ft ²					Ð	
4.	Addition Unconditioned Floor Area	0 ft ²					Pass	Fail
7. Opaq	ue Surfaces & Orientation	8. Total Gross Sur	face Area	9. Total Fenestration Area	10. Window	to Wall Ratio		
North W	/all		640 ft ²	36 ft ²		05.6%		
East Wa	II		480 ft ²	24 ft ²		05.0%		
South W	/all		640 ft ²	24 ft ²		03.8%		
West Wa	all		480 ft ²	48 ft ²		10.0%		
	Total		2,240 ft ²	132 ft ²		05.9%		
Roof			2,880 ft ²	0 ft ²		00.0%		

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Input File Name: District Support Services Bld - 16041.xml

§ 110.6

5. 6. 7. 8. 9. Overall Overall U-factor SHGC VT

> § 120.7/ § 140.3 7.

> > / C-Factor

§ 110.1 / § 110.2

Acceptance

Testing

NA U-Factor: 0.047 N

NA U-Factor: 0.038 N

Continuous U-Factor / F-Factor

R-Value

2240 Wood 19 NA U-Factor: 0.072 N

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Confirmed

§ 140.3 | Confirmed

NRCC-PRF-01-E Page 8 of 17

Framing Cavity
Type R-Value

Wood 30

NRCC-PRF-01-E Page 9 of 17

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CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Compliance Scope: NewEnvelopeAndMechanical

J. FENESTRATION ASSEMBLY SUMMARY

K. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name

R-19 Floor Crawlspace9

R-30 Roof Attic11

R-19 Wall13

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

District Support Services Building

Project Name:

Fenestration Assembly Name

Tag or I.D.

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

Operable Low-E Non-Metal Double

District Support Services Building

Fenestration Type

VerticalFenestration

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)

Surface Type

ExteriorFloor

ExteriorWall

10840 Gilmore Way Grass Valley

Project Name:

Project Address:

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04052016-760 Report Generated at: 2016-04-05 17:05:20

Project Name:	District Support Services Building	NRCC-PRF-01-E	Page 2 of 17
Project Address:	10840 Gilmore Way Grass Valley	Calculation Date/Time:	17:04, Tue, Apr 05, 2016
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	District Support Services Bld - 16041.xml

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

6th	Space Heating: Check envelope and mechanical	Space Heating
7th	Domestic Hot Water: Check mechanical	Domestic Hot Water
		Penalty Energy Credit
D. EXCE	PTIONAL CONDITIONS	
	ect shows partial compliance, either envelope only or mecha ce or show prescriptive lighting compliance before operatio	nical only, excluding lighting systems. The building must show partial compliance including lighting or full new building
E. HERS		
	VERIFICATION	
This Secti	on Does Not Apply	
	on Does Not Apply	

Documentation Author (Retain copies and verify	ALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) — to indicate which Certificates must be submitted for the features to be recognized for compliance of 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	rmed
Building Component	Compliance Forms (required for submittal)	Pass	Fail
Favalana	☐ 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		

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Input File Name: District Support Services Bld - 16041.xml

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Input File Name: District Support Services Bld - 16041.xml

Confirmed

NRCC-PRF-01-E Page 6 of 17

Calculation Date/Time: 17:04, Tue, Apr 05, 2016

NRCC-PRF-01-E Page 5 of 17

Calculation Date/Time: 17:04, Tue, Apr 05, 2016

Building Component	Compliance Forms (required for submittal)	Pass	Fail
Favalana	☑ 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		
	☐ NRCA-MCH-18-A- Energy Management Controls Systems		
	☐ NRCV-MCH-04-H- Duct Leakage Test		

ROOFING PRODUCT SUMMARY							§ 140.3
1.	2.	3.	4.	5.	6.	7.	
Product Type	Product ≥25 lb ft²	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	CRRC Product	ID Number
R-30 Roof Attic11	No	0.08	0.75	NA	No	NA	

Certification Method

NFRCRated

Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Site-built fenestration less than 1,000 ft², or more than or equal to 1,000 ft² see Reference Nonres

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-04052016-760 Report Generated at: 2016-04-05 17:05:20

Project Name:	District Support Services Building				NRCC-PRF-01-E	Page 3 of 17	
Project Address:	10840 Gilmore Way Grass Valley				Calculation Date/Time: 17:04		
Compliance Scope:	NewEnvelopeAndMe	chani	cal		Input File Name:	District Support Services Bld	- 16041.xml
G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY							
	Identi	fy wh	ch building compo	onents use the performance or pre	escriptive path for compliar	nce. "NA"= not in project	
	For com	ponei	ts that utilize the	performance path, indicate the sh	neet number that includes i	mandatory notes on plans.	
Building Component		Compliance Path Comp		Compliance Forms (required for	submittal)		Location of Mandatory Notes on Plans
		Ø	Performance	NRCC-PRF-ENV-DETAILS (section	of the NRCC-PRF-01-E)		
Envelope			Prescriptive NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E				
			NA				
		\boxtimes	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)			
Mechanical			Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05	5 / 06 / 07-E	_	
			NA				
		$\overline{}$		 			

	Identify wh	ich building comp	onents use the performance or prescriptive path for compliance. "NA"= not in project	
	For componer	nts that utilize the	performance path, indicate the sheet number that includes mandatory notes on plans.	
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	
		NA		
	\boxtimes	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		
	\boxtimes	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
Domestic 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	
,	\boxtimes	NA		
		Performance	S4 (section of the NRCC-PRF-01-E)	
Covered Process: Laboratory Exhaust		Prescriptive	NRCC-PRC-01/ 09-E	
	\boxtimes	NA		

Report Version: NRCC-PRF-01-E-04052016-760 Report Generated at: 2016-04-05 17:05:20

Calculation Date/Time: 17:04, Tue, Apr 05, 2016 Project Address: 10840 Gilmore Way Grass Valley District Support Services Bld - 16041.xml NewEnvelopeAndMechanical Input File Name: Compliance Scope: M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) Dry System Equipment ¹ (Fan & Economizer info included below in Table N) **System Type** Supp Heat Total Cooling **Total Heating** Output (kBtuh) Output (kBtu/h) **Equip Name** Equip Type (Simple ³ or Output Source (Y/N) (kBtu/h) Complex 4) Cooling Heating HP-13 SEER-15.8 HSPF-8.1 (Packaged1Phase) HP-219 SZHP (Split3Phase) Simple 1 47 No 43 SEER-16.0 HSPF-9.0 HP-339 SZHP (Split3Phase) Simple 1 15 No 0 15 SEER-20.0 HSPF-10.0 Wet System Equipment (kBtu/h) EF: 0.867 NA NA NA NA Electric Storage2 ² Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc. ³ Simple Systems must complete NRCC-CXR-03-E commissioning design review form ⁴ Complex Systems must complete NRCC-CXR-04-E commissioning design review form

⁵ A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS ⁶ Status: N - New, A – Altered, E – Existing

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)

Report Version: NRCC-PRF-01-E-04052016-760 Report Generated at: 2016-04-05 17:05:20 CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

ENERGY & MECHANICAL CONSULTANTS 547 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (53Ø) 265-2273

DISTRICT S > G Revisions: No. Date:

☐ NRCI-SPV-01-E Photovoltaic Systems CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04052016-760 Report Generated at: 2016-04-05 17:05:20

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Compliance Scope: NewEnvelopeAndMechanical

Project Name:

Project Address:

Building Component

Indoor Lighting

Outdoor Lighting

Sign Lighting

Electrical

District Support Services Building

10840 Gilmore Way Grass Valley

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

NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.

☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.

☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.

☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.

☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)

☐ 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.

NRCI-PLB-22-E - HERS verified single dwelling unit 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-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to

NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater

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.

☐ NRCI-STH-01-E - Any solar water heating

☐ NRCI-LTI-01-E - For all buildings

energize only line-voltage track lighting

☐ NRCI-LTO-01-E — Outdoor Lighting

☐ NRCI-LTS-01-E – Sign Lighting

☐ NRCA-LTI-03-A - Automatic daylighting controls

☐ NRCI-LTO-02-E- EMCS Lighting Control System

NRCI-ELC-01-E - Electrical Power Distribution

☐ NRCA-LTO-02-A - Outdoor Lighting Control

☐ NRCA-LTI-04-A - Demand responsive lighting controls

☑ NRCI-PLB-01-E - For all buildings with Plumbing Systems

Compliance Forms (required for submittal)

BLD **LCULATIONS** SERVICE **DRT** SUPP WAY CA 99 ENE 24 10840 GRAS By: Description:

16-041-00

N/A

Scale

Issued

Number

Project Name:	Į.	District Supp	istrict Support Services Building					NRCC-PRF	-01-E	Page	10 of 17			
Project Address:	:	L0840 Gilmo	re Way Gra	ass Valley				Calculation	n Date/Tim	e: 17:0	4, Tue, Apr 05, 2016			
Compliance Scop	e: I	NewEnvelop	eAndMech	anical				Input File	Name:	Distr	ict Support Services Bld	- 16041.xml		
N. ECONOMIZE	R & FAN	SYSTEMS S	SUMMAR	Y ¹								§ 140.4	Confi	irmed
1.	2.			3. 4.					5.					
	Outside Air			Sup	oly Fan				Retu	ırn Fan	· 70		Fail	
Equip Name	CFM	СҒМ	НР	ВНР	TSP (inch WC)	Control	СҒМ	НР	ВНР	TSP (inch WC)	Control	- Economizer Type (if present)	SS	=
HP-13	365	1400	0.660	0.660	1.50	ConstantVolume	NA	NA	NA	NA	NA	DifferentialEnthalp y		
HP-219	247	1400	0.200	0.200	0.45	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer		
HP-339	136	542	0.070	0.070	0.41	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer		П

¹ Mechanical ventilatior	calculations	and exhaust f	ans are includ	ed in the NRC	C-PRF-MCH-D	ETAILS section

EQUIPMENT CONTROLS		§ 120.	2 Conf	irmed
1.	2.	3.	7,7	77
Equip Name	Equip Type	Controls	Pass	Faii
HP-13	SZHP	1 Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer No Supply Air Temp. Control		
HP-219	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control		
HP-339	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control		
Res DHW1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC		

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(i) This Section Does Not Apply

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

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Project Name:	District Supp	oort Services Building	NRCC-PRF	-01-E	Page 11 of 17		
Project Address:	ddress: 10840 Gilmore Way Grass Valley Calculation Date/Time: 17:04, Tue, Apr 05, 2016						
Compliance Scope:	NewEnvelop	eAndMechanical	Input File	Name:	District Support Services	Bld - 16041.xml	
		NO CENTER AL INITO / NIDOC DE			•		
		NG GENERAL INFO (see NRCC-PRI	LIT-DETAILS for more info)				
This Section Does Not	Apply						
R. INDOOR CONDITI	ONED LIGHTIN	NG SCHEDULE (Adapted from NRC	CC-LTI-01-E) ¹				§ 130.0
This Section Does Not	Apply						
If lighting power densities we	re used in the compli	iance model Building Departments will need to	check prescriptive forms for Luminaire Schedule deta	ils.			
S1. COVERED PROCE	SS SUMMARY	– ENCLOSED PARKING GARAGES				§ 140.9	
This Section Does Not						3 2 10 15	
This Section Does Not /	трріу						
S2. COVERED PROCE	SS SUMMARY	– COMMERCIAL KITCHENS				§ 140.9	
This Section Does Not	Apply					•	
S3. COVERED PROCE	.SS SUMMARY	– COMPUTER ROOMS			§ 140.9		
This Section Does Not	Apply				,		
S4 COVERED PROCE	SS SLIMMARY	– LABORATORY EXHAUSTS			8 1	40.9	
This Section Does Not		EADORATORT EXTRAOSTS					
This Section Does Not /	трріу						
T. UNMET LOAD HO	URS						
Thermal Zone	Name	Cooling Unmet Load Hour Limit fo Thermal Zone	Proposed Cooling Unmet Load Hour	·c	nmet Load Hour Limit for Thermal Zone	Proposed Heating Unm	et Load Hour
3-Office		150	3065.75		150	255.75	
5 011100							
U. ENERGY USE SUM	IMARY				T		
	1MARY		Electric			Natural Gas	
	1MARY		Electric (kWh/yr) 39152.8			Natural Gas (therms/yr) 430.973	

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CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Project N	ame:	District Support Services Building	NRCC-PRF-01-E	Page 12 of 17				
Project A	ddress:	10840 Gilmore Way Grass Valley	Calculation Date/Time:	17:04, Tue, Apr 05, 2016				
Complian	ice Scope:	NewEnvelopeAndMechanical	Input File Name:	District Support Services Bld - 16041.xml				
росим	ENTATION AU	THOR'S DECLARATION STATEMENT		§ 10-103				
I certify t	hat this Certifica	te of Compliance documentation is accurate and complete.		·				
Documer	ntation Author N	ame: Christopher J. Miller						
Company	: MELAS ENERG	Y ENGINEERING	Signature:					
Address:	547 Uren St.		Signature Date:					
City/State	e/Zip: Nevada Ci	ty CA 95959	CEA Identification (If applicable):					
Phone: 5	30 265-2492							
RESPON	SIBLE PERSON	'S DECLARATION STATEMENT						
I certify t	he following und	ler penalty of perjury, under the laws of the State of California:						
1		that I am eligible under the provisions of Division 3 of the Business ar State of California as a civil engineer, mechanical engineer, electrical e	5					
2	l	m eligible under the provisions of Division 3 of the Business and Profed that I am a licensed contractor performing this work.	essions Code by section 5537.2 or 67	737.3 to sign this document as the person responsible for its				
3	1	m eligible under Division 3 of the Business and Professions Code to signofessions Code Sections 5537, 5538 and 6737.1.	gn this document because it pertain	s to a structure or type of work described as exempt pursuant to				
Responsi	ble Envelope De	signer Name: Andrew Pawlowski	Ci-mat					
Company	: Siteline Archite	ecture	Signature:					
Address:	644 Zion St.		Date Signed:					
City/State	e/Zip: Nevada Ci	ty CA 95959	Declaration Statement Type:					
Phone: 5	30 478-9415		Title:	License #:				
Responsi	ble Lighting Des	gner Name:	Si-mature NOT IN SCORE					
Company	<i>r</i> :							
Address:			Date Signed:					
City/State	e/Zip:		Declaration Statement Type:					
Phone:			Title:	License #:				
Responsi	ble Mechanical	Designer Name: Michael Melas						
Company	: Melas Energy	Engineering	-Signature:					
Address:	547 Uren St.		Date Signed:					
City/State	e/Zip: Nevada Ci	ty CA 95959	Declaration Statement Type:					
Phone: 5	30 265-2492		Title:	License #:				

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Project Name:	District Support Services Building	NRCC-PRF-01-E	Page 13 of 17
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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	District Support Services Bld - 16041.xml

NRCC-PRF-ENV-DETAILS -SECTION START-

1. 2. Surface Name Surface Type R-19 Floor Crawlspace9 ExteriorFloor			Confi	rmed	
1.	2.	3.	4.	Pa	Fai
Surface Name	Surface Type	Description of Assembly Layers	Notes	ISS	≝
R-19 Floor Crawlspace9	ExteriorFloor	Air - Floor - 3 1/2 in. Wood framed floor, 16in. OC, 5.5in., R-19 Plywood - 1/2 in. Carpet - 3/4 in.			
R-30 Roof Attic11	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.			
R-19 Wall13	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.			

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

C. OPAQUE DOOR SUMMARY					Confi	rmed
1.	2.	3.	4.	5.		
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Overall U-factor	Pass	Fail
Insulated Metal Door15	MetalInsulatedSwingingDoor	DefaultPerformance	Swinging	0.500		

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

This Section Does Not Apply

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roject Name:	District Support Services Building	NRCC-PRF-01-E	Page 14 of 17
roject Address:	10840 Gilmore Way Grass Valley	Calculation Date/Time:	17:04, Tue, Apr 05, 2016
ompliance Scope:	NewEnvelopeAndMechanical	Input File Name:	District Support Services Bld - 16041.xml

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL \	/ENTILATION	AND REH	IEAT (Add	pted froi	m 2013-N	RCC-MCI	H-03-	E)									Conf	rmed
		1. DESIGN	AIR FLOW	S						2.	VENTILATI	ON (§ 120	.1)					
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Pass	Fail
1-Training	HP-13	1,400	NA	NA	NA	NA	N	HP-13	960	0.38	48	7.5	360	365	NA	Υ		
2- Hall/Bath/Storage	HP-219	718	NA	NA	NA	NA	N	HP-219	846	0.15	8	15.0	127	127	NA	N		
3-Office	HP-219	682	NA	NA	NA	NA	N	HP-219	803	0.15	8	15.0	120	120	NA	N		
4-Conference	HP-339	542	NA	NA	NA	NA	N	HP-339	271	0.50	18	7.5	136	136	NA	N		
								TOTAL	2,880		82		743	748	NA			
																	To 4 44	

B. ZONAL SYSTEM AN	ID TERMINAL UNI	T SUM	MARY										§ 140	.4
1.	2.	3.		l.	5.	6.		7.			8.		Confi	irmed
Custom ID	ystem ID System Type ning5-TRM Uncontrolled	0.5		Capacity tuh)	Economizer	Zone Name	А	irflow (cfn	n)	Fan			P	77
System ID	System Type	Qty	Heating	Cooling	Economizer	Zone Name	Design	Min.	Min. Ratio	ВНР	Cycles	ECM Motor	Pass	Fail
Training5-TRM	Uncontrolled	1	NA	NA	NA	1-Training	1400	NA	NA	NA	NA			
Office29-TRM	Uncontrolled	1	NA	NA	NA	3-Office	682	NA	NA	NA	NA			
Hall/Bath/Storage21- TRM	Uncontrolled	1	NA	NA	NA	2-Hall/Bath/Storage	718	NA	NA	NA	NA			
Conference41-TRM	Uncontrolled	1	NA	NA	NA	4-Conference	542	NA	NA	NA	NA			

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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	District Support Services Bld - 16041.xml

C. EXHAUST FAN SUMMARY This Section Does Not Apply

D. DHW EQUIPM	IENT SUMMA	ARY – (Adapte	d from	NRCC-PLB-01)						§ 110.3		Confi	rmed
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	1	
DHW Name	Fuel	Туре	Qty	, , , , , , , , , , , , , , , , , , ,	Fail								
Electric Storage2	Electricity	Storage	1	Nonrecirculating	13	EF: 0.867	0	NA	10	0	NA		
		•											

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply
F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

G. MECHAN	ICAL HV	AC ACCE	PTANCE .	TFSTS &	FORMS /	Adanted	from 2	013-NRC	C-MCH-0	1_F)									§ RA	
Declaration o	f Require										Retain cop	oies and v	erify forn	ns are con	npleted ar	nd signed	to post in	field for	Ĺ	
Test Descri	iption	MCH-02A	МСН-03А	MCH-04A	МСН-05А	MCH-06A	MCH-07A	MCH-08A	МСН-09А	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	МСН-16А	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	Fail
Res DHW1 - SHW	1				1											1	ı			
HP-13	1	Х	Х		Х	Х														
HP-219	1	Х	Х																	

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

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Project Name	:	Distric	t Support	Services	Building					N	RCC-PRF-0	1-E	Page	16 of 17								
Project Addre	ess:	10840	Gilmore	Way Gras	s Valley					Ca	alculation (Date/Time	17:0	17:04, Tue, Apr 05, 2016								
Compliance S	cope:	NewEr	nvelopeA	ndMechai	nical					In	put File Na	ıme:	Distr	ict Suppo	rt Service	s Bld - 16	041.xml					
G. MECHAN	ICAL HVA	AC ACCE	PTANCE '	TESTS &	FORMS (Adapted	from 20	013-NRC	С-МСН-0	1-E)									§ RA	4		
Declaration o Inspector to v	-	d Accepta	nce Cert	ificates (N	IRCA) – A	cceptance	Certifica	tes that n	nay be sub	mitted.	(Retain cop	oies and ve	rify form	ns are con	npleted a	nd signed	to post in	field for	Field			
Test Description		MCH-02A	МСН-03А	MCH-04A	MCH-05A	МСН-06А	MCH-07A	MCH-08A	МСН-09А	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confi	írme		
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	rall		
HP-339	1	х	Х																t_{\Box}			

This Section Does Not Apply

Project Name:

ACC-PRF-LII-DETAILS -SECTION START-	
IDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) § 140.6	
is Section Does Not Apply	
INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	§ 130.1
is Section Does Not Apply	
TAILORED METHOD LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
is Section Does Not Apply	
GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)	§ 140.6-D
is Section Does Not Apply	
GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)	§ 140.6(c) 3H

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

District Support Services Building

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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:		
F. ROOM CAVITY RAT	IO (Adapted from NRCC-LTI-04-E)			
This Section Does Not A	pply			
G. ADDITIONAL "USE	IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)			
This Section Does Not A	pply			
H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)			1	§ 130.4
	The state of the s		'	3 200

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

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ENERGY & MECHANICAL CONSULTANTS 547 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (530) 265-2273

BL SERVICE S R SUPPO DISTRICT 10840 GRAS GVS Revisions: No. Date: By: Description:

Sheet Number