CLAYTON ADDISON MANUFACTURING FACILITY (944)

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

ABBREVIATIONS:

- FOOTING

- HOSE BIB

- HARDWARE

- INVFRT

- LAVATORY

- MANHOLE

- MAXIMUM

- MECHANICAL

- POUND

INSIDE DIAMETER

- GALVANIZED IRON

- HOLLOW CORE WOOD

GALV

HCWD

MECH

HDW

- ALUMINUM MINIMUM - ARCHITECTURAL - ACOUSTICAL TILE CEILING MISCELL ANEOUS NOT IN CONTRACT - ON CENTER - BENCH MARK - OUTSIDE DIAMETER - BUILDING - BLOCK - BEARING CJ CHB CLG CLOS, C PAINTED ROOF DRAIN - COMPOSITION CONC CONST CMU CT ROOM ROUGH OPENING - SCHEDULE SECTION D, DIA SIMILAR SPECIFICATIONS **DRINK FOUNTAIN** - FACH FACE STORM DRAIN TACK BOARD - FXTFRIOR THRESHOLD FXPANSION JOINT - FLOOR DRAIN TYPICAL VERIFY IN FIFL D

VINYL TILE

VERTICAL

WAINSCOT

WATER CLOSET

- WIDE FLANGE

WELDED WIRE FABRIC

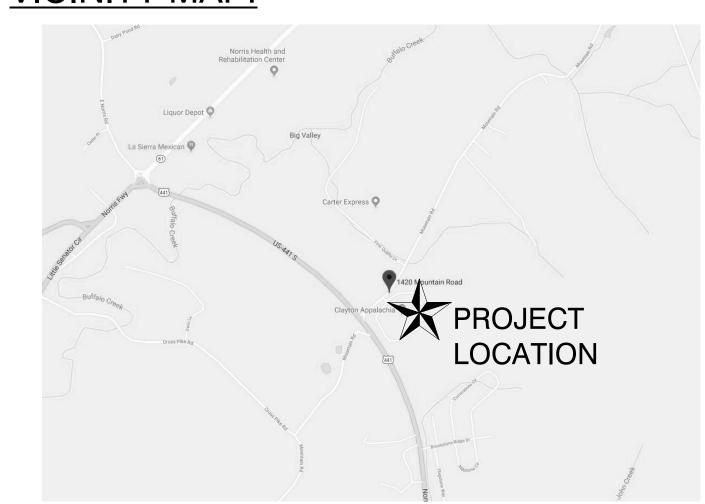
WELDED WIRE MESH

WINDOW

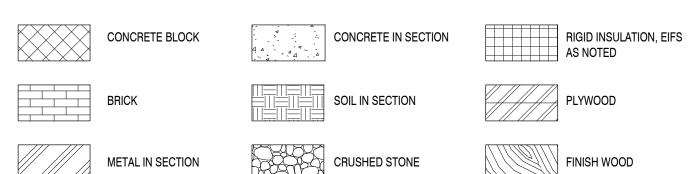
WOOD

ANGLE

VICINITY MAP:



MATERIALS LEGEND:



PROJECT INFORMATION:

RENOVATIONS AND ADDITIONS TO THE CLAYTON ADDISON MANUFACTURING FACILITY (944)

STATE FIRE MARSHAL'S OFFICE 201 MONROE ST. SUITE 1790 MONTGOMERY, AL 36130-3352 SCOTT PILGREEN PHONE NUMBER: (334) 241-4166

2015 INTERNATIONAL BUILDING CODE 2015 NATIONAL ELECTRICAL CODE 2015 INTERNATIONAL FIRE CODE 2015 INTERNATIONAL MECHANICAL CODI

2015 INTERNATIONAL FUEL CODE 2015 INTERNATIONAL PLUMBING CODE 2015 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY: NUMBER OF STORIES: BUILDING AREA ALLOWABLE: OCCUPANT LOAD / FLOOR:

TYPE OF CONSTRUCTION:

F-1, MANUFACTURING UNLIMITED S.F. ACTUAL: 6,936 S.F. RENOVATION 11,179 S.F. TOTAL

REQUIRED EXIT WIDTH / FLOOR: 659 OCC. *.2 = 132"

FIRE PROTECTION HOURLY RATING FOR ALL STRUCTURAL COMPONENTS AND 0 ROOF/CEILING 0 ROOF COVERING 0 FLOOR/CEILING N/A SHAFT ENCLOSURES N/A STAIR ENCLOSURE N/A TENANT SEPARATIONS

N/A OCCUPANCY SEPARATIONS STANDPIPE SYSTEM FIRE/ SMOKE ALARM SYSTEM YES

PROJECT DIRECTORY:

CLAYTON HOMES BRAD JARRETT 3916 FOUNTAIN VALLEY ROAD BRAD.JARRETT@CLAYTONHOMES.COM

ARCHITECT:

MICHAEL BRADY INC.

299 N. WEISGARBER RD

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ERINH@MBICOMPANIES.COM

ERIN HARLOW

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STEVEW@MBICOMPANIES.COM

ELECTRICAL ENGINEER: MICHAEL BRADY INC. STEVE WALKER 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999

CIVIL ENGINEER: MICHAEL BRADY INC. DAVID MATLOCK 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 DAVIDM@MBICOMPANIES.COM

STRUCTURAL ENGINEER: MICHAEL BRADY INC. M. EDDIE JETT 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 EDDIEJ@MBICOMPANIES.COM

LIST OF DRAWINGS:

G000 COVER SHEET

CIVIL AND SITE ENGINEERING CIVIL LEGENDS & NOTES

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SITE DEMOLITION PLAN

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DOOR & WINDOW DETAILS

WINDOW ELEVATIONS AND DETAILS

ROOF PLAN AND DETAILS

BUILDING SECTIONS

WALL SECTIONS

ENLARGED PLANS AND DETAILS

REFLECTED CEILING PLAN AND DETAILS MISC. DETAILS AND NOTES

STRUCTURAL NOTES TYPICAL FOUNDATION, SLAB ON GRADE AND CFS DETAILS

TYPICAL STEEL DETAILS

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STRUCTURAL DETAILS

STRUCTURAL DETAILS

FIRE PROTECTION LEGENDS. SPECIFICATIONS. AND NOTES

FLOOR PLAN - FIRE PROTECTION

HVAC LEGEND, SPECIFICATIONS AND NOTES

FLOOR PLAN - DEMO

FLOOR PLANS - WATER

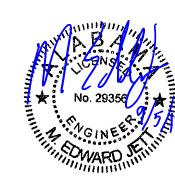
FLOOR PLAN - POWER

FLOOR PLAN - COMMUNICATIONSAND FIRE ALARM

RISER DIAGRAM AND LIGHTING FIXTURE SCHEDULE

ELECTIRCAL DETAILS





MECHANICAL



ELECTRICAL:

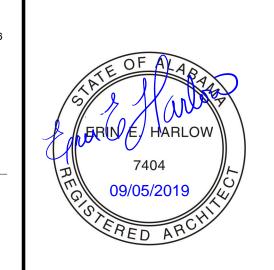




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CONSULTANT

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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORT

ADDISON, AL 3554 PROJECT NO.:

FOR PERMITTING ONL SCHEMATIC DESIG DESIGN DEVELOPMEN **CONSTRUCTION BIDDIN**

CONSTRUCTION DOCUMENT AS-BUILT RECORD SE

SHEET INFORMATION

DESIGNED BY: REVIEWED BY

COVER SHEE

G000

GENERAL 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. THE APPROPRIATE TRAFFIC CONTROL SIGNS AS DEFINED BY THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, F.H.W.A., 2003". 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 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 REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE. DEMOLITION 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. CONTRACTORS SUBMITTING PROPOSALS SHALL DETERMINE THE QUANTITIES OF DEMOLITION WORK REQUIRED BY 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 OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.

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 EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES USED OR OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY

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.

AUTHORITIES HAVING JURISDICTION IF INTERRUPTION IS ALLOWED. PROVIDE ALTERNATIVE TEMPORARY SERVICES

COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK. 0. REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH

MATERIALS OFF-SITE. BURYING OR BURNING OF MATERIALS ON THE PROJECT SITE IS FORBIDDEN.

2. AVAILABILITY FOR DEMOLITION MUST BE CONFIRMED BY OWNER JUST PRIOR TO DEMOLITION.

3. 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. 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.

SITE NOTES

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. 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 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

SIDEWALK AND PAVING JOINTS ARE SHOWN FOR REFERENCE ONLY. REVIEW JOINT LAYOUT WITH ALL

SPECIFICATIONS AND DETAILS BEFORE POURING CONCRETE.

SURVEY NOTES

BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PREPARED BY SMW ENGINEERING GROUP, 158 BUSINESS CENTER DRIVE, BIRMINGHAM AL 35244. SURVEY PERFORMED xx/xx/2018.

COORDINATES ARE IN FEET AND REFERENCE TO ALABAMA STATE PLANE SYSTEM OF 1983. 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.

GRADING NOTES

FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPANCIES.

THE MINIMUM SLOPE FOR PARKING, SIDEWALKS, AND LANDSCAPED AREAS IS 1%. FIELD VERIFY MINIMUM SLOPE IS MAXIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%. MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE

SIDEWALKS AWAY FROM BUILDING AT 13% CROSS SLOPE UNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE CANNOT EXCEED 2% IN ANY CASE.

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN REPRESENT FINISHED GRADES. ADJUST FOR PAVEMENT

ADJUST DRAINAGE STRUCTURE TOPS AS NECESSARY TO MATCH FINAL GRADES.

NO SLOPE SHALL BE STEEPER THAN 2(H):1(V)

ALL EARTHWORK 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 UNCLASSIFIED. OBTAIN 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 IMPROVEMENTS. SUBMIT SOIL SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. SOIL FOR COMPACTED BACKFILL AND ENGINEERED FILL SHALL CONSIST OF CLEAN GRANULAR SOILS, CLAY SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 35 AND A MINIMUM DENSITY OF 90 POUNDS PER CUBIC FOOT WHEN COMPACTED TO ONE HUNDRED PERCENT (100%) OF ITS MAXIMUM DRY DENSITY PER STANDARD PROCTOR TEST. (ASTM D698) MATERIAL SHALL BE FREE OF VEGETATION, ROOTS, ROCKS LARGER THAN 2" IN ANY DIMENSION, DEBRIS AND OTHER DELETERIOUS MATERIALS. RESIDUAL SOIL EXCAVATED AT THE SITE MAY BE USED FOR BACKFILL IF IT MEETS THE SPECIFICATION REQUIREMENTS. THE MOISTURE CONTENT OF THE FILL SOILS SHOULD BE MAINTAINED WITHIN +3 AND -3 PERCENTAGE POINTS OF OPTIMUM MOISTURE

CONTENT DETERMINED FROM THE STANDARD PROCTOR COMPACTION TEST. ALL FILL IN AREAS TO BE OCCUPIED BY THE BUILDING(S) AND PAVING, INCLUDING AN AREA 10 FEET OUTSIDE THE PERIMETERS THEREOF, SHALL BE CONTROLLED (ENGINEERED) FILL AND THE COMPACTION SHALL BE TESTED BY A LICENSED AND QUALIFIED GEOTECHNICAL ENGINEER. CONTROLLED FILL IN AREAS OF BUILDINGS SHALL BE COMPACTED IN MAXIMUM 4" LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698 (STANDARD PROCTOR). FILL IN AREAS OF ASPHALT PAVING SHALL BE COMPACTED IN MAXIMUM 6" LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698. THE UPPER 12 INCHES OF FILL BENEATH PAVEMENTS AND UPPER 24 INCHES BENEATH FOOTINGS AND GRADE

SLABS SHALL BE COMPACTED TO 100%. PROVIDE 95% COMPACTION IN ALL OTHER AREAS. AFTER STRIPPING TOPSOIL, ALL FILL AREAS SHALL BE PROOFROLLED AND MONITORED BY THE PROJECT GEOTECHNICAL ENGINEER.

FILL OUTSIDE OF BUILDING AND PAVEMENT SHALL BE PLACED IN 8" LIFTS IN THE PRESENCE OF A REPRESENTATIVE OF THE SOIL TESTING LAB, COMPACTED TO SPECIFIED REQUIREMENTS, AND TESTED EVERY 900 SF FOR EACH LAYER OF FILL. REMEDY ANY INADEQUATELY PLACED FILL TO MEET PROJECT SPECIFICATIONS. ALL LANDSCAPED AND GRASS AREAS SHALL HAVE A MINIMUM OF 5" OF CLEAN TOPSOIL.

TOLERANCES FOR SURFACES: HARDSCAPE: ± 0.025', LANDSCAPE/GRASSED AREAS: ± 0.1' ALL OFFSITE BORROW AND SPOIL SITES, IF REQUIRED, SHALL BE PROPERLY PERMITTED.

DRAINAGE NOTES

FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS PRIOR TO CONSTRUCTION OR FABRICATION OF PRECAST STRUCTURES.

UNLESS OTHERWISE NOTED, HDPE SHALL BE HANCOR, LANE HDPE, OR ADS N-12 SMOOTH INTERIOR WALL HDPE PIPE. PROVIDE #57 STONE BEDDING AND BACKFILL TO PAVEMENT SUBGRADE OR 12" ABOVE PIPE IN GRASS AREAS. ALL PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M252, TYPE S (4"-10") OR AASHTO M294, TYPE S (12"-48"). GASKET SHALL MEET THE REQUIREMENTS OF ASTM F477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 JOINTS SHALL BE SILT TIGHT AND NON-RATED WATERTIGHT GASKETS SHALL BE COVERED WITH A REMOVABLE WRAP BY THE MANUFACTURER TO ENSURE THAT THE GASKET IS FREE FROM DEBRIS.

UNLESS OTHERWISE NOTED, RCP SHALL BE CLASS III CONFORMING TO ASTM C-76 (LATEST REVISION):

"STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE". ROOF LEADERS SHALL BE ASTM D3034 SDR 35 PVC WITH GASKET JOINTS. UNLESS OTHERWISE NOTED ON THE PLANS,

4" SHALL BE LAID AT A 2% MINIMUM SLOPE AND 6" SHALL BE LAID AT 1% MINIMUM SLOPE. COORDINATE WITH GOVERNING AGENCY FOR ALL REQUIRED MATERIAL APPROVALS, INSPECTIONS AND TESTING. **EROSION CONTROL NOTES**

UNLESS SHOWN OTHERWISE, ALL DISTURBED AREAS NOT ULTIMATELY RECEIVING A HARD SURFACE SHALL HAVE A MINIMUM DEPTH OF 5" OF TOPSOIL AND BE STABILIZED WITH GRASS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS AND COMPLYING WITH ALL APPLICABLE

LOCAL, STATE AND FEDERAL REGULATIONS RELATED TO SITE GRADING, EROSION AND SEDIMENTATION CONTROL, AND STORMWATER RUNOFF. FURNISH, ERECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IN CONFORMITY WITH THE

ALABAMA EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION, AS PREPARED BY TDEC. SEE PLAN AND

EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THIS PLAN ARE A MINIMUM REQUIREMENT. MAINTAIN MODIFY AND ADD EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE. ENVIRONMENTAL PERMIT REQUIREMENTS: SHOW COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. PROVIDE ENGINEER AND ADEM WITH COPIES OF ALL REQUIRED PAPERWORK. PERFORM AND PROVIDE ALL MAINTENANCE, INSPECTIONS,

RECORD KEEPING, AND REPORTING MAINTAIN A RAIN GAUGE AND RAINFALL RECORDS ON SITE AS REQUIRED BY ADEM.

DETAILS FOR SPECIFIC EROSION AND SEDIMENTATION CONTROL MEASURES.

EROSION AND SEDIMENTATION CONTROL IMPLEMENTATION: STAKE THE DISTURBED AREA LIMITS AND UNDISTURBED AREAS IN THE FIELD BEFORE BEGINNING WORK INSTALL CONSTRUCTION EXIT

TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO THE SITE EROSION AND SEDIMENTATION CONTROL DRAWINGS.

VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS TREE- OR PLANT- PROTECTION ZONES. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING

CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND SEDIMENTATION FROM THE PROJECT SITE DURING THE COURSE OF THE PROJECT. OBTAIN PERMISSION AND APPROPRIATE PERMITS TO ACCESS AREAS OUTSIDE THIS SITE.

AFTER FINAL STABILIZATION OF THE SITE, REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL. STORMWATER CONTROL: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PROVIDE

BARRIERS IN AND AROUND EXCAVATIONS AND SUBGRADE CONSTRUCTION TO PREVENT FLOODING BY RUNOFF OF

STORMWATER FROM HEAVY RAINS. PROJECT MANAGER OR ENGINEER MAY DIRECT CONTRACTOR TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND MAY DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION

CONTROL MEASURES. PROVIDE PERMANENT EROSION CONTROL MEASURES AT EARLIEST PRACTICAL TIME TO MINIMIZE REQUIREMENT FOR TEMPORARY EROSION CONTROLS. PERMANENTLY SEED AND MULCH CUT SLOPES AS

EXCAVATION PROCEEDS MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY CONTRACTOR AS DIRECTED BY PROJECT MANAGER OR ENGINEER TO CONTROL SILTATION AT ALL TIMES THROUGHOUT WORK. PROVIDE MAINTENANCE OR ADDITIONAL WORK DIRECTED BY ENGINEER WITHIN 48 HOURS OF NOTIFICATION BY ENGINEER.

EROSION CONTROL SHALL BE MAINTAINED UNTIL PAVING IS COMPLETED AND LAWNS HAVE BEEN ESTABLISHED. PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENT DAMAGE THROUGHOUT THE LIFE OF THE PROJECT.

STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT SOIL STABILIZATION AT THE CONSTRUCTION SITE (OR PHASE OF THE PROJECT) MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODING SURFACE.

ALL WATER DISCHARGED FROM EXCAVATIONS AND TEMPORARY SEDIMENT PONDS SHALL BE FILTERED USING SEDIMENT CONTROLS ACCEPTABLE TO ADEM AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION. UNLESS OTHERWISE NOTED, RIP-RAP SHALL BE AL.D.O.T. MACHINED CLASS A-1 WITH A MEDIAN RIP-RAP SIZE D50 OF 6",

9" THICK AND SHALL BE UNDERLAIN WITH A NON-WOVEN GEOTEXTILE FABRIC. CONCRETE WASHOUT AREA SHALL BE IN CONFORMANCE WITH STANDARDS OF ADEM, AS WELL AS THE LOCAL

PERMITTING AUTHORITY HAVING JURISDICTION. CONTRACTOR COORDINATE WITH ENGINEER AT BEGINNING OF LAND DISTURBANCE TO DETERMINE WHETHER OR NOT AN INITIAL SITE ASSESSMENT INSPECTION BY THE ENGINEER IS REQUIRED. IF REQUIRED, THE SITE ASSESSMENT INSPECTION BY THE ENGINEER MUST BE PERFORMED WITHIN 1 MONTH OF STARTING CONSTRUCTION. ALLOW

ENGINEER A MINIMUM OF 1 WEEK NOTICE IN SCHEDULING SITE ASSESSMENT INSPECTIONS.

UTILITY NOTES COORDINATE WITH EXISTING UTILITIES AND STORM SEWER INSTALLATION TO AVOID CONFLICTS. UTILITY INSTALLATION AND MATERIAL SHALL MEET THE REQUIREMENTS OF ADDISON WATER WORKS AND ALL APPLICABLE CODES. COORDINATE WITH ADDISON WATER WORKS PRIOR TO CONSTRUCTION TO DETERMINE MATERIAL, INSTALLATION TESTING AND INSPECTION REQUIREMENTS. VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES

PRIOR TO CONSTRUCTION. PAVEMENT REPAIR AND TRAFFIC CONTROL SHALL MEET THE REQUIREMENTS OF THE AGENCY HAVING

JURISDICTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL PERMITS AND LICENSES REQUIRED TO WORK IN THE PUBLIC R.O.W. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP FEES AND COORDINATION WITH **ADDISON WATER WORKS** TO ESTABLISH WATER AND SEWER SERVICE.

PROVIDE 10' MIN. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES. WHERE CROSSINGS OCCUR, PROVIDE 18" MIN SEPARATION BETWEEN WATER AND SEWER LINES. PROVIDE 6" MIN. CLEARANCE BETWEEN STORM SEWERS AND OTHER UTILITIES. UNLESS OTHERWISE NOTED PROVIDE 3' MINIMUM COVER FOR ALL UTILITIES. PROVIDE #57 STONE BEDDING AND BACKFILL TO SUBGRADE FOR ALL UTILITIES LOCATED IN PAVED AREAS. ADJUST ALL EXISTING UTILITY STRUCTURES, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT, TO

MATCH FINAL GRADES. ADJUSTMENTS SHALL MEET THE REQUIREMENTS OF ADDISON WATER WORKS. COORDINATE WITH ADDISON WATER WORKS TO REMOVE OR ABANDON EXISTING UTILITIES, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT, THAT ARE LOCATED WITHIN THE PROJECT LIMITS AND NO

UNLESS OTHERWISE NOTED, ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC MEETING THE REQUIREMENTS OF ASTM D 3034. USE SDR 35 UNLESS OTHERWISE SPECIFIED. FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D 3311 AND ASTM D 2665. PIPE SHALL HAVE AN INTEGRAL BELL END WITH GASKET SEAL WHICH HAS BEEN REINFORCED WITH A STEEL RING, BAND, OR OTHER RIGID MATERIAL THAT PERMANENTLY LOCKS THE GASKET IN PLACE. THE JOINT SHALL MEET THE REQUIREMENTS OF ASTM D 3212. GASKETS SHALL BE OF A LOCK-IN TYPE GASKET, REIBER TYPE OR APPROVED SUBSTITUTE, MEETING THE REQUIREMENTS OF ASTM F-477. UNLESS OTHERWISE NOTED, MINIMUM SLOPE SHALL BE 2.0% FOR 4" LINE AND 1.0% FOR 6" LINES. UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL BE AWWA C900 PVC (CLASS 200) WITH BELL END FOR

PUSH-ON TYPE JOINTS. JOINTS SHALL CONSIST OF COMPACT PATTERN DUCTILE IRON FITTINGS MEETING THE REQUIREMENTS OF AWWA C 153 WITH RUBBER GASKETS MEETING THE REQUIREMENTS OF AWWA C 111. INSTALLATION SHALL COMPLY WITH UL 1285. ALL FIRE WATER LINES SHALL BE CLASS 350 DUCTILE IRON WITH PUSH-ON TYPE JOINTS. PIPE SHALL COMPLY WITH

AWWA C151 AND CEMENT - MORTAR LINING SHALL COMPLY WITH AWWA C104. INSTALLATION SHALL COMPLY FIRE LINE SIZE SHALL BE VERIFIED BY SPRINKLER CONTRACTOR. CERTIFIED CALCULATIONS SHALL BE SUBMITTED TO THE OWNER. SEE THE FIRE PROTECTION PLAN FOR FURTHER REQUIREMENTS. ALL FIRE PROTECTION PIPING STARTING FROM THE POINT OF SERVICE MUST BE INSTALLED BY AN ALABAMA REGISTERED SPRINKLER

CONTRACTOR. ALL WATER LINE MATERIALS SHALL BE LEAD FREE.

ABBREVIATIONS NOTE: ALL ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT ADEM ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS AASHTO AMERICANS WITH DISABILITIES ACT ADA APP'D APPROVED APPROX. OR ~ APPROXIMATE ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS ASPH. ASPHALT ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AWWA AMERICAN WATER WORKS ASSOCIATION B/C BACK OF CURB BLDG. BUILDING BLVD. BOULEVARD l BM BENCHMARK lΒΛΛ **BOTTOM OF WALL CURVE DELTA ANGLE** СВ CATCH BASIN CFS CUBIC FEET PER SECOND CGP CONSTRUCTION GENERAL PERMIT CURB INLET CENTERLINE CORRUGATED METAL PIPE CMU CONCRETE MASONRY UNIT C.O. CLEANOUT CONC. CONCRETE CONT. CONTINUOUS DEGREES DCB DOUBLE CATCH BASIN DIA. OR Ø DIAMETER DUCTILE IRON PIPE DWG. DRAWING EAST EACH EACH FACE EXISTING IRON PIPE EL. OR ELEV. ELEVATION EDGE OF PAVEMENT EOP EPA **ENVIRONMENTAL PROTECTION AGENCY** ETC. ET CETERA l E.W. EACH WAY EX. OR EXIST. EXISTING FACE OF CURB FINISHED FLOOR ELEVATION FINISHED FIRE PROTECTION GENERAL CONTRACTOR GRATE INLET GALLONS PER MINUTE GPM GAS VALVE HORIZONTAL HDPE HIGH DENSITY POLYETHYLENE HIGH POINT HP HDPE HIGH PERFORMANCE HIGH DENSITY POLYETHYLENE HWY. HIGHWAY INSIDE DIAMETER OR INLINE DRAIN INCH(ES) INVFRT IRON PIN FOUND JUNCTION BOX LENGTH POUNDS LINEAR FEET MAXIMUM MANHOLE MIN. MINIMUM MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MUTCD NORTH NOT APPLICABLE NFPA NATIONAL FIRE PROTECTION AGENCY NOT IN CONTRACT NEW IRON PIN NO. OR # NUMBER NOTICE OF INTENT NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM NPDES N.T.E. NOT TO SCALE ON CENTER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OSHA POST INDICATOR VALVE POB POINT OF BEGINNING (ALIGNMENT) POE POINT OF ENDING (ALIGNMENT) POWER/UTILITY POLE POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE PVMT PAVEMENT 1 YEAR STORM PEAK FLOW 10 YEAR STORM PEAK FLOW QLP QUALIFYING LOCAL PROGRAM RCP REINFORCED CONCRETE PIPE REFERENCE REQ'D REQUIRED REV. REVISION R.O.W. RIGHT-OF-WAY SOUTH SANITARY SCH. SCHEDULE STORM DRAIN SDR STANDARD DIMENSION RATIO SQUARE FEET SPAP SPECIAL POLLUTION ABATEMENT PERMIT SQ. SQUARE STREET STA. STATION SANITARY SEWER l ss SANITARY SEWER FORCE MAIN SSFM SWPPP STORM WATER POLLUTION PREVENTION PLAN TBM TDEC TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION TOP OF CASTING TOP OF CURB ELEVATION TOP OF PAVEMENT ELEVATION TOP OF WALL TYPICAL VERTICAL WEST WATER SURFACE

WATER VALVE

YARD DRAIN

WELDED WIRE FABRIC

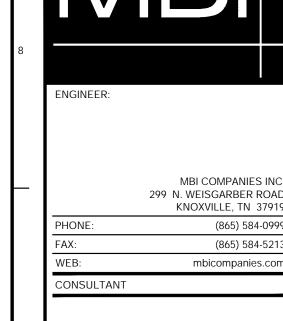
WELDED WIRE MESH

W.W.F.

W.W.M.

EXISTING	LEGEND	PROPOSED
— — — P/E —	EASEMENT	C/E
R/W	RIGHT-OF-WAY	R/W
———— PL ————		PL
<u> </u>		2010
2011		2011
ss _x		ss
G _X		— G —
W _X		W
OU _x	ELECTRIC (LINDERGROLIND)	OU
UT _X	ELECTRIC (UNDERGROUND) TELEPHONE/COMM	T
——————————————————————————————————————		SD
ЗБ Х	ROOF DRAINS	RD
	FIRE SUPPRESSION LINE	——— F ———
	FORCE MAIN	SSFM
	SILT FENCE	SF
	REINFORCED SILT FENCE	———— SSF ———
	CONSTRUCTION LIMITS	— • —
	SETBACK	 -
	EXISTING TO BE REMOVED	////////////
	DRAINAGE SWALE	-<-··-
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	TUBES AND WATTLES)))
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	BUILDING	
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X	FENCE	X
	VEGETATION SEWER MANHOLE	
(S)	SEWER MANHOLE	
(GT)	GREASE TRAP	(GT)
ST	STORM MANHOLE	(ST)
JB	JUNCTION BOX	JB
CB	CATCH BASIN	
СВ	CURB INLET	
	THROATED INLET	
©	CLEAN OUT	©
	HEADWALL	<u>~</u>
XXX.XX imes	SPOT GRADE	xxx.xx —
	OUTFALL	OUT
	RIPRAP OUTLET PROTECTION	
	TEMP. CONSTRUCTION EXIT	
	INLET PROTECTION	[1111]
	THRUST BLOCK	<u></u> 511
₩ ⊠	WATER VALVE	• • • • • • • • • • • • • • • • • • •
M	WATER METER	
		(v) • 1.
PIV	POST INDICATOR VALVE	×
(FJ)	FIRE HYDRANT	
	FIRE DEPARTMENT CONNECT	FION
IV O	IRRIGATION VALVE	
©	GAS VALVE	\bowtie
GM	GAS METER	G
©	UTILITY POLE	₽
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EV	ELECTRICAL VAULT	
EM	ELECTRIC METER	
E	ELECTRICAL BOX	
> GW	GUY WIRE	
\$	LIGHT STANDARD	← □
T	TELEPHONE PEDESTAL	
©	BOLLARD	•
	SLOPE DRAIN	—
		RSSSI
	SLOPE MATTING	
	TEMPORARY STABILIZATION	TS
	PERMANENT STABILIZATION	PS
	CONCRETE WASHOUT	cw
	FILTER RING	
•	BENCHMARK	∀ ₩
	CONTROL POINT	
	MAILBOX	
-		

AREAS	& CALCUL	_ATIONS	
DISTURBED	AREA		
- TOTAL	SITE AREA	DISTURBED AREA	
0.643 28009.	Acres 08 sqft	0.2370 Acres 10323.72 sqft	
PROPER	RTY INFORM	MATION	
OWNER			
NAME:	CLAYTON	N HOMES	
CONTACT:	BRAD JAI	RRETT	
ADDRESS:	3916 FOL	3916 FOUNTAIN VALLEY ROAD KNOXVILLE, TN 37918	
DUONE			
PHONE:	(844) 275	-5213	
PROPERTY	DATA		
PROPERTY ADDRESS:		DUNTY ROAD 41	



(865) 584-521

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CLAYTON ADDISON

MANUFACTURING FACILITY PROJECT ADDRESS:

18025 COUNTY ROAD PROJECT NO .: 180789.0

ACTIVE DESIGN PHASE FOR REVIEW ONL FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET REVISION INFORMATION

IO. DATE

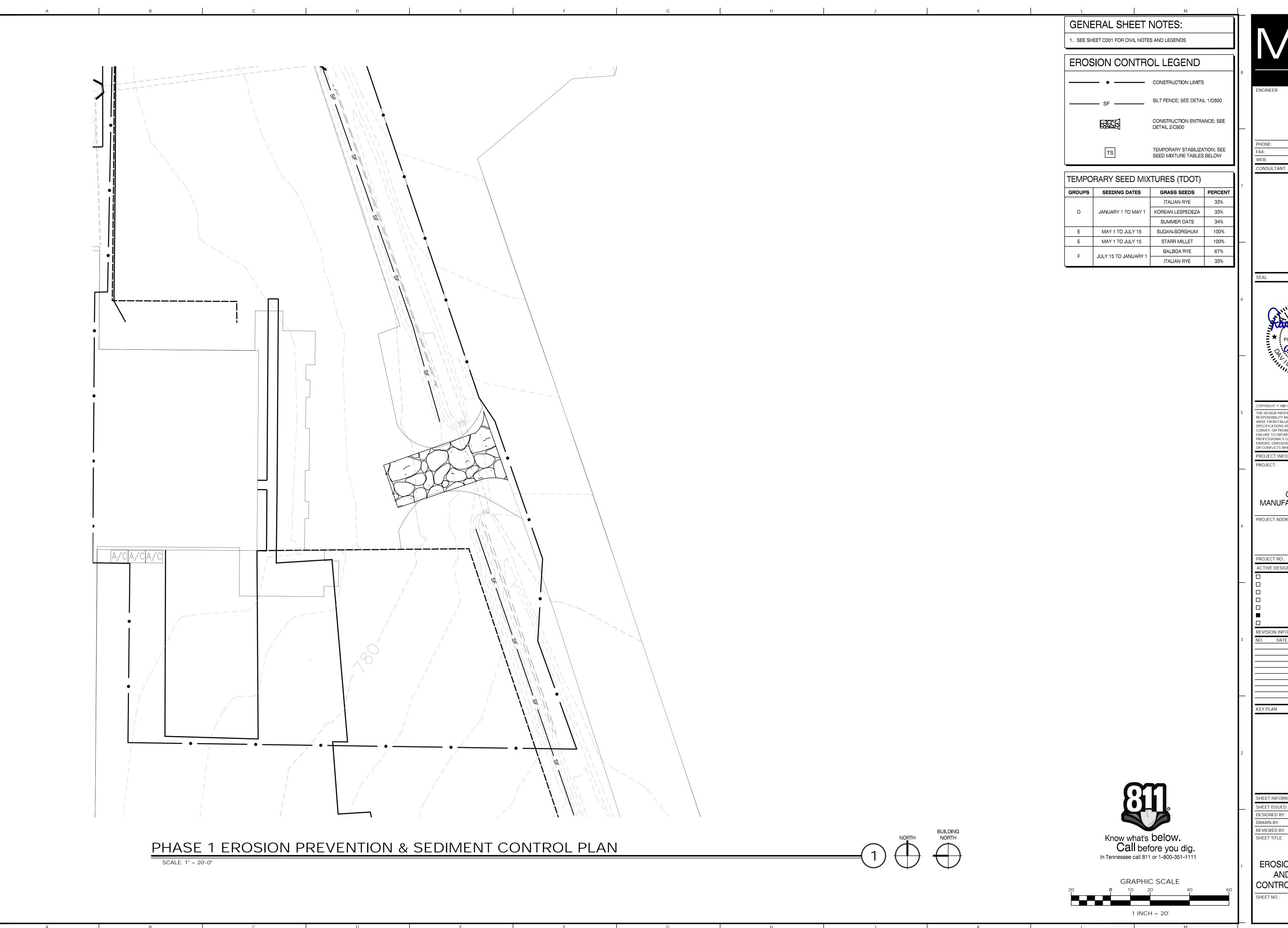
KEY PLAN

SHEET INFORMATION SHEET ISSUED: 08/23/2019 DESIGNED BY: L.S.B. RAWN BY REVIEWED BY: D.J.M SHEET TITLE:

CIVIL LEGENDS AND

SHEET NO .:

In Tennessee call 811 or 1-800-351-1111



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

(865) 584-5213 mbicompanies.com CONSULTANT



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY 944

CLAYTON 18025 COUNTY ROAD 41 ADDISON, ALABAMA 35540

FOR REVIEW ONLY SCHEMATIC DESIGN

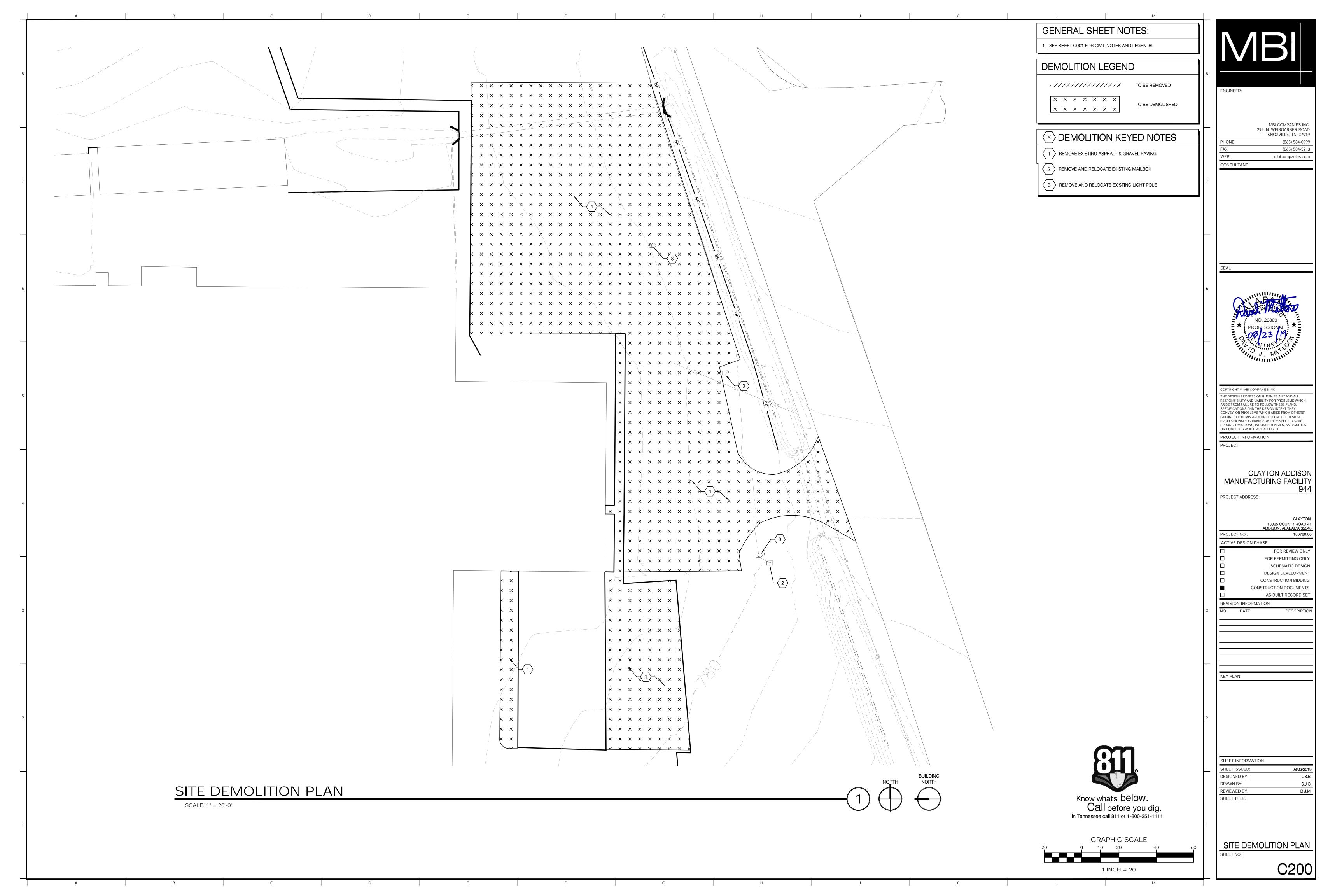
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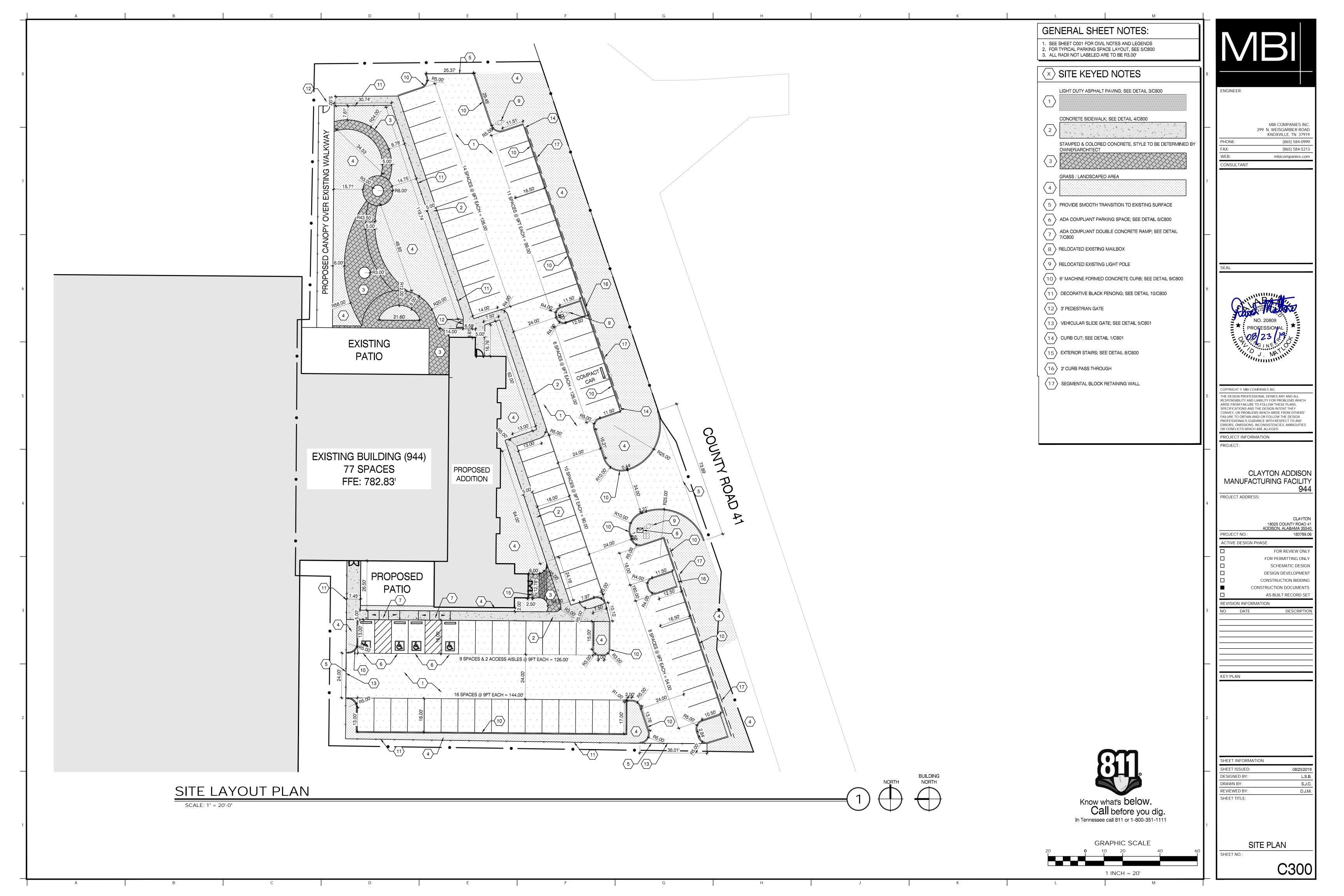
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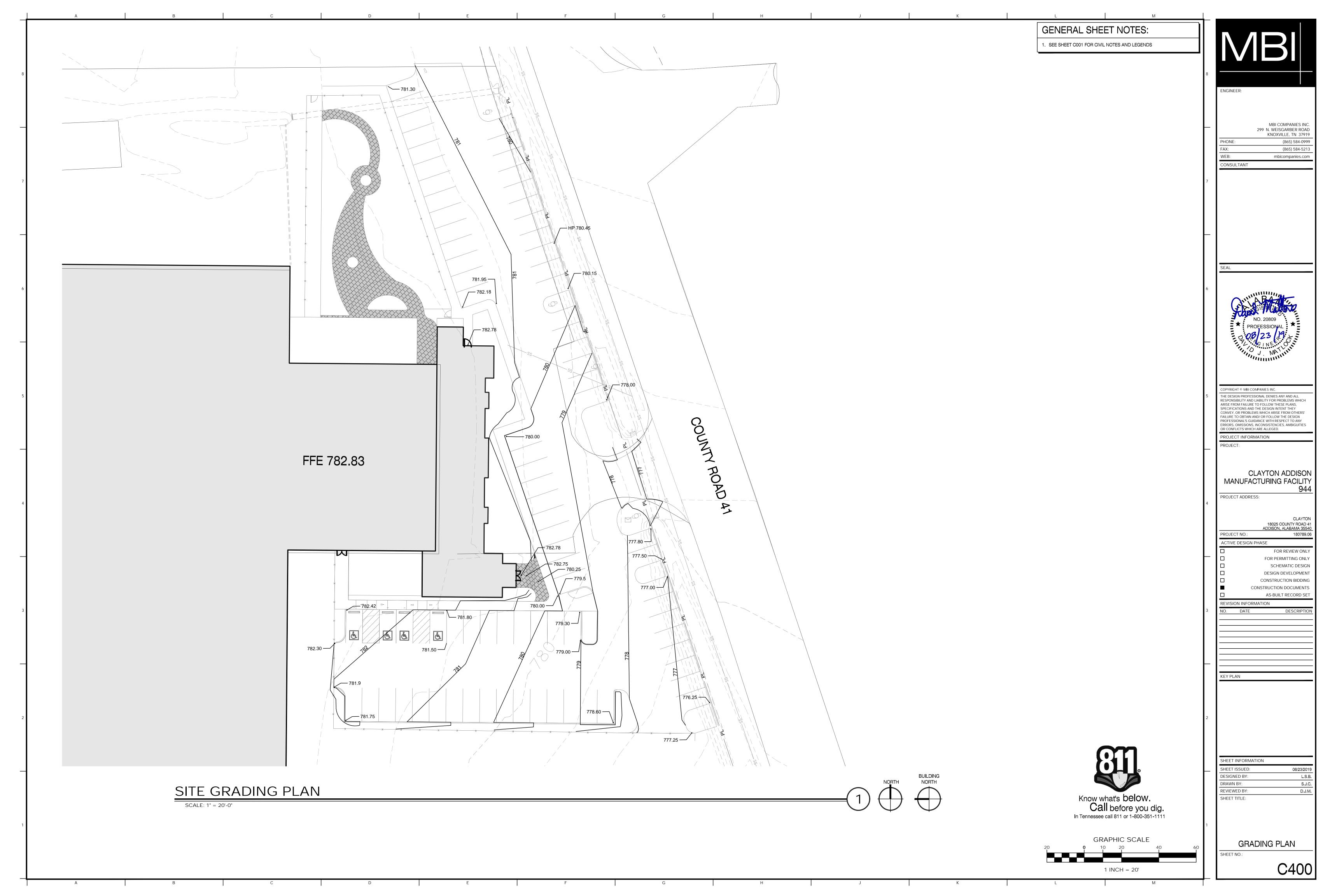
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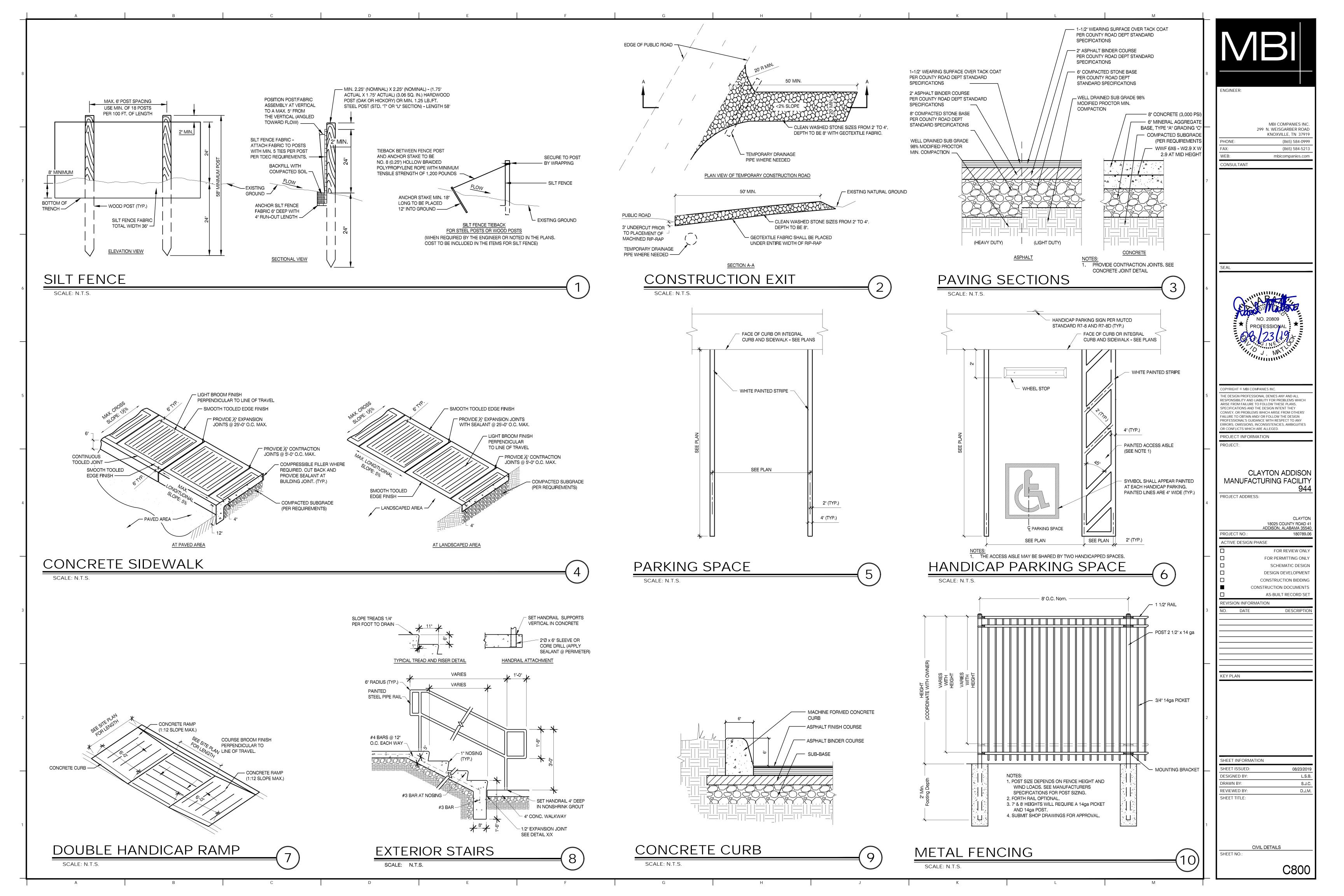
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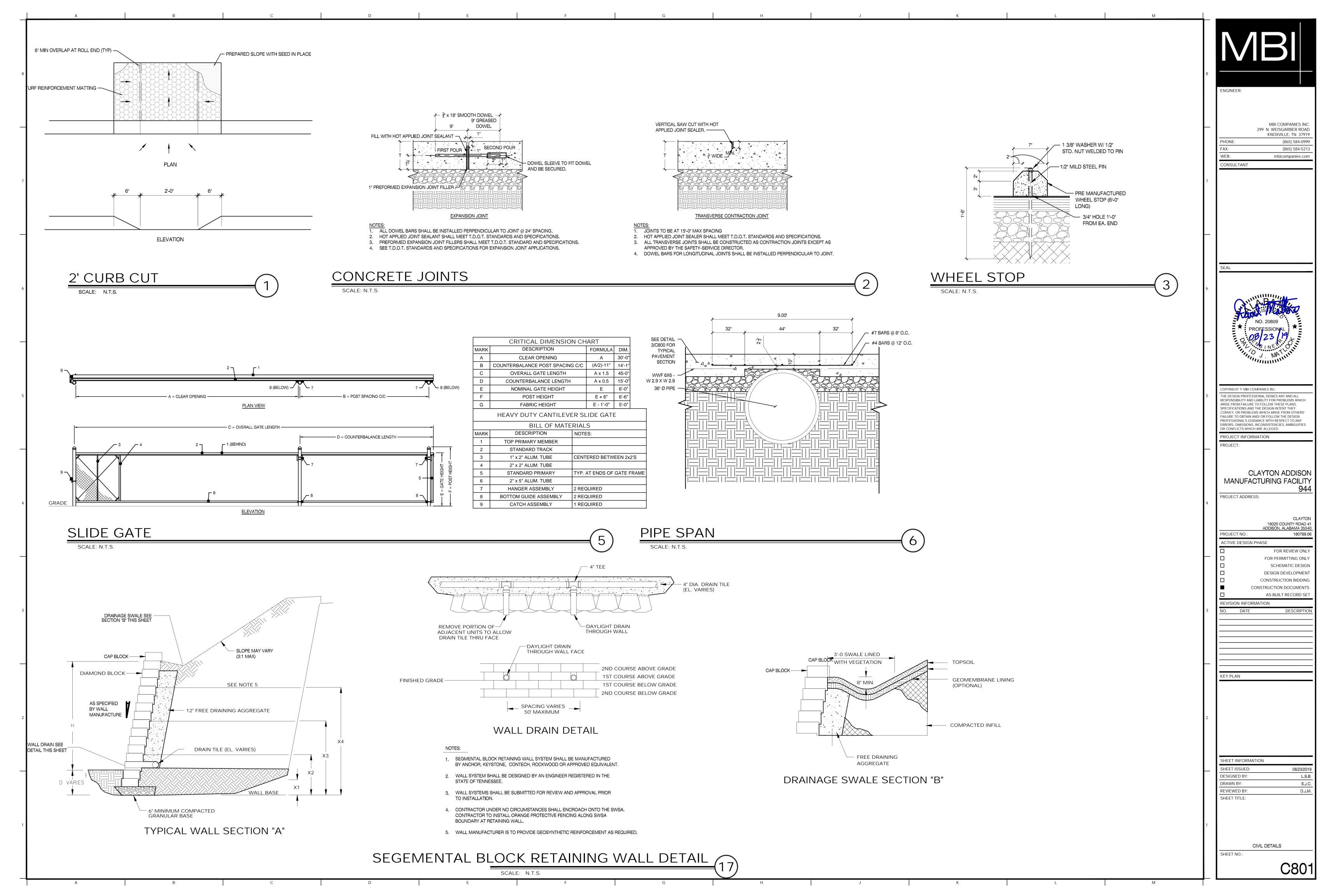
D.J.M.

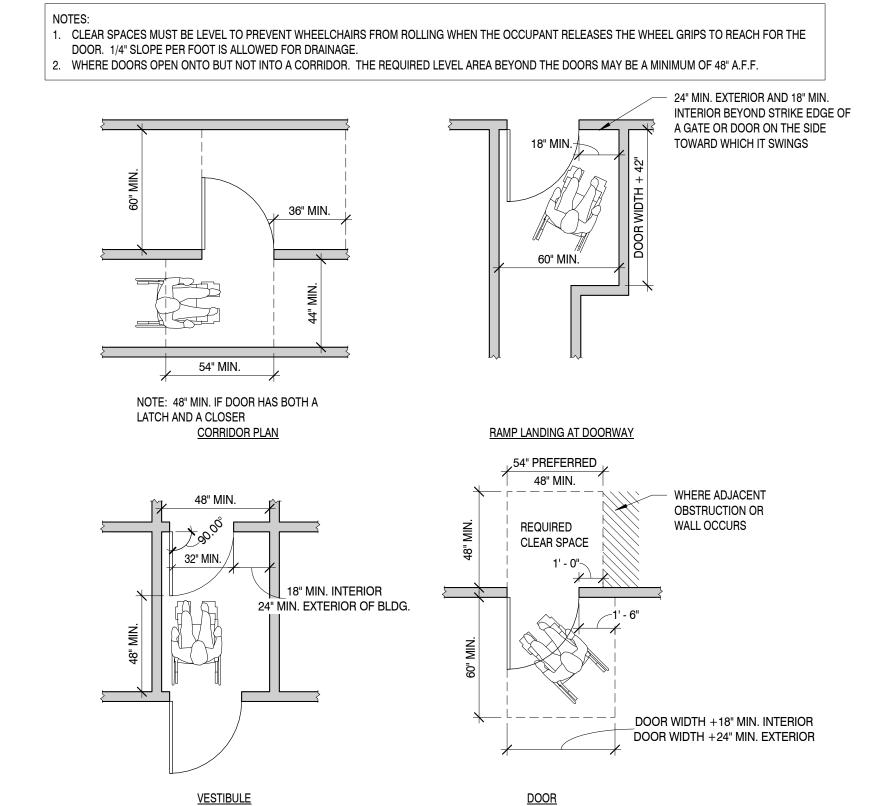




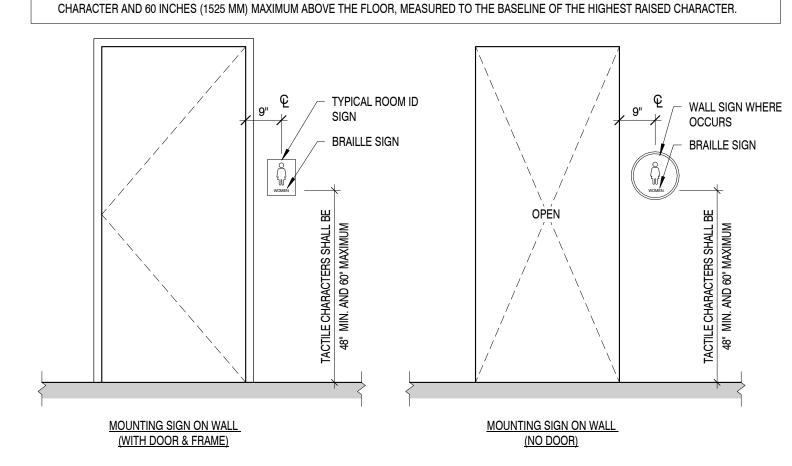








1. WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. 2. RAISED CHARACTERS SHALL BE 48 INCHES (1220 MM) MINIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST RAISED

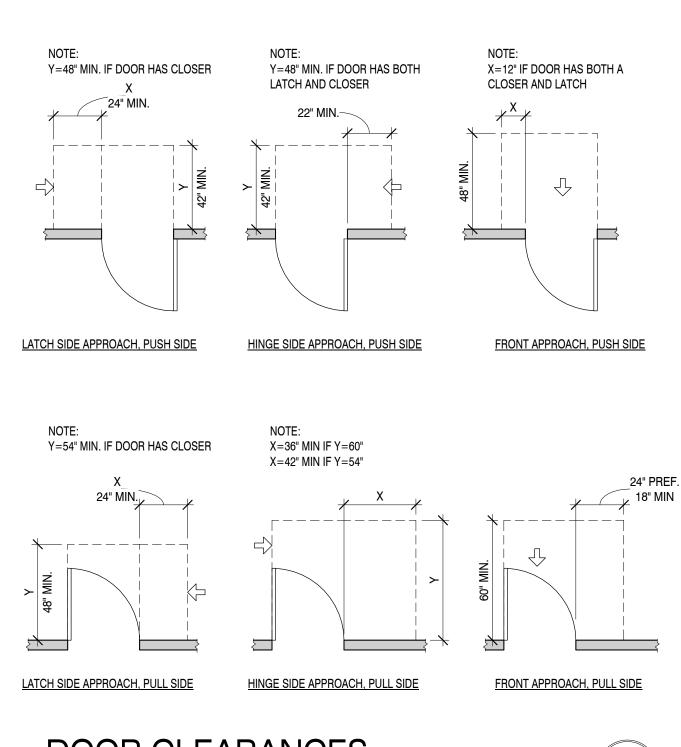


SIGNAGE NOTES AND DETAILS

CORRIDOR CLEARANCES

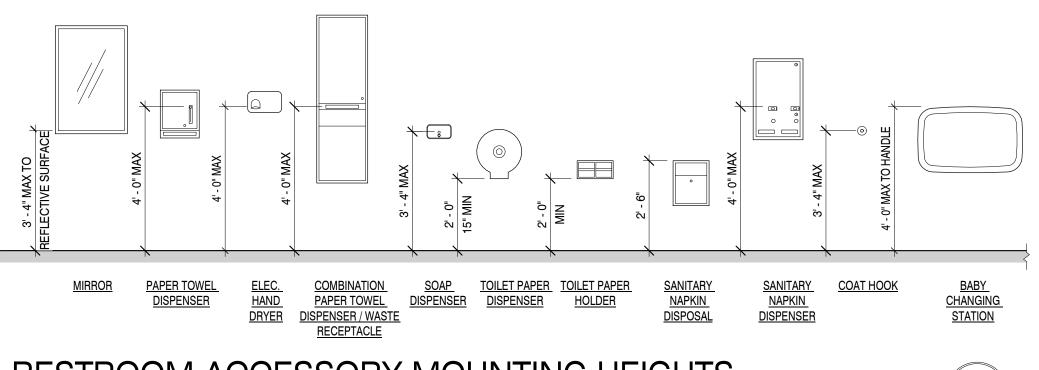
SCALE: 1/4" = 1'-0"

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



DOOR CLEARANCES

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



RESTROOM ACCESSORY MOUNTING HEIGHTS

SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS AND DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT EXCUSE HIM FROM PROVIDING A COMPLETED FACILITY AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. IN THE EVENT OF DISCREPANCIES, CONTRACTOR SHALL PRICE THE MORE EXPENSIVE AND EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

2. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. THE DRAWINGS. GENERAL NOTES AND SPECIFICATIONS ARE COMPLIMENTARY, AND WHAT IS CALLED FOR BY ANY WILL BE BINDING AS IF CALLED FOR BY ALL. WORK SHOWN OR REFERRED TO ON ANY DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS. IF THERE IS ANY CONFLICT OR DISCREPANCY WITHIN OR BETWEEN ANY OF THE CONTRACT DOCUMENTS INVOLVING THE QUALITY OR QUANTITY OF WORK REQUIRED, THE WORK OF HIGHEST QUALITY AND/OR GREATEST QUANTITY SHOWN OR SPECIFIED SHALL BE FURNISHED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION.

4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS ANNOTATED WITH THE LATEST REVISIONS AND CLARIFICATIONS FOR THE USE BY ALL.

5. 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 ALTERNATE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.

6. EXCEPT WHERE OTHERWISE SPECIFIED, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER TO MAINTAIN ALL WORK, MATERIALS, APPARATUS, AND FIXTURES FROM INJURY OR DAMAGES. AT THE END OF THE DAY'S WORK, ALL NEW WORK LIKELY TO BE DAMAGED SHALL BE COVERED OR OTHERWISE PROTECTED AS REQUIRED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE AND TOILET FOR ALL SCOPE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS. EXTENSIONS, VALVES, OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES MUST BE REMOVED AT COMPLETION OF THE PROJECT.

8. THE CONTRACTOR SHALL LIMIT THE INGRESS AND EGRESS OF WORKERS AND EQUIPMENT TO THE CONSTRUCTION SITE TO AUTHORIZED PERSONS ONLY. DAMAGE TO ANY EXISTING INTERIOR OR EXTERIOR CONSTRUCTION SHALL BE REPAIRED TO "LIKE NEW" CONDITION UNDER THIS CONTRACT.

9. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ADEQUATE SAFETY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC AND CLEAR ACCESS IN AND OUT OF THE WORK SITE SO AS TO FACILITATE DAILY TRAFFIC MOVEMENT, DELIVERIES, AND SAFETY. REMOVE BARRICADES WHEN NO LONGER REQUIRED.

10. REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS OFF-SITE. BURYING OR BURNING OF "TO BE REMOVED" MATERIALS ON THE PROJECT SITE IS FORBIDDEN.

11. COOPERATE WITH THE APPLICABLE CITY OR OTHER GOVERNMENT OFFICIALS AND INSPECTORS AT ALL TIMES. IF SUCH OFFICIAL OR INSPECTOR DEEMS SPECIAL INSPECTION NECESSARY, PROVIDE ALL ASSISTANCE AND FACILITIES THAT WILL EXPEDITE HIS INSPECTION.

12. ALL DETAILS OF CONSTRUCTION SHALL CONFORM WITH THE APPLICABLE CODES (SEE PROJECT INFORMATION ON COVER SHEET)

13. PROVIDE HIGH SECURITY SURFACE MOUNTED BOX W/ TAMPER SWITCH (FIRE DEPARTMENT KEY BOX) AT THE ENTRANCE. THREE COMPLETE SETS OF KEYS MUST BE PROVIDED. KEYS MUST BE PROVIDED FOR ALL ROOMS CONTAINING FIRE AND LIFE SAFETY SYSTEM CONTROLS. PRIOR TO INSTALLATION VERIFY EXACT LOCATION AND EXACT TYPE OF BOX REQUIRED WITH LOCAL AUTHORITY HAVING JURISDICTION.

14. MOUNT FIRE EXTINGUISHERS LISTED IN SPECIFICATIONS AT LOCATIONS SHOWN AND/OR DIRECTED BY FIRE DEPARTMENT CODE OFFICIAL HAVING JURISDICTION.

15. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS, UNLESS OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE, AS A MINIMUM STANDARD, WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.

16. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS. EQUIPMENT AND APPURTENANCES. AND LABOR NECESSARY TO AFFECT ALL INSTALLATIONS INDICATED ON THE DRAWINGS. THE WORK SHALL ALSO INCLUDE ALL MATERIALS, DETAIL AND LABOR NECESSARY FOR THE SUCCESSFUL INSTALLATION OF THE WORK DESCRIBED HEREIN.

17. ALL DIMENSIONS ARE TO FACE OF CONC. BLOCK, CONC. PANEL, FACE OF EXISTING FINISH, OR FACE OF NEW STUD,

UNLESS OTHERWISE NOTED. "CLEAR" DENOTES FINISH TO FINISH DIMENSIONS.

18. CONTRACTOR IS TO COORDINATE THE BUILDING PLANS WITH THE CIVIL AND SURVEY DRAWINGS FOR EXACT ELEVATIONS AND SLOPES OF EXTERIOR GRADES FOR INSTALLATION OF NEW EXTERIOR STAIRS, RAMPS AND SIDEWALKS. CONTRACTOR TO FIELD VERIFY EXTERIOR GRADES AT BUILDING ENTRANCES TO ALIGN WITH FINISHED FLOOR ELEVATIONS AND/OR NEW STAIR/RAMP ELEVATIONS. GRADING AT BUILDING PERIMETER TO SLOPE AWAY FROM BUILDING MIN. 1/4" PER

19. ALL GRADES, LINES, LEVELS, AND DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY ERROR OR INCONSISTENCY SHALL BE REPORTED TO THE ARCHITECT FOR INSTRUCTIONS PRIOR TO START OF CONSTRUCTION.

20. CONTRACTOR IS TO FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS.

21. CONTRACTOR IS TO FIELD VERIFY LOCATIONS AND RUNS OF ALL NEW AND EXISTING STORM SEWER PIPING AND ROOF TIE-INS. REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO START OF CONSTRUCTION.

22. DO NOT INTERRUPT EXISTING UTILITIES IN OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY

23. CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK. JOIN MATERIALS TO UNIFORM ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT THE ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE.

24. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS. ANY DIFFERENCES BETWEEN DIMENSIONS INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR INSTRUCTIONS AND CONSIDERATIONS BEFORE PROCEEDING

25. FURNISH AND INSTALL ALL REQUIRED BACKING FOR ALL SHELVES, CABINETS, FIXTURES, HANDRAILS AND EQUIPMENT. COORDINATING WITH OWNER AND CONTRACTOR FOR EXACT SIZE, NUMBER, AND LOCATION PRIOR TO START OF CONSTRUCTION. METAL BACKING PLATES TO BE FLAT STOCK (20 GAUGE MIN.) WHEN APPLIED TO METAL FRAMING. ALL WOOD BLOCKING, NAILERS, ETC. MUST BE FIRE RETARDANT TREATED.

26. GLAZING IN DOORS AND ADJACENT PANELS MUST BE TEMPERED. RESPONSIBILITY OF GLAZING SUBCONTRACTOR TO VERIFY & PLACE TEMPERED GLASS AS REQUIRED BY THE LOCAL BUILDING CODE & INSPECTOR.

27. SPOUT OUTLETS FOR WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36" MAX A.F.F. AND FOR STANDING PERSONS SHALL BE 38" MIN A.F.F. AND 43" MAX. A.F.F.

28. PROVIDE WATER RESISTANT & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS.

WALL A MIN. OF 4" A.F.F.

29. FILL ALL C.M.U. CELLS BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS HIGHER SHALL BE SOLID GROUTED.

30. PROVIDE ADA COMPLIANT SIGNAGE AT ALL TOILET AND BATHROOMS. APPROPRIATELY IDENTIFIED AS "MEN" AND

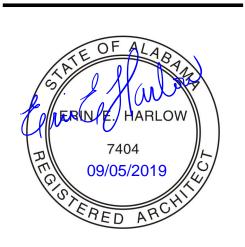
31. ALL TOILET ROOMS AND BATHROOMS WALLS SHALL EXTEND FROM FINISH FLOOR TO FLOOR/ ROOF DECK ABOVE. PROVIDE SOUND BATT INSULATION IN ENTIRE STUD CAVITY.

32. ALL WALLS WITHIN 24" OF SERVICE SINK, URINAL AND/ OR WATER CLOSET SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 48" A.F.F. IF TILE OR FRP IS NOT SPECIFIED PROVIDE EPOXY PAINT, COLOR TO BE SELECTED BY ARCHITECT.

33. ALL WALL BASE IN TOILET ROOMS, BATHROOMS AND KITCHENS SHALL BE COVED AND EXTEND UPWARD ONTO THE

MBI COMPANIES INC 299 N. WEISGARBER ROAD KNOXVILLE, TN 3791 PHONE (865) 584-0999 (865) 584-521

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PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY

RRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES

OR CONFLICTS WHICH ARE ALLEGED PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI

ADDISON, AL 3554 PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

REVISION INFORMATION

KEY PLAN

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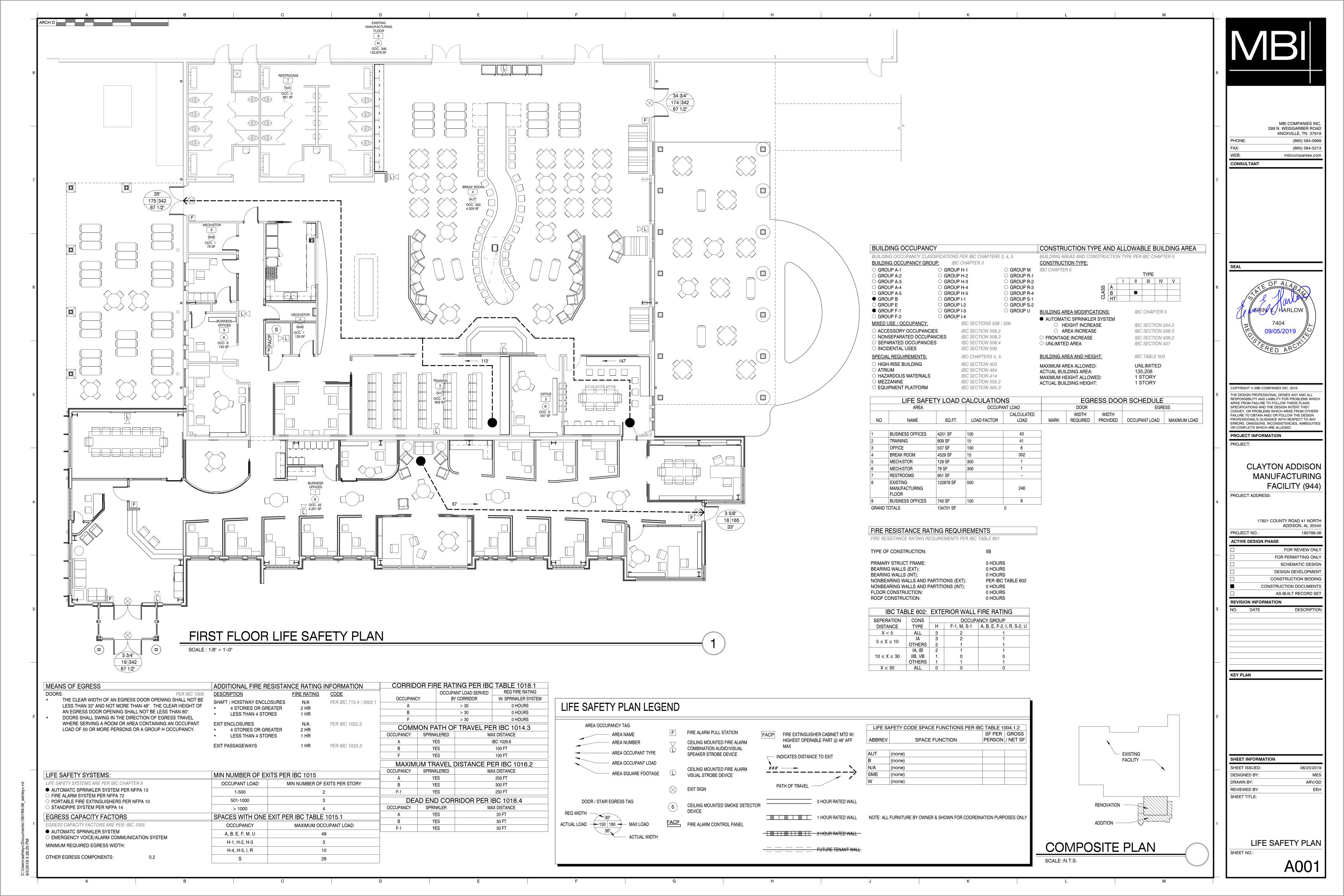
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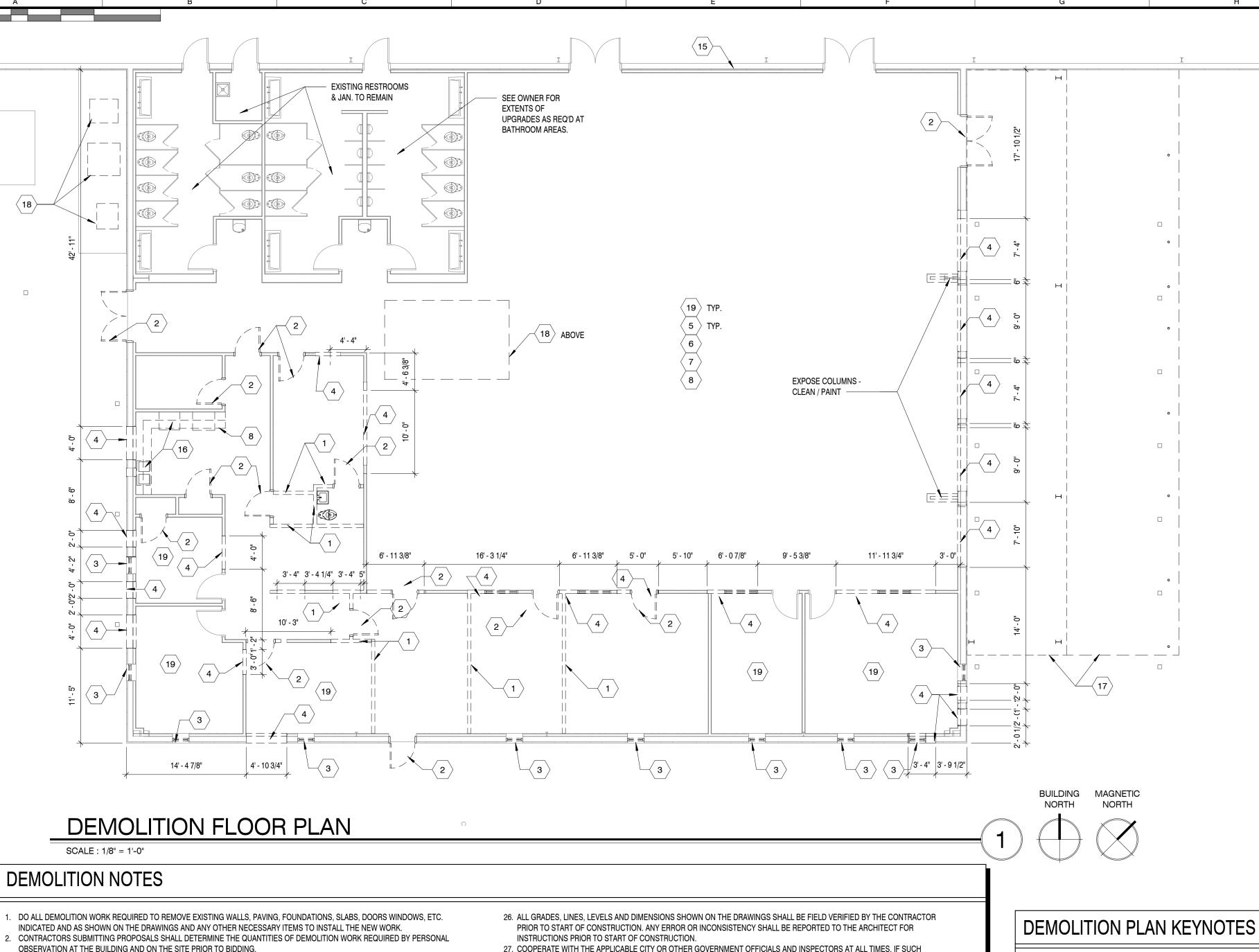
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DETAILS





- DO ALL DEMOLITION WORK REQUIRED TO REMOVE EXISTING WALLS, PAVING, FOUNDATIONS, SLABS, DOORS WINDOWS, ETC.
- MAINTAIN TEMPORARY BARRICADES FOR THE PROTECTION OF JOB PERSONNEL AND THE PUBLIC. REMOVEBARRICADES WHEN NO LONGER REQUIRED.
- PROMPTLY REPAIR ANY DAMAGES CAUSED BY DEMOLITION WORK AT NO COST TO THE OWNER. 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 ALTERNATE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS
- REQUIRED BY LOCAL REGULATIONS. THE USE OF EXPLOSIVES IS NOT REQUIRED BY THE SCOPE OF WORK AND IS STRICTLY PROHIBITED.
- EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING DEMOLITION
- DO NOT INTERRUPT EXISTING UTILITIES USED FOR OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES WHO HAVE JURISDICTION. IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO
- GOVERNING AUTHORITIES. TO THE GREATEST EXTENT PRACTICABLE, LIMIT THE SPREAD OF DUST AND DIRT THROUGH THE USE OF WATER SPRINKLING, ENCLOSURES, AND OTHER SUITABLE METHODS. COMPLY WITH GOVERNING REGULATIONS WITH RESPECT TO ENVIRONMENTAL PROTECTION.
- HISTORIC ARTIFACTS, INCLUDING CORNERSTONES, THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, ANTIQUES, AND OTHER ARTICLES OF HISTORIC SIGNIFICANCE SHALL REMAIN THE PROPERTY OF THE OWNER. NOTIFY OWNER'S REPRESENTATIVES IF SUCH ARTICLES ARE ENCOUNTERED. OBTAIN APPROVAL REGARDING METHOD OF REMOVAL. SALVAGE SUCH ARTICLES AND TURN THEM OVER TO THE OWNER.
- 1. REMOVE DEBRIS, RUBBISH AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS
- 12. BURYING OF TO BE REMOVED MATERIALS ON THE PROJECT SITE IS PROHIBITED.
- 13. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH APPLICABLE REGULATIONS IN HANDLING, REMOVING, AND
- PROTECTING AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. 14. BURNING OF REMOVED MATERIALS ON THE PROJECT SITE IS PROHIBITED.
- 15. STRUCTURES NOTED FOR DEMOLITION WORK SHALL BE AVAILABLE FOR DEMOLITION UPON AWARD OF CONTRACT.
- 16. AVAILABILITY FOR DEMOLITION MUST BE CONFIRMED BY OWNER 48 HOURS PRIOR TO DEMOLITION.
- 17. CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITIONWORK 18. THE CONTRACTOR SHALL OBSERVE EXISTING CONDITIONS AND SHALL TAKE SUCH PRECAUTIONS AS NECESSARY. INCLUDING THE PLACEMENT OF TEMPORARY SHORING TO SUPPORT THE BUILDING STRUCTURE IF NECESSARY UNTIL NEW SUPPORTING
- 19. G.C. IS TO COORDINATE WITH OWNER'S REPRESENTATIVE ON ALL THE REMOVAL, REPLACEMENT AND/OR REUSE OF ANY
- EXISTING EQUIPMENT AND FIXTURES, BEFORE DEMOLITION. 20. WHERE EXISTING WALLS, DOORS, WINDOWS, COVERINGS, FLOORS, ETC. ARE TO BE REMOVED, THE CONTRACTOR SHALL REPAIR, LEVEL AND SMOOTH THE MALL SURFACES REMAINING TO RECEIVE NEW FINISHES.
- 1. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN PERFORMING DEMOLITION TO PREVENT THE SPREAD OF DUST AND DEBRIS AND TO PROTECT EXISTING MATERIALS AND FINISHES FROM DAMAGE.
- 22. CONTRACTOR TO REMOVE ANY AND ALL EXISTING TRIM, WALL COVERING, INSULATION AND ANY OTHER ITEMS NOT NOTED TO BE DEMOLISHED/REMOVED, PRIOR TO NEW CONSTRUCTION, VERIFY W/OWNER AND ARCHITECT PRIOR TO BIDDING AND PRIOR
- TO DEMOLITION FOR ALL ITEMS TO BE REMOVED. 23. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS
- AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. 24. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES AND LABOR NECESSARY

TO AFFECT ALL INSTALLATIONS INDICATED ON THE DRAWINGS. THE WORK SHALL ALSO INCLUDE ALL MATERIALS, DETAIL AND

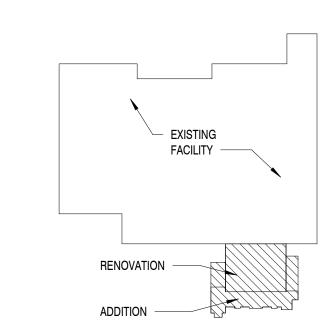
LABOR NECESSARY FOR THE SUCCESSFUL INSTALLATION OF THE WORK DESCRIBED HEREIN. i. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS. ANY DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR INSTRUCTIONS AND CONSIDERATIONS BEFORE PROCEEDING WITH THE WORK.

- 27. COOPERATE WITH THE APPLICABLE CITY OR OTHER GOVERNMENT OFFICIALS AND INSPECTORS AT ALL TIMES. IF SUCH OFFICIAL OR INSPECTOR DEEMS SPECIAL INSPECTIONS NECESSARY, PROVIDE ALL ASSISTANCE AND FACILITIES THAT WILL
- 28. COOPERATE WITH THE APPLICABLE CITY OR OTHER GOVERNMENT OFFICIALS AND INSPECTORS AT ALL TIMES. IF SUCH OFFICIAL OR INSPECTOR DEEMS SPECIAL INSPECTIONS NECESSARY, PROVIDE ALL ASSISTANCE AND FACILITIES THAT WILL
- 29. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURES
- RECOMMENDED SPECIFICATIONS, UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. 30. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE, AS A MINIMUM STANDARD, WITH ALL
- APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION, CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE (W/FAX), TOILET, WATER, AND ELECTRICITY FOR ALL PROJECT FUNCTIONS.
- 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS, EXTENSIONS, VALUES, OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES MUST BE REMOVED AT COMPLETION OF THE PROJECT.
- 33. THE CONTRACTOR SHALL LIMIT THE INGRESS AND EGRESS OF WORKERS AND EQUIPMENT TO THE CONSTRUCTION SITE TO AUTHORIZED PERSONS ONLY. DAMAGE TO EXISTING INTERIOR OR EXTERIOR CONSTRUCTION SHALL BE REPAIRED TO "LIKE NEW" CONDITIONS UNDER THIS CONTRACT.
- 34. EXCEPT WHERE OTHERWISE SPECIFIED, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER TO MAINTAIN ALL WORK MATERIALS, APPARATUS AND FIXTURES FOR INJURY OR DAMAGES. AT THE END OF THE DAY'S WORK, ALL NEW WORK LIKELY TO BE DAMAGED SHALL BE COVERED OR OTHERWISE PROTECTED AS REQUIRED.
- 35. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ADEQUATE SAFETY BARRICADES AND CLEAR ACCESS IN AND OUT OF THE WORK SITE SO AS TO FACILITATE DAILY TRAFFIC MOVEMENT, DELIVERIES, AND SAFETY. 36. THE CONTRACTOR SHALL INCLUDE ALL DEMOLITION REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION AS INDICATED. 37. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY
- RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 38. DETAILS ARE INTENDED TO SHOW END RESULT DESIGNS. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. 39. CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK. JOIN MATERIALS TO UNIFORM ACCURATE FITS TO THEY
- MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS. INSTALL EXPOSED APPROPRIATELY LEVEL, PLUMB AND AT THE ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE. 40. GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS ANNOTATED WITH
- THE LATEST REVISIONS AND CLARIFICATIONS FOR THE USE BY ALL. 41. THE DRAWINGS, SPECIFICATIONS AND GENERAL NOTES ARE COMPLIMENTARY, AND WHAT IS CALLED FOR BY ANY WILL BE BINDING AS IF CALLED FOR BY ALL. WORK SHOWN OR REFERRED TO ON ANY DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS. WHEN THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS,
- GENERAL CONTRACTOR SHALL PROVIDE THE GREATER QUALITY AND HIGHEST QUALITY OF WORK INDICATED. 42. THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS AND DISCREPANCIES IN THE DRAWING AND SPECIFICATIONS SHALL NOT EXCUSE HIM FROM PROVIDING A COMPLETED FACILITY AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. IN THE EVENT OF DISCREPANCIES, CONTRACTOR SHALL PRICE THE MORE
- EXPENSIVE OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE. 43. GENERAL CONTRACTOR TO SCHEDULE AND CONTROL DEMOLITION OF ALL EXISTING ISSUES OR MATERIALS, TO COINCIDE WITH CONSTRUCTION SCHEDULE. CONTRACTOR TO VERIFY W/OWNERS PRIOR TO AND DURING BIDDING AND CONSTRUCTION FOR DEMOLITION OF ALL ITEMS AND COORDINATION OF DEMOLITION OF ITEMS.
- 44. ALL EFFORTS HAVE BEEN MADE TO NOTE TO TAG ALL ITEMS THAT ARE TO BE REMOVED OR DEMOLISHED PRIOR TO OR DURING CONSTRUCTION. GENERAL CONTRACTOR TO PROVIDE A LIST OF ALL ITEMS TO BE DEMOLISHED AND TO COORDINATE WITH A MEETING BETWEEN THE OWNER. ARCHITECT AND CONTRACTOR TO VERIFY ANY AND ALL ADDITIONAL ITEMS TO BE REMOVED. VERIFY W/ CONSTRUCTION DOCUMENTS FOR LOCATION OF NEW WALLS, MILLWORK OR NEW CONSTRUCTION ITEMS AND COORDINATE INSTALLATION AROUND EXISTING BUILDING/CONSTRUCTION.

- EXISTING PARTITION/ WALL TO BE REMOVED. EXISTING DOOR AND FRAME TO BE REMOVED

REMOVED TYPICAL THROUGH OUT RENOVATION AREA.

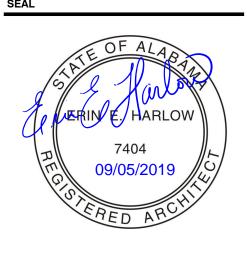
- EXISTING WINDOW AND FRAME TO BE REMOVED.
- PORTION OF EXISTING WALL TO BE REMOVED TO ALLOW FOR NEW DOOR/ WINDOW OPENING. EXISTING GYP. BD. CEILING. ALUMINUM SLAT SOFFIT. AND/OR ACOUSTICAL CEILING TILE AND GRID TO BE
- EXISTING LIGHT FIXTURES IN THIS AREA TO BE REMOVED TYPICAL THROUGH OUT RENOVATION AREA. EXISTING FLOOR FINISH TO BE REMOVED IN THIS AREA TYPICAL THROUGH OUT RENOVATION AREA.
- EXISTING MILLWORK TO BE REMOVED.
- 9. EXISTING STOREFRONT TO BE REMOVED. 10. EXISTING HVAC REGISTERS AND/OR DIFFUSERS TO BE REMOVED TYPICAL THROUGH OUT RENOVATION AREA.
- 11. EXISTING SPRINKLER HEADS TO BE REMOVED TYPICAL THROUGH OUT RENOVATION AREA. 12. EXISTING EXHAUST FANS TO BE REMOVED TYPICAL THROUGH OUT RENOVATION AREA.
- -13. EXISTING MEZZANINE STAIRS TO REMAIN.
- -14. EXISTING STEEL COLUMN TO BE REMOVED.
- 15. EXISTING FIRE RATED WALL TO REMAIN. 16. EXISTING KITCHEN CABINETRY, PLUMBING FIXTURES, EQUIP., ETC. TO BE REMOVED.
- 17. EXISTING STEEL AND ALUMINUM CANOPIES AND STRUCTURE TO BE REMOVED.
- 18. EXISTING MECHANICAL CONDENSOR UNITS TO BE REMOVED.



DEMOLITION PLAN SHEET NO .:

MBI COMPANIES INC 299 N. WEISGARBER ROAD KNOXVILLE, TN 3791 (865) 584-0999 (865) 584-521

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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554

DESCRIPTIO

PROJECT NO.: 180789.06 **ACTIVE DESIGN PHASE** FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

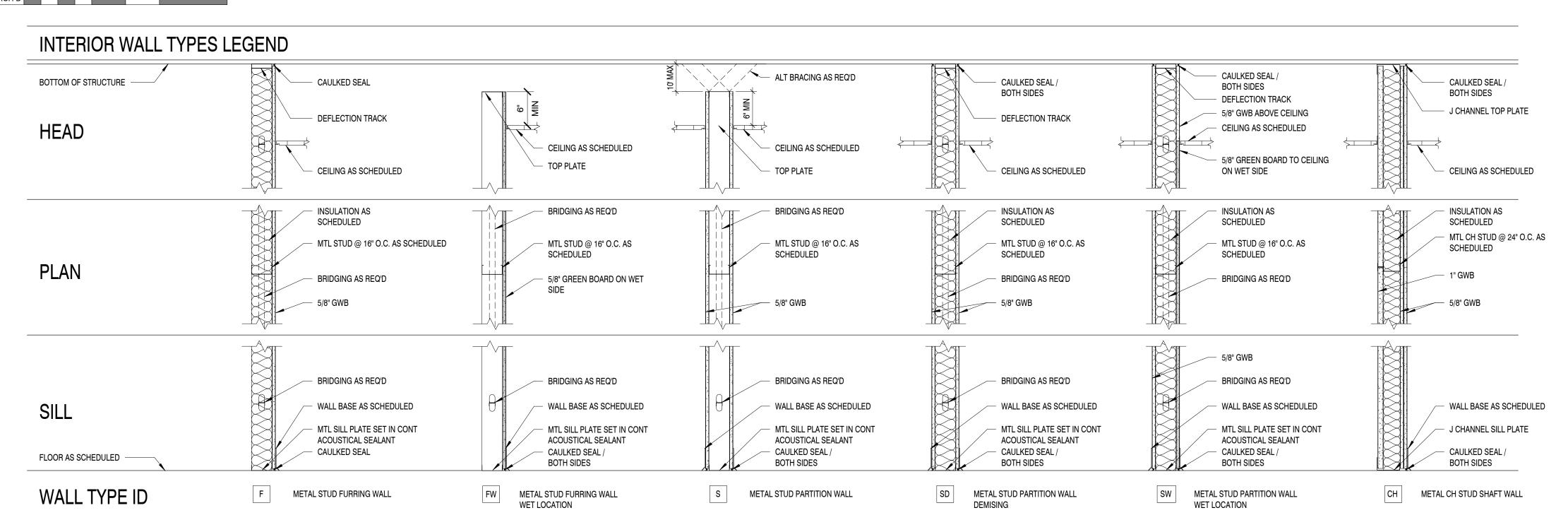
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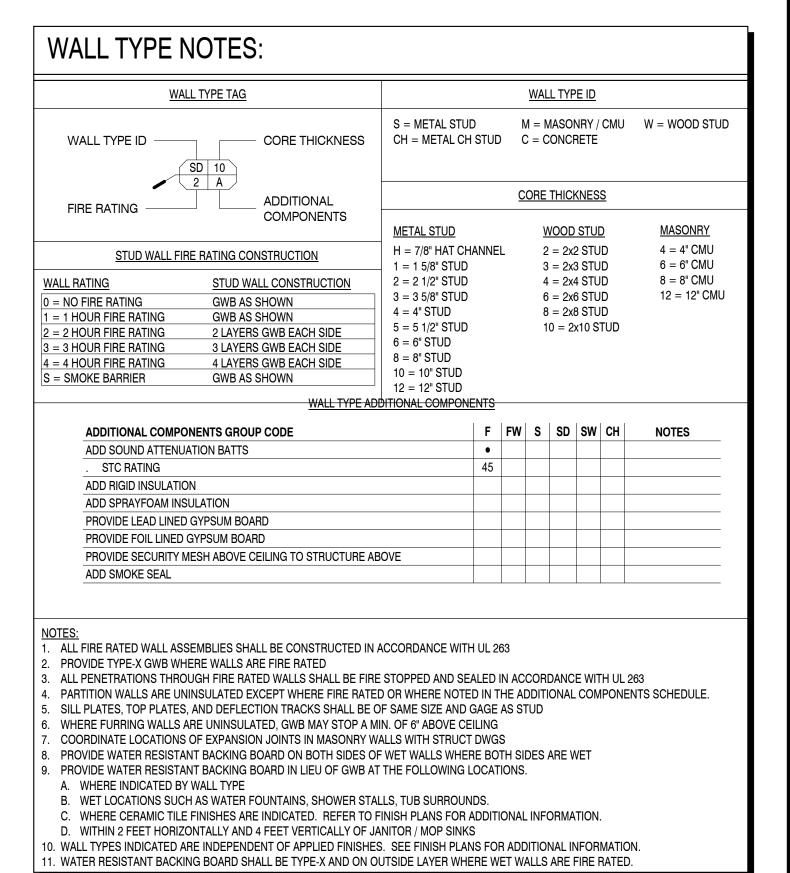
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SHEET INFORMATION

SHEET TITLE:

SHEET ISSUED 08/23/201 DESIGNED BY: ARV/GD DRAWN BY: REVIEWED BY:







SEAL



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PROJECT:

OR CONFLICTS WHICH ARE ALLEGED.

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

ADDISON, AL 35540
PROJECT NO.: 180789.06

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SCHEMATIC DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION BIDDING
CONSTRUCTION DOCUMENTS
AS-BUILT RECORD SET

O. DATE

KEY PLAN

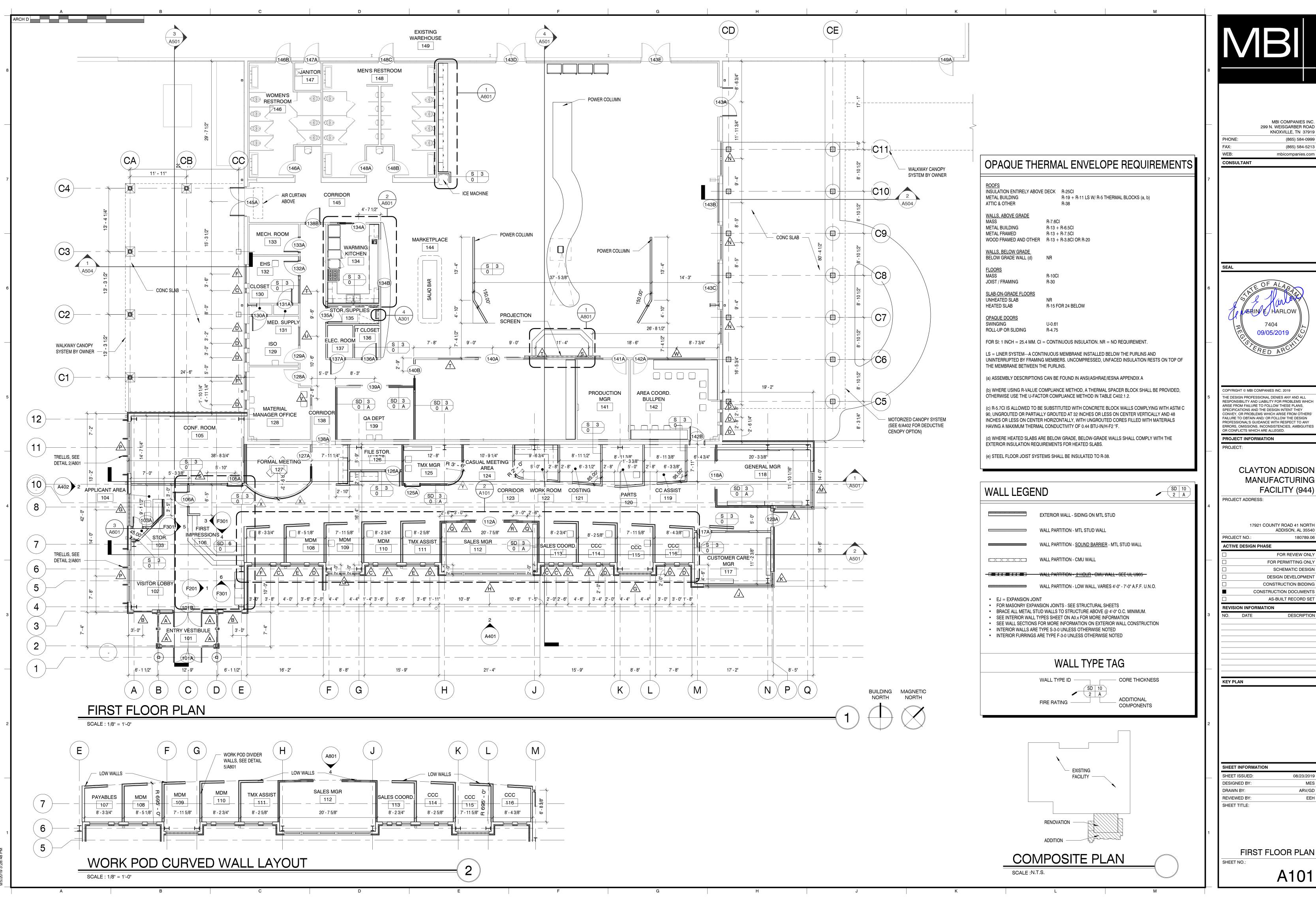
SHEET INFORMATION
SHEET ISSUED:

DESIGNED BY: MES
DRAWN BY: ARV/GD
REVIEWED BY: EEH
SHEET TITLE:

INTERIOR WALL TYPES

A003

08/23/2019

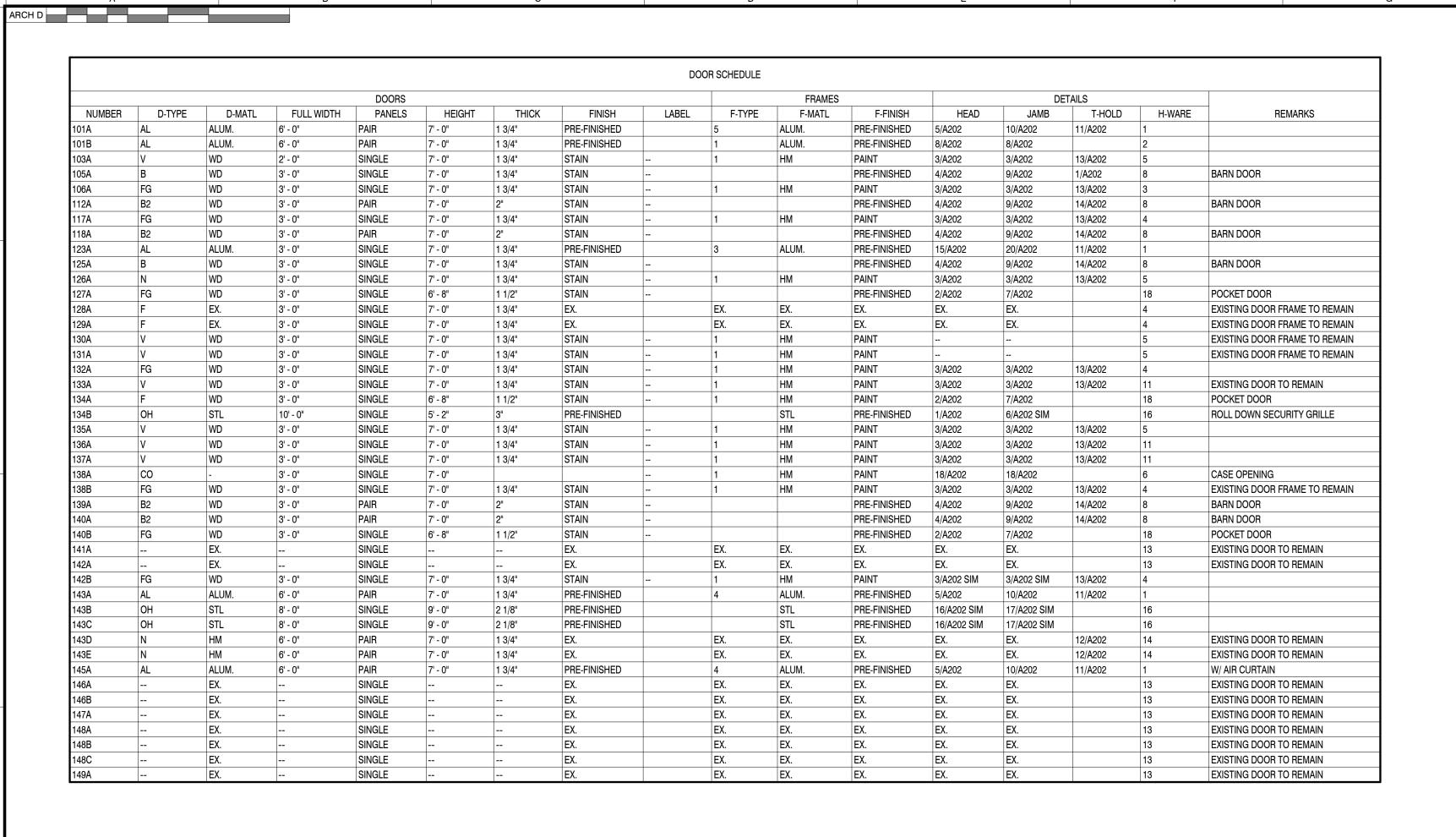


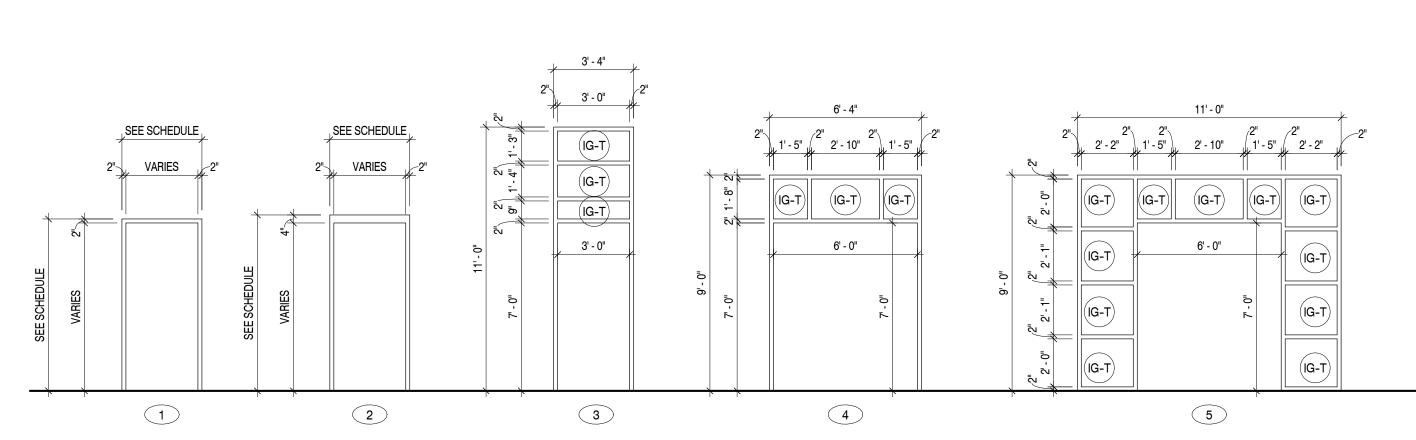
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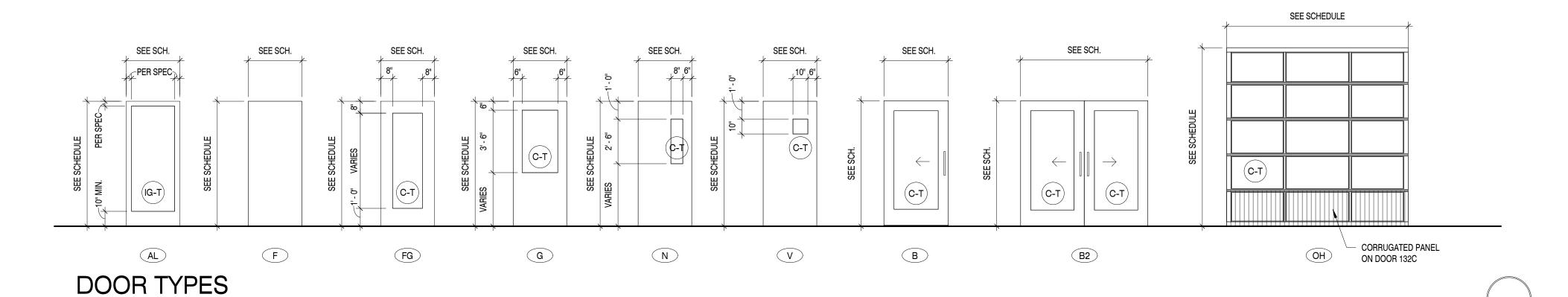




DOOR FRAME TYPES

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

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



GENERAL DOOR NOTES

- 1. INTERIOR WOOD DOORS TO BE FACTORY FINISH. WOOD SPECIES TO BE ROTARY CUT BIRCH.
- 2. EXTERIOR HOLLOW METAL DOORS ARE TO BE INSULATED.
- 3. EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE FACTORY PRIMED AND FIELD PAINTED.
- 4. COORDINATE MASTER KEYING WITH OWNER.

GLAZING SCHEDULE



C-T 1/4" CLEAR GLASS, FULLY TEMPERED

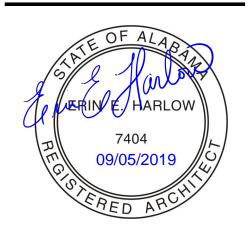
(IG-T) 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO 1/4" LITES, FULLY TEMPERED

KNOXVILLE, TN 37919
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FAX: (865) 584-5213
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OR CONFLICTS WHICH ARE ALLEGED.

PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

FOR REVIEW ONLY

17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554 PROJECT NO.: 180789.0 ACTIVE DESIGN PHASE

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SCHEMATIC DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION BIDDING
CONSTRUCTION DOCUMENTS
AS-BUILT RECORD SET

REVISION INFORMATION

KEY PLAN

SHEET INFORMATION
SHEET ISSUED:

DESIGNED BY:
DRAWN BY:
REVIEWED BY:
SHEET TITLE:

DOOR SCHEDULE, DOOR/FRAME ELEVATIONS & DETAILS

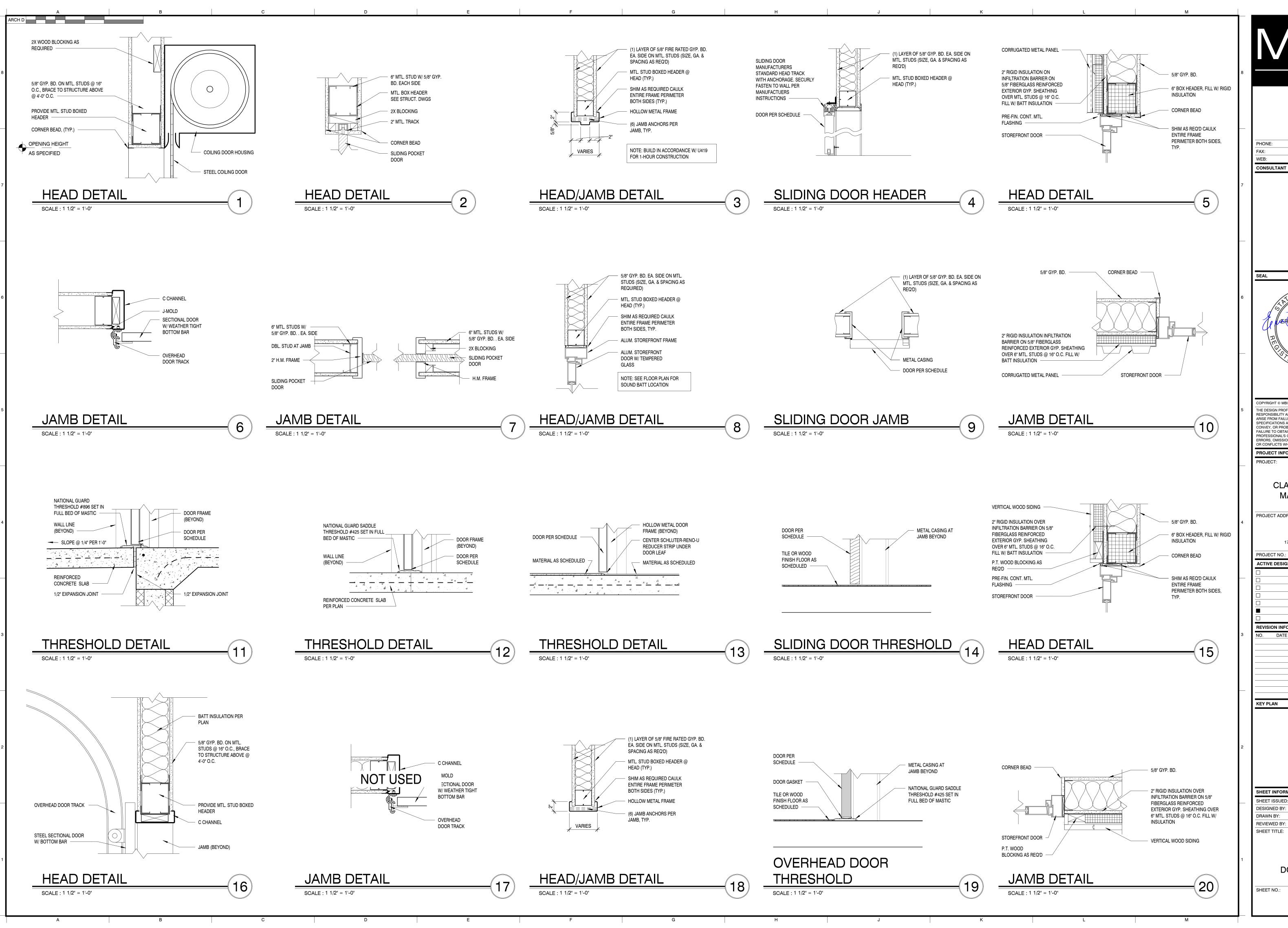
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CLAYTON ADDISON

MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI

ADDISON, AL 3554 180789.06 ACTIVE DESIGN PHASE

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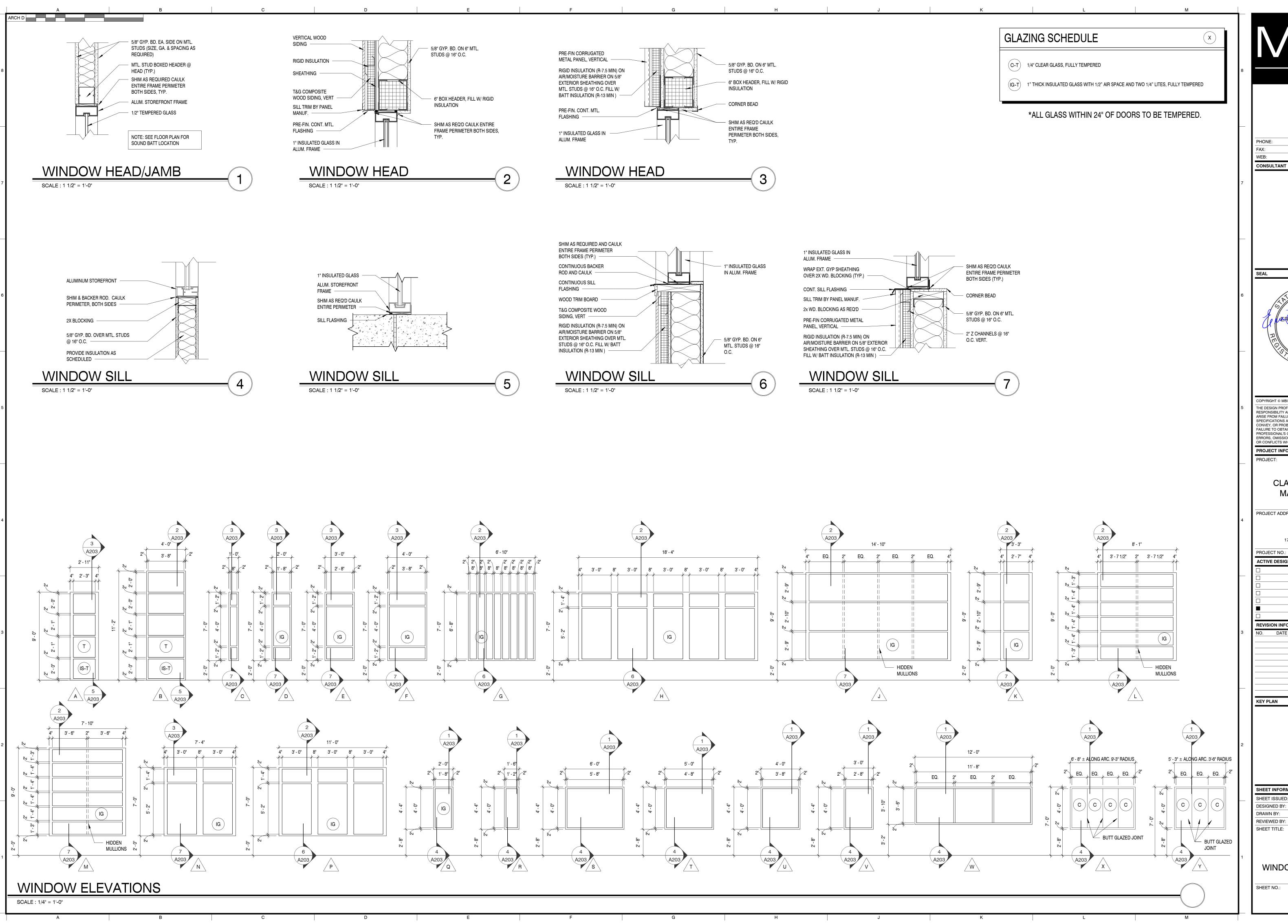
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> **DOOR & WINDOW** DETAILS

> > A202



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI

ADDISON, AL 3554

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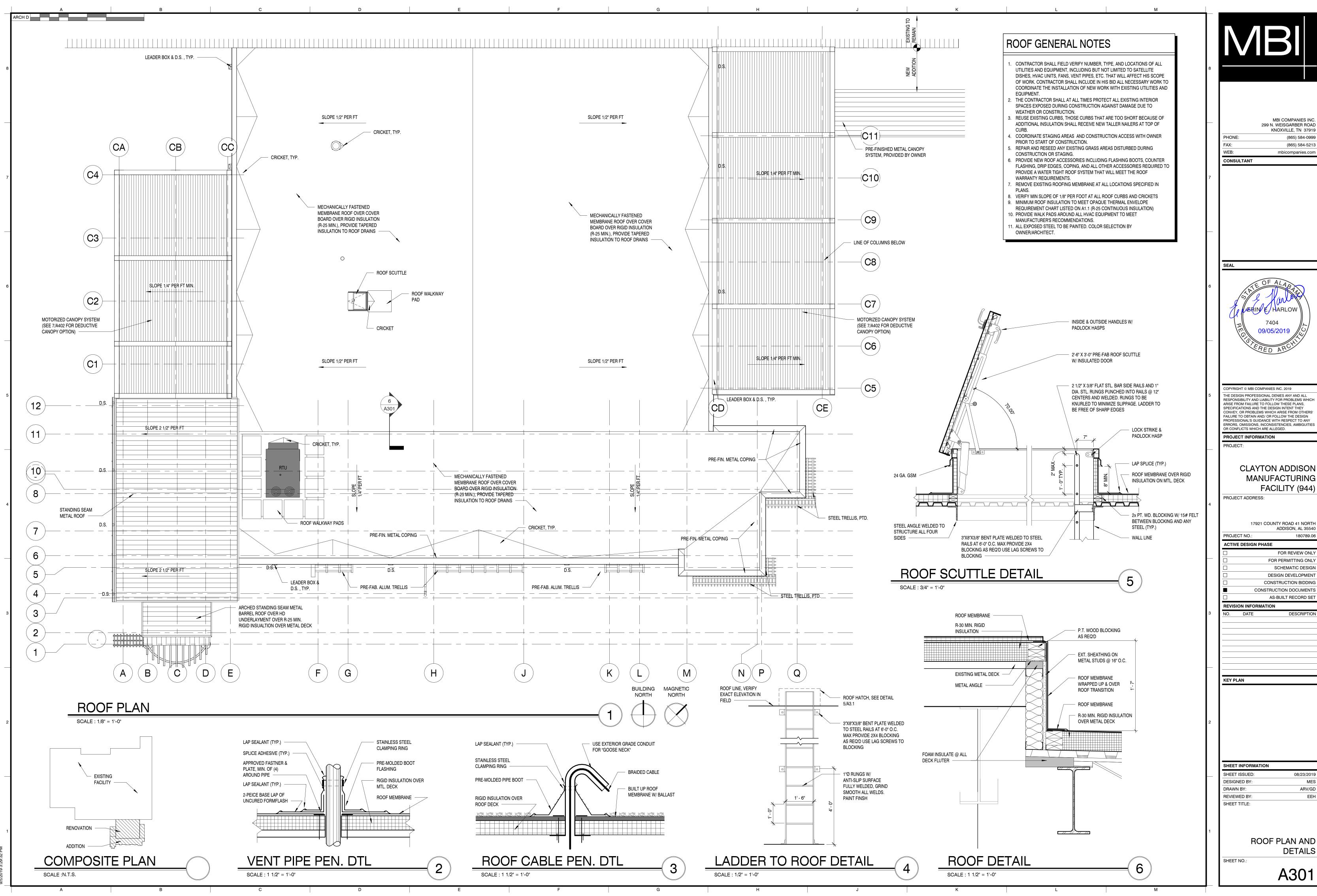
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08/23/2019 DESIGNED BY: ARV/GD REVIEWED BY:

WINDOW ELEVATIONS AND DETAILS

SHEET NO.:

A203



RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH 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

MANUFACTURING

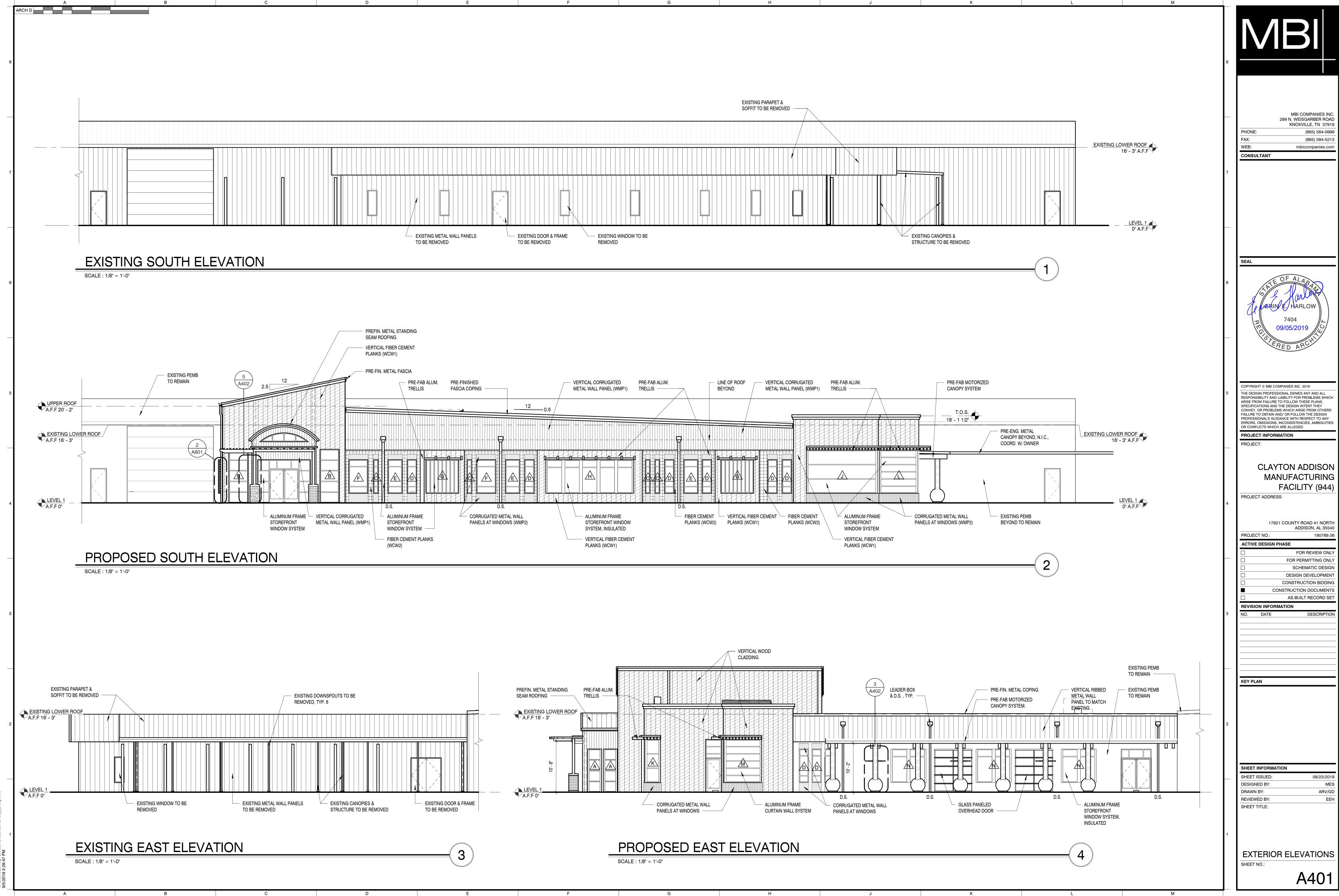
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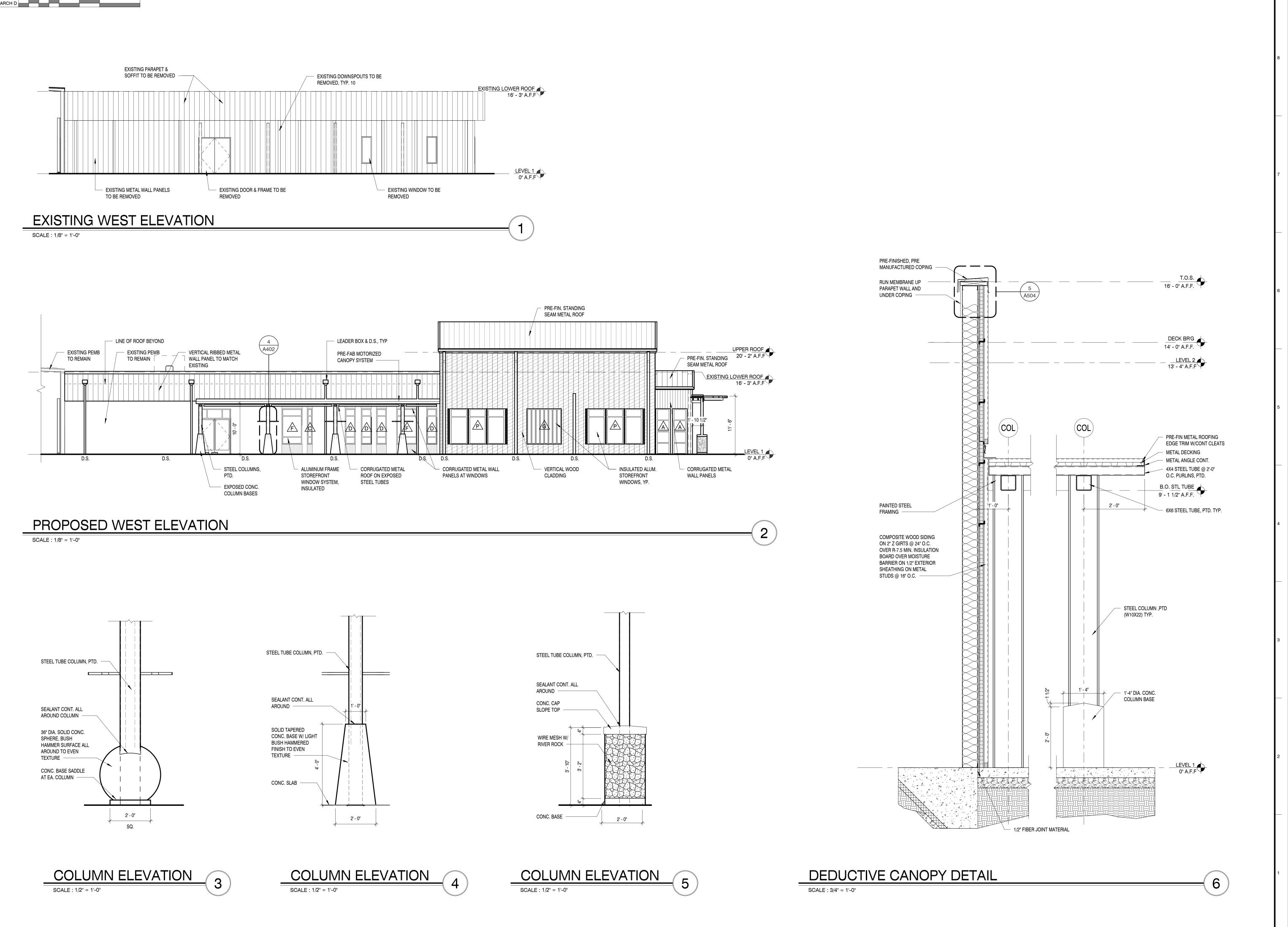
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ARV/GD

DETAILS



ARV/GD





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PROJECT INFORMATION
PROJECT:

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH

ADDISON, AL 35540
PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

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CONSTRUCTION DOCUMENTS

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REVISION INFORMATION

NO. DATE

KEY PLAN

SHEET INFORMATION
SHEET ISSUED:

SHEET ISSUED: 08/23/2019

DESIGNED BY: MES

DRAWN BY: ARV/GD

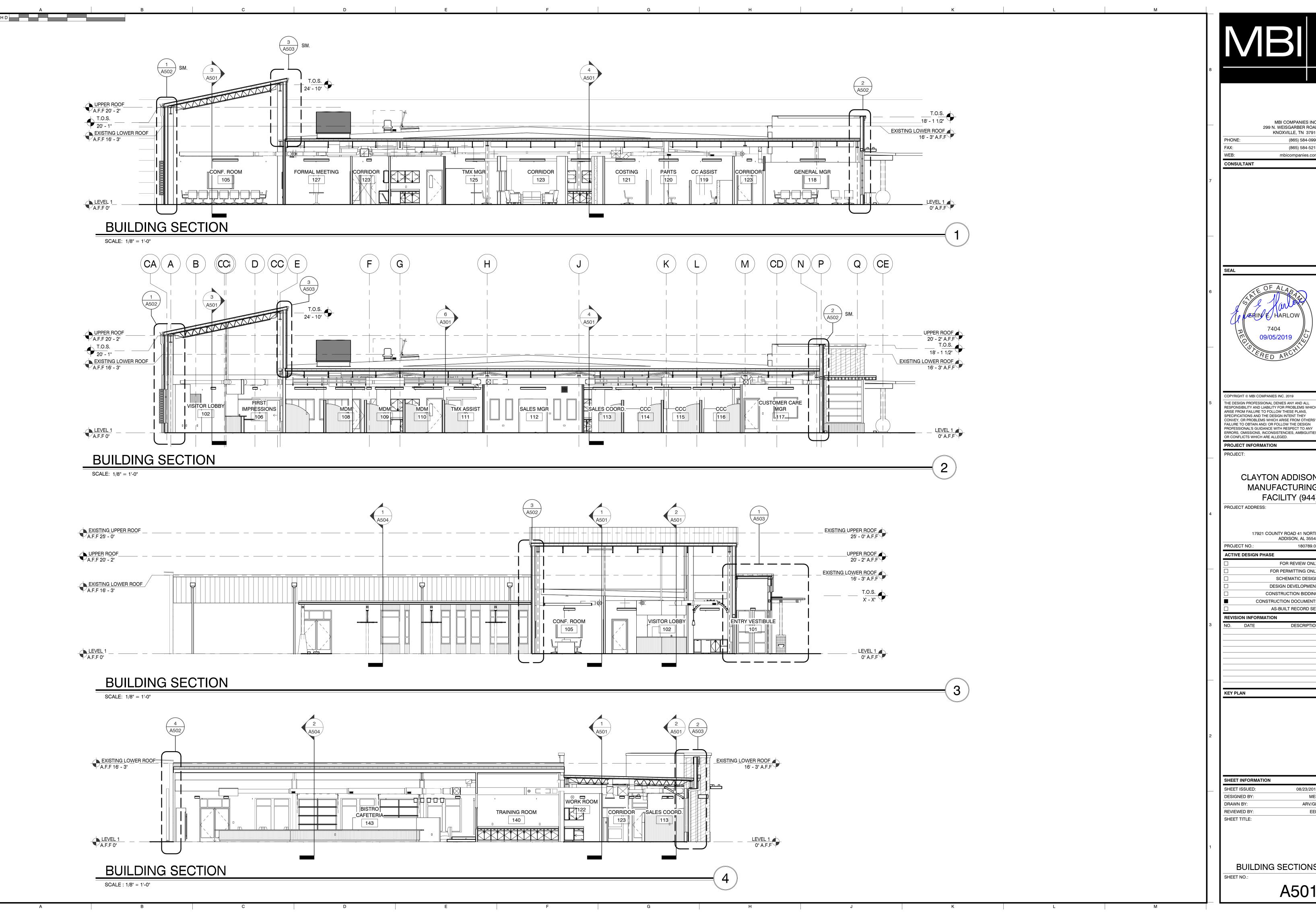
REVIEWED BY: EEH

SHEET TITLE:

EXTERIOR ELEVATIONS
SHEET NO.:

A402

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> CLAYTON ADDISON MANUFACTURING FACILITY (944)

> > 17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554

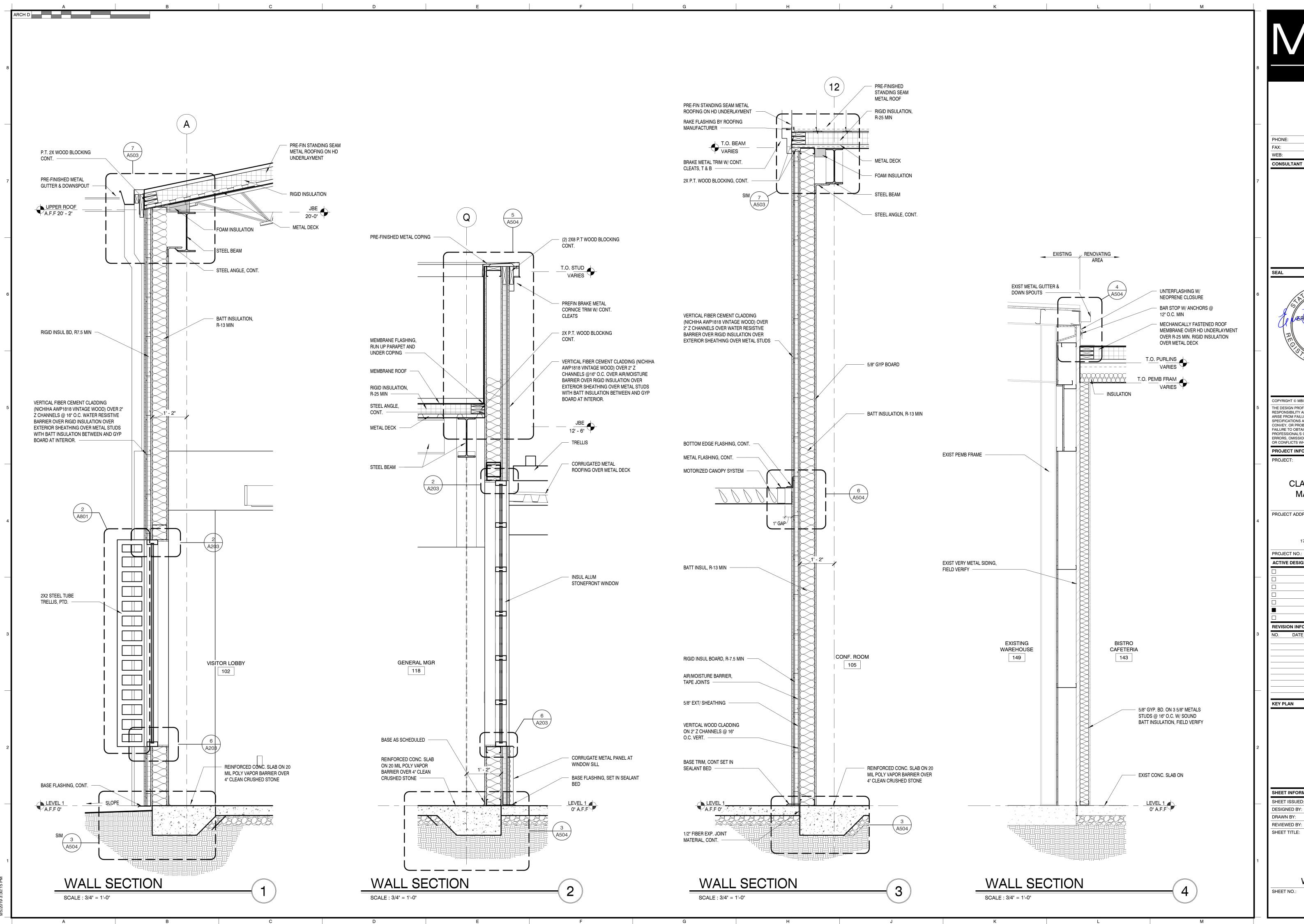
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BUILDING SECTIONS

A501

08/23/201

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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

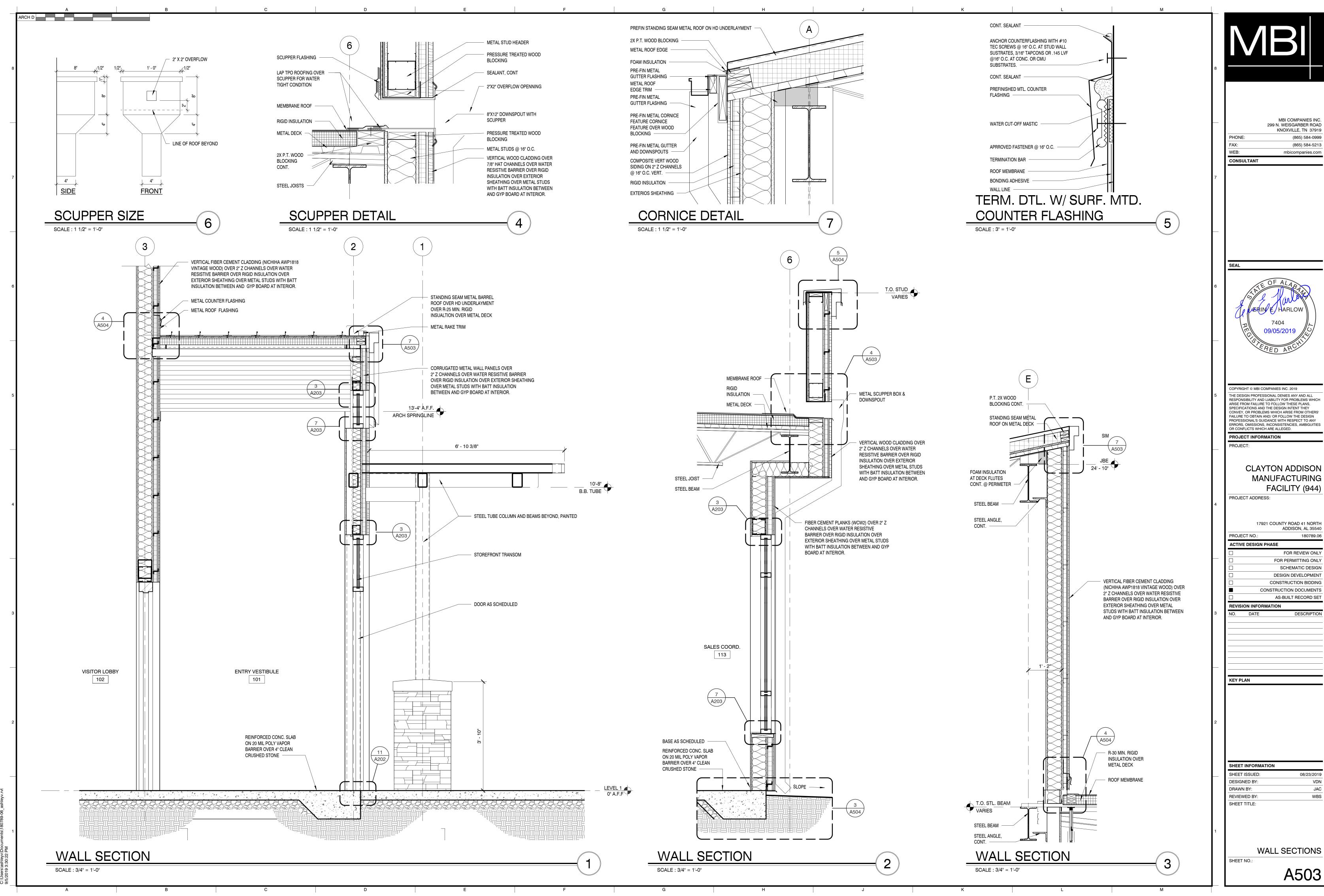
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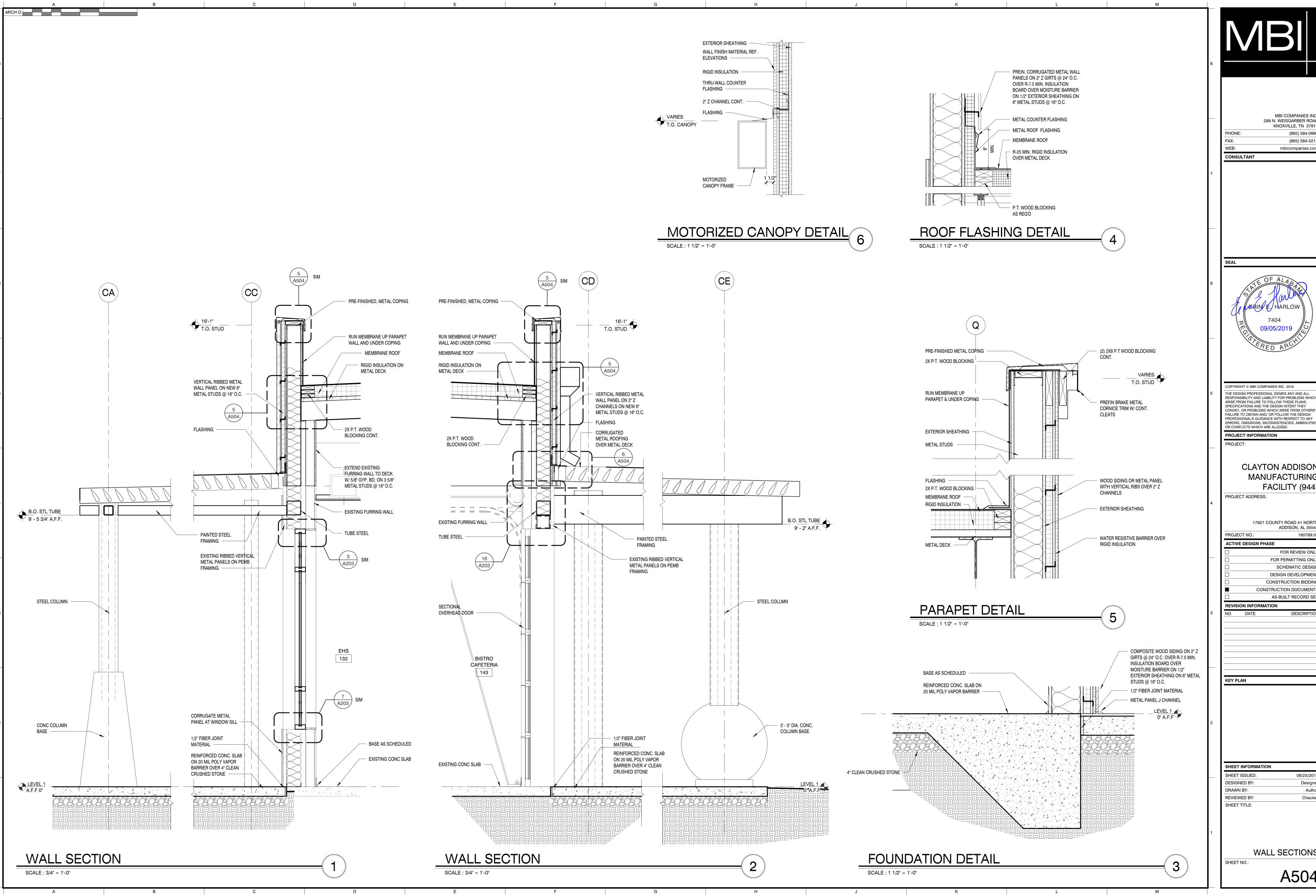
SHEET INFORMATION

08/23/2019

WALL SECTIONS

A502





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CLAYTON ADDISON MANUFACTURING FACILITY (944)

17921 COUNTY ROAD 41 NORTH ADDISON, AL 3554

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN

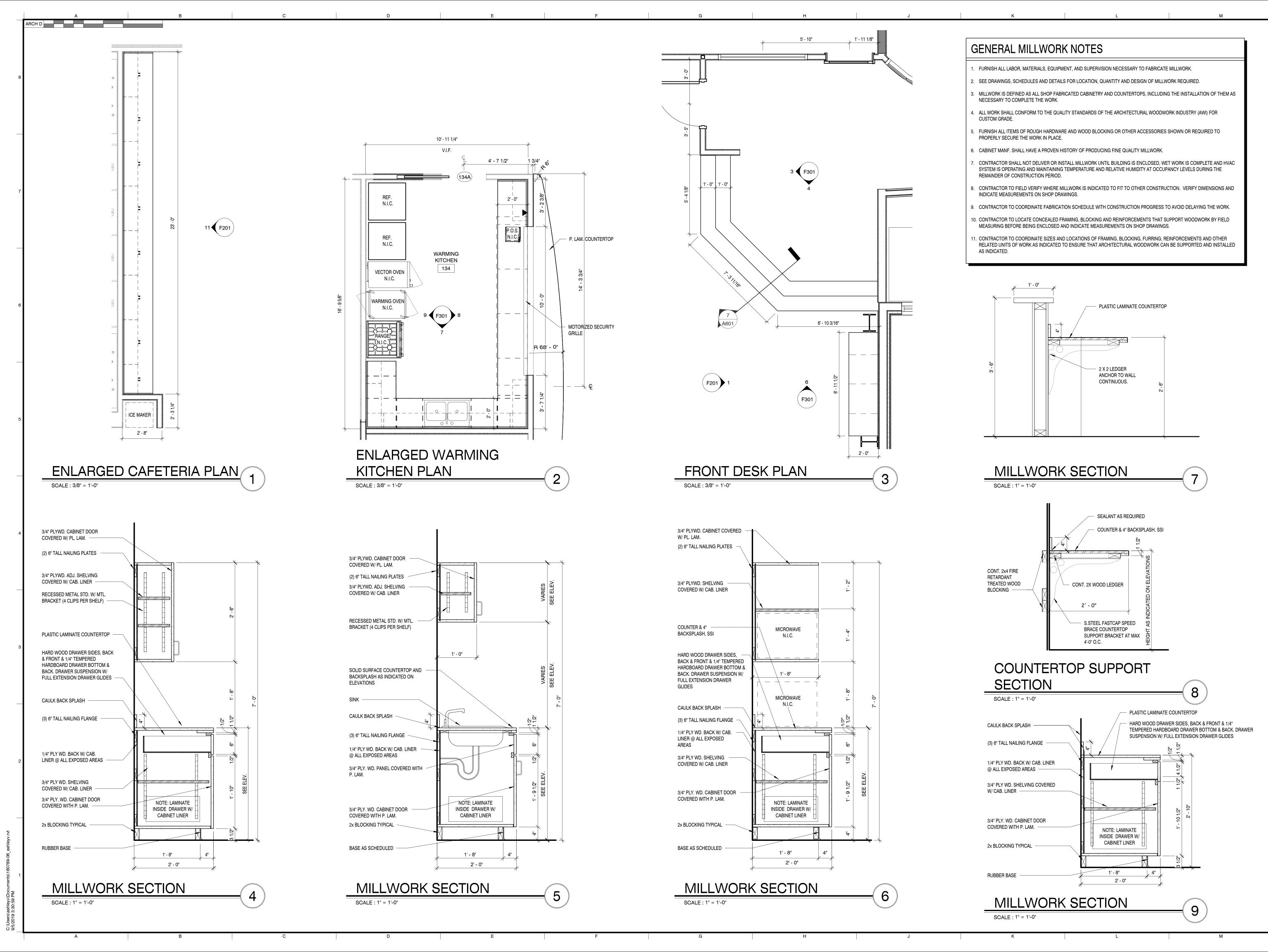
08/23/2019 Designer

WALL SECTIONS

A504

Author

Checker



*

MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919

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FAX: (865) 584-5213

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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI

17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554 PROJECT NO.: 180789.0

ACTIVE DESIGN PHASE

FOR REVIEW ONLY
FOR PERMITTING ONLY
SCHEMATIC DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE

NO. DATE

KEY PLAN

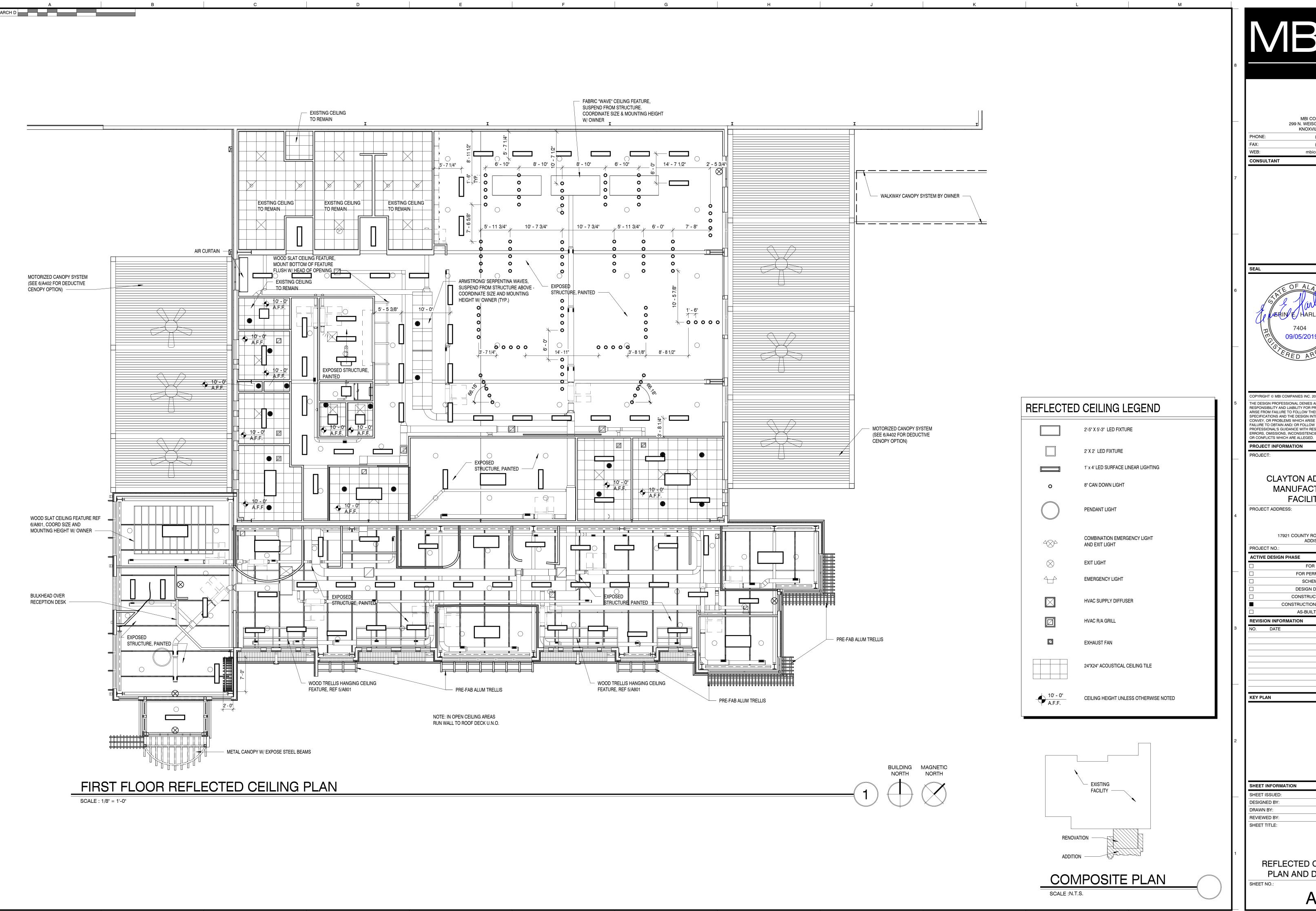
SHEET INFORMATION

SHEET ISSUED: 08/23/2019
DESIGNED BY: MES
DRAWN BY: ARV/GD
REVIEWED BY: EEH
SHEET TITLE:

ENLARGED PLANS AND DETAILS

SHEET NO.:

A601





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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 3554

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

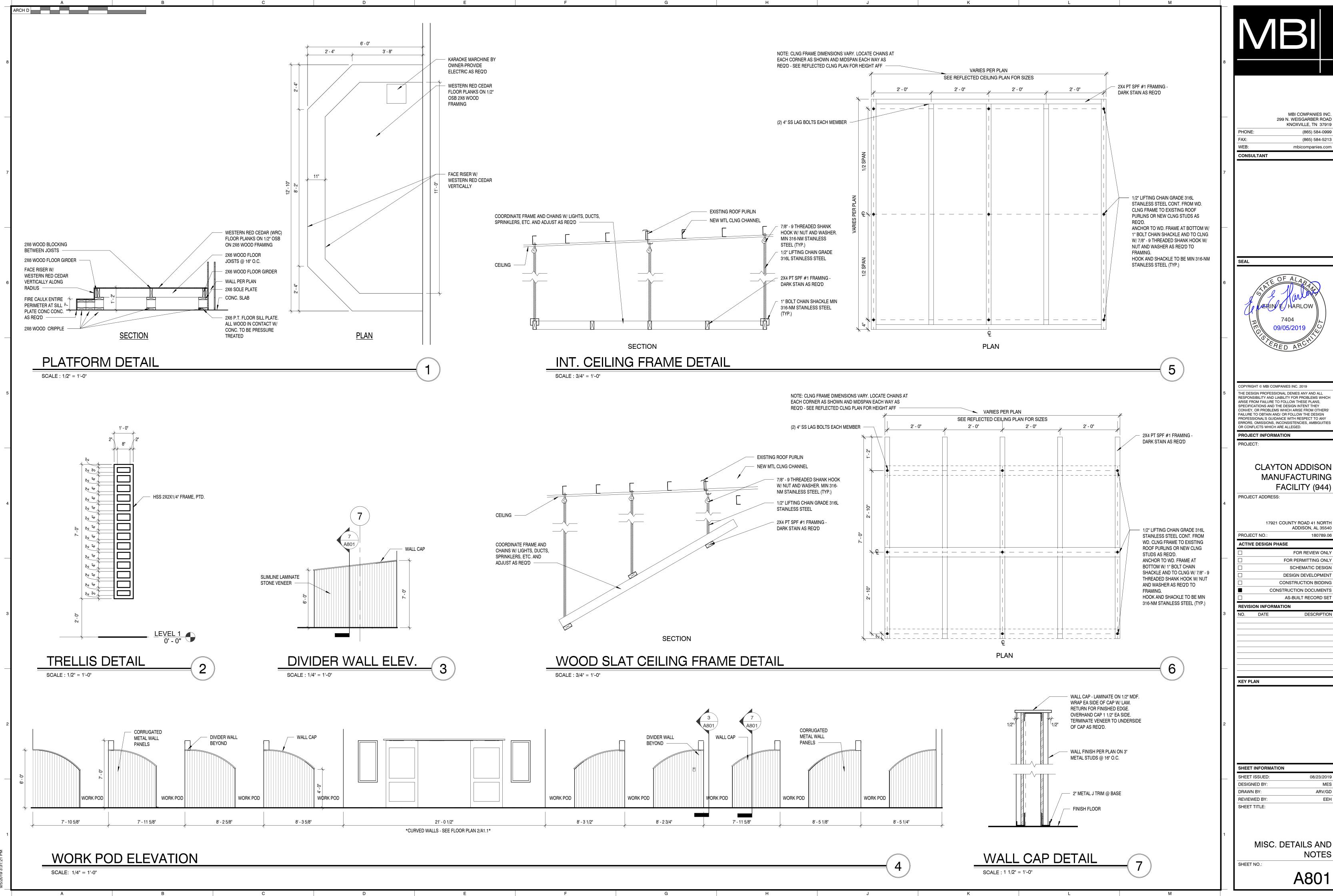
REVISION INFORMATION

SHEET INFORMATION

08/23/2019 ARV/GD

REFLECTED CEILING PLAN AND DETAILS

A701



CLAYTON ADDISON MANUFACTURING

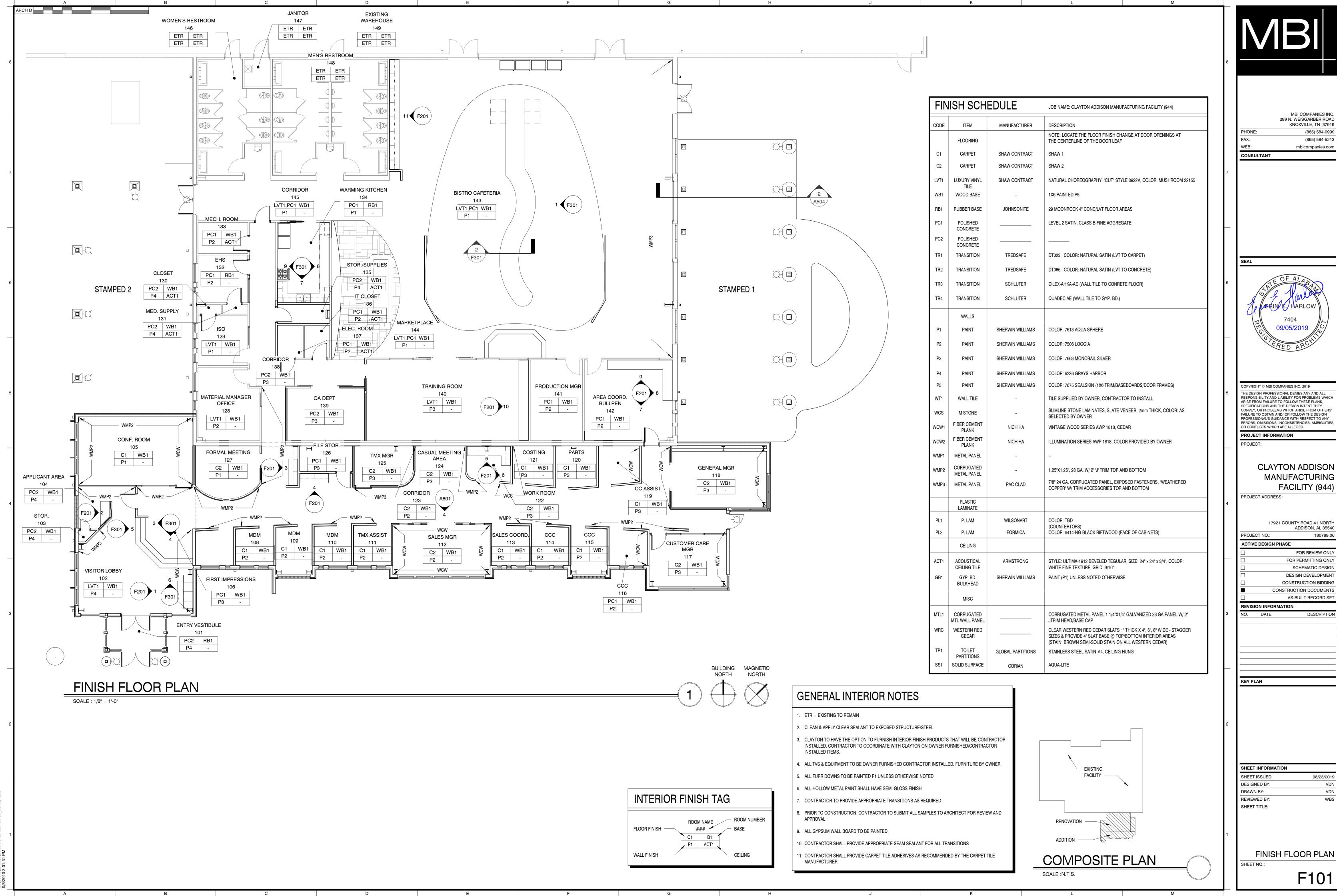
17921 COUNTY ROAD 41 NORTH ADDISON, AL 3554

FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

ARV/GD

NOTES



RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS' PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY

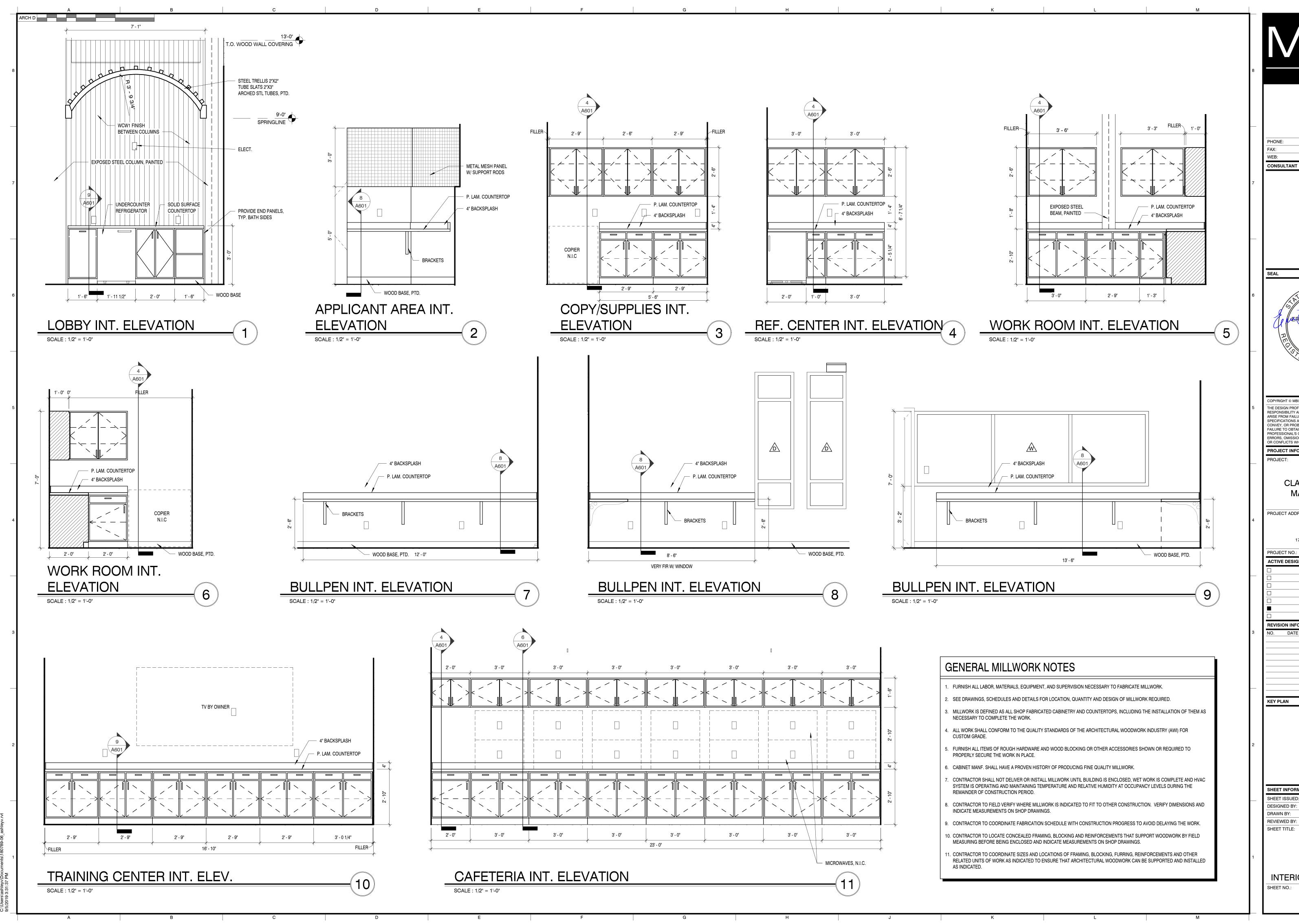
MANUFACTURING FACILITY (944)

> 17921 COUNTY ROAD 41 NORTH ADDISON, AL 3554

180789.06 FOR REVIEW ONLY FOR PERMITTING ONLY

SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

08/23/2019



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI

ADDISON, AL 3554 PROJECT NO.:

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN

CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

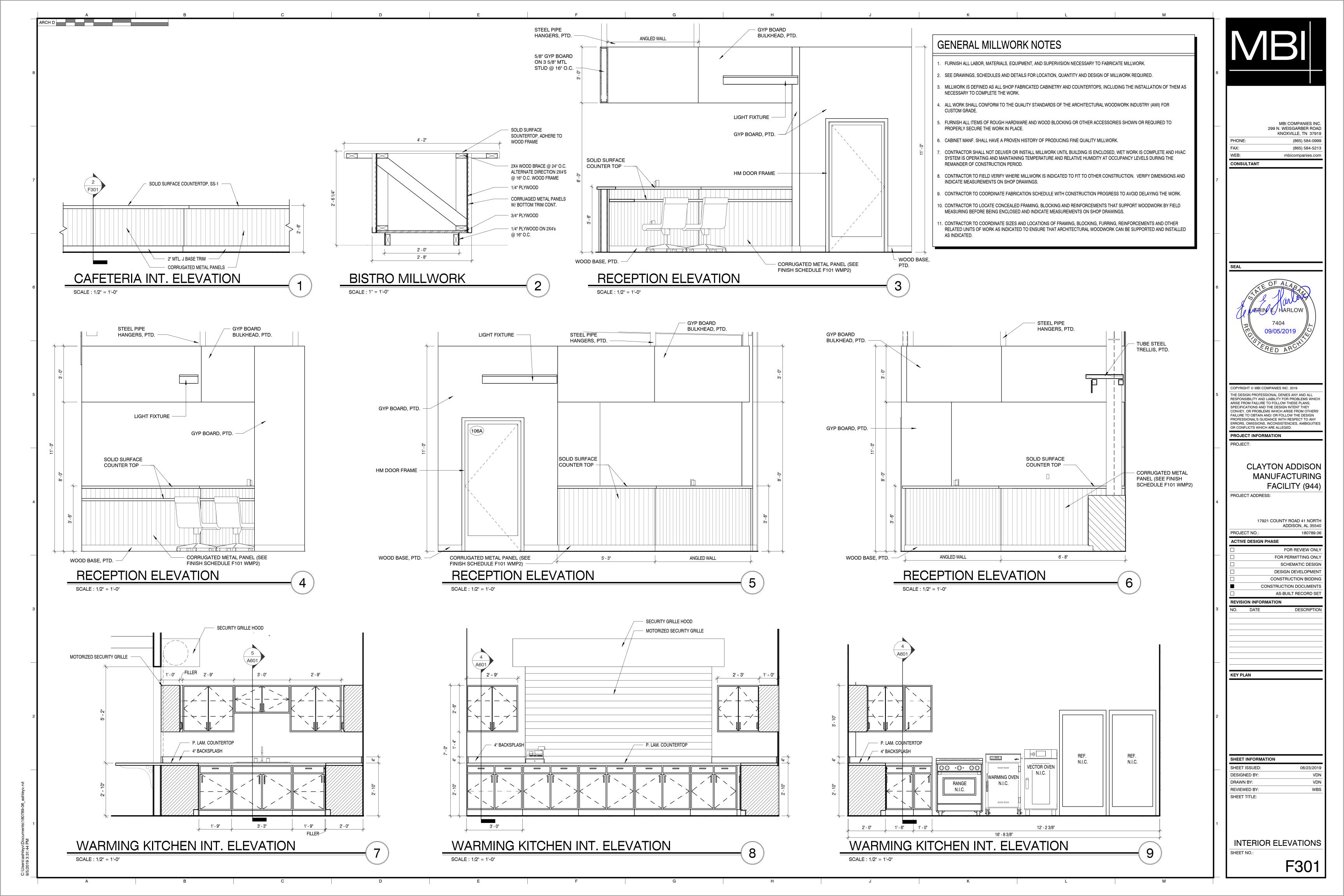
REVISION INFORMATION

SHEET INFORMATION

08/23/2019 **DESIGNED BY:** DRAWN BY: REVIEWED BY:

INTERIOR ELEVATIONS

F201



Welded bar reinforcing shall conform to ASTM A706, Grade 60.

Bar reinforcing lap splices shall be Class "B" but not less than 24", unless noted otherwise.

All joists and joist girders framing into columns shall have erection bolts and be field welded

into final position. Bottom chords are to be extended to columns and stabilized by a vertical

to provide an attachment point for guying or plumbing cables.

stabilizer plate to prevent rotation during erection. Bottom chord should not be rigidly attached to vertical stabilizer plate unless noted otherwise. Vertical stabilizer plate shall be a minimum of 6" x 6" and shall extend a minimum of 3" below the bottom chord of the joist with a 13/16" hole

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PHONE:

CONSULTANT



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORT ADDISON, AL 3554 PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE REVISION INFORMATION

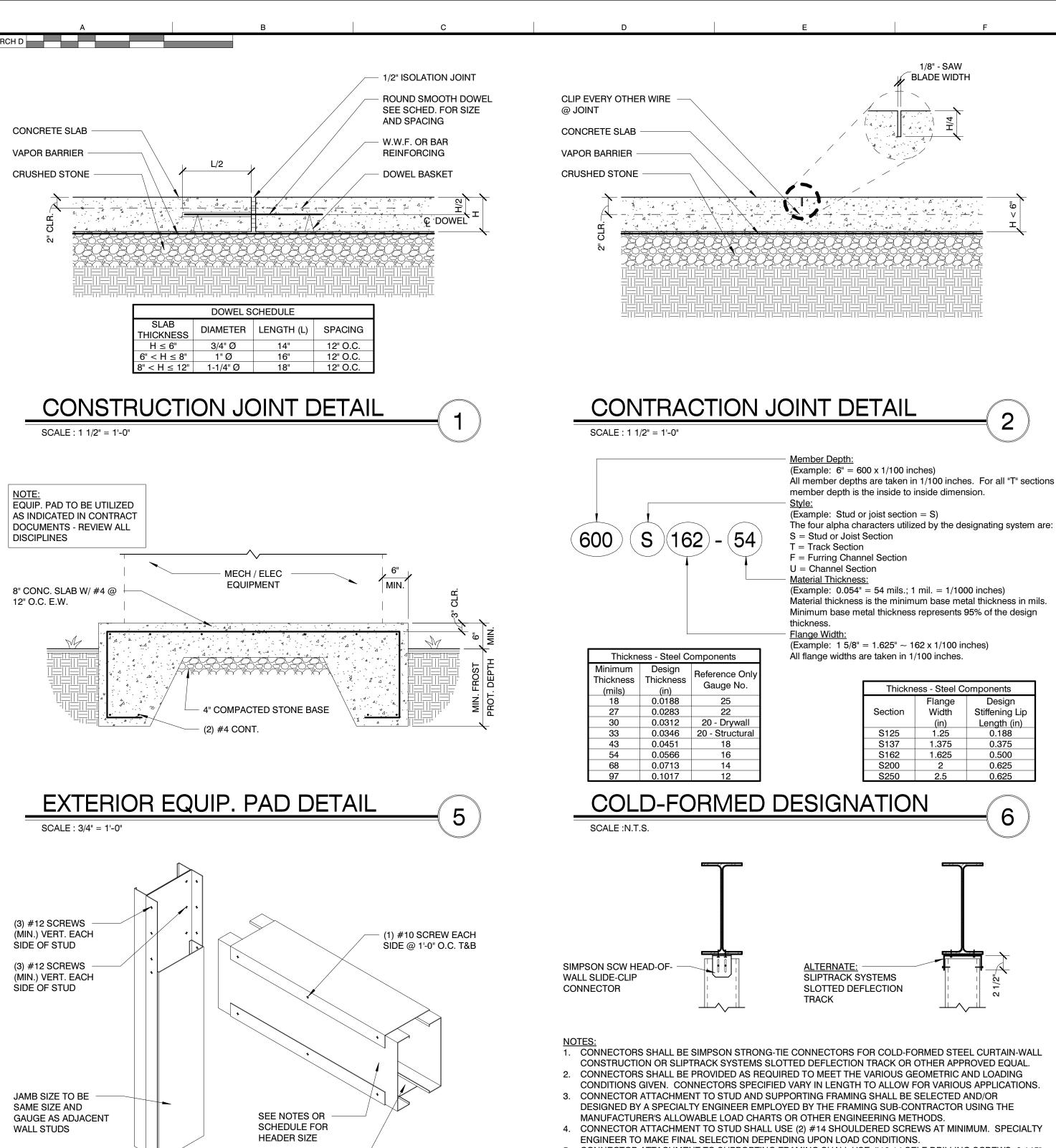
KEY PLAN

REVIEWED BY

SHEET TITLE:

SHEET INFORMATION SHEET ISSUED 08/23/201 DESIGNED BY: DRAWN BY:

STRUCTURAL NOTES



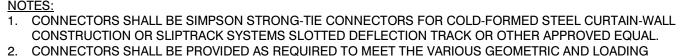
43 MIL (MIN.) TOP AND

SAME WIDTH AS WALL

BOTTOM TRACK

HEADER DETAIL

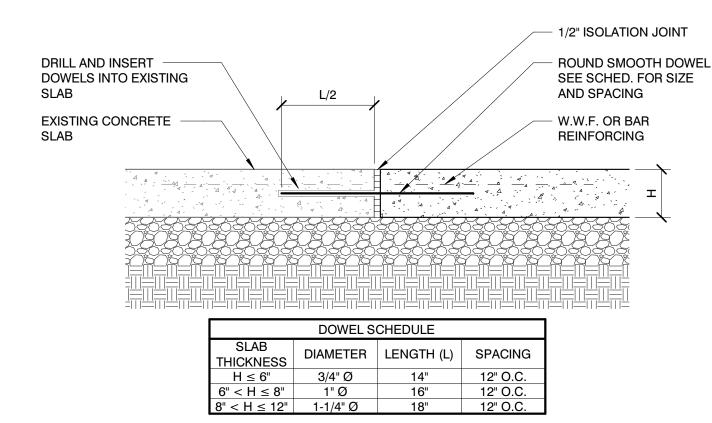
SCALE: 1 1/2" = 1'-0"



- 5. CONNECTOR ATTACHMENT TO SUPPORTING FRAMING SHALL USE #12-14 SELF-DRILLING SCREWS, 0.145"

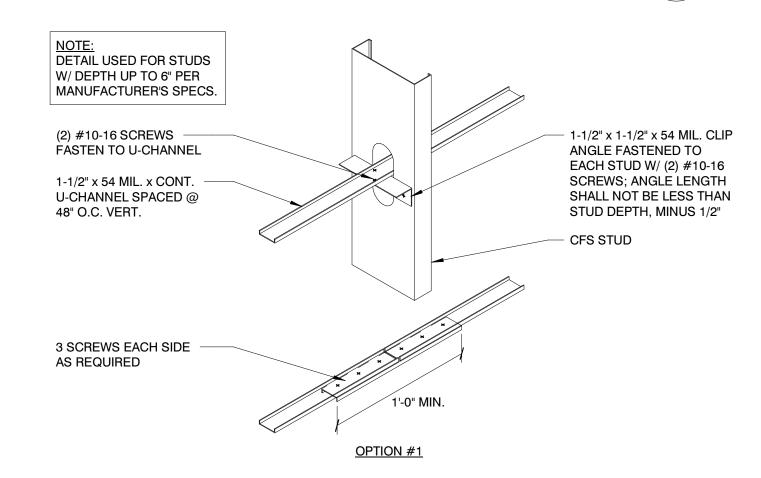
POWDER-ACTUATED FASTENERS (PAF), OR WELDS. SPECIALTY ENGINEER TO MAKE SELECTION DEPENDING UPON LOAD CONDITIONS.



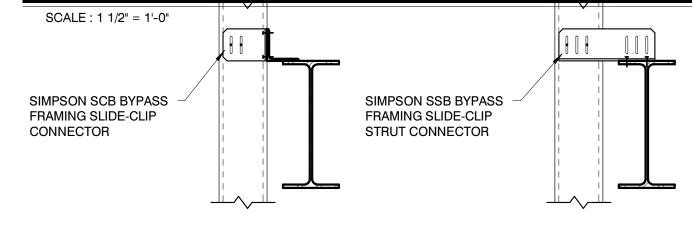




SCALE: 1 1/2" = 1'-0"

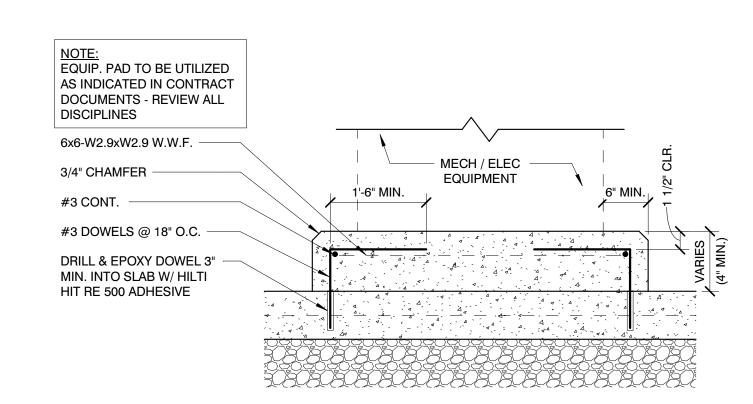






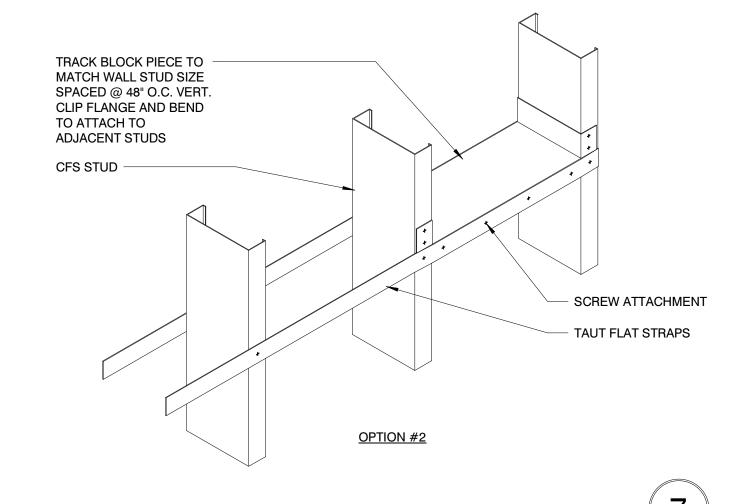
- 1. CONNECTORS SHALL BE SIMPSON STRONG-TIE CONNECTORS FOR COLD-FORMED STEEL CURTAIN-WALL CONSTRUCTION OR APPROVED EQUAL.
- 2. CONNECTORS SHALL BE PROVIDED AS REQUIRED TO MEET THE VARIOUS GEOMETRIC AND LOADING CONDITIONS GIVEN. CONNECTORS SPECIFIED VARY IN LENGTH TO ALLOW FOR VARIOUS APPLICATIONS.
- 3. CONNECTOR ATTACHMENT TO STUD AND SUPPORTING FRAMING SHALL BE SELECTED AND/OR DESIGNED BY A SPECIALTY ENGINEER EMPLOYED BY THE FRAMING SUB-CONTRACTOR USING THE MANUFACTURER'S ALLOWABLE LOAD CHARTS OR OTHER ENGINEERING METHODS.
- 4. CONNECTOR ATTACHMENT TO STUD SHALL USE (2) #14 SHOULDERED SCREWS AT MINIMUM. SPECIALTY ENGINEER TO MAKE FINAL SELECTION DEPENDING UPON LOAD CONDITIONS.
- 5. CONNECTOR ATTACHMENT TO SUPPORTING FRAMING SHALL USE #12-14 SELF-DRILLING SCREWS, 0.145" POWDER-ACTUATED FASTENERS (PAF), OR WELDS. SPECIALTY ENGINEER TO MAKE SELECTION DEPENDING UPON LOAD CONDITIONS.

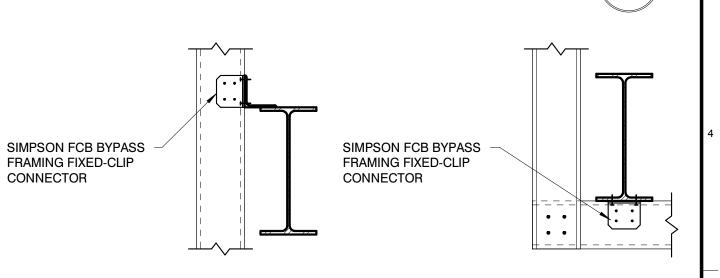






SCALE: 1 1/2" = 1'-0"





SCALE: 1" = 1'-0"

- 1. CONNECTORS SHALL BE SIMPSON STRONG-TIE CONNECTORS FOR COLD-FORMED STEEL CURTAIN-WALL CONSTRUCTION OR APPROVED EQUAL.
- 2. CONNECTORS SHALL BE PROVIDED AS REQUIRED TO MEET THE VARIOUS GEOMETRIC AND LOADING CONDITIONS GIVEN. CONNECTORS SPECIFIED VARY IN LENGTH TO ALLOW FOR VARIOUS APPLICATIONS.
- 3. CONNECTOR ATTACHMENT TO STUD AND SUPPORTING FRAMING SHALL BE SELECTED AND/OR DESIGNED BY A SPECIALTY ENGINEER EMPLOYED BY THE FRAMING SUB-CONTRACTOR USING THE MANUFACTURER'S ALLOWABLE LOAD CHARTS OR OTHER ENGINEERING METHODS.
- 4. CONNECTOR ATTACHMENT TO STUD SHALL USE (4) #12-14 SELF-DRILLING SCREWS AT MINIMUM. SPECIALTY ENGINEER TO MAKE FINAL SELECTION DEPENDING UPON LOAD CONDITIONS.
- 5. CONNECTOR ATTACHMENT TO SUPPORTING FRAMING SHALL USE #12-14 SELF-DRILLING SCREWS, 0.145" POWDER-ACTUATED FASTENERS (PAF), OR WELDS. SPECIALTY ENGINEER TO MAKE SELECTION

FIXED-CLIP CONNECTOR DETAIL

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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554 PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE

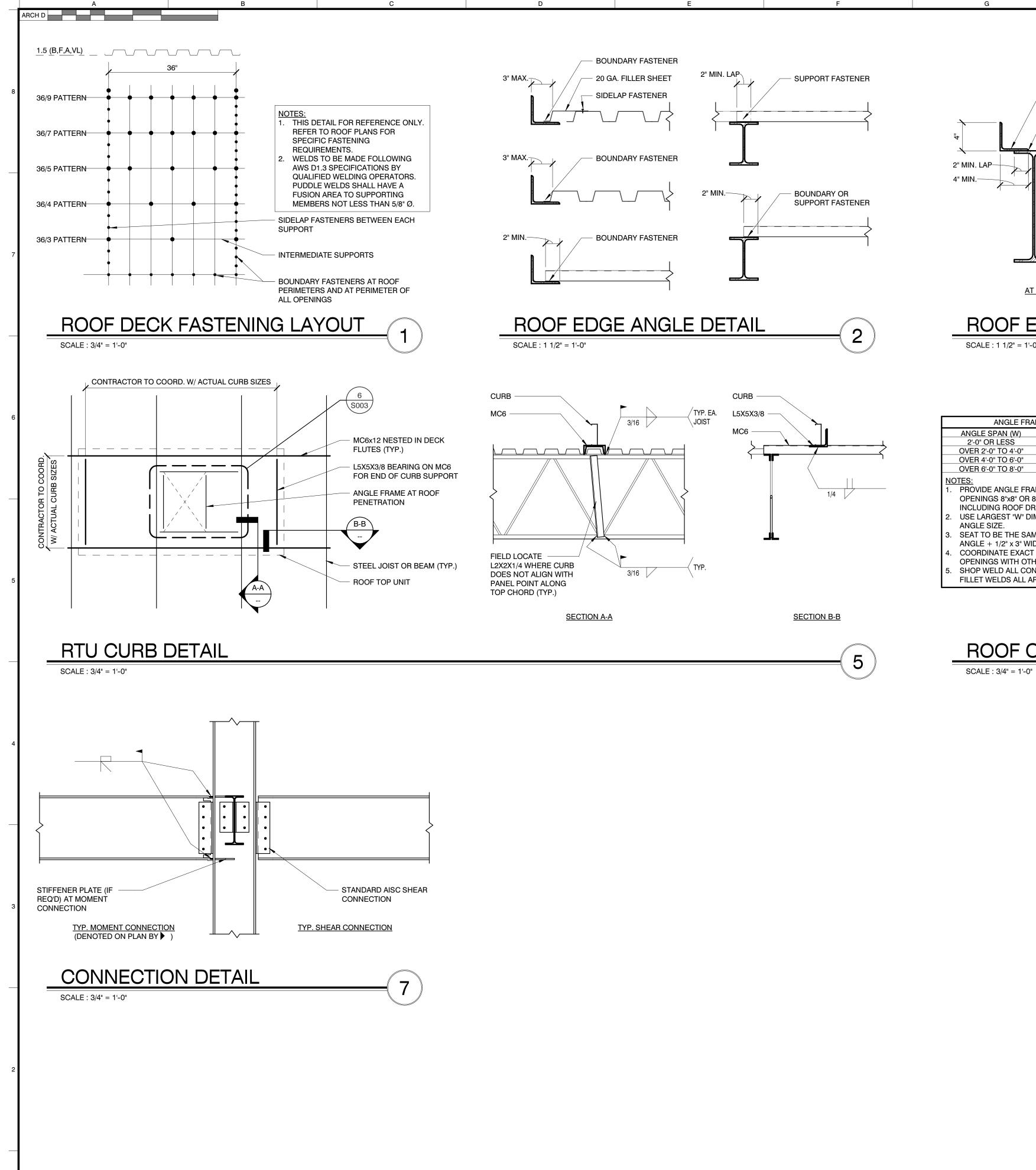
KEY PLAN

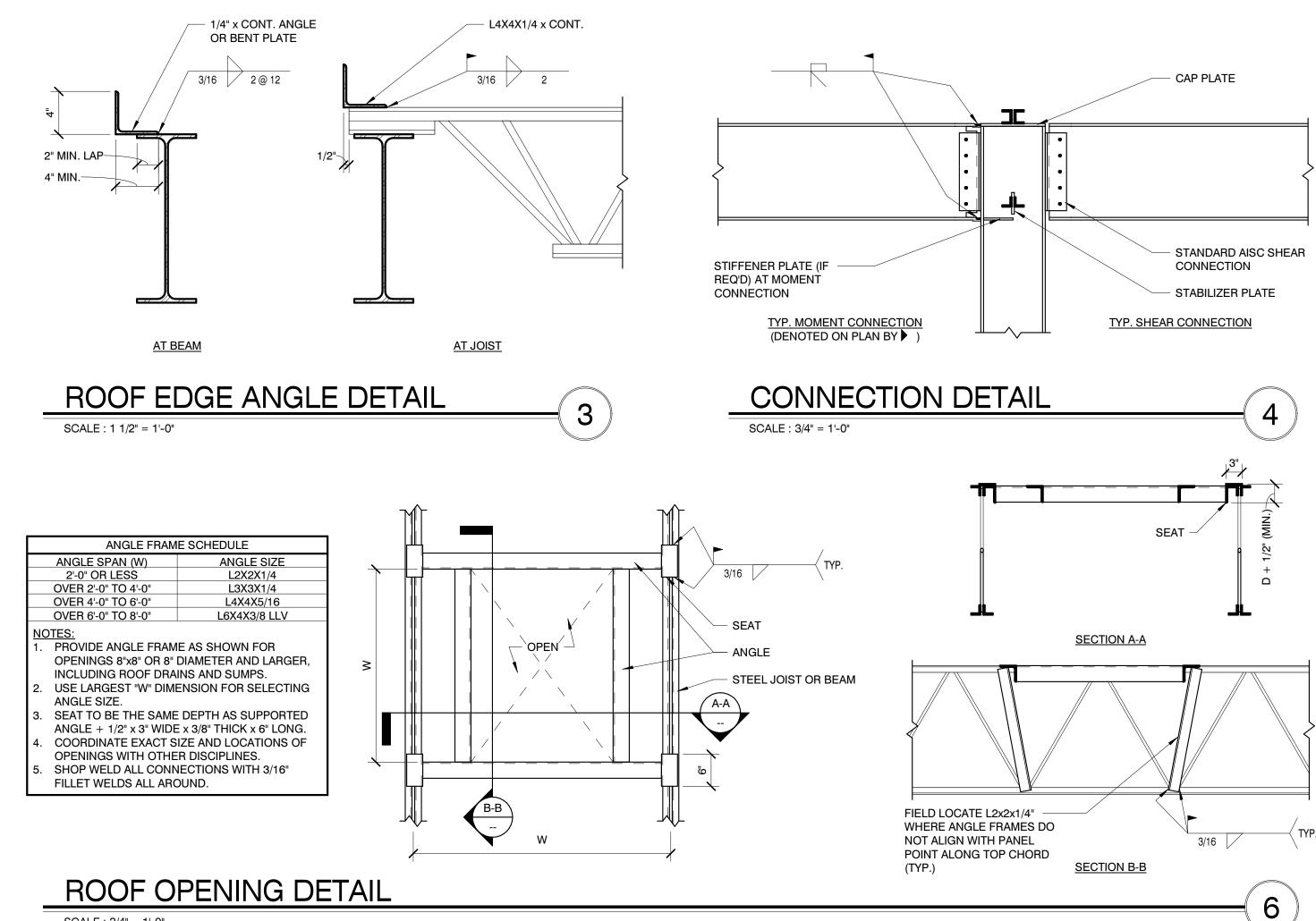
SHEET INFORMATION

SHEET ISSUED 08/23/201 DESIGNED BY: DRAWN BY: REVIEWED BY: SHEET TITLE:

TYPICAL FOUNDATION SLAB ON GRADE AND CFS DETAILS

SHEET NO.:





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MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919

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(865) 584-521 mbicompanies.com

PHONE:

CONSULTANT

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: ZJE

DRAWN BY: JCF

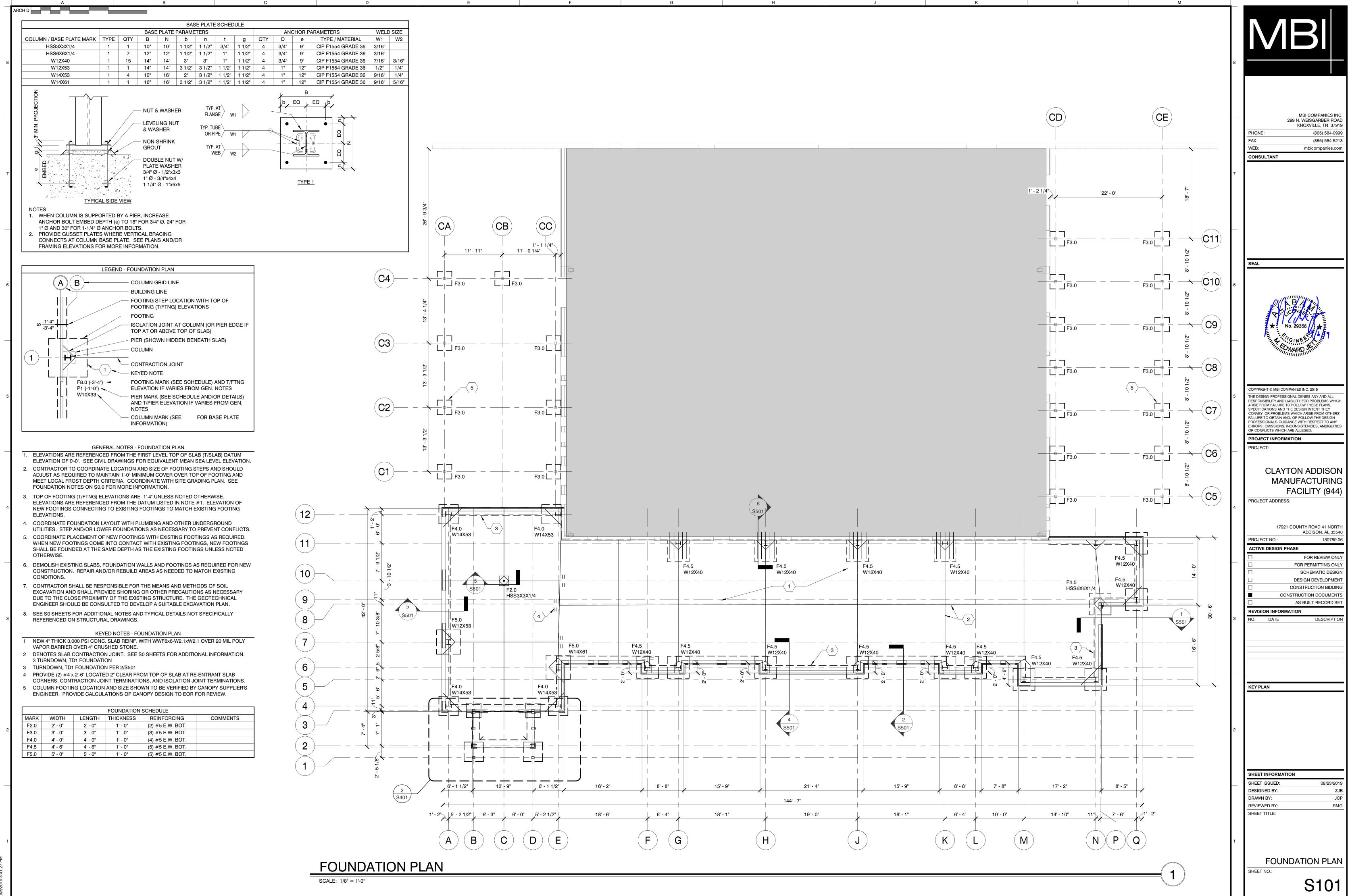
REVIEWED BY: RMG

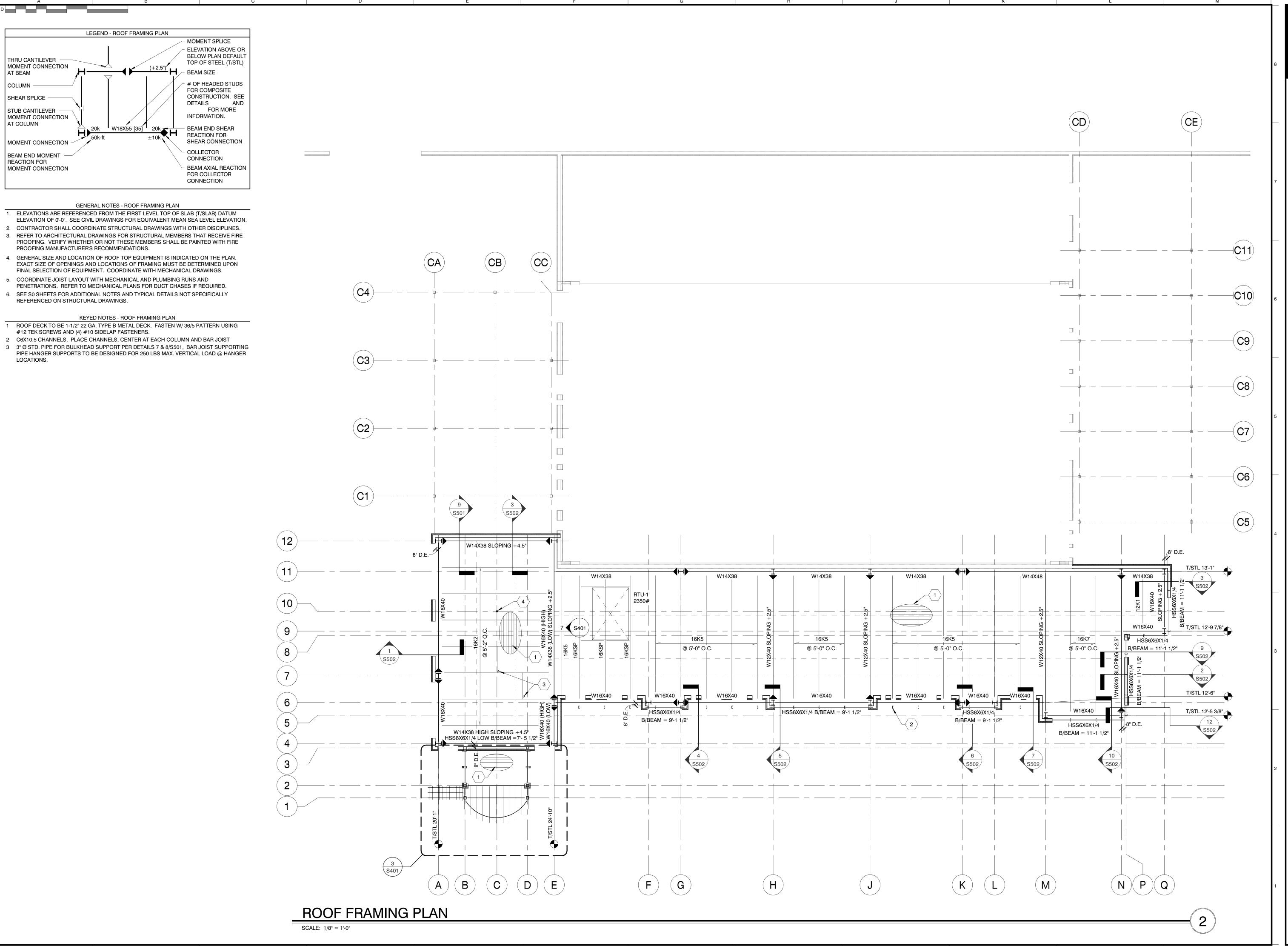
SHEET TITLE:

KEY PLAN

TYPICAL STEEL DETAILS

SHEET NO.:





CONSULTANT



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PROJECT INFORMATION PROJECT:

> CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 3554 PROJECT NO.:

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

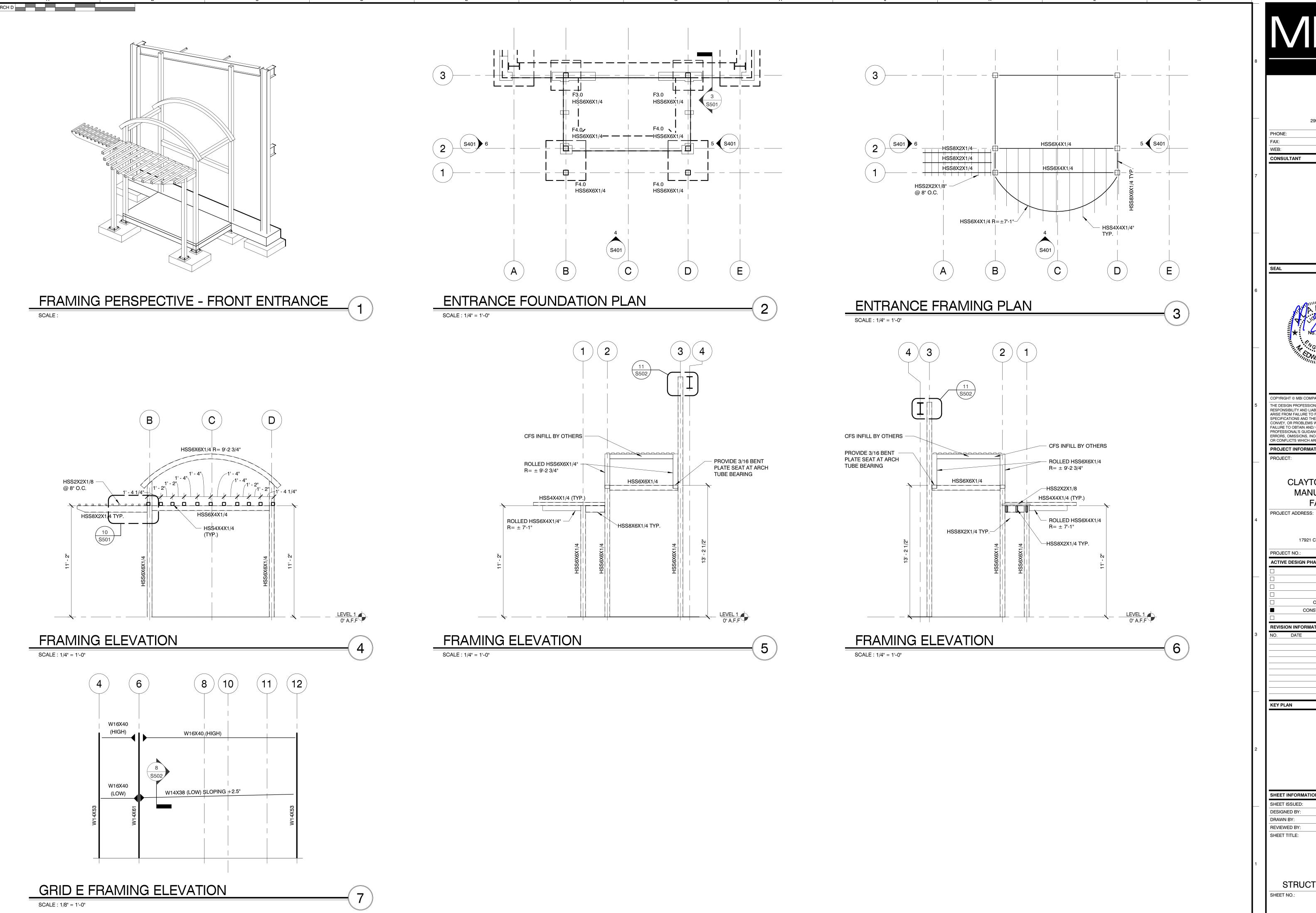
AS-BUILT RECORD SE

KEY PLAN

SHEET INFORMATION

DESIGNED BY: REVIEWED BY:

ROOF FRAMING PLAN



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

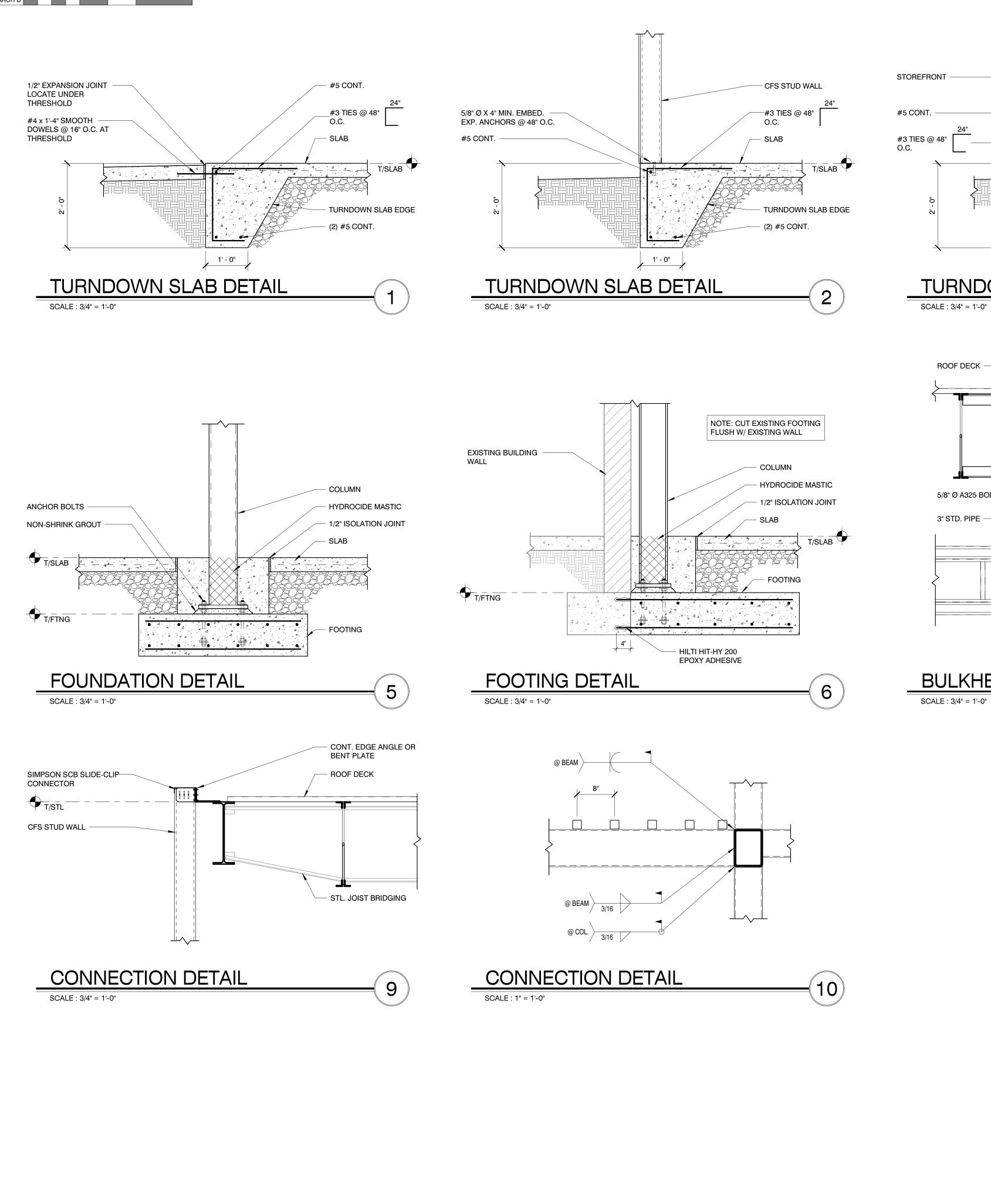
17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

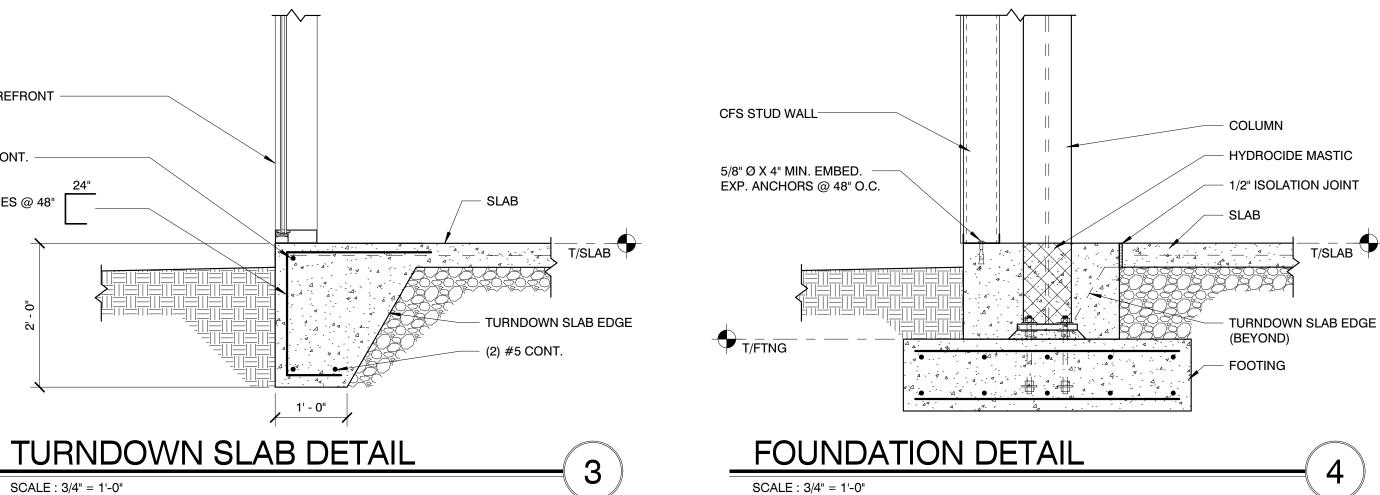
FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMENT CONSTRUCTION BIDDING

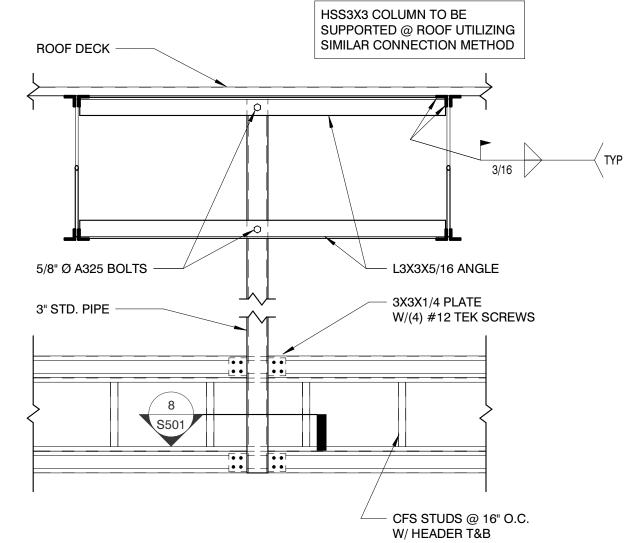
CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

SHEET INFORMATION 08/23/2019 DESIGNED BY:

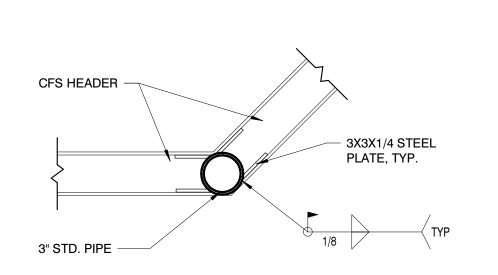
ENLARGED STRUCTURAL PLANS















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PROJECT:

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540
PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

FOR REVIEW ONLY
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SCHEMATIC DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE

KEY PLAN

REVIEWED BY: SHEET TITLE:

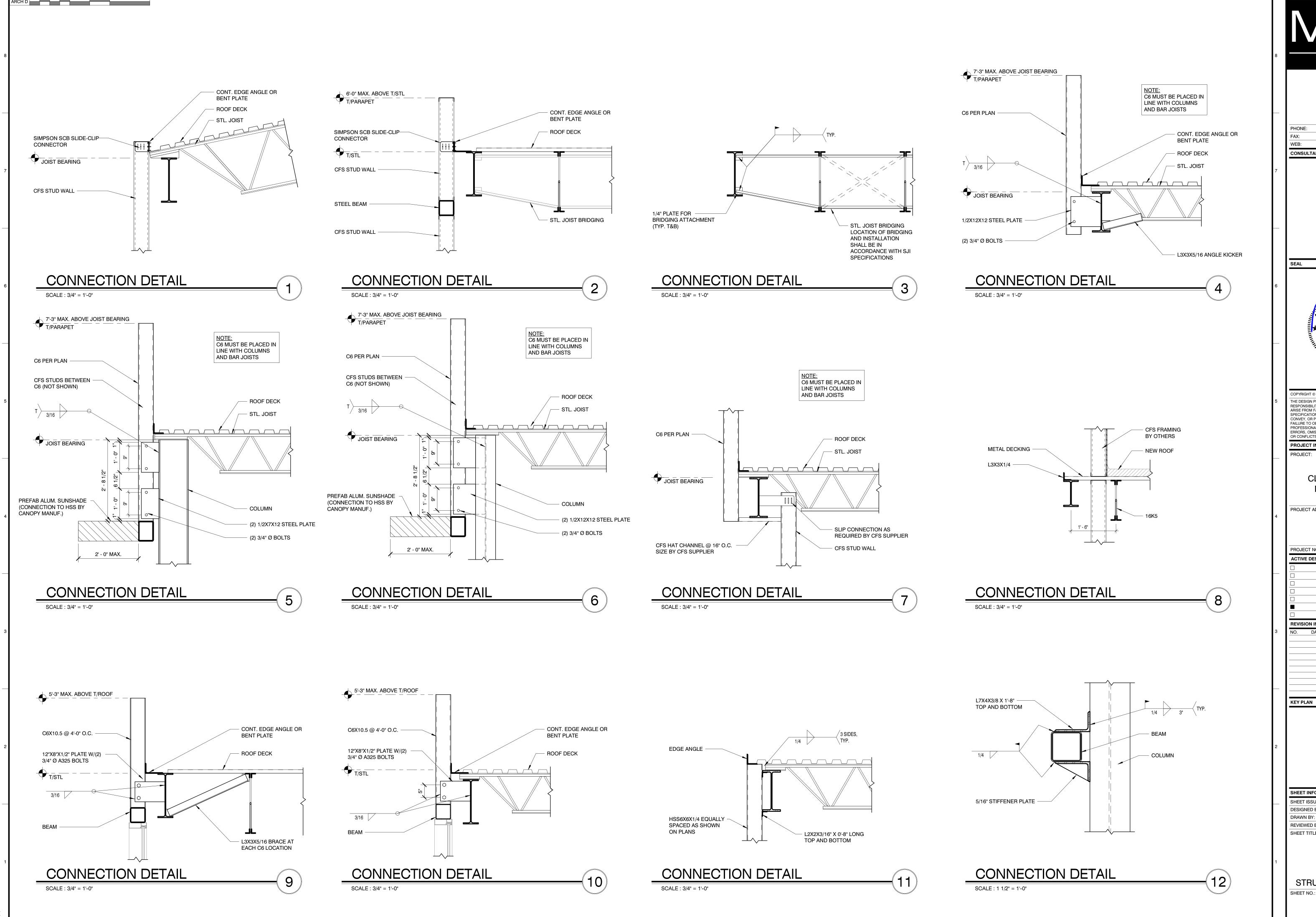
SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: ZJE

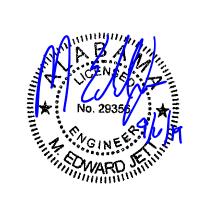
DRAWN BY: JCF

STRUCTURAL DETAILS





MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 (865) 584-0999 (865) 584-521 mbicompanies.co CONSULTANT



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554

PROJECT NO.: 180789.06 **ACTIVE DESIGN PHASE** FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

REVISION INFORMATION

SHEET INFORMATION

SHEET ISSUED: 08/23/201 DESIGNED BY: DRAWN BY: REVIEWED BY: SHEET TITLE:

STRUCTURAL DETAILS

S502

FIRE PROTECTION SPECIFICATIONS

- SECTION 15300 FIRE PROTECTION PART I GENERAL
- 1.01 DESCRIPTION OF WORK:
- A. EXTENT OF FIRE PROTECTION WORK IS INDICATED ON DRAWINGS AND SCHEDULES, AND BY REQUIREMENTS OF THIS
- B. THE SYSTEM SHALL BE WET PIPE SYSTEM
- 1.02 QUALITY ASSURANCE:
- A. CODES AND STANDARDS: 1. 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." 2. UL COMPLIANCE: PROVIDE FIRE PROTECTION PRODUCTS IN ACCORDANCE WITH UL STANDARDS; PROVIDE UL LABEL ON EACH PRODUCT.
- 3. FIRE DEPARTMENT/MARSHAL COMPLIANCE: INSTALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH LOCAL REGULATIONS OF
- FIRE DEPARTMENT OR FIRE MARSHAL. 4. 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. 1.03 SUBMITTALS:
- A. PRODUCT 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. B. SHOP DRAWINGS: SUBMIT SCALED LAYOUT DRAWINGS FOR FIRE PROTECTION PIPE AND FITTINGS INCLUDING, BUT NOT LIMITED TO PIPE AND TUBE SIZES, LOCATIONS, ELEVATIONS, AND SLOPES OF HORIZONTAL RUNS, WALL AND FLOOR PENETRATIONS, AND
- CONNECTIONS. INDICATE INTERFACE AND SPATIAL RELATIONSHIPS BETWEEN PIPING AND APPROXIMATE EQUIPMENT. C. APPROVAL DRAWINGS: PREPARE APPROVAL DRAWINGS OF FIRE PROTECTION SYSTEMS INDICATING PIPE SIZES, PIPE LOCATIONS, FITTINGS, SHUTOFFS, EQUIPMENT, ETC. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT ONE APPROVED COPY,
- BEARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION. D. APPROVAL CALCULATIONS: PREPARE HYDRAULIC CALCULATIONS OF FIRE PROTECTION SYSTEM USING A FIRE HYDRANT FLOW TEST THAT IS NO MORE THAN 6 MONTHS OLD. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT TO ARCHITECT, ONE APPROVED COPY, BEARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION.

E. RECORD DRAWINGS: AT PROJECT CLOSEOUT, SUBMIT RECORD DRAWINGS OF INSTALLED FIRE PROTECTION PIPING AND PRODUCTS.

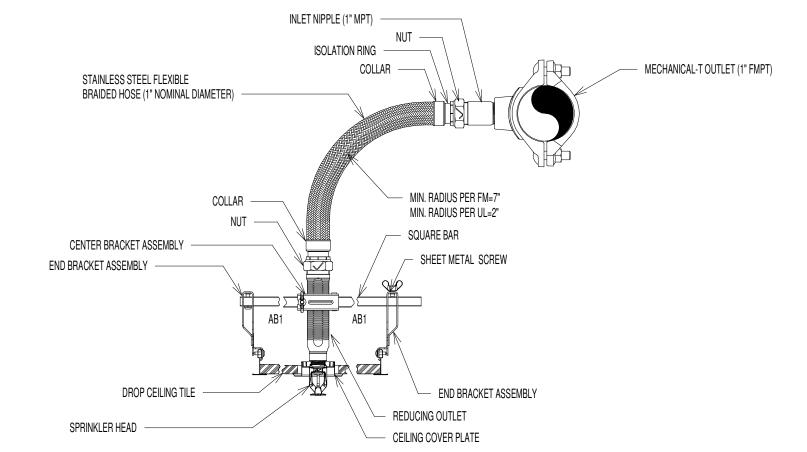
- PART II PRODUCTS
- 2.01 MATERIALS AND PRODUCTS: A. GENERAL: PROVIDE PIPING MATERIALS AND FACTORY-FABRICATED PIPING PRODUCTS OF SIZES, TYPES, PRESSURE RATINGS, TEMPERATURE RATINGS, AND CAPACITIES AS INDICATED. WHERE NOT INDICATED, PROVIDE PROPER SELECTION AS DETERMINED BY INSTALLER TO COMPLY WITH INSTALLATION REQUIREMENTS. PROVIDE SIZES AND TYPES MATCHING PIPING AND EQUIPMENT CONNECTIONS; PROVIDE FITTINGS OF MATERIALS WHICH MATCH PIPE MATERIALS USED IN FIRE PROTECTION SYSTEM.
- 2.02 BASIC IDENTIFICATION: A. GENERAL: PROVIDE IDENTIFICATION AS FOLLOWS;
- 1. FIRE PROTECTION PIPING: PLASTIC PIPE MARKERS 2. FIRE PROTECTION VALVES: PLASTIC VALVE TAGS.
- 2.03 BASIC PIPES AND PIPE FITTINGS:
- A. GENERAL: PROVIDE PIPES AND PIPE FITTINGS AS FOLLOWS: B. BLACK STEEL PIPE: SCHEDULE 40 FOR LESS THAN 8" BLACK STEEL PIPE: SCHEDULE 10 FOR 5" AND SMALLER; MECHANICAL GROOVED
- P IPE COUPLINGS AND FITTINGS; ROLL-GROOVE AND MECHANICAL LOCKING TYPE.
- C. DUCTILE IRON PRESSURE PIPE: AWWA C-106 WITH FITTINGS COMPLYING WITH AWWA C-110 AND RUBBER GASKETS COMPLYING WITH AWWA C-111
- D. BRAIDED FLEXIBLE, SPRINKLER HOSE FITTINGS: BRAIDED, FLEXIBLE HOSE FOR CONNECTION TO SPRINKLER WITH BRACKET FOR
- CONNECTION TO CEILING GRID.
- 1. APPROVED MANUFACTURERS: FLEXHEAD AND VICTAULIC[AH2, AH2CC OR VS1]. E. BRANCH OUTLET FITTINGS:
- 1. BODY MATERIAL: DUCTILE-IRON HOUSING WITH EPDM SEALS AND BOLTS AND NUTS.
- 2. TYPE: MECHANICAL-T AND -CROSS FITTINGS. 3. BRANCH OUTLETS: GROOVED, PLAIN-END PIPE, OR THREADED.
- 4. APPROVED MANUFACTURERS: ANVIL, TYCO, AND VICTAULIC.
- 2.04 BASIC PIPING SPECIALTIES:
- A. GENERAL: PROVIDE PIPING SPECIALTIE:
- 1. PIPE ESCUTCHEONS
- 2. DIELECTRIC UNIONS
- DRIP PANS 4. PIPE SLEEVES
- SLEEVE SEALS 6. FIRE BARRIER PENETRATION SEALS
- 2.05 BASIC SUPPORTS AND ANCHORS:
- A. GENERAL: PROVIDE SUPPORTS AND ANCHORS AS FOLLOWS: . ADJUSTABLE STEEL CLEVIS HANGERS, ADJUSTABLE STEEL BAND HANGERS, OR ADJUSTABLE BAND HANGERS, FOR HORIZONTAL
- PIPING HANGERS AND SUPPORTS.
- 2. TWO-BOLT RISER CLAMPS FOR VERTICAL PIPING SUPPORTS.
- 3. STEEL TURNBUCKLES AND MALLEABLE IRON SOCKETS FOR HANGER-ROD ATTACHMENTS. 4. CONCRETE INSERTS, TOP-BEAM C-CLAMPS, SIDE BEAM OR CHANNEL CLAMPS OR CENTER BEAM CLAMPS FOR BUILDING
- 1. GENERAL: PROVIDE ANCHORAGES FOR TEES, PLUGS, CAPS, BENDS, AND HYDRANTS IN ACCORDANCE WITH NFPA 24.
- 2. CLAMPS, STRAPS AND WASHERS: STEEL, ANSI/ASTM A-506 3. RODS: STEEL, ANSI/ASTM A-575
- 4. OD COUPLINGS: MALLEABLE IRON, ANSI/ASTM A-197 5. BOLTS: STEEL, ANSI/ASTM A-307
- 6. CAST-IRON WASHERS: ANSI/ASTM A-126, CLASS A
- 7. THRUST BLOCKS: 2500 PSI CONCRETE
- 2.06 BASIC VALVES: A. GENERAL: PROVIDE VALVES AS FOLLOWS:
- B. INTERIOR VALVES: 1. SECTIONAL: GATE VALVES OR BUTTERFLY VALVES: UL LISTED.
- 2. CHECK: SWING CHECK VALVES; UL LISTED. 2.07 SPECIAL VALVES:
- A. GENERAL: PROVIDE VALVES, UL LISTED, IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE SIZES AND TYPES WHICH MATE AND MATCH PIPING AND EQUIPMENT CONNECTIONS.
- A. 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.
- B. PROVIDE DRY-BARREL FIRE HYDRANTS (BASE VALVE TYPE) COMPLYING WITH AWWA C-502 AND AS FOLLOWS:
- 1. 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.D.-4.875", P.D.-4.777", ROOT DIAMETER 4,653", 6 THREADS PER INCH, GAUGE 2C.

- 2.09 AUTOMATIC SPRINKLERS:
- A. GENERAL: PROVIDE AUTOMATIC SPRINKLERS OF TYPE INDICATED ON DRAWINGS, AND IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE FUSIBLE LINKS FOR 165°F (74°C) AND SPRINKLERS WITH NOMINAL 1/2" DISCHARGE ORIFICE UNLESS OTHERWISE
- 1. UPRIGHT
- 2. PENDENT
- 3. FLUSH PENDENT
- 4. CONCEALED PENDENT
- 5. HORIZONTAL SIDEWALL
- 6. FINISH: CHROME PLATE FOR OCCUPIED AREAS, CAST BRASS FOR UNOCCUPIED AREAS, WAX COATED WHERE EXPOSED TO ACIDS, CHEMICALS, OR OTHER CORROSIVE FUMES.
- APPPROVED SPRINKLER HEAD MANUFACTURERS: RELIABLE, VICTAULIC, VIKING, TYCO
- C. SPRINKLER CABINET AND WRENCH: FURNISH STEEL, BAKED RED ENAMELED, SPRINKLER BOX WITH CAPACITY TO STORE 12 SPRINKLERS AND WRENCH SIZED TO SPRINKLERS.
- D. IN AREAS SUBJECT TO PHYSICAL ABUSE SUCH AS GYMNASIUMS AND MECHANICAL ROOMS, PROVIDE STEEL WIRE GUARDS OVER SPRINKLERS.
- PART III EXECUTION 3.01 INSPECTION:
- A. GENERAL: EXAMINE AREAS AND CONDITIONS UNDER WHICH FIRE PROTECTION MATERIALS AND PRODUCTS ARE TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO
- INSTALLER. 3.02 INSTALLATION OF BASIC IDENTIFICATION:
- A. GENERAL: INSTALL MECHANICAL IDENTIFICATION SUCH THAT ALL FIRE PROTECTION PIPING AND EQUIPMENT CAN BE IDENTIFIED. B. INSTALL FIRE PROTECTION SIGNS ON PIPING IN ACCORDANCE WITH NFPA 13 AND NFPA 14 REQUIREMENTS.
- 3.03 INSTALLATION OF PIPES AND PIPE FITTINGS: A. GENERAL: INSTALL PIPES AND PIPE FITTINGS IN ACCORDANCE WITH DRAWING AND REQUIREMENT OF AUTHORITY HAVING
- JURISDICTION. NOTE THAT ALL WORK INCLUDING UNDERGROUND LINES MUST BE INSTALLED BY A LICENSED SPRINKLER CONTRACTOR. B. COMPLY WITH REQUIREMENTS OF NFPA 13 AND NFPA 14 FOR INSTALLATION OF FIRE PROTECTION PIPING MATERIALS. INSTALL PIPING PRODUCTS WHERE INDICATED. IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE
- WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PIPING SYSTEMS COMPLY WITH REQUIREMENTS AND SERVE INTENDED PURPOSES.
- C. COORDINATE WITH OTHER WORK, INCLUDING PLUMBING PIPING, AS NECESSARY, TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORK.
- D. INSTALL DRAIN PIPING AT LOW POINTS OF PIPING SYSTEMS. PROVIDE DRY DRUM DRIPS WHERE INDICATED. . INSTALL SECTIONAL VALVES IN INLET PIPING, AT BOTTOM OF EACH RISER, AND IN LOOPS.
- F. INSTALL FIRE DEPARTMENT CONNECTION VALVES IN PIPING WHERE FIRE DEPARTMENT CONNECTIONS ARE INDICATED.
- G. INSTALL WATER FLOW INDICATORS WHERE INDICATED. 1. APPROVED MANUFACTURERS: POTTER, VIKING, AND WATTS.
- H. MOUNT SUPERVISORY SWITCHES ON EACH SECTIONAL VALVE.
- I. INSTALL PRESSURE GAGES ON RISER OR MAIN FEED, AT EACH SPRINKLER TEST CONNECTION, AND AT TOP OF EACH STANDPIPE.
- INSTALL MANUAL SHUTOFF AT EACH AUDIBLE ALARM STATION.
- K. INSTALL INSPECTOR'S TEST CONNECTIONS WHERE INDICATED, OR AT MOST REMOTE POINT FROM RISER. L. INSTALL ELECTRICALLY OPERATED ALARM BELL NEAR FIRE DEPARTMENT CONNECTION.
- 1. FINISH: RED-ENAMEL FACTORY FINISH, SUITABLE FOR OUTDOOR USE.
- 2. APPROVED MANUFACTURERS: FIRE-LITE ALARMS, NOTIFIER, AND POTTER
- 3.04 INSTALLATION OF VALVES: A. INSTALL VALVES IN PER MANUFACTURES WRITTEN RECOMMENDATIONS.
- B. DETECTOR CHECK VALVES: INSTALL IN HORIZONTAL POSITION AS INDICATED, ORIENTED FOR PROPER FLOW DIRECTION. INSTALL BY-PASS METER WITH GLOBE VALVE AND CHECK VALVE, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DIRECTIONS.
- C. INSTALL BACKFLOW PREVENTION VALVE TO SEPARATE SPRINKLER SYSTEM FROM POTABLE WATER SYSTEM. 3.05 INSTALLATION OF FIRE PROTECTION SPECIALTIES:
- A. GENERAL: INSTALL FIRE PROTECTION SPECIALTIES AS INDICATED, AND IN ACCORDANCE WITH NFPA 13 AND 14. FURNISH WIRING REQUIREMENTS TO ELECTRICAL INSTALLER FOR ELECTRICAL WIRING OF SUPERVISORY SWITCHES.
- 3.06 FIELD QUALITY CONTROL:
- A. SPRINKLER PIPING FLUSHING: PRIOR TO CONNECTING SPRINKLER RISERS FOR FLUSHING, FLUSH WATER FEED MAINS, LEAD-IN CONNECTIONS AND CONTROL PORTIONS OF SPRINKLER PIPING. AFTER FIRE SPRINKLER PIPING INSTALLATION HAS BEEN COMPLETED AND BEFORE PIPING IS PLACED IN SERVICE, FLUSH ENTIRE SPRINKLER SYSTEM, AS REQUIRED TO REMOVE FOREIGN SUBSTANCES, UNDER PRESSURE AS SPECIFIED IN NFPA 13. CONTINUE FLUSHING UNTIL WATER IS CLEAR, AND CHECK TO ENSURE
- THAT DEBRIS HAS NOT CLOGGED SPRINKLERS. B. PERFORM HYDROSTATIC TESTING OF COMPLETED OUTSIDE LINES IN ACCORDANCE WITH NFPA 24 UNLESS MORE STRINGENT TEST
- REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. C. HYDROSTATIC TESTING: AFTER FLUSHING SYSTEM, TEST FIRE SPRINKLER PIPING HYDROSTATICALLY, FOR PERIOD OF 2 HOURS, AT NOT LESS THAN 200 PSI OR AT 50 PSI IN EXCESS OF MAXIMUM STATIC PRESSURE WHEN MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI. CHECK SYSTEM FOR LEAKAGE OF JOINTS. MEASURE HYDROSTATIC PRESSURE AT LOW POINT OF EACH SYSTEM OR
- D. REPAIR OR REPLACE PIPING SYSTEM AS REQUIRED TO ELIMINATE LEAKAGE IN ACCORDANCE WITH NFPA STANDARDS FOR "LITTLE OR NO LEAKAGE" AND RETEST AS SPECIFIED TO DEMONSTRATE COMPLIANCE.
- 3.07 ADJUSTING AND CLEANING: A. CLEANING AND INSPECTING: CLEAN AND INSPECT FIRE PROTECTION SYSTEMS TO BE WIP-DOWN CLEAN AND FREE FROM LEAKS AND DEFECTS. INSPECT PIPE HANGERS TO INSURE SECURE STRUCTURAL CONNECTION AND THE HANGER IS TIGHT AND CARRYING THE WEIGHT OF THE PIPE.
- 3.08 EXTRA STOCK: A. HEADS: FOR EACH STYLE AND TEMPERATURE RANGE REQUIRED, FURNISH ADDITIONAL SPRINKLER HEADS, AMOUNTING TO ONE UNIT FOR EVERY 100 INSTALLED UNITS, BUT NOT LESS THAN 5 UNITS OF EACH.
- B. WRENCHES: FURNISH 2 SPANNER WRENCHES FOR EACH TYPE AND SIZE OF VALVE CONNECTION AND FIRE HOSE COUPLING.

FIRE PROTECTION GENERAL NOTES:

- . THE SPRINKLER HEADS SHOWN ARE GENERAL IN NUMBER AND LOCATION. THE EXACT NUMBERS AND LOCATIONS SHALL BE DETERMINED BY THE SUCCESSFUL SPRINKLER INSTALLER AND SHALL BE SHOWN ON HIS SHOP DRAWINGS. THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND NFPA
- 2. PROVIDE A HYDRAULICALLY DESIGNED FULL COVERAGE SPRINKLER SYSTEM.
- B. PROVIDE DRY PENDANT TYPE HEADS IN COOLER, FREEZER AND/OR OTHER AREAS THAT ARE SUBJECT TO FREEZING FOR FREEZE PROTECTION.
- 4. THE SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF SPRINKLER HEADS AND ASSOCIATED PIPING WITH ALL OTHER TRADES.
- 5. ALL SPRINKLER HEADS LOCATED IN 2'x2' TILES SHALL BE CENTERED.
- 6. SPRINKLER SYSTEM SHALL BE LIGHT HAZARD IN ALL AREAS, EXCEPT ORDINARY HAZARD GROUP I IN ELECTRICAL ROOM, AND ORDINARY HAZARD GROUP II IN COOKING KITCHEN, MECHANICAL ROOM, AND STORAGE ROOMS.
- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FULL REPLACEMENT COST OF SURFACES DAMAGED BY DRAINAGE FROM THE SPRINKLER SYSTEM.
- 8. THE CONTRACTOR MUST PROVIDE A CERTIFIED CALCULATION DEMONSTRATING THE CHARACTERISTICS OF THE PROPOSED SYSTEM AND SHOWING PIPE SIZE AND SYSTEM FLOW.
- 9. PROVIDE A "PUMPER" HYDRANT WITHIN 100' OF THE FIRE DEPARTMENT CONNECTION AS REQUIRED BY THE AHJ.
- 10. THE NEW SPRINKLER SYSTEM IS AN NFPA 13-4.1 WET PIPE SYSTEM.
- 11. ALL FIRE PROTECTION PIPING STARTING FROM POINT OF SERVICE ON MUST BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR. SEE THE SITE UTILITY DRAWING FOR UNDERGROUND PIPING AND VALVES REQUIRED.
- 12. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
- 13. THE VELOCITY OF WATER FOR SPRINKLER PIPING SHALL NOT EXCEED 21 FPS (FEET PER SECOND).
- 14. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES.
- 15. SEE ELECTRICAL LIGHTING PLANS FOR LOCATIONS OF LIGHTS.
- 16. SEE MECHANICAL PLANS FOR LOCATION OF DIFFUSERS

SP	RINKLEF	R LEGI	END					
SYM	DESCRIPTION	SPRAY	TYPE	TEMP.	ORIFICE	К	MODEL #	FINISH
\triangleright	SIDEWALL	15 [']	STANDARD	165°	1/2"	5.6	V2709	BRASS
•	PENDENT	15' X 15'	QUICK RESPONSE	165°	1/2"	5.6	V2708	SEMI-RECESSED WHITE
\circ	UPRIGHT	15' X 15'	STANDARD	212°	1/2"	5.6	V2703	BRASS
>	DRY SIDEWALL	15'	STANDARD	200°	1"	5.6	V3609	BRASS



BRAIDED FLEX CONNECTION FOR SPRINKLER HEAD

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

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CONSULTANT MECHANICAL ENGINEER:

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OR CONFLICTS WHICH ARE ALLEGED PROJECT INFORMATION PROJECT:

> **CLAYTON ADDISON** MANUFACTURING

FACILITY (944) PROJECT ADDRESS:

> 17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554

PROJECT NO .: 180789.0 **ACTIVE DESIGN PHASE** FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMENT

CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE REVISION INFORMATION

KEY PLAN

SHEET TITLE:

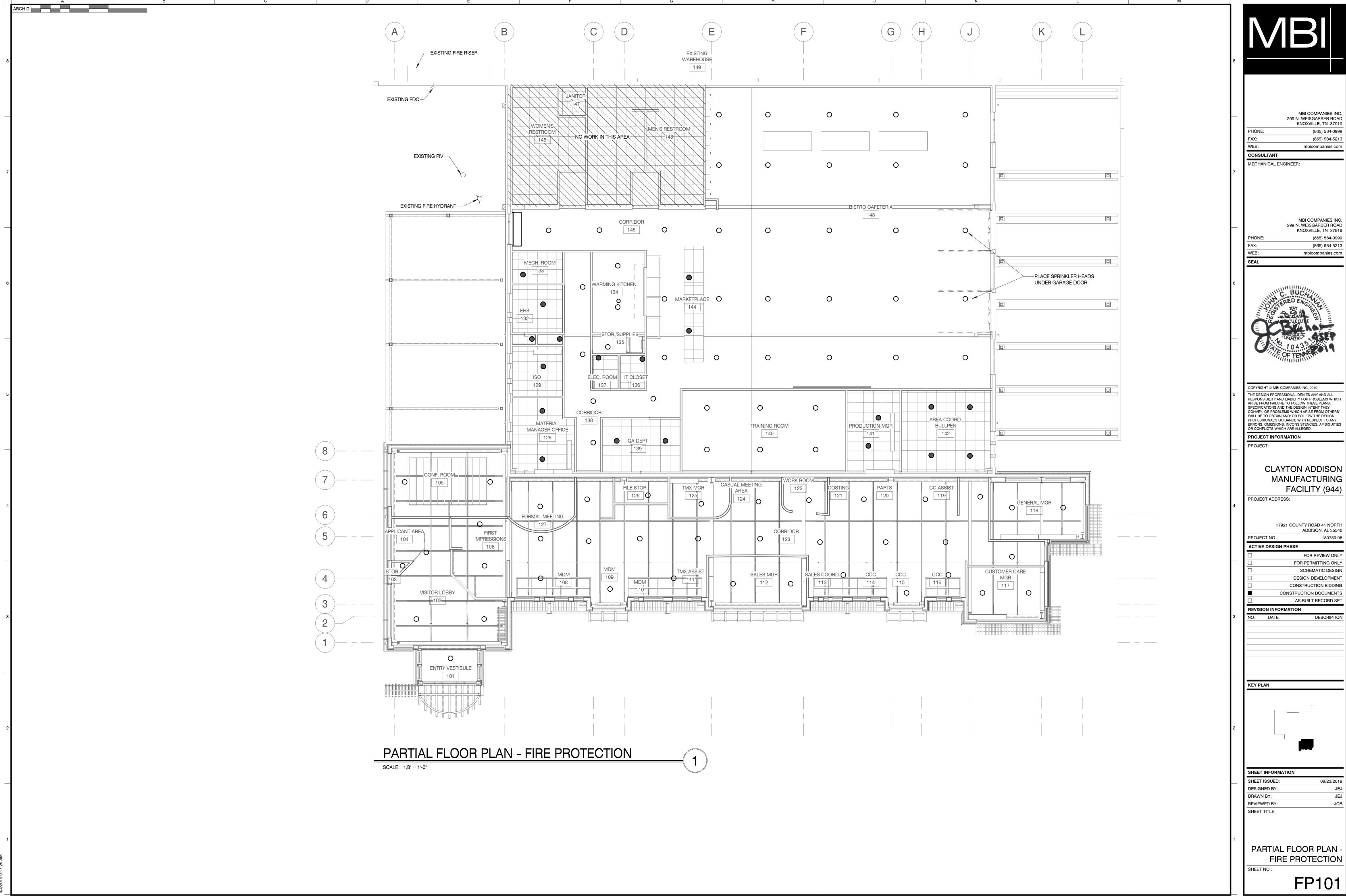
SHEET NO.:

SHEET INFORMATION SHEET ISSUED 08/23/201 DESIGNED BY DRAWN BY: REVIEWED BY

FIRE PROTECTION **LEGENDS** SPECIFICATIONS, AND

FP001

NOTES



MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919



CLAYTON ADDISON MANUFACTURING

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING

_							
ARCH D		AIR DIS	TRIBUTION EQUI	PMENT SO	CHEDULE		HVAC SPEC
DESIG	NATION	SERVICE	DESCRIPTION	MATERIAL/FINISH	MANUFACTURER MODEL NUMBER		I. GENERAL
\boxtimes	CD1	SQUARE, 3- CONE, CEILING SUPPLY DIFFUSER	24"x24" FACE T-BAR LAY-IN ADJUSTABLE PATTERN W/ O.B.D.	ALUMINUM WHITE ENAMEL	PRICE ASCDA	0-110 6"Ø 111-240 8"Ø 241-420 10"Ø	A. SCOPE: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, CON SERVICES NECESSARY TO INSTALL THE COMPLETE AND OPERA INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, AND IN A IF THERE IS A CONFLICT BETWEEN CODES AND OR THE CONTR MORE STRINGENT OF THE REQUIREMENTS. ALL MATERIALS SH
	CD2	SQUARE, 3- CONE, CEILING SUPPLY DIFFUSER	SURFACE MOUNTED, ADJUSTABLE PATTERN WITH O.B.D.	ALUMINUM WHITE ENAMEL	PRICE ASCDA	421-615 12"Ø 616-840 14"Ø	BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO BE ARI & U.L. LISTED WHERE APPLICABLE AND RATED FOR THE BE PROVIDED WITH ALL NECESSARY TRANSFORMERS, SEALS,
	SWS1	SIDEWALL SUPPLY GRILLE	DOUBLE DEFLECTION	ALUMINUM WHITE ENAMEL	PRICE 620D		B. ELECTRICAL WORK: ALL CONDUIT, ROUGH IN ELECTRICAL E WIRING, SHALL BE INCLUDED UNDER THE ELECTRICAL SECTION
	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 816-1300 18x18	. C. SUBMITTAL DATA: PRIOR TO ORDERING EQUIPMENT THE CO
	CR2		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		1301-1680 22x22	THREE (3) COPIES OF THE EQUIPMENT BROCHURES, TECHNICAL ELECTRONIC SUBMITTAL IS ACCEPTABLE. CONTRACTOR IS INS ELECTRONICALLY AND AVOID MULTIPLE COMMUNICATIONS. D. NOISE AND VIBRATION: EQUIPMENT SHALL OPERATE QUIETI
	SWR1	SIDEWALL RETURN GRILLE	O DEG. FIXED HORZONTAL FACE BARS	ALUMINUM WHITE ENAMEL	PRICE 510ZD		PERCEPTIVE VIBRATION OR OBJECTIONABLE NOISE IN ANY POF E. MAINTENANCE MANUALS AND INSTRUCTIONS: FURNISH (3)
	CE1	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 WHITE ENAMEL	PRICE 80DAL-TB	0-415 10x10 416-815 14x14 816-1300 18x18 1301-1680 22x22	DIAGRAMS, BOUND AND COVERED AND DELIVERED TO THE ART OPERATION OF THE CONTROL SYSTEM. THE CONTRACTOR SHA
· SIZ	ING CO		EVICE NECK SIZE ONLY. RUN-OUT DUC	•	SEE FLOOR PLAN DI	RAWINGS.)	F. WARRANTIES: 1. FURNISH A FIVE (5) YEAR WARRANTY ON ALL COMPRESS

- 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. VERIFY EXACT FRAME TYPE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

HVAC SPECIFICATIONS

GENERAL

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. F 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 & U.L. LISTED WHERE APPLICABLE AND RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES AND SHALL BE PROVIDED WITH ALL NECESSARY TRANSFORMERS. SEALS, VALVES. CONNECTIONS, ETC. TO FUNCTION PROPERLY.

ELECTRICAL WORK: 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.

: SUBMITTAL DATA: PRIOR TO ORDERING EQUIPMENT THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A MINIMUM OF THREE (3) COPIES OF THE EQUIPMENT BROCHURES, TECHNICAL DATA AND/OR SHOP DRAWINGS. AS AN ALTERNATIVE, AN ELECTRONIC SUBMITTAL IS ACCEPTABLE. CONTRACTOR IS INSTRUCTED CONSOLIDATE INFORMATION WHEN SUBMITTING

). NOISE AND VIBRATION: EQUIPMENT SHALL OPERATE QUIETLY. THE OPERATION OF THE EQUIPMENT SHALL CAUSE NO PERCEPTIVE VIBRATION OR OBJECTIONABLE NOISE IN ANY PORTION OF THE BUILDING OR STRUCTURE.

MAINTENANCE MANUALS AND INSTRUCTIONS: FURNISH (3) THREE SETS OF OPERATING INSTRUCTIONS COVERING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM AND EQUIPMENT, WARRANTIES, CONTROL SEQUENCE AND DIAGRAMS, BOUND AND COVERED AND DELIVERED 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.

WARRANTIES:

- 1. FURNISH A FIVE (5) YEAR WARRANTY ON ALL COMPRESSORS AND REFRIGERATION CIRCUIT AND A ONE (1) YEAR
- WARRANTY ON ALL CONTROLS AND OTHER EQUIPMENT. 2. 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.
- 3. ANY REPAIRS REQUIRING SYSTEM SHUT DOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS. 4. THE MC SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BIDDING AND PURCHASING ANY EQUIPMENT. 5. 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 BALANCE COUNCIL (ABC) STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER. PROVIDE FINAL BALANCING FOR ALL SYSTEMS TO SATISFACTION OF OWNER AND ENGINEER. T & B CONTRACTOR SHALL VISIT THE JOB SITE DURING CONSTRUCTION TO ENSURE THAT ALL
- DUCTS, DAMPERS, AND OTHER AIR CONTROL DEVICES ARE INSTALLED FOR PROPER AND QUIET AIR DELIVERY. 6. EQUIPMENT ANCHORAGE: PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR EQUIPMENT ANCHORAGE TO BUILDING STRUCTURE.

PERMITS, ORDINANCES, AND INSPECTIONS:

- OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED. DELIVER TO THE ARCHITECT, ALL CERTIFICATES
- AND INSPECTION REPORTS. 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, STATE, OR NATIONAL ORDINANCES AND CODES. EFFORT HAS BEEN MADE TO MEET OR EXCEED REQUIREMENTS. THE CONTRACTOR SHALL MAKE ANY MINOR ADJUSTMENTS TO MEET THESE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER.

I. PRODUCTS

A. DUCTWORK

- a. SEE HVAC GENERAL NOTES FOR ADDITIONAL REQUIREMENTS
- b. DIMENSIONS INDICATED ON THE DRAWINGS ARE INSIDE AREAS. WHERE 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.
- 2. FLEXIBLE DUCTWORK. THE CONTRACTOR MAY INSTALL SUPPLY DIFFUSERS WITH A MAXIMUM OF A 5 FOOT RUN OF INSULATED FLEXIBLE DUCTWORK EQUAL TO FLEXMASTER TYPE 1M, MINIMUM R=8. ALL FLEXIBLE DUCTWORK SHALL BE INSTALLED AND ENDS TERMINATED IN COMPLIANCE WITH THE METHODS SHOWN IN THE ADC INSTALLATION MANUAL AND USE METAL STRAPS NOT LESS THAN 1-1/2" WIDE AT A MAXIMUM OF 5 FEET ON CENTER. DUCTS SHALL NOT DEFLECT MORE THAN 1/2" IN 5 FEET NOR HAVE ANY KINKS OR RESTRICTIONS TO FLOW. ELBOWS SHALL HAVE A MINIMUM RADIUS OF ONE DUCT DIAMETER WITH INTERIOR LINER FULLY EXTENDED. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN NOR EXHAUST SYSTEMS.

3. LOW PRESSURE DUCTWORK

- a. CONCEALED SYSTEMS. (DEFINED AS ANY DUCTWORK NOT VISIBLE TO OCCUPANTS OF A SPACE) PROVIDE MINIMUM 26 GAUGE RECTANGULAR 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.
- 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 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 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.
- 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.
- 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 <u>VISIBLE</u> 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.
 - 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.

B. DAMPERS: 1. PROVIDE APPROVED MANUAL BALANCE DAMPERS WHERE SHOWN ON THE PLANS FOR THE PROPER REGULATION OF

THE AIR HANDLING SYSTEM AND SO LOCATE AS TO BE ACCESSIBLE. 2. INSTALL NFPA APPROVED, FUSIBLE LINK OPERATED TYPE "B" FIRE DAMPERS OF SUITABLE RATING IN ALL DUCTWORK PENETRATIONS OF RATED WALLS AND FLOORS IN LOCATIONS REQUIRED BY LOCAL AND STATE ORDINANCES.

PROVIDE ACCESS IN BOTH CEILING CONSTRUCTION AND DUCTWORK FOR MAINTENANCE OF FIRE DAMPERS.

- . GRILLES. REGISTERS, AND DIFFUSERS: 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 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. 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.

 CONTROLS SHALL BE ELECTRIC/ELECTRONIC TYPE, PROVIDE ALL WIRING, ACTUATORS, AND CONTROL DEVICES. 2. FURNISH ALL THERMOSTATS AND SENSORS WITH INSULATED SUB-BASE.

HVAC GENERAL NOTES

- 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
- COORDINATE CEILING DIFFUSERS AND REGISTER LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING. COORDINATE SIDE WALL GRILLES AND REGISTERS WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.
- 3. DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE NET AIR SIDE DIMENSIONS.
- 4. 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.
- . 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.
- 6. THE CONTRACTOR MAY INSTALL DIFFUSERS WITH A MAXIMUM OF A 5 FOOT RUN OF INSULATED FLEXIBLE $\,$ DUCTWORK EQUAL TO FLEXMASTER TYPE 8. ALL FLEXIBLE DUCTWORK SHALL BE INSTALLED AND ENDS TERMINATED IN COMPLIANCE WITH THE METHODS SHOWN IN THE ADC INSTALLATION MANUAL AND USE METAL STRAPS NOT LESS THAN 1-1/2" WIDE AT A MAXIMUM OF 5 FEET ON CENTER. DUCTS SHALL NOT DEFLECT MORE THAN 1/2" IN 5 FEET NOR HAVE ANY KINKS OR RESTRICTIONS TO FLOW. ELBOWS SHALL HAVE A MINIMUM RADIUS OF ONE DUCT DIAMETER WITH INTERIOR LINER FULLY EXTENDED.
- RECTANGULAR SUPPLY AND RETURN BRANCH TAKE-OFFS SHALL BE 45° THROAT TAKE-OFFS WITH BALANCING DAMPERS IN THE BRANCH DOWN STREAM OF THE TAKE-OFF. ROUND SUPPLY AND RETURN TAKE-OFFS SHALL BE "BELLMOUTH" OR SPIN-IN FITTINGS WITH DAMPERS IN THE BRANCH DOWNSTREAM. PROVIDE BACKDRAFT DAMPERS ON ALL EXHAUST FANS AND/OR INLINE FANS.
- B. <u>ALL LOUVERS, ALL GRILLES, EXPOSED PIPING, EXPOSED</u> EQUIPMENT, AND <u>EXPOSED</u> 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.
- 9. THERMOSTATS AND SENSORS SHALL BE LOCATED 48" AFF 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.
- 10. 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.
- 11. INSTALL ALL EQUIPMENT ACCORDING TO THE MANUFACTURERS' INSTRUCTIONS.
- 12. REFRIGERANT PIPING SHALL BE PRECHARGED TUBING PACKAGES OR TYPE ACR COPPER TUBING IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
- 13. PROVIDE A MINIMUM OF 10' CLEARANCE BETWEEN FRESH AIR INTAKES AND EXHAUST OUTLETS, RELIEF OUTLETS, PLUMBING VENTS, ETC.
- 14. 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. 5. 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.
- 16. 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.
- 17. ALL WARRANTIES SHALL BEGIN UPON FINAL ACCEPTANCE BY THE OWNER, NOT BENEFICIAL USE BY THE CONTRACTOR.
- 18. ALL OF THE COSTS ASSOCIATED WITH PROVIDING TEMPORARY HEATING AND COOLING SHALL BE BORNE SOLELY BY FILTERS, DUCT AND EQUIPMENT CLEANING, ENGINEER'S TIME, TEST AND BALANCE AGENT TIME TO SUPPORT THE ENGINEER'S INSPECTION, ETC.
- 9. 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.
- 20. 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.
- 21, PROVIDE VIBRATION ISOLATORS ON ALL MECHANICAL EQUIPMENT. IF NOT SPECIFICALLY CALLED OUT. PROVIDE AS RECOMMENDED BY MANUFACTURER FOR QUIET OPERATION.
- 22. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.
- 23. <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.
- 24. SUBMITTALS AND ACCEPTANCE: THE CONTRACTOR SHALL SUBMIT A MINIMUM OF THREE (3) SETS OF HVAC SHOP DRAWINGS TO THE PROJECT MANAGER WHO SHALL THEN RELAY THEM TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF EQUIPMENT. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL SUBMIT OPERATION AND MAINTENANCE MANUALS FOR ALL MECHANICAL EQUIPMENT INCLUDED IN THE PROJECT. THE MANUALS SHALL BE COMPILED INTO A THREE RING BINDER AND TURNED OVER TO BUILDING OWNER.

	HVAC SYMBOLS AM		REVIATIONS
2 12"Ø	ROUND DUCTWORK. DIAMETER INDICATED IN INCHES	AC ACCU	AIR CONDITIONER (ING) AIR COOLED CONDENSING UNIT
20x12 <	RECTANGULAR SUPPLY AND RETURN	AFF AHU	ABOVE FINISHED FLOOR AIR HANDLING UNIT
200.12	DUCTWORK. SIZE INDICATED IN INCHES, FIRST NUMBER IS SIDE SHOWN	BALV BF	BALANCING VALVE BUTTERFLY VALVE
	FLEXIBLE DUCT	BHP BOD	BRAKE HORSEPOWER BOTTOM OF DUCT
	SUPPLY OR OUTSIDE AIR DUCT UP	BTU BTUH	BRITISH THERMAL UNIT BTU/HOUR
	OUT ET ON COTOIDE AIN DOOT OF	BV	BALL VALVE
	SUPPLY OR OUTSIDE AIR DUCT DOWN	CAD	COMPUTER AIDED DRAFTING CLOSED CIRCUIT COOLER
	RETURN AIR DUCT UP	CD CFM	CEILING DIFFUSER CUBIC FEET PER MINUTE
	RETURN AIR DUCT DOWN	CH COP	CHILLER COEFFICIENT OF PERFORMANCE
		CP CR	CONTROL PANEL CEILING RETURN OR CONDENSATE RETURN
20X12 }	EXISTING DUCTWORK TO REMAIN	CS CT	CIRCUIT SETTER COOLING TOWER
Z X - Z - X - X	EXISTING DUCTWORK TO BE REMOVED	CU CWR	CONDENSING UNIT CHILLED WATER RETURN
7 10	90 DEGREE DUCTWORK ELBOW.	CWS DB	CHILLED WATER SUPPLY DRY BULB (TEMPERATURE)
	RADIUS DUCTWORK ELBOW -	DG DMS	DOOR GRILLE DUCTLESS MINI-SPLIT SYSTEM
	ROUND OR RECTANGULAR	EA EAT	EXHAUST AIR
	FLARED SPIN-IN WITH DAMPER AND FLEX DUCT (DIFFUSER CONNECTION)	EC	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR
	ROUND AND RECTANGULAR DUCT BRANCH	EER EF	ENERGY EFFICIENCY RATING EXHAUST FAN
	TAKE-OFF FROM RECTANGULAR MAIN WITH CONICAL TAP	ELEV ERV	ELEVATION ENERGY RECOVERY VENTILATOR
-	DUCTWORK SIZE TRANSITION	EVAP EWT	EVAPORATION OR EVAPORATIVE ENTERING WATER TEMPERATURE
	DUCTWORK SQUARE TO ROUND TRANSITION	FC FD	FAN COIL FLOOR DRAIN
•	POINT OF CONNECTION TO EXISTING	FP FPC	FIRE PROTECTION FIRE PROTECTION CONTRACTOR
T) EQUIP-#	THERMOSTAT	FPM FS	FEET PER MINUTE FLOOR SINK
		FZ GC	FREEZE GENERAL CONTRACTOR
S EQUIP-#	SENSOR	GV HD	GATE VALVE HUB DRAIN
\$ EQUIP-#	SWITCH	HEPA HP	HIGH EFFICIENCY PARTICULATE ARRESTANCE HEAT PUMP OR HORSEPOWER
M	MOTOR OPERATED DAMPER	HVAC HWR	HEATING, VENTILATING, AND AC HEATING WATER RETURN
(a)	SMOKE DETECTOR - FURNISHED AND WIRED BY	HWS	HEATING WATER SUPPLY
(SD)	ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR	MBH KW	1,000 BTU/HOUR KILOWATT
•	FIRE DAMPER	LAT LEED	LEAVING AIR TEMPERATURE LEADERSHIP IN ENERGY EFFICIENT DESIGN
	SECURITY BAR	LWT M	LEAVING WATER TEMPERATURE MOTOR
	PROVIDE AND INSTALL A U.L. LISTED FIRE RATED	MAT MAU	MIXED AIR TEMPERATURE MAKE UP AIR UNIT
	CEILING DAMPER IN ACCORDANCE WITH FIRE RATING. DAMPER SHALL BE RUSKIN CFD TYPE	MC MCA	MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPERES
TYPE	OR APPROVED SUBSTITUTE	MOCP	MAXIMUM OVER CURRENT PROTECTION (AMPERES)
CD-1 100	DIFFUSER/GRILLE LABEL	MOD MVD	MOTOR OPERATED DAMPER MANUAL VOLUME DAMPER
AIRFLO W (CFM)	DIFFOSEN/GNILLE LABEL	OA OFCI	OUTSIDE AIR OWNER FURNISHED, CONTRACTOR
— L	VOLUME CONTROL DAMPER	INSTALLED PA	PRESSURIZATION AIR
→ CWS →	CHILLED WATER SUPPLY PIPE	PC	PLUMBING CONTRACTOR OR PERSONAL COMPUTER
	CHILLED WATER RETURN PIPE	PL PTAC	PRIMARY LOOP
→ HWS →	HOT WATER SUPPLY PIPE	PT	PACKAGED TERMINAL AC PRESSURE TRANSMITTER
	HOT WATER RETURN PIPE EXISTING PIPING TO REMAIN	PU PWR	PACKAGED UNIT PROCESS WATER RETURN
(NAMF	EXISTING TO BE REMOVED	PWS RA	PROCESS WATER SUPPLY RETURN OR RELIEF AIR
→ RHG →	REFRIG. HOT GAS LINE	RF RH	RETURN OR RELIEF FAN REHEAT OR RELATIVE HUMIDITY
	REFRIG. LIQUID LINE REFRIG SUCTION LINE	RPM RTU	REVOLUTIONS PER MINUTE ROOFTOP UNIT
2 1,3	STRAINER	SA SEER	SUPPLY AIR SEASONAL ENERGY EFFICIENCY RATTING
	GAS COCK	SF SL	SUPPLY FAN SECONDARY LOOP
	BALANCING VALVE	SS ST	STAINLESS STEEL STEAM
₹	PLUG VALVE	SWS SWR	SIDE WALL SUPPLY (GRILLE) SIDE WALL RETURN (GRILLE)
$\begin{array}{c} \\ \\ \\ \end{array}$	GATE VALVE	TDV TG	TRIPLE DUTY VALVE TRANSFER GRILLE
2-10	BUTTERFLY VALVE	TOD TT	TOP OF DUCT TEMPERATURE TRANSMITTER
2-102	BALL VALVE	UV VAV	ULTRAVIOLET LIGHT VARIABLE AIR VOLUME
	CHECK VALVE	VEL	VELOCITY
		VFD VVT	VARIABLE FREQUENCY DRIVE VARIABLE (VOLUME) VARIABLE
	TRIPLE DUTY VALVE	WB	(TEMPERATURE) WET BULB (TEMPERATURE)
	PRESSURE RELIEF VALVE	WSHP XWS	WATER SOURCE HEAT PUMP CONDENSER WATER SUPPLY
~ G→	PIPE TURNING DOWN	XWR #	CONDENSER WATER RETURN POUNDS
$\bigcirc \longrightarrow$	PIPE TURNING UP	1	
TW	THERMOMETER		
	GAUGE	_	
\ <u>\</u>	PIPE SLEEVE OR GUIDE]	
<u></u>	PIPE ANCHOR	1	
		-	
GC 	GAUGE COCK		
	•		

HVAC SYMBOLS AND ABBREVIATIONS



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PROJECT INFORMATION

PROJECT: **CLAYTON ADDISON**

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORT PROJECT NO :

MANUFACTURING

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN

DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

REVISION INFORMATION

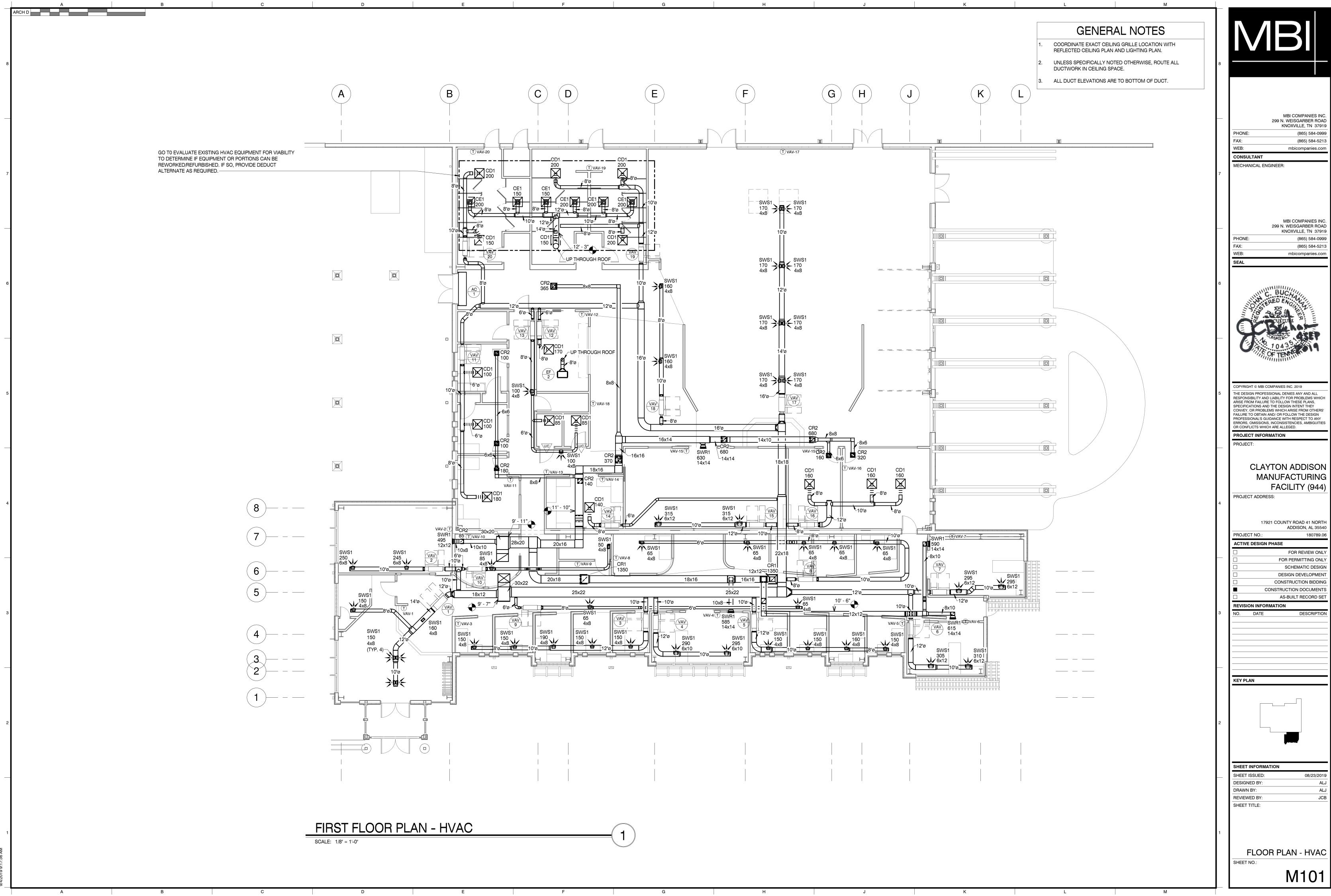
KEY PLAN

SHEET INFORMATION SHEET ISSUED 08/23/201 DESIGNED BY: DRAWN BY: REVIEWED BY

HVAC LEGENDS SPECIFICATIONS, AND

SHEET NO.:

SHEET TITLE:

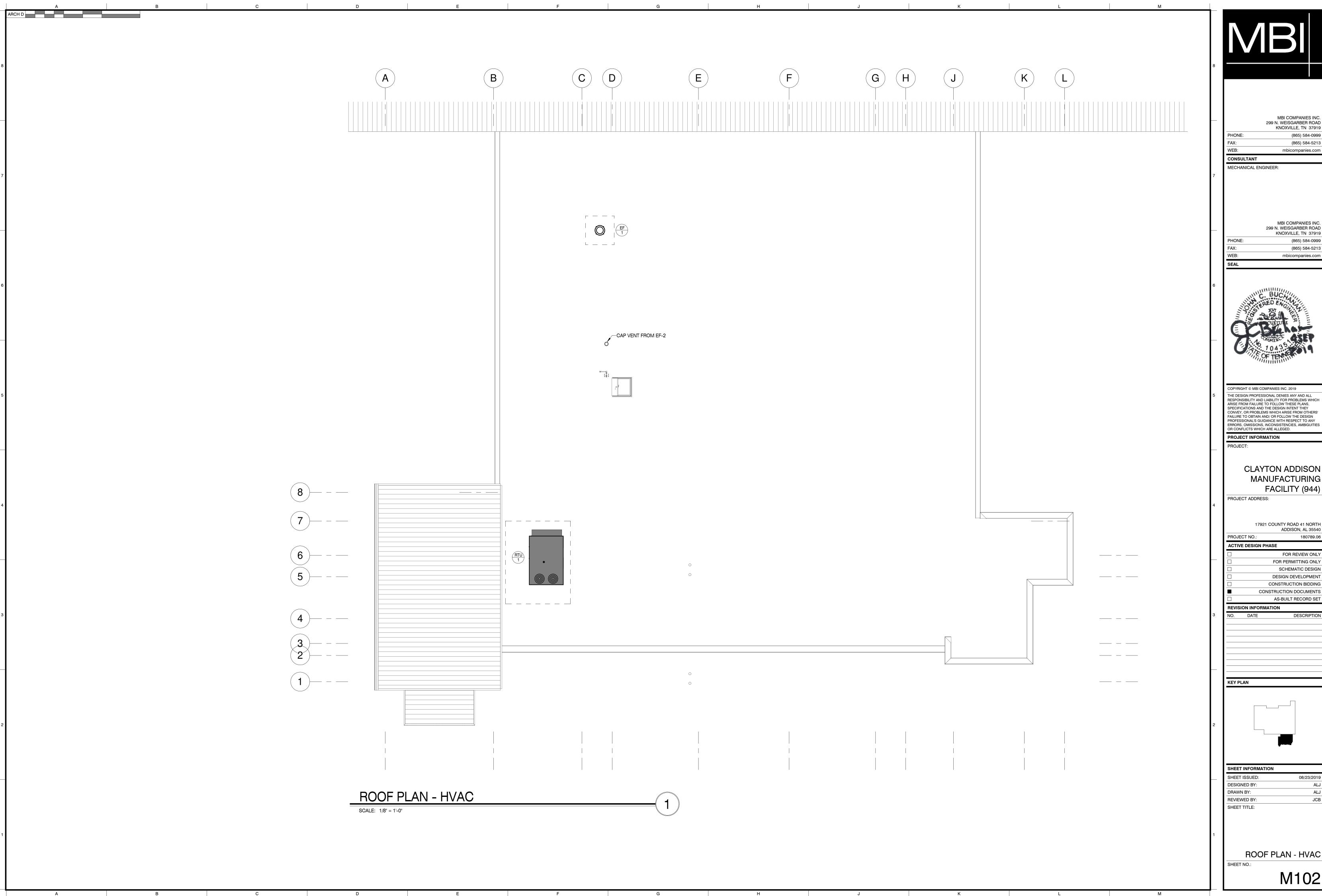




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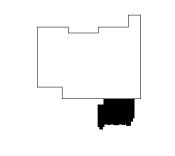
> CLAYTON ADDISON MANUFACTURING FACILITY (944)

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT

CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET



				VARI	ABLE \	/OLUM	ECE	NTR	AL S	TAT	ΓΙΟΝ	I All	R HA	NDL	ER	SC	CHE	DU	LE			
	S	UPPLY AI	R			DX COOLING	3		El	ECTRIC	HEATIN	IG		OKE	EFF	ICIEN	CIES		NGLE P			
DRAWING					TEMPS (°F) @	95°F AMBIENT	NET CAP (ME		kW	OUT	EAT	LAT		CTORS					LECTRI		/LBC\	
SYMBOL	CFM	(IN. WG)	HP	CFM	UNIT ENT AIR	COIL LVG AIR	TOTAL	SENS		MBH	(°F)	(°F)	SUPPLY	RETURN	EER	IEER	AFUE	MCA	MOCP	VOLTAGE	(LBS.)	NUMBER
RTU 1	10,000	0.875	7.5	1,540	74.0 DB 62.6 WB	56.8 DB 54.1 WB	276.25	217.9	36.0	122.9	70.0	81.3	YES	YES	10.6	?	?	69.0	70	460/3ø	2,182	TRANE THD300

ACCESSORIES AND FEATURES: PROVIDE NON-FUSED DISCONNECT.

- PROVIDE 5 YEAR COMPRESSOR WARRANTY.
- PROVIDE WITH DOUBLE WALL INSULATED CONSTRUCTION, CLASS "A" THERMAL BREAK (NO THRU METAL)
- PROVIDE ROOF CURB COMPATIBLE WITH ROOF SYSTEM INSTALLED.
- COOLING CAPACITIES ARE SCHEDULED AT 95 DEGREES OUTDOOR TEMPERATURE. PROVIDE ONE VFD PER MOTOR FOR EACH UNIT. VFD'S TO BE INSTALLED WITHIN UNIT. PROVIDE PERFORATED ACOUSTIC LINER. FAN MOTORS SHALL HAVE SHAFT GROUNDING RINGS.
- PROVIDE TYPE "M" COPPER CONDENSATE DRAIN WITH P-TRAP. SPILL ON SPLASH BLOCK. PROVIDE ALL COILS WITH POSTIVIELY SLOPED STAINLESS STEEL DRAIN PANS. PROVIDE AT EACH COIL PAN A FLOAT SWITCH INTERLOCKED TO SHUT UNIT DOWN UPON HIGH WATER LEVEL. AN ALARM SHALL BE
- SENT TO THE CONTROL SYSTEM. PROVIDE AUTOMATIC SHUTDOWN BY SUPPLY AND RETURN DUCT MOUNTED SMOKE DETECTORS. DETECTORS ARE TO BE PROVIDED BY AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED IN
- DUCTWORK BY THE MECHANICAL CONTRACTOR. INSTALL PER NFPA AND ALL LOCAL CODES. PROVIDE UNIT WITH WEB ACCESS MICROPROCESSOR CONTROLLER. SEE CONTROL DESCRIPTIONS AND SEQUENCES OPERATION FOR ADDITIONAL INFORMATION.
- PROVIDE AIRFLOW STATIONS FOR SUPPLY, RETURN, AND OUTSIDE AIR..
- FILTER SECTIONS ARE INTERNAL TO THE UNIT AND ARE <u>CALCULATED AS INTERNAL PRESSURE DROPS</u>.
- PROVIDE COMPARITIVE ENTHALPY ECONOMIZER.
- MANUFACTURER SHALL BE TRANE OR ENGINEERED APPROVED EQUAL

			VAV B	OX WI	TH ELE	CTRI	C RE-I	HEAT	SCHE	DULE		
DRAWING SYMBOL	COOLING OUPPER LIMIT	LOWER LIMIT	NC LEVEL @ UPPER LIMIT CFM	MAX. S.P. THRU BOX (IN. WG)	INLET SIZE	CFM	MAX. MBH	RE-H KW	VOLTAGE	MCA	MOCP	MANUFACTURER MODEL NO.
VAV 1	910	455	26	0.75	10"	455	17.5	5.5	277/1ø	24.8	25	TRANE VCEF10
VAV 2	495	250	26	0.75	6"	250	9.6	3.0	277/1ø	10.8	15	TRANE VCEF06
VAV 3	790	395	30	0.75	8"	395	15.2	4.5	277/1ø	16.2	20	TRANE VCEF08
VAV 4	585	295	26	0.75	8"	295	11.4	3.5	277/1ø	12.6	15	TRANE VCEF08
VAV 5	610	305	26	0.75	8"	305	11.7	3.5	277/1ø	12.6	15	TRANE VCEF08
VAV 6	615	310	26	0.75	8"	310	11.9	3.5	277/1ø	12.6	15	TRANE VCEF08
VAV 7	590	295	26	0.75	8"	295	11.4	3.5	277/1ø	12.6	15	TRANE VCEF08
VAV 8	325	165	29	0.75	5"	165	6.4	2.0	277/1ø	7.2	15	TRANE VCEF05
VAV 9	130	65	19	0.75	4"	65	2.5	1.0	277/1ø	3.6	15	TRANE VCEF04
VAV 10	135	70	19	0.75	4"	70	2.7	1.0	277/1ø	3.6	15	TRANE VCEF04
VAV 11	370	185	21	0.75	6"	185	7.1	2.5	277/1ø	9.0	15	TRANE VCEF06
VAV 12	170	85	21	0.75	4"	85	3.3	1.0	277/1ø	3.6	15	TRANE VCEF04
VAV 13	235	120	25	0.75	5"	120	4.6	1.5	277/1ø	5.4	15	TRANE VCEF05
VAV 14	140	70	19	0.75	4"	70	2.7	1.0	277/1ø	3.6	15	TRANE VCEF04
VAV 15	630	315	27	0.75	8"	315	12.1	4.0	277/1ø	14.4	15	TRANE VCEF08
VAV 16	480	240	25	0.75	6"	240	9.2	3.0	277/1ø	10.8	15	TRANE VCEF06
VAV 17	1,360	685	31	0.75	10"	685	26.4	8.0	277/1ø	28.9	30	TRANE VCEF10
VAV 18	320	160	29	0.75	5"	160	6.2	2.0	277/1ø	7.2	15	TRANE VCEF05
VAV 19	750	375	29	0.75	8"	375	14.4	4.5	277/1ø	16.2	20	TRANE VCEF08
VAV 20	350	175	29	0.75	5"	175	6.7	2.0	277/1ø	7.2	15	TRANE VCEF05

ACCESSORIES AND FEATURES:

- EACH BOX TO BE PROVIDED WITH FLOW SENSOR, DAMPER OPERATOR AND DIRECT CONTROL REGULATOR. EACH UNIT SHALL HAVE A MINIMUM CFM ADJUTMENT AS SHOWN ABOVE. EACH UNIT SHALL REQUIRE A DIRECT ACTING TEMPARATURE SENSOR. SEE CONTROL
- SEQUENCES OF OPERATION FOR MORE INFORMATION
- EACH BOX SHALL BE PRESSURE INDEPENDENT.
- UNIT TO BE FORMED OF 24 GUAGE (MIN.) GALVANIZED STEEL AND SHALL BE ACOUSTICALLY AND THERMALLY LINED WITH 1" FOIL FACED INSULATION. INSULATION SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF NFPA 90A, UL 181, AND BACTERIOLOGICAL STANDARDS
- ALL TERMINALS TO BE RATED AT 1.5" INLET STATIC PRESSURE, MAX NCIS RADIATED AND DISCHARGE LEVELS WITHOUT ATTENUATION. DUCT RUN-OUT SIZES DO NOT EQUAL BOX INLET SIZES IN ALL CASES. A TRANSITION MAY BE REQUIRED. SEE PLANS.

			E	XHAL	JST F	AN SCHEE	DULE			
DRAWING SYMBOL	USE	CFM	S.P. IN. WG	RPM	HP / WATTS	TYPE	VOLTAGE	SONES	WEIGHT (LBS.)	MANUFACTURER MODEL NO.
EF 1	RESTROOM EXHAUST	1,100	0.5	1,725	1/3	ROOF MOUNTED CENTRIFUGAL	115/1ø	10.6	48	GREENHECK G-103-A
EF 2	KITCHEN EXHAUST	125	0.5	1,050	128 W	CEILING EXHAUST	115/1ø	4.0	10	GREENHECK SP-B150

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.

			AIR	CUF	RTAI	N SC	HE	DULE	Ī	
DRAWING SYMBOL	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	MOTOR HP	CFM	FLA	VOLTAGE	CONTROL	MANUFACTURER MODEL NO.
AC 1	84"	20"	12"	125	2 x 1/2	2,836	10.2	115 / 1Ø	INTERLOCKED W/ DOORS	MARS QP1084-2UA-AL
ACCESSO	RIFS AND F	FATURES:								

<u>ACCESSORIES AND FEATURES:</u>
- STANDARD ANONIZED ALUMINUM FINISH DOOR LIMIT SWITCHES

HVAC SCHEDULES

KEY PLAN SHEET INFORMATION

SHEET ISSUED: DESIGNED BY: DRAWN BY: REVIEWED BY: SHEET TITLE:

MBI COMPANIES INC.

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PHONE:

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CONSULTANT

MECHANICAL ENGINEER:

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OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION

> CLAYTON ADDISON MANUFACTURING

> > 17921 COUNTY ROAD 41 NORTH

180789.06

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN

DESIGN DEVELOPMENT

AS-BUILT RECORD SET

CONSTRUCTION BIDDING

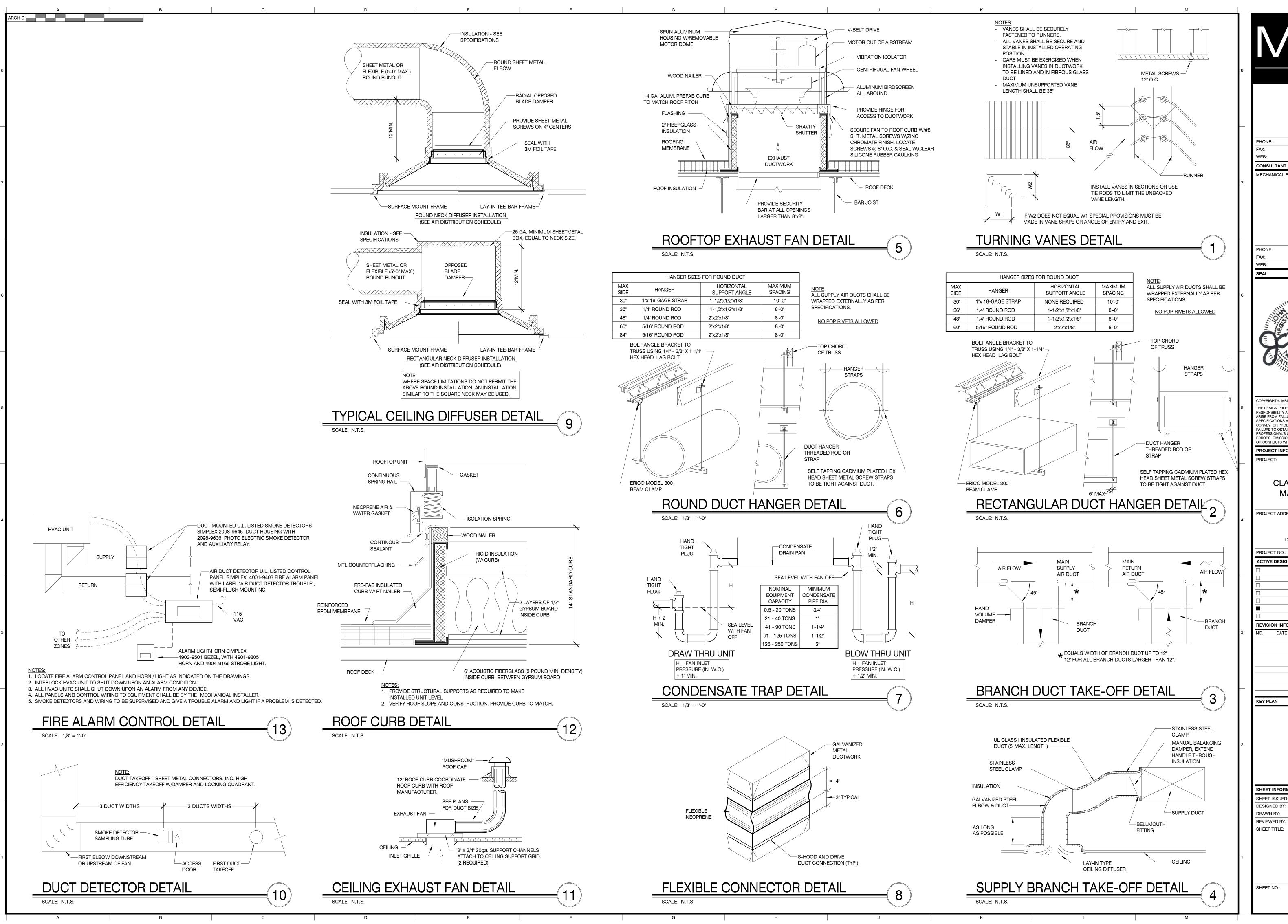
CONSTRUCTION DOCUMENTS

PROJECT:

PROJECT ADDRESS:

PROJECT NO .:

ACTIVE DESIGN PHASE



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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI ADDISON, AL 3554

PROJECT NO.: **ACTIVE DESIGN PHASE**

FOR REVIEW ONLY FOR PERMITTING ONL SCHEMATIC DESIGI DESIGN DEVELOPMENT CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE REVISION INFORMATION

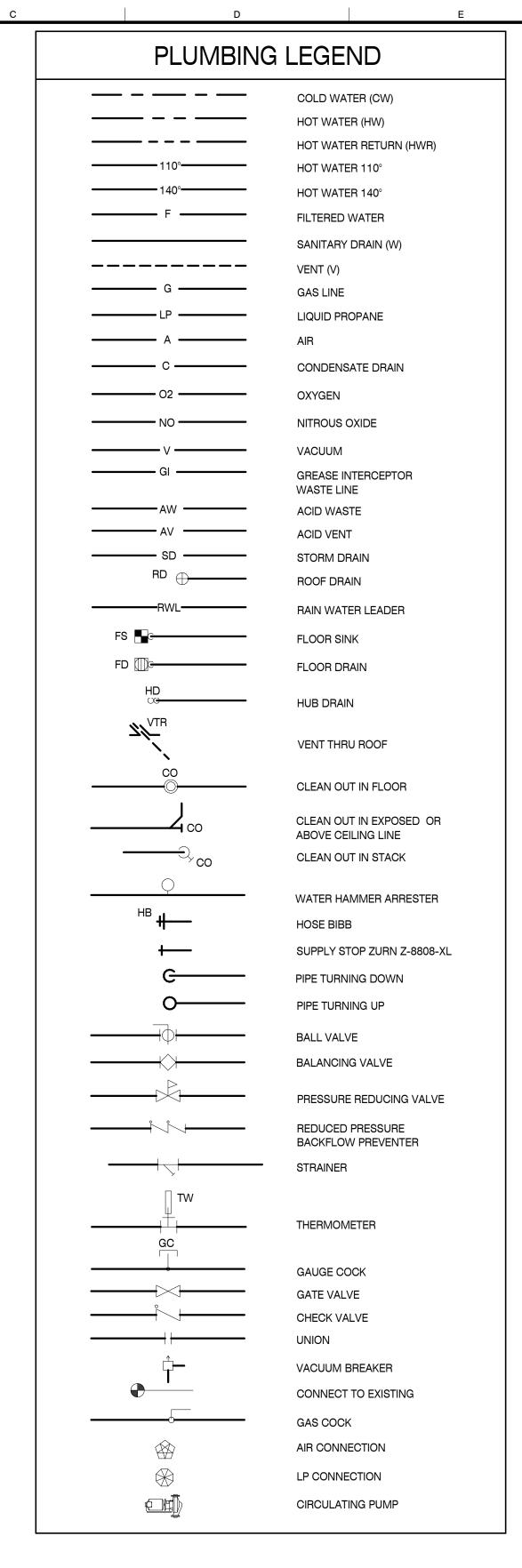
KEY PLAN

SHEET INFORMATION SHEET ISSUED:

08/23/201 DESIGNED BY: DRAWN BY: **REVIEWED BY:** SHEET TITLE:

HVAC DETAILS

M301



PLUMBING SPECIFICATIONS

- A. SCOPE: FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF ALL PLUMBING WORK REQUIRED ON THE DRAWINGS AND AS SPECIFIED HEREIN. B. WORK REQUIRED: IN GENERAL, THE WORK CONSISTS OF, BUT IS NOT LIMITED TO THE
- FOLLOWING: 1. DOMESTIC WATER SYSTEM CONNECTING TO EXISTING UTILITY
- 2. SANITARY SEWER SYSTEM CONNECTING TO EXISTING UTILITY
- 3. HOT WATER PIPING SYSTEM
- 4. PLUMBING FIXTURES 5. CONNECTION TO KITCHEN EQUIPMENT
- C. PERMITS. ORDINANCES. AND INSPECTIONS: 1. OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED. DELIVER TO ARCHITECT,
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, STATE, OR NATIONAL ORDINANCES AND CODES. EFFORT HAS BEEN MADE TO MEET OR EXCEED REQUIREMENTS. THE CONTRACTOR SHALL MAKE ANY MINOR ADJUSTMENTS TO MEET THESE
- REQUIREMENTS AT NO ADDITIONAL COST TO OWNER. D.INSTRUCTIONS AND INSTRUCTION BOOKLETS: THE CONTRACTOR SHALL INSTRUCT THE OWNER REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. FURNISH LITERATURE PROVIDED BY THE MANUFACTURER. PRINTED INSTRUCTIONS AND MAINTENANCE DATA
- SHALL BE BOUND WITH COVER IN DUPLICATE AND DELIVERED TO THE ARCHITECT. E. SUBMITTAL DATA: SUBMIT FOR APPROVAL, FIVE (5) COPIES, OF THE EQUIPMENT BROCHURES, TECHNICAL DATA AND/OR SHOP DRAWINGS.
- A. ALL MATERIALS SHALL BE NEW, FIRST CLASS, AND COMPLY WITH LATEST ASTM SPECIFICATIONS AND STANDARDS RELATING TO SUCH MATERIALS.
- B. WATER PIPING: 1. FURNISH AND INSTALL DIELECTRIC OR ISOLATION FITTINGS AT ALL POINTS WHERE COPPER PIPE CONNECTS TO WROUGHT IRON OR STEEL PIPE.
- EXPOSED PIPE IN TOILET ROOMS: CHROME PLATED BRASS, AMERICAN BRASS COMPANY, OR EQUIVALENT. FURNISH AND INSTALL CHROME WALL PLATES. 3. PIPING UNDER FLOOR SLAB SHALL BE TYPE K SOFT TEMPER COPPER TUBING ASTM B-88
- NO JOINTS SHALL BE PERMITTED UNDER FLOOR SLAB. 4. PIPING ABOVE FLOOR SLAB SHALL BE TYPE L HARD DRAWN COPPER TUBING ASTM B-88
- USE WROUGHT COPPER SWEAT FITTINGS C. SANITARY WASTE, AND VENT PIPING: PIPING SHALL BE CAST IRON NO HUB DWV PIPE AND
- FITTINGS ABOVE GRADE MEETING ASTM A 888 or CISPI 301 STANDARDS. BELOW GRADE PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC MEETING ASTM D 2665 STANDARDS. D. PIPE HANGERS: ADJUSTABLE WROUGHT CLEVIS TYPE HANGER AND RODS; GRINNELL COMPANY OR EQUIVALENT.
- E. CLEANOUTS: 1. FLOOR CLEANOUTS FOR SOIL AND WASTE LINES SHALL HAVE BODIES OF STANDARD PIPE SIZES AS MANUFACTURED BY ZURN OR EQUIVALENT.
- 2. WALL CLEANOUTS FOR SOIL AND WASTE LINES SHALL HAVE BODIES OF STANDARD PIPE SIZES AS MANUFACTURED BY ZURN OR EQUIVALENT. F. VALVES:
- 1. BUTTERFLY VALVES 2 1/2" AND LARGER.
 - 2. BALL VALVES 2" AND SMALLER.
 - 3. UNIONS SHALL HAVE BRASS TO METAL GROUND JOINT SEAL.
- G. ESCUTCHEON PLATES: PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE EXPOSED PIPE PASSES THROUGH WALLS, FLOORS, OR CEILING IN FINISHED AREAS. SEAL ALL PIPE PENETRATIONS WITH FIRE STOP AS REQUIRED, DRYWALL MUD OR GROUT TO MATCH ADJACENT
- H. PIPE INSULATION:
- 1. ALL HOT WATER PIPE ABOVE GRADE SHALL BE INSULATED WITH 1" FIBERGLASS, LOW PRESSURE INSULATION WITH WHITE UNIVERSAL JACKET. APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- 2. ALL COLD WATER PIPE ABOVE GRADE SHALL BE INSULATED WITH 1/2" FIBERGLASS AS
- I. WALL HYDRANT: "FROST PROOF" TYPE WITH VACUUM BREAKER ON ALL HOSE BIBS J. FIXTURES:
- 1. FURNISH AND INSTALL ALL PLUMBING FIXTURES INDICATED ON DRAWINGS. FIXTURES SHALL BE AMERICAN STANDARD, KOHLER, ELJER, OR AS SPECIFIED IN THE PLUMBING FIXTURE SCHEDULE.
- 2. TRAPS: FOR LAVATORIES AND SINKS: BRASS, CHROME PLATED. 3. PROVIDE DEEP SEAL TRAPS AND TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB
- K. HOT WATER HEATERS: 1. 99.000 BTUH INPUT AND LESS:
- CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 18" CLEAR AROUND HEATER.
- 2. 100,000 BTUH TO 199,000 BTUH INPUT: CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 18" CLEAR AROUND HEATER, AND SUBMIT A "APPLICATION FOR PERMISSION TO INSTALL" TO THE BOILER UNIT OF THE TENNESSEE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT'S WORKPLACE REGULATIONS AND COMPLIANCE DIVISION (REGISTRATION AND INSPECTION).
- 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.
- 4. 400,000 BTUH AND MORE: CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 36" CLEAR AROUND HEATER, THE HEATER MUST BE ASME CODE COMPLIANT, AND MUST BE FILED FOR REGISTRATION AND INSPECTION.

GENERAL PLUMBING NOTES

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES,
- 2. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- 3. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR, IN A FIRST-CLASS
- AND WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE. 4. ALL EXCAVATION AND BACKFILL, AS REQUIRED, FOR THIS PHASE OF CONSTRUCTION SHALL BE
- 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.
- 6. VERIFY LOCATION, SIZE, INVERTS AND ALL EXISTING UTILITIES PRIOR TO BEGINNING OF
- CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- 7. 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.
- 8. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON NO HUB ABOVE GRADE 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. INSULATE ALL CONDENSATE PIPING ABOVE GRADE.
- 10. INSULATE ALL HOT WATER SUPPLY, HOT WATER RETURN, RAINWATER AND CONDENSATE 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.
- 11. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND MARKED ACCESS PANELS.
- 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 EQUIPMENT CONNECTIONS. 14. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD (HAIR FELT LINING)
- 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
- 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.
- 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.
- 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. 18. PROVIDE CHROME-PLATED COMBINATION COVER PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS - JOSAM 58890 SERIES OR EQUAL.
- 19. PROVIDE EACH FIXTURE GROUP WITH ISOLATION VALVES, BOTH HOT (110) AND COLD WATER. 20. NO COMBUSTIBLE MATERIALS CAN BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES
- WHERE USED AS RETURN AIR PLENUMS.
- 21. PROVIDE BACKFLOW PREVENTER WILKINS MOD. # 575 OR EQUAL. 22. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING
- OF PIPING AND LOCATION OF FIXTURES. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND MAKE MINOR OFFSETS AND ADJUSTMENTS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 23. COORDINATE FIXTURES LOCATIONS WITH ARCHITECTURAL DRAWINGS. 24. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND
- PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES. 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
- 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.
- 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. 29. EXPOSED PIPING BELOW FIXTURES SHALL BE CHROME PLATED. PIPING AT FIXTURES IN
- HANDICAPPED ACCESSIBLE AREAS SHALL BE INSULATED TO PROTECT AGAINST BURNS.
- 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.
- 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" 35. PROVIDE A TWO PIPE DIAMETER AIR GAP BETWEEN ALL INDIRECT WASTE AND THE RECEIVER.
- 36. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS OF FIRE WALLS AND FLOOR CEILING ASSEMBLIES.
- 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 SAFETY SHUTOFF VALVES. (PHONE NUMBER - (248) 356-1400)
- 40. INSTALL WATER HEATERS IN ACCORD WITH MANUFACTURERS INSTRUCTION AND ALL STATE AND LOCAL CODE REQUIREMENTS. WATER STORAGE SHALL HAVE A TEMPERATURE OF 140
- 41. ALL LAVATORIES AND HAND SINKS SHALL HAVE AN APPROVED ASSE 1070 DEVICE(S) 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 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. 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. 43. ALL SANITARY AND GREASE WASTE PIPING IN AND/OR BELOW KITCHEN AREAS SHALL BE CAST
- IRON MEETING ASTM A 888 or CISPI 301 STANDARDS. 44. PROVIDE "TRUEBRO" MODEL NO. 102 P-TRAP AND ANGLE VALVE INSULATION ASSEMBLIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 45. THE "REDUCTION IN LEAD IN DRINKING WATER ACT" REQUIRES MATERIALS AND FIXTURES USED FOR THE DELIVERY OF POTABLE WATER TO CONTAIN LESS THAN 0.2% LEAD FOR SOLDER AND FLUX, AND NOT MORE THAN A WEIGHTED AVERAGE OF 0.25% LEAD FOR PIPES, FITTINGS, AND FIXTURES. EXCLUDED FROM THIS ACT ARE TOILETS, BIDETS, URINALS, FLUSH VALVES, TUB FILLERS, AND SHOWER VALVES.
- 46. IT IS THE INTENT OF THIS PROJECT TO CONFORM WITH THE REQUIREMENTS OF THE 2014 LEAD FREE ACT. EVERY EFFORT HAS BEEN MADE TO CALL FOR FIXTURES THAT COMPLY WITH THE ACT. EVEN SO, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSTALL PRODUCTS THAT COMPLY WITH THE 2014 LEAD FREE SAFE WATER DRINKING ACT.

PLUMBING ABBREVIATIONS

- ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION AHJ
- COMPRESSED AIR
- ANNUAL FUEL UTILIZATION EFFICIENCY AFUE
- BOP BOTTOM OF PIPE
- BTU BRITISH THERMAL UNIT BTUH BTU PER HOUR
- CFH CUBIC FEET PER HOUR **CUBIC FEET** CAST IRON
- CO CLEANOUT **CONDENSATE** CPVC CHLORINATED POLYVINYL CHLORIDE
- CW COLD WATER (DOMESTIC) DRINKING FOUNTAIN
- DUCTILE IRON EC **ELECTRICAL CONTRACTOR**
- ELECTRIC WATER COOLER FLOOR DRAIN FR FLOOD RIM FS FLOOR SINK
- **FEET OR FOOT** FZ **FREEZE** GALLON GC **GENERAL CONTRACTOR GREASE INTERCEPTOR**
- GPD GALLON PER DAY GPM **GALLON PER MINUTE** HOSE BIBB HD **HUB DRAIN**
- HS HAND SINK IDW INDIRECT WASTE IFGC INTERNATIONAL FUEL GAS CODE **INVERT ELEVATION**
- INTERNATIONAL PLUMBING CODE IPC INFRARED
- LAV LAVATORY LAUNDRY TUB
- **MANUFACTURER** MANF MV MIXING VALVE **METER**
- MBH 1,000 BTU PER HOUR MC MECHANICAL CONTRACTOR MS MOP SINK
- NG NATURAL GAS NIC NOT IN CONTRACT NO NITROUS OXIDE NTS NOT TO SCALE
- PLUMBING CONTRACTOR POLYTHINE POUNDS PER SQUARE INCH

OIL INTERCEPTOR

WATER CLOSET

WATER HEATER

- POLYVINYL CHLORIDE RD ROOF DRAIN
- REDUCED PRESSURE BACKFLOW PREVENTER RAIN WATER LEADER SANITARY SEWER
- SAN SD STORM DRAIN SQ SQUARE
- SS SERVICE SINK

WC

WH

- TOP TOP OF PIPE UR URINAL VAC VACUUM
- VIF **VERIFY IN FIELD** VTR **VENT TO ROOF** WB WASHER BOX

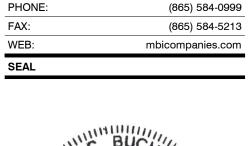


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OR CONFLICTS WHICH ARE ALLEGED PROJECT INFORMATION

> **CLAYTON ADDISON** MANUFACTURING

FACILITY (944) PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTI

ADDISON, AL 3554 PROJECT NO.: **ACTIVE DESIGN PHASE** FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE REVISION INFORMATION

KEY PLAN

SHEET INFORMATION SHEET ISSUED 08/23/201 DESIGNED BY:

PLUMBING LEGEND

SHEET NO.:

DRAWN BY: REVIEWED BY SHEET TITLE:

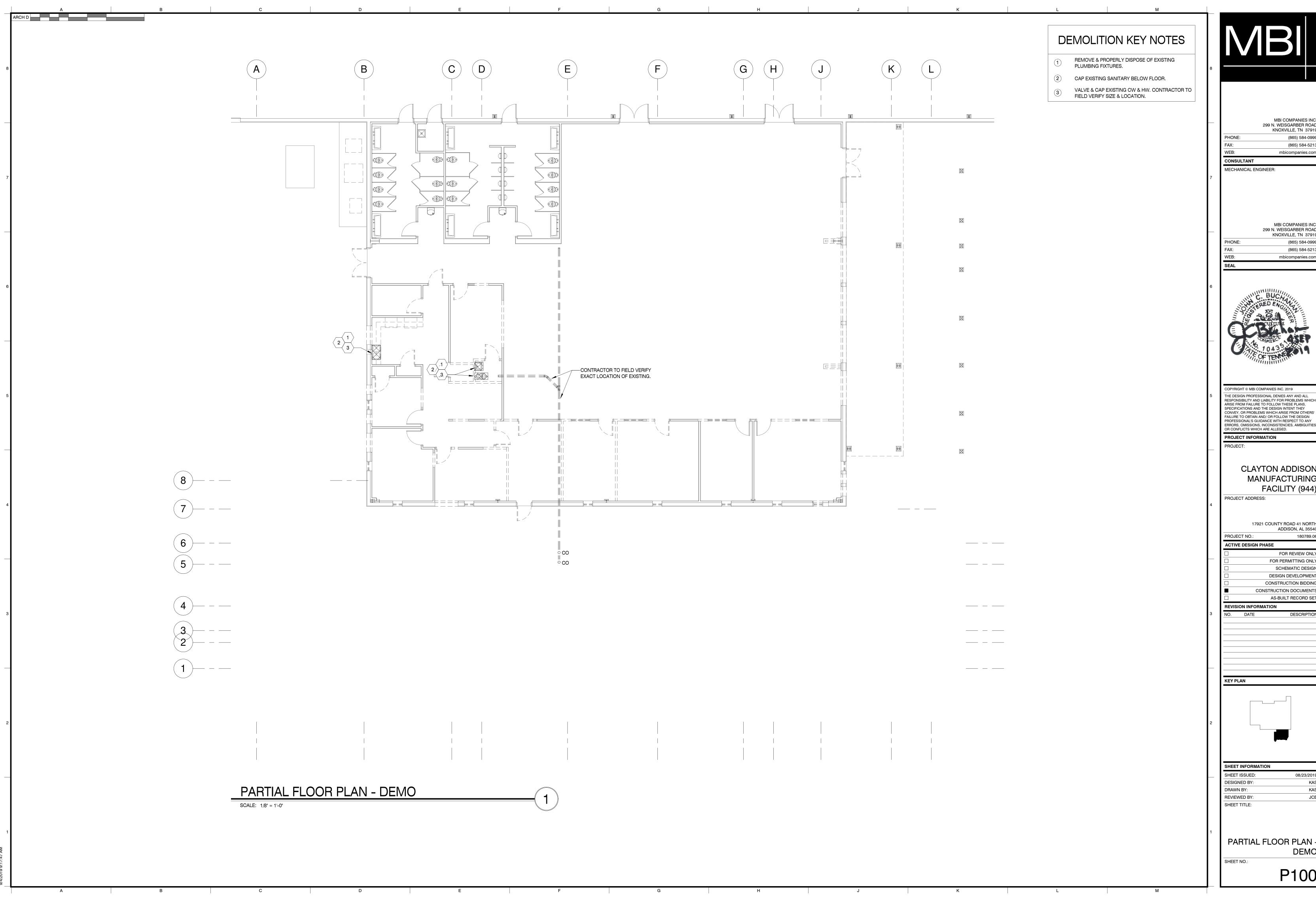
AND NOTES

PLUMBING FIXTURE SCHEDULE

**TRIM PRODUCTS (STOPS, PTRAPS, SUPPLIES ETC.) SHALL BE FROM SAME MANUFACTURER. ANY CONFLICTS WITH THE SCHEDULE AND THE CONSTRUCTION DOCUMENTS SHALL BE DIRECTED TO THE ENGINEER OF RECORD A MIN THREE (3) DAYS BEFORE BID DATE. CONTRACTOR SHALL PROVIDE A MIN OF THREE (3) COPIES OF SHOP DRAWINGS FOR APPROVAL. SEE SPECIFICATIONS

ITEM	DESCRIPTION	SPECIFICATION	CW (inch)	HW (inch)	W (inch)	V (inch)	REMARKS
S-1	SINK	ELKAY, MODEL # LR3322PD STAINLESS STEEL DOUBLE COMPARTMENT, 18 GA. STAINLESS STEEL, 4 HOLE SINK WITH INTEGRAL DRAIN SYSTEM.	1/2"	1/2"	1-1/2	1-1/4	
	FAUCET AND SUPPLIES	ZURN, MODEL # Z9908.423.0.19.B5.0 8"CC FAUCET WITH SINGLE CONTROL, SIDE SPRAY AND 10" CAST SWING SPOUT. PROVIDED WITH 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT, ½"NOM X 3/8"OD STOPS, 20" BRAIDED STAINLESS STEEL SUPPLY LINES AND ESCUTCHEONS.					

EQUAL PRODUCTS AND ALTERNATE MANUFACTURERS LISTED SHALL ALSO BE CONSIDERED: SLOAN, JOSAM, LEONARD, GUARDIAN, DURA-TRENCH, OASIS, HALSEY-TAYLOR, WILLOUGHBY





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PROJECT INFORMATION

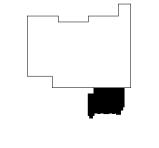
CLAYTON ADDISON MANUFACTURING FACILITY (944)

17921 COUNTY ROAD 41 NORTH

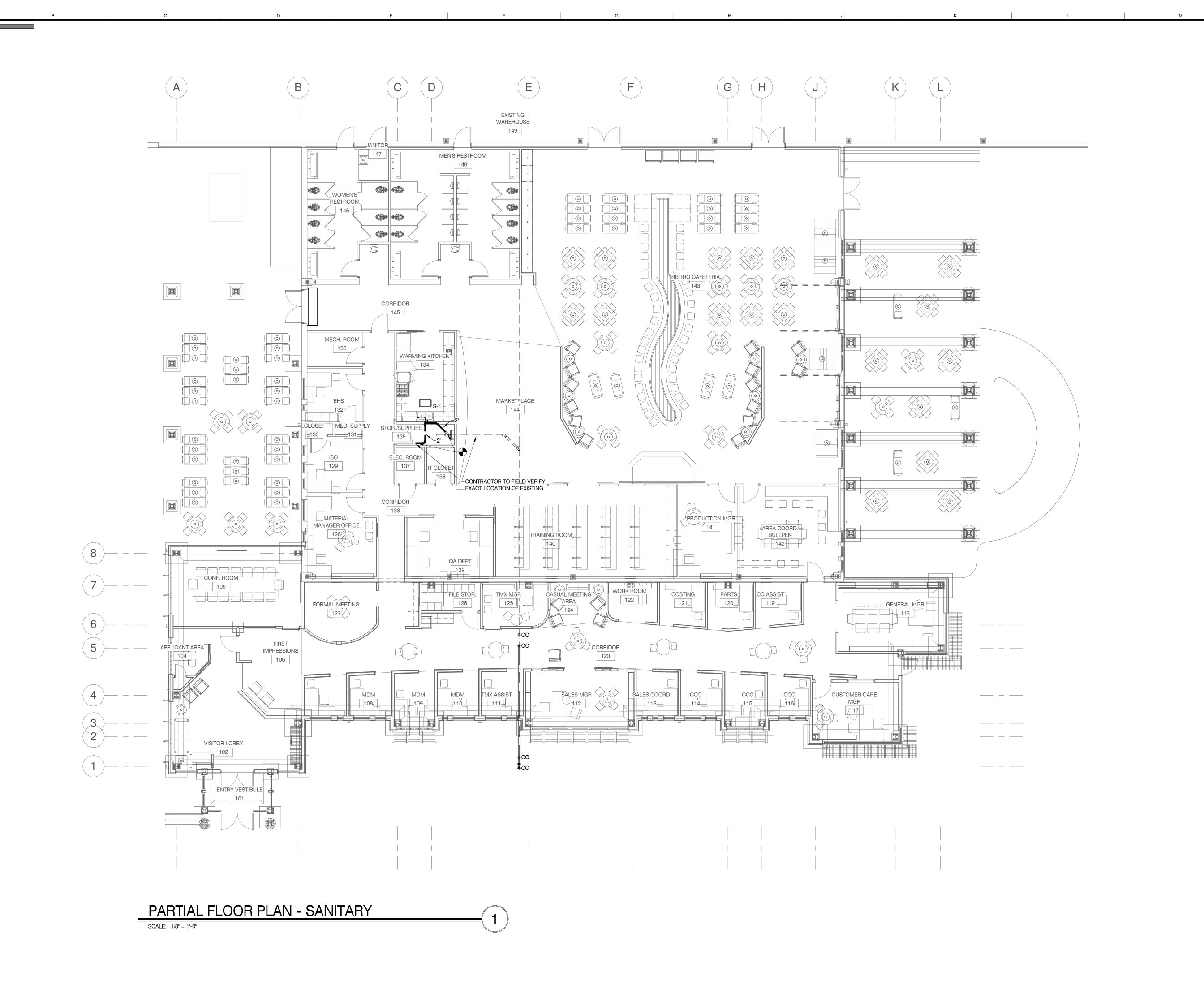
ADDISON, AL 3554

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN

DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET



PARTIAL FLOOR PLAN





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CONSULTANT

MECHANICAL ENGINEER:

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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

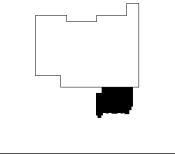
FACILITY (944)

PROJECT NO.: **ACTIVE DESIGN PHASE**

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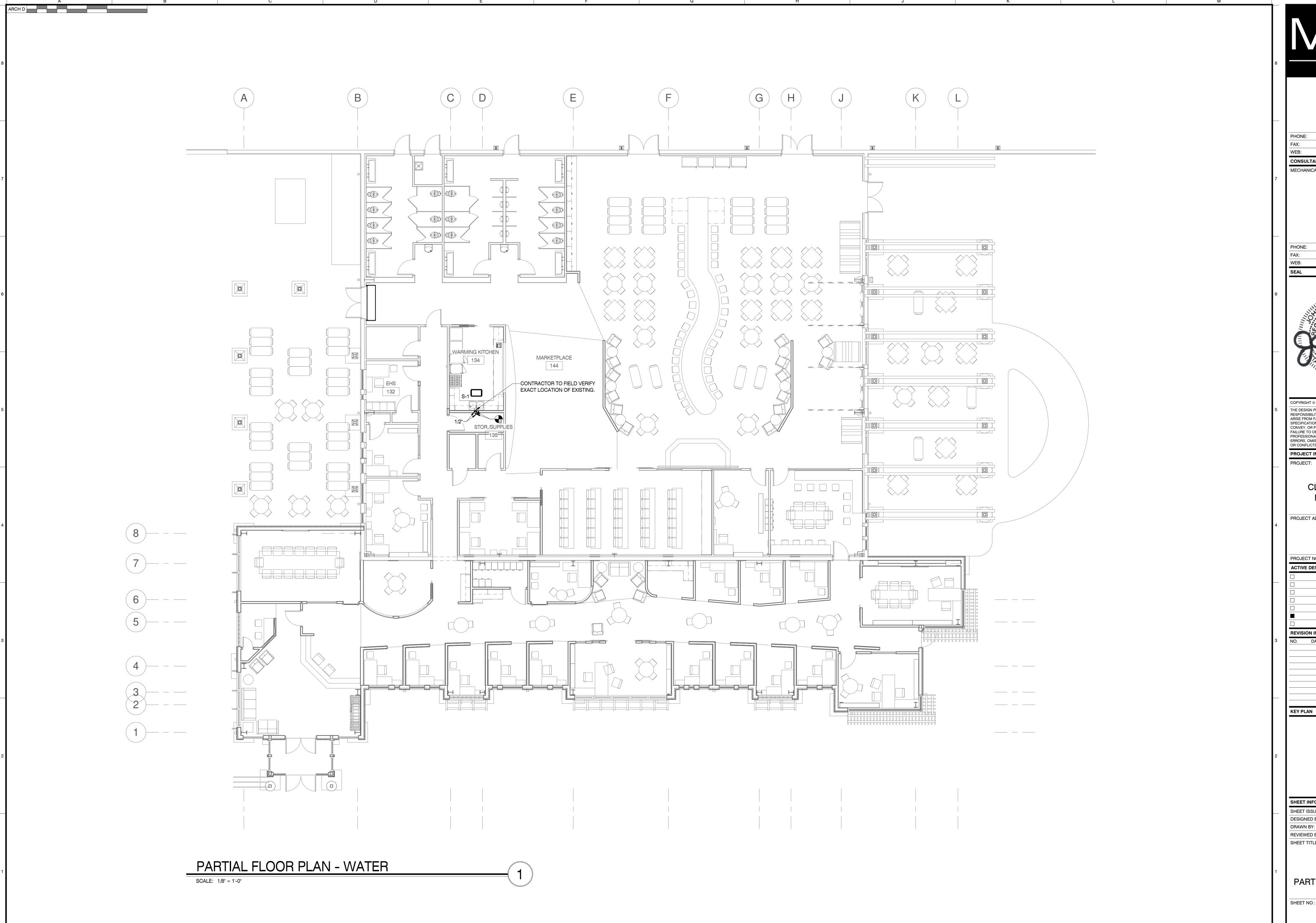
KEY PLAN



SHEET INFORMATION DESIGNED BY:

DRAWN BY: REVIEWED BY: SHEET TITLE:

PARTIAL FLOOR PLAN SANITARY





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CONSULTANT MECHANICAL ENGINEER:

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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

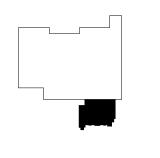
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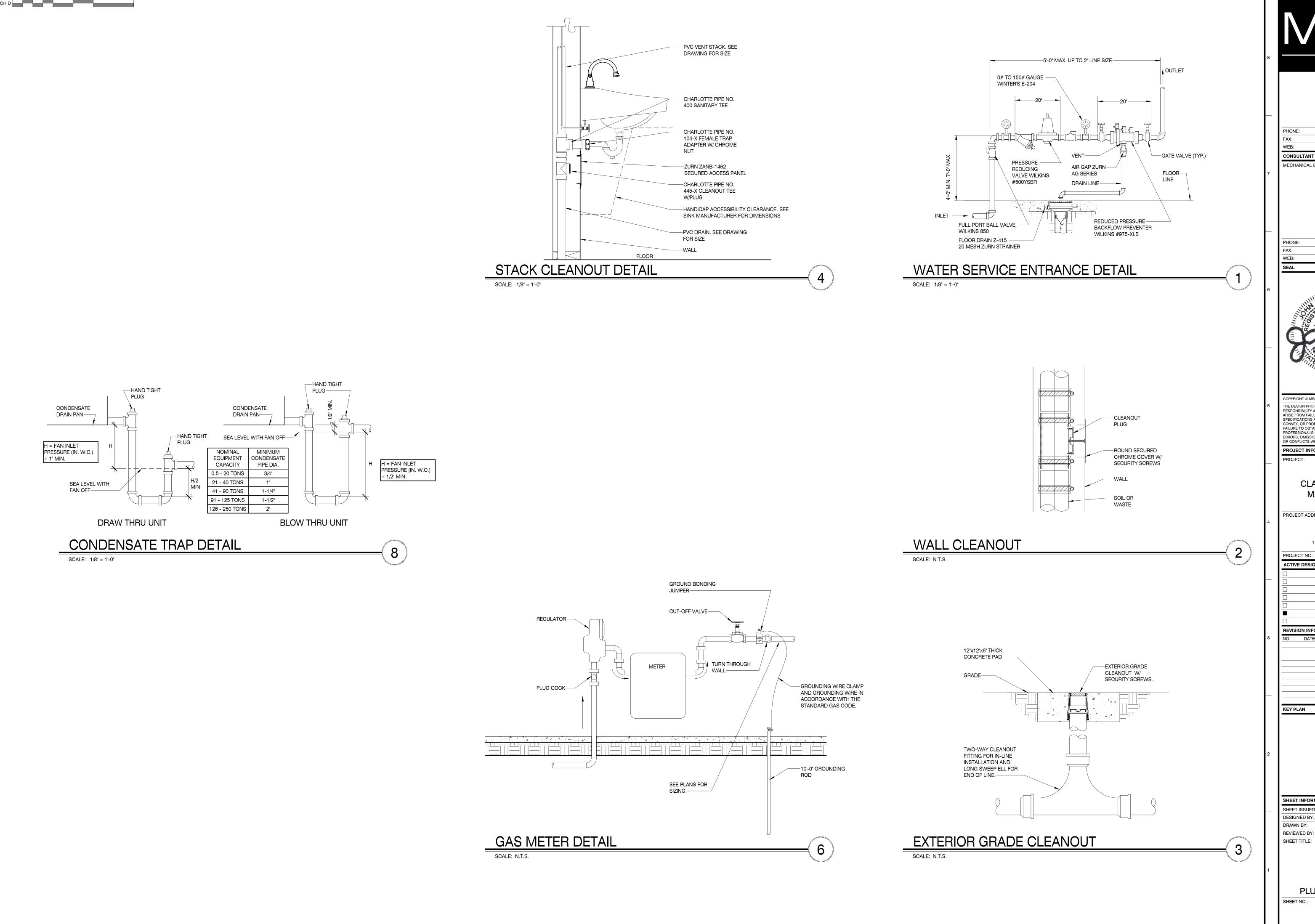
SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SET



SHEET INFORMATION DESIGNED BY: DRAWN BY: REVIEWED BY:

PARTIAL FLOOR PLAN WATER





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PROJECT INFORMATION

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH ADDISON, AL 35540

PROJECT NO.: ACTIVE DESIGN PHASE FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE **REVISION INFORMATION**

SHEET INFORMATION

08/23/2019 SHEET ISSUED: Designer Author DESIGNED BY: DRAWN BY: REVIEWED BY:

PLUMBING DETAILS

POWER PANELBOARD "LP1" MOUNT TOP 6'-0" ABOVE FINISHED FLOOR. SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED IN PANELBOARD AND PANELBOARD RATINGS.

DOUBLE SECTION POWER PANELBOARD "LP1" MOUNT TOP 6'-0" ABOVE FINISHED FLOOR. SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED IN PANELBOARD AND PANELBOARD RATINGS.

JUNCTION BOX, SIZE AND USE AS REQUIRED; COVERPLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.

4" SQUARE JUNCTION BOX.

RECESSED FOUR GANG FLOOR BOX. TWO GANGS FOR POWER AND TWO GANGS FOR DATA. PROVIDE TWO DUPLEX RECEPTACLES IN POWER GANGS, FLANGE, AND BRASS COVER PLATE. WALKER OR EQUAL.

SPECIAL VOLTAGE OUTLET

SINGLE RECEPTACLE - 125V, 20A. MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. HUBBELL OR LEVITION COMMERCIAL SPECIFICATION GRADE, TAMPER

DUPLEX RECEPTACLE - 125V, 20A MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. IG INDICATES ISOLATED GROUND TYPE WITH ORANGE COLOR. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.

DUPLEX RECEPTACLE - AF INDICATES CIRCUIT FED VIA ARC FAULT CIRCUIT BREAKER. MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. PROVIDE HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.

DUPLEX RECEPTACLE - 125V, 20A MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. GFI INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE, WP INDICATES WEATHERPROOF COVER. WPC INDICATES "CLOSED WHILE IN USE" TYPE WEATHERPROOF COVER. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.

QUADRUPLEX CONVENIENCE OUTLET - 125V, 20A MOUNT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF

MISCELLANEOUS MECHANICAL EQUIPMENT, WH=WATER HEATER, UH=UNIT HEATER

EXIT SIGN, "X" INDICATES FIXTURE TYPE, "C" INDICATES CEILING MOUNTED, "W" INDICATED WALL MOUNTED, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS. UNIT EQUIPED WITH BATTERY BACK-UP.

EMERGENCY/EXIT LIGHT COMBO UNIT, BATTERY BACK-UP POWERED. WIRE UNIT TO UNSWITCHED HOT ON CIRCUITS SHOWN.

EMERGENCY LIGHTING UNIT, BATTERY BACK-UP POWERED. WIRE UNIT TO UNSWITCHED HOT ON CIRCUITS

DOWNLIGHT. "A" IS THE FIXTURE TYPE IN THE FIXTURE SCHEDULE "a" INDICATES WHICH SWITCH CONTROLS THE FIXTURE; AND "3" INDICATES WHICH PANELBOARD CIRCUIT THE FIXTURE IS FED FROM

DOWNLIGHT WITH BUILT IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING WHEN NORMAL POWER IS NOT AVAILABLE. PROVIDE UNSWITCHED "HOT" CONDUCTOR (FROM SAME CIRCUIT FIXTURE IS USING) TO BATTERY PACK, IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHT FIXTURE WITHOUT DISCHARGING BATTERY PACK. ANY FIXTURE SYMBOL THAT HAS

SHADING INDICATES THAT FIXTURE HAS AN EMERGENCY BATTERY BACK-UP. FLUORESCENT LIGHTING FIXTURE. "A" IS THE FIXTURE TYPE IN THE FIXTURE SCHEDULE "a" INDICATES WHICH SWITCH CONTROLS THE FIXTURE; AND "3" INDICATES WHICH PANELBOARD CIRCUIT THE FIXTURE IS FED FROM. "NL"

INDICATES NIGHT LIGHT FIXTURE. CONNECT FIXTURE TO AN UNSWITCHED HOT SO THAT LIGHT STAYS ON AT ALL TIMES. FLUORESCENT LIGHTING FIXTURE WITH BUILT IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING WHEN NORMAL POWER IS NOT AVAILABLE. PROVIDE UNSWITCHED "HOT" CONDUCTOR (FROM SAME CIRCUIT FIXTURE IS USING) TO BATTERY PACK, IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHT FIXTURE WITHOUT DISCHARGING BATTERY PACK. ANY

— — — CONDUIT UNDERGROUND, 1"C MINIMUM, UNLESS NOTED OTHERWISE.

HOMERUN - LP1 INDICATES PANELBOARD 1,3,5 INDICATE CIRCUIT NUMBERS. SEE PANELBOARD DESIGNATION SCHEDULE FOR ADDITIONAL INFORMATION.

FIXTURE SYMBOL THAT HAS SHADING INDICATES THAT FIXTURE HAS AN EMERGENCY BATTERY BACK-UP.

LP1-1.3.5 MARKS INDICATE NO. OF #12 CONDUCTORS IN 3/4" CONDUIT + =PHASE + =NEUTRAL + =GROUND NO MARKS INDICATE 2 #12, #12 GROUND. WHEN TWO OR MORE CIRCUITS SHARE A COMMON NEUTRAL THE HOT CONDUCTORS MUST BE CONNECTED TO DIFFERENT PHASES IN THE PANELBOARD.

CATV OUTLET MOUNT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. EXTEND 1" EMPTY CONDUIT FROM OUTLET BOX ABOVE CEILING AND TERMINATE WITH BUSHING. PROVIDE NYLON PULL CORD IN EACH CONDUIT. PROVIDE 4" SQUARE BOX WITH SINGLE GANG DEVICE RING.

TELEPHONE/DATA OUTLET MOUNT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. EXTEND 1" EMPTY CONDUIT FROM OUTLET BOX ABOVE CEILING AND TERMINATE WITH BUSHING. PROVIDE NYLON PULL CORD IN EACH CONDUIT. PROVIDE 4" SQUARE BOX WITH SINGLE GANG DEVICE RING.

LOCAL 120V WALL SWITCH, SINGLE POLE MOUNT +48" ABOVE FINISHED FLOOR. "3" INDICATES 3-WAY, "D" INDICATES DIMMER SWITCH, "OS" INDICATES OCCUPANCY SENSOR. SPECIFICATION GRADE.

LOCAL LOW VOLTAGE "LV" WALL SWITCH, MOUNT +48" ABOVE FINISHED FLOOR. "3" INDICATES 3-WAY, "D" INDICATES DIMMER SWITCH, "OS" INDICATES OCCUPANCY SENSOR. SPECIFICATION GRADE.

POWER PACK RELAY MODULE WITH 0-10V DIMMING FOR LIGHTING CONTROL.

DUAL TECHNOLOGY OCCUPANCY SENSOR FOR LIGHTING CONTROL.

FUSED DISCONNECT SWITCH. "60" INDICATES SWITCH SIZE, "30" INDICATES FUSE SIZE. HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOURES OUTDOORS. FUSE PER NAMEPLATE OF EQUIPMENT.

└□ 30 NON-FUSED DISCONNECT SWITCH. "30" INDICATES SWITCH SIZE. HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.

MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION SAME MOUNTING HEIGHT ABOVE FINISHED FLOOR AS WALL SWITCH.

A.C. MOTOR "1/3" INDICATES HORSEPOWER.

TELEPHONE BACKBOARD 4' X 4' X 3/4" THICK FIRE RESISTIVE PLYWOOD. MOUNT TOP OF THE PLYWOOD 6'-0" ABOVE FINISHED FLOOR. INSTALL #6 SOLID COPPER GROUND TO NEAREST BUILDING STEEL. PROVIDE 1-120V, 20A, DUPLEX RECEPTACLE ON DEDICATED CIRCUIT. PAINT WITH 2 COATS OF FIRE RESISTIVE PAINT.

DUCT SMOKE DETECTOR. 1-SUPPLY AIR DUCT, 1-RETURN AIR DUCT, SUPPLIED AND INSTALLED BY FIRE ALARM CONTRACTOR. ELECTRICAL CONTRACTOR TO WIRE THE DUCT SMOKE DETECTORS TO SHUT DOWN THE HVAC UNIT IN THE EVENT EITHER THE SUPPLY OR THE RETURN DUCT SMOKE DETECTOR GOES INTO ALARM. PROVIDE REMOTE TEST STATION IN AN ACCESSIBLE LOCATION, MOUNTED BELOW UNIT AT 48" A.F.F.

FIRE ALARM PULL STATION MOUNT 48" AFF.

WALL MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL HORN STROBE DEVICE. MOUNT 80" A.F.F. 75cd INDICATES 75 CANDELAS

CEILING MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL HORN STROBE DEVICE. MOUNT 80" A.F.F. 75cd **INDICATES 75 CANDELAS**

CEILING MOUNTED FIRE ALARM SMOKE DETECTOR.

CEILING MOUNTED FIRE ALARM HEAT DETECTOR.

CEILING MOUNTED FIRE ALARM VISUAL ONLY STROBE DEVICE. MOUNT 80" A.F.F.

FIRE ALARM TAMPER SWITCH.

FACP

FIRE ALARM FLOW SWITCH.

FIRE ALARM CONTROL PANEL, MOUNT TOP 6'-0" A.F.F. PROVIDE TWO DEDICATED PHONE LINES FOR FIRE ALARM

REMOTE ANNUNCIATOR PANEL - FIRE ALARM, MOUNT TOP 6'-0" A.F.F. RAP

ELECTRICAL LEGEND CONT.

DOOR HOLDER - OPERATED THROUGH FIRE ALARM SYSTEM. DOORS REMAIN OPEN UNTIL SMOKE ISDETECTED BY SMOKE DETECTORS ADJACENT TO THE DOORS OR LOSS OF POWER.

SECURITY SYSTEM CARDREADER.

SECURITY SYSTEM KEYPAD.

SECURITY SYSTEM CAMERA.

CLOCK: CLOCK SYSTEM SHALL BE PRIMEX OR EQUAL AS FOLLOWS: TRANSMITTER PRIMEX 14000 OR EQUAL, 1 WATT MINIMUM WITH ATTACHED INTERNAL ANTENNA CLOCKS PRIMEX 14155 OR EQUAL, ANALOG, 12.5" DIAMETER, BLACK, 5 YEAR MAINTENANCE FREE BATTERY OPERATED

PA SPEAKER. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

EXTERIOR PA SPEAKER. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR

ELECTRICAL ABBREVIATIONS

Α	AMPERES	FWE	FURNISHED WITH EQUIPMENT	N.C.	NORMALLY CLOSED
AC	ALTERNATING CURRENT	G	GROUNDING CONDUCTOR	N.I.C.	NOT IN CONTRACT
AF	ARC FAULT	GFI	GROUND FAULT INTERRUPTER	N.O.	NORMALLY OPEN
A.F.F.	ABOVE FINISHED FLOOR	HP	HORSEPOWER	NEC	NATIONAL ELECTRIC CODE
AWG	AMERICAN WIRE GAUGE	JB	JUNCTION BOX	NEMA	NATIONAL ELECTRICAL
CKT	CIRCUIT	KCM	THOUSANDS OF CIRCULAR MILS	DU	MANUFACTURERS ASSOCIATION
DC	DIRECT CURRENT	KV	KILOVOLTS	PH TYP.	PHASE TYPICAL
DISC	DISCONNECT	KVA	KILOVOLT-AMPERES	1 1 F. V	VOLT
DWG.	DRAWING	KW	KILOWATTS	W	WATT
ELEC.	ELECTRICAL/ELECTRIC	LTG	LIGHTING	WP	WEATHERPROOF
EWC	ELECTRIC WATER COOLER	N	NEUTRAL CONDUCTOR	VVF	WEATHENFROOF
LVVO	LLLOTNIO WATER GOOLER	IN	NEOTIAL CONDUCTOR	WPC	"CLOSED WHILE IN USE" TYPE WEATHERPROOF COVER

FIRE ALARM SYSTEM NOTES

 $^{1\cdot}$ A) $\,$ FURNISH AND INSTALL A COMPLETE ADDRESSABLE FIRE DETECTION AND EVACUATION SYSTEM. THE ENTIRE INSTALLATION SHALL CONFORM TO THE APPLICABLE SECTIONS OF NFPA-72, NATIONAL FIRE ALARM CODE, NFPA-101 LIFE SAFETY CODE. N.E.C. ARTICLE 760. THE AMERICANS WITH DISABILITIES ACT, AND LOCAL AUTHORITIES HAVING JURISDICTION. SUBSTITUTES FOR APPROVAL MUST MEET THE COMPLETE FUNCTIONALITY REQUIREMENTS AS SET FORTH IN THESE SPECIFICATIONS.

B) DUE TO THE NATURE OF FIRE MARSHALL ACTIONS, INCLUDE AN ALLOWANCE OF AN ADDITIONAL 10% OF THE ORIGINAL JOB A/V DEVICE QUANTITIES TO BE INSTALLED AT THE DISCRETION OF THE LOCAL FIRE MARSHALL.

THE FIRE ALARM EQUIPMENT SUPPLIER SHALL BE AN ALARM SYSTEMS CONTRACTOR LICENSED BY THE STATE OF TENNESSEE AND SHALL INCLUDE A COPY OF THE LICENSE IN THE EQUIPMENT SUBMISSIONS. THE CONTRACTOR SHALL HAVE NICET CERTIFIED EMPLOYEES FOR THE SALE, SUPERVISION AND FINAL TESTING OF THE EQUIPMENT AND SHALL INCLUDE A COPY OF THE CERTIFICATE OF AT LEAST ONE EMPLOYEE IN THE EQUIPMENT SUBMISSIONS

THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE NEED FOR ADDITIONAL CABINETS BATTERIES. POWER SUPPLIES, PROGRAMMING, AND ANY ADDITIONAL HARDWARE OR SOFTWARE FOR A COMPLETE INSTALLATION AND EXPANSION. INCLUDE ALL COST IN ORIGINAL BID.

4. SUBMISSIONS:

A) COMPLETE DESCRIPTIVE DATA INCLUDING U.L. LISTING FOR ALL COMPONENTS

B) COMPLETE CAD DRAWINGS OF THE PROPOSED SYSTEM SHOWING CONDUIT LAYOUT, WIRE COUNT AND DEVICE LOCATIONS.

ALL FIRE ALARM SYSTEM WIRING SHALL REMAIN SEPARATE FROM OTHER BUILDING SYSTEMS WIRING AND SHALL BE IN CONDUIT. ALL JUNCTION BOXES SHALL BE SPRAYED RED AND LABELED "FIRE ALARM". WIRING COLOR SHALL BE MAINTAINED THROUGHOUT THE INSTALLATION.

TESTING: THE COMPLETED SYSTEM SHALL BE FULLY TESTED BY THE FIRE ALARM CONTRACTOR AND THE MANUFACTURER'S NICET CERTIFIED TECHNICAL REPRESENTATIVE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. UPON COMPLETION OF A SUCCESSFUL TEST, THE FIRE ALARM CONTRACTOR SHALL VERIFY IN WRITING TO THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR.

THE FOLLOWING TEST SHALL BE PREFORMED BY THE FIRE ALARM MANUFACTURER'S AUTHORIZED REPRESENTATIVE. EACH AND EVERY DEVICE SHALL BE TESTED FOR IT'S INTENDED FUNCTION. VERIFY THAT EACH DEVICE IS LOCATED IN ITS APPROPRIATE LOCATION. WRITTEN VERIFICATION OF THIS TEST SHALL BE PROVIDED TO THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR. THIS TEST SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 72.

WARRANTY:

THE EQUIPMENT AND WIRING SHALL BE WARRANTED TO BE FREE FROM ELECTRICAL AND MECHANICAL DEFECTS FOR A PERIOD OF ONE (1) YEAR COMMENCING WITH START-UP AND OWNERS BENEFICIAL USE OF THE COMPLETED SYSTEM. WARRANTY SHALL INCLUDE ALL LABOR/TRAVEL TIME AND PARTS.

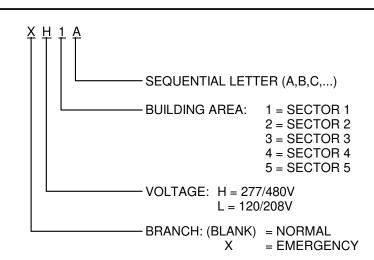
MONITORING:

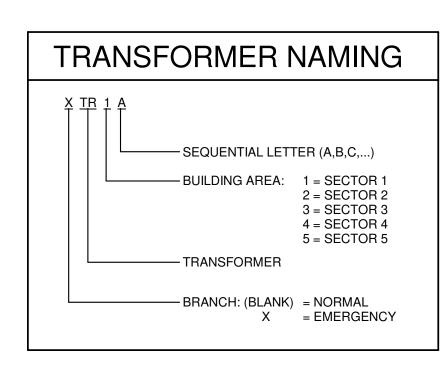
INCLUDE IN THE BID THE COST OF ONE YEAR OF MONITORING OF THE FIRE ALARM SYSTEM BY A U.L. APPROVED MONITORING COMPANY.

CERTIFICATION:

PROVIDE U.L. THIRD PARTY CERTIFICATION OF ENTIRE INSTALLED SYSTEM, PER AUTHORITY HAVING JURISDICTION'S CODE REQUIREMENTS.

PANELBOARD NAMING





GENERAL ELECTRICAL NOTES

ELECTRICAL DRAWINGS ARE PARTIALLY DIAGRAMMATIC. IN THE EVENT THAT THERE IS A DISCREPANCY OR THERE ARE ITEMS THAT ARE UNCLEAR. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND HVAC DRAWINGS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL AND ARCHITECTURAL DETAILS. LOCATIONS OF DUCTS, PIPES AND STRUCTURAL STEEL INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL STEEL OR OTHER SYSTEMS. LOCATE LIGHTING SYMMETRICALLY IN PROPER RELATION TO FINISHED AREAS EXCEPT WHERE DIMENSIONED ON THE DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS.

SCOPE: FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL WORK INDICATED ON DRAWINGS, AS SPECIFIED HEREIN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL STATE, AND CITY CODES.

PROVIDE ADDITIONAL SUPPORTS FOR SWITCHES, PANELBOARDS, RACEWAYS, TRANSFORMERS, CABLE TRAYS AND OTHER ELECTRICAL EQUIPMENT WHERE THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING. ALL OTHER SUPPORTS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

A NUMERAL BESIDE A BRANCH CIRCUIT OUTLET ON WIRING PLANS INDICATES PANELBOARD BRANCH CIRCUIT CONNECTION. A LOWER CASE LETTER BESIDE AN OUTLET INDICATES THE SWITCH LEG CONNECTION WHERE OUTLETS ARE LOCALLY SWITCHED.

SYMBOLS IN THE LEGENDS ARE APPLICABLE GENERALLY. FOR EXACT REQUIREMENTS REFER TO THE SCHEDULES, LAYOUTS, DETAILS AND SPECIFICATIONS SINCE THE APPEARANCE OF A PARTICULAR SYMBOL IN THE LEGEND DOES NOT NECESSARILY IMPLY THAT THE ITEM IS INCLUDED IN THE CONTRACT.

MOUNT GROUPED DEVICES IN A SINGLE CONTINUOUS GANG BOX. USE PARTITIONS WHERE VOLTAGE BETWEEN EXPOSED LIVE PARTS OF ADJACENT SWITCHES MAY EXCEED 300 VOLTS.

VERIFY CEILING SUSPENSION SYSTEMS IN THE VARIOUS AREAS AND PROVIDE THE PROPER MOUNTING ACCESSORIES, TRIMS, ETC. TO SUIT THE PARTICULAR AREA.

PROVIDE SEAL FITTINGS IN CONDUITS THAT ENTER CONDITIONED AREA FROM NON-CONDITIONED

ANY CONDUIT AND BOXES FOR HVAC CONTROL WIRING IS INCLUDED IN THIS SCOPE OF WORK. SEE MECHANICAL PLANS FOR LOCATIONS. TYPE AND QUANTITY OF CONTROL DEVICES.

ALL CONDUCTORS ARE COPPER. THHN/THWN 600 VOLT INSULATION. USE SOLID CONDUCTORS FOR WIRE SIZES #10 AWG AND SMALLER. USE STRANDED FOR WIRE NO. 8 AWG AND LARGER. MINIMUM WIRE SIZE IS #12 AWG. CONDUIT IS EMT (1/2" MINIMUM) WITH COMPRESSION FITTINGS UNLESS OTHERWISE NOTED. NO "NM" & "MC" CABLE ALLOWED. MULTIWIRE BRANCH CIRCUITS SHALL NOT BE USED. INSTALL A SEPARATE, GROUNDED CONDUCTOR (NEUTRAL) FOR EACH CIRCUIT.

MAINTENANCE MANUALS AND INSTRUCTIONS: FURNISH THREE (3) SETS OF OPERATING INSTRUCTIONS FOR ANY ELECTRICAL EQUIPMENT INSTALLED.

ALL ELECTRICAL EQUIPMENT AND INSTALLATION WORK SHALL HAVE A ONE YEAR (1) WARRANTY. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP SHALL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR THE PERIOD

ANY CONDUIT AND/OR CABLE TRAY PENETRATIONS THROUGH ANY FIRE WALL OR FLOOR SHALL BE FIRESTOPPED EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL OR FLOOR THAT THEY PASS THROUGH. USE ONLY UL APPROVED METHODS AND ASSEMBLIES. RECEPTACLES LOCATED ON OPPOSITE SIDES OF A FIRE BARRIER SHALL BE SEPERATED BY A MINIMUM HORIZONTAL DISTANCE OF 2'0".

PERMITS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, FEES INSPECTIONS, AND POWER COMPANY AID TO COMPLETE WORK SHOWN. INCLUDE ALL POWER COMPANY COSTS IN BID.

CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR ALL BRANCH CIRCUIT

CONDUCTORS THROUGHOUT THE PROJECT AS FOLLOWS: 120/208 VOLT 480/277 VOLT BLACK BROWN ORANGE **BLUE** YELLOW WHITE NATURAL GREY

GREEN

OF THE WARRANTY.

GREEN GROUND CUTTING AND PATCHING: PROVIDE ALL CUTTING REQUIRED TO DO THE WORK. DO NOT CUT ANY STRUCTURAL ELEMENT WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND MATCHING APPEARANCE OF EXISTING CONSTRUCTION. DO NOT CUT ANY STRUCTURAL ELEMENT WITHOUT

GROUNDING: AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 250. INSTALL A SEPARATE GROUNDING CONDUCTOR IN SAME CONDUIT AS PHASE AND NEUTRAL CONDUCTOR FOR ALL BRANCHES AND FEEDERS UNLESS OTHERWISE NOTED.

WIRING DEVICES AND PLATES: SWITCHES SHALL BE HUBBELL OR LEVITON 20A 125VOLT AC COMMERCIAL SPECIFICATION GRADE. COLOR GRAY UNLESS NOTED OTHERWISE. USE STEEL COVER PLATES IN UNFINISHED AREAS AND MATCHING NYLON COVER PLATES IN FINISHED AREAS. ORANGE COLORED RECEPTACLES SHALL BE USED FOR THE ISOLATED GROUND "IG" RECEPTACLES.

INDOORS AND NEMA TYPE 3R FOR OUTDOORS. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL WHERE SHOWN OR REQUIRED BY CODE.

SAFETY SWITCHES: USE HEAVY DUTY TYPE FUSIBLE OR NON-FUSIBLE AS REQUIRED. NEMA TYPE 1

FUSES: USE DUAL ELEMENT, CURRENT LIMITING, TIME DELAY TYPE OR AS SPECIFIED BY EQUIPMENT

PANELBOARDS: USE PANELBOARDS WITH BOLT ON TYPE BREAKERS ONLY. PANELBOARDS SHALL HAVE SEPARATE NEUTRAL AND GROUND BUSSES. PANELBOARDS SHALL BE 20" WIDE EQUIVALENT TO SQUARE D "NQOD" OR I LINE UNLESS OTHERWISE SPECIFIED. PROVIDE TYPED DIRECTORY CARDS FOR EACH PANELBOARD INSTALLED.

22. COORDINATION: COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND LOCAL UTILITY COMPANY, COORDINATE METERING REQUIREMENTS WITH LOCAL ELECTRICAL UTILITY COMPANY.

EQUIPMENT: CONNECT ALL ELECTRICALLY OPERATED EQUIPMENT INCLUDING HVAC. USE NEMA 3R DEVICES OUTDOORS. VERIFY LOADS AND LOCATIONS OF EQUIPMENT BEFORE CONNECTION. SIZE BREAKERS, DISCONNECTS, AND FUSES ACCORDING TO THE EQUIPMENT NAMEPLATE. SIZE WIRE ACCORDING TO THE NEC. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVEIWING THE EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND OTHER TRADES AND SHALL BE RESPONSIBLE FOR MODIFYING THE CONNECTIONS WIRE. DISCONNECTS, BREAKERS, ETC. SHOWN ON THE DRAWINGS IN ORDER TO MAKE A COMPLETE INSTALLATION AND TO SATISFY THE MANUFACTURER'S REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS TO COMPLETE

RECORD DRAWINGS: MAINTAIN A RECORD SET OF ALL CHANGES DURING CONSTRUCTION. RECORD CHANGES ON A CLEAN SET OF CONTRACT CONSTRUCTION DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.

IDENTIFICATION: IDENTIFY ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT INSTALLED ON THE PROJECT. EXAMPLES INCLUDE PANELBOARDS, MOTOR STARTERS, DISCONNECTS, AND CONTROL PANELS. IDENTIFY WITH PERMANENT PLASTIC NAMEPLATES.

SUBMITTALS: UNLESS INSTRUCTED OTHERWISE THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FOUR (4) SETS OF SHOP DRAWINGS ON MAJOR PIECES OF ELECTRICAL EQUIPMENT. SUCH EQUIPMENT INCLUDES PANELBOARDS, LIGHTING, SWITCHGEAR, SECONDARY SYSTEMS, MOTOR CONTROLS, ETC. APPROVAL FROM THE ENGINEER OF EQUIPMENT MUST BE OBTAINED BEFORE PURCAHSE AND INSTALLATION OF ELECTRICAL EQUIPMENT.

TEMPORARY POWER AND LIGHTING: ARRANGE FOR TEMPORARY ELECTRIC SERVICE AS REQUIRED FOR THE ENTIRE PROJECT DURING CONSTRUCTION. PROVIDE A MINIMUM OF ONE DUPLEX GFCI OUTLET FOR EACH 500 SQUARE FEET OF FLOOR AREA. ARRANGE FOR PERMANENT ELECTRICAL SERVICE AND FOR ORDERLY TRANSFER BETWEEN TEMPORARY AND PERMANENT ELECTRICAL SERVICES. PROVIDE GFCI PROTECTION AND LAMP GUARDS AS REQUIRED BY THE NEC.

MINIMUM TEMPORARY LIGHTING LEVELS:

ONE LAMP HOLDER FOR EACH 150 SQUARE FEET OF FLOOR SPACE. MINIMUM ONE PER ROOM.

ONE LAMP HOLDER AT EACH STAIR LANDING AND FLOOR.

ONE LAMP HOLDER AT 20" CENTERS IN INTERIOR CORRIDORS. MINIMUM ONE PER CORRIDOR.

ARCHITECT:

MBI COMPANIES INC 299 N. WEISGARBER ROAD KNOXVILLE, TN 3791 PHONE: (865) 584-099 (865) 584-52 mbicompanies.co

CONSULTANT ELECTRICAL ENGINEER:

> MBI COMPANIES INC 299 N. WEISGARBER ROAD

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PROJECT INFORMATION

CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

ADDISON, AL 3554

CONSTRUCTION DOCUMENTS

PROJECT NO.: 180789.06 **ACTIVE DESIGN PHASE**

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN CONSTRUCTION BIDDING

AS-BUILT RECORD SE REVISION INFORMATION

KEY PLAN

SHEET TITLE:

SHEET NO .:

SHEET INFORMATION SHEET ISSUED 09/05/201 DESIGNED BY DRAWN BY: REVIEWED BY

ELECTRICAL LEGEND AND GENERAL NOTES

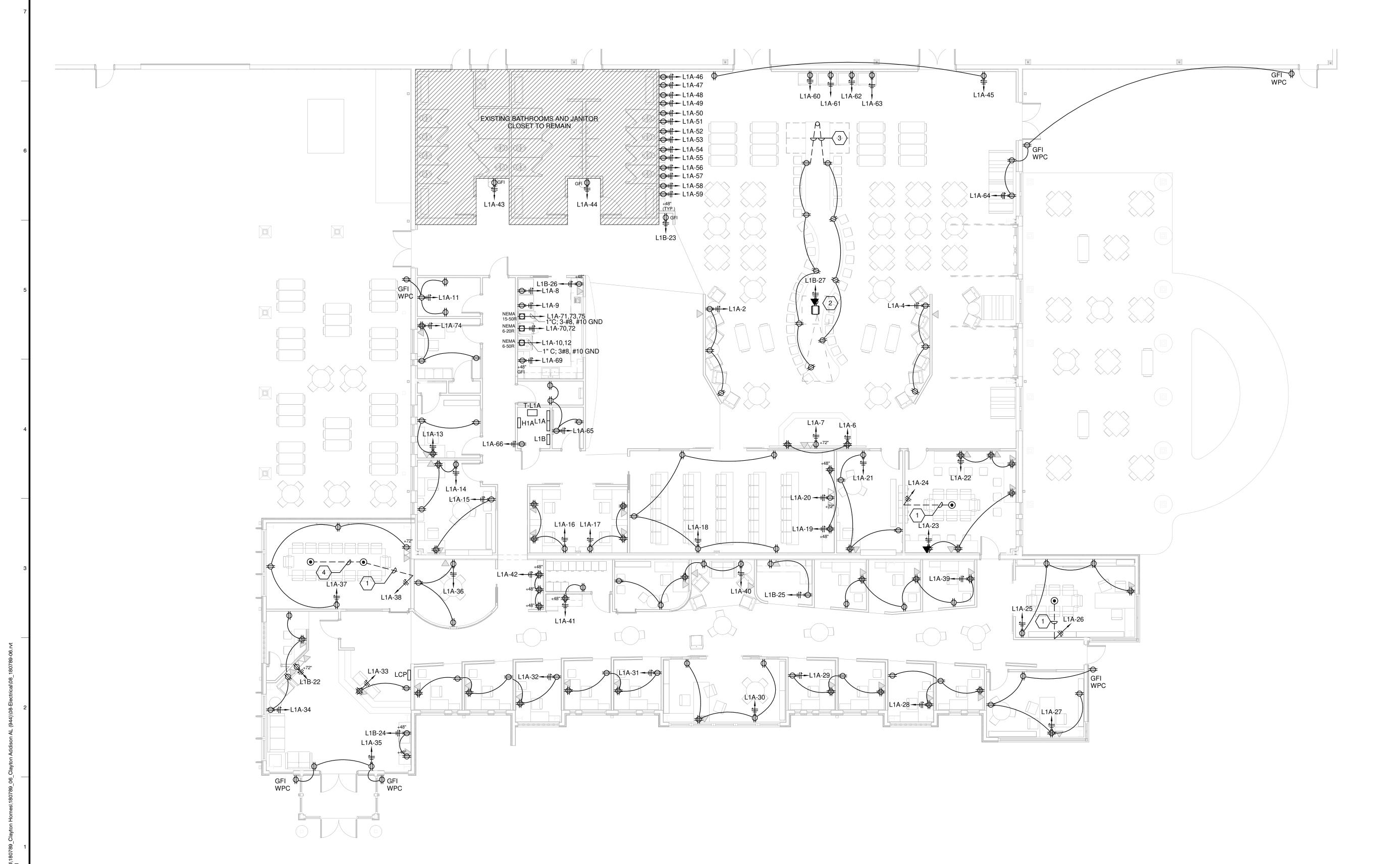
GENERAL SHEET NOTES

SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.

OKEYED SHEET NOTES

- TWO -1" CONDUITS RUN UNDER FLOOR TO NEAREST WALL AND STUBBED ABOVE CEILING. ONE CONDUIT FOR POWER AND ONE CONDUIT FOR DATA. POWER FOR OVERHEAD PROJECTOR. PROJECTOR PROVIDED BY OWNER.
- COORDINATE WITH OWNER FOR FINAL PLACEMENT. . CONDUIT RUN UNDER TABLE TO NEAREST COLUMN AND STUBBED AT CEILING.

1. TWO -1" CONDUITS WITH PULL STRING RUN UNDER TABLE TO STUB POINT. ONE CONDUIT FOR DATA AND ONE FOR POWER.



ARCHITECT:

MBI COMPANIES INC. 100 COLONIAL CENTER SUITE 230 LAKE MARY, FL 32746 (407) 585-0330

IB26000665

PHONE: (407) 585-0336 mbicompanies.com ARCHITECTURE NO.: AA26000828 INTERIORS NO.:

CONSULTANT ELECTRICAL ENGINEER:

CHARLES H. POWELL JR.

MBI COMPANIES 299 N. WEISGARBER RD. KNOXVILLE, TN. 37919 PHONE: (865) 584-0999

(865) 584-5213 mbicompanies.cor



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PROJECT INFORMATION

CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

ADDISON, AL 3554

PROJECT NO.:

FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGI DESIGN DEVELOPMEN

CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SE

KEY PLAN

SHEET TITLE:

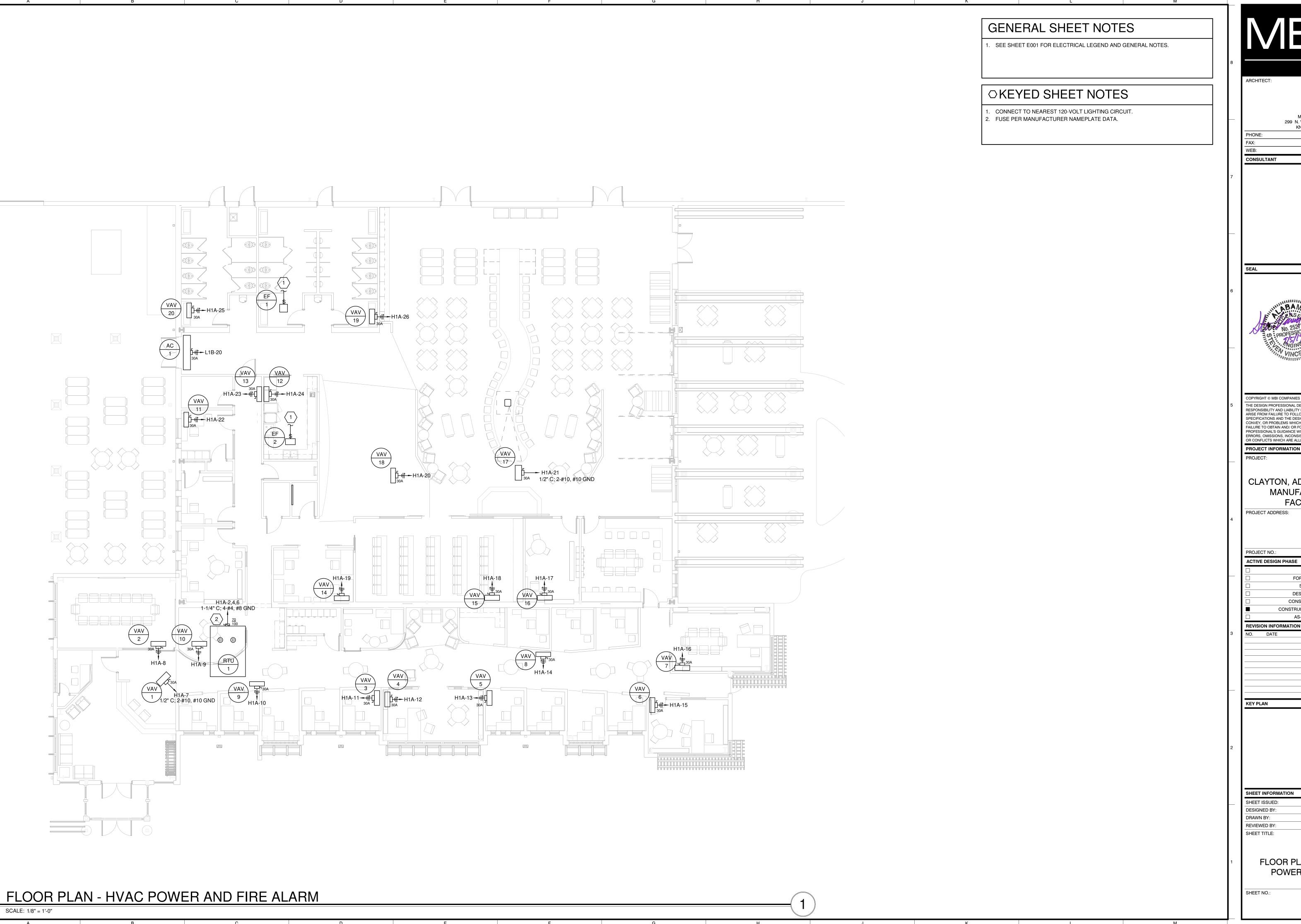
DESIGNED BY: REVIEWED BY:

FLOOR PLAN - POWER

E101

FLOOR PLAN - POWER

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





MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 (865) 584-0999 (865) 584-5213

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CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

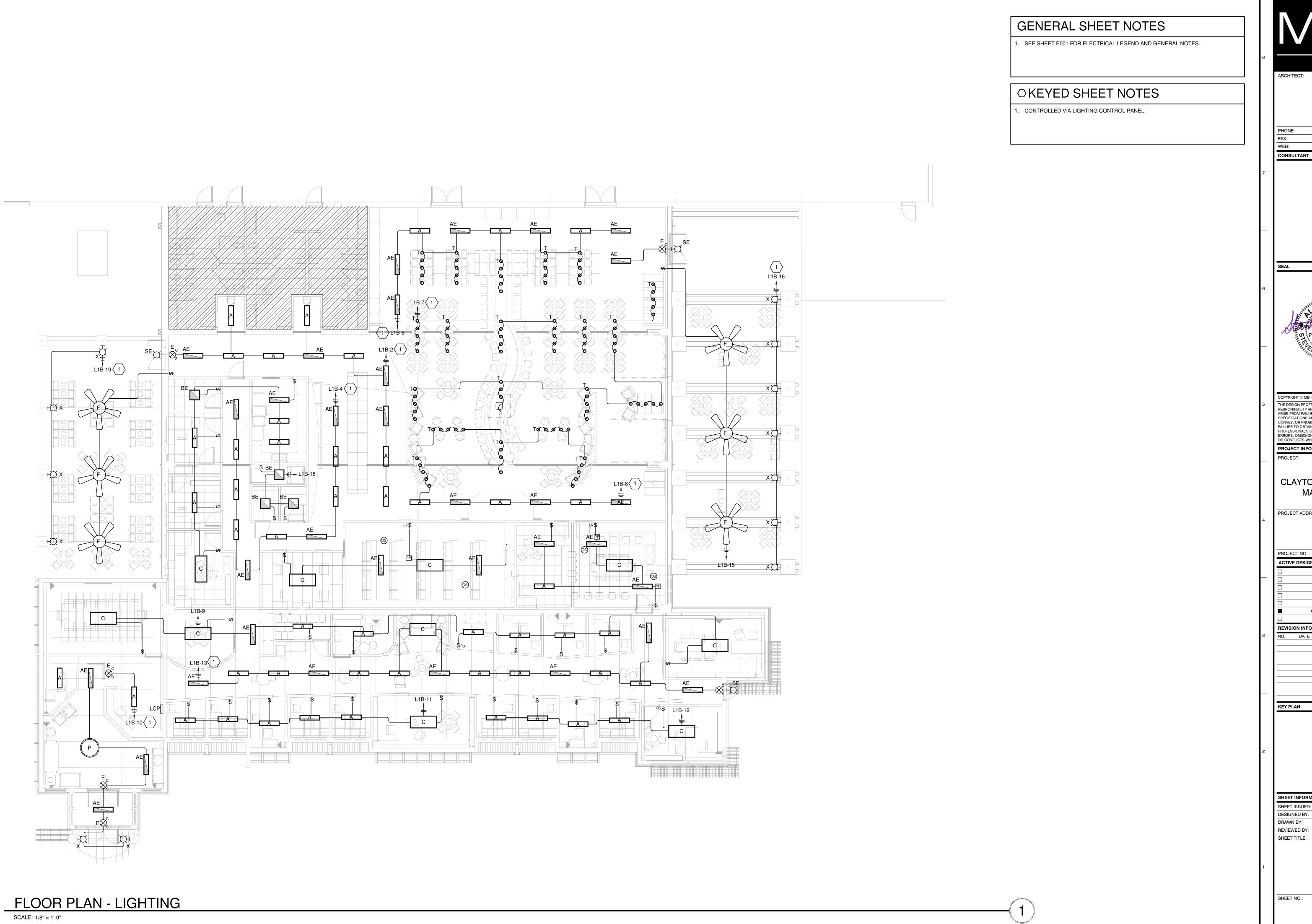
17921 CR 41 ADDISON, AL 35540

FOR REVIEW ONLY FOR PERMITTING ONLY

SCHEMATIC DESIGI DESIGN DEVELOPMEN CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SE

FLOOR PLAN - HVAC POWER AND FIRE



ARCHITECT:

MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 (865) 584-0999 (865) 584-5213

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PROJECT INFORMATION

CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 CR 41 ADDISON, AL 35540

FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET

SHEET INFORMATION

DESIGNED BY: REVIEWED BY:

> FLOOR PLAN LIGHTING

SHEET NO.:

GENERAL SHEET NOTES SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES. 2. SEE SHEET E102 FOR ADDITIONAL FIRE ALARM DEVICES. ARCHITECT: OKEYED SHEET NOTES TWO -1" CONDUITS RUN UNDER FLOOR TO NEAREST WALL AND STUBBED MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 ABOVE CEILING. ONE CONDUIT FOR POWER AND ONE CONDUIT FOR DATA. 2. DATA OUTLET FOR OVERHEAD PROJECTOR. PROJECTOR PROVIDED BY OWNER. COORDINATE WITH OWNER FOR FINAL PLACEMENT. PHONE: 3. TWO -1" CONDUITS WITH PULL STRING RUN UNDER TABLE TO STUB POINT. ONE CONDUIT FOR DATA AND ONE FOR POWER. CONSULTANT 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 CLAYTON, ADDISON AL MANUFACTURING PROJECT ADDRESS: PROJECT NO.: REVIEWED BY:

FACILITY (944)

(865) 584-0999 (865) 584-5213

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17921 CR 41 ADDISON, AL 35540 FOR REVIEW ONLY

FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SET

FLOOR PLAN COMMUNICATIONS AND FIRE ALARM

E301

FLOOR PLAN - COMMUNICATION AND FIRE ALARM

FACP + + L1B-41

+72" \ \times \quad \qq \quad \quad

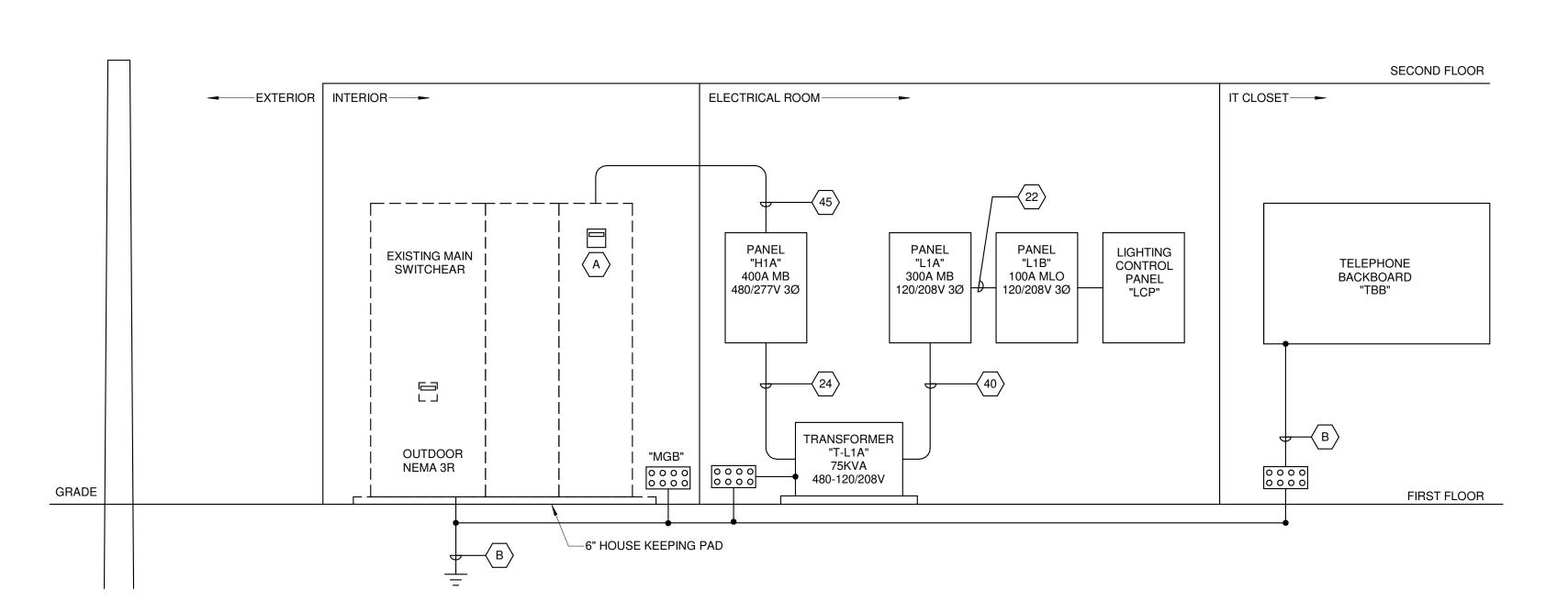
SCALE: 1/8" = 1'-0"

(#)	WIRE/BKR MAX AMPS	CONDUIT AND WIRE DESCRIPTION	(#)	WIRE/BKR MAX AMPS	CONDUIT AND WIRE DESCRIPTION
1	20	2#12, 3/4"C	32	200	2#3/0, 1#6G,2"C
2	20	2#12, 1#12G, 3/4"C	33	200	3#3/0, 1#6G, 2"C
3	20	3#12,1#12G, 3/4"C	34	200	4#3/0, 1#6G, 2 1/2"C
4	20	4#12, 1#12G, 3/4"C	35	230	2#4/0, 1#4G,2"C
5	30	2#10, 1#10G, 3/4"C	36	230	5#4/0, 1#4G, 3"C
6	30	3#10, 1#10G, 3/4"C	37	230	4#4/0, 1#4G,2-1/2"C
7	30	4#10, 1#10G, 3/4"C	38	255	3#250KCM,1#4G, 2-1/2"C
8	40	2#8, 1#10G, 3/4"C	39	255	4#250KCM, 1#4G,2-1/2"C
9	40	3#8, 1#10G, 3/4"C	40	285	3#300KCM, 1#4G, 3"C
10	40	4#8, 1#10G, 3/4"C	41	285	4#300KCM,1#4G,3"C
11	55	2#6, 1#10G, 3/4"C	42	310	3#350KCM,1#3G, 2-1/2"C
12	55	3#6, 1#10G, 3/4"C	43	310	4#350KCM, 1#3G, 3"C
13	55	4#6, 1#10G, 1"C	44	380	3#500KCM, 1#3G, 3"C
14	70	2#4, 1#8G, 1"C	45	380	4#500KCM,1#3G,3-1/2"C
15	70	3#4, 1#8G, 1-1/4"C	46	420	4#600KCM,1#3G.,4"C
16	70	4#4, 1#8G, 1-1/4"C	47	510	2 SETS,EA:4#250KCM,1#1G,2-1/2"C
17	85	2#3, 1#8G, 1-1/4"C	48	620	2 SETS,EA: 4#350KCM,1#1/0G,3"C
18	85	3#3, 1#8G, 1-1/4"C	49	760	2 SETS,EA: 4#500KCM, 1#1/0G,3-1/2"C
19	85	4#3, 1#8G, 1-1/4"C	50	840	2 SETS, EA: 4#600KCM,1#1/0G, 4"C
20	95	2#2, 1#8G, 1-1/4"C	51	840	2 SETS, EA: 5#600KCM,1#1/0G, 4"C
21	95	3#2, 1#8G, 1-1/4"C	52	1005	3 SETS, EA: 4#400KCM,1#3/0G,3"C
22	95	4#2, 1#8G, 1-1/4"C	53	1140	3 SETS,EA:4#500KCM,1#3/0G, 4"C
23	130	2#1, 1#6G, 1-1/4"C	54	1240	4 SETS,EA: 4#350KCM,1#4/0G,3"C
24	130	3#1, 1#6G, 1-1/4"C	55	1675	5 SETS,EA:4#400KCM,1#250KCMG,3"C
25	130	4#1, 1#6G, 1-1/2"C	56	1900	5 SETS,EA:4#500KCM,1#250KCMG,3-1/2"C
26	150	2#1/0, 1#6G, 1-1/2"C	57	2010	6 SETS,EA:4#400KCM, 4"C; AND 2 - SPARE 4"C
27	150	3#1/0, 1#6G,1-1/2"C	58	2280	6 SETS,EA:4#500KCM,1#350KCMG,3-1/2"C
28	150	4#1/0, 1#6G, 2"C	59	2660	7 SETS,EA:4#500KCM, 4"C AND 3 - SPARE 4"C
29	175	2#2/0, 1#6G, 1-1/2"C	60	3040	8 SETS, EA:4#500KCM,1#500KCMG,3-1/2"C
30	175	5#2/0, 1#6G, 2-1/ 2"C	61	4180	11 SETS, EA:4#500KCM,1#600KCMG,3-1/2"C
31	175	4#2/0, 1#6G, 2"C			

CONDUIT SIZE BASED ON THHN/THWN 40% FILL CALCULATION WIRE SIZE BASED ON NEC 110-14C WITH 60°C AMPACITY TABLES FOR 20A THRU 100 AMPS AND 75°C AMPACITY TABLES FOR VALUES > 100 AMPS. ALL CONDUCTORS IN THIS SCHEDULE ARE COPPER (Cu)

NOTE: IN GENERAL. THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT BREAKERS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 WIRE U.O.N. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE BREAKER AND WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.

UNLESS NOTED OTHERWISE ALL 20A., 1P. BREAKERS TO UTILIZE #12 CONDUCTORS. EXCEPT WHERE BRANCH CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTORS TO BE #10 AND OVER 175 FEET LINEAR FEET CONDUCTORS TO BE #8.



A NEW 400 A BREAKER, 65,000 AIC.

B #6 COPPER

RISER DIAGRAM

SCALE: 12" = 1'-0"

LIGHTING FIXTURE SCHEDULE COMMENTS TYPE LAMP TYPE LAMP NO. WATTS VOLTAGE MOUNTING HEIGHT MANUFACTURER MODEL SUSPENDED 9'0" VMM9-LLP-4FT-MSL4-80CRI-35K-ID1100LM 120 F-60/40-DARK-ZT-120-SCT-F1/24A-C110 VMM9-LLP-4FT-MSL4-80CRI-35K-ID1100LM BATTERY BACK-UP LED 120 SUSPENDED 9'0" PEERLESS F-60/40-DARK-ZT-120-SCT--1E10WLCP-F1/ 24A-C110 LED 32 | 120 | RECESSED | CEILING | LITHONIA 2BLT2-40L-ADSM-EZ1-LP835-EL7L BATTERY BACK-UP 120 SUSPENDED 9' 0" LED CANVIS-HZM-63LONG-29WIDE-18HIGH-PM WINONA -OLEDA1-4300LM-35K-MVOLT-DIMR LED 120 | SURFACE | CEILING | LITHONIA LHQM-S-W-3-R-H0R0 EXIT SIGN W/BATTERY BACK-UP LED 120 SUSPENDED 9' 0" BIG ASS FANS FR150A-U0-F1-0-3H03-02-0258-258P010 | FINAL FINISH TO BE SPECIFIED B OWNER/ARCHITECT LED 120 SUSPENDED 9' 0" WINONA WFP61603-36DIA-POLDI-LDP1A-40K-MVOL T-ID-OAE-BA LED WSR-LED-P1-40K-SR2-MVOLT-E10WH-DDB BATTERY BACK-UP 120 WALL 9' 0" LITHONIA XD DA202-FR-SN-D6-R STONE NOTE 5 LED 120 | SUSPENDED | 9' 0" OLLWU-LED-P1-40K-MVOLT-DDB LED 14 120 WALL 9' 0" LITHONIA X

NOTES:

1. FURNISH AND INSTALL LAMPS FOR ALL FIXTURES.

2. VERIFY ALL CEILING TYPES BEFORE STARTING ANY WORK. SEE ARCHITECTS REFLECTED CEILING PLAN FOR CEILING TYPES.

3. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF ALL LIGHTING FIXTURES. 4. PROVIDE ALL NECESSARY EQUIPMENT FOR LOW VOLTAGE LIGHTING AND CONTROLS, SUCH ITEMS WOULD INCLUDE TRANSFORMERS, POWER PACKS, AND

5. TO BE MOUNTED ON MSRL96-SN-96" STRAIGHT TO BE BENT PER DRAWINGS.



ARCHITECT:

WEB:

CONSULTANT

MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 3791 PHONE: (865) 584-0999 (865) 584-521 mbicompanies.cor



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PROJECT INFORMATION

OR CONFLICTS WHICH ARE ALLEGED.

CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

ADDISON, AL 35540 PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN DESIGN DEVELOPMENT CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SET

KEY PLAN

SHEET INFORMATION **DESIGNED BY:**

DRAWN BY: REVIEWED BY: SHEET TITLE:

> RISER DIAGRAM AND LIGHTING FIXTURE SCHEDULE

SHEET NO.:

Location: ELEC. ROOM 137
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 3P Phases: 3 Wires: 4

A.I.C. Rating: 65,000

Mains Type: MAIN BREAKER

Mains Rating: 400 A

MCB Rating: 400 A

CKT	Circuit Description	Trip	Poles		4		В		С	Poles	Trip	Circuit Description	СКТ
1	TVSS	30 A	3	0 VA	1876					3	80 A	H - HVAC	2
3						0 VA	1876						4
5								0 VA	1876				6
7	H - HVAC	25 A	1	5500	3000					1	15 A	H - HVAC	8
9	H - HVAC	20 A	1			1000	1000			1	20 A	H - HVAC	10
11	H - HVAC	20 A	1					4500	3500	1	15 A	H - HVAC	12
13	H - HVAC	15 A	1	3500	2000					1	15 A	H - HVAC	14
15	H - HVAC	15 A	1			3500	3500			1	15 A	H - HVAC	16
17	H - HVAC	15 A	1					3000	4000	1	15 A	H - HVAC	18
19	H - HVAC	15 A	1	1000	2000					1	15 A	H - VAV-18	20
21	H - VAV-17	30 A	1			8000	2500			1	15 A	H - VAV-11	22
23	H - VAV-13	15 A	1					1500	1000	1	15 A	H - VAV-12	24
25	H - VAV-20	15 A	1	2000	4500					1	20 A	H - VAV-19	26
27	SPARE	30 A	1			0 VA	0 VA			1	30 A	SPARE	28
29	SPARE	30 A	1					0 VA	0 VA	1	30 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	70 A	3	0 VA	2377					3	125 A	T-L1A	38
39						0 VA	2529						40
41								0 VA	2445				42
		Tota	al Load:	6604	6 VA	6356	2 VA	6072	4 VA				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
H - HVAC	118004 VA	100.00%	118004 VA	
L - LIGHTING	7767 VA	125.00%	9708 VA	Total Conn. Load: 190331 VA
R - RECEPTACLE	39540 VA	62.65%	24770 VA	Total Est. Demand: 171248 VA
E - EQUIPMENT	25020 VA	75.00%	18765 VA	Total Conn. Current: 229 A
SPEC	336 VA	100.00%	336 VA	Total Est. Demand Current: 206 A

231 A

219 A

Total Amps: 240 A

Branch Panel: L1A

Location: ELEC. ROOM 137
Supply From: T-L1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 3P Phases: 3 Wires: 4 A.I.C. Rating: 22,000
Mains Type: MAIN BREAKER
Mains Rating: 300 A
MCB Rating: 300 A

СКТ	Circuit Description	Trip	Poles		Ą		В	(2	Poles	Trip	Circuit Description	CKT
1	TVSS	30 A	3	0 VA	540 VA					1		R - RECEPTACLE	2
3						0 VA	540 VA			1		R - RECEPTACLE	4
5								0 VA	720 VA	1		R - RECEPTACLE	6
7	R - RECEPTACLE	20 A	1	180 VA	1000					1		R - RECEPTACLE	8
9	R - RECEPTACLE	20 A	1			180 VA	4160			2	50 A	E - EQUIPMENT	10
	R - RECEPTACLE	20 A	1					720 VA	4160				12
	R - RECEPTACLE	20 A	1	720 VA	720 VA					1		R - RECEPTACLE	14
	R - RECEPTACLE	20 A	1			540 VA	900 VA			1		R - RECEPTACLE	16
	R - RECEPTACLE	20 A	1					900 VA	900 VA	1		R - RECEPTACLE	18
	R - RECEPTACLE	20 A	1	720 VA	180 VA					1		R - RECEPTACLE	20
	R - RECEPTACLE	20 A	1			900 VA	1080			1		R - RECEPTACLE	22
	R - RECEPTACLE	20 A	1					1080	500 VA	1		R - RECEPTACLE	24
	R - RECEPTACLE	20 A	1	900 VA	500 VA					1		R - RECEPTACLE	26
	R - RECEPTACLE	20 A	1			1080	1080			1		R - RECEPTACLE	28
29	R - RECEPTACLE	20 A	1					1080	900 VA	1	20 A	R - RECEPTACLE	30
31	R - RECEPTACLE	20 A	1	1080	1620					1	20 A	R - RECEPTACLE	32
33	R - RECEPTACLE	20 A	1			540 VA	900 VA			1	20 A	R - RECEPTACLE	34
35	R - RECEPTACLE	20 A	1					720 VA	540 VA	1	20 A	R - RECEPTACLE	36
37	R - RECEPTACLE	20 A	1	720 VA	1000					1	20 A	R - RECEPTACLE	38
39	R - RECEPTACLE	20 A	1			1620	1080			1	20 A	R - RECEPTACLE	40
41	R - RECEPTACLE	20 A	1					540 VA	1080	1	20 A	R - RECEPTACLE	42
43	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	44
	R - RECEPTACLE	20 A	1			360 VA	180 VA			1	20 A	R - RECEPTACLE	46
	R - RECEPTACLE	20 A	1					180 VA	180 VA	1	20 A	R - RECEPTACLE	48
49	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	50
51	R - RECEPTACLE	20 A	1			180 VA	180 VA			1	20 A	R - RECEPTACLE	52
	R - RECEPTACLE	20 A	1						180 VA	1		R - RECEPTACLE	54
	R - RECEPTACLE	20 A	1	180 VA	180 VA					1		R - RECEPTACLE	56
	R - RECEPTACLE	20 A	1			180 VA	180 VA			1		R - RECEPTACLE	58
59	R - RECEPTACLE	20 A	1					180 VA	180 VA	1	20 A	R - RECEPTACLE	60
	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	62
63	R - RECEPTACLE	20 A	1			180 VA	720 VA			1	20 A	R - RECEPTACLE	64
	R - RECEPTACLE	20 A	1					720 VA	180 VA	1	20 A	R - RECEPTACLE	66
67	R - RECEPTACLE	20 A	1	900 VA	720 VA					1		R - RECEPTACLE	68
69	R - RECEPTACLE	20 A	1			180 VA	1400			2		E - EQUIPMENT	70
	E - EQUIPMENT	40 A	3				10	4633	1400				72
73				4633	720 VA					1	20 A	R - RECEPTACLE	74
75						4633	0 VA			1		SPARE	76
	SPARE	20 A	1					0 VA	0 VA	1		SPARE	78
	SPARE	20 A	1	0 VA	5484					3		PANEL L1B	80
	SPARE	20 A	1			0 VA	2326						82
	SPARE	20 A	1					0 VA	2608				84
	1-		al Load:	2377	78 VA	2529	94 VA		6 VA		<u> </u>		
		I Amne:		α Δ	1	2 Δ		5 Δ	J				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
H - HVAC	1200 VA	100.00%	1200 VA			
L - LIGHTING	7767 VA	125.00%	9708 VA	Total Conn. Load:	73527 VA	
R - RECEPTACLE	39540 VA	62.65%	24770 VA	Total Est. Demand:	54444 VA	
E - EQUIPMENT	25020 VA	75.00%	18765 VA	Total Conn. Current:	204 A	
SPEC	336 VA	100.00%	336 VA	Total Est. Demand Current:	151 A	

212 A

Total Amps: 198 A

1: PROVIDE 24VAC SHUNT TRIP COIL. SHUNT TRIP ACTIVATED BY FIRE ALARM FLOW SWITCH.

Branch Panel: L1B

Location: ELEC. ROOM 137

Supply From: L1A

Mounting: Surface
Enclosure: Type 1

Volts: 120/208 3P Phases: 3 Wires: 4 A.I.C. Rating: 22,000

Mains Type: MAIN LUG ONLY

Mains Rating: 100 A

						Ι		I		1			
СКТ	Circuit Description	Trip	Poles		A	ı	3	(Poles	Trip	Circuit Description	СКТ
1	TVSS	30 A	3	0 VA	722 VA					1	20 A	L - LIGHTING	2
3						0 VA	600 VA			1	20 A	L - LIGHTING	4
5								0 VA	802 VA	1	20 A	L - LIGHTING	6
7	L - LIGHTING	20 A	1	680 VA	760 VA					1	20 A	L - LIGHTING	8
9	L - LIGHTING	20 A	1			600 VA	620 VA			1	20 A	L - LIGHTING	10
11	L - LIGHTING	20 A	1					360 VA	300 VA	1	20 A	L - LIGHTING	12
13	L - LIGHTING	20 A	1	962 VA	540 VA					1	20 A	L - LIGHTING	14
15	SPEC	20 A	1			168 VA	140 VA			1	20 A	L - LIGHTING	16
17	SPEC	20 A	1					168 VA	600 VA	1	20 A	L - LIGHTING	18
19	L - LIGHTING	20 A	1	80 VA	1200					1	20 A	H - AC-1	20
21	SPARE	20 A	1			0 VA	180 VA			1	20 A	R - RECEPTACLE	22
23	R - RECEPTACLE	20 A	1					180 VA	360 VA	1	20 A	R - RECEPTACLE	24
25	R - RECEPTACLE	20 A	1	360 VA	180 VA					1	20 A	R - RECEPTACLE	26
27	R - RECEPTACLE	20 A	1			180 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	FIRE ALARM CONTROL PANEL (NOTE 1)	20 A	1					0 VA	0 VA	1	20 A	LIGHTING CONTROL PANEL	42
		Tota	al Load:	548	4 VA	232	6 VA	2608	3 VA				
		Tota	I Amps:	46	6 A	19) A	22	: A	•			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
H - HVAC	1200 VA	100.00%	1200 VA			
L - LIGHTING	7767 VA	125.00%	9708 VA	Total Conn. Load:	10412 VA	
R - RECEPTACLE	1440 VA	100.00%	1440 VA	Total Est. Demand:	12353 VA	
SPEC	336 VA	100.00%	336 VA	Total Conn. Current:	29 A	
				Total Est. Demand Current:	34 A	

I: BREAKER TO BE COLORED RED. PROVIDE LOCK ON TAB.

MBI

ARCHITECT:

CONSULTANT

MBI COMPANIES INC.
299 N. WEISGARBER ROAD
KNOXVILLE, TN 37919

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PROJECT INFORMATION
PROJECT:

CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

PROJECT ADDRESS.

17921 CR 41 ADDISON, AL 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

FOR REVIEW ONLY
FOR PERMITTING ONLY
SCHEMATIC DESIGN
DESIGN DEVELOPMENT

CONSTRUCTION BIDDING
CONSTRUCTION DOCUMENTS
AS-BUILT RECORD SET

NO. DATE

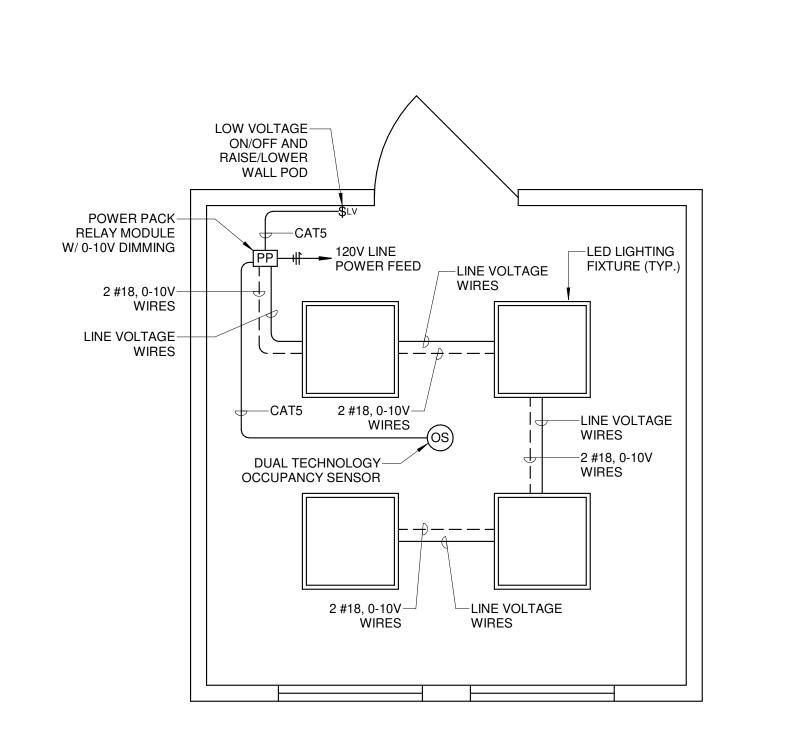
KEY PLAN

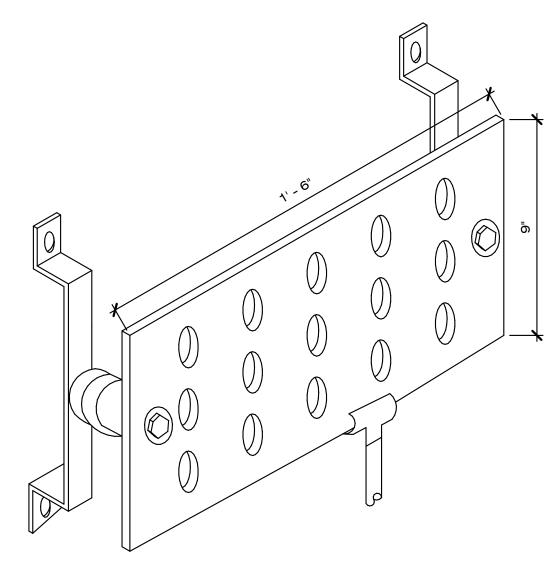
SHEET INFORMATION
SHEET ISSUED: 09/05/2019

DESIGNED BY:
DRAWN BY:
REVIEWED BY:
SHEET TITLE:

PANELBOARD SCHEDULES

SHEET NO.:

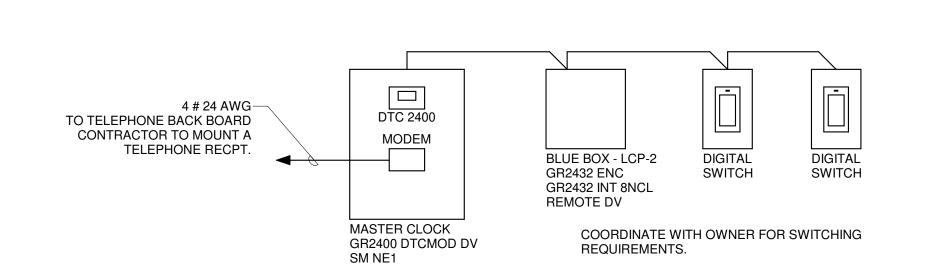




LIGHTING CONTROL PANEL "LCP" (MASTER)								
LOAD DESCRIPTION	SWITCHING ON/OFF	LOAD VA	CIRCUIT#					
CAFETERIA LIGHTING	TIMER/TIMER	750	L1B-6					
CAFETERIA LIGHTING	TIMER/TIMER	680	L1B-7					
CAFETERIA LIGHTING	TIMER/TIMER	670	L1B-2					
CAFETERIA LIGHTING	TIMER/TIMER	760	L1B-8					
HALL LIGHTING	TIMER/TIMER	910	L1B-13					
LOBBY LIGHTING	TIMER/TIMER	684	L1B-10					
PATIO LIGHTING	PC/PC	261	L1B-19					
PATIO LIGHTING	PC/PC	418	L1B-16					
	LOAD DESCRIPTION CAFETERIA LIGHTING CAFETERIA LIGHTING CAFETERIA LIGHTING CAFETERIA LIGHTING HALL LIGHTING LOBBY LIGHTING PATIO LIGHTING	LOAD DESCRIPTION SWITCHING ON/OFF CAFETERIA LIGHTING CAFETERIA LIGHTING TIMER/TIMER CAFETERIA LIGHTING TIMER/TIMER TIMER/TIMER TIMER/TIMER TIMER/TIMER TIMER/TIMER TIMER/TIMER TIMER/TIMER TIMER/TIMER TOBBY LIGHTING TIMER/TIMER PATIO LIGHTING PC/PC	LOAD DESCRIPTION SWITCHING ON/OFF LOAD VA CAFETERIA LIGHTING TIMER/TIMER 750 CAFETERIA LIGHTING TIMER/TIMER 680 CAFETERIA LIGHTING TIMER/TIMER 670 CAFETERIA LIGHTING TIMER/TIMER 760 HALL LIGHTING TIMER/TIMER 910 LOBBY LIGHTING TIMER/TIMER 684 PATIO LIGHTING PC/PC 261					

LIGHTING CONTROL PANEL SHALL BE LC&D BLUE BOX MODEL GR1404-LT-INT-NOL-DTCMOD-DV WITH GR1404-LT-ENC-SMNE1 ENCLOSURE.
PROVIDE BLUE BOX OUTDOOR PHOTOSENSOR ON ROOF FACING NORTH.
SEE LIGHTING CONTROL SYSTEM SPECIFICATION FOR ADDITIONAL INFORMATION.

LIGHTING CONTROL SCHEDULE SCALE: 12" = 1'-0"



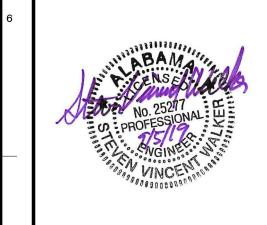
LIGHTING CONTROL RISER

SCALE: 12" = 1'-0"

ARCHITECT:

CONSULTANT

MBI COMPANIES INC. 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 (865) 584-0999 PHONE: (865) 584-5213 mbicompanies.cor



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CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 CR 41 ADDISON, AL 35540 PROJECT NO.:

ACTIVE DESIGN PHASE FOR REVIEW ONLY FOR PERMITTING ONLY SCHEMATIC DESIGN

DESIGN DEVELOPMENT CONSTRUCTION BIDDING CONSTRUCTION DOCUMENTS AS-BUILT RECORD SET

KEY PLAN

DESIGNED BY: REVIEWED BY: SHEET TITLE:

ELECTRICAL DETAILS

E501

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

LIGHTING CONTROL DETAIL

GROUNDING - BUS BAR 'SGB' SCALE: 3" = 1'-0"