NOTE: CONTRACTORS DESIGNATED WITH PROJECT ADMINISTRATOR.

CAUTION: INSTALLATION OF NEW CONSTRUCTION.

LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PROVIDED AND STOCKPILING.

EXISTING CONSTRUCTION TO REMAIN TO BE PROTECTED AS REQUIRED.

REFERENCES TO CIVIL SITE GRADING PLAN FOR SLOPE REQUIREMENTS.

NOTE: ALL DEMOLITION MATERIALS SHALL BECOME PROPERTY OF CONTRACTOR FOR PROPER DISPOSAL UNLESS OTHERWISE NOTED.

LAYOUT DIMENSIONS.

REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING TYPE AND CONSTRUCTION.

EXISTING GRAVEL DRIVE TO BE REMOVED AS REQUIRED FOR INSTALLATION OF NEW DRIVE GRAVEL AREA.

CONCRETE BUMPER BLOCK (8" W X 5" H X 6'-0" LONG) ANCHORED TO PAVING CONCRETE SIDEWALK, REFER TO DETAIL 3/C-501.

ANCILLARY NO. 1.

ACCESSIBLE PARKING SYMBOL ATTACHED TO BUILDING, REFER TO DETAIL 3/A-501.

REFERENCE ONLY. PROJECT UNDER DESIGN AND CONSTRUCTION.

NOTE: SEPARATE CONTRACT.

NOTE: DEVELOPMENT SHOWN FOR PROPOSED NEW ADJACENT SITE.

NOTE: BASE BID.

PRICE APPROXIMATE INDICATED.

TABLE OF AREAS SHOWN ON SHEET MUST BE ACCURATE TO MATCH THE DIMENSIONS SHOWN ON THE SHEET.
NOTE: PROVIDE SAWN CONTROL JOINTS AT 15'-0" O.C. MAX. (25% SLAB THICKNESS) UNLESS OTHERWISE INDICATED.

CONCRETE PAVEMENT WITH #3'S AT 24" O.C. EA. WAY

COMPACTED CRUSHED LIMESTONE BASE ROCK

COMPACTED SUBBASE

COMPACTED SUBGRADE

CONTROL JOINT

4" THICK CONCRETE WITH #3'S AT 18" O.C. EACH WAY

COMPACTED SUBBASE

COMPACTED SUBGRADE

CONTROL JOINT

NOTE: PROVIDE TOOLED CONTROL JOINTS AT 25'-0" O.C. (25% SLAB THICKNESS) UNLESS OTHERWISE INDICATED.

SIDEWALK

12'-0" TO 5" 20" 20" 12"

NOTE:
SYMBOL TO BE PAINTED (HIGHWAY GRADE) OR DECAL ADHERED TO PAVEMENT. COLOR TO MATCH STRIPING UNLESS OTHERWISE REQUIRED BY LOCAL ACCESSIBILITY STANDARDS.

NOTE:
ALIGN BOTTOM EDGE OF SYMBOL WITH APPROACH END OF PARKING SPACE.

BOLLARD: 4" DIA. STD. STEEL. PRIME AND PAINT (SAFETY YELLOW).

CONCRETE PAVEMENT OR SIDEWALK, REFER TO SITE DEVELOPMENT FOR LOCATION AND TYPE.

CONCRETE FILL

CONCRETE FOOTING

DIAMETER

1'-0" 3'-0" 6"

ALUMINUM "ACCESSIBLE PARKING" SIGN TO COMPLY WITH STATE OF MISSOURI DESIGN STANDARDS. WHERE NO STANDARDS, PROVIDE SIGN EQUAL TO "SETON" NO. L5869S01TEDRAE.

ALUMINUM "VAN ACCESSIBLE" SIGN COMPLYING WITH STATE OF MISSOURI DESIGN STANDARDS. WHERE NO STANDARDS, PROVIDE SIGN EQUAL TO "SETON" NO. L6117S01TEDRAE (BASIS FOR DESIGN) OR EQUAL.

PROVIDE ALUMINUM "FINE OR PENALTY" SIGNAGE COMPLYING WITH STATE OF MISSOURI DESIGN STANDARDS.

FACE OF PRE-CAST CONCRETE BUILDING CONCRETE SIDEWALK.

RESERVED PARKING

5'-0" MINIMUM CLEAR (N.T.S.) TO BOTTOM OF LOWEST SIGN 1'-6"

VAN ACCESSIBLE 6"

$50 TO $300 FINE
STRUCTURAL NOTES

1. **Reinforcement Details:** All reinforcement details shall be in accordance with the applicable design criteria and shall be shown in detail on the working drawings.

2. **Structural Concrete:** Concrete to be Grade 3000 psi, per latest edition of the American Society for Testing and Materials (ASTM) C3000 standards. All concrete shall be placed in accordance with the American Concrete Institute (ACI) 301-17 guide for structural concrete practice.

3. **Steel Connections:** All steel connections shall be designed in accordance with the American Institute of Steel Construction (AISC) specifications. All welds shall be designed and performed in accordance with the American Welding Society (AWS) D1.1-17 standards.

4. **Stress Analysis:** All structural elements shall be analyzed for strength, stability, and overall integrity using the latest finite element analysis software. The design shall comply with the International Building Code (IBC) and the National Building Code (NBC).

5. **Fire Protection:** All structural elements shall be provided with appropriate fire protection, as determined by the fire engineer, to meet the requirements of the National Fire Protection Association (NFPA) codes.

6. **Specialty Systems Integration:** All structural elements shall be designed to accommodate future integration of specialty systems such as HVAC, plumbing, electrical, and others, as per the requirements outlined in the project's design guidelines.

7. **Quality Control:** All structural materials shall be subject to rigorous quality control measures, including material testing and inspection, to ensure compliance with the project's specifications.

8. **Access and Maintenance:** All structural elements shall be designed to provide adequate access for maintenance and repair as required during the project's lifetime.

9. **Environmental Considerations:** All structural elements shall be designed to minimize environmental impact, in accordance with the project's sustainability objectives.

10. **Safety Measures:** All structural elements shall be designed to ensure the safety of the construction workers and users, as per the applicable safety codes and standards.

11. **Design Criteria:** All structural elements shall be designed in accordance with the latest design criteria and standards, including provisions for earthquake, wind, and other extreme loads.

**Design Criteria for Structural Pre-Cast Concrete:**

- **Splice Table:**

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<td>120</td>
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</tbody>
</table>

**Additional Information:**

- **Pre-Cast Concrete Design:** All pre-cast concrete elements shall be designed in accordance with the latest pre-cast concrete design guidelines and standards, including provisions for stress, composition, and durability.

**Office of Administration Divisions Facility Management Design and Construction Department of Public Safety Missouri Army National Guard**

**Design & Construct Company Supply & Admin Headquarters Building**

Camp Clark Training Site 1160 South Broadway Nevada, Missouri

**Project #: 22014-01**

**Site #: 1234**

**Building #: 350**

**Structural Notes**

**Sheet Number:**

S-001

16 of 27 Sheets
07/03/2020
1. GENERAL:

FINISH MATERIAL APPLICATIONS.

2. FRAMING:

A. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

B. REFER TO CODE SUMMARY DRAWINGS FOR ADDITIONAL INFORMATION ON RECOMMENDATIONS.

2.1 INTERIOR WALL & CEILING

STUD WALL:
- Extend assembly to bottom of framing above floor system.
- Provide one layer 5/8" type "X" gyp. bd. both sides.
- 3 1/2" mineral wool batt insulation.
- One layer 5/8" type "X" gyp. bd. both sides.
- 362S162-33 (3 5/8"-20 ga.) metal stud framing at 24" O.C.
- Extend assembly to bottom of framing above floor system.
- Provide one layer 5/8" type "X" gyp. bd. both sides.
- 3 1/2" mineral wool batt insulation.
- Provide one layer 5/8" type "X" gyp. bd. on one side.
- 362S162-33 (3 5/8"-20 ga.) metal stud framing at 24" O.C.
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- 362S162-33 (3 5/8"-20 ga.) metal stud framing at 24" O.C.
ROOF PLAN

NORTH

KEY NOTES

1. SINGLE-PLY ROOFING MEMBRANE (TPO) SYSTEM OVER 1/2" COVER BOARD, RIGID INSULATION BOARD (R-30 MIN.) AND VAPOR RETARDER. SLOPE 1/4":12" (MIN.) TO DRAIN.

2. MECHANICAL HOT VENT THRU ROOF. REFER TO DETAIL 5/A-501.

3. PLUMBING VENT THRU ROOF. REFER TO DETAIL 6/A-501.

4. SHEET METAL GUTTERING (6"X6") WITH REMOVABLE ALUMINUM MESH DEBRIS SCREENS. SLOPE GUTTERS 1/4":12" TO DRAIN.


6. SHEET METAL DOWNSPOUT (4"X4"). PROVIDE 2" WIDE WALL MOUNTING BRACKETS AT 6'-0" O.C.


REFERENCE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

ROOF EDGE SECUREMENT TO COMPLY WITH ANSI/FM 4435/ES-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.

SHEET METAL CONSTRUCTION SHALL COMPLY WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN STANDARDS AND RECOMMENDATIONS.

ROOFING CONSTRUCTION SHALL COMPLY WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) DESIGN STANDARDS AND RECOMMENDATIONS.

ALL ROOF VENTS SHALL COMPLY WITH ICC 500 OPENING PROTECTIVE REQUIREMENTS, PROVIDE DOCUMENTED WITH SHOP DRAWINGS AND UL TESTING AND APPROVAL NUMBERS.

REFER TO EXTERIOR HANDSCHEDULE FOR ADDITIONAL REQUIREMENTS.

PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

SYMBOLS LEGEND

A-102

OF 27 SHEETS

07/30/2020

Buddy Webb & Company
Architect - Consultant

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC SAFETY
MISSOURI ARMY NATIONAL GUARD
DESIGN & CONSTRUCT
COMPANY SUPPLY & ADMIN HEADQUARTERS BUILDING
CAMP CLARK
TRAINING SITE
14159 SOUTH K HIGHWAY
NEVADA, MISSOURI
ALL DIMENSIONS ARE TO ROUGH FACE OF FRAMING OR CONCRETE STRUCTURE UNLESS OTHERWISE INDICATED.
REFER TO CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
REFER TO EXTERIOR AND INTERIOR FINISH SCHEDULES FOR MATERIAL TYPES AND LOCATIONS.
REFER TO FLOOR PLAN FOR DOOR AND WINDOW TYPES AND LOCATIONS.
DESIGNATED STORM SHELTER ASSEMBLIES SHALL COMPLY WITH ICC 500 REQUIREMENTS FOR CONSTRUCTION, OPENING PROTECTIVES, AND PENETRATION REQUIREMENTS.
PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE INSTALLED WITH FIRE DAMPERS, FIRE SEAL, ETC., SO AS TO MAINTAIN THE FIRE-RESISTIVE RATING AND STRUCTURAL INTEGRITY OF RATED CONSTRUCTION.
ROOF EDGE SECUREMENT TO COMPLY WITH ANSI/FM 4435/ES-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.
SHEET METAL CONSTRUCTION SHALL COMPLY WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN STANDARDS AND RECOMMENDATIONS.
ROOFING CONSTRUCTION SHALL COMPLY WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) DESIGN STANDARDS AND RECOMMENDATIONS.
CAST IN PLACE CONCRETE SLABS OR SIDEWALKS. REFER TO CIVIL AND STRUCTURAL DRAWINGS.
STRUCTURAL PRE-CAST CONCRETE WALL PANEL SYSTEM. REFER TO FLOOR PLAN FOR LAYOUT.
STRUCTURAL PRECAST CONCRETE DOUBLE TEE ROOF STRUCTURE.
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN.
CAST IN PLACE CONCRETE slab OR SIDEWALK. REFER TO CIVIL AND STRUCTURAL DRAWINGS.
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN.
STRUCTURAL PRECAST CONCRETE DOUBLE TEE ROOF STRUCTURE.
SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN.
2. REFER TO MANUFACTURERS’ SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PENETRATION LOCATIONS.

A-501

8’’ MINIMUM FLASHING HEIGHT

BASE FLASHING AT PARAPET WALL WITH METAL COPING

DETAIL
NOT TO SCALE

APPROPRIATE CEMENT (A.S.T.M. C-91) OR CEMENTitious Mortar of TYPE “S” OR TYPE “N” TO PROVIDE A FIRM BASE FOR THE FLASHING. CEMENT MIXTURES MUST MEET THE REQUIREMENTS OF A-501. FASCIA METAL SHEET ATTACHED TO PREMANUFACTURED GUTTER BRACKET AND GUTTER FLANGE WITH #10 X 2” STAINLESS STEEL FASTENERS AND ALUMINUM PRE-DRILLED SPLICE PLATES. INSTALLED BETWEEN GUTTER BRACKETS AND GUTTER FLANGE.

NOTES:

3. APPROPRIATE FASTENERS (A.S.T.M. FOR SHEET METAL, GUTTER BRACKETS AND GUTTER FLANGE) WITH #10 X 2" STAINLESS STEEL FASTENERS AND ALUMINUM PRE-DRILLED SPLICE PLATES. INSTALL SEAM PLATES AND DRAWBAND WITH COMPATIBLE SEALANT (IF REQUIRED SEAM PLATES AND DRAWBAND MUST BE ALIGNED WITH THE PREMANUFACTURED GUTTER BRACKET AND GUTTER FLANGE.) INSTALL SEAM PLATES AND DRAWBAND WITH COMPATIBLE SEALANT (IF REQUIRED)

NOTES:

B. SELF-ADHERING OR DETACHABLE SEALANT (IF REQUIRED INSTALLED BETWEEN GUTTER BRACKETS AND GUTTER FLANGE.) INSTALL SEAM PLATES AND DRAWBAND WITH COMPATIBLE SEALANT (IF REQUIRED SEAM PLATES AND DRAWBAND MUST BE ALIGNED WITH THE PREMANUFACTURED GUTTER BRACKET AND GUTTER FLANGE.) INSTALL SEAM PLATES AND DRAWBAND WITH COMPATIBLE SEALANT (IF REQUIRED)

NOTES:

COPING JOINERY

NOT TO SCALE

APPRIOPRIATE CEMENT (A.S.T.M. C-91) OR CEMENTitious Mortar of TYPE “S” OR TYPE “N” TO PROVIDE A FIRM BASE FOR THE COPING. CEMENT MIXTURES MUST MEET THE REQUIREMENTS OF A-501.

NOTES:

GUTTER JOINERY

NOT TO SCALE

PLUMBING VENT STACK BASE FLASHING AT PARAPET WALL WITH METAL COPING

DETAIL
NOT TO SCALE

APPROPRIATE CEMENT (A.S.T.M. C-91) OR CEMENTitious Mortar of TYPE “S” OR TYPE “N” TO PROVIDE A FIRM BASE FOR THE FLASHING. CEMENT MIXTURES MUST MEET THE REQUIREMENTS OF A-501. FASCIA METAL SHEET ATTACHED TO PREMANUFACTURED GUTTER BRACKET AND GUTTER FLANGE WITH #10 X 2” STAINLESS STEEL FASTENERS AND ALUMINUM PRE-DRILLED SPLICE PLATES. INSTALLED BETWEEN GUTTER BRACKETS AND GUTTER FLANGE.

NOTES:

RUFF A-R 501 -- MATERIALS AND TECHNIQUES

4. EXTEND MEMBRANE SHEET EXTENDED UP TO 3" FACE OF JOINT- SECURE USING SCREW THRU INSTALL SEALANT OR SEALANT BEAD APPLIED ALONG BOTH SIDES OF JOINT BETWEEN PIPE AND WALL. PROVIDE SEALANT AT COPING JOINT FLASH @ EXTERIOR FACE.

NOTES:

5. JOINTS SHALL OCCUR AT 10'-0" TYP. 20'-0" BETWEEN PIPE AND WALL, DEVICES TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS FOR ADDITIONAL DETAILS:

NOTES:

6. DEBRIS SCREENS (NOT SHOWN).

NOTES:

7. UN-ADHERED METAL SHEET TO BE FASTENED WITH \#8 STAINLESS STEEL SELF-DRILLING FASTENERS (TYP.). SINGLE FASTENER MAXIMUM SPACING \#12" (APPROX.).

NOTES:

8. GUTTER FRAMING AND SIZE VARY. CHECKED BY:

ISSUE DATE:

REVISION:

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR
OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD
CAMP CLARK TRAINING SITE 18159 SOUTH K HIGHWAY NEVADA, MISSOURI
PROJECT #: T2018-01
SITE #: 6274
ASSISTED BY: 813674800 BUILDING #: 393

ROOFING DETAILS

SHEET NUMBER: A-501

30 OF 27 SHEETS 07/30/2020
DOOR SCHEDULE

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<th>Frame</th>
<th>Details</th>
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Notes:
1. Doors shall be shop prepped for hardware.
2. Protective operator assembly shall be 90° to GGC compliant. See general notes for additional requirements.

HARDWARE SCHEDULE

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</table>

Notes:
1. All doors shall be shop prepped for hardware.

GENERAL NOTES

1. Refer to project manual for additional requirements.
2. Refer to building summary and structural drawings for framing requirements specific to each section.
3. All workmanship shall be of materials designated on project drawings prior to ordering. Material variations to be communicated prior to ordering.
4. Hollow metal frame, refer door perimeter (typical).
5. Refer to schedule for types. Shims and anchors shall be prepped for hardware.
6. Field verify final rough opening dimensions prior to opening.
7. Special inspections be conducted during installation. Certification requirements specified. Anchorage systems require spacing and locations required for project conditions.
8. Verify compatibility of hardware specified. Notify architect of incompatibility issues prior to ordering and installation.
9. Hardened to ADA requirement (3) surface vertical rods, cover guards, dust protected bottom strikes, exterior escutcheon trims.
10. Window type frames shown refer product for size and size.
11. Refer to building summary for hardware to be ADA and ANSI A117.1 compliant.
12. Load bearing to be specified by architect (when commercial).
13. Refer to general notes for additional requirements.
INTERIOR FINISH TYPES

**GENERAL NOTES**

1. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
2. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL REQUIREMENTS.
5. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

**KEY NOTES**

- ALL BASE TO BE RUBBER "B1" UNLESS OTHERWISE INDICATED.
- ALL EXTERIOR WINDOW OPENINGS SHALL HAVE CUSTOM BLINDS, ADJACENT SURFACE PAINTED FINISHES.
- ALL WALLS TO BE PAINTED "W1" UNLESS OTHERWISE INDICATED.

**INTERIOR FINISH PLAN**

**COVE BASE DETAIL**

- 1 1/2" x 1/2" STAINLESS STEEL 304 GAL. WITH WHITE-FOR-BASE CONCRETE GROUT.
- SCREW FOR MASONRY RECOMMENDATION.

**CORNER GUARD DETAIL**

- INTERIOR BASE & FRAME:
  - REFER TO DETAIL 2/I-101.

**FLOORING TRANSITION DETAIL**

- INTERIOR BASE & FRAME:
  - REFER TO DETAIL 2/I-101.

**SYMBOLS LEGEND**

- FLOOR OR BASE FRAME TYPE
- CEILING FINISH TYPE
- FLOOR FINISH PATTERN