Solar Array, Interior Lighting and Roof Replacement
Trenton Field Maintenance Shop & Readiness Center
Trenton, Missouri

OWNER:
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF PUBLIC
SAFETY
MISSOURI ARMY NATIONAL
GUARD
PROJECT MANAGEMENT:
OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN AND
CONSTRUCTION

DESIGNER:
THE CLARK ENERSEN PARTNERS

PROJECT NUMBER: T2048-01
A/E PROJECT NUMBER: 050-007-20
SITE NUMBER: 6256
ASSET NUMBERS: 8136256005 & 8136256006

PROJECT LOCATION:
901 Industrial Drive
Trenton, MO 64683
GENERAL DEMOLITION NOTES

1. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.

2. PROJECT TIME LIMITS MENTIONED IN THIS CONTRACT MUST BE OBSERVED.

3. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF CONSTRUCTION ACTIVITIES WOULD ALTER OR DAMAGE ANY EXISTING LIVESTOCK, GARDENER OR GARDENING OR OTHER REAL ESTATE OR PERSONAL PROPERTY. THE OWNER WILL THEN DETERMINE WHETHER SUCH ALTERATION OR DAMAGE IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR ALTERATIONS OR DAMAGE CAUSED BY THE OWNER OR ITS EMPLOYEES.

4. IF CLAIMS ARE TO BE MADE FOR DAMAGES TO EXISTING MATERIALS RESULTING FROM WORK UNDER THIS CONTRACT, SUCH CLAIMS MUST BE MADE IN WRITING WITHIN 10 DAYS OF DISCOVERY. THE OWNER WILL THEN DETERMINE WHETHER SUCH DAMAGE IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY THE OWNER OR ITS EMPLOYEES.

5. ALL CLAIMS FOR DAMAGES TO EXISTING MATERIALS RESULTING FROM WORK UNDER THIS CONTRACT MUST BE MADE IN WRITING WITHIN 10 DAYS OF DISCOVERY. THE OWNER WILL THEN DETERMINE WHETHER SUCH DAMAGE IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY THE OWNER OR ITS EMPLOYEES.

6. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES TO EXISTING MATERIALS RESULTING FROM WORK UNDER THIS CONTRACT. THE OWNER WILL THEN DETERMINE WHETHER SUCH DAMAGE IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY THE OWNER OR ITS EMPLOYEES.

7. CONTRACTOR SHALL PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING CONSTRUCTION.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT.

9. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT. THE OWNER WILL THEN DETERMINE WHETHER SUCH DAMAGE IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY THE OWNER OR ITS EMPLOYEES.

10. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING. THE OWNER WILL THEN DETERMINE WHETHER SUCH WORK IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY THE OWNER OR ITS EMPLOYEES.

11. REMOVE LABELS THAT ARE NOT INTENDED TO BE PERMANENT.


13. FIELD MAINTENANCE SHOP (GENERAL)

14. G2 REMOVE LABELS THAT ARE NOT INTENDED TO BE PERMANENT.

15. G3 REMOVE EXISTING COPING AND METAL PANEL AT BACK SIDE OF PARAPET WALL.

16. G4 EXISTING MEP ROOF PENETRATION, COORDINATE WITH ROOF REPLACEMENT.

17. REPLACE ANY CEILING TILE AND GRID DAMAGED BY CONSTRUCTION ACTIVITIES WITH MATERIALS THAT MATCH EXISTING ADJACENT CEILING TILES.

18. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT. THE OWNER WILL THEN DETERMINE WHETHER SUCH DAMAGE IS ACCEPTABLE. CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED BY THE OWNER OR ITS EMPLOYEES.

FINAL CLEANING SHALL INCLUDE THE FOLLOWING:

- REMOVE ALL SURFACE MOUNTED OBJECTS IN AREA OF WORK THAT ARE ABANDONED AND NOT INTENDED FOR REUSE.
- PREPARE WALL FOR NEW FLASHING AND COPING IN COORDINATION WITH REPAIRED EXISTING ROOF, NOT IN SCOPE.
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ROOF PLAN GENERAL NOTES:

1. All roofing shall be installed in accordance with the National Roofing Contractors Association (NRCA) Roofing Manual: Standing Seam Roof Systems - 2018.

2. Provide chamfers, crickets and saddles as required @ insulation height transitions & obstructions to drainage.

3. Verify all existing penetrations and coordinate with new roofing system.

4. Install through-wall scuppers, conductor heads and downspouts in accordance with Sheet Metal & Air Conditioning Contractors National Association (SMACNA) and NRCA Roofing Manual.

5. Contractor to verify all structural conditions prior to installation of new roof in areas indicated, coordinate with owner and architect.

6. Coordinate roof seam with existing roof penetrations, flash and seal around existing vents as necessary; vent caps may be removed and reinstalled as needed for new flashing and sealant.

7. It shall be the contractor's responsibility to coordinate the installation of new work within existing conditions. Building will remain occupied during construction; contractor to coordinate sequencing of work with owner to limit disruption and maintain the safety of occupants.

8. If necessary to access underside of roof from interior at locations where lay-in ceilings exist, contractor shall remove, salvage and reinstall any ceiling grid and tile as necessary to accommodate construction activity. Replace any tiles damaged by construction activity.

9. Existing roofs are still under warranty. All new roof work must be done in materials and manner so not to void existing roof warranty. Notify warrantor before proceeding. At completion, obtain documentation verifying that existing roofing system has been inspected and warranty remains in effect. Submit documentation at project closeout.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

PROFESSIONAL SEAL

DEPARTMENT OF PUBLIC SAFETY
MISSOURI ARMY NATIONAL GUARD

SOLAR ARRAY, INTERIOR LIGHTING & ROOF REPLACEMENT
TRENTON FIELD MAINT. SHOP & READINESS CENTER
901 INDUSTRIAL DRIVE
TRENTON, MO 64683

PROJECT # T2048-01
SITE #: 6256
ASSET #: 8136256005 & 8136256006

REVISED: DATE:
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DRAWN BY:
CHECKED BY:
DESIGNED BY:

SHEET NUMBER:
A-101

A-101
1. **ROOF DETAIL, GUTTER - STANDARD EDGE**

   - Component, see spec.
   - Insulation system fabric
   - Vapor barrier, integral to treated wood blocking
   - Gutter, tie into parapet retainer straps in grid pattern per insulation and vapor liner w/ steel insulation, min R
   - Infill between roof structure with perlins, compress as to req. by 3" standing seam roof system w/ membrane liner
   - Internal drain, wrap over gutter
   - 5/8" exterior rated sheathing, vapor coping and new roof system MTL. panel, tie into existing at sheathing, weather barrier behind MTL. panel over 5/8" exterior existing parapet

   NOTE: Affix all roof elements per manufacturer's recommended and warranted means and methods.

2. **ROOF DETAIL, CONNECTION TO EXISTING, 1**

   - Component, see spec.
   - Insulation system fabric
   - Vapor barrier, integral to treated wood blocking
   - Vapor barrier, integral to existing steel structure (steel frame and purlins), contractor to field verify conditions
   - Existing steel structure (steel frame and purlins), steel joists, rigid insulation and MTL. deck on existing standing seam roof over vapor barrier of existing roof
   - Only at connection, connect with vapor barrier, continue across roof system

   NOTE: Affix all roof elements per manufacturer's recommended and warranted means and methods.

3. **ROOF DETAIL, PARAPET EXISTING**

   - Component, see spec.
   - Insulation system fabric
   - Vapor barrier, integral to treated wood blocking
   - Gutter, tie into parapet retainer straps in grid pattern per insulation and vapor liner w/ steel insulation, min R
   - Infill between roof structure with perlins, compress as to req. by 3" standing seam roof system w/ membrane liner
   - Internal drain, wrap over gutter
   - 5/8" exterior rated sheathing, vapor coping and new roof system MTL. panel, tie into existing at sheathing, weather barrier behind MTL. panel over 5/8" exterior existing parapet

   NOTE: Affix all roof elements per manufacturer's recommended and warranted means and methods.

4. **ROOF DETAIL, EXISTING VENT BOOT DETAIL**

   - Component, see spec.
   - Insulation system fabric
   - Vapor barrier, integral to treated wood blocking
   - Gutter, tie into parapet retainer straps in grid pattern per insulation and vapor liner w/ steel insulation, min R
   - Infill between roof structure with perlins, compress as to req. by 3" standing seam roof system w/ membrane liner
   - Internal drain, wrap over gutter
   - 5/8" exterior rated sheathing, vapor coping and new roof system MTL. panel, tie into existing at sheathing, weather barrier behind MTL. panel over 5/8" exterior existing parapet

   NOTE: Affix all roof elements per manufacturer's recommended and warranted means and methods.

5. **ROOF DETAIL, ALIGNED EXISTING AND NEW**

   - Component, see spec.
   - Insulation system fabric
   - Vapor barrier, integral to treated wood blocking
   - Gutter, tie into parapet retainer straps in grid pattern per insulation and vapor liner w/ steel insulation, min R
   - Infill between roof structure with perlins, compress as to req. by 3" standing seam roof system w/ membrane liner
   - Internal drain, wrap over gutter
   - 5/8" exterior rated sheathing, vapor coping and new roof system MTL. panel, tie into existing at sheathing, weather barrier behind MTL. panel over 5/8" exterior existing parapet

   NOTE: Affix all roof elements per manufacturer's recommended and warranted means and methods.

6. **ROOF DETAIL, RIDGE**

   - Component, see spec.
   - Insulation system fabric
   - Vapor barrier, integral to treated wood blocking
   - Gutter, tie into parapet retainer straps in grid pattern per insulation and vapor liner w/ steel insulation, min R
   - Infill between roof structure with perlins, compress as to req. by 3" standing seam roof system w/ membrane liner
   - Internal drain, wrap over gutter
   - 5/8" exterior rated sheathing, vapor coping and new roof system MTL. panel, tie into existing at sheathing, weather barrier behind MTL. panel over 5/8" exterior existing parapet

   NOTE: Affix all roof elements per manufacturer's recommended and warranted means and methods.
NOTE: IMAGES FOR REFERENCE ONLY. FIELD VERIFICATION AND PLAN DRAWINGS TO SUPERSEDE IMAGE NOTATIONS.

- IMAGES: EXPOSED MET. DECK IS PART OF REMOVED ADDITION. THIS ROOF IS TO REMAIN. SEE ROOF PLAN.
### ELECTRICAL ABBREVIATIONS AND SYMBOLS LEGEND

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<th>LIGHTING</th>
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### PROJECT GENERAL ELECTRICAL NOTES

**GENERAL SOLUTIONS NOTES**

- All mechanical and electrical materials shall be installed in accordance with the latest edition of the NEC.
- All electrical connections shall be made by qualified electricians.
- All electrical panels shall be provided with primary and secondary disconnects.
- All electrical conduit shall be provided with pull wire as required.

**GENERAL NOTES**

- All electrical equipment shall be installed in accordance with the latest edition of the NEC.
- All electrical panels shall be provided with primary and secondary disconnects.
- All electrical conduit shall be provided with pull wire as required.

**GENERAL POWER & AUXILIARY SYSTEMS NOTES**

- All mechanical and electrical materials shall be installed in accordance with the latest edition of the NEC.
- All electrical connections shall be made by qualified electricians.
- All electrical panels shall be provided with primary and secondary disconnects.
- All electrical conduit shall be provided with pull wire as required.

**GENERAL PHOTOVOLTAIC SYSTEM NOTES**

- All mechanical and electrical materials shall be installed in accordance with the latest edition of the NEC.
- All electrical connections shall be made by qualified electricians.
- All electrical panels shall be provided with primary and secondary disconnects.
- All electrical conduit shall be provided with pull wire as required.

### ADDITIONAL LIGHTING CONTROL SYSTEM

901 INDUSTRIAL DRIVE

REFERENCE LIGHTING SHEETS FOR

READINESS CENTER

MAINT. SHOP &

FIXTURE INDICATES ILLUMINATED FACES.

LIGHTING & ROOF

METER

CIRCUIT, RECESSED IN GWBD OR PLASTER CEILING.

REFER TO DRAWINGS FOR FIXTURE MOUNTING

J

WALL MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE.

PORTIONS OF THE FACILITY MUST REMAIN IN OPERATION. THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL PHASING REQUIREMENTS WITH THE GENERAL CONTRACTOR AND THE OWNER, BATTERY BACKUP AND/OR ON EM CIRCUIT.

REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.

J

2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE.

WPU WEATHERPROOF IN-USE TYPE

SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRE, WHICH OCCUR AS A RESULT OF EXISTING CIRCUITING. CONTINUITY RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

AFF

FOUR WAY SWITCH

S3

S2

S

SINGLE POLE SWITCH

TWO POLE SWITCH

THREE WAY SWITCH

C TROFFER

R 2' X 2' TROFFER

H 2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE.

DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.

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LOCATION OF 78 KW GROUND MOUNT PHOTOVOLTAIC ARRAY. SEE ELECTRICAL ONE-LINE DIAGRAM AND SPECIFICATIONS FOR MORE INFORMATION.

LOCATION OF PV SYSTEM SAFETY DISCONNECT MOUNTED ADJACENT TO EXISTING ELECTRICAL SERVICE TRANSFER SWITCH. COORDINATE EXACT LOCATION, SEE THE ELECTRICAL ONE-LINE DIAGRAM AND SPECIFICATIONS FOR MORE INFORMATION.

LOCATION OF SURFACE MOUNT PV SYSTEM INVERTER. SEE CANOPY PV MOUNTING DETAIL, ELECTRICAL ONE-LINE DIAGRAM, AND SPECIFICATIONS FOR MORE INFORMATION.

LOCATION OF AGGREGATION PANEL. PROVIDE UNISTRUT MOUNTING AS APPLICABLE. SEE ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION.

LOCATION OF EXISTING ELECTRICAL UTILITY SERVICE TRANSFER SWITCH. SEE ELECTRICAL ONE-LINE DIAGRAM FOR EXTENT OF WORK AND MORE INFORMATION.

PV SYSTEM SERVICE FEEDERS. BURY A MINIMUM OF 36" BELOW GRADE. PROVIDE WARNING TAPE 12" ABOVE. COORDINATE ROUTING WITH OWNER. SEE THE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
LIGHTING DEMOLITION PLAN

MEZZANINE LIGHTING DEMOLITION PLAN

KEY NOTE DESCRIPTION
1. EXISTING LIGHT FIXTURES TO BE DEMOLISHED ONLY. EXISTING LIGHTING CONTROLS AND CIRCUITRY TO REMAIN FOR RE-UTILIZATION. REFER TO GENERAL DEMOLITION NOTES FOR FURTHER INFORMATION.
LIGHTING PLAN

MEZZANINE LIGHTING PLAN

LIGHTING PLAN NOTES

MEZZANINE LIGHTING PLAN NOTES

CONTRACTOR TO FIELD VERIFY AND COORDINATE NEW LIGHT FIXTURES WITH EXISTING OVERHEAD EQUIPMENT AS NECESSARY. COORDINATE ALL FIXTURE RELOCATIONS WITH OWNER AND ENGINEER.

LIGHTING PLAN

MEZZANINE LIGHTING PLAN

CONTRACTOR TO FIELD VERIFY AND COORDINATE NEW LIGHT FIXTURES WITH EXISTING OVERHEAD EQUIPMENT AS NECESSARY. COORDINATE ALL FIXTURE RELOCATIONS WITH OWNER AND ENGINEER.
ALL PV BREAKERS SHALL BE UL LISTED AND SUITABLE FOR BACK / REVERSE FEED USE.

4,500W. PHOTOVOLTAIC MODULES SHALL BE UL LISTED.

(14) 375W PHOTOVOLTAIC MODULES. 1 STRING OF 14 MODULES WITH A TOTAL SUB-ARRAY WATTAGE OF 5,250W. PHOTOVOLTAIC MODULES SHALL BE UL LISTED.

SOLAR EDGE SE14.4KUS42

7
6
5
4
3
2
1

MANUFACTURER MODELQUANTITYP     (W)NOM DC V     (V)NOM I     (A)NOM AC P     (W)MAX SC I     (A)MAX DC V     (Voc)MAX OC DC V   (V)MPDC V   (V)MP I   (A)SC V   (V)I   (A)NOM AC P     (W)NOM AC I   (A)NOM AC V   (V)NOM DC I   (A)NOM DC V   (V)NOM DC P     (W)MAX I   (A)MAX DC V   (V)MAX P     (W)INPUT PARAMETERS (DC)OUTPUT PARAMETERS (DC)

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WARNING! PHOTOVOLTAIC POWER SOURCE

OPERATING VOLTAGE: 480 VDC
MAXIMUM AC CURRENT: 135 A
MAXIMUM SYSTEM VOLTAGE: 600 VDC
PRIMARY CIRCUIT CURRENT: 45 A

WARNING! ELECTRIC SHOCK HAZARD, TERMINALS MUST NOT BE TOUCHED.

WARNING! SOLAR PHOTOVOLTAIC SOURCE MAY BE ENERGIZED IN THE OPEN POSITION.

WARNING! ELECTRIC SHOCK HAZARD, IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED.

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