A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT STATION # 26

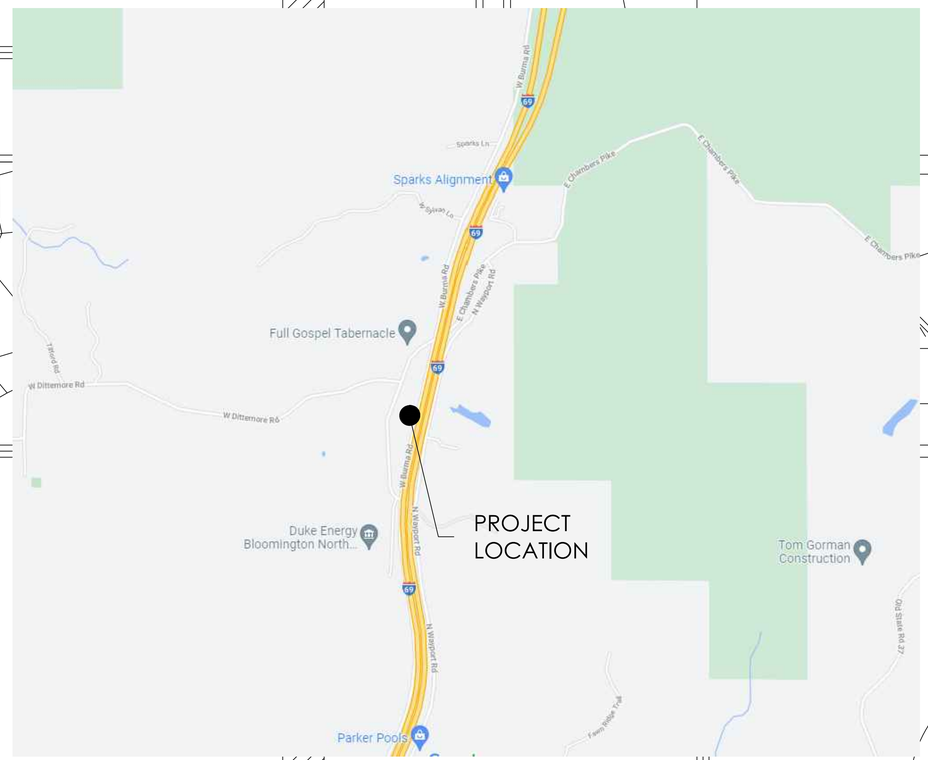
478 EAST CHAMBERS PIKE

BLOOMINGTON, INDIANA 47404

DRAWING INDEX

JULY 2024

CONSTRUCTION DOCUMENTS



A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT STATION #26

SEAL

HOWARD DOUGLAS BRUCE
REGISTERED
NO.
AR19900009
STATE OF
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GENERAL NOTES & SPECIFICATIONS

DIV. 0 GENERAL

01 Dimensions

A. INTERIOR PLAN DIMENSIONS ARE TO FACE OF STUD OR CONCRETE (CMU) UNLESS A CENTERLINE/GRIDLINE IS INDICATED, WHICH WILL THEN INDICATE THE DIMENSION IS TO CENTER OF ELEMENT. (COLUMN,WALL,STUD,ETC.).

B. EXTERIOR PLAN DIMENSIONS ARE TO FACE OF STUD UNLESS A CENTERLINE OR GRIDLINE IS INDICATED, WHICH WILL THEN INDICATE THE DIMENSION IS CENTER OF ELEMENT. SEE EXTERIOR DETAILS FOR ADDITIONAL INFO.

C. DOOR AND CASED OPENINGS WITHOUT LOCATION DIMENSIONS ARE THREE (3) INCHES FROM FACE OF ADJACENT PARTITION OR CENTERED BETWEEN PARTITIONS (UON).

D. ALIGNMENT TAKE PRECEDENT OVER DIMENSIONS. VERIFY ALL DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

E. EXTERIOR WINDOWS ARE DIMENSIONED TO WINDOW SIZE AS INDICATED ON WINDOW SCHEDULE. CONTRACTOR SHALL DETERMINE WINDOW ROUGH OPENING REQUIREMENTS.

F.

G. DO NOT SCALE DRAWINGS – THE CONTRACTORS SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENT. NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.

H. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR INTERPRETATION AND OR CORRECTIONS PRIOR TO INSTALLATION. COST OF CORRECTING WORK BASED ON MISINTERPRETATION BY CONTRACTOR OR UNREPORTED DIMENSIONAL DISCREPANCIES SHALL BE BORNE BY THE CONTRACTOR.

I. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE ON THE DRAWINGS. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS. DIMENSIONS GOVERN MEASUREMENTS.

02 Codes

A. ALL WORK SHALL CONFORM TO APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND REGULATIONS. IN CASE OF ANY CONFLICT WHERE SPECIFIED DOES NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. NOTIFY THE ARCHITECT OF ALL CONFLICTS.

03 Abbreviations and Symbols

A. THROUGHOUT THE PLAN ARE ABBREVIATIONS AND SYMBOLS WHICH ARE IN COMMON USE. THE LIST OF ABBREVIATIONS AND SYMBOLS PROVIDED IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE OF CONDITIONS OR MATERIALS ACTUALLY USED ON THE PROJECT. THE ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

04 Elevation Datums

A. FLOOR PLAN DATUM ELEVATIONS ARE INDICATED ON THE EXTERIOR ELEVATIONS.

B. ALL ROOF ELEVATIONS ARE REFERENCED FROM DATUM AS INDICATED ON FLOOR PLAN.

C. CEILING HEIGHTS INDICATED ON THE REFLECTED CEILING HEIGHTS ARE FROM TOP OF SLAB/OR FINISH FLOOR TO FINISH CEILING.

05 Accessibility Standards

A. SEE ACCESSIBILITY NOTES AND DETAIL SHEETS FOR ACCESSIBILITY REQUIREMENTS.

B. CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION CALL PUBLIC AND EMPLOYEE AREAS SHALL BE ACCESSIBLE. THE CONTRACTORS SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS, AND/OR FIELD CONDITIONS AND THE ADA/LOCAL REGULATIONS.

DIV. 1 GENERAL CONDITIONS

1.1 THE ENTIRE WORK PROVIDED FOR HEREIN IS TO BE CONSTRUCTED AND FINISHED IN EVERY PART IN A GOOD AND SUBSTANTIAL MANNER IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, TO THE FULL INTENT OF THE SAME. ANY WORK REQUIRED BY LAW, BUT WHICH MAY NOT BE SPECIFICALLY MENTIONED BY LAW, SHALL BE DONE BY CONTRACTORS IN ACCORDANCE WITH THE LAWS OF THE COUNTY, DISTRICT, OR STATE UNDER WHICH JURISDICTION MAY COME AND COST SHALL BE BORNE BY CONTRACTORS. ANY SUCH WORK SHALL BE DONE IN CONFORMANCE WITH THE PLAN, BOTH AS TO MANNER AND APPEARANCE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH UBC, TITLE 17, TITLE 24 AND THE AMERICANS WITH DISABILITY ACT (ADA) AND AS REQUIRED BY THE LOCAL GOVERNING AGENCIES.

1.2 THE DRAWINGS AND SPECIFICATIONS: THESE DRAWINGS COVER THE FURNISHING AND INSTALLATION OF ALL MATERIALS AND WORK AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS (OR IN BOTH) WHICH ARE BOUND SEPARATELY AND ARE A PART OF THE CONTRACT. CIVIL, LANDSCAPING, INTERIOR DESIGN, KITCHEN AND LAUNDRY, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID AND BEFORE INSTALLATION OF THEIR WORK ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE CONSULTING ENGINEER(S) DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BY WRITTEN REQUEST FOR CLARIFICATION. ANY WORK OMITTED OR INSTALLED IN CONFLICT WITH ARCHITECTURAL DRAWINGS SHALL BE PERFORMED OR CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

1.3 ALL SITE INFORMATION IS BELIEVED TO BE CORRECT, HOWEVER, IT IS ALL CONTRACTORS RESPONSIBILITY TO VERIFY ALL ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING A BID.

1.4 THE CONTRACTORS SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, SERVICES AND TRANSPORTATION REQUIRED TO FULLY CARRY OUT THE INTENTIONS OF THE PLANS AND SPECIFICATIONS AS PART OF THEIR CONTRACTS, WHETHER OR NOT SPECIFICALLY DOCUMENTED. THE CONTRACTORS SHALL PROVIDE EACH ITEM MENTIONED, INDICATED, OR IMPLIED TO ACHIEVE THE INTENDED BUILDING ACCORDING TO THE METHODS OF BEST CONSTRUCTION PRACTICE. THE ARCHITECT SHALL BE THE FINAL JUDGE AS TO THE QUALITY OF THE WORKMANSHIP, AND RESERVES THE RIGHT TO REJECT ANY WORK CONSIDERED INFERIOR.

1.5 ALL MANUFACTURED EQUIPMENT AND MATERIALS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, AND ARE TO BE NEW. MANUFACTURER'S RECOMMENDATIONS SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS AS THOUGH INCLUDED HEREIN.

1.6 THE ARCHITECT IS AUTHORIZED TO ORDER MINOR CHANGES DURING THE COURSE OF THE WORK WHICH WILL NOT INVOLVE EXTRA COST OR TIME AND WHICH ARE CONSISTENT WITH THE CONTRACT DOCUMENTS.

1.7 CONTRACTORS SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL HOURS.

1.8 THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN MAKING RECORD DRAWINGS ANY REVISIONS SHALL BE NOTED THEREON AND SUBMITTED TO THE ARCHITECT AT THE COMPLETION OF THE JOB PER THE PROJECT MANUAL. PROVIDE A COPY FOR THE OWNER PER CONSTRUCTION DOCUMENTS.

1.10 Building Permits

A. THE OWNER SHALL OBTAIN THE STATE (IF REQUIRED), AND LOCAL BUILDING PERMITS.

B. SEPARATE PERMITS REQUIRED FOR GRADING OR DEMOLITION, FIRE PROTECTION, UTILITIES WORK, AND AS REQUIRED BY THE LOCAL GOVERNING AGENCIES, SHALL BE OBTAINED BY THE CONTRACTOR.

C. ALL COSTS FOR PERMITS, OTHER THAN THOSE OBTAINED BY THE OWNER, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.

1.11 Coordination

A. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION WITH OTHER CONTRACTORS TO ASSURE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, AND THE ACCURATE LOCATION OF STRUCTURAL MEMBERS AND OPENINGS FOR MECHANICAL, ELECTRICAL, STAIRS, ELEVATORS AND MISCELLANEOUS EQUIPMENT.

B. CONTRACTORS SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATION WITH EQUIPMENT MANUFACTURERS AND VERIFY CONFORMANCE WITHIN ARCHITECTURAL DOCUMENTATION BEFORE PROCEEDING WITH THE WORK.

C. THE CONTRACTORS ARE REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

D. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED.

E. ALL COMBUSTIBLES CONSISTING OF BOXES, SCRAP LUMBER, ETC. ON THE CONSTRUCTION SITE SHALL BE CLEANED UP AND DISPOSED OF IN AN APPROVED MANNER ON A DAILY BASIS.

1.12 Testing

A. THE OWNER AND/OR ARCHITECT RESERVE THE RIGHT TO HAVE TESTS MADE WHEN DEEMED NECESSARY. SHOULD THE ARCHITECT ORDER SPECIAL TESTING OR INSPECTION OF A QUESTIONABLE PART OF THE WORK WHICH REVEALS DEFECTS NOT IN CONFORMITY WITH THE CONTRACT DOCUMENTS, THE TRADE RELATED CONTRACTOR SHALL PAY THE COST OF BUCH SPECIAL TESTING OR INSPECTIONS INCLUDING THE ARCHITECT'S EXTRA SERVICES MADE NECESSARY THEREBY, OTHERWISE THE OWNER SHALL BEAR BUCH COST.

B. TESTS SHALL BE MADE IN ACCORDANCE WITH RECOGNIZED STANDARDS BY A COMPETENT, INDEPENDENT TESTING LABORATORY. ANY MATERIAL FOUND DEFECTIVE OR NOT IN CONFORMITY WITH SPECIFICATION STANDARDS SHALL BE PROMPTLY REPLACED OR REPAIRED AT THE EXPENSE OF THE CONTRACTOR SAMPLES FOR TESTING WILL BE FURNISHED BY THE TRADE RELATED CONTRACTOR AND SELECTED REQUIRED AS DIRECTED BY THE ARCHITECT.

1.13 Miscellaneous

A. THE CONTRACTORS SHALL COMPLY WITH REQUIREMENTS FOR THE STORAGE AND HANDLING OF HAZARDOUS MATERIALS AS REQUIRED BY LOCAL ORDINANCE.

B. THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR CONSTRUCTION WATER. DUST SHALL BE CONTROLLED BY WATERING AS REQUIRED.

C. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW IN ITEMS CALLED OUT AS 'OR EQUAL," AND IN ACCORDANCE WITH THE PLANS, SPECS, AND NOTES.

D. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION AND IN COMPLIANCE WITH CONDITIONS OF APPROVAL.

E. CONTRACTOR SHALL INCLUDE COST FOR ALL REQUIRED STAKING.

1.14 Demolition

A. ABSOLUTE CARE SHOULD BE EXERCISED IN THE REMOVAL OF EXISTING BUILDING FABRIC. REMOVE ONLY WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION OF THE NEW WORK. IF ANY DOUBT OR QUESTIONS ARE ENCOUNTERED, NOTIFY ARCHITECT.

B. REFER TO THE STRUCTURAL DRAWINGS FOR FRAMING CONDITIONS THAT MAY REQUIRE DEMOLITION OR REINFORCING WORK PRIOR TO NEW CONSTRUCTION.

C. PRIOR TO DEMOLITION WORK, REFER TO ALL OTHER DRAWINGS TO THOROUGHLY BECOME FAMILIAR WITH ALL CONSTRUCTION WORK TO MINIMIZE DEMOLITION.

D. REMOVE ALL EXISTING PLUMBING PIPING THAT IS EXPOSED OR ENCOUNTERED.

E. REMOVE ALL EXPOSED PLUMBING PIPING AFTER REMOVING PLUMBING FIXTURES. CAP BELOW WALL OR FLOOR SURFACE IF COMPLETE REMOVAL IS NOT FEASIBLE.

F. ALL PLASTER AND INSULATION WRAP AROUND PIPING AND DUCTWORK IS TO BE TESTED FOR THE PRESENCE OF ASBESTOS. IF ASBESTOS IS FOUND TO BE PRESENT, ABATEMENT AND DISPOSAL IS TO CONFORM WITH LOCAL, STATE, AND FEDERAL GUIDELINES.

G. REFER TO THE ARCHITECTURAL DRAWINGS FOR NEW WORK THAT MAY REQUIRE DEMOLITION NOT SHOWN ON THE DEMOLITION PLANS

H. VERIFY ALL STRUCTURAL CONDITIONS PRIOR TO REMOVING ANY WALLS

I. DEMOLITION CONTRACTOR TO CAREFULLY LEAVE STRUCTURE THAT REMAINS IN GOOD CONDITION, AND TO USE TEMPORARY SUPPORT AS NEEDED TO INSURE STRUCTURE STABILITY.

J. DEMOLITION CONTRACTOR SHALL BE HELD STRICTLY RESPONSIBLE TO ABIDE BY ALL RULES, REGULATIONS AND ORDINANCES AS DICTATED BY THE CITY OF PROJECT AND OR ANY OTHER GOVERNING AGENCY.

K. DEMOLITION PROCEDURES AND REMOVAL OF REFUSE SHALL OCCUR IN AN ORDERLY FASHION. NO STORAGE OF REFUSE SHALL OCCUR ON SITE. NO SALE OF SCRAP OR REFUSE SHALL OCCUR ON SITE. NO BURNING OF REFUSE SHALL BE PERMITTED. NO USE OF EXPLOSIVES SHALL BE PERMITTED.

L. DEMOLITION CONTRACTOR SHALL BE HELD RESPONSIBLE TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO DEMOLITION. CONTRACTOR ASSUMES ALL RESPONSIBILITIES AND LIABILITIES ASSOCIATED WITH REGARD TO DEMOLITION PRACTICES AND ASSUMES SUCH.

M. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR SAFETY AND SECURITY OF THE ENTIRE SITE AND FACILITY DURING PROCESS OF DEMOLITION AND SHALL OBTAIN INSURANCE'S PROTECTING THE OWNER, DESIGN BUILDER AND ARCHITECT.

N. DEMOLITION CONTRACTOR TO TAKE ALL STEPS NECESSARY TO PREVENT POLLUTION OF AIR, WATER AND SOILS, AND SHALL;

1. COMPLY WITH ENVIRONMENTAL POLLUTION REGULATIONS.
2. NO STORAGE OF CONTAMINANTS ARE PERMITTED ON SITE.
3. DEMOLITION CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ACCIDENTS DUE TO PHYSICAL HAZARDS (i.e. BARRICADES, WARNING LIGHTS, SIGNS AS REQUIRED). CONTRACTOR IS REQUIRED TO INSURE PUBLIC SAFETY DURING THE DEMOLITION PROCESS AND ASSUME ALL LIABILITIES FOR SUCH.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO INSURE THAT ITEMS SCHEDULED OR NOTED TO REMAIN, STAY INTACT AND UNDAMAGED.
5. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION OF THE ENTIRE BUILDING FACILITIES STRUCTURE AND COORDINATE EFFORTS WITH THE GENERAL CONTRACTOR. DEMOLITION CONTRACTOR SHALL VERIFY ALL CONDITIONS AND SCOPE OF WORK AS DESCRIBED HERE IN. THESE DOCUMENTS ARE TO BE UTILIZED FOR INTENT ONLY. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR THE FULL EXTENT OF THE DEMOLITION.
6. DRAIN, PURGE OR OTHERWISE REMOVE, COLLECT AND LEGALLY DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER HAZARDOUS MATERIALS AND WASTE BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.
7. CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO THE START OF DEMOLITION.

O. PROTECT EXISTING FINISHES IN EXISTING AREAS TO REMAIN.

DIV. 2 SITEWORK

2.1 Site Clearing

A. SECTION INCLUDES REMOVAL OF SURFACE DEBRIS, TREES, SHRUBS, PLANTLIFF AND TOPSOIL EXCAVATION.

B. LOCATE, IDENTIFY AND PROTECT UTILITIES.

C. PROVIDE PROTECTION OF FEATURES DESIGNATED TO REMAIN AS FINAL LANDSCAPING.

D. PROVIDE PROTECTION OF BENCH MARKS, SURVEY CONTROL POINTS, AND EXISTING STRUCTURES FROM DAMAGE OR DISPLACEMENT.

E. CLEAR AREAS REQUIRED FOR ACCESS TO SITE AND EXECUTION OF WORK.

F. WHERE TREES ARE REMOVED REMOVE STUMPS AND ROOT SYSTEMS TO A DEPTH OF 18". APPLY HERBICIDE TO REMAINS OF STUMPS TO INHIBIT GROWTH, PER MANUUFACTURER AND IN STRICT COMPLIANCE W/ EPA.

G. REMOVE DEBRIS, ROCK AND EXTRACTED PLANT LIFE FROM SITE.

H. STOCKPILE TOPSOIL IN AREA DESIGNATED ON SITE TO A MAXIMUM DEPTH OF 8" AND PROTECT FROM EROSION.

I. REMOVE EXCESS TOPSOIL NOT INTENDED FOR REUSE FROM SITE.

2.2 SEE CIVIL DRAWINGS FOR LOCATION OF BUILDING WORKING POINTS, ROUGH GRADING, ON-SITE UTILITIES, SITE IMPROVEMENTS, SITE RETAINING WALLS & SPECIFIC GENERAL NOTES. THE SOIL REPORT AND CIVIL DRAWINGS SHALL OVERRIDE CONFLICTS WITH SITEWORK NOTED HEREIN.

2.3 Landscape Grading

A. SEE LANDSCAPE DRAWINGS FOR FINAL FINISH GRADES, PLANTING AND IRRIGATION.

B. SECTION INCLUDES FINAL GRADE TOPSOIL FOR FINISH LANDSCAPING.

C. PREPARE SUBGRADE TO RECEIVE TOPSOIL.

D. PLACE TOPSOIL IN ALL AREAS DISTURBED BY CONSTRUCTION TO A NOMINAL DEPTH OF 4". PLACE TOPSOIL DURING DRY WEATHER.

E. ROLL PLACED TOPSOIL.

F. MANUALLY SPREAD TOPSOIL CLOSE TO BUILDING TO PREVENT DAMAGE.

2.4 EXCAVATION/GRADING REQUIREMENTS

A. THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SHALL BE NOTIFIED BY THE GRADING CONTRACTOR THAT GRADING IS TO COMMENCE AND MAKE ALL NECESSARY ARRANGEMENTS FOR FIELD INSPECTOR.

B. ALL BUILDING AREAS SHALL BE EXCAVATED AND RECOMPACTED IN ACCORDANCE WITH THE SOILS REPORT.

C. SOIL EXCAVATION AND RECOMPACTION SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED SOILS ENGINEER. ALL DENSITIES, MOISTURE CONTENT AND TESTING SHALL BE APPROVED BY THE PROJECT SOILS ENGINEER PRIOR TO APPLYING THE FINISH SURFACES INDICATED ON THE DRAWINGS. ONE COPY OF ALL CERTIFICATION AND TESTS SHALL BE SENT TO THE ARCHITECT.

D. ALL FILL AND BACKFILL MATERIAL SHALL BE APPROVED BY THE SOILS ENGINEER.

E. FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE PROJECT SOILS ENGINEER BEFORE THE REINFORCING STEEL OR FRAMES ARE SET.

F. ALL GRADING SHALL CONFORM TO LOCAL ORDINANCES AND STANDARDS.

G. GRADING CONTRACTOR SHALL PROVIDE BARRICADES, LIGHTS, SIGNS AND SAFETY PRECAUTIONS REQUIRED BY GOVERNING CODES AND ORDINANCES.

H. GRADING CONTRACTOR SHALL PROVIDE DUST CONTROL. GRADING CONTRACTOR SHALL COMPLY WITH CITY STANDARDS AND CONDITIONS OF APPROVAL.

I. A THOROUGH SEARCH SHALL BE MADE FOR UNDERGROUND UTILITIES AND STRUCTURES, ETC, WITHIN THE BUILDING SITE. UTILITY CONTRACTOR SHALL REMOVE OR CAP OFF ALL SUCH ITEMS IN ACCORDANCE WITH THE ARCHITECT'S AND/OR ENGINEER(S) INSTRUCTIONS PERTAINING TO EACH DISCOVERY. IN ALL CASES OF THIS TYPE, THE ARCHITECT SHALL BE NOTIFIED BEFORE THE WORK PROCEEDS, EXCEPTING THAT IN ANY EMERGENCY AFFECTING SAFETY OF LIFE, OR OF ADJOINING PROPERTY, THE UTILITY CONTRACTOR SHALL ACT AT ONCE WITHOUT SUCH INSTRUCTIONS TO PREVENT SUCH THREATENED INJURY OR LOSS.

J. DAMAGE TO ANY ADJACENT PROPERTY, STREETS AND THE LIKE CAUSED BY OPERATIONS OF THIS SECTION SHALL BE RESTORED TO ORIGINAL CONDITION WITHOUT ADDITIONAL COST OR LIABILITY TO THE OWNER.

K. EXCAVATE TO EXACT DIMENSIONS, LEVELS, AND ALIGNMENT SHOWN ON THE DRAWINGS. REMOVE ALL MATERIALS ENCOUNTERED.

L. ALL BACKFILL SHALL BE PLACED IN ACCORDANCE TO GRADING RECOMMENDATIONS.

M. COMPACTION BY FLOODING OR JETTING IS STRICTLY PROHIBITED.

N. NO FILL MATERIALS SHALL BE PLACED, SPREAD, OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN WORK IS INTERRUPTED BY HEAVY RAINS, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL TESTS BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE AS SPECIFIED.

O. REMOVE ALL WATER, INCLUDING RAINWATER, ENCOUNTERED DURING THE TRENCHING AND SUBSTRUCTURE WORK, TO AN APPROVED LOCATION BY THE USE OF PUMPS, DRAINS, AND OTHER APPROVED METHODS.

P. REPORT ANY UNUSUAL SOIL CONDITIONS OR VARIATIONS IN THE SOIL TO THE SOILS ENGINEER IMMEDIATELY FOR CONSULTATION AND/OR DIRECTIONS.

Q. ALL AREAS SHALL BE GRADED AND FILLED AS SHOWN ON THE DRAWING TO A TOLERANCE OF PLUS OR MINUS 1/10TH OF ONE FOOT.

R. FINISHED GRADE SHALL BE CLEAN, RAKED, LEVEL, FREE OF ROCKS, VEGETATION AND BUILDING DEBRIS. GRADE SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM BUILDING, WALKS, ETC, FOR A MINIMUM OF TEN FEET AND TO THE NATURAL GRADE. MAKE ADJUSTMENTS REQUIRED TO PROVIDE PROPER SITE DRAINAGE.

S. SECTION INCLUDES BACKFILLING FOR BUILDING FOUNDATIONS AND SLAB ON GRADE AND AGGREGATE BASE COURSE UNDER FOOTING.

T. REFERENCE STANDARDS: ASTM D1556, ASTM D1267, ASTM D2922, AND ASTM D3017.

U. AGGREGATE BASE COURSE: NO. 57 STONE.

V. MAINTAIN AND PROTECT ABOVE AND BELOW GRADE UTILITIES.

W. DO NOT INTERFERE W/45 DEGREE BEARING SPLAY OF FOUNDATION.

X. KEEP ALL EXCAVATIONS FREE FROM WATER AT ALL TIMES. PROVIDE PUMPS, HOSES AND DRAINAGE LINES FOR THIS PURPOSE. WATER REMOVED SHALL DRAIN AWAY FROM SITE, BUT NOT ONTO PRIVATELY OWNED ADJACENT PROPERTIES.

Y. REMOVE LUMPED SUBSOIL, BOULDERS AND ROCK UP TO 1/3 CU. YD.

Z. NOTIFY ARCHITECT OF UNEXPECTED SUBSURFACE CONDITIONS AND DISCONTINUE WORK IN AREA UNTIL NOTIFIED TO RESUME WORK.

1. PROVIDE COMPACTION TESTING IN ACCORDANCE W/ ASTM D698. BACKFILL BENEATH FLOOR SLABS SHALL BE COMPACTED TO 95%OF THE SOILS MAXIMUM DRY DENSITY. (STANDARD PROCTOR).
2. PROTECT EXCAVATIONS TO PREVENT CAVE-IN AND TO KEEP BOTTOM OF EXCAVATIONS ADJACENT TO AND BENEATH FOUNDATIONS FROM FREEZING.
3. RESHAPE/RE-COMPACT FILLS SUBJECTED TO VEHICULAR TRAFFIC DURING CONSTRUCTION.

2.4 Termite Control

A. SECTION INCLUDES SOIL TREATMENT FOR TERMITE CONTROL BELOW GRADE. AT INTERIOR AND EXTERIOR FOUNDATION PERIMETER.

B. CONFORM TO APPLICABLE CODE FOR AUTHORITY TO USE TOXICANT CHEMICALS IN ACCORDANCE W/ EPA.

C. TOXICANT CHEMICAL SHALL BE EPA APPROVED: SYNTHETICALLY COLOR DYED TO PERMIT VISUAL IDENTIFICATION OF TREATED SOIL.

D. APPLY TOXICANT IN ACCORDANCE W/ MANUFACTURERS' INSTRUCTIONS. APPLY EXTRA TREATMENT TO STRUCTURE PENETRATION SURFACES SUCH AS PIPE OR DUCTS, AND SOIL PENETRATIONS SUCH AS GROUNDING RODS OR POSTS.

E. PROVIDE 5-YEAR WARRANTY. WARRANTY: INCLUDE COVERAGE FOR DAMAGE AND REPAIRS TO BUILDING AND BUILDING CONTENTS CAUSED BY TERMITES. REPAIR DAMAGE, RE-TREAT WHERE REQUIRED.

F. LOCATIONS OF TREATMENT: UNDER SLABS-ON-GRADE, CRAWL SPACES AND BOTHE SIDES OF FOUNDATION WALLS.

G. DO NOT PERMIT SOIL GRADING OVER TREATED WORK.

2.5 Site Utilities

A. THE CONTRACTORS ARE REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES AT THE SITE SHOWN OR NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

B. THE UTILITY CONTRACTOR SHALL LOCATE ALL UTILITY CONNECTIONS WITHIN 5 FT. OF THE BUILDING LINE, AND PROTECT UNTIL ALL CONNECTIONS AND TESTING ARE COMPLETED. UTILITY CONTRACTOR SHALL TAG ALL CONNECTION LOCATIONS WHERE FINISH SURFACES ARE PERMANENT. (I.E. CONCRETE, A.C., PAVING ETC).

C. ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.

2.6 Sidewalks

A. ALL CONCRETE SIDEWALKS SHALL SLOPE TO DRAIN AWAY FROM DOORS AND FACE OF BUILDING.

B. ALL CONCRETE WALKS SHALL HAVE A MEDIUM BROOM FINISH U.O.N. ON THE DWGS.

C. SEE CIVIL AND LANDSCAPE DRAWINGS FOR LAYOUT CONFLICTS IN DIMENSIONS OF SITE PAYING.

DIV. 3 CONCRETE

3.1 SEE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL CONCRETE AND REQUIRED REINFORCING.

3.2 SEE FOUNDATION PLAN FOR SLAB DIMENSIONS, DEPRESSIONS.

3.3 NO FLOORS TO BE POURED UNTIL ALL ELECTRICAL AND MECHANICAL INSTALLATIONS HAVE BEEN APPROVED BY THE ARCHITECTS AND GOVERNING AGENCIES.

3.4 Concrete Finishing

A. TROWEL AND RE-TROWEL SLAB FOR SMOOTH FINISH WITH NO TROWEL MARKS SHOWING WHEREVER CONCRETE FLOOR IS EXPOSED.

B. INTERIOR CONCRETE SLABS SHALL BE POURED LEVEL (UNLESS OTHERWISE INDICATED)- 1/8 INCH TOLERANCE ON A 10 FOOT EDGE IN ANY GIVEN DIRECTION.

C. THE FLOOR ADJACENT TO A DOORWAY SHALL BE LEVEL FOR A DISTANCE OF 5 FT FROM THE DOOR IN THE DIRECTION OF THE DOOR SWING AND SHALL EXTEND NOT LESS THAN 12 IN. BEYOND EACH SIDE OF THE DOOR AND SHALL BE NOT MORE THAN 1/2 IN. BELOW LEVEL OF DOORWAY THRESHOLD.

D. COVER ALL CONCRETE SLAB SURFACES WITH CURING PAPER BEFORE POURING ADJACENT CONCRETE SLABS OR ASPHALTIC CONCRETE PAYING. CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SPLASHING OF FRESH CONCRETE.

E. DEPRESS CONCRETE FLOOR SLABS AS REQUIRED FOR FLOOR FINISH MATERIALS AND AS NOTED ON ARCHITECTURAL/AND OR STRUCTURAL DETAILS.

3.5 COVER ALL CONCRETE SLAB SURFACES WITH CURING PAPER BEFORE POURING ADJACENT CONCRETE SLABS OR ASPHALTIC CONCRETE PAVING. CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SPLASHING OF FRESH CONCRETE.

3.6 DEPRESS CONCRETE FLOOR SLABS AS REQUIRED FOR FLOOR FINISH MATERIALS AND AS NOTED ON ARCHITECTURAL AND/OR STRUCTURAL DETAILS.

3.7 PROVIDE 4000 PSI @ 28 DAYS CONCRETE FOR ALL EQUIPMENT PADS AND FENCE POST ANCHORAGE AND ALL EXPOSED SITE CONCRETE.

DIV. 4 MASONRY

REFER TO STRUCTURAL DRAWINGS FOR LOAD BEARING UNIT MASONRY, MASONRY REINFORCEMENT, MORTAR AND GROUT.

4.1 VENEER MASONRY SYSTEM SHALL BE 4" BRICK VENEER AND SHALL COMPLY W/ ASTM C216, GRADE: SW, TYPE: FBS, STANDARD MODULAR SIZE. COLOR(S) AND TEXTURE(S) AS SELECTED BY THE OWNER FROM ALLOWANCE RANGE OF $250.00 PER 1000 COST OF MATERIAL DELIVERED TO SITE. MINIMUM OF (2) COLORS SELECTED.

4.2 PROVIDE UNIT MASONRY SAMPLES SHOWING FULL COLOR AND TEXTURE RANGES AVAILABLE FOR EACH DIFFERENT MASONRY UNIT REQUIRED.

4.3 MORTAR FOR UNIT MASONRY SHALL COMPLY W/ ASTM C 270, PROPORTION SPECIFICATION, TYPE S.

4.5 GROUT FOR UNIT MASONRY SHALL COMPLY W/ ASTM C 476.

4.6 ADJUSTABLE MASONRY – VENEER ANCHORS: PROVIDE 2-PIECE ASSEMBLIES ALLOWING VERTICAL OR HORIZONTAL DIFFERENTIAL MOVEMENT BETWEEN VENEER AND BEARING WALL SUBSTRATE. VENEER ANCHORS SHALL BE HOT DIP GALVANIZED CARBON STEEL WIRE ASTM A 82; WITH ASTM A 153, CLASS B-2 COATING FOR WIRE TIES AND ANCHORS IN EXTERIOR WALLS.

4.7 ADJUSTABLE ANCHORS SHALL BE AS MANUFACTURED BY DURAWALL OR EQUAL.

DIV. 5 METALS

5.1 STEEL PLATES, SHAPES AND BARS SHALL BE SHOP PRIMED AND CONFORM TO ASTM A36.

5.2 EXPOSED METAL SURFACES SHALL BE FREE OF BLEMISHES AND ROUGHNESS.

5.3 SELECT FASTENERS FOR TYPE, GRADE AND CLASS REQUIRED.

5.4 PREVENTION OF ELECTROLYSIS: WHERE THE CONTACT OF DISSIMILAR METAL MAY CAUSE ELECTROLYSIS AND WHERE ALUMINUM WILL CONTACT CONCRETE, MORTAR, OR PLASTER, THE CONTACT SURFACE OF THE METAL SHALL BE SEPARATED USING ONE HEAVY COAT OF ALUMINUM PIGMENTED ASPHALT PAINT ON EACH SURFACE.

5.5 SHOP COAT ALL MISCELLANEOUS STEEL WITH RUST INHIBITIVE PRIMER.

DIV. 6 WOOD AND PLASTICS

6.1 Framing

A. THE FRAMING CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOLTS, NAILS, FRAMING CLIPS, WASHERS, PLATES, HANGERS, ETC. FOR A COMPLETE INSTALLATION WHETHER OR NOT SPECIFIED OR INDICATED ON THE DRAWINGS.

B. IN ADDITION TO PROVIDING ALL LABOR, LUMBER, HARDWARE, & OTHER MATERIALS REQUIRED TO COMPLETE FRAMING TO PLANS & SPECIFICATIONS CONTRACTOR TO INSTALL:

1. WOOD BACKING FOR ALL TOWEL BARS, TOILET PAPER HOLDERS, GRAB BARS, & STAIRWAY HAND RAILS AND MEDICINE CABINETS.
2. FURNISH AND INSTALL ALL REQUIRED EAVE AND GABLE VENTS.
3. ALL ATTIC AND BATHTUB ACCESS PANELS.
4. COORDINATE WITH PLUMBER TO GET BATHTUBS INSTALLED IN BATHROOMS DURING FRAMING PROCESS – FURTHERMORE FRAMER TO BE RESPONSIBLE TO FURRING IN ALL TUBS AS NECESSARY.
5. MASTIC AND CAULK PER REQUIREMENTS OF TITLE 24 RELATED TO FRAMEWORK.
6. INSTALL ALL SOFFITS
7. FURNISH AND INSTALL ALL FIRE-BLOCKING.
8. FURNISH AND INSTALL ALL REGISTER AND OTHER BLOCKING AS REQUIRED FOR THE SATISFACTORY COMPLETION OF HVAC CONTRACTOR'S WORK.

6.2 Wood Blocking

A. PROVIDE WOOD BLOCKING FOR MILLWORK, WOOD WINDOWS AND DOOR JAMBS.

6.3 ALL SILLS SHALL BE PRESSURE TREATED WHITE PINE.

6.4 SCARF JOINT ALL EXPOSED CONTINUOUS WOOD TRIM MEMBERS 45 DEGREES. DO NOT BUTT JOINT.

6.5 WOOD STUDS SHALL BE 2X4 16" O.C. UNLESS NOTED OTHERWISE.

6.6 Firestopping

A. SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER AND SHALL BE USED IN SPECIFIC LOCATIONS AS FOLLOWS:

1. IN EXTERIOR OR INTERIOR STUD WALLS, AT CEILINGS, AND FLOOR LEVELS.
2. IN ALL STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, SO THAT THE MAXIMUM DIMENSION OF ANY CONCEALED SPACE IS NOT OVER 10 FEET.
3. BETWEEN STUDS ALONG IN LINE WITH RUN OF STAIRS ADJOINING STUD WALLS AND PARTITIONS.
4. AROUND TOP, BOTTOM, SIDES AND ENDS OF SLIDING DOOR POCKETS.
5. IN SPACES BETWEEN CHIMNEYS AND WOOD FRAMING, LOOSE NON-COMBUSTIBLE MATERIALS SHALL BE PLACED IN NON-COMBUSTIBLE SUPPORTS OR A METAL COLLAR TIGHTLY FITTED TO THE CHIMNEY AND NAILED TO THE WOOD FRAMING MAY BE USED.
6. ANY OTHER LOCATIONS NOT SPECIFICALLY MENTIONED ABOVE, SUCH AS HOLES FOR PIPES, SHAFTING, BEHIND FURRING STRIPS AND SIMILAR PLACES WHICH COULD AFFORD A PASSAGE FOR FLAMES. FIRESTOPS, WHEN OF WOOD, SHALL BE 2-INCH NOMINAL THICKNESS. IF THE WIDTH OF THE OPENING IS SUCH THAT MORE THAN ONE PIECE OF LUMBER IS NECESSARY THERE SHALL BE TWO THICKNESSES OF 3/4-INCH PLYWOOD. FIRESTOPS MAY ALSO BE OF GYPSUM BOARD, CEMENT, MINERAL WOOL OR OTHER APPROVED NON-COMBUSTIBLE MATERIALS, SECURELY FASTENED IN PLACE. (MINERAL WOOL ONLY IS TO BE USED IN DOUBLE FRAMED COMMON WALLS).

6.7 Fasteners

A. NAILS: GALVANIZED WIRE NAILS

B. SCREWS: CADMIUM PLATED, GALVANIZED AND BRASS.

C. BOLTS: GALVANIZED

6.8 PROVIDE NAILERS, NAILING STRIPS, AND GROUNDS AS NECESSARY AND RIGIDLY SECURE IN PLACE FOR ATTACHMENT OF TRIM, FINISH, AND OTHER WORK. (ALL SHALL BE FIRE RETARDANT TREATED.)

6.9 DIMENSIONAL LUMBER FOR LIGHT FRAMING: PROVIDE "STANDARD" GRADE (2" TO 4" NOM. THICKNESS, 2" TO 4" NOM. WIDTH, 10'-0" AND SHORTER), ANY SPECIES.

6.10 FOR STRUCTURAL FRAMING AND IN WIDTHS GREATER THATN 5" NOM. UINLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING GRADE AND SPECIES COMPLYING WITH THE FOLLOWING STRESS RATINGS:

A. ANY SPECIES AND GRADE COMPLIES WITH THE FOLLOWING REQUIREMENTS FOR SPECIES GROUP AS DEFINED IN TABLE 8.1a OF NFPA NATIONAL DESIGN SPECIFICATION, FOR EXTREME FIBER STRESS IN BENDING "Fb" FOR SINGLE REPETITIVE MEMBERS, AND FOR MODULUS OF ELASTICITY "E".

1. "Fb" OF 1200 PSI FOR SINGLE MEMBER USE AND OF 1400 PSI FOR REPETITIVE MEMBER USE, AND "E" OF 1,700,000 PSI; "Fd" PARALLEL TO GRAIN 1250/1450 PSI; "Fc" PERPENDICULAR TO GRAIN 385 PSI.

6.11 PLYWOOD SHALL CONFORM WITH PS-1 AND BE OF TYPE AND THICKNESS AS INDICATED.

6.12 PROVIDE DRESSED LUMBER S4S, UNLESS OTHERWISE INDICATED.

DIV. 7 THERMAL AND MOISTURE

7.1 Waterproofing

A. CONTRACTOR TO WATERPROOF/FLASH AT ALL EXTERIOR SURFACES.

B. KERF CUT FLASH WITH BITUTHENE ALL BEAMS THAT PENETRATE EXTERIOR WALLS.

7.2 Building Insulation

A. SEE A WALL SECTIONS AND DETAILS FOR BUILDING THERMAL INSULATION.

B. ALL PUBLIC AREA RESTROOMS AND GUEST BATHROOM WALLS AND CEILINGS SHALL BE INSULATED WITH SOUND INSULATION BATTS.

C. INSULATE THE FOLLOWING: EXTERIOR WALLS, BETWEEN JAMBS AND FRAMING, CEILINGS WITH COLD AREAS ABOVE ATTIC ACCESS PANEL, KNEE WALLS ADJACENT TO HEATED SPACE, BETWEEN COMBINATION RAFTER AND CEILING JOIST.

7.3 Roofing

A. CONTRACTOR TO VERIFY THAT ROOF ELEVATIONS SHOWN ON PLANS PROVIDE POSITIVE ROOF DRAINAGE AND THAT THEY CONFORM TO MINIMUM DRAINAGE STANDARDS PRIOR TO ROOFING.

7.4 Weatherproofing

A. ALL EXTERIOR WALL OPENINGS, FLASHING, COUNTERFLASHING AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN SUCH A MANNER TO MAKE THEM WEATHERPROOF. THE JUNCTION OF THE ROOF AND VERTICAL SURFACES SHALL BE FLASHED AND COUNTER-FLASHED IN A MANNER TO MAKE THEM WATERPROOF.

B. ALL OPEN JOINTS IN THE BUILDING EXTERIOR AROUND CONDITIONED SPACES SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER STRIPPED TO ELIMINATE AIR LEAKAGE.

C. PROVIDE A MINIMUM OF 15 LB. FELT AS MOISTURE PROTECTION BEHIND EXTERIOR FINISHES AND TRIM. FELTS TO BE NON-ORGANIC TO ELIMINATE AIR LEAKAGE.

D. ALL FLASHING, COUNTER-FLASHING, AND COPING WHEN OF METAL SHALL BE NOT LESS THAN NO. 24 GAUGE GALVANIZED IRON (U.N.O.).

E. FLASH AND COUNTERFLASH ALL ROOF TO WALL CONDITIONS. FLASH AND CAULK WOOD BEAMS AND OUTLOOKERS PROJECTING THROUGH EXTERIOR WALLS OR ROOF SURFACES.

F. FLASH ALL EXTERIOR OPENINGS WITH APPROVED WATERPROOFING, WHICH CONFORMS TO STANDARD LOCAL AND STATE CODES.

G. PROVIDE FLASHING AND COUNTERFLASHING (WHEN REQUIRED) AND TERMINATE ROOFING TO INSURE NO LEAKAGE OCCURS AT ALL ROOF PENETRATIONS. VALLEY FLASHING SHALL BE PROVIDED OF NO LESS THAN NO. 24 GAUGE GALVANIZED IRON (U.N.O.) AND SHALL EXTEND AT LEAST 12 INCHES FROM THE CENTERLINE EACH WAY AND SHALL HAVE A SPLASH DIVERTED RIB NOT LESS THAN 1 INCH HIGH AT THE FLOW LINE FORMED AS PART OF THE FLASHING. SECTIONS OF FLASHING SHALL HAVE AN END LAP OF NOT LESS THAN FOUR INCHES.

7.5 DRAFTSTOPPING AS SPECIFIED SHALL BE APPROVED WITHIN A CONCEALED FLOOR-CEILING ASSEMBLY FORMED OF NONCOMBUSTIBLE CONSTRUCTION, PER CBC.

7.6 DRAFTSTOPPING AS SPECIFIED SHALL BE PROVIDED WITHIN ATTICS, MANSARDS, OVERHANGS AND SIMILAR CONCEALED SPACES FORMED OF INCOMBUSTIBLE CONSTRUCTION.

7.7 ATTIC VENTILATION: ENCLOSED ATTIC SPACES AND ENCLOSED ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATED SPACE BY VENTILATING OPENINGS PROTECTED AGAINST ENTRANCE OF RAIN.

DIV. 8 DOORS AND WINDOWS NOTES

8.1 SEE DOOR SCHEDULE FOR HARDWARE GROUPS FOR EACH DOOR. SEE SPECIFICATIONS FOR DEFINITIONS OF HARDWARE GROUPS.

8.2 Doors and Frames

A. FRAMES SHALL HAVE MITRED CORNERS, WELDED AND GROUND SMOOTH AT JOINTS. JAMBS SHALL BE PRE-PUNCHED AND REINFORCED FOR ALL FINISH HARDWARE.

B. ALL WOOD DOORS RATED AND NON RATED SHALL HAVE STRAIGHT GRAIN, FREE OF ALL DEFECTS OR KNOTS AND SHALL BE BACK PRIMED AND PAINTED, STAINED, OR FINISHED AS SCHEDULED.

C. WOOD FLUSH-TYPE DOORS SHALL BE 1-3/4" THICK MINIMUM WITH SOLID-CORE CONSTRUCTION, SEE DOOR SCHEDULE FINISH AND RATING.

D. DOOR STOPS OF IN-SWINGING DOORS SHALL BE ONE-PIECE CONSTRUCTION WITH THE JAMB OR JOINTED BY RABBET TO THE JAMB.

8.3 Hardware

A. PANIC HARDWARE SHALL BE PROVIDED ON EXIT DOORS SERVING ROOMS, CORRIDORS, OR STAIRWAYS AS NOTED ON DRAWINGS.

B. ALL PIN-TYPE HINGES WHICH ARE ACCESSIBLE FROM OUTSIDE THE SECURED AREA WHEN THE DOOR IS CLOSED SHALL HAVE NON-REMOVABLE HINGE PINS. IN ADDITION, THEY SHALL HAVE A MINIMUM 1/4 IN. DIAMETER STEEL JAMB STUD WITH 1/4' MINIMUM PROJECTION UNLESS THE HINGES ARE SHAPED TO PREVENT REMOVAL OF THE DOOR IF THE HINGE PINS ARE REMOVED.

C. AN ACCESSIBLE MORTISE OR RIM TYPE CYLINDER LOCK INSTALLED IN A HOLLOW METAL DOOR SHALL BE PROJECTED BY CYLINDER GUARD IF THE CYLINDER PROJECTS BEYOND THE FACE OF THE DOOR OR IS ACCESSIBLE BY GRIPPING TOOLS.

D. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED AND AS SHOWN ON THE DOOR TYPES. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE ABOVE IN EGRESS DIRECTION.

E. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 85 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLATE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OF AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.

F. ALL PRIMARY ENTRANCES SHALL BE ACCESSIBLE, DOORS AND HARDWARE.

G. ALL DOOR THRESHOLDS (WHERE OCCURS) SHALL NOT EXCEED 1/2 INCH IN HEIGHT.

H. EXIT DOOR SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

8.3 Windows

A. ALL GLASS AND GLAZING SHALL CONFORM TO THE IBC.

B. IN LOCATIONS WHICH MAY BE SUBJECT TO HUMAN IMPACT, SUCH AS FRAMELESS GLASS DOORS, GLASS ENTRANCE/EXIT DOORS, SHOWER DOORS, TUB ENCLOSURES, AND STORM DOORS, GLAZING SHALL MEET THE REQUIREMENTS SET FORTH IN THE IBC.

C. ALL GLASS DOORS AND FIXED GLASS LESS THAN 18 INCHES ABOVE THE FLOOR LINE SHALL BE APPROVED SAFETY OR TEMPERED GLASS.

D. WIRE GLASS SPECIFIED IN DOORS OR WINDOWS SHALL BE SET IN A METAL FRAME WITH AN AREA NOT TO EXCEED 1,296 SQ. INCHES PER LITE.

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REVISIONS

A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE
SHEET NAME	GENERAL PLAN INFORMATION
SHEET NO.	GC001

GENERAL NOTES & SPECIFICATIONS

DIV. 8 DOORS AND WINDOWS (CONT.)

8.4 Air Infiltration at Windows and Doors

A. FOR OPENABLE EXTERIOR DOORS (REQUIRED STEEL FIRE–RATED DOORS ARE EXEMPT FROM THESE REQUIREMENTS), AIR INFILTRATION SHALL BE MITIGATED BY FOLLOWING THESE CONSTRUCTION REQUIREMENTS:

1. DOOR HEADS, SILLS, AND JAMBS SHALL HAVE SEALS, ASTRAGALS OR BAFFLES AS REQUIRED TO ELIMINATE AIR INFILTRATION.
2. DOORS MOUNTED ON EITHER THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL SHALL HAVE A MINIMUM ONE–INCH LAP AT EACH JAMB.
3. A CONTINUOUS ANGLE, SEALED GASKET OR WEATHERSTRIPPING SHALL BE USED WITH DOORS REQUIRING VERTICAL TRACTS OR GUIDES (EX. ROLLING INDUSTRIAL DOORS).
4. A CONTINUOUS SEAL OR BAFFLE SHALL BE INSTALLED AT EACH DOOR JAMB FOR DOORS MOUNTED BETWEEN JAMBS.
5. ALL SWING DOORS AND WINDOWS OPENING TO THE EXTERIOR OR TO UNCONDITIONED AREAS SHALL BE FULLY WEATHERSTRIPPED, GASKETED, OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION.

8.5 SWINGING EXTERIOR GLASS DOORS, METAL OR WOOD DOORS WITH GLASS PANELS, SOLID WOOD OR METAL DOORS SHALL BE CONSTRUCTED OR PROTECTED AS FOLLOWS:

8.6 HOLLOW METAL DOORS SHALL BE CONSTRUCTED OF A MINIMUM EQUIVALENT TO SIXTEEN US. GAUGE STEEL AND HAVE SUFFICIENT REINFORCEMENT TO MAINTAIN THE DESIGNED THICKNESS OF THE DOOR WHEN ANY LOCKING DEVICE IS INSTALLED, SUCH REINFORCEMENT BEING ABLE TO RESTRICT COLLAPSING OF THE DOOR AROUND THE LOCKING DEVICE.

8.7 WOOD FLUSH TYPE DOORS SHALL BE I–3/8" THICK MINIMUM WITH SOLID– CORE CONSTRUCTION.

8.8 THE STRIKE PLATE FOR LATCHES AND THE HOLDING DEVICES FOR PROJECTING DEADBOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND THE WALL FRAMING WITH SCREWS NOT LESS THAN 2–1/2 IN LENGTH.

8.9 EQUIP DOORS WITH DEADBOLTS OR DEADLOCKING LATCHES, SEE SPECIFICATIONS.

8.10 DEADBOLTS SHALL CONTAIN HARDENED INSERTS OR EQUIVALENT.

8.11 STRAIGHT DEADBOLTS SHALL HAVE A MINIMUM THROW OF 1' WITH A 5/8 MINIMUM EMBEDMENT.

8.12 HOOD OR EXPANDING LUG DEADBOLT SHALL HAVE A MINIMUM THROW OF 3/4". BOLTS OF LOCKS WHICH AUTOMATICALLY ACTIVATE 2 OR MORE DEADBOLTS SHALL EMBED MINIMUM.

8.13 ALL SWING EXTERIOR WOOD AND STEEL DOORS SHALL BE EQUIPPED AS FOLLOWS: A SINGLE OR DOUBLE DOOR SHALL BE EQUIPPED WITH A DOUBLE OR SINGLE CYLINDER DEADBOLT. THE BOLT SHALL HAVE A MINIMUM PROJECTION OF ONE (1) INCH AND BE CONSTRUCTED SO AS TO REPEL CUTTING TOOL ATTACK. THE DEADBOLT SHALL HAVE AN EMBEDMENT OF AT LEAST THREE FOURTHS (3/4) INCH INTO THE STRIKE RECEIVING THE PROJECTED BOLT. THE CYLINDER SHALL HAVE A CYLINDER GUARD, A MINIMUM OF FIVE PIN TUMBLERS, AND SHALL BE CONNECTED TO THE INNER PORTION OF THE LOCK BY CONNECTING SCREWS OF AT LEAST ONE–FOURTH (1/4") IN DIAMETER.

THE PROVISIONS OF THIS SUBSECTION DO NOT APPLY WHERE (1) PANIC HARDWARE IS REQUIRED, OR (2) AN EQUIVALENT DEVICE IS APPROVED BY THE ENFORCING AGENCY.

8.14 AT ACCESSIBLE LOCATIONS, DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE MOUNTED 30 TO 44 ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 85 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS.

DIV. 9 FINISHES

SEE INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ROOM FINISH GROUPS AND ROOM FINISH SCHEDULE FOR WALL, CEILING AND FLOOR FINISHES.

9.1 Exposed mechanical equipment

A. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS, AND THE LIKE. ALL SUCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED, UNLESS NOTED AS EXPOSED CONSTRUCTION ON DRAWINGS.

B. ALL EXPOSED EXTERIOR METAL FITTINGS, FLASHING, CONDUIT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

9.2 Interior partitions

A. ALL PARTITIONS EXTEND TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE.

B. OFFSET STUDS WHERE REQUIRED, SO THAT FINISH WALL SURFACE WILL BE FLUSH. ALL INTERIOR WALLS AND PARTITIONS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST ALL LOADS TO WHICH THEY ARE SUBJECTED BUT NOT LESS THAN A FORCE OF 5 POUNDS PER SQUARE FOOT APPLIED PERPENDICULAR TO THE WALLS W/L/20 OR L/240 PER METAL OR WOOD STUD SCHEDULE SHOWN ON DRAWING.

9.3 Ceramic tile / Stone tile/ Finished concrete

A. ALL TILE INSTALLATION SHALL BE IN ACCORDANCE WITH ACCEPTED CURRENT INDUSTRY STANDARD WITH THE BEST QUALITY IN CRAFTSMANSHIP.

B. SEE INTERIOR DESIGN DRAWINGS OR TILE LAYOUT OF WALLS AND FLOOR PATTERNS.

C. WHERE FLOOR DRAINS OR FLOOR SINKS OCCUR, ALL FINISH FLOORS SHALL SLOPE TO DRAIN.

D. ALL FLOORS IN PUBLIC AREAS SHALL LBE OF A NON SLIP SURFACE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA)

9.4 Interior finish flame retardant requirements

A. INTERIOR FINISH FLAME RETARDANT REQUIREMENTS. INTERIOR FINISHES AND FLAMEPROOFING MUST CONFORM TO THE REQUIREMENTS.

B. ALL DECORATIVE MATERIALS ARE REQUIRED TO BE MAINTAINED IN A FLAME–RETARDANT CONDITION.

9.5 PROVIDE GALVANIC INSULATION BETWEEN DISSIMILAR METALS.

9.6 IF STORING, USING, OR HANDLING ANY AMOUNTS OF HAZARDOUS MATERIALS, FLAMMABLE/COMBUSTIBLE LIQUIDS, OR CHEMICALS, CONTRACTOR SHALL COMPLY WITH STATE AND LOCAL HAZARDOUS MATERIAL ORDINANCES.

9.7 EXIT DOORS, EXIT SIGNS, FIRE ALARM SENDING STATIONS, FIRE EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED OR OBSTRUCTED BY ANY DECORATIVE MATERIALS

9.8 Painting

A. ALL EXTERIOR SURFACES ARE TO BE PAINTED AS PER THE SCHEDULE ON THE DRAWINGS.

B. PAINTING CONTRACTOR SHALL BE RESPONSIBLE TO APPROVE CONDITION OF ALL SURFACES TO INSURE THAT THEY HAVE BEEN PROPERLY PREPARED FOR PAINTING.

C. ALL COLORS SHALL BE APPROVED BY THE ARCHITECT.

D. ALL ADJACENT WORK SHALL BE PROTECTED AGAINST PAINT SPLATTERING.

E. DRYWALL AT BATHROOMS SHALL RECEIVE A MINIMUM OF TWO COATS OF GLOSS EPOXY ENAMEL WHEN SPECIFIED.

F. UPON COMPLETION OF PAINTING REMOVE ALL PAINT SPOTS AND LEAVE JOB IN A CLEAN ACCEPTABLE MANNER–READY FOR OCCUPANCY.

G. PAINT SHALL BE 'BENJAMIN MOORE' OR EQUAL – REFER TO MANUFACTURER'S SPECIFICATIONS FOR APPLICATION.

H. INTERIOR PAINTING – PAINTING CONTRACTOR WILL:

1. PREPARE ALL NAIL, JOINTS, CRACKS AND GOUGES, BY FILLING AND SANDING SO AS NOT TO BE VISIBLE UPON FINISHED PRODUCT.
2. PAINT BREAKER PANEL BOX DOORS WITH LATEX ENAMEL TO MATCH WALLS.
3. CLEAN–UP ALL SURFACES NOT DESIGNED FOR PAINT LEAVING NO EVIDENCE OF PAINT, PREPARATION OR MASKING MATERIAL.
4. KEEP SURFACES WHICH ARE TO RECEIVE LINOLEUM TYPE FLOORING FREE OF PAINT.
5. SEAL THE TOPS AND BOTTOMS OF ALL DOORS.
6. USE A PVA SEAL COAT ON ALL SURFACES TO RECEIVE PAINT PRIOR TO APPLICATION OF PRIME COAT.
7. PAINT INTERIOR WALLS, DOORS, TRIM, BASEBOARD, ETC. WITH ONE COAT PRIMER AND TWO COATS FINISH (EGGSHELL ENAMEL FINISH).
8. INTERIOR PAINT MATERIAL, COLOR AND FINISH AS APPROVED BY OWNER.
9. PREP, FILL, STAIN, AND SEAL ALL CLUBHOUSE EXPOSED WOOD. METHOD, MATERIAL, AND COLOR TO BE APPROVED BY OWNER.
10. CAULK BASEBOARD TO VINYL FLOORS.

I. EXTERIOR PAINTING – PAINTING CONTRACTOR WILL:

1. PRIME ALL WROUGHT IRON WITH ONE COAT METAL PRIMER AND FINISH WITH ONE COAT OF INDUSTRIAL ENAMEL.
2. PREPARE ALL SURFACES TO BE PAINTED THOROUGHLY BY CLEANING, CAULKING, AND SMOOTHING PRIOR TO RECEIVING PAINT.
3. FINISH EXTERIOR DOOR FACES WITH ONE COAT OF WATER BASED ENAMEL (COLOR AND PAINT TO BE APPROVED BY OWNER) (PRIME ANY UNPAINTED SURFACES BEFORE APPLYING FINISH COATS.)
4. PRIME AND PAINT ALL EXTERIOR UTILITY BOXES, PIPES, VALVES, ELECTRICAL AND GAS PANELS AND METERS.
5. PAINT ROOFING METAL (COLOR TO BE APPROVED BY OWNER).
6. FILL, SAND AND SMOOTH ALL PAINTED SURFACES, INCLUDING NAIL HOLES, KNOT HOLES, CRACKS, JOINTS AND GOUGES SO AS TO NOT BE VISIBLE FOLLOWING APPLICATION OF PAINT.
7. MASK AND PROTECT ALL SURFACES NOT DESIGNATED FOR PAINT.
8. PAINT EXTERIOR DRIP STRIPS, PLASTER REVEALS, VALVES, METER BOXES, MAIL BOXES, EXTERIOR DOOR JAMB, EXPOSED CONDUIT, PIPING, EXTERIOR METALS AND VENTS WITH COLOR APPROVED BY OWNER.
9. ALL EXTERIOR SURFACES TO RECEIVE INDUSTRIAL METAL PRIMERS AND INDUSTRIAL METAL ENAMEL FINISH COAT
10. PREP AND PAINT TRASH ENCLOSURE DOORS AND SUPPORTS.
11. CAULK AND PAINT EAVES WITH 2 COATS OF SOLID BODY STAIN (PRIME AS NECESSARY) STAIN AND COLOR TO BE APPROVED BY OWNER.)
12. PAINT ALL STUCCO VENTS TO MATCH STUCCO.
13. STRIP ALL OIL AND DEBRIS, PRIME AND PAINT GALVANIZED AND BARE METAL SEGMENTS OF THE CARPORT (OWNER TO APPROVE COLOR) CONTRACTOR MUST HAVE OWNER INSPECT AND APPROVE CLEANED STRUCTURE PRIOR TO PAINTING.
14. PREP, FILL, AND STAIN (WITH TWO COATS) ALL EXPOSED WOOD AT CLUBHOUSE.

9.9 Gypsum Wallboard

A. ALL GYPSUM WALLBOARD SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT EDITION OF THE IBC STATE AND LOCAL CODES.

B. GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL WEATHER PROTECTION FOR THE INSTALLATION IS APPROVED.

C. ALL EDGES AND ENDS OF GYPSUM WALLBOARD SHALL OCCUR ON THE FRAMING EDGES EXCEPT THOSE EDGES AND ENDS WHICH ARE PERPENDICULAR TO THE FRAMING MEMBERS. ALL EDGES AND ENDS OF GYPSUM WALLBOARD SHALL BE IN MODERATE CONTACT EXCEPT IN CONCEALED SPACES WHERE FIRE–RESISTIVE CONSTRUCTION OR DIAPHRAGM IS NOT REQUIRED.

D. THE SIZE AND SPACING OF FASTENERS SHALL COMPLY WITH THE CURRENT EDITIONS OF THE IBC STATE AND LOCAL CODES. FASTENERS SHALL BE SPACED NOT LESS THAN 3/ 8" FROM EDGES AND ENDS OF GYPSUM WALLBOARD.

E. FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.

F. DRYWALL CONTRACTOR WILL:

1. INSTALL AND TAPE ALL FIRE WALLS PER APPROVAL OF BUILDING OFFICIAL.
2. INSTALL SOUND–BOARD BETWEEN ALL PARTY WALLS WHERE INDICATED (OWNER TO APPROVE SOUNDBOARD MATERIAL.)
3. INSTALL DRYWALL FOR SOFFITS WHICH WILL BE CONSTRUCTED AFTER THE INITIAL INSTALLATION OF DRYWALL.(APPLICABLE AT FIRE RATED WALLS AND CEILINGS.)
4. FASTEN DRYWALL WITH SCREWS ONLY.
5. INSTALL BULL NOSED CORNERS/CORNER BEAD ON ALL OUTSIDE CORNERS.
6. INSTALL RESILIENT SOUND CHANNEL AS PER PLANS.
7. FURNISH AND INSTALL DRYWALL (GREEN BOARD) ON ALL WALLS BEHIND ALL TUBS.
8. MASK AND PROTECT ALL AREAS NOT DESIGNATED FOR DRYWALL TEXTURE TAKING SPECIAL CARE TO PROTECT TUBS AND TUB WALLS, WINDOWS, DUCT WORK OPENINGS, AND FLOORS WHICH WILL RECEIVE LINOLEUM.
9. TEXTURE ALL WALLS AND CEILINGS WITH A LIGHT SKIP TROWEL FINISH.
10. REMOVE ALL MASKING AND CLEAN UP TEXTURE IN AREAS NOT DESIGNATED FOR TEXTURE.
11. CLEAN UP AND REMOVE ALL EXCESS DRYWALL, TAPE, AND TEXTURE FROM THE CONSTRUCTIONS SITE.
12. CLEAN WINDOW FRAMES AFTER TEXTURE.

9.10 Gyp–crete

A. GYP–CRETE CONTRACTOR IS TO GET INSPECTION AND WRITTEN APPROVAL FROM OWNER PRIOR TO APPLICATION OF GYP–CRETE.

B. ALL GYP–CRETE SEALER IS TO BE APPLIED TO A SMOOTH CLEAN SURFACE FREE OF PAINT, DIRT AND CONSTRUCTION DEBRIS.

C. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO COMPLETE GYP–CRETE AND ACOUSTIMAT II WORK IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

D. KITCHEN AND BATHROOM FLOORS TO RECEIVE ACOUSTIMAT II UNDERLAYMENT PRIOR TO APPLICATION OF GYP–CRETE.

9.11 Exterior Plaster

A. SEE EXTERIOR ELEVATIONS.

B. PLASTER FINISH TO BE APPROVED BY ARCHITECT.

9.12 Finish Carpentry

A. FINISH CONTRACTOR TO FURNISH ALL FASTENING MATERIALS AND INSTALLATION EQUIPMENT REQUIRED TO COMPLETE FINISH WORK PER PLANS AND SPECIFICATIONS.

B. PRIOR TO INSTALLATION OF BASE AT ALL AREAS THAT REQUIRE RESILIENT FLOORING, FINISH CARPENTER WILL CAULK THE WALL AREA BETWEEN THE END OF THE DRYWALL OR END OF THE CABINET AND THE FLOOR. FINISH CONTRACTOR TO FURNISH CAULK.

C. ALL MATERIAL INSTALLED SHALL BE STRAIGHT, PLUMB, TRUE AND LEVEL WITH EVEN MARGINS AT ALL DOORS, JAMBS, CASING AND TRIM. DOORS SHALL OPERATE FREELY AND HAVE A MAXIMUM 1/8" EVEN MARGIN BETWEEN DOOR EDGE BANDING, TRIM, BASE, ETC. SHORTER THAT 6" IS TO BE GLUED IN PLACE.

D. SHELF AND POLE SUPPORTS NOT TO EXCEED 3' ON CENTER. SHELF AND POLE SUPPORTS TO BE BACKED BY SAME MATERIAL AS SHELF LEDGER.

E. ALL EXPOSED SHELF CORNER EDGES TO BE ROUNDED.

F. FINISH CONTRACTOR TO INSTALL:

1. MEDICINE CABINETS.
2. INTERIOR DOORS, CLOSET SHELVING AND POLES, CASING, BASEBOARD, AND INT. AND EXT. DOOR HARDWARE AS DIRECTED BY OWNER.
3. EXTERIOR DOORS, THRESHOLDS, STUCKOMOULD AND WEATHER STRIPPING AT FINISH.
4. TRIM (BASEBOARD MATERIAL) WHERE UNDERSIDE OF KITCHEN FORMICA COUNTERTOP MEETS TOP OF STEM WALL.
5. CABINETS.
6. CLOSET DOORS (MIRROR AND WOOD), SHELVES AND POLES.
7. KITCHEN CABINET SHELVE.S
8. TOILET PAPER HOLDERS AND TOWEL BARS AND GRAB–BARS.
9. SHOWER POLES, AND OTHER SUCH ACCESSORIES.
10. TRIM AND SILLS.

NOTES:

1. UNIT ENTRY DEADBOLT AND UNIT ENTRY LEVER TO BE KEYED ALIKE.
2. DOOR STOPS TO BE INSTALLED AT LOCATIONS AS DIRECTED BY OWNER.
3. ALL STRIKE PLATES TO BE INSTALLED WITH 3" SCREWS.
4. ALL EXT. DOORS TO RECEIVE DEAD BOLTS. ALL BATHROOMS AND BEDROOMS TO RECEIVE PRIVACY LOCKS.
5. EASE EDGES OF DOORS AS NECESSARY TO PREVENT SPLINTERING.
6. ALL HARDWARE TO CONFORM WITH HANDICAP REQUIREMENTS (ADA).
7. DOORS SHALL HAVE DOOR STOPS INSTALLED AT THE BOTTOM KNOB SIDE OF DOOR (NO WALL MOUNTED STOPS) USE HEAVY DUTY TYPE STOPS AS SUPPLIED BY OWNER.
8. TOWEL BARS AND TOILET PAPER HOLDERS TO BE SECURED TO WOOD BACKING WITH MINIMUM 11/2 INCH WOOD SCREWS.

9.13 Carpet

A. LAYOUT RULES: EVERYTHING IS TO BE POWER–STRETCHED. ANY DAMAGE TO PAINT AND BASEBOARDS WILL BE BACK CHARGED RO CONTRACTOR. CARPET IS TO BE LAID OUT WITH CONSIDERATION TO TRAFFIC PATTERNS AND SEAM PLACEMENT. ALL MATERIALS SHALL BE ON THE JOB SITE PRIOR TO THE BEGINNING OF THE INSTALLATION TO ASSURE UNIFORMITY OF THE APPLICATION.

B. PILE DIRECTION: WHERE TWO OR MORE PIECES OF THE SAME CARPET ARE ADJACENT, THE PILE DIRECTION SHALL RUN THE SAME AS IN OTHER AREAS OF THE ROOM. PILE DIRECTION SHALL BE TOWARD THE ENTRANCE.

C. TACK STRIP:

1. FULL LENGTH PIECES OF TACK STRIP SHALL BE INSTALLED AROUND THE WALL PERIMETER WITH PINS POINTING TOWARD THE WALL. BEND TACK STRIP PINS OVER IN CLOSET DOORWAYS, THRESHOLDS, AND OTHER SUCH TRAFFIC AREAS.
2. THE PROPER GULLY SHALL BE SLIGHTLY LESS THAN THE THICKNESS OF THE CARPET, BUT NOT TO EXCEED 3/8–INCH.
3. THE TACK STRIP SHALL BE CUT TO PROPER LENGTHS TO MAINTAIN THE SAME GULLY REGARDLESS OF THE SHAPE OF THE WALL. THE TACK STRIP SHALL BE SECURELY FASTENED TO MAINTAIN THE PROPER STRETCH PROVIDED BY POWER STRETCHING. TWO NAILS OR FASTENING POINTS ARE REQUIRED FOR THE SMALLEST PIECES OF TACK STRIP. CARPET SHALL NOT BE STAPLED TO THE TACK STRIP.

D. SEAMS:

1. TRIMMED SEAM EDGES SHOULD BE SEALED WITH AN APPROPRIATE SEAM SEALER. SEAM CARPETS ACCORDING TO EXACT SPECIFICATIONS OF MANUFACTURER. MAKE SURE THAT ENTIRE SEAM IS GLUED. WHER SEAM TIES INTO TACK STRIP USE EXTRA GLUE.
2. CONTRACTOR IS TO SUBMIT FOR APPROVAL SEAM LAYOUTS TO OWNER PRIOR TO INSTALLATION OF ANY FLOOR COVERING.

E. CARPET TYPE AND COLOR: TO BE APPROVED BY OWNER.

F. PAD: TO BE APPROVED BY OWNER.

1. PADDING SHALL BE SECURELY FASTENED TO THE SUB FLOOR WITH STAPLES OR NONFLAMMABLE CUSHION ADHESIVE. SEAMS SHALL BE SECURED WITH STAPLES OR NONFLAMMABLE CUSHION ADHESIVE. GLUE PAD IF ON CONCRETE; STAPLE IF ON WOOD. IN ADDITION TO GLUE AND/OR STAPLES, VINYL–COVERED FABRIC TAPE SUCH AS DUCT TAPE, OR ADHESIVES, SHALL ALSO BE USED FOR SEAMS ON FOAM CUSHION.
2. ALL CARPET TO LINOLEUM TRANSITION SEAMS SHALL RECEIVE STEEL MOLDING AS APPROVED BY OWNER.

DIV. 10 SPECIALITIES

10.1 FIre Extinguishers

A. PROVIDE PORTABLE CLASS 2A:10BC FIRE EXTINGUISHER LOCATED WITHIN 75' FROM ANY POINT WITHIN THE SPACE AND PROVIDE ADDITIONAL PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY THE FIRE DEPARTMENT. SEE LIFE SAFETY DRAWINGS.

10.2 Signage

A. EXIT SIGNS WHERE NOTED SHALL BE WORDED 'EXIT' IN LETTERS SIX INCHES HIGH AND SHALL CONFORM WITH GOVERNING BUILDING CODES AND REGULATIONS. PROVIDE ILLUMINATED EXIT SIGNS WHERE NOTED AND/ OR REQUIRED BY CODE. ILLUMINATED EXIT SIGNS SHALL BE LIGHTED AND WIRED ON SEPARATE CIRCUIT, WITH BATTERY BACKUP.

10.3 Building Address Signage

A. STREET ADDRESS SHALL CONFORM TO THE FOLLOWING:

1. NUMBERS SHALL BE NO SMALLER THAN APPROVED BY APPLICABLE AGENCY, WIDTH PROPORTIONATE TO HEIGHT.
2. NUMBERS SHALL BE OF A COLOR CONTRAST TO THAT OF THE BACKGROUND UPON WHICH THEY ARE MOUNTED.
3. NUMBERS SHALL BE LOCATED ON:

3.a. A SIGN LOCATED NEAR THE ENTRANCE TO THE BUILDING OR COMPLEX WITH STREET NUMBERS AND NAME OF COMPLEX ON IT , OR

3.b. ON A PROMINENT PORTION OF THE BUILDING NEAREST THE STREET SO THAT THE NAME AND/ OR NUMBER CAN BE EASILY SEEN FROM THE STREET FRONTING THE PROPERTY.

4. THE SIGN SHALL BE KEPT CLEAR OF ALL FOLIAGE.

10.04 Toilet Accessories

A. ALL GRAB BARS SHALL BE 1– 1/2" DIAMETER STAINLESS STEEL TUBE OF WELDED CONSTRUCTION. GRAB BARS IN SHOWERS SHALL HAVE A PEENED FINISH. GRAB BAR AND MOUNTING SHALL BE ABLE TO WITHSTAND A MINIMUM OF 259 LB/FT. IN BENDING, SHEAR AND TENSION AND SHALL NOT ROTATE IN ITS FITTING.

B. FRAMING CONTRACTOR SHALL INSTALL SOLID BLOCKING FOR ALL REQUIRED AND FUTURE GRAB BAR CONNECTIONS,

C. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, ETC PROVIDED ON OR WITHIN WALL, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

DIV. 15 MECHANICAL NOTES

15.1 SEE MECHANICAL DRAWINGS FOR MECHANICAL, PLUMBING AND FIRE PROTECTION NOTES.

15.2 Access Panels

A. FRAMING CONTRACTORS SHALL FRAME AND DRYWALL CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED BY PLUMBING AIR CONDITIONING AND OTHER INSTALLERS AS REQUIRED BY CODE.

B. FRAMING CONTRACTORS SHALL SUBMIT LOCATION OF ALL ACCESS PANELS PRIOR TO ARCHITECT FOR REVIEW– PRIOR TO INSTALLATION.

C. NO ACCESS PANELS TO BE LOCATED IN PUBLIC AREA WALLS.

15.3 NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED.

15.4 THE CONCRETE CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK, TRENCHES SLEEVES, SPECIAL BOLTING FOR EQUIPMENT CONDUITS, ETC. THROUGH AND UNDER CONCRETE SLABS PRIOR TO POURING OF FOOTING AND SLABS.

15.5 Fire Protection Systems

A. PROVIDE FIRE DEPARTMENT KNOX–BOX' KEY ENTRY SYSTEMS FOR EACH BUILDING OR PORTION THEREOF AS DIRECTED BY THE LEGAL GOVERNING FIRE DEPT, THAT WILL HOUSE KEYS TO UNLOCK DOORS AT ALL TENANT ENTRIES. ALSO PROVIDE KNOX SYSTEM PADLOCK ON ALL SPRINKLER SYSTEM VALVE (AS DIRECTED BY LEGAL GOVERNING FIRE DEPT.)

B. FIRE DAMPERS SHALL BE PROVIDED WHERE AIR DUCTS PENETRATE FIRE– RATED WALLS OR CEILINGS.

C. ALL PLUMBING AND HEATING WORK SHALL CONFORM TO GOVERNING CODES.

D. HVAC CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE VENTS FOR ALL GAS APPLIANCES.

15.6 Plumbing

A. PLUMBING CONTRACTOR SHALL INSULATE ALL PLUMBING PIPING IN ATTICS. CANOPIES, AND WALLS. SEE PLUMBING DRAWINGS AND SPECS.

B. ALL PLUMBING PIPING EXPOSED TO THE EXTERIOR SHALL BE INSULATED FROM BUILDING AND EXTENDED 6' BELOW FROST LINE. SEE PLUMBING DRAWINGS AND SPECS.

C. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS TO COMPLETE THE PLUMBING AS PER PLANS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO: LAYOUT, TRENCHING, UTILITY CONNECTIONS, BACKFILL, COMPACTION TO A MINIMUM OF 90% DENSITY, ROUGH–IN INSTALLATIONS, TOP OUT AND FINISH PLUMBING INCLUDING CONNECTIONS EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS. ALSO INCLUDES BUT NOT LIMITED TO: CONNECTIONS TO HEATING/COOLING UNITS (INCLUDING DRAINS), WASHER/DRYER UNITS, WATER HEATERS, KITCHEN RANGES AND POOL EQUIPMENT FURNISHED BY OTHERS.

D. PLUMBING CONTRACTOR TO PROVIDE:

1. JACKS FOR OWN TRADE TO BE INSTALLED BY ROOFER.
2. PRIOR TO COMMENCEMENT OF CONSTRUCTION, TEMPORARY WATER CONNECTIONS SUFFICIENT TO MEET THE NEEDS OF THE PROJECT.
3. CONNECTIONS FOR FUTURE INSTALLATION OF INDIVIDUAL WATER METERS IN EACH UNIT.
4. AND FURNISH RECESSED FAUCET BOX (AS APPROVED BY OWNER) AT LAUNDRY AREAS.
5. CONNECTIONS TO UTILITY MAINS INSTALLED BY UTILITY CONTRACTOR AT POINTS COORDINATED WITH SAME.
6. PLUMBING AND GAS LINES TO POOL EQUIPMENT AREA.
7. FURNISH ANY CAULKING AS REQUIRED BY CODE.

15.7 Heating Ventilating and Air Conditioning

A. REFER TO MECHANICAL PLAN FOR SPECS AND NOTES.

B. AIR CONDITIONING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS TO COMPLETE THE HEATING, AIR CONDITIONING, AND OTHER ASSOCIATED SHEETMETAL AND DUCTING WORK PER PLANS AND SPECIFICATIONS AND AS FURTHER DESCRIBED BELOW:

1. THERMOSTATS AND WIRING.
2. REGISTERS WHITE REGISTERS
3. DUCTING: THERM–A–FLEX (MKC) INSULATED HEATING DUCT
4. AIR CONDITIONING CONDENSER UNIT AND CONDENSATE LINES:
5. DRYER VENTS: INCLUDE BIRD GUARDS
6. RANGE EXHAUST DUCT
7. COMBUSTION AIR VENTS TO LAUNDRY AND WATER HEATER ROOMS PER PLANS AND TO THE SATISFACTION OF THE LOCAL BUILDING OFFICIAL.

C. CONTRACTOR SHALL:

1. PURCHASE AND INSTALL DRYERBOXES FROM "THE DRYERBOX.COM"
2. INCLUDE CONNECTIONS TO AND FROM VENTING EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS INCLUDING BUT NOT LIMITED TO BATHROOM EXHAUST FANS WHICH

15.8 Insulation

1. DUCT WORK INSULATION:

A. SERVICE: AIR CONDITIONING AND HEATING SUPPLY, FRESH (OUTSIDE) AIR IN CONDITIONED SPACES– INSULATE ENTIRELY. MATERIAL : 0.75LB/CU. FT. FLEXIBLE FIBERGLASS 1½" THICK FLAME RESISTANT ALUMINUM KRAFT FOIL JACKET.
B. SERVICE: AIR CONDITIONING AND HEATING SUPPLY AND RETURN, FRESH (OUTSIDE) AIR IN UNCONDITIONED SPACES– INSULATE ENTIRELY. MATERIAL 0.75LB/CU.FT. FLEXIBLE FIBERGLASS 2" THICK WITH FLAME RESISTANT ALUMINUM KRAFT FOIL JACKET. (R6 MINIMUM)

ALL INSULATION: RATING NOT TO EXCEED 25 FLAME, 50 SMOKE AND RATED FOR USE IN RETURN AIR PLENUM.

15.9 "Low Pressure" Ductwork and Accessories

1. CONSTRUCT RECTANGULAR DUCT OF FIRST QUALITY MATERIALS IN ACCORDANCE WITH SMACNA–HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE. CROSSBREAK EXCEPT WHERE RIGID INSULATION IS SPECIFIED CONSTRUCT ROUND DUCT ACCORDING TO RECOMMENDATIONS OF ASHRAE GUIDE. ROUND DUCT SHOULD BE GALVANIZED SPIRAL UNLESS NOTED OTHERWISE. LONGITUDINAL LOCK– SEAM DUCT IS NOT ACCEPTABLE.
2. KEEP ALL DUCTWORK, DUCT SYSTEM AND EQUIPMENT OPENINGS COVERED WITH ADHESIVE DUCT PROTECTIVE WRAP LIKE VENTURE TAPE 1512, UNTIL SYSTEM START–UP. THIS IS TO PREVENT INTRUSION OF CONSTRUCTION DIRT AND DEBRIS INTO THE DUCT SYSTEM AND HVAC EQUIPMENT.
3. PHENOLIC DUCT BY PAL–DUCT OR KOOL–DUCT IS AN ACCEPTABLE ALTERNATIVE TO SHEET METAL DUCT AND INSULATION IN CONCEALED SPACES. USE FLANGED JOINTS. SUBMIT DETAILED DUCT DRAWINGS FOR ENGINEER VIEW.
4. SUPPORT HORIZONTAL DUCT IN WALL WITH BANK IRON STRAP HANGER IF WIDTH IS UNDER 18" AND WITH SHELF TYPE BRACKET IF OVER 18".
5. SUPPORT DUCTS SUSPENDED FROM ROOF STRUCTURE WITH BAND–TYPE HANGERS IF MAXIMUM IS INSIDE 48" AND WITH TRAPEZE–TYPE HANGERS IF OVER 48".

FITTINGS:

A. ELBOWS (LESS THAN 24" WIDE): USE STANDARD RADIUS ELBOW. RADIUS SHALL BE 1.5 TIMES WIDTH OF FITTINGS.

B. ELBOWS (24" WIDE AND OVER): SHALL BE SQUARE ELBOWS WITH TURNING VANES. ELBOWS LESS THAN 36" WIDE SHALL HAVE SINGLE– BLADED VANES. ELBOWS 36" WIDE AND OVER SHALL HAVE DOUBLE– BLADED VANES IN AIRFOIL PATTERN.

C. MAIN TEE CONNECTIONS SHALL BE RADIUS OR SQUARE DEPENDING ON THE SIZE DUCT REDUCED TO ADJUSTABLE SPLITTER DAMPER SHALL BE PROVIDED AHEAD OF TEE.

D. BRANCH TEE CONNECTIONS SHALL BE 45° BRANCH TAKE–OFFS. PROVIDE BALANCING DAMPERS IN BRANCHES UNLESS OTHERWISE DIRECTED TO DELETE THEM.

E. TRANSITIONS, RAISES AND DROPS SHALL BE BUILT SO THAT CHANGE IN DIRECTION OF SIDE OF DUCT DOES NOT EXCEED 30° ANGLE TO PROJECTED SAME SIDE.

2. PROVIDE FLEXIBLE CONNECTIONS (FC) AT EACH INLET AND OUTLET DUCT CONNECTION TO EVERY PIECE OF FAN EQUIPMENT. FABRIC FASTENED TO METAL WITH DOUBLE LOCK SEAM. FABRIC FOR ORDINARY HVAC USES TO BE WATERPROOF, FIRE RETARDANT AND SUITABLE FOR TEMPERATURE OF 200°F. MANUFACTURERS: DURO–DYNE, VENTFABRICS OR EQUAL.
3. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5'0". FLEXIBLE DUCT SHALL NOT BE USED AS AN ELBOW. PROVIDE A SHEET METAL ELBOW AT DIFFUSER NECK WHERE TAP IS NOT OUT OF THE BOTTOM OF THE SUPPLY MAIN.
4. FURNISH AND INSTALL BALANCING DAMPERS FOR EACH SUPPLY AIR RUNOUT AND AT ADDITIONAL LOCAL AS SHOWN ON THE DRAWINGS. CONSTRUCTION TO BE GALVANIZED STEEL, TWO GAUGES HEAVIER THAN DUCT. SHAFT SHALL BE STEEL WITH BRASS BEARINGS. BLADES SHALL NOT EXCEED 12" WIDE AND 48" LONG. FRAMES OF SAME GAUGE METAL ARE REQUIRED WHERE TWO BLADES OR MORE ARE USED.
5. BALANCING DAMPERS TO HAVE LOCK–TYPE DAMPER OPERATE AND LINKAGE AS BEST SUITS CONSTRUCTION AND ACCESS CONDITIONS. DAMPERS WITH ACCESSIBLE OPERATORS TO BE PROVIDED WITH LOCKING DAMPER QUADRANTS COMPLETE WITH LOCKING NUTS AND GRADUATED SCALE. DAMPERS WITH NON–ACCESSIBLE OPERATORS PROVIDED WITH YOUNG SERIES 335 ADJUSTABLE COVER REGULATORS.
6. DUCT SEALING: COMPLY WITH SMACNA STANDARD DUCT SEALING REQUIREMENTS FOR CLASS "A" DUCTS FOR ALL O/A, SUPPLY RETURN AND EXHAUST DUCTWORK.

A. WATER–BASED JOINT AND SEAM SEALANT:

A.1. APPLICATION METHOD: BRUSH ON.

A.2. SOLID CONTENT: MINIMUM 65%

A.3. SHORE A HARDNESS: MINIMUM 20.

A.4. WATER RESISTANT.

A.5. MOLD AND MILDEW RESISTANT.

A.6. VOC: MAXIMUM 75G/L (LESS WATER).

A.7. MAXIMUM STATIC–PRESSURE CLASS: 10–INCH WG (2500PA), POSITIVE AND NEGATIVE.

A.8. SERVICE: INDOOR OR OUTDOOR.

A.9. SUBSTRATE: COMPATIBLE WITH GALVANIZED SHEET STEEL (BOTH PVC COATED AND BARE), STAINLESS STEEL, OR ALUMINUM SHEETS.

A.10. TAE SHALL NOT BE ACCEPTABLE.

A.11. TOTAL DUCT LEAKAGE RATES SHALL NOT EXCEED 10%.

B. FIRE DAMPERS: AT EACH PENETRATION THROUGH FIRE– RATED PARTITIONS, PROVIDE FIRE DAMPERS WHERE INDICATED ON DRAWINGS TO MEET OR EXCEED BARRIER RATING.

C. FIRE DAMPERS SHALL BE TYPE "B", U.L. CLASSIFIED AND MEET ALL NFPA CRITERIA FOR PRIMARY FIRE DAMPERS FRAME SHALL BE 20 GAUGE MINIMUM. BLADES SHALL BE 24 GAUGE MINIMUM. BLADES SHALL NOT INFRINGE ON DUCT FREE ARE FOR AIRFLOW. FUSIBLE LINK SHALL BE RATED AT 165°F. CLOSURE SPRINGS SHALL BE 301 STEEL. FINISH SHALL BE MILL.

15.10 Smoke Damper

A. FABRICATE IN ACCORDANCE WITH NFPA 90A AND UL 5555, AND AS INDICATED.

B. NORMALLY CLOSE SMOKE VENT DAMPER: CURTAIN TYPE, OPENING BY GRAVITY UPON ACTUATION OF ELECTRO THERMAL LINK, FLEXIBLE STAINLESS STEEL BLADE EDGE SEALS TO PROVIDE CONSTANT SEALING PRESSURE.

C. NORMALLY OPEN SMOKE VENT DAMPER: CURTAIN TYPE, CLOSING UPON ACTUATION OF ELECTRO THERMAL LINK, FLEXIBLE STAINLESS STEEL BLADE EDGE SEALS TO PROVIDE CONSTANT SEALING PRESSURE, STAINLESS STEEL SPRINGS WITH LOCKING DEVICE ENSURE POSITIVE CLOSURE FOR UNITS MOUNTED HORIZONTALLY

DIV. 16 ELECTRICAL NOTES

16.1 REFER TO ELECTRICAL PLANS FOR SPECS AND NOTES.

16.2 ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIAL AND LABOR REQUIRED TO COMPLETE ELECTRICAL INSTALLATION PER PLANS AND SPECIFICATIONS.

16.3 ELECTRICAL CONTRACTOR SHALL:

A. FURNISH AND INSTALL CABLE TELEVISION AND HIGHSPEED INTERNET ACCESS AND TELEPHONE SYSTEMS.

B. INSTALL LIGHT BULBS FOR LIGHT FIXTURES AS PROVIDED BY OWNER.

C. FURNISH AND INSTALL ALL SWITCHES. RECEPTACLES AND COVER PLATES (WHICH ARE TO BE WHITE) INCLUDING THOSE FOR TELEPHONE AND INTERNET AND TELEVISION.

D. INSTALL ALL LIGHTING FIXTURES (INCLUDING ANY FOUNDATIONS FOR EXTERIOR FIXTURES).

E. INSTALL SMOKE DETECTORS.

F. WIRE BATHROOM EXHAUST FANS INSTALLED BY OTHERS.

G. FURNISH AND INSTALL DOOR CHIMES.

H. FURNISH AND INSTALL UNDERGROUND WIRING IN CONDUIT FOR EXTERIOR LIGHTING.

I. INSTALL EXTERIOR LIGHTING STANDS OR POLES IN HOLES FILLED WITH CONCRETE.

J. INSTALL POWER TO ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS REQUIRING ELECTRICAL POWER(EXAMPLE PROVIDE PIGTAILS ON GARBAGE DISPOSALS ETC.).

K. FURNISH AND INSTALL WIRING FROM CLOSEST TEMPORARY POWER POLE TO OFFICE TRAILER (INCLUDES CABLE DROP IF NECESSARY).

L. INSTALL CONNECTIONS TO UTILITY MAINS INSTALLED BY UTILITY CONTRACTOR AT POINTS COORDINATED WITH SAME.

M. INSTALL ALL COMMON AREA SITE LIGHTING WHICH SHALL BE CONTROLLED WITH A PHOTO CELL SWITCH.

N. LIMIT HEIGHT OF EXTERIOR A/C–DISCONNECT BOXES TO 18" ABOVE GRADE.

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REVISIONS

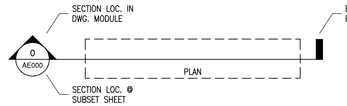
A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE
SHEET NAME	GENERAL PLAN INFORMATION
SHEET NO.	GC002

ARCHITECTURAL REFERENCE SYMBOLS

SECTION INDICATOR: REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION.



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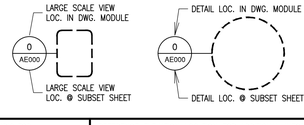

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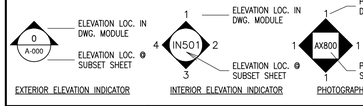

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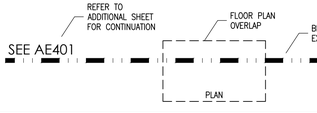
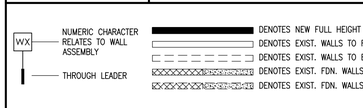
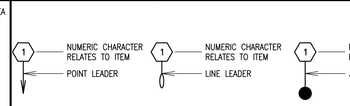


DATUM INDICATORS: REFERENCE BUILDING PLANS FOR ADDITIONAL INFORMATION.

WALL TYPE INDICATORS: REFERENCE RATED ASSEMBLIES SHEET FOR ADDITIONAL INFORMATION.



KEYNOTE INDICATORS: REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION.



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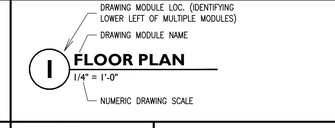

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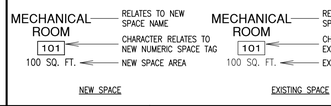

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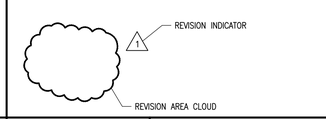

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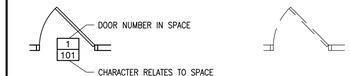

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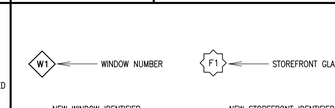

ARCHITECTURAL ABBREVIATIONS

@	AT	FLR	FLOOR	PERM	PERIMETER
AB	ANCHOR BOLT	FLRG	FLOORING	PIP	POURED IN PLACE
ABS	AIR BARRIER SYSTEM	FDN	FOUNDATION	PLAM	PLASTIC LAMINATE
ABV	ABOVE	FO	FACE OF	PLAS	PLASTER
A/C	AIR CONDITIONING	FOC	FACE OF CONCRETE	PLYWD	PLYWOOD
ACP	ACOUSTICAL CEILING PANEL	FOM	FACE OF MASONRY	PLWD	PLASTIC LAMINATE WOOD
ACT	ACOUSTICAL CEILING TILE	FR	FIRE RATED	POLY	POLYETHYLENE
ACW	ALUMINUM CLAD WINDOW	FRA	FIRE RATED ASSEMBLY	PP	PORCELAIN PAVER
ACWP	ALUMINUM COMPOSITE WALL PANEL	FRM	FRAME	PPS	POWER PROJECTION SCREEN
ADJ	ADJUSTABLE	FRP	FIBERGLASS REINFORCED PLASTIC	PPT	PRESSURE PRESERVATIVE TREATED
AFF	ABOVE FINISHED FLOOR	FRT	FIRE RETARDANT TREATED	PR	PAIR
AHU	AIR HANDLING UNIT	FT	FOOT	PREFAB	PREFABRICATED
ALT	ALTERNATE	FTG	FOOTING	PREFIN	PREFINISHED
ALUM	ALUMINUM	FURN	FURNITURE	PREP	PREPARE/PREPARATION
A-PT	ACCENT PAINT	FVC	FIRE VALVE CABINET	PS	PROJECTOR SCREEN
AP	ACCESS PANEL	FWC	FABRIC WALL COVERING	PSB	PENCIL SHARPENER BLOCK
APC	ARCHITECTURAL PRECAST CONCRETE	GA	GAUGE	PSF	POUNDS PER SQUARE FOOT
AS	ALUMINUM STOREFRONT	GAL	GALLON	PSI	POUNDS PER SQUARE INCH
ATTN	ATTENUATION	GALV	GALVANIZED	PT	PAINT
AUTO	AUTOMATIC	GB	GYPSUM BOARD	PTN	PARTITION
AVG	AVERAGE	GFRG	GLASS REINFORCED GYPSUM	PTS	PNEUMATIC TUBE SYSTEM
AW	ALUMINUM WINDOW	GFRC	GLASS REINFORCED CONCRETE	PVC	POLYVINYL CHLORIDE
AWC	ACOUSTICAL WALL COVERING	GL	GLASS	PVMT	PAVEMENT
AWP	ACOUSTICAL WALL PANEL	GL-BLK	GLASS BLOCK	PVWC	PERFORATED VINYL WALL COVERING
BD	BOARD	GPL	GYPSUM PLASTER	QT	QUARRY TILE
BF	BARRIER FREE	GPM	GALLONS PER MINUTE	QTY	QUANTITY
BLDG	BUILDING	GRAN	GRANITE	R	RISER
BLK	BLOCK	GSU	GLAZED STRUCTURAL UNIT	RA	RETURN AIR
BLKG	BLOCKING	GT	GLASS TILE	RAD	RADIUS
BM	BENCH MARK	GWT	GLAZED WALL TILE	RB	RUBBER BASE
BRG	BEARING	GYP	GYPSUM	RCP	REFLECTED CEILING PLAN
BSMT	BASEMENT	H	HIGH	RD	ROOF DRAIN
BUR	BUILT-UP ROOF	HB	HOSE BIB	RECP	RECEPTACLE
C	CARPET	HBD	HARD BOARD	REF	REFRIGERATOR
CAB	CABINET	HDR	HEADER	REINF	REINFORCING
CB	CHALKBOARD	HDWR	HARDENER	REM	RECESSED ENTRY MAT
CCTV	CLOSED CIRCUIT TELEVISION	HDWD	HARDWOOD	RES	RESINOUS FLOORING
CFMF	COLD FORMED METAL FRAMING	HDWR	HARDWARE	RFG	ROOFING
CG	CORNER GUARD	HM	HOLLOW METAL	RFT	RUBBER FLOOR TILE
CIPC	CAST IN PLACE CONCRETE	HORIZ	HORIZONTAL	RH	RIGHT HAND
CJ	CONTROL JOINT	HP	HORSEPOWER	RL	RAIN LEADER
CLG	CEILING	HPFP	HIGH PERFORMANCE FLOOR PAINT	RM	ROOM
CLR	CLEAR	HR	HOUR	RO	ROUGH OPENING
CM	CENTIMETER	HT	HEIGHT	RFT	RUBBER FLOOR TILE
CMBD	CEMENT BOARD	HTG	HEATING	RSR	RESILIENT STAIR RISER
CMU	CONCRETE MASONRY UNIT	HTR	HEATER	RST	RESILIENT STAIR TREAD
CO	CLEAN OUT	HVAC	HEATING, VENTILATION, AIR CONDITIONING	RT	RIGHT
COL	COLUMN	ID	INSIDE DIAMETER	RTU	ROOFTOP UNIT
CONC	CONCRETE	IN	INCH	R/W	RIGHT OF WAY
CONST	CONSTRUCTION	INCL	INCLUDE	SAB	SOUND ATTENUATION BLANKET
CONT	CONTINUOUS	INFO	INFORMATION	SCH	SCHEDULE
CONTR	CONTRACTOR	INST	INSTALLATION	SF	SQUARE FOOT
CORR	CORRIDOR	INSUL	INSULATION	SGB	SECURITY GYPSUM BOARD
CR	CLASSROOM	INT	INTERIOR	SHM	SECURITY HOLLOW METAL
CRS	COURSE	IRWC	IMPACT RESISTANT WALL COVERING	SHTG	SHEATHING
CSMU	CAST STONE MASONRY UNIT	IWB	INTERACTIVE WHITE BOARD	SIM	SIMILAR
C-TILE	CARPET TILE	JAN	JANITOR	SFRM	SPRAYED FIRE RESISTANT MATERIAL
CT	CERAMIC TILE	JC	JANITOR CLOSET	SPEC	SPECIFICATION
CTSK	COUNTERSINK	JCT	JUNCTION	SPF	SPRAYED POLYURETHANE FOAM
CUFT	CUBIC FOOT	JT	JOINT	SPR	SPRINKLER
CUYD	CUBIC YARD	KO	KNOCKOUT	SQ	SQUARE
CW	CURTAIN WALL	L	LENGTH/LONG	SRD	SECONDARY ROOF DRAIN
CWFD	CEMENTITIOUS WOOD FIBER DECK	LAB	LABORATORY	SS	STAINLESS STEEL
D	DEPTH, DEEP	LAHJ	LOCAL AUTHORITY HAVING JURISDICTION	ST	STREET
DBL	DOUBLE	LAM	LAMINATE	STC	SOUND TRANSMISSION COEFFICIENT
DEMO	DEMOLITION	LAV	LAVATORY	STD	STANDARD
DEPT	DEPARTMENT	LBS	POUNDS	STL	STEEL
DF	DRINKING FOUNTAIN	LGMF	LIGHT GAUGE METAL FRAMING	STRUC	STRUCTURAL
DG	DOOR GRILLE	LH	LEFT HAND	SUSP	SUSPENDED
DIAG	DIAGONAL	LIN	LINOLEUM	SV	SHEET VINYL
DIA	DIAMETER	LKR	LOCKER	SWM	SECURITY WOVEN MESH
DIM	DIMENSION	LLH	LONG LEG HORIZONTAL	SY	SQUARE YARD
DIV	DIVISION	LLV	LONG LEG VERTICAL	SYM	SYMMETRICAL
DL	DOOR LOUVER	LMC	LINEAR METAL CEILING	T	TREAD
DN	DOWN	LPS	LAMINATE PANEL SYSTEM	TB	TACK BOARD
DP	DAMP PROOFING	LT	LIGHT	TEL	TELEPHONE
DR	DISPLAY RAIL	LVR	LOUVER	T&G	TONGUE & GROOVE
DS	DOWNSPOUT	M	METER	THHD	THRESHOLD
DTL	DETAIL	MACH	MACHINE	THK	THICK
DWG	DRAWING	MATL	MATERIAL	TO	TOP OF
DWR	DRAWER	MAS	MASONRY	TOS	TOP OF STEEL
EA	EACH	MAX	MAXIMUM	TOW	TOP OF WALL
EF	EXHAUST FAN	MB	MARKER BOARD	TR	TREATED
EFS	EXTERIOR FINISH SYSTEM	MBL	MARBLE	TS	TACK STRIP
EIFS	EXTERIOR INSULATION FINISH SYSTEM	MCP	METAL CEILING PANEL	TV	TELEVISION
EJ	EXPANSION JOINT	MECH	MECHANICAL	TYP	TYPICAL
EL	ELEVATION	MED	MEDIUM	UC	UNDERCUT
ELAS	ELASTOMERIC	MEMB	MEMBRANE	UG	UNDERGROUND
ELEC	ELECTRICAL	MFR	MANUFACTURER	UH	UNIT HEATER
ELEV	ELEVATION	MIF	MULTICOLOR INTERIOR FINISHING	UNO	UNLESS NOTED OTHERWISE
EMER	EMERGENCY	MIN	MINIMUM	VCT	VINYL COMPOSITION TILE
EPS	EXPANDED POLYSTYRENE	MIR	MIRROR	VDB	VISUAL DISPLAY BOARD
EPX	EPOXY	MISC	MISCELLANEOUS	VERT	VERTICAL
EPX PT	EPOXY PAINT	MLDG	MOULDING	VEST	VESTIBULE
EQ	EQUAL	MM	MILLIMETER	VR	VAPOR RETARDER
EQUIP	EQUIPMENT	MO	MASONRY OPENING	VRB	VINYL/RUBBER BASE
EST	ESTIMATE	MPS	MANUAL PROJECTION SCREEN	VT	VINYL TILE
ETR	EXISTING TO REMAIN	MR	MAP RAIL	VTR	VENT THROUGH ROOF
EWC	ELECTRIC WATER COOLER	MT	MOUNT	VWC	VINYL WALL COVERING
EXH	EXHAUST	MTD	MOUNTED	W	WIDE
EX	EXISTING	MTG	MOUNTING	W/	WITH
EXP	EXPANSION	MTL	METAL	WB	WOOD BASE
EXT	EXTERIOR	MTLB	METAL BASE	WC	WATER CLOSET
F	FURNACE	MWP	MEMBRANE WATERPROOFING	WCP	WOOD CEILING PANEL
FAAF	FLUID APPLIED ATHLETIC FLOORING	NA	NOT APPLICABLE	WD	WOOD
FB	FACE BRICK	NIC	NOT IN CONTRACT	WD-PNL	WOOD PANELING
FD	FLOOR DRAIN	NOM	NOMINAL	WDW	WINDOW
FE	FIRE EXTINGUISHER	NRC	NOISE REDUCTION COEFFICIENT	WH	WATER HEATER
FEC	FIRE EXTINGUISHER CABINET	NTS	NOT TO SCALE	W/O	WITHOUT
FF	FINISHED FLOOR	OC	ON CENTER	WP	WATERPROOFING
FFE	FINISHED FLOOR ELEVATION	OD	OUTSIDE DIAMETER	WPT	WORKING POINT
FGL	FIBERGLASS	OVHD	OVERHEAD	WR	WATER RESISTANT
FGRC	FIBERGLASS REINFORCED CONCRETE	OPNG	OPENING	WSCT	WAINSCOT
FH	FIRE HYDRANT	OPP	OPPOSITE	WSF	WOOD SPORTS FLOORING
FHC	FIRE HOSE CABINET	OPP HD	OPPOSITE HAND	WT	WEIGHT
FHVC	FIRE HOSE VALVE CABINET	PC	PRECAST	WWF	WELDED WIRE FABRIC
FIN	FINISHED	PCP	PORTLAND CEMENT PLASTER	WWM	WELDED WIRE MESH
		PERF	PERFORATED	YD	YARD

GENERAL NOTES & SPECIFICATIONS

REQUIREMENTS OF REGULATORY AGENCIES

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODE, SPECIFICATIONS, LOCAI ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS.
2. IN CASE OF A DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY SUCH DIFFERENCES.
3. NON COMPLIANCE: SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCE, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL CONSITS ARISING IN CORRECTING THE DEFICIENCIES.
4. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF STATE PLUMBING AND MECHANICAL CODES.
5. EXCEPT AS OTHERWISE SPECIFIED HEREIN, ALL PIPING WORK AND MATERIAL ARE TO CONFORM TO THE AMERICAN STANDARDS ASSOCIATION CODE FOR PRESSURE PIPING.
6. PERMITS: CONTRACTOR SHALL PAY FOR ALL BUILDING PERMITS REQUIRED BY WORK AND PERMITS. FOR OPENING STREET AND FOR CONNECTION TO VARIOUS UTILITIES, INCLUDING FEES FOR WATER METER INSTALLATION AND ANY OTHER REQUIREMENTS NECESSARY TO CARRY OUT HIS WORK. WHERE STREETS OR SIDEWALKS ARE CUT, SAME MUST OTHER REPAIRED TO AT LEAST AS GOOD A CONDITION AS THEY WERE BEFORE, ALL AT THE EXPENSE OF THIS CONTRACTOR. PERMITS SHALL BE POSTED IN A PROMINENT PLACE AT THE BUILDING SITE PROPERLY PROTECTED FROM THE WEATHER AND PHYSICAL DAMAGE.

GUARANTEE

1. CONTRACTOR SHALL, BY ACCEPTING THESE DRAWINGS AND SPECIFICATIONS, GUARANTEE:.
2. CONTRACTORS SHALL FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED EXCEPT WHERE SPECIFIED APPROVAL IS GIVEN BY ENGINEER FOR SUBSTITUTION.
3. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED SUBSTANTIALLY AS SHOWN ON DRAWINGS AND AS REQUIRED WITHIN THE INTENT OF THESE SPECIFICATIONS.
4. ALL EQUIPMENT, PIPING, ETC., SHALL BE DRIPTIGHT, AIRTIGHT, FREE OF VIBRATION, POUNDING AND OTHER OBJECTIONABLE NOISES.
5. CONTRACTORS SHALL GUARANTEE EQUIPMENT, ACCESSORIES AND MATERIAL FURNISHED BY HIM, INCLUDING INSTALLATION FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP.
6. IF ANY EQUIPMENT, MATERIAL, AND /OR PIPE JOINTS, CONNECTIONS, ETC., FAIL OR DO NOT OPERATE SATISFACTORILY OR SHOW UNDUE WEAR, HE WILL, UPON BEING NOTIFIED, IMMEDIATELY REMEDY DEFECT AT HIS OWN EXPENSE.

WORK AND WORKMANSHIP

1. PROVIDE ALL REQUIRED LABOUR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE INSTALLATION OF SYSTEMS REQUIRED IN FULL CONFORMITY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, ALL AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.
2. FINISHED JOB SHALL BE FUNCTIONAL AND COMPLETE IN EVERY DETAIL, INCLUDING ANY AND ALL SUCH ITEMS REQUIRED FOR A COMPLETE SYSTEM WHETHER OR NOT THESE ITEMS BE SPECIFIED OR SHOWN ON THE DRAWINGS. ALL SUCH ACCESSORIES AND APPURTENANCES SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
3. SPECIAL ATTENTION SHALL BE GIVEN TO ACCESSIBILITY OF WORKING PARTS AND CONTROLLING PARTS. ADJUSTABLE PARTS SHALL BE WITHIN EASY REACH, REMOVABLE PARTS SHALL HAVE SPACE FOR REMOVAL.
4. EACH CONTRACTOR SHALL ACQUAINT HIMSELF WITH DETAILS OF ALL WORK TO BE PERFORMED BY OTHER TRADES AND TAKE NECESSARY STEPS TO INTEGRATE AND COORDINATE HIS WORK WITH OTHER TRADES.
5. IT IS ASSUMED THAT THE CONTRACTOR IS FAMILIAR WITH STANDARD FIRST CLASS INSTALLATION PROCEDURES. THEREFORE, THESE SPECIFICATIONS DO NOT ATTEMPT TO INCLUDE EVERY DETAIL OR OPERATION NECESSARY FOR THE COMPLETE INSTALLATION.
6. IT SHOULD BE PARTICULARLY NOTED THAT THE TERMS "FURNISH" AND "PROVIDE" ARE INTERCHANGEABLE AND THAT EACH OF THESE MEANS TO PROVIDE, INSTALL AND CONNECT, UNLESS OTHERWISE STATED.
7. WHENEVER TABLES OR SCHEDULES SHOW QUANTITY OF MATERIALS, THEY SHALL NOT BE USED AS A GUIDE TO THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL NOTED ON THE DRAWINGS AND AS SPECIFIED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, SAFEKEEPING AND CLEANLINESS OF ALL EXISTING EQUIPMENT, MATERIAL , ETC., LOCATED IN SPACES TO BE REMODELED IN WHICH HE IS WORKING. AS A PART OF HIS RESPONSIBILITY, HE SHALL PROVIDE THE NECESSARY COVERS, STRUCTURES, ETC., AS REQUIRED TO KEEP ALL DIRT, WATER, MOISTURE AND DUST FROM EQUIPMENT, THE METHOD THE CONTRACTOR PROPOSES TO USE IN PROTECTING EQUIPMENT SHALL BE COORDINATED WITH THE ENGINEER AND OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE ANY WORK IS STARTED. ANY DAMAGE SUSTAINED DURING CONSTRUCTION SHALL BE CORRECTED OR REPLACED BY THE CONTRACTOR.

ASSIGNMENT OF MISCELLANEOUS WORK

1. PAINTING: MECHANICAL CONTRACTOR WILL PROVIDE PRIME PAINTING ON ALL FERROUS METALS SUCH AS SUPPORT STEEL OR HANGER FOR MECHANICAL PIPING AND EQUIPMENT, PIPING IS NOT BE PRIMED. ANY FINISH PAINTING OF MECHANICAL WORK REQUIRED, INCLUDING PAINTING OF PIPING AND STEEL EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE PAINTED BY THE MECHANICAL CONTRACTOR.
2. PLATFORM AND SUPPORTING STANDS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. HOLES REQUIRED FOR PIPING OR DUCTWORK OF SIZE 5" OR SMALLER SHALL BE CUT IN FIELD AT THE EXPANSE OF THE MECHANICAL CONTRACTOR. OWNER SHALL GIVE APPROVAL PRIOR TO ANY CUTTING. ALL LARGER HOLES SHALL BE PROVIDED BY OTHERS, AS DETAILED IN STRUCTURAL DRAWINGS.
3. CEILING AND WALL ACCESS PANELS: MECHANICAL CONTRACTOR SHALL CUT AND PATCH FINISHED AREAS FOR PANELS AS REQUIRED BY THE MECHANICAL CONTRACTOR; PROVIDE ACCESS PANELS AS SPECIFIED, WHERE SHOWN OR REQUIRED FOR ACCESS TO COILS, VALVES, ETC.
   A. ACOUSTICAL TILE WALL OR CEILING: .24"X12" UNLESS OTHERWISE NOTED. CONSTRUCTED TO RECEIVE TILE TO MATCH CEILING.
   B. PLASTERED WALL OR CEILING UNLESS OTHERWISE NOTED. CONSTRUCTED TO RECEIVE PLASTER TO MATCH ADJACENT FINISH.
4. CUTTING AND PATCHING: MECHANICAL CONTRACTOR SHALL CUT AND PATCH FINISHED AREAS AS REQUIRED BY THE MECHANICAL CONTRACTOR. CUT STRUCTURAL MATERIALS ONLY WHERE REQUIRED AFTER APPROVAL FROM THE ARCHITECT AND ENGINEER.
4. DISPOSITION OF EXISTING EQUIPMENT WHICH IS TO BE REMOVED AND SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED BY THE CONTRACTOR AS DIRECTED BY THE OWNER.
5. TEMPORARY PARTITIONS OR BARRIERS REQUIRED TO PROTECT EXITING BUILDING OR FACILITIES SHALL BE PROVIDED B THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE NECESSITY AND LOCATION OF SUCH PROTECTION WITH OWNER.
6. ROOF OPENINGS AND FLASHING BY MECHANICAL CONTRACTOR SHALL BE BY THE SAME. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE CORRECT SIZE AND LOCATION OF SAME. COUNTERFLASHING BY THE MECHANICAL CONTRACTOR.
7. PADS AND FOUNDATIONS FOR MECHANICAL WORK SHALL BE FORMED AND POURED BY THE MECHANICAL CONTRACTOR. THE SAME SHALL VERIFY PADS AND ALL ANCHORING DEVICES.
8. EXCAVATING AND BACKFILLING FOR MECHANICAL WORK SHALL BE BY THE MECHANICAL CONTRACTOR.
9. ALL OUTSIDE DOWNSPOUT SHALL BE BY THE GENERAL CONTRACTOR. DOWNSPOUT SHOE SHALL BE BY THE MECHANICAL CONTRACTOR.
10. ROOF CURBS AND BASES FOR VENTILATORS, ROOF INTAKES AND RELIEF AND FANS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.

DRAWINGS

MECHANICAL DRAWINGS SHOW GENERAL ARRANGEMENT OF ALL PIPING, EQUIPMENT AND APPURTENANCES. THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT. MECHANICAL WORK SHALL CONFORM TO REQUIREMENTS SHOWN ON ALL DRAWINGS. GENERAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS.

BECAUSE OF THE SMALL SCALE OF MECHANICAL DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. CONTRACTOR SHALL INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND SHALL ARRANGE HIS WORK ACCORDINGLY, PROVIDING SUCH FITTINGS, VALVES AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER.

COORDINATION BETWEEN CONTRACTORS

EACH CONTRACTOR AND SUBCONTRACTOR SHALL STUDY AL DRAWINGS APPLICABLE TO THIS WORK SO COMPLETE COORDINATION BETWEEN TRADES WILL BE AFFECTED. SPECIAL ATTENTION SHALL BE GIVEN TO POINTS WHERE DUCTS CROSS OTHER DUCTS OR PIPING, WHERE LIGHTS, FIT INTO CEILINGS AND WHERE PIPE, DUCTS AND CONDUITS PASS THROUGH WALLS AND COLUMNS.

IT IS THE RESPONSIBILITY OF EACH CONTRACTOR AND SUBCONTRACTOR TO LEAVE NECESSARY ROOM FOR OTHER TRADES. NO EXTRA COMPENSATION WILL BE ALLOWED TO COVER THE COST OF REMOVING PIPING, CONDUITS, DUCTS, OR EQUIPMENT FOUND ENCROACHING ON SPACE REQUIRED BY OTHERS.

MINOR DEVIATIONS

FOR THE PURPOSE OF CLARITY AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC ALTHOUGH SIZE AND LOCATION OF EQUIPMENT AND PIPING ARE DRAWN NEAR TO SCALE WHEREVER POSSIBLE. VERIFY CONTRACT DOCUMENT INFORMATION AT SITE.

DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTED. IT IS NOT THE INTENTION OF DRAWINGS TO INDICATE ALL NECESSART OFFSETS. INSTALL WORK IN A MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOMS AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

ATTACHING TO BUILDING CONSTRUCTION

EQUIPMENT AND PIPING SUPPORTS SHALLL BE ATTACHED TO STRUCTURAL MEMBERS (BEAMS, JOISTS, ETC.) RATHER THAN TO FLOOR OR ROOF SLABS. DO NOT ATTACHED HANGARS TO BOTTOM CHORD OF STRUCTURAL MEMBERS.

DEMOLITION AND REMOVAL OF EQUIPMENT

1. CONTRACTORS SHALL REMOVE ALL EQUIPMENT, PIPES, DUCTWORK, HANGERS AND SUPPORT FOR PORTION IF MECHANICAL SYSTEM IN PRESENT BUILDING AS SHOWN ON DRAWINGS AND/ OR IMPLED BY NATURE OF THE WORK INDICATED TO BE REMOVED.
2. CONTRACTOR SHALL PROPERLY REMAINING PORTION OF WORK, CONTRACTOR SHALL PROVIDE VALVES, PLUGS, VENTS ETC. AS REQUIRED FOR COMPLETE OPERATING SYSTEM , ALL PIPES, DUCTWORKS, ETC., REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR SHALL BE REMOVED FROM THE PREMISES UNLESS SPECIFIED OTHERWISE.
3. CONTRACTOR SHALL CAP ALL ABANDONED PIPING WHICH CANNOT BE REMOVED. THIS WOULD PERTAIN TO PIPING WHICH RUNS INTO CONCRETE FLOOR, THRU OUTSIDE WALLS BELOW GRADE, ETC.

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REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME

GENERAL PLAN INFORMATION

SHEET NO.

GC003

A. WALKS & SIDEWALKS

1. WALKS & SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2", & SHALL BE A MIN. OF 48" IN WIDTH.
2. WHEN ABRUPT CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUR, THEY SHALL BE BEVELED W/ A SLOPE NO GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
3. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE EXCEEDING ½" SHALL COMPLY W/ THE REQUIREMENTS FOR CURB RAMPS.
4. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL IT SHALL COMPLY W/ THE PROVISIONS OF SECTION 1007 AS A PEDESTRIAN RAMP.
5. WALK & SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT.
6. WALKS SHALL BE PROVIDED W/ A LEVEL AREA NOT LESS THAN 60" BY 60" @ A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48" WIDE BY 44" DEEP @ A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK.
7. WALKS SHALL EXTEND A MIN. OF 24" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.
8. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS @ LEAST 5' IN LENGTH @ INTERVALS OF AT LEAST EVERY 400'.
9. WALK & SIDEWALK SURFACES SHALL BE SLIP-RESISTANT AS FOLLOWS:
   A. SURFACES W/ A SLOPE OF LESS THAN 6% GRADIENT SHALL BE @ LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.
   B. SURFACES W/ A SLOPE OF 6% GRADIENT SHALL BE SLIP-RESISTANT.
10. WALKS, SIDEWALKS, & PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE NO GREATER THAN ½" WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

B. CURB RAMPS

1. CURB RAMPS SHALL BE A MIN. OF 4' IN WIDTH & SHALL LIE, GENERALLY, IN A SINGLE SLOPED PLANE, W/ A MIN. OF SURFACE WARPING & CROSS SLOPE.
2. THE SLOPE OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 12 HORIZONTAL.
3. MAX. SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE, SHALL NOT EXCEED 1:20 WITHIN 4' OF THE TOP & BOTTOM OF THE CURB RAMP. THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 8 HORIZONTAL.
4. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH & FREE OF ABRUPT CHANGES, EXCEPT THAT THE LOWER END OF EACH CURB RAMP SHALL HAVE A 1/2" LIP BEVELED @ 45 DEGREES.
5. IF DIAGONAL (CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE 48" MIN. CLEAR SPACE. IF DIAGONAL CURB RAMPS ARE PROVIDED @ MARKED CROSSINGS, THE 48" CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE @ LEAST A 24" LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP & WITHIN THE MARKED CROSSING.
6. THE SURFACE OF EACH CURB RAMP & ITS FLARED SIDES SHALL BE STABLE, FIRM, & SLIP-RESISTANT & SHALL BE OF CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.
7. ALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12" WIDE @ THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP & EACH SIDE APPROXIMATELY 3/4" ON CENTER. ALL CURB RAMPS CONSTRUCTED BETWEEN THE FACE OF THE CURB & THE STREET SHALL HAVE A GROOVED BORDER @ THE LEVEL SURFACE OF THE SIDEWALK.
8. A CURB RAMP SHALL HAVE A DETECTABLE WARNING THAT EXTENDS THE FULL WIDTH & DEPTH OF THE CURB RAMP INSIDE THE GROOVED BORDER WHEN THE RAMP SLOPE IS LESS THAN 1 VERTICAL TO 15 HORIZONTAL. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9" @ THE BASE TAPERING TO 0.45" @ THE TOP, A HEIGHT OF NOMINAL 0.2", & A CENTER-TO-CENTER SPACING OF NOMINAL 2.35", IN COMPLIANCE W/ FIGURE 11B-23. "NOMINAL", AS USED HERE, SHALL BE IN ACCORDANCE W/ SECTION 12-31-102, STATE REFERENCED STANDARDS CODE. THE DETECTABLE WARNING SHALL CONTRAST VISUALLY W/ ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS, INCLUDING CAST-IN-PLACE OR STAMPED, OR MAY BE PART OF A PREFABRICATED SURFACE TREATMENT. (SEC 1127B.5 (7))
9. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.

C. PARKING

1. WHERE SINGLE ACCESSIBLE PARKING SPACES ARE PROVIDED, THEY SHALL BE 14' WIDE & OUTLINED TO PROVIDE A 9' PARKING AREA & A 5' LOADING & UNLOADING ACCESS AISLE ON THE PASSENGER SIDE OF THE VEHICLE.
2. WHEN MORE THAN ONE ACCESSIBLE PARKING SPACE IS PROVIDED, IN LIEU OF PROVIDING A 14' WIDE SPACE FOR EACH PARKING SPACE, TWO SPACES CAN BE PROVIDED WITHIN A 23' WIDE AREA LINED TO PROVIDE A 9' PARKING AREA ON EACH SIDE OF A 5' LOADING & UNLOADING ACCESS AISLE IN THE CENTER.
3. THE MIN. LENGTH OF AN ACCESSIBLE PARKING SPACE SHALL BE 18'. (OR BY LOCAL ORDINANCE)
4. SURFACE SLOPES OF ACCESSIBLE PARKING SPACES SHALL BE THE MIN. POSSIBLE & SHALL NOT EXCEED 2% IN ANY DIRECTION.
5. ALL ENTRANCES TO & VERTICAL CLEARANCES WITHIN PARKING STRUCTURES SHALL HAVE A MIN. VERTICAL CLEARANCE OF 8'-2" WHERE REQUIRED FOR ACCESSIBILITY TO ACCESSIBLE PARKING SPACES.
6. PEDESTRIAN WAYS WHICH ARE ACCESSIBLE TO PEOPLE W/ DISABILITIES SHALL BE PROVIDED FROM EACH SUCH PARKING SPACE TO RELATED FACILITIES, INCLUDING CURB CUTS OR RAMPS AS NEEDED.
7. ACCESSIBLE PARKING SPACES SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.

PARKING SIGNAGE

1. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR W/ OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA &, WHEN IN A PATH OF TRAVEL, SHALL BE POSTED AT A MIN. HEIGHT OF 80" FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE.
2. SIGNS TO IDENTIFY ACCESSIBLE PARKING SPACES MAY BE CENTERED ON THE WALL @ THE INTERIOR END OF THE PARKING SPACE @ A MIN. HEIGHT OF 36" FROM THE PARKING SPACE FINISHED GRADE, GROUND OR SIDEWALK.
3. VAN ACCESSIBLE PARKING SPACES SHALL HAVE AN ADDITIONAL SIGN STATING "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.
4. THE SURFACE OF EACH ACCESSIBLE PARKING SPACE OR STALL SHALL HAVE A SURFACE IDENTIFICATION DUPLICATING EITHER OF THE FOLLOWING SCHEMES:
   A. BY OUTLINING OR PAINTING THE STALL OR SPACE IN BLUE & OUTLINING ON THE GROUND IN THE STALL OR SPACE IN WHITE OR SUITABLE CONTRASTING COLOR A PROFILE VIEW DEPICTING A WHEELCHAIR W/ OCCUPANT;
   B. BY OUTLINING A PROFILE VIEW OF A WHEELCHAIR W/ OCCUPANT IN WHITE ON BLUE BACKGROUND. THE PROFILE VIEW SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE & SHALL BE 36" HIGH BY 36" WIDE.

D. ENTRANCES & EXITS

1. ALL ENTRANCES & ALL EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS & FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS W/ DISABILITIES.
2. DURING PERIODS OF PARTIAL OR RESTRICTED USE OF A BUILDING OR FACILITY, THE ENTRANCES USED FOR PRIMARY ACCESS SHALL BE ACCESSIBLE TO & USABLE BY PERSONS WITH DISABILITIES.
3. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
4. MANUALLY OPERATED EDGE OR SURFACE-MOUNTED FLUSH BOLTS & SURFACE BOLTS ARE PROHIBITED. WHEN EXIT DOORS ARE USED IN PAIRS & APPROVED AUTOMATIC FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOORKNOB OR SURFACE-MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
5. LATCHING & LOCKING DOORS THAT ARE HAND ACTIVATED & WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE W/ A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
6. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" & 48" ABOVE THE FLOOR. LEVER DOOR HARDWARE REQUIRED @ EXTERIOR FACE OF PRIMARY UNIT ENTRY DOOR.
7. EVERY DOORWAY WHICH IS LOCATED WITHIN AN ACCESSIBLE PATH OF TRAVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. WHEN INSTALLED, EXIT DOORS SHALL BE CAPABLE OF OPENING SO THAT THE CLEAR WIDTH OF THE EXIT IS NOT LESS THAN 32", MEASURED BETWEEN THE FACE OF THE DOOR & THE OPPOSITE STOP.
8. WHERE A PAIR OF DOORS IS UTILIZED, @ LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" W/ THE LEAF POSITIONED @ AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
9. WHEN AN AUTOMATIC DOOR OPERATOR IS UTILIZED TO OPERATE A PAIR OF DOORS, @ LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" W/ THE DOOR POSITIONED @ AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
10. THERE SHALL BE A LEVEL & CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF @ LEAST 60" & THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED @ RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION.
11. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND A MIN. OF 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS & A MIN. OF 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS.
12. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.
13. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENINGS IN A VESTIBULE, SERVING OTHER THAN A REQUIRED EXIT STAIRWAY, SHALL PROVIDE A MIN. OF 48" OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH VESTIBULE WHEN THE DOOR IS POSITIONED @ AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. DOORS IN A SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.
14. ALL OTHER PASSAGE DOORS LEADING TO ROOMS & USABLE CLOSETS DEEPER THAN 24" IN CLEAR DEPTH WITHIN DWELLING UNITS ARE TO BE USABLE @ 32" MIN.

E. SANITARY FACILITY FIXTURES & ACCESSORIES

1. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MIN. OF 17" & A MAX. OF 19" MEASURED TO THE TOP OF A MAX. 2" HIGH TOILET SEAT, EXCEPT THAT 3" SEATS SHALL BE PERMITTED ONLY IN ALTERATIONS WHERE THE EXISTING FIXTURE IS LESS THAN 15" HIGH.
2. A CLEAR FLOOR SPACE 30" BY 48" SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE & SHALL EXTEND INTO KNEE & TOE SPACE UNDERNEATH THE LAVATORY.
3. LAVATORIES ADJACENT TO A WALL SHALL BE MOUNTED W/ A MIN. DISTANCE OF 18" TO THE CENTER LINE OF THE FIXTURE.
4. LAVATORIES SHALL BE MOUNTED W/ THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR & W/ A CLEARANCE OF @ LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON W/ KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MIN. OF 30" IN WIDTH & 8" MIN. DEPTH @ THE TOP. TOE CLEARANCE SHALL BE THE SAME WIDTH & SHALL BE A MIN. OF 9" HIGH FROM THE FLOOR & A MIN. OF 17" DEEP FROM THE FRONT OF THE LAVATORY.
5. HOT WATER & DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
6. WHERE URINALS ARE PROVIDED, @ LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30" BY 48" IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH.
7. WHERE ONE OR MORE URINALS ARE PROVIDED, @ LEAST ONE WITH A RIM PROJECTING A MIN. OF 14" FROM THE WALL & @ A MAX. OF 17" ABOVE THE FLOOR SHALL BE PROVIDED.
8. WATER CLOSET & URINAL FLUSH VALVE CONTROLS, FAUCET & OPERATING MECHANISM CONTROLS, SHALL BE OPERABLE W/ ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, & SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.
9. SELF-CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR @ LEAST 10 SECONDS.
10. MIRRORS SHALL BE MOUNTED W/ THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.
11. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, & OTHER SIMILAR DISPENSING & DISPOSAL FIXTURES ARE PROVIDED, @ LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40" FROM THE FINISHED FLOOR.
12. TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT & NO LOWER THAN 19" FROM THE FLOOR. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.

F. GRAB BARS

1. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ON ONE SIDE & THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT.
2. GRAB BARS AT THE SIDE SHALL BE @ LEAST 42" LONG W/ THE FRONT END POSITIONED 24" IN FRONT OF THE WATER CLOSET STOOL & WITH THE BACK END POSITIONED NO MORE THAN 12" FROM THE REAR WALL. GRAB BARS @ THE BACK SHALL BE NOT LESS THAN 36" LONG.
3. GRAB BARS SHALL BE SECURELY ATTACHED 33" ABOVE & PARALLEL TO THE FLOOR, EXCEPT THAT WHERE A TANK-TYPE TOILET IS USED WHICH OBSTRUCTS PLACEMENT @ 33", THE GRAB BAR MAY BE AS HIGH AS 36".
4. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL & THE GRAB BARS SHALL BE 1-1/2".
5. A GRAB BAR & ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MIN. RADIUS OF 1/8".

G. ELECTRICAL

1. THE CENTER OF ELECTRICAL & COMMUNICATION SYSTEM RECEPTACLE OUTLETS SHALL BE INSTALLED NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM WITH THE EXCEPTION OF OUTLETS & SWITCHES LOCATED ABOVE COUNTERTOPS TO BE MOUNTED @ 46" MAX.
2. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING & RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, & VENTILATING EQUIPMENT SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORM.
3. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK.

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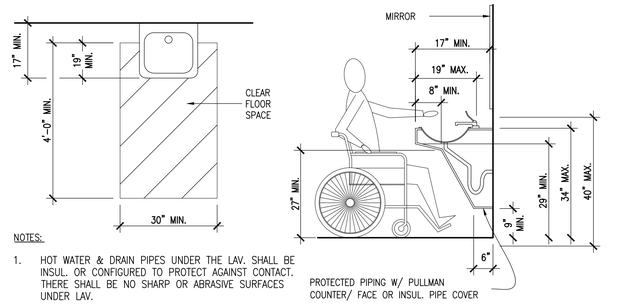
REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

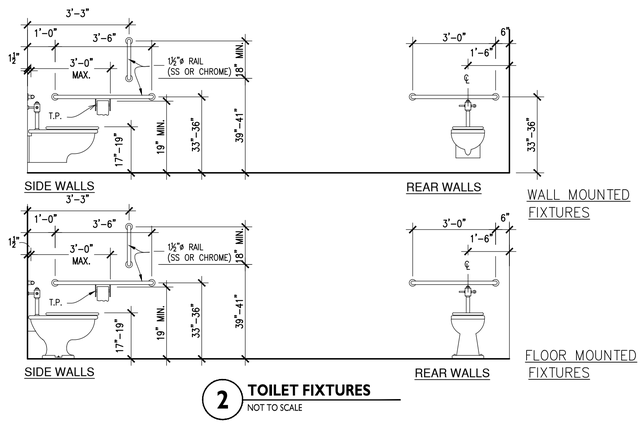
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE
SHEET NAME	ADA STANDARDS
SHEET NO.	GC010



NOTES:

1. HOT WATER & DRAIN PIPES UNDER THE LAV. SHALL BE INSUL. OR CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAV.
2. FAUCETS SHALL BE LEVER OPERATED, PUSH TYPE, OR ELECTRICALLY CONTROLLED MECHANISIMS. SELF-CLOSING VALVES SHALL REMAIN OPEN FOR @ LEAST 10 SECONDS.
3. MIRRORS SHALL BE MTD. W/ THE BTM. EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40 INCHES A.F.F.

1 LAVATORY
NOT TO SCALE



2 TOILET FIXTURES
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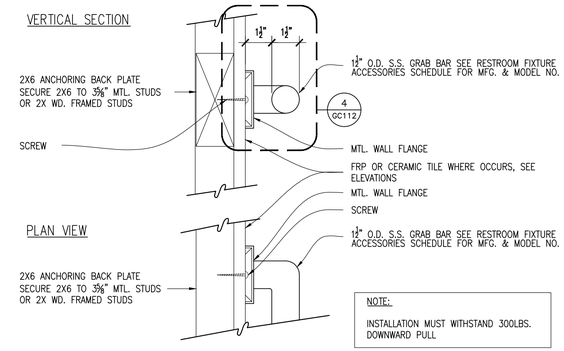
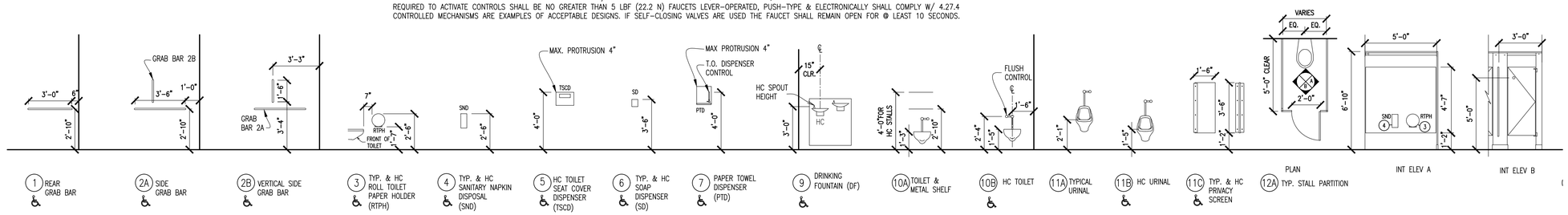


NOTE:
INSTALLATION MUST WITHSTAND 300LBS. DOWNWARD PULL

3 GRAB BAR - PLAN/SECTION
NOT TO SCALE

CONTROLS & OPERATING MECHANISMS SHALL BE OPERABLE W/ ONE HAND & SHALL NOT REQ. TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N) FAUCETS LEVER-OPERATED, PUSH-TYPE & ELECTRONICALLY SHALL COMPLY W/ 4.27.4 CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR @ LEAST 10 SECONDS.



1 REAR GRAB BAR
2A SIDE GRAB BAR
2B VERTICAL SIDE GRAB BAR
3 TYP. & HC ROLL TOILET PAPER HOLDER (RTPH)
4 TYP. & HC SANITARY NAPKIN DISPOSAL (SND)
5 HC TOILET SEAT COVER DISPENSER (TSCD)
6 TYP. & HC SOAP DISPENSER (SD)
7 PAPER TOWEL DISPENSER (PTD)
9 DRINKING FOUNTAIN (DF)
10A TOILET & METAL SHELF
10B HC TOILET
11A TYPICAL URINAL
11B HC URINAL
11C TYP. & HC PRIVACY SCREEN
12A TYP. STALL PARTITION

4 WASHROOM ACCESSORIES
NOT TO SCALE

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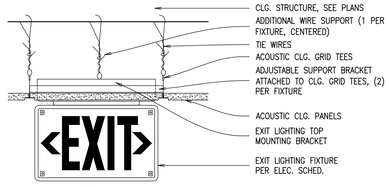
HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H Doug Bruce

PROJECT NO. 2921
DATE MARCH 26, 2024
DRAWN BY A. NOWLIN
CHECKED BY D. BRUCE
SHEET NAME ADA STANDARDS
SHEET NO. GC011



A EXIT SIGN DETAIL
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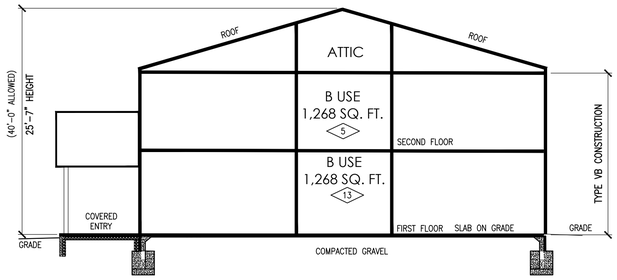
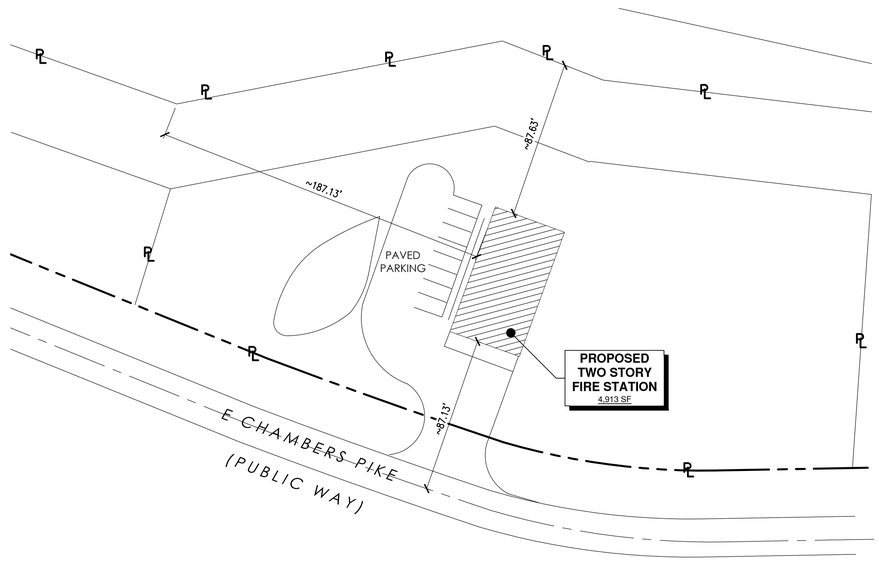
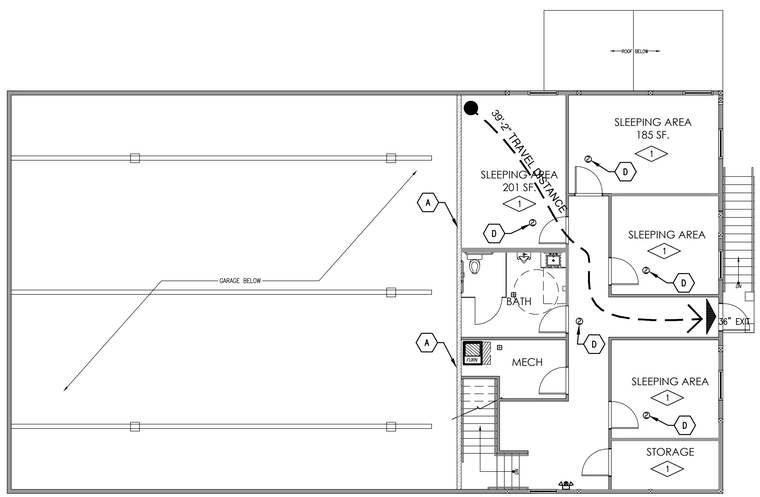


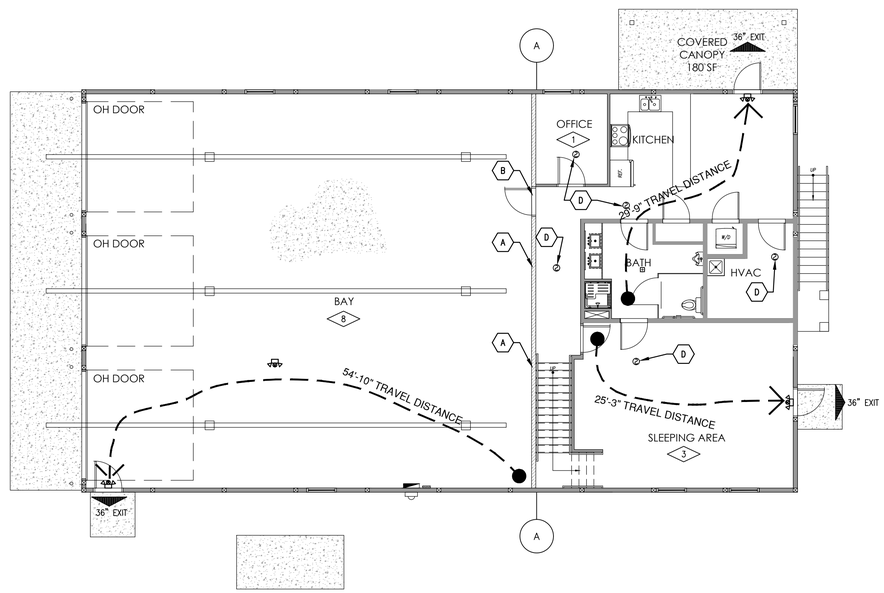
3 LIFE SAFETY - BUILDING SECTION DIAGRAM
NOT TO SCALE



2 LIFE SAFETY - SITE PLAN
NOT TO SCALE



2 LIFE SAFETY - 2ND FLOOR
NOT TO SCALE



1 LIFE SAFETY - FIRST FLOOR
NOT TO SCALE

EGRESS PLAN NOTES:

- (A) 1 HOUR RATED WALL. SEE BUILDING SECTIONS FOR 1 HR RATED WALL CONSTRUCTION.
- (B) 45 MINUTE RATED DOOR AND FRAME ASSEMBLY.
- (C) EXTEND GYP. BD MINIMUM 4'-0" EACH SIDE OF 1 HOUR RATED WALL. SEE NOTE 'A' ABOVE.
- (D) SMOKE DETECTOR – PROVIDE HARDWIRED WITH BATTERY BACKUP.

FIRE PROTECTION NOTES:

1. THIS BUILDING IS NOT REQUIRED TO HAVE A SPRINKLER SYSTEM PER 903.2.9 (>12,000 SQ.FT)
2. PROVIDE A KNOX BOX & INSTALL UPON THE BUILDING EXTERIOR IN AN ACCESSIBLE LOCATION AS INSTRUCTED BY THE LOCAL FIRE DEPARTMENT.

CODE SUMMARY 2014 INDIANA BUILDING CODE

CODE ITEM	CODE REFERENCE	VALUE	
OCCUPANCY CLASSIFICATION	SECTION 301	B / S-2	
OCCUPANCY USE TYPE	SECTION 301	FIRE STATION	
CONSTRUCTION TYPE	TABLE 602.1	V-B	
SPRINKLER SYSTEM	903.2.9	NOT REQUIRED	
UNIT SEPARATION	SECTION 708		
CORRIDORS	SECTION 1018.1	NON RATED	
FLOORS & ROOFS	SECTION 711	NON RATED	
SHAFTS (LESS THAN 4 STORIES)	SECTION 713	NON RATED	
MAXIMUM TRAVEL DISTANCE	SECTION 1016.2	LESS THAN 100'-0" (54'-10" ACTUAL)	
BUILDING DATA		ACTUAL	
MAXIMUM HEIGHT (STORIES)			
1ST FLOOR	TABLE 503	2 STORY	
2ND FLOOR	TABLE 503	2 STORY	
MAXIMUM HEIGHT (LIN. FT.)	TABLE 503	23.56 LF	40 LF PER 504.2
AREA W/ ALLOWABLE INCREASE (SQ. FT.) PER FLOOR	SECTION 506.1	–	
TOTAL FIRST FLOOR BUSINESS AREA (SQ. FT.)	(B)	1,138 SF	5 OCCUPANTS
TOTAL FIRST FLOOR STORAGE AREA (SQ. FT.)	(S-2)	2,311 SF	8 OCCUPANTS
TOTAL SECOND FLOOR AREA (SQ. FT.)		1,268 SF	
TOTAL COVERED CANOPY (SQ. FT.)		180 SF	
TOTAL BUILDING AREA (SQ. FT.)		4913 SF	26 OCCUPANTS

GENERAL NOTES:

EXTERIOR OPENING PERCENTAGE PER TABLE 705.8
NORTH & WEST WALLS NOT LIMITED (GREATER THAN 30 FT. (WIDTH OF YARD) OR PUBLIC RIGHT OF WAY)

* FIREHOUSE IS A B OCCUPANCY PER 304.1
* THIS PROJECT IS SUBMITTED AS A NON-SEPARATED USE. PER 508.3
* USE B: ONE EXIT ALLOWED. PER 1015.1
* MANUAL FIRE ALARMS NOT REQUIRED PER 907.2.2

EXIT WIDTH PER SECTION 1005. ONE EXIT PER TABLE 1021

OCCUPANT LOADING PER TABLE 1004.1.2:
B: 1 PER 100 SF S-2: 1 PER 300 SF
TOTAL= 26 TOTAL OCCUPANTS

CODE SUMMARY LEGEND

- ALL WALLS SEPARATING THE INDICATED ROOM FROM ADJACENT INTERIOR SPACES SHALL COMPLY WITH THE FOLLOWING: INCIDENTAL USE NON-RATED SMOKE RESISTANT SEPARATION WALLS TO EXTEND TIGHT TO FLOOR OR ROOF DECK ABOVE. DOORS TO BE SELF-CLOSING OR AUTOMATIC-CLOSING UPON DETECTION OF SMOKE.
- NEW FIRE EXTINGUISHER BOX LOCATION
  EXTINGUISHER: LARSEN MP5, SLB. 2A-10 B;C
  EXTINGUISHER CABINET: LARSEN MEDALLION SERIES RECESSED FS BZ 2409-R3, FIRE RATED W/ VERT. DUO DOOR W/ ACRYLIC DOOR STANDARD #4 BRUSHED BRONZE FINISH
- MAJOR EGRESS ROUTES
- 45 — SIGNIFIES 45 MIN. FIRE RATED DOOR ASSEMBLY, ALSO SEE DOOR SCHEDULE SHEET.
- EXIT
- (PH) DOORS WITH PANIC HARDWARE
- (1) OCCUPANT LOAD
- 1/2 HOUR RATED FIRE BARRIER WITH 3/4 HOUR MINIMUM OPENING PROTECTION. FIRESTOP ALL PENETRATIONS AND TOP OF WALL.
- 1 HOUR RATED FIRE BARRIER WITH 3/4 HOUR MINIMUM OPENING PROTECTION. FIRESTOP ALL PENETRATIONS AND TOP OF WALL.
- 1.5 — SIGNIFIES 1.5 HOUR FIRE RATED DOOR ASSEMBLY W/ PANIC HARDWARE, ALSO SEE DOOR SCHEDULE SHEET.

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ARCHITECTURE & DESIGN INC.
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TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

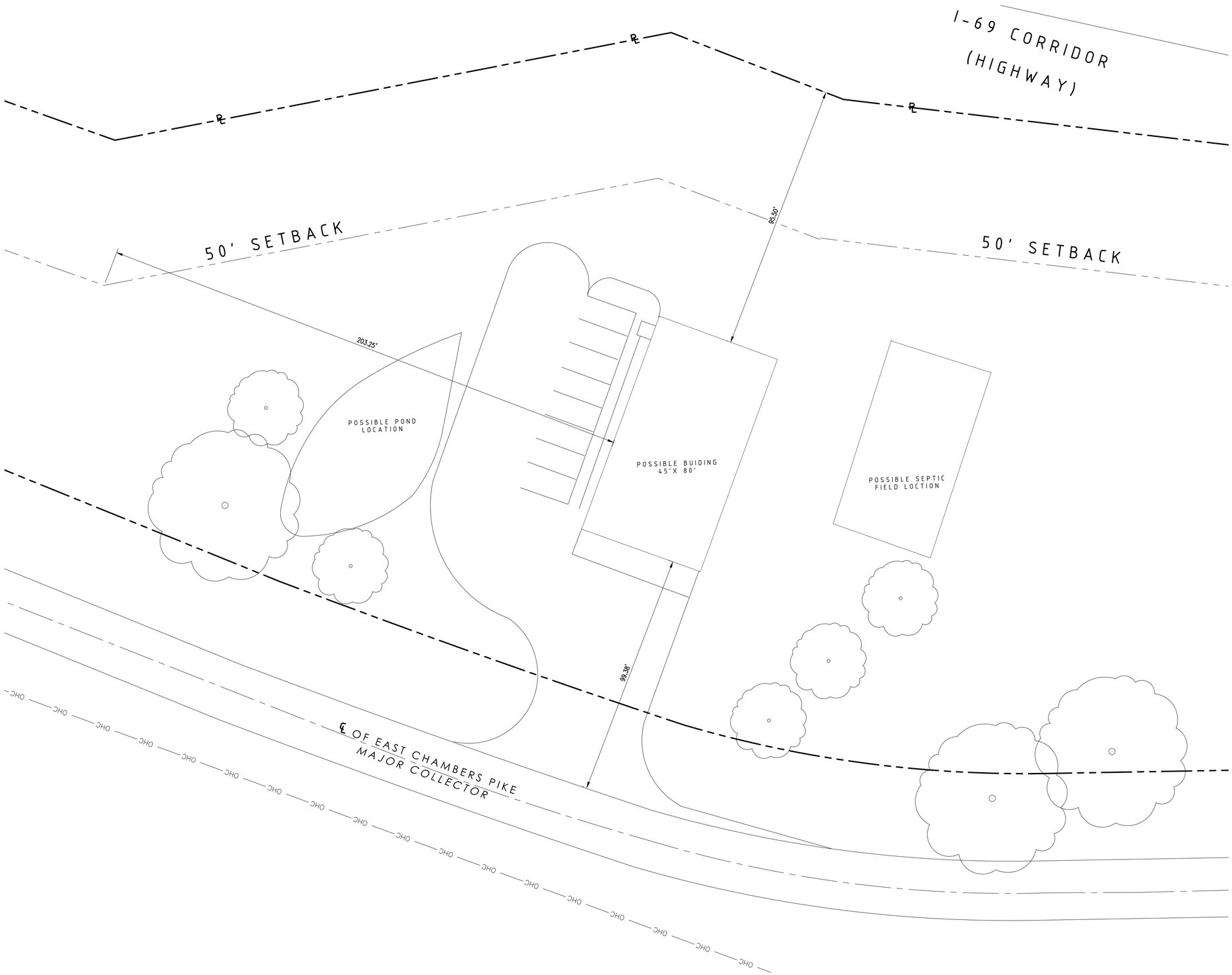
REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE
SHEET NAME	LIFE SAFETY PLAN
SHEET NO.	GI101



1 **ARCHITECTURAL SITE PLAN**
1" = 100'

THIS SITE PLAN HAS BEEN CREATED FROM THE MONROE COUNTY G.I.S. SYSTEM. DISCREPANCIES DO EXIST BETWEEN SOME EXISTING MEASUREMENTS AND G.I.S. SUPPLIED DATA. INFORMATION BASED UPON THE USE OF THESE DRAWINGS SHALL BE VERIFIED WITH A CIVIL ENGINEER OR STAMPED SURVEY. THE ARCHITECT MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED OF THE DATA CONTAINED ON THIS DRAWING.

SITE PLAN KEYNOTES:

1. NEW ASPHALT DRIVE AND PARKING LOT.
2. NEW CONCRETE STOOP. PROVIDE 4" MINIMUM CONCRETE WITH BROOMED FINISH. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
3. PROVIDE 6" MINIMUM CONCRETE PAD AT OVERHEAD DOORS (27'-0" x 4'-0"). SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE 6" CONCRETE CURB AT ALL DRIVES AND PARKING LOT

SITE UTILITIES CONTACT INFORMATION:

- SMITHVILLE COMMUNICATIONS:
  Ph. 812-876-2211 OPT. 7
- SCI REMC:
  KERRY DYER Ph. 765-352-4759
  Email: kerryd@sciremc.com
- WASHINGTON TOWNSHIP WATER:
  MARK SCHMITTER Ph. 812-360-0044
  Email: mark@wtwc.org

UTILITY NOTES

1. MS. ; IF SHOWN ON THE PLANS, MINIMUM SEWER ELEVATION. IT INDICATES THE LOWEST FLOOR ELEVATION THAT WILL ALLOW GRAVITY SEWER CONNECTION WITHOUT A SPECIAL BACK WATER VALVE. ANY FLOOR ELEVATION THAT WILL BE SERVED BY GRAVITY SEWER MUST BE ABOVE THE RIM ELEVATION OF THE UPSTREAM SANITARY MANHOLE. IF NOT A BACKWATER VALVE MUST BE INSTALLED ACCORDING TO THE UNIFORM PLUMBING CODE.
2. SEE DRAWINGS & SPECIFICATIONS FOR SIZES OF WATER SERVICE LINES AND SEWER LATERALS NOT SPECIFICALLY NOTED ON THE PLANS.
3. WHEN CONNECTING A NEW PIPE TO AN EXISTING MAN HOLE, THE MAN HOLE SHALL BE CORE-DRILLED. PIPE SHALL BE CONNECTED TO THE MAN HOLE BY EITHER A FLEXIBLE BOOT KOR-N-SEAL 1 OR 2 FLEXIBLE CONNECTOR OR APPROVED EQUAL. TABLE AND TROUGH SHALL BE MODIFIED AS NECESSARY TO DIRECT TO THE FLOW FROM THE NEW PIPE. INVERT OF CONNECTION SHALL BE NO MORE THAN ONE FOOT HIGHER THAN THE INVERT OUT FOR THIS STRUCTURE.
4. WHEREVER C900 PIPE IS USED FOR SEWER, ALL WYES SHALL BE HARCO, SIZED FOR C900 ON THE RUN AND SDR-35 ON THE BRANCH. TRANSITION FROM C900 TO SDR-35 PIPE SHALL BE MADE BY USE OF A HARCO C-900 TO SDR-35 ADAPTER WYES.
5. ALL D.I.P. USED FOR SANITARY SEWER SHALL HAVE CERAMIC EPOXY LINING, MINIMUM THICKNESS 40 MILS, AND SHALL BE PROTECTED 401, AS MANUFACTURED BY INDURON PROTECTIVE COATINGS. WYES FOR D.I.P. SHALL BE HARCO D.I.P. TO SDR-35 ADAPTER WYES.
6. A PERMANENT INDICATING VALVE IS TO BE INSTALLED 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATING POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST, AND WILL REMAIN AS PART OF THE SYSTEM ONCE ALL IS COMPLETE. THE LINE WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM.
7. CONTRACTOR SHALL NOTIFY WASHINGTON TOWNSHIP WATER ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM, OR SANITARY SEWER UTILITY WORK.

SITE LAYOUT NOTES:

- ALL DIMENSIONS SHOWN ARE MIN.
- ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF FRAMING (U.N.O.)
- DOWNSPOUTS NEED TO CONNECT TO AN UNDERGROUND STORM WATER SYSTEM OR DRAIN TO DAYLIGHT IF ALLOWED.

GENERAL SITE NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING & VERIFYING THAT ALL PERMITS & APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, & STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY LOC. & INVERT ELEVATIONS OF EXIST. SEWERS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INCLUDE IN THEIR BID PROPOSAL COSTS FOR CUTTING & PATCHING AS REQ'D. TO COMPLETELY INSTALL THE NEW WORK INDICATED.
- CONTRACTOR SHALL INCLUDE ALL TAP FEES & APPLICATION FEES IN THEIR BID PROPOSAL AS NECESSARY TO COMPLETELY INSTALL THE WORK INDICATED.
- CONTRACTOR WILL COORDINATE EXACT UTILITY LOCATIONS W/ THE OWNER & LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR IS TO MAINTAIN A COMPLETE & OPERABLE UTILITY SYSTEM. UTILIZE PERMANENT &/OR TEMPORARY ROUTINGS TO ACCOMPLISH & MAINTAIN A FUNCTIONAL SYSTEM AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK W/ OWNER REPRESENTATIVES & ADJUST HIS SCHEDULE TO OWNER REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE REMOVAL AND/OR RELOCATION OF IRRIGATION LINES & SPRINKLER HEADS W/ OWNER IF APPLICABLE.
- COORDINATE STORAGE & STAGING AREAS W/ OWNER.
- LOCAL REGULATIONS MUST BE REVIEWED TO INSURE THAT ALL PLAN REQUIREMENTS ARE MET.
- ALL APPLICABLE STATE (D.O.T.) & LOCAL (PUBLIC WORKS DEPT.) CONSTRUCTION STANDARDS & SPECIFICATIONS SHALL BE USED AS REQ'D. FOR SITE SPECIFIC ISSUES.
- ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.

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HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H Doug Bruce

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	S.MATTHEWS
CHECKED BY	D. BRUCE

SHEET NAME
ARCHITECTURAL SITE PLAN

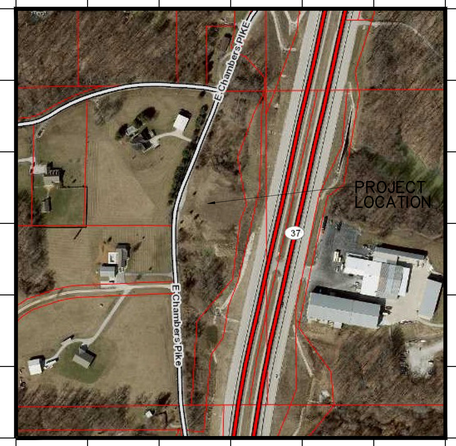
SHEET NO.
AS101

WASHINGTON TWP. FIRE STATION
PROJECT NO. 402131

PROPOSED:

WASHINGTON TOWNSHIP FIRE STATION

478 E CHAMBERS PIKE,
BLOOMINGTON, IN. 47404



VICINITY/LOCATION MAP
SCALE: NTS

SHEET INDEX

SHEET NO.	SHEET NO.
C101	GENERAL NOTES & LEGENDS
C201	SITE, UTILITY, GRADING & DRAINAGE PLAN
C301	SWPPP
C401	LANDSCAPE PLAN
C501	MISCELLANEOUS DETAILS
C601-C602	SWPPP DETAILS

UTILITY CONTACT INFORMATION

GAS	SEWER AND WATER	ELECTRIC
VECTREN	CITY OF BLOOMINGTON UTILITIES	DUKE ENERGY
205 S. MADISON ST,	600 E. MILLER DR.	1619 W. DEFFENBAUGH ROAD
BLOOMINGTON, IN 47401	BLOOMINGTON, IN 47402	KOKOMO, INDIANA 46902
DOUG ANDERSON (812)330-4009	NANCY AXSOM (812)349-3689	JIM SHIELDS (317)375-2071
TELEPHONE	**CABLE TELEVISION**	**UNDERGROUND UTILITY LOCATION**
AT&T	COMCAST	INDIANA UNDERGROUND
P.O. BOX 56	2450 SOUTH HENDERSON STREET	PLANT PROTECTION
BLOOMINGTON, IN 47402	BLOOMINGTON, IN 47404	1-(800)382-5544
BRENT McCABE (812)334-4521	SCOTT TEMPLETON (812)355-7822	

INDIANA 811 — Know what's below. Call before you dig

DIAL '811' BEFORE YOU DIG
PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Bloomington, Indiana 47404 (812) 332-8030

architecture
civil engineering
planning

OWNER/DEVELOPER:
WASHINGTON TOWNSHIP OF MONROE COUNTY
7974 N FOX HOLLOW RD.,
BLOOMINGTON, IN. 47408

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & CITY OF BLOOMINGTON UTILITIES STANDARD SPECIFICATIONS IS TO BE USED WITH THESE PLANS

JEFFREY S. FANYO No. 60018283 STATE OF INDIANA PROFESSIONAL ENGINEER

Certified By:
05-10-24
JEFFREY S. FANYO, P.E.
IND. REG. NO. 60018283

Revisions

WASHINGTON TWP. FIRE STATION
PROJECT NO. 402131

EROSION CONTROL LEGEND

- SF — TEMPORARY SILTATION FENCE – REFER TO DETAILS
- CL — CONSRUCTION LIMITS: DELINEATED BY PROPERTY LINE UNLESS OTHERWISE SPECIFIED
- MS — MULCH SEEDING – REFER TO DETAILS
- RR — D-50 RIP-RAP STORM OUTLET PROTECTION – REFER TO DETAIL AND PLAN FOR MIN. QUANTITY (PERMANENT)
- SP — 25' X 75' STONE PAD, 6" DEEP TO KEEP FROM TRACKING MUD OFF SITE – REFER TO DETAIL (TEMPORARY DURING CONSTRUCTION)
- CW — TEMPORARY CONCRETE WASHOUT AREA – REFER TO DETAIL
- TR — NORTH AMERICAN GREEN BRAND SERIES SC-250 TURF REINFORCEMENT MATTING – PERMANENT – APPLY TO OUTLET FROM POND AS INDICATED
- EC — PERMANENT EROSION CONTROL MATTING – CURLEX NET-FREE BRAND 100% BIO-DEGRADABLE EROSION CONTROL BLANKET OR APPROVED EQUAL – REFER TO DETAIL
- CD — TEMPORARY ROCK CHECK DAM – REFER TO DETAILS

GRADING LEGEND

- EXISTING CONTOUR — XXX
- PROPOSED CONTOUR — XXX
- PROPOSED FLOWLINE DIRECTION — FL>
- PROPOSED SPOT GRADE ELEVATION — XXX.XX
- TC=PROPOSED TOP OF CURB ELEVATION; EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB — TC=XXX.XX, EP=XXX.XX
- FINISH FLOOR ELEVATION — FF=XXX.XX
- FINISH EDGE OF PAVEMENT AT GRADE — EP=XXX.XX
- MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES — MEG=XXX.XX
- PROPOSED STORM PIPE AND INLET/MANHOLE, REFER TO PLAN FOR INLET DESIGN AND DETAILS FOR BACKFILL SPECIFICATIONS AND INLET/MANHOLE SPECIFICATIONS PER CBU STANDARDS
- PROPOSED DUAL WALL TYPE 'S' HDPE PERFORATED STORM PIPE UNDERDRAIN WITH SOCK SLOPED AT 1.0% MIN. TO OUTLET CONTROL STRUCTURE AS INDICATED ON SHEET C501 – REFER TO PLAN FOR LOCATIONS, AND STORM SEWER CLEAN-OUT DETAIL REFER TO POND DETAILS ON SHEET C501 FOR MORE INFORMATION AND STORM CLEAN-OUT DETAIL — x" UD — C.O.
- STORMWATER QUALITY POND SOIL MIXTURE LIMITS: THIS IS FOR FILTRATION AND FOR GROWING GRASSES, SEDGES, PERENNIALS AND FORBS AS SPECIFIED ON THE LANDSCAPE PLANS. SEE SHEET C501 FOR DEPTH AND ADDITIONAL SPECIFICATIONS OF SOIL MIXTURE INCLUDING UNDERDRAINS FOR PONDS AS DETAILED ON SHEET C501 — SM

UTILITY LEGEND

- PROPOSED DOMESTIC SERVICE LINE, 1" MIN.; FINAL SIZE OF LATERAL TO BE SIZED BY THE PLUMBING ENGINEER, 48" COVER MIN., TYPE 'K' COPPER (SDR-21 PRESSURE PVC MAY ALSO BE USED FROM THE METER TO THE PROPOSED BUILDING ONLY) AND PRESSURE RATED FITTINGS PER CBU SPECIFICATIONS — DSL
- PROPOSED SANITARY SEWER PVC PIPE 4" MIN. SANITARY LATERAL AND SANITARY SEWER CLEAN-OUT, REFER TO SEPTIC SYSTEM PLAN SET FOR DETAILS AND SPECIFICATIONS, 24" COVER MIN., REFER TO 'MONROE FIRE PROTECTION DISTRICT FIRE STATION 26 SEPTIC SYSTEM' PLANS FOR PROPOSED PIPE TYPE, SIZE, LOCATIONS, INVERT ELEVATIONS, AND SLOPES TO PROPOSED SEPTIC SYSTEM. — SSL — C.O.
- SEE ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ALL SHADED AREAS

NOTE: ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BLOOMINGTON UTILITY SPECIFICATIONS.

NOTE: ALL INVERT ELEVATIONS PROVIDED DIRECTLY OUTSIDE THE BUILDINGS WERE GIVEN BY THE PLUMBING ENGINEER, CONTRACTOR SHALL COORDINATE WITH 'P' SERIES DRAWINGS FOR FINAL EXITING BUILDING UTILITY INVERT ELEVATIONS

NOTE: CONTRACTOR TO USE A STEEL SLEEVE WHEN IT IS SHOWN TO ROUTE PIPING THROUGH WALL, COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS

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PER INDIANA STATE LAW IC8-1-26.
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OWNER CONTACT INFO.

DEVELOPER: WASHINGTON TOWNSHIP OF MONROE COUNTY, 7974 N FOX HOLLOW RD., BLOOMINGTON, IN. 47408. CONTACT: (812)-269-8975 OR BARB@UESTTECH.COM

PROJECT NATURE & USE

THE PROPERTY'S USE WILL BE 'GOVERNMENTAL FACILITY' AND CLASSIFIED AS A HIGH INTENSITY USE. THIS SITE WILL INCLUDE THE ADDITION OF A NEW FIRE STATION AND PARKING LOT WITH ASSOCIATE LANDSCAPING AND DRAINAGE STRUCTURES. THE PROPERTY IS ZONED 'IP' IN THE MONROE COUNTY ZONING DISTRICT.

PARKING AND PAVEMENT NOTES

1. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC DEVICES, 1988 EDITION AS AMENDED.
2. ALL PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALT PAVEMENT / YELLOW ON CONCRETE PAVEMENT AND SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE.
3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE. ALL CURB RADIUS ARE TO BE 5' UNLESS INDICATED OTHERWISE.
4. CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.
6. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOLS.
7. CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).
8. CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA, INC. AND THE HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.

SITE IMPROVEMENT LEGEND

- (A) PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL
- (C) PROPOSED REINFORCED CONCRETE PAVEMENT – REFER TO DETAIL
- (F) PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
- (G) PROPOSED GRAVEL PAVEMENT. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
- (F1) PROPOSED MONOLITHIC CURB AND SIDEWALK – REFER TO DETAIL
- (13) PROPOSED 6" STANDING CONCRETE CURB – REFER TO DETAIL
- (CT) PROPOSED CONCRETE CURB TRANSITION, 6' LENGTH FROM 0" TO 6" CURB HEIGHT
- (R) PROPOSED SIDEWALK ACCESSIBLE RAMP, 1:12 SLOPE MAX., SEE GRADING PLAN. 5/8" DEEP GROOVES SPACED 2" O.C. – TRANSITION CURB FROM 0" TO 6" CURB HEIGHT OVER 6' LENGTH
- (21) PROPOSED PARKING MARKING; PAINTED, SOLID, WHITE, 4" WIDE
- (21A) PROPOSED ADA PARKING MARKING; PAINTED, SOLID, (BLUE FOR SYMBOL, WHITE FOR CROSS-HATCHED SPACE) – REFER TO DETAIL
- (APS) ACCESSIBLE RESERVED PARKING SIGN, REFER TO DETAIL
- (VA) VAN ACCESSIBLE SUPPLEMENTAL SIGN ACCORDING TO NATIONAL ADA STANDARDS – FASTEN BELOW ACCESSIBLE RESERVED PARKING SIGN WHERE INDICATED, REFER TO DETAIL
- SEE ARCHITECTURAL & STRUCTURAL DRAWINGS, DETAILS AND SPECIFICATIONS FOR ALL SHADED AREAS

EXISTING LEGEND

- EXISTING FENCE — X X X
- EXISTING WATER LINE — W
- EXISTING OVERHEAD UTILITY LINES — OHU
- EXISTING UNDERGROUND ELECTRIC LINES — UGE
- EXISTING UNDERGROUND TELEPHONE LINES — UGT
- EXISTING UNDERGROUND FIBER OPTIC LINES — FO
- EXISTING GAS LINE — GAS
- EXISTING SANITARY FORCEMAIN — FM
- EXISTING ELEVATION CONTOUR LINE — XXX
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING STORM SEWER AND INLET
- PROPERTY LINE

GENERAL LEGEND

- PROPERTY LINE
- PROPERTY LINE
- XXX/XXX — DEED BOOK AND PAGE
- T.B.R. — TO BE REMOVED
- T.R.U. — TO REMAIN UNDISTURBED
- X' SBL — SETBACK LINE
- PROPOSED ACCESSIBLE PARKING SPACE
- S.S.E. — SANITARY SEWER EASEMENT
- G.E. — GAS EASEMENT
- W.L.E. — WATER LINE EASEMENT
- E.E. — ELECTRIC EASEMENT
- D.E. — DRAINAGE EASEMENT
- U.E. — UTILITY EASEMENT

LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL ARRIVE ONSITE IN A HEALTHY, VIGOROUS CONDTION AND BE FREE OF PESTS AND DISEASE.
2. ALL PLANTS SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
3. ALL TREES SHALL BE STRAIGHT-TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
4. ALL TREES SHALL BE GUYED OR STAKED PLUMB AS SHOWN IN THE DETAILS.
5. ALL PLANTING MASS BEDS SHALL BE SPADE CUT UNLESS SPECIFIED WITH A MOW STRIP OR OTHER INSTALL EDGING. TREES TO HAVE A 5' DIAMETER MULCH RING.
6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED WHERE SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION. PLANTING LOCATIONS MAY REQUIRE ADJUSTMENTS IN FIELD TO AVOID OVERHEAD AND UNDERGROUND UTILITIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND SPECIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING AND LAWN AREAS INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, PRUNING, FERTILIZING, ETC., UNTIL WORK IS ACCEPTED IN FULL BY THE OWNER.
10. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
11. THE OWNER SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
12. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST OR DRIP IRRIGATION SYSTEM PRIOR TO INSTALLATION. WATER ALL SPECIMENS WITHIN 24 HOURS OF PLANTING.
13. ANY NEW OR TRANSPLANTED PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES PRIOR TO TOTAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY AND SIZE TO MEET ALL PLANT LIST SPECIFICATIONS.
14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
15. ALL SHRUB, GROUNDCOVER, ANNUAL AND HERBACEOUS PERENNIAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH TO A MINIMUM DEPTH OF FOUR INCHES.
16. DURING THE GROWING SEASON ALL ANNUALS AND HERBACEOUS PERENNIALS SHALL REMAIN IN A HEALTHY CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
17. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN ON PLANS.
19. ALL DISTURBED AREAS NOT INCLUDED IN LANDSCAPE MULCH BEDS ARE TO BE DEBRIS-RAKED AND FINED-GRADED AS NEEDED, THEN MULCH SEEDED (OR SODDED, PER PLAN) AND WATERED UNTIL A HEALTHY STAND OF TURF IS ESTABLISHED.
20. ANY PLANT OR OTHER LANDSCAPE MATERIAL SUBSTITUTIONS INSTALLED WITHOUT DESIGNER AND/OR OWNER APPROVAL SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER BEFORE, DURING AND AFTER INSTALLATION.

GRADING NOTES

1. NEW FINISHED CONTOURS SHOWN ARE TOP OF FUTURE PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED OR PLANTED.
2. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEEDED OR PLANTED SHALL RECEIVE 6" OF TOPSOIL. THIS TOPSOIL IS TO BE PLACED AND LEVELED BY THE CONTRACTOR.
3. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.
4. ALL AREAS NOT COVERED BY BUILDING OR PAVING ARE TO BE VEGETATED (SEEDED OR PER LANDSCAPE PLAN).
5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
6. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
7. BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. THE LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION.
8. CONTRACTOR SHALL COMPACT AND MAINTAIN A 30,000 SQ. FT. STONEBASE CONSTRUCTION LAYDOWN AREA W/ STONE ACCESS FROM THE CONSTRUCTION ENTRANCE AND STONE ACCESS TO THE BUILDING PAD.
9. THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND CANNOT SHOW EVERY ITEM NEEDED FOR A COMPLETE OPERATIONAL STORM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATING STORM SYSTEM.
10. ALL FILL SHALL BE FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTION. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT AS DICTATED BY THE TYPE OF FILL MATERIAL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILARLY TRACKED VEHICLE BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENTAGE OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (95 PERCENT OF MAXIMUM DRY DENSITY). IF THE SPECIFIED COMPACTION LIMITS ARE NOT MET, SUCH AREAS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.

GENERAL NOTES

1. BOUNDARY AND TOPO BY BYNUM FANYO AND ASSOCIATES, 528 NORTH WALNUT STREET, BLOOMINGTON, INDIANA 47404. PHONE (812) 332-8030
2. DEVELOPER: WASHINGTON TOWNSHIP OF MONROE COUNTY
3. PROJECT ADDRESS: 8650 NORTH CROSSOVER ROAD., BLOOMINGTON, IN. 47404
4. ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
6. HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.
7. EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.
8. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

ON-SITE UTILITY NOTES

1. ALL WATER PIPE 6" AND LARGER SHALL BE PRESSURE CLASS 350 DIP WATER PIPE CONFORMING TO ALL STATE AND LOCAL STANDARDS.
2. WATER MAIN FITTINGS 6" AND LARGER SHALL BE DUCTILE IRON CONFORMING TO AWWA/ANSI STANDARD SPECIFICATIONS C153/A21.53, LATEST REVISION.
3. 2" WATER MAINS SHALL BE SDR-21 (PR200) AND 4" PIPE MAY BE EITHER SDR-21 (PR200) OR C900 (DR-14).
4. ALL WATER SERVICE LINES CONNECTING TO 2" PVC MAINS SHALL BE 1" TYPE "K" COPPER. ALL SERVICE LINES FROM MAIN TO METER SHALL BE TYPE "K" COPPER WITH FLARED ENDS.
5. MECHANICAL RESTRAINTS SHALL BE PROVIDED AT ALL WATER LINE BENDS, OFFSETS, TEES, PLUGS, ETC...
6. ALL WATER LINE GATE VALVES OTHER THAN AIR RELEASE VALVES AND TAPPING VALVES SHALL BE CAST IRON BODY, FULLY BRONZE MOUNTED, WITH RESILIENT SEAT AND NON-RISING STEM AND SHALL BE MANUFACTURED BY M & H VALVE COMPANY, DARLING VALVE AND MANUFACTURING COMPANY, KENNEDY VALVE COMPANY, OR MUELLER COMPANY.
7. FLUSH HYDRANTS SHALL BE PLACED AT THE ENDS OF ALL WATER MAINS AND AT ANY HIGH POINTS IN THE LINE.
8. AIR RELEASE VALVES SHALL BE PROVIDED AT ALL HIGH POINTS OF WATER MAINS AND SHALL BE VAL-MATIC BRAND AND SHALL INCORPORATE THE OPTIONAL VACUUM-CHECK FEATURE.
9. ALL FIRE HYDRANTS SHALL BE MANUFACTURED BY KENNEDY GUARDIAN OR MUELLER CENTURION.
10. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
11. WATER AND SANITARY SEWER MAINS SHALL HAVE A MINIMUM COVER OF 4'-0" ABOVE TOP OF PIPE.
12. ALL SPRINKLER, DOMESTIC, AND SANITARY LEADS TO THE BUILDING SHALL END AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
13. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN INCHES (18").
14. GRAVITY SANITARY SEWER PIPE 6" TO 15" SHALL BE CONSTRUCTED OF SDR-35 PVC.
15. THE UPSTREAM ENDS OF ALL SANITARY SEWER LATERALS SHALL BE CLEARLY MARKED WITH A 4x4 TREATED POST EXTENDING 3' BELOW GRADE AND 1' ABOVE GRADE.
16. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
17. SEE SITE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
18. SITE CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
19. ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
20. ALL CATCH BASIN GRATE AND FRAMES ARE TO BE BY EAST JORDAN IRON WORKS.
21. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
22. BUILDING CONTRACTOR SHALL PROVIDE & INSTALL A PERMANENT INDICATING VALVE 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATION POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST & WILL REMAIN AS PART OF THE SYSTEM ONCE ALL TESTING IS COMPLETED. THE FIRE LINE MAIN WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM. SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FIRE MAIN WITH THE BUILDING CONTRACTOR.
23. ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT TOM AXSOM AT (812)349-3633 TO SCHEDULE THE MEETING.
24. CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CBU INSPECTOR MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS WEEKENDS, A CBU DESIGNATED HOLIDAY, OR BEYOND NORMAL CBU WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CBU WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT AT (812)349-3660.

NOTE: ONLY NOTES ON THIS SHEET MARKED WITH AN ☒ APPLY TO THIS PROJECT.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

⚠ 7/16/24 - Revision 1 items. Decrease water size to 1" per state comment

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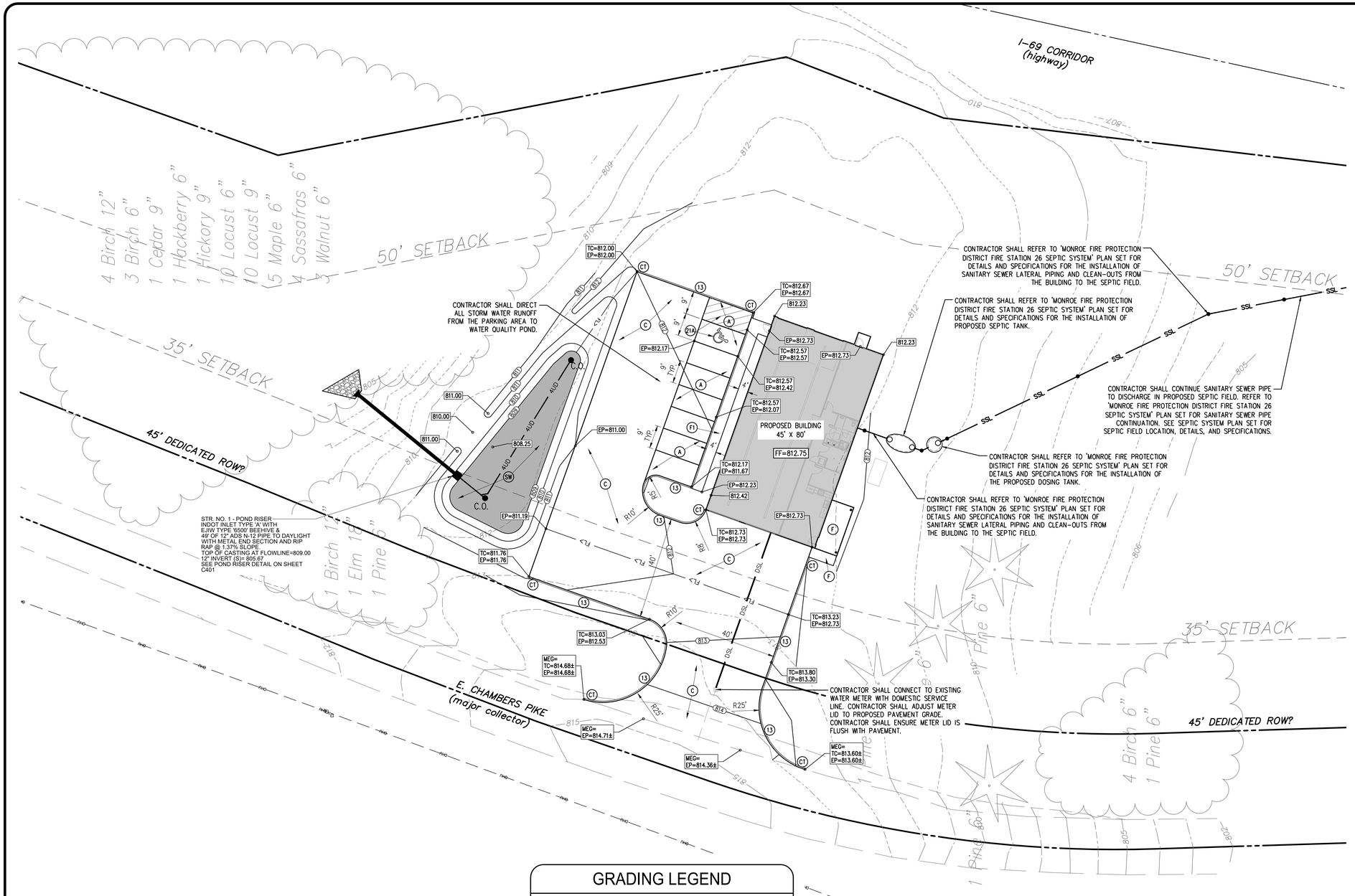
JEFFREY S. FANYO — No. 60018283 — STATE OF INDIANA — PROFESSIONAL ENGINEER — 05-10-24

certified by:

PROPOSED
WASHINGTON TOWNSHIP
FIRE STATION
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

title: GENERAL NOTES & LEGENDS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C101
project no.: 402131



EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING ELEVATION CONTOUR LINE	XXX
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

STATEMENT OF PERFORMANCE STANDARDS

ON BEHALF OF THE OWNER, WASHINGTON TOWNSHIP OF MONROE COUNTY, BYNUM FANYO & ASSOCIATES, INC. INTENDS TO COMPLY WITH ALL STANDARDS SET FORTH IN THE MONROE COUNTY ZONING ORDINANCE THAT INCLUDES CHAPTER 802. WE PLAN ON WORKING CLOSELY WITH STAFF, PLAN COMMISSION MEMBERS, AND THE OWNER TO CREATE A QUALITY SITE PLAN AND SUCCESSFUL PROJECT THAT WILL EXEMPLIFY MONROE COUNTY'S INTERESTS, ORDINANCE AND 'GOVERNMENTAL FACILITY' USE FOR THIS SITE. THESE STANDARDS ARE AS FOLLOWS:

ALL PERMITTED USES ESTABLISHED OR PLACED INTO OPERATION AFTER THE EFFECTIVE DATE OF THE MONROE COUNTY ORDINANCE SHALL COMPLY WITH THE FOLLOWING PERFORMANCE STANDARDS IN THE INTEREST OF PROTECTING PUBLIC HEALTH, SAFETY AND WELFARE, AND LESSENING INJURY TO PROPERTY. NO USE IN EXISTENCE ON THE EFFECTIVE DATE OF THIS ORDINANCE SHALL BE SO ALTERED AS TO CONFLICT (OR INCREASE AND EXISTING CONFLICT) WITH THESE STANDARDS.

(A) FIRE PROTECTION.
FIRE FIGHTING EQUIPMENT AND PREVENTION MEASURES ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT SHALL BE READILY AVAILABLE AND APPARENT WHEN ANY ACTIVITY INVOLVING THE HANDLING OR STORAGE OF FLAMMABLE OR EXPLOSIVE MATERIALS IS CONDUCTED.

(B) ELECTRICAL DISTURBANCE
NO USE SHALL CAUSE ELECTRICAL DISTURBANCE ADVERSELY AFFECTING RADIO, TELEVISION OR OTHER EQUIPMENT IN THE VICINITY OF THE USE.

(C) NOISE.
NO USE SHALL PRODUCE NOISE IN SUCH A MANNER AS TO BE OBJECTIONABLE BECAUSE OF VOLUME, FREQUENCY, INTERMITTENCE, HEAT, SHRILLNESS, OR VIBRATION. SUCH NOISE SHALL BE MUFFLED OR OTHERWISE CONTROLLED SO AS NOT TO BECOME DETRIMENTAL, PROVIDED HOWEVER, THAT PUBLIC SAFETY SIRENS AND RELATED APPARATUS USED SOLELY FOR PUBLIC PURPOSES SHALL BE EXEMPT FROM THIS STANDARD.

(D) VIBRATION
NO USE SHALL CAUSE VIBRATIONS OR CONCUSSIONS DETECTABLE BEYOND LOT LINES WITHOUT THE AID OF INSTRUMENTS.

(E) AIR POLLUTION.
NO USE SHALL DISCHARGE ACROSS LOT LINES FLY ASH, DUST, SMOKE, VAPORS, NOXIOUS, TOXIC OR CORROSIVE MATTER, OR OTHER AIR POLLUTANTS IN SUCH CONCENTRATION AS TO BE DETRIMENTAL TO HEALTH, ANIMALS, VEGETATION OR PROPERTY AND/OR IN CONFLICT
WITH RELEVANT AIR QUALITY STANDARDS ESTABLISHED BY STATE AND/OR FEDERAL AGENCIES.

(F) HEAT AND GLARE.
NO USE SHALL PRODUCE HEAT OR GLARE IN SUCH MANNER AS TO CREATE A NUISANCE.
PERCEPTIBLE FROM ANY POINT BEYOND THE LOT LINES OF THE PROPERTY ON WHICH THE USE IS CONDUCTED. IN NONRESIDENTIAL AREAS, ANY LIGHTING USED TO ILLUMINATE AN OFF-STREET PARKING AREA, LOADING AREA, DRIVEWAY, OR SERVICE DRIVE SHALL BE SHIELDED WITH APPROPRIATE LIGHT FIXTURES DIRECTING THE LIGHT DOWN AND AWAY FROM ADJACENT PROPERTIES IN ORDER THAT THE ILLUMINATION AT ANY PROPERTY LINE SHALL NOT
EXCEED ONE (1) FOOT CANDLE. ALL EXTERIOR LIGHTING SHALL BE HOODED AND SHIELDED SO THAT THE LIGHT SOURCE (I.E. BULB, FILAMENT, ETC.) IS NOT DIRECTLY VISIBLE FROM THE RESIDENTIAL PROPERTY LINES. IN RESIDENTIAL AREAS, EXTERIOR LIGHTING AT ANY PROPERTY LINE SHALL NOT EXCEED ONE (1) FOOT CANDLE.

(G) WATER POLLUTION
NO USE SHALL PRODUCE EROSION OR OTHER POLLUTANTS IN SUCH QUANTITY AS TO BE
DETRIMENTAL TO ADJACENT PROPERTIES AND CONFLICT WITH RELEVANT WATER POLLUTION STANDARDS ESTABLISHED BY STATE AND/OR FEDERAL AGENCIES.

(H) WASTE MATTER.
NO USE SHALL ACCUMULATE WITHIN THE LOT, OR DISCHARGE BEYOND THE BOUNDARY LINES OF THE LOT ON WHICH THE USE IS LOCATED, ANY WASTE MATTER, WHETHER LIQUID OR SOLID, IN VIOLATION OF APPLICABLE PUBLIC HEALTH, SAFETY AND WELFARE STANDARDS AND REGULATIONS.

GRADING LEGEND

EXISTING CONTOUR	XXX
PROPOSED CONTOUR	XXX
PROPOSED FLOWLINE DIRECTION	FL>
PROPOSED SPOT GRADE ELEVATION	XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	TC=XXX.XX EP=XXX.XX
FINISH FLOOR ELEVATION	FF=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE	EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	MEG=XXX.XX
PROPOSED STORM PIPE AND INLET/MANHOLE, REFER TO PLAN FOR INLET DESIGN AND DETAILS FOR BACKFILL SPECIFICATIONS AND INLET/MANHOLE SPECIFICATIONS PER CBU STANDARDS	
PROPOSED DUAL WALL TYPE 'S' HDPE PERFORATED STORM PIPE UNDERDRAIN WITH SOCK SLOPED AT 1.0% MIN. TO OUTLET CONTROL STRUCTURE AS INDICATED ON SHEET C501. REFER TO PLAN FOR LOCATIONS AND STORM SEWER CLEAN-OUT DETAIL REFER TO POND DETAILS ON SHEET C501 FOR MORE INFORMATION AND STORM CLEAN-OUT DETAIL	X" UD C.O.
STORMWATER QUALITY POND SOIL MIXTURE LIMITS: THIS IS FOR FILTRATION AND FOR GROWING GRASSES, SEDGES, PERENNIALS AND FORBS AS SPECIFIED ON THE LANDSCAPE PLANS. SEE SHEET C501 FOR DEPTH AND ADDITIONAL SPECIFICATIONS OF SOIL MIXTURE INCLUDING UNDERDRAINS FOR PONDS AS DETAILED ON SHEET C501	SW

SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING - REFER TO DETAIL
C	PROPOSED REINFORCED CONCRETE PAVEMENT - REFER TO DETAIL
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
G	PROPOSED GRAVEL PAVEMENT. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
F1	PROPOSED MONOLITHIC CURB AND SIDEWALK - REFER TO DETAIL
I3	PROPOSED 6" STANDING CONCRETE CURB - REFER TO DETAIL
C1	PROPOSED CONCRETE CURB TRANSITION, 6' LENGTH FROM 0" TO 6" CURB HEIGHT
R	PROPOSED SIDEWALK ACCESSIBLE RAMP, 1:12 SLOPE MAX., SEE GRADING PLAN. 5/8" DEEP GROOVES SPACED 2" O.C. - TRANSITION CURB FROM 0" TO 6" CURB HEIGHT OVER 6' LENGTH
21	PROPOSED PARKING MARKING; PAINTED, SOLID, WHITE, 4" WIDE
21A	PROPOSED ADA PARKING MARKING; PAINTED, SOLID, (BLUE FOR SYMBOL, WHITE FOR CROSS-HATCHED SPACE) - REFER TO DETAIL
APS	ACCESSIBLE RESERVED PARKING SIGN, REFER TO DETAIL
VA	VAN ACCESSIBLE SUPPLEMENTAL SIGN ACCORDING TO NATIONAL ADA STANDARDS - FASTEN BELOW ACCESSIBLE RESERVED PARKING SIGN WHERE INDICATED, REFER TO DETAIL
	SEE ARCHITECTURAL & STRUCTURAL DRAWINGS, DETAILS AND SPECIFICATIONS FOR ALL SHADED AREAS

UTILITY LEGEND

PROPOSED DOMESTIC SERVICE LINE, 1" MIN.: DSL
FINAL SIZE OF LATERAL TO BE SIZED BY THE PLUMBING ENGINEER, 48" COVER MIN., TYPE 'K' COPPER (SDR-21 PRESSURE PVC MAY ALSO BE USED FROM THE METER TO THE PROPOSED BUILDING ONLY) AND PRESSURE RATED FITTINGS PER CBU SPECIFICATIONS

PROPOSED SANITARY SEWER PVC PIPE SSL C.O.
4" MIN. SANITARY LATERAL AND SANITARY SEWER CLEAN-OUT, REFER TO SEPTIC SYSTEM PLAN SET FOR DETAILS AND SPECIFICATIONS, 24" COVER MIN., REFER TO 'MONROE FIRE PROTECTION DISTRICT FIRE STATION 26 SEPTIC SYSTEM' PLANS FOR PROPOSED PIPE TYPE, SIZE, LOCATIONS, INVERT ELEVATIONS, AND SLOPES TO PROPOSED SEPTIC SYSTEM.

SEE ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ALL SHADED AREAS

NOTE: ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BLOOMINGTON UTILITY SPECIFICATIONS.

NOTE: ALL INVERT ELEVATIONS PROVIDED DIRECTLY OUTSIDE THE BUILDINGS WERE GIVEN BY THE PLUMBING ENGINEER, CONTRACTOR SHALL COORDINATE WITH 'P' SERIES DRAWINGS FOR FINAL EXITING BUILDING UTILITY INVERT ELEVATIONS

NOTE: CONTRACTOR TO USE A STEEL SLEEVE WHEN IT IS SHOWN TO ROUTE PIPING THROUGH WALL, COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS

NOTE TO CONTRACTOR

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20 0 20 40
Scale 1" = 20 ft

revisions:
5/10/24 - Issued for construction
7/16/24 - Revision 1 items. Decrease water size to 1" per state comment

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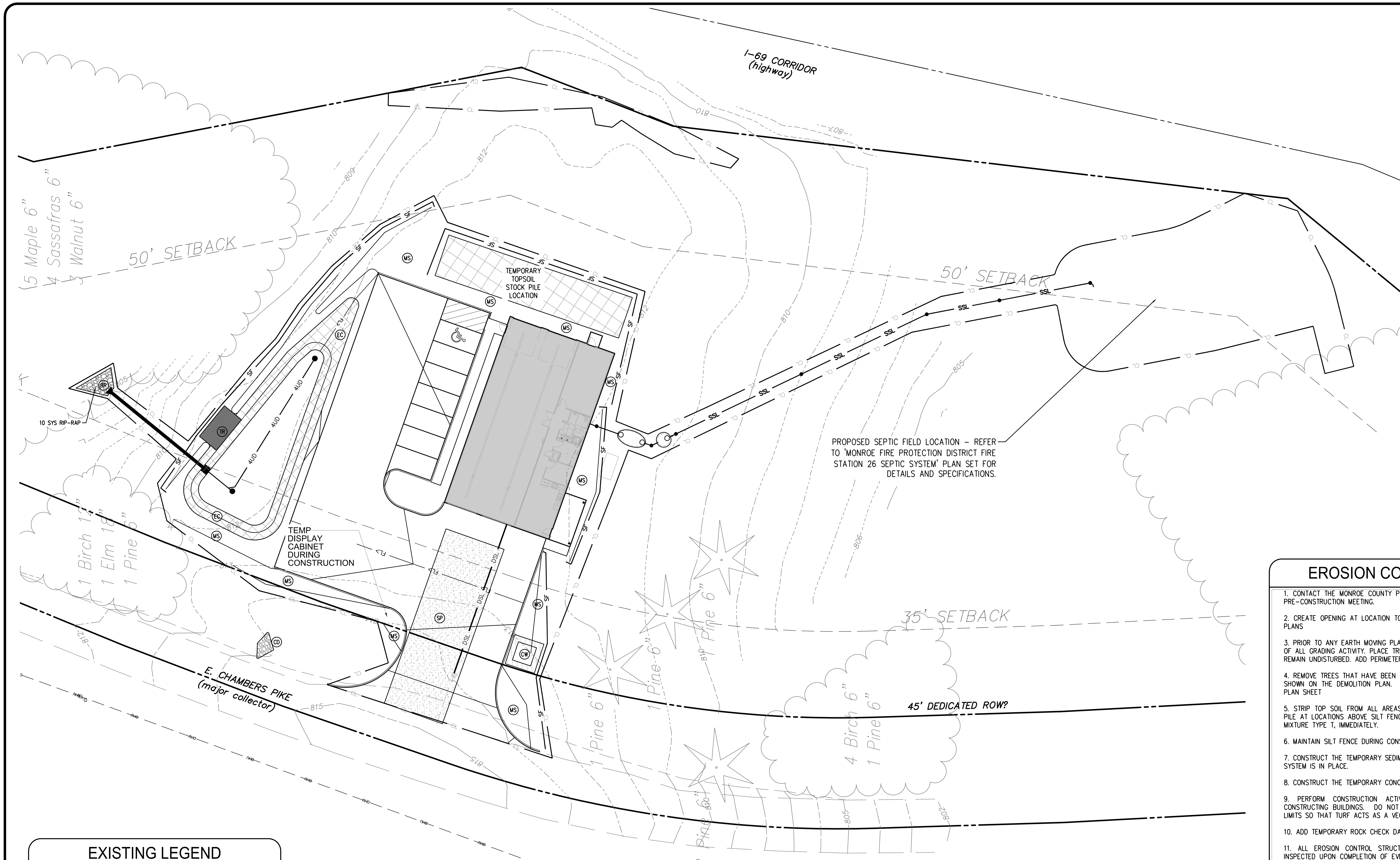
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
05.10.24
certified by:

PROPOSED
WASHINGTON TOWNSHIP
FIRE STATION
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

title: SITE, UTILITY, GRADING & DRAINAGE PLAN

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C201
project no.: 402131



EXISTING LEGEND

EXISTING FENCE	—X—X—X—
EXISTING WATER LINE	—— W ——
EXISTING OVERHEAD UTILITY LINES	—— OHU ——
EXISTING UNDERGROUND ELECTRIC LINES	—— UGE ——
EXISTING UNDERGROUND TELEPHONE LINES	—— UGT ——
EXISTING UNDERGROUND FIBER OPTIC LINES	—— FO ——
EXISTING GAS LINE	—— GAS ——
EXISTING SANITARY FORCEMAIN	—— FM ——
EXISTING ELEVATION CONTOUR LINE	- - - -XXX- - - -
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

EROSION CONTROL LEGEND

—— SF ——	TEMPORARY SILTATION FENCE – REFER TO DETAILS
—— CL ——	CONSRUCTION LIMITS: DELINEATED BY PROPERTY LINE UNLESS OTHERWISE SPECIFIED
MS	MULCH SEEDING – REFER TO DETAILS
RR	D-50 RIP-RAP STORM OUTLET PROTECTION – REFER TO DETAIL AND PLAN FOR MIN. QUANTITY (PERMANENT)
SP	25' X 75' STONE PAD, 6" DEEP TO KEEP FROM TRACKING MUD OFF SITE – REFER TO DETAIL (TEMPORARY DURING CONSTRUCTION)
CW	TEMPORARY CONCRETE WASHOUT AREA – REFER TO DETAIL
TR	'NORTH AMERICAN GREEN BRAND SERIES SC-250' TURF REINFORCEMENT MATTING – PERMANENT – APPLY TO OUTLET FROM POND AS INDICATED
EC	PERMANENT EROSION CONTROL MATTING – CURLEX NET-FREE BRAND 100% BIO-DEGRADABLE EROSION CONTROL BLANKET OR APPROVED EQUAL – REFER TO DETAIL
CD	TEMPORARY ROCK CHECK DAM – REFER TO DETAILS

EROSION CONTROL SEQUENCE

1. CONTACT THE MONROE COUNTY PLANNING DEPARTMENT AT: (812) 349-2960 FOR A PRE-CONSTRUCTION MEETING.

2. CREATE OPENING AT LOCATION TO INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON PLANS

3. PRIOR TO ANY EARTH MOVING PLACE SILTATION FENCE ALONG THE DOWNSTREAM SIDE OF ALL GRADING ACTIVITY. PLACE TREE PROTECTION AROUND ALL VEGETATIVE AREAS TO REMAIN UNDISTURBED. ADD PERIMETER CONTROLS.

4. REMOVE TREES THAT HAVE BEEN VERIFIED IN CONSTRUCTION ZONE OF THIS SITE AND SHOWN ON THE DEMOLITION PLAN. FOLLOW REMAINDER OF SELECTIVE SITE DEMOLITION PLAN SHEET

5. STRIP TOP SOIL FROM ALL AREAS TO BE DISTURBED BY CONSTRUCTION AND STOCK PILE AT LOCATIONS ABOVE SILT FENCE SHOWN ON PLAN. SEED WITH TEMPORARY SEED MIXTURE TYPE T, IMMEDIATELY.

6. MAINTAIN SILT FENCE DURING CONSTRUCTION AND KEEP CLEAR OF DEBRIS.

7. CONSTRUCT THE TEMPORARY SEDIMENT PONDS BEFORE THE PERMANENT STORMWATER SYSTEM IS IN PLACE.

8. CONSTRUCT THE TEMPORARY CONCRETE WASHOUT AND PROVIDE ADEQUATE SIGNAGE.

9. PERFORM CONSTRUCTION ACTIVITIES AS SHOWN ON THE PLANS INCLUDING CONSTRUCTING BUILDINGS. DO NOT DISTURB TURF AREAS OUTSIDE OF CONSTRUCTION LIMITS SO THAT TURF ACTS AS A VEGETATIVE FILTER STRIP.

10. ADD TEMPORARY ROCK CHECK DAM AS INDICATED ON PLANS.

11. ALL EROSION CONTROL STRUCTURES SHALL BE KEPT IN WORKING ORDER AND INSPECTED UPON COMPLETION OF EVERY RAIN EVENT. SEDIMENT CLEANUP SHALL OCCUR AT THE END OF EACH WORKING DAY OR IN CASES OF SAFETY IMMEDIATELY. ADD ADDITIONAL MEASURES WHEN NECESSARY.

12. UPON COMPLETION OF CONSTRUCTION OF ALL IMPROVEMENTS REDISTRIBUTE TOP SOIL TO ALL PROPOSED GRASSED AREAS.

13. MULCH SEED ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF ALL EARTHMOVING AND UNDERGROUND UTILITY WORK IN ACCORDANCE WITH INDOT SS-621 SEED MIXTURE TYPE U.

14. FERTILIZE AND WATER SEEDED AREAS UNTIL MATURE TURF IS ESTABLISHED.

15. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON THE ESTABLISHMENT OF THE TURF.

16. CALL THE MONROE COUNTY PUBLIC WORKS DEPT. AT (812) 349-2960 TO SCHEDULE A FINAL POND MATERIALS INSPECTION BEFORE BEING PLACED INTO THE PERMANENT POND. THESE MATERIALS TO BE INSPECTED INCLUDE THE PERMANENT POND SOIL.

17. REMOVE THE TEMPORARY COMPONENTS FOR WATER QUALITY AND INSTALL THE PERMANENT WATER QUALITY BASIN IN PLACE OF THE TEMPORARY SEDIMENT BASIN. ESTABLISH VEGETATION WITHIN THE WATER QUALITY POND.

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revisions:

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PROPOSED
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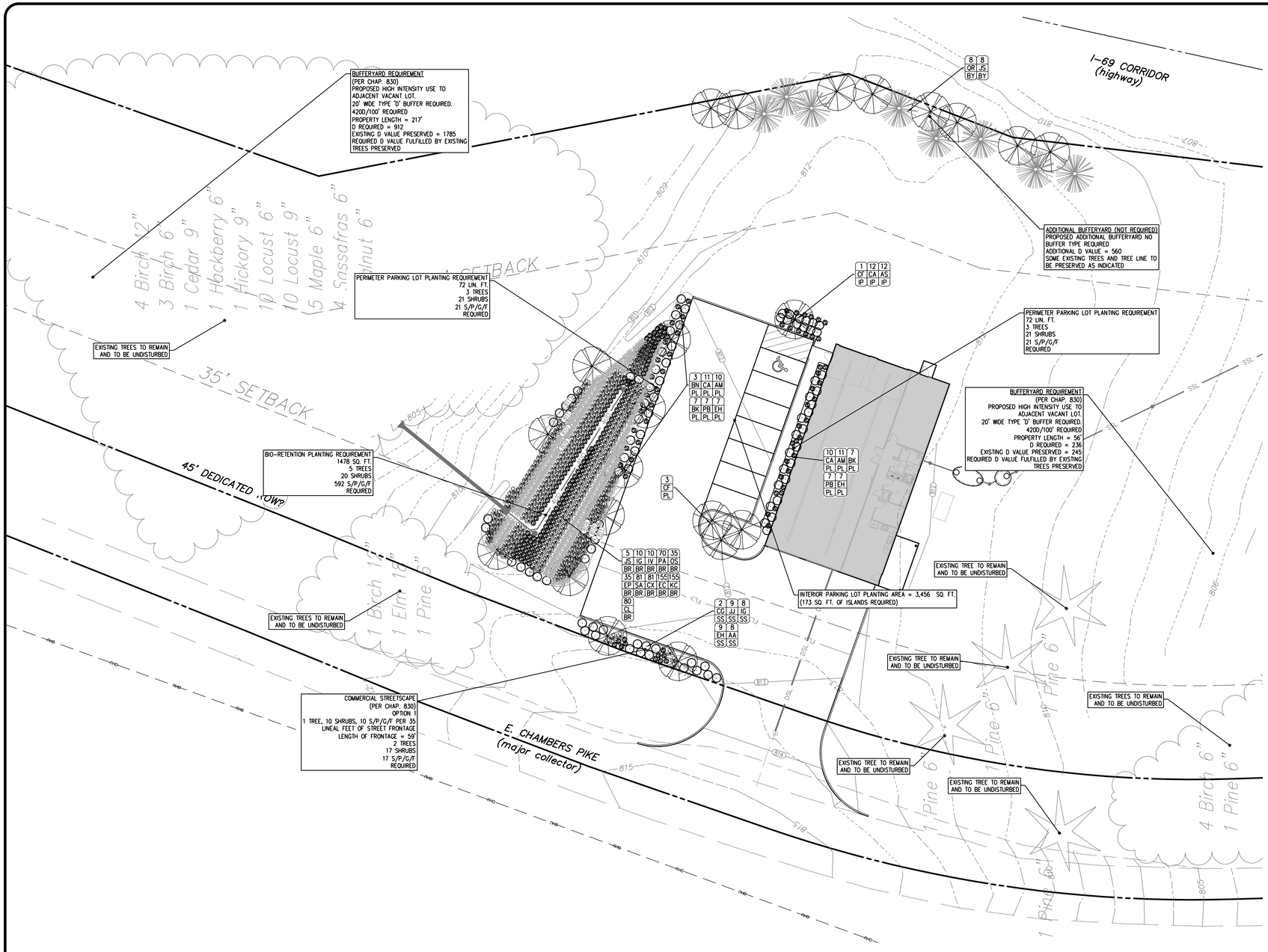
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

title: STORMWATER POLLUTION PREVENTION PLAN

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C301
project no.: 402131



PLANT INVENTORY

	KEY	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	SPACING	SPECIE (D) VALUE	TOTAL QTY	TOTAL (D) VALUE
INTERIOR PARKING LOT PLANTINGS	CF	CORNUS FLORIDA	FLOWERING DOGWOOD	2" CAL., B & B	SEE PLAN	35	1	35
	CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA	1 GAL. CONTAINER	SEE PLAN	8	12	96
	AS	ASTER FIRMUS	SHINING ASTER	2" X 3" PLUGS	SEE PLAN	5	12	60
BIO-RETENTION AREA PLANTINGS	JS	TAXODIUM DISTICHUM	BALD CYPRESS	6' TALL MIN.	SEE PLAN	35	5	175
	IG	ILEX GLABRA	INKBERRY	2" X 3" PLUGS	SEE PLAN	5	10	50
	IV	ILEX VERTICILLATA	WINTERBERRY	2" X 3" PLUGS	SEE PLAN	5	10	50
	PA	IRIS VERSICOLOR	WILD IRIS	2" X 3" PLUGS	SEE PLAN	5	70	350
	AC	ASCLEPIAS INCARNATA	SWAMP MILKWEED	2" X 3" PLUGS	SEE PLAN	5	35	175
	EP	ECHINACEA PURPUREA	BROAD LEAVED PURPLE CONEFLOWER	2" X 3" PLUGS	SEE PLAN	5	35	175
	EC	ELYMUS CANADENSIS	CANADA WILD RYE	2" X 3" PLUGS	SEE PLAN	5	155	775
	KC	KOELERIA CRISTATA	JUNE GRASS	2" X 3" PLUGS	SEE PLAN	5	155	775
	SA	SCIRPUS ACUTUS	HARDSTEM BULRUSH	2" X 3" PLUGS	SEE PLAN	5	81	405
	CX	CAREX ANNECTANS XANTHOCARPA	YELLOW FOX SEDGE	2" X 3" PLUGS	SEE PLAN	5	81	405
	CL	CAREX LACUSTRIS	LAKE SEDGE	2" X 3" PLUGS	SEE PLAN	5	80	400
PARKING LOT PERIMETER PLANTINGS	BN	BETULA NIGRA	RIVER BIRCH	2" CAL., B & B	SEE PLAN	35	3	105
	CF	CORNUS ALTERNIFOLIA	FLOWERING DOGWOOD	2" CAL., B & B	SEE PLAN	35	3	105
	CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA	1 GAL. CONTAINER	SEE PLAN	8	21	168
	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	3 GAL. CONTAINER	SEE PLAN	8	21	168
	BK	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	2" X 3" PLUGS	SEE PLAN	5	14	70
	PB	ECHINACEA PURPUREA	BROAD LEAVED PURPLE CONEFLOWER	2" X 3" PLUGS	SEE PLAN	5	14	70
	EH	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	2" X 3" PLUGS	SEE PLAN	5	14	70
BUFFER YARD	JS	TAXODIUM DISTICHUM	BALD CYPRESS	6' TALL MIN.	SEE PLAN	35	8	280
	QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL., B & B	SEE PLAN	35	8	280
COMMERCIAL STREET SCAPE	CG	CARYA GLABRA	PIGNUT HICKORY	2" CAL., B & B	SEE PLAN	35	2	70
	JJ	JUNIPERUS	COMMON JUNIPER	1 GAL. CONTAINER	SEE PLAN	8	9	72
	IG	ILEX GABRA 'COMPACTA'	INKBERRY	1 GAL. CONTAINER	SEE PLAN	8	8	64
	EH	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	2" X 3" PLUGS	SEE PLAN	5	9	45
	AA	ASTER AZUREUS	SKY BLUE ASTER	2" X 3" PLUGS	SEE PLAN	5	8	40

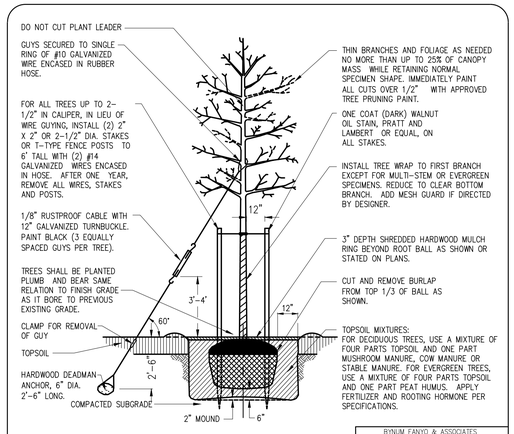
XX PLANT QUANTITY
XX PLANT KEY DESIGNATION
XX REQUIREMENT DESIGNATION

PL=PARKING LOT PERIMETER PLANTINGS
BR=BIO-RETENTION PLANTINGS
IP=INTERNAL PARKING LOT PLANTINGS
SS=STREETSCAPE AREA PLANTINGS
BY=BUFFERYARD PLANTINGS

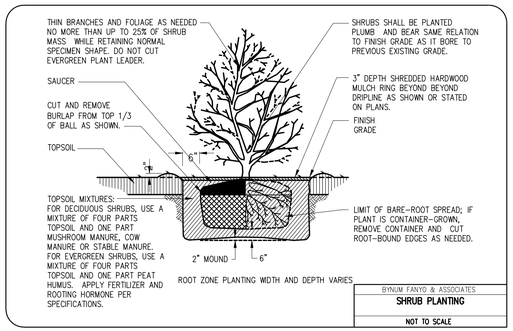
(D) VALUE SUBTOTAL:	5242
STREET PLANTING (D) VALUE:	291
TOTAL (D) VALUE PROVIDED:	5533

NOTE: INSTALL ALL PERENNIAL AND IRIS PLANTINGS IN THE INTERIOR OF THE BIO-RETENTION PLANTING AREA IN CLUMPS BY TYPE OF PLANTINGS. INSTALL SEDGES/GRASSES ON EXTERIOR OF BIO-RETENTION PLANTING AREA.

NOTE: THE INSTALLATION OF THE POND MATERIALS INCLUDING SOILS AND PLANTINGS SHALL BE DIRECTLY COORDINATED WITH THE MONROE COUNTY PUBLIC WORKS DEPARTMENT. CONTRACTOR TO CONTACT THE MONROE COUNTY PUBLIC WORKS DEPARTMENT AT: (812) 349-2960 48 HOURS IN ADVANCE TO START OF INSTALLATION OF THE PERMANENT STORMWATER BIO-SWALE



BYNUM FANYO & ASSOCIATES
TREE PLANTING WITH GUYING OR STAKING
NOT TO SCALE



BYNUM FANYO & ASSOCIATES
SHRUB PLANTING
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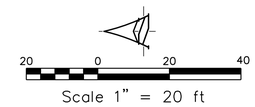

Scale 1" = 20 ft

NOTE TO CONTRACTOR

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revisions:

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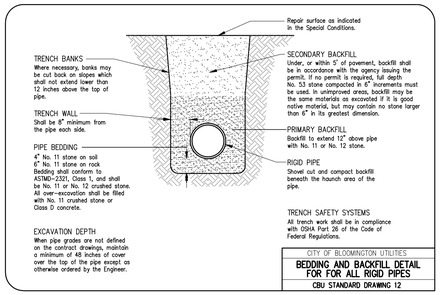
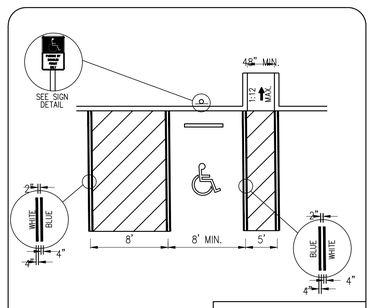
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
05-10-24
certified by:

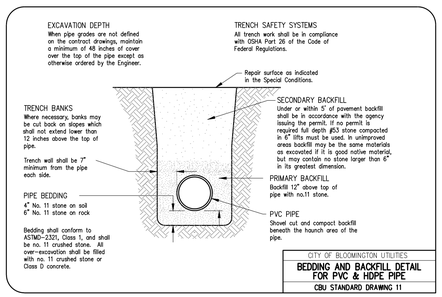
PROPOSED
WASHINGTON TOWNSHIP
FIRE STATION
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

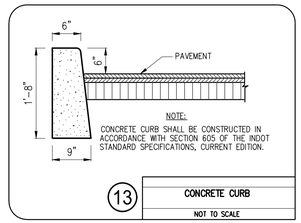
title: LANDSCAPE PLAN

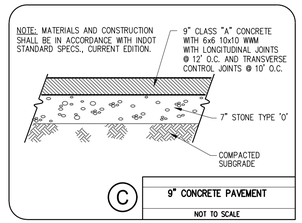
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C401
project no.: 402131

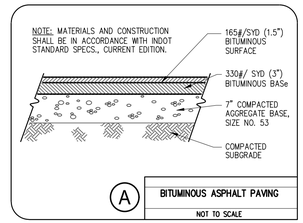


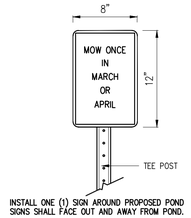




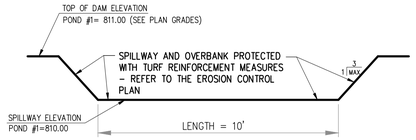








POND SIGN
NOT TO SCALE



EARTHEN EMERGENCY SPILLWAY SECTION
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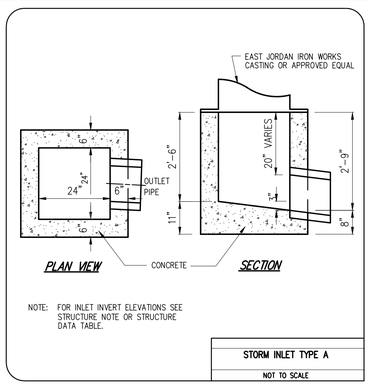

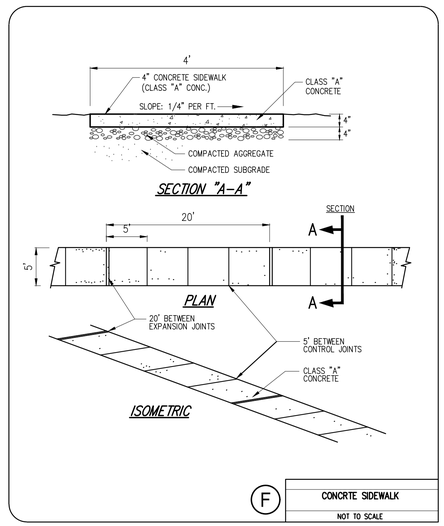

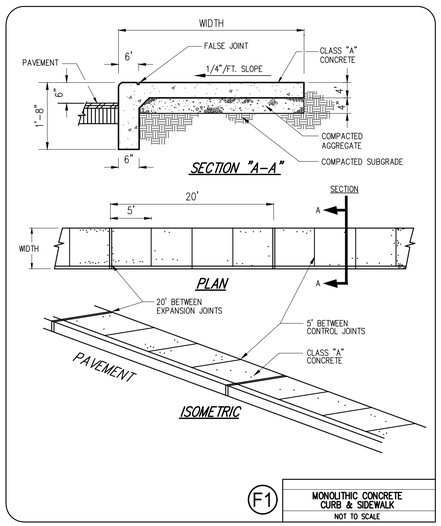

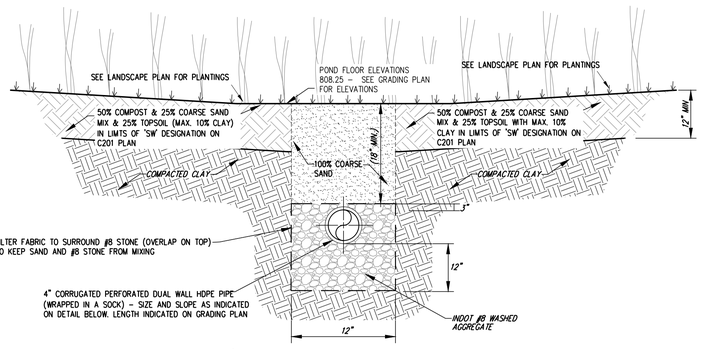

UD TYPICAL BIO-SWLE/WATER QUALITY POND UNDERDRAIN SYSTEM
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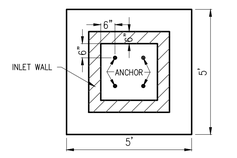

ANCHOR LOCATIONS
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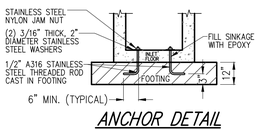

ANCHOR DETAIL
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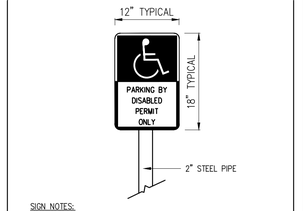
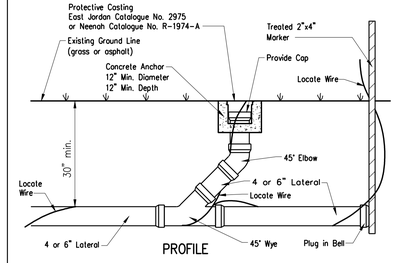


SIGN NOTES:
1. SUPPLY ONLY SIGN SHOWN ABOVE, ALL OTHER SIGNS BY OWNER.
2. LOCATE SIGN AS SHOWN ON SITE PLAN.
3. SIGN TO BE MADE OF 0.063" STEEL PAINTED WITH TRAFFIC PAINT
4. ACCESSIBLE SIGN TO BE AS REQUIRED BY LOCAL CODE. PAINT SIGN BLUE AND WHITE.
5. FASTEN SIGN TO 2" GALVANIZED STEEL PIPE

ACCESSIBLE PARKING SIGN
NOT TO SCALE



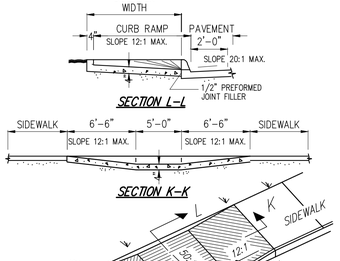
SANITARY LATERAL & CLEANOUT NOTES

1. ALL CLEAN-OUTS, WEATHER IN GRASSY AREAS OR IN PAVEMENT, SHALL BE SUB-SURFACE AND PROTECTED BY A SUITABLE METAL CASTING, SUCH AS EAST JORDAN IRON WORKS CATALOGUE NO. 2975 OR NEENAH CATALOGUE NO. R-1974-A. IN GRASSY AREAS, THE CASTING SHALL BE PROVIDED WITH A CIRCULAR CONCRETE COLLAR FLUSH WITH THE TOP OF THE CASTING AND THE GROUND SURFACE. THE COLLAR SHALL BE MINIMUM 6" THICK AND SHALL EXTEND AT LEAST 8" BEYOND THE OUTSIDE OF THE CASTING ON ALL SIDES. IN PAVED AREAS, THE TOP OF CASTING SHALL BE FLUSH WITH THE PAVEMENT SURFACE. TOP OF CLEAN-OUT SHALL BE NO MORE THAN 3" BELOW THE TOP OF CASTING.

2. A CLEAN-OUT SHALL BE PROVIDED ON SANITARY SEWER LATERALS EVERY 90 FEET AND AT ALL BENDS.

3. A #10 INSULATED SOLID COPPER LOCATOR WIRE SHALL BE WRAPPED AROUND ALL NONMETALLIC PIPES IN THE ROAD RIGHT OF WAYS SO THAT ONE REVOLUTION IS MADE AT LEAST EVERY PIPE JOINT. SPLICES ARE TO BE MADE WITH AN APPROVED CONNECTOR, AND ARE TO BE SUITABLY PROTECTED AGAINST CORROSION. THE WIRE IS TO BE BROUGHT TO THE SURFACE AT THE PROPERTY LINE WITH A CLEAN-OUT IN A CASTING. ALSO SEE (STANDARD SANITARY LATERAL CLEAN-OUT DETAIL 19) CBU CONSTRUCTION SPECIFICATIONS.

CITY OF BLOOMINGTON UTILITIES
STANDARD SANITARY LATERAL CLEAN-OUT FOR 4" & 6" PIPES
CBU STANDARD DETAIL NUMBER 19



TEMPORARY AND PERMANENT BIO SWALE/WATER QUALITY POND DETAIL
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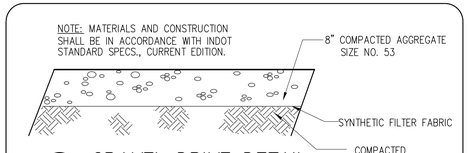

G GRAVEL DRIVE DETAIL
NOT TO SCALE

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revisions:

ARCHITECTURE
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JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
05-10-24
certified by:

PROPOSED
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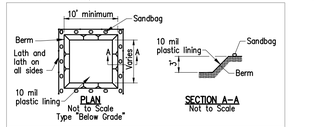
FIRE STATION
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

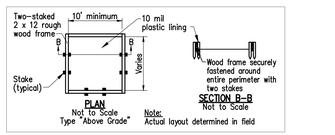
title: MISCELLANEOUS DETAILS

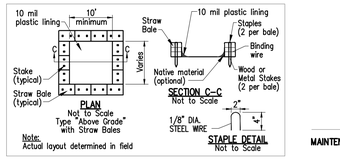
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C501
project no.: 402131

(CW) TEMPORARY CONCRETE WASHOUT AREA

REQUIREMENTS **Capacity:** Temporary washout facilities shall be constructed below grade following below grade notes and details below. Temporary washout facilities shall be constructed and maintained in sufficient quality and size to contain all liquid and concrete waste generated by washout operations.
Type: Below grade concrete washout facilities are typical. Above grade facilities are used only if excavation is not practical.
Location: Facilities shall be located a minimum of 50' from storm drain inlets, open drainage facilities, and water courses.
Plastic Lining Material: Minimum 10 mil polyethylene sheeting and should be free of holes, tears or other defects.
Straw Bale Dimensions: Approximately 14 in. x 18 in. x 36 in.
Bale Anchoring: Two 36-in. long (minimum) steel rebars or 2 x 2-in. hardwood stakes driven through each bale.







INSTALLATION

* Temporary concrete washout facilities shall be constructed as shown in the above details, and as described below. All temporary washout facilities shall have at minimum 10' width, 3' depth, and sufficient length to contain all liquid and concrete waste generated.

"Below Grade" (Required)
1. A pit shall be excavated with a minimum width of 10', depth of 3' and to contain all liquid and concrete waste generated.
2. The pit should be lined with a minimum 10 mil plastic lining which overhangs the pit rim by 5' in each direction.
3. Sandbags shall be placed on top of the plastic lining at 3' intervals along the rim of the excavated pit.
4. Lath and flagging shall be installed on all sides of the excavated pit to clearly mark its location.

"Above Grade" (Option if Below Grade is not practical)
1. A wood frame shall be constructed using two 2 x 12 boards staked on edge with a minimum width of 10' and length sufficient to contain all liquid and concrete waste generated.
2. The wood frame shall be securely fastened around the entire perimeter using steel rebar or 2 in. x 2 in. hardwood stakes.
3. The wood farm shall be lined with 10 mil plastic sheeting which shall be attached to the outside face of the wood frame.

"Above Grade" with Straw Bales
1. Straw bales shall be arranged such that they create a basin with a minimum width of 10' and length sufficient to contain all liquid and concrete waste generated.
2. The straw bales shall be securely staked using steel rebar or 2 in. x 2 in. hardwood stakes. (two per bale)
3. The basin shall be lined with 10 mil plastic sheeting which is attached to the straw bales using 4" steel wire staples. (two per bale)

MAINTENANCE

* Temporary concrete washout facilities should be maintained to provide adequate holding capacity with a minimum freeboard of 4 in. for above grade facilities and 12 in. for below grade facilities. Maintaining temporary concrete washout facilities should include removing and disposing of hardened concrete and returning the facilities to a functional condition. Hardened concrete materials should be removed and disposed of.
* Washout facilities must be cleaned, or new facilities must be constructed ready for use once the washout is 75% full.
* At the conclusion of concrete construction activities the temporary concrete washout area shall be removed and returned to its original condition.

PRACTICE 3.11 TEMPORARY SEEDING

REQUIREMENTS **Site and seedbed preparation:** Graded and fertilizer applied.
Plant Species: Selected on the basis of quick germination, growth, and time of year to be seeded (see Exhibit 3.11–B).
Mulch: Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth.
Seeding Frequency: As often as possible following construction activity. Daily seeding of rough graded areas when the soil is loose and moist is usually most effective.

APPLICATION (Exhibit 3.11–B)

SITE PREPARATION:
1. Install practices needed to control erosion, sedimentation, and water runoff, such as temporary and permanent diversions, sediment traps or basins, silt fences, and straw bale dams (practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75).
2. Grade the site as specified in the construction plan.

SEEDBED PREPARATION:
1. Test soil to determine its nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information.
2. Fertilize as recommended by the soil test. If testing is not done, consider applying 400–600 lbs./acre of 12–12 analysis, or equivalent, fertilizer.
3. Work the fertilizer into the soil 2–4 in. deep with a disk or rake operated across the slope.

SEEDING:
1. Select a seeding mixture and rate from Exhibit 3.11–B, and plant at depth and on dates shown.
including available soil testing services.)
2. Apply seed uniformly with a drill or cultipacker–seeder or by broadcasting, and cover to the depth shown in Exhibit 3.11–B.
3. If drilling or broadcasting, firm the seedbed with a roller or cultipacker
4. Mulch seeded areas to increase seeding success. Anchor all mulch by crimping or tackifying. Use of netting or erosion control blankets is possible, but may not be cost–effective for temporary seeding.

Exhibit 3.11–B. Temporary Seeding Recommendations

Seed Species*	Rate/acre	Planting Depth	Optimum dates**
Wheat or rye	150 lbs.	1 to 1 1/2 in.	9/15 to 10/30
Spring oats	100 lbs.	1 in.	3/1 to 4/15
Annual ryegrass	40 lbs.	1/4 in.	3/1 to 5/1
			8/1 to 9/1
			3/1 to 6/1
			5/1 to 7/30

* Perennial species may be used as temporary cover, especially if the area to be seeded will remain idle for more than a year (Practice 3.12).
** Seeding done outside the optimum dates increases the chances of seeding failure.

MAINTENANCE

* Inspect periodically after planting to see that vegetative stands are adequately established; reseed if necessary.
* Check for erosion damage after storm events and repair; reseed and mulch if necessary.
* Topdress fall seeded wheat or rye seedings with 50 lbs./acre of nitrogen in February or March if nitrogen deficiency is apparent. (Exhibit 3.11–B shows only wheat/rye fall seeded.)

PRACTICE 3.13 DORMANT AND FROST SEEDING

PURPOSES
* To provide early germination and soil stabilization in the spring.
* To reduce sediment runoff to downstream areas.
* To improve the visual aesthetics of the construction area.
* To repair previous seedings.

REQUIREMENTS **Site and seedbed preparation:** Graded as needed, and lime and fertilizer applied.
Plant species: Selected on the basis of soil type, adaptability to the region, and planned use of the area (see Exhibits 3.13–B and 3.13–C).

APPLICATION (Exhibit 3.13–B and C)

SITE PREPARATION:
1. Grade the area to be seeded.
2. Install needed erosion/water runoff control practices, such as temporary or permanent diversions, sediment basins, silt fences, or straw bale dams (Practices 3.21, 3.22, 3.72, 3.74 or 3.75).

FOR DORMANT SEEDING
Site and seedbed preparation and mulching can be done months ahead of actual seeding or if the existing ground cover is adequate, seeding can be directly into it.
Seeding dates: Dec. 1–Feb. 28 (north of US 40), Dec. 10–Jan. 15 (south of US 40).
1. Broadcast Fertilizer as recommended by a soil test; or if testing was not done consider applying 400–600 lbs./ acre of 12–12 analysis or equivalent, fertilizer.
2. Apply mulch upon completion of grading (Practice 3.15).
3. Select an appropriate seed species or mixture from Exhibit 3.13–B or Exhibit 3.13–C, and broadcast on top of the mulch and/or into existing ground cover at rate shown.

FOR FROST SEEDING
Seed is broadcast over the prepared seedbed and incorporated into the soil by natural freeze–thaw action.
Seeding dates: Feb. 28–Mar. 28 (north of US 40), Feb. 15–Mar. 15 (south of US 40).
1. Broadcast Fertilizer as recommended by a soil test; or if testing was not done consider applying 400–600 lbs./ acre of 12–12 analysis or equivalent, fertilizer.
2. Apply mulch upon completion of grading (Practice 3.15).
3. Select an appropriate seed species or mixture from Exhibit 3.13–B or Exhibit 3.13–C, and broadcast on top of the mulch and/or into existing ground cover at rate shown. Do not work the seed into the soil.

Exhibit 3.13–B. Temporary Dormant or Frost Seeding Recommendations.

Seed species*	Rate per acre
Wheat or rye	150lbs.
Spring oats	150 lbs.
Annual ryegrass	60 lbs.

* Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than a year (Practice 3.12).

Exhibit 3.13–C. Permanent Dormant or Frost Seeding Recommendations.
This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties, slope aspect and the tolerance of each species to shade and droughtiness.

Seed species*	Rate per acre	Optimum soil pH
OPEN AND DISTRIBUTED AREAS (REMAINING IDLE MORE THAN 1 YR).		
1. Perennial ryegrass	50 to 75 lbs.	5.6 to 7.0
+ white or ladino clover*	1 1/2 to 3 lbs.	
2. Kentucky bluegrass	30 lbs.	5.5 to 7.5
+ switchgrass	5 lbs.	
+ timothy	6 lbs.	
+ perennial ryegrass	15 lbs.	
+ white or ladino clover*	1 1/2 to 3 lbs.	
3. Perennial ryegrass	22 to 45 lbs.	5.6 to 7.0
STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED).		
2. Prarie switch grass	50 to 75 lbs.	5.5 to 7.5
+ white or ladino clover*	1 1/2 to 3 lbs.	
3. Prarie switch grass	50 to 75 lbs.	5.5 to 7.5
+ red clover* (Recommended north of US 40.)	15 to 30 lbs.	
4. Orchardgrass	30 to 45 lbs.	5.6 to 7.0
+ red clover*	15 to 30 lbs.	
+ ladino clover*	1 1/2 to 3 lbs.	
LAWNS AND HIGH MAINTENANCE AREAS		
1. Bluegrass	160 to 210 lbs.	5.5 to 7.5
2. Perennial ryegrass (turf–type) + bluegrass	70 to 90 lbs. 105 to 135 lbs.	5.6 to 7.0
CHANNELS AND AREAS OF CONCENTRATED FLOW		
1. Parennial ryegrass	150 to 225 lbs.	5.6 to 7.0
+ white or ladino clover*	1 1/2 to 3 lbs.	
2. Prarie switch grass	50 to 75 lbs.	**5.5 to 7.5**
+ red clover* (Recommended north of US 40.)	15 to 30 lbs.	
3. white or ladino clover*	1 1/2 to 3 lbs.	5.5 to 7.5

* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring–seeded, although the grass may be fall–seeded and the legume frost–seeded; (c) if legumes are fall–seeded, do so in early fall.

NOTE: If using mixtures other than those listed here, increase the seeing rate by 50% over the conventional rate.

MAINTENANCE

* Apply 200–300 lbs./acre of 12–12–12 or equivalent fertilizer between Apr. 15 and May 10 or during periods of vigorous growth.
* Re–seed and mulch any areas that have inadequate cover by mid to late Apr. For best results, re–seed within the recommended dates shown in Practices 3.11 for temporary seeding or 3.12 for permanent seeding.

(MS) PRACTICE 3.12 PERMANENT SEEDING

REQUIREMENTS **Site and seedbed preparation:** Graded, and lime and fertilizer applied.
Plant Species: Selected on the basis of soil type, soil pH, region of the state, time of year, and planned use of the area to be seeded (see Exhibit 3.12–C).
Mulch: Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth. The mulch may need to be anchored to reduce removal by wind or water, or erosion control blankets may be considered.

APPLICATION

Permanently seed all final grade areas (e.g., landscape berms, drainage swales, erosion control structures, etc.) as each is completed and all areas where additional work is not scheduled for a period of more than a year.

SITE PREPARATION:
1. Install practices needed to control erosion, sedimentation, and runoff prior to seeding. These include temporary and permanent diversions, sediment traps and basins, silt fences, and straw bale dams (Practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75).
2. Grade the site and fill in depressions that can collect water.
3. Add topsoil to achieve needed depth for establishment of vegetation (Practice 3.02).

SEEDBED PREPARATION:
1. Test soil to determine pH and nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information, including available soil testing services.)
2. If soil pH is unsuitable for the species to be seeded, apply lime according to test recommendations.
3. Fertilize as recommended by the soil test. If testing was not done, consider applying 400–600 lbs./acre of 12–12–12 analysis, or equivalent, fertilizer.
4. Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2–4 in. deep with a disk or rake operated across the slope (Exhibit 3.12–B).

SEEDING:
Optimum seeding dates are Mar. 1–May 10 and Aug. 10–Sept. 30. Permanent seeding done between May 10 and Aug. 10 may need to be irrigated. As an alternative, use temporary seeding (Practice 3.11) until the preferred date for permanent seeding.
1. Select a seeding mixture and rate from Exhibit 3.12–C, based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker–seeder (Exhibit 3.12–D) or by broadcasting, and cover to a depth of 1/4–1/2 in.
3. If drilling or broadcasting, firm the seedbed with a roller or cultipacker
4. Mulch all seeded areas (Practice 3.15).Consider using erosion blankets on sloping areas (Practice 3.17). (NOTE: If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.)

Exhibit 3.12–C. Permanent Seeding Recommendations
This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness.

Seed species and mixtures	Rate per acre	Optimum soil pH
OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)		
1. Perennial ryegrass	35 to 50 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ switchgrass (Panicum virgatum)	3 lbs.	(CANNOT INCLUDE THESE)
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Perennial ryegrass	15 to 30 lbs.	5.6 to 7.0
STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED)		
1. Prarie switch grass (Panicum virgatum)	35 to 50 lbs.	5.5 to 7.5
+ white or ladino clover*	1 to 2 lbs.	
2. Prarie switch grass (Panicum virgatum)	35 to 50 lbs.	5.5 to 7.5
+ red clover* (Recommended north of US 40)	10 to 20 lbs.	
3. Orchardgrass	20 to 30 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
+ ladino clover*	1 to 2 lbs.	
LAWNS AND HIGH MAINTENANCE AREAS		
1. Bluegrass	105 to 150 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf–type) + bluegrass	45 to 60 lbs. 70 to 90 lbs.	5.6 to 7.0
CHANNELS AND AREAS OF CONCENTRATED FLOW		
1. Perennial ryegrass	100 to 150 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs. 20 lbs.	5.5 to 7.5
2. Prarie switch grass	50 to 75 lbs.	5.5 to 7.5
+ red clover* (Recommended north of US 40.)	15 to 30 lbs.	5.5 to 7.5

* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring–seeded, although the grass may be fall–seeded and the legume frost–seeded; (c) if legumes are fall–seeded, do so in early fall.

NOTE: An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures. If so, it is best to seed during the fall seeding period, especially after Sept. 15, and at the following rates: spring oats–1.4 to 3/4 bu./acre; wheat–no more than 1/2 bu./acre.

MAINTENANCE

* Inspect periodically, especially after storm events, until the stand is successfully established. (Characteristics of a successful stand include: vigorous dark green or bluish–green seedlings; uniform density with nurse plants, legumes, and grasses well inter–mixed; green leaves; and the perennials remaining green throughout the summer, at least at the plant base.)
* Plan to add fertilizer the following growing season according to soil test recommendations.
* Repair damaged, bare or sparse areas by filling any gullies, re–fertilizing, over– or re–seeding, and mulching.
* If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; then repair the affected area either by over–seeding or by re–seeding and mulching after re–preparing the seedbed.
* If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)
* If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

(SP) PRACTICE 3.01 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD

PURPOSE
* To provide a stable entrance/exit condition from the construction site.
* To keep mud and sediment off public roads.

REQUIREMENTS (Exhibit 3.01–B)
Material: 2–3 in. washed stone (INDOT CA No. 2) over a stable foundation.
Thickness: 6 in. minimum
Width: 20 ft. minimum or full width of entrance/exit roadway, whichever is greater.
Length: 100 ft. minimum. The length can be shorter for small sites such as for an individual home.
Washing facility (optional): Level area with 3 in. washed stone minimum or a commercial rock, and waste water diverted to a sediment trap or basin (Practice 3.72).
Geotextile fabric underliner: May be used under wet conditions or for soils within a high seasonal water table to provide greater bearing strength.

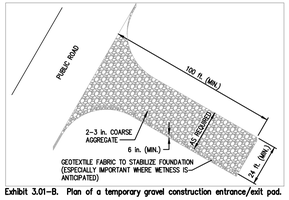


Exhibit 3.01–B. Plan of a temporary gravel construction entrance/exit pad.

INSTALLATION (Exhibit 3.01–C)
1. Avoid locating on steep slopes or at curves in public roads.
2. Remove all vegetation and other objectionable material from the foundation area, and grade and crown for positive drainage.
3. If slope towards the road exceeds 2%, construct a 6–8 in.–high water bar (ridge) with 3:1 side slopes across the foundation area about 15 ft. from the entrance to divert runoff away from the road (Practice 3.24) (see Exhibit 3.01–C).
4. Install pipe under the pad if needed to maintain proper public road drainage.
5. If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
6. Place stone to dimensions and grade shown in the erosion/sediment control plan, leaving the surface smooth and sloped for drainage.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.

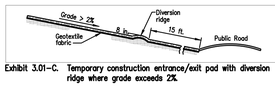


Exhibit 3.01–C. Temporary construction entrance/exit pad with diversion ridge where grade exceeds 2%

MAINTENANCE
* Inspect entrance pad and sediment disposal area weekly and after storm events or heavy use.
* Reshape pad as needed for drainage and runoff control.
* Top dress with clean stone as needed.
* Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used if the water is conveyed into a sediment trap or basin.
* Repair any broken road pavement immediately.

(RR) PRACTICE 3.16 RIPRAP

PURPOSE
* To protect slopes, streambanks, channels, or similar areas subject to erosion by water.

REQUIREMENTS
Rock: Hard, angular, and weather–resistant, having a specific gravity of at least 2.5.
Gradation: Well–graded stone, 50% (by weight) larger than the specified d_{50}; however, the largest pieces should not exceed two times the specified d_{50}, and no more that 15% of the pieces (by weight) should be less than 3 in.
Filter: Use geotextile fabric for stabilization and filtration or sand/gravel layer placed under all permanent riprap installations.
Slope: 2:1 or flatter, unless approved in the erosion and sediment control plan.
Minimum thickness: Two times the specified d_{50} stone diameter.

INSTALLATION (Exhibit 3.16–B)

SUBGRADE PREPARATION:
1. Remove brush, trees, stumps, and other debris.
2. Excavate only deep enough for both filter and riprap; over–excavation increases the amount of spoil considerably (Practice 3.32).
3. Compact any fill material to the density of the surrounding undisturbed soil.

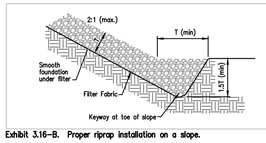


Exhibit 3.16–B. Proper riprap installation on a slope.

4. Cut a keyway in stable material at the base of the slope to reinforce the toe; keyway depth should be 1 1/2 times the design thickness of the rip–rap and should extend a horizontal distance equal to the design thickness.
5. Smooth the graded foundation.

FILTER PLACEMENT:
1. If using geotextile fabric, place it on the smoothed foundation, overlap The edges at least 12 in., and secure with anchor pins spaced every 3 ft. along the overlap. (For large riprap, consider a 4–in. layer of sand to protect the fabric.)
2. If using a sand/gravel filter, spread the well–graded aggregate in a uniform layer to the required thickness (6 in. minimum); if two or more layers are specified, place the layer of smaller gradation first, and avoid mixing the layers.

RIPRAP PLACEMENT:
1. Immediately after installing the filter, add the riprap to full thickness in one operation. (Do not dump through chutes or use any method that causes segregation of rock sizes or that will dislodge or damage the underlying filter material.)
2. If fabric is damaged, remove the riprap and repair by adding another layer of fabric, overlapping the damaged area by 12 in.
3. Place smaller rock in voids to form a dense, uniform, well–graded mass. (Selective loading at the quarry and some hand placement may be needed to ensure an even distribution of rock material.)
4. Blend the rock surface smoothly with the surrounding area to eliminate protrusions or overfalls.

MAINTENANCE
* Inspect periodically for displaced rock material, slumping, and erosion at edges, especially downstream or downslope. (Properly designed and installed riprap usually requires very little maintenance if promptly repaired.)

(SF) PRACTICE 3.74 SILT FENCE (SEDIMENT FENCE)

PURPOSE To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow.
(NOTE: Silt fence captures sediment by ponding water to allow deposition, not by filtration. Although the practice usually works best in conjunction with temporary basins, traps, or diversions, it can be sufficiently effective to be used alone. A silt fence is not recommended for use as a diversion; nor is it to be used across a stream, channel or anywhere that concentrated flow is anticipated.)

REQUIREMENTS (Exhibit 3.74–B and C)
Drainage Area: Limited to 1/4 acre per 100 ft. of fence; further restricted by slope steepness (see Exhibit 3.74–B).
Location: Fence nearly level, approximately following the land contour, and at least 10 ft. from toe of slope to provide a broad, shallow sediment pool.
Trench: 8 in. minimum depth, flat–bottom or v–shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
Support posts: 2 x 2–in. hardwood posts (if used) or steel fence posts set at least 1 ft. deep.* (Steel posts should projections for fastening fabric.)
Spacing of posts: 8 ft. maximum if fence supported by wire, 6 ft. for extra–strength fabric without wire backing.
Fence height: High enough so depth of impounded water does not exceed 1 1/2 ft. at any point along fence line.
Support wire (optional): 14 gauge, 6 in. wire fence (needed if using standard–strength fabric).
Fence fabric: Woven or non–woven geo–textile fabric with specified filtering efficiency and tensile strength (see Exhibit 3.74–C) and containing UV inhibitors and stabilizers to ensure 6–mo. minimum life at temperatures 0°–120°F.

Exhibit 3.74–B. Maximum Land Slope and Distance for Which a Silt Fence Is Applicable.

Land slope	Max. distance above fence
Less than 2%	100 ft.
2 to 5%	75 ft.
5 to 10%	50 ft.
10 to 20%	25 ft.
More than 20%	15 ft.

* Some commercial silt fences come ready to install, with support posts attached and requiring now wire support.

Exhibit 3.74–C. Specifications Minimums for Silt Fence Fabric.

Physical Property	Woven Fabric	Non–woven fabric
Filtering efficiency	85%	85%
Tensile strength at 20% elongation:		
Standard strength	30lbs./linear in.	50lbs./linear in.
Extra strength	50lbs./linear in.	70lbs./linear in.
Slurry flow rate	0.3 gal./min./sq.ft.	4.5 gal./min./sq.ft.
Water flow rate	15 gal. /min./sq.ft.	220 gal./min./sq.ft.
UV resistance	70%	85%

Outlet (optional): To allow for safe storm flow bypass without overtopping fence. Placed along fence line to limit water depth to 1 1/2 ft. maximum; crest–––1 ft. high maximum; weir width––4 ft. maximum; splash pad––5 ft. wide, 3 ft. long, 1 ft. thick minimum.

INSTALLATION

SITE PREPARATION:
1. Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area.
2. Provide access to the area if sediment cleanout will be needed.

OUTLET CONSTRUCTION (OPTIONAL)
1. Determine the appropriate location for a reinforced, stabilized bypass flow outlet.
2. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line.
3. Locate the outlet weir support posts no more than 4 ft. apart, and install a horizontal brace between them. (Weir height should be no more than 1 ft. and water depth no more than 1 1/2 ft. anywhere else along the fence.)
4. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep, 5 ft. wide and 5 ft. long on level grade.
5. Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall.
6. Stabilize the area around the pad.

OUTLET CONSTRUCTION (OPTIONAL)
1. Along the entire intended fence line, dig an 8 in. deep flat–bottomed or V–shaped trench.
2. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre–attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench as described in step 6.)
3. Fasten support wire fence to the upslope side of the posts, extending it 8 in. into the trench.
4. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line.
5. If a joint is necessary, nail the overlap to the nearest post with a lath.
6. Place the bottom 1 ft. of fabric in the 8 in. deep trench, extending the remaining 4 in. toward the upslope side.
7. Backfill the trench with compacted earth or gravel.
NOTE: If using a pre–packed commercial silt fence rather than constructing one, follow the manufacturer's installation instructions.

Exhibit 3.74–E. Detailed example of silt fence installation.

MAINTENANCE
* Inspect the silt fence periodically and after each storm event.
* If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
* Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
* Take care to avoid undermining the fence during clean out.
* After the contributing area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade, and stabilize.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

BBA ARCHITECTURE CIVIL ENGINEERING PLANNING
BYNUM FANYO & ASSOCIATES, INC.
bloomington, indiana (812) 339–2990 (Fax)
528 north walnut street (812) 332–8030

JEFFREY S. FANYO No. 60018283 STATE OF INDIANA PROFESSIONAL ENGINEER
05-10-24
certified by:

PROPOSED WASHINGTON TOWNSHIP FIRE STATION
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

title: SWPPP DETAILS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C601
project no.: 402131

MATERIAL HANDLING AND SPILL PREVENTION PLAN:

ALL TRASH DUMPSTERS ON SITE MUST BE COVERED WHEN NOT IN USE AND AT THE END OF EACH DAY. WASTE THAT IS NOT DISPOSED OF IN TRASH RECEPTACLES MUST BE REMOVED FROM THE SITE AT THE END OF EACH DAY AND SHOULD BE DISPOSED OF PROPERLY. ALL MATERIALS ON-SITE WILL BE HANDLED PER THE REQUIREMENTS OF THE MSDS SHEETS. THE CONTRACTOR SHALL HAVE AN EMERGENCY SPILL CLEAN-UP KIT ON SITE FOR RECOVERY OF PETROLEUM PRODUCT SPILLS AT ALL TIMES. DESIGNATED FUELING AREAS ARE SHOWN ON SHEETS C301. ANY FUEL STORED ON SITE SHOULD BE PROTECTED, LABELED, AND BE DOUBLE-WALLED OR HAVE SECONDARY CONTAINMENT. SEE ADDITIONAL FUEL HANDLING DETAILS ON THIS SHEET. IF A REPORTABLE AMOUNT OF SEDIMENT LADEN WATER OR OTHER POLLUTANT IS ALLOWED TO LEAVE THE SITE, THE CONTRACTOR IS OBLIGATED TO NOTIFY IDEM'S SPILL LINE AT (317) 233-7745 WITHIN 24 HOURS. NOTIFY THE MS4 COORDINATOR AT (812) 349-2499 IN THE EVENT OF ANY SPILLS OR OFF-SITE DISCHARGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINES AND ANY LIABILITY ASSOCIATED WITH SUCH AN EVENT. SEDIMENT LADEN WATER, WHICH OTHERWISE WOULD FLOW FROM THE PROJECT SITE, SHALL BE TREATED BY EROSION AND SEDIMENT CONTROL MEASURES APPROPRIATE TO MINIMIZE SEDIMENTATION. ALL WATER (INCLUDING STORMWATER, GROUNDWATER, OR ANY OTHER WATER) THAT LEAVES THE CONSTRUCTION SITE MUST HAVE A TOTAL SUSPENDED SOLIDS LEVEL OF LESS THAN 50 PARTS PER MILLION OR HAVE NO VISIBLE SEDIMENT. THIS CAN BE DETERMINED ON SITE BY TAKING A SETTLEABLE SOLIDS SAMPLE WITH AN IMHOFF CONE WITH A RESULT OF LESS THAN 0.5 ML PER LITER. IT SHOULD BE EXPECTED THAT ALL MATERIALS NECESSARY TO CONSTRUCT THE PROPOSED SITE IMPROVEMENTS WILL BE ENCOUNTERED ON SITE AT ONE TIME OR ANOTHER. ALL MATERIALS THAT APPEAR ON SITE WILL BE ACCOMPANIED WITH MSDS SHEETS IN ACCORDANCE WITH OSHA GUIDELINES AND THE CODE OF FEDERAL REGULATION (CFR). MSDS SHEETS PROVIDE AMONG OTHER THINGS, THE PROCEDURES FOR CLEAN-UP OF SPILLS AND LEAKS. REFER TO ITEM B1 ABOVE FOR ADDITIONAL INFORMATION.

POST CONSTRUCTION DETAILS

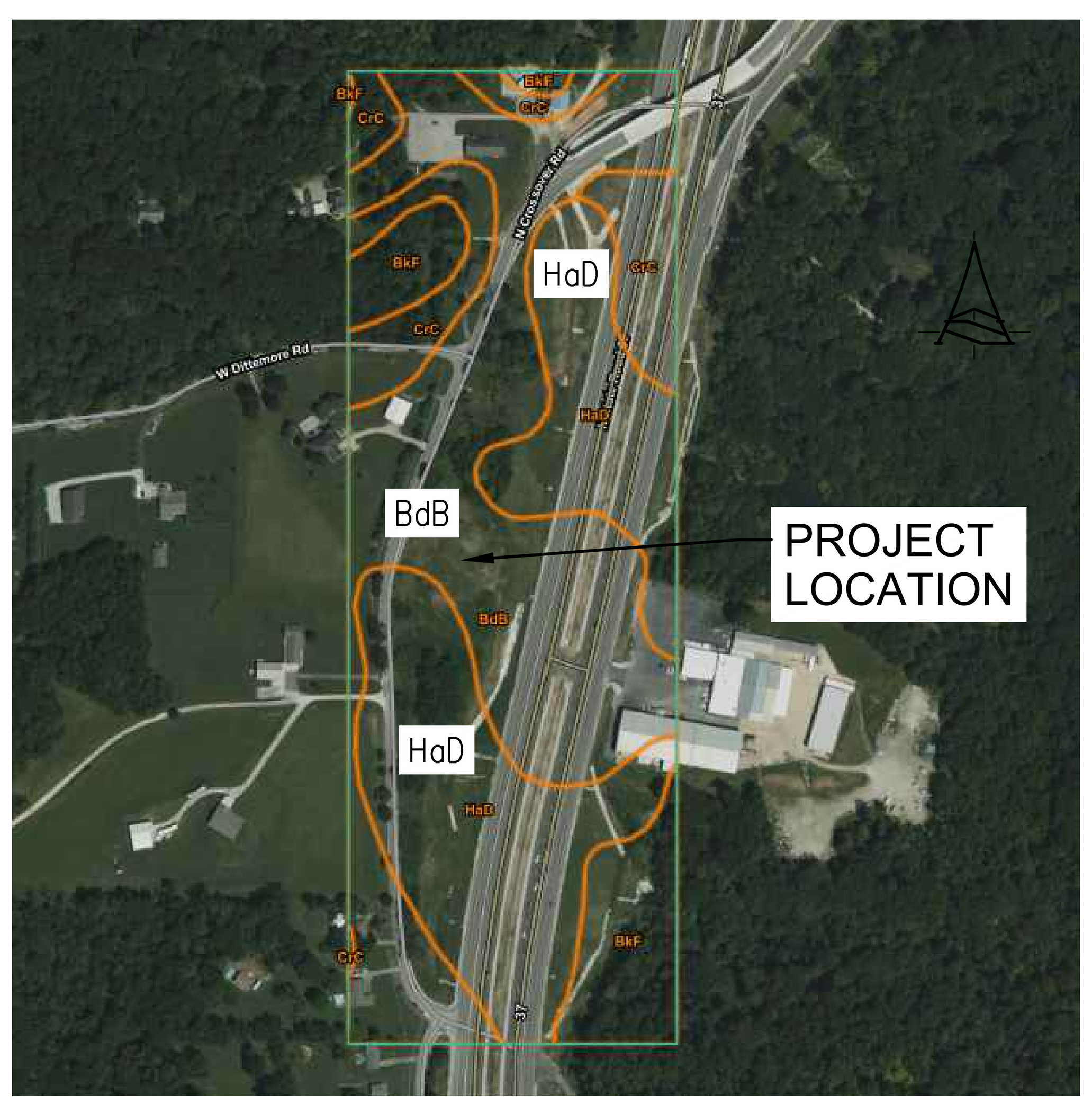
DESCRIPTION OF POLLUTANTS, THEIR SOURCES ASSOCIATED WITH WITH THE PROPOSED LAND USE: THE MAIN POST CONSTRUCTION POLLUTANTS ARE OIL, GAS, ANTI FREEZE, AND OTHER TYPICAL POLLUTANTS FROM CARS IN PARKING AREAS. .

SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION: THE POST CONSTRUCTION STORMWATER QUALITY MEASURES WILL BE INSTALLED AS PART OF AND DURING CONSTRUCTION OF THE STORMWATER COLLECTION AND CONVEYANCE SYSTEM AND THE FINAL VEGETATION OF THE SITE. SEE THE SEQUENCE ON SHEET C301.

DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES: THE MAJORITY OF STORMWATER WILL BE CONVEYED THROUGH THE STORMWATER POND INTENDED TO REDUCE SEDIMENT AND POLLUTANT TRANSPORT.

LOCATION, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE: SEE THE GRADING & DRAINAGE PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHEET C201 & C301 AS WELL AS THE DETAILS SHOWN ON THIS SHEET AND SHEET C601.

AN OPERATION AND MAINTENANCE MANUAL FOR PROPOSED POST-CONSTRUCTION WATER QUALITY MEASURES: SEE THE MAINTENANCE NOTES AND GUIDELINES FOR EACH POST CONSTRUCTION MEASURE WITHIN THE DETAILS C601-C602. PROVIDE A COPY OF THE SIGNED MOU TO THE MS4 ASSISTANT.



SOILS MAP

SCALE: NTS

HaD—Hagerstown silt loam, 12 to 20 percent slopes
Map Unit Setting

National map unit symbol: 2z8yv
Elevation: 370 to 1,060 feet
Mean annual precipitation: 44 to 58 inches
Mean annual air temperature: 46 to 68 degrees F
Frost-free period: 165 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Hagerstown and similar soils: 85 percent
Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hagerstown
Properties and qualities

Slope: 12 to 20 percent
Depth to restrictive feature: 40 to 62 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F122XY002KY – Deep Well Drained Limestone Uplands
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: No

Potential Storm Water Pollutants Material Handling and Spill Prevention

Trade Name /Material	Source	Chemical/Physical Description	Storm Water Pollutants	Remedial Action
Fertilizer	Landscaping Activities	Liquid or solid grains	Nitrogen, Phosphorus	(1), (2), (3)
Cleaning Solvents	Normal Business Operation	Colorless, blue or yellow-green liquid	Percholoroethylene, methylene chloride, trichloroethylene, petroleum distillates	Seal drains and inlets with plastic and or tape and collect excess, (1), (2), (3), (4)
Asphalt	Site Construction	Black solid	Oil, petroleum distillates	(1), (2) due to contamination of runoff before curing is complete
Concrete	Bridge Construction	White solid	Limestone, sand	Concrete washout areas shall be utilized and concrete disposed of properly once hardened (2)
Paints	Roadway Striping	Various colored liquids	Metal oxides, stoddard solvent, talc, calcium carbonate, arsenic	Care should be taken to minimize overspray (1), (2), (3), (4)
Curing Compounds	Site Construction	Creamy white liquid	Naphtha	(1), (2), (3), (4)
Wastewater from constr. equipment washing	Construction Equipment	Water	Soil, oil, grease, solids	Equipment washing shall be executed In a location which does not cause wastewater to drain directly to storm sewers or ditches (i e. flat vegetated area) (2)
Hydraulic oil/fluids	Construction Equipment, Cars	Brown oily petroleum hydrocarbon	Mineral oil	Storm structures incorporate a hooded outlet preventing floatables from exiting site, (3), (4)
Gasoline	On site storage tanks, cars, construction equipment, fueling operations	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Storage tanks shall have emergency storage capacity below tank in case of rupture, 3'x3'x6" spill pans shall be used during fueling. (3), (4)
Diesel Fuel	On site storage tanks, cars, construction equipment, fueling operations	Clear, blue-green to yellow liquid	Bpetroleum distillate, oil and grease, naphthalene, xylenes	Storage tanks shall hove emergency storage capacity below lank in case of rupture, 3x3x6" spill pans shall be used during fueling. (3), (4)
Kerosene	Cleaning Operations, Heaters	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates, arsenic, copper	3'x3'x6" spill pans shall be used during fueling operations and cleaning of equip. to catch excess, (1), (2), (3), (4)
Antifreeze Coolant	Construction Equipment, Cars	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	(1), (2), (3), (4)
Soil Erosion	Exposed Soil	Solid particles	Soil sediment	Erosion control measures (this sht.)
Solid Waste Trash	Normal Business Operation	Trash, debris, refuse	Trash, debris, refuse	Trash cans shall be utilized on site during and after construction

This table was provided for general information only to supplement information used in the Rule 5 permitting process. The contractor is responsible for material handling and spill mitigation procedures.

Notes:

1. All excess materials shall be collected and disposed of in accordance with all federal, state and local regulations.

2 Material shall not be applied immediately preceding, during or following rainfall (when applicable).

3. Spillage should be cleaned immediately by a trained individual and disposed of per Note (2).

4. Store in sealed containers appropriate for specific use.

FUEL HANDLING

Preventative measures are the best means of avoiding accidental release of petroleum products.

Fueling:

- Welding, cutting, burning, heavy equipment operations in the immediate area of a fueling operation shall be suspended during refueling.
- Unreeling of fuel transfer hose and nozzle shall be done with the nozzle in the upright position. The nozzle shall be kept clear of the ground when returned to the reel or storage position.
- Wrap absorbent pads around the fuel inlet of the receiving equipment prior to dispensing fuel.
- Transfer of fuel is to be stopped prior to overflowing, leaving room for expansion.

Spills:

In the event of an accidental spill, the following shall occur:

1. Stop the leak.
2. Block off any drains or access to drainage ways.
3. If spill has entered or is in danger of entering a waterway, boom-off area to contain spill.
4. Assess the level of the spill and report spill to the IDEM Spill Lline at (317)233-7745 and the local Connie Griffin of the local MS4 Office at (812)349-2960.
5. Assess the method of cleanup.
6. Proceed with recovery of spilled fuel and clean-up.
7. Arrange appropriate disposal of recovered fuel and debris at a landfill site.
8. Maintain a record of the spill and cleanup.

Typical spill cleanup kit contents:

- Four 3" dia. x 48" oil socks
- Twenty-five 17" x 19" oil pads
- Disposable material containment bags
- Latex gloves
- Granular absorbent
- PVC Bag container

BdB—Bedford silt loam, 2 to 6 percent slopes
Map Unit Setting

National map unit symbol: 2s2cy
Elevation: 420 to 1,210 feet
Mean annual precipitation: 40 to 66 inches
Mean annual air temperature: 41 to 68 degrees F
Frost-free period: 139 to 205 days
Farmland classification: All areas are prime farmland

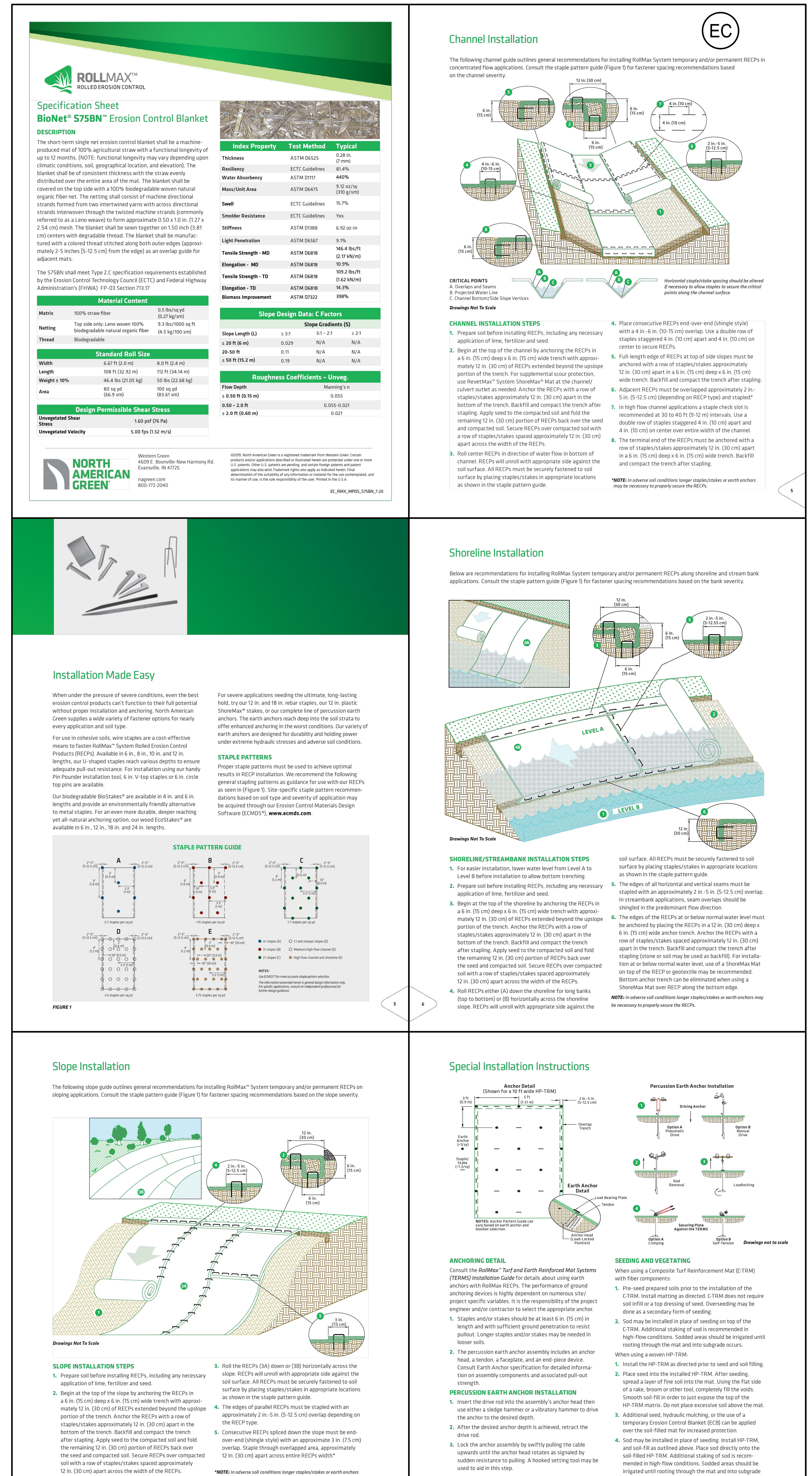
Map Unit Composition
Bedford and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bedford
Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 21 to 35 inches to fragipan
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.20 in/hr)
Depth to water table: About 18 to 33 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C/D
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: No



* INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
* CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET
* IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

NOTE TO CONTRACTOR

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revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
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bloomington, indiana
(812) 332-8030
(812) 339-2990 (Fax)

JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
05-10-24

certified by:

PROPOSED
WASHINGTON TOWNSHIP
FIRE STATION
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

title: SWPPP DETAILS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C602
project no.: 402131

MONROE FIRE PROTECT.
STATION 26 SEPTIC SYS.
PROJECT NO. 402353

PROPOSED:

MONROE FIRE PROTECTION DISTRICT FIRE STATION 26 SEPTIC SYSTEM

478 E CHAMBERS PIKE, BLOOMINGTON, IN. 47404

UTILITY CONTACT INFORMATION

GAS	WATER	ELECTRIC
VECTREN	WASHINGTON TWP. WATER CORP.	DUKE ENERGY
205 S. MADISON ST.	1100 E. CHAMBERS PIKE	1619 W. DEFFENBAUGH ROAD
BLOOMINGTON, IN 47401	BLOOMINGTON, IN 47408	KOKOMO, INDIANA 46902
DOUG ANDERSON (812)330-4009	PH: (812)332-3230	JIM SHIELDS (317)375-2071
TELEPHONE	**CABLE TELEVISION**	**UNDERGROUND UTILITY LOCATION**
AT&T	COMCAST	INDIANA UNDERGROUND
P.O. BOX 56	2450 SOUTH HENDERSON STREET	PLANT PROTECTION
BLOOMINGTON, IN 47402	BLOOMINGTON, IN 47404	1-(800)382-5544
BRENT McCABE (812)334-4521	SCOTT TEMPLETON (812)355-7822	

SHEET INDEX

VICINITY/LOCATION MAP
SCALE: 1"=1,000'

DIAL '811' BEFORE YOU DIG
PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Bloomington, Indiana 47404 (812) 332-8030

architecture
civil engineering
planning

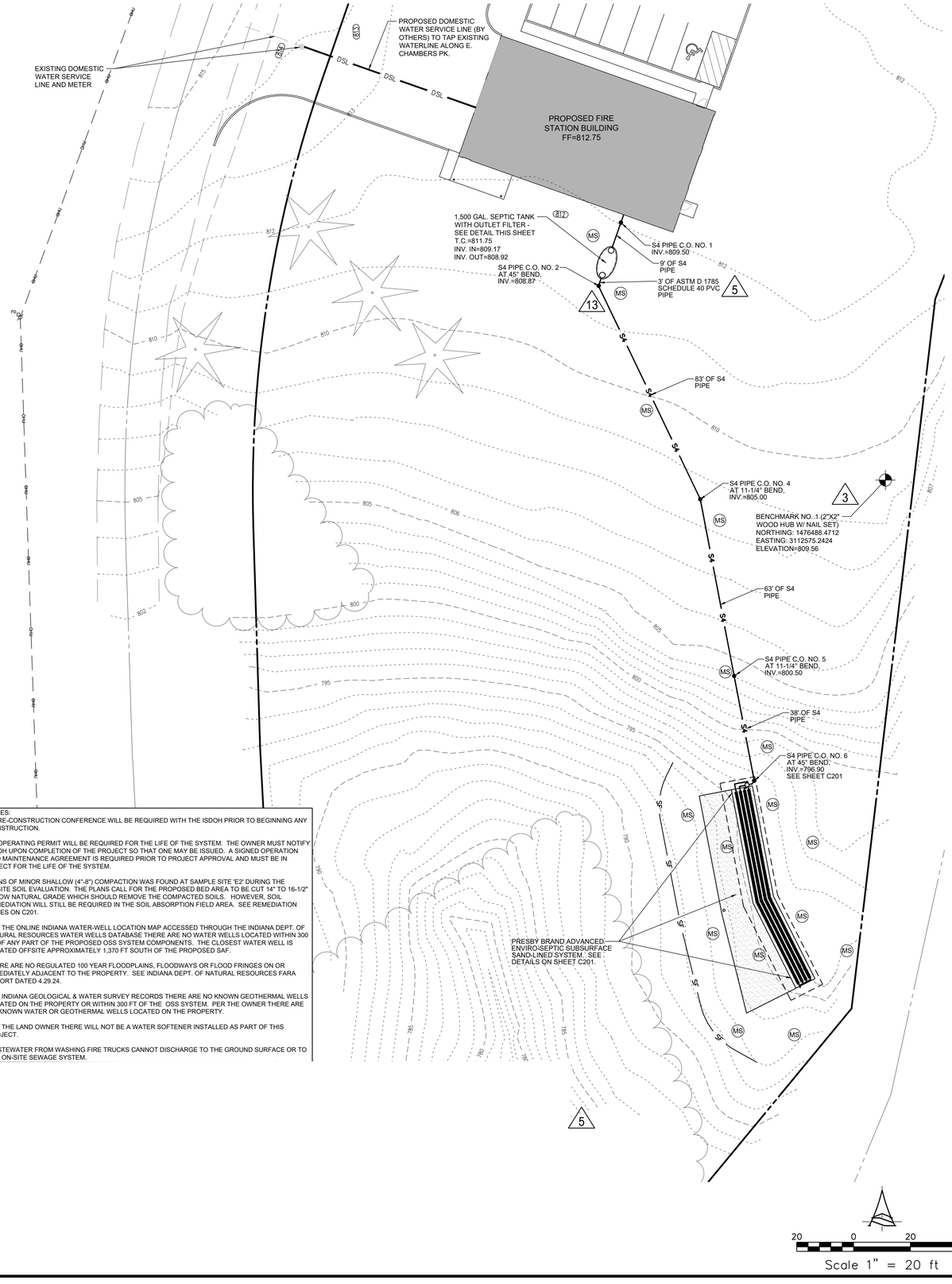
OWNER/DEVELOPER:
WASHINGTON TOWNSHIP OF MONROE COUNTY
7974 N FOX HOLLOW RD.,
BLOOMINGTON, IN. 47408

JEFFREY S. FANYO No. 60018283 STATE OF INDIANA PROFESSIONAL ENGINEER

Certified By:
05.21.24
JEFFREY S. FANYO, P.E.
IND. REG. NO. 60018283

Revisions
STATE COMMENTS - 07-31-24

MONROE FIRE PROTECTION
FIRE STATION 26 SEPTIC SYSTEM
PROJECT NO. 402353



NOTES:
A PRE-CONSTRUCTION CONFERENCE WILL BE REQUIRED WITH THE ISDOH PRIOR TO BEGINNING ANY CONSTRUCTION.

AN OPERATING PERMIT WILL BE REQUIRED FOR THE LIFE OF THE SYSTEM. THE OWNER MUST NOTIFY ISDOH UPON COMPLETION OF THE PROJECT SO THAT ONE MAY BE ISSUED. A SIGNED OPERATION AND MAINTENANCE AGREEMENT IS REQUIRED PRIOR TO PROJECT APPROVAL AND MUST BE IN EFFECT FOR THE LIFE OF THE SYSTEM.

SIGNS OF MINOR SHALLOW (4"-8") COMPACTION WAS FOUND AT SAMPLE SITE 'E2' DURING THE ONSITE SOIL EVALUATION. THE PLANS CALL FOR THE PROPOSED BED AREA TO BE CUT 14" TO 16-1/2" BELOW NATURAL GRADE WHICH SHOULD REMOVE THE COMPACTED SOILS. HOWEVER, SOIL REMEDIATION WILL STILL BE REQUIRED IN THE SOIL ABSORPTION FIELD AREA. SEE REMEDIATION NOTES ON C201.

PER THE ONLINE INDIANA WATER-WELL LOCATION MAP ACCESSED THROUGH THE INDIANA DEPT. OF NATURAL RESOURCES WATER WELLS DATABASE THERE ARE NO WATER WELLS LOCATED WITHIN 300 FT OF ANY PART OF THE PROPOSED OSS SYSTEM COMPONENTS. THE CLOSEST WATER WELL IS LOCATED OFFSITE APPROXIMATELY 1,370 FT SOUTH OF THE PROPOSED SAF.

4 THERE ARE NO REGULATED 100 YEAR FLOODPLAINS, FLOODWAYS OR FLOOD FRINGES ON OR IMMEDIATELY ADJACENT TO THE PROPERTY. SEE INDIANA DEPT. OF NATURAL RESOURCES FARA REPORT DATED 4.29.24.

PER INDIANA GEOLOGICAL & WATER SURVEY RECORDS THERE ARE NO KNOWN GEOTHERMAL WELLS LOCATED ON THE PROPERTY OR WITHIN 300 FT OF THE OSS SYSTEM. PER THE OWNER THERE ARE NO KNOWN WATER OR GEOTHERMAL WELLS LOCATED ON THE PROPERTY.

PER THE LAND OWNER THERE WILL NOT BE A WATER SOFTENER INSTALLED AS PART OF THIS PROJECT.

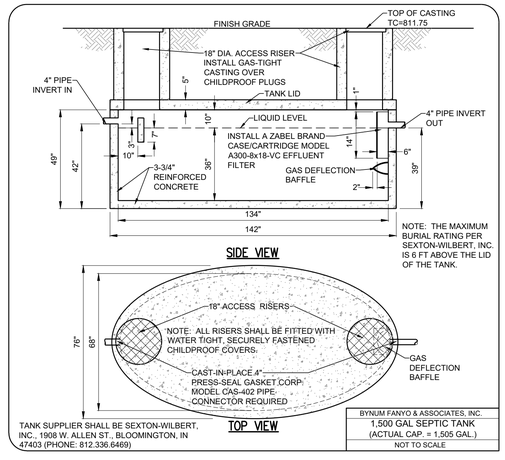
WASTEWATER FROM WASHING FIRE TRUCKS CANNOT DISCHARGE TO THE GROUND SURFACE OR TO THE ON-SITE SEWAGE SYSTEM.

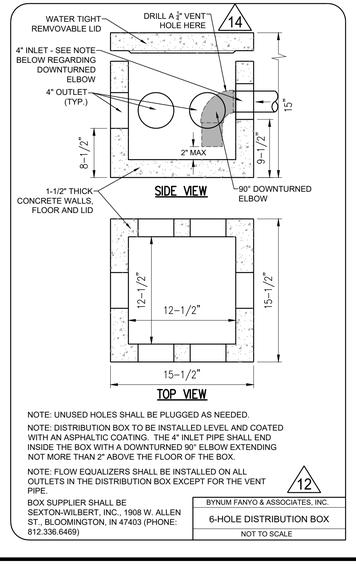
13 17 15 5

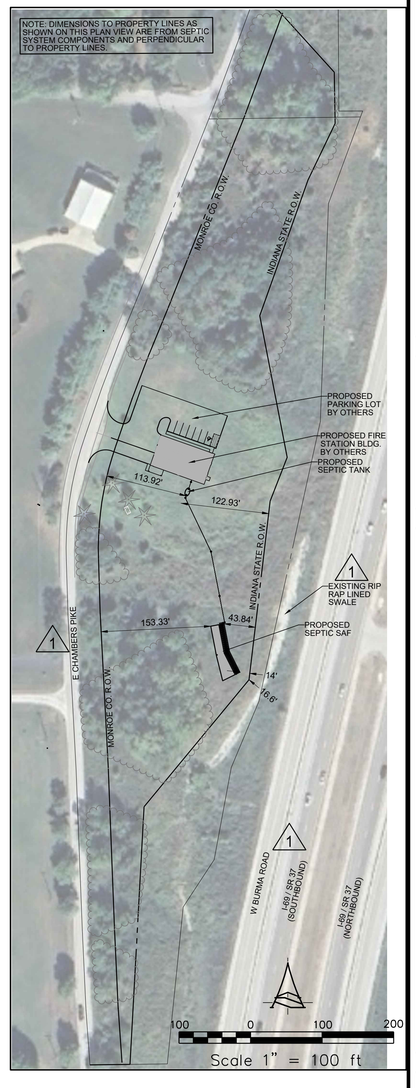
6 7 8 9 10 11 13

GENERAL LEGEND

610	EXISTING GRADE CONTOUR
x x	EXISTING FENCE
B	SOIL SAMPLE LOCATION AND LETTER DESIGNATION (SAMPLE DATE: 4/18/24)
610	PROPOSED GRADE CONTOUR
XXX.XX	PROPOSED SPOT GRADE ELEVATION
FL>	PROPOSED FLOWLINE
ELEC	ELECTRIC SUPPLY ROUTE FROM BUILDING TO REMOTE ALARM PANEL
S4	PROPOSED 4" SDR 35 PVC (ASTM-D 3034-08) GRAVITY SEWER PIPE
SF	PROPOSED SILT FENCE
W	PROPOSED PRIVATE PRESSURE WATERLINE BY OTHERS
C.O.	PROPOSED CLEAN-OUT
INV.	PROPOSED PIPE INVERT
MS	MULCH SEEDING







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revisions:
REVISION NOS. 1A-16 DATED 7.31.24. SEE THIS SHEET FOR LISTING.

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JEFFREY S. FANYO
No. 60018283
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05.21.24
certified by:

PROPOSED
MONROE FIRE PROTECTION DISTRICT
FIRE STATION 26 SEPTIC SYSTEM
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404
IDOH PROJ. NO: 5323337

title: SITE PLAN & DETAILS

designed by: JBT
drawn by: JBT
checked by: JSF
sheet no: C101
project no.: 402353

GENERAL LEGEND

610	EXISTING GRADE CONTOUR
x x	EXISTING FENCE
B	SOIL SAMPLE LOCATION AND LETTER DESIGNATION (SAMPLE DATE: 4/18/24)
610	PROPOSED GRADE CONTOUR
XXX.XX	PROPOSED SPOT GRADE ELEVATION
FL>	PROPOSED FLOWLINE
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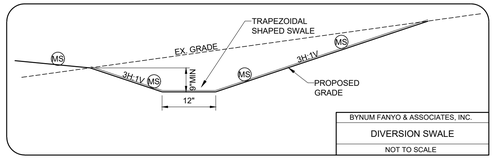
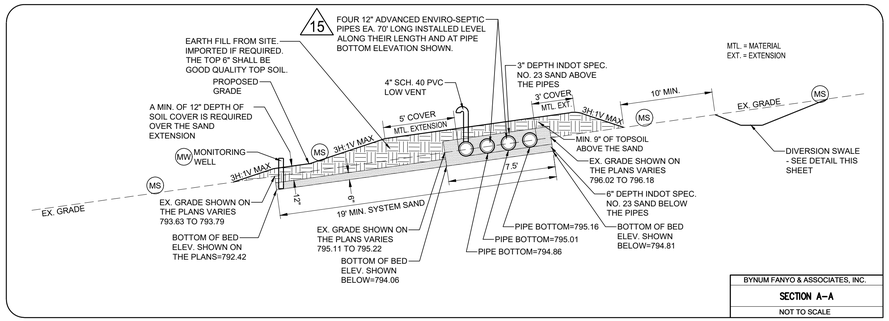
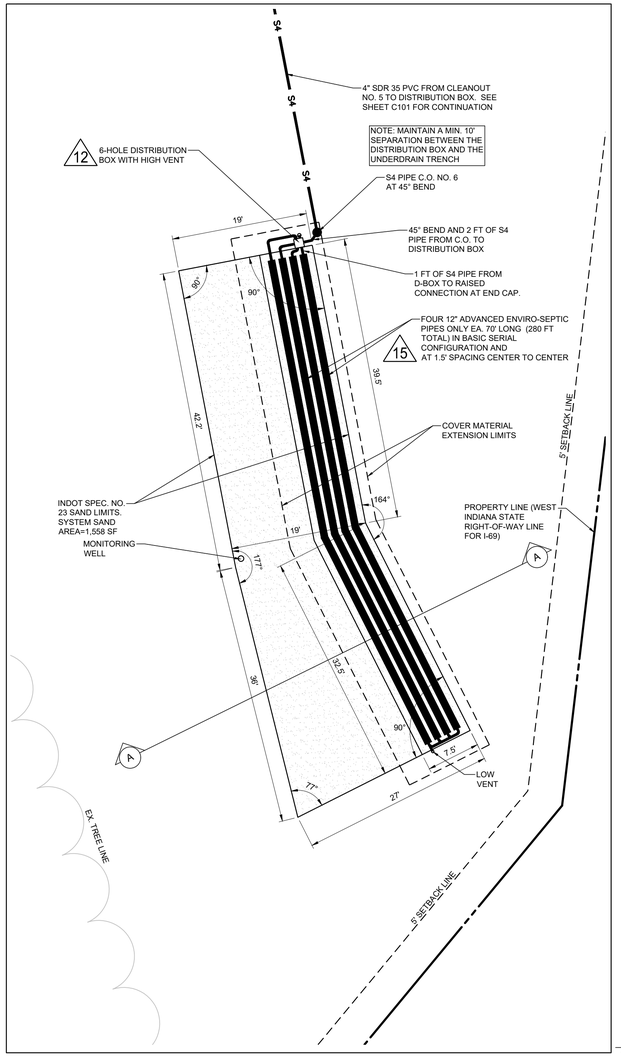
C.O.	PROPOSED CLEAN-OUT
INV.	PROPOSED PIPE INVERT
MS	MULCH SEEDING



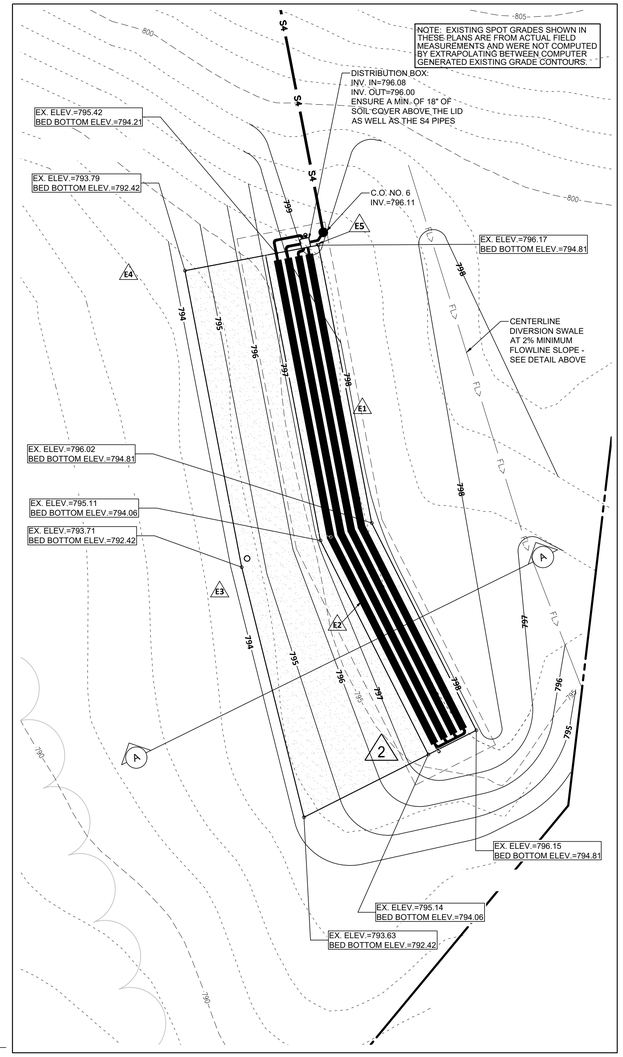
BYNUM FANYO & ASSOCIATES, INC.
DIVERSION SWALE
NOT TO SCALE



BYNUM FANYO & ASSOCIATES, INC.
SECTION A-A
NOT TO SCALE



SCHEMATIC

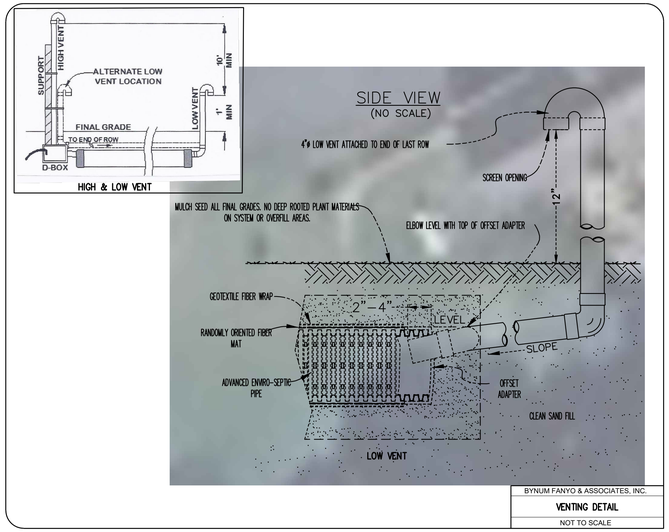


GRADING

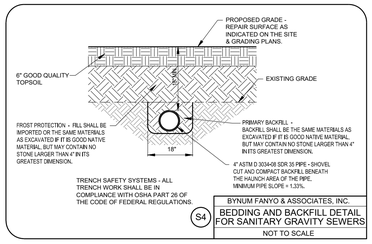
10 0 10 20
Scale 1" = 10 ft

ABBREVIATION TABLE

APPROX.	APPROXIMATE
BLDG.	BUILDING
C.O.	CLEANOUT
DISCH.	DISCHARGE
E	EAST
EP	EDGE OF PAVEMENT
EX.	EXISTING
EXIST.	EXISTING
FF or F.F.	FINISH OR FINISHED FLOOR
FG	FINISH GRADE
FGH	FINISH GRADE HIGH SIDE OF RETAINING WALL
FGL	FINISH GRADE LOW SIDE OF RETAINING WALL
FP	FINISH PAVEMENT
INV.	INVERT
N	NORTH
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
S	SOUTH
S.B.L.	SETBACK LINE
SCHED.	SCHEDULE
SHT.	SHEET
STR.	STRUCTURE
SW	SOUTHWEST
T.B.R.	TO BE REMOVED
TC	TOP OF CASTING AT FLOWLINE
T.R.U.	TO REMAIN UNDISTURBED
TW	TOP OF WALL
TYP.	TYPICAL



BYNUM FANYO & ASSOCIATES, INC.
VENTING DETAIL
NOT TO SCALE



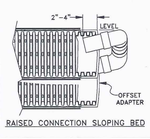
BYNUM FANYO & ASSOCIATES, INC.
BEDDING AND BACKFILL DETAIL FOR SANITARY GRAVITY SEWERS
NOT TO SCALE

Installation Notes for Raised Connections:

1) Insert PVC a minimum of 2 in. and a maximum of 4 in. into the offset adapters. Inserting the PVC more than 4 in. could cut off the flow of air through the system. If the PVC does not extend at least 2 in. into the offset adapter, they may become dislodged during backfilling.

2) Install the Raised Connection so that the top of the 90° elbow is level with the top of the of Enviro-Septic® pipe as shown in the drawings below.

3) Pack sand under and around the raised connection to prevent movement, settling or shifting. Take care during backfilling procedures not to dislodge the Raised Connections.



BYNUM FANYO & ASSOCIATES, INC.
RAISED CONNECTION DETAIL
NOT TO SCALE

COMPACTION REMEDIATION NOTES

I. Identify the Boundaries of Soil Compaction / Evaluate Site

A. All soils descriptions shall be provided by an IRSS soil scientist.

B. Transects shall be used to characterize the extent of compaction. Descriptions along a transect shall come from borings or pits on a 10 - 25 foot spacing. A minimum of 2 pits shall be used. Pits may be hand dug with a minimum width of 16 inches and a depth at least 6 inches deeper than the depth of compaction. All pit and boring descriptions shall be done to a depth 6 inches deeper than the depth of compaction.

II. Remediation by Subsoiling:

A. At the time of subsoiling and/or chisel plowing the soil shall be dry enough that its plastic limit will not be exceeded.

B. When the soil compaction extends no more than 10 inches below existing grade, a chisel plow shall be used to break up the compaction. The chisel plow shall work along the contours of the site at a depth 2 inches deeper than the greatest depth of compaction identified.

C. When the soil compaction extends more than 10 inches below existing grade, a subsoiler and a chisel plow shall be used to break up the compaction.

1. The subsoiler will be used first and shall work at a depth 2 inches deeper than the greatest depth of compaction. Its first pass shall be perpendicular to the slope and its second pass along the contours of the site.
2. The site shall be plowed using a chisel plow parallel to the contour of the site to a depth of seven (7) to fourteen (14) inches. If the site is suitable for a subsurface trench system (based on 410 IAC 6-8.2 and the provisions of this document), and if the subsoiler has sufficiently broken up the compaction, plowing with a chisel plow is not necessary.
3. The area subsoiled and plowed using a chisel plow must include the dispersal area if the same limiting conditions exist in the dispersal area.

III. Evaluate After Remediation

A. On sites with more than 10 inches of compaction, a soil scientist shall describe the condition of the previously described compacted layer after subsoiling and before chisel plowing to ensure that compaction has been amended.

B. A minimum of 3 pits shall be used. Pits may be hand dug with a minimum size of 18 inches horizontally. All pits and descriptions shall be done to a depth 6 inches deeper than the greatest depth of compaction previously identified. All pits and descriptions shall be done after the 2 subsoiling passes and before the chisel plowing. Pits shall be placed so the soil between grooves left by subsoiler shanks can be evaluated.

C. After the soil has been evaluated by the soil scientist, and if the compacted soil has been amended, the site shall be chisel plowed parallel to the contours of the site at a depth of approximately 7-8 inches.

D. The soil scientist shall describe the color, texture and size of clods in inches or mm. The description shall extend from the surface to a depth 6 inches deeper than the greatest depth of previously identified compaction.

E. Clod size must average less than 4 inches or 100 mm for the compacted soil to be considered amended.

GENERAL SEPTIC SYSTEM NOTES

1. PROTECT THE SITE OF THE PROPOSED ABSORPTION FIELD FROM COMPACTING, GRADING OR FILLING PRIOR TO INSTALLATION. THE AREA MUST BE TEMPORARILY ISOLATED BY FENCING OR OTHER MEANS. OTHERWISE, DISTURBANCE OF THE SITE MAY RENDER THE AREA USELESS AND POSSIBLY RESULT IN REVOCATION OF THE CONSTRUCTION PERMIT.

2. CONTRACTOR SHALL CONTACT THE MONROE CO. HEALTH DEPARTMENT AT (812)349-2542 AT LEAST 15 DAYS PRIOR TO ANY SEPTIC CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING AT THE SITE.

3. SEPTIC SYSTEMS SHALL BE CONSTRUCTED BY A MONROE COUNTY HEALTH DEPARTMENT APPROVED AND CERTIFIED PRESBY ADVANCED ENVIRO-SEPTIC INSTALLER. CONTACT PRESBY ENVIRONMENTAL AT (800)473-5298 EXT. 22 FOR THE CERTIFICATION PROCEDURES. SEPTIC CONSTRUCTION WILL BE INSPECTED BY THE MONROE COUNTY HEALTH DEPARTMENT DURING CONSTRUCTION.

4. ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE INDIANA DEPT. OF HEALTH 'S (ISDOH) COMMERCIAL ON-SITE SEWAGE SYSTEMS RULE 410 IAC 6-10.1 AS WELL AS THE ISDOH TECHNICAL DATA SHEET AND ACCOMPANYING LITERATURE DATED FEBRUARY 29, 2024 AND MAY 21, 2024 (IDOH PROJECT NO. 5323337) ARE HEREBY A PART OF THESE PLANS.

5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

6. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATION, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.

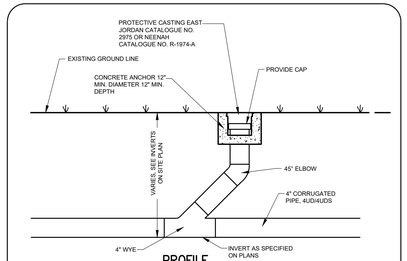
7. BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED IN THE SEPTIC PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.

8. NEW CONTOURS SHOWN ARE TOP OF TOPSOIL IN AREAS TO BE SEEDED.

9. ALL DISTURBED AREAS SHALL BE MULCH SEEDED IMMEDIATELY UPON COMPLETION OF ALL EARTH DISTURBING ACTIVITIES.

10. PRESBY BRAND ADVANCED ENIRO-SEPTIC PIPES SHALL BE INSTALLED LEVEL ALONG THEIR LENGTH.

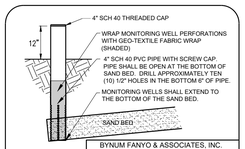
11. TANKS SHALL BE PLACED ON SOLID GRADE TO ALLEVIATE SETTLING. AN 8" LAYER OF COMPACTED SAND IS RECOMMENDED AS BEDDING. BACKFILL AROUND THE TANKS SHALL BE DONE SO AS TO MINIMIZE SETTLING WITHOUT HARMING THE CONCRETE WALLS OF THE TANKS. ALL TANK SURFACES, CONNECTIONS AND ACCESSES SHALL BE ADEQUATELY SEALED TO PREVENT GROUND AND SURFACE WATER INFILTRATION INTO THE SYSTEM. THEY SHALL ALSO HAVE GAS-TIGHT, SAFELY SECURED ACCESS RISERS EXTENDING TO THE GROUND SURFACE.



NOTES:
1. ALL CLEAN-OUTS SHALL BE SUB-SURFACE AND PROTECTED BY A SUITABLE METAL CASTING SUCH AS EAST JORDAN IRON WORKS CATALOGUE NO. 2975 OR NEENAH CATALOGUE NO. R-1974-A. THE CASTING SHALL BE PROVIDED WITH A CIRCULAR CONCRETE COLLAR FLUSH WITH THE TOP OF THE CASTING AND THE GROUND SURFACE. THE COLLAR SHALL BE MINIMUM 9" THICK AND SHALL EXTEND AT LEAST 8" BEYOND THE OUTSIDE OF THE CASTING ON ALL SIDES. TOP OF CLEAN-OUT SHALL BE NO MORE THAN 3" BELOW THE TOP OF CASTING.

2. A CLEAN-OUT SHALL BE PROVIDED ON PERIMETER DRAIN PIPES A MINIMUM OF EVERY 90 FEET AND AT ALL BENDS.

BYNUM FANYO & ASSOCIATES, INC.
STANDARD PERIMETER DRAIN CLEAN-OUT
NOT TO SCALE



BYNUM FANYO & ASSOCIATES, INC.
MONITORING WELL FOR ABSORPTION FIELDS
NOT TO SCALE

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revisions:
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478 E CHAMBERS PIKE
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IDOH PROJ. NO: 5323337

title: SEPTIC SYSTEM DETAILS

designed by: JBT
drawn by: JBT
checked by: JSF
sheet no: C201
project no.: 402353

(MS) PRACTICE 3.12 PERMANENT SEEDING

REQUIREMENTS

Site and seedbed preparation: Graded, and lime and fertilizer applied.
Plant Species: Selected on the basis of soil type, soil pH, region of the state, time of year, and planned use of the area to be seeded (see Exhibit 3.12–C).
Mulch: Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth. The mulch may need to be anchored to reduce removal by wind or water, or erosion control blankets may be considered.

APPLICATION (Exhibit 3.12–B, C, and D)

Permanently seed all final grade areas (e.g., landscape berms, drainage swales, erosion control structures, etc.) as each is completed and all areas where additional work is not scheduled for a period of more than a year.

SITE PREPARATION:

1. Install practices needed to control erosion, sedimentation, and runoff prior to seeding. These include temporary and permanent diversions, sediment traps and basins, silt fences, and straw bale dams (Practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75).
2. Grade the site and fill in depressions that can collect water.
3. Add topsoil to achieve needed depth for establishment of vegetation (Practice 3.02).

SEEDBED PREPARATION:

1. Test soil to determine pH and nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information, including available soil testing services.)
2. If soil pH is unsuitable for the species to be seeded, apply lime according to test recommendations.
3. Fertilize as recommended by the soil test. If testing was not done, consider applying 400–600 lbs./acre of 12–12–12 analysis, or equivalent, fertilizer.
4. Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2–4 in. deep with a disk or rake operated across the slope (Exhibit 3.12–B).

SEEDING:

Optimum seeding dates are Mar. 1–May 10 and Aug. 10–Sept. 30. Permanent seeding done between May 10 and Aug. 10 may need to be irrigated. As an alternative, use temporary seeding (Practice 3.11) until the preferred date for permanent seeding.

1. Select a seeding mixture and rate from Exhibit 3.12–C, based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker–seeder (Exhibit 3.12–D) or by broadcasting, and cover to a depth of 1/4–1/2 in.
3. If drilling or broadcasting, firm the seedbed with a roller or cultipacker
4. Mulch all seeded areas (Practice 3.15).Consider using erosion blankets on sloping areas (Practice 3.17). (NOTE: If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.)

Exhibit 3.12–C. Permanent Seeding Recommendations

This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness.

Seed species and mixtures	Rate per acre	Optimum soil pH
OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)		
1. Perennial ryegrass	35 to 50 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ switchgrass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Perennial ryegrass	15 to 30 lbs.	5.6 to 7.0
+ prarie switch grass	15 to 30 lbs.	
4. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED)		
2. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ white or ladino clover*	1 to 2 lbs.	
3. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ red clover* (Recommended north of US 40)	10 to 20 lbs.	
4. Orchardgrass	20 to 30 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
+ ladino clover*	1 to 2 lbs.	
LAWNS AND HIGH MAINTENANCE AREAS		
1. Bluegrass	105 to 150 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf–type)	45 to 60 lbs.	5.6 to 7.0
+ bluegrass	70 to 90 lbs.	
3. Prarie switch grass(turf–type)	130 to 107 lbs.	5.5 to 7.5
+ bluegrass	20 to 30 lbs.	
CHANNELS AND AREAS OF CONCENTRATED FLOW		
1. Perennial ryegrass	100 to 150 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ switchgrass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Prarie switch grass	100 to 150 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
4. Prarie switch grass	100 to 150 lbs.	5.5 to 7.5
+ Perennial ryegrass	15 to 20 lbs.	
+ Kentucky bluegrass	15 to 20 lbs.	

* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring–seeded, although the grass may be fall–seeded and the legume frost–seeded (Practice 3.13); and (c) if legumes are fall–seeded, do so in early fall.

NOTE: An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures. If so, it is best to seed during the fall seeding period, especially after Sept. 15, and at the following rates: spring oats–1.4 to 3/4 bu./acre; wheat–no more than 1/2 bu./acre.

MAINTENANCE

- Inspect periodically, especially after storm events, until the stand is successfully established. (Characteristics of a successful stand include: vigorous dark green or bluish–green seedlings; uniform density with nurse plants, legumes, and grasses well inter–mixed; green leaves; and the perennials remaining green throughout the summer, at least at the plant base.)
- Plan to add fertilizer the following growing season according to soil test recommendations.
- Repair damaged, bare or sparse areas by filling any gullies, re–fertilizing, over– or re–seeding, and mulching.
- If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; then repair the affected area either by over–seeding or by re–seeding and mulching after re–preparing the seedbed.
- If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)
- If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

(SF) PRACTICE 3.74 SILT FENCE (SEDIMENT FENCE)

PURPOSE

To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow.

(NOTE: Silt fence captures sediment by ponding water to allow deposition, not by filtration. Although the practice usually works best in conjunction with temporary basins, traps, or diversions, it can be sufficiently effective to be used alone. A silt fence is not recommended for use as a diversion; nor is it to be used across a stream, channel or anywhere that concentrated flow is anticipated.)

REQUIREMENTS (Exhibit 3.74–B and C)

Drainage Area: Limited to 1/4 acre per 100 ft. of fence; further restricted by slope steepness (see Exhibit 3.74–B).
Location: Fence nearly level, approximately following the land contour, and at least 10 ft. from toe of slope to provide a broad, shallow sediment pool.
Trench: 8 in. minimum depth, flat–bottom or v–shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
Support posts: 2 x 2–in. hardwood posts (if used) or steel fence posts set at least 1 ft. deep.* (Steel posts should projections for fastening fabric.)
Spacing of posts: 8 ft. maximum if fence supported by wire, 6 ft. for extra–strength fabric without wire backing.
Fence height: High enough so depth of impounded water does not exceed 1 1/2 ft. at any point along fence line.
Support wire (optional): 14 gauge, 6 in. wire fence (needed if using standard–strength fabric).
Fence fabric: Woven or non–woven geo–textile fabric with specified filtering efficiency and tensile strength (see Exhibit 3.74–C) and containing UV inhibitors and stabilizers to ensure 6–mo. minimum life at temperatures 0°–120°F.

Exhibit 3.74–B. Maximum Land Slope and Distance for Which a Silt Fence Is Applicable.

Land slope	Max. distance above fence
Less than 2%	100 ft.
2 to 5%	75 ft.
5 to 10%	50 ft.
10 to 20%	25 ft.
More than 20%	15 ft.

* Some commercial silt fences come ready to install, with support posts attached and requiring now wire support.

Exhibit 3.74–C. Specifications Minimums for Silt Fence Fabric.

Physical Property	Woven Fabric	Non–woven fabric
Filtering efficiency	85%	85%
Tensile strength at 20% elongation:		
Standard strength	30lbs./linear in.	50lbs./linear in.
Extra strength	50lbs./linear in.	70lbs./linear in.
Slurry flow rate	0.3 gal./min./sq.ft.	4.5 gal./min./sq.ft.
Water flow rate	15 gal. /min./sq.ft.	220 gal./min./sq.ft.
UV resistance	70%	85%

Outlet (optional): To allow for safe storm flow bypass without overtopping fence. Placed along fence line to limit water depth to 1 1/2 ft. maximum; crest––1 ft. high maximum; weir width––4 ft. maximum; splash pad––5 ft. wide, 3 ft. long, 1 ft. thick minimum.

INSTALLATION

SITE PREPARATION:

1. Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area.
2. Provide access to the area if sediment cleanout will be needed.

OUTLET CONSTRUCTION (OPTIONAL)

1. Determine the appropriate location for a reinforced, stabilized bypass flow outlet.
2. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line.
3. Locate the outlet weir support posts no more than 4 ft. apart, and install a horizontal brace between them. (Weir height should be no more than 1 ft. and water depth no more than 1 1/2 ft. anywhere else along the fence.)
4. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep, 5 ft. wide and 5 ft. long on level grade
5. Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall.
6. Stabilize the area around the pad.

OUTLET CONSTRUCTION (OPTIONAL)

1. Along the entire intended fence line, dig an 8 in. deep flat–bottomed or V–shaped trench.
2. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre–attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench as described in step 6.)
3. Fasten support wire fence to the upslope side of the posts, extending it 8 in. into the trench.
4. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line.
5. If a joint is necessary, nail the overlap to the nearest post with a lath.
6. Place the bottom 1 ft. of fabric in the 8 in. deep trench, extending the remaining 4 in. toward the upslope side.
7. Backfill the trench with compacted earth or gravel.

NOTE: If using a pre–packed commercial silt fence rather than constructing one, follow the manufacturer's installation instructions.

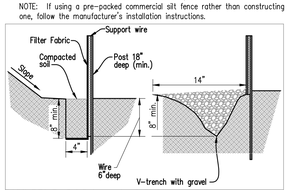
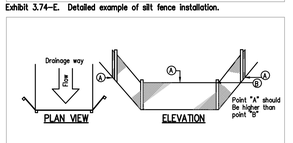


Exhibit 3.74–E. Detailed example of silt fence installation.



MAINTENANCE

- Inspect the silt fence periodically and after each storm event.
- If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
- Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
- Take care to avoid undermining the fence during clean out.
- After the contributing area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade, and stabilize.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

BYNUM FANYO & ASSOCIATES, INC.
ARCHITECTURE
CIVIL ENGINEERING
PLANNING
528 north walnut street
bloomington, indiana
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(812) 339–2990 (Fax)

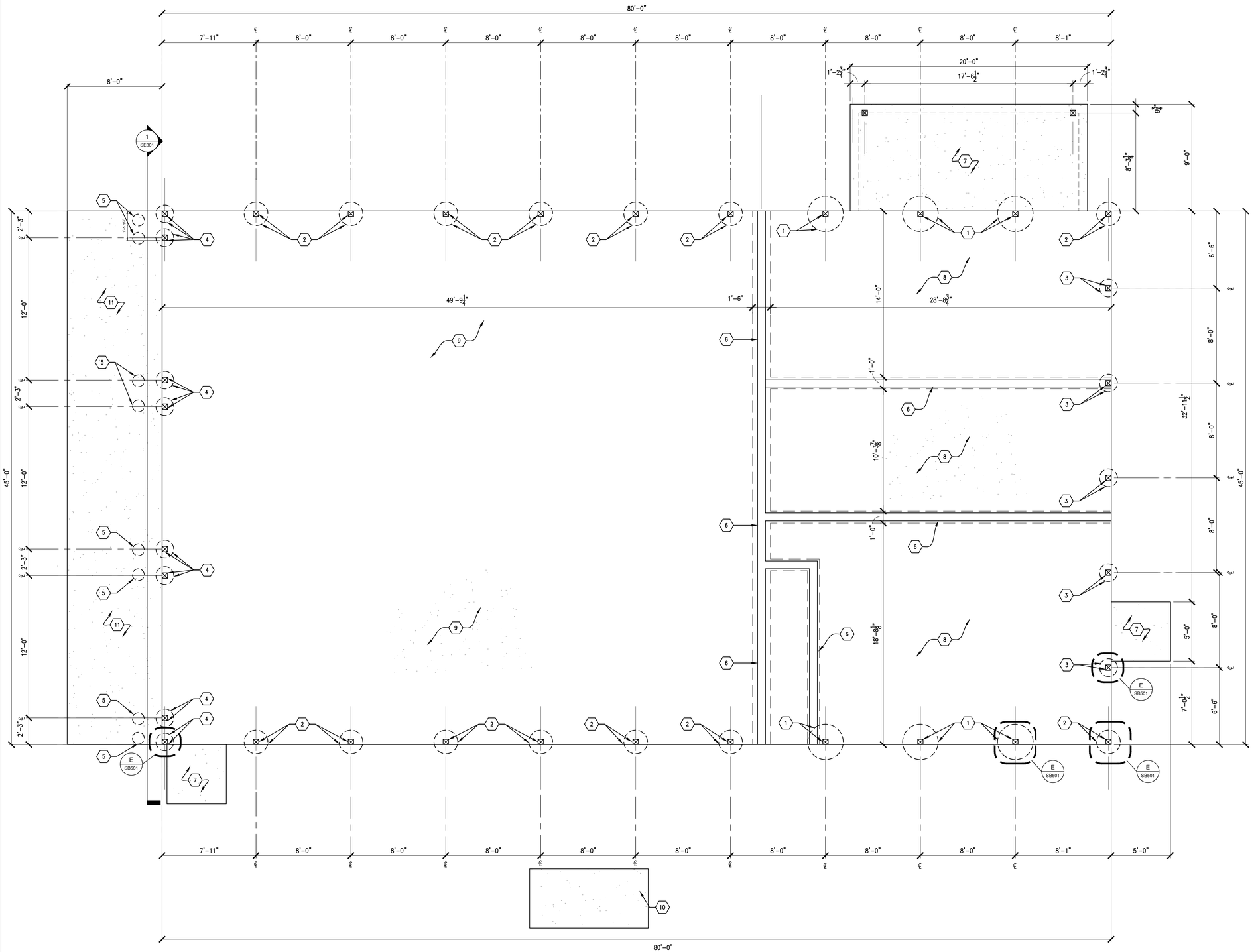
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
05.21.24

certified by:

PROPOSED
MONROE FIRE PROTECTION DISTRICT
FIRE STATION 26 SEPTIC SYSTEM
478 E CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404
IDOH PROJ. NO. 53233337

title: SEPTIC SYSTEM DETAILS CONTINUED

designed by: JBT
drawn by: JBT
checked by: JSF
sheet no: C202
project no.: 402353



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

FOUNDATION PLAN KEYNOTES:

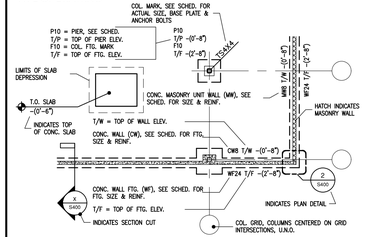
1. 4 PLY 2X8 POST W/ 36"ᵂ X 12" FOOTING. SEE DETAIL ON E/SB501
2. 4 PLY 2X8 POST W/ 24"ᵂ X 10" FOOTING. SEE DETAIL ON E/SB501
3. 3 PLY 2X8 POST W/ 18"ᵂ X 10" FOOTING. SEE DETAIL ON E/SB501
4. 4 PLY 2X8 POST W/18"ᵂ X 8" FOOTING. SEE DETAIL E/SB501
5. 6" STEEL BOLLARD FILLED W/ CONC. POST SHALL BE 36" BELOW GRADE IN 12"ø SONOTUBE PIER. SEE DETAIL ON SB501. (TYP)
6. 8"X18" THICKENED SLAB W/ (2) #4 REBAR
7. 4" CONC. PORCH SLAB W/ 6X6 W1.4/W1.4 W.W.M. OVER 4" (MIN.) COMPACTED GRANULAR FILL, SLOPE @ 1/4"/FOOT AWAY FROM BUILDING.
8. 4" CONC. SLAB W/ 6X6 W1.4/1.4 W.W.M.
9. 8" MINIMUM CONC. SLAB W/ 6X6 W1.4/W1.4 W.W.M. OVER 15 MIL. VAPOR BARRIER AND 4" (MIN.) COMP. GRANULAR FILL.
10. PROVIDE 6" MINIMUM CONC. SLAB W/ 6X6 W1.4/W1.4 W.W.M. OVER 4" (MIN.) COMP. GRANULAR FILL WITH 1/8" PER FOOT SLOPE. VERIFY FINAL SIZE AND LOCATION WITH PROPANE PROVIDER TO ENSURE LOCATION MEETS NFPA 58.
11. 8" CONC. SLAB W/ 6X6 W1.4/W1.4 W.W.M. OVER 4" (MIN.) COMP. GRANULAR FILL, SLOPE @ 1/4"/FOOT AWAY FROM BUILDING.
12. 8"X12" THICKENED SLAB W/ (2) #4 REBAR
13. 6X6 WOOD POST

GENERAL FOUNDATION NOTES:

- ALL FORMWORK TO BE CONSTRUCTED PER ACI 301.4. EXPOSED VERTICAL EDGES TO HAVE 2" CHAMFER.
- CONCRETE SHALL BE PLACED PER ACI 301.8.
- EMBEDDED ITEMS SHALL BE INSTALLED PER ACI 301.6.
- CURING & PROTECTION OF CONCRETE SHALL BE PER ACI 301.12.
- SLAB CONCRETE SHALL BE 4000 P.S.I. W/ 6X6 W1.4XW1.4± PROPORTIONED PER ACI 301.3.
- FOUNDATION WALL & FOOTING CONCRETE SHALL BE 3500 P.S.I., PROPORTIONED PER ACI 301.3.
- SLAB SURFACE TOLERANCE TO BE PER ACI 10.1, FINISH TO BE PER ACI 102.2.
- ALL REINFORCEMENT SHALL BE FURNISHED & INSTALLED PER ACI 301.5.
- PROVIDE 2" THICK X 2'-8" HIGH RIGID PERIMETER INSULATION @ BUILDING PERIMETER (TYPICAL).
- LOCAL SOIL CONDITIONS AND/OR LOCAL PRACTICE MAY NECESSITATE A MORE STRINGENT FOOTING & FOUNDATION WALL DESIGN. CONSULT WITH LOCAL CONTRACTOR OR BUILDING INSPECTOR. SOIL DESIGN BEARING PRESSURE IS ASSUMED 1500 P.S.F.
- FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL & STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE, VERIFY WITH LOCAL CODE.
- INSTALL A NOMINAL 4" DIA. PERFORATED DRAIN TILE WITH FILTER FABRIC BELOW THE TOP OF THE FOOTING & DRAIN TO DAYLIGHT.
- CONTRACTOR TO VERIFY FOUNDATION WALL LOCATIONS & COORDINATE WITH FLOOR PLANS BEFORE EXCAVATION & FRAMING OF BASEMENT/FOUNDATION WALLS. NOTIFY ARCHITECT IF DISCREPANCY IS FOUND.

SYMBOLS LEGEND:

*THIS SYMBOL LEGEND IT NOT PROJECT SPECIFIC AND IS ONLY MEANT TO DESCRIBE TYPICAL NOMENCLATURE USED FOR THIS TYPE OF DRAWING



1 DEMOLITION NOTE
1 REVISION NOTE
1 PLAN NOTE
D.S. DOWNSPOUT LOCATION

TABOR BRUCE
ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

REVISIONS

A NEW FIRE STATION FOR:

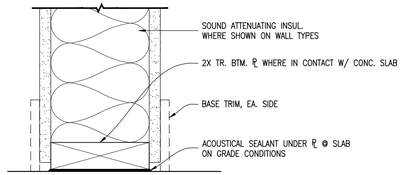
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H Doug Bruce

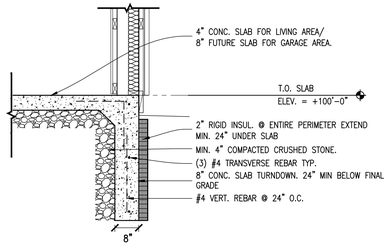
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
FOUNDATION PLAN

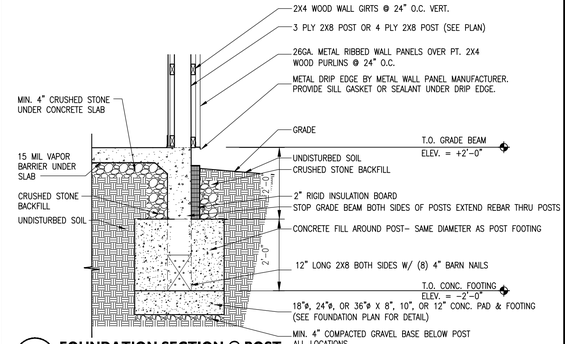
SHEET NO.
SB101



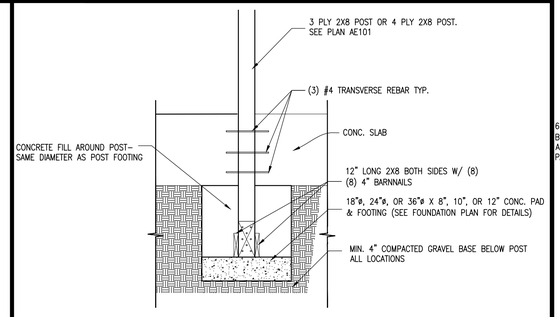
J WOOD STUD PARTITION @ SLAB
3" = 1'-0"



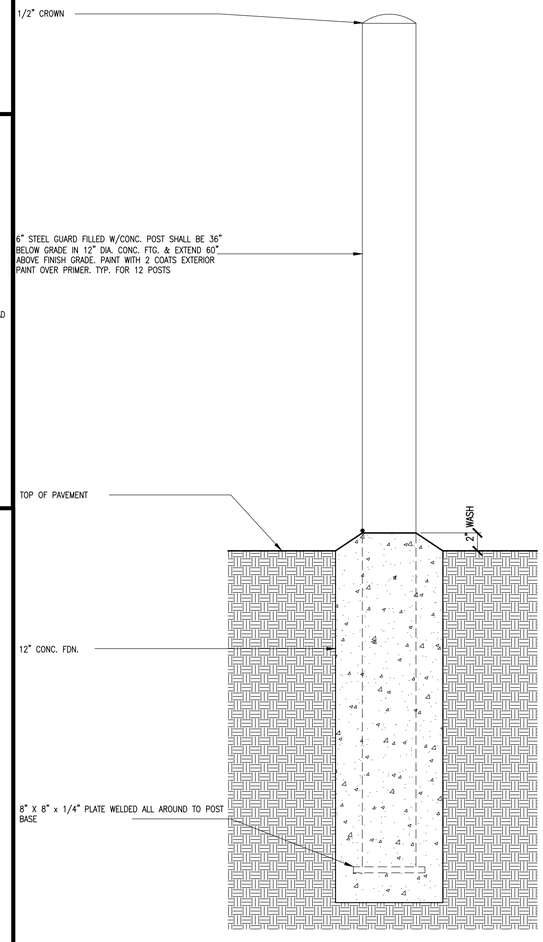
G FOUNDATION DETAIL @ SLAB / GRADE BEAM BETWEEN POSTS
1/2" = 1'-0"



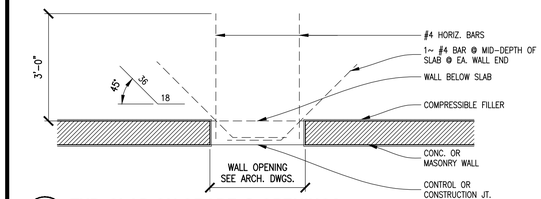
E FOUNDATION SECTION @ POST
1/2" = 1'-0"



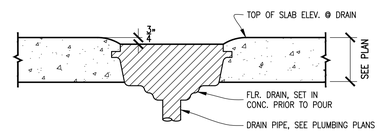
I FOUNDATION SECTION @ POST
1/2" = 1'-0"



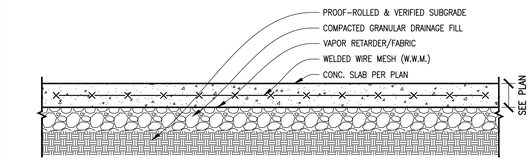
F BOLLARD DETAIL
1 1/2" = 1'-0"



D TYP. SLAB ON GRADE @ OPENINGS
1/2" = 1'-0"

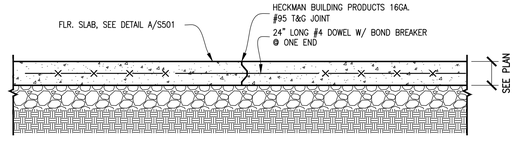


C TYP. FLOOR DRAIN
1 1/2" = 1'-0"

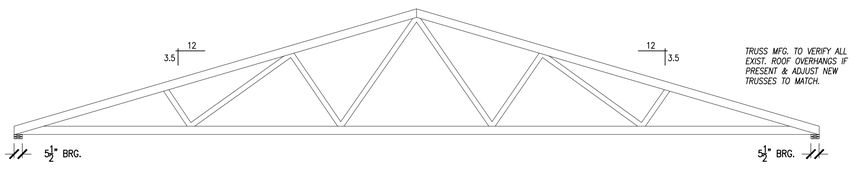


NOTES:
1. LOC. WELDED WIRE MESH (W.W.M.) IN UPPER THIRD OF SLAB. SUPPORT ON BOLSTERS, CHAIRS, OR CONC. BLOCKS.
2. LAP WELDED WIRE FABRIC A MIN. OF ONE FULL MESH SPACING.
3. THE USE OF NYLON OR POLYPROPYLENE FIBER IN LIEU OF WELDED WIRE FABRIC AS A SECONDARY REINF. IS PERMISSIBLE, U.N.O. FIBER MAY NOT BE SUBSTITUTED FOR W.W.F. IN SUPPORTED SLABS.
4. SEE PLANS, NOTES, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SUCH AS FINISH, JOINTING, CURING, ETC.

B CONC. SLAB ON GRADE DETAIL
1" = 1'-0"



A CONC. SLAB TO SLAB CONTROL/CONTRACTION JOINT
1" = 1'-0"



H TYPICAL TRUSS DETAIL
1/4" = 1'-0"

ROOF LOADING NOTES:	
ROOF TRUSS LOADING	29 psf TOTAL LOADS
TOP CHORD LIVE LOAD	= 20 psf.
TOP CHORD DEAD LOAD	= 4 psf.
BOTTOM CHORD DEAD LOAD	= 5 psf.
PROVIDE LATERAL BRACING AS REQ'D. BY TRUSS MFG.	

TABOR BRUCE
ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

REVISIONS

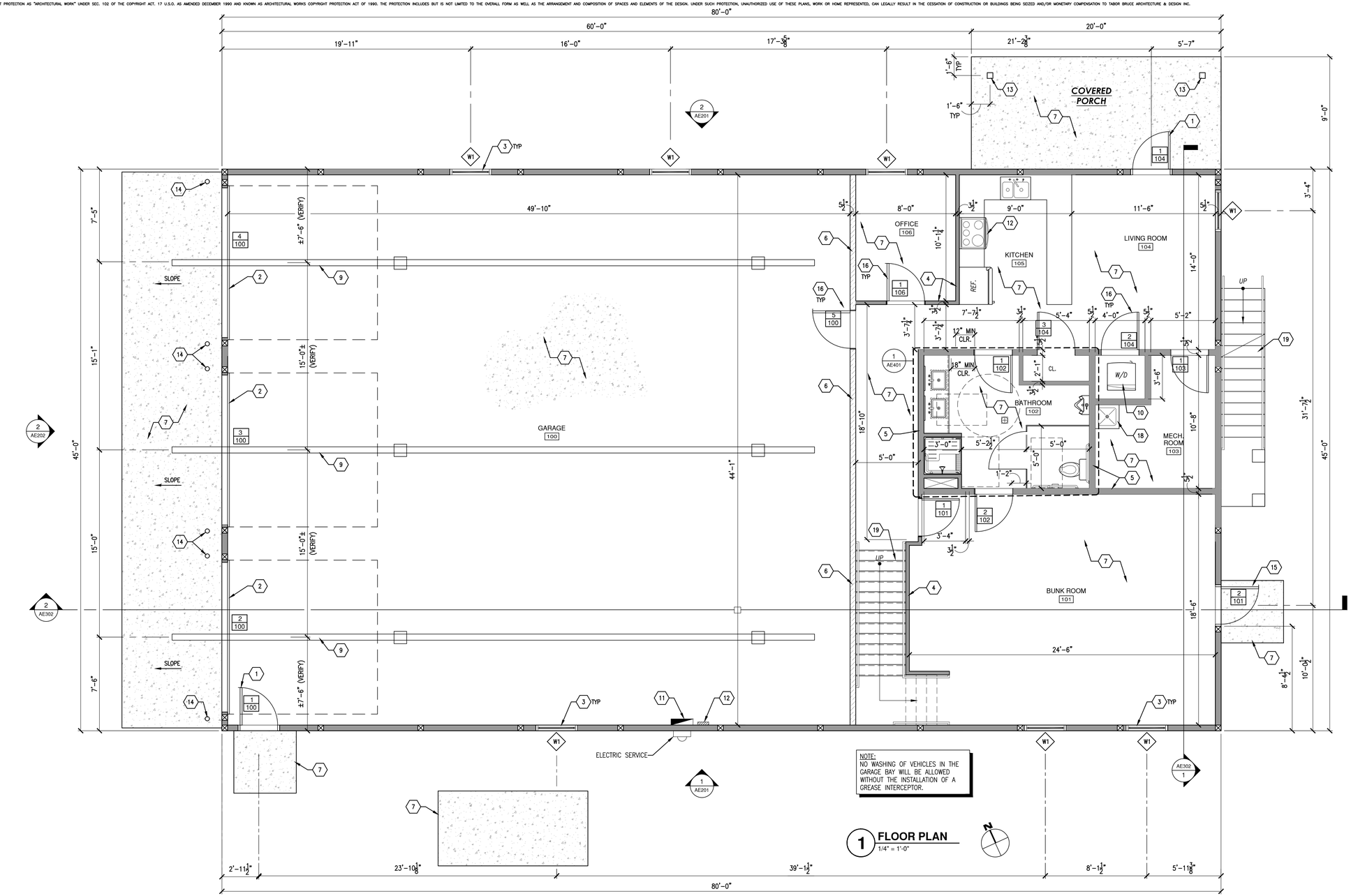
A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	W. WHITMAN
CHECKED BY	D. BRUCE

SHEET NAME
FOUNDATION/ FRAMING DETAILS

SHEET NO.
SB501



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

FLOOR PLAN KEYNOTES:

1. INSULATED FLUSH STEEL EXTERIOR DOOR. WIRE FOR POWER FOR OWNER PROVIDED MAGNETIC HARDWARE LOCKS.
2. 12'-0" x 12'-0" OVERHEAD DOOR W/ ELECTRIC OPENER BY OWNER. PROVIDE DUPLEX OUTLET FOR POWER.
3. NEW EXTERIOR INSULATED WINDOW. SEE WINDOW SCHEDULE.
4. NEW 2X4 WOOD STUD WALL @ 16" O.C. WITH 5/8" GYP. BD. ON EACH SIDE. RUN FROM FINISH FLOOR TO 10'-0" A.F.F. SEE PLAN FOR WALL DIMENSIONS.
5. NEW 2X6 WOOD STUD WALL @ 16" O.C. WITH 5/8" GYP. BD. ON EACH SIDE. RUN FROM FINISH FLOOR TO 10'-0" A.F.F. SEE PLAN FOR WALL DIMENSIONS.
6. 1-HR RATED WALL. SEE BUILDING SECTION FOR WALL CONSTRUCTION.
7. REINFORCED CAST-IN-PLACE CONCRETE SLAB. SEE SB101 FOR SLAB CONSTRUCTION. COORDINATE FINAL FLOOR FINISH WITH OWNER.
8. RATED STEEL DOOR W/ CLOSER, PAINTED. PROVIDE POWER FOR OWNER PROVIDED MAGNETIC LOCKS.
9. PROVIDE TRENCH DRAIN CENTERED ON OVERHEAD DOOR OPENING. SEE PLUMBING FOR ADDITIONAL INFORMATION.
10. STACKED WASHER/DRYER PROVIDED BY OWNER.
11. NEW 200 AMP ELEC. PANEL.
12. PROVIDE STANDARD GENERATOR SWITCH FOR FUTURE GENERATOR. CONSULT OWNER FOR DETAILS.
13. NEW 6X6 TREATED WOOD POST WITH SIMPSON GALVANIZED METAL POST BASE IMBEDDED IN CONCRETE.
14. 6" DIAMETER CONCRETE FILLED 42" TALL STEEL BOLLARDS. PAINT SAFETY YELLOW.
15. INSULATED FLUSH STEEL EXTERIOR DOOR. WIRE FOR POWER FOR OWNER PROVIDED MAGNETIC HARDWARE LOCKS. VERIFY LOCATION OF DOOR WITHIN THE BRACED BAY. SEE SF121 FOR ADDITIONAL INFORMATION.
16. INTERIOR DOOR AS SELECTED BY OWNER. PROVIDE THRESHOLD WHERE REQUIRED BY CHANGE IN FLR. FIN.
17. FINISHED FLOOR AS SELECTED BY OWNER.
18. FLOOR MOUNTED MOP SINK. SEE PLUMBING SCHEDULE FOR ADDITIONAL INFORMATION.
19. NEW WOOD FRAMED STAIRS WITH UNIFORM RISER AND TREADS. MAX RISER OF 7" AND MINIMUM 11" TREAD WITH 36" (MIN.) CLEAR WIDTH. TREAD SHALL HAVE 1" NOSING. TREADS AND RISER SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8" IN ANY FLIGHT OF STAIRS. PROVIDE 1-1/2"ø WOOD HANDRAIL (PAINTED) ON BOTH SIDES OF STAIR @ MIN HEIGHT OF 34" AND MAXIMUM OF 38" ABOVE STAIR NOSINGS. TOP OF RAIL +36" ABOVE FINISHED SURFACE RETURN HANDRAILS TO NEWEL POSTS OR SAFETY TERMINALS. HANDRAIL TO BE CONTINUOUS THE FULL FLIGHT OF STAIRS FROM A POINT DIRECTLY ABOVE LOWEST RISER TO A POINT DIRECTLY ABOVE LOWEST RISER TO A POINT DIRECTLY ABOVE TOP RISER. HANDRAILS SHALL EXTEND 12" HORIZ. ABOVE THE TOP RISER AND CONTINUED TO SLOPE FOR THE DEPTH OF 1 TREAD BEYOND THE BOTTOM RISER.GUARD RAILS TO BE CONSTRUCTCTED WITH PICKETS SPACED SO A 4" SHPERE CANNOT PASS THROUGHT THE RAILING. STAIRWAYS SHALL HAVE A MINIMUM HEADROOM OF 80" MEASURED VERTICALLY FROM DETAIL LINE CONNECTING THE EDGE OF THE NOSINGS.

GENERAL FLOOR PLAN NOTES:

- DO NOT SCALE DRAWINGS, DIMENSIONS SHALL PREVAIL. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RELATED TO THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. IF CONTRACTOR FAILS TO VERIFY DIMENSIONS AS INDICATED, ANY AND ALL CORRECTIVE ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL INTERIOR DIMENSIONS ARE SHOWN STUD TO STUD & DO NOT INCLUDE WALL FINISHES.
- ALL DOOR OPENINGS SHALL BE LOCATED 4" FROM ADJOINING WALL UNLESS NOTED OTHERWISE.
- FIELD VERIFY PLAN DIMENSIONS PRIOR TO ANY CASEWORK FABRICATION.
- ALL NEW WALLS SHALL BE FINISHED TO MATCH EXISTING SURFACES INCLUDING PRIMER & PAINT.
- CAULK ALL JOINTS BETWEEN DIFFERENT MATERIALS IE: GYPSUM BOARD & MASONRY.
- ALL WINDOWS WITHIN 24" OF ANY DOOR (REGARDLESS OF WALL PLANE), & WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE FLOOR OR WALKING SURFACE SHALL HAVE TEMPERED GLAZING.
- ANY OPERABLE WDW'S. W/ SILL LESS THAN 36" ABV. FIN. FLR. SHALL BE EQUIPPED W/ A OPENING CONTROL DEVICE PER 1013.8.1.
- IF NO WINDOW SCHEDULE IS PRESENT, CONTRACTOR/OWNER SHALL PROVIDE A MIN. OF 1 CODE COMPLIANT EGRESS WINDOW IN EVERY SLEEPING ROOM.
- SIZE OF STAIR RISERS MAY VARY ACCORDING TO SIZE OF FLOOR SYSTEM.
- ALL INTERIOR WALLS SHALL BE 2 X 4 STUDS @ 16" O.C. W/ 5/8" GYP. BOARD ON BOTH SIDES UNLESS NOTED OTHERWISE.

SYMBOLS LEGEND:

- DENOTES NEW FULL HEIGHT MASONRY WALLS
- DENOTES NEW FULL HEIGHT STUD WALLS
- DENOTES EXISTING WALLS TO REMAIN WHEN APPLICABLE
- DETAIL IDENTIFIER / SHEET NUMBER — DENOTES SECTION INDICATOR
- DETAIL IDENTIFIER / SHEET NUMBER — DENOTES DETAIL INDICATOR
- ELEVATION IDENTIFIER / SHEET NUMBER — DENOTES ELEVATION INDICATOR
- SPACE NAME / SPACE NUMBER — DENOTES SPACE IDENTIFIER
- X / XXX — DENOTES NEW DOOR AND FRAME SYMBOL
- W — DENOTES WALL TYPES, SEE SHEET GI103 FOR WALL TYPE INFORMATION
- SMOKE DETACTOR — D.S. DOWNSPOUT LOCATION
- W1 EXTERIOR WINDOW IDENTIFIER
- 1 REVISION NOTE
- 1 FLOOR PLAN KEYNOTE

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1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

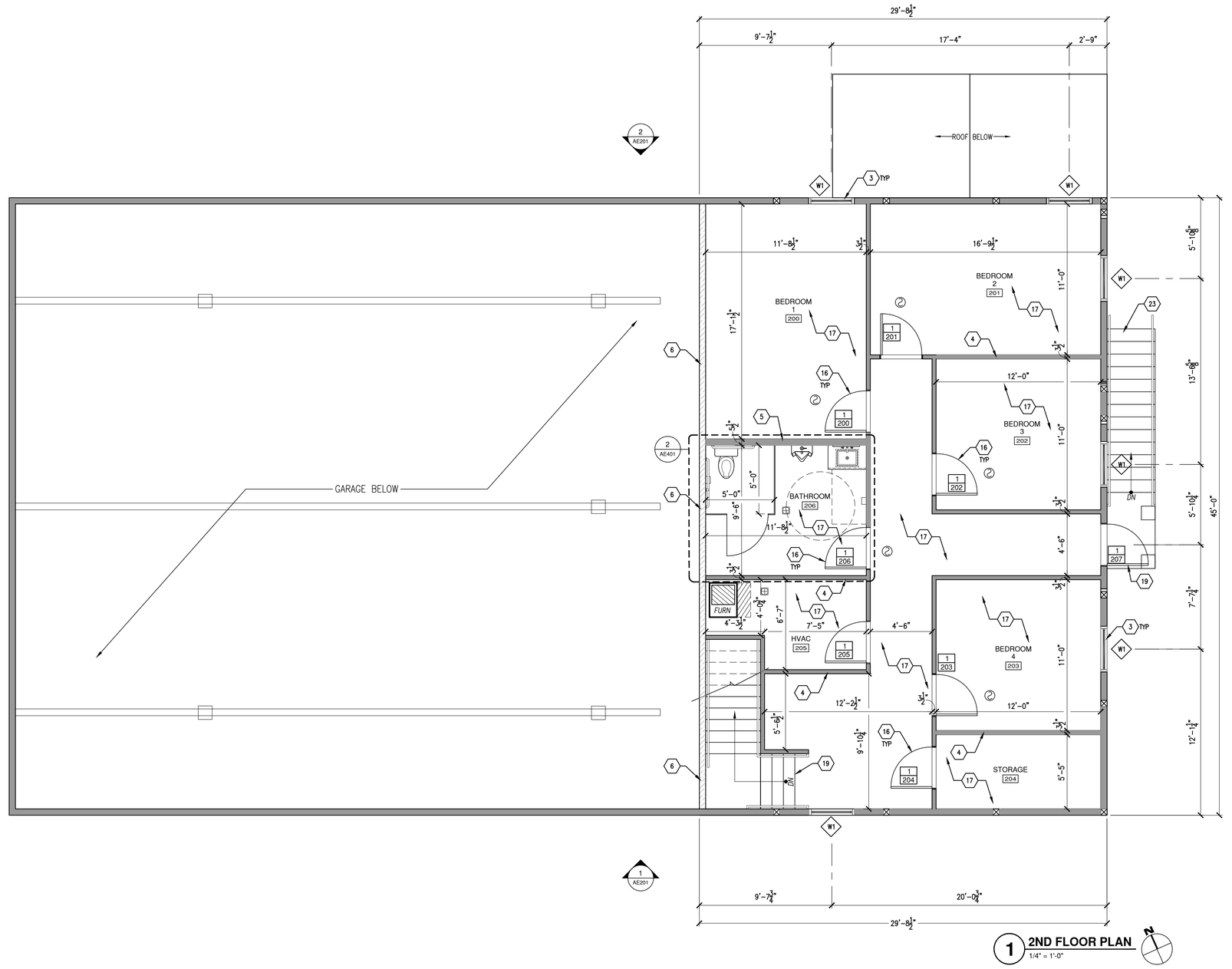
REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE — REGISTERED — NO. AR19900009 — STATE OF INDIANA — ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE
SHEET NAME	FLOOR PLAN
SHEET NO.	AE101



1 2ND FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN KEYNOTES:

1. INSULATED FLUSH STEEL EXTERIOR DOOR. WIRE FOR POWER FOR OWNER PROVIDED MAGNETIC HARDWARE LOCKS.
2. 12'-0" x 12'-0" OVERHEAD DOOR W/ ELECTRIC OPENER BY OWNER. PROVIDE DUPLEX OUTLET FOR POWER.
3. NEW EXTERIOR INSULATED WINDOW. SEE WINDOW SCHEDULE.
4. NEW 2X4 WOOD STUD WALL @ 16" O.C. WITH 5/8" GYP. BD. ON EACH SIDE. RUN FROM FINISH FLOOR TO 10'-0" A.F.F. SEE PLAN FOR WALL DIMENSIONS.
5. NEW 2X6 WOOD STUD WALL @ 16" O.C. WITH 5/8" GYP. BD. ON EACH SIDE. RUN FROM FINISH FLOOR TO 10'-0" A.F.F. SEE PLAN FOR WALL DIMENSIONS.
6. 1-HR RATED WALL. SEE BUILDING SECTION FOR WALL CONSTRUCTION.
7. REINFORCED CAST-IN-PLACE CONCRETE SLAB. SEE SB101 FOR SLAB CONSTRUCTION. COORDINATE FINAL FLOOR FINISH WITH OWNER.
8. RATED STEEL DOOR W/ CLOSER, PAINTED. PROVIDE POWER FOR OWNER PROVIDED MAGNETIC LOCKS.
9. PROVIDE TRENCH DRAIN CENTERED ON OVERHEAD DOOR OPENING. SEE PLUMBING FOR ADDITIONAL INFORMATION.
10. STACKED WASHER/DRYER PROVIDED BY OWNER.
11. NEW 200 AMP ELEC. PANEL.
12. PROVIDE STANDARD GENERATOR SWITCH FOR FUTURE GENERATOR. CONSULT OWNER FOR DETAILS.
13. NEW 6X6 TREATED WOOD POST WITH SIMPSON GALVANIZED METAL POST BASE IMBEDDED IN CONCRETE.
14. 6" DIAMETER CONCRETE FILLED 42" TALL STEEL BOLLARDS. PAINT SAFETY YELLOW.
15. INSULATED FLUSH STEEL EXTERIOR DOOR. WIRE FOR POWER FOR OWNER PROVIDED MAGNETIC HARDWARE LOCKS. VERIFY LOCATION OF DOOR WITHIN THE BRACED BAY. SEE SF121 FOR ADDITIONAL INFORMATION.
16. INTERIOR DOOR AS SELECTED BY OWNER. PROVIDE THRESHOLD WHERE REQUIRED BY CHANGE IN FLR. FIN.
17. FINISHED FLOOR AS SELECTED BY OWNER.
18. FLOOR MOUNTED MOP SINK. SEE PLUMBING SCHEDULE FOR ADDITIONAL INFORMATION.
19. NEW WOOD FRAMED STAIRS WITH UNIFORM RISER AND TREADS. MAX RISER OF 7" AND MINIMUM 11" TREAD WITH 36" (MIN.) CLEAR WIDTH. TREAD SHALL HAVE 1" NOSING. TREADS AND RISER SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8" IN ANY FLIGHT OF STAIRS. PROVIDE 1-1/2"ø WOOD HANDRAIL (PAINTED) ON BOTH SIDES OF STAIR @ MIN HEIGHT OF 34" AND MAXIMUM OF 38" ABOVE STAIR NOSINGS. TOP OF RAIL +36" ABOVE FINISHED SURFACE RETURN HANDRAILS TO NEWEL POSTS OR SAFETY TERMINALS. HANDRAIL TO BE CONTINUOUS THE FULL FLIGHT OF STAIRS FROM A POINT DIRECTLY ABOVE LOWEST RISER TO A POINT DIRECTLY ABOVE LOWEST RISER TO A POINT DIRECTLY ABOVE TOP RISER. HANDRAILS SHALL EXTEND 12" HORIZ. ABOVE THE TOP RISER AND CONTINUED TO SLOPE FOR THE DEPTH OF 1 TREAD BEYOND THE BOTTOM RISER.GUARD RAILS TO BE CONSTRUCTED WITH PICKETS SPACED SO A 4" SHPERE CANNOT PASS THROUGHT THE RAILING. STAIRWAYS SHALL HAVE A MINIMUM HEADROOM OF 80" MEASURED VERTICALLY FROM DETAIL LINE CONNECTING THE EDGE OF THE NOSINGS.

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- DENOTES WALL TYPES, SEE SHEET G103 FOR WALL TYPE INFORMATION
- EXTERIOR WINDOW IDENTIFIER
- SMOKE DETACTOR
- D.S. DOWNSPOUT LOCATION
- REVISION NOTE
- FLOOR PLAN KEYNOTE

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REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE — REGISTERED NO. AR19900009 — STATE OF INDIANA — ARCHITECT
H Doug Bruce

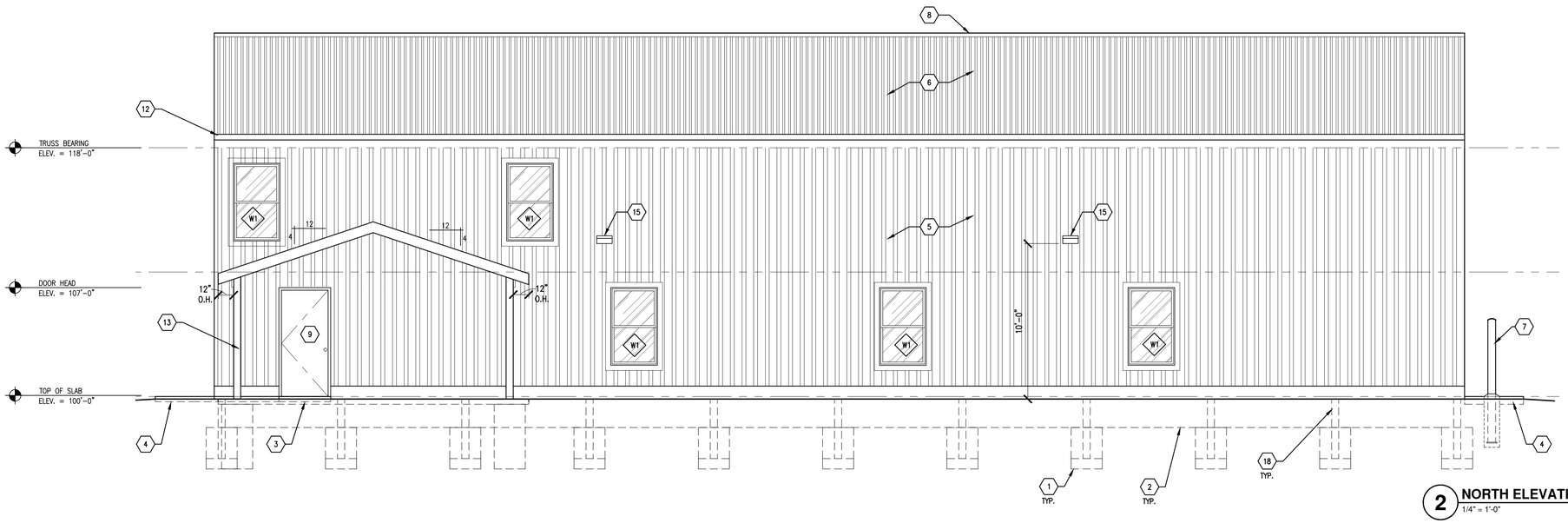
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
FLOOR PLAN

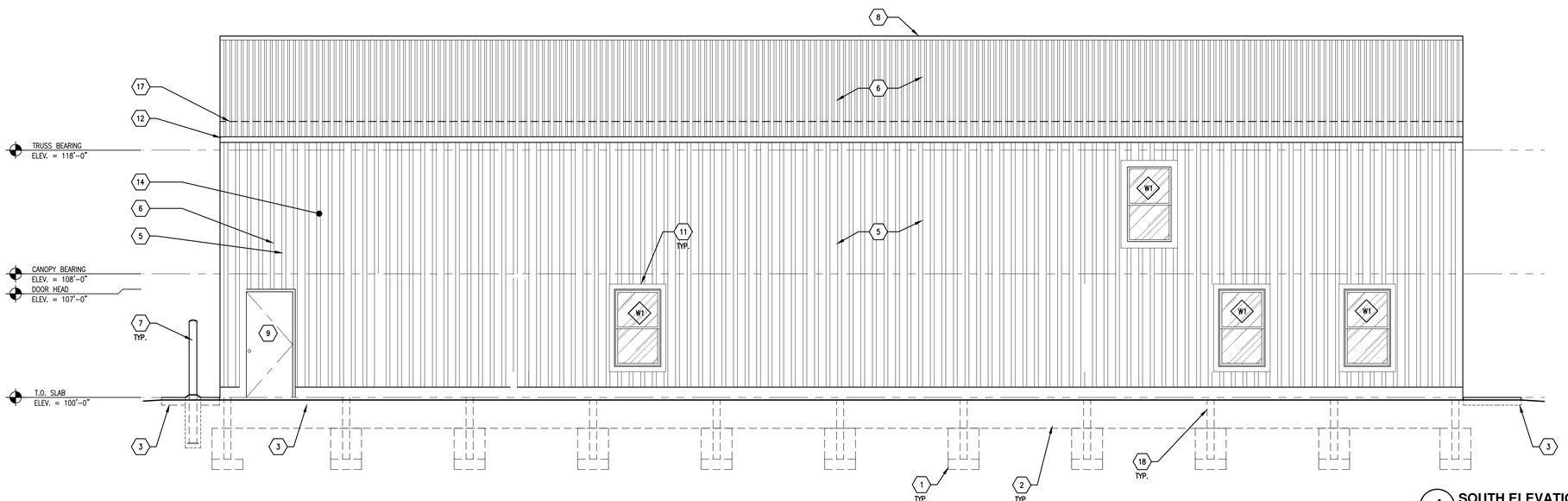
SHEET NO.
AE102

ELEVATION KEYNOTES:

1. CONC. PIER CENTERED AROUND STRUCTURAL LAMINATED POST – SEE FOUNDATION DRAWINGS
2. CONCRETE GRADE BEAM – SEE FOUNDATION DRAWINGS
3. CONCRETE STOOP – SEE FOUNDATION DRAWINGS
4. CONCRETE DRIVE – SEE FOUNDATION DRAWINGS
5. MIN. 26 GA. GPMA RIB SIDING
6. MIN. GAUGE, 16" WIDE, 6PB SNAPLOC STANDING SEAM METAL ROOF PANELS
7. PIPE BOLLARDS – SEE FOUNDATION DRAWINGS
8. METAL RIDGE VENT
9. NEW EXTERIOR METAL INSULATED DOOR, FRAME & HARDWARE. SEE DOOR SCHEDULE.
10. 12'-0" x 12'-0" OVERHEAD DOOR W/ ELECTRIC OPENER BY OWNER. PROVIDE DUPLEX OUTLET FOR POWER.
11. NEW EXTERIOR INSULATED WINDOW. SEE WINDOW SCHEDULE.
12. ALUMINUM WRAPPED FASCIA
13. 6"X6" TREATED WOOD POSTS
14. PROVIDE MINIMUM 8" FLASHING WHERE ROOF PANELS MEET WALL PANELS.
15. WALL PACK ON PHOTOELECTRIC SWITCH
16. 4500 SNOW BLOCK SNOW GUARDS
17. 6" SEEMLESS ALUM. GUTTERS
18. 3 PLY – 2"X8" BUILT UP COLUMNS



2 NORTH ELEVATION
1/4" = 1'-0"



1 SOUTH ELEVATION
1/4" = 1'-0"

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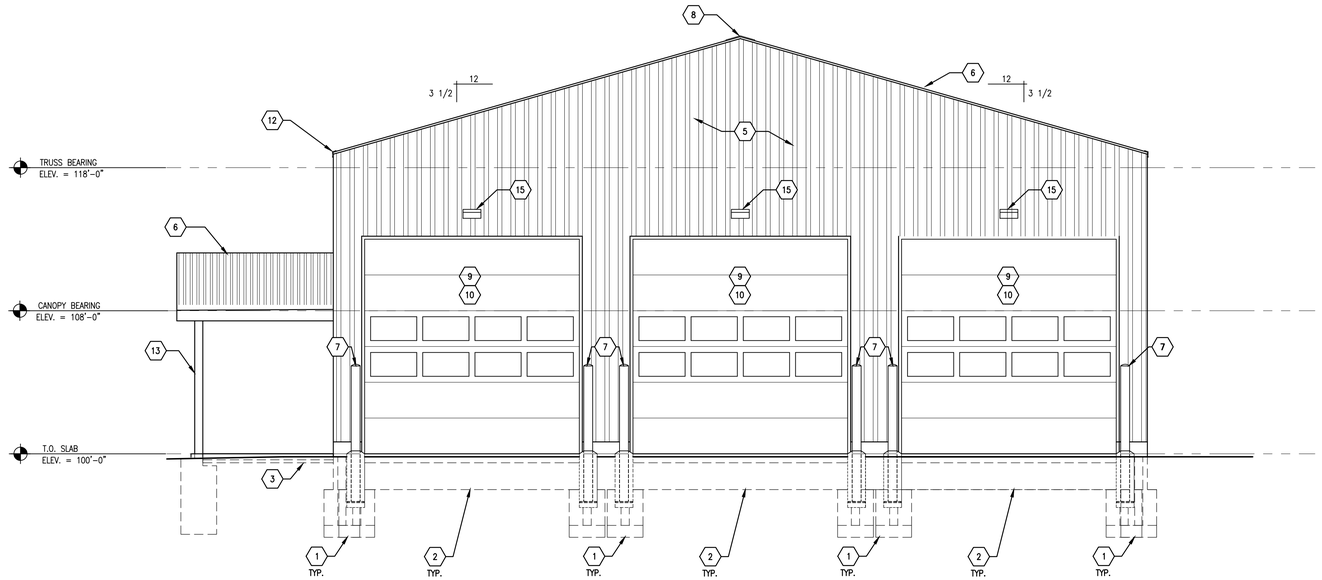
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

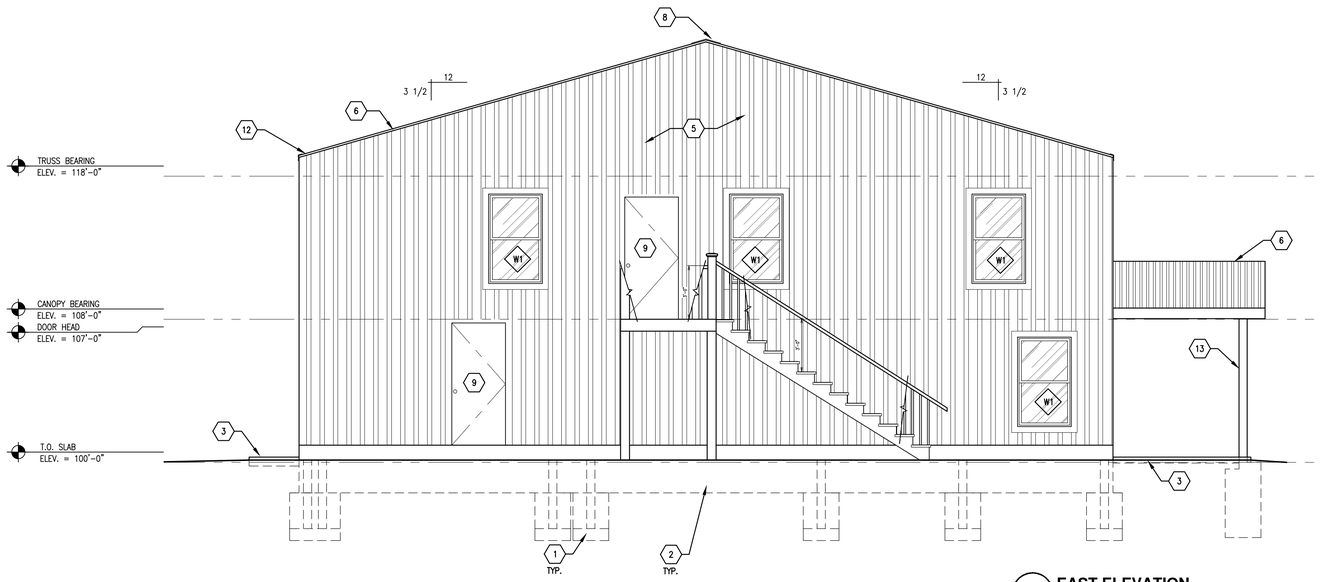
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
EXTERIOR ELEVATIONS

SHEET NO.
AE201



2 WEST ELEVATION
1/4" = 1'-0"



1 EAST ELEVATION
1/4" = 1'-0"

ELEVATION KEYNOTES:

1. CONC. PIER CENTERED AROUND STRUCTURAL LAMINATED POST – SEE FOUNDATION DRAWINGS
2. CONCRETE GRADE BEAM – SEE FOUNDATION DRAWINGS
3. CONCRETE STOOP – SEE FOUNDATION DRAWINGS
4. CONCRETE DRIVE – SEE FOUNDATION DRAWINGS
5. 36" METAL WALL PANELS (26 GAUGE MINIMUM) AS PERMA-CLAD OR EQUAL WITH EXPOSED FASTENERS. FINISH TO BE SELECTED FROM MANUFACTURERS STANDARD COLORS. INSTALL OVER 2x4 PURLINS SPACED AT 24"o.c. PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. METAL ROOF PANEL – 2" RIBBED, SEE ROOF PLAN
7. PIPE BOLLARDS – SEE FOUNDATION DRAWINGS
8. METAL RIDGE VENT
9. NEW EXTERIOR METAL INSULATED DOOR, FRAME & HARDWARE. SEE DOOR SCHEDULE.
10. 12'-0" x 12'-0" OVERHEAD DOOR W/ ELECTRIC OPENER BY OWNER. PROVIDE DUPLEX OUTLET FOR POWER.
11. NEW EXTERIOR INSULATED WINDOW. SEE WINDOW SCHEDULE.
12. ALUMINUM WRAPPED FASCIA
13. 6"X6" TREATED WOOD POSTS
14. PROVIDE MINIMUM 8" FLASHING WHERE ROOF PANELS MEET WALL PANELS.
15. WALL PACK ON PHOTOELECTRIC SWITCH

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A NEW FIRE STATION FOR:

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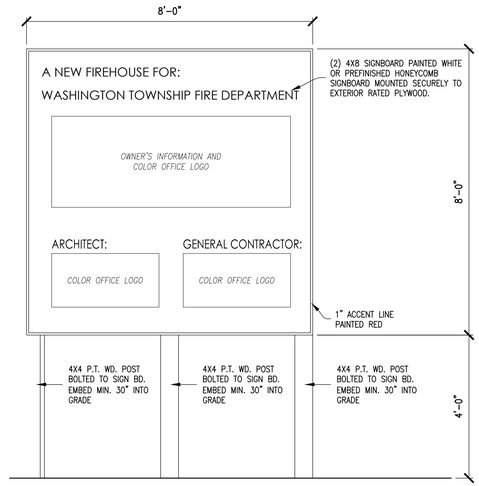
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

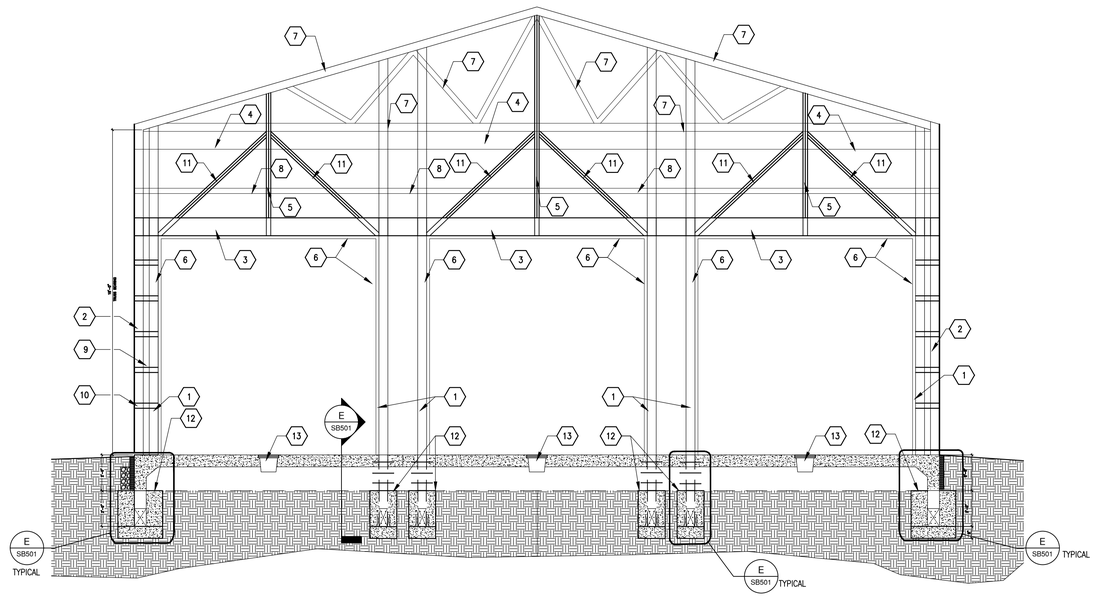
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
EXTERIOR ELEVATIONS

SHEET NO.
AE202



2 BUILDING SIGN BOARD
1/4" = 1'-0"



1 ENDWALL FRAMING DETAIL
1/4" = 1'-0"

FLOOR PLAN KEYNOTES:

1. 4 PLY GLUED LAMINATED 2X8 POST
2. 4 PLY GLUED LAMINATED 2X8 CORNER POST
3. 2X12 BOTH SIDES
4. 1-3/4"X11-1/4" LVL BOTH SIDES
5. (2) 2X8 VERTICALS
6. 2X12 DOOR FRAME (TYPICAL)
7. GABLE END TRUSS
8. 2X4 WALL GIRT
9. 2X4 WALL GIRTS @ 24" O.C.
10. TREATED SKIRT BOARDS
11. (2) 2X8 DIAGONAL BRACES
12. 18"ø X 8" CONCRETE FOOTING PAD (TYPICAL THIS WALL)
13. TRENCH DRAIN

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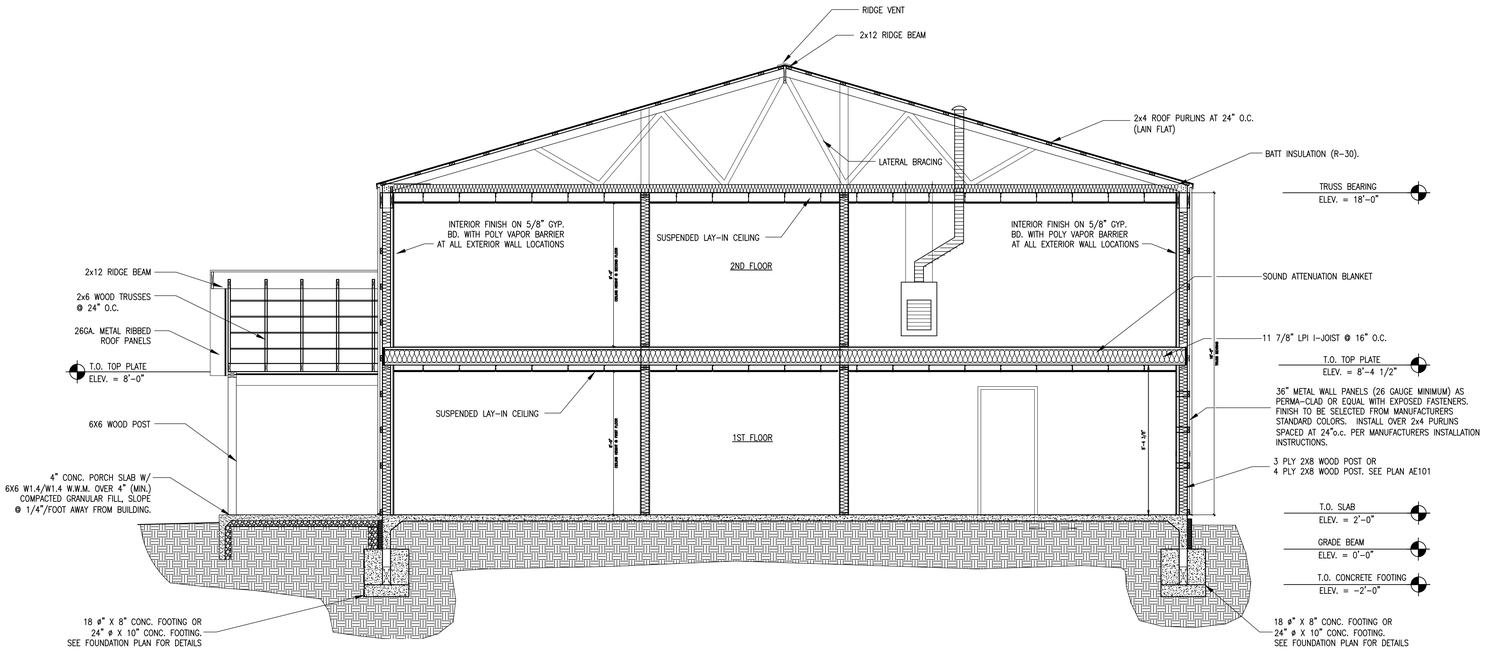
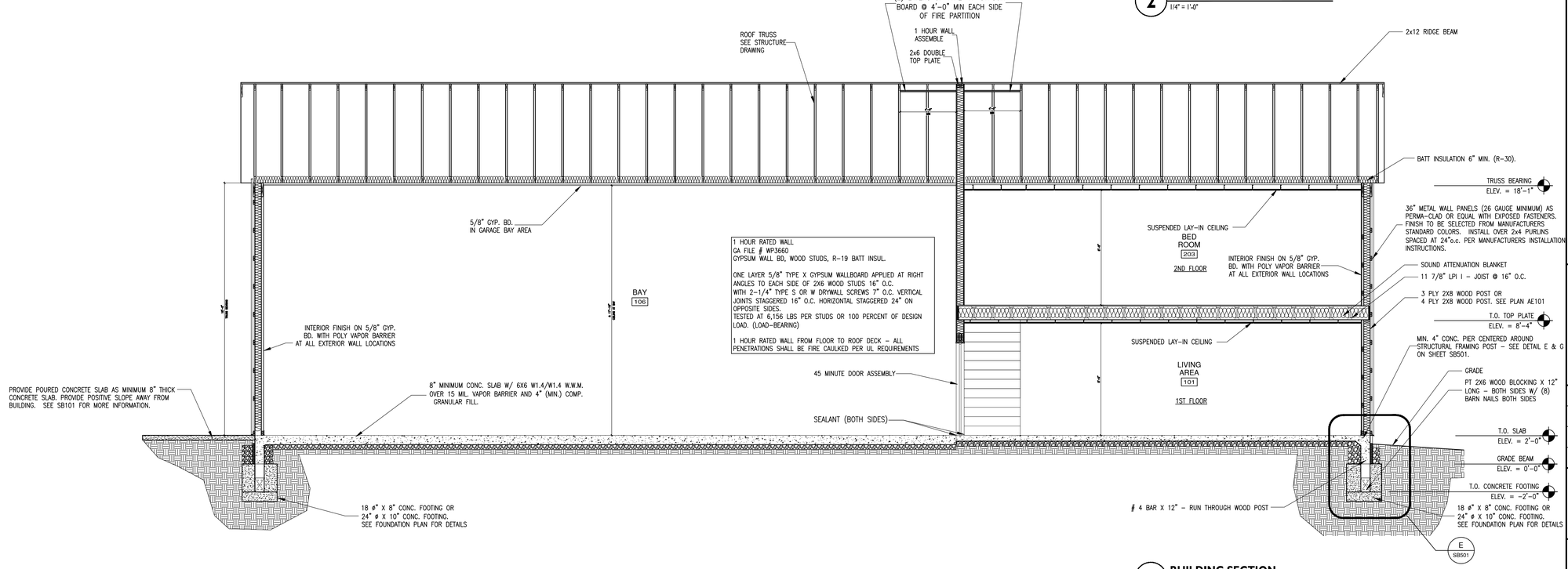
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
BUILDING SECTION

SHEET NO.
AE301



2 BUILDING SECTION
1/4" = 1'-0"



1 BUILDING SECTION
1/4" = 1'-0"

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HOWARD DOUGLAS BRUCE
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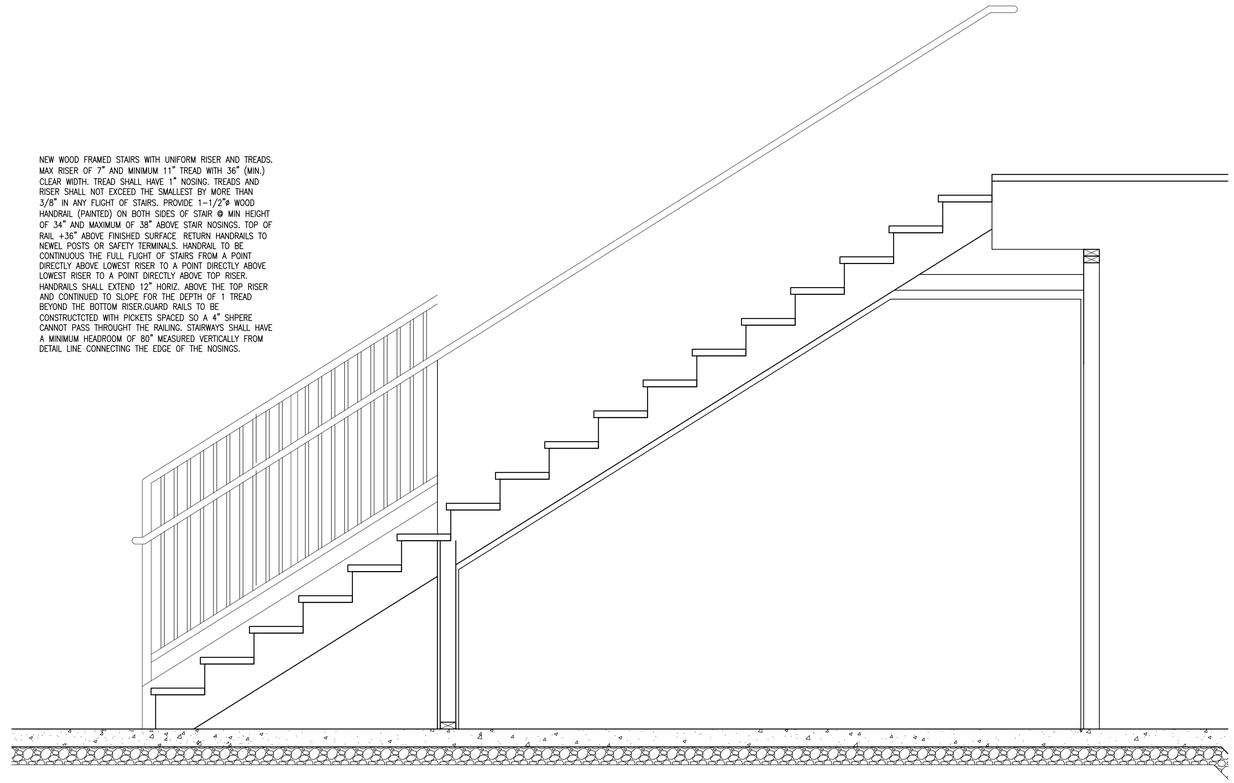
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
BUILDING SECTION

SHEET NO.
AE302

NEW WOOD FRAMED STAIRS WITH UNIFORM RISER AND TREADS. MAX RISER OF 7" AND MINIMUM 11" TREAD WITH 36" (MIN.) CLEAR WIDTH. TREAD SHALL HAVE 1" NOSING. TREADS AND RISER SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8" IN ANY FLIGHT OF STAIRS. PROVIDE 1-1/2"ø WOOD HANDRAIL (PAINTED) ON BOTH SIDES OF STAIR @ MIN HEIGHT OF 34" AND MAXIMUM OF 38" ABOVE STAIR NOSINGS. TOP OF RAIL +36" ABOVE FINISHED SURFACE. RETURN HANDRAILS TO NEWEL POSTS OR SAFETY TERMINALS. HANDRAIL TO BE CONTINUOUS THE FULL FLIGHT OF STAIRS FROM A POINT DIRECTLY ABOVE LOWEST RISER TO A POINT DIRECTLY ABOVE LOWEST RISER TO A POINT DIRECTLY ABOVE TOP RISER. HANDRAILS SHALL EXTEND 12" HORIZ. ABOVE THE TOP RISER AND CONTINUED TO SLOPE FOR THE DEPTH OF 1 TREAD BEYOND THE BOTTOM RISER.GUARD RAILS TO BE CONSTRUCTCTED WITH PICKETS SPACED SO A 4" SHPERE CANNOT PASS THROUGHT THE RAILING. STAIRWAYS SHALL HAVE A MINIMUM HEADROOM OF 80" MEASURED VERTICALLY FROM DETAIL LINE CONNECTING THE EDGE OF THE NOSINGS.



1 STAIR SECTION
3/4" = 1'-0"

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HOWARD DOUGLAS BRUCE
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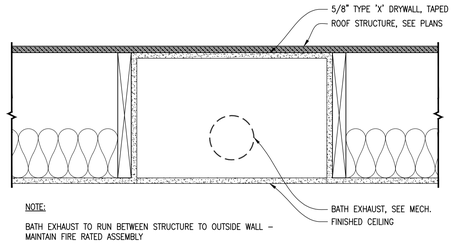
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
BUILDING SECTION

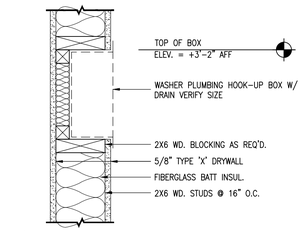
SHEET NO.
AE351



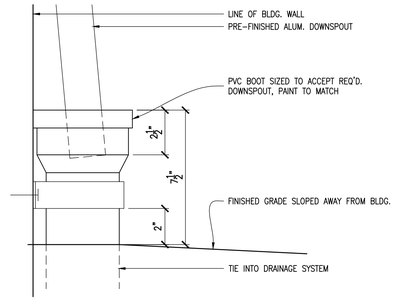
NOTE:

BATH EXHAUST TO RUN BETWEEN STRUCTURE TO OUTSIDE WALL – MAINTAIN FIRE RATED ASSEMBLY

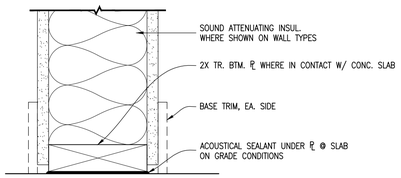
D BATHROOM EXHAUST DETAIL
1 1/2" = 1'-0"



C LAUNDRY BACKWALL DETAIL
1-1/2" = 1'-0"



B DOWNSPOUT BOOT DETAIL
3" = 1'-0"



A WOOD STUD PARTITION @ SLAB
3" = 1'-0"

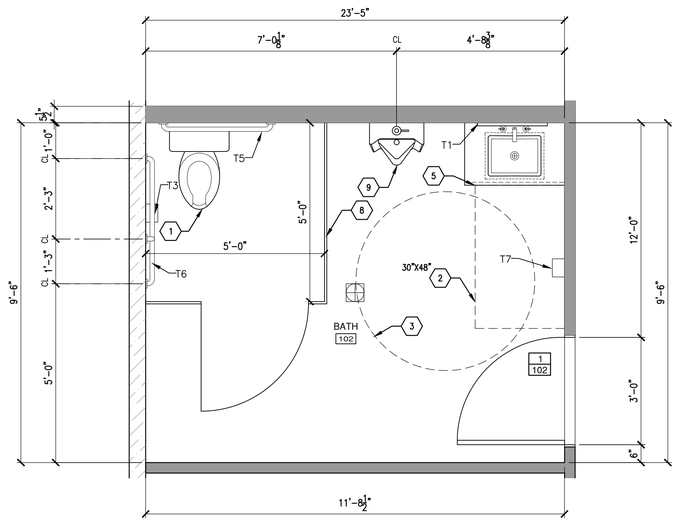
TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
T1	MIRROR	–	–	24" X 36" MOUNT BASE @ 40" AFF
T2	ADA UNDER SINK COVER	PRO EXTREME	X4444	COVER ALL EXPOSED PLUMBING
T3	TOILET TISSUE DISPENSER	BOBRICK	B-2892	MOUNT 24" AFF TO CENTERLINE
T4	VERTICAL GRAB BAR	BOBRICK	B-6806.99 X 18"	SS #4 SATIN FINISH, BLOCKING AS REQ'D.
T5	HORIZONTAL GRAB BAR	BOBRICK	B-6806.99 X 36"	SS #4 SATIN FINISH, BLOCKING AS REQ'D.
T6	HORIZONTAL GRAB BAR	BOBRICK	B-6806.99 X 42"	SS #4 SATIN FINISH, BLOCKING AS REQ'D.
T7	PAPER TOWEL DISPENSER	BOBRICK	–	MOUNT AT 51" MAX. – COORDINATE FRAMING

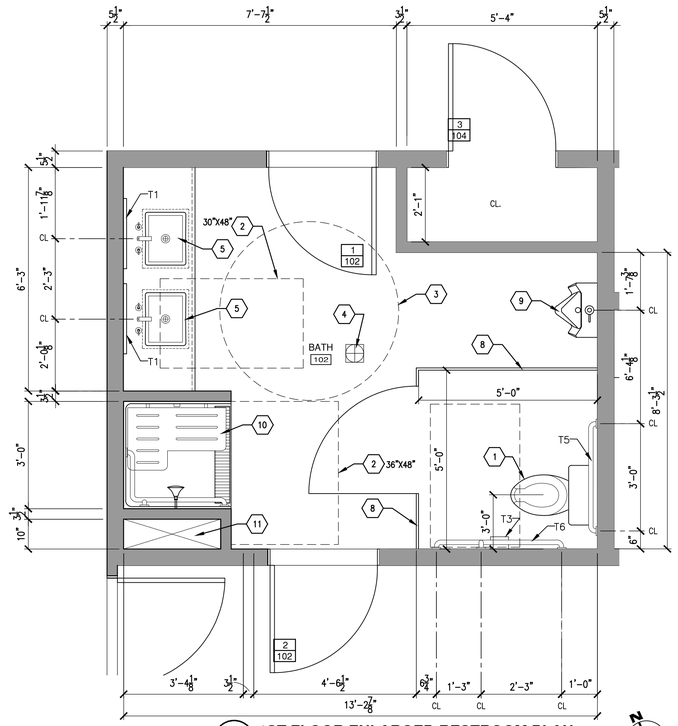
NOTE: CONTRACTOR TO VERIFY FRAME FOR WRAP AROUND FRAME THICKNESS.

DOOR SCHEDULE ABBREVIATIONS:

ALUM	ALUMINUM	HCW	HOLLOW CORE WOOD	VIN	VINYL
CLOS	CLOSER	MTL	METAL	W	WEATHERSTRIP
HM	HOLLOW METAL	SCW	SOLID CORE WOOD	WD	WOOD
HMI	HOLLOW METAL INSULATED	SLH	SPRING LOADED HINGES		



2 2ND FLOOR ENLARGED RESTROOM PLAN
1/2" = 1'-0"



1 1ST FLOOR ENLARGED RESTROOM PLAN
1/2" = 1'-0"

TOILET PLAN KEYNOTES:

1. NEW ADA COMPLIANT FLOOR MOUNTED WATER CLOSET PER SCHEDULE.
2. DASHED LINE INDICATES REQUIRED CLEAR FLOOR SPACE. SIZE NOTED ON DRAWING TO BE MINIMUM REQUIRED BY ADA.
3. DASHED LINE INDICATES 5'-0" TURNING RADIUS REQUIRED BY ADA.
4. NEW FLOOR DRAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
5. NEW ADA COMPLIANT WALL MOUNT LAVATORY PER SCHEDULE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. HORIZONTAL GRAB BAR. BOBRICK W/ SS #4 SATIN FINISH, BLOCKING AS REQUIRED. SEE FLOOR PLANS FOR SIZING. SEE 4/GC011 FOR MOUNTING LOCATIONS.
7. 18" VERTICAL GRAB BAR. BOBRICK W/ SS #4 SATIN FINISH, SEE FLOOR PLANS FOR SIZING. BLOCKING AS REQUIRED. SEE 4/GC011 FOR MOUNTING LOCATIONS.
8. NEW TOILET PARTITIONS AS BOBRICK 1" HPL, CLASSIC SERIES MODEL 1541 (FLOOR ANCHORED). COLOR TO BE SELECTED FROM MANUFACTURERS STANDARD COLORS.
9. NEW URINAL PER SCHEDULE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. NEW ADA COMPLIANT TRANSFER SHOWER PER SCHEDULE. PROVIDE APPROPRIATE GRAB BARS AND FOLD UP SEAT.
11. CHASE

GENERAL FLOOR PLAN NOTES:

- DO NOT SCALE DRAWINGS, DIMENSIONS SHALL PREVAIL. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RELATED TO THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. IF CONTRACTOR FAILS TO VERIFY DIMENSIONS AS INDICATED, ANY AND ALL CORRECTIVE ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL INTERIOR DIMENSIONS ARE SHOWN STUD TO STUD & DO NOT INCLUDE WALL FINISHES.
- ALL DOOR OPENINGS SHALL BE LOCATED 4" FROM ADJOINING WALL UNLESS NOTED OTHERWISE.
- FIELD VERIFY PLAN DIMENSIONS PRIOR TO ANY CASEWORK FABRICATION.
- ALL NEW WALLS SHALL BE FINISHED TO MATCH EXISTING SURFACES INCLUDING PRIMER & PAINT.
- CAULK ALL JOINTS BETWEEN DIFFERENT MATERIALS IE: GYPSUM BOARD & MASONRY.
- ALL WINDOWS WITHIN 24" OF ANY DOOR (REGARDLESS OF WALL PLANE), & WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE FLOOR OR WALKING SURFACE SHALL HAVE TEMPERED GLAZING.
- ANY OPERABLE WDW'S. W/ SILL LESS THAN 36" ABV. FIN. FLR. SHALL BE EQUIPPED W/ A OPENING CONTROL DEVICE PER 1013.8.1.
- IF NO WINDOW SCHEDULE IS PRESENT, CONTRACTOR/OWNER SHALL PROVIDE A MIN. OF 1 CODE COMPLIANT EGRESS WINDOW IN EVERY SLEEPING ROOM.
- SIZE OF STAIR RISERS MAY VARY ACCORDING TO SIZE OF FLOOR SYSTEM.
- ALL INTERIOR WALLS SHALL BE 2 X 4 STUDS @ 16" O.C. W/ 5/8" GYP. BOARD ON BOTH SIDES UNLESS NOTED OTHERWISE.

SYMBOLS LEGEND:

DENOTES NEW FULL HEIGHT MASONRY WALLS
DENOTES NEW FULL HEIGHT STUD WALLS
DENOTES EXISTING WALLS TO REMAIN WHEN APPLICABLE

DETAIL IDENTIFIER (0 / AE5XX) SHEET NUMBER — DENOTES SECTION INDICATOR
DETAIL IDENTIFIER (0 / AE5XX) SHEET NUMBER — DENOTES DETAIL INDICATOR
ELEVATION IDENTIFIER (0 / AE2XX) SHEET NUMBER — DENOTES ELEVATION INDICATOR
SPACE NAME / SPACE NUMBER (102) — DENOTES SPACE IDENTIFIER
DENOTES NEW DOOR AND FRAME SYMBOL (1 / 102)
DENOTES WALL TYPES, SEE SHEET G103 FOR WALL TYPE INFORMATION (W-)
W1 EXTERIOR WINDOW IDENTIFIER
D.S. DOWNSPOUT LOCATION
1 REVISION NOTE
1 FLOOR PLAN KEYNOTE

TABOR BRUCE ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-4258 WEB: WWW.TABORBRUCE.COM

REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE — REGISTERED — NO. AR19900009 — STATE OF INDIANA — ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME

SCHEDULES, ENLARGED PLAN AND DETAILS

SHEET NO.

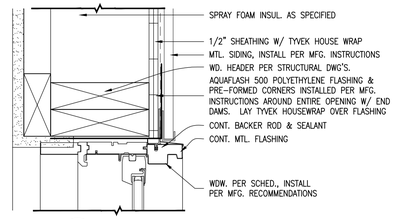
AE401

WINDOW SCHEDULE

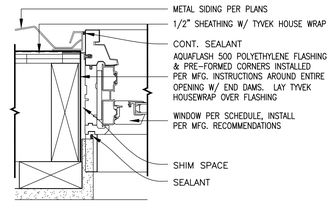
WINDOW									FRAME			INFORMATION
W1 MARK	ELEV.	SIZE		TYPE	MATERIAL	MFG.	MODEL #	HEAD HT. LOCATION (A.F.F.)	DETAIL SEE SHEET AE301			NOTES
		WIDTH	HEIGHT						HEAD	JAMB	SILL	
W1	1	3'-0"	5'-0"	DOUBLE-HUNG	VINYL	ANDERSEN	SERIES 100	7'-0"	E	D	C	–

DOOR AND FRAME SCHEDULE

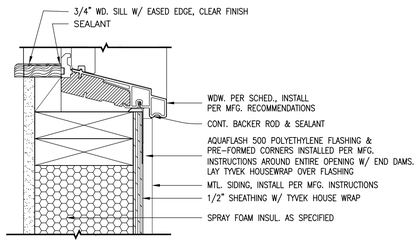
DOOR								FRAME					FIRE RATING LABEL	HARDWARE				NOTES
1/101 MARK		SIZE			MATL	ELEV	GLAZING	MATL	ELEV	DETAIL				SET	STOP		CLOSER	
DOOR #	ROOM #	WD	HGT	THK						HEAD	JAMB	SILL			WALL	FLOOR		
1	100	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	BAY	–	–	–	CURRISEAL HM FRAME. (4)(5)
2	100	12'-0"	12'-0"	1 3/4"	SCW	D2	–	HM	F1	–	–	–	–	BAY	Y(2)	–	–	OVERHEAD DOOR
3	100	12'-0"	12'-0"	1 3/4"	SCW	D2	–	HM	F1	–	–	–	–	BAY	Y(2)	–	–	OVERHEAD DOOR
4	100	12'-0"	12'-0"	1 3/4"	SCW	D2	–	HM	F1	–	–	–	–	BAY	Y(2)	–	–	OVERHEAD DOOR
5	100	3'-0"	7'-0"	1 3/4"	HM	D1	–	HM	F1	–	–	–	45 MIN.	BAY	Y(2)	–	–	45 MIN DOOR
1	101	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	–	Y(2)	–	–	–
2	101	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	OFFICE	Y(2)	–	–	–
1	102	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	BATH	Y(2)	–	–	–
2	102	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	BATH	–	–	–	CURRISEAL HM FRAME. (4)(5)
1	103	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	45 MIN.	ENTRY	–	–	–	–
1	104	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	LIVING ROOM	–	–	–	–
2	104	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	LIVING ROOM	–	–	–	–
3	104	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	HALL	–	–	–	–
1	106	3'-0"	7'-0"	1 3/4"	HMI	D1	–	HM	F1	–	–	–	–	–	–	–	–	–



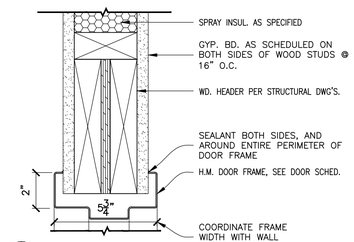
E WINDOW HEAD
3" = 1'-0"



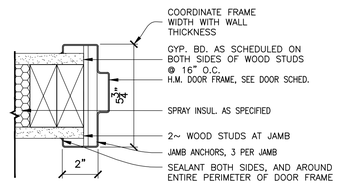
D WINDOW JAMB
3" = 1'-0"



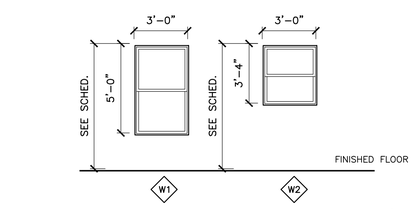
C WINDOW SILL
3" = 1'-0"



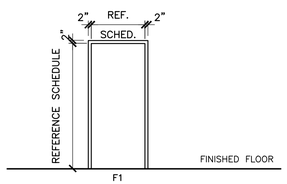
B HM INTERIOR DOOR HEAD
3" = 1'-0"



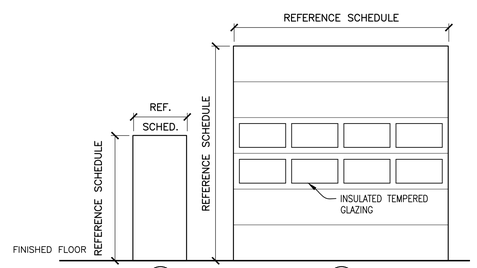
A HM INTERIOR DOOR JAMB
3" = 1'-0"



WINDOW TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"



DOOR TYPES

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REVISIONS

A NEW FIRE STATION FOR:

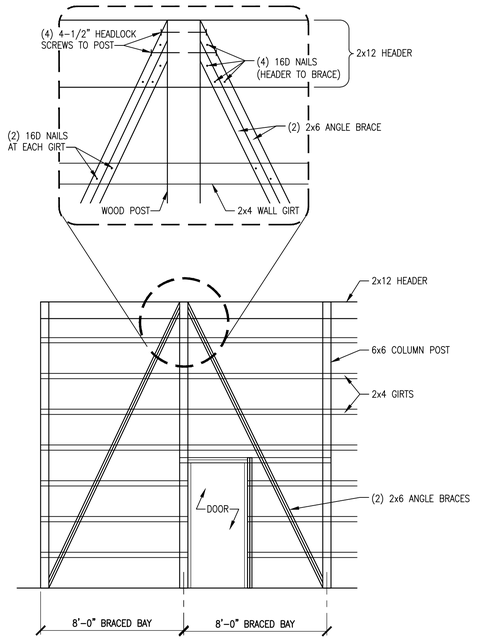
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

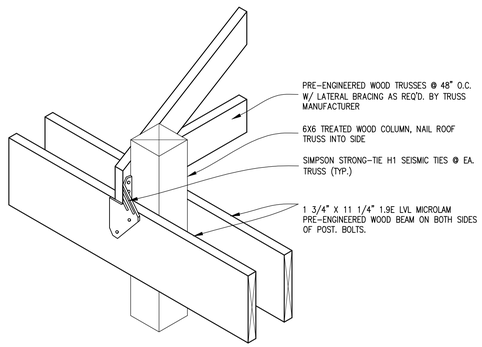
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
DOOR AND WINDOW DETAILS

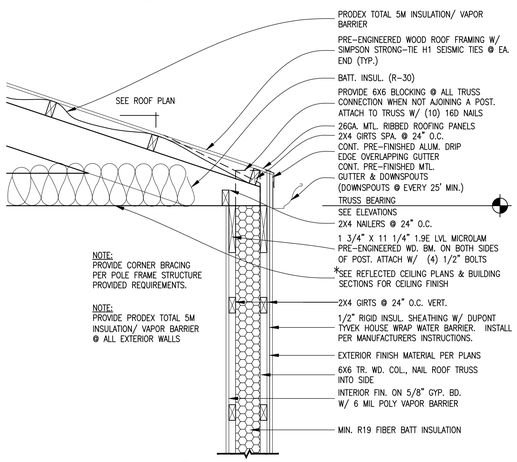
SHEET NO.
AE601



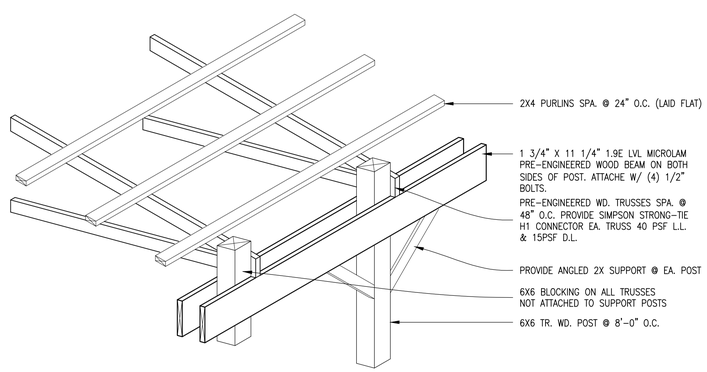
D BRACED BAY DETAILS
1/2"=1'-0"



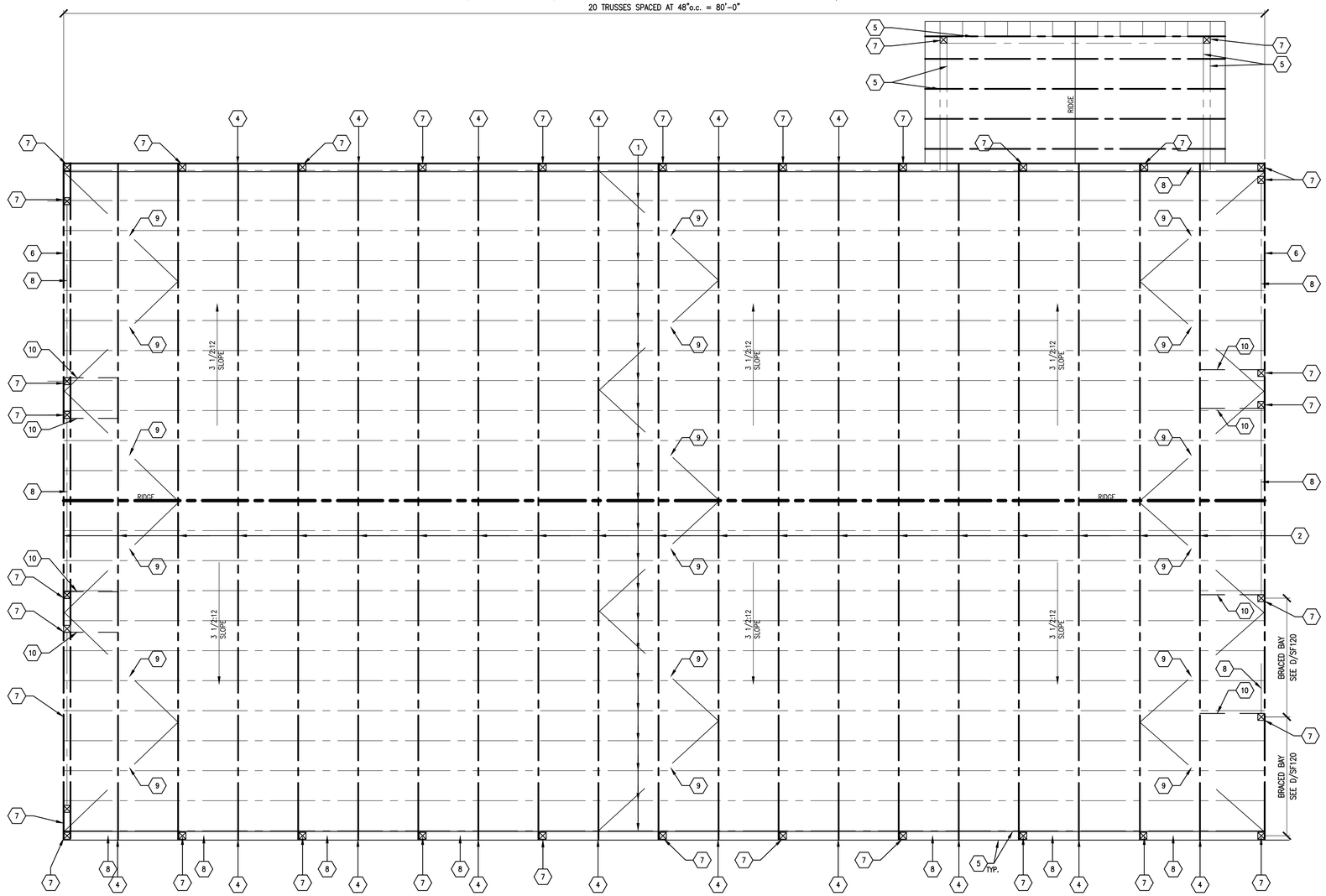
C SIMPSON STRONG-TIE H1 SEISMIC TIE
NOT TO SCALE



B WALL DETAIL
3/4" = 1'-0"



A FRAMING DETAIL
1/4" = 1'-0"



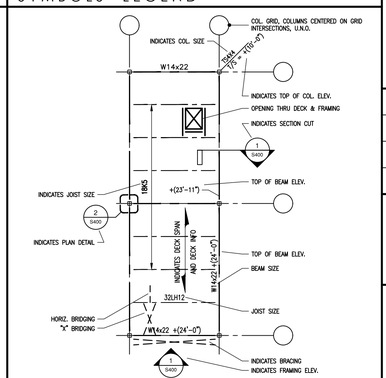
NOTE:
VERIFY FINAL BEARING WALLS/BEAMS/FRAMING WITH TRUSS MANUFACTURER. PROVIDE JOIST/BEAM LAYOUT DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

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

ROOF FRAMING PLAN KEYNOTES:

1. 2x4 PURLINS SPACED @ 24" O.C. (LAID FLAT)
2. PRE-ENGINEERED WOOD TRUSSES SPACED @ 48" O.C. PROVIDE SIMPSON STRONG-TIE EACH TRUSS. SEE TRUSS DETAIL ON SHEET SB501.
3. NOT USED
4. PROVIDE 6X6 BLOCKING ON ALL TRUSSES NOT ATTACHED TO SUPPORT POSTS SEE DETAIL 'A' ON THIS SHEET.
5. 1 3/4" X 11 1/4" 1.9E LVL MICROLAM PRE-ENGINEERED WOOD BEAM ON BOTH SIDES OF POST. ATTACHE W/ (4) 1/2" BOLTS.
6. GABLE END TRUSS.
7. 4 PLY 2X8 POST W/ 36"X12" FOOTING, 4PLY 2X8 POST W/ 24"X10" FOOTING, 3PLY 2X8 POST W/ 18"X10" FOOTING, OR 4 PLY 2X8 POST W/18" X 8" FOOTING SEE SB101 FOR FOOTING SIZES.
8. PROVIDE 3 1/2" X 9 1/2" PARALLAM HEADER @ ALL WINDOW & ENTRY DOOR OPENINGS. HEADERS LOC. @ O.H. DOOR LOC. TO BE DESIGNED BY ROOF TRUSS SUPPLIER.
9. ADD 2x4 BRACES ON BOTTOM OF TOP TRUSS CHORD AND ON TOP OF BOTTOM TRUSS CHORD AT 3 LOCATIONS
10. 2x6 DIAGONAL BRACES FROM 6x6 POSTS TO TOP OF TRUSS CHORD

SYMBOLS LEGEND



1 DEMOLITION NOTE
1 PLAN NOTE
1 REVISION NOTE

TABOR BRUCE
ARCHITECTURE & DESIGN INC.
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REVISIONS

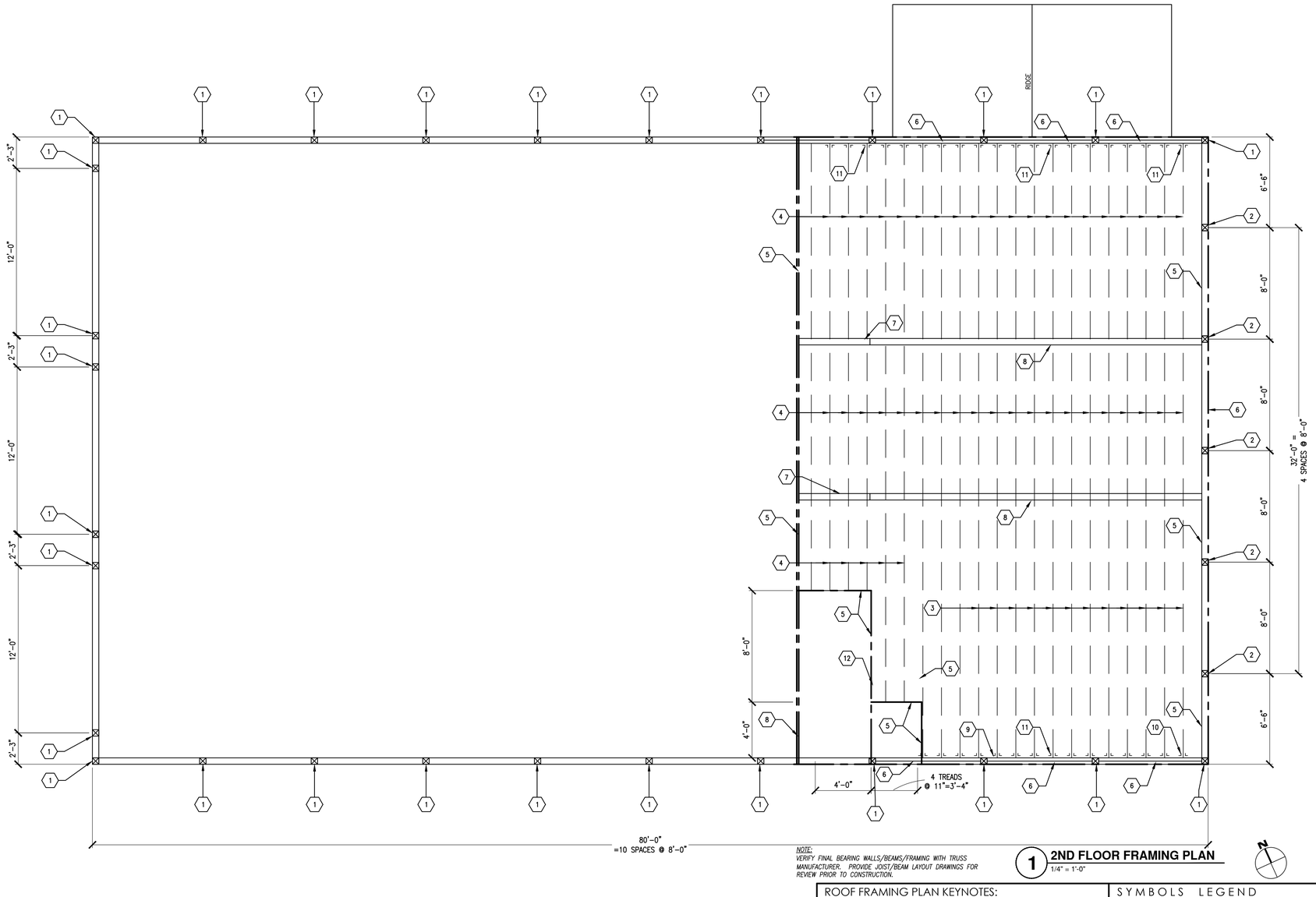
A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
ROOF FRAMING PLAN

SHEET NO.
SF120



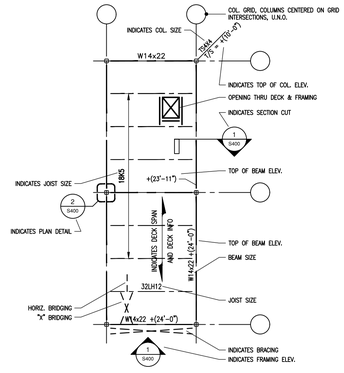
NOTE:
VERIFY FINAL BEARING WALLS/BEAMS/FRAMING WITH TRUSS MANUFACTURER. PROVIDE JOIST/BEAM LAYOUT DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

1 2ND FLOOR FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING PLAN KEYNOTES:

1. 4 PLY 2X8 GLUED LAMINATED POSTS
2. 3 PLY 2X8 GLUE-LAMINATED POST
3. 11 7/8" LPI42 PLUS I-JOISTS @ 16" O.C.
4. 11 7/8" LPI20 PLUS I-JOISTS @ 16" O.C.
5. 1 3/4" X 11 7/8" LVL MEMBERS
6. (2) 1 3/4" X 11 7/8" LVL BETWEEN COLUMNS
7. 3 PLY 2X10 DROP BEAM (4' SPAN)
8. 2X6 WALL BELOW
9. SIMPSON HUC 412 HANGER
10. SIMPSON MIU 3.56/11" I-JOIST HANGER
11. SIMPSON MIU 2.56/11" I-JOIST HANGER
12. 2X4 WALL BELOW

SYMBOLS LEGEND



1 DEMOLITION NOTE
1 PLAN NOTE
1 REVISION NOTE

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REVISIONS

A NEW FIRE STATION FOR:

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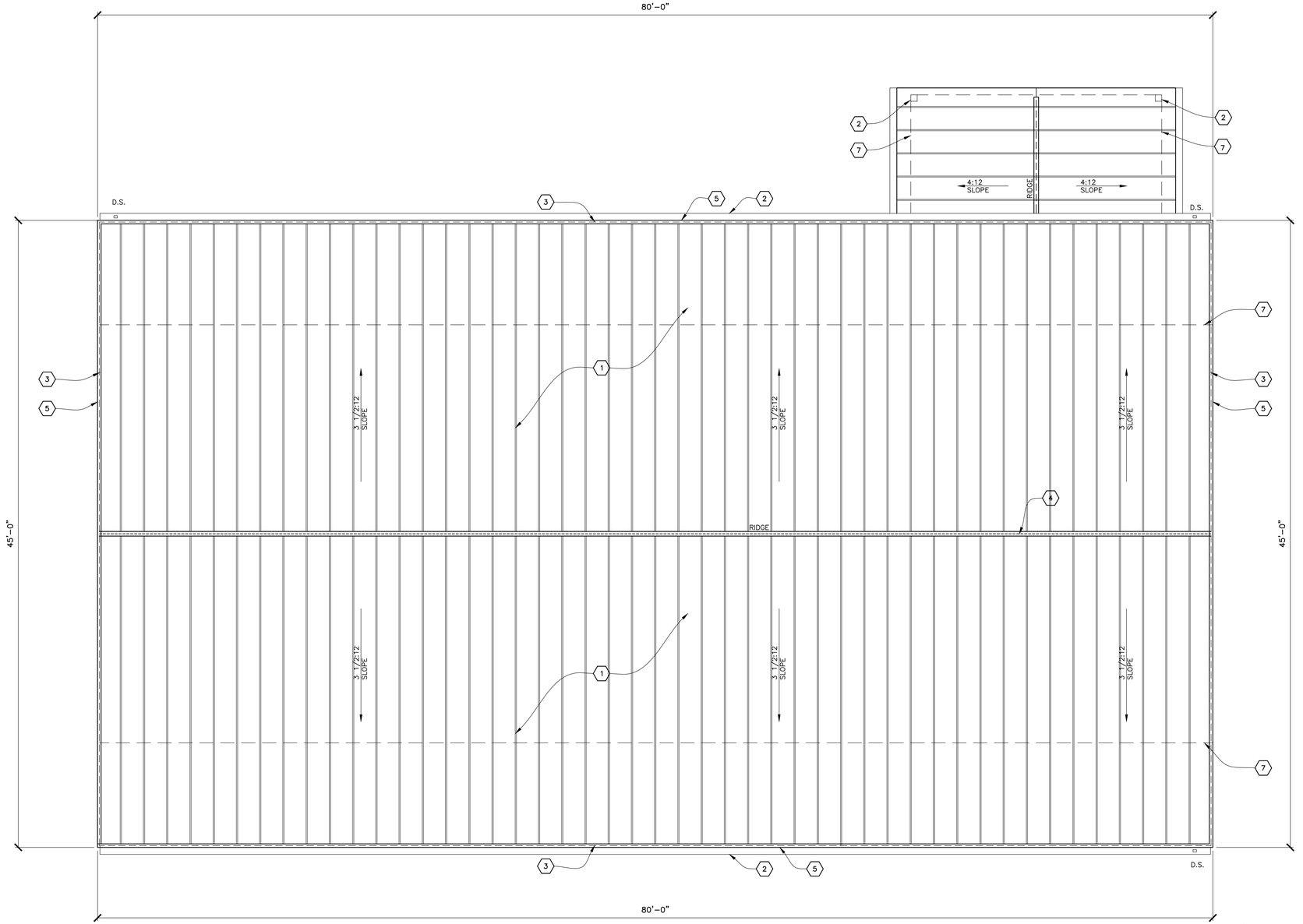
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H Doug Bruce

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
ROOF FRAMING PLAN

SHEET NO.
SF121



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

ROOF PLAN KEYNOTES:

1. NEW METAL ROOFING.
2. 6" K-STYLE PRE-FINISHED SEAMLESS ALUM. .032GA GUTTERS @ ALL ROOF EDGES ALONG BTM. OF ROOF SLOPE. EA. GUTTER SHALL HAVE 3"X4" ALUM. DOWNSPOUTS PROPERLY SUPPORTED W/ SPLASH-BLOCKS OR DIRECTLY TIE INTO BELOW GRADE STORM DRAIN SYSTEM.
3. LINE OF BUILDING'S EXTERIOR WALL BELOW.
4. PROVIDE CONT. RIDGE VENT @ ROOF RIDGES.
5. PROVIDE PRE-FINISHED ALUM. DRIP EDGE @ ENTIRE ROOF PERIMETER.
6. PROVIDE MTL. FLASHING @ ALL ROOF VALLEYS.
7. PROVIDE MTL. FLASHING SNOW GABAROS.

METAL ROOF NOTES:

1. FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT AND SERVICES FOR ALL PREFORMED ROOFING AS INDICATED, IN ACCORD WITH THE PROVISIONS OF THE CONTRACT DOCUMENTS. THE METAL ROOFING MANUFACTURER WILL PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE METAL ROOFING SYSTEM TO INCLUDE PANELS PANEL CLIPS, TRIM/FLASHING, FASCIAS, RIDGE, CLOSURES, SEALANTS, FILLERS AND ANY OTHER REQUIRED ITEMS.
2. PERFORMANCE TESTING: METAL ROOFING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH UL580, CLASS 90 RATING.
3. METAL ROOF PANEL SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592 FOR NEGATIVE LOADING. CAPACITY FOR GAUGE, SPAN OR LOADING OTHER THAN THOSE TESTED IS PERMITTED TO BE DETERMINED BY INTERPOLATING BETWEEN TEST VALUES ONLY.
4. THE SSSRS SHALL BE DESIGNED BY THE MANUFACTURER AS A COMPLETE SYSTEM. MEMBERS AND CONNECTIONS NOT INDICATED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COMPONENTS OF THE SYSTEM SHALL BE SUPPLIED OR SPECIFIED BY THE SAME MANUFACTURER.
5. DESIGN LOAD APPLICATION SHALL BE IN ACCORDANCE WITH IBC.
6. ANY ADDITIONS/REVISIONS TO FRAMING MEMBERS SUPPORTING THE SSSRS TO ACCOMMODATE THE MANUFACTURER/FABRICATOR'S DESIGN SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD. NEW OR REVISED FRAMING MEMBERS AND THEIR CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH [AISC 360] [AISI S100] [SJI K1.1] DESIGN SPECIFICATIONS. DEFLECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE, OR AS A MINIMUM, THE PROVISIONS OF THE AISC STEEL GUIDE SERIES 3 – "SERVICEABILITY DESIGN CONSIDERATIONS FOR STEEL BUILDINGS 2ND EDITION".
7. STORE ALL MATERIAL AND ACCESSORIES ABOVE GROUND ON WELL SUPPORTED PLATFORMS. STORE UNDER WATERPROOF COVERING. PROVIDE PROPER VENTILATION OF METAL ROOFING SYSTEM TO PREVENT CONDENSATION BUILD-UP BETWEEN EACH PANEL OR TRIM/FLASHING COMPONENT.
8. METAL ROOF PANEL
   - a. PROFILE: 2 INCH HIGH RIB X 16" INCH WIDE PANEL.
   - b. SEAM TYPE: [MECHANICALLY SEAMED – CONCEALED FASTENERS]
   - c. MINIMUM THICKNESS: PANEL TO MEET ALL SPECIFIED DESIGN LOADS, BUT NOT LESS THAN 0.023 INCHES (24 GAUGE)
   - d. PANEL BASE MATERIAL
     - d.a. GALVALUME STEEL SHEET, AZ50, CONFORMING TO ASTM A792 FOR PAINTED AND UNPAINTED PANELS.
   - e. TEXTURE: SMOOTH
   - f. FINISH
     - f.a. SELECTED FROM MANUFACTURER'S STANDARD OFFERING.
     - f.b. FACTORY COLOR FINISH: (SPECIFIER NOTE: CHOOSE ONE.)
     - f.c. FLUOROPOLYMER COATING PRODUCED WITH MINIMUM 70% PVDF RESIN.
9. CONCEALED ANCHOR CLIPS: CONCEALED ANCHOR CLIPS SHALL BE THE SAME AS THOSE USED DURING THE TESTING OF THE ROOF SYSTEM. CLIP BASES SHALL HAVE FACTORY PUNCHED OR DRILLED HOLES FOR ATTACHMENT. CLIPS SHALL BE MADE FROM MULTIPLE PIECES WITH THE ALLOWANCE FOR THE TOTAL THERMAL MOVEMENT REQUIRED WITHIN THE CLIP. FIXED CLIPS ARE PERMITTED WHEN THE MANUFACTURER CAN SUBSTANTIATE THAT THE SYSTEM CAN ACCOMMODATE THE THERMAL CYCLIC MOVEMENT UNDER SUSTAINED LIVE OR SNOW LOADS.

GENERAL ROOF PLAN NOTES:

- ALL WORK SHALL BE IN ACCORDANCE W/ THE BEST QUALITY STANDARDS OF THE TRADE & SHALL CONFORM W/ THE LATEST EDITION OF ALL FEDERAL, STATE, & LOCAL CODES & STANDARDS. THE SAME ARE MADE A PART OF THESE CONTRACT DOCUMENTS, AS REPEATED HEREIN.
- CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL & DRAWINGS, & BOTH ARE INTENDED TO BE COMPLIMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
- CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER SYSTEMS HAVE BE SHOWN DIAGRAMATICALLY & IN SOME CASES, ENLARGED FOR CLARITY. PROVIDE ADDT'L. ITEMS AS REQ'D. TO PROVIDE A COMPLETE & COORDINATED SYSTEM.
- CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE BLDG. & ROOF DAILY.
- STORE VOLATILE OR FLAMMABLE LIQUIDS IN UL LISTED FIRE CABINETS.
- CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR THE SECURITY OF ALL STORED MATERIALS & EQUIP. INSIDE OR OUTSIDE THE BLDG.
- CONTRACTOR SHALL FURNISH NECESSARY TEMPORARY PROTECTION FROM WEATHER TO PROTECT INTERIOR OF BLDG. FROM ELEMENTS OF WEATHER @ ALL TIMES.
- CONTRACTOR RESPONSIBLE FOR TRAFFIC PROTECTION DURING CONSTRUCTION. AREAS OF WORK & TRAFFIC BY VARIOUS TRADES SHALL BE PROTECTED BY TEMPORARY WALKING PADS.
- PROVIDE TR. WD. BLOCKING EQ. IN THICKNESS TO INSUL. SYSTEM @ ROOF PERIMETER & AROUND ALL ROOF PENETRATIONS. ANCHOR PER SECTION 1-49 OF THE FM GLOBAL LOSS PREVENTION GUIDE.
- EXTEND ALL PLUMBING VENTS TO PROVIDE A MIN. OF 12" OF HT. FROM TOP OF INSUL. ALL FITTINGS TO BE AIR & WATER TIGHT. SEE PLUMBING PLANS.
- ROOF INSUL. SADDLES & CRICKETS ARE DIAGRAMATIC. ROOF INSUL. MFG'S. SHALL DESIGN & SIZE THESE PER ROOF MEMBRANE MFG'S RECOMMENDATIONS. CRICKETS & SADDLES TO BE A MIN. WIDTH OF 1/2 THE SADDLE LENGTH.
- PROVIDE SADDLES/CRICKETS AROUND ALL NEW ROOF TOP EQUIPMENT.
- PROVIDE TAPERED INSUL. WHERE REQ'D. TO TRANSITION FROM ONE INSUL. HT. TO ANOTHER.
- NOTCH ALL INSUL. AS REQ'D. TO ACCOMODATE SURFACE MTD. CONDUIT, FASTENERS, OFFSETS & OTHER PROJECTIONS EXTENDING ABOVE THE SURFACE OF THE DECK.
- PERIMETER EDGE MTL. TO COMPLY WITH ANSI/SPRI ES-1 FM GLOBAL 1-49.
- SEE MECHANICAL, ELECTRICAL & PLUMBING (MEP) SHEETS FOR ROOF TOP EQUIP.

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REVISIONS

A NEW FIRE STATION FOR:

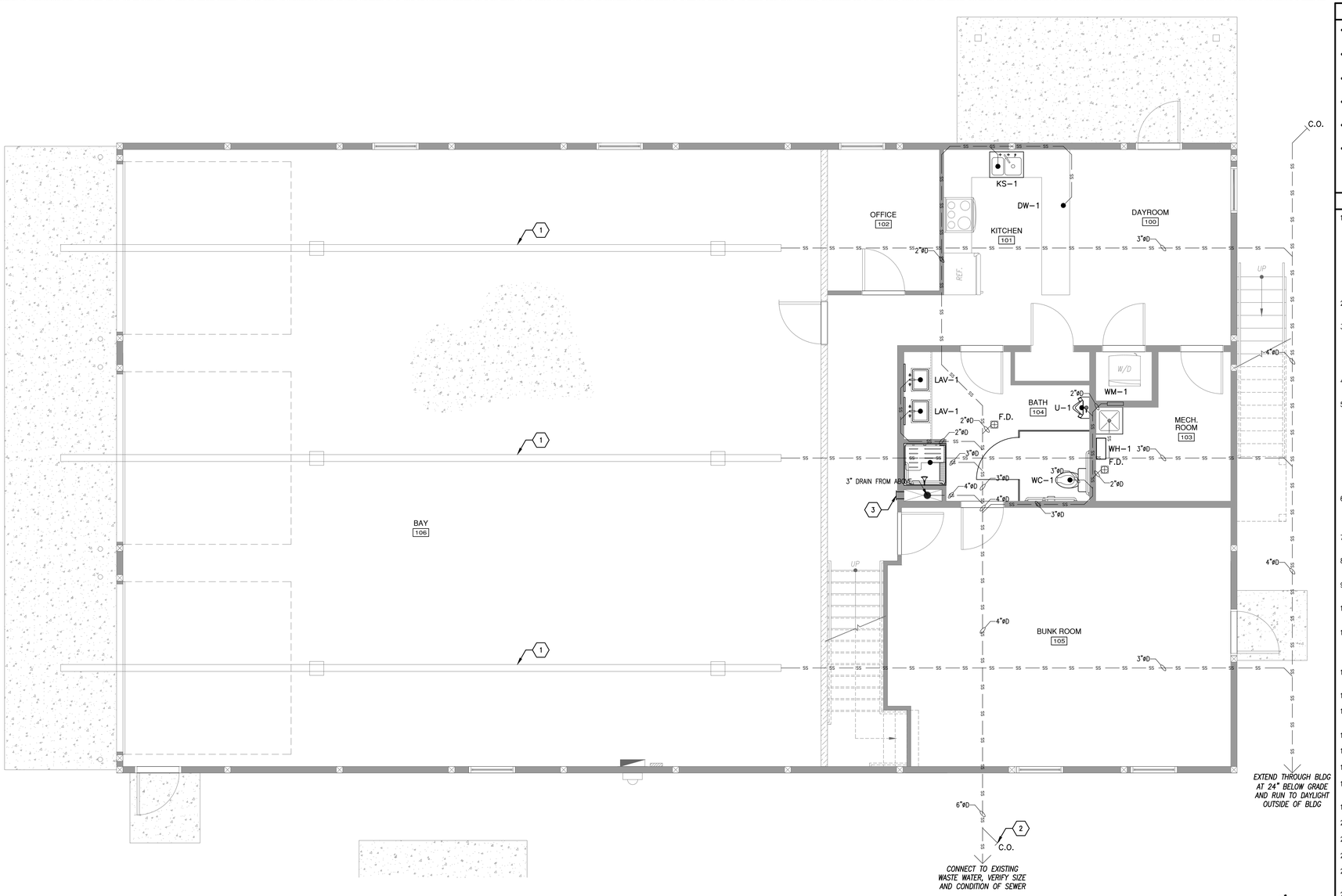
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
ROOF PLAN

SHEET NO.
SF122



1 FIRST FLOOR PLUMBING WASTE PLAN

1/4" = 1'-0"

PLUMBING WASTE PLAN KEYNOTES:

1. PROVIDE TRENCH DRAIN AS NDS DURA SLOPE DS-097 WITH LOAD RATING FOR CLASS D HEAVY DUTY TRAFFIC, OR APPROVED EQUAL. PROVIDE DS-232 GRATES AND DS-200 CAST IRON FRAMES, OR AS RECOMMENDED BY TRENCH DRAIN SUPPLIER.
2. LOCATE NEW CLEAN OUT 5'-0" AWAY FROM BUILDING.
3. PROVIDE STAINLESS STEEL ACCESS PANEL INTO CHASE

GENERAL PLUMBING NOTES:

- ALL PLUMBING WORK IS TO BE IN ACCORDANCE WITH THE INDIANA PLUMBING CODE, 2012 EDITION (675 IAC 16-1.4) EFFECTIVE 12/24/12.
- COORDINATE ALL NEW UNDERSLAB PIPING WITH ALL NEW AND EXISTING STRUCTURAL FOOTER/FOOTER PAD LOCATIONS.
- THIS CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH ALL OTHER TRADES AS REQUIRED FOR A COMPLETE AND OPERABLE PLUMBING SYSTEM.
- ALL INTERIOR HORIZONTAL STORM AND SANITARY PIPING SHALL BE INSTALLED AT THE MINIMUM SLOPES AS REQUIRED BY INDIANA PLUMBING CODE, U.N.O.
- CONTRACTOR TO REFERENCE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING. COORDINATE WITH GENERAL TRADES.
- PROVIDE WATER HAMMER ARRESTERS ON ALL QUICK-CLOSING VALVES PER THE PROJECT SPECIFICATIONS AND THE PDI WH-201 GUIDELINES.

PLUMBING PLAN NOTES:

1. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS. ANY DEVIATION FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER REPRESENTATIVE OR DESIGN ENGINEER. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. HOWEVER, ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THESE DESIGN PLANS SHALL NOT BE ALLOWED WITHO INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THESE DESIGN PLANS SHALL NOT BE ALLOWED WITHO APPROVAL BY THE OWNER REPRESENTATIVE OR THE DESIGN ENGINEER.
2. INSTALL ALL THREADED CLEAN OUT PLUGS WITH PIPE DOPE TO ALLOW EASY REMOVAL IN THE FUTURE.
3. IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED UNDER PLUMBING CONTRACT WILL FIT THE SPACE AVAILABLE. PLUMBING CONTRACT WILL FIT THE SPACE AVAILABLE. PLUMBING CONTRACTOR SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
4. ALL PLUMBING FIXTURES SHALL BE NEATLY CAULKED WITH SILICONE COMPOUND WHERE FIXTURE MEETS WALL AFTER APPLICATION OF FINAL INTERIOR FINISH.
5. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO EQUIPMENT PROVIDED UNDER HIS CONTRACT. REFER TO ELECTRICAL PLANS FOR LOCATIONS. OF JUNCTION BOXES, DISCONNECTS, AND CIRCUIT BREAKERS (PANEL BOARDS). TYPE, SIZE AND NUMBER OF CONDUCTORS AND CONDUITS TO EQUIPMENT SHALL BE EQUAL TO THE JUNCTION BOXES AND DISCONNECT SWITCHES. IN CASE OF PLUMBING EQUIPMENT CONNECTION TO A CIRCUIT BREAKER, THE NUMBER AND SIZE OF CONDUCTORS AND CONDUIT SHALL CONFORM TO THE LATEST NATIONAL ELECTRICAL CODE REGULATIONS. ALL MOTOR STARTERS, SWITCHES, CONTROL DEVICES, ETC., PROVIDED BY THIS CONTRACTOR SHALL BE RECESSED IN THE WALLS, EXCEPT WHERE THESE ITEMS ARE LOCATED IN MECHANICAL ROOMS. PROVIDE A NAMEPLATE FOR ALL EQUIPMENT, SWITCHES, CONTROL DEVICES, ETC.
6. PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL GAS PIPING AS SHOWN ON PLANS. ALL GAS PIPING SHALL COMPLY WITH LOCAL CODES. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL GAS EQUIPMENT INSTALL REGULATORS AT EQUIPMENT WHERE REQUIRED BY MANUFACTURER OR CUTS SUPPLIED BY FURNISHING CONTRACTOR.
7. PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR APPROVED FLOOR PLAN AND DIMENSIONS. DO NOT SCALE PLUMBING DRAWINGS.
8. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONDENSATE DRAIN PIPING ON AIR HANDLING UNITS. COORDINATE WORK WITH MECH. CONTRACTOR.
9. ALL INDIRECT WASTE LINES SHALL HAVE A MINIMUM OF 2" VERTICAL AIR GAP WHERE IT TERMINATES AT FLOOR SINK, FLOOR DRAIN OR OPEN HUB DRAIN.
10. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL PRIME CONTRACTORS PRIOR TO INSTALLATION OF HIS WORK.
11. ALL WATER PIPING TO BE CROSS-LINKED POLYETHYLENE (PEX) PIPING IN SIZES AS SHOWN ON DRAWINGS. PROVIDE BRASS PEX CRIMP FITTINGS MANUFACTURED TO ASTM F1807 STANDARD, OR POLY ALLOY PEX CRIMP FITTINGS MANUFACTURED TO ASTM F2159 STANDARD. PUSH FITTINGS (PUSH-FIT, PUSH-TO-CONNECT) ARE NOT ALLOWED.
12. SET TOP RIM OF ALL FLOOR SINKS, FLOOR DRAINS, AND TRENCH DRAINS FLUSH WITH FINISHED FLOOR
13. FLOOR DRAINS AS JOSAM, JR SMITH OF EQUAL AND SHALL INCLUDE INTEGRAL CLEAN OUT.
14. CLEAN OUTS SHALL BE FLUSH WITH FINISHED FLOOR OR FINISHED WALL AND INCLUDE BRASS THREADED CAP.
15. MINIMUM SIZE FOR UNDERGROUND SANITARY PIPE IS 2".
16. PROVIDE RELIEF VENTING AS REQUIRED.
17. INSURE THAT ROOF VENT IS A MINIMUM OF 12" ABOVE ROOF PENETRATION.
18. PROVIDE A 4" MINIMUM CLEAN OUT, NO LESS THAN 100 FEET APART, IN THE MAIN BUILDING SANITARY DRAIN.
19. FOR UNDERSLAB PIPING, WHERE PIPING PENETRATES SLAB, PROVIDE NONMETALLIC SLEEVE.
20. ALL LINES SHALL BE SQUARE AND PLUMB WITH THE BUILDING
21. ALL DROPS TO FIXTURES SHALL BE 1/2" MINIMUM U.N.O.
22. INSULATE ALL HOT AND COLD WATER LINES, WITH 1/2" AEROTUBE (ARMAFLEX.)
23. PROVIDE TEMPERING VALVE AT WATER HEATER TO LIMIT LAV. WATER TEMPERATURE TO 110 DEGREES.
24. PROVIDE LINE SIZE SHUT-OFF AT ALL EQUIPMENT LOCATIONS.
25. PROVIDE DIELECTRIC CONNECTIONS AT ALL LOCATIONS. WITH FERROUS MATERIALS.
26. WALL ASSEMBLY PENETRATIONS SHALL COMPLY WITHFIRESTOP SYSTEMS #W-L-1093 AND ALL RELEVANT ASSEMBLY PENETRATION CODES.
27. SLEEVES SHALL BE PROVIDED TO PROTECT ALL PIPING THROUGH CONCRETE OR MASONRY EXTERIOR OR BRG. WALLS. SLEEVES SHALL BE SIZED SO THERE IS A MINIMUM OF 1/2" CLEAR. AROUND THE PIPE AND/OR INSUL. IN EXTERIOR WALLS, ANNULAR SPACE BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR TIGHTLY CAULKED WITH COAL TAR, ASPHALTUM COMPOUND OR OTHER MATERIAL FOUND EQUAL EFFECTIVE.
28. ALL BUILDING WATER SUPPLY SYSTEMS IN WHICH QUICK-ACTING VALVES ARE INSTALLED SHALL BE PROVIDED WITH DEVICES TO ABSORB HIGH PRESSURES RESULTING FROM THE QUICK CLOSING OF THESE VALVES. (CLOSTHES WASHERS AND DISHWASHERS.)
29. COORDINATE ALL NEW UNDERSLAB PIPING WITH ALL NEW AND EXISTING STRUCTURAL FOOTER/FOOTER PAD LOCATIONS.
30. THIS CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH ALL OTHER TRADES AS REQUIRED FOR A COMPLETE AND OPERABLE PLUMBING SYSTEM.
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32. CONTRACTOR TO REFERENCE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING. COORDINATE WITH GENERAL TRADES.
33. ALL SEWER LINES SHALL BE PITCHED A MINIMUM OF 1/8" PER FT. IN THE DIRECTION OF FLOW.
34. COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS.
35. PROVIDE PVC SLEEVES OVER UNDERSLAB PEX TUBING AT ALL EXPANSION JOINTS. TAPE ENDS OF SLEEVES TO PREVENT CONCRETE INTRUSION.

SYMBOLS LEGEND

- 1 DEMOLITION NOTE
- 1 PLAN NOTE
- 1 REVISION NOTE
- D.S. DOWNSPOUT LOCATION

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ARCHITECT
H. Doug Bruce

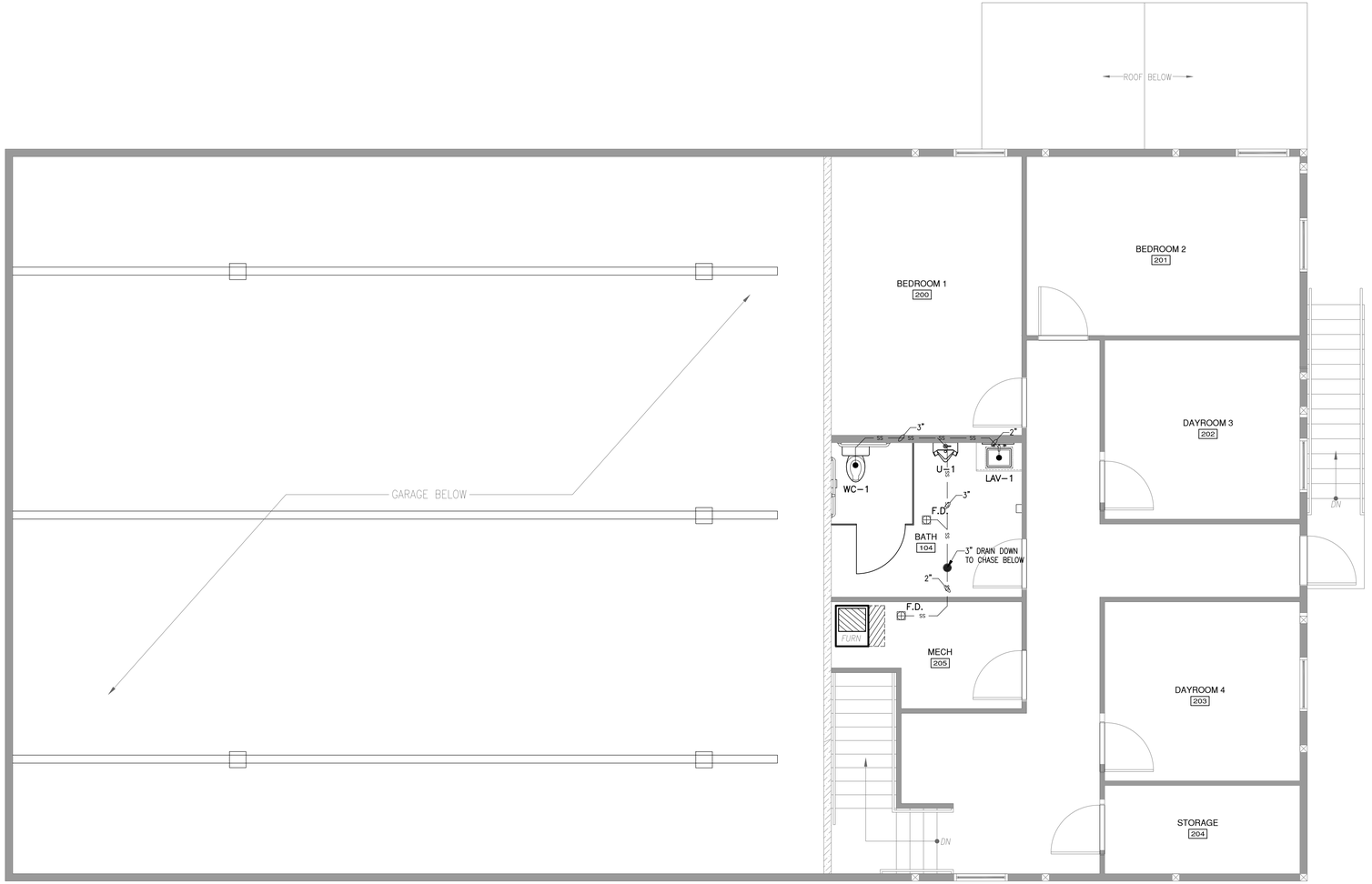
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	B. CASEY
CHECKED BY	D. BRUCE

SHEET NAME

FIRST FLOOR PLUMBING WASTE PLAN

SHEET NO.

PL101



1 SECOND FLOOR PLUMBING WASTE PLAN

1/4" = 1'-0"

PLUMBING WASTE PLAN KEYNOTES:

1. PROVIDE TRENCH DRAIN AS NDS DURA SLOPE DS-097 WITH LOAD RATING FOR CLASS D HEAVY DUTY TRAFFIC, OR APPROVED EQUAL. PROVIDE DS-232 GRATES AND DS-200 CAST IRON FRAMES, OR AS RECOMMENDED BY TRENCH DRAIN SUPPLIER.
2. LOCATE NEW CLEAN OUT 5'-0" AWAY FROM BUILDING.
3. PROVIDE STAINLESS STEEL ACCESS PANEL INTO CHASE

GENERAL PLUMBING NOTES:

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PLUMBING PLAN NOTES:

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35. PROVIDE PVC SLEEVES OVER UNDERSLAB PEX TUBING AT ALL EXPANSION JOINTS. TAPE ENDS OF SLEEVES TO PREVENT CONCRETE INTRUSION.

SYMBOLS LEGEND

1 DEMOLITION NOTE	1 PLAN NOTE
1 REVISION NOTE	D.S. DOWNSPOUT LOCATION

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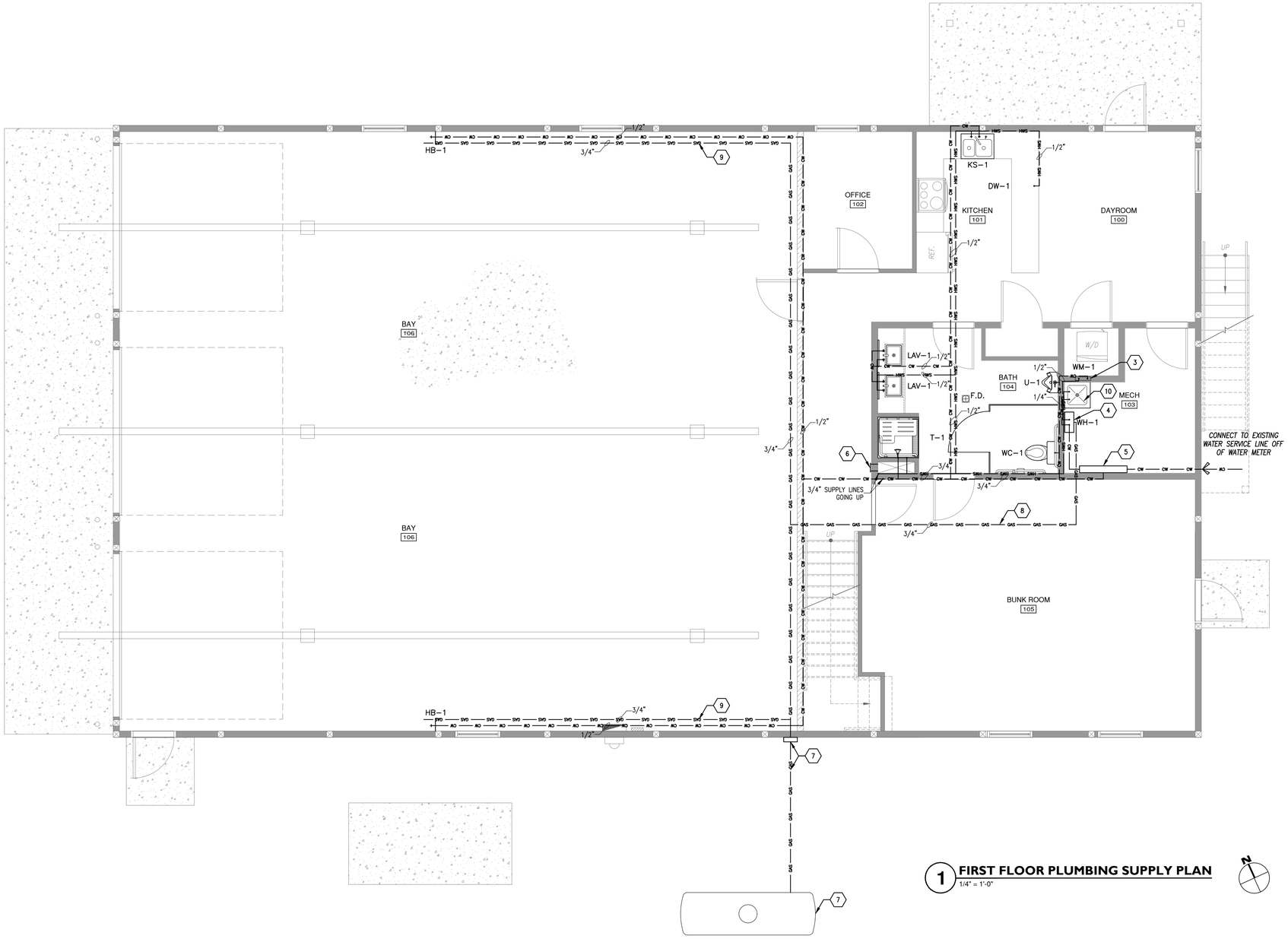
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	B. CASEY
CHECKED BY	D. BRUCE

SHEET NAME
SECOND FLOOR PLUMBING WASTE PLAN

SHEET NO.
PL102



1 FIRST FLOOR PLUMBING SUPPLY PLAN

1/4" = 1'-0"

NOTE:
PRESSURE TEST ALL UNDERSLAB PEX TUBING BASED ON TUBING SIZE PER MANUFACTURERS RECOMMENDATION PRIOR TO POURING CONCRETE SLAB.

ALTERNATE NOTE:
ALL WATER PIPING INSTALLED UNDER SLAB SHALL BE RUN THROUGH HDPE SHEATHING FOR PROTECTION DURING CONSTRUCTION.

PLUMBING SUPPLY PLAN KEYNOTES:

1. CONTRACTOR TO STUB OUT 1" WATER SERVICE LINES WALL AND CAP.
2. CONTRACTOR TO STUB OUT 1" WATER SERVICE LINE 5'-0" OUTSIDE MECHANICAL ROOM EXTERIOR WALL. WASHINGTON TOWNSHIP WILL RUN THE NEW WATER SERVICE LINE FROM WATER METER AND CONNECT TO THIS STUB.
3. WASHER/ DRYER HOOKUP CONNECTION.
4. PROVIDE WALL MOUNTED PROPANE INSTANTANEOUS TANKLESS WATER HEATER SIZED FOR 6-7 GPM FLOW RATE AT 60° RISE. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ELECTRIC CONNECTION AS REQUIRED.
5. APPROXIMATE LOCATION OF WATTS LF909 SERIES BACKFLOW PREVENTER. COORDINATE LOCATION W/ OWNER PRIOR TO CONSTRUCTION.
6. PROVIDE STAINLESS STEEL ACCESS PANEL INTO CHASE
7. NEW PROPANE TANK, REGULATOR AND PIPING TO BUILDING BY OTHERS. ENSURE PROPANE SYSTEM IS INSTALLED TO MEET NFPA 58.
8. PROVIDE 1" DIAMETER GALVANIZED GAS PIPING TO NEW FURNACE.
9. PROVIDE 3/4" DIAMETER GALVANIZED GAS PIPING TO WATER HEATER.
10. FLOOR MOUNTED MOP SINK.

GENERAL PLUMBING NOTES:

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- PROVIDE WATER HAMMER ARRESTERS ON ALL QUICK-CLOSING VALVES PER THE PROJECT SPECIFICATIONS AND THE PDI WH-201 GUIDELINES.

PLUMBING PLAN NOTES:

1. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS. ANY DEVIATION FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER REPRESENTATIVE OR DESIGN ENGINEER. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. HOWEVER, ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THESE DESIGN PLANS SHALL NOT BE ALLOWED WITHO INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THESE DESIGN PLANS SHALL NOT BE ALLOWED WITHO APPROVAL BY THE OWNER REPRESENTATIVE OR THE DESIGN ENGINEER.
2. INSTALL ALL THREADED CLEAN OUT PLUGS WITH PIPE DOPE TO ALLOW EASY REMOVAL IN THE FUTURE.
3. IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED UNDER PLUMBING CONTRACT WILL FIT THE SPACE AVAILABLE. PLUMBING CONTRACT WILL FIT THE SPACE AVAILABLE. PLUMBING CONTRACTOR SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
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9. ALL INDIRECT WASTE LINES SHALL HAVE A MINIMUM OF 2" VERTICAL AIR GAP WHERE IT TERMINATES AT FLOOR SINK, FLOOR DRAIN OR OPEN HUB DRAIN.
10. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL PRIME CONTRACTORS PRIOR TO INSTALLATION OF HIS WORK.
11. ALL WATER PIPING TO BE CROSS-LINKED POLYETHYLENE (PEX) PIPING IN SIZES AS SHOWN ON DRAWINGS. PROVIDE BRASS PEX CRIMP FITTINGS MANUFACTURED TO ASTM F1807 STANDARD, OR POLY ALLOY PEX CRIMP FITTINGS MANUFACTURED TO ASTM F2159 STANDARD. PUSH FITTINGS (PUSH-FIT, PUSH-TO-CONNECT) ARE NOT ALLOWED.
12. SET TOP RIM OF ALL FLOOR SINKS, FLOOR DRAINS, AND TRENCH DRAINS FLUSH WITH FINISHED FLOOR
13. FLOOR DRAINS AS JOSAM, JR SMITH OF EQUAL AND SHALL INCLUDE INTEGRAL CLEAN OUT.
14. CLEAN OUTS SHALL BE FLUSH WITH FINISHED FLOOR OR FINISHED WALL AND INCLUDE BRASS THREADED CAP.
15. MINIMUM SIZE FOR UNDERGROUND SANITARY PIPE IS 2".
16. PROVIDE RELIEF VENTING AS REQUIRED.
17. INSURE THAT ROOF VENT IS A MINIMUM OF 12" ABOVE ROOF PENETRATION.
18. PROVIDE A 4" MINIMUM CLEAN OUT, NO LESS THAN 100 FEET APART, IN THE MAIN BUILDING SANITARY DRAIN.
19. FOR UNDERSLAB PIPING, WHERE PIPING PENETRATES SLAB, PROVIDE NONMETALLIC SLEEVE.
20. ALL LINES SHALL BE SQUARE AND PLUMB WITH THE BUILDING
21. ALL DROPS TO FIXTURES SHALL BE 1/2" MINIMUM U.N.O.
22. INSULATE ALL HOT AND COLD WATER LINES, WITH 1/2" AEROTUBE (ARMAFLEX.)
23. PROVIDE TEMPERING VALVE AT WATER HEATER TO LIMIT LAV. WATER TEMPERATURE TO 110 DEGREES.
24. PROVIDE LINE SIZE SHUT-OFF AT ALL EQUIPMENT LOCATIONS.
25. PROVIDE DIELECTRIC CONNECTIONS AT ALL LOCATIONS. WITH FERROUS MATERIALS.
26. WALL ASSEMBLY PENETRATIONS SHALL COMPLY WITHFIRESTOP SYSTEMS #W-L-1093 AND ALL RELEVANT ASSEMBLY PENETRATION CODES.
27. SLEEVES SHALL BE PROVIDED TO PROTECT ALL PIPING THROUGH CONCRETE OR MASONRY EXTERIOR OR BRG. WALLS. SLEEVES SHALL BE SIZED SO THERE IS A MINIMUM OF 1/2" CLEAR. AROUND THE PIPE AND/OR INSUL. IN EXTERIOR WALLS, ANNULAR SPACE BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR TIGHTLY CAULKED WITH COAL TAR, ASPHALTUM COMPOUND OR OTHER MATERIAL FOUND EQUAL EFFECTIVE.
28. ALL BUILDING WATER SUPPLY SYSTEMS IN WHICH QUICK-ACTING VALVES ARE INSTALLED SHALL BE PROVIDED WITH DEVICES TO ABSORB HIGH PRESSURES RESULTING FROM THE QUICK CLOSING OF THESE VALVES. (CLOSTHES WASHERS AND DISHWASHERS.)
29. COORDINATE ALL NEW UNDERSLAB PIPING WITH ALL NEW AND EXISTING STRUCTURAL FOOTER/FOOTER PAD LOCATIONS.
30. THIS CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH ALL OTHER TRADES AS REQUIRED FOR A COMPLETE AND OPERABLE PLUMBING SYSTEM.
31. ALL INTERIOR HORIZONTAL STORM AND SANITARY PIPING SHALL BE INSTALLED AT THE MINIMUM SLOPES AS REQUIRED BY INDIANA PLUMBING CODE, U.N.O.
32. CONTRACTOR TO REFERENCE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING. COORDINATE WITH GENERAL TRADES.
33. ALL SEWER LINES SHALL BE PITCHED A MINIMUM OF 1/8" PER FT. IN THE DIRECTION OF FLOW.
34. COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS.
35. PROVIDE PVC SLEEVES OVER UNDERSLAB PEX TUBING AT ALL EXPANSION JOINTS. TAPE ENDS OF SLEEVES TO PREVENT CONCRETE INTRUSION.

SYMBOLS LEGEND

- 1 DEMOLITION NOTE
- 1 PLAN NOTE
- 1 REVISION NOTE
- D.S. DOWNSPOUT LOCATION

TABOR BRUCE
ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

REVISIONS

A NEW FIRE STATION FOR:

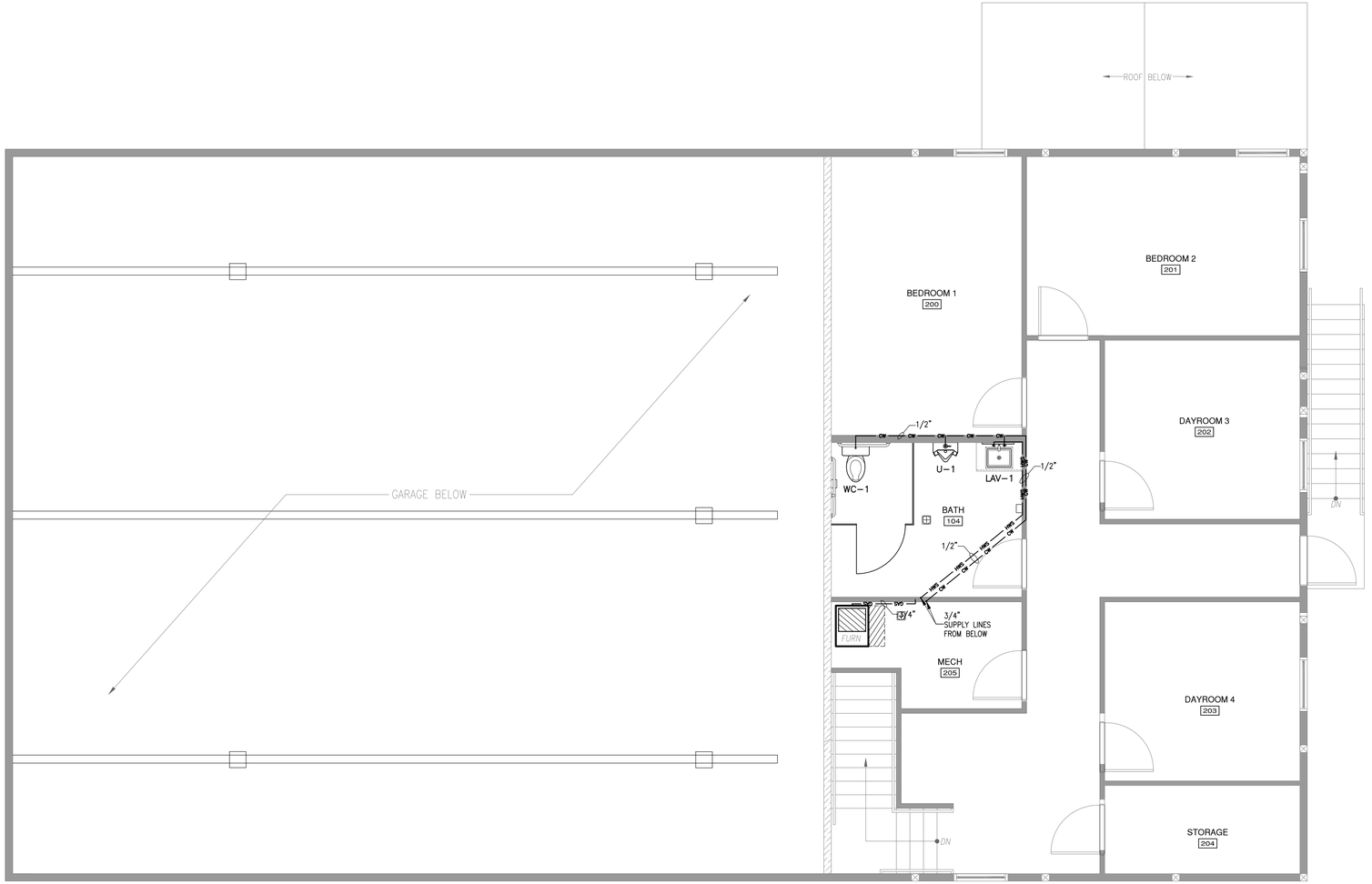
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
D. Bruce

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	B. CASEY
CHECKED BY	D. BRUCE

SHEET NAME
FIRST FLOOR PLUMBING SUPPLY PLAN

SHEET NO.
PL103



1 SECOND FLOOR PLUMBING SUPPLY PLAN

1/4" = 1'-0"

NOTE:
PRESSURE TEST ALL UNDERSLAB PEX TUBING BASED ON TUBING SIZE PER MANUFACTURERS RECOMMENDATION PRIOR TO POURING CONCRETE SLAB.

ALTERNATE NOTE:
ALL WATER PIPING INSTALLED UNDER SLAB SHALL BE RUN THROUGH HDPE SHEATHING FOR PROTECTION DURING CONSTRUCTION.

PLUMBING SUPPLY PLAN KEYNOTES:

1. CONTRACTOR TO STUB OUT 1" WATER SERVICE LINES WALL AND CAP.
2. CONTRACTOR TO STUB OUT 1" WATER SERVICE LINE 5'-0" OUTSIDE MECHANICAL ROOM EXTERIOR WALL. WASHINGTON TOWNSHIP WILL RUN THE NEW WATER SERVICE LINE FROM WATER METER AND CONNECT TO THIS STUB.
3. WASHER/ DRYER HOOKUP CONNECTION.
4. PROVIDE WALL MOUNTED PROPANE INSTANTANEOUS TANKLESS WATER HEATER SIZED FOR 6-7 GPM FLOW RATE AT 60° RISE. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ELECTRIC CONNECTION AS REQUIRED.
5. APPROXIMATE LOCATION OF WATTS LF909 SERIES BACKFLOW PREVENTER. COORDINATE LOCATION W/ OWNER PRIOR TO CONSTRUCTION.
6. PROVIDE STAINLESS STEEL ACCESS PANEL INTO CHASE
7. NEW PROPANE TANK, REGULATOR AND PIPING TO BUILDING BY OTHERS. ENSURE PROPANE SYSTEM IS INSTALLED TO MEET NFPA 58.
8. PROVIDE 1" DIAMETER GALVANIZED GAS PIPING TO NEW FURNACE.
9. PROVIDE 3/4" DIAMETER GALVANIZED GAS PIPING TO WATER HEATER.

GENERAL PLUMBING NOTES:

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SYMBOLS LEGEND

1 DEMOLITION NOTE	1 PLAN NOTE
1 REVISION NOTE	D.S. DOWNSPOUT LOCATION

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REVISIONS

A NEW FIRE STATION FOR:

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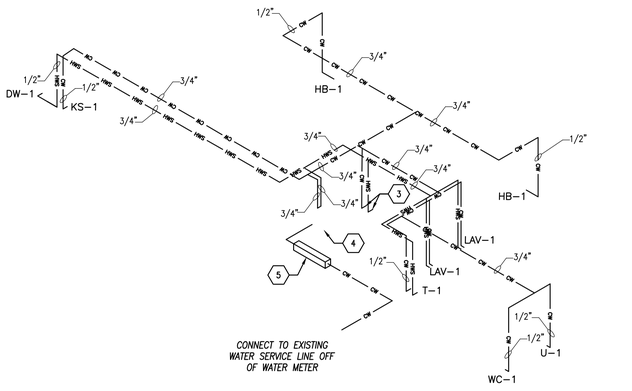
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	B. CASEY
CHECKED BY	D. BRUCE

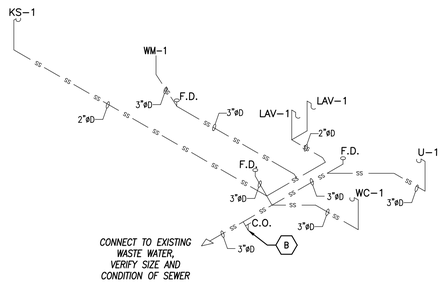
SHEET NAME
SECOND FLOOR PLUMBING SUPPLY PLAN

SHEET NO.
PL104



PLUMBING SUPPLY RISER DIAGRAMS

NOT TO SCALE



PLUMBING WASTE RISER DIAGRAMS

NOT TO SCALE

PLUMBING WASTE PLAN KEYNOTES:

- (A) NEW TRENCH DRAIN.
- (B) LOCATE NEW CLEAN OUT 5'-0" AWAY FROM BUILDING.

PLUMBING SUPPLY PLAN KEYNOTES:

- (1) CONTRACTOR TO STUB OUT 1" WATER SERVICE LINES WALL AND CAP.
- (2) CONTRACTOR TO STUB OUT 1" WATER SERVICE LINE 5'-0" OUTSIDE MECHANICAL ROOM EXTERIOR WALL. WASHINGTON TOWNSHIP WILL RUN THE NEW WATER SERVICE LINE FROM WATER METER AND CONNECT TO THIS STUB.
- (3) WASHER/ DRYER HOOKUP CONNECTION.
- (4) PROVIDE WALL MOUNTED PROPANE INSTANTANEOUS TANKLESS WATER HEATER SIZED FOR 6-7 GPM FLOW RATE AT 60° RISE.
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25. PROVIDE DIELECTRIC CONNECTIONS AT ALL LOCATIONS. WITH FERROUS MATERIALS.
26. WALL ASSEMBLY PENETRATIONS SHALL COMPLY WITHFIRESTOP SYSTEMS #W-L-1093 AND ALL RELEVANT ASSEMBLY PENETRATION CODES.
27. SLEEVES SHALL BE PROVIDED TO PROTECT ALL PIPING THROUGH CONCRETE OR MASONRY EXTERIOR OR BRG. WALLS. SLEEVES SHALL BE SIZED SO THERE IS A MINIMUM OF 1/2" CLEAR. AROUND THE PIPE AND/OR INSUL. IN EXTERIOR WALLS, ANNULAR SPACE BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR TIGHTLY CAULKED WITH COAL TAR, ASPHALTUM COMPOUND OR OTHER MATERIAL FOUND EQUAL EFFECTIVE.
28. ALL BUILDING WATER SUPPLY SYSTEMS IN WHICH QUICK-ACTING VALVES ARE INSTALLED SHALL BE PROVIDED WITH DEVICES TO ABSORB HIGH PRESSURES RESULTING FROM THE QUICK CLOSING OF THESE VALVES. (CLOSTHES WASHERS AND DISHWASHERS.)
29. COORDINATE ALL NEW UNDERSLAB PIPING WITH ALL NEW AND EXISTING STRUCTURAL FOOTER/FOOTER PAD LOCATIONS.
30. THIS CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH ALL OTHER TRADES AS REQUIRED FOR A COMPLETE AND OPERABLE PLUMBING SYSTEM.
31. ALL INTERIOR HORIZONTAL STORM AND SANITARY PIPING SHALL BE INSTALLED AT THE MINIMUM SLOPES AS REQUIRED BY INDIANA PLUMBING CODE, U.N.O.
32. CONTRACTOR TO REFERENCE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING. COORDINATE WITH GENERAL TRADES.
33. ALL SEWER LINES SHALL BE PITCHED A MINIMUM OF 1/8" PER FT. IN THE DIRECTION OF FLOW.
34. COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS.
35. PROVIDE PVC SLEEVES OVER UNDERSLAB PEX TUBING AT ALL EXPANSION JOINTS. TAPE ENDS OF SLEEVES TO PREVENT CONCRETE INTRUSION.

SYMBOLS LEGEND

- [1] DEMOLITION NOTE
- (1) PLAN NOTE
- 1 REVISION NOTE
- D.S. DOWNSPOUT LOCATION

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REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME

PLUMBING RISER DIAGRAMS

SHEET NO.

PL105

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MECHANICAL ABBREVIATIONS

A	AIR
AA	ANODIZED ALUMINUM
AC	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCH	AIR COOLED CONDENSING UNIT
ADD	ADDITION
AD	ACCESS DOOR
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMB	AMBIENT
A/P	ACCESS PANEL
AP	ACID PROOF
APLV	APPLICATION PART LOAD VALUE
APROX	APPROXIMATE
ARV	AIR RELIEF VENT
AUTO	AUTOMATIC
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
BDD	BACKDRAFT DAMPER
BFW	BOILER FEED WATER
BLDG	BUILDING
BO	BLOW-OFF
BSMT	BASEMENT
BT	BATH TUB
BTM	BOTTOM
BTUH	BRITISH THERMAL UNIT / HOUR
CAP	CAPACITY
CB	CATCH BASIN
CC	CABINET CONVECTOR
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	COOLING
CLSK	CLINICAL SERVICE SINK
CO	CLEANOUT
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CONDENSATE PUMP
COP	COEFFICIENT OF PERFORMANCE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
C.S.	CABINET SINK
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	COLD WATER
db	DECIBELS
DB	DRY BULB (TEMPERATURE)
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DISCH	DISCHARGE
DL	DOOR LOUVER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EA	EXHAUST AIR
ED	EQUIPMENT DRAIN
EDH	ELECTRIC DUCT AIR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
EMD	END OF MAIN DRIP (STEAM)
EMG	EXPANDED METAL GRILLE
ENCL	ENCLOSURE
ENT	ENTERING
EOM	END OF MAIN DRIP
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FACE AREA
FCU	FAN COIL UNIT
FC	FLEXIBLE CONNECTION
F/D	FIRE DAMPER
FD	FLOOR DRAIN
FH CAB	FIRE HOSE CABINET
FIN	FINISH
F	FIRE LINE
FLEX	FLEXIBLE
FLR	FLOOR
FOG	FUEL OIL GAUGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
FPB	FAN POWERED VAV BOX
F/SD	FIRE AND SMOKE DAMPER
FTR	FINNED TUBE RADIATION
FPM	FEET PER MINUTE
F&T	FLOAT & THERMOSTATIC (TRAP)
FURN	FURNACE
FV	FACE VELOCITY
G	GAS
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
HB	HOSE BIBB
HT	HEIGHT
HF	HEPA FILTER
HORIZ	HORIZONTAL
HP	HORSE POWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HRP	HYDRONIC RADIANT CEILING PANEL
HTG	HEATING
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HW	HOT WATER (DOMESTIC)
HWR	HOT WATER RETURN (HVAC)
HWS	HOT WATER SUPPLY (HVAC)
ICF	INLINE CENTRIFUGAL FAN
ID	INSIDE DIAMETER
INCIN	INCINERATOR
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JD	JANITORS DRAIN
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LC	LAVATORY IN CABINET
LF	LINEAR FEET
LOC	LOCATION
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU/HR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MF	MIXING FAUCET
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NEGATIVE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
ø	PHASE OR DIAMETER (DUCT)
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OFD	OVERFLOW ROOF DRAIN
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
P	PUMP
PA	PRIMARY AIR
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PE	PNEUMATIC ELECTRIC
PIV	POST INDICATOR VALVE
PREFAB	PREFABRICATED
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PTU	POWERED TERMINAL UNIT
PUH	PROPELLER UNIT HEATER
RA	RETURN AIR
RAD	RADIATION
RACP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECEIVER
RECIR	RECIRCULATING
RECT	RECTANGULAR
REG	REGISTER
REF	ROOF EXHAUST FAN
REINF	REINFORCED
REL	RELIEF
RET	RETURN
REQ'D	REQUIRED
R.H.	RODDING HOLE
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	ROOF VENT
S.A.	SOUND ATTENUATOR
SA	SUPPLY AIR
SAN	SANITARY
SC	SILL COCK
SCW	SOFT COLD WATER
S.D.	SHOWER DRAIN
SD	SMOKE DAMPER
SECT	SECTION
SH	SHOWER HEAD
SHT	SHEET
SK	SINK
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
ST	STORM
STAT	THERMOSTAT
STD	STANDARD
STM	STEAM
STR	STRUCTURAL
SUS	SUPPLY
SUSP	SUSPENDED
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TW	TEMPERED WATER
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UR	URINAL
UV	UNIT VENTILATOR
V	VENT
VA	VALVE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATOR
VSMC	VARIABLE SPEED MOTOR CONTROLLER
VT	VITRIFIED TILE
VTR	VENT THRU ROOF
W	WASTE
W	WITH
WB	WET BULB (TEMPERATURE)
WC	WATER CLOSET
WEF	WALL EXHAUST FAN
WFR	WALL FIN RADIATION
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT
WTR	WATER

PIPING SYMBOLS

	DOMESTIC COLD WATER
HWS	DOMESTIC HOT WATER
FS	FIRE SUPPRESSION
GAS	NATURAL GAS SERVICE
SS	SANITARY SEWER
SD	STORM DRAIN
	VENT
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	CAPPED PIPE OR TEE
	FLOW IN DIRECTION OF ARROW
	WATER HAMMER ARRESTER
	SHUTOFF VALVE
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE
	THERMOMETER
	UNION (DIELECTRIC OR AS NOTED)
	TEMPERATURE & PRESSURE RELIEF VALVE
C.O.	FLOOR/GRADE CLEAN-OUT
F.D.	FLOOR DRAIN
	HOSE BIBB
RD RDO	ROOF DRAIN/OVERFLOW

MECHANICAL SYMBOLS

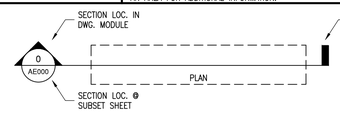
	MECHANICAL EQUIPMENT	300	SQUARE DIFFUSER (TYPE & AIR QUANTITY IN CFM INDICATED)
	SUPPLY AIR DUCT UP	600	ROUND DIFFUSER (TYPE & AIR QUANTITY IN CFM INDICATED)
	SUPPLY AIR DUCT DOWN	400	SUPPLY OUTLET (NOMINAL SIZE, TYPE, & AIR QUANTITY IN CFM INDICATED)
	RETURN/EXHAUST AIR DUCT UP	400	EXHAUST OR RETURN INLET (NOMINAL SIZE, TYPE, & AIR QUANTITY IN CFM INDICATED)
	RETURN/EXHAUST AIR DUCT DOWN	400 (+12")	ALL UNITS LOCATED IN OR NEAR CEILING, UNLESS DIMENSION SHOWN INDICATING (HEIGHT A.F.F.)
10X8	RECTANGULAR DUCT SIZE (FIRST DIMENSION LISTED IS DIMENSION SHOWN IN VIEW)	UC 1/2" 100	DOOR, UNDERCUT (SIZE & AIR QUANTITY IN CFM INDICATED)
10"ø	ROUND DUCT SIZE	DG 1 600	DOOR GRILLE (FREE AREA REQUIRED & AIR QUANTITY IN CFM INDICATED)
	AIR DIVERTER (EXTRACTOR)		
VD	VOLUME DAMPER		
BDD	BACK DRAFT DAMPER		
		T	THERMOSTAT
	TURNING VANES		SUPPLY AIR DIRECTION
			RETURN, EXHAUST, OR RELIEF AIR DIRECTION
	MANUAL SPLITTER DAMPER	SACD	SUPPLY AIR CEILING DIFFUSER
		SAWD	SUPPLY AIR WALL DIFFUSER
	FLEXIBLE CONNECTION	RACG	RETURN AIR CEILING GRILLE
		RAWG	RETURN AIR WALL GRILLE

GENERAL MECHANICAL NOTES:

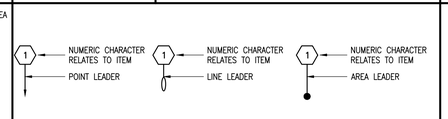
1. THESE NOTES APPLY TO ALL MECHANICAL SHEETS.
2. ALL MECHANICAL WORK IS TO BE IN ACCORDANCE W/ THE INDIANA MECHANICAL CODE, 1997 EDITION (IMC, 1996 EDITION) (675 IAC 18-1.3) EFFECTIVE 1/23/98 – REPEALED 5/21/03.
3. HVAC SUBCONTRACTOR SHALL COORDINATE W/ THE ELECTRICAL SUBCONTRACTOR FOR ANY & ALL ELECTRICAL REQUIREMENTS OF ACTUAL MECHANICAL EQUIPMENT UTILIZED, INCLUDING LOW & HIGH VOLTAGE WIRING, DISCONNECTS, CIRCUIT BREAKERS, ETC.
4. HVAC SUBCONTRACTOR SHALL COORDINATE W/ GENERAL CONTRACTOR FOR ALL REQUIREMENTS OF SIZE, LOC., SCHEDULES, ETC., OF ALL THRU-ROOF & WALL PENETRATIONS REQ'D. FOR INSTALLATION OF ALL MECHANICAL SYSTEMS & DUCTWORK.
5. ALL SUPPLY & RETURN DUCTWORK SHALL BE GALV. STL. SIZED AS INDICATED, CONSTRUCTED & INSTALLED IN ACCORDANCE W/ THE LATEST EDITION OF SMACNA STANDARDS FOR HVAC & DUCTWORK CONSTRUCTION. ALL SUPPLY AIR DUCTS SHALL HAVE 1/2" INSULATIVE DUCT LINERS. DUCT SIZES INDICATED ON PLANS ARE IN INCH DIMENSIONS EXCLUSIVE OF LINER.
6. ALL REGISTERS & GRILLS SHALL BE HART & COOLEY & SIZED AS REQ'D. FOR CFM NOTED @ 500 FPM MAX. FACE VELOCITY. ALL REGISTERS SHALL HAVE REGULATING DAMPERS.
7. EXTEND PVC CONDENSATE DRAIN TO 2" STANDPIPE, COORDINATE W/ PLUMBING CONTRACTOR.
8. PROVIDE ALL CONTROL & INTERLOCK WIRING COMPLETE FOR THIS PROJECT.
9. COORDINATE INSTALLATION OF WORK W/ ALL OTHER TRADES & CONDITIONS AS REQ'D. FOR A COMPLETE & OPERABLE HVAC SYSTEM. CLEARANCES ABOVE CEILINGS ARE EXTREMELY TIGHT IN CERTAIN AREAS.
10. COORDINATE ALL OPENINGS THROUGH NEW WALL & FLR. CONSTRUCTION W/ GENERAL TRADES.
11. REVIEW RETURN AIR PATH BACK TO ALL HVAC EQUIPMENT. PROVIDE RETURN AIR OPENINGS AND/OR TRANSFER DUCTS IN WALLS ABOVE THE CEILING WHERE REQUIRED. COORDINATE WITH GENERAL TRADES. VELOCITY THRU R.A. OPENINGS SHALL NOT EXCEED 500 FPM. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL EXTENDING TO DECK.
12. COORDINATE EXACT LOC. OF ALL EQUIP. & DUCTWORK W/ THE CLG. SYSTEM & LIGHT FIXTURES. REF. REFLECTED CLG. PLANS & ELECTRICAL LIGHTING PLANS.
13. COORDINATE ROUTING OF DUCTWORK, PIPING & EQUIPMENT W/ ALL OTHER TRADES.
14. PROVIDE 45'/90' FITTING W/ VOLUME DAMPER LIKE FLEXMASTER MODEL STO @ ALL SUPPLY AIR BRANCH DUCTWORK TAKEOFFS.
15. COORDINATE LOC'S. OF ALL GRILLES, REGISTERS & DIFFUSERS IN CEILINGS W/ THE CLG. SYSTEM AND LIGHT FIXTURES. REF. REFLECTED CLG. PLANS & ELECTRICAL LIGHTING PLANS. PROVIDE FLEXIBLE DUCT UPSTREAM OF EA. DIFFUSER WHERE SHOWN.
16. PROVIDE VOLUME DAMPERS IN ALL SUPPLY AIR BRANCH DUCTWORK AS REQ'D. TO BALANCE EA. SYSTEM & LIGHT FIXTURES. REF. REFLECTED CLG. PLANS & ELECTRICAL LIGHTING PLANS. PROVIDE FLEXIBLE DUCT UPSTREAM OF EA. DIFFUSER WHERE SHOWN.
17. ROUND DUCT SIZE TO BE THE SAME SIZE AS THE DIFFUSER INLET NECK, U.N.O.
18. MAX. LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5'-0".
19. ALL FURNACE SYSTEM LOW PRESSURE RECTANGULAR SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY INSUL. ROUND SUPPLY & RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSUL. OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSUL. SEE SPECS FOR ADDT'L INSUL. REQUIREMENTS.
20. BOX AROUND DUCT SIZE INDICATES INTERNALLY LINED DUCTWORK. SIZE SHOWN INDICATES ACTUAL FREE AREA. REF. MECHANICAL SPECS.
21. TRANSFER AIR DUCTS SHALL BE INTERNALLY LINED W/ INSUL. TO DETER NOISE TRANSFER. SIZE SHOWN ON PLAN INDICATES ACTUAL FREE SPACE.
22. SQUARE DIFFUSERS ARE 4-WAY BLOW U.N.O..
23. WIRING TO THERMOSTATS SHALL BE CONCEALED WITHIN THE WALL.
24. DUCTWORK SHALL BE LOC. IN THE CLG. PLENUM (ABOVE LAY-IN CEILING U.N.O.
25. COORDINATE ALL DUCTWORK ROUTING & DUCTWORK ELEVATIONS W/ STRUCTURAL SUPPORTS FOR PARTITION WALLS. REF. STRUCTURAL DRAWINGS FOR SIZE & LOC'S. OF PARTITION WALL SUPPORTS.

MECHANICAL REFERENCE SYMBOLS

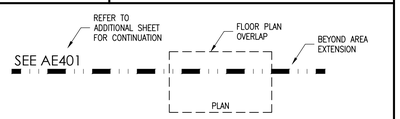
SECTION INDICATOR: REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION.



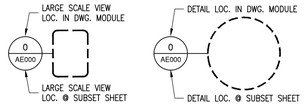
KEYNOTE INDICATORS: REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION.



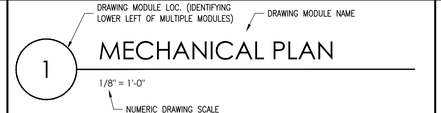
MATCH LINE INDICATOR: REFERENCE SHEET LOCATION FOR ADDITIONAL INFORMATION.



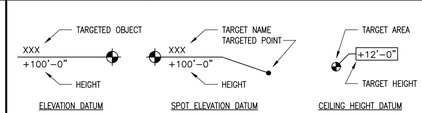
SECTION INDICATOR: REFERENCE DETAIL LOCATION FOR ADDITIONAL INFORMATION.



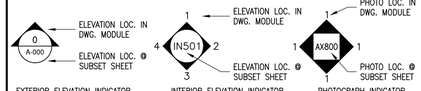
DRAWING BLOCK TITLE INDICATOR: REFERENCE DRAWING MODULE LOCATION FOR ADDITIONAL INFORMATION.



DATUM INDICATORS: REFERENCE BUILDING PLANS FOR ADDITIONAL INFORMATION.



ELEVATION INDICATOR: REFERENCE ELEVATION LOCATION FOR ADDITIONAL INFORMATION.



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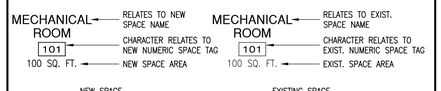
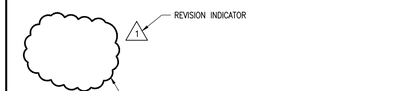


REVISION INDICATOR: REFERENCE TITLE BLOCK LOCATION FOR ADDITIONAL INFORMATION.



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REVISIONS

A NEW FIRE STATION FOR:

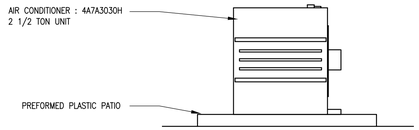
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

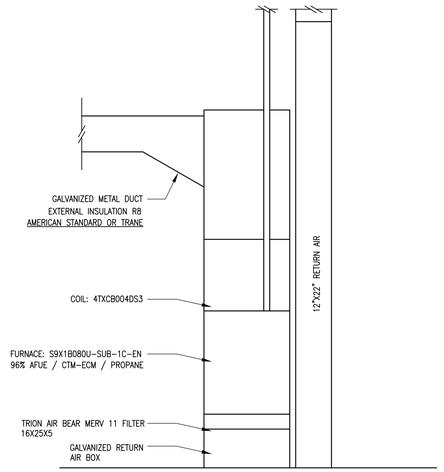
HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H. Doug Bruce

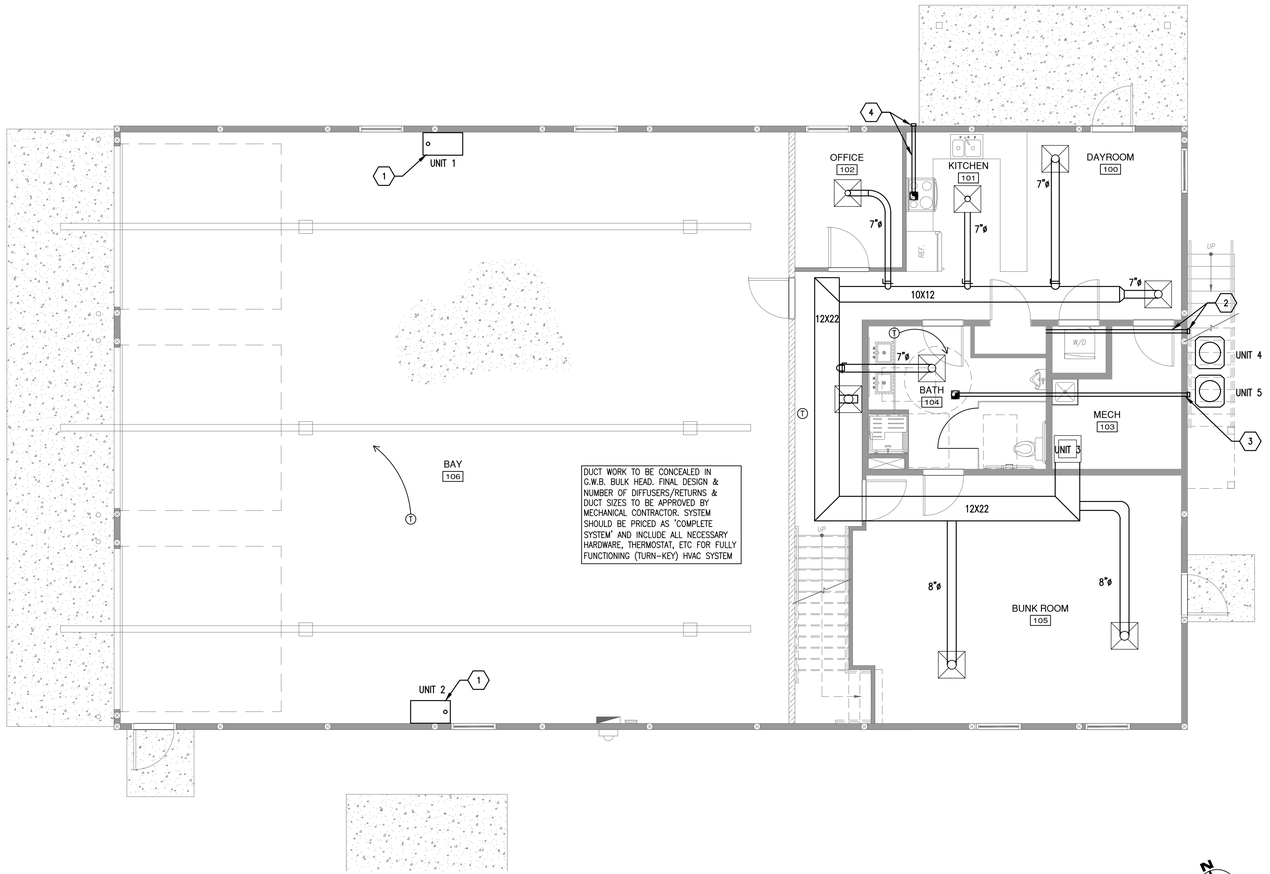
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	
CHECKED BY	D. BRUCE

SHEET NAME
MECHANICAL SYMBOLS & ABBREVIATIONS

SHEET NO.
MH001







1 **1ST FLOOR PLAN MECHANICAL PLAN**
3/16" = 1'-0"

MECHANICAL PLAN KEYNOTES:

1. 3" TYPE "B" GAS FLUE THROUGH ROOF. INSTALL PER MFG.'S INSTRUCTIONS & ALL APPLICABLE CODES.
2. RUN DRYER VENT TO EXTERIOR WALL USING 4" RIGID DRYER VENT PIPE WITH TAPED JOINTS. TERMINATE DUCTING IN A VENT BOOT WITH A 4" IMPERIAL PLASTIC LOUVERED DRYER VENT CAP WITH INSECT GUARD. MAX. LENGTH SHALL BE PER DRYER MFG.'S INSTRUCTIONS & LATEST I.M.C.
3. RUN BATHROOM EXHAUST VENT TO EXTERIOR WALL USING 4" PVC PIPE. TERMINATE DUCTING IN A VENT BOOT WITH A 4" IMPERIAL PLASTIC LOUVERED DRYER VENT CAP WITH INSECT GUARD. MAX. LENGTH SHALL BE PER EXHAUST VENT MFG.'S INSTRUCTIONS & LATEST I.M.C.
4. RUN KITCHEN HOOD EXHAUST VENT TO EXTERIOR WALL USING _____. TERMINATE DUCTING

MECHANICAL GENERAL NOTES:

ALL WORK TO COMPLY TO ALL NATIONAL, STATE AND LOCAL CODES

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL HVAC EQUIPMENT
MECHANICAL CONTRACTOR TO INSTALL CONDENSATE LINES & REFRIGERANT LINES
MECHANICAL CONTRACTOR TO RUN ALL 24V CONTROL CIRCUITS
PLUMBING CONTRACTOR TO INSTALL ALL GAS LINES

UNIT 1 + UNIT 2:
REZNOR F-165
165,000 BTU
PROPANE 4"ø 'B' VENT FLUE THROUGH THE ROOF
THERMOSTAT – HONEYWELL (ONE HEAT ONLY)

UNIT 3:
AMERICAN STANDARD (OR TRANE)
COIL – 4TXCB004DS3
FURNACE – S9X1B080U-SUB-1C-EN / 96% AFUE / CTM-ECM / PROPANE
VENTING – PER MANUFACTURES SPECIFICATIONS
FILTER – TRION AIR BEAR / 16x25x5 / MEDIA 11 FILTER
GALVANIZED RETURN AIR BOX
THERMOSTAT – HONEYWELL T4

UNIT 4:
4A7A3030H, 13 SEAR, 2-1/2 TON AIR CONDITIONER

SUPPLY AIR DIFFUSER:
24"X24" AFPD R8 W/ VOLUME DAMPER. AS.
HEART AND COOLEY. ALUMINUM.

RETURN AIR GRILLE:
ALUMINUM EGGCRATE 24X24. RESTI.

ALL DUCTWORK INSULATED EXTERIOR TO R.8 JOINTS W/ HARDCAST MASTIC SEALANT.

PROVIDE THE FOLLOWING:
BATH VENTING – BATH VENTING SHALL BE PVC PIPING INSULATED AND EXTENDED THRU THE ROOF, INSULATED.

ALL DUCTS RUN IN THE CEILING TO BE 26 GA GAL S.M.
NOTE DUCT DIMENSIONS GIVEN ARE OUTSIDE DIMENSIONS
FLEX DUCT TO HAVE VINYL BARRIER INTERIOR & EXTERIOR W/ 1" INSUL & WOUND WIRE SUPPORT. ALL JOINTS TO BE STRAPPED & SEALED W/ HARDCAST MASTIC SEALANT MIN. TAKE OFF 6" LENGTH.
ALL DUCT RUNS TO HAVE A QUARTER TURN DAMPER IN TAKE OFF OF SUPPLY DUCT.
ANY DUCT RUN IN NON CONDITIONED SPACE TO BE EXTERNALLY WRAPPED W/ 1" CLOSED CELL FOAM INSULATION & BE SEALED W/ HARDCAST SEALANT.

ALL EXHAUST FANS PROVIDED BY MECHANICAL CONTRACTOR
EXHAUST FANS TO BE VENTED SIDEWALLS
FANS RATED 75 CFM AT 1/4" SP
FANS TO HAVE BACKDRAFT DAMPER.

LEGEND

	MECHANICAL EQUIPMENT
	SUPPLY AIR CEILING DUCT
	RETURN AIR CEILING DUCT
	EXHAUST FAN, VENT TO EXT. THRU ROOF, INSULATED.
12X22	RECTANGULAR DUCT SIZE.
6"ø	ROUND DUCT SIZE.
T	THERMOSTAT

TABOR BRUCE ARCHITECTURE & DESIGN INC.
1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

REVISIONS

A NEW FIRE STATION FOR:

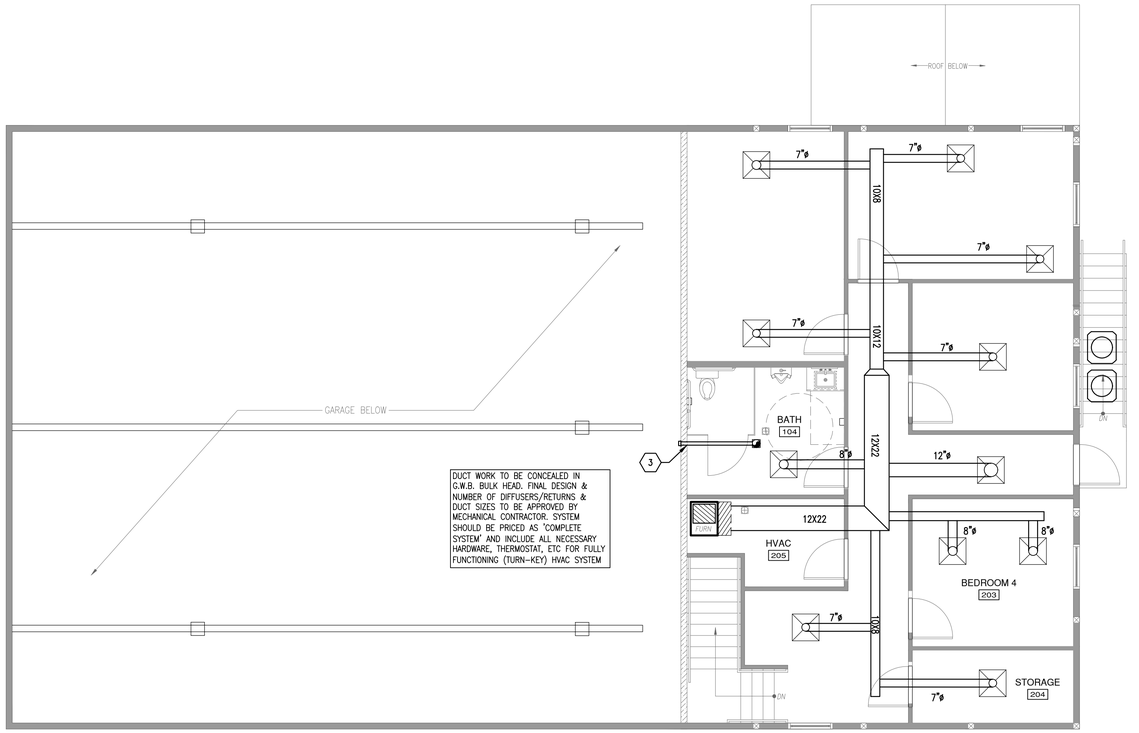
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
MECHANICAL PLAN

SHEET NO.
MH101



1 2ND FLOOR MECHANICAL PLAN
3/16" = 1'-0"

MECHANICAL PLAN KEYNOTES:

1. 3" TYPE "B" GAS FLUE THROUGH ROOF. INSTALL PER MFG.'S INSTRUCTIONS & ALL APPLICABLE CODES.
2. RUN DRYER VENT TO EXTERIOR WALL USING 4" RIGID DRYER VENT PIPE WITH TAPED JOINTS. TERMINATE DUCTING IN A VENT BOOT WITH A 4" IMPERIAL PLASTIC LOUVERED DRYER VENT CAP WITH INSECT GUARD. MAX. LENGTH SHALL BE PER DRYER MFG.'S INSTRUCTIONS & LATEST I.M.C.
3. RUN BATHROOM EXHAUST VENT TO EXTERIOR WALL USING 4" PVC PIPE. TERMINATE DUCTING IN A VENT BOOT WITH A 4" IMPERIAL PLASTIC LOUVERED DRYER VENT CAP WITH INSECT GUARD. MAX. LENGTH SHALL BE PER EXHAUST VENT MFG.'S INSTRUCTIONS & LATEST I.M.C.
4. RUN KITCHEN HOOD EXHAUST VENT TO EXTERIOR WALL USING _____. TERMINATE DUCTING

MECHANICAL GENERAL NOTES:

ALL WORK TO COMPLY TO ALL NATIONAL, STATE AND LOCAL CODES

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL HVAC EQUIPMENT
MECHANICAL CONTRACTOR TO INSTALL CONDENSATE LINES & REFRIGERANT LINES
MECHANICAL CONTRACTOR TO RUN ALL 24V CONTROL CIRCUITS
PLUMBING CONTRACTOR TO INSTALL ALL GAS LINES

UNIT 1 + UNIT 2:
REZNOR F-165
165,000 BTU
PROPANE 4"ø 'B' VENT FLUE THROUGH THE ROOF
THERMOSTAT – HONEYWELL (ONE HEAT ONLY)

UNIT 3:
AMERICAN STANDARD (OR TRANE)
COIL – 4TXCB004DS3
FURNACE – S9X1B080U-SUB-1C-EN / 96% AFUE / CTM-ECM / PROPANE
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A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H Doug Bruce

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
MECHANICAL PLAN

SHEET NO.
MH102

PLUMBING FIXTURE SCHEDULE

MARK NO.		LAV–1	MB–1	NFWH–1	KS–1	T–1	U–1	WC–1	WH–1	WM–1	HB–1	MB–1
DESCRIPTION		LAVATORY	MOP BASIN	WALL HYDRANT	KITCHEN SINK	SHOWER	URINAL	WATER CLOSET	WATER HEATER	WASHER BOX	HOSE BIB	MOP BASIN
MANUFACTURER		KOHLER	MUSTEE	WOODFORD	ELKAY	SWAN	KOHLER	KOHLER	RINNAI	GUY GRAY	–	MUSTEE
MODEL NAME		MEMOIRS	–	–	GOURMET	VERITEK	DEXTER	PERSUADE	SENSEI	–	–	63 M
MODEL NUMBER		2337–1–0	63M	B65	CR3321	R–3636	K–5452–ER–0	K–7579–0	RU199	B200	–	–
CONTROLS			–	–	AMERICAN STANDARD	DELTA CLASSIC	–	–	–		–	–
PIPE CONNECTION	HW	3/8"ø	1/2"ø	–	3/8"ø	1/2"ø	–	–	3/4"ø	1/2"ø	–	–
	CW	3/8"ø	1/2"ø	–	3/8"ø	1/2"ø	3/4"ø	3/8"ø	3/4"ø	1/2"ø	1/2"ø	1/2"ø
	WASTE	1 1/2"ø	3"ø	–	2"ø	2"ø	2"ø	3"ø	–	2"ø	–	–
	VENT	1 1/2"ø	1 1/2"ø	–	1 1/2"ø	1 1/2"ø	1 1/2"ø	2"ø	2"ø	2"ø	–	–
	TRAP	1 1/2"ø	3"ø	–	1 1/2"ø	2"ø	2"ø	3"ø	–	–	–	–
IMAGE												
SPEC. SECTION		–	–	–	–	–	–	–	–	–		
REMARKS		COLOR; WHITE DROP–IN, SINGLE HOLE, W/ GROHE 23577EN3 FAUCET (BRUSHED NICKEL)	FLOOR MOUNTED, MUSTEE SERVICE FAUCET 63.600A	RECESS MOUNTED, LOCKING COVER, 3/4" HOSE OUTLET W/ REMOVABLE TEE, SPOUT OUTLET VB W/ 3/4" INLET/OUTLET	20GA TYPE 304 SELF–RIMMING S.S. DBL BOWL (4 HOLE), AMERICAN STANDARD ADA HAMPTON 4771.732 CONTROLS	SW–7036 SHOWER WALL KIT, DELTA CLASSIC 132900 CONTROLS	COLOR; WHITE (ADA COMPLIANT IF RIM IS MOUNTED MAX 17" A.F.F.)	COLOR; WHITE PROVIDE SEAT AS KOHLER STONEWOOD, K–20466–0	WALL MOUNT MINI–TANK PROPANE WATER HEATER, MAX INPUT CAPACITY 199000 BTU, 6.4 GPM AT 60° RISE	WALL MTD. RECESSED BOX W/ FLANGE, CONTRACTOR TO SUPPLY HAMMER ARRESTORS AS REQ'D.	FREEZE PROOF, ANTI–SIPHON HOSE BIB. INSTALL AT 30" ABOVE FINISHED FLOOR	24"W X 24"L X 10"D MOP BASIN. FAUCET HARDWARE IS SPEAKMAN SC–5811–RCP

PIPING INSULATION SCHEDULE

SYSTEM		DOMESTIC HOT WATER & RETURN	DOMESTIC HOT WATER & RETURN, & TEMPERED	DOMESTIC COLD WATER & RETURN	HORIZ. STORM WATER (NOTE 3)
FLUID TEMP RANGE (F°)		131–160	100–130	40–75	40–75
INSULATION TYPE		MF	MF OR FE	MF OR FE	MF OR FE
JACKET TYPE		–	–	–	–
VAPOR BARRIER REQ'D.		–	–	YES	YES
INSUL. THICKNESS (INCHES)	RUNOUTS (NOTES 1 & 2)	0.5	0.5	–	–
	1" AND LESS	0.5	0.5	0.5	–
	1 1/4" – 2"	1.0	0.5	0.5	1.0
	2 1/2" – 4"	1.5	1.0	.75	1.0
	5" AND ABOVE	–	–	–	1.0

NOTES:

1. RUNOUTS NOT EXCEEDING 12 FEET IN LEGTH AND 2" PIPE TO INDIVDUAL HVAC UNITS.
2. RUNOUTS THAT ARE NOT LARGER THAN 1" AND NON–CIRCULATING TO INDIVIDUAL PLUMBING UNITS.
3. INCLUDES ROOF DRAIN BODY AND VERTICAL RUN UP TO THE ROOF DRAIN BODY.

INSULATION TYPES:

FE	FLEXIBLE ELASTOMERIC
CG	CELLULAR GLASS
MF	MINERAL FIBER (FIBERGLASS)
PO	POLYOLEFIN
CS	CALCIUM SILICATE
CCF	CLOSED–CELL FOAM

JACKET TYPES:

FP	FOIL & KRAFT PAPER
PVC	POLYVINYL CHLORIDE
AL	ALUMINUM
SS	STAINLESS STEEL

PLUMBING FIXTURE NOTES:

1. PROVIDE SHOWER CURTAIN ROD FOR EACH SHOWER UNIT AS DIRECTED BY OWNER.
2. PROVIDE ADA COMPLIANT WATER CLOSET IN ALL TOILET LOCATIONS IN THE FIRST FLOOR. REFER TO PLUMBING FIXTURE SCHEDULE.
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
4. ALL RESTROOM/BATHROOM ACCESSORIES ARE TO BE PROVIDED BY AND INSTALLED BY THE CONTRACTOR AND INCLUDE:
   A. ONE SURFACE MOUNTED MIRROR EACH OVER ALL LAVATORY SINKS.
   B. ONE TOILET PAPER HOLDER AT ALL TOILET LOCATIONS.
   C. GRAB BARS OVER TOILET.
8. PROVIDE INSULATION FOR ALL DOMESTIC WATER PIPING THROUGHOUT THE BUILDING AS ARMAFLEX BRAND PIPING INSULATION.
9. ALL FLR. DRAINS ARE TO BE METALLIC TYPE & INCLUDE AN INTEGRAL TRAP SEAL OR PRIMING DEVICE PER STATE OF INDIANA REQUIREMENTS, REF. MFG. IS TO BE JR SMITH, OR APPROVED EQ.

CLEAN-OUT SCHEDULE

MARK NO.	CO–F	CO–W	CO–E
BASE OF DESIGN	JR SMITH – 4020 SERIES	JR SMITH – 4532 SERIES	JR SMITH – 4263 SERIES
BODY MATERIAL	CAST IRON	CAST IRON	CAST IRON
OUTLET CONN.	SPIGOT	SPIGOT	SPIGOT
CLOSURE	BRONZE PLUG	BRONZE PLUG	BRONZE PLUG
COVER MATERIAL	NICKLE BRONZE	STAINLESS STEEL	CAST IRON
COVER FINISH	SATIN	POLISHED	SCORIATED
COVER SHAPE	ROUND	ROUND	ROUND
LOADING CLASS	MEDIUM DUTY	–	HEAVY DUTY
REMARKS	FINISHED FLOOR APPLICATION	FINISHED WALL APPLICATION	EXTERIOR APPLICATION

FLOOR DRAIN SCHEDULE

MARK	DESCRIPTION	DRAIN BODY			STRAINER			INTEGRAL TYPE	VANDAL PROOF	SEDIMENT BUCKET	FUNNEL	SPECIFICATION SECTION	MANUFACTURER WITH MODEL NUMBER	NOTES
		MATERIAL	OUTLET SIZE	OUTLET TYPE	MATERIAL	SIZE	TYPE							
FD–1	GENERAL USE IN FINISHED AREAS	CAST IRON	–	SPIGOT	NICKLE BRONZE	–	ROUND	YES	YES	NO	NO	22 13 16	J.R. SMITH #2041S–A	DEEP SEAL 'P'–TRAP WITH FLOOR CLEANOUT
FD–2	GENERAL USE IN FINISHED AREAS	CAST IRON	–	NO–HUB	NICKLE BRONZE	–	ROUND	NO	YES	NO	NO	22 13 16	J.R. SMITH #2005Y–A	DEEP SEAL 'P'–TRAP
FD–3	USED IN MECH AREAS ON GRADE	CAST IRON	–	NO–HUB	CAST IRON	–	ROUND	NO	NO	NO	NO	22 13 16	J.R. SMITH #2220Y	DEEP SEAL 'P'–TRAP WITH FLOOR CLEANOUT
FD–4	USED IN MECH. AREAS ABOVE GRADE	CAST IRON	–	NO–HUB	CAST IRON	–	ROUND	NO	NO	YES	NO	22 13 16	J.R. SMITH #2220Y	DEEP SEAL 'P'–TRAP
FD–5	FLOOR SINK	CAST IRON	–	CAULK	DUCTILE IRON	–	3/4 GRATE	NO	YES	YES	NO	22 13 16	J.R. SMITH #2450–13	DEEP SEAL 'P'–TRAP WITH FLOOR CLEANOUT
FD–6	FLOOR SINK	CAST IRON	–	NO–HUB	NICKLE BRONZE	–	1/2 GRATE	NO	NO	YES	NO	22 13 16	J.R. SMITH #3161–12	DEEP SEAL 'P'–TRAP
AD–1	EXTERIOR RAIN WATER USAGE	CAST IRON	–	NO–HUB	CAST IRON	–	ROUND	NO	NO	YES	NO	22 13 16	J.R. SMITH #2220Y	LESS TRAP

NOTES:
1.
2.
3.

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PROJECT NO. 2921
DATE MARCH 26, 2024
DRAWN BY A. NOWLIN
CHECKED BY D. BRUCE

SHEET NAME
PLUMBING SCHEDULES

SHEET NO.
PL601

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MECHANICAL ABBREVIATIONS

A	AIR
AA	ANODIZED ALUMINUM
AC	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCH	AIR COOLED CONDENSING UNIT
ADD	ADDITION
AD	ACCESS DOOR
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMB	AMBIENT
A/P	ACCESS PANEL
AP	ACID PROOF
APLV	APPLICATION PART LOAD VALUE
APROX	APPROXIMATE
ARV	AIR RELIEF VENT
AUTO	AUTOMATIC
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
BDD	BACKDRAFT DAMPER
BFW	BOILER FEED WATER
BLDG	BUILDING
BO	BLOW-OFF
BSMT	BASEMENT
BT	BATH TUB
BTM	BOTTOM
BTUH	BRITISH THERMAL UNIT / HOUR
CAP	CAPACITY
CB	CATCH BASIN
CC	CABINET CONVECTOR
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	COOLING
CLSK	CLINICAL SERVICE SINK
CO	CLEANOUT
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CONDENSATE PUMP
COP	COEFFICIENT OF PERFORMANCE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
C.S.	CABINET SINK
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	COLD WATER
db	DECIBELS
DB	DRY BULB (TEMPERATURE)
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DISCH	DISCHARGE
DL	DOOR LOUVER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EA	EXHAUST AIR
ED	EQUIPMENT DRAIN
EDH	ELECTRIC DUCT AIR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
EMD	END OF MAIN DRIP (STEAM)
EMG	EXPANDED METAL GRILLE
ENCL	ENCLOSURE
ENT	ENTERING
EOM	END OF MAIN DRIP
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FACE AREA
FCU	FAN COIL UNIT
FC	FLEXIBLE CONNECTION
F/D	FIRE DAMPER
FD	FLOOR DRAIN
FH CAB	FIRE HOSE CABINET
FIN	FINISH
F	FIRE LINE
FLEX	FLEXIBLE
FLR	FLOOR
FOG	FUEL OIL GAUGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
FPB	FAN POWERED VAV BOX
F/SD	FIRE AND SMOKE DAMPER
FTR	FINNED TUBE RADIATION
FPM	FEET PER MINUTE
F&T	FLOAT & THERMOSTATIC (TRAP)
FURN	FURNACE
FV	FACE VELOCITY
G	GAS
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
HB	HOSE BIBB
HT	HEIGHT
HF	HEPA FILTER
HORIZ	HORIZONTAL
HP	HORSE POWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HRP	HYDRONIC RADIANT CEILING PANEL
HTG	HEATING
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HW	HOT WATER (DOMESTIC)
HWR	HOT WATER RETURN (HVAC)
HWS	HOT WATER SUPPLY (HVAC)
ICF	INLINE CENTRIFUGAL FAN
ID	INSIDE DIAMETER
INCIN	INCINERATOR
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JD	JANITORS DRAIN
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LC	LAVATORY IN CABINET
LF	LINEAR FEET
LOC	LOCATION
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU/HR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MF	MIXING FAUCET
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NEGATIVE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
ø	PHASE OR DIAMETER (DUCT)
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OFD	OVERFLOW ROOF DRAIN
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
P	PUMP
PA	PRIMARY AIR
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PE	PNEUMATIC ELECTRIC
PIV	POST INDICATOR VALVE
PREFAB	PREFABRICATED
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PTU	POWERED TERMINAL UNIT
PUH	PROPELLER UNIT HEATER
RA	RETURN AIR
RAD	RADIATION
RACP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECEIVER
RECIR	RECIRCULATING
RECT	RECTANGULAR
REG	REGISTER
REF	ROOF EXHAUST FAN
REINF	REINFORCED
REL	RELIEF
RET	RETURN
REQ'D	REQUIRED
R.H.	RODDING HOLE
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	ROOF VENT
S.A.	SOUND ATTENUATOR
SA	SUPPLY AIR
SAN	SANITARY
SC	SILL COCK
SCW	SOFT COLD WATER
S.D.	SHOWER DRAIN
SD	SMOKE DAMPER
SECT	SECTION
SH	SHOWER HEAD
SHT	SHEET
SK	SINK
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
ST	STORM
STAT	THERMOSTAT
STD	STANDARD
STM	STEAM
STR	STRUCTURAL
SUS	SUPPLY
SUSP	SUSPENDED
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TW	TEMPERED WATER
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UR	URINAL
UV	UNIT VENTILATOR
V	VENT
VA	VALVE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATOR
VSMC	VARIABLE SPEED MOTOR CONTROLLER
VT	VITRIFIED TILE
VTR	VENT THRU ROOF
W	WASTE
W	WITH
WB	WET BULB (TEMPERATURE)
WC	WATER CLOSET
WEF	WALL EXHAUST FAN
WFR	WALL FIN RADIATION
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT
WTR	WATER

PIPING SYMBOLS

	DOMESTIC COLD WATER
HWS	DOMESTIC HOT WATER
FS	FIRE SUPPRESSION
GAS	NATURAL GAS SERVICE
SS	SANITARY SEWER
SD	STORM DRAIN
	VENT
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	CAPPED PIPE OR TEE
	FLOW IN DIRECTION OF ARROW
	WATER HAMMER ARRESTER
	SHUTOFF VALVE
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE
	THERMOMETER
	UNION (DIELECTRIC OR AS NOTED)
	TEMPERATURE & PRESSURE RELIEF VALVE
C.O.	FLOOR/GRADE CLEAN-OUT
F.D.	FLOOR DRAIN
	HOSE BIBB
RD RDO	ROOF DRAIN/OVERFLOW

MECHANICAL SYMBOLS

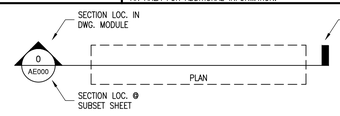
	MECHANICAL EQUIPMENT	300	SQUARE DIFFUSER (TYPE & AIR QUANTITY IN CFM INDICATED)
	SUPPLY AIR DUCT UP	600	ROUND DIFFUSER (TYPE & AIR QUANTITY IN CFM INDICATED)
	SUPPLY AIR DUCT DOWN	400	SUPPLY OUTLET (NOMINAL SIZE, TYPE, & AIR QUANTITY IN CFM INDICATED)
	RETURN/EXHAUST AIR DUCT UP	400	EXHAUST OR RETURN INLET (NOMINAL SIZE, TYPE, & AIR QUANTITY IN CFM INDICATED)
	RETURN/EXHAUST AIR DUCT DOWN	400 (+12")	ALL UNITS LOCATED IN OR NEAR CEILING, UNLESS DIMENSION SHOWN INDICATING (HEIGHT A.F.F.)
10X8	RECTANGULAR DUCT SIZE (FIRST DIMENSION LISTED IS DIMENSION SHOWN IN VIEW)	UC 1/2" 100	DOOR, UNDERCUT (SIZE & AIR QUANTITY IN CFM INDICATED)
10"ø	ROUND DUCT SIZE	DG 1 600	DOOR GRILLE (FREE AREA REQUIRED & AIR QUANTITY IN CFM INDICATED)
	AIR DIVERTER (EXTRACTOR)		
VD	VOLUME DAMPER		
BDD	BACK DRAFT DAMPER		
		T	THERMOSTAT
	TURNING VANES		SUPPLY AIR DIRECTION
			RETURN, EXHAUST, OR RELIEF AIR DIRECTION
	MANUAL SPLITTER DAMPER	SACD	SUPPLY AIR CEILING DIFFUSER
		SAWD	SUPPLY AIR WALL DIFFUSER
	FLEXIBLE CONNECTION	RACG	RETURN AIR CEILING GRILLE
		RAWG	RETURN AIR WALL GRILLE

GENERAL MECHANICAL NOTES:

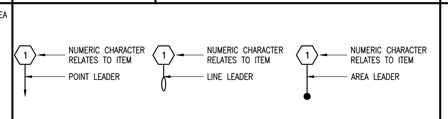
1. THESE NOTES APPLY TO ALL MECHANICAL SHEETS.
2. ALL MECHANICAL WORK IS TO BE IN ACCORDANCE W/ THE INDIANA MECHANICAL CODE, 1997 EDITION (IMC, 1996 EDITION) (675 IAC 18-1.3) EFFECTIVE 1/23/98 – REPEALED 5/21/03.
3. HVAC SUBCONTRACTOR SHALL COORDINATE W/ THE ELECTRICAL SUBCONTRACTOR FOR ANY & ALL ELECTRICAL REQUIREMENTS OF ACTUAL MECHANICAL EQUIPMENT UTILIZED, INCLUDING LOW & HIGH VOLTAGE WIRING, DISCONNECTS, CIRCUIT BREAKERS, ETC.
4. HVAC SUBCONTRACTOR SHALL COORDINATE W/ GENERAL CONTRACTOR FOR ALL REQUIREMENTS OF SIZE, LOC., SCHEDULES, ETC., OF ALL THRU-ROOF & WALL PENETRATIONS REQ'D. FOR INSTALLATION OF ALL MECHANICAL SYSTEMS & DUCTWORK.
5. ALL SUPPLY & RETURN DUCTWORK SHALL BE GALV. STL. SIZED AS INDICATED, CONSTRUCTED & INSTALLED IN ACCORDANCE W/ THE LATEST EDITION OF SMACNA STANDARDS FOR HVAC & DUCTWORK CONSTRUCTION. ALL SUPPLY AIR DUCTS SHALL HAVE 1/2" INSULATIVE DUCT LINERS. DUCT SIZES INDICATED ON PLANS ARE IN INCH DIMENSIONS EXCLUSIVE OF LINER.
6. ALL REGISTERS & GRILLS SHALL BE HART & COOLEY & SIZED AS REQ'D. FOR CFM NOTED @ 500 FPM MAX. FACE VELOCITY. ALL REGISTERS SHALL HAVE REGULATING DAMPERS.
7. EXTEND PVC CONDENSATE DRAIN TO 2" STANDPIPE, COORDINATE W/ PLUMBING CONTRACTOR.
8. PROVIDE ALL CONTROL & INTERLOCK WIRING COMPLETE FOR THIS PROJECT.
9. COORDINATE INSTALLATION OF WORK W/ ALL OTHER TRADES & CONDITIONS AS REQ'D. FOR A COMPLETE & OPERABLE HVAC SYSTEM. CLEARANCES ABOVE CEILINGS ARE EXTREMELY TIGHT IN CERTAIN AREAS.
10. COORDINATE ALL OPENINGS THROUGH NEW WALL & FLR. CONSTRUCTION W/ GENERAL TRADES.
11. REVIEW RETURN AIR PATH BACK TO ALL HVAC EQUIPMENT. PROVIDE RETURN AIR OPENINGS AND/OR TRANSFER DUCTS IN WALLS ABOVE THE CEILING WHERE REQUIRED. COORDINATE WITH GENERAL TRADES. VELOCITY THRU R.A. OPENINGS SHALL NOT EXCEED 500 FPM. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL EXTENDING TO DECK.
12. COORDINATE EXACT LOC. OF ALL EQUIP. & DUCTWORK W/ THE CLG. SYSTEM & LIGHT FIXTURES. REF. REFLECTED CLG. PLANS & ELECTRICAL LIGHTING PLANS.
13. COORDINATE ROUTING OF DUCTWORK, PIPING & EQUIPMENT W/ ALL OTHER TRADES.
14. PROVIDE 45'/90' FITTING W/ VOLUME DAMPER LIKE FLEXMASTER MODEL STO @ ALL SUPPLY AIR BRANCH DUCTWORK TAKEOFFS.
15. COORDINATE LOC'S. OF ALL GRILLES, REGISTERS & DIFFUSERS IN CEILINGS W/ THE CLG. SYSTEM AND LIGHT FIXTURES. REF. REFLECTED CLG. PLANS & ELECTRICAL LIGHTING PLANS. PROVIDE FLEXIBLE DUCT UPSTREAM OF EA. DIFFUSER WHERE SHOWN.
16. PROVIDE VOLUME DAMPERS IN ALL SUPPLY AIR BRANCH DUCTWORK AS REQ'D. TO BALANCE EA. SYSTEM & LIGHT FIXTURES. REF. REFLECTED CLG. PLANS & ELECTRICAL LIGHTING PLANS. PROVIDE FLEXIBLE DUCT UPSTREAM OF EA. DIFFUSER WHERE SHOWN.
17. ROUND DUCT SIZE TO BE THE SAME SIZE AS THE DIFFUSER INLET NECK, U.N.O.
18. MAX. LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5'-0".
19. ALL FURNACE SYSTEM LOW PRESSURE RECTANGULAR SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY INSUL. ROUND SUPPLY & RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSUL. OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSUL. SEE SPECS FOR ADDT'L INSUL. REQUIREMENTS.
20. BOX AROUND DUCT SIZE INDICATES INTERNALLY LINED DUCTWORK. SIZE SHOWN INDICATES ACTUAL FREE AREA. REF. MECHANICAL SPECS.
21. TRANSFER AIR DUCTS SHALL BE INTERNALLY LINED W/ INSUL. TO DETER NOISE TRANSFER. SIZE SHOWN ON PLAN INDICATES ACTUAL FREE SPACE.
22. SQUARE DIFFUSERS ARE 4-WAY BLOW U.N.O..
23. WIRING TO THERMOSTATS SHALL BE CONCEALED WITHIN THE WALL.
24. DUCTWORK SHALL BE LOC. IN THE CLG. PLENUM (ABOVE LAY-IN CEILING U.N.O.
25. COORDINATE ALL DUCTWORK ROUTING & DUCTWORK ELEVATIONS W/ STRUCTURAL SUPPORTS FOR PARTITION WALLS. REF. STRUCTURAL DRAWINGS FOR SIZE & LOC'S. OF PARTITION WALL SUPPORTS.

MECHANICAL REFERENCE SYMBOLS

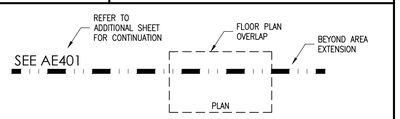
SECTION INDICATOR: REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION.



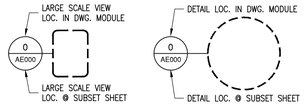
KEYNOTE INDICATORS: REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION.



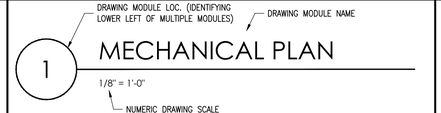
MATCH LINE INDICATOR: REFERENCE SHEET LOCATION FOR ADDITIONAL INFORMATION.



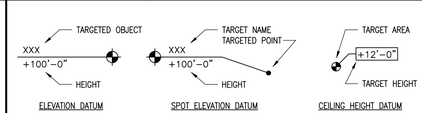
SECTION INDICATOR: REFERENCE DETAIL LOCATION FOR ADDITIONAL INFORMATION.



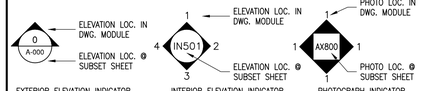
DRAWING BLOCK TITLE INDICATOR: REFERENCE DRAWING MODULE LOCATION FOR ADDITIONAL INFORMATION.



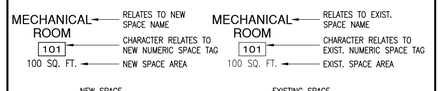
DATUM INDICATORS: REFERENCE BUILDING PLANS FOR ADDITIONAL INFORMATION.



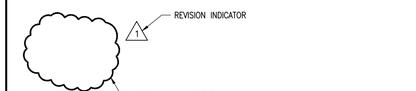
ELEVATION INDICATOR: REFERENCE ELEVATION LOCATION FOR ADDITIONAL INFORMATION.



SPACE INDICATOR:



REVISION INDICATOR: REFERENCE TITLE BLOCK LOCATION FOR ADDITIONAL INFORMATION.



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REVISIONS

A NEW FIRE STATION FOR:

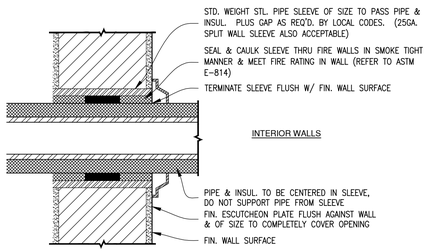
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
H. Doug Bruce

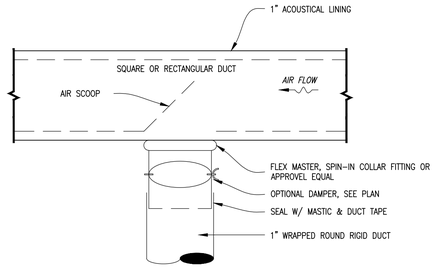
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	
CHECKED BY	D. BRUCE

SHEET NAME
MECHANICAL SYMBOLS & ABBREVIATIONS

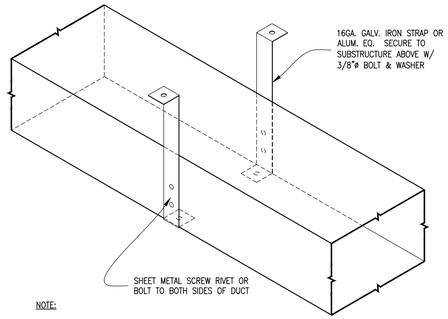
SHEET NO.
MH001



J TYP. PIPE PENETRATIONS
NOT TO SCALE



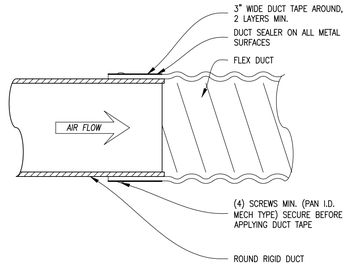
F TYPICAL ROUND TAKE-OFF DETAIL
NOT TO SCALE



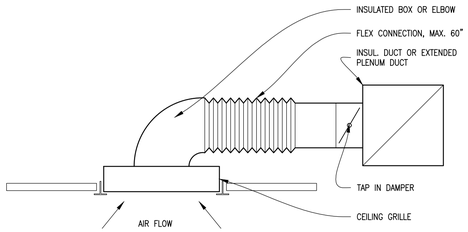
NOTE:

PROVIDE (3) HANGERS @ EA. TAKE-OFF OR BRANCH. 8'-0" MAX. HANGER SPA.

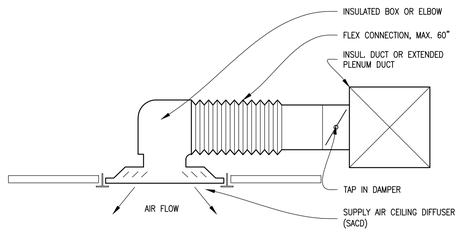
C RECT. DUCT HANGER DETAIL
NOT TO SCALE



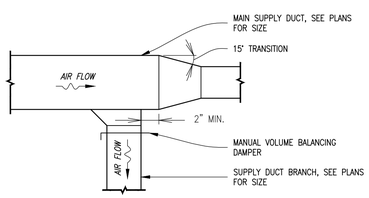
H ROUND TO FLEXIBLE DUCT DETAIL
NOT TO SCALE



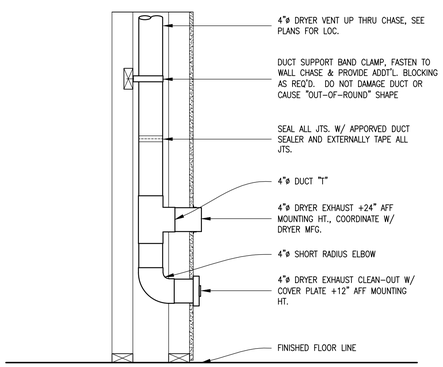
E RETURN AIR GRILLE DETAIL
NOT TO SCALE



B SUPPLY AIR DIFFUSER DETAIL
NOT TO SCALE



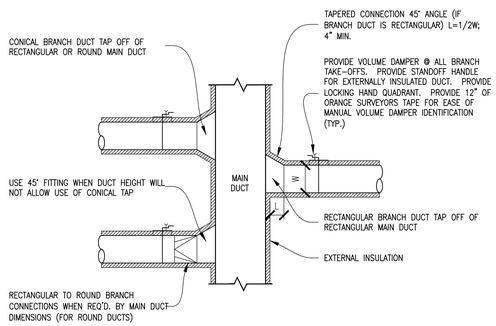
K TYPICAL SUPPLY DUCT DETAIL
NOT TO SCALE



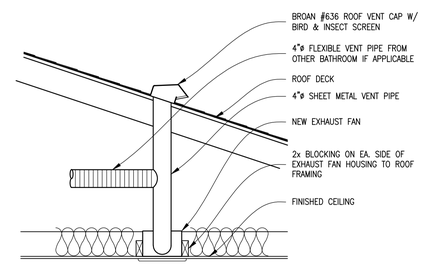
NOTES:

- DO NOT USE POP RIVETS OR SHEET METAL SCREWS TO ATTACH DUCTWORK SECTIONS.
- FIRE SEAL ALL DRYER VENT DUCT WALL PENETRATIONS.

G DRYER CONNECTION DETAIL
1" = 1'-0"



D BRANCH DUCT DETAIL
NOT TO SCALE



NOTE:

WHERE POSSIBLE, CONTRACTOR SHALL TIE TWO BATHROOM EXHAUST FANS INTO ONE VENT THRU ROOF.

DO NOT TIE FANS FROM ADJACENT UNITS TOGETHER.

A EXHAUST FAN DETAIL
1" = 1'-0"

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REVISIONS

A NEW FIRE STATION FOR:

MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT
D. Bruce

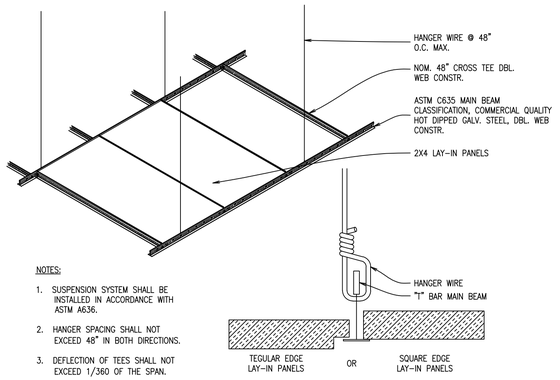
PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	W. WHITMAN
CHECKED BY	D. BRUCE

SHEET NAME

MECHANICAL DETAILS

SHEET NO.

MH501



NOTES:

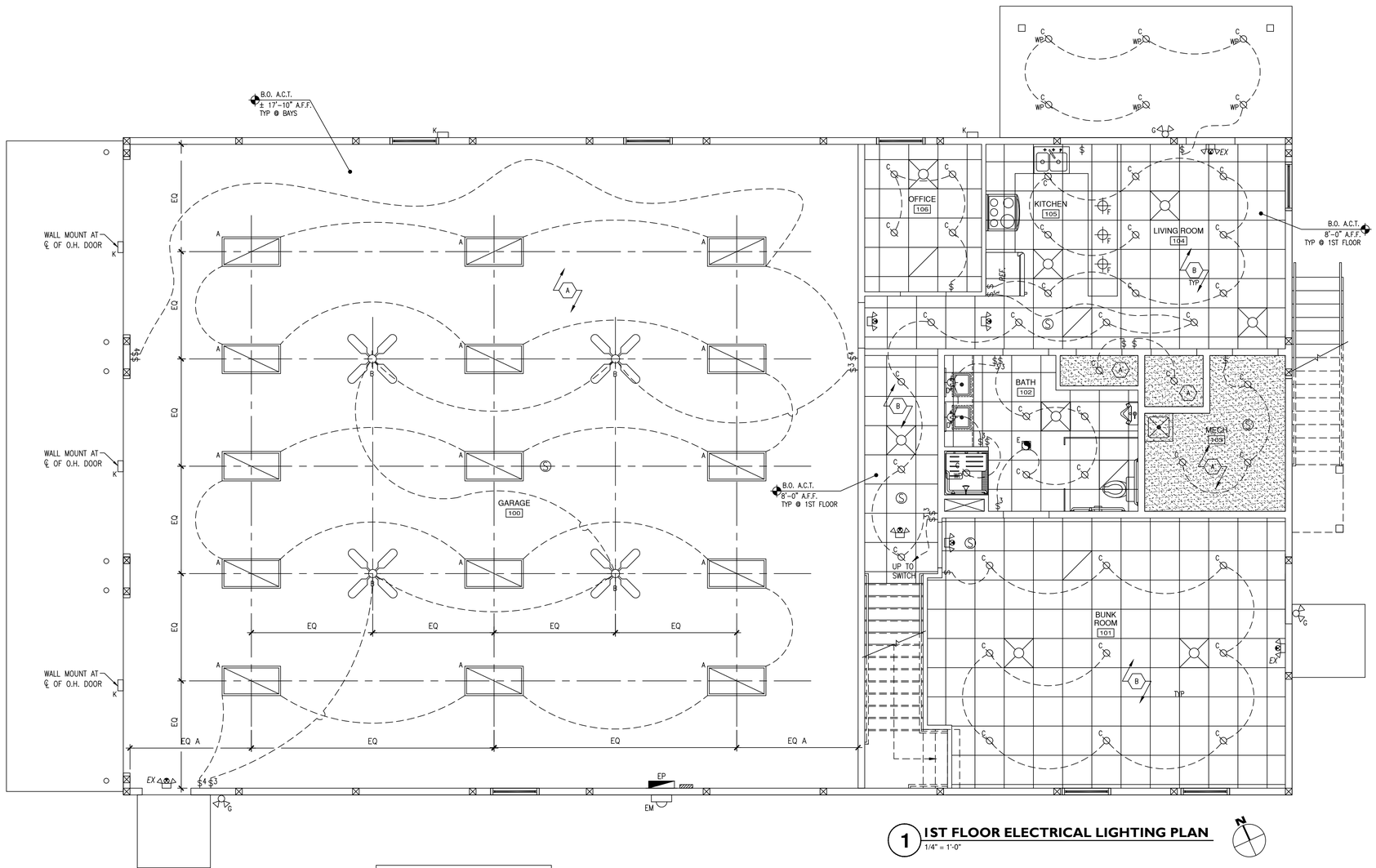
1. SUSPENSION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASTM A636.
2. HANGER SPACING SHALL NOT EXCEED 48" IN BOTH DIRECTIONS.
3. DEFLECTION OF TEES SHALL NOT EXCEED 1/360 OF THE SPAN.

A SUSPENDED LAY-IN CEILING
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	NUMBER OF LAMPS	MANUFACTURER	QUANTITY OF FIXTURES	LAMP TYPE	VOLTAGE/ WATTAGE	MOUNTING	DESCRIPTION
A	2-4	BY OWNER	15	LED	120V/ 30W	SURFACE MOUNTED	2'-0" x 4'-0" HIGH BAY LED FIXTURE.
B	0	BY OWNER	4	N/A	PER MFR.	SURFACE MOUNTED	BUCKET CEILING FAN
C	1	BY OWNER	38	LED	120V/ 18W	RECESSED	6" RECESSED LED TRIMS.
D	1	BY OWNER	2	LED	120V/ 32W	WALL MOUNTED	WALL-MOUNTED VANITY LIGHT FIXTURE.
E	1	BROAN HD80L	1	LED	120V/ 32W	SURFACE MOUNTED	80 CFM 2.5 SONES EXHAUST FAN AND LIGHT, PROVIDE 4"ø DUCT TO OUTSIDE
F	1	BY OWNER	3	LED	120V/ 32W	CEILING MOUNTED	L.E.D. HANGING PENDANT FIXTURE
G	2	BY OWNER	3	LED	120V/ 150	WALL MOUNTED	150-WATT 2-LIGHT OUTDOOR FLOOD LIGHT WITH PHOTOCELL
K	1	SUPER BRIGHT LED WPFC-RI-50K80-LD	4	LED	120V/277V/80W	WALL MOUNTED	PROVIDE PHOTO CELL.
EX		LITHONIA LHQM S 3 R 120/277 N R O	6	LED	120	WALL OR CEILING	LED EXIT SIGN. WALL MOUNTED. DOUBLE FACE RED LED. WHITE TRIM.

NOTES:
1. SEE SPECIFICATIONS FOR BALLAST MFG'S. FOR LINEAR FLUORESCENT & COMPACT FLUORESCENT LAMPS.
2. ALL FIXTURE COUNTS AND LOCATIONS ARE TO BE VERIFIED WITH OWNER PRIOR TO ORDERING/INSTALLING



1 1ST FLOOR ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES:

CEILING TYPE SCHEDULE

NOTE: SEE FIXTURE SCHEDULE ABOVE FOR ADDITIONAL INFORMATION

CEILING TYPE	INDICATION SYMBOL	DESCRIPTION
A		GYP. BD. CLG., U.N.O., REF. SPECS. FOR FINISH/RM. SCHED. FOR COLOR & WET BD. LOC.
B		2X2 ACOUSTIC PANEL CLG. SYSTEM TYPE 1, CENTER GRID U.N.O.

CEILING LEGEND

SYMBOL	DESCRIPTION
A	2X4 L.E.D. LIGHT FIXTURE
B	LARGE VOLUME BUCKET FAN. SWITCHABLE W/REMOTE
C	RECESSED L.E.D. LIGHT FIXTURE
C WP	WATERPROOF RECESSED L.E.D. LIGHT FIXTURE
D	EXHAUST FAN, VENT TO EXT.
E	CEILING-MOUNTED EXHAUST FAN, VENT TO EXT.
F	CEILING-MOUNTED PENDANT LIGHT
G	WALL-MOUNTED 2-LIGHT OUTDOOR FLOOR
K	WALL MOUNTED EMERGENCY LIGHT/EXIT W/ BATTERY BACKUP +80" A.F.F.
EX	WALL MOUNTED EMERGENCY LIGHT/EXIT W/ BATTERY BACKUP +80" A.F.F.
	SUPPLY AIR GRILLE/DIFFUSER/REGISTER
	EXHAUST OR RETURN AIR GRILLE/DIFFUSER/ REGISTER SEE MECHANICAL PLANS

CEILING GENERAL NOTES:

1. ALL CLG. HEIGHTS ARE TO BE AS NOTED ON PLAN. COORDINATE FIN. CLG. HT. W/ ALL OTHER TRADES, & W/ MECH. AND ELEC., & OTHER EQUIP. & ITEMS ABV. CLG.
2. UNLESS SPECIFICALLY DIRECTED OTHERWISE, LOC. ALL GRILLES, DIFFUSERS, REGISTERS, FIXTURES, OR OTHER SUCH EQUIP. FLUSH W/ CLG. SURFACE & CENTERED ON TILE.
3. WHERE NO ORIGIN POINT IS INDICATED, CENTER GRID AS SHOWN ON REFLECTED CLG. PLAN.
4. PROVIDE CONTROL JTS. IN GYP. BD. CLG'S. & BULKHEADS AS INDICATED MFG'S. RECOMMENDATIONS. COORDINATE LOC. W/ ARCHITECT.
5. WHERE GYP. BD. ABUTS CMU CONSTRUCTION, PROVIDE CONT. "J" MOLD & SEALANT @ JT. INSTALL CLG. GRID @ ORIGIN POINT INDICATED IN RM.
6. PROVIDE ACCESS PANELS IN ALL CLG. AREAS AS SHOWN. IN ADDITION, PROVIDE ACCESS PANELS IN ALL SOLID CLG. AREAS AS REQ'D. BY CODE. WHETHER INDICATED OR NOT, COORDINATE SIZE & LOCATIONS W/ ARCHITECT; 24"X24" TYP.SIZE, U.N.O.
7. WHERE MECH. DUCT WORK IS TO BE CONCEALED IN NEW GYP. BD. SOFFITS, GENERAL CONTRACTOR SHALL COORDINATE EXACT SIZE REQ'D. TO COMPLETELY CONCEAL DUCT WORK W/ MECH. CONTRACTOR.

TABOR BRUCE
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REVISIONS

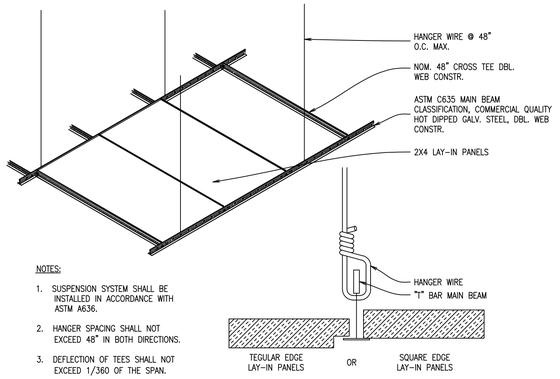
A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE — REGISTERED — NO. AR19900009 — STATE OF INDIANA — ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	R. SCHAUB
CHECKED BY	D. BRUCE

SHEET NAME
ELECTRICAL LIGHTING PLAN (RCP)

SHEET NO.
EL101



NOTES:

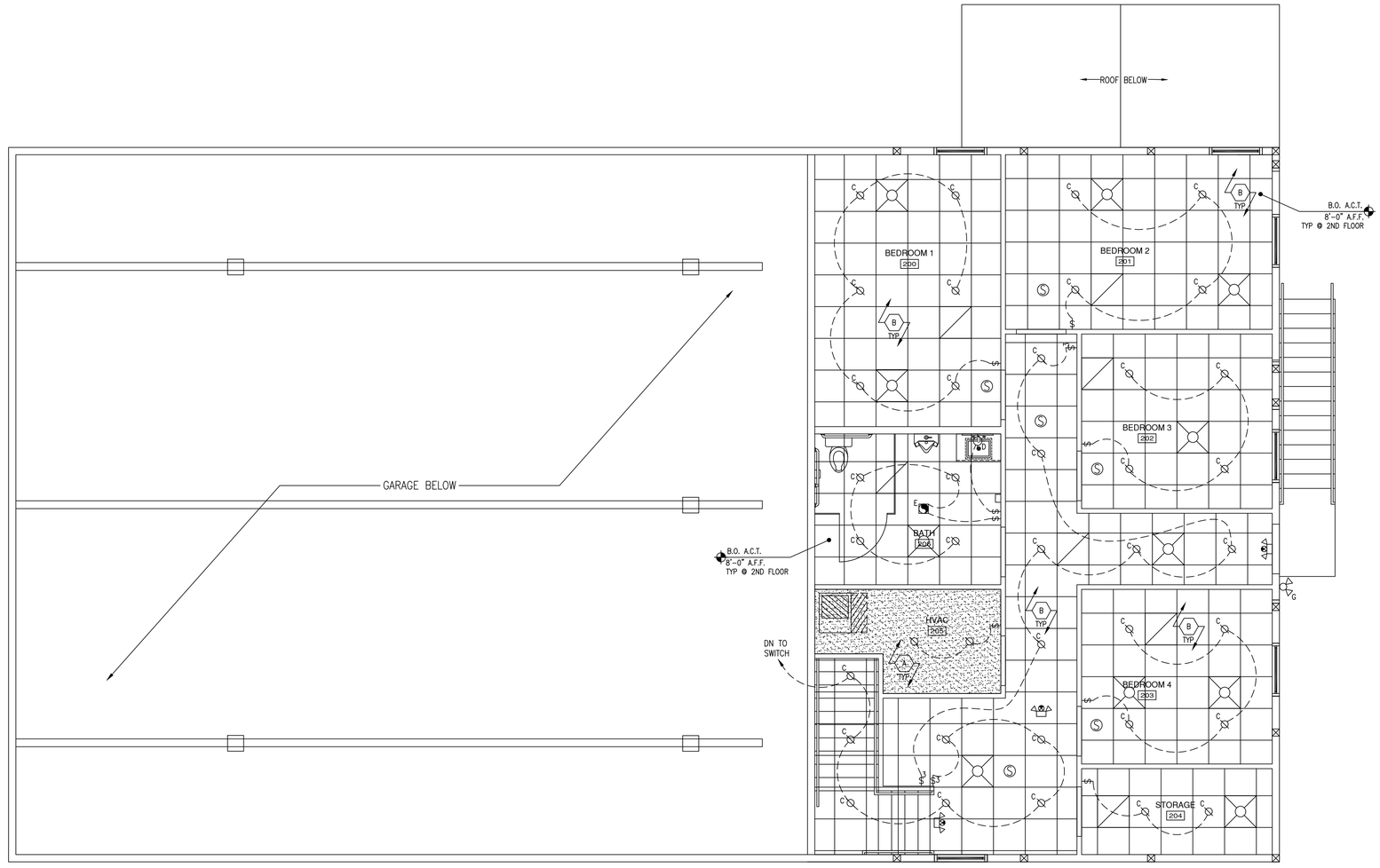
1. SUSPENSION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASTM A636.
2. HANGER SPACING SHALL NOT EXCEED 48" IN BOTH DIRECTIONS.
3. DEFLECTION OF TEES SHALL NOT EXCEED 1/360 OF THE SPAN.

A SUSPENDED LAY-IN CEILING
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	NUMBER OF LAMPS	MANUFACTURER	QUANTITY OF FIXTURES	LAMP TYPE	VOLTAGE/ WATTAGE	MOUNTING	DESCRIPTION
A	2-4	BY OWNER	0	LED	120V/ 30W	SURFACE MOUNTED	2'-0" x 4'-0" HIGH BAY LED FIXTURE.
B	2	BY OWNER	0	N/A	PER MFR.	SURFACE MOUNTED	BUCKET CEILING FAN
C	1	BY OWNER	37	LED	120V/ 18W	RECESSED	6" RECESSED LED TRIMS.
D	1	BY OWNER	1	LED	120V/ 32W	WALL MOUNTED	VANITY LIGHT FIXTURE.
E	1	BROAN HD80L	1	LED	120V/ 32W	SURFACE MOUNTED	80 CFM 2.5 SONES EXHAUST FAN AND LIGHT, PROVIDE 4"ø DUCT TO OUTSIDE
F	1	BY OWNER	0	LED	120V/ 32W	CEILING MOUNTED	L.E.D. HANGING PENDANT FIXTURE
G	2	BY OWNER	1	LED	120V/ 150	WALL MOUNTED	150-WATT 2-LIGHT OUTDOOR FLOOD LIGHT WITH PHOTOCELL
K	1	SUPER BRIGHT LED WPFC-RI-50K80-LD	0	LED	120V/277V/80W	WALL MOUNTED	PROVIDE PHOTO CELL.
EX		LITHONIA LHQM S 3 R 120/277 N R O	3	LED	120	WALL OR CEILING	LED EXIT SIGN. WALL MOUNTED. DOUBLE FACE RED LED. WHITE TRIM.

NOTES:
1. SEE SPECIFICATIONS FOR BALLAST MFG'S. FOR LINEAR FLUORESCENT & COMPACT FLUORESCENT LAMPS.
2. ALL FIXTURE COUNTS AND LOCATIONS ARE TO BE VERIFIED WITH OWNER PRIOR TO ORDERING/INSTALLING



2 2ND FLOOR ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES:

CEILING TYPE SCHEDULE

NOTE: SEE FIXTURE SCHEDULE ABOVE FOR ADDITIONAL INFORMATION

CEILING TYPE	INDICATION SYMBOL	DESCRIPTION
A		GYP. BD. CLG., U.N.O., REF. SPECS. FOR FINISH/RM. SCHED. FOR COLOR & WET BD. LOC.
B		2X2 ACOUSTIC PANEL CLG. SYSTEM TYPE 1, CENTER GRID U.N.O.

CEILING LEGEND

SYMBOL	DESCRIPTION
A	2X4 L.E.D. LIGHT FIXTURE
B	LARGE VOLUME BUCKET FAN. SWITCHABLE W/REMOTE
C	RECESSED L.E.D. LIGHT FIXTURE
C WP	WATERPROOF RECESSED L.E.D. LIGHT FIXTURE
D	EXHAUST FAN, VENT TO EXT.
E	CEILING-MOUNTED EXHAUST FAN, VENT TO EXT.
F	CEILING-MOUNTED PENDANT LIGHT
G	WALL-MOUNTED 2-LIGHT OUTDOOR FLOOR
K	WALL MOUNTED EMERGENCY LIGHT/EXIT W/ BATTERY BACKUP +80" A.F.F.
EX	WALL MOUNTED EMERGENCY LIGHT/EXIT W/ BATTERY BACKUP +80" A.F.F.
	SUPPLY AIR GRILLE/DIFFUSER/REGISTER
	EXHAUST OR RETURN AIR GRILLE/DIFFUSER/ REGISTER SEE MECHANICAL PLANS

CEILING GENERAL NOTES:

1. ALL CLG. HEIGHTS ARE TO BE AS NOTED ON PLAN. COORDINATE FIN. CLG. HT. W/ ALL OTHER TRADES, & W/ MECH. AND ELEC., & OTHER EQUIP. & ITEMS ABV. CLG.
2. UNLESS SPECIFICALLY DIRECTED OTHERWISE, LOC. ALL GRILLES, DIFFUSERS, REGISTERS, FIXTURES, OR OTHER SUCH EQUIP. FLUSH W/ CLG. SURFACE & CENTERED ON TILE.
3. WHERE NO ORIGIN POINT IS INDICATED, CENTER GRID AS SHOWN ON REFLECTED CLG. PLAN.
4. PROVIDE CONTROL JTS. IN GYP. BD. CLG'S. & BULKHEADS AS INDICATED MFG'S. RECOMMENDATIONS. COORDINATE LOC. W/ ARCHITECT.
5. WHERE GYP. BD. ABUTS CMU CONSTRUCTION, PROVIDE CONT. "J" MOLD & SEALANT @ JT. INSTALL CLG. GRID @ ORIGIN POINT INDICATED IN RM.
6. PROVIDE ACCESS PANELS IN ALL CLG. AREAS AS SHOWN. IN ADDITION, PROVIDE ACCESS PANELS IN ALL SOLID CLG. AREAS AS REQ'D. BY CODE. WHETHER INDICATED OR NOT, COORDINATE SIZE & LOCATIONS W/ ARCHITECT; 24"X24" TYP.SIZE, U.N.O.
7. WHERE MECH. DUCT WORK IS TO BE CONCEALED IN NEW GYP. BD. SOFFITS, GENERAL CONTRACTOR SHALL COORDINATE EXACT SIZE REQ'D. TO COMPLETELY CONCEAL DUCT WORK W/ MECH. CONTRACTOR.

TABOR BRUCE
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1101 S. WALNUT STREET - BLOOMINGTON, IN. 47401
TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

REVISIONS

A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE REGISTERED NO. AR19900009 STATE OF INDIANA ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	R. SCHAUB
CHECKED BY	D. BRUCE

SHEET NAME
ELECTRICAL LIGHTING PLAN

SHEET NO.
EL102

1 1ST FLOOR ELECTRICAL POWER PLAN

1/4" = 1'-0"

NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL POWER SUPPLY REQUIREMENTS FOR MECHANICAL EQUIPMENT (FURNACE, CONDENSERS, EVAPORATORS, ETC.) WITH MECHANICAL CONTRACTOR.

ELECTRICAL PLAN KEYNOTES:

1. 200 AMP MAIN SERVICE PANEL
2. SPARE
3. BASE BID: 100 AMP SUB-PANEL (FOR ALL ELECTRICAL WORK IN BAY 106) FED FROM MAIN PANEL.

DEVICE MOUNTING HEIGHTS

- DEVICES FOR MECHANICAL EQUIPMENT MUST BE COORDINATED WITH EQUIPMENTS REQUIREMENTS. ALL HEIGHTS ARE FROM FINISHED FLOOR OR FACE OR STUD TO CENTER OF DEVICE

CONVIENIENCE OUTLET	+18" AFF
DATA/COMMUNICATION OUTLET	+18" AFF
LIGHT SWITCH OR DIMMER	+44" AFF
*DEVICES ABOVE COUNTERTOP	+44" AFF
THERMOSTAT OR TEMPERATURE SENSOR	+48" AFF

POWER SYMBOLS LEGEND

⏚	DUPLEX CONVENIENCE RECEPTACLE, 20A 115V WALL MOUNT DEVICE
⏚ GFI	*DUPLEX CONVENIENCE RECEPTACLE, 20A 115V WALL MOUNT DEVICE WITH GROUND FAULT CIRCUIT INTERRUPTER. INSTALL AT CABINET HEIGHT IN KITCHEN AND AT VANITIES. COORDINATE WITH CABINET/VANITY HEIGHT & ANY BACK SPLASH LOCATIONS
⏚ W/USB	*DUPLEX CONVENIENCE RECEPTACLE, 20A 115V WALL MOUNT DEVICE WITH INTEGRATED USB OUTLET. INSTALL AT CABINET HEIGHT IN KITCHEN AND AT VANITIES. COORDINATE WITH CABINET/VANITY HEIGHT & ANY BACK SPLASH LOCATIONS
GFI ⏚ W/USB	DUPLEX CONVENIENCE RECEPTACLE, 20A 115V WALL MOUNT DEVICE WITH GROUND FAULT CIRCUIT INTERRUPTER & INTEGRATED USB OUTLET. INSTALL AT CABINET HEIGHT IN KITCHEN AND AT VANITIES. COORDINATE WITH CABINET/VANITY HEIGHT & ANY BACK SPLASH LOCATIONS
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
(T)	SEE MECHANICAL PLAN FOR THERMOSTAT LOCATIONS

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H Doug Bruce

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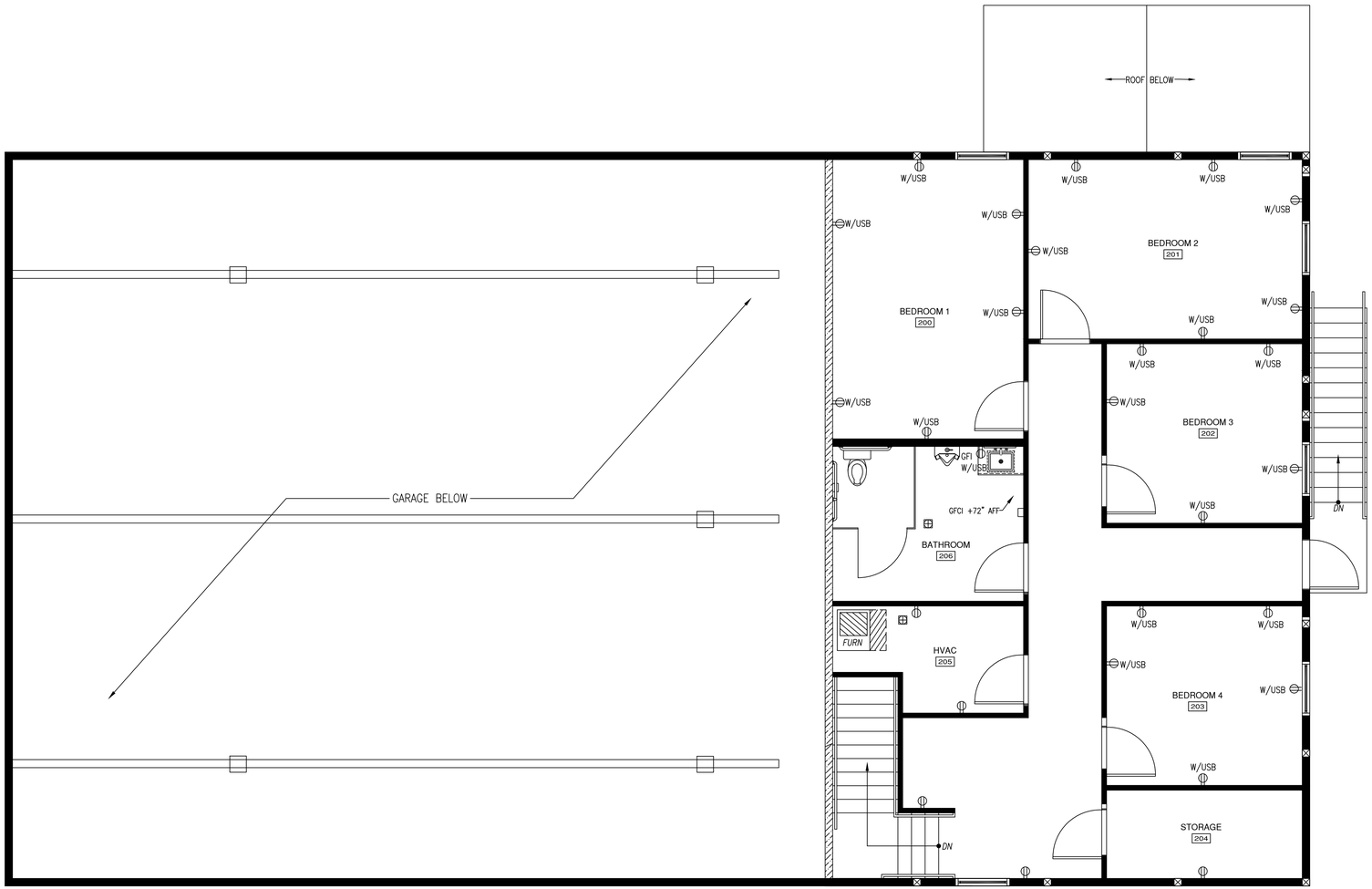
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME

ELECTRICAL POWER PLAN

SHEET NO.

EP101



1 2ND FLOOR ELECTRICAL POWER PLAN

1/4" = 1'-0"

NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL POWER SUPPLY REQUIREMENTS FOR MECHANICAL EQUIPMENT (FURNACE, CONDENSERS, EVAPORATORS, ETC.) WITH MECHANICAL CONTRACTOR.

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$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
(T)	SEE MECHANICAL PLAN FOR THERMOSTAT LOCATIONS

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ELECTRICAL POWER PLAN

SHEET NO.

EP102

ABBREVIATIONS

Ø	PHASE	EXC	EXISTING WATER COOLER	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
°F	DEGREES FAHRENHEIT	EX	EXISTING	OL	OVERLOAD
A/C	AIR CONDITIONING	FCU	FAN COIL UNIT	OZ	OUNCE
A	AMPERES	FLR	FLOOR	P	POLE
ACCU	AIR COOLED CONDENSING UNIT	FPVAV	FAN POWERED VAV UNIT	PE	PNEUMATIC ELECTRIC
AF	AMPERES FUSED	FT	FOOT, FEET	PH	PHASE
AFC	ABOVE FINISHED COUNTER	FURN	FURNACE	PSI	POUNDS PER SQUARE INCH
AFF	ABOVE FINISHED FLOOR	G	GROUND	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
AIC	AMPERES INTERRUPTING CAPACITY	GFI	GROUND FAULT INTERRUPTING	PTAC	PACKAGED TERMINAL AIR CONDITIONER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HHWP	HEATING HOT WATER PUMP	RCPT	RECEPTACLE
ARCH	ARCHITECT	HO	HUB OUTLET	REV	REVOLUTIONS
AVG	AVERAGE	HOA	HAND-OFF-AUTOMATIC	RM	ROOM
B/I	BYPASS ISOLATION	HORIZ	HORIZONTAL	RPM	REVOLUTIONS PER MINUTE
BE	BOTTOM ELEVATION	HP	HORSEPOWER	RPS	REVOLUTIONS PER SECOND
BHP	BRAKE HORSEPOWER	HR	HOUR(S)	RTU	ROOFTOP UNIT
BLDG	BUILDING	HRTU	HEATING ONLY ROOFTOP UNIT	SF	SQUARE FOOT
BSMT	BASEMENT	HZ	HERTZ	SPEC	SPECIFICATION
BTUH	BRITISH THERMAL UNIT PER HOUR	ID	INSIDE DIAMETER	SQ	SQUARE
C	CONDUIT	IN	INCH, INCHES	ST	SHUNT TRIP
CB	CIRCUIT BREAKER	INT	INTERIOR	STD	STANDARD
CCW	COUNTERCLOCKWISE	INV	INVERT	SW	SWITCH
CH	CHILLER	K	KELVIN	TBI	TO BE INSTALLED
CHWP	CHILLED WATER PUMP	KW	KILOWATT	TBR	TO BE REMOVED
CLG	CEILING	LBS	POUNDS	TR	TO REMAIN
COMPR	COMPRESSOR	LTG	LIGHTING	TE	TOP ELEVATION
COND	CONDENSER	MAX	MAXIMUM	TEMP	TEMPERATURE
CONV	CONVECTOR	MBH	THOUSAND BTU PER HOUR	TF	TRANSFER FAN
CT	COOLING TOWER	MC	MECHANICAL CONTRACTOR	TRANS	TRANSITION
CU	CONDENSING UNIT	MCA	MINIMUM CIRCUIT AMPS	TYP	TYPICAL
CUH	CABINET UNIT HEATER	MCC	MOTOR CONTROL CENTER	UH	UNIT HEATER
CUV	CLASSROOM UNIT VENTILATOR	MFR	MANUFACTURER	UNO	UNLESS NOTED OTHERWISE
CW	CLOCKWISE	MIN	MINIMUM	UV	UNIT VENTILATOR
CWP	CONDENSER WATER PUMP	MISC	MISCELLANEOUS	V	VOLTS
DC	DIRECT CURRENT	MTD	MOUNTED	VAV	VARIABLE AIR VOLUME
DED	DEDICATED CIRCUIT	MV	MEDIUM VOLTAGE	VB	VACUUM BREAKER
DS	DISCONNECT SWITCH	NA	NOT APPLICABLE	VERT	VERTICAL
DWG	DRAWING	NEC	NATIONAL ELECTRIC CODE	VF	VENTILATION FAN
EA	EACH	NIC	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
EC	ELECTRICAL CONTRACTOR	NL	NON-LINEAR	W	WIRE/WATT
EF	EXHAUST FAN	NOM	NOMINAL	WP	WEATHERPROOF
EFF	EFFICIENCY	NTS	NOT TO SCALE	W/	WITH
EL	ELEVATION	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN	W/O	WITHOUT
ETR	EXISTING TO REMAIN				

LIGHTING SYMBOLS

	SURFACE MOUNTED 2'x4' FIXTURE
	SURFACE MOUNTED 2'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED MOUNTED 2'x4' FIXTURE
	RECESSED MOUNTED 2'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	SURFACE MOUNTED 1'x4' FIXTURE
	SURFACE MOUNTED 1'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED MOUNTED 1'x4' FIXTURE
	RECESSED MOUNTED 1'x4' EMERGENCY FIXTURE W/ BATTERY BACKUP
	SUSPENDED FIXTURE
	SUSPENDED EMERGENCY FIXTURE W/ BATTERY BACKUP
	SURFACE MOUNTED FIXTURE
	SURFACE MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	RECESSED MOUNTED FIXTURE
	RECESSED MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	POLE MOUNTED FIXTURE
	POLE MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	WALL MOUNTED FIXTURE
	WALL MOUNTED EMERGENCY FIXTURE W/ BATTERY BACKUP
	CEILING FAN/LIGHT COMBO
	EXHAUST FAN, VENT TO EXT.
	EXHAUST FAN LIGHT COMBO, VENT TO EXT.
	EXIT LIGHT FIXTURE, ARROWS & EXIT FACE AS INDICATED ON DRAWINGS (MOUNTING HEIGHTS TO BE DETERMINED BY JOB SPECIFICATIONS)
	SPOTLIGHT FIXTURE – DOUBLE OR SINGLE HEAD
	EMERGENCY BATTERY REMOTE LIGHTING HEADS. MOUNT +80" A.F.F.
	EMERGENCY BATTERY UNIT W/ LIGHTING HEADS. MOUNT +80" A.F.F.
	EMERGENCY BATTERY COMBINATION UNIT W/ LIGHTING HEADS. MOUNT +80" A.F.F.
	LIGHT TRACK, LENGTH AS INDICATED ON DRAWINGS W/ # OF LIGHTS INDICATED ON LIGHTING SCHEDULE
	IN-GROUND OR FLOOR MOUNTED FIXTURE
	SINGLE LUMINARE POLE MOUNTED SITE LIGHTING FIXTURE
	TWIN LUMINARE POLE MOUNTED SITE LIGHTING FIXTURE
	ROADWAY LUMINARE – COBRA HEAD

FIRE ALARM SYMBOLS

KB	KNOX BOX
PIV	POST INDICATOR VALVE
CR	CONTROL RELAY
F	HORN & STROBE
H	HORN UNIT ONLY
S	STROBE UNIT ONLY
F SP	SPEAKER & STROBE
F	MANUAL PULL STATION
FACP	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR – CEILING MOUNTED
	SMOKE DETECTOR – WALL MOUNTED
$_{A}$	AREA TYPE SMOKE DETECTOR USED @ DUCT WORK OPENING
$_{D}$	DUCT SMOKE DETECTOR W/ TWO AUXILIARY CONTACTS
$_{E}$	ELEVATOR RECALL W/ AUXILIARY CONTACTS
$_{SC}$	SELF CONTAINED SMOKE DETECTOR – SINGLE STATION TYPE
$_{V}$	SMOKE DETECTOR – VISUAL & AUDIBLE SIGNAL
RTS	REMOTE STATION FOR DUCT DETECTOR USED @ DUCT WORK OPENING
C	CARBON MONOXIDE DETECTOR, LINE VOLTAGE W/ BATTERY BACKUP
F	FLAME DETECTOR
H	AUTOMATIC HEAT DETECTOR
$_{HT}$	AUTOMATIC HEAT DETECTOR, "T" INDICATES FIXED TEMPERATURE 190°F
$_{FS}$	MOTOR OPERATED FIRE/SMOKE DUCT DAMPER

POWER SYMBOLS

	DUPLEX CONVENIENCE RECEPTACLE, 20A 115V WALL MOUNT DEVICE
	DBL. DUPLEX CONVENIENCE RECEPTACLE
	DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY/STANDBY CIRCUIT
	DBL. DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY/STANDBY CIRCUIT
J	JUNCTION BOX
T	THERMOSTAT

ELECTRICAL SWITCH SYMBOLS

$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$D	DIMMER SWITCH
$G	GLOW SWITCH TOGGLE, GLOWS IN OFF POSITION
$K	KEY OPERATED SWITCH
$LV	LOW VOLTAGE SWITCH
$WP	WEATHERPROOF SINGLE POLE SWITCH
M	OCCUPANCY SENSOR – WALL MOUNTED W/ OFF-AUTO OVERRIDE SWITCH
$_{P}$	OCCUPANCY SENSOR – CEILING MOUNTED "P" INDICATES MULTIPLE SWITCHES WIRED IN PARALLEL

SECURITY SYMBOLS

C	CCTV CAMERA "WP" INDICATES WEATHER-PROOF EXTERIOR CAMERA
CCTV	CCTV COAXIAL CABLE OUTLET & POWER OUTLET
MTV	CCTV MONITOR OUTLET
B	DOORBELL
B	DOOR BUZZER
B	DOOR CHIME
DR	ELECTRIC DOOR OPENER
ES	ELECTRIC DOOR STRIKE
IC	INTERCOM UNIT – FLUSH MOUNT
MI	MASTER INTERCOM & DIRECTORY UNIT
MD	MOTION DETECTOR
ML	SECURITY DOOR ALARM MAGNETIC LOCK
CR	SECURITY CARD READER. "WP" INDICATES WEATHER PROOF
SCP	SECURITY CONTROL PANEL
DC	SECURITY DOOR CONTACTS
	SECURITY PUSH BUTTON
K	SECURITY KEYPAD

POWER DISTRIBUTION SYMBOLS

	LIGHTING OR POWER DISTRIBUTION PANEL, RECESSED
	LIGHTING OR POWER DISTRIBUTION PANEL, SURFACE
	SERVICE DISCONNECT PANEL
	SERVICE METER
	SERVICE DISCONNECT SWITCH
	ELECTRICAL CIRCUITRY

COMMUNICATION SYMBOLS

	DATA OUTLET
	DATA OUTLET – FLOOR TYPE
	TELEPHONE/DATA OUTLET
	TELEPHONE OUTLET – WALL MOUNTED
	CALL IN SWITCH
TV	CABLE ANTENNA SYSTEM OUTLET (CATV)
$_{TV_M}$	MASTER ANTENNA SYSTEM OUTLET (MATV)
M	MICROPHONE OUTLET – FLOOR MOUNTED
M	MICROPHONE OUTLET – WALL MOUNTED
SP	SPEAKER – CEILING MOUNTED
SP	SPEAKER – WALL MOUNTED
	SPEAKER HORN

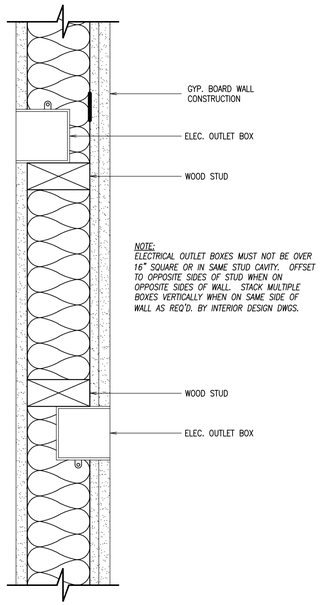
ELECTRICAL PLAN NOTES:

1. ALL ELECTRICAL WORK IS TO BE IN ACCORDANCE WITH THE INDIANA ELECTRICAL CODE 2009 EDITION (NFPA 70-2008) (675 IAC 17-1.5) EFFECTIVE 8/26/09.
2. ELECTRICAL WORK SHALL BE DONE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AS INCORPORATED BY THE INDIANA ELECTRICAL RULES.
3. EQUIPMENT FURNISHED FOR THIS JOB SHALL BE NEW & LISTED BY U.L.
4. ELECTRICAL CONTRACTOR SHALL PAY ALL FEES REQUIRED FOR ELECTRICAL WORK & ANY PERMITS NECESSARY TO PERFORM WORK.
5. COORDINATE ALL REVISIONS TO SERVICE ENTRANCE EQUIPMENT WITH DUKE ENERGY.
6. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL TEMPORARY LIGHTING & POWER AS REQUIRED FOR OTHER CONSTRUCTION TRADES PERFORMING WORK ON THE PROJECT.
7. WORK SHALL BE DONE IN STRICT COMPLIANCE WITH LAST PUBLISHED CODES AND STANDARDS AS LISTED BELOW AS EACH SHALL APPLY:
   A. INDIANA OSHA STANDARDS.
   B. NATIONAL ELECTRICAL CODE AS INCORPORATED INTO THE INDIANA ELECTRICAL RULES.
   C. NATIONAL ELECTRICAL MANUFACTURE'S ASSOCIATION.
   D. APPLICABLE CODES & STANDARDS INCLUDING STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, & NATIONALLY ACCEPTED CODES & STANDARDS.
9. FURNISH & INSTALL FIXTURES WHERE INDICATED ON THE DRAWINGS.
   A. RECEPTACLES: 1.5 AMPERE, 125 VOLT, HUBBELL #5252-I
   B. WALL SWITCHES: 20 AMPERE, 120 VOLT, HUBBELL #1201-I FOR 1 POLE; USE MATCHING FOR 3-WAY APPLICATIONS.
   C. GFI RECEPTACLES: 15 AMPERE, 125 VOLT, HUBBELL #GF-5252-I WITH A #PJ26 COVER PLATE FOR INDOORS AND A #WP-26 COVER PLATE FOR OUTDOORS.
   D. WP SWITCHES: 15 AMPERE, 125 VOLT, HUBBELL #5252-I WITH A #5206 WO COVER PLATE.
10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP. DEBRIS SHALL BE REMOVED DAILY, & THE SITE SHALL BE LEFT IN BROOM CLEAN CONDITION AT THE END OF THE PROJECT.
11. THE ELECTRICAL CONTRACTOR SHALL ACQUAINT HIMSELF WITH DETAILS OF THE WORK TO BE PERFORMED & TAKE NECESSARY STEPS TO INTEGRATE & COORDINATE WORK.
12. ALL DISTRIBUTION PANELS SHALL HAVE TYPE WRITTEN LABELS.
13. ELECTRICAL SUBCONTRACTOR TO COORDINATE W/ HVAC SUBCONTRACTOR FOR ALL ELECTRICAL REQUIREMENTS OF ACTUAL EQUIPMENT UTILIZED, INCLUDING HIGH & LOW VOLTAGE WIRING REQUIREMENTS, DISCONNECTS, ETC.
14. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE & INSTALL ALL ELECTRICAL REQUIREMENTS, INCLUDING CONDUIT, WIRE, CIRCUIT BREAKERS, DISCONNECTS, ETC, FOR MECHANICAL EQUIPMENT, SEE PLANS FOR MECHANICAL EQUIPMENT LOCATIONS.
15. SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP & CONNECTED TO THE SAME CIRCUIT. SMOKE ALARM PLACEMENT TO BE PER MFG.'S RECOMMENDATION W/ RESPECT TO PROXIMITY & DISTANCE FROM RETURN AIR REGISTERS.
16. PROVIDE 30A/2ø INSULATED & WEATHERPROOFED CONNECTION FOR ALL OUTDOOR CONDENSING UNITS & FUSES PER MFG.'S NAMEPLATE.
17. PROVIDE A GROUND FAULT CIRCUIT INTERRUPTER OUTLET (120V/20A) WITHIN TWENTY FEET OF ANY EXTERIOR CONDENSING UNIT AND WITHIN ALL HVAC ROOMS.
18. PROVIDE GROUND FAULT CIRCUIT INTERRUPTERS OUTLETS AT ALL BATH, KITCHEN, ROOFTOPS, AND OUTDOOR AREAS WITHIN SIX FEET OF ANY SINK.

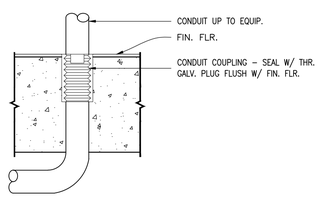
DEVICE MOUNTING HEIGHTS

- DEVICES FOR MECHANICAL EQUIPMENT MUST BE COORDINATED WITH EQUIPMENT REQUIREMENTS. ALL HEIGHTS ARE FROM FINISHED FLOOR OR FACE OR STUD TO CENTER OF DEVICE

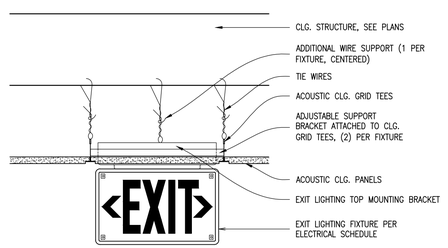
CONVENIENCE OUTLET	+18" AFF
DATA/COMMUNICATION OUTLET	+18" AFF
LIGHT SWITCH OR DIMMER	+44" AFF
DEVICES ABOVE COUNTERTOP	+44" AFF
EXIT LIGHT	+96" AFF
THERMOSTAT OR TEMPERATURE SENSOR	+48" AFF
FIRE ALARM PULL STATION	+48" AFF
FIRE ALARM HORN	+96" AFF
FIRE ALARM STROBE	+80" AFF
FIRE ALARM HORN/STROBE COMBO	+80" AFF
FIRE ALARM REMOTE ALARM LAMP	+96" AFF



C OUTLET DETAIL IN RATED WALL
3" = 1'-0"



B CONDUIT STUB-UP DETAIL
NOT TO SCALE



A EXIT LIGHT DETAIL
NOT TO SCALE

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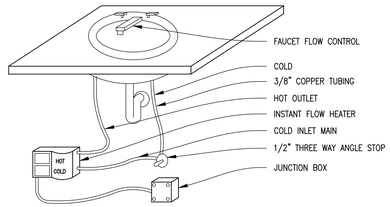
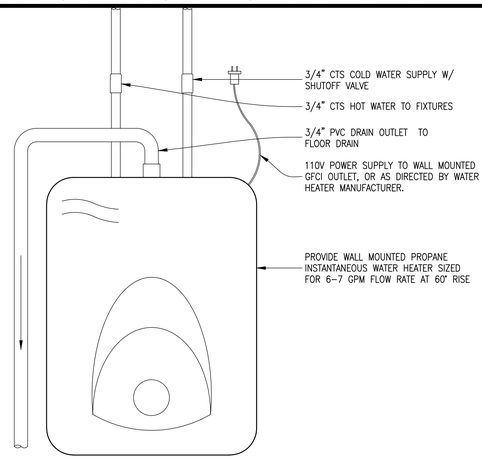
CHECKED BY	D. BRUCE

SHEET NAME
ELECTRICAL SYMBOLS AND ABBREVIATIONS

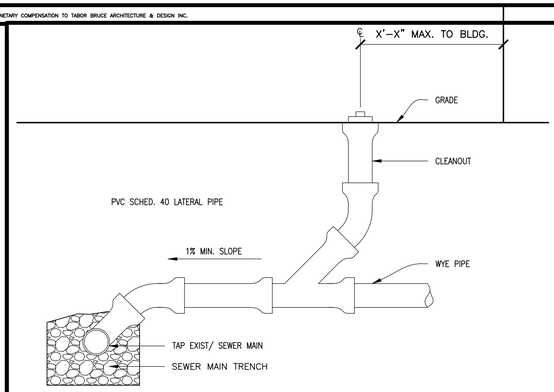
SHEET NO.
EL001



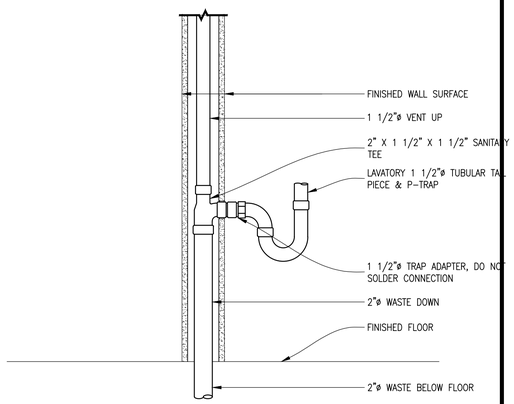
J INSTANTANEOUS WATER HEATER DETAIL
NOT TO SCALE



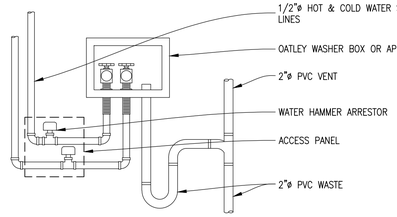
F INSTANTANEOUS WATER HEATER DETAIL
3" = 1'-0"



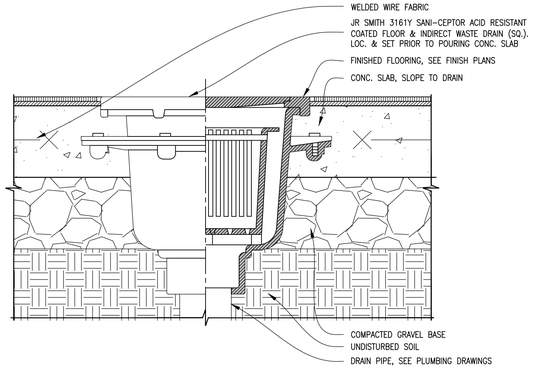
C SEWER LATERAL & CLEANOUT DETAIL
1" = 1'-0"



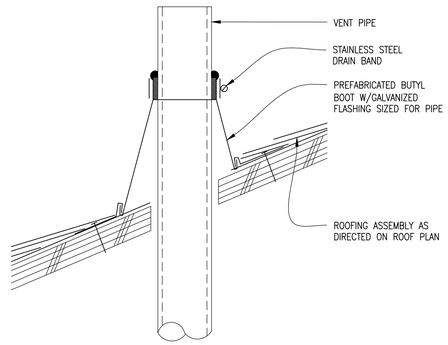
L TYPICAL SINGLE LAVATORY ROUGH-IN DETAIL
NOT TO SCALE



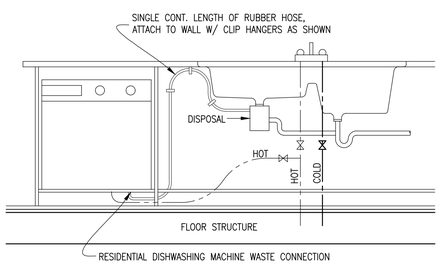
H WASHING MACHINE HOOK-UP
NOT TO SCALE



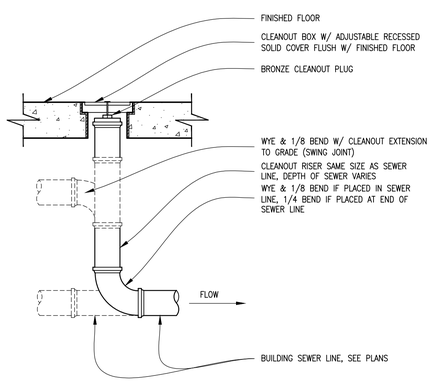
E JR SMITH 3161Y INDIRECT FLOOR DRAIN DETAIL
3" = 1'-0"



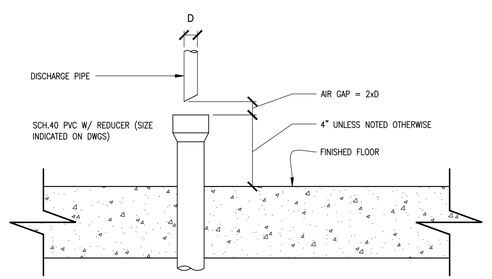
B ROOF VENT STACK DETAIL
1 1/2" = 1'-0"



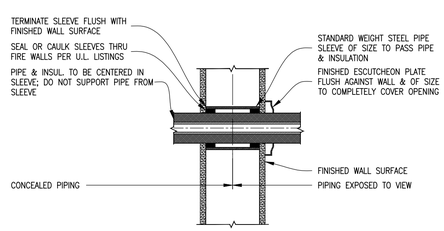
K TYPICAL DISHWASHER DETAIL
NOT TO SCALE



G INTERIOR CLEANOUT DETAIL
NOT TO SCALE



D HUB DRAIN DETAIL
NOT TO SCALE



A PIPE SLEEVE THRU INTERIOR WALL
NOT TO SCALE

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TELEPHONE: (812) 332-6258 WEB: WWW.TABORBRUCE.COM

REVISIONS

A NEW FIRE STATION FOR:
MONROE FIRE PROTECTION DISTRICT
STATION #26
478 E. CHAMBERS PIKE
BLOOMINGTON, INDIANA 47404

HOWARD DOUGLAS BRUCE
REGISTERED
NO. AR19900009
STATE OF INDIANA
ARCHITECT

PROJECT NO.	2921
DATE	MARCH 26, 2024
DRAWN BY	A. NOWLIN
CHECKED BY	D. BRUCE

SHEET NAME
PLUMBING DETAILS

SHEET NO.
PL501