WAKELY ASSOCIATES, INC.
ARCHITECTS
30500 Van Dyke Avenue Suite 209
Warren, MI 48093

November 18, 2024

ADDENDUM NO. 05 to the plans and specifications for MACOMB COUNTY – COUNTY WAREHOUSE – F & O AND PURCHASING OFFICE RENOVATION, CLINTON TOWNSHIP, MI, Architect's Project No. 242053, dated OCTOBER 31, 2024

Drawings A1.0, A1.1, A2.0, A4.0, A4.1, A4.2 are being issued with this Addendum.

ARCHITECTURAL ITEMS:

ITEM NO. A1: Refer to Drawing G0.0 (Not Issued):
1. Added sheet A4.2

ITEM NO. A2: Refer to Drawing A1.0 (Re-Issued):
1. Revised detail 1/A1.0 Typ. Curb Framing Detail.
2. Added RTU max wight of 6,100lbs.

ITEM NO. A3: Refer to Drawing A1.1 (Re-Issued):
1. Revised two detail notes on detail 13/A1.1.

ITEM NO. A4: Refer to Drawing A2.0 (Re-Issued):
1. Revised two detail notes on detail 2/A2.0.

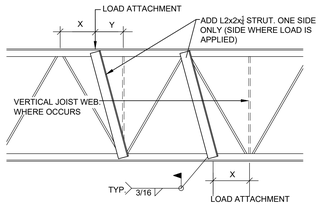
ITEM NO. A5: Refer to Drawing A4.0 (Re-Issued):
1. Revised notes on details 1, 2, and 3/A4.0.

ITEM NO. A6: Refer to Drawing A4.1 (Re-Issued):
1. Revised detail notes on detail 1/A4.1.
2. Revised drawing detail numbers.

ITEM NO. A7: Refer to Drawing A4.2 (Issued):
1. Added sheet A4.2.

END OF ADDENDUM NO. 5

Cc: Mary Schultz, Macomb County
Ben Treppa, Macomb County Facilities & Operations
Anthony Torelli, Macomb County
Dan Waters, Wakely Associates
Ron Syme, Wakely Associates



NOTE:
1. ALL ADDITIONAL SUPPLEMENTAL STRUT MUST BE INSTALLED IN STEEL JOISTS AT ALL CONCENTRATED LOADS IN EXCESS OF 50 LBS. UNLESS THE LOAD ATTACHMENT IS AT A PANEL POINT OF THE JOISTS.
2. AN ADDITIONAL STRUT IS NOT REQUIRED IF 'X' OR 'Y' IS LESS THAN OR EQUAL TO 6".
3. CONCENTRATED LOADS GREATER THAN 250 LBS. WHICH ARE NOT SPECIFIED ON THE PLANS, ARE NOT PERMITTED WITHOUT REVIEW BY THE PROFESSIONAL - OF - RECORD.

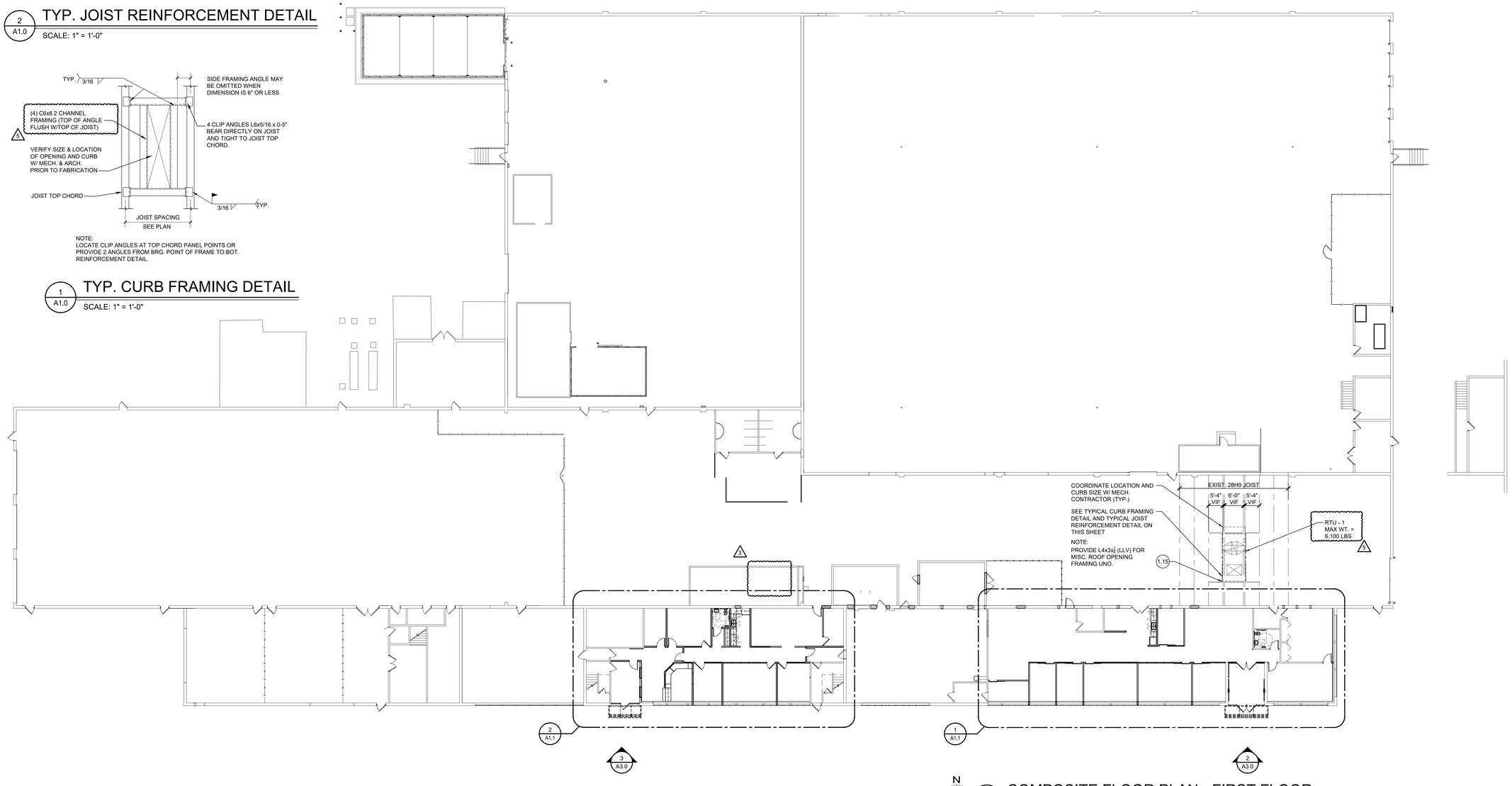
2 / A1.0 TYP. JOIST REINFORCEMENT DETAIL

SCALE: 1" = 1'-0"

NOTE:
LOCATE CLIP ANGLES AT TOP CHORD PANEL POINTS OR PROVIDE 2 ANGLES FROM BRG. POINT OF FRAME TO BOT. REINFORCEMENT DETAIL.

1 / A1.0 TYP. CURB FRAMING DETAIL

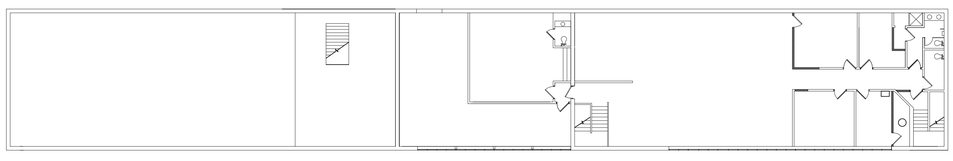
SCALE: 1" = 1'-0"



N

2 / A1.0 COMPOSITE FLOOR PLAN - FIRST FLOOR

SCALE: 1/16" = 1'-0"



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2 / A1.0 COMPOSITE FLOOR PLAN - SECOND FLOOR

SCALE: 1/16" = 1'-0"

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COMPOSITE PLANS

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DRAWN BY DCW/NL
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SHEET NO.
A1.0

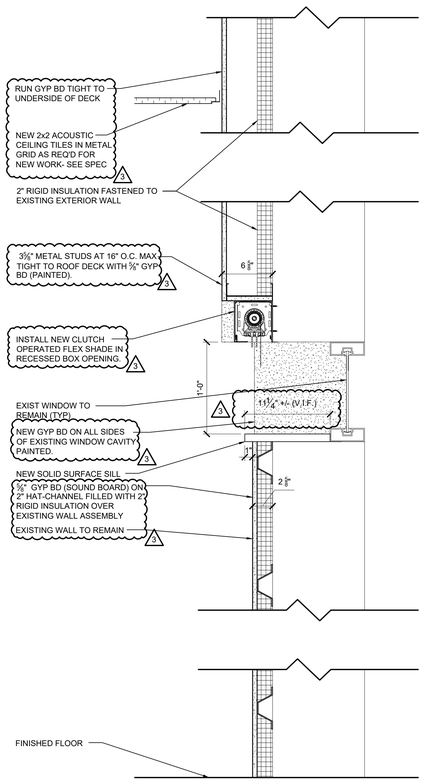
JOB NO. 242053

NEW WORK KEYNOTES:

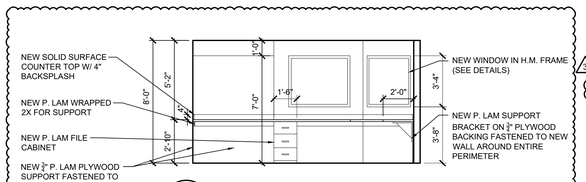
SEE SHEET G3.0 FOR ALL KEYNOTES.

GENERAL TOILET ROOM NOTES

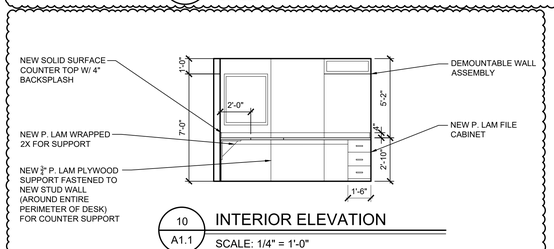
1. ALL WALLS TO BE PAINTED WITH EPOXY PAINT IN ALL TOILET ROOMS.
2. PROVIDE NEW FLOOR TRANSITIONS BETWEEN ALL DISSIMILAR MATERIALS. REFER TO SPECIFICATIONS.
3. PROVIDE ALL NEW TOILET ROOM ACCESSORIES AS SHOWN ON PLAN AND IN THE ACCESSORIES LEGEND.



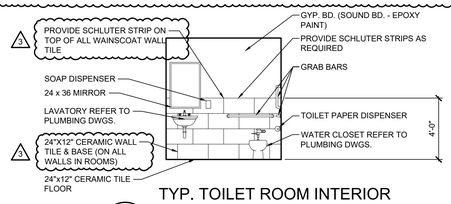
12 A1.1 **WINDOW HEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



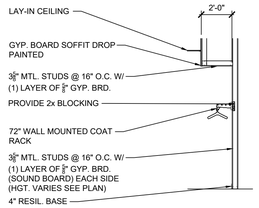
11 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



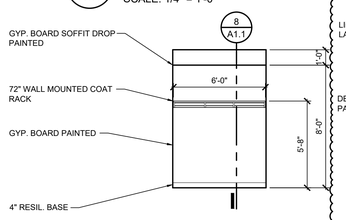
10 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



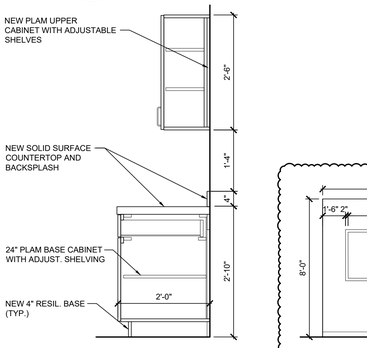
9 A1.1 **TYP. TOILET ROOM INTERIOR ELEVATION (A113 & B117)**
SCALE: 1/4" = 1'-0"



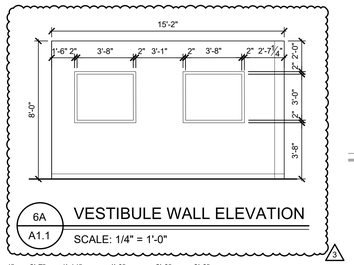
8 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



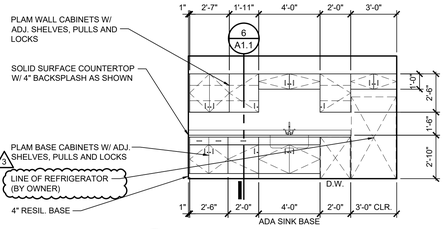
7 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



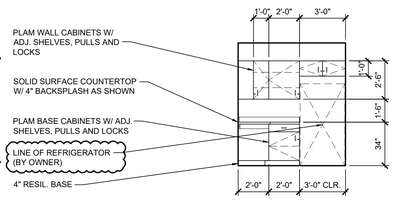
6 A1.1 **SECTION DETAIL**
SCALE: 3/4" = 1'-0"



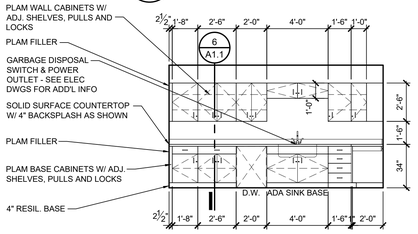
6A A1.1 **VESTIBULE WALL ELEVATION**
SCALE: 1/4" = 1'-0"



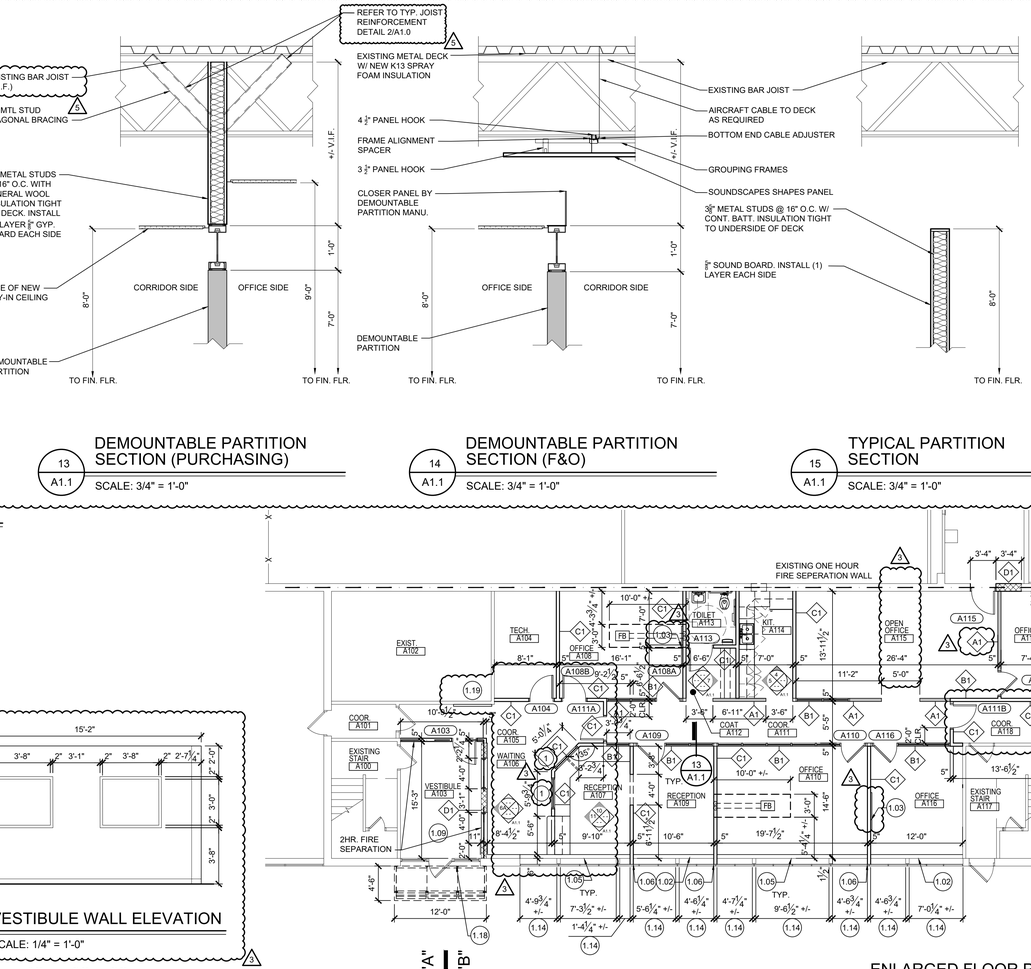
5 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



4 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



3 A1.1 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"

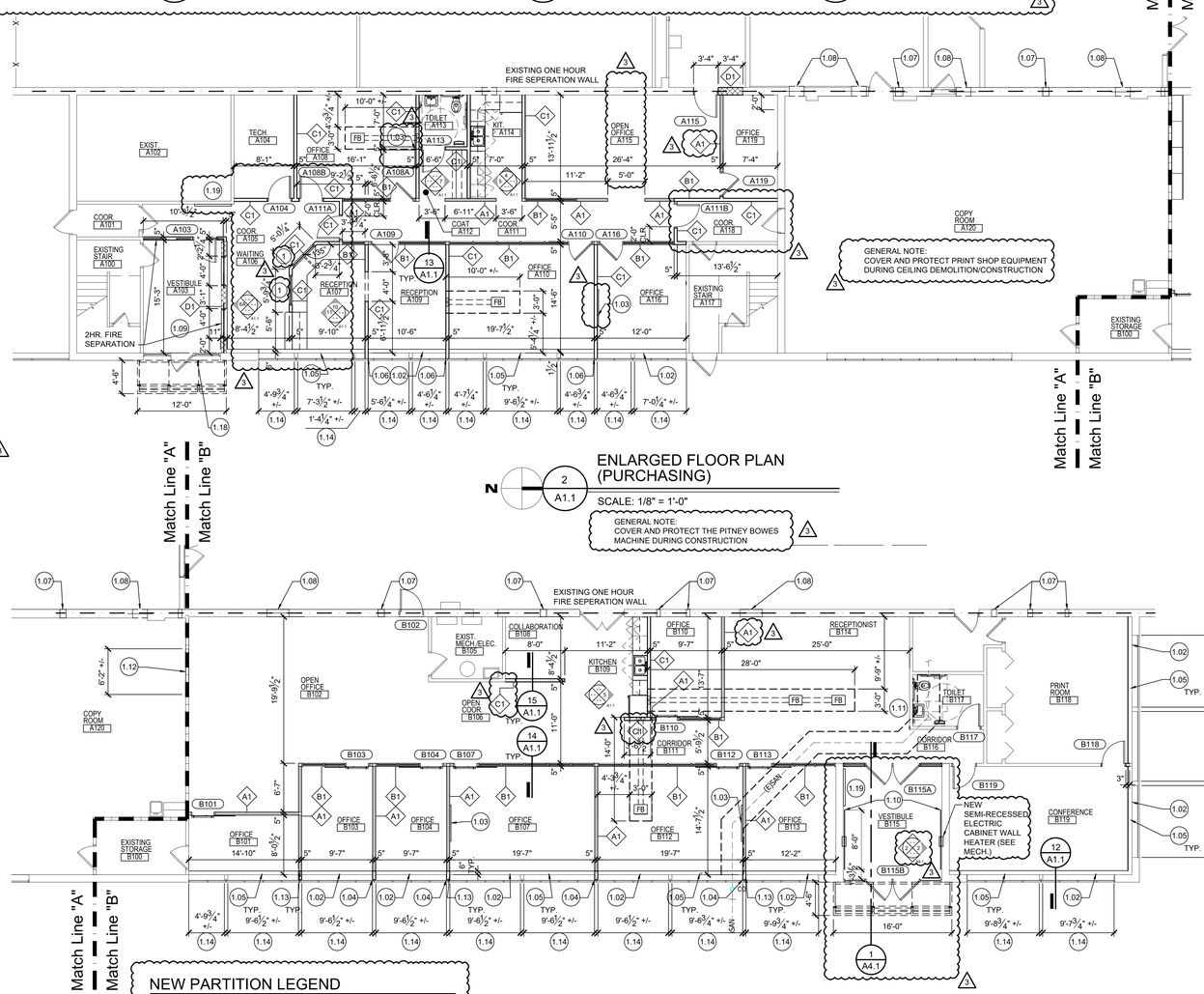


13 A1.1 **DEMOUNTABLE PARTITION SECTION (PURCHASING)**
SCALE: 3/4" = 1'-0"

14 A1.1 **DEMOUNTABLE PARTITION SECTION (F&O)**
SCALE: 3/4" = 1'-0"

15 A1.1 **TYPICAL PARTITION SECTION**
SCALE: 3/4" = 1'-0"

16 A1.1 **HARD HAT STORAGE**
SCALE: 3/4" = 1'-0"



2 A1.1 **ENLARGED FLOOR PLAN (PURCHASING)**
SCALE: 1/8" = 1'-0"

GENERAL NOTE: COVER AND PROTECT THE PITNEY BOWES MACHINE DURING CONSTRUCTION

1 A1.1 **ENLARGED FLOOR PLAN (F & O)**
SCALE: 1/8" = 1'-0"

NOTES:
1. IN ALL OPEN AREAS, (ENTIRE F&O AREA) PAINT ALL EXPOSED DECK WITH K13 INSULATION BETWEEN JOISTS AND AROUND STEEL. PAINT STRUCTURE, DUCTWORK, AND CONDUIT ETC. COMPLETE FOR A FINISHED PRODUCT.

NEW PARTITION LEGEND

NOTES:
1. ALL METAL STUD PARTITIONS IN OPEN AREA SHALL BE AT 8'-0" UNLESS OTHERWISE NOTED. DRYWALL AND FINISH ALL TOPS OF EXPOSED WALLS.
2. ALL METAL STUD PARTITIONS IN NON- OPEN AREAS SHALL BE TIGHT TO THE UNDERSIDE OF THE EXISTING DECK. STUFF OPEN FLUTES IN MINERAL WOOL INSULATION AND FIRE CAULK ALL PENETRATIONS.
3. DEMOUNTABLE PARTITIONS TO BE AT 8'-0" IN FACILITIES AND OPERATIONS AND PURCHASING.

A1 — DEMOUNTABLE PARTITION

B1 — DEMOUNTABLE PARTITION WITH 12" CLEARSTORY GLAZING (8'-0" F&O AND PURCHASING)

C1 — 3⅝" MTL. STUDS @ 16" O.C. W/ (1) LAYER OF ⅝" SOUND BOARD EACH SIDE (HGT. VARIES SEE PLAN) PROVIDE SOUND INSULATION FULL HGT. ALL NEW STUD WALLS IN PURCHASING AREA ARE TIGHT TO UNDERSIDE OF EXISTING STRUCTURE. F&O ARE AT 8'-0".

D1 — 12" CMU WITH HORIZONTAL REINFORCEMENT @16" O.C. DOWEL INTO EXISTING CONC. BLOCK WALL W/ #4 DOWEL (MIN 16" EMBED) (TIGHT TO UNDERSIDE OF DECK) STUFF OPEN DECK FLUTES WITH MINERAL WOOL AND FIRE SPRAY. FIRE CAULK ALL PENETRATIONS.

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VIC WERTZ BUILDING

ENLARGED FLOOR PLANS -

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY DCW/NL
CHECKED BY RS/DCW

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SHEET NO.
A1.1

JOB NO. 242053

NEW WORK KEYNOTES:

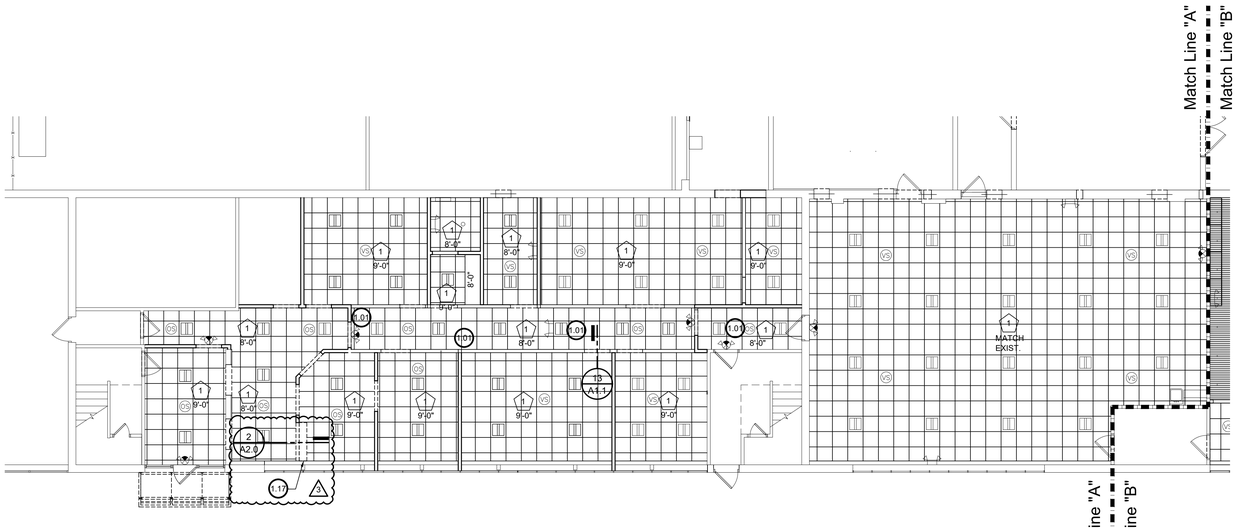
SEE SHEET G3.0 FOR ALL KEYNOTES.

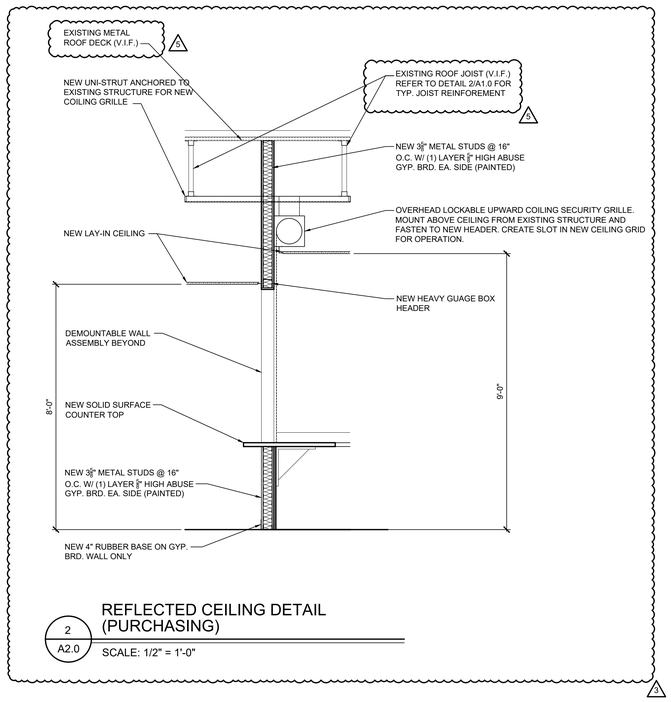
REFLECTED CEILING PLAN KEYNOTES

1. NEW 24" x 24" ACOUSTICAL CEILING GRID AND TILE. REFER TO SPECS.
2. NEW WOOD AND WOOD LOOK CEILING BY ARMSTRONG. SUSPENDED FROM EXISTING STRUCTURE.
3. SOUNDSCAPES-SHAPES DESIGN CEILING BY ARMSTRONG. FASTENED TO TO UNDER SIDE OF JOIST. IF HANG POINTS SECURED TO UNDE SIDE OTHE DECK ARE DEEMED NECESSARY COORDINATE LOCATION AND IINSTALLATION WITH APPLICATION OF K13 (USE "GROUPING FRAME SYSTEM FOR AS REQUIRED FOR LARGE CLOUDS)

REFLECTED CEILING LEGEND

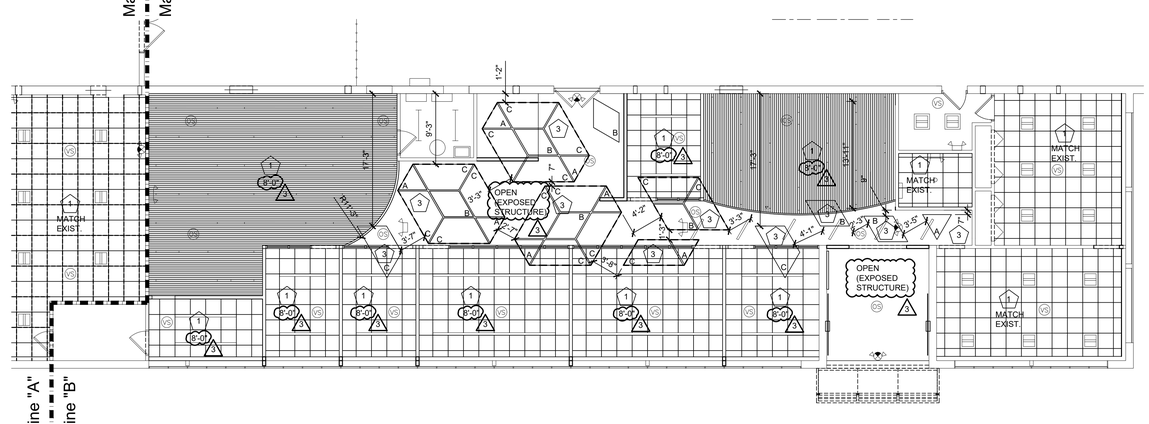
- A — SOUNDSCAPES-SHAPES DESIGN CEILING - 60 DEGREE TRIANGLE
- B — SOUNDSCAPES-SHAPES DESIGN CEILING - 60 DEGREE PARALLELOGRAM
- C — SOUNDSCAPES-SHAPES DESIGN CEILING - 60 DEGREE TRAPAZOID
- SOUNDSCAPES-SHAPES DESIGN CEILING PANEL GROUPED WITH GROUPING FRAME ASSEMBLY





2 / A2.0 — REFLECTED CEILING DETAIL (PURCHASING)

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



N — 2 / A2.0 — ENLARGED REFLECTED CEILING PLAN (PURCHASING)

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

N — 1 / A2.0 — ENLARGED REFLECTED CEILING PLAN (F & O)

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

NOTES:

1. IN ALL OPEN AREAS, (ENTIRE F&O AREA) PAINT ALL EXPOSED DECK WITH K13 INSULATION BETWEEN JOISTS AND AROUND STEEL. PAINT STRUCTURE, DUCTWORK, AND CONDUIT ETC. COMPLETE FOR A FINISHED PRODUCT.

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REFLECTED CEILING PLAN

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	■
FINAL RECORD	☐

DRAWN BY DCW/NL
CHECKED BY RS/DCW

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3 ADDENDUM No. 1 11-7-2024
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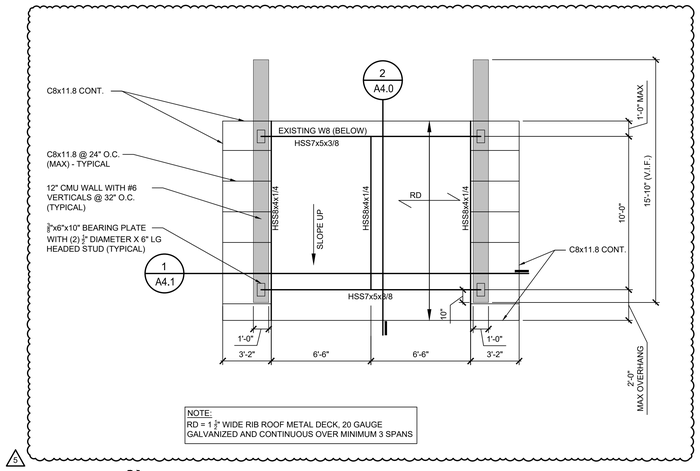
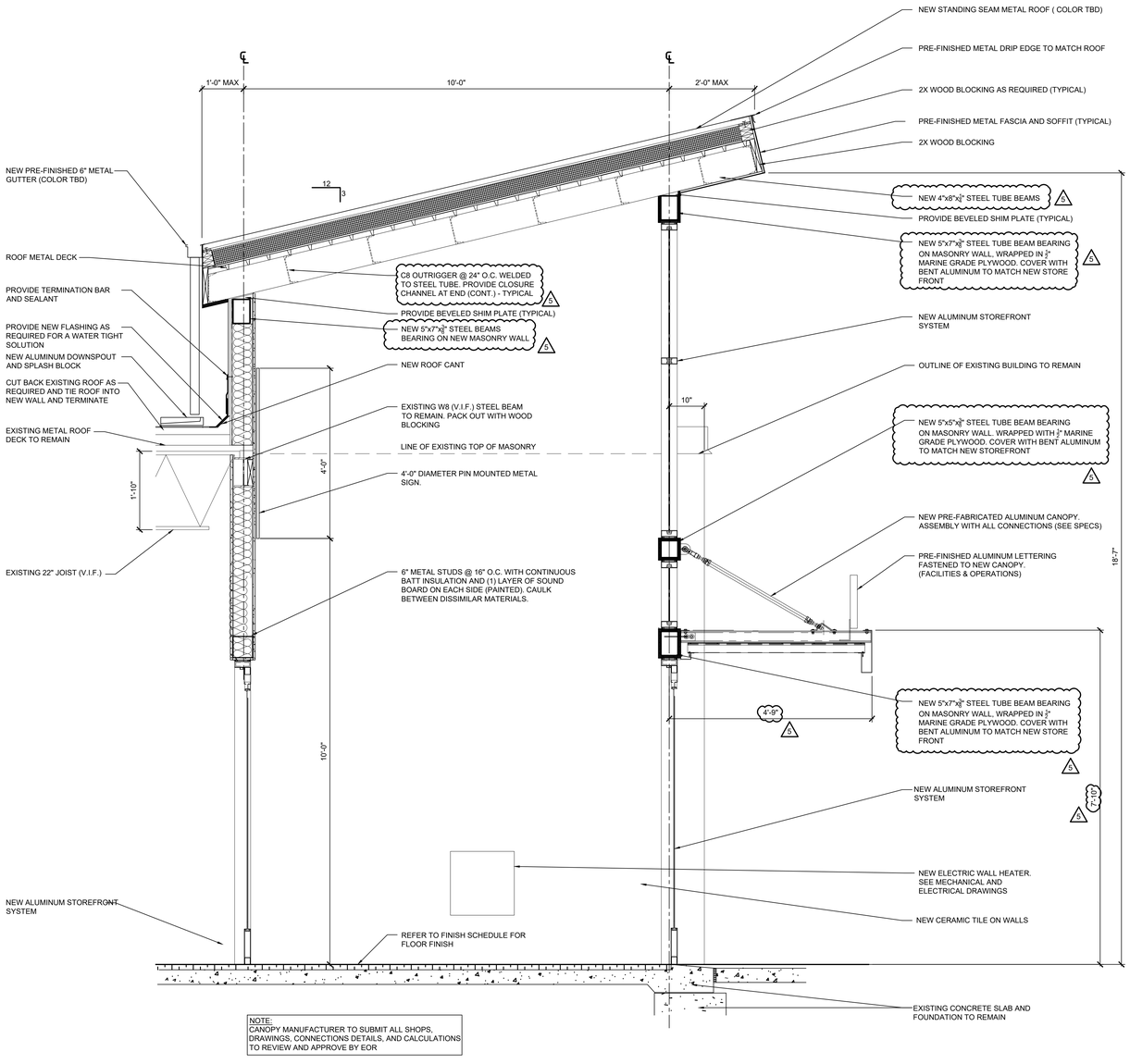


5

N

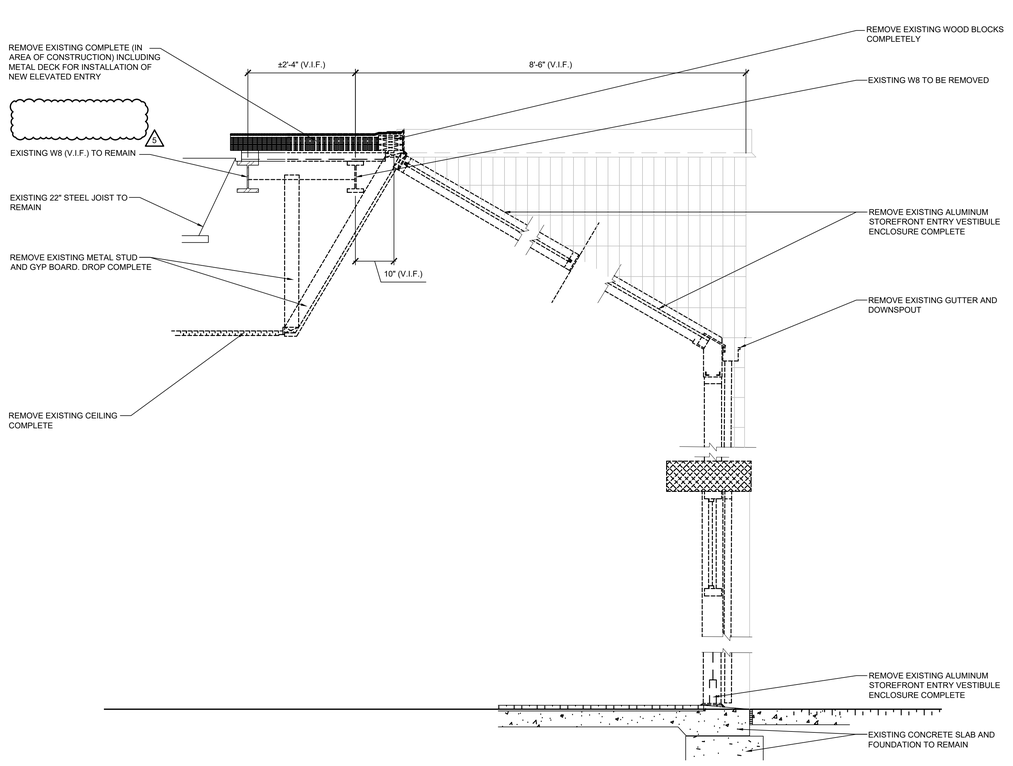
3 A4.0 VESTIBULE PARTIAL ROOF FRAMING PLAN

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



2 A4.0 SECTION @ NEW ENTRY OPTION 01

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



1 A4.0 EXISTING SECTION

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

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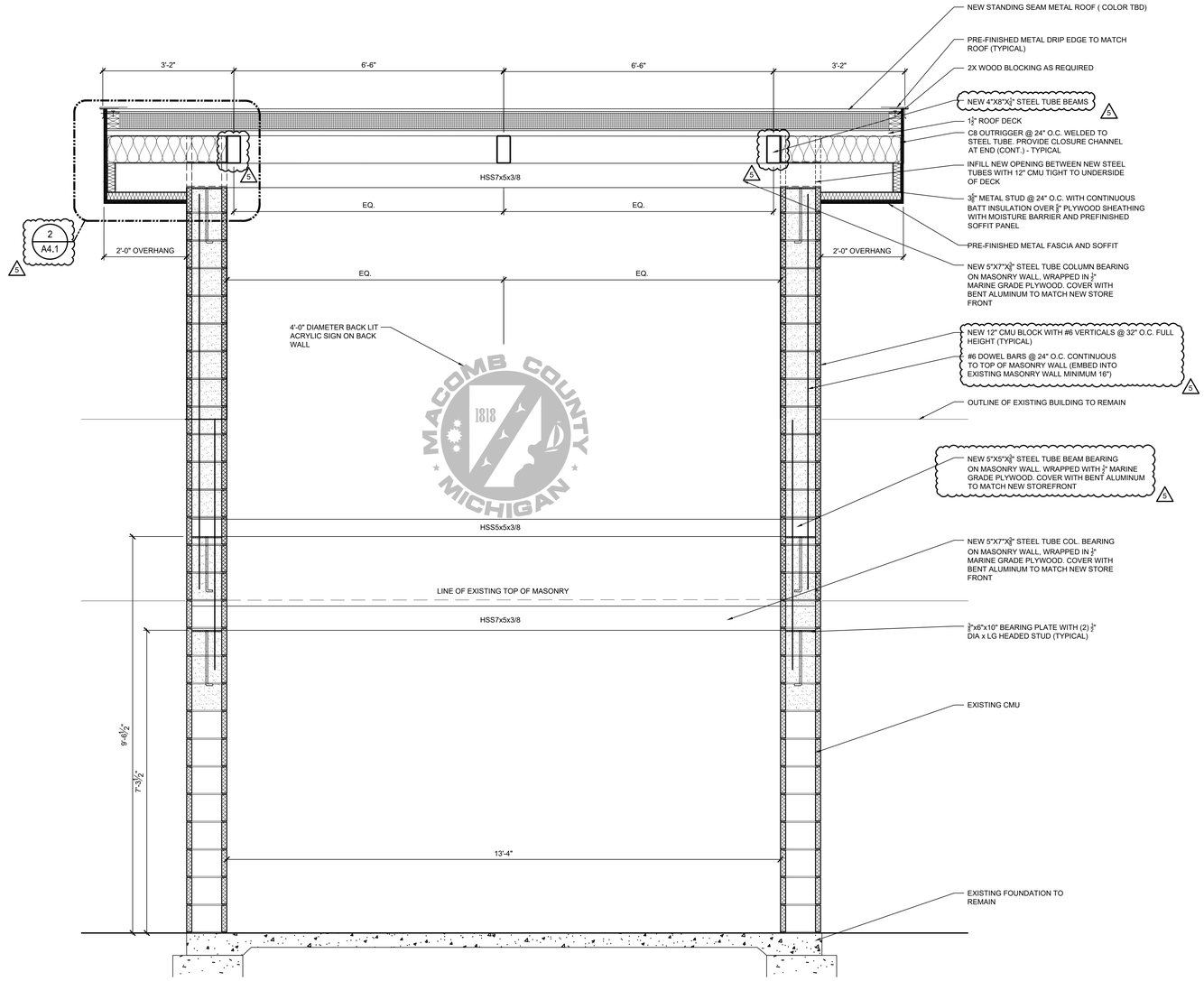
A4.0

JOB NO. 242053

2 A4.1 TYPICAL F&O OUTRIGGER DETAIL

SCALE: 3" = 1'-0"



1 A4.1 NEW WORK SECTION @ F&O ENTRANCE

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

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MASONRY NOTES

1. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530-13 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530.1-13 - SPECIFICATION FOR MASONRY STRUCTURES, AND NCMA SPECIFICATIONS.
2. LOAD BEARING CONCRETE MASONRY SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT WITH NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 1900 PSI (MIN).
3. MORTAR SHALL BE TYPE N OR S AND CONFORM TO ASTM C270 AND NCMA TEK NOTES 9-1 OR 9-2. NET AREA COMPRESSIVE STRENGTH OF MASONRY (f'm) = 1500 PSI (MIN).
4. MASONRY GROUT SHALL CONFORM TO ASTM C 476 WITH PEA GRAVEL AGGREGATE AND A MINIMUM STRENGTH OF 2000 PSI.
5. UNLESS OTHERWISE NOTED, PROVIDE HORIZONTAL WIRE TYPE REINFORCING WITH 9 GAUGE SIDE AND CROSS MEMBERS IN EVERY SECOND COURSE (16" O.C.), IN ALL MASONRY WALLS.
6. REINFORCING BARS, DOWELS AND TIES SHALL CONFORM TO ASTM A615, GRADE 60.
7. INSTALL 8" DEEP CONCRETE MASONRY LINTELS OVER OPENINGS 4'-0 WIDE OR LESS, OR AS INDICATED ON DRAWINGS. GROUT MASONRY LINTELS SOLID AND REINFORCE W/ 2-#5 BARS (BOTTOM). MAINTAIN MINIMUM 8 INCH BEARING ON EACH SIDE OF OPENING. SOLID GROUT WALL FOR BEARING LENGTH AND REINFORCE W/ 2-#5 VERTICAL BARS FULL HEIGHT.
8. INSTALL 16" DEEP CONCRETE MASONRY LINTELS OVER OPENINGS GREATER THAN 4'-0 WIDE, OR AS INDICATED ON DRAWINGS. GROUT MASONRY LINTELS SOLID AND REINFORCE W/ 2-#5 BARS (TOP & BOTTOM). MAINTAIN MINIMUM 16 INCH BEARING ON EACH SIDE OF OPENING. SOLID GROUT WALL FOR BEARING LENGTH AND REINFORCE W/ 4-#5 VERTICAL BARS FULL HEIGHT.
9. GROUT MASONRY LINTELS SOLID, REINFORCE W/ 2-#5 BARS (MINIMUM) AND MAINTAIN BEARING ON EACH SIDE OF OPENING AS INDICATED IN LINTEL SCHEDULE. SOLID GROUT WALL FOR BEARING LENGTH AND REINFORCE W/ 2-#5 VERTICAL BARS (MINIMUM EACH CELL) FULL HEIGHT.
10. ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.
11. UNLESS OTHERWISE NOTED, REINFORCE BOND BEAMS WITH 2-#5 BARS. REFER TO ARCHITECTURAL DRAWING FOR WALL SECTIONS.
12. USE "ACME SHIELD" INTEGRAL WATER REPELLENT FOR ALL EXTERIOR CONCRETE MASONRY AND MORTAR.

STRUCTURAL STEEL NOTES

1. DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:
   A. AISC STEEL CONSTRUCTION MANUAL (14TH EDITION) INCLUDING:
      1) AISC 360-10 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN
      2) AISC 348-09 - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (RCSC)
      3) AISC 303-10 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
   B. AISC 326-09 - DETAILING FOR STEEL CONSTRUCTION
   C. AWS D1.1-15 - STRUCTURAL WELDING CODE - STEEL
2. WIDE FLANGE SHAPES SHALL BE ASTM A992, Fy = 50,000 PSI.
3. MISCELLANEOUS SHAPES AND PLATE SHALL BE ASTM A36, Fy = 36,000 PSI.
4. HSS STEEL SHALL BE ASTM A500, GRADE B, Fy = 46,000 PSI.
5. ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55, Fy = 55,000 PSI.
6. COMPOSITE SHEAR STUDS SHALL BE NELSON "FLUXED SHEAR CONNECTOR STUDS" OR APPROVED SUBSTITUTE AND WELDED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. SHEAR STUDS SHALL BE EQUALLY SPACED ALONG THE LENGTH OF THE BEAM UNLESS NOTED OTHERWISE.
8. STEEL ELEVATIONS SHALL BE AS INDICATED ON PLANS AND DETAILS.
9. PRIOR TO FABRICATION THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL CONSIST OF TWO SETS OF BLACKLINE DRAWINGS (MIN).
10. INSTALL ASTM A325 BOLTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS, USING ONE HARDENED WASHER UNDER THE TURNED ELEMENT, AND AN IMPACT WRENCH TO ACHIEVE FIRM CONTACT BETWEEN CONNECTED PLIES AND A SNUG TIGHT CONDITION.
11. SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS. PERFORM ALL WELDING BY THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE AWS D1.1 STRUCTURAL WELDING CODE.
12. PERFORM WELDING WITH SPECIFIED ELECTRODES AND QUALIFIED WELDERS, WELDING OPERATORS, AND TACKERS AS APPROPRIATE, PER SPECIFIED REFERENCE STANDARDS. PROVIDE NECESSARY JIGS AND HOLDING DEVICES FOR SHOP WELDING. CONTROL WELDING SEQUENCE TO MINIMIZE RESIDUAL STRESSES AND MEMBER DISTORTION.
13. MAKE BOLTED CONNECTIONS WITH 3/4 INCH DIAMETER ASTM A325N BEARING TYPE BOLTS (WITH THREADS ASSUMED IN THE SHEAR PLANE) UNLESS OTHERWISE NOTED.
14. CONNECTIONS SHALL BE A MINIMUM OF TWO 3/4 INCH DIAMETER ASTM A325N BOLTS OR A WELD DEVELOPING A MINIMUM OF 10 KIPS.
15. SUBMIT DRAWINGS AND CALCULATIONS OF TYPICAL CONNECTION DETAILS FOR APPROVAL PRIOR TO PROCEEDING WITH DETAILING.
16. FURNISH MEMBERS OF PROPER LENGTH AND ASSEMBLE WITHOUT EXCESSIVE USE OF FILLERS - FIELD VERIFY DIMENSIONS BEFORE FABRICATION WHEN CONNECTING TO EXISTING STRUCTURE. JOIN AND ASSEMBLE MEMBERS WITHOUT SHARP PROJECTIONS, SERRATED EDGES, SHARP EDGES OR SHARP CORNERS AT JOINTS. COPE, BLOCK, MITER AND GRIND EDGES WITH CARE. FURNISH MEMBERS FREE FROM TWISTS, BENDS, DISTORTIONS AND OPEN JOINTS.
17. ANCHOR BOLTS AND SETTING PLANS SHALL BE FURNISHED BY THE STRUCTURAL STEEL FABRICATOR AND SET BY THE FOUNDATION CONTRACTOR.
18. ALL WELDED CONNECTIONS SHALL BE VISUALLY INSPECTED, WITH 15% MEASURED AT RANDOM. VISUALLY INSPECT THAT ALL BOLTED CONNECTIONS ARE PROPERLY FABRICATED, WITH PROPER COMPONENTS, AND THE JOINT IS DRAWN INTO FIRM CONTACT.
19. ELEVATIONS ARE REFERENCED FROM FINISH FLOOR ELEVATION = 100'-0". ACTUAL FINISH FLOOR ELEVATION 936.19 = 100'-0".
20. THE USE OF A GAS-CUTTING TORCH IN THE FIELD FOR CUTTING HOLES OR FOR CORRECTING FABRICATION ERRORS WILL NOT BE PERMITTED ON STRUCTURAL FRAMING MEMBERS EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER FOR EACH SPECIFIC CONDITION.
21. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER SUCH AS "TNEMEC PRIMER 10-99" OR APPROVED EQUIVALENT. ALL STEEL SHALL BE PAINTED IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. PRIOR TO PAINTING, ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP3. REMOVE LOOSE RUST, LOOSE MILL SCALE AND SPLATTER SLAG OR FLUX DEPOSITS. ALL PAINTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
22. SHOP PRIME AND PAINT STRUCTURAL STEEL. FIELD TOUCH-UP FINISH COAT AFTER ERECTION.
23. STEEL EXPOSED TO WEATHER SHALL BE CLEANED PER SSPC-SP6 AND HOT DIP GALVANIZED.
24. REFERENCE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS SHAPES AND PLATES NOT SHOWN ON THE STRUCTURAL DRAWINGS. THESE ITEMS SHALL BE SHOP WELDED TO THE STRUCTURAL FRAMING TO MINIMIZE FIELD WELDING.
25. ROOF OPENINGS SHALL BE FRAMED WITH L4X3X1/4 LLV, UNLESS NOTED OTHERWISE. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE TRADES INVOLVED.

REINFORCED CONCRETE AND FOUNDATION NOTES

1. CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301-16 - SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, AND ACI 302.1R-15 - GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION.
2. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN COMPLIANCE WITH ACI 315-99 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT, AND THE CRSI - MANUAL OF STANDARD PRACTICE (28TH EDITION). SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR THE ENGINEER'S REVIEW. SUBMITTAL SHALL INCLUDE TWO (2) BLACKLINES (MINIMUM).
3. CONCRETE USED IN SLAB ON GROUND SHALL BE NORMAL WEIGHT CONCRETE AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CEMENT SHALL COMPLY WITH ASTM C150, TYPE I. MINIMUM CEMENT CONTENT SHALL BE 611 POUNDS PER CUBIC YARD.
4. CONCRETE USED IN BUILDING FOUNDATIONS, AND ALL OTHER CONCRETE UNLESS NOTED OTHERWISE, SHALL BE NORMAL WEIGHT CONCRETE AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CEMENT SHALL COMPLY WITH ASTM C150, TYPE I. MINIMUM CEMENT CONTENT SHALL BE 517 POUNDS PER CUBIC YARD.
5. SUBMIT CONCRETE MIX DESIGNS FOR EACH CONCRETE MIX FOR THE ENGINEER'S REVIEW. SUBMITTAL SHALL INCLUDE, AT A MINIMUM, MIX PROPORTIONS, CEMENT TYPE AND SOURCE, AGGREGATE GRADATIONS AND SOURCE, AGGREGATE ASR COMPATIBILITY TEST RESULTS, ADMIXTURE CATALOG INFORMATION, CYLINDER STRENGTH TEST RESULTS ON SPECIMENS FOR IDENTICAL MIX DESIGN, OR OTHER PROOF OF STRENGTH PER ACI 301.
6. CONCRETE AGGREGATES SHALL COMPLY WITH ASTM C33 AND SHALL BE FREE OF CLAY, LOAM, LUMPS OR OTHER DELETERIOUS SUBSTANCES.
7. REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 OR ASTM A616 (GRADE 60) AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI.
8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, BE FURNISHED IN FLAT SHEETS, AND HAVE MINIMUM SIDE AND END LAP OF 8 INCHES.
9. FIBER REINFORCING IN SLAB ON GROUND SHALL BE TUF-STRAND SF, AS MANUFACTURED BY 'EUCLID CHEMICAL', OR APPROVED SUBSTITUTE, UNLESS OTHERWISE NOTED. DOSAGE SHALL BE 1.5 LBS PER CUBIC YARD.
10. EXTERIOR CONCRETE, PERIMETER FOUNDATIONS AND INTERIOR CONCRETE SUBJECTED TO FREEZE/THAW CYCLES SHALL BE AIR ENTRAINED WITH 6% AVERAGE AIR CONTENT WITH A 1% TOLERANCE. AIR ENTRAINMENT SHALL COMPLY WITH ASTM C260.
11. REINFORCING SHALL HAVE EITHER TENSION EMBEDMENT OR TENSION CLASS "B" LAP SPLICE UNLESS OTHERWISE NOTED.
12. PROVIDE HORIZONTAL BENT BARS AT CORNERS AND INTERSECTIONS OF CONCRETE WALLS, TRENCH FOOTINGS AND STRIP FOOTINGS USING THE SAME SIZE AND SPACING AS FOR THE HORIZONTAL REINFORCING DETAILED UNLESS OTHERWISE NOTED.
13. PROVIDE SMOOTH FORMED FINISH ON EXPOSED CONCRETE WALLS AND FOUNDATIONS.
14. PROVIDE 3/4" X 3/4" BEVELED EDGES AT CORNERS OF EXPOSED CONCRETE MEMBERS, UNLESS NOTED OTHERWISE.
15. CONSTRUCTION JOINTS SHALL HAVE A FORMED KEY CENTERED ON MEMBER. WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY SHALL BE ONE FOURTH OF THE CROSS SECTION MEMBER AND MINIMUM 1 ½ INCHES INTO THE FIRST POUR OF CONCRETE.
16. DO NOT PROCEED WITH DETAILING, FABRICATION, OR CONSTRUCTION OF ANY WORK CONNECTED WITH OR DEPENDENT ON EQUIPMENT FURNISHED BY OWNER OR OTHER CONTRACTORS UNTIL DIMENSIONS AND DETAILS ARE VERIFIED WITH CERTIFIED OR APPROVED EQUIPMENT DRAWINGS.
17. BEFORE PLACING CONCRETE, REFER TO OTHER TRADE DRAWINGS AND COORDINATE THE LOCATION AND SIZE OF ITEMS SUCH AS OPENINGS, SLEEVES, EQUIPMENT PADS, PIPING, CONDUIT, DRAINS, DEPRESSED FLOORS, DOOR HOLDDOWNS IN GRADE WALLS, EMBEDDED ITEMS, ETC.
18. DRILL-IN ANCHOR BOLTS SHALL BE HVA ADHESIVE ANCHORING SYSTEM AS MANUFACTURED BY HILTI. ANCHOR BOLTS SHALL BE 304 STAINLESS STEEL.
19. NON-SHRINK GROUT SHALL BE SURE GRIP HIGH PERFORMANCE GROUT, OR APPROVED EQUAL, AS MANUFACTURED BY DAYTON SUPERIOR CORPORATION.
20. CONCRETE CONSTRUCTION SHALL INCLUDE PROVISIONS FOR COLD WEATHER CONCRETING, IN COMPLIANCE WITH ACI 306R-10 - GUIDE TO COLD WEATHER CONCRETING, AND PROVISIONS FOR HOT WEATHER CONCRETING, IN COMPLIANCE WITH ACI 305R-10 - GUIDE TO HOT WEATHER CONCRETING.
21. CONCRETE FORMS SHALL REMAIN IN PLACE A MIN. OF 48 HOURS OR UNTIL THE CONCRETE HAS ATTAINED 75 PERCENT OF ITS DESIGN STRENGTH.
22. CONCRETE SHALL ATTAIN ITS 28 DAY DESIGN STRENGTH BEFORE COMMENCING WITH BACK FILLING OPERATIONS.
23. CONTROL OR CONSTRUCTION JOINTS, REQUIRED BY THE CONTRACTOR, IN ADDITION TO THE JOINTS SHOWN ON THE DRAWINGS, SHALL BE SUBJECT TO THE REVIEW OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A PLAN OF THE PROPOSED JOINTING BEFORE PROCEEDING WITH THE AFFECTED WORK.
24. PLACE TWO ADDITIONAL #5 BARS AROUND ALL OPENINGS LARGER THAN ONE FOOT SQUARE OR DIAMETER. EXTEND BARS A MINIMUM 24 INCHES BEYOND OPENINGS, UNLESS OTHERWISE NOTED.
25. SIDES OF FOUNDATIONS SHALL BE FORMED.
26. STRUCTURE BACKFILL SHALL CONSIST OF CLEAN, WELL GRADED GRANULAR SOILS, FREE OF ORGANIC MATERIAL, SILT AND CLAY. PLACE BACKFILL IN LAYERS, NOT MORE THAN 6 INCHES IN DEPTH, AND COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM UNIT WEIGHT, AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557) AND VERIFIED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN. PLACE BACKFILL ALTERNATING EACH FACE OF WALLS TO BALANCE PRESSURE TO WALLS.
27. FOUNDATIONS SHALL BEAR ON UNDISTURBED VIRGIN SOIL, FREE OF VEGETATION AND ORGANIC MATERIALS, WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF, VERIFIED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN.
28. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY A QUALIFIED TESTING AGENCY NOT LESS THAN ONCE PER DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARDS OF CONCRETE. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:

A. SLUMP - ASTM C143
B. AIR CONTENT - ASTM C173
C. COMPRESSIVE STRENGTH - ASTM C39 (WITH 1 CYLINDER AT 7 DAYS, 2 CYLINDERS AT 28 DAYS AND 1 CYLINDER HELD IN RESERVE)

SITE CONDITIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION.
2. THE CONTRACTOR SHALL COORDINATE HIS WORK ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OWNER'S OPERATION OF THE FACILITY.
3. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, BEFORE COMMENCING WITH SHOP DRAWING PREPARATION. REPORT EXISTING CONDITIONS WHICH DO NOT CONFORM WITH THE DETAILS PROVIDED BY THE ARCHITECT.

SPECIAL INSPECTION NOTES

SPECIAL INSPECTION NOTES

1. SPECIAL STRUCTURAL INSPECTIONS SHALL COMPLY WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE.
2. SPECIAL STRUCTURAL INSPECTION IS REQUIRED IN ADDITION TO ANY INSPECTIONS REQUIRED BY THE LOCAL BUILDING DEPARTMENT OR GOVERNING OFFICIAL.
3. SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED ON, BUT ARE NOT LIMITED TO, THE FOLLOWING ITEMS:
4. STRUCTURAL WELDING: PER SECTION 1705.2.2.1.
   A. ALL WELDING INSPECTIONS SHALL BE COMPLETED BY AN AWS CERTIFIED INSPECTOR.
   B. ALL WELDS SHALL BE VISUALLY INSPECTED. 100% OF ALL GROOVE WELDS SHALL RECEIVE RADIOGRAPHIC OR ULTRASONIC TESTING. MAGNETIC PARTICLE TEST 20% OF ALL FILLET WELDS.
   C. NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
   D. VERIFICATION OF CURRENT WELDER'S CERTIFICATION.
   E. WELD INSPECTION OF SHOP FABRICATIONS.
5. HIGH STRENGTH BOLTING: PER SECTION 1705.2.1
   A. VERIFICATION OF SNUG TIGHT OR SLIP-CRITICAL INSTALLATION AS PER PLANS.
   B. VERIFICATION IN PLANS WHERE/IF A325-X BOLTS ARE REQUIRED.
6. CONCRETE: PER SECTION 1705.3
   A. DURING THE TAKING OF TEST SPECIMENS.
   B. DURING THE PLACEMENT OF REINFORCED CONCRETE.
   C. POSITION OF ALL REINFORCING STEEL, ANCHOR BOLTS, AND EMBED PLATES PRIOR TO AND DURING THE PLACEMENT OF THE CONCRETE.
   D. ERECTION OF PRECAST CONCRETE MEMBERS.
7. STRUCTURAL MASONRY: PER SECTION 1705.4
   A. SPECIAL INSPECTION SHALL BE PERFORMED ON ALL STRUCTURAL MASONRY IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 530.1.
   B. DURING THE PREPARATION OF PRISMS.
   C. DURING THE PLACEMENT OF MASONRY UNITS.
   D. DURING THE PLACEMENT OF REINFORCING STEEL AND STEEL EMBEDS.
   E. IMMEDIATELY PRIOR TO THE CLOSING OF ALL CLEANOUTS.
   F. ALL CELLS TO BE GROUTED SHALL BE INSPECTED PRIOR TO GROUT PLACEMENT TO INSURE THE GROUT CELLS ARE FREE OF EXCESS MORTAR AND CONSTRUCTION DEBRIS.
8. EXPANSION, EPOXY AND ADHESIVE ANCHORS:
   A. DURING THE PLACEMENT OF ALL ANCHORS.
   B. ALL ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND APPLICABLE ICBO REPORTS.
9. SOILS: PER SECTION 1705.6
   A. VERIFICATION OF ADEQUATE DESIGN BEARING CAPACITY.
   B. DURING THE PLACEMENT OF COMPACTED FILL MATERIALS.
   C. TESTING OF COMPACTED FILL MATERIALS.
10. DUTIES AND RESPONSIBILITIES OF THE SPECIAL STRUCTURAL INSPECTOR:
    A. THE SPECIAL STRUCTURAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
    B. THE SPECIAL STRUCTURAL INSPECTOR SHALL REPORT TO THE CONTRACTOR UPON ARRIVING ON SITE TO DETERMINE WHETHER ANY DESIGN TEAM COMMUNICATIONS TO THE CONTRACTOR AFFECT THE WORK TO BE REVIEWED. THE SPECIAL STRUCTURAL INSPECTOR SHALL LEAVE A COPY OF EACH OF HIS REPORTS WITH THE CONTRACTOR UPON LEAVING SITE.
    C. THE SPECIAL STRUCTURAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS WITHIN 24 HOURS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
    D. THE SPECIAL STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO APPROVE ANY CHANGES TO THE CONTRACT DOCUMENTS. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND ENGINEER OR ARCHITECT OF RECORDS.
    E. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO ALL ITEMS REQUIRING SPECIAL STRUCTURAL INSPECTION. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, LADDERS, SCAFFOLDING, AND MAN LIFTS.
    F. THE SPECIAL STRUCTURAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

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MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

GENERAL STRUCTURAL NOTES

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	■
FINAL RECORD	☐

DRAWN BY DCW/NL
CHECKED BY RS/DCW

REVISIONS

	ADDENDUM No. 1	11-7-2024
	ADDENDUM No. 2	11-11-2024
3	ADDENDUM No. 3	11-14-2024
5	ADDENDUM No. 5	11-18-2024

DATE: OCTOBER 31, 2024

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