ROOF REPLACEMENT, HOUSING UNIT 4
MO STATE PENITENTIARY
JEFFERSON CITY, MISSOURI

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT
DESIGN AND CONSTRUCTION

DESIGN FOR: JEFFERSON CITY CONVENTION
AND VISITOR BUREAU

APPLICABLE CODES: 2018 INTERNATIONAL
BUILDING CODE

DESIGNER: CASCO Diversified Corporation

PROJECT NUMBER: O2113-01

ASSET NUMBER: 3101017018-MSP
HOUSING UNIT 04 (A HALL)

SHEET INDEX:
G001 COVER SHEET
D001 DEMOLITION PLAN
D010 DEMOLITION ELEVATIONS & SECTION
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A011 SECTIONS & DETAILS
S000 STRUCTURAL GENERAL NOTES
S200 STRUCTURAL ROOF FRAMING PLAN
S300 DETAILS

MICHAEL S. SUNDERMEYER
License Number: 2014026855
Expiration Date: 12/31/22

115 LAFAYETTE ST.
JEFFERSON CITY,
MISSOURI 65101
REMOVE EXISTING BRICK PARAPET/CORNICE TO EXISTING ORIGINAL STONE CORNICE

REMOVE EXISTING BRICK PARAPET/CORNICE TO EXISTING ORIGINAL STONE CORNICE

REMOVE EXISTING ROOF FLASHING FROM PREVIOUS ROOF

PROVIDE OPENING IN EXISTING SCUPPER OPENING FOR NEW ROOF DRAIN PIPE AND PREPARE FOR INSTALLATION OF NEW SCUPPER BOX AND DOWNSPOUT

REMOVE EXISTING GUTTER AND DOWNSPOUTS

REMOVE TOP COURSES OF STONE TO HEIGHT LEVEL WITH EXISTING TRUSSES. PREPARE FOR NEW CONCRETE BEAM (SEE SECTIONS & STRUCT. DWGS.)

EXISTING CEILING STRUCTURE TO REMAIN

EXISTING WOOD TRUSSES TO REMAIN, TYP.

1'-10"  2'-4"

8"

2'-3"
OPEN EXISTING SCUPPER OPENING AND PREPARE FOR INSTALLATION OF NEW DRAIN, SCUPPER COLLECTOR BOX AND DOWNSPOUT (TYP OF 5 EA. SIDE)

REMOVE EXISTING GUTTER AND DOWNSPOUTS (TYP OF 4 EA. SIDE)

REMOVE EXISTING BRICK PARAPET/CORNICE TO EXISTING STONE PARAPET (TYP EA SIDE)

SOUTH DEMOLITION ELEVATION

NORTH DEMOLITION ELEVATION
GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL SAFETY PROVISIONS. TOGETHER WITH OSHA RULES, REGULATIONS, AND ANY OTHER APPLICABLE SAFETY RULES

2. FRAMING PLAN:

- 1/8" = 1'-0"
- SCALE: 1-A101
- FRAMING PLAN
- 60'-0"  211'-0"
- 15'-6"  29'-0"  15'-6"
- (104) TRUSSES AT 24" O.C.
- 1'-4"  1'-4"
- 13'-6"± TRUSSES
- 29'-0"± TRUSSES

ALL DIMENSIONS PROVIDED ARE APPROXIMATE & SHOULD BE VERIFIED IN THE FIELD.

NEW WOOD TRUSSES @ 24" OC OVER ATRIUM (SEE 7/A201)

NEW 2X WOOD RAFTERS @ 24" OC - SEE STRUCT.

NEW ROOF HATCH & LADDER EXISTING STAIRWELL WALL BELOW

EXISTING STAIRWELL WALL BELOW

REPLACE MISSING TRUSS BELOW NEW ROOF TRUSSES TO MATCH EXISTING TRUSSES (PAINT TO MATCH)

1. THE USE OF THESE DOCUMENTS IS RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED. REUSE OR REPRODUCTION OF THE DOCUMENTS, (WHOLE OR IN PART) FOR ANY OTHER PURPOSE IS PROHIBITED.

2. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL SAFETY PROVISIONS. TOGETHER WITH OSHA RULES, REGULATIONS, AND ANY OTHER APPLICABLE SAFETY RULES

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SCHEDULING AND MONITORING OF ON-SITE TESTING AND INSPECTION SERVICE.

4. WHEN CONTRACTOR ACCEPTS DELIVERY OF ALL ITEMS NOTED ON PLANS EITHER IN CONTRACT OR NOT IN CONTRACT HE SHALL BE RESPONSIBLE FOR LOSS AND/OR DAMAGE TO THESE ITEMS.

5. ALL FASTENERS, CONNECTORS, OR OTHER HARDWARE IN DIRECT CONTACT WITH PRESERVATIVE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316, OR HOT-DIPPED GALVANIZED STEEL ASTM A653, CLASS G-185 WITH 1.85 OUNCES OF ZINC PER SQUARE FOOT TO REDUCE THE CORROSION PROCESS.

6. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT NOTIFY THE ARCHITECT. FLOOR PLAN BY ARCHITECT SUPERSEDES ALL OTHER PLANS. ALL DIMENSIONS MARKED “CLEAR” SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES.

7. ALL DIMENSIONS SHOWN ARE TO FACE OF MASONRY (BLOCK OR BRICK), CONCRETE WALL PANEL OR FACE OF WALLBOARD UNLESS SPECIFICALLY NOTED OTHERWISE.

8. ALL INCOMING UTILITIES, ETC. GENERAL CONTRACTOR IS TO REPORT IMMEDIATELY TO THE ARCHITECT ANY VARIANCES OR FIELD CONDITIONS THAT MAY CAUSE CONSTRUCTION PROBLEMS PRIOR TO COMMENCING WORK.

9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT NOTIFY THE ARCHITECT. FLOOR PLAN BY ARCHITECT SUPERSEDES ALL OTHER PLANS. ALL DIMENSIONS MARKED “CLEAR” SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES.

10. THE CONTRACTOR SHALL MAINTAIN FOR THE ENTIRE DURATION OF THE WORK ALL EXITS, IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

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12. THE GENERAL CONTRACTOR SHALL PROVIDE ALL REQUIRED PERMITS, FEES, AND INSPECTIONS AS MAY BE REQUIRED BY GOVERNING BODIES HAVING LEGAL JURISDICTION.

13. THE GENERAL CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS WITH THE DRAWINGS. IN PARTICULAR: OVERALL WALL DIMENSIONS, SOIL CONDITIONS, INCOMING UTILITIES, ETC. GENERAL CONTRACTOR IS TO REPORT IMMEDIATELY TO THE ARCHITECT ANY VARIANCES OR FIELD CONDITIONS THAT MAY CAUSE CONSTRUCTION PROBLEMS PRIOR TO COMMENCING WORK.

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EXISTING ORIGINAL STONE CORNICE

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OPEN EXISTING SCUPPER OPENING AND PREPARE FOR INSTALLATION OF NEW DRAIN, SCUPPER BOX AND DOWNSPOUT (TYP OF 5 EA. SIDE)

NEW CONCRETE CAST-IN-PLACE PARAPET CAP

NEW SCUPPER COLLECTOR BOX AND DOWNSPOUT AT EXISTING SCUPPER OPENING (TYP OF 5 EA. SIDE)

NEW ROOF DRAIN IN DRAIN PAN. DISCHARGE THROUGH EXISTING WALL OPENING INTO NEW SCUPPER COLLECTOR BOX (TYP OF 5 EA. SIDE)

NEW OVERFLOW ROOF DRAIN IN DRAIN PAN. DISCHARGE THROUGH WALL W/ DOWNSPOUT NOZZLE (TYP OF 5 EA. SIDE)

NEW TPO ROOF BEYOND

NEW CONCRETE SPLASHBLOCK AT DOWNSPOUT (TYP OF 5 EA. SIDE)

NEW CONCRETE SPLASHBLOCK AT DOWNSPOUT (TYP OF 5 EA. SIDE)

NEW CONCRETE SPLASHBLOCK AT DOWNSPOUT (TYP OF 5 EA. SIDE)
1. **DESIGN:**

   a. **SLUMP:** The slump of concrete prior to addition of a high-range water-reducing admixture shall not exceed 10".
   
   b. **PRE-MADE MIXED PROD:** The contractor shall submit concrete mix designs for review a minimum of one week prior to the placement of any concrete. The concrete mix designs shall include all strength data necessary to show compliance with the project specifications for either the trial batch or field experience.
   
   c. **MINIMUM CONCRETE COVER:** The minimum concrete clear cover over reinforcing steel, unless noted otherwise, shall be:
      
      - 3 1/2 in. for #3 or smaller bars
      - 4 in. for #7 or smaller bars
      - 4 1/2 in. for #11 or smaller bars
      - 5 1/2 in. for #5 or larger bars

   d. **COMPONENTS AND CLADDING ALLOWABLE (ASD):**
      
      - Windward: 43 kip
      - Snow: 20 PSF
      - Ground: 20 PSF
      - Load of 100 pounds applied directly to the bottom chord at any point along the roof sheathing

2. **METHODS:**

   a. **STABILIZATION MORTAR:** Mortar shall consist of portland cement, hydrated lime, and other ingredients to form a mortar which will provide the strength, durability, and workability necessary to satisfy the requirements of the project specifications.
   
   b. **CONCRETE REINFORCEMENT:** Reinforcement embedded with adhesive (as specified on the drawings) shall be used for concrete reinforcement. The contractor shall use the recommendations of the manufacturer.
   
   c. **CONCRETE CURING:** The contractor shall cure the concrete in accordance with any curing methods shown on the drawings. The curing of the concrete shall be continued through the period of the requirement for the minimum water content specified.

3. **PLACEMENT:**

   a. **ALL LAP SPLICES:** All lap spllices shall be in accordance with the following table, unless noted otherwise. Where laps are not called out, laps shall include:
      
      - #7 bars, 28 in.
      - #5 bars, 33 in.
      - #3 bars, 43 in.

   b. **MINIMUM CONCRETE CLEAR COVER OVER REINFORCING STEEL:** Unless noted otherwise, the minimum concrete clear cover over reinforcing steel shall be:
      
      - 3 1/2 in. for #3 or smaller bars
      - 4 in. for #7 or smaller bars
      - 4 1/2 in. for #11 or smaller bars
      - 5 1/2 in. for #5 or larger bars

4. **INTERIM:**

   a. **INSPECTION OF REINFORCING STEEL:**
      
      - 1. Installation Procedure of Adhesive Anchors or Adhesive Anchors
      - 2. The special inspector shall furnish inspection reports to the building official, the professional of record, and the contractor.
      - 3. The contractor shall keep a record of the inspections and shall also keep a record of the inspections and shall also keep a record of the inspections.
      - 4. The special inspector shall keep a final issued report to the owner or the owner's representative for the structure.

5. **RESOURCES:**

   a. **CONCRETE PROPERTY:**
      
      - Portland cement
      - Water
      - Reinforcing steel
      - Adhesive
      - Molds
      - Tools
      - Equipment

6. **DATA:**

   a. **SYMBOLS TO BE USED:**
      
      - W:风荷载
      - W:风荷载
      - W:风荷载
      - W:风荷载
      - W:风荷载
      - W:风荷载
EXISTING ROOF FRAMING PLAN

EXISTING ROOF FRAMING PLAN

TRUSS PROFILE

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

1. SEE SHEET S100 FOR GENERAL NOTES, DESIGN LOADS FOR ROOF FRAMING, AND SPECIAL INSPECTION NOTES.

2. REFER TO ROOF UPLIFT KEY PLAN FOR THE FOLLOWING DESIGN NET UPLIFT PRESSURES (ASD):
   - WOOD ROOF TRUSSES
     ZONE 2: 40.9 PSF
     ZONE 3: 50.8 PSF
   - ROOFING AND ROOF SHEATHING
     ZONE 2: 48.6 PSF
     ZONE 3: 66.2 PSF

NEW TRUSS BELOW - MATCH ADJACENT EXISTING TRUSS PROFILES - DO NOT TREAT WITH PRESERVATIVES - PAINT TRUSS WHITE PER PROJECT SPECIFICATIONS

REPLACE SEAT ANGLE TO MATCH EXISTING WHERE REQUIRED
#4 DOWEL W/STANDARD HOOK @ 32" O.C. - DRILL & ADHERE 4" INTO EXISTING STONE MASONRY W/ INJECTABLE ANCHORING ADHESIVE

#4 DOWEL @ 48" O.C. HORIZONTAL SPACING - DRILL AND ADHERE 4" INTO EXISTING STONE MASONRY W/ INJECTABLE ANCHORING ADHESIVE

#4 DOWEL @ 32" O.C. - DRILL & ADHERE 16" INTO EXISTING MASONRY W/ INJECTABLE ANCHORING ADHESIVE - ALTERNATE HOOKS

EXISTING MASONRY WALL

(2) #5 x CONTINUOUS TOP ROOF SHEATHING - SEE PLAN

(4) #5 x CONTINUOUS MOLDING - SEE PLAN

WOOD TRUSS - SEE PLAN

EXISTING STONE MASONRY WALL

EXISTING STRUCTURAL FLOOR

EXISTING MASONRY WALL

EXISTING ROOF SHEATHING

EXISTING ROOF OPENING

EXISTING 2x8 LEDGER - ANCHOR TO CONCRETE W/ 5/8"Ø THREADED RODS @ 24" O.C. EMBEDDED 4" W/ INJECTABLE ANCHORING ADHESIVE

2x4 @ 16" O.C. WITHIN ROOF SHEATHING TO BLOCKING

2x ROOF JOIST - SEE PLAN

2x BLOCKING - END NAIL ROOF SHEATHING TO BLOCKING

2x HEADER - SEE PLAN

2x HEADER - SEE PLAN

2x10

2x10

SIMPSON LUS210 JOIST HANGER, TYP.

SIMPSON LUS24 EACH END, TYP.

SIMPSON LUS210Z EACH END, TYP.

2x ROOF JOIST - SEE PLAN

2x BLOCKING - END NAIL ROOF SHEATHING TO BLOCKING

2x HEADER - SEE PLAN

2x HEADER - SEE PLAN

2x10

2x10

SIMPSON LUS210 JOIST HANGER, TYP.