

Marathon Cty. Sheriff's Dept TRC & Storage Bldg. Renovations 1000 Lakeview Drive Wausau, WI 54403 Angus Young Associates Project No. 77081

ADDENDUM #01

Monday, March 04, 2024

This addendum is issued to modify, explain or correct the original Drawings, Specifications, and Addenda marked Project Description, **Marathon Cty. Sheriff's Dept TRC & Storage Bldg. Renovations** dated **02/15/2024** and hereby made part of the contract documents. This addendum consists of **(02)** page(s) of text, **(00)** Specification(s) and **(06)** drawings(s). Please attach his Addendum to the Drawings and Project Manual in your possession.

Bid Date:

All bids must be received NO LATER THAN March 7, 2024 02:00 PM (CST)

Hard Copies to be Delivered Attn: Craig Christians, Facility Planner. Marathon County, 1000 Lake View Drive, Suite 300 (Door 27), Wausau, WI 54403. E-mail bids must have **Marathon Cty. Sheriff's Dept TRC & Storage Bldg. Renovations** in the subject line Attn: craig.christians@co.marathon.wi.us.

General Notes:

- A. All contractors are required to submit certain documents with their bids as indicated in the Instruction to Bidders.
 - a. Substitution Listing (if any)...... Section 00 26 00
 - b. Bid Form Section 00 41 13
 - c. Bid Bond (10%)..... Section 00 43 13
 - d. Affidavit and Statement on Plans & Specifications Section 00 48 10

Failure to submit all forms, completed in their entirety, shall be grounds for rejection of the bid.

- B. Each contractor, when applicable, is responsible for any City of Wausau Permit or Fees when applicable.
- C. Refer to the attached sign in sheet from the Pre-Bid Walk thru. Completed on <u>02/27/2024 10:00:00</u> <u>AM</u>.
- D. Existing Building Plans and on-site photographs are made available on the following FTP site. (case sensitive).

FTP.AngusYoung.com

Username: MC Sheriff

Password: 77080bidding

Specifications:

A. Section 07 61 20 Metal Roofing:

a) Re-roofed areas to use 24" wide standing seam on 4" batt insulation. Bulter's MR-24 roof is acceptable.

B. Section 08 36 13: Overhead Doors:

a) Part 2 Products: Door Section can be 2" thick with an R-Value of 17.5.

Drawings-77081 Marathon County TRC Renovation:

A. Sheet G101 Proposed Floor Plan:

a) Under structural add Sheet S301

B. Sheet A001 Demolition Floor Plan:

a) Omit note regarding saw-cutting of the existing slab for new sanitary piping.

C. Sheet A101 First Floor Plan and Details:

a) Door 112A is existing to remain. Door and frame to be painted.

D. Sheet A301 Door Schedule & Details:

a) Window Types A & B are to be Aluminum Framed Windows.

E. Sheet A401 Exterior Elevations:

- a) The roof slope for the building addition should ½":12.
- b) The Sheriff's department has requested that the metal wall panel be True Black and the Aluminum Window Frames to be similar to Kawneer #29 Black. The re-roofing system is to be standard galvalume roofing.
- c) Provide new metal soffit meeting existing profile at the 'Training Room 102' portion of the building in black to match the Tru Black wall panel. This is for the existing North/West wing Building.

F. Sheet S101 Foundation Slab Plan:

a) Refer to revisions as indicated.

G. Sheet S102 Roof Framing Plan:

a) Refer to revisions as indicated.

H. Sheet S301 Structural Notes:

a) Refer to added sheet.

I. Sheet S801 Structural Details:

- a) Refer to revised details as indicated.
- b) Omit Detail 12/S801.

J. Sheet P101 Plumbing Plan:

a) Refer to revised plumbing plan. The new catch basin is to have no piping from it. It will be pumped out as needed based on the garage not being used for vehicle maintenance etc.

K. Sheet M101 Mechanical Plan:

- a) Refer to the attached revised cut sheets for WEF-1 & WEF-2.
- b) Omit Keynote #01. The existing unit is to remain as is.

L. Sheet E101 Electrical Plan & Schedules:

a) Extend to new Evidence Storage 116 Fire Alarm Horn Strobe along with Heat detection coordinating with the existing FA system. Provide Pull Station at door 116A.

Drawings-77082 Marathon County Storage Building Renovation:

A. Sheet M101 First Floor Mechanical Plan:

a) The destratification ceiling plans controls are to be provided by the manufacturer.

B. Sheet E101 Proposed Lighting & Power Plan:

a) Refer to revised floor plan proposing new light fixtures as indicated.

End of Addendum #01

Marathon County Marathon Cty. Sheriff's Dept TRC & Storage Bldg. Renovations Pre-Bid Meeting Attendance

Name	Company	Email Address
KenTfilgrim	Fore-front week	Kpilgnin Offmeck-Com
NATHAN BALTHAZOR	FINDOZFF	nbalthazor@findorff.com
JASON CERCH	OMNI	jezech@omnigp.com
Gerry Gunthen	Pinper Elect.	
Daniel Lechner	Wisc. Mechania	gerry. quenther@ preper power.com Dlechner@ WimechSolutions.com
SCOTT THURBER	ALTMANN CONSTRUCTION	sthurber@altmamconstruction.com
Enic Jakobi	merkel Co. Fuc.	eric.jakobi@merkelcoinc.com
Ryan Maahs	K2M Electric	Man. maans & knele ctricinc. com
Jak Hom	Neuton Electric	jake Prenter cleec com
Brinn Murphardt	B+D Plumbing	Brian @ BD Plumbinging com
Chris Freund	Marathon Plumbing Service	chris@ marathen plumbing Service. com
Rob G: Ilis	IKM Building Sulutions	rgillise ikn building solutions. com
Kailey Trudean	HMI	MAMAGE Estimating@hvakman.com
Kevin Behrens	Confort Systems	Kbehrens @ coolsys.cm
JOE Regenord	Row's Refugertow	JOC. regenuld @ Coukys.com
Cole Kresken	Scherrer Construction	bids @ scherrer construction.com

Butch Cyzon PGA Inc HVAC Max Bornemann AWS HVAC BEIAN KARCEN VEBAN GC Phihel Camlek AWS HVAC Butche @ PGAine. not mbornemann@augustivinter.com DKarlan Curbanconstructionro "con vcanlek@augustivinker.com

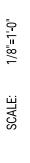
Marathon County Marathon Cty. Sheriff's Dept TRC & Storage Bldg. Renovations Pre-Bid Meeting Attendance

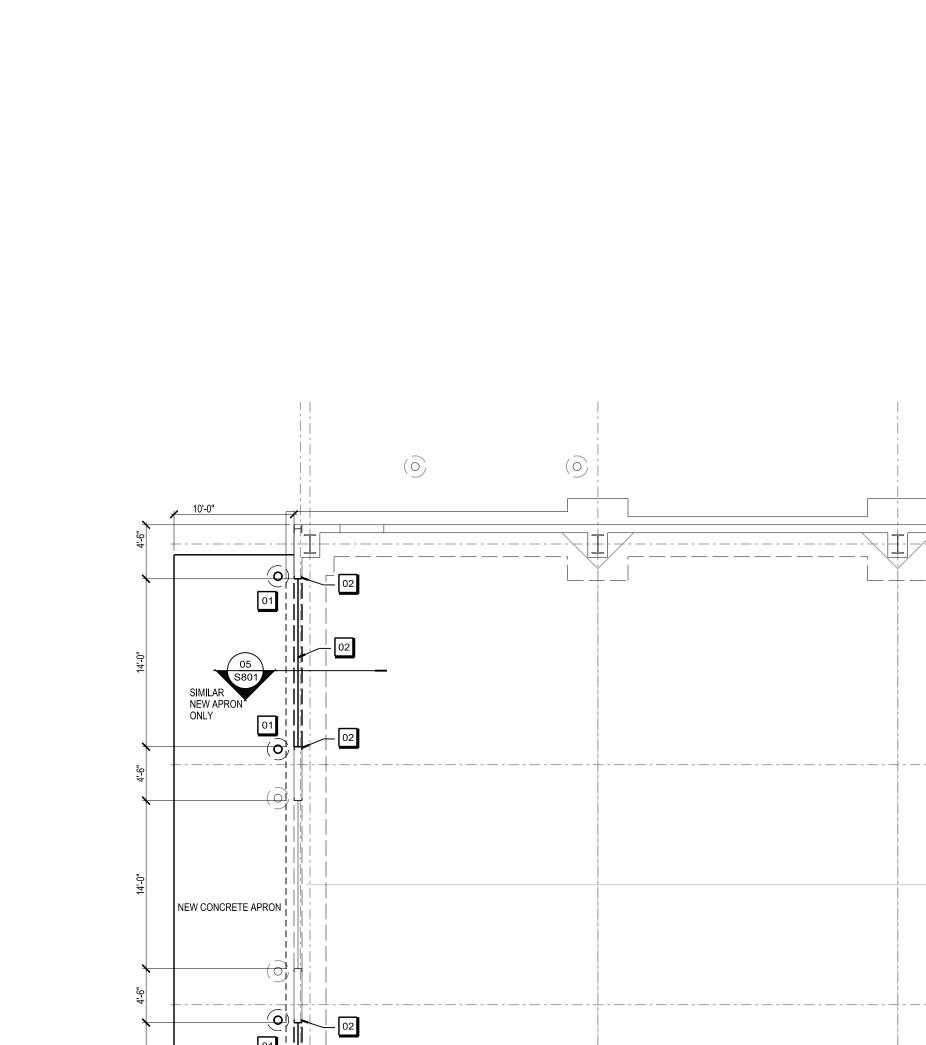
Meeting Date: February 27, 2024 10:00 AM

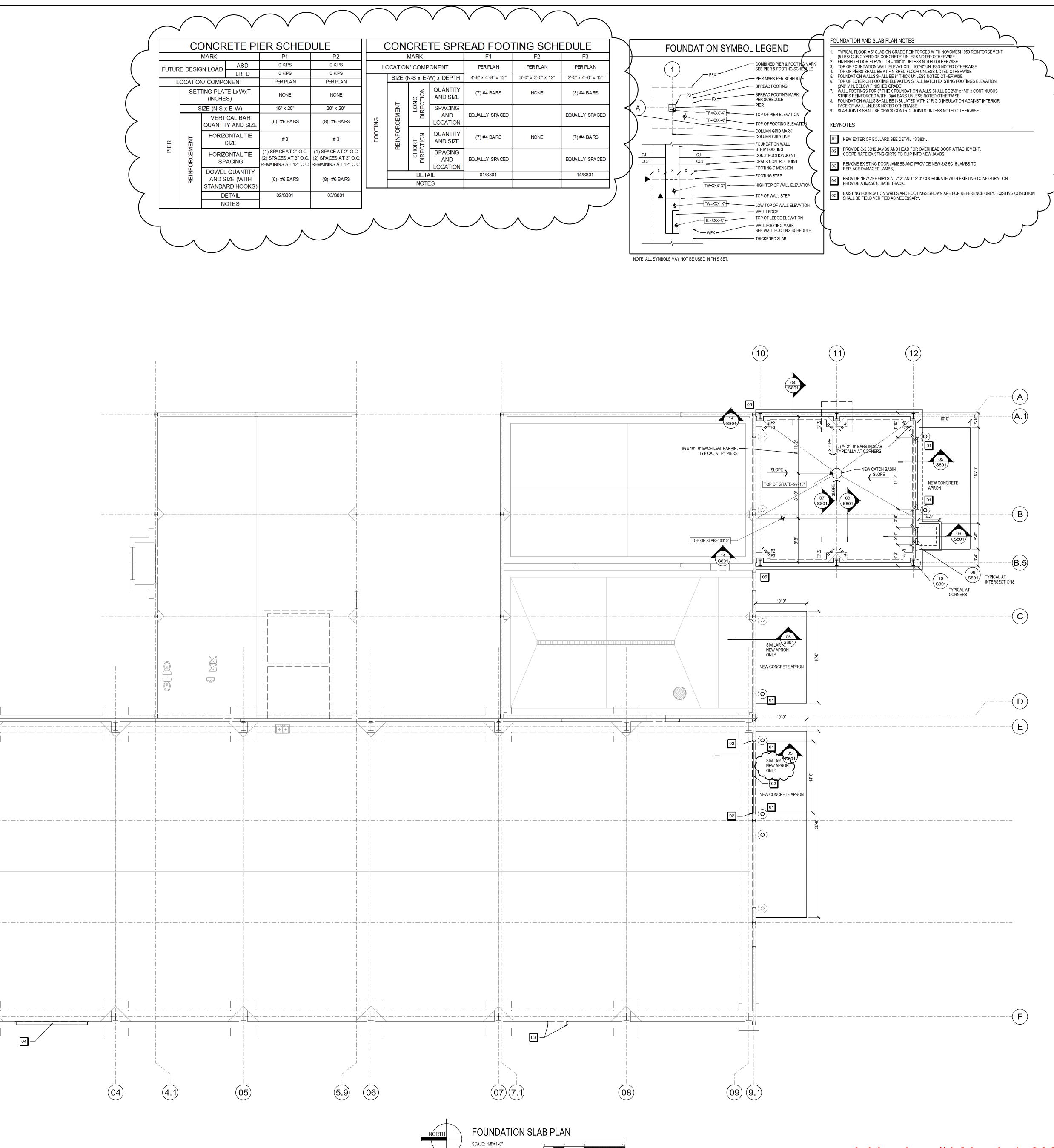
Name	Company	Email Address
Pete Stibba	Air Quality Control	AQCLLC & frontier.com
Justin Dallmann Fush Grenchery	SDS Painting	JDallmunn SDS Q Gngil. (On
Fishin Grenchery	Urban Construction	gruene berg @urbmconstruction co. com

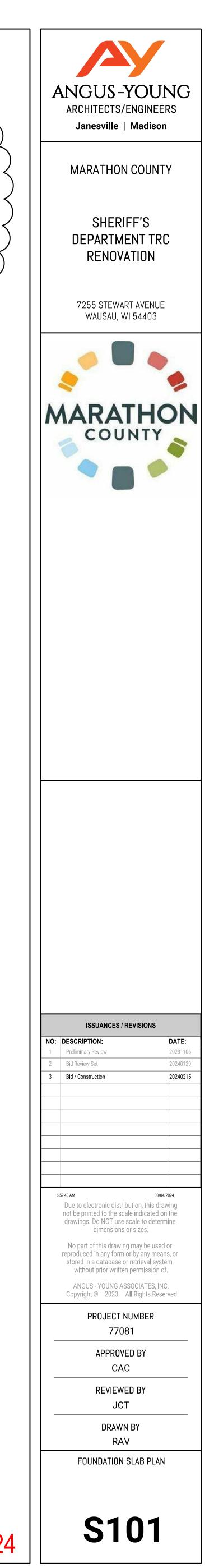
Angus-Young Associates

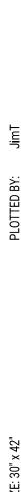


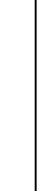


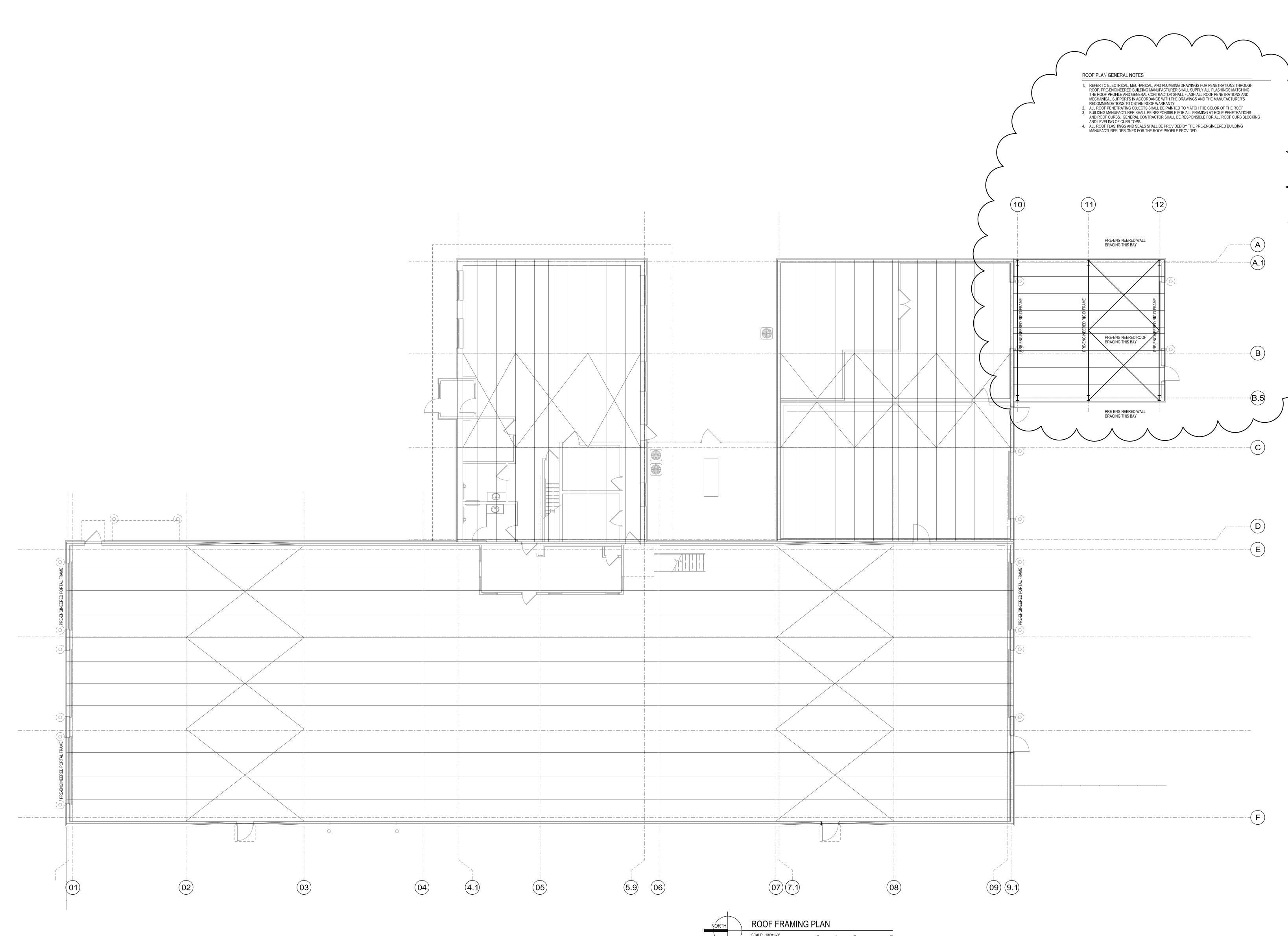


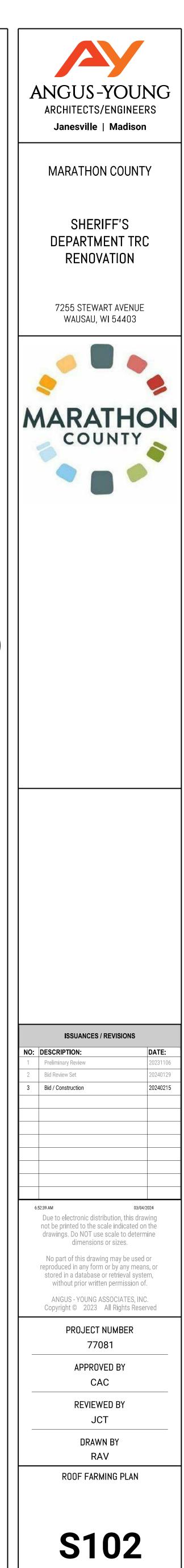












STRUCTURAL GENERAL NOTES

- DESIGN DRA WINGS SHOW THE INTENT OF REQUIRED CONSTRUCTION AND SPECIFIC CONSTRUCTION AS NEEDED TO FACILITATE CLEAR DETAILING. FOR SPECIFIC CONDITIONS NOT SHOWN, THE CONTRACTOR SHALL PROVIDE DETAILS OF CONSTRUCTION SIMILAR TO THOSE SHOWN.
- THE FOLLOWING NOTES APPLY TO THE PLANS AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICT WITH PLANS AND/OR SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENT SHALL APPLY.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EACH DRAWING AND DETAIL CONTAINED IN THE DRAWING SET AND REPORT ANY ERRORS, OMISSIONS, DISCREPANCIES, OR DETAILS NOT REFERENCED FOR INSTRUCTIONS FROM THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE EXISTING CONDITIONS, DIMENSIONS, AND CONSTRUCTION IN PROGRESS WITH THE SHOP DRA WINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS PRIOR TO SUBMITTAL, ORDERING ANY MATERIAL, OR COMMENCEMENT OF ANY WORK. ALL DIMENSIONAL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE WITH ALL CONTRACTORS THE SIZE AND LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS.
- CONSTRUCTION PRACTICE, MEANS AND METHODS, AND JOBSITE SAFETY SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REFER TO A RCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, AND OTHER DISCIPLINE DRAWINGS TO COORDINATE ALL MISCELLA NEOUS WORK PROVIDED FOR OTHER DISCIPLINES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL DIVISION OF MATERIALS AND LABOR FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS THEY PERTAIN TO THIS PROJECT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SUPPORTS, SHORING, ETC. UNTIL PERMANENT BRACING AND SUPPORT SY STEMS ARE IN PLACE AND FUNCTIONAL. THE DESIGN, A DEQUACY, AND SAFETY OF TEMPORARY BRACING, SUPPORTS, SHORING, ETC., SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING CONSTRUCTION. INVESTIGATION OF THE FRAMING AND CONNECTIONS FOR A DEQUACY DURING CONSTRUCTION SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REPOUTE EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING WORK NOT OTHERWISE INDICATED TO FACILITATE NEW CONSTRUCTION AND SHALL SUBMIT PLANS FOR A PPROVAL INDICATING EXISTING AND REPOUTED LOCATIONS.
- SUBSTITUTIONS FOR PROPRIETARY STRUCTURAL PRODUCTS DESIGNATED ON THE DRAWINGS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY INFORMATION USED TO DETERMINE ADEQUACY OF PROPOSED SUBSTITUTIONS INCLUDING STRUCTURAL CALCULATIONS IF NFCFSSA RY

SUBMITTAL REVIEW

- SUBMITTALS ARE ALL ITEMS REQUESTED TO BE SUBMITTED FOR REVIEW AND INCLUDE STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. SHOP DRAWINGS INCLUDE BOTH ERECTION AND PRODUCTION DRAWINGS.
- SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND MARKED "FOR APPROVAL"
- PRIOR TO SUBMITTAL TO THE DESIGN PROFESSIONAL, THE CONTRACTOR SHALL 1) REVIEW EACH SUBMISSION FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS; 2) REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR; 3) IDENTIFY ANY VARIATIONS FROM THE CONTRACT DOCUMENTS, 4) A PPROVE AND STAMP COMPLIANT SUBMISSIONS THUS. NON COMPLIANT
- SUBMITTALS SHALL BE REVISED UNTIL COMPLIANT. ALLOW TEN (10) WORKING DAYS FROM THE DATE OF SUBMISSION FOR THE DESIGN
- PROFESSIONAL'S SUBMITTAL REVIEW. ALLOW MORE FOR LARGE SUBMITTALS.
- SUBMITTALS SHALL BE REVIEWED AND MARKED "PROCESSED" OR "APPROVED" BY ALL REVIEWING PARTIES PRIOR TO THE START OF FABRICATION.
- REVIEW BY THE DESIGN PROFESSIONAL IS TO CONFIRM THAT THE DETAILED WORK (WHEN COMPLETE) CONFORMS TO THE DESIGN INTENT AND IS A BLE TO PERFORM AS AN INTEGRAL PART OF THE COMPLETED BUILDING SYSTEM SHOWN ON THE CONTRACT DOCUMENTS. A COMPLETED REVIEW BY THE DESIGN PROFESSIONAL IS NOT AN APPROVAL OF CHANGES SHOWN IN THE SUBMITTAL, IS NOT AN INDICATION THAT THE DESIGN PROFESSIONAL HAS CHECKED DIMENSIONS SHOWN IN THE SUBMITTAL, AND DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITIES FOR CORRECTNESS OF THE DETAILS, OMISSIONS, ERRORS, AND CONFORMANCE WITH THE CONTRACT.
- FINAL STRUCTURAL DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE PROVIDED FOR RECORD PURPOSES AND MARKED "FOR CONSTRUCTION" PRIOR TO INSTALLATION.
- CONSTRUCTION ELEMENTS DESIGNATED AS STRUCTURAL COMPONENTS ARE DESIGNED BY PARTIES OTHER THAN THE DESIGN PROFESSIONAL OF RECORD AND HAVE THE ADDITIONAL REQUIREMENTS OF SUBMITTAL TO AUTHORITIES HAVING JURISDICTION. SUBMIT STRUCTURAL COMPONENT FINAL STRUCTURAL DESIGN CALCULATIONS, SHOP DRAWINGS, AND THE REQUIRED SUBMITTAL FEE TO THE DESIGN PROFESSIONAL FOR REVIEW, SIGNATURE, AND SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION.
- STRUCTURAL COMPONENT SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION ARE REQUIRED TO BE COMPLETED PRIOR TO INSTALLATION OR FINES COULD BE IMPOSED BY THE AUTHORITY HAVING JURISDICTION. ALL FINES WILL BE BACKCHARGED TO THE CONTRACTOR
- STRUCTURAL COMPONENT DESIGNS SHALL MATCH THE GEOMETRY SHOWN ON THE DESIGN DRAWINGS TO MAINTAIN THE OVERALL STRUCTURAL DESIGN CONCEPT AND ASSUMPTIONS USED IN THE DESIGN OF CONNECTING PORTIONS OF THE BUILDING. ANY AND ALL DEVIATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL OF RECORD PRIOR TO IMPLEMENTATION. ADDITIONAL COSTS TO EITHER THE DESIGN PROFESSIONAL OF RECORD OR OTHER CONTRACTORS FOR UNA PPROVED CHANGES SHALL BE THE RESPONSIBILITY OF THE COMPONENT SUPPLIER.

EARTHWORK

- CONTACT PROPER A UTHORITIES TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- A LICENSED GEOTECHNICAL ENGINEER ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ALL BEARING CONDITIONS AND COMPACTED FILL INSTALLATIONS PRIOR TO CONCRETE PLACEMENT. FOUNDATION CONSTRUCTION MAY BE ADJUSTED BY THE DESIGN PROFESSIONAL IF REQUIRED BY THE GEOTECHNICAL ENGINEER. CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- CONTRACTOR SHALL COORDINA TE AND SCHEDULE WHEN THE GEOTECHNICAL ENGINEER IS TO BE ON SITE. NO FOOTINGS OR FOUNDATIONS SHALL BE PLACED WITHOUT PRIOR A PPROVAL FROM THE GEOTECHINCAL ENGINEER.
- IF EXCAVATION INDICATES A SOIL BEARING CAPACITY LESS THAN DESIGN CAPACITY
- AT FOOTING DEPTH, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING. COMPACT ALL SUBGRADE MATERIAL PRIOR TO PLACMENT OF ANY FILL. REMOVE
- LOOSE MATERIAL AND DEBRIS THAT CANNOT BE ADEQUATELY COMPACTED.
- FOOTINGS SHALL BE CAST ON UNDISTURBED SOIL, COMPACTED FILL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- COMPACT ALL SUBGRADE BELOW FOOTINGS PRIOR TO CONCRETE PLACEMENT. HOLES, TRENCHES, OR DISTURBANCES IN THE SOIL SHALL NOT BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH A RE REQUIRED, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- BOTTOM OF FOOTINGS A DJACENT TO EXISTING FOUNDATIONS SHALL BE AT THE SAME ELEVATION AS THE EXISTING FOUNDATION UNLESS A 2:1 MAXIMUM SLOPE (HORIZONTAL TO VERTICAL) IS MAINTAINED BETWEEN BOTTOM OF FOOTINGS.
- DO NOT PLACE UNDERGROUND UTILITES OR PIPES BELOW FOOTINGS WITHOUT CONSULTING THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- TOPSOIL OR UNA CCEPTA BLE SOIL BELOW SLABS ON GRADE SHALL BE REMOVED. SUBGRADE UNDER SLABS SHALL BE ENGINEERED FILL COMPACTED IN 6" LAYERS.
- BACKFILL A GAINST ANY WALLS OR CONSTRUCTION SHALL NOT BE PLACED UNLESS THE WALLS ARE ADEQUATELY BRACED TO WITHSTAND THE LOADS IMPOSED DUE TO THE BACKFILLING OPERATION.
- DESIGN, FURNISH, AND INSTALL ALL TEMPORARY SHEETING AND SHORING NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.

- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE CONCRETE CONCRETE WORK SHALL CONFORM TO THE ACIMANUAL OF STANDARD PRACTICE
- INCLUDING BUT NOT LIMITED TO ACI 301 ("SPECIFICATIONS FOR STRUCTURAL CONCRETE") ACI 305("HOT WEATHER CONCRETING"), AND ACI 306("COLD WEATHER CONCRETING"). CONCRETE DETAILING SHALL CONFORM TO ACI SP-66("ACI DETAILING MANUAL").
- THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ON ALL CONCRETE PROPERTIES.
- CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL, BUILDING INSPECTOR, AND TESTING AGENCY AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE
- SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES. JOINTS SHALL BE SPACED IN SUCH A WAY THAT THE LENGTH TO WIDTH RATIO OF UN-JOINTED SLAB PORTION SHALL NEVER BE GREATER THAN 2. SPACING SHOULD BE APPROXIMATELY 2.5 x SLAB THICKNESS (CONVERTED TO FEET) WITH A MAXIMUM SPACING BETWEEN JOINTS OF 15'-0".
- EXTERIOR SLABS BROOM FINISH INTERIOR SLABS - TROWEL FINISH
- SLABS ON GRADE SHALL HAVE A 10 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE
- SLOPE SLAB ON GRADE AT OVERHEAD DOORS 1/2" IN DEPTH OF DOOR JAMB AWAY FROM BUILDING.

SAW-CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW AND SHALL BE COMPLETED BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING, WITHIN 16 HOURS MAXIMUM OF THE INITIAL CASTING OPERATION.

- ALLOW AT LEAST 24 HOURS BEFORE POURING A DJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS.
- MAX LENGTH OF POUR TO BE 50 FEET UNLESS CRACK INDUCERS ARE USED.
- ALL REINFORCEMENT SHALL BE SECURELY HELD IN POSITION BY SUITABLE ACCESSORIES PRIOR TO CONCRETE PLACEMENT EXCEPT AS NOTED OR SPECIFIED.
- PIERS SHALL BE POURED MONOLITHICALLY WITH WALLS. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRA DE UNLESS NOTED OTHERWISE
- FOOTINGS SHALL BE CENTERED BELOW WALLS, PIERS, AND COLUMNS ABOVE UNLESS NOTED OTHERWISE . SLOPE EXTERIOR STOOPS 1/4" PER FOOT AWAY FROM BUILDING.
- TOP OF FOUNDATION WALL SHALL BE DROPPED 8" AT DOOR THRESHOLDS FOR FLOOR
- SLAB CAP. WIDTH OF CAP SHALL BE EQUAL TO WIDTH OF ROUGH OPENING. WHERE REINFORCING IS CALLED FOR IN PORTIONS OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING.
- DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN VERTICAL REINFORCING.
- BARS SPLICES SHALL BE LAPPED WITH CLASS B SPLICE LENGTHS UNLESS NOTED OTHERWISE LAP WELDED WIRE REINFORCEMENT 6 INCHES. - HORIZONTAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS
- VERTICAL REINFORCING IN CONCRETE WALLS SHALL END 2" FROM THE TOP OF THE
- PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH EACH WAY.
- PROVIDE INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL.
- DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL.
- WALL OR SLAB PENETRATIONS SHALL HAVE (2) #4 BARS DIAGONALLY AT CORNERS OF OPENINGS CENTERED IN SLAB: EXTEND 1'-0" BEY OND THE EDGE OF THE PENETRATION IN EACH DIRECTION.
- SLABS SHALL HAVE #4 BARS DIAGONALLY AT INSIDE CORNERS OF WALLS, PIERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER.
- PIPES A ND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE A PPROVED BY THE DESIGN PROFESSIONAL. PIPE AND CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT OR FITTING THAN 2 INCHES OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM, OR WALL; AND SHALL BE LOCATED AND PLACED AS SUCH:

1. NOT CLOSER THAN THREE DIA METERS ON CENTER. 2. CONCRETE COVER IS NOT LESS THAN 2 INCHES.

- COORDINATE AND VERIFY SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, CHASES, CONDUITS, DEPRESSED A REAS, FLOOR FINISHES, FILLS, A NCHORS, STONE A ND MASONRY INSERTS, HANGERS, CURBS, AND OTHER MISCELLANEOUS ITEMS BEFORE PLACING CONCRETE.
- CALCIUM CHLORIDE OR A DMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE
- A MINIMUM OF 4 CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH CONCRETE PORTION TESTED.

CONCRETE REINFORCMENT

- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE CONCRETE REINFORCEMENT

STRUCTURAL STEEL

- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE STRUCTURAL STEEL.
- WELDS SHALL BE AWS PRE-QUALIFIED, MADE WITH A E70xx ELECTRODE, AND SHALL BE PERFORMED BY WELDERS, AWS CERTIFIED FOR WELDS MADE.
- CLEAN, PREPARE, AND SHOP PRIME STRUCTURAL STEEL MEMBERS IN A CCORDANCE

LIGHTGAGE METAL FRAMING

WITH S.S.P.C. STANDARDS SP-1.

- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE LIGHTGAGE METAL FRAMING. LIGHTGAGE METAL FRAMING ELEMENTS ARE STRUCTURAL COMPONENTS AND HAVE THE ADDITIONAL REQUIREMENTS REQUIRED AS SUCH.
- SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
- STUDS, TRACK AND ACCESSORIES SHALL BE GALVANIZED.
- LIGHT GAGE FRAMING MEMBERS SHOWN ON PLANS AND DETAILS ARE SCHEMATIC AND
- ARE SHOWN FOR INTENT ONLY.
- ATTACH BRIDGING TO STUDS PRIOR TO APPLICATION OF VERTICAL LOADS.
- STUDS NOT VERTICALLY SUPPORTING LOADS SHALL TRANSFER LATERAL LOADS TO STRUCTURE BY MEANS OF SLIDE CLIPS TO ALLOW FOR VERTICAL MOVEMENT OF PRIMARY STRUCTURAL MEMBERS.
- FOR 18 GAUGE AND THINNER FRAMING. CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS. FOR THICKER SECTION, WELDED OR BOLTED CONNECTIONS MAY ALSO BE USED
- CONTRACTOR SHALL SUBMIT THE MANUFACTURERS CATALOG FOR LIGHTGAGE

METAL FRAMING USED VERIFY ING MEMBER PROPERTIES.

- RE-ENGINEERED METAL BUILDINGS
- BUILDINGS.
- ADDITIONAL REQUIREMENTS REQUIRED AS SUCH.
- PRE-ENGINEERED BUILDING ERECTION DRAWINGS SHALL HAVE COLUMN GRID LINES AND NUMBERS THAT MATCH THE CONSTRUCTION DOCUMENTS PRODUCED BY THE DESIGN PROFESSIONAL.

- A CERTIFIED TESTING AGENCY ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY

- SLABS ON GRADE SHALL HAVE THE FOLLOWING FINISH UNLESS NOTED OTHERWISE

- SLOPE SLAB ON GRADE 1/8" PER FOOT TO DRAINS UNLESS NOTED OTHERWISE.

3. NO REINFORCING SHALL BE DISPLACED.

CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE PRE-ENGINEERED METAL

PRE-ENGINEERED METAL BUILDINGS ARE STRUCTURAL COMPONENTS AND HAVE THE

IF THE PRE-ENGINEERED METAL BUILDING FAILS TO MATCH THE CONSTRUCTION DOCUMENTS WHICH RESULTS IN REDESIGN REQUIRED TO BE COMPLETED BY THE DESIGN PROFESSIONAL, THE CONTRACTOR WILL BE BACK-CHARGED BY THE OWNER FOR THE DESIGN PROFESSIONAL'S REDESIGN FEES.

FOR PROBLEMS A RISING FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICA TIONS, FOUNDATION DESIGN SHOWN ON DRAWINGS MUST BE VERIFIED WITH LOADING AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS A RISING FROM OTHERS' PROVIDED BY PRE-ENGINEERED BUILDING DESIGNER PRIOR TO CONSTRUCTION - VERIFY WITH THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION.

STRUCTURAL DESIGN SPECIFICATIONS

WHICH ARE ALLEGED.

CODE

DESIGN LOADS:

ROOF LIVE

ROOF SNOW (ASCE 7-10)

WIND (ASCE 7-10)

THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY

FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH LOCAL,

BUILDING ANALY SIS AND DESIGN WERE AND SHALL BE BASED ON THE STATE

OF WISCONSIN BUILDING CODE AS A MENDED TO DATE.

RESPECT TO A NY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS

STATE, AND FEDERAL REGULATIONS APPLICABLE TO WORK AND PROJECT LOCATION

EDITION AND DATE OF REFERENCED STANDARDS SHALL BE AS LISTED IN THE BUILDING

ROOFING = 5 PSF

200-600 INTERPOLATE

LEEWARD = 35 PSF

=> 600 12 PSF

MISCELLA NEOUS = 4 PSF

MISCELLA NEOUS ON FRAMES = 10 PSF

SNOW EXPOSURE FACTOR (C_{a}) = 1.00

SNOW IMPORTANCE FACTOR $(I_{s}) = 1.00$

THERMAL FACTOR $(C_{i}) = 1.00$

 $GROUND SNOW LOAD (P_{q}) = 50 PSF$

LEEWARD AT SURCHARGE = 43.6 PSF

FLAT ROOF SNOW LOAD (P_f) = 35 PSF ROOF SLOPE FACTOR $(C_s) = 1.00$

SLOPED ROOF SNOW LOAD $(P_s) = 35$ PSF

RISK CATEGORY =

-0.18

UNBALANCED SNOW: WINDWARD = 10.5 PSF

SURCHARGE DISTANCE FROM RIDGE = 13.41 FT

3 SECOND GUST BASIC WIND SPEED $(V_{IIIT}) = 115$ MPH

3 SECOND GUST BASIC WIND SPEED $(V_{ASD}) = 90$ MPH

BUILDING CATEGORY : ENCLOSED

ZONE WIDTH (A) = 3 FT

NOTE - INTERPOLATE FOR EFFECTIVE WIND A REAS NOT SHOWN

EFFECTIVE WIND A REALLESS THAN: 10 SQ FT

EFFECTIVE WIND A REA GREATER THAN: 100 SQ FT

EFFECTIVE WIND A REALLESS THAN: 10 SQ FT

EFFECTIVE WIND A REA GREATER THAN: 500 SQ FT

SEISMIC IMPORTANCE FACTOR, $I_{r} = 1.00$

SEISMIC DESIGN CATEGORY = A

SHORT PERIOD MAPPED SPECTRAL RESPONSE $(S_s) = 0.048$ g

SHORT PERIOD DESIGN SPECTRAL RESPONSE $(S_{ns}) = 0.051$ g

1 SECOND PERIOD DESIGN SPECTRAL RESPONSE $(S_{D1}) = 0.050$ g

DEFLECTION DUE TO WIND LOADS SHALL BE CALCULATED BASED ON 0.7 TIMES THE

- DRIFTING AND SLIDING SNOW SHALL BE CONSIDERED IF REQUIRED

WORST CASE LOADING COMBINATIONS SHALL BE USED

FOOTINGS WERE DESIGNED USING A NET SOIL BEARING CAPACITY OF 2000 PSF.

THE DESIGN SOIL BEARING CAPACITY WAS BASED ON PRESUMPTIVE VALUES AND

DESIGN AND FABRICATION OF WELDS SHALL BE IN ACCORDANCE WITH THE AWS

STRUCTURAL WELDING CODE AND THE AISC MANUAL OF STANDARD PRACTICE

DESIGN, FABRICATION, AND ERECTION OF COLD FORMED STEEL MEMBERS SHALL BE IN

ACCORDANCE WITH THE AISI DESIGN SPECIFICATIONS AND MANUAL OF STANDARD

DESIGN, FABRICATION, AND ERECTION OF HOT FORMED STEEL MEMBERS SHALL BE IN

ACCORDANCE WITH THE AISC DESIGN SPECIFICATIONS AND MANUAL OF STANDARD

W-SHAPE BEAMS AND COLUMNS SHALL CONFORM TO ASTM A992, Fy = 50ksi

PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36, Fy = 36ks

COLD FORMED TUBING SHALL CONFORM TO A STM A 500, GRADE B, Fy = 42ksi

FOR ROUNDS AND Fy=46ksi FOR SHAPES

PIPE SHALL CONFORM TO A STM A 53, GRADE B, Fy = 35ksi

STEEL STUD GAUGES, FRAMING, AND CONNECTIONS SHALL BE DESIGNED BY THE

STRUCTURAL STEEL CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT

HOT FORMED TUBING SHALL CONFORM TO ASTM A501, Fy = 36ksi

- UNBA LA NCED LOA DING SHALL BE CONSIDERED

SHALL BE CONFIRMED BEFORE OR DURING CONSTRUCTION.

MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE

EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED.

DOCUMENTS SHALL BE DESIGNED BY THE SUPPLIER.

SUPPLIER. STEEL SHALL BE 50 KSI UNLESS NOTED OTHERWISE

REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

1 SECOND PERIOD MAPPED SPECTRAL RESPONSE $(S_1) = 0.031$ g

RISK CATEGORY =

SITE CLASS = D

3000 PS

4000 PSI

4000 PSI

4000 PSI

ZONE 2 =

ZONE1 = 11.7 PSF

ZONE3 = 11.7 PSF

ZONE1 = 9.3 PSF

ZONE 2 = 9.3 PSF

ZONE3 = 9.3 PSF

ZONE 4 = 28.8 PSF

ZONE 5 = 28.8 PSF

ZONE 4 = 21.5 PSF

ZONE 5 = 21.5 PSF

-28.8 PSF

11.7 PSF

-48.4 PSF

-72.8 PSF

-26.4 PSF

-31.3 PSF

-31.3 PSF

-31.3 PSF

-38.6 PSF

-23.9 PSF

-23.9 PSF

NORTH-SOUTH WIND EXPOSURE CATEGORY =

INTERNAL PRESSURE COEFFICIENTS: +0.18

COMPONENTS AND CLADDING LOADS:

ROOFS:

WALLS

EARTHQUAKE (ASCE 7-10)

COMPONENTS AND CLADDING LOADS.

PRACTICE.

PRACTICE

FOOTINGS

PIFRS

STRUCTURAL STEEL

FOUNDATION WALLS

SLABS ON GRADE

STRUCTURAL COMPONENT DESIGN NOTES:

EAST-WEST WIND EXPOSURE CATEGORY =

NOTE - REFER TO A SCE 7 FOR ZONE DIAGRAMS

TRIBUTARY AREA: <= 200 20 PSF

ANCHOR BOLT EMBEDMENT SHALL BE 18" UNLESS NOTED OTHERWISE

- CONNECT PIER TO SLAB WITH #6 HAIRPINS WITH 10'-0" LEGS UNLESS NOTED OTHERWISE DESIGN ALL COLUMNS WITHOUT FLANGE BRACES
- ROOF STRUCTURE SHALL BE DESIGNED FOR THE MINIMUM DEAD LOAD EVEN IF THE ROOFING PANELS ARE LIGHTER THAN THE MINIMUM

MISCELLA NEOUS DEAD LOA DING (COLLA TERAL GRAVITY) SHALL BE 4 PSF MINIMUM ON THE ENTIRE STRUCTURE WITH AN ADDITIONAL 6 PSF (10 PSF TOTAL) ON THE FRAMES ONLY

HORIZONTAL DEFLECTION OF ALL FRAMES SHALL NOT EXCEED 1/100 OF THE HEIGHT HORIZONTAL DEFLECTION OF WALL GIRTS SHALL NOT EXCEED 1/240 OF THE SPAN

VERTICAL DEFLECTION OF ALL GIRTS SHALL NOT EXCEED 1/240 OF THE SPAN. PROVIDE SAG RODS IF NECESSARY

COORDINATE MECHANICAL UNIT LOCATIONS, WEIGHTS, AND SIZES WITH MECHANICAL CONTRACTOR

FRAMING FOR ALL ROOFTOP UNITS AND OPENINGS SHALL BE PROVIDED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER STRUCTURAL FRAMING GAGES, SIZES, AND CONNECTIONS SHALL BE DESIGNED BY

PRE-ENGINEERED METAL BUILDING MANUFACTURER BRACING SHALL BE PLACED IN LOCATIONS SHOWN ON THE DRAWINGS IF NEEDED

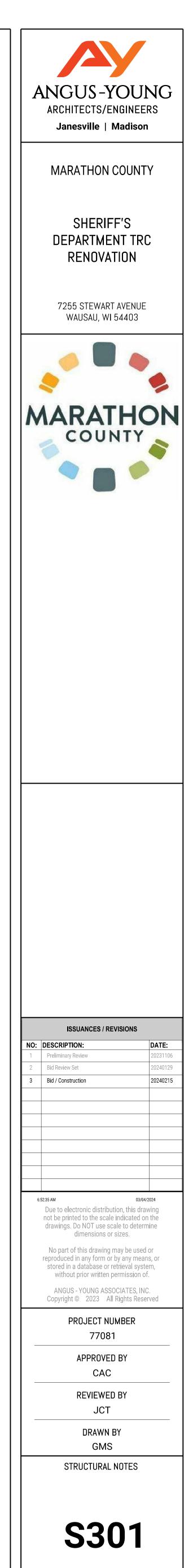
MISCELLANEOUS

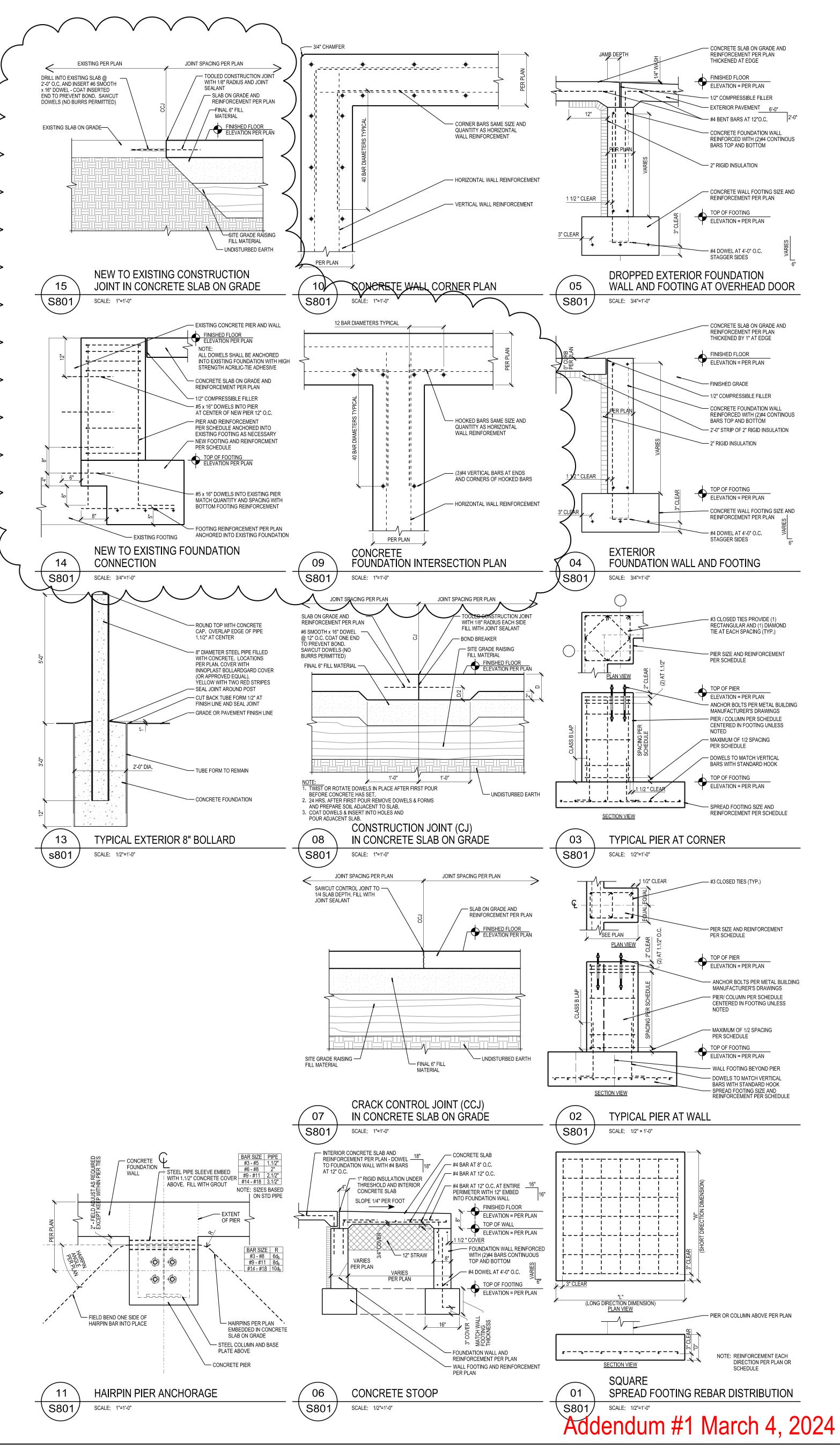
PROVISIONS SHALL BE TAKEN TO ASSURE NON-STRUCTURAL COMPONENTS ARE NOT DISTORTED OR DAMAGED BY DEFLECTION OF THE STRUCTURE INCLUDE DEFLECTION TRACK AT ALL INTERIOR NON-LOAD BEARING STUD WALLS.

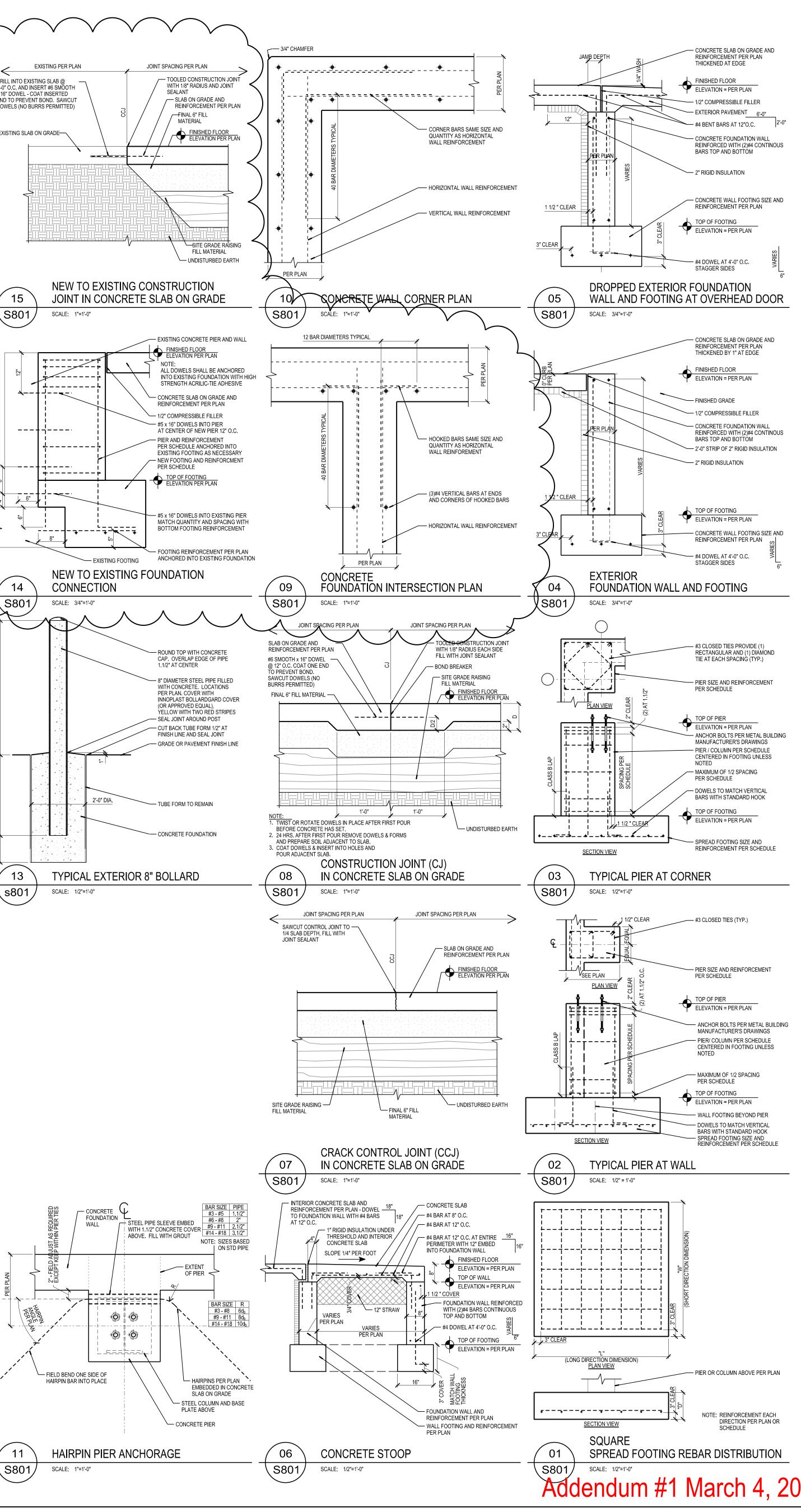
- POWDER-ACTUATED FASTENERS SHALL FOLLOW ANSI A 10.3 SPECIFICATIONS A DHESIVE A NCHORS SHALL BE SIMPSON STRONG TIE A CRY LIC-TIE A DHESIVE UNLESS NOTED OTHERWISE OR A PPROVED BY THE DESIGN PROFESSIONAL.
- EXPANSION ANCHORS SHALL BE SIMPSON STRONG TIE STRONG-BOLT UNLESS
- NOTED OTHERWISE OR A PPROVED BY THE DESIGN PROFESSIONAL. SLEEVE ANCHORS SHALL BE SIMPSON STRONG TIE SLEEVE-ALL UNLESS

NOTED OTHERWISE OR APPROVED BY THE DESIGN PROFESSIONAL. THE MINIMUM END CONNECTION OF GIRTS SHALL BE MADE WITH TWO (2) A 325 1/2" DIA METER BOLTS OR EQUIVALENT WELD UNLESS NOTED OTHERWISE.

- PLUMB, ALIGN, AND SECURELY ATTACH STUD FLANGES OR WEBS TO LOWER TRACK.

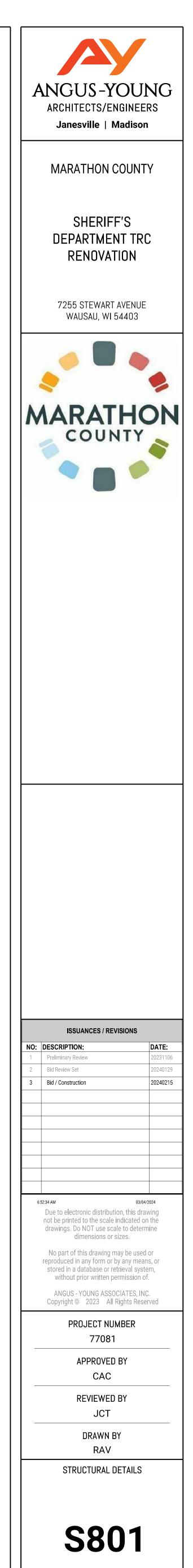


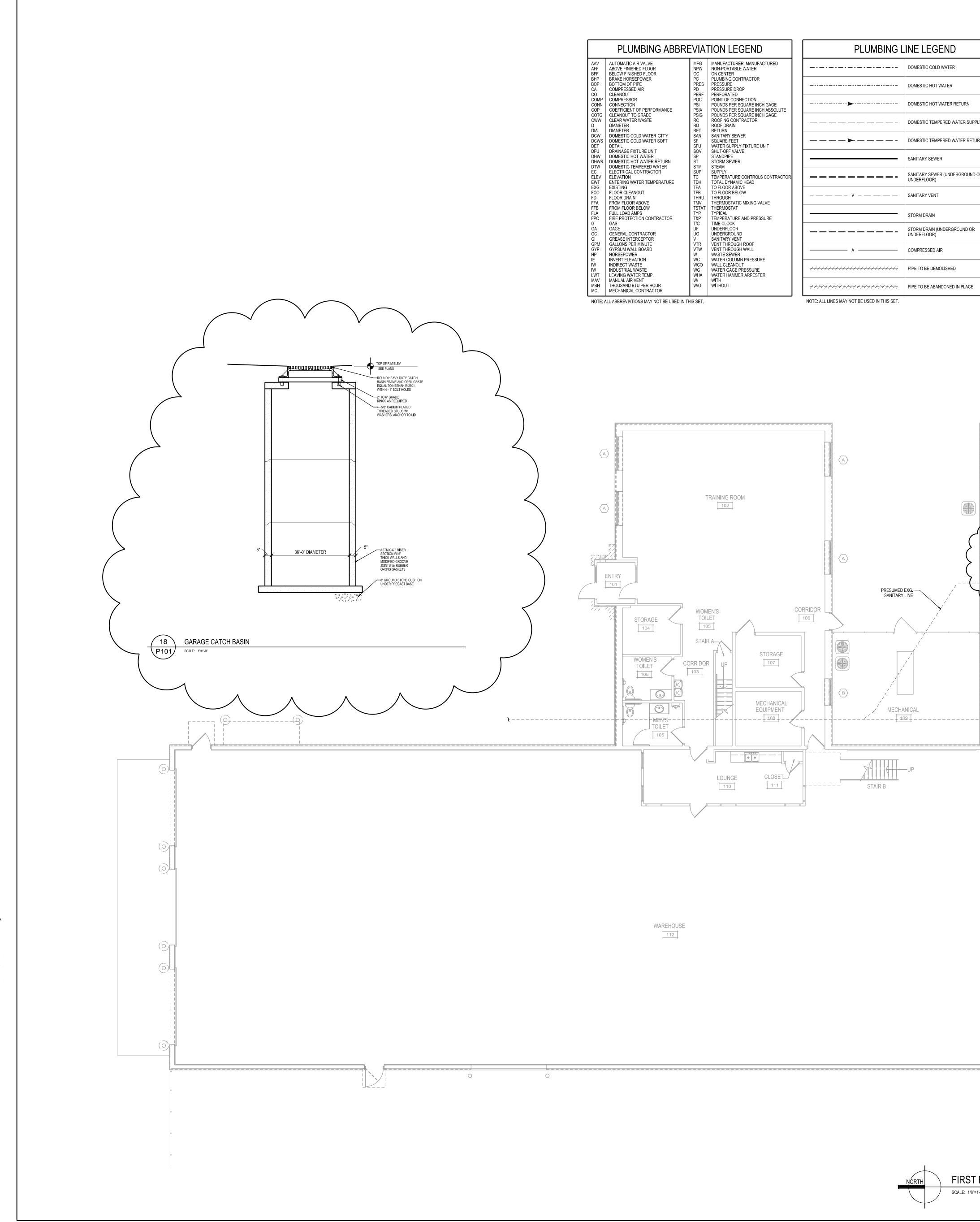












	PLUMBING ABBRE	EVIA	TION LEGEND	PLUMBING L	INE LEGEND
AAV AFF BFF	AUTOMATIC AIR VALVE ABOVE FINISHED FLOOR BELOW FINISHED FLOOR	MFG NPW OC	MANUFACTURER, MANUFACTURED NON-PORTABLE WATER ON CENTER		DOMESTIC COLD WATER
BHP BOP CA CO	BRAKE HORSEPOWER BOTTOM OF PIPE COMPRESSED AIR CLEANOUT	PC PRES PD PERF	PLUMBING CONTRACTOR PRESSURE PRESSURE DROP PERFORATED		DOMESTIC HOT WATER
COMP CONN COP	COMPRESSOR CONNECTION COEFFICIENT OF PERFORMANCE	POC PSI PSIA	POINT OF CONNECTION POUNDS PER SQUARE INCH GAGE POUNDS PER SQUARE INCH ABSOLUTE	►	DOMESTIC HOT WATER RETURN
COTG CWW D DIA	CLEANOUT TO GRADE CLEAR WATER WASTE DIAMETER DIAMETER	PSIG RC RD RET	POUNDS PER SQUARE INCH GAGE ROOFING CONTRACTOR ROOF DRAIN RETURN		DOMESTIC TEMPERED WATER SUPPLY
DCW DCWS DET	DOMESTIC COLD WATER CITY DOMESTIC COLD WATER SOFT DETAIL	SAN SF SFU	SANITARY SEWER SQUARE FEET WATER SUPPLY FIXTURE UNIT	>	DOMESTIC TEMPERED WATER RETURN
DFU DHW DHWR DTW	DRAINAGE FIXTURE UNIT DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN DOMESTIC TEMPERED WATER	SOV SP ST STM	SHUT-OFF VALVE STANDPIPE STORM SEWER STEAM		SANITARY SEWER
EC ELEV EWT EXG	ELECTRICAL CONTRACTOR ELEVATION ENTERING WATER TEMPERATURE EXISTING	SUP TC TDH	SUPPLY TEMPERATURE CONTROLS CONTRACTOR TOTAL DYNAMIC HEAD TO FLOOR ABOVE		SANITARY SEWER (UNDERGROUND OR UNDERFLOOR)
FCO FD FFA	FLOOR CLEANOUT FLOOR DRAIN FROM FLOOR ABOVE	TFA TFB THRU TMV	TO FLOOR ABOVE TO FLOOR BELOW THROUGH THERMOSTATIC MIXING VALVE	V	SANITARY VENT
FFB FLA FPC G	FROM FLOOR BELOW FULL LOAD AMPS FIRE PROTECTION CONTRACTOR GAS	TSTAT TYP T&P T/C	THERMOSTAT TYPICAL TEMPERATURE AND PRESSURE TIME CLOCK		STORM DRAIN
GA GC GI	GAGE GENERAL CONTRACTOR GREASE INTERCEPTOR	UF UG V	UNDERFLOOR UNDERGROUND SANITARY VENT		STORM DRAIN (UNDERGROUND OR UNDERFLOOR)
GPM GYP HP IE	GALLONS PER MINUTE GYPSUM WALL BOARD HORSEPOWER INVERT ELEVATION	VTR VTW W WC	VENT THROUGH ROOF VENT THROUGH WALL WASTE SEWER WATER COLUMN PRESSURE	A	COMPRESSED AIR
IW IW LWT	INDIRECT WASTE INDUSTRIAL WASTE LEAVING WATER TEMP.	WCO WG WHA	WALL CLEANOUT WATER GAGE PRESSURE WATER HAMMER ARRESTER	+++++++++++++++++++++++++++++++++++++++	PIPE TO BE DEMOLISHED
MAV MBH MC	MANUAL AIR VENT THOUSAND BTU PER HOUR MECHANICAL CONTRACTOR	W/ W/O	WITH WITHOUT	+++++++++++++++++++++++++++++++++++++	PIPE TO BE ABANDONED IN PLACE

PLUMBING SYMBOL LEGEND					
⊕ 🗐	FLOOR DRAIN				
-0	FLOOR CLEANOUT				
— ə	PIPE DROPS				
0	PIPE RISES				
	POINT OF CONNECTION TO EXISTING, FIELD VERIFY				
~	SANITARY RISE & CONNECTION				

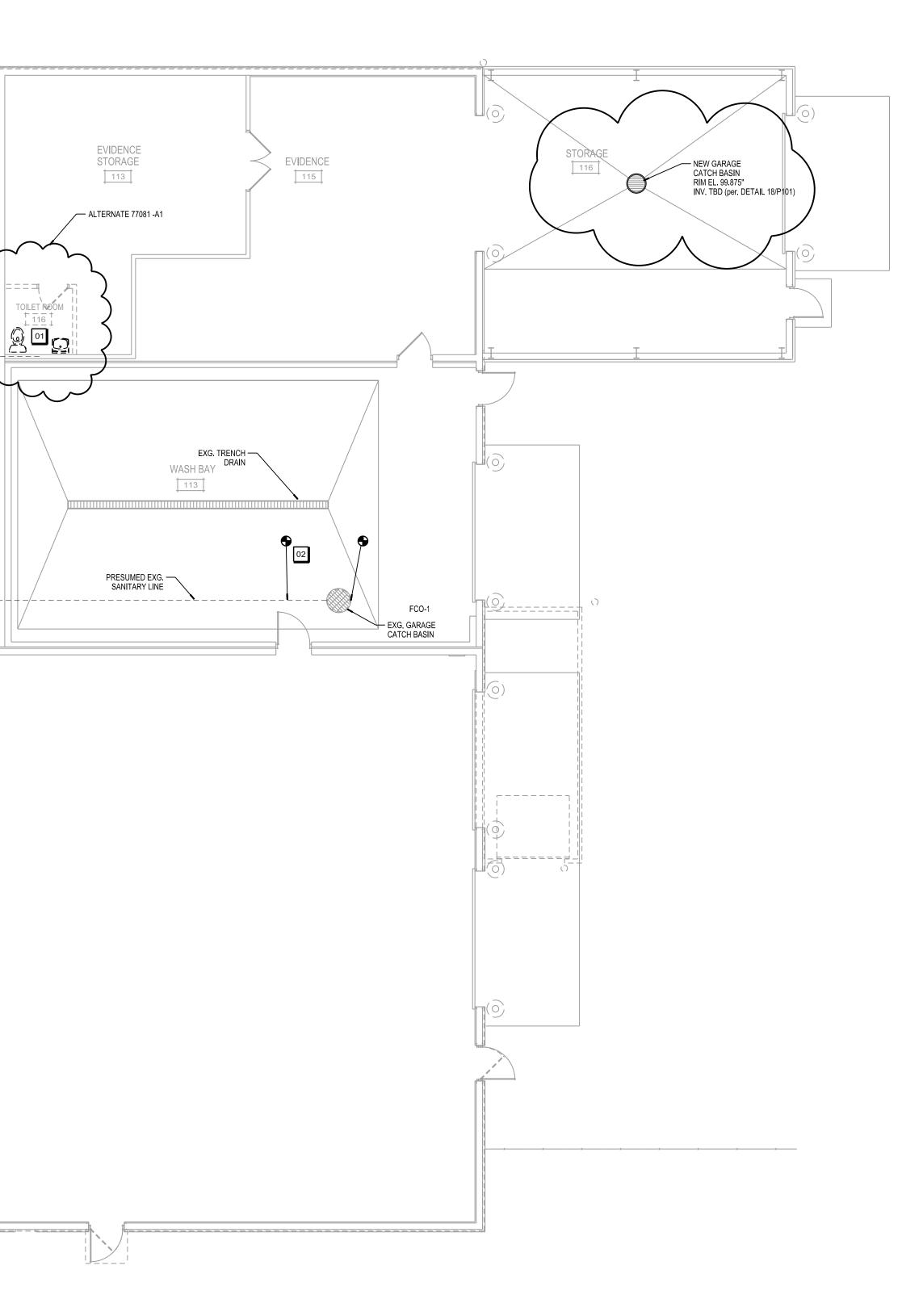
NOTE: ALL SYMBOLS MAY NOT BE USED IN THIS SET.

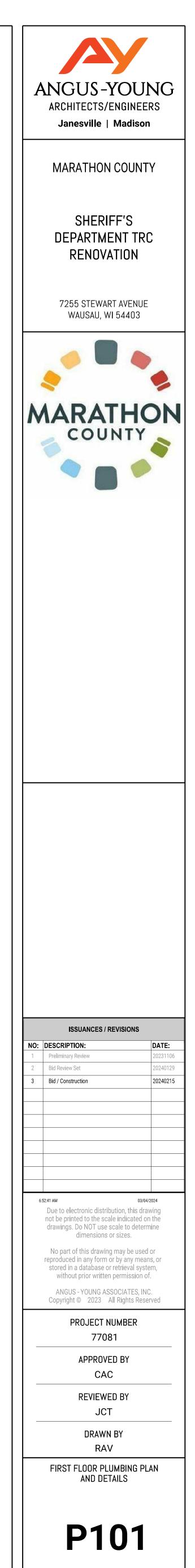
GENERAL NOTES

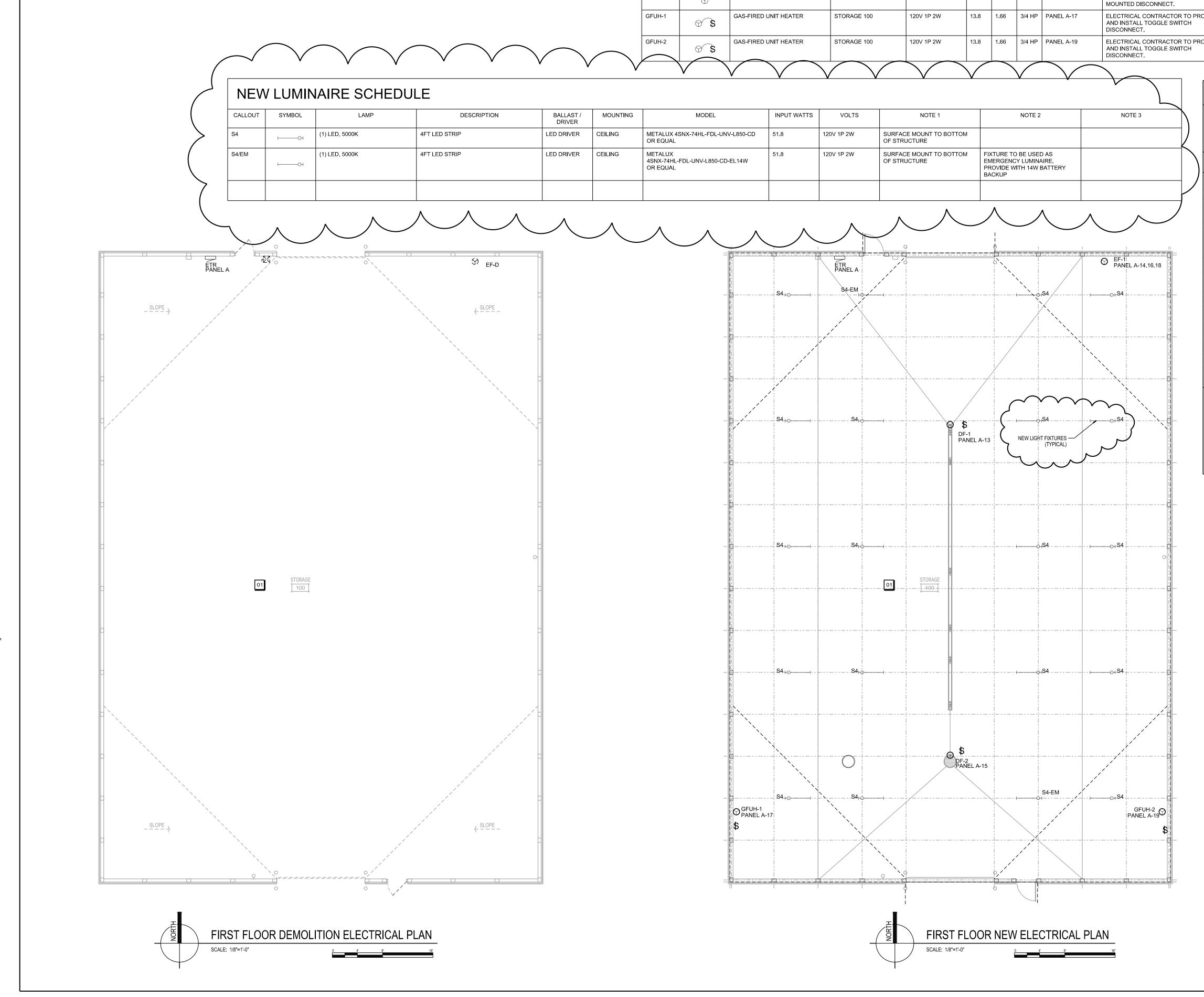
- 1. COORDINATE ALL PIPING WITH ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS. 2. SUSPENDED PIPING AFF SHALL BE RUN TIGHT TO BOTTOM OF STRUCTURE WHERE POSSIBLE. ALL PIPING IN THE PLUMBING SYSTEM SHALL BE SUPPORTED IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 382.60 OF THE WISCONSIN PLUMBING CODE. PLUMBING CONTRACTOR TO COORDINATE WITH OTHER TRADES.
- 3. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED ABOVE CEILINGS OR WITHIN WALLS. 4. INSTALL ALL WATER DISTRIBUTION PIPING PITCHED TO LOWEST POINT(S). INSTALL DRAIN VALVES AT
- LOW POINTS. 5. INSTALL 3" AND LARGER DRAIN PIPE WITH MINIMUM PITCH OF 1/8" PER LINEAR FOOT.
- 6. INSTALL 2" AND SMALLER DRAIN PIPE WITH MINIMUM PITCH OF 1/4" PER LINEAR FOOT.
- 7. ALL SANITARY AND VENT PIPING SHALL BE PVC UNLESS OTHERWISE NOTED. ALL DOMESTIC WATER PIPING ABOVE GROUND SHALL BE TYPE L COPPER UNLESS OTHERWISE NOTED. ALL STORM PIPING SHALL BE SCH. 40 PVC UNLESS OTHERWISE NOTED.
- 8. PIPE MATERIAL AND VALVES MUST MEET ALL STANDARDS OF THE WISCONSIN PLUMBING CODE.
- PLUMBING CONTRACTOR SHALL INSULATE ALL DOMESTIC WATER PIPING PER WISCONSIN PLUMBING CODE SECTION 382.40(5)(B)3 AND APPLICABLE IECC REQUIREMENTS.

KEYNOTES

- 01 REMOVE EXISTING PLUMBING FIXTURES AND CAP BELOW FINSHED FLOOR. **PER. ALTERNATE 70781-A1**
- IF INVERT ELEVATION ALLOWS, CONNECT NEW SANITARY TO EXISTING SANITARY LINE AND NOT TO THE EXISTING CATCH BASIN. FIELD VERIFY EXISTING SANITARY LOCATION AND ELEVATION. PROVIDE CLEANOUTS PER WIS SPS 382.35.







CALLOUT	SYMBOL	DESCRIPTION	LOCATION	VOLTS	AMPS	KVA	HP	CIRCUIT	NOTE 1
DF-1	\$	DESTRATIFICATION FAN	STORAGE 100	120V 1P 2W	0.92	0.11		PANEL A-13	ELECTRICAL CONTRACTOR TO PROV AND INSTALL TOGGLE SWITCH DISCONNECT.
DF-2	𝔅 \$	DESTRATIFICATION FAN	STORAGE 100	120V 1P 2W	0.92	0.11		PANEL A-15	ELECTRICAL CONTRACTOR TO PROVI AND INSTALL TOGGLE SWITCH DISCONNECT.
EF-1	\odot	NEW EXHAUST FAN	STORAGE 100	208V 3P 3W	6.92	2.49	1.5 HP	PANEL A-14,16,18	PROVIDE CONNECTION TO FACTORY MOUNTED DISCONNECT.
GFUH-1	𝔅 \$	GAS-FIRED UNIT HEATER	STORAGE 100	120V 1P 2W	13.8	1.66	3/4 HP	PANEL A-17	ELECTRICAL CONTRACTOR TO PROV AND INSTALL TOGGLE SWITCH DISCONNECT.
GFUH-2	S \$	GAS-FIRED UNIT HEATER	STORAGE 100	120V 1P 2W	13.8	1.66	3/4 HP	PANEL A-19	ELECTRICAL CONTRACTOR TO PROV AND INSTALL TOGGLE SWITCH DISCONNECT.

	NOTE 2	NOTE 3	DISCONNECT
OVIDE	PROVIDE 20A/1P CIRCUIT TO UNIT FROM PANEL A		TOGGLE SWITCH
OVIDE	PROVIDE 20A/1P CIRCUIT TO UNIT FROM PANEL A		TOGGLE SWITCH
RY			HARDWIRED CONNECTION
OVIDE	PROVIDE 20A/1P CIRCUIT TO UNIT FROM PANEL A		TOGGLE SWITCH
OVIDE	PROVIDE 20A/1P CIRCUIT TO UNIT FROM PANEL A		TOGGLE SWITCH

PANEL A ROOM MOUNTING SURFACE FED FROM UTILITY NOTE

VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%

AIC 22,000 MAIN BKR 200 LUGS STANDARD

	СКТ #	CKT	LOAD				СКТ #		LOAD			
	#	BKR	KVA	CIRCUIT DESCRI	TION		#	BKR	KVA	CIRCUIT	ESCRIPTIC	N .
/	1	20/1	0	PANEL RECPT.		а	2	20/1	0	WEST SIDE	E LIGHTS	
	3	20/1	0	RECPT. WEST WALL			4	20/1	0	EAST SIDE	LIGHTS	
	5	20/1	0	RECPT. WEST WA	LL	с	6	20/1	0	OUTSIDE L	IGHTS	
	7	20/1	0	RECPT. EAST WA	LL	а	8	20/1	0	TIME CLOC	CK & LOUVE	R POWER
	9	20/1	0	RECPT. EAST WA		b	10	20/1	0	NORTH DO	OR OPENE	R
	11	20/1	0	RECPT. EAST WA	LL CAMERAS	С	12	20/1	0	SOUTH DOOR OPENER		R
	10	00/4								/		
	13	20/1	0.11	DF-1		a		20/3	2.49	EF-1		
	15	20/1	0.11	DF-2		b	16					-
	17	20/1	1.66	GFUH-1		С	18					-
	19	20/1	1.66	GFUH-2		a	20	-/1	0	SPACE		-
	21	-/1	0	SPACE		b	22	-/1	0	SPACE		-
	23	-/1	0	SPACE		С	24	-/1	0	SPACE		-
	25	-/1	0	SPACE		a	26	-/1	0	SPACE		-
	27	-/1	0	SPACE		b	28	-/1	0	SPACE		÷
	29	-/1	0	SPACE		С	30	-/1	0	SPACE		
	31	-/1	0	SPACE		a	32	-/1	0	SPACE		-
	33	-/1	0	SPACE		b	34	-/1	0	SPACE		
	35	-/1	0	SPACE		С	36	-/1	0	SPACE		
	37	-/1	0	SPACE		а	38	-/1	0	SPACE		
	39	-/1	0	SPACE		b	40	-/1	0	SPACE		
	41	-/1	0	SPACE		С	42	-/1	0	SPACE		
			CC	NN. KVA CALC	. KVA				CC	DNN. KVA	CALC. K\	/A
	HG	HTING	0	0	(125%)	С	ONT	INUOUS)	0	(125%)
		RGEST MO	-	49 3.12	(125%)		IEAT		(0	(120%)
		HER MOTC		53 3.53	(100%)			ONTINUO			0	(100%)
		CEPTACLE		0	(50%>10)			IEN EQUIP			0	(N/A)
			.0 0	0	(00/0-10)			OIN/DIVEF			0	(N/A)
								L KVA		, 5.03	6.65	
								NCED THR			18.5	
		PHAS	SE BALAI	NCE PERCENT: PH	ASE A 129	%		PHASE	B 46.8	3% F	PHASE C	124%

GENERAL NOTES

- THE BUILDING WILL REMAIN OCCUPIED AND IN USE DURING THE RENOVATION PROCESS. 1. SCHEDULE THE WORK TO MINIMIZE DISRUPTION AND COORDINATE ANY NECESSARY DISRUPTIONS WITH THE OWNER.
- THE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM THE ORIGINAL 2. CONSTRUCTION DRAWINGS WHERE AVAILABLE, AND FROM LIMITED FIELD REVIEW OF THE BUILDING AND SYSTEMS. PRIOR TO BIDDING, EACH CONTRACTOR SHALL INVESTIGATE THE EXISTING SYSTEM TO THE EXTENT NECESSARY TO ACCURATELY DETERMINE THE EXACT EXTENT OF THE REQUIRED WORK.
- THE CONTRACTOR'S BID PRICE SHALL INCLUDE THE RESOLUTION OF MINOR DISCREPANCIES AT NO COST TO THE OWNER. PRIOR TO THE START OF THE RENOVATION THE CONTRACTOR 3. SHALL RE-VERIFY ALL EXISTING ELECTRICAL SYSTEMS AND SYSTEM COMPONENTS AND REPORT ANY SIGNIFICANT DISCREPANCIES FOUND TO THE A/E FOR RESOLUTION. ANY CONTROLLED EQUIPMENT OR COMPONENTS NOT NOTED IN THE PLANS OR SPECS BUT FOUND PRIOR TO OR DURING COMPLETION OF THE NEW WORK SHALL ALSO BE REPORTED TO THE A/E.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZE OF EXISTING BRANCH CIRCUIT WIRING, PANEL CAPACITY, CONDITION, AND BREAKERS.
- 5. CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS AND OTHER FINISHED SURFACES. IF DAMAGED, CONTRACTOR SHALL REPAIR OR REPLACE TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. VERIFY LOCATIONS OF AND PROTECT EXISTING INTERIOR ELECTRICAL AND MECHANICAL UTILITIES AND SERVICES.
- ANY ELECTRICAL EQUIPMENT FOUND TO BE NON-FUCTIONAL OR IN NEED OF REPAIR OR 6. MAINTENANCE WORK SHALL BE REPORTED TO THE A/E AND THE OWNER.
- 7. ELECTRICAL CONTRACTOR TO CALCULATE VOLTAGE DROP OF ALL BRANCH CIRCUITS EXCEEDING 100' AND INCREASE CONDUCTOR AND GROUND SIZES AS REQUIRED TO MAINTAIN LESS THAN 5% COMBINED FEEDER/BRANCH VOLTAGE DROP AT THE FARTHEST LOAD.

DEMOLITION NOTES

- DEMOLITION OF AN ITEM SHALL INCLUDE REMOVAL OF ALL RELATED WIRING, HANGERS, SUPPORTS, CONDUIT, AND ACCESSORIES UNLESS NOTED OTHERWISE. 1
- 2. ALL MATERIALS & EQUIPMENT REQUIRING REMOVAL AND RELOCATION FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND SHALL BE REINSTALLED AS THE WORK PROGRESSES.
- 3. ALL MATERIALS AND EQUIPMENT REMOVED AND NOT REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS NOTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO SALVAGE PARTS FROM ANY ELECTRICAL EQUIPMENT BEFORE REMOVAL FROM THE SITE.
- 4. VERIFY CONDITION OF EXISTING CIRCUIT WIRING AND RACEWAYS. REUSE EXISTING CIRCUIT WIRING AND RACEWAY FOR NEW CIRCUITS SHOWN ON PLANS. EXTEND AS NECESSARY.
- 5. LABEL "D" INDICATES DISCONNECT AND REMOVE, LABEL "ETR" INDICATES EXISTING TO REMAIN.

KEYNOTES

EXISTING LIGHT FIXTURES TO BE REMOVED FOR NEW FIXTURES. COORDINATE EXISTING CONDUIT WITH GENERAL CONTRACTOR FOR CEILING PANEL INSTALLATION.

	ANGUS-YO ARCHITECTS/ENGIN	· -						
	Janesville Mad							
	MARATHON	I						
	COUNTY							
	SHERIFF'S DEPARTMENT STORAGE BUILDING							
		birta						
	7015 PACKER DRI WAUSAU, WI 5440							
•								
	COUNT	IN THE REPORT OF THE PARTY OF T						
	ISSUANCES / REVISIO							
NO:	DESCRIPTION: Preliminary Floor Plan	DATE: 20240111						
	DESCRIPTION:	DATE:						
1 2	DESCRIPTION: Preliminary Floor Plan Bid Review Set	DATE: 20240111 20240129						
1 2	DESCRIPTION: Preliminary Floor Plan Bid Review Set	DATE: 20240111 20240129						
1 2	DESCRIPTION: Preliminary Floor Plan Bid Review Set	DATE: 20240111 20240129						
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1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction	DATE: 20240111 20240129 20240215 0 0 0 0 0 0 0 0 0 0 0 0 0						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction	DATE: 20240111 20240129 20240215 0 0 0 0 0 0 0 0 0 0 0 0 0						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction Bidding / Construction	DATE: 20240111 20240129 20240215 20250						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction Bidding / Construction	DATE: 20240111 20240129 20240215 202 20300/2024 drawing may ated on the determine 202 203/04/2024 drawing may ated or / means, or al system, sion of. ES, INC. s Reserved						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction Bidding / Construction	DATE: 20240111 20240129 20240215 202 20300/2024 drawing may ated on the determine 202 203/04/2024 drawing may ated or / means, or al system, sion of. ES, INC. s Reserved						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction Bidding / Construction	DATE: 20240111 20240129 20240215 202 20300/2024 drawing may ated on the determine 202 203/04/2024 drawing may ated or / means, or al system, sion of. ES, INC. s Reserved						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction Bidding / Construction	DATE: 20240111 20240129 20240215 202 20300/2024 drawing may ated on the determine 202 203/04/2024 drawing may ated or / means, or al system, sion of. ES, INC. s Reserved						
1 2 3 	DESCRIPTION: Preliminary Floor Plan Bid Review Set Bidding / Construction Bidding / Construction	DATE: 20240111 20240129 20240215 20240215 20240215 20240215 20240215 20240215 20240215 20240215 2024024 20240215 2024021 2						





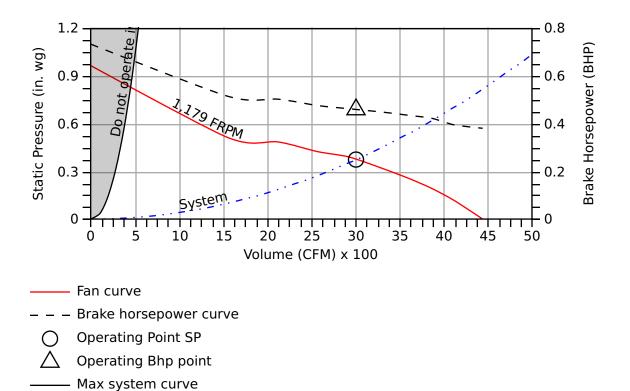
Model: SBE-2H20

Sidewall Belt Drive Exhaust Fan

Standard Construction Features: Galvanized steel panel with fabricated galvanized steel drive frame (optional wall housing or wall collar). Propeller, steel. Belt driven motor in the air stream.

Fan Configuration	
Drive type	Belt

Performance	
Requested Volume (CFM)	3,000
Actual Volume (CFM)	3,000
Total External SP (in. wg)	0.38
Fan RPM	1,179
Drive Loss (%)	13
Operating Power (bhp)	0.46
Startup Power (bhp)	0.46
Air Stream Temp (F)	70
Start-up Temp (F)	70
Air Density (lbs/ft^3)	0.072
Elevation (ft)	1295
Static Efficiency (%)	44
Outlet Velocity (ft/min)	1,325



Motor	
Size (hp)	1/2
V/C/P	115/60/1
NEC FLA (Amps)	9.8
Min Circuit Ampacity (MCA)	12.2
Max Overload Production (MOP)	20

Sound

System curve

Octave Bands (hz)								LwA	dBA	Sones	
	62.5	125	250	500	1000	2000	4000	8000			
Inlet	83	82	81	79	76	75	71	67	82	71	19.6



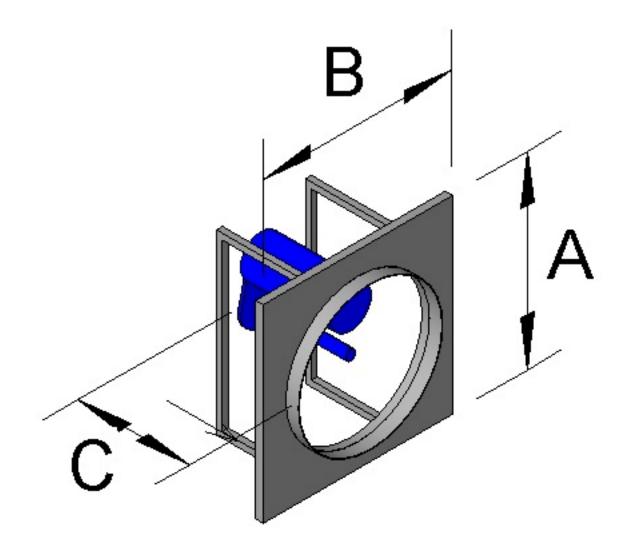
Greenheck Fan Corporation certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA certified ratings seal applies to sound and air performance ratings only.Performance certified is for installation type A: Free inlet, free outlet.Power rating includes transmission losses.Performance ratings do not include the effects of appurtenances. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301.Values shown are for Installation Type A: free inlet hemispherical sone levels.dBA levels are not licensed by AMCA International. The AMCA Certified Ratings Seal for Sound applies to inlet sone ratings only.



FLA - based on tables 150 or 148 of National Electric Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc.).



Dimensions and Weights								
Label	Value	Description						
-	20	Wheel Diameter (in)						
-	68	Weight w/o accessories (lbs)						
А	26	Overall Height (in)						
В	26	Overall Width (in)						
С	20	Overall Length (in)						
-	22.5	Wall Opening Width (in)						
-	22.5	Wall Opening Height (in)						





Model: AER-24-02-0312

Sidewall Direct Drive Exhaust Fan

Standard Construction Features: Galvanized steel panel with fabricated galvanized steel drive frame (optional wall housing or wall collar). Propeller, fabricated steel (02) or cast aluminum (03). Direct driven motor in the airstream.

Fan Co	onfiguration	
	Drive type	Direct

Performance	
Requested Volume (CFM)	6,000
Actual Volume (CFM)	6,013
Total External SP (in. wg)	0.38
Fan RPM	1,750
Operating Power (bhp)	0.93
Startup Power (bhp)	0.93
FEI	1.48
Air Stream Temp (F)	70
Start-up Temp (F)	70
Air Density (lbs/ft^3)	0.072
Elevation (ft)	1295
Static Efficiency (%)	38
Outlet Velocity (ft/min)	1,856

	0 FRPM ystem 4 5 6 7 CFM) x 1000	Brake Horsepower (BHP)
——— Fan curve	Static Pressure Calculations	
– – Brake horsepower curve	External SP	0.38 in. wg
 Operating Point SP 	Direct Drive RPM Adjustment	0 in. wg
\triangle Operating Bhp point	Total External SP	0.38 in. wg
——— Max system curve		

Motor	
Size (hp)	1
V/C/P	460/60/3
NEC FLA (Amps)	2.1
Min Circuit Ampacity (MCA)	2.6
Max Overload Production (MOP)	15

Sound

System curve

		Sound											
-		Octave Bands (hz)								LwA	dBA	Sones	
			62.5	125	250	500	1000	2000	4000	8000			
	Ī	Inlet	89	91	89	82	81	79	76	70	87	76	27



Greenheck Fan Corporation certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA certified ratings seal applies to sound and air performance and FE ratings only.Performance certified is for installation type A: Free inlet, free outlet.Power rating does not include transmission losses.Performance ratings do not include the effects of appurtenances. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.dBA levels are not licensed by AMCA International. The AMCA Certified Ratings Seal applies to LwiA and inlet sone ratings only.

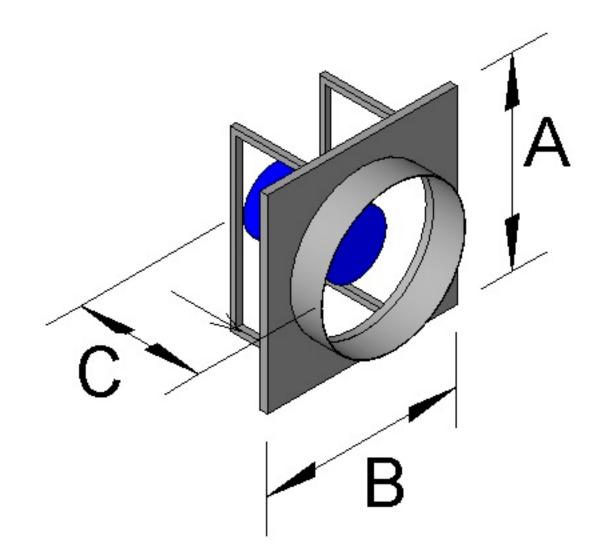


FLA - based on tables 150 or 148 of National Electric Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc.).

Addendum #1 March 4, 2024 Version 3.7.0, January 2024



Dimensions and Weights								
Label	Value	Description						
-	24.125	Wheel Diameter (in)						
-	86	Weight w/o accessories (lbs)						
А	32	Overall Height (in)						
В	32	Overall Width (in)						
С	19	Overall Length (in)						
-	26.5	Wall Opening Width (in)						
-	26.5	Wall Opening Height (in)						



*All dimensions are in inches.