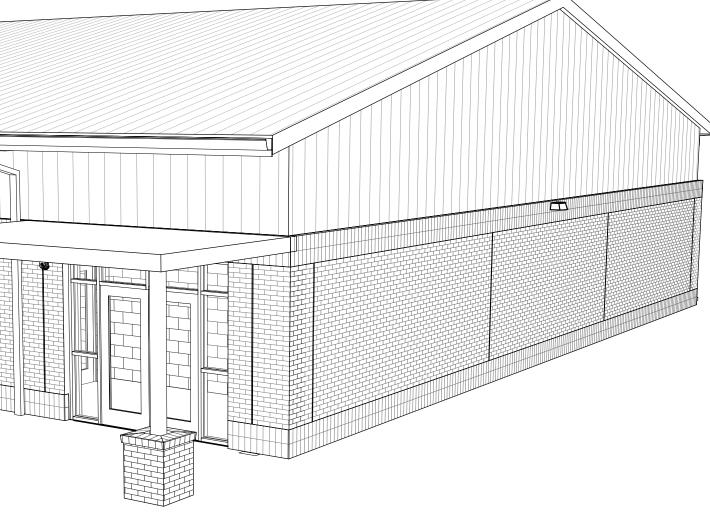
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

411 DOUGLAS LN CLINTON, TN 37716

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ABB	REVIATIO	NS:		VICINI	TY MAP:		
AFF ALT ALUM ARCH ACT ASPH BF BSMT BM BLDG BLK BRG CB CJ CHB CLG CLOS, CL CLR COL CONC CONC CONST CMU CT DTL D, DIA DN DWG DF DS EA EF ELEC EWC ELEV EXIST EXT	 ABOVE FINISH FLOOR ALTERNATE ALUMINUM ARCHITECTURAL ACOUSTICAL TILE CEILING ASPHALT BOTTOM FACE BASEMENT BENCH MARK BUILDING BLOCK BEARING CATCH BASIN CONTROL JOINT CHALK BOARD CEILING CLOSET CLEAR CONCRETE CONSTRUCTION CONCRETE MASONRY UNIT CERAMIC TILE DETAIL DIAMETER DOWN DRINK FOUNTAIN DOWNSPOUT EACH EACH FACE ELECTRIC ELECTRIC WATER COOLER ELEVATION EXISTING EXISTING EXTERIOR 	MTL MG MFR MIN MISC NIC NTS NO, # OC OD P LAS P LAM PLYWD PTD RAD;R RD REINF REQ'D RS RM RO SCHED SCWD SECT SHT SIM SPECS SQFT / SF STD STL STOR SD SUSP SQ TB T'HOLD	- METAL - MANUFACTURING - MANUFACTURER - MINIMUM - MISCELLANEOUS - NOT IN CONTRACT - NOT TO SCALE - NUMBER - ON CENTER - OUTSIDE DIAMETER - PLATE - PLASTIC - PLASTIC - PLASTIC LAMINATE - PLYWOOD - PAINTED - RADIUS - ROOF DRAIN - REINFORCING - REQUIRED - RISER - ROOM - ROUGH OPENING - SCHEDULE - SOLID CORE WOOD - SECTION - SHEET - SIMILAR - SPECIFICATIONS - SQUARE FEET - STORAGE - STORM DRAIN - SUSPENDED - SQUARE - TACK BOARD - THRESHOLD		PROJECT States of the Comparison of the Comparis		amont-
EJ FE FL FD FTNG GALV GA GYP HB HCWD HDW HGT HM ID IN INV JAN JST LAV Ib MH MAX	 EXPANSION JOINT FIRE EXTINGUISHER FLOOR FLOOR DRAIN FOOT FOOTING GALVANIZED IRON GAUGE GYPSUM HOSE BIB HOLLOW CORE WOOD HARDWARE HEIGHT HOLLOW METAL INSIDE DIAMETER INCH INVERT JANITOR JOIST LAVATORY POUND MANHOLE MAXIMUM MECHANICAL 	TLT TD, TDS TF TYP U VIF VS VOL VT VERT WSCT WC WH WPFG WF WDW WD W/ WWF WWM <i>L</i> @ C Ø	- TOILET - THREAD (S) - TOP FACE - TYPICAL - URINAL - VERIFY IN FIELD - VENT STACK - VOLUME - VINYL TILE - VERTICAL - WAINSCOT - WATER CLOSET - WATER CLOSET - WATER HEATER - WATER PROOFING - WIDE FLANGE - WINDOW - WOOD - WITH - WELDED WIRE FABRIC - WELDED WIRE MESH - ANGLE - AT - CHANNEL - DIAMETER		RIALS LE CONCRETE BLOCK BRICK METAL IN SECTION GYP. BOARD, PLASTER, OR CONCRETE IN PLAN AS NOTED	Second Second <td>RIGID INSULATION, EIFS AS NOTED PLYWOOD FINISH WOOD WOOD FRAMING</td>	RIGID INSULATION, EIFS AS NOTED PLYWOOD FINISH WOOD WOOD FRAMING

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PROJECT INFORMATION:

PROJECT DESCRIPTION A NEW 9,282 S.F. WELDING BUILDING AND AGRICULTURE FOR CLINTON HIGH SCHOOL.

 \cdots MAIN CAMPUS ADDRESS CLINTON HIGH SCHOOL 425 DRAGON DRIVE CLINTON, TN 37716 Mana Markan /3 JURISDICTION CITY OF CLINTON, TN CODES ENFORCEMENT

100 N. BOWLING STREET CLINTON, TN 37716 PHONE NUMBER (865) 259-1107 OR (865) 259-1108 **RESPONDING FIRE DEPARTMENT:**

JEFF LITTLE, FIRE CHIEF 100 N. BOWING STREET CLINTON, TN 37716 PHONE: 865-457-2131 EMAIL: JLITTLE@CLINTONTN.NET

DESIGN CODES 2018 INTERNATIONAL BUILDING CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL CODE 2018 INTERNATIONAL PLUMBING CODE

2012 INTERNATIONAL ENERGY CONSERVATION CODE 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE (ICC A117.12009) TYPE OF CONSTRUCTION: II-B, SPRINKLERED. EDUCATIONAL OCCUPANCY: NUMBER OF STORIES: 1 STORY

IECC CLIMATE ZONE: 4A, CLINTON, TENNESSEE

STATE DESIGN CODES 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL BUILDING CODE (EXCLUDING CHAPTER 11 AND SECTION 3411) 2017 NATIONAL ELECTRICAL CODE, NFPA 70 2012 INTERNATIONAL FIRE CODE 2012 INTERNATIONAL MECHANICAL CODE 2012 INTERNATIONAL PLUMBING CODE 2012 INTERNATIONAL FUEL GAS CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2012 NFPA - 101 LIFE SAFETY CODE

WOOD FRAMING

NOTE: WHERE THERE IS A DISCREPANCY BETWEEN THE STATE AND LOCAL BUILDING CODES, THE MORE STRINGENT REQUIREMENT SHALL APPLY

PROJECT DIRECTORY:

OWNER: ANDERSON COUNTY DR. TIM PARROTT - DIRECTOR 101 S. MAIN ST. CLINTON, TN 3771 865-463-2800

ARCHITECT:

MBI COMPANIES INC. VALERIE NIPPER 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999

SURVEYING: MCGREW ENGINEERING & SURVEYING ALEX MCGREW 353 CULLOM ST. CLINTON, TN 37716 865-457-1664

P.O. BOX 177

865-584-0999

LIST OF DRAWINGS:

SHEET #	DRAWING TITLE	REV #
NERAL	1	
00	COVER SHEET	3
	E ENGINEERING	
01		
02	OVERALL SITE PLAN	2
00	PHASE 1 EROSION PREVENTION & SEDIMENT CONTROL PLAN	1
01	PHASE 2 EROSION PREVENTION & SEDIMENT CONTROL PLAN	2
00	SITE DEMOLITION PLAN	1
00	SITE LAYOUT & UTILITY PLAN	2
00	SITE GRADING & DRAINAGE PLAN	2
00	CIVIL DETAILS	
01	CIVIL DETAILS	
02	CIVIL DETAILS	
03	CIVIL DETAILS	
00	LANDSCAPE PLAN	2
CHITECTUF	341	
0	GENERAL NOTES AND ACCESSIBILITY DETAILS	
D0 D1		3
D1	NOTED FLOOR PLANS	3
)2	DIMENSION FLOOR PLANS	
)2)1	DOOR SCHEDULE, DOOR/FRAME ELEVATIONS	1
)2	DOOR AND WINDOW DETAILS	1
)2)1	ROOF PLAN AND DETAILS	1
D1	EXTERIOR ELEVATIONS	3
D1	WALL SECTIONS	
02	WALL SECTIONS	1
D1	ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS	1
02	ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS	1
03	ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS	1
D1	REFLECTED CEILING PLAN AND DETAILS	
01	FLOOR FINISH PLAN	
)1)2	STRUCTURAL NOTES SPECIAL INSPECTIONS	
03	TYPICAL FOUNDATION AND SLAB ON GRADE DETAILS	
04	TYPICAL CMU DETAILS W/ HORIZONTAL JOINT REINFORCING	
01	FOUNDATION PLAN	3
01	FOUNDATION DETAILS	
01A 502	FOUNDATION DETAILS - WALL FOOTINGS ROOF FRAMING DETAILS - WOOD TRUSS ON CMU BEARING WALL	
CHANICAL		-
001	FIRE PROTECTION LEGENDS, SPECIFICATIONS, AND NOTES	
101	FLOOR PLAN - FIRE PROTECTION	1
201	FIRE PROTECTION DETAILS	
202	FIRE PROTECTION DETAILS	
01	HVAC LEGENDS, SPECIFICATIONS, AND NOTES	
01	FLOOR PLAN - HVAC	1
01	HVAC SCHEDULES	
01	HVAC DETAILS	1
01	PLUMBING LEGEND AND NOTES	_
01	FLOOR PLAN - SANITARY	
02	FLOOR PLAN - WATER	1
)3		
01		
01	PLUMBING DETAILS	1
ECTRICAL E	ENGINEERING	
01	FIRST FLOOR PLAN - LIGHTING	3
02	FIRST FLOOR PLAN - POWER	1
03	FIRST FLOOR PLAN - COMMUNICATION	1
)4	FIRST FLOOR PLAN - FIRE ALARM AND HVAC WIRING	1
01	LEGEND, SCHEDULES, DETAILS	1
02	PANELBOARD SCHEDULES, FEEDER DIAGRAM	1
03	DETAILS	1
	DETAILS	_

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STRUCTURAL ENGINEER MBI COMPANIES INC. NICK DEAL 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919

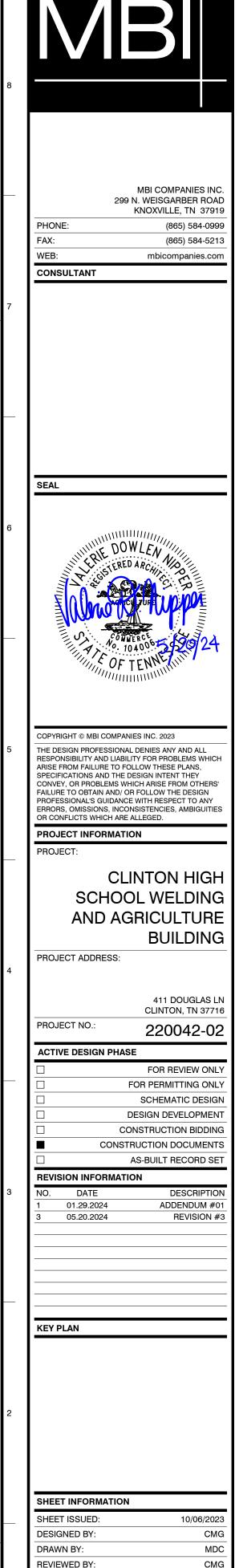
ELECTRICAL ENGINEER: VREELAND ENGINEERS INC. HAROLD DAMRON 3107 SUTHERLAND AVENUE KNOXVILLE, TN 37919 865-745-4402

GENERAL CONTRACTOR: GCE CONSTRUCTION TIMOTHY GAYLOR LAFOLLETTE, TN 37766

MOBILE: 423-494-1410 EMAIL: <u>tim@gceco.net</u>

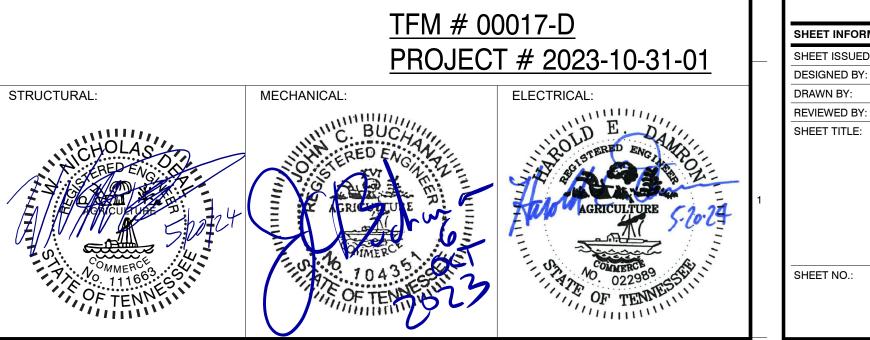
MECHANICAL ENGINEER MBI COMPANIES INC. JOHN BUCHANAN 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999

CIVIL ENGINEER: MBI COMPANIES INC. AWS AL HADEETHI 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999



COVER SHEET

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	ENERAL NOTES COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED
	BY A.G.C. OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR, 29 CFR 1926 OSHA.
2.	THE APPROPRIATE TRAFFIC CONTROL SIGNS AS DEFINED BY THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,
	F.H.W.A., 2009", SHALL BE INSTALLED AT THE INCEPTION OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS
	LONG AS THEY ARE NEEDED AND SHALL BE REMOVED IMMEDIATELY AFTER NEED. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR
	RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC.
	VERIFY THE LOCATIONS OF ALL PROPOSED ITEMS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY A/E IMMEDIATELY OF ANY DISCREPANCIES BEFORE STARTING WORK. COMMENCEMENT OF CONSTRUCTION AFTER SUCH
5.	DISCOVERY SHALL BE AT THE CONTRACTOR'S RISK. ANY AREA THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION DURING THE LIFE OF THE PROJECT SHALL BE
	EMOLITION NOTES DO ALL DEMOLITION WORK REQUIRED TO REMOVE EXISTING MASONRY WALLS, PAVING, FOUNDATIONS, CONCRETE
	SLABS, EXISTING UNDERGROUND PIPING, CONDUIT, BUILDING FINISHES, DOORS, WINDOWS AS SHOWN ON THE DRAWINGS AND ANY OTHER NECESSARY ITEMS TO INSTALL THE PROPOSED WORK.
2.	CONTRACTORS SUBMITTING PROPOSALS SHALL DETERMINE THE QUANTITIES OF DEMOLITION WORK REQUIRED BY
3.	FIELD INVESTIGATION OF THE BUILDING AND SITE. SUBMIT A DEMOLITION SCHEDULE TO THE PROJECT MANAGER PRIOR TO EXECUTION OF THE WORK. INDICATE
	PROPOSED METHODS AND SEQUENCE OF OPERATIONS. INCLUDE PROPOSAL FOR CONTROL OF DUST AND NOISE, AND COORDINATION FOR SHUT-OFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.
	MAINTAIN TEMPORARY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC. REMOVE BARRICADES WHEN NO LONGER REQUIRED.
	CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES
	WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATIVE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.
	EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING DEMOLITION OPERATIONS.
7.	DO NOT INTERRUPT EXISTING UTILITIES USED OR OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATIVE TEMPORARY SERVICES
	ACCEPTABLE TO GOVERNING AUTHORITIES. LOCATE, IDENTIFY, SHUT OFF, CAP AND DISCONNECT UTILITIES AT PROPERTY LINE OR VALVE AS REQUIRED.
	PROVIDE BY-PASS CONNECTIONS AS REQUIRED TO MAINTAIN SERVICES TO ADJACENT PROPERTIES AND FACILITIES. PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO PROPERTY OWNERS IF SHUT-DOWN OF SERVICES IS
	REQUIRED DURING THE CHANGE-OVER.
10.	COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK. REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH
11.	MATERIALS OFF-SITE. BURYING OR BURNING OF MATERIALS ON THE PROJECT SITE IS FORBIDDEN.
13.	AVAILABILITY FOR DEMOLITION MUST BE CONFIRMED BY OWNER JUST PRIOR TO DEMOLITION. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED.
	HISTORIC ARTIFACTS, INCLUDING CORNERSTONES, THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, ANTIQUES, AND OTHER ITEMS OF SIGNIFICANCE SHALL REMAIN THE PROPERTY OF THE OWNER. NOTIFY OWNERS
	REPRESENTATIVE IF SUCH ARTICLES ARE ENCOUNTERED. OBTAIN APPROVAL REGARDING METHOD OF REMOVAL. SALVAGE SUCH ARTICLES AND TURN OVER TO OWNER.
15.	IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH APPLICABLE REGULATIONS IN HANDLING, REMOVING, AND PROTECTING AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
	REGRADE ALL AREAS WHERE DEMOLITION HAS OCCURRED. PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADING, THERE SHALL NOT BE ANY VOIDS, PITS, OR MOUNDING OF EARTHWORK.
	WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE CUT IN A NEAT STRAIGHT LINE THROUGH PAVEMENT AND BASE. PROVIDE A SMOOTH TRANSITION.
2. 3.	INSTALL EXPANSION JOINT MATERIAL BETWEEN NEW AND EXISTING CONCRETE AND/OR ASPHALT. MAINTAIN AND PROTECT EXISTING PAVEMENT OR GRAVEL SURFACES WHICH ARE TO REMAIN. CONTRACTOR SHALL
4.	REPLACE DAMAGED AREAS, MATCHING DEPTH, MATERIAL AND GRADE OF EXISTING SURFACES. DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTER OF COLUMN, EDGE OF BUILDING EXTERIOR OR CENTER OF
5.	PAINTED STRIPES. SIDEWALK AND PAVING JOINTS ARE SHOWN FOR REFERENCE ONLY. REVIEW JOINT LAYOUT WITH ALL
0	SPECIFICATIONS AND DETAILS BEFORE POURING CONCRETE.
<u> </u>	BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PREPARED BY MCGREW ENGINEERING & SURVEYING,
2.	353 CULLOM ST., CLINTON, TN 37716. SURVEY RECEIVED 07/17/2023. Coordinates are in feet and reference to tennessee state plane system of 1983 .
3. 4.	BEARINGS SHOWN ARE BASED ON MAGNETIC NORTH. THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) .
	FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ON DRAWINGS ARE APPROXIMATE IN DEPTH AND LOCATION. REPAIR EXISTING UTILITIES DAMAGED DURING
~	CONSTRUCTION AT NO COST TO THE OWNER.
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	RADING NOTES
1	FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPANCIES.
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E. F. G. H. J. J. F. S. T. F. G. H. J. J. F. S. T. S. T. F. S. T. S. T. F. S. T.	 FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPARCIES. FIELD VERIFY MINIMUM SLOPE IS ANY CONSTRUCTION AND CONSTRUCTION AND CONFERENCE IN THE MINIMUM SLOPE IS PROJECT MANAGER OR ENGINEER OF ANY DISCREPARCIES. MANIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%. MAXIMUM LONGITUDINAL SIDEWALK CROSS SLOPE CANNOT EXCELS ON BUILDING AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE CANNOT EXCELD 2% IN ANY CROM BUILDING AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE CANNOT EXCELD 2% IN ANY CROM BUILDING AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED. MALES STHERWISE NOTED. ELEVATIONS SHOWN REPRESENT FINISHED GRADES. ADJUST FOR PAVEMENT THICKNESS. TOPSOL, ETC. ADJUST DRAINAGE STRUCTURE TOPS AS NECESSARY TO MATCH FINAL GRADES. NO SLOPE SHALL DE STEEPER THAN 2(H)(1) ALE ARTHWORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SUBSURFACE UNCLASSIFED. ODTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND SEALED BY AN ENGINEER, STATING THAT ALL ERATHWORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SUBSURFACE INVESTIGATION REPORT AND SOLIS ARE CAPABLE OF SUPPORTING THE STRUCTURE AND IMPROVEMENTS. SUBMIT SOLIS AMPLES FOR TESTING AS REQUIRED BY THE PROJECT GENTECHNICAL ENGINEER, SOLI EVC CANSTOT OF LEARN GRANULAR SOLIS CLAY SOLIS. OR SHALE SOLIS HAVING A PLASTICITY INDEX OF LESS THAN 36 AND A MINIMUM DEVIDENTY OF 90 FOUNDED ENGINEER FOOT THEST, CASTM ON ANY DIMENSION, DEBRIS AND OTHER STANDARD FROCTOR THEST, CASTM ON AS PLASTICUL AND ANY DIMENSION, DEBRIS AND DOTTOR TEST. SUBMIT SOLIS AMPLES FOR TESTING AS REQUIRED BY THE PROJECT GENTECHNICAL ENGINEER, SOLI FOR COMPACTED DOTTON HOLD AND AS PLACE CONSTOT OF 15 MAXIMUM DRY DENSITY PER STANDARD FROCTOR THEST, CASTM 36 AND A MINIMUM ONY DENSITY COMPACTED TO ANY MUNORDUCE CAST STRUCTURE AND DEVENTY WITH AS AND AS PRECED AND AS
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E. F. G. H. J.	THE UVERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPANCES. THE MINIMUM SLOPE FOR PARKING, SIDEWALKS, AND LANDSCHEPANCES. THE MINIMUM SLOPE FOR PARKING, SIDEWALKS, AND LANDSCHEPANCES. MAXIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%, MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE MINIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%, MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE MINIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%, MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE MINIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%, MAXIMUM LONGITUDINAL SIDEWALK CROSS SLOPE CANNOT EXCEED 2% IN ANY CASE. MINING SOTHERWISE NOTED. ELEVATIONS SHOWN REPRESENT FINISHED GRADES. ADJUST FOR PAVEMENT THICKNESS. TOYSOL. ETC. ADJUST DRAINAGE STRUCTURE TOPS AS INCECSSARY TO MATCH FINAL GRADES. MOSLOPE SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM: FOLLOW RECOMMENDATIONS OF THE PROJECT MANAGER. SOIL EXCAVATION SHALL BE CONSIDERED AS UNICLASSIFIED. ORTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND SEALED BY AN ENGINEER, STATING THAT ALL EARTHWORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SUBSURFACE INVESTIGATION REPORT AND SOILS ARE CAPABLE OF SUPPORTING THE STRUCTURE AND MEMOVENTS. SUBDIAT SOILS AMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. SOIL FOR COMPACTED BACKFILL AND ENGINEERED FILL SHALL CONSIST OF CLEAN GRANULAR. SUBURT SOILS, CHAY SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 38 AND A MINIMUM DENSITY OF 80 POUNDS PER OUBLIG FOR WHEN YOAVATED AT THE STRUCTURE AND MEMOVENTS. SUBDIATE SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 38 AND A MINIMUM DENSITY OF 80 POUNDS PER OUBLIG FOR WHEN CONTRACT TO ATHE STRUCTURE AND MEMOVENTS. SUBURT SOILS, CLAY SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 38 AND A MINIMUM DENSITY OF 80 POUNDS PER OUBLIG FOR WHEN CONTRACT TO ATHE STRUCTURE AND MEMOVENTS. SUBURT SOILS, CLAY SOULS,
2	THE UVERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROLECT MANAGER OR ENGINEER OF ANY DISCREPANCES. THE MINIMUM SLOPE FOR PARKING, SIEDWALKS, AND LANGSCAPED AREAS IS 1%, FIELD VERIFY MINIMUM SLOPE IS ACHIEVED. MIXIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%, MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE SIDEWALKS AWAY FROM BUILDING AT 1%, CROSS SLOPE CUNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE CANNOT EXCEOR 2% IN ANY CASE. UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN REPRESENT FINISHED GRADES, ADJUST FOR PAVEMENT THICKNESS. TOPSOL, ETC. ADJUST DRAINAGE STRUCTURE TOPS AS INCESSARY TO MATCH FINAL GRADES. NO SLOPE SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM: FOLLOW RECOMMENDATIONS OF THE PROJECT SUBSURFACE INVESTIGATION REPORT, REPORT ANY CONTRADICTIONS TO THE PROJECT MANAGER. SOIL EXCAVATION SHALL BE CONSIDERED AS UNCLASSIFED. OBTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND SALED BY AN ENGINEER, STATING THAT ALL EARTHWORK IS IN ACCORDANCE WITH THE CONTRAD TO CONTRADICTIONS TO THE PROJECT MANAGER. SOIL EXCAVATION SHALL BE CONSIDERED AS UNCLASSIFED. OBTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND THE STRUCTURE AND IMPROVEMENTS. SUBMIT SOIL SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. SUBMIT SOIL, SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. SUBMIT SOIL, SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. SUBMIT SOIL, SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. SUBMIT SOIL, SAMPLES FOR TESTING AS REQUIRED DETLE SHALL CONSIST OF CLARM GRANULLAR SOIL, SO COMPACTED DACKELLING AND PROCTOR TEST. (ASTM DA98) IMATERIAL SHALL BE FREE OF VEGETATION. ROCTS, ROCKS LARGER THAN 2'''IN ANY DIMENSION, DEBRISS AND OTHER DELETERIOUS MATERIALS, RESIDUAL SOIL SAVATED AT THE STEMAY BE USED FOR BACKFILL IF IT MEETS THE SPECIFICATION REQUIREMENTS. THE MOTORAL DATIONE PONTE CONTENT DETERMINED FORM THE STANDAD PROCTOR OTHAR COMPACTED OT TO REAS AREAS. ALL HANDS AS TO BENDING NOTE, ROCT

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OSION CONTROL NOTES NLESS SHOWN OTHERWISE, ALL DISTURBED AREAS NOT ULTIMATELY RECEIVII INIMUM DEPTH OF 5" OF TOPSOIL AND BE STABILIZED WITH GRASS. HE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS . OCAL, STATE AND FEDERAL REGULATIONS RELATED TO SITE GRADING, EROSIC TORMWATER RUNOFF.

- O LAND DISTURBANCE IS PERMISSIBLE UNTIL THE CONTRACTOR HAS SUBMITT ECEIVED A NOTICE OF COVERAGE FROM THE TENNESSEE DEPARTMENT OF EN DEC). COORDINATE WITH OWNER TO ENSURE THAT ALL NECESSARY PERMITS ISTURBANCE.
- NOTICE WILL BE POSTED BY NEAR THE CONSTRUCTION ENTRANCE BEFORE W A. A COPY OF THE NOC WITH THE TRACKING NUMBER ASSIGNED BY TDEC. B. THE NAME, COMPANY NAME, TELEPHONE NUMBER, EMAIL AND ADDRES INCLUDING A LOCAL CONTACT PERSON.
- C. A PROJECT DESCRIPTION JRNISH, ERECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEAS ENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION, ETAILS FOR SPECIFIC EROSION AND SEDIMENTATION CONTROL MEASURES. ROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THIS PLAN AR IODIFY AND ADD EROSION AND SEDIMENTATION CONTROL MEASURES DURING REVENT SEDIMENT FROM LEAVING THE SITE.
- NVIRONMENTAL PERMIT REQUIREMENTS: SHOW COMPLIANCE WITH ALL REQUI ERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AC CGP). PROVIDE ENGINEER AND TDEC WITH COPIES OF ALL REQUIRED PAPERW AINTENANCE, INSPECTIONS, RECORD KEEPING, AND REPORTING.
- ISPECTIONS WILL BE PERFORMED BY PERSONNEL CERTIFIED IN THE TDEC LEV ROOF OF INSPECTOR'S CERTIFICATION SHALL BE KEPT ON FILE AT THE JOBSITE AND OTHER REQUIRED PAPERWORK IDENTIFIED IN THE CGP. MAINTENANCE RE HALL BE ADDRESSED WITHIN 7 DAYS OR BEFORE THE NEXT RAIN EVENT. DOCI OMPLETED ON THE INSPECTION REPORT.
- IAINTAIN A RAIN GAUGE AND RAINFALL RECORDS ON SITE AS REQUIRED BY TDI ROSION AND SEDIMENTATION CONTROL IMPLEMENTATION: STAKE THE DISTURBED AREA LIMITS AND UNDISTURBED AREAS IN THE FIELI
- INSTALL CONSTRUCTION EXIT TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASUR DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UN PROPERTIES AND WALKWAYS, ACCORDING TO THE SITE EROSION AND SED WELL AS THE CGP.
- BEGIN SITE GRADING
- VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS TREE- OR PLANT- PRO INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFE SEDIMENTATION FROM THE PROJECT SITE DURING THE COURSE OF THE PR APPROPRIATE PERMITS TO ACCESS AREAS OUTSIDE THIS SITE.
- AFTER FINAL STABILIZATION OF THE SITE, REMOVE EROSION AND SEDIMEN STABILIZE AREAS DISTURBED DURING REMOVAL.
- STORMWATER CONTROL: COMPLY WITH REQUIREMENTS OF AUTHORITIES I BARRIERS IN AND AROUND EXCAVATIONS AND SUBGRADE CONSTRUCTION STORMWATER FROM HEAVY RAINS.
- PROJECT MANAGER OR ENGINEER MAY DIRECT CONTRACTOR TO LIMIT SUF MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW OPERATIONS AND MAY DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERI CONTROL MEASURES.
- PROVIDE PERMANENT EROSION CONTROL MEASURES AT EARLIEST PRACTI REQUIREMENT FOR TEMPORARY EROSION CONTROLS. PERMANENTLY SEE EXCAVATION PROCEEDS.
- MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY CONTROL PROJECT MANAGER OR ENGINEER TO CONTROL SILTATION AT ALL TIMES MAINTENANCE OR ADDITIONAL WORK DIRECTED BY ENGINEER WITHIN 48 H ROSION CONTROL SHALL BE MAINTAINED UNTIL PAVING IS COMPLETED AND I ROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION ANI FE OF THE PROJECT UNTIL A NOTICE OF TERMINATION IS FILED WITH TDEC. CO
- NGINEER AND OWNER FOR APPROVAL TO FILE A NOTICE OF TERMINATION AT TABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE IN PORTIO CTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR F ONSTRUCTION SITE (OR PHASE OF THE PROJECT) MUST BE COMPLETED NO LA ONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR EEPER THAN 3:1 SHALL BE STABILIZED NOT LATER THAN 7 DAYS AFTER CONS EMPORARILY OR PERMANENTLY CEASED. PERMANENT STABILIZATION WITH F RMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPOR RACTICABLE. UNPACKED GRAVEL CONTAINING FINES OR CRUSHER RUNS WIL URFACE.
- ALL WATER DISCHARGED FROM EXCAVATIONS AND TEMPORARY SEDIMENT PO EDIMENT CONTROLS ACCEPTABLE TO TDEC AS WELL AS THE LOCAL AUTHOR NLESS OTHERWISE NOTED, RIP-RAP SHALL BE T.D.O.T. MACHINED CLASS A-1 \ ' THICK AND SHALL BE UNDERLAIN WITH A NON-WOVEN GEOTEXTILE FABRIC.
- DNCRETE WASHOUT AREA SHALL BE IN CONFORMANCE WITH STANDARDS OF ERMITTING AUTHORITY HAVING JURISDICTION.
- I THE END OF THE PROJECT, DURING FINAL SITE STABILIZATION, DEWATER TEI
- I CONFORMANCE WITH STANDARDS OF TDEC, AS WELL AS THE LOCAL PERMIT EMOVE ALL TEMPORARY EROSION CONTROLS AT THE END OF THE PROJECT AN OTICE OF TERMINATION, AT THE APPROPRIATE TIME, WITH AUTHORITY HAVING
- ONTRACTOR COORDINATE WITH ENGINEER AT BEGINNING OF LAND DISTURBA AN INITIAL SITE ASSESSMENT INSPECTION BY THE ENGINEER IS REQUIRED. IF RE VSPECTION BY THE ENGINEER MUST BE PERFORMED WITHIN 1 MONTH OF STAR NGINEER A MINIMUM OF 1 WEEK NOTICE IN SCHEDULING SITE ASSESSMENT IN

ILITY NOTES

- COORDINATE WITH EXISTING UTILITIES AND STORM SEWER INSTALLATION TO INSTALLATION AND MATERIAL SHALL MEET THE REQUIREMENTS OF CLINTON CLINCH UTILITY DISTRICT AND ALL APPLICABLE CODES. COORDINATE WIT POWELL CLINCH UTILITY DISTRICT PRIOR TO CONSTRUCTION TO DETER TESTING AND INSPECTION REQUIREMENTS. VERIFY LOCATION AND ELEVATIO
- CONSTRUCTION. PAVEMENT REPAIR AND TRAFFIC CONTROL SHALL MEET THE REQUIREMENTS JURISDICTION.
- COORDINATE LOCATION OF GAS LINE TO AVOID CONFLICTS WITH OTHER UTILI SERVICE SHALL MEET THE REQUIREMENTS OF POWELL CLINCH UTILITY D
- CLINCH UTILITY DISTRICT AND COORDINATE INSTALLATION.
- GAS METER AND SUPPLY LINE SHALL BE SIZED AND INSTALLED BY **POWELL** THE LOADS SHOWN ON THE PLUMBING DRAWINGS. PROVIDE 4" SLEEVE UNDE IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL PEF WORK IN THE PUBLIC R.O.W. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- WITH CLINTON UTILITY BOARD TO ESTABLISH WATER AND SEWER SERVI PROVIDE 10' MIN. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LI PROVIDE 18" MIN SEPARATION BETWEEN WATER AND SEWER LINES. PROVIDE SEWERS AND OTHER UTILITIES. UNLESS OTHERWISE NOTED PROVIDE 3' MINI PROVIDE #57 STONE BEDDING AND BACKFILL TO SUBGRADE FOR ALL UTILITIES ADJUST ALL EXISTING UTILITY STRUCTURES, WHETHER SPECIFICALLY INDICA
- MATCH FINAL GRADES. ADJUSTMENTS SHALL MEET THE REQUIREMENTS OF C POWELL CLINCH UTILITY DISTRICT.
- COORDINATE WITH CLINTON UTILITY BOARD & POWELL CLINCH UTIL ABANDON EXISTING UTILITIES, WHETHER SPECIFICALLY INDICATED ON THE DR WITHIN THE PROJECT LIMITS AND NO LONGER IN USE.
- UNLESS OTHERWISE NOTED, ALL SANITARY SEWER PIPE AND FITTINGS SHALL REQUIREMENTS OF ASTM D 3034. USE SDR 35 UNLESS OTHERWISE SPECIFIED REQUIREMENTS OF ASTM D 3311 AND ASTM D 2665. PIPE SHALL HAVE AN INTE WHICH HAS BEEN REINFORCED WITH A STEEL RING, BAND, OR OTHER RIGID M THE GASKET IN PLACE. THE JOINT SHALL MEET THE REQUIREMENTS OF ASTM
- LOCK-IN TYPE GASKET, REIBER TYPE OR APPROVED SUBSTITUTE, MEETING T UNLESS OTHERWISE NOTED, MINIMUM SLOPE SHALL BE 2.0% FOR 4" LINE AND UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL BE AWWA C900 PVC (CL PUSH-ON TYPE JOINTS. JOINTS SHALL CONSIST OF COMPACT PATTERN DUCT REQUIREMENTS OF AWWA C 153 WITH RUBBER GASKETS MEETING THE REQUI
- INSTALLATION SHALL COMPLY WITH UL 1285. ALL FIRE WATER LINES SHALL BE CLASS 350 DUCTILE IRON WITH PUSH-ON TY AWWA C151 AND CEMENT - MORTAR LINING SHALL COMPLY WITH AWWA C104. AWWA C600.
- FIRE LINE SIZE SHALL BE VERIFIED BY SPRINKLER CONTRACTOR. CERTIFIED (TO THE OWNER. SEE THE FIRE PROTECTION PLAN FOR FURTHER REQUIREME STARTING FROM THE POINT OF SERVICE MUST BE INSTALLED BY A TENNESSE CONTRACTOR.
- ALL WATER LINE MATERIALS SHALL BE LEAD FREE.

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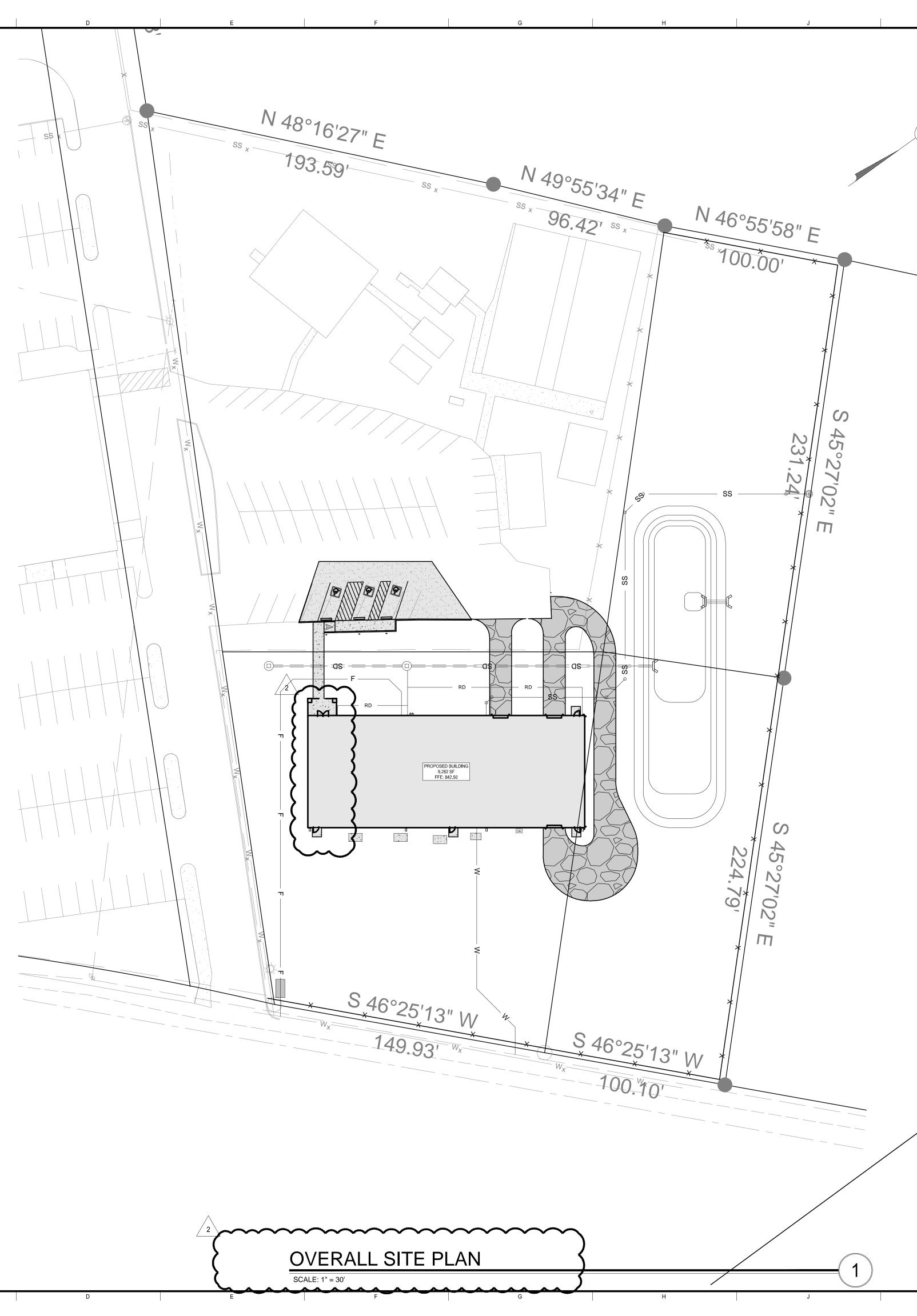
E IVING A HARD SURFACE SHALL HAVE A		TIONS EVIATIONS MAY NOT APPLY TO THIS PROJECT	EXISTING	LEGEND
S AND COMPLYING WITH ALL APPLICABLE	@ &	AT AND	P/E	EASEMENT
SION AND SEDIMENTATION CONTROL, AND	∝ AASHTO ADA	AND AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS AMERICANS WITH DISABILITIES ACT	R/W	RIGHT-OF-WAY
IITTED A SIGNED NOTICE OF INTENT AND ENVIRONMENT AND CONSERVATION IITS HAVE BEEN RECEIVED PRIOR TO LAND	APP'D APPROX. OR ~	APPROVED APPROXIMATE	PL	PROPERTY LINE
E WORK BEGINS CONTAINING:	ASCE ASPH.	AMERICAN SOCIETY OF CIVIL ENGINEERS ASPHALT	2010 2011	MAJOR CONTOUR MINOR CONTOUR
EC. RESS OF THE PROJECT SITE OPERATOR	ASTM AWWA	AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WATER WORKS ASSOCIATION	SS _x	SANITARY SEWER
	B/C BLDG.	BACK OF CURB BUILDING	G	GAS PIPING
EASURES IN CONFORMITY WITH THE N, AS PREPARED BY TDEC. SEE PLAN AND	BLVD. BM	BOULEVARD BENCHMARK	W _x	WATER LINE OVERHEAD UTILITIES
ARE A MINIMUM REQUIREMENT. MAINTAIN,	B/W	BOTTOM OF WALL	UE x	ELECTRIC (UNDERGROUN
ING CONSTRUCTION AS NECESSARY TO	∆ CB	CURVE DELTA ANGLE CATCH BASIN	UT _X	TELEPHONE/COMM.
ACTIVITIES CURRENTLY ADOPTED BY TDEC RWORK. PERFORM AND PROVIDE ALL	CFS CGP	CUBIC FEET PER SECOND CONSTRUCTION GENERAL PERMIT	SD _x	STORM SEWER
EVEL 1 EROSION CONTROL COURSE.	CI C CMP	CURB INLET CENTERLINE CORRUGATED METAL PIPE		FIRE SUPPRESSION LINE
SITE ALONG WITH ALL INSPECTION REPORTS REPAIR NEEDS IDENTIFIED BY INSPECTIONS	CMU C.U.B.	CONCRETE MASONRY UNIT CLINTON UTILITIES BOARD		FORCE MAIN
OCUMENT WHEN MAINTENANCE ITEMS ARE	C.O. CONC.	CLEANOUT CONCRETE		SILT FENCE REINFORCED SILT FENCE
TDEC. TIELD BEFORE BEGINNING WORK	CONT.	CONTINUOUS		CONSTRUCTION LIMITS
URES TO PREVENT SOIL EROSION AND	° DCB	DEGREES DOUBLE CATCH BASIN		SETBACK
UNDISTURBED AREAS AND TO ADJACENT SEDIMENTATION CONTROL DRAWINGS AS	DIA. OR Ø DIP DWC	DIAMETER DUCTILE IRON PIPE		EXISTING TO BE REMOVEI DRAINAGE SWALE
	DWG. E	DRAWING EAST		CHECK DAM
EAS OR GENERATED BY PROTECTION ZONES.	EA. E.F.	EACH EACH FACE		DIVERSION DITCH
ROL MEASURES DURING ED.	EIP EL. OR ELEV	EXISTING IRON PIPE ELEVATION		TUBES AND WATTLES
ECTED BY EROSION AND PROJECT. OBTAIN PERMISSION AND	EOP EPA	EDGE OF PAVEMENT ENVIRONMENTAL PROTECTION AGENCY		CURBLINE
IENTATION CONTROLS AND RESTORE AND	ETC. E.W.	ET CETERA EACH WAY		BUILDING
ES HAVING JURISDICTION. PROVIDE ION TO PREVENT FLOODING BY RUNOFF OF	EX. OR EXIST.		X	FENCE
SURFACE AREA OF ERODIBLE EARTH	F/C FFE FIN.	FACE OF CURB FINISHED FLOOR ELEVATION FINISHED		VEGETATION
OW AND EMBANKMENT PERMANENT OR TEMPORARY POLLUTION	FIN. FP FT.	FIRE PROTECTION FEET		SEWER MANHOLE
CTICAL TIME TO MINIMIZE	GC	GENERAL CONTRACTOR	GT	GREASE TRAP
	GI GPM	GRATE INLET GALLONS PER MINUTE	JB	JUNCTION BOX
NTRACTOR AS DIRECTED BY S THROUGHOUT WORK. PROVIDE 18 HOURS OF NOTIFICATION BY ENGINEER.	GV	GAS VALVE	СВ	CATCH BASIN
D LAWNS HAVE BEEN ESTABLISHED. AND SEDIMENT DAMAGE THROUGHOUT THE	H HDPE	HORIZONTAL HIGH DENSITY POLYETHYLENE	CB	CURB INLET
CONTRACTOR COORDINATE WITH THE AT THE APPROPRIATE TIME.	HP HP HDPE HWY.	HIGH POINT HIGH PERFORMANCE HIGH DENSITY POLYETHYLENE HIGHWAY		THROATED INLET
TIONS OF THE SITE WHERE CONSTRUCTION R PERMANENT SOIL STABILIZATION AT THE	ID	INSIDE DIAMETER OR INLINE DRAIN	Ô	CLEAN OUT
LATER THAN 14 DAYS AFTER THE DR PERMANENTLY CEASED. SLOPES	IN. INV.	INCH(ES) INVERT		HEADWALL
NSTRUCTION ACTIVITY ON THE SLOPE HAS	IPF	IRON PIN FOUND	XXX.XX $ imes$	SPOT GRADE
ORARY MEASURES AS SOON AS WILL NOT BE CONSIDERED A NON-ERODING	JB			OUTFALL
PONDS SHALL BE FILTERED USING DRITY HAVING JURISDICTION.	L LBS. LF	LENGTH POUNDS LINEAR FEET		
-1 WITH A MEDIAN RIP-RAP SIZE D50 OF 6", C.	MAX.	MAXIMUM		TEMP. CONSTRUCTION E
OF TDEC, AS WELL AS THE LOCAL	MH MIN.	MANHOLE MINIMUM		THRUST BLOCK
TEMPORARY SEDIMENT PONDS AND TRAPS MITTING AUTHORITY HAVING JURISDICTION.	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	×	WATER VALVE
T AND COORDINATE WITH OWNER TO FILE NG JURISDICTION.	N N/A	NORTH NOT APPLICABLE	M	WATER METER
BANCE TO DETERMINE WHETHER OR NOT F REQUIRED, THE SITE ASSESSMENT TARTING CONSTRUCTION. ALLOW	NFPA NIC NIP	NATIONAL FIRE PROTECTION AGENCY NOT IN CONTRACT NEW IRON PIN	PIV	POST INDICATOR VALVE
TINSPECTIONS.	NO. OR #		(F)	FIRE HYDRANT
	NPDES N.T.E.	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM NOT TO SCALE		FIRE DEPARTMENT CONN
TO AVOID CONFLICTS . UTILITY ON UTILITY BOARD & POWELL WITH CLINTON UTILITY BOARD &	O.C.	ON CENTER		IRRIGATION VALVE
TERMINE MATERIAL, INSTALLATION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		GAS VALVE
ITS OF THE AGENCY HAVING	PIV POB POE	POST INDICATOR VALVE POINT OF BEGINNING (ALIGNMENT) POINT OF ENDING (ALIGNMENT)	GM	GAS METER
ITILITIES. CONNECTION TO EXISTING GAS	PDE PP PSI	POWER/UTILITY POLE POUNDS PER SQUARE INCH	EV	ELECTRICAL VAULT
Y DISTRICT. CONTACT POWELL	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT	EM	ELECTRIC METER
LL CLINCH UTILITY DISTRICT FOR IDER PAVED AREAS.	Q1	1 YEAR STORM PEAK FLOW	E	ELECTRICAL BOX
PERMITS AND LICENSES REQUIRED TO OR ALL TAP FEES AND COORDINATION RVICE.	Q10 QLP	10 YEAR STORM PEAK FLOW QUALIFYING LOCAL PROGRAM	> GW	GUY WIRE
RINEL. LINES. WHERE CROSSINGS OCCUR, IDE 6" MIN. CLEARANCE BETWEEN STORM	R RCP	RADIUS REINFORCED CONCRETE PIPE	¢	LIGHT STANDARD
IINIMUM COVER FOR ALL UTILITIES. TIES LOCATED IN PAVED AREAS.	RD REF.	ROAD REFERENCE	T	TELEPHONE PEDESTAL
ICATED ON THE DRAWINGS OR NOT, TO F CLINTON UTILITY BOARD &	REQ'D REV.	REQUIRED REVISION	۵	BOLLARD
TILITY DISTRICT TO REMOVE OR	R.O.W.	RIGHT-OF-WAY		SLOPE DRAIN
E DRAWINGS OR NOT, THAT ARE LOCATED	S SAN.	SOUTH SANITARY		SLOPE MATTING
IED. FITTINGS SHALL MEET THE	SCH. SD	SCHEDULE STORM DRAIN		TEMPORARY STABILIZATIO
D MATERIAL THAT PERMANENTLY LOCKS	SDR SF SPAP	STANDARD DIMENSION RATIO SQUARE FEET SPECIAL POLLUTION ABATEMENT PERMIT		CONCRETE WASHOUT
G THE REQUIREMENTS OF ASTM F-477. ND 1.0% FOR 6" LINES.	SQ. ST.	SQUARE STREET		FILTER RING
(CLASS 200) WITH BELL END FOR JCTILE IRON FITTINGS MEETING THE	STA. SS	STATION SANITARY SEWER	•	BENCHMARK
QUIREMENTS OF AWWA C 111. TYPE JOINTS. PIPE SHALL COMPLY WITH	SSFM SWPPP	SANITARY SEWER FORCE MAIN STORM WATER POLLUTION PREVENTION PLAN	\bigtriangleup	CONTROL POINT
104. INSTALLATION SHALL COMPLY WITH	TBM	TEMPORARY BENCH MARK		
D CALCULATIONS SHALL BE SUBMITTED MENTS. ALL FIRE PROTECTION PIPING	TDEC T.D.O.T. THK.	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION TENNESSEE DEPARTMENT OF TRANSPORTATION THICK		
SSEE REGISTERED SPRINKLER	TC T/C	TOP OF CASTING TOP OF CURB ELEVATION		
	TP T/W	TOP OF PAVEMENT ELEVATION TOP OF WALL		
	TYP.	TYPICAL		
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	W W/ WS	WEST WITH WATER SURFACE		
	WS WV W.W.F.	WATER SURFACE WATER VALVE WELDED WIRE FABRIC		
	W.W.M.	WELDED WIRE MESH		
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E	F	G	A	

	J		к	L		MTHESE PLA	NS	AND SPECIFICATIONS	
	EXISTING	LEGEND	PROPOSED	PROPERTY	Y INFORMATION	ARE REQU	RE	D TO BE KEPT ON THE	
	— — — — P/E —	EASEMENT	- <u> </u>	OWNER		JOB SITE UN	ITI		
-	R/W		R/W	NAME: ADDRESS:	DR. TIM PARROT, DIRECTO 100 N MAIN ST.		ION	LEORVIS ISSUED BY	
-	PL	PROPERTY LINE	PL		CLINTON, TN 37716		THI	S OFFICE.	
	2010		2010	PROPERTY DAT		No altoret	8	for the second second second second	
-				ADDRESS:	411 DOUGLAS LN. CLINTON, TN 37716	modifications	ons	a deletions, additions or DENGINEERIC are allowed to this	
-	SS _x	SANITARY SEWER	G	MAP:	074P		etw	ithout written permission	
-		WATER LINE		PARCEL ID: ZONING:	008.00 R-1		oft	his office.	
-	OU _x	OVERHEAD UTILITIES	OU	VERTICAL DATU	JM: NAVD 88	TENNNESSEE	STA	TE FIRE MARSHALL'S OFFICE	
-	UE _x	ELECTRIC (UNDERGROUND)	UE	SETBACKS:	30' FRONT			299 N. WEISGARBER ROAD KNOXVILLE, TN 37919	
-	UT _X		T		25' REAR 10' SIDE			PHONE: (865) 584-0999	
-	SD _x	STORM SEWER	SD					FAX: (865) 584-5213 WEB: mbicompanies.com	
		FIRE SUPPRESSION LINE	F					CONSULTANT	
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	XXX.XX $ imes$	SPOT GRADE	XXX.XX —					PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.	#
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								DRAWN BY:I.A.J.REVIEWED BY:A.M.A.	
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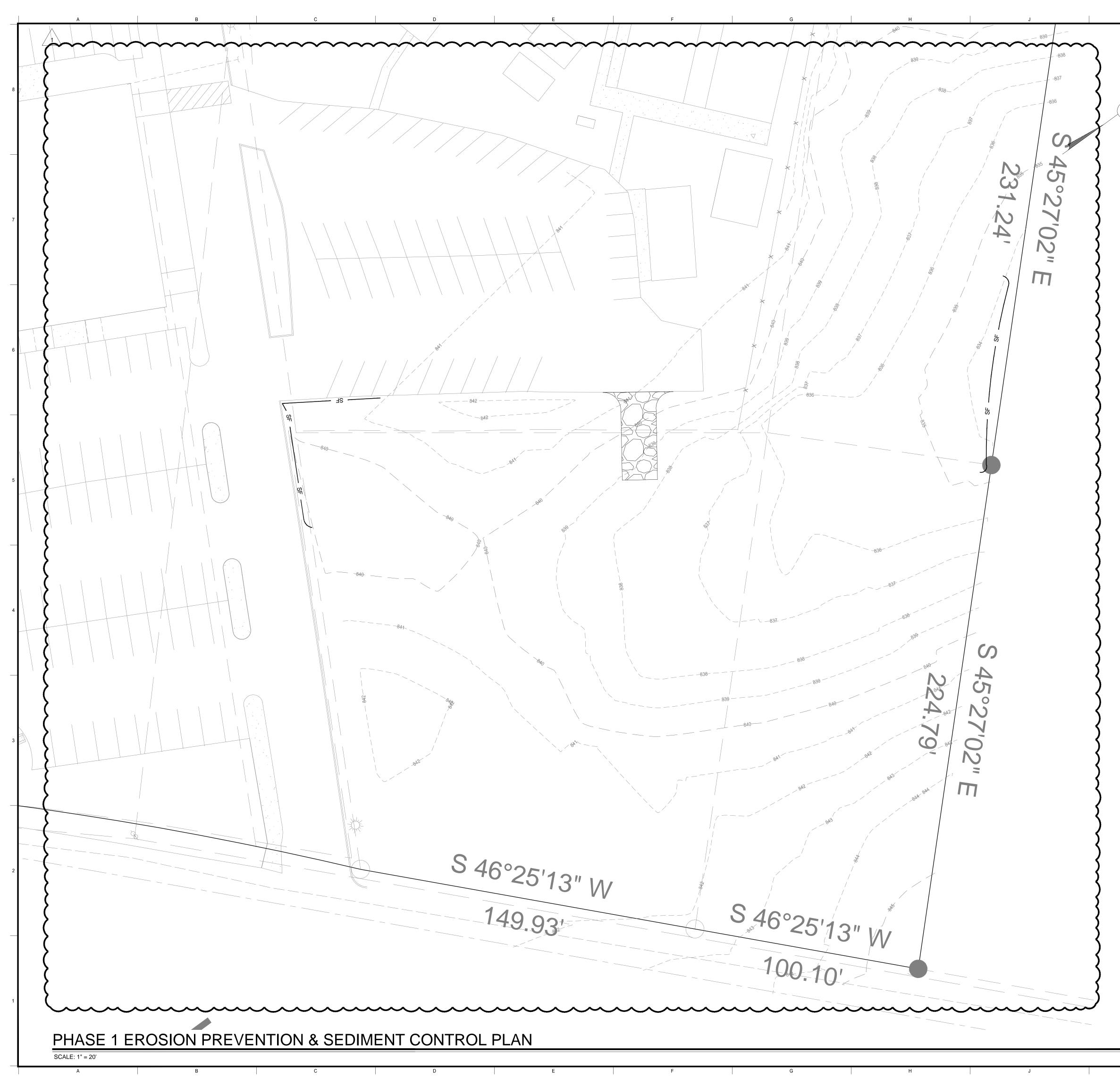


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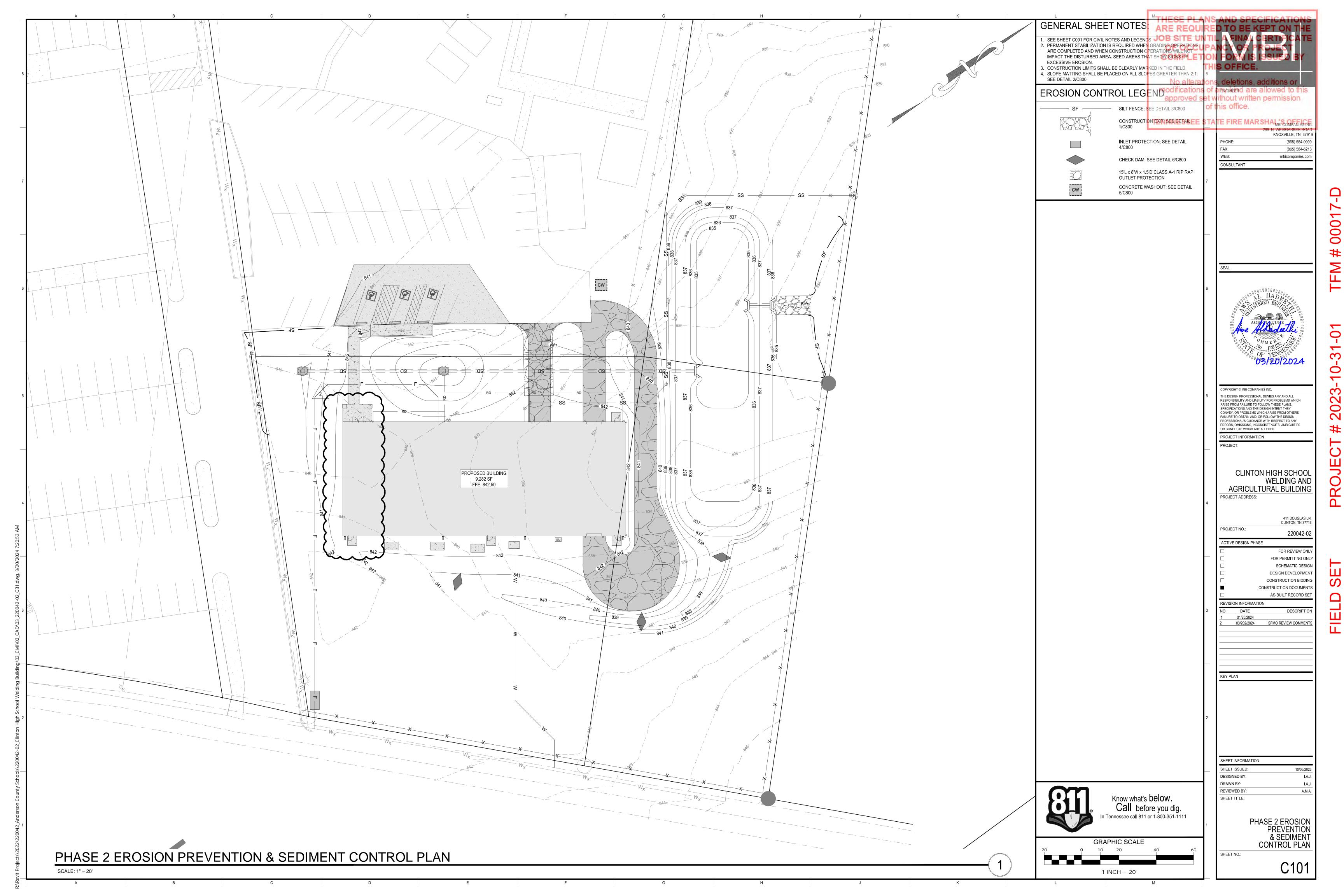


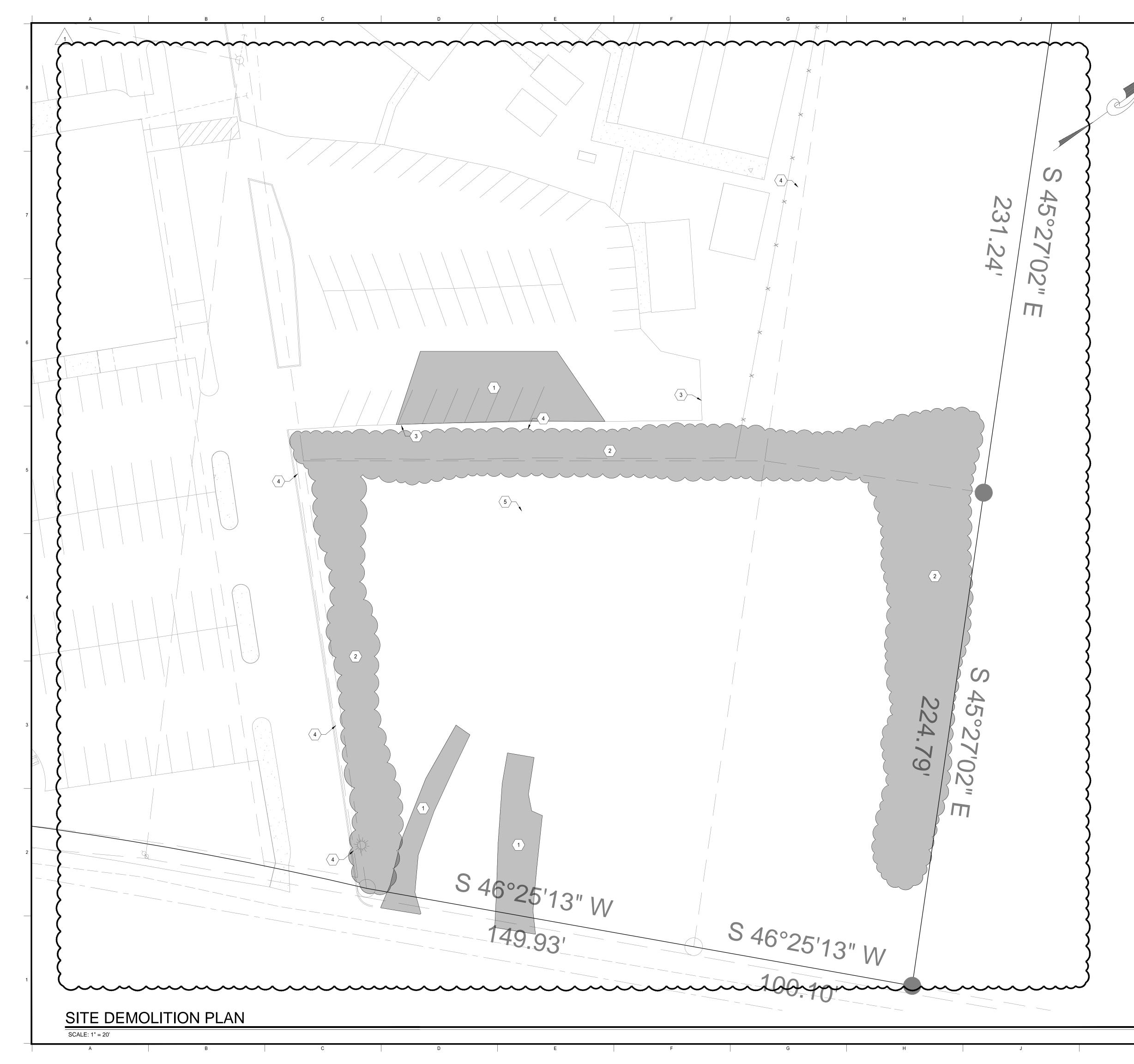
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			oft	his office.
		TENNNESSEE	STA	TE FIRE MAR SHA MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919
				PHONE: (865) 584-0999 FAX: (865) 584-5213
				WEB: mbicompanies.com CONSULTANT
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			5	COPYRIGHT © MBI COMPANIES INC. THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH
				ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN
				PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
				PROJECT INFORMATION PROJECT:
				CLINTON HIGH SCHOOL WELDING AND
			4	AGRICULTURAL BUILDING PROJECT ADDRESS:
				411 DOUGLAS LN. CLINTON, TN 37716
				PROJECT NO.: 220042-02
				ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY
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			1 1	MBI COMPANIES INC. 299 N. WEISGARBER ROAD
			7	KNOXVILLE, TN 37919 PHONE: (865) 584-0999 FAX: (865) 584-5213 WEB: mbicompanies.com CONSULTANT CONSULTANT
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			5	COPYRIGHT © MBI COMPANIES INC. THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION
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T PROJECT # 2023-10-31-01 TF





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	3 EXISTING CONCRETE CURB TO BE DEMOLI	SHED		KNOXVILLE, TN 37919 PHONE: (865) 584-0999 TAX (205) 594-5940
	4 EXISTING CHAIN LINK FENCE WITH BARBED	O WIRE TO BE		FAX: (865) 584-5213 WEB: mbicompanies.com
	5 EXISTING UTILITY POLE TO BE DEMOLISHE	D		CONSULTANT
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			5	COPYRIGHT © MBI COMPANIES INC. THE DESIGN PROFESSIONAL DENIES ANY AND ALL
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	20 0 10 20	40 60	1	SITE DEMOLITION PLAN
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К	1 INCH = 20'	М		C200

PROJECT # 2023-10-31-01

CERTIFICATE OF PLANNED UNIT DEVELOPMENT APPROVAL

We hereby certify that this Planned Unit Development (PUD) has been found to comply with the zoning and PUD regulations of the Clinton Municipal/Regional Planning Commission, with the exception of such alterations or variances, if any, as noted in the minutes of the Clinton Municipal/Regional Planning Commission and the Clinton Board of Zoning Appeals.

Date

Chairman Clinton Municipal/Regional Planning Commission

Date

Secretary Clinton Municipal/Regional Planning Commission

CERTIFICATE OF PUD APPLICATION AND AGREEMENT

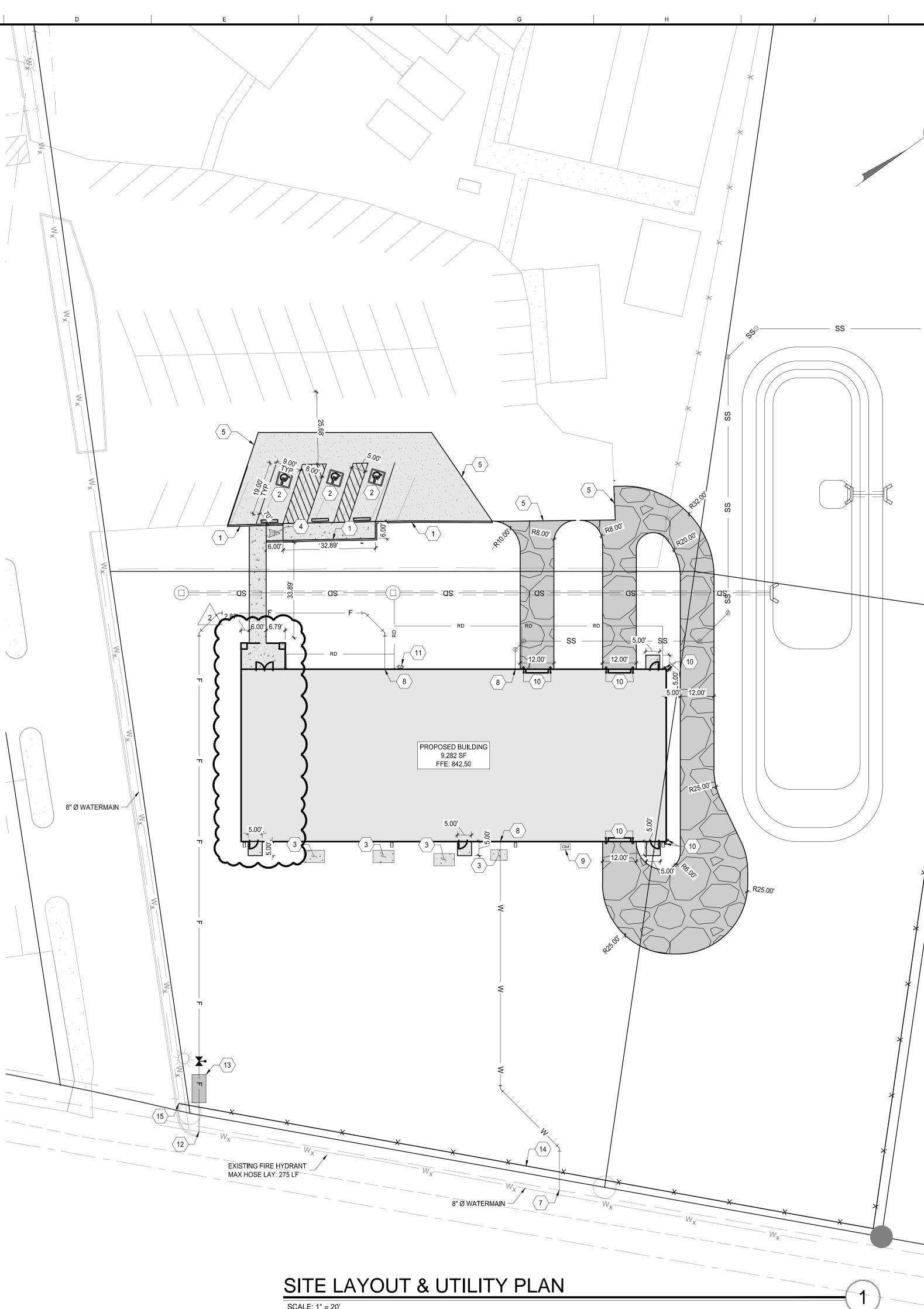
I (we) hereby certify that I (we) understand that the approval of a Planned Unit Development (PUD) shall expire twelve (12) months after the date of approval.

Date

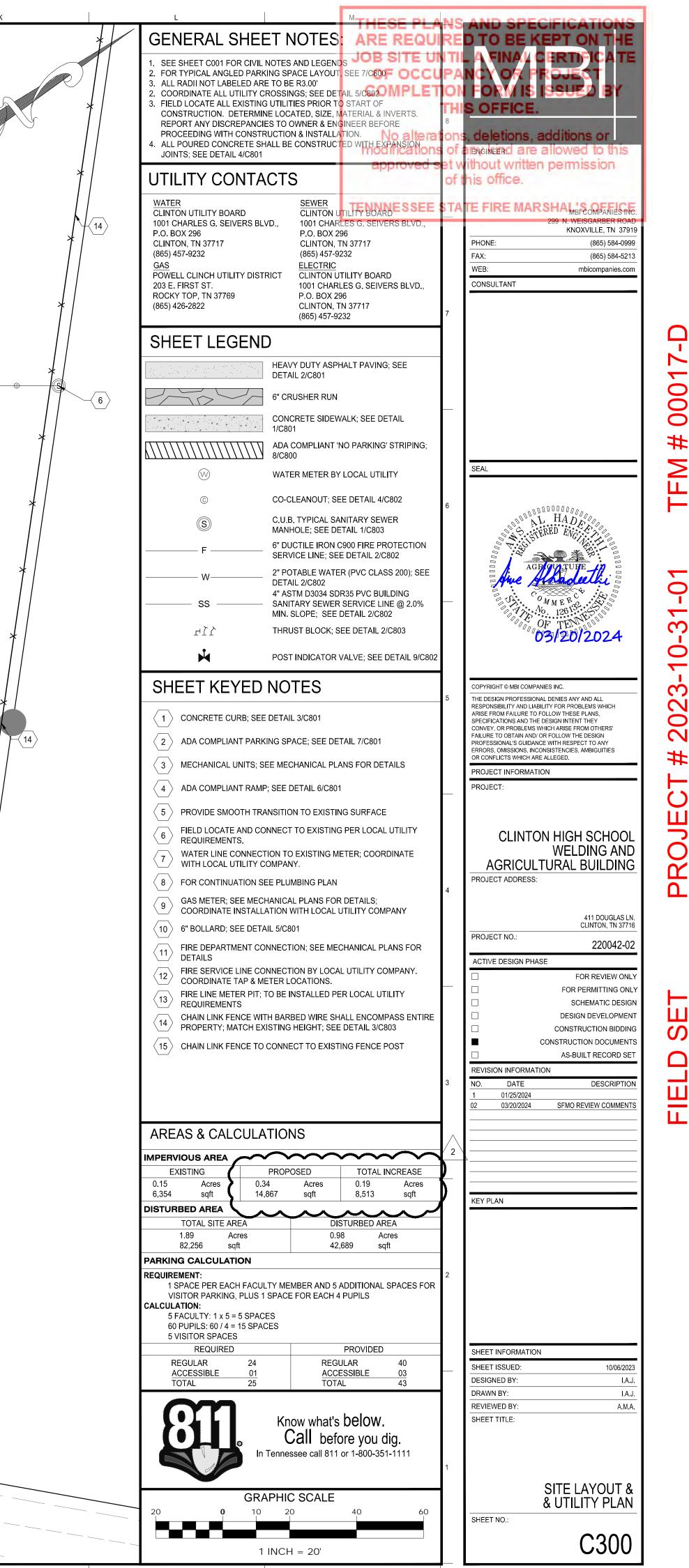
Applicant

Date

Applicant

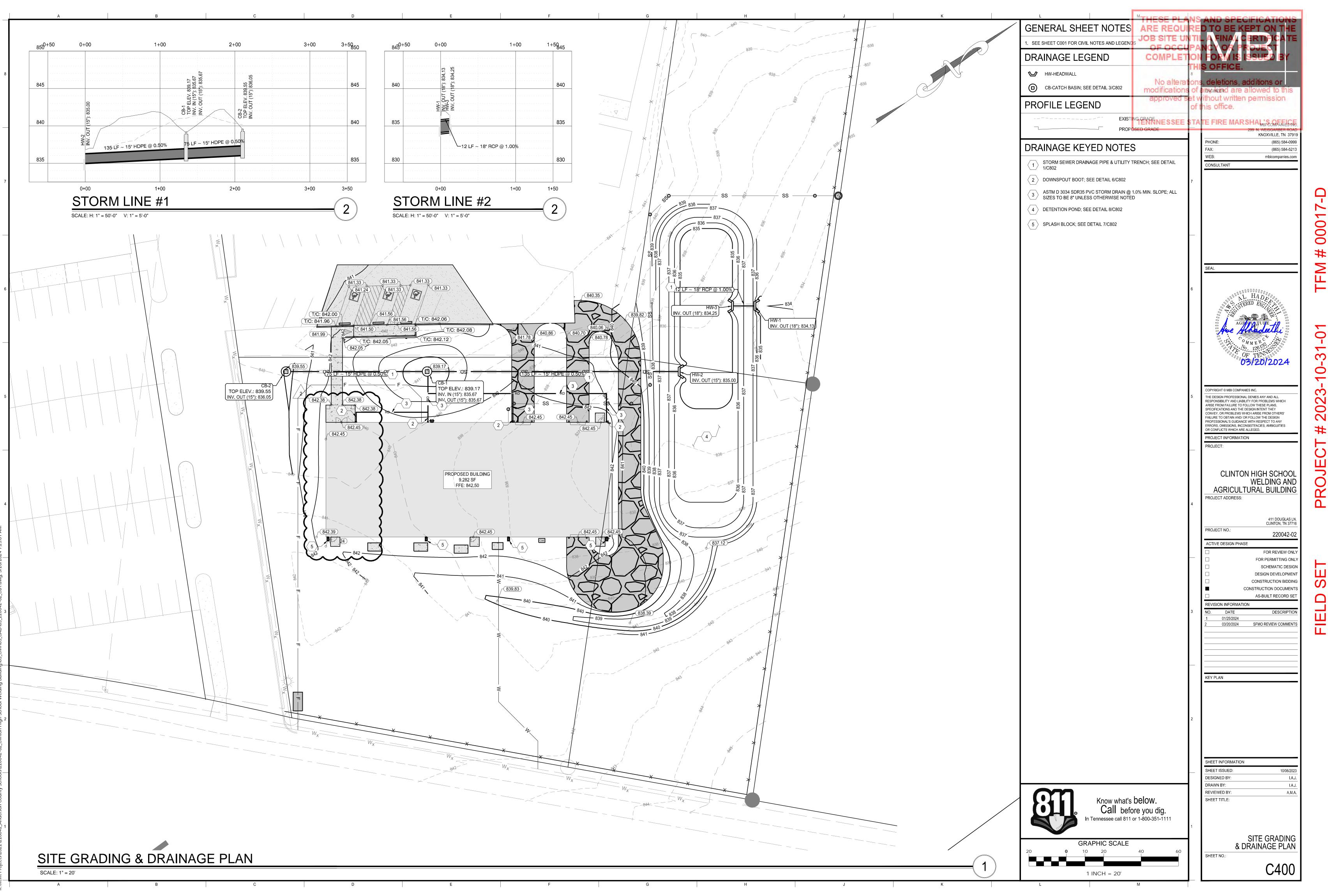


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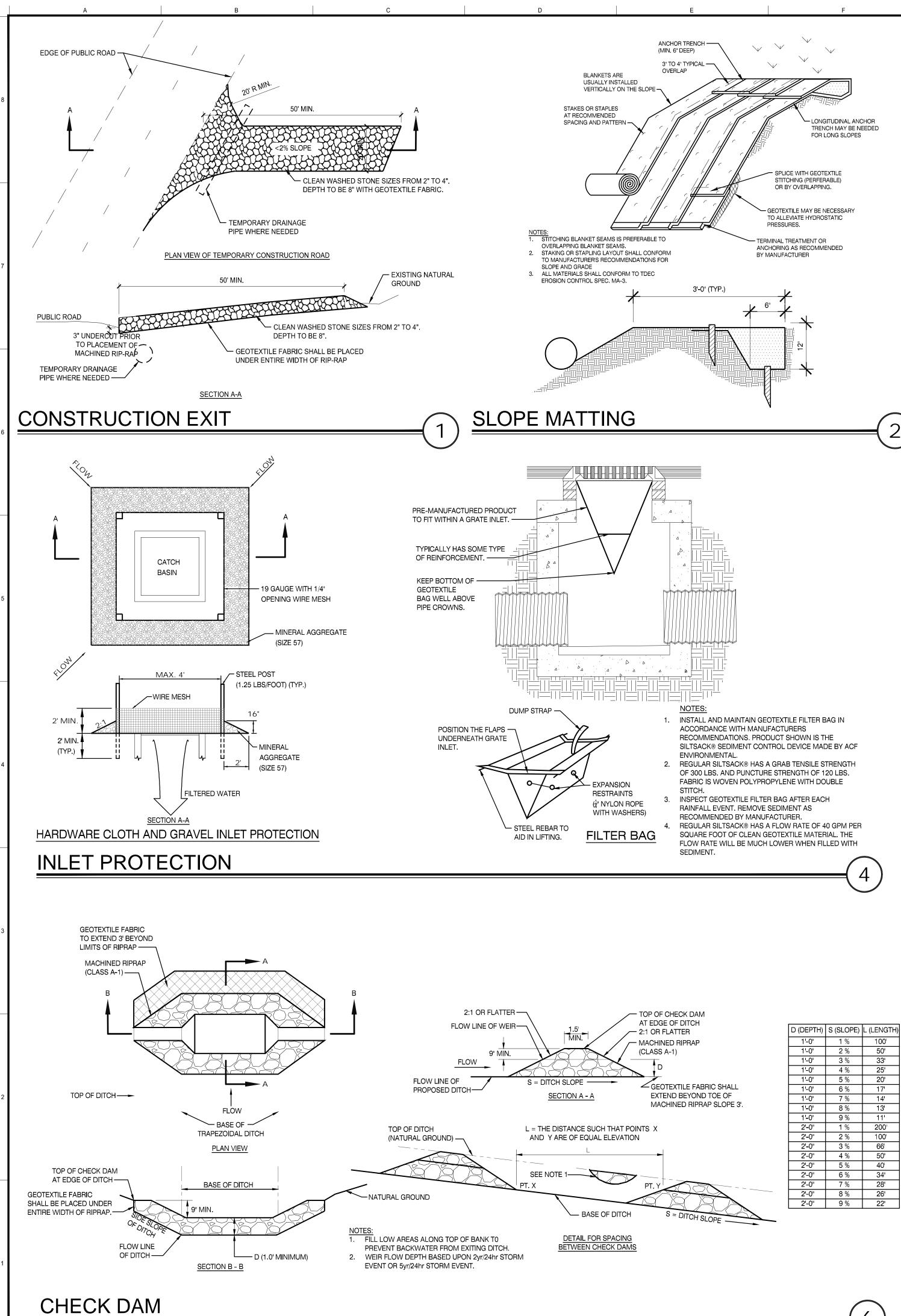
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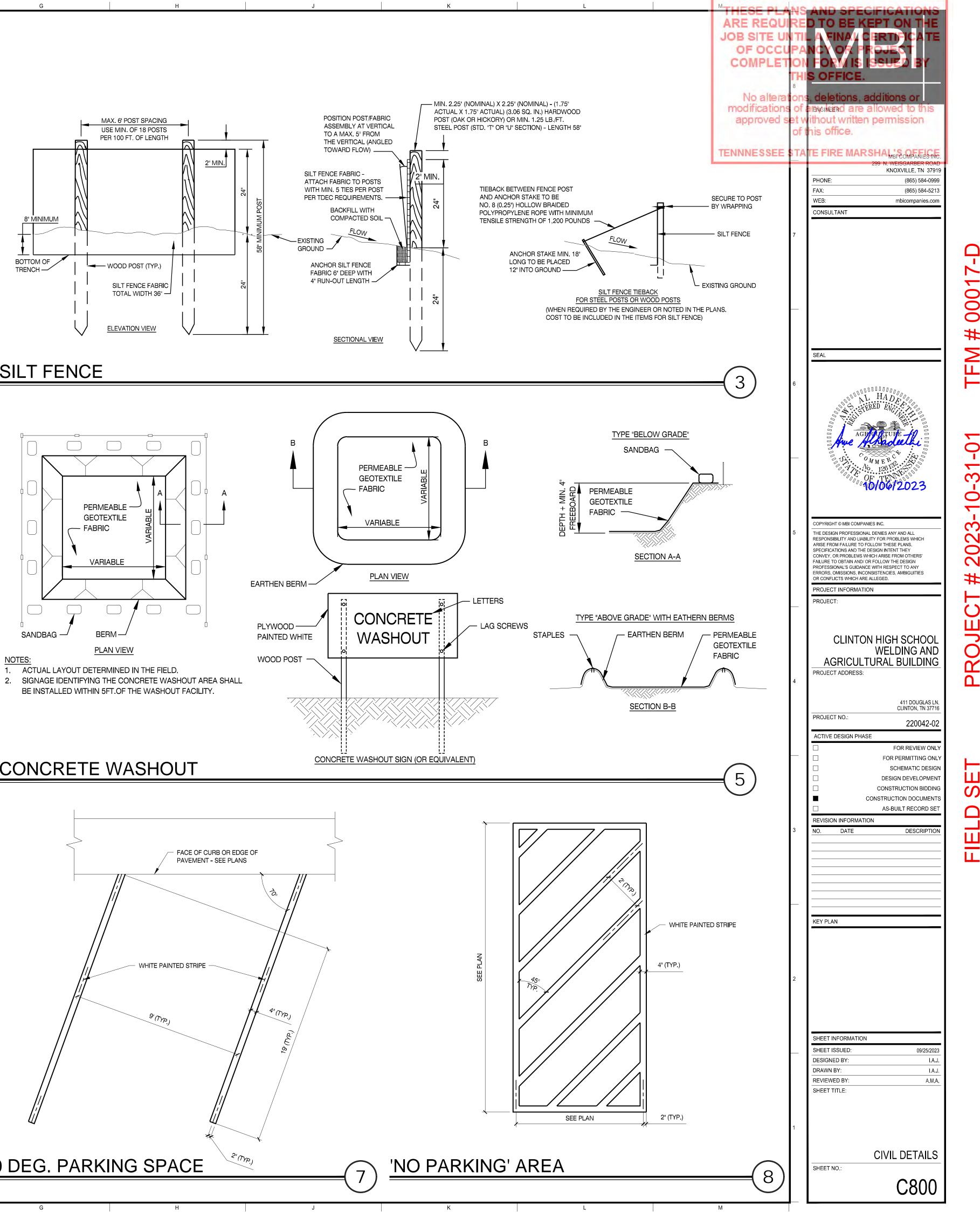
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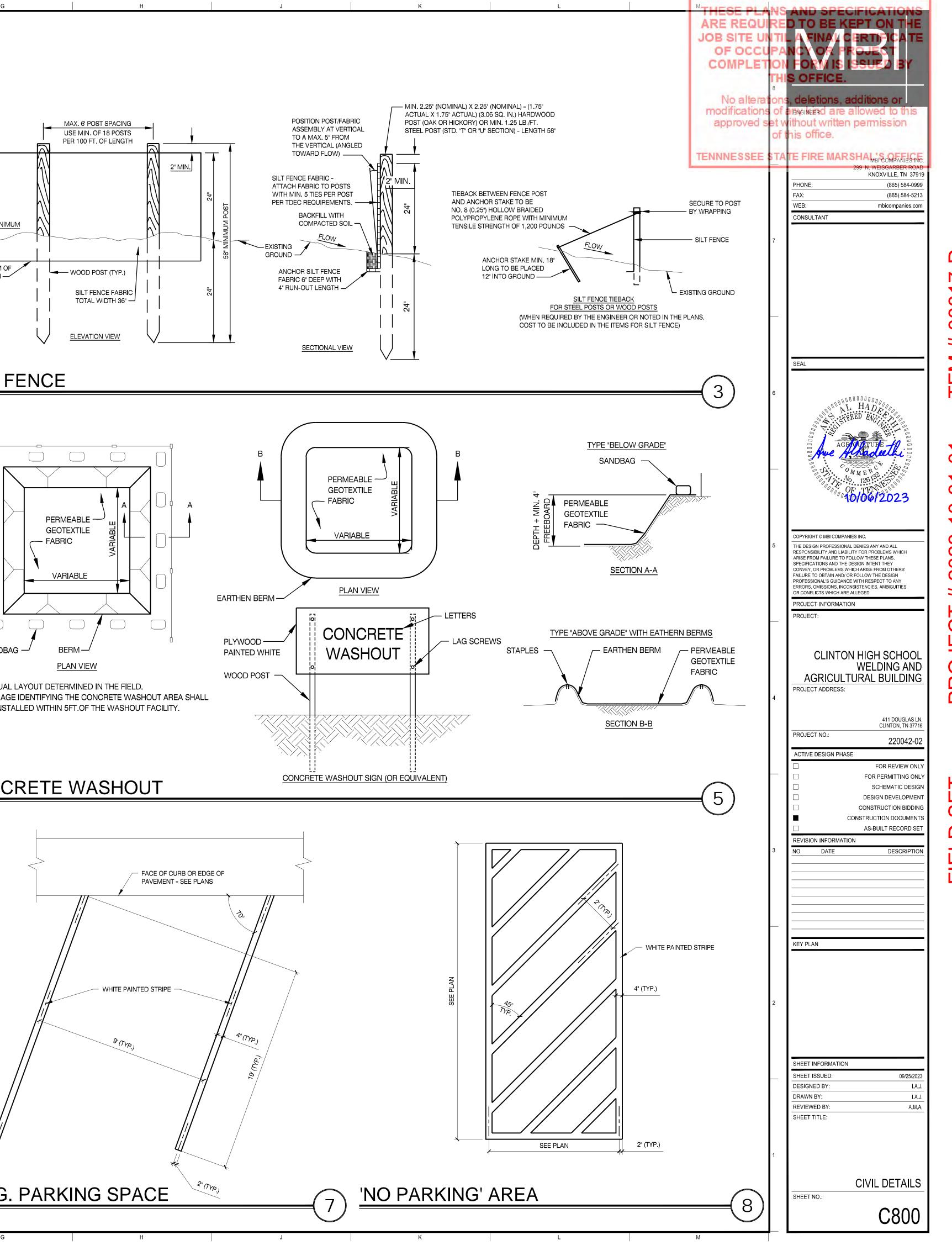
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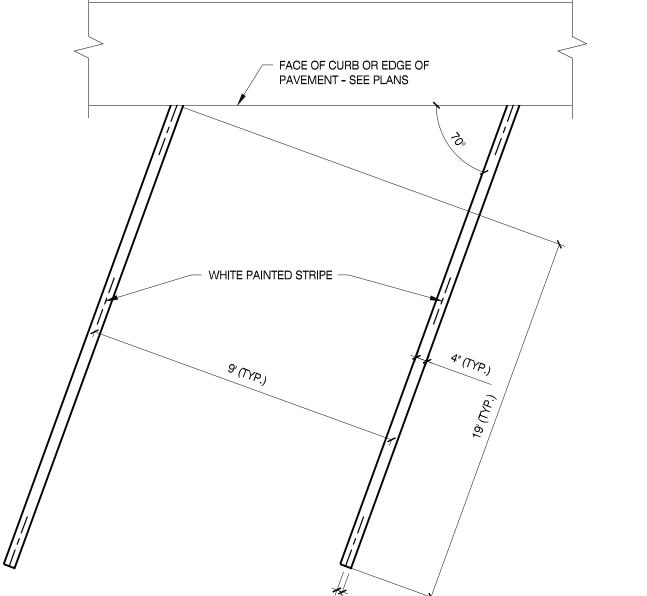
SILT FENCE





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1'-0"	2 %	50'
1'-0"	3 %	33'
1'-0"	4 %	25'
1'-0"	5 %	20'
1'-0"	6 %	17'
1'-0"	7 %	14'
1'-0"	8 %	13'
1'-0"	9 %	11'
2'-0"	1 %	200'
2'-0"	2 %	100'
2'-0"	3 %	66'
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2'-0"	7 %	28'
2'-0"	8 %	26'
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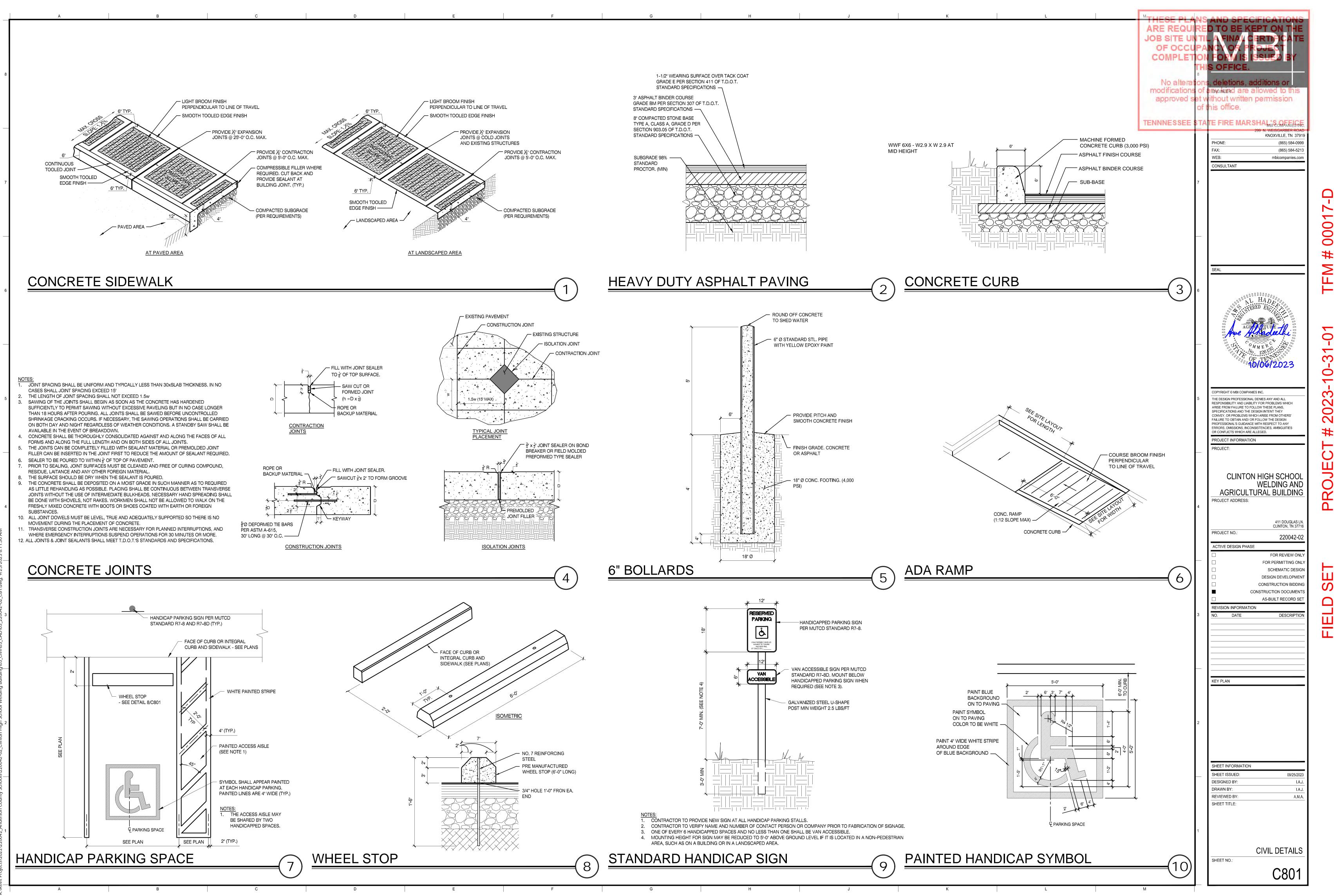
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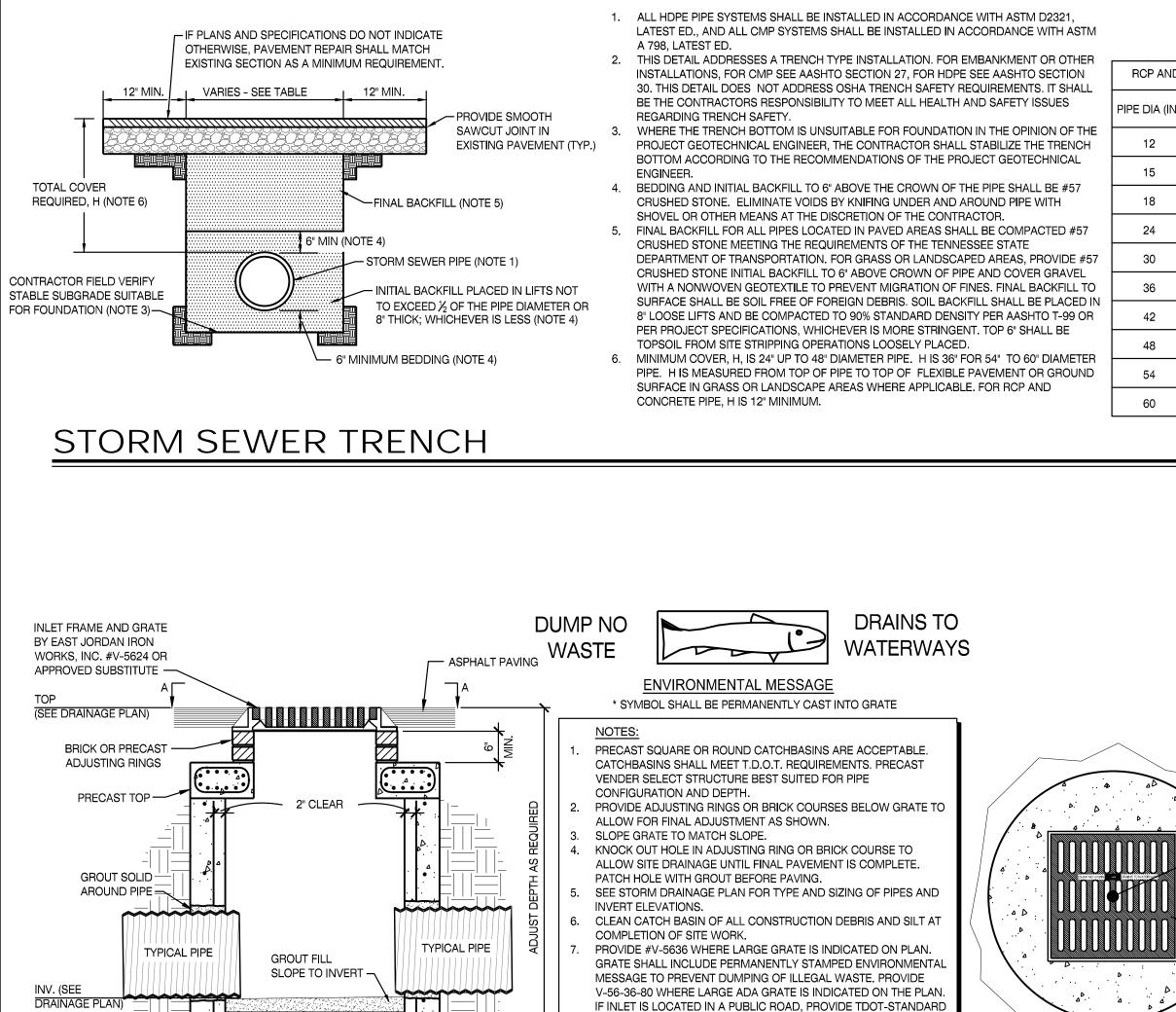


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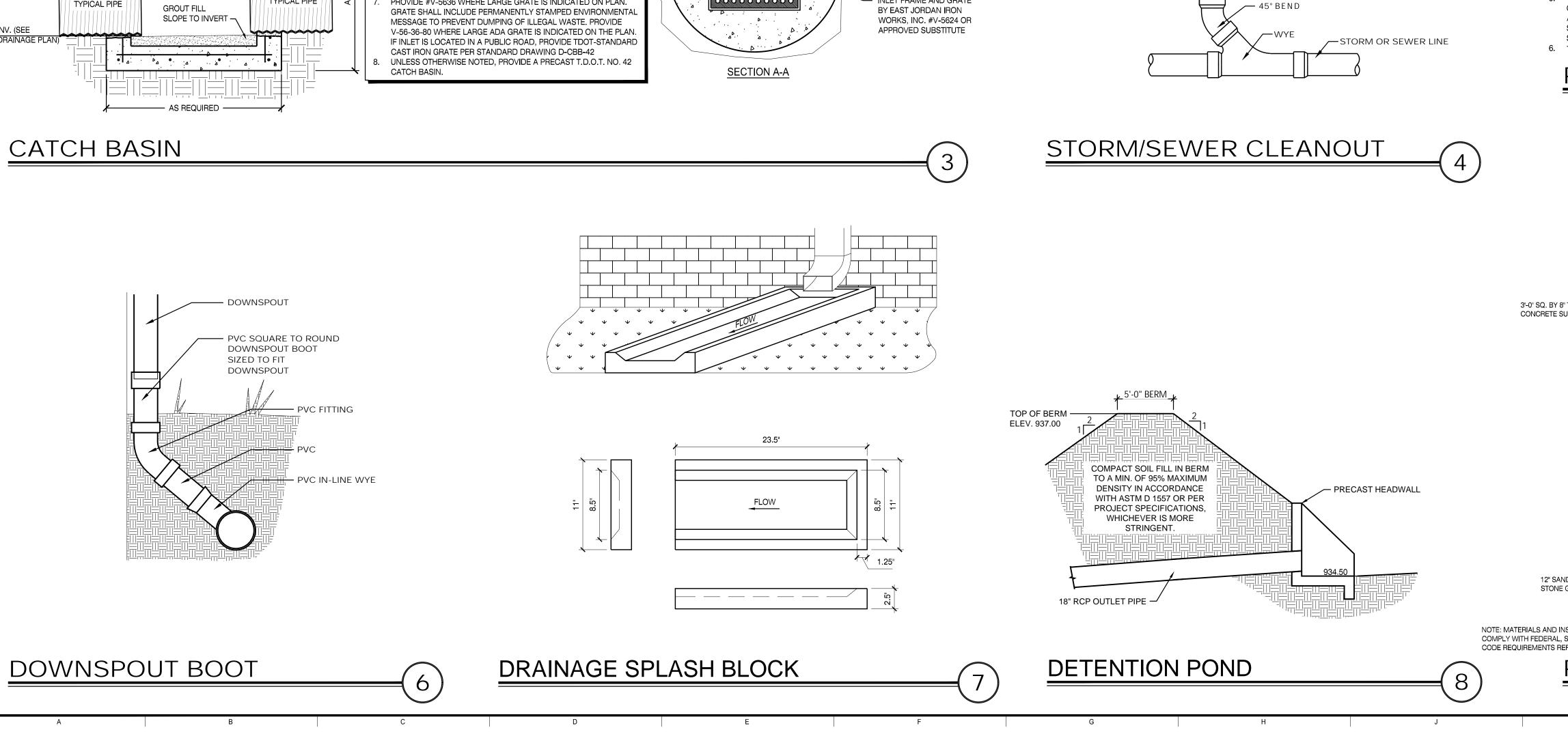
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- LOCATION POINT

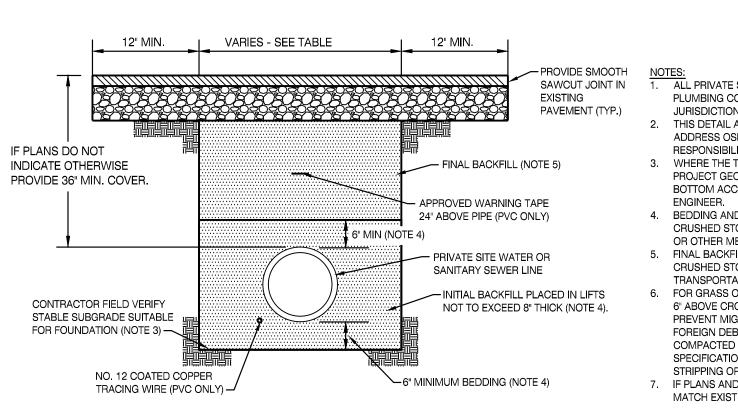
/--- ASPHALT PAVING

- PRE-CAST TOP

INLET FRAME AND GRATE



 \sim



- CAST IRON WITH 'STORM'

OR 'SEWER' CAST IN TOP

- 18" SQUARE

- HOUSING

CONCRETE PAD

→ #57 WASHED STONE

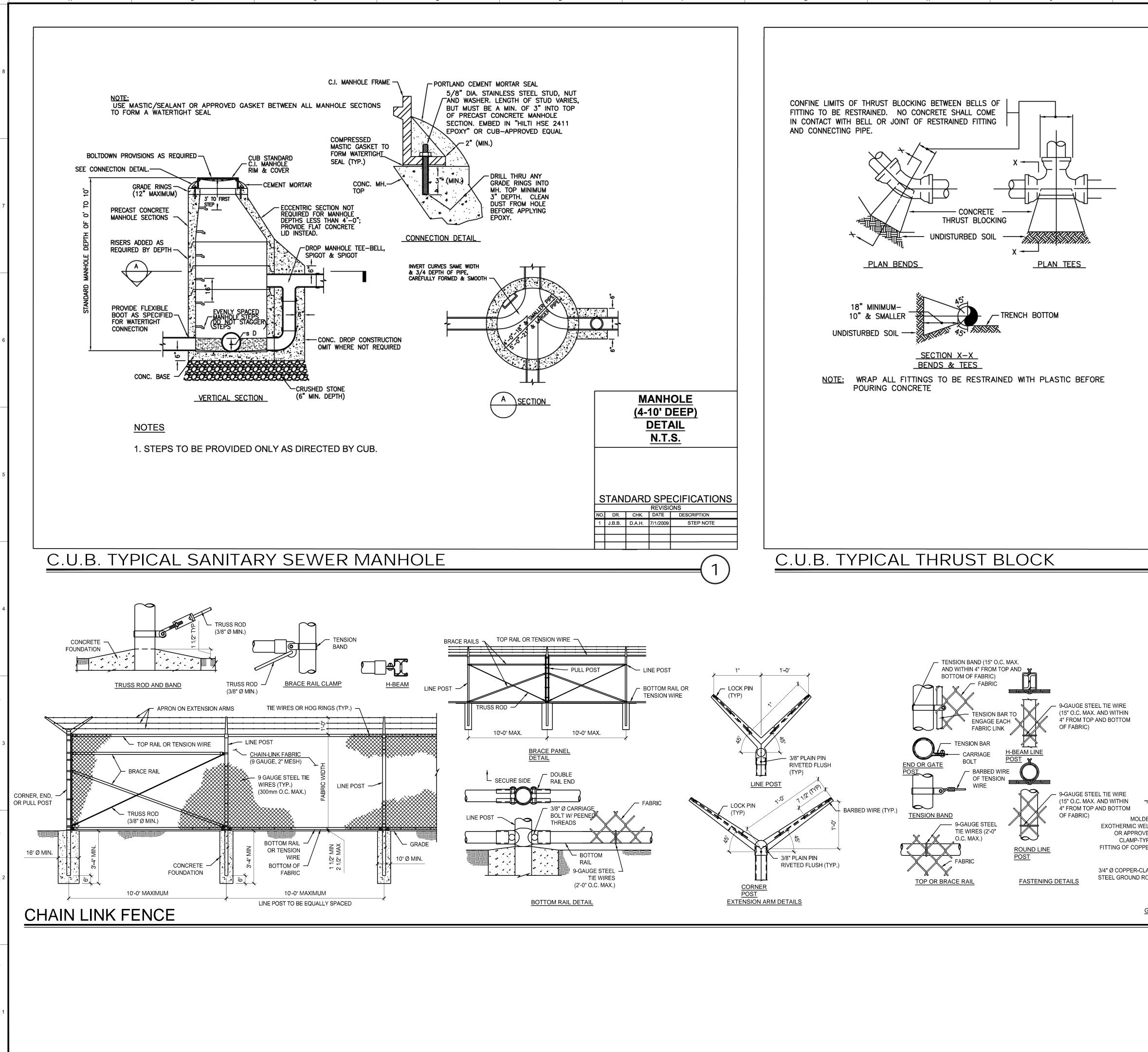
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SITE UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE DDE, LOCAL UTILITY REQUIREMENTS, AND THE LOCAL AGENCY HAVING	[1	ENNNESSEE	STA	TE FIRE MARSHALLS OFFICE	
N OVER BUILDING CONSTRUCTION. ADDRESSES A TRENCH TYPE INSTALLATION. THIS DETAIL DOES NOT HA TRENCH SAFETY REQUIREMENTS. IT SHALL BE THE CONTRACTORS	MINIMUM TRENC	-	_		299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999	T .
ITY TO MEET ALL HEALTH AND SAFETY ISSUES REGARDING TRENCH SAFETY. TRENCH BOTTOM IS UNSUITABLE FOR FOUNDATION IN THE OPINION OF THE DTECHNICAL ENGINEER, THE CONTRACTOR SHALL STABILIZE THE TRENCH	PIPE DIA. (IN.)	MIN. WIDTH (IN.)	_		FAX: (865) 584-5213 WEB: mbicompanies.com	
ORDING TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL	< 4	18 21	_		CONSULTANT	
ONE. ELIMINATE VOIDS BY KNIFING UNDER AND AROUND PIPE WITH SHOVEL EANS AT THE DISCRETION OF THE CONTRACTOR. ILL FOR ALL PIPES LOCATED IN PAVED AREAS SHALL BE COMPACTED #57	6	23	_	7		
ONE MEETING THE REQUIREMENTS OF THE STATE'S DEPARTMENT OF TION. DR LANDSCAPED AREAS, PROVIDE #57 CRUSHED STONE INITIAL BACKFILL TO	8	26				
DWN OF PIPE AND COVER GRAVEL WITH A NONWOVEN GEOTEXTILE TO GRATION OF FINES. FINAL BACKFILL TO SURFACE SHALL BE SOIL FREE OF BRIS. SOIL BACKFILL SHALL BE PLACED IN 8" LOOSE LIFTS AND BE TO 90% STANDARD DENSITY PER AASHTO T-99 OR PER PROJECT INS, WHICHEVER IS MORE STRINGENT. TOP 6" SHALL BE TOPSOIL FROM SITE PERATIONS LOOSELY PLACED. D SPECIFICATIONS DO NOT INDICATE OTHERWISE, PAVEMENT REPAIR SHALL ING SECTION AS A MINIMUM REQUIREMENT.			= 2		SEAL	FM # 00017
10' MIN. SEPARATION FOR SANITARY SEWER, STORM SEWER OR FORCE MAIN 12' MIN. SEPARATION FOR IRRIGATION MAIN	TER MAIN	18" MIN.		6	AGE CUTTUFE A MMER No. 12613-000	1-01 T
WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY FORCE MAINS BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18" MEAS AND THE TOP OF THE LOWER PIPE. THE 18" MINIMUM VERTICAL SEPAR.	IRRIGAT SEWER, NON-POTA URED BETWEEN TH	IE BOTTOM OF T	DRCE MAIN MAINS, AND HE UPPER PIPE	5	COPYRIGHT @ MBI COMPANIES INC.	3-10-3
OF SEWER LATERALS AND POTABLE WATER MAIN PIPELINE INSTALLAT FROM STORM SEWER, SANITARY SEWER AND FORCE MAINS BY 10' AN HORIZONTALLY BETWEEN OUTSIDE OF PIPES. ALL CROSSINGS WITH VERTICAL CLEARANCE LESS THAN 18" SHALL RE IF A DEVIATION IS SUBMITTED, THE FOLLOWING MINIMUM STIPULATION THICKNESS CLASS 200 AWWA C-900 DR14, PVC (CLASS 235 AWWA C- DIAMETER) OR DUCTILE IRON, PRESSURE CLASS 250 PIPE FOR A HORIZ CROSSING. WATER MAIN CONCRETE ENCASEMENT SHALL ONLY BE M/ DIRECTOR OR HIS DESIGNEE.	IONS. ALSO, WATER D FROM IRRIGATION QUIRE SUBMISSION IS APPLY: THE CROS 905, DR 18, PVC FOF ONTAL DISTANCE O	MAINS SHALL E MAINS BY 12' N AND APPROVA SSING SHALL BE PIPES GREATE OF 10' ON EACH \$	BE SEPARATED //EASURED L OF A DEVIATION. MADE USING R THAN 12" IN SIDE OF THE		RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION PROJECT:	T # 202
18" CLEAR DISTANCE SHALL NOT BE REDUCED IN CASES WHERE WATE WATER MAINS, SANITARY SEWER, STORM SEWER, AND NON-POTABLE			PARATE			
TRENCHES. WATER MAINS CROSSING ANY TYPE OF SANITARY SEWER, INCLUDING ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE OR BELOW THE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT S SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3' FROM ALL JOINTS IN STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED V 10" STONE SHALL BE UTILIZED FOR SEPARATION BETWEEN GRAVITY SA PIPE SEPARATION	OTHER PIPELINE SC SUCH CROSSINGS, 1 N VACUUM-TYPE SA VATER.	O THAT THE WAT THE PIPES SHAL ANITARY SEWER	ER JOINTS WILL BE L BE ARRANGED S, STORM SEWERS,	4	CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING PROJECT ADDRESS:	PRO.IF
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ID OR #57 GRAVEL		>		1	DESIGNED BY: I.A.J. DRAWN BY: I.A.J. REVIEWED BY: A.M.A. SHEET TITLE:	
ISTALLATION SHALL		CONCRETE SUPPO REINFORCING ROD	DRT PAD WITH DS 2'-0" SQ. BY 8" THICK			
POST INDICATOR VAI	_VE		9		CIVIL DETAILS SHEET NO.: C802	

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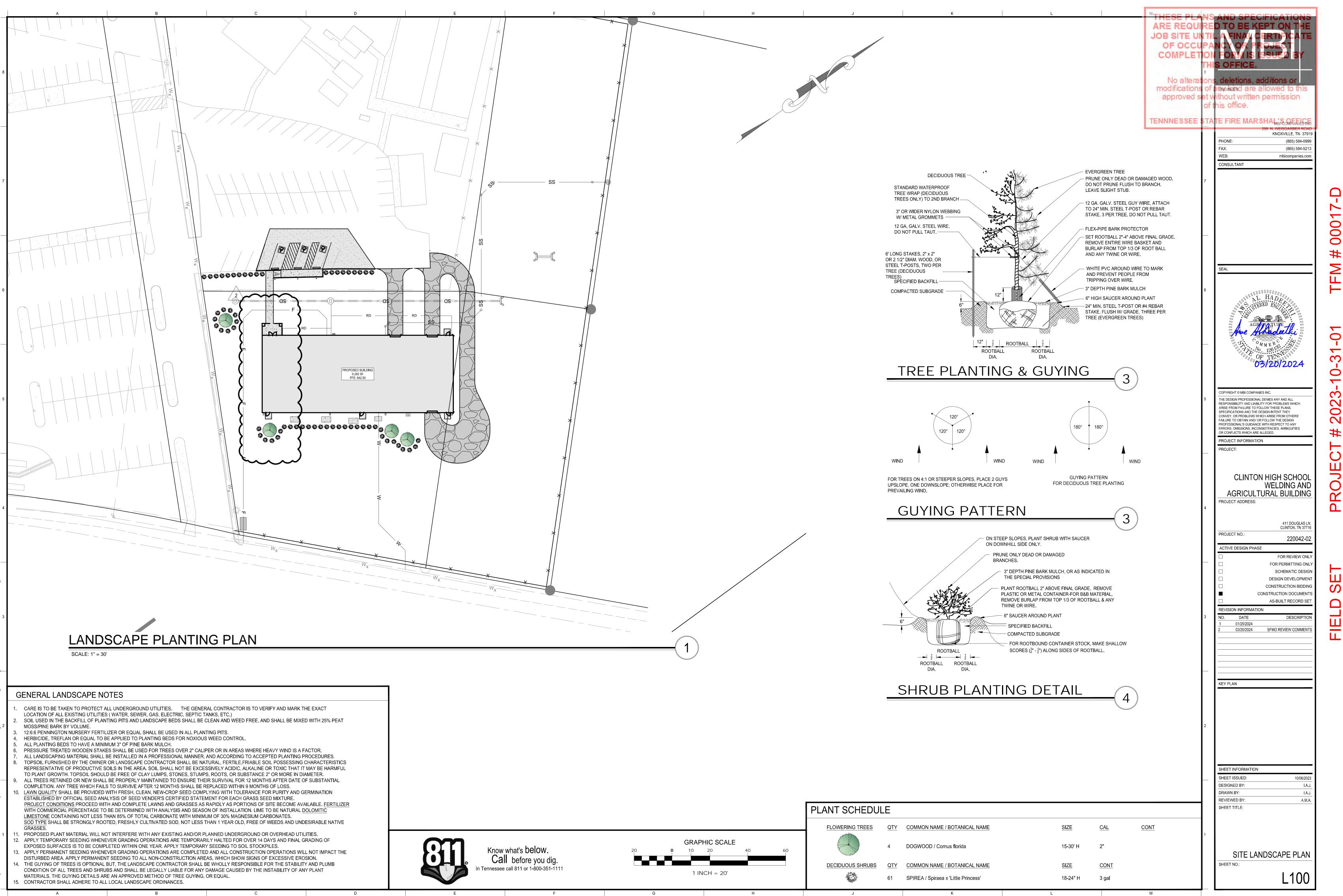
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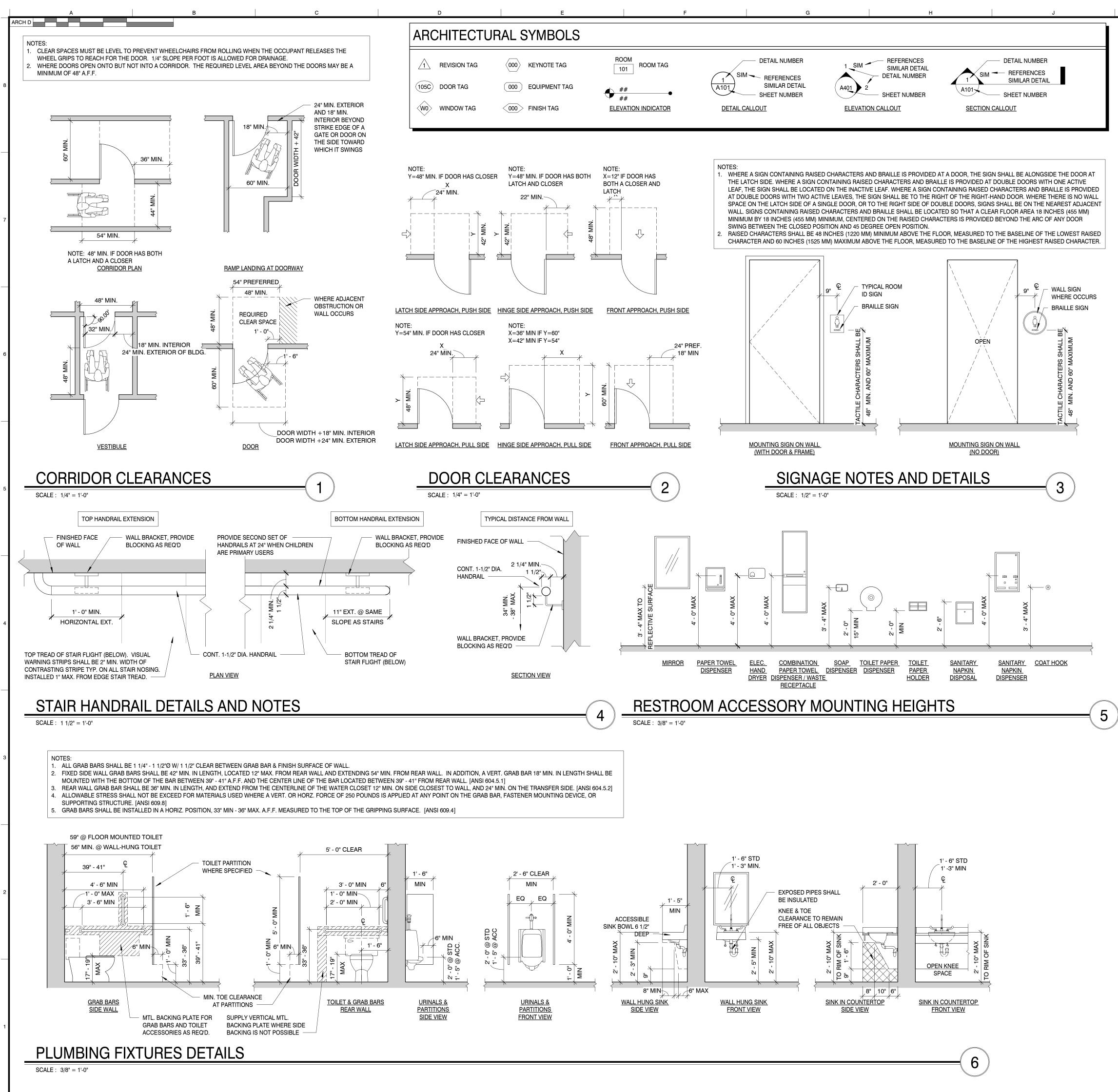
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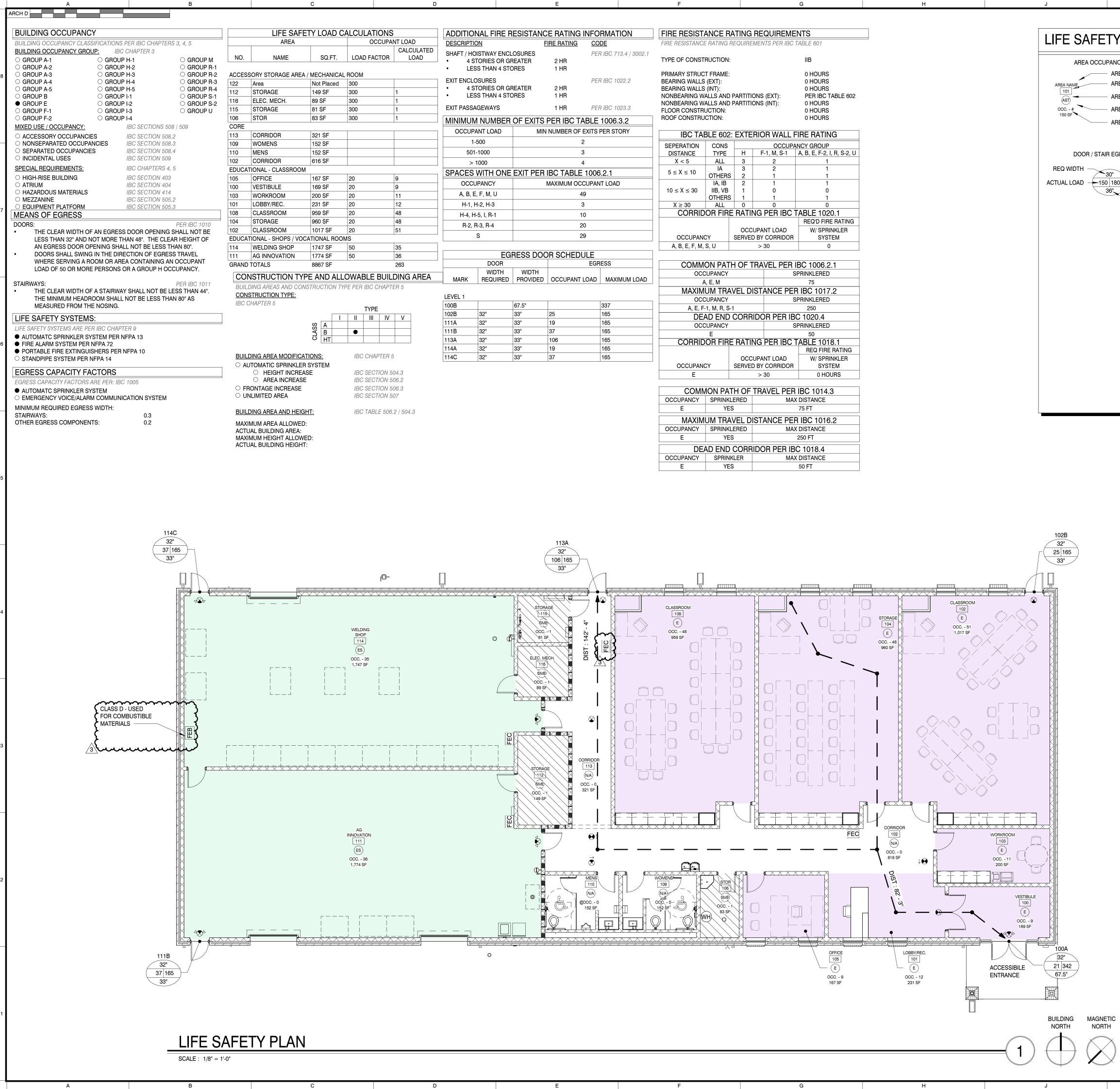
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	GENERAL NOTES	ARE REQUIR	ED T	TO BE KEPT ON THE	
1.	THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONTRACT DOCUMENTS OF WORK. THE CONTRACTOR IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS AND DRAWINGS AND SPECIFICATIONS SHALL NOT EXCUSE HIM FROM PROVIDING A COMPLETED IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. IN THE EVENT CONTRACTOR SHALL PRICE THE MORE EXPENSIVE AND EXTENSIVE WORK, UNLESS DIRECT	DISCREPANCIES IN THE TIO FACILITY AND OF DISCREPANCIES,	8	ORM 5 ISSUED BY OFFICE.	
2.	DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PAR DRAWINGS, GENERAL NOTES AND SPECIFICATIONS ARE COMPLIMENTARY, AND WHAT IS CA BE BINDING AS IF CALLED FOR BY ALL. WORK SHOWN OR REFERRED TO ON ANY DRAWING AS THOUGH SHOWN ON ALL RELATED DRAWINGS. IF THERE IS ANY CONFLICT OR DISCREPA BETWEEN ANY OF THE CONTRACT DOCUMENTS INVOLVING THE QUALITY OR QUANTITY OF WORK OF HIGHEST QUALITY AND/OR GREATEST QUANTITY SHOWN OR SPECIFIED SHALL BE	T OF THE WORK THENS O LLED FOR BY ANY WILL SET SHALL BE PROVIDED NCY WITHIN OR WORK REQUIRED, THE	fany with fthis	eletions, additions or kind are allowed to this out written permission office.	
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL CONTRACT FIELD CONDITIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PR	DOCUMENTS AND	ALE	FIRE MARSHAL MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999	
4.	WITH CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND A BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQU PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRA SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS ANNOT	JENCES AND CT. THE CONTRACTOR		FAX:(865) 584-5213WEB:mbicompanies.comCONSULTANT	
5.	REVISIONS AND CLARIFICATIONS FOR THE USE BY ALL. CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF F ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PU FACILITIES WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.	IBLIC WAYS OR	7		
6.	EXCEPT WHERE OTHERWISE SPECIFIED, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE P WEATHER TO MAINTAIN ALL WORK, MATERIALS, APPARATUS, AND FIXTURES FROM INJURY O END OF THE DAY'S WORK, ALL NEW WORK LIKELY TO BE DAMAGED SHALL BE COVERED OR PROTECTED AS REQUIRED.	OR DAMAGES. AT THE			0001
7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE AND TOI WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS, EXTENSIONS DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO E MUST BE REMOVED AT COMPLETION OF THE PROJECT.	, VALVES, OR OTHER		SEAL	# WE
8.	THE CONTRACTOR SHALL LIMIT THE INGRESS AND EGRESS OF WORKERS AND EQUIPMENT CONSTRUCTION SITE TO AUTHORIZED PERSONS ONLY. DAMAGE TO ANY EXISTING INTERIO CONSTRUCTION SHALL BE REPAIRED TO "LIKE NEW" CONDITION UNDER THIS CONTRACT.		6		F
9.	THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ADEQUATE SAFETY BARRICADES FOR PROPERSONNEL AND THE PUBLIC AND CLEAR ACCESS IN AND OUT OF THE WORK SITE SO AS TO TRAFFIC MOVEMENT, DELIVERIES, AND SAFETY. REMOVE BARRICADES WHEN NO LONGER FOR PROPERSON AND SAFETY.	O FACILITATE DAILY		HILLE DOWLEN NO	
10.	REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AN MATERIALS OFF-SITE. BURYING OR BURNING OF "TO BE REMOVED" MATERIALS ON THE PRO FORBIDDEN.		_		-01
11.	COOPERATE WITH THE APPLICABLE CITY OR OTHER GOVERNMENT OFFICIALS AND INSPECT SUCH OFFICIAL OR INSPECTOR DEEMS SPECIAL INSPECTION NECESSARY, PROVIDE ALL AS FACILITIES THAT WILL EXPEDITE HIS INSPECTION.			OF TENNE	1-31
12.	ALL DETAILS OF CONSTRUCTION SHALL CONFORM WITH THE APPLICABLE CODES (SEE PRO COVER SHEET)	JECT INFORMATION ON		COPYRIGHT © MBI COMPANIES INC. 2023	
13.	PROVIDE HIGH SECURITY SURFACE MOUNTED BOX W/ TAMPER SWITCH (FIRE DEPARTMENT ENTRANCE. THREE COMPLETE SETS OF KEYS MUST BE PROVIDED. KEYS MUST BE PROVID CONTAINING FIRE AND LIFE SAFETY SYSTEM CONTROLS. PRIOR TO INSTALLATION VERIFY EX EXACT TYPE OF BOX REQUIRED WITH LOCAL AUTHORITY HAVING JURISDICTION.	ED FOR ALL ROOMS	5	THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY	2023
	MOUNT FIRE EXTINGUISHERS LISTED IN SPECIFICATIONS AT LOCATIONS SHOWN AND/OR DI DEPARTMENT CODE OFFICIAL HAVING JURISDICTION.			ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION	#
15.	INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, UNLESS OTHERWISE INDICATED OR W OR REGULATIONS TAKE PRECEDENCE. ALL WORK PERFORMED AND MATERIALS INSTALLED ACCORDANCE, AS A MINIMUM STANDARD, WITH ALL APPLICABLE CODES, REGULATIONS ANI JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDIN REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFOR	/HERE LOCAL CODES SHALL BE IN STRICT D ORDINANCES HAVING NANCES, RULES,		PROJECT: CLINTON HIGH SCHOOL WELDING	
16.	PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUT NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND LABOR NECESSARY TO AFFECT ALL INSTALLATIONS INDICATED ON THE DRAWINGS. THE WO INCLUDE ALL MATERIALS, DETAIL AND LABOR NECESSARY FOR THE SUCCESSFUL INSTALLA DESCRIBED HEREIN.	APPURTENANCES, AND ORK SHALL ALSO	4	AND AGRICULTURE BUILDING PROJECT ADDRESS:	Dad
17.	ALL DIMENSIONS ARE TO FACE OF CONC. BLOCK, CONC. PANEL, FACE OF EXISTING FINISH, STUD, UNLESS OTHERWISE NOTED. "CLEAR" DENOTES FINISH TO FINISH DIMENSIONS.	OR FACE OF NEW		411 DOUGLAS LN CLINTON, TN 37716 PROJECT NO.: 220042-02	
18.	CONTRACTOR IS TO COORDINATE THE BUILDING PLANS WITH THE CIVIL AND SURVEY DRAW ELEVATIONS AND SLOPES OF EXTERIOR GRADES FOR INSTALLATION OF NEW EXTERIOR STA SIDEWALKS. CONTRACTOR TO FIELD VERIFY EXTERIOR GRADES AT BUILDING ENTRANCES T FINISHED FLOOR ELEVATIONS AND/OR NEW STAIR/RAMP ELEVATIONS. GRADING AT BUILDING SLOPE AWAY FROM BUILDING MIN. 1/4" PER FOOT.	AIRS, RAMPS AND TO ALIGN WITH		ACTIVE DESIGN PHASE Image: Point of the second s	F
19.	ALL GRADES, LINES, LEVELS, AND DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE FIELD CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY ERROR OR INCONSISTENCY SHAL ARCHITECT FOR INSTRUCTIONS PRIOR TO START OF CONSTRUCTION.			DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS	Ц С
20.	CONTRACTOR IS TO FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START ON NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS.	DF CONSTRUCTION AND	3	AS-BUILT RECORD SET REVISION INFORMATION NO. DATE DESCRIPTION	
	CONTRACTOR IS TO FIELD VERIFY LOCATIONS AND RUNS OF ALL NEW AND EXISTING STORM ROOF TIE-INS. REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO START OF CONSTR	RUCTION.	0		ЦЦ
22.	DO NOT INTERRUPT EXISTING UTILITIES IN OCCUPIED FACILITIES UNLESS AUTHORIZED IN W AUTHORITIES HAVING JURISDICTION. IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATE T ACCEPTABLE TO GOVERNING AUTHORITIES. CONTRACTOR SHALL COORDINATE WITH ALL U HOURS PRIOR TO ANY DEMOLITION WORK.	EMPORARY SERVICES			
23.	CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK. JOIN MATERIALS TO U FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS. INSTALL APPROPRIATELY LEVEL, PLUMB AND AT THE ACCURATE RIGHT ANGLES, OR FLUSH WITH AD WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE	EXPOSED MATERIALS		KEY PLAN	
24.	BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK THE CONTRACTOR SHALL VERIFY AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS. ANY DIFFERENCES BETWEEN DIM ON THE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR INSTRUCTIONS AND CON PROCEEDING WITH THE WORK.	ENSIONS INDICATED			
25.	FURNISH AND INSTALL ALL REQUIRED BACKING FOR ALL SHELVES, CABINETS, FIXTURES, HA EQUIPMENT. COORDINATING WITH OWNER AND CONTRACTOR FOR EXACT SIZE, NUMBER, A TO START OF CONSTRUCTION. METAL BACKING PLATES TO BE FLAT STOCK (20 GAUGE MIN METAL FRAMING. ALL WOOD BLOCKING, NAILERS, ETC. MUST BE FIRE RETARDANT TREATED	ND LOCATION PRIOR .) WHEN APPLIED TO	2		
	GLAZING IN DOORS AND ADJACENT PANELS MUST BE TEMPERED. RESPONSIBILITY OF GLAZ TO VERIFY & PLACE TEMPERED GLASS AS REQUIRED BY THE LOCAL BUILDING CODE & INSP	ECTOR.		SHEET INFORMATION	
	SPOUT OUTLETS FOR WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36" MAX A STANDING PERSONS SHALL BE 38" MIN A.F.F. AND 43" MAX. A.F.F.			SHEET ISSUED:10/06/2023DESIGNED BY:CMGDRAWN BY:MDC	
	FILL ALL C.M.U. CELLS BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS HIGHER S GROUTED.			DRAWN BY: MDC REVIEWED BY: CMG SHEET TITLE:	
	PROVIDE ADA COMPLIANT SIGNAGE AT ALL TOILET AND BATHROOMS. APPROPRIATELY IDEN "WOMEN".				
	ALL TOILET ROOMS AND BATHROOMS WALLS SHALL EXTEND FROM FINISH FLOOR TO FLOOD PROVIDE SOUND BATT INSULATION IN ENTIRE STUD CAVITY. ALL WALLS WITHIN 24" OF SERVICE SINK, URINAL AND/ OR WATER CLOSET SHALL HAVE A SM	<i>I</i> OOTH, HARD,	1	GENERAL NOTES AND ACCESSIBILITY	
	NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 48" A.F.F. IF TILE OR FRP IS NEEPOXY PAINT, COLOR TO BE SELECTED BY ARCHITECT. ALL WALL BASE IN TOILET ROOMS, BATHROOMS AND KITCHENS SHALL BE COVED AND EXTERNAL	OT SPECIFIED PROVIDE		DETAILS SHEET NO.:	
	THE WALL A MIN. OF 4" A.F.F.	M		AUUU	I



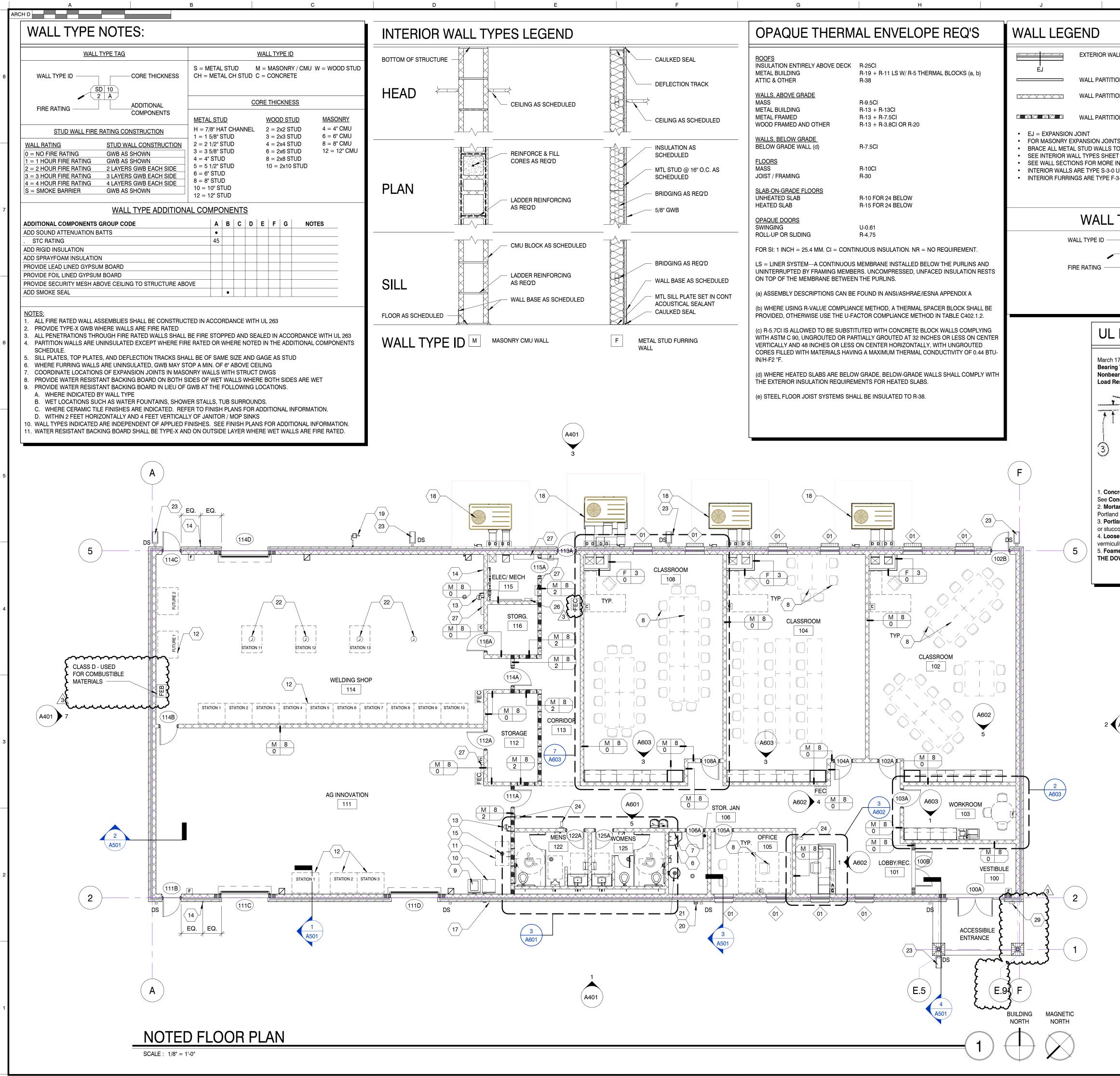
RATING INFO	ORMATION				REQUIREME			
RATING CO	ODE	FIRE RESISTANCE	E RATING I	REQUIRE	MENTS PER IBC	TABLE 601		
PE HR HR	ER IBC 713.4 / 3002.1	TYPE OF CONSTRUCTION: IIB						
		PRIMARY STRUC				0 HOURS		
	ER IBC 1022.2	BEARING WALLS				0 HOURS		
HR HR		BEARING WALLS						
ΠN		NONBEARING W				PER IBC TABLE 602 0 HOURS		
HR PE	ER IBC 1023.3	FLOOR CONSTR				0 HOURS		
R IBC TABLE	100632	ROOF CONSTRU	ICTION:			0 HOURS		
MBER OF EXITS								
2		IBC TA	BLE 602	EXIE	RIOR WALL F	IRE RATING		
		SEPERATION	CONS			NCY GROUP		
3		DISTANCE	TYPE	H	F-1, M, S-1	A, B, E, F-2, I, R, S-2, U		
4		X < 5	ALL	3	2	1		
TABLE 100	6.2.1	5 ≤ X ≤ 10	OTHERS		1	ı 1		
IMUM OCCUPA	NT LOAD		IA, IB	2	1	1		
49		$10 \le X \le 30$	IIB, VB	1	0	0		
		X > 00	OTHERS	<u>5 1</u> 0	1	1		
				•				
10						REQ'D FIRE RATING		
20	20			000	UPANT LOAD	W/ SPRINKLER		
29		OCCUPAN	Сү		D BY CORRIDOR	SYSTEM		
		A, B, E, F, M,	S, U		> 30	0		
SCHEDULE								
EG	RESS	COMM	ON PAT	H OF 1	FRAVEL PER I	BC 1006.2.1		
		OCCUPANCY SPRINKLERED						
CCUPANT LOAD	MAXIMUM LOAD	A, E, M 75						
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		000	S	PRINKLERED				
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	165	DEAD END CORRIDOR PER IBC 1020.4						
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1	165 165	CORRID	ORFIR	E RATI	NG PER IBC 1			
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	100	OCCUPAN	CY		UPANT LOAD D BY CORRIDOR	W/ SPRINKLER SYSTEM		
		E			> 30	0 HOURS		
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			SPRINK		TRAVEL PER	DISTANCE		
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		OCCUPANCY	SPRIN	MAX	MAX DISTANCE			

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LIFE SAFE	TY F
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PLAN LEG	GEND)							
Y TAG A NAME A NUMBER A OCCUPANT TYPE A OCCUPANT LOAD A SQUARE FOOTAGE	F L	FIRE ALARM PULL CEILING MOUNTER COMBINATION AU SPEAKER STROBE CEILING MOUNTER VISUAL STROBE D	D FIRE ALA DIO/VISUA DEVICE D FIRE ALA	L	INDICATES DISTANCE TO EXIT DIST: ###' PATH OF TRAVEL				
ESS TAG	S € FACP	EXIT SIGN CEILING MOUNTED DETECTOR DEVICE FIRE ALARM CONT	Ξ	EL			0 HR RATED V 1 HR RATED S 1 HR RATED C 2 HR RATED S	TUD WALL	
MAX LOAD ACTUAL WIDTH	FEC FEB	FIRE EXTINGUISHE W/ HIGHEST OPER 48" AFF MAX FIRE EXTINGUISHE		™@ ∽∽∽∽∽			2 HR RATED C		
<u>}</u>		MTD W/ HIGHEST (@ 48" AFF MAX	OPERABLE	EPART	CODE SPACI SPACE FL			R IBC GROSS / NET SF	
				EDUCA VOCAT CORE	TIONAL - CL TIONAL - SH IONAL ROO	iops / Ms		NSF NSF GSF	
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7	MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999 FAX: (865) 584-5213 WEB: mbicompanies.com CONSULTANT
6	SEAL DOWLEN NICHT REED ARCHING
5	COPYRIGHT © MBI COMPANIES INC. 2023 THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION PROJECT:
4	CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
3	PROJECT NO.: 220042-02 ACTIVE DESIGN PHASE
2	KEY PLAN
	SHEET INFORMATIONSHEET ISSUED:10/06/2023DESIGNED BY:CMGDRAWN BY:MDCREVIEWED BY:CMGSHEET TITLE:
1	LIFE SAFETY INFORMATION SHEET NO.: A001

<u>TFM # 00017-D</u> PROJECT # 2023-10-31-01



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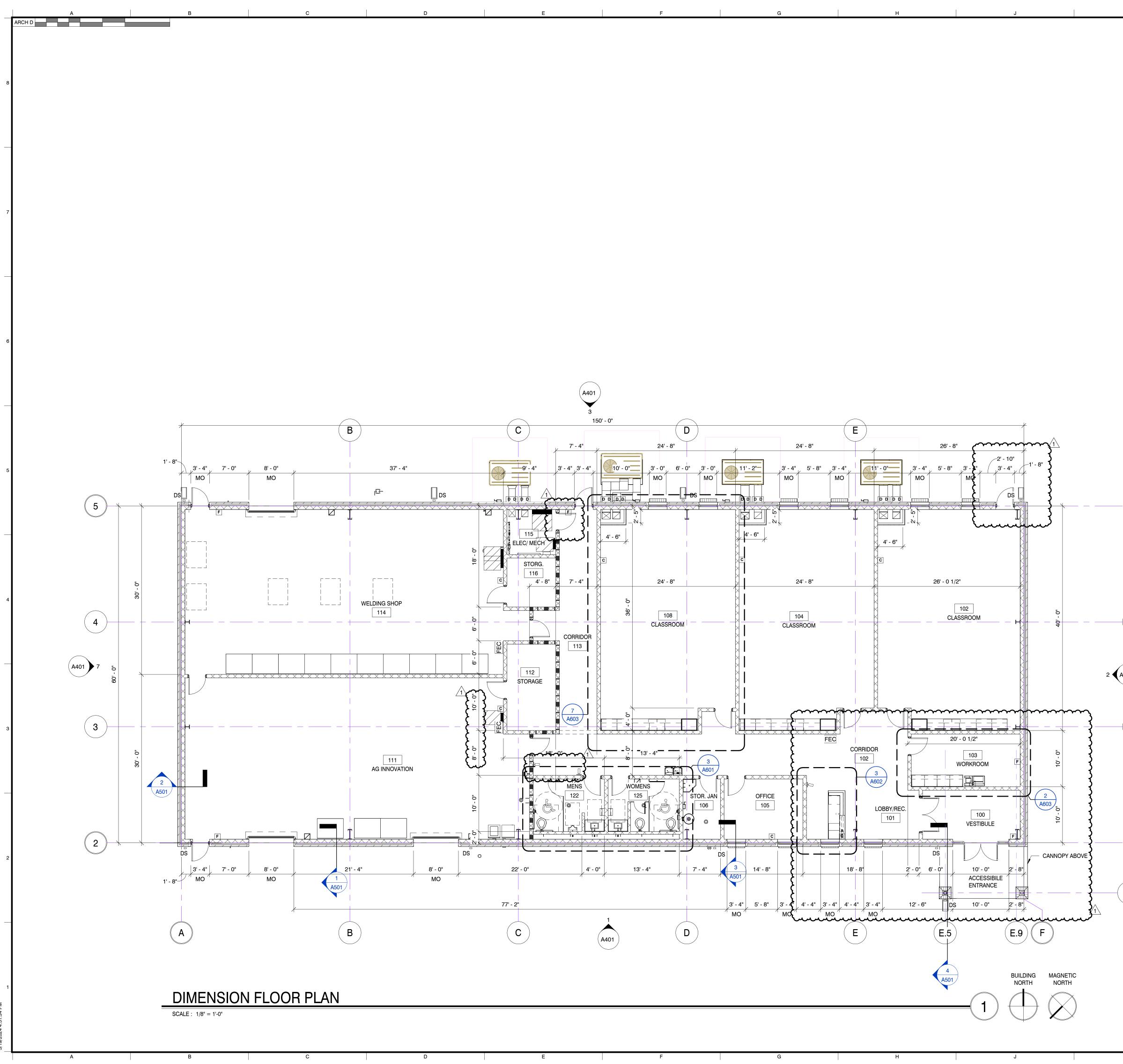
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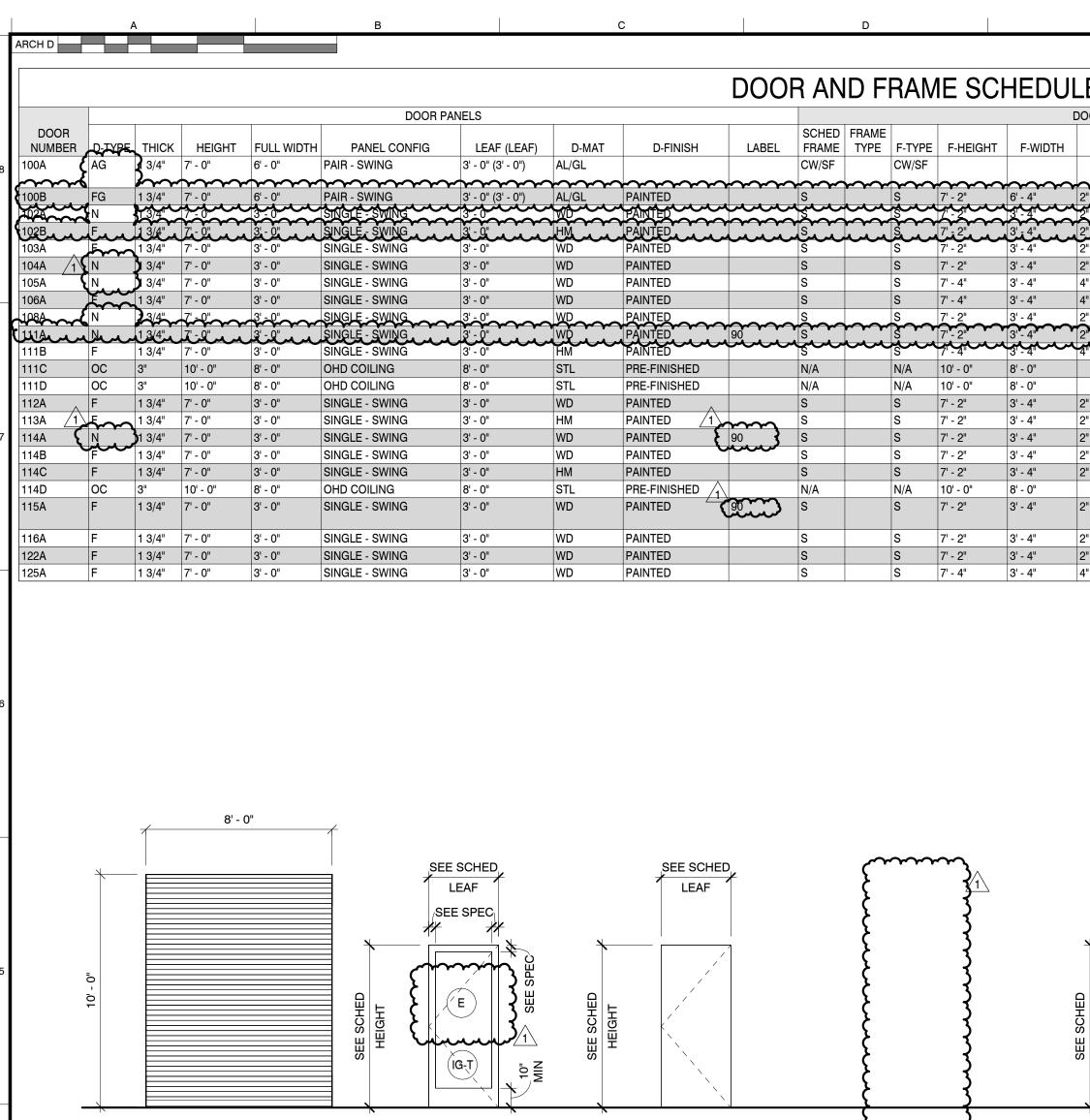
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SD 1 2 4	FLOOR PLAN KEYNOTES	
ALL - BRICK VENEER ON MTL STUD ION - MTL STUD WALL ION - CMU WALL ION - CMU WALL ION - <u>2 HOUR</u> - CMU WALL - SEE UL905 TS - SEE STRUCTURAL SHEETS TO STRUCTURE ABOVE @ 4'-0" O.C. MINIMUM. ET ON A0.x FOR MORE INFORMATION INFORMATION ON EXTERIOR WALL CONSTRUCT O UNLESS OTHERWISE NOTED 5-3-0 UNLESS OTHERWISE NOTED	 ALIGN FINISHES CONCRETE FLOOR WITH INTERGRAL 4" WALL BASE REMOVABLE LAVATORY VANITY - ANGLED APRON PRE-ENGINEERED METAL BUILDING COLUMN MILLWORK - REFER TO INTERIOR ELEVATIONS MOP SINK - SEE PLUMBING. PROVIDE 48" HIGH FRP PANEL WAINSCOT AT SIDE AND REAR WALL WALL-MOUNTED MOP AND BROOM RACK FURNITURE - (N.I.C.) WASHER - (O.F.C.I.) DRYER - (O.F.C.I.) DG WASH STATION - (O.F.C.I.) EYE WASH STATION - (O.F.C.I.) EYE WASH STATION HOSE BIB 24" A.F.F. FLOOR DRAIN PACKAGED UNIT CLEARANCE 	8 MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999 FAX: (865) 584-5213
TYPE TAG CORE THICKNESS SD 10 2 A ADDITIONAL COMPONENTS	 17. DRYER VENT THRU 18. PACKAGED UNIT 19. GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI 20. FIRE DEPARTMENT INLET CONNECTION 21. HOT WATER HEATER 22. CEILING RETRACTABLE COIL EXTENSION CORD REEL 23. SPLASHBLOCK 24. CAMERA SYSTEM THAT MONITORS EACH ENTERANCE HALLY MOUNTING HEIGHT TO BE VERIFIED WITH OWNER. 25. PRINTER - (0.F.C.I.) 26. FIRE ALARM CONTROL PANEL 27. PANELBOARD 28. PROVIDE GROMMETS IN OPEN COUNTER WORKSTATIONS. GROMMET LOCATIONS TO BE VERIFIED BY OWNER. 29. KNOX BOX FOR FIRE DEPARTMENT AND EMERGENCY SERVICES. 	WEB: mbicompanies.com CONSULTANT 7 MAY. SEAL
DESIGN NO. U905		6
17, 2004 Ig Wall Rating — 2 HR. Paring Wall Rating — 2 HR Restricted for Canadian Applications — See Guice 3/4 1000 000000000000000000000000000000000		COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE COMMERCE
	Horizontal Section	5 COPYRIGHT © MBI COMPANIES INC. 2023
Id cement (proportioned by volume) and not more f Iand Cement Stucco or Gypsum Plaster — Add 1 co must be applied on the face opposite framing to se Masonry Fill — If all core spaces are filled with ulite masonry fill insulation, or silicone treated perlit	turers. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand than 50 percent hydrated lime (by cement volume). Vertical joints staggered. /2 hr to classification if used. Where combustible members are framed in wall, achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1). loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water r	plaster PROJECT INFORMATION ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
(A401		4 PROJECT ADDRESS: 4 ⁴¹¹ DOUGLAS LN CLINTON, TN 37716 PROJECT NO.: 220042-02 ACTIVE DESIGN PHASE FOR REVIEW ONLY PROJECT NO.: 220042-02 ACTIVE DESIGN PHASE FOR REVIEW ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET REVISION INFORMATION NO. DATE DESCRIPTION NO. DATE DESCRIPTION 1 01.29.2024 ADDENDUM #01 3 05.20.2024
		SHEET INFORMATION SHEET ISSUED: 10/06/2023 DESIGNED BY: CMG DRAWN BY: MDC REVIEWED BY: CMG SHEET TITLE: 1
		NOTED FLOOR PLANS
	<u>TFM # 00017-D</u> <u>PROJECT # 2023-10-31-0</u>	<u>01</u> SHEET NO.: A101
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		ARE REQUI	RED 1	O BE KEPT ON THE	
	WALL LEGEND	SD 10 2 A	ITIL A	FINAL CERTIFICATE	
	EXTERIOR WALL - BRICK VENEER ON MTL STUD	COMPLET	PANC	ORM 3 ISSUED BY	
	EJ			DFFICE.	
	WALL PARTITION - MTL STUD WALL	No alterati	ions, de	eletions, additions or	
	WALL PARTITION - CMU WALL	modifications	or any et with	kind are allowed to this out written permission	
	WALL PARTITION - <u>2 HOUR</u> - CMU WALL - SEE UI	-905		office.	
	 EJ = EXPANSION JOINT FOR MASONRY EXPANSION JOINTS - SEE STRUCTURAL SHEETS 		TATE	FIRE MARSHAL MEI COMPANIES INC. 299 N. WEISGARBER ROAD	
	 BRACE ALL METAL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C SEE INTERIOR WALL TYPES SHEET ON A0.x FOR MORE INFORMATIC SEE WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL 	N		KNOXVILLE, TN 37919 PHONE: (865) 584-0999	
	 INTERIOR WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL INTERIOR WALLS ARE TYPE S-3-0 UNLESS OTHERWISE NOTED INTERIOR FURRINGS ARE TYPE F-3-0 UNLESS OTHERWISE NOTED 	CONSTRUCTION		FAX: (865) 584-5213 WEB: mbicompanies.com	
				CONSULTANT	
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	WALL TYPE TAG				[
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	FIRE RATING ADDITIONAL COMPONENTS				S
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			5	THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS,	Ċ
				SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY	CC
				ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.	‡
				PROJECT INFORMATION PROJECT:	È
				CLINTON HIGH	Ć
				SCHOOL WELDING	Ц
				AND AGRICULTURE BUILDING	
				PROJECT ADDRESS:	
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—(4)				411 DOUGLAS LN CLINTON, TN 37716	
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A401				FOR PERMITTING ONLY SCHEMATIC DESIGN	F
				DESIGN DEVELOPMENT CONSTRUCTION BIDDING	L U
				CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET	С
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				SHEET ISSUED:10/06/2023DESIGNED BY:CMG	
				DRAWN BY: MDC REVIEWED BY: CMG	
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	{ <u>TFM # 00017-D</u>		3	SHEET NO.:	
	{ <u>PROJECT # 2023-</u>	<u>10-31-01</u>	3	A102	
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DOOR TYPES

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

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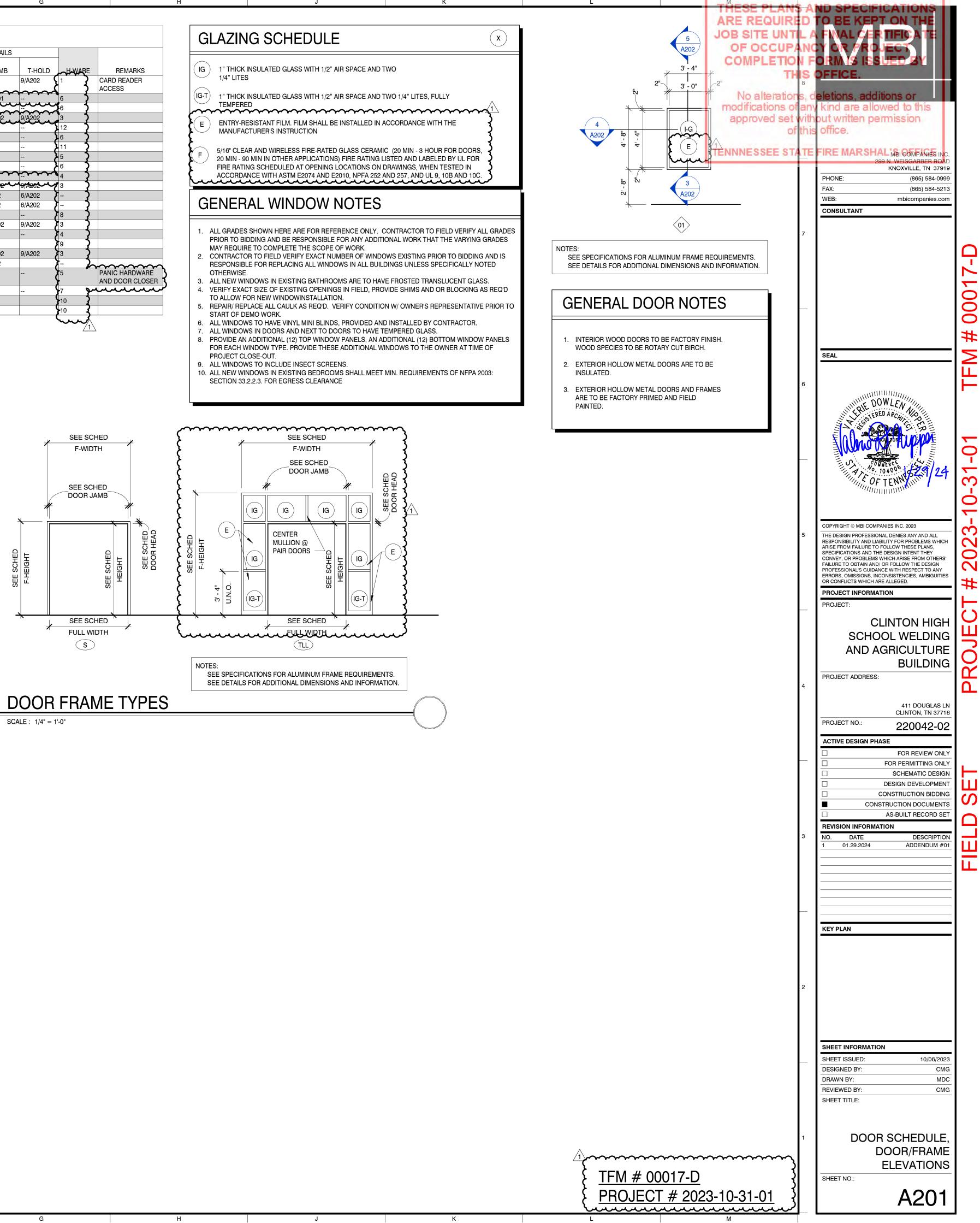
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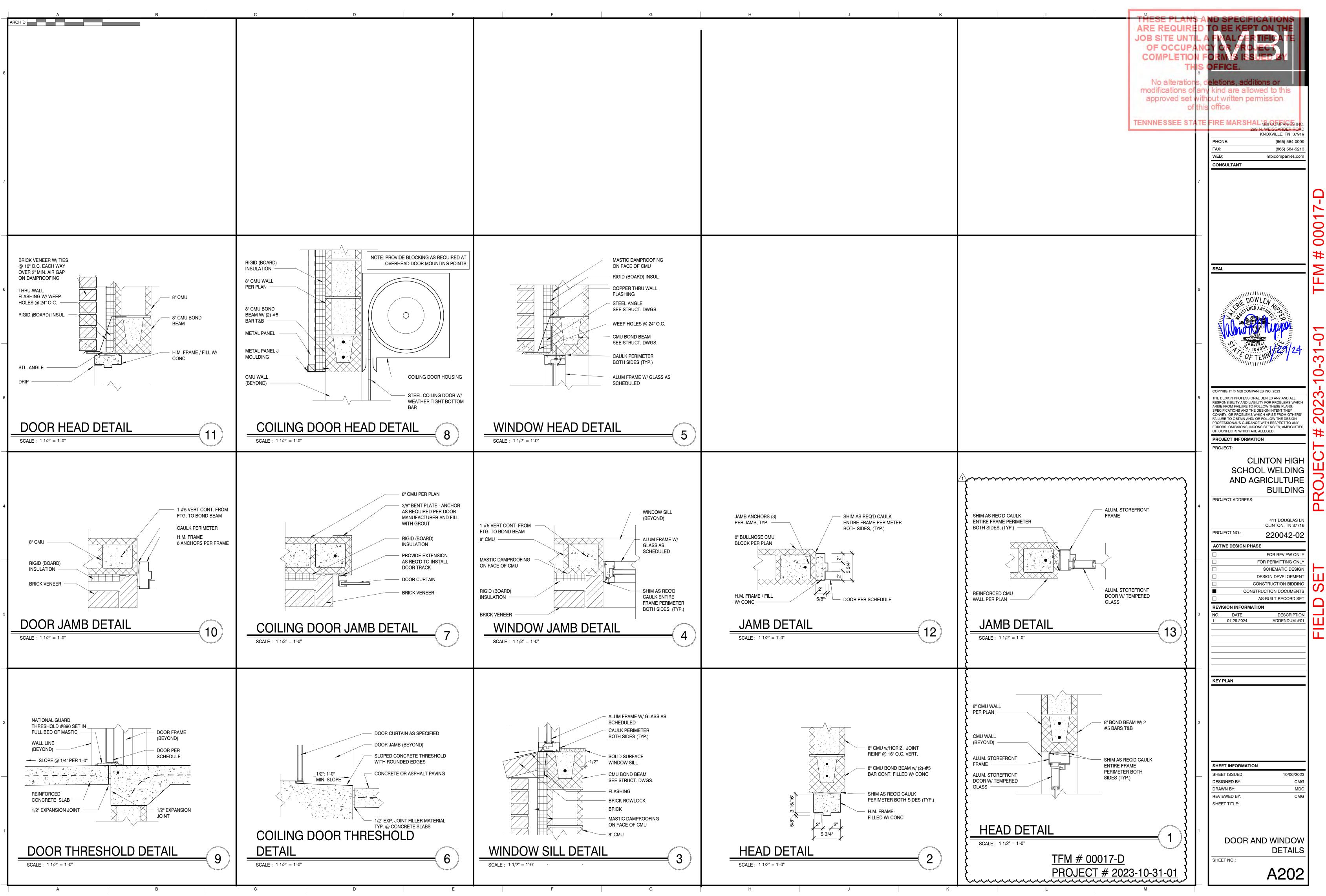
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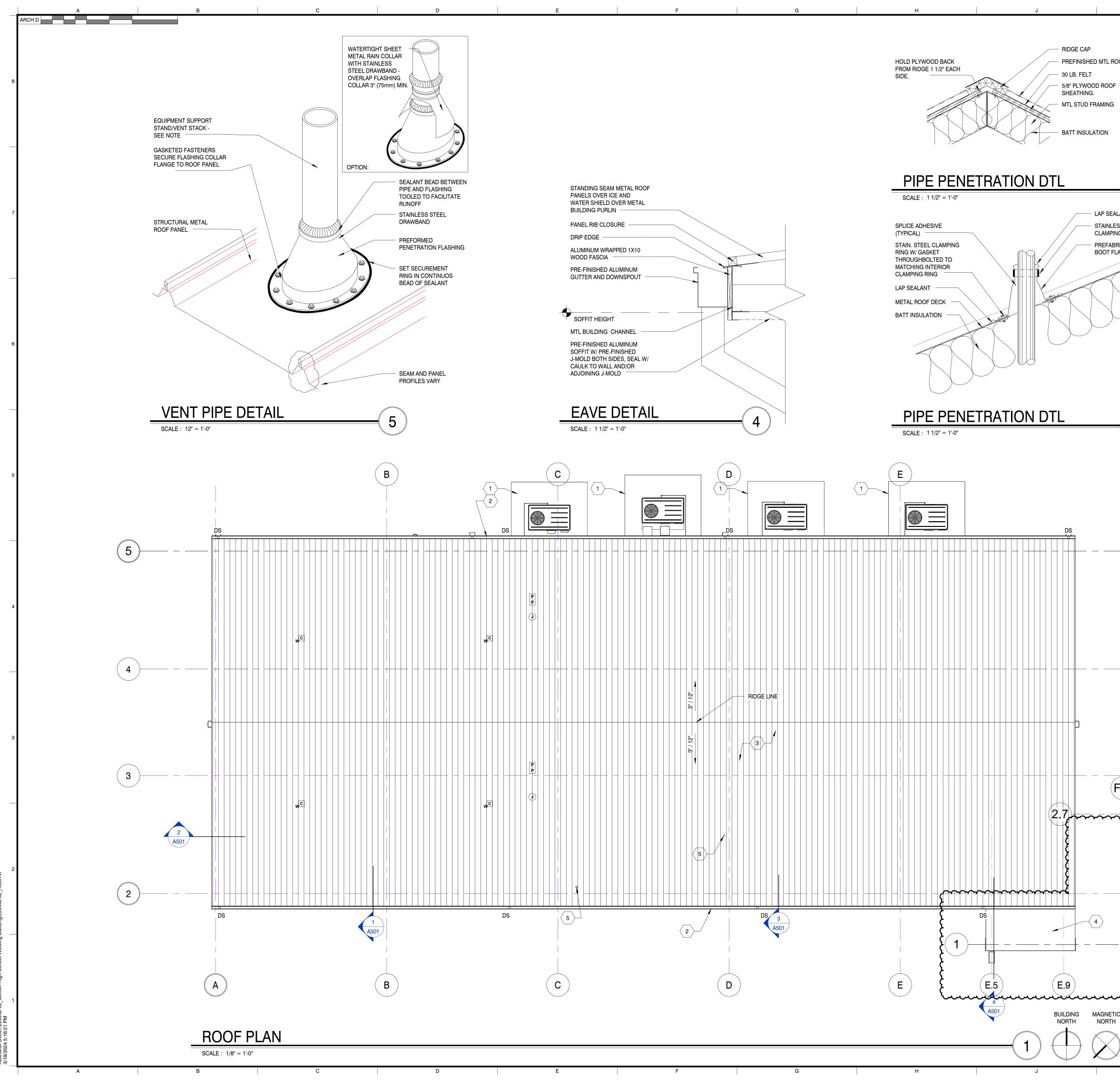
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DOOR FRAME	1	T	1		DETAILS	1				
DOOR HEAD	D DOOR JAMBS	F-MAT	F-FINISH	HEAD	JAMB	T-HOLD	HWARE	REMARKS		IG 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO 1/4" LITES
		NA				9/A202	1	CARD READER ACCESS		
		HM	PAINTED	1/A201	13/A201		\mathbf{A}_{6}	ACCESS		G-T) 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO
	<u>ninn</u>		PAINTED	2/A201	2/A201	سميه	\mathbf{x}_{6}°			TEMPERED
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2"	2"	НМ	PAINTED	2/A201	2/A201		x ₆		─ { `	
4"	2"	НМ	PAINTED	2/A201	2/A201		X 11 X		─ १	5/16" CLEAR AND WIRELESS FIRE-RATED GLASS CERAMIC (2
4"	2"	НМ	PAINTED	2/A201	2/A201		2 5		📃 🦉 F	F 20 MIN - 90 MIN IN OTHER APPLICATIONS) FIRE RATING LIST
2"	2"	HM	PAINTED	2/A201	2/A201		} 6 }		{	FIRE RATING SCHEDULED AT OPENING LOCATIONS ON DRA
2"	- 2 ²	HM	PAINTED	2/A201	2/A20		<u> </u>		\	ACCORDANCE WITH ASTM E2074 AND E2010, NPFA 252 AND
4	2	HM	PAHNHED	41/2020		19/A2021	₹ 3 }			
		STL	PRE-FINISHED	8/A202	7/A202	6/A202	{}			
		STL	PRE-FINISHED	8/A202	7/A202	6/A202	<u>{</u> <u>}</u>			GENERAL WINDOW NOTES
2"	2"	HM	PAINTED	2/A201	2/A201		$\left\{ \begin{smallmatrix} 8 \\ 0 \end{smallmatrix} \right\}$			
2" 2"	2" 2"	HM HM	PAINTED	11/A202 2/A201	10/A202 2/A201	9/A202	$\{ 3 \}$		<u> </u>	1. ALL GRADES SHOWN HERE ARE FOR REFERENCE ONLY. CON
2"	2"	HM	PAINTED	2/A201 2/A201	2/A201 2/A201		$\begin{cases} 4 \\ 0 \end{cases}$			PRIOR TO BIDDING AND BE RESPONSIBLE FOR ANY ADDITION
2"	2"	HM	PAINTED	11/A202	10/A202	9/A202				MAY REQUIRE TO COMPLETE THE SCOPE OF WORK.
		STL	PRE-FINISHED	8/A202	7/A202		<u>}</u> }			 CONTRACTOR TO FIELD VERIFY EXACT NUMBER OF WINDOWS RESPONSIBLE FOR REPLACING ALL WINDOWS IN ALL BUILDING
2"	2"	HM	PAINTED	2/A201	2/A201		2 5	PANIC HARDWARE AND DOOR CLOSE		OTHERWISE. 3. ALL NEW WINDOWS IN EXISTING BATHROOMS ARE TO HAVE FI
2"	2"	НМ	PAINTED	2/A201	2/A201		§7 9	mm	4	4. VERIFY EXACT SIZE OF EXISTING OPENINGS IN FIELD, PROVIDE
2"	2"	НМ	PAINTED	2/A201	2/A201		10			TO ALLOW FOR NEW WINDOWINSTALLATION.
4"	2"	НМ	PAINTED	2/A201	2/A201		10		5	 REPAIR/ REPLACE ALL CAULK AS REQ'D. VERIFY CONDITION W START OF DEMO WORK.
								7	7 8 9	 ALL WINDOWS TO HAVE VINYL MINI BLINDS, PROVIDED AND IN ALL WINDOWS IN DOORS AND NEXT TO DOORS TO HAVE TEMP PROVIDE AN ADDITIONAL (12) TOP WINDOW PANELS, AN ADDIT FOR EACH WINDOW TYPE. PROVIDE THESE ADDITIONAL WINDO PROJECT CLOSE-OUT. ALL WINDOWS TO INCLUDE INSECT SCREENS. ALL NEW WINDOWS IN EXISTING BEDROOMS SHALL MEET MIN SECTION 33.2.2.3. FOR EGRESS CLEARANCE
	SEE SCHED LEAF				SCHED		SEE SC F-WID SEE SC DOOR J	TH HED_	DOOR HEAD	SEE SCHED F-WIDTH SEE SCHED DOOR JAMB (G) (G) (G) (G) (G) (G) (G) (G) (G) (G)

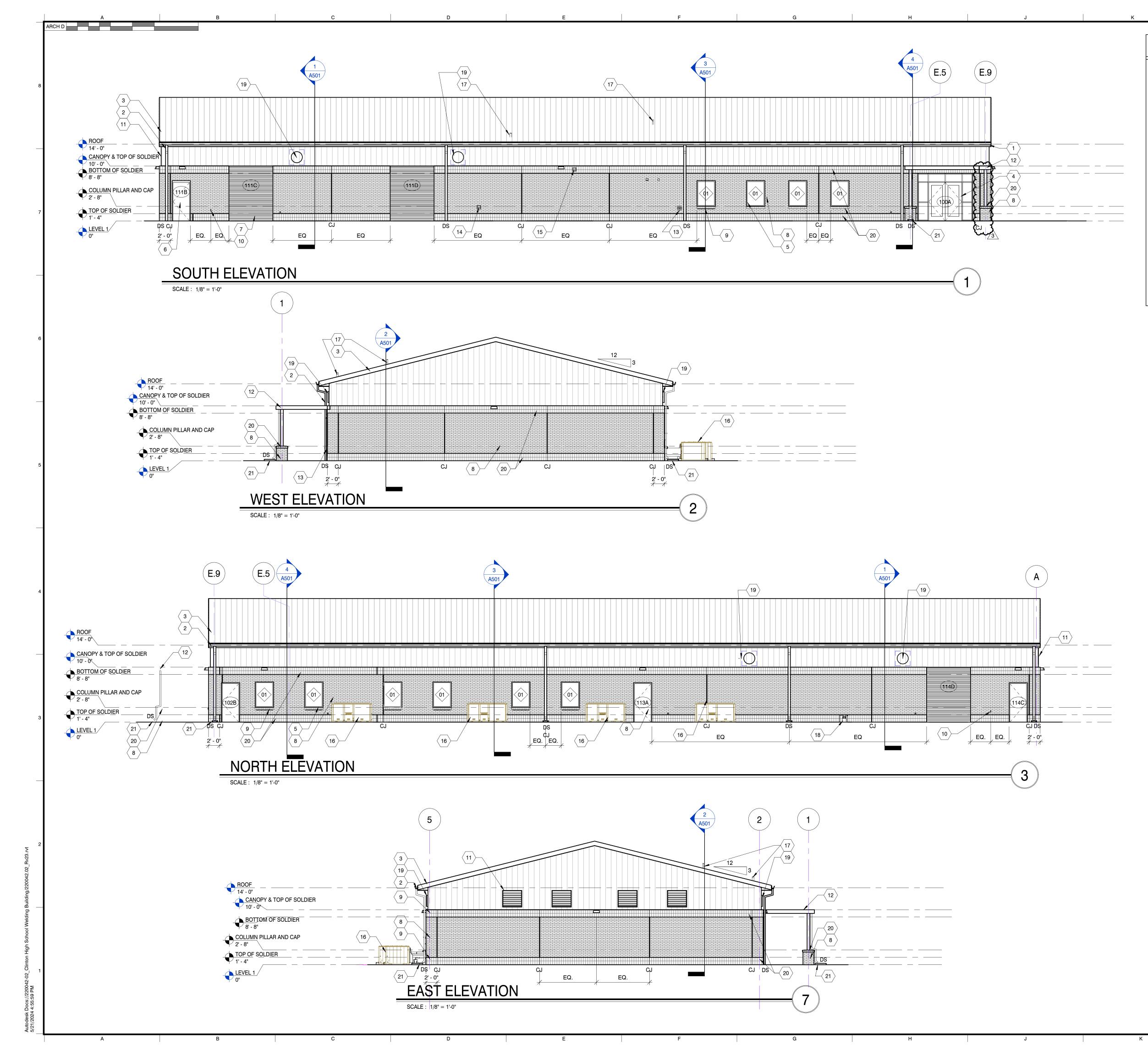
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к	L	MEGERIAN		
		RE REQUIRED	TO BE KEPT ON THE	
DOFING	1. CONTRACTOR SHALL FIELD VERIFY NUMBER, TYPE, AND LOCATIONS OF AL EQUIPMENT, INCLUDING BUT NOT LIMITED TO SATELLITE DISHES, HVAC UI VENT PIPES, ETC. THAT WILL AFFECT HIS SCOPE OF WORK. CONTRACTOR IN HIS BID ALL NECESSARY WORK TO COORDINATE THE INSTALLATION OF	NITS, FANS, SHALL INCLUDE NEW WORK	ORM IS ISSUED BY OFFICE.	
	 WITH EXISTING UTILITIES AND EQUIPMENT. 2. THE CONTRACTOR SHALL AT ALL TIMES PROTECT ALL EXISTING INTERIOR EXPOSED DURING CONSTRUCTION AGAINST DAMAGE DUE TO WEATHER OF CONSTRUCTION. 3. REUSE EXISTING CURBS, THOSE CURBS THAT ARE TOO SHORT BECAUSE 	approved set with	deletions, additions or y kind are allowed to this hout written permission s office.	
	 INSULATION SHALL RECEIVE NEW TALLER NAILERS AT TOP OF CURB. 4. COORDINATE STAGING AREAS AND CONSTRUCTION ACCESS WITH OWNE START OF CONSTRUCTION. 5. REPAIR AND RESEED ANY EXISTING GRASS AREAS DISTURBED DURING CO OR STAGING. 	NNNESSEE STATE		
- 3	 PROVIDE SPLASH BLOCKS ON 24" X 24" PROTECTION MATS AT ALL EXISTIN FROM HIGH ROOF. VERIFY QUANTITY NEEDED IN FIELD PRIOR TO BIDDING COORDINATE STAGING AREA AND CONSTRUCTION ACCESS WITH OWNER OF CONSTRUCTION PROVIDE GUTTER EXPANSION JOINTS AT 48' MAX. O.C. AND 24' MAX. FROM 	PRIOR TO START	PHONE: (865) 584-0999 FAX: (865) 584-5213 WEB: mbicompanies.com CONSULTANT	
LANT SS STEEL	ROOF PLAN KEYNOTES	7		0
ig ring Ricated Ashing	 CLEARANCE OF OUTDOOR UNIT PRE-FINISHED ALUMINUM GUTTER & DOWNSPOUT STANDING SEAM ROOF PREMANUFACTURED CANOPY 			17-D
	5. ROOF VENT PIPE SEE DETAIL 2/A301			€ 000
			SEAL	FM #
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2			OF TENNING	-31-
		5	COPYRIGHT © MBI COMPANIES INC. 2023 THE DESIGN PROFESSIONAL DENIES ANY AND ALL	3-10
			RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.	£ 202
		_	PROJECT INFORMATION PROJECT: CLINTON HIGH	CT #
			SCHOOL WELDING AND AGRICULTURE BUILDING	OJE
		4	PROJECT ADDRESS: 411 DOUGLAS LN	PROU
			CLINTON, TN 37716 PROJECT NO.: 220042-02 ACTIVE DESIGN PHASE	
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			□ CONSTRUCTION BIDDING ■ CONSTRUCTION DOCUMENTS □ AS-BUILT RECORD SET REVISION INFORMATION	DS
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			KEY PLAN	
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			REVIEWED BY: CMG SHEET TITLE:	
c C	$\frac{1}{2}$	······}	ROOF PLAN AND DETAILS	
	{ <u>TFM # 00017-D</u> { <u>PROJECT # 2023-</u>	<u>0-31-01</u>	SHEET NO.: A301	
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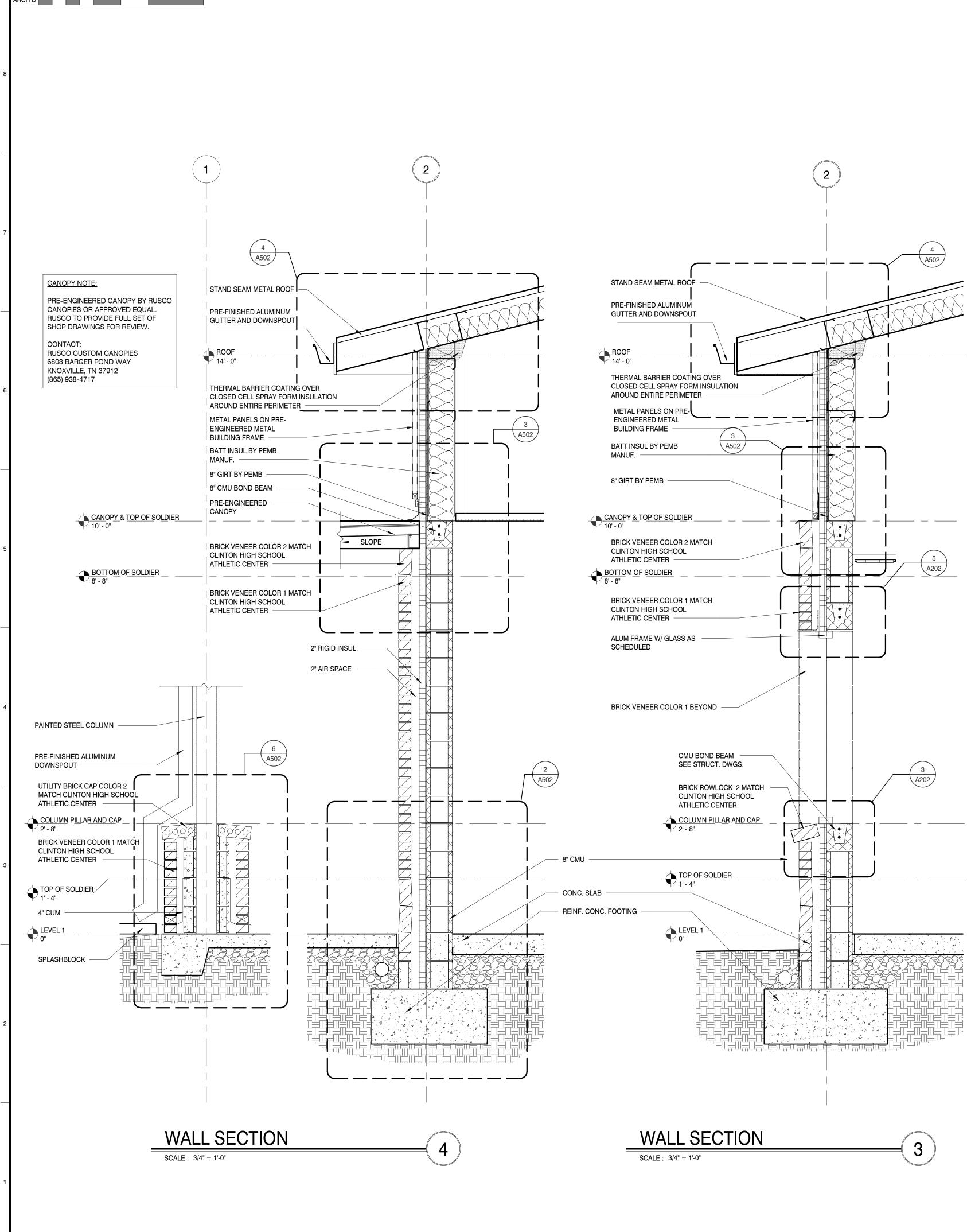
- 11. METAL BUILIDING LOUVERS
- 12. PRE-MANUFACTURED CANOPY 13. FIRE DEPARTMENT INLET CONNECTION - SEE FIRE PROTECTION DRAWINGS
- 14. DRYER VENT THRU SEE MECHANICAL DRAWINGS
- 15. EXHAUST FAN SEE MECHANICAL DRAWINGS
 16. PACKAGED UNIT SEE MECHANICAL DRAWINGS
- 17. ROOF VENT PIPE SEE DETAIL 2/A301
- 18. GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI 19. WALL EXHAUST FAN SEE MECHANICAL DRAWINGS
- 20. BRICK VENEER AND MORTAR COLOR 2 (GRAY) MATCH CLINTON HIGH SCHOOL ATHLETIC CENTER
- 21. SPLASHBLOCK
- ALL EXPOSED PIPING ON EXTERIOR OF BUILING TO BE PAINTED TO COLOR MATCH ADJACENT
- MATERIAL CJ - CONTROL JOINT (IN BRICK VENEER)
- DS PRE-FINISHED METAL GUTTER & DOWNSPOUT W/ DOWNSPOUT BOOT

	MBI
F	MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 HONE: (865) 584-0999 AX: (865) 584-5213 VEB: mbicompanies.com CONSULTANT
S	EAL
	COMMERCE OF TENNING
T R A S C F P E C	OPYRIGHT © MBI COMPANIES INC. 2023 HE DESIGN PROFESSIONAL DENIES ANY AND ALL ESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH RISE FROM FAILURE TO FOLLOW THESE PLANS, PECIFICATIONS AND THE DESIGN INTENT THEY ONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' AILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN ROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY RRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES IR CONFLICTS WHICH ARE ALLEGED.
	ROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
_	411 DOUGLAS LN CLINTON, TN 37716 ROJECT NO.: 220042-02 ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET
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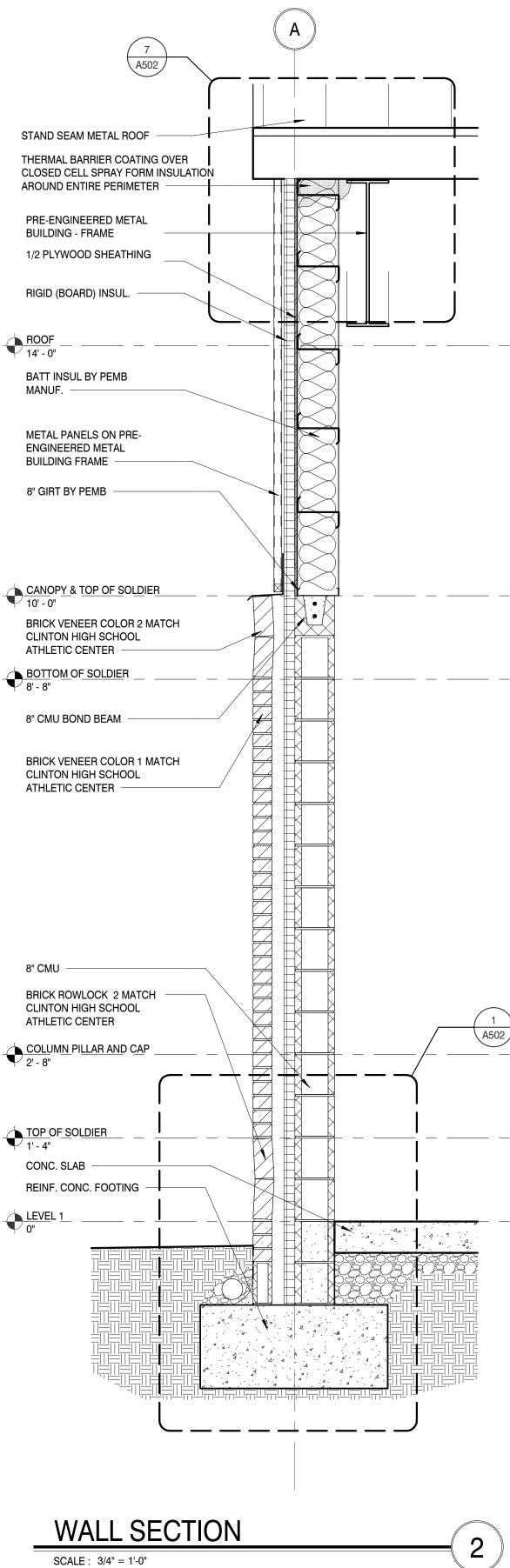
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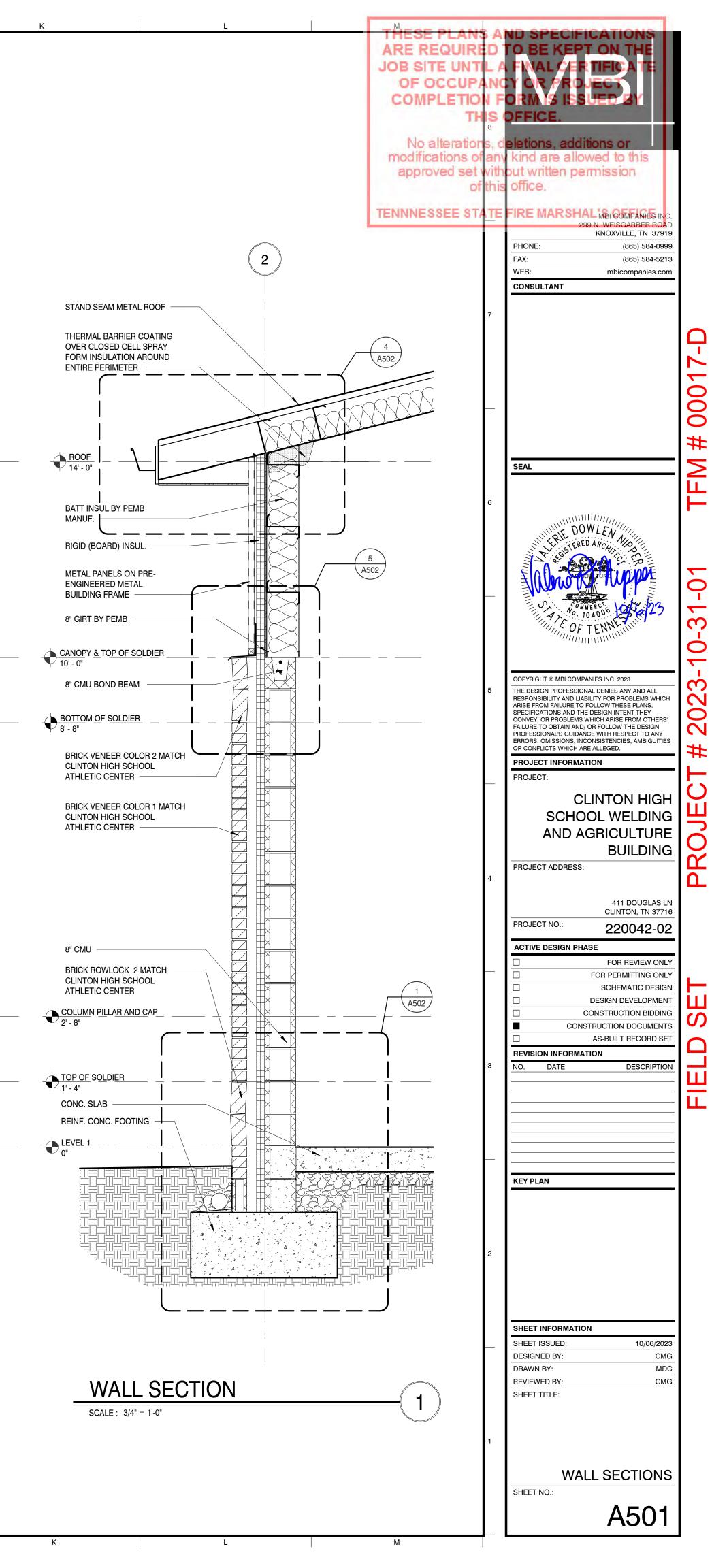
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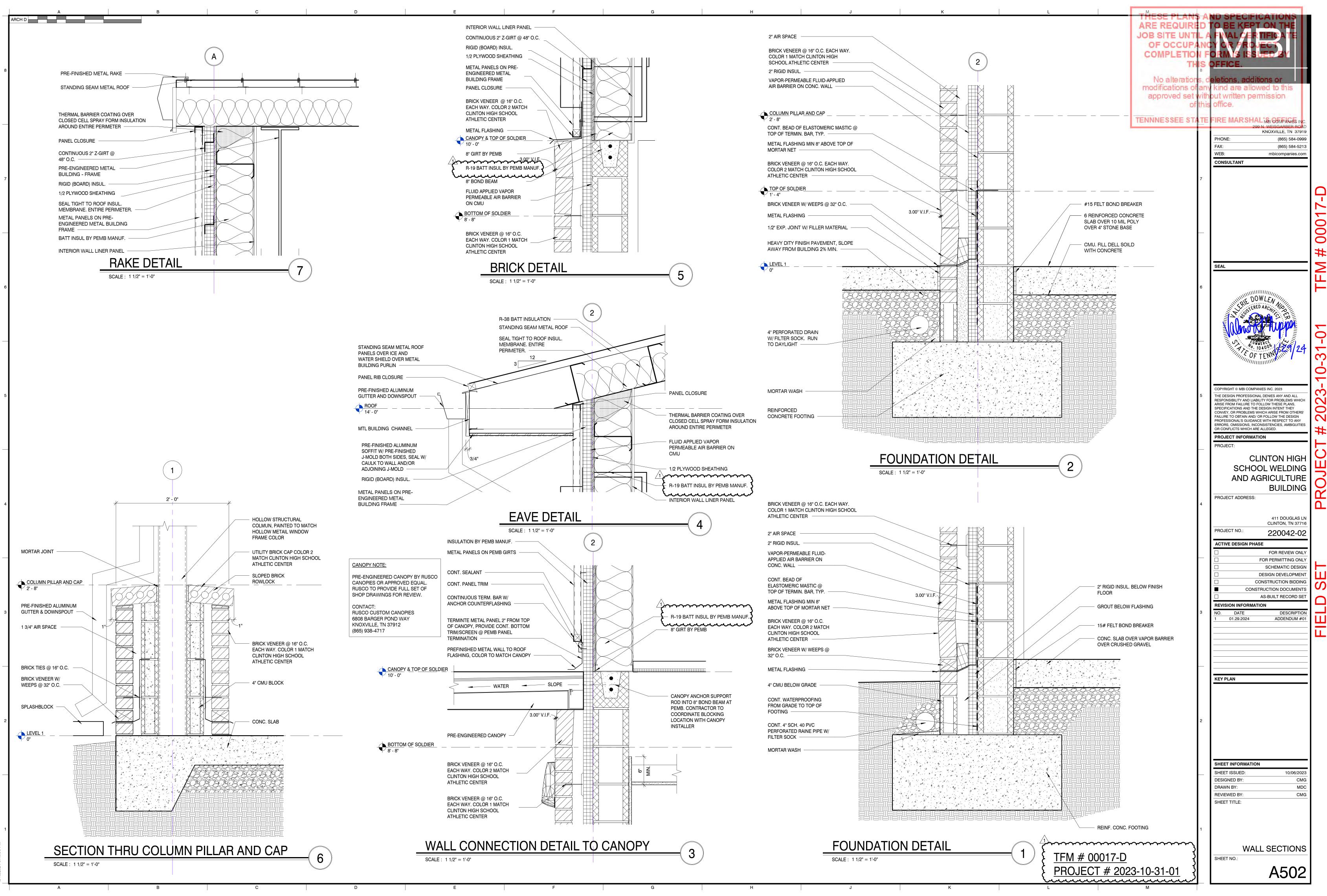
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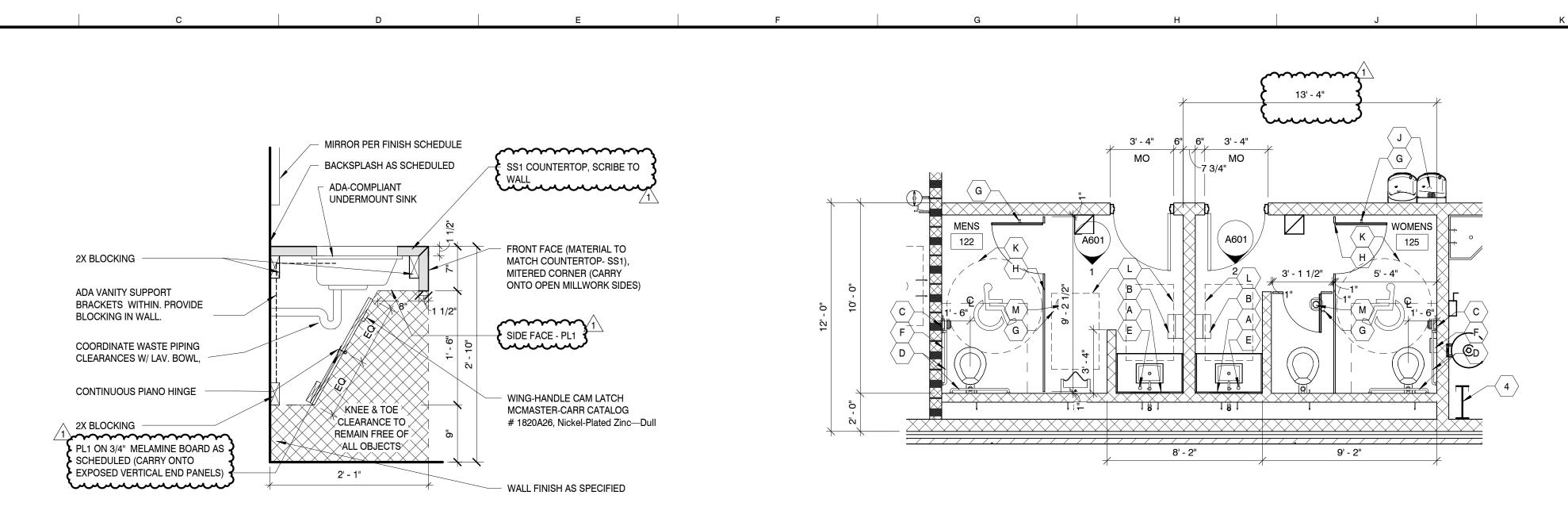


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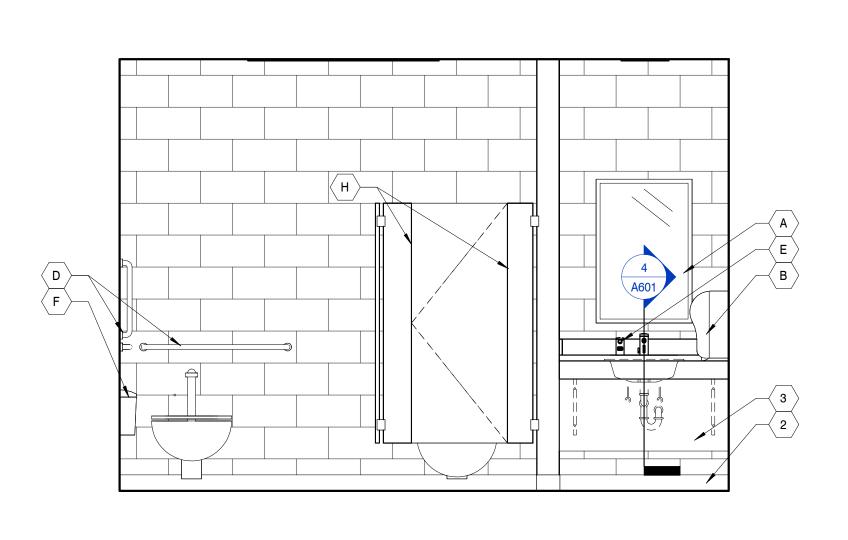
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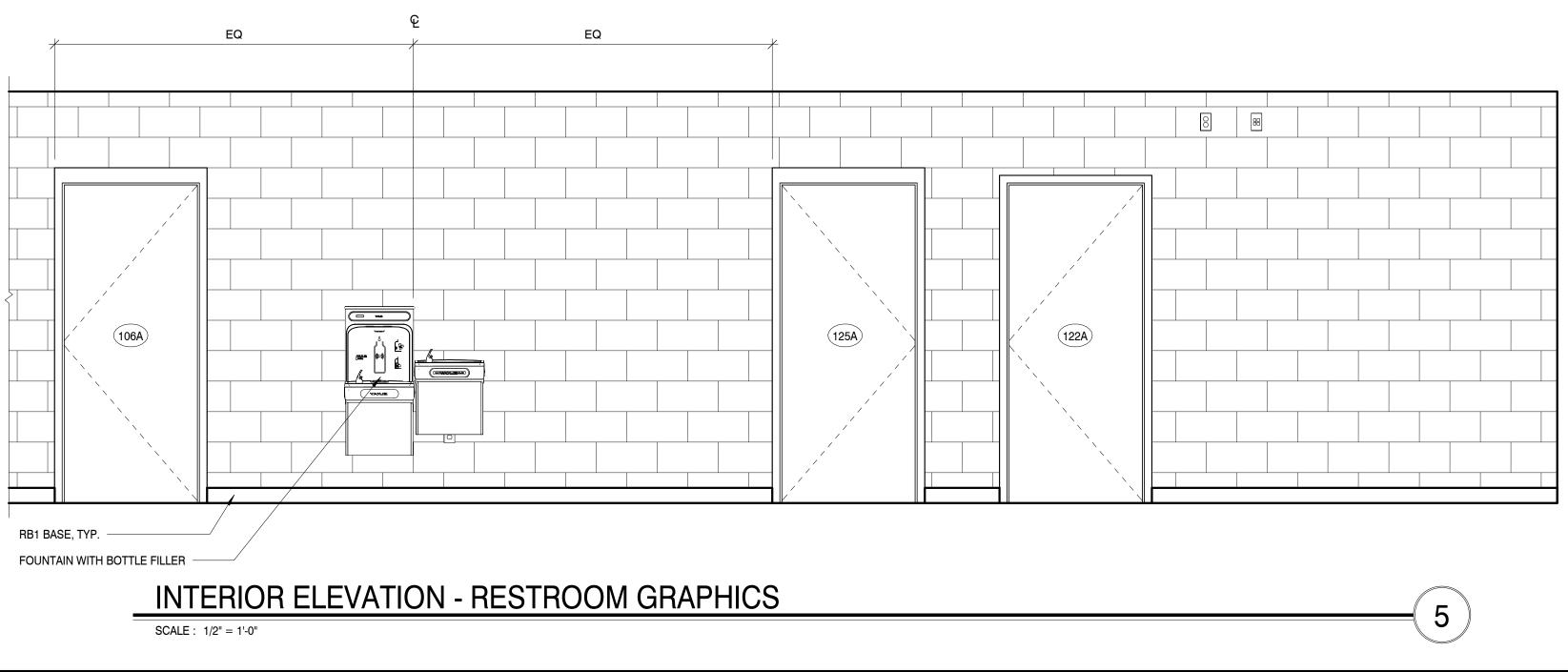
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SCALE : 1" = 1'-0"

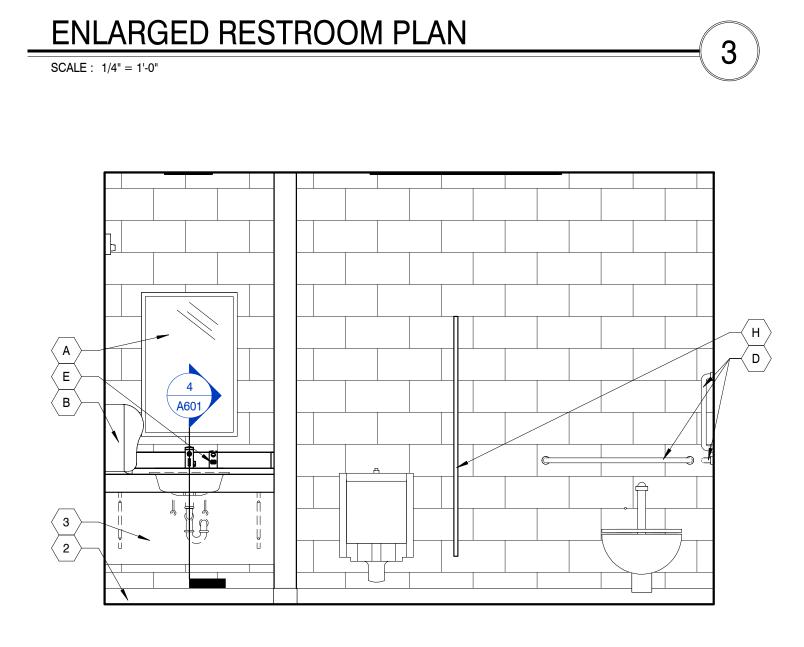


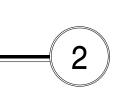
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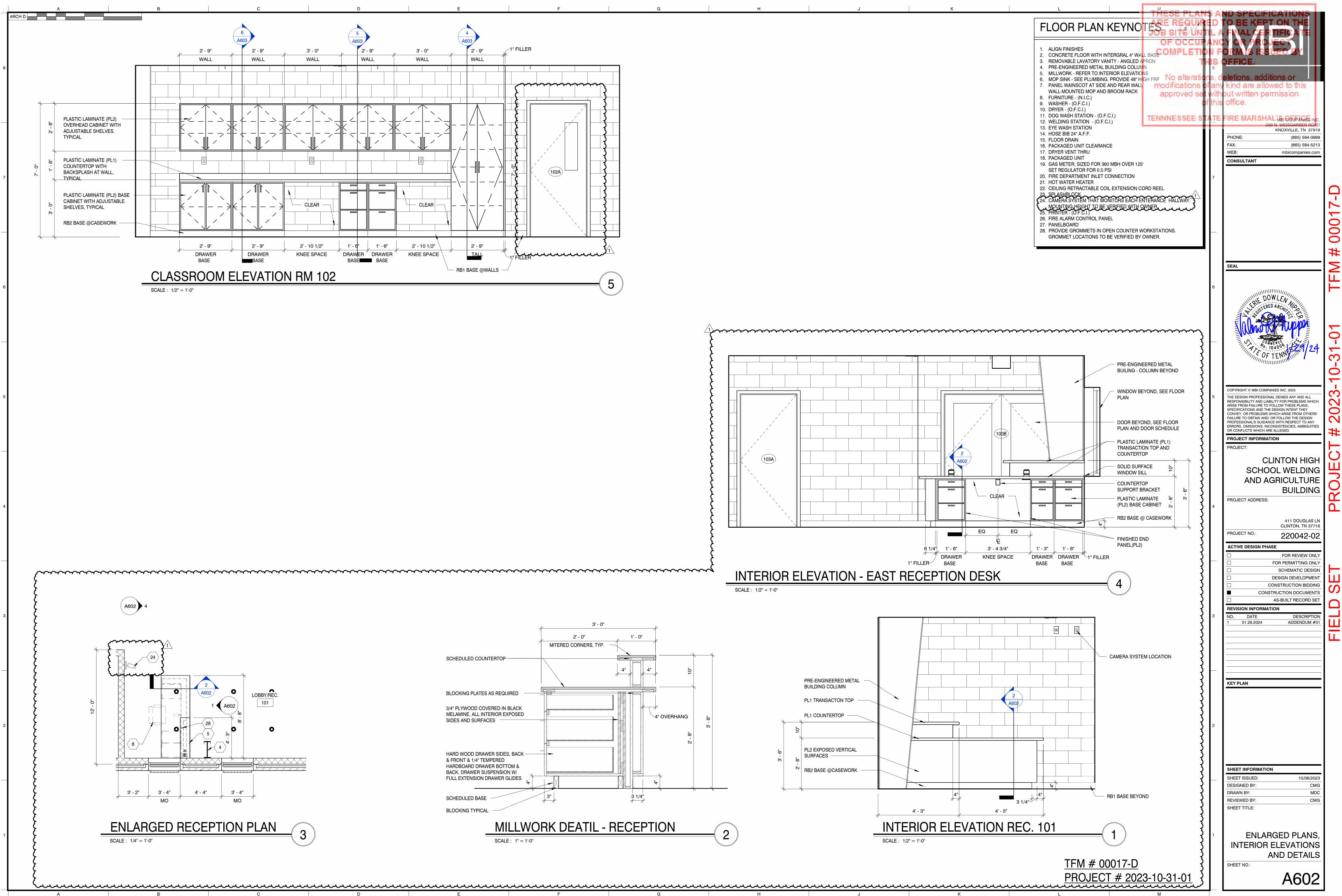


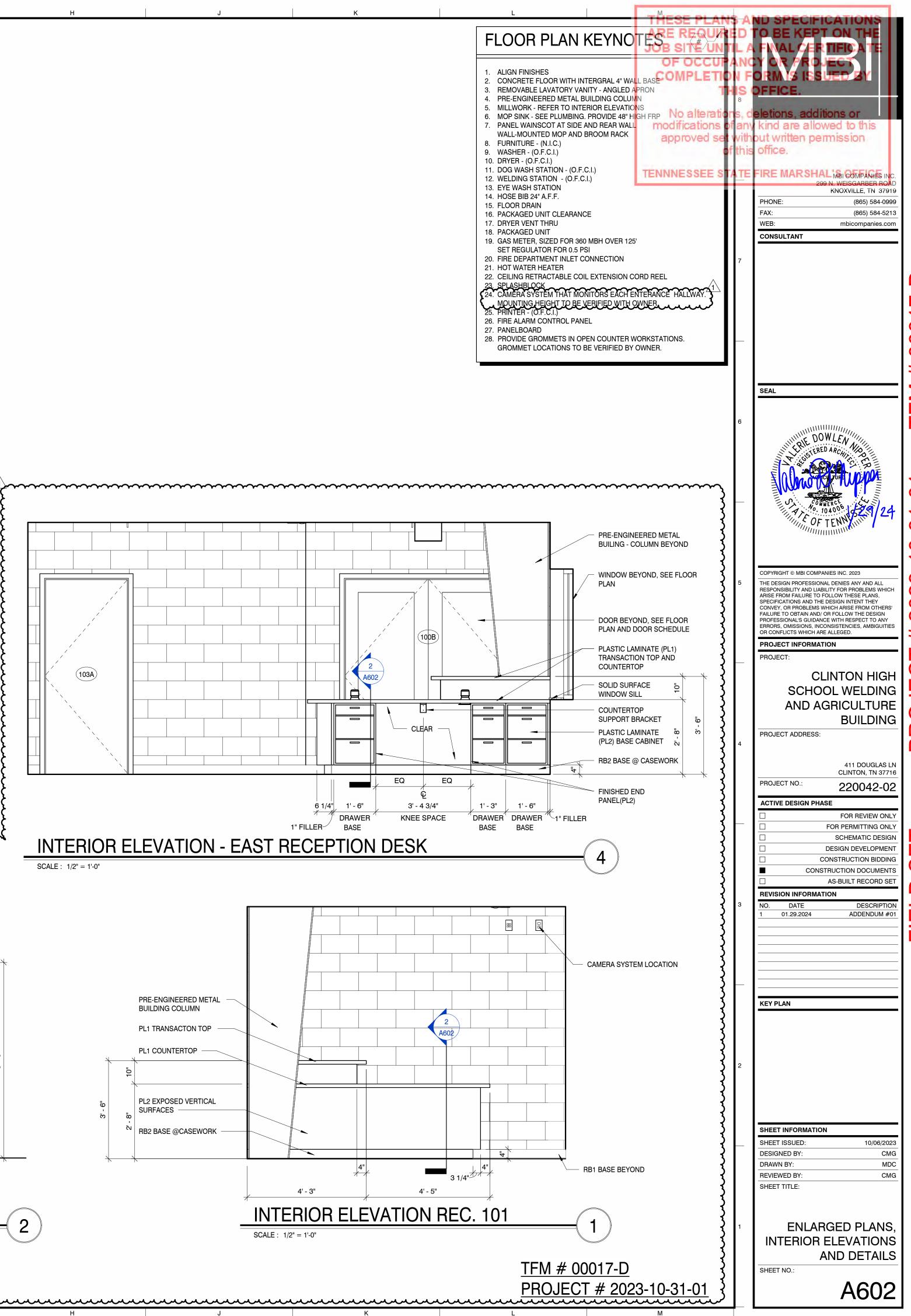
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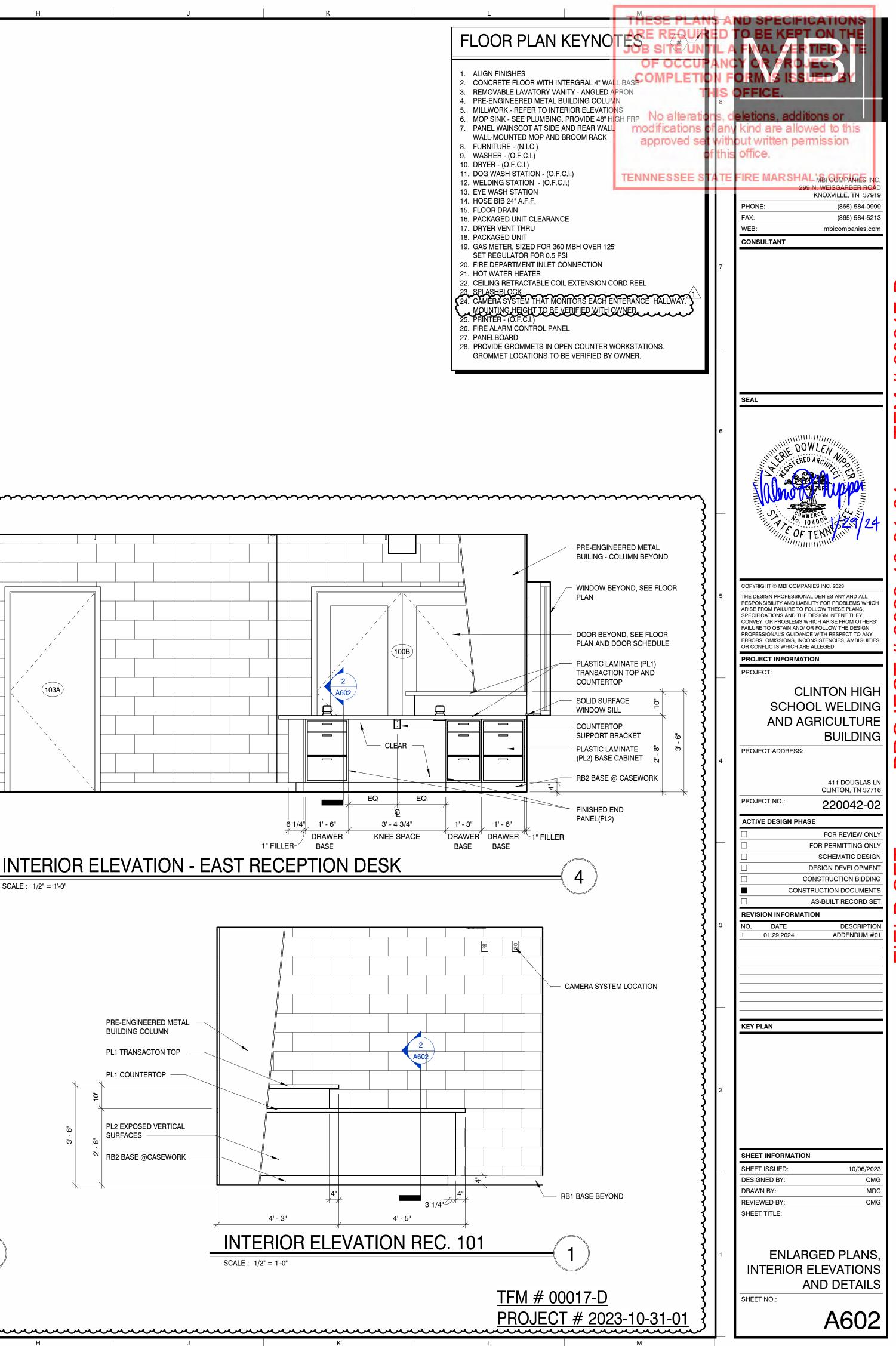
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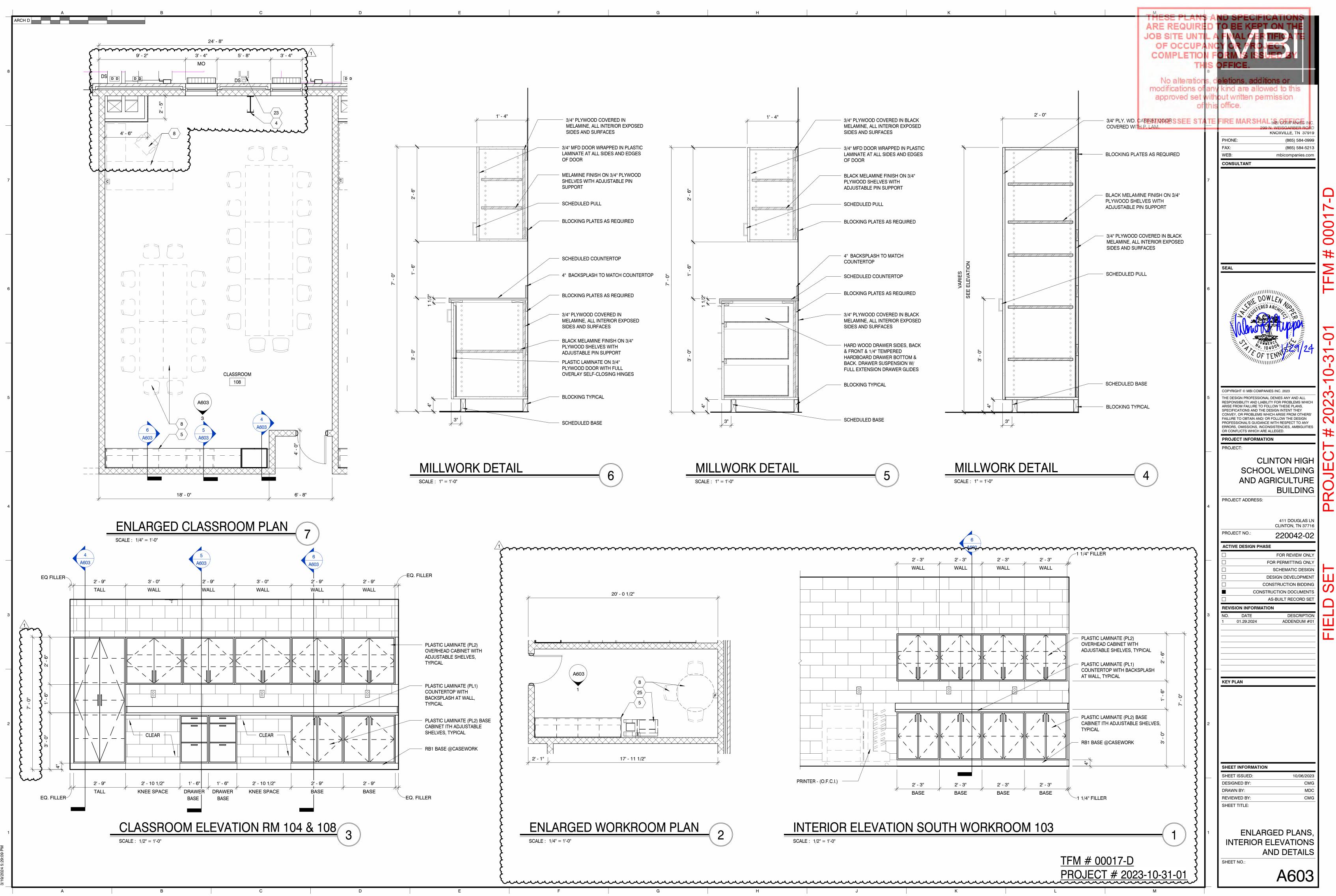
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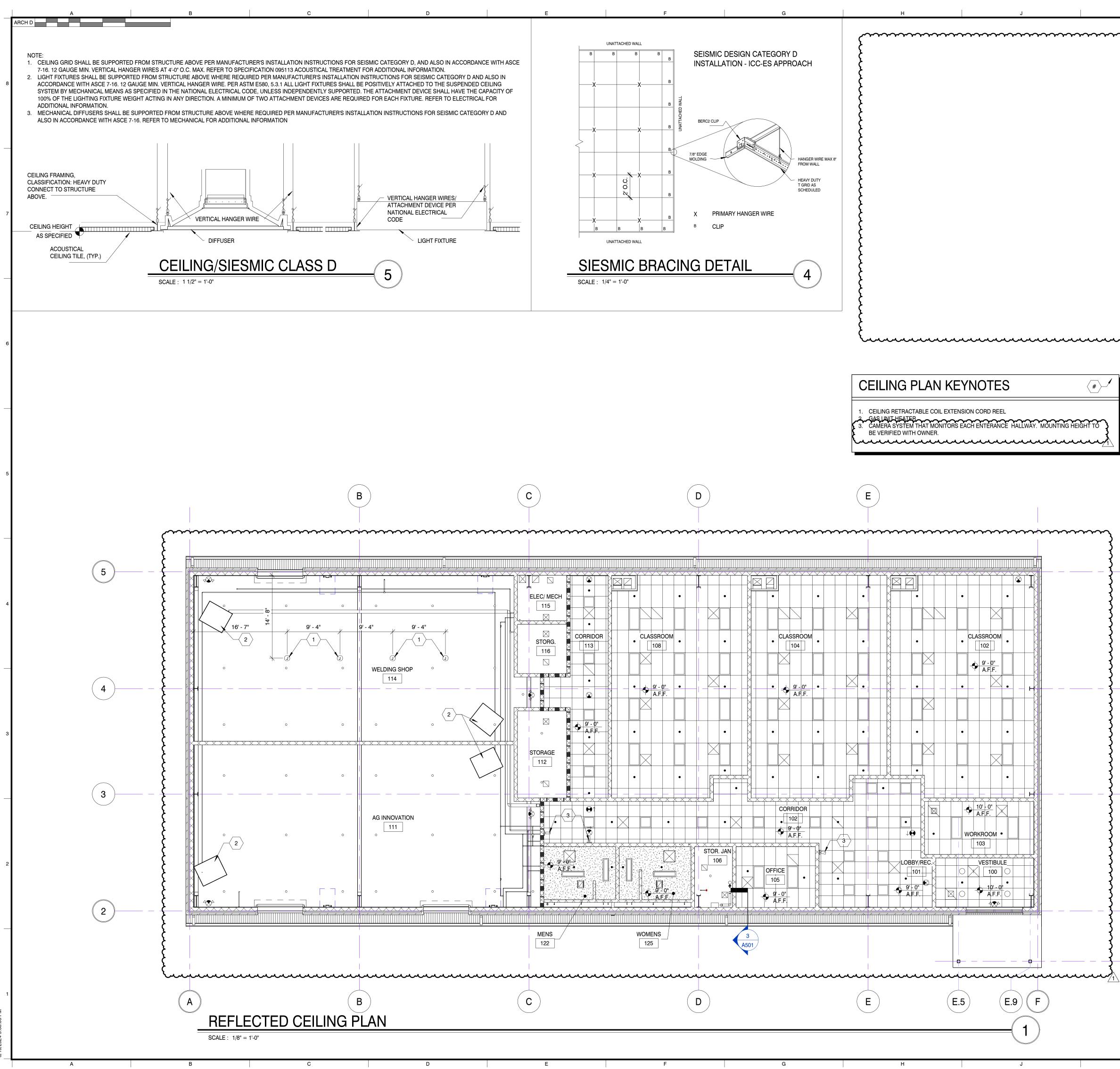
L		S A	
GENERAL PLUMBING NOTES	JOB SITE UN	EU TLA	FNAL FRIFICATE
1. ALL PLUMBING MATERIAL AND INSTALLATIONS SHALL BE IN ACCORDAN APPLICABLE CODES AND ORDINANCES.		ANC DN F	ORM & ISSUED BY
2. SEE PLUMBING DRAWINGS FOR LOCATIONS AND SIZES OF ACCESS PA	NELS.	HIS (OFFICE.
3. ALL FIXTURES AND ACCESSORIES SHALL COMPLY WITH THE CURRENT REGULATIONS FOR MOUNTING HEIGHTS AND CLEARANCES.	A.D.A., STATE OR LOCAD TO modifications of	ns, d of any	eletions, additions or kind are allowed to this
4. ALL HOT WATER AND DRAIN PIPES SHALL BE INSULATED PER A.D.A. RE HOT WATER SUPPLY INSULATION SHALL BE PRE-MOLDED FIBERGLASS WHITE ALL SERVICE JACKET. INSULATION THICKNESS SHALL BE MIN. 1 DRAWINGS.	QUIREMENTS, MINIMUM Set PIPE INSULATION WITH SEE PLUMBING	t with of this	out written permission office.
5. ALL GRAB BARS IN NEW CONSTRUCTION SHALL BE INSTALLED WITH CO	TENNNESSEE ST DNCEALED ANCHOR	ATE	FIRE MARSHAL MBI COMPANIES IN 299 N. WEISGARBER RO KNOXVILLE, TN 379
 PLATES. 6. THE FLUSH ACTIVATOR SHALL BE LOCATED ON THE WIDE CLEARANCE UNITS AND SHALL BE LEVER TYPE. THE FORCE TO ACTIVATE SHALL NO ACTIVATION SHALL BE WITHIN 40" OF FIN. FLOOR. 			PHONE: (865) 584-09 FAX: (865) 584-52 WEB: mbicompanies.com
7. LAVATORY FAUCET CONTROLS SHALL BE LEVER TYPE AND THE FORCE EXCEED 5 POUNDS.		7	CONSULTANT
 PROVIDE BLOCKING IN WALLS AS REQ'D FOR ALL FIXTURES AND EQUIP ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF FURRING UNLESS 			
"CLEAR" DENOTES FINISH TO FINISH. 10. TOILET ROOM WALLS TO HAVE SOUND BATT INSULATION FROM FLOOR	TO DECK ABOVE.		
11. GYP. BD. IN ALL WET AREAS TO BE WATER RESISTANT GYP. BD.			
12. CONCRETE BACKER BOARD SHALL BE PROVIDED BEHIND TILE AT WALL	.S.		
 ADJUST SUPPLY LINE WALL PENETRATION HEIGHTS AS NEEDED TO AVO BETWEEN FLUSH VALVES AND GRAB BAR MOUNTING HEIGHTS. GRAB E ARE TO TAKE PRIORITY. 			SEAL
14. CONTRACTOR TO CORRIDATE WITH SPECIFIED FIXTURES AND FINISHES LAVATORIES TO BE 34" A.F.F. MAX.	S TO ENSURE RIM OF	6	
			ERED ARCHINE
A. 24" x 36" FRAMELESS MIRROR W/ 1/4" FLOAT PLATE SET IN SILICONE. (40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE). CENTER ABOVE SINK, TYP.			A Contraction of the second seco
 B. PAPER TOWEL C. TOILET TISSUE DISPENSER (WALL MOUNTED). DISPENSER SHALL BE LOCATED ITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT. 		—	COMMERCE 10. 104006 52 9 2
(1 PER STALL) D. 42" & 36" HORIZ. AND 18" VERT. STAINLESS STEEL GRAB BAR,			OF TENNING
(SURFACE MOUNTED). 1 1/4" - 1 1/2"Ø MOUNTED 1 1/2" FROM WALL. E. SOAP DISPENSER F. FEMININE NAPKIN RECEPTACLE			
 G. COAT / ROBE HOOK H. BATHROOM PARTITION I. 36" MOP RACK 		5	COPYRIGHT © MBI COMPANIES INC. 2023 THE DESIGN PROFESSIONAL DENIES ANY AND ALL DESPONSIBILITY AND LABILITY FOR PROPISED ENS. WHI
J. HI-LO WATER FOUNTAIN WITH BOTTLE FILLER K. 60"X56" CLEAR FLOOR AREA AT WATER CLOSET			RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHIC ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHER
L. 30"X48" ACCESSBLE FLOOR AREA M. FLOOR DRAIN - SEE PLUMBING DRAWINGS			FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITI OR CONFLICTS WHICH ARE ALLEGED.
			PROJECT INFORMATION PROJECT:
FLOOR PLAN KEYNOTES			CLINTON HIG
 ALIGN FINISHES CONCRETE FLOOR WITH INTERGRAL 4" WALL BASE 			SCHOOL WELDIN AND AGRICULTUR
 REMOVABLE LAVATORY VANITY - ANGLED APRON PRE-ENGINEERED METAL BUILDING COLUMN MILLWORK - REFER TO INTERIOR ELEVATIONS 			BUILDIN
 MOP SINK - SEE PLUMBING. PROVIDE 48" HIGH FRP PANEL WAINSCOT AT SIDE AND REAR WALL 		4	PROJECT ADDRESS:
WALL-MOUNTED MOP AND BROOM RACK8. FURNITURE - (N.I.C.)9. WASHER - (O.F.C.I.)			411 DOUGLAS CLINTON, TN 377
10. DRYER - (O.F.C.I.) 11. DOG WASH STATION - (O.F.C.I.) 12. WELDING STATION - (O.F.C.I.)			PROJECT NO.: 220042-0
13. EYE WASH STATION 14. HOSE BIB 24" A.F.F.			ACTIVE DESIGN PHASE Image: State of the state of th
 FLOOR DRAIN PACKAGED UNIT CLEARANCE DRYER VENT THRU 			FOR PERMITTING ON SCHEMATIC DESIG DESIGN DEVELOPME
 PACKAGED UNIT GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI 			CONSTRUCTION BIDDI CONSTRUCTION DOCUMEN
20. FIRE DEPARTMENT INLET CONNECTION 21. HOT WATER HEATER			AS-BUILT RECORD S
22. CEILING RETRACTABLE COIL EXTENSION CORD REEL 23. SPLASHBLOCK 24. CAMERA SYSTEM THAT MONITORS EACH ENTERANCE HALLWAY.		3	NO. DATE DESCRIPTI 1 01.29.2024 ADDENDUM #
25. PRINTER - (O.F.C.I.) 26. FIRE ALARM CONTROL PANEL			
 PANELBOARD PROVIDE GROMMETS IN OPEN COUNTER WORKSTATIONS. 			
GROMMET LOCATIONS TO BE VERIFIED BY OWNER.		$\left - \right $	
			KEY PLAN
		2	
			SHEET INFORMATION
		$\left - \right $	SHEET ISSUED:10/06/20DESIGNED BY:CM
			DRAWN BY: M REVIEWED BY: CI
			SHEET TITLE:
			ENLARGED PLANS
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		41	AND DETAIL
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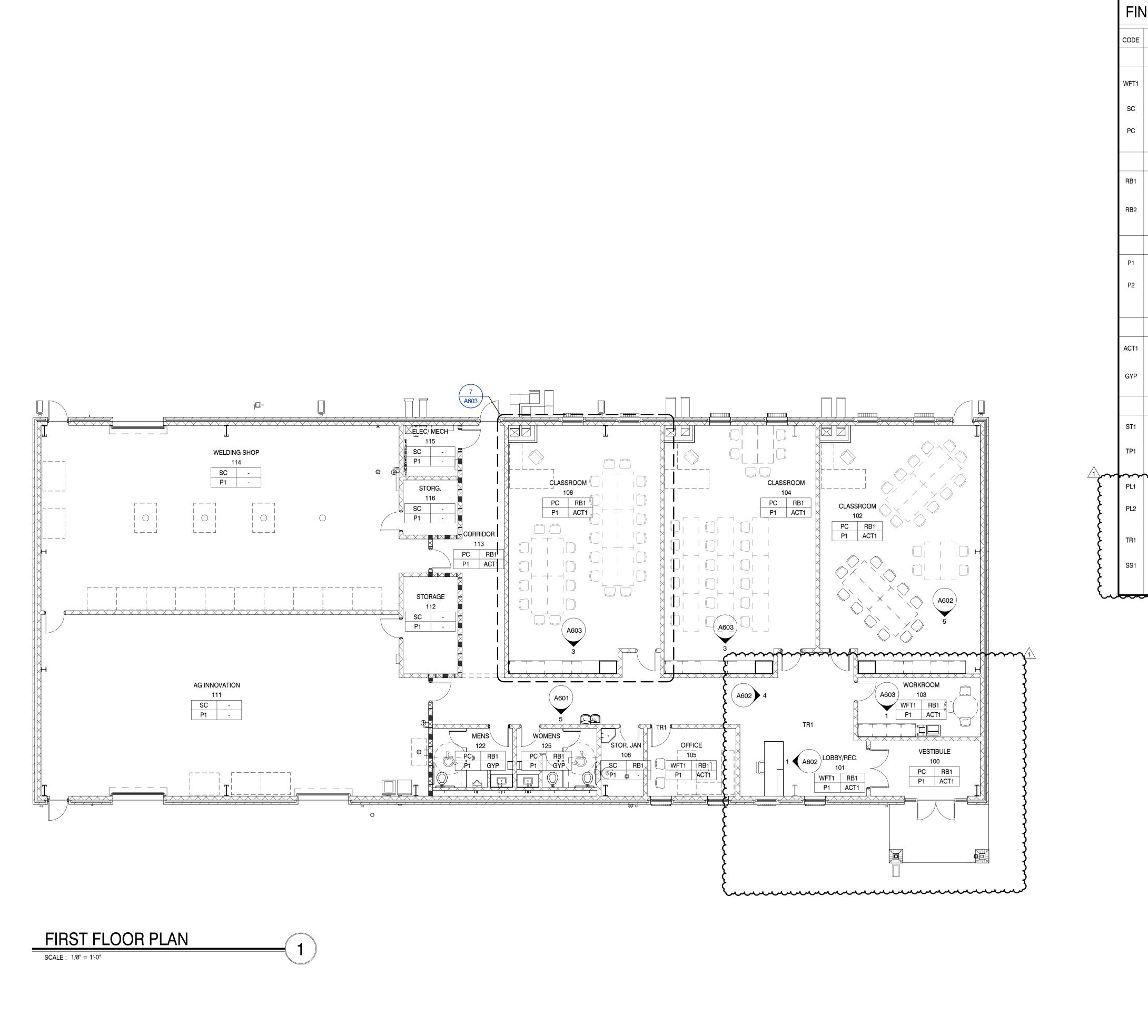


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3		}	2X4, FLAT PANEL LED FIXTURE	3	TH	<b>S</b> (	OFFICE.	
}	~~~~~		2X2, FLAT PANEL LED FIXTURE	No altera modification	tion s of	s, d anv	eletions, additions or kind are allowed to this	
ł	{	•	PENDENT SPRINKLER	approved a	of	vith this	out written permission office.	
۲ ۲	}	o	UPRIGHT SPRINKLER	TENININE	CT/	TE		
			8'., LENSED STRIP INDUSTRIAL LED	TENNNESSEE	517		PIRE MARSHAL MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999	
}	<b>}</b> □		1X4, FLANGED, FLAT PANEL INDUSTRIAL LE				FAX:         (865) 584-5213           WEB:         mbicompanies.com	
}	{	$\bigcirc$	6" DOWN LIGHT	}			CONSULTANT	
	}	434	EXIT SIGN WITH BUILT-IN TWIN HEAD EMER			7		
۲ ۲	}	$\bigotimes$	EXIT LIGHT					
5	}		HVAC SUPPLY DIFFUSER	ł				17
}	ł		HVAC R/A GRILL	<b>₹</b> ^				00
}	Eur	$\underline{\checkmark}$		man 31				0
}			EXHAUST FAN					#
			24"X24" ACOUSTICAL CEILING TILE (ACT2 UNLESS OTHERWISE NOTED)			6	SEAL	TFM
L			24"X48" ACOUSTICAL CEILING TILE (ACT2 UNLESS OTHERWISE NOTED)				THINKING DOWLEN	ľ
			5/8" GYP. BD. CEILING (TO BE PAINTED P1 UNLESS NOTED OTHE	RWISE)			Chrone uppor	-01
			PREFINISHED FLUSH SEAM ALUMINUM S				E OF TENNININI 24	-31
							COPYRIGHT © MBI COMPANIES INC. 2023	3-10
	-	9'-0" A.F.F.	CEILING HEIGHT UNLESS OTHERWISE NO	DTED		5	THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN	202;
							PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION	1 # 1
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							AND AGRICULTURE BUILDING	PROJ
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ITEM	MANUFACTURER	DESCRIPTION		TH	8	OFFICE.
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WOVEN	J+J FLOORING	KINETEX, AGAINST THE GRAIN 1840, COLOR: BARLEY	appro/ 2819, 12X48,	red set v	vith this	out written permission office.
FLOOR TILE SEALED		PARQUET INSTALLATION GRAY STAIN	TENNNES	SEE STA	TE	FIRE MARSHAL MEI COMPANIES INC.
CONCRETE		GRAY STAIN				299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999
CONCRETE		GRATSTAIN				FAX:         (865) 584-5213           WEB:         mbicompanies.com
WALL BASE						CONSULTANT
RUBBER BASE	BPI	TARKETT, BURNT UMBER 63, 4" STANDARD			7	
RUBBER BASE	BPI	TARKETT, 4" MILLWORK MONUMENT, MW-63-S4, BURN (MILLWORK LOCATIONS)	T UMBER 63			
WALLS						
PAINT	SHERWIN WILLIAMS	SW 7064 PASSIVE				
PAINT	SHERWIN WILLIAMS	(GENERAL WALL PAINT U.N.O.) SW 7674 PEPPERCORN				
		(HOLLOW METAL PAINT)				SEAL
CEILING					6	
ACOUSTICAL	ARMSTRONG	STYLE: CALLA-2824 SQUARE TEGULAR, SIZE: 24" x 24" x	x 1".			DOWLEN
CEILING TILE		COLOR: WHITE, GRID: 9/16"	· · ,			The STERED ARCHINE
gyp. Bd. Bulkhead	SHERWIN WILLIAMS	PAINT (P1) UNLESS NOTED OTHERWISE				abrondurppo
MISC.						No 104006 52 97 24
STAIN	MASONITE	ASPIRO SERIES, SPECIES: WHITE BIRCH, COLOR: COC	OA BEAN			
TOILET PARTITION	SCRANTON	HINY HIDERS, FLOOR MOUNTED-OVERHEAD BRACE,O PEEL,SHALE, CONTINUOUS 71" H STAINLESS STEEL HI OCCUPANCY INDICATOR, STAINLESS STEEL 71" CONTI	ELIX , INUOUS STRIKE	(	5	COPYRIGHT © MBI COMPANIES INC. 2023 THE DESIGN PROFESSIONAL DENIES ANY AND ALL
PLASTIC LAMINATE	FORMICA	FOG 961C-58 (COUNTERTOP, RESTROOM APRON W/ MATCHING EDG		}	0	RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY
PLASTIC	FORMICA	STORM 912C-58		}		CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES
LAMINATE		(CABINET FRONT/SIDES)		}		OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION
TRANSITION	BPI	TARKETT, SLT-63-L		ł		
SOLID SURFACE	LIVINGSTONE	L721 AVALANCE, 3CM EASED EDGE (RESTROOM COUNTERTOP				CLINTON HIGH SCHOOL WELDING AND AGRICULTURE
	GENERAL I	INTERIOR NOTES				BUILDING PROJECT ADDRESS:
:					4	
		O BE PAINTED P1 UNLESS OTHERWISE NOTED PAINT SHALL HAVE SEMI-GLOSS FINISH				411 DOUGLAS LN CLINTON, TN 37716 PROJECT NO.:
		OVIDE APPROPRIATE TRANSITIONS AS REQUIRED				ACTIVE DESIGN PHASE
	4. PRIOR TO CONSTRUC REVIEW AND APPRO	CTION, CONTRACTOR TO SUBMIT ALL SAMPLES TO ARCH VAL	ITECT FOR			FOR REVIEW ONLY     FOR PERMITTING ONLY
		30ARD TO BE PAINTED				SCHEMATIC DESIGN       DESIGN DEVELOPMENT
	6. CONTRACTOR SHALL	L PROVIDE APPROPRIATE SEAM SEALANT FOR ALL CARPE	ET TRANSITIONS			CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS
	7. CONTRACTOR SHALL TILE APPLICATIONS	L PROVIDE APPROPRIATE GROUT & SEALANT FOR ALL FLO	OOR & WALL			AS-BUILT RECORD SET
I					3	NO.         DATE         DESCRIPTION           1         01.29.2024         ADDENDUM #01
		INTERIOR FINISH TA	G			
			ROOM NUMBER BASE			
		C1 B1 P1 ACT1				KEY PLAN
		WALL FINISH	CEILING			
					2	
						SHEET INFORMATION
						SHEET ISSUED: 10/06/2023
						DESIGNED BY: CMG DRAWN BY: AJA
						REVIEWED BY:     CMG       SHEET TITLE:
		$\wedge$			1	
			~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		FLOOR FINISH PLAN
		{ <u>TFM # 00017-D</u>	0 4 0 0 4	}		SHEET NO.:
		<u> </u>	<u>3-10-31-(</u>	$\frac{11}{2}$		A901
К			M		a	

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	GENERAL NOT			
	Structural drawings are intended to be used in close coc olumbing and electrical drawings. Any discrepancies or	rdination with the civil, architectural, mechanical,	1.	Foundatio prior to co
A	Architect and resolved prior to the beginning of construc	tion.	2.	Foundatio
	Submit written request to the Architect for approval of an contract documents. Splicing, cutting, notching or other			a) Minimu b) Allowal
р	permitted without written authorization of the Structural E	ngineer. Any unauthorized deviation from the		c) Subgra
	contract documents, and correction thereof, is the respo The Contractor is responsible for the means and method	-	3.	All footing: its maximu
4. T	The Contractor shall verify all dimensions and conditions	- , , ,		BEARING CONSTRU
	discrepancies. The Contractor is responsible for bracing the structure p	rior to the completion of all roof, floor, and wall	4.	Provide th
d	diaphragms.			footing or any exterio
	The Contractor shall coordinate the structural foundation Where live loads for which each floor or portion thereof a			finished g
d	designed to exceed 50 psf, such design live loads shall l	0	5.	Contracto undergrou
0	of each story in which they apply using durable signs.		6.	Backfill ret
	SUBMITTAL NOT	ES	7.	the footing Provide 6"
	The Structural Engineer's review is only for general confo	prmance with the design concept, the	7.	finished g
	construction documents and specifications. Corrections he contractor from compliance with the plans and speci			not conne Architect o
	authorize an increase in the construction budget.	of dovictions from the contract documents	8.	Provide co
u	Approval of shop drawings does not indicate acceptance unless accepted by the Engineer in writing prior to subm	ission of shop drawings. Conflicts resulting from	9.	grade is lo Contracto
	such deviations, conflicts between this work and the wor dimensional conflicts as a result of such deviations shall			control or
3. A	Any changes to the details shown in these contract docu	ments shall be submitted in writing by RFI and	10.	Refer to th the struct
	approved by the Architect and Engineer prior to submitti bubbled" on the shop drawings and referenced to the p			
4. S	Submittals shall conform to the requirements of the cont			
	non-reviewed submittals will be returned without review. Submittals shall be checked and marked "Reviewed - No	Exceptions Taken" by the Contractor prior to	1.	All concre Contracto
S	submittal to the Architect. Submittals that have not been		2.	Concrete
	be returned without review. Submittals shall not contain reproductions of the contrac	t documents. Submittals containing such		a) Footin b) Interio
re	eproductions will be returned without review.			c) CMU (
a	Submit the following items for the Engineer's review: a) Concrete mix designs		3.	d) Concr The maxir
b) Reinforcing steel		5.	a) Concre
d	 pre-engineered Metal Building Contraction joint locations in masonry walls 			b) Concre c) All othe
e	e) Pre-engineered Canopy		4.	Concrete
				a) Each r foundatio
				submittals b) Propos
Building	DESIGN CODES AND SPE Code 2018 International Building Code			supportin
Design L	Loads ASCE 7-16: Minimum Design Loads for		5.	 c) Submi Fly ash, m
Concrete	e ACI 318-14: Building Code Requiremer ACI 315-99: Manual of Standard Practic			Contracto
	ACI 301-10: Specifications for Structura	I Concrete		affected b handling,
	ACI 305.1-06: Specifications for Hot We ACI 306.1-90: Standard Specification for		6.	Grout use shall exhi
	ACI 302.1R-15: Guide for Concrete Floo	or and Slab Construction		Cementiti
	ACI 304.R-00: Guide for Measuring, Mi: CRSI 10th Edition: Placing Reinforcing	king, Transporting and Placing Concrete Bars	7.	in accord The follow
	AWS D1.4/D1.4M-2018 Structural Weld			
		• •		
Steel	AISC 360-16: Specification for Structure AWS D1.1/D1.1M-2020: Structural Weld	al Steel Buildings		b) Forme
	AWS D1.1/D1.1M-2020: Structural Weld AWS D1.8/D1.8M-2016: Structural Weld	al Steel Buildings ding Code - Steel ding Code - Seismic Supplement		b) Formec) Formed) Slabs,
	AWS D1.1/D1.1M-2020: Structural Weld AWS D1.8/D1.8M-2016: Structural Weld	al Steel Buildings ding Code - Steel ding Code - Seismic Supplement		 b) Forme c) Forme d) Slabs, smaller): e) Beams
	AWS D1.1/D1.1M-2020: Structural Weld AWS D1.8/D1.8M-2016: Structural Weld TMS 402-16: Building Code Requireme	al Steel Buildings ding Code - Steel ding Code - Seismic Supplement nts for Masonry Structures	8.	 b) Forme c) Forme d) Slabs, smaller): e) Beams Unless no
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FOUNDATION NOTES
Foundation design parameters have been assumed and should be verified by a Geotechnic prior to construction.

- esign parameters: Frost Protection Depth = 18"
- Soil Bearing Pressure = 2000 psf
- Modulus = 100 pci
- hall bear on firm undisturbed residual soil and/or engineered earth fill compac dry density as per ASTM D698 (Standard Proctor), unless noted otherwise. APACITY IS TO BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO TION.
- ninimum frost depth protection depth from finished grade to the bottom of any n down building slab. Also provide a minimum of 1'-0" cover from finished gra ooting. Contractor to coordinate the location and depths of footing steps as r le conditions.
- coordinate the location and depths of footing steps as required to allow for th I plumbing and utilites.
- ning walls with clean crushed stone (No. 57 or 67 size) 2-6" wide (minimum) fro within 1'-0" of finished grade.
- ameter perforated pipe footing drains at all retaining walls and foundation walls e occurs above the finished floor elevation. Footing drains are to be totally inc with any other type of water drainage systems except at the footing drain termi Structural Engineer should approve connections at the footing drain termination
- inuous waterstops between footings and concrete/masonry walls at locations w ted above the adjacent finished floor or at floor pits (i.e. elevator shaft). nall treat soil under slabs, footings and crawl spaces with EPA approved chem
- required per the building code. nechanical, plumbing or electrical drawings for concrete pads and foundations l drawings.

CONCRETE NOTES

- elements shall be installed and detailed in accordance with the appropriate AC have copies of the ACI documents at the job site during construction. npressive strength, f'c, at 28-days shall be as follows at minimum unless noted
- 3000 psi (2500 psi used in design) abs on Grade Less Than 6" Thick: 3000 psi (non air entrained) e Fill: 3000 psi
- Exposed to Weather: 4000 psi (w/ 4%-6% air entrainment) m water-to-cement ratios shall be as follows:
- exposed to freezing and thawing: 0.50 subject to deicers and/or required to be watertight: 0.45 oncrete types: 0.58
- designs shall be submitted as follows:
- design shall be labeled to indicate the area in which the concrete is to be place slab on grade, columns, etc.). Failure to do so will cause delay and/or rejection
- I mix design shall be in accordance with Method 1 or Method 2 of ACI 301. Pro ata in tabular form for each separate proposed mix.
- procrete mix designs for each proposed class of concrete.
- ting ASTM C618 Class C or Class F may be used to replace up to 25% of Port nd supplier shall coordinate to ensure that required set times for concrete are i use of fly ash. Contractor and all concrete subcontractors shall have experienc cing and finishing concrete with fly ash.
- n grout beds under column base plates shall be cement based, non-shrink gro no shrinkage in accordance with ASTM C827, "Test Method for Early Volume (s Mixtures" and shall have a minimum 28-day compressive strength of 5000 ps e with ASTM C109, "Test Method for Compressive Strength of Hydraulic Ceme
- g minimum concrete cover shall be provided for reinforcing bars: nst and permanently exposed earth: 3"
- and exposed to earth or weather (#6 thru #18 bars): 2"
- and exposed to earth or weather (#5 bars, W31 wire and smaller): 1-1/2"
- alls & joists formed and not exposed to weather or in contact with the ground (irders & columns formed and not exposed to weather or in contact with the gro
- otherwise, slabs on grade shall be 4" thick with 6x6-W1.4xW1.4 W.W.F. on 20 vapor barrier on 4" thick crushed stone base.
- e contraction joints may be saw cuts 1/8" wide x 1/4 slab thickness as detailed d approved method. Joints shall be placed at 24'-0" o.c. maximum spacing. Il have a maximum aspect ratio of 1.5:1.
- le construction joints shall be as detailed or other submitted and approved me $^{
 m r}$ shall be placed over prepared base material where indicated below slabs on m c
- be no less than 20 mil thick in accordance with ACI 302.1R. r shall conform to ASTM E1745, Class B or higher unless noted otherwise. The
- water-vapor permeance rate no greater than 0.3 perms when tested in accorda n 11, a minimum tensile strength of 30 lb/in when tested in accordance with A d a resistance to puncture of 1700 grams in accordance with ASTM E154, Secti
- r shall be arranged in a layout to minimize seams and penetrations. Overlap all 6" and seal with tape. All penetrations must be sealed using a combination of s cordance with manufacturer's latest printed instructions.
- tural, mechanical, plumbing, fire protection and electrical drawings for drips, ch , sleeves, rustications, inserts and anchors not noted on structural drawings. I drawings, no openings larger than 12" x 12" shall be placed in slabs or walls w n the Architect or Engineer. Approvals must be obtained prior to fabrication of f concrete.
- o include with contract price an allowance for ten (10) cubic yards of reinforced terials and labor.

REINFORCING STEEL NOTES

- steel and accessories shall be detailed, fabricated and placed in accordance w ACI Detaling Manual. Provide shop drawings for reinforcing steel prior to fabri
- ng shall conform to ASTM A615, Grade 60.
- einforcing shall conform to ASTM A706, Grade 60.
- ing lap splices shall be Class "B" but not less than 24", unless noted otherwise. hall be held securely in position with standard accessories in accordance with al of Standard Practice.
- fabric shall conform to ASTM A185.
- fabric lap splices shall be the cross wire spacing plus 6" but not less than 10" fabric located in concrete slabs shall be located in the center of the slab unles
- upports used shall be spaced at a maximum of 3'-0" o.c. in any direction. steel reinforcing, same size and spacing as bottom steel, in footings at any loca
- rea. Use #3 stirrups at 18" o.c. at these locations to tie top and bottom steel. steel reinforcing, same size and spacing as bottom steel, in footings at any cor
- locations to tie top and bottom reinforcing.
- joint terminations. ' x 2'-6" corner bars at the corners of all continuously reinforced elements such
- beams, etc. Corner bars shall be the same size, spacing, location and quantity nforcing.

STRUCTURAL STEEL NOTES

- eel shall be designed, fabricated, erected, etc. as per the AISC Manual of Steel drawings of structural steel prior to fabrication.
- teel material to be as follows:
- , angles and plates: ASTM A36 VT-shapes: ASTM A992
- STM A53 Grade B
- STM A500 Grade B
- eel exposed to weather shall be hot dipped galvanized in accordance with AST erwise by the Architect.
- ctural steel from earth, gravel and/or concrete with 1/8" thick hydrocide mastic. 6. Post-installed adhesive anchors may be considered as a substitute for 3/4" diameter cast-inrods provided the adhesive anchors are field tested to resist forces specified by the Structu Submit request to Structural Engineer prior to installation for approval. See Post-Installed A for approved adhesive anchors.
- 7. Post-installed adhesive anchors for connecting steel members to concrete or masonry shall adhesive anchors listed in Post-Installed Anchor Notes. Threaded rods shall be ASTM A36 r unless noted otherwise. Submit request to Structural Engineer to use alternate adhesive an approval prior to installation.

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from residual to engineered fill. Top steel shall extend 8'-0" minimum each sid . Top steel shall extend 8'-0" minimum each way from the wall corner. Use #st

#4 bars x 4'-0" long in slabs on grade at all re-entrant corners, contraction joint

		STRUCTURAL STEEL NOTES		MASONRY NOTES
hnical Engineer	8.	Post-installed expansion/screw anchors for connecting steel members to concrete or masonry shall use approved mechanical anchors listed in Post-Installed Anchor Notes. Submit request to Structural	28.	Vertical contraction joints in concrete masonry shall be spaced at 25'-0" on center maximum unle otherwise on architectural or structural plans (See notes 29 & 30 for reinforcing required at joint).
	9.	Engineer to use alternate expansion/screw anchor for approval prior to installation. Welding shall be performed by operators qualified in accordance with AWS tests for the types of welding required for this project. All welders must be certified for the type of welding specified and shall be in		shall be 3/8" wide and shall extend the full height of the wall. Joints shall be free of mortar and g Head joints to align full height of joint. Preferred joint locations are as follows. Submit joint layou approval with masonry submittal. See typical contraction joint detail for more information.
pacted to 98% of		accordance with an approved WPS. All quality procedures and personnel shall be in accordance with AWS D1.1.		 a) Not less than 1'-4" from a joist or beam bearing plate b) Near wall openings, not less than required lintel jamb width away from opening
. THE SOIL	10.	Minimum welds unless noted otherwise: a) Bar joists to supports: 1/8" x 2 1/2" fillet weld each side b) Joint sinders to support 1/8" x 2 1/2" fillet weld each side		 c) Near wall corners in one of the two joining walls, not greater than 5'-0" from corner d) Near column lines e) At changes in wall height
any exterior grade to the top of	11.	 b) Joist girders to supports: 1/4" x 2 1/2" fillet weld each side c) All others not specified: 1/8" x 2" long fillet weld except where noted as "all around" Refer to civil, architectural, mechanical, plumbing, fire protection and electrical drawings for structural 		f) At changes in wall thicknessg) At tee intersections between an interior and exterior wall
as required by	12.	steel items not shown on the structural drawings. Contractor to include with the contract price an allowance for two (2) tons of structural steel including	29. 30.	All horizontal joint reinforcing shall be discontinuous at vertical contraction joints. All horizontal bar reinforcing shall be discontinuous at vertical contraction joints except where rei
r the passage of		materials and labor.	31.	is used as a tie bond beam at floor or roof diaphragms and at top of wall. Lintels at wall openings shall be provided as follows unless noted otherwise. See typical lintel de
) from the top of		POST-INSTALLED ANCHOR NOTES		more information. a) Opening width up to 4'-0": 8" nominal depth w/ (2) #4 bars b) Opening width over 4'-0" up to 8'-0": 16" nominal depth w/ (2) #5 bars T&B
valls in which vindependent and	1. 2.	Post-installed anchors shall be used only where specified on structural drawings. The installation of post-installed anchors for missing or misplaced cast-in-place anchors shall be approved		 c) Opening width over 8'-0" up to 12'-0": 24" nominal depth w/ (2) #6 bars T&B d) Opening width over 12'-0" up to 16'-0": 32" nominal depth w/ (2) #6 bars T&B
rminations. The ations. ns where finished	3.	by the Structural Engineer. Care shall be given to avoid conflicts with existing reinforcing when drilling holes. Existing reinforcing	32.	Jambs at wall openings shall be provided as follows unless noted otherwise. See typical jamb d more information.
emical vermin	4.	bars in the concrete structure shall not be cut unless approved by the Structural Engineer. Submittal of all proposed products with technical data and current ICC-ES reports is required for review		 a) Opening width up to 4'-0": (1) bar and 8" min. width each side b) Opening width over 4'-0" up to 8'-0": (2) bars and 16" min. width each side c) Opening width over 8'-0" up to 12'-0": (3) bars and 24" min. width each side
ions not shown on	5.	and approval by the Structural Engineer. Additional application calculations may be required by the Structural Engineer. All anchors shall be installed in strict accordance with manufacturer's printed installation instructions	33.	 d) Opening width over 12'-0" up to 16'-0": (4) bars and 32" min. width each side Pre-cast lintels shall not be permitted unless noted otherwise.
	6.	(MPII) in conjunction with edge distance, spacing and embedment depth as indicated on the drawings. The contractor shall arrange for a manufacturer's field representative to provide installation training for all	34. 35.	Provide lintels above mechanical, plumbing or electrical wall penetrations which exceed 16" wide All anchors shall be located within solid grouted cells.
ACI documents.		products to be used prior to commencement of work. Only trained installers shall perform post-installed anchor installation. A record of training shall be kept on site and be made available to the Structural	001	
oted otherwise:	7.	Engineer or inspector as requested. Adhesive anchors installed in horizontal to vertically overhead orientation to support sustained tension	1	PRE-ENGINEERED METAL BUILDING (PEMB) NOTES THE FOOTING SIZES AND REINFORCEMENTS SHOWN ARE ASSUMED AND MAY BE ADJUST
	8.	loads shall be done by a certified adhesive anchor installer (AAI) as certified through ACI/CRSI. Proof of current certification shall be submitted to the EOR for approval prior to commencement of installation. Adhesive anchors must be installed in concrete aged a minimum of 21 days.	2.	WHEN THE FINAL REACTIONS ARE FURNISHED BY THE PEMB MANUFACTURER. Contractor shall submit actual reactions from the PEMB manufacturer for review by the Engineer
	0. 9.	Mechanical anchors into concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193 for cracked, uncracked and seismic concrete recognition. Approved anchors	3.	Record prior to fabrication/construction. A concrete allowance identified in the Concrete Notes has been provided for use if larger footing
		include the following: a) Hilti KH-EZ	4.	required. Contractor to provide credit for any unused portion of concrete allowance.
		b) Simpson Titen HD c) DeWalt Screw-Bolt+	5.	Deflection criteria: a) Wall panels: L/240 (10 yr. wind)
blaced (i.e. ection of	10.	Adhesive anchors into concrete shall have been tested and qualified for use in accordance with ACI 355.4 and ICC-ES AC308 for cracked, uncraced and seismic concrete recognition. Approved anchors include the following:		 b) Girts/beams: Supporting brick or CMU: L/360 ≤ 1" (10 yr. wind) c) Main frames:
Provide		the following: a) Hilti RE-500 V3 b) Simpson SET-XP		 c) Main frames: Supporting CMU exterior walls with hinged base: H/100 (10 yr. wind) d) Purlins:
Portland cement.	11.	c) DeWalt Pure 110+ Mechanical anchors into masonry shall have been tested and qualified for use in accordance with ICC-ES		, -Live, snow or wind load only: L/240 -Dead+Live Load: L/180
are not adversely ence with		AC01 or AC106. Approved anchors include the following: a) Hilti KH-EZ	6.	X-bracing (cable or rod) is not permitted for lateral stability. Provide portal frames at preferred lo depicted on plans. If additional portal frames are needed or if locations need to be adjusted, cor
grout. The grout	12.	 b) Simpson Titen HD c) DeWalt Screw-Bolt+ Adhesive anchors into masonry shall have been tested and qualified for use in accordance with ICC-ES 	7.	Engineer of Record prior to shop drawing submission. End walls are non-expandable.
ne Change of psi when tested	12.	AC58. Approved anchors include the following: a) Hilti HY-70	8.	All columns are to be designed with pinned bases.
ement Mortars."		b) Simpson AT-XP c) DeWalt AC100+ Gold		
	13.	Provide Special Inspection for all mechanical and adhesive anchors per the applicable building code and per the current ICC-ES report. Adhesive anchors installed in horizontal of upwardly inclined orientations to resist sustained tension loads shall be continuously inspected during installation by an inspector		
d (#11 bar and		specially approved for that purpose by the building official.		
ground: 1-1/2" 1 20 mil	<u> </u>	MASONRY NOTES		
iled or other g. Areas created	1.	Structural masonry is defined as being either load bearing or serving as the lateral force resisting system. Structural masonry is shown on the structural plans, and is defined in schedules and details on the structural drawings. Partition walls, masonry veneer and other non-structural masonry are shown on the		
method.	2.	architectural drawings. Concrete masonry units shall be light weight and shall conform to ASTM C90.		
on grade. Vapor	3. 4.	Minimum concrete masonry compressive strength, fm, shall be 2000 psi at 28 days. Mortar shall conform to ASTM C270. Type S mortar shall be used for structural masonry and partition		
The membrane ordance with ASTM n ASTM E154,	5.	walls. Type N mortar shall be used for veneer. Masonry bar reinforcing shall conform to ASTM A615, Grade 60.		
Section 10. p all seams a	6.	Masonry joint reinforcing shall be Hohmann and Barnard, Inc. assembly or approved equal and shall have product approval of governing code. Reinforcing shall be ladder type and shall be manufactured from		
of seam tape and	7	cold drawn steel wire conforming to ASTM A1064. Cross rods and side rods shall not be less than W1.7 (9 ga) wire. May provide preformed corners and tees to match type, size and spacing of joint reinforcing. Structural masonry walls shall be reinforced as follows unless noted otherwise:		
s, chamfers, s. Unless shown	7.	 a) 6" CMU: (1) #4 vertical @ 48" o.c. b) 8" CMU: (1) #5 vertical @ 48" o.c. 		
ls without prior n of steel and	8.	See architectural drawings for interior non-structural masonry partition walls which may or may not be shown on the structural drawings. Interior non-structural masonry partition walls should be reinforced as		
ced concrete		follows for the given unbraced height for an out-of-plane load of 10 psf unless noted otherwise. Brace the top of partition walls as shown in the typical details. Braces to be located at a maximum spacing of 12'-0" o.c. along the wall length with braces located no further than 1'-0" from an unsupported free end (without		
		a corner) and 8'-0" from tees or corners. Braces not required when wall length is less than 12'-0" between tees or corners.		
e with the latest		 a) 6" CMU up to 17'-6" unbraced: (1) #5 vertical @ 48" o.c. b) 6" CMU up to 20'-6" unbraced: (1) #5 vertical @ 32" o.c. 		
fabrication.		 c) 6" CMU up to 23'-0" unbraced: (1) #5 vertical @ 16" o.c. d) 8" CMU up to 24'-6" unbraced: (1) #5 vertical @ 32" o.c. e) 8" CMU up to 28'-3" unbraced: (1) #6 vertical @ 32" o.c. 		
Se.	9.	f) 8" CMU up to 31'-9" unbraced: (1) #6 vertical @ 16" o.c. All masonry walls shall have horizontal joint reinforcing consisting of (2) W1.7 wires spaced at 16" o.c.		
with ACI 315 and	10.	unless noted otherwise. All vertical bar reinforcing shall extend from the foundation to the top of wall. Provide dowels same size		
0" nless noted	11.	and spacing as vertical bar reinforcing into foundation. All vertical bar reinforcing shall extend through all bond and tie beams.		
location where the	12.	All vertical reinforcing shall be located within the center of the wall unless noted otherwise. For reinforcing which is not centered, provide 3/4" clear space between reinforcing and face shell.		
i side of the soil	13. 14.	All horizontal bar reinforcing shall be placed within bond beam units. Masonry bar reinforcing development length and lap splice length shall be 64 bar diameters but not less than 12 inches		
corner in load e #3 stirrups at 18"	15. 16.	than 12 inches. Masonry joint reinforcing lap splice length shall be 36 wire diameters, but not less than 6 inches. Fill reinforced masonry cores, bond beams and lintels with grout conforming to ASTM C476. Fine and		
int terminations	10.	coarse grouts shall attain a minimum compressive strength of 3000 psi at 28 days. Grout shall attain 80% of design strength prior to application of service loads.		
ich as footings, ntity as the	17. 18.	All cells below finished floor or finished grade, whichever is higher, shall be solid grouted. The selection of fine and coarse grouts and the maximum grout pour height shall be in conformance with		
		the grout space requirements set forth in the Specification for Masonry Structures (ACI 530.1 / ASCE 6 / TMS 602).		
teel Construction.	19.	Each grout lift shall not exceed 5'-0" unless inspection cleanouts are provided in the bottom course of the lift.		
	20. 21.	Stop each intermediate grout lift 1-1/2" below the top of masonry at the top of the lift. Grout shall be consolidated immediately after pouring and reconsolidated.		
	22. 23.	Provide reinforcing positioners at 5'-0" on center minimum vertically. Furnish all special shapes, such as bond beam, open end, lintel and pilaster units, as required to		
	24.	accomodate reinforcing. When it is necessary to cut masonry, use an approved masonry saw. Use no units less than half size.		
ASTM A123 unless	25. 26.	Provide bond beam at joist and beam bearing locations. Provide tie bond beam at floor or roof diaphragms and at top of wall. Where diaphragms slope, step tie bond beam as required to follow slope and provide lap splice for tie bond beam reinforcing at each step		
tic. st-in-place anchor	27.	bond beam as required to follow slope and provide lap splice for tie bond beam reinforcing at each step. Bond and tie bond beams shall be reinforced as follows unless noted otherwise: a) 6x8 Bond / Tie Bond Beam: (1) #4 cont.		
ictural Engineer. ed Anchor Notes		b) 6x16 Bond / Tie Bond Beam: (1) #4 cont. T&B c) 8x8 Bond / Tie Bond Beam: (2) #5 cont.		
shall use approved A36 material		d) 8x16 Bond / Tie Bond Beam: (2) #5 cont. T&B		
e anchor for				

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H D GENERAL SPECIAL INSPECTION NOTES			ICTURAL STEEL C						ICTION - LEVEL B	
 Special inspection is defined by the building code as "Inspection of construction requiring the expertise of an approved special inspecto in order to ensure compliance with this code and the approved construction documents" (see 2018 IBC Chapter 17). 	Required	Prior to Welding (AIS Task	SC 360-16: Table N Extent	5.4-1; AISC 341-16: Table J6-1) Description	Service	Required	Prior to Task	Construction (TN Extent	//S 402/602-16: 1.5) Description	Service
2. Definitions of special inspection frequency:a) Continuous: Special inspection by the special inspector who is present when and where the work to be inspected is being performe	YES 1.	. Verify welding procedure specifications (WPS) and consumable certificates	Perform	2000, p.0.1	Submittal review	YES	 Review material certificates, mix designs, test results and construction procedures 	Periodic	Verify that materials conform to the requirements of the approved construction documents.	Submittal review
 b) Periodic: Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed. c) Perform: Tasks to be performed for each welded joint or member or for each bolted connection. 	YES 2.	. Material identification (type/grade)	Observe		Shop and field inspection		As Constru	, č (IS 402/602-16: Table 4)	
 d) Observe: Items to be observed on a random basis. Operations need not be delayed pending these inspection. e) Document: Create a report documenting that the work has been performed in accordance with the contract documents. 	YES 3.	. Welder identification system	Observe	A system shall be maintained by which a welder who has welded a joint or member can	Submittal review	Required YES	Task 1. Proportions of site-prepared mortar	Extent Periodic	Description Verify that mortar is of the type and color	Service Submittal review
3. The owner or the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under 2018 IBC Section 1705. The special inspector shall be a qualified person who shall demonstrate competence, to the	YES 4.	. Fit-up of groove welds (including joint	Observe	be identified. Stamps, if used, shall be the low-stress dye type. Verify joint preparation, dimensions (alignment,	Shop and field				specified on the construction documents, that it conforms to ASTM C270, and that it is mixed in accordance with TMS 602: 2.1, 2.6A, and 2.6C.	and field verification
satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. The special inspector shall disclose all possible conflicts of interest so that objectivity can be confirmed by the building official and/or the design professional.		geometry)		root opening, root face, bevel), cleanliness (condition of surface steel), tacking (tack weld quality and location), and backing type and fit (i	inspection	NO	2. Grade and size of prestressing tendons and anchorages	Periodic	Verify that prestressing tendons comply with TMS 602: 2.4B and that anchorages, couplers, and end blocks comply with 2.4H.	Field inspection
 Special inspectors are as defined in specification section 014500. All other testing falls under specification section 014000. Report requirements: 	YES 5.	Configuration and finish of access	Observe	applicable).	Shop and field	YES	3. Grade, type, and size of reinforcement, connectors, and	Periodic	Verify that reinforcement is placed in accordance with TMS 602: 3.4. Prestressing	Field inspection
a) Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the building official, and to the registered design professional in responsible charge. Reports shall indicate that work inspected was done in conformance to the		holes Fit-up of fillet welds	Observe	Verify dimensions (alignment, gaps at root),	inspection Shop and field	NO	prestressing tendons and anchorages 4. Prestressing technique	Periodic	tendons shall be placed per 3.6A. Verify that prestressing technique complies with	Field inspection
 approved construction documents. b) Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the registered design professional in responsible charge pri to the completion of that phase of the work. 				cleanliness (condition of steel surfaces), and tacking (tack weld quality and location).	inspection	NO	5. Properties of thin-bed mortar for AAC masonry	Continuous / Periodic	TMS 602: 3.6B. Verify that mortar complies with TMS 602: 2.1 C.1. Continuous inspection for the first 5000 sf	Field inspection
 c) A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of the work. 	Required	During Welding (AIS Task	C 360-16: Table N Extent	5.4-2; AISC 341-16: Table J6-2) Description	Service	NO	6. Sample panel construction	Periodic	of wall and periodic for all following applications. Verify that sample panels contain full range of	Field inspection
In the event that the project locale does not require a building official to be involved, the owner or owner's agent shall review the special inspection requirements with the design professional to determine which items for special inspection are mandatory.		Use of qualified welders	Observe		Shop and field inspection			Fenduic	unit and mortar color. Each procedure should be demonstrated on sample panel per TMS	
Special inspection items listed in the following tables are required if the inspection item pertains to the project.	YES 2.	. Control and handling of welding consumables	Observe	Verify packaging and exposure control.	Shop and field inspection				602: 1.6D.	
STATEMENT OF SPECIAL INSPECTIONS	YES 3.	. No welding over cracked tack welds	Observe		Shop and field inspection	Required	Prior to Task	Grouting (TMS 4 Extent	02/602-16: Table 4) Description	Service
cation: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING 411 DOUGLAS LN , CLINTON, TN 37716	YES 4.	. Environmental conditions	Observe	Verify wind speed within limits and precipitation and temperature criteria being met.	Shop and field inspection	YES	1. Grout space	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are	Field inspection
vner: ANDERSON CO. SCHOOLS sign Professional: W. NICHOLAS DEAL, P.E., S.E.	YES 5.	WPS followed	Observe	Verify settings on weld equipment, travel speed, selecting welding materials, shielding gas type/flow rate, preheat applied, interpass	Submittal review with shop and field verification	NO	 Placement of prestressing tendons and anchorages. 	Periodic	provided per TMS 602: 3.2D and 3.2F. Verify that provided reinforcement conforms to TMS 602 2.4. Confirm tolerances for	Field inspection
is Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 IBC. It includes a Schedule of Special pection Services applicable to the above referenced Project as well as the identity of the individuals, agencies, or firms intended to be				temperature maintained (min./max.), proper position (F, V, H, OH), and intermix of filler metals avoided unless approved.			and anonorageo.		prestressed tendon placement and forces meet TMS 602: 3.6.	
ained for conducting these inspections. If applicable, it includes Requirements for Seismic Resistance and/or Requirements for Wind sistance.	YES 6.	. Welding techniques	Observe	Verify interpass and final cleaning, each pass	Shop and field	YES	 Placement of reinforcement, connectors, and anchor bolts. 	Periodic	Verify reinforcement was placed in grout space prior to grouting. Confirm reinforcement, wall ties, and anchors are sized, selected, and	
e requirements for Seismic Resistance included in the Statement of Special Inspections? No No		•		within profile limitations, and each pass meets quality requirements.	inspection				located as specified in the project drawings. TMS 602: 3.2E and 3.4.	
e Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the gistered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior	YES 7.	Placement and installation of steel headed stud anchors	Perform		Field inspection	YES	 Proportions of site-prepared grout and prestressing grout for bonded tendons 	Periodic	Verify that grout is proportioned per ASTM C476 and has a slump between 8" to 11". Self-consolidated grout shall not be	Field inspection
the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not rrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible		After Welding (AISC		.4-3; AISC 341-16: Table J6-3)	·				proportioned onsite.	
arge prior to completion of that phase of work. A Final Report of Special Inspections documenting required special inspections and rrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in prescribes Charge at the excellence of the excellence.	n Required YES 1.	Task Welds cleaned	Extent Observe	Description	Service Shop and field	Required	During C Task	onstruction (TMS Extent	402/602-16: Table 4) Description	Service
sponsible Charge at the conclusion of the project.	YES 2.	Size, length and location of welds	Perform		inspection Shop and field	YES	1. Materials and procedures with the approved submittals	Periodic	Ensure materials are used in compliance with construction procedures outlined in TMS 602:	Field Inspection
equency of interim report submittals to the Building Official and Registered Design Professional in Responsible Charge shall be as follows:	YES 3.	. Welds meet visual acceptance criteria	a Perform	Verify crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld	inspection Shop and field	YES	 Placement of masonry units and mortar joint construction 	Periodic	1.5 Verify bed joins are constructed in compliance with TMS 602: 3.3B	Field Inspection
Iding Official: Monthly sign Professional in Responsible Charge: Bi-weekly	YES 4.	. Arc strikes	Perform	size, undercut, and porosity.	inspection Shop and field	YES	3. Size and location of structural members	Periodic	Verify the locations of structural elements with respect to the approved construction	Field inspection
Preparer's Seal	YES 5.	k-area	Perform	When welding of doubler plates, continuity	inspection Shop and field			-	documents and confirm that tolerances meet the requirements of TMS 602: 3.3F.	
tement of Special Inspections Prepared by: NICHOLAS DEAL, P.E., S.E.				plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3" of the weld.	inspection	YES	 Type, size, and location of anchors, including other details of anchorage of masonry to structural members, 	Periodic	Verify that correct anchorages and connections are provided per the approved construction documents and TMS 402: 1.2.1, 6.2.1, and	Field inspection
be or print name	YES 6.	. Backing removed and weld tabs removed (if required)	Perform / Document		Shop and field inspection	NO	frames, or other construction. 5. Welding of reinforcement	Continuous	6.3.1. Verify welded reinforcement meets the	Field inspection
inature Date	YES 7.	. Backing removed, weld tabs removed and finished, and fillet welds added (if	Perform / f Document		Shop and field inspection	YES	6. Preparation, construction, and	Periodic	requirements of TMS 402: 6.1.6.1.2. Verify that cold weather construction is	Field inspection
Iding Official's Acceptance:	YES 8.	required) Placement of reinforcing or	Perform /		Shop and field		protection of masonry during cold weather (<40°F) or hot weather		performed in accordance with TMS 602: 1.8C and hot weather construction per TMS 602:	
7 1 1 1 1 6 0 1 1 1 1 6 0 1 1 1 1 6 0 1 1 1 1 1 1 1 1 1 1	YES 9.	contouring fillet welds (if required) Repair activities	Document Perform\		inspection Shop and field	NO	(>90⁰F)7. Application and measurement of	Continuous	1.8D. Verify the proper prestressing force is applied	Field inspection
nature Date	YES 10	0. Document acceptance or rejection of	Perform		inspection Shop and field	YES	prestressing force8. Placement of grout and prestressing	Continuous	per TMS 602: 3.6B. Verify placement of grout is done in accordance	
CONCRETE CONSTRUCTION Concrete (2018 IBC: Table 1705.3, 1705.12.1)		welded joint or member			inspection		grout for bonded tendons is in compliance		with TMS 602: 3.5 and placement of grout for bonded tendons is in accordance with TMS	
equiredTaskExtentDescriptionServiceYES1.Reinforcing steel, including prestressing tendonsPeriodicVerify prior to placing concrete that reinforcing is of specified type, grade and size; that it isField inspection	n Required YES 1.	Task Document acceptance or rejection of	360-16: Table N5. Extent Perform	6-3; AISC 341-16: Table J7-3) Description	Service Field inspection	NO	9. Placement of AAC masonry units and construction of thin-bed mortar joints	Continuous / Periodic	602: 3.6C. Verify that mortar is placed in accordance with TMS602: 3.3B.9 and 3.3F.1.b. Continuous	Field inspection
free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are		bolted connections Other S	Steel Inspections (A	JSC 360-16: N5.8)		YES	10. Observation of grout specimens,	Periodic	inspection for the first 5000 sf of wall and periodic for all following applications. Confirm that specimens/prisms are performed	Field inspection
placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the	RequiredYES1.	Task Anchor rods and other embedments	Extent Perform	Description Verify the diameter, grade, type and length of	Service Field inspection		mortar specimens, and/or prisms		as required by TMS 602: 1.4.	
manufacturer's instructions and/or evaluation report.		supporting structural steel		the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.				SOILS CONST Soil (2018 IBC: T	able 1705.6)	
YES 2. Anchors cast in concrete Periodic Verify prior to placing concrete that cast in Field inspection	YES 2.	Fabricated steel or erected steel frame	Observe	Verify compliance with the details shown on the construction documents, such as braces,	e Field inspection	Required YES	Task 1. Foundation bearing capacity	Extent Periodic	Description Verify the materials below foundations are adequate to achieve the design bearing	Service Field inspection
anchors have proper embedment, spacing and edge distance.				stiffeners, member locations and proper application of joint details at each connection.		YES	2. Excavations	Periodic	capacity. Verify the excavations are extended to the	Field inspection
YES 3. Post-installed anchors or dowels Periodic Inspect all post-installed anchors/dowels as required by the approved ICC-ES report. Field inspection and/or anchor capacity testing				1		YES	 Perform classification and testing of 	Periodic	proper depth and have reached proper material.	Field inspection
YES 4. Use of required mix design Periodic Verify that all mixes used comply with the approved construction documents. Submittal review and field verification						YES	Compacted fill material	Continuous	Verify the use of proper materials, densities and lift thicknesses during placement and	Field inspection
YES 5. Concrete slump, air content, and the time fresh concrete is sampled to fabricate specimens for strength test, verify Field inspection	1								compaction of compacted fill.	
YES 6. Concrete & shotcrete placement Continuous Verify proper application techniques are used during concrete conveyance and depositing Field inspection	1					YES	5. Subgrade	Periodic	Prior to placement of compacted fill, observe sub-grade and verify that the site has been properly prepared.	Field inspection
avoids segregation or contamination. Verify that concrete is properly consolidated.										
YES 7. Curing temperature and techniques Periodic Inspect curing, cold weather protection and hot Field inspection weather protection procedures	1									
NO 8. Pre-stressed concrete Continuous Verify application of prestressing forces and grouting of bonded prestressing tendons in the seismic force-resisting system.										
NO 9. Erection of precast concrete Periodic Verify that all precast elements are lifted, Field inspection	1									
YES 10. In-situ concrete strength verification Periodic Prior to the removal of shores and forms or the Field inspection										
YES 10. In-situ concrete strength verification Periodic Prior to the removal of shores and forms or the Field inspection stressing of post-tensioned tendons, verify that adequate strength has been achieved.										
YES 11. Formwork Periodic Inspect the forms to ensure that they are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.	1									
NO 12. Reinforcement complying with ASTM A615 in special moment frames, special structural walls and coupling beams (only when Special Inspections for seismic resistance is required) Periodic Verify that ASTM A615 reinforcing steel used in these areas complies with ACI 318: 21.1.5.2 by means of certified mill test reports. If this reinforcing steel is to be welded, chemical tests shall be performed in accordance with ACI 318: 3.5.2. Field inspection	1									
NO 13. Reinforcement placement within progressive collapse resisting system (only when Special Inspections for progressive collapse resistance is required) Continuous Visually inspect reinforcing steel placement with a particular emphasis on reinforcing steel anchorages, laps and other details within the progressive collapse resisting system, including horizontal tie force elements, vertical tie force elements. Field inspection	<u> </u>									
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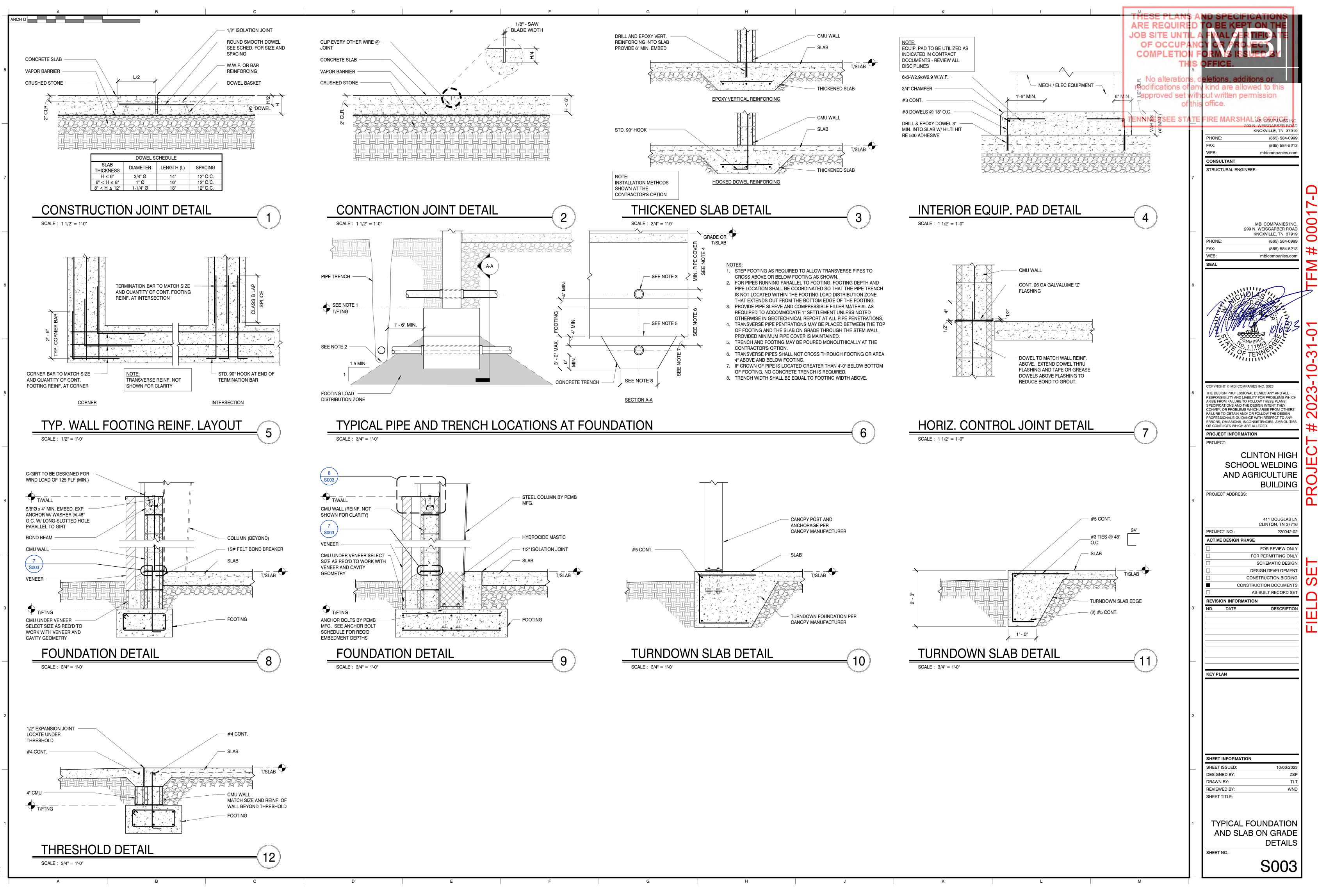
E	F	
TURAL STEEL C		
	5.4-1; AISC 341-16: Table J6-1)	
Extent	Description	Service
Perform		Submittal review
Observe		Shop and field inspection
Observe	A system shall be maintained by which a	Submittal review
	welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress dye type.	
Observe	Verify joint preparation, dimensions (alignment,	Shop and field
	root opening, root face, bevel), cleanliness (condition of surface steel), tacking (tack weld quality and location), and backing type and fit (if applicable).	inspection
Observe		Shop and field inspection
Observe	Verify dimensions (alignment, gaps at root), cleanliness (condition of steel surfaces), and tacking (tack weld quality and location).	Shop and field inspection
360-16: Table N5	5.4-2; AISC 341-16: Table J6-2)	
Extent	Description	Service
Observe		Shop and field
		inspection
Observe	Verify packaging and exposure control.	Shop and field inspection
Observe		Shop and field
		inspection
Observe	Verify wind speed within limits and precipitation and temperature criteria being met.	Shop and field inspection
Observe	Verify settings on weld equipment, travel speed, selecting welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained (min./max.), proper position (F, V, H, OH), and intermix of filler metals avoided unless approved.	Submittal review with shop and field verification
Observe	Verify interpass and final cleaning, each pass within profile limitations, and each pass meets guality requirements.	Shop and field inspection
Perform		Field inspection
	4-3; AISC 341-16: Table J6-3)	Comico
Extent	Description	Service
Observe Perform		Shop and field inspection
Perform	Verify crack prohibition, weld/base-metal	Shop and field inspection Shop and field
renom	fusion, crater cross section, weld profiles, weld size, undercut, and porosity.	inspection
Perform		Shop and field inspection
Perform	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3" of the weld.	Shop and field inspection
Perform /		Shop and field
Document		inspection
Perform / Document		Shop and field inspection
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Perform\		Shop and field
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Perform		Shop and field
		inspection
	5-3; AISC 341-16: Table J7-3)	
Extent	Description	Service
Perform		Field inspection
	ISC 360-16: N5.8)	
Extent	Description	Service
Perform	Verify the diameter, grade, type and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.	Field inspection

			prestressing tendons and anchorages		tendons shall be placed per 3.6A.	
ld	NO	4.	Prestressing technique	Periodic	Verify that prestressing technique complies with TMS 602: 3.6B.	Field inspectior
	NO	5.	Properties of thin-bed mortar for AAC masonry	Continuous / Periodic	Verify that mortar complies with TMS 602: 2.1 C.1. Continuous inspection for the first 5000 sf of wall and periodic for all following applications.	Field inspection
d d	NO	6.	Sample panel construction	Periodic	Verify that sample panels contain full range of unit and mortar color. Each procedure should be demonstrated on sample panel per TMS 602: 1.6D.	Field inspection
d				• • •	2/602-16: Table 4)	
-	Required	4	Task	Extent	Description	Service
d ew	YES	1.	Grout space	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per TMS 602: 3.2D and 3.2F.	Field inspectior
ield	NO	2.	Placement of prestressing tendons and anchorages.	Periodic	Verify that provided reinforcement conforms to TMS 602 2.4. Confirm tolerances for prestressed tendon placement and forces meet TMS 602: 3.6.	Field inspectior
d	YES	3.	Placement of reinforcement, connectors, and anchor bolts.	Periodic	Verify reinforcement was placed in grout space prior to grouting. Confirm reinforcement, wall ties, and anchors are sized, selected, and located as specified in the project drawings. TMS 602: 3.2E and 3.4.	
on	YES	4.	Proportions of site-prepared grout and prestressing grout for bonded tendons	Periodic	Verify that grout is proportioned per ASTM C476 and has a slump between 8" to 11". Self-consolidated grout shall not be proportioned onsite.	Field inspectior
		-	During Co	onstruction (TMS	402/602-16: Table 4)	
d	Required		Task	Extent	Description	Service
t	YES	1.	Materials and procedures with the approved submittals	Periodic	Ensure materials are used in compliance with construction procedures outlined in TMS 602: 1.5	Field Inspectior
b	YES	2.	Placement of masonry units and mortar joint construction	Periodic	Verify bed joins are constructed in compliance with TMS 602: 3.3B	Field Inspection
d	YES	3.	Size and location of structural members	Periodic	Verify the locations of structural elements with respect to the approved construction documents and confirm that tolerances meet the requirements of TMS 602: 3.3F.	Field inspectior
d	YES	4.	Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	Periodic	Verify that correct anchorages and connections are provided per the approved construction documents and TMS 402: 1.2.1, 6.2.1, and 6.3.1.	Field inspectior
b	NO	5.	Welding of reinforcement	Continuous	Verify welded reinforcement meets the requirements of TMS 402: 6.1.6.1.2.	Field inspectior
b	YES	6.	Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F)	Periodic	Verify that cold weather construction is performed in accordance with TMS 602: 1.8C and hot weather construction per TMS 602: 1.8D.	Field inspectior
Ł	NO	7.	Application and measurement of prestressing force	Continuous	Verify the proper prestressing force is applied per TMS 602: 3.6B.	Field inspection
d	YES	8.	Placement of grout and prestressing grout for bonded tendons is in compliance	Continuous	Verify placement of grout is done in accordance with TMS 602: 3.5 and placement of grout for bonded tendons is in accordance with TMS 602: 3.6C.	Field inspectior
'n	NO	9.	Placement of AAC masonry units and construction of thin-bed mortar joints	Continuous / Periodic	Verify that mortar is placed in accordance with TMS602: 3.3B.9 and 3.3F.1.b. Continuous inspection for the first 5000 sf of wall and periodic for all following applications.	Field inspectior
\neg	YES	10.	Observation of grout specimens, mortar specimens, and/or prisms	Periodic	Confirm that specimens/prisms are performed as required by TMS 602: 1.4.	Field inspection
on	L	-1		SOILS CONSTR		
				Soil (2018 IBC: Ta		
n	Required YES	1.	Task Foundation bearing capacity	Extent Periodic	Description Verify the materials below foundations are adequate to achieve the design bearing capacity.	Service Field inspectior
	YES	2.	Excavations	Periodic	Verify the excavations are extended to the proper depth and have reached proper material.	Field inspectior
	YES	3.	Perform classification and testing of compacted fill materials	Periodic		Field inspection
	YES	4.	Compacted fill material	Continuous	Verify the use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Field inspection

THESE PLANS	A	ND SPECIFICATIONS	
ARE REQUIRE	D	O BE KEPT ON THE	
JOB SITE UNTI	LA	FNAL CERTIFICATE	
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COMPLETIO	N F	ORM IS ISSUED BY	
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No alteration	s d	eletions, additions or	
modifications of		kind are allowed to this	
		out written permission	
of	this	office.	
TENNNESSEE STA	TE	FIRE MARSHAL'S OFFANES INC.	
		299 N. WEISGARBER ROAD KNOXVILLE, TN 37919	
		PHONE: (865) 584-0999	
		FAX: (865) 584-5213	
		WEB: mbicompanies.com CONSULTANT	
		STRUCTURAL ENGINEER:	
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		PROJECT NO.: 220042-02	
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		DRAWN BY: TLT REVIEWED BY: WND	
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		SHEET NO.:	
		S002	

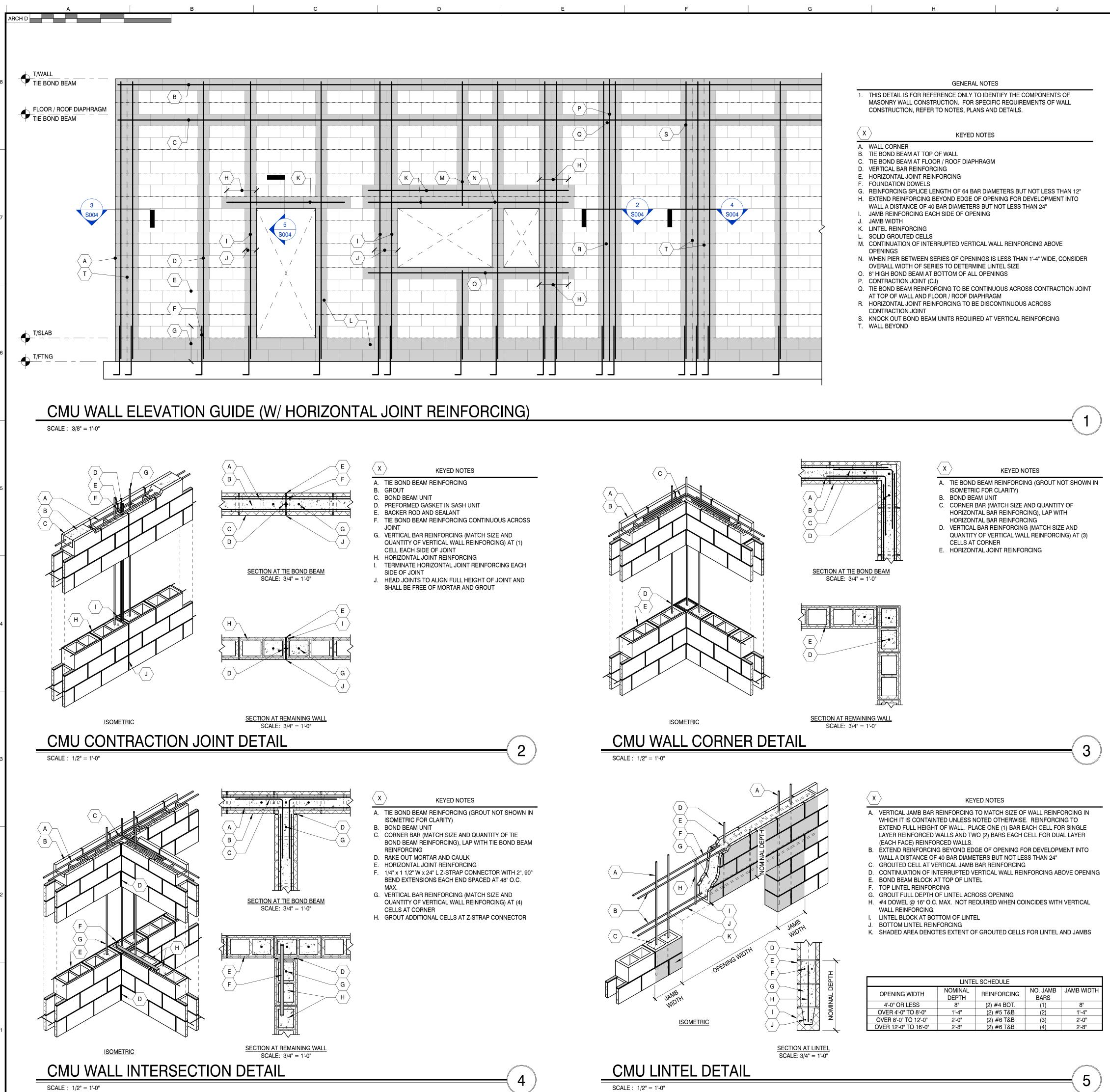
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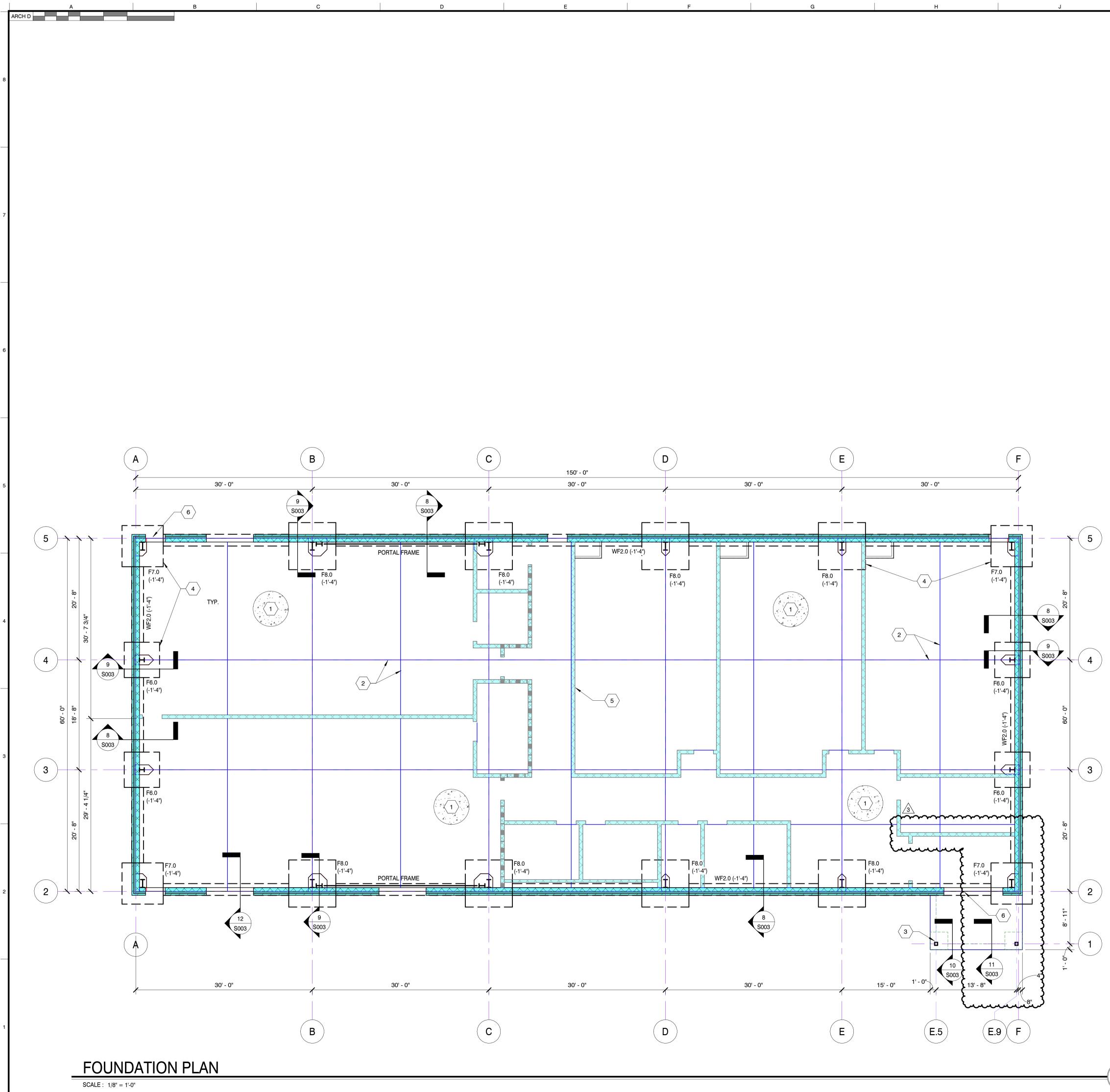
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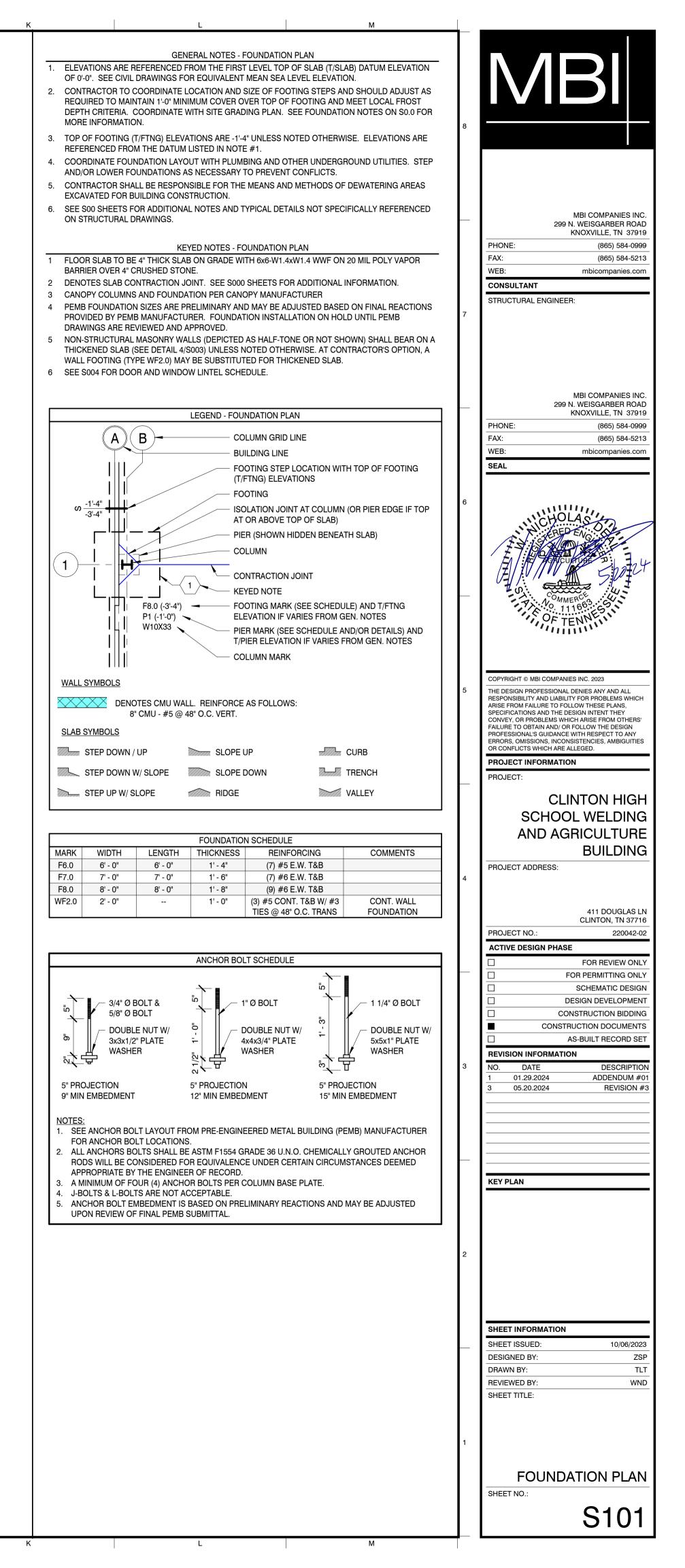
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<u> </u>	KEYED NOTES
Α.	WALL CORNER
В.	TIE BOND BEAM AT TOP OF WALL
C.	TIE BOND BEAM AT FLOOR / ROOF DIAPHRAGM
D.	VERTICAL BAR REINFORCING
Ε.	HORIZONTAL JOINT REINFORCING
F.	FOUNDATION DOWELS

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J SPECIFICATION ADE DE LOOSE LAID LINTEL SCHEDULES TTE OPENING WIDTH LINTEL SIZE .6x3-1/2x5/16 LLH 4'-0" OR LESS BACKUP WALL OVER 4'-0" TO 8'-0" L6x4x5/16 LLH L6x6x3/8 OVER 8'-0" TO 12'-0" VENEER OVER 12'-0" TO 14'-0" L8x6x7/16 LLV NOTES: AIR GAP PROVIDE 8" (MIN.) BEARING EACH END OF IT LINTEL. INSULATION kind are allowed to this ALL LINTELS SHALL BE GALVANIZED IN CO nout written permission ACCORDANCE WITH ASTM A123200 TOV PROVIDE COLD-FORMED HORIZONTAL LEG SIZE ABOVE COINCIDES office. STEEL CLOSURE FOR WITH A 4" NOMINAL WIDTH VENEER AND A 2" INSULATION MIN. AIR GAP. INCREASE HORIZONTAL LEG IRE MARSHAL MBI COMPANIES IN SIZE AS REQUIRED TO MAINTAIN 1" MAXS S LINTEL VENEER OVERHANG PAST LINTEL EDGE. 9 N. WEISGARBER RO KNOXVILLE, TN 37919 PHONE: (865) 584-0999 **BRICK LINTEL DETAIL** (865) 584-521 6 WFB: mbicompanies.co SCALE : 1" = 1'-0" CONSULTANT STRUCTURAL ENGINEER: MBI COMPANIES INC 299 N. WEISGARBER ROAD KNOXVILLE, TN 3791 (865) 584-0999 PHONE: (865) 584-521 WEB: mbicompanies.co SEAL 3 \mathbf{O} COPYRIGHT © MBI COMPANIES INC. 2023 THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHIC ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIE OR CONFLICTS WHICH ARE ALLEGED. **PROJECT INFORMATION** PROJECT: **CLINTON HIGH** SCHOOL WELDING AND AGRICULTURE BUILDING PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 3771 PROJECT NO .: 220042-0 ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONL SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENT AS-BUILT RECORD SE **REVISION INFORMATION** DESCRIPTIO DATE KEY PLAN SHEET INFORMATION SHEET ISSUED: 10/06/202 DESIGNED BY: ZSP DRAWN BY: TIT REVIEWED BY: WND SHEET TITLE: TYPICAL CMU DETAILS W/ HORIZONTAL JOINT REINFORCING SHEET NO .: S004 М





PART I 1.01 A. SEC B 1.02 (A. (A. (1.03 § A. B. § C. / I.03 § A. B. § C. / E.	N 15300 - FIRE PROTECTION GENERAL DESCRIPTION OF WORK: XTENT OF FIRE PROTECTION WORK IS INDICATED ON DRAWINGS AND SCHEDULES, AND BY REQUIREMENTS OF THIS TION. HE SYSTEM SHALL BE WET PIPE SYSTEM QUALITY ASSURANCE: JODES AND STANDARDS: . NFPA COMPLIANCE: INSTALL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 "STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS". NFPA 14, "STANDARDS FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS" AND NFPA 24 "STANDARD FOR OUTSIDE PROTECTION." . UL COMPLIANCE: PROVIDE FIRE PROTECTION PRODUCTS IN ACCORDANCE WITH UL STANDARDS; PROVIDE UL LABEL ON EACH PRODUCT. . FIRE DEPARTMENT/MARSHAL COMPLIANCE: INSTALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH UL STANDARDS; PROVIDE UL LABEL ON EACH PRODUCT. . FIRE DEPARTMENT OR FIRE MARSHAL. . QUALIFICATIONS: HYDRAULIC CALCULATIONS AND PREPARATION OF SHOP DRAWINGS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A RESPONSIBLE MANAGING EMPLOYEE WHO HOLDS A NCET LEVEL III CERTIFICATION. INSTALLATION SHALL BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR. JUBMITTALS: "RODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR FIRE PROTECTION MATERIALS AND PRODUCTS WITH A TABLE OF CONTENTS. IDENTIFY MATERIAL, SIZE , AND MODEL NUMBER OF EACH PRODUCT. HOP DRAWINGS: SUBMIT SCALED LAYOUT DRAWINGS OF FIRE PROTECTION PIPE AND HITTINGS INCLUDING, BUT NOT LIMITED TO, "PER AND TUBE SIZES, LOCATIONS, ELEVATIONS, AND SLOPES OF HORIZONTAL RUNS, WALL AND FLOOR PENETRATIONS, AND ZONNECTIONS. INDICATE INTERFACE AND SPATIAL RELATIONSHIPS BETWEEN PIPING AND APPROVAL. SUBMIT TON LEMPTY PROVAL DRAWINGS: PREPARE APPROVAL DRAWINGS OF FIRE PROTECTION SYSTEMS INDICATING PIPE SIZES, PIPE LOCATIONS, HTINGS, SHUTOFFS, EQUIPMENT, ETC. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT ONE APPROVED COPY, EARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION BER PROVAL. SUBMIT TO APPROVED COPY, EARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION SYSTEMS INDICATING PIPE SIZES, PIPE LOCATIONS	A. B. C. D. E. 2.10 A.	AUTOMATIC GENERAL: LISTING. PF INDICATED. 1. UPRIGHT 2. PENDEN 3. FLUSH F 4. CONCE/ 5. HORIZO 6. FINISH: ACIDS, 0 APPPROVEI SPRINKLER IN AREAS S SPRINKLER IN VARIOUS 1/2", 3/4", OF WALL TYPE GENERAL: DEPARTME EQUIPPED V
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D. / D. / E. I	BEARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION.		1. FINISH: 2. INLET PI
- / E.	APPROVAL CALCULATIONS' PREPARE HYDRAULIC CALCULATIONS OF FIRE PROTECTION SYSTEM USING A FIRE HYDRANT FLOW TEST		3. CAST LE 4. ESCUTC
E. I	HAT IS NO MORE THAN 6 MONTHS OLD. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT TO ARCHITECT, ONE		5. SIAMES CONFIG
	APPROVED COPY, BEARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION. RECORD DRAWINGS: AT PROJECT CLOSEOUT, SUBMIT RECORD DRAWINGS OF INSTALLED FIRE PROTECTION PIPING AND PRODUCTS.		 PROVIDI APPROV
2.01 I	PRODUCTS //ATERIALS AND PRODUCTS:		III EXECUTIO INSPECTIOI
-	GENERAL: PROVIDE PIPING MATERIALS AND FACTORY-FABRICATED PIPING PRODUCTS OF SIZES, TYPES, PRESSURE RATINGS, "EMPERATURE RATINGS, AND CAPACITIES AS INDICATED. WHERE NOT INDICATED, PROVIDE PROPER SELECTION AS DETERMINED BY		GENERAL: DO NOT PR
I	NSTALLER TO COMPLY WITH INSTALLATION REQUIREMENTS. PROVIDE SIZES AND TYPES MATCHING PIPING AND EQUIPMENT CONNECTIONS; PROVIDE FITTINGS OF MATERIALS WHICH MATCH PIPE MATERIALS USED IN FIRE PROTECTION SYSTEM.		INSTALLER INSTALLATI
2.02	BASIC IDENTIFICATION: GENERAL: PROVIDE IDENTIFICATION AS FOLLOWS;	А.	GENERAL:
	. FIRE PROTECTION PIPING: PLASTIC PIPE MARKERS 2. FIRE PROTECTION VALVES: PLASTIC VALVE TAGS.	3.03	INSTALLATI GENERAL:
2.03	BASIC PIPES AND PIPE FITTINGS: GENERAL: PROVIDE PIPES AND PIPE FITTINGS AS FOLLOWS:		SPECIFIED.
B. I	BLACK STEEL PIPE: SCHEDULE 40 FOR ABOVE 6"; BLACK STEEL PIPE: SCHEDULE 10 FOR 6" AND SMALLER; MECHANICAL GROOVED	В.	DUCTILE-IR
(PIPE COUPLINGS (VICTAULIC 009N/108 IGS SYSTEM OR EQUAL) AND FITTINGS (FIRELOCK, VICTAULIC IR FITTINGS, OR EQUAL); ROLL- GROOVE AND MECHANICAL LOCKING TYPE.	C.	ASSOCIATIO
/	DUCTILE IRON PRESSURE PIPE: AWWA C-106 WITH FITTINGS COMPLYING WITH AWWA C-110 AND RUBBER GASKETS COMPLYING WITH AWWA C-111.	E.	CONTROL
(BRAIDED FLEXIBLE, SPRINKLER HOSE FITTINGS: BRAIDED, FLEXIBLE HOSE FOR CONNECTION TO SPRINKLER WITH BRACKET FOR CONNECTION TO CEILING GRID.	F.	IRON ADAP
E. I	. APPROVED MANUFACTURERS: VICTAULIC [AH2, AH2CC, AB6, VS1, OR VS2] OR EQUAL. 3RANCH OUTLET FITTINGS:		1. IF THE II DEFECT
	. BODY MATERIAL: DUCTILE-IRON HOUSING WITH EPDM SEALS AND BOLTS AND NUTS. 2. TYPE: MECHANICAL-T AND -CROSS FITTINGS.		CLEANING MAINTAIN S
	 BRANCH OUTLETS: GROOVED, PLAIN-END PIPE, OR THREADED. APPROVED MANUFACTURERS: ANVIL, TYCO, AND VICTAULIC. 		CONDUIT A
	BASIC PIPING SPECIALTIES: GENERAL: PROVIDE PIPING SPECIALTIE:		REQUIRED
-	. PIPE ESCUTCHEONS 2. DIELECTRIC UNIONS		GENERAL: JURISDICTI
;	B. DRIP PANS I. PIPE SLEEVES		CONTRACT COMPLY W
Ę	5. SLEEVE SEALS 5. FIRE BARRIER PENETRATION SEALS		PIPING PRC
2.05 I	BASIC SUPPORTS AND ANCHORS: GENERAL: PROVIDE SUPPORTS AND ANCHORS AS FOLLOWS:		PURPOSES
	. ADJUSTABLE STEEL CLEVIS HANGERS, ADJUSTABLE STEEL BAND HANGERS, OR ADJUSTABLE BAND HANGERS, FOR HORIZONTAL PIPING HANGERS AND SUPPORTS.		PROTECTIC INSTALL DF
	2. TWO-BOLT RISER CLAMPS FOR VERTICAL PIPING SUPPORTS. 3. STEEL TURNBUCKLES AND MALLEABLE IRON SOCKETS FOR HANGER-ROD ATTACHMENTS.	E.	INSTALL SE
	 CONCRETE INSERTS, TOP-BEAM C-CLAMPS, SIDE BEAM OR CHANNEL CLAMPS OR CENTER BEAM CLAMPS FOR BUILDING ATTACHMENTS. 	G.	INSTALL W.
	ATTACHMENTS. ANCHORS: . GENERAL: PROVIDE ANCHORAGES FOR TEES, PLUGS, CAPS, BENDS, AND HYDRANTS IN ACCORDANCE WITH NFPA 24.	Н.	MOUNT SU
	2. CLAMPS, STRAPS AND WASHERS: STEEL, ANSI/ASTM A-506	J.	INSTALL M
4	8. RODS: STEEL, ANSI/ASTM A-575 9. OD COUPLINGS: MALLEABLE IRON, ANSI/ASTM A-197	L.	INSTALL IN
(5. BOLTS: STEEL, ANSI/ASTM A-307 5. CAST-IRON WASHERS: ANSI/ASTM A-126, CLASS A		1. FINISH: 2. APPRO\
2.06	7. THRUST BLOCKS: 2500 PSI CONCRETE BASIC VALVES:	А.	INSTALLAT
B. I	GENERAL: PROVIDE VALVES AS FOLLOWS: NTERIOR VALVES:		DETECTOR BY-PASS M
	. SECTIONAL: GATE VALVES OR BUTTERFLY VALVES; UL LISTED. 2. CHECK: SWING CHECK VALVES; UL LISTED.	3.06	INSTALL BA
	EXTERIOR VALVES: . GATE VALVES: STANDARD SHUT-OFF VALVES CAST INTO BODY, OUTSIDE-SCREW-AND-YOKE TYPE COMPLYING WITH AWWA C-500.		GENERAL: REQUIREMI
	SIZES 2" AND SMALLER SHALL BE BRONZE, 175 PSI WG, RISING STEM, SCREWED BONNET. SIZES 2 1/2" AND LARGER SHALL BE IRON BODY BRONZE MOUNTED, 175 PSI WG, SOLID WEDGE, REPLACEABLE SEAT (VICTAULIC SERIES 771, OR EQUAL).	А.	FIELD QUAI SPRINKLER
:	2. CHECK VALVES: GRAVITY-OPERATED, REGULAR TYPE, IRON-BODIED, BRONZE FITTED WITH METAL-TO-METAL OR RUBBER FACED CHECKS, COMPLYING WITH ASTM A-12 (VICTAULIC SERIES 717, OR EQUAL).		CONNECTIO
;	 BUTTERFLY VALVES: RUBBER SEATED, EQUIPPED WITH GEAR OR TRAVELLING NUT ACTUATOR TO MINIMIZE WATER HAMMER, COMPLYING WITH AWWA C-50 (VICTAULIC SERIES 705 FIRELOCK, OR EQUAL). 		SUBSTANC THAT DEBR
	I. INDICATOR POSTS: TELESCOPIC BARREL TYPE FOR USE WITH UNDERGROUND GATE VALVES.		PERFORM I
A. (GENERAL: PROVIDE VALVES, UL LISTED, IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE SIZES AND TYPES WHICH MATE AND MATCH PIPING AND EQUIPMENT CONNECTIONS.		HYDROSTA NOT LESS
B. /	ALARM CHECK VALVE: PROVIDE CAST-IRON WATER FLOW ALARM CHECK VALVE, 175 PSI WORKING PRESSURE. PROVIDE TRIM FOR 3YPASS, DRAIN, ALARM, PRESSURE GAUGES AND FILL LINE.		OF 150 PSI. ZONE BEIN
	. APPPROVED ALARM CHECK VALVE MANUFACTURERS: BERMAD, VICTAULIC (FIREPAC ALLOWED), OR EQUAL.		REPAIR OR
١	FIRE DEPARTMENT CONNECTION VALVE: PROVIDE FIRE DEPARTMENT CONNECTION IRON SWING CHECK VALVE, 175 PSI RATED WORKING PRESSURE, OF SIZE AND END TYPE INDICATED.		OR NO LEA
(DETECTOR CHECK VALVES: PROVIDE CAST-IRON BODY DETECTOR CHECK VALVE, BRONZE FITTED, WITH TAPPED BOSSES ON EACH SIDE FOR BY-PASS METER, AIR VENT, AND COVER-MOUNTED EYEBOLT.		CLEANING
E. I	. APPPROVED DETECTOR CHECK VALVE MANUFACTURERS: AMES, WATTS, WILKINS BACKFLOW PREVENTION VALVES DEDUCED DEVICE ADDREVED TO SERVE ADDREVED TO SERVE ANTO MATER OPPINISHED OVERTEM FROM POTADLE WATER	3.09	THE WEIGH
	. PROVIDE APPROVED DOUBLE VALVE ASSEMBLIES TO SEPARATE AUTOMATIC FIRE SPRINKLER SYSTEM FROM POTABLE WATER SYSTEM.		HEADS: FC
2.08 I	2. APPPROVED DOUBLE CHECK VALVE MANUFACTURERS: AMES, WATTS, WILKINS HYDRANTS:	В.	WRENCHE
5	GENERAL: PROVIDE CAST-IRON SIDEWALK FIRE HYDRANTS WITH THREADED MALE NOZZLE CONFORMING TO "AMERICAN NATIONAL STANDARD FIRE HOSE CONNECTION SCREW THREADS" UNLESS OTHER HOSE CONNECTION REQUIRED BY LOCAL FIRE AUTHORITIES.		
	PROVIDE DRY-BARREL FIRE HYDRANTS (BASE VALVE TYPE) COMPLYING WITH AWWA C-502 AND AS FOLLOWS: . WORKING PRESSURE, L50 PSI UNLESS OTHERWISE INDICATED.		
	2. VALVE OPENING DIRECTION, CLOCKWISE, INDICATED BY ARROW AND THE WORD "OPEN" CAST ON DOME. 3. NOZZLES, TWO 2-1/2" HOSE CONNECTIONS AND ONE 4-1/2" PUMPER CONNECTION WITH CAPS AND CHAINS. NOZZLE CAP NUTS TO		
	MATCH OPERATING STEM NUTS. PROVIDE NATIONAL STANDARD HOSE THREADS ON 2-1/2". HOSE THREADS ON 4-1/2" PUMPER CONNECTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: O.D4.875", P.D4.777", ROOT DIAMETER 4,653", 6 THREADS		
	PER INCH, GAUGE 2C.		

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UTOMATIC SPRINKLERS OF TYPE INDICATED ON DRAWINGS, AND IN ACCORDANCE WITH THE FOLLOWING SIBLE LINKS FOR 165°F (74°C) AND SPRINKLERS WITH NOMINAL 1/2" DISCHARGE ORIFICE UNLESS OTHERWISE

DENT

WALL

PLATE FOR OCCUPIED AREAS, CAST BRASS FOR UNOCCUPIED AREAS, WAX COATED WHERE EXPOSED TO OR OTHER CORROSIVE FUMES. ER HEAD MANUFACTURERS: RELIABLE, VICTAULIC, VIKING, TYCO

AND WRENCH: FURNISH STEEL, BAKED RED ENAMELED, SPRINKLER BOX WITH CAPACITY TO STORE 12 ENCH SIZED TO SPRINKLERS.

) PHYSICAL ABUSE SUCH AS GYMNASIUMS AND MECHANICAL ROOMS, PROVIDE STEEL WIRE GUARDS OVER TIONS, UL LISTED AND FM APPROVED VICTAULIC V9 INSTALLATION READY COUPLING MAY BE USED TO JOIN

KLER HEADS ONTO THE 1" IGS OUTLET, OR APPROVED EQUAL. CONNECTIONS: VALL TYPE CAST BRASS SIAMESE CONNECTIONS AND ESCUTCHEON PLATE ASSEMBLY, WITH 2, 2-1/2" FIRE WITH FEMALE HOSE CONNECTIONS, AMERICAN NATIONAL FIRE HOSE CONNECTION SCREW THREAD, IDUAL DROP CLAPPER VALVES, EQUIPPED WITH PLUGS AND CHAINS, CONSTRUCTION FEATURES AS

STRUCTED WITH THE FOLLOWING ADDITIONAL CONSTRUCTION FEATURES: BRASS

"AUTO. SPKR." DIAMETER OF 7" X 14" RECTANGLE

TION: FLUSH, STACKED INLETS; FLUSH, ADJACENT INLETS; Y-TYPE, INLETS STRAIGHT, PROJECTING OR Y-TYPE, INLETS 45°, PROJECTING CONFIGURATION.

FACTURERS: CROKER, GUARDIAN FIRE, POTTER ROEMER, AND VIKING

AREAS AND CONDITIONS UNDER WHICH FIRE PROTECTION MATERIALS AND PRODUCTS ARE TO BE INSTALLED. ITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO

SIC IDENTIFICATION:

IECHANICAL IDENTIFICATION SUCH THAT ALL FIRE PROTECTION PIPING AND EQUIPMENT CAN BE IDENTIFIED. TION SIGNS ON PIPING IN ACCORDANCE WITH NFPA 13 AND NFPA 14 REQUIREMENTS. TSIDE PIPING:

TERIOR FIRE WATER SYSTEM IN COMPLIANCE WITH APPLICABLE PROVISIONS OF NFPA 24 AND AS HEREIN AND PAY FOR TAPS AND SERVICE BY LOCAL WATER UTILITY. FOR SLIP-JOINT PIPE, PROVIDE 3000 PSI LOCKS AGAINST UNDISTURBED SOIL.

INSTALL IN ACCORDANCE WITH RECOMMENDED PROCEDURES OF THE CAST-IRON PIPE RESEARCH IN ACCORDANCE WITH AWWA M-17.

STALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

AKE JOINTS BETWEEN CAST-IRON PIPE AND OTHER TYPES OF PIPE WITH STANDARD MANUFACTURED CAST-FITTINGS.

INSPECT CONDUIT TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INDICATES POOR ALIGNMENT, DEBRIS, DISPLACED PIPE, INFILTRATION, OR OTHER DEFECTS, CORRECT SUCH

FACTION OF ARCHITECT/ENGINEER. CLEAR INTERIOR OF CONDUIT OF DIRT AND OTHER SUPERFLUOUS MATERIALS AS WORK PROGRESSES. PRAG IN LINE AND PULL PAST EACH JOINT AS IT IS COMPLETED. PLACE PLUGS IN END OF UNCOMPLETED DAY OR WHENEVER WORK STOPS. FLUSH LINES TO REMOVE COLLECTED DEBRIS BEFORE CONNECTING TO ION SYSTEMS. FLUSH CONDUIT AT RATES OF FLOW RECOMMENDED BY NFPA 24 UNLESS HIGHER RATES AUTHORITIES.

PES AND PIPE FITTINGS:

IPES AND PIPE FITTINGS IN ACCORDANCE WITH DRAWING AND REQUIREMENT OF AUTHORITY HAVING THAT ALL WORK INCLUDING UNDERGROUND LINES MUST BE INSTALLED BY A LICENSED SPRINKLER

REMENTS OF NFPA 13 AND NFPA 14 FOR INSTALLATION OF FIRE PROTECTION PIPING MATERIALS. INSTALL HERE INDICATED, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE IDUSTRY PRACTICES TO ENSURE THAT PIPING SYSTEMS COMPLY WITH REQUIREMENTS AND SERVE INTENDED

THER WORK, INCLUDING PLUMBING PIPING, AS NECESSARY, TO INTERFACE COMPONENTS OF FIRE

ROPERLY WITH OTHER WORK.

AT LOW POINTS OF PIPING SYSTEMS. PROVIDE DRY DRUM DRIPS WHERE INDICATED. VALVES IN INLET PIPING, AT BOTTOM OF EACH RISER, AND IN LOOPS.

MENT CONNECTION VALVES IN PIPING WHERE FIRE DEPARTMENT CONNECTIONS ARE INDICATED.

INDICATORS WHERE INDICATED. FACTURERS: POTTER, VIKING, AND WATTS.

SWITCHES ON EACH SECTIONAL VALVE.

AGES ON RISER OR MAIN FEED, AT EACH SPRINKLER TEST CONNECTION, AND AT TOP OF EACH STANDPIPE. UTOFF AT EACH AUDIBLE ALARM STATION.

TEST CONNECTIONS WHERE INDICATED, OR AT MOST REMOTE POINT FROM RISER.

LY OPERATED ALARM BELL NEAR FIRE DEPARTMENT CONNECTION. MEL FACTORY FINISH, SUITABLE FOR OUTDOOR USE.

FACTURERS: FIRE-LITE ALARMS, NOTIFIER, AND POTTER.

VFS: PER MANUFACTURES WRITTEN RECOMMENDATIONS.

LVES: INSTALL IN HORIZONTAL POSITION AS INDICATED, ORIENTED FOR PROPER FLOW DIRECTION. INSTALL I GLOBE VALVE AND CHECK VALVE, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DIRECTIONS. PREVENTION VALVE TO SEPARATE SPRINKLER SYSTEM FROM POTABLE WATER SYSTEM.

PROTECTION SPECIALTIES: IRE PROTECTION SPECIALTIES AS INDICATED, AND IN ACCORDANCE WITH NFPA 13 AND 14. FURNISH WIRING ECTRICAL INSTALLER FOR ELECTRICAL WIRING OF SUPERVISORY SWITCHES.

USHING: PRIOR TO CONNECTING SPRINKLER RISERS FOR FLUSHING, FLUSH WATER FEED MAINS, LEAD-IN CONTROL PORTIONS OF SPRINKLER PIPING. AFTER FIRE SPRINKLER PIPING INSTALLATION HAS BEEN FORE PIPING IS PLACED IN SERVICE, FLUSH ENTIRE SPRINKLER SYSTEM, AS REQUIRED TO REMOVE FOREIGN PRESSURE AS SPECIFIED IN NFPA 13. CONTINUE FLUSHING UNTIL WATER IS CLEAR, AND CHECK TO ENSURE

CLOGGED SPRINKLERS. TIC TESTING OF COMPLETED OUTSIDE LINES IN ACCORDANCE WITH NFPA 24 UNLESS MORE STRINGENT TEST AUTHORITIES HAVING JURISDICTION.

IG: AFTER FLUSHING SYSTEM, TEST FIRE SPRINKLER PIPING HYDROSTATICALLY, FOR PERIOD OF 2 HOURS, AT PSI OR AT 50 PSI IN EXCESS OF MAXIMUM STATIC PRESSURE WHEN MAXIMUM STATIC PRESSURE IS IN EXCESS YSTEM FOR LEAKAGE OF JOINTS. MEASURE HYDROSTATIC PRESSURE AT LOW POINT OF EACH SYSTEM OR

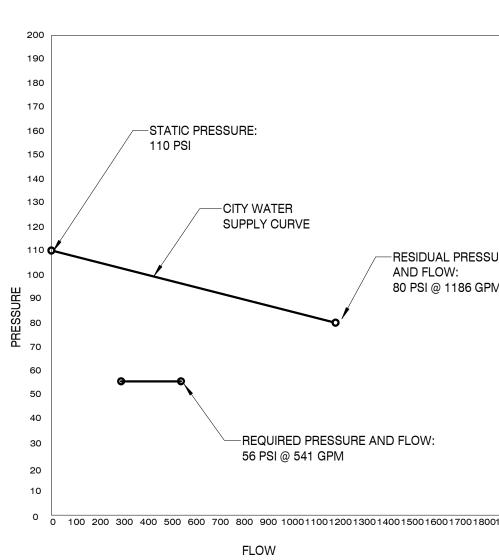
PIPING SYSTEM AS REQUIRED TO ELIMINATE LEAKAGE IN ACCORDANCE WITH NFPA STANDARDS FOR "LITTLE RETEST AS SPECIFIED TO DEMONSTRATE COMPLIANCE.

ANING: ECTING: CLEAN AND INSPECT FIRE PROTECTION SYSTEMS TO BE WIP-DOWN CLEAN AND FREE FROM LEAKS ECT PIPE HANGERS TO INSURE SECURE STRUCTURAL CONNECTION AND THE HANGER IS TIGHT AND CARRYING IPE.

TYLE AND TEMPERATURE RANGE REQUIRED, FURNISH ADDITIONAL SPRINKLER HEADS, AMOUNTING TO ONE INSTALLED UNITS, BUT NOT LESS THAN 5 UNITS OF EACH. H 2 SPANNER WRENCHES FOR EACH TYPE AND SIZE OF VALVE CONNECTION AND FIRE HOSE COUPLING.

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PRELIMINARY SPRINKLER CALCUL

Flow test Data Static Pressure: 110 Residual Pressure: 80 Flow (GPM) : 1186 Date taken: JULY 03, 2023 Time: 2:20 PM Test taken by: CLINTON FIRE DEPARTMENT Elevation of Hydrant: 0 GPM Demand of BLDG. Most remote area or highest demand (Room Name) WE Design Density (NFPA 13 or supplied by Insurance Co.) 0.15 150 Design Area (Square footage) Overage Factor (1.20 typ.) Remote area GPM demand(Density x Area x Overage) 29 Standpipe GPM demand (If required)(500 gpm for the first, 250 after) Hose GPM demand (100 Light, 250 ordinary, 500 extra hazard) 250 Total GPM (Remote Area + Standpipe + Hose) 54 Available Pressure 0.1 Density Max Sprinkler Head coverage (As per NPFA 13 table 4-2.2) 12 Square footage spacing x Density = GPM sprinkler head (Q) 18. 5.6 K-Factor of Sprinkler head (K) Equation: Pressure required at head=(Q / K)2 11 Elevation difference from test hydrant to base of riser x .433 10 Elevation difference from base of riser to remote area x .433 15 Backflow Preventer pressure drop Safety Factor (5 psi min.) (SF) Fixed Pressure drop = Estimated Friction Drop Thru Fire Line Length of run from test hydrant to riser (HR) 300 Pipe C Factor (Ductile Iron C-100) 100 Nominal Pipe Inside Diameter (10", 8", 6", 4", 3")

Friction loss in pipe (psi/ft) (Based on Hazen William Equation) (HW1) $HR \times 1.30 \times HW1 =$

Length of run from riser to last sprinkler head (estimated.)

Base of Riser to farthest sprinkler Pipe C Factor (Black Steel C-120) Nominal Pipe Inside Diameter (6", 4", 3", 2-1/2", 2")

K

L

Friction loss in pipe (psi/ft) (Based on Hazen William Equation) 0.08 (HW2) 18 RS x 1.30 x HW2 =

Estimated Required Flow Data for Building . Required GPM Required PSI

SPRINKLER LEGEND

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SY	DESCRIPTIO	SPRA	ТҮР	TEMP.	ORIFICE	
	PENDENT	15' X 15'	QUICK RESPONSE	165°	1/2"	
0	UPRIGHT	15' X 15'	STANDARD	212°	1/2"	
	DRY SIDEWALL	15'	STANDARD	175°	1/2"	

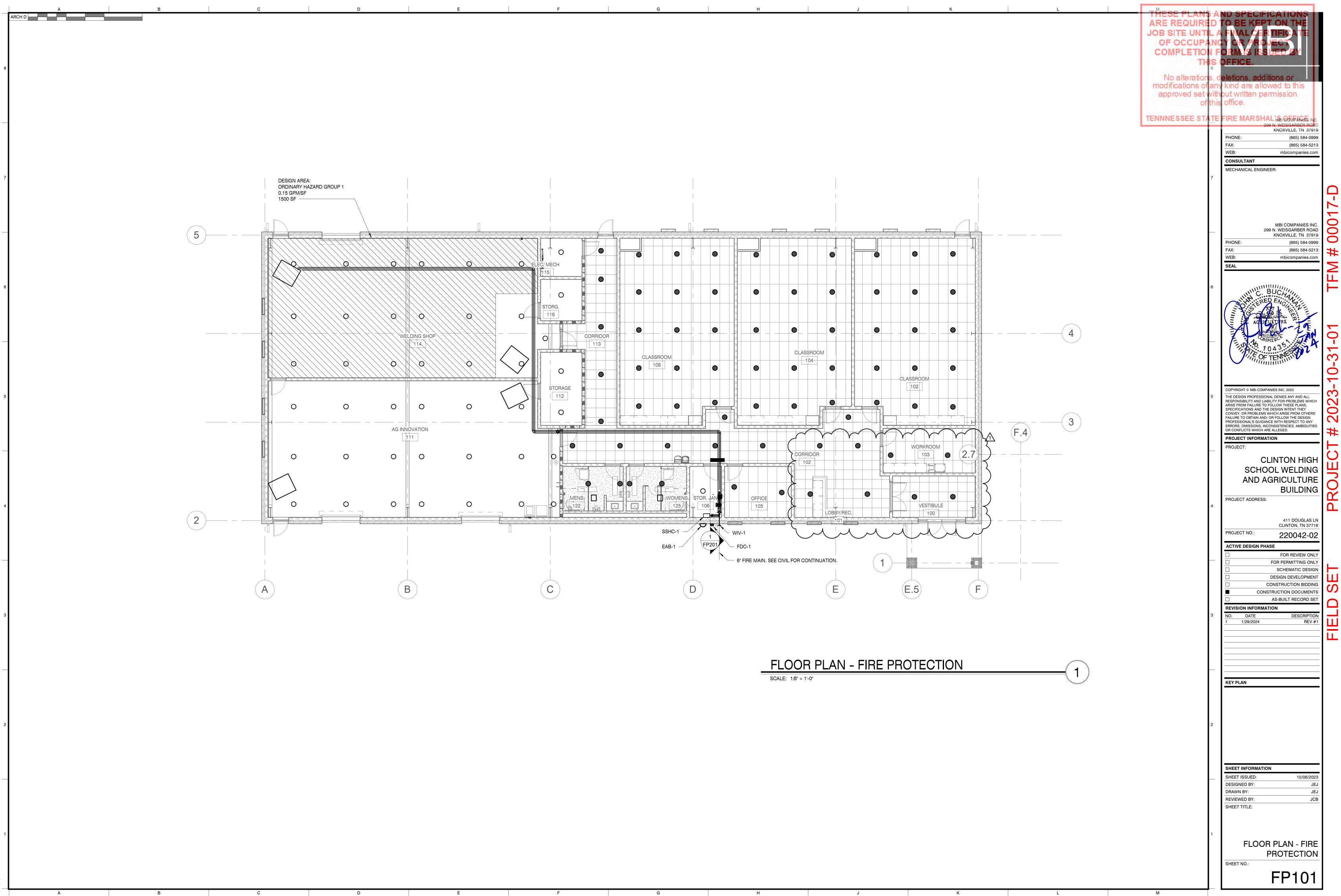
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К	L	M	PI ANS	-01		ATIONS	
		ARE RE	EQUIRE	D	O BE KEPT	ON THE	
	FIRE PROTECTION GENERAL N		E UNTI CCUPA		FNAL CERT	IFICATE	
	1. THE SPRINKLER HEADS SHOWN ARE GENERAL IN NUMBER AND LOCA EXACT NUMBERS AND LOCATIONS SHALL BE DETERMINED BY THE S SPRINKLER INSTALLER AND SHALL BE SHOWN ON HIS SHOP DRAWIN SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATION	UCCESSFUL IGS. THE	LETIO TH	IS 8 s. de	ORM 13 ISSU OFFICE. eletions, additio	ED BY	
	13 & 24. 2. PROVIDE A HYDRAULICALLY DESIGNED FULL COVERAGE SPRINKLER		ations of	any	kind are allowe	ed to this	
RESSURE	3. PROVIDE DRY PENDANT TYPE HEADS IN COOLER, FREEZER AND/OR OF THAT ARE SUBJECT TO FREEZING FOR FREEZE PROTECTION.	OTHER AREAS	of	this	office.		
36 GPM	4. THE SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF S HEADS AND ASSOCIATED PIPING WITH ALL OTHER TRADES.	FENNNES PRINKLER	SEE STA	TE		MBI COMPANIES INC. . WEISGARBER ROAD KNOXVILLE, TN 37919	
	5. ALL SPRINKLER HEADS LOCATED IN 2'x4' TILES SHALL BE CENTERED.				PHONE: FAX:	(865) 584-0999 (865) 584-5213	
	6. SPRINKLER SYSTEM SHALL BE LIGHT HAZARD IN ALL AREAS, EXCEPT HAZARD GROUP I IN THE WELDING SHOP, AG INNOVATION, ELECTRICAL/MECHANICAL ROOM.				WEB: CONSULTANT MECHANICAL ENGINEER	mbicompanies.com	
	7. CONTRACTOR SHALL VERIFY LOCATION AND INSTALLATION REQUIRE BACKFLOW PREVENTER WITH THE LOCAL AUTHORITY HAVING JURISE LOCAL WATER UTILITY BEFORE CONSTRUCTION OR SITE EXCAVATIO	DICTION, AND		1			Q
	8. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FULL REPLACE OF SURFACES DAMAGED BY DRAINAGE FROM THE SPRINKLER SYSTE						17-
00 1 8001 900 2000	 THE CONTRACTOR MUST PROVIDE A CERTIFIED CALCULATION DEMO THE CHARACTERISTICS OF THE PROPOSED SYSTEM AND SHOWING I SYSTEM FLOW. 				299 N k	MBI COMPANIES INC. . WEISGARBER ROAD (NOXVILLE, TN 37919	000
	10. THE MINIMUM PIPE SIZE FOR THE UNDERGROUND SPRINKLER MAIN IS CONTRACTOR TO VERIFY WITH A CERTIFIED CALCULATION. THE MINI DEPTH FOR THE FIRE MAIN IS 36" BELOW FINISHED GRADE.				PHONE: FAX: WEB:	(865) 584-0999 (865) 584-5213 mbicompanies.com	#
CULATION	11. PROVIDE A "PUMPER" HYDRANT WITHIN 100' OF THE FIRE DEPARTMEN CONNECTION AS REQUIRED BY THE AHJ.	NT			SEAL		МЧ
	 12. THE NEW SPRINKLER SYSTEM IS AN NFPA 13-4.1 WET PIPE. 13. ALL FIRE PROTECTION PIPING STARTING FROM POINT OF SERVICE ON INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR. SEE THIS 			6	LINIT C. BO		┍
	DRAWING FOR UNDERGROUND PIPING AND VALVES REQUIRED. 14. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDAN APPLICABLE LOCAL CODES, RULES AND ORDINANCES.	NCE WITH					—
	15. THE VELOCITY OF WATER FOR SPRINKLER PIPING SHALL NOT EXCEED (FEET PER SECOND).	D 21 FPS					1-0
WELDING SHOP 0.15 1500 1.2907	16. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO LINES AND PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE				OF T	19973	0-3
290.4075 0	17. SEE MECHANICAL SHEETS FOR DIFFUSER LOCATIONS. 18. SEE ELECTRICAL LIGHTING SHEETS FOR LOCATION OF LIGHTS.				COPYRIGHT © MBI COMPANIE	S INC. 2020	
250 540.4075			J	5	THE DESIGN PROFESSIONAL D RESPONSIBILITY AND LIABILIT ARISE FROM FAILURE TO FOLL SPECIFICATIONS AND THE DES CONVEY, OR PROBLEMS WHIC	DENIES ANY AND ALL Y FOR PROBLEMS WHICH LOW THESE PLANS, SIGN INTENT THEY	023
0.15 121					FAILURE TO OBTAIN AND/ OR I PROFESSIONAL'S GUIDANCE V ERRORS, OMISSIONS, INCONS OR CONFLICTS WHICH ARE AL PROJECT INFORMATIOI	NITH RESPECT TO ANY SISTENCIES, AMBIGUITIES LEGED.	#2
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				_	KEY PLAN		
RIFICE K MODEL #	FINISH						
1/2" 5.6 V2708 1/2" 5.6 V2703	SEMI-RECESSED WHITE BRASS			0			
1/2" 5.6 V3509-VS1	BRASS			2			
					SHEET INFORMATION		
				-	SHEET ISSUED: DESIGNED BY:	10/06/2023 JEJ	
					DRAWN BY: REVIEWED BY: SHEET TITLE:	JEJ JCB	
						ROTECTION	
				1	SPECIFICAT	LEGENDS,	
						NOTES	

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SCALE: N.T.S.

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PIPING SEISMIC BRACING DETAIL

3. TRANSVERSE BRACING AT 40' - 0" O.C. MAXIMUM UNLESS OTHERWISE NOTED.

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INSTALLATION STANDARDS.

(3) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT APPROXIMATELY 6 FOOT INTERVALS FOR TUBING 1 1/2" AND SMALLER IN DIAMETER AND 10 FOOT INTERVALS FOR TUBING 2" AND LARGER IN DIAMETER.

(4) PIPES OF OTHER APPROVED MATERIALS SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED

(2) SCREWED PIPE - SCREWED PIPE (I.P.S.) OR FLANGED PIPE SHALL BE SUPPORTED AT APPROXIMATELY 10 FOOT INTERVALS.

(1) SUPPORTS - HORIZONTAL PIPING SHALL BE SUPPORTED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP IT IN ALIGNMENT AND PREVENT SAGGING.

B. HORIZONTAL PIPING

(5) VERTICAL RISERS SHALL BE SUPPORTED WITH A RISER CLAMP AT EACH FLOOR. WHERE THERMAL EXPANSION OCCURS, ANCHOR THE RISER AT THE MIDPOINT OR AT THE NEXT FLOOR ABOVE THE MIDPOINT WITH ADDITIONAL SUPPORTS ADJACENT TO THE TOP AND BOTTOM OF THE RISER; INSTALL GUIDES ON THE RISER AT EACH IMMEDIATE FLOOR. RISERS IN HIGH RISE BUILDINGS (SIX STORIES AND ABOVE) SHALL BE DESIGNED INDIVIDUALLY.

(4) PIPES OF OTHER APPROVED MATERIAL SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED INSTALLATION STANDARDS.

(3) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT EACH STORY FOR PIPING 1 1/2" AND LARGER DIAMETER, AT NOT MORE THAN 6 FOOT INTERVALS FOR PIPING 1 1/2" AND SMALLER IN DIAMETER.

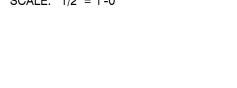
(2) SCREWED PIPE - SCREWED PIPE (I.P.S.) SHALL BE SUPPORTED AT NOT - LESS THAN EVERY OTHER STORY HEIGHT.

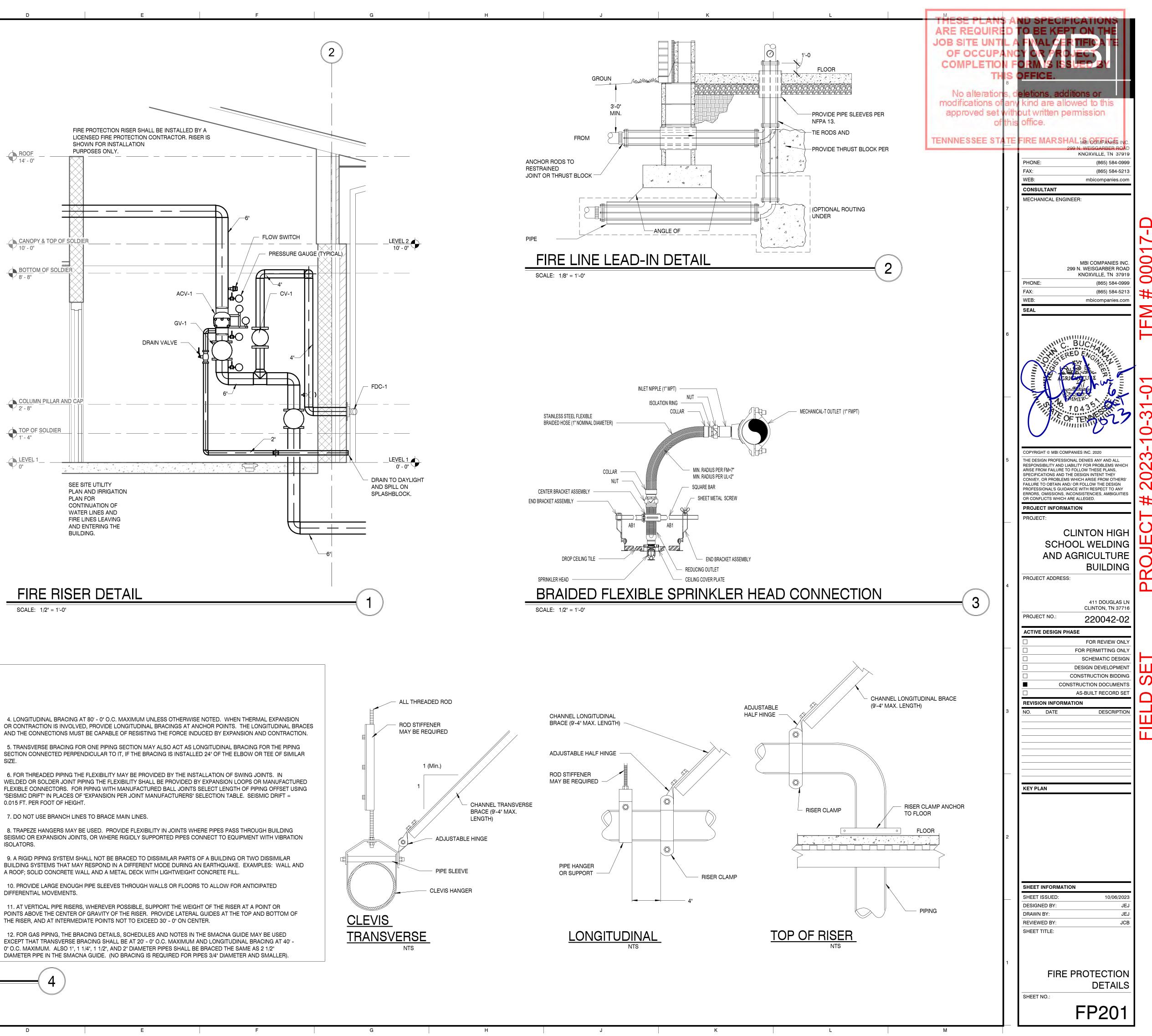
(1) ATTACHMENT - VERTICAL PIPING SHALL BE SECURED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP THE PIPE IN ALIGNMENT AND CARRY THE WEIGHT OF THE PIPE AND CONTENTS. STACKS SHALL BE SUPPORTED AT THEIR BASES AND IF OVER 2 STORIES IN HEIGHT AT EACH FLOOR BY APPROVED METAL FLOOR CLAMPS.

A. VERTICAL PIPING

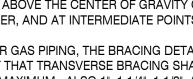
BRACING OF PIPES:

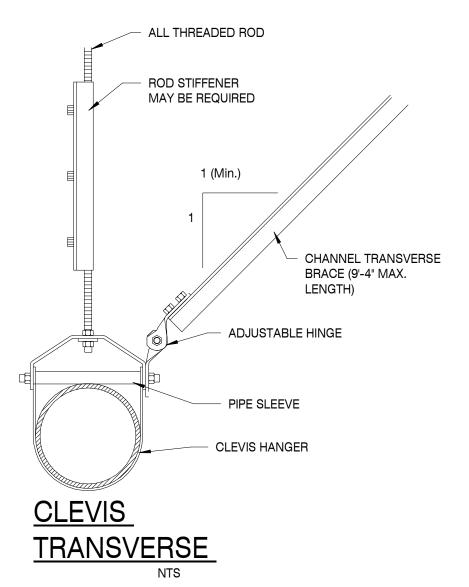
SEISMIC RESTRAINT FOR PIPING

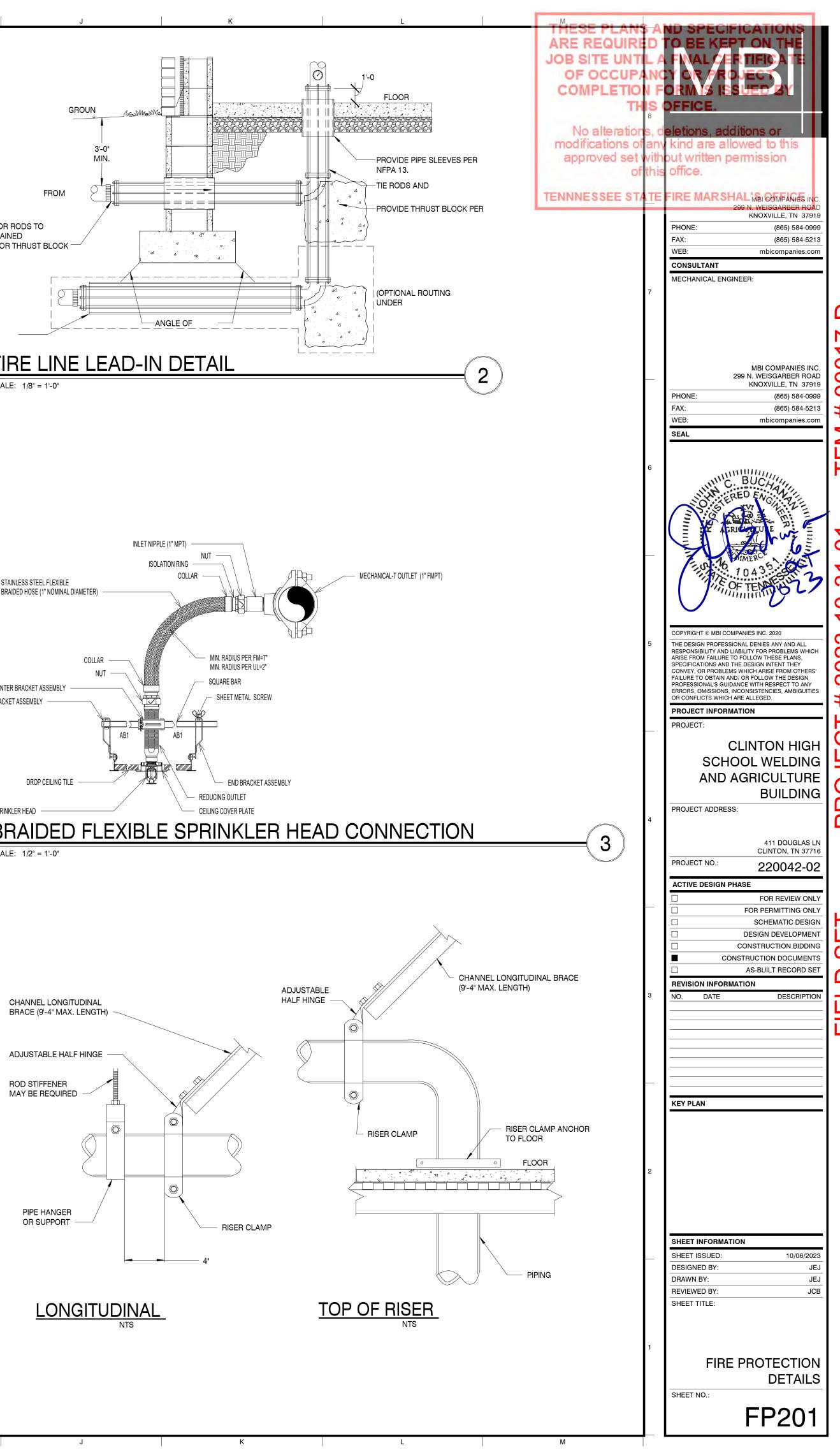


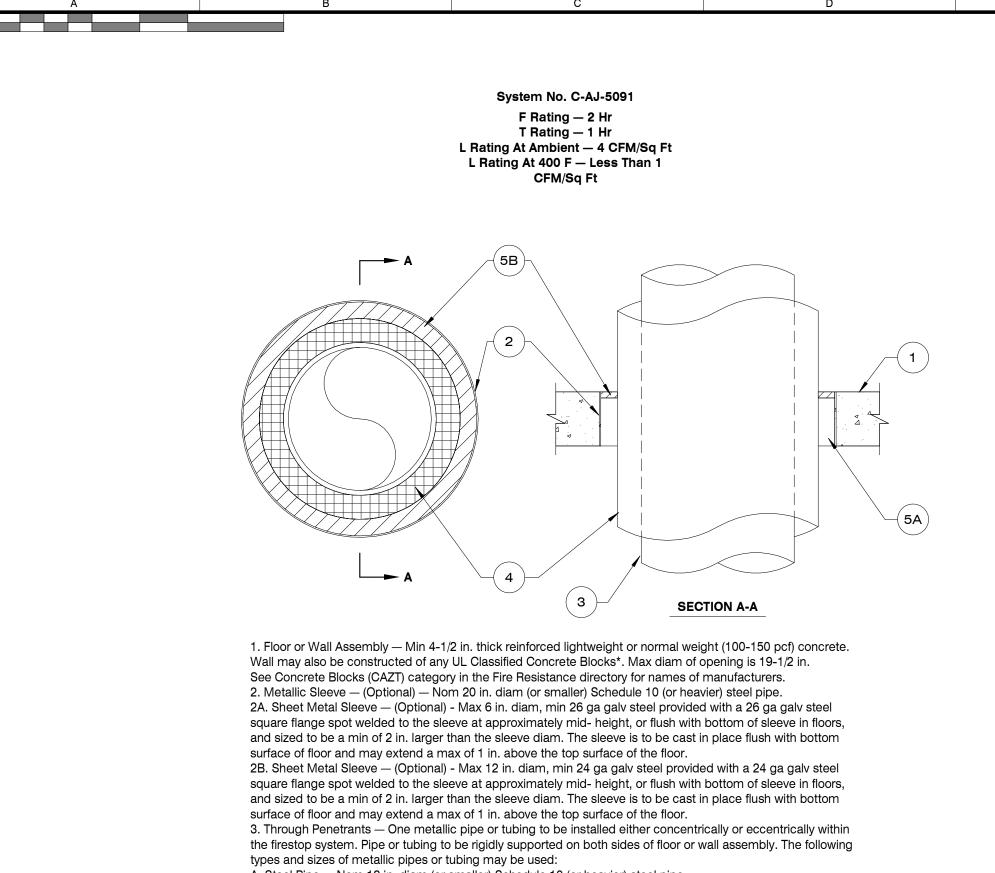


FIRE PROTECTION VALVE SCHEDULE							
ID	DESCRIPTION	PIPE SIZE	MANUFACTURER & MODEL #	REMARKS			
GV-1	GATE VALVE	6"	VICTAULIC SERIES 771F	1, 2			
CV-1	CHECK VALVE	4 "	VICTAULIC SERIES 717	1			
FDC-1	FIRE DEPARTMENT CONNECTION	4 "	CROKER 6440	1			
SSHC-1	SPARE SPRINKLER HEAD CABINET	N/A	VICTAULIC SA1-000-0000	1			
EAB-1	ELECTRIC ALARM BELL	N/A	POTTER MBA-8-24	1			
ACV-1	ALARM CHECK VALVE	6"	VICTAULIC SERIES UMC	1			
NOTES: 1. SEE FIRE PROTECTION SPECIFICATIONS ON SHEET FP0.1 FOR MORE INFORMATION. 2. PROVIDE TAMPER SWITCH AND CONNECT TO FIRE ALARM.							









A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe – Nom 12 in. diam (or smaller) cast or ductile iron pipe.

C. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe. D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

4. Pipe Covering — Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the

product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. to a max 2-1/4 in.

See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. The annular space shall be min 1/2 in. to max 2-1/4 in.

5. Firestop System — The firestop system shall consist of the following: A. Packing Material – Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall

as required to accommodate the required thickness of fill material. B. Fill, Void or Cavity Material* – Sealant – Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

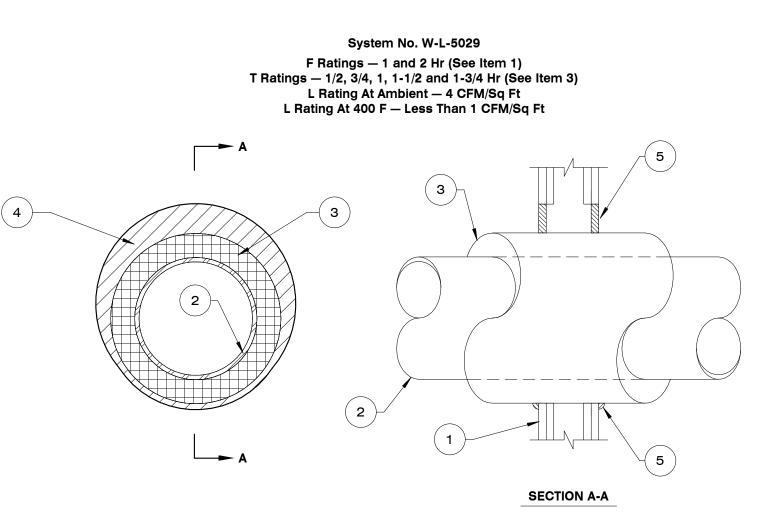
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant *Bearing the UL Classification Mark



SCALE: N.T.S.

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1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. B. Gypsum Board* - 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed

2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used: A. Steel Pipe - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe - Nom 12 in. diam (or smaller) cast or ductile iron pipe.

C. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

D. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which

it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below

Wall Assembly Rating Hr	Through	Through Penetrant		Annula	T Rating Hr	
	Type +	Max Diam In.		Min In.	Max In.	
1	А	4	1	0	1-1/2	1/2
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2
1	А	4	1-1/2	0	1-1/2	1
1	А	12	2	0	1-7/8	3/4
1	B or C	6	2	0	1-7/8	1
2	А	4	1	0	1-1/2	1
2	B or C	4	1 or 1-1/2	0	1-1/2	1
2	B or C	6	2	0	1-7/8	1
2	А	4	1-1/2	0	1-1/2	1-3/4
2	А	12	2	0	1-7/8	1-1/2
2	B or C	6	2	0	1-7/8	1

+Indicates penetrant type as itemized in Item 2.

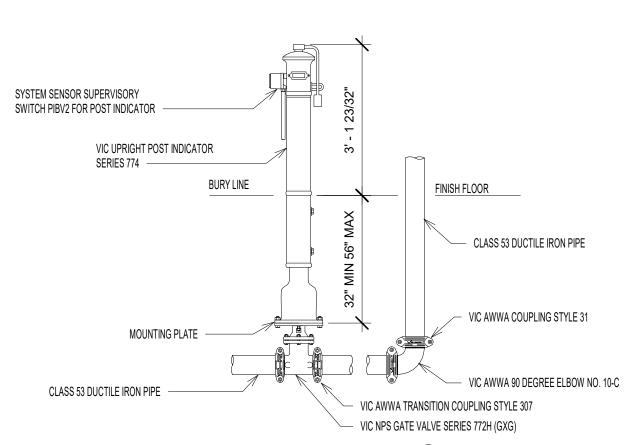
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces

of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant

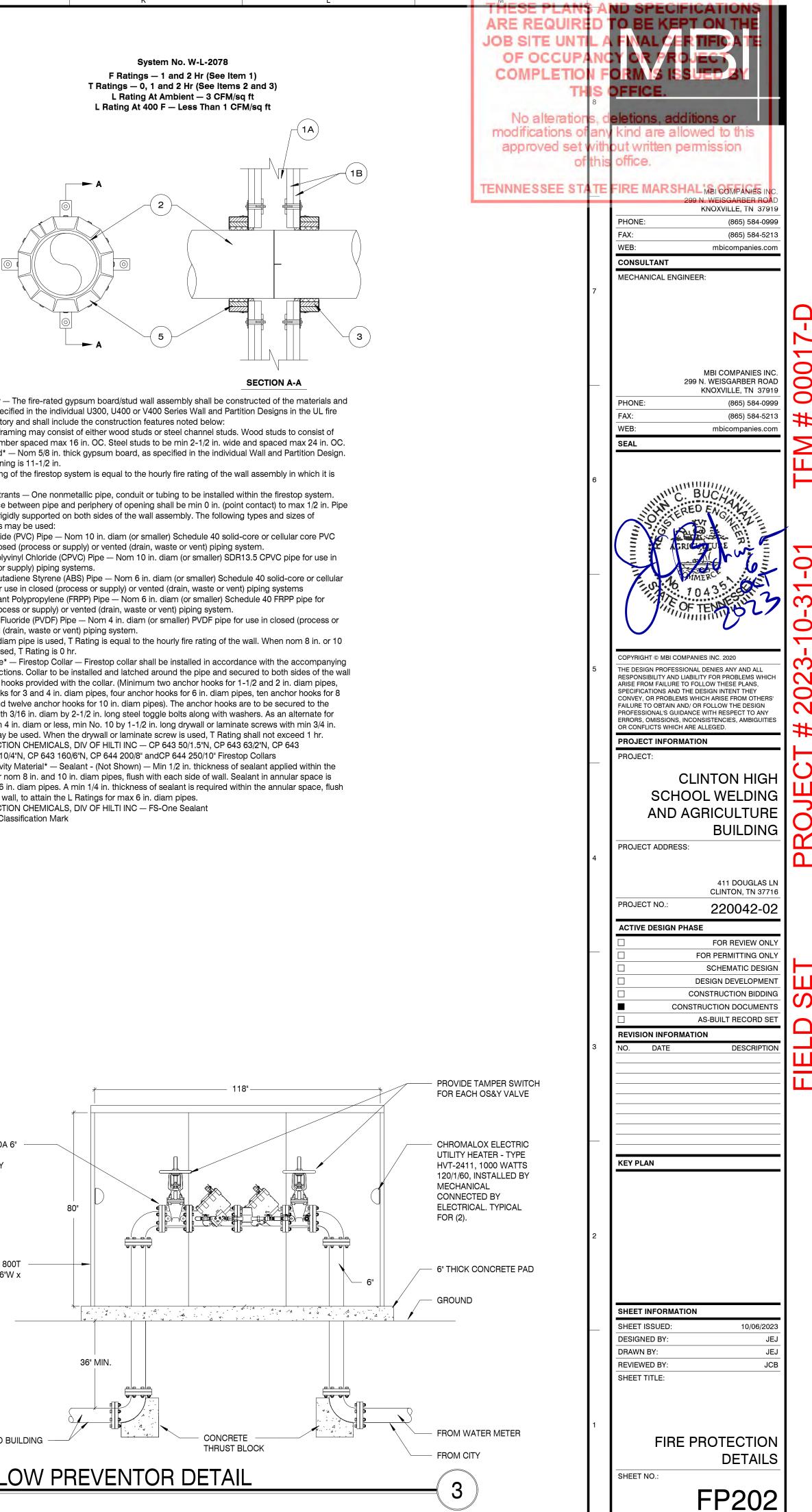
*Bearing the UL Classification Mark



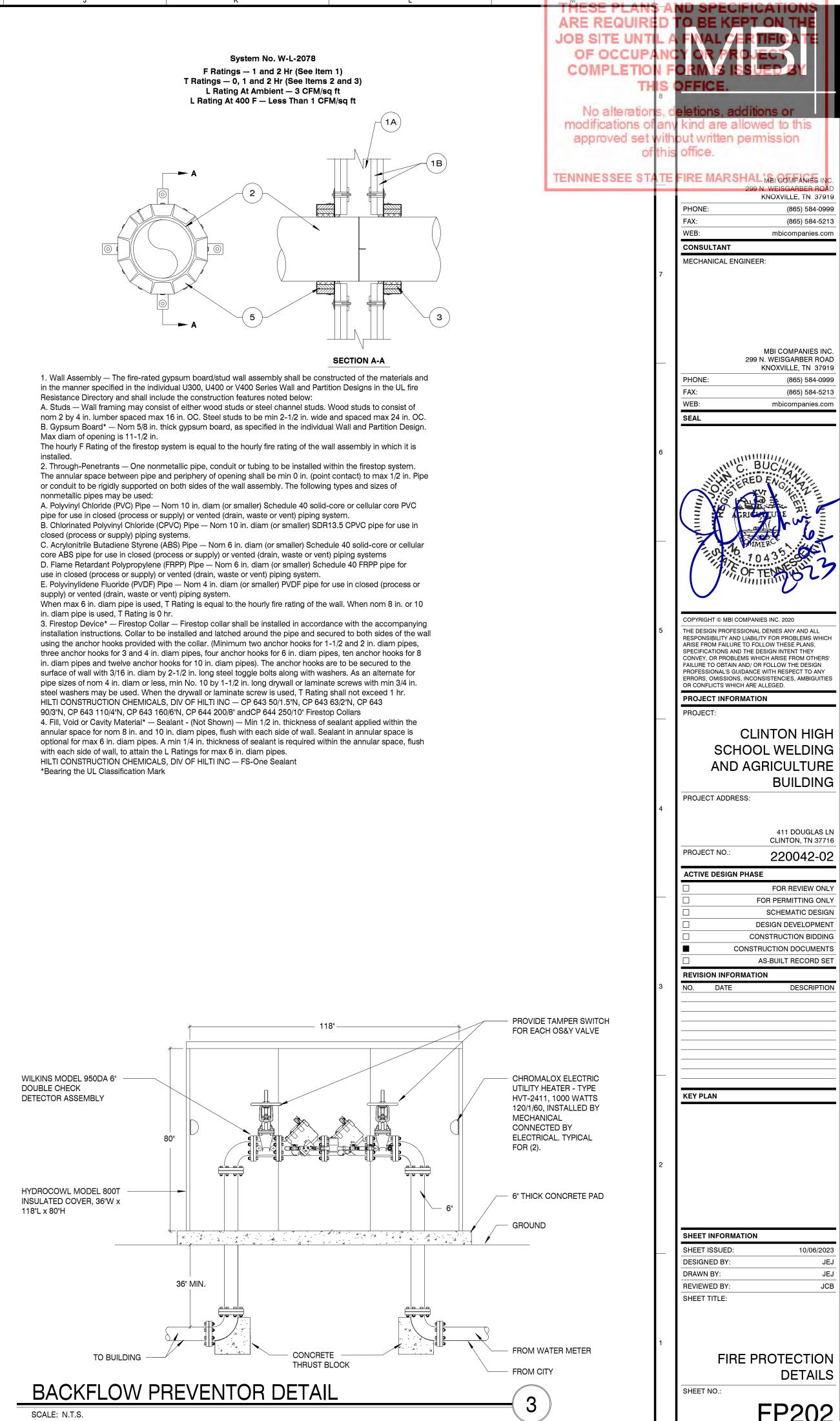


UPRIGHT POST INDICATOR UPRIGHT INDICATOR 774-772H

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



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	DESIGN	IATIO	SERVIC	DESCRIPTIO	MATERIAL/FINI	MANUFACTUR ER	SIZING CFM
	\bowtie		SQUARE, 3- CONE, CEILING SUPPLY	24"x24" FACE T-BAR LAY-IN ADJUSTABLE PATTERN W/	ALUMINUM WHITE ENAMEL	PRICE ASCDA	0-110 6"Ø
		CD2	SQUARE, 3- CONE, CEILING SUPPLY	SURFACE MOUNTED, ADJUSTABLE PATTERN WITH O.B.D.	ALUMINUM WHITE ENAMEL	PRICE ASCDA	- 111-240 8"Ø 241-420
		SWS1	SIDEWA LL SUPPLY	DOUBLE DEFLECTIO	ALUMINU M WHITE	PRICE 620D	
		LSD1	LINEAR SLOT DIFFUSER	()" SLOTS 2-WAY PATTERN	ALUMINU M WHITE	PRICE	
		CR1		1/2"x1/2"x1/2" CORE, PANEL MTD, T- BAR LAY-IN, BORDER TYPE 3, WITH ALUMINUM O.B.D.	ALUMINUM CORE ALUMINUM FRAME WHITE ENAMEL	PRICE 80DAL-F	0-415 10x10 416-815 14x14
		CC1 SQ CO SU CD2 SUS CD2 SUS CC2 SUS CC2 SUS CC2 SUS CC2 CC		1/2"x1/2"x1/2" CORE, PANEL MTD, SURFACE MOUNT, BORDER TPE 1, WITH ALUMINUM O.B.D.	ALUMINUM CORE ALUMNIUM FRAME WHITE ENAMEL		14X14
		TG	EGGCRATE FACE TRANSFER	1/2"x1/2"x1/2" CORE, PANEL MTD, SURFACE MOUNT OR T-BAR LAY-IN AS REQUIRED	ALUMINUM CORE ALUMNIUM FRAME WHITE ENAMEL	PRICE 80	0-350 10x10 351-680 14x14
		SWR1	SIDEWA LL RETURN	O DEG. FIXED HORZONTAL FACE BARS	ALUMINU M WHITE	PRICE 510ZD	
		CE1	EGGCRATE FACE CEILING	1/2"x1/2"x1/2" CORE, PANEL MTD, T- BAR LAY-IN, BORDER TYPE 3 WITH ALUMINUM O.B.D.	ALUMINUM CORE ALUMNIUM FRAME	PRICE 80DAL-TB	0-415 10x10
		CE2	EXHAUST GRILLE	1/2"x1/2"x1/2" CORE, PANEL MTD,SURFACE MOUNT, BODER TYPE 1 WITH ALUMINUM O.B.D.	WHITE ENAMEL	PRICE 80DAL-F	416-815 14x14

NOTES AND ACCESSORIES

SIZING COLUMN GOVERNS DEVICE NECK SIZE ONLY. RUN-OUT DUCT SIZES MAY VARY (SEE FLOOR PLAN DRAWINGS.) PROVIDE DUCT TRANSITIONS INCLUDING SQUARE TO ROUND AS REQUIRED.

ALTERNATE MANUFACTURERS: KRUEGER, METALAIRE, PRICE MECHANICAL CONTRACTOR SHALL PROVIDE DIFFUSERS WITH APPROPRIATE AIR PATTERN AS SHOWN ON PLANS.

PRIOR TO ORDERING DEVICES MECHANICAL CONTRACTOR SHALL PROVIDE TO ARCHITECT A COLOR/FINISH SELECTION CHART FOR EACH DEVICE SCHEDULED. SELECTIONS MAY DIFFER ON A SPACE BY SPACE BASIS PER ARCHITECTS' OPTION. IF COLOR/FINISH IS NOT COORDINATED WITH ARCHITECT PRIOR TO ORDERING MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND PAINTING TO MATCH INTERIOR.

ORDER DIFFUSERS WITH VOLUME DAMPER.

FOR SIDEWALL DIFFUSERS ADJUST VERTICAL BLADES FOR A 45 DEGREE HORIZONTAL SPREAD. FOR SIDEWALL DIFFUSER, GRILLES, AND REGISTERS SIZES ARE SHOWN ON FLOOR PLAN DRAWINGS.

PART 1 - GENERAL

1.01 SCOPE FURNISH ALL LABOR, MATERIALS, EQUIPMENT, CONTROL SYSTEMS, DEVICES, ACCESS PANELS, PERMITS, AND SERVICES NECESSARY TO INSTALL THE COMPLETE AND OPERABLE AIR CONDITIONING, HEATING, AND VENTILATING SYSTEM INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, AND IN ACCORDANCE WITH ALL CITY, STATE, AND NATIONAL CODES, IF THERE IS A CONFLICT BETWEEN CODES AND OR THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO FOLLOW THE MORE STRINGENT OF THE REQUIREMENTS. ALL MATERIALS SHALL BE NEW AND ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, PRODUCT APPROVAL, RULES AND ORDINANCES. ANY DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION. ALL MECHANICAL EQUIPMENT SHALL BE ARI & UL LISTED WHERE APPLICABLE AND RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES AND SHALL BE PROVIDED

1.02 ELECTRICAL WORK

TO FUNCTION PROPERLY.

ALL CONDUIT, ROUGH IN ELECTRICAL BOXES AND WIRING, EXCLUDING LOW VOLTAGE CONTROL WIRING, SHALL BE INCLUDED UNDER THE ELECTRICAL SECTION OF THE CONTRACT DOCUMENTS, COORDINATE REQUIREMENTS AND ROUGH IN LOCATIONS FOR ALL EQUIPMENT. CONTROL WIRING SHALL BE PROVIDED AND INSTALLED UNDER THE MECHANICAL SECTION OF THE CONTRACT DOCUMENTS.

1.03 SUBMITTAL DATA

SELECTION IS TO BE APPROVED BY THE ARCHITECT. 4. MEDIUM PRESSURE DUCTWORK. (DEFINED AS SUPPLY DUCTWORK DOWNSTREAM OF AIR HANDLER AND UPSTREAM OF VAV BOX) PROVIDE PRIOR TO ORDERING EQUIPMENT THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A MINIMUM OF THREE (3) COPIES OF THE EQUIPMENT BROCHURES, GALVANEALED STEEL (ASTM A875) SPIRAL ROUND AND/OR SPIRAL FLAT OVAL TECHNICAL DATA AND/OR SHOP DRAWINGS. AS AN ALTERNATIVE, AN CONSTRUCTED SHEET METAL DUCTWORK AND FITTINGS (SIZED AS ELECTRONIC SUBMITTAL IS ACCEPTABLE. CONTRACTOR IS INSTRUCTED TO INDICATED ON PLANS) AS MANUFACTURED BY EASTERN SHEET METAL OR CONSOLIDATE INFORMATION WHEN SUBMITTING ELECTRONICALLY AND AVOID APPROVED EQUAL. ALL DUCTWORK IS TO BE CONSTRUCTED AND INSTALLED MULTIPLE COMMUNICATIONS. IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.

1.04 NOISE AND VIBRATION

EQUIPMENT SHALL OPERATE QUIETLY. THE OPERATION OF THE EQUIPMENT SHALL CAUSE NO PERCEPTIVE VIBRATION NOR OBJECTIONABLE NOISE IN ANY PORTION OF THE BUILDING OR STRUCTURE.

1.05 MAINTENANCE MANUALS

FURNISH (3) THREE SETS OF OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS COVERING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AS WELL AS EQUIPMENT WARRANTIES, CONTROL SEQUENCES AND DIAGRAMS. MANUALS ARE TO BE BOUND AND COVERED. DELIVER MANUALS TO THE ARCHITECT. INCLUDE A COMPLETE DESCRIPTION OF THE OPERATION OF THE CONTROL SYSTEM. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT.

1.06 WARRANTIES

- 1. ALL WARRANTIES SHALL BEGIN UPON FINAL ACCEPTANCE BY THE OWNER, NOT BENEFICIAL USE BY THE CONTRACTOR. FURNISH A FIVE (5) YEAR WARRANTY ON ALL COMPRESSORS AND
- REFRIGERATION CIRCUIT AND A ONE (1) YEAR WARRANTY ON ALL CONTROLS AND OTHER EQUIPMENT. . THE MC WILL WARRANTY ALL MECHANICAL SYSTEMS, DUCTWORK, THERMOSTATS, AND ALL OTHER EQUIPMENT, PARTS, AND LABOR SHOWN ON THE MECHANICAL DRAWINGS AND IN THE SPECIFICATIONS FOR A PERIOD OF
- ONE (1) YEAR AFTER ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. SEE HVAC GENERAL NOTE 17. . ANY REPAIRS REQUIRING SYSTEM SHUT DOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS.
- 5. THE MC SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BIDDING AND PURCHASING ANY EQUIPMENT. 6. AN INDEPENDENT CONTRACTOR SHALL TEST AND BALANCE ALL MECHANICAL
- EQUIPMENT AIR DEVICES, EXTRACTORS, DAMPERS, AHU'S AND FANS, ETC. TO PROVIDE THE DESIGN QUANTITIES (+/- 5%) AS SHOWN ON THE PLANS OR SCHEDULES. PROVIDE T & B REPORT IN ACCORDANCE WITH THE AIR BALANCE2.02 DAMPERS. OF OWNER AND ENGINEER. T & B CONTRACTOR SHALL VISIT THE JOB SITE LOCATE AS TO BE ACCESSIBLE. DURING CONSTRUCTION TO ENSURE THAT ALL DUCTS, DAMPERS, AND OTHER AIR CONTROL DEVICES ARE INSTALLED FOR PROPER AND QUIET AIR DELIVERY. 2.03 GRILLES, REGISTERS, AND DIFFUSERS PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR EQUIPMENT ANCHORAGE TO BUILDING STRUCTURE.

1.07 PERMITS, ORDINANCES, AND INSPECTIONS

TO THE ARCHITECT, ALL CERTIFICATES AND INSPECTION REPORTS. 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CITY, MADE TO MEET OR EXCEED REQUIREMENTS. THE CONTRACTOR SHALL MAKE ANY MINOR ADJUSTMENTS TO MEET THESE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER.

PART 2 - PRODUCTS

D

2.01 DUCTWORK

. GENERAL

A. SEE HVAC GENERAL NOTES FOR ADDITIONAL REQUIREMENTS. B. DIMENSIONS INDICATED ON THE DRAWINGS ARE INSIDE AREAS. WHERE FANS SHALL BE AS INDICATED ON DRAWINGS. DUCTS ARE TO BE INTERNALLY INSULATED OR LINED INCREASE SHEET METAL OVERALL DIMENSIONS TO ACCOMMODATE INSULATION THICKNESS. C. PROVIDE FLEXIBLE WOVEN DUCT CONNECTIONS IN DUCTS AS INDICATED. SECURE CONNECTIONS WITH GALVANIZED CHANNELS. PROVIDE A BRAIDED

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HVAC SPECIFICATIONS 3. LOW PRESSURE DUCTWORK A. CONCEALED SYSTEMS. (DEFINED AS ANY DUCTWORK NOT VISIBLE TO OCCUPANTS OF A SPACE) PROVIDE MINIMUM 26 GAUGE RECTANGULAR

WITH ALL NECESSARY TRANSFORMERS, SEALS, VALVES, CONNECTIONS, ETC.

E

AND/OR ROUND GALVANIZED STEEL SHEET METAL DUCTWORK CONSTRUCTED AND INSTALLED IN THE VENTILATION SYSTEMS IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SEE HVAC GENERAL NOTES FOR ADDITIONAL REQUIREMENTS. B. EXPOSED SYSTEMS. (DEFINED AS ANY DUCTWORK VISIBLE TO OCCUPANTS OF A SPACE) FOR ALL DUCTWORK SYSTEMS PROVIDE GALVANEALED STEEL (ASTM A875) SPIRAL ROUND AND/OR SPIRAL FLAT OVAL CONSTRUCTED SHEET METAL DUCTWORK AND FITTINGS (SIZED AS INDICATED ON PLANS) AS MANUFACTURED BY EASTERN SHEET METAL OR APPROVED EQUAL. ALL DUCTWORK IS TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. I. PROVIDE 2" WG LEAKAGE CLASS FOR ALL SYSTEMS II. FOR SUPPLY AND OUTSIDE AIR INTAKE DUCTWORK PROVIDE DUAL

WALL CONSTRUCTION WITH 2" FIBERGLASS INSULATION (MIN. K= 0.27). INNER WALL SHALL BE SOLID, PERFORATED INNER WALLS ARE NOT ACCEPTABLE. III. FOR RETURN AND EXHAUST DUCTWORK PROVIDE SINGLE WALL

CONSTRUCTION. IV. ALL DUCTWORK IS TO BE CLEANED OF GREASE, OIL, AND DIRT THEN PRIMED PRIOR TO APPLICATION OF A TOP COAT. CLEANING AND PRIMING ARE TO BE PERFORMED BY PAINTING CONTRACTOR PER

THE PAINT MANUFACTURER'S RECOMMENDATION. PAINT COLOR

A. CONCEALED SYSTEMS. (DEFINED AS ANY DUCTWORK NOT VISIBLE TO OCCUPANTS OF A SPACE) FOR ALL DUCTWORK SYSTEMS PROVIDE GALVANIZED (ASTM A653) OR GALVANEALED (ASTM A875) STEEL SPIRAL ROUND AND/OR SPIRAL FLAT OVAL CONSTRUCTED SHEET METAL DUCTWORK AND FITTINGS (SIZED AS INDICATED ON PLANS) AS MANUFACTURED BY EASTERN SHEET METAL OR APPROVED EQUAL. ALL DUCTWORK IS TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.

I. PROVIDE 4" WG LEAKAGE CLASS FOR ALL SYSTEMS II. PROVIDE DUAL WALL CONSTRUCTION WITH 2" FIBERGLASS INSULATION (MIN. K=0.27). INNER WALL SHALL BE SOLID,

PERFORATED INNER WALLS ARE NOT ACCEPTABLE. III. CONNECTIONS BETWEEN ALL DUCT SECTIONS AND FITTINGS TO BE GASKET SEALED.

B. EXPOSED SYSTEMS. (DEFINED AS ANY DUCTWORK VISIBLE TO OCCUPANTS OF A SPACE) FOR ALL DUCTWORK SYSTEMS PROVIDE GALVANEALED STEEL (ASTM A875) SPIRAL ROUND AND/OR SPIRAL FLAT OVAL CONSTRUCTED SHEET METAL DUCTWORK AND FITTINGS (SIZED AS INDICATED ON PLANS) AS MANUFACTURED BY EASTERN SHEET METAL OR APPROVED EQUAL. ALL DUCTWORK IS TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. I. PROVIDE 4" WG LEAKAGE CLASS FOR ALL SYSTEMS

- II. PROVIDE DUAL WALL CONSTRUCTION WITH 2" FIBERGLASS INSULATION (MIN. K=0.27). INNER WALL SHALL BE SOLID,
- PERFORATED INNER WALLS ARE NOT ACCEPTABLE. III. ALL DUCTWORK IS TO BE CLEANED OF GREASE, OIL, AND DIRT THEN PRIMED PRIOR TO APPLICATION OF A TOP COAT. CLEANING AND PRIMING ARE TO BE PERFORMED BY PAINTING CONTRACTOR PER THE PAINT MANUFACTURER'S RECOMMENDATION. PAINT COLOR SELECTION IS TO BE APPROVED BY THE ARCHITECT.
- IV. CONNECTIONS BETWEEN ALL DUCT SECTIONS AND FITTINGS TO BE GASKET SEALED.

COUNCIL (ABC) STANDARDS, SIGNED AND SEALED BY A REGISTERED PROVIDE APPROVED MANUAL BALANCE DAMPERS WHERE SHOWN ON THE ENGINEER. PROVIDE FINAL BALANCING FOR ALL SYSTEMS TO SATISFACTION PLANS FOR THE PROPER REGULATION OF THE AIR HANDLING SYSTEM AND SO

1. FURNISH AND INSTALL WHERE INDICATED RETURN AND SUPPLY GRILLES, COMPLETE WITH BAKED ENAMEL FINISH AND OPPOSED BLADE DAMPERS. 2. ALL DUCTWORK AND DIFFUSERS SHALL BE RATED FOR THE USE. PRESSURE . OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED. DELIVER AND TEMPERATURE SPECIFIED AND AS REQUIRED BY THE CEILING OR WALL SYSTEM RATING. IF THE CEILING ASSEMBLY IS RATED PROVIDE RADIATION DAMPERS AT THE PENETRATION WHEN THE AREA OF ALL PENETRATIONS, COUNTY, STATE, OR NATIONAL ORDINANCES AND CODES. EFFORT HAS BEEN INCLUDING DUCT AND DIFFUSERS, IN THE MEMBRANE EXCEED AN AGGREGATE AREA OF 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF CEILING AREA.

3. DUCT INSULATION: INSULATE ALL SUPPLY, RETURN AND OUTDOOR AIR DUCTWORK WITH A MINIMUM OF 2" THICK 3/4# DENSITY DUCTWRAP INSULATION. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50. ALL EXTERIOR DUCTWORK SHALL BE WEATHER-PROOFED WITH A COVERING OF "ALUMIGUARD" WRAP.

2.04 EXHAUST FANS

2.05 CONTROLS

CONTROLS SHALL BE ELECTRIC/ELECTRONIC TYPE, PROVIDE ALL WIRING, ACTUATORS, AND CONTROL DEVICES. FURNISH ALL THERMOSTATS AND SENSORS WITH INSULATED SUB-BASE.

1. CONSTANT VOLUME SYSTEMS

- A. MOUNT THERMOSTATS AS INDICATED ON DRAWINGS. B. INSTALL TEMPERATURE AND HUMIDITY SENSORS IN MAIN RETURN TRUNK DUCT CLOSEST TO UNIT, IF SHOWN ON DRAWINGS.
- 2. VARIABLE AIR VOLUME (VAV) SYSTEMS
- A. MOUNT THERMOSTATS AS INDICATED ON DRAWINGS. B. THERMOSTAT SHALL COMMUNICATE WITH WEB-BASED CONTROLLER.
- C. CONTROL PANELS TO BE LOCATED AS REQUIRED. FOR CONTROLS SYSTEM TO OPERATE, IT SHALL BE ENERGIZED BY 120/10, COORDINATED WITH ELECTRICAL CONTRACTOR AT NO COST TO PROJECT.

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2.06 PROTECTIVE DEVICES

F

HVAC GENERAL NOTES

I. REFERENCE HVAC SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 2. ALL WARRANTIES SHALL BEGIN UPON FINAL ACCEPTANCE BY THE OWNER, NOT BENEFICIAL USE BY THE CONTRACTOR.

3. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND DUCTWORK. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS MINOR OFFSETS AND ADJUSTMENTS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

4. COORDINATE CEILING DIFFUSERS AND REGISTER LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING. COORDINATE SIDE WALL GRILLES AND REGISTERS WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.

5. DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE NET AIR SIDE DIMENSIONS.

6. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. SEAL ALL DUCTS, JOINTS, AND SEAMS IN DUCTWORK TO INSURE AGAINST LEAKAGE. MITERED ELBOWS SHALL BE PROVIDED WITH SINGLE THICKNESS TURNING VANES. SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED STEEL WITH INSULATION AS NOTED. EXHAUST DUCTWORK SHALL BE GALVANIZED STEEL.

7. INSULATE SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK WITH A MINIMUM OF 2" THICK 3/4 PCF BLANKET INSULATION WITH FOIL VAPOR BARRIER. SEAL ALL JOINTS AND SEAMS IN THE VAPOR BARRIER. FOR ACCOUSTICAL REASONS, IN ADDITION TO EXTERIOR INSULATION, ALL RETURN AIR DUCTS WITHIN 15' OF AIR HANDLER ARE TO BE INTERNALLY LINED WITH 1" LAYER OF 3/4 LB DENSITY LINER.

8. <u>DUCT SEALING</u>: PRESSURE SENSITIVE TAPE USED AS THE PRIMARY SEALANT IS TO BE CERTIFIED AND SHALL COMPLY WITH UL-181A OR UL-181B. PROVIDE LONGITUDINAL SEAMS ON RIGID DUCT AND TRANSVERSE SEAMS ON ALL DUCTS. MECHANICAL FASTENERS AND SEALANTS SHALL BE USED TO CONNECT DUCTS AND AIR DISTRIBUTION DEVICES.

9. RECTANGULAR SUPPLY AND RETURN BRANCH TAKE-OFFS SHALL BE 45° THROAT TAKE-OFFS WITH BALANCING DAMPERS IN THE BRANCH DOWNSTREAM OF THE TAKE-OFF. ROUND SUPPLY AND RETURN TAKE-OFFS SHALL BE BELL-MOUTH OR SPIN-IN FITTINGS WITH DAMPERS IN THE BRANCH DOWNSTREAM. PROVIDE BACKDRAFT DAMPERS ON ALL EXHAUST FANS AND/OR INLINE FANS.

10. ALL LOUVERS, ALL GRILLES, EXPOSED PIPING, EXPOSED EQUIPMENT, AND EXPOSED DUCTWORK SHALL BE PAINTED TO MATCH ADJACENT SURFACE COLOR AND TEXTURE OR AS DIRECTED BY THE ARCHITECT. VERIFY COLOR AND TEXTURE WITH THE ARCHITECT PRIOR TO PAINTING. PAINT ALL EXPOSED MECHANICAL EQUIPMENT WITH BENJAMIN MOORE EPOXY ENAMEL 182 OR AS DIRECTED BY THE ARCHITECT.

11. THERMOSTATS AND SENSORS SHALL BE LOCATED 48" A.F.F. UNLESS OTHERWISE NOTED. ALL CONDUIT, ROUGH IN ELECTRICAL BOXES AND WIRING, EXCLUDING LOW VOLTAGE CONTROL WIRING, SHALL BE INCLUDED UNDER THE ELECTRICAL SECTION OF THE CONTRACT DOCUMENTS, COORDINATE REQUIREMENTS AND ROUGH IN LOCATIONS FOR ALL CONTROL DEVICES, ELECTRICAL CONNECTIONS TO EQUIPMENT, AND SWITCH LOCATION. CONTROL WIRING SHALL BE PROVIDED AND INSTALLED UNDER THE MECHANICAL SECTION OF THE CONTRACT DOCUMENTS.

12. PROVIDE A 12/12 (MINIMUM) ACCESS DOOR FOR ACCESS TO ALL DAMPERS, CONTROL DAMPERS, EXTRACTORS, PLENUMS, OR ANY OTHER DEVICE MOUNTED IN THE DUCT SYSTEM.

13. INSTALL ALL EQUIPMENT ACCORDING TO THE MANUFACTURERS' INSTRUCTIONS.

14. REFRIGERANT PIPING SHALL BE PRE-CHARGED TUBING PACKAGES OR TYPE ACR COPPER TUBING IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.

5. PROVIDE A MINIMUM OF 10' CLEARANCE BETWEEN FRESH AIR INTAKES AND EXHAUST OUTLETS, RELIEF OUTLETS, PLUMBING VENTS, ETC.

16. PROVIDE CONDENSATE DRAINS WITH A VENTED P-TRAP FOR ALL COOLING COILS. P-TRAPS TO BE PVC ON INTERIOR INSTALLED EQUIPMENT AND TYPE M COPPER ON EXTERIOR INSTALLED EQUIPMENT.

17. THE OUTSIDE AIR QUANTITIES ARE CALCULATED ACCORDING TO TABLE 6-1 "MINIMUM VENTILATION RATES IN BREATHING ZONE" OF ASHRAE STANDARD 62.1. CHAPTER 6 "DESIGN FOR VARYING OPERATING CONDITIONS" HAS BEEN UTILIZED AS ALLOWED TO REDUCE AIRFLOW RATES FOR INTERMITTENT USE.

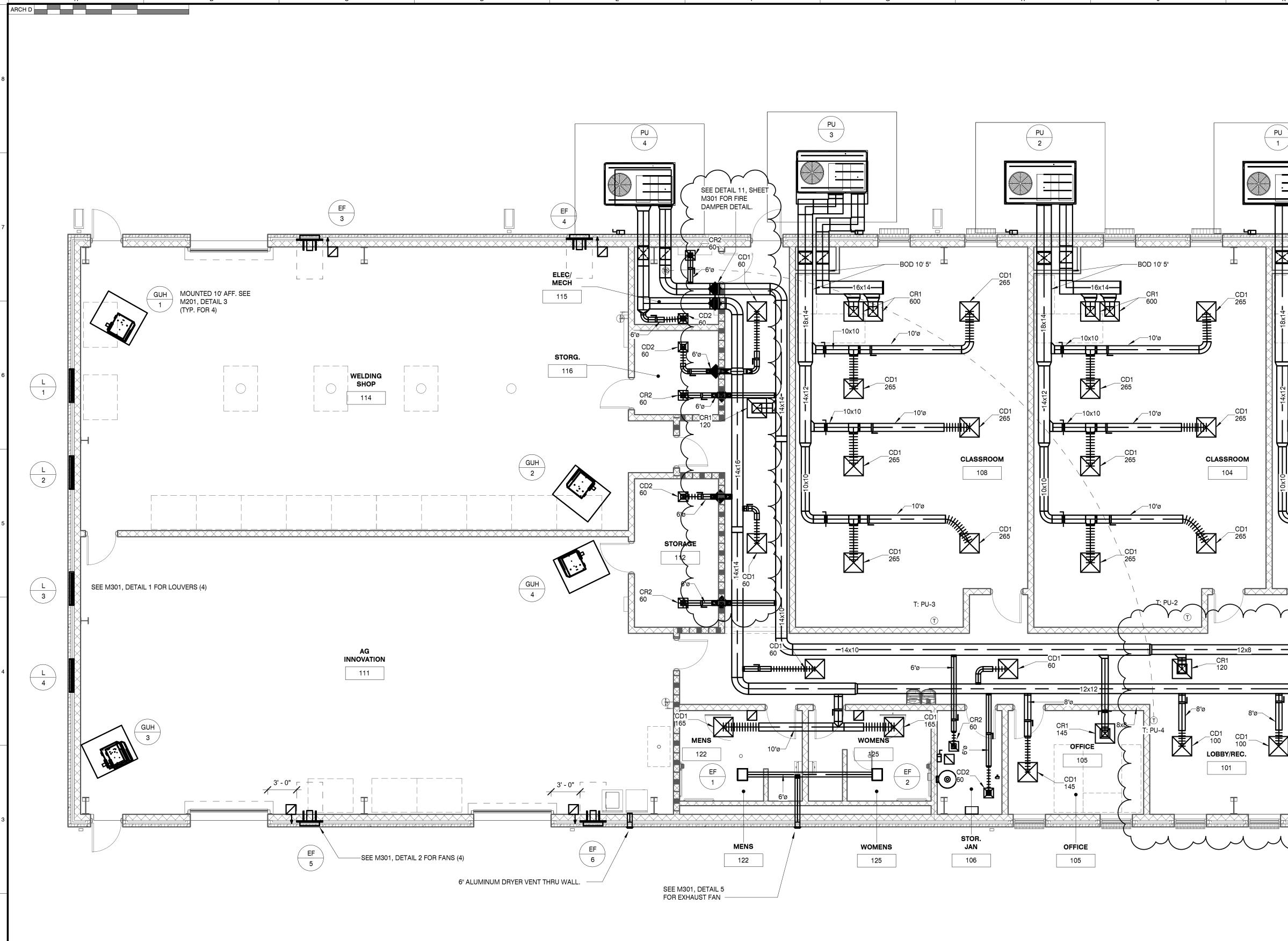
18. AFTER THE CONSTRUCTION OF THE BUILDING HAS REACHED A POINT WHERE THE PERMANENT HEATING AND COOLING SYSTEMS ARE OPERABLE, THE CONTRACTOR MAY, AT HIS OPTION, USE THE PERMANENT HEATING AND COOLING EQUIPMENT FOR TEMPORARY ENVIRONMENTAL CONTROL. THE CONTRACTOR MUST SUBMIT A REQUEST FOR USE TO THE ARCHITECT OUTLINING THE INTENDED USE. THE HEATING SYSTEM SHALL NOT BE USED FOR TEMPORARY HEAT UNTIL THE BUILDING IS BROOM CLEAN AND SHALL NOT BE USED WITHOUT ALL FILTERS IN PLACE. FILTERS MUST BE CHECKED WEEKLY AND REPLACED AS REQUIRED TO PROTECT THE EQUIPMENT AND DUCT SYSTEMS. UPON THE COMPLETION OF THE WORK, AND PRIOR TO SUBSTANTIAL COMPLETION. ALL DUCTWORK AND EQUIPMENT SHALL BE INTERNALLY CLEANED AND ALL FILTERS SHALL BE REPLACED WITH NEW FILTERS.

19. ALL OF THE COSTS ASSOCIATED WITH PROVIDING TEMPORARY HEATING AND COOLING SHALL BE BORNE SOLELY BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED POWER CONSUMPTION, ADDITIONAL ACCESS DOORS FOR CLEANING, FILTERS, DUCT AND EQUIPMENT CLEANING, ENGINEER'S TIME, TEST AND BALANCE AGENT TIME TO SUPPORT THE ENGINEER'S INSPECTION, ETC.

20. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL EQUIPMENT WITH THE ELECTRICAL SERVICE AND THE EC. THE SCOPE OF THIS COORDINATION INCLUDES BUT IS NOT LIMITED TO, REQUIRED VOLTAGE, PHASE, AMP CAPACITY, WIRE SIZE, CONDUIT SIZE AND LOCATION, DISCONNECT SIZE AND LOCATION, FUSE SIZE, ETC. IN THE EVENT OF A CONFLICT, THE MC IS TO NOTIFY THE ENGINEER PRIOR TO MECHANICAL AND ELECTRICAL EQUIPMENT BEING ORDERED.

21. ALL CUTTING, PATCHING, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, AND WALL OPENINGS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK SHALL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER. COORDINATE WITH OTHER TRADES.

	K L			THESE PLANS	A	ND SPECIFICATIONS	
	HVAC SYMBOLS AND) ARR	REVIATIO	ARE REQUIRE	D	TO BE KEPT ON THE	
12"	ROUND DUCTWORK. DIAMETER INDICATED	AC		NG) OF OCCUP	NC	YOR PROJECT	
20x1	IN INCHES RECTANGULAR SUPPLY AND RETURN DUCTWORK. SIZE INDICATED IN INCHES, FIRST NUMBER IS SIDE SHOWN	ACCU AFF AHU BALV	AIR COOLED CONDE ABOVE FINISHED FL AIR HANDLING UNIT BALANCING VALVE		N F	ORMIS ISSUED BY OFFICE.	
	FLEXIBLE	BF BHP BOD BTU	BUTTERFLY VALVE BRAKE HORSEPOWE BOTTOM OF DUCT BRITISH THERMAL U	modifications of	any	eletions, additions or kind are allowed to this out written permission	
	SUPPLY OR OUTSIDE AIR	BTUH BV	BTU/HOUR BALL VALVE	o		office.	
	SUPPLY OR OUTSIDE AIR DUCT	CAD CCC CD	COMPUTER AIDED D CLOSED CIRCUIT CC CEILING DIFFUSER	PRAFTING PUERINNESSEE ST	TE	FIRE MARSHAL MBI COMPANIES INC.	
	RETURN AIR DUCT	CFM CH	CUBIC FEET PER MIN	NUTE		299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 PHONE: (865) 584-0999	
	RETURN AIR DUCT	COP CP	COEFFICIENT OF PER CONTROL PANEL			FAX: (865) 584-5213 WEB: mbicompanies.com	
	EXISTING DUCTWORK TO REMAIN	CR CS CT	CIRCUIT SETTER COOLING TOWER	CONDENSATE RETURN		CONSULTANT	I
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	EXISTING DUCTWORK TO BE REMOVED	CU CWR	CONDENSING UNIT		7		
	90 DEGREE DUCTWORK	CWS DB DG	CHILLED WATER SUI DRY BULB (TEMPER/ DOOR GRILLE				
	RADIUS DUCTWORK ELBOW - ROUND OR RECTANGULAR	DMS EA	DUCTLESS MINI-SPL EXHAUST AIR	IT SYSTEM			
	FLARED SPIN-IN WITH DAMPER AND FLEX DUCT (DIFFUSER CONNECTION)	EAT EC EER	ENTERING AIR TEMP ELECTRICAL CONTR ENERGY EFFICIENCY	ACTOR			001
Ţ, ĮĮ	ROUND AND RECTANGULAR DUCT BRANCH TAKE-OFF FROM RECTANGULAR MAIN WITH	EF	EXHAUST FAN ELEVATION	nating	_		
	DUCTWORK SIZE	ERV EVAP	ENERGY RECOVERY EVAPORATION OR EVAPORATION OR EVAPORATION OR EVAPORATION OR EVAPORATION OF EVAPORATION	VAPORATIVE)#
	DUCTWORK SQUARE TO ROUND	EWT FC FD	ENTERING WATER TI FAN COIL FLOOR DRAIN	EMPERATORE		SEAL	Σ
•	POINT OF CONNECTION TO EXISTING	FP FPC	FIRE PROTECTION FIRE PROTECTION C	ONTRACTOR			Ιü
T EQUIP-	THERMOST	FPM FS FZ	FEET PER MINUTE FLOOR SINK FREEZE		6	C. BUCH	
S EQUIP-	SENSO	GC GV	GENERAL CONTRAC GATE VALVE	TOR		SERED ENGLAST	
\$ EQUIP-	SWITC	HD HEPA HP	HUB DRAIN HIGH EFFICIENCY PA HEAT PUMP OR HOR	RTICULATE ARRESTANCE		GRICERULE	
M	MOTOR OPERATED	HVAC HWR	HEATING, VENTILATI HEATING WATER RE	NG, AND AC TURN			
S	SMOKE DETECTOR - FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR	HWS MBH KW	HEATING WATER SU 1,000 BTU/HOUR KILOWATT	PPLY		10435 CF TENNENT 3	5
•	FIRE	LAT LEED	LEAVING AIR TEMPE LEADERSHIP IN ENE	RGY EFFICIENT DESIGN			Ċ
•	SECURITY	· LWT M MAT	LEAVING WATER TEN MOTOR MIXED AIR TEMPERA			COPYRIGHT © MBI COMPANIES INC. 2020	
\bigcirc	PROVIDE AND INSTALL A U.L. LISTED FIRE RATED CEILING DAMPER IN ACCORDANCE WITH FIRE RATING. DAMPER SHALL BE RUSKIN CFD TYPE OR APPROVED SUBSTITUTE	MAU MC MCA MOCP	MAKE UP AIR UNIT MECHANICAL CONT MINIMUM CIRCUIT A	RACTOR	5	THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS'	023
CD- 10 AIRFLO	DIFFUSER/GRILLE	MOD MVD OA	(AMPERES) MOTOR OPERATED I MANUAL VOLUME D OUTSIDE AIR	DAMPER		FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION	С #
W (CFM)	VOLUME CONTROL	OFCI PA PC	PRESSURIZATION AII	, CONTRACTOR INSTALLED R CTOR OR PERSONAL	_	PROJECT:	
	CHILLED WATER SUPPLY	PL	COMPUTER PRIMARY LOOP			CLINTON HIGH SCHOOL WELDING	
	CHILLED WATER RETURN HOT WATER SUPPLY	PTAC PT PU	PACKAGED TERMINA PRESSURE TRANSM PACKAGED UNIT			AND AGRICULTURE	
군──HW 군──E(NAME)२	HOT WATER RETURN EXISTING PIPING TO	PWR PWS	PROCESS WATER RE PROCESS WATER SU	JPPLY		BUILDING PROJECT ADDRESS:	
(NAME ∠ X−E) −X −2	EXISTING TO BE	RA RF RH	RETURN OR RELIEF / RETURN OR RELIEF / REHEAT OR RELATIV	FAN	4		۵
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	REFRIG. HOT GAS REFRIG. LIQUID	RPM RTU	REVOLUTIONS PER N ROOFTOP UNIT			411 DOUGLAS LN CLINTON, TN 37716 PROJECT NO.: 000040.00	
	REFRIG SUCTION STRAINE	SA SEER SF	SUPPLY AIR SEASONAL ENERGY SUPPLY FAN	EFFICIENCY RATTING		ACTIVE DESIGN PHASE	
	GAS	SL SS	SECONDARY LOOP STAINLESS STEEL			FOR REVIEW ONLY FOR PERMITTING ONLY	
	BALANCING	ST SWS SWR	STEAM SIDE WALL SUPPLY SIDE WALL RETURN			SCHEMATIC DESIGN DESIGN DEVELOPMENT	11.
	PLUG GATE	TDV TG	TRIPLE DUTY VALVE TRANSFER GRILLE			CONSTRUCTION BIDDING	
	BUTTERFLY	TOD TT UV	TOP OF DUCT TEMPERATURE TRAN ULTRAVIOLET LIGHT			AS-BUILT RECORD SET	
	BALL	VAV VEL	VARIABLE AIR VOLUI VELOCITY	ME	3	NO. DATE DESCRIPTION	1
	CHECK	VFD VVT	VARIABLE FREQUEN VARIABLE (VOLUME) (TEMPERATURE)				
	TRIPLE DUTY						
	PRESSURE RELIEF						
	PIPE TURNING PIPE TURNING					KEY PLAN	
	THERMOMET						
	GAUG						
	PIPE SLEEVE OR				2		
<u>کx</u>	PIPE						
G	GAUGE					SHEET INFORMATION	
		1			1	SHEET ISSUED: 10/06/2023 DESIGNED BY: DRJ DRAWN BY: DRJ REVIEWED BY: JCB SHEET TITLE: HVAC LEGENDS,	
						SPECIFICATIONS, AND NOTES SHEET NO.:	
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SCALE: 3/16" = 1'-0"

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FIRST FLOOR PLAN - HVAC

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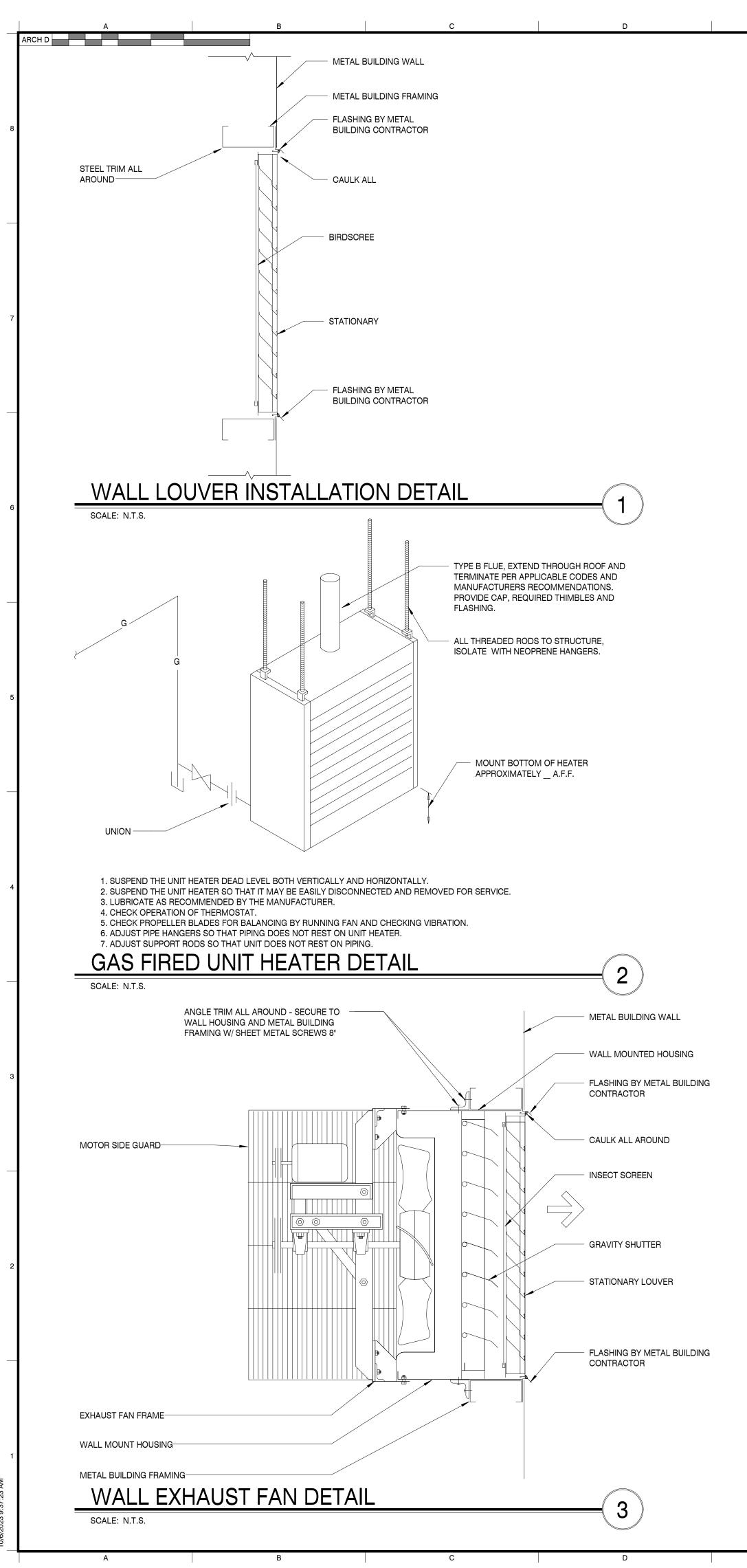
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J SPECIFICATIONS I LESE L ARE REQL JOB SITE U OF OCC GENERAL NOTESOMPLET COORDINATE EXACT CEILING GRILLE LOCATION WITH REFLECTED CEILING PLAN AND LIGHTING PLAN. No alterat UNLESS SPECIFICALLY NOTED OTHERWISE, ROUTE Auctions of DUCTWORK IN CEILING SPACE. kind are allowed to this hout written permission approved set s office. PU 1 TENNNESSEE ST/ FIRE MARSHAL'MBI COMPANIES IN 299 N. WEISGARBER ROAI KNOXVILLE, TN 37919 PHONE: (865) 584-0999 (865) 584-5213 -FOR EXPOSED DUCT SEE M301, WEB: mbicompanies.cor DETAIL 6 CONSULTANT XZ -BOD 10' 5" $\overline{}$ 000 CD1 265 SEAL _____ CD1 265 CLASSROOM 102 COPYRIGHT © MBI COMPANIES INC. 2020 THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' 漤 __CD1 265 FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE VORKROOM _CD1 180 103 BUILDING PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716 PROJECT NO .: 220042-02 ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN CONSTRUCTION BIDDING VESTIBULE CONSTRUCTION DOCUMENT 100 AS-BUILT RECORD SE **REVISION INFORMATION** DESCRIPTION REV #-NO. DATE 1/29/2024 KEY PLAN SHEET INFORMATION SHEET ISSUED: 10/06/2023 DESIGNED BY: DRJ DRJ DRAWN BY: REVIEWED BY: JCB SHEET TITLE: FLOOR PLAN - HVAC SHEET NO .: M101 ĸ L М



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[RED PACKA							CHEL					ARE R		1.00	TO BE KEPT ON THE
			B		GAU TI				HEA				EFFICIEN		SINGLE				CCUP/		
DRAWING SYMBOL		EXT. SP		OUTSIDE AIR	TEMPS (°F) @			MBH)				CTORS	EFFICIEI		ELECTI		WEIGHT	COMI MFR MODEL	PLETIO		
STWIDUL		(IN. WG)		CFM	UNIT ENT AIR	COIL LVG AIR TOT	AL S	SENS	INPUT	OUTPUT	SUPPLY	RETURN	EER SEER	AFUE M		VOLTAGE		NUMBER		8	OFFICE.
PU 1	1600	0.75	1.0	317	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB 48.	35 3	35.07	60.00	49.00	YES	YES	13 17.5	82 3	0.0 40.0	208/3/60	763	TRANE YHC047E3RUA		s, d any	eletions, additions or kind are allowed to this
PU 2	1600	0.75	1.0	317	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB 48.	35 3	35.07	60.00	49.00	YES	YES	13 17.5	82 3	0.0 40.0	208/3/60	763	TRANE YHC047E3RLA	oved set of		out written permission office.
PU 3	1600	0.75	1.0	317	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB 48.	35 3	35.07	60.00	49.00	YES	YES	13 17.5	82 3	0.0 40.0	208/3/60	763	TRANE YHC047E3RLA	SEE ST	TE	FIRE MARSHAL MBI COMPANIES INC.
PU 4	1485	0.75	1.0	300	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB 48.	35 3	35.07	60.00	49.00	YES	YES	13 17.5	82 3	0.0 30.0	208/3/60	763	TRANE YHC047E3RLA			KNOXVILLE, TN 37919 PHONE: (865) 584-0999 FAX: (865) 584-5213
- EQUI - AUTC - PROV - COOI - ECON	PMENT T DMATIC C /IDE DUC LING CAF	TO BE ARI (CHANGEO) OT SMOKE PACITIES E R W/ POWE	CERTIFIE /ER THE DETECT OO NOT I	ED AND U.L RMOSTAT ORS WHEF HAVE FAN I	. AND A.G.A. APPRO WITH LOCKING PLAS	STIC COVER. DVE. INSTALL PER NFPA & AL															
									EXH	AUST	FAN	SCH	EDUL	E							
					DRAV SYM		AMCA CFM	S.P. IN. WG	RPM	TIP SPEED	WATTS/ HP	TY	PE	VOLTAGE	SONES	WEIGHT (LBS.)		FACTURER DEL NO.			SEAL
					E	F 122 - MENS	180	0.266	1400	1,590	48 W		LING ST FAN	115/60/1	1.5	24		ENHECK P-A190		6	SAMUULU.
					E	F 125 - WOMENS	180	0.266	1400	1,590	48 W		LING ST FAN	115/60/1	1.5	24		ENHECK P-A190			ERED ENCY
					E	F 114 - WELDING SHOP	3,000	0.25	947	5,982	3/4 HP		AXIAL ST FAN	115/60/1	9.9	80		ENHECK I-02-315-VG			
					E	F 114 - WELDING SHOP	3,000	0.25	947	5,982	3/4 HP		AXIAL ST FAN	115/60/1	9.9	80		ENHECK I-02-315-VG			ARICATULE R.
					E	F 111 - AG SHOP	3,000	0.25	947	5,982	3/4 HP		AXIAL ST FAN	115/60/1	9.9	80	AER-24	ENHECK I-02-315-VG			10435
					E	F 111 - AG SHOP	3,000	0.25	947	5,982	3/4 HP	WALL EXHAU	AXIAL ST FAN	115/60/1	9.9	80		ENHECK I-02-315-VG			10435 OF TENED 23

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	EXHAUST FAN SCHEDULE													
DRAWING SYMBOL	USE	AMCA CFM	S.P. IN. WG			TYPE	VOLTAGE	SONES	WEIGHT (LBS.)	MANUFACTURER MODEL NO.				
EF 1	122 - MENS	180	0.266	1400	1,590	48 W	CEILING EXHUAST FAN	115/60/1	1.5	24	GREENHECK SP-A190			
EF 2	125 - WOMENS	180	0.266	1400	1,590	48 W	CEILING EXHAUST FAN	115/60/1	1.5	24	GREENHECK SP-A190			
EF 3	114 - WELDING SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG			
EF 4	114 - WELDING SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG			
EF 5	111 - AG SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG			
EF 6	111 - AG SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG			

ACCESSORIES AND FEATURES:

ROOF FANS: ROUND LOW SILHOUETTE ALUMINUM HOUSING; CENTRIFUGAL ALUMINUM WHEEL; BIRDSCREEN & BACKDRAFT DAMPER; SAFETY DISCONNECT @ FAN; PREFAB CURB TO MATCH ROOF CONSTRUCTION AND SLOPE; WALL SWITCH OR STARTER. CEILING FANS; ALUMINUM INLET GRILLE; LINED HOUSING; CENTRIFUGAL FAN; BACKDRAFT DAMPER; FLAT ROOF CAP OR ROOF JACK AS APPLICABLE; SOLID STATE SPEED CONTROLLER MTD. TO UNIT FOR BALANCING AND WALL SWITCH FOR ON/OFF CONTROL. WALL FANS: WALL SHUTTER (HEAVY DUTY); WALL COLLAR; MOTOR SIDE GUARD; DISCONNECT @ FAN

	LOUVER SCHEDULE											
DRAWING SYMBOL	LOUVER SIZE (WIDTH x HEIGHT)	CFM	MINIMUM SQ/FT FREE AREA	MAXIMUM PRESSURE DROP (IN. WG)	MANUFACT-URER & MODEL NO.							
L 1	36 X 42	3000	3.73	0.12	RUSKIN ELF211D							
L 2	36 X 42	3000	3.73	0.12	RUSKIN ELF211D							
L 3	36 X 42	3000	3.73	0.12	RUSKIN ELF211D							
L 4	36 X 42	3000	3.73	0.12	RUSKIN ELF211D							

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ACCESSORIES AND FEATURES: (BY EQUIPMENT INSTALLER)

LOUVERS SHALL BE BEAR AMCA SEAL AND SHALL BE TESTED IN ACCORDANCE WITH AMCA 5111. WATER PENETRATION THROUGH LOUVER SHALL NOT OCCUR BELOW 1000 FPM (FREE AREA)

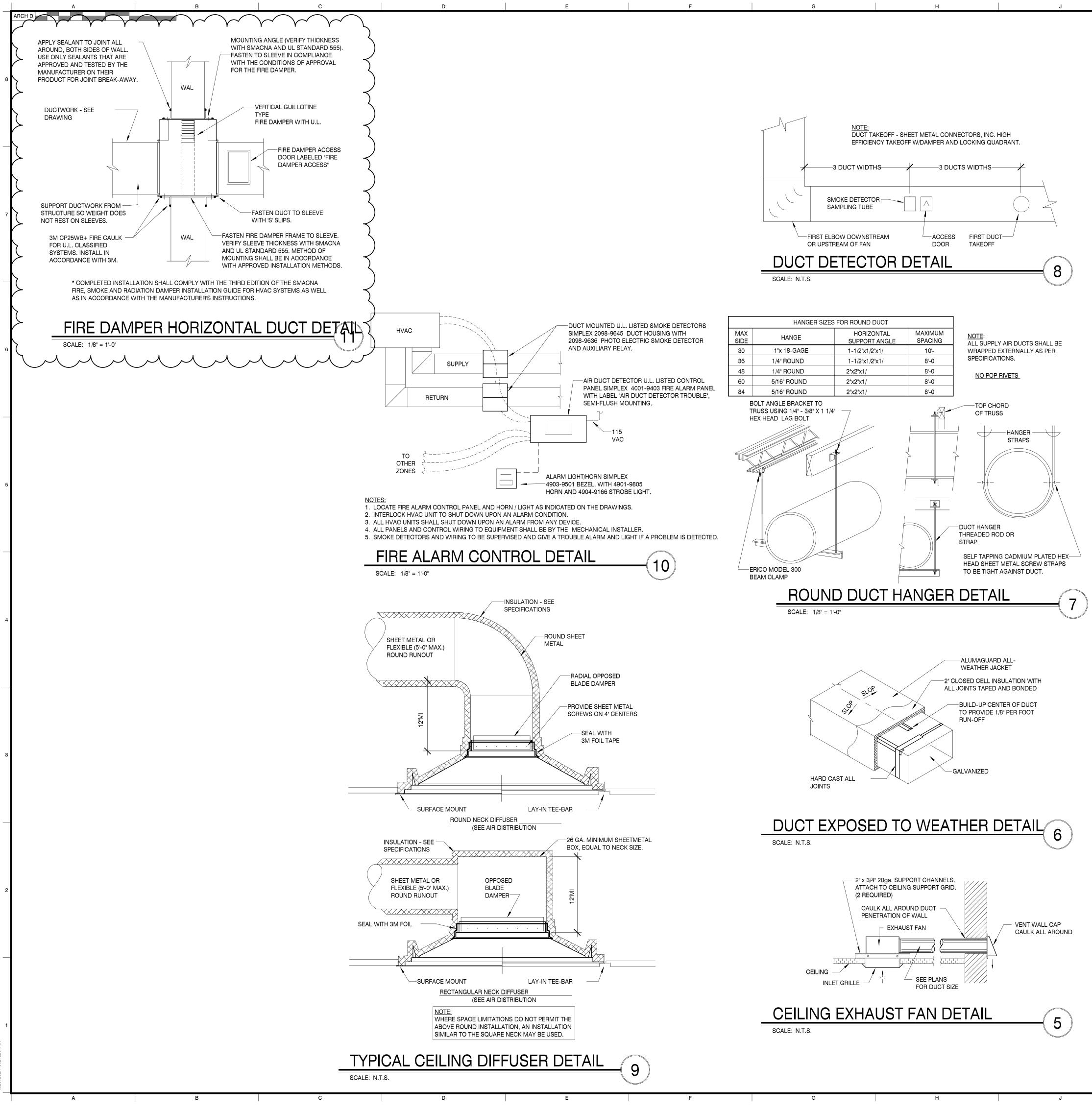
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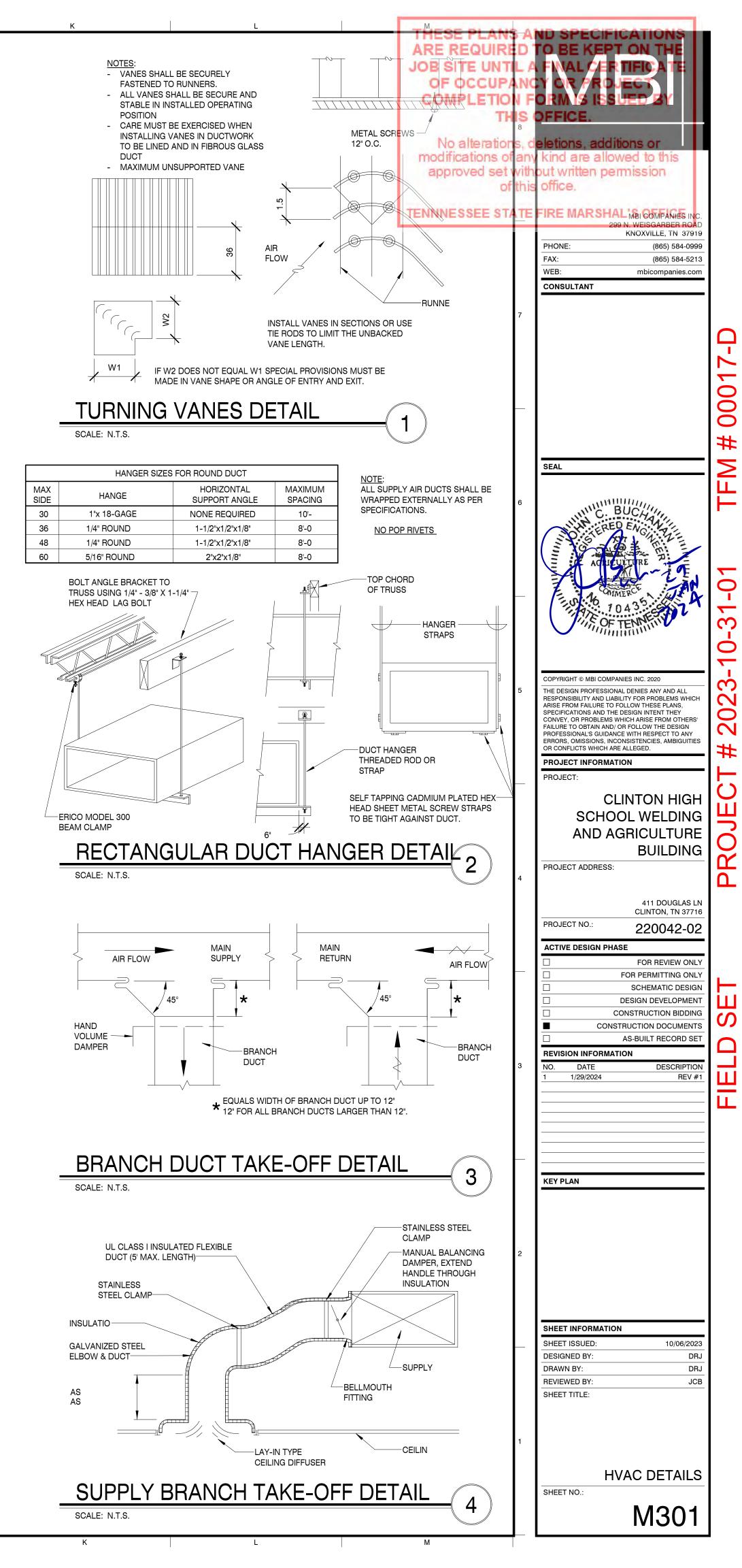
GAS UNIT HEATER SCHEDULE										
DRAWING SYMBOL	TYPE	CFM			VOLTAGE FAN HP	WEIGHT (LBS)	MANUFACTURER MODEL NO.			
GUH 1	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/1Ø 0.06	58	REZNOR UDZ - A			
GUH 2	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/1Ø 0.06	58	REZNOR UDZ - A			
GUH 3	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/1Ø 0.06	58	REZNOR UDZ - A			
GUH 4	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/1Ø 0.06	58	REZNOR UDZ - A			

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COPYRIGHT © MBI COMPANIES INC. 2020 THE DESIGN PROFESSIONAL DENIES ANY AND ALL	(
RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY	
CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES	
OR CONFLICTS WHICH ARE ALLEGED.	=
PROJECT:	ł
SCHOOL WELDING AND AGRICULTURE	
BUILDING	
PROJECT ADDRESS:	
411 DOUGLAS LN	
CLINTON, TN 37716 PROJECT NO.: 220042-02	
FOR REVIEW ONLY FOR PERMITTING ONLY OUTPUTTING ONLY	١.
SCHEMATIC DESIGN DESIGN DEVELOPMENT	
CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS	(
AS-BUILT RECORD SET	1
NO. DATE DESCRIPTION	li
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KEY PLAN	
SHEET INFORMATIONSHEET ISSUED:10/06/2023	
DESIGNED BY: DRJ DRAWN BY: DRJ	
REVIEWED BY: JCB SHEET TITLE:	
HVAC SCHEDULES SHEET NO.:	
M201	
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	MBING
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	HOT WATER
	HOT WATER
F	FILTERED
	SANITARY DRAIN
	VENT
G	GAS
L	LIQUID
A	AI
C	
	CONDENSATE
0	OXYGE
N	NITROUS
	VACUU
G	GREASE
Λ	WASTE
A	ACID
A s	ACID
	STORM
\oplus	ROOF
	RAIN WATER
F C	FLOOR
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	ABOVE CEILING
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н н	WATER HAMMER
η	HOSE
+	SUPPLY STOP ZURN
C	PIPE TURNING
0	PIPE TURNING
	BALL
····	BALANCING
	PRESSURE REDUCING
	BACKFLOW PREVENTER STRAINE
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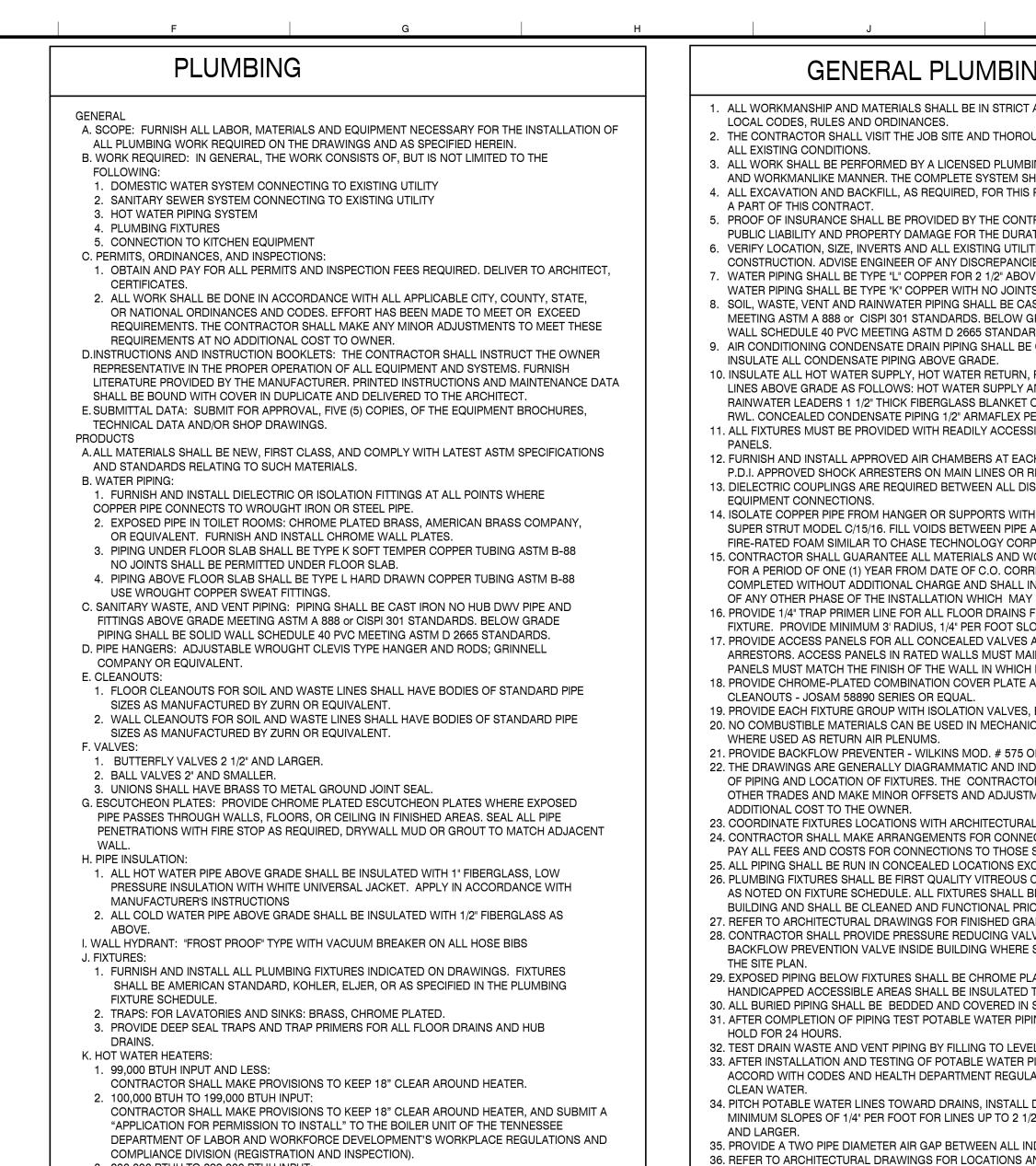
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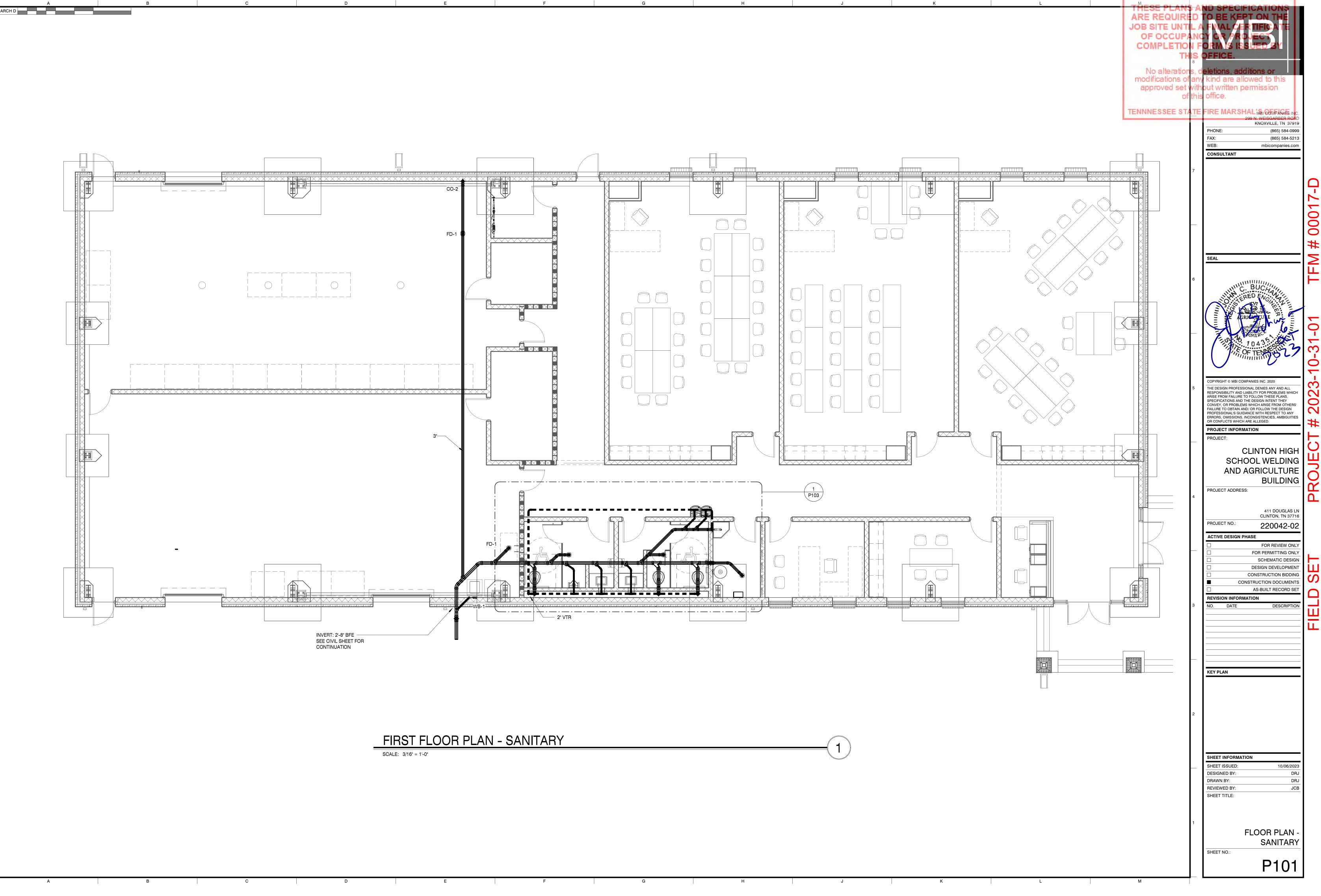
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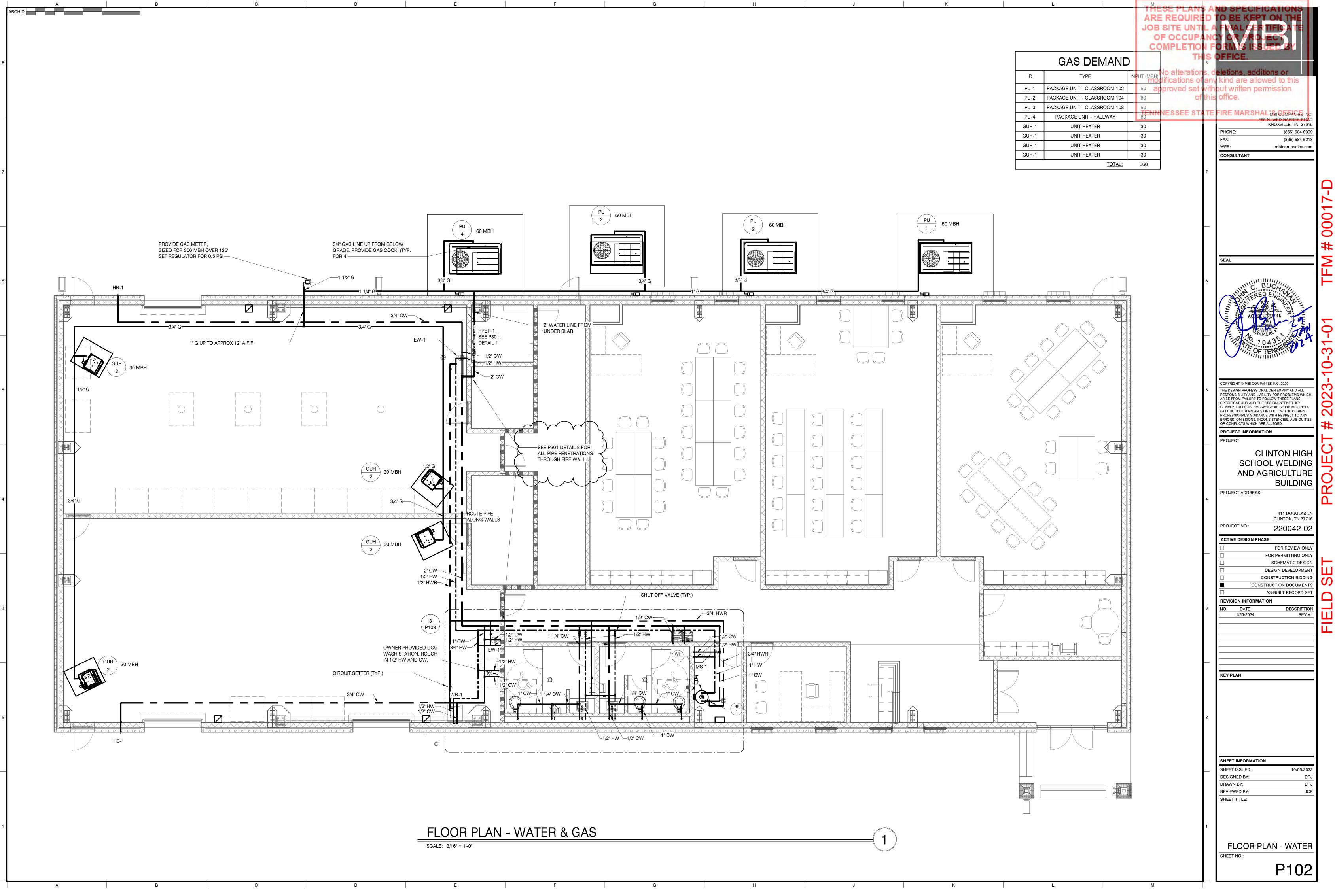


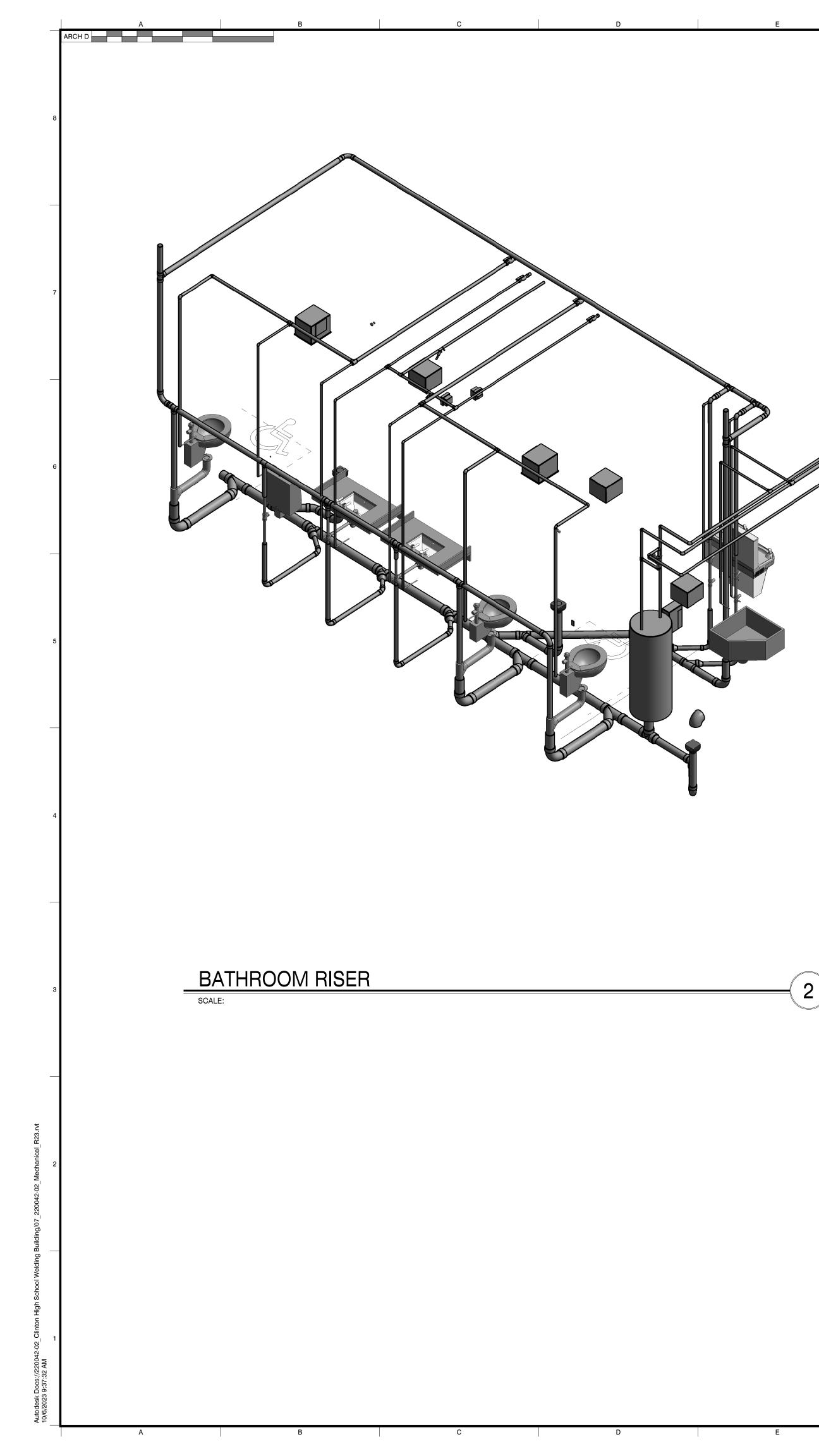
3. 200,000 BTUH TO 399,000 BTUH INPUT: CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 18" CLEAR AROUND HEATER, THE HEATER MUST BE ASME CODE COMPLIANT, AND MUST BE FILED FOR REGISTRATION AND INSPECTION.

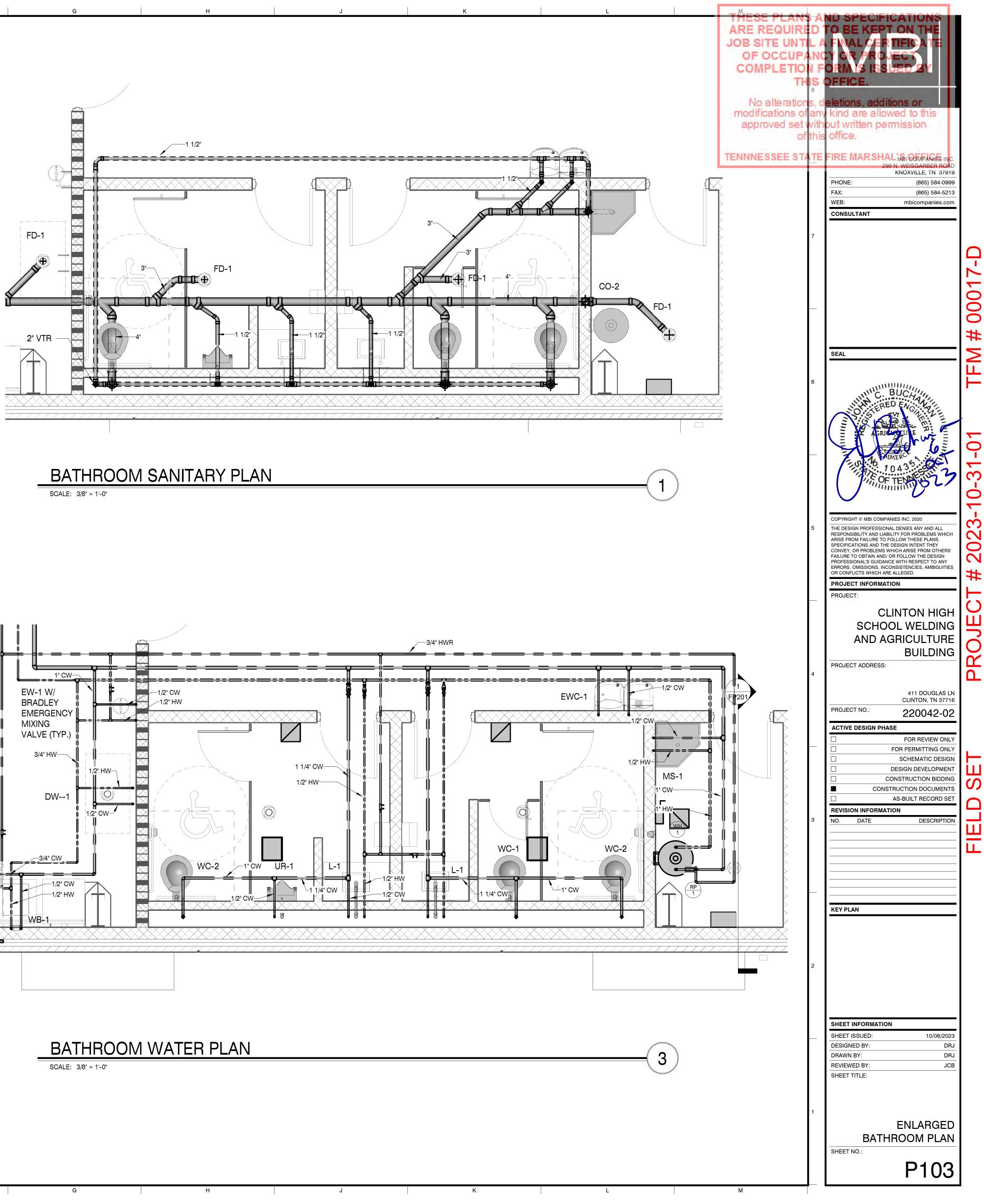
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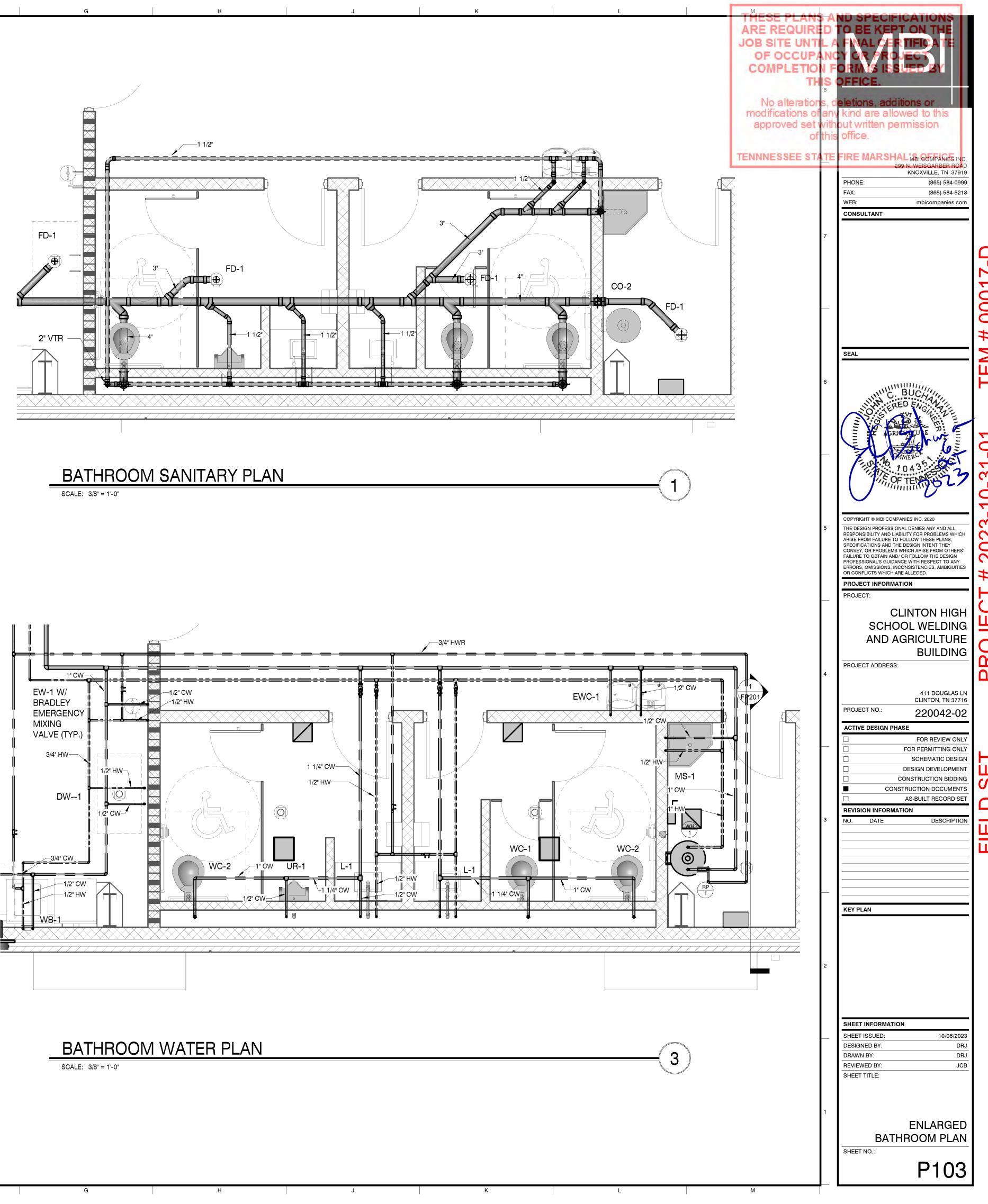
J K	THESE PLANS	AND SPECIFICATIONS
GENERAL PLUMBING NOTES	PLUMBING ABBREVIATIONS	D TO BE KEPT ON THE
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.	AFF ABOVE FINISHED FLOOR OF OCCUPA AHJ AUTHORITY HAVING JURISDICTION	NCY OR PROJECT
 THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR, IN A FIRST-CLASS 	AIR COMPRESSED AIR COMPLETION AFUE ANNUAL FUEL UTILIZATION EFFICIENCY TH BOP BOTTOM OF PIPE	IS OFFICE.
AND WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE. 4. ALL EXCAVATION AND BACKFILL, AS REQUIRED, FOR THIS PHASE OF CONSTRUCTION SHALL BE	BTU BRITISH THERMAL UNIT BTUH BTU PER HOUR No alteration	
A PART OF THIS CONTRACT. 5. PROOF OF INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.		any kind are allowed to this vithout written permission
 VERIFY LOCATION, SIZE, INVERTS AND ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES. 	CO CLEANOUT OF	this office.
 WATER PIPING SHALL BE TYPE "L" COPPER FOR 2 1/2" ABOVE GRADE. ALL UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER WITH NO JOINTS UNDER SLAB. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON NO HUB ABOVE GRADE 	CPVC CHLORINATED POLYVINYL CHLORIDENNNESSEE STA CU COPPER CW COLD WATER (DOMESTIC)	TE FIRE MAR SHAL MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919
MEETING ASTM A 888 or CISPI 301 STANDARDS. BELOW GROUND PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC MEETING ASTM D 2665 STANDARDS. 9. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE COPPER DWV PIPE AND FITTINGS.	DF DRINKING FOUNTAIN DI DUCTILE IRON EC ELECTRICAL CONTRACTOR	PHONE: (865) 584-0999 FAX: (865) 584-5213
INSULATE ALL CONDENSATE PIPING ABOVE GRADE. 10. INSULATE ALL HOT WATER SUPPLY, HOT WATER RETURN, RAINWATER AND CONDENSATE	EWCELECTRIC WATER COOLERFDFLOOR DRAIN	WEB: mbicompanies.com
LINES ABOVE GRADE AS FOLLOWS: HOT WATER SUPPLY AND RETURN, 1" THICK FIBERGLASS. RAINWATER LEADERS 1 1/2" THICK FIBERGLASS BLANKET ON DRAIN BODY AND 1" HORIZONTAL RWL. CONCEALED CONDENSATE PIPING 1/2" ARMAFLEX PERFORM.	FR FLOOD RIM FS FLOOR SINK FT FEET OR FOOT	
11. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND MARKED ACCESS PANELS.	FZ FREEZE GAL GALLON	
12. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AND P.D.I. APPROVED SHOCK ARRESTERS ON MAIN LINES OR RISERS. 13. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL PIPING AND	GCGENERAL CONTRACTORGIGREASE INTERCEPTORGPDGALLON PER DAY	
EQUIPMENT CONNECTIONS. 14. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD (HAIR FELT LINING)	GPM GALLON PER MINUTE HB HOSE BIBB HD HUB DRAIN	2
SUPER STRUT MODEL C/15/16. FILL VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE-RATED FOAM SIMILAR TO CHASE TECHNOLOGY CORP CIC PR-855. 15. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS	HS HAND SINK IDW INDIRECT WASTE	
FOR A PERIOD OF ONE (1) YEAR FROM DATE OF C.O. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.	IFGCINTERNATIONAL FUEL GAS CODEINVINVERT ELEVATIONIPCINTERNATIONAL PLUMBING CODE) () () () () () () () () () (
16. PROVIDE 1/4" TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM THE NEAREST PLUMBING FIXTURE. PROVIDE MINIMUM 3' RADIUS, 1/4" PER FOOT SLOPE AROUND ALL FLOOR DRAINS.	IR INFRARED LAV LAVATORY	SEAL SEAL
17. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE RATING. ALL ACCESS PANELS MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.	LT LAUNDRY TUB MANF MANUFACTURER MV MIXING VALVE	
18. PROVIDE CHROME-PLATED COMBINATION COVER PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS - JOSAM 58890 SERIES OR EQUAL.	M METER MBH 1,000 BTU PER HOUR MC MECHANICAL CONTRACTOR	° C. BUCH
 PROVIDE EACH FIXTURE GROUP WITH ISOLATION VALVES, BOTH HOT (110) AND COLD WATER. NO COMBUSTIBLE MATERIALS CAN BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS. 	MC MECHANICAL CONTRACTOR MS MOP SINK NG NATURAL GAS	TERED ENGLASS
 PROVIDE BACKFLOW PREVENTER - WILKINS MOD. # 575 OR EQUAL. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND LOCATION OF FIXTURES. THE CONTRACTOR SHALL COORDINATE WORK WITH 	NIC NOT IN CONTRACT NO NITROUS OXIDE NTS NOT TO SCALE	A GRIGATULE W
OTHER TRADES AND MAKE MINOR OFFSETS AND ADJUSTMENTS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.	OI OIL INTERCEPTOR PC PLUMBING CONTRACTOR	
 COORDINATE FIXTURES LOCATIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES. 	PE POLYTHINE PSI POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE	OF TENHOZZ OP
25. ALL PIPING SHALL BE RUN IN CONCEALED LOCATIONS EXCEPT WHERE NOTED. 26. PLUMBING FIXTURES SHALL BE FIRST QUALITY VITREOUS CHINA, STAINLESS STEEL OR PLASTIC	RDROOF DRAINRPBPREDUCED PRESSURE BACKFLOW	0
AS NOTED ON FIXTURE SCHEDULE. ALL FIXTURES SHALL BE RIGIDLY CONNECTED TO THE BUILDING AND SHALL BE CLEANED AND FUNCTIONAL PRIOR TO ACCEPTANCE. 27. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED GRADES.	PREVENTER RWL RAIN WATER LEADER SAN SANITARY SEWER	
28. CONTRACTOR SHALL PROVIDE PRESSURE REDUCING VALVE AND REDUCED PRESSURE BACKFLOW PREVENTION VALVE INSIDE BUILDING WHERE SERVICE ENTERS OR AS SHOWN ON THE SITE PLAN.	SD STORM DRAIN SQ SQUARE SS SERVICE SINK	5 THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTERT THEY CONVEY. OR PROPELEMS WHICH ADJEED FORM OTHERS!
29. EXPOSED PIPING BELOW FIXTURES SHALL BE CHROME PLATED. PIPING AT FIXTURES IN HANDICAPPED ACCESSIBLE AREAS SHALL BE INSULATED TO PROTECT AGAINST BURNS.	TOP TOP OF PIPE UR URINAL	FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS. OMISSIONS. INCONSISTENCIES. AMBIGUITIES
30. ALL BURIED PIPING SHALL BE BEDDED AND COVERED IN SAND, GRAVEL, OR CRUSHED STONE. 31. AFTER COMPLETION OF PIPING TEST POTABLE WATER PIPING TO 125 LBS. PER SQ. INCH AND HOLD FOR 24 HOURS.	VAC VACUUM VIF VERIFY IN FIELD VTR VENT TO ROOF	OR CONFLICTS WHICH ARE ALLEGED.
32. TEST DRAIN WASTE AND VENT PIPING BY FILLING TO LEVEL OF HIGHEST THE VENT. 33. AFTER INSTALLATION AND TESTING OF POTABLE WATER PIPING, STERILIZE ALL LINES IN		
ACCORD WITH CODES AND HEALTH DEPARTMENT REGULATIONS AND FLUSH AND FILL WITH CLEAN WATER. 34. PITCH POTABLE WATER LINES TOWARD DRAINS, INSTALL DRAIN WASTE AND VENT PIPING WITH		
MINIMUM SLOPES OF 1/4" PER FOOT FOR LINES UP TO 2 1/2" AND 1/8" PER FOOT FOR LINES 3" AND LARGER. 35. PROVIDE A TWO PIPE DIAMETER AIR GAP BETWEEN ALL INDIRECT WASTE AND THE RECEIVER.		AND AGRICULTURE
36. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS OF FIRE WALLS AND FLOOR CEILING ASSEMBLIES.		PROJECT ADDRESS:
37. INSTALL FIRE STOP MATERIAL IN ACCORD WITH U.L. LISTING AT ALL PENETRATIONS. 38. PIPE WATER HEATER RELIEF VALVE TO EXTERIOR PER CODE OR TO FLOOR DRAIN. 39. PROVIDE MAXITROL SERIES GF OR EQUAL FUEL GAS STRAINER PER NFPA 86 UPSTREAM OF		411 DOUGLAS LN
SAFETY SHUTOFF VALVES. (PHONE NUMBER - (248) 356-1400) 40. INSTALL WATER HEATERS IN ACCORD WITH MANUFACTURERS INSTRUCTION AND ALL STATE		CLINTON, TN 37716 PROJECT NO.: 220042-02
AND LOCAL CODE REQUIREMENTS. WATER STORAGE SHALL HAVE A TEMPERATURE OF 140 DEGREES. 41. ALL LAVATORIES AND HAND SINKS SHALL HAVE AN APPROVED ASSE 1070 DEVICE(S)		ACTIVE DESIGN PHASE
PROVIDING A MAXIMUM OF 110° F FOR HOT WATER. PROVIDE SHOP DRAWINGS FOR APPROVAL. 42. ALL FOOD RELATED EQUIPMENT WITH DRAIN LINES, E.G., FOOD PREPARATION SINKS, WAREWASH SINKS, ETC. WASTE THROUGH A TWO PIPE DIAMETER AIR GAP OR APPROVED AIR		FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN
BREAK. WATER HEATER/BOILER POP-OFF LINES; ICE MACHINE AND ICE BIN MELTWATER DRAIN LINES, WATER FILTER/TREATMENT EQUIPMENT DRAIN LINES, AND SIMILAR DRAINS FROM		
EQUIPMENT USING DOMESTIC WATER (INCLUDING DIPPER WELLS) MUST HAVE A TWO PIPE DIAMETER AIR GAP AT THE SEWER. EQUIPMENT SUCH AS DIPPER WELLS, STEAMERS, WOK TABLE FLUSH SYSTEMS, AND SIMILAR DEVICES WITH THE POTENTIAL FOR SUBMERGED INLETS,		□ CONSTRUCTION BIDDING □ CONSTRUCTION DOCUMENTS □ AS-BUILT RECORD SET
ETC. MUST HAVE AN APPROVED TWO PIPE DIAMETER AIR GAP OR DUAL CHECK VALVE MEETING ASSE STANDARD 1012, 1024, OR EQUIVALENT INSTALLED ON THE POTABLE WATER SUPPLY.		3 NO. DATE DESCRIPTION
43. ALL SANITARY AND GREASE WASTE PIPING IN AND/OR BELOW KITCHEN AREAS SHALL BE CAST		
		KEY PLAN
		2
		SHEET INFORMATION
		SHEET ISSUED: 10/06/2023 DESIGNED BY: DRJ
		DRAWN BY: DRJ REVIEWED BY: JCB
		SHEET TITLE:
		1
		PLUMBING LEGEND
		AND NOTES SHEET NO.:
		P001
J K	L M	











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EQ	JAL PRODUCTS AND ALTERNAT	EE (3) DAYS BEFORE BID DATE. CONTRACTOR SHALL PROVIDE A MIN OF THREE (3) COPIES OF SHOP DRAWING TE MANUFACTURERS LISTED SHALL ALSO BE CONSIDERED: SLOAN, JOSAM, LEONARD, GUARDIAN, DURA-TREI					VILLOUGHBY	ITEM	DESCRIPTION	
RPBP-1	BACKFLOW PREVENTER	WILKINS, MODEL # 975XL2TCUSAG REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER "Y" PATTERN BODY. PROVIDED WITH "Y" STAINER ON INLET SIDE OF DEVICE AND PROVIDED WITH AIRGAP AND TEST COCKS FACING UP FOR TESTER. INSTALLED HEIGHT MIN 4'-0" A.F.F. MAX 7'-0" A.F.F.					SEE PLUMBING AND IRRIGATION DRAWINGS FOR SIZE OF DEVICE	CO-1	CLEANOUT	ZURN, MODEL #ZN-1400 INTERIOR FINISH FLOOR, 5" ROUND NICKEL BRC
	PRESS. RED. VALVE	WILKINS, MODEL # 500 SERIES BRONZE BODY CONSTRUCTION SERVICEABLE INLINE, CAN BE INSTALLED IN ANY						CO-2	CLEANOUT	ZURN LC, MODEL #CO2413-PVC-ST 3' X 4" WALL CLEANOUT BODY AND PLUG
		POSITION. INSTALL ON INLET SIDE OF RPZ BACKFLOW DEVICE.							WALL PLATE	ZURN LC, MODEL #CO2530-SS7 7" ROUND STAINLESS STEEL AQCCESS COVER N
	PRESSURE GUAGE	WILKINS, MODEL # 2004-25-300, 0-300 POUND GUAGE TO BE INSTALLED ON INLET AND OUTLET SIDE OF PRV.						EW-1	EMERGENCY EYE WASH UNIT	BRADLEY, MODEL #S19-214EW EMERGENCY EYE WASH UNIT W/INLINE FILTER #
8-1	URINAL - HC	ZURN, Z5755-U OMNI-FLOW .125 TO 1GPF WALL MOUNTED TOP SPUD ASYMMETRIC BACK WALL URINAL WITH INTEGRAL	3/4"		2"	1-1/2"			MIXING VALVE TRAP	BRADLEY, MODEL #S19-2000 EMERGENCY FIXTURE THERMOSTATIC MIXING V 2" P-TRAP
	VALVE	P-TRAP AND VANDAL RESISTANT OUTLET STRAINER ZURN, ZER6003AV-WS1-CCP AQUAVANTAGE BATTERY OPERATED SENSOR FLUSH VALVE 1 GPF CLOG RESISTANT TRIPLE FILTERED BY- PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS. SENSOR TO HAVE 6VDC MOTOR WITH OVERRIDE BUTTON						EWC-1	ELEC. WTR. COOLER-HC	ELKAY, MODEL # LZSTL8WSLP BI-LEVEL WALL MOUNTED NON-PRESSURIZED V FILTER AND BOTTLE FILLER. 1.1 GPM 115V/60HZ 4.0AMP 370 WATTS. COOLE CONSTRUCTION, WATER LINES, REFRIGERANT L
	CARRIER	ZURN, MODEL #ZR-1222 SUPPORT W/BEARING PLATE							SUPPLY	PROVIDE IN LIGHT GRAY ZURN, Z8804-XL-LRLKA-PC 1/2" X 3/8" COMP X C
	HAMMER ARRESTOR	ZURN, MODEL #Z-1700-100 PLUMBING DRAINAGE INSTITUTE RATING "A" (1-11 FU)							CARRIER	TURN CHROME PLATED STOP AND CHROME PL
D-1		ZURN, Z5655-BWL1 1.6GPF SIPHON JET FLUSH ACTION FLOOR MOUNTED STANDARD HEIGHT WATER CLOSET WITH 2-1/8" FULLY GLAZED TRAPWAY	1"		4"	2"			P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TR
	CLOSET FLANGE	ZURN MODEL # CF2982 CAST IRON TORQUE SET CLOSET FLANGE WITH INTEGRAL TEST CAP						FD-1	FLOOR DRAIN	ZURN,MODEL #ZN415-6SZ1 GENERAL SERVICE DRAIN WITH 6" SQUARE STR
	VALVE	ZURN, ZER6000AV-WS1-CCP AQUAVANTAGE BATTERY OPERATED SENSOR FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS. SENSOR TO HAVE 6VDC MOTOR WITH OVERRIDE BUTTON							TRAP GUARD TRAP	ZURN, Z1072 ZSHIELD TRAP GUARD ZURN, MODEL #Z-1000-P
	SEAT	ZURN, Z5955SS-EL-STS ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE						HB-1	HOSE BIBB	DEEP SEAL TRAP ZURN, MODEL #Z-1321-P34-PC-BFP CHROME PLATED HOSE BIBB WITH WHEEL HAN
	HAMMER ARRESTOR	ZURN, MODEL #Z-1700-100 PLUMBING DRAINAGE INSTITUTE RATING "A" (1-11 FU)								INLET CONNECTION, AND 3/4" MALE HOSE CON
C-2	WATER CLOSET	ZURN, Z5665-BWL1 1.6GPF ADA SIPHON JET FLUSH ACTION FLOOR MOUNTED ADA HEIGHT WATER CLOSET WITH 2-1/8" FULLY GLAZED TRAPWAY	1"		4"	2"		L-1A	LAVATORY FAUCET	ZURN, Z5114 OVAL 20"X17" 4"CC VITREOUS CHII SYMMONS, S-20-0-1.5 SYMMETRIX SINGLE HAN AERATOR AND CERAMIC DISC CARTRIDGE
	CLOSET FLANGE	ZURN MODEL # CF2982 CAST IRON TORQUE SET CLOSET FLANGE WITH INTEGRAL TEST CAP						(L	THERMOSTATIC MIXING VALVE	SYMMONS, 7-210-CK MAXLINE 3/8" THERMOSTA
	VALVE	ZURN, ZER6000AV-WS1-CCP AQUAVANTAGE BATTERY OPERATED SENSOR FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS. SENSOR TO							DRAIN	ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST E
	SEAT	HAVE 6VDC MOTOR WITH OVERRIDE BUTTON ZURN, Z5955SS-EL-STS							P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TR/
	SLAT	ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE							SUPPLY	ZURN, Z8804-XL-LRLKQ-PC 1/2" X 3/8" COMP X C 1/4 TURN CHROME PLATED STOPS AND CHROM
	HAMMER ARRESTOR	ZURN, MODEL #Z-1700-100 PLUMBING DRAINAGE INSTITUTE RATING "A" (1-11 FU)						L-1B	LAVATORY FAUCET	ZURN, Z5344 20"X18" WALL HUNG 4"CC VITREO SYMMONS, S-20-0-1.5 SYMMETRIX SINGLE HAN
3-1	WASHER BOX	SYMMONS, MODEL #LM-600-F-A LAUNDRY MATE SUPPLY & DRAIN 2" P-TRAP, PROVIDE VACUUM BREAKERS & HOSE	1/2"	1/2"	2"	1-1/2"				AERATOR AND CERAMIC DISC CARTRIDGE SYMMONS, 7-210-CK MAXLINE 3/8" THERMOSTA
		CONNECTION WASTE 2", VENT							VALVE	
										ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST E
									P-TRAP SUPPLY	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TR/ ZURN, Z8804-XL-LRLKQ-PC 1/2" X 3/8" COMP X C
									TRAP WRAP	1/4 TURN CHROME PLATED STOPS AND CHROM ZURN, Z8946-1-NT COMBINATION TRAP WRAP K
									CARRIER	WRAPS PROVIDE WITH APPROPRIATE APPROVED ZURN
								LT-1	LAUNDRY TUB	ZURN, MODEL # MS2620-F SINGLE BASIN MOLDED STONE LAUNDRY TUB
									FAUCET	ZURN, MODEL # Z812-XL-N1 4"CC SOLID BRASS FAUCET WITH 2-1/2" HAND

WATER HEATER SCHEDULE (ELECTRIC)

DRAWING SYMBOL	STORAGE CAPACITY	NUMBER OF ELEMENTS	KILOWATT PER	VOLTAGE	RECOVERY GPH @ 70° RISE	MANUFACTURER & MODEL #	
WH 1	50 GAL.	1	24.0	208/3/60	142	AO SMITH DRE-52-24	

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ACCESSORIES AND FEATURES: • ALTERNATE MANUFACTURER'S: LOCHINVAR, STATE IND. • UNIT SHALL BE ASME LISTED • PROVIDE ASSE 1016/1017 DEVICE SET AT MAX 110° F • NON-SIMULTANEOUS OPERATION

		RECIRCUL	ATION PUMP	SCHEDULE		
DRAWING SYMBOL	HP	VOLTAGE	MOTOR RPM	WEIGHT (LBS.)	MANUFACTURER & MODEL #	
	1/12	115	2,650	11.6	BELL & GOSSETT PL-30B	ŀ
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ACCESSORIES AND FEATURES:
ALL BRONZE CIRCULATOR PUMP
PROVIDE WITH FLANGED BALL VALVES ON INLET AND OUTLET.
SEE SPECIFICATIONS FOR OTHER PERTINENT INFORMATION.

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PLUMBING FIXTURE SCHED	ULE

J K

TRAP AND SUPPLY

MS-1 MOP SINK

FAUCET

TRAP

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E F G H

DIMENSIONS
21.75" X 55.75"
SYSTEM

HW-RECRIC

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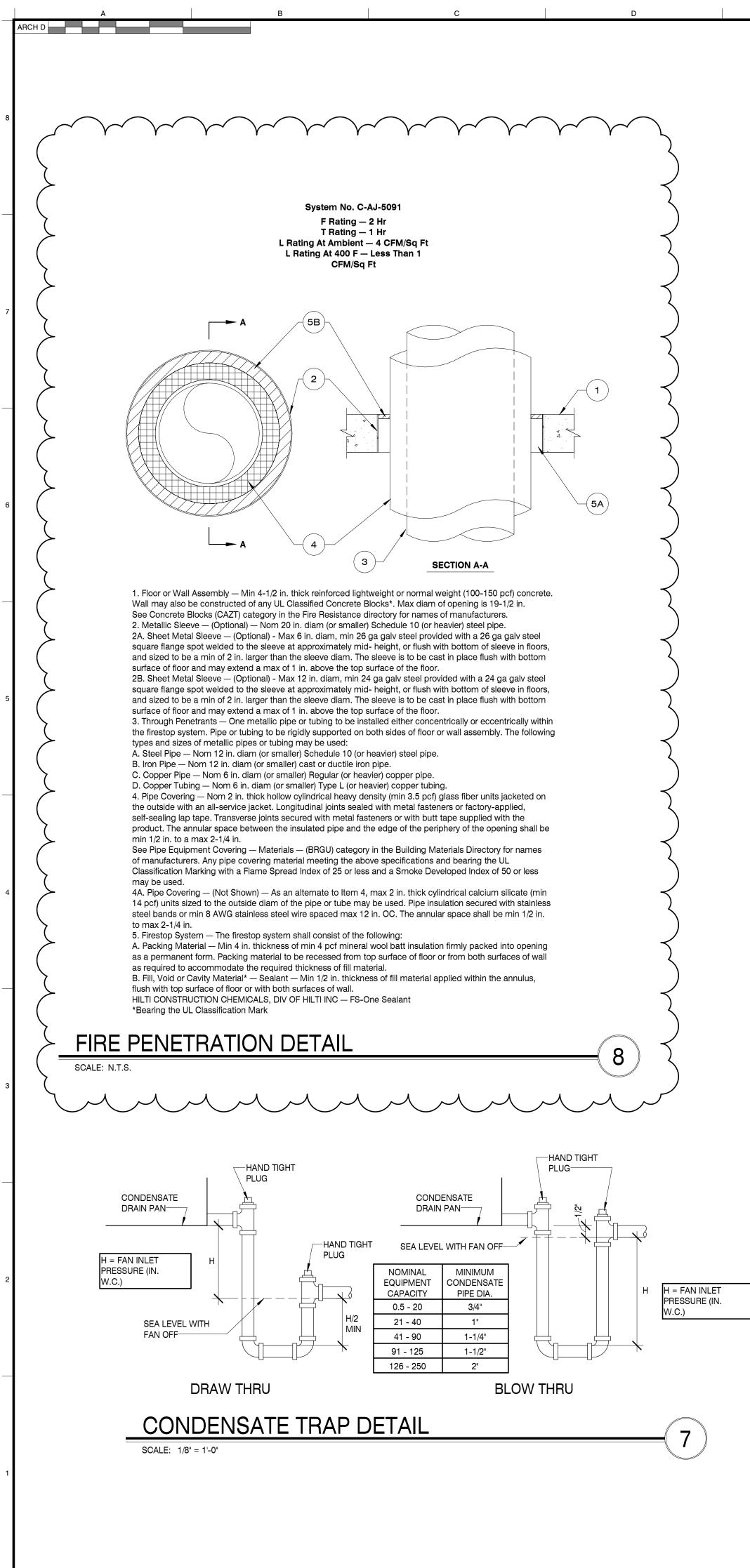
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J K I	-				THESE PL			ND SPECIFICATIONS
					JOB SITE L OF OCC COMPLE		N F	ORM 5 ISSUED BY OFFICE.
SPECIFICATION	CW (inch)	HW (inch)	W (inch)	V (inch)		ation is of set v	⁸ s, d any vith	eletions, additions or kind are allowed to this out written permission
ZURN, MODEL #ZN-1400								office.
INTERIOR FINISH FLOOR, 5" ROUND NICKEL BRONZE TOP ZURN LC, MODEL #CO2413-PVC-ST					TENNNESSEE	STA	TE	FIRE MAR SHAL MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919
3' X 4" WALL CLEANOUT BODY AND PLUG ZURN LC, MODEL #CO2530-SS7								PHONE: (865) 584-0999 FAX: (865) 584-5213
7" ROUND STAINLESS STEEL AQCCESS COVER W/ SECURING SCREW. BRADLEY, MODEL #S19-214EW	1/2"	1/2"				_		WEB: mbicompanies.com CONSULTANT
EMERGENCY EYE WASH UNIT W/INLINE FILTER AND DRAIN DOWN EYE WASH SYSTEM	.,_	.,_					7	
EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE WITH COLD WATER BYPASS 2" P-TRAP						_		
ELKAY, MODEL # LZSTL8WSLP BI-LEVEL WALL MOUNTED NON-PRESSURIZED WATER COOLER W/ FLEX GUARD BUBBLE, 3000 GAL FILTER AND BOTTLE FILLER. 1.1 GPM 115V/60HZ 4.0AMP 370 WATTS. COOLER SHALL BE ALL METAL CONSTRUCTION, WATER LINES, REFRIGERANT LINES AND SOLID CONNECTION TO DRAIN. PROVIDE IN LIGHT GRAY	1/2"		1-1/4"	1-1/4"				
ZURN, Z8804-XL-LRLKA-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEON, 1/4 TURN CHROME PLATED STOP AND CHROME PLATED COPPER TUBE SUPPLY LINE PROVIDE WITH APPROPRIATE ZURN CARRIER								SEAL
ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT							6	
ZURN,MODEL #ZN415-6SZ1 GENERAL SERVICE DRAIN WITH 6" SQUARE STRAINER& SEDIMENT BUCKET			3"	1-1/2"		-		BUCH
ZURN, Z1072 ZSHIELD TRAP GUARD								
ZURN, MODEL #Z-1000-P DEEP SEAL TRAP								
ZURN, MODEL #Z-1321-P34-PC-BFP CHROME PLATED HOSE BIBB WITH WHEEL HANDLE AND VACUUM BREAKER. 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION.	3/4"							10435 0F TENNUSZ
ZURN, Z5114 OVAL 20"X17" 4"CC VITREOUS CHINA DROP IN LAVATORY SYMMONS, S-20-0-1.5 SYMMETRIX SINGLE HANDLE 4CC LAVATORY FAUCET WITH 1.5GPM	1/2"	1/2"	1-1/4"	1-1/4"		-		COPYRIGHT © MBI COMPANIES INC. 2020
AERATOR AND CERAMIC DISC CARTRIDGE SYMMONS, 7-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE							5	THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS,
ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST BRASS 17GA GRID DRAIN								SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY
ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT								ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION
ZURN, Z8804-XL-LRLKQ-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES								
ZURN, Z5344 20"X18" WALL HUNG 4"CC VITREOUS CHINA CONCEALED ARM LAVATORY SYMMONS, S-20-0-1.5 SYMMETRIX SINGLE HANDLE 4CC LAVATORY FAUCET WITH 1.5GPM AERATOR AND CERAMIC DISC CARTRIDGE SYMMONS, 7-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE	1/2"	1/2"	1-1/4"	1-1/4"		-		CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST BRASS 17GA GRID DRAIN							4	PROJECT ADDRESS:
ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT								411 DOUGLAS LN
ZURN, Z8804-XL-LRLKQ-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES								CLINTON, TN 37716 PROJECT NO.: 220042-02
ZURN, Z8946-1-NT COMBINATION TRAP WRAP KIT WITH ONE TRAP AND TWO SUPPLY PROTECTION WRAPS								ACTIVE DESIGN PHASE
PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER								FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT
ZURN, MODEL # MS2620-F SINGLE BASIN MOLDED STONE LAUNDRY TUB WITH ENAMELED ANGLE LEGS. ZURN, MODEL # Z812-XL-N1	1/2"	1/2"	1-1/2"	1-1/2"				DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET
4"CC SOLID BRASS FAUCET WITH 2-1/2" HANDLES AND 6" CAST BRASS SPOUT WITH VACUUM BREAKER.							3	REVISION INFORMATION NO. DATE DESCRIPTION
ZURN, MODEL # Z9904.000.0.19.B5.0 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT, ½"NOM X 3/8"OD STOPS WITH 20" BRAIDED STAINLESS STEEL SUPPLY LINES AND ESCUTCHEONS.								
STERN WILLIAMS, MODEL # HL-1800-T35-T40-D 24" X 24" X 12" TERRAZZO "HILOW" SQUARE SERVICE SINK W/SS CAP. PROVIDE 18" HIGH STAINLESS	1/2"	1/2"	3"	1-1/2"				
STEEL BACK SPLASH, CAULK EDGES FOR WATER TIGHT SEAL. PROVIDE WITH HOSE AND WALL BRACKET, S.S. MOP HANGER 24" LENGTH WITH 3 SPRING LOADED RUBBER GRIPS ZURN, MODEL # Z841M1-RC SERVICE SINK FAUCET W/VACUUM BREAKER SPOUT AND INTEGRAL 3/4" HOSE THREADED OUTLET,								
PAIL HOOK AND WALL BRACE. ZURN, MODEL # Z-1000,								
3" DEEP SEAL TRAP W/TRAP PRIMER Z-1022								
							2	
								SHEET INFORMATION
								SHEET ISSUED:10/06/2023DESIGNED BY:DRJ
								DRAWN BY: DRJ REVIEWED BY: JCB
								SHEET TITLE:
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								PLUMBING SCHEDULES
								P201

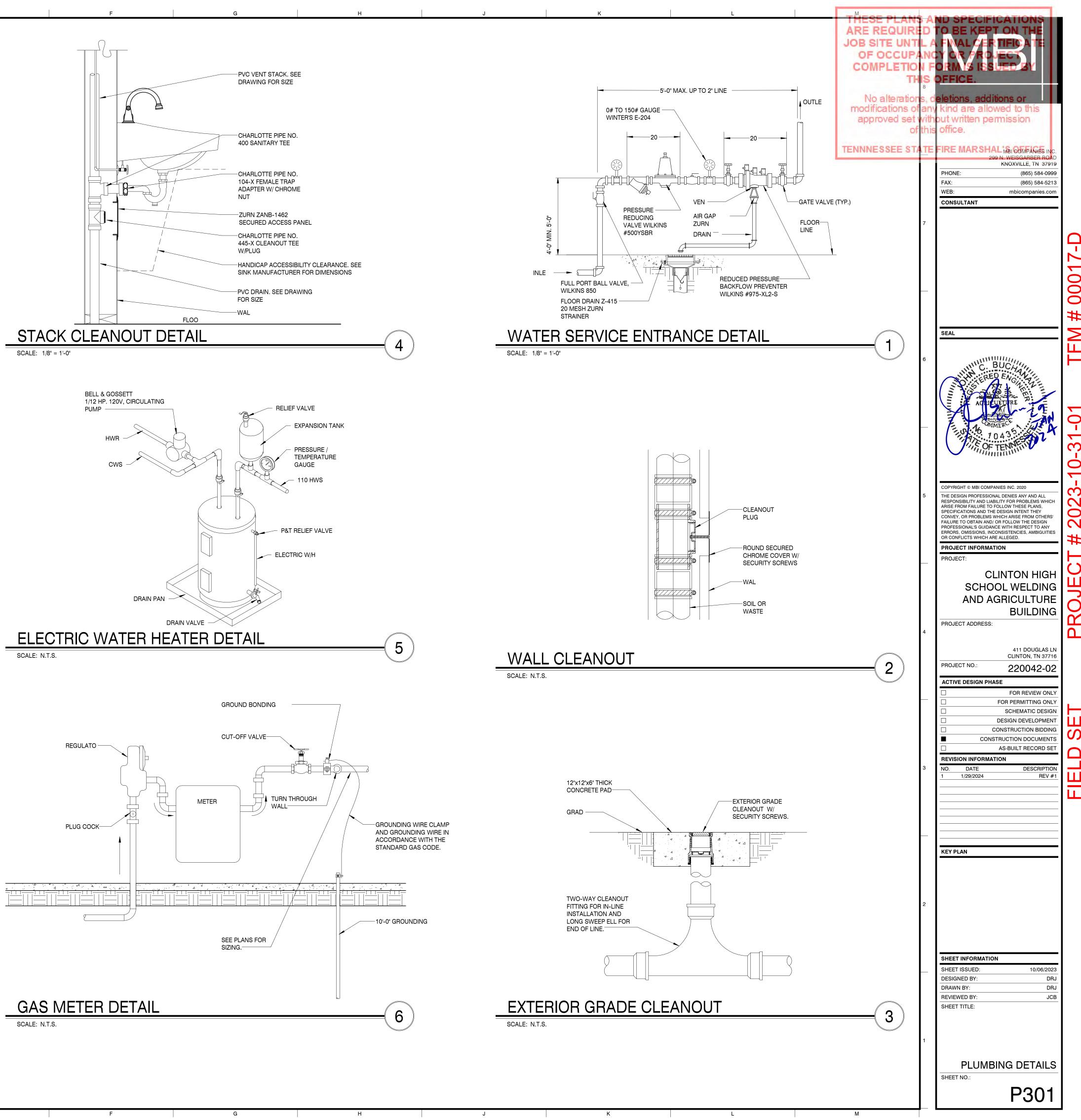
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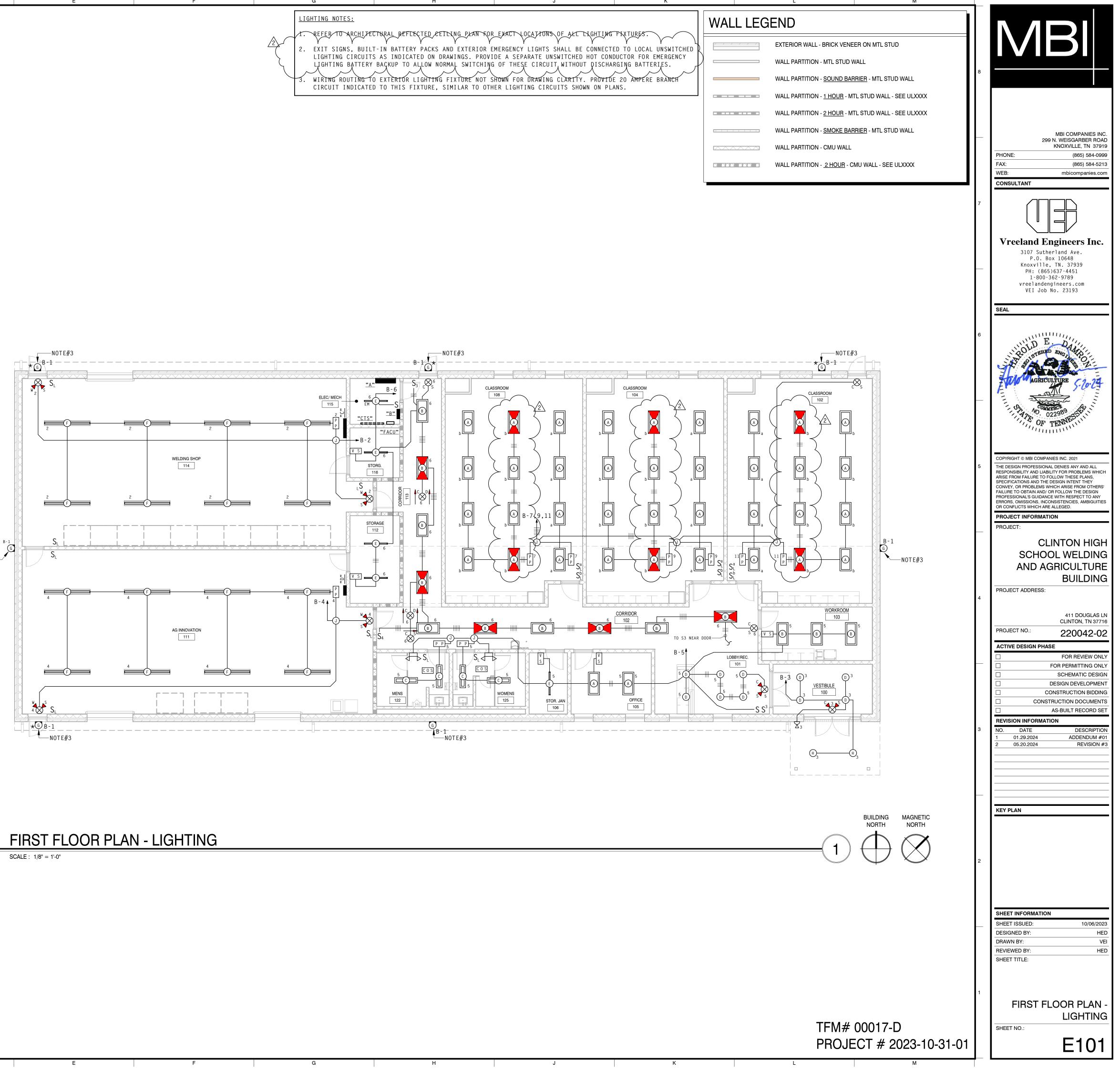


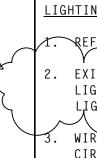
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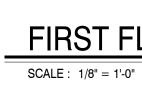


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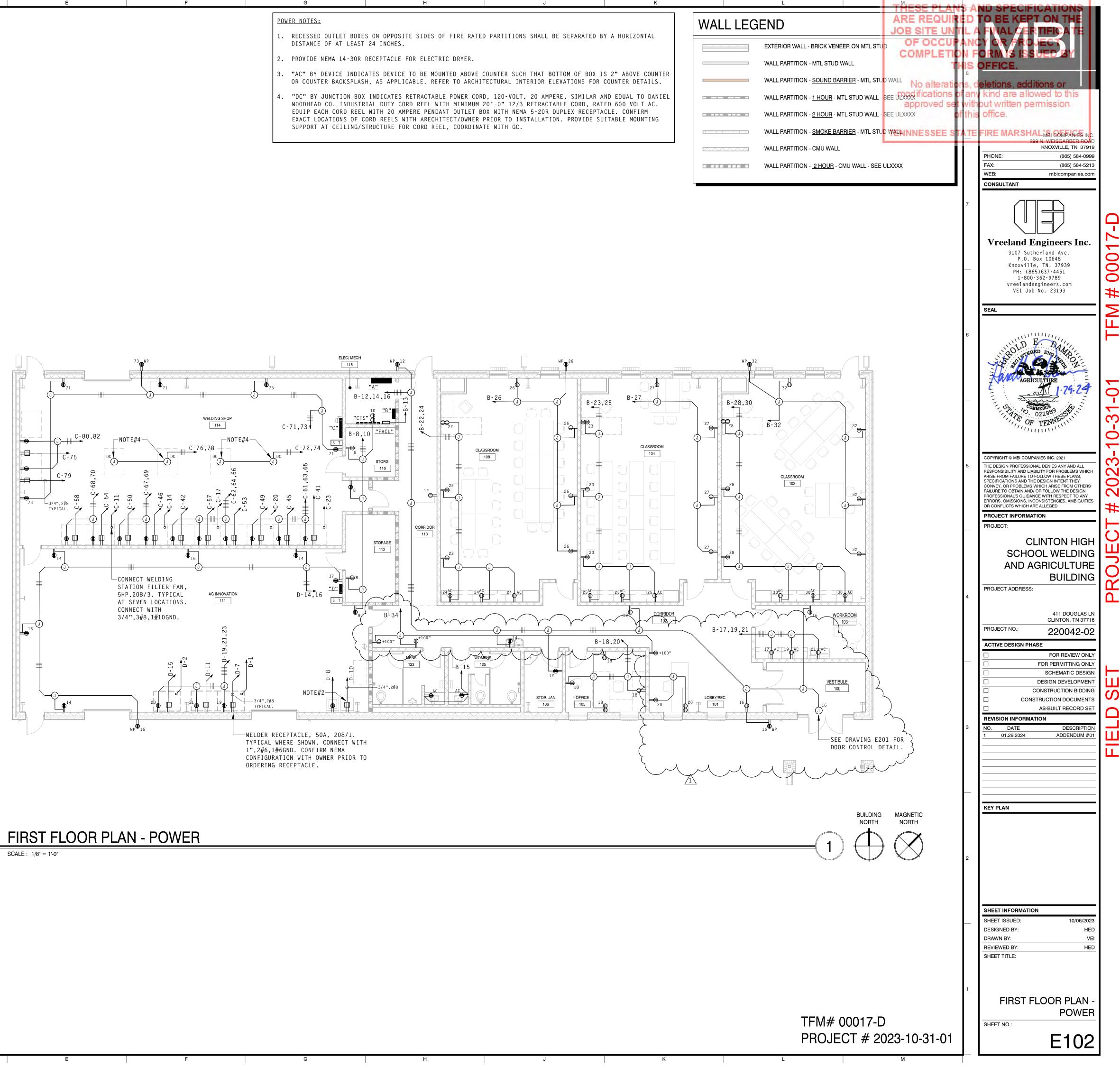
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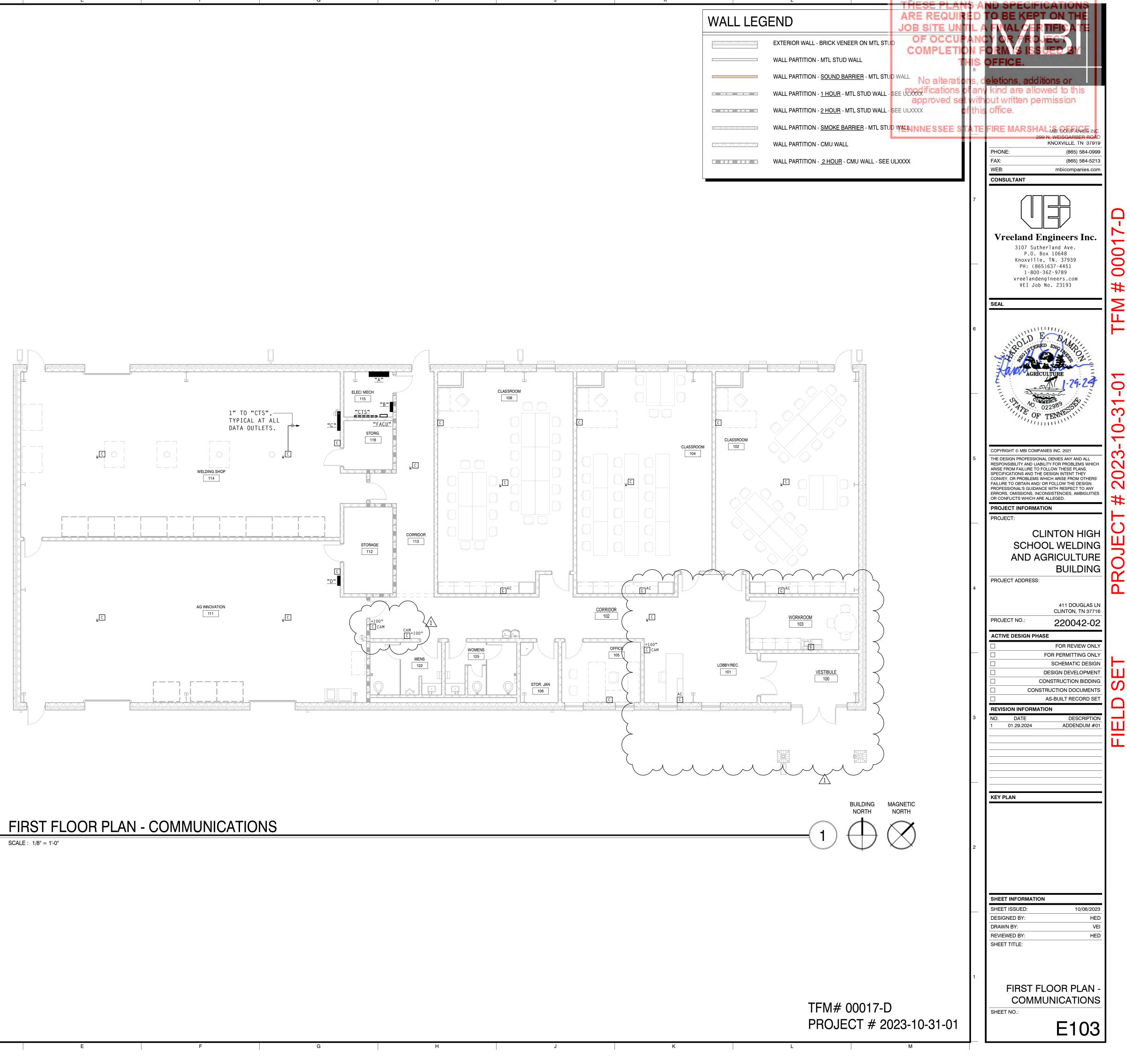
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		POWER NOTES:					
		1. RECESSED OUTLET B DISTANCE OF AT LE		E SIDES OF FIRE RAT	TED PARTITIONS S	SHALL BE SEPARATED) BY A HOI
		2. PROVIDE NEMA 14-3	OR RECEPTACLE FO	DR ELECTRIC DRYER.			
		3. "AC" BY DEVICE IN OR COUNTER BACKSP		FO BE MOUNTED ABOVE ABLE. REFER TO ARCE			
		4. "DC" BY JUNCTION WOODHEAD CO. INDU		ETRACTABLE POWER CO D REEL WITH MINIMUN			



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



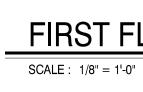
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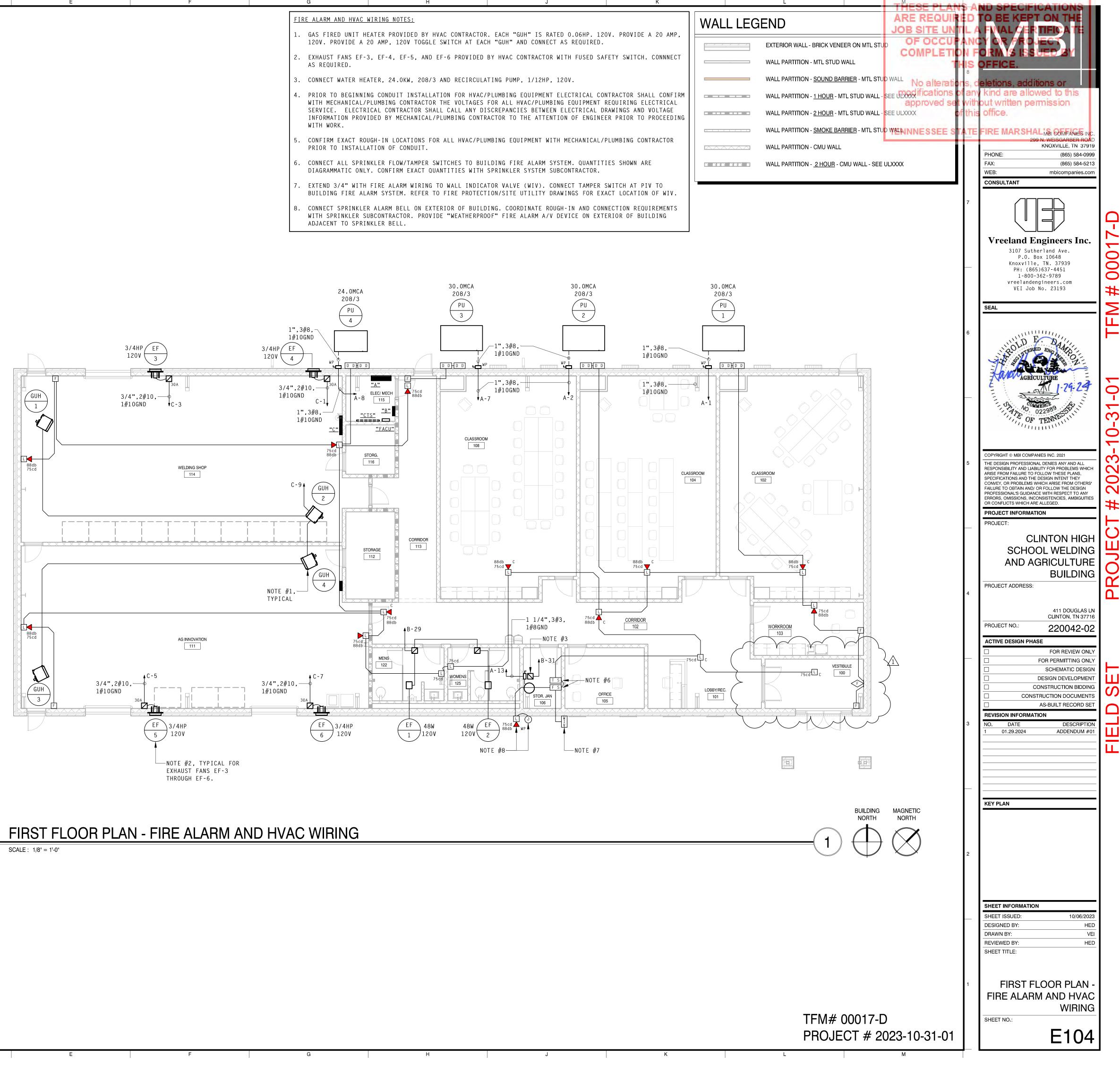
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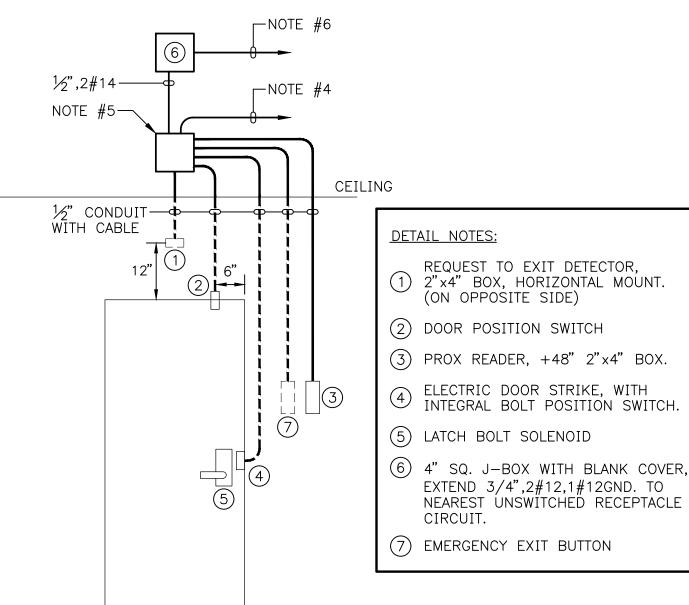
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		<u>FI</u> F	RE ALARM AND HVAC	WIRING NOTES:			
		1.			BY HVAC CONTRACTOR DGGLE SWITCH AT EAC		ATED 0.06HP. 120V. PRC CT AS REQUIRED.
		2.	EXHAUST FANS EF- AS REQUIRED.	3, EF-4, EF-5,	AND EF-6 PROVIDED	BY HVAC CONTRACTO	R WITH FUSED SAFETY SW
		3.	CONNECT WATER HE	ATER, 24.0KW, 2	208/3 AND RECIRCULA	TING PUMP, 1/12HP	, 120V.
		4.	WITH MECHANICAL/ SERVICE. ELECTR	PLUMBING CONTRA ICAL CONTRACTOR	ACTOR THE VOLTAGES R SHALL CALL ANY DI	FOR ALL HVAC/PLUM SCREPANCIES BETWE	T ELECTRICAL CONTRACTO BING EQUIPMENT REQUIRI EN ELECTRICAL DRAWINGS NTION OF ENGINEER PRIC
		5.	CONFIRM EXACT RO PRIOR TO INSTALL			IMBING EQUIPMENT W	ITH MECHANICAL/PLUMBIN
		6.			PER SWITCHES TO BUI CT QUANTITIES WITH		SYSTEM. QUANTITIES SHC SUBCONTRACTOR.
		7.					CONNECT TAMPER SWITCH DRAWINGS FOR EXACT LOC
		8.		UBCONTRACTOR. F			OUGH-IN AND CONNECTION V DEVICE ON EXTERIOR C
		L					



					1			TING FIXTUR	E SCHE	EDULE		_		LEGEND
-			INATIO	N 		IOUNT	ING WALL							
		LUMENS	ATURE (*K)				OVE FINISHED	DESCRIPTION: SHIELDING, TYPE MATERIALS,		ACTURER'S UCT ITEM	* EQUAL PRODUCT PERMITTED	REMARKS	SYMBOL	DESCRIPTION MANUAL MOTOR STARTER TO CONTROL MOTOR INDICATED, SAME MOUNTING HEIGHT AS WALL SWITCH WHERE STARTER IS WALL MOUNTED. ''2P'' BY
		ED LUI	TEMPER	A CRI	T ENGTH		ABOVE OR GR/	FINISH, MOUNTING						STARTER INDICATES TWO POLE STARTER TO BE PROVIDED FOR 208–VOLT, SINGLE–PHASE EQUIPMENT.
	ATTS	ELIVER	- NOLC	MINIMUN	ENDAN	JRFACE	HEIGHT FLOOR (-		FUSED DISCONNECT SWITCH, HEAVY DUTY ''HP'' RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.
	≥ 36.7		ت 3500		N I				COMPANY	CATALOG NO.	YES NO		F	FIRE ALARM MANUAL PULL STATION, TOP OF BOX 48" AFF.
	.00.7	4000	3500	80	_			2X4, FLAT PANEL	LITHONIA	CPX 2X4 4000LM 80CRI 35K A12 MIN10 ZT MVOLT	•		Ĺ	WALL MOUNTED FIRE ALARM VISUAL STROBE UNIT, CANDELA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX FOR STROBE SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. "WG" BY STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
в	24.6	3180	3500	80	-	•		2X4, FLAT PANEL	LITHONIA	CPX 2X4 3000LM 80CRI	•	PROVIDE BATTERY BACKUP, WHERE	н	CEILING MOUNTED FIRE ALARM HEAT DETECTOR.
										35K A12 MIN10 ZT MVOLT E10WLCP		SHOWN ON PLANS.	c L	FIRE ALARM VISUAL STROBE UNIT, CANDELA RATING AS NOTED ON DRAWINGS, "C" INDICATES STROBE UNIT TO BE CEILING MOUNTED. "WG" BY DEVICE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
С	29.3	3251	3500	80	_	•		1X4, FLANGED, FLAT PANEL	LITHONIA	CPX 1X4 3200LM 80CRI 35K A12 MIN10 ZT MVOLT DGA14	•		C ⊂	FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS, "C" INDICATES SPEAKER/STROBE UNIT TO BE CEILING MOUNTED. "WG" BY DEVICE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD. WALL MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA
D	29.5	3077	3500	80	_	•		6'' DOWNLIGHT	GOTHAM	EVO6 35/30 AR LSS WD MVOLT GZ10	•			AND DBA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. ''WG'' BY SPEAKER/STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
E	26.5	3000	3500	80	-	•		4FT., LENSED STRIP	LITHONIA	CLX L48 3000LM SEF	•	PROVIDE BATTERY BACKUP, WHERE		WALL MOUNTED FIRE ALARM REMOTE ANNUNCIATOR PANEL, TOP 54" AFF.
										FDL WD MVOLT GZ10 35K 80CRI		NOTED WITH "EM" ON PLANS.	"FACU"	WALL MOUNTED FIRE ALARM CENTRAL CONTROL UNIT, TOP 6'-0'' AFF. FIRE ALARM DUCT SMOKE DETECTOR, FURNISHED BY ELECTRICAL, INSTALLED
F	81	7300	3500	80	-	•		8FT., LENSED STRIP	LITHONIA	E10WLCP PTNSL 8' WD MVOLT OSR2	•		D	DUCTWORK BY MECHANICAL, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL, CONNECT TO SHUT UNIT DOWN UPON ALARM. FURNISH AND INSTALL ''LED'' REMOTE STATUS INDICATOR, FIELD VERIFY LOCATION.
										35K 80CRI DNA			WIV	SPRINKLER SYSTEM WALL MOUNTED INDICATOR VALVE, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.
G	51	6615	4000	70	_	•		WALL PACK, FULL CUT-OFF	LITHONIA	ARC2 LED P5 40K MVOLT E8WC DDBXD	•	PROVIDE BATTERY BACKUP, WHERE SHOWN ON PLANS.	TS	SPRINKLER SYSTEM TAMPER SWITCH, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.
H	29.5	3077	4000	80	-	•		6'' DOWNLIGHT, EXTERIOR	GOTHAM	EVO6 40/30 AR LSS WD	•		FS	SPRINKLER SYSTEM FLOW SWITCH, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.
										MVOLT GZ10			GUH	GAS FIRED UNIT HEATER, KW AND VOLTAGE AS INDICATED ON PLANS, PROVIDE DISCONNECT SWITCH AND CONNECT.
					RODUCT Y OF SI			FIED WILL BE ACCEPTED. THE DE	SIGN PROFESSIONA	AL SHALL HAVE SC	DLE JUDGEN	MENT		DATA/VOICE OUTLET, PROVIDE 4 11/16" SQUARE BOX WITH SINGLE-GANG DEVICE RING AND BLANK COVERPLATE. EXTEND EMPTY 1" CONDUIT FROM
													w C	OUTLET BOX TO POINT ABOVE ACCESSIBLE LAY-IN CEILING AND TERMINATE WITH BUSHING. LOCATE OUTLET BOX 3" ABOVE BACKSPLASH AT WORK



NOTES:

SCHEDULE 23193(AS)

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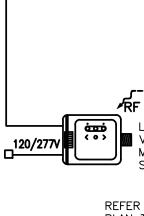
E201 A.L.S.

Α

- I. CONTRACTOR TO PROVIDE ALL CONDUIT, LOW VOLTAGE CABLE, AND JUNCTION BOXES NECESSARY FOR ROUGH-IN. MAKE FINAL CONNECTIONS. COORDINATE WITH DOOR HARDWARE SUPPLIER. 2. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- 3. ALL DOOR HARDWARE AND ELECTRONIC EQUIPMENT IS PROVIDED BY OTHERS. 4. 3/4" CONDUIT WITH CABLE; EXTEND TO DOOR INTERFACE IN COMM. ROOM ..
- 5. 4" SQ. JUNCTION BOX TO BE LOCATED ABOVE ADJACENT LAY-IN (ACCESSIBLE)
- CEILING OR FLUSH IN WALL OR CEILING. DRAWING SYMBOL: DC
- 6. 1/2",2#12,1#12G; CONNECT TO NEAREST 120V UNSWITCHED CIRCUIT. 7. DETAIL IS ILLUSTRATED FROM ENTRY SIDE, AS INDICATED BY SOLID LINES.
- DASHED LINES INDICATE WORK ON SECURED AREA SIDE.
- 8. ANY LOSS OF POWER SHALL AUTOMATICALLY UNLOCK DOOR.

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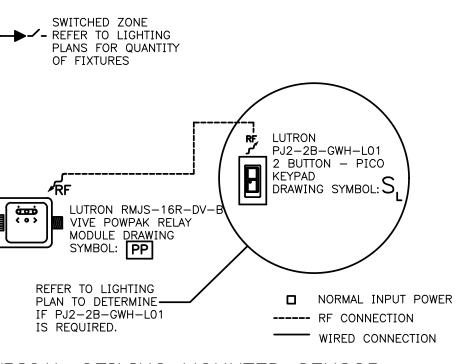
DOOR CONTROL DETAIL NO SCALE



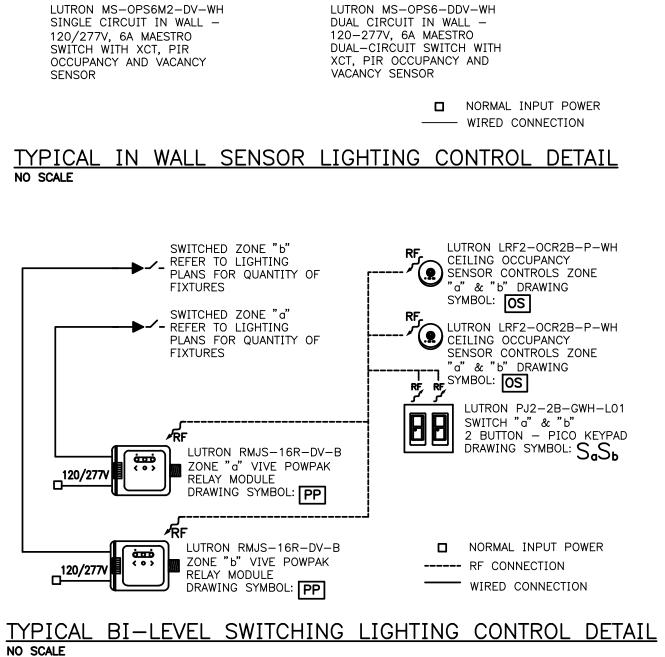


<u>NOTE</u>:

I. DETAIL ABOVE DEPICTS "WIRELESS" ARRANGEMENT FOR SENSORS AND SWITCHES. ALTERNATE SYSTEMS UTILIZING LOW VOLTAGE WIRING FROM POWER PACKS TO CEILING SENSORS AND SWITCHES SHALL BE ACCEPTABLE FOR USE PROVIDED THAT FUNCTIONALITY OF SPACE MATCHES WORK INDICATED ON THIS DETAIL AND SHOWN ON DRAWINGS.



TYPICAL CEILING MOUNTED SENSOR LIGHTING CONTROL DETAIL



DEDICATED FOR CAMERA SYSTEM USE.

TOP 6-FEET ABOVE FINISHED FLOOR.

SWITCHED ZONE

OF FIXTURES

OS

DRAWING SYMBOL:

ഥ 120/277V

NOTE:

G

PLANS FOR QUANTITY

"CTS" ⊏⊒⊒⊐

DRAWING SYMBOL:

LUTRON MS-OPS6-DDV-WH

1207277

SWITCHED ZONE "a"

PLANS FOR QUANTITY

SWITCHED ZONE "b"

PLANS FOR QUANTITY

J

OF FIXTURES

OF FIXTURES

os _D

COMMUNICATION TERMINAL SPACE, 3/4" PLYWOOD BOLTED TO WALL,

1. DETAIL ABOVE DEPICTS "WIRELESS" ARRANGEMENT FOR SENSORS AND SWITCHES. ALTERNATE SYSTEMS UTILIZING LOW VOLTAGE WIRING FROM POWER PACKS TO CEILING SENSORS AND SWITCHES SHALL BE ACCEPTABLE FOR USE PROVIDED THAT FUNCTIONALITY OF SPACE MATCHES WORK INDICATED ON THIS DETAIL AND SHOWN ON DRAWINGS.

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	<u>к</u>				ID SPECIEICATIONS	
		ARE REQU	IRE	DI	O BE KEPT ON THE	
		JOB SITE U	NTI	LA	FNAL CERTIFICATE	
	LEGEND	OF OCCI COMPLET			DRM IS ISSUED BY	
SYMBOL	DESCRIPTION		TH	S (DFFICE.	
		No altera	tion	s, de	eletions, additions or	
[▶] ⊛ [*] ₃	LED LIGHTING FIXTURE; "A" REFERS TO DESIGNATION IN THE LIGHT FIXTURE SCHEDULE; "b" REFERS TO SWITCH CONTROL AND "3" REFE TO CIRCUIT NUMBER. ASTERISK (*) INDICATES LUMINAIRE TO BE EG					
	WITH BATTERY PACK FOR EGRESS LIGHTING.				office.	
a B	LED LIGHTING FIXTURE; "B" REFERS TO DESIGNATION IN THE LIGHT FIXTURE SCHEDULE; "a" REFERS TO SWITCH CONTROL; AND "2" RE	ING FERSINTOLESSEE	STA	TE		
2		·····			299 N. WEISGARBER ROAD KNOXVILLE, TN 37919	
	LED LIGHTING FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK T PROVIDE LIGHTING UPON LOSS OF NORMAL POWER. PROVIDE SEPARA UNSWITCHED ENERGIZED CONDUCTOR TO BATTERY PACK IN ORDER T	ATE .	$\langle \rangle$		PHONE: (865) 584-0999 FAX: (865) 584-5213	
	NORMAL SWITCHING OF LIGHTING FIXTURES WITHOUT DISCHARGING E BATTERY PACK SHALL PROVIDE POWER FOR A DURATION OF NOT LES	BATTERY.	$\left\{ \right\}$		WEB: mbicompanies.com CONSULTANT	
	90 MINUTES IN ACCORDANCE WITH SECTION 2702, IBC1006.3.		5			
	WALL-MOUNTED TWIN-HEAD EMERGENCY LIGHTING FIXTURE WITH BU BATTERY PACK, CONNECT TO UNSWITCHED LIGHTING CIRCUIT. MOUNT	7'-6" AFF	2	1		
	EXCEPT NOT LESS THAN 6" BELOW CEILING. BATTERY PACK SHALL P POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES IN ACCOR WITH SECTION 2702, IBC1006.3.		5			
$\frac{1}{1}$	WALL SWITCH; SINGLE POLE UNLESS NOTED 3- OR 4-WAY; "P" INE				Vreeland Engineers Inc.	17
P WP S	EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON; W.I WEATHERPROOF, "K" INDICATES KEY OPERATED SWITCH; +48"/- AB EXCEPT IN MASONRY WALLS WHERE HEIGHT SHALL BE ADJUSTED TO	OVE FLOOR			3107 Sutherland Ave. P.O. Box 10648 Knoxville, TN. 37939	
3 K 4	EDGE OCCUR AT A MASONRY JOINT. PROVIDE NEUTRAL CONDUCTOR I ADDITION TO LINE AND SWITCHED CONDUCTORS.				PH: (865)637-4451 1-800-362-9789	5
	WALL MOUNTED DIMMER TO CONTROL LIGHTING FIXTURES INDICATED,	,			vreelandengineers.com VEI Job No. 23193	‡
	SAME MOUNTING HEIGHT AS REGULAR WALL SWITCH. PROVIDE NEUTR CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.	AL			SEAL	V
~ ~ ~ ~ ~ ~	EXIT SIGN, "W" INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FA		\mathcal{L}			μ
W S C P D	INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON E AS INDICATED ON PLANS. UNIT EQUIPPED WITH BATTERY BACK-UP.	XIT SIGNS	5	6	N'AD E. DALL	╽┣━
СРБ	TO UNSWITCHED, "HOT", LIGHTING CIRCUIT. BATTERY PACK SHALL P POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES IN ACCOR	ROVIDE	\sum		ROL STERED ENC. MID	
	WITH SECTION 2702, IBC1006.3. EXIT SIGN WITH BUILT-IN TWIN HEAD EMERGENCY LIGHT, "W" INDI	CATES	$\left\{ \right\}$		AGRICULTURE	
W S	WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUN	S SINGLE ITED.	\sum		E 1.29.24	5
	PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLUNIT EQUIPPED WITH BATTERY BACK-UP. CONNECT TO UNSWITCHED, LIGHTING CIRCUIT. BATTERY PACK SHALL PROVIDE POWER FOR A DU	''НОТ'',	$\left\{ \right\}$	—	NO 022989 CSU	~
	OF NOT LESS THAN 90 MINUTES IN ACCORDANCE WITH SECTION 270 IBC1006.3.		3		OF TENNESSI	C
$\overline{1}$	DUPLEX PLUG RECEPTACLE; 120–VOLTS; 20–AMPERES; MOUNT 3" A BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" AFF EL					C
\	UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS REQUIRED BY CODE.				COPYRIGHT © MBI COMPANIES INC. 2021	
₽	SPECIAL PURPOSE 208-VOLT, SINGLE-PHASE RECEPTACLE, MOUNT +			5	THE DESIGN PROFESSIONAL DENIES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS,	でつ
	UNLESS NOTED OTHERWISE, SEE PLANS FOR ADDITIONAL INFORMATIC				ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN	Ċ
	SPECIAL PURPOSE 208-VOLT, THREE-PHASE RECEPTACLE, MOUNT +1 UNLESS NOTED OTHERWISE, SEE PLANS FOR ADDITIONAL INFORMATIC				PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.	つ 年
æ	QUADRAPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES. MOUNT 3 BACKSPLASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWH	HERE			PROJECT INFORMATION	
\$ \$	UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS REQUIRED BY CODE.	S NOT				Ċ
	DUPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES, SHADED CENT EQUIPPED WITH BUILT-IN GROUND FAULT CIRCUIT INTERRUPTER, MO				CLINTON HIGH SCHOOL WELDING	L
€=	ABOVE BACKSPLASH AT WORK COUNTERS/LAVATORIES AND +18" AFF UNLESS NOTED TO A DIFFERENT HEIGHT. PROVIDE WEATHER RESISTA	ELSEWHERE			AND AGRICULTURE	C
	AND WEATHERPROOF "EXTRA DUTY WHILE IN USE" COVER WHERE LOO OUTDOORS. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.				BUILDING PROJECT ADDRESS:	
	PANELBOARD, RECESSED OR SURFACE MOUNTED AS INDICATED ON DI			4	PROJECT ADDRESS:	٥
-	TOP 6-FEET ABOVE FINISHED FLOOR ADJUSTED TO OCCUR AT A MAS JOINT, SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED.	SONRY			411 DOUGLAS LN CLINTON, TN 37716	
	CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD A, CIRCUITS AND 5. CROSS LINES INDICATE #12 AWG PHASE AND NEUTRAL CONE				PROJECT NO.: 220042-02	
A−1,3,5 _/////►	WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#1	RUNS 12G. EACH			ACTIVE DESIGN PHASE	
	20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE N CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PER PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUI	MITTED.			FOR REVIEW ONLY FOR PERMITTING ONLY	
o	CONDUIT IN THE FLOOR CONSTRUCTION OR UNDERGROUND SHOWN T				SCHEMATIC DESIGN DESIGN DEVELOPMENT	
•	CONDUIT IN THE WALL OR CEILING CONSTRUCTION SHOWN TURNING				CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS	Ū
\bigcirc	JUNCTION BOX, SIZE AND USE AS REQUIRED; COVERPLATE SHALL OV				AS-BUILT RECORD SET	C
Ŭ	THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALE OCCUPANCY/VACANCY SENSOR FOR LIGHTING CONTROL, CEILING OR			3	NO. DATE DESCRIPTION 1 01.29.2024 ADDENDUM #01	
ଭ	MOUNTED AS INDICATED ON PLANS. MOUNT WALL-MOUNTED SENSOR HEIGHT AS WALL SWITCH (+48" ABOVE FINISHED FLOOR). "D' BY S	AT SAME ENSOR ON				
	PLANS INDICATES DUAL RELAY TYPE SENSOR ALLOWING INDEPENDENT OF TWO SEPARATE LIGHTING LOADS. PROVIDE NEUTRAL CONDUCTOR					
PP	TO LINE AND SWITCHED CONDUCTORS. POWER PACK ROOM CONTROLLER FOR CEILING MOUNTED OCCUPANCY	ŚENSOR				
	SYSTEM, SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION			—		
SL	LOW-VOLTAGE WALL SWITCH, SAME MOUNTING HEIGHT AS REGULAR V SWITCH. REFER TO DETAIL THIS SHEET.	VALL			KEY PLAN	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	WALL MOUNTED EXTERIOR LED EMERGENCY LIGHTING UNIT FULL CUT "DARK SKY" COMPLIENT TYPE, WITH BUILT-IN NICKEL CADMIUM BA		2			
Z	EMERGENCY OPERATION ONLY UPON LOSS OF NORMAL UTILITY POWE LOCATION LISTED, WITH INTERNAL BATTERY HEATER. VERIFY FINISH	R, WET	$\left\{ \right\}$			
	MOUNTING HEIGHT WITH ARCHITECT. UNIT SHALL BE SIMILAR AND E MULE LIGHTING MERU-LED-EM-FIN-IH. UNIT SHALL HAVE TWO LED	QUAL TO LAMPS	\langle	2		
	FOR REDUNDANCY, TOTAL 11 WATTS. BATTERY PACK SHALL PROVIDE FOR A DURATION OF NOT LESS THAN 90 MINUTES IN ACCORDANCE SECTION 2702, IBC1006.3.		$\left\{ \right.$			
∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧	SHUNT-TRIP OPERATOR FOR EMERGENCY SHUT DOWN OF PANELBOAR	RD.				
					SHEET INFORMATION	
				_	SHEET ISSUED:10/06/2023DESIGNED BY:HED	
					DRAWN BY: VEI REVIEWED BY: HED	
					REVIEWED BY: HED SHEET TITLE:	
				1		
					LEGEND, SCHEDULES, DETAILS	
					DETAILS SHEET NO.:	
					E201	
	K L	М		[1

A		B C D	
	FIF	CTRICAL SPECIFICATIONS:	
	1.	SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL T ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.	O
	2.	CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STAT CODES.	Ε,
	3.	POWER SERVICE: POWER SERVICE SHALL BE TAKEN UNDERGROUND FROM A NEW UTILITY COMPANY PAD MOUNTED TRAN 120/208-VOLTS, 3-PHASE, 4-WIRE, WYE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. CAREFULLY COORDINA ARRANGEMENT, METERING, ETC., WITH UTILITY COMPANY PRIOR TO COMMENCING WITH WORK. INCLUDE ALL UTILITY CO CONSTRUCTION'' CHARGES IN BID PRICE.	١T
		600-VOLT WIRING: EXTERIOR UNDERGROUND CONDUIT RUNS OR CONDUIT RUNS IN OR BELOW CONCRETE FLOOR SLAB SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT WITH GALVANIZED RIGID STEEL ELBOWS WHERE CONDUITS TURN OF FLOOR SLAB. NO PVC CONDUIT WILL BE PERMITTED ABOVE FLOOR LEVEL INSIDE THE BUILDING. EXPOSED CONDUIT THE BUILDING SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT. FINAL CONNECTIONS TO HVAC MADE USING LIQUID-TIGHT FLEXIBLE CONDUIT (SEALTITE). OTHERWISE, ALL OVERHEAD WIRING INSIDE THE BUILDING SHALL BE INSTALLED IN ELECTRIC-METALLIC TUBING (EMT). METAL CLAD (MC) CABLE SHALL BE PERMISSIBLE FOR FIN LAY-IN LIGHTING FIXTURES FROM LOCAL JUNCTION BOXES IN INDIVIDUAL LENGTHS NOT EXCEEDING 6'. ALL CONDUCT SHALL BE COPPER WITH "THHN/THWN" INSULATION. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NAT REQUIREMENTS. WIRING SHALL BE INSTALLED CONCEALED TO THE MAXIMUM EXTENT PRACTICABLE. ALL WIRING SHALL B AND WORKMANLIKE MANNER, PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL ELEMENTS. NO OVERHEAD DIAGON PERMITTED.	
		PANELBOARDS: FURNISH AND INSTALL NEW PANELBOARDS WHERE INDICATED ON DRAWINGS. PANELBOARDS SHALL BE EATON POW-R-LINE PANELBOARDS, RATED 120/208-VOLTS, 3-PHASE, 4-WIRE, WYE. SIMILAR AND EQUAL EQUIPMENT B OR GENERAL ELECTRIC WILL BE APPROVED FOR USE. AIC RATING OF PANELBOARD SHALL BE AS INDICATED ON DRAWI BUSING SHALL BE COPPER. UTILIZE MOLDED CASE, BOLT-ON TYPE CIRCUIT BREAKERS. THE USE OF "PLUG-IN" STY SHALL NOT BE PERMISSIBLE. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT DIRECTORY INDICATING LOADS ENGRAVED NAMEPLATE ON EACH PANELBOARD INDICATING PANELBOARD DESIGNATION, VOLTAGE, AND FEEDER SERVICE OF	3Y [N [Le
		SAFETY SWITCHES: FURNISH AND INSTALL HEAVY-DUTY FUSIBLE TYPE SAFETY SWITCHES WHERE INDICATED ON DRAWIN SHALL BE HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK, WITH ARC SHIELDS. SAFETY SWITCHES LOCATED OUTSIDE ENCLOSURES. SAFETY SWITCHES LOCATED INSIDE SHALL HAVE NEMA 1 ENCLOSURES. WHERE SAFETY SWITCHES ARE RE INSTALLED AWAY FROM WALLS, CONTRACTOR SHALL PROVIDE A SUITABLE SUPPORT TO ALLOW THE SWITCH TO BE IN A ABOVE FLOOR OR FINISHED GRADE. WHERE NECESSARY, PROVIDE A STEEL FRAME ATTACHED TO FLOOR/GROUND. SWIT ON EQUIPMENT WHERE SPECIFIC APPROVAL IS PROVIDED BY EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN LO SWITCHES WITH HVAC CONTRACTOR PRIOR TO INSTALLATION. PROVIDE FUSING IN SAFETY SWITCHES TO MATCH MOCP UNIT NAMEPLATE DATA.	QI PO TC DC
		MANUAL MOTOR STARTERS: FURNISH AND INSTALL MANUAL MOTOR STARTERS FOR 120-VOLT EXHAUST FANS AS SHOWN CALLED FOR HEREINAFTER. MANUAL MOTOR STARTERS SHALL BE EQUIPPED WITH MELTING ALLOY THERMAL OVERLOAD R SIMILAR AND EQUAL TO SQUARE D COMPANY 2510 SERIES, CATALOG NO. FF-1P. PROVIDE 2-POLE MANUAL MOTOR ST 208-VOLT, SINGLE-PHASE EQUIPMENT WHERE INDICATED ON DRAWINGS.	RΕ
		LIGHTING FIXTURES: FURNISH AND INSTALL LIGHTING FIXTURES AS SHOWN ON DRAWINGS COMPLETE WITH LAMPS. REFIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. CATALOG NUMBERS INDICATED ON LIGHTING FIXTURE SCHEDULE IN STANDARD OF QUALITY EXPECTED FOR EACH LIGHTING FIXTURE TYPE. SIMILAR AND EQUAL EQUIPMENT BY OTHER MAN ACCEPTABLE FOR USE.	ID
		OCCUPANCY SENSORS: FURNISH AND INSTALL OCCUPANCY SENSORS FOR CONTROL OF LIGHTING WHERE INDICATED ON DETAILS ON DRAWINGS FOR ADDITIONAL INFORMATION.	I
		WIRING DEVICES: FURNISH AND INSTALL WIRING DEVICES (WALL SWITCHES, DUPLEX PLUG RECEPTACLES, GFCI DUPLEX TAMPER-RESISTANT DUPLEX RECEPTACLES, ETC., AS INDICATED ON DRAWINGS). ALL 120-VOLT DEVICES SHALL HAVE A 20-AMPERES. THE USE OF 15-AMPERE RATED DEVICES SHALL NOT BE PERMISSIBLE. COLOR OF DEVICES SHALL BE AS DIRECTED BY ARCHITECT. UTILIZE STAINLESS STEEL COVERPLATES. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION SHALL CONFIRM THAT ALL DEVICES, INCLUDING OCCUPANCY SENSORS, HAVE SAME FINISH.	۱ IV
		COMMUNICATIONS RACEWAY FACILITY: FURNISH AND INSTALL A SYSTEM OF EMPTY CONDUIT AND BOXES FOR COMMUNI IN THE BUILDING. OWNER WILL EMPLOY THE SERVICES OF A SEPARATE LOW-VOLTAGE VENDOR FOR INSTALLATION OF WIRING WITH THE EXCEPTION OF FIRE ALARM SYSTEM. COORDINATE EXACT ROUGH-IN LOCATIONS FOR COMMUNICATIO PRIOR TO ROUGH-IN. PROVIDE A #1/O AWG GROUND FROM EACH COMMUNICATIONS TERMINAL SPACE TO THE MAIN E GROUND IN THE BUILDING. PROVIDE COPPER GROUNDING BAR AT EACH COMMUNICATIONS TERMINAL SPACE TO TERMIN GROUNDING CONDUCTOR.	AL NS
		EXIT SIGNS/EMERGENCY LIGHTING: FURNISH AND INSTALL EXIT SIGNS AND EMERGENCY LIGHTING AS INDICATED ON D SIGNS SHALL BE LED, POLYCARBONATE HOUSING WITH MATTE WHITE FINISH AND GREEN LETTERS. EACH EXIT SIGN SH A MAINTENANCE-FREE, NICKEL-CADMIUM STANDBY BATTERY BACKUP. EXIT SIGNS SHALL BE SIMILAR AND EQUAL TO L LQM-S-W-3-R-MVOLT-FL-N. PROVIDE COMBO EXIT SIGNS/TWIN HEAD EMERGENCY LIGHTS SHERE NOTED ON PLANS, L LHQM-LED-R-M6. TWIN-HEAD EMERGENCY LIGHTING UNITS SHALL BE MATTE WHITE FINISH, THERMOPLASTIC HOUSING, LED LAMPS AND SEALED MAINTENANCE-FREE, NICKEL-CADMIUM BATTERY, SIMILAR AND EQUAL TO LITHONIA NO. ELM2L SIGNS AND EMERGENCY LIGHTING UNITS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOF SHALL BE PROVIDED VIA BUILT-IN BATTERY PACKS IN THE EXTERIOR LIGHTING FIXTURES BEING PROVIDED. SEE LIGH SCHEDULE FOR ADDITIONAL INFORMATION.	IT _I _N _L
		FIRE ALARM SYSTEM: FURNISH AND INSTALL A COMPLETE ADDRESSABLE VOICE EVACUATION STYLE FIRE ALARM SYSTEM EQUIPMENT SPECIFIED HEREIN IS THAT BY JOHNSON CONTROLS (SIMPLEX). SIMILAR AND EQUAL EQUIPMENT BY OTHEI BE ACCEPTABLE FOR USE.	
		A. NEW CONTROL PANEL SHALL BE ANALOG ADDRESSABLE WITH BATTERY SUPPLY, INCLUDING CHARGER. USE SIMPLEX PROVIDE VOICE EVAC PANEL WITH NECESSARY AMPLIFIER RATING TO SERVE SPEAKERS IN BUILDING. VISIBLE ALAR PRE-RECORDED VOICE ANNOUNCEMENT SHALL BE PROVIDED THROUGHOUT BUILDING UPON ALARM CONDITION IN AG 72, NFPA 101, AND IBC.	M
		 B. REMOTE ANNUNCIATOR SHALL BE LCD, 80-CHARACTER, SIMPLEXGRINNELL 4603-9101. C. MANUAL STATIONS SHALL BE ADDRESSABLE SIMPLEXGRINNELL MODEL NO. 4099-9001. D. CEILING-MOUNTED SMOKE DETECTORS SHALL BE ANALOG, INTELLIGENT, PHOTOELECTRIC TYPE, SIMPLEX GRINNELL N E. HEAT DETECTORS SHALL BE COMBINATION RATE-OF-RISE, FIXED TEMPERATURE TYPE. F. BASIS FOR INTELLIGENT DETECTOR SHALL BE SIMPLEX GRINNELL 4098-9792. 	۸C
		G. DUCT DETECTORS SHALL BE PHOTOELECTRIC, ANALOG, INTELLIGENT TYPE, SIMPLEX GRINNELL 4098-9753. PROVID HOUSINGS WHERE LOCATED OUTDOORS. PROVIDE REMOTE TEST SWITCH FOR EACH DUCT DETECTOR. EQUIP EACH NECESSARY SAMPLING TUBES. DUCT DETECTORS WILL BE FURNISHED BY ELECTRICAL TRADE, INSTALLED IN DUCTW TRADE, AND CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL TRADE. ARRANGE FOR UNIT SHUTDOWN WITH MEC REQUIRED. PROVIDE ADDRESSABLE MONITOR AND CONTROL MODULES AS REQUIRED.	D OI
		H. PROVIDE FLASHING STROBE LIGHTS AS INDICATED ON DRAWINGS. STROBE LIGHTS SHALL BE SIMPLEX GRINNELL N CANDELA RATING AS NOTED ON DRAWINGS.	1C
		I. CEILING-MOUNTED COMBINATION AUDIO/VISUAL DEVICES SHALL BE PROVIDED WHERE SHOWN IN THE OFFICE AREA SIMPLEX GRINNELL 4903 SERIES WITH CANDELA RATING AS NOTED ON DRAWINGS WITH 25-VOLT RMS SPEAKERS. IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. COLOR CODE ALL CONDUCTORS. ALL INSTALLED IN METALLIC RACEWAY SYSTEM, MINIMUM SIZE 3/4". PLENUM-RATED "OPEN" CABLING SHALL BE PERM ACCESSIBLE LAY-IN CEILINGS PROVIDED THAT NEC REQUIRED SUPPORTING MEANS FOR ALL CABLING IS PROVIDED. WORK, PROVIDE COMPLETE TESTING OF SYSTEM. INCLUDE SUCCESSFUL TEST REPORTS AS PART OF PROJECT CLOSE	ן - 115 A
		GROUNDING: PROVIDE GROUNDING OF NEW ELECTRICAL SERVICE AS DESCRIBED HEREINAFTER. PROVIDE THREE DRIVEN 3 COPPERWELD GROUND RODS. LOCATE GROUND RODS MINIMUM 15' APART FROM EACH OTHER. PROVIDE A #3/0 AWG BA CONDUCTOR BONDED TO GROUND RODS AND EXTENDED TO MAIN DISTRIBUTION PANEL AND BONDED TO GROUND BUS/SY BONDING CONNECTIONS TO GROUND RODS SHALL BE BY CADWELD PROCESS. ALSO, EXTEND A #3/0 AWG COPPER GROU FROM MAIN ELECTRICAL SERVICE GROUND AND BOND MAIN METALLIC COLD WATER PIPE AT POINT WHERE IT ENTERS BUIL GROUNDING OF REBAR IN STRUCTURAL STEEL FOOTING TO MAIN ELECTRICAL SERVICE GROUND IN ACCORDANCE WITH NAT REQUIREMENTS. GROUND MAIN TELECOMMUNICATIONS SPACE AS NOTED ELSEWHERE IN THESE SPECIFICATIONS. PROVID EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUIT WIRING RUNS. SEPARATE GROUNDING CONDUC INDICATED ON DRAWINGS BUT SHALL BE REQUIRED. GROUND BY DIRECT CONNECTION ALL INTERIOR PIPING SYSTEMS. G LIGHTING FIXTURES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.	RI S IN L D I C E T
		SURGE PROTECTIVE DEVICE: AT PANELS NOTED IN DRAWINGS, PROVIDE A SURGE PROTECTIVE DEVICE(SPD). SPD SHALL U.L. 1449 AND 1283, ANSI/IEEE C62.41-1991 AND C62.45-1992, NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION 2007, AND NFPA 70. SPD MANUFACTURER SHALL BE ISO 9000 CERTIFIED. SPD SHALL INCORPORATE 200KA 8/20 MIC PROTECTION PER PHASE.	Ν
		FIRESTOPPING: ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING OF ALL CONDUIT PENETRATIONS OF RATED WA PER DETAILS. REFER TO ARCHITECTURAL DRAWINGS.	LL
	17	SUBMITTALS: PROVIDE ELECTRICAL SUBMITTALS AS CALLED FOR HEREINAFTER. SUBMITTALS SHALL INCLUDE MANUFACTUR	P۲

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18. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR AFTER DATE OF FINAL

WIRING DEVICES, AND SWITCHGEAR.

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ACCEPTANCE.

THE INSTALLATION OF

, AND NATIONAL

SFORMER AT TE POWER SERVICE MPANY ''AID TO

INSIDE BUILDING JP THROUGH CONCRETE ON THE EXTERIOR OF EQUIPMENT SHALL BE IN DRY LOCATIONS NAL CONNECTIONS TO DRS ON THE PROJECT IONAL ELECTRICAL CODE INSTALLED IN A NEAT IAL RUNS WILL BE

SIMILAR AND EQUAL TO Y SQUARE D, SIEMENS, NGS. ALL PANELBOARD E CIRCUIT BREAKERS SERVED. PROVIDE RIGINATION LOCATION.

GS. SAFETY SWITCHES SHALL HAVE NEMA 3R QUIRED TO BE POSITION OF 4-1/2' CHES MAY BE MOUNTED CATIONS OF SAFETY RATING INDICATED ON

ON DRAWINGS AND AS ELAY. UNIT SHALL BE FARTERS TO SERVE

FER TO LIGHTING DICATE THE MINIMUM IFACTURERS WILL BE

DRAWINGS., REFER TO

RECEPTACLES, MINIMUM RATING OF IVORY, WHITE, OR GRAY TION. CONTRACTOR

CATIONS SYSTEMS USE LL LOW-VOLTAGE NS SYSTEM EQUIPMENT LECTRICAL SERVICE NATE #1/0 AWG COPPER

RAWINGS. ALL EXIT ALL BE EQUIPPED WITH THONIA NO. ITHONIA CO. NO. WITH TWO 1.5-WATT LED. INSTALL EXIT EMERGENCY LIGHTING TING FIXTURE

FOR THE BUILDING. MANUFACTURERS WILL

GRINNELL 4010-9101. 1 SIGNALS AND CORDANCE WITH NFPA

10DEL 4098-9710.

WEATHERPROOF DUCT DETECTOR WITH ORK BY MECHANICAL HANICAL CONTRACTOR A

IODEL 4904 SERIES,

UNITS SHALL BE INSTALLATION SHALL BE CONDUCTORS SHALL BE SSIBLE ABOVE AT COMPLETION OF -OUT DOCUMENTS.

3/4" X 10' LONG RE COPPER GROUNDING STEM NEUTRAL. ALL NDING CONDUCTOR DING. PROVIDE TIONAL ELECTRICAL CODE E A CODE-SIZED CTOR IS GENERALLY NOT GROUND EQUIPMENT AND

MEET REQUIREMENTS OF NEMA LS-1 REVISION ROSECOND MOV

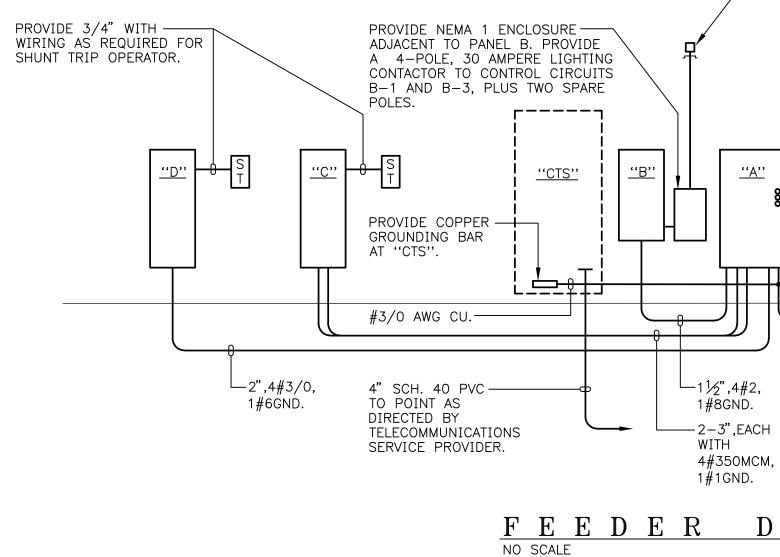
LLS AND AND FLOORS

RER'S CUTSHEET WITH SPECIFIC MODEL MODEL NUMBERS IDENTIFIED AS THEY APPLY TO THIS PROJECT. SUBMITTALS SHALL INCLUDE LIGHTING, LIGHTING CONTROLS,

F

KT.		L	4)	BREAKER		BREA	KER	L	.OAD (kVA	4)		скт.	1	
10.	SERVES	ØA	øВ	ØC	TRIP	POLE	POLE	TRIP	ØA	øВ	ØC	SERVES	NO.	
1	EXTERIOR LIGHTING	0.7			20	1	1	20	0.8			LTG-WELDING SHOP	2	1
3	EXTERIOR CANOPY LTG.		0.4		20	1	1	20		0.8		LTG-AG INNOVATION	4	1
5	LTG-LOBBY/OFFICE			1.0	20	1	1	20			0.8	LTG-STORAGE.HALLWAY	6	1
7	LTG-CLASSROOM	0.6			20	1	1	20	0.8			RECEPTACLES	8	1
9	LTG-CLASSROOM		0.6		20	1	1	20		0.4		RECEPTACLE-CTS	10	1
1	LTG-CLASSROOM			0.6	20	1	1	20			0.8	RECEPTACLES	12	
3	FACU	0.5			20	1	1	20	1.0			WATER FOUNTAIN	14	
5	TOILET RECEPTACLES		0.4		20	1	1	20		0.6		RECEPTACLES	16	1
7	RECEPTACLES			0.2	20	1	1	20			1.0	RECEPTACLES	18	1
9	RECEPTACLES	0.2			20	1	1	20	0.6			RECEPTACLES	20	1
1	RECEPTACLES		0.2		20	1	1	20		0.8		REC-CLASSROOM	22	1
3	REC-CLASSROOM			0.8	20	1	1	20			0.6	REC-CLASSROOM	24	1
5	REC-CLASSROOM	0.6			20	1	1	20	1.0			REC-CLASSROOM	26	1
7	REC-CLASSROOM		1.0		20	1	1	20		0.8		REC-CLASSROOM	28	1
9	EF-1 / EF-2			0.4	20	1	1	20			0.6	REC-CLASSROOM	30	
1	RECIRCULATION PUMP	0.2			20	1	5	20	×+.9		\sim	REC=CLASSROOM	32	1
3	SPARE				20	1 (1	20		0.6		CAMERA RECEPTACLES	34	1)
5	SPARE				20	1		20	$\left\langle \right\rangle$			SPARE	36	Y
7	SPARE				20	1	1	20				SPARE	38	1
9	SPARE				20	1	1	20				SPARE	40	1
1	SPARE				20	1	1	20				SPARE	42	1
JB	TOTAL CONNECTED	2.8	2.6	3.0					5.2	4.0	3.8	SUB TOTAL CONNECTED		1
в	TOTAL CONNECTED ØA: 8.0	SUB TOTA	L CONNE	CTED ØB:	6.6		SUB T	OTAL C	ONNECTE) øC: 6.8		TOTAL CONNECTED: 21.4		

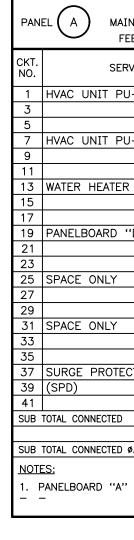
скт.		L	4)	BRE	AKER	BREA	KER	L	OAD (kV/	4)		СКТ	
NO.	SERVES	ØA	øВ	ØC	TRIP	POLE	POLE	TRIP	ØA	øВ	ØC	SERVES	NO
1	WELDING FILTER	1.7			40	3	3	40	1.7			WELDING FILTER	2
3			1.7							1.7			4
5				1.7							1.7		6
7	WELDER RECEPTACLE	4.0			50	2	1	20	1.0			CLOTHES WASHER	8
9			4.0				2	50		4.0		CLOTHES DRYER	10
11	WELDER RECEPTACLE			4.0	50	2					4.0		12
13		4.0					1	20	0.8			AG INNOVATION RECEPTS.	14
15	WELDER RECEPTACLE		4.0		50	2	1	20		0.6		AG INNOVATION RECEPTS.	16
17				4.0			1	20				SPARE	18
19	WELDING CONV. RECEPTACLE	0.4			20	1	1	20				SPARE	20
21	WELDING CONV. RECEPTACLE		0.4		20	1	1	20				SPARE	22
23	WELDING CONV. RECEPTACLE			0.4	20	1	1	20				SPARE	24
25	SPARE				20	1	1	20				SPARE	26
27	SPARE				20	1	1	20				SPARE	28
29	SPARE				20	1	1	20				SPARE	30
31	SPACE ONLY					1	1					SPACE ONLY	32
33	SPACE ONLY					1	1					SPACE ONLY	34
35	SPACE ONLY					1	1					SPACE ONLY	36
37	SPACE ONLY					1	1					SPACE ONLY	38
39	SPACE ONLY					1	1					SPACE ONLY	40
41	SPACE ONLY					1	1					SPACE ONLY	42
SUB	TOTAL CONNECTED	10.1	10.1	10.1					3.5	6.3	5.7	SUB TOTAL CONNECTED	
	TOTAL CONNECTED ØA: 13.6			CTED ØB:) øC: 15.		TOTAL CONNECTED: 45.8	



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CKT. NO.	SER
1	EXHAUST FAN
3	EXHAUST FAN
5	EXHAUST FAN
7	EXHAUST FAN
9	GAS FIRED HE
11	WELDING FILTE
13	
15	
17	WELDING FILTE
19	
21	
23	WELDING FILTE
25	WEEDING FIELE
27	
29	SPARE
31	SFARE
33	SPARE
	SPARE
35	
37	SPARE
39	SPARE
41	WELDER RECEP
43	
45	WELDER RECEP
47	
49	WELDER RECEP
51	
53	WELDER RECEP
55	
57	WELDER RECEP
59	
61	WELDING CONV
63	WELDING CONV
65	WELDING CONV
67	WELDING CONV
69	WELDING CONV
71	WELDING SHOP
73	WELDING SHOF
75	WELDER RECEP
77	
79	WELDER RECEP
81	
83	SPARE
SUB	TOTAL CONNECTED
SUB	TOTAL CONNECTED Ø
NOTE	ES:
1. F 2. F	PROVIDE 6"X40" PROVIDE "SHUNT

	K_								L				THESE	PL	AN	A	
MAINS: 1000A VOLTAGE/PHASE: 120/208V,3Ø,4W MOUNTING: SURFACE JOB SITE UNTI PANEL A MAIN BREAKER: YES (1000A) SHORT CKT. CAPACITY: 42,000 ENTRY: BOTTOM												LA	FINAL CERTIFICATE				
CKT.	FEEDER SIZE: 3#4	400MCM/			FED		UTIL			IER _OAD (kV		ITRY: BOTTOM BUS: COPPER	COMP	CC CKT.	TIO		
NO. 1	SERVES HVAC UNIT PU-1	ØA 2.9	ØB	ØC		POLE 3		TRIP		ØB	ØC	HVAC UNIT	ERVES PU-2	NO.	TH	IS (8	OFFICE.
	HVAC UNIT PU-3	2.9	2.9	2.9	50	 3	3	50	2.9	2.9	2.9	HVAC UNIT	No a _{PU-4} modifica		ation ns of	any	eletions, additions or kind are allowed to this
9 11 13 15	WATER HEATER	8.0	2.9 8.0	2.9	90	3	3	100	8.0	2.9 6.6	2.9	PANEL "B"	appro	12 14 16			out written permission office.
17 19	PANELBOARD ''D''	13.6		8.0	200	3	3	600	43.1		6.8	PANEL "C"	TENNNES	18 20	ST	TE	FIRE MARSHAL MBI COMPANIES INC. 299 N. WEISGARBER ROAD
	SPACE ONLY		16.4	15.8		 3	 3			44.7	48.4	SPACE ONLY		22 24 26			KNOXVILLE, TN 37919 PHONE: (865) 584-0999 FAX: (865) 584-5213
27 29 31	SPACE ONLY											SPACE ONLY		28 30 32			WEB: mbicompanies.com CONSULTANT
	SURGE PROTECTIVE DEVICE				 50							SPACE ONLY		34 36 38		7	
41	(SPD) TOTAL CONNECTED	27.4	30.2	29.6					56.9	57.1	61.0	SUB TOTAL CON	NECTED	40 42			
	SUB TOTAL CONNECTED ØA: 84.3 SUB TOTAL CONNECTED ØB: 87.3 SUB TOTAL CONNECTED ØC: 90.6 TOTAL CONNECTED: 262.2 NOTES:																Vreeland Engineers Inc. 3107 Sutherland Ave.
1. PANELBOARD "A" SHALL BE UL LISTED FOR 120/208–VOLT, 3–PHASE, 4–WIRE, WYE SERVICE ENTRANCE USE. – –															3107 Sutherland Ave. P.O. Box 10648 Knoxville, TN. 37939 PH: (865)637-4451 1-800-362-9789		
															1-800-362-9789 vreelandengineers.com VEI Job No. 23193		
MAINS: 600A VOLTAGE/PHASE: 120/208V,3Ø,4W MOUNTING: SURFACE PANEL MAIN BREAKER: YES SHORT CKT. CAPACITY: 22,000 ENTRY: BOTTOM FEEDER SIZE: 2-3#350MCM FED FROM: "A" BUS: COPPER															SEAL		
CKT. NO.	SERVES		.OAD (kV. ØB	A) ØC	BRE TRIP	AKER POLE	BRE	AKER		_OAD (kV ØB		- SI	ERVES	CKT. NO.		6	
3	EXHAUST FAN EF-4 EXHAUST FAN EF-3 EXHAUST FAN EF-5	1.7	1.7	1.7	30 30 30	1 1 1	3					SPACE ONLY		2 4 6			ROLD ENCLARD
7 9	EXHAUST FAN EF-6 GAS FIRED HEATERS	1.7	0.1	1.7	30 20 40	1 1 3	3					SPACE ONLY		8 10 12			AGRICULTURE
13 15	WELDING FILTER	1.7	1.7	1.7	40		3	40	1.7	1.7	1.7	WELDING FIL	TER	14 16 18			1.29.24
19 21	WELDING FILTER	1.7	1.7	1.7	+0 		3	40	1.7	1.7	1.7	WELDING FIL	TER	20 22 24			OF TENNESSI
25 27	SPARE	1.7	1.7		 50	2	2	50 50				SPARE SPARE		26 28 30			
31					50	2		20 20				SPARE SPARE SPARE		32 34 36		5	COPYRIGHT © MBI COMPANIES INC. 2021 THE DESIGN PROFESSIONAL DENIES ANY AND ALL
37 39	SPARE SPARE WELDER RECEPTACLE			4.0	20 20 50	1 1 1	1	20 20 20 50			4.0	SPARE SPARE SPARE WELDER REC		38 40			RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS'
43 45	WELDER RECEPTACLE	4.0	4.0		50	2 2	2	50	4.0	4.0		WELDER REC		42 44 46			FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
51	WELDER RECEPTACLE	4.0	4.0	4.0	50	2	2	50	4.0	4.0	4.0	WELDER REC		48 50 52			PROJECT INFORMATION PROJECT:
55 57	WELDER RECEPTACLE WELDER RECEPTACLE	4.0	4.0	4.0	50 50	2 2	2 2	50 50	4.0	4.0	4.0	WELDER REC		54 56 58			
63	WELDING CONV. RECEPTACLE WELDING CONV. RECEPTACLE WELDING CONV. RECEPTACLE		0.4	4.0	20 20	1	1	20 20 20	0.4	0.4	4.0	WELDING CO	NV. RECEPTACLE NV. RECEPTACLE NV. RECEPTACLE	64			AND AGRICULTURE BUILDING
67 69	WELDING CONV. RECEPTACLE WELDING CONV. RECEPTACLE WELDING CONV. RECEPTACLE WELDING SHOP RECEPTS.	0.4	0.4	0.4	20 20 20 20	1 1 1	1 1 1	20 20 20 20	0.4	0.4	0.4	WELDING CO WELDING CO	NV. RECEPTACLE NV. RECEPTACLE NV. RECEPTACLE OP CEIL. PWR.	68		4	PROJECT ADDRESS:
73	WELDING SHOP RECEPTS. WELDER RECEPTACLE	0.8	4.0	4.0	20 20 50	1 2	1	20 20 20 20	0.4	0.4	0.4	WELDING SH WELDING SH	OP CEIL. PWR. OP CEIL. PWR. OP CEIL. PWR.	74 76 78			411 DOUGLAS LN CLINTON, TN 37716
79 81	WELDER RECEPTACLE	4.0	4.0	+.0	50	2	1	20 20 20	0.4	0.4	0.+	WELDING CO	NV. RECEPTACLE NV. RECEPTACLE	80 82			PROJECT NO.: 220042-02
SUB	SPARE TOTAL CONNECTED	26.1	27.7	27.8	20				17.0	17.0	20.6	SUB TOTAL CON	NECTED	84			ACTIVE DESIGN PHASE
<u>NOTE</u> 1. F	<u>ES:</u> PROVIDE 6"X40" DOUBLE SECTIO	N PANEL		CTED ØB:						D ØC: 48		TOTAL CONNECT					SCHEMATIC DESIGN DESIGN DEVELOPMENT
2. F	PROVIDE "SHUNT TRIP" TYPE MA	IN BREA	KER. PR	OVIDE IN	ITERLO	DCK W	IRING	WITH	WALL M	OUNTED	SHUNT -	TRIP OPERATOR	, SEE FEEDER DIA	GRAM.			
																3	REVISION INFORMATION
																	1 01.29.2024 ADDENDUM #01
			OF FAC	VIDE BUILD: ING NO HTING	ING ORTH	WHEF I, TO	RE D CON	IREC	TED,	ĸ							
ŗ			— PRC	VIDE :	200k	(A SI	JRGE										
		Л	— PRC)TECTIV)VIDE ER BA	NEMA	A 3R	СТ	, CABI									KEY PLAN
		ó	FOR	NEW	100	0 AM	PERE										
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Ц		8			0111		10.									2	
				3, EACI		TH —	Т										
				OOMCM)]	-				SHEET INFORMATION SHEET ISSUED: 10/06/2023
			PRC	VIDF I	ЕМРТ	Y CO	וחאכ	ITS	AS RF	QUIREI) ——						DESIGNED BY: HED DRAWN BY: VEI
	-1½",4#2, 1#8GND.		BY FOR		0 P(ARY	DINT POW	AS ER L	DIRE .INE	CTED TO NE	BY CUI							REVIEWED BY: HED SHEET TITLE:
<u> </u>	-2-3",EACH WITH 4#350MCM,		— PRC	VIDE SPEC	SERV	'ICE	GRO										
	4#350MCM, 1#1GND.		_	-												1	PANELBOARD SCHEDULES, FEEDER
E]	R DIA	<u>G</u> I	R A	M				_	LEV	\ #	იიი)17-D					DIAGRAM SHEET NO.:
													23-10-3	81-	01		E202
		К							L				М				

E203 - CHS WELDING - DETAILS.dwg A.L.S. 01/24/24 2:06 PM HD23193(AS)

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