CONSTRUCTION DOCUMENTS

CONVOCATION CENTER EXPANSION

1937 EDISON DRIVE PIQUA, OHIO 45653

223193.00

2-22-2024

OWNER

EDISON STATE COMMUNITY COLLEGE



ARCHITECT

FANNING HOWEY ASSOCIATES INC. 128 WEST MARKET STREET, CELINA, **OHIO 45822** 419-586-7771



SITE/CIVIL ENGINEER

ACCESS ENGINEERING SOLUTIONS

1200 IRMSCHER BLVD, SUITE B CELINA, OHIO 45822 (419) 586-1430



JEZERINAC GEERS & ASSOCIATES, INC. 5640 FRANTZ RD

DUBLIN, OHIO 43017 (614) 766-0066

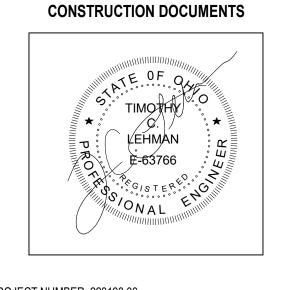


PRATER ENGINEERING ASSOCIATES, INC.

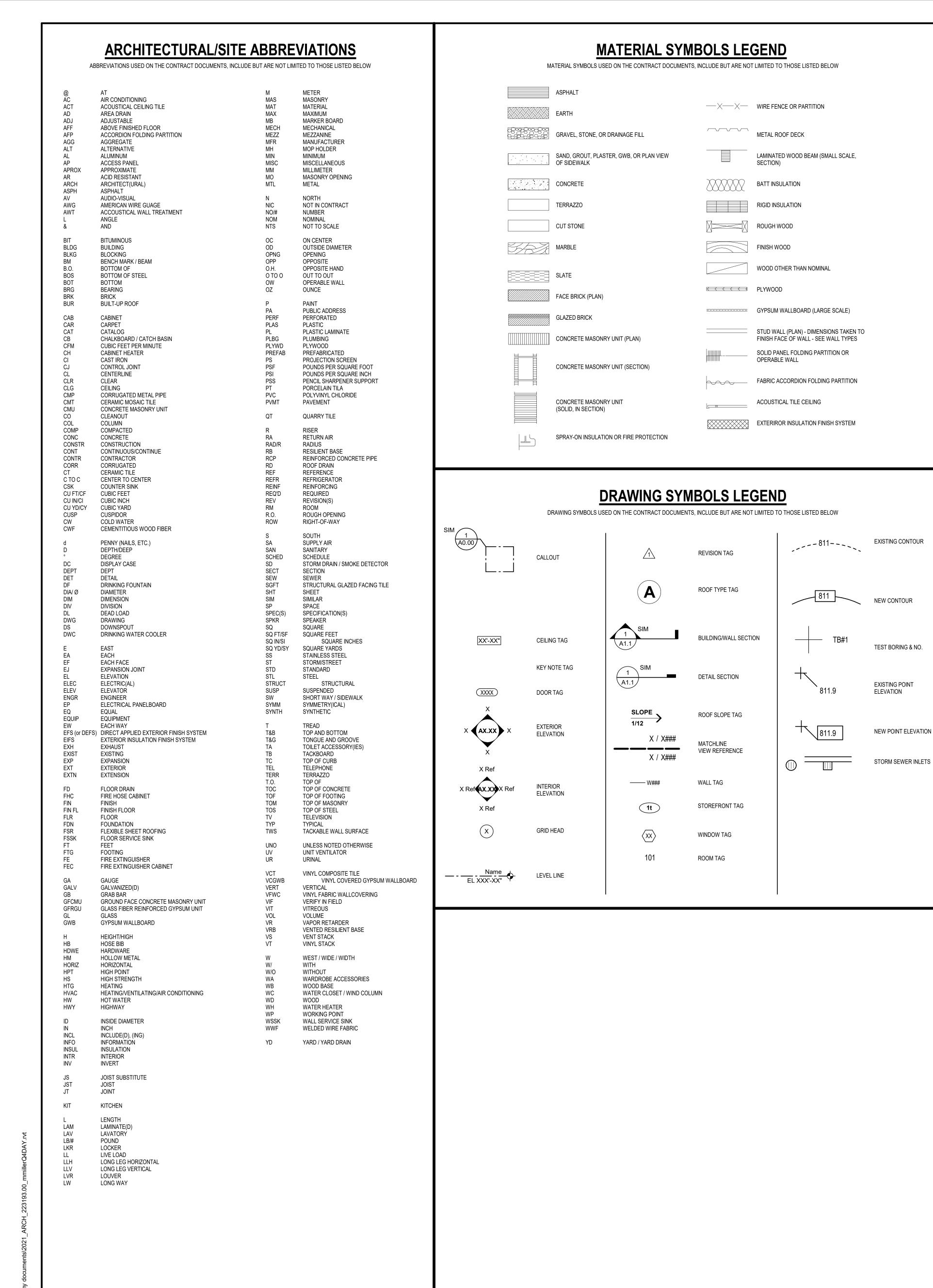
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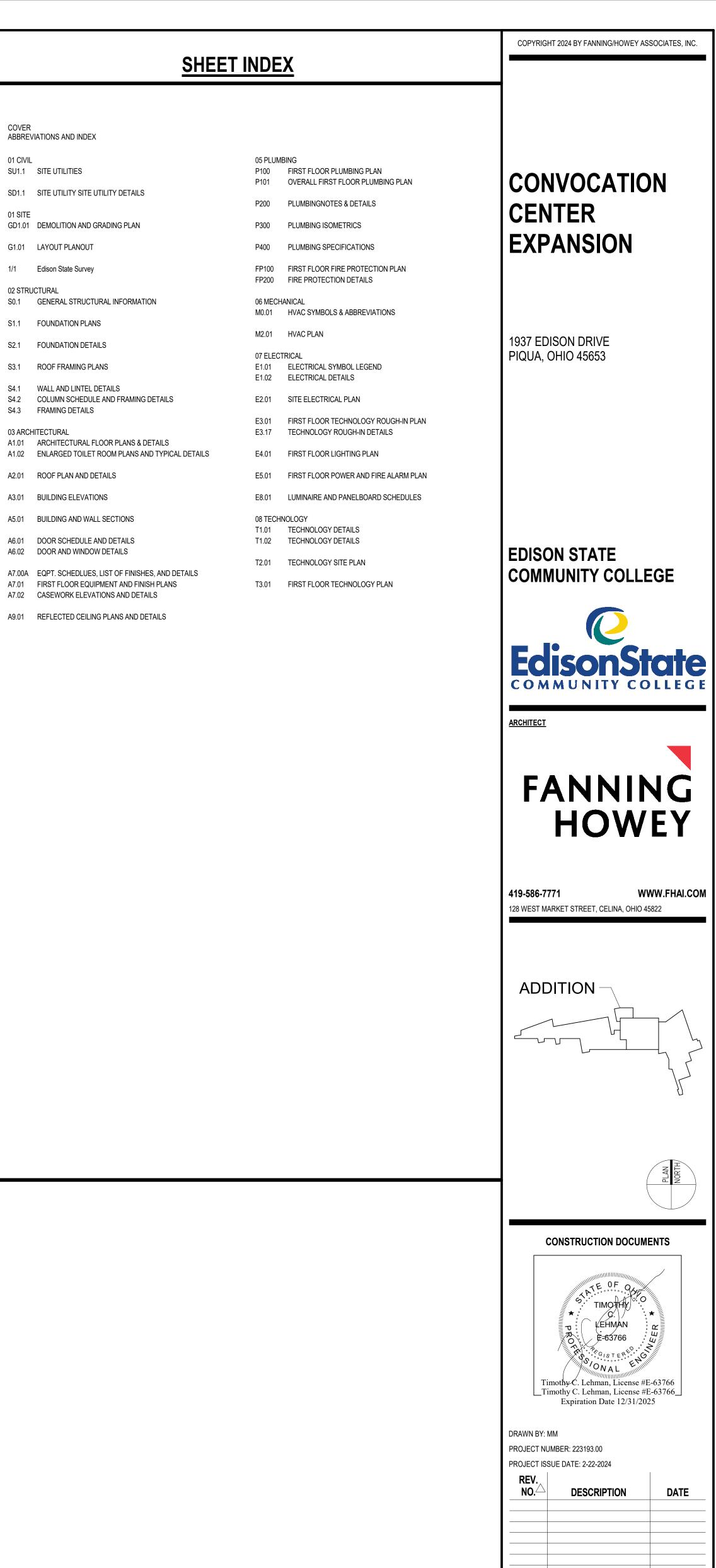
DUBLIN, OHIO 43016 (614) 766-4896



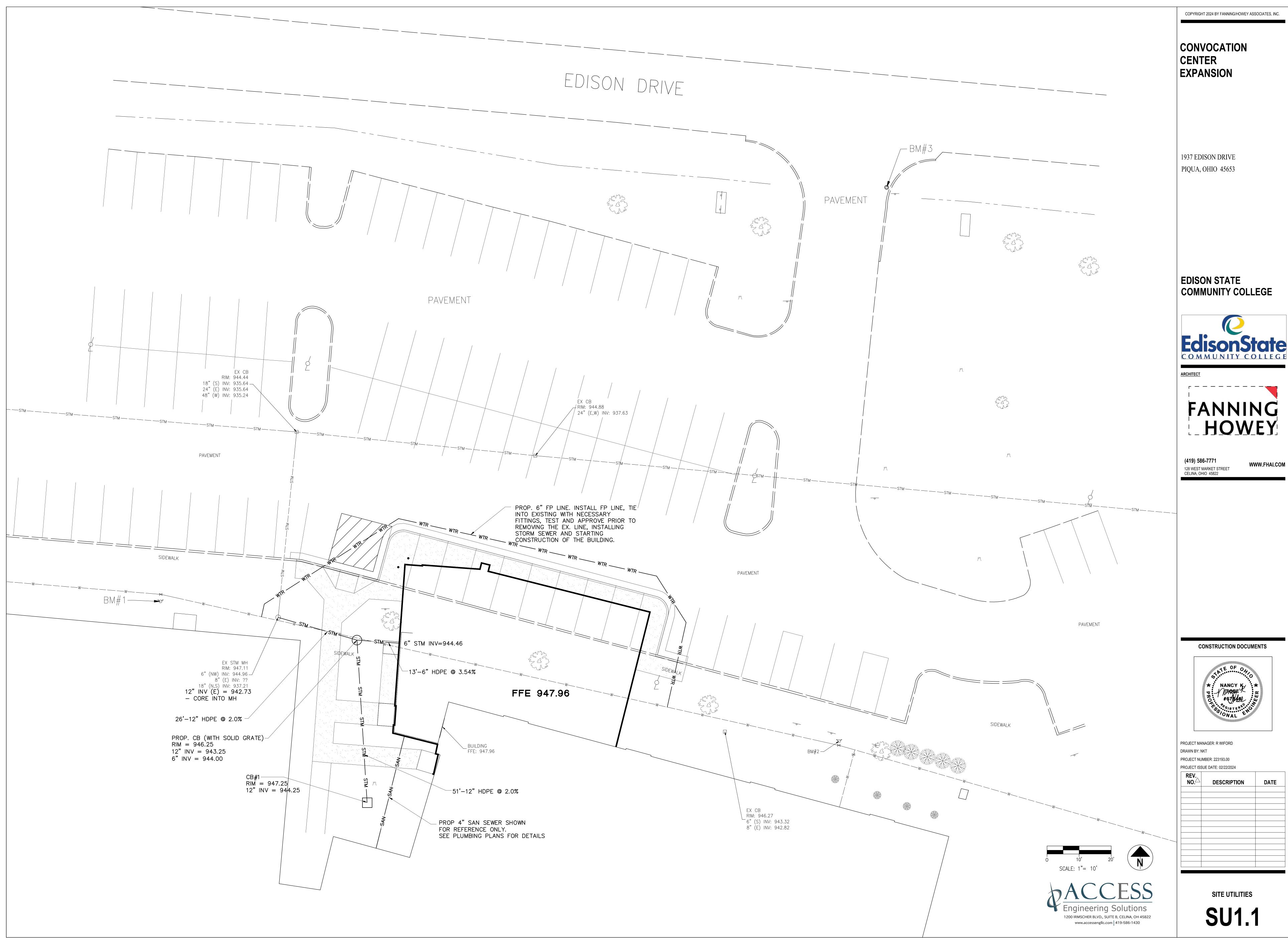


PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024





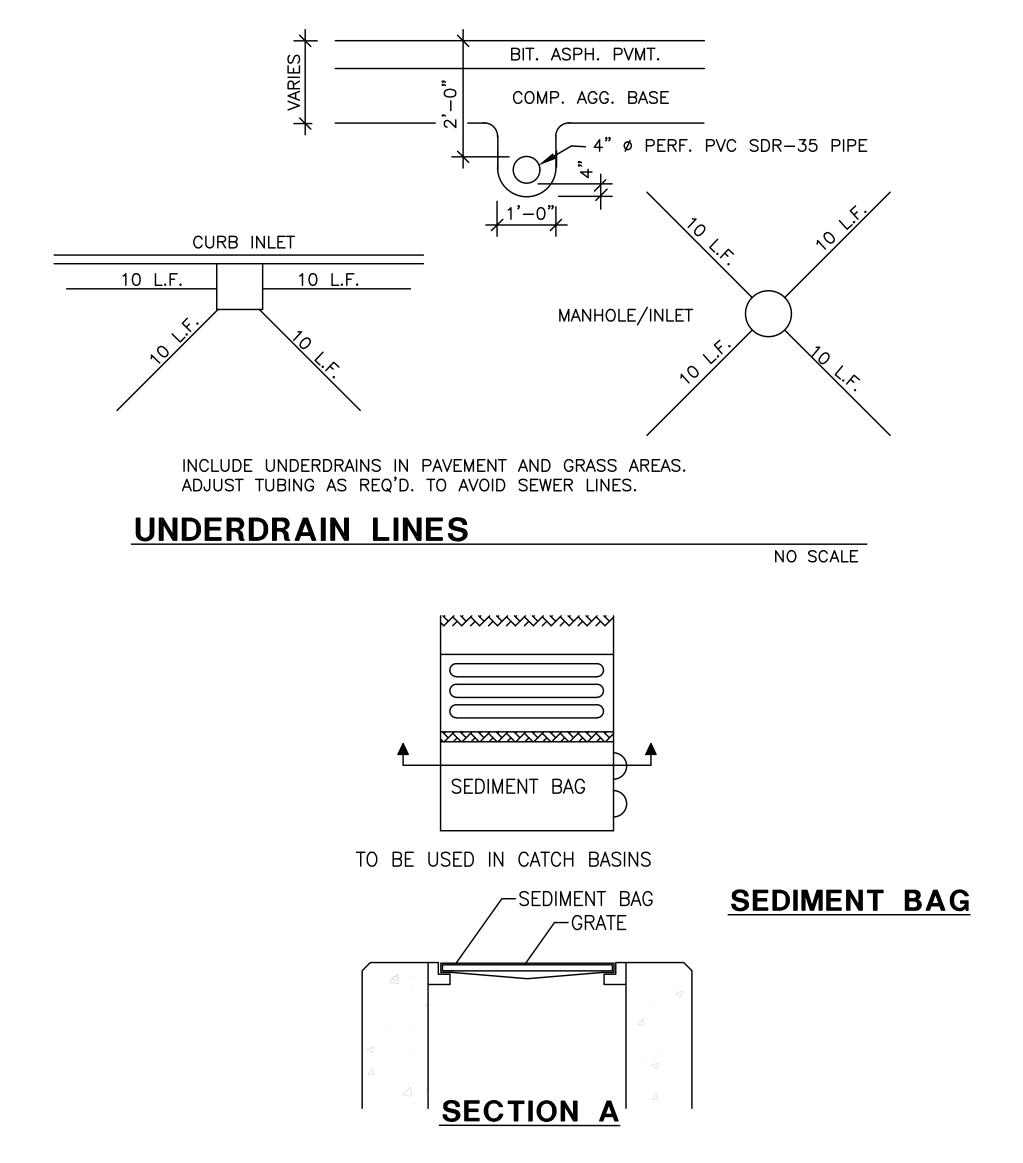
ABBREVIATIONS AND INDEX





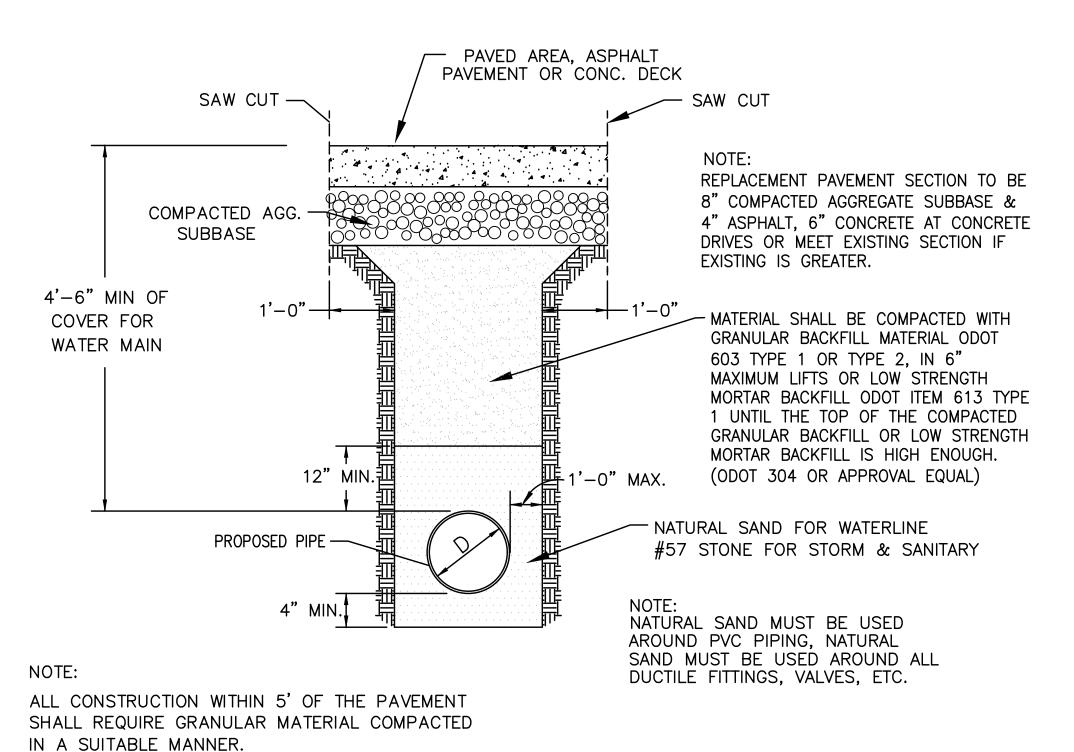
ODOT 2-2B CATCH BASIN

NOT TO SCALE



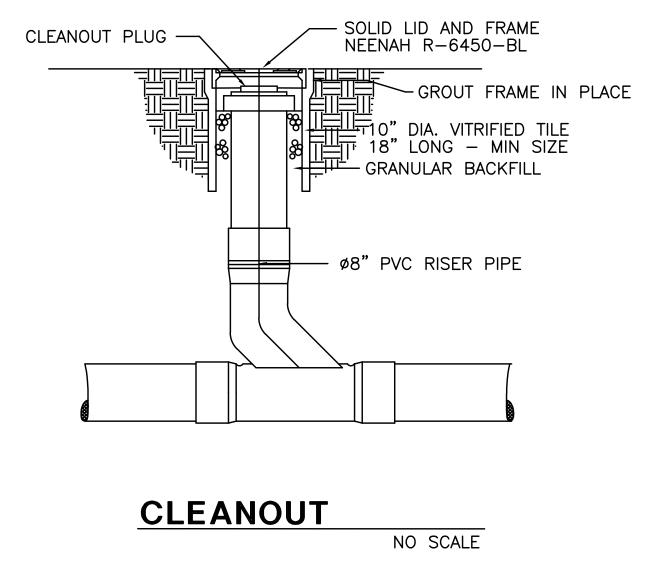
INSTALLATION: STAND GRATE ON END, PLACE CASTING IN BAG, OVER GRATE, FLIP GRATE OVER SO THAT OPEN END IS UP, PULL UP SLACK, TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE THE BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME. NO CASTING SHALL BE WRAPPED WITH LOOSE GEOSYNTHETIC MATERIAL, ONLY A BAG TYPE SYSTEM IS ACCEPTABLE.

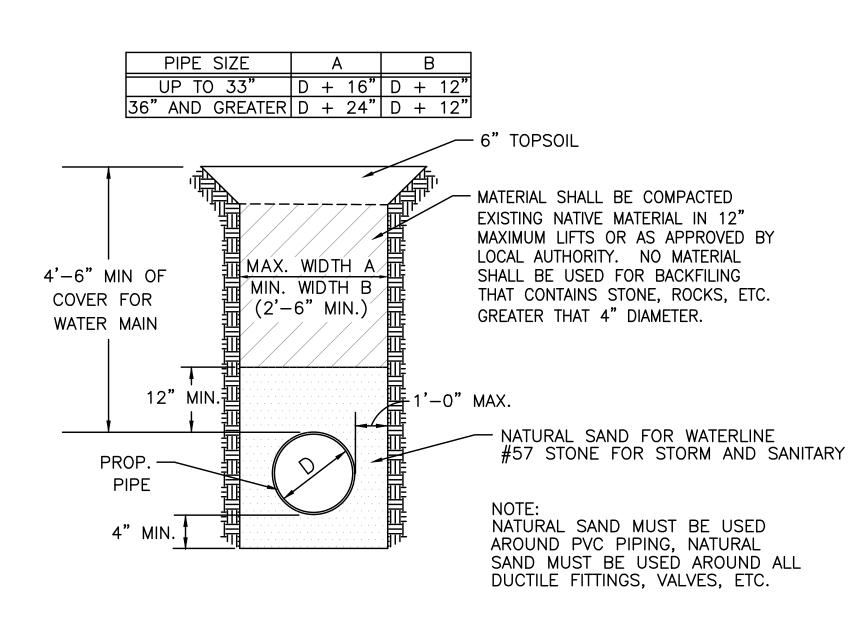
MAINTENANCE: AFTER SILT HAS DRIED, REMOVE IT FROM THE SURFACE OF THE BAG WITH BROOM.



PAVED AREA / TRENCH DETAIL

NOT TO SCALE





TRENCH & BEDDING DETAIL (NON PAVED) NOT TO SCALE

TRENCH DETAIL NOTES

- TRENCH EDGES NOT UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS CAN BE COMPACTED EXISTING NATIVE MATERIALS IN 8" MAXIMUM LIFTS OR AS APPROVED BY THE ENGINEER. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 4" DIAMETER.
- 2. ALL TRENCH EDGES UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS SHALL EITHER BE GRANULAR BACKFILL MATERIAL IN 6" MAXIMUM LIFTS OR LOW STRENGTHEN MORTAR BACKFILL. A DENSITY TEST ON GRANULAR BACKFILL OF 98% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED TO BE PERFORMED BY A COMMERCIAL TESTING LAB SATIFACTORY TO THE ENGINEER.
- 3. GRANULAR BEDDING SHALL BE CRUSHED STONE OR GRAVEL OR OTHER APPROVED EQUIVALENT.
- 4. MINIMUM ASPHALT PAVEMENT REPLACEMENT:
 PERMANENT PAVEMENT REPLACEMENT SHALL EQUAL OR EXCEED THE
 EXISTING PAVEMENT COMPOSITION.
- 5. WHERE THE EXISTING PAVEMENT IS THICKER, THE CONTRACTOR SHALL INCREASE THE COURSE THICKNESS TO MATCH EXISTING.
- 6. THE OPEN ENDS OF ALL PIPES SHALL BE PLUGGED TO THE APPROVAL OF TEH ENGINEER BEFORE LEAVING THE WORK FOR THE NIGHT.
- 7. ALL TRENCHES WITHIN PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NONWORKING HOURS, TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BYH APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

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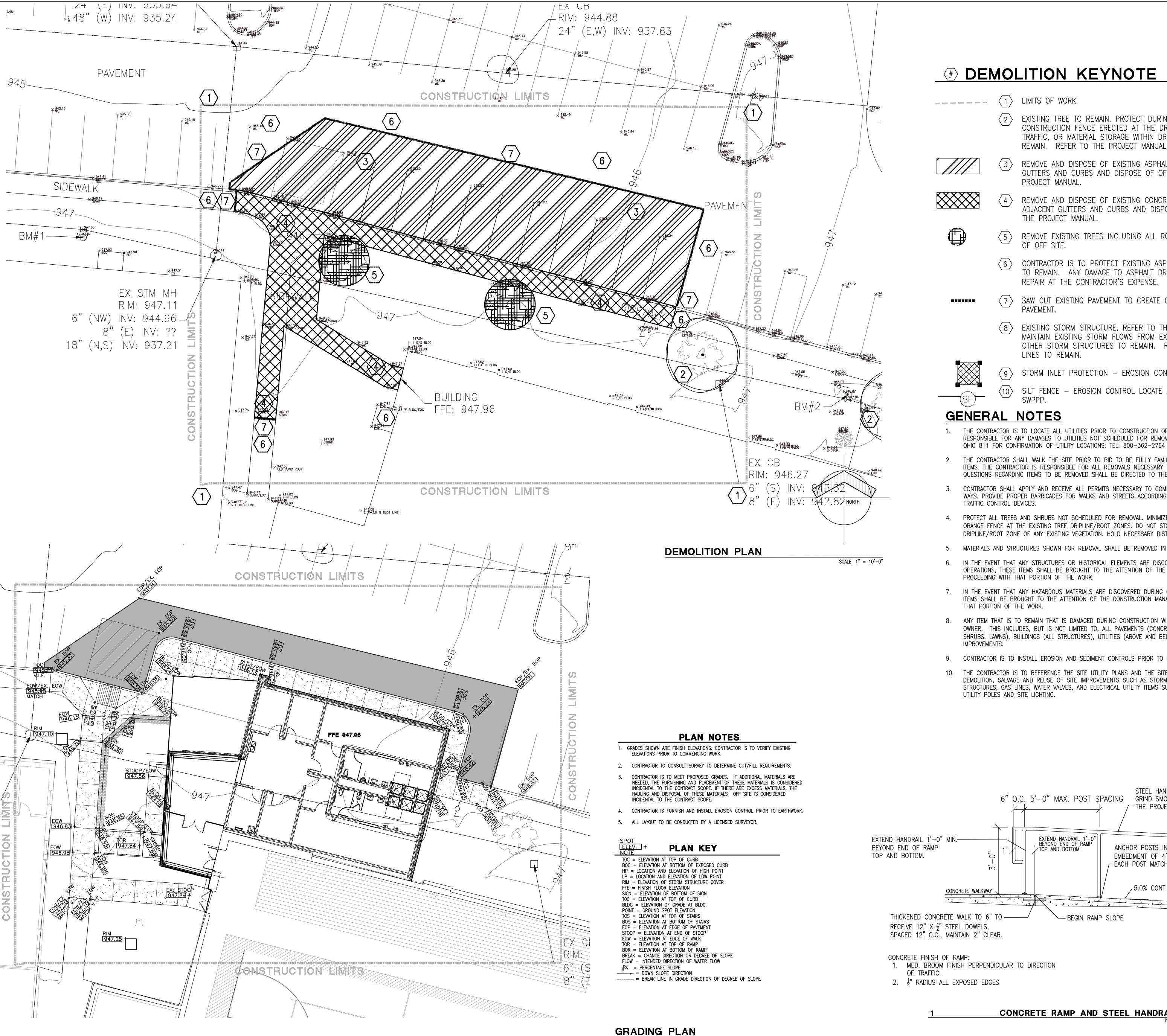
PROJECT MANAGER: R WIFORD
DRAWN BY: NKT
PROJECT NUMBER: 223193.00
PROJECT ISSUE DATE: 02/22/2024

REV. NO. DESCRIPTION DATE

SITE UTILITIES DETAILS

SD1.1

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DEMOLITION KEYNOTE LEGEND

EXISTING TREE TO REMAIN, PROTECT DURING CONSTRUCTION WITH CONSTRUCTION FENCE ERECTED AT THE DRIP LINE. NO CONSTRUCTION REMAIN. REFER TO THE PROJECT MANUAL.

REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENTS, ADJACENT GUTTERS AND CURBS AND DISPOSE OF OFF SITE, REFER TO THE

REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENTS. AND ADJACENT GUTTERS AND CURBS AND DISPOSE OF OFF SITE, REFER TO

REMOVE EXISTING TREES INCLUDING ALL ROOTS AND DEBRIS AND DISPOSE

CONTRACTOR IS TO PROTECT EXISTING ASPHALT DRIVES AND PAVEMENTS TO REMAIN. ANY DAMAGE TO ASPHALT DRIVES AND PAVEMENTS IS TO BE REPAIR AT THE CONTRACTOR'S EXPENSE.

SAW CUT EXISTING PAVEMENT TO CREATE CLEAN BUTT JOINT FOR NEW

EXISTING STORM STRUCTURE, REFER TO THE SITE UTILITIES PLAN.
MAINTAIN EXISTING STORM FLOWS FROM EXISTING TRACK DRAINS AND OTHER STORM STRUCTURES TO REMAIN. RECONNECT EXISTING STORM

STORM INLET PROTECTION - EROSION CONTROL, REFER TO THE SWPPP.

SILT FENCE - EROSION CONTROL LOCATE AS REQUIRED, REFER TO THE

- 1. THE CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION OPERATIONS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO UTILITIES NOT SCHEDULED FOR REMOVAL. CONTACT
- 2. THE CONTRACTOR SHALL WALK THE SITE PRIOR TO BID TO BE FULLY FAMILIAR WITH THE EXTENT OF REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION. QUESTIONS REGARDING ITEMS TO BE REMOVED SHALL BE DIRECTED TO THE ARCHITECT.
- CONTRACTOR SHALL APPLY AND RECEIVE ALL PERMITS NECESSARY TO COMPLETE WORK WITHIN PUBLIC RIGHT-OF WAYS. PROVIDE PROPER BARRICADES FOR WALKS AND STREETS ACCORDING TO OHIO MANUAL OF UNIFORM
- 4. PROTECT ALL TREES AND SHRUBS NOT SCHEDULED FOR REMOVAL. MINIMIZE EQUIPMENT OPERATION WITHIN THE ORANGE FENCE AT THE EXISTING TREE DRIPLINE/ROOT ZONES. DO NOT STORE, STOCKPILE, OR PARK WITHIN THE DRIPLINE/ROOT ZONE OF ANY EXISTING VEGETATION. HOLD NECESSARY DISTURBANCE TO A MINIMUM.
- MATERIALS AND STRUCTURES SHOWN FOR REMOVAL SHALL BE REMOVED IN ACCORDANCE WITH SECTION 024116.
- IN THE EVENT THAT ANY STRUCTURES OR HISTORICAL ELEMENTS ARE DISCOVERED DURING CONSTRUCTION OPERATIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER PRIOR TO
- 7. IN THE EVENT THAT ANY HAZARDOUS MATERIALS ARE DISCOVERED DURING CONSTRUCTION OPERATIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH
- ANY ITEM THAT IS TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL PAVEMENTS (CONCRETE, ASPHALT), VEGETATION (TREES, SHRUBS, LAWNS), BUILDINGS (ALL STRUCTURES), UTILITIES (ABOVE AND BELOW GROUND), OR OTHER PERMANENT
- CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO COMMENCING DEMOLITION.
- 10. THE CONTRACTOR IS TO REFERENCE THE SITE UTILITY PLANS AND THE SITE ELECTRICAL PLANS FOR THE DEMOLITION, SALVAGE AND REUSE OF SITE IMPROVEMENTS SUCH AS STORM WATER STRUCTURES, SANITARY SEWER STRUCTURES, GAS LINES, WATER VALVES, AND ELECTRICAL UTILITY ITEMS SUCH AS RISERS, TRANSFORMERS,

STEEL HANDRAIL: 1.5" O.D. POSTS AND RAILS, WELD AND GRIND SMOOTH, PAINT FOR EXTERIOR USE, REFER TO 6" O.C. 5'-0" MAX. POST SPACING THE PROJECT MANUAL ANCHOR POSTS IN CORES WITH EXTERIOR GROUT, MIN. EMBEDMENT OF 4". PROVIDE STEEL COVER PLATES AT -EACH POST MATCHING THE HANDRAIL FINISH. 5.0% CONTINUOUS SLOPE - BEGIN RAMP SLOPE

CONCRETE RAMP AND STEEL HANDRAIL

SCALE: 1" = 10'-0"

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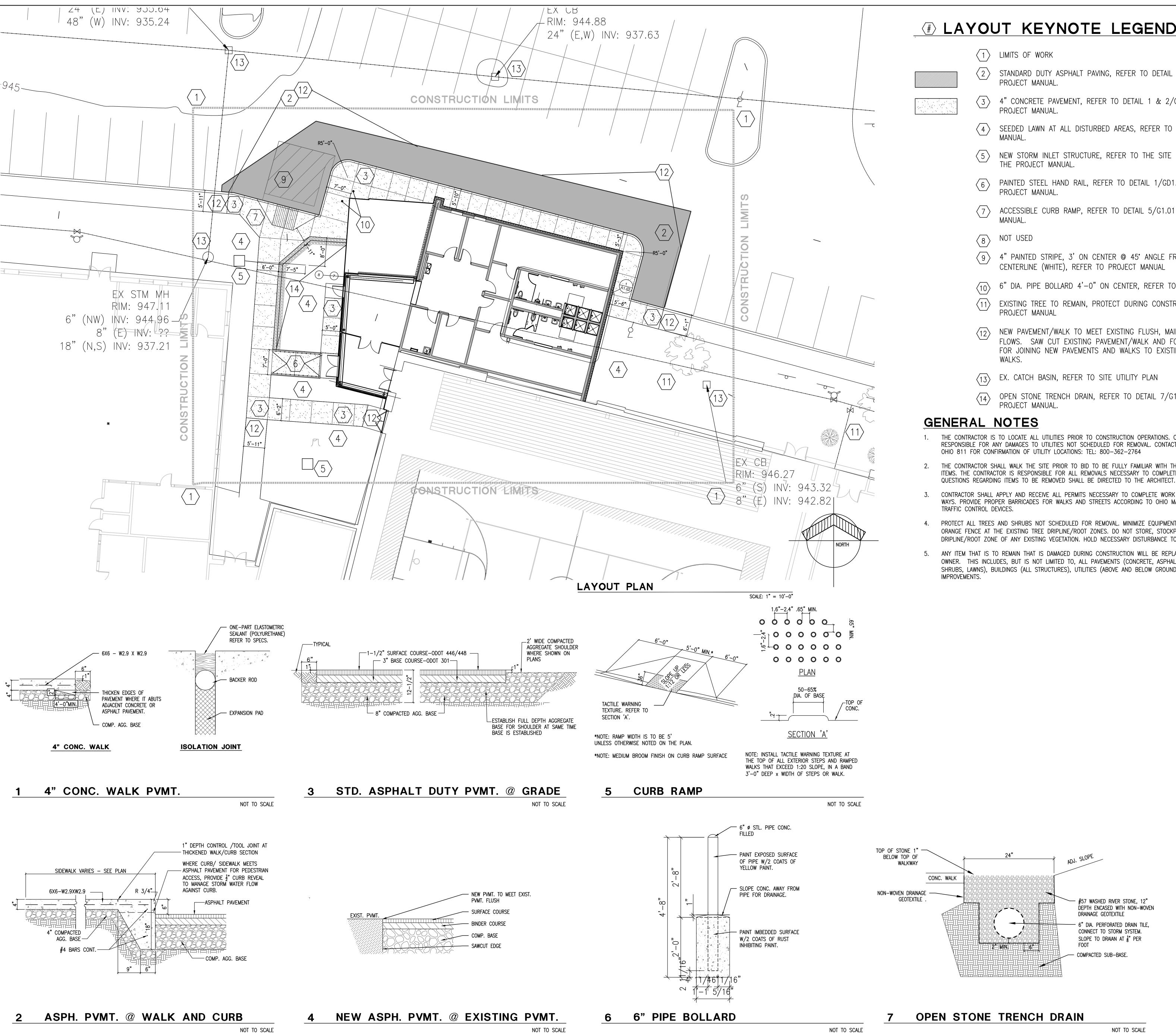


PROJECT MANAGER: R WIFORD DRAWN BY: SCH PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 02/22/2024

REV. NO.△	DESCRIPTION	DATE

DEMOLITION AND GRADING PLANS

GD1.01



LAYOUT KEYNOTE LEGEND

1 LIMITS OF WORK

2 STANDARD DUTY ASPHALT PAVING, REFER TO DETAIL 2/G1.01 AND THE

- 4" CONCRETE PAVEMENT, REFER TO DETAIL 1 & 2/G1.01, AND THE
- (4) SEEDED LAWN AT ALL DISTURBED AREAS, REFER TO THE PROJECT
- NEW STORM INLET STRUCTURE, REFER TO THE SITE UTILITIES PLAN AND THE PROJECT MANUAL.
- PAINTED STEEL HAND RAIL, REFER TO DETAIL 1/GD1.01 AND THE PROJECT MANUAL.
- ACCESSIBLE CURB RAMP, REFER TO DETAIL 5/G1.01 AND THE PROJECT
- (9) 4" PAINTED STRIPE, 3' ON CENTER @ 45° ANGLE FROM ROADWAY CENTERLINE (WHITE), REFER TO PROJECT MANUAL
- 6" DIA. PIPE BOLLARD 4'-0" ON CENTER, REFER TO DETAIL 2/GD1.01
- (11) EXISTING TREE TO REMAIN, PROTECT DURING CONSTRUCTION, REFER TO PROJECT MANUAL
- NEW PAVEMENT/WALK TO MEET EXISTING FLUSH, MAINTAIN STORM WATER FLOWS. SAW CUT EXISTING PAVEMENT/WALK AND FOLLOW DETAIL 4/G1.01 FOR JOINING NEW PAVEMENTS AND WALKS TO EXISTING PAVEMENTS AND
- (13) EX. CATCH BASIN, REFER TO SITE UTILITY PLAN
- OPEN STONE TRENCH DRAIN, REFER TO DETAIL 7/G1.01 AND THE PROJECT MANUAL.

THE CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION OPERATIONS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO UTILITIES NOT SCHEDULED FOR REMOVAL. CONTACT OHIO 811 FOR CONFIRMATION OF UTILITY LOCATIONS: TEL: 800-362-2764

- 2. THE CONTRACTOR SHALL WALK THE SITE PRIOR TO BID TO BE FULLY FAMILIAR WITH THE EXTENT OF REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION.
- CONTRACTOR SHALL APPLY AND RECEIVE ALL PERMITS NECESSARY TO COMPLETE WORK WITHIN PUBLIC RIGHT-OF WAYS. PROVIDE PROPER BARRICADES FOR WALKS AND STREETS ACCORDING TO OHIO MANUAL OF UNIFORM
- 4. PROTECT ALL TREES AND SHRUBS NOT SCHEDULED FOR REMOVAL. MINIMIZE EQUIPMENT OPERATION WITHIN THE ORANGE FENCE AT THE EXISTING TREE DRIPLINE/ROOT ZONES. DO NOT STORE, STOCKPILE, OR PARK WITHIN THE DRIPLINE/ROOT ZONE OF ANY EXISTING VEGETATION. HOLD NECESSARY DISTURBANCE TO A MINIMUM.
- ANY ITEM THAT IS TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL PAVEMENTS (CONCRETE, ASPHALT), VEGETATION (TREES, SHRUBS, LAWNS), BUILDINGS (ALL STRUCTURES), UTILITIES (ABOVE AND BELOW GROUND), OR OTHER PERMANENT

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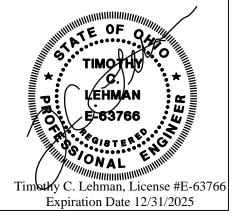
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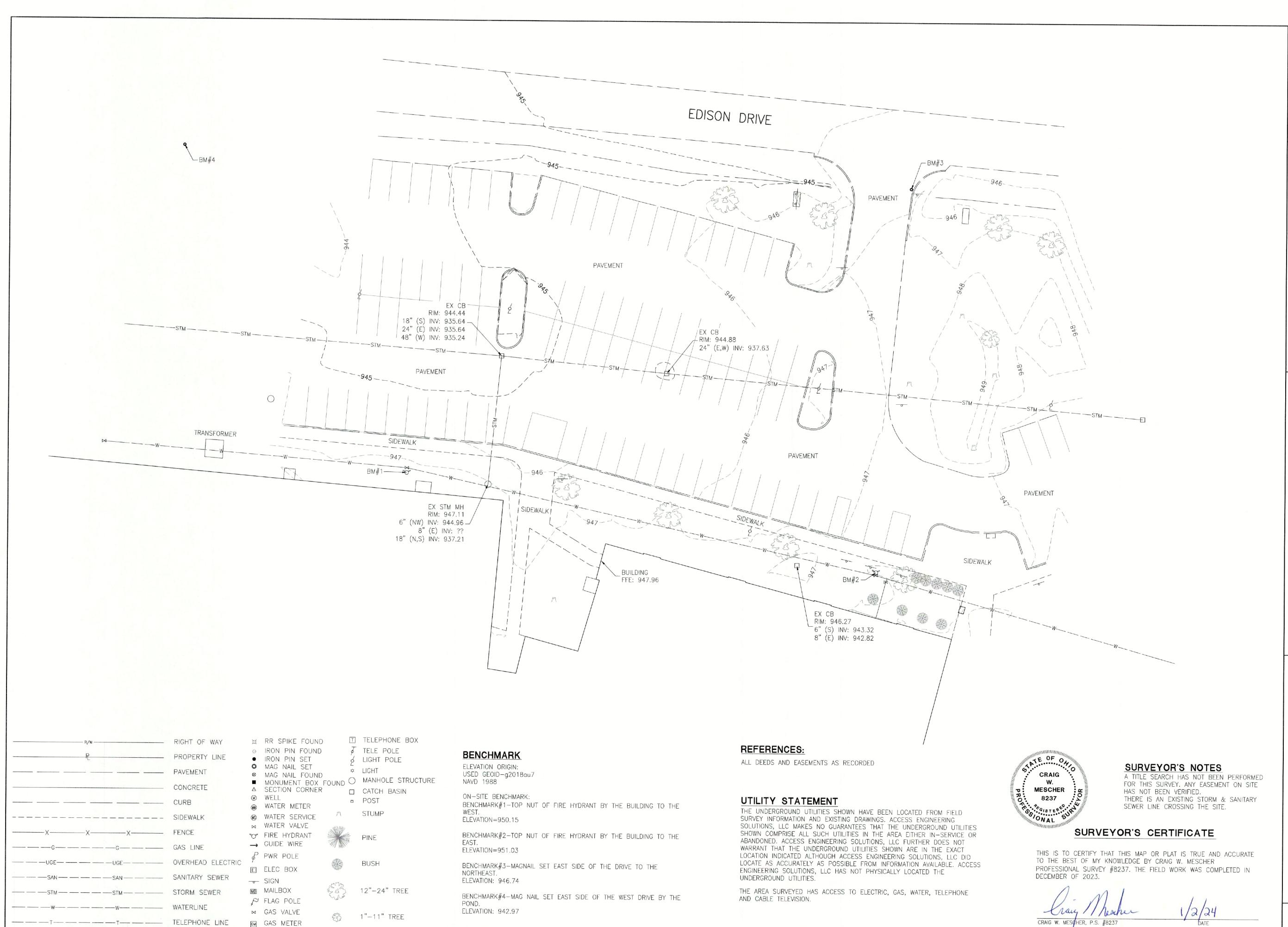
LAYOUT PLAN AND DETAILS

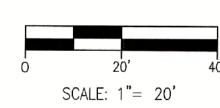
G1.01

#57 WASHED RIVER STONE, 12" DEPTH ENCASED WITH NON-WOVEN DRAINAGE GEOTEXTILE - 6" DIA. PERFORATED DRAIN TILE, CONNECT TO STORM SYSTEM. SLOPE TO DRAIAN AT 1" PER COMPACTED SUB-BASE.

NOT TO SCALE

OPEN STONE TRENCH DRAIN





COLLEGE ADDITION

EDISON LOCKER

1973 PIQU

SURVI OP

CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL

MECHANICAL EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY

DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. LL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS. 5. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL".

DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR

SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE FRECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL FRECTION PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER

SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.

CODE INFORMATION - GOVERNING CODE: 2017 OHIO BUILDING CODE - BUILDING RISK CATEGORY CATEGORY III FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WERE APPLICABLE) - FIRST FLOOR OCCUPANCIES ROOF LIVE LOADS - ORDINARY ROOFS 20 PSF SNOW LOADS - GROUND SNOW LOAD (Pg) - FLAT ROOF SNOW LOAD (Pf) - SNOW EXPOSURE FACTOR (Ce) - SNOW LOAD IMPORTANCE FACTOR (Is) - THERMAL FACTOR (Ct) - SNOW DRIFTING SEE PLAN WIND LOADS - BASIC ULTIMATE WIND SPEED (V ult) 120 MPH - BASIC ALLOWABLE WIND SPEED (V asd) 90 MPH - SITE EXPOSURE CATEGORY - INTERNAL PRESSURE COEFFICIENT +/- 0.18

SEISMIC LOADS: - SEISMIC IMPORTANCE FACTOR - MAPPED SPECTRAL RESPONSE ACCELERATION (Ss) - MAPPED SPECTRAL RESPONSE ACCELERATION (S1) - SEISMIC SITE CLASS - DESIGN SPECTRAL RESPONSE ACCELERATION (Sds) - DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1) - SEISMIC DESIGN CATEGORY - RESPONSE MODIFICATION COEFFICIENT (R) - SEISMIC RESPONSE COEFFICIENT (Cs) - SEISMIC DESIGN BASE SHEAR (V) EQUIVALENT LATERAL FORCE - ANALYSIS PROCEDURE INTERMEDIATE REINFORCED - BASIC SEISMIC FORCE-RESISTING SYSTEM: MASONRY SHEAR WALLS

SPECIAL LOADS - INTERIOR WALLS & PARTITIONS 5 PSF HORIZONTAL GEOTECHNICAL - GEOTECHNICAL ENGINEER: - REFERENCE REPORT I.D. OR NUMBER: XXXXXXXXXXXXXXXXXXX - REFERENCE REPORT DATE: XX/XX/20XX - ALLOWABLE DESIGN BEARING PRESSURE SHALLOW SPREAD FOOTINGS - FOUNDATION TYPE:

DELEGATED DESIGN ITEMS

PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. JEZERINAC GEERS WILL REVIEW THE DESIGN METHODOLOGY, LOADS, AND INSTALLATION DETAILS AS PART OF THE SHOP DRAWING REVIEW PROCESS AND MAY REQUEST A SEALED CALCULATION PACKAGE FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE DESIGNED ITEMS. DELEGATED DESIGN ITEMS FOR THIS PROJECT INCLUDE THE FOLLOWING: 2. STEEL BAR JOISTS

COLD-FORMED METAL FRAMING AND THEIR CONNECTIONS 4. CURTAIN WALLS AND STOREFRONT SYSTEMS

SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE"

MATERIALS:

A STRUCTURAL CONCRETE:

A.	STRUCTURAL CONCRETE:			
	MIX USAGE	f'c (PSI)	MAX w/cm	AIR CONTENT
	LEAN CONCRETE	1,500		
	FOOTINGS & INTERIOR COLUMN PIERS	3,500	0.55	
	INTERIOR SLABS ON GRADE	4,000	0.45	
	PERIMETER COLUMN PIERS, FOUNDATION STEMWALLS, EXTERIOR FOUNDATION WALLS, EXTERIOR COLUMN PIERS	4,500	0.45	5%-7%
	EXTERIOR SLABS ON GRADE & OTHER EXTERIOR FLATWORK	4,500	0.45	5%-7%
п	ALL DEFORMED DEINIFORCING DADS: EV = 60 000 DSI		•	_

 B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI.
 C. CEMENT: PORTLAND CEMENT, ASTM C150: TYPE I OR TYPE II; ASTM C1157: TYPE LH OR GU; OR ASTM C595: TYPE IL. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL. AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL MIXES UNLESS NOTED OTHERWISE

WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G. AIR-FNTRAINING: ASTM C260

G. FLY-ASH: ASTM C618, TYPE C OR F. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E. VAPOR RETARDER SHALL CONFORM TO ASTM E1745 "STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS", CLASS A. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643 "STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 15 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE OR

3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15 IN THE FIELD OFFICE AT ALL TIMES. A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE

ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE

PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.

5. FOOTINGS, PIERS, WALLS:

DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING. B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.
C. LAP BARS AS INDICATED IN THE CONCRETE REINFORCING LAP SCHEDULE.

A. LAP SPLICE REINFORCING BARS AS SCHEDULED.

8. CONSTRUCTION JOINTS: A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.

A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f)=30 AND LEVELNESS F(l)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS. B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED

C. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH. D. EXTERIOR SLABS - BROOM FINISH.

A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.

A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEREOF, FOR ONE DAY PLACEMENT.

DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE. E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

A. CONCRETE BLOCK: ASTM C90 (HOLLOW AND SOLID), MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY B. MORTAR: ASTM 270 TYPE S, MINIMUM COMPRESSIVE STRENGTH = 1,800 PSI GROUT FOR BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE WITH fc = 2,500 PSI MIN. DESIGN COMPRESSIVE STRENGTH OF MASONRY SYSTEM: fm = 2.250 PSI

ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI. LAP BARS AS INDICATED IN THE CONCRETE MASONRY REINFORCING LAP F. HORIZONTAL JOINT REINFORCING: STANDARD LADDER TYPE, 9 GA., HOT-DIPPED GALVANIZED FINISH. PROVIDE AT 8" O.C. BELOW GRADE, AND 16" O.C. ABOVE GRADE, UNLESS NOTED OTHERWISE

A. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS. WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR

A. PROVIDE 100% SOLID CMU BEARING, MINIMUM 3 COURSES UNDER BEAMS, 2 COURSES UNDER JOISTS, UNLESS DETAILED

WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.

B. PROVIDE SOLID OR GROUT-FILLED CMU FOR ALL BELOW-GRADE FOUNDATION WALLS. FILL CORE SOLID AROUND CAST-IN ANCHOR RODS.
PROVIDE SOLID CMU OR SOLIDLY FILLED HOLLOW CMU AT ALL EPOXY ANCHOR AND WEDGE ANCHOR LOCATIONS. EXTEND SOLID AREA AT LEAST 8" IN ALL DIRECTIONS FROM CENTER OF ANCHOR. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED. BUT WHILE IT IS STILL PLASTIC

FILL ALL BEARING POCKETS AROUND BEAM AND JOIST SEATS WITH SOLID CMU. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS ARE TO ALSO BE BEDDED IN ALL COURSES OF PIERS, PILASTERS, THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND H. PROVIDE APPROPRIATE MASONRY ANCHORS AT 16" O.C. MAX. TO TIE MASONRY TO ABUTTING STEEL COLUMNS, STEEL BEAM WEBS, AND ALL ABUTTING CONCRETE SURFACES.

WHERE HOLLOW MASONRY UNITS ARE USED ABOVE HOLLOW MASONRY UNITS OF A DIFFERENT THICKNESS, PROVIDE A

LAP SPLICE REINFORCING BARS AS SCHEDULED. K. ALL GROUTING OF MASONRY WALLS IS TO BE BY THE LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 5'-0"), UNLESS STRUCTURAL STEEL

. STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A992, Fv = 50 KSI STRUCTURAL STEEL CHANNELS, ANGLES, PLATES, ETC.: ASTM A36, Fv = 36 KSI

HIGH STRENGTH BOLTS: ASTM A325 OR A490 ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE ELECTRODES: SERIES E70 RECTANGULAR HSS: ASTM A500, GRADE C, FY = 50 KSI STRUCTURAL PIPES: ASTM A53, GRADE B, FY = 35 KSI SHEAR STUDS: ASTM A108, FY = 60 KSI

A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF: AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. AISC CODE OF STANDARD PRACTICE. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, CONNECTION DETAILS, AND SHOP DETAILS INDICATING CUTS, COPES, CAMBERS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND SIZES, AND SIZES AND LENGTHS OF WELDS. B. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES.

A. FIELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR B. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 110% OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER (55% EACH END), OR THE FORCES SHOWN ON THE PLANS. MINIMUM CONNECTION CAPACITY TO BE 15 KIPS. OLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS. MISCELLANEOUS STEEL MEMBERS (ANGLES, CHANNELS, ETC.) THAT SUPPORT DECK AROUND THE PERIMETER OF A FLOOR OR ROOF SHALL BE CONTINUOUS. WHERE SPLICES IN THESE MEMBERS MUST OCCUR TO FACILITATE ERECTION, PROVIDE PARTIAL ENETRATION SQUARE GROOVE WELD (BUTT JOINT) W/ 3/16" EFFECTIVE THROAT ON ONE SIDE, EACH LEG.

A. DO NOT PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY, NOR ANY STEEL WHICH IS SCHEDULED TO RECEIVE SPRAY-APPLIED OR INTUMESCENT-MASTIC FIREPROOFING. PAINT ALL INTERIOR EXPOSED STEEL (INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER. HOT-DIP GALVANIZE ALL EXTERIOR STEEL (INCLUDING LINTELS AND BRICK SHELF ANGLES). PROVIDE A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT FOR ALL BELOW-GRADE STEEL (INCLUDING ANCHOR RODS, NUTS, WASHERS, BASE PLATES, AND THE BELOW-GRADE PORTION OF COLUMNS) WHICH IS NOT FULLY ENCASED IN CONCRETE.

E. INTERIOR NON-EXPOSED STEEL NEED NOT BE PRIME PAINTED. A. PROVIDE HOLES FOR OTHERS, IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS OBTAIN PRIOR APPROVAL B. STEEL SUPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON

RCHITECTURAL, MECHANICAL AND/OR ON STRUCTURAL DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO RECONCILE EXACT SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THIS GROUT UNDER BEARING PLATES TO BE NON-METALLIC, NON-SHRINKING TYPE. D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE, 4" OF SOLID MASONRY, OR A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT. E. PROVIDE 1/4" THICK SETTING PLATES FOR ALL BEAMS AND BEAM LINTELS BEARING ON MASONRY OR CONCRETE WHICH DO NOT

REQUIRE A THICKER BEARING PLATE. F. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR RODS. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING. PROVIDE BOLT HOLES FOR WOOD NAILERS AND JOISTS BOLTED TO BEAMS. PROVIDE ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS. STEEL IN CONTACT WITH PRESSURE-TREATED LUMBER IS TO BE PROTECTED FROM CORROSION FROM PRESERVATIVE

CHEMICALS WITH A 20 MIL (MIN.) VAPOR BARRIER. BOLTS AND SCREWS THROUGH PRESSURE-TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. K. PROVIDE MISCELLANEOUS ANGLES OR CHANNELS TO SUPPORT DECK EDGES AROUND COLUMNS THAT EXTEND THROUGH THE PROVIDE ADDITIONAL SUPPORT FOR ALL DECK OPENINGS THAT ARE EQUAL TO OR GREATER THAN 12" IN WIDTH OR DIAMETER. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES. M. SEE ARCHITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STEEL NOT OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.

A. INSPECTION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE REQUIREMENTS OF AISC SPECIFICATION FOR STRUCTURAL JOINTS.

STEEL JOISTS

 SPECIFICATIONS: . FABRICATION AND ERECTION TO BE PER SJI REQUIREMENTS. B. MANUFACTURER TO BE A MEMBER OF SJI.

A. SUBMIT ERECTION PLANS AND CONNECTION DETAILS WHICH INDICATE MARK, QUANTITY, TYPE AND LOCATION OF ALL JOISTS AND BRIDGING. DETAILS TO INDICATE CONNECTIONS OF JOISTS AND BRIDGING B. INDICATE PAINT TYPE AND ALL ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.

A. QUANTITY, LOCATION, AND SPACING IS TO COMPLY WITH THE REQUIREMENTS OF SJI AND IS TO BE PROVIDED AS REQUIRED FOR THE DESIGN WIND UPLIFT LOADS SPECIFIED. PROVIDE HORIZONTAL BRIDGING UNLESS DIAGONAL BRIDGING IS REQUIRED BY SJI FOR THE JOIST TYPE AND SPAN. DIAGONAL BRIDGING TO BE BOLTED TO THE JOISTS AND AT THEIR POINT OF INTERSECTION. END BAYS OF DIAGONAL BRIDGING TO BE ANCHORED WITH HORIZONTAL BRIDGING, UNLESS SHOWN OTHERWISE. HORIZONTAL BRIDGING MAY BE USED IN LIEU OF DIAGONAL BRIDGING IN NO MORE THAN 2 CONSECUTIVE BAYS TO PROVIDE PASSAGE FOR DUCTWORK. E. ANCHOR BRIDGING TO INTERSECTING STRUCTURAL STEEL OR MASONRY WALLS.

A. WELD ALL JOISTS TO SUPPORTING STEEL PER SJI REQUIREMENTS. FIELD-BOLT JOISTS AT COLUMN LINES. EXTEND AND STABILIZE THE BOTTOM CHORD OF JOISTS AT COLUMNS, BUT DO NOT BOLT OR WELD UNLESS DETAILED OTHERWISE B. EXTEND ALL JOISTS 1" MINIMUM PAST CENTERLINE OF SUPPORTING MEMBER. WHERE POSSIBLE. BEARINGS TO BE PER DRAWINGS, OR WHERE SPECIAL INSTRUCTION IS NOT GIVEN, ACCORDING TO THE STANDARD SPECIFICATIONS OF SJI.

A PAINT ALL JOISTS WITH ONE COAT OF FABRICATORS STANDARD PRIMER LINESS NOTED OTHERWISE B. DO NOT PAINT JOISTS WHICH ARE SCHEDULED TO RECEIVE SPRAY-APPLIED OR INTUMESCENT-MASTIC FIREPROOFING. 6. MISCELLANEOUS:

ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL DUC SEE DRAWINGS FOR SPECIAL BEARING SHOES, EXTENDED ENDS, ETC. UNLESS NOTED OTHERWISE. DESIGN JOIST TOP CHORD EXTENSIONS FOR THE SAME POUND-PER-LINEAR-FOOT LOAD AS THE MAIN SPAN. SEE PLAN AND DETAILS FOR ADDITIONAL LOADS TO BE APPLIED ON EXTENDED END OF JOIST.

D. STANDARD JOIST SIZES SHOWN INCLUDE ALL COLLATERAL LOADS (SNOW DRIFT, MECHANICAL EQUIPMENT, ETC.) UNLESS

METAL DECK

A GALVANIZED SHEET STEEL ASTM A653 B. ROOF DECK: 1-1/2" DEEP, WIDE RIB, GALVANIZED.

A. FLOOR DECK: BEAM/JOIST SPACINGS SHOWN ON FRAMING PLANS INDICATE MAXIMUM SPACINGS FOR UNSHORED FLOOR CONSTRUCTION. GENERAL CONTRACTOR MUST VERIFY CHOSEN SUPPLIER'S FLOOR DECK WILL SUPPORT THE CONCRETE HICKNESS INDICATED FOR UNSHORED CONSTRUCTION AT THESE SPACINGS.

A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY. SDI "DESIGN MANUAL FOR FLOOR DECK AND ROOF DECKS".

A. DECK TO STRUCTURAL STEEL OR JOISTS: 5/8" DIAMETER PUDDLE WELDS. ROOF DECK FASTENING TO RESIST A GROSS UPLIFT OF 30 PSF MINIMUM.

A. GALVANIZED: CONFORM TO ASTM A653, G60.

A. UNITS ARE TO BE CONTINUOUS OVER AT LEAST THREE SPANS. WHERE FEWER THAN THREE SPANS ARE NEEDED, GAGE IS TO BE INCREASED AS REQUIRED TO OBTAIN THE SAME DESIGN STRENGTH AS THE THREE-SPAN CONDITION. END LAPS ARE ONLY

FIELD CUTTING TO BE PERFORMED WITH A SAW. METAL DECK SHOULD BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS IN PRESSURE-TREATED LUMBER

WITH A MINIMUM 20 MIL VAPOR BARRIER. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 AND ASTM A123 WITH A MINIMUM G185 COATING. PROVIDE ADDITIONAL SUPPORT FOR ALL DECK OPENINGS THAT ARE EQUAL TO OR GREATER THAN 12" IN WIDTH OR DIAMETER. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES.

COLD FORMED METAL FRAMING

A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY "DEPTH", "SHAPE", "WIDTH", AND "THICKNESS" AS FOLLOWS: 1. DEPTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC

SHAPE: S (C-SHAPE), T (TRACK), U (CHANNEL WIDTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC. THICKNESS: -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.) EXAMPLE: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA.

B. ALL 18 GA AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO BE 50 KSI MATERIAL. C. ALL TRACKS AND ACCESSORIES: FY = 33 KSI MINIMUM.

A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY LATEST REVISIONS OF: AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY. SUBMITTALS:

A. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED METAL FRAMING AND ACCESSORY REQUIRED.

B. SUBMIT FULLY DIMENSIONED ERECTION PLANS AND CONNECTION DETAILS INDICATING ALL COMPONENT AND MEMBER OCATIONS, ORIENTATION, AND LAYOUT. PLANS TO INCLUDE MEMBER SIZES, TYPES, GAGE DESIGNATIONS, QUANTITY AND SPACING. ALSO INCLUDE DETAILS OF CONNECTIONS NOTED SCREW TYPES, QUANTITIES, LOCATIONS, WELD SIZES, LENGTHS AND LOCATIONS, AND ADDITIONAL STRAPPING, BRACING, OR ACCESSORIES REQUIRED FOR A PROPER AND COMPLETE

FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE. . WELD SIZE TO BE 1/8" WITH AWS TYPE 6013 OR 7014 ROD.
EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF TAPPING #10-16 SCREWS.

A. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60. B. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT.

6. MISCELLANEOUS: A. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACKS.
PROVIDE HORIZONTAL BRIDGING AT 6'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE. BRIDGING IS NOT EQUIRED FOR PORTIONS OF INTERIOR NON-LOADBEARING STUD WALLS WHERE BOTH SIDES ARE FACED WITH SHEATHING. D. JOISTS TO BE LOCATED DIRECTLY OVER BEARING WALL STUDS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE E. BEARING WALL STUDS ARE TO BE LOCATED DIRECTLY BELOW JOIST OR ROOF TRUSS BEARING UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK. F. END BLOCKING OR CONTINUOUS TRACK IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM G. WEB PUNCH-OUTS FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF 10" AWAY FROM BEARING AND CONCENTRATED LOAD LOCATIONS. IF A PUNCH-OUT FALLS WITHIN 10" OF THESE LOCATIONS, PROVIDE REINFORCEMENT FOR THE MEMBER AS REQUIRED. ALTERNATELY LIN-PLINCHED SECTIONS MAY BE PROVIDED FOR BEAMS. JOISTS AND RAFTERS H. EACH MEMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING FULL-HEIGHT TRACKS AND #10 SCREWS AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGETHER WITH A 1" WELD AT 18" ON

A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR PECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER NGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR. B. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS

D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.

E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING

STAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS. F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
G. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT

H. MINIMUM EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 7 BOLT DIAMETERS. MINIMUM EMBEDMENT FOR SCREW ANCHORAGE AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 9 BOLT DIAMETERS.

ANCHORAGE TO CONCRETE A. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS: DEWALT POWER STUD +SDI OR +SD2 WEDGE EXPANSION ANCHOR

HILTI KWIK BOLT 3 EXPANSION ANCHOR HILTI KWIK BOLT TZ2 EXPANSION ANCHOR SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR . ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME

DEWALT LOK-BOLT AS SLEEVE ANCHOR HILTI HLC SLEEVE ANCHOR SIMPSON SLEEVE-ALL SLEEVE ANCHOR ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS DEWALT SCREW-BOLT+

HILTI KWIK HUS-EZ SCREW ANCHOR SIMPSON TITEN HD SCREW ANCHOR ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS DEWALT AC200+ ADHESIVE FOR REINFORCING BAR DEWALT PURE50+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR DEWALT PURE110+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR

E. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:

HILTI HIT-HY 200/3 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS. HILTI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAF HILTI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR. SIMPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR SIMPSON SET-3G ADHESIVE FOR THREADED ROD AND REINFORCING BAR

3. ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED: A. FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD OINTS, MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING. B. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS: DEWALT POWER STUD +SDI, SD4/SD6 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY

SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK

HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY

HILTI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS: HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY DEWALT SCREW-BOLT+ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY AND BRICK MASONRY SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED. SOLID. OR HOLLOW CONCRETE MASONRY

WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION. 2. HILTI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY, MULIT-WYTHE MASONRY OR BRICK WITH HOLES CONSTRUCTION SIMPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW

DEWALT AC100+ GOLD FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE

<u>ABBREVIATIONS</u>

AB ANCHOR BOLT ADD'L ADDITIONAL ALUMINUM ARCH ARCHITECTURAL BOTTOM OF BOTTOM FLANGE BRACE BUILDING BEAM COLD-FORMED METAL FRAMING COLD-FORMED METAL TRUSS CONTROL OR CONSTRUCTION JOINT CONSTRUCTION MANAGER CONCRETE MASONRY UNIT COLUMN

CONCRETE CONTINUOUS CUBIC YARD DEMOLISH OR DEMOLITION DIAMETER DIAGONAI DRAWING EXPANSION JOINT ENGINEER

EACH WAY EXPANSION FOUNDATION FINISH OR FINISHED FL00R FOOTING FIRE-RETARDANT TREATED WOOD FIELD VERIFY GALVANIZE GC GENERAL CONTRACTOR HC HOLLOW CORE HORIZ HORIZONTAL

INSIDE DIMENSION INTERIOR JOIST JOINT LGMF LIGHT GAGE METAL FRAMING LONG LEG BACK-TO-BACK LONG LEG HORIZONTAL LLV LONG LEG VERTICAL

MASONRY MAXIMUM MINIMUM METAL NORTH NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD

OPPOSITE OSB ORIENTED STRAND BOARD POWDER ACTUATED FASTENERS PRE-ENGINEERED METAL BUILDING PERP PERPENDICULAR POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT

REINF REINFORCING OR REINFORCED REQ'D REQUIRED SECTION STRUCTURAL ENGINEER OF RECORD SQUARE FOOT SLOPED SPECIFICATION SQUARE STAINLESS STEEL STANDARD SQUARE YARD SYMMETRICAL

TOP OF TOP AND BOTTOM TEMPORARY OR TEMPERATURE TONGUE AND GROOVE UN UNLESS NOTED UNO UNLESS NOTED OTHERWISE VB VAPOR BARRIER

VERTICAL WIDE FLANGE WITHOUT WEIGHT WWF WELDED WIRE FABRIC YD YARD

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL

STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS		
	CONTINUOUS	PERIODIC
TYPE	SPECIAL INSPECTION	SPECIAL INSPECTION
1 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING		
CAPACITY.		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND	Х	
COMPACTION OF COMPACTED FILL.	Λ	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN		X
PREPARED PROPERLY.		
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONS	TOLICTION	
No. 1	CONTINUOUS	PERIODIC
TYPE	SPECIAL INSPECTION	SPECIAL INSPECTION
INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		X
2. INSPECT ANCHORS CAST IN CONCRETE.		X
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		
A ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS		
TO RESIST SUSTAINED TENSION LOADS.	X	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.		X
4. VERIFY USE OF REQUIRED DESIGN MIX.		X
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP	Х	
AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	^	
6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING		X
FORMED.		
'LEVEL B' QUALITY ASSURANCE REQUIRED SPECIAL INSPECTIONS AND TESTS OF N	MACONDY CONCEDUCTION	
MINIMUM TESTS	MASUNKY CONSTRUCTION	
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED	TO THE PROJECT SITE	
IN ACCORDANCE WITH ARTICLE 1.5.B.1.b.3 FOR SELF CONSOLIDATION		
VERIFICATION OF f_m AND f_{AAC} IN ACCORDANCE WITH ARTICLE 1.4B PRIOR TO	CONSTRUCTION,	
EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.		

MINIMUM SPECIAL INSPECTION SPECIAL INSPECTION SPECIAL INSPECTION VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR. B CONSTRUCTION OF MORTAR JOINTS C. LOCATION OF REINFORCEMENT AND CONNECTORS 3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. GROUT SPACE. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF REINFORCEMENT AND CONNECTORS. D. PROPORTIONS OF SITE-PREPARED GROUT. E. CONSTRUCTION OF MORTAR JOINTS. VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE D. PLACEMENT OF GROUT. 5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS. REQUIRED SPECIAL INSPECTIONS AND TESTS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS SPECIAL INSPECTION | SPECIAL INSPECTION 1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS A. END CONNECTIONS — WELDED OR BOLTED. 2. BRIDGING — HORIZONTAL OR DIAGONAL A. STANDARD BRIDGING. $_{\mbox{\footnotesize B.}}$ BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS FOR COMPOSITE JOISTS,

STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

K-SERIES, LH-SERIES, DLH-SERIES, OR JOIST GIRDERS.

TABLE 2	STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE		
	REQUIRED SPECIAL INSPECTIONS AND TESTS FOR STEEL DECK		
	TYPE	PERFORM	OBSERVE
1. INSP	ECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:		
	VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS,	X	
	INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.		
	B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	X	
INSP	ECTION OR EXECUTION TASKS AFTER DECK PLACEMENT:		
	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION	X	
	DOCUMENTS.	^	
	3. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE	X	
	CONSTRUCTION DOCUMENTS.		
	C. DOCUMENT ACCEPTED OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES.	X	
	ECTION OR EXECUTION TASKS PRIOR TO WELDING		
	A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.		X
	3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.		X
	C. MATERIAL IDENTIFICATION (TYPE/GRADE).		X
	D. CHECK WELDING EQUIPMENT.		X
	ECTION OR EXECUTION TASKS DURING WELDING:		
	A. USE OF QUALIFIED WELDERS.		X
	B. CONTROL AND HANDLING OF WELDED CONSUMABLES		X
	C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE).		X
	D. WPS FOLLOWED		X
	ECTION OR EXECUTION TASKS AFTER WELDING:		
	A. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	X	
I	B. WELDS MEET VISUAL ACCEPTANCE CRITERIA.	X	
(C. VERIFY REPAIR ACTIVITIES.	X	
[D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X	
INSP	ECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING:		
	A. MANUFACTURER INSTALLATION INSTRUCTIONS ARE AVAILABLE FOR MECHANICAL FASTENERS.		X
I	B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.		X
(C. PROPER STORAGE FOR MECHANICAL FASTENERS.		X
7. INSP	ECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING:		
	A. FASTENERS ARE POSITIONED AS REQUIRED.		X
	B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.		X
	ECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING:		
	A. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	X	
1	B. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS.	X	
(C. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS.	X	
[D. VERIFY REPAIR ACTIVITIES.	X	
	E. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS.	X	
STEEL DECK	INSPECTION NOTES:		

1. "PERFORM" — SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT. "OBSERVE" — SHALL MEAN TO INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION

TYPE	PERFORM	OBSERVE
1. INSPECTION TASKS PRIOR TO WELDING:		
A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.		X
B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	X	
· · ·		
C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	
D. MATERIAL IDENTIFICATION (TYPE/GRADE)		X
E. WELDER IDENTIFICATION SYSTEM.		X
F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):		
· ·		
JOINT PREPARATIONS.		X
 DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL. 		X
CLEANLINESS (CONDITION OF STEEL SURFACES).		X
TACKING (TACK WELD QUALITY AND LOCATION).		X
· ·		l â
BACKING TYPE AND FIT (IF APPLICABLE).		^
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT		
G. GEOMETRY):		
JOINT PREPARATIONS.		V
		X
 DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL. 		X
 CLEANLINESS (CONDITION OF STEEL SURFACES). 		X
 TACKING (TACK WELD QUALITY AND LOCATION). 		X
H. CONFIGURATION AND FINISH OF ACCESS HOLES.		l x
		^
I. FIT-UP OF FILLET WELDS:		
 DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL. 		Х
CLEANLINESS (CONDITION OF STEEL SURFACES).		X
· ·		
TACKING (TACK WELD QUALITY AND LOCATION).		X
2. INSPECTION TASKS DURING WELDING:		
A. CONTROL AND HANDLING OF WELDING CONSUMABLES.		
PACKAGING		V
		X
EXPOSURE CONTROL		X
B. NO WELDING OVER CRACKED TACK WELDS.		X
C. ENVIRONMENTAL CONDITIONS:		
WIND SPEED WITHIN LIMITS		X
PRECIPITATION AND TEMPERATURE		X
D. WPS FOLLOWED:		
SETTINGS ON WELDING EQUIPMENT		X
TRAVEL SPEED		X
 SELECTED WELDING MATERIALS 		X
SHIELDING GAS TYPE/FLOW RATE		
		X
PREHEAT APPLIED		X
 INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) 		X
PROPER POSITION (F, V, H, OH)		X
		X
TRAVEL SPEED		
E. WELDING TECHNIQUES		
INTERPASS AND FINAL CLEANING		X
EACH PASS WITHIN PROFILE LIMITATIONS		l \hat{x}
EACH PASS MEETS QUALITY REQUIREMENTS		X
F. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	
3. INSPECTION TASKS AFTER WELDING:		
A. WELDS CLEANED.		· ·
		X
B. SIZE, LENGTH, AND LOCATION OF WELDS	X	
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
CRACK PROHIBITION	V	I
	X	
WELD /BASE-METAL FUSION	X	
CRATER CROSS SECTION	X	
WELD PROFILES	X	
WELD SIZE	X	
UNDERCUT	X	
POROSITY	X	
D. ARC STRIKES.	X	
		I
E. K-AREA	X	
F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.	X	
G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X	
,		
H. REPAIR ACTIVITIES.	X	
I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X	
J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.		X
K. NON-DESTRUCTIVE TESTING FOR COMPLETE-JOINT-PENETRATION (CJP) WELDS:		
,		
 UT SHALL BE PERFORMED ON ALL CJP JOINTS IN MATERIAL 5/16" AND GREATER. 	X	
4. INSPECTION TASKS AFTER BOLTING:		
	V	I
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	
5. ANCHOR ROD PLACEMENT		
INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL		
A. STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (ANCHOR DIAMETER, GRADE, TYPE, AND		X
LENGTH OF THE ANCHOR ROD OR EMBEDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE		
CONCRETE) PRIOR TO PLACEMENT OF CONCRETE.		
6 INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON		l v

6. INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON STRUCTURAL STEEL INSPECTION NOTE 1. "PERFORM" — THESE TASKS SHALL BE PERFORMED FOR EACH WELDED/BOLTED JOINT OR MEMBER

2. "OBSERVE" — THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE.

REINFORCING COVER/TOLERANCE (#3 - #11 BARS) MIN. COVER | PLACEMENT **EXPOSURE CONDITION** (U.N.O.) TOLERANCE CAST AGAINST AND PERMANENTLY 0", +3" EXPOSED TO EARTH: EXPOSED TO EARTH OR WEATHER 1-1/2" -1/4", +1/2" - #5 AND SMALLER BARS: -1/4", +1/2" - #6 AND LARGER BARS: NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND 3/4" -1/4", +3/8" - SLABS AND WALLS: 1-1/2" -1/4", +1/2" - BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)

"-" INDICATES TOLERANCE TOWARDS MEMBER FACE. "+" INDICATES TOLERANCE AWAY FROM MEMBER FACE.

	LAP SPLICE SCHEDULE FOR MASONRY REINFORCING					
f'm =	f'm = 2,250 psi BAR CENTERED IN WALL d = t/2					
	ld (in)					
BAR#	8" CMU	10" CMU	12" CMU	14" CMU		
#3	1'-0"	1'-0"	1'-0"	1'-0"		
#4	1'-0"	1'-0"	1'-0"	1'-0"		
#5	1'-7"	1'-3"	1'-0"	1'-0"		
#6	2'-11"	2'-4"	1'-11"	1'-7"		
#7	4'-1"	3'-2"	2'-7"	2'-2"		
#8	(6'-3")	4'-10"	3'-11"	3'-4"		
#9	-	(6'-2")	5'-0"	4'-3"		

1. () INDICATES LAP LENGTH GREATER THAN MAXIMUM ALLOWABLE HEIGHT OF 5'-0" FOR LOW-LIFT GROUTING.

2. APPLICABLE ONLY FOR BARS CENTERED IN MASONRY CELL. 3. APPLICABLE ONLY FOR 60 KSI STEEL AND ASTM C90 BLOCK.

LAP SPLICE SCHEDULE FOR **CONCRETE REINFORCING** 3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS 1 1/2" CLR. ANI **GREATER** 3'-7" 4'-8"

CONCRETE REINFORCING 4,000 psi & 4,500 psi CONCRETE **UNCOATED REINFORCING BARS** 1 1/2" CLR. AND **GREATER** SIZE **#10** |11'-8"

LAP SPLICE SCHEDULE FOR

TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

SCHEDULED OTHERWISE. 3. APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.

4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS

WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR

TOLERANCE ± 2 in. (51mm) WHEN WALL LENGTH IS LONGER **VERTICAL WALL** THAN 24". 1" WHEN REINF. SHORTER THAN 24"

TOLERANCE PER TABLE SPECIFIED DISTANCE d FROM ALLOWABLE TOLERANCE FACE OF WALL TO CENTER OF REINFORCEMENT ± 1/2 in. (13 mm) d ≤ 8 in. (203 mm) 8 in. $(203 \text{ mm}) < d \le 24 \text{ in.} (607 \text{ mm})$ ± 1 in. (25 mm)

d > 24 in. (607 mm)

PROVIDE 1/2" MIN. CLEAR BETWEEN REINFORCING BARS AND THE INSIDE FACE OF THE MASONRY CELL.

VERTICAL

WALL REINF.

CMU REINFORCING TOLERANCE LIMITATION

± 1-1/4 in. (32 mm)

CONVOCATION CENTER

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EDISON STATE COMMUNITY COLLEGE



ARCHITECT

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CONSTRUCTION DOCUMENTS



DRAWN BY: JPK (R21) PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

NO.	DESCRIPTION	DATE

GENERAL STRUCTURAL INFORMATION

STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO

POST-INSTALLED ANCHOR SYSTEMS

CENTER, EACH SIDE, EACH PIECE, FOR THE FULL LENGTH OF THE COLUMN.

CONTINUOUS COURSE OF SOLID MASONRY AT LEAST 8" HIGH BELOW THE TRANSITION. CLEAN-OUTS AND INSPECTIONS ARE PROVIDED.

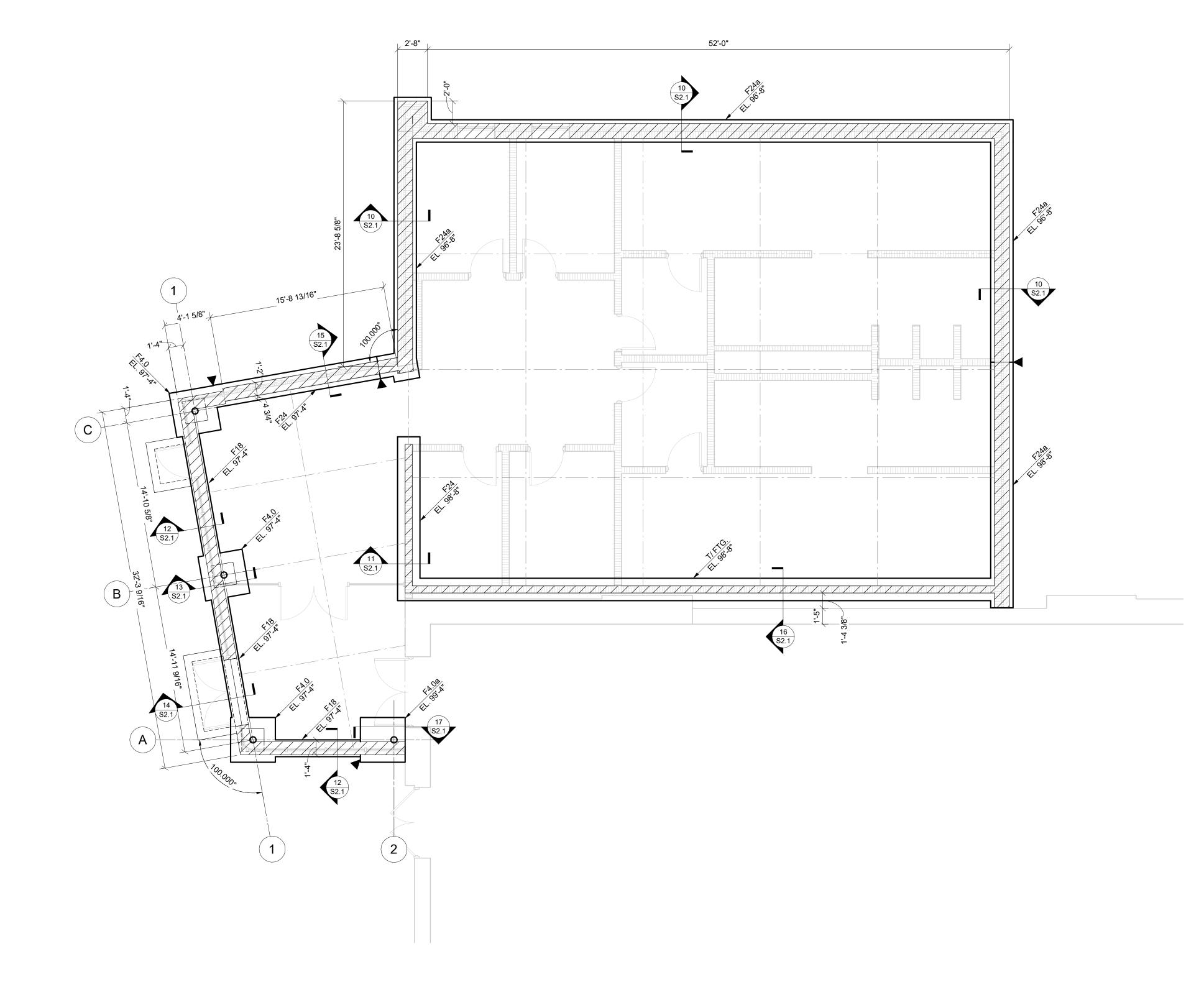
Jezerinac Geers PROJECT NUMBER: 23.27.534 DESIGNED BY: JEA

DRAWN BY: JPK (R21)

CHECKED BY: SNF DOCUMENT STATUS: PROGRESS

CONSTRUCTI

FOUNDATION PLAN - ALTERNATE



CONT. WALL FOOTING SCHEDULE 1'-6" x 1'-0" DP. 2'-0" x 1'-0" DP. 2'-0" x 2'-2" DP. SPREAD FOOTING SCHEDULE 4'-0" x 4'-0" x 1'-0" DP. F4.0a 4'-0" x 4'-0" x 2'-2" DP.

SLAB NOTES SLAB CONSTRUCTION:

> 4" CONCRETE SLAB ON GRADE W/ 6x6 W2.9/W2.9 WWF, OVER 15-MIL. VAPOR BARRIER, OVER ?????" COMPACTED STONE SUBBASE. MESH IS TO BE SUPPORTED DURING CONCRETE PLACEMENT ON CHAIRS OR BOLSTERS AT MID-DEPTH OF SLAB. SEE PLAN FOR FINISHED FLOOR ELEVATIONS. COORDINATE TOP OF SLAB ELEVATION WITH THICKNESS OF ARCHITECTURAL FINISHED FLOOR PRODUCTS. INDICATES SLAB CONTROL/CONSTRUCTION JOINT PER SECTION 8/S2.1. CONTROL JOINTS ARE TO BE LOCATED IN AREAS SHOWN AT A SPACING NOT TO EXCEED 12'-0" O.C. UNLESS DIMENSIONED OTHERWISE. DISTANCE BETWEEN SLAB CONSTRUCTION

3. SEE ARCHITECTURAL AND/OR PLUMBING DRAWINGS FOR THE LOCATIONS OF ALL FLOOR MOUNTED DRAINS. SLOPE SLAB IN VICINITY AS REQUIRED TO PROVIDE POSITIVE DRAINAGE. 4. REFER TO DIVISION 31 SPECIFICATIONS FOR DEPTH AND PLACEMENT OF DRAINAGE FILL AND DIVISION 3 FOR VAPOR BARRIER OR RETARDER BELOW SLABS ON GRADE.

JOINT LAYOUT WITH ARCHITECTURAL FLOOR FINISH PATTERNS.

5. SEE SECTION 9/S2.1 FOR TYPICAL NEW-TO-EXISTING SLAB TRANSITION. 6. SEE SHEET S0.01 FOR GENERAL STRUCTURAL INFORMATION.

FOUNDATION PLAN - BASE BID

INDICATES FOOTING STEP PER SECTION 1/S2.1. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL. 2. () INDICATES APPROXIMATE LOCATION AND INVERT ELEVATION OF UNDERGROUND UTILITIES. COORDINATE THE LOCATION AND DEPTH OF ALL UNDERGROUND MECHANICAL, ELECTRICAL, PLUMBING, AND/OR CIVIL WORK WITH THE APPROPRIATE TRADE CONTRACTOR(S) PRIOR TO CONSTRUCTION. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. FOUNDATIONS BUILT PRIOR TO THE INSTALLATION OF UNDERGROUND UTILITIES ARE TO BE STEPPED OR DROPPED COMPLETELY BELOW THE UTILITY DEPTH PER SECTION 1/S2.1 AND SLEEVED PER SECTION 2/S2.1. WHERE UNDERGROUND UTILITIES ARE IN PLACE PRIOR TO FOUNDATION CONSTRUCTION, THEY ARE TO BE ENCASED PER SECTION 3/S2.1. SEE SECTION 4/S2.1 FOR TRENCH EXCAVATION AND UTILITY PLACEMENT REQUIREMENTS FOR WORK THAT IS I AID ADJACEPNT TO FOOTINGS

3. P(x) INDICATES CONCRETE PIER TYPE PER DETAILS ON SHEET S2.1. INDICATES EXISTING BUILDING CONSTRUCTION BASED ON ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION. EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. ARE TO BE VERIFIED PRIOR TO CONSTRUCTION OR FABRICATION OF ANY MATERIAL BY CONTRACTOR PERFORMING WORK IN EXISTING AREAS. REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. DO NOT REMOVE EXISTING LOAD-BEARING WALLS, COLUMNS, OR ANY SUCH STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. WHERE NEW STRUCTURE IS TO BE INSTALLED, PROVIDE SHORING AND BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE AND PROPERLY BRACED.

REQUIREMENTS FOR WORK THAT IS LAID ADJACENT TO FOOTINGS.

5. DESIGN SOIL BEARING PRESSURE = ????? PSF BASED ON GEOTECHNICAL EXPLORATION REPORT BY ????? DATED ????? REFERENCE THIS REPORT FOR ANY REQUIRED SOIL REMEDIATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP THE PLANNED BOTTOM OF FOOTING ELEVATION, PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES

BOTTOM OF FOOTINGS ARE TO BE AT LEAST ?????-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.

KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.

ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.

9. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 5/S2.1. 10. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF VERTICAL MASONRY WALL REINFORCING AS SHOWN ON THE WALL AND/OR FRAMING PLANS. WHERE VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (DOOR, WINDOW, LOUVER, ETC.) PROVIDE ONE ADDITIONAL DOWEL AT EACH JAMB FOR EACH 6'-0" OF OPENING WIDTH. SEE SECTION 6/S2.1 FOR DOWEL OF A DESTRUCTION OF THE PROPERTY AND SECTION OF THE PROPERTY OF THE

PLACEMENT AND SCHEDULE ON SHEET S0.1 FOR LENGTH OF LAP SPLICES. 11. SEE ELEVATION A/S4.1 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION.

12. SEE SECTION 7/S2.1 FOR TYPICAL OUTDOOR MECHANICAL EQUIPMENT PADS. 13. SEE SHEET S4.2 FOR COLUMN SCHEDULE AND DETAILS. 14. SEE SHEET S0.1 FOR GENERAL STRUCTURAL INFORMATION.

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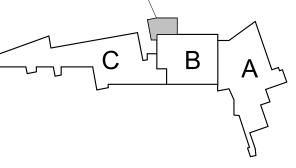
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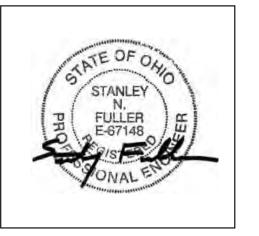
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ADDITION -



KEY PLAN

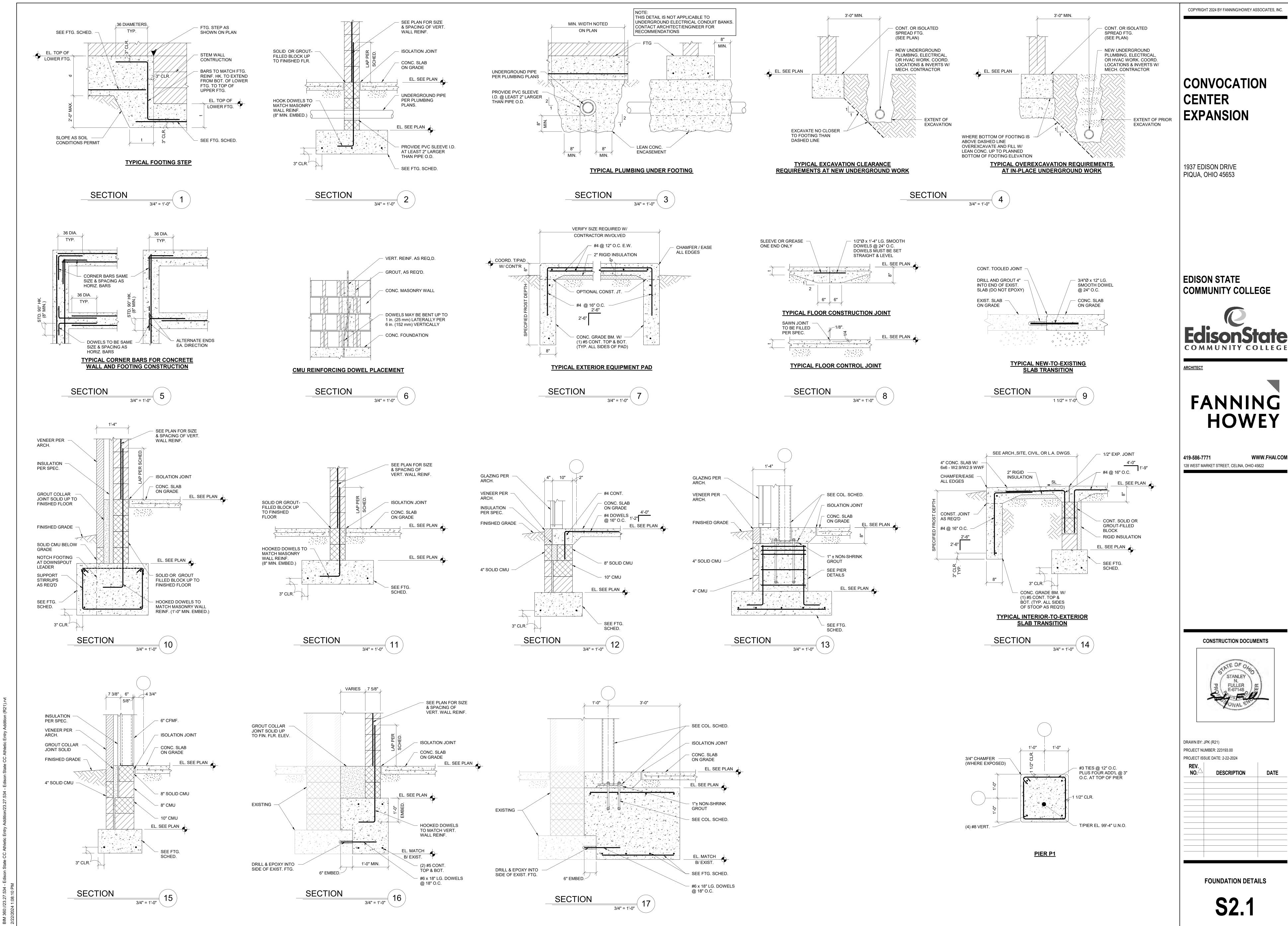
CONSTRUCTION DOCUMENTS



DRAWN BY: JPK (R21) PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

NO.	DESCRIPTION	DATE

FOUNDATION PLANS





ROOF FRAMING PLAN - ALTERNATE

MASONRY WALL REINFORCING SCHEDULE					
MARK	VERTICAL REINFORCING	REMARKS			
W548	#5 @ 48" O.C.	-			
W532	#5 @ 32" O.C.	-			

- ALL BARS TO BE CENTERED IN CELL UNLESS NOTED IN SCHEDULE. COORDINATE POSITION WITH STRUCTURAL DETAILS.
- 2. PROVIDE ADDITIONAL BARS AT JAMBS OF OPENINGS AS INDICATED IN THE TYPICAL REINFORCED MASONRY WALL ELEVATION. PROVIDE
- 3. LAP ALL BARS PER STANDARD MASONRY REINFORCING LAP SCHEDULE ON GENERAL STRUCTURAL SHEETS.

ADDITIONAL BARS AT SPECIFIC LOCATIONS AS INDICATED ON PLAN.

T/ STL. EL. 114'-2 1/2" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" T/ STL. EL. 115'-0 3/4" B/ STL. EL. 110'-2" 12'-7 1/4"

52'-0"

ROOF FRAMING PLAN - BASE BID 3/16" = 1'-0"

		ROOF FRA	MING NOTES
1.	DESIGN LIVE/S	NOW LOADS:	
		ROOF LIVE ROOF SNOW WIND (NET UPLIFT)	20 PSF 22 PSF + DRIFT -10 PSF
2.	ROOF CONSTR	UCTION:	
		1-1/2" x 22 GA WIDE RIB METAL ATTACHMENT TO SUPPORTING	DECK. SEE SECTION 1/S4.2 FOR TYPICAL S STRUCTURE.
3.		APPROPRIATE TRADE CONTRA	OORDINATE EXACT SIZE AND LOCATION WITH TH ACTOR(S). NOT ALL OPENINGS ARE SHOWN ON T E SECTION 2/S4.2 FOR FRAMING OF ALL OPENING: 12" SQUARE OR DIAMETER.
4.	T	INDICATES TAG END OF JOIST. SCHEDULE AND DIAGRAM.	SEE SECTION 4/S4.2 FOR SPECIAL JOIST LOADIN
5.	5 1/2	INDICATES NON-STANDARD JC ADDITIONAL INFORMATION.	DIST SEAT DEPTH. SEE SECTIONS AND DETAILS F
6.	7	INDICATES SNOW DRIFT LOAD SHOWN UNLESS NOTED OR SO	ON ROOF. JOISTS HAVE BEEN SIZED FOR THE LOCHEDULED OTHERWISE.
7.	WT#	WEIGHT, LOCATION, AND OPEI CONTRACTOR. TOLERANCE FO DIRECTION FROM WHERE SHO	SUPPORTED ON ROOF. COORDINATE FINAL SIZE NING REQUIREMENTS WITH MECHANICAL OR LOCATION OF ACTUAL UNIT IS 2 FEET IN ANY OWN ON THE STRUCTURAL DRAWINGS. PROVIDE N 3/S4.2 AND REINFORCE JOISTS AT SUPPORT 1.2.
8.	7 /// 3	DRAWINGS AND LIMITED FIELD ELEVATIONS, ETC. ARE TO BE FABRICATION OF ANY MATERIA AREAS. REPORT ANY DISCREMENTO EXISTING LOAD-BEAR WITHOUT THE PRIOR APPROV. TO BE INSTALLED, PROVIDE SHOWS AND THE	CONSTRUCTION BASED ON ORIGINAL BUILDING INVESTIGATION. EXISTING CONDITIONS, DIMENS FIELD VERIFIED PRIOR TO CONSTRUCTION OR ALBY CONTRACTOR PERFORMING WORK IN EXISTANCIES TO ARCHITECT IMMEDIATELY. DO NOT RING WALLS, COLUMNS, OR ANY SUCH STRUCTURAL OF THE ARCHITECT. WHERE NEW STRUCTURAL OF THE ARCHITECT. WHERE NEW STRUCTURAL OF THE ARCHITECT. WHERE NEW STRUCTURE ALORING AND BRACING AS REQUIRED TO PROPER RUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE
9.	TOP OF STRUC	TURAL STEEL, JOIST BEARING,	OR TRUSS BEARING ELEVATION NOTED ON PLAN

MASONRY WALL NOTES

ML(d) INDICATES MASONRY BOND BEAM LINTEL PER SECTION 1/S4.1. USE STANDARD SCHEDULED BOND BEAM LINTELS FOR ALL EXPOSED ARCHITECTURAL OPENINGS IN NON-LOADBEARING MASONRY WALLS UNLESS NOTED OTHERWISE.

5. NOT ALL LINTELS ARE SHOWN ON THESE PLANS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, WIDTH, HEIGHT, AND ELEVATION OF ALL EXPOSED OPENINGS. COORDINATE LOCATION, WIDTH, HEIGHT, AND ELEVATION OF ALL CONCEALED OPENINGS WITH APPROPRIATE TRADE CONTRACTOR. LINTELS SHOWN OFFSET FROM CENTERLINE OF WALL TYPICALLY INDICATE OPENINGS FOR MECHANICAL, ELECTRICAL, PLUMBING, AND/OR TECHNOLOGY WORK.

6. LINTELS ARE NOT REQUIRED FOR OPENINGS IN CMU WALLS LESS THAN 16" WIDE AND IN BRICK VENEERS LESS THAN 8" WIDE. MASONRY CONTRACTOR IS TO COORDINATE ALL OPENING REQUIREMENTS WITH APPROPRIATE TRADE CONTRACTOR.

CORNER BARS AT ALL MASONRY BOND BEAM INTERSECTIONS PER DETAIL 4/S4.1.

10. SEE SHEET S0.1 FOR GENERAL STRUCTURAL INFORMATION.

SEE ELEVATION A/S4.1 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION. PROVIDE

PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR

PROVIDE #3 VERTICAL REINFORCING BARS AT 72" O.C. FOR ALL PARTIAL-HEIGHT KNEE WALLS AND ALL NON-LOADBEARING MASONRY PARTITION WALLS GREATER THAN 14'-0" TALL UNLESS SHOWN OR NOTED OTHERWISE. VERTICAL REINFORCING IS NOT TYPICALLY REQUIRED FOR NON-LOADBEARING PARTITION WALLS UNDER 14'-0" TALL. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL

INDICATES VENEER LINTEL PER SECTION 2/S4.1. USE STANDARD SCHEDULED VENEER LINTELS FOR ALL OPENINGS IN BRICK OR MASONRY VENEERS UNLESS NOTED OTHERWISE.

INDICATES MASONRY WALL BRACE PER SECTION 3/S4.1. WALL BRACES ARE TO BE LOCATED AS SHOWN AT A SPACING NOT TO EXCEED 18x THE NOMINAL WALL WIDTH (e.g. 12'-0" O.C. FOR 8" CMU) FOR ALL INTERIOR NON-LOADBEARING MASONRY PARTITIONS WHERE SAME-HEIGHT CROSSWALLS DO NOT PROVIDE LATERAL SUPPORT AT A CLOSER SPACING. WALL BRACES ARE ALSO TO BE LOCATED AT THE FREE ENDS OF WALLS WHERE SAME-HEIGHT CROSSWALLS DO NOT PROVIDE LATERAL SUPPORT WITHIN 6x THE NOMINAL WALL WIDTH (e.g. 4'.0" FOR 8" CMU)

INDICATES MASONRY WALL REINFORCING TYPE PER SCHEDULE. ALL REINFORCING IS TO RUN FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE SPACING OF VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (DOOR, WINDOW, LOUVER, ETC.) PROVIDE ONE FULL-HEIGHT REINFORCING BAR AT EACH JAMB FOR EACH 6'-0" OF OPENING WIDTH. SEE SCHEDULE ON SHEET SO.1 FOR LENGTH OF LAP SDIVES

- REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
- 10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
- 11. REINFORCE JOISTS AT CONCENTRATED LOADS PER SECTION 5/S4.2.
- 12. SEE SHEET S4.2 FOR COLUMN SCHEDULE AND DETAILS.
- 13. ALL JOISTS ARE TO BE DESIGNED FOR NET UPLIFT AS DEFINED IN DESIGN LOADS ABOVE. PROVIDE BRIDGING IN ADDITION TO MINIMUM SJI REQUIREMENTS IF NEEDED. 14. SEE SHEET S0.1 FOR GENERAL STRUCTURAL INFORMATION.

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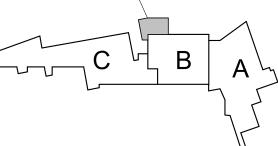
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ADDITION -



KEY PLAN

CONSTRUCTION DOCUMENTS

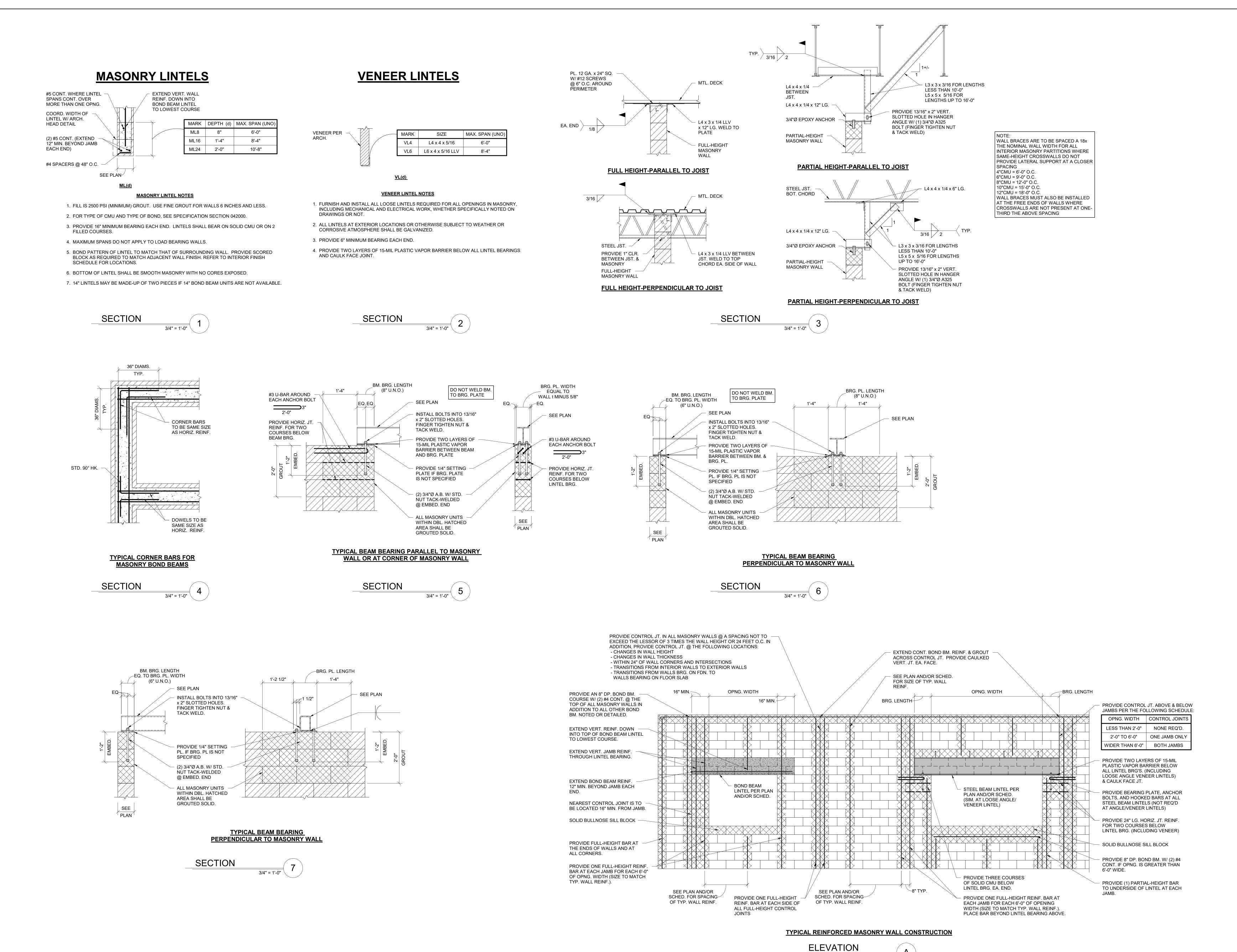


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ROOF FRAMING PLANS

MASONRY WALL REINFORCING SCHEDULE						
MARK	VERTICAL REINFORCING	REMARKS				
W548	#5 @ 48" O.C.	-				
W532	#5 @ 32" O.C.					



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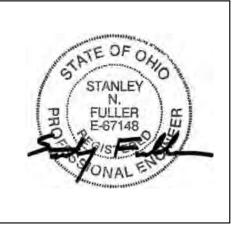


ARCHITECT



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CONSTRUCTION DOCUMENTS

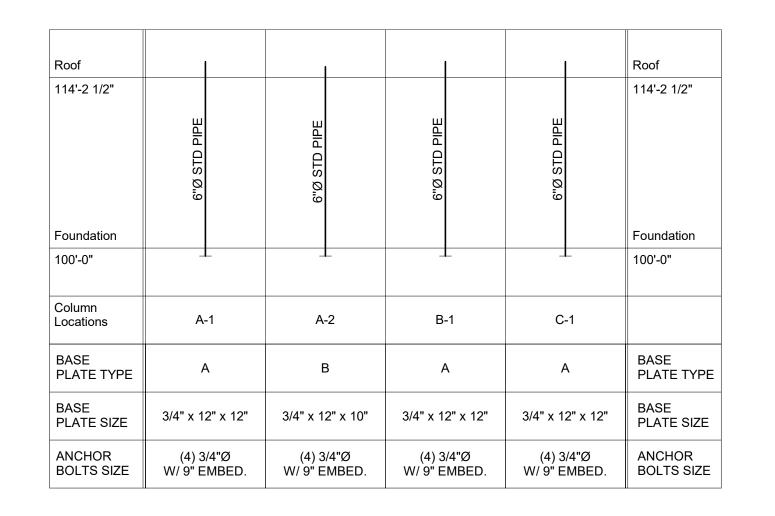


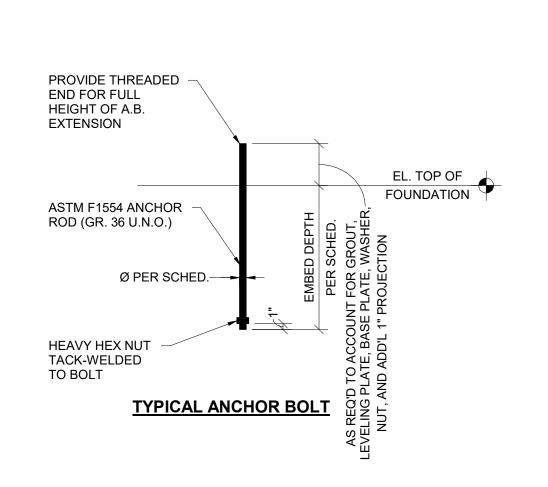
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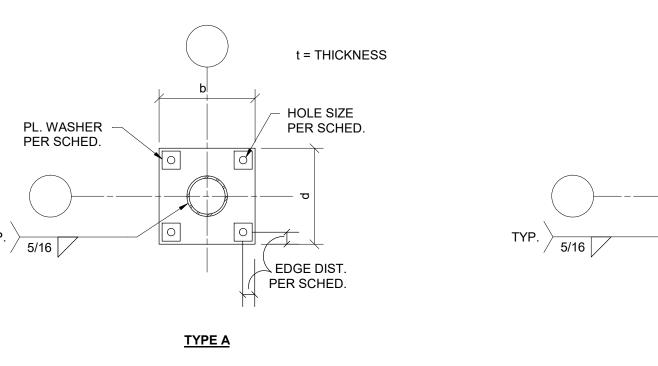
WALL AND LINTEL DETAILS

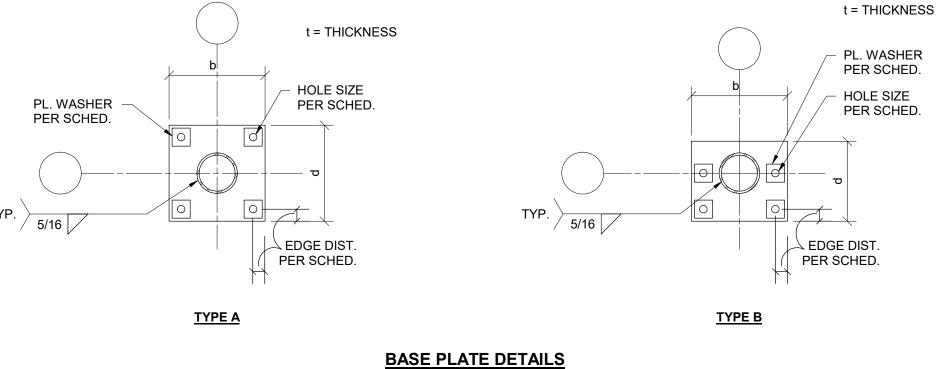
S4.1

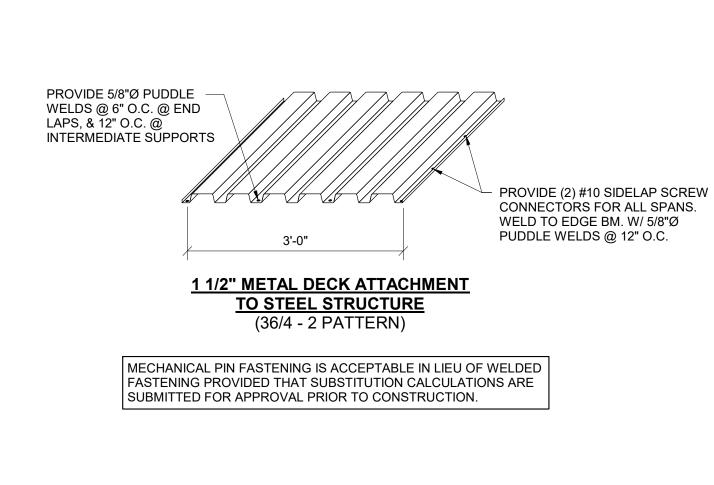




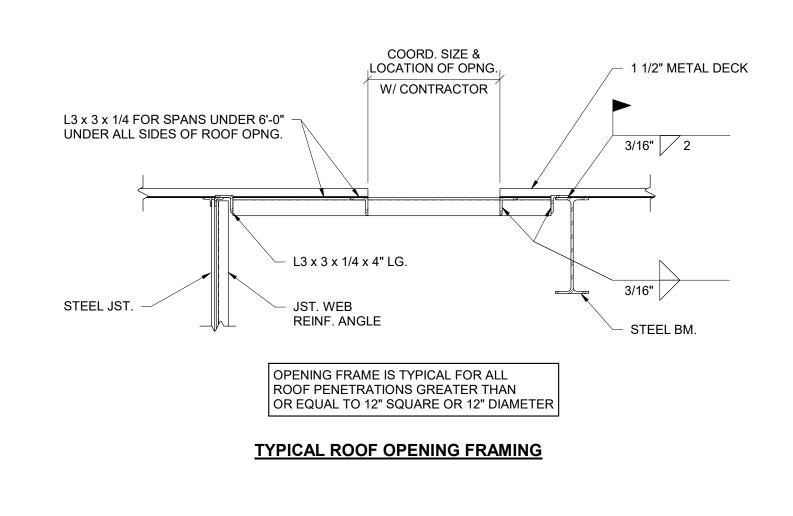
BASE PLATE DETAILING SCHEDULE							
BOLT SIZE	BASE PLATE HOLE SIZE	EDGE DISTANCE	PLATE WASHER				
3/4"Ø	1-5/16"Ø	1-1/2"	1/4" x 2-1/2" SQ.				







SECTION

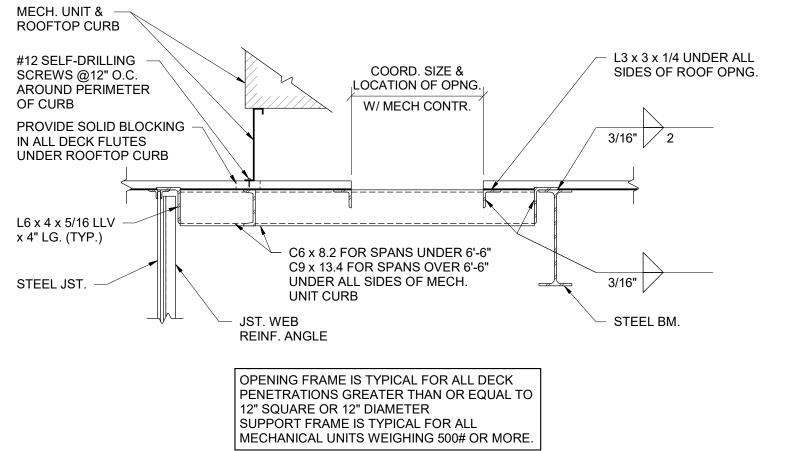


3/4" = 1'-0"

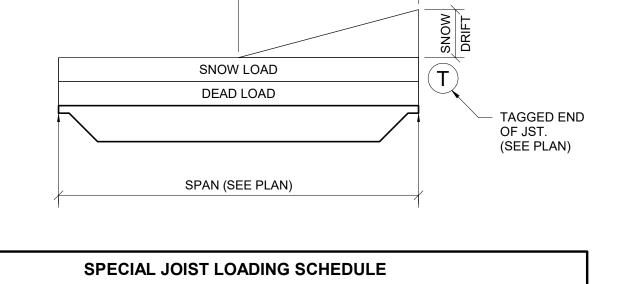
SECTION

L2 x 2 x 3/16

L3 x 3 x 1/4



3/4" = 1'-0"



DRIFT LENGTH

TYPICAL MECHANICAL UNIT SUPPOR
AND ROOF OPENING FRAMING

SECTION

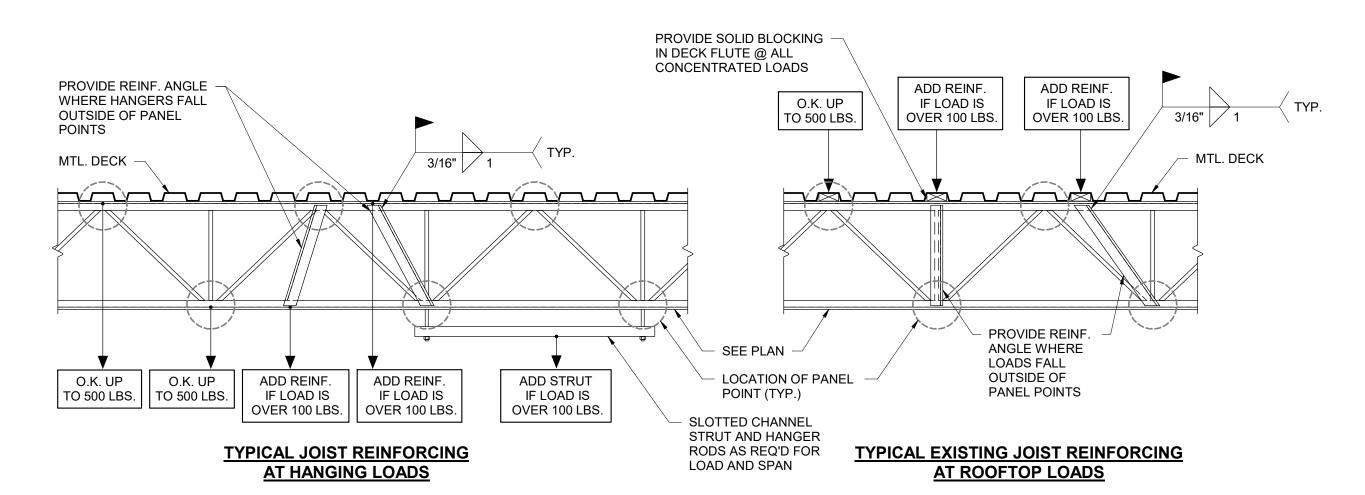




DEAD UNIFORM SNOW SNOW DRIFT

SP1 100

100 200 12'-0"



JOIST REINFORCING NOTES

3. REINFORCING ANGLE IS ONLY REQUIRED ON THE SIDE OF THE JOIST WHERE THE 1. REINFORCING IS TYPICAL FOR ALL JOISTS SUPPORTING LOAD IN EXCESS OF 100 LBS. BETWEEN TOP OR BOTTOM CHORD PANEL POINTS. MAXIMUM CONCENTRATED LOAD HANGER CLIP HARDWARE IS INSTALLED. FOR ROOFTOP LOADS, THE REINFORCING ANGLE MAY BE INSTALLED ON EITHER SIDE OF THE JOIST BETWEEN PANEL POINTS SHALL NOT EXCEED 500 LBS.

48" TO 72"

4. SIZE OF REINFORCING ANGLE IS AS FOLLOWS: 2. IT IS THE MECHANICAL CONTRACTOR'S SOLE RESPONSIBILITY TO CALCULATE HANGER LOADS ON A CASE-BY-CASE BASIS AND INFORM THE GENERAL CONTRACTOR WHERE ANGLE SIZE L1 1/4 x 1 1/4 x 3/16 JOIST REINFORCEMENT IS REQUIRED. <u>JOIST DEPTH</u> LESS THAN 24" 24" TO 48"



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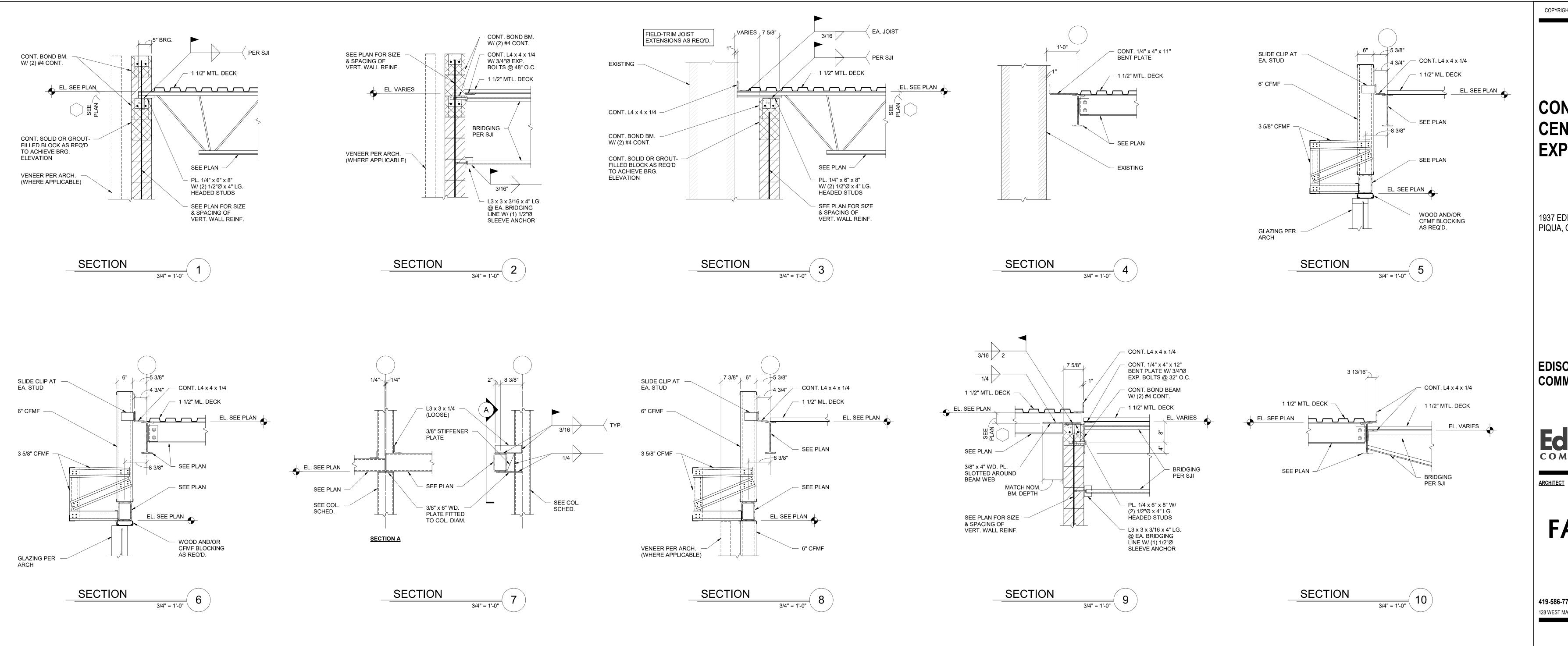
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COLUMN SCHEDULE AND FRAMING DETAILS



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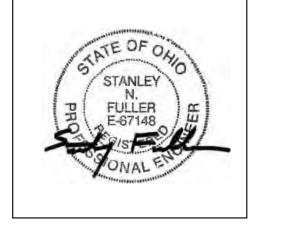
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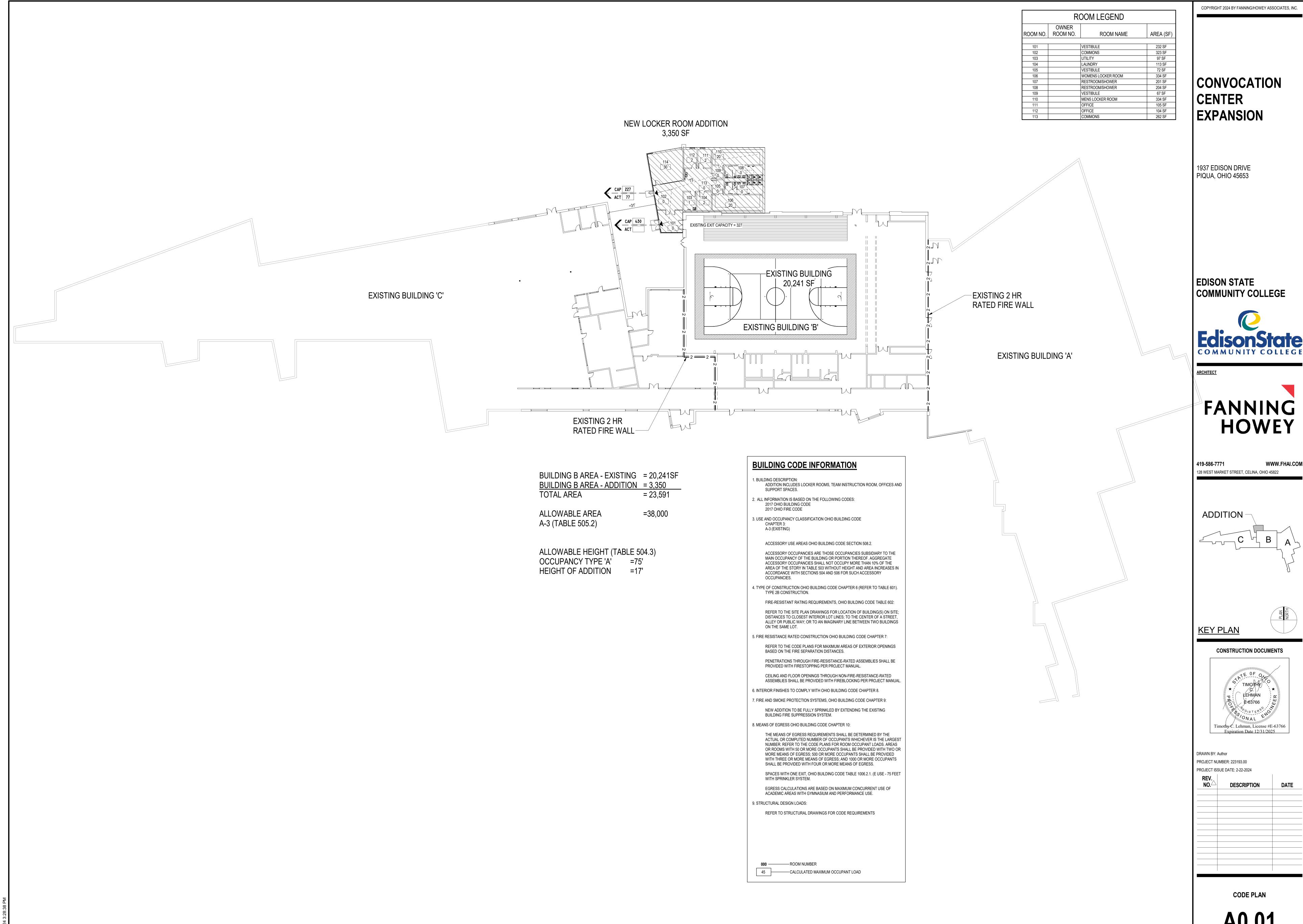
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FRAMING DETAILS

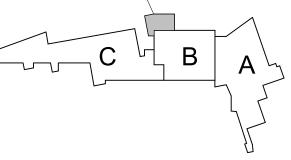


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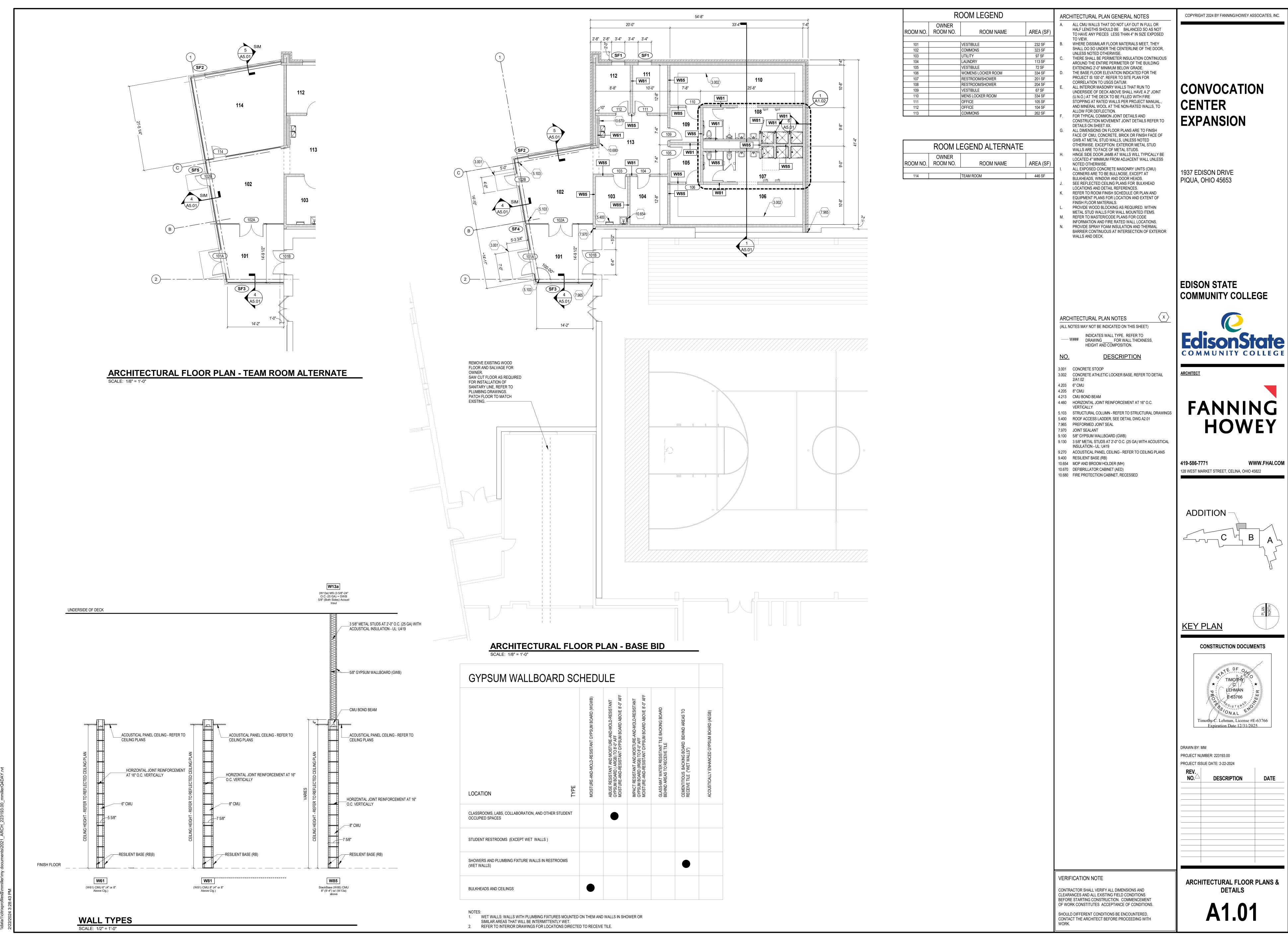




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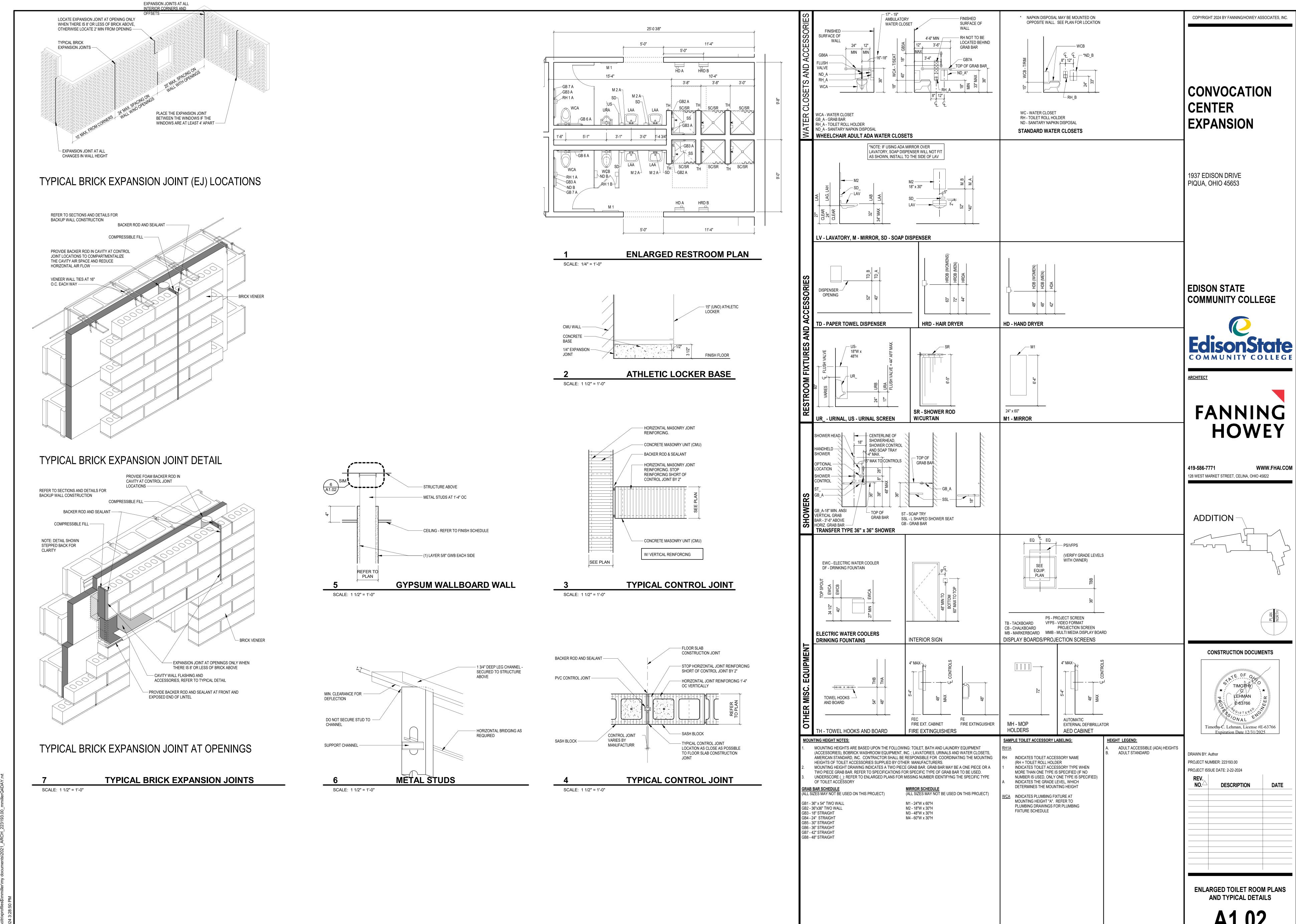


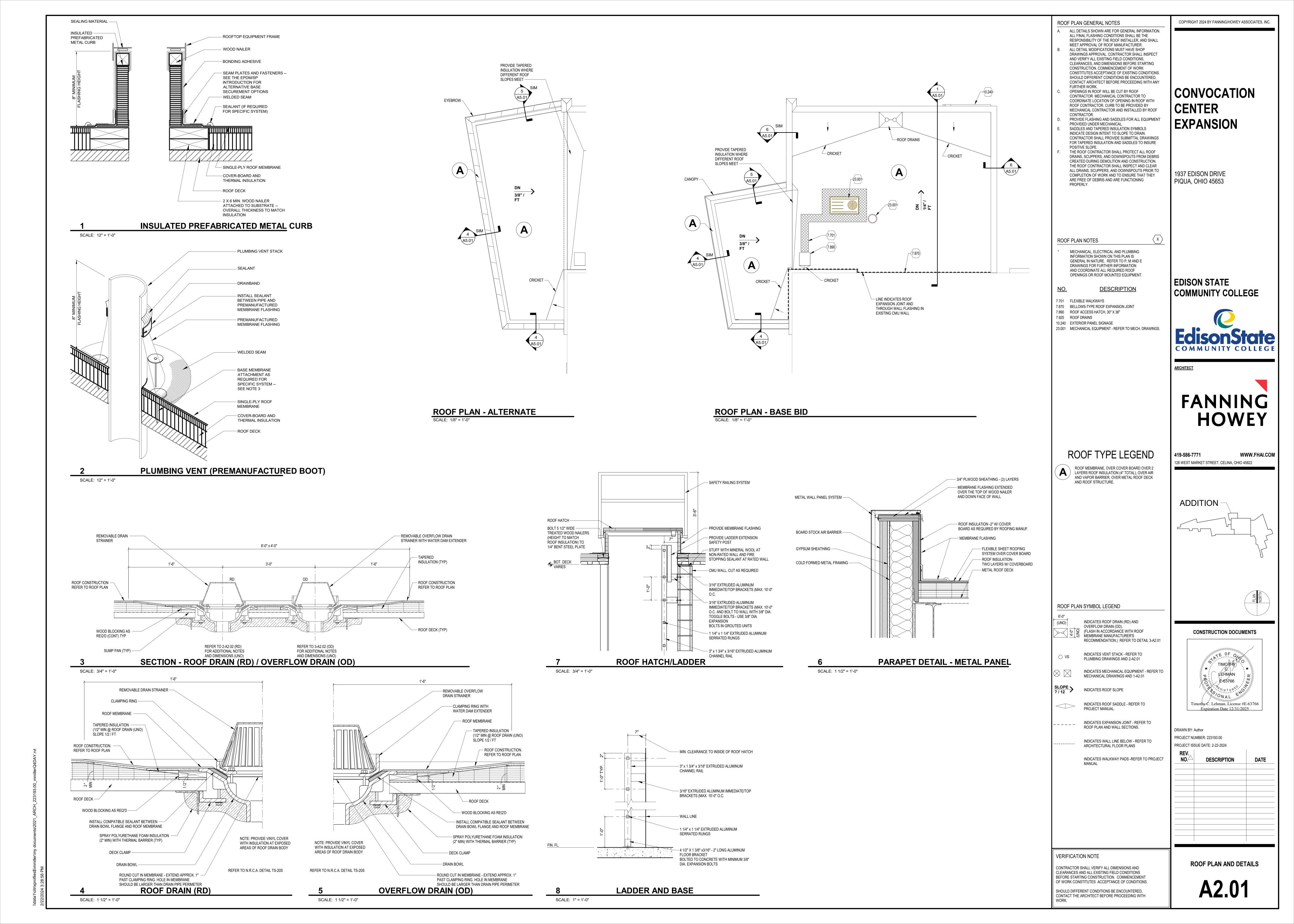
DESCRIPTION	DATE
	DESCRIPTION

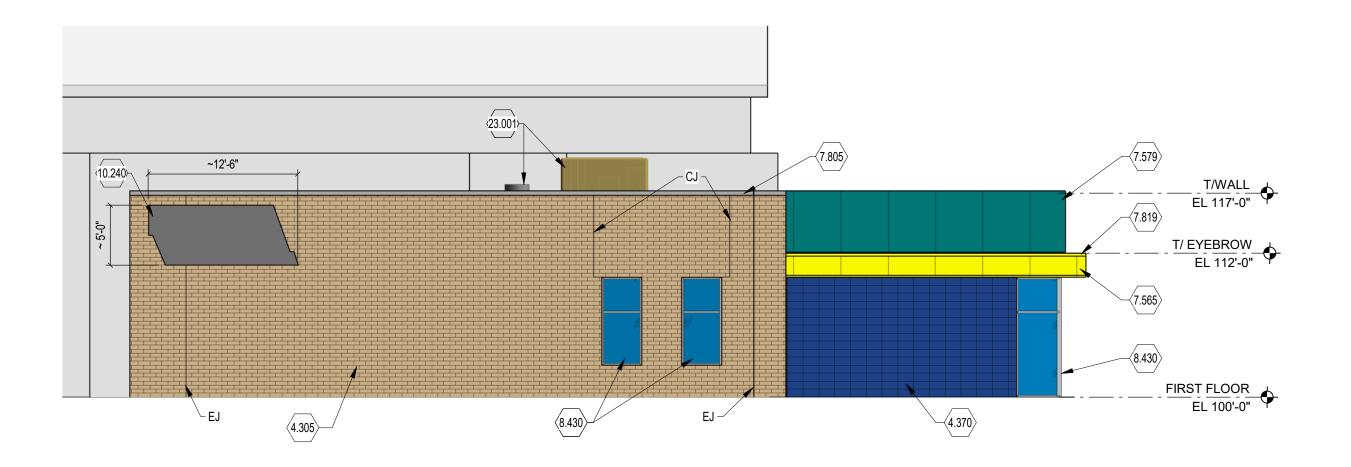




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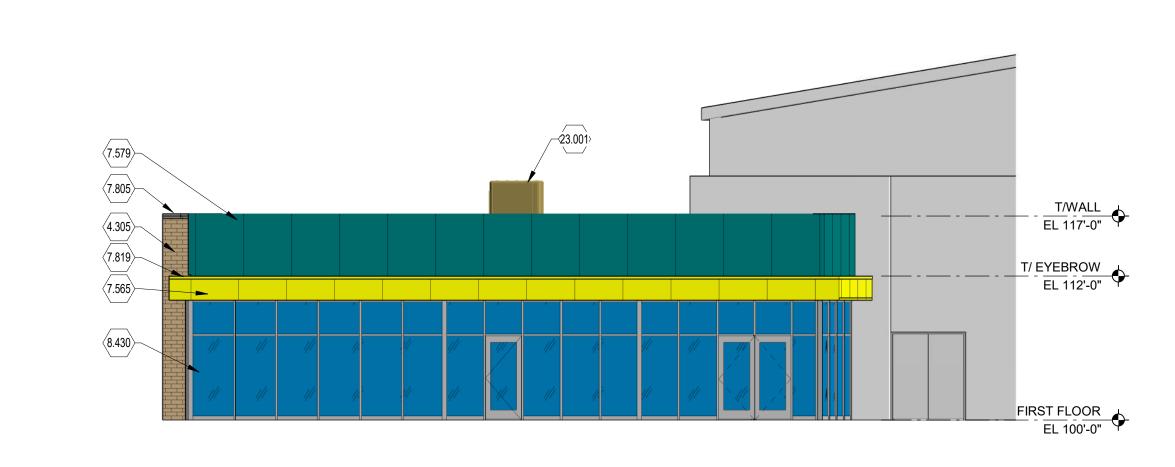




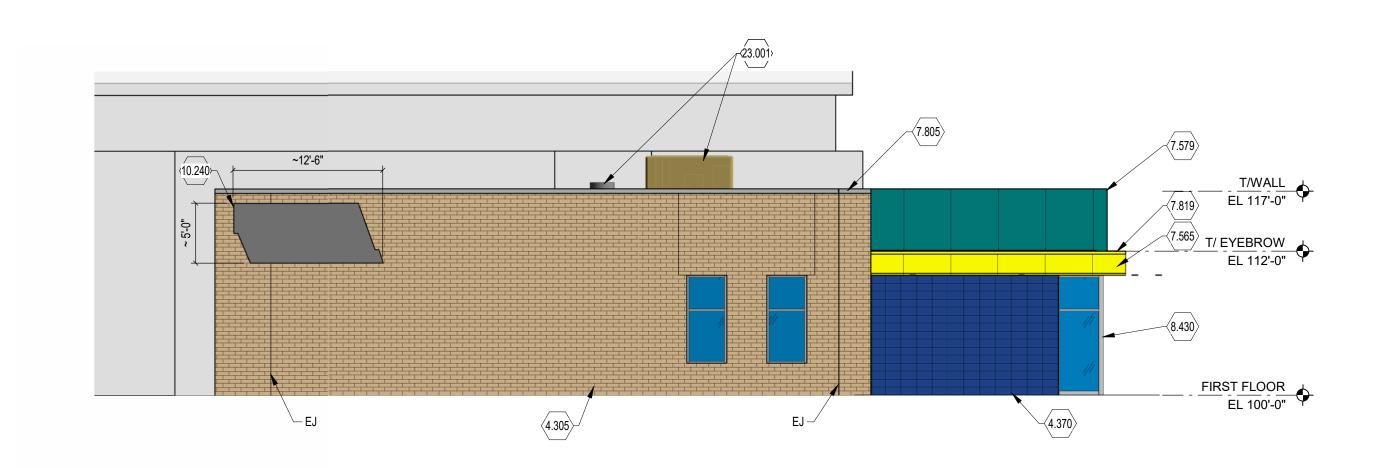


NORTH ELEVATION - TEAM ROOM ALTERNATE

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



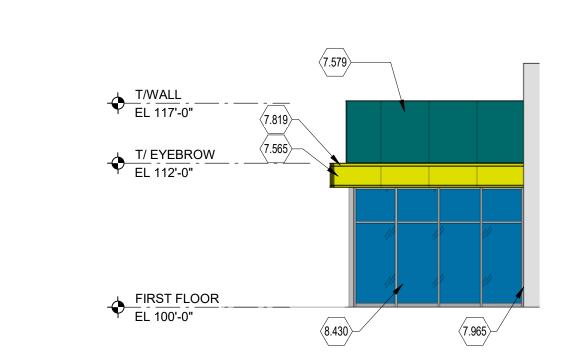
WEST ELEVATION - TEAM ROOM ALTERNATE SCALE: 1/8" = 1'-0"



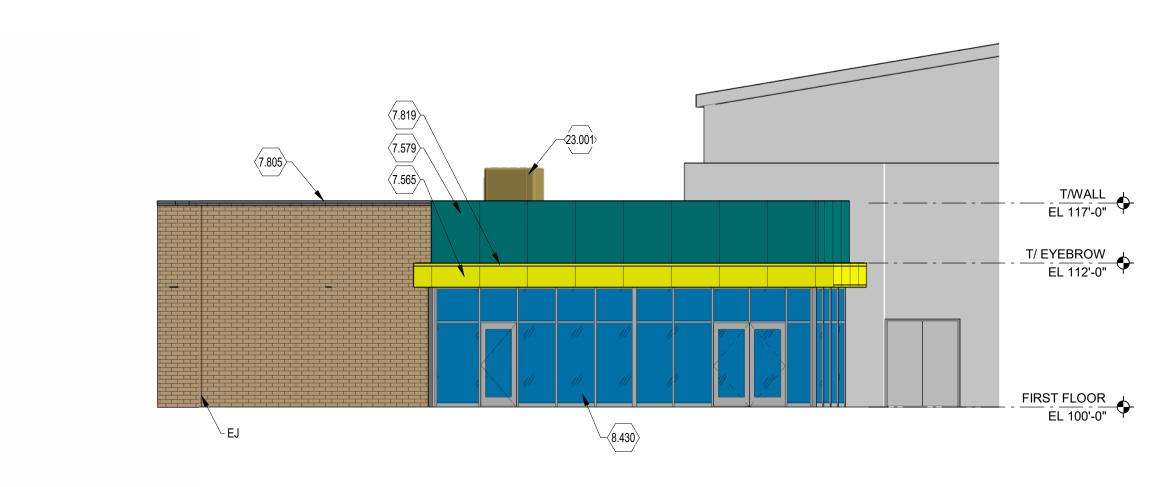
NORTH ELEVATION - BASE BID

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

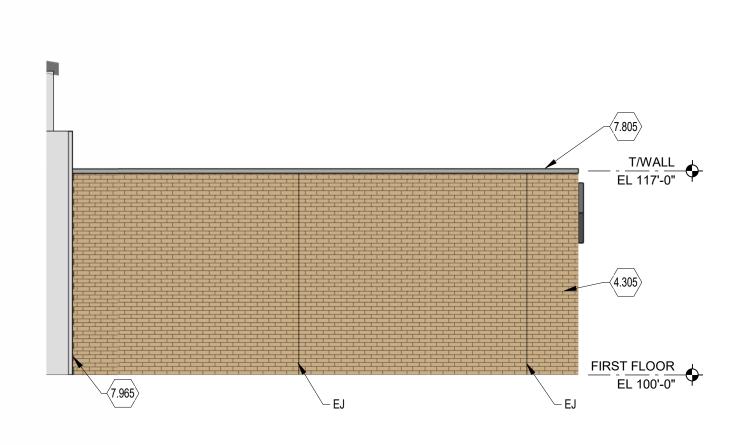
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION - BASE BID & TEAM ROOM



WEST ELEVATION- BASE BID SCALE: 1/8" = 1'-0"



EAST ELEVATION - BASE BID & TEAM ROOM SCALE: 1/8" = 1'-0"

ELEVATION GENERAL NOTES

DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS.

REFER TO THE ELECTRICAL AND TECHNOLOGY

COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

DESCRIPTION

- 4.305 UTILITY SIZE FACE BRICK, MATCH EXISTING 4.370 GLAZED STRUCTURAL-CLAY FACING TILE, 'ELGIN - BUTLER' GLAZED #2200A, COLBALT BLUE, STACKED BOND. 7.565 METAL WALL PANEL - COLOR 'A'
- 7.579 METAL WALL PANEL COLOR 'B' 7.805 METAL COPING
- 7.819 PREFORMED METAL DRIP EDGE MATCH PANEL COLOR 7.965 PREFORMED JOINT SEAL
- 8.430 STOREFRONT FRAMING 10.240 EXTERIOR PANEL SIGNAGE

23.001 MECHANICAL EQUIPMENT - REFER TO MECH. DRAWINGS.

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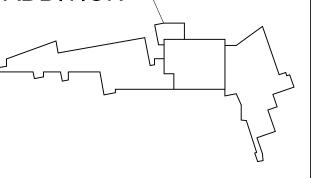
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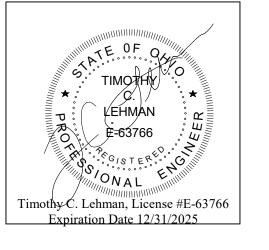


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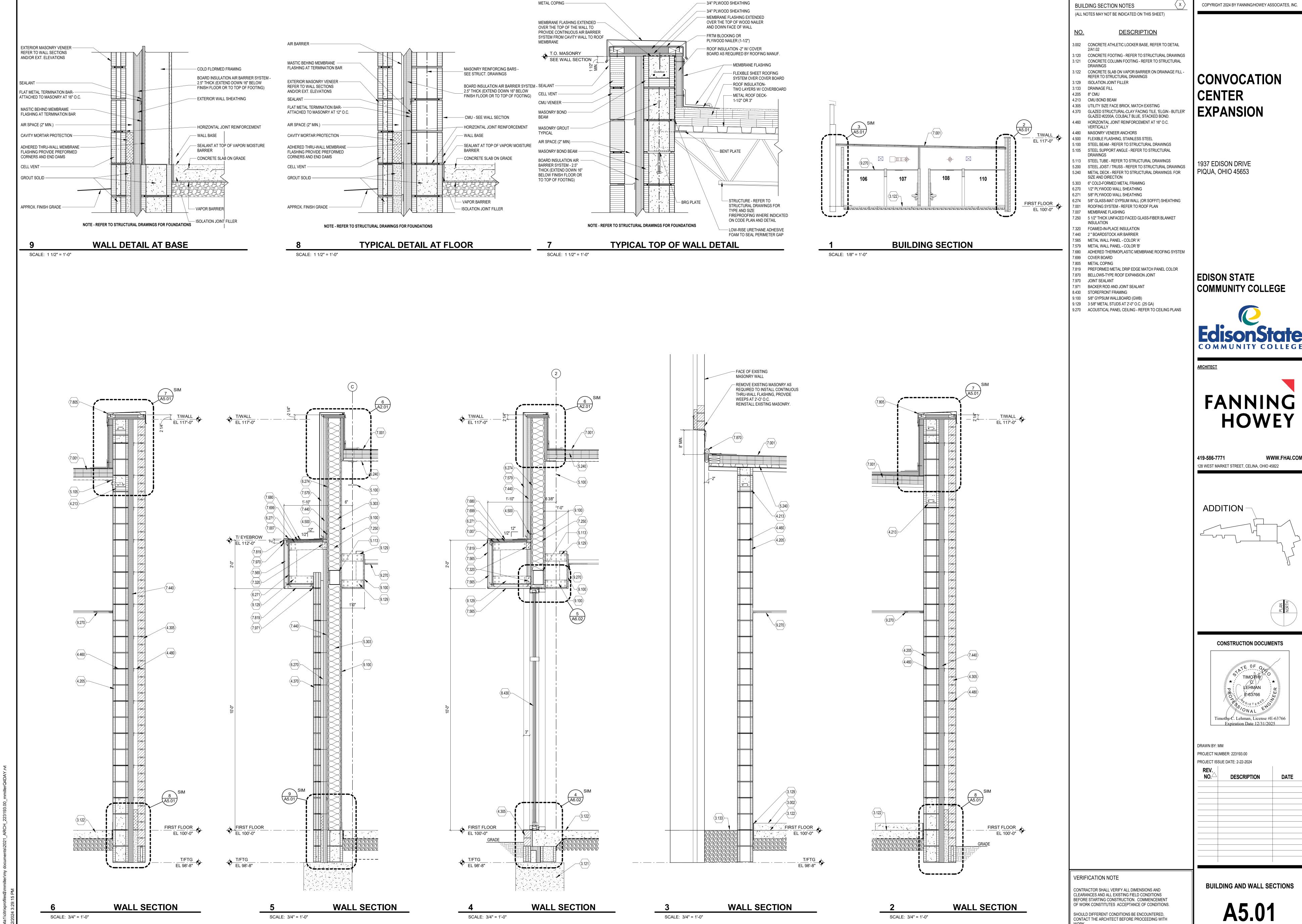


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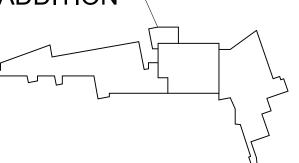
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH **BUILDING ELEVATIONS**



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DECORUITION	DAIL

					DO	OR AND	FRAME	SCHE	DULE					
	DOORS				FRAI	ME				HARDWARE				
DOOR			FRAME	FRAME			DETAILS		FIRE RATING IN		KEYSIDE	STC		DOOR
NUMBER	DOOR SIZE (WxH)	DOOR TYPE	MATERIAL	ELEVATION	JAMB DEPTH	HEAD	JAMB	SILL	MINS.	SET NO.	ROOM	RATING	REMARKS	NUMBER
101A	PR 3'-0" x 7'-0"	FGAL	AL		4 1/2"			1/A6.01		10	EXT			101A
101B	PR 3'-0" x 7'-2"	N WD	НМ	S1	5 3/4"	EXIST	EXIST			08	EXT		NEW DOORS IN EXISTING FRAME, CARD READER	101B
102A	PR 3'-0" x 7'-0"	FGAL	AL	SF6	4 1/2"	-	-	-		09	EXT		CARD READER	102A
102B	3'-0" x 7'-0"	FGAL	AL	SEE PLAN	4 1/2"					07	EXT		EXIT ONLY	102B
103	3'-0" x 7'-2"	F WD	HM	S1	5 3/4"	2/A6.01	3/A6.01	-		03	103			103
104	3'-0" x 7'-2"	F WD	HM	S1	5 3/4"	2/A6.01	3/A6.01	-		02	104			104
105	3'-0" x 7'-2"	F WD	НМ	S1	5 3/4"	2/A6.01	3/A6.01	-		05	105		CARD READER	105
106	3'-0" x 7'-2"	F WD	НМ	S1	5 3/4"	2/A6.01	3/A6.01	-		01	105			106
109	3'-0" x 7'-2"	F WD	НМ	S1	5 3/4"	2/A6.01	3/A6.01	-		05	109		CARD READER	109
110	3'-0" x 7'-2"	F WD	НМ	S1	5 3/4"	2/A6.01	3/A6.01	-		01	109			110
111	3'-0" x 7'-2"	N WD	НМ	S1	5 3/4"	2/A6.01	3/A6.01	-		04	111		CARD READER	111
112	3'-0" x 7'-2"	N WD	НМ	S1	5 3/4"	2/A6.01	3/A6.01	-		04	112		CARD READER	112
114	3'-0" x 7'-0"	FGAL	AL	SF7	4 1/2"	4/A6.01	-	-		06	102		CARD READER	114

SEE SCHEDULE SEE SCHEDULE		VOOD DOORS	ALUMINUM DOORS
	SEE SCHEDULE	PANIC PANIC SCHEDULE	3'-4" PANIC

— PROVIDE BRACING AS

- 5/8" GYPSUM WALLBOARD

- 5/8" GYPSUM WALLBOARD

— ALUMINUM STOREFRONT

— CAULK BOTH SIDES

EQ.

STUD-HEAD (SF)

REQUIRED

> 3 5/8" METAL STUDS

— METAL TRACK

CEILING, REFER TO ——/ CEILING PLAN

SCALE: 1 1/2" = 1'-0"

5/8" GYPSUM WALLBOARD -

CORNER BEAD —

MASONRY ANCHORS

AT 1'-4" O.C.

- BULLNOSE

SCALE: 1 1/2" = 1'-0"

— CAULK EACH SIDE

— HOLLOW METAL FRAME

JAMB DETAIL

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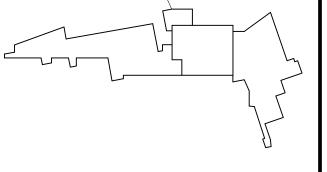
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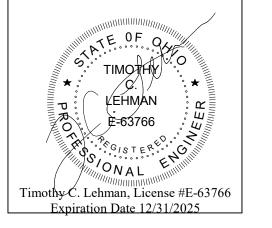
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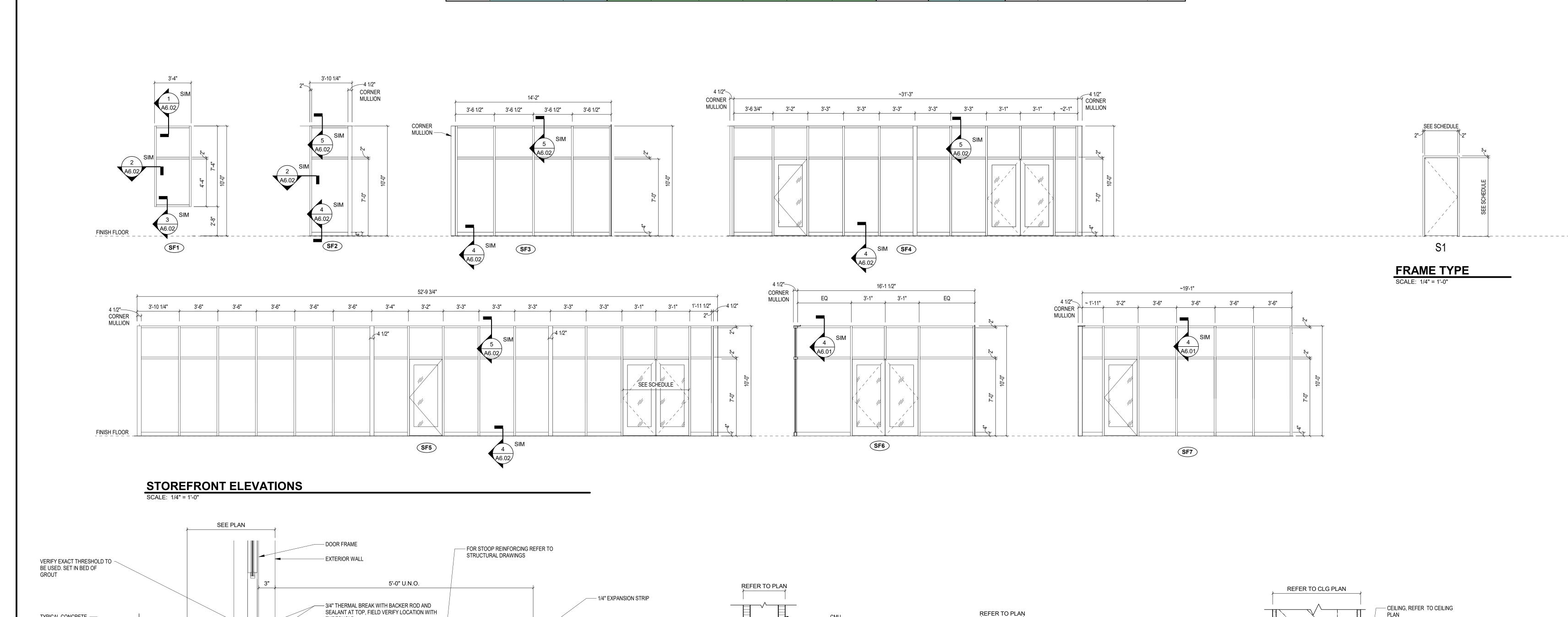
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PROJECT IS	PROJECT ISSUE DATE: 2-22-2024					
REV. NO. DESCRIPTION						

DRAWN BY: Author

5200 1411 11011	-,

DOOR SCHEDULE AND DETAILS

A6.01	
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CONCRETE WALK VERIFY WITH SITE DRAWINGS

- FOUNDATION AROUND

STOOP - REFER TO STRUCTURAL DRAWINGS

- CMU LINTEL, REFER TO

- CAULK EACH SIDE

- FRAME BEYOND

SCALE: 1 1/2" = 1'-0"

— HOLLOW METAL FRAME

HEAD DETAIL

STRUCTURAL DRAWINGS

TYPICAL CONCRETE

DRAINAGE FILL W/ —

FOUNDATION, REFER TO STRUCTURAL

SCALE: 1 1/2" = 1'-0"

THRESHOLD AND STOOP

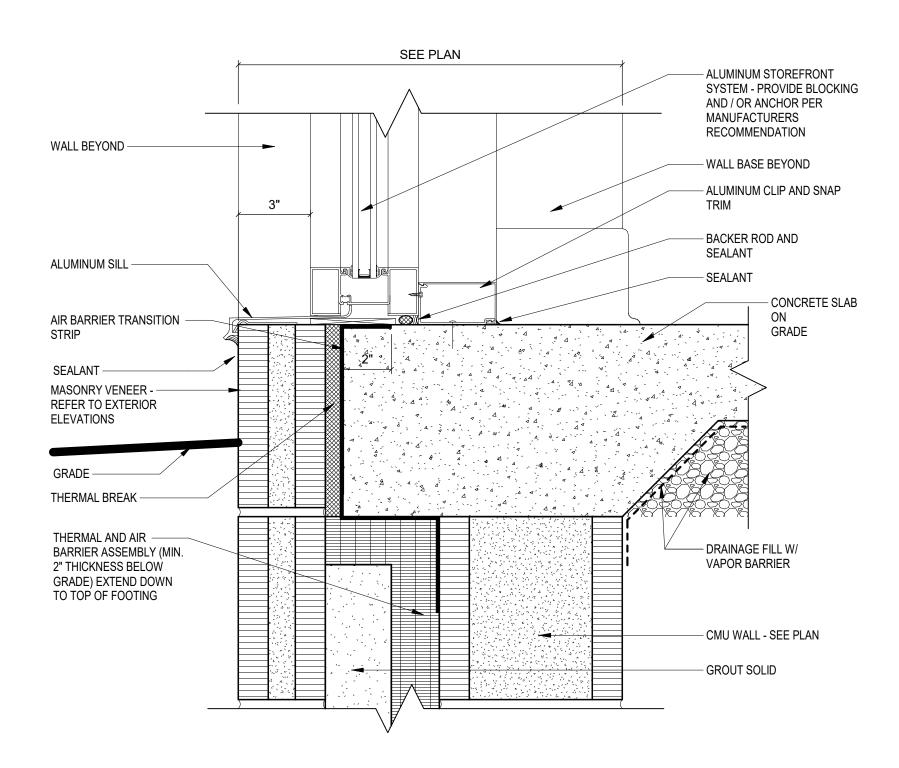
VAPOR BARRIER

DRAWINGS —

GROUT SOLID -

FLOOR SLAB

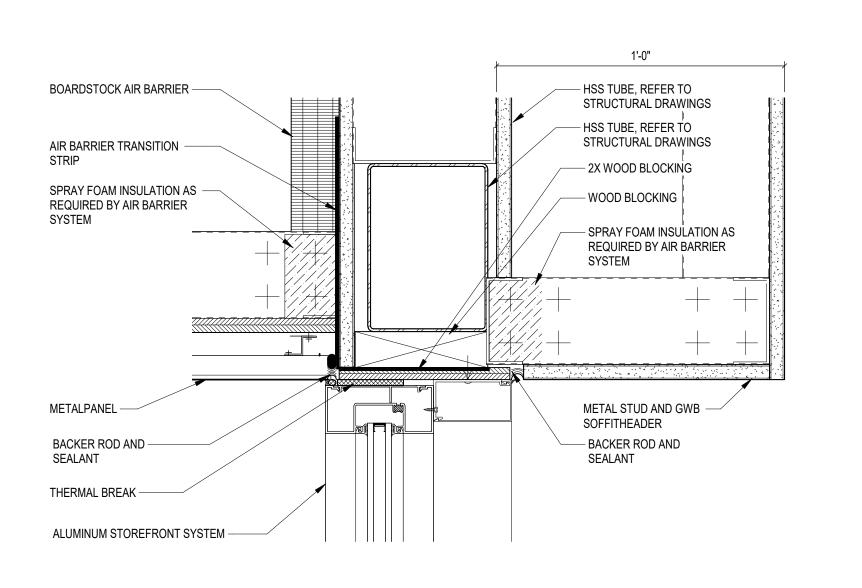
THRESHOLD



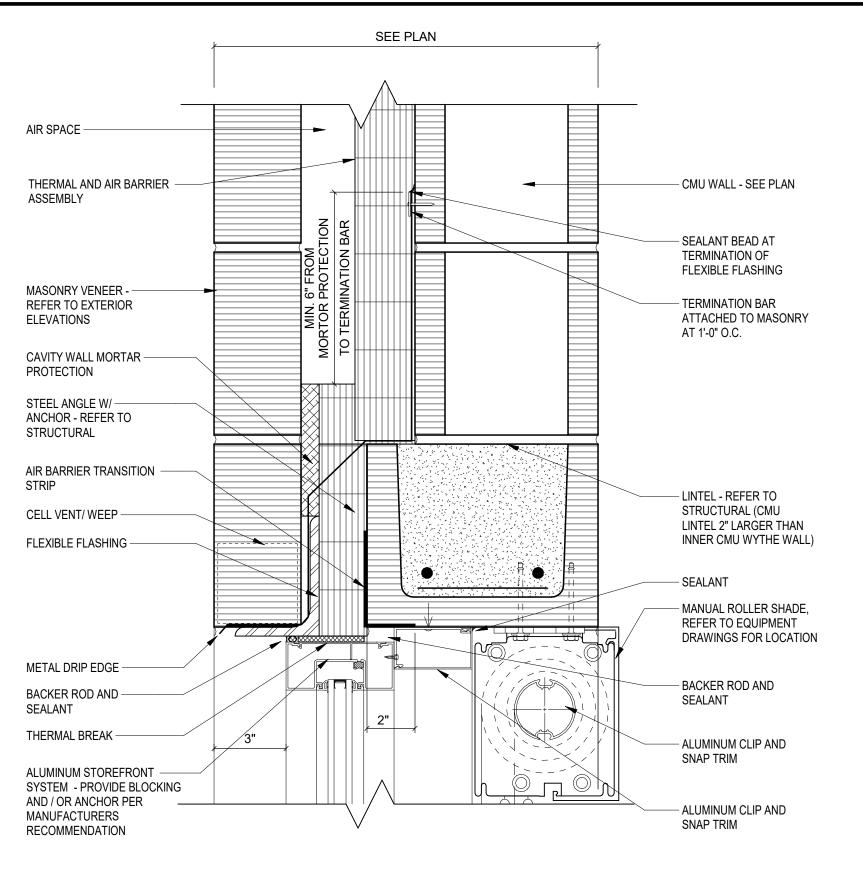
SILL - STOREFRONT

SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"

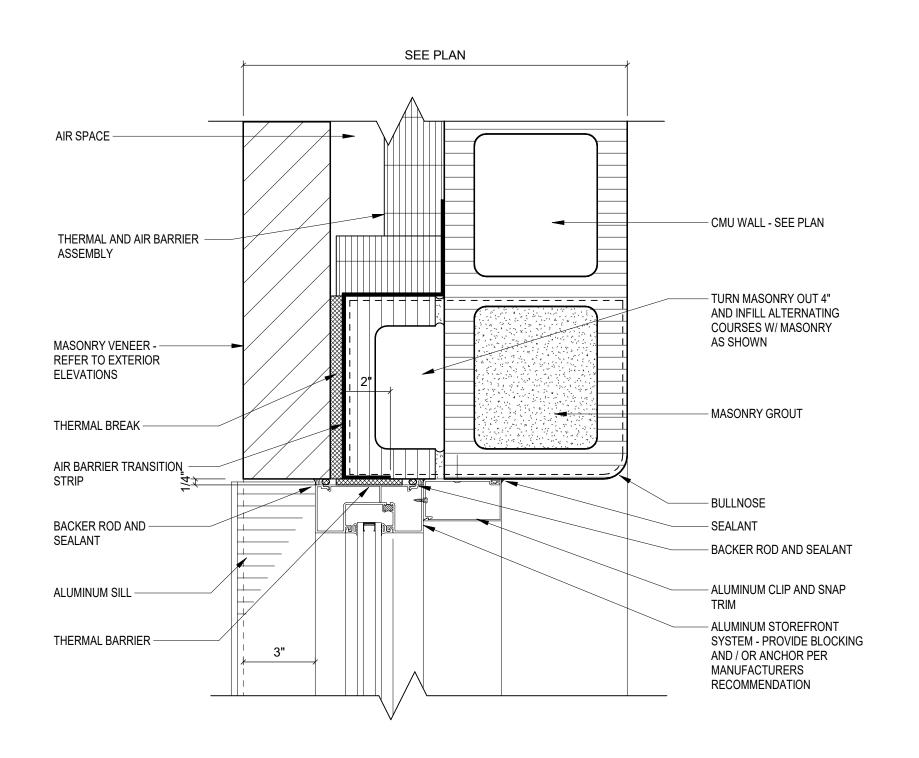


HEAD - STOREFRONT

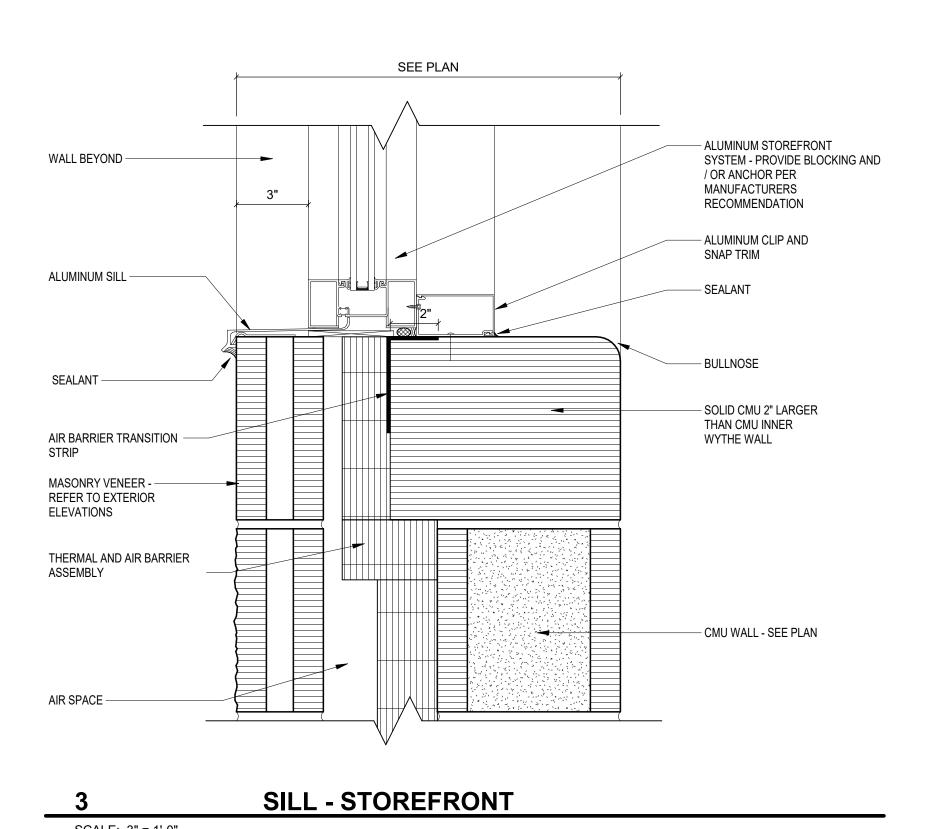


HEAD - STOREFRONT

SCALE: 3" = 1'-0"



JAMB - STOREFRONT SCALE: 3" = 1'-0"



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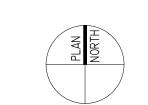


<u>ARCHITECT</u>

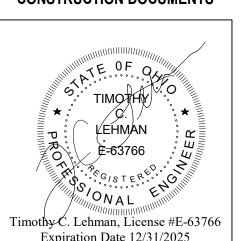


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DOOR AND WINDOW DETAILS

A6.02

	RESILIENT BASE		COVE BASE
	MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
	RB-1	TARKETT "BASEWORKS (TS) OR DURACOVE (TP)" PATCRAFT MANNINGTON	MOON ROCK MATCH TARKETT MATCH TARKETT
	DECORATIVE RESINO	US FLOORING	INTEGRAL COVE BASE
•	MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION

REFER TO SPECTIFICATIONS FOR ADDITIONAL INFORMATION ARCHITECT TO SELECT FROM MANUFACTUER'S FULL RANGE OF STANDARD AND DESIGNER COLORS MANUFACTURER TO SUBMIT ACTUAL PRODUCT SAMPLES AFTER SELECTION OF COLORS FOR VERIFICATION AND APPROVAL

KEY RESIN COMPANY "KEY CHIP 100"

CROSSFIELD PRODUCTS CORP

BASE CONSTRUCTION SYSTEMS

TERRAZZO & MARBLE SUPPLY CO.

GENERAL POLYMERS

STONEHARD INC

WALL FINISH	HES	REFER TO A8 ARCH. DWG. SHEETS		
PAINT				
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION		
P-1 P-2 P-3 P-4 [BLUE] P-5 [GOLD] P-6 [GREEN] P-7	SHERWIN WILLIAMS	SW7016 MINDFUL GRAY SW9170 ACIER SW7019 GAUNTLET GRAY CUSTOM TO MATCH PMS 7687C CUSTOM TO MATCH PMS 7405C CUSTOM TO MATCH PMS 7718C SW7006 EXTRA WHITE		

	CERAMIC WALL TILE		
, , ,	MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
	CWT-1	AMERICAN OLEAN "COLOR STORY WALL" [6X6] DALTILE	SAPPHIRE SKY 0070 MATCH AMERICAN OLEAN
	CWT-2	MOSA TILE AMERICAN OLEAN "COLOR STORY WALL" [6X6] DALTILE	MATCH AMERICAN OLEAN LEMON ZEST 0075 MATCH AMERICAN OLEAN
	CWT-3	MOSA TILE AMERICAN OLEAN "COLOR STORY WALL" [6X6] DALTILE	MATCH AMERICAN OLEAN DEPENDABLE 0053 MATCH AMERICAN OLEAN

MOSA TILE

EQUIPT MATERIAL & FINISH GEN. NOTES

REFER TO A7 ARCH. DWG. SHTS

ITEM NO.

EDUCATIONAL CASEWORK FINISHES ARE AS FOLLOWS (U.N.O.):

HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-1, UNLESS 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-1. SUBMIT ALL MANUFACTURER SAMPLES FOR VERIFICATION AND SELECTION. 3MM AND 1MM EDGES TO MATCH PL-1 ARE TO BE MANUFACTURED UTLIZING THE SAME LAMINATE PAPER, PATTERN AND COLORATION AS

PL-1. DEVIATION FROM CUSTOM PRECISE MATCH IS NOT ACCEPTABLE.

DOELLKEN/CANPLAST CHARTER INDUSTRIES **TEKNAFORM**

WILSONART SUBMIT ALL MANUFACTURER'S FULL RANGE OF PVC EDGE BAND SAMPLES FOR VERIFICATION, SELECTION AND APPROVAL

HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED. INTERIOR MELAMINE TO BE WHITE. 3MM AND 1MM PVC EDGE COLORS ON EDUCATIONAL CASEWORK ARE TO BE SELECTED FROM MANUFACTURER'S STANDARDS. SUBMIT ALL MANUFACTURER SAMPLES FOR VERIFICATION AND

SELECTION. DOELLKEN/CANPLAST **CHARTER INDUSTRIES TEKNAFORM**

> WILSONART SUBMIT ALL MANUFACTURER'S FULL RANGE OF PVC EDGE BAND SAMPLES FOR VERIFICATION. SELECTION AND APPROVAL.

HANDLES TO BE SILVER METALLIC POWDERCOAT

HINGES TO BE SILVER METALLIC POWDERCOAT. GROMMETS TO BE BLACK ON ALL COUNTERTOPS AND WORKSURFACES. TECHNOLOGY CABINET VENTS, VENT GRILLES, ETC, TO MATCH MOCKETT 92N NAVY GREY PER LAMINATE. INSTALLED ON CORRESPONDING TECHNOLOGY/SOUND SYSTEM CABINETS (SUBMIT SAMPLES FOR APPROVAL).

PLASTIC LAMINATE FACED ARCHITECTURAL CABINETRY (CUSTOM CASEWORK-DIV. 06) CASEWORK FINISHES ARE AS FOLLOWS (U.N.O.):

HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED. 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-1. SUBMIT ALL MANUFACTURER SAMPLES FOR VERIFICATION AND SELECTION. 3MM AND 1MM EDGES TO MATCH PL-1 ARE TO BE MANUFACTURED UTLIZING THE SAME LAMINATE PAPER, PATTERN AND COLORATION AS

PL-1. DEVIATION FROM CUSTOM PRECISE MATCH IS NOT ACCEPTABLE. D OELLKEN/CANPLAST **CHARTER INDUSTRIES**

TEKNAFORM WILSONART

SUBMIT ALL MANUFACTURER'S FULL RANGE OF PVC EDGE BAND SAMPLES FOR VERIFICATION, SELECTION AND APPROVAL.

HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED. INTERIOR MELAMINE TO BE WHITE. 3MM AND 1MM PVC EDGE COLORS ON EDUCATIONAL CASEWORK ARE TO BE SELECTED FROM MANUFACTURER'S STANDARDS. SUBMIT ALL MANUFACTURER SAMPLES FOR VERIFICATION AND

SELECTION. DOELLKEN/CANPLAST CHARTER INDUSTRIES

> TEKNAFORM WILSONART

SUBMIT ALL MANUFACTURER'S FULL RANGE OF PVC EDGE BAND SAMPLES FOR VERIFICATION, SELECTION AND APPROVAL

HANDLES TO BE SILVER METALLIC POWDERCOAT.

HINGES TO BE SILVER METALLIC POWDERCOAT. GROMMETS TO BE BLACK ON ALL COUNTERTOPS AND WORKSURFACES. TECHNOLOGY CABINET VENTS, VENT GRILLES, ETC. TO MATCH MOCKETT 92N NAVY GREY PER LAMINATE INSTALLED ON CORRESPONDING TECHNOLOGY/SOUND SYSTEM CABINETS (SUBMIT SAMPLES FOR APPROVAL).

**ALL CASEWORK TO BE LOCKABLE AND KEYED ALIKE PER ROOM, EACH ROOM KEYED DIFFERENTLY AND MASTER KEYED REGARDLESS OF EDUCATIONAL OR PLASTIC LAMINATE FACED ARCHITECTURAL CABINETRY

MATERIAL & FINISH GENERAL NOTES

GENERAL/ MISC.
A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (A8 SERIES) FOR MATERIALS, PATTERNS AND COLORS. REFER TO A7.00A FOR LIST OF FINISHES.

CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.

COORDINATE CONTROL JOINTS IN CONCRETE SLAB WITH STRUCTURAL DRAWINGS AND FINISH FLOORING

REFER TO FLOOR PLANS, RESTROOM ENLARGED PLANS, PLUMBING DRAWINGS, ETC. FOR FLOOR DRAIN LOCATIONS.

EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.

AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM IN MORTAR BED. PROVIDE SCHLUTER DILEX-EDP OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.

<u>CARPET TILE</u> A. ALL CARPET TILE BACKING TO HAVE A MOISTURE RESISTANT BARRIER AND BE HARDBACK. INSTALLATION METHOD TO BE HORIZONTAL BRICK ASHLAR FOR ALL CARPET TILE LISTED, REGARDLESS OF PLANKS, SQUARES OR SIZE OF TILE. SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.

ADDITIONAL MANUFACTURERS LISTED MUST CUSTOM MATCH BASIS OF DESIGN PRODUCT AS LISTED, INCLUDING PATTERN, YARN TYPE AND DYE METHOD, PATTERN REPEAT WIDTH AND LENGTH, MODIFICATION RATIO, MINIMUM FACE WEIGHT AND MINIMUM DENSITY FACTOR (DENSITY FACTOR = FACE WEIGHT X 36 / PILE THICKNESS)

REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.

COORDINATE COLOR SELECTION WITH ARCHITECT. MANUFACTURER SHALL SUBMIT FULL RANGE OF BASE COATS AND CHIP COLORS FOR INITIAL SELECTION. ONCE SELECTION OF THESE FINISHES HAVE OCCURED, MANUFACTURER SHALL SUBMIT FINAL LARGE FLOOR SAMPLE FOR VERIFICATION AND APPROVAL. PROVIDE A 6"H INTEGRAL COVE BASE AT ALL DRF LOCATIONS.

ARCHITECT TO SELECT FROM

BASE COAT PIGMENT COLORS,

FLAKE ADDREDATE CHIP CLRS

(GRAYS, WHITE, NAVY, GOLD, BLACK, ETC.)

MATCH AMERICAN OLEAN

FULL RANGE OF STANDARD

ALONG WITH UP TO 5 VINYL

RUBBER BASE (RB-1) TO BE INSTALLED AT ALL CSC AND CART LOCATIONS UNLESS OTHERWISE INDICATED. ALL RB BASE TO BE COVED. AT RB LOCATIONS PROVIDE PREFORMED OUTSIDE CORNERS, AND USE MANUFACTURER'S RECOMMENDED ADHESIVE (CONTACT CEMENT) FOR PROPER ADHESION WITH NO GAPS.

PAINT ALL WALLS UNLESS OTHERWISE INDICATED ON FINISH PLANS.

PAINT TYPE GENERAL NOTES

UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK

SECTION 0991113 - EXTERIOR PAINTING. ALL GYPSUM BOARD WALLS (VERTICAL WHERE FREQUENT CLEANING WILL NOT OCCUR) SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.22 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS

OTHERWISE INDICATED. ALL GYPSUM BOARD WALLS (VERTICAL WHERE FREQUENT CLEANING WILL OCCUR) SHALL BE PAINTED WITH PAINT TYPE #9.23 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.

ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.

ALL CONCRETE SUBSTRATES, INCLUDING PRECAST CONCRETE, SHALL BE PAINTED INTERIOR PAINT TYPE # ALL COTTON, CANVAS, ETC. ON PIPE AND DUCT COVERINGS SHALL BE PAINTED INTERIOR PAINT TYPE #

ALL WALLS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.223 (EPOXY-SEMI-GLOSS). REFER TO SECTION099600 - HIGH PERFORMANCE COATINGS. 107 AND 108.

PAINT COLOR GENERAL NOTES

NOTED ON INTERIOR ELEVATIONS, P-7 UNLESS OTHERWISE NOTED.

PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.

PAINT ALL EXPOSED STEEL ON STAIRS, RAILS, AND STRINGERS P-3. NOTE LOCATIONS OF BRUSHED ALUMINUM RAILINGS (IF APPLICABLE) AND DO NOT PAINT THEM.

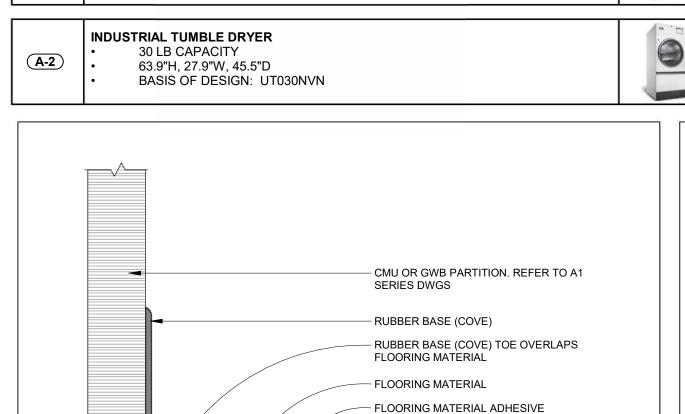
PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-7 UNLESS OTHERWISE NOTED ON FINISH

PAINTED P-3 UNLESS OTHERWISE NOTED. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS. ALL EXPOSED MECHANICAL DUCTWORK, INCLUDING INSULATION WRAP IF APPLICABLE. TO BE PAINTED AS NOTED ON INTERIOR ELEVATIONS, P-7 UNLESS OTHERWISE NOTED. ALL EXPOSED MECHANICAL EQPT. SUPPLY/RETURN GRILLE, DAMPER, SUPPLY LINE, ETC. TO BE PAINTED AS

ALL INTERIOR HOLLOW METAL DOOR & WINDOW FRAMES AND INTERIOR HOLLOW METAL DOORS ARE TO BE

ALL EXPOSDED STRUCTURE, CEILING, DECK, ETC. TO BE PAINTED P-7 UNLESS OTHERWISE NOTED. ALL EXPOSED PLUMBING, ELECTRICAL, TECHNOLOGY, ETC. TO BE PAINTED P-7 UNLESS OTHERWISE NOTED, OR PAINTED TO MATCH SPECIFIC WALL COLOR AS IDENTIFIED ON FINISH PLANS & INTERIOR ELEVATIONS.

			SIZE				
TYPE	#	W	D	Н	DESCRIPTION		
В	1	3'-3"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.		
В	2	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHEL AND TWO HINGED DOORS.		
BS	3	3'-3"	2'-0"	2'-10"	ADA SINK BASE UNIT WITH TWO POCKET DOORS AND ONE BLANK DRAWER PANEL. REFER TO DETAIL ON A7.00C.		
DF	4	1'-4"	2'-0"	2'-6"	FILE/FILE PEDESTAL. FILE DRAWER UNIT WITH FOLLOWERS, TWO EQUAL DRAWERS (INSIDE SIDES TO BE 9-3/4 INCHES HIGH), AND HANGER CHANNEL INTEGRAL WI DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING.		
DF	5	1'-4"	2'-0"	2'-6"	FILE DRAWER UNIT WITH FOLLOWERS, TWO EQUAL DRAWERS (INSIDE SIDES TO BE 9-3/4 INCHES HIGH), AND HANGER CHANNEL INTEGRAL WITH DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING.		
Т	6	1'-6"	2'-0"	7'-0"	TALL TEACHER WARDROBE UNIT WITH ONE FIXED SHELF, TWO ADJUSTABLE SHELVES, THREE FILE DRAWERS, AND ONE HINGED DOOR		
W	7	3'-3"	1'-2"	2'-6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS		
W	7	3'-3"	1'-2"	2'-6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS		
W	7	3'-3"	1'-2"	2'-6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS		
W	8	3'-3"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS		
W	9	3'-0"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS		



ITEM DESCRIPTION

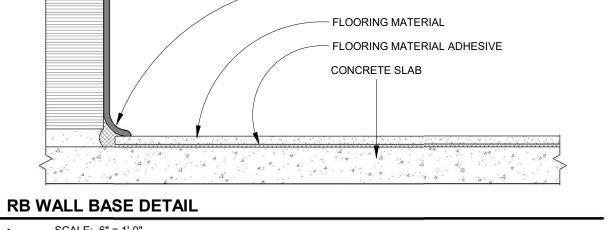
(CONTRACTOR PROVIDED/CONTRACTOR INSTALLED)

NIMAC SOFTMOUNT COMMERCIAL WASHER EXTRACTOR

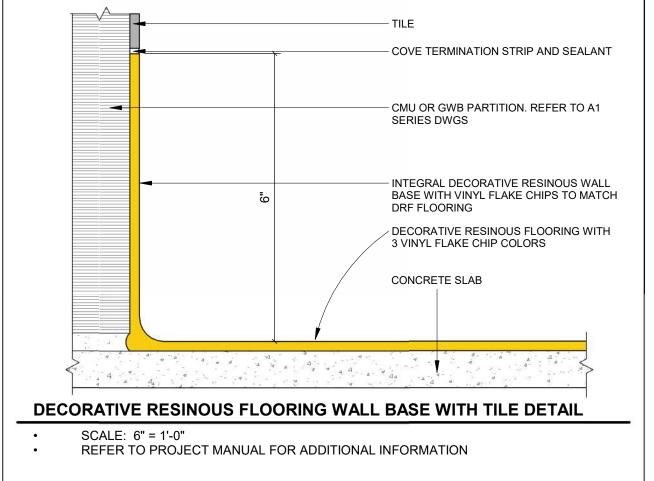
BASIS OF DESIGN: UNIMAC MODEL NUMBER: UYT020

20 LB CAPACITY

43 7/8"H, 27 15/16"W,31 1/8"D



REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



LOCKER SCHEDULE

OPEN FRONT AT WARDROBE AREA (NO DOORS). 2. HAT SHELF. 3. OPTIONAL 12 INCH WIDE SECURITY BOX, WITH STEEL

PAINT FINISH AS NOTED WITHIN LIST OF FINISHES LOCATED ON A7.00A.

INT FINISH AS NOTED WITHIN LIST OF FINISHES LOCATED ON A7 00A

DESCRIPTION

NGLE TIER ATHLETIC TEAM OPEN-FRONT LOCKER WITH 4 INCH CONCRETE BASE AND SLOPED TOP. LOCKER TO BE PROVIDED WITH THE FOLLOWING:

PLAIN/NON-VENTILATED/PERFORATED DOORS. INCLUDE COMBINATION FINGER PULL/FRICTION CATCH DOOR LATCH. 4. OPTIONAL FOOT LOCKER WITH TIFFENER SECTIONS FOR REINFORCEMENT AND PREPARED FOR OWNER PROVIDED PADLOCK. FOOT LOCKER FRONT PANEL SHALL HAVE SECURE AIR

OW PERFORATION AND VENTILATION SLOTS. PROVIDE RUBBER BUMPER MOUNTED TO LOCKER BACK TO CUSHION SEAT IN THE OPEN POSITION. 5.

LAIN/NON-VENTILATED/PERFORATED DOORS. INCLÙDE COMBIŃATION FINGER PULL/FRICTION CATCH DOOR LATCH. 4. OPTIONAL FOOT LOCKER WITH

IFFENER SECTIONS FOR REINFORCEMENT AND ADA COMPLIANT LOCKS AS SPECIFIE. FOOT LOCKER FRONT PANEL SHALL HAVE SECURE AIR FLOW

PERFORATION AND VENTILATION SLOTS. PROVIDE RUBBER BUMPER MOUNTED TO LOCKER BACK TO CUSHION SEAT IN THE OPEN POSITION. 5. STEEL

PERFORATED VERTICAL SIDE PANELS FOR VENTILATION. 9. SLOPED TOPS. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION. POWDERCOAT

AT/GARMENT ROD FULL WIDTH OF LOCKER. 6. INTEGRAL FULL DEPTH LOCKER BASE. 7. TWO SINGLE PRONG WALL HOOKS. 8. DIAMOND

EEL COAT/GARMENT ROD FULL WIDTH OF LOCKER. 6. INTEGRAL FULL DEPTH LOCKER BASE. 7. TWO SINGLE PRONG WALL HOOKS. 8. DIAMOND PERFORATED VERTICAL SIDE PANELS FOR VENTILATION. 9. SLOPED TOPS. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION. POWDERCOAT

SINGLE TIER ADA ATHLETIC TEAM OPEN-FRONT LOCKER WITH 4 INCH CONCRETE BASE AND SLOPED TOP. LOCKER TO BE PROVIDED WITH THE

OLLOWING: 1. OPEN FRONT AT WARDROBE AREA (NO DOORS). 2. HAT SHELF. 3. OPTIONAL 12 INCH WIDE SECURITY BOX, WITH STEEL

| CWT-3 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CWT-3 | CWT-2 | CWT-3 |
| CWT-3 |
CWT-3	CWT-2	CWT-3	CWT-3	CWT-3													
CWT-3	CWT-3	CWT-3	CWT-3	CWT-2	CWT-3												
CWT-3	CWT-3	CWT-2	CWT-3	CWT-3	CWT-3	CWT-3	CWT-2	CWT-3	CWT-3	CWT-2	CWT-3						
CWT-3	CWT-2	CWT-3	CWT-3	CWT-3	CWT-3	CWT-2	CWT-3	CWT-3	CWT-3	CWT-3	CWT-3						
CWT-3	CWT-2	CWT-2	CWT-2	CWT-2	CWT-3	CWT-2	CWT-2	CWT-2	CWT-3	CWT-3	CWT-2	CWT-2	CWT-3	CWT-3	CWT-2	CWT-2	CWT-2
CWT-2	CWT-2	CWT-2	CWT-3	CWT-2	CWT-3	CWT-2	CWT-2	CWT-2	CWT-2	CWT-3	CWT-2	CWT-2	CWT-3	CWT-2	CWT-2	CWT-2	CWT-2
CWT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	CWT-3	CWT-2	CWT-2	CWT-2	CWT-2	CWT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2
CWT-2	CWT-2	CWT-2	CWT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	CWT-3	CWT-2	CWT-1						
CWT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	CWT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2
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CWT-1	CWT-1	CWT-1	CWT-1	CWT-1	CWT-2	CWT-1											
CWT-1	CWT-2	CWT-1	CWT-1	CWT-1	CWT-1	CWT-1	CWT-1	CWT-2	CWT-1								
CWT-1	CWT-2	CWT-1	CWT-1	CWT-1	CWT-1												
CWT-1																	

CWT-1, CWT-2, & CWT-3 WALL TILE PATTERN

SCALE: NOT TO SCALE

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CONVOCATION CENTER **EXPANSION**

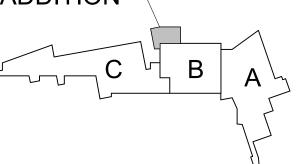
1937 EDISON DRIVE PIQUA, OHIO 45653

EDISON STATE COMMUNITY COLLEGE



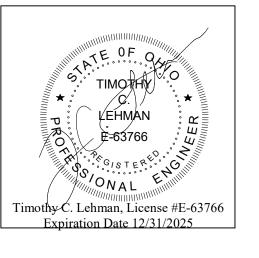


419-586-7771 WWW.FHAI.COM 128 WEST MARKET STREET, CELINA, OH 45822



KEY PLAN

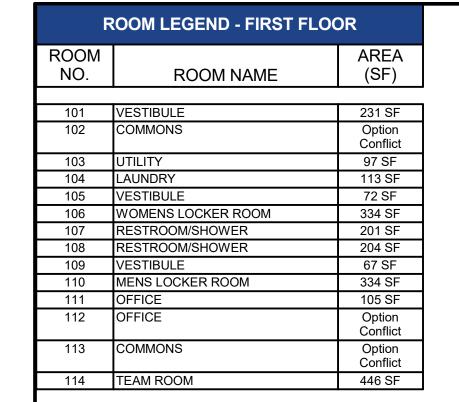
CONSTRUCTION DOCUMENTS

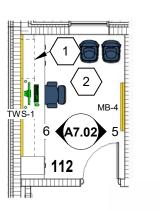


PROJECT MANAGER: RW DRAWN BY: CH PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024 REV.

NO.	DESCRIPTION	DATE

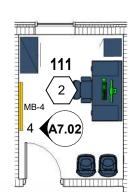
EQPT. SCHEDLUES, LIST OF FINISHES, AND DETAILS





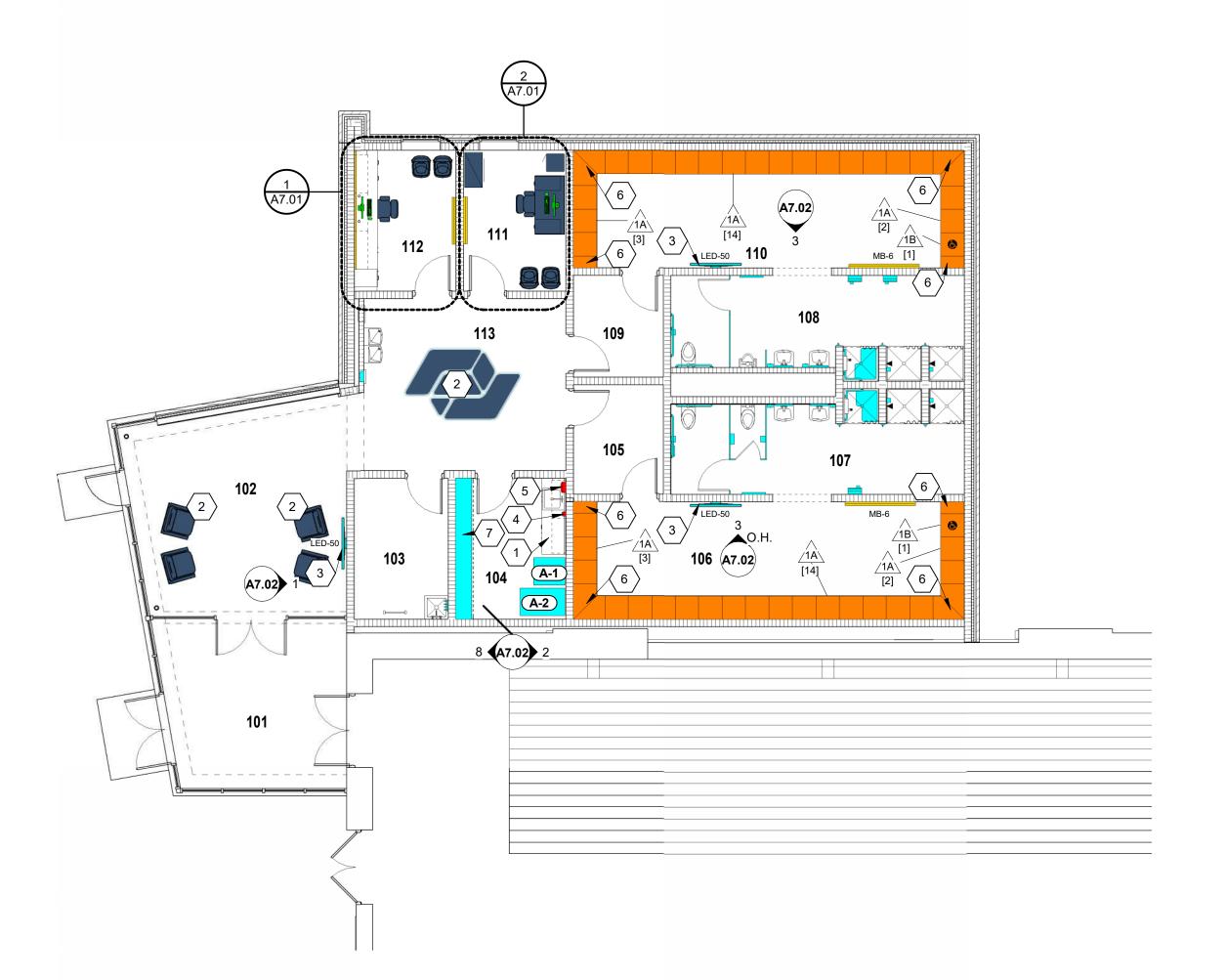
OFFICE ALTERNATE SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

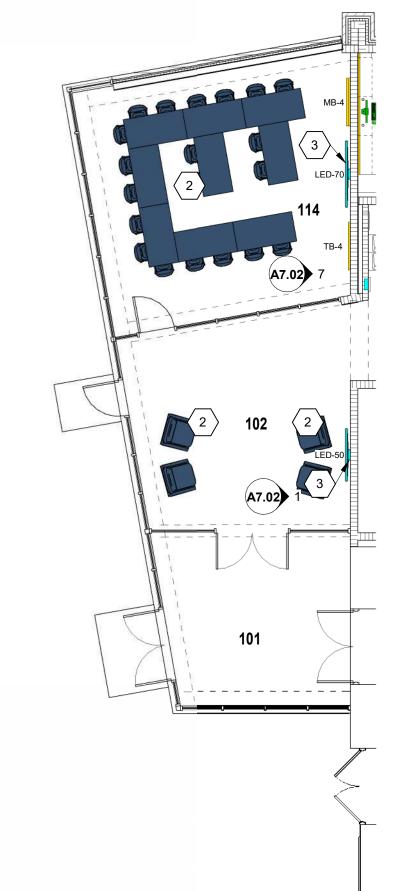


OFFICE ALTERNATE

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



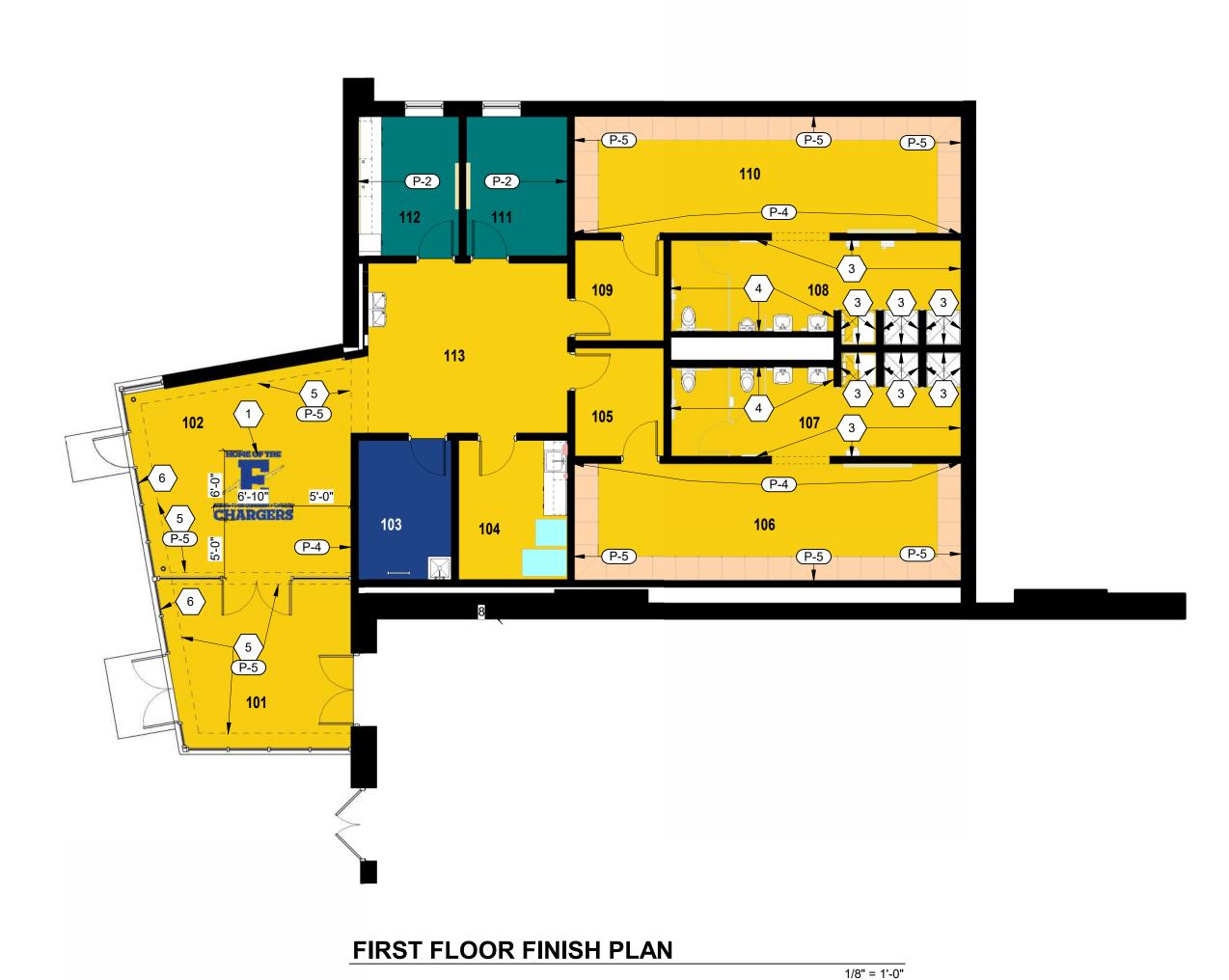
FIRST FLOOR EQUIPMENT PLAN

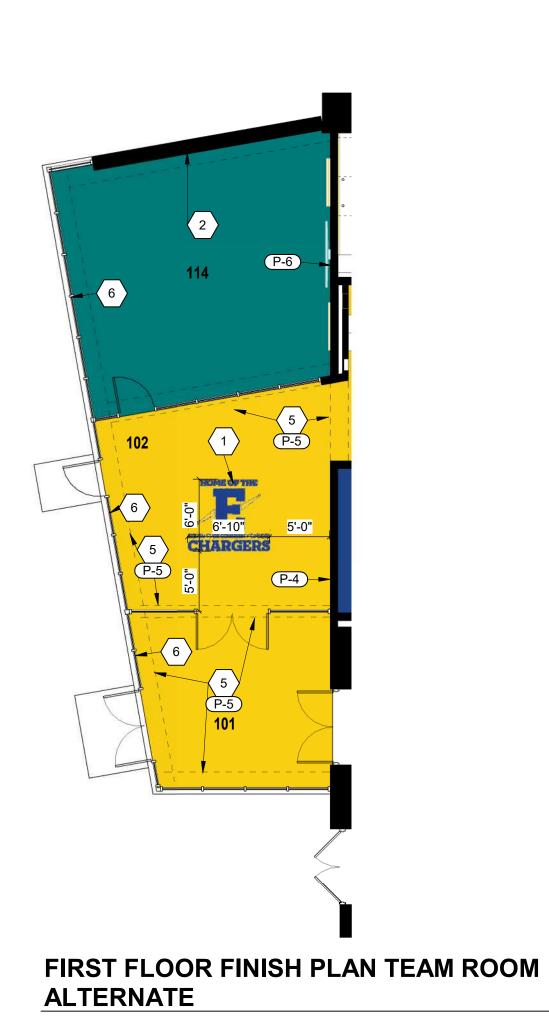


FIRST FLOOR EQUIPMENT PLAN TEAM **ROOM ALTERNATE**

1/8" = 1'-0"

1/8" = 1'-0"





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REFER TO LIST OF FINISHES & CASEWORK ELEVATIONS
FOR FINISH/COLOR SELECTIONS FOR ALL ITEMS. INDICATES LOCKER TYPE. REFER TO LOCKER TYPE SCHEDULE ON A7.00A. [X] NUMBER BELOW PLAN NOTE INDICATES TOTAL QUANTITY OF LOCKER TYPE. REFER TO A7.00A AND PROJECT MANUAL. INDICATES ADA LOCKER REFER TO LOCKER TYPE SCHEDULE ON A7.00A. 1937 EDISON DRIVE PIQUA, OHIO 45653 **EQUIPMENT LEGEND** PROJECT REQUIREMENTS & DESIGNATIONS OWNER PROVIDED / OWNER INSTALLED OWNER PROVIDED / CONTRACTOR INSTALLED CONTRACTOR PROVIDED / CONTRACTOR INSTALLED VISUAL DISPLAY SURFACES
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED LOCKERS
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED **EDISON STATE** FF&E/LOOSE FURNISHINGS
CONTRACTOR PROVIDED / CONTRACTOR INSTALLE COMMUNITY COLLEGE **CASEWORK LEGEND** XX-XXX — CABINET TYPE (REF. TO CASEWORK SCHEDULE) 00x00x00 — WIDTH (IN.) x HEIGHT (IN.) x DEPTH (IN.) CABINET TYPE CABINET WIDTH (IN.) _____ CABINET HEIGHT (IN.) COMMUNITY COLLEGE

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET) **FANNING** CASEWORK. REFER TO CASEWORK ELEVS., CASEWORK SCHEDULE & PROJECT MANUAL. LOOSE FURNISHINGS. CONTRACTOR PROVIDED/CONTRACTOR INSTALLED. LED MONITOR, SIZE AS INDICATED. REFER TO CASEWORK/INTERIOR ELEVATIONS & ELEC./TECH. DWGS. SOAP DISPENSER. OWNER PROVIDED/CONTRACTOR

UNIFORM STORAGE SHELF. REFER TO A7.02 AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. WWW.FHAI.COM 128 WEST MARKET STREET, CELINA, OH 45822

FINISH GENERAL NOTES

EQUIPMENT NOTES

INSTALLED.

INSTALLED

REFER TO LIST OF FINISHES ON DRAWINGS SHEETS A 7.00A FOR ADDITIONAL INFORMATION. REFER TO DRAWING SHEET A7.00A FOR TYPICAL FLOOR TRANSITION DETAILS. P-X INDICATES PAINT COLOR SELECTION FOR THE ENTIRE PLANE OF THE WALL OR SURFACE INDICATED TO BE PAINTED. (ARROW POINTER

DIRECTS CORNER TO CORNER OR ENTIRE PLANE AS INDICATED) REFER TO A7.00A AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. P-X INDICATES PAINT COLOR SELECTION. REFER
TO A7.00A FOR ADDITIONAL INFORMATION AND
PROJECT MANUAL FOR USE OF INTERIOR PAINT TYPES
AND LOCATIONS, INCLUDING HIGH PERFORMANCE COATINGS.

TOWEL DISPENSER. OWNER PROVIDED/CONTRACTOR

LOCKER FILLER. REFER TO PROJECT MANUAL.

FLOOR PATTERN/FINISH KEY NOTES (X) (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

REFER TO SHEET A7.00A FOR GENERAL FINISH PLAN NOTES, LIST OF FINISHES, TYPICAL FLOOR TRANSITION DETAILS AND ADDITIONAL INFORMATION.

VINYL DECAL UNDER DECORATIVE RESINOUS TOP COAT.
REFER TO PROJECT MANUAL FOR ADDTIONAL INFORMATION. VINYL APPLIED WALL GRAPHIC. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.

FLOOR BASE TO CEILING CWT-3. REFER TO SHEET A7.00A FOR ADDITIONAL INFORMATION. FLOOR BASE TO CEILING CWT-1, CWT-2, AND CWT-3 PATTERN. REFER TO SHEET A7.00A FOR ADDITIONAL

INFORMATION. PAINT BULKHEAD ABOVE (INDICATED WITH DASHED LINES) IN ACCENT PAINT COLOR INDICATED. PAINT ACCENT COLOR ON ALL SIDES OF BULKHEAD. FLOOR TO CEILING PERFORATED WINDOW GRAPHIC FILM REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.

FLOOR PATTERN LEGEND

REFER TO A7.00A AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. ALL FLOOR PATTERNS/FINISHES BELOW MAY NOT BE INDICATED ON THIS SHEET.

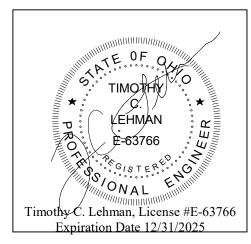
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

CONSTITUTES ACCEPTANCE OF CONDITIONS.

DECORATIVE RESINOUS FLOORING

CURE & SEALED CONCRETE



CONSTRUCTION DOCUMENTS

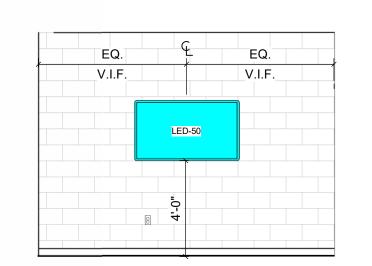
PROJECT MANAGER: RW DRAWN BY: CH PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

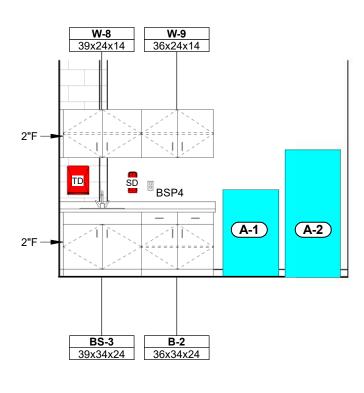
KEY PLAN

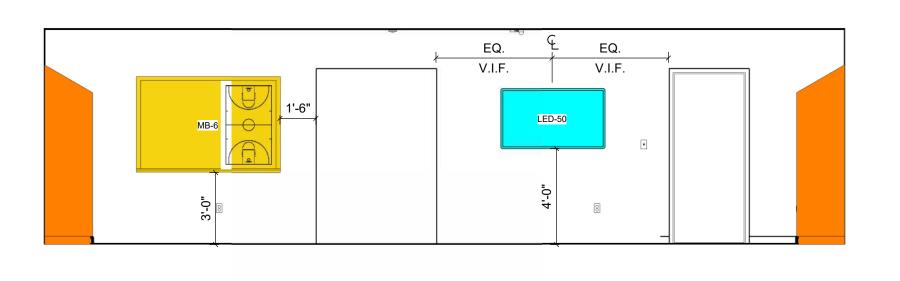
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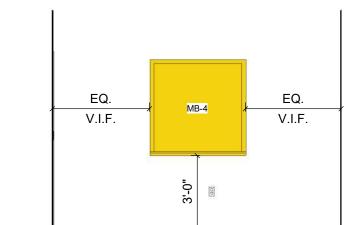
DESCRIPTION

FIRST FLOOR EQUIPMENT AND **FINISH PLANS** VERIFICATION NOTE









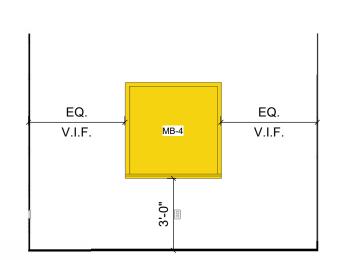
RM. 102A - COMMONS

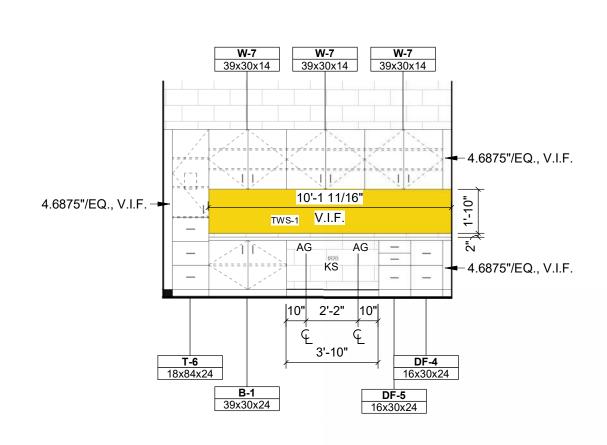
SCALE: 1/4" = 1'-0"

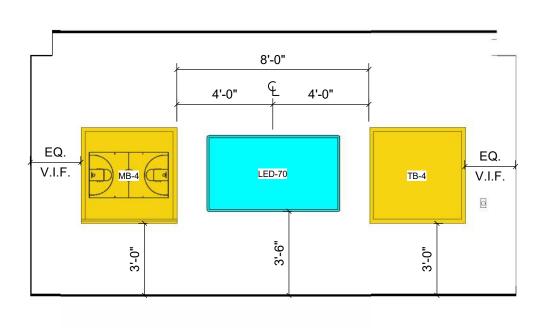
RM. 104 - LAUNDRY SCALE: 1/4" = 1'-0"

RM. 110 - MENS LOCKER ROOM SCALE: 1/4" = 1'-0"

RM. 111 - OFFICE SCALE: 1/4" = 1'-0"





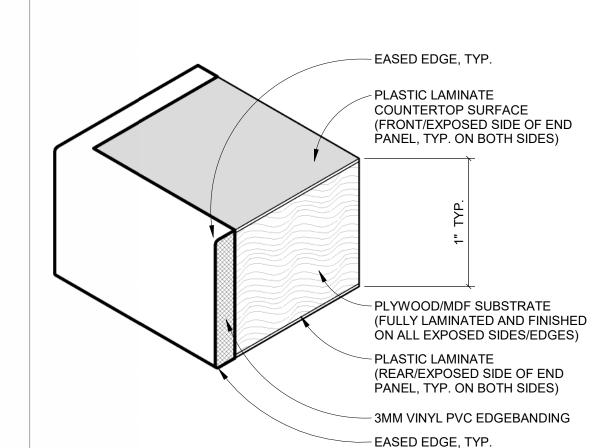


12'-0 3/8"

RM. 112 - OFFICE SCALE: 1/4" = 1'-0" **RM. 112 - OFFICE** SCALE: 1/4" = 1'-0" RM. 113 - TEAM ROOM SCALE: 1/4" = 1'-0"

RM. 104 - LAUNDRY SCALE: 1/4" = 1'-0"

- EASED EDGE, TYP. PLASTIC LAMINATE COUNTERTOP SURFACE



3MM PVC CTOP EDGE - TYP.

- 3MM VINYL PVC EDGEBANDING

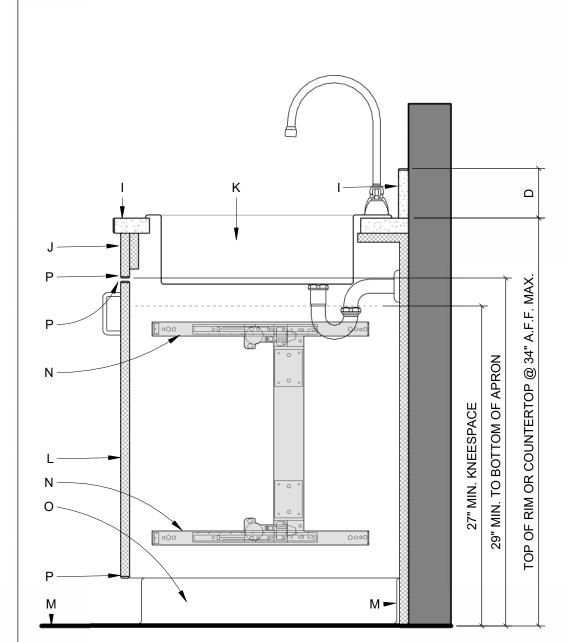
- EASED EDGE, TYP.

REFER TO EQUIPMENT PLANS AND CASEWORK ELEVATIONS FOR LOCATIONS

PLASTIC LAMINATE END PANEL

TYPICAL AT ALL COUNTERTOP EDGES UNLESS OTHERWISE NOTED

(MEDIA CENTER LIBRARY STACK SHELVING, TYP.)



ADA ACCESSIBLE SINK GENERAL **NOTES AND KEYNOTES**

* DEPTH OF UNIT MAY VARY. REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL * IF DEPTH OF SINK BASE CABINET IS 30", OR GREATER THAN 24", PROVIDE FALSE CHASE PANEL AT REAR OF CABINET SO THAT ADA ACCESSIBLE APPROACH IS NOT

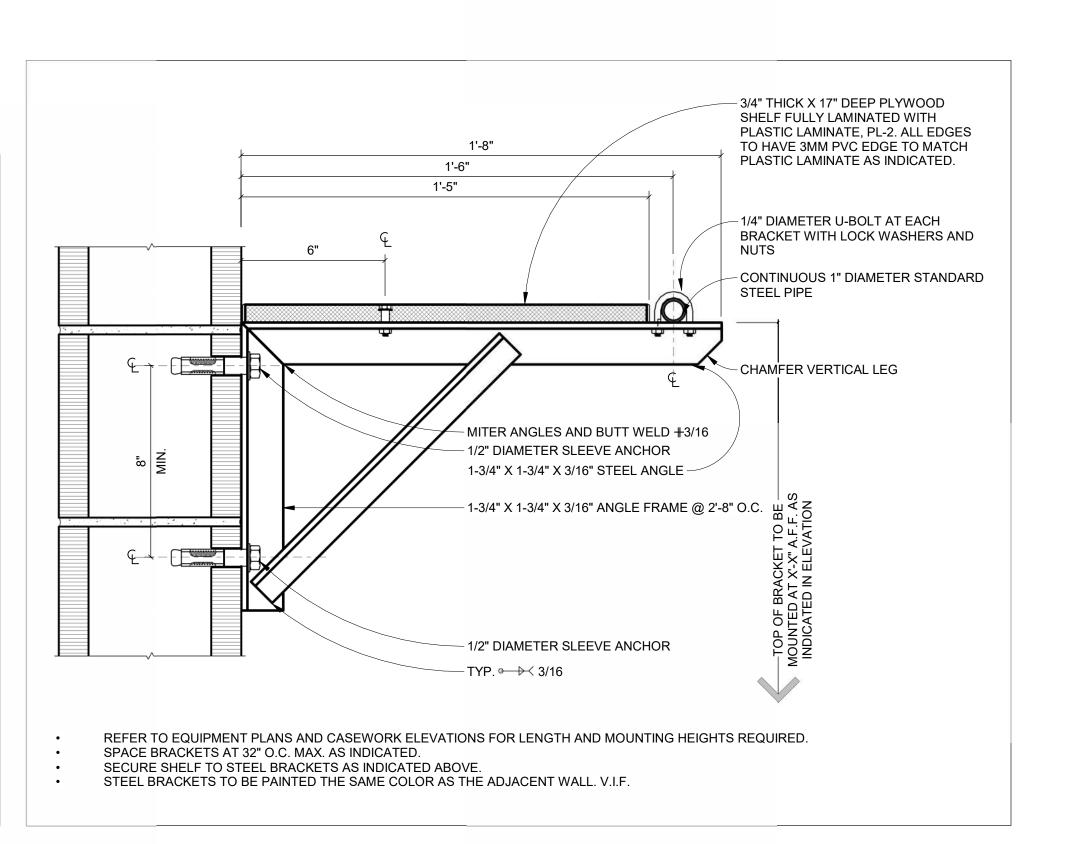
GREATER THAT 24"D AND FORWARD APPROACH "ALCOVE" IS ADA COMPLIANT.

- COORDINATE LOCATION AND SIZE OF SINK TO AVOID CONFLICT WITH CABINET. MAXIMUM SINK DEPTH OF 6-1/2", HOWEVER ACCESSIBLE LAVS. AND SINKS CANNOT ENCROACH INTO THE REQUIRED KNEE AND TOE CLEARANCES, HOWEVER THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES. PROVIDE WOOD BLOCKING AS REQUIRED. REFER TO CASEWORK ELEVATIONS FOR WIDTH OF UNIT (30" MIN. INSIDE CLEARANCE REQUIRED)
- TOP OF BACKSPLASH TO ALIGN WITH TOP OF ADJACENT BACKSPLASH. PROVIDE 4"H BACKSPLASH IF NO ADJACENT BACKSPLASH. 24" NOMINAL DEPTH. UNLESS NOTED OTHERWISE. OR ALIGN FACE OF APPROACH WITH FACE OF CABINET BEYOND. PLUMBING CONTRACTOR TO PROVIDE INSULATED PIPES.
- OFFSET GRID STRAINER, DRAIN, AND PIPING TOWARDS REAR OF SINK TO AVOID POTENTIAL CONFLICT WITH ACCESSIBLE CABINET. THE 34" DIMENSION IS TO THE HIGHEST SURFACE, THE COUNTERTOP OR THE RIM OF THE PLUMBING FIXTURE. PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH WITH 3MM VINYL PVC EDGE AT ALL EXPOSED EDGES, U.N.O. PLASTIC LAMINATE APRON FRONT/BLANK DRAWER FRONT.
- PLASTIC LAMINATE POCKET DOORS. FINISH FLOOR MATERIAL AND WALL BASE. REFER TO FINISH PLANS, LIST OF FINISHES, AND PROJECT MANUAL. POCKET DOOR HARDWARE BY BLUM (B270E-5500-04R, RIGHT HAND/B270E-5500-05L, LEFT HAND).
- WALL BASE BEYOND. 3MM VINYL PVC EDGE AT ALL EXPOSED EDGES, TYP.

SINK. REFER TO PLUMBING DRAWINGS.

ADA ACCESSIBLE SINK (ADULT)

APPLICABLE FOR 6th GRADE THROUGH ADULT REFER TO EQUIPMENT PLANS AND CASEWORK ELEVATIONS FOR LOCATIONS



UNIFORM STORAGE HANGING BRACKET & SHELF DTL.

PROVIDE UNDER PLASTIC LAMINATE-FACED ARCHITECTURAL CABINETS (CUSTOM CASEWORK) - DIV. 6, AS INDICATED ON CASEWORK

CASEWORK GENERAL NOTES

ALL CASEWORK TO BE EDUCATIONAL CASEWORK UNLESS OTHERWISE NOTED ON EQUIPMENT PLANS OR CASEWORK ELEVATIONS. REFER TO CASEWORK ELEVATIONS.

REFER TO DRAWING SHEET A7.00A FOR TYPICAL CASEWORK DETAILS. VERIFY EXACT SIZE OF CASEWORK AND VISUAL DISPLAY BOARDS IN FIELD PRIOR TO FABRICATION. IDENTIFY ALL MODIFIED DIMENSIONS TO MEET FIELD CONDITIONS ON SHOP DRAWINGS FOR APPROVAL.

ALL COUNTERTOPS WHERE SINKS ARE LOCATED TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED.

EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE. CASEWORK TO BE KEYED ALIKE PER ROOM, EACH ROOM KEYED DIFFERENTLY AND MASTER KEYED, UNLESS OTHERWISE NOTED. ALL WALL CABINETS 24" DEEP OR GREATER SHALL BE CONSTRUCTED W/ 3/4" THICK BACK AND 1" THICK SHFI VFS

ALL BASE CABINETS AND FILING CABINETS SHALL BE SE BACK 3/4"-1" FROM EDGE OF COUNTERTOP OR WORKSURFACE UNLESS OTHERWISE NOTED ON DRAWINGS OR A TALL CABINET IS ADJACENT TO THE WORKSURFACE AND BASE CABINETS. ALL TALL CABINETS WITH DOORS ADJACENT TO COUNTERTOP OR WORKSURFACE SHALL HAVE A MINIMUM 1" FILLER TO FACILITATE DOOR SWING. TALL CABINETS SHOULD BE SAME DEPTH AS ADJACENT

WORKSURFACE OR COUNTERTOP AS WELL AS

ADJUACENT BASE CABINETS UNLESS OTHERWISE WHERE CASEWORK IS LOCATED WALL TO WALL. FIELD VERIFY SIZE AND PROVIDE FILLERS AS REQ'D TO CLOSE OFF ALL SIDES AND TOP. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED. EXPOSED SIDES OF CABINETS WITH DEPTH LESS THAN COUNTERTOP OR WORKSURFACES SHALL HAVE EXTENDED SIDES TO ELIMINATE ANY GAPS BETWEEN CABINETS AND WALLS. FILLER STRIPS ARE

NOT ACCEPTABLE

CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES AND CASEWORK INSTALLED EQUIPMENT. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES, AND WALLS. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED. REFER TO SHEET A7.00A FOR FINISH AND MATERIAL SELECTIONS.

TYP. CABINET GRAPHIC DESIGNATION

FOR EACH CABINET SHOWN, PROVIDE A QUANTITY OF EACH COMPONENT DEPICTED. REFER TO CASEWORK SCHEDULE FOR ADDITIONAL INFORMATION BACKSPLASH (IF INDICATED)

- CONTINUOUS COUNTERTOP — LOCKING DRAWER 1- DOOR/DRAWER PULL --
ADJUSTABLE SHELF LOCKING DOOR

CASEWORK LEGEND

XX-XXX — CABINET TYPE (REF. TO CASEWORK SCHEDULE) CABINET WIDTH (IN.) CABINET HEIGHT (IN.)

EQUIPMENT LEGEND

KS3030



LOCKERS
CONTRACTOR PROVIDED / CONTRACTOR INSTALLER FF&E/LOOSE FURNISHINGS
CONTRACTOR PROVIDED / CONTRACTOR INSTALLEI

ABBREVIATIONS

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET) 2" DIAM. ACCESS GROMMET. ALTERNATE. BASE CABINET. SINK BASE CABINET. 4" PLASTIC LAMINATE BACKSPLASH. 6" PLASTIC LAMINATE BACKSPLASH. TECHNOLOGY BASE CABINET COMPRESSED AIR TURRET/COCK. (1 = SINGLE VALVE, 2 = DUAL VALVE) CASEWORK CHASE, SIZE AS INDICATED. 1" THICK CHEMICAL RESISTANT SOLID PHENOLIC COUNTERTOP DRAWER BASE CABINET. DRAWER FILE BASE CABINET. DEMONSTRATION MIRROR (TO FIT WITHIN THE THREADED INSERTS FOR THE DEMO RODS & CROSSBAR ASSEMBLY)

1" THICK EPOXY RESIN COUNTERTOP. ERBS4 or 6 4" or 6" EPOXY RESIN BACKSPLASH. VERTICAL AND/OR HORIZONTAL FILLER PIECE, FIELD VERIFY.

1-1/4" THICK FULL PLASTIC LAMINATE END PANEL WITH 3MM PVC EDGE. GAS TURRET/COCK. (1 = SINGLE VALVE, 2 = DUAL VALVE) KEYBOARD TRAY KNEE SPACE. LED MONITOR (SIZE AS INDICATED. LED-70 IS 70" LED MONITOR). MARKERBOARD. MUSIC CASEWORK/EQUIPMENT. REFER TO CASEWORK SCHEDULE NOT IN CONTRACT. 4" or 6" CHEMICAL RESISTANT SOLID PHENOLIC PBSP4 or 6 POWER/DATA RECEPTACLE. REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS. PENCIL DRAWER. PENCIL SHARPENER SUPPORT. REMOVABLE ACCESS PANEL

ROOM SIGNAGE. SCIENCE CASEWORK/EQUIPMENT. REFER TO CASEWORK SCHEDULE. SOAP DISPENSER. STEREO RACK CABINET.

SOLID SURFACE TOP AND EDGE. SOLID SURFACE BACKSPLASH. SAFETY SHOWER/EMERGENCY EYEWASH. WALL MOUNTED SHORT-THROW INTERACTIVE PROJECTOR TALL CABINET TOWEL HOOKS & BOARD. REFER TO ARCH. TALL OPEN CABINET. TACKBOARD. PAPER TOWEL DISPENSER. TACKSTRIP TALL WARDROBE CABINET. TACKABLE WALL SURFACE. UPRIGHT DEMO RODS AND CROSSBAR ASSEMBLY WITH THREADED INSERTS. UNIFORM STORAGE HANGING BRACKET & SHELF (LENGTH AS INDICATED _) REFER TO DTL. A7.00D.

WALL CABINET. WARDROBE FILE CABINET. WARDROBE STORAGE CABINET/STUDENT CUBBIE. WDTECH WARDROBE TECHNOLOGY CABINET. WALL OPEN CABINET. 1" THICK WORKSURFACE SUPPORT. WALL TECHNOLOGY CABINET. WTECH

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

CONVOCATION

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EDISON STATE COMMUNITY COLLEGE



<u>ARCHITECT</u>



WWW.FHAI.COM 128 WEST MARKET STREET, CELINA, OH 45822

ADDITION

KEY PLAN

CONSTRUCTION DOCUMENTS

ĽEHMÁN **⊭**-63766 Timothy C. Lehman, License #E-63766 Expiration Date 12/31/2025

PROJECT MANAGER: RW DRAWN BY: CH PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

DESCRIPTION

CASEWORK ELEVATIONS AND DETAILS

	ROOM LEGEND									
ROOM NO.	OWNER ROOM NO. ROOM NAME									
101		VESTIBULE	232 SF							
101		COMMONS	323 SF							
102										
104		LAUNDRY	97 SF 113 SF							
105		VESTIBULE	72 SF							
106		WOMENS LOCKER ROOM	334 SF							
107		RESTROOM/SHOWER	201 SF							
108		RESTROOM/SHOWER	204 SF							
109		VESTIBULE	67 SF							
110		MENS LOCKER ROOM	334 SF							
111		OFFICE	105 SF							
112		OFFICE	104 SF							
113		COMMONS	262 SF							

OOM LEGEND			REFLECTED CEILING PLAN LEGEND	
	ROOM NAME	AREA (SF)	A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL ??-A9.1.	
	VESTIBULE	232 SF	B. BULKHEAD FRAMING SHALL BE ATTACHED TO	
	COMMONS	323 SF	STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK	
	UTILITY	97 SF		
	LAUNDRY	113 SF		
	VESTIBULE	72 SF		
	WOMENS LOCKER ROOM	334 SF		
	RESTROOM/SHOWER	201 SF		
	RESTROOM/SHOWER	204 SF		
	VESTIBULE	67 SF		
	MENS LOCKER ROOM	334 SF		

CONVOCATION CENTER

REFLECTED CEILING PLAN NOTES (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

DESCRIPTION

5.400 ROOF ACCESS LADDER, SEE DETAIL DWG A2.01 7.565 METAL WALL PANEL - COLOR 'A'

EXPANSION

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MECHANICAL DRAWINGS

MOTION DETECTOR

CEILING MOUNTED EXIT LIGHT CEILING MOUNTED CAMERA

OR BULKHEAD

FIRE ALARM SPEAKER STROBE

FIRE ALARM STROBE

ACOUSTICAL CEILING TILE (ACT) GYPSUM WALL BOARD BULKHEAD / CEILING

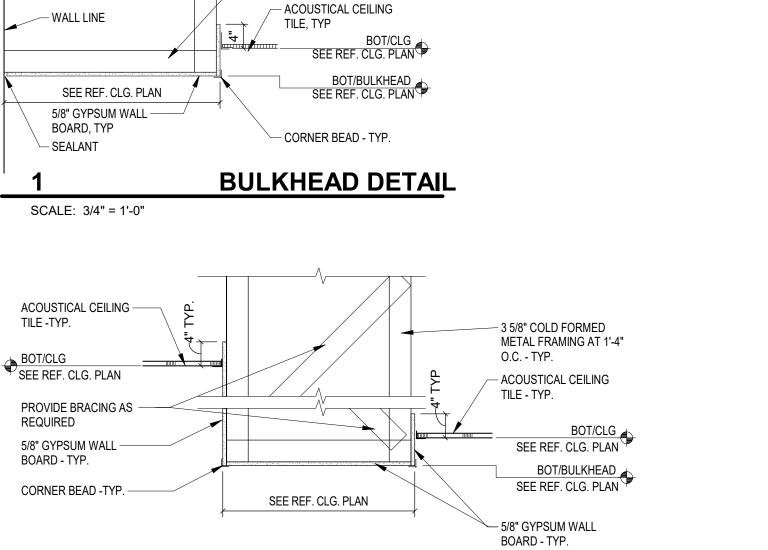
EXTERIOR FINISH SYSTEM (E.F.S.)
EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.) INTERIOR FINISH SYSTEM (I.F.S.)

METAL SOFFIT PANELS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH

REFLECTED CEILING PLAN LEGEND • 10'-4" INDICATES ELEVATION HEIGHT INDICATES CEILING HEIGHT INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE" 128 WEST MARKET STREET, CELINA, OHIO 45822 LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS ADDITION -LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS CLOCK - REFER TO TECHNOLOGY DRAWINGS MECHANICAL DIFFUSER - REFER TO MECHANICAL **DRAWINGS** MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS RECESSED CEILING SPEAKER CONSTRUCTION DOCUMENTS WIRELESS ACCESS POINT (WAP) CONTROL JOINT IN GYPSUM BOARD CEILING SOUND REINFORCEMENT SPEAKER FIRE ALARM HEAT DETECTOR Timothy C. Lehman, License #E-63766 FIRE ALARM HORN STROBE Expiration Date 12/31/2025 DRAWN BY: Author PROJECT NUMBER: 223193.00 FIRE ALARM SMOKE DETECTOR PROJECT ISSUE DATE: 2-22-2024 OCCUPANCY SENSOR DESCRIPTION ACOUSTICAL CEILING TILE (ACT)



BULKHEAD DETAIL

SCALE: 3/4" = 1'-0"

3 5/8" METAL STUDS AT 1'-4" O.C. - TYP.

AS REQUIRED

PROVIDE DIAGONAL BRACING

A 9' - 0"

106 A 9' - 0"

7.565

REFLECTED CEILING PLAN - BASE BID

REFLECTED CEILING PLAN - ALTERNATE

DETAILS

REFLECTED CEILING PLANS AND

CONVOCATION CENTER EXPANSION

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EDISON STATE
COMMUNITY COLLEGE



ARCHITECT



419-586-7771 WWW.FHAI.COM128 WEST MARKET STREET, CELINA, OHIO 45822



CONSTRUCTION DOCUMENTS



DRAWN BY: JAH
PROJECT NUMBER: 223193.00
PROJECT ISSUE DATE: 2-22-2024

PRATER ENGINEERING ASSOCIATES

DESIGNED BY DRAWN BY KJO KJO

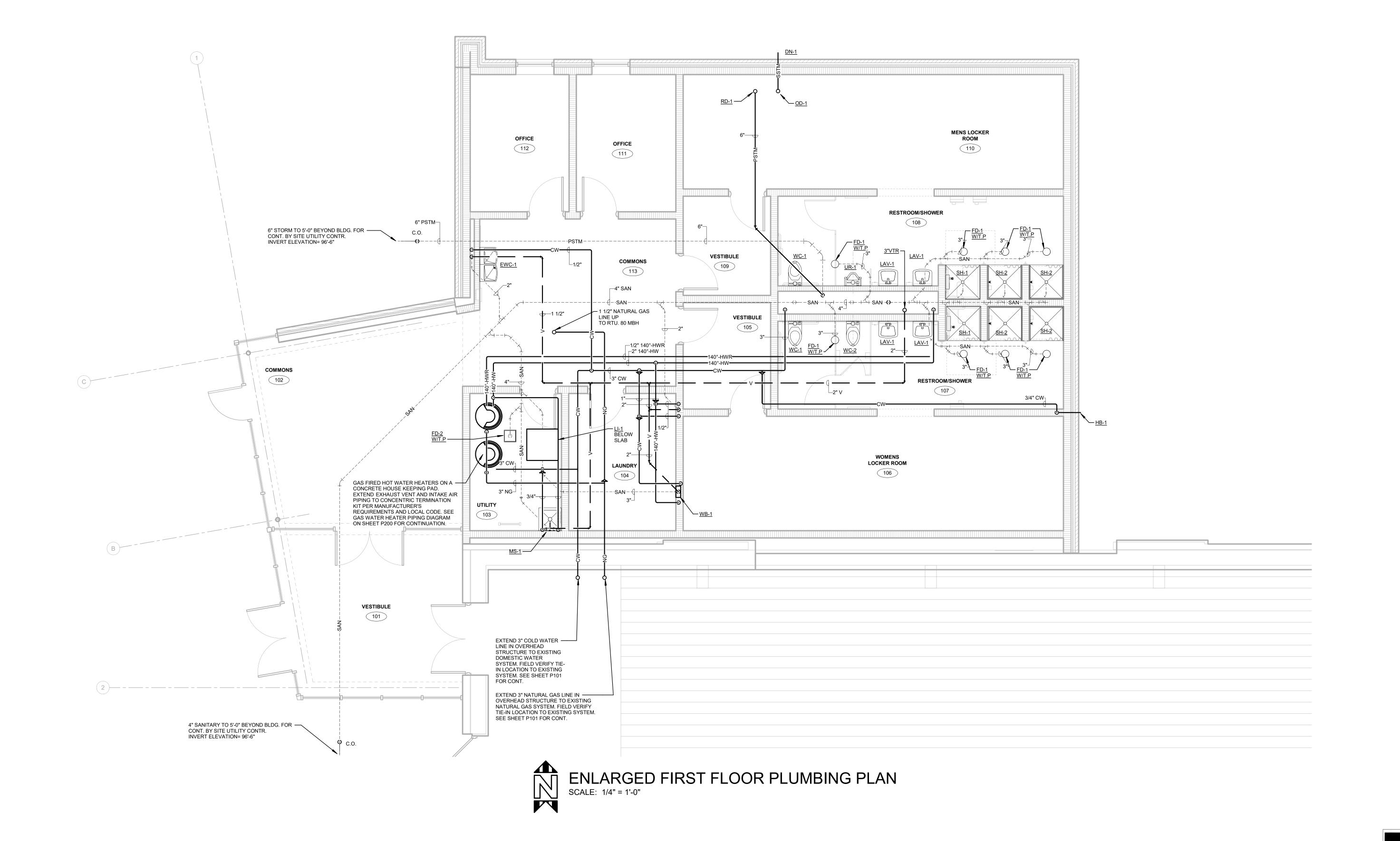
6130 Wilcox Road Dublin, Ohio 43016 Phone: (614) 766-4896 Fax: (614) 766-2354

CHECKED BY JOB NUM.
CMA 23355

REV. NO.	DESCRIPTION	DAT
-		

ENLARGED FIRST FLOOR PLUMBING PLAN

P100



UNDERGROUND PLUMBING GENERAL NOTE;
THIS CONTRACTOR IS RESPONSIBLE FOR THE IN-FIELD LOCATION OF THE EXISTING INTERIOR SANITARY MAIN AS WELL AS VERIFYING THE QUALITY OF PIPE MATERIAL AND ASSOCIATED INVERT ELEVATION IN ADVANCE OF ALL OTHER WORK UNDER THIS CONTRACT. THIS INCLUDES, BUT IS NOT LIMITED TO THE EXAMINATION AND TESTING OF EXISTING BUILDING DRAIN, DEPTH REQUIREMENTS NECESSITATED BY THE ROUTING OF THE NEW SANITARY PIPING AS SHOWN ON PLANS, EXISTING FLOOR SLAB CONDITIONS/ CHARACTERISTICS, AND ALL STRUCTURAL ITEMS BOTH ABOVE AND BELOW THE EXISTING FLOOR

CODED NOTES

CONNECT NEW 4" SAN TO EXISTING SAN BELOW SLAB AT THIS APPROXIMATE LOCATION, AND EXTEND AS SHOWN TO NEW WORK. THIS CONTRACTOR TO COORDINATE ROUTING OF ALL NEW SAN PIPING W/ EXISTING BELOW SLAB CHARACTERISTICS IN ADVANCE. INSTALLATION INCLUDING EXACT LOCATION OF CONNECTION POINT TO EXISTING TO BE FIELD VERIFIED/ COORDINATED BY THIS CONTRACTOR IN ADVANCE OF WORK. PROVIDE TEST TYPE CLEANOUT AT CONNECTION POINT TO SAN.

2. CONNECT NEW 3" CW TO EXISTING 3" CW PIPING ABOVE CEILING/ AT OVERHEAD STRUCTURE THIS CONTRACTOR TO FIELD VERIFY/ COORDINATE IN ADVANCE EXACT LOCATION OF CONNECTION POINT TO EXISTING.

CONNECT NEW 3" G TO EXISTING 3" G PIPING ABOVE CEILING/ AT OVERHEAD STRUCTURE. THIS CONTRACTOR TO FIELD VERIFY/ COORDINATE IN ADVANCE EXACT LOCATION OF CONNECTION POINT TO EXISTING.

CONVOCATION
CENTER
EXPANSION

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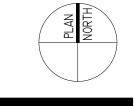


ARCHITECT



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128 WEST MARKET STREET, CELINA, OHIO 45822



CONSTRUCTION DOCUMENTS

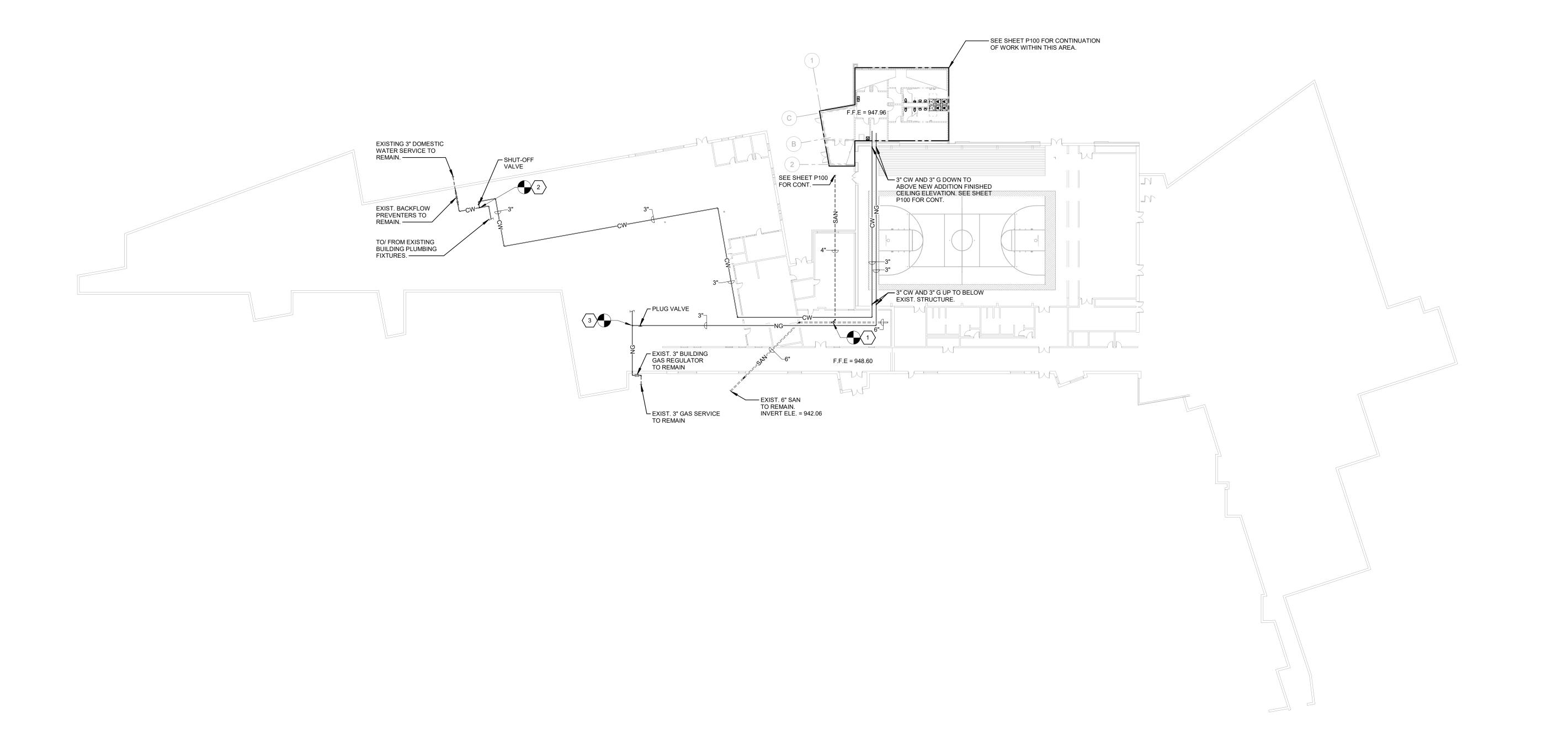


DRAWN BY: Author
PROJECT NUMBER: 223193.00
PROJECT ISSUE DATE: 2-22-2024

REV. NO.	DESCRIPTION	DATE
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OVERALL FIRST FLOOR PLUMBING PLAN

P101

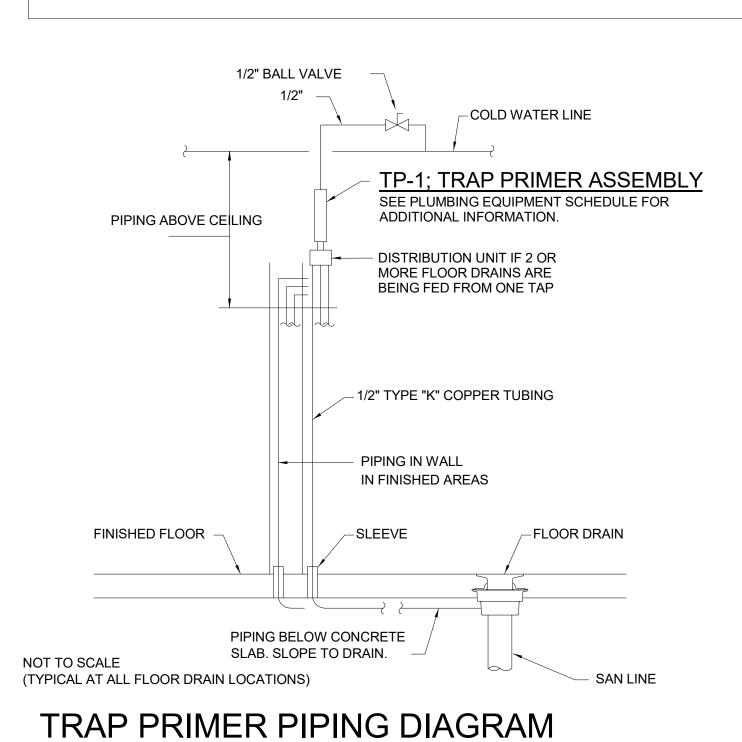


GWH-1a & 1b; GAS WATER HEATER PIPING DIAGRAM

PLUMBING EQUIPMENT **GWH-1A & B; GAS-FIRED WATER HEATER** A.O. SMITH CYCLONE MXI MODEL BTH-250A. WATER HEATER SHALL BE SEALED COMBUSTION DIRECT VENT GAS WATER HEATER. TANK SHALL BE A 100 GALLON CAPACITY, ASME CERTIFIED GLASS LINED STEEL TANK WITH SUPPORT LEGS, HANDHOLE CLEANOUT, BRASS DRAIN VALVE, COATED CONDENSING FLUE COIL. UNIT SHALL BE SUITABLE FOR VENTING WITH 4" MANUFACTURER APPROVED PIPING MANIFOLD. HEATER SHALL BE ASSEMBLED AND TESTED AT FACTORY, HEATER SHALL BE APPROVED FOR 0" CLEARANCES TO COMBUSTIBLES. UNIT SHALL HAVE A BTU INPUT RATING OF 250,000 BTU. UNIT SHALL BE CAPABLE OF DELIVERING 291 GALLONS PER HOUR WITH A 100 DEGREE RISE IN TEMPERATURE. CONTROL SHALL BE AN INTEGRATED SOLID STATE TEMPERATURE AND IGNITIONS CONTROL DEVICE WITH INTEGRAL DIAGNOSTICS, LED FAULT DISPLAY CAPABILITY AND A DIGITAL DISPLAY OF TEMPERATURE SETTINGS. TANK TO BE FOAM INSULATED AND EQUIPPED WITH AN ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. THE WATER HEATER SHALL BE UL LISTED AND EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS OF ASHRAE/IES 90.1-1999, AIR INTAKE AND EXHAUST VENTING BY THE PLUMBING CONTRACTOR PROVIDE HEATERS WITH ACID NEUTRALIZATION KIT AND INTAKE/EXHAUST FLUE KIT. SET WATER HEATER AT 140 DEGREES F. SEE 'GWH-1 GAS WATER HEATER PIPING DIAGRAM' ON SHEET PX.XX. TXT-1; THERMAL EXPANSION TANK (ASME LISTED/APPROVED) ASME LISTED/APPROVED EXPANSION TANKS TO BE SIMILAR TO AMTROL THERM-X-TROL SERIES ST-35-CL. TANK TO BE OF A STEEL SHELL ASME DESIGN WITH A RIGID POLYPROPYLENE (NSF 61) LINER AND HEAVY DUTY RUBBER DIAPHRAGM. LINER AND DIAPHRAGM MECHANICALLY BONDED TO SHELL TO FORM A SEPARATE AIR CHAMBER AND NON-CORROSIVE WATER RESERVOIR. AIR CHAMBER PROVIDED WITH A STANDARD AIR VALVE FITTING. RATED AT 200 DEGREES F MAXIMUM OPERATING TEMPERATURE AND 150 PSIG WORKING PRESSURE. SEE WATER HEATER DIAGRAMS ON SHEET PXXX FOR PIPING. PROVIDE THERMAL EXPANSION TANK FOR EACH WATER HEATER. VERIFY SIZING WITH MANUFACTURER. DO NOT SUPPORT TANK FROM PIPING. BLADDER AIR CHARGE PRESSURE TO BE INCREASED TO THE ACTUAL SYSTEM WORKING PRESSURE IN-FIELD BY THIS CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. HWRP-1; HOT WATER RETURN RECIRCULATING PUMP EQUIVALENT TO B & G MODEL #PL-30 IN-LINE CENTRIFUGAL TYPE PUMP WITH CLOSE COUPLED DRIVE MOTOR, ALL BRONZE CONSTRUCTION, LISTING FOR POTABLE WATER SERVICE AND 150 PSIG WORKING PRESSURE RATING. SEE DOMESTIC WATER HEATER DIAGRAMS ON SHEET P2 FOR RATINGS AND CAPACITIES. PROVIDE RECIRCULATING PUMP INTERFACED WITH WATER HEATER CONTROLS, COORDINATE WITH WATER HEATER MANUFACTURER REQUIREMENTS. LI-1; LINT INTERCEPTOR (PUBLIC LAUNDRY ONLY) SIMILAR TO ZURN MODEL NO. Z-1185-E, SIZE #10 LINT INTERCEPTOR. WITH ACID RESISTANT COATED INTERIOR AND EXTERIOR, NON-SKID SECURED COVER, ALUMINUM LINT INTERCEPTING SECONDARY SCREEN ASSEMBLY AND PERMANENT PRIMARY STRAINING BAFFLE, AND ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED HB-1; EXTERIOR HOSE BIBB EQUIVALENT TO WOODFORD MODEL 67; AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL ASSE 1052 APPROVED DOUBLE CHECK BACKFLOW PREVENTER. LOOSE TEE KEY, HARDENED STAINLESS STEEL OPERATING STEM AND ONE-PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS. BRONZE SEAT AND SEAT WASHER. 3/4" INLET AND 3/4" HOSE OUTLET CONNECTION. CHROME PLATED FINISH. PROVIDE WITH WOODFORD MODEL SL-65 STEM LOCK. COORDINATE INSTALLATION WITH ARCHITECT AND CONSTRUCTION MANAGER. EQUIVALENT TO SIOUX CHIEF MODEL 696-2313 SERIES ABS DOUBLE HOSE BIBB AND DRAIN BOX COMBINATION WITH WATER HAMMER ARRESTERS, QUARTER-TURN VALVES, 1/2" INLET CONNECTIONS, 3/4" MALE HOSE-THREAD OUTLET CONNECTIONS AND 2" DRAIN INLET. PROVIDE LOCKING/CROSS-BRACING IN WALL STRUCTURE AS REQUIRED TO SECURE INSTALLATION. BLOCKING/CROSS-BRACING MATERIALS TO COMPLY WITH GENERAL CONTRACT SPECIFICATIONS. INSTALLATIONS IN RATED STRUCTURES ARE TO BE PROVIDED WITH A LISTED FIRE-STOP ASSEMBLY AS REQUIRED TO MAINTAIN THE APPROPRIATE STRUCTURAL RATING. INSTALL BOX CENTERLINE AT 48" A.F.F. UNLESS OTHERWISE NOTED. TP-1; TRAP PRIMER VALVE ASSEMBLY SIMILAR TO SIOUX CHIEF 695 SERIES DIAPHRAGM TYPE WITH INTEGRAL VACUUM BREAKER & SEDIMENT SCREEN. PROVIDE WYE SPLITTER & DISTRIBUTION MANIFOLDS AS REQUIRED FOR INDIVIDUAL TP SUPPLY TO A MAXIMUM OF EIGHT (8) DRAINS. ASSEMBLY TO BE RATED FOR 250 PSIG WORKING PRESSURE.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SAN	SANITARY (ABV. FLR.)		 DIRECTION OF FLOW
SAN	SANITARY (BEL. FLR.)	XC	HOSE BIBB/WALL HYDRANT
IND	INDIRECT DRAIN WASTE (ABV. FLR.)	C	- PIPE DOWN
IND	INDIRECT DRAIN WASTE (BEL. FLR.)	0	- PIPE UP
—— STM ——	PRIMARY STORM DRAIN (ABV. FLR.)		PIPE BRANCH TOP CONN.
STM	PRIMARY STORM DRAIN (BEL. FLR.)		PIPE BRANCH BOTTOM CONN.
—— OD ——	OVERFLOW STORM DRAIN (ABV. FLR.)		PIPE CAP (OR PLUG)
OD	OVERFLOW STORM DRAIN (BEL. FLR.)		THERMOMETER
	SANITARY VENT	\bigcirc	PRESSURE GAUGE
—— W ——	WATER SERVICE LINE	○ C	P-TRAP (PLAN VIEW)
CW	DOMESTIC COLD WATER	<u>co</u>	 WALL OR EXPOSED CLEANOUT
		<u>co</u>	 FLOOR OR GRADE CLEANOUT
		VTR	VENT-THRU-ROOF
— 140HW —	DOMESTIC 140F HOT WATER	<u>FD</u> ∭———	- FLOOR DRAIN
—— 140HWR ——	DOMESTIC 140F HOT WATER RETURN 7"-10" WC NATURAL GAS	FS 🗑	- FLOOR SINK
— 2PSI G —	2 PSI NATURAL GAS	\otimes	CURB BOX & VALVE
D	DRAIN		JANITOR OR SHOWER
(R)	EXISTING WORK TO BE REMOVED		FAUCET/HEAD LOCATION
 	BALL VALVE	↓ 2	PIPE THRU FLOOR AS SHOWN
—— [BUTTERFLY VALVE		CONNECT TO EXISTING
	OS&Y GATE VALVE	(#)	PLAN CODED NOTE NUMBER
——————————————————————————————————————	PLUG VALVE/GAS COCK	#/	TEAN CODED NOTE NUMBER
	COMB. BALANCE/SHUTOFF VALVE	(#)	EQUIPMENT ITEM NUMBER
	PRESSURE REDUCING VALVE	A	CTA CIZ CVAAD OI
	SOLENOID VALVE	SHEET	STACK SYMBOL
	CHECK VALVE		
	Y-TYPE STRAINER	SHEET	RISER SYMBOL
	PIPE FLANGES		
 	PIPE UNION		
•	PETE'S PLUG		

PLUMBING LEGEND



PLUMBING ABBREVIATIONS				
AB.	ABOVE	GEN.	GENERAL	
A.F.F.	ABOVE FINISHED FLOOR	H.B.	HOSE BIBB	
APPROX.	APPROXIMATELY	HTR.	HEATER	
BEL.	BELOW	HTG.	HEATING	
BLDG.	BUILDING	INV. ELEV.	INVERT ELEVATION	
C.B.	CATCH BASIN	INT.	INTERIOR	
CHEM.	CHEMICAL	J.R.	JANITORS RECEPTOR	
C.I.	CAST IRON	LAV.	LAVATORY	
CLG.	CEILING	MECH.	MECHANICAL	
CONC.	CONCRETE	PLBG.	PLUMBING	
CO.	CLEAN OUT	PRESS.	PRESSURE	
CONN.	CONNECT	REQD.	REQUIRED	
CONTR.	CONTRACTOR	R.D.	ROOF DRAIN	
DTL.	DETAIL	RM.	ROOM	
DIA.	DIAMETER	SH.	SHOWER	
D.F.	DRINKING FOUNTAIN	S.S.	SERVICE SINK	
DN.	DOWN	THERM.	THERMOMETER	
D.S.	DOWNSPOUT	T.P.	TRAP PRIMER	
ELEC.	ELECTRICAL	TYP.	TYPICAL	
E.W.C.	ELECTRIC WATER COOLER	UR.	URINAL	
EX.	EXISTING	VAC.	VACUUM	
EXT.	EXTERIOR	V.T.R.	VENT THRU ROOF	
FLR.	FLOOR	W.	WASTE	
F.D.	FLOOR DRAIN	W/	WITH	
F.S.	FLOOR SINK	wc	WATER CLOSET	
FURN.	FURNISH	W.H.	WALL HYDRANT	

PLUMBING NOTES

REFER TO ARCHITECTURAL DOCUMENTATION FOR ADDITIONAL SCOPE/INFORMATION REGARDING DEMOLITION/REMODELING WORK, INCLUDING IDENTIFICATION OF AREAS AND ITEMS/ELEMENTS INVOLVED, AS WELL AS INFORMATION OF BOTH A GENERAL AND SPECIFIC

UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE PLUMBING CONTRACT NOT SPECIFICALLY INTENDED OR IDENTIFIED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE IN- STALLED WITHIN THE

ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS, OR AT BOTTOM OF OVERHEAD SUPPORT STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS INDICATED

THE PLUMBING CONTRACTOR IS TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE PROJECT IN ADVANCE OF WORK (INCLUDING FABRICATION). THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGERS, RODS, CLAMPS, ETC.. AS REQUIRED FOR PROPER INSTALLATION, SUPPORT, AND COORDINATION WITH WORK PROVIDED UNDER SEPARATE CONTRACT. UNLESS INDICATED OTHERWISE IN PROJECT SPECIFICATIONS OR BY THE PIPE MATERIAL MANUFACTURER, SUPPORT PIPING AS FOLLOWS:

A. CAST IRON PIPING (NOT IN EARTH); 5 FT. CENTERS B. STEEL PIPING: 10 FT. CENTERS

C. COPPER PIPING; 8 FT. CENTERS D. PLASTIC PIPING; 4 FT. CENTERS

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.

LAYOUT AND INSTALLATION OF PLUMBING CONTRACT PIPING, EQUIPMENT, ITEMS AND ELEMENTS INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURE AND ALL OTHER WORK PROVIDED UNDER SEPARATE CONTRACT.

COORDINATE EXACT LOCATION AND INSTALLATION OF ALL PLUMBING UTILITIES REQUIRED AND PROVIDED FOR WORK UNDER SEPARATE CONTRACT WITH THE APPROPRIATE CONTRACTOR(S) IN ADVANCE OF WORK. THIS INCLUDES SUPPLY AND DRAIN ELEMENTS, FOR DIRECT (PIPED) AND/OR INDIRECT (FLOOR/HUB DRAIN, AIR GAP, ETC.) CONNECTION/SERVICE.

9. RUN ALL WATER LINES LEVEL.

ROUGH IN ALL PIPING (SUPPLY, RETURN, WASTE, DRAIN, ETC.) FOR FIXTURES/EQUIPMENT INSTALLATION THRU OR ON FACE OF WALL (AS APPLICABLE), AND TERMINATE WITH SHORT PIPE NIPPLE AND CAP. ROUGH INS AT EXTERIOR WALLS (IF ANY) TO BE ON "WARM" SIDE OF INSULATION ASSEMBLY, AS REQUIRED FOR NON-FRÈEZE INSTALLATION.

. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE VILLAGE OF BEVERLY OHIO BUILDING CODE, INCLUDING APPLICABLE PLUMBING, MECHANICAL AND HANDICAP ACCESSIBILITY PROVISIONS

12. PROVIDE CLEANOUTS AS FOLLOWS:

A. AT THE BASE OF ALL STORM DOWNSPOUTS AND SANITARY STACKS. B. IN ALL HORIZONTAL STORM AND SANITARY PIPING AT INTERVALS NOT TO EXCEED 100 L.F. IN

AT EACH CHANGE OF DIRECTION BY STORM AND SANITARY PIPING BELOW GRADE OR AT THE LOWEST POINT OF THE HORIZONTAL DRAINAGE SYSTEM GREATER THAN 45 DEGREES, UNLESS ANOTHER CLEANOUT IS WITHIN 40 FT. DEVELOPED LENGTH.

D. AT ALL STORM AND SANITARY PIPING BUILDING EXIT POINTS, AND/OR BUILDING SEWER

13. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMB- ING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN ACCESSIBLE LOCATIONS.

E. AT CONNECTION POINTS TO EXISTING STORM, SANITARY AND VENT PIPING (TEST TYPE

14. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CASEWORK, EQUIPMENT AND OTHER ITEMS/ELEMENTS PROVIDED UNDER SEPARATE CONTRACT. INCLUDING EXACT LOCATIONS AND UTILITY CONNECTION REQUIREMENTS. COORDINATE PLUMBING UTILITY WORK AS REQUIRED IN ADVANCE, INCLUDING PLACEMENT OF FITTINGS, ACCESSORIES, APPURTENANCES, DRAINS, ET

15. VERIFY THE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR ALL DRAINS WITH THE ARCHITECTURAL AND STRUCTURAL DOCUMENTATION FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND STRUCTURE AT EACH DRAIN. COORDINATE INSTALLATION WITH THE APPROPRIATE

CONTRACTOR. FINAL INSTALLATION AND LOCATION SUBJECT TO APPROVAL. 7. UNLESS INDICATED OTHERWISE, BUILDING DRAIN (STORM, SANITARY) TIE-INS ARE PROVIDED AT 5 FT. BEYOND FACE OF EXTERIOR PERIMETER STRUCTURE AND CONTINUED TO SITE UTILITY ELEMENTS UNDER SEPARATE CONTRACT. COORDINATE/CONFIRM LOCATIONS (INCLUDING

INVERT ELEVATION) WITH THE SITE UTILITY CONTRACTOR IN ADVANCE. 18. NO PLUMBING PIPING IS TO BE RUN THRU OR ABOVE THE FOLLOWING AREAS. ELECTRICAL SWITCHGEAR ROOMS, ELECTRICAL UTILITY ROOMS/CLOSETS, ELEVATOR SHAFTS, ELEVATOR MACHINE ROOMS, TELEPHONE/COMMUNICATION ROOMS/CLOSETS, UPS EQUIPMENT ROOMS, BATTERY STORAGE AND/OR CHARGING ROOMS, DATA PROCESSING AND/OR STORAGE ROOMS;

19. PLUMBING PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN. 30" WIDE), UNDER ANY CIRCUMSTANCES.

RESULT OF ACCIDENTAL DAMAGE TO, OR DETERIORATION OF, PIPING.

OR ANY SIMILAR TYPE AREAS SENSITIVE TO POTENTIAL WATER LEAKAGE OR DISCHARGE AS A

A. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.

PLUMBING FIXTURE SCHEDULE

1. UNLESS INDICATED OTHERWISE, THE ARCHITECT SHALL SELECT THE FIXTURE COLOR/FINISH

FROM THE MANUFACTURER'S FULL RANGE OF STANDARD OPTIONS. 2. UNLESS INDICATED OTHERWISE, ALL EXPOSED METALLIC COMPONENTS TO BE FURNISHED WITH POLISHED CHROME FINISH, INCLUDING FAUCETS, TRAPS, STOPS, PIPING, ETC.

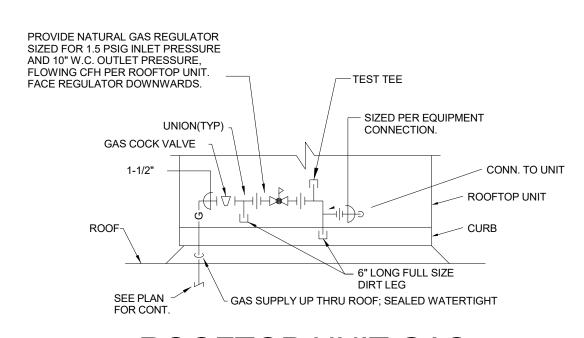
3. UNLESS INDICATED OTHERWISE, ALL EXPOSED PIPING SHALL BE FURNISHED WITH POLISHED CHROME FINISH BRASS ESCUTCHEONS AT ALL WALL/CABINET PENETRATIONS AND FIXTURE

4. UNLESS INDICATED OTHERWISE, ALL HARD-WIRED FIXTURES THAT ARE 120V POWER WIRING TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ALL LOW-VOLTAGE WIRING FROM TRANSFORMER TO SOLENOID VALVE TO BE PROVIDED BY THE PLUMBING CONTRACTOR. 5. FIXTURES TO MEET LEED SPECIFICATIONS.

FIXTURE	MANUFACTURER	REMARKS	PIPE	
-			CW	HW
WC-1 HANDICAP ACCESS-	AMERICAN STAN- DARD/SLOAN/ BEMIS/ZURN	FIXTURE; AMERICAN STD. NO. 3351.101 AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER WALL HUNG TOP SPUD TOILET PROVIDE WITH EVERCLEAN COATING.	1"	
IBLE)		CONTROLS; SLOAN REGAL 111 MANUAL FLUSH VALVE (1.6 GPF)		
		SEAT; BEMIS MODEL NO. 1655SSCT OPEN FRONT LESS COVER, ELONGATED, EXTRA HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT. WITH SELF-SUSTAINING CHECK HINGES.		
		CARRIER; ZURN SERIES Z1200 FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESS REQUIREMENTS.		
<u>WC-1</u>	AMERICAN STAN- DARD/SLOAN/ BEMIS/ZURN	FIXTURE; AMERICAN STD. NO. 3351.101 AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER WALL HUNG TOP SPUD TOILET PROVIDE WITH EVERCLEAN COATING.	1"	
		CONTROLS; SLOAN REGAL 111 MANUAL FLUSH VALVE (1.6 GPF)		
		SEAT; BEMIS MODEL NO. 1655SSCT OPEN FRONT LESS COVER, ELONGATED, EXTRA HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT. WITH SELF-SUSTAINING CHECK HINGES.		
		CARRIER; ZURN SERIES Z1200		
UR-1 (HANDICAP ACCESS-	AMERICAN STD/ SLOAN/ ZURN	FIXTURE; AMERICAN STD. NO. 6590.001EC WASHBROOK FLOWISE LOW CONSUMPTION URINAL. PROVIDE WITH EVERCLEAN COATING. OPERATING RANGE OF 0.125 GPF TO 1.0 GPF.	3/4"	
IBLE)		CONTROLS; SLOAN REGAL 186 MANUAL FLUSH VALVE (0.5 GPF)		
		CARRIER; ZURN SERIES Z1221 FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESS REQUIREMENTS.		
<u>LAV-1</u> (HANDICAP	AMERICAN STD/ LEONARD/	FIXTURE; AMERICAN STD. LUCERNE WALL-HUNG LAVATORY MODEL 0355.027 VITREOUS CHINA W/ FAUCET HOLES AT 4" CENTERS. COMES WITH FRONT OVERFLOW DRAIN.	1/2"	1/2"
ACCESS- IBLE)	McGUIRE/ ZURN	CONTROLS; SLOAN SF2350 BATTERY-POWERED DECK-MOUNTED MID INTEGRATED BASE BODY FAUCET. FLOW RATE: 0.35 GPM.		
		TW MIXER; SIMILAR. TO LEONARD NO. 170 THERM. MIXER FOR SGL. FAUCET; NO. 270 FOR MULTIPLE FAUCETS (MAX. 6 SIDE BY SIDE IN A SINGLE RM.). PROVIDE W/ INLET CHECK/STOPS & ASSE 1070 LISTING. INSTALL MIXER BELOW FIXTURE OUT OF HANDICAP AC- CESS CLEARANCE SPACE. MIXERS IN PUBLIC TOILET RM'S. TO BE WITHIN ACCESSIBLE CASEWORK OUT OF SIGHT. SET FOR 105 DEGREES F. TW SUPPLY TO FAUCET.		
		DRAIN; AMERICAN STD. DRAIN MODEL NO. M953455-0020A STAINLESS STEEL FINISH WITH GRID STRAINER. W/ OVERFLOW		
		TRAP; McGUIRE MODEL 8902 1 1/4"x1 1/2" 17 GA. P-TRAP, CHROME PLATED		
		STOP(S); McGUIRE MODEL 2165LK 1/2" LAVATORY SUPPLIES W/ LOOSE KEY BRASS ANGLE STOPS & COPPER FLEX TUBE RISERS. ALL CHROME PLATED		
		COVER; McGUIRE PRO-WRAP SERIES FOR EXPOSED SUPPLY AND DRAIN FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESS REQUIREMENTS.		
EWC-1 (HANDICAP ACCESS-	ELKAY/ZURN/ McGUIRE	FIXTURE; ELKAY SPLIT LEVEL SURFACE MTD. WATER COOLER; NO. EZSTL8WSLK WITH INTEGRAL FILTER & BOTTLE FILLER (120V 60HZ) CARRIER; ZURN SERIES Z1225	1/2"	
IBLE)		TRAPS; McGUIRE MODEL 8902 1 1/4"x1 1/2" 17 GA. P-TRAP, CHROME PLATED STOP(S); McGUIRE MODEL 2166 1/2" CLOSET SUPPLY W/ WHEEL		
		HANDLE BRASS ANGLE STOP AND COPPER FLEX TUBE RISER. ALL CHROME PLATED		
		FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESS REQUIREMENTS.		
SH-1 (HANDICAP ACCESS- IBLE)	AQUATIC	ENCLOSURE; AQUATIC MODEL NO. 13636BFSBTTR-WH ACRYLX 1-PIECE 36" X 36" INCLUDES 1 1/4" DIAMETER STAINLESS L-SHAPED GRAB BAR; WHITE CUSHIONED, L-SHAPED FOLD-UP SEAT; PRESSURE BALANCING MIXING VALVE; HAND-HELD SHOWER ASSEMBLY; AND STAINLESS STEEL GRATE. GRAB BAR, MIXING VALVE AND HANDHELD SHOWER INSTALLED OPPOSITE SEAT PER ADA GUIDELINES.	1/2"	1/2"
		TRAP; SCHEDULE 40 PVC DWV P-TRAP		
		ENTIRE INSTALLATION TO BE HANDICAP ACCESS COMPLIANT.		
<u>SH-2</u>	AQUATIC/ MOEN	ENCLOSURE; AQUATIC MODEL NO. 13636STT 36 X 36 ACRYLX ALCOVE CENTER DRAIN ONE-PIECE SHOWER IN WHITE	1/2"	1/2"
		CONTROLS; MOEN SERIES NO. 8375 SHOWER TRIM W/ 1222HD SERIES VALVE. Temperature valve has ADA compliant lever style handle. ADJUSTABLE TEMPERATURE LIMIT STOP TO CONTROL MAX HOT WATER TEMP. 2.5 GPM MAX FLOW RATE. CHROME FINISH.		
		TRAP; SCHEDULE 40 PVC DWV P-TRAP		
		ENTIRE INSTALLATION TO BE HANDICAP ACCESS COMPLIANT.		
MS-1	FIAT	FIXTURE; FIAT MODEL NO. MSB-2424 (MOLDED STONE) WITH INTEGRAL DRAIN	1/2"	1/2"
		CONTROLS; FIAT MODEL NO. 830-AA WITH INTEGRAL STOPS, CHECK VALVE & VAC. BRKR.		
		TRAP; CAST IRON OR COPPER 3" P-TRAP		
		OTHER; FIAT MODEL NO. E-77-AA VINYL BUMPER GUARDS; FIAT MODEL NO. MSG-2424 STAINLESS STEEL WALL GUARDS FIAT MODEL NO. 889-CC STAINLESS STEEL MOP HANGER		

DRAIN & CLEANOUT SCHEDULE

DES.	LOCATION	DESCRIPTION
DN-1	FINISHED EXTER- IOR STRUCTURE ABOVE GRADE	ZURN MODEL NO. ZARB-199-SS DOWNSPOUT NOZZLE WITH THREADED INLET, WALL FLANGE, OUTLET NOZZLE AND NATURAL BRONZE FINISH. FURNISH WITH STAINLESS STEEL SCREEN AT OPENING. SIZE AS INDICATED ON DRAWINGS.
FD-1	FLOOR DRAIN	ZURN ZN-415B CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEP-HOLES, BOTTOM CAULK OUTLET WITH TYPE B SIZE 6" DIAMETER NICKEL BRONZE ADJUSTABLE STRAINER. FURNISH WITH CLAMPING COLLAR EXCEPT FLOOR DRAINS IN ONGRADE LOCATIONS.
FD-2	MECHANICAL/ UTILITY AREAS	ZURN MODEL NO. Z-610 CAST IRON FLOOR DRAIN WITH SECONDARY DRAINAGE/AN-CHOR FLANGE, WEEPHOLES, COATED FRAME & GRATE, 12" SQUARE TOP WITH SLOTTED OPENINGS, REMOVABLE SEDIMENT BUCKET & BOTTOM GASKET CONNECTION OUTLET. DRAINS IN STRUCTURES ABOVE GRADE TO BE FURNISHED WITH CLAMPING COLLAR.
RD-1/ OD-1	FLAT ROOF AREA (PRIMARY AND OVERFLOW)	ZURN Z100-DP-VP(-89) FLOFORCE HIGH EFFICIENT FLOW PERFORMING ROOF DRAIN WITH SMOOTH FUNNEL-SHAPED INTERIOR SURFACE. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, LOW SILHOUETTE POLY-DOME, TOP-SET DECK PLATE AND VANDAL PROOF SECURED TOP. PROVIDE 2" HIGH WATER DAM IN OVERFLOW APPLICATIONS. SIZE AS INDICATED ON PLANS.
C.O.	WALLS OF FINISHED AREA	Z-1446 WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND ABS PLASTIC USE CLEANOUT TEE AND PROVIDE CLEANOUT AND ACCESS COVER SIMILAR TO ZURN THREADED PLUG. SIZE TO SUIT CLEANOUT.
C.O.	FLOORS OF FINISHED AREA	PROVIDE FRAME AND ACCESS COVER SIMILAR TO ZURN ZN-1400 WITH GAS TIGHT BRONZE PLUG, ROUND SCREWDOWN ACCESS COVER BOX WITH POLISHED SCORIATED TOP AND ANCHOR LUGS.
C.O.	OUTSIDE	ZURN Z-1400-HD CAST IRON ADJUSTABLE CLEANOUT, COATED CAST IRON INTERNAL PLUG WITH LEAD SEAL AND HEAVY-DUTY LOOSE-SET SCORIATED ROUND CAST IRON TRACTOR COVER SIZE TO SUIT CLEANOUT.
C.O.	ALL OTHER CLEANOUTS	ZURN Z-1470 FLUSH WITH FLOOR OR WALL AND HAVE COUNTER-SUNK BRONZE HEADS.



ROOFTOP UNIT GAS CONNECTION DETAIL NOT TO SCALE

	PIPING SCHEDULE			
PIPING TYPE	DESCRIPTION			
DOMESTIC HOT WATER, DOMESTIC COLD WATER	TYPE L HARD TEMPER COPPER PIPE WITH WROT COPPER SOCKET SOLDER FITTINGS OR PROPRESS FITINGS. SOLDER MATERIALS TO BE "LEAD FREE".			
AND TRAP PRIMER SUPPLY	PIPING TO BE RATED FOR 125 PSIG WORKING PRESSURE AT 140 DEGREES F. MAXIMUM WATER TEMPERATURE.			
	ALL COPPER AND PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN FRAMED STRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN PIPING IS WITHIN 1 1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.			
SANITARY WASTE, SANIT- ARY VENT AND STORM DRAIN	ABOVE SLAB AND UNDERGROUND PIPING TO BE STANDARD WEIGHT CAST IRON DWV NO-HUB PIPE WITH CAST IRON DWV NO-HUB FITTINGS AND NEOPRENE GASKET STAINLESS STEEL BAND COUPLINGS, OR SCHEDULE 40 PVC DWV PIPE WITH PVC DWV SOCKET SOLVENT FITTINGS.			
	NOTE THAT PVC PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS.			
	ALL PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN FRAMED STRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN PIPING IS WITHIN 1 1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.			

PING SCHEDULE	
DESCRIPTION	
TEMPER COPPER PIPE WITH WROT COPPER SOCKET SOLDER FITTINGS OR ITINGS. SOLDER MATERIALS TO BE "LEAD FREE".	
RATED FOR 125 PSIG WORKING PRESSURE AT 140 DEGREES F. MAXIMUM WATER RE.	
AND PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS TRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN IT 1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL HOHIO PLUMBING CODE REQUIREMENTS.	
AND UNDERGROUND PIPING TO BE STANDARD WEIGHT CAST IRON DWV NO-HUB AST IRON DWV NO-HUB FITTINGS AND NEOPRENE GASKET STAINLESS STEEL BAND OR SCHEDULE 40 PVC DWV PIPE WITH PVC DWV SOCKET SOLVENT FITTINGS.	C
PVC PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE R ARCHITECTURAL PLANS.	
PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN UCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES IS WITHIN 1 1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE TES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.	

CONVOCATION

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1937 EDISON DRIVE PIQUA, OHIO 45653

EDISON STATE COMMUNITY COLLEGE





WWW.FHAI.COM 128 WEST MARKET STREET, CELINA, OHIO 45822

CONSTRUCTION DOCUMENTS



DRAWN BY: JAH PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

REV. No.	DESCRIPTION	DATE

PLUMBING NOTES & DETAILS

P200

PRATER ENGINEERING ASSOCIATES Dublin, Ohio 43016 DESIGNED BY DRAWN BY CHECKED BY JOB NUM. KJO

CONVOCATION CENTER EXPANSION

1937 EDISON DRIVE PIQUA, OHIO 45653

EDISON STATE
COMMUNITY COLLEGE



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CONSTRUCTION DOCUMENTS



DRAWN BY: Author
PROJECT NUMBER: 223193.00
PROJECT ISSUE DATE: 2-22-2024

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PRATER

ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY
KJO

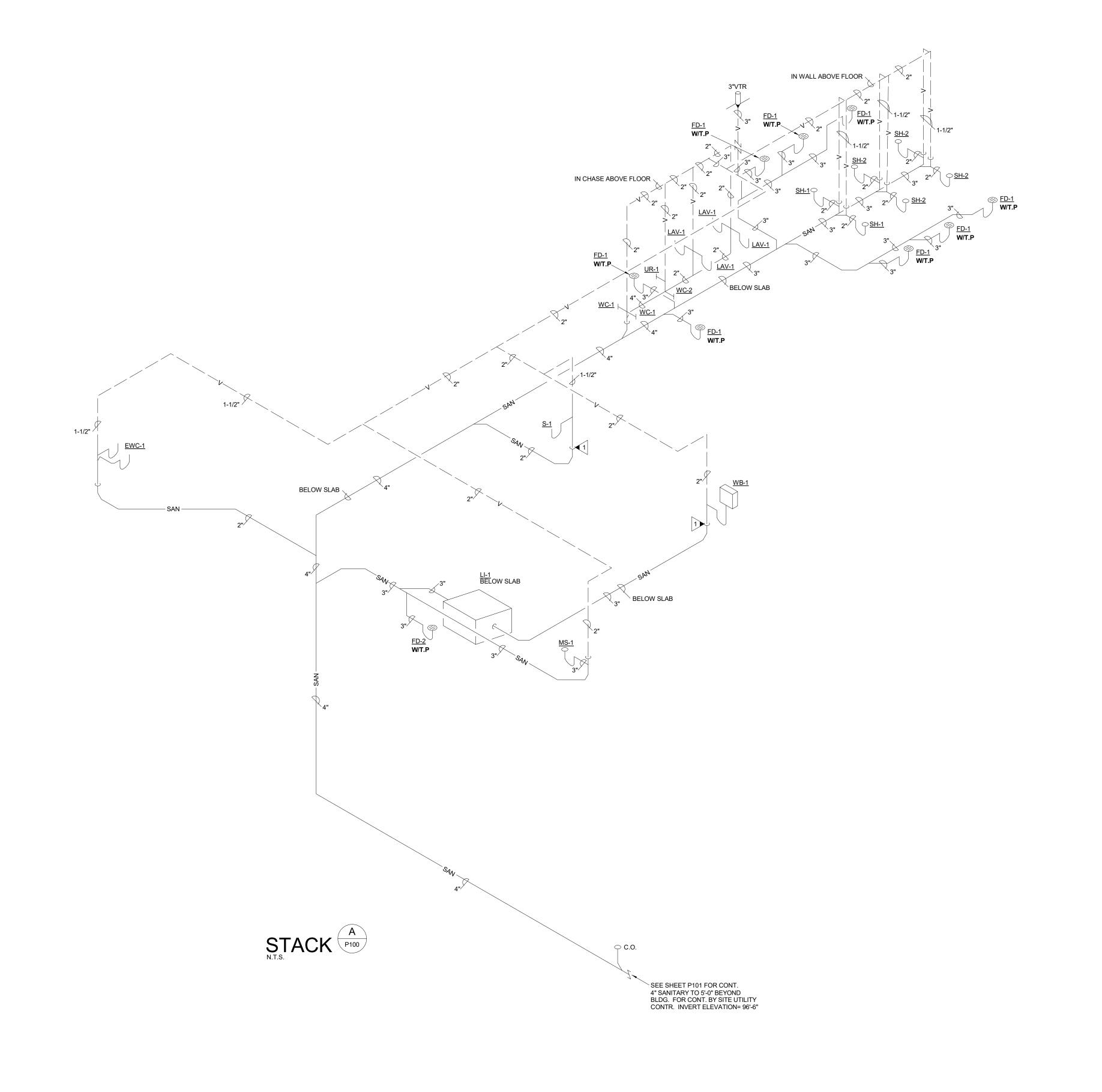
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DOB NUM.
23355

PLUMBING ISOMETRICS

P300



EQUIPMENT WHICH IS PART OF MECHANICAL SYSTEMS.

- GENERAL AND SPECIAL CONDITIONS OF AIA (AMERICAN INSTITUTE OF ARCHITECTS) AND OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
- THE REQUIREMENTS SET FORTH UNDER "GENERAL CONDITIONS" "MODIFICATIONS TO GENERAL CONDITIONS" AND "SPECIAL CONDITIONS" ARE
- THIS CONTRACT SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL. ELECTRICAL AND GENERAL TRADE WORK IN PLACE AND WORK TO BE PUT INTO PLACE PRIOR TO BIDDING. REROUTING OF DUCTWORK, PIPING, AND EQUIPMENT, AS REQUIRED TO MISS THIS WORK SHALL BE ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
- ALL MOTORS FOR SUCH EQUIPMENT (IF AND WHERE SPECIFIED ON THE DRAWINGS) SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT. CONTROLS FOR SUCH MOTORS SHALL BE FURNISHED UNDER THIS CONTRACT AND INSTALLATION OF CONTROLS AND ALL ELECTRICAL WIRING NOT SHOWN ON ELECTRICAL DRAWINGS, SHALL BE PERFORMED

ORDINANCES, PERMIT CERTIFICATES AND OWNER REQUIREMENTS. ALL WORK UNDER THIS CONTRACT SHALL BE INSTALLED IN FULI ACCORDANCE WITH THE OWNER'S REQUIREMENTS, ALL LAWS, ORDINANCES AND ALL REGULATIONS OF THE STATE, COUNTY, AND MUNICIPALITY WHICH IN ANY WAY AFFECTS THIS WORK. THE ARCHITECT WILL OBTAIN THE GENERAL BUILDING, MECHANICAL, ELECTRICAL AND PLUMBING PERMITS. ANY OTHER PERMITS AND CERTIFICATES OF INSPECTION REQUIRED FOR THE PROJECTION WILL BE OBTAINED BY THE CONTRACTOR PERFORMING THE WORK. FEES WILL BE INCLUDED IN THE BID PRICE, ALL WORK SHALL ALSO BE INSTALLED IN ACCORDANCE WITH REGULATIONS OF THE FIRE UNDERWRITERS HAVING JURISDICTION AND LOCAL UTILITIES. CONTRACTOR SHALL ALSO SECURE ANY PERMITS OR PAY ANY FEES TO THE LOCAL UTILITY COMPANIES FOR THE WORK REQUIRED

DRAWINGS

MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATION OF OUTLETS, EQUIPMENT AND PIPING.

- THE EXACT LOCATION OF OUTLIETS FOUIPMENT AND PIPING MAY BE CHANGED FROM TIME TO TIME AS WORK PROGRESSES. UNDER THIS CONTRACT ALL LOCATIONS SHALL BE VERIFIED WITH ALL TRADES AND THAT FHEY ARE ACCORDING TO THE LATEST INFORMATION AVAILABLE. SHOULD THIS NOT BE DONE THE WORK WILL BE CHANGED AT NO ADDITIONAL
- THE OWNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN LOCATION OF EQUIPMENT OF PIPING ARRANGEMENTS UP TO THE TIME OF ROUGH-IN WITHOUT ADDITIONAL COSTS TO THE OWNER.
- THE DRAWINGS AND SPECIFICATION ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIALS OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NO MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED UNDER THIS CONTRACT.
- AS PART OF THIS WORK THE CONTRACTOR SHALL SUBMIT ONE (1) BLUE LINE SET AND ONE SET OF SEPIAS OF AS BUILT DRAWINGS INDICATION THE EXACT OCATION OF ALL WORK INSTALLED. ACCEPTANCE SHALL NOT OCCUR UNTIL RECEIPT OF THESE DRAWINGS IS OBTAINED BY THE OWNER.
- SHOP DRAWINGS
- AS PART OF THIS WORK INCLUDING UNDER EACH MECHANICAL SECTION, WITHOUT CAUSING ANDY DELAY IN WORK, SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SHALL BE SUBMITTED FOR ENGINEER'S REVIEW.
- SUBMITTAL SHALL INCLUDE WIRING DIAGRAMS, PERFORMANCE CURVES AND DATA SPECIFIC TO THIS PROJECT AND BEAR CONTRACTOR'S APPROVAL STAMP CERTIFYING THAT HE HAS VERIFIED CONFORMANCE TO THE CONTRACTUAL DOCUMENTS.
- IN THE ENGINEER'S REVIEW IF SHOP DRAWINGS, REVIEW IS FOR CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND ARRANGEMENT ONLY. COMMENTS, CORRECTIONS OR MARKING SO NOT CONSTITUTE WAIVER OF THE CONTRACT DOCUMENTS REQUIREMENTS. DIMENSIONS, QUANTITIES AND COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CLEANING UP

UNLESS OTHERWISE NOTED. ALL EXCESS MATERIALS AND DEBRIS CAUSED BY THIS WORK SHALL BE COME THE PROPERTY OF THE CONTRACTOR AND PROMPTLY BE REMOVED FROM THE SITE. ALL FIXTURES AND EQUIPMENT NSTALLED SHALL BE THOROUGHLY CLEANED WEEKLY. ALL MOTORS AND EQUIPMENT SHALL BE COVERED OR OTHERWISE PROTECTED FORM CONSTRUCTION DUST AND DEBRIS. NO EQUIPMENT OTHER THAN THOSE DESIGNED TO ARE TO BE EXPOSED TO INCLEMENT WEATHER. TOUCH UP ALL SCRATCHES AND REPAIR ANY DENTS IN EQUIPMENT.

- THE PLUMBING CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS SHOWING ALL OF HIS WORK WITH OTHER TRADES. THIS CONTRACTOR SHALL AGREE WITH OTHER TRADES ON SCALE OF DRAWINGS PRIOR TO ANY WORK CUTTING AND PATCHING
- CUTTING FOR OPENINGS, WHEN NECESSARY, SHALL BE DONE BY THIS CONTRACTOR WITH SUCH TOOLS AND METHODS AS TO PREVENT
- UNNECESSARY DAMAGE TO SURROUNDING AREAS OR EQUIPMENT FILL SPACE IN ALL AREAS PACKING WHERE REQUIRED TO MAINTAIN FIRE RATING OPENINGS SHALL BE TEMPORARILY FIRE STOPPED LINTIL PERMANENT FIRE STOPPING IS DONE. THIS INCLUDES HOLES LEFT DUE TO
- PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH, AND SHALL BE DONE BY THE GENERAL CONTRACTOR.
- NO STRUCTURAL MEMBER WILL BE CUT INTO WITHOUT THE EXPRESSED
- PERMISSION THE OWNER'S REPRESENTATIVE.

INSTRUCTIONS TO OWNER LOCATION OF EQUIPMENT AND EXPLANATION OF WHAT IT DOES.

REMOVAL OF PIPING

- REFERENCE TO "OPERATING INSTRUCTION MANUALS" FOR RECORD AND
- COORDINATION OF WRITTEN AND VERBAL INSTRUCTION SO THAT EACH IS UNDERSTOOD BY ALL PERSONNEL.
- EXPLANATION OF TEMPERATURE CONTROL SYSTEM INCLUDING PANELS. SPECIFIC MAINTENANCE TO BE PERFORMED BY OWNER.
- FURNISH ONE (1) COPY OF THE PRINTED OPERATING AND MAINTENANCE INSTRUCTIONS FOR THE MECHANICAL SYSTEMS FOR REVIEW. COPY SHAL BE NEAT, LEGIBLE AND BOUND IN A HARDBACK 3-RING NOTEBOOK. AFTER FINAL APPROVAL. PROVIDE FOUR (4) COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR SUBMITTAL TO OWNER. INSTRUCTIONS SHALL CONSIST OF THE FOLLOWING ITEMS:
- TITLE PAGE: TITLE OF PROJECT, ADDRESS, DATE OF SUBMITTAL, NAME AND ADDRESS OF CONTRACTOR, NAME OF ASSOCIATE SECOND PAGE: INDEX OF MANUAL CONTENTS.
- FIRST SECTION: A COPY OF EACH APPROVED SHOP DRAWING AND
- SUBMITTAL WITH AN INDEX AT THE BEGINNING OF THE SECTION. SECOND SECTION: A LIST OF ALL EQUIPMENT USED ON THE PROJECT.
- TOGETHER WITH SUPPLIER'S NAME AND ADDRESS. MANUFACTURER'S MAINTENANCE MANUALS FOR EACH ITEM OF EQUIPMENT FURNISHED UNDER THIS CONTRACT. MANUALS SHALL INCLUDE SUCH ITEMS AS PARTS LIST, DETAILED LUBRICATION INSTRUCTIONS, PROCEDURES FOR PERFORMING NORMAL MAINTENANCE FUNCTIONS, PRELIMINARY TROUBLE

SHOOTING PROCEDURES AND WIRING DIAGRAMS.

- COMPLETE WIRING DIAGRAMS FOR THE MECHANICAL SYSTEMS AS ACTUALLY WIRED INCLUDING CONTROL AND INTERLOCK WIRING BRIEF BUT COMPLETE INSTRUCTIONS FOR START-UP, SHUT- DOWN AND
- ROUTINE MAINTENANCE OF EACH SYSTEM. ROUTINE AND 24-HOUR EMERGENCY INFORMATION:
- NAME, ADDRESS AND TELEPHONE NUMBER OF SERVICING AGENCY.
- INCLUDE NAMES OF PERSONNEL TO BE CONTACTED FOR SERVICE
- FRAME ONE (1) COPY OF BRIEF START-UP, SHUT-DOWN AND ROUTINE
- MAINTENANCE INSTRUCTIONS AND COMPLETE SYSTEM WIRING DIAGRAMS UNDER GLASS AND MOUNT ON THE EQUIPMENT ROOM WALL. TEMPERATURE CONTROL SCHEMATICS MAY BE LAMINATED WITH PLASTIC AT THE CONTRACTOR'S OPTION.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING AROUND ALL OPENINGS FOR PIPES DUCTS CONDUITS FTC. INSTALLED BY HIM AT ALL FIRE WALLS, FIRESTOPPING SHALL BE PERFORMED BY AN INSTALLER WHO HAS BEEN 'RAINED BY THE MANUFACTURER. OR MANUFACTURER'S REPRESENTATIVE. IN THE INSTALLATION PROCEDURES BASED ON PUBLISHED UL TESTED FIRE STOP
- FIRESTOPPING SHALL MEET THE REQUIREMENTS OF ASTM F-814 OR UL 1479 FIRE TESTS BY A RECOGNIZED TESTING AGENCY. FIRESTOPPING SHALL ALSO CONFORM O THE FOLLOWING GOVERNING CODES; OHIO BUILDING CODE, NEPA 101 LIFE SAFETY CODE AND NFPA 70 - NATIONAL ELECTRIC CODE.

AND SEALERS AS REQUIRED.

- a. CLEAN PENETRATION HOLE OF DIRT, LOOSE MATERIALS AND FOREIGN MATTER WHICH MAY AFFECT BOND OR INSTALLATION REMOVE COATINGS SUCH AS PAINT, CURING COMPOUNDS, WATER REPELLENT
- 2. INSTALL BACKING MATERIALS TO PREVENT LIQUID MATERIAL LEAKAGE.

4. APPLICATION

- a. PREPARE AND APPLY PENETRATION SEALING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT FIRESTOPPING IS DEPOSITED TO FILL AND SEAL HOLES AND OPENINGS.
- c. TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.
- d. PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECTED TO TRAFFIC. PROVIDE INTUMESCENT SEALANT AND COLLARS AT OPENINGS INVOLVING PLASTIC OR INSULATED PIPE SIMILAR TO THE METACAULK SERIES 880 AND 950.
- 6. FIRESTOPPING BY HILTI, DOW CORNING, 3M, OR METACAULK MAY BE FURNISHED AT THE CONTRACTOR'S OPTION

GUARANTEE

ALL LABOR AND MATERIALS FURNISHED LINDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FORM THE DATE OF FINAL ACCEPTANCE BY THE OWNER WHICH WILL COMMENCE UPON THE FINAL INSPECTION BY THE ENGINEER. DURING THIS TIME, ALL LEAKS, CORRECTION OF ALL THE FAILURES TO SUCH MATERIAL AND THE CORRECTION OF ALL DISCREPANCIES WITH THE PLUMBING CODE, THE CONTRACT DRAWINGS, AND THE PROJECT SPECIFICATIONS SHALL BE DONE UNDER THIS CONTRACT AT NO ADDITIONAL EXPENSE TO THE OWNER.

RECORD DRAWINGS . THIS CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM CONTRACT DRAWINGS AND SPECIFICATIONS. HE SHALL NEATLY AND CORRECTLY ENTER IN COLORED PENCIL ANY DEVIATIONS ON THE BLUEPRINTS OR BLUELINE DRAWINGS. AT COMPLETION OF THE PROJECT DELIVER DRAWINGS TO OWNER'S

PLUMBING REFERENCES APPLICABLE CONSTRUCTION CODES, STANDARDS AND GUIDELINES FOR ALL PLUMBING CONTRACT ELEMENTS. INCLUDING BUT NOT LIMITED TO THE

- a. STATE OF OHIO, OHIO BUILDING CODE, CBC, INCLUDING THE STATE OF OHIO
- PLUMBING CODE b. CITY OF PIQUA BUILDING CODE. INCLUDING PLUMBING. FUEL GAS MECHANICAL. HANDICAP ACCESSIBILITY AND ENERGY CONSERVATION PORTIONS THEREOF.
- c. LOCAL BOARD OF HEALTH.
- d. STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (E.P.A.).
- e. NFPA PAMPHLET NO. 54, NATIONAL FUEL GAS CODE.
- f. NFPA PAMPHLET NO. 70, NATIONAL ELECTRIC CODE. GITY OF PIQUA SEWER UTILITY AUTHORITY.
- h. LOCAL GAS UTILITY PROVIDER. AMERICAN GAS ASSOCIATION (AGA) STANDARDS FOR MATERIALS AND

CONSTRUCTION.

- AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) STANDARDS FOR MATERIALS AND CONSTRUCTION.
- AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS FOR PERFORMANCE AND TESTING
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS FOR MATERIALS, CONSTRUCTION AND TESTING. NATIONAL SANITATION FOUNDATION (NSF) STANDARDS FOR MATERIALS AND
- CONSTRUCTION. CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS FOR MATERIAL AND CONSTRUCTION.
- UNDERWRITER'S LABORATORIES (UL) STANDARDS FOR MATERIALS AND CONSTRUCTION. THE MANUFACTURER'S INSTALLATION GUIDELINES AND RECOMMENDATIONS FOR INDIVIDUAL ITEMS, ELEMENTS AND/OR SYSTEM INDICATED HEREIN.
- a. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS, DETAILS, ETC. NECESSARY TO PROVIDE A COMPLETE, OPERATIONAL AND APPROVED PLUMBING SYSTEM. INCLUDING BUT NOT LIMITED TO ALL ITEMS AN FI EMENTS DESCRIBED IN THE PLUMBING SPECIFICATION AND SHOWN ON THE PLUMBING DRAWINGS, AND AS REQUIRED FOR COORDINATION AND/OR INTERFACE WITH WORK UNDER SEPARATE CONTRACT AS INDICATED BY COMPLETE CONSTRICTION DOCUMENTATION PACKAGE.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR SATISFACTORILY ADDRESSING ALL REVIEW AND INSPECTION AUTHORITIES REQUIREMENTS AND DIRECTIVES IN REGARD TO METHODS OF INSTALLATION NECESSARY FOR FINAL APPROVAL.
- PERMITS AND FEES a. UNLESS DIRECTED OTHERWISE BY THE GENERAL CONDITIONS PORTION OF PROJECT DOCUMENTATION THE PLUMBING CONTRACTOR SHALL APPLY FOR AND PAY ANY REVIEW INSPECTION, PERMIT, LICENSE, TESTING AND/OR OTHER SERVICE FEES REQUIRED BY ALL REVIEW/INSPECTION/APPROVAL ALITHORITIES IN

CONNECTION WITH THE WORK UNDER THIS CONTRACT

- PLUMBING UTILITY CONNECTIONS a. PROVIDE PLUMBING SUPPLY, WASTE, DRAIN, VENT, AND ANY OTHER PIPED
- UTILITIES INCLUDED FOR THE PROJECT AS REQUIRED, AS LISTED HEREIN, AND/OR AS SHOWN ON THE PLUMBING DRAWINGS FOR ITEMS FURNISHED AND/OR INSTALLED UNDER SEPARATE CONTRACT REQUIRING SAME. THESE ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING.
- HVAC EQUIPMENT; FINAL CONNECTION (WHERE APPLICABLE) BY
- 2. EQUIPMENT FINAL CONNECTION (WHERE APPLICABLE) AS INDICATED BY PLAN OWNER PROVIDED ITEMS; FINAL CONNECTION (WHERE APPLICABLE) BY THE
- PLUMBING CONTRACTOR. UTILITIES INCLUDED FOR THE PROJECT AS REQUIRED, AS LISTED HEREIN, AND/OR
- ROUGH-IN PLUMBING SUPPLY, WASTE, DRAIN, VENT, AND ANY OTHER PIPED AS SHOWN ON THE PLUMBING DRAWINGS FOR ALL FUTURE ITEMS REQUIRING SAME.

VALVE TAGGING AND CODING

SHALL BE FOLLOWED.

- PROVIDE BRASS TAGS ON ALL VALVES. TAGS SHALL STATE TYPE OF LINE IN WHICH THE VALVE IS INSTALLED (HOT WATER SUPPLY, STEAM, ETC.) AND NUMBER OF VALVE. FURNISH A SCHEDULE OR SCHEDULES OF ALL VALVES TAGGED WITH NUMBER. LOCATION AND PURPOSE OF EACH VALVE AND MOUNT SCHEDULES UNDER GLASS ON EQUIPMENT ROOM WALL, OR ELSEWHERE AS REQUIRED. SCHEDULES SHALL BE LOCATED NEAR AND CONVENIENT TO THE VALVES ON THE
- PIPE LINE STENCIL AND VALVE TAG SCHEDULE AS FOLLOWS: STENCIL DESIGNATION DOMESTIC COLD WATER DOMESTIC HOT WATER D.H.W. **BUILDING SANITARY**
- . IN THE CASE OF REMODELING WORK WHEN A VALVE IDENTIFICATION SYSTEM ALREADY EXISTS, NUMBERING SHALL START WITH THE NEXT NUMBER AFTER THE HIGHEST EXISTING NUMBER.

AFTER EXPOSED PIPING AND INSULATION IS PAINTED, THIS CONTRACTOR

- SHALL APPLY A STENCILED LEGEND, LETTERED WITH THE NAME OF CONTENTS OF PIPING. FLOW DIRECTION ARROWS OF THE SAME COLORS ARE TO BE LOCATED ADJACENT TO THE IDENTIFICATION LEGENDS. SPACING NOT OVER 20' APART AND AT LEAST ONCE IN EACH ROOM, DO NOT USE ADHESIVE MARKERS. TYPE AND COLOR TO MATCH EXISTING. TYPE AND COLOR TO BE APPROVED BY
- 5. VALVE TAGS SHALL BE BRASS, MINIMUM 2" DIAMETER, 16 GAUGE. PRODUCTS GENERAL
- WHERE ITEMS/ELEMENTS ARE INDICATED HEREIN TO BE LISTED/APPROVED. THE INTENT OF THE SPECIFICATION IS THAT SAID ITEM/ELEMENT SHALL BE LISTED BY ALL APPLICABLE MATERIAL/CONSTRUCTION STANDARDS. AND SUBJECT TO FINAL APPROVAL (INCLUDING METHODS OF INSTALLATION) BY ALL REVIEW/INSPECTION/APPROVAL AUTHORITIES.

2. UNLESS INDICATED OTHERWISE, ALL PLUMBING CONTRACT ITEMS/ELEMENTS (PIPE, FITTINGS, VALVES, SPECIALTIES, FIXTURES, EQUIPMENT, ETC.) MATERIALS, CONSTRUCTION, PERFORMANCE, TESTING AND METHODS OF INSTALLATION TO BE AS LISTED/APPROVED BY ALL APPLICABLE MATERIAL/CONSTRUCTION/ INSTALL ATION STANDARDS FOR SAME, AND BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL REVIEW/INSPECTION/ APPROVAL AUTHORITIES. THIS INCLUDES, BUT IS NOT LIMITED TO, THE STANDARDS AND AUTHORITIES REFERENCED IN THIS SPECIFICATION. IN THE ABSENCE OF SUCH STANDARDS AND/OR REQUIREMENTS, THE ITEM/ELEMENTMANUFACTURER'S RECOMMENDATIONS, AS CONFIRMED BY THE PLUMBING CONTRACTOR IN ADVANCE.

DIMENSIONS/TOLERANCES TYPE OF SERVICE/TRANSMISSION MEDIUM (WATER AIR GAS ETC.) AND METHODS OF INSTALL ATION (AS APPLICABLE). AND SHALL BE SO LISTED, FINAL APPROVAL FOR USE IS SUBJECT TO THE REQUIREMENTS OF THE REVIEW AND INSPECTION AUTHORITIES:

 3 - LINESS INDICATED OTHERWISE ALL PLUMBING PIPING SHALL BE IN ACCORDANCE

- a. STEEL PIPE, STEEL MALLEABLE AND CAST IRON FITTINGS AND JOINING METHODS: PER APPLICABLE ASTM/ANSI/ASME STANDARDS. IN ADDITION. WHERE UTILIZED FOR POTABLE WATER SERVICE, ALL ELEMENTS SHALL BE PER APPLICABLE NSF AND ASTM A53 (FOR CARBON STEEL STANDARDS.
- b. PLASTIC PIPE, FITTINGS AND JOINING METHODS; PER APPLICABLE STM/ANSI/ASME/NSF STANDARDS. c. CAST IRON PIPE. FITTINGS AND JOINING METHODS; PER APPLICABLE ASTM/ANSI/ASME/CISPI STANDARDS.
- COPPER/COPPER ALLOY/BRASS PIPE/TUBE, FITTINGS AND JOINING METHODS; PER APPLICABLE ASTM/ANSI/ASME STANDARDS. IN ADDITION, WHERE UTILIZED FOR POTABLE WATER SERVICE, ALL ELEMENTS SHALL BE PER APPLICABLE NSF

ALL PLUMBING CONTRACT ITEMS/ELEMENTS SHALL HAVE THE MANUFACTURER'S MARK OF NAME AND THE QUALITY OF THE PRODUCT OR IDENTIFICATION OF SAME CAST, EMBOSSED, STAMPED OR INDELIBLY MARKED ON EACH ITEM/ELEMENT IN ACCORDANCE WITH THE STANDARDS UNDER WHICH THEY ARE ACCEPTED AND APPROVED PER APPLICABLE CODE(S).

GENERAL PIPING REQUIREMENTS

- WHERE STANDARDS, CODES OR GUIDELINES ARE REFERENCED HERIN AND THROUGHOUT THE PLUMBING CONTRACT DOCUMENTATION, INCLUDING PLANS AND SPECIFICATIONS, THE LATEST VERSION/EDITION SHALL BE APPLIED, UNLESS THE BUILDING CODE REFERENCES ANOTHER VERSION/EDITION, VHICH SHALL TAKE PRECEDENCE.
- REFER TO PROJECT DOCUMENTATION FURNISHED WITH THE COMPLETE CONSTRUCTION PACKAGE IN ADVANCE OF WORK FOR OVERALL COORDINATION AND VERIFICATION OF REQUIREMENTS AT WORK OF OTHER TRADES RELATING TO, INTERFACING WITH, AND/OR IMPACTING WORK IN THE PLUMBING CONTRACT, THIS INCLUDES EXACT LOCATIONS, QUANTITIES. PHYSICAL SIZES, ROUGH-IN DETAILS, PIPE ROUTING, CONNECTION SIZES, ETC., FOR ITEMS INCLUDING BOTH IN THE PLUMBING CONTRACT AND UNDER SEPARATE CONTRACT, COORDINATE INSTALLATION AND INTERFACE REQUIREMENTS WITH THE APPROPRIATE CONTRACTOR(S) IN ADVANCE OF
- INCLUDE ANY MINOR DETAILS. ITEMS AND/OR ELEMENTS ESSENTIAL TO NECESSARY APPROVALS AND SUCCESSFUL OPERATION IN ADDITION TO THE ITEMS SPECIFIED HEREIN AND SHOWN ON THE DRAWINGS.
- AND REQUIREMENTS RELATIVE TO THE PLUMBING CONTRACT PLUMBING ITEMS AND ELEMENTS SHALL BE INSTALLED WITH DUE REGARD TO PRESERVATION OF THE STRENGTH OF STRUCTURAL MEMBERS AND PREVENTION OF DAMAGE TO WALLS, SURFACES AND OTHER STRUCTURES THROUGH INSTALLATION BEARING SUPPORT OF SUBSEQUENT USAGE OF PLUMBING ITEMS AND FLEMENTS NO FRAMING OR OTHER SUPPORT STRUCTURE SHALL BE CUT, NOTCHED OR BORED IN EXCESS OF LIMITATIONS SPECIFIED IN THE BUILDING CODE OR BY THE MANUFACTURER OF THE FRAMING OR OTHER SUPPORT STRUCTURE, AS CONFIRMED IN ADVANCE OF WORK BY THE PLUMBING CONTRACTOR

SEE GENERAL "PLUMBING NOTES" ON DRAWINGS FOR ADDITIONAL CONDITIONS

- ALL PIPING THAT SUPPLIES A FLUSH VALVE, SOLENOID VALVE (OTHER THAN SLOW-CLOSING TYPE), FOOT PEDAL OPERATOR, SPRING RETURN OPERATOR OR OTHER QUICK CLOSING TYPE DEVICE SHALL HAVE A SHOCK ABSORBER INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. UNLESS INDICATED OTHERWISE, WHERE MULTIPLE FIXTURES OR EQUIPMENT IN ADJACENT LOCATIONS (SUCH AS WITHIN A CHASE OR OTHER ENCLOSURE) ARE SUPPLIED BY COMMON PIPING MANIFOLD, A PROPERLY SIZED AND INSTALLED SHOCK ABSORBER MAY BE
- BRANCHES TO FIXTURES WITH THE FOLLOWING SIZES UNLESS OTHERWISE
- a. WATER CLOSETS, TANK 1/2 INCH
- b. ELECTRIC WATER COOLERS 1/2 INCH c. LAVATORIES - 1/2 INCH HW AND CW
- d. SINKS 1/2 INCH HW AND CW
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING DOMESTIC WATER PIPING IN CHASES, ETC. TO INDIVIDUAL FIXTURES. WHERE PIPING SERVES FLUSH VALVES, COLD WATER PIPE SHALL BE RUN FULL SIZE TO END OF PIPE CHASE RUN AND A LISTED SHOCK ABSORBER INSTALLED. WHEN COLD WATER PIPE IS 2" OR ABOVE AND SERVES FLUSH VALVES, THE PIPE MAIN IN THE CHASE CAN ONLY BE REDUCED TO 1-1/2" SIZE. 1/2" HOT WATER PIPE SHALL SERVE UP TO FOUR (4) LAVATORIES. OTHER PIPE SIZING CRITERIA SHALL BE S OUTLINED IN THE CURRENT EDITION OF "ASHRAE FUNDAMENTALS HANDBOOK"
- RUN ALL WATER PIPING LEVEL AND CONCEAL WHEREVER POSSIBLE, PIPING TO BE INSTALLED TO ALLOW COMPLETE DRAIN DOWN OF SYSTEM BACK TO THE MAIN RISER(S), AT BASE OF SYSTEM WHENEVER POSSIBLE, PROVIDE 3/4" DRAINS AT BASE OF RISER(S), AND ANY OTHER TRAPPED OR LOW POINTS WHEN SUCH ARE UNAVOIDABLE DUE TO PROJECT CONDITIONS. 3/4" DRAINS TO CONSIST OF BALL VALVE WITH OUTLET CONNECTION VACUUM BREAKER AS SPECIFIED HEREIN.
- DPERATION OF SYSTEMS. PROVIDE COMBINATION BALANCE/SHUT OFF VALVES CHECK VALVES, THERMOMETERS, AND PETE'S PLUGS FOR EACH BRANCH

1. BALANCE RECIRCULATING BRANCH LINE FLOW AS REQUIRED FOR PROPER

- 2. COORDINATE INSTALLATION WITH STRUCTURE, AND WORK OF OTHER TRADES AT AND ADJACENT TO DOMESTIC WATER SERVICE PIPING INSTALLATION.
- SLEEVE MATERIAL: BLACK STEEL PIPE, MACHINE CUT, LARGE ENOUGH TO ALLOW 1/4" CLEARANCE ALL AROUND PIPE AND PIPE COVERING. USE MACHINE CUT COPPER SLEEVES FOR UNINSULATED COPPER PIPE.
- SLEEVES IN PARTITIONS TO HAVE LENGTH EQUAL TO THE THICKNESS OF FINISHER PARTITIONS. SLEEVES IN FLOORS OF FINISHED AREAS TO PROJECT 2" ABOVE THE FINISHED FLOOR SLEEVES IN FLOORS OF NON-FINISHED AREAS TO PROJECT 2" ABOVE THE FINISHED FLOOR. FILL SPACE BETWEEN PIPE AND SLEEVES INTO EXPOSED AREAS WITH SEALING COMPOUND. REAM ALL SLEEVES BEFORE
- WHERE PIPES PASS THROUGH FIRE RATED WALLS OF FLOORS. THE SPACE BETWEEN THE PIPE AND SLEEVE SHALL BE FILLED WITH THE PROPER FIRE RATED SFALANT OR PACKING PLUMBING INSULATION
- PROVIDE LISTED INSULATION COVER FOR ALL ITEMS/ELEMENTS AS SPECIFIED HEREIN, AS SHOWN ON DRAWINGS, AND FOR ANY OTHER ITEMS/ELEMENTS
- INSULATE PIPING AND ASSOCIATED ACCESSORIES AND APPURTENANCES INCLUDING IN THE FOLLOWING SYSTEMS 1. DOMESTIC HOT AND COLD WATER

2. BUILDING SOIL WASTE AND VENT SYSTEM.

- PROVIDE A PRE-MANUFACTURED INSULATION COVERS ON ALL EXPOSED LAVATORY WASTE PIPING AND LAVATORY SUPPLY PIPING. PRODUCT TO BE SIMILAR TO HANDIWRAP, PRO-WRAP, AND TRUBRO MANUFACTURES.
- ALL INSULATING MATERIALS, INCLUDING JACKETS, CEMENTS, ADHESIVES, VAPOR BARRIERS, ETC., SHALL BE U.L. LISTED, WITH A FLAME SPREAD RATING NOT TO EXCEED 25, AND A SMOKE DEVELOPMENT RATING NOT TO EXCEED 50. ALL EXTERIOR FINISHES SHALL HAVE A MINIMUM SERVICE TEMPERATURE LIMIT (FSTM 70) OF MINUS 50 TO 220 DEGREES F.
- MOLDED PLASTIC FITTING COVERS SHALL BE U.L. LISTED WITH A FLAME SPREAD RATING NOT TO EXCEED 25, AND A SMOKE DEVELOPMENT RATING NOT TO
- INSULATED THICKNESS' ARE BASED ON INSULATION HAVING THERMAI RESISTANCE IN THE RANGE OF 4.0 HR F. FT2/BTU TO 4.6 HR F. FT2/BTU PER INCH OF THICKNESS ON A FLAT SURFACE AT A MEAN TEMPERATURE OF 75 DEGREES F. MINIMUM INSULATION THICKNESS SHALL BE INCREASED FOR MATERIALS HAVING R VALUES LESS THAN 4.0 OR MAY BE REDUCED FOR MATERIALS HAVING R VALUES GREATER THAN 4.6 TO GIVE EQUIVALENT "R" VALUES.
- PIPE COVERS SHALL BE SIMILAR TO JOHNS MANVILLE "MICRO-LOK" GLASS FIBER INSULATION, RATED FOR 850 DEGREES F. WITH A FACTORY APPLIED AP-T ALL-PURPOSE SELF-SEALING VAPOR BARRIER JACKET, BUTT STRIPS SHALL BE MINIMUM 3" WIDE. AND OF SAME MATERIAL AS JACKET. EQUAL MATERIALS. INCLUDING THICKNESS AND CONDUCTIVITY RATINGS/LISTINGS AS MANUFACTURED BY OWENS CORNING, KNAUF OR MANSON MAY BE FURNISHED AT THE CONTRACTOR'S OPTION. WHERE INSULATION THICKNESS IS INDICATED FOR COVER HEREIN. IT IS NOMINAL THICKNESS REQUIRED THICKNESS.
- . ALL CEMENTS ADHESIVES FINISHES AND ASSOCIATED MATERIALS SHALL BE SIMILAR TO THAT PROVIDED BY FOSTER FOLIAL MATERIALS AS PROVIDED BY CHILDERS OR VIMASCO MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.
- LONGITUDINAL LAP JOINTS AND BUTT STRIPS FOR GLASS FIBER PIPING INSULATION SHALL BE SECURED WITH STAPLES ON THREE (3) INCH CENTERS, AND SEALED WITH AN APPROVED VAPOR BARRIER ADHESIVE WHERE APPLICABLE. STAPLES ARE NOT REQUIRED WHEN INSULATION UTILIZES A "DOUBLE" ADHESIVE SELF-SEALING SYSTEM.

PLUMBING INSULATION EXECUTION

- COVER COLD WATER, AND HOT WATER, PIPING AS FOLLOWS: 2. COVER HOT WATER PIPING WITH 1" THICKNESS GLASS FIBER PIPE INSULATION.
- COVER COLD WATER PIPING WITH 1/2" THICKNESS GLASS FIBER PIPE PROVIDE INSULATION ON THE BOTTOM OF ALL ROOF DRAIN ASSEMBLIES. ALL APPURTENANCES AND ACCESSORIES SUCH AS VALVES, FLANGES, UNIONS, ETC. INSTALLED IN REFERENCED PIPING (WITH THE EXCEPTION OF BACKFLOW
- MOLDED PLASTIC FITTING COVER, OR AN OPEN MESH GLASS CLOTH SHALL BE FIRE RESISTANT MASTIC. BACKFLOW PREVENTION ASSEMBLIES WHICH REQUIRE PERIODIC INSPECTION/TESTING/MAINTENANCE SHALL NO BE PROVIDED WITH INSULATION COVER, UNLESS THESE ASSEMBLIES ARE IN WATER SENSITIVE LOCATIONS. SUCH AS ABOVE LAY-IN CEILINGS. IF LISTED BACKFLOW PREVENTION ASSEMBLIES ARE IN WATER SENSITIVE LOCATIONS FURNISH COVER COMPLYING WITH THIS SPECIFICATION THAT ALLOWS REMOVAL AND REPLACEMENT AS NECESSARY FOR REQUIRED ACCESS.

. USE 12" LONG SECTIONS OF CALCIUM SILICATE RIGID INSULATION, WITH JACKET

SAME AS ADJACENT PIPE COVERING FOR TRANSFER OF SUPPORT TO PIPING AT

CONTRACTOR'S OPTION, AN APPROVED WOOD OR HIGH-DENSITY (20 LB./CU. FT.)

EACH HANGER, WITHOUT STRESS TO THE PIPE COVERING ASSEMBLY. AT THE

PREVENTION ASSEMBLIES LISTED AT THE END OF THIS PARAGRAPH) SHALL BE

ED WITH FULL THICKNESS INSULATION AND COVERED WITH A LISTEL

- FIBERGLASS BLOCK MAY BE SUBSTITUTED FOR THE RIGID INSULATION SECTION. VAPOR BARRIER TO BE MAINTAINED THROUGHOUT. ALL APPLICATIONS SHALL BE MADE ON CLEAN, DRY SURFACES WITH ALL JOINTS
- BUTTED FIRMLY TOGETHER. INSULATION MUST RUN CONTINUOUS THROUGH HANGERS, SLEEVES AND WALL FOR ALL COLD WATER, HOT WATER, HOT WATER RETURN, VACUUM PUMP EXHAUST AND AIR COMPRESSOR INTAKE PIPING.

ON ALL PIPING 1-1/4" DIAMETER AND LARGER WITH INSULATION COVER

PLUMBING SPECIFICATIONS

- SPECIFIED TO RUN CONTINUOUS THROUGH HANGER ASSEMBLIES, PROVIDE A LISTED/APPROVED SHEET METAL PROTECTIVE INSULATION SHIELD AT EACH
- INSULATION SHALL NOT BE APPLIED UNTIL GENERAL CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO MINIMIZE POTENTIAL FOR PHYSICAL OR MOISTURE DAMAGE TO THE COVER ASSEMBLY. ALL DAMAGED COVER SHALL BE
- REPLACED AT THE CONTRACTOR'S EXPENSE INSTALL PROTECTIVE SLEEVE ON ALL INSULATED, EXPOSED PIPES
- PENETRATING THE FLOOR STRUCTURE 12. HANGER RODS MUST BE PERPENDICULAR BEFORE INSULATION IS INSTALLED.
 - PROVIDE PRE-MANUFACTURED PIPE INSULATION ON ALL LAVATORY WASTE AND SUPPLY PIPING. SIMILAR PRODUCTS TO PRO-WRAP, HANDI-WRAP, AND TRU-BRO.
 - DOMESTIC WATER PIPING SYSTEMS PROVIDE A COMPLETE DOMESTIC WATER SUPPLY PIPING SYSTEM AS SHOWN ON
 - THE DRAWINGS, AND AS NECESSARY TO SERVE ALL ITEMS REQUIRING SAME. THE DOMESTIC WATER PIPING SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO
 - a. COLD WATER SUPPLY, HOT WATER SUPPLY, AND HOT WATER RETURN.
 - C. TRAP PRIMER SUPPLY d. DOMESTIC WATER MAKE-UP SUPPLY TO ELEMENTS PROVIDED UNDER SEPARATE CONTRACT, SUCH AS HVAC EQUIPMENT/SYSTEMS, KITCHEN EQUIPMENT, ETC.

b. TEMPERED WATER SUPPLY (FULL TEMPERATURE RANGE).

PRODUCTS

- ABOVE GROUND PIPING UP TO AND INCLUDING 4" SIZE TO BE TYPE L, ASTM B-75. ASTM B88 ASTM B251 ASTM B447 HARD DRAWN COPPER TUBE WITH WROT COPPER FITTINGS AND SOCKET SOLDER JOINTS AND CONNECTIONS. TEE DRILL MECHANICAL SADDLE CONNECTIONS MAY BE UTILIZED. COMPLETED INSTALLATION TO BE RATED FOR 100 PSIG WORKING PRESSURE AT 180 DEGREE
- TRAP PRIMER SUPPLY PIPING BELOW SLAB TO BE TYPE K SOFT COPPER TUBING IN A SINGLE LENGTH WITH NO IN-LINE COUPLINGS OR JOINTS, AND MINIMUM NUMBER OF FITTINGS UNLESS INDICATED OTHERWISE. FITTINGS IF REQUIRED TO BE WROT COPPER WITH SOCKET SOLDER BRAZED CONNECTIONS. COMPLETE INSTALLATION TO BE RATED FOR 175 PSIG WORKING PRESSURE. UNLESS INDICATED OTHERWISE, HORIZONTAL PIPING AND CONDUIT BELOW SLAB TO RUN IN A STRAIGHT LINE DIRECT FROM ENTRY TO EXIST JOINTS.
- VALVES 2-1/2" SIZE AND SMALLER MAY BE TWO-PIECE BRONZE BODY BALL VALVE, SCREWED CONNECTIONS, UNION CONNECTION BODY, TEFLON SEATS, CONVENTIONAL PORT BLOWOUT PROOF STEM. ADJUSTABLE PACKING GLAND. CHROME PLATED BRONZE BALL AND LEVER HANDLE LABELED FOR THE SERVICE CONTROLLED. DESIGN FOR 150 S.W.P. AND 400 WOG. EQUAL TO APOLLO 70-300
- CHECK VALVES; TO BE ALL BRONZE HORIZONTAL SWING WITH BRONZE DISC RATED FOR 125 S.W.P. 3" AND LARGER TO BE FLANGED.

VALVES BY CRANE, HAMMOND, NIBCO OR JENKINS MAY BE FURNISHED AT THE

CONTRACTOR'S OPTION. ALL DOMESTIC WATER PIPING SHALL BE CLEAN, FLUSHED AND TESTED PER STATE AND LOCAL HEALTH DEPARTMENT REQUIREMENTS ALL DOMESTIC WATER PIPING SHALL BE CERTIFIED SAFE FOR HUMAN CONSUMPTION BY A CERTIFIED PROFESSIONAL BY THE STATE OF OHIO

LABORATORY THAT STATES THE SYSTEM MEETS THE DEPARTMENT OF

HEALTH REQUIREMENTS AND IS APPROVED FOR HUMAN CONSUMPTION.

(BACTERIAL CERTIFICATION NUMBER) EMPLOYED BY A TESTING

- SOLDER AND FLUX MATERIAL SHALL BE CERTIFIED "LEAD FREE" AND LISTED
- FOR USE WITH POTABLE WATER SYSTEMS RUN ALL WATER PIPING LEVEL AND CONCEAL WHENEVER POSSIBLE. PIPING TO BE INSTALLED TO ALLOW COMPLETE DRAIN DOWN OF SYSTEM BACK TO MAIN RISER AT BASE OF SYSTEM WHENEVER POSSIBLE. PROVIDE 3/4" DRAINS AT BASE OF RISER, AND ANY OTHER TRAPPED OR LOW POINTS WHEN SUCH ARE UNAVOIDABLE DUE TO PROJECT CONDITIONS. 3/4" DRAINS TO CONSIST OF BALL VALVE WITH OUTLET CONNECTION VACUUM BREAKER.
- BALANCE RECIRCULATION BRANCH LINE FLOW AS REQUIRED FOR PROPER OPERATION OF SYSTEMS. PROVIDE COMBINATION BALANCE/SHUTOFF VALVE, CHECK VALVE, THERMOMETER ND PETE'S PLUG FOR EACH BRANCH

HORIZONTAL SUPPLY PIPING BELOW SLABS ON GRADE TO BE INSTALLED

- ENTIRELY BELOW THE SLAB STRUCTURE, INCLUDING CONDUIT SLEEVE WHEN PROVIDED. UNDER SLAB PIPING AND/OR CONDUIT SHALL NOT BE EMBEDDED OR SUPPORT SLAB STRUCTURES. COORDINATE INSTALLATION WITH STRUCTURE, SITE CONDITIONS AND WORK OF
- OTHER TRADES AT AND ADJACENT TO DOMESTIC WATER SERVICE PIPING MAINTAIN NECESSARY CLEARANCE FORM STRUCTURAL SUPPORT ELEMENTS AS REQUIRED FOR INSTALLATION OF DOMESTIC WATER SERVICE PIPING OUTSIDE OF
- SUPPORT/BEARING ZONES. WITH ALL OUTLETS CLOSED, FILL SYSTEM TO WORKING PRESSURE AND CLOSE VALVE AT SUPPLY MAIN
- A CLEANING SOLUTION CONTAINING NOT LESS THAN 150 PARTS PER MILLION OF CHLORINE SHALL BE INTRODUCED INTO THE SYSTEM. EACH OUTLET, HOT AND COLD, SHALL BE TESTED DURING FILL TO PROVE THE PRESENCE OF CHI ORINE AT THAT OUTLET AND VALVES AND FAUCETS SHALL BE
- OPENED AND CLOSED SEVERAL TIMES DURING THE DISINFECTING TIME PERIOD. 14. WATER PIPING SYSTEMS SHALL REMAIN FILLED FOR A PERIOD OF 24 HOURS AND EACH OUTLET SHALL BE AGAIN TESTED AND SHALL PRODUCE NOT LESS THAN 100 PARTS PER MILLION OF CHLORINE AT THE END OF THE RETENTION
- 15. ALL OUTLETS SHALL BE OPENED WIDE AND THE MAIN SUPPLY VALVES OPENED. FLUSHING SYSTEM WITH WATER UNTIL THE CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION OR UNTIL APPROVED BY THE HEALTH
- DEPARTMENT FLUSH DRAIN VALVES 16. AFTER FINAL FLUSHING ALL AERATORS ON PLUMBING BRASS SHALL BE REMOVED, CLEANED AND REINSTALLED.
- STERILIZATION TEST MAY BE PERFORMED AT THE SAME TIME THE PRESSURE TEST IS PLACED ON THE SYSTEM. PIPE ANCHORS, HANGERS AND SUPPORTS ALL PIPING SHALL BE SEPARATELY HUNG AND SUPPORTED FROM APPROVED
- STRUCTURAL MEMBERS OR CONCRETE OVERHEAD STRUCTURE ONLY NO PIPE SHALL BE HUNG FROM ROOF DECK, PIPE DUCTS, OR OTHER COMPONENTS OR EQUIPMENT OF OTHER TRADES. PROVIDE LISTED/APPROVED ADJUSTABLE HANGERS, INSERTS, BRACKETS, CLAMPS, SUPPLEMENTAL STEEL AND OTHER DEVICES REQUIRED FOR PROPER SUPPORT OF ALL PIPE LINES. HANGERS SHALL BE DESIGNED TO ALLOW FOR EXPANSION AND CONTRACTION
- AND TO ALLOW INSULATION (WHERE APPLICABLE) TO RUN CONTINUOUSLY THROUGH HANGERS WIRE OR STRAP HANGERS ARE NOT PERMITTED. ADJUST HANGERS SO AS TO DISTRIBUTE WEIGHT LOAD EQUALLY ON ATTACHMENTS. USE OF TRAPEZE HANGERS DO NOT PERMIT THE ELIMINATION OF THE PIPING

INSULATION TO NOT BE CONTINUOUS THRU THE HANGER.

SIMILAR TO ZURN SHOCKTROL SERIES Z-1700, SIZED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER FOR SPECIFIC CONDITIONS AT EACH

EQUAL SHOCK ABSORBERS AS MANUFACTURED BY J.R. SMITH, JOSAM, SIOUX

- CHIEF OR PRECISION PLUMBING PRODUCTS MAY BE PROVIDED AT THE CONTRACTOR'S OPTION. TRAP PRIMER/SEAL ASSEMBLIES SIMILAR TO SIGLIX CHIEF PRODUCTS PRIME PERFECT SERIES 695 WITH BRASS BODY AND WORKING PRESSURE OF 250 PSIG. PROVIDE WITH DISTRIBUTION UNIT AS REQUIRED FOR MULTIPLE SUPPLIES TO FLOOR DRAIN. PROVIDE COPPER
- FLUSHING AND STERILIZATION 1. FLUSH OUT ALL DOMESTIC WATER PIPING SYSTEMS TO REMOVE ALL DIRT AND GREASE FROM PIPING AND FOLIPMENT BEFORE SYSTEMS ARE PLACED INTO OPERATION. CLEAN STRAINERS AFTER EACH FLUSHING UNTIL THE STRAINER REMAINS CLEAN

AFTER DOMESTIC WATER LINES ARE ALL INSTALLED. STERILIZE LINES AS

IMMEDIATE-ON-THE-JOB SUPERVISION OF A WATER TESTING LABORATORY

INSTRUCTIONS. ALL FEES FOR TESTING AND TEST EQUIPMENT SHALL BE PAID BY

REGULARI Y ENGAGED IN THE SERVICE AND SHALL BE DONE PER THEIR

PRESCRIBED BY AWWA-C-651, STERILIZATION SHALL BE DONE UNDER

THIS CONTRACTOR

PIPING FROM TRAP PRIMER UNIT TO FLOOR DRAIN TRAP PRIMER INLET.

- FURNISH A CERTIFICATE OF STERILIZATION AND APPROVAL FOR HUMAN CONSUMPTION SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO REGULARLY IN THE EMPLOY OF THE TESTING LABORATORY. CERTIFICATION SHALL BE FURNISHED TO THE ARCHITECT/ENGINEER PRIOR TO
- 4. STERILIZATION: CHLORINATING MATERIAL EITHER LIQUID CHLORINE MEETING AWWA STANDARD B301, SODIUM OR CALCIUM HYPOCHLORITE MEETING AWWA STANDARD B300.

DRAINS, CLEANOUTS, AND DRAINAGE SPECIALTIES

- FURNISH AND INSTALL DRAINS, CLEANOUTS AND DRAINAGE SPECIALTIES AS INDICTED ON THE DRAWINGS, AND ELSEWHERE AS REQUIRED FOR COMPLETE DRAINAGE, ACCESS AND SPECIAL FUNCTION/OPERATION AT ALL ITEMS/ELEMENTS AND AREAS REQUIRING SAME AND FOR PROPER INTEGRATION WITH THE BUILDING DRAINAGE SYSTEM.
- UNLESS INDICATED OTHERWISE, ALL ITEMS/ELEMENTS AND THEIR COMPONENT PARTS DESCRIBED HEREIN TO BE OF METALLIC CONSTRUCTION WHEN SUCH IS AVAILABLE FOR THE BASE SPECIFIED ITEM/ELEMENT, USE OF PLASTIC. COMPOSITE, OR OTHER NON-METALLIC COMPONENTS AND/OR MATERIALS BY LISTED ALTERNATE ITEMS/ELEMENTS IS PROHIBITED

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR.

- HUB DRAINS TO CONSIST OF STRAIGHT SECTION OF HUB OR SOCKET TYPE CONNECTION WASTE PIPE INSTALLED IN THE VERTICAL POSITION. WITH THE HUR OR SOCKET PORTION EXPOSED ABOVE THE FLOOR, THE HUB INLET SHALL BE A MINIMI IM OF 3" ABOVE THE FLOOR SURFACE. HUB OR SOCKET WASTE PIPE MATERIAL TO MATCH THAT OF THE SYSTEM IT IS CONNECTED TO.
- 2. FURNISH AND INSTALL A P-TRAP FOR FACH SANITARY DRAIN INLET TERMINAL (FLOOR DRAIN, HUB DRAIN, FLOOR SINK, ETC.,) OF THE SAME MATERIAL AND CONNECTION TYPE AS THE PIPING SYSTEM CONNECTED TO, UNLESS INDICATED
- THIS CONTRACTOR MAY, AT HIS OPTION, USE ABS PLASTIC PLUGS IN LIEU OF BRONZE PLUGS WHERE SPECIFIED, EXCEPT ABS PLUGS SHALL NOT BE PERMITTED IN RETURN AIR PLENUMS OR AT EXPOSED LOCATIONS. LOCATION OF THE RETURN AIR PLENUM TO BE CONFIRMED WITH THE HVAC CONTRACTOR.

4. ALL CLEANOUTS INSTALLED IN CARPETED AREAS TO BE PROVIDED WITH

CLEANOLITS IN TILE MARRIE TERRAZZO PARQUET OR OTHER "SPECIAL" ELOOR TREATMENT AREAS TO BE PROVIDED WITH RECESSED TOPS TO ALLOW THE INTEGRATION WITH THE FLOOR TREATMENT. "SPECIAL" FLOOR TREATMENT AREAS. TO BE AS INDICATED BY ARCHITECTURAL DOCUMENTATION, AND CONFIRMED WITH

APPROVED VANDAL PROOF CARPET MARKERS, CARPETED AREAS TO BE AS

INDICATED BY ARCHITECTURAL DOCUMENTATION, AND CONFIRMED WITH THE

- 6. EQUAL DRAINS, DRAINAGE SPECIALTIES AND CLEANOUTS AS MANUFACTURED BY ZURN, JOSAM, WADE, WATTS OR J.R. SMITH MAY BE FURNISHED AT THE CONTRACTOR'S OPTION. **EXECUTION**
- WHEN TRAP PRIMER WATER SUPPLY IS INDICATED ON PLANS FOR DRAIN ASSEMBLIES, THE CONTRACTOR HAS THE OPTION TO CONNECT TO A FITTING ON EITHER THE DRAIN ASSEMBLY OR THE P-TRAP INLET ABOVE THE WATER SEAL. IN ACCORDANCE WITH INSPECTION/APPROVAL ALITHORITIES, PROVIDE A DIFLECTRIC UNION AT TRAP PRIMER SUPPLY CONNECTION POINTS. WHEN DRAIN BODY PRIMER CONNECTIONS OCCUR WITHIN THE SLAB/FLOOR STRUCTURE PROVIDE AN OFESET IMMEDIATELY ADJACENT TO THE DRAIN LOCATION TO ALLOW INSTALLATION OF SUPPLY PIPING ENTIRELY BELOW THE SLAB/FLOOR STRUCTURE, INCLUDING THE CONDUIT SLEEVE REQUIRED FOR TRAP PRIMER SUPPLY PIPING UNDER SLAB ON
- 2. PROVIDE A COMPATIBLE FASTENING ASSEMBLY WITH INTERNAL SECONDARY DRAINAGE FLANGE AND WEEPHOLES FOR ALL ITEMS SPECIFIED HEREIN BEING INSTALLED IN STRUCTURES HAVING A WATER PROOF MEMBRANE. FLASHING VAPOR BARRIER, OR SIMILAR ELEMENT PROVIDED UNDER SEPARATE CONTRACT. INSTALLATION CONDITIONS TO BE VERIFIED FROM ARCHITECTURAL DOCUMENTATION AND COORDINATED WITH THE APPROPRIATE CONTRACTOR.
- COUNTER FLASHING (WHEN REQUIRED) FOR ITEMS SPECIFIED HEREIN IS TO BE COMPATIBLE WITH WATERPROOF MEMBRANE VAPOR BARRIER FLASHING OR SIMILAR FLEMENTS PROVIDED UNDER SEPARATE CONTRACT AT THE INTERFACE POINT, COUNTER FLASHING TO BE PROVIDED AND SET IN PLACE BY THE PLUMBING CONTRACTOR. BUT WILL BE MADE WATERTIGHT BY THE CONTRACTOR INSTALLING THE MEMBRANE, VAPOR BARRIER, FLASHING OR SIMILAR ELEMENTS PROVIDED UNDER SEPARATE CONTRACT. INSTALLATION CONDITIONS TO BE VERIFIED FROM ARCHITECTURAL DOCUMENTATION AND COORDINATED WITH THE APPROPRIATE
- ELEVATIONS AND DIMENSIONAL LOCATIONS, ITEMS NOT PROPERLY INSTALLED SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE OWNERS' ON-SITE REPRESENTATIVE

PROVIDED UNDER SEPARATE CONTRACT.

UNLESS DIRECTED OTHERWISE.

ALL ITEMS AND ACCESSORIES SPECIFIED HEREIN ARE TO BE INSTALLED IN

ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AND IN ACCORDANCE THE THE REQUIREMENTS OF THE INSPECTION/APPROVAL 6. COORDINATE LOCATION OF ALL DRAINS AS REQUIRED FOR PROPER OPERATION WHEN ASSOCIATED WITH SLOPED FLOORS, DECKS OR OTHER STRUCTURES

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL DRAINS CLEANOUTS.

AND OTHER ITEMS SO NOTED INSTALLED FLUSH AND LEVEL WITH FINISH WALL

FLOOR OR OTHER STRUCTURE AS APPLIES. COORDINATE INSTALLATION WITH

CONTRACTOR'S PROVIDING ASSOCIATED STRUCTURE INCLUDING REQUIRED

VERIFY EXACT LOCATIONS OF DRAINS FURNISHED FOR ITEMS UNDER SEPARATE CONTRACT WITH THE EQUIPMENT AS ACTUALLY PROVIDED AND INSTALLED BY THI APPROPRIATE CONTRACTOR. COORDINATE INSTALLATION IN ADVANCE OF WORK. 8 WITH THE EXCEPTION OF CLEANOUTS ALL ITEMS SPECIFIED ARE TO HAVE

CONNECTION SIZE SAME AS CONNECTED PIPING SIZE SHOWN ON THE DRAWINGS,

SAME SIZE AS SHOWN ON PLANS FOR WASTE/DRAIN PIPING BEING SERVED, UP TO AND INCLUDING 3" SIZE. CLEANOUTS ARE TO HAVE OUTLET SIZE, CONNECTING PIPE AND FITTINGS OF 4" SIZE WHEN SHOWN ON THE DRAWINGS SERVING WASTE/DRAIN PIPING 4" SIZE AND LARGER. 10. WHERE INDIVIDUAL SINK SOLIDS INTERCEPTORS ARE INDICATED ON THE DRAWINGS, THEY ARE TO BE PROVIDED IN LIEU OF P-TRAP FOR SINK IF SO

SPECIFIED. INSTALL INTERCEPTOR TO ALLOW PROPER ACCESS FOR CLEANING

TO BEAR ON SINK, PIPING OR ASSOCIATED CASEWORK SUPERSTRUCTURE.

AND SERVICE, INTERCEPTOR TO BE SUPPORTED FROM FLOOR BELOW SO AS NOT

9. CLEANOUTS ARE TO HAVE OUTLET SIZE, CONNECTION PIPE AND FITTINGS OF

- PROVIDE ADDITIONAL APPROVED BLOCKING/BASE/STAND AS REQUIRED FOR SUPPORT FROM BASE OF CASEWORK OR FLOOR BELOW AS APPLICABLE. COORDINATE LOCATIONS OF ITEMS SPECIFIED HEREIN, AND INSTALLED IN OR AT STRUCTURE PROVIDED UNDER SEPARATE CONTRACT. RELATIVE TO FOUNDATIONS, BEAMS AND OTHER STRUCTURE ELEMENTS TO AVOID CONFLICTS. MAKE MINOR ADJUSTMENTS AS REQUIRED FOR PROPER INSTALLATION,
- DOCUMENTATION IN ADVANCE OF WORK AND COORDINATE INSTALLATION WITH THE APPROPRIATE CONTRACTOR. ALL ITEMS/ELEMENTS SPECIFIED THAT ARE TO BE INTEGRATED INTO ABOVE GRADE STRUCTURES SHALL BE FURNISHED WITH AN ANCHOR FLANGE. WHEN SUCH IS AVAILABLE. SECONDARY DRAINAGE FLANGE AT DRAIN ASSEMBLIES MAY

CLEARANCE AND ACCESSIBILITY. REFER TO ARCHITECTURAL/STRUCTURAL

1 FURNISH AND INSTALL ALL PLUMBING FIXTURES AND ASSOCIATED ACCESSORIES AS SPECIFIED HEREIN AT LOCATIONS INDICATED ON THE DRAWINGS FIXTURES TO BE PROVIDED FREE OF DEFECTS AND SET IN A NEAT. FINISHED AND UNIFORM

WHERE FIXTURES ARE INDICATED TO BE HANDICAP ACCESSIBLE. INSTALL AS

ALSO SERVE AS AN ANCHORING FLANGE, SUBJECT TO APPROVAL.

- DIRECTED HEREIN AND IN COMPLIANCE WITH THE CODES AND GUIDELINES PLUMBING FIXTURES, TRIM, FITTINGS, ACCESSORIES, APPURTENANCES, ETC. NOT
- STAINLESS STEEL SINKS AND ACCESSORIES AS MANUFACTURED BY ELKAY, JUST OR ADVANCE TABCO MAY BE FURNISHED AT THE CONTRACTOR'S OPTION. EQUAL MANUAL OPERATION FAUCETS AND ACCESSORIES AS MANUFACTURED BY

AMERICAN STANDARD KOHLER CRANE FLIER CHICAGO FAUCET SPEAKMAN

INCLUDED HEREIN ARE AS SPECIFIED ON PLAN.

- ZURN OR T&S BRASS MAY BE FURNISHED AT THE CONTRACTOR'S OPTION. UNLESS INDICATED OTHERWISE, ALL EXPOSED METALLIC PARTS, PIPING, TRIM FITTINGS, ACCESSORIES, APPURTENANCES, ETC, ASSOCIATED WITH PLUMBING FIXTURES SHALL BE POLISHED CHROME FINISH WHEN AVAILABLE PROVIDE POLISHED CHROME PLATED BRASS ESCUTCHEONS ON PIPING AT ALL EXPOSED
- AT ALL FIXTURE CONNECTIONS. AT ALL HANDICAP ACCESS LAVATORIES AND/OR SINKS WITH EXPOSED SUPPLY AND DRAIN PIPING BELOW PROVIDE PRE-FABRICATED CLOSED CELL VINYL INSULATION/COVER ASSEMBLIES WITH SEAMLESS PVC JACKET FOR ALL SUPPLY (FULL RANGE OF HOT, COLD AND TEMPERED) AND DRAIN PIPING, ASSEMBLY TO BE SIMILAR TO MCGUIRE PRO-WRAP SERIES. OFFSET DRAINS (IF USED) TO BE PROVIDED WITH COVER ASSEMBLIES SPECIFICALLY DESIGNED FOR SAME. ASSEMBLIES TO BE LISTED BY MANUFACTURER AS HANDICAP ACCESS COMPLIANT

STRUCTURE PENETRATIONS (WALLS, FLOORS, CEILINGS, CASEWORK, ETC,) AND

- PROVIDE INDIVIDUAL ACCESSIBLE STOP VALVES ON ALL FIXTURES AND EQUIPMENT SUPPLY PIPING. INSTALL ALL FIXTURES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

ALL EXPOSED PORTIONS OF SUPPLY AND DRAIN PIPING, INCLUDING FITTINGS,

ACCESSORIES AND APPURTENANCES, BELOW HANDICAP ACCESS LAVATORIES

- 3. MOUNTING HEIGHTS OF FIXTURES AS ASSOCIATED EQUIPMENT AS INDICATED ON UNLESS NOTED OTHERWISE ALL WALL HUNG LAVATORIES SHALL BE SUPPORTED WITH A FLOOR MOUNTED CONCEALED ARM CARRIER. BOLT UNIT TO FLOOR.
- HANDICAP ACCESSIBILITY REQUIREMENTS. 7. AT ALL COUNTERTOP OR OTHER CASEWORK CONDITIONS, VERIFY EXACT LOCATION AND INSTALLATION OF ALL ITEMS WITH ARCHITECTURAL DOCLIMENTATION REFORE ANY WORK IS PERFORMED. COORDINATE INSTALL ATION WITH THE GENERAL CONTRACTOR, WHERE PLUMBING FIXTURES ARE INSTALLED IN CASEWORK AND INDICATED TO BE "HANDICAP ACCESSIBLE" COORDINATE INSTALLATION WITH GENERAL CONTRACTOR TO PROVIDE CLEARANCES AND

- 8. ALL HANDICAP ACCESS FIXTURE CONTROLS INCLUDING FAUCETS AND FLUSH VALVES. TO BE PROVIDED WITH OPERATORS REQUIRING 5 POUND PRESSURE OR LESS FOR OPERATION.
- WHERE ACCESSORIES SUCH AS GRAB BARS, SEATS, ETC., ARE PROVIDED BY THE GENERAL CONTRACTOR AT PLUMBING FIXTURE OR FOLIPMENT LOCATIONS (LE TOILET STALLS). COORDINATE INSTALLATION OF PLUMBING FOUIPMENT TO AVOID CONFLICTS. AND ALLOW PROPER OPERATION OF AND ACCESSIBILITY TO ALL ITEMS. VERIFY LOCATION OF ALL ITEMS PROVIDED BY THE GENERAL CONTRACTOR FROM ARCHITECTURAL DOCUMENTATION IN ADVANCE OF PLUMBING WORK BEING
- JOINTS FORMED WHERE FIXTURES COME INTO CONTACT WITH WALLS OF FLOORS SHALL BE SEALED WATERTIGHT WITH AND APPROVED SEALING COMPOUND, COORDINATE INSTALLATION AND COLOR WITH THE GENERAL CONTRACTOR.

BUILDING SOIL, WASTE AND VENT SYSTEM APPLICATIONS FOR SANITARY AND VENT SYSTEMS INCLUDE, BUT ARE NOT

- LIMITED TO THE FOLLOWING: a. SANITARY AND VENT PIPING FROM DESIGNATED POINTS WITH ALL
- b. DRAINAGE AND VENT PIPING FOR ALL OTHER MISCELLANEOUS SYSTEMS OR EQUIPMENT AS INDICATED ON DOCUMENTS AND AS REQUIRED.
- DIRECT AND INDIRECT DRAINAGE AND VENT PIPING FOR ALL OTHER MISCELLANEOUS SYSTEMS OR EQUIPMENT AS INDICATED ON DOCUMENTS AND AS REQUIRED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SANITARY PIPING FINAL CONNECTIONS AND ALL INDIRECT PIPING FROM EQUIPMENT TO DRAIN O COMPLETE THE SANITARY WASTE AND VENT PIPING SYSTEM AND TO
- FURNISH A COMPLETE SYSTEM OF INTERIOR SOIL WASTE DRAINAGE (INCLUDES SANITARY AND VENT PIPING) FROM BUILDING FIXTURES. EQUIPMENT, AND ANY OTHER ELEMENTS REQUIRING THE SAME.

EQUIPMENT AND FIXTURES PROPERLY.

PIPING TO BE AS FOLLOWS: a. BELOW SLAB ONLY; STANDARD WEIGHT CAST IRON DWV PIPE AND DWV FITTINGS WITH NEOPRENE GASKET HUB AND SPIGOT. b. ABOVE FLOOR ONLY: STANDARD WEIGHT CAST IRON DWV PIPE AND DWV

OMPLETE THE INDIRECT DRAINAGE PIPING SYSTEM TO OPERATE ALL

CONNECTIONS d. ABOVE FLOOR ONLY: ALL EXPOSED HAND SINK DRAINS AND DIRECT WASTE INES SHALL BE CHROME PLATED BRASS PIPING.

e. <u>ABOVE FLOOR ONLY</u>: ALL EXPOSED INDIRECT DRAINS SHALL BE COPPER

TTINGS WITH NO-HUB MECHANICAL COUPLING JOINTS AND

FURNISH AND INSTALL A CLEANOUT AT THE BASE OF EACH STACK AND

ELSEWHERE AS REQUIRED BY THE PLUMBING CODE

- ALL CAST IRON SOIL PIPE SHALL BE BITUMASTIC COATED INSIDE AND OUTSIDE. ALL CAST IRON PIPING (INCLUDING JOINTS AND CONNECTIONS) SHALL BE INSTALLED IN ACCORDANCE WITH STANDARDS AS SET FORTH BY THE CAST IRON SOIL PIPE AT THE CONTRACTOR'S OPTION, HUBLESS CAST IRON SOIL PIPE MAY BE JOINED BY
- AND TESTED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS. PLASTIC PIPING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS WITH PARTICULAR ATTENTION TO

REQUIREMENTS FOR JOINING METHODS SUPPORT AND ALLOWANCES FOR

USING HEAVY DUTY "CLAMP ALL" COUPLINGS IN LIEU OF "NO-HUB" COUPLINGS

COUPLINGS ARE TO BE MADE OF 24 GAUGE TYPE 304 STAINLESS STEEL WITH

HI-TORQUE CLAMPS AND NEOPRENE GASKETS. COUPLINGS SHALL BE INSTALLED

EXPANSION AND CONTRACTION. PLASTIC PIPING SHALL NOT BE INSTALLED IN ANY

- RETURN AIR PLENUM OR CHASE THAT IS USED FOR RETURN AIR. COORDINATE INSTALLATION WITH STRUCTURE, EXISTING CONDITIONS AND WORK OF OTHER TRADES AT AND ADJACENT TO SOIL. WASTE AND VENT SERVICE PIPING
- **HOUSE LINES GAS** PART 1 GENERAL

INSTALLATION

1 01 RFFFRENCE A. PLUMBING GENERAL

B. GAS SERVICE AND METER

ANY OTHER POINTS REQUIRING SAME.

- A. CONNECT TO LOW PRESSURE (14" W.C. OR LESS) GAS SERVICE PIPING AT BUILDING ENTRY POINT, PROVIDE A LISTED/APPROVED LUBRICATED PLUG VALVE, AND EXTEND HOUSE LINE GAS PIPING SYSTEM TO ALL ITEMS/ELEMENTS INDICATED ON PLANS, AND
- B. CONNECT TO HIGH PRESSURE (1 PSIG MINIMUM TO 5 PSIG MAXIMUM) GAS SERVICE PIPING AT BUILDING ENTRY POINT, PROVIDE A LISTED/APPROVED LUBRICATED PLUG VALVE, AND
- EXTEND HOUSE LINE GAS PIPING SYSTEM TO ALL ITEMS/ELEMENTS INDICATED ON PLANS, AND ANY OTHER POINTS REQUIRING SAME. C. FINAL CONNECTION TO ALL ITEMS IS BY THE PLUMBING CONTRACTOR, WHETHER ITEMS ARE FURNISHED AND/OR INSTALLED IN THE PLUMBING CONTRACT OR NOT.
- STANDARDS, AND ALL REVIEW, INSPECTION AND APPROVAL AUTHORITIES. PART 2 PRODUCTS
- 2.01 PIPE AND FITTINGS A. MAXIMUM 14" W.C. (1/2 PSIG) WORKING PRESSURE GAS PIPE IN EXPOSED LOCATIONS STANDARD WEIGHT (SCHEDULE 40) BLACK STEEL PIPE. FITTINGS SHALL BE THREADED STANDARD WEIGHT BLACK MALLEABLE IRON; TO MAXIMUM 1 1/4" PIPE SIZE. GAS SYSTEM PIPING IN ACCORDANCE WITH ANY OF THE FOLLOWING CRITERIA SHALL BE STANDARD

WEIGHT (SCHEDULE 40) BLACK STEEL PIPE AND FITTINGS WITH BUTT WELDED JOINTS AND

D. INSTALLATION OF ALL ELEMENTS SPECIFIED HEREIN AND SHOWN ON PLANS SHALL BE IN

ACCORDANCE WITH THE REQUIREMENTS OF THE GAS PROVIDER, THE REFERENCED

1. PIPING IN CONCEALED LOCATIONS (INCLUDES ABOVE ACCESSIBLE CEILINGS, AND WITHIN ACCESSIBLE STRUCTURES/CHASES WHERE NOT NORMALLY VISIBLE). 2 ALL PIPING 1 1/2" SIZE AND LARGER 3. ALL PIPING WITH GREATER THAN 1/2 PSIG WORKING PRESSURE. 4. ALL PIPING IN AIR PLENUMS, AS CONFIRMED FROM PROJECT HVAC DOCUMENTATION.

HAVE VALVES, UNIONS, TUBING FITTINGS OR RUNNING THREADS

INDICATED TO BE INSTALLED IN WELDED GAS PIPING SHALL BE FURNISHED WITH LISTED/APPROVED WELDING ADAPTERS OR LISTED/APPROVED CLASS 125 FLANGES AND C. ALL PIPING IN CONCEALED LOCATIONS (INCLUDES ABOVE ACCESSIBLE CEILINGS, AND

WITHIN ACCESSIBLE STRUCTURES/CHASES WHERE NOT NORMALLY VISIBLE) SHALL NOT

B. VALVES, FITTINGS AND ANY OTHER ELEMENTS NOT AVAILABLE WITH WELDED CONNECTIONS

2.02 SECONDARY GAS PRESSURE REGULATOR A. SIMILAR TO EQUIMETER SERIES 243 OR 121 (ACCORDING TO FLOW CAPACITY REQUIREMENTS) DIAPHRAGM TYPE ADJUSTABLE PRESSURE REGULATOR. WITH CAST IRON VALVE BODY, ALUMINUM DIAPHRAGM CASE AND VENT ASSEMBLY WITH OUTLET

CONNECTION. FURNISH WITH BLOCKED THROAT AND REMOTE SENSING LINE WHEN

INDICATED ON PLAN IN MONITORING CONFIGURATION. SEE PLANS FOR SIZE AND

2.04 USE LISTED/APPROVED ROOFTOP SUPPORT ASSEMBLIES FOR PIPING INSTALLATION,

CAPACITY REQUIREMENTS. B. EQUIVALENT REGULATORS AS MANUFACTURED BY FISHER, AMERICAN, SPRAGUE OR MAXITROL MAY BE PROVIDED AT THE CONTRACTOR'S OPTION. 2.03 USE LISTED/APPROVED ROOFTOP SUPPORT ASSEMBLIES FOR PIPING INSTALLATION, SIMILAR TO MIRRO MODEL NO. 24R PILLOWBLOCK TYPE COMPOSITE CONTRUCTION PIPESTANDS.

SIMILAR TO MIRRO MODEL NO. 24R PILLOWBLOCK TYPE COMPOSITE CONTRUCTION PIPESTANDS

- FOR SIZES UP TO AND INCLUDING 4". AND MODEL NO. 48-R ROLLER TYPE STAINLESS STEEL CONSTRUCTION PIPESTANDS FOR SIZES UP TO AND INCLUDING 8". PART 3 EXECUTION
- 3.01 INSTALL A LISTED/APPROVED TAPERED LUBRICATED PLUG COCK ON INCOMING PIPING IMMEDIATELY INSIDE BUILDING WALL. 3.01 ALL GAS PIPING SHALL BE INSTALLED LEVEL. INSPECT, TEST AND PURGE ALL GAS LINES

TO OUTSIDE AS REQUIRED BY THE GAS PROVIDER, REFERENCED STANDARDS AND THE

3.05 INSTALL LISTED/APPROVED PIPE SLEEVES ON GAS PIPING AT ALL STRUCTURAL PENETRATIONS. 3.06 ALL BRANCH CONNECTIONS SHALL BE MADE ON THE TOP OR SIDE OF HORIZONTAL

3.07 BEFORE THE GAS SERVICE IS TURNED ON THE HOUSE LINES SHALL BE SUBJECTED TO A

24-HOUR CHARTED PRESSURE TEST, UNLESS ANOTHER TEST IS REQUESTED BY THE GAS.

PROVIDER. PRESSURES AS INDICATED BELOW. THE TEST SHALL BE PERFORMED BY THIS

CONTRACTOR AND WITNESSED BY THE GAS PROVIDER. THIS CONTRACTOR TO INITIALLY PRESSURIZE SYSTEM. TEST REQUIREMENTS (INCLUDING REQUIRED EQUIPMENT AND METHODS) TO BE CONFIRMED WITH THE GAS PROVIDER IN ADVANCE. THE GAS PROVIDER TO RULE ON ACCEPTABILITY OF THE PIPING SYSTEM AFTER THE TEST.

A. SYSTEMS OVER 2 PSIG SHALL BE TESTED WITH 50 PSIG AIR.

END OF SECTION

REVIEW/INSPECTION/APPROVAL AUTHORITIES...

B. SYSTEMS 2 PSIG OR LESS SHALL BE TESTED WITH 5 PSI AIR. 3.08 PRESSURE REGULATION VALVES (INCLUDING THOSE PROVIDED LOOSE OR INSTALLED WITH

PACKAGED EQUIPMENT ASSEMBLIES) INSTALLED WITHIN THE BUILDING STRUCTURE ARE TO BE

COORDINATE ATTACHMENT REQUIREMENTS WITH GENERAL AND/OR ROOFING CONTRACTOR.

3.11 ALL METALLIC PIPING INSTALLED AT BUILDING EXTERIOR TO BE PROVIDED WITH FIELD APPLIED

INDIVIDUALLY VENTED TO ATMOSPHERE IN COMPLIANCE WITH THE GAS PROVIDER, REFERENCED

- STANDARDS AND THE REVIEW/INSPECTION/APPROVAL AUTHORITIES 3.10 INSTALL ROOFTOP PIPE STANDS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PIPE STANDS TO SET ON ROOF WITHOUT BEING SECURED TO STRUCTURE, UNLESS ATTACHMENT IS REQUIRED FOR PROPER PIPING INSTALLATION.
- WEATHER-RESISTANT EPOXY PAINT. AND SINKS (WITH THE EXCEPTION OF WALL ESCUTCHEONS) TO BE PROVIDED WITH COVER BY COMPLETED INSTALLATION SPECIFIED HEREIN, IN ACCORDANCE WITH .13 WHEN GAS PRESSURE REGULATORS ARE INSTALLED WITHIN 10 FEET HORIZONTAL DISTANCE FROM ANY BUILDING AIR INTAKE AND/OR OPENING (INCLUDING DOORS, OPERABLE WINDOWS ETC.), FULL SIZE RELIEF PIPING SHALL BE EXTENDED FROM THE REGULATOR VENT OUTLET CONNECTION TO A POINT AT LEAST 10 LINEAR FEET IN DISTANCE HORIZONTAL FROM ALL INTAKES AND/OR OPENINGS, OR TO A POINT AT LEAST 10 FEET ABOVE THE TOP OF THE HIGHEST INTAKE AND/OR OPENING.

PAINTED FINISH; (1) UNDERCOAT AND (1) EXTERIOR COAT WITH LISTED/APPROVED

CONVOCATION

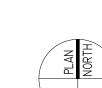
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1937 EDISON DRIVE PIQUA, OHIO 45653

EDISON STATE COMMUNITY COLLEGE



WWW.FHAI.COM 128 WEST MARKET STREET, CELINA, OHIO 45822



CONSTRUCTION DOCUMENTS

DRAWN BY: Author PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

PRATER ENGINEERING ASSOCIATES 6130 Wilcox Road Dublin, Ohio 43016 'hone: (614) 766-4896 Fax: (614) 766-2354

CHECKED BY DRAWN BY KJO CMA

JOB NUM.

DESCRIPTION

PLUMBING SPECIFICATIONS

MOUNTING HEIGHTS AS REQUIRED.

1937 EDISON DRIVE PIQUA, OHIO 45653

EDISON STATE
COMMUNITY COLLEGE



ARCHITECT



419-586-7771 WWW.FHAI.COM128 WEST MARKET STREET, CELINA, OHIO 45822

PLAN

CONSTRUCTION DOCUMENTS

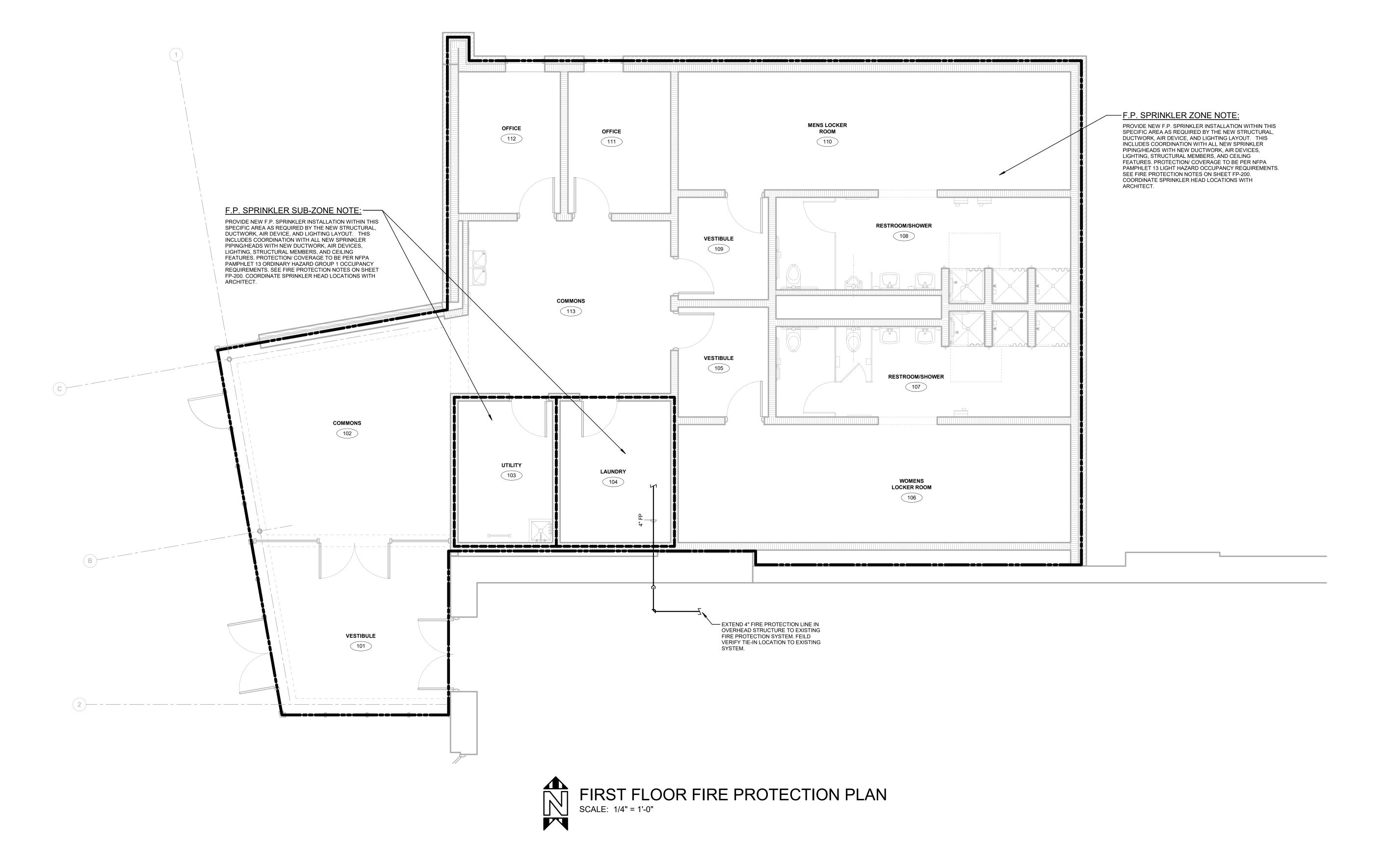


DRAWN BY: JAH
PROJECT NUMBER: 223193.00
PROJECT ISSUE DATE: 2-22-2024

REV. NO.△	DESCRIPTION	DATE

FIRST FLOOR FIRE PROTECTION PLAN

FP100



THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN
APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAIL HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMIT, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW AND APPROVAL.

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY DRAWN BY CHECKED BY JOB NUM.
23355

1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN). 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:

A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).

B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE. C. MAXIMUM 6" NOMINAL DIAMTER COPPER PIPE.
D. MAXIMUM 6" NOMINAL DIAMETER EMT. E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.

3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO 4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

MAXIMUM DIAMTER OF OPENING = 13-1/4".
 ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4"

1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-2. MAXIMUM 10" NOMINAL DIAMETER STEEL SLEEVE (MIN. 28 GA. SHEET METAL OR NO.8 3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING: A. MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER). B. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 7 OR HEAVIER). C. MAXIMUM 4" NOMINAL DIAMTER STEEL CONDUIT. D. MAXIMUM 4" NOMINAL DIAMETER EMT. 4. MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED (SEE NOTE NO. 2 BELOW). 5. MINIMUM 1-1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

MAXIMUM DIAMTER OF OPENING = 10".
 THICKNESS OF MINERAL WOOL TO BE ONE OF THE FOLLOWING:
 A. MINIMUM 1-1/4" THICKNESS FOR A 1-HR. FIRE RATING.
 B. MINIMUM 2-1/2" THICKNESS FOR A 2-HR. FIRE-RATING.

ANNULAR SPACE = MINIMUM 1", MAXIMUM 2-3/8".

FRONT VIEW

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY F RATING = 1-HR. OR 2-HR.

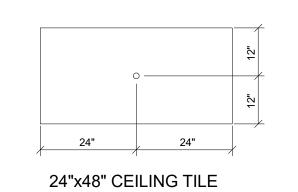
T RATING = 0-HR OR 1/4-HR.

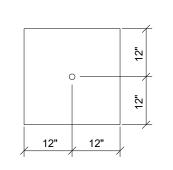
SECTION A-A

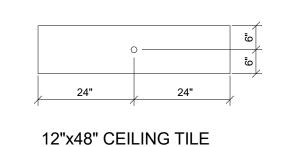
DESCRIPTION ZONE LIMIT/BOUNDARY LINE ——D—— DRAIN LINE F P FIRE PROTECTION LINE

---- SUB-ZONE LIMIT/BOUNDARY LINE

FIRE PROTECTION ABBREVIATIONS			
AB.	ABOVE	FLR.	FLOOR
ARCH.	ARCHITECT	F.D.	FLOOR DRAIN
CLG.	CEILING	F.P.	FIRE PROTECTION
CONN.	CONNECT	GA.	GAGE
CONTR.	CONTRACTOR	PLBG.	PLUMBING
C.W.	COLD WATER	RM.	ROOM
CONT.	CONTINUATION	SHT.	SHEET
ELEC.	ELECTRICAL	TYP.	TYPICAL
EXIST.	EXISTING		







24"x24" CEILING TILE

CONTRACTOR.

SPRINKLER HEAD LOCATION NOTES I. ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2", AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPERANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES, AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHIC-ALLY DIVIDED) SURFACE TILES. THE APPEARANCE OF THE FINISHED CEILING TILE FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE

FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHI-TECTURAL DOCUMENTATION. PENDANT SPRINKLER HEADS TO BE INSTALLED WITH DEFLECTORS AT SAME ELEV-ATION AS ADJACENT SPRINKLERS IN SAME AREA/ENCLOSURE, PLUS OR MINUS 1/4". RECESSED HEADS TO BE INSTALLED SO DEFLECTOR IS A MAXIMUM OF 1" BELOW THE ELEVATION OF THE CEILING PLANE. CONCEALED HEADS TO BE IN-STALLED WITH COVERS FLUSH TO CEILING PLANE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. . INSTALLATION OF ALL SPRINKLER HEADS TO BE COORDINATED WITH STRUCTURE

SPRINKLER HEAD LOCATION DETAIL

AND WORK OF OTHER TRADES, VERIFIED IN ADVANCE BY THE FIRE PROTECTION

FIRE PROTECTION EQUIPMENT

LAYOUT OF ALL SPRINKLER HEADS SUBJECT TO APPROVAL BY ARCHITECT/OWNER.

FIRE PROTECTION SPRINKLER HEADS

- RECESSED PENDENT HEADS: SIMILAR TO VIKING MICROFAST QUICK RESPONSE SPRINKLERS (K5.6 & 8.0) ORIFICE WITH ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON & HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. COLOR TO BE COORDINATED W/ARCHITECT/OWNER IN ADVANCE. HORIZONTAL DEFLECTOR SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR. DRY PIPE BARREL HEADS TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. DRY BARREL HEADS FOR USE IN AREAS SUBJECT TO FREEZING WITH ADJACENT CONDITIONED SPACE FOR INSTALLATION OF WET SUPPLY PIPING AND ASSOCIATED ITEMS.
- CONCEALED PENDENT HEADS: SIMILAR TO VIKING MIRAGE QUICK RESPONSE (K5.6 & 8.0). FLAT COVERPLATE WITH MANUFACTURER APPLIED FINISH. COLOR TO BE COORDINATED W/ARCHITECT/OWNER IN ADVANCE. HORIZONTAL DEFLECTOR SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR. PROVIDE IN AREAS WHERE REQUIRED AND AS DIRECTED BY THE ARCHITECT/OWNER AS CONFIRMED IN ADVANCE BY THIS CONTRACTOR.
- <u>UPRIGHT HEADS</u>: SIMILAR TO VIKING MICROFAST QUICK RESPONSE SPRINKLERS (K5.6 & 8.0) BRASS FINISH. SIDEWALL HEAD (IF REQUIRED) TO BE SIMILAR, WITH VERTICAL OR HORIZONTAL DEFLECTOR. DRY BARREL HEADS TO BE SIMILAR WITH 1" INLET, ADJUSTABLE DRY BARREL AND CENTER STRUT ACTUATOR. FOR USE IN AREAS WITHOUT CONCEALING "FINISH" STRUCTURE WITH EXPOSED SUPPLY PIPING. EXCEPTIONS TO BE APPROVED IN ADVANCED
- D. IN EXISTING CONDITIONS NEW SPRINKLER HEADS SHALL MATCH EXISTING BY TYPE, MAKE AND MANUFACTURER. EXCEPTIONS MUST BE PRESENTED IN WRITING AND APPROVED IN WRITING BY THE A/E IN ADVANCE OF WORK.

FIRE PROTECTION SPRINKLER PIPING

- A. SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH CLASS 125 CAST OR MALLEABLE IRON SCREWED FITTING AND JOINTS PER NFPA STANDARDS.
- B. SPRINKLER PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH CLASS 125 CAST OR MALLEABLE IRON SCREWED FITTINGS AND JOINTS OR VICTAULIC (OR EQUAL) ROLL GROOVE TYPE FITTINGS PER NFPA STANDARDS. HANGERS TO BE SIMILAR TO ANVIL FIG. 69 WITH GALVANIZED ADJUSTABLE NUT AND CAR- BON STEEL BAND. INSTALL IN

ACCORDANCE WITH NFPA PAMPHLET NO. 13 REQUIREMENTS.

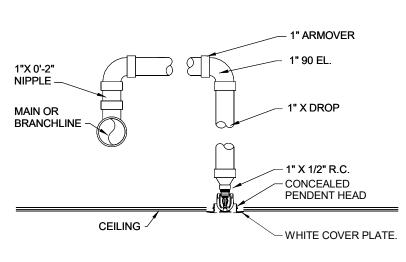
CONSTRUCTION NOTES

- ALL WORK TO BE SCHEDULED IN ADVANCE WITH THE OWNER.
- DESIGNATED WORK AREAS ARE AS INDICATED BY THE ARCHITECTURAL PLANS AND THE OWNER. ANY WORK REQUIRED
- WORK TO BE DONE IN SUCH A MANNER AS TO AVOID OR MINIMIZE INTERRUPTION OF NORMAL ACTIVITIES IN ADJACENT AREAS REMAINING IN OPERATION DURING CONSTRUCTION. ANY UTILITY OUTAGES OR IMPAIRMENTS TO BE SCHEDULED
- REQUIREMENTS PERTAINING TO SAME.

OF WORK.

- . HOURS AND AREAS OF ACCESS FOR CONSTRUCTION TO BE PER THE OWNER'S DIRECTION.
- 8. SEQUENCING AND PHASING OF WORK TO BE PER THE OWNER'S DIRECTION.
- OUTSIDE OF THESE AREAS TO BE APPROVED BY AND SCHEDULED IN ADVANCE WITH THE OWNER.
- WITH THE OWNER IN ADVANCE, AND EXECUTED IN THE MANNER DIRECTED.
- THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL FIRE PROTECTION RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC.. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND

ALL CONDITIONS UPON COMPLETION OF WORK INCLUDED UNDER THIS CONTRACT TO MATCH CONDITIONS PRIOR TO START



ARMOVER DETAIL

FIRE PROTECTION NOTES

ALL FIRE PROTECTION CONTRACT WORK IS TO COMPLY WITH THE APPLICABLE NFPA STANDARDS REFERENCED IN THE BUILDING CODE (OBC) AS ADMINISTERED BY THE LOCAL REVIEW/INSPECTION/APPROVAL AUTHORITIES, THE INSURANCE UNDERWRITER'S GUIDELINES, THE LOCAL FIRE PREVENTION AUTHORITY (FIRE MARSHALL'S OFFICE/FIRE DEPARTMENT), AND ANY OTHER AUTHORITIES HAVING JURISDICTION, AS CONFIRMED AND VERIFIED IN ADVANCE BY

THE LICENSED F.P. CONTRACTOR.

UNLESS DIRECTED OTHERWISE, WHERE NEW STRUCTURE IS BEING ADDED, AND/OR EXISTING STRUCTURE IS BEING REMOVED/RELOCATED/REMODELED/REPLACED OR OTHERWISE REVISED, THE F.P. CONTRACTOR SHALL REVISE THE EXISTING SPRINKLER INSTALLATION & PROVIDE NEW F.P. ITEMS AS REQUIRED TO PROVIDE/MAINTAIN THE COVERAGE SPECIFIED HEREIN. THIS INCLUDES SPACING AND LOCATION REQUIREMENTS (MIN./MAX.) BETWEEN SPRINKLER HEADS/PIPING. AND RELATIVE TO WALLS. SOFFITS. PARTITIONS & ANY OTHER OBSTRUCTIONS TO SPRINKLER DISCHARGE. THIS APPLIES TO WORK IN/AT THE REVISED AREA(S), AS WELL AS ALL ADJACENT AREAS WHERE WORK ASSOCIATED WITH THIS PROJECT IS BEING DONE. THE WORK AREAS ARE AS DEFINED BY THE FIRE PROTECTION & ARCHITECTURAL DOCUMENTS.

UNLESS DIRECTED OTHERWISE, EXISTING FIRE PROTECTION ITEMS THAT ARE IN USE PRIOR TO START OF WORK IN THIS CONTRACT ARE TO REMAIN IN USE UPON COMPLETION OF PROJECT, WHETHER THESE ITEMS ARE SHOWN ON DRAWINGS OR NOT. WHERE THESE ITEMS OBSTRUCT NEW WORK, AND/OR ARE IN EXPOSED LOCATIONS WHERE NEW CONCEALING FINISH STRUCTURE IS BEING PROVIDED UNDER SEPARATE CONTRACT, THEY SHALL BE RELOCATED AND ASSOCIATED WORK REVISED TO BE WITHIN CONCEALING STRUCTURE

UNLESS DIRECTED OTHERWISE, EXISTING FIRE PROTECTION ITEMS THAT ARE NOT IN PRIOR TO START OF WORK IN THIS CONTRACT THAT OBSTRUCT NEW WORK AND/OR ARE IN EXPOSED LOCATIONS WHERE NEW CONCEALING/FINISH STRUCTURE IS BEING PROVIDED UNDER SEPARATE CONTRACT SHALL BE REMOVED. INCLUDING ALL ASSOCIATED WORK, WHETHER INDICATED ON DRAWINGS OR NOT. PIPING (IF ANY) ASSOCIATED WITH THESE ITEMS TO BE REMOVED BACK TO NEAREST ACTIVE MAIN OUTSIDE OF THE EXPOSED LOCATION, OR TO WITHIN NEW CONCEALING STRUCTURE PROVIDED, AND CAPPED AT THAT POINT.

ALL EXISTING SPRINKLER HEAD LOCATIONS ARE TO BE FIELD VERIFIED BY THE FIRE PROTECTION CONTRACTOR IN ADVANCE

CUTTING/REMOVAL & REPAIR/REPLACEMENT OF EXIST. STRUCTURES, SURFACES AND/ OR FINISHES REQ'D. FOR REMOVAL OF EXIST. AND/OR INSTALLATION OF NEW F.P. WORK IS BY THIS CONTRACTOR., UNLESS INDICATED OTHERWISE. REPAIR/REPLACEMENT TO BE TO ORIGINAL CONDITION, TO MATCH ADJACENT STRUCTURES, SURFACES AND FINISHES IN TYPE AND KIND. THIS INCLUDES CEILINGS. PARTITIONS, FLOORS, SOFFITS, ETC., BOTH WITHIN AND OUTSIDE THE REVISED/REMODELED AREAS THAT ARE AFFECTED BY WORK REQUIRED FOR COMPLETION OF THIS PROJECT. NOT APPLICABLE IF EXISTING STRUCTURES, SURFACES AND/OR FINISHES ARE BEING REVISED/REMOVED/ REPLACED UNDER SEPARATE CONTRACT.

ANY NEW FIRE PROTECTION ITEMS/ELEMENTS REQUIRED ARE TO MATCH EXISTING ADJACENT ITEMS/ELEMENTS BY TYPE, KIND, AND FINISH AS VERIFIED BY THE FIRE PROTECTION CONTRACTOR IN FIELD, UNLESS INDICATED OTHERWISE.

EXISTING SPRINKLER HEADS SHALL NOT BE REUSED, REPLACED, AND/OR RELOCATED

WHERE NEW DROPPED CEILINGS ARE BEING PROVIDED UNDER SEPARATE CONTRACT, NEW SPRINKLER HEADS SHALL BE INSTALLED IN THE CEILING AS REQUIRED FOR PROPER PROTECTION/COVERAGE. THIS INCLUDES NEW DROPPED CEILINGS AT AREAS WITHOUT EXISTING CEILINGS; & AT AREAS WITH EXISTING CEILINGS BEING REPLACED (INCLUDING REPLACEMENT AT SAME ELEVATION AS EXISTING CEILING). CEILING CONDITIONS & MODIFICATIONS TO BE CONFIRMED FROM ARCHITECTURAL DOCUMENTATION, AND VERIFIED IN

). MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM SHALL BE ACCORDING TO NFPA PAMPHLET NO. 13, THE APPLICABLE BUILDING CODE AND THE INSURER'S GUIDELINES, RULES AND REGULATIONS (REQUIRED FOR APPROVAL). SPECIFIC AREAS DESIGNATED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

INSTALLATION COMPLIES WITH ALL SPECIFIED CONDITIONS.

LIGHT HAZARD OCCUPANCY = 0.1 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 225 SQUARE FEET PER

AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1,500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD. DESIGN AREAS LISTED HEREIN MAY BE REDUCED IN ACCORDANCE WITH NFPA PAMPHLET

ORDINARY HAZARD GROUP 1 OCCUPANCY = 0.15 GPM PER SQUARE FOOT OF FLOOR

NO. 13 ALLOWANCE FOR USE OF QUICK RESPONSE SPRINKLER HEADS, PROVIDED THE

1. THE EXISTING BUILDING IS FULLY SPRINKLED PER NFPA PAMPHLET NO. 13 AND PROVIDED WITH COMPLETE STANDPIPE PROTECTION PER PAMPHLET NO. 14: AND IN ACCORDANCE WITH THE BUILDING CODE. WORK IN THIS CONTRACT IS TO MAINTAIN THIS CONDITION FOR THE INDICATED

TENANT FINISH PORTION OF THE STRUCTURE, AS WELL AS EXISTING ADJACENT AREAS. 12. THE EXISTING BUILDING SPRINKLER ZONES ARE TO BE MAINTAINED BY NEW WORK. 13. THE FIRE PROTECTION CONTRACTOR SHALL SIZE ALL FIRE PROTECTION SYSTEM PIPING ACCORDING TO HYDRAULIC CALCULATIONS AND/OR PER PIPE SCHEDULE FOR PIPE SCHEDULED

IED BY NFPA WAITH THE EXCEPTION OF PIPING SIZES INDICATED ON THESE

PLANS AT SPECIFIC LOCATIONS. 14. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL ADDITIONAL PIPING, EQUIP. AND ACCESSORIES WHETHER SHOWN ON DWG'S. OR NOT, WHICH IS REQ'D TO PROVIDE AND MAINTAIN COMPLETE STANDPIPE, SPRINKLER & OTHER FIRE PROTECTION SYSTEMS FOR THE

15. FIRE PROTECTION CONTRACTOR TO LOCATE AND INSTALL ALL SPRINKLER HEADS IN LAY-IN CEILINGS PER DETAILS INCLUDED WITH THESE DRAWINGS. 16. COORDINATE ALL SPRINKLER DROPS FOR HEAD LOCATION WITH CLG. GRIDS, STRUCTURE AND WORK IN OTHER CONTRACTS IN SAME AREA. VERIFY LOCATION OF ALL ITE™SEMENTS FROM

DOCUMENTS, & COORD. INSTALLATION W/ APPROPRIATE CONTRACTORS. 7. FIRE PROTECTION CONTRACTOR TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQ'D. FOR COORDINATION AND APPROVED INSTALLATION.

ARCHITECTURAL & OTHER CONTRACTS PLANS INCLUDED W/COMPLETE CONSTRUCTION

18. FIRE PROTECTION PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCH- GEAR, MOTOR CONTROL CENTERS OR PANELS, INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN. 30" WIDE, UNDER ANY CIRCUMSTANCES. NEW ITEM LOCATIONS TO BE VERIFIED FROM ELECTRICAL DRAWINGS, AND INSTALLATION COORDINATED WITH ELECTRICAL

LOCATION OF EXISTING ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED IN THE FIELD PRIOR TO START OF WORK.

19. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL PROJECT DOCUMENTATION FOR ITEMS AFFECTING FIRE PROTECTION WORK, INCLUDING SPECIFIC DIRECTIONS AND ITEMS OF A GENERAL NATURE, WHICH MAY NOT BE REFERRED TO BY THE F.P. DOCUMENTATION.

CONTRACTOR IN ADVANCE OF F.P. INSTALLATION.

20. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE FIRE PROTECTION CONTRACT NOT SPECIFICALLY INTENDED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING

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1937 EDISON DRIVE PIQUA, OHIO 45653

EDISON STATE



ARCHITECT



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CONSTRUCTION DOCUMENTS



DRAWN BY: JAH PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024 REV.

NO.	DESCRIPTION	DATE

FIRE PROTECTION NOTES & DETAILS

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN **APPROVAL PURPOSES**

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAIL HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMIT, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW AND APPROVAL.

DESIGNED BY

KJO

PRATER ENGINEERING ASSOCIATES 6130 Wilcox Road Dublin, Ohio 43016 Phone: (614) 766-4896 Fax: (614) 766-2354 DRAWN BY CHECKED BY JOB NUM.

CMA

AIR FLOW TRANSDUCER/TEMPERATURE MONITOR AIR HANDLING UNIT (W/ INTEGRAL DEVICES FOR COOLING, HEATING, CLEANING AND/OR LAT LEAVING AIR TEMPERATURE (IN F, UNLESS OTHERWISE NO TED) FILTRATION OF THE CIRCULATED AIR). TERM MAY BE USED INTERCHANGEABLY WITH ADU'S LF LINEAR FEET LOW LIMIT SWITCH AIR HANDLING UNIT, W/ INTEGRAL DEVICES FOR INCREASED DEHUMIDIFICATION LIQUID PETROLEUM AIR HANDLING UNIT, W/ INTEGRAL DEVICES FOR ENERGY RECOVERY LOW PRESSURE STEAM SUPPLY

AMBIENT **ACCESS PANEL** MOTOR AIR PRESSURE DROP (IN INCHES OF WATER COLUMN) MIXED AIR TEMPERATURE (IN F, UNLESS OTHERWISE NOTE D) AIR SEPARATOR MAXIMUM EQUIVALENT TO 1,000 BTUH **ACID RESISTANT** AIR RELIEF VALVE, MANUAL AIR VENT MECHANICAL AIR TRANSFER MANUFACTURER

AIR TEMPERATURE DROP (IN F. UNLESS OTHERWISE NOTED) MANHOLE AIR TEMPERATURE RISE (IN F, UNLESS OTHERWISE NOTED) MINIMUM AIR TURNING VANES MISCELLANEOUS AUTOMATIC MOTORIZED OPERATED DAMPER AIR VOLUME EXTRACTOR MEDIUM PRESSURE STEAM SUPPLY MOUNTED BOILER CIRCULATION PUMP MAKE-UP AIR HANDLING UNIT BAROMETRIC DAMPER OR BAROMETRIC, COUNTER BALANCED GRAVITY OPERATED DAMPER NOT IN CONTRACT BACKDRAFT DAMPER BREAK HORSPOWER.(IN HORSEPOWER) NUMBER BUILDING NOMINAL

NON-POTABLE WATER BOTTOM OF DUCT/DEVICE (IN UNITS NOTED) BAROMETRIC PRESSURE (IN INCHES OF MERCURY, UNLESS OTHERWISE NOTED) OUTDOOR AIR BRITISH THERMAL UNITS OUTDOOR AIR TEMPERATURE (IN F, UNLESS OTHERWISE NO TED) BRITISH THERMAL UNITS PER HOUR ON CENTER OUTDOOR DIAMETER (IN INCHES, UNLESS OTHERWISE NOTED) **COMBUSTION AIR UNIT** CHILLED BEAM, ACTIVE OIL RETURN

NOT TO SCALE

NATURAL GAS

PUMPED CONDENSATE

PROPELLER UNIT HEATER

REVOLUTIONS PER MINUTE

REFRIGERANT SUCTION

SUPPLY AIR GRILLE

POLYVINYL CHLORIDE

CHILLED BEAM, ACTIVE DISPLACEMENT AIR UNIT OIL SUPPLY CHILLED BEAM, PASSIVE PNEUMATIC/ELECTRIC PRESSURE/TEMPERATURE PORT, PETE'S PLUG COIL CIRCULATION PUMP

PREHEAT COIL CUBIC FEET PER HOUR (GAS UNIT OF MEASURE) PREFABRICATED AIR/GAS FLOW RATE (IN CUBIC FEET PER MINUTE) PRESSURE **PRFS** CHEMICAL SHOT FEEDER PRESSURE REDUCING VALVE POUNDS PER SQUARE FOOT CHILLED WATER PUMP POUNDS PER SQUARE INCH CHILLED WATER RETURN PACKAGE TERMINAL AIR CONDITIONING UNIT CHILLED WATER SUPPLY

RADIANT RADIUS RETURN AIR RADIANT CEILING PANEL CONDENSATE PUMP REQUIRED REQ'D COMPUTER ROOM UNIT REFRIGERANT MONITOR **CURRENT SENSING RELAY** RETURN AIR GRILLE RELIEF HOOD REHEAT COIL CABINET UNIT HEATER REFRIGERANT LIQUID CONDENSER WATER PUMP

ROOF TOP AIR HANDLING UNIT ROOF MOUNTED VENTILATOR DRY BULB TEMPERATURE (IN F, UNLESS OTHERWISE NOTED) RETURN AIR WALL OPENING (ABOVE CEILING, UNLESS OTHERWISE NOTED) DUST COLLECTOR DOMESTIC COLD WATER

STEAM CONDENSATE DEDICATED OUTDOOR AIR SYSTEM SCHEDULE DIFFERENTIAL PRESSURE (IN FEET OF HEAD, UNLESS OTHERWISE NOTED) SMOKE DAMPER DIFFERENTIAL PRESSURE SWITCH SUPPLY FAN DIFFERENTIAL PRESSURE TRANSMITTER SHEET DUCT SILENCER SIMILAR DIFFERENTIAL TEMPERATURE (IN F, UNLESS OTHERWISE NOTED) LINEAR SLOT DIFFUSER DOOR UNDER CUT (IN INCHES, UNLESS OTHERWISE NOTED)

TOD

TXV

STATIC PRESSURE (IN INCHES OF WATER COLUMN FOR AIR/GAS SYSTEMS) SPECIFICATION(S) STANDARD SHOT FEEDER

SUPPLY AIR (WITH A UNIT MEASUREMENT OF CFM)

TEMPERATURE (IN F, UNLESS OTHERWISE NOTED) TRANSFER AIR TEMPERATURE CONTROL TEMPERATURE CONTROL CONTRACTOR TEMPERATURE CONTROL SYSTEM CONTROL PANEL TEMPERATURE CONTROL SYSTEM TEMPERATURE DROP (IN F, UNLESS OTHERWISE STATED) TEMPERATURE (IN ♥, UNLESS OTHERWISE STATED) TOP OF DUCT/DEVICE (IN UNITS NOTED) TEMPERATURE RISE (IN F, UNLESS OTHERWISE STATED)

LEAVING WATER TEMPERATURE (IN F, UNLESS OTHERWISE NOTED)

THERMAL EXPANSION VALVE TYPICAL **UNIT HEATER** UNIT VENTILATOR VACUUM VARIABLE AIR VOLUME VOLUME DAMPER

VELOCITY (IN FEET PER MINUTE UNLESS OTHERWISE NOTED) VENTILATION FAN VARIABLE FREQUENCY CONTROLLER (OR VFD) VARIABLE REFRIGERANT VOLUME HEAT PUMP UNIT, FOR VRF SYSTEMS VERIFY IN FIELD REFRIGERANT SYSTEM CONTROLLER, FOR VRF SYSTEMS VARIABLE REFRIGERANT FLOW

FUEL OIL RETURN FUEL OIL SUPPLY DUAL INLET VARIABLE PRIMARY AIR VOLUME TERMINAL UNIT FUEL OIL VENT VARIABLE PRIMARY AIR VOLUME TERMINAL UNIT FIRE PROTECTION FAN POWERED VARIABLE PRIMARY AIR VOLUME TERMINAL UNIT FEET PER MINUTE FILTER RACK FEET OF HEAD

WITH WITHOUT WET BULB TEMPERATURE (IN F. UNLESS OTHERWISE STATE D) WATER PRESSURE DROP (IN FEET OF HEAD, UNLESS OTHERWISE NOTED) WALL REGISTER

MECHANICAL SYMBOLS

PIPE ELBOW DOWN PRESSURE/TEMPERATURE PORT, (P/T PORT) \leftarrow \Box PIPE ELBOW UP WATER PRESSURE REDUCING/REGULATING VALVE (PLAN VIEW) PIPE TEE BELOW WITH BRANCH ELBOW AT DOWN WATER PRESSURE RELIEF VALVE (PLAN VIEW) PIPE TEE ABOVE BRANCH PIPE BELOW GAS SHUTOFF COCK INDICATES DIRECTION OF DOWNWARD PITCH LUBRICATED PLUG VALVE PIPE EXPANSION U-LOOP (DIMENSIONS SHOWN AS 24"x48") STEAM PRESSURE REDUCING VALVE PIPE EXPANSION Z-LOOP (Z DIMENSION SHOWN AS 24") \longrightarrow GAS PRESSURE REDUCING/REGULATING VALVE EXP EXP PIPE EXPANSION L-LOOP (DIMENSIONS NOT SHOWN) DOUBLE CHECK VALVE, BACKFLOW ASSEMBLY PIPE ANCHOR DOUBLE CHECK VALVE, PRESSURE REDUCING BACKFLOW ASSEMBLY PIPE ALIGNMENT GUIDE ATMOSPHERIC VACUUM BREAKER PIPE EXPANSION/COMPRESSION JOINT PRESSURE VACUUM BREAKER STRAINER \leftarrow STEAM TRAP STRAINER, BLOW-OFF VALVE **BLIND FLANGE** SUCTION DIFFUSER, WITH STRAINER AND DRAIN HEATING HOT WATER SUPPLY - - -HHR- - - HEATING HOT WATER RETURN SUCTION DIFFUSER, WITH DRAIN AND NO STRAINER — — CHS — — CHILLED WATER SUPPLY \leftarrow — – – CHR– – — CHILLED WATER RETURN NON-POTABLE WATER VALVE (REFER TO SECTION 230532 FOR APPROPRIATE TYPE) MEDIUM PRESSURE STEAM SUPPLY \leftarrow LOW PRESSURE STEAM SUPPLY - ARROW SHOWS DIRECTION OF FLOW STEAM CONDENSATE SPRING LOADED CHECK VALVE - ARROW SHOWS DIRECTION OF FLOW IN-FLOOR RADIANT PIPING MANUAL BALANCING VALVE PIPE WITH HEAT TRACING CONDENSER WATER SUPPLY MULTIPURPOSE VALVE (TRIPLE DUTY VALVE) - − −CR− − CONDENSER WATER RETURN AUTOMATIC FLOW CONTROL BALANCING VALVE RL—RL—REFRIGERANT LIQUID - - -RS- - - REFRIGERANT SUCTION

PNEUMATIC-OPERATED VALVE

SOLENOID-OPERATED VALVE

MANUAL AIR RELIEF VENT

AUTOMATIC AIR RELIEF VENT

FLEXIBLE CONNECTION, RUBBER

FLEXIBLE CONNECTION, BRAIDED

A.S.M.E. PRESSURE RELIEF VALVE

FLOW SWITCH

MOTOR OPERATED 2-WAY CONTROL VALVE

MOTOR OPERATED 3-WAY CONTROL VALVE

- PIPE TO NEAREST DRAIN

- PIPE TO NEAREST DRAIN

- PRESSURE RATING INDICATED IN PSI

THERMOMETER, MOUNTED IN THERMOWELL

PRESSURE GAUGE, WITH SHUTOFF VALVE

PRESSURE SENSOR, WITH SHUTOFF VALVE

DIFFERENTIAL PRESSURE TRANSMITTER

THE AIR DEVICE SIZE IN INCHES, 24x24

LIQUID LOW LIMIT SWITCH

EQUIPMENT SCHEDULE TAG

DETAIL REFERENCE BUBBLE

SECTION REFERENCE BUBBLE

C - CARBON DIOXIDE SENSOR

I - BIPOLAR ION GENERATOR

P - STATIC PRESSURE SENSOR S - TEMPERATURE SENSOR

T - TEMPERATURE THERMOSTAT

SENSOR WITH PROTECTIVE WALL GUARD *APPROPRIATE SENSOR WILL BE SIGNIFIED

H - HUMIDITY SENSOR

CODED NOTE

EQUIPMENT NOTE

TEMPERATURE SENSOR, MOUNTED IN THERMOWELL

FLOW METER (RETRACTABLE), WITH SHUTOFF VALVE

WATER METER, IN UNITS OF GALLONS PER MINUTE (GPM)

- DESIGNATIONS DEVICE DESIGNATIONS SHALL BE USED

- A TWO DIMENSIONAL NOTE SEPARATED BY A "x" INDICATES

- A SINGLE DIMENSION NOTE INDICATED BOD ELEVATION, 10'8"

- A UNITLESS NUMBER NOTE INDICATES AIR FLOW IN CFM. 400

CONNECT NEW TO EXISTING, FIELD VERIFY EXISTING CONDITIONS

- A DEGREE SYMBOL INDICATES VANE DEFLECTION, 35°

OR CLARIFICATION PURPOSE IN ANY

CONFIGURATION AND MAY NOT BE USED

REFER TO PROJECT SPECIFICATIONS FOR DUCT INSTALLATION REQUIREMENTS. DIMENSIONS SHOWN INDICATED FREE AREA,

ACCOUSTICALLY LINED DUCT
REFER TO PROJECT SPECIFICATIONS FOR DUCT INSTALLATION REQUIREMENTS. DIMENSIONS SHOWN INDICATED FREE AREA, INSIDE DUCT MEASUREMENTS.

INSIDE DUCT MEASUREMENTS. DUCT SIZE INDICATED IN

INCHES WITH SHOWN DIMENSION INDICATED FIRST.

<u>DUCT MOUNTED AIR VOLUME BALANCING DAMPER</u>
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS. AS SYMBOLIZED WITH OR WITHOUT NOTATION.

INSTALLATION DETAILS.

FD INDICATES FIRE DAMPER; ADDITIONAL DESIGNATIONS MAY ALSO BE USED. SUCH AS A NUMBER TO INDICATE THE RATING OF THE FIRE DAMPER, FOR 2 OR 3 HOUR DAMPERS AND/OR THE LETTER INDICATING THE TYPE OR STYLE OF A FIRE DAMPER, OF TYPES A, B, OR C.

REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS.

WALL MOUNTED COMBINATION FIRE/SMOKE DAMPER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS. REFER TO SPECIFICATION SECTION 230900 FOR INSTALLATION REQUIREMENTS. DAMPERS TO BE SIZED TO INSIDE DUCT

DIMENSIONS. DAMPER SHALL BE OPPOSED BLADE UNLESS OTHERWISE NOTED. DUCT OR EQUIPMENT MOUNTED TEMPERATURE SENSOR

DUCT OR EQUIPMENT MOUNTED HUMIDITY SENSOR

DUCT OR EQUIPMENT MOUNTED CARBON DIOXIDE SENSOR

DUCT OR EQUIPMENT MOUNTED DIFFERNTIAL PRESSURE SENSOR AS COMPARED WITH ATMOSPHERIC CONDITIONS

----RG----- REFRIGERANT HOT GAS

PC—PC—PUMPED CONDENSATE

———AV——— ATMOSPHERIC VENT

BDD BDD

"OR"

"OR"

GRAVITY CONDENSATE DRAIN

DUCT OR EQUIPMENT MOUNTED DIFFERNTIAL PRESSURE SENSOR MONITORING INTERNAL SYSTEM LOSS

DUCT OR EQUIPMENT MOUNTED LOW TEMPERATURE SENSOR G - PROTECTIVE WALL GUARD M - MULTIFUCTIONAL THERMOSTAT DUCT OR EQUIPMENT MOUNTED HIGH TEMPERATURE SENSOR RECTANGULAR DUCT SUPPLY AIR ELBOW UP/DOWN

RECTANGULAR DUCT RETURN/EXHAUST AIR ELBOW UP/DOWN

UNLESS OTHERWISE NOTED. REFER TO PROJECT

SPECIFICATIONS FOR CONSTRUCTION DETAILS. 90°RECTANGULAR DUCT ELEVATION TRANSITION

RECTANGULAR DUCT ELEVATION TRANSITION. APPROPRIATE ANGULAR DIMENSIONS TO BE COORDINATED BY THE CONTRACTOR

ALL MITERED ELBOWS ARE TO CONTAIN TURNING VANES

RECTANGULAR DUCT TOP OR BOTTOM TRANSITION

RECTANGULAR DUCT MULTI SIDE TRANSITION MAXIMUM SLOPE = 45° SIDE WITH MAXIMUM SLOPE DETERMINES FITTING LENGTH. REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

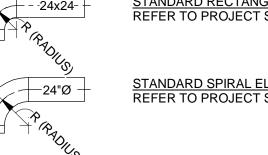
> MINIMUM SLOPE = 15° MAXIMUM SLOPE = 45° REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

OVAL TO SPIRAL DUCT DIMENSION DESCRIPTION
OVAL TO SPIRAL DUCT TRANSITION SHOWN. ALL SIZES SHOWN IN INCHES, UNLESS OTHERWISE NOTED. 24/16 = FLAT OVAL DUCT 24" WIDE WITH 16" DIAMETER SIDES

REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

SPIRAL DUCT ELBOW UP/DOWN

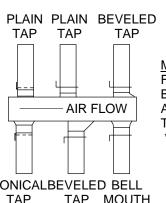
SPIRAL DUCT ELEVATION TRANSITION. APPROPRIATE ANGULAR DIMENSIONS TO BE COORDINATED BY THE CONTRACTOR.



TANDARD RECTANGULAR ELBOW; RADIUS (R) = DUCT DIAMETER REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

TANDARD SPIRAL ELBOW; RADIUS (R) = 1.5 x DUCT DIAMETER REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

SPIRAL MITERED ELBOW; RADIUS (R) = 0"
ALL MITERED ELBOWS ARE TO CONTAIN TURNING VANES UNLESS OTHERWISE NOTED. REFER TO PROJECT SPECIFCATIONS FOR CONSTRUCTION DETAILS.



FOR DUCT INSTALLATIONS SERVING MULTIPLE AIR DEVICES, INSTALL BALANCING DAMPERS AFTER THE BRANCH TAKEOFFS SERVING SINGLE ─ AIR FLOW AIR DEVICES. SEVERAL TYPES OF TAKEOFFS ARE AVAILABLE, SELECT THE TAKEOFF AS INDICATED ON THE PLAN DRAWINGS. *TAPS MAY BE UTILIZED WITH VARIOUS TAKEOFF ANGLES OTHER THAN 90 DEGREES FROM THE MAIN. REFER TO PLANS FOR INDICATION.

CONICALBEVELED BELL TAP TAP MOUTH WxH __d--**-**-d--

ACOUSTICAL BOOTS NOT ATTACHED TO EQUIPMENT, AIR DEVICES, OR OTHERWISE INDICATED ON THE CONSTRUCTION DRAWINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MINIMIZED NOISE TRANSFERRED BETWEEN SPACES. IN MOST CASES, ACOUSTICAL ELBOWS WILL NOT BE TAGGED OR LABELED AS AN ACOUSTICAL ELBOW (AE), BUT THEIR INTENDED USE SHALL INFER THE APPROPRIATE CONSTRUCTION DIMENSION. 1" DUCT LINER

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK WITH OTHER TRADES DURING CONSTRUCTION. REFER TO DIVISION 9 SPECIFICATIONS FOR LISTED CONSTRUCTION FINISHES OF EXPOSED EQUIPMENT, DUCT, PIPE, ETC. UNLISTED ITEMS SHALL BE SUBMITTED TO THE PROJECT ARCHITECT FOR CLARIFICATION. ANY DUCT, PIPE, EQUIPMENT, OR ETC. INSTALLED IN A FINISHED EXPOSED SPACE SHALL BE ASSUMED TO BE PAINTED & SHALL THEREFORE BE THOROUGHLY CLEANED & PREPARED UNLESS

2. CONTRACTOR SHALL COORDINATE AIR DEVICE LOCATIONS WITH REFLECTED CEILING, INTERIOR

3. CONTRACTOR SHALL REFER TO EQUIPMENT SCHEDULES FOR TAGGED EQUIPMENT PERFORMANCE REQUIREMENTS & CONSTRUCTION DOCUMENTS FOR MINIMUM INSTALLATION REQUIREMENTS, UNLESS OTHERWISE NOTED.

4. CONTRACTOR IS RESPONSIBLE TO INSTALL DUCT & PIPE TRANSITIONS FOR THE SELECTED EQUIPMENT AS NECESSARY FOR CONNECTION OF THE INDICATED DUCT & PIPE SIZES.

5. UNLESS OTHERWISE INDICATED, ALL ABOVE CEILING SPACE(S) SHALL BE CONSIDERED PART OF THE RELIEF AIR PLENUM. THEREFORE ALL PIPE, DUCT, CONTROL DEVICES, WIRING, & EQUIPMENT SHALL BE RATED & ACCEPTABLE FOR INSTALLATION IN A PLENUM SPACE.

6. WHENEVER POSSIBLE, DUCT, PIPING, CONTROL DEVICES, & EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 8" ABOVE THE FINISHED CEILING ELEVATION TO AVOID INSTALLATION CONFLICTS WITH CEILING MOUNTED DEVICES & UNLESS OTHERWISE NOTED, THE BOTTOM OF HVAC EQUIPMENT SHALL BE A MAXIMUM OF 24" ABOVE CEILING ELEVATIONS & UNOBSTRUCTED BY DUCT, PIPING, EQUIPMENT & ETC. FOR SERVICE & MAINTENANCE PURPOSES.

7. INSTALL METAL SLEEVES THROUGH WALL PENETRATION CONSISTING OF UNIFORM CONSTRUCTION MATERIALS. INSTALL FIRE CAULKING AS NECESSARY, REFER TO THE ARCHITECTURAL SHEETS FOR DESIGNATION OF FIRE & SMOKE RATED WALL ASSEMBLIES. REFER TO DIVISION 07 SPECIFICATIONS FOR FIRE STOPPING MATERIAL DETAILS.

8. WHEN UTILIZING STRUCTURAL STEEL FOR SUPPORT OF DUCT, PIPE & EQUIPMENT HANGERS, ATTACHMENT TO THE STRUCTURAL STEEL SHALL OCCUR AT THE TOP OR BOTTOM FLANGE OF THE STRUCTURAL ELEMENT.

9. SYMBOLS & ABBREVIATIONS ON THIS SHEET MAY NOT ALL BE USED WITHIN THIS SET OF PROJECT DOCUMENTS.

10. ALL EXPOSED DUCT, BARE OR INSULATED, SHALL RECEIVE FIELD APPLIED FINISH. DUCT SHALL BE TREATED WITH COMPATIBLE GALVANIZED STEEL PRIMER & CLEANED BEFORE FINSH APPLICATION. CONVOCATION **CENTER** EXPANSION

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EDISON STATE COMMUNITY COLLEGE



ARCHITECT



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CONSTRUCTION DOCUMENTS



PROJECT MANAGER: RW DRAWN BY: Author PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

NO.	DESCRIPTION	DATE

HVAC SYMBOLS & ABBREVIATIONS

ACU

AFF

AFMS

AFP

AFT

AHU

ARU

ALT

AMB

ARV

ATR

ATV

BDD

BHP

BLDG

BOD

BTU

CBD

CBP

CC

CCP

CD

CSF

CHP

CHR

CHS

CLG

CO

COL

CP

CRU

CWR

CWS

DIA / Ø

DOAS

DUC

DWG

ECON

EFF

ELEV

EMER

EQUIP

ERC

ERW

ERV

EXH

EXP

EXT

F&T

FCV

FD

FOR

FOS

FOV

FT HD

FTR

GLR

GLS

HDG

HG

HHR

HHS

HLS

HPW

COND

CHLR

BTUH

AUTO

ALUMINUM

ALTERNATE, ALTERNATIVE

BUILDING MANAGEMENT SYSTEM

COOLING COIL

CHILLER

CEILING

CENTER LINE

COMPRESSOR

CLEAN OUT

CONDENSER

CONVECTOR

DELTA T / ΔT TEMPERATURE DIFFERENCE

DRAWING

ECONOMIZER

EFFICIENCY

ELEVATION

EMERGENCY

EXPANSION TANK

EQUIPMENT

EXISTING

EXHAUST

EXPANSION

FAN COIL UNIT

FIRE DAMPER

FIN TUBE RADIATION

FEET

GAUGE

GALLON(S)

GALVANIZED

GLYCOL FEEDER

HEATING COIL

GALLONS PER MINUTE

HEAVY DUTY GRILLE

HIGH LIMIT SWITCH

HORSEPOWER

REFRIGERANT HOT GAS

HEATING HOT WATER RETURN

HEATING HOT WATER SUPPLY

HEAT PUMP LOOP RETURN

HEATING HOT WATER PUMP

WATER TO WATER HEAT PUMP UNIT

HEATING/VENTILATING/AIR CONDITIONING

HEAT PUMP LOOP SUPPLY

EXTERIOR

EXHAUST FAN

EXHAUST GRILL

EXHAUST HOOD

COOLING TOWER

CONDENSING UNIT

CONDENSER WATER RETURN

CONDENSER WATER SUPPLY

DOMESTIC HOT WATER

ELECTRICAL/PNEUMATIC

ELECTRIC, ELECTRICAL

ENERGY RECOVERY CHILLER

ENERGY RECOVERY VENTILATOR

FLOAT AND THERMOSTATIC TRAP

FAN COIL UNIT, FOR VRF SYSTEMS

COMBINATION FIRE/SMOKE DAMPER

CONDENSATE PIPING - GRAVITY DRAINAGE

HEAT PUMP AIR HANDLING UNIT, AIR OR WATER SOURCE

GROUND/GEOTHERMAL LOOP RETURN

GROUND/GEOTHERMAL LOOP SUPPLY

DIAMETER (IN INCHES, UNLESS OTHERWISE NOTED)

ENTERING AIR TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)

ENERGY RECOVERY WHEEL, ALSO REFERRED TO AS A HEAT WHEEL

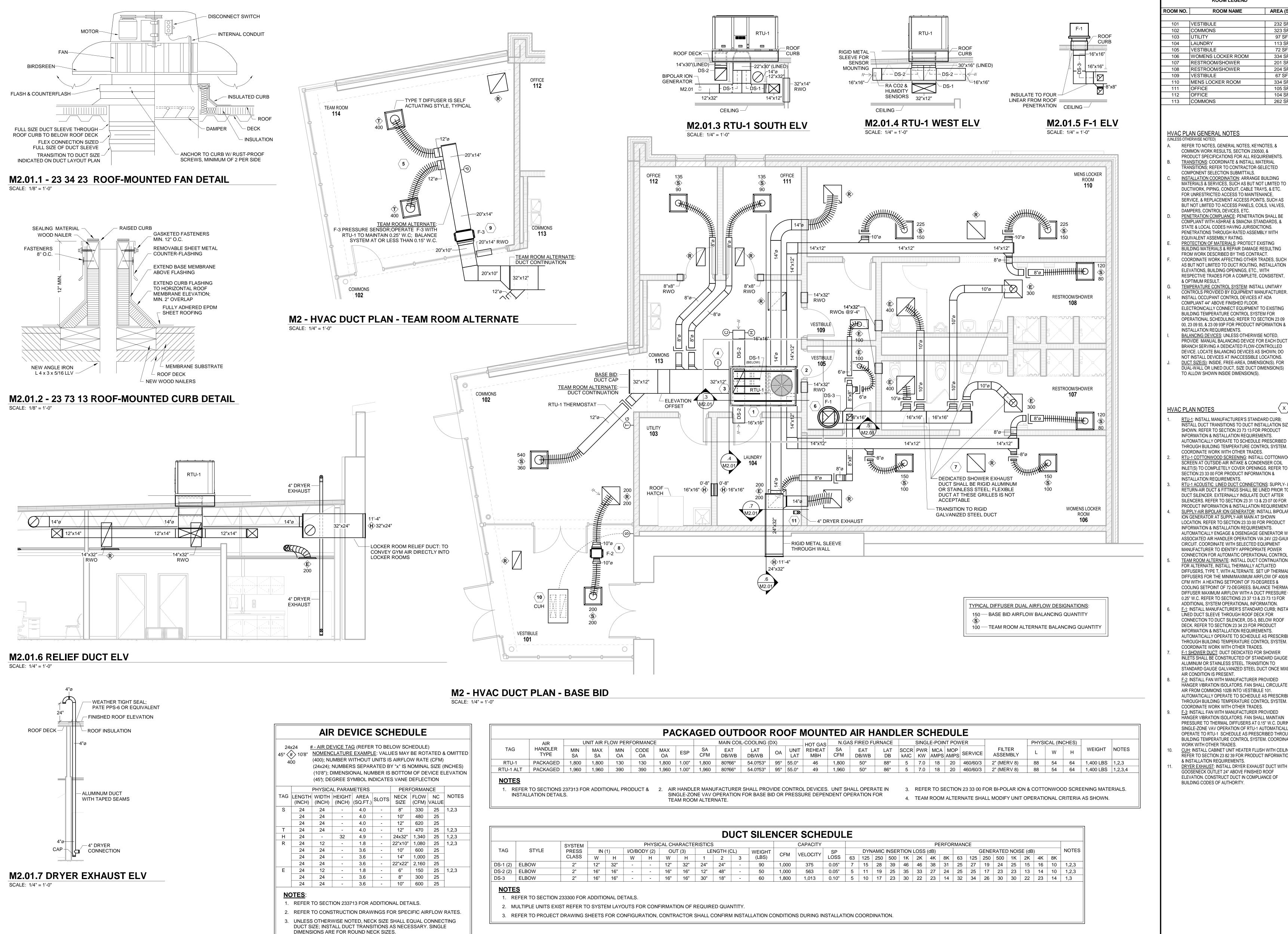
ENTERING WATER TEMPERATURE (IN F, UNLESS OTHERWISE NOTED)

EXPANDED METAL (MINIMUM OF 70% FREE AREA, UNLESS OTHERWISE NOTED)

COLUMN

CONTROL DAMPER

CARTRIDGE FILTER



FAN SCHEDULE

1. REFER TO SECTION 233423 FOR ADDITIONAL DETAILS & SECTION 230993 FOR CONTROL REQUIREMENTS.

CABINET INLINE

F-3 CABINET INLINE

IMP CFM RPM ESP SOUND MOTOR WEIGHT ELECTRICAL

DIA (MIN/MAX) (MAX) (MAX) (INLET) DRIVE TYPE (LBS) BHP/HP SERVICE

14" | 1,800 / 1,800 | 1,140 | 0.40" | 59 dBA | DIRECT | PSC | 80 | 0.30 / 0.33 | 115/60/1 | 1

200 / 200 | 900 | 0.25" | 40 dBA | DIRECT | PSC | 30 | 0.07 / 0.10 | 115/60/1 | 1

800 / 400 | 1,200 | 0.10" | 33 dBA | DIRECT | EC | 40 | 0.18 / 0.25 | 115/60/1 | 1

ROOM LEGEND COPYRIGHT 2024 BY FANNING/HOWEY ASSOCIATES, INC **ROOM NAME** AREA (SF) COMMONS 97 SF 113 SF 72 SF 106 WOMENS LOCKER ROOM 334 SF 107 RESTROOM/SHOWER 201 SF RESTROOM/SHOWER VESTIBULE CONVOCATION MENS LOCKER ROOM 104 SF CENTER **EXPANSION** HVAC PLAN GENERAL NOTES REFER TO NOTES, GENERAL NOTES, KEYNOTES, & COMMON WORK RESULTS, SECTION 230500, & PRODUCT SPECIFICATIONS FOR ALL REQUIREMENTS TRANSITIONS: COORDINATE & INSTALL MATERIAL TRANSITIONS; REFER TO CONTRACTOR-SELECTED COMPONENT SELECTION SUBMITTALS. 1937 EDISON DRIVE **INSTALLATION COORDINATION: ARRANGE BUILDING** MATERIALS & SERVICES, SUCH AS BUT NOT LIMITED TO PIQUA, OHIO 45653 DUCTWORK, PIPING, CONDUIT, CABLE TRAYS, & ETC. FOR UNRESTRICTED ACCESS TO MAINTENANCE. SERVICE, & REPLACEMENT ACCESS POINTS, SUCH AS BUT NOT LIMITED TO ACCESS PANELS, COILS, VALVES, DAMPERS, CONTROL DEVICES, ETC. PENETRATION COMPLIANCE: PENETRATION SHALL BE OMPLIANT WITH ASHRAE & SMACNA STANDARDS, & STATE & LOCAL CODES HAVING JURISDICTIONS. PENETRATIONS THROUGH RATED ASSEMBLY WITH EQUIVALENT ASSEMBLY RATING. PROTECTION OF MATERIALS: PROTECT EXISTING **BUILDING MATERIALS & REPAIR DAMAGE RESULTING** FROM WORK DESCRIBED BY THIS CONTRACT. COORDINATE WORK AFFECTING OTHER TRADES, SUCH AS BUT NOT LIMITED TO DUCT ROUTING, INSTALLATION ELEVATIONS, BUILDING OPENINGS, ETC., WITH RESPECTIVE TRADES FOR A COMPLETE, CONSISTENT & OPTIMUM RESULT. TEMPERATURE CONTROL SYSTEM: INSTALL UNITARY CONTROLS PROVIDED BY EQUIPMENT MANUFACTURER. INSTALL OCCUPANT CONTROL DEVICES AT ADA **EDISON STATE** COMPLIANT 44" ABOVE FINISHED FLOOR. ELECTRONICALLY CONNECT EQUIPMENT TO EXISTING BUILDING TEMPERATURE CONTROL SYSTEM FOR OPERATIONAL SCHEDULING; REFER TO SECTION 23 09

COMMUNITY COLLEGE



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RTU-1: INSTALL MANUFACTURER'S STANDARD CURB:

INSTALL DUCT TRANSITIONS TO DUCT INSTALLATION SIZES SHOWN. REFER TO SECTION 23 73 13 FOR PRODUCT INFORMATION & INSTALLATION REQUIREMENTS. AUTOMATICALLY OPERATE TO SCHEDULE PRESCRIBED THROUGH BUILDING TEMPERATURE CONTROL SYSTEM. COORDINATE WORK WITH OTHER TRADES. RTU-1 COTTONWOOD SCREENING: INSTALL COTTONWOOD SCREEN AT OUTSIDE-AIR INTAKE & CONDENSER COIL INLET(S) TO COMPLETELY COVER OPENINGS. REFER TO SECTION 23 33 00 FOR PRODUCT INFORMATION &

INSTALLATION REQUIREMENTS. RTU-1 ACOUSTIC LINED DUCT CONNECTIONS: SUPPLY- & RETURN-AIR DUCT & FITTINGS SHALL BE LINED PRIOR TO DUCT SILENCER. EXTERNALLY INSULATE DUCT AFTER SILENCERS. REFER TO SECTION 23 31 13 & 23 07 00 FOR PRODUCT INFORMATION & INSTALLATION REQUIREMENTS SUPPLY-AIR BIPOLAR ION GENERATOR: INSTALL BIPOLAR ION GENERATOR AT SUPPLY-AIR MAIN AT SHOWN LOCATION. REFER TO SECTION 23 33 00 FOR PRODUCT INFORMATION & INSTALLATION REQUIREMENTS. AUTOMATICALLY ENGAGE & DISENGAGE GENERATOR WITH ASSOCIATED AIR HANDLER OPERATION VIA 24V (22-GAUGE CIRCUIT. COORDINATE WITH SELECTED EQUIPMENT

MANUFACTURER TO IDENTIFY APPROPRIATE POWER CONNECTION FOR AUTOMATIC OPERATIONAL CONTROL **TEAM ROOM ALTERNATE: INSTALL DUCT CONTINUATION** FOR ALTERNATE, INSTALL THERMALLY ACTUATED DIFFUSERS, TYPE T, WITH ALTERNATE. SET UP THERMAI DIFFUSERS FOR THE MINIM/MAXIMUM AIRFLOW OF 400/800 CFM WITH A HEATING SETPOINT OF 70-DEGREES & COOLING SETPOINT OF 72-DEGREES. BALANCE THERMAL DIFFUSER MAXIMUM AIRFLOW WITH A DUCT PRESSURE OF 0.25" W.C. REFER TO SECTIONS 23 37 13 & 23 73 13 FOR ADDITIONAL SYSTEM OPERATIONAL INFORMATION. F-1: INSTALL MANUFACTURER'S STANDARD CURB; INSTALL LINED DUCT SLEEVE THROUGH ROOF DECK FOR CONNECTION TO DUCT SILENCER, DS-3, BELOW ROOF DECK. REFER TO SECTION 23 34 23 FOR PRODUCT INFORMATION & INSTALLATION REQUIREMENTS. AUTOMATICALLY OPERATE TO SCHEDULE AS PRESCRIBED

COORDINATE WORK WITH OTHER TRADES. -1 SHOWER DUCT: DUCT DEDICATED FOR SHOWER ETS SHALL BE CONSTRUCTED OF STANDARD GAUGE ALUMINUM OR STAINLESS STEEL. TRANSITION TO STANDARD GAUGE GALVANIZED STEEL DUCT ONCE MIXED AIR CONDITION IS PRESENT. F-2: INSTALL FAN WITH MANUFACTURER PROVIDED HANGER VIBRATION ISOLATORS. FAN SHALL CIRCULATE AIR FROM COMMONS 102B INTO VESTIBULE 101.

AUTOMATICALLY OPERATE TO SCHEDULE AS PRESCRIBED THROUGH BUILDING TEMPERATURE CONTROL SYSTEM. COORDINATE WORK WITH OTHER TRADES. F-3: INSTALL FAN WITH MANUFACTURER PROVIDED HANGER VIBRATION ISOLATORS. FAN SHALL MAINTAIN PRESSURE TO THERMAL DIFFUSERS AT 0.15" W.C. DURING SINGLE-ZONE VAV OPERATION OF RTU-1 AUTOMATICALLY OPERATE TO RTU-1 SCHEDULE AS PRESCRIBED THROUGH BUILDING TEMPERATURE CONTROL SYSTEM. COORDINATE WORK WITH OTHER TRADES.

CUH: INSTALL CABINET UNIT HEATER FLUSH WITH CEILING REFER TO SECTION 23 82 39 FOR PRODUCT INFORMATION & INSTALLATION REQUIREMENTS. DRYER EXHAUST: INSTALL DRYER EXHAUST DUCT WITH GOOSENECK OUTLET 24" ABOVE FINISHED ROOF ELEVATION. CONSTRUCT DUCT IN COMPLIANCE OF BUILDING CODES OF AUTHORITY.

CONSTRUCTION DOCUMENTS



PROJECT MANAGER: RW DRAWN BY: DDP PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

> DESCRIPTION DATE

NOTES

CABINET UNIT HEATER SCHEDULE

500 800 60 W 460/60/3 60° 88° 1 4.5 9 15 EXPOSED

ELECTRICAL TAG CFM RPM MOTOR SERVICE EAT LAT STAGES KW MCA MOP

1. REFER TO SECTION 23 82 39 FOR ADDITIONAL DETAILS & SECTION 230993 FOR CONTROL REQUIREMENTS.

DESIGN CAPACITY

VERIFICATION NOTE CONTRACTOR SHALL CONTINUALLY FIELD VERIFY DIMENSIONS, CONNECTIONS, & CLEARANCES AS THESE CONDITIONS BECOME PRESENT AND AVAILABLE DURING THE CONSTRUCTION PROCESS. DO NOT ASSUME ACCESS WAS AVAILABLE DURING THE DESIGN PROCESS; COMMENCEMENT OF WORK CONSTITUTES

ACCEPTANCE OF CONDITIONS. IF QUESTIONABLE OR UNCLEAR CONDITIONS ARE ENCOUNTERED, CONTACT PROJECT ARCHITECT/ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.

HVAC PLAN

AMP FRAME ABOVE FINISHED COUNTERTOP ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AIR HANDLER UNIT AMPERE INTERRUPTING CAPACITY ADDRESSABLE INTERFACE DEVICE AS REQUIRED AMP TRIP AUTOMATIC TRANSFER SWITCH ATS AMERICAN WIRE GAUGE A/V AUDIO VISUAL

CMF

CUH

DED

DISTR

DPST

EOL

ETR

EWC

FBO

FCU

FDN

FRE

HTP

LSIG

MATV

MBJ

MCC

MDP

M.H.

MOD

MSB

MSC

MTD

MTG

MTS

MV

MZU

NFS

NO

NRTL

NTS

PUH

SPL

SPST

STP STL

SUSP

MOCP

MC/ER

AIR CONDITIONING UNIT

BOLTED-PRESSURE CONTACT SWITCH CONDUIT (GENERIC TERM FOR RACEWAY, PROVIDE AS SPECIFIED) CANDELA CLG CEILING MOUNTED CAM CAMERA LIGHTING CONTACTOR CL

COMBINATION MOTOR FUSIBLE STARTER

DEMO TABLE DIRECT CURRENT DEDICATED DEVICE ON INDIVIDUAL **BRANCH CIRCUIT** DUAL FACE DIAMETER DISTRIBUTION DOUBLE POLE SINGLE THROW DOUBLE POLE DOUBLE THROW DUST-TIGHT

CABINET UNIT HEATER

EQUIPMENT BONDING JUMPER ON LOAD SIDE OF AN OVER-CURRENT DEVICE ELECTRICAL CONTRACTOR WIRED ON EMERGENCY CIRCUIT END OF LINE EXISTING TO REMAIN FI FCTRIC WATER COOLER **EXISTING**

FUSED AT

HAND-OFF-AUTO

FIRE ALARM FURNISHED BY OTHERS FAN COIL UNIT FOUNDATION FAN POWERED BOX FIBERGLASS REINFORCED EPOXY CONDUIT FLOW SWITCH

HEAT PUMP KITCHEN EQUIPMENT CONTRACTOR KNOCK-OUT

LIQUIDTIGHT FLEXIBLE NONMETALLIC

LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT

LIMIT SWITCH LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT TRIP ADJUSTMENTS TO BE PROVIDED ON A CIRCUIT BREAKER LOW VOLTAGE MASTER ANTENNA TV MAIN BONDING JUMPER MAIN CROSS-CONNECT/EQUIPMENT ROOM MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER

MAIN DISTRIBUTION PANEL MANHOLE (ON SITE PLAN) MOUNTING HEIGHT (ON PLAN), ALL MOUNTING HEIGHTS FOR DEVICE BOXES ARE FROM FINISHED FLOOR TO BOTTOM OF BOX, UNO. VERIFY **OUTLET LOCATIONS WITH OTHER TRADES BEFORE** MAIN LUGS ONLY MOTOR OPERATED DISCONNECT SWITCH MAXIMUM OVER-CURRENT PROTECTION MAIN SWITCHBOARD

MOTOR STARTER CENTER MOUNTED MOUNTING MANUAL TRANSFER SWITCH MEDIUM VOLTAGE MULTI-ZONE HVAC UNIT GROUNDED CIRCUIT CONDUCTOR (NEUTRAL)

INDICATES MOUNTING HEIGHT (N) TO

BOTTOM OF DEVICE FROM FINISH FLOOR, UNO NOT APPLICABLE NORMALLY CLOSED NONFUSIBLE SWITCH NOT IN CONTRACT NIGHT LIGHT NONMETALLIC SHEATHED CABLE NORMALLY OPEN NATIONALLY RECOGNIZED TESTING LAB NOT TO SCALE

OVER-CURRENT PROTECTIVE DEVICE PUBLIC ADDRESS SYSTEM PULL BOX PNEUMATIC/ELECTRIC PROPELLER HEATER POST INDICATING VALVE PROPELLER UNIT HEATER

ON CENTER

RFI FASE

RETURN AIR FAN RAIN-TIGHT REDUCE VOLTAGE STARTER SURFACE SYSTEM BONDING JUMPER SOLID NEUTRAL SPLICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW

STAINLESS STEEL SUPPLY-SIDE BONDING JUMPER SHUNT TRIP SHIELDED TWISTED PAIR CARBON STEEL SUSPENDED SWITCH SWITCHBOARD TELEPHONE CABINET TEMPERATURE CONTROL PANEL TEL/DATA TELEPHONE/DATA TELEPHONE

> TERMINAL (S TELECOMMUNICATIONS GROUNDING TELECOMMUNICATIONS MAIN GROUNDING TELEPHONE TERMINATION BOARD UTILITY EXHAUST FAN UNDERGROUND UNLESS NOTED OTHERWISE UNIT VENTILATOR

VANDAL GUARD VERIFY IN FIELD VAPOR-TIGHT WIRE GUARD WATTHOUR WALL MOUNTED WEATHERPROOF WATER-TIGHT

	POWER SYMBOLS	
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	BOTTOM
	CONDUIT CONCEALED IN OR BELOW FLOOR, OR UNDER GROUND	
⊕ X 1AL1-1	20 AMP, 125 VOLT, NEMA 5-20R DUPLEX RECEPTACLE WITH COMMON COVER PLATE MOUNTED VERTICALLY +16" TO BOTTOM. LETTER(S) IN FRONT INDICATES LOAD TYPE, SEE BELOW. SINGLE LINE INDICATES HORIZONTAL MOUNTING, DOUBLE LINE INDICATE QUAD, DARK CENTER INDICATES ABOVE COUNTERTOP MOUNTING (44") NEMA 5-20R, UNO. CIRCUIT NUMBER (e.g. "1AL1-1") ADJACENT TO THE SYMBOL ON PLANS INDICATES PANELBOARD/CIRCUIT NUMBER SERVING RECEPTACLE, UNO. B RECEPTACLE WITH 20 AMP SINGLE POLE SWITCH IN 2 GANG BOX AND COMMON COVER PLATE	
₩ ₩	C CASEWORK, COORDINATE WITH ARCHITECTURAL CO COPY MACHINE CM COFFEE MAKER	
 	E RED RECEPTACLE AND STAINLESS COVER PLATE, CONNECT TO BACKUP POWER GF GROUND FAULT CIRCUIT INTERRUPTING TYPE I ISOLATED GROUND M MONITOR - 60" AFF MW MICROWAVE R REFRIGERATOR - 48" AFF TL TWIST LOCK	
	TR TAMPER RESISTANT U DUPLEX RECEPTACLE WITH (2) USB PORTS UR UNDER COUNTER REFRIGERATOR V VENDING MACHINE, FEED FROM 30 MA GFCI BREAKER IN PANELBOARD. VP WALL MOUNTED VIDEO PROJECTOR, 96" AFF UNO WB WHITEBOARD WC ELECTRIC WATER COOLER. FEED FROM 5 MA GFCI BREAKER IN PANELBOARD. WF WASHFOUNTAIN/LAVATORY. CONNECT TO NEAREST THROUGH FEED GFCI RECEPTACLE. WM WASHING MACHINE, FEED FROM 30 MA GFCI BREAKER IN PANELBOARD.	
θ-	WP WEATHER RESISTANT GFCI WITH IN-USE TYPE WEATHERPROOF COVER HINGED AT TOP X EXPLOSION PROOF 20 AMP SINGLE RECEPTACLE, NEMA 5-20R	16"
	SINGLE STRAIGHT BLADE RECEPTACLE, 30A, 125 VOLT, NEMA 5-30R	16"
⊖ -c	15 AMP SINGLE RECEPTACLE, SEMI-RECESSED WALL MOUNTED WITH CLOCK HANGER, NEMA 5-15R	76"
\bigcirc	20 AMP DUPLEX RECEPTACLE FLUSH CEILING MOUNTED , NEMA 5-20R	CLG
H⊒∪	SINGLE FLUSH BOX WITH FOUR USB CHARGING PORTS, WITH DECORA STYLE COVER PLATE; MOUNTED ABOVE COUNTERTOP HEIGHT, UNO	44"
0	SPECIAL POWER RECEPTACLE, AMPS, VOLTS AND NEMA CONFIGURATION AS DEFINED ON PLANS BY CODED NOTE	16"
•	SINGLE STRAIGHT BLADE, SPECIAL RECEPTACLE, 20A, 125/250 VOLT, 3P, 4W, NEMA 14-20R	16"
₽ W	SINGLE STRAIGHT BLADE, WELDING RECEPTACLE, 60A, 250 VOLT, 3P, 3W, NEMA 15-60R	44"
₽ R	SINGLE STRAIGHT BLADE, RANGE RECEPTACLE, 50A, 125/250 VOLT, 3P, 4W, NEMA 14-50R	8"
● D	SINGLE STRAIGHT BLADE, GROUNDED DRYER RECEPTACLE, 30A, 125/250 VOLT, 3P, 4W, NEMA 14-30R	32"
● T	30 AMP, 120 VOLT, SINGLE TWIST LOCK RECEPTACLE, UNO, NEMA L5-30R	16"
F	20 AMP DUPLEX RECEPTACLE IN FLUSH FLOOR MOUNTED BOX,NEMA 5-20R. USE A CAST BOX AT GRADE LEVEL, USE A STAMPED STEEL BOX FOR UPPER FLOORS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
Т	20 AMP DUPLEX RECEPTACLE IN FIRE RATED POKE-THRU FLOOR DEVICE, NEMA 5-20R. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
Р	20 AMP DUPLEX RECEPTACLE IN PEDESTAL MOUNTED ABOVE FLOOR SERVICE FITTING, NEMA 5-20R. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	HIGH CAPACITY FLOOR BOX WITH 4 DUPLEX RECEPTACLES, NEMA 5-20R, UNO FOR POWER AND DATA. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	COMMUNICATIONS/POWER POLE PRE-WIRED WITH 2 DUPLEX RECEPTACLES, WITH TWO J BOX ABOVE CEILING. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
-010-	TWO 20 AMP DUPLEX RECEPTACLES IN BOX WITH COVER PLATE, PENDANT MOUNTED WITH 3/C, SJO CORD AND STRAIN RELIEF GRIPS.	84"
ΦΦ	2 CHANNEL MULTIOUTLET SURFACE RACEWAY ASSEMBLY WITH DUPLEX RECEPTACLES AND DATA OUTLETS. SEE TECHNOLOGY DRAWINGS. QUANTITY AS	_

FIRE	AL	ARN	ΛSY	/MB	OL	_S

POST INDICATOR VALVE TAMPER SWITCH

SYMBOL	DESCRIPTION	МН	LEGENI NOTE
AID	ADDRESSABLE INTERFACE DEVICE	-	
\bigcirc	HEAT DETECTOR, 190 DEGREES F FIXED TEMPERATURE (UNO), CEILING MOUNTED	CLG	
§D D	ROUND INDICATES CEILING MOUNTED, SQUARE INDICATES DUCT MOUNTED, PHOTOELECTRIC SMOKE DETECTOR		
FAA	FIRE ALARM ANNUNCIATION PANEL	56"	
FAPS	FIRE ALARM POWER SUPPLY	-	
FAP	FIRE ALARM CONTROL PANEL	-	S
F <u>F</u>	AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE (HORN/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	Т
<u>s</u> <u>s</u>	VOICE/ALARM COMMUNICATION AUDIBLE AND VISIBLE NOTIFICATION DEVICE (SPEAKER/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	Т
<u> </u>	VISIBLE NOTIFICATION APPLIANCE (STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	Т
(L) (L)	VOICE/ALARM COMMUNICATIONS LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG	
F	MANUAL FIRE ALARM PULL STATION, AND AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE ABOVE (HORN/STROBE), WALL MOUNTED	44"/80"	Т
F	MANUAL FIRE ALARM PULL STATION, WALL MOUNTED	44"	
S S	VOICE/ALARM COMMUNICATIONS HORN TYPE LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG	
T⊥	SMOKE DETECTOR BEAM TRANSMITTER	-	
R↓	SMOKE DETECTOR BEAM RECEIVER	-	
SD	SMOKE DAMPER ACTUATOR AND ASSOCIATED SMOKE DETECTOR, TYPE PER PLANS	-	
FS	WATER FLOW SWITCH CONNECTION	-	D
SV	SUPERVISORY VALVE TAMPER SWITCH CONNECTION	-	D
FH	SURFACE FIRE ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR	
SH	SURFACE SECURITY ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR	
S	ELECTRONIC RELEASE DOOR CLOSER	-	
В	FIRE ALARM BELL, WALL MOUNTED, WEATHERPROOF WHERE EXTERIOR MOUNTED	96"	
КН	MICRO SWITCH IN KITCHEN HOOD FOR FIRE SUPPRESSION SYSTEM. SUPPLIED BY OTHERS, WIRED BY EC.	HOOD	

	POWER SYMBOLS	
SYMBOL	DESCRIPTION	ľ
	DISTRIBUTION PANEL, SEE ONE LINE DIAGRAM	
	SURFACE CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	
	FLUSH MOUNTED CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	
M	UTILITY METER	
H•	PUSH BUTTON STATION, TYPE INDICATED	
H••	PUSH BUTTON STATION, ON/OFF	
H • • •	PUSH BUTTON STATION, UP/DOWN/STOP	
<u> </u>	RECESSED ADA PUSH BUTTON FOR AUTOMATIC DOOR OPERATOR, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	4
<u> </u>	RECESSED ADA DOUBLE PUSH BUTTON FOR DUAL AUTOMATIC DOOR OPERATORS, FURNISHED BY OTHERS,	4
	RED MUSHROOM ABORT SWITCH, WALL MOUNTED	
<u> </u>		
PC	PHOTOCELL AIMED NORTH	
<u>(D)</u>	RECESSED WALL BOX FOR HAIR DRYER. CIRCUIT WITH 2#10, #10G IN 3/4" C TO PANEL INDICATED	
H	RECESSED WALL BOX FOR HAND DRYER. CIRCUIT WITH 2#10, #10G IN 3/4" C TO PANEL INDICATED	
В	CIRCUIT BREAKER DISCONNECT SWITCH, 30A - 3 POLE, UNO	,
	NON-FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNOWP SUFFIX DESIGNATES NEMA 3R ENCLOSUREWP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.	
F -100A-3P	FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNOWP SUFFIX DESIGNATES NEMA 3R ENCLOSUREWP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.	4
\boxtimes	MAGNETIC STARTER, 30 AMP - 3 POLE, NEMA SIZE 1, UNO WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	4
	COMBINATION MAGNETIC MOTOR STARTER, WITH 30 AMP - 3 POLE CIRCUIT BREAKER DISCONNECT SWITCH, NEMA SIZE 1, UNO WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	,
	COMBINATION MAGNETIC MOTOR STARTER, WITH 30 AMP - 3 POLE MOTOR CIRCUIT PROTECTOR (MCP) DISCONNECT SWITCH, NEMA SIZE 1, UNO WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	4
	COMBINATION MAGNETIC MOTOR STARTER, WITH 30 AMP - 3 POLE FUSED DISCONNECT SWITCH, NEMA SIZE 1, UNO, WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	4
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION AND PILOT LIGHT, UNO.	
	FLUSH MOUNTED IN FINISH SPACES. MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION, UNO.	
∙ M	FLUSH MOUNTED IN FINISH SPACES.	
 F	MANUAL MOTOR STARTER, NO OVERLOADS. FLUSH MOUNTED IN FINISH SPACES.	4
-∽ T	SPRING WOUND TIMER, HP RATED CONTROL SWITCH FOR DEVICES SUCH AS MOTORIZED SHADES, SOLAR LIGHT TUBES,	4
-∽ -C	PROJECTION SCREENS, ETC. FURNISHED BY OTHERS, INSTALLED FLUSH MOUNTED WITH COVER PLATE AND WIRED BY DIV. 26	4
С	ELECTRICALLY HELD CONTACTOR WITH H-O-A SWITCH, 30A - 3P, UNO. REFER TO SPECIFICATION FOR REQUIREMENTS.	4
c	COMBINATION ELECTRICALLY HELD CONTACTOR, WITH H-O-A SWITCH AND 30 AMP - 3P CIRCUIT BREAKER DISCONNECT SWITCH, UNO. REFER TO SPECIFICATION FOR REQUIREMENTS.	4
ТС	DIGITAL TIME CLOCK SWITCH	(
VFC	VARIABLE FREQUENCY CONTROLLER, FURNISHED BY DIV. 23 CONTRACTOR, INSTALLED BY DIV. 26 CONTRACTOR, UNO. COORDINATE FINAL MOUNTING HEIGHT.	(
ATS	AUTOMATIC TRANSFER SWITCH, REFER TO SINGLE LINE DIAGRAM. COORDINATE FINAL MOUNTING HEIGHT. REFER TO SPECIFICATIONS FOR REQUIREMENTS	
R	RELAY	
A	AQUASTAT	
SV	SOLENOID VALVE	
	THERMOSTAT	
_		
6	MOTOR	
У	MOTOR DRY TYPE TRANSFORMER	
	DRY TYPE TRANSFORMER	
SPD	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS.	
	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL	
SPD GAP	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE	
SPD GAP	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL	
SPD GAP	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE	· ·
SPD GAP J J	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE	C
SPD GAP J J	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE REFRIGERANT DETECTION AND ALARM: REFRIGERANT MONITOR CONTROL PANEL	
SPD GAP J J	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE	C
SPD GAP J J	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE REFRIGERANT DETECTION AND ALARM: REFRIGERANT MONITOR CONTROL PANEL	C
SPD GAP J J	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE REFRIGERANT DETECTION AND ALARM: REFRIGERANT MONITOR CONTROL PANEL REFRIGERANT DETECTION AND ALARM: SENSOR	C
SPD GAP J J J A RAP RAP	DRY TYPE TRANSFORMER SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS. GENERATOR ANNUNCIATOR PANEL UTILITY POLE JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE REFRIGERANT DETECTION AND ALARM: REFRIGERANT MONITOR CONTROL PANEL REFRIGERANT DETECTION AND ALARM: SENSOR REFRIGERANT DETECTION AND ALARM: NOTIFICATION APPLIANCE	C

ELECTRICAL GENERAL NOTES

THE TERM "PROVIDE" INDICATES CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE AND OPERABLE SYSTEM. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL PLANS, CASEWORK, WINDOWS, WALL FINISHES, EQUIPMENT, AND OTHER TRADES PRIOR TO ROUGH IN. DEVICES ARE INTENDED TO BE ACCESSIBLE, DO NOT INSTALL BEHIND CASEWORK, DOORS OR EQUIPMENT UNLESS INDICATED ON PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.

WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE AND NATIONAL CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 (NATIONAL ELECTRIC CODE), NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODE, ETC. CONFLICTS BETWEEN THE APPLICABLE CODES, STANDARDS, AND THE PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK.

REFER TO E8.1 FOR LUMINAIRE SCHEDULE. REFER TO E8 SERIES FOR PANEL SCHEDULES.

ASSOCIATED WITH THE WORK IN QUESTION.

FEEDER AND BRANCH CIRCUIT.

CLG

LIGHTING SYMBOLS

OCCUPANCY SENSOR - CEILING MOUNTED (UNO), HIGH BAY INFRARED, 360 DEGREE PATTERN.

36' DIA. COVERAGE PATTERN (MIN.) AT 20' MOUNTING HEIGHT. PROVIDE WITH RELAY OPTION.

OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, 360 DEGREE PATTERN, 2000

OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, 360 DEGREE PATTERN, 2000

OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, DIRECTIONAL/180 DEGREE

OCCUPANCY SENSOR - CEILING MOUNTED, INFRARED, DIRECTIONAL/180 DEGREE

OCCUPANCY SENSOR - WALL MOUNTED, DUAL TECHNOLOGY, 180 DEGREE PATTERN,

OCCUPANCY SENSOR - WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE

2 OCCUPANCY SENSOR - DUAL LEVEL WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE SWITCH

OCCUPANCY SENSOR - WALL SWITCH TYPE, INFRARED WITH MANUAL OVERRIDE SWITCH

ம-к КЕҮ OPERATED SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO

↔MK | MOMENTARY CONTACT SNAP KEYED SINGLE POLE SWITCH, DOUBLE THROW, CENTER-OFF

ωD WALL BOX DIMMER 277V, 1200 WATT MINIMUM, FLUSH, UNO. PROVIDE WATTAGE SIZE TO

LIGHTING CONTACTOR, MECHANICALLY HELD, 30A - 3P WITH H-O-A SWITCH, UNO

DOWNLIGHT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED

WALL MOUNTED EXIT SIGN, DIRECTIONAL ARROWS AS SHOWN

EMERGENCY LIGHTING UNIT WITH 2 HEADS AND BATTERY

WALL-BRACKET LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED

RECESSED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED

RECESSED LUMINAIRE, APPROXIMATE SIZE INDICATED. ("NL", INDICATES NIGHT LIGHT FIXTURES)

SURFACE OR PENDANT MOUNTED LUMINAIRE, APPROXIMATE SIZE INDICATED

PENDANT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED

SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED

WALL-BRACKET LUMINAIRE, APPROXIMATE SIZE INDICATED

PENDANT LUMINAIRE, APPROXIMATE SIZE INDICATED

AIMABLE LUMINAIRE, CARROT INDICATING DIRECTION OF AIMING

CEILING MOUNTED EXIT SIGN, SHADED PORTION(S) INDICATES SINGLE OR DOUBLE FACE

SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO TYPICAL, SUBSCRIPT a, b, c INDICATES WHICH

COMBINATION LIGHTING CONTACTOR, MECHANICALLY HELD, WITH H-O-A SWITCH AND 30A - 3P CIRCUIT BREAKER, UNO

↔MC | MOMENTARY CONTACT SNAP SINGLE POLE SWITCH, DOUBLE THROW, CENTER-OFF

9-3 SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO

ωL SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO WITH LIGHTED HANDLE

LUMINAIRE THAT WILL BE CONTROLLED VIA SWITCH LEG

⊕P | SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO WITH PILOT LIGHT

DOWNLIGHT LUMINAIRE, APPROXIMATE SIZE INDICATED

EXCEED CIRCUIT LOAD

BREAKER, UNO

WALL SCONCE LUMINAIRE

ARM MOUNTED AREA LUMINAIRE

POLE TOP AREA LUMINAIRE

TRACK HEAD LUMINAIRE

LRP LIGHTING RELAY PANEL

PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CFII ING

PATTERN, 1200 S.F. COVERAGE (MIN.), PROVIDE WITH RELAY OPTION, PROVIDE WITH CEILING

MOUNTING BRACKET ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "A" PORTION

OCCUPANCY SENSOR - WALL MOUNTED, INFRARED, 180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.).

MOUNTING BRACKET ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "A" PORTION

S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "A" PORTION OF SYMBOL INDICATES AIMING

S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "A" PORTION OF SYMBOL INDICATES AIMING

PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.

OF ULTRASONIC SENSORS. PROVIDE WITH INTEGRAL DAYLIGHT SENSOR.

WITH RELAY OPTION. "A" PORTION OF SYMBOL INDICATES AIMING

1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION.

PROVIDE WITH RELAY OPTION.

OF ULTRASONIC SENSORS.

OF SYMBOL INDICATES AIMING.

OF SYMBOL INDICATES AIMING.

PROVIDE WITH RELAY OPTION.

DAYLIGHT SENSOR

OCCUPANCY SENSOR - CEILING MOUNTED, ULTRASONIC AND INFRARED SENSOR FOR CORRIDOR & HALLWAY

APPLICATIONS, 56'x16' (MIN.) RECTANGULAR SHAPED COVERAGE PATTERN. PROVIDE WITH RELAY OPTION. "A"

OCCUPANCY SENSOR - CEILING MOUNTED, INFRARED, 360 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.).

OCCUPANCY SENSOR - CEILING MOUNTED, ULTRASONIC, 360 DEGREE PATTERN, 2000 S.F. COVERAGE. PROVIDE

SYMBOL

E3 SERIES DRAWINGS ARE FOR TECHNOLOGY ROUGH-INS REFER TO TECHNOLOGY PLANS, T1 SERIES FOR COMMUNICATIONS, SECURITY AND ACCESS CONTRACTOR SHALL FOLLOW SEISMIC RESTRANT AND DESIGN REQUIREMENTS

CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES WITH ALL AMENDMENTS AS ADOPTED. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS

WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN 12. INITIATING WORK CONSTITUTES CONTRACTOR ACCEPTANCE OF THE EXISTING CONDITIONS

CONTRACTOR SHALL CONTACT UTILITIES AND VERIFY UTILITY REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION. CONFLICTS BETWEEN UTILITY REQUIREMENTS AND THE PLANS OR SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE UTILITY COMPANY TO REVIEW REQUIREMENTS. INCOMING SERVICE CONDUITS AND SUBSTRUCTURES SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS. THESE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION,

JUNCTION BOX, WIRE, AND CONDUIT, ETC. THE EXACT LOCATIONS AND ARRANGEMENT OF PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. ITEMS NOT INDICATED ON DRAWINGS REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED SHALL BE FURNISHED AND INSTALLED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S VENDORS, OTHER TRADES, AND THEIR DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN APPOINTMENT TO VISIT THE SITE. AN INSULATED GROUND CONDUCTOR SIZED PER NEC SHALL BE PROVIDED WITH EACH

PROVIDE A DEDICATED NEUTRAL FOR EACH LINE TO NEUTRAL CIRCUIT. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON PLANS. MINIMUM WIRE SIZE IS #12 AWG. SEE SPECIFICATIONS FOR MINIMUM CONDUIT SIZE. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER FLOOR SLAB WHERE SHOWN ON DRAWINGS. IN AREAS WITH NO CEILING, RUN EXPOSED CONDUIT AS HIGH AS POSSIBLE AND PARALLEL TO NEARBY SURFACES OR EXISTING RACEWAYS. CONDUIT SHALL NOT BE INSTALLED IN FLOOR SLAB UNLESS SPECIFICALLY INDICATED ON PLANS AND WHERE APPROVED BY STRUCTURAL ENGINEER. DO NOT INSTALL MC CABLE IN EXPOSED LOCATIONS. CONTRACTOR SHALL PROVIDE RIGID METAL SLEEVES TO FACILITATE PATHWAYS THROUGH

FULL HEIGHT WALLS FOR ELECTRICAL AND TELECOMMUNICATION WIRING. PROVIDE TEMPORARY OR PERMANENT END CAPS FOR STUBBED CONDUITS, PROVIDE INSULATED THROAT BUSHINGS FOR CONDUITS INTENDED TO REMAIN OPEN ENDED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED ASSEMBLIES AND SMOKE BARRIERS. SEAL PENETRATIONS IN ACCORDANCE WITH UL AND PROJECT SPECIFICATIONS. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO BOTTOM OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.

PROVIDE SOUND INSULATING PUTTY AROUND DEVICES INSTALLED ON OPPOSITE SIDES OF A WALL IN THE SAME VERTICAL CHANNEL. IF DEVICES ARE LOCATED AT LEAST 8" HORIZONTALLY APART NO SOUND INSULATING PUTTY IS REQUIRED. COORDINATE CEILING MOUNTED DEVICES WITH MECHANICAL AND ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE

THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. CONDUITS DESIGNATED AS EMPTY OR FUTURE SHALL BE PROVIDED WITH A #12 PULL LINE. OPEN ENDED CONDUITS SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS. FOR LUMINAIRES, CIRCUIT NUMBER IS SHOWN ONLY ONCE IN EVERY ROOM. PROVIDE CIRCUIT INDICATED TO EVERY LIGHT FIXTURE INDICATED IN SAME ROOM UNLESS OTHERWISE INDICATED. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES

ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL. ELECTRICAL PANELS INCLUDING BUT NOT LIMITED TO FIRE ALARM CONTROL PANELS, LIGHTING CONTROL PANELS, POWER DISTRIBUTION WILL HAVE A MAX DEVICE HEIGHT OF

PROVIDE GROUNDING TYPE EXPANSION FITTINGS OR OTHER APPROVED METHODS TO ALLOW FOR EXPANSION, CONTRACTION, AND DEFLECTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.

PROVIDE SEPARATE RACEWAY FOR EMERGENCY SYSTEM WIRING PER NEC ARTICLE 700. MINIMUM WIRE SIZE #10AWG. ALL CONDUITS SHALL INCLUDE AN INSULATED GROUND WIRE, SIZED PER N.E.C. AUTODOORS AND WHEELCHAIR LIFT PROVIDED AND INSTALLED BY OTHERS. PROVIDE CONDUIT AND BOX ROUGH-INS FOR MOTORS AND PUSHBUTTONS. MAKE FINAL POWER CONNECTIONS. ALL CONTROL WIRING BY OTHERS. MASONRY LOAD-BEARING WALLS AND MASONRY SHEAR WALLS: DO NOT PENETRATE CMU WALLS INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS

UNLESS NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CMU BOND BEAMS OR LINTELS. DO NOT CUT ANY VERTICAL REINFORCING IN CMU WALLS. OBTAIN PRIOR APPROVAL FROM ENGINEER BEFORE PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE. CONCRETE BEARING WALLS AND BEAMS: DO NOT PENETRATE CONCRETE WALLS INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS

NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CONCRETE BEAMS, GIRDERS, OR COLUMNS. DO NOT CUT ANY VERTICAL REINFORCING IN CONCRETE WALLS. OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER BEFORE PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE. STEEL FRAMING: DO NOT CUT OR CORE THROUGH ANY STRUCTURAL STEEL BEAMS. GIRDERS, OR COLUMNS UNLESS NOTED OTHERWISE ON PLAN. NOTIFY ENGINEER OF POTENTIAL CONFLICTS BETWEEN FRAMING AND ELECTRICAL WORK.

CONCRETE FLOOR SYSTEMS (APPLIES TO CONCRETE BLDG. OR STEEL WITH CONCRETE DECK, MASONRY W/ CONC, FLOOR); DO NOT CUT HOLES OR CORE THROUGH CONCRETE FLOOR SLAB UNLESS NOTED OTHERWISE ON PLAN OR IN TYPICAL STRUCTURAL DETAILS. PENETRATIONS THROUGH EXISTING SLABS SHALL BE X-RAYED PRIOR TO CORING HOLES. NO EXISTING REINFORCEMENT SHALL BE CUT WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER. PENETRATIONS THROUGH EXISTING BEAMS AND COLUMNS IS NOT PERMITTED.

CONVOCATION CENTER

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EDISON STATE COMMUNITY COLLAGE



<u>ARCHITECT</u>



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ADDITION

KEY PLAN

CONSTRUCTION DOCUMENTS

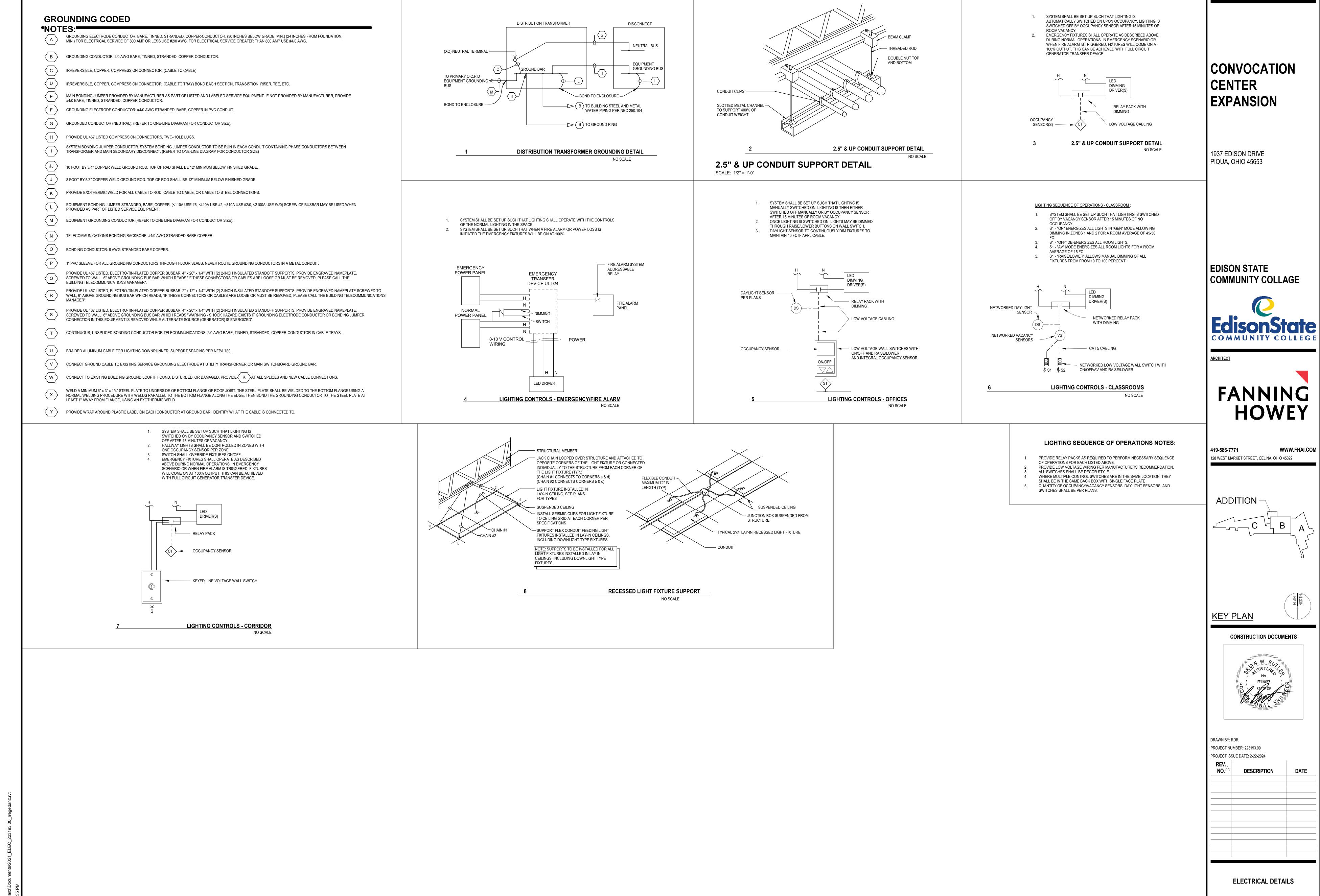


DRAWN BY: RDR PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

REV.

NO. $ riangle$	DESCRIPTION	DATE

ELECTRICAL SYMBOL LEGEND



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GENERAL SITE NOTE

COORDINATE WITH ALL EXISTING AND PROPOSED UNDERGROUND WORK. ADJUST AS NECESSARY.

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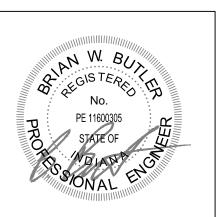


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CONSTRUCTION DOCUMENTS



PROJECT MANAGER: R WIFORD
DRAWN BY: RDR
PROJECT NUMBER: 223193.00
PROJECT ISSUE DATE: 02/22/2024

REV. NO. DESCRIPTION DAT

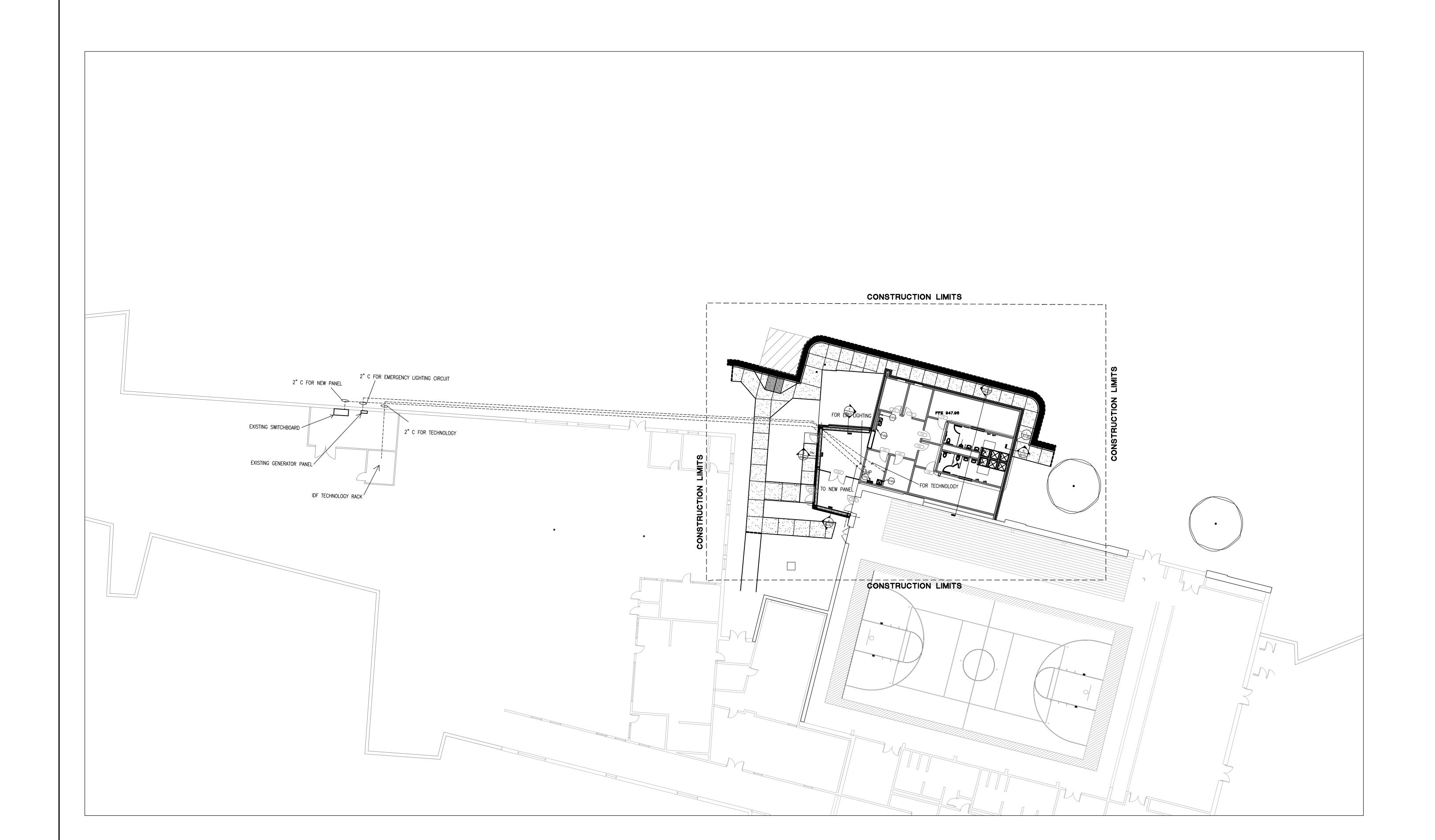
ELECTRICAL SITE PLAN

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

E2.01



ELECTRICAL SITE PLAN

1/16" = 1'-0"

ROOM LEGEND - FIRST FLOOR UNIT A

ROOM NO. | ROOM NAME | AREA (SF

TECHNOLOGY PLAN NOTES

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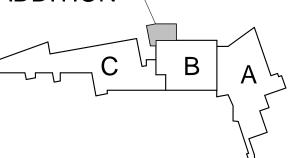


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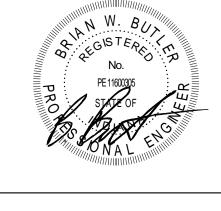
ADDITION —



KEY PLAN

CONSTRUCTION DEVELOPMENT





PROJECT MANAGER: MM

DRAWN BY: CDT

PROJECT NUMBER: 223193.00

PROJECT ISSUE DATE: 2.22.2024

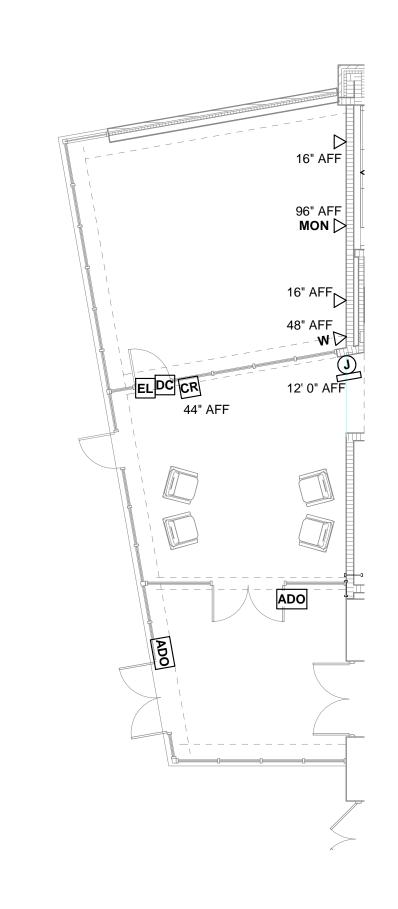
GENERAL NOTE:

ELECTRICAL RECEPTACLES SHOWN ON THE TECHNOLOGY ROUGH-IN DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL POWER DRAWINGS FOR RECEPTACLE ROUGH-IN REQUIREMENTS.

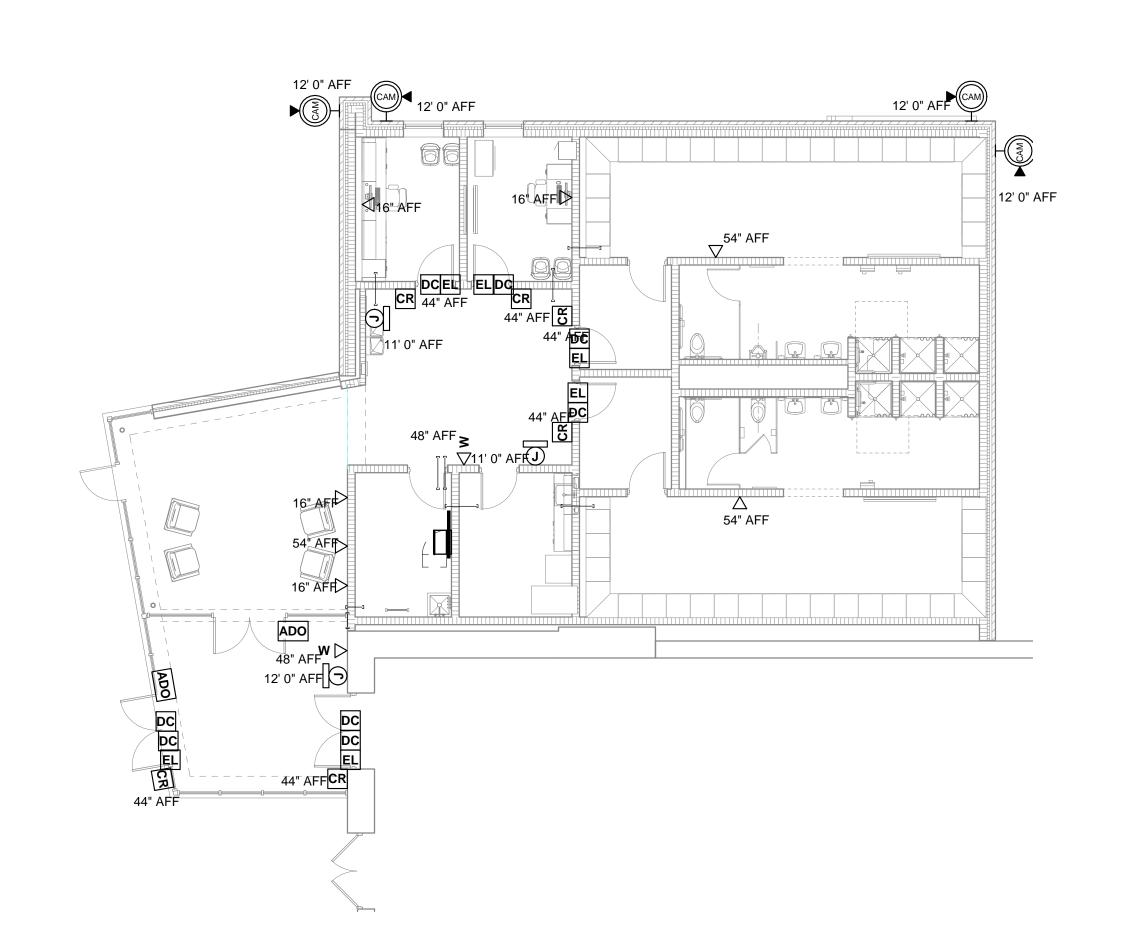
REV. NO.	DESCRIPTION	DATE

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN

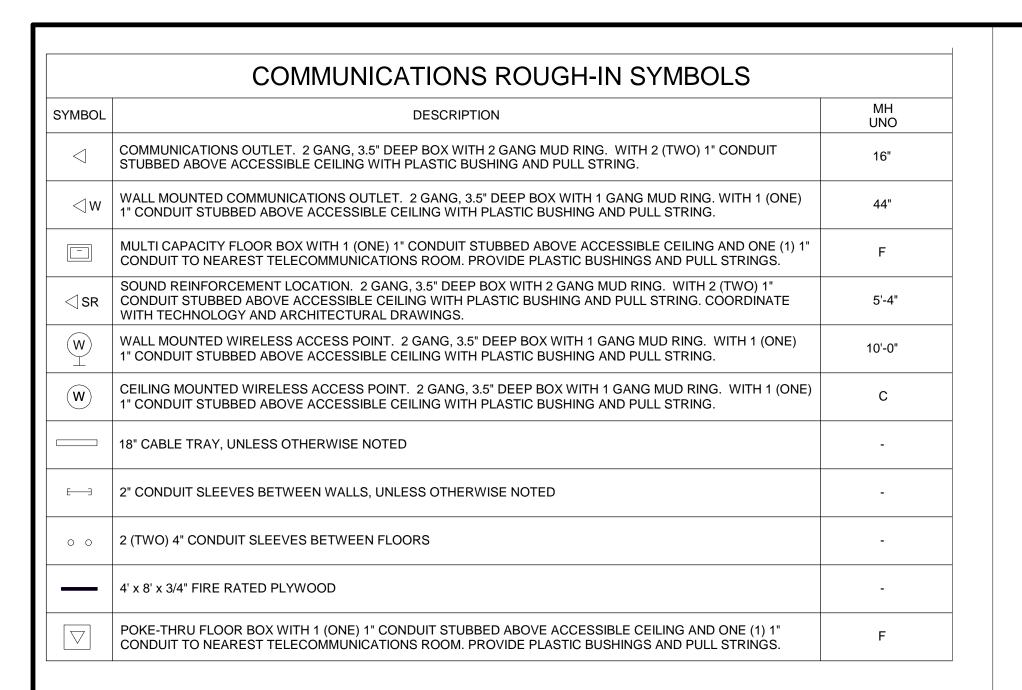
E3.01



FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN ALTERNATE SCALE: 1/8" = 1'-0"



FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN SCALE: 1/8" = 1'-0"

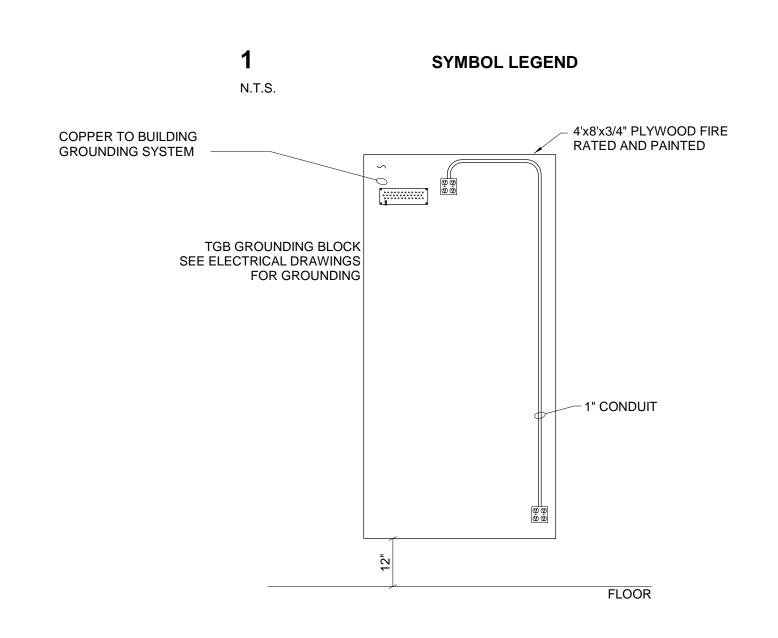


	VIDEO SURVEILLANCE CAMERA ROUGH-IN SYMBOL				
SYMBOL	DESCRIPTION	MH UNO			
CAM	WALL MOUNTED VIDEO SURVEILLANCE CAMERA2 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)	+144"			
HCAM)	WALL MOUNTED VIDEO SURVEILLANCE CAMERAS 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)	+144"			
HCAM	WALL MOUNTED VIDEO SURVEILLANCE CAMERAS 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)	+144"			
⊢(CAM) ■ W	WALL MOUNTED VIDEO SURVEILLANCE CAMERA 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)	+144"			
WF (CAM)	WALL MOUNTED WEATHERPROOF VIDEO SURVEILLANCE CAMERA, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12"-16"	+144"			

OF CORNER WHEN APPLICABLE)

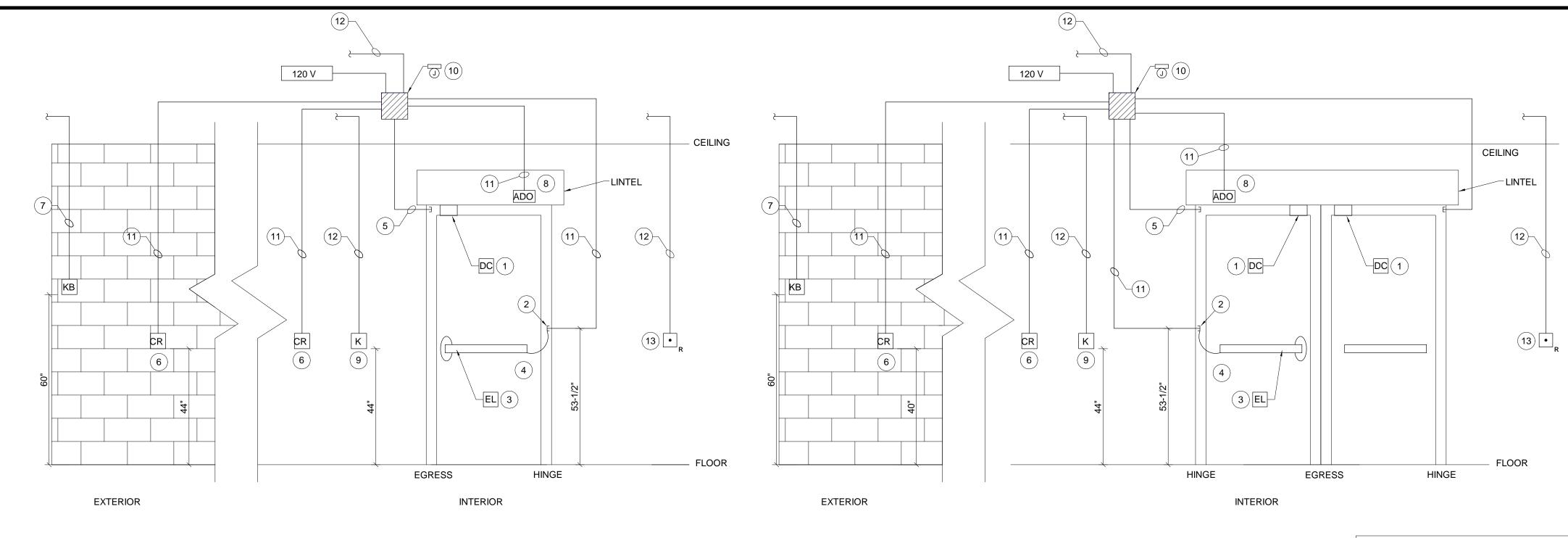
ACCESS CONTROL ROUGH-IN SYMBOLS				
SYMBOL	DESCRIPTION	MH UNO		
ACP	ACCESS CONTROL PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 2 (TWO) 1" CONDUIT STUBBED ABOVE ACCESSIBLE LAY-IN CEILING WITH PULL STRING	-		
CR	CARD READER. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX ABOVE DOOR	44"		
EL	ELECTRONIC LATCH. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX ABOVE DOOR	-		
J	24" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.	ABOVE CLG.		
КВ	KEY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	60"		
•	PUSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	44"		
ADO	AUTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR	-		
REX	REQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE)	-		

INTRUSION DETECTION ROUGH-IN SYMBOLS			
SYMBOL	DESCRIPTION	MH UNO	
IDCP	INTRUSION DETECTION PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 (TWO) 1" CONDUIT STUBBED ABOVE ACCESSIBLE LAY-IN CEILING	-	
DC	DOOR CONTACT ROUGH-IN	-	
K	KEYPAD. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	44"	
⊢MD→	WALL MOUNTED MOTION DETECTOR. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL STRING	NOTED ON DWGS	
MD→	CEILING MOUNTED MOTION DETECTOR. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL STRING	NOTED ON DWGS	



N.T.S.

TR TELEPHONE TERMINATION **BOARD**



SINGLE DOOR ENTRY

2" CONDUIT SLEEVE FOR COMMUNICATION CABLING

- CEILING

FLOOR

(4 PAIR UTP)

__ 12" MIN.

24" MAX.

ROUGH-IN FOR RECESSED MOUNTED DOOR CONTACT.

2" CONDUIT SLEEVE FOR SOUND SYSTEM CABLING,

NOTE: SLEEVES SHALL NOT

PENETRATE CONCRETE

N.T.S.

CEILING

FLOOR

GENERAL NOTES:

3.5" DEEP 2-

DEVICE BOX

BOND BEAMS OR LINTELS.

ACCESS CONTROL CABLING, INTRUSION DETECTION CABLING, & BUILDING AUTOMATION SYSTEMS (BAS)

- ROUGH-IN FOR THROUGH WIRE HINGE OR ELECTRONIC POWER TRANSFER. THROUGH WIRE HINGE OR ELECTRONIC POWER TRANSFER BY HARDWARE CONTRACTOR. (VERIFY EXACT ROUGH-IN LOCATION WITH DOOR HARDWARE CONTRACTOR.)
- 3 ELECTRIC LATCH OR RETRACTABLE PANIC EXIT DEVICE. BY HARDWARE CONTRACTOR.

TECHNOLOGY ROUGH-IN REQUIREMENTS FOR

- STUB CONDUIT 12" ABOVE

90°FACTORY ELBOWS

- 1-GANG MUD RING

REFER TO SYMBOLS LEGEND

FOR MOUNTING HEIGHTS OF DEVICE TYPES

─ ONE (1) 1"C

W/INSULATED BUSHINGS

ACCESSIBLE LAY-IN CEILING

CONDUIT SLEEVES

(4) ARMORED CABLE LOOP. EXISTING DOOR AND FRAME CONDITION ONLY.

DOOR SECURITY ROUGH-IN LEGEND

5 1/2" FLEX CONDUIT IN DOOR FRAME TO SECURITY JUNCTION BOX ABOVE

2 GANG BOX, 3 1/2" DEEP FOR KEY BOX WITH 1" CONDUIT TO NEAREST

- 6 2 GANG JUNCTION BOX, 3 1/2" DEEP, FOR CARD READER.
- ACCESSIBLE LAY-IN CEILING.
- (8) ROUGH-IN FOR AUTOMATIC DOOR OPERATOR (ADO).

INTERIOR WITH STANDARD CEILING HEIGHT

DOUBLE DOOR ENTRY

NOTE: TYPICAL DOOR ROUGH-IN DETAILS. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND CONFIGURATIONS

- (9) 2 GANG JUNCTION BOX, 3 1/2" DEEP FOR KEY PAD.
- HINGED SECURITY JUNCTION BOX (24'X24"X6"). MOUNTED ABOVE CEILING TO HOUSE ACCESS CONTROL DOOR CONTROLLER.
- (11) 1" CONDUIT TO JUNCTION BOX ABOVE CEILING.

RECEPTION DESK.

GYMNASIUM OR HIGH ROOF STRUCTURE

N.T.S.

- 1" CONDUIT TO CABLE TRAY. N.T.S. 1 GANG JUNCTION BOX. 3 1/2" DEEP, FOR PUSH TO RELEASE BUTTON AT

DOOR SECURITY HARDWARE

ROUGH-IN DETAILS



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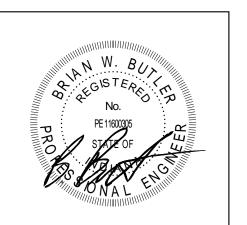
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KEY PLAN

CONSTRUCTION DEVELOPMENT

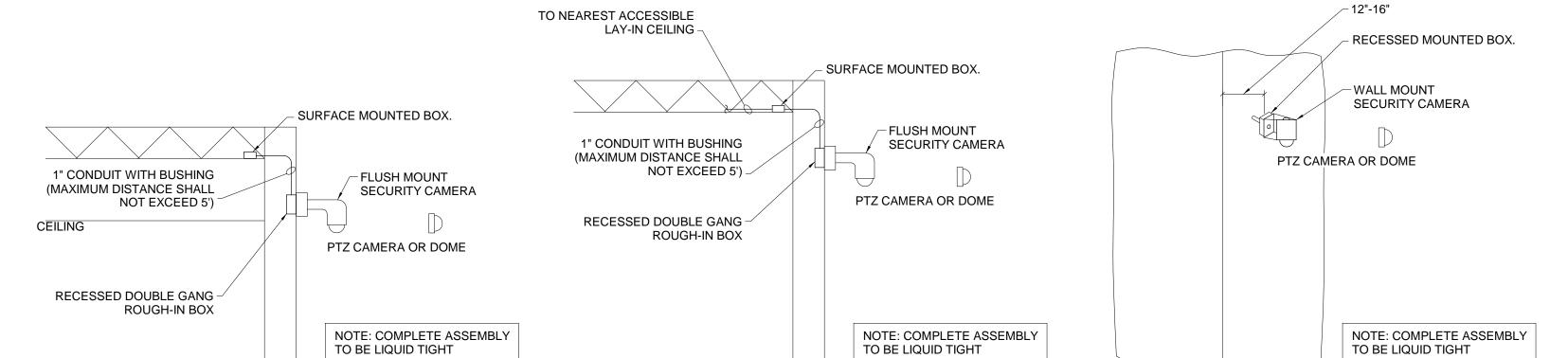


PROJECT MANAGER: MM DRAWN BY: CDT PROJECT NUMBER: 223193.00

PROJECT ISSUE DATE: 2.22.2024 DESCRIPTION DATE

ELECTRICAL DRAWINGS FOR QUANTITY, CIRCUITING, MOUNTING, AND ADDITIONAL REQUIREMENTS.

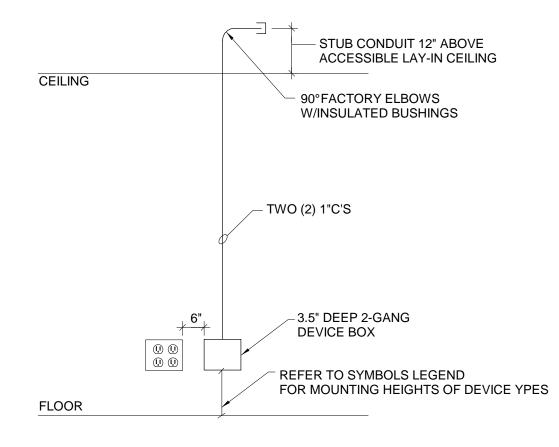
TECHNOLOGY ROUGH-IN REQUIREMENTS 2-GANG WALL BOX - EXPOSED CEILINGS TO NEAREST ACCESSIBLE LAY-IN CEILING



VIDEO SURVEILLANCE CAMERA ROUGH-IN DETAIL

N.T.S.

GRADE



N.T.S.

- 4. PROVIDE PULL STRINGS IN CONDUIT RUNS GREATER THAN 10'

TECHNOLOGY ROUGH-IN REQUIREMENTS

GENERAL NOTES:

2. PROVIDE BLANK COVERPLATES FOR ALL UNUSED BOXES.

3. RECEPTACLES ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY, CIRCUITING, MOUNTING, AND ADDITIONAL REQUIREMENTS.

- 1. MOUNTING HEIGHTS AS LISTED ON THIS SHEET UNLESS NOTED OTHERWISE.

2-GANG WALL BOX - ACCESSIBLE LAY-IN **CEILINGS**

TECHNOLOGY ROUGH-IN REQUIREMENTS 1-GANG WALL BOX - ACCESSIBLE LAY-IN **CEILINGS** N.T.S.

1. PROVIDE BLANK COVERPLATES FOR ALL UNUSED BOXES.

2. PROVIDE PULL STRINGS IN CONDUIT RUNS GREATER THAN 10'

- INSULATED BUSHINGS CEILING STRUCTURE - STUB CONDUIT 12" ABOVE ACCESSIBLE LAY-IN CEILING ACCESSIBLE LAY-IN CEILING - 90°FACTORY ELBOWS - TWO (2) 1"C'S _3.5" DEEP 2-GANG DEVICE BOX REFER TO SYMBOLS LEGEND FOR MOUNTING HEIGHTS OF DEVICE TYPES **FLOOR**

GENERAL NOTES:

1. MOUNTING HEIGHTS AS LISTED ON THIS SHEET UNLESS NOTED OTHERWISE.

2. PROVIDE BLANK COVERPLATES FOR ALL UNUSED BOXES. 3. RECEPTACLES ARE SHOWN FOR COORDINATION ONLY. REFER TO

4. PROVIDE PULL STRINGS IN CONDUIT RUNS GREATER THAN 10' IN LENGTH.

TECHNOLOGY ROUGH-IN DETAILS

KEYNOTES DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE AT THIS LOCATION.

PROVIDE TWO CHANNEL TIMECLOCK FOR CONTROL OF EXTERIOR LIGHTING. WIRE SUCH THAT EXTERIOR LIGHTING AND EMERGENCY LIGHTING ARE ABLE TO BE CONTROLLED SIMULTANEOUSLY.

SEE DETAIL 6 LIGHTING CONTROLS-CLASSROOM FOR LIGHTING CONTROL IN ROOM 114.

GENERAL NOTES - LIGHTING

GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY

FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, OR MC CABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF

LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH

SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH

SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "8/E1.02".

LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP " IN EVERY ROOM, PROVIDE

6.	LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE
	SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE
	INDICATED.
7.	PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURIT
	LIGHT CIRCUITS.

ROOM		AREA
NO.	ROOM NAME	(SF)
101	VESTIBULE	232 SF
102	COMMONS	323 SF
103	UTILITY	97 SF
104	LAUNDRY	113 SF
105	VESTIBULE	72 SF
106	WOMENS LOCKER ROOM	334 SF
107	RESTROOM/SHOWER	201 SF
108	RESTROOM/SHOWER	204 SF
109	VESTIBULE	67 SF
110	MENS LOCKER ROOM	334 SF
111	OFFICE	105 SF
112	OFFICE	104 SF
113	COMMONS	262 SF

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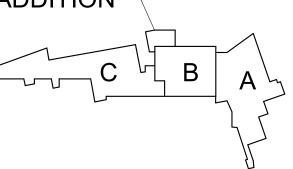
EDISON STATE COMMUNITY COLLAGE





128 WEST MARKET STREET, CELINA, OHIO 45822

ADDITION -





CONSTRUCTION DOCUMENTS

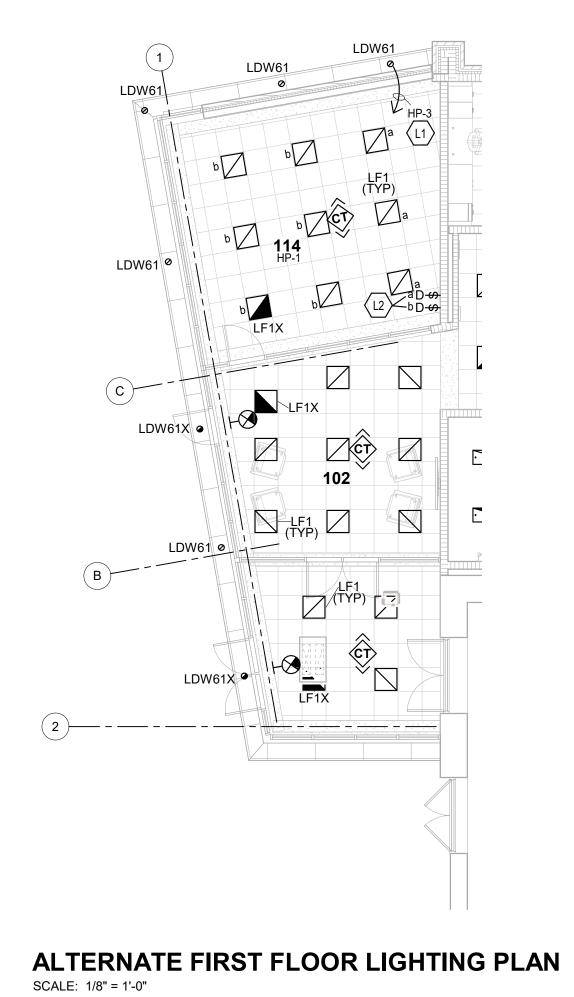


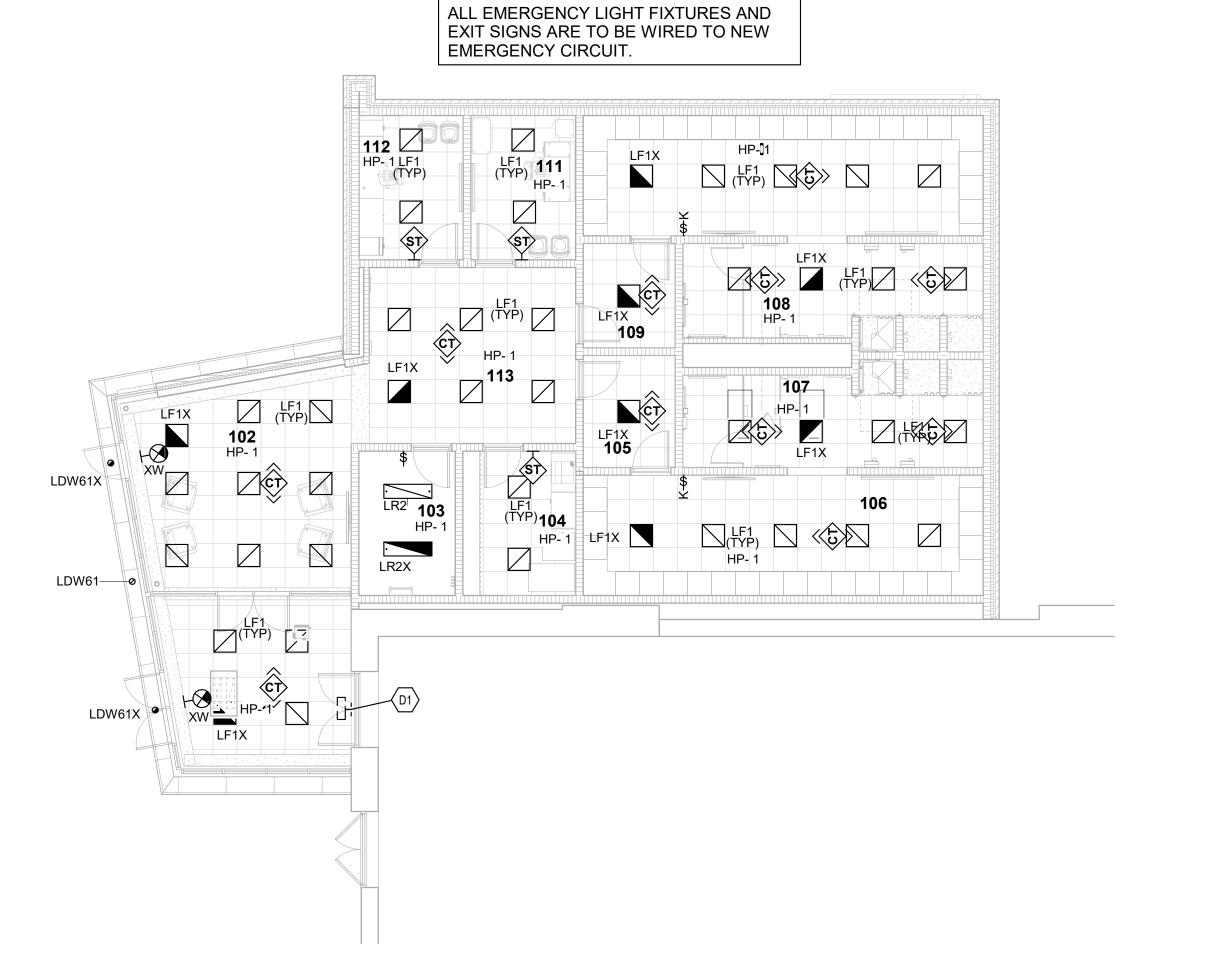
PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024 REV.

NO.△	DESCRIPTION	DATE

FIRST FLOOR LIGHTING PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS
BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH

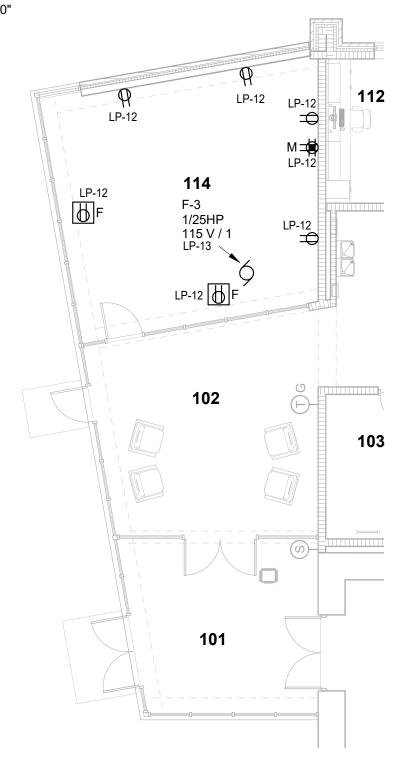




FIRST FLOOR LIGHTING PLAN SCALE: 1/8" = 1'-0"

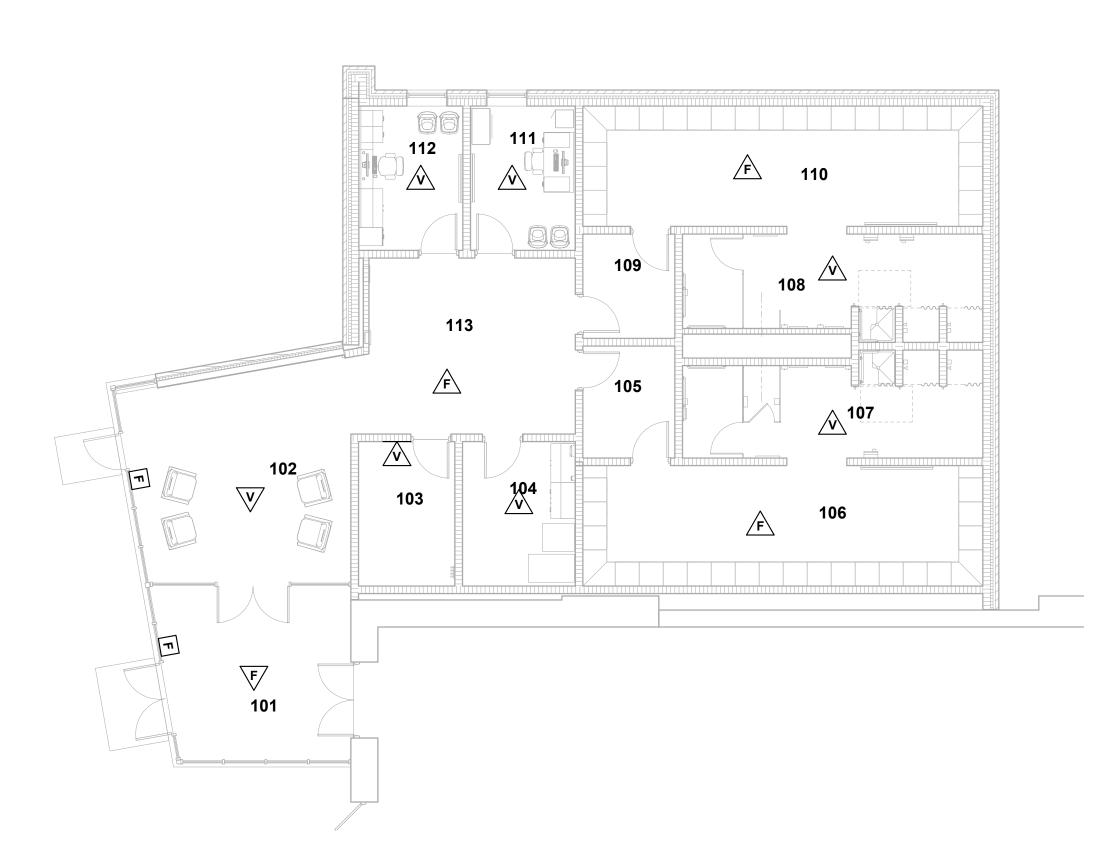
VERIFICATION NOTE

ALTERNATE FIRST FLOOR FIRE ALARM PLAN SCALE: 1/8" = 1'-0"

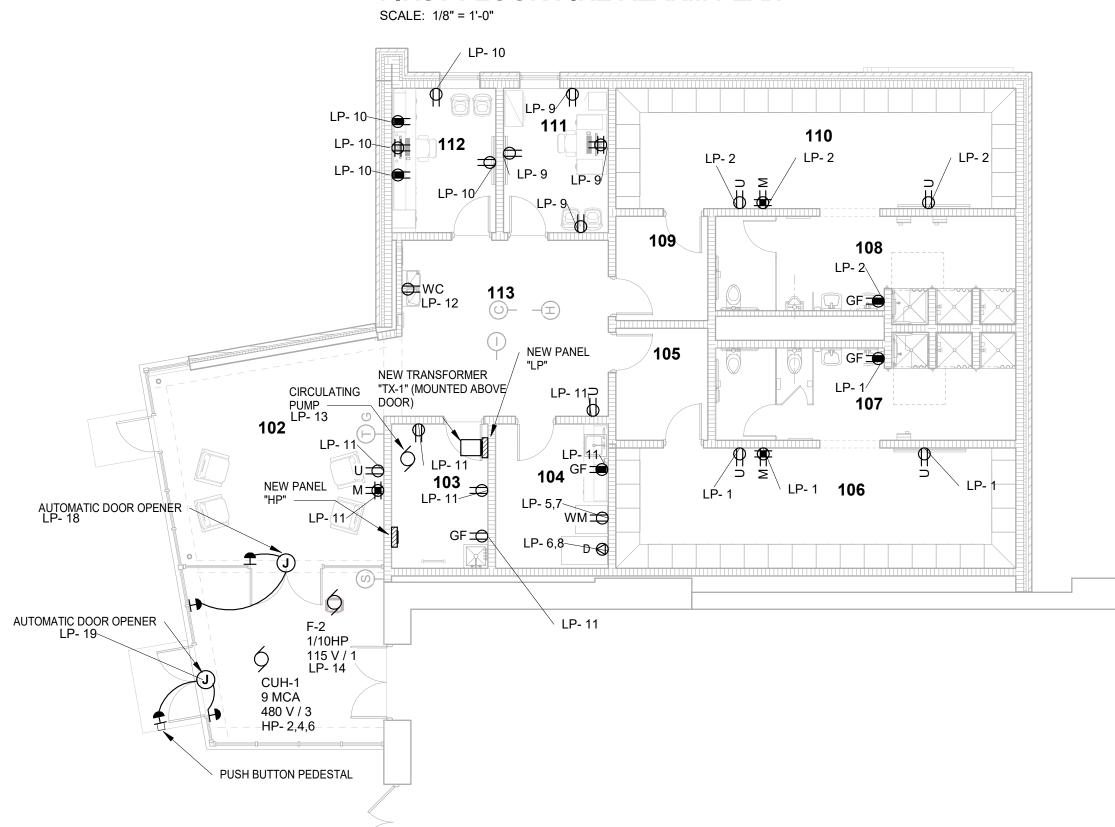


ALTERNATE FIRST FLOOR POWER PLAN

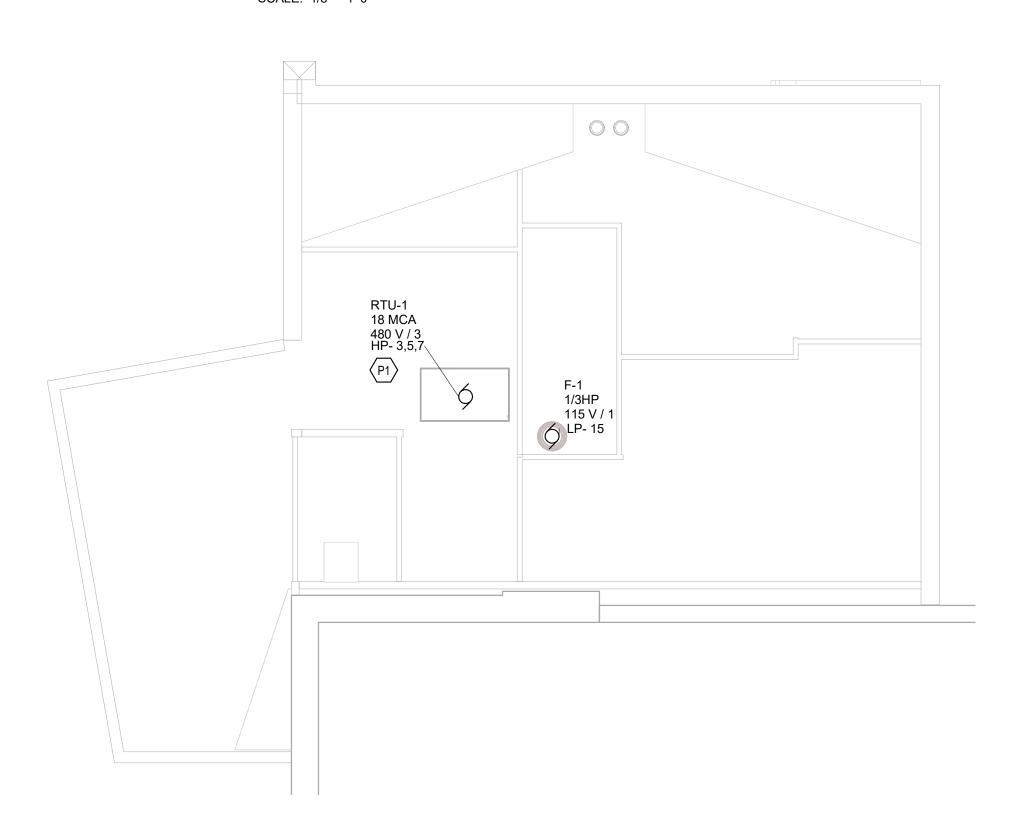
SCALE: 1/8" = 1'-0"



FIRST FLOOR FIRE ALARM PLAN



FIRST FLOOR POWER PLAN SCALE: 1/8" = 1'-0"



ROOFTOP POWER PLAN

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

GENERAL NOTES - POWER

- PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTRUCTIONS.
- CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

 LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE
 OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.

 PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED
- DEVICE.
 CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR
- VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.

 REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONDECT SWITCHES PER NEC.
- REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
 ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

GENERAL NOTES - FIRE ALARM

PROVIDE MATERIALS COMPATIBLE WITH EXISTING SYSTEM AND UPDATE PROGRAMMING AS

R00	M LEGEND - FIRST FLOOR U	A TIV
ROOM NO.	ROOM NAME	ARI (SI
101	VESTIBULE	232
102	COMMONS	323
103	UTILITY	97 8
104	LAUNDRY	113
105	VESTIBULE	72 9
106	WOMENS LOCKER ROOM	334
107	RESTROOM/SHOWER	201
108	RESTROOM/SHOWER	204
109	VESTIBULE	67.5
110	MENS LOCKER ROOM	334
111	OFFICE	105
112	OFFICE	104
112	COMMONS	262

KEYNOTES

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND

CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT

OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH

P1 PROVIDE 3 #12 AND #12G IN 3/4" CONDUIT TO NEW PANEL HP.

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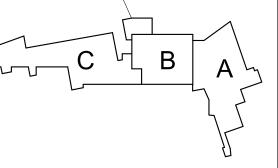
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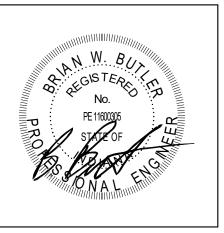
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ADDITION -



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: RDR PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2-22-2024

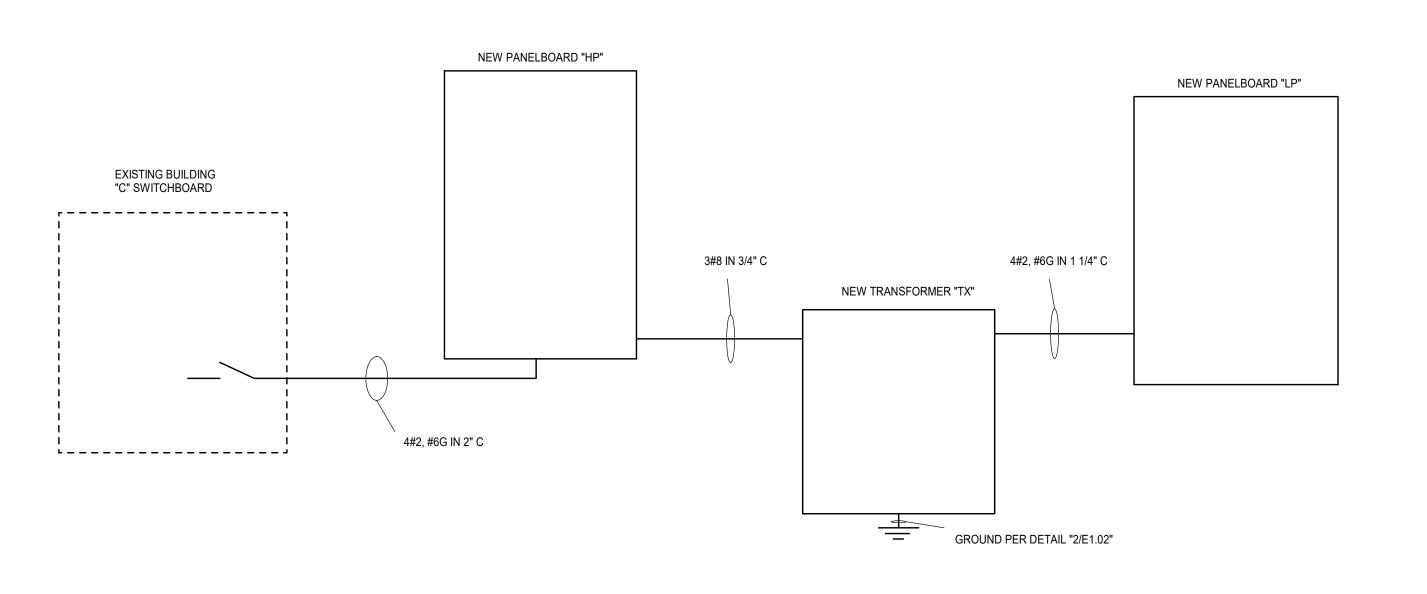
REV. NO.	DESCRIPTION	DATE

FIRST FLOOR POWER AND FIRE **ALARM PLAN**

Notes:	Branch Panel: HP Location: UTILITY 103 Supply From: Existing MSBH Mounting: Recessed Enclosure: Type 1 INTEGRAL SURGE PROTECTION					Volts: Phases: Wires:		Wye .				A.I.C. Rating: Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A		
CKT	Circuit Description	Trip	Poles	Α(VA)	В (VA)	C (VA)	Poles	Trip	Circuit D	escription	СКТ
1	LIGHTING	20 A	1	1314	2491			`		3	20 A	CUH-1	•	2
3	RTU-1 (ROOFTOP)	20 A	3			4982	2491							4
5								4982	2491					6
7				4982	0					3	100 A	TRANSFORMER TX-1		8
9	EXTERIOR LIGHTING	20 A	1			105	0							10
11	Spare	20 A	1					0	0					12
13	Spare	20 A	1	0	0					1	20 A	Spare		14
15	Spare	20 A	1			0	0			1	20 A	Spare		16
17	Spare	20 A	1					0	0	1	20 A	Spare		18
19	Spare	20 A	1	0	0					1	20 A	Spare		20
21	Space		1							1		Space		22
23	Space		1							1		Space		24
25	Space		1							1		Space		26
27	Space		1							1		Space		28
29	Space		1							1		Space		30
31	Space		1							1		Space		32
33	Space		1							1		Space		34
35	Space		1							1		Space		36
37	Space		1							1		Space		38
39	Space		1							1		Space		40
41	Space		1							1		Space		42
		Tot	al Load:	878	7 VA	757	8 VA	747	3 VA		'			
		Tota	l Amps:	32	2 A	27	7 A	27	7 A					
_egend	d: Classification	Cor	inected L	_oad	Der	nand Fa	ctor	Estin	nated De	emand		Panel	Totals	
_ightin	9		1139 VA			100.00%)		1139 VA	4				
Motor			22420 V	4		116.67%)	:	26157 V	A		Total Conn. Load:	23839 VA	
Other			280 VA			100.00%)		280 VA			Total Est. Demand:	27576 VA	
												Total Conn.:	29 A	
												Total Est. Demand:	33 A	

Notes:	Branch Panel: LP Location: UTILITY 103 Supply From: Tranformer TX-1 Mounting: Recessed Enclosure: Type 1 INTEGRAL SURGE PROTECTION				ļ	Volts: Phases: Wires:		Wye				A.I.C. Rating: Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A		
СКТ	Circuit Description	Trip	Poles	Α(VA)	В (VA)	C (\	/A)	Poles	Trip	Circuit De	escription	CK
1	RECEPTS RM. 106 AND 107 GF	20 A	1	900	900	,			•	1	20 A	RECEPTS RM. 108 AND	110 GF	2
3	GF MODULE		1							1		GF MODULE		4
5	Washing Machine LAUNDRY 104	20 A	2					375	375	2	30 A	DRYER RM. 104		6
7				375	375									8
9	RECEPTS RM. 111	20 A	1			900	1080			1	20 A	Receptacle - Convenienc	e OFFICE 112	10
11	RECEPTS RM. 102, 103, AND 104	20 A	1					1440	600	1	20 A	WATER COOLER RM. 1	13	12
13	CIRCULATING PUMP	20 A	1	345	345					1	20 A	F-2		14
15	F-1	20 A	1			828	127			1	20 A	F-3 (ALTERNATE)		16
17	RECEPTS RM. 114 (ALTERNATE)	20 A	1					1440	0	1	20 A	AUTOMATIC DOOR OPE	NER 102A	18
19	AUTOMATIC DOOR OPENER 101A	20 A	1	0	0					1	20 A	Spare		20
21	Spare	20 A	1			0	0			1	20 A	Spare		22
23	Spare	20 A	1					0	0	1	20 A	Spare		24
25	Spare	20 A	1	0	0					1	20 A	Spare		26
27	Spare	20 A	1			0	0			1	20 A	Spare		28
29	Spare	20 A	1					0	0	1	20 A	Spare		30
31	Spare	20 A	1	0	0					1	20 A	Spare		32
33	Spare	20 A	1			0	0			1	20 A	Spare		34
35	Spare	20 A	1					0	0	1	20 A	Spare		36
37	Spare	20 A	1	0	0					1	20 A	Spare		38
39	Spare	20 A	1			0	0			1	20 A	Spare		40
41	Spare	20 A	1					0	0	1	20 A	Spare		42
		Tot	al Load:	324	0 VA	293	5 VA	4230) VA					
		Tota	ıl Amps:	27	7 A	24	I A	36	Α					
egeno					_									
	Classification		nected L			nand Fa		Estimated Demand				Panel	ıotais	
lotor			1518 VA			113.64%)		1725 VA	١		Takal Oam - 1 1	40405.1/4	
Other			0 VA 5040 VA			0.00%			0 VA 5040 VA			Total Conn. Load:		
Receptacle - Convenience			1567 VA			100.00%			1567 VA			Total Est. Demand: Total Conn.:		
Spare Recept	acla		780 VA			100.00%			780 VA			Total Est. Demand:		
	acie ig Machine		750 VA			60.00%			450 VA			TOTAL EST. DELLIQUE	20 A	
	-													
Receptacle - Special		750 VA		80.00%		600 VA								

	LUMINAIRE SCHEDULE								
LAMPS									
PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	NO.	WATTS	TYPE	LUMENS	APPLIED VOLTAGE	DESCRIPTION	VA LOAD
LDW61	PORTFOLIO LD6B SERIES LITHONIA LDN6 SERIES H.E. WILLIAMS 6DR SERIES PRESCOLITE LTR-6RD SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA
LDW61X	PORTFOLIO LD6B SERIES LITHONIA LDN6 SERIES H.E. WILLIAMS 6DR SERIES PRESCOLITE LTR-6RD SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED, WITH EMERGENCY TRANSFER DEVICE.	15 VA
LF1	LITHONIA CPX SERIES DAYBRITE 2FPZ SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	28 W	SOLID STATE LED	3600 lm	277 V	2 BY 2-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 3600K, 80+ CRI, 10% DIMMING.	28 VA
LF1X	LITHONIA CPX SERIES DAYBRITE 2FPZ SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	28 W	SOLID STATE LED	3600 lm	277 V	2 BY 2-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 3600K, 80+ CRI, 10% DIMMING WITH EMERGENCY TRANSFER DEVICE.	28 VA
LR2	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES OR A/E APPROVED EQUAL	SUSPENDED	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LR2X	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES OR A/E APPROVED EQUAL	SUSPENDED	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA



ONE-LINE DIAGRAM
NOT TO SCALE

LUMINAIRE SCHEDULE - GENERAL NOTES

ALL LAMPS LISTED IN SCHEDULE ARE SYLVANNIA CATALOG NUMBERS, UNLESS OTHERWISE NOTED. EQUAL LAMPS BY MANUFACTURERS INDICATED IN SPECIFICATION SECTIONS 265600 ARE ACCEPTABLE.
 SEE SPECIFICATIONS FOR BALLAST REQUIREMENTS.
 FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
 CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY TRANSFER DEVICES AND PROVIDE REQUIRED QUANTITY OF EMERGENCY TRANSFER DEVICES, LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY TRANSFER DEVICES.
 LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR BALLAST COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY

CUSTOM COLOR LIGHT FIXTURES.

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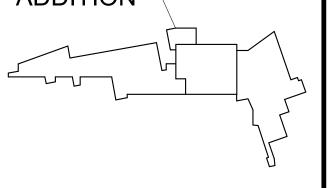


APCHITECT



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ADDITION —





CONSTRUCTION DOCUMENTS



PROJECT NUMBER: 223193.00

PROJECT ISSUE DATE: 2-22-2024

REV.
NO. DESCRIPTION

LUMINAIRE AND PANELBOARD SCHEDULES

E8.01

INTERIOR VIDEO SURVEILLANCE CAMERA SYMBOLS LEGEND										
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE								
CAM	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1								

	EXTERIOR VIDEO SURVEILLANCE CAMERA SYMBOLS	S LEGEND
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
H((₹))◀	WALL MOUNTED WEATHERPROOF VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	

	ACCESS CONTROL SYMBOLS LEGEND									
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE								
J	ABOVE CEILING WALL MOUNTED DOOR ACCESS CONTROLLER JUNCTION BOX. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	T1.02								
CR	CARD READER	T1.02								
EL	ELECTRONIC LATCH SET WITH ELECTRONIC POWER TRANSFER	T1.02								

	INTRUSION DETECTION SYMBOLS LEGEND										
SYMBOL	DESCRIPTION										
DC	DOOR CONTACT	-									

	CLOCK SYSTEM SYMBOLS	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
SYMBOL	DESCRIPTION	
- DIG	WALL MOUNTED SINGLE-FACED DIGITAL CLOCK	

TECHNOLOGY GENERAL NOTES

- A THE COMMUNICATIONS CABLING CONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY ADDITIONAL CONDUIT SLEEVES, OUTLET/JUNCTION BOXES, SURFACE RACEWAY, CABLE TRAY, DOUBLE GANG SQUARE PLASTER MUD RINGS, ETC. NOT SHOWN ON THE E3 ROUGH IN DRAWINGS.
- B THE COMMUNICATIONS CABLING CONTRACTOR(S) IS/ARE RESPONSIBLE FOR COORDINATING WITH ELECTRICAL CONTRACTOR IN EXTENDING THE ELECTRICAL SERVICE FROM THE ELECTRICAL JUNCTION BOX IN THE SPACE TO ALL THE COMMUNICATIONS RACKS/CABINETS.
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REPLACING/REPAIRING DAMAGED CEILING GRID/TILE AS A RESULT OF THEIR INSTALLATION.
- D THE CONTRACTOR SHALL VERIFY THE SURFACE RACEWAY LOCATIONS, ROUTING, OPENINGS, ETC. WITH THE BUILDING ELECTRICAL CONTRACTOR. PROVIDE PROPER COVER PLATES FOR THE DEVICES AS REQUIRED.
- E THE COMMUNICATIONS CABLING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE VIDEO MONITOR WITH THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR TO CONFIRM ROUGH INS AND MOUNTS ARE PLACED AND HIDDEN BEHIND THE MONITOR.
- F THE DIVISION 27/28 TECHNOLOGY CONTRACTOR SHALL MATCH ANY EXISTING SYSTEMS THAT ARE CURRENTLY IN PLACE AT THE OWNERS SITE. THIS INCLUDES THE FOLLOWING: 1. ACCESS CONTROL: LENEL
- 2. CAMERAS: AXIS 3. WIRELESS ACCESS POINTS: CISCO MERAKI #MR46

TECHNOLOGY ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW.

AFF AFG	ABOVE FINISH FLOOR ABOVE FINISH GRADE
В	BLANK
С	CONDUIT
- · - · ·	

CABLE ANTENNA TELEVISION JUNCTION BOX

MC/ER / MDF MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME

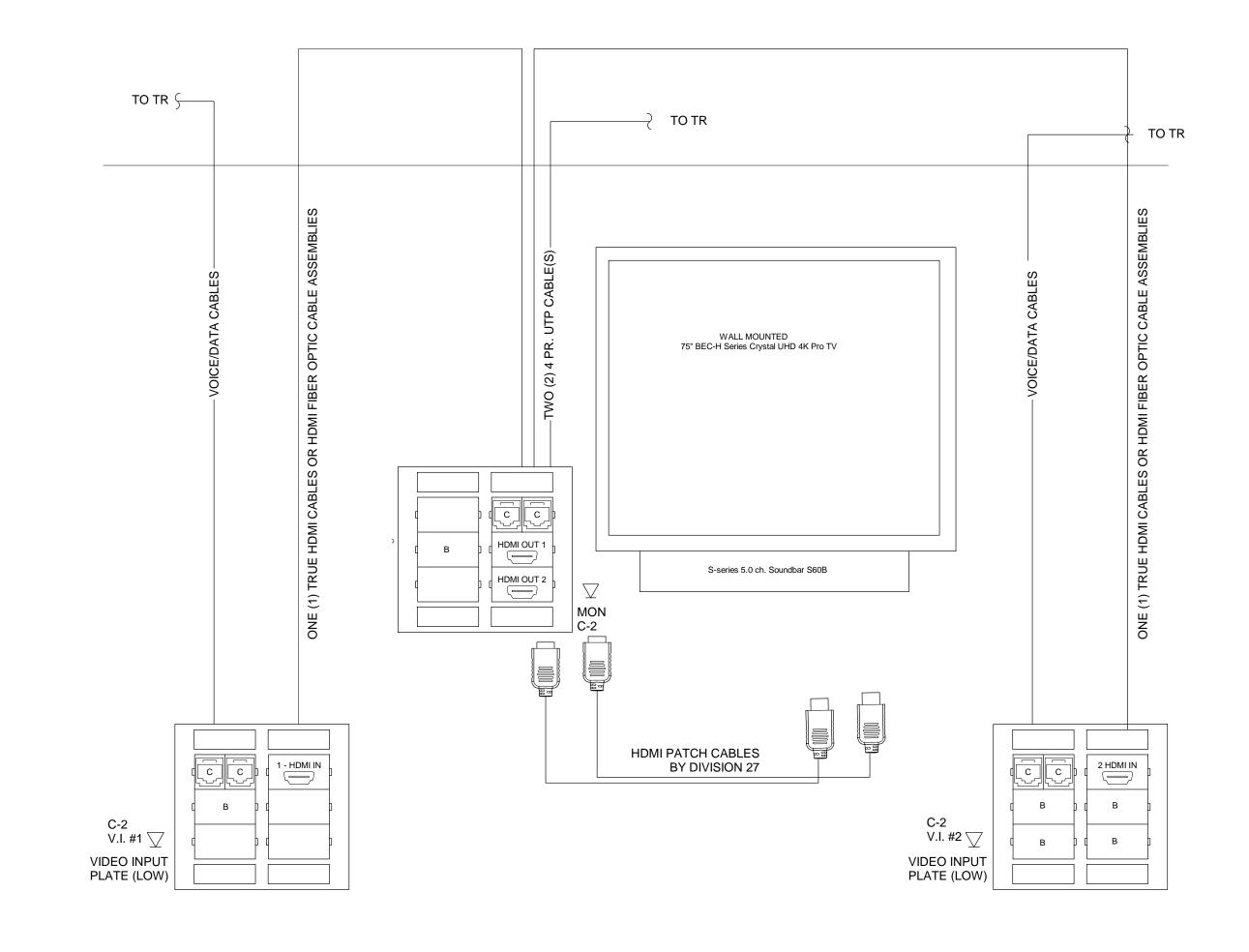
INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVICE FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT

NOT TO SCALE NTS TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE

DISTRIBUTION FRAME T.T.B. TELEPHONE TERMINATION BOARD TELEVISION **UNLESS NOTED OTHERWISE** UNO

VERIFY IN FIELD **VOLUME CONTROL** WALL MOUNTED VIDEO INPUT LOCATION **DEMO TABLE** WIRE GUARD RELEASE **DUAL FACE** WEATHER PROOF

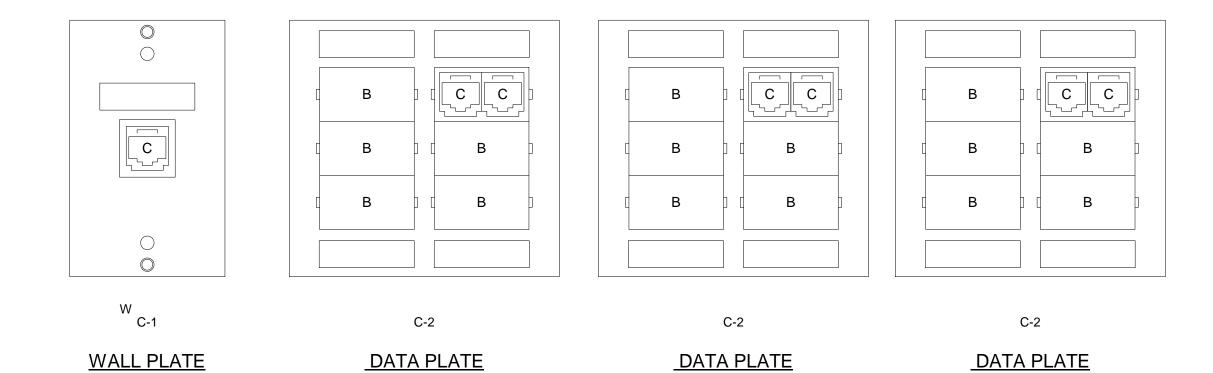
VIDEO OUTPUT PAN TILT ZOOM **EXISTING TO REMAIN** VIDEO PROJECTOR SURFACE MOUNTED VISUAL PAGING STROBE



FLOOR

ALTERNATE BID - TEAM ROOM AV WIRING - VIDEO INPUT TO

MONITOR AND SOUNDBAR



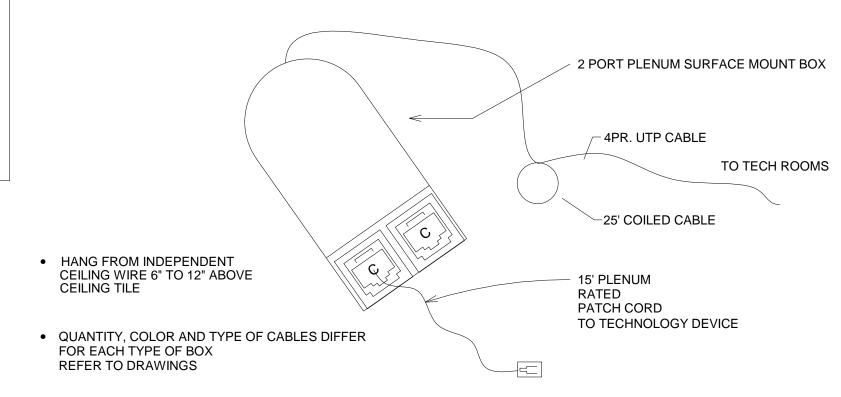
TECHNOLOGY FACEPLATE ABBREVIATIONS

- C RJ45 DATA JACK B - BLANK INSERT
- HDMI HDMI CONNECTOR

NOTE:

REFER TO AV WIRING DETAILS FOR **EXACT CONFIGURATIONS OF VIDEO** INPUT (V.I.), VIDEO OUTPUT (VO), AND AV CABINET LOCATIONS..

> WALL PLATE CONFIGURATIONS NO SCALE

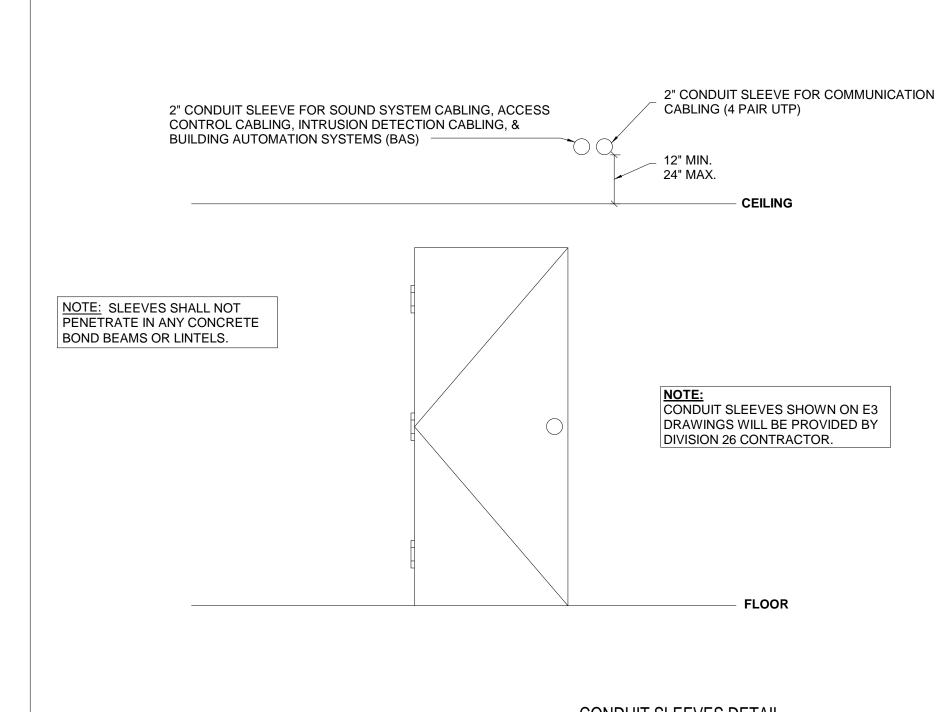


TYPICAL ABOVE CEILING JUNCTION BOX - WIRING DETAIL

	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL
ACCESS CONTROL WIRING ROUGH-IN	YES	YES	NO	NO
ACCESS CONTROL CARD READERS AND EQUIPMENT	YES	YES	NO	NO
INTRUSION DETECTION RECESSED DOOR CONTACTS	YES	YES	NO	NO
DOOR CONTACT & ELECTRONIC DOOR RELEASE WIRING	YES	YES	NO	NO
PHONE SETS OR PROGRAMMING	N/A	N/A	YES	YES
PAGING / INTERCOM SPEAKERS	N/A	N/A	N/A	N/A
PAGING / INTERCOM WIRING	N/A	N/A	N/A	N/A
AV MONITORS	YES	YES	NO	NO
AV MONITOR MOUNTS	YES	YES	NO	NO
AV MONITORS MISC. CABLING (IN WALL)	YES	YES	NO	NO
MONITOR SOUND BAR	YES	YES	NO	NO
AV MONITOR PATCH CABLES	YES	YES	NO	NO
DIGITAL CONSUMER GRADE CLOCKS	YES	YES	N/A	N/A
FIBER BACKBONE	YES	YES	NO	NO
FIBER TERM AND TEST	YES	YES	NO	NO
FIBER ENCLOSER WITH LC COUPLER PANEL	YES	YES	NO	NO
NETWORK EQUIPMENT (SWITCHES OR UPS')	NO	YES	YES	NO
NETWORK SFP	NO	YES	YES	NO
IDF WALL MOUNT CABINET	YES	YES	NO	NO
CLASSROOM SOUND REINFORCEMENT	NO	NO	NO	NO
SURVEILLANCE CAMERAS	YES	YES	NO	NO
SURVEILLANCE CAMERAS CAT6 CABLING	YES	YES	NO	NO
WIRELESS ACCESS POINTS	YES	NO	YES	YES
WIRELESS ACCESS POINTS CAT6 CABLING	YES	YES	NO	NO

N.T.S.

CONTRACTOR - OWNER RESPONSIBILITY N.T.S.



CONDUIT SLEEVES DETAIL

CONVOCATION CENTER **EXPANSION**

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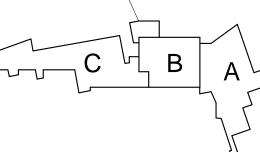
EDISON STATE COMMUNITY COLLEGE





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ADDITION



KEY PLAN

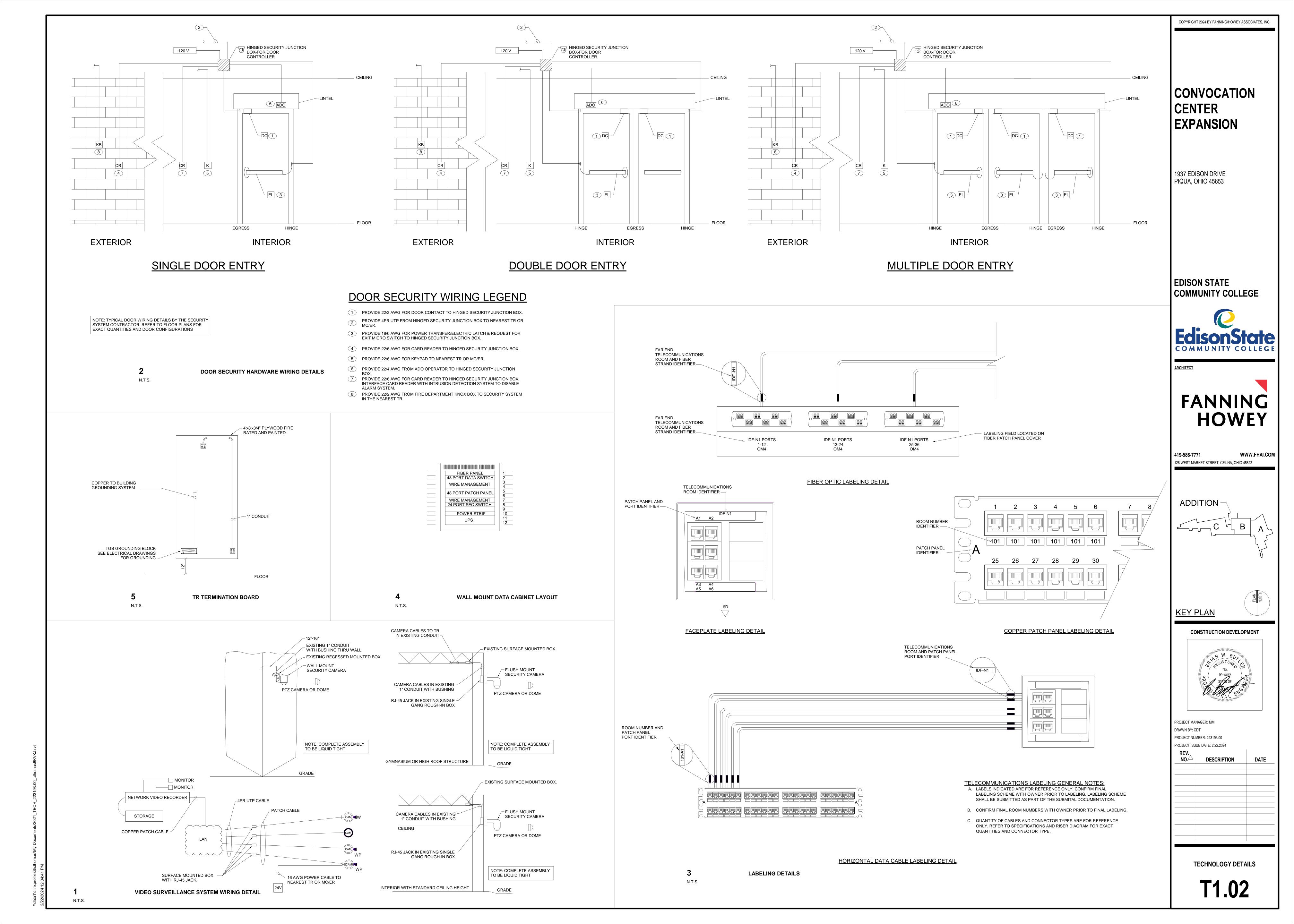
CONSTRUCTION DEVELOPMENT



PROJECT MANAGER: MM DRAWN BY: CDT PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2.22.2024

REV. NO.	DESCRIPTION	DATE

TECHNOLOGY DETAILS



CONVOCATION CENTER **EXPANSION**

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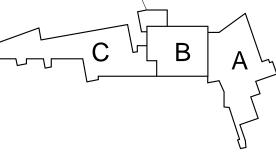
EDISON STATE COMMUNITY COLLEGE

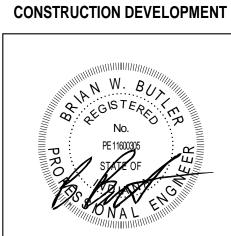




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ADDITION -





PROJECT MANAGER: MM PROJECT NUMBER: 223193.00 PROJECT ISSUE DATE: 2.22.2024

NO.	DESCRIPTION	DATE
-		

TECHNOLOGY SITE PLAN

T2.01

ROOM LEGEND - FIRST FLOOR UNIT A

ROOM NO. | ROOM NAME | AREA (SF)

TECHNOLOGY PLAN NOTES

T3 DIGITAL CLOCKS SHOWN ARE WALL MOUNT CONSUMER TYPE BATTERY CLOCKS. NO EXISTING CLOCK SYSTEM IS IN PLACE.

CONVOCATION CENTER EXPANSION

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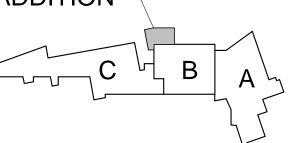


ARCHITECT



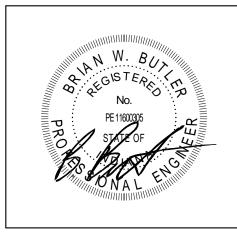
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ADDITION —



KEY PLAN

CONSTRUCTION DEVELOPMENT



PROJECT MANAGER: MM

DRAWN BY: CDT

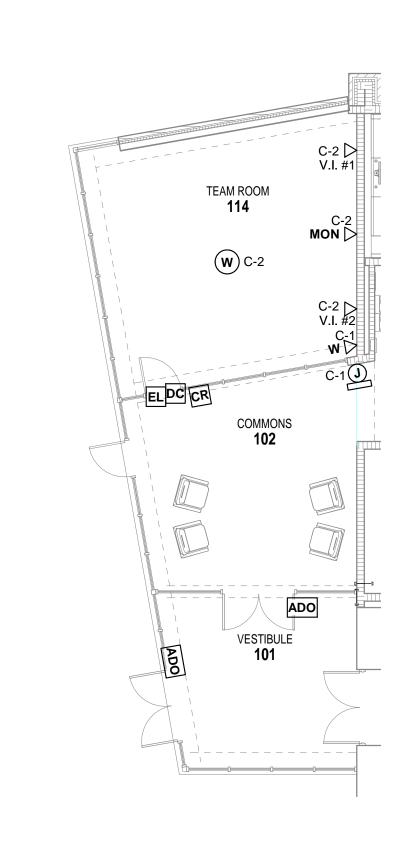
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PROJECT ISSUE DATE: 2.22.2024

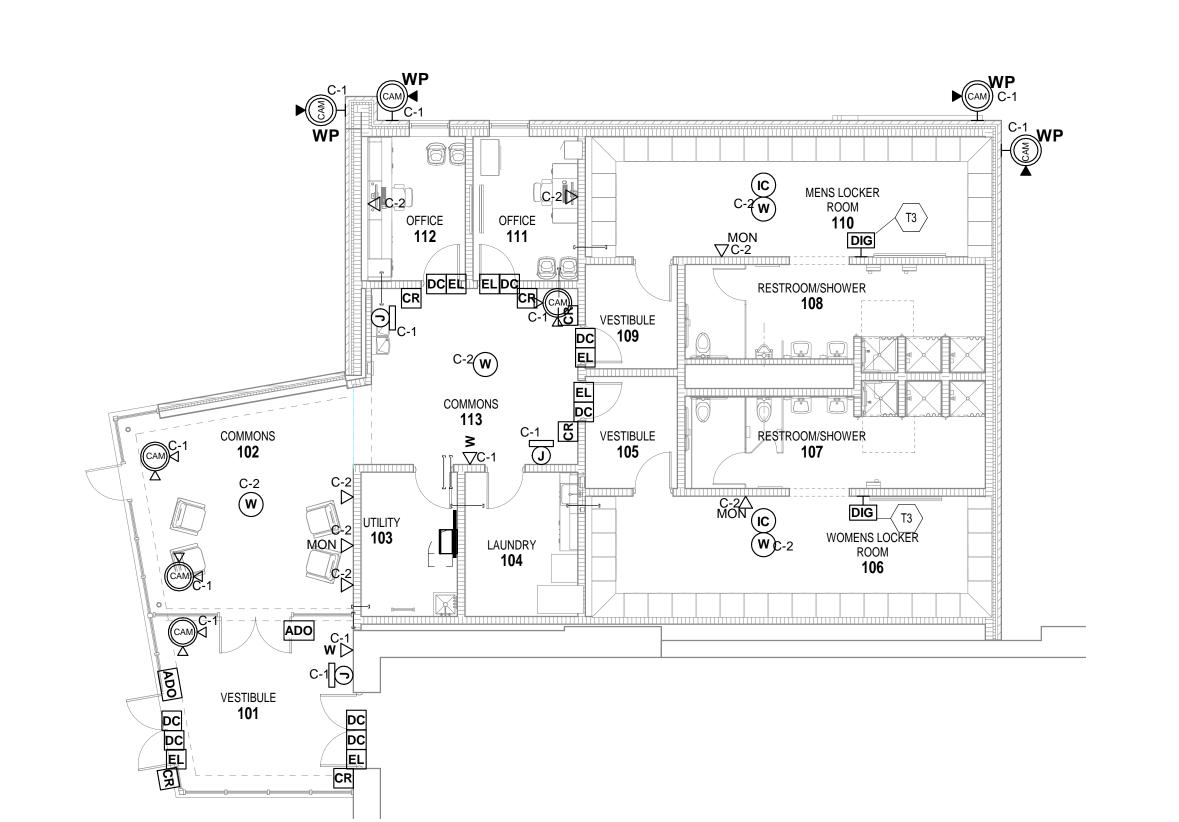
REV. NO.	DESCRIPTION	DATE

FIRST FLOOR TECHNOLOGY PLAN

T3.01



FIRST FLOOR TECHNOLOGY PLAN ALTERNATE SCALE: 1/8" = 1'-0"



FIRST FLOOR TECHNOLOGY PLAN

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