Marion County Middle School Addition & Renovation Lebanon, Kentucky

for the

Marion County Board of Education 755 East Main Street Lebanon, Kentucky 40033 p 270-692-3721

BG # 19-363 RTA # 1928

rosstarrant architects

enhancing education through great design

STRUCTURAL ENGINEER:

M.E.P. ENGINEER:

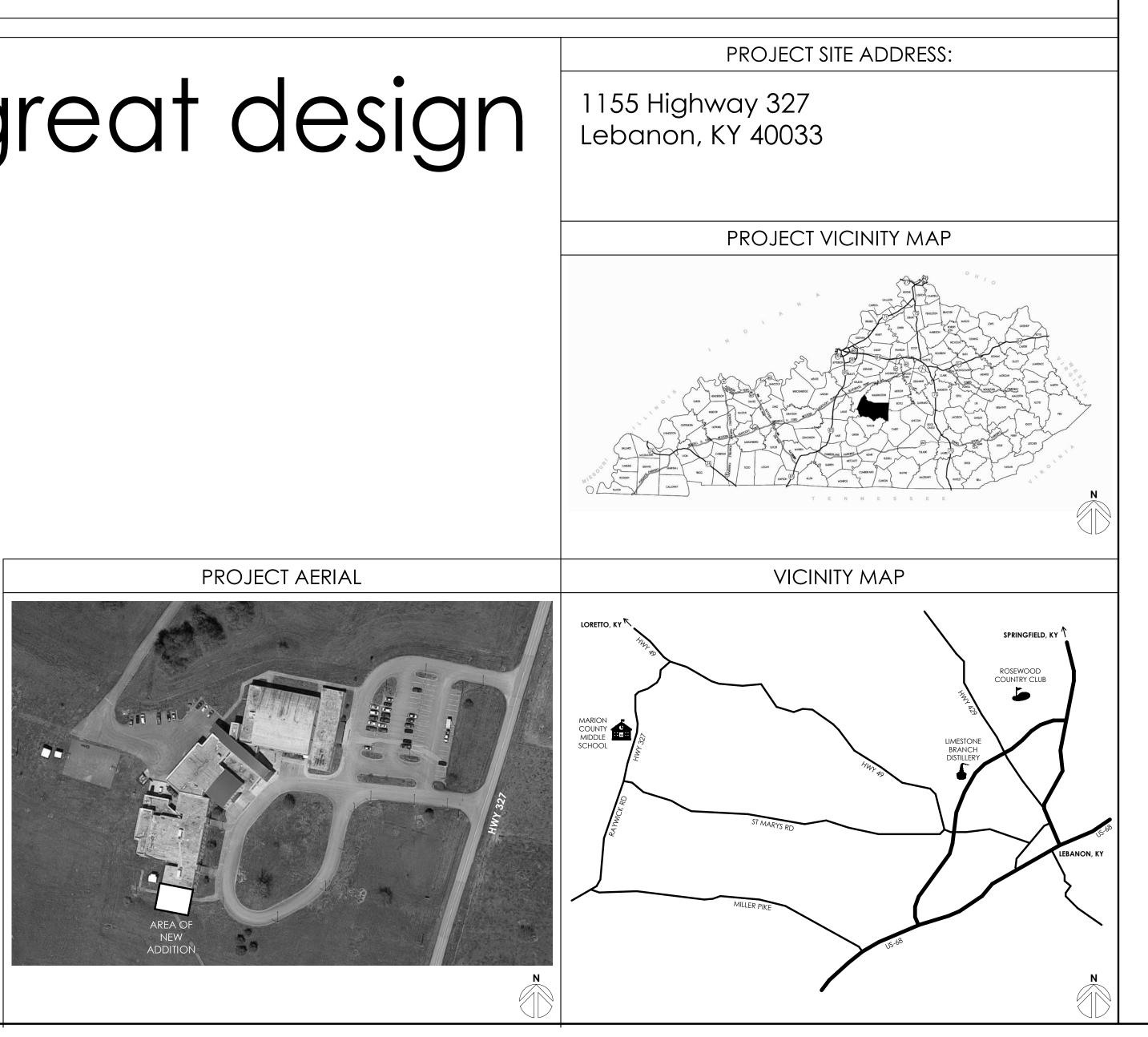
HARDWARE CONSULTANT:

STRUCTURAL DESIGN GROUP, INC. 220 Great Circle Road, Suite 106 Nashville, Tennessee 37228 p 615.255.5537

CMTA, INC. 2429 Members Way p 859.253.0892

CALVERT INDEPENDENT HARDWARE SPECIFICATIONS, LLC 307 Oakwood Circle Vine Grove, Kentucky 40175 p 502.930.2039

Lexington, Kentucky 40504

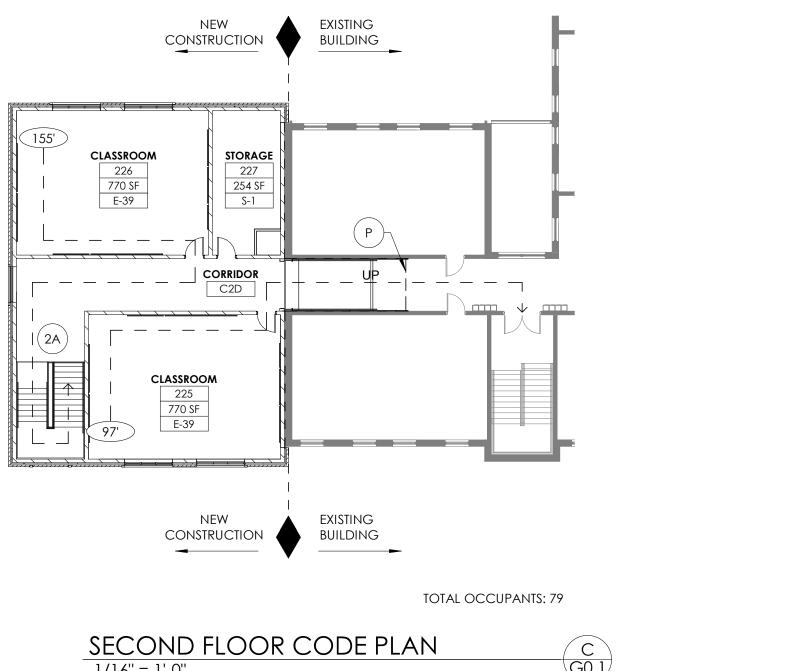


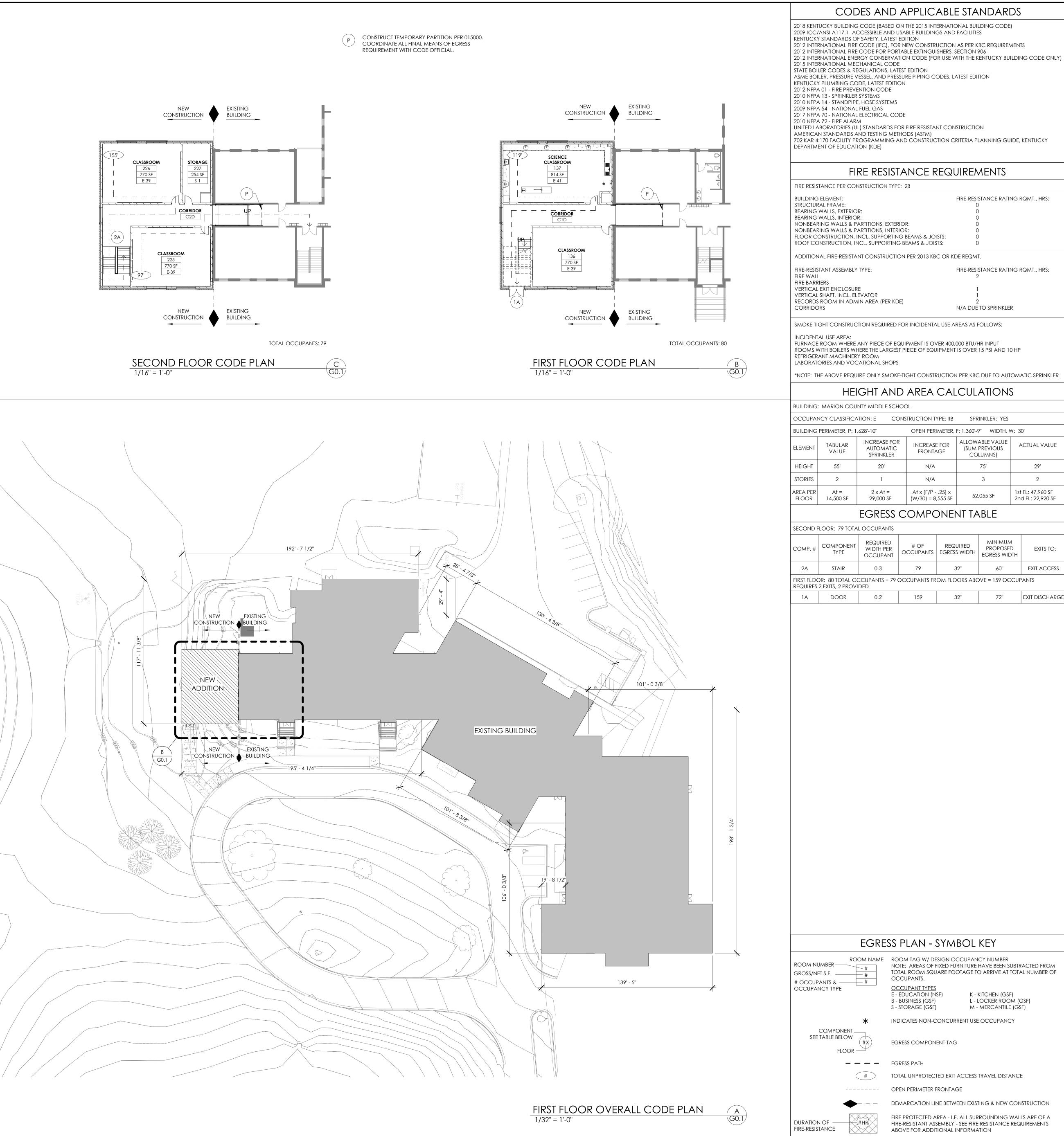
| 331.0 | SIL SUK VLI |
|-----------------------|----------------------|
| | |
| SITE | |
| SD0.1 | EROSION PROTECTION |
| | PLAN |
| SD0.2 | SITE DEMOLITION PL |
| SD1.1 | SITE DEVELOPMENT |
| SD2.1 | SITE GRADING PLAN |
| SD2.2 | SITE DRAINAGE PLAI |
| SD3.1 | SITE DETAILS |
| | |
| STRUCTURA | ۹L |
| SO.1 | STRUCTURAL NOTES |
| S0.2 | STRUCTURAL NOTES |
| S0.3 | STRUCTURAL QUALIT |
| S0.4 | WIND PRESSURE DIA |
| S0.5 | NOTES & SCHEDULES |
| S1.1 | FOUNDATION PLAN |
| S1.2 | SECOND FLOOR FRA |
| S1.3 | ROOF FRAMING PLA |
| S2.1 | FOUNDATION SECTION |
| S2.2 | FOUNDATION SECTION |
| \$3.1 | MASONRY SECTION |
| S3.2 | MASONRY SECTION |
| \$3.3 | MASONRY SECTION |
| S4.1 | FRAMING SECTIONS |
| S4.2 | FRAMING SECTIONS |
| \$5.1 | ROOF FRAMING SEC |
| \$5.2 | ROOF FRAMING SEC |
| 0012 | |
| DEMOLITIC |)N |
| D1.1 | DEMOLITION PLANS |
| | |
| ARCHITEC ⁻ | TURAI |
| A0.1 | GENERAL ARCHITEC |
| A1.1 | FLOOR PLANS |
| A2.0 | FLOOR PLANS FF&E |
| A3.1 | ROOF PLAN |
| A4.1 | BUILDING ELEVATION |
| A5.1 | BUILDING & WALL SE |
| A5.2 | WALL SECTIONS |
| A6.1 | DOORS AND FRAME |
| A7.1 | REFLECTED CEILING |
| , | |
| SITE UTILITY | |
| SU-1.0 | SITE UTILITY DEMOLIT |
| SU-2.0 | SITE UTILITY PLAN |
| SU-3.0 | SITE UTILITY DETAILS |
| 30 0.0 | |
| FIRE PROTE | CTION |
| FP-1.0 | FIRE PROTECTION LE |
| FP-2.0 | FIRE PROTECTION PL |
| | |
| PLUMBING | |
| P-1.0 | PLUMBING LEGEND |
| P-2.0 | FIRST FLOOR PLUMB |
| P-2.0 | SECOND FLOOR PLUMB |
| P-3.0 | PLUMBING RISER |
| г- э. U | LOIVIDIING KIJEK |
| | ~ ^ 1 |
| | |
| M-1.0 | |
| M-2.0 | |
| M-3.0 | HYDRONICS PLAN - |
| M-3.1 | HYDRONICS PLAN - |
| M-4.0 | MECHANICAL DETA |
| M-5.0 | MECHANICAL PIPIN |
| M-6.0 | MECHANICAL SCHE |
| | |
| ELECTRICA | |
| E-1.0 | ELECTRICAL LEGENE |
| E-2.0 | ELECTRICAL DEMOL |
| E-3.0 | LIGHTING PLANS |
| E-3.1 | POWER AND SYSTEM |
| E-4.0 | |
| L 1.0 | ELECTRICAL DETAILS |
| | |

101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 www.rosstarrant.com

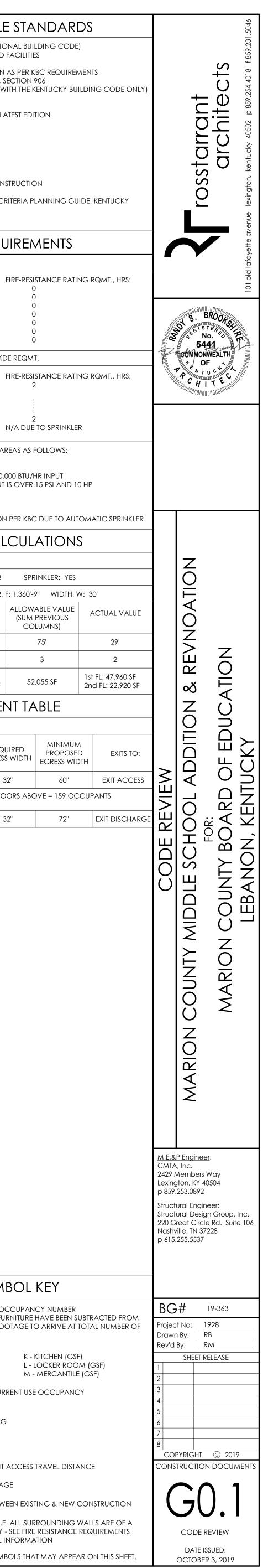
| | INDEX OF DRAWINGS | | | | |
|--------------------------------|--|-------------------|---|------------------------|--|
| GENERAL G0.0 G0.1 | COVER SHEET CODE REVIEW | | | | 4.4018 |
| SURVEY SS1.0 | SITE SURVEY | | + | ects | 02 p 859.254.4018 |
| SITE SD0.1 SD0.2 | EROSION PROTECTION AND SEDIMENT CONTROL PLAN SITE DEMOLITION PLAN | | ran | chit(| 101 old lafayette avenue lexington, kentucky 40502 |
| SD1.1 SD2.1 | SITE DEVELOPMENT PLAN SITE GRADING PLAN | | g | 2 U U | on, ke |
| SD2.2 SD3.1 | SITE DRAINAGE PLAN SITE DETAILS | | osstai | 0 | lexingt |
| STRUCTURA | L | | Õ | | enue |
| SO.1 SO.2 | STRUCTURAL NOTES STRUCTURAL NOTES CONTINUED | | | | ette av |
| S0.3 S0.4 | STRUCTURAL QUALITY ASSURANCE PLAN WIND PRESSURE DIAGRAM PLAN | | | 7 | lafaye |
| SO.5 S1.1 | NOTES & SCHEDULES FOUNDATION PLAN | | | | 01 old |
| \$1.2 \$1.3 | SECOND FLOOR FRAMING PLAN ROOF FRAMING PLAN | | | | - |
| \$2.1 \$2.2 | FOUNDATION SECTIONS AND DETAILS FOUNDATION SECTIONS AND DETAILS | | | | |
| \$3.1 \$3.2 | MASONRY SECTIONS AND DETAILS MASONRY SECTIONS AND DETAILS | | | | |
| \$3.3 \$4.1 | MASONRY SECTIONS AND DETAILS FRAMING SECTIONS AND DETAILS FRAMING SECTIONS AND DETAILS | | | | |
| \$4.2 \$5.1 \$5.2 | ROOF FRAMING SECTIONS AND DETAILS ROOF FRAMING SECTIONS AND DETAILS | | | | |
| DEMOLITIO D1.1 | n Demolition plans | | | | |
| ARCHITECT A0.1 | URAL GENERAL ARCHITECTURAL DETAILS | | | | |
| A1.1 A2.0 | FLOOR PLANS FLOOR PLANS FF&E | | | | |
| A3.1 A4.1 | ROOF PLAN BUILDING ELEVATIONS | | | | |
| A5.1 A5.2 | BUILDING & WALL SECTIONS WALL SECTIONS | | | | |
| A6.1 A7.1 | DOORS AND FRAME SCHEDULE REFLECTED CEILING PLAN(S) | | | | |
| SITE UTILITY SU-1.0 | SITE UTILITY DEMOLITION PLAN | | | | |
| SU-2.0 SU-3.0 | SITE UTILITY PLAN SITE UTILITY PLAN SITE UTILITY DETAILS | | 7 | | |
| FIRE PROTE FP-1.0 FP-2.0 | CTION FIRE PROTECTION LEGEND FIRE PROTECTION PLAN | | REVNOATION | | |
| PLUMBING | | | AC | | |
| P-1.0 P-2.0 | PLUMBING LEGEND FIRST FLOOR PLUMBING PLAN | | Ň | | |
| P-2.1 P-3.0 | SECOND FLOOR PLUMBING PLAN PLUMBING RISER | | N Ш | Z | |
| MECHANIC M-1.0 | AL MECHANICAL LEGEND | | | E | |
| M-2.0 M-3.0 | AIR DISTRIBUTION PLAN HYDRONICS PLAN - FIRST FLOOR | | & Z | UCATI | |
| M-3.1 M-4.0 | HYDRONICS PLAN - SECOND FLOOR MECHANICAL DETAILS | | NO | S | |
| M-5.0 M-6.0 | MECHANICAL PIPING SCHEMATICS MECHANICAL SCHEDULES | | | ЕDI | X |
| ELECTRICA E-1.0 E-2.0 | ELECTRICAL LEGEND AND SCHEDULES ELECTRICAL DEMOLITION PLANS | H | ADDI | СF | UCI |
| E-3.0 E-3.1 | LIGHTING PLANS POWER AND SYSTEMS PLAN | Ψ | | 2 2 2 | NT |
| E-4.0 | ELECTRICAL DETAILS | ER SH | | N N | ХП |
| | | ΎΕ Γ | ОH ОН | $\frac{B}{O}$ | Ň |
| | | $\langle \rangle$ | SC | <u> </u> | \overline{O} |
| | | Ŭ | Щ | UNT | ANC |
| | | | \Box | | ΞB |
| | | | | Ŭ | |
| | | | JNTY MIDD | Z | |
| | | | ITΥ | <u>O</u> | |
| | | | N N | MARION | |
| | | | Ō | ۲ ۲ | |
| | | | \bigcirc | | |
| | | | Z | | |
| | | | SIC | | |
| | | | MARION | | |
| | | | 2 | | |
| | | | | | |
| | | CMTA 2429 N | <u>P Engineer</u> ., Inc. Members W gton, KY 40. | /ay | |
| | | p 859. | 253.0892 | | |
| | | Struct | <u>ural Engine</u> ural Desigr reat Circle | Group, | |
| | | Nashv | ille, TN 372 255.5537 | | |
| | | | | | |
| | | | | | |
| | | BG Projec | | 9-363 28 | |
| | | Drawr Rev'd | n By: RE | 3 M | |
| | | 1 2 3 | | , WL | |
| | | 4 5 | | | |
| | | 6 7 8 | | | |
| | | | PYRIGHT TRUCTION | © 201 DOCU <i>I</i> | |
| | | (| G(|) (|) |
| | | | COVER | | |
| | | | DATE ISS OCTOBER | | |

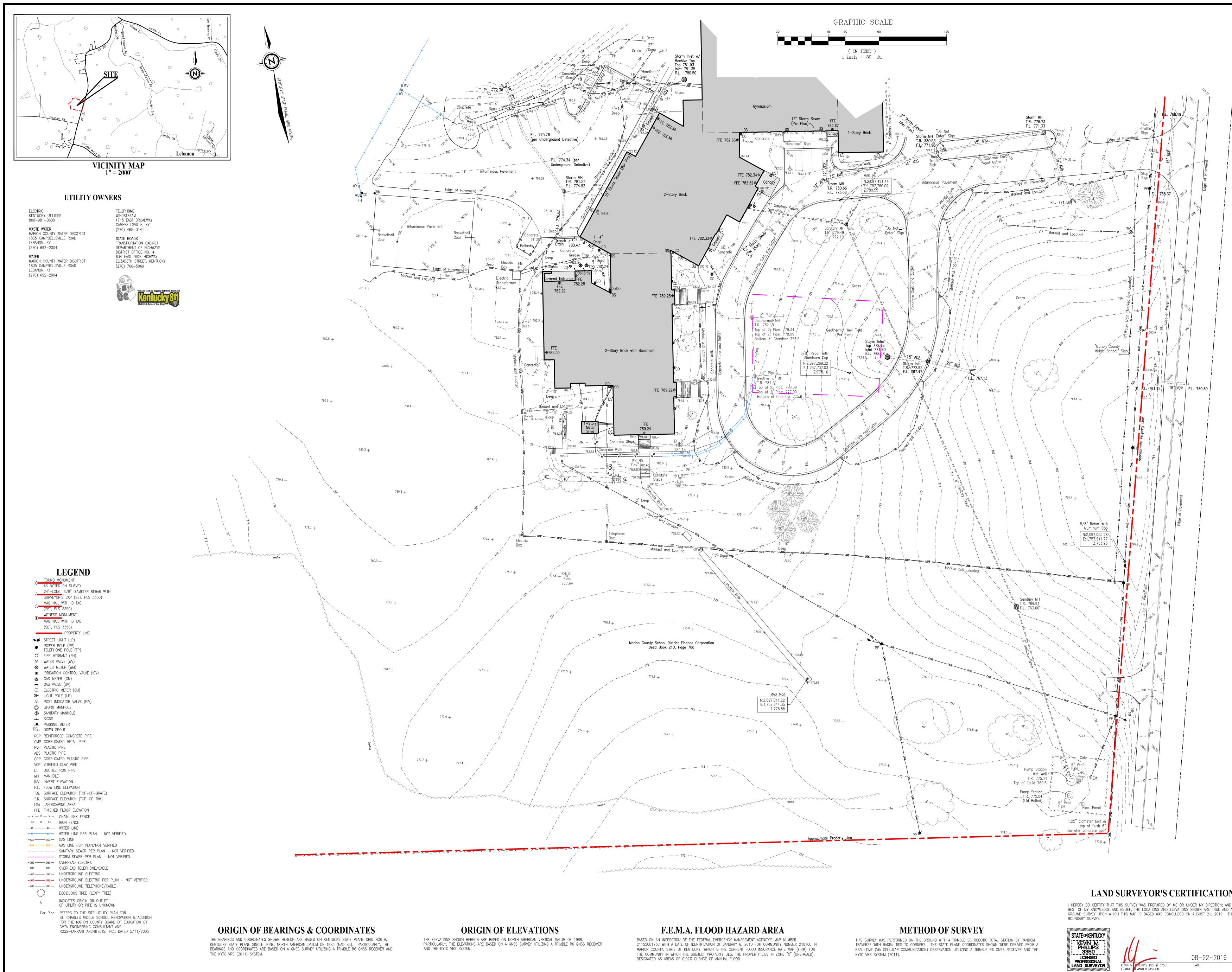
| REVISIONS | | | | | | | | |
|-----------|------|-------------|--|--|--|--|--|--|
| # | DATE | DESCRIPTION | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



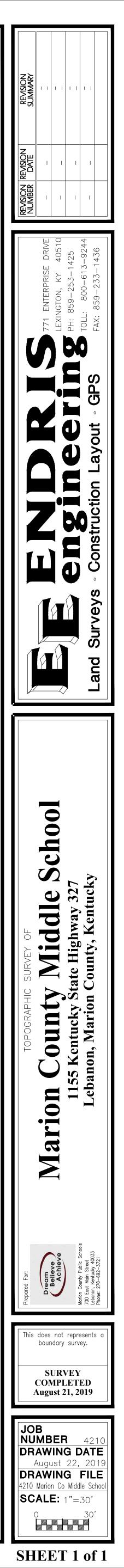


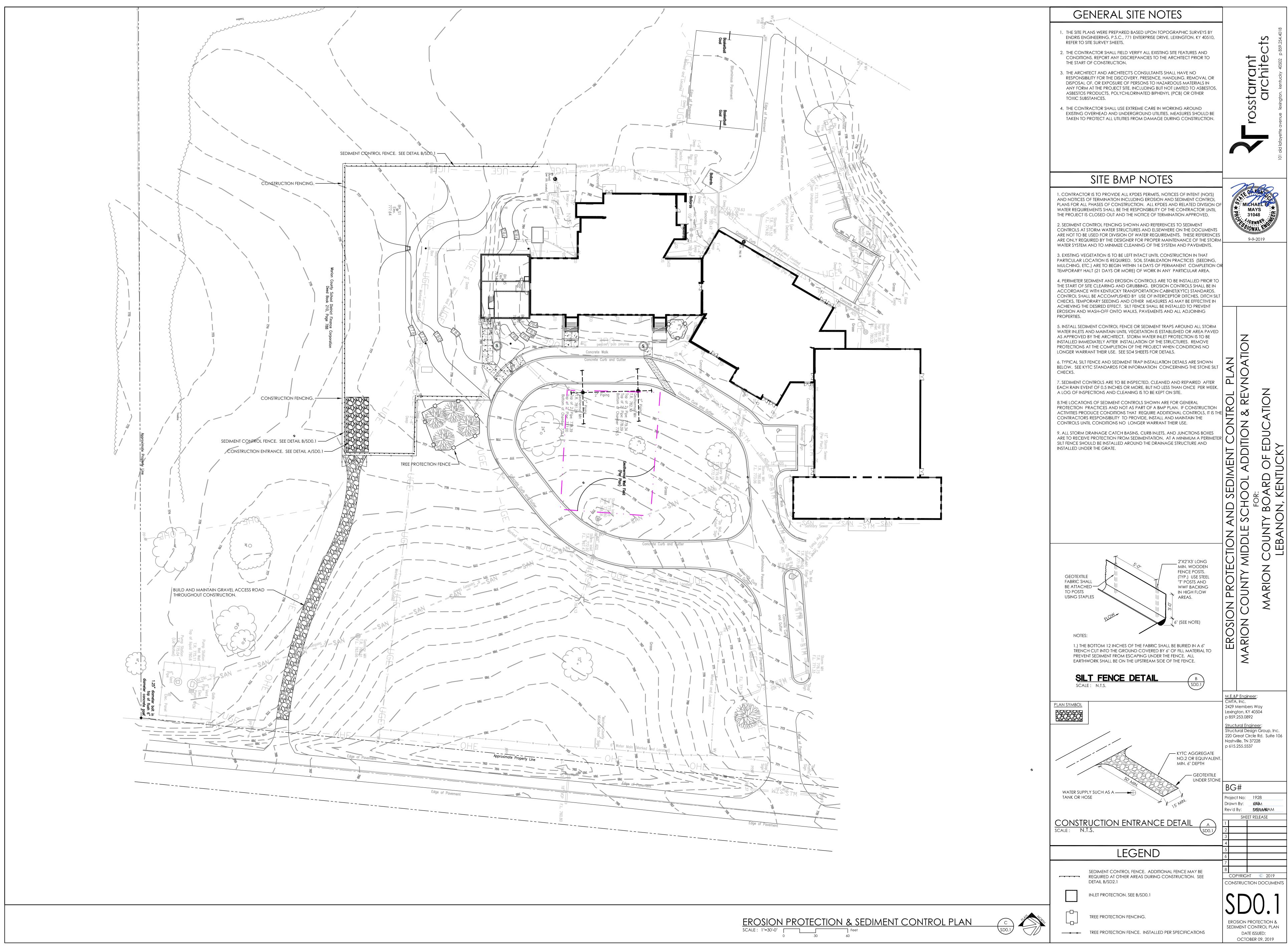
* SEE A0.1 SHEET FOR ADDITIONAL FIRE-RESISTANCE SYMBOLS THAT MAY APPEAR ON THIS SHEET.

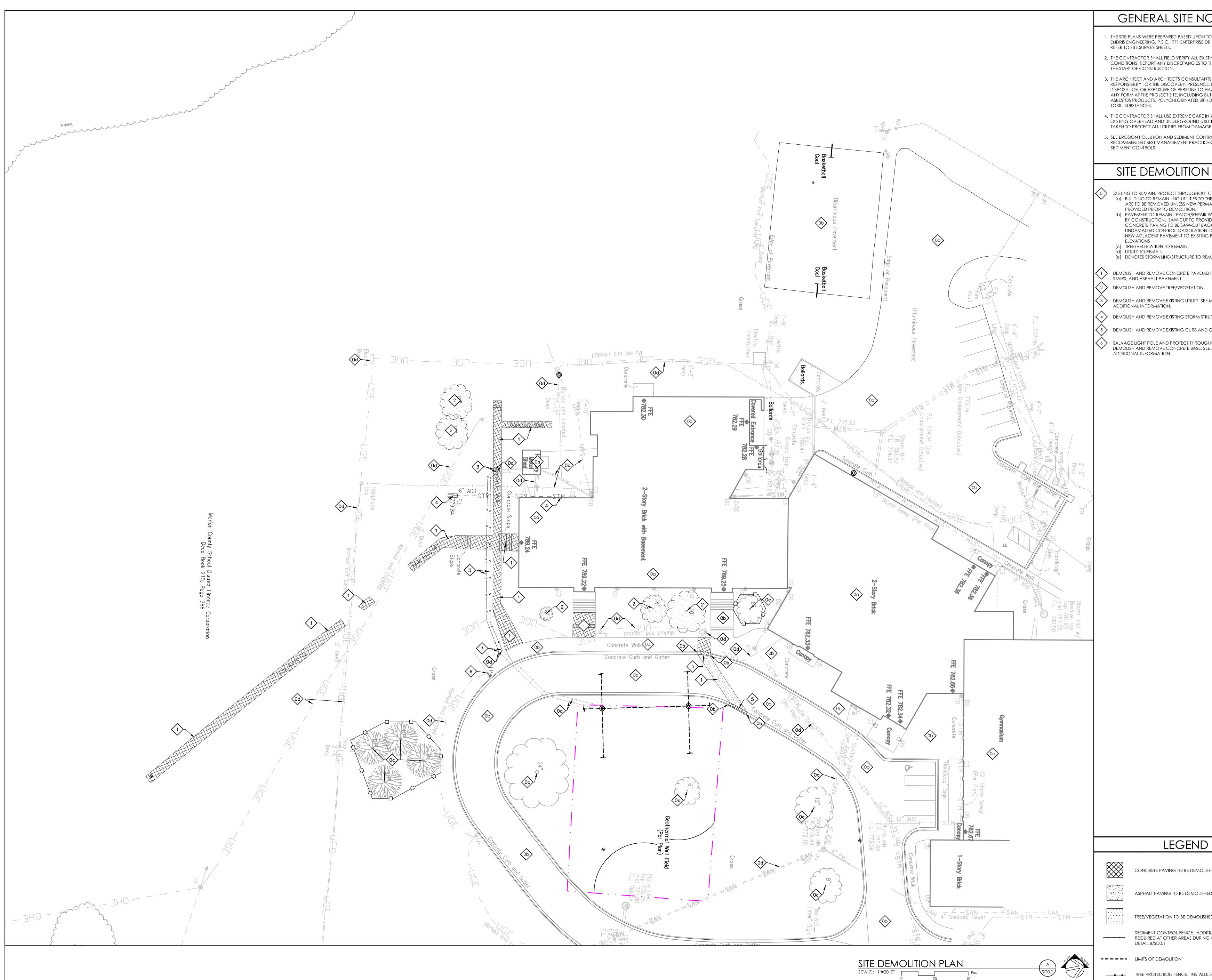




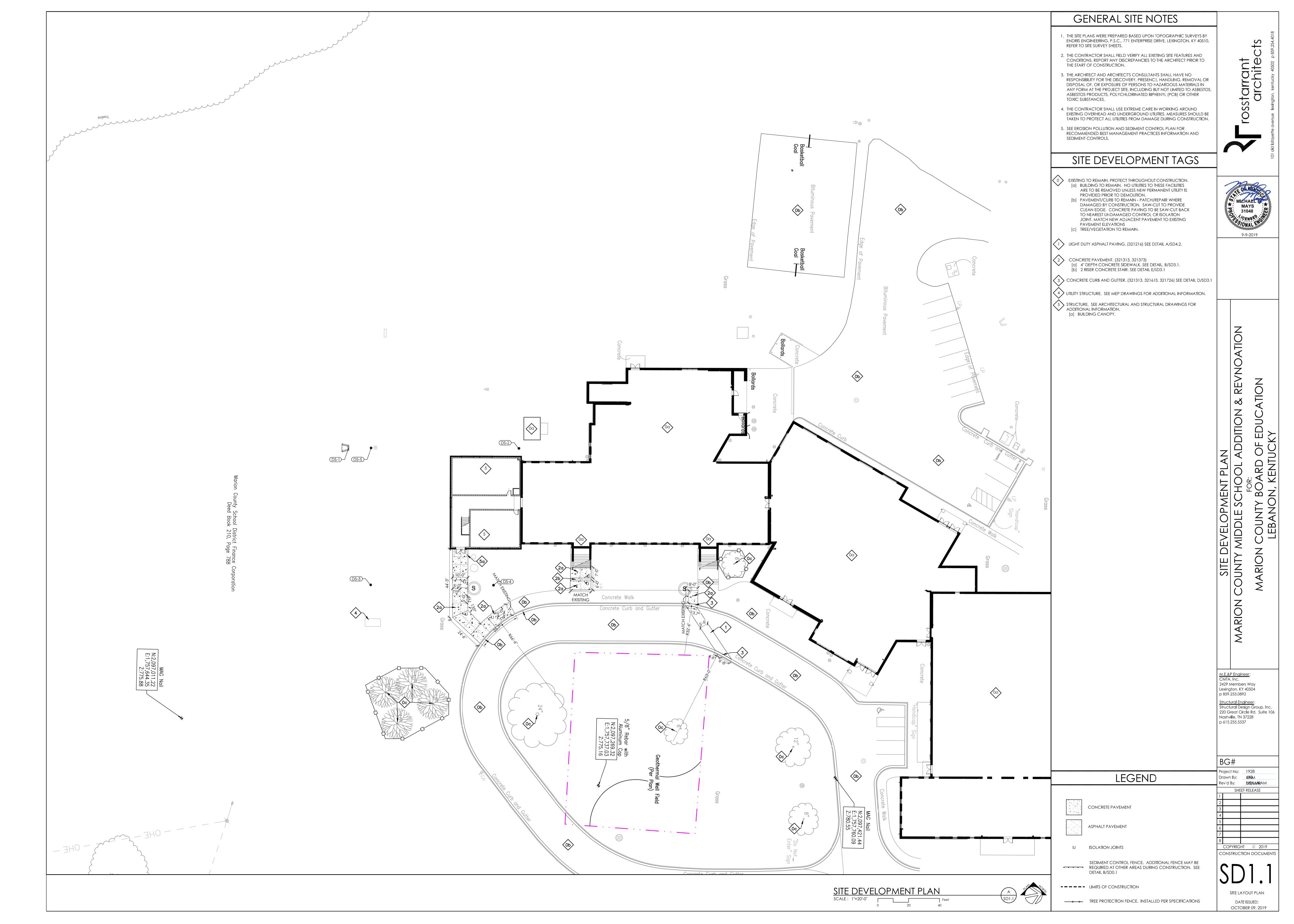
LAND SURVEYOR'S CERTIFICATION I HEREBY DO CERTIFY THAT THIS SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION; AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE LOCATIONS AND ELEVATIONS SHOWN ARE TRUE AND ACCURATE. THE GROUND SURVEY UPON WHICH THIS MAP IS BASED WAS CONCLUDED ON AUGUST 21, 2019. THIS IS NOT A

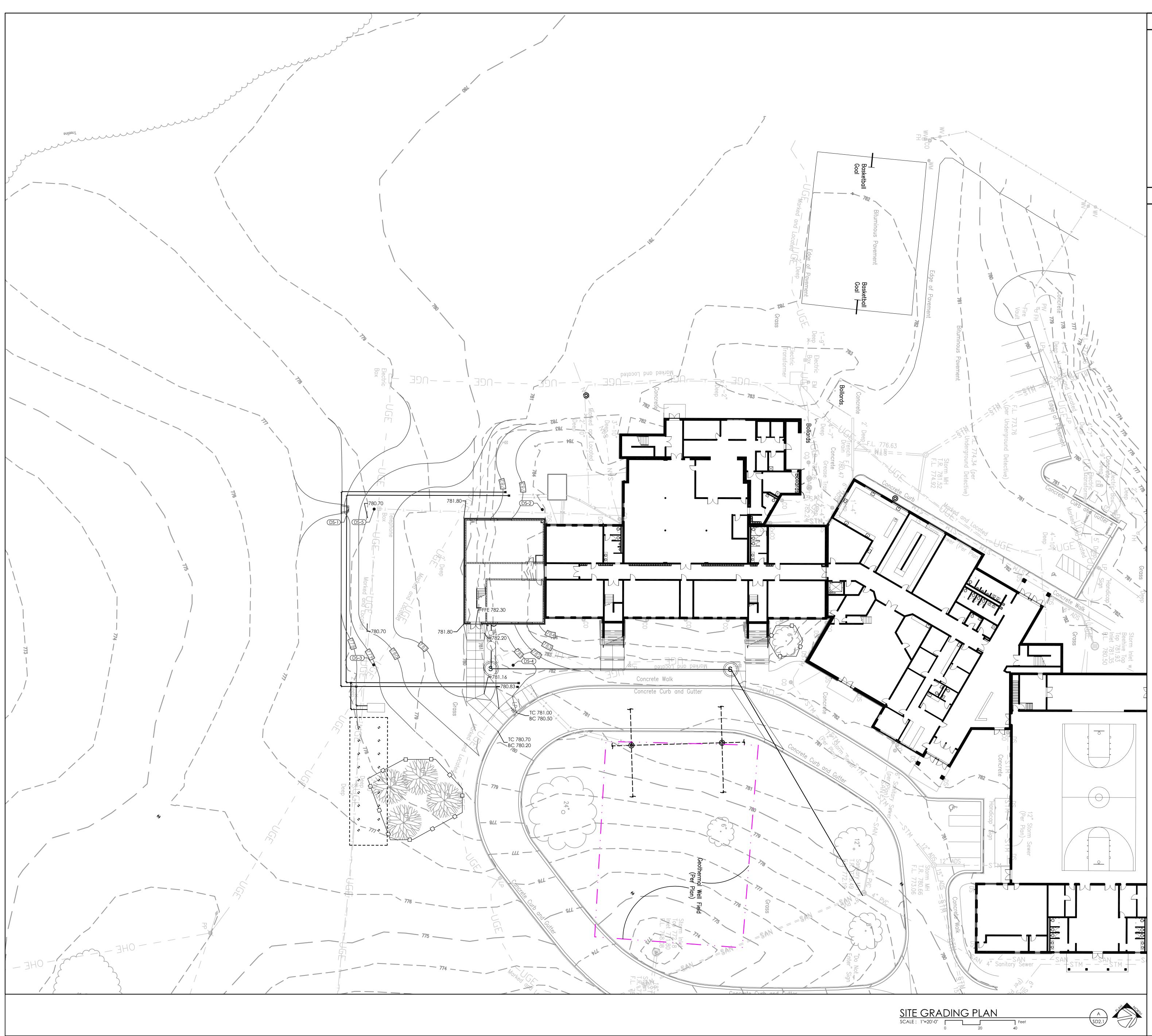






| OTES | |
|--|--|
| TOPOGRAPHIC SURVEYS BY DRIVE, LEXINGTON, KY 40510, STING SITE FEATURES AND THE ARCHITECT PRIOR TO ITS SHALL HAVE NO E, HANDLING, REMOVAL OR HAZARDOUS MATERIALS IN UT NOT LIMITED TO ASBESTOS, HENYL (PCB) OR OTHER N WORKING AROUND LITIES. MEASURES SHOULD BE GE DURING CONSTRUCTION. TROL PLAN FOR SES INFORMATION AND | Tosstarrant architects 101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 |
| CONSTRUCTION. HESE FACILITIES MANENT UTILITY IS WHERE DAMAGED /IDE CLEAN EDGE. CK TO NEAREST I JOINT. MATCH G PAVEMENT EMAIN ENT, CONCRETE | MICHAEL B MAYS 31048 CENSED S/ONAL 9-9-2019 |
| E MEP PLANS FOR RUCTURE/LINE. D GUTTER: SHOUT CONSTRUCTION. EE MEP DRAWINGS FOR | SITE DEMOLITION PLAN NOITON PLAN MARION COUNTY MIDDLE SCHOOL ADDITION & REVNOATION FOR: FOR: FOR: MARION COUNTY BOARD OF EDUCATION LEBANON, KENTUCKY LEBANON, KENTUCKY LEBANON, KENTUCKY LEBANON, KENTUCKY LEBANON, KENTUCKY |
|) Shed and removed. | BG# Project No: 1928 Drawn By: klkBM Rev'd By: DYSYMMKAM SHEET RELEASE 1 1 SHEET RELEASE 1 SHEET RELEASE 3 S 4 S |
| ED AND REMOVED. HED AND REMOVED. ITIONAL FENCE MAY BE G CONSTRUCTION. SEE | 6 7 8 COPYRIGHT © 2019 CONSTRUCTION DOCUMENTS STE DEMOLITION PLAN |
| ED PER SPECIFICATIONS | DATE ISSUED: OCTOBER 09, 2019 |





GENERAL SITE NOTES

- 1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY ENDRIS ENGINEERING, P.S.C., 771 ENTERPRISE DRIVE, LEXINGTON, KY 40510, REFER TO SITE SURVEY SHEETS.
- 2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- 3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- 4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- 5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE GRADING NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ACTUAL DEPTHS OF ALL EXISTING STORM DRAINS, GAS MAINS, WATER MAINS, AND PIPES TO ALL NEW CONNECTIONS AND CROSSINGS. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AREAS WHERE CONSTRUCTION OR GRADING MAY INTERFERE WITH SUCH LINES.

2. ANY DISCREPANCIES BETWEEN THIS GRADING PLAN AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION OF ANY SORT. FAILURE TO NOTIFY THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION SHALL IMPLY THE CONTRACTOR'S VERIFICATION OF AND ACCEPTANCE OF EXISTING SITE CONDITIONS. SAID FAILURE TO NOTIFY THE ARCHITECT IN WRITING SHALL IDENTIFY AND HOLD HARMLESS THE OWNER FROM ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR DUE TO DISCREPANCIES NOT REPORTED WHICH COULD HAVE BEEN DETECTED BY PRUDENT AND

REASONABLE OBSERVATION AND VERIFICATION BY THE CONTRACTOR. 3. ALL IMPERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM

4. ALL PERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF TWO PERCENT (2 %) AND A MAXIMUM SLOPE OF THIRTY-THREE PERCENT (33%) EXCEPT WHERE SHOWN.

5. SLOPE PERVIOUS SURFACES MIN. 5 % AND IMPERVIOUS SURFACES MIN. 1% AWAY FROM BUILDING FOUNDATIONS.

6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO POND IN CONSTRUCTION AREAS.

7. RELOCATE ALL BURIED UTILITIES THAT ARE IMPACTED BY ANY EARTHWORK. RELOCATED UTILITY LOCATIONS ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO STARTING WORK.

8. PROTECT AREAS TO BE SEEDED AS FOLLOWS: A) DITCHES AND DRAINAGE SWALES ARE TO RECEIVE HIGH-VELOCITY

EROSION-CONTROL BLANKETS. B) SLOPES 4:1 (H:V) OR GREATER ARE TO RECEIVE LONG-TERM EROSION-CONTROL BLANKETS.

- C) SLOPES BETWEEN 4:1 AND 6:1 (H:V) ARE TO RECEIVE SHORT-TERM EROSION CONTROL BLANKETS.
- D) SLOPES BELOW 6:1 (H:V) ARE TO RECEIVE STRAW MULCH PER THE SPECIFICATIONS. DO NOT USE HAY.

9. ANY AREAS DISTURBED DURING CONSTRUCTION ARE TO BE RECONDITIONED, SEEDED AND MULCHED PER THE SPECIFICATIONS. 10. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF THEIR

OF OPTIMUM MOISTURE CONTENT: A) UNDER FLOOR SLABS AND FOUNDATIONS ON STRUCTURAL FILL - 97% B) FILLS ON EXISTING SOILS, ROCK CUTS OR SHOT-ROCK FILL - 97% C) PAVED AREAS AND WALKS - 95%

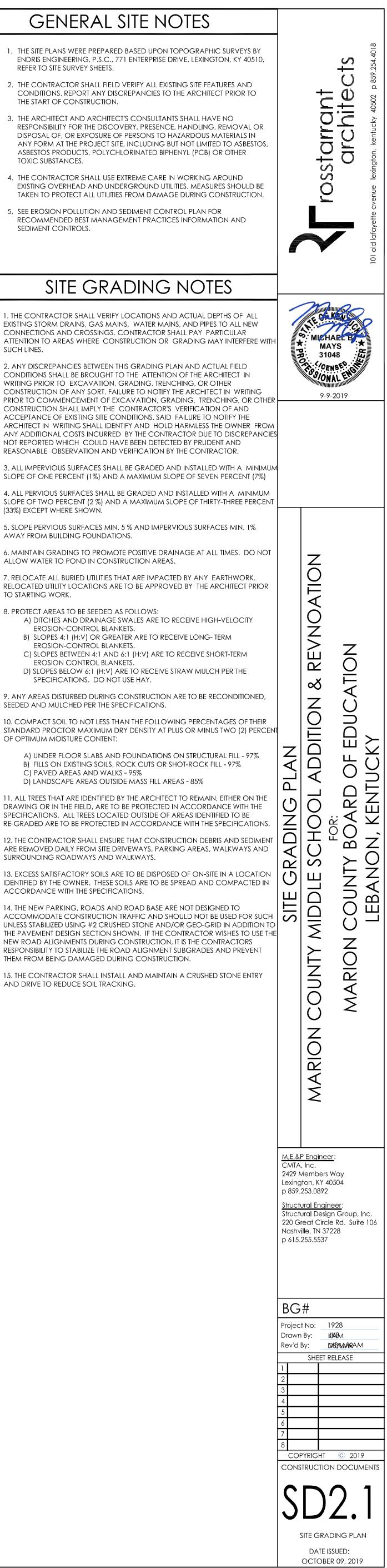
1. ALL TREES THAT ARE IDENTIFIED BY THE ARCHITECT TO REMAIN, EITHER ON THE DRAWING OR IN THE FIELD, ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TREES LOCATED OUTSIDE OF AREAS IDENTIFIED TO BE RE-GRADED ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS.

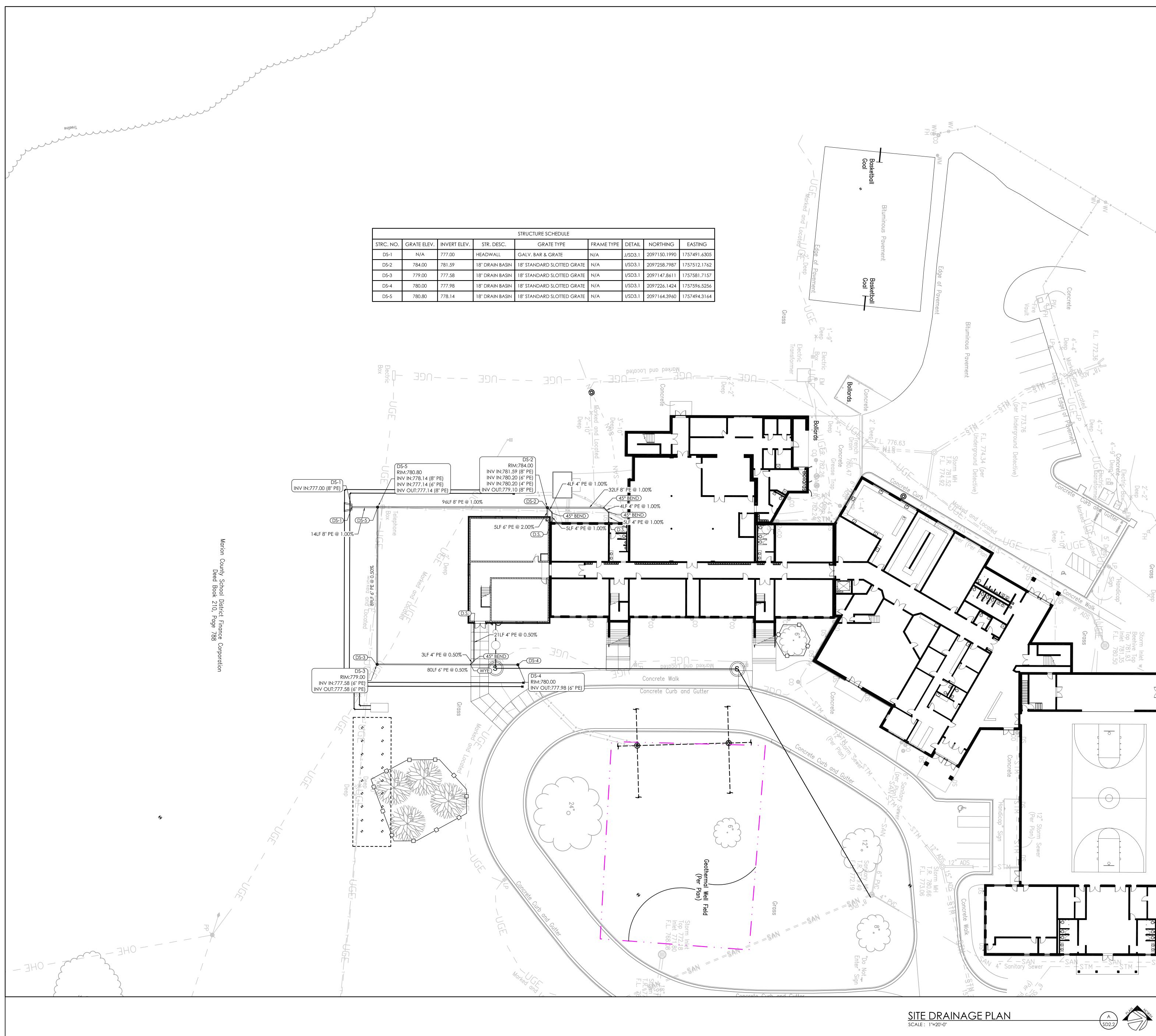
12. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND SEDIMENT ARE REMOVED DAILY FROM SITE DRIVEWAYS, PARKING AREAS, WALKWAYS AND SURROUNDING ROADWAYS AND WALKWAYS.

13. EXCESS SATISFACTORY SOILS ARE TO BE DISPOSED OF ON-SITE IN A LOCATION IDENTIFIED BY THE OWNER. THESE SOILS ARE TO BE SPREAD AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.

14. THE NEW PARKING, ROADS AND ROAD BASE ARE NOT DESIGNED TO ACCOMMODATE CONSTRUCTION TRAFFIC AND SHOULD NOT BE USED FOR SUCH \mid \checkmark UNLESS STABILIZED USING #2 CRUSHED STONE AND/OR GEO-GRID IN ADDITION TO THE PAVEMENT DESIGN SECTION SHOWN. IF THE CONTRACTOR WISHES TO USE THE NEW ROAD ALIGNMENTS DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO STABILIZE THE ROAD ALIGNMENT SUBGRADES AND PREVENT THEM FROM BEING DAMAGED DURING CONSTRUCTION.

15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A CRUSHED STONE ENTRY AND DRIVE TO REDUCE SOIL TRACKING.





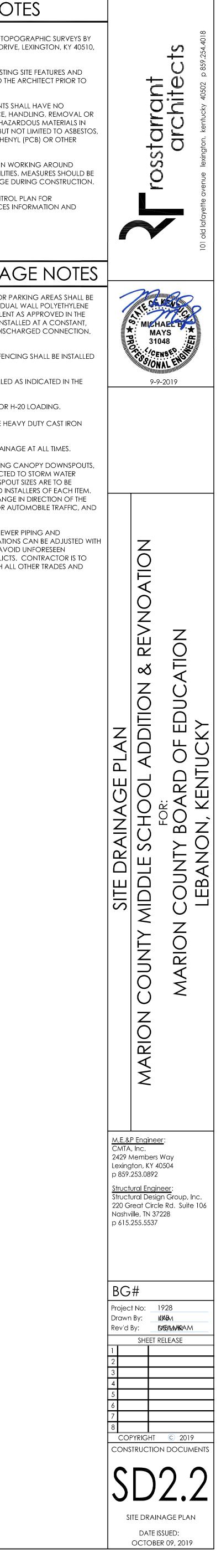
| | STRUCTURE SCHEDULE | | | | | | | |
|-----|--------------------|--------------|------------------|----------------------------|------------|---------|--------------|--------------|
| NO. | GRATE ELEV. | INVERT ELEV. | STR. DESC. | GRATE TYPE | FRAME TYPE | DETAIL | NORTHING | EASTING |
| 1 | N/A | 777.00 | HEADWALL | GALV. BAR & GRATE | N/A | J/SD3.1 | 2097150.1990 | 1757491.6305 |
| 2 | 784.00 | 781.59 | 18'' DRAIN BASIN | 18" STANDARD SLOTTED GRATE | N/A | I/SD3.1 | 2097258.7987 | 1757512.1762 |
| 3 | 779.00 | 777.58 | 18'' DRAIN BASIN | 18" STANDARD SLOTTED GRATE | N/A | I/SD3.1 | 2097147.8611 | 1757581.7157 |
| 4 | 780.00 | 777.98 | 18" DRAIN BASIN | 18" STANDARD SLOTTED GRATE | N/A | I/SD3.1 | 2097226.1424 | 1757596.5256 |
| 5 | 780.80 | 778.14 | 18" DRAIN BASIN | 18" STANDARD SLOTTED GRATE | N/A | I/SD3.1 | 2097164.3960 | 1757494.3164 |

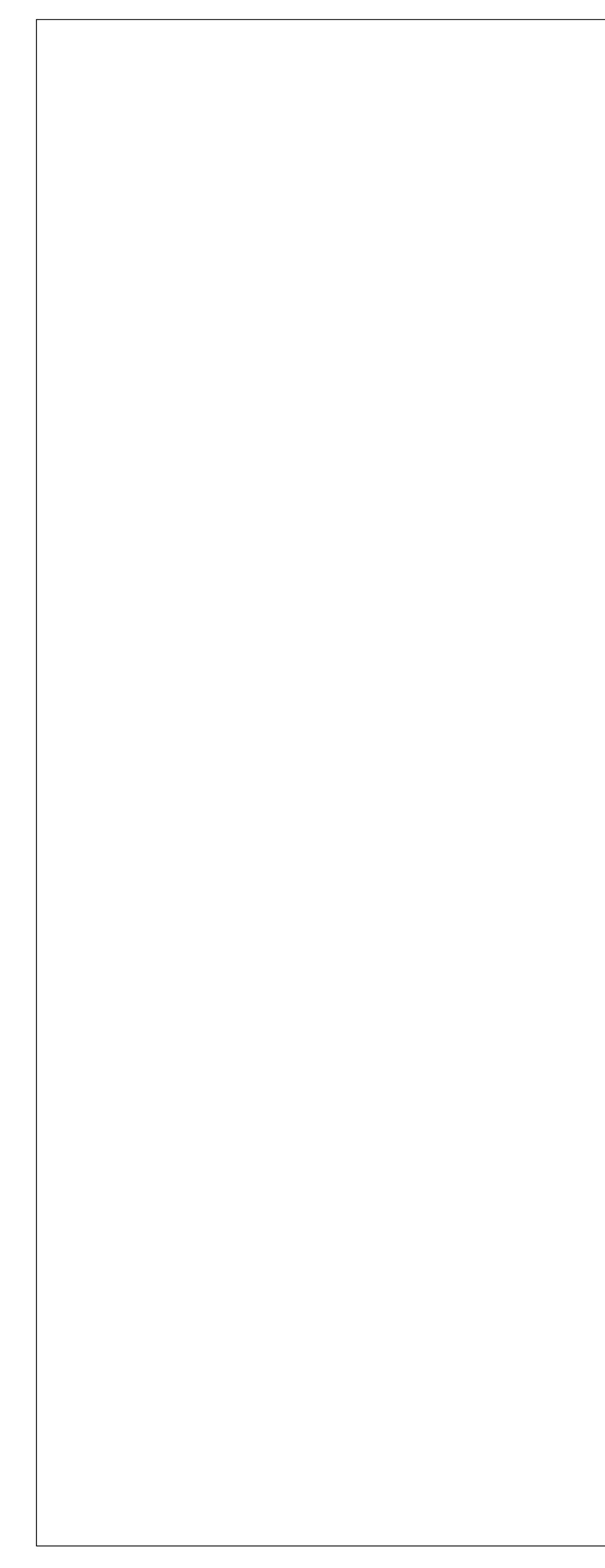
GENERAL SITE NOTES 1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY ENDRIS ENGINEERING, P.S.C., 771 ENTERPRISE DRIVE, LEXINGTON, KY 40510, REFER TO SITE SURVEY SHEETS.

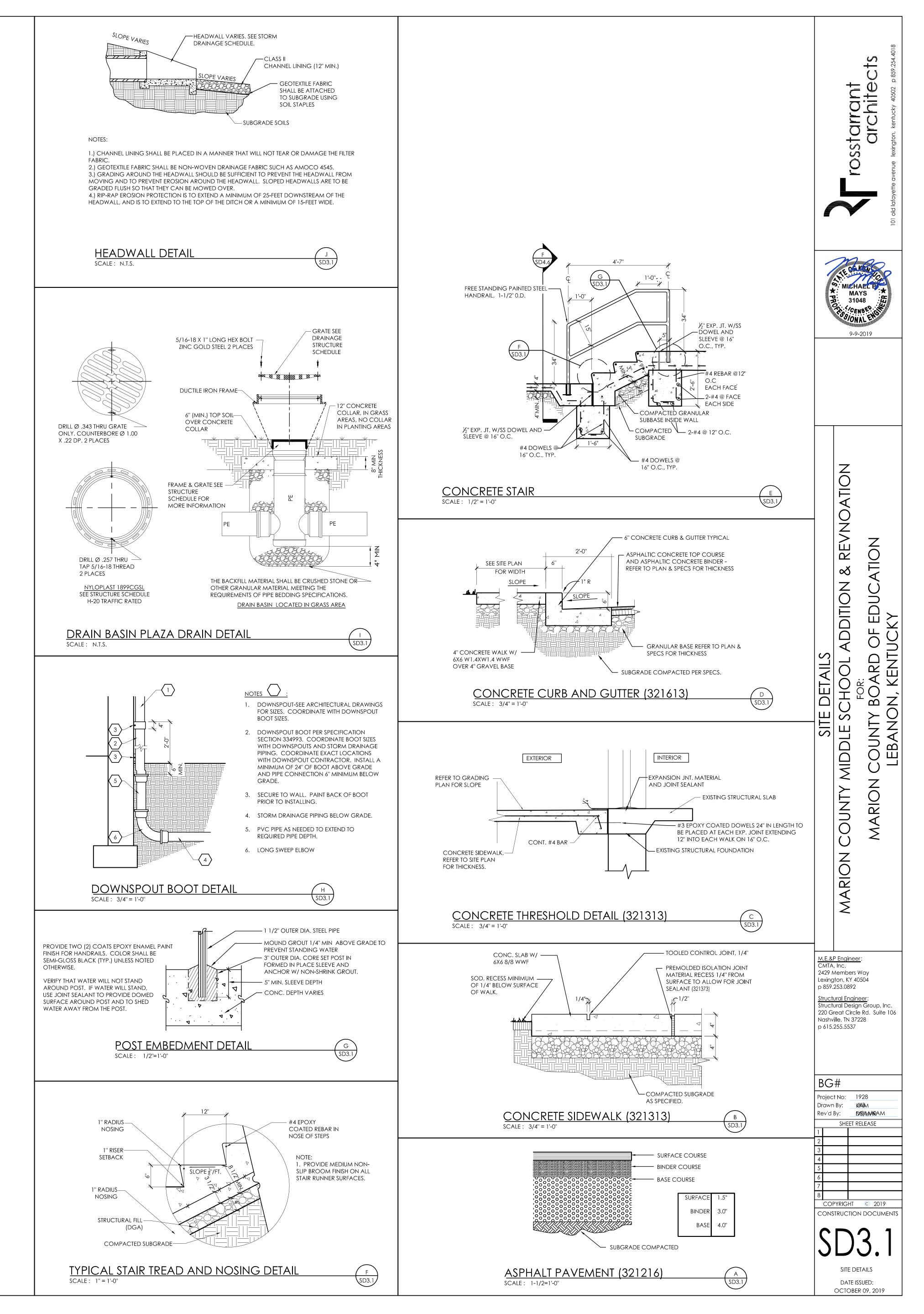
- 2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- 3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- 4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- 5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND sediment controls.

SITE STORM DRAINAGE NOTES

- DRAINAGE PIPE THAT CROSSES UNDER ROADS OR PARKING AREAS SHALL BE REINFORCED CONCRETE. ALL PE PIPE SHALL BE DUAL WALL POLYETHYLENE PIPE WITH SMOOTH INTERIOR WALL, OR EQUIVALENT AS APPROVED IN THE SPECIFICATIONS. ALL STORM PIPING SHALL BE INSTALLED AT A CONSTANT, POSITIVE SLOPE FROM INLET CONNECTION TO DISCHARGED CONNECTION. PIPE SLOPE IS TO BE 0.5% MINIMUM.
- SEDIMENT PROTECTION DEVICES, SUCH AS SILT FENCING SHALL BE INSTALLED IN AND/OR AROUND ALL STORM STRUCTURES.
- EROSION CONTROL BLANKETS ARE TO BE INSTALLED AS INDICATED IN THE SPECIFICATIONS.
- 4. ALL STORM STRUCTURES ARE TO BE DESIGNED FOR H-20 LOADING.
- ALL GRATES AND MANHOLE COVERS ARE TO BE HEAVY DUTY CAST IRON DESIGNED FOR H-20 LOADING.
- MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES.
- ALL ROOF DRAINS AND DOWNSPOUTS, INCLUDING CANOPY DOWNSPOUTS, ARE TO BE PIPED UNDERGROUND AND CONNECTED TO STORM WATER STRUCTURES. DOWNSPOUT BOOT AND DOWNSPOUT SIZES ARE TO BE COORDINATED WITH THE MANUFACTURERS AND INSTALLERS OF EACH ITEM. CLEANOUTS ARE TO BE LOCATED AT EACH CHANGE IN DIRECTION OF THE PIPING. ENSURE CLEANOUTS ARE DESIGNED FOR AUTOMOBILE TRAFFIC, AND ARE FLUSH WITH THE SURROUNDING SURFACES.
- THE LOCATIONS SHOWN FOR THE NEW STORM SEWER PIPING AND STRUCTURES ARE APPROXIMATE. ACTUAL LOCATIONS CAN BE ADJUSTED WITH ARCHITECTS WRITTEN APPROVAL IN ORDER TO AVOID UNFORESEEN CONDITIONS OR OTHER CONSTRUCTION CONFLICTS. CONTRACTOR IS TO COORDINATE STORM SEWER INSTALLATION WITH ALL OTHER TRADES AND WORK.







DESIGN CRITERIA

- 1. Building Code: 2018 Kentucky Building Code and ASCE 7-10 (except Chapter 14 and Appendix 11A)
- 1.1 Building Risk Category: III
- 2. Design Loads

| 2.1 | Uniform Floor Live Loads (reduced | per | Building |
|-----|---|------------------------|--------------------------|
| | Partitions General Ground Floor Areas Corridors: | | psf (exc psf |
| | Corridors Above 1st Floor Classrooms Stairs Mechanical Rooms | 80 50 100 125 | psf psf psf psf |

- 2.2 Concentrated Floor Live Loads (distributed over 2.5 ft x 2.5 ft. UNO) Schools 1,000 lbs
- 2.3 Roof Loads

| 2.3.1 | Uniform Roo [.] | f Live Load | 20 | psf | (r |
|-------|--------------------------|---|---|---|-----------------------------|
| 2.3.2 | Snow Loads: | Ground Snow = 15 Terrain Category Snow Exposure Fa Snow Load Import Thermal Factor: Flat-roof Snow L Rain-on-Snow Sur | / = C actor, ance Heate Unhea oad: | Ce Fact ed Sp ited Heat Unhe | = or oac Sp ced |
| | | | | | |

- 2.4 Wind Loads Basic Wind Speed V(ult)=120 mph; V(asd)= 93 mph Wind Exposure C Internal Pressure Coefficient = +/-0.18 (Enclosed Building) Directionality Factor, Kd = 0.85
- 2.5 Earthquake Loads
- Seismic Importance Factor, I = 1.25Mapped Spectral Response Accelerations, Ss and S1 = 0.19 and 0.103Site Class: C Spectral Response Coefficients, Sds and Sd1 = 0.152 and 0.117Seismic Design Category: B
- Structural Engineer is not responsible for the design of steel stairs, handrails, curtain wall/window wall systems, cold-formed steel framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Construction Documents.
- 4. No explicit provisions have been made for future building expansion.

GENERAL

- Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.
- Material, workmanship, and design shall conform to the referenced Building 2. Code.
- 3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
- 4. Contractor responsibilities include, but are not limited to, the following:
- 4.1 Structural Documents are being released prior to Documents by other disciplines (Architectural, Mechanical, etc.) Coordinate Structural Documents with other portions of the Construction Documents as they are released. Architect/Structural Engineer shall be notified of any discrepancy or omission.
- 4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing davits, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.
- 4.3 Equipment/Framing Verification
 - 4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.
 - 4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.
- 4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
- 4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.
- 4.6 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.

STRUCTURAL NOTES THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

- Code, UNO) cept when live load > 80 psf)
- reduced per Bldg. Code) drift loads per Code)
- 1.0 or, I = 1.1ces, Ct = 1.0spaces, Ct = 1.2ed Spaces, Pf = 16.6 psfted Spaces, Pf = 18.9 psf psf (where applicable)

GENERAL (cont.)

- 5. Existing and Unforeseen Conditions
 - 5.1 Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.
 - 5.2 Shop drawing submittals shall be based on field verified dimensions and conditions only. Contractor shall clearly show actual field dimensions on shop drawings.
 - 5.3 Existing dimensions, elevations, and other information shown in the Structural Drawings are based on the following Documents:
- SUBMITTALS
- 1. Shop Drawings and Submittals
 - 1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
 - 1.2 Electronic drawing files will not be provided to the Contractor. 1.3 Review of shop drawings will be for conformance with the Construction
 - Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.
- 2. Submittals
- 2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.
- 3. Deferred Submittals
 - 3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.
 - 3.2 Submittal documents for Deferred Submittals:
 - 3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
 - 3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.
- 3.3 The following shall be considered Deferred Submittals:
 - Steel Connections See "Structural Steel" Section
 - Steel Joists Cold-formed Exterior Steel Stud Framing
 - Rooftop Unit Anchorage
 - Steel Stairs and Handrails Slotted Channel Strut Framing (e.g. Unistrut)

FOUNDATION

- 1. Geotechnical Report: Solid Ground Engineering Report #19-0231, Dated August 15, 2019.
 - 1.1 It is the responsibility of the contractor to obtain a copy of the geotechnical report and comply with the recommendations found therein.
- 2. Building Pad Preparation
- 2.1 Strip vegetation and topsoil.
- 2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.
- 3. Soil Bearing Capacity: Isolated Footings 2,000 psf Continuous Footings 2,000 psf
- 4. Foundation Walls
 - 4.1 Lateral Pressures:
 - (at-rest): 65 pcf Equivalent Fluid Density Walls supported at top Walls free to displace at top (active): 40 pcf Equivalent Fluid Density
 - 4.2 Walls shall be backfilled with granular materials (See Specification)

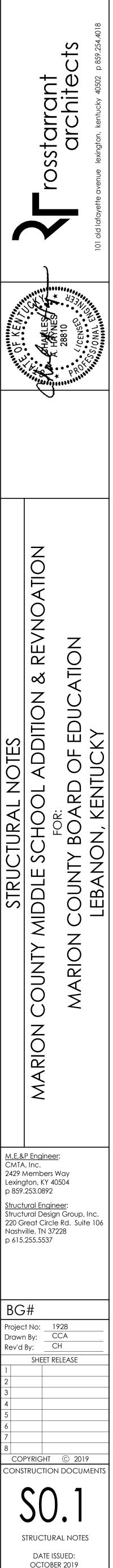
REINFORCEMENT

- 1. Reinforcing Bars: ASTM A615, Grade 60
 - 1.1 Reinforcing bars are not to be welded.
- 2. Welded Wire Reinforcement (WWR): ASTM A1064, 8" minimum side and end laps
- Reinforcement Placement (UNO)
- 3.1 Concrete Reinforcement Cover Below Grade: Unformed
 - clear clear Formed
- 3.2 Masonry reinforcing steel: Place in the center of CMU cells.
- 4. Reinforcement Splices
 - 4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.
 - 4.2 Splice Lengths (UNO) Concrete Reinforcement: See Concrete Lap Splice Tables in Drawings Masonry Reinforcement: See CMU Lap Splice Tables in Drawings
- 5. Deformed Bar Anchors (DBA): ASTM A496
 - 5.1 Deformed Bar Anchors shall conform to AWS D1.1, Type C studs with a minimum yield strength of 70 ksi and minimum tensile strength of 80 ksi.
 - 5.2 Deformed Bar Anchors shall be stud welded

STRUCTURAL NOTES **IS0.2** STRUCTURAL NOTES CONTINUED STRUCTURAL QUALITY ASSURANCE PLAN S0.3 WIND PRESSURE DIAGRAM PLAN S0.4

| S0.5NOTES & SCHEDULESS1.1FOUNDATION PLANS1.2SECOND FLOOR FRAMING PLANS1.3ROOF FRAMING PLANS2.1FOUNDATION SECTIONS AND DETAILSS2.2FOUNDATION SECTIONS AND DETAILSS3.1MASONRY SECTIONS AND DETAILSS3.2MASONRY SECTIONS AND DETAILSS3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILSS5.1ROOF FRAMING SECTIONS AND DETAILS | | |
|---|------|-----------------------------------|
| \$1.2SECOND FLOOR FRAMING PLAN\$1.3ROOF FRAMING PLAN\$2.1FOUNDATION SECTIONS AND DETAILS\$2.2FOUNDATION SECTIONS AND DETAILS\$3.1MASONRY SECTIONS AND DETAILS\$3.2MASONRY SECTIONS AND DETAILS\$3.3MASONRY SECTIONS AND DETAILS\$4.1FRAMING SECTIONS AND DETAILS\$4.2FRAMING SECTIONS AND DETAILS | S0.5 | NOTES & SCHEDULES |
| S1.3ROOF FRAMING PLANS2.1FOUNDATION SECTIONS AND DETAILSS2.2FOUNDATION SECTIONS AND DETAILSS3.1MASONRY SECTIONS AND DETAILSS3.2MASONRY SECTIONS AND DETAILSS3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S1.1 | FOUNDATION PLAN |
| S2.1FOUNDATION SECTIONS AND DETAILSS2.2FOUNDATION SECTIONS AND DETAILSS3.1MASONRY SECTIONS AND DETAILSS3.2MASONRY SECTIONS AND DETAILSS3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S1.2 | SECOND FLOOR FRAMING PLAN |
| S2.2FOUNDATION SECTIONS AND DETAILSS3.1MASONRY SECTIONS AND DETAILSS3.2MASONRY SECTIONS AND DETAILSS3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S1.3 | ROOF FRAMING PLAN |
| S3.1MASONRY SECTIONS AND DETAILSS3.2MASONRY SECTIONS AND DETAILSS3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S2.1 | FOUNDATION SECTIONS AND DETAILS |
| S3.2MASONRY SECTIONS AND DETAILSS3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S2.2 | FOUNDATION SECTIONS AND DETAILS |
| S3.3MASONRY SECTIONS AND DETAILSS4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S3.1 | MASONRY SECTIONS AND DETAILS |
| S4.1FRAMING SECTIONS AND DETAILSS4.2FRAMING SECTIONS AND DETAILS | S3.2 | MASONRY SECTIONS AND DETAILS |
| S4.2 FRAMING SECTIONS AND DETAILS | S3.3 | MASONRY SECTIONS AND DETAILS |
| | S4.1 | FRAMING SECTIONS AND DETAILS |
| S5.1 ROOF FRAMING SECTIONS AND DETAILS | S4.2 | FRAMING SECTIONS AND DETAILS |
| | S5.1 | ROOF FRAMING SECTIONS AND DETAILS |
| S5.2 ROOF FRAMING SECTIONS AND DETAILS | S5.2 | ROOF FRAMING SECTIONS AND DETAILS |





CAST-IN-PLACE CONCRETE

1. Concrete Properties

1.1 Normal Weight Structural Concrete

| | 28-Day, f'c (min) | w/cm Ratio (max.) |
|---|--|------------------------------|
| Footings (Isolated/Continuous) Foundation Walls, Pedestals Slabs on Grade Slabs on Steel Forms Mechanical Equipment Pads: | 4,500 psi 4,500 psi 3,500 psi 3,000 psi | 0.45 0.45 0.48 0.48 |
| Interior Exterior | 3,000 psi 3,000 psi | |
| All Other Concrete | 5,000 psi | 0.40 |
| | | |

Note: All concrete shall be assigned the exposure class and CO; except concrete in Aggressive Environment shall exposure classes F3, S2, W1, and C2 (see ACI 318).

- Construction Joint Locations: No horizontal construction joints except as shown on the Structural Drawings. Obtain written cons additional joints.
- Pipes or ducts shall not exceed one-third the slab or wall thic specifically detailed. See mechanical and electrical drawings f sleeves, accessories, etc.
 - 3.1 Conduit shall not be placed within the slab on grade. Con installed below the slab on grade within the granular sub
 - 3.2 Conduit shall not be installed within elevated slabs.
- Special Finishes: Refer to Architectural Drawings for molds, gr ornaments, clips or grounds required to be encased in concrete of floor finishes and slab depressions.
- Defect Repair: Honey-combing, spalls, cracks, etc. shall be rep defective area to be determined by the Structural Engineer. 5.
- 6. Curing
 - 6.1 Begin curing procedures immediately following commencemen finishing operation.
 - 6.2 Concrete shall be moist cured in accordance with ACI 308. for additional information.
 - 6.3 All concrete slabs that are to have exposed stained or pol finish shall be wet cured a minimum of 7 days in strict ac ACI 301. The acceptable methods of wet curing are ponding, fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.

NON-SHRINK GROUTING

- 1. Non-shrink grout under steel base plates shall be non-metallic compressive strength of 5000 psi at 28 days.
- 2. Non-shrink grout used for patching, repair, and other specific shall be submitted for review and approval by engineer.

CONCRETE MASONRY

- 1. Specified Compressive Strength, f'm = 2,000 psi Minimum Net Area Compressive Strength of Masonry Unit: 2,000 p (ASTM C90 w/ Type M or S Mortar)
- 2. Mortar: Walls below grade Type M Bearing walls Type M or S Partition walls Type N
- 3. Coarse Grout: 2,500 psi min. compressive strength conforming to 3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.
 - 3.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior Single wythe CMU walls shall have head joints fully mortared.
- 4. Horizontal Joint Reinforcement: Two (2) No. 9 gage longitudinal wires at 16" vertically, UNO. Lap wire 6 inches minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.
- 5. Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.
- 6. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.
- 7. Contraction Joints: Unless noted otherwise on the Plans, maximum spacing of 1 1/2 times of wall height or 24 feet (whichever is less) in all concrete masonry walls (including partitions) above grade.
- 8. Submit written construction procedures prior to the start of masonry construction.

STRUCTURAL NOTES CONTINUED

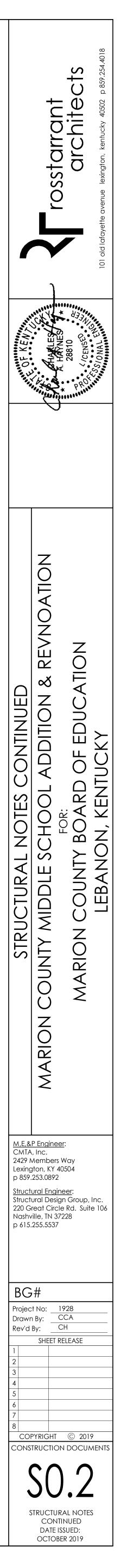
| | | <u>STR</u> | JCTURAL STEEL |
|--------------|---|------------|---|
| | | 1. | Steel Shapes |
| | | | 1.1 W-Shapes: ASTM A992 (Grade 50) |
|) | Entrained Air | | 1.2 Angles, Channels, Plates, UNO: ASTM A36 |
| | | | 1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B |
| | None Required None Required | | 1.4 Pipe Structural Sections: ASTM A53, Grade B |
| | None Required None Required | | 1.5 Structural steel exposed to weather shall be galvanized. |
| | None Required | 2. | Anchor Rods, Bolts, and Studs |
| | 5.0 +/- 1.5% 5.0 +/- 1.5% | | 2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut. |
| | FO, SO, WO, be assigned the | | 2.2 Bolts: 3/4" Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review. |
| | are permitted nt for | | 2.3 Headed Studs: ASTM A108. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off. |
| ckr | ness unless · location of | 3. | Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" dated June 22, 2010 and the AISC "Code of Standard Practice for Steel Buildings and Bridges" dated April 14, 2010. |
| ndui obas | t shall be | 4. | Connections shall be detailed based on the design information provided in the Structural Documents. |
| jroc | oves, | | 4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction", Fourteenth Edition. |
| | nd for location | | 4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer. |
| nt c | of the | | 4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication. |
| | e Specification | | 4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction", Fourteenth Edition. |
| acco | shed concrete ordance with continuous | | 4.4 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state. |
| | | 5. | Shop Drawings: Submittal shall adequately depict structural members and connections. |
| | th minimum | 6. | Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector. |
| 1- | | 7. | Galvanizing |
| | | | 9.1 Galvanize environmentally exposed steel, for example mechanical equipment supports and screenwalls. |
| osi | | | 9.2 Galvanize shelf angles that support the exterior building veneer, for example brick shelf angles. |
| | | | 9.3 Touch-up welds and abrasions in galvanized members in accordance with ASTM A780. |
| :0 A | ASTM C476. | | |
| | and wall | | |

STEEL JOISTS

- Steel Joists, Bridging, and Connections: Designed, fabricated, and erected according to Specifications of the Steel Joist Institute (SJI).
- 1.1 Net Uniform Uplift Design Load for Roof Joists = 8 psf (service load)
- 1.2 Top chord extensions or extended ends are to be designed for the same tabulated uniform loads used in the design of the associated joists plus a concentrated load of 300 pounds at the end of the of the extension or extended end, unless noted otherwise on the Drawings.
- 2. Design of steel joists, bridging, and their connections shall be the sole responsibility of the Contractor. Submit shop drawings sealed by an Engineer licensed in the project state.
- Contractor shall coordinate the construction and erection of walls, beam framing, steel decking, etc. to ensure compatibility of roof and wall systems considering pitch and camber of steel joists.

STEEL DECK

- Non-Composite Steel Form Floor Deck: For gage see plan, galvanized
- 2. Steel Roof Deck: For gage see plan, galvanized
- 3. Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.



<u>GENERAL</u>

This Structural Quality Assurance Plan includes:

- 1. The Statement of Special Inspections which defines the scope of testing and inspection t for this project.
- 2. The responsibilities of the Contractor.

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

Special Inspector will be hired by the Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

STATEMENT OF SPECIAL INSPECTIONS

Special Inspector shall perform the following tests and inspections of all structural elements included within this Statement of Special Inspections.

- 1. The following tables contain material, components and work that require special inspection or testing: a. Inspection Frequency, C - Continuous special inspection. Special inspection by the special
 - inspector who is present when and where the work to be inspected is being performed. Inspection Frequency, P - Periodic special inspection. Special inspection by the special b. inspector who is intermittently present where the work to be inspected has been or is being performed. For structural steel observe the items on a random basis.
 - See Steel section for additional information for inspection tasks. C.

| | SOILS | | ection Jency | Remarks |
|----|--|---|-----------------|--|
| 1. | Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | | Р | |
| 2. | Verify excavations are extended to proper depth and have reached proper material. | | Р | Inspection is required after excavation is complete and prior to placement of structural fills. |
| 3. | Perform classification and testing of controlled fill materials. | | Р | Perform laboratory tests of field samples provided by contractor for verification of in place densities. |
| 4. | Verify use of proper materials, densities, and lift thickness during placement and compaction of controlled fill.a. As a minimum, perform one test per lift for every 2500 square feet of fill placed. | с | | Refer to specification for lift thicknesses and compaction. |
| 5. | Prior to placement of controlled fill, observe subgrade and verify that the site has been prepared properly (e.g. proofrolling, etc.). | | Р | |
| 6. | Determine quantities of material removed and quantities of material placed where Unit Prices are involved. | | Р | |
| | NON-SHRINK GROUTING | - | ection uency | Remarks |
| 1. | Compressive strength tests per ASTM C1107. a. Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting. b. Cube Size: 2-inch x 2-inch c. Test Schedule: (1) cube at 3-days, (2) cubes at 7-days, (3) cubes at 28-days. | с | | |
| 2. | Perform one performance evaluation test prior placing grout under base plates. Test shall be performed as outlined in ACI 351.1R-99 | | Р | One test shall be performed at the beginning job prior to placement of grout under base plates. |

| С | ONCRETE CONSTRUCTION | - | ection | Remarks |
|-----|---|-------|--------|--|
| | | Frequ | Jency | |
| 1. | Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances. | | Р | ACI 318: 3.5, 7.1 – 7.7 / IBC 1910.4 |
| 2. | Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment dpeth. | С | | ACI 318: 1.3.2, 8.1.3, 21.1.8 / IBC 1908.5, AISC 360-10 N5.7 |
| 3. | Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment, and tightening torque. | С | | ACI 318: 3.8.6, 8.1.3, 21.1.8 / IBC 1909.1 Use of post installed anchors must be app Structural Engineer |
| 4. | Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: . Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening toque. | С | | ACI App. D9.2.4 |
| 5. | Verify use of required design mix. | | Р | ACI 318: Ch. 4, 5.2 – 5.4, IBC 1904.2, 191 |
| 6. | Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days. b. Remaining specimen(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate. c. For each set molded, record: i. Slump ii. Air Content iii. Unit Weight iv. Temperature, ambient and concrete v. Batch and discharge times vi. Location and placement vii. Any pertinent information, such as addition of water, addition of admixtures, etc. d. Verify compliance with construction documents | С | | ACI 318: 5.6, 5.8 ACI (5.a, 5b.i, ii, iii, iv, v, vi), SDG (5b.vii, 5 ASTM C 172, ASTM C 31 ACI 318: 5.6.1 Report in writing on the same day as tests performed. Reports of compressive streng contain the project identification name and date of concrete placement, name of conc agency, concrete design compressive stre of concrete placement in structure, concre proportions and materials, compressive br strength and type of break. |
| 7. | Inspection of concrete conveying and placement for proper application techniques. | С | | ACI 318: 5.9, 5.10 |
| 8. | Inspection for maintenance of specified curing temperature and techniques. | | Р | ACI 318: 5.11 – 5.13 |
| 9. | Inspection of formwork for shape, location, and dimensions of the concrete member being formed. | | Р | ACI 318: 6.1.1 |
| 10. | Perform testing of floor Flatness and Levelness of concrete slab placements in accordance with ASTM E1155. See specification | | Р | ACI 117-10 |

STRUCTURAL QUALITY ASSURANCE PLAN

| that | is | req | uire | ed |
|------|----|-----|------|----|

IBC 1908.5, 1909.1,

must be approved by

3 1904.2, 1910.2, 1910.3

SDG (5b.vii, 5.c, 5.d)

day as tests are essive strength tests shal on name and number, name of concrete testing pressive strength, location cture, concrete mix npressive breaking

| CONCRETE MASONRY LEVEL B - (FOR RISK CATEGORY I, II, OR III STRUCTURES using Engineered methods, NON-Empirical) | | | _ | ection Jency | Remarks |
|---|------|---|---|-----------------|---|
| 1. | | rification of f 'm in accordance with Specification TMS 602 icle 1.4 B prior to construction | | | TMS 602 - Article 1.4 B |
| 2. | | rification of Slump flow and Visual Stability Index (VSI) as ivered to the project site for self-consolidating grout. | | | TMS 602 - Article 1.5 B.1.b.3 |
| 3. | Ver | rify compliance with the following approved submittals | | | |
| | a. | Mortar mix designs indicating type and proportions of ingredients in compliance with the proportion specification of ASTM C270 | | Р | TMS 602 - Article 2.1 and 2.6 A |
| | b. | Mortar mix designs and mortar tests performed in accordance with the property specification of ASTM C270. | | Р | TMS 602 - Article 2.1 and 2.6 A |
| | C. | Grout mix designs indicating type and proportions of the ingredients according to the proportion requirements of ASTM C476 | | Р | TMS 602 - Article 2.2 |
| | d. | Grout mix designs and grout strength test performed in accordance with ASTM C476 | | Р | TMS 602 - Article 2.2 |
| | e. | Grout compressive strength tests performed in accordance with ASTM C1019, and slump flow and Visual Stability Index (VSI) as determined by ASTM C1611/C1611M. | | Р | TMS 602 - Article 2.2 |
| | f. | Construction procedures cold weather (temperature below 40°F) or hot weather (temperature above 90°F) | | Р | TMS 602 - Article 1.8 C and 1.8 D |
| 4. | | masonry construction begins, verify that the following are compliance: | | | |
| | a. | Proportions of site-prepared mortar | | Р | TMS 602 - Article 2.1 and 2.6 A |
| | b. | Construction of mortar joints | | Р | TMS 602 - Article 3.3 B |
| | C. | Location of reinforcement and connectors | | Р | TMS 602 - Article 3.4 |
| 5. | Pric | or to grouting, verify that the following are in compliance: | | | |
| | a. | Grout space. | | Р | TMS 602 - Article 3.2 D and 3.2 F |
| | b. | Grade, type, and size of reinforcement and anchor bolts | | Р | TMS 402 - Sec 1.16 TMS 602 - Article 2.4 and 3.4 |
| | C. | Placement of reinforcement and connectors (including horizontal joint reinforcement) | | Р | TMS 402 - Sec 1.16 TMS 602 - Article 3.2 E and 3.4 |
| | d. | Proportions of site-prepared grout | | Р | TMS 602 - Article 2.6 B |
| | e. | Construction of mortar joints | | Р | TMS 602 - Article 3.3 B |
| 6. | Ver | rify during construction: | | | |
| | a. | Size and location of structural elements | | Р | TMS 602 - Article 3.3 F |
| | b. | Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction | | Р | TMS 402 - Sec. 1.16.4.3, 1.17.1 |
| | C. | Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F) | | Р | TMS 602 - Article 1.8 C and 1.8 D |
| | d. | Placement of grout is in compliance | С | | TMS 602 - Article 3.5 |
| 7. | | serve preparation of grout specimens, mortar specimens, d/or prisms | | Р | TMS 602 - Article 1.4 B.2.b.3, 1.4 B.3, 1.4 B.4 |

| STRUCTURAL STEEL | | ection Jency | Remarks |
|--|---|--|--|
| Where the following tasks have been be performed by the fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10. It is permitted that this tasked be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special | Obs | - | these items on a random basis. Is need not be delayed pending Dections. |
| Inspector shall review records of tasked performed by the erector's and fabricator's quality control program to verify completeness. | Perf | - Perform t member. | hese tasks for each welded joint or |
| Inspection of steel framing to verify compliance with details shown on the approved construction documents including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc. | | Obs. | AISC 360-10 N5.7 |
| Review the material test reports and certifications as listed below for compliance with the construction documents. a. Main structural steel material test reports b. Anchor rods and threaded rods test reports c. Headed stud anchors - manufacturer's certifications | Perf. | | AISC 360-10 N5.2 & N3.2 |
| 3. Visual Inspection Tasks Prior to Welding | | | AISC 360-10 Table N5.4-1 |
| a. Welding procedure specifications (WPSs) availableb. Manufacturer certifications for welding consumables | Perf. | | AWS D1.1/D1.1M 6.3 |
| available. c. Material identification (type/grade) | | Obs. | |
| Welder identification system The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. | | Obs. | AWS D1.1/D1.1M 6.4 (welder qualification) (identification system not required |
| Stamps, if used, shall be the low-stress type. e. Fit-up of groove welds (including joint geometry) Joint preparation Dimensions (alignment, root opening, root face, bevel) Cleanliness (condition of steel surfaces) | | Obs. | by AWS D1.1/D1.1M) AWS D1.1/D1.1M 6.5.2 AWS D1.1/D1.1M 5.22 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18 |
| iv. Tacking (tack weld quality and location) v. Backing type and fit (if applicable) f. Configuration and finish of access holes | | Oha | AWS D1.1/D1.1M 5.10, 5.22.1.1 AWS D1.1/D1.1M 6.5.2, 5.17 |
| f. Configuration and finish of access holes g. Fit-up of fillet welds i. Dimensions (alignment, gaps at root) ii. Cleanliness (condition of steel surfaces) iii. Tacking (tack weld quality and location) | | Obs. Obs. | AWS D1.1/D1.1M 6.3.2, 5.17 AWS D1.1/D1.1M 5.22.1 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18 |
| h. Check welding equipment | | Obs. | Only Required for shop Fabrication. |
| 4. Visual Inspection Tasks During Welding | | | AISC 360-10 Table N5.4-2 |
| a. Use of qualified weldersb. Control and handling of welding consumables | | Obs. | AWS D1.1/D1.1M 6.4 AWS D1.1/D1.1M 6.2 |
| i. Packaging ii. Exposure control | | Obs. | AWS D1.1/D1.1M 5.3.1 AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D1.1/D1.1M 5.3.3 (for SAW) |
| c. No welding over cracked tack welds | | Obs. | AWS D1.1/D1.1M 5.18 |
| d. Environmental conditions i. Wind speed within limits ii. Precipitation and temperature | | Obs. | AWS D1.1/D1.1M 5.12.1 AWS D1.1/D1.1M 5.12.2 |
| e. WPS followed i. Settings on welding equipment ii. Travel speed iii. Selected welding materials iv. Shielding gas type/flow rate v. Preheat applied vi. Interpass temperature maintained (min./max.) | | Obs. | AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21 AWS D1.1/D1.1M 5.6, 5.7 |
| vii. Proper position (F, V, H, OH) f. Welding techniques Interpass and final cleaning Each pass within profile limitations Each pass meets quality requirements | | Obs. | AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24 AWS D1.1/D1.1M 5.30.1 |
| 5. Visual Inspection Tasks After Welding | | | AISC 360-10 Table N5.4-3 |
| a. Welds cleanedb. Size, length and location of welds | Perf. | Obs. | AWS D1.1/D1.1M 5.30.1 AWS D1.1/D1.1M 6.5.1 |
| c. Welds meet visual acceptance criteria i. Crack prohibition ii. Weld/base-metal fusion iii. Crater cross section iv. Weld profiles v. Weld size vi. Undercut | Perf. | | AWS D1.1/D1.1M 6.5.3 AWS D1.1/D1.1M Table 6.1(1) AWS D1.1/D1.1M Table 6.1(2) AWS D1.1/D1.1M Table 6.1(3) AWS D1.1/D1.1M Table 6.1(4), 5.24 AWS D1.1/D1.1M Table 6.1(6) AWS D1.1/D1.1M Table 6.1(7) |
| vii. Porosity d. Arc strikes | Perf. | | AWS D1.1/D1.1M Table 6.1(8) AWS D1.1/D1.1M 5.29 |
| e. k-area. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld. | Perf. | | Not addressed in AWS but see AISC (1997b). See Commentary Section A3.1c and Section J10.8. |
| f. Repair activities | Perf. | | AWS D1.1/D1.1M 6.5.3, 5.26 |
| g. Document acceptance or rejection of welded joint or member | Perf. | | AWS D1.1/D1.1M 6.5.4, 6.5.5 |
| Nondestructive Testing (NDT) of Welded Joints | radiograph Inspector i fabricator's Certified o fabricator i fabricator's performed with AWS | nic testing (RT) n accordance s shop may be r approved by performs the N s NDT reports. by the Specia D1.1/D1.1M fo | nagnetic particle testing (MT), penetrant testing (PT) and), where required, shall be performed by Special with AWS D1.1/D1.1M. NDT of welds completed in a performed by that fabricator when fabricator is AISC the Building Official where applicable. When the NDT, the Special inspection agency shall review the All NDT of welds completed in the field shall be I Inspector. Acceptance criteria shall be in accordance or <i>statically loaded</i> structures, unless otherwise <i>drawings</i> or project <i>specifications</i> . |
| UT all complete penetration groove welds subject to transversely applied tension loading in a butt, T- and corner joints in material 5/16" thick or greater. | Perf. | | AISC 360-10 N5.5b |
| b. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to EOR or owner submit to contractor. | Perf. | | AISC 360-10 N5.5g |
| c. Review NDT test reports performed by fabricator | | | AISC 360-10 N7 |

| STRUCTURAL STEEL CONT. | | JCTURAL STEEL CONT.InspectionFrequency | | Remarks | |
|--------------------------------------|--|--|--------|---|--|
| 7. Inspection Tasks Prior to Bolting | | | | Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. | |
| | | | | AISC 360-10 Table N5.6-1 | |
| a. | Manufacturer's certifications available for fastener materials | Perf. | | RCSC 2.1 & 9.1 | |
| b. | Fasteners marked in accordance with ASTM requirements | Perf. | | RCSC Figure C-2.1 & 9.1 (Also See ASTM Standards) | |
| C. | Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | | Obs. | RCSC 2.3.2, 2.7.2 & 9.1 | |
| d. | Proper bolting procedure selected for joint detail | | Obs. | RCSC 4 & 8 | |
| e. | Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | | Obs. | RCSC 3, 9.4 & 9.3 | |
| f. | Pre-installation verification testing by installation personne observed and documented for fastener assemblies and methods used, not required for Snug tight bolts | | Obs. | RCSC 7 & 9.2 | |
| g. | Proper storage provided for bolts, nuts, washers and other fastener components | | Obs. | RCSC 2.2,8 & 9.1 | |
| 8. In | spection Tasks During Bolting | | | Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. Special Inspector need not be present during bolt pretensioning procedures. AISC 360-10 Table N5.6-2 | |
| a. | Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required | | Obs. | RCSC 8.1 & 9.1 | |
| b. | Joint brought to the snug-tight condition prior to the pretensioning operation | | Obs. | RCSC 8.1 & 9.1 | |
| C. | Fastener component not turned by the wrench prevented from rotating | | Obs. | RCSC 8.2 & 9.2 | |
| d. | Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges | | Obs. | RCSC 8.2 & 9.2 | |
| 9. In | spection Tasks After Bolting | | | AISC 360-10 Table N5.6-3 | |
| a. | Document acceptance or rejection of bolted connections | Perf. | | | |
| | STEEL JOISTS | - | ection | Remarks | |

| | STEEL JOISTS | Frequ | iency | Remarks |
|----|---|-------|-------|---------|
| 1. | Visual inspection of bolted and welded connections. | | Р | |
| 2. | Verify installation of bridging or braces. | | Р | |
| 3. | Verify connections for top and bottom chords. | | Р | |
| 4. | Verify reinforcement of members for concentrated loads. | | Р | |
| 5. | Verify proper bearing. | | Р | |

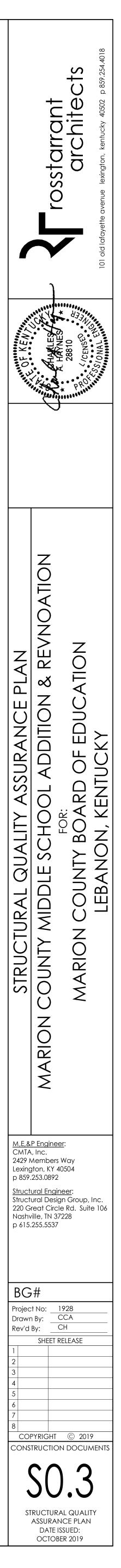
| STEEL DECK | | Inspection Frequency | | Remarks | |
|------------|---|-------------------------|---|-----------------------------|--|
| 1. | Material verification of steel deck. a. Identification markings to conform to ASTM standards specified in the approved construction documents b. Manufacturer's certified test reports. | | Ρ | | |
| 2. | Verify general alignment and deck lap. | | Р | | |
| 3. | Verify welds for size and pattern. | | Р | | |
| 4. | 4. Inspection of welding at floor and roof deck | | Р | in accordance with AWS D1.3 | |
| 5. | Verify spacing and type of sidelap attachments. | | Р | | |
| 6. | Verify installation of deck closures. | | Р | | |
| 7. | Inspect welding operations, screw attachment, bolting, anchoring, and other fastening of components within the lateral force resisting system along including shear walls, braces,diaphragms, collectors (drag struts) and hold downs. | | Ρ | | |

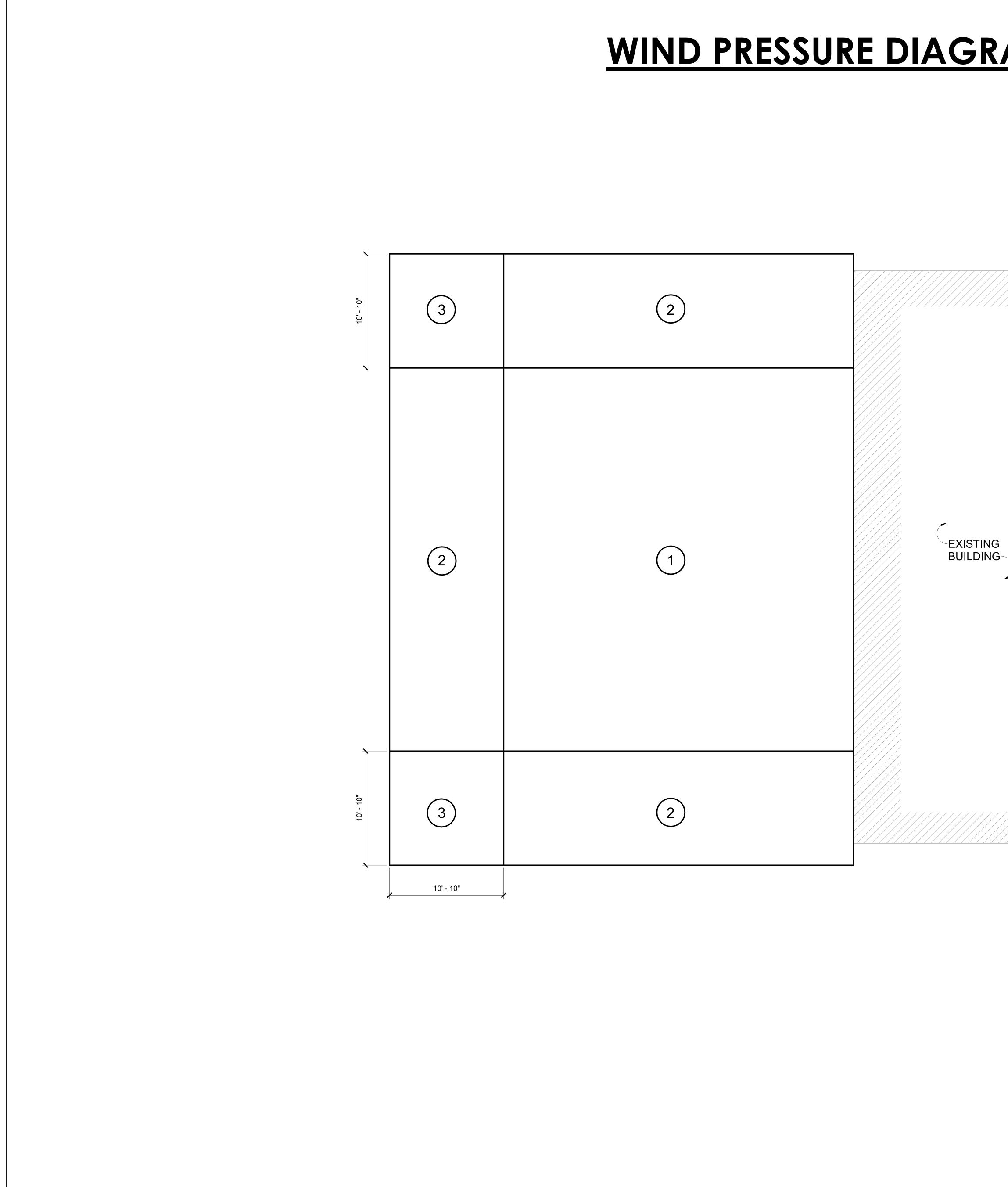
CONTRACTOR RESPONSIBILITIES

- 1. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience. 2.
- Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed. Contractor has the following responsibilities to the Special Inspector:
- a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change
- orders and field orders prior to inspection of work contained therein). Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- Cooperate with Special Inspector and provide access to work. Provide samples of materials to be tested in required quantities.
- Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete e. testing samples. Provide labor to assist Special Inspector in performing tests/inspections.
- 4. Contractor shall perform the following:

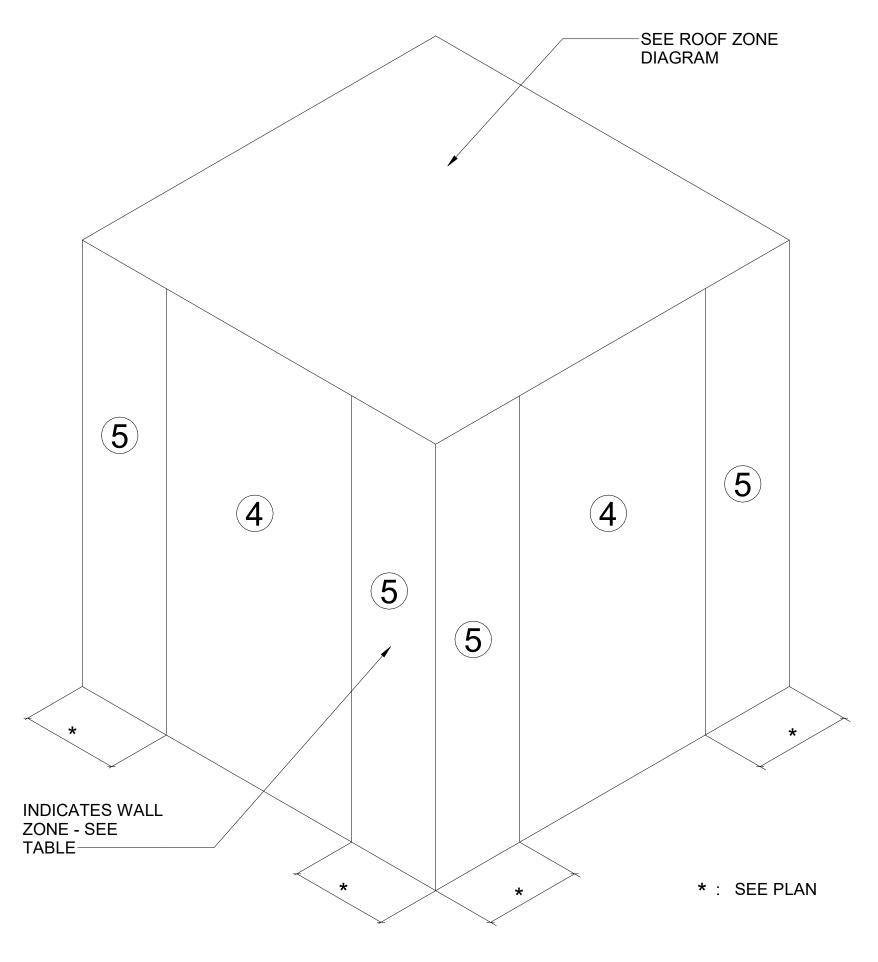
e.

- a. SOILS Identify soils to be used as structural fill.
- CAST-IN-PLACE CONCRETE b.
 - Establish concrete mix design proportions in accordance with the specifications and
- ACI 318. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.
- NON-SHRINK GROUTING C. Submit product data sheets for non-shrink grout that shows compliance with the Construction Documents and with ASTM C1107 for fluid or flowable grouts, prior to placement of grout.
- CONCRETE MASONRY d. Submit a certification from each manufacturer or supplier stating that the following materials i.
 - comply with the Construction Documents:
 - 1. Concrete masonry units. Mortar materials: Portland cement, hydrated lime, and aggregates.
 - Grout materials: Portland cement and aggregates.
 - Joint reinforcement steel. 5. Reinforcing steel.
- STRUCTURAL STEEL
- If fabricator or erector is NOT AISC certified, the fabricator and/or erector shall establish and maintain *quality control* procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel
- Building, AISC 360-10 and the *construction documents*. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the fabricator and Erector.
- 1. Make available the documents listed in AISC 360-10 N3.2 in electronic or printed form for review by the EOR of the EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted:
- ii. Provide non-destructive test (NDT) reports performed in shop by fabricator. Fabricator is responsible for cost of NDT performed in shop. Reports shall identify the tested weld by piece mark and location in the piece.
- POST-INSTALLED ANCHORS
- Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place. STEEL JOISTS
- Submit manufacturer's certificate of compliance that the steel joists comply with the Construction Documents. STEEL DECK h.
- i. Submit manufacturer's certificate of compliance that the supplied steel deck complies with the Construction Documents.





WIND PRESSURE DIAGRAM

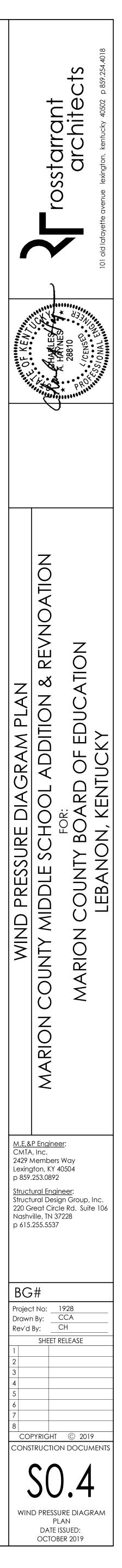


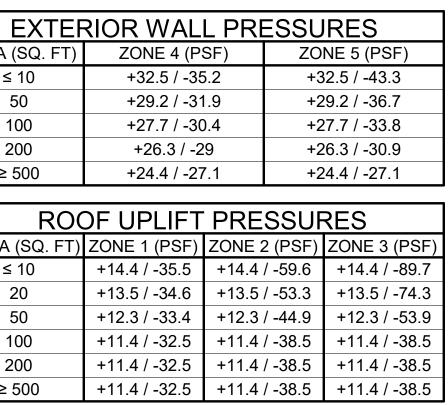
WALL ZONE DIAGRAM

| WIND PRESSURE DIAGRAM NOTES: | |
|--|--|
| 1. DESIGN WIND PRESSURES WERE CALCULATED IN ACCORDANCE WITH ASCE 7-10 BASED ON AN EFFECTIVE WIND ARE. MULTIPLY BY 0.6 FOR ASD. | |
| 2. ROOF UPLIFT WIND PRESSURES IN ZONES 1, 2, AND 3 ARE GROSS UPLIFT VALUES. NET UPLIFT PRESSURES SHALL BE CONSIDERED EQUAL TO GROSS PRESSURES. | |
| 3. TABULATED WIND PRESSURES SHALL BE USED IN THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS. INTERPRETATION AND APPLICATION OF THESE PRESSURES TO SPECIFIC PORTIONS OF THE BUILDING AREAS SHALL BE THE RESPONSIBILITY OF THE EXTERIOR COMPONENT AND CLADDING MATERIAL SUPPLIER. | |
| 4. WHERE PARAPET HEIGHT EXCEEDS 3' - 0", CORNER ZONES (ZONE 3), MAY BE TREATED AS PERIMETER ZONES (ZONE 2). | |

| AREA (SQ. FT) | ZONE 4 (PS | ZO | Ν | |
|-----------------------------|--|-----------------------------------|-------------------------------|----|
| ≤ 10 | +32.5 / -35 | +3 | 32 | |
| 50 | +29.2 / -31 | .9 | +2 | 29 |
| 100 | +27.7 / -30 |).4 | +2 | 27 |
| 200 | +26.3 / -2 | +2 | 26 | |
| ≥ 500 | +24.4 / -27 | '.1 | +2 | 24 |
| | | | | |
| | | | | |
| ROO | OF UPLIFT | PRE | SSUF | 2 |
| ROC AREA (SQ. FT) | | | SSUF 2 (PSF) | - |
| | | | 2 (PSF) | - |
| AREA (SQ. FT) | ZONE 1 (PSF) | ZONE 2 +14.4 | 2 (PSF) | - |
| AREA (SQ. FT) ≤ 10 | ZONE 1 (PSF) +14.4 / -35.5 | ZONE 2 +14.4 | 2 (PSF) / -59.6 / -53.3 | - |
| AREA (SQ. FT) ≤ 10 20 | ZONE 1 (PSF) +14.4 / -35.5 +13.5 / -34.6 | ZONE 2 +14.4 +13.5 +12.3 | 2 (PSF) / -59.6 / -53.3 | - |

200 ≥ 500





| С | oncrete I | Minimun | n 2 |
|----------|-------------|---------------|----------|
| С | ompress | ive Stre | |
| f'c | ; = 3000 | psi | |
| Bar | Cas | se 1 | |
| Size | Top Bars | Other Bars | - E |
| #3 | 2'-6" | 2'-0" | |
| #4 | 3'-3" | 2'-9" | 5 |
| #5 | 4'-3" | 3'-3" | 6 |
| #6 | 5'-0" | 3'-9" | |
| #7 | 7'-0" | 5'-6" | · |
| #8 | 8'-0" | 6'-3" | |
| #9 | 9'-0" | 7'-0" | |
| #10 | 10'-0" | 7'-9" | |
| #11 | 11'-3" | 8'-9" | |
| | | | |
| | oncrete N | | |
| | ompress | | ng |
| <u> </u> | := 4000 | psi | |
| Bar | Cas | se 1 | |
| Size | | | <u> </u> |

| fc = 4000 psi | | | | |
|----------------|-------------|---------------|-------------|---------------|
| Bar | | | Cas | se 2 |
| Size | Top Bars | Other Bars | Top Bars | Other Bars |
| #3 | 2'-3" | 1'-9" | 3'-3" | 2'-6" |
| #4 | 3'-0" | 2'-3' | 4'-3" | 3'-3" |
| #5 | 3'-6" | 2'-9" | 5'-3" | 4'-3" |
| #6 | 5'-3" | 4'-0" | 7'-9" | 6'-0" |
| #7 | 7'-6" | 5'-9" | 11'-3" | 8'-9" |
| #8 | 8'-6" | 6'-6" | 12'-9" | 9'-9" |
| #9 | 9'-6" | 7'-6" | 14'-3" | 11'-0" |
| #10 | 10'-9" | 8'-3" | 16'-0" | 12'-6" |
| #11 | 12'-0" | 9'-3" | 17'-9" | 13'-9" |

SPLICE LENGTH NOTES:

| Case #1: | For beams and columns, condequal to bar diameter, bar spatimes bar diameter, and ties a other members, concrete cover diameter and bar spacing great diameter. |
|----------|--|
| Case #2: | For beams and columns, cond diameter and bar spacing less members, concrete cover less less than 3 times bar diameter |

28 Day ith Case 2 Other Bars Top Bars 3'-9" 5'-0" 6'-0" 7'-3" 10'-6" 11'-9" 13'-3" 15'-0" 16'-6" 3'-0" 3'-9" 4'-9" 5'-6" 8'-0" 9'-3" 10'-3" 11'-6" 12'-9"

28 Day gth,

ncrete cover greater than or pacing greater than or equal to 2 as specified on the drawings. For over greater than or equal to bar reater than or equal to 3 times bar

oncrete cover less than bar ess than 2 bar diameters. For other eter.

| Concrete Minimum 28 Day Compressive Strength, f'c = 5000 psi | | | | | | |
|--|-------------|---------------|-------------|---------------|--|--|
| Bar | Cas | se 1 | Cas | se 2 | | |
| Size | Top Bars | Other Bars | Top Bars | Other Bars | | |
| #3 | 2'-0" | 1'-9" | 3'-0" | 2'-3" | | |
| #4 | 2'-9" | 2'-3" | 3'-9" | 3'-0" | | |
| #5 | 3'-3" | 2'-6" | 4'-9" | 3'-9" | | |
| #6 | 4'-9" | 3'-9" | 7'-0" | 5'-6" | | |
| #7 | 6'-9" | 5'-3" | 10'-0" | 7'-9" | | |
| #8 | 7'-9" | 6'-0" | 11'-6" | 8'-9" | | |
| #9 | 8'-9" | 6'-9" | 12'-9" | 10'-0" | | |
| #10 | 9'-9" | 7'-6" | 14'-6" | 11'-3" | | |
| #11 | 10'-9" | 8'-3" | 16'-0" | 12'-3" | | |

| Concrete Minimum 28 Day |
|-------------------------|
| Compressive Strength, |
| f'c = 6000 psi |

| Bar Sina | Cas | se 1 | Cas | se 2 |
|-------------|-------------|---------------|-------------|---------------|
| Size | Top Bars | Other Bars | Top Bars | Other Bars |
| #3 | 2'-0" | 1'-6" | 2'-9" | 2'-3" |
| #4 | 2'-6" | 2'-0" | 3'-6" | 2'-9" |
| #5 | 3'-0" | 2'-3" | 4'-3" | 3'-6" |
| #6 | 3'-6" | 2'-9" | 5'-3" | 4'-0" |
| #7 | 5'-0" | 4'-0" | 8'-6" | 6'-6" |
| #8 | 5'-9" | 4'-6" | 8'-6" | 6'-6" |
| #9 | 6'-6" | 5'-0" | 9'-6" | 7'-3" |
| #10 | 7'-3" | 5'-6" | 10'-9" | 8'-3" |
| #11 | 8'-0" | 6'-3" | 11'-9" | 9'-3" |

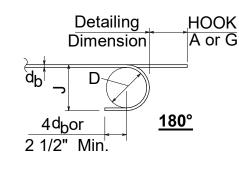
Top bars are horizontal reinforcement with more than 12" of fresh concrete placed below the splice.

Where indicated on the drawings, class "A" lap splice lengths may be calculated by dividing tabulated values by 1.3.

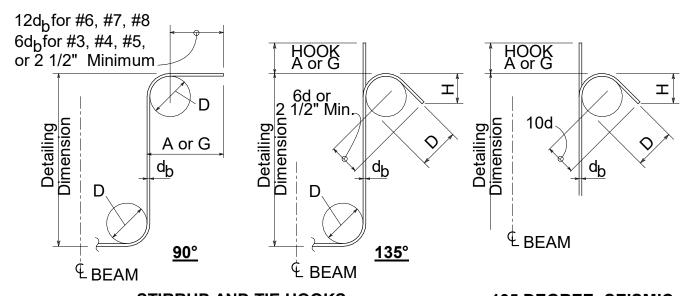
As contractor's alternate, class "B" splice lengths may be calculated by the steel reinforcement detailer in accordance with ACI 318 and submitted for review.

oncrete cover less than bar less than 2 bar diameters. For other less than bar diameter and bar spacing eter minimum yield strength.

For lightweight structural concrete, multiply lap splice lengths by 1.3



| | RECOMI | MENDED END | |
|------|--------------------|-------------|----|
| BAR | FINISHED BEND | 180 DEG |). |
| SIZE | DIAMETER D, in. | A or G, in. | |
| #3 | 2 1/4" | 5" | |
| #4 | 3" | 6" | |
| #5 | 3 3/4" | 7" | |
| #6 | 4 1/2" | 8" | |
| #7 | 5 1/4" | 10" | |
| #8 | 6" | 11" | |
| #9 | 9 1/2" | 1'-3" | |
| #10 | 10 3/4" | 1'-5" | |
| #11 | 12" | 1'-7" | |
| #14 | 18 1/4" | 2'-3" | |
| #18 | 24" | 3'-0" | |



STIRRUP AND TIE HOOKS

| | | - | STIRRUP & TII K DIMENSION | | | RRUP - TIE ENSIONS, in.* |
|------|--------|------------|------------------------------|--------------|---------|-----------------------------|
| BAR | | 135° HOOKS | | 135° | HOOKS | |
| SIZE | D,in* | A or G | A or G | H APPROX. | A or G | H APPROX. |
| #3 | 1 1/2" | 4" | 4" | 2 1/2" | 4 1/4" | 3" |
| #4 | 2" | 4 1/2" | 4 1/2" | 3" | 4 1/2" | 3" |
| #5 | 2 1/2" | 6" | 5 1/2" | 3 3/4" | 5 1/2" | 3 3/4" |
| #6 | 4 1/2" | 1'-0" | 8" | 4 1/2" | 8" | 4 1/2" |
| #7 | 5 1/4" | 1'-2" | 9" | 5 1/4" | 9" | 5 1/4" |
| #8 | 6" | 1'-4" | 10 1/2" | 6" | 10 1/2" | 6" |

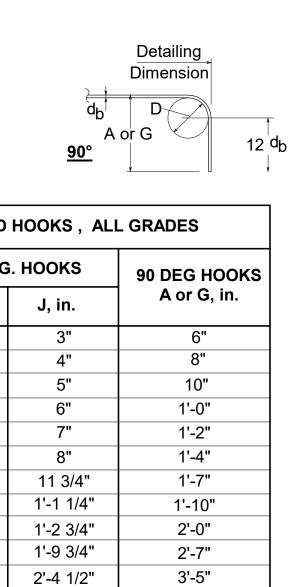
* GRADES 40, 50 and 60

TYPICAL BAR HOOK DETAILS

CONCRETE REINFORCEMENT CLASS "B" SPLICE LENGTHS (UNO)

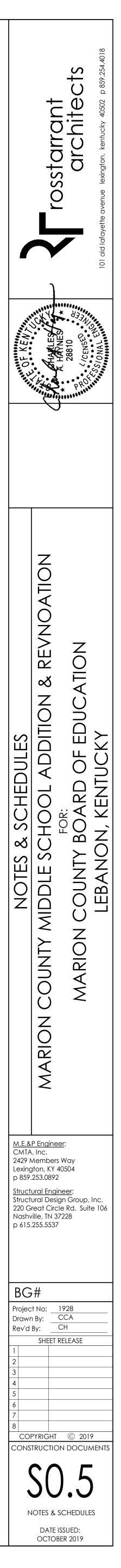
| | WALL FOOTING SCHEDULE | | | | |
|-------|-----------------------|------------|------------|---------|--|
| MARK | SIZE | REINFC | RCING | REMARKS | |
| | WIDTH & DEPTH | CONTINUOUS | TRANSVERSE | | |
| WF2.0 | 2'-0"x1'-0" | 3 - #5 | #4 @ 24" | | |
| WF3.0 | 3'-0"x | | | | |
| WF3.5 | 3'-6"x | | | | |
| WF4.5 | 4'-6"x | | | | |
| | | | | | |
| | | | | | |

NOTES & SCHEDULES



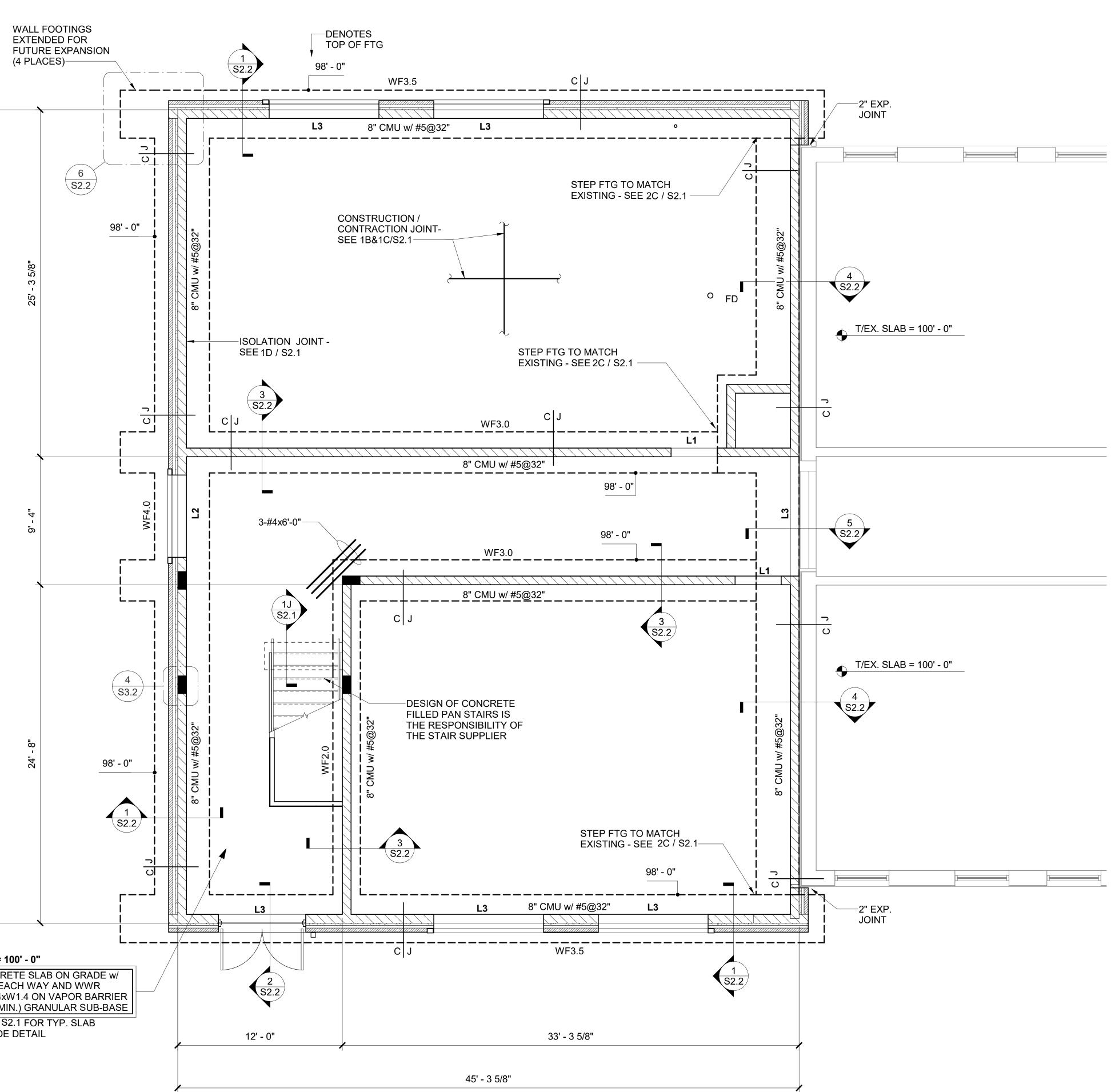
<u>135 DEGREE -SEISMIC</u> STIRRUP / TIE HOOKS

| STRU | STRUCTURAL ABBREVIATIONS | | | | |
|--------------|---------------------------------------|--|--|--|--|
| AFF | ABOVE FINISHED FLOOR | | | | |
| ALT. | ALTERNATE | | | | |
| ARCH. | ARCHITECT/ARCHITECTURE | | | | |
| BLDG | BUILDING | | | | |
| BRG | BEARING | | | | |
| B or BOT. | BOTTOM | | | | |
| B/xxx | BOTTOM OF SOMETHING | | | | |
| CJ | CONTRACTION/CONSTRUCTION JOINT | | | | |
| CL | CENTERLINE | | | | |
| CLR | CLEAR | | | | |
| CMU | CONCRETE MASONRY UNIT | | | | |
| COL. | COLUMN | | | | |
| CONC. | CONCRETE | | | | |
| CONN. | CONNECTION | | | | |
| CONT. | CONTINUOUS/CONTINUED | | | | |
| COORD. | COORDINATE | | | | |
| DBL | DOUBLE | | | | |
| DIA. | DIAMETER | | | | |
| DL | DEAD LOAD | | | | |
| DP | DRILLED PIER | | | | |
| DWG, DWGS | DRAWING(S) | | | | |
| EA. | EACH | | | | |
| EE | EACH END | | | | |
| EF | EACH FACE | | | | |
| EW | EACH WAY | | | | |
| EJ | EXPANSION JOINT | | | | |
| EL. | ELEVATION | | | | |
| EQ. | EQUAL | | | | |
| ELEV | ELEVATOR | | | | |
| EMBED. | EMBEDMENT/EMBEDDED | | | | |
| EOS | EDGE OF SLAB | | | | |
| EQUIP. | EQUIPMENT | | | | |
| EXIST. | EXISTING | | | | |
| EXP. | EXPANSION | | | | |
| EXT. | EXTERIOR | | | | |
| F/xxx | FACE OF SOMETHING | | | | |
| FD | FIELD DETERMINED | | | | |
| FDN | FOUNDATION | | | | |
| FIN. | FINISHED | | | | |
| FLG | FLANGE | | | | |
| FLR or FL. | FLOOR | | | | |
| FS | FAR SIDE | | | | |
| FT | FEET | | | | |
| FTG | FOOTING | | | | |
| FV | FIELD VERIFY | | | | |
| GA. | GAGE | | | | |
| GALV. | GALVANIZED | | | | |
| HDD | HEADED | | | | |
| HORIZ. | HORIZONTAL | | | | |
| ICF INFO. | INSULATED CONCRETE FORM | | | | |
| INT. | INTERIOR | | | | |
| JT | JOINT | | | | |
| JST | JOIST | | | | |
| K | KIPS | | | | |
| KSI | KIPS PER SQUARE INCH | | | | |
| KSF | KIPS PER SQUARE FOOT | | | | |
| LBS or # | POUNDS | | | | |
| LL | LIVE LOAD | | | | |
| LLH | LONG LEG HORIZONTAL | | | | |
| LLO | LONG LEG OUTSTANDING | | | | |
| LLV | LONG LEG VERTICAL | | | | |
| MPE | MECHANICAL, PLUMBING AND ELECTRICAL | | | | |
| MFR | MANUFACTURER | | | | |
| MATL | MATERIAL | | | | |
| MAX. | MAXIMUM | | | | |
| MECH. | MECHANICAL | | | | |
| MIN. | MINIMUM | | | | |
| MISC. | MISCELLANEOUS | | | | |
| No. or # | NUMBER | | | | |
| NS | NEAR SIDE | | | | |
| N/A | NOT APPLICABLE | | | | |
| NTS | NOT TO SCALE | | | | |
| OH | OPPOSITE HAND | | | | |
| OPP. | OPPOSITE | | | | |
| PART. | PARTIAL, OR PARTITION | | | | |
| PL | PLATE | | | | |
| PH | PENTHOUSE | | | | |
| PSF | POUNDS PER SQUARE FOOT | | | | |
| PSI | POUNDS PER SQUARE INCH | | | | |
| R | REACTION | | | | |
| RAD. | RADIUS | | | | |
| RD | ROOF DRAIN | | | | |
| REINF. | REINFORCING/REINFORCEMENT | | | | |
| REQD | REQUIRED | | | | |
| REV. RTU | REVISION/REVISED | | | | |
| SDS | ROOF TOP UNIT SELF-DRILLING SCREWS | | | | |
| SECT. | SECTION | | | | |
| SIM. | SIMILAR | | | | |
| SPECS | SPECIFICATIONS | | | | |
| SQ. | SQUARE | | | | |
| STD | STANDARD | | | | |
| STIFF. | STIFFENER | | | | |
| STL | STEEL | | | | |
| SYM. | SYMMETRICAL | | | | |
| T | TOP | | | | |
| t | THICKNESS | | | | |
| T/xxx | TOP OF SOMETHING | | | | |
| THK | THICK | | | | |
| TYP. | TYPICAL | | | | |
| UNO | UNLESS NOTED OTHERWISE | | | | |
| VERT. | VERTICAL | | | | |
| w/ | WITH | | | | |
| w/o | WITHOUT | | | | |
| WP | WORK POINT | | | | |
| WT | WEIGHT | | | | |
| WWR | WELDED WIRE REINFORCEMENT | | | | |
| | | | | | |





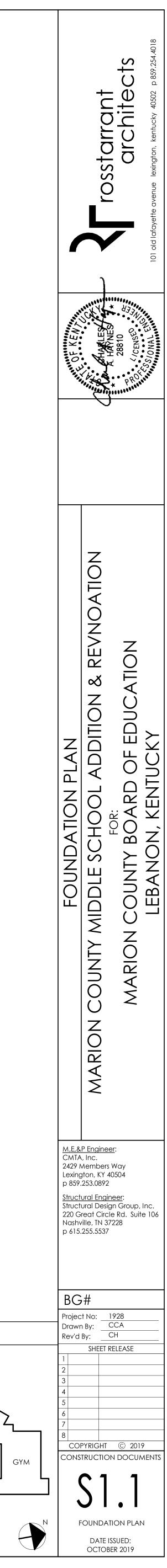
| Γ/SLAB | = 100 |
|--------|-------|
| 4" CON | CRET |
| #4@48' | ' EAC |
| 6x6-W1 | .4xW |
| AND 6" | (MIN |
| SEE 1A | / S2. |
| ON GRA | |

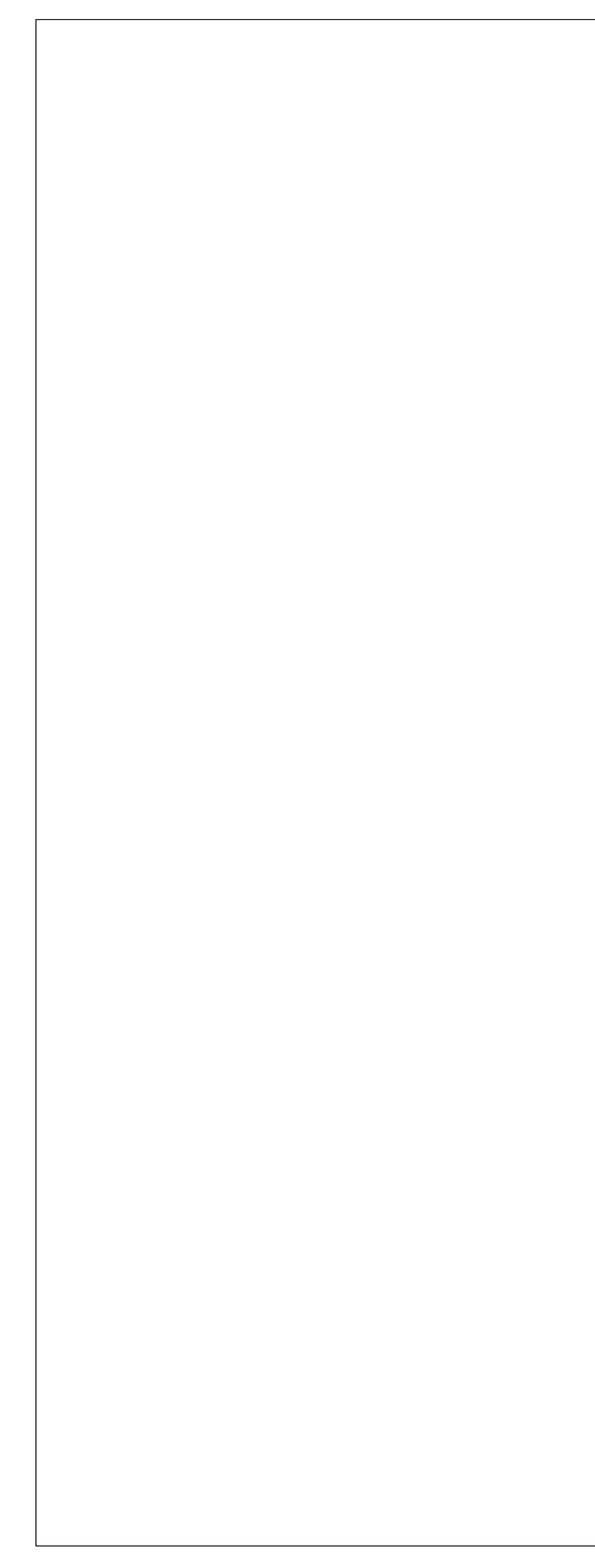


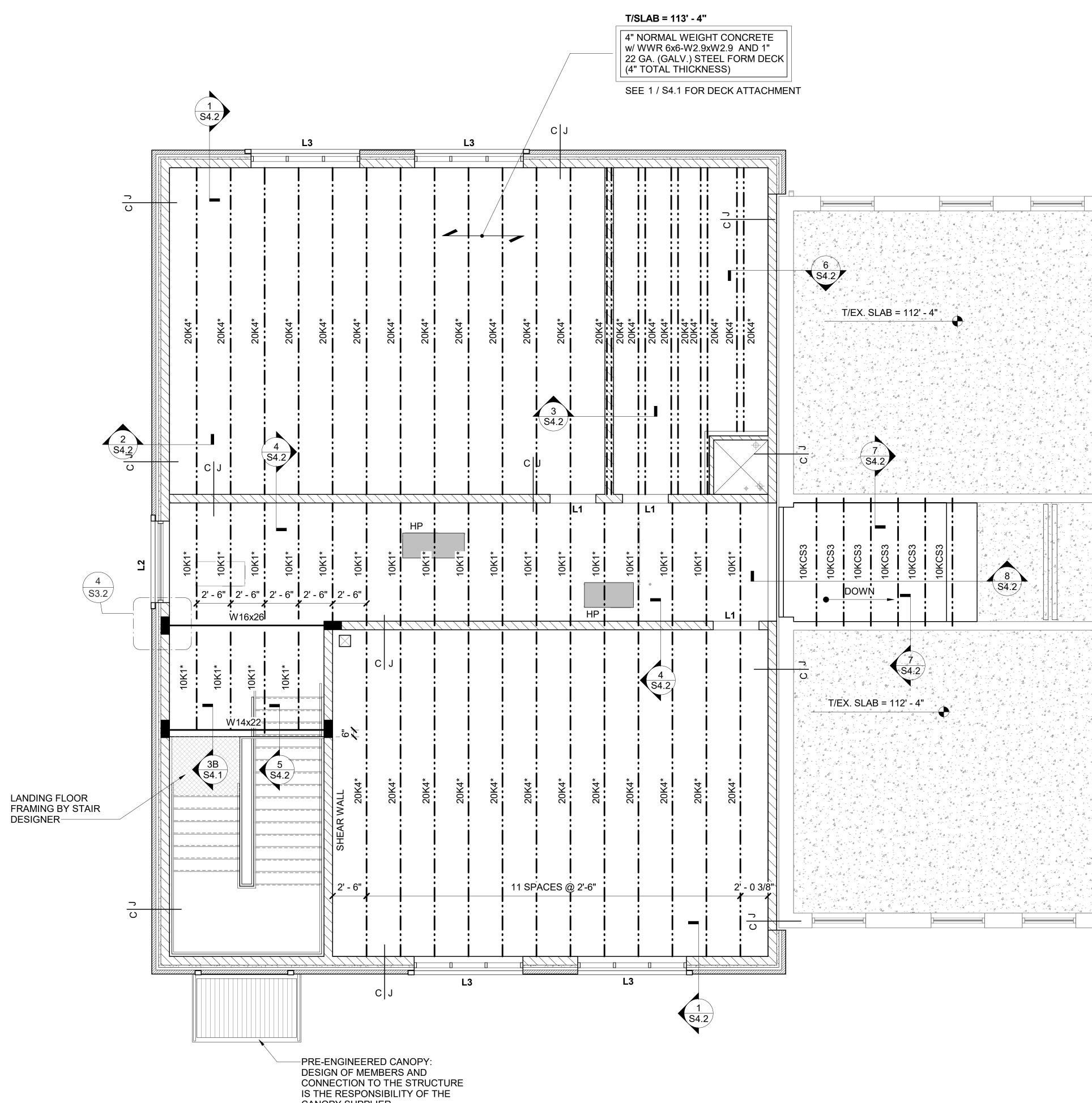
FOUNDATION PLAN

1/4" = 1'-0"

KEY PLAN







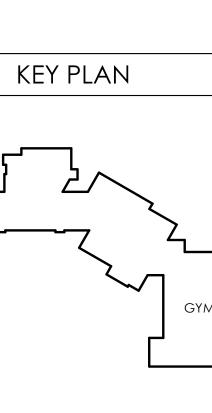
CANOPY SUPPLIER.

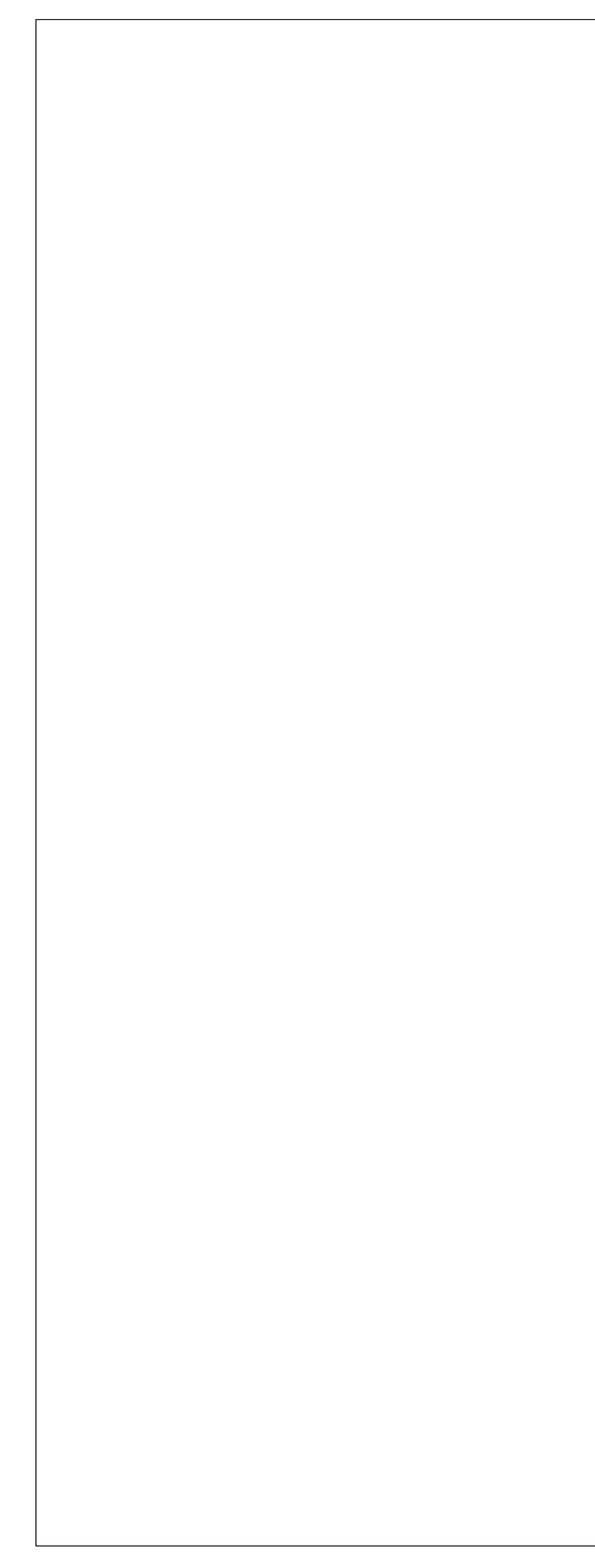
SECOND FLOOR FRAMING PLAN

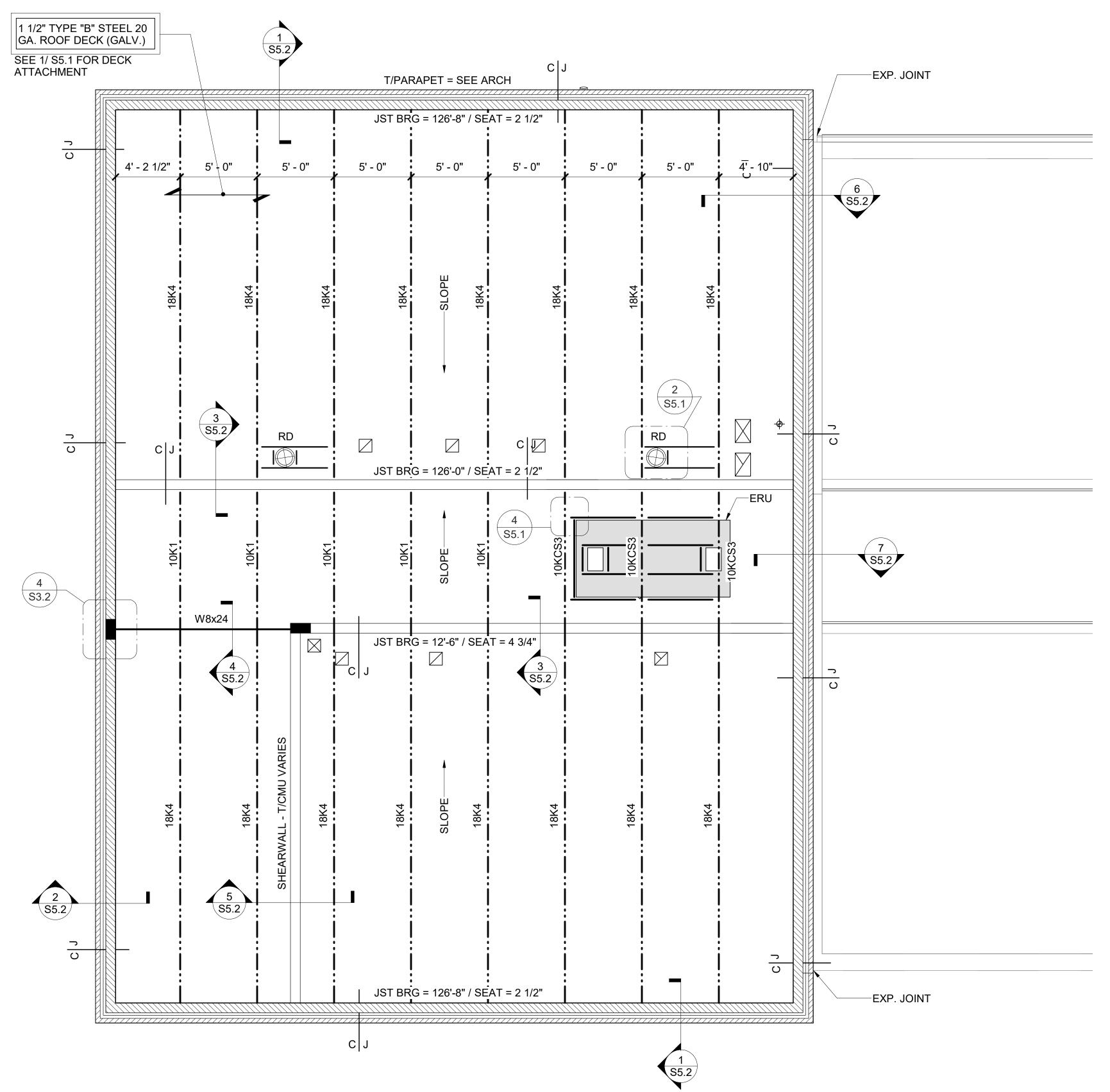
1/4" = 1'-0"

SCALE: NTS

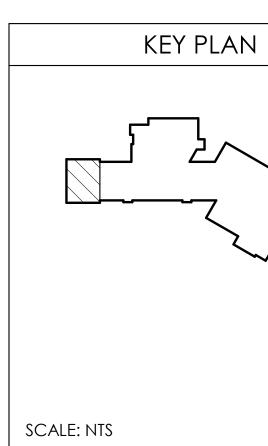


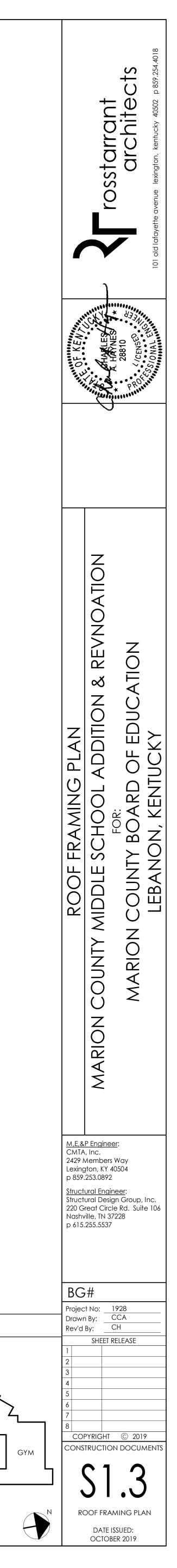




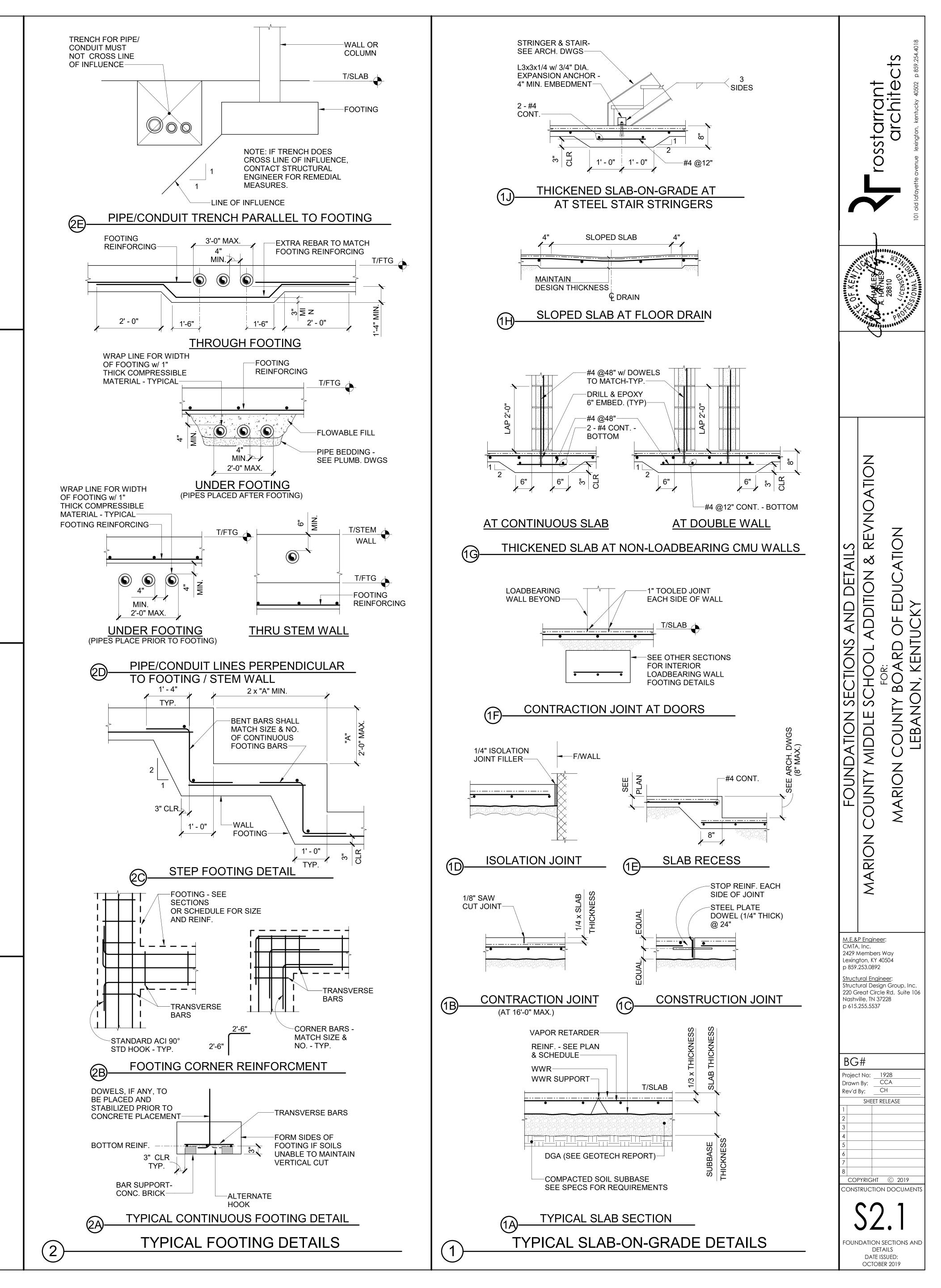


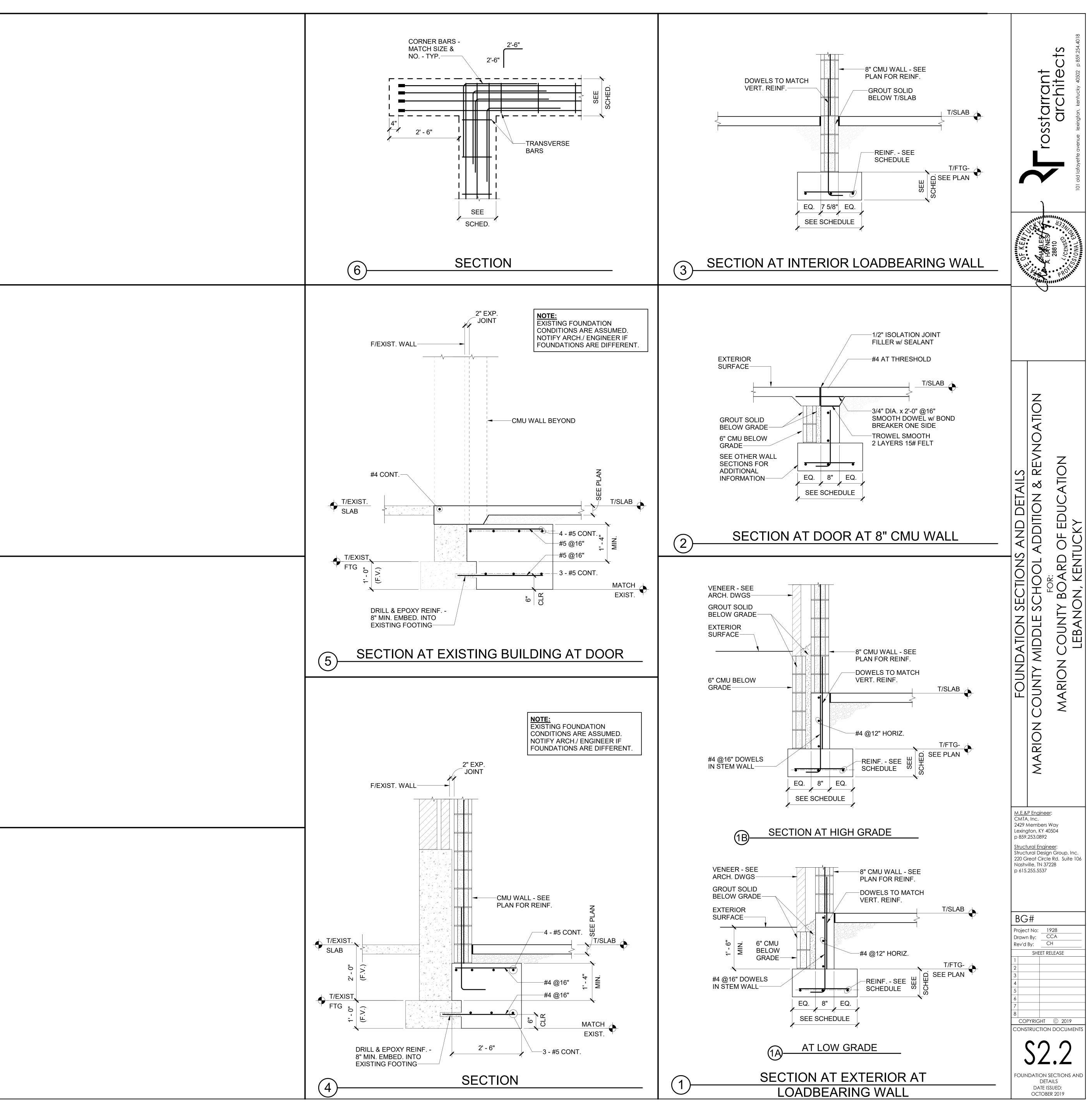
ROOF FRAMING PLAN 1/4" = 1'-0"

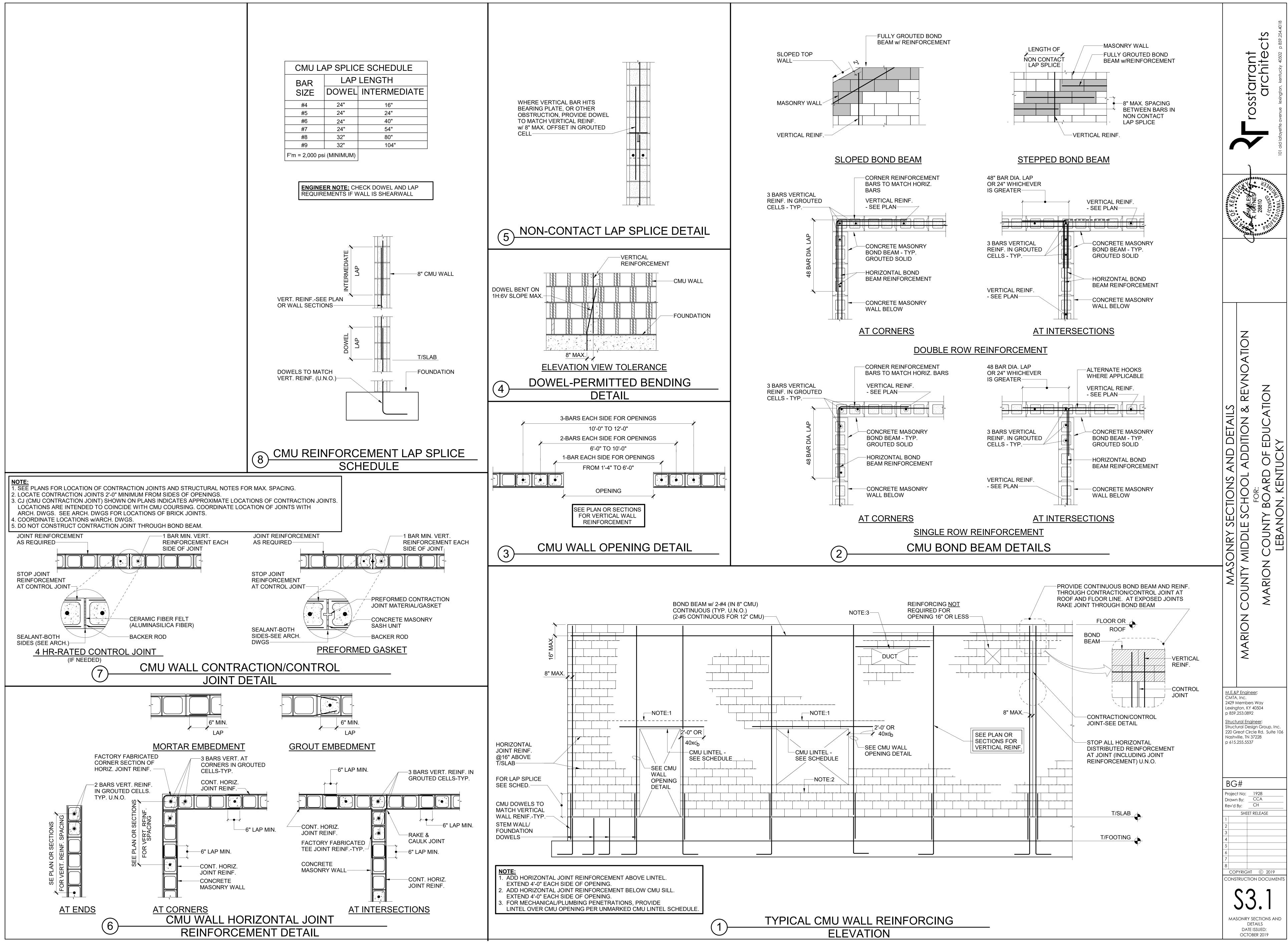


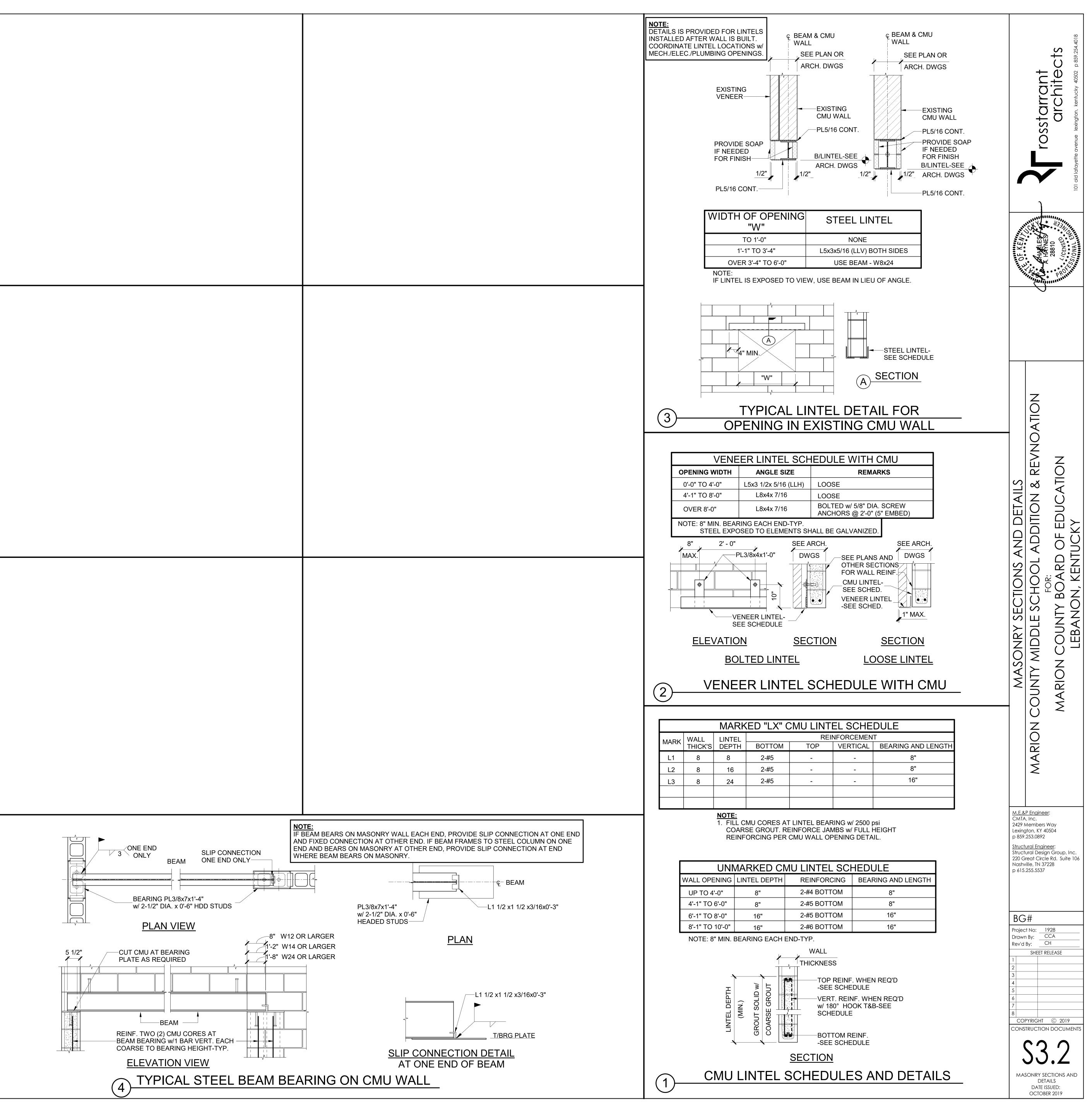


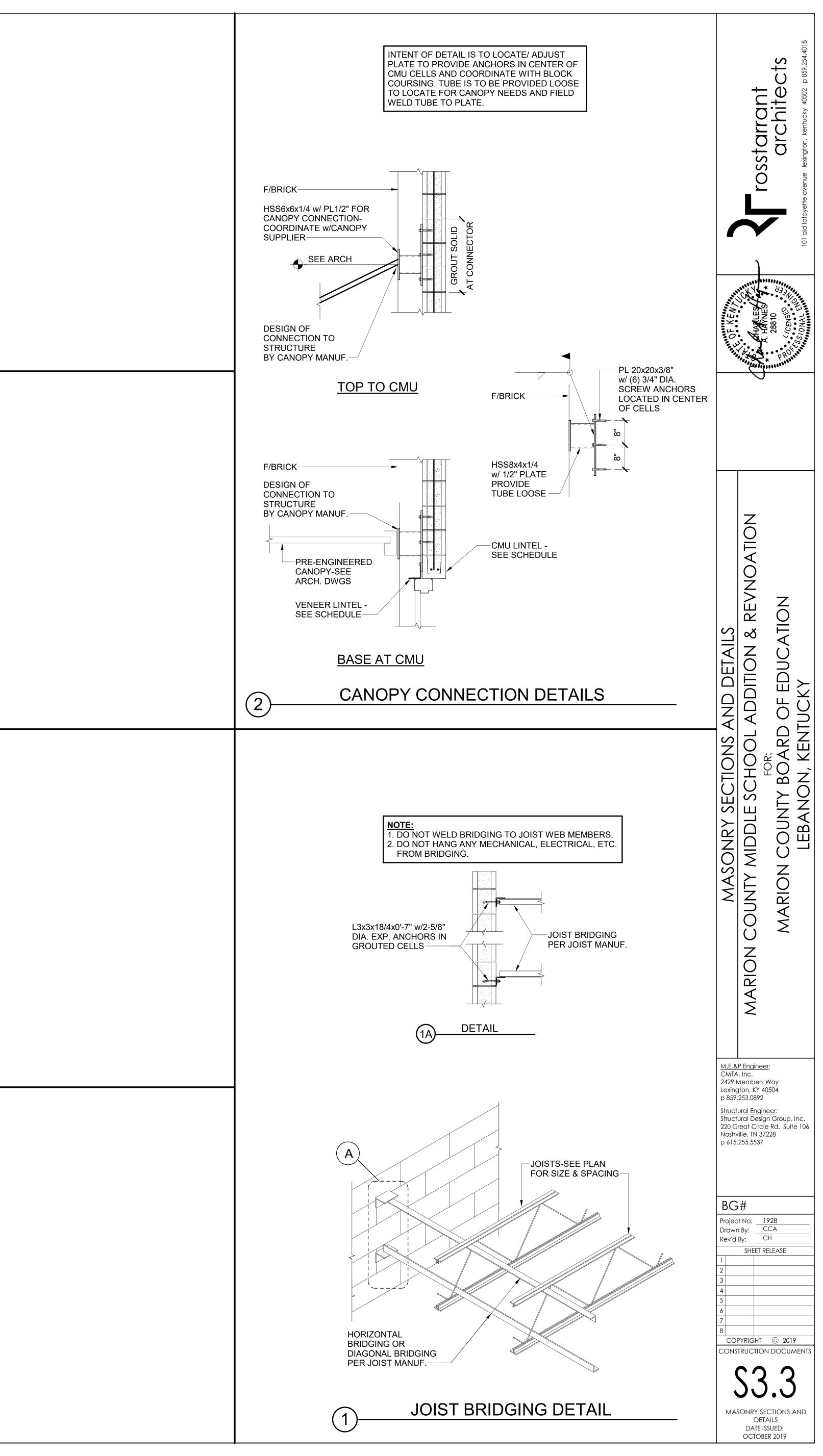
| • | |
|---|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



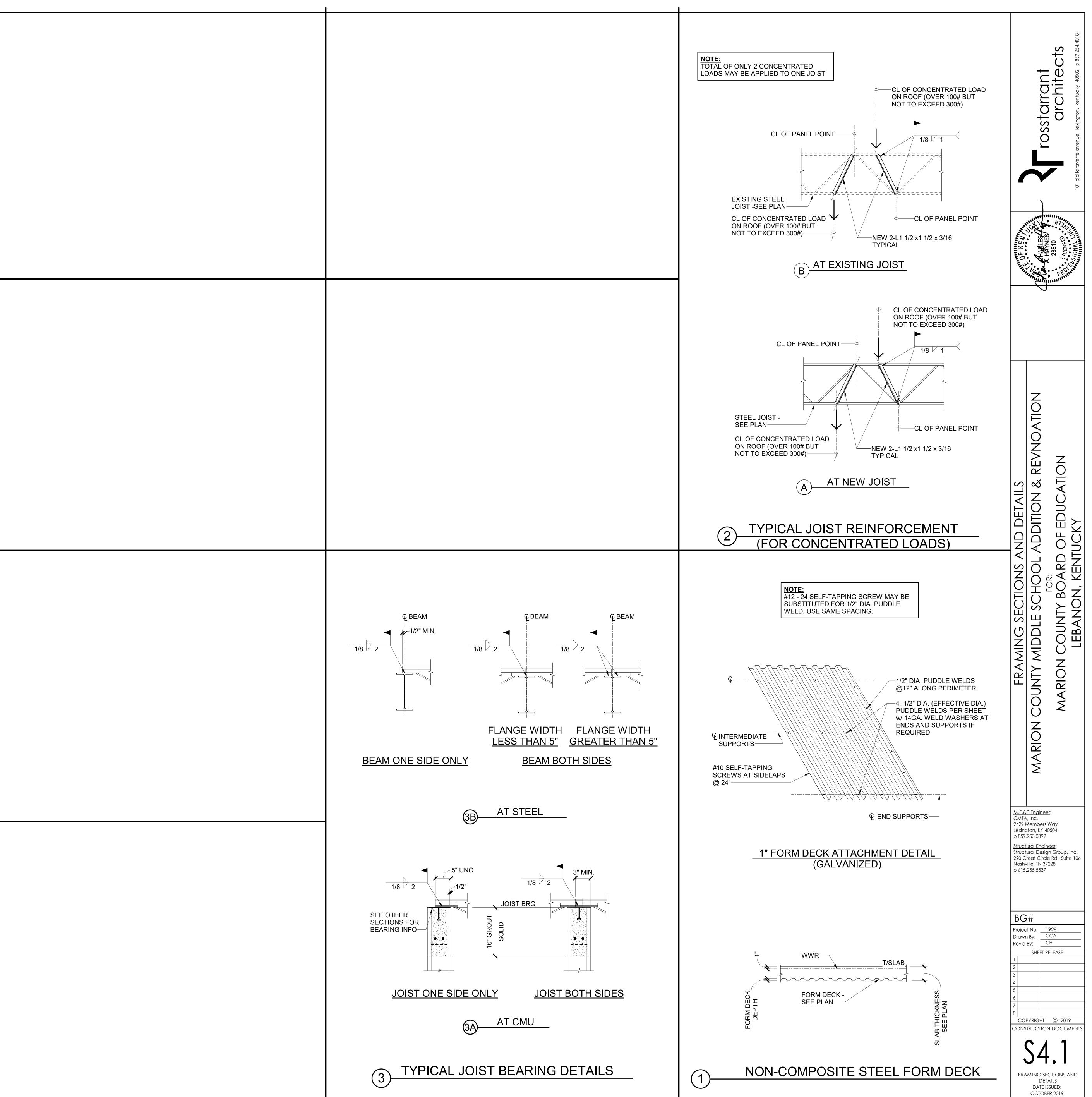


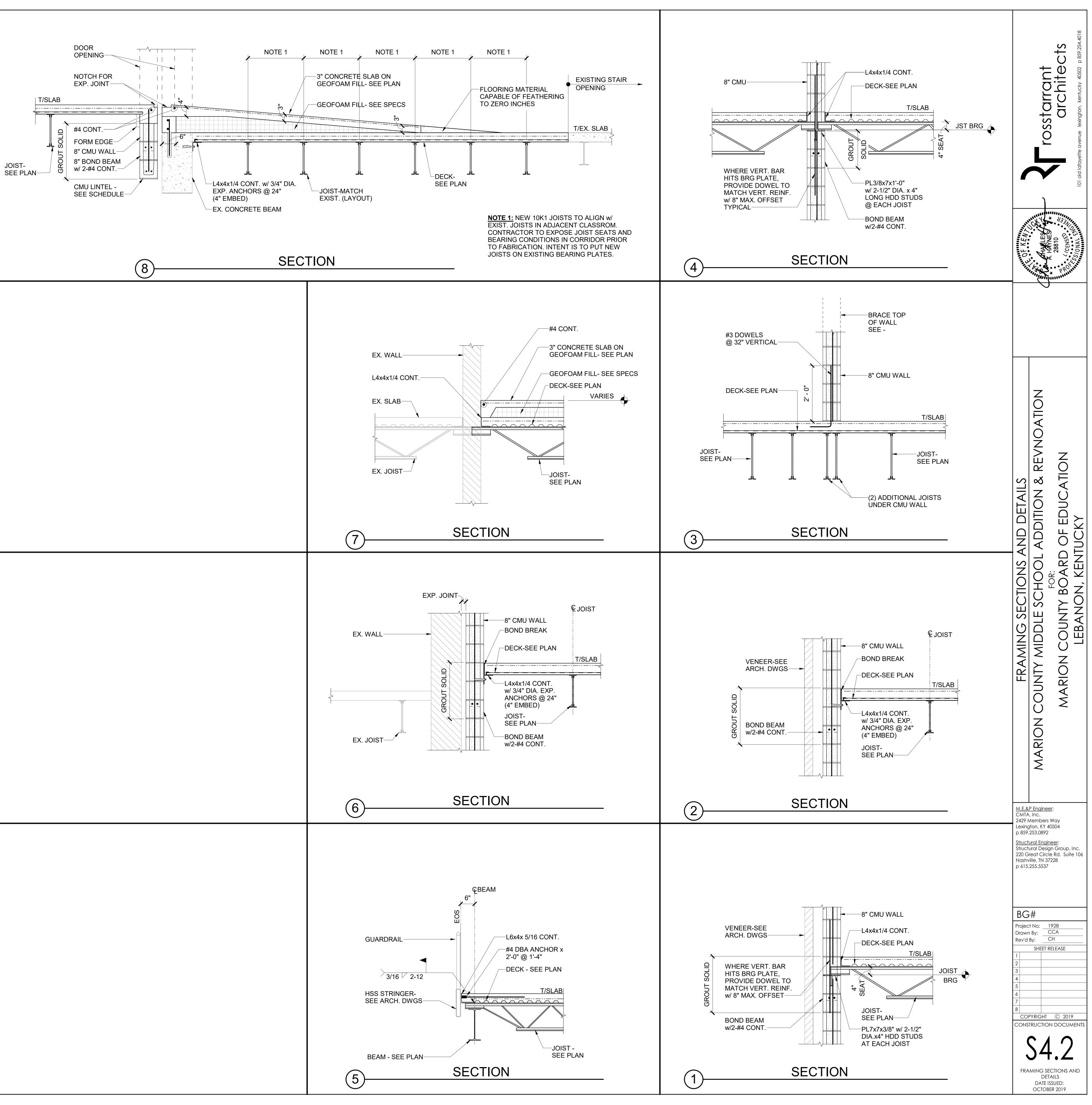




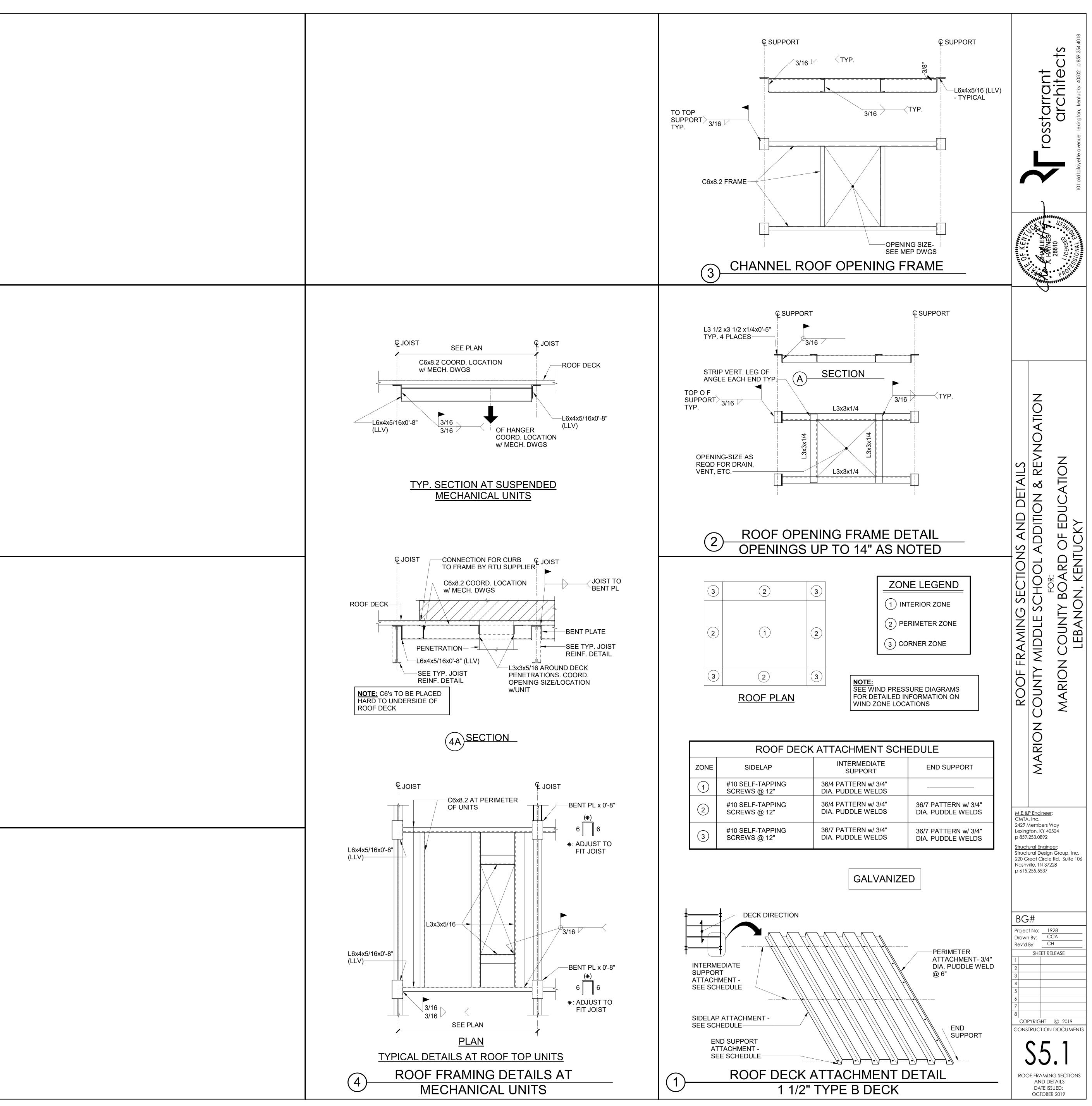


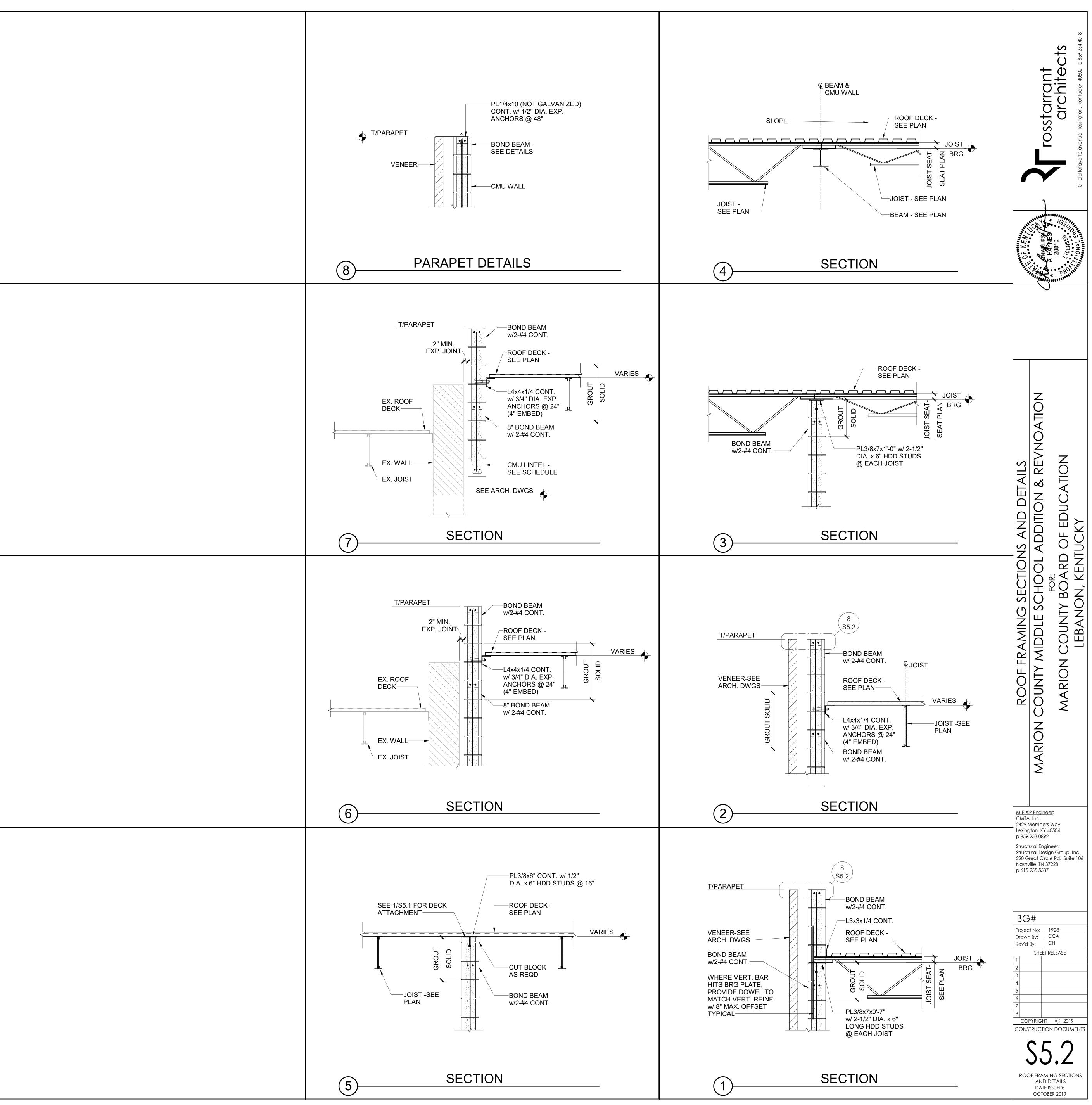
| • | |
|---|--|
| | |
| | |
| | |



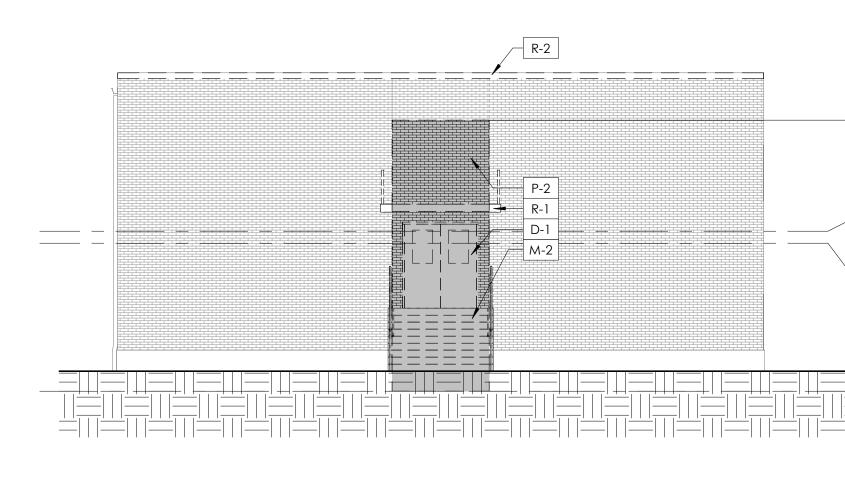


| • | |
|---|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



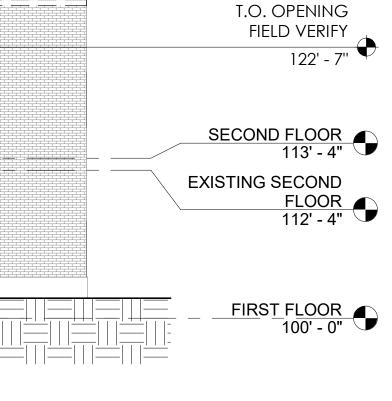


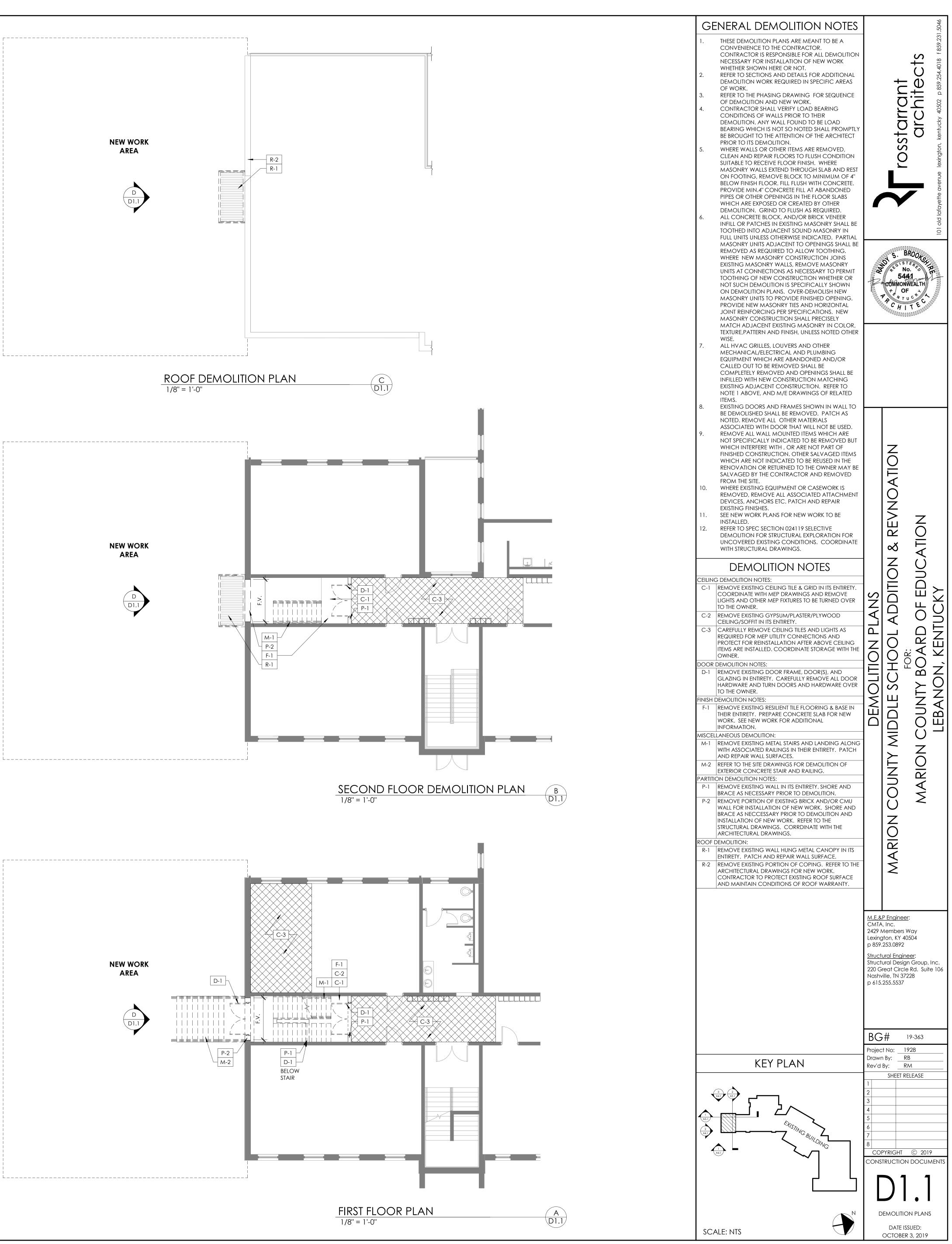


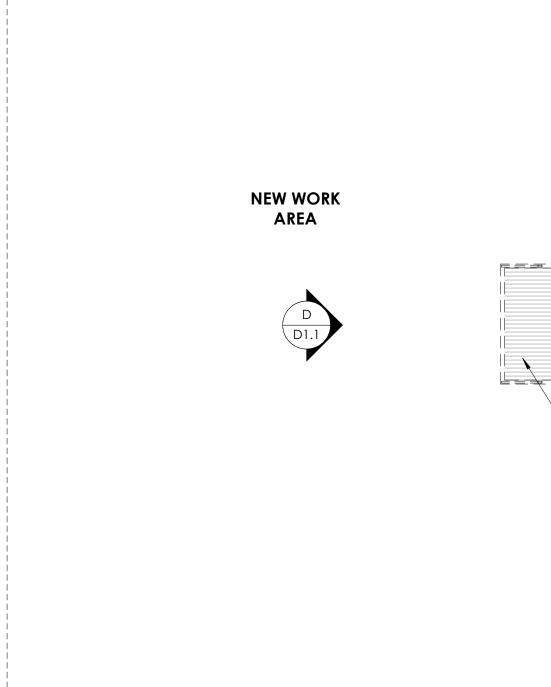


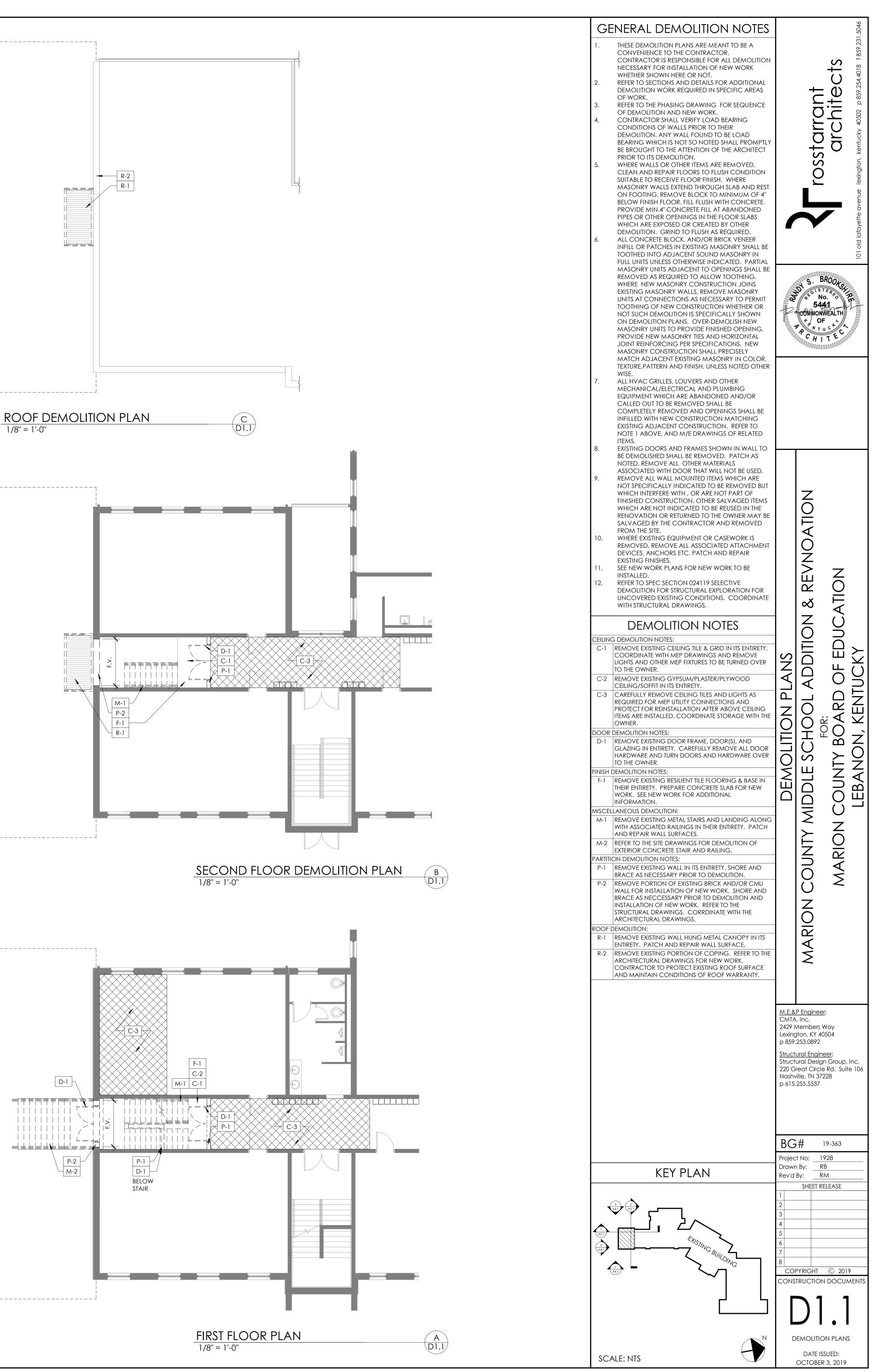
| REVISIONS | | | | |
|-----------|------|-------------|--|--|
| # | DATE | DESCRIPTION | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

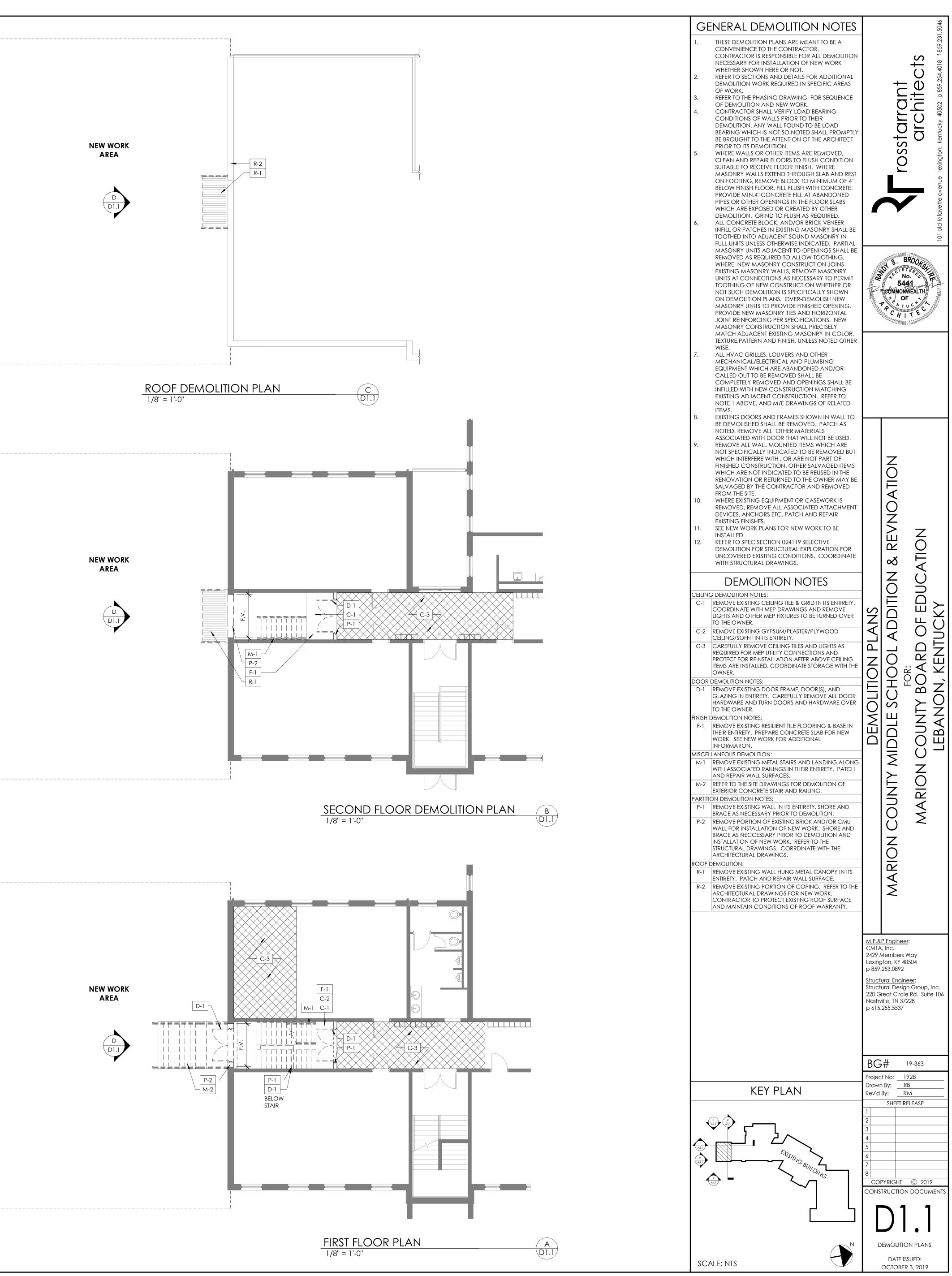




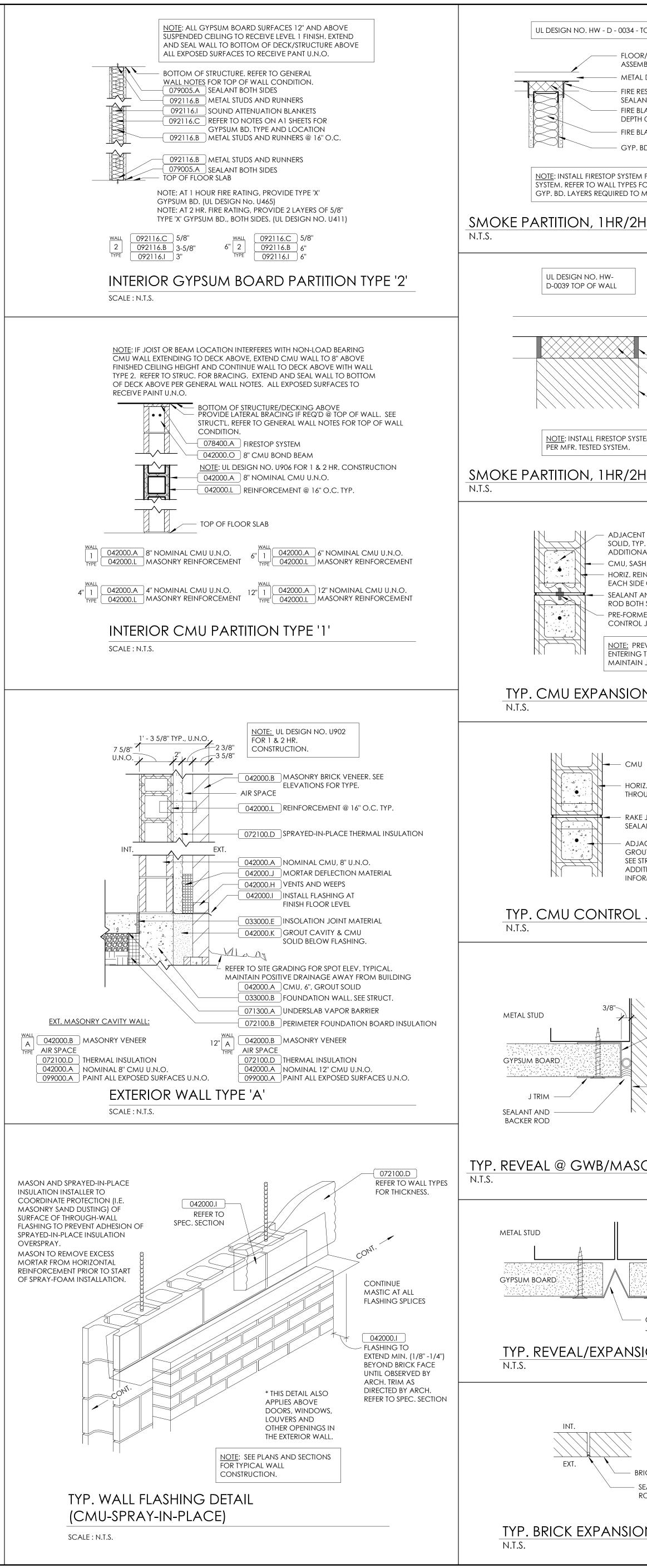






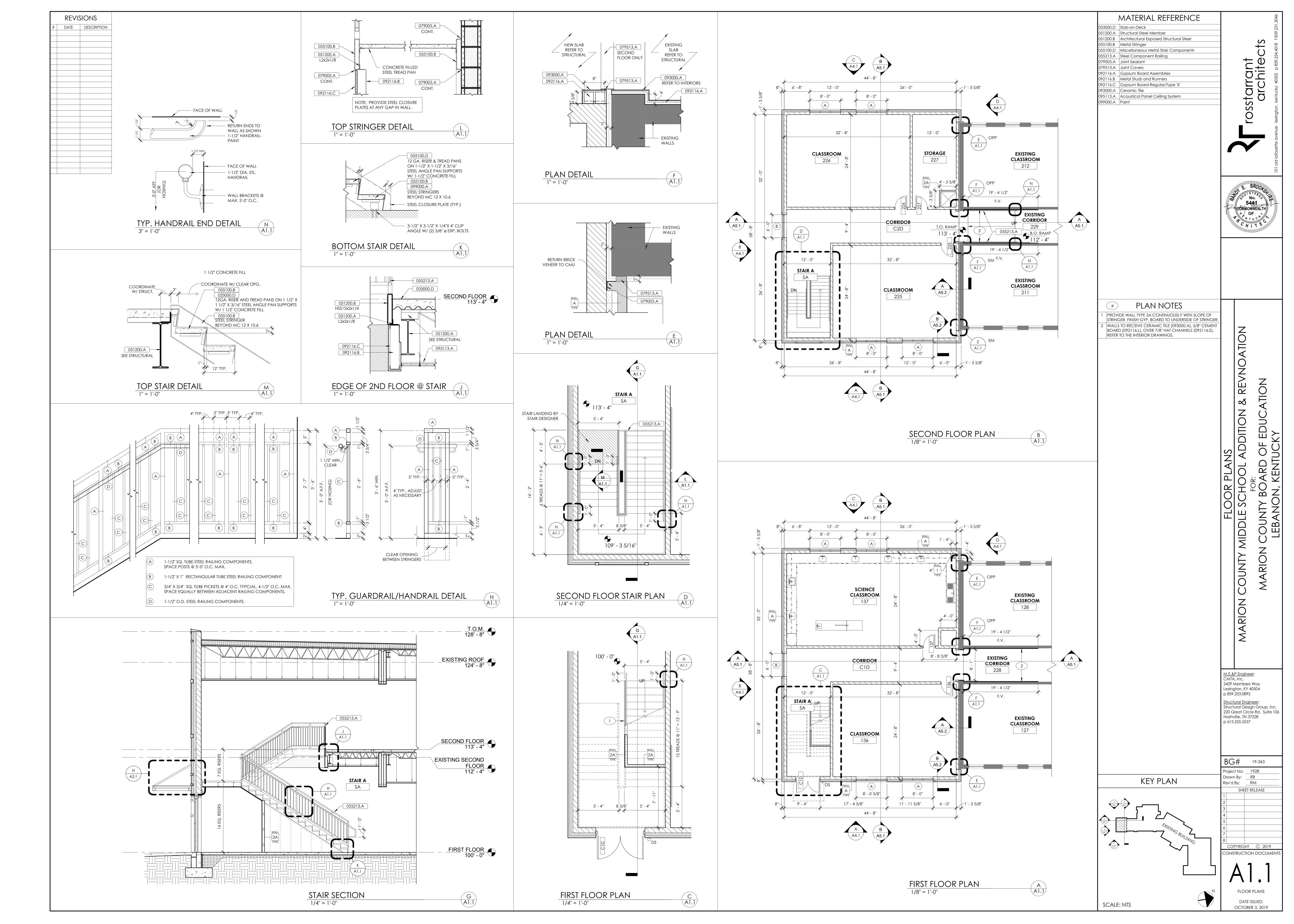


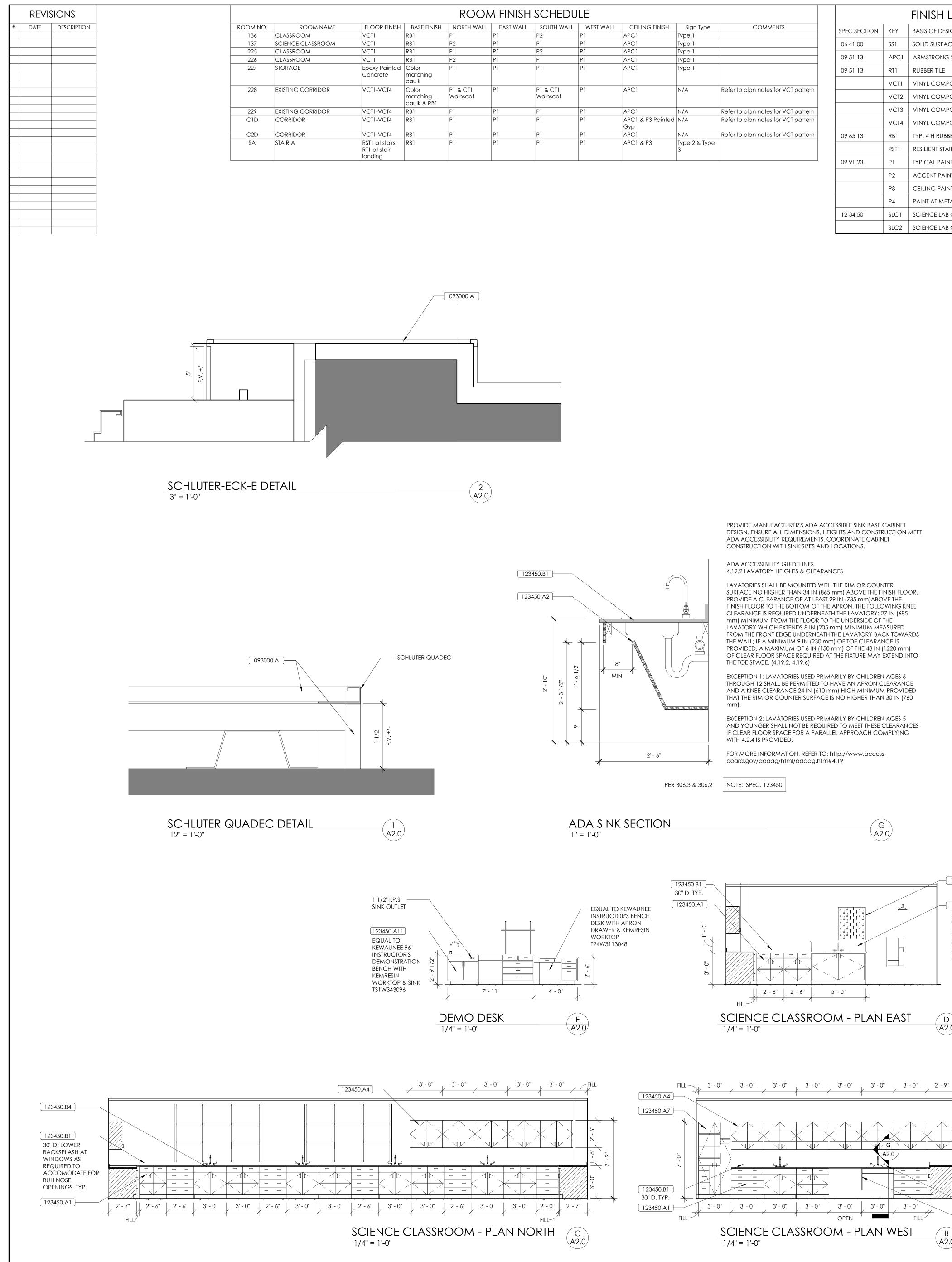
| REVISIONS | | | |
|-----------|---------------|-------------|--|
| # | REVIS DATE | DESCRIPTION | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| | AE | BREVIATIONS | | GENERAL P | lan notes | | ER MATER |
|--|---|---|------------|---|--|----------------------------------|--|
| - TOP OF WALL | ALT. ALT | OVE FINISH FLOOR ERNATE | 1. | AND INSTALLED BY OTH | CT. PROVIDED BY OWNER HERS. | 033000.B | Footing Foundation Wall Slab-on-Grade |
| OR/ROOF EMBLY | ARCH. ARC | JMINUM CHITECT/ ARCHITECTURAL ARD | 2. 3. | TAKE PRECEDENCE. | INGS. WRITTEIN DIMENSIONS | | Slab-on-Deck Isolation Joint Mate |
| TAL DECK E RESISTANT | BLKG. BLC | JMINOUS DCKING LDING | | OR TO CENTERLINE OF OTHERWISE NOTED. CO QUESTIONS REGARDIN | ONTACT ARCHITECT WITH ANY | | Granular Sub-base Concrete Masonry |
| LANT E BLANKET TO FULL TH OF WALL | B.O. BO BRG. BEA | ttom of something Aring | 4. | MASONRY DIMENSION WALL DIMENSIONS AR | IS ARE ACTUAL. EXTERIOR E TO EXTERIOR FACE OF | 042000.B 042000.H 042000.I | Face Brick Vents and Weeps Through Wall Flashi |
| BLANKET | CL. CEI CLG. CEI | NTRACTION/ CONSTRUCTION JOINT NTERLINE ILING | 5. | Shown on 1/8" plans | lans for dimensions not S. | 042000.J | Mortar Deflection N Grout |
| P. BD. WALL PARTITION | C.M.U. CC | EAR DNCRETE MASONRY UNIT DLUMN | 6. 7. | INDICATED OTHERWISE | NIS ARE WALL TYPE '1' LINILESS | | Masonry Reinforce Bond Beam |
| EM PER MFR. TESTED S FOR NUMBER OF | CONC. CC CONT. CC | oncrete ontinuous | 8. | INDICATED OTHERWISE PROVIDE BULLNOSE UN | e. NITS AT ALL VERTICAL OUTSIDE | | Cast Stone Masonr Structural Steel Mer Architectural Expos |
| O MEET RATING. | DIA. DIA DS. DO | DUBLE AMETER DWNSPOUT | 9. | NOTED. PARTITION TYPES SHALL | | 053100.A | Roof Deck Metal Stringer |
| 2hr firestop @ GWB | E.I.F.S. EXT | AWING ERIOR INSULATION FINISH SYSTEM PANSION JOINT | | RATING (IF ANY) FOR F | ULL HEIGHT. ALL MECH., | | Miscellaneous Met Steel Component F |
| | EQ. EQ EQUIP. EQ | UAL UIPMENT VATOR | 10. | SEALED / SAFED / DAM WITH APPLICABLE COE | IPERED AS REQ'D TO COMPLY DES. | 061000.A 061000.B 064100.A | Wood Blocking Plywood Sheathing Custom Casework |
|] | E.O.S. EDO E.R.D. EM | GE OF SLAB ERGENCY ROOF DRAIN OVERFLOW | 10. | LOCATIONS, CONNEC OTHER REQ. PERTAININ | TIONS, REINFORCEMENT AND | 064100.A13 | Plastic Laminate Er Solid-Surface Cour |
| FLOOR/ROOF ASSEMBLY | EXP. EXF | STING TO REMAIN PANSION FERIOR | 11. | COMPONENTS INDICA REFER TO STRUCTURAL SCHEDULE. ALL EXTERIO | DRAWINGS FOR LINTEL | 071300.A | Solid-Surface Coun Underslab Vapor Bo |
| | FDN. FO | BRICATE/ FABRICATION UNDATION ISH FLOOR ELEVATION | 12. | | DF ALL RECESSED SLABS w/ | | Perimeter Foundati Sprayed-In-Place T Transition Membrar |
| METAL DECK | FIN. FIN | ISH GRADE ELEVATION ISH DOR/ FLOORING | 13. | PRIOR TO PLACEMENT MASONRY OPENINGS ARE TYPICALLY LOCAT | IN CMU WALLS FOR DOORS | | SBS-Modified Bitum System |
| FIRE RESISTANT SEALANT | F.RT. FIRI FT. FEE | E RETARDENT T | | OPENING TO THE ADJA OTHERWISE. | ACENT WALL UNLESS NOTED | 077100.B | Fascia Coping Reglet/Counter Fla |
| FIRE BLANKET TO FULL DEPTH OF WALL | GA. GU | LD VERIFY AGE LVANIZED | 14. | LOCATED 6" FROM THE | DOOR JAMB OPENING TO | 077100.E | Expansion Joint Through-Penetratio |
| Y CMU WALL | HORZ. HO | PSUM RIZONTAL GHT | 15. | | ET BACK FROM FACE OF WALL | 079005.A 079513.A | Joint Sealant Joint Covers |
| YSTEM | | ULATION ERIOR INT | | | | | Steel Doors & Frame Steel Frame Aluminum Storefror |
| 2hr firestop @ CMU | LAM. LAM MAS. MA | MINATE SONRY CHANICAL, ELECTRICAL, PLUMBING | | GENERAL W | VALL NOTES | | Aluminum Storefror Glazing |
| | MFR. MA MAT. MA | NUFACTURER ITERIAL | 1. | REFER TO FLOOR PLAN PARTITION AND WALL | | 092116.B | Gypsum Board Asso Metal Studs and Ru Gypsum Board-Reg |
| | месн. ме | XIMUM CHANICAL MBRANE | 2. | | DRAWINGS FOR OTHER | | Sound Attenuation Ceramic Tile |
| ENT CELLS GROUTED TYP. SEE STRUCT. FOR | MISC. MIS | nimum Scellaneous Jsonry opening | 3. | | NSTITUTE ALL MEASURES | 095113.A 096513.A 099000.A | Acoustical Panel C Resilient Wall Base Paint |
| ONAL INFORMATION. ASH UNIT | N.I.C. NO | IT APPLICABLE IT IN CONTRACT IT TO SCALE | | EXTERIOR WALLS BY AL OF WATER TO THE EXTE | LOWING POSITIVE DRAINAGE RIOR TO OCCUR WHERE | 102800.A | Toilet & Bath Acces Wall Hung Metal Co |
| REINFSTOP IDE OF JOINT IT AND BACKER | O.H. OV OPP. OP | 'ERHEAD POSITE | | CAVITY WALLS FREE O | ALL DRAINAGE CAVITIES IN F MORTAR. B) PAN-UP | 123450.A 123450.A1 | Wood Laboratory (Wood Base Cabine |
| OTH SIDES RMED RUBBER | | NAMENTAL NETRATION NTE | | ENDS MINIMUM 6 INC | HING AT BACK EDGES AND HES. EXTEND THROUGH-WALL E OF MASONRY VENEER FOR | | Wood Accessible S Enclosure Panel Wood Wall Cabine |
| | P.S.F. PO | LYISOCYANURATE UNDS PER SQUARE FOOT UNDS PER SQUARE INCH | | | ARCHITECT. C) AT DVIDE WEEPS AND CAVITY IZONTALLY, ALTERNATE | 123450.A11 | Wood Full-Height W Wood Demo Desk |
| PREVENT MORTAR FROM NG THE EXPANSION JOINT. NN JOINT FREE & CLEAR. | P.T. PRE RAD. RAI | OF DRAIN | | LOCATIONS OF WEEPS ALLOW WEEPS OR CAV | WITH CAVITY VENTS. DO NOT VITY VENTS TO BECOME | | Epoxy Countertop Epoxy Under-moun |
| | REINF. REI RQD. REC | NFORCEMENT QUIRED | | FOR ADDITIONAL INFO | ER TO THE SPECIFICATIONS ORMATION ON PLACEMENT THROUGH-WALL FLASHING, | 123450.D1 | Finished End Peg Board with Drip |
| ON JOINT DETAIL | SECT. SEC SIM. SIN | /ISION/ REVISED CTION IILAR | 4. | | /metal stud wall Onry veneer/cmu walls | | |
| | S.S. STA SQ. SQI | CIFICATIONS INLESS STEEL UARE | | AND CAVITY VENTS AT | ALL FLASHING WITH WEEPS 24" O.C ALTERNATING E INSTALL THROUGH-WALL | | |
| ٨U | STL. STE | NDARD EL UCTURE/ STRUCTURAL | | | NG ON STUDS, OR CMU, PAN-UP THROUGH-WALL NIMUM 6". DO NOT | | |
| DRIZ. REINF. CONT. | SYS. SYS | MMETRICAL ITEM P OF SOMETHING | | THROUGH-WALL FLASH | EN, PENETRATE, OR PUNCTURE HING. THROUGH-WALL ALL MOISTURE TO EXTERIOR | | |
| ROUGH JOINT | | CK MCAL LESS NOTED OTHERWISE | | FACE OF WALL. KEEP / OF MORTAR. | ALL DRAINAGE CAVITIES FREE | | |
| ke joint, alant both sides | VERT. VER V.I.F. VER | RTICAL RIFY IN FIELD | 5. | INTERIOR MASONRY A SHALL EXTEND FULL HE | WISE, ALL EXTERIOR AND ND/OR MTL. STUD WALLS IGHT TO BOTTOM OF DECK | | |
| DJACENT CELLS ROUTED SOLID TYP. E STRUCT. FOR | W.P. WC | THOUT DRK POINT | | PROVIDE THE FOLLOW TOP OF EXTERIOR AND | TO REFLECTED CEILING PLAN. ING CLOSURE MATERIALS AT INTERIOR MASONRY AND | | |
| DDITIONAL FORMATION. | WT. WE | IGHT | | HEIGHT, NON-RATED M RUNNING PERPENDICU | | | |
| L JOINT DETAIL | SYM | BOLS LEGEND: | | METAL DECK FLUTE. FIL | PE GYP TO WITHIN 1/2" OF .L METAL DECK FLUTE VOID UND ATTENUATION BLANKET | | |
| | | BUILDING SECTION | | SEALANT BOTH SIDES C | DNTINUOUS ACOUSTICAL DR PROVIDE COMPRESSIBLE) FULL HEIGHT, NON-RATED | | |
| | 0.00 | | | METAL DECK FLUTES/ST | TITION RUNNING PARALLEL TO RUCTURE: STOP GYP TO DECK, INSTALL CONTINUOUS | | |
| | | SECTION CUT / DETAIL MARKER | | ACOUSTICAL SEALANT COMPRESSIBLE NEOPR | BOTH SIDES OR PROVIDE ENE FILLER. C) FULL HEIGHT, LL RUNNING PERPENDICULAR | | |
| | | ELEVATION | | OR PARALLEL TO META LAY CMU TO WITHIN 1 | " OF METAL DECK. FILL METAL MPLETELY WITH CUT TO FIT | | |
| CUT STRAIGHT EDGE | | g # Detail | | COMPRESSIBLE NEOPR | ene filler or sound 1 material and | | |
| ON GYPSUM BOARD | | REFERENCE DETAIL | | D) FIRE RATED FULL HEI AT METAL DECK/ STRUG | fical sealant both sides. Ght walls: fill all voids, Cture above, with fire | | |
| | | SPOT ELEVATION | | 078400. REFER TO DETA & GYP. BD. COLUMN S | ESCENT SEALANT PER SECTION AILS ON THIS SHEET. E) CMU SURROUNDS MAY BE STOPPED | | |
| | A State A | ROOF TYPES | 6. | sound rated wall c | NLESS PART OF A FIRE OR CONSTRUCTION. DNTROL JOINTS WHERE LOAD | | |
| | X" X | WALL TYPES. X" DENOTES | | BEARING CMU ABUTS I WHERE WALLS OF DIFF | NON-LOAD BEARING CMU OR ERENT HEIGHTS ABUT. | | |
| | TYPE | SIZE OF CMU OR STUD. DOOR NUMBER | | | | | |
| Sonry Intersection | | HOLLOW METAL WINDOW | | MATERIAL | s legend: | | |
| | | & DOOR FRAME TYPE ALUMINUM WINDOW & | ۲ <u>۹</u> | CONCRETE | FINISHED WOOD | | |
| METAL STUD | | STOREFRONT FRAME TYPE DOOR ELEVATION TYPES | | CONCRETE | | | |
| A | | E-1 WALL MOUNTED FIRE EXTINGUISHER (104400) | | UNIT | PLYWOOD | | |
| GYPSUM BOARD | F | E-2 SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER | | CLAY | | | |
| | | (104400) | | MASONRY UNIT | | | |
| — CONTROL JOINT TRIM | | | | SPLIT-FACE CONCRETE | CAVITY WALL INSULATION/PERLI TE ROOFING | | |
| sion joint detail | | | | MASONRY UNIT | | | |
| | | | | GROUND-FACE CONCRETE MASONRY UNIT | POLYISO. ROOFING INSULATION | | |
| | FIRE | BARRIER TYPES: | | | | | |
| | | <u>oke tight partition</u> : extend Rtition wall to deck above, seal Imeter to provide "Smoke tight | | | THERMAL, SOUND, OR FIRE BATT- | | |
| | INS | TALLATION". SEAL ALL PENETRATIONS | | | INSULATION | | |
| BRICK - SEE PLAN - SEALANT AND BACKER | | OUR RATING: PROVIDE FIRE SAFING AT IDS AT THE TOP PERIMETER OF THE RTITION AND FIRESAFE ALL PENETRATIONS. | | STEEL | BOARD | | |
| ROD, 3/8" JOINT, TYP. | со | RIFY WITH STRUCTURAL DRAWINGS AND ORDINATE WITH WALL SECTIONS. | | ALUMINUM | SPRAY-IN- PLACE | | |
| ON JOINT DETAIL | | <u>OUR RATING</u> : PROVIDE FIRE SAFING AT IDS AT THE TOP PERIMETER OF THE RTITION AND FIRESAFE ALL PENETRATIONS. | | | THERMAL INSULATION | | |
| | VER | RIFY WITH STRUCTURAL DRAWINGS AND ORDINATE WITH WALL SECTIONS. | | | | | |
| | | | | | | | |

| Wall de kk ht Material b-base asonry Unit Veeps Il Flashing ection Material nforcement Masonry Units eel Member al Exposed Structural Steel er us Metal Stair Components onent Railing ing eathing eework nate Enclosure Panel e Countertop e Countertop | | IDI OID IATO IDI OID IATO IDI OID IDI ATO IDI |
|--|---|---|
| apor Barrier oundation Board Insulation Place Thermal Insulation embrane d Bituminous Membrane Roofing nter Flashing pint | Antonio Realigned | S. BROOSH S. TEACHART S441 COMMONWEALTH + OF $-$ |
| tetration Fire Stop System t Sard Assemblies and Runners ard Assemblies and Runners ard-Regular/Type 'X' mation Blankets base & Accessories accessories tetal Canopy atory Casework Cabinet sible Sink Base Cabinet & Slant anel Cabinet eight Wardrobe Cabinet w/ Lock b Desk tertop w/ Backsplash r-mount Sink i with Drip Trough & Hose - Resin | GENERAL ARCHITECTURAL DETAILS | MARION COUNTY MIDDLE SCHOOL ADDITION & REVNOATION FOR: MARION COUNTY BOARD OF EDUCATION LEBANON, KENTUCKY |
| | CMTA 2429 N Lexing p 859. <u>Struct</u> 220 G Nashv | <u>P Engineer</u> : , Inc. Members Way gton, KY 40504 253.0892 <u>ural Engineer</u> : ural Design Group, Inc. reat Circle Rd. Suite 106 rille, TN 37228 255.5537 |
| | | th No: 1928 n By: RB By: RM SHEET RELEASE Image: |
| | GEN | TRUCTION DOCUMENTS AODI ERAL ARCHITECTURAL DETAILS DATE ISSUED: OCTOBER 3, 2019 |





| | | FINISH LEGEND |
|--------------|------|--|
| SPEC SECTION | KEY | BASIS OF DESIGN |
| 06 41 00 | SS1 | SOLID SURFACE WINDOW SILLS |
| 09 51 13 | APC1 | ARMSTRONG 2X4 - FINE FISSURED |
| 09 51 13 | RT1 | RUBBER TILE |
| | VCT1 | VINYL COMPOSITION TILE - ARMSTRONG - COLOR NO.1 |
| | VCT2 | VINYL COMPOSITION TILE - ARMSTRONG - COLOR NO.2 |
| | VCT3 | VINYL COMPOSITION TILE - ARMSTRONG - COLOR NO.3 |
| | VCT4 | VINYL COMPOSITION TILE - ARMSTRONG - COLOR NO.4 |
| 09 65 13 | RB1 | TYP. 4"H RUBBER COVE BASE |
| | RST1 | RESILIENT STAIR TREAD & RISER |
| 09 91 23 | P1 | TYPICAL PAINT |
| | P2 | ACCENT PAINT |
| | P3 | CEILING PAINT |
| | P4 | PAINT AT METAL |
| 12 34 50 | SLC1 | SCIENCE LAB CASEWORK - WOOD BASE & WALL CABINETS |
| | SLC2 | SCIENCE LAB CASEWORK - EPOXY COUNTERTOP |

NIC, OWNER -PROVIDED CASEWORK

PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEE ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET

4.19.2 LAVATORY HEIGHTS & CLEARANCES

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 IN (865 mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 IN (735 mm) ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE LAVATORY: 27 IN (685 mm) MINIMUM FROM THE FLOOR TO THE UNDERSIDE OF THE LAVATORY WHICH EXTENDS 8 IN (205 mm) MINIMUM MEASURED FROM THE FRONT EDGE UNDERNEATH THE LAVATORY BACK TOWARDS THE WALL; IF A MINIMUM 9 IN (230 mm) OF TOE CLEARANCE IS

PROVIDED, A MAXIMUM OF 6 IN (150 mm) OF THE 48 IN (1220 mm) OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO

EXCEPTION 1: LAVATORIES USED PRIMARILY BY CHILDREN AGES 6 THROUGH 12 SHALL BE PERMITTED TO HAVE AN APRON CLEARANCE AND A KNEE CLEARANCE 24 IN (610 mm) HIGH MINIMUM PROVIDED

THAT THE RIM OR COUNTER SURFACE IS NO HIGHER THAN 30 IN (760

EXCEPTION 2: LAVATORIES USED PRIMARILY BY CHILDREN AGES 5 AND YOUNGER SHALL NOT BE REQUIRED TO MEET THESE CLEARANCES IF CLEAR FLOOR SPACE FOR A PARALLEL APPROACH COMPLYING

G A2.0

123450.E2

123450.A

EQUAL TO

CAMPBELL RHEA

6641 WALL SINK

W/30"D EPOXY

COUNTER &

EPOXY RESIN

123450.C1

SWIVEL EYEWASH -(123450.D1)

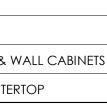
RINSE SINK

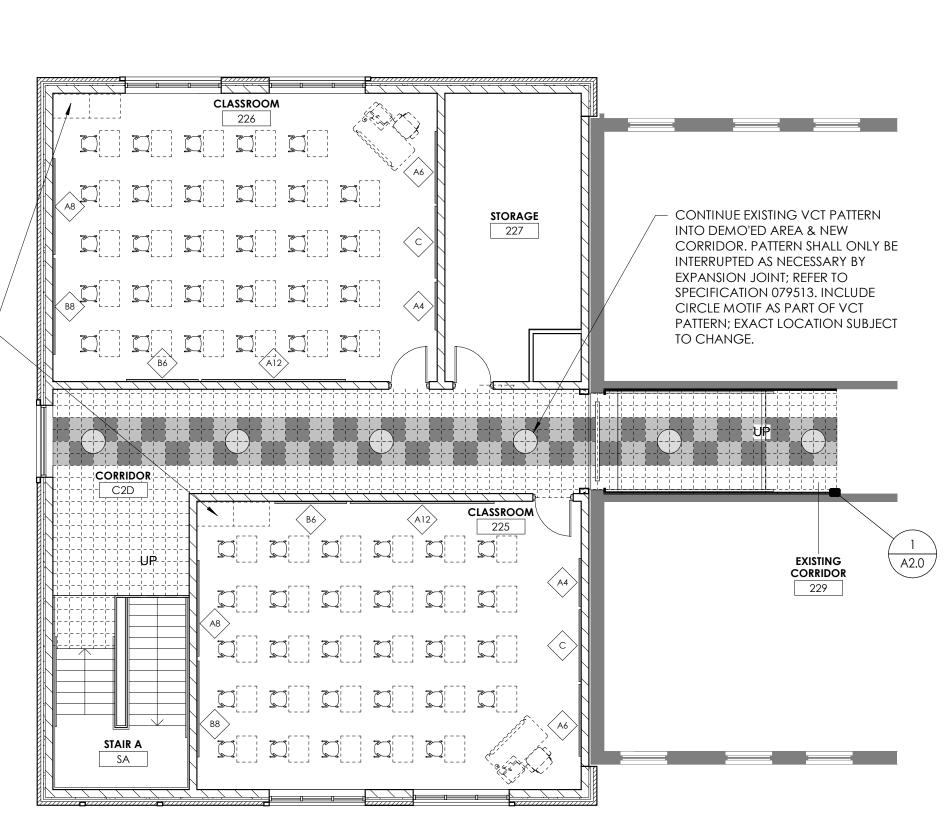
D (A2.0)

B A2.0

CONSTRUCTION WITH SINK SIZES AND LOCATIONS.

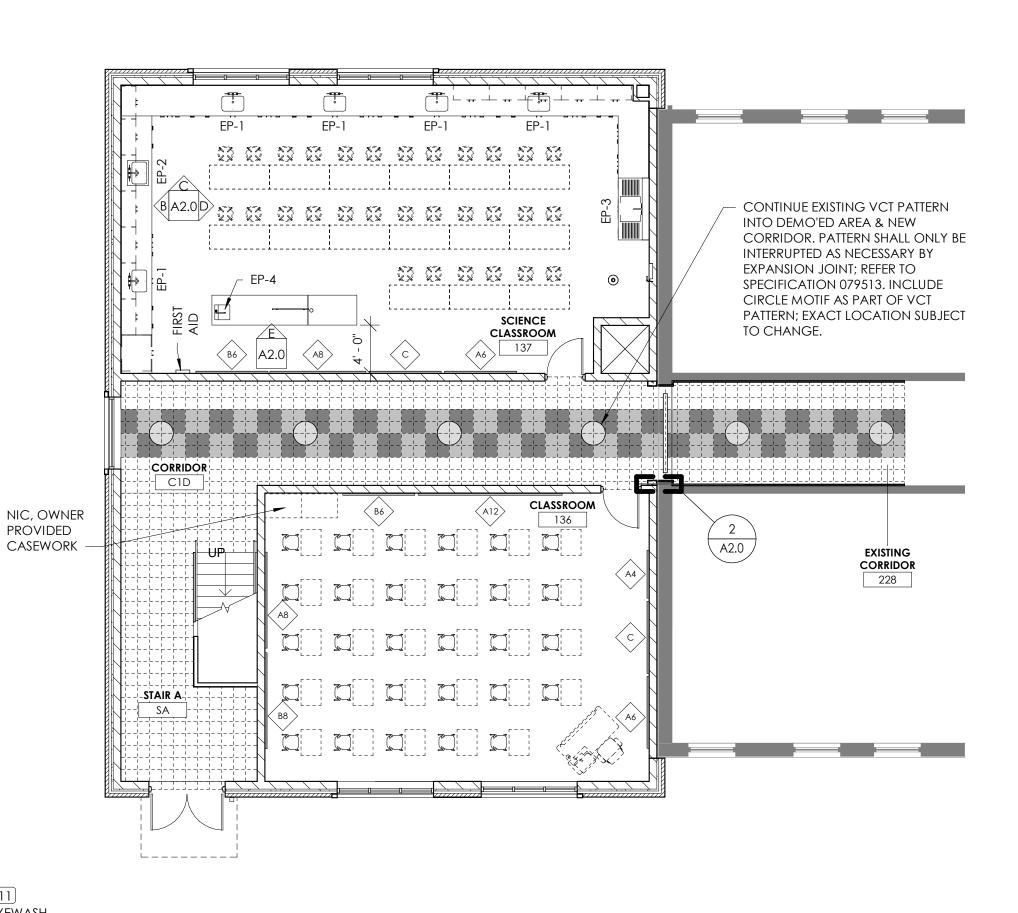
| OPTIMUM MOUNTING HEIGHTS | | EQUIPMENT LE | GEND | / | MATERIAL |
|---|-----------------------|-----------------------------------|------------------------|--------------------------------------|--|
| ITEM (DIMENSION TO) | | (A4) 4' -0"W X 4"-0"H MARKERBOARD | REFER TO SPECIFICATION | 093000.A 123450.A 123450.A1 | Ceramic Tile Wood Laboratory Wood Base Cabi |
| VISUAL DISPLAY BOARDS - MARKER, TACK, CHALK | TOP 78" BOTTOM 30" | 6' -0''W X 4''-0''H MARKERBOARD | REFER TO SPECIFICATION | 123450.A2 | Wood Accessible Enclosure Panel |
| COUNTERTOP: STANDING POSITION (TOP) | 34" | A12 12' -0"W X 4"-0"H MARKERBOARD | REFER TO SPECIFICATION | 123450.A4 123450.A7 123450.A11 | Wood Wall Cabir Wood Full-Height Wood Demo Des |
| DESKTOP/TABLETOP: SEATED POSITION (TOP) | 24" | B6 6' -0"W X 4"-0"H TACKBOARD | REFER TO SPECIFICATION | 123450.B1 123450.B4 | Epoxy Counterton Epoxy Under-mou |
| PANIC DEVICE DOOR HARDWARE (CENTERLINE) | 36" | 8' -0"W X 4"-0"H TACKBOARD | REFER TO SPECIFICATION | 123450.C11 123450.D1 123450.E2 | Eyewash Finished End Peg Board with D |
| FIRE EXTINGUISHER CABINET (BOTTOM) | 32" | C OWNER PROVIDED SMARTBOARD | NIC | 123430.LZ | |
| FIRE EXTINGUISHER CABINET (CENTER OF VALVE LINE) | 64" | | | | |
| COAT HOOK (CENTERLINE) | 48" | | | | |





VCT1: COLOR NO DTE: NEW VCT VCT3: COLOR NEXISTING VCT4: COLOR NO.4

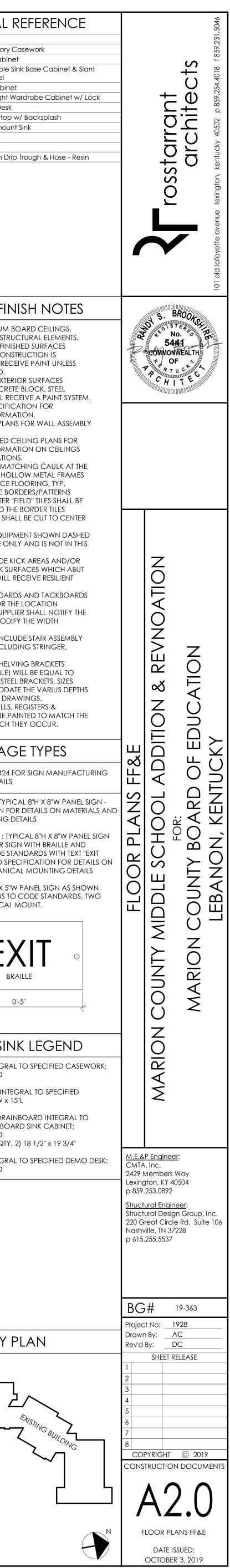
SECOND FLOOR PLAN - FF&E F A2.0

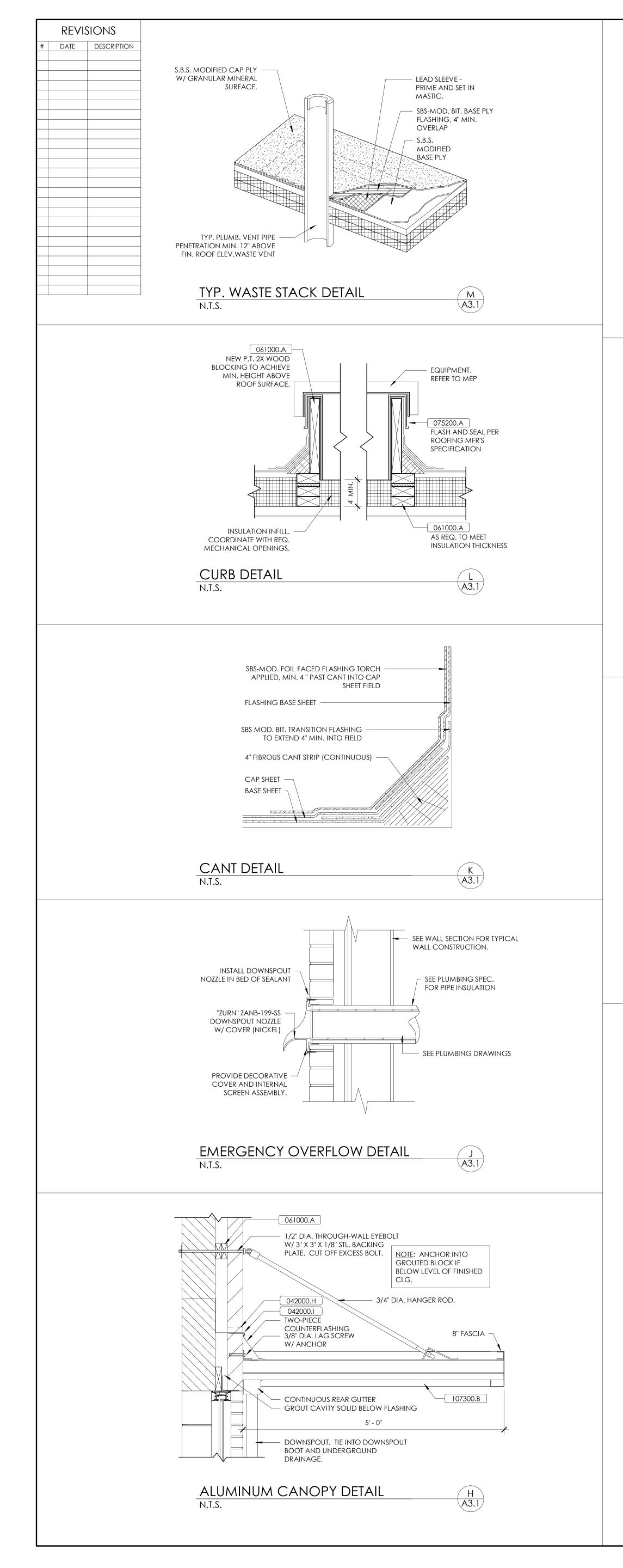


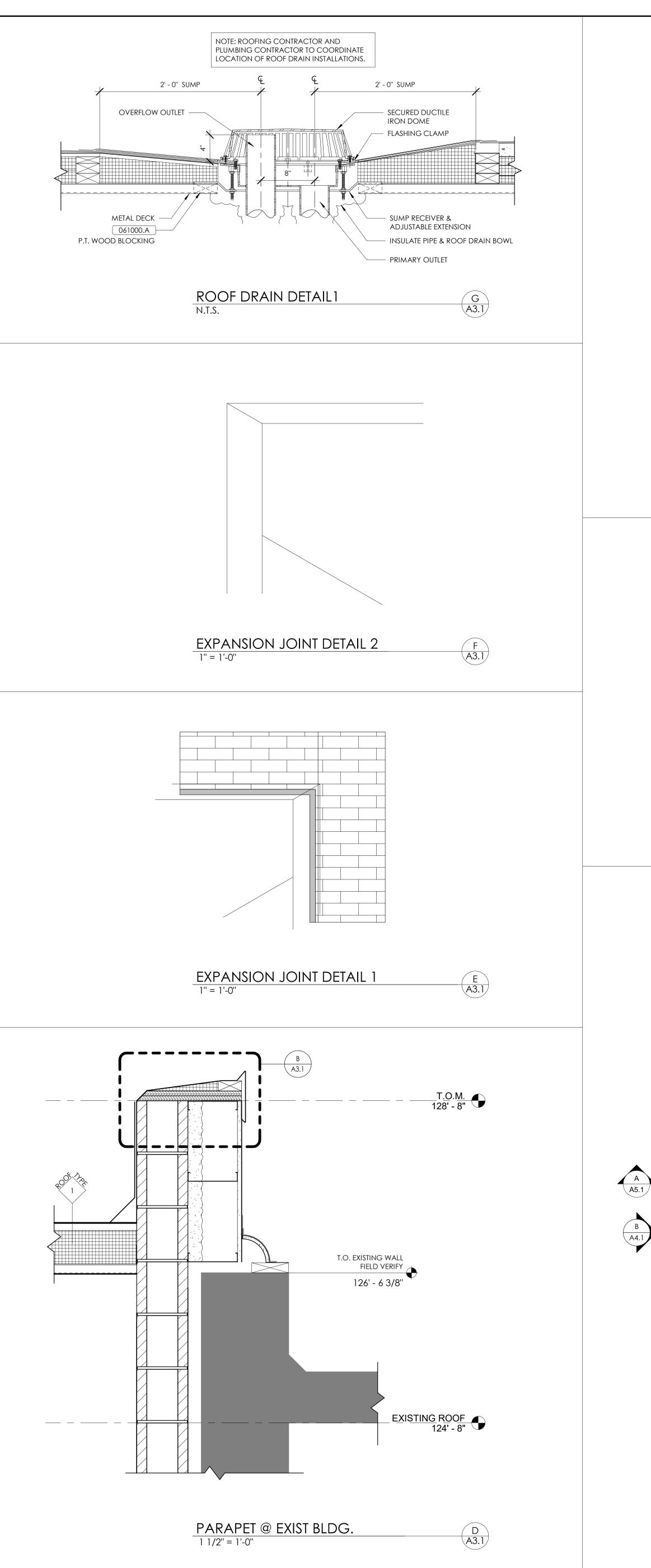
| | ROO | M | FIN |
|----------------------|---|---------------------|------------------------------|
| 1. | ALL WALLS, C METAL DECK CONDUIT, AI EXPOSED AF | ling Ll U Ter | , stru(nfinisi const |
| 2. | COMPLETE S OTHERWISE N ALL UNFINISH INCLUDING LINTELS, ETC. | 101 HED COI | ed. Exteri Ncrete |
| 3. | REFER TO THE ADDITIONAL REFER TO FLO TYPES. | INF | ORMA |
| 4. | REFER TO REF ADDITIONAL AND SOFFIT I | . INF LOC | ORMA ATION |
| 5. | PROVIDE CC INTERSECTIO AND HARD S WHERE FLOC | N O URF | F HOLL ACE FL |
| | OCCUR, THE FULL SIZE TILE ALONG THE | CEI ES AI WAI | NTER "F |
| 7. | THE FIELD TIL ALL FURNITU IS FOR REFER CONTRACT. | re/e Enc | CE ONL |
| 8. | ALL CASEWO OTHER CASE FLOOR FINISI BASE. | WO | rk sur |
| 9. | WHERE MAR ARE TOO WII INDICATED, | de f The | OR THE SUPPLI |
| 10. | DESIGNER AI ACCORDING PAINTING SH COMPONEN | GLY. IALL | INCLU |
| 11. | HANDRAILS, COUNTERTO (WHERE APPI A&M HARDV | etc P & LIC/ | SHELVI ABLE) V |
| 12. | SHALL ACCO INDICATED II ALL LOUVERS | DMN N TH S, G | 10dat Ie dra' Rills, F |
| | DIFFUSERS SH SURFACE ON | | |
| SEE S | | | AG |
| AND | TYPE 1 (TYPIC | 1 DE | TAILS |
| MEC | r to specific hanical mo type 2 (exit s | UNT | ING DI |
| WITH CON STAIR | SYMBOL; EXIT FORMING TO 2 DOWN'' - REF ERIALS AND M | r sta CC ER 1 | AIR SIG DE STA TO SPE |
| BELO | TYPE 3 (EXIT) W THAT CONI WS FOR MEC | FOR | ms to |
| - | | ſ | - \ |
| 0'-3" | | Ľ | E Z BRA |
| | -↓ -↓ | | 0' |
| | | ·\\ | |
| EP-1 | EPOXY SINK 25"W x 15"L | | EGRAL |
| EP-2 | ADA EPOXY CASEWORK | 'SIN | K INTEC |
| EP-3 | epoxy sink specified d 24''W x 16''L | RAI | NBOAF |
| EP-4 | DRAINBOAF EPOXY SINK 15''W x 18''L | INT | Egral |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | K | EY P |
| | | | |
| 1 A5.1 2 | | | 2 |
| A4.1 | | | |
| | | | |

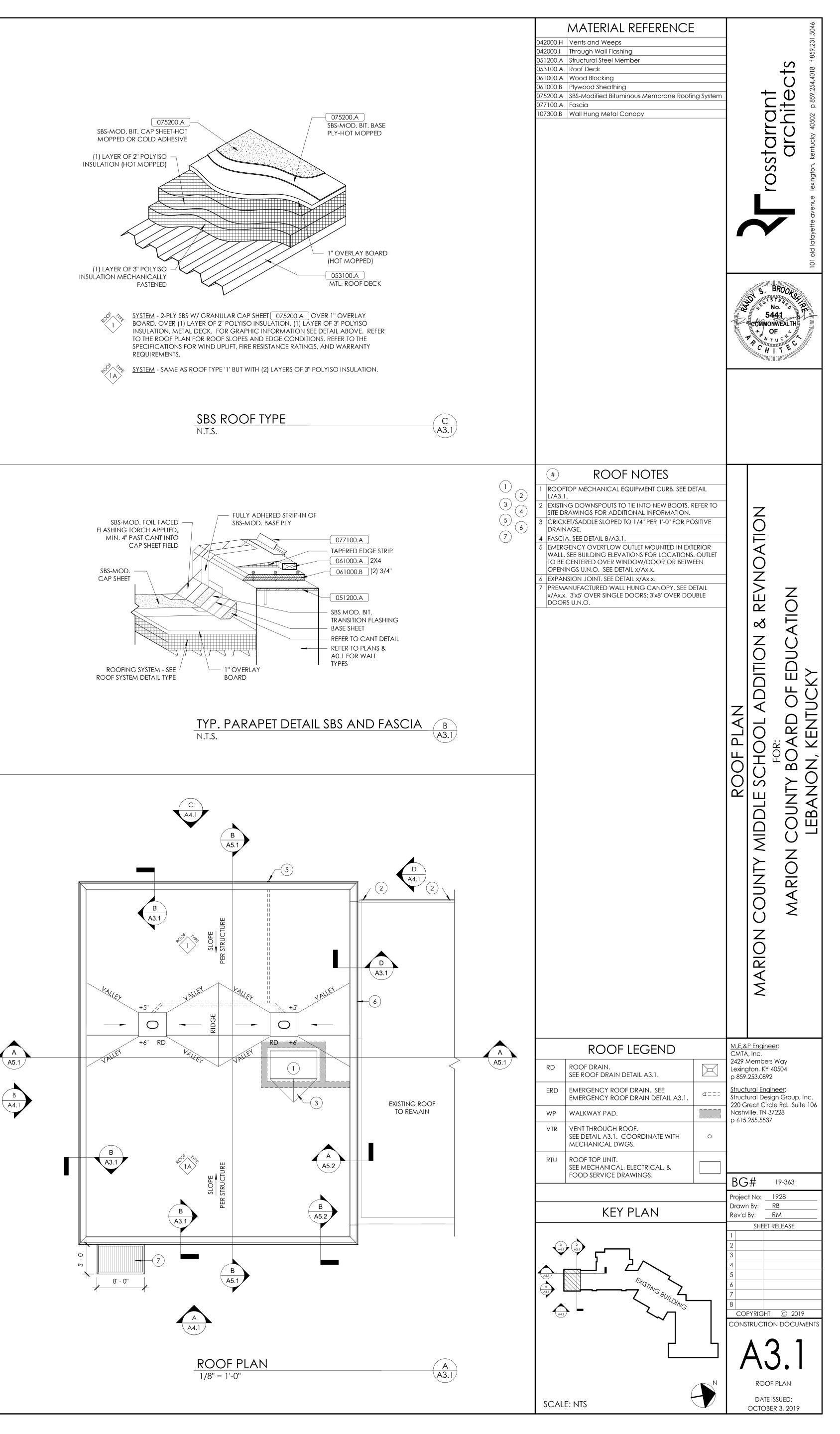
FIRST FLOOR PLAN - FF&E 1/8" = 1'-0"

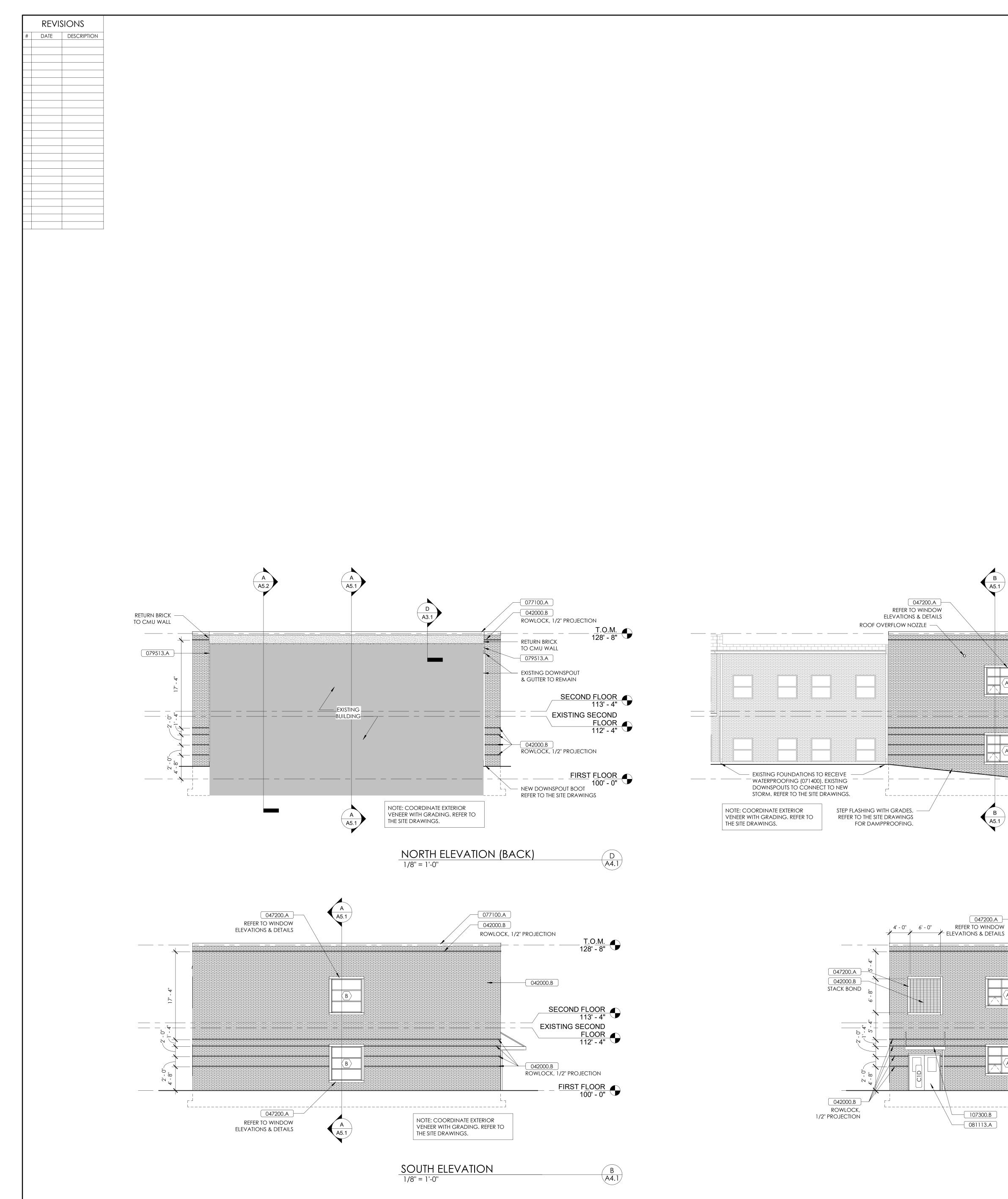
A (A2.0)

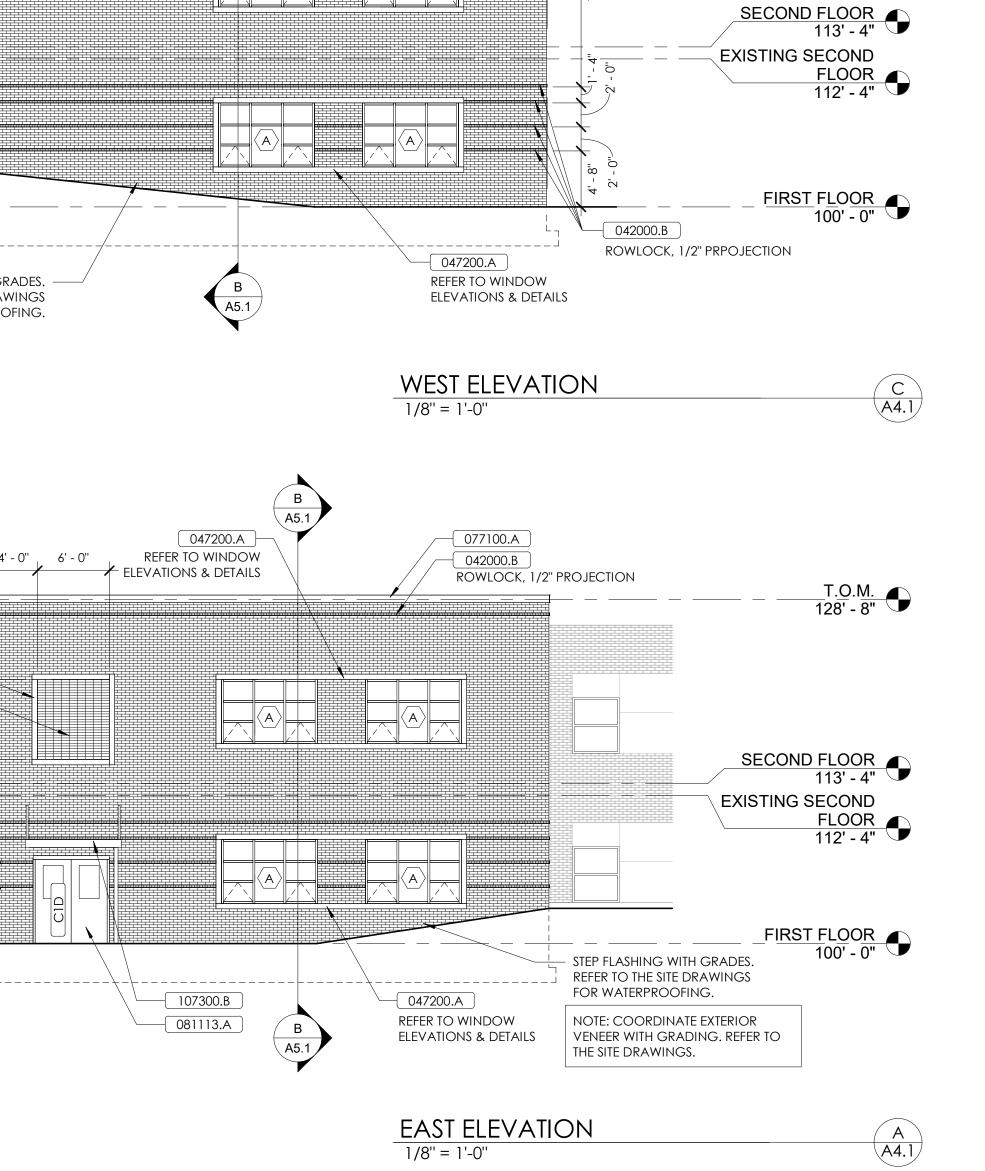










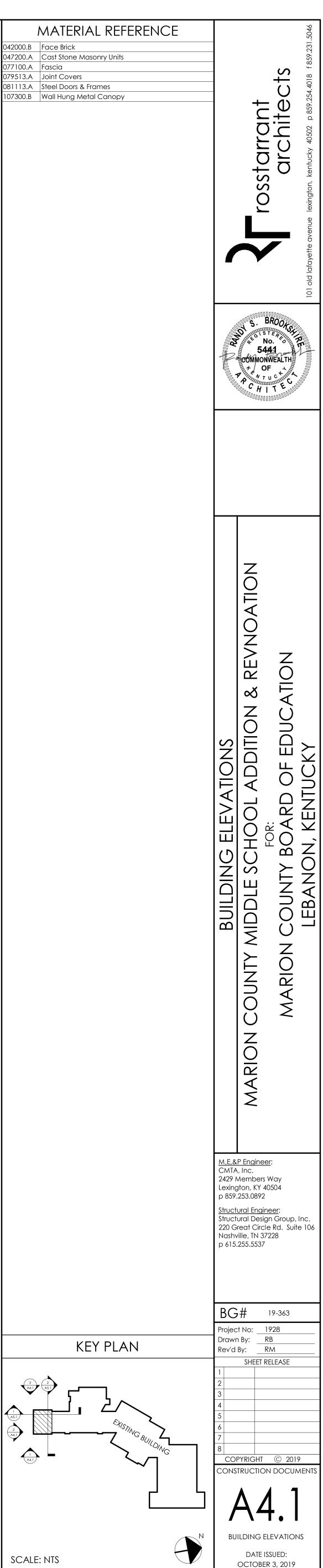


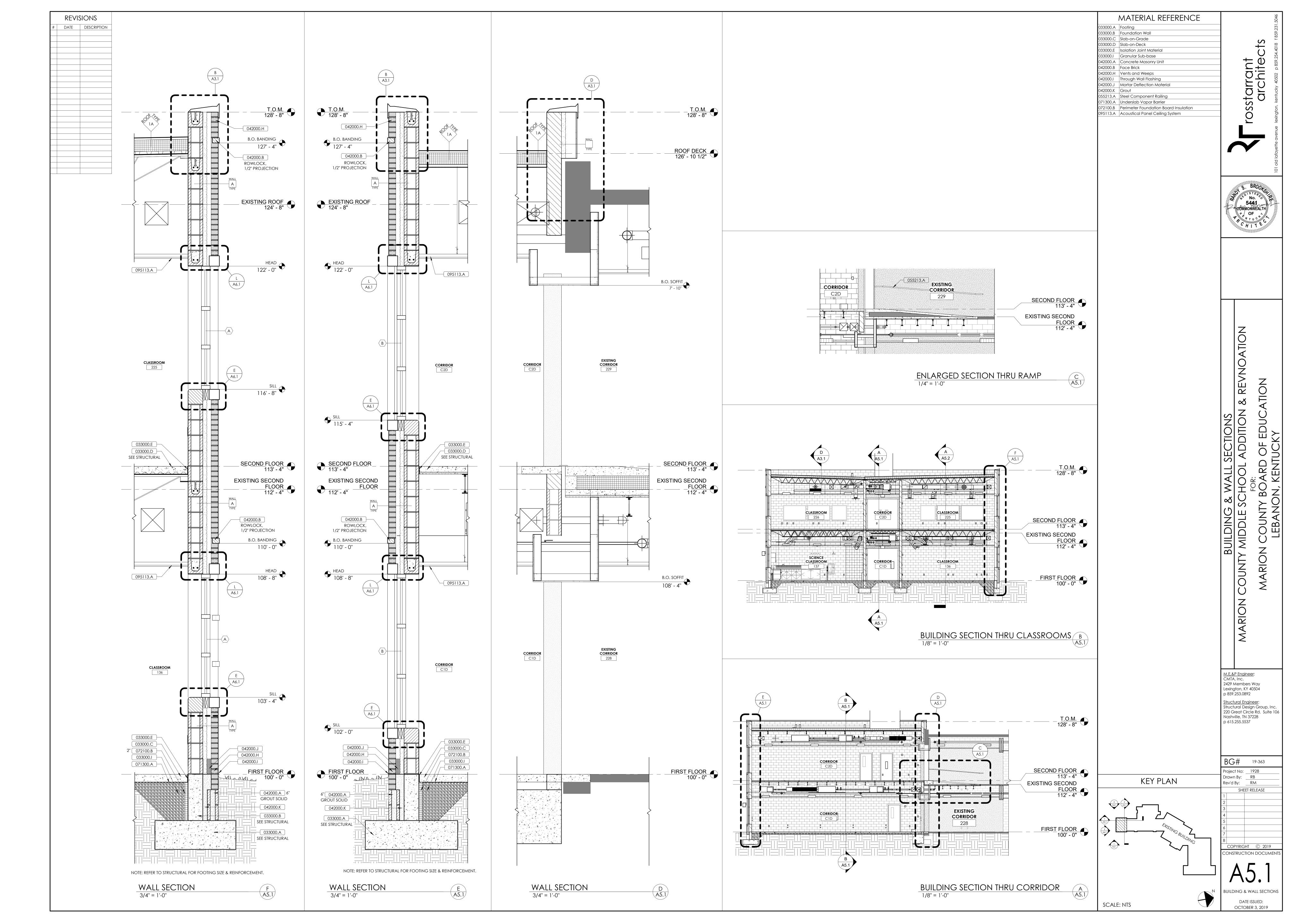
A5.1

- 077100.A

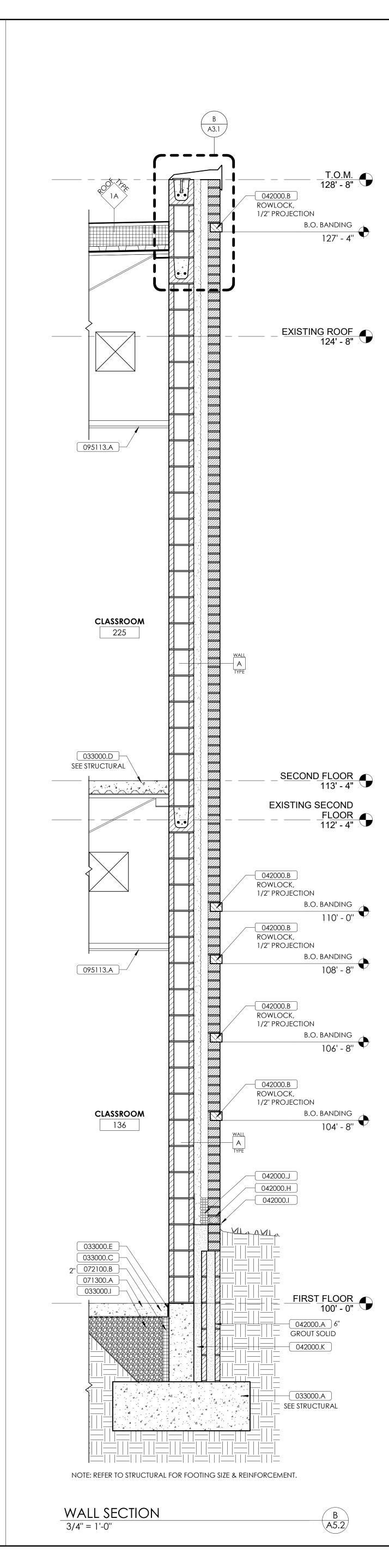
O42000.B ROWLOCK, 1/2" PRPOJECTION

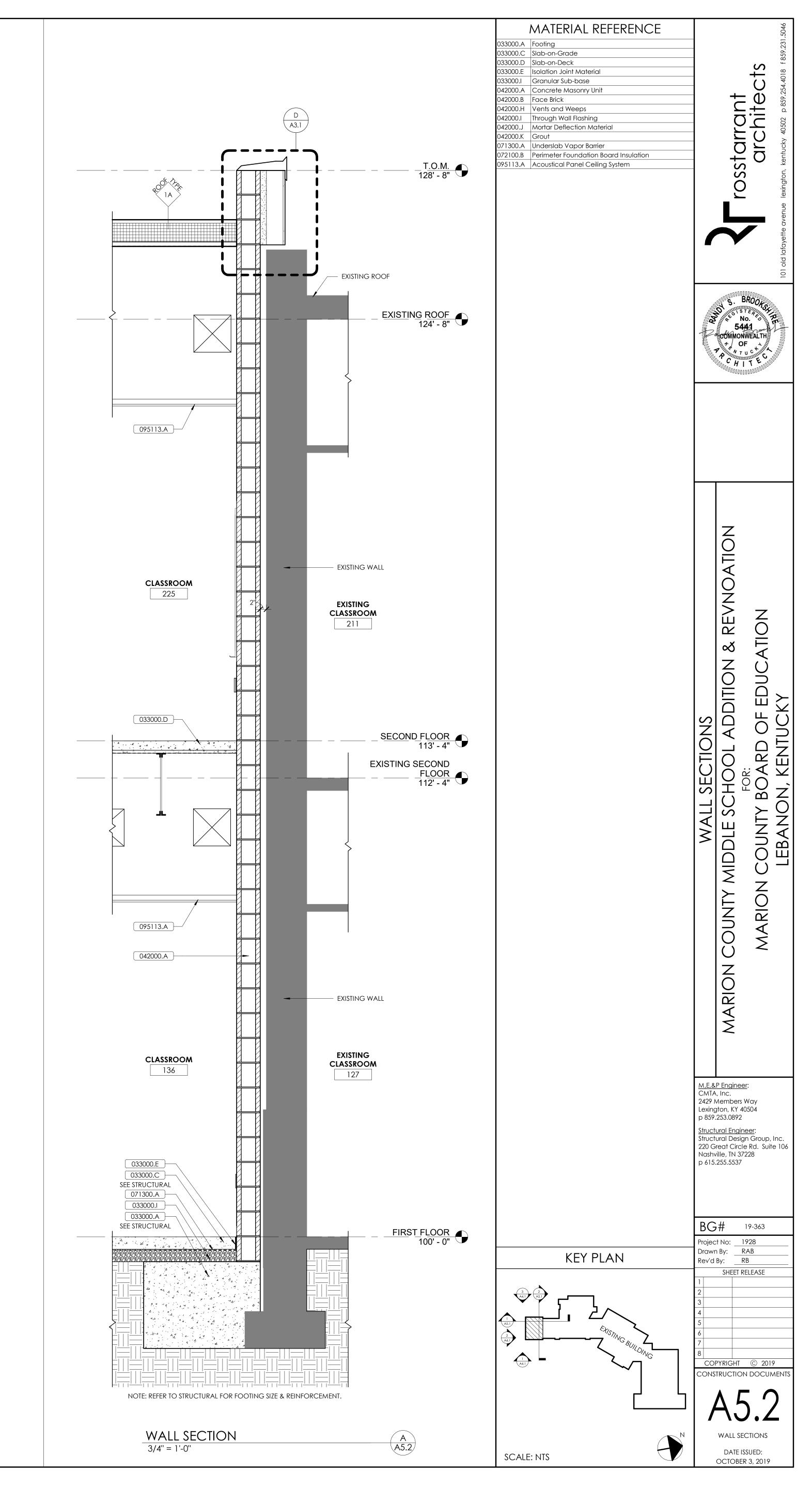
____<u>T.O.M.</u>_____



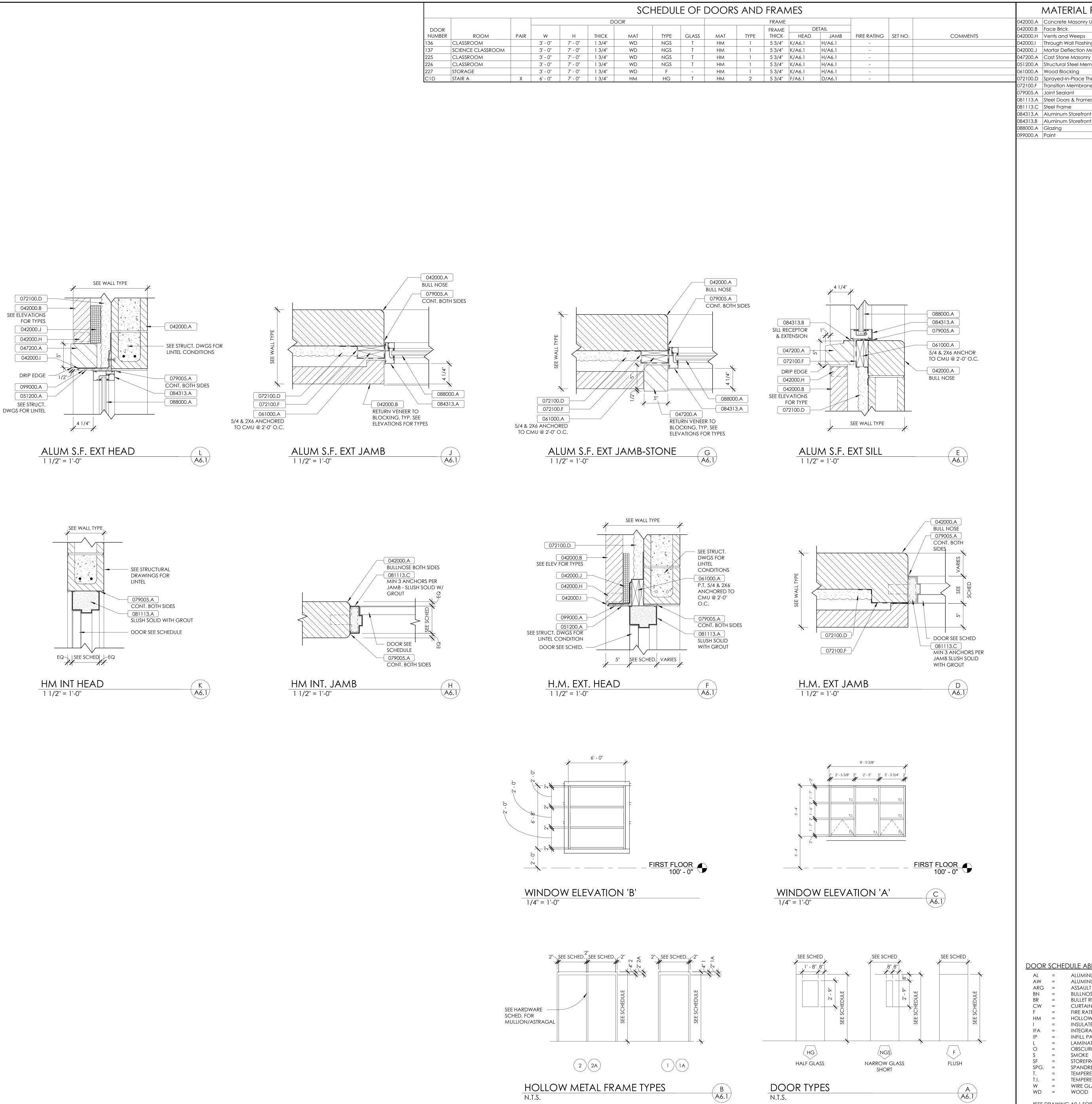


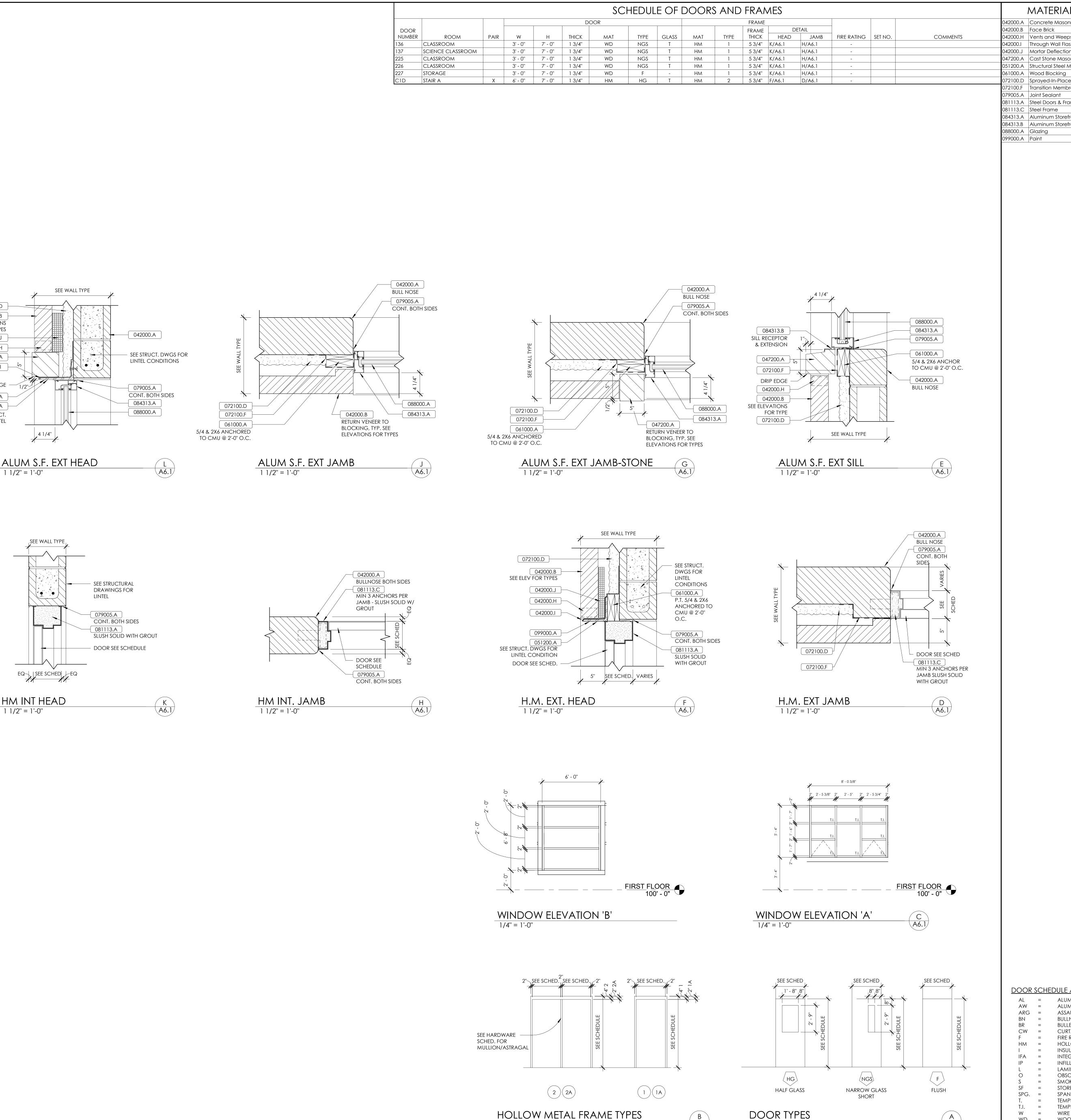
| REVISIONS | | | | |
|-----------|------------------|--|--|--|
| # | DATE DESCRIPTION | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

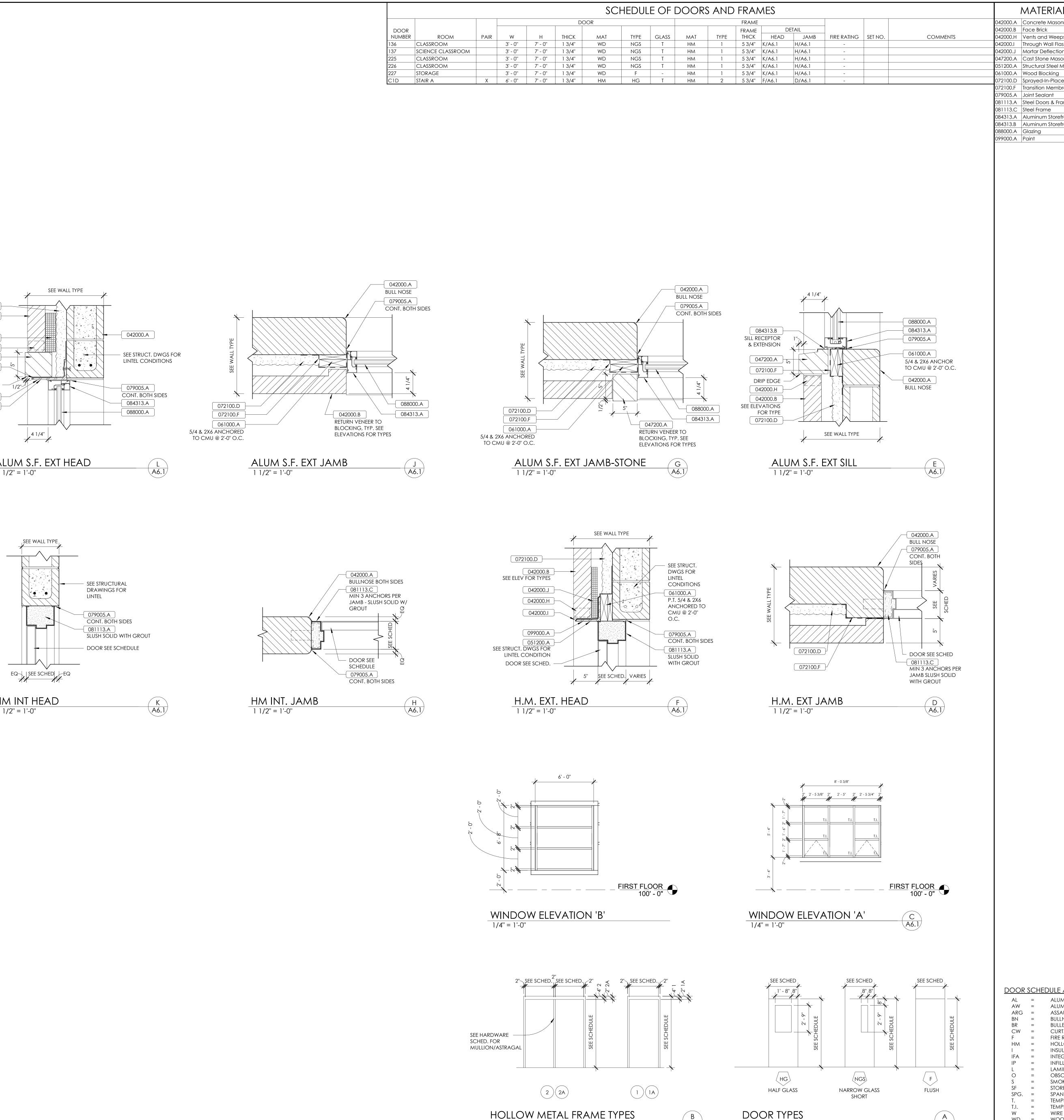




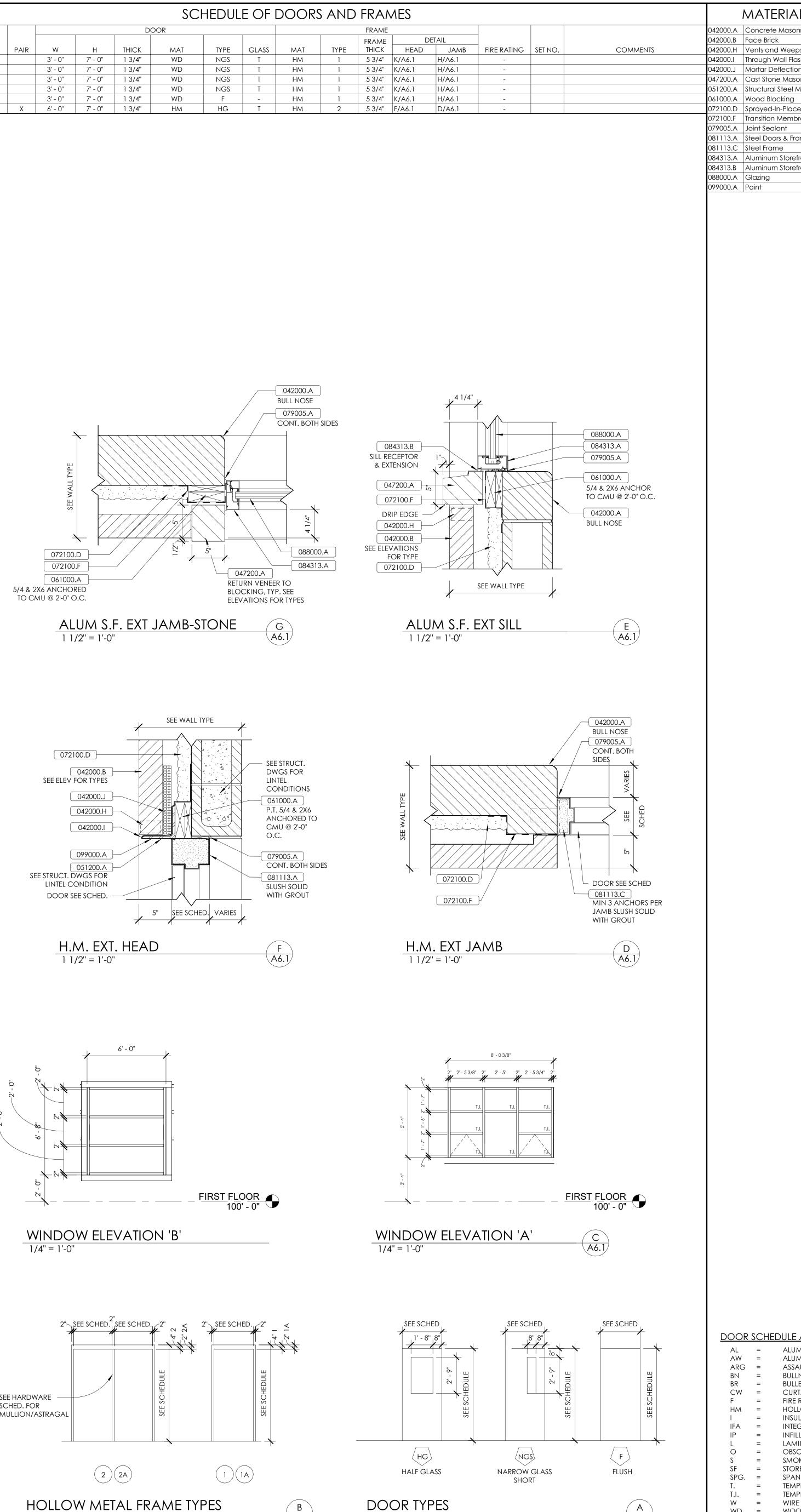
| REVISIONS | | | | |
|-----------|------|-------------|--|--|
| # | DATE | DESCRIPTION | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

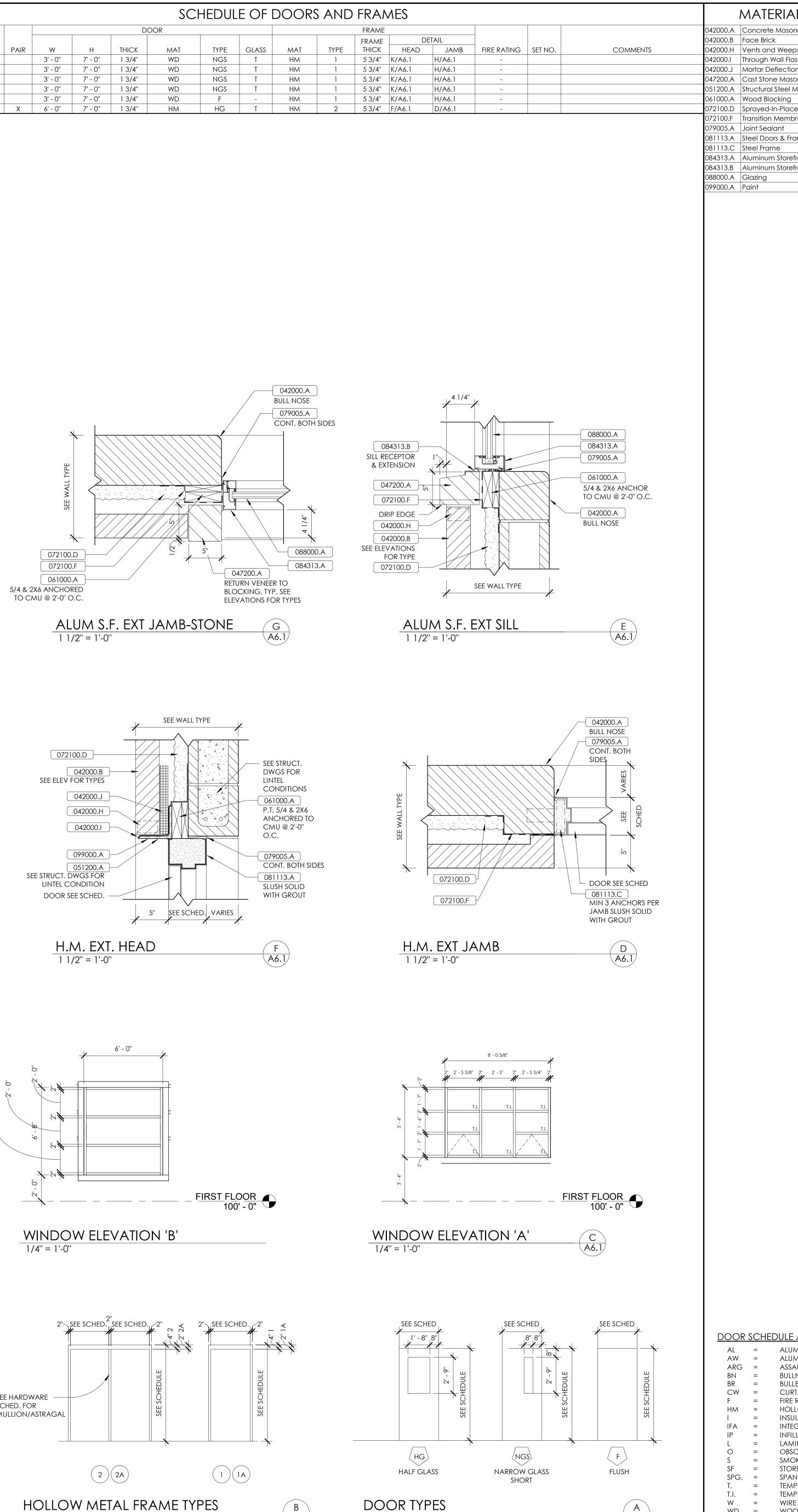






| | | | | | C |
|----------------|-------------------|-------|----------|----------|--------|
| door Number | ROOM | PAIR | W | Н | THICK |
| 136 | CLASSROOM | 17410 | 3' - 0'' | 7' - 0'' | 1 3/4" |
| 137 | SCIENCE CLASSROOM | | 3' - 0'' | 7' - 0'' | 1 3/4" |
| 225 | CLASSROOM | | 3' - 0'' | 7' - 0'' | 1 3/4" |
| 226 | CLASSROOM | | 3' - 0'' | 7' - 0'' | 1 3/4" |
| 227 | STORAGE | | 3' - 0'' | 7' - 0'' | 1 3/4" |
| C1D | STAIR A | Х | 6' - 0'' | 7' - 0'' | 1 3/4" |



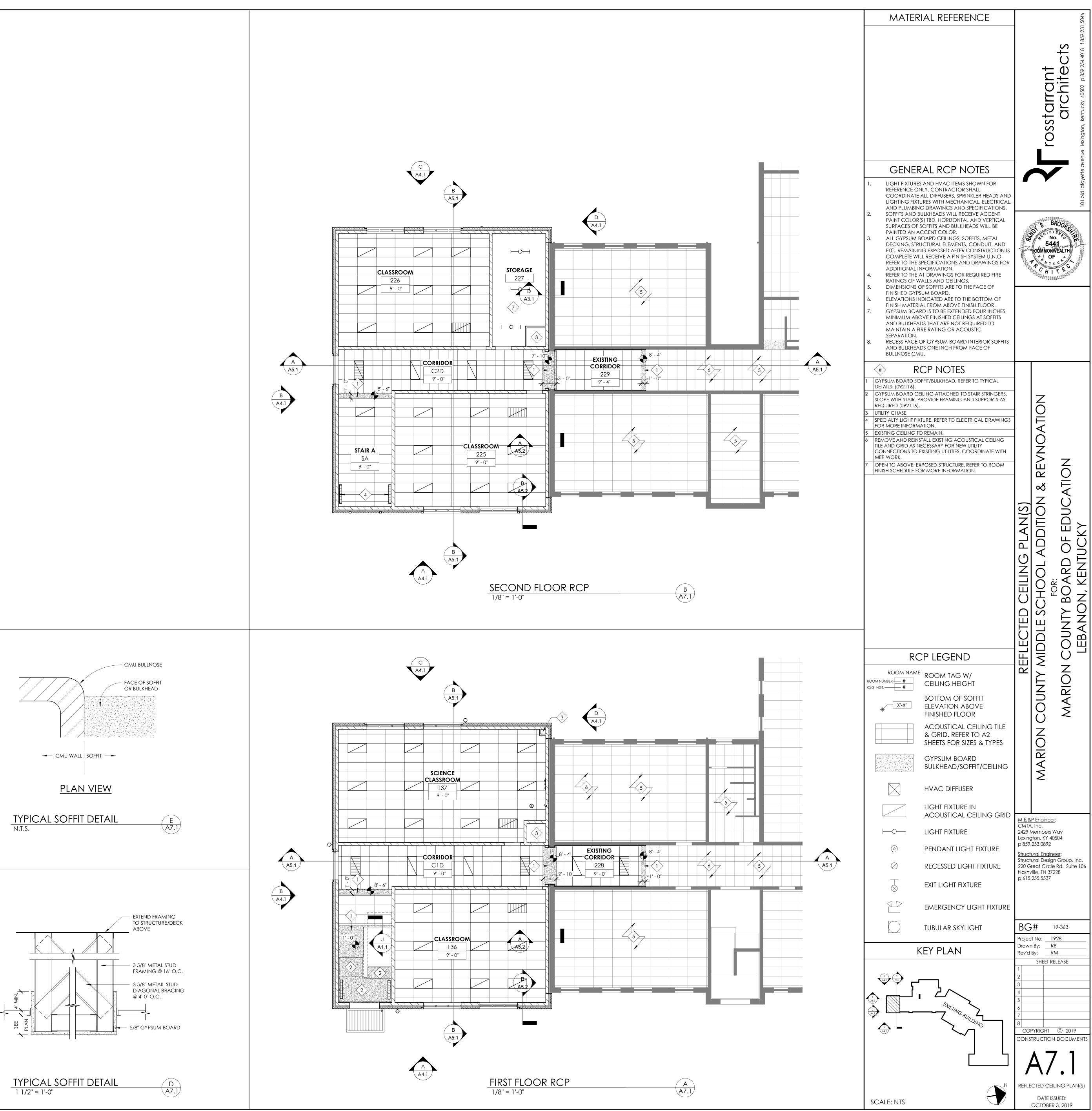


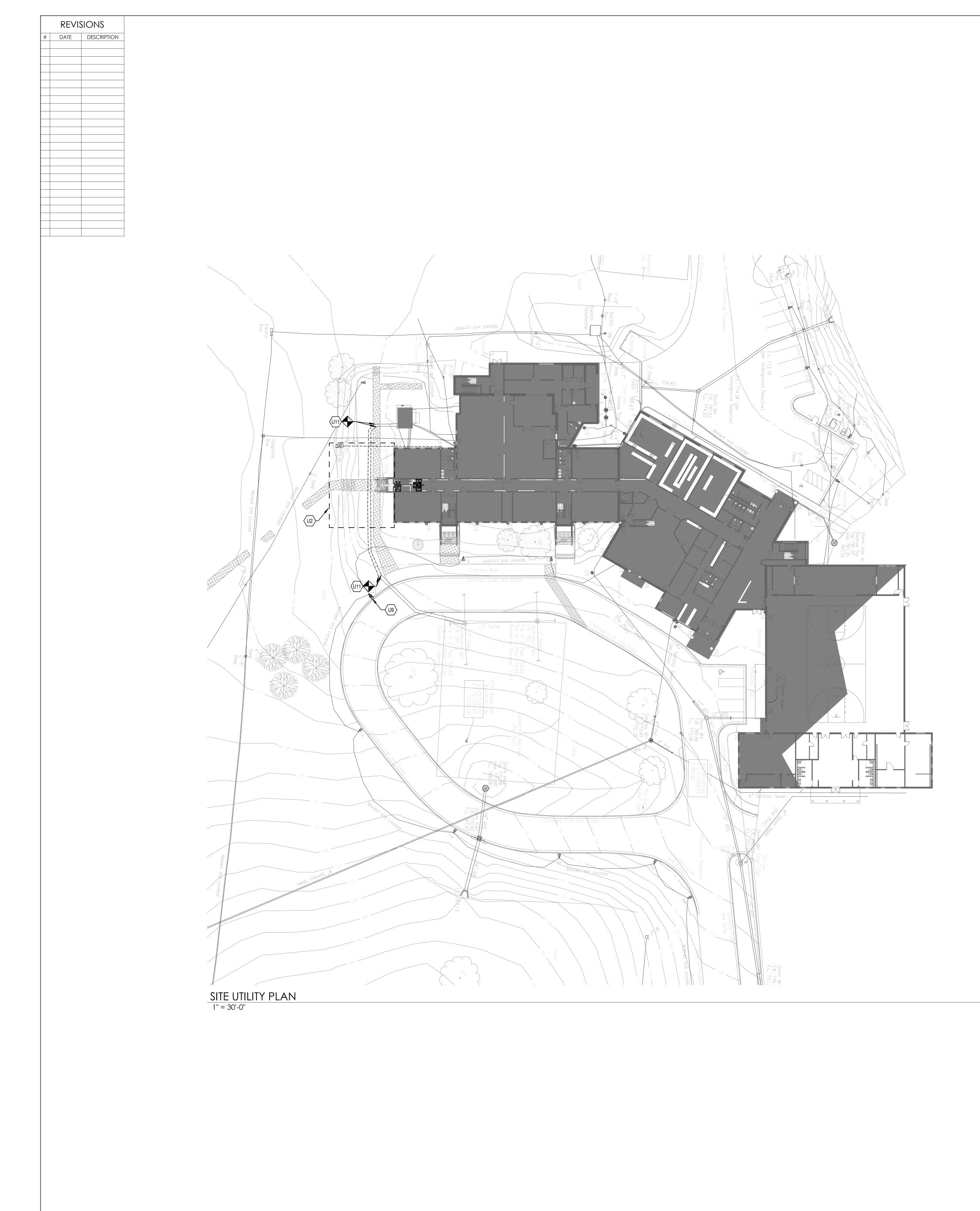
N.T.S.

| AL AR BN BR C F HN I F P L O S F P T. I. W I W I | | | 00.A 00.B 00.J 00.J 00.A 00.A 00.A 00.F 05.A 13.A 13.C 13.A 13.B 00.A |
|---|--------------------------|--|--|
| V=ALUMINUM WINDOWG=ASSAULT RESISTANT GLAZING=BULLNOSE=BULLET RESISTANT GLAZINGV=CURTAINWALL=FIRE RATED GLAZING1=HOLLOW METAL=INSULATEDA=INTEGRATED FRAME ASSEMBLY=INFILL PANEL=LAMINATED=OBSCURE GLAZING=SMOKE=STOREFRONTG.==TEMPERED=TEMPERED=WIRE GLASS | | | MATERIAL REFERENCEConcrete Masonry UnitFace BrickVents and WeepsThrough Wall FlashingMortar Deflection MaterialCast Stone Masonry UnitsStructural Steel MemberWood BlockingSprayed-In-Place Thermal InsulationTransition MembraneJoint SealantSteel FrameAluminum Storefront WindowAluminum Storefront FramingGlazingPaint |
| Struct Struct 220 G Nashv p 615 Projec Drawr Rev'd 1 2 3 4 5 6 7 8 CONS | CMTA 2429 I Lexing | Contraction of the Contraction o | |
| SHEET R PYRIGHT TRUCTION SAND FR/ DATE IS | MARION COUNTY MIDDLE SC | | L rosstarrant |
| n Group, e Rd. Suit 228 19-363 928 B M ELEASE C 201 1 DOCUM | Way | | architects |
| e 106 | LEBANON, KENTUCKY | RE | 101 old lafayette avenue Texington, kentucky 40502 p 859.254.4018 f 859.231.5046 |

OCTOBER 3, 2019

| REVISIONS | | | | |
|-----------|------|-------------|--|--|
| # | DATE | DESCRIPTION | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 1 | | | |





| | S SITE UTILITY GENERAL NOTES - MI |
|---|---|
| A | DO NOT SCALE FROM MECHANICAL AND ELECTRICAL REQUIRED DIMENSIONS. |
| В | CONTRACTOR SHALL CUT ALL PAVEMENT, CURBING, WORK. CONTRACTOR SHALL REFER TO CM SCOPING REPAIR OF CONCRETE/ASPHALT/GRADE. ANY SUCH V MENTIONED UNDER A SEPARATE CONTRACT IS TO B CONTRACTOR'S BID. |
| С | FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY REGULATIONS AND REQUIREMENTS APPLY UNLESS |
| D | WHEN INTERRUPTION OF AN EXISTING UTILITY OR SE OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHAL NEEDED TO RESTORE SAME PROVIDING PREMIUM TI INCREASE IN THE CONTRACT PRICE. |
| E | PLANNED INTERRUPTION OF ANY SERVICE SHALL BE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, BUILDING OPERATORS AT LEAST TWO WEEKS IN ADV INTERRUPTION. A SCHEDULE FOR THESE OUTAGES S AGREED UPON BETWEEN THE PARTIES MENTIONED INCONVENIENCE TO THE OWNER OR ANY AFFECTED COMPANY OF ANY ANTICIPATED SERVICES REQUIRE WEEKS IN ADVANCE IN WRITING AND INSURE THAT T |
| F | LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMATIC SUBSTANTIAL VARIATION FROM EXISTING CONDITION LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTR EXTREME CARE IN THE COURSE OF THEIR WORK SO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFET PARTICULAR ATTENTION TO THIS PRECAUTION RELA ELECTRICAL LINES. ALL WORK SHALL BE PERFORME FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIC REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLE APPLICABLE MUNICIPALITY OR UTILITY COMPANY ST MOST STRINGENT REQUIREMENT SHALL APPLY. IF AN CONSULT THE BUILDING ENGINEER AND THE MECHA REPRESENTATIVE. CONTRACTOR SHALL VISIT SITE A ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOD SUBMISSION OF A BID PROPOSAL INDICATES THAT T AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL AN WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES |
| G | CONTRACTOR SHALL REFER TO CM SCOPING DOCUM OF LANDSCAPING THAT IS DISTURBED BY WORK OCC SUCH PATCH AND REPAIR NOT EXPLICITLY COVERED CONTRACT SHALL BE INCLUDED IN THE CONTRACTO |
| Η | THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE ONLY. |
| I | THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY I TO LOCATE UNDERGROUND UTILITIES. THE CONTRA NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRI OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTR NOTIFY THE OTHER UTILITY OWNERS. |
| J | THE CONTRACTOR WILL PROVIDE ALL NECESSARY P SAFEGUARD OTHER EXISTING UTILITIES FROM DAMA OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQU OVER AND AROUND THE OTHER UTILITIES. THE UTILI FURNISH SUCH EQUIPMENT. |
| K | CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY CO- COSTS, METER FEES, EXTENSION AND DEVELOPMEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. |
| L | CONTRACTOR SHALL COORDINATE LOCATION OF ALI LINES, GAS LINES, SANITARY LINES, SEWER LINES, V PULL BOXES, CONDUITS, POLE BASES ETC. SPECIFIC PLACEMENT OF CHILLED WATER PIPING IN PARKING LOCATIONS AND NOTIFY A/E IF CONFLICTS ARISE. |
| М | ALL PIPING TO BE ABANDONED SHALL BE CAPPED W BE LEFT OPEN-ENDED. |
| N | REFER TO SITE DEMOLITION PLAN FOR TREES TO BE REMAIN, CONTRACTOR SHALL TAKE CARE TO INSTAL |

TAGGED NOTES

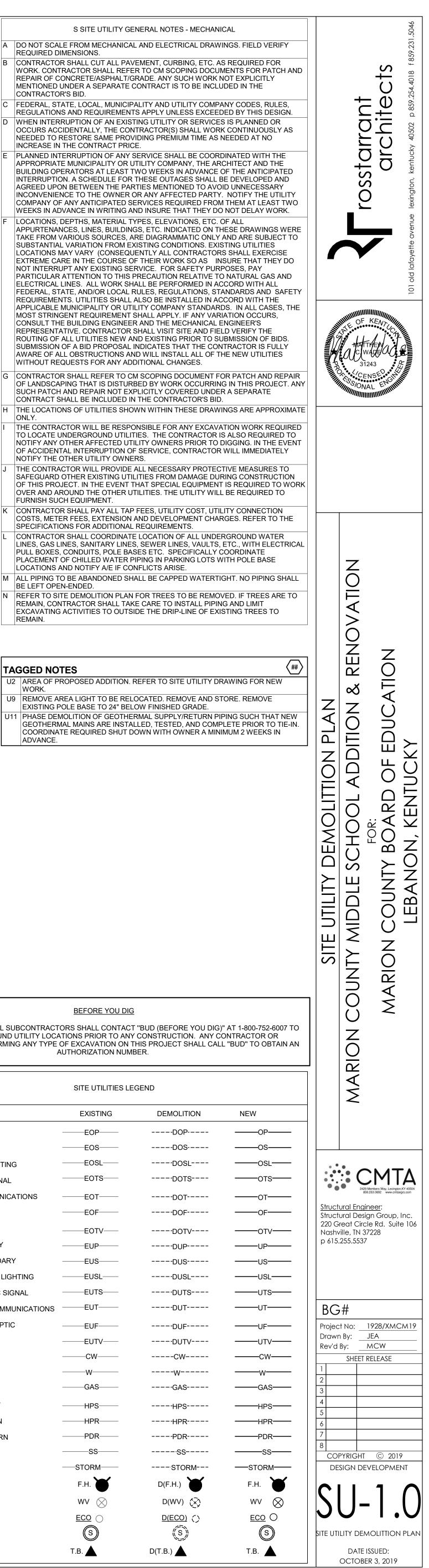
REMAIN.

- U2 AREA OF PROPOSED ADDITION. REFER TO SITE UTILITY DRAWING FOR NEW WORK. U9 REMOVE AREA LIGHT TO BE RELOCATED. REMOVE AND STORE. REMOVE EXISTING POLE BASE TO 24" BELOW FINISHED GRADE.

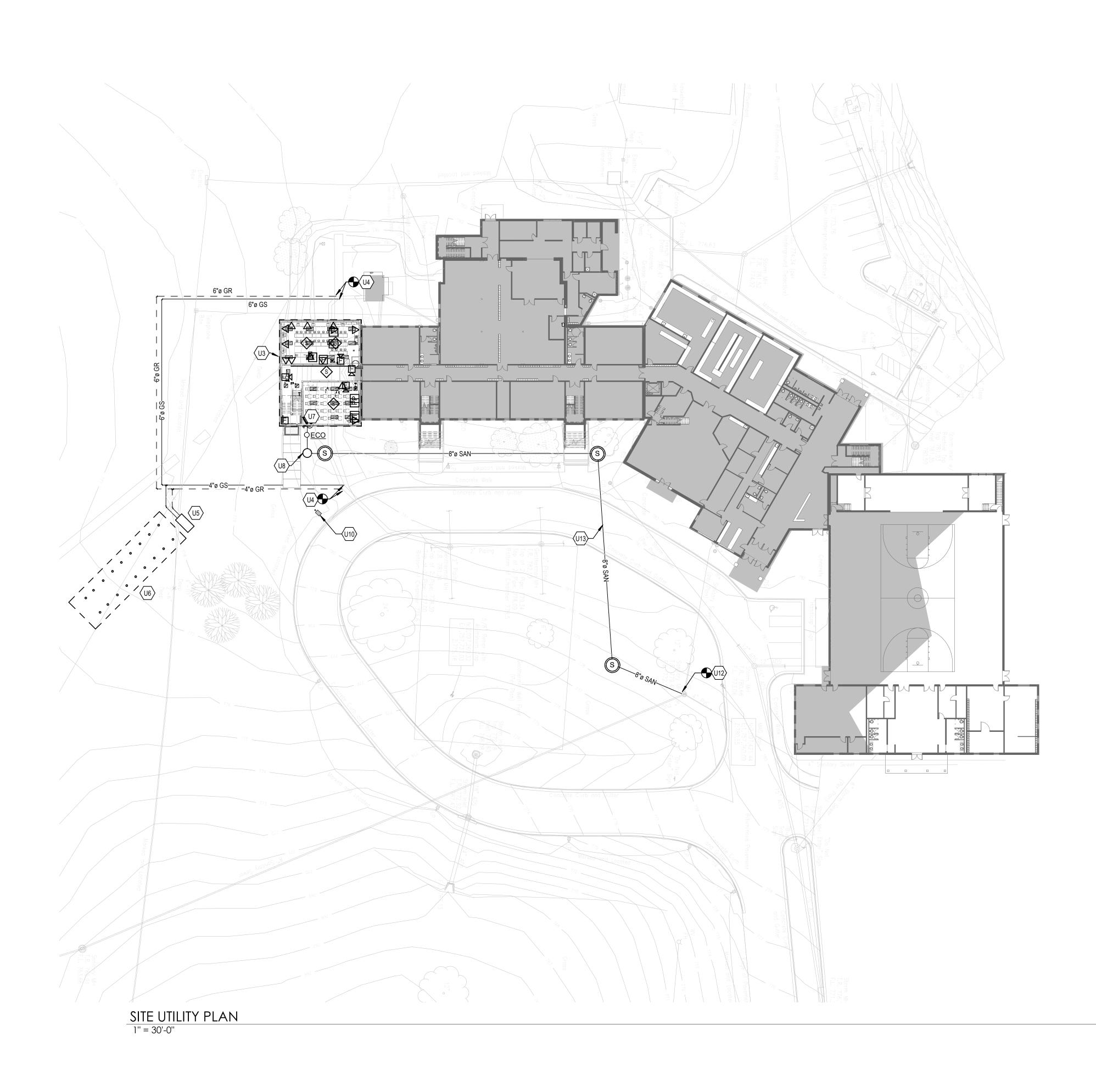
BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

| | SITE UTILITIES L | EGEND |
|--------------------------------|------------------|---------------|
| | EXISTING | DEMOLITION |
| OVERHEAD PRIMARY | EOP | DOP |
| OVERHEAD SECONDARY | EOS | DOS |
| OVERHEAD STREET LIGHTING | ——EOSL—— | DOSL |
| OVERHEAD TRAFFIC SIGNAL | EOTS | DOTS |
| OVERHEAD TELECOMMUNICATIONS | ——EOT—— | DOT |
| OVERHEAD FIBER OPTIC | ——EOF—— | DOF |
| OVERHEAD CATV | ——EOTV—— | DOTV |
| UNDERGROUND PRIMARY | EUP | DUP |
| UNDERGROUND SECONDARY | ——EUS—— | DUS |
| UNDERGROUND STREET LIGHTING | EUSL | DUSL |
| UNDERGROUND TRAFFIC SIGNAL | EUTS | DUTS |
| UNDERGROUND TELECOMMUNICATIONS | EUT | DUT |
| UNDERGROUND FIBER OPTIC | EUF | DUF |
| UNDERGROUND CATV | EUTV | DUTV |
| CHILLED WATER | CW | CW |
| DOMESTIC WATER | W | W |
| GAS | GAS | GAS |
| HIGH PRESSURE SUPPLY | HPS | HPS |
| HIGH PRESSURE RETURN | ———HPR——— | HPR |
| PUMP DISCHARGE RETURN | PDR | PDR |
| SANITARY SEWER | SS | SS |
| STORM | STORM | STORM |
| FIRE HYDRANT | F.H. 👅 | D(F.H.) |
| WATER VALVE | wv 🚫 | D(WV) |
| EXTERIOR CLEANOUT | ECO 🔾 | <u>D(ECO)</u> |
| SANITARY MANHOLE | S | S |
| THRUST BLOCK | Т.В. | D(T.B.) |
| | | |



| REVISIONS | | | |
|-----------|------|-------------|--|
| # | DATE | DESCRIPTION | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| | S SITE UTILITY GENERAL NOTES - N |
|---|--|
| A | DO NOT SCALE FROM MECHANICAL AND ELECTRICA REQUIRED DIMENSIONS. |
| В | CONTRACTOR SHALL CUT ALL PAVEMENT, CURBING WORK. CONTRACTOR SHALL REFER TO CM SCOPIN REPAIR OF CONCRETE/ASPHALT/GRADE. ANY SUCH MENTIONED UNDER A SEPARATE CONTRACT IS TO CONTRACTOR'S BID. |
| С | FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILIT REGULATIONS AND REQUIREMENTS APPLY UNLESS |
| D | WHEN INTERRUPTION OF AN EXISTING UTILITY OR S OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHA NEEDED TO RESTORE SAME PROVIDING PREMIUM INCREASE IN THE CONTRACT PRICE. |
| E | PLANNED INTERRUPTION OF ANY SERVICE SHALL B APPROPRIATE MUNICIPALITY OR UTILITY COMPANY BUILDING OPERATORS AT LEAST TWO WEEKS IN AD INTERRUPTION. A SCHEDULE FOR THESE OUTAGES AGREED UPON BETWEEN THE PARTIES MENTIONED INCONVENIENCE TO THE OWNER OR ANY AFFECTE COMPANY OF ANY ANTICIPATED SERVICES REQUIR WEEKS IN ADVANCE IN WRITING AND INSURE THAT |
| F | LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATION APPURTENANCES, LINES, BUILDINGS, ETC. INDICAT TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMAT SUBSTANTIAL VARIATION FROM EXISTING CONDITIO LOCATIONS MAY VARY (CONSEQUENTLY ALL CONT EXTREME CARE IN THE COURSE OF THEIR WORK SE NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFE PARTICULAR ATTENTION TO THIS PRECAUTION REL ELECTRICAL LINES. ALL WORK SHALL BE PERFORM FEDERAL, STATE, AND/OR LOCAL RULES, REGULAT REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALL APPLICABLE MUNICIPALITY OR UTILITY COMPANY S MOST STRINGENT REQUIREMENT SHALL APPLY. IF A CONSULT THE BUILDING ENGINEER AND THE MECH REPRESENTATIVE. CONTRACTOR SHALL VISIT SITE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIO SUBMISSION OF A BID PROPOSAL INDICATES THAT AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL A WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGE |
| G | CONTRACTOR SHALL REFER TO CM SCOPING DOCU OF LANDSCAPING THAT IS DISTURBED BY WORK OF SUCH PATCH AND REPAIR NOT EXPLICITLY COVERE CONTRACT SHALL BE INCLUDED IN THE CONTRACT |
| Η | THE LOCATIONS OF UTILITIES SHOWN WITHIN THES ONLY. |
| | THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TO LOCATE UNDERGROUND UTILITIES. THE CONTR NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PF OF ACCIDENTAL INTERRUPTION OF SERVICE, CONT NOTIFY THE OTHER UTILITY OWNERS. |
| J | THE CONTRACTOR WILL PROVIDE ALL NECESSARY SAFEGUARD OTHER EXISTING UTILITIES FROM DAM OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQ OVER AND AROUND THE OTHER UTILITIES. THE UTIL FURNISH SUCH EQUIPMENT. |
| K | CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY CONSTS, METER FEES, EXTENSION AND DEVELOPME SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS |
| L | CONTRACTOR SHALL COORDINATE LOCATION OF A LINES, GAS LINES, SANITARY LINES, SEWER LINES, PULL BOXES, CONDUITS, POLE BASES ETC. SPECIF PLACEMENT OF CHILLED WATER PIPING IN PARKING LOCATIONS AND NOTIFY A/E IF CONFLICTS ARISE. |
| М | ALL PIPING TO BE ABANDONED SHALL BE CAPPED V BE LEFT OPEN-ENDED. |
| N | REFER TO SITE DEMOLITION PLAN FOR TREES TO B |

REMAIN, CONTRACTOR SHALL TAKE CARE TO INSTALL PIPING AND LIMIT EXCAVATING ACTIVITIES TO OUTSIDE THE DRIP-LINE OF EXISTING TREES TO REMAIN.

|--|

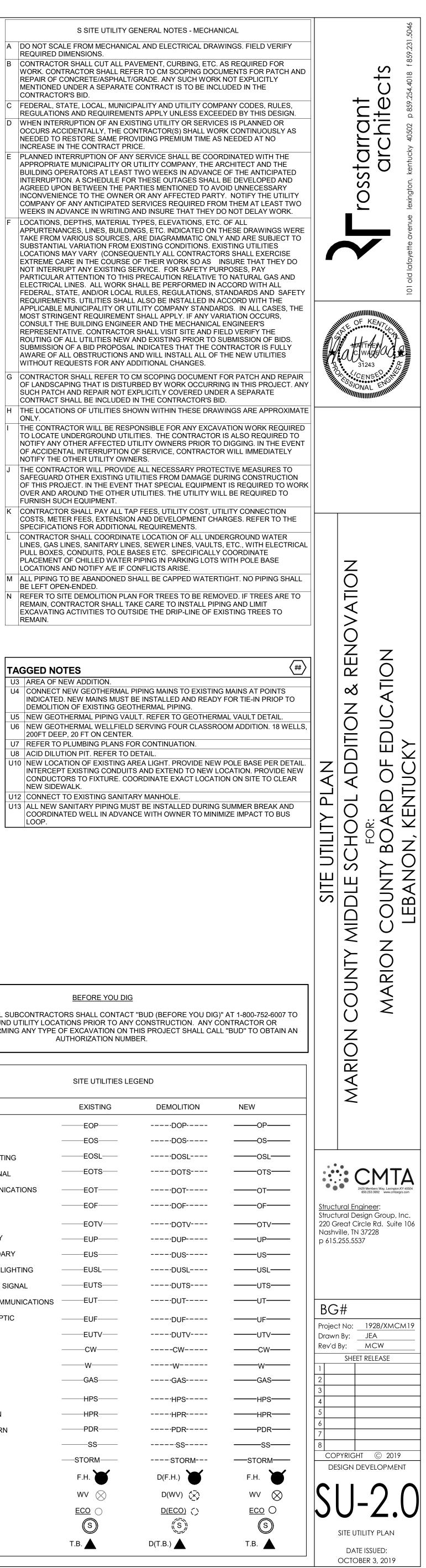
- U3 AREA OF NEW ADDITION. U4 CONNECT NEW GEOTHERMAL PIPING MAINS TO EXISTING MAINS AT POINTS INDICATED. NEW MAINS MUST BE INSTALLED AND READY FOR TIE-IN PRIOP TO
- DEMOLITION OF EXISTING GEOTHERMAL PIPING. U5 NEW GEOTHERMAL PIPING VAULT. REFER TO GEOTHERMAL VAULT DETAIL. U6 NEW GEOTHERMAL WELLFIELD SERVING FOUR CLASSROOM ADDITION. 18 WELLS, 200FT DEEP, 20 FT ON CENTER.
- U7 REFER TO PLUMBING PLANS FOR CONTINUATION. U8 ACID DILUTION PIT. REFER TO DETAIL.
- J10 NEW LOCATION OF EXISTING AREA LIGHT. PROVIDE NEW POLE BASE PER DETAIL. INTERCEPT EXISTING CONDUITS AND EXTEND TO NEW LOCATION. PROVIDE NEW CONDUCTORS TO FIXTURE. COORDINATE EXACT LOCATION ON SITE TO CLEAR NEW SIDEWALK. U12 CONNECT TO EXISTING SANITARY MANHOLE.
- U13 ALL NEW SANITARY PIPING MUST BE INSTALLED DURING SUMMER BREAK AND COORDINATED WELL IN ADVANCE WITH OWNER TO MINIMIZE IMPACT TO BUS LOOP.

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

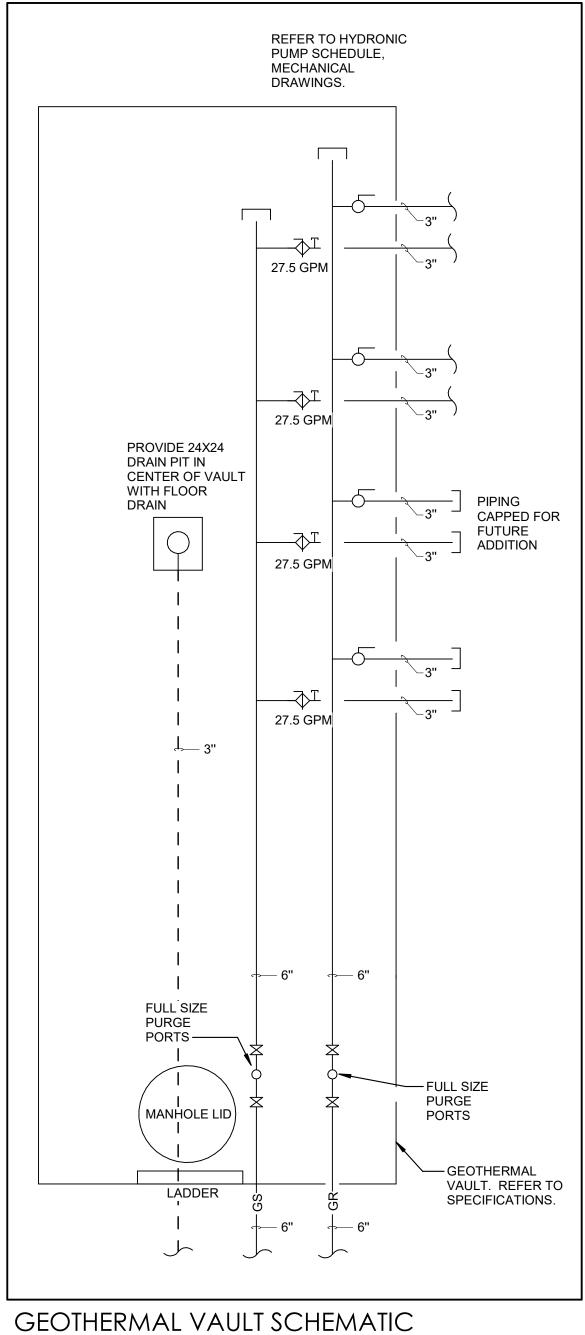
SITE UTILITIES LEGEND

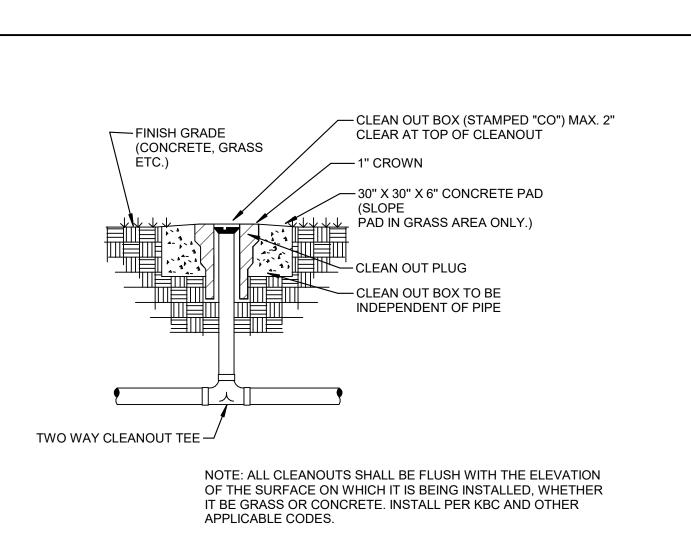
| | SHE OHEMES LEGEND | |
|--------------------------------|-------------------|------------|
| | EXISTING | DEMOLITION |
| OVERHEAD PRIMARY | EOP | DOP |
| OVERHEAD SECONDARY | EOS | DOS |
| OVERHEAD STREET LIGHTING | EOSL | DOSL |
| OVERHEAD TRAFFIC SIGNAL | EOTS | DOTS |
| OVERHEAD TELECOMMUNICATIONS | EOT | DOT |
| OVERHEAD FIBER OPTIC | EOF | DOF |
| OVERHEAD CATV | EOTV | DOTV |
| UNDERGROUND PRIMARY | EUP | DUP |
| UNDERGROUND SECONDARY | EUS | DUS |
| UNDERGROUND STREET LIGHTING | EUSL | DUSL |
| UNDERGROUND TRAFFIC SIGNAL | EUTS | DUTS |
| UNDERGROUND TELECOMMUNICATIONS | ——EUT—— | DUT |
| UNDERGROUND FIBER OPTIC | EUF | DUF |
| UNDERGROUND CATV | EUTV | DUTV |
| CHILLED WATER | CW | CW |
| DOMESTIC WATER | W | W |
| GAS | GAS | GAS |
| HIGH PRESSURE SUPPLY | HPS | HPS |
| HIGH PRESSURE RETURN | HPR | HPR |
| PUMP DISCHARGE RETURN | PDR | PDR |
| SANITARY SEWER | SS | ·SS |
| STORM | STORM | STORM |
| FIRE HYDRANT | F.H. 🍑 | D(F.H.) |
| WATER VALVE | wv 🚫 | D(WV) |
| EXTERIOR CLEANOUT | ECO O | D(ECO) |
| SANITARY MANHOLE | S | |
| THRUST BLOCK | Т.В. | D(T.B.) |



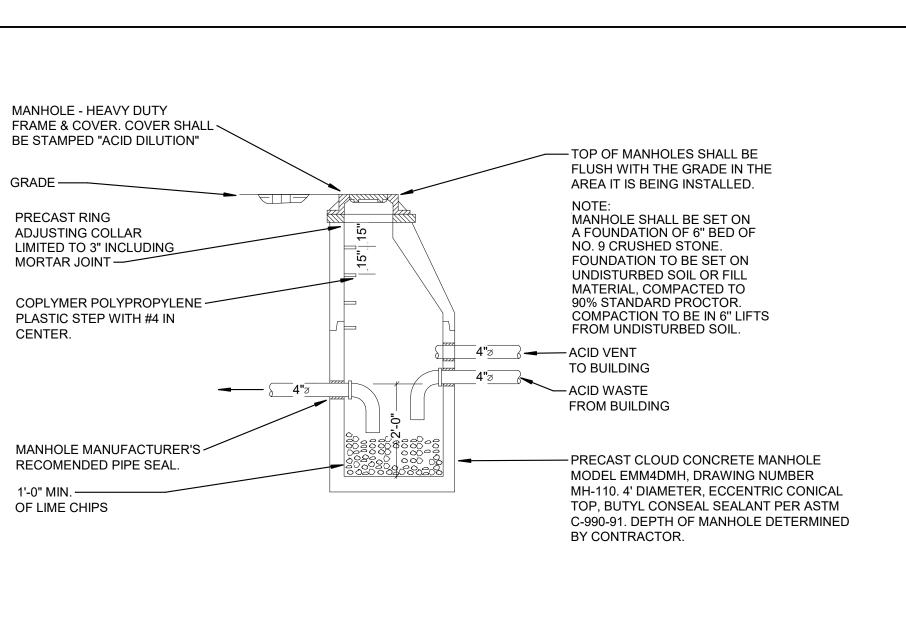
| REVISIONS | | | |
|-----------|------|-------------|--|
| # | DATE | DESCRIPTION | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

NOT TO SCALE

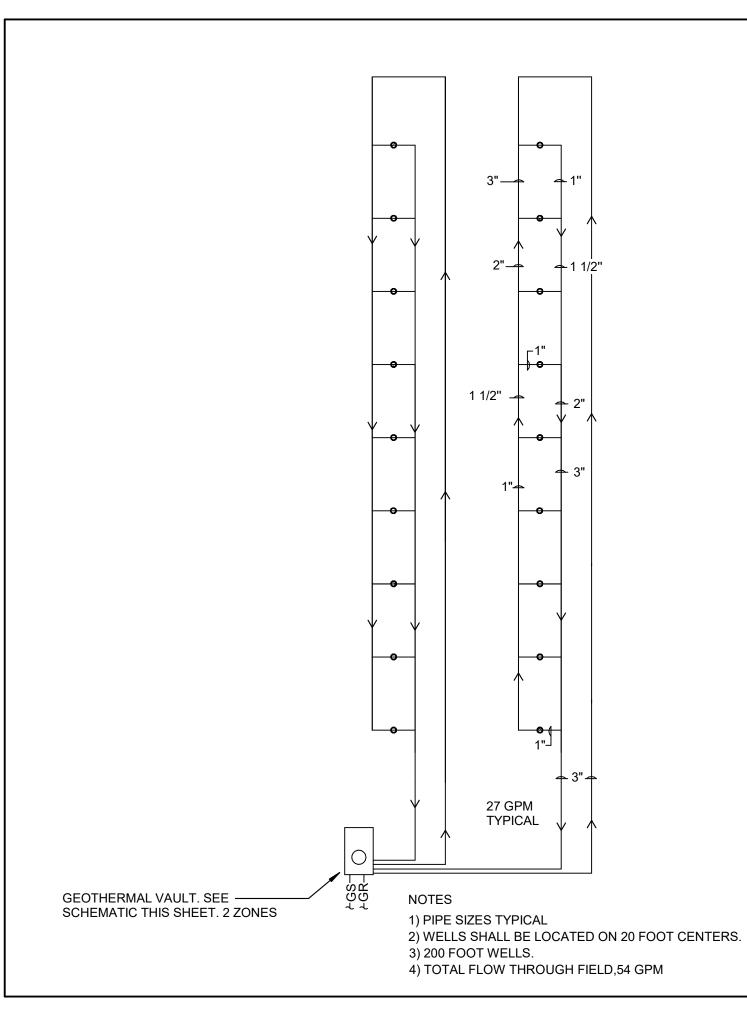






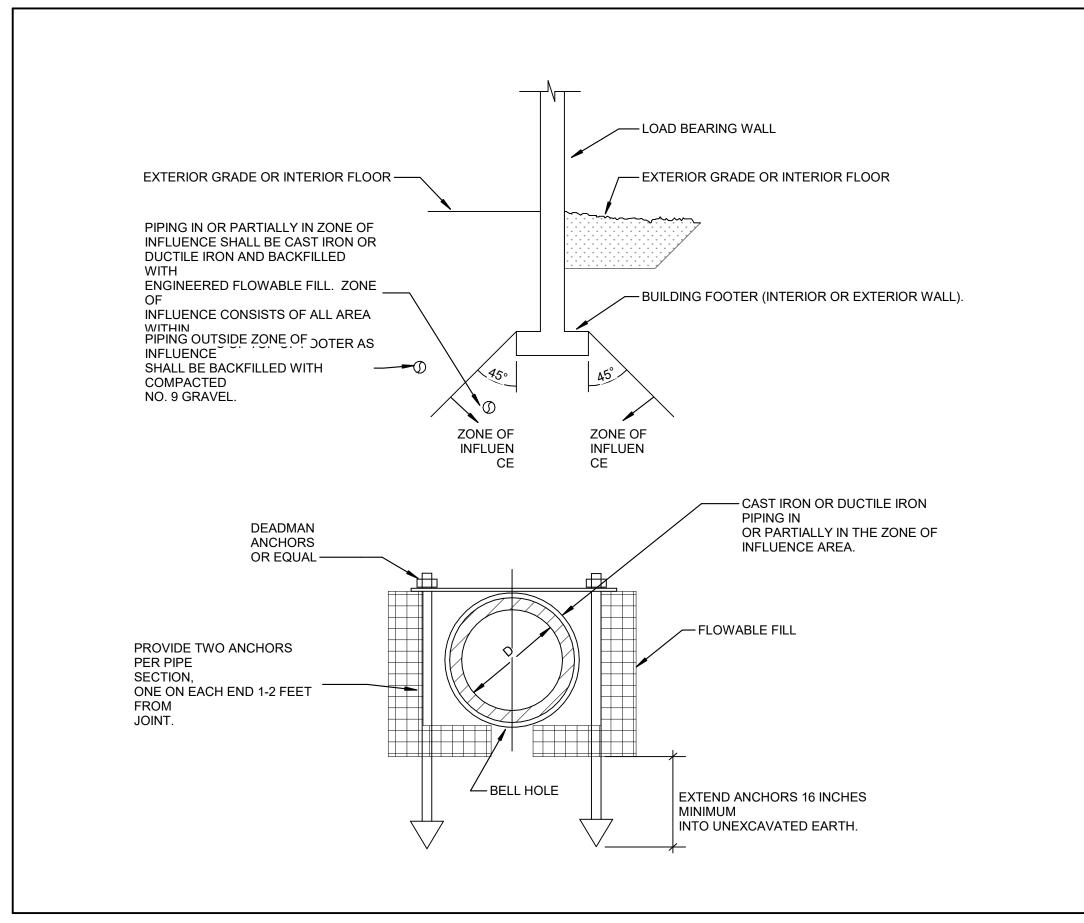


DILUTION PIT DETAIL

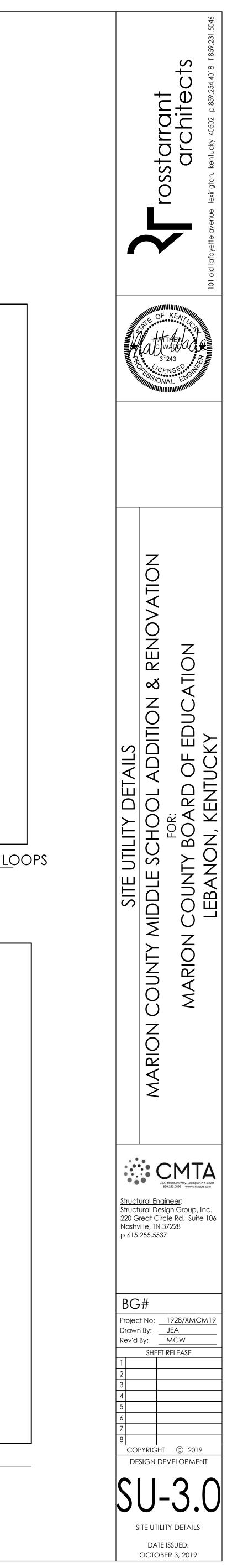


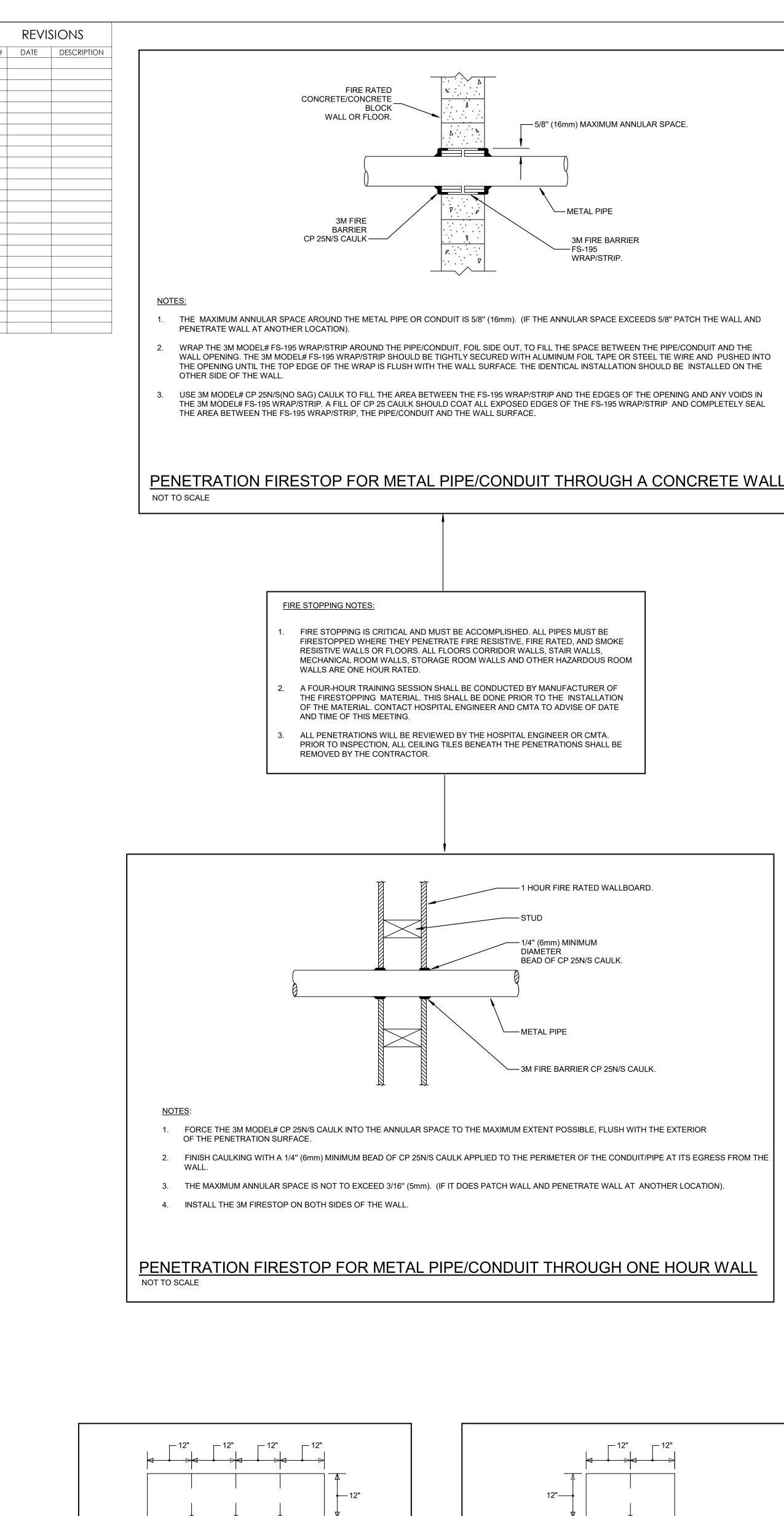
NOT TO SCALE

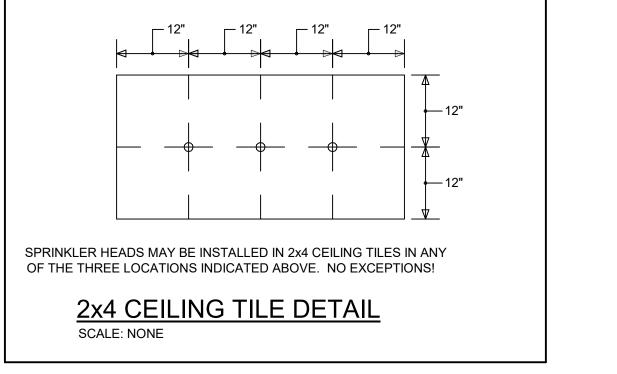
GEOTHERMAL WELLFIELD PIPING SCHEMATIC - 300 FOOT DEEP LOOPS NOT TO SCALE

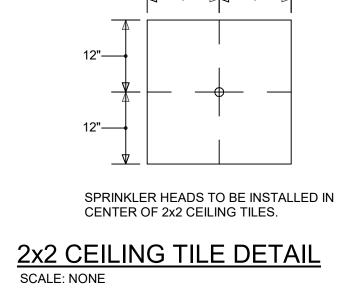


UNDERGROUND PIPING AND FOOTER COORDINATION SCHEMATIC NOT TO SCALE









GENERAL NOTES - FIRE PROTECTION

- A. ALL AREAS SHALL BE PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION BUILDING CODES AND THE PROJECT SPECIFICATIONS. LIKE TWO 2'X2' TILES. D. ALL SPRINKLER HEADS SHALL BE "SEMI-RECESSED", QUICK RESPONSE SHALL BE FED FROM A RETURN BEND ARRANGEMENT. AREAS WITHOUT CEILINGS. PRIOR TO SUBMITTING SHOP DRAWINGS. G. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, REQUIRED TO COMPLETELY DRAIN THE SYSTEM. H. REFER TO THE SPECIFICATIONS FOR SPRINKLER HEAD TYPES. I. PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS OR A FLOOR DRAIN. SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE THE M/E ENGINEER. ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. PATCHING WORK SHALL MATCH ADJACENT SURFACES. N. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. O. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT KENTUCKY, ETC.) R. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ENGINEERS TO REVIEW THE ROUTING. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING
- PENETRATIONS. LIFE SAFETY MEASURES. WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC. DRAWINGS. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY. X. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER OTHER EQUIPMENT. APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

PHASING NOTES

ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

HAZARDOUS MATERIALS NOTES

- ASCERTAINED TO BE NON-HAZARDOUS.
- REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL. ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
- ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES. INFORMATION.

SYSTEM INSTALLED IN STRICT ACCORDANCE WITH NFPA-13, THE KENTUCKY B. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR LAYING OUT THE SPRINKLER HEADS. THE REFLECTED CEILING PLANS SHOWN ARE TO COORDINATE CEILING TYPES AND LOCATIONS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING DEVICE LOCATIONS. REFER TO THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS. C. INSTALL HEADS IN CENTER OF 2'X2' TILES. INSTALL HEADS ON 1/4 POINTS OF THE 4' DIMENSION AND CENTER OF THE 2' DIMENSION IN 2'X4' TILES. DO NOT MOUNT HEADS IN CENTER OF 2'X4' TILE IF IT IS SCORED TO LOOK

ABBREVIATIONS

SPRINKLER HEADS (UNLESS OTHERWISE NOTED ON THE PLANS.) HEADS E. UTILIZE UPRIGHT AND/OR WALL-MOUNTED TYPE SPRINKLER HEADS IN

F. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HIS OWN FLOW TEST

STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICAITONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT. HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE

SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS. K. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO

L. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH

M. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL

P. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S

SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER. Q. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF

ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE S. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD.

T. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM

U. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST BE OFFSET TO AVOID CONFLICTS V. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE W. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN.

TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND Y. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION. Z. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT AA. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE

B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL, FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING

D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE. BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY

E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER

| ABBREVIA | FIONS |
|----------|---|
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| ANSI | AMERICAN NATIONAL STANDARD INSTITUTE |
| CLG | CEILING |
| CLR | CLEAR |
| DN | DOWN |
| ENGR | ENGINEER |
| EQ | EQUAL |
| ETR | EXISTING TO REMAIN |
| EXT | EXTERIOR |
| FVC | FIRE VALVE CABINET |
| FL | FLOOR |
| FLA | FULL LOAD AMPS |
| FOB | FLAT ON BOTTOM |
| FOT | FLAT ON TOP |
| FPC | FIRE PROTECTION CONTRACTOR |
| FT | FEET OR FOOT |
| FUT | FUTURE |
| GA | GAGE/GAUGE |
| GAL | GALLON (-S) |
| GC | GENERAL CONTRACTOR |
| HORIZ | HORIZONTAL |
| ID | I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION) |
| IN | INCH (-ES) |
| INT | INTER (-IOR, -ERVAL) |
| IPS | IRON PIPE SIZE |
| LBS | POUNDS |
| LF | LINEAR FEET/FOOT |
| MAX | MAXIMUM |
| MFG | MANUFACTURER |
| MIN | MIN (-IMUM, -UTE) |
| MISC | MISCELLANEOUS |
| MTG | MOUNTING |
| N/A | NOT APPLICABLE |
| NC | NOISE CRITERIA OR NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN OR NUMBER |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DI (-AMETER, -MENSION) |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| PC | PLUMBING CONTRACTOR |
| PLBG | PLUMBING |
| PRV | PRESSURE REDUCING VALVE (STEAM, WATER, GAS) |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | PPSI GAUGE |
| SQ FT | SQUARE FEET OR FOOT |
| | |

TO BE DETERMINED

TBD

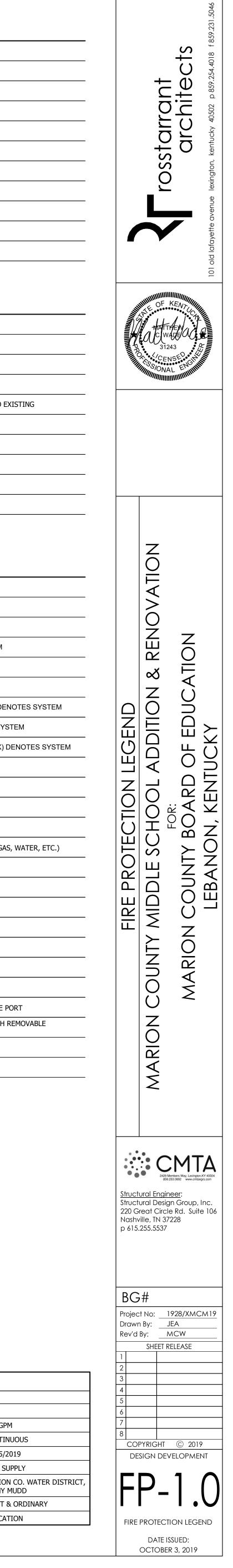
| TE | TOP ELEVATION |
|-----|------------------------|
| ТҮР | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| WT | WEIGHT |
| W/ | WITH |
| W/O | WITHOUT |
| % | PERCENT |
| ¢ | CENTERLINE |
| | |
| | |
| | |

GENERAL SYMBOLS $\langle \# \rangle$ TAGGED NOTE DESIGNATOR $\underline{\mathbb{N}}$ REVISION TRIANGLE ROOM NAME RM # ROOM TAG тад <u>XXX-#</u> EQUIPMENT TAG INSTANCE XXXX POINT OF CONNECTION / CONNECT TO EXISTING \bullet POINT OF DEMOLITION \Rightarrow

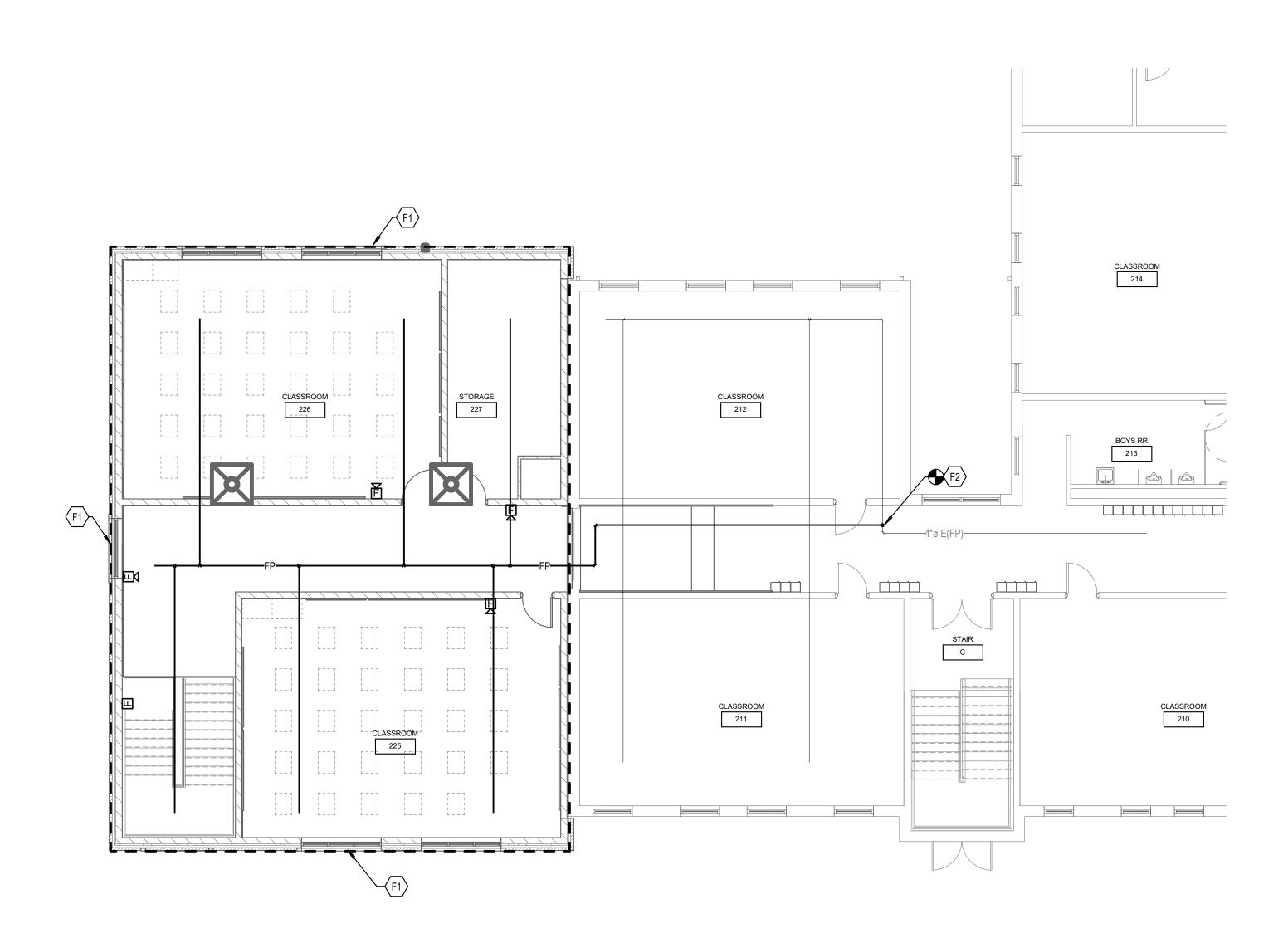
| 0 | PIPE ELBOW TURNING UP |
|---------------------|---|
| | |
| | PIPE ELBOW TURNING DOWN |
| | PIPE TEE; CONNECTION ON TOP |
| | PIPE TEE; CONNECTION ON BOTTOM |
| | PIPE CAP |
| FP | FIRE PROTECTION PIPING |
| D(XXX) | PIPING TO BE DEMOLISHED - (XXX) DEI |
| —E(XXX)— | EXISTING PIPING - (XXX) DENOTES SYS |
| —A(XXX)— | ABANDONED IN PLACE PIPING - (XXX) |
| — , — | STRAINER |
| | MANUAL ISOLATION VALVE |
| —× | GLOBE VALVE |
| | OS&Y (GATE) VALVE |
| —×— | PRESSURE REDUCING VALVE (STEAM, GAS |
| | CHECK VALVE |
| | DOUBLE CHECK VALVE ASSEMBLY |
| | FLEXIBLE PIPE CONNECTION |
| <u> </u> | PIPING UNION |
| | FLOW SWITCH |
| | PRESSURE SWTICH |
| Ts | TAMPER SWITCH |
| T | PETE'S PLUG; TEMPERATURE/PRESSURE P |
| • | SEMI-RECESSED SPRINKLER HEAD WITH ESCUTCHEON PLATE |
| • | UPRIGHT TYPE SPRINKLER HEAD |
| | SIDEWALL TYPE SPRINKLER HEAD |

| APPLICABLE BUILDING CODES | | | |
|--------------------------------------|---------------|------|--|
| APPLICABLE BUILDING CODES | DOCUMENT | YEAR | |
| FIRE SPRINKLER CODE | NFPA 13 | 2018 | |
| INTERNATIONAL BUILDING CODE (IBC) | STATE EDITION | 2018 | |
| INTERNATION FIRE CODE (IFC) | STATE EDITION | 2018 | |
| INTERNATION MECHANICAL CODE (IMC) | STATE EDITION | 2018 | |
| KENTUCKY PLUMBING CODE (KSPC) | STATE EDITION | 2018 | |
| NATIONAL FIRE ALARM & SIGNALING CODE | NFPA 72 | 2010 | |

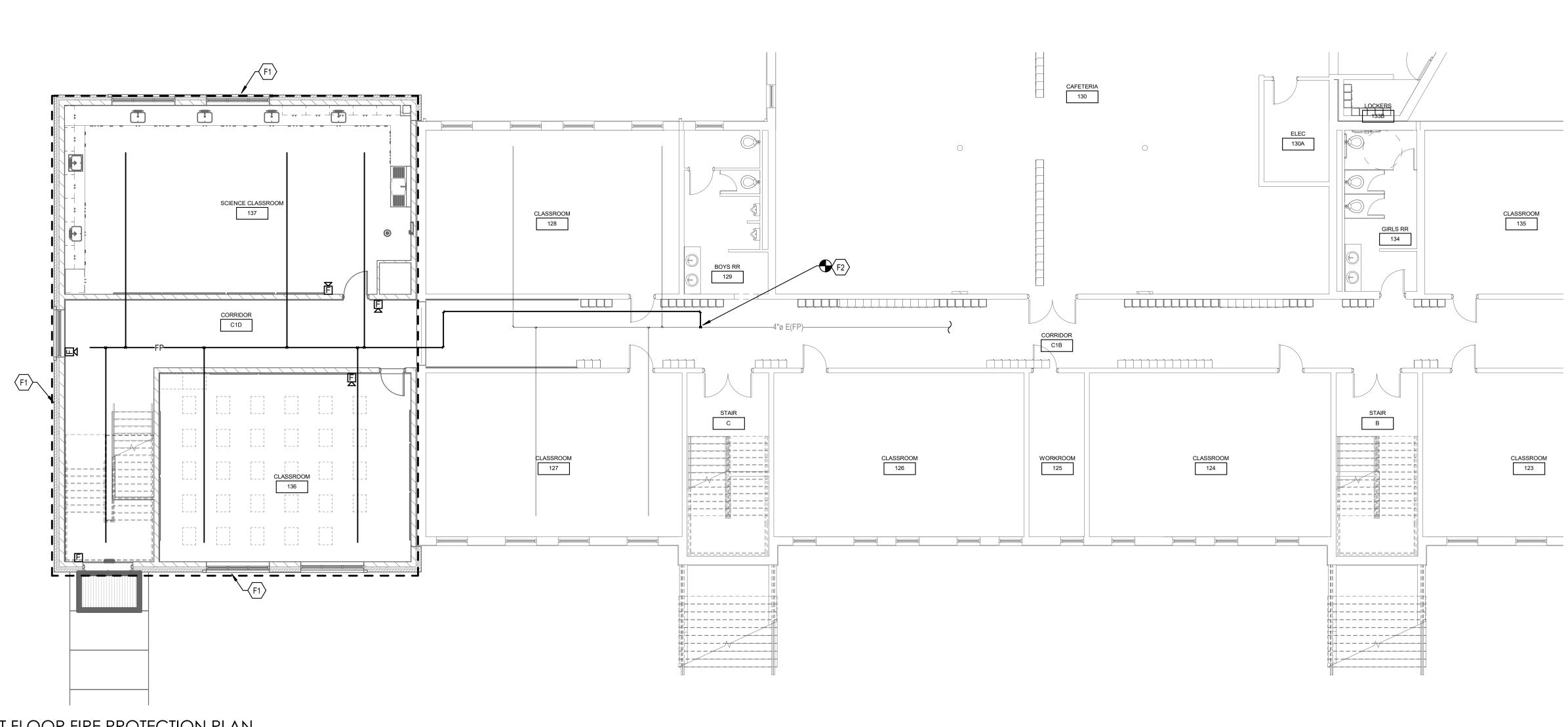
| FLOW DATA | |
|------------------------|----------------|
| STATIC PSI: | 45 |
| RESIDUAL PSI: | 30 |
| FLOW: | 920 GP |
| DURATION: | CONTI |
| DATE & TIME: | 08/05/2 |
| SOURCE OF WATER: | CITY S |
| SOURCE OF DATA: | Mario Jimmy |
| HAZARD: | LIGHT |
| OCCUPANCY OF BUILDING: | EDUCA |
| | |



| REVISIONS | | |
|-----------|------|-------------|
| # | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



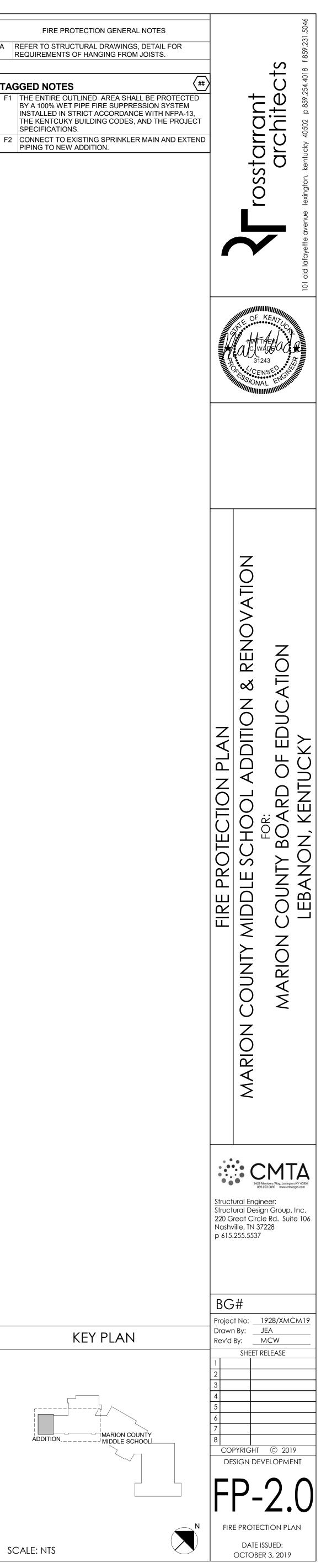
SECOND FLOOR FIRE PROTECTION PLAN



FIRST FLOOR FIRE PROTECTION PLAN 1/8" = 1'-0"

TAGGED NOTES SPECIFICATIONS. PIPING TO NEW ADDITION.

> ____F ADDITION_



| | REVIS | sions | |
|---|-------|-------------|--|
| # | DATE | DESCRIPTION | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | PLUMBING FIXTURE SCHEDULE | | | | | |
|------|--|--------|--------|------|-------|---------|
| TAG | DESCRIPTION | CW | HW | VENT | WASTE | VOLTAGE |
| FD-1 | FLOOR DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 4" DRAIN OUTLET AND TRAP PRIMER CONNECTION. | - | - | 2" | 4" | Yes |
| P-1 | EMERGENCY SHOWER/EYE WASH : GUARDIAN EQUIPMENT GBF2170 OR EQUAL RECESSED COMBINATION EYE WASH SAFETY SHOWER STATION. WITH 10" DIAMETER ORANGE ABS PLASTIC SHOWER HEAD, 1" STAY OPEN BALL VALVE WITH STAINLESS STEEL ACTUATING ARM AND PULL ROD, 11-1/2" STAINLESS STEEL EYE WASH BOWL WITH SPRAY HEADS FLIP TOP DUST COVERS. PROVIDE WITH LEONARD TM-5100-STSTL-REC OR EQUAL EMERGENCY MIXING VALVE WITH RECESSED STAINLESS STEEL CABINET. | 1-1/4" | 1-1/4" | - | - | Yes |
| P-2 | SINGLE COMPARTMENT SINK : SINGLE COMPARTMENT STAINLESS STEEL SINK, 19"X21" O.D., 14"X18" I.D., 61/2" DEEP, 18 GAUGE, WITH 8" CENTERS. PROVIDE WITH 8" RIGID SPOUT GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROL HANDLES, REAR CENTERED CRUMB CUP STRAINER DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. COORDINATE WITH CASEWORK MANUFACTURER PRIOR TO ORDERING SINKS. | 1/2 | 1/2" | 2" | 2" | Yes |
| P-2A | SINGLE COMPARTMENT SINK - ADA STATION : SINGLE COMPARTMENT STAINLESS STEEL SINK, 19"X21" O.D., 14"X18" I.D., 61/2" DEEP, 18 GAUGE, WITH 8" CENTERS. PROVIDE WITH 8" RIGID SPOUT GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROL HANDLES, REAR CENTERED CRUMB CUP STRAINER DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS.COORDINATE WITH CASEWORK MANUFACTURER PRIOR TO ORDERING SINKS. | 1/2 | 1/2" | 2" | 2" | Yes |
| P-3 | SINGLE COMPARTMENT SINK - DOUBLE WASHBOARD : SINGLE COMPARTMENT STAINLESS STEEL SINK, 19"X21" O.D., 14"X18" I.D., 61/2" DEEP, 18 GAUGE, WITH 8" CENTERS. PROVIDE WITH 8" RIGID SPOUT GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROL HANDLES, REAR CENTERED CRUMB CUP STRAINER DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. PROVIDE WITH DOUBLE WASHBOARD. COORDINATE WITH CASEWORK MANUFACTURER PRIOR TO ORDERING SINKS. | 1/2 | 1/2" | 2" | 2" | Yes |
| P-4 | SINGLE COMPARTMENT SINK - INSTRUCTOR'S STATION : SINGLE COMPARTMENT STAINLESS STEEL SINK, 19"X21" O.D., 14"X18" I.D., 61/2" DEEP, 18 GAUGE, WITH 8" CENTERS. PROVIDE WITH 8" RIGID SPOUT GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROL HANDLES, REAR CENTERED CRUMB CUP STRAINER DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. COORDINATE WITH CASEWORK MANUFACTURER PRIOR TO ORDERING SINKS. | 1/2 | 1/2" | 2" | 2" | Yes |
| RD-1 | ROOF DRAIN - COMBINATION DRAIN : WATTS RD-700 OR EQUAL EPOXY COATED, CAST IROND DUAL OUTLET ROOF DRAIN/OVERFLOW COMBINATION WITH FLASHING CLAMP, INTEGRAL GRAVEL STOP, 4" HIGH INTERNAL OVERFLOW STANDPIPE, SECURED DUCTILE IRON DOME, AND NO HUB OUTLETS. | - | - | - | 4" | Yes |
| TP-1 | TRAP PRIMER TYPE-1 : PRECISIONS PLUMBING PRODUCTS PRIME-TIME OR EQUAL ELECTRONIC TRAP PRIMING MANIFOLD, WITH ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR CLOCK, MANUAL OVERRIDE SWITCH, 120 VOLT SOLENOID VALVE WITH 120V/3WIRE CONNECTION. PROVIDE IN 12" X 12" X 4" SURFACE MOUNTED METAL CABINET. PROVIDE WITH 10 OPENING MANIFOLD, UN-USED MANIFOLD OPENING SHALL BE CAPPED. INSTALL UNITED AS REQUIRED BY MANUFACTURER. | - | - | - | - | Yes |

HAZARDOUS MATERIAL NOTE:

- A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN
- CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS. B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR
- **DISPOSAL OF SUCH MATERIAL.** C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER
- IMMEDIATELY. D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES,
- AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES. E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PHASING NOTE:

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING DEMOLITION NOTES:

- A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.
- B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES. D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE. F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT
- SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

PLUMBING GENERAL NOTES:

- A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE
- CONTRACTOR. B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES,
- UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPI Y C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER
- OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR
- THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER. G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS
- (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.) H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING
- DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED
- BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS. J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING
- WITH NO INTERFERENCE. K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR
- ATTENTION TO INSULATED PIPING PENETRATIONS. L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES. M. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING
- EXCEPT AS NOTED. N. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE
- CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS. O. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS. P. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN.
- PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY. Q. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY
- ETC.). R. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE
- DOCUMENTS. S. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS. T. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION
- PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- U. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- V. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE
- SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING. W. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH
- WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE. X. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN
- FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE. Y. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
- Z. THE DOCUMENTS COMPLY WITH 2015 IMC, 2018 KBC, AND 2012 IECC. AA. THE DOCUMENTS COMPLY WITH 2015 IMC, 2018 KBC, AND ASHRAE 90.1-2010.

REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE

REGULATIONS, STANDARD AND SAFETY REQUIREMENTS.

D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM

(TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC.,

THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT.

METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE

REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER,

SYMBOLS & ABBREVIATIONS

A, AIR

AFF

AFR

C.I.

CO2

CW

DN

ΕV

FHV

FPWH

HW

IAW

LPA

MH

MSA

NTS

NIC

NO

O, OX

OD

OFCI

OFOI

CFCI

OR

ORL

PRV

PSI

RHW

SCW

SR

TB

TP

TYP

UON

V, VAC

VTR

| MEDICAL AIR |
|--|
| ABOVE FINISHED FLOOR |
| ABOVE FINISHED ROOF |
| CAST IRON |
| CARBON DIOXIDE |
| DOMESTIC COLD WATER |
| DOWN |
| EVACUATION (WASTE ANESTHETIC GAS DISPOSAL) |
| FIRE HOSE VALVE WITH CABINET |
| FREEZE PROOF WALL HYDRANT |
| HOSE BIBB |
| DOMESTIC HOT WATER |
| IN ACCORDANCE WITH |
| INSIDE DIMENSION |
| INVERT ELEVATION |
| LINE PRESSURE ALARM (MEDICAL GAS AREA ALARM) |
| MANHOLE |
| MULTI-SINGLE ALARM (MEDICAL GAS MASTER ALARM) |
| NOT TO SCALE |
| NOT IN CONTRACT |
| NORMALLY OPEN |
| NORMALLY CLOSED |
| OXYGEN |
| OUTSIDE DIMENSION |
| OWNER FURNISHED, CONTRACTOR INSTALLED |
| OWNER FURNISHED, OWNER INSTALLED |
| CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| OPEN RECEPTACLE |
| OVERFLOW ROOF LEADER |
| PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS) |
| POUNDS PER SQUARE INCH |
| DOMESTIC RECIRCULATING HOT WATER |
| ROOF LEADER |
| SOFT DOMESTIC COLD WATER |
| SANITARY RISER |
| THRUST BLOCK |
| TOP ELEVATION |
| TRAP PRIMER |
| TYPICAL |
| UNLESS OTHERWISE NOTED |
| VACUUM |
| |
| VENT THRU ROOF |
| VENT THRU ROOF |

| | POINT OF CONNECTION |
|-----------|-----------------------------|
| | LIMIT OF DEMOLITION |
| | PIPE ELBOW TURNING UP/TUP |
| | PIPE TEE TURNING UP/TURNI |
| | MEDICAL AIR |
| | COMPRESSED AIR |
| | FORCED MAIN |
| | FIRE PROTECTION LINE |
| | GAS LINE |
| | SANITARY WASTE PIPING TO |
| | OXYGEN PIPING |
| | OVERFLOW ROOF LEADER PI |
| | ROOF LEADER PIPING |
| | SANITARY WASTE PIPING |
| | STORM SEWER PIPING |
| | VACUUM PIPING |
| | VENT PIPING |
| | EXISTING PIPING (THIN LINE) |
| | ABANDONED EXISTING PIPING |
| | DOMESTIC COLD WATER PIPI |
| | DOMESTIC HOT WATER SUPP |
| | DOMESTIC RECIRCULATING H |
| | CLEANOUT IN CEILING SPACE |
| <u>)</u> | FLOOR CLEANOUT |
| <u>)</u> | EXTERIOR CLEANOUT |
| <u>;0</u> | BALANCING VALVE |
| | BALL VALVE |
| | SAFETY RELIEF VALVE |
| | SAFETY RELIEF VALVE |
| | OS&Y (GATE) VALVE |
| | PRESSURE REDUCING VALVE |
| | STRAINER |
| | CHECK VALVE |
| | DOUBLE CHECK VALVE ASSE |
| | PIPING UNION |
| | FLOW SWITCH |
| | PRESSURE SWTICH |
| | TAMPER SWITCH |
| | THERMOMETER |
| | VACUUM BREAKER |
| | LIMITED AREA SPRINKLER HE |
| | PETE'S PLUG |
| | FLOOR DRAIN DESIGNATOR |
| | ROOF DRAIN DESIGNATOR |
| | PLUMBING FIXTURE DESIGNA |
| | EQUIPMENT TAG DESIGNATO |
| | TAGGED NOTE DESIGNATOR |
| | REVISION DESIGNATOR |
| | TEMPERATURE SENSOR |
| | HOSE BIB |
| | |

——o ——∋

-0- -0-

—— A ——

—— CA ——

——FM ——

------ FP ------

———GW———

____0____

------ ORL ------

—— RL ——

------ SAN ------

_____ SS _____

—— V ——

— VT —

— E(NAME) —

–ABAN(NAME)–

____∲____

_____\$____

____K____

— |, | —

₽^{PS}

<u>FD-#</u>

<u>RD-#</u>

<u>P-#</u>

XXX

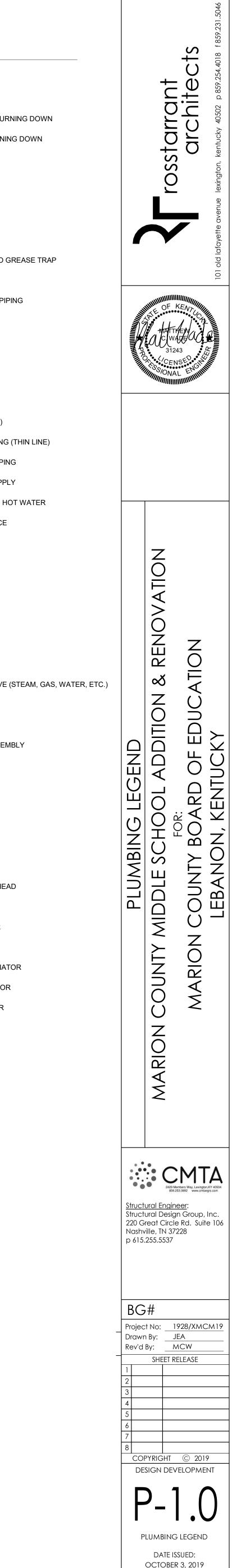
 $\langle x \rangle$

XX

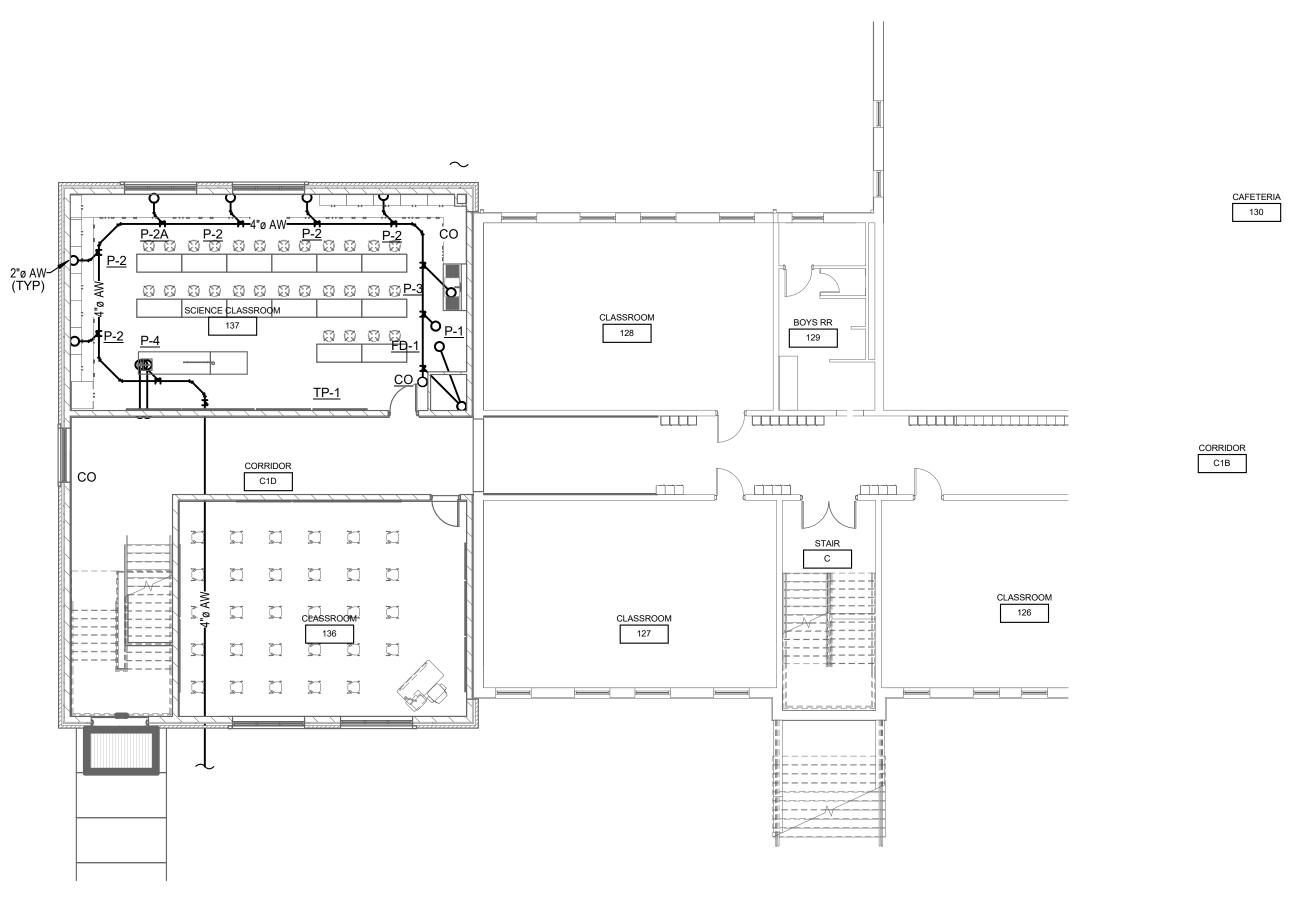
 (\mathbf{x}_{s})

<u>∕</u>___0

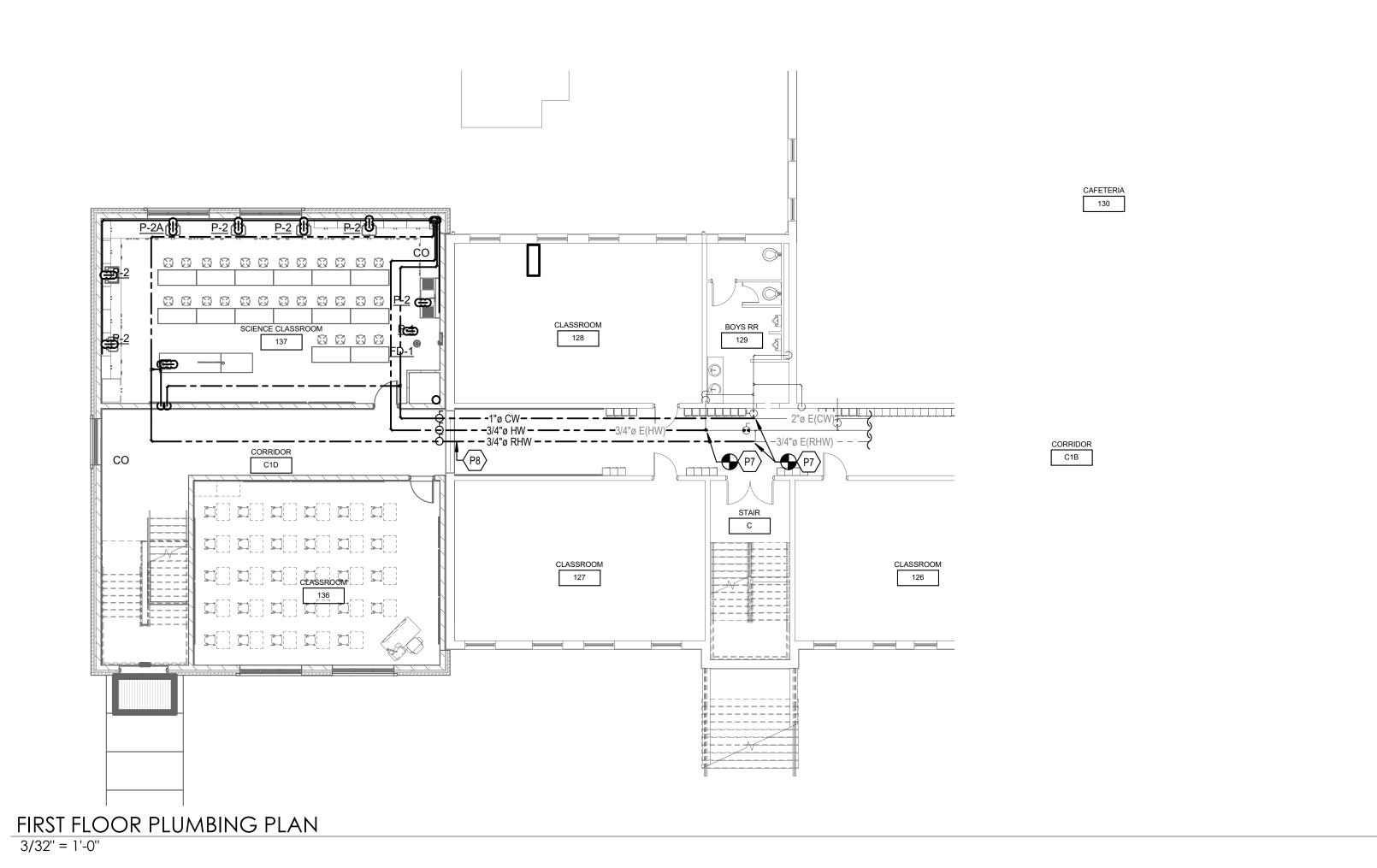
TMV



| | REVIS | SIONS |
|---|-------|-------------|
| # | DATE | DESCRIPTION |
| | | - |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

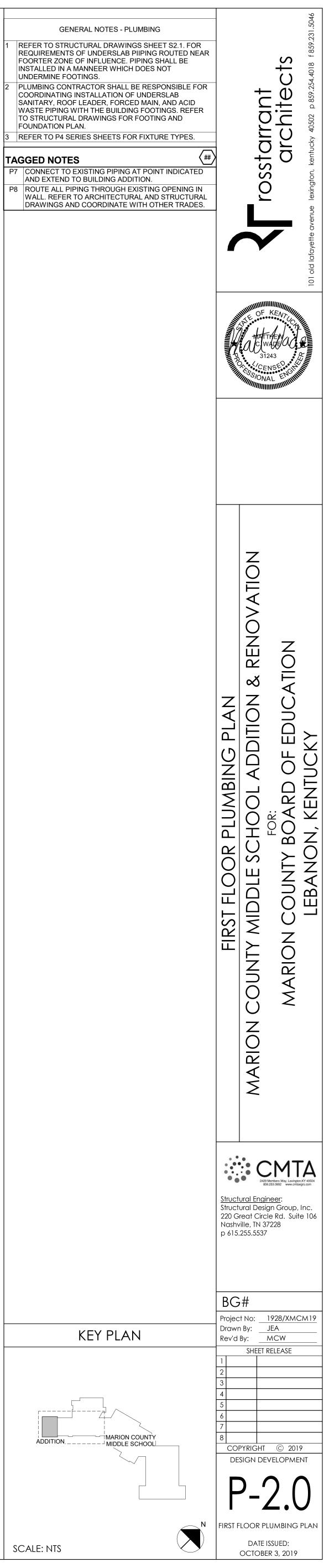


UNDERSLAB PLUMBING PLAN 3/32" = 1'-0"



UNDERMINE FOOTINGS. FOUNDATION PLAN.

TAGGED NOTES

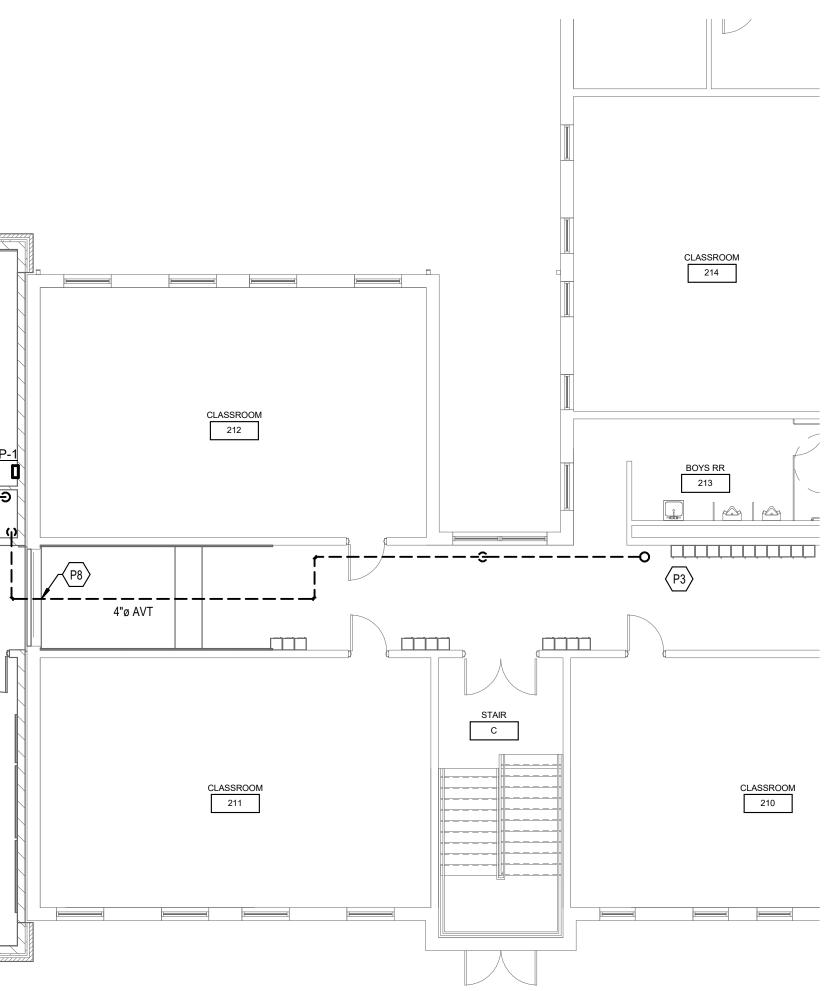


SCALE: NTS

| | REVIS | sions |
|---|-------|-------------|
| # | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

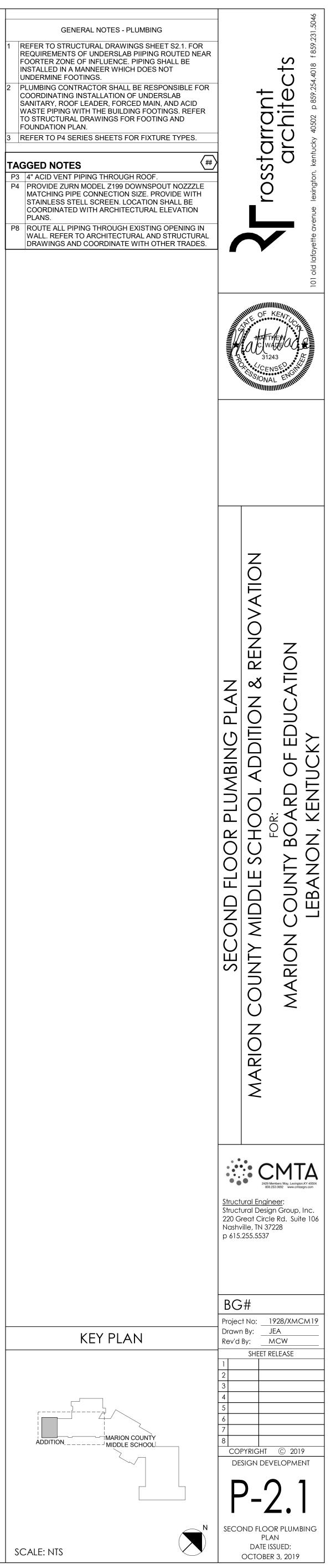
| k | (P4) | |
|-----------------|------|---------|
| | | |
| | | |
| | | STORAGE |
| | | |
| | | |
| | | |
| CORRIDOR C2D | | |
| | | |
| | | |
| | | |
| | | |

SECOND FLOOR PLUMBING PLAN 1/8" = 1'-0"



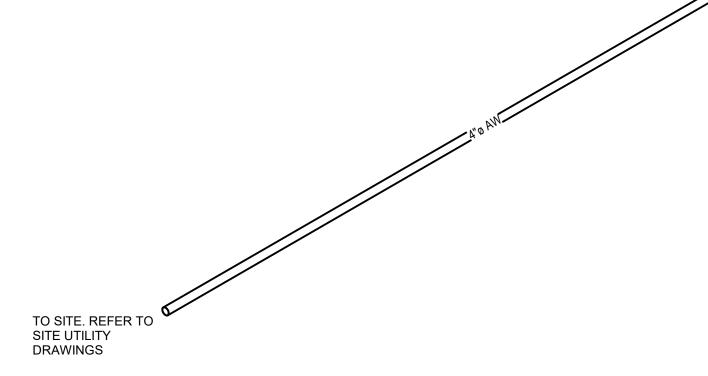
| | GENERAL N |
|---|--|
| | REFER TO STRUCTURAL REQUIREMENTS OF UND FOORTER ZONE OF INFL INSTALLED IN A MANNEE UNDERMINE FOOTINGS. |
| | PLUMBING CONTRACTO COORDINATING INSTALL SANITARY, ROOF LEADE WASTE PIPING WITH THI TO STRUCTURAL DRAWI FOUNDATION PLAN. |
| | REFER TO P4 SERIES SH |
| Ā | GGED NOTES |

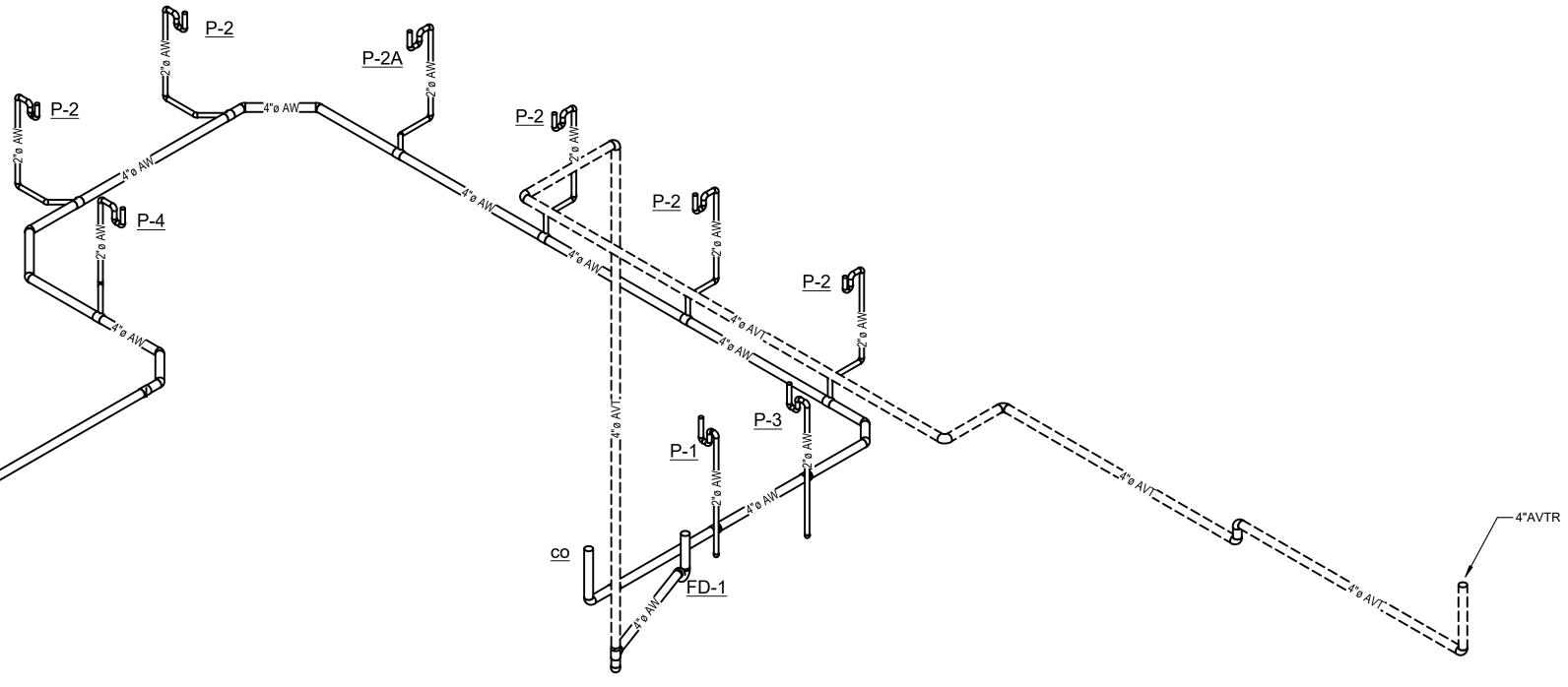
PLANS.

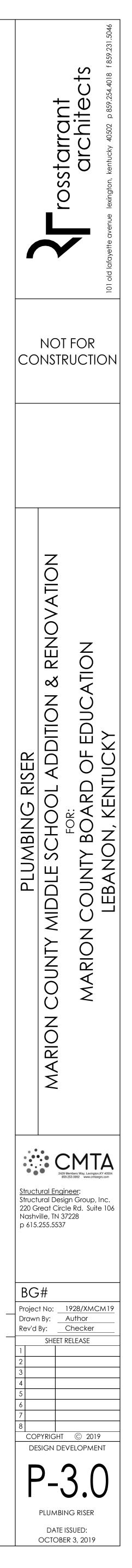


scale: NTS

| SCRIPTION |
|-----------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |







| | SIONS | REVIS | |
|----|-------------|-------|----------|
| G | DESCRIPTION | DATE | # |
| A. | | | |
| | | | |
| | | | |
| В. | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| C. | | | |
| | | | |
| | | | |
| | | | |
| D. | | | |
| E. | | | |
| F. | | | |
| | | | |
| | | | \vdash |
| G. | <u> </u>] | | |
| | | | |

GENERAL NOTES - MECHANICAL COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.) H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

K. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES. L. ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

M. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS. N. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

O. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

P. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT. Q. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE

WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT. R. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH

WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION. S. SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT. ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE

CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED. U. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT

APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK. V. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

W. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. X. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING

EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

Y. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

AA. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE. BB. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S

SAFETY POLICY REQUIREMENTS.

PHASING NOTES

DRAWINGS.

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, GEOTHERMAL PIPING MAINS, SANITARY MAINS, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

B. REFER TO ADDITIONAL PHASING REQUIREMENTS AS NOTED ON THE

| BBREVIA | |
|---------|---|
| AC | |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AFR | ABOVE FINISHED ROOF |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AMP | AMPERE (AMP, AMPS) |
| ANSI | AMERICAN NATIONAL STANDARD INSTITUTE |
| APD | |
| ASHRAE | AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS |
| ATU | AIR TERMINAL UNIT |
| AVG | AVERAGE |
| BAS | BUILDING AUTOMATION SYSTEM |
| BHP | BREAK HORSEPOWER |
| BTU | BRITISH THERMAL UNIT |
| CAP | CAPACITY |
| CAV | CONSTANT AIR VOLUME |
| CD | CONDENSATE DRAIN |
| CFM | CUBIC FEET PER MINUTE |
| C.I. | CAST IRON |
| CLG | CEILING |
| CLR | CLEAR |
| CO | CARBON MONOXIDE |
| CO2 | CARBON DIOXIDE |
| COND | CONDENS (-ER, -ING, -ATION, -ATE) |
| CONT | CONTINU (-ED, -OUS) |
| CU FT | CUBIC FEET |
| CU IN | CUBIC INCHES |
| CV | VALVE FLOW COEFFICIENT |
| dB | DECIBEL |
| DB | DRY BULB |
| DBT | DRY BULB TEMPERATURE |
| DC | DIRECT CURRENT |
| DD | DUCT SMOKE DETECTOR |
| DDC | DIRECT DIGITAL CONTROLS |
| DEG | DEGREE (-S) |
| DIA | DIAMETER (-S) |
| DN | DOWN |
| DWG | DRAWING |
| EAT | ENTERING AIR TEMPERATURE |
| EC | ELECTRICAL CONTRACTOR |
| ELEV | ELEVA (-TION, -TOR) |
| ENGR | ENGINEER |
| | |
| EQ | EQUAL |
| ESP | EXTERNAL STATIC PRESSURE |
| ETR | |
| EVAP | EVAPORAT (-E, -ING, -ED, -OR, -ION) |
| EWT | |
| EXP | EXPANSION |
| EXT | EXTERIOR |
| FA | FREE AREA |
| | |

HAZARDOUS MATERIALS NOTES

- IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL. C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR
- RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
- AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD
- HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

INFORMATION.

| FD | FIRE DAMPER | | | |
|-------|---|--|--|--|
| FL | FLOOR | | | |
| FLA | FULL LOAD AMPS | | | |
| FOB | FLAT ON BOTTOM | | | |
| FOT | FLAT ON TOP | | | |
| FPC | FIRE PROTECTION CONTRACTOR | | | |
| FPM | FEET PER MINUTE | | | |
| FPS | FEET PER SECOND | | | |
| FT | FEET OR FOOT | | | |
| FUT | FUTURE | | | |
| FV | FACE VELOCITY | | | |
| GA | GAGE/GAUGE | | | |
| GAL | GALLON (-S) | | | |
| GC | GENERAL CONTRACTOR | | | |
| GPD | GALLONS PER DAY | | | |
| GPH | GALLONS PER HOUR | | | |
| GPM | GALLONS PER MINUTE | | | |
| GR | GRAINS | | | |
| Н | HUMIDITY | | | |
| HD | HEAD | | | |
| HG | MERCURY | | | |
| HORIZ | HORIZONTAL | | | |
| HP | H (-ORSEPOWER, -EAT PUMP) | | | |
| HR | HOUR (-S) | | | |
| HVAC | HEATING, VENTILATING, & AIR-CONDITIONING | | | |
| Hz | HERTZ | | | |
| ID | I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION) | | | |
| IN | INCH (-ES) | | | |
| INSUL | INSULAT (-ED, -ION) | | | |
| INT | INTER (-IOR, -ERVAL) | | | |
| IPS | IRON PIPE SIZE | | | |
| kW | KILOWATT | | | |
| kWh | KILOWATT HOUR | | | |
| LAT | LEAVING AIR TEMPERATURE | | | |
| LBS | POUNDS | | | |
| LF | LINEAR FEET/FOOT | | | |
| LRA | LOCKED ROTOR AMPS | | | |
| LWT | LEAVING WATER TEMPERATURE | | | |
| MAX | MAXIMUM | | | |
| MBH | BTU PER HOUR [THOUSANDS] | | | |
| MCA | MINIMUM CIRCUIT AMPS | | | |
| MFG | MANUFACTURER | | | |
| MIN | MIN (-IMUM, -UTE) | | | |
| MISC | MISCELLANEOUS | | | |
| МОСР | MAXIMUM OVERCURRENT PROTECTION [AMPS] | | | |
| MTG | MOUNTING | | | |
| N/A | NOT APPLICABLE | | | |
| NC | NOISE CRITERIA OR NORMALLY CLOSED | | | |
| NEBB | NATIONAL ENVIRONMENTAL BALANCING BUREAU | | | |
| | | | | |

ABBREVIATIONS (CONTINUED)

| ABBREVIA | FIONS (CONTINUED) |
|----------|---|
| NO | NORMALLY OPEN OR NUMBER |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DI (-AMETER, -MENSION) |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| OR | OPEN RECEPTACLE |
| OZ | OUNCE (-S) |
| PC | PLUMBING CONTRACTOR |
| PD | PRESSURE DROP |
| PH | PHASE [ELECTRICAL] |
| PLBG | PLUMBING |
| PPM | PARTS PER MILLION |
| PRS | PRESSURE REDUCING STATION |
| PRV | PRESSURE REDUCING VALVE (STEAM, WATER, GAS) |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | PPSI GAUGE |
| RH | RELATIVE HUMIDITY [%] |
| RLA | RUNNING LOAD AMPS |
| RPM | REVOLUTIONS PER MINUTE |
| SD | SMOKE DAMPER |
| SP | STATIC PRESSURE |
| SQ | SQUARE |
| SQ FT | SQUARE FEET OR FOOT |
| SQ IN | SQUARE INCH OR INCHES |
| ТАВ | TESTING AND BALANCING |
| TBD | TO BE DETERMINED |
| TE | TOP ELEVATION |
| TEMP | TEMPERATURE |
| TSP | TOTAL STATIC PRESSURE |
| ТҮР | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| V | VOLT (-AGE, -S) |
| VAR | VARI (-ABLE, -IES) |
| VAV | VARIABLE AIR VOLUME |
| VEL | VELOCITY |
| VFD | VARIABLE FEQUENCY DRIVE |
| W | WATT (-AGE, -S) |
| WB | WET BULB |
| WBT | |
| WPD | |
| WT | WEIGHT |
| W/ | WITH |
| W/O | WITHOUT |
| % | PERCENT |
| ΔP | |
| ΔΤ | |
| ¢_ | CENTERLINE |

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT

D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS

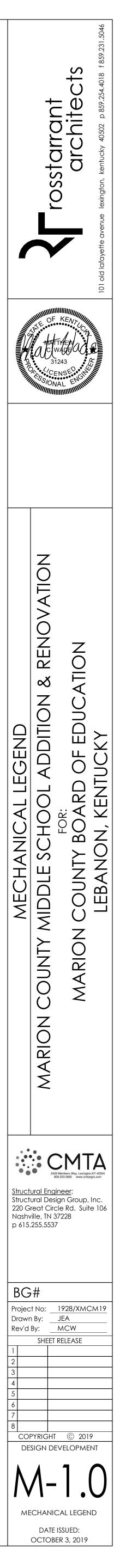
E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER

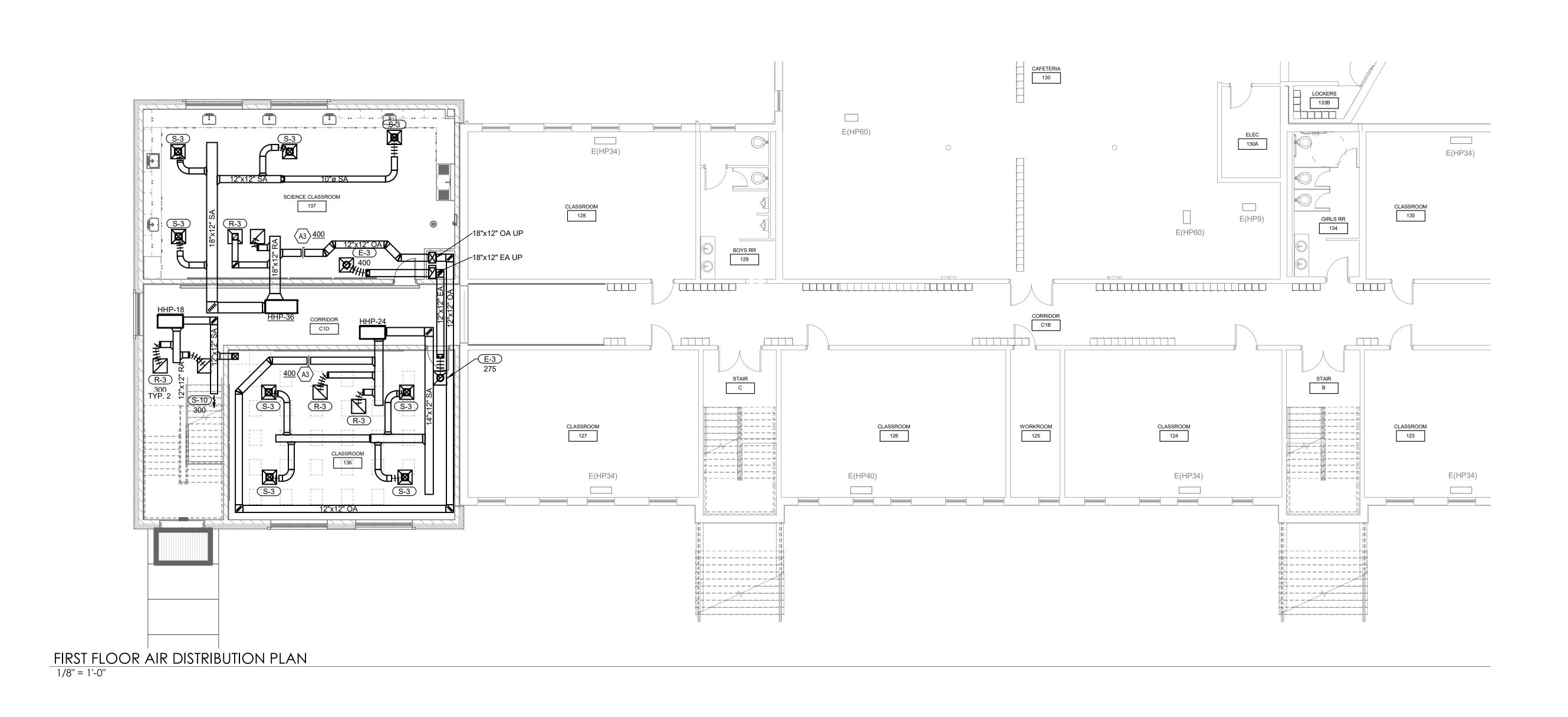
| GENERAL S | GENERAL SYMBOLS | | | | |
|----------------------------|---|--|--|--|--|
| # | TAGGED NOTE DESIGNATOR | | | | |
| \bigotimes | REVISION TRIANGLE | | | | |
| ROOM NAME RM # | ROOM TAG | | | | |
| TAG XXX-# INSTANCE XXXX | EQUIPMENT TAG | | | | |
| • | POINT OF CONNECTION / CONNECT TO EXISTING | | | | |
| \$ | POINT OF DEMOLITION | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| HVAC LEGE | ND |
|---------------------------------|--|
| | SUPPLY AIR DIFFUSER |
| DD | RETURN AIR DIFFUSER |
| | EXHAUST AIR DIFFUSER |
| | TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT |
| _ | SIDEWALL DIFFUSER/GRILLE |
| X | SIDEWALL DIFFUSER/GRILLE |
| TAG XXX AIRFLOW #,### | AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER) |
| ##/## | RECTANGULAR DUCT |
| #ø | ROUND/SPIRAL DUCT |
| ##/## Φ | FLAT OVAL DUCT |
| SA | SUPPLY AIR DUCT |
| RA | RETURN AIR DUCT |
| EA | EXHAUST AIR DUCT |
| OA | OUTSIDE AIR DUCT |
| TA | TRANSFER AIR DUCT |
| SA 1 | SA AIR DUCT TURNING UP |
| × SA | SA AIR DUCT TURNING DOWN |
| RA | RA AIR DUCT TURNING UP |
| RA | RA AIR DUCT TURNING DOWN |
| EA | EA AIR DUCT TURNING UP |
| EA | EA AIR DUCT TURNING DOWN |
| E(XXX) | EXISTING DUCT - (XXX) DENOTES SYSTEM |
| | DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM |
| A(XXX) | DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM |
| ચ્ચ્ | MITERED ELBOW WITH TURNING VANES |
| K+++++ | FLEXIBLE DUCT |
| T | THERMOSTAT |
| Ţ | TEMPERATURE SENSOR |
| (H) | HUMIDITY SENSOR |
| © | CARBON DIOXIDE SENSOR |
| Ū | TEMPERATURE & CARBON DIOXIDE SENSOR |
| VERT. HORIZ. | MANUAL BALANCING/VOLUME DAMPER |
| VERT. HORIZ. | MOTORIZED DAMPER |
| VERT. | FIRE DAMPER |
| VERT. HORIZ. | SMOKE DAMPER |
| VERT. HORIZ. | COMBINATION FIRE & SMOKE DAMPER |

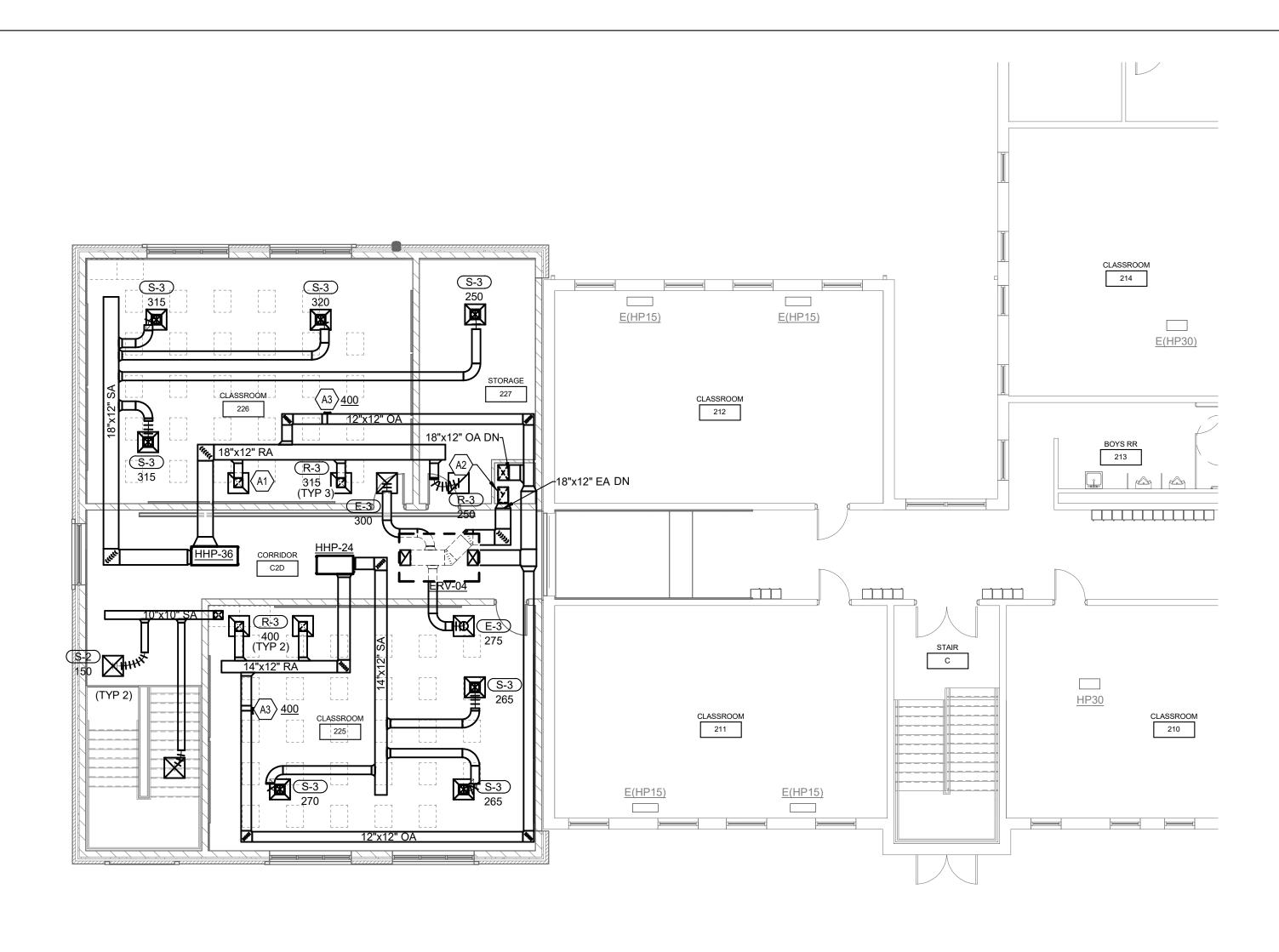
| —o | PIPE ELBOW TURNING UP | | | |
|-------------------------|---|--|--|--|
| | PIPE ELBOW TURNING DOWN | | | |
| | PIPE TEE; CONNECTION ON TOP | | | |
| | PIPE TEE; CONNECTION ON BOTTOM | | | |
| | PIPE CAP | | | |
| CD | CONDENSATE DRAIN | | | |
| -CHWS/R- | CHILLED WATER SUPPLY/RETURN | | | |
| GS/R | GEOTHERMAL WATER SUPPLY/RETURN | | | |
| SVT | STEAM VENT PIPING | | | |
| - D(XXX) | PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM | | | |
| -E(XXX) | EXISTING PIPING - (XXX) DENOTES SYSTEM | | | |
| -A(XXX) | ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM | | | |
| -\$ | TWO-WAY CONTROL VALVE | | | |
| | THREE-WAY CONTROL VALVE | | | |
| Ø | AUTOMATIC AIR VENT (AAV) | | | |
| <u> </u> | MANUAL AIR VENT (MAV) | | | |
| $-\overline{\diamond}-$ | MANUAL BALANCING VALVE (BV) | | | |
| δ | BALL VALVE | | | |
| | BUTTERFLY VALVE | | | |
| | TRIPLE DUTY VALVE (TDV) | | | |
| - , | STRAINER | | | |
| | MANUAL ISOLATION VALVE | | | |
| | GLOBE VALVE | | | |
| ∲ | OS&Y (GATE) VALVE | | | |
| | PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) | | | |
| -2- | AUTO-FLOW CONTROL VALVE | | | |
| | CHECK VALVE | | | |
| | DOUBLE CHECK VALVE ASSEMBLY | | | |
| | FLEXIBLE PIPE CONNECTION | | | |
| | FLOW METER (VENTURI) | | | |
| — <u> </u> | PIPING UNION | | | |
| P ^{FS} | FLOW SWITCH | | | |
| P ^{PS} | PRESSURE SWTICH | | | |
| Р тs | TAMPER SWITCH | | | |
| Щ | THERMOMETER | | | |
| | PETE'S PLUG; TEMPERATURE/PRESSURE PORT | | | |

| APPLICABLE BUILDING CODES | | | | |
|---|---------------|------|--|--|
| APPLICABLE BUILDING CODES | DOCUMENT | YEAR | | |
| ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES | ANSI A117.1 | 2009 | | |
| FIRE SPRINKLER CODE | | 2010 | | |
| INTERNATIONAL BUILDING CODE (IBC) | STATE EDITION | 2015 | | |
| ASHRAE 90.1 | STATE EDITION | 2010 | | |
| INTERNATION FIRE CODE (IFC) | STATE EDITION | 2015 | | |
| INTERNATION FUEL GAS CODE (IFGC) | STATE EDITION | 2015 | | |
| INTERNATION MECHANICAL CODE (IMC) | STATE EDITION | 2015 | | |
| INTERNATION PLUMBING CODE (IPC) | STATE EDITION | 2015 | | |
| INTERNATION EXISTING BUILDING CODE (IEBC) | STATE EDITION | 2009 | | |
| NATIONAL ELECTRIC CODE (NEC) | NFPA 70 | 2011 | | |
| NATIONAL FIRE ALARM & SIGNALING CODE | NFPA 72 | 2010 | | |
| KENTUCKY BUILDING CODE | | 2018 | | |





SECOND FLOOR AIR DISTRIBUTION PLAN

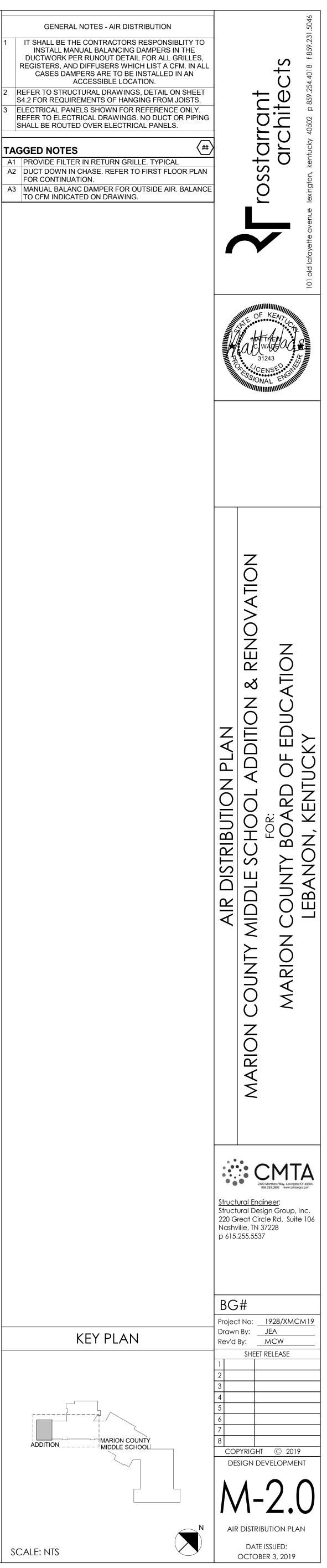


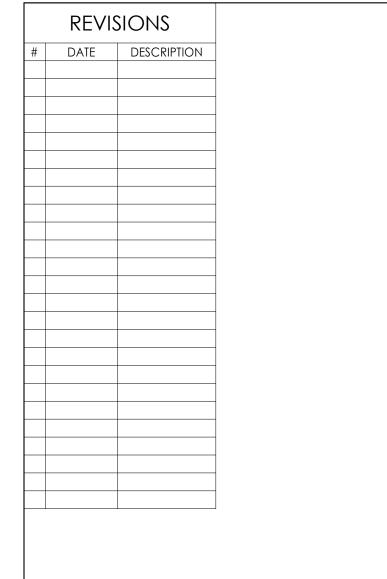
| # | DATE | DESCRIPTION |
|---|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

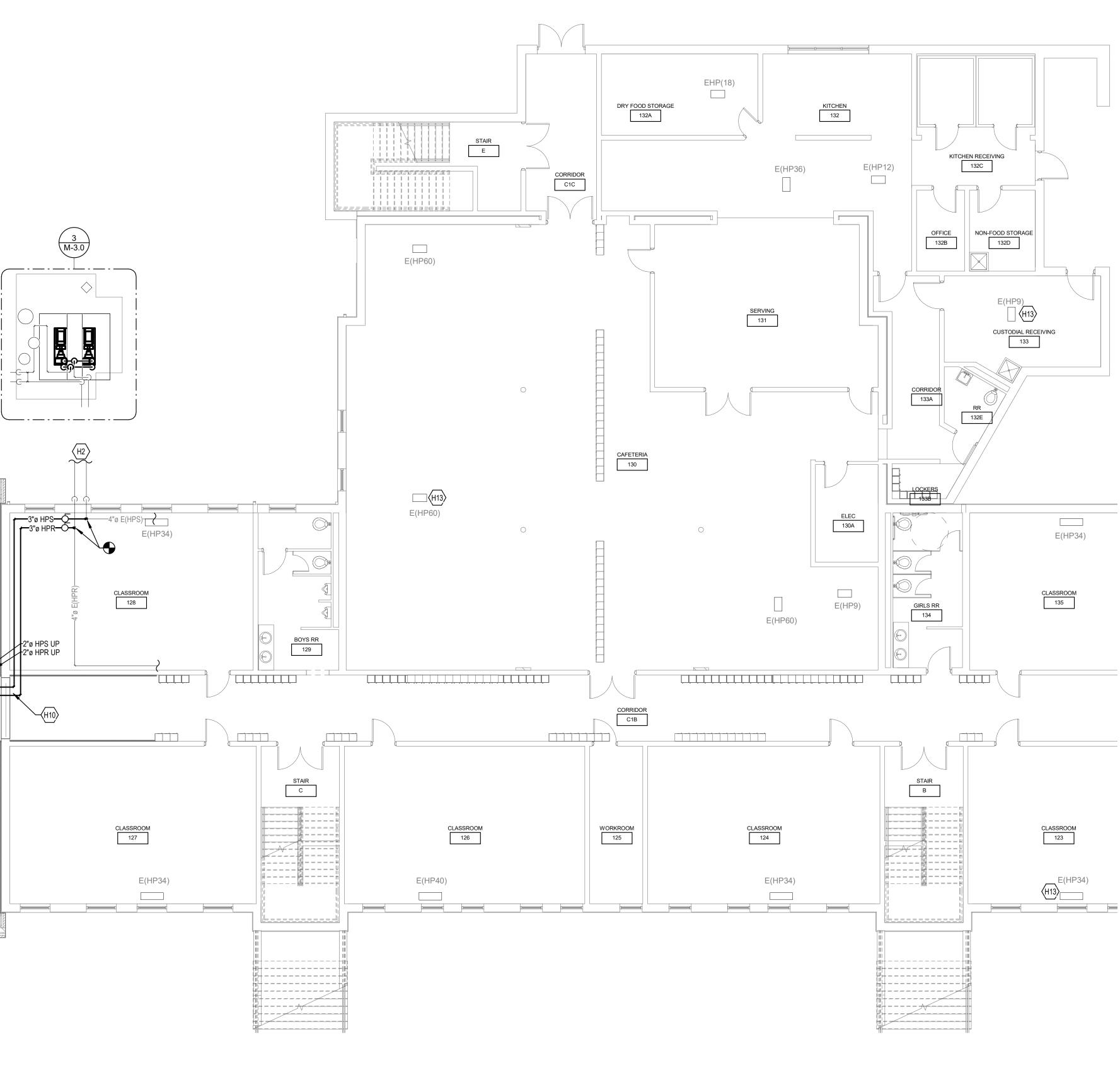
TAGGED NOTES

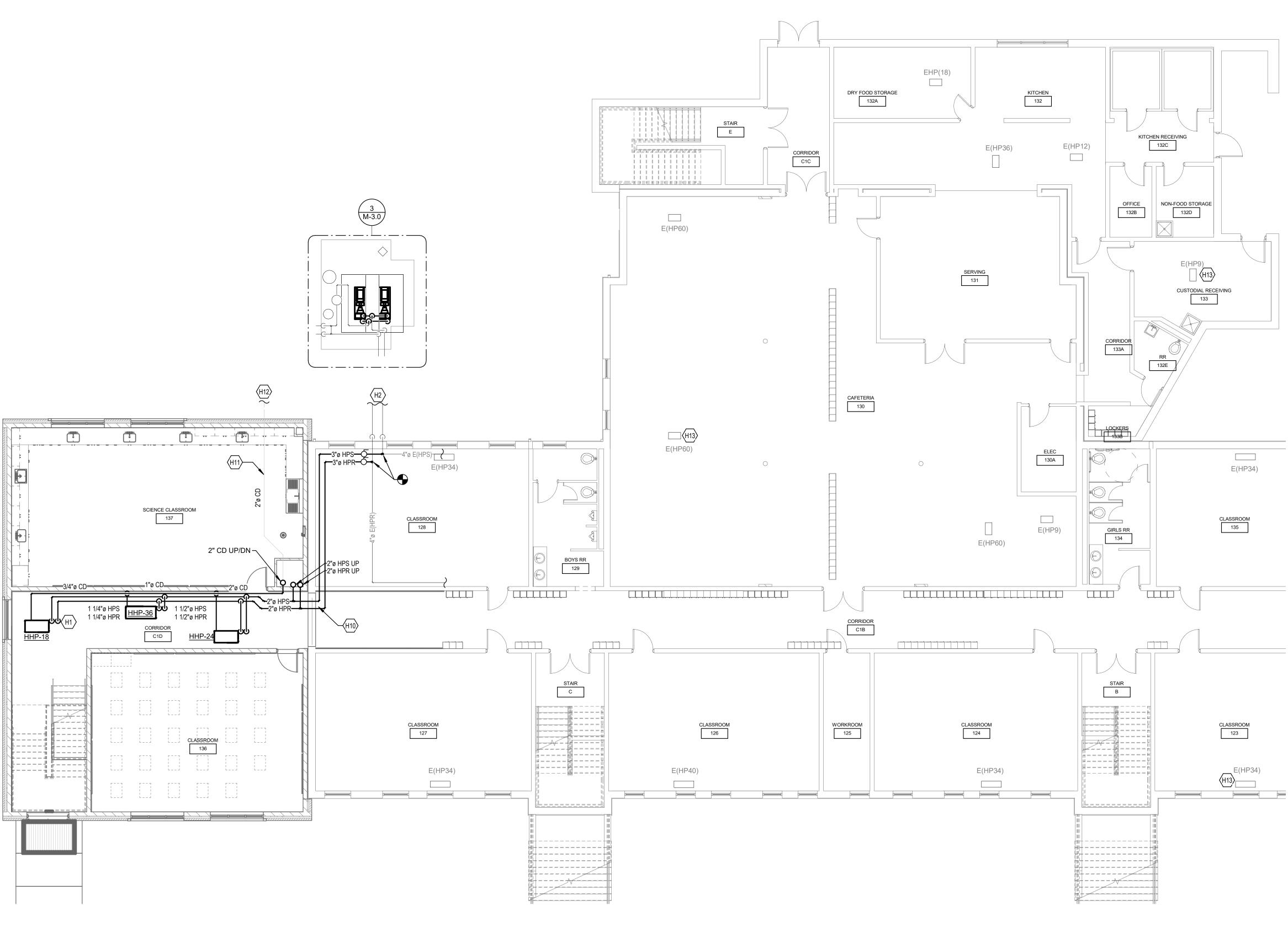
A1 PROVIDE FILTER IN RETURN GRILLE. TYPICAL FOR CONTINUATION.

SCALE: NTS

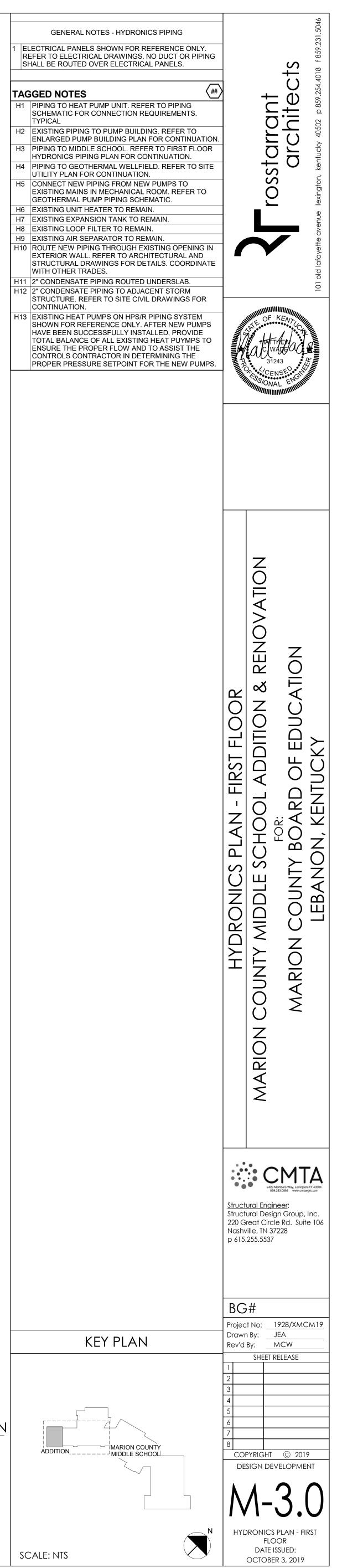


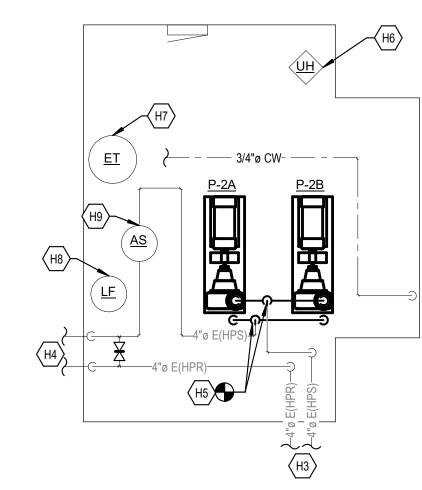




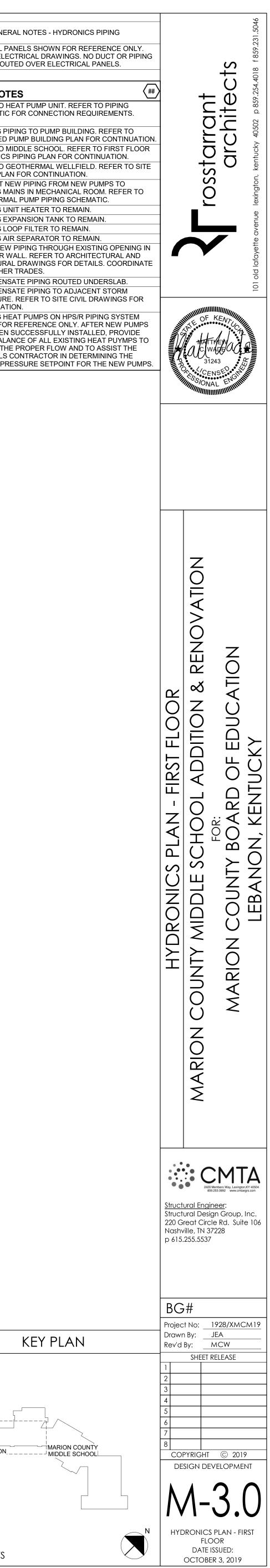


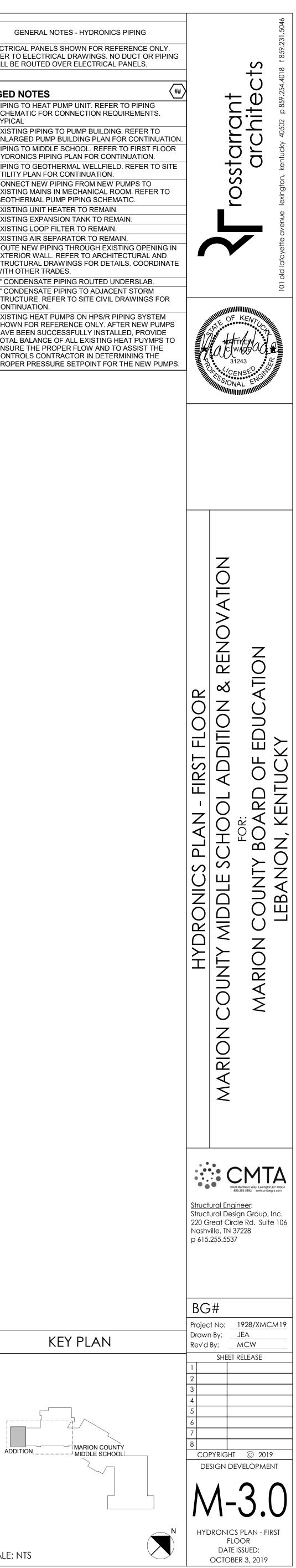
FIRST FLOOR HYDRONICS PIPING PLAN





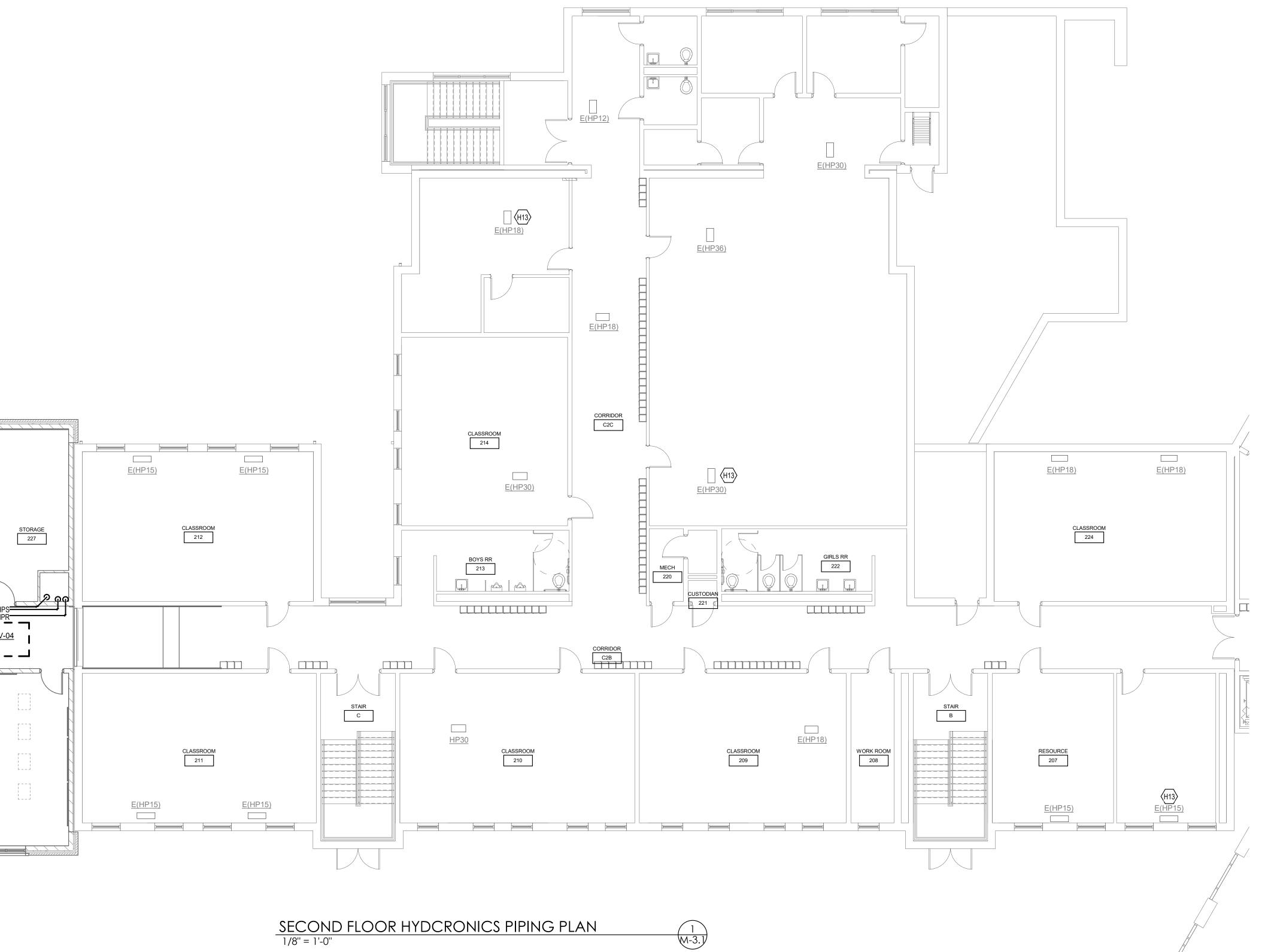
ENLARGED PUMP ROOM HYDRONICS PIPING PLAN

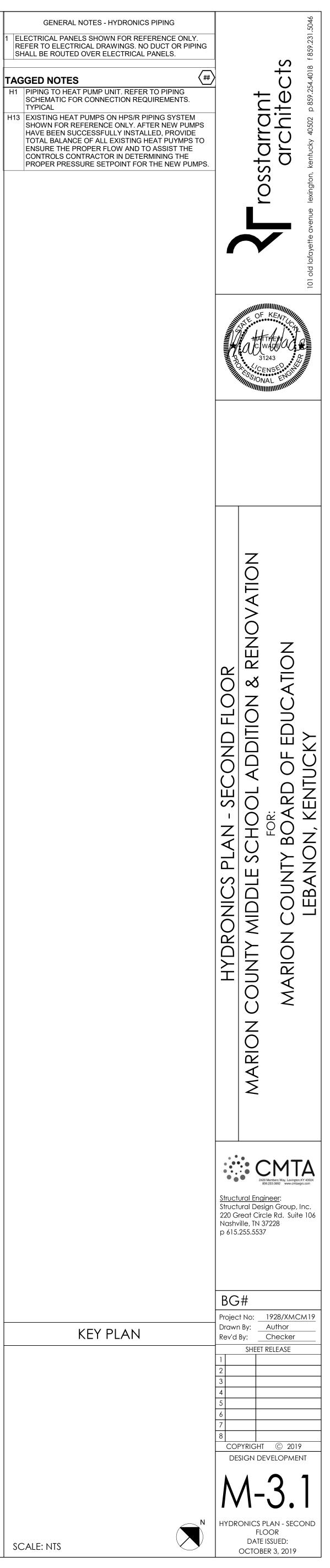




| | REVISIONS | | | | | |
|----------|-----------|-------------|--|--|--|--|
| # | DATE | DESCRIPTION | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| <u> </u> | | | | | | |
| | | | | | | |
| | | | | | | |

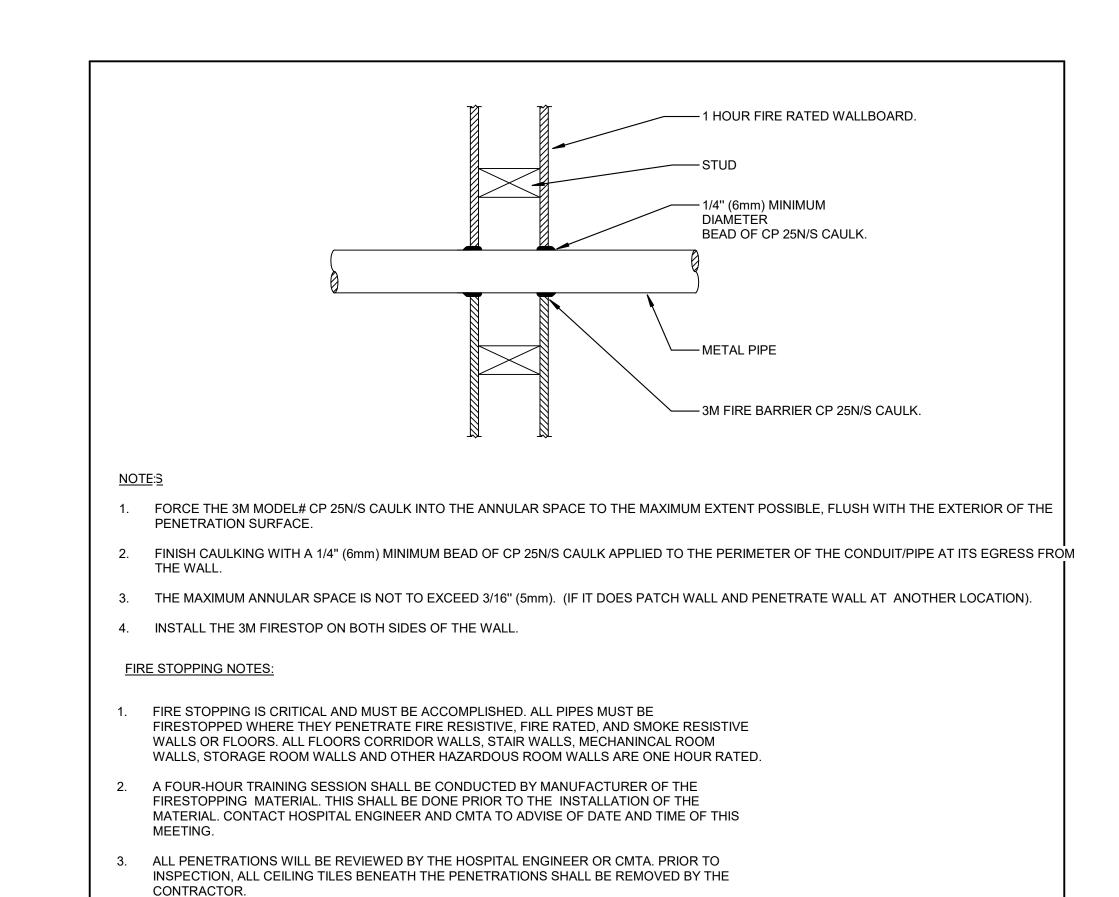
| | | ROOM | | | | |
|------|--------|-------|----------|-------|-------------|--------------------|
| | | | | | | |
| | | | | | \square | |
| | | "ø CD | <u> </u> | 2"ø_C | ։ը/ Լ Ռ | 2"ø HPS 2"ø HPF |
| (H1) | HHP-36 | | | | ს ს L | 2"ø HPF |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | CLASS | RÓOM | |
| | | | | | 25 | |
| | | | | | | |
| | | | | | | |



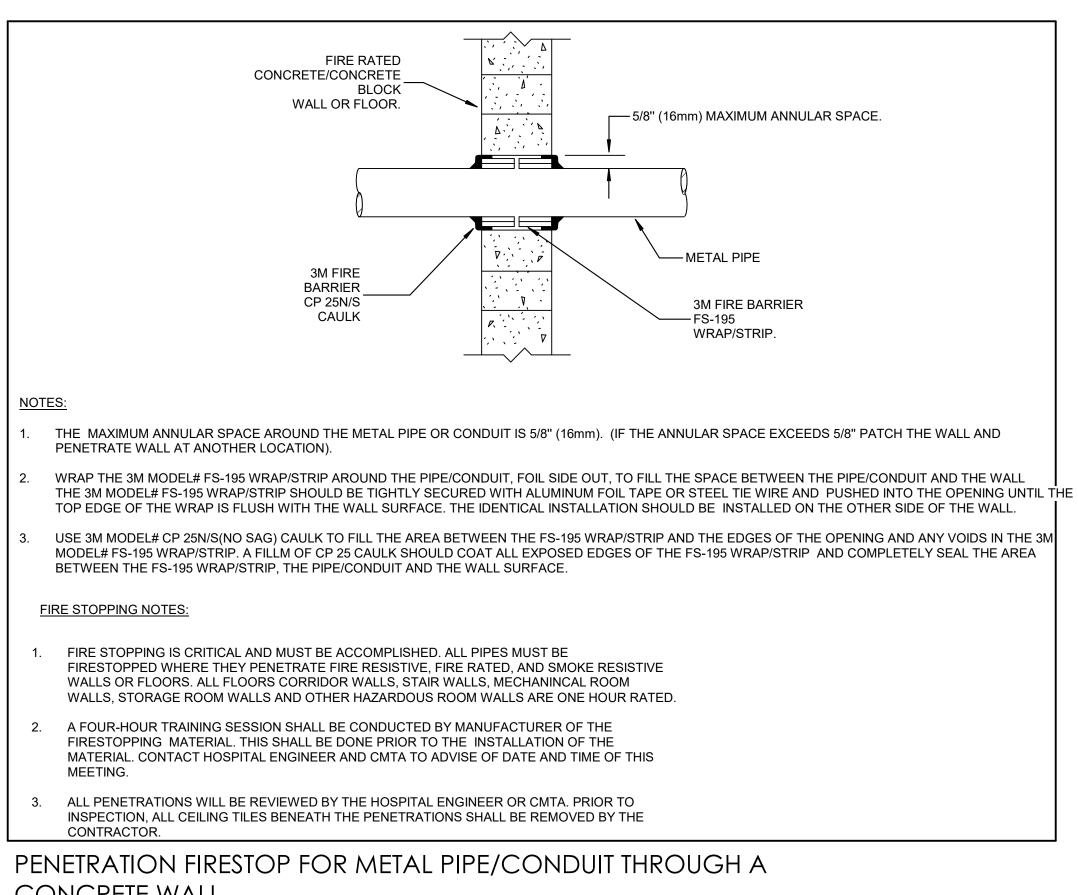


TAGGED NOTES

| REVISIONS | | | | |
|-----------|------|-------------|--|--|
| # | DATE | DESCRIPTION | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL

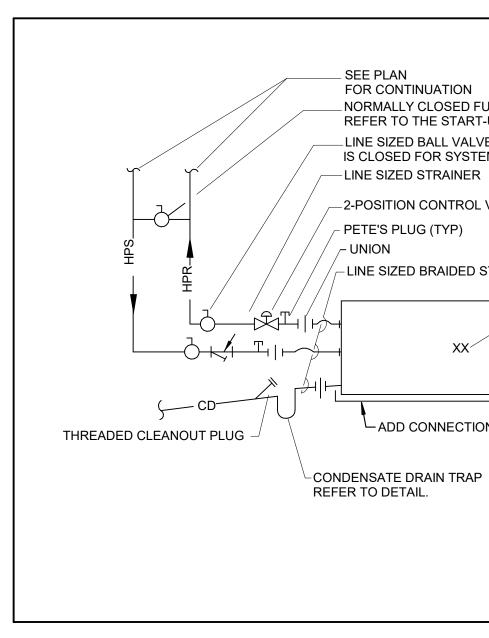


NOT TO SCALE

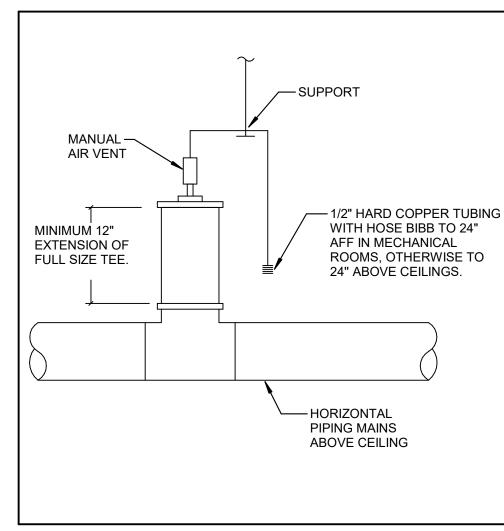
CONCRETE WALL NOT TO SCALE



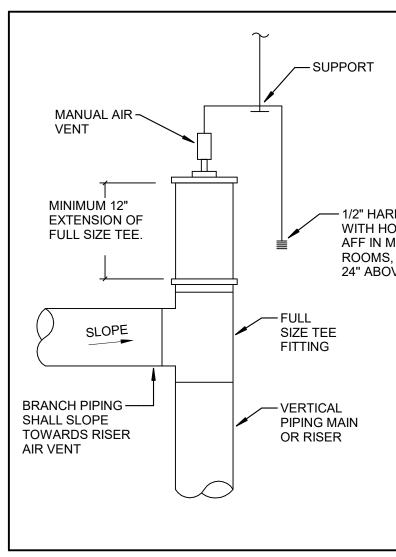




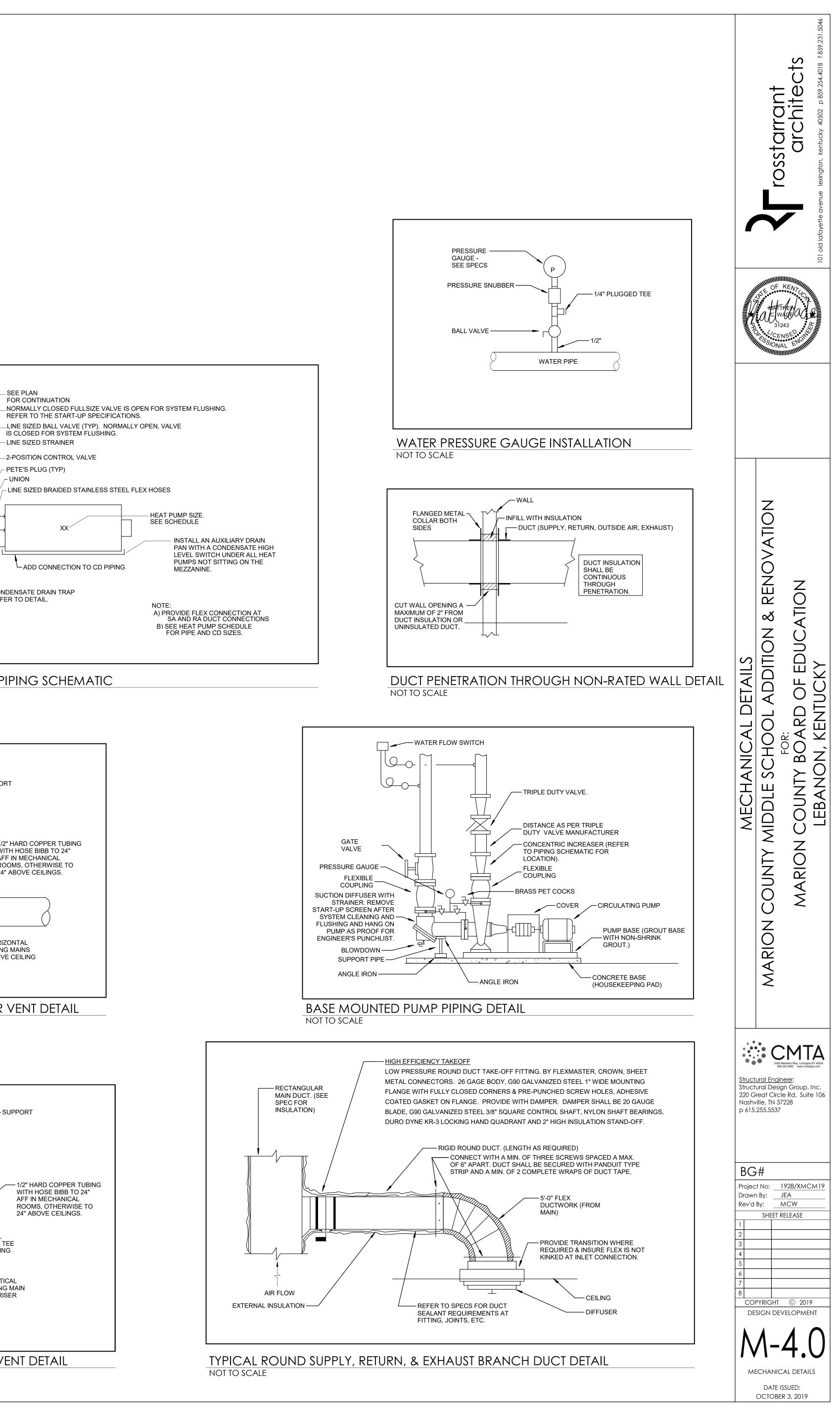




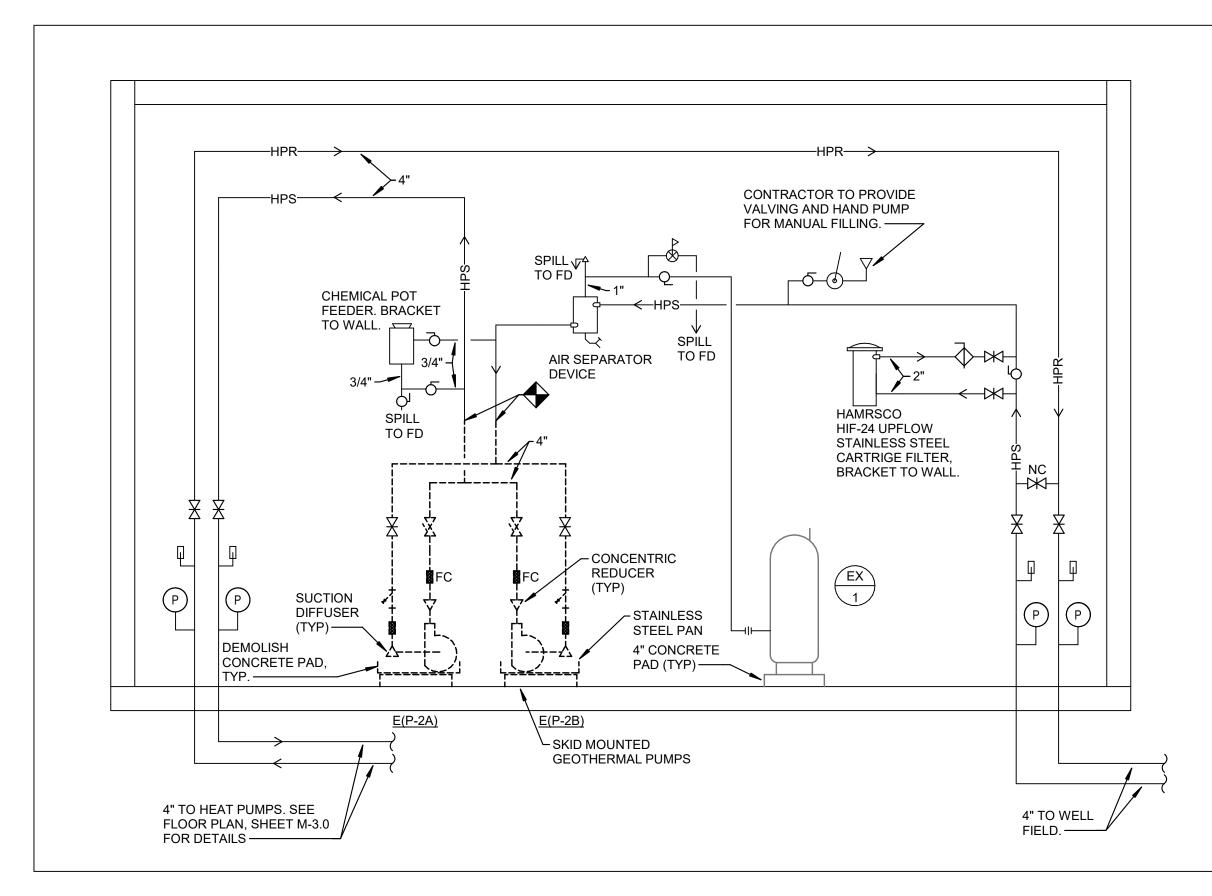




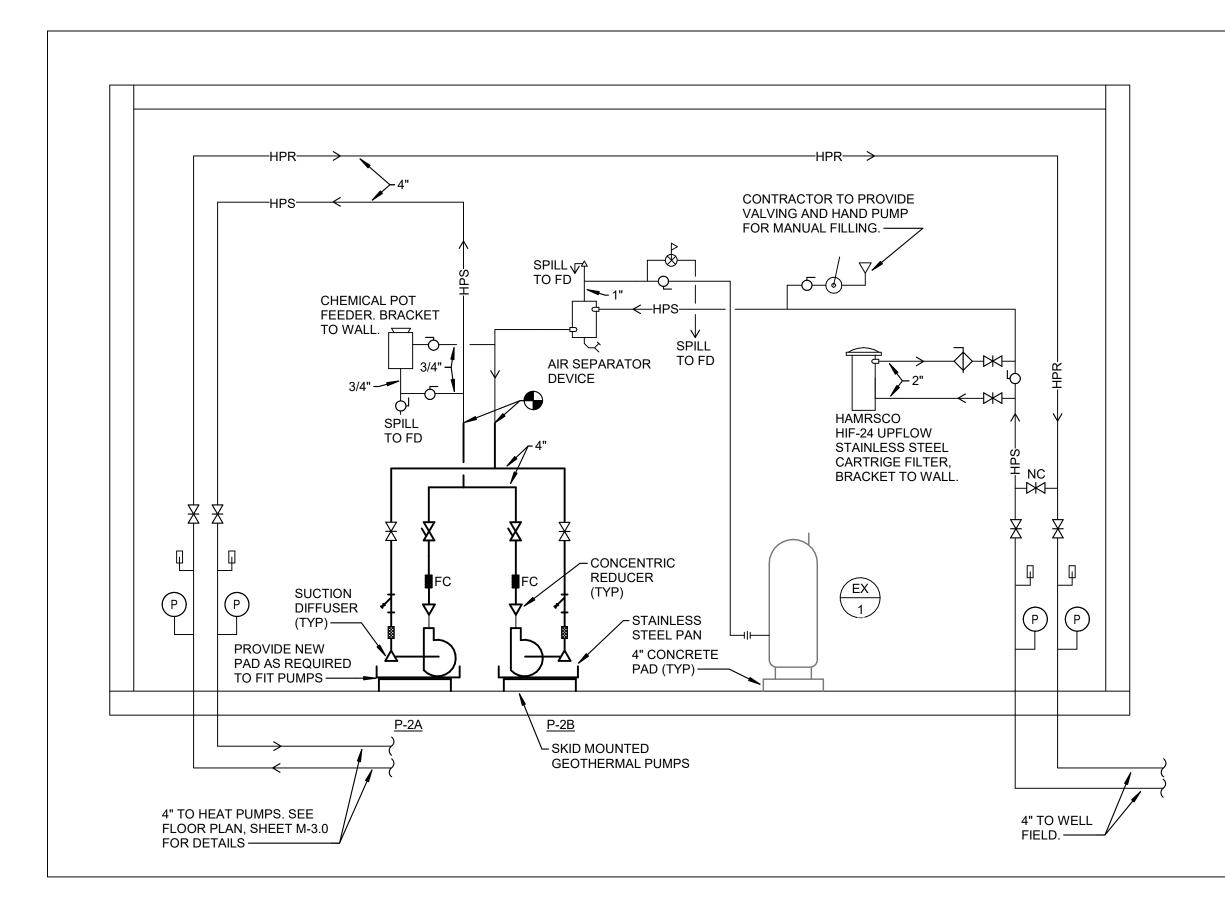




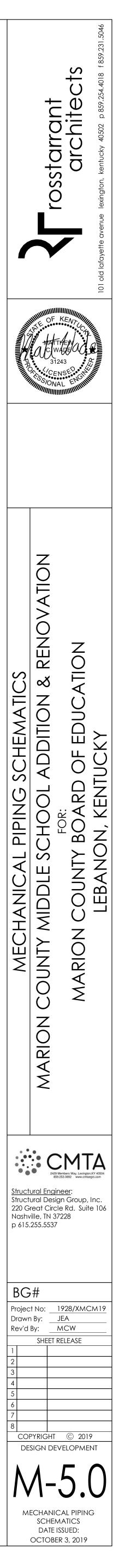
| REVISIONS | | | | | |
|-----------|------|-------------|--|--|--|
| # | DATE | DESCRIPTION | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



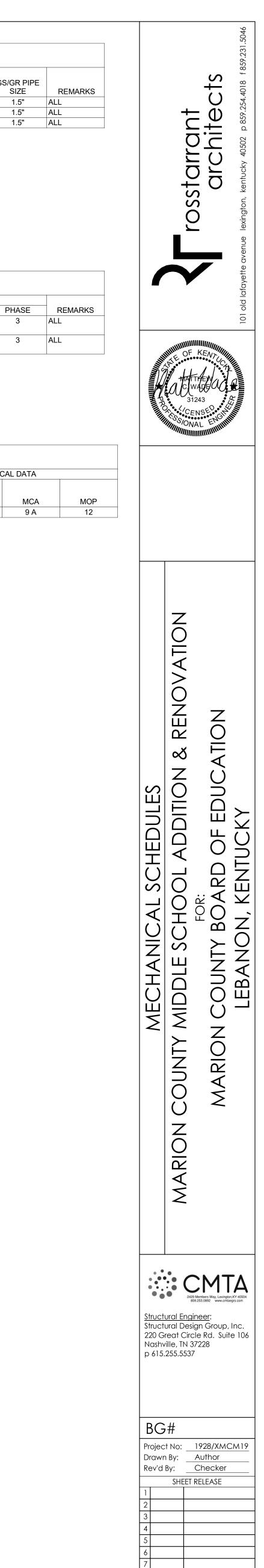
GEOTHERMAL PUMP PIPING SCHEMATIC - DEMOLITION NOT TO SCALE



GEOTHERMAL PUMP PIPING SCHEMATIC - NEW WORK NOT TO SCALE



| | REVISIONS # DATE DESCRIPTION # DATE DESCRIPTION Image: Description Image: Description | |
|---|--|--|
| - | I | GS/GR PIPE SIZE 1.5" 1.5" 1.5" |
| - | REMARKS: C. DIMATEMASTER, DAIKIN, MAMMOTH, AND FLORIDA HEAT PUMP ARE ACCEPTABLE. PROVIDE WIT INTEGRAL DISCONNECT. 3. ALL HEAT PUMPS TO BE EXTENDED RANGE GROUND SOURCE. 4. COORDINATE "HAND" OF UNIT WITH FLOOR PLANS. REFER TO DRAWINGS. 5. PROVIDE HEAT PUMP WITH STAILLESS STELL DRAIN PARE OVERFLOW SWITCH. 6. PROVIDE FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS. | |
| - | 7. HEAT PUMP MANUFACTURER TO PROIDE 2-WAY CONTROL VALVE SHIPPED LOOSE FOR INTALLATION BY MECHANICAL CONTRACTOR PER MANUFACTURER'S REQUIREMENTS. 8. AFTER FINAL FILTER CHANGE REQUIRED AT SUBSTATIAL COMPLETION, PROVIDE NEW COMPLETE SET OF REPLACEMENT FILTERS FOR ALL HEAT PUMPS TO OWNER FOR ATTIC STOCK. 9. PROVIDE PHASE AND BROWNOUT PROTECTION FOR ALL HEAT PUMPS WITH 3 PHASE POWER. 10 PROVIDE WITH INTEGRAL FACTORY MOUNTED CONTROLLER WITH BACNET/MSTC INTERFACE. COORDINATE WITH SUCCESSFUL CONTROLS CONTRACTOR. | |
| - | Schedule - | |
| - | Image: Section of the sectin of the section of the section | PHASE 3 3 |
| | GRILLE TO BE FIELD VERIFIED BY CONTRACTOR TO FIT. REFER TO DRAWINGS. PRICE AND METALAIRE ARE ACCEPTABLE. PUMPS SHALL BE NON-OVERLOADING. PROVIDE PREMIUM EFFOLES. REFER TO VERT SCHOLD WITH SHAFT GROUND KIT. REFER TO VER SCHOLD WILD ARE ACCEPTABLE. ARMSTRONG AND WILO ARE ACCEPTABLE. | |
| | SCHEDULE - ENERGY RECOVERY VENTILATOR PHYSICAL DATA SUPPLY FAN EXHAUST FAN WINTER OPERATION Electric | CAL DATA |
| | Image: Pressing and p | MCA 9 A |
| | 1. SEMCO, 1. SEMCO, | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



COPYRIGHT © 2019 DESIGN DEVELOPMENT M-6.0

MECHANICAL SCHEDULES

DATE ISSUED: OCTOBER 3, 2019

| | REVIS | sions |
|---|-------|-------------|
| # | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

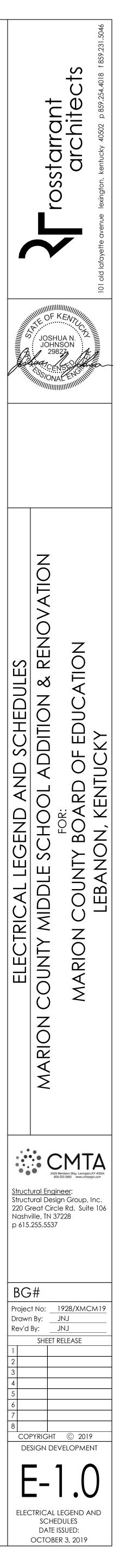
| | | LUMINAIRE | SCHEDULE | | | | | | |
|------|--|--------------------------|-------------------------------------|----------|-------------|------|--------------------|---------|---------------------|
| TYPE | DESCRIPTION | BASIS OF DESIGN | EQUIVALENT MANUFACTURERS | MOUNTING | CCT / CRI | _ | MAXIMUM WATTAGE | VOLTAGE | REMARK |
| A2 | 2X4 RECESSED VOLUMETRIC LED FIXTURE, CURVED LINEAR PRISMS | LITHONIA 2BLT4 SERIES | METALUX, WILLIAMS EQUIVALENT | CEILING | 4000K 80CRI | 4060 | 32 | 120 | 0-10V DIMMING TO 1% |
| A2E | 2X4 RECESSED VOLUMETRIC LED FIXTURE, CURVED LINEAR PRISMS, 1400 LUMEN BATTERY | LITHONIA 2BLT4 SERIES | METALUX, WILLIAMS EQUIVALENT | CEILING | 4000K 80CRI | 4060 | 32 | 120 | 0-10V DIMMING TO 1% |
| A4 | 2X4 RECESSED VOLUMETRIC LED FIXTURE, CURVED LINEAR PRISMS | LITHONIA 2BLT4 SERIES | METALUX, WILLIAMS EQUIVALENT | CEILING | 4000K 80CRI | 6110 | 47 | 120 | 0-10V DIMMING TO 1% |
| A4E | 2X4 RECESSED VOLUMETRIC LED FIXTURE, CURVED LINEAR PRISMS, 1400 LUMEN BATTERY | LITHONIA 2BLT4 SERIES | METALUX, WILLIAMS EQUIVALENT | CEILING | 4000K 80CRI | 6110 | 47 | 120 | 0-10V DIMMING TO 1% |
| BE | 4' WALL BRACKET, 1400 LUMEN BATTERY PACK | LITHONIA WL4 SERIES | METALUX, WILLIAMS EQUIVALENT | 8'-0" | 4000K 80CRI | 4325 | 40 | 120 | |
| C2 | 4' INDUSTRIAL STRIP LIGHT, CHAIN HUNG, NO REFLECTORS, FROSTED DIFFUSE LENS | LITHONIA ZL1N SERIES | METALUX, WILLIAMS EQUIVALENT | 9'-0" | 4000K 80CRI | 4550 | 35 | 120 | |
| OA1 | ARCHITECTURAL WALL MOUNTED FIXTURE, TYPE 2 DISTRIBUTIO, INTEGRAL PHOTOCELL | LITHONIA WSQ SERIES | MCGRAW-EDISON, LUMARK EQUIVALENT | 8'-6" | 5000K 80CRI | 4800 | 40 | 120 | |
| OA1E | ARCHITECTURAL WALL MOUNTED FIXTURE, TYPE 2 DISTRIBUTION, INTEGRAL PHOTOCELL, COLD WEATHER BATTERY PACK | LITHONIA WSQ SERIES | MCGRAW-EDISON, LUMARK EQUIVALENT | 8'-6" | 5000K 80CRI | 4800 | 40 | 120 | |
| Х | THERMOPLASTIC EXIT SIGN, STENCIL FACE, RED LETTERS, BATTERY PACK; MOUNTING, FACES, AND CHEVRONS AS INDICATED ON DRAWINGS; CIRCUIT TO NEAREST UNSWITCHED LIGHTING CIRCUIT WITH 2#12, #12 GROUND IN 3/4" CONDUIT | LITHONIA LQM SERIES | METALUX, WILLIAMS EQUIVALENT | 8'-0" | RED | | 2 | 120 | |

| | ng (To OF BOX) | |
|---|-------------------------------------|-------------------|
| | | <u> </u> |
| | MOUNTING HEIGHT (TC CENTER OF | DRAWING SYMBOL |
| DESCRIPTION | HEI CEN | DR |
| LIGHTING CONTROL SWITCHES | 1 | |
| LIGHT SWITCH: LOW VOLTAGE | 46" | \$ |
| | | \$os |
| OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT PHOTO-CELL AS NOTED | CLG AS NOTED | 05 PC |
| POWER OUTLETS | ASNOTED | |
| SIMPLEX RECEPTACLE | 1'-6" | \ominus |
| DUPLEX RECEPTACLE-SAFETY TYPE, TAMPER-RESISTANT | 1'-6" | ⊕_ s |
| DUPLEX RECEPTACLE SLASH THROUGH ANY DEVICE INDICATES MOUNTING | 1'-6" | |
| ABOVE COUNTERTOP 4" ABOVE BACKSPLASH | | <i>⊈</i> ,∉ |
| FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI) | 1'-6" |] ⊖– |
| DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION | | € |
| FILLED OUTER BARS INDICATES INTEGRAL INTEGRAL USB OUTLETS IN ADDITION TO POWER RECEPTACLES | 1'-6" | |
| GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V) | 46" | C/S |
| DUPLEX RECEPTACLE, CEILING MOUNTED | CLG 1'-6" | |
| QUADRUPLEX RECEPTACLE JUNCTION BOX, CEILING OR WALL | | _ ₩ ,Ю |
| VOLTAGE/1PH RECEPTACLE, AS NOTED | AS NOTED |) (|
| VOLTAGE/3PH RECEPTACLE, AS NOTED | 1'-6" |] ∉= |
| "DOG-HOUSE" TYPE TWIN DUPLEX RECEPTACLE WITH ONE DUPLEX RECEPTACLE ON BOTH SIDES | ON CNTR. | • DP |
| SS INDICATES SURGE SUPPRESION TYPE OUTLET(S) | | ⊖= ss |
| GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST | 2'-2" | |
| METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS | | WP |
| FIRE ALARM | | |
| MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU) | 6'-6'' TO TOP | FACP |
| PULL STATION : DOUBLE ACTION | 46" TO | F |
| KEYED, LOCKED PULL STATION : DOUBLE ACTION. | LEVER 46" TO | Γ Γ |
| STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF. | LEVER | |
| AUDIO/VISUAL NOTIFICATION APPLIANCE | WALL, CLG WALL, CLG | |
| AUDIO-ONLY NOTIFICATION APPLIANCE | WALL, CLG | |
| BELL / LIGHT | 80" | |
| BELL ONLY | 80" | В |
| PHOTO-ELECTRIC SMOKE DETECTOR | CLG | SD |
| PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT | CLG | SD P |
| ROOM MONITORING (SEE RISER) PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) | | BE BR |
| AND RECEIVER (BR) | CLG | |
| HEAT DETECTOR CARBON MONOXIDE DUCT DETECTOR | ABV CLG | |
| CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER | | |
| BASE | CLG | СМ |
| CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE | WALL | |
| DOOR HOLDER : WALL TYPE | WALL | DH |
| DOOR HOLDER : CLOSURE TYPE | ABV DOOR | DH C |
| DUCT SMOKE DETECTOR | ABV CLG | DD |
| CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE | | FS |
| CONNECTION TO SPRINKLER TAMPER SWITCH | | Т |
| WITH ADDRESSABLE MODULE PRESSURE SWITCH | | PS |
| REMOTE L.C.D. FIRE ALARM ANNUNCIATOR | 54" | FAA |
| REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE | 54" | FAAM |
| POST INDICATOR VALVE | | PIV |
| POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES | 46" | NAC |
| TRANSPONDER CABINET | 46" | TRAN |
| GRAPHICS DISPLAY TERMINAL | | GDT |
| | WALL | |
| | | |
| ZONE ADDRESSABLE MODULE | | |
| H.V.A.C. SMOKE DAMPER CONNECTION | | SM |
| FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH | 7'-6'' | RI |
| FIREMAN'S PHONE JACK | 4'-6'' | FP |
| FIREMAN'S KNOX BOX CONNECTION | | КВ |
| ADDRESSABLE RELAY MODULE | | |
| | 1 | |
| | | |

| | DESCRIPTION | MOUNTING HEIGHT (TO CENTER OF BOX) | DRAWING SYMBOL | DESCRIPTION |
|------------------|--|--|---------------------------|--|
| Т | LIGHTING | | | ABBREVIATIONS |
| ┝ | REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE | | | UNLESS OTHERWISE NOTED |
| F | SPECIFICATIONS, MOUNTING HEIGHTS, ETC. | | ф. Ф. | OWNER FURNISHED CONTRACTOR IN |
| | SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED) | | $\Phi, O,$ | OWNER FURNISHED OWNER INSTAL |
| | POLE MOUNTED AREA LIGHT | | Ţ,Ć | CONTRACTOR FURNISHED CONTRAC |
| ┢ | EMERGENCY BATTERY WALL-PACK | | 28 1 | INDICATES EMERGENCY POWER |
| L | WALL MOUNT FIXTURE | | Ф,Ю | OVERHEAD PAGING |
| L | FLOODLIGHT | | \triangleleft | PAGING SPEAKER: CEILING |
| L | SURGICAL/EXAM LIGHT | | ⊙ sl, xl | PAGING SPEAKER W/ VOLUME CONTI |
| ╞ | EXIT LIGHT (CEILING, END, WALL MOUNT) | | ₽₽₽ | PAGING SPEAKER: WALL |
| ╞ | STRIP FIXTURE CROSS-HATCHING INDICATES LIGHT IS POWERED | | | |
| F | FROM THE EMERGENCY-CRITICAL BRANCH | | | RECESSED WALL MOUNTED PAGING 5A606 SPEAKER. ATLAS 417-8WD |
| | PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH | | | WALL MOUNTED PAGING HORN |
| | MISCELLANEOUS | 1 | 000100 | VANDAL PROOF / WEATHERPROOF W PAGING SPEAKER. QUAM VP1 |
| | CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF | | GROUND | EXTERIOR VANDAL PROOF / WEATHE |
| | CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR. | | -PHASE | MOUNTED PAGING SPEAKER, SHALL SELECTED BY ARCHITECT/OWNER. Q |
| ┢ | DISCONNECT SWITCH | 5'-0" | | CALL INITIATION STATION |
| | MAGNETIC STARTER | 5'-0" | | WALL VOLUME CONTROL |
| ╞ | MAGNETIC COMBINATION STARTER VARIABLE FREQUENCY DRIVE | 5'-0" | | LCD WALL DISPLAY |
| ┢ | ENCLOSED FLUSH MTD. CIRCUIT BREAKER | 5'-0" 5'-0" | | |
| F | BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD | | ф | PAGING MICROPHONE |
| ┢ | CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB | | æ | PAGING SYSTEM AMPLIFIER/TUNER (|
| ┢ | UP CONDUIT WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED) | AS SHOWN | | CLOCKS |
| ┝ | TRENCH DUCT (SIZE AS NOTED) | | | ANALOG CLOCK |
| ┝ | PUSHBUTTON STATION | AS SHOWN 46" | | DATA / VOICE |
| L | FLEXIBLE CONDUIT | | \sim | DATA OUTLET : NUMBER BESIDE OUT NUMBER OF DATA JACKS |
| | PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY | 6'-6" TO TOP | | VOICE OUTLET : NUMBER BESIDE OU NUMBER OF VOICE JACKS |
| | TRANSFORMER | AS NOTED | \square | COMBINATION OUTLET : NUMBER BE INDICATES NUMBER OF DATA/VOICE |
| L | EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE | | EQUIP-1 | SLASH THROUGH ANY DEVICE INDIC ABOVE COUNTERTOP 4" ABOVE BACK |
| ╞ | TAGGED NOTE REVISION TAG | | $ \bigcirc \\ \triangle $ | |
| ┢ | MECHANICAL EQUIPMENT DESIGNATOR (SEE | | | WIRELESS ACCESS POINT ROUGH-IN JUNCTION BOX WITH SINGLE-GANG |
| ╞ | MECH. SCHEDULES) | | | BLANK FACEPLATE ABOVE CEILING, N ACCESSIBLE HEIGHT NO MORE THAN |
| | WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED | | WG | CLASSROOM A/V EQUIPME |
| | WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR | | WP | CEILING MOUNTED PROJECTOR |
| $\left \right $ | OUTDOORS. EXPLOSION PROOF - PROVIDE WIRING METHODS, | | XP | A/V SYSTEM CABLING TERMINATION |
| 1 | ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION. | | | CLASSROOM PROJECTOR SPEAKER |
| | | | Φ | TEACHER STATION: REFER TO INSTR OUTLET INSTALLATION DETAIL |
| | PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION | | | |
| | | VERIFY WITH | Å | |
| | SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER. | VERIFY WITH ARCHITECT | ø | TOUCHSCREEN LOCATION: REFER TO WALL OUTLET INSTALLATION DETAIL |

| ION | MOUNTING HEIGHT (TO CENTER OF BOX) | DRAWING SYMBOL |
|--|--|--------------------|
| ΓΙΟΝS | 1 | |
| RWISE NOTED | | |
| SHED CONTRACTOR INSTALLED | | OFCI |
| ISHED OWNER INSTALLED | | OFOI |
| FURNISHED CONTRACTOR INSTALLED | | CFCI |
| FURNISHED OWNER INSTALLED | | CFOI |
| IERGENCY POWER | | E, EM |
| PAGING | | |
| KER: CEILING | CLG | ⟨s⟩ |
| KER W/ VOLUME CONTROL | CLG |] 🔊 |
| KER: WALL | 8'-0" | Ks |
| ALL MOUNTED PAGING SPEAKER DUKANE R. ATLAS 417-8WD | 8'-0" | ⊢ (S) _R |
| ED PAGING HORN | 9'-0" | |
| DF / WEATHERPROOF WALL MOUNTED KER. QUAM VP1 | SEE FLOOR PLANS | Ks |
| NDAL PROOF / WEATHERPROOF WALL GING SPEAKER, SHALL BE PAINTED COLOR ARCHITECT/OWNER. QUAM VP6 | SEE FLOOR PLANS | KSS EXT. |
| ION STATION | 46" | I K⊘ |
| CONTROL | 46" |] ⊬ŷ |
| SPLAY | | |
| OPHONE | 1'-6" | |
| EM AMPLIFIER/TUNER CABINET | 46" | PA |
| к | 84" | l P |
| κ. | | ¥ |
| ICE | | |
| : NUMBER BESIDE OUTLET INDICATES ATA JACKS | 1'-6" | ₩D ▼ |
| : NUMBER BESIDE OUTLET INDICATES DICE JACKS | 1'-6" | - # ∨ ▼ |
| I OUTLET : NUMBER BESIDE OUTLET IMBER OF DATA/VOICE JACKS | 1'-6" | ₩D/#V |
| GH ANY DEVICE INDICATES MOUNTING 'ERTOP 4" ABOVE BACKSPLASH | | ₩D, #V, #D/# |
| CESS POINT ROUGH-IN. PROVIDE A 2-GANG X WITH SINGLE-GANG EXTENSION RING WITH ATE ABOVE CEILING, MOUNTED AT AN EIGHT NO MORE THAN 24" ABOVE CEILING. | | WAP |
| M A/V EQUIPMENT | 1 |] |
| NTED PROJECTOR | | ↔ |
| ABLING TERMINATIONS / WALLPLATE | | H∰ AV |
| ROJECTOR SPEAKER | | HSS |
| TION: REFER TO INSTRUCTIONAL WALL | | Т |
| N LOCATION: REFER TO INSTURCTIONAL INSTALLATION DETAIL | | Р |
| | | _ |

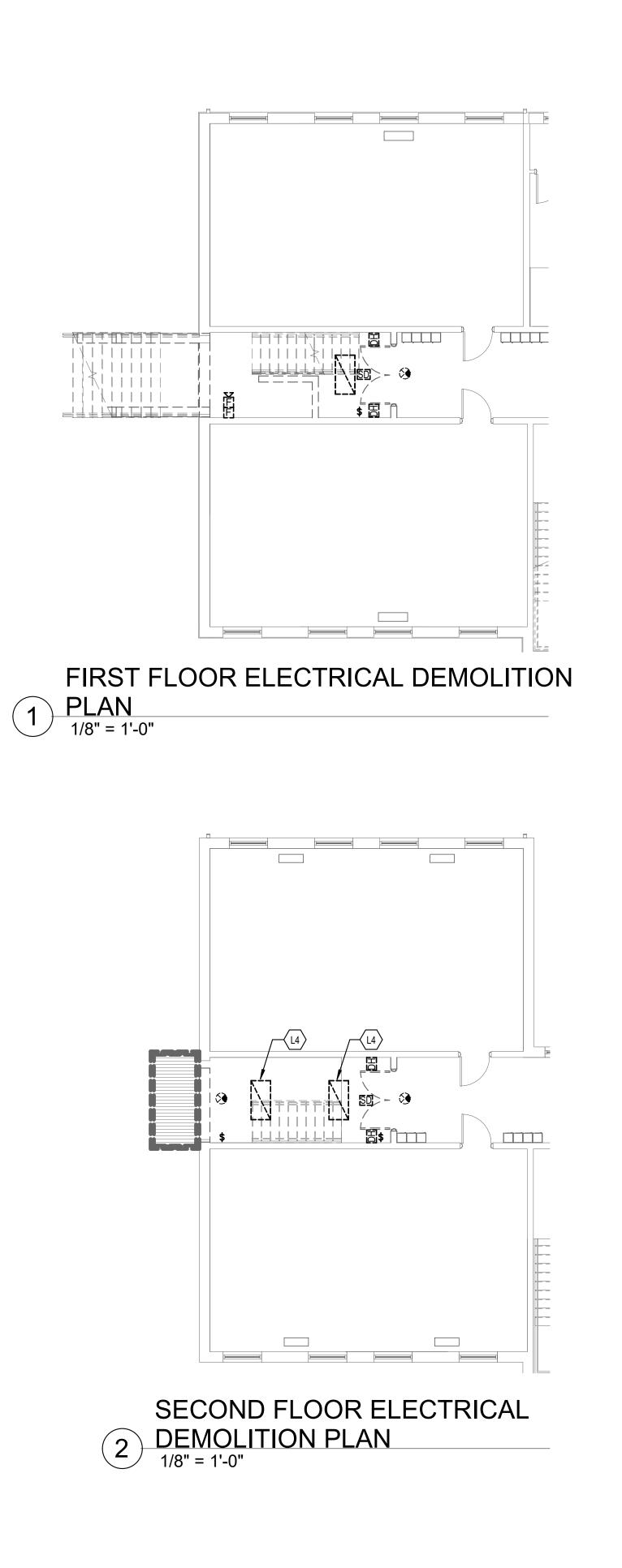
| OF DESIGN INIA 2BLT4 ERIES | EQUIVALEN METALUX, W | | | | | MOUN | | CCT / 0 4000K 80 | CRI | MINIMUM LUMENS 4060 | MAXIMUM WATTAGE 32 | VOL | _TA 120 | | 0-10V | / DIM | MING 1 | REMARKS TO 1% |
|--|---|-------------------|--------|--------|---|---|---|--|---|---|---|--|---|---|---------|-------------------|----------------------------------|--|
| DNIA 2BLT4 ERIES | METALUX, W | 'ILLIAM | S EQ | UIVALE | NT | CEIL | ING | 4000K 80 | 0CRI | 4060 | 32 | | 120 | | 0-10\ | / DIMN | MING 1 | TO 1% |
| ERIES NIA 2BLT4 ERIES | METALUX, W | /ILLIAM | S EQ | UIVALE | NT | CEIL | ING | 4000K 80 | 0CRI | 6110 | 47 | | 120 | | 0-10V | / DIMN | MING 1 | TO 1% |
| ERIES INIA 2BLT4 ERIES | METALUX, W | 'ILLIAM | S EQ | UIVALE | NT | CEIL | ING | 4000K 80 | 0CRI | 6110 | 47 | | 120 | | 0-10V | / DIMN | MING 1 | TO 1% |
| DNIA WL4 ERIES | METALUX, W | /ILLIAM | S EQ | UIVALE | NT | 8'- |)" | 4000K 80 | 0CRI | 4325 | 40 | | 120 | | | | | |
| INIA ZL1N ERIES | METALUX, W | /ILLIAM | S EQ | UIVALE | NT | 9'- |)" | 4000K 80 | 0CRI | 4550 | 35 | - | 120 | | | | | |
| NIA WSQ ERIES | MCGRAW | /-EDISC | | JMARK | | 8'- | 6" | 5000K 80 | 0CRI | 4800 | 40 | | 120 | | | | | |
| NIA WSQ | MCGRAW | -EDISC | DN, LU | JMARK | | 8'- | 6" | 5000K 80 | 0CRI | 4800 | 40 | - | 120 | | | | | |
| ERIES ONIA LQM ERIES | METALUX, W | QUIVAL /ILLIAM | | UIVALE | NT | 8'- |)" | RED |) | | 2 | - | 120 | | | | | |
| ANELB | OARD A | ND V | VIR | ING | S | CHE | DUL | .E | | | | | | A\// | AILAB | LE FAU | | |
| PAN | EL: A | | | | | | | MAIN | | | | | | | EL INT | | TING R | RATING: |
| PAN VOLTA | EL: A GE: 208Y/120V,3 ES: 225 A | P,4W | | | | | | | SPE | | E | | | | el inti | ERRUP | TING R LOC | |
| PAN Volta Amper Circuit de | GE: 208Y/120V,3 ES: 225 A SCRIPTION | | GND | C (| DCP | P CK | | | SPI UNTING | D: | E C | СКТ | Ρ | PANE OCP | | ERRUP | PTING R Loc Supply Wire | RATING: Cation: Storage 227 (From: Circuit Description |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 | | GND | | 20 | 1 1 | | МО | SPE UNTINC | D: G: SURFAC B | | 2 | 1 | PANE 0CP 20 | | ERRUP | TING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 2 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 | | GND | | 20 20 | 1 1 1 3 | - | MO | SPI UNTING | D: G: SURFAC | C | 2 4 | 1 1 | PANE 0CP 20 20 | | ERRUP | TING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 2 C - Classroom 2 C - Classroom 2 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 225 | | GND | | 20 20 20 | 1 1 1 3 1 5 | 0.7 | MO A 0.4 | SPE UNTINC | D: G: SURFAC B | | 2 4 6 | 1 | PANE 0CP 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Storage 227 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 2 C - Classroom 2 C - Classroom 2 C - Classroom 2 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 225 226 | | GND | | 20 20 | 1 1 1 3 | - | MO | SPE UNTINC | D: G: SURFAC B | C | 2 4 | 1 1 | PANE 0CP 20 20 | | ERRUP | PTING R Loc Supply Wire | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 2 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 225 226 226 226 226 | | GND | | 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 | 0.7 | MO A 0.4 | SPE UNTINC 1.0 | D: G: SURFAC B 0.7 | C | 2 4 6 8 10 12 | 1 1 | PANE 0CP 20 20 20 20 20 20 20 20 | | ERRUP | PTING R Loc UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Storage 227 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 225 226 226 226 36 | | GND | | 20 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 | 0.7 | MO A 0.4 | SPI UNTINC 1.0 0.4 | D: G: SURFAC B 0.7 0.7 0.7 0.7 | C 0.5 0.7 | 2 4 6 8 10 12 14 | 1 1 1 1 1 | PANE 0CP 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Storage 227 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Classroom 1 C - Classroom 1 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 | | GND | | 20 20 20 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 | 0.7 | MO A 0.4 0.7 | SPE UNTINC 1.0 | D: G: SURFAC B 0.7 | C 0.5 0.7 0.5 0.7 0.5 0.7 | 2 4 6 8 10 12 14 16 | 1 1 1 1 1 | PANE 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Classroom 1 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 17 | 0.7 | MO A 0.4 0.7 0.7 0.7 0.7 0.7 | SPI UNTINC 1.0 0.4 | D: G: SURFAC B 0.7 0.7 0.7 0.7 | C 0.5 0.7 | 2 4 6 8 10 12 14 16 18 | 1 1 1 1 1 | PANE 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Storage 227 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Classroom 1 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 | 0.7 | MO A 0.4 0.7 | SPI UNTINC 1.0 0.4 | D: G: SURFAC B 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.5 0.7 0.5 0.7 | 2 4 6 8 10 12 14 16 18 20 | 1 1 1 1 1 | PANE 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 15 1 15 1 15 1 15 1 17 1 19 1 21 1 23 | - 0.7 1.0 0.4 0.7 | MO A 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | SPI UNTINC 1.0 0.4 0.9 | D: G: SURFAC B 0.7 0.7 0.7 0.5 0.5 | C 0.5 0.7 0.5 0.7 0.5 0.7 | 2 4 6 8 10 12 14 16 18 20 22 24 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PANE 0CP 20 20 20 20 20 20 20 2 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Classroom 2 C - Classroom 1 C - Science 1 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 15 1 15 1 15 1 15 1 17 1 19 1 21 1 23 25 25 | 0.7 | MO A 0.4 0.7 0.7 0.7 0.7 0.7 | SPI UNTINC 1.0 0.4 0.9 0.7 | D: G: SURFAC B 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 1.0 | 2 4 6 8 10 12 14 16 18 20 22 24 24 26 | 1 1 1 1 1 1 1 1 1 1 1 | PANE 0CP 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 |
| PAN VOLTA AMPER CIRCUIT DE EC - Classroom 2 EC - Classroom 1 EC - Science 137 EC - Science 137 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 15 1 15 1 15 1 15 1 17 1 19 1 21 1 23 25 3 27 29 | 0.7 | MO | SPI UNTINC 1.0 0.4 0.9 | D: G: SURFAC B 0.7 0.7 0.7 0.5 0.5 | C 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 1.0 | 2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PANE 0CP 20 20 20 20 20 20 20 2 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 1 C - S | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - 0.7 1.0 0.4 0.7 | MO A 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 | D: G: SURFAC B 0.7 4 0.7 4 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 | 1 1 1 1 1 1 1 1 1 1 1 1 2 | PANE 20 20 20 20 20 20 20 2 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 1 C - S | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 15 1 15 1 15 1 15 1 17 1 19 1 21 1 23 25 3 27 29 | 0.7 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 | D: G: SURFAC B 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 22 24 26 28 30 32 34 36 | 1 1 1 1 1 1 1 1 1 1 1 1 2 | PANE 20 20 20 20 20 20 20 2 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 1 C - Sci | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 | D: G: SURFAC 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - Science 137 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 1.0 0.4 0.7 2.5 2.5 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 | D: G: SURFAC B 0.7 4 0.7 4 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - Science 137 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 1.0 0.4 0.7 2.5 2.5 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 | D: G: SURFAC 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - Science 137 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 1.0 0.4 0.4 0.7 2.5 2.5 1.3 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 | D: G: SURFAC 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | | ERRUP | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - SECOND FLOOR |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 HP-36 | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 0.4 0.4 0.7 2.5 2.5 1.3 0.5 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 | D: G: SURFAC 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 22 24 26 28 30 32 34 36 38 40 42 44 46 48 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 | PANE 20 20 20 20 20 20 20 2 | | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - SECOND FLOOR SOLENOID - SCIENCE 137 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | | GND | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 1.0 0.4 0.4 0.7 2.5 2.5 1.3 | MO | SPI UNTINC 1.0 0.4 0.9 0.9 0.7 2.5 2.5 2.5 1.3 0.5 | D: G: SURFAC B 0.7 4 0.7 4 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 | 1 1 | PANE 20 20 20 20 20 20 20 2 | C | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - FIRST FLOOR SOLENOID - SCIENCE 137 |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 0.4 0.4 0.7 2.5 2.5 1.3 0.5 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 | D: G: SURFAC 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 22 24 26 28 30 32 34 36 38 40 42 44 46 48 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 3 | PANE 20 20 20 20 20 20 20 2 | | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - SECOND FLOOR SOLENOID - SCIENCE 137 |
| PAN VOLTAG AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 226 36 36 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.7 0.7 1.0 0.4 0.4 0.7 2.5 1.3 0.5 0.5 0.0 1.3 | MO | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 2.5 1.3 0.5 0.0 | D: G: SURFAC B 0.7 4 0.7 4 | C 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 | 1 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | C | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - SECOND FLOOR SOLENOID - SCIENCE 137 SPARE SPARE |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 17 1 19 1 17 1 19 1 21 1 23 25 3 27 29 3 33 35 35 3 39 41 43 1 45 47 47 1 49 1 51 1 53 D (kVA) ENT (A) | 0.7 0.7 1.0 0.4 0.4 0.7 2.5 2.5 1.3 0.5 0.0 0.0 1.3 | MO 0.4 0.7 0.7 0.7 0.7 0.7 1.0.7 0.7 1.1.5 1.1.5 1.1.4 0.9 1.4 0.9 0.1.4 0.9 | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 0.5 0.0 1.3 | D: G: SURFAC B 0.7 4 0.7 4 | C | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 | 1 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | C | ERRUP S GND | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - FIRST FLOOR SOLENOID - SCIENCE 137 SPARE SPARE SPARE |
| PAN VOLTAG AMPER CIRCUIT DE EC - Classroom 2 EC - Classroom 1 EC - Science 137 EC - Science | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 17 1 19 1 17 1 19 1 21 1 23 25 3 27 29 3 33 35 35 3 39 41 43 1 45 47 47 1 49 1 51 1 53 D (kVA) ENT (A) | 0.7 1.0 0.4 0.4 0.7 2.5 2.5 1.3 0.5 0.0 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 | MO 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 1.0.7 0.7 1.1.1 1.1.5 1.1.4 1.1.4 1.1.4 0.7 1.1.4 0.7 0.0.0 0.0 0.0 0.0 | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 0.5 0.0 1.3 | D: G: SURFAC B 0.7 4 0.7 4 | C | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 | 1 | PANE 20 20 20 20 20 20 20 20 20 20 20 20 20 | C | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - FIRST FLOOR LTNG - SECOND FLOOR SOLENOID - SCIENCE 137 SPARE SPARE SPARE |
| PAN VOLTA AMPER CIRCUIT DE C - Classroom 2 C - Classroom 1 C - Science 137 C - | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 17 1 19 1 17 1 19 1 21 1 23 25 3 27 29 3 33 35 35 3 39 41 43 1 45 47 47 1 49 1 51 1 53 D (kVA) ENT (A) | 0.7 1.0 0.4 0.4 0.7 2.5 2.5 1.3 0.5 0.5 0.0 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.0 0.7 | MO 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 1.0.7 0.7 1.1.5 1.1.5 1.1.4 0.1.4 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 0.5 0.0 1.3 | D: G: SURFAC B 0.7 4 0.7 4 | C | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 | 1 | PANE OCP 20 20 20 20 20 20 20 20 20 20 20 20 20 | C | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - FIRST FLOOR SOLENOID - SCIENCE 137 SPARE SPARE SPARE SPARE SPARE SPARE |
| PAN VOLTA AMPER CIRCUIT DE EC - Classroom 2 EC - Classroom 1 EC - Science 137 EC - Science 137 EC - Science 137 EC - Science 137 HP-36 HP-36 HP-36 A1 PO - SCIENCE 13 PARE PARE PARE PARE PARE PARE PARE | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 17 1 19 1 17 1 19 1 21 1 23 25 3 27 29 3 33 35 35 3 39 41 43 1 45 47 47 1 49 1 51 1 53 D (kVA) ENT (A) | 0.7 0.7 0.4 0.4 0.4 0.7 2.5 2.5 1.3 0.5 0.0 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.7 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | MO 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 1.0.7 0.7 1.1.5 1.1.5 1.1.5 1.1.5 1.1.5 1.1.5 0.9 1.1.5 0.9 0.1.5 0.0.5 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.9 | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 0.5 0.0 1.3 | D: G: SURFAC B 0.7 4 0.7 4 | C | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 | 1 1 | PANE OCP 20 20 20 20 20 20 20 20 20 20 20 20 20 | C | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 137 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - FIRST FLOOR LTNG - SECOND FLOOR SOLENOID - SCIENCE 137 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE |
| PAN VOLTA AMPER | GE: 208Y/120V,3 ES: 225 A SCRIPTION 225 225 226 226 226 36 36 36 0 0 | WIRE | | | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 1 1 3 1 5 1 7 1 9 1 11 1 13 1 15 1 17 1 19 1 17 1 19 1 21 1 23 25 3 27 29 3 33 35 35 3 39 41 43 1 45 47 47 1 49 1 51 1 53 D (kVA) ENT (A) | 0.7 1.0 0.4 0.4 0.7 2.5 2.5 1.3 0.5 0.5 0.0 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.0 0.7 | MO 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 1.0.7 0.7 1.1.1 1.1.4 1.1.4 0.7 1.1.4 0.7 0.9 1.1.4 0.0.0 0.0.5 0.0.5 0.0.5 0.0.5 0.0.0 0.0.0 0.0.0 0.0% 00% | SPI UNTINC 1.0 0.4 0.9 0.7 2.5 2.5 1.3 0.5 0.0 1.3 | D: G: SURFAC B 0.7 4 0.7 4 | C | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PANE OCP 20 20 20 20 20 20 20 20 20 20 20 20 20 | C | | PTING R LOC UPPLY WIRE | RATING: CATION: STORAGE 227 (FROM: CIRCUIT DESCRIPTION REC - Classroom 225 REC - Classroom 225 REC - Classroom 226 REC - Classroom 226 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Classroom 136 REC - Science 137 REC - Science 137 REC - Science 137 HHP-18 HHP-24 HHP-24 HHP-24 LTNG - FIRST FLOOR LTNG - FIRST FLOOR SOLENOID - SCIENCE 137 SPARE SPARE SPARE SPARE SPARE SPARE |

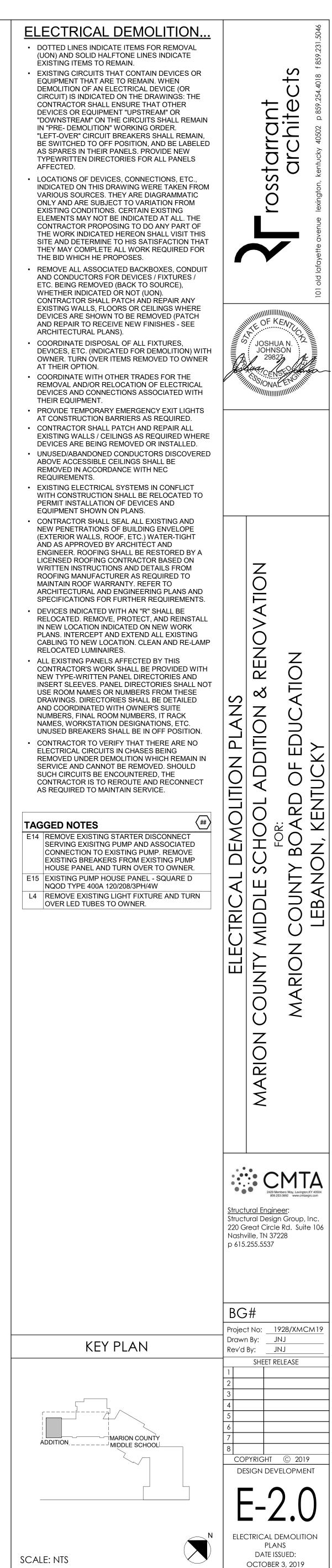


| | REVIS | sions |
|---|-------|-------------|
| # | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

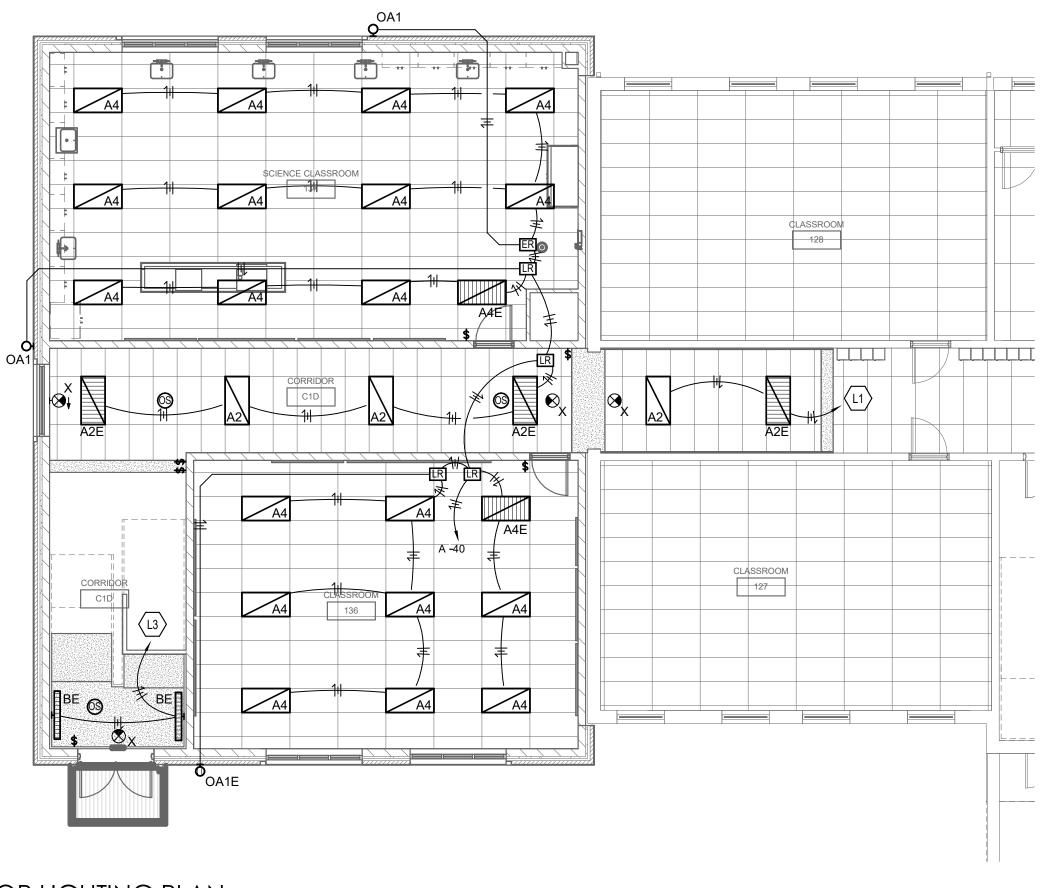


 \bigcirc

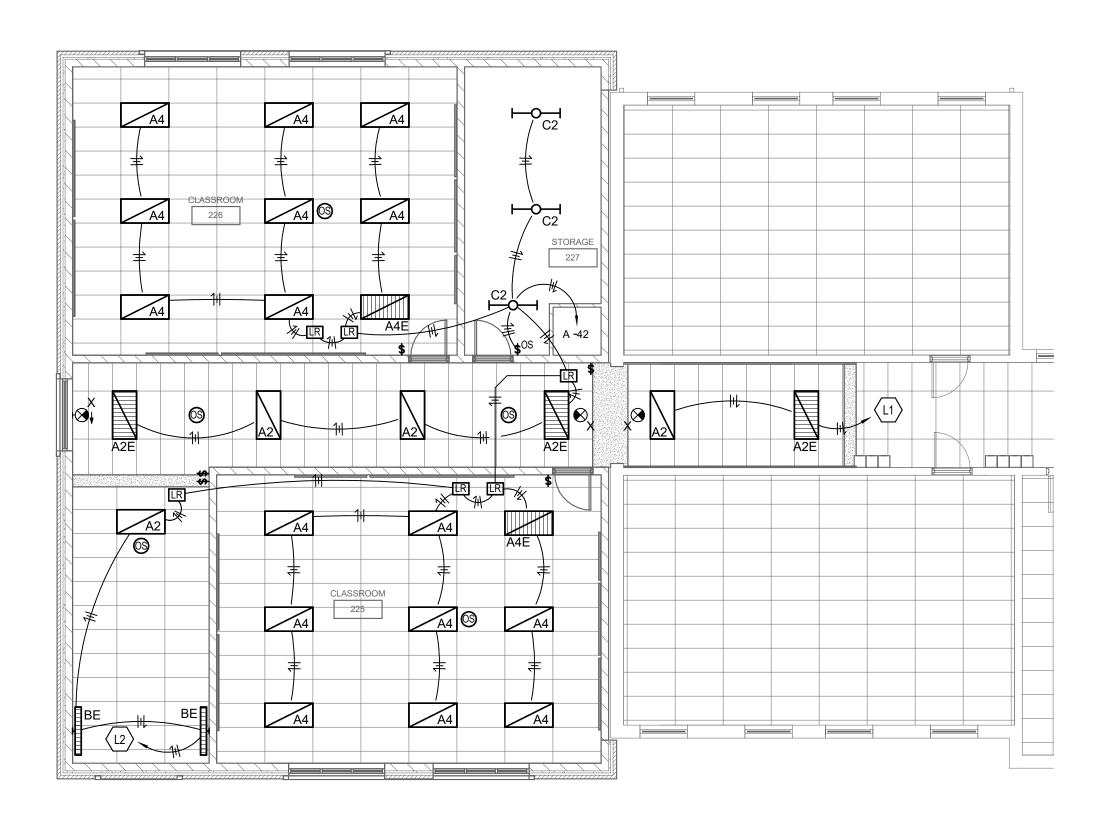




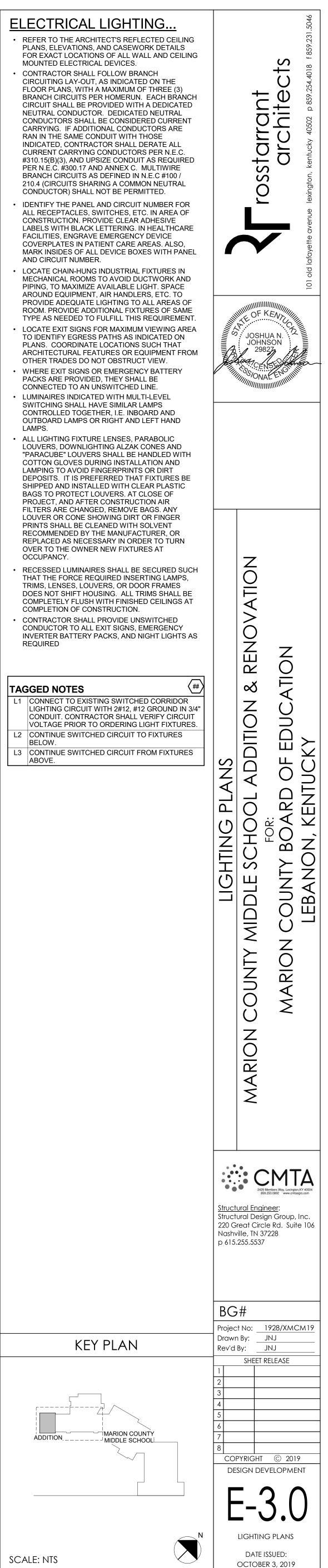
| | REVIS | sions |
|---|-------|-------------|
| # | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

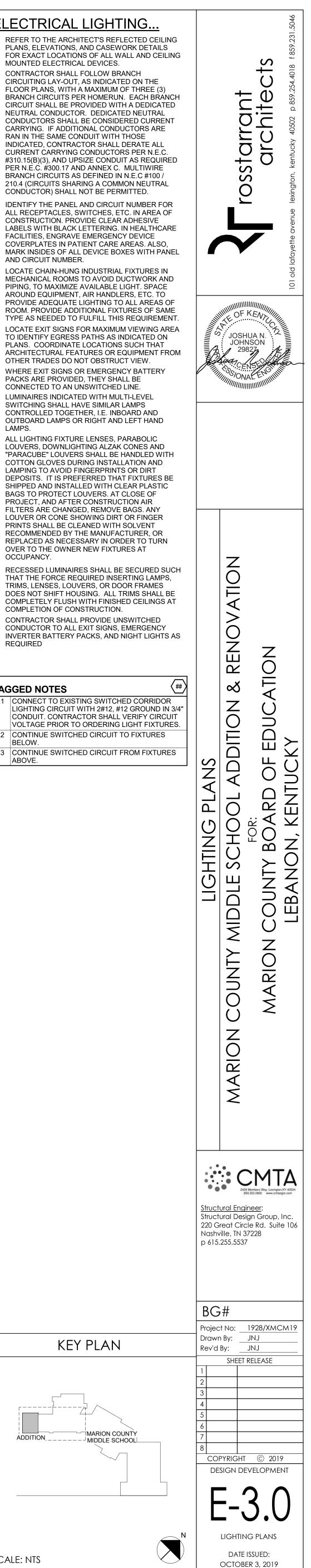


FIRST FLOOR LIGHTING PLAN

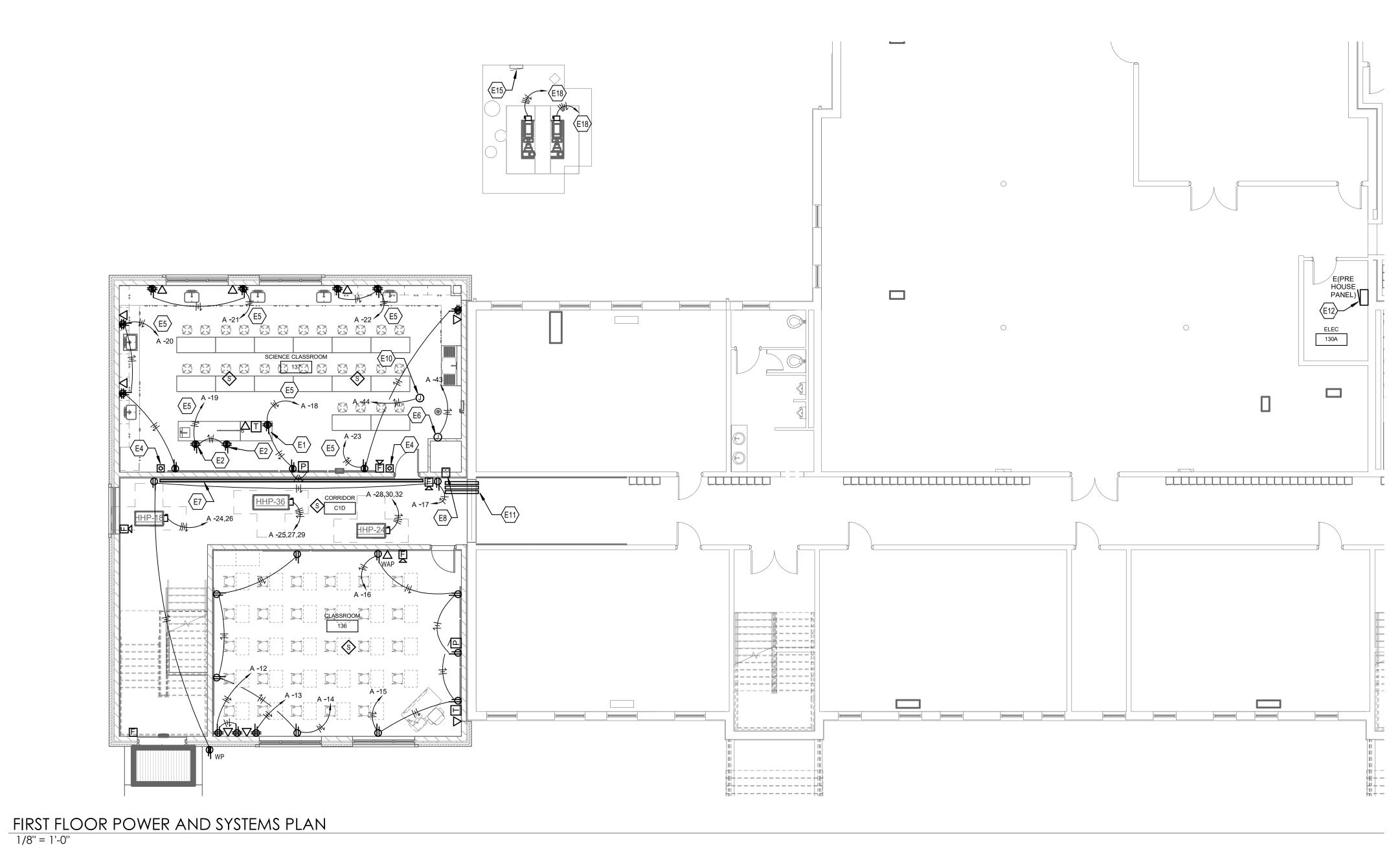


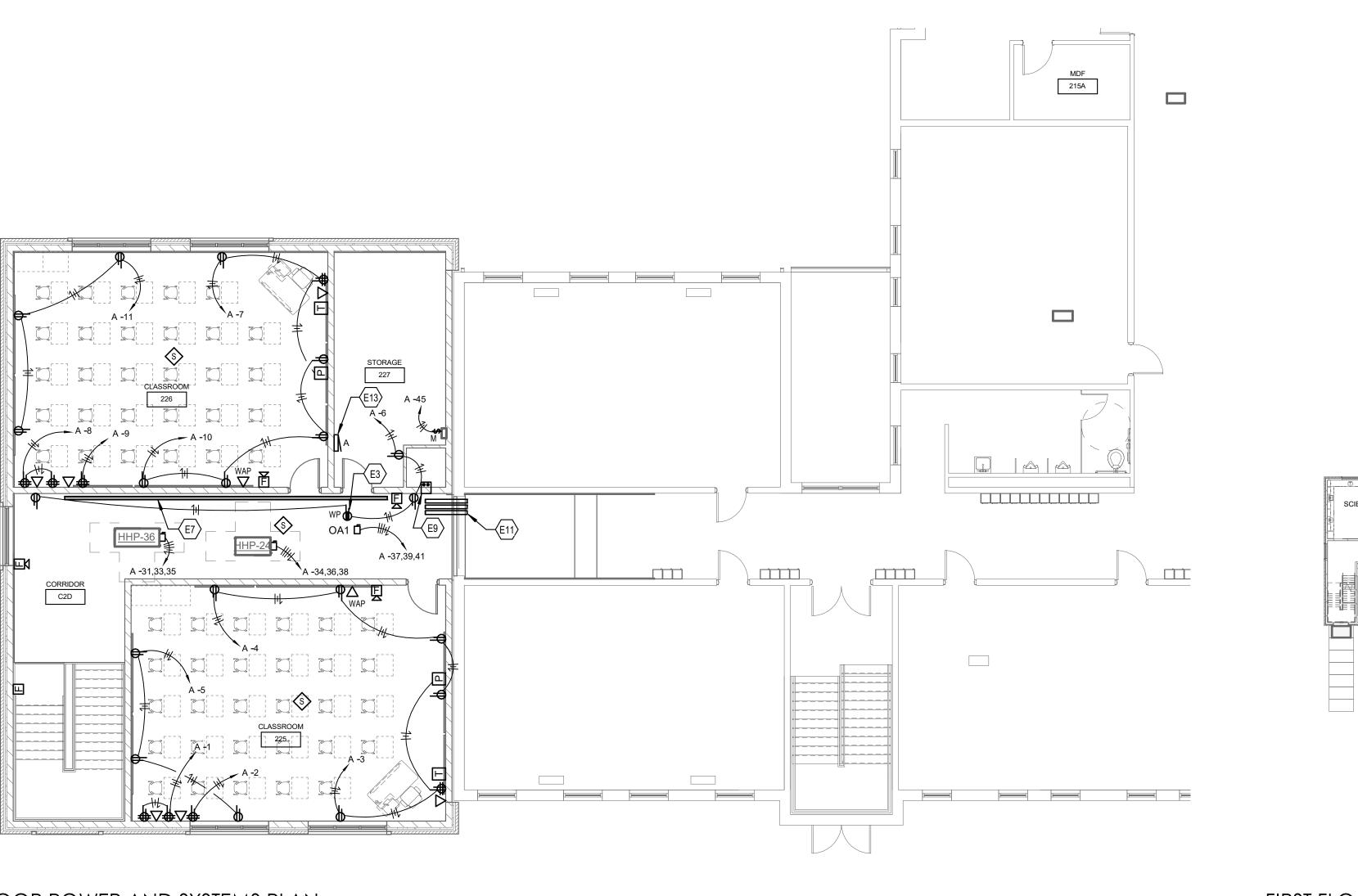
SECOND FLOOR LIGHTING PLAN



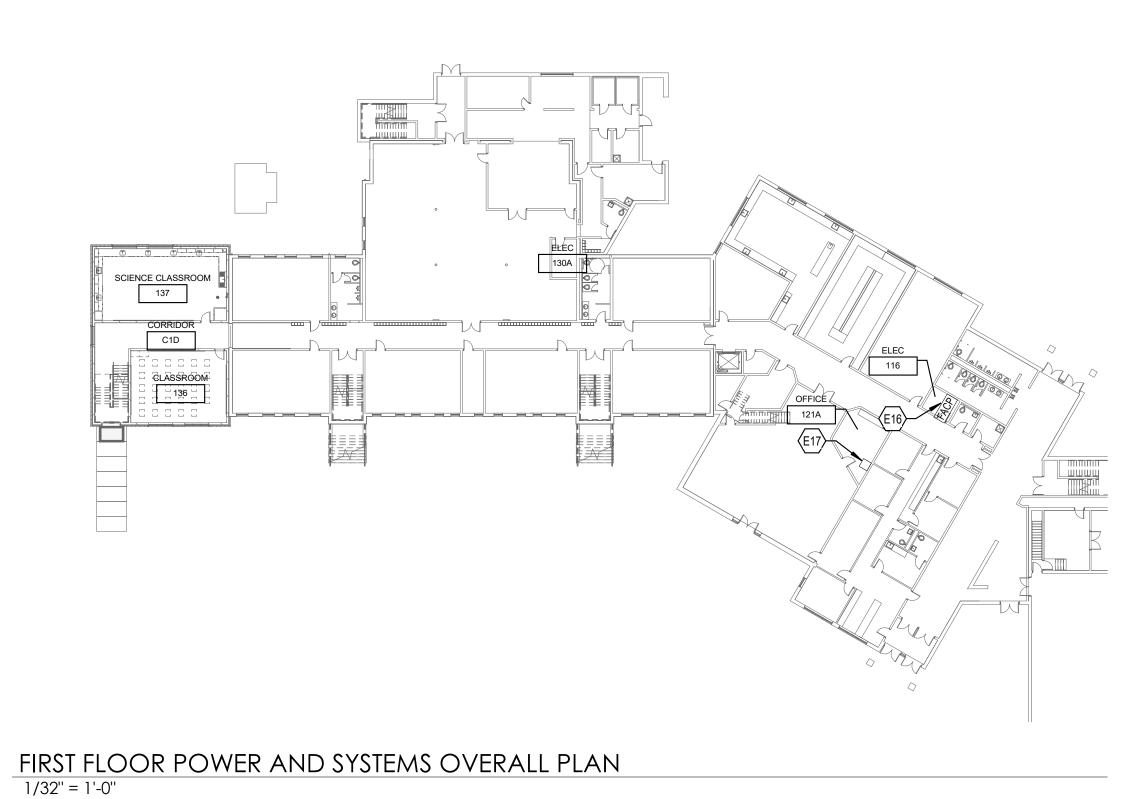


| | REVI | sions |
|---|------|-------------|
| # | DATE | DESCRIPTION |
| | | - |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | _ |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | 1 |

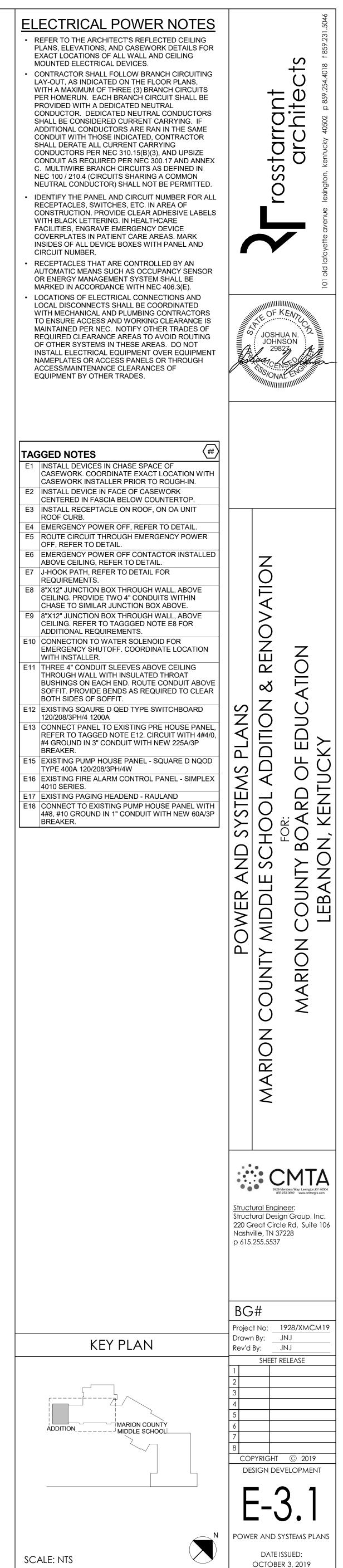


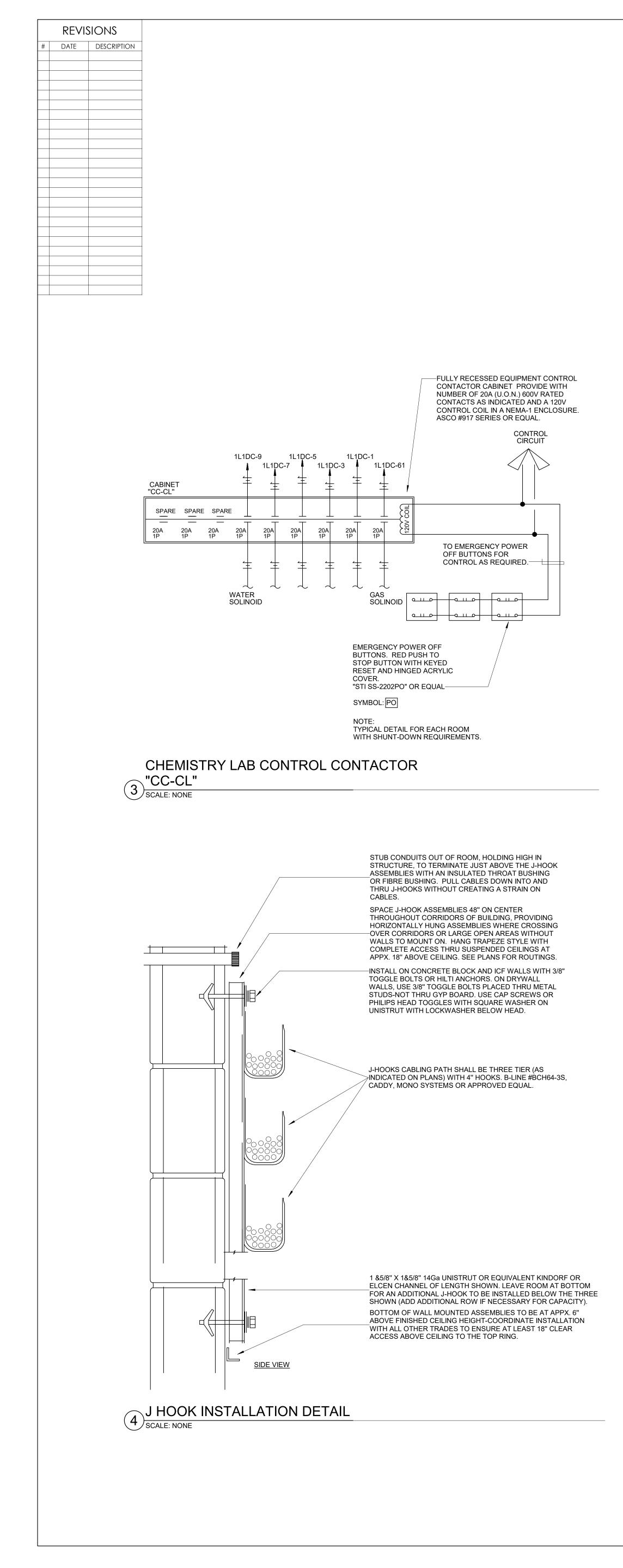


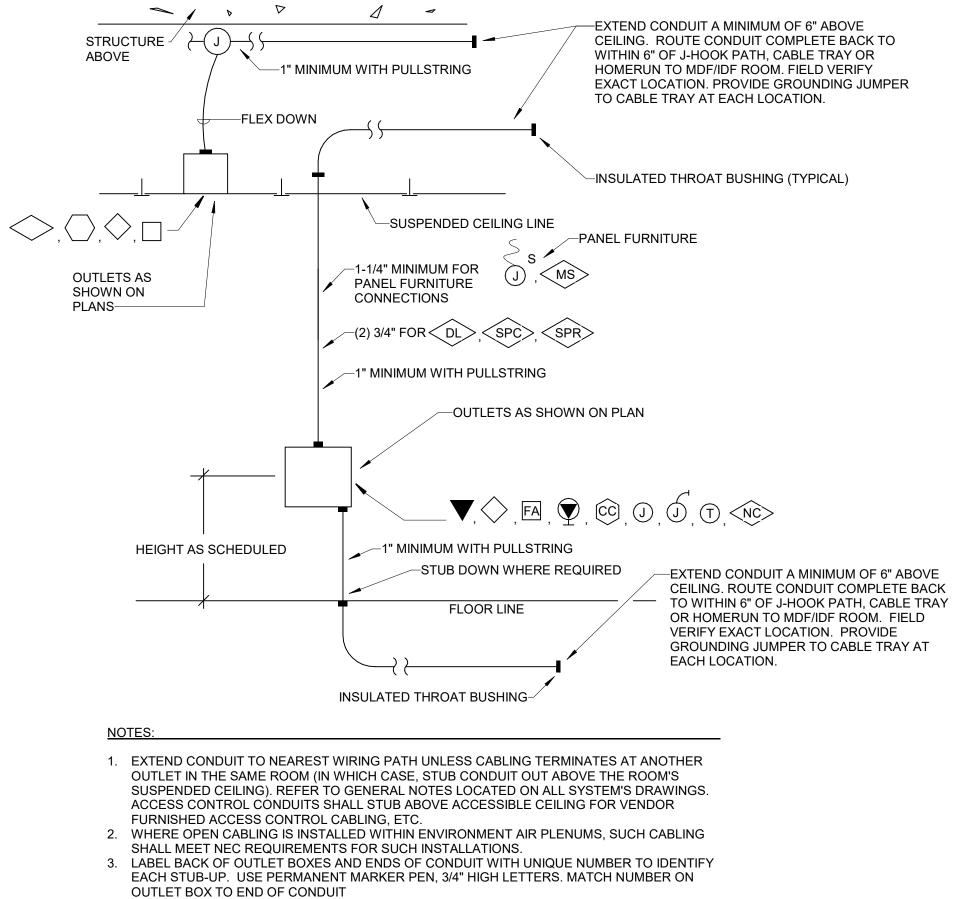
SECOND FLOOR POWER AND SYSTEMS PLAN



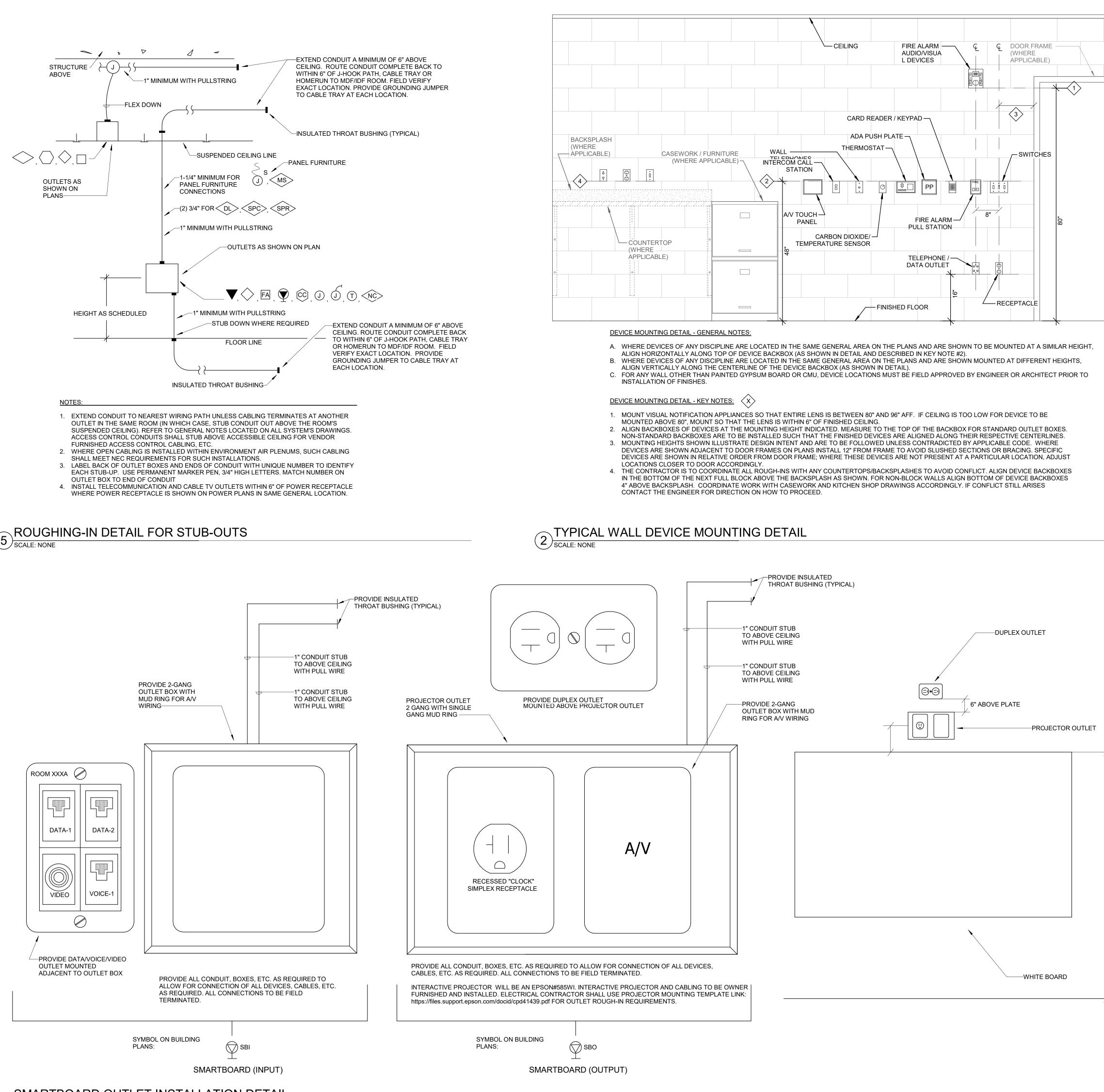
| FI | ECTRICAL | F |
|---|---|-------------|
| | | |
| P E | LANS, ELEVATIONS, XACT LOCATIONS O | AN F A |
| Ν | IOUNTED ELECTRICA | AL I |
| L | AY-OUT, AS INDICAT | ED |
| P | PER HOMERUN. EACI | ΗB |
| C | ROVIDED WITH A DE | ATI |
| A | HALL BE CONSIDER | тс |
| S | CONDUIT WITH THOS | UR |
| | CONDUCTORS PER N | |
| | C. MULTIWIRE BRANC IEC 100 / 210.4 (CIRC | |
| N | IEUTRAL CONDUCTO | R) |
| R | DENTIFY THE PANEL RECEPTACLES, SWIT | СН |
| V | ONSTRUCTION. PRO | NG |
| F C | ACILITIES, ENGRAVE | E EI TIE |
| | NSIDES OF ALL DEVIO CIRCUIT NUMBER. | CE |
| • R | RECEPTACLES THAT | AR |
| C | UTOMATIC MEANS S OR ENERGY MANAGE | ME |
| | IARKED IN ACCORDA | |
| | OCAL DISCONNECTS | |
| | O ENSURE ACCESS A | |
| R | AINTAINED PER NEC EQUIRED CLEARAN OF OTHER SYSTEMS | CE IN |
| | NSTALL ELECTRICAL | |
| | | |
| N A | IAMEPLATES OR ACC CCESS/MAINTENANC QUIPMENT BY OTHE | CES CE |
| N A E | IAMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE | CES CE |
| N A E | IAMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE GED NOTES | |
| TAC | IAMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE | |
| TAC | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE SGED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN | |
| TAC E1 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE SGED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC | |
| TAC E1 E2 E3 E4 | AMEPLATES OR ACC CCESS/MAINTENANC QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE | |
| TAC E1 E2 E3 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. | |
| TAC E1 E2 E3 E4 | AMEPLATES OR ACC CCESS/MAINTENANC QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE | |
| TAC E1 E2 E3 E4 E5 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE | |
| TAC E1 E2 E3 E4 E5 E6 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BO | |
| TAC E1 E2 E3 E4 E5 E6 E7 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK. INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. | |
| TAC E1 E2 E3 E4 E5 E6 E7 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC | |
| E2 E3 E4 E5 E6 E7 E8 E9 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. REFER TO CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUI | |
| TAC E1 E2 E3 E4 E5 E6 E7 E8 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, REF BENCY POWE ABOVE CEILING, REF BENCY POWE ABOVE CEILING, REF REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO | |
| E E E E E E E E E E E E E E | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ABOVE CEILING, RE JHOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUIN CONNECTION TO W EMERGENCY SHUTU WITH INSTALLER. | |
| E E E E E E E E E E E E E E E E E E E | GED NOTES GED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE TO CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUII CONNECTION TO W EMERGENCY SHUTO WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI | |
| E1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 | GED NOTES GED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, REF J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUII CONNECTION TO W EMERGENCY SHUT WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI BUSHINGS ON EACH SOFFIT. PROVIDE B | |
| E E E E E E E E E E E E E E | GED NOTES GED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUII CONNECTION TO W EMERGENCY SHUTO WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI BUSHINGS ON EACH SOFFIT. PROVIDE B BOTH SIDES OF SO EXISTING SQAURE I | |
| E11 E2 E3 E3 E4 E5 E6 E7 E8 E9 E10 E11 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE SGED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK. INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ROUTE CIRCUIT THI OFF, REFER TO DET EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUIN CONNECTION TO W EMERGENCY SHUT WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI BUSHINGS ON EACH SOFFIT. PROVIDE B BOTH SIDES OF SO EXISTING SQAURE I 120/208/3PH/4 12004 | |
| TAC E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 E11 | AMEPLATES OR ACC CCESS/MAINTENANG QUIPMENT BY OTHE SGED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL DEVICE IN CENTERED IN FASC INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ABOVE CEILING, RE J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUIN CONNECTION TO W EMERGENCY SHUT WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI BUSHINGS ON EACH SOFFIT. PROVIDE B BOTH SIDES OF SO EXISTING SQAURE I 120/208/3PH/4 12004 CONNECT PANEL TO REFER TO TAGGED | |
| E11 E1 E1 E3 E3 E4 E5 E6 E7 E8 E9 E10 E11 E11 E11 | GED NOTES GED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ABOVE CEILING, REF J-HOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUII CONNECTION TO W EMERGENCY SHUT WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI BUSHINGS ON EACH SOFFIT. PROVIDE B BOTH SIDES OF SO EXISTING SQAURE I 120/208/3PH/4 12004 CONNECT PANEL TO REFER TO TAGGED #4 GROUND IN 3" CC BREAKER. | |
| E11 E12 E11 E11 E11 E11 E112 E113 E115 | GED NOTES GED NOTES INSTALL DEVICES IN CASEWORK. COORI CASEWORK. COORI CASEWORK INSTAL INSTALL DEVICE IN CASEWORK INSTAL INSTALL DEVICE IN CENTERED IN FASC INSTALL RECEPTAC ROOF CURB. EMERGENCY POWE ABOVE CEILING, RE JHOOK PATH, REFE REQUIREMENTS. 8"X12" JUNCTION BC CEILING. PROVIDE T CHASE TO SIMILAR 8"X12" JUNCTION BC CEILING. REFER TO ADDITIONAL REQUII CONNECTION TO W EMERGENCY SHUT WITH INSTALLER. THREE 4" CONDUIT THROUGH WALL WI BUSHINGS ON EACH SOFFIT. PROVIDE B BOTH SIDES OF SO EXISTING SQAURE I 120/208/3PH/4 12004 CONNECT PANEL TO REFER TO TAGGED #4 GROUND IN 3" CO | |







- 4. INSTALL TELECOMMUNICATION AND CABLE TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.
- 5) SCALE: NONE



SMARTBOARD OUTLET INSTALLATION DETAIL SCALE: NONE

