

AASF & Cold Storage Hangar LED Lighting, POV and MVC Expansion Whiteman Air Force Base Knob Noster, Missouri

CLARK &
ENERSEN

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



Project Location
One Attack Avenue
Knob Noster, MO 65305

DESIGNER: CLARK & ENERSEN

PROJECT NUMBER: T2045-01
A/E PROJECT NUMBER: 050-010-20

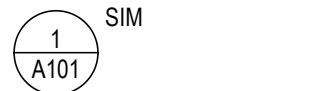
SITE NUMBER: 6258
ASSET NUMBER: 8136258001 & 8136258003

SHEET NUMBER:

G-000

05/27/2022

REFERENCE SYMBOLS

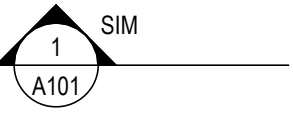


DETAIL OR SECTION NUMBER
SHEET ON WHICH IT IS FOUND

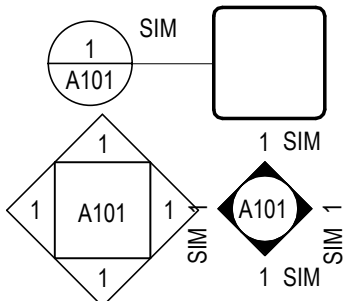


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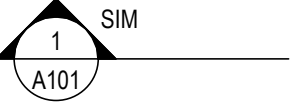
DETAIL REFERENCE NUMBER



SECTION REFERENCE



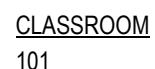
DETAIL REFERENCE



CROSS SECTION REFERENCE



DETAIL SECTION REFERENCE



ROOM IDENTIFIER



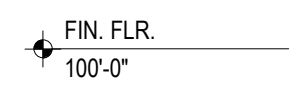
DOOR/OPENING IDENTIFIER



WINDOW/OPENING IDENTIFIER



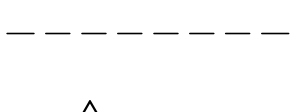
GRID LINE



ELEVATION REFERENCE



WALL TYPE REFERENCE



DEMOLITION INDICATOR



REVISION TAG & CLOUD INDICATOR

REVISION TAG INFORMATION:

TOP indicates the instrument type.

- A = Addendum
- B = Bid Package
- D = Construction Change Directive or Change Directive
- F = Field Order
- G = Guaranteed Maximum Price
- I = Architects Supplemental Instructions or Architects Supplemental
- L = Information
- P = Limited Permit
- R = Proposal Request, Proposal Request Order or Change Proposal Request
- BOT = Request For Information Number assigned to instrument type

GENERAL NOTES

- ALL DISCIPLINES SHALL BE RESPONSIBLE FOR THEIR SCOPE OF WORK. THIS WORK IS TO BE SCHEDULED AND COMPLETED WITH THE GENERAL CONTRACTOR'S FULL KNOWLEDGE.
- ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF CODES AND STANDARDS (INCLUDING THE AMERICANS WITH DISABILITIES ACT (ADA); INTERNATIONAL BUILDING CODE (IBC); NATIONAL FIRE PROTECTION AGENCY (NFPA 101); ASHRAE STANDARD 90.1; AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI); AND THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA).
- FINAL CLEANING - REMOVE OR REPAIR DAMAGED OR SOILED SPOTS ON NEWLY PAINTED WALLS AND ON ALL NEWLY INSTALLED WORK. REMOVE DUST AND DEBRIS FROM ALL NEW WORK.

STANDARD ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABBR	ABBREVIATE
ABV	ABOVE
AC	AIR CONDITIONING
AC RES.	ACID-RESISTANT
ACOUS.	ACOUSTICAL
ACOUS INSUL.	ACOUSTICAL INSULATION
ACOUS PNL.	ACOUSTICAL PANEL
ACOUS PLAS.	ACOUSTICAL PLASTER
ACOUS TILE	ACOUSTICAL TILE
ACT.	ACTUAL
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDUM	ADDENDUM
ADJ	ADJUSTABLE
ADJC.	ADJACENT
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALD	ALUMINUM DOOR
ALM	ALARM
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMPL.	AMPLIFIER
AMT	AMOUNT
ANN	ANNUNCIATOR
ANOD.	ANODIZED
ANT	ANTENNA
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPX	APPROXIMATE
ARCH.	ARCHITECT (URAL)
ASB	ASBESTOS
ASC.	ABOVE SUSPENDED CEILING
ASPH.	ASPHALT
ASYM.	ASYMMETRICAL
AV	AUDIO VISUAL
AWE	AWNING
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BAB	BALLED AND BURNED WOOD
BAF	BAFFLE
BAL	BALANCE
BB	BULLETIN BOARD
BC	BOTTOM OF CURB
BD	BOARD
BEV	BEVEL
BF	BOTH FACES
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BTUM	BUTYLUMBER
BUT	BED JOINT
BL	BASE LINE
BLDG.	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLST	BALUST
BM	BEAM
BO	BOTTOM OF
BCC	BACK OF CURB
BOW	BOTTOM OF WALL
BP	BASE PLATE
BRG	BRACING
BRDG JST.	BRIDGING JOIST
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BR	BRASS
BRZ	BRONZE
BS	BOTH SIDES
BSMT.	BASEMENT
BTM	BOTTOM
BUR	BUILT-UP ROOF
BW	BOTH WAYS
C/C	CENTER TO CENTER
C&G	CURB AND GUTTER
CAB	CABINET
CAV	CAVITY
CB	CATCH BASIN
CCTV.	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CEM PLAS.	CEMENT PLASTER
CER	CERAMIC
CER TILE	CERAMIC TILE
CFLG	COUNTER FLASHING
CG	CORNER GUARD
CH BD	CHALKBOARD
CHAN	CHANNEL
CHFR	CHAMFER
CHK	CHECK
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG DIFF.	CEILING DIFFUSER
CLG HT.	CEILING HEIGHT
QLL	CONTRACT LIMIT LINE
CLOS	CLOSET
CLR	CLEAR
CLSR	CLOSURE
CMPT	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR.	COUNTER
CO	CLEANOUT
COL	COLUMN
COMM.	COMMERCIAL
COMPL	COMPLETE
CONC	CONCRETE
CONC FL.	CONCRETE FLOOR
CONF	CONFERENCE
CONN.	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS

CONTR.	CONTRACTOR
COORD	COORDINATE
CORR.	CORRIDOR
COV PL	COVER PLATE
CPRS	COMPRESSIBLE
CPT	CARPET
CRCMF	CIRCUMFERENCE
CRS	COLD ROLLED STEEL
CSC	CASING
CSK	COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CUB	CUBICLE
CUR	CURRENT
CW	COLD WATER
DBL GLZ	DOUBLE GLAZING
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DFR	DRAPERY FABRIC
DFR	DOOR FRAME
DH	DOUBLE HUNG
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVIDER
DIW	DEIONIZED WATER
DJ	DOUBLE JOIST
DL	DEAD LOAD
DL	DRAPERY LINER
DMPF	DAMP-PROOFING
DN	DOWN
DO	DITTO
DR	DOOR
DR	DRAIN
DRCLSR	DOOR CLOSURE
DS	DOWNSPOUT
DST	DOOR STOP
DT	DRAIN TILE
DUP	DUPPLICATE
DVTL	DOVETAIL
DW	DISHWASHER
DWG.	DRAWING
DWL	DIMINUTESCENCE
DWR	DRAWER
DWTR	DUMBWAITER
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENAM	ENAMEL
ENCL	ENCLOSURE
ENG	ENGINEER
ENTR	ENTRANCE
EO	ELECTRICAL OUTLET
EP	ELECTRICAL PANEL
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY FLOOR
EQL SP	EQUALLY SPACED
EQ BRG	EQUAL BEARING
EQIP	EQUIPMENT
EQUIV	EQUIVALENT
ERECT	ERECTION
ESCAL	ESCALATOR
ESMT	EASEMENT
EST	ESTIMATE
EW	EACH WAY
EXC	EXCAVATE
EXG	EXISTING
EX HD	EXHAUST HOOD
EXH FN	EXHAUST FAN
EXP	EXPANSION
EXP	EXPOSED
EXST	EXISTING
EXST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
F BRK	FIRE BRICK
FF	FACE TO FACE
FBD	FIBERBOARD
FC	FIRE COATED
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FEL	FINISH FLOOR ELEVATION
FG	FIBERGLASS
FIN GR	FINISH GRADE
FIN FL	FINISH FLOOR
FIN	FINISH
FL	FLASHING
FL	FLOWLINE
FLDG	FOLDING
FLG	FLANGE
FLR	FLOOR
FLR SK	FLOOR SINK
FLR PL	FLOOR PLATE
FLR FIN	FLOOR FINISH
FLT GL	FLOAT GLASS
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPL	FIREPLACE
FRF	FIREPROOFING
FRM	FRAME
FRNT	FRONT
FS	FAR SIDE
FS	FLAT SCREEN
FS	FULL SIZE
FSP	FIRE STANDPIPE
FSTNR	FASTENER
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FXT	FIXTURE
GALV	GALVANIZED
GB	GRAB BAR

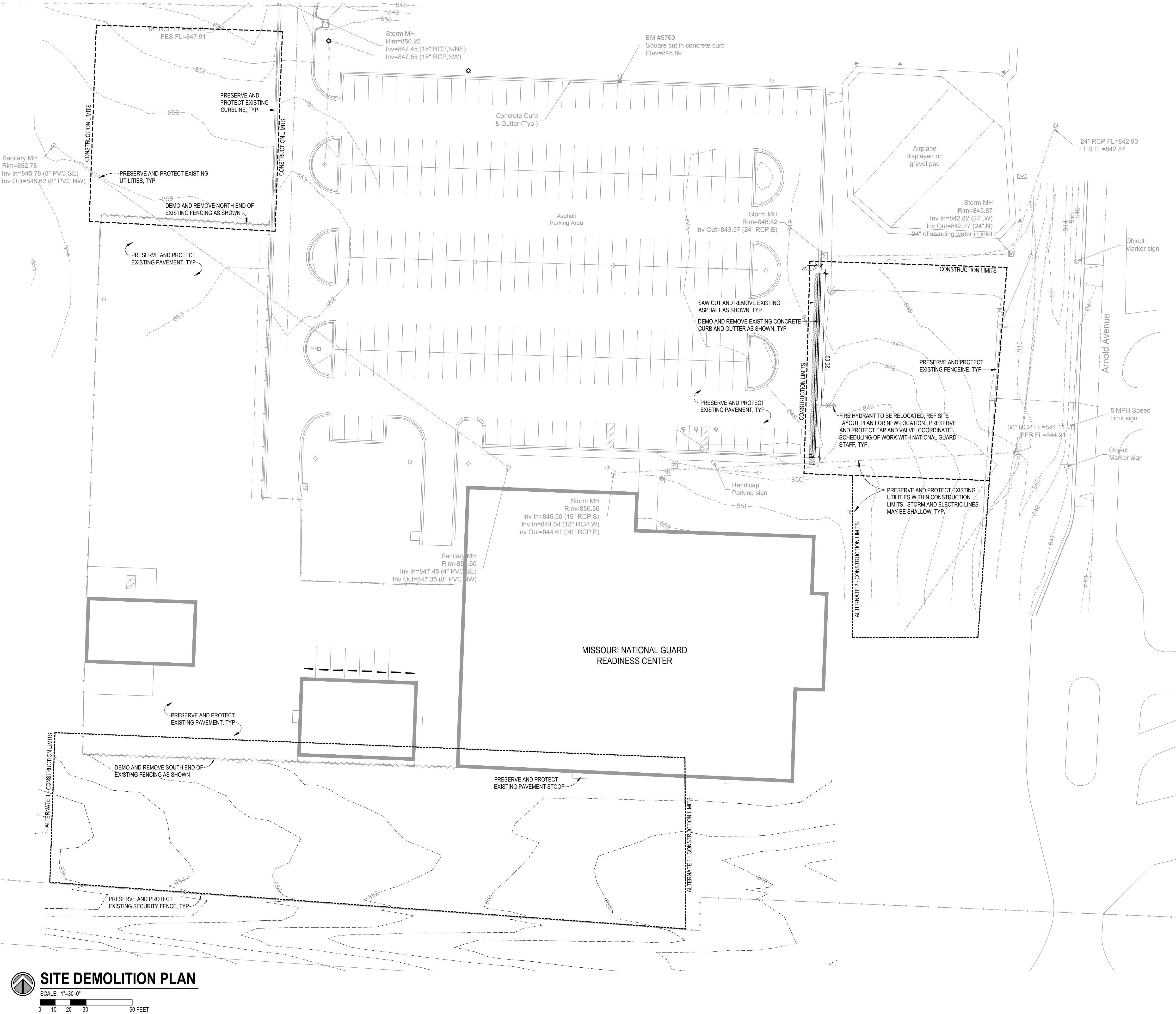
GDRL	GUARD RAIL
GENL	GENERAL
GENL CONTR.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM.	GLUE LAMINATED
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GND	GROUND
GPDM	GYPSUM DRY WALL
GR BM	GRADE BEAM
GR	GRADE
GRG.	GRATING
NTS	NOT TO SCALE
Q/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW DRAIN
OF	OWNER FURNISHED/CONTRACTOR INSTALL
OF	OFFICE
OF	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHEAD DOOR
OPER	OPERABLE
OPNG	OPENING
OP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
OTA	OPEN TO ABOVE
OTB	OPEN TO BELOW
OTS	OPEN TO STRUCTURE
OVHD	OVERHEAD
OXY	OXYGEN
OZ	OUNCE
PIC	PRECAST
PAR	PARALLEL
PARG	PARGING
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCL	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PANEL FABRIC
PFP	PRE-FINISHED PANEL
PGSD	PEGSBOARD
PHASE	PHASE
JAN	JANITOR
JAN	JANITOR'S CLOSET
JST	JOIST
PL	PLATE
PL	PLASTIC LAMINATE
PLM	PLASTIC LAMINATE
PLAT	PLATFORM
PLB	PLUMBING
PLYWD	PLYWOOD
PLG	POLISHED
POLYSTYRENE	POLYSTYRENE
POLYISO	POLYISOCYANURATE
POS.	POSITIVE
PR	PAIR
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
PRKG	PARKING
PROJ	PROJECT
PT	PROJECTION SCREEN
PT	PAINT
LG	LENGTH
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVC	PAVING
PWMT	PAVEMENT
PWR	POWER
QU	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	RISER
RAD	ROUND
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECEIVED
RECD	RECEIVED
RECP	RECEIPT
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCEMENT
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
RFM	RECESSED FLOOR MAT
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RND	ROUND
RO	ROUGH OPENING
RST	RUBBER STAIR TREAD
RT	RUBBER TILE
RV	ROOF VENT
RVS	REVERSE
S	SOUTH
SEAT	SEATING
SALV	SALVAGE
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCMU	SOLID CONCRETE MASONRY UNIT
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SP	SYSTEMS FURNITURE
SG	SINGLE
SHR	SHOWER
SHTHG	SHEATHING
SHVL	SHELVES
SIM	SIMILAR
SL	SLIP JOINT
SK	SINK
SLA	SLATE
SLP	SLOPE

MTG	MEETING
MT	METAL
MTR	MORTAR
MULL	MULLION
MULT	MULTIPLE
MVBL	MOVABLE
N	NORTH
N/A	NOT APPLICABLE
NEG	NEGATIVE
NF	NEAR FACE
NIC	NOT IN CONTACT
NO	NUMBER
NOM.	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
Q/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW DRAIN
OF	OWNER FURNISHED/CONTRACTOR INSTALL
OF	OFFICE
OF	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHEAD DOOR
OPER	OPERABLE
OPNG	OPENING
OP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
OTA	OPEN TO ABOVE
OTB	OPEN TO BELOW
OTS	OPEN TO STRUCTURE
OVHD	OVERHEAD
OXY	OXYGEN
OZ	OUNCE
PIC	PRECAST
PAR	PARALLEL
PARG	PARGING
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCL	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PANEL FABRIC
PFP	PRE-FINISHED PANEL
PGSD	PEGSBOARD
PHASE	PHASE
JAN	JANITOR
JAN	JANITOR'S CLOSET
JST	JOIST
PL	PLATE
PL	PLASTIC LAMINATE
PLM	PLASTIC LAMINATE
PLAT	PLATFORM
PLB	PLUMBING
PLYWD	PLYWOOD
PLG	POLISHED
POLYSTYRENE	POLYSTYRENE
POLYISO	POLYISOCYANURATE
POS.	POSITIVE
PR	PAIR
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
PRKG	PARKING
PROJ	PROJECT
PT	PROJECTION SCREEN
PT	PAINT
LG	LENGTH
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVC	PAVING
PWMT	PAVEMENT
PWR	POWER
QU	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	RISER
RAD	ROUND
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECEIVED
RECD	RECEIVED
RECP	RECEIPT
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCEMENT
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
RFM	RECESSED FLOOR MAT
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RND	ROUND
RO	ROUGH OPENING
RST	RUBBER STAIR TREAD
RT	RUBBER TILE
RV	ROOF VENT
RVS	REVERSE
S	SOUTH
SEAT	SEATING
SALV	SALVAGE
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCMU	SOLID CONCRETE MASONRY UNIT
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SP	SYSTEMS FURNITURE
SG	SINGLE
SHR	SHOWER
SHTHG	SHEATHING
SHVL	SHELVES
SIM	SIMILAR
SL	SLIP JOINT
SK	SINK
SLA	SLATE
SLP	SLOPE

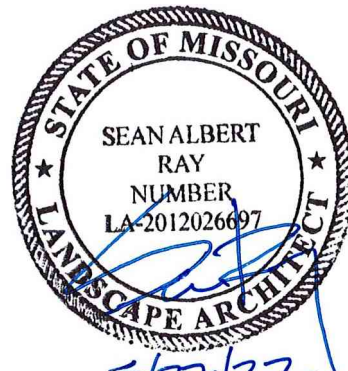
SLS	SUB-FLOOR LEVELING SYSTEM
SLV	SLEEVE
SM	SHEET METAL
SMLS	SEAMLESS
SP	SPACING
SPCL	SPECIAL
SPEC	SPECIFICATION
SPKLR	SPEAKER
SPNR	SPEAKER
SPRT	SUPPORT
SQFT	SQUARE FOOT
SO	SQUARE
SOIN	SQUARE INCH
SOYD	SQUARE YARD
SSK	SERVICE SINK
SS	STAINLESS STEEL
SSM	SOLID SURFACING MATERIAL
ST	STAIN
ST	STREET
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STR	STIRRUP
STL JST	STEEL JOIST
STL PL	STEEL PLATE
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUPPL	SUPPLEMENT
SURF	SURFACE
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVB	SHEET VINYL BASE
SVF	SHEET VINYL FLOOR
SYM	SYMBOL
SYMM	SYMMETRICAL
SYST	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T	TABLE
TB	TACKBOARD
TB-xx	TEST BORING-xx (G, TB-1)
TC	TOP OF CURB
TD	TRENCH DRAIN
TE	TRANSITION EDGE
TECH	TECHNICAL
TEMP	TEMPORARY
TER	TERRAZZO
THR	THICK
THRES	THRESHOLD
THRU	THROUGH
TBDB	TACKBOARD
TL	TILE
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TN	TUNNEL
TO	TOP OF
TOF	TOP OF FLANGE
TOFF	TOP OF FINISH FLOOR
TOL	TOLERANCE
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TWBNKL	TURNBUCKLE
TS	TENSILE STRENGTH
TS	TEEL STEEL
TV	TELEVISION
UDR	UNDER
UDRLMNT	UNDERLAYMENT
UF	UPHOLSTERY FABRIC
UFD	UNDER FLOOR DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
LT	ULTIMATE
UNEX	UNEXCAVATED
UNFN	UNFINISHED
UNF	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URNAL
UTIL	UTILITY
V	VOLT
V	VOLUME
VAC	VARIABLE AIR VOLUME
VAB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VB	VESTIBULE
VIB	VIBRATION
VNR	VENEER
VOI	VOLUME
VT	VAPOR RETARDER
VTV	VINYL TILE
W	VINYL WALL COVERING
W	WITH
W	WALL TO WALL
WC	WATER CLOSET
WC	WATER COVERING
WCPT	WALL CARPET
WD	WOOD
WDO	WOOD DOOR
WDF	WINDOW
WDF	WIDE FLANGE
WF	WOOD FLOORING
WGL	WIRE GLASS
WH	WALL HUNG
WH	WATER HEATER
WHSE	WAREHOUSE
WL	WIND LOAD
WLD	WELDED
WR	WATER RESISTANT
WST	WAINSCOT
W	WEIGHT
WTR	WATER
WTRPRF	WATERPROOFING
WMM	WELDED WIRE MESH
W	CROSS SECTION

GENERAL NOTES:

1. ALL SHOWN UTILITY INFORMATION IS APPROXIMATE, AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CALL THE MISSOURI ONE CALL SYSTEM AT 811.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
3. LOCATE CONSTRUCTION FENCE AS REQUIRED TO SECURE CONSTRUCTION SITE. FENCING MAY EXTEND BEYOND CONSTRUCTION LIMITS AS REQUIRED.



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



PROFESSIONAL SEAL

CLARK &
ENERSEN

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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES,
MANAGEMENT, DESIGN
AND CONSTRUCTION

DEPARTMENT OF
PUBLIC SAFETY

MISSOURI ARMY
NATIONAL GUARD

AASF & COLD STORAGE
HANGAR LED LIGHTING,
POV AND MVC PARKING
EXPANSION

WHITEMAN AIR FORCE
BASE

ONE ATTACK AVENUE
KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258003

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/27/2022

DRAWN BY: SAR
CHECKED BY: SAR
DESIGNED BY: SAR

SHEET TITLE:
Site Demolition Plan

SHEET NUMBER:

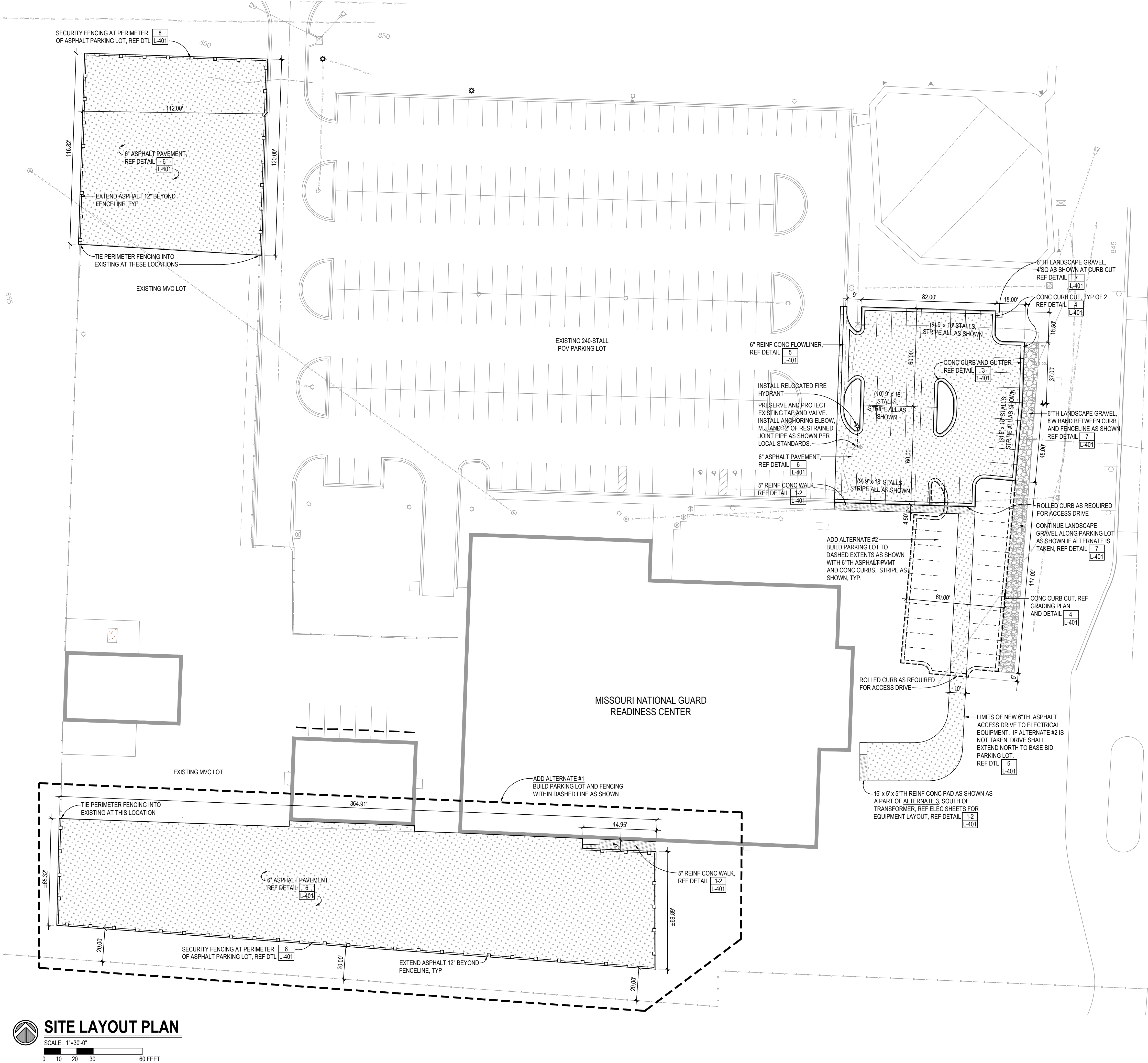
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GENERAL NOTES:

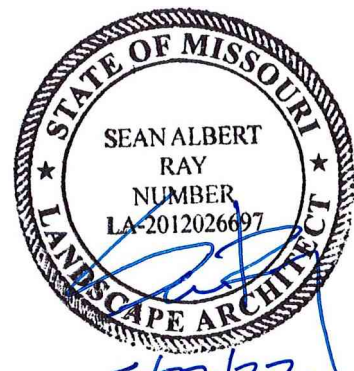
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3. REFERENCE GEOTECHNICAL REPORT AND GRADING SHEETS FOR SITE PREPARATION INFORMATION.

PAVEMENT LEGEND:

- 6" ASPHALT PAVEMENT
- 5" REINF CONC WALK
- 6" GRAVEL PAVEMENT
- 6" LANDSCAPE GRAVEL



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KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258003

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/27/2022

DRAWN BY: SAR
CHECKED BY: SAR
DESIGNED BY: SAR

SHEET TITLE:
Site Layout Plan

SHEET NUMBER:

L-201

EROSION CONTROLS PROCEDURES

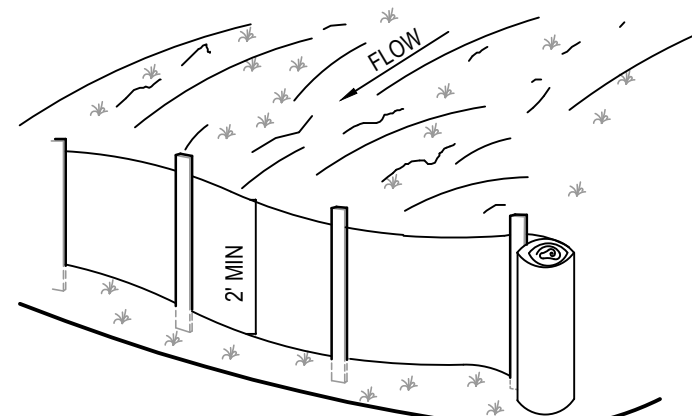
- 1. SEQUENCE OF EROSION CONTROL BMP'S (BEST MANAGEMENT PRACTICES)
 - PRIOR TO GRADING OPERATION, INSTALL ALL SILT FENCE
 - FOLLOWING SOIL DISTURBANCE, DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE REDISTURBED FOR 21 DAYS MUST BE STABILIZED BY THE 14TH DAY AFTER THE LAST DISTURBANCE, EXCEPT AS PRECLUDED BY SNOW COVER. IN THE EVENT OF SNOW COVER, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.
 - MINIMIZE ANY TRACKING OF SOIL ONTO AREAS OF PAVEMENT OUTSIDE OF CONSTRUCTION LIMITS
- 2. THE CONTRACTOR SHALL HAVE A SPILL PREVENTION AND RESPONSE PLAN THAT ADDRESSES FUELING, MAINTENANCE AND STORAGE AREAS ON-SITE INCLUDING A DESCRIPTION OF SAID CONSTRUCTION MATERIALS (WITH UPDATES AS APPROPRIATE). THIS SPILL PREVENTION PLAN SHALL BE MAINTAINED ON THE PROJECT SITE.
- 3. ANY WASTES PRESENT OR GENERATED AT THE SITE SHALL BE TAKEN TO A PERMITTED SANITARY LANDFILL.
- 4. TREAT OR DISPOSE OF SANITARY WATERS THAT ARE GENERATED ON-SITE IN ACCORDANCE WITH STATE OF LOCAL REQUIREMENTS.
- 5. DUST BLOWING CONTROL. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL DUST.
- 6. THE CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT FROM BEHIND SILT FENCES DURING THE LIFE OF THIS CONTRACT. ACCUMULATION OF SEDIMENT MUST NOT BE ALLOWED TO REACH ABOVE HALF THE HEIGHT OF THE FENCE. ALL EROSION CONTROL FEATURES SHALL BE KEPT IN WORKING ORDER DURING THE LIFE OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

INSPECTIONS AND MODIFICATIONS TO THE PLAN

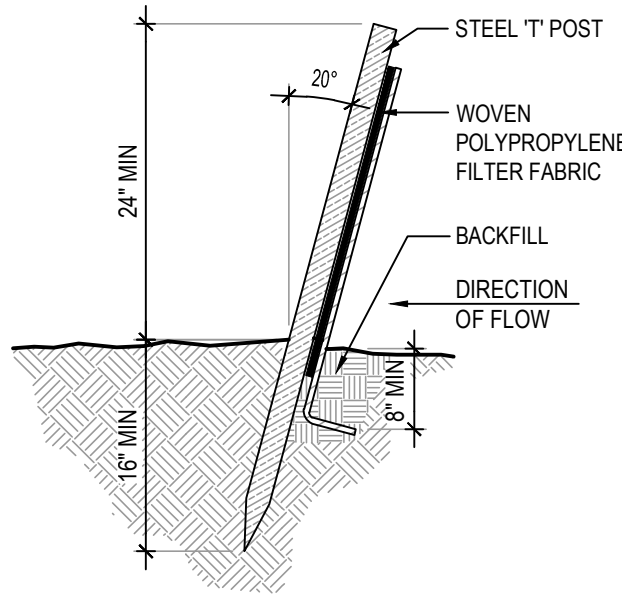
- 1. THE SITE SHALL BE INSPECTED TO IDENTIFY MAINTENANCE NEEDS AND/OR SWPPP DEFICIENCIES ONCE EVERY 7 CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5 INCHES OR GREATER. CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETE AND FINAL STABILIZATION HAS BEEN REACHED. ANY CHANGES THAT MAY BE REQUIRED TO CORRECT DEFICIENCIES IN THE SWPPP NOTED DURING AN INSPECTION SHOULD BE MADE AS SOON AS PRACTICAL AFTER AN INSPECTION BUT IN NO CASE LATER THAN 7 DAYS AFTER THE INSPECTION.
- 2. INSPECTIONS MUST BE CONDUCTED BY QUALIFIED PERSONNEL KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY EROSION AND SEDIMENT CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITY.
- 5. THE EROSION CONTROL PLAN SHALL REMAIN DYNAMIC. IF DEFICIENCIES ARISE DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL IMPLEMENT EFFECTIVE CORRECTIVE ACTIONS.
- 7. A COPY OF THE EROSION CONTROL PLAN MUST BE KEPT AT THE CONSTRUCTION SITE FROM THE TIME CONSTRUCTION BEGINS UNTIL THE SITE HAS REACHED FINAL STABILIZATION.

GENERAL NOTES

- 1. THE CONSTRUCTION MANAGER SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO THE ARCHITECT / OWNER PRIOR TO COMMENCEMENT OF WORK.



1. SINGLE ROW FABRIC SILT FENCE (8' OC POST SPACING MAX) 3' WIDE WOVEN POLYPROPYLENE FABRIC, TRENCH INTO EARTH 8" AND BACKFILL. INSTALLED HEIGHT 2'-0" TYPICAL.



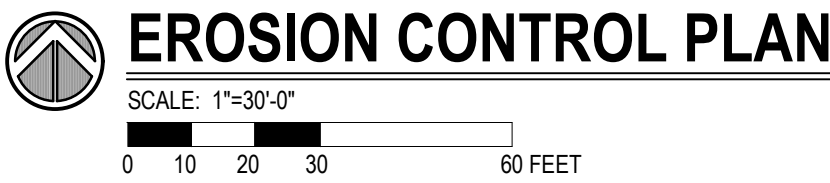
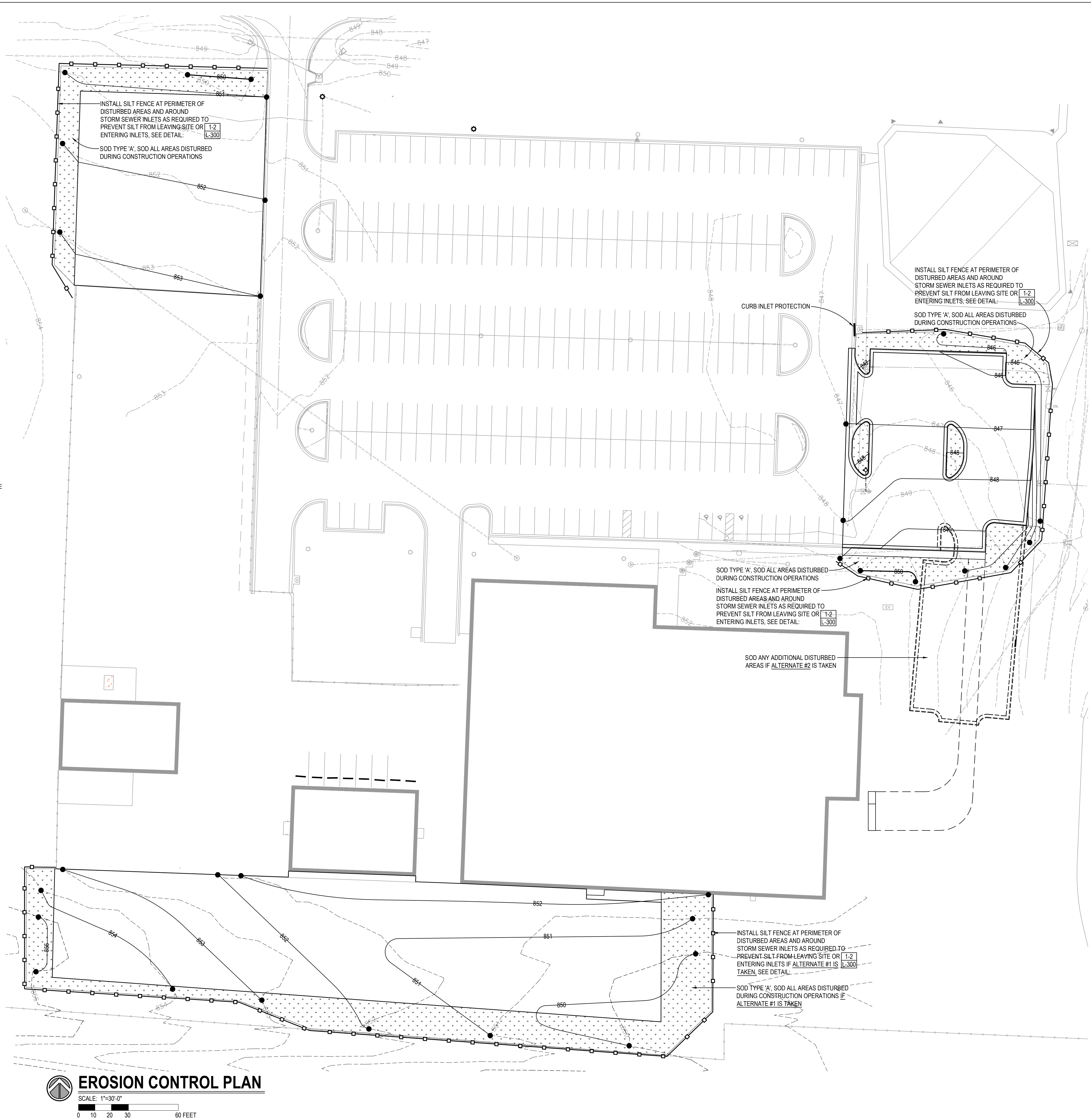
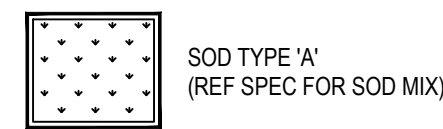
2 SILT FENCE NOT TO SCALE

1 SILT FENCE NOT TO SCALE

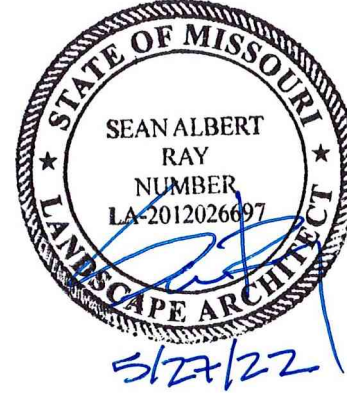
SOD NOTES:

- 1. FINE GRADE AND SOD ANY AREAS DAMAGED BY CONSTRUCTION OPERATIONS NOT OTHERWISE INDICATED ON PLAN, TYP
- 2. PROVIDE 6" TOPSOIL FOR TURF AREAS. EXISTING TOPSOIL SHALL BE STOCKPILED ON-SITE FOR REDISTRIBUTION.

SOD LEGEND:



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



PROFESSIONAL SEAL

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ENERSEN

2020 Baltimore Ave.
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DEPARTMENT OF
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MISSOURI ARMY
NATIONAL GUARD

AASF & COLD STORAGE
HANGAR LED LIGHTING,
POV AND MVC PARKING
EXPANSION

WHITEMAN AIR FORCE
BASE
ONE ATTACK AVENUE
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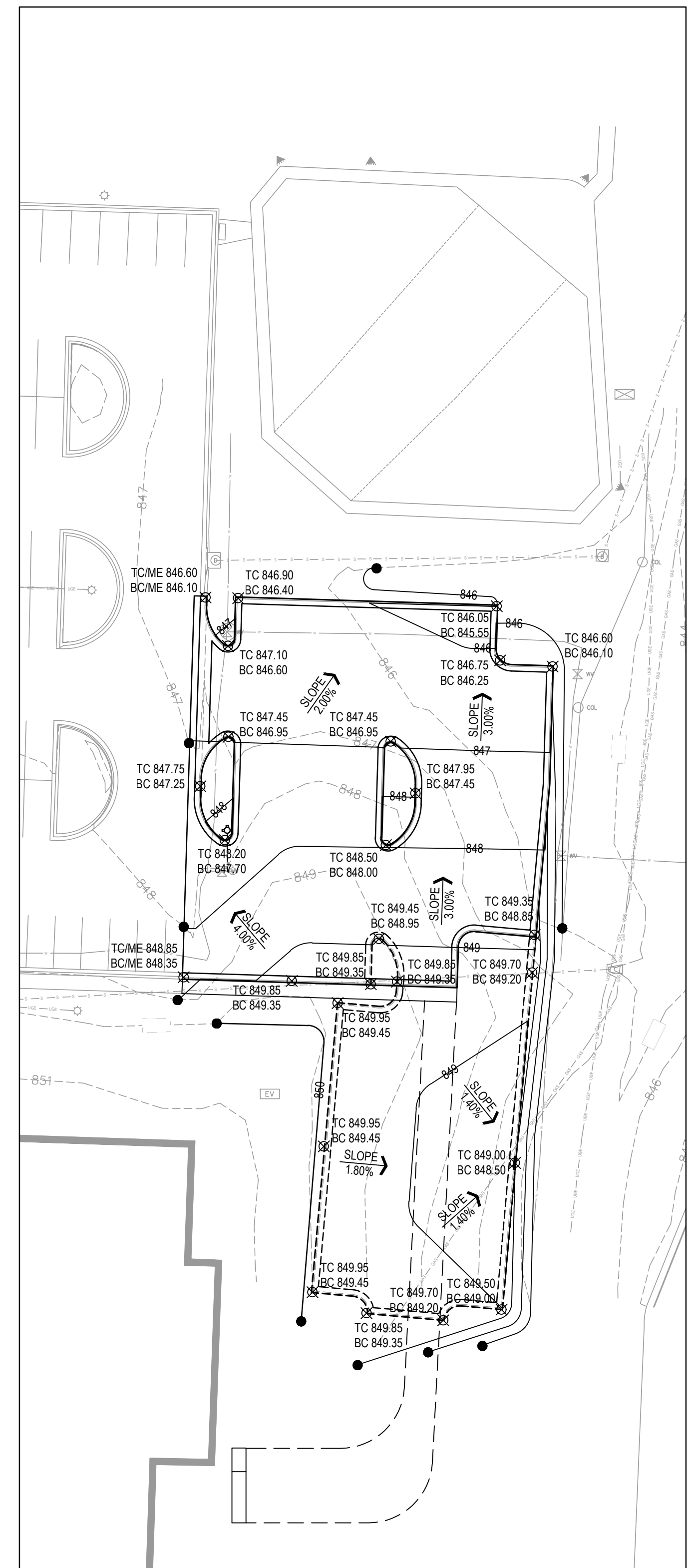
SHEET TITLE:
Erosion Control Plan

SHEET NUMBER:


L-300

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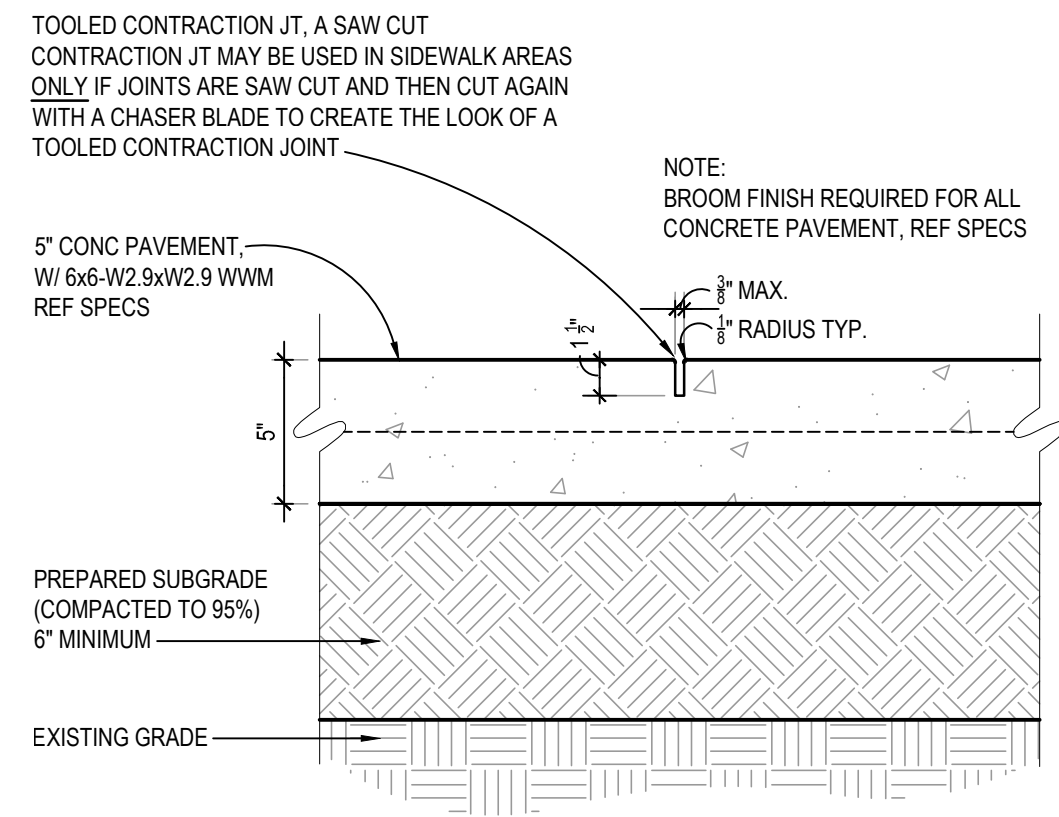
L-301



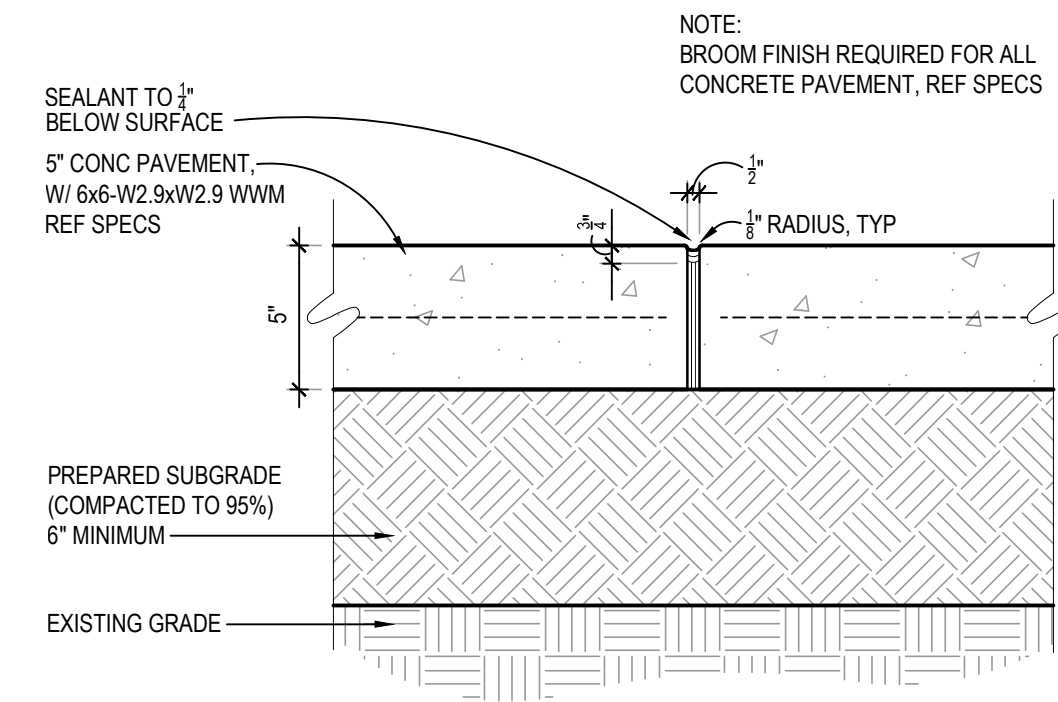
SCALE: 1"=30'-0"



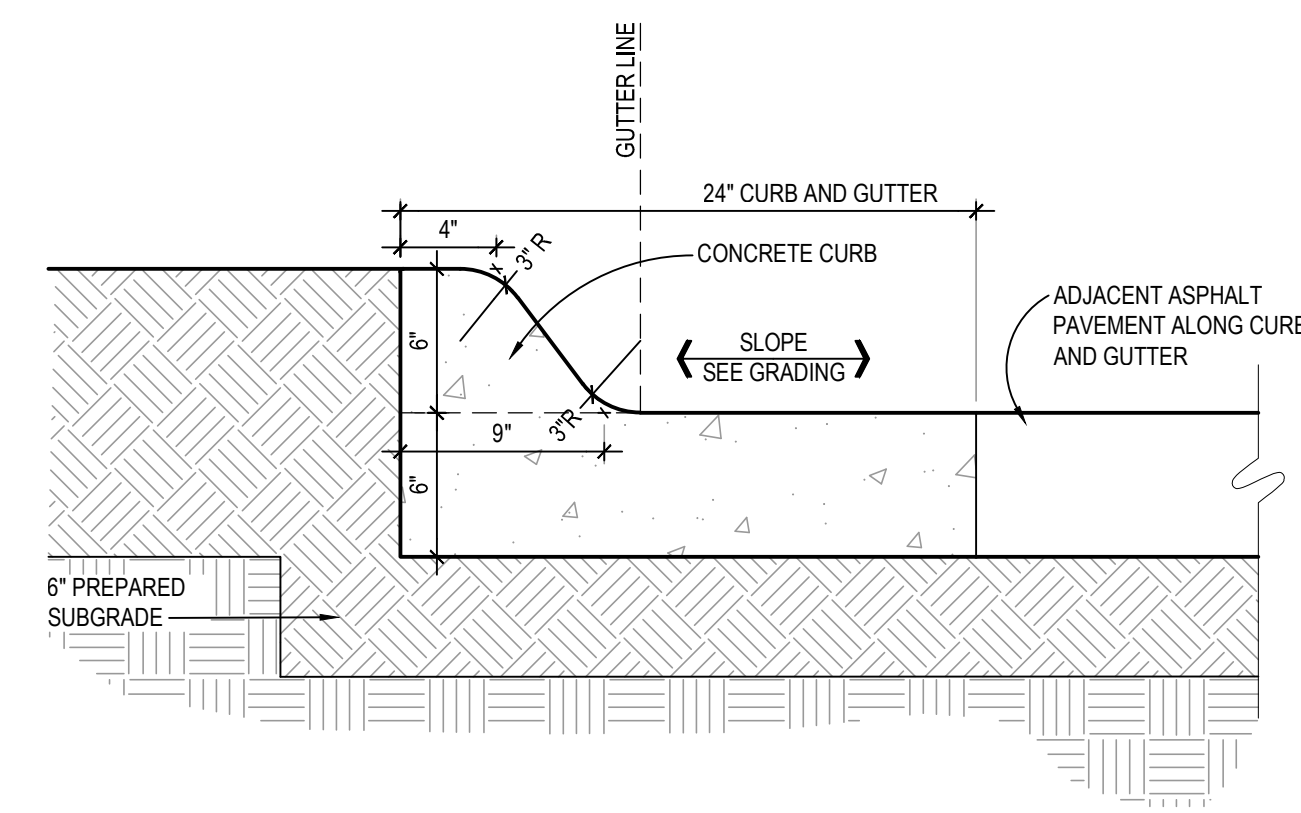
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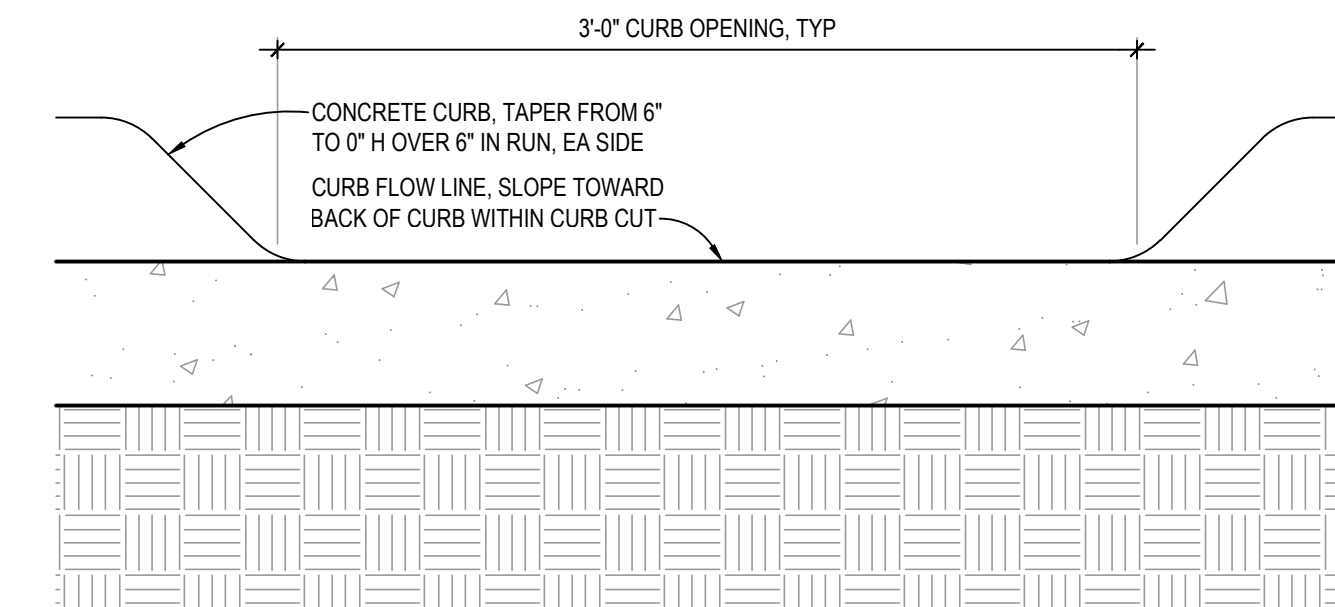
1 **CONC. CONTRACTION JOINT**
SCALE: 1 1/2"=1'-0"



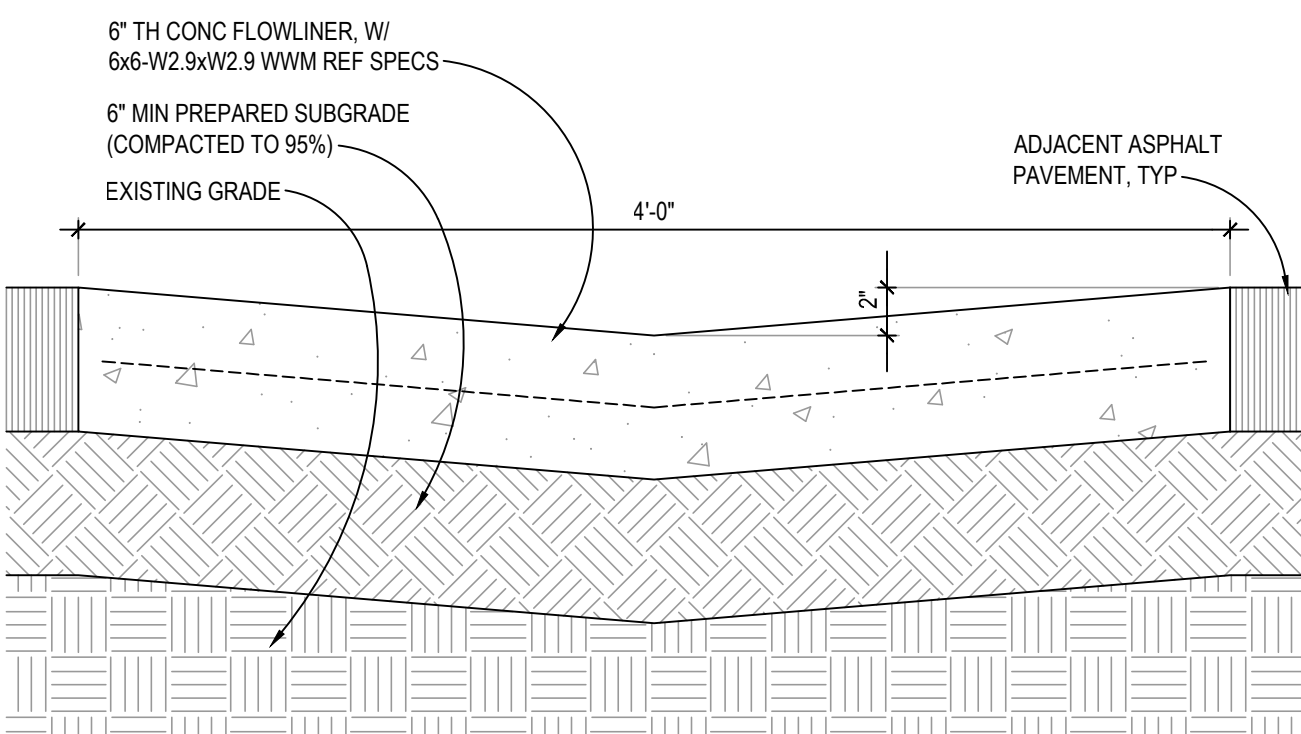
2 **CONCRETE EXPANSION JOINT**
SCALE: 1 1/2"=1'-0"
(LOCATED AT 50' INTERVALS, OR WHERE WALKS
ABUT STAIRS, BUILDINGS, STOOPS, ETC.)



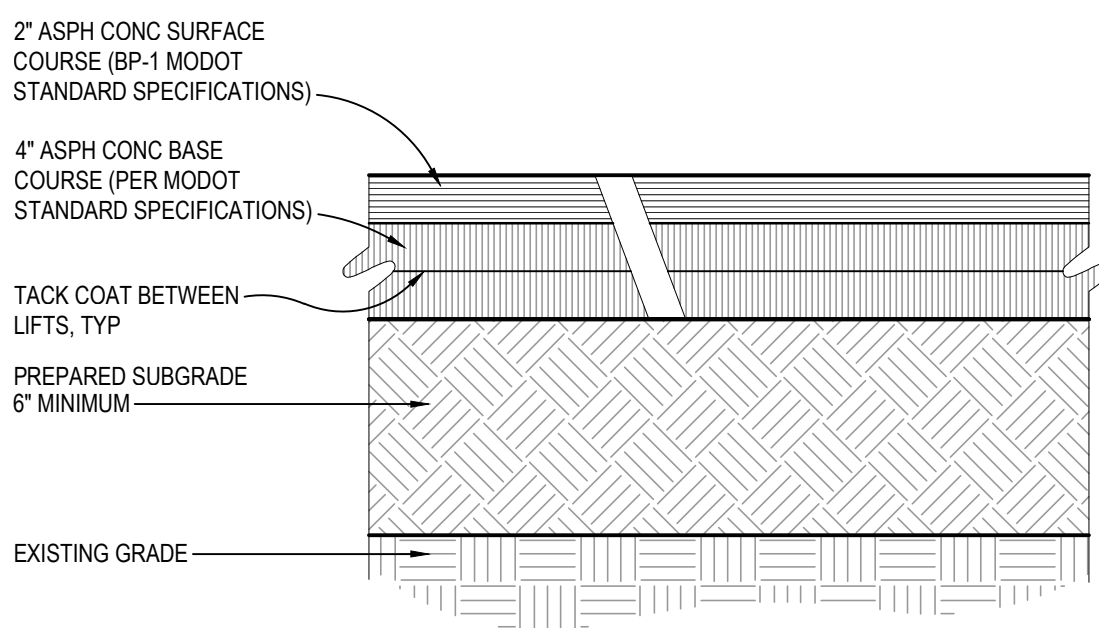
3 **CONC CURB AND GUTTER**
SCALE: 1 1/2"=1'-0"



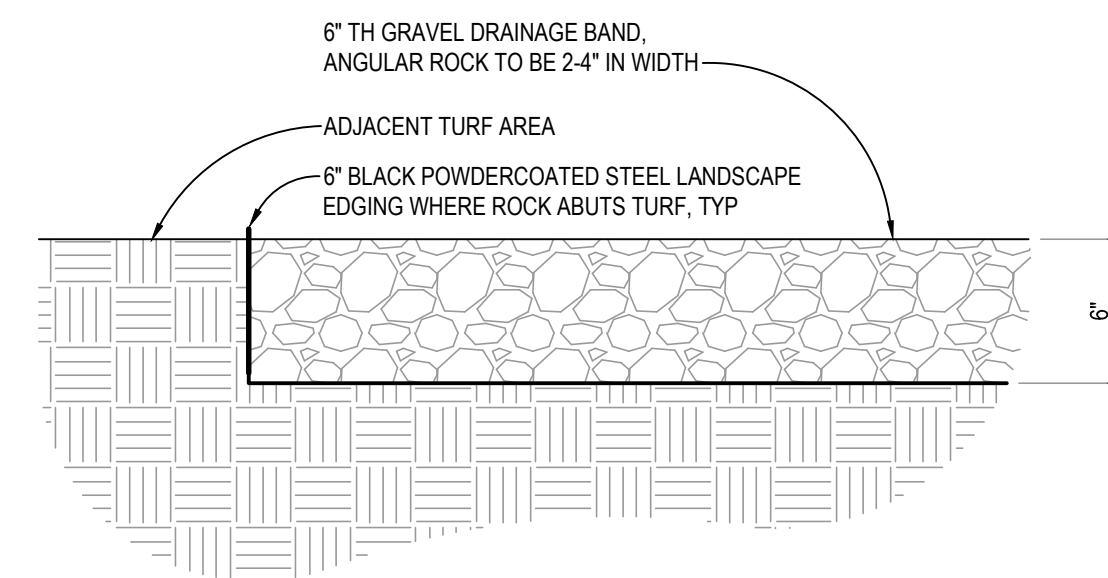
4 **CONC CURB CUT**
SCALE: 1 1/2"=1'-0"



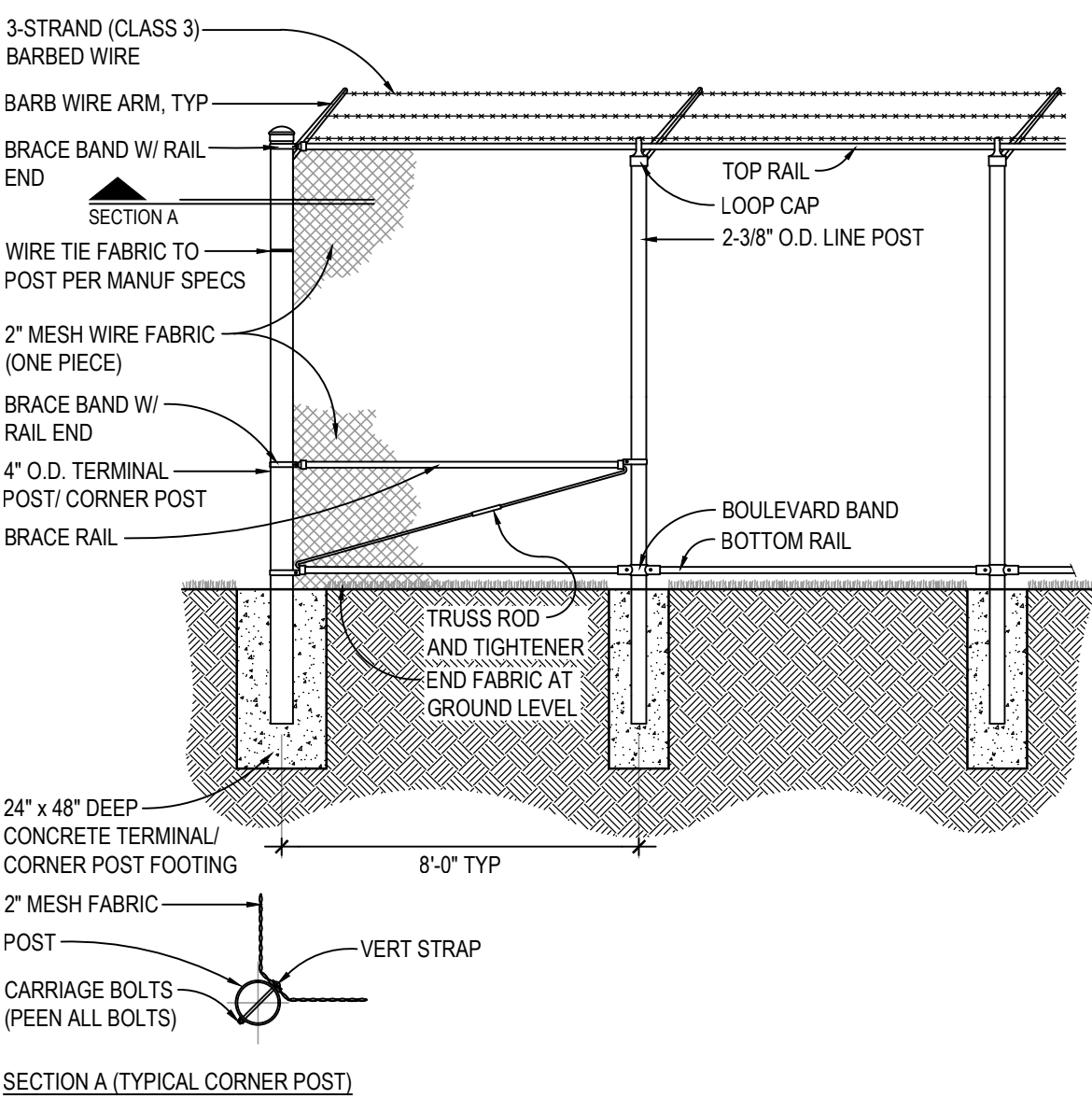
5 **CONC FLOWLINER**
SCALE: 1 1/2"=1'-0"



6 **ASPHALT PAVEMENT**
SCALE: 1 1/2"=1'-0"

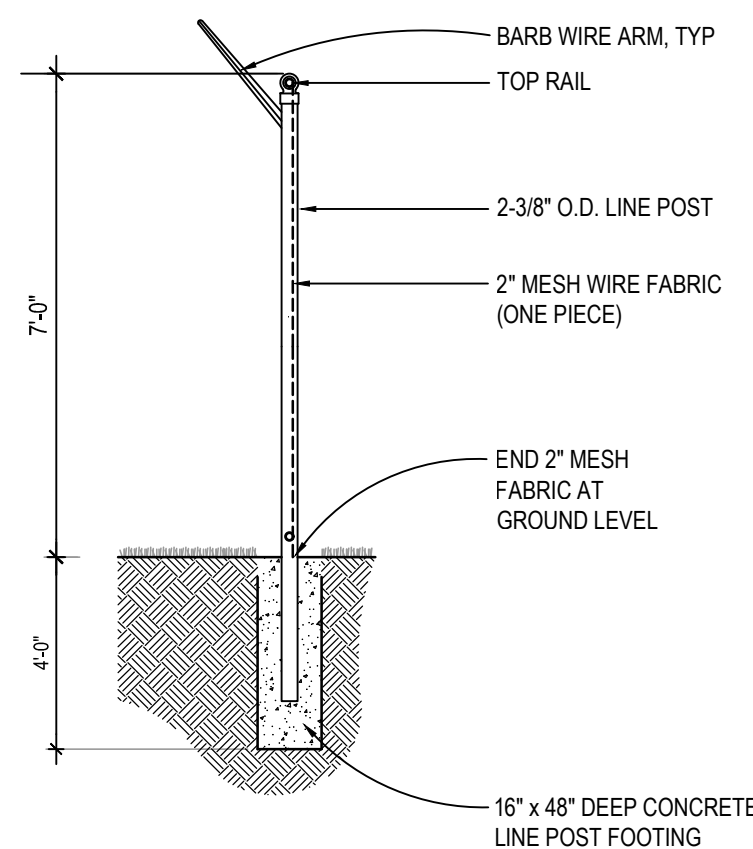


7 **LANDSCAPE GRAVEL**
SCALE: 1 1/2"=1'-0"



SECTION A (TYPICAL CORNER POST)

8 **CHAIN LINK FENCE**
SCALE: 1/4"=1'-0"



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


























































SHEET TITLE:
Site Details

SHEET NUMBER:

L-401

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05/27/2022

ELECTRICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS		LIGHTING	ELECTRICAL DISTRIBUTION	ELECTRICAL DISTRIBUTION EQUIPMENT	
AFF	ABOVE FINISHED FLOOR	 POLE MOUNTED EXTERIOR LIGHT FIXTURE. LETTER INDICATES FIXTURE AND POLE TYPE.	S	SINGLE POLE SWITCH	 LIGHTING AND APPLIANCE PANEL
AFG	ABOVE FINISH GRADE	 LINEAR FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE.	S ₂	TWO POLE SWITCH	 (LIGHTING) RELAY PANEL
C	SUBSCRIPT 'C' ADJACENT TO ANY DEVICE INDICATES CEILING.	 LINEAR FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S ₃	THREE WAY SWITCH	 MOTOR CONTROL CENTER OR SWITCHBOARD
CATV	CABLE TELEVISION	 2 X 4 TROFFER. LETTERNUMBER DENOTES FIXTURE TYPE.	S ₄	FOUR WAY SWITCH	 POWER PANEL (DISTRIBUTION)
CCTV	CLOSED CIRCUIT TELEVISION	 2 X 4 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S _D	SINGLE POLE SWITCH WITH PILOT LIGHT	 TRANSFORMER
DAS	DISTRIBUTED ANTENNA SYSTEM	 1 X 4 TROFFER. LETTERNUMBER DENOTES FIXTURE TYPE.	S _D	DIMMER SWITCH	 CIRCUIT BREAKER
(E)	SUBSCRIPT 'E' ADJACENT TO ANY DEVICE INDICATES EXISTING.	 1 X 4 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S _{MC}	MOMENTARY CONTACT SWITCH	 FUSIBLE SWITCH
EPO	EMERGENCY POWER OFF	 2 X 2 TROFFER. LETTERNUMBER DENOTES FIXTURE TYPE.	S _{TE}	THERMAL ELEMENT SWITCH	 AUTOMATIC TRANSFER SWITCH
(ER)	SUBSCRIPT 'ER' ADJACENT TO ANY DEVICE INDICATES EXISTING TO BE RELOCATED.	 2 X 2 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S _K	KEYED SWITCH	 POTENTIAL TRANSFORMER
EWC	ELECTRIC WATER COOLER	 2 X 2 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S _O	OCCUPANCY SENSING SWITCH, WATTSTOPPER #DW-100-G	 CURRENT TRANSFORMER
F	SUBSCRIPT 'F' ADJACENT TO ANY DEVICE INDICATES FLOOR.	 2 X 2 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S _T	LINE VOLTAGE DIGITAL TIMER SWITCH, WATTSTOPPER #TS-400	 GROUND
GFI	GROUND FAULT INTERRUPTER	 2 X 2 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE.	S _{3T}	LINE VOLTAGE 3-WAY DIGITAL TIMER SWITCH, WATTSTOPPER #TS-400	 ENGINE GENERATOR
H	SUBSCRIPT 'H' DENOTES HOSPITAL GRADE	 2 X 4 SURFACE OR PENDANT MOUNTED FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	S _X	SPST EXPLOSION PROOF SWITCH	 REMOTE GENERATOR ANNUNCIATOR
HOA	HAND-OFF-AUTO	 2 X 4 SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	S _X	DPST EXPLOSION PROOF SWITCH	 METER
N.C.	NORMALLY CLOSED	 2 X 4 TROFFER RECESSED IN GWB OR PLASTER CEILING. LETTER DENOTES FIXTURE TYPE.	Φ	20A, 125V DOUBLE DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)	 PANELBOARD TAG. SEE THE CORRESPONDING PANELBOARD SCHEDULE AND/OR ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
NF	NON-FUSED	 2 X 4 TROFFER RECESSED IN GWB OR PLASTER CEILING. LETTER DENOTES FIXTURE TYPE.	Φ _{USB}	20A, 125V DOUBLE DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R) WITH USB CHARGING PORTS.	
NIC	NOT IN CONTRACT	 2 X 4 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. RECESSED IN GWB OR PLASTER CEILING. LETTER DENOTES FIXTURE TYPE.	Φ _{USB}	20A, 125V DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R) WITH USB CHARGING PORTS.	
NL	24 HOUR "NIGHT LIGHT"	 SURFACE OR PENDANT MOUNTED FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ	20A, 125V SIMPLEX OUTLET (NEMA 5 - 20R)	
N.O.	NORMALLY OPEN	 SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ	20A, 125V RED DUPLEX CONVENIENCE OUTLET ON EMERGENCY SYSTEM (NEMA 5 - 20R)	
OHE	OVERHEAD ELECTRICAL	 2 X 2 SURFACE OR PENDANT MOUNTED FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ _Φ	20A, 125V DUPLEX CONVENIENCE OUTLET - CEILING AND FLOOR MOUNTED (NEMA 5 - 20R)	
OHT	OVERHEAD TELEPHONE	 2 X 2 SURFACE OR PENDANT MOUNTED FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ _Φ	SPECIAL PURPOSE OUTLET. TYPE AS NOTED ON DRAWINGS.	
PVC	POLYVINYL CHLORIDE	 2 X 2 SURFACE OR PENDANT MOUNTED FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ _Φ	20A, 125V SAFETY DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)	
(R)	SUBSCRIPT 'R' ADJACENT TO ANY DEVICE INDICATES THE RELOCATED POSITION OF AN EXISTING DEVICE.	 2 X 2 SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ _Φ	SURFACE MOUNTED RACEWAY. TYPE AND NUMBER OF DEVICES AS INDICATED, REFER TO SPECIFICATION AND DETAIL.	
RGS	RIGID GALVANIZED STEEL	 WALL MOUNTED FIXTURE. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Φ _Φ	SURFACE MOUNTED RACEWAY (RED OUTLETS ON STANDBY SYSTEM). TYPE AND NUMBER OF DEVICES AS INDICATED, REFER TO SPECIFICATION AND DETAIL.	
(S)	SUBSCRIPT 'S' ADJACENT TO ANY DEVICE INDICATES THE DEVICE IS TO BE SURFACE MOUNTED.	 WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTERNUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	Σ	PITGALT DENOTES CONNECTION TO EQUIPMENT	
TR	TAMPER RESISTANT	 1 X 4 TROFFER RECESSED IN GWB OR PLASTER CEILING. LETTER DENOTES FIXTURE TYPE.	▽ _Φ	2 GANG TELECOMMUNICATIONS OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. ROUTE (1) 1" CONDUIT. CONCEALED. FROM BOX AND STUB ABOVE THE NEAREST ACCESSIBLE CEILING. BUSH CONDUIT ENDS.	
UGE	UNDERGROUND ELECTRICAL	 1 X 4 TROFFER WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. RECESSED IN GWB OR PLASTER CEILING. LETTER DENOTES FIXTURE TYPE.	▽ _Φ	2 GANG DATA OUTLET BOX AND COVERPLATE WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. ROUTE (1) 1" CONDUIT. CONCEALED. FROM BOX AND STUB ABOVE THE NEAREST ACCESSIBLE CEILING. BUSH CONDUIT ENDS.	
USB	UNIVERSAL SERIAL BUS	 STRIP FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	▽	2 GANG TELECOMMUNICATIONS DATA OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. ROUTE (1) 1" CONDUIT. CONCEALED. FROM BOX AND STUB ABOVE THE NEAREST ACCESSIBLE CEILING. BUSH CONDUIT ENDS.	
HVE	UNDERGROUND MEDIUM OR HIGH VOLTAGE ELECTRICAL	 STRIP FIXTURE WITH EMERGENCY BATTERY BACKUP AND/OR ON EM CIRCUIT. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	////	TELEPHONE TERMINAL, BOARD OR TERMINAL CABINET - SIZE AND TYPE AS INDICATED (TTB OR TTC).	
UGT	UNDERGROUND TELEPHONE	 RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND MOUNTING HEIGHT.	 BRANCH CIRCUIT HOMERUN TO PANEL. (NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES) (NUMBER 12AWG, MINIMUM, UNLESS OTHERWISE NOTED). IF NO TICK MARKS ARE SHOWN, ASSUME 3-NUMBER 12 AWG IN 3/4" CONDUIT.		
WAP	WIRELESS ACCESS POINT	 RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND MOUNTING HEIGHT.	 CONDUIT AND WIRE CONCEALED. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES. (NUMBER 12AWG MINIMUM, UNLESS OTHERWISE NOTED). IF NO TICK MARKS ARE SHOWN, ASSUME 3-NUMBER 12 IN 3/4" CONDUIT.		
WG	WIRE GUARD	 WALL MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT.	 PARTIAL CIRCUIT		
WP	WEATHERPROOF	 WALL MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT.	 CONDUIT RISER UP		
WPU	WEATHERPROOF IN-USE TYPE	 BATTERY POWERED EMERGENCY LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE ON DRAWINGS FOR FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.	 CONDUIT RISER DOWN		
////	CROSS-HATCHING INDICATES REMOVAL	 WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)	 INDICATES BUSH AND CAP		
		 CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)	 CONDUIT SEAL FITTING FOR HAZARDOUS AREAS		
			 CONDUIT STUBBED UP 6" AFF AND CAPPED		

PROJECT GENERAL ELECTRICAL NOTES

GENERAL DEMOLITION NOTES:

- ALL OF THE DEVICES SHOWN ON THE DEMOLITION PLANS ARE EXISTING. THE LOCATIONS OF EXISTING EQUIPMENT AND DEVICES WERE OBTAINED FROM PREVIOUS DRAWINGS AND SITE VISITS. THE LOCATIONS OF EXISTING EQUIPMENT AND DEVICES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.
- THE CONTRACTOR MUST FIELD VERIFY EXISTING CIRCUITING PRIOR TO COMMENCING ANY WORK. ALL BIDS MUST INCORPORATE THIS REQUIREMENT.
- DEVICES SHOWN WITH CROSS HATCHING, DASHED AND/OR SO NOTED SHALL BE REMOVED. ALL OTHER DEVICES SHALL BE RELOCATED, SHALL REMAIN, OR SHALL BE ABANDONED AS SHOWN, OR AS FOLLOWS:
DEVICES SHALL BE COMPLETELY REMOVED FROM WALLS THAT ARE ALSO SHOWN TO BE REMOVED. DEVICES SHOWN TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. FLUSH TYPE DEVICES SHOWN TO BE REMOVED ON CONCRETE OR BRICK TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE DEVICES REMOVED AND BOXES PROVIDED WITH BLANK COVER PLATES.
- CONCEALED CONDUITS MAY BE ABANDONED IN WALLS THAT ARE TO REMAIN. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE REMOVED.
- THE CONDUCTORS FOR DEVICES SHOWN TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED BACK TO THE PANEL OR BACK TO THE NEXT DEVICE SHOWN TO REMAIN OR AS REQUIRED BY ACTUAL CIRCUITING. ACTUAL CIRCUITING MUST BE DETERMINED IN THE FIELD. ALL BIDS SHOULD INCORPORATE THIS REQUIREMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AS A RESULT OF EXISTING CIRCUITING. CONTINUITY OF CIRCUITING SHALL BE MAINTAINED FOR ALL EXISTING CIRCUITS AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRE, CONDUIT, DEVICES AND CONNECTIONS TO ENSURE CIRCUIT CONTINUITY TO ALL NEW AND EXISTING EQUIPMENT.
- THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL, THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- THE OWNER WILL OCCUPY PORTIONS OF THE FACILITY THROUGHOUT CONSTRUCTION. ELECTRICAL SYSTEMS TO OCCUPIED PORTIONS OF THE FACILITY MUST REMAIN IN OPERATION. THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL PHASING REQUIREMENTS WITH THE GENERAL CONTRACTOR AND THE OWNER, AND MUST PROVIDE ALL NECESSARY DEVICES, EQUIPMENT, WIRE, CONDUIT, AND CONNECTIONS TO ENSURE PHASING AND OWNER OCCUPANCY REQUIREMENTS ARE SATISFIED. ALL BIDS SHOULD INCORPORATE THIS REQUIREMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ISSUES AND CHANGES WHICH OCCUR AS A RESULT OF PHASING AND OWNER OCCUPANCY REQUIREMENTS.

GENERAL LIGHTING NOTES:

- COORDINATE THE INSTALLATION OF LIGHTING FIXTURES WITH ALL OTHER TRADES.
- COORDINATE THE INSTALLATION OF ALL RECESSED LIGHTING FIXTURES WITH ACTUAL CEILING TYPES. REFER TO ARCHITECTURAL FINISH SCHEDULES FOR ADDITIONAL DETAILS.
- SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.
- ROUTE ALL WIRE AND CONDUIT CONCEALED UNLESS OTHERWISE NOTED. PATCH ALL EXISTING SURFACES AFTER WIRE AND CONDUIT INSTALLATION, AS REQUIRED. REFER TO THE SPECIFICATION FOR CUTTING AND PATCHING REQUIREMENTS. ALL COSTS ASSOCIATED WITH ABOVE REQUIREMENTS MUST BE INCLUDED IN THE PROJECT BID.
- FLUSH MOUNT ALL NEW WIRING DEVICES IN NEW OR EXISTING SURFACES. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL, THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- IN ROOMS WHERE NO FIXTURES ARE SHOWN, THE EXISTING LIGHTING LAYOUT AND CIRCUITING TO REMAIN.
- LOCATE PHOTOCELL DEVICES FOR CONTROL OF EXTERIOR LIGHTING FIXTURES, ON THE ROOF AT A LOCATION WHICH CANNOT BE SEEN FROM GRADE LEVEL. PROVIDE WP DEVICES AND BOXES.
- A DEDICATED NEUTRAL CONDUCTOR IS REQUIRED FOR ALL DIMMABLE CIRCUITS.
- BOX AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIALS, THERMAL INSULATION, ETC AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- PROVIDE ENCLOSURES OVER RECESSED LIGHTING FIXTURES INSTALLED IN RATED CEILINGS SO ALL CODE REQUIRED RATINGS ARE MAINTAINED. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND RATINGS. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

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AASF COLD STORAGE
HANGAR LED LIGHTING,
POV AND MVC PARKING
EXPANSION

WHITEMAN AIR FORCE
BASE

ONE ATTACK AVENUE
KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258001 &
8136258003

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 05/27/2022

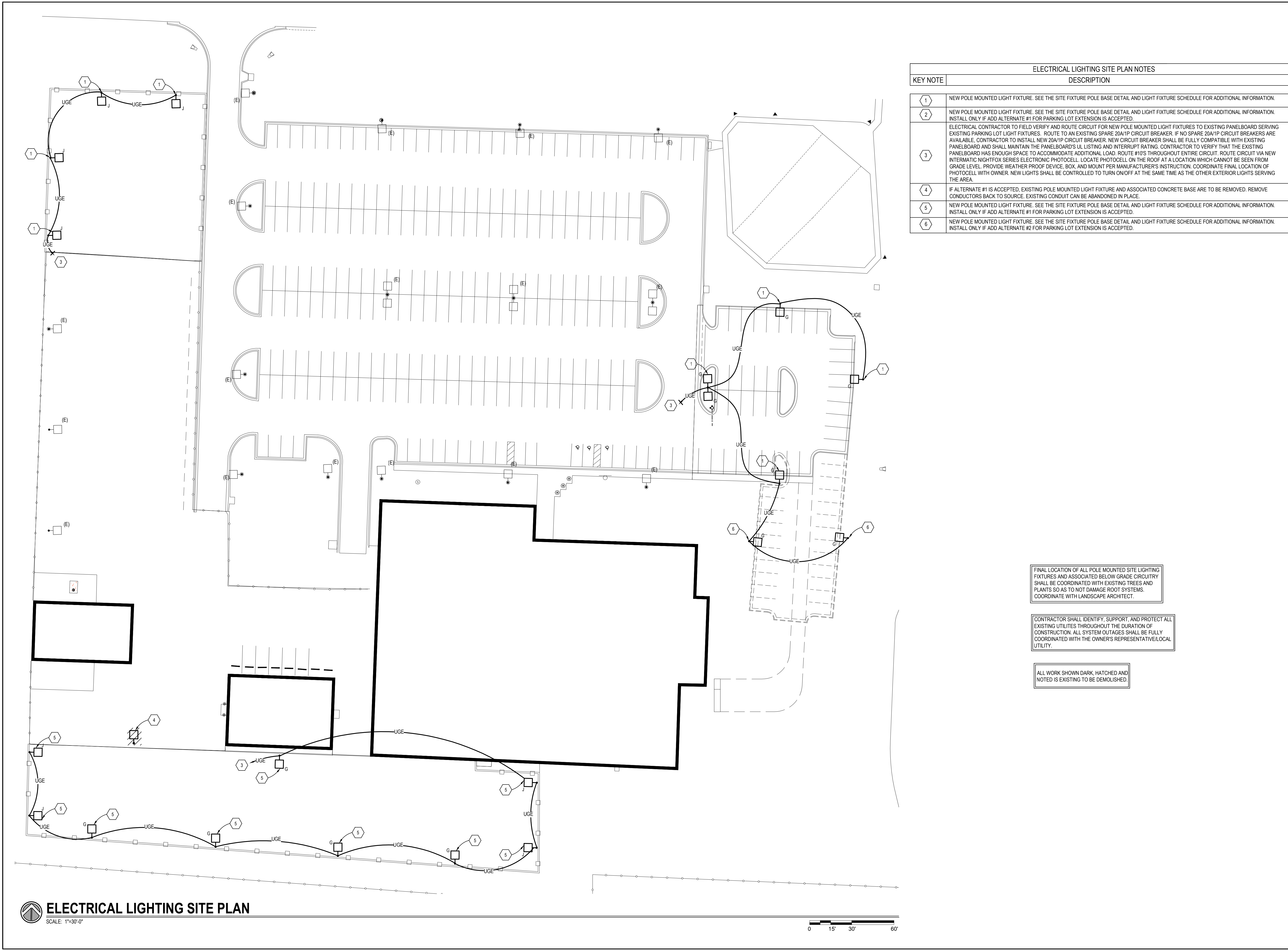
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CHECKED BY: BA
DESIGNED BY: HB

SHEET TITLE:

Electrical Abbreviations,
Symbols Legend, &
General Notes

SHEET NUMBER:

E-000



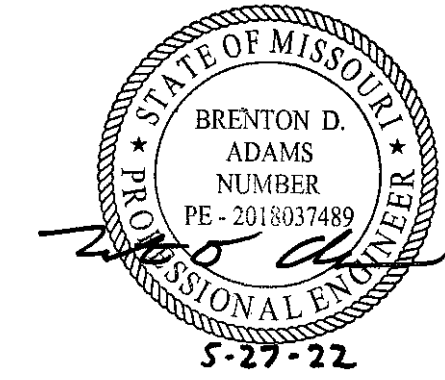
ELECTRICAL LIGHTING SITE PLAN NOTES	
KEY NOTE	DESCRIPTION
1	NEW POLE MOUNTED LIGHT FIXTURE. SEE THE SITE FIXTURE POLE BASE DETAIL AND LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
2	NEW POLE MOUNTED LIGHT FIXTURE. SEE THE SITE FIXTURE POLE BASE DETAIL AND LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. INSTALL ONLY IF ADD ALTERNATE #1 FOR PARKING LOT EXTENSION IS ACCEPTED.
3	ELECTRICAL CONTRACTOR TO FIELD VERIFY AND ROUTE CIRCUIT FOR NEW POLE MOUNTED LIGHT FIXTURES TO EXISTING PANELBOARD SERVING EXISTING PARKING LOT LIGHT FIXTURES. ROUTE TO AN EXISTING SPARE 20A/1P CIRCUIT BREAKER. IF NO SPARE 20A/1P CIRCUIT BREAKERS ARE AVAILABLE, CONTRACTOR TO INSTALL NEW 20A/1P CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL BE FULLY COMPATIBLE WITH EXISTING PANELBOARD AND SHALL MAINTAIN THE PANELBOARD'S UL LISTING AND INTERRUPT RATING. CONTRACTOR TO VERIFY THAT THE EXISTING PANELBOARD HAS ENOUGH SPACE TO ACCOMMODATE ADDITIONAL LOAD. ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT. ROUTE CIRCUIT VIA NEW INTERMATIC NIGHTFOX SERIES ELECTRONIC PHOTOCELL. LOCATE PHOTOCELL ON THE ROOF AT A LOCATION WHICH CANNOT BE SEEN FROM GRADE LEVEL. PROVIDE WEATHER PROOF DEVICE, BOX, AND MOUNT PER MANUFACTURER'S INSTRUCTION. COORDINATE FINAL LOCATION OF PHOTOCELL WITH OWNER. NEW LIGHTS SHALL BE CONTROLLED TO TURN ON/OFF AT THE SAME TIME AS THE OTHER EXTERIOR LIGHTS SERVING THE AREA.
4	IF ALTERNATE #1 IS ACCEPTED, EXISTING POLE MOUNTED LIGHT FIXTURE AND ASSOCIATED CONCRETE BASE ARE TO BE REMOVED. REMOVE CONDUCTORS BACK TO SOURCE. EXISTING CONDUIT CAN BE ABANDONED IN PLACE.
5	NEW POLE MOUNTED LIGHT FIXTURE. SEE THE SITE FIXTURE POLE BASE DETAIL AND LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. INSTALL ONLY IF ADD ALTERNATE #1 FOR PARKING LOT EXTENSION IS ACCEPTED.
6	NEW POLE MOUNTED LIGHT FIXTURE. SEE THE SITE FIXTURE POLE BASE DETAIL AND LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. INSTALL ONLY IF ADD ALTERNATE #2 FOR PARKING LOT EXTENSION IS ACCEPTED.

FINAL LOCATION OF ALL POLE MOUNTED SITE LIGHTING FIXTURES AND ASSOCIATED BELOW GRADE CIRCUITRY SHALL BE COORDINATED WITH EXISTING TREES AND PLANTS SO AS TO NOT DAMAGE ROOT SYSTEMS. COORDINATE WITH LANDSCAPE ARCHITECT.

CONTRACTOR SHALL IDENTIFY, SUPPORT, AND PROTECT ALL EXISTING UTILITIES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL SYSTEM OUTAGES SHALL BE FULLY COORDINATED WITH THE OWNER'S REPRESENTATIVE/LOCAL UTILITY.

ALL WORK SHOWN DARK, HATCHED AND NOTED IS EXISTING TO BE DEMOLISHED.

STATE OF MISSOURI
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HANGAR LED LIGHTING,
POV AND MVC PARKING
EXPANSION

WHITEMAN AIR FORCE
BASE

ONE ATTACK AVENUE
KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258
ASSET #: 8136258001

REVISION:	_____
DATE:	_____
REVISION:	_____
DATE:	_____
REVISION:	_____
DATE:	_____

ISSUE DATE: 05/27/2022

DRAWN BY: BS
CHECKED BY: BA
DESIGNED BY: BS

SHEET TITLE:
Electrical Lighting Site
Plan

SHEET NUMBER:
E-001

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05/27/2022

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EXPANSION

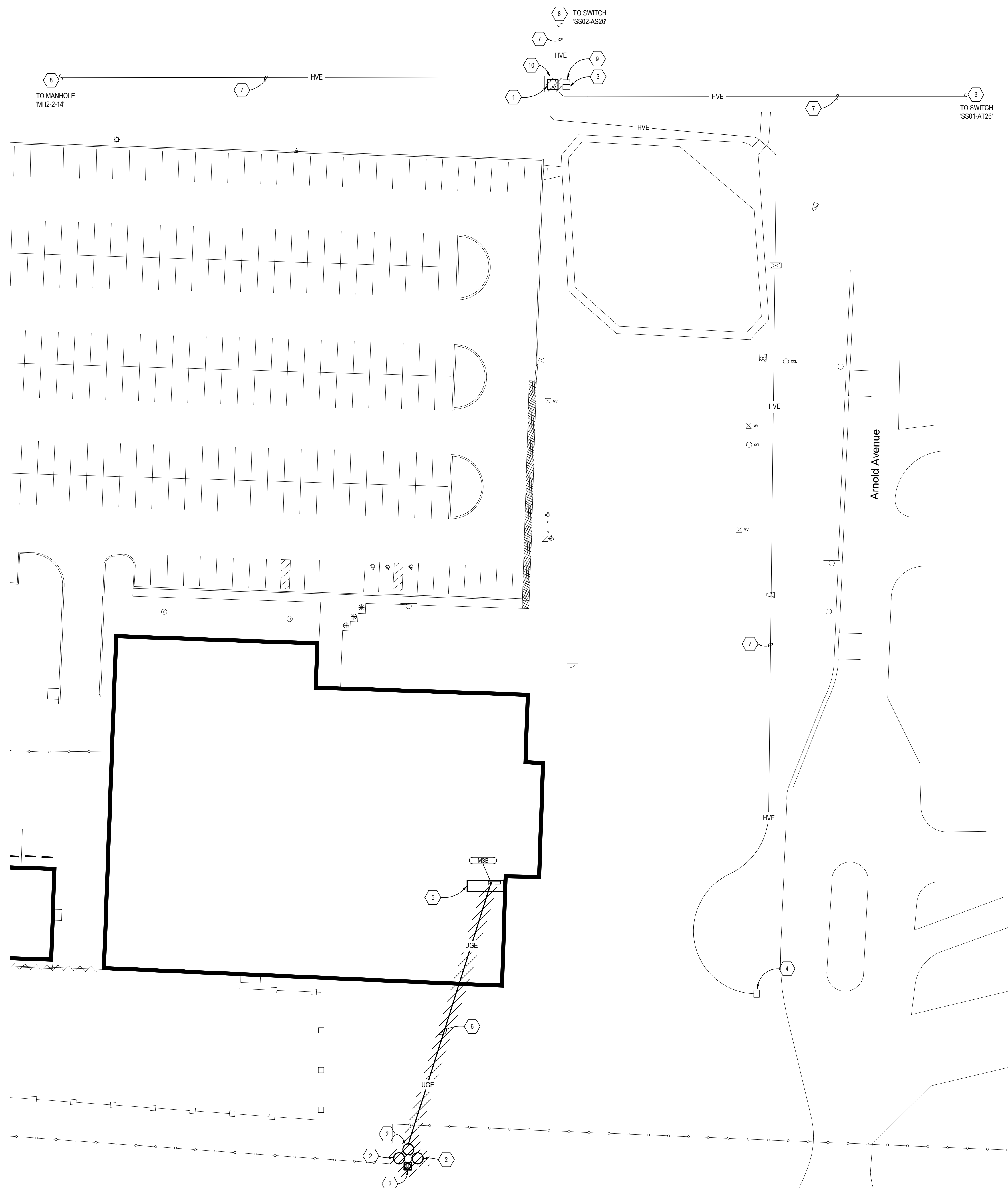
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ASSET #: 8136258003

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DATE: _____
REVISION: _____
DATE: _____

DRAWN BY: HB
CHECKED BY: BA
DESIGNED BY: HB

SHEET TITLE:
Electrical Power
Demolition Site Plan

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05/27/2022

ELECTRICAL POWER DEMOLITION SITE PLAN NOTES	
KEY NOTE	DESCRIPTION
1	EXISTING PAD MOUNTED, 4-WAY, 14.4KV RATED SWITCH 'S\$01-AS26' SWITCH TO BE DEMOLISHED AND REPLACED WITH NEW 6-WAY 14.4KV RATED SWITCH. EXISTING 12470V FEEDERS SHALL BE DISCONNECTED FROM EXISTING SWITCH AND SALVAGED FOR RECONNECTION TO NEW SWITCH BEING INSTALLED AT THIS LOCATION. SEE ELECTRICAL POWER & AUXILIARY SYSTEMS SITE PLAN AND ELECTRICAL ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2	EXISTING EVERY POLE MOUNTED TRANSFORMER AND ASSOCIATED UTILITY METER TO BE DEMOLISHED. DEMOLITION TO BE FULLY COORDINATED WITH UTILITY COMPANY (EVERGY). EVERY ELECTRICAL SERVICE SHALL NOT BE DEMOLISHED UNTIL NEW SERVICE AND ASSOCIATED WORK IS INSTALLED AND READY TO RE-FEED BUILDING.
3	EXISTING 5 KVA TRANSFORMER 'T-S\$01-AS26' SERVING SCADA REMOTE TELEMETRY UNIT IS TO REMAIN. TRANSFORMER IS TO BE FED FROM NEW 14.4KV RATED SWITCH. REFERENCE ONE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
4	EXISTING TRANSFORMER 'T1705' FEEDING GUARD SHACK TO REMAIN.
5	AREA SHOWN INDICATES EXISTING ELECTRICAL CLOSET IN BUILDING 1750 SHOWN FOR REFERENCE ONLY. COORDINATE WITH ARCHITECT FOR EXACT DIMENSIONS AND LAYOUT. SEE ENLARGED ELECTRICAL POWER PLAN FOR ADDITIONAL INFORMATION.
6	EXISTING 480V, 3PH ELECTRICAL SERVICE TO BUILDING. ALL SERVICE CONDUCTORS AND ANY ABOVE GROUND SERVICE CONDUIT SHALL BE DEMOLISHED. EXISTING UNDERGROUND CONDUIT TO REMAIN, ABANDONED IN-PLACE.
7	EXISTING 12470V, 3PH WHITEMAN AFB SERVICE LOOP FEEDER ROUTED BELOW GRADE TO REMAIN. ROUTING SHOWN IS APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT FIELD CONDITIONS. SEE ELECTRICAL ONE LINE DIAGRAM FOR MORE INFORMATION.
8	WHITEMAN AFB 12470V, 3PH SERVICE LOOP CONTINUATION TO EXISTING ELECTRICAL EQUIPMENT OUTSIDE OF THIS PROJECT'S AREA OF WORK.
9	EXISTING REMOTE TELEMETRY UNIT (RTU) FOR SCADA CONTROL. SYSTEM FOR MONITORING EXISTING 14.4KV RATED SWITCH 'S\$01-AS26' IS TO REMAIN. EXISTING SCADA RTU IS TO BE USED TO MONITOR NEW 6-WAY 14.4KV RATED SWITCH 'S\$01-AS26'. COORDINATE EXACT DETAILS WITH WHITEMAN AFB ENERGY AND UTILITIES GROUP.
10	EXISTING CONCRETE EQUIPMENT PAD TO REMAIN AND EXPANDED AS NECESSARY TO ACCOMMODATE NEW SWITCH BEING INSTALLED IN THIS LOCATION. EXISTING CONCRETE EQUIPMENT PAD GROUND ROD(S) AND/OR GROUND RING IS TO BE MAINTAINED.

CONTRACTOR SHALL PHASE ALL WORK SO AS TO MINIMIZE ANY POWER OUTAGES TO OWNER AS ALL FACILITIES WILL REMAIN OCCUPIED FOR THE DURATION OF CONSTRUCTION

ALL WORK SHOWN DARK, HATCHED AND
NOTED IS EXISTING TO BE DEMOLISHED

ALL MEDIUM VOLTAGE WORK SHALL BE FULLY COORDINATE WITH WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP. INSTALLATION SHALL FULLY MEET ALL REQUIREMENTS AS SET FORTH BY WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP.

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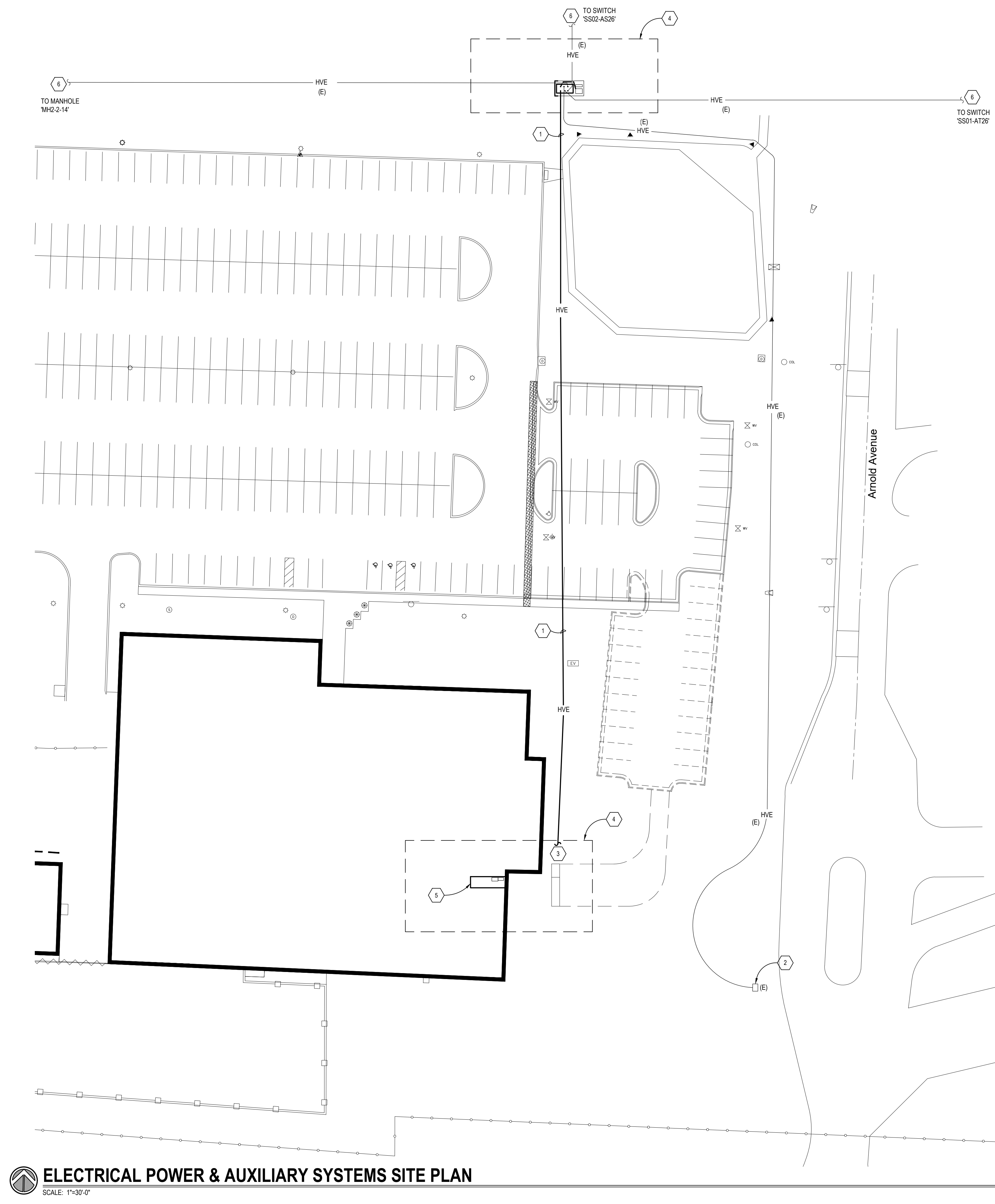
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SHEET NUMBER:

E-003

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KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258003

REVISION: _____
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DATE: _____
ISSUE DATE: 05/27/2022

DRAWN BY: HB
CHECKED BY: BA
DESIGNED BY: HB

SHEET TITLE:
Enlarged Power Plans

SHEET NUMBER:

E-004

ENLARGED POWER PLAN - SWITCH NOTES	
KEY NOTE	DESCRIPTION
1	CONTRACTOR SHALL EXTEND EXISTING CONCRETE PAD TO ACCOMMODATE LARGER, 6-WAY SWITCH INSTALLATION. CONCRETE PAD SPECIFICATIONS/REQUIREMENTS TO MEET SWITCH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL, AT A MINIMUM, EXTEND PAST THE LARGEST OUTSIDE DIMENSION OF THE SWITCH BY 6" ON ALL SIDES. CONCRETE PAD SHALL BE LEVEL AND SHALL EXTEND ABOVE GRADE BY A MINIMUM OF 6" OR AS REQUIRED TO MATCH THE EXISTING PORTION OF THE CONCRETE PAD. IF GROUND RING EXISTS, EXTEND GROUND RING AS NECESSARY IN ORDER TO ENCOMPASS THE NEW PORTION OF THE CONCRETE EQUIPMENT PAD.
2	NEW 15KV RATED PRIMARY SERVICE ENTRANCE FEEDERS FROM THE NEW PAD MOUNTED 6-WAY, 14.4KV RATED SWITCH 'SS01-AS26' TO THE NEW PAD MOUNTED TRANSFORMER 'T-1' TO BE INSTALLED IN NEW 2-WAY CONCRETE ENCASED DUCTBANK AT A MINIMUM OF 42" BELOW FINAL GRADE. COORDINATE ROUTING WITH ALL OTHER BELOW GRADE SYSTEMS. ONE CONDUIT WITHIN DUCTBANK IS FOR FUTURE AND IS NOT TO BE USED. PROVIDE SPARE CONDUIT WITH PULL ROPE. COORDINATE INSTALLATION WITH OWNER. SEE ELECTRICAL ONE LINE DIAGRAM, ELECTRICAL DETAILS AND ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3	CONTRACTOR TO PROVIDE OF NEW PAD MOUNTED 6-WAY, 14.4KV RATED SWITCH 'SS01-AS26', SALVAGED 12470V, 3PH FEEDERS SHALL BE RECONNECTED TO NEW SWITCH. NEW SWITCH'S COMPARTMENTS SHALL BE ARRANGED SO THAT EXISTING 12470V, 3PH FEEDER CONDUCTORS HAVE ENOUGH LENGTH TO BE RECONNECTED TO THE SWITCH. NEW SWITCH COMPARTMENT LOCATIONS ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL OBTAIN EXACT DIMENSIONED SHOP DRAWINGS FOR SWITCH IN ORDER TO DETERMINE SWITCH AND FUSIBLE BAY COMPARTMENT LOCATIONS. SEE ELECTRICAL DETAILS AND ELECTRICAL ONE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
4	EXISTING REMOTE TELEMETRY UNIT (RTU) FOR SCADA CONTROL SYSTEM FOR MONITORING 14.4KV RATED SWITCH 'SS01-AS26' SWITCH POSITIONS. EXISTING SCADA RTU IS TO BE USED TO MONITOR NEW 6-WAY 14.4KV RATED SWITCH. PROVIDE ALL INTERCONNECTIONS BETWEEN EXISTING SCADA RTU AND NEW 6-WAY, 14.4 KV RATED SWITCH 'SS01-AS26' FOR A COMPLETE INSTALLATION. COORDINATE EXACT DETAILS WITH WHITEMAN AFB ENERGY AND UTILITIES GROUP AND THE 6-WAY, 14.4 KV RATED SWITCH MANUFACTURER.
5	EXISTING PORTION OF CONCRETE PAD TO REMAIN. EXISTING CONCRETE EQUIPMENT PAD GROUND ROD(S) AND/OR GROUND RING IS TO BE MAINTAINED. IF GROUND RING EXISTS, EXTEND GROUND RING AS NECESSARY IN ORDER TO ENCOMPASS THE NEW PORTION OF THE CONCRETE EQUIPMENT PAD.
6	ROUTE (3) #2 (15KV RATED), TYPE MV-105 CONDUCTORS IN (1) 5" CONDUIT IN ORDER TO RE-FEED EXISTING TRANSFORMER FROM NEW 6-WAY, 14.4KVA SWITCH 'SS01-AS26'. COORDINATE EXACT REQUIREMENTS WITH OWNER.
7	EXISTING 5KVA TRANSFORMER 'T-SS01-AS26' TO REMAIN. TRANSFORMER TO BE DISCONNECTED FROM EXISTING 4-WAY SWITCH AND RECONNECTED TO NEW 6-WAY SWITCH 'SS01-AS26' IN ORDER TO CONTINUE FEEDING EXISTING REMOTE TELEMETRY UNIT (RTU).

CONTRACTOR SHALL IDENTIFY, SUPPORT, AND PROTECT ALL EXISTING UTILITIES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL SYSTEM OUTAGES SHALL BE FULLY COORDINATED WITH THE OWNER'S REPRESENTATIVE/LOCAL UTILITY.

ALL MEDIUM VOLTAGE WORK SHALL BE FULLY COORDINATED WITH WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP. INSTALLATION SHALL FULLY MEET ALL REQUIREMENTS AS SET FORTH BY WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP.

ENLARGED POWER PLAN NOTES	
KEY NOTE	DESCRIPTION
1	EXISTING ELECTRICAL CLOSET IN BUILDING 1750 SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECT FOR EXACT DIMENSIONS AND LAYOUT OF ROOM.
2	SEE ELECTRICAL POWER & AUXILIARY SYSTEMS SITE PLAN FOR FEEDER CONTINUATION.
3	ROUTE: NEW FEEDER FROM SECONDARY SIDE OF NEW MANUAL TRANSFER SWITCH 'MTS-1' BELOW GRADE TO BUILDING. ONCE AT THE BUILDING, ROUTE FEEDER VERTICALLY, ALONG EXTERIOR SURFACE OF THE BUILDING TO A NEW WEATHERPROOF PULLBOX SURFACE MOUNTED ON EXTERIOR WALL. ROUTE NEW FEEDERS INTO BUILDING AND INTO ELECTRICAL CLOSET ON FIRST FLOOR VIA NEW PULLBOX. PROVIDE CONDUIT SLEEVES AND SEAL BUILDING PENETRATION PER SPECIFICATIONS IN ORDER TO CREATE A WEATHERTIGHT INSTALLATION. COORDINATE ANY PENETRATION WORK THROUGH EXTERIOR BUILDING WALL WITH ARCHITECT. SIZE PULLBOX PER NEC AT A MINIMUM, UPSIZE TO AID IN ROUTING OF FEEDERS AS NECESSARY. COORDINATE EXACT FINISH OF PULLBOX WITH OWNER. ONCE INSIDE THE BUILDING, FEEDERS SHALL BE ROUTED SURFACE MOUNTED ON CEILING OF EXISTING ELECTRICAL CLOSET THE REMAINDER OF THE RUN UNTIL CONNECTED TO EXISTING MAIN SWITCH BOARD 'MSB'.
4	CONDUIT TO BE ROUTED SURFACE MOUNTED DOWN WALL AND CONNECTED INTO EXISTING SWITCHBOARD 'MSB'. PROVIDE WIREWAY INSTALLED ALONGSIDE EXISTING SWITCHBOARD AS REQUIRED TO PROVIDE PATH FOR FEEDERS TO ENTER INTO EXISTING SWITCHBOARD 'MSB'.
5	NEW PAD MOUNTED ELECTRICAL SERVICE TRANSFORMER 'T-1' TRANSFORMER AND TRANSFORMER PAD TO BE PROVIDED AND INSTALLED BY CONTRACTOR. SEE TRANSFORMER PAD DETAIL FOR ADDITIONAL INFORMATION.
6	ROUTE 480V, 3PH FEEDER A MINIMUM OF 42" BELOW GRADE, CABLING, AND CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE FINAL ROUTING AND REQUIREMENTS WITH OWNER. SEE ELECTRICAL ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7	NEW 800A PAD MOUNTED MANUAL TRANSFER SWITCH 'MTS-1' TO BE INSTALLED AT THIS LOCATION. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURER IN ORDER TO ENSURE A SECURE INSTALLATION. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
8	NEW PORTABLE GENERATOR DOCKING STATION 'DS-1'. PROVIDE NEW GENERATOR DOCKING STATION WITH NEMA 3R ENCLOSURE. GENERATOR DOCKING STATION BOX SHALL HAVE A MINIMUM OF 5' OF CLEARANCE IN FRONT OF EQUIPMENT FOR ACCESS. GENERATOR DOCKING STATION TO BE UNISTRUT MOUNTED UTILIZING STAINLESS STEEL UNISTRUT ANCHORED TO CONCRETE PAD FOR A SECURE INSTALLATION. SEE ELECTRICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9	NEW KWH SOLID STATE POLYPHASE ELECTRICAL CONSUMPTION METER (GENERAL ELECTRIC KV2C METER FAMILY, OR ENGINEER APPROVED EQUAL) AND COMPATIBLE WEATHERPROOF METER BASE (MILBANK) TO BE PROVIDED AND INSTALLED BY CONTRACTOR. METER ASSEMBLY TO BE MOUNTED ON STAINLESS STEEL UNISTRUT RACK THAT IS SECURED TO CONCRETE PAD. CONTRACTOR TO PROVIDE CURRENT TRANSFORMERS (CTS) COMPATIBLE WITH PROVIDED METER. CTS SHALL BE REVENUE GRADE. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" X 10' COPPER CLAD GROUND ROD INSTALLED ADJACENT TO THE NEW METER ASSEMBLY. TOP OF ROD SHALL BE JUST BELOW TOP SURFACE OF CONCRETE PAD AND SHALL BE PROVIDED WITH A GROUND ROD TEST WELL THAT IS FLUSH WITH TOP SURFACE OF THE CONCRETE PAD. FROM GROUND ROD, ROUTE (1) #3/0 GROUNDING ELECTRODE CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT AND UTILIZE TO GROUND METER ASSEMBLY. CONTRACTOR SHALL ROUTE (1) 1-1/4" RIGID GALVANIZED STEEL CONDUIT BETWEEN CT CABINET AND METER SOCKET. PROVIDE ALL NECESSARY FUSES, FUSE BLOCKS, CURRENT TRANSFORMERS, METER, METER BASE, CONDUIT, GROUNDING, AND WIRING TO ENSURE A COMPLETE METERING INSTALLATION. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH OWNER.
10	NEW 480V, 3PH, 800A, NEMA 4X, LOCKABLE, MILBANK (OR ENGINEER APPROVED EQUAL) CURRENT TRANSFORMER (CT) CABINET TO BE BE MOUNTED ON STAINLESS STEEL UNISTRUT RACK THAT IS SECURED TO CONCRETE PAD. CONTRACTOR TO ENSURE CT CABINET IS COMPATIBLE WITH PROVIDED CURRENT TRANSFORMERS AND METER. PROVIDE ALL NECESSARY EQUIPMENT, WIRE, CONDUIT, AND CONNECTIONS TO ENSURE A COMPLETE METERING INSTALLATION. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH OWNER.
11	REFERENCE LANDSCAPE SITE PLANS FOR CONCRETE PAD INFORMATION IN THIS AREA.
12	UNDER BAS BID CONDITION ONLY, SERVICE ENTRANCE FEEDER SHALL BE ROUTED DIRECTLY FROM THE NEW CT CABINET TO THE EXISTING MAIN SWITCHBOARD, 'MSB'.
13	ALL WORK ASSOCIATED WITH THE INSTALLATION OF 'MTS-1' AND 'DS-1', INCLUDING ASSOCIATED CONCRETE PAD, IS TO BE PERFORMED ONLY IF ADD ALTERNATE #3 IS ACCEPTED.

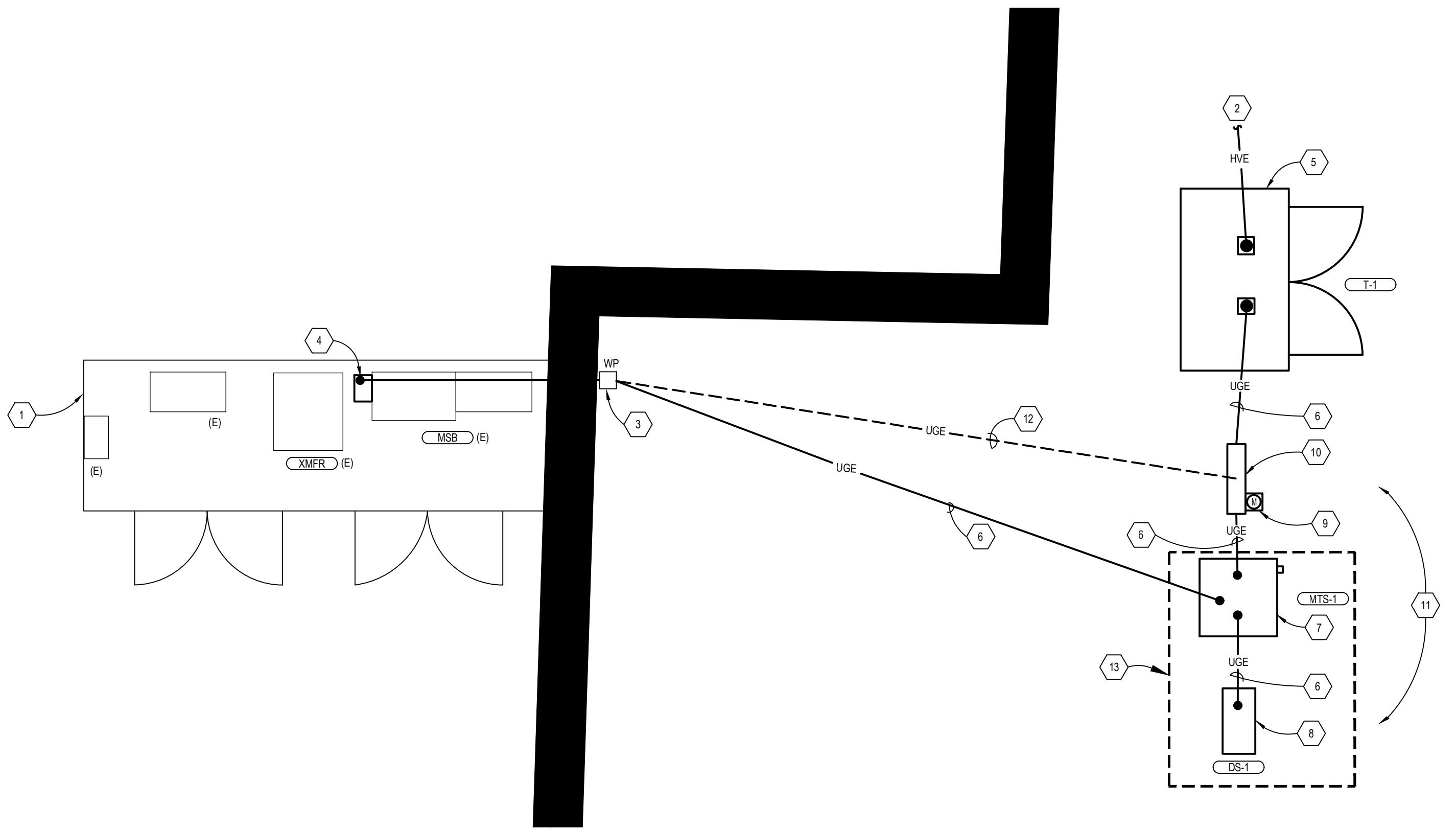
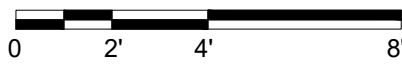
ALL MEDIUM VOLTAGE WORK SHALL BE FULLY COORDINATED WITH WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP. INSTALLATION SHALL FULLY MEET ALL REQUIREMENTS AS SET FORTH BY WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP.

CONTRACTOR SHALL IDENTIFY, SUPPORT, AND PROTECT ALL EXISTING UTILITIES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL SYSTEM OUTAGES SHALL BE FULLY COORDINATED WITH THE OWNER'S REPRESENTATIVE/LOCAL UTILITY.

ALL WORK ASSOCIATED WITH THE INSTALLATION OF 'MTS-1' AND 'DS-1', INCLUDING ASSOCIATED CONCRETE PAD, IS TO BE PERFORMED ONLY IF ADD ALTERNATE #3 IS ACCEPTED. BASE BID SHALL INCLUDE ROUTING NEW SERVICE ENTRANCE FEEDER DIRECTLY FROM THE NEW CT CABINET TO THE BUILDING'S EXISTING MAIN SWITCHBOARD, 'MSB'.

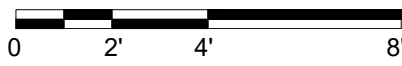
ENLARGED POWER PLAN -SWITCH

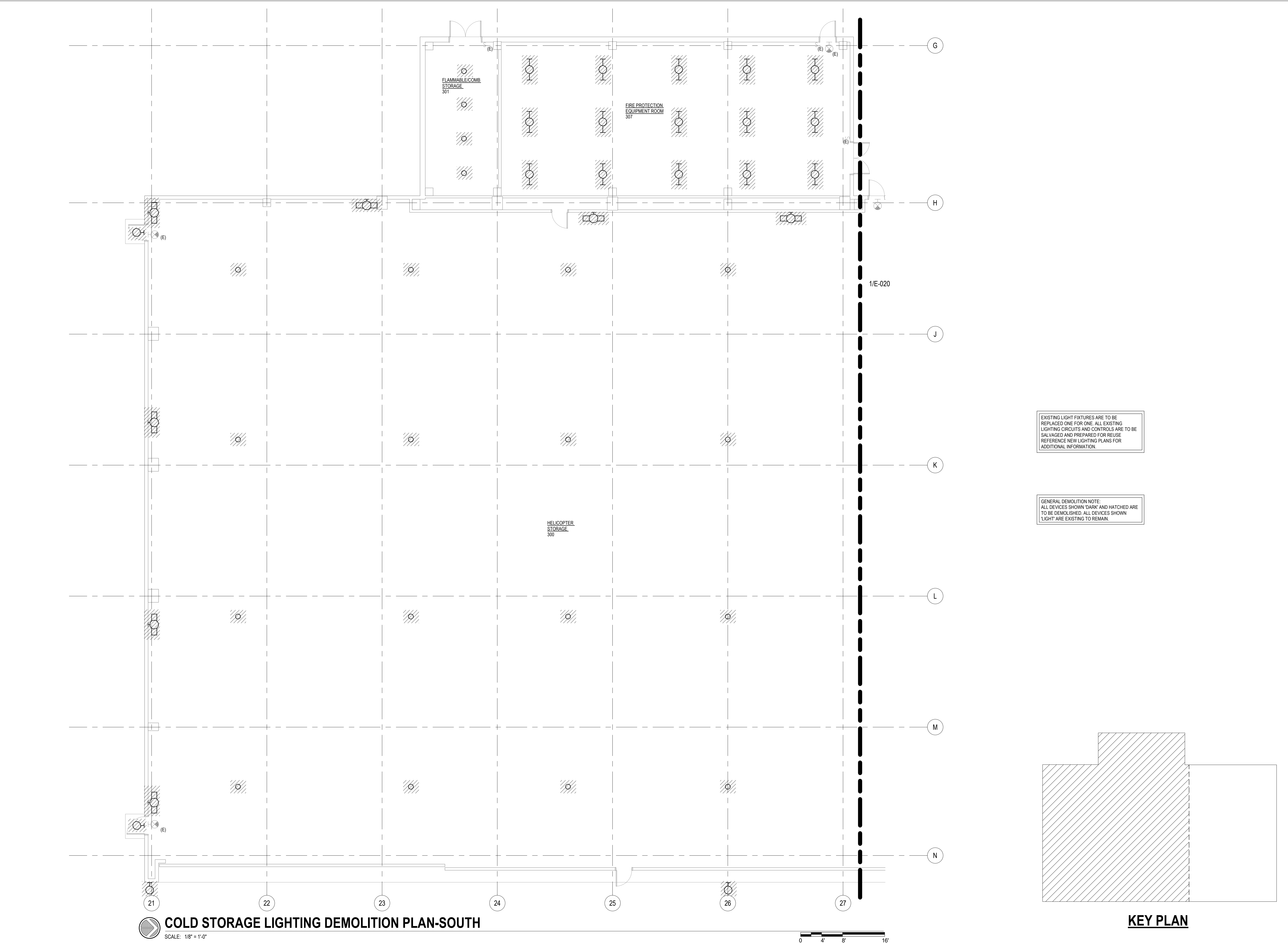
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ENLARGED POWER PLAN

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

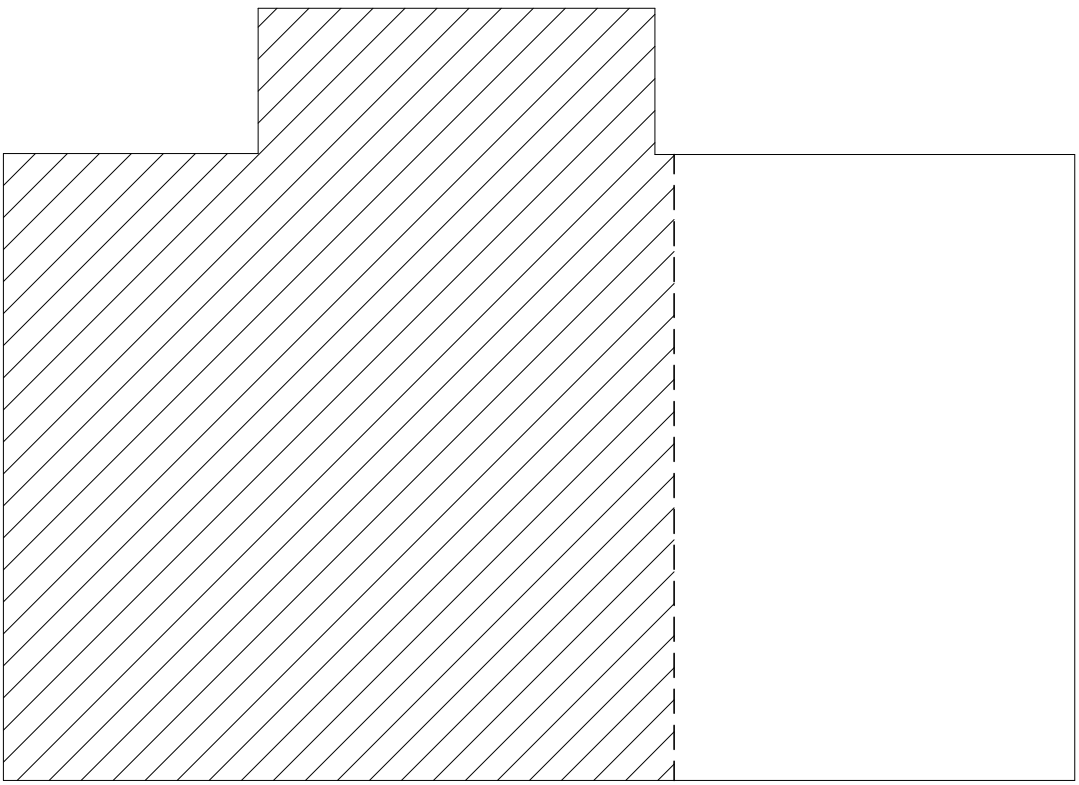




COLD STORAGE LIGHTING DEMOLITION PLAN-SOUTH
SCALE: 1/8" = 1'-0"

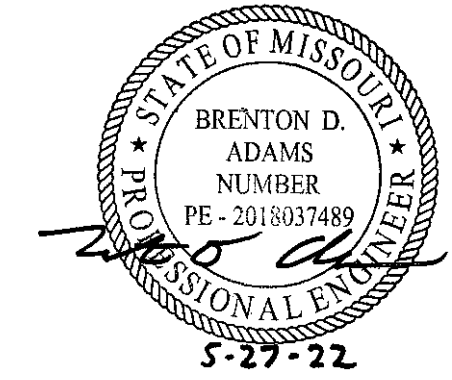
EXISTING LIGHT FIXTURES ARE TO BE REPLACED ONE FOR ONE. ALL EXISTING LIGHTING CIRCUITS AND CONTROLS ARE TO BE SALVAGED AND PREPARED FOR REUSE. REFERENCE NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTE:
ALL DEVICES SHOWN DARK AND HATCHED ARE TO BE DEMOLISHED. ALL DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN.



KEY PLAN

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HANGAR LED LIGHTING,
POV AND MVC PARKING
EXPANSION

WHITEMAN AIR FORCE
BASE

ONE ATTACK AVENUE
KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258001

REVISION: _____
DATE: _____
REVISION: _____
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DATE: _____

ISSUE DATE: 05/27/2022

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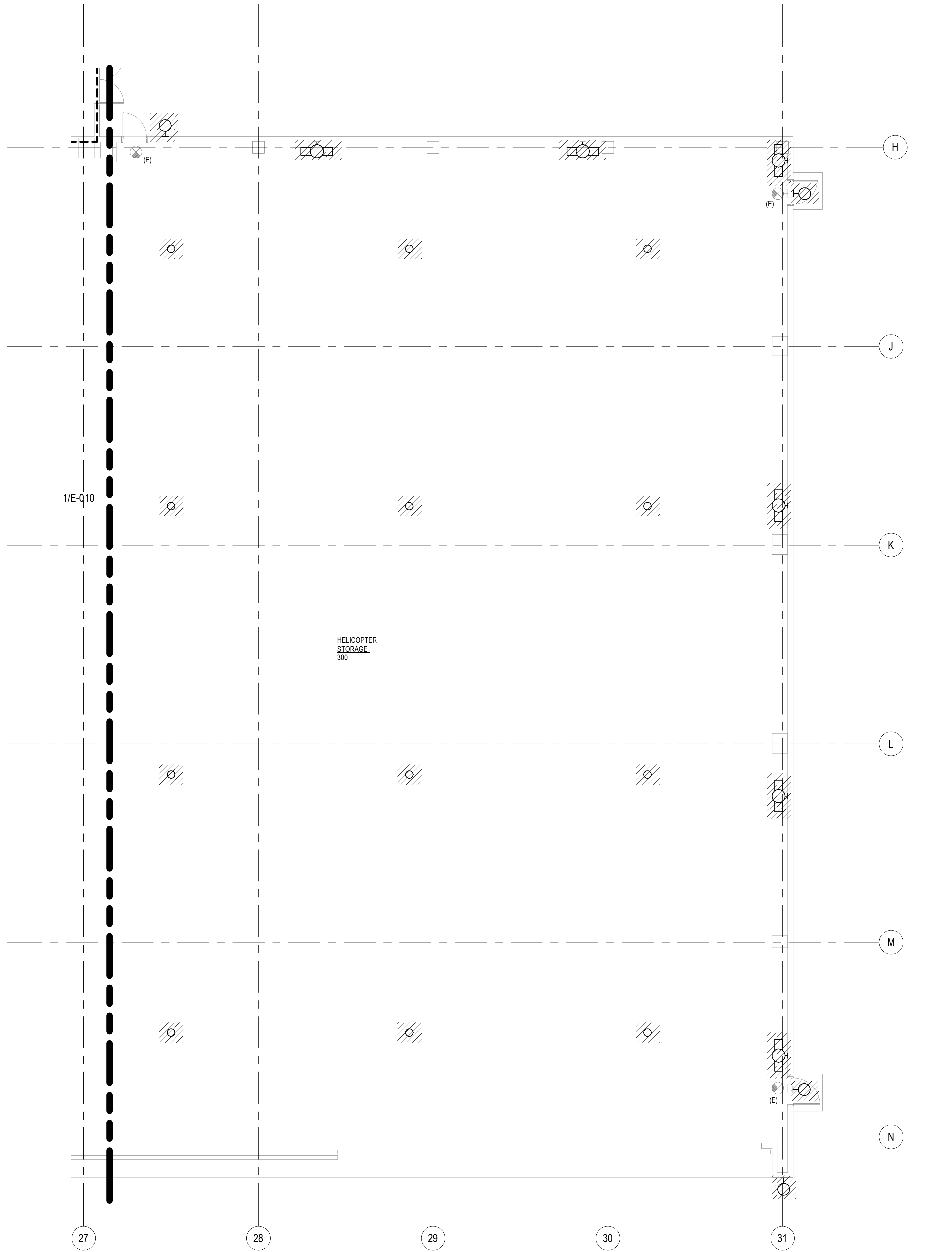
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Cold Storage Lighting
Demolition Plan-South

SHEET NUMBER:

E-010

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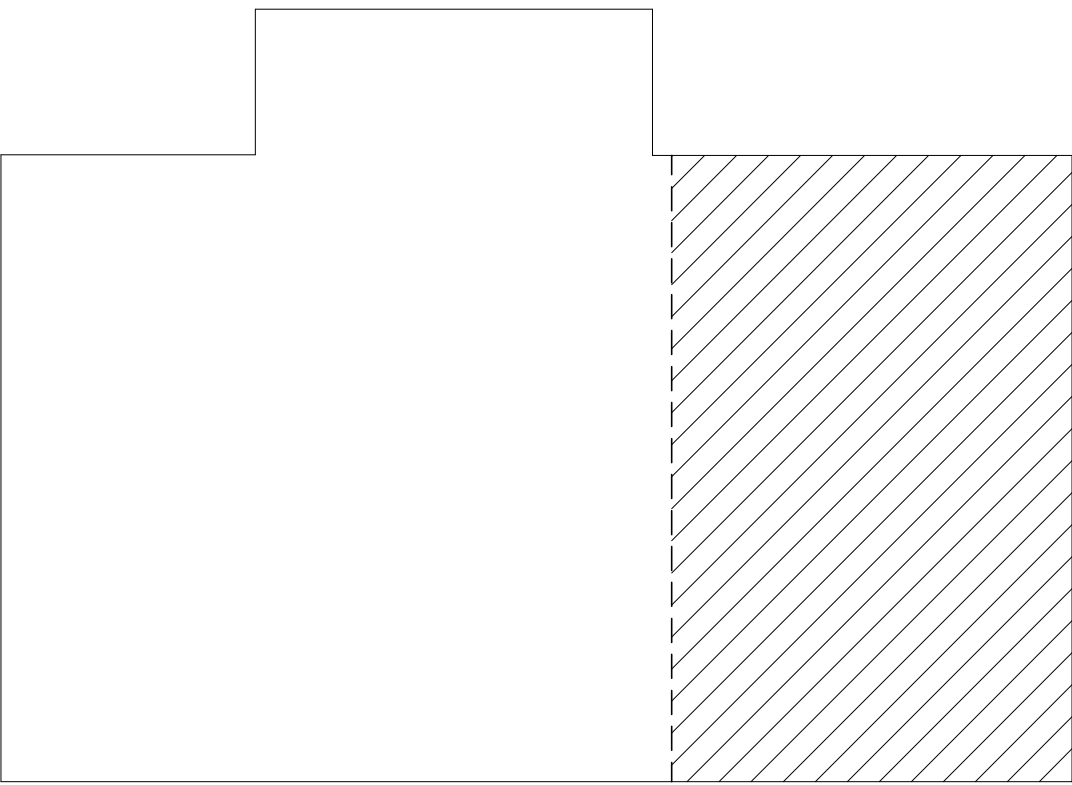


 **COLD STORAGE LIGHTING DEMOLITION PLAN-NORTH**
SCALE: 1/8" = 1'-0"



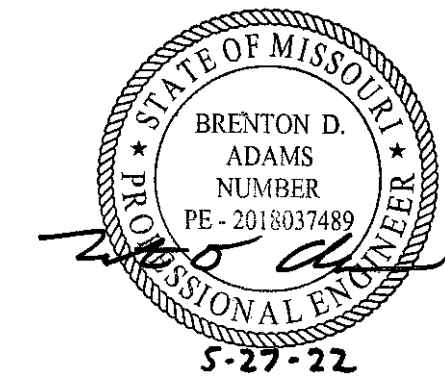
EXISTING LIGHT FIXTURES ARE TO BE REPLACED ONE FOR ONE. ALL EXISTING LIGHTING CIRCUITS AND CONTROLS ARE TO BE SALVAGED AND PREPARED FOR REUSE. REFERENCE NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTE:
ALL DEVICES SHOWN DARK AND HATCHED ARE TO BE DEMOLISHED. ALL DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN.



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PROJECT # T2045-01

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ASSET #: 8136258001

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SHEET TITLE:
**Cold Storage Lighting
Demolition Plan-North**

SHEET NUMBER:

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PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258001

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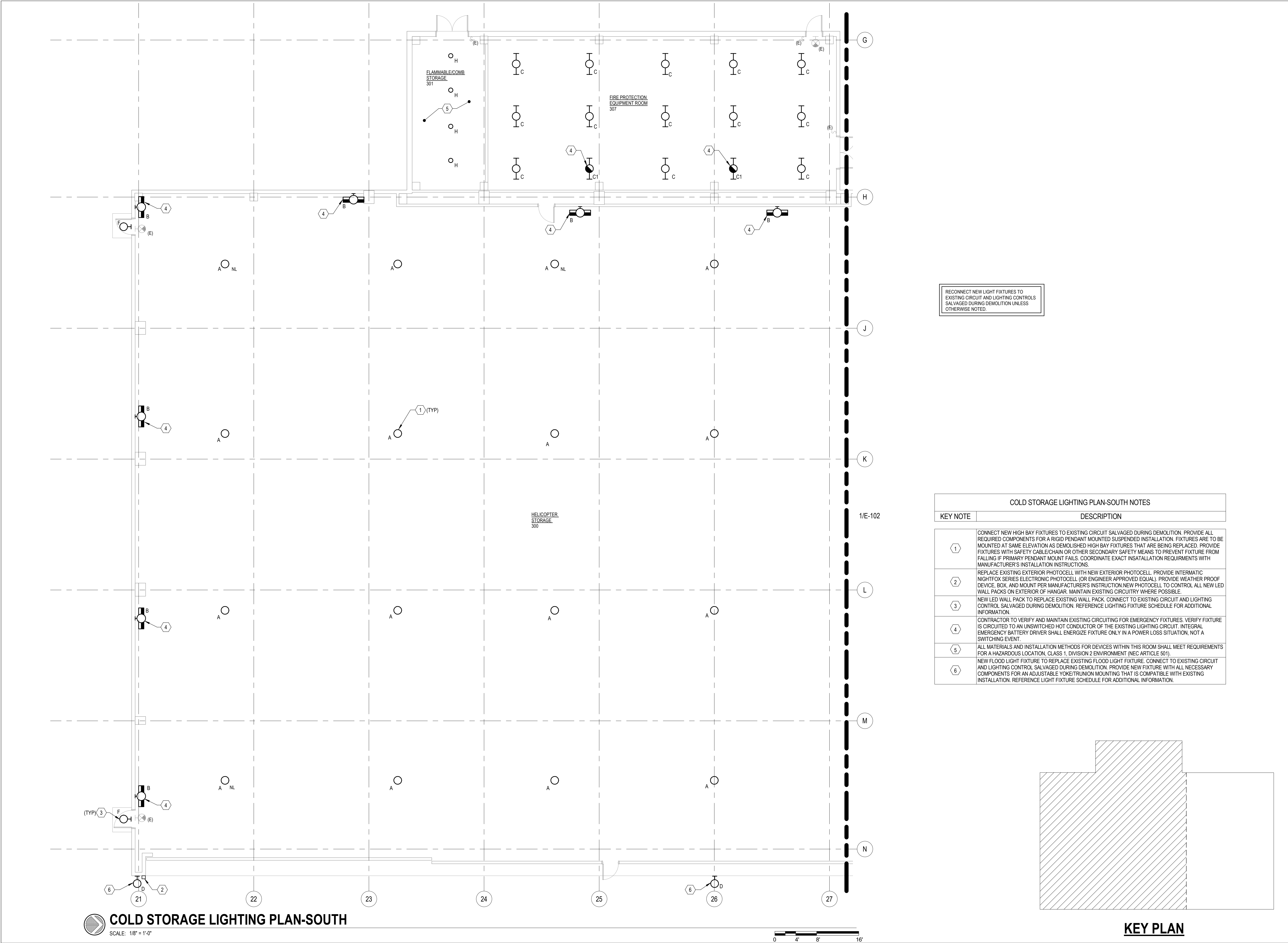
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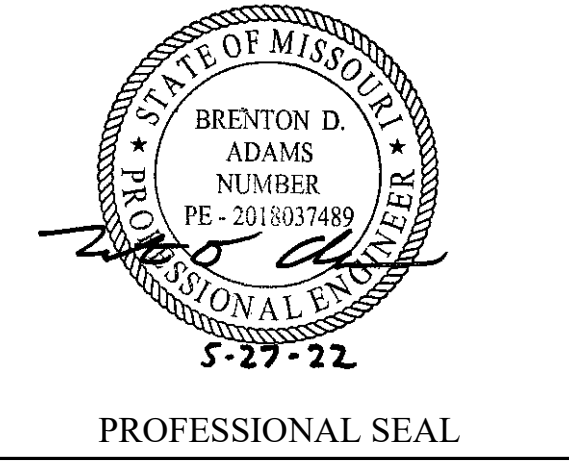
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AASF Exterior Lighting
Demolition Plan

SHEET NUMBER:

E-030



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KNOB NOSTER, MO 65305

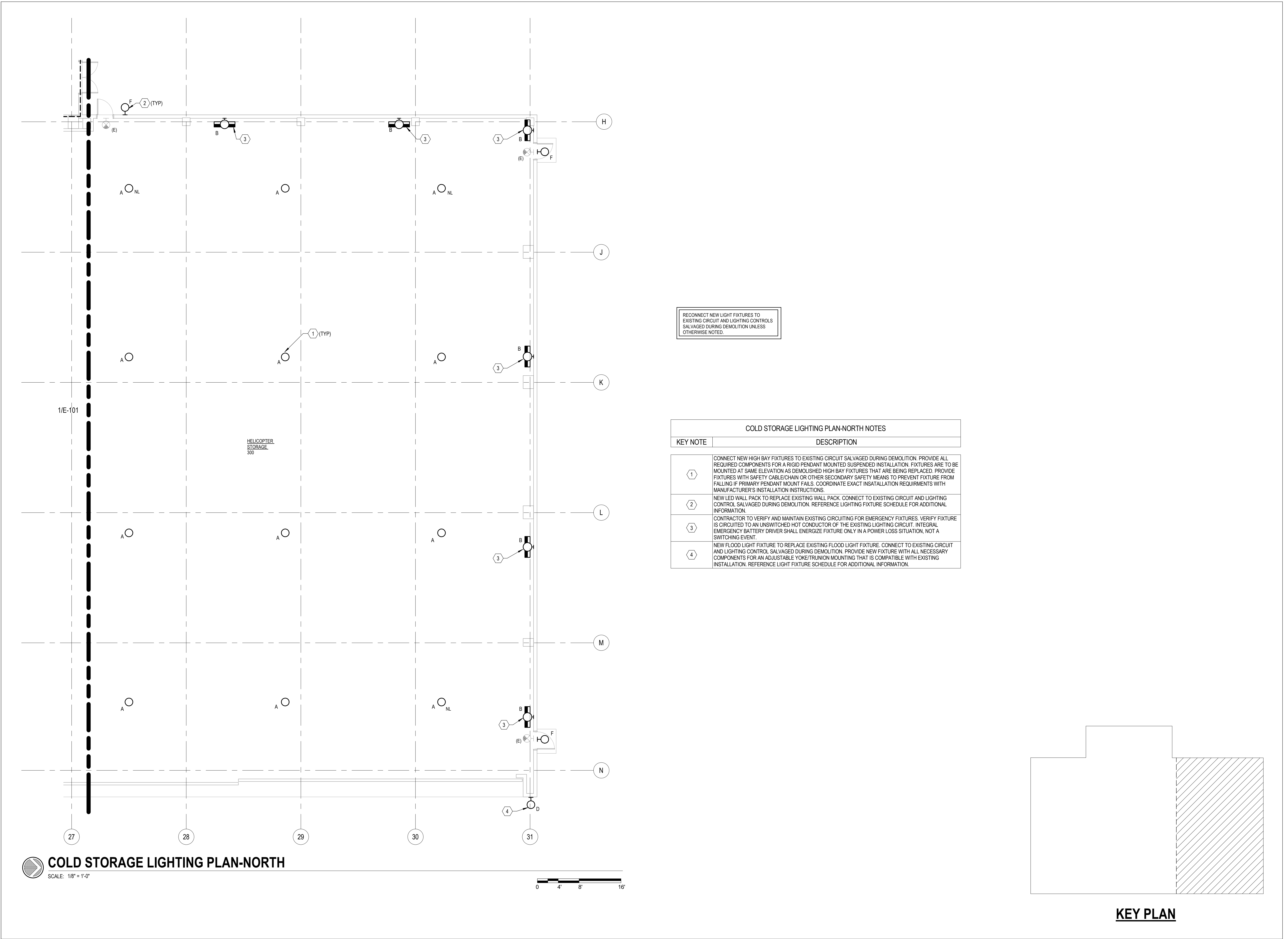
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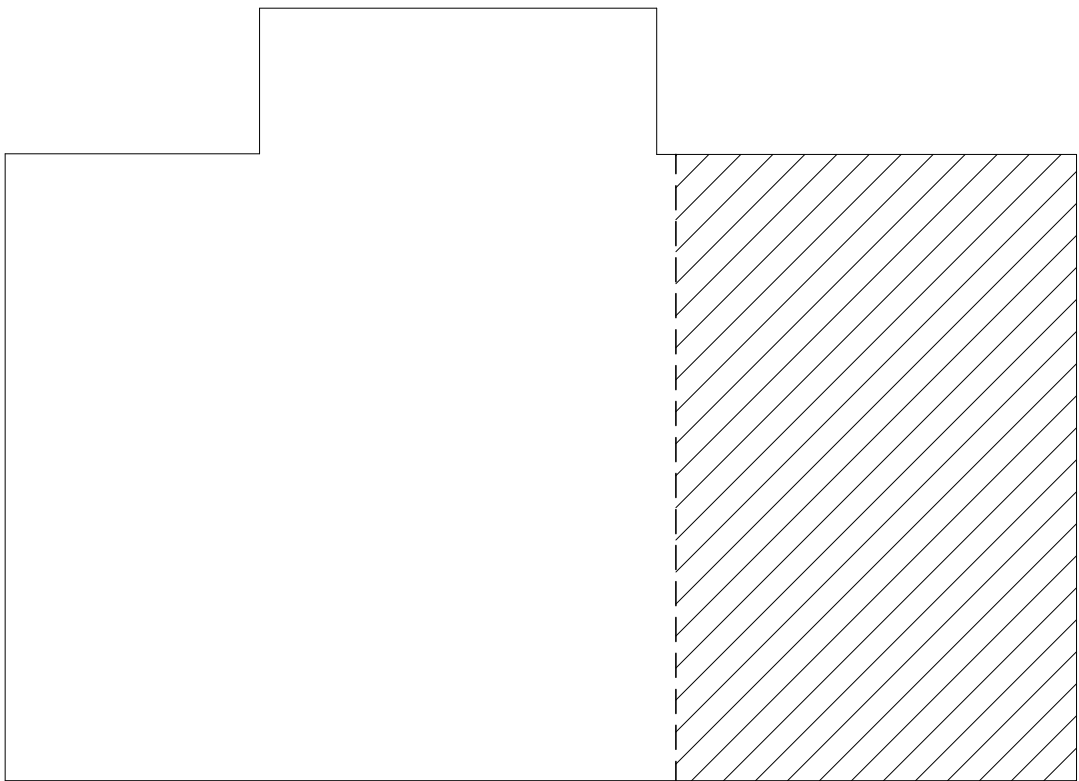
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Cold Storage Lighting
Plan-South

SHEET NUMBER:
E-101
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05/27/2022



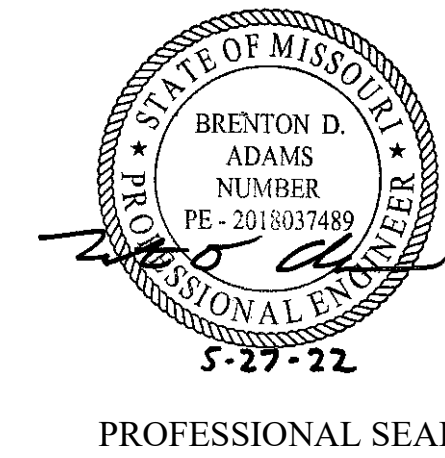
RECONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT AND LIGHTING CONTROLS SALVAGED DURING DEMOLITION UNLESS OTHERWISE NOTED.

COLD STORAGE LIGHTING PLAN-NORTH NOTES	
KEY NOTE	DESCRIPTION
1	CONNECT NEW HIGH BAY FIXTURES TO EXISTING CIRCUIT SALVAGED DURING DEMOLITION. PROVIDE ALL REQUIRED COMPONENTS FOR A RIGID PENDANT MOUNTED SUSPENDED INSTALLATION. FIXTURES ARE TO BE MOUNTED AT SAME ELEVATION AS DEMOLISHED HIGH BAY FIXTURES THAT ARE BEING REPLACED. PROVIDE FIXTURES WITH SAFETY CABLE/CHAIN OR OTHER SECONDARY SAFETY MEANS TO PREVENT FIXTURE FROM FALLING IF PRIMARY PENDANT MOUNT FAILS. COORDINATE EXACT INSATALLATION REQUIRMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2	NEW LED WALL PACK TO REPLACE EXISTING WALL PACK. CONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROL. SALVAGED DURING DEMOLITION. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
3	CONTRACTOR TO VERIFY AND MAINTAIN EXISTING CIRCUITING FOR EMERGENCY FIXTURES. VERIFY FIXTURE IS CIRCUITED TO AN UNSWITCHED HOT CONDUCTOR OF THE EXISTING LIGHTING CIRCUIT. INTEGRAL EMERGENCY BATTERY DRIVER SHALL ENERGIZE FIXTURE ONLY IN A POWER LOSS SITUATION, NOT A SWITCHING EVENT.
4	NEW FLOOD LIGHT FIXTURE TO REPLACE EXISTING FLOOD LIGHT FIXTURE. CONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROL. SALVAGED DURING DEMOLITION. PROVIDE NEW FIXTURE WITH ALL NECESSARY COMPONENTS FOR AN ADJUSTABLE YOKE/TRUNION MOUNTING THAT IS COMPATIBLE WITH EXISTING INSTALLATION. REFERENCE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.



KEY PLAN

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KNOB NOSTER, MO 65305

PROJECT # T2045-01

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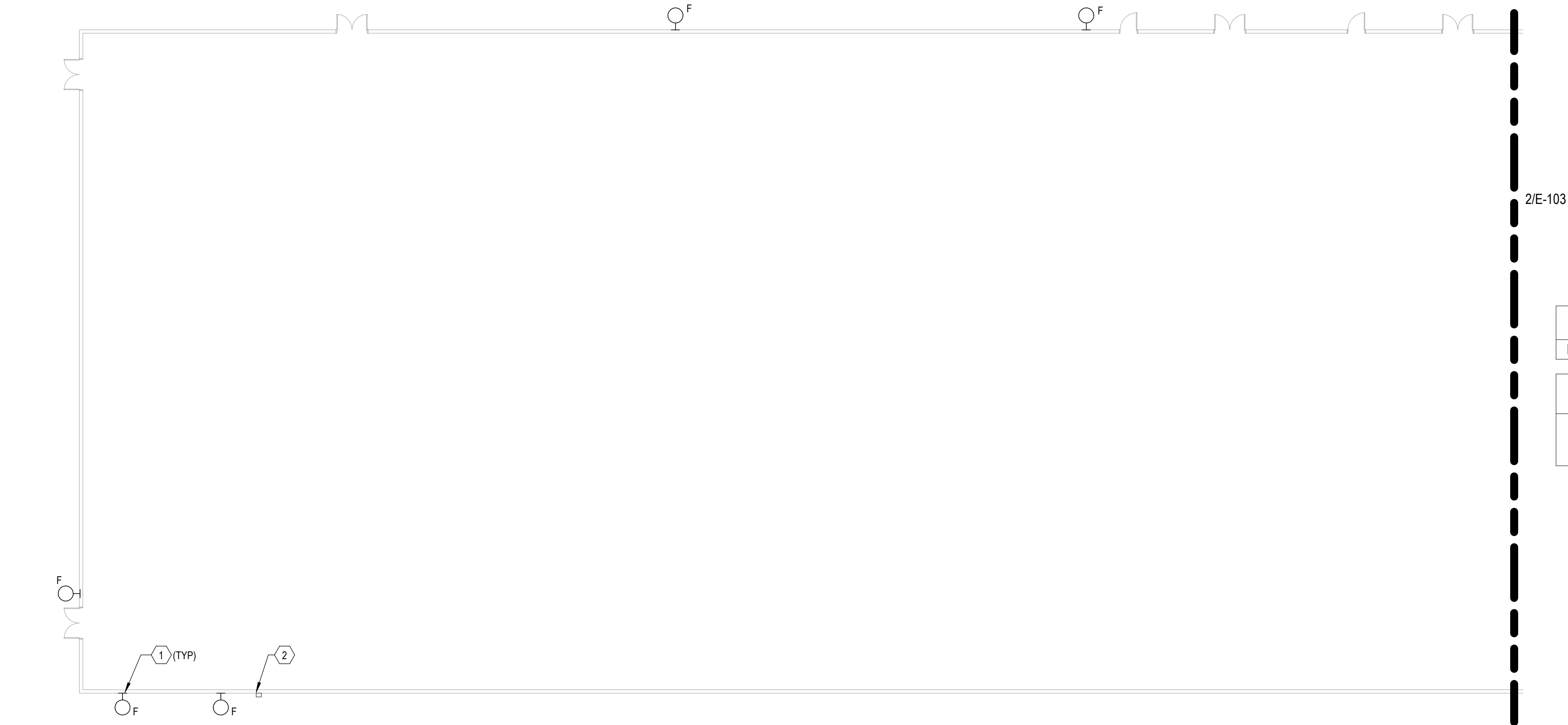
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SHEET TITLE:
Cold Storage Lighting
Plan-North

SHEET NUMBER:

E-102



 **AASF EXTERIOR LIGHTING PLAN-SOUTH**

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



AASF EXTERIOR LIGHTING-SOUTH PLAN NOTES	
KEY NOTE	DESCRIPTION
①	NEW LED WALL PACK TO REPLACE EXISTING WALL PACK. CONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROL. SALVAGED DURING DEMOLITION. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
②	REPLACE EXISTING EXTERIOR PHOTOCELL WITH NEW EXTERIOR PHOTOCELL. PROVIDE INTERMATIC NIGHTFOX SERIES ELECTRONIC PHOTOCELL (OR ENGINEER APPROVED EQUAL). PROVIDE WEATHER PROOF DEVICE, BOX, AND MOUNT PER MANUFACTURER'S INSTRUCTION. NEW PHOTOCELL TO CONTROL ALL NEW LED WALL PACKS ON EXTERIOR OF BUILDING. MAINTAIN EXISTING CIRCUITRY WHERE POSSIBLE.



 **AASF EXTERIOR LIGHTING PLAN-NORTH**

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



AASF EXTERIOR LIGHTING-NORTH PLAN NOTES	
KEY NOTE	DESCRIPTION
①	NEW LED WALL PACK TO REPLACE EXISTING WALL PACK. CONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROL. SALVAGED DURING DEMOLITION. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

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PROJECT # T2045-01

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SHEET TITLE:
AASF Exterior Lighting
Plans

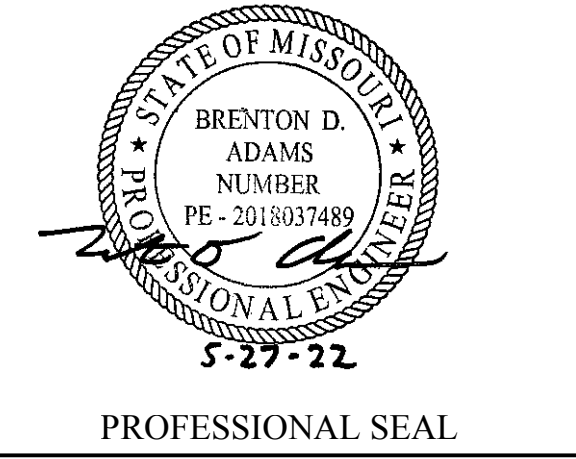
SHEET NUMBER:

E-103

BLANK AREAS IN THE CATALOGUE NUMBER DENOTES AREAS WHERE THE CONTRACTOR WILL NEED TO VERIFY AND MATCH EXISTING LIGHTING CONDITIONS IN THE FIELD.

LIGHTING FIXTURE SCHEDULE									
Fixture Type	Manufacturers	Catalog Numbers	Description	No. of Lamps	Lamp Type	Volt	VA	Mounting	Remarks
A	LITHONIA	JHBL-60000LM-ACL-WD-277-40K-80CRI	HIGH BAY LED	NA	LED, 4000K	277	388	SUSPENDED	PROVIDE ALL REQUIRED COMPONENTS FOR A RIGID PENDANT MOUNTED SUSPENDED INSTALLATION. FIXTURES ARE TO BE MOUNTED AT SAME ELEVATION AS DEMOLISHED HIGH BAY FIXTURES THAT ARE BEING REPLACED. PROVIDE FIXTURES WITH SAFETY CABLE/CHAIN OR OTHER SECONDARY SAFETY ME
	METALUX	BMK-60-WCL-277-L840							
	HEWILLIAMS	GPB-L600-8-40-W-DRV-277							
B	LITHONIA	FEM-L48-6000LM-LPAFL-WD-277-40K-80	1' x 4' GASKETED INDUSTRIAL LED	NA	LED, 4000K	277	38	SURFACE	PROVIDE ALL COMPONENTS FOR A SURFACE MOUNT INSTALLATION ON WALL. PROVIDE FIXTURE WITH INTEGRAL BATTERY DRIVER.
	HEWILLIAMS	96-4-L62-8-40-HIAFR-DRV-277							
	METALUX	4VT2-LD5-6-FR50-W-UNV-EL10W-L840-SLTD1-WL-U							
C	HEWILLIAMS	80-4'-L63-8-40-V-BY-2-DRV-UNV	1' x 4' INDUSTRIAL LED	NA	LED, 4000K	UNV	42	SURFACE	PROVIDE ALL COMPONENTS REQUIRED FOR A SURFACE MOUNT INSTALLATION. PROVIDE C1 FIXTURES WITH INTEGRAL BATTERY DRIVER. COORDINATE WITH MANUFACTURER FOR EXACT LUMEN PACKAGE SPECIFIED.
	LITHONIA	MSL-6000LM-SBL							
	METALUX	4'-LED-LD5-7-W-UNV-L840-1							
D	LITHONIA	HLP2-PB-40K-WFL-480-YK084-DF-DOBXD	LED FLOODLIGHT	NA	LED, 4000K	480	1000	SURFACE	PROVIDE ALL COMPONENTS NECESSARY FOR WALL MOUNT AT LOCATION OF PREVIOUS FLOODLIGHT THAT IS TO BE DEMOLISHED WITH SAME AIMING POINTS. PROVIDE NEW FIXTURE WITH ALL NECESSARY COMPONENTS FOR AN ADJUSTABLE YOKE/TRUNION MOUNTING THAT IS COMPAT
	SPECORGRADE	AFL-1000-40K-75-V04-TL-NDIM							
	CREE	FLD-EHO-70-HV-24-E-UH-BZ-1000-F-40K-EHO-UNV							
F	MCGRAW-EDISON	IST-SA1-600-740-U-E1-T4FT-BZ	WALL MOUNTED LED SITE FIXTURE	NA	LED, 4000K	UNV	40	WALL	MOUNT AT SAME LOCATION AND HEIGHT AS PREVIOUS LIGHT FIXTURES THAT ARE TO BE DEMOLISHED. REFERENCE LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING PHOTOCELL CONTROL FOR FIXTURES.
	KIM	WDS-D-24L-40-4K8-4F-UNV-DB							
	VISIONAIRE	PGAS-S-T4-16L-C-700MA-4K-UNV-WM-BZ							
G	MCGRAW-EDISON	GLEON-SA2-A-____-U-T4W-BZ	30' POLE WITH LED SITE LIGHTING FIXTURE	NA	LED	UNV	129	POLE	MOUNT FIXTURE ON 30' POLE. SEE ELECTRICAL LIGHTING SITE PLAN FOR ADDITIONAL INFORMATION. REFERENCE PARKING LOT POLE BASE DETAIL FOR ADDITIONAL MOUNTING INFORMATION. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. COLOR TEMPERATURE IS TO MATCH
	KIM	ALT1-54L-120-____-4W-UNV-ASQ-DB							
	LITHONIA	DSX0-PB-____-T4M-MVOLT-SPA-____-DOBXD							
	POLE: LITHONIA	SSS-30-5G-PF-DOBXD							
	POLE: KIM	SSS-K-30-50-B-1/2-K2-DBS							
H	COLUMBIA	VTH-4K-G-X-D_-GR	LED EXPLOSION PROOF LIGHT	NA	LED, 4000K	UNV	25	SURFACE	PROVIDE ALL COMPONENTS REQUIRED FOR A SURFACE MOUNTED INSTALLATION ON EXISTING FRAME. FIXTURE TO BE CLASS 1 DIVISION 2 RATED AND FULLY EXPLOSION PROOF.
	HOLOPHANE	HRLL-8L-AS-GG-CE							
	RAB	HAZXLED-26-F-DG							
J	MCGRAW-EDISON	GLEON-SA2-B-740-U-T4FT-BZ	30' POLE WITH LED SITE LIGHTING FIXTURE	NA	LED	UNV	129	POLE	MOUNT FIXTURE ON 30' POLE. SEE ELECTRICAL LIGHTING SITE PLAN FOR ADDITIONAL INFORMATION. REFERENCE PARKING LOT POLE BASE DETAIL FOR ADDITIONAL MOUNTING INFORMATION. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. COLOR TEMPERATURE IS TO MATCH
	KIM	ALT1-54L-120-____-4-UNV-ASQ-DB							
	LITHONIA	DSX0-PB-____-TFTM-MVOLT-SPA-____-DOBXD							
	POLE: LITHONIA	SSS-30-5G-PF-DOBXD							
	POLE: KIM	SSS-K-30-50-B-1/2-K2-DBS							
	POLE: COOPER	SSS-5-M-30-S-F-1-1-2							
LIGHTING FIXTURE SCHEDULE GENERAL NOTES:									
	1. FIXTURES WITH EMERGENCY BATTERY BACKUP OR INVERTER BACKUP SHALL BE PROVIDED WITH TEST SWITCH AS REQUIRED BY CODE. TEST SWITCH SHALL EITHER BE FIXTURE MOUNTED OR LOCATED IN NEARBY ACCESSIBLE LOCATION. FINAL LOCATION SHALL BE COORDINATED WITH OWNER, ARCHITE								
	2. EMERGENCY BATTERY BACKUP SHALL BE PROVIDED FOR ENTIRE FIXTURE SHOWN AS EMERGENCY UNLESS OTHERWISE NOTED. MULTIPLE BATTERY PACKS SHALL BE PROVIDED AS NECESSARY TO POWER THE ENTIRE FIXTURE. PROVIDE ALL PARTS NECESSARY FOR A COMPLETE AND CODE COMPLIANT INSTA								
	3. FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL BE CAPABLE OF BEING LOCALLY SWITCHED OFF. BATTERY SHALL ENERGIZE FIXTURE ONLY IN A POWER LOSS SITUATION, NOT A SWITCHING EVENT.								
	4. CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO INSTALLATION.								

FOR ALL FIXTURES REPLACING EXISTING FIXTURES, CONTRACTOR SHALL VERIFY MOUNTING OF EXISTING FIXTURES AND COORDINATE WITH MANUFACTURER TO ENSURE NEW FIXTURES ARE PROVIDED WITH ALL COMPONENT NECESSARY SO THAT NEW INSTALLATION IS COMPATIBLE WITH AND MATCHES EXISTING INSTALLATION.



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WHITEMAN AIR FORCE
BASE

ONE ATTACK AVENUE
KNOB NOSTER, MO 65305

PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258001

REVISION: _____
DATE: _____

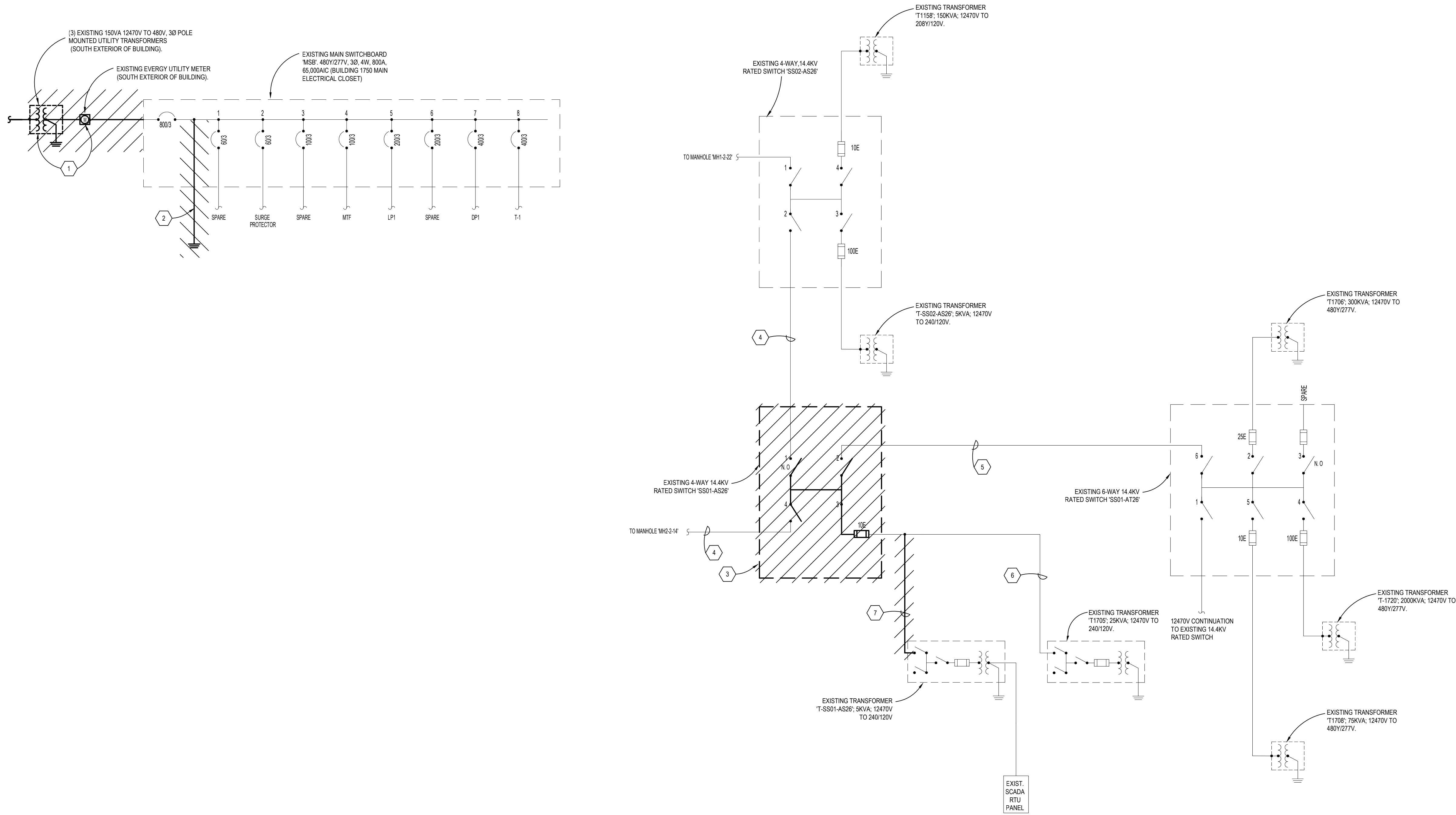
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SHEET TITLE:
Electrical Schedules



ELECTRICAL DEMOLITION ONE LINE DIAGRAM

NO SCALE

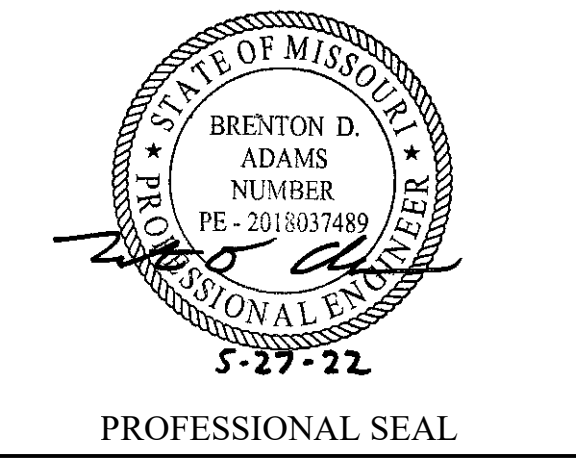
ELECTRICAL DEMOLITION ONE LINE DIAGRAM NOTES	
KEY NOTE	DESCRIPTION
1	EXISTING EVERGY POLE MOUNTED TRANSFORMER AND ASSOCIATED UTILITY METER TO BE DEMOLISHED. DEMOLITION TO BE FULLY COORDINATED WITH UTILITY COMPANY (EVERGY). EVERGY ELECTRICAL SERVICE SHALL NOT BE DEMOLISHED UNTIL NEW SERVICE AND ASSOCIATED WORK IS INSTALLED AND READY TO RE-FEED BUILDING.
2	EXISTING BUILDING GROUNDING ELECTRODE SYSTEM SHALL BE DISCONNECTED FROM PANEL 'MSB'. EXISTING MAIN BONDING JUMPER CONNECTING THE NEUTRAL BUS AND EQUIPMENT GROUND BUS INSIDE OF 'MSB' SHALL BE REMOVED AS 'MSB' WILL NO LONGER BE THE BUILDING'S SERVICE ENTRANCE EQUIPMENT.
3	EXISTING PAD MOUNTED, 4-WAY 14.4KV RATED SWITCH 'SS01-AS26' SWITCH TO BE DEMOLISHED AND REPLACED WITH NEW 6-WAY 14.4KV RATED SWITCH. EXISTING 12470V FEEDERS SHALL BE DISCONNECTED FROM EXISTING SWITCH AND SALVAGED FOR RECONNECTION TO NEW SWITCH BEING INSTALLED AT THIS LOCATION. SEE ELECTRICAL POWER & AUXILIARY SYSTEMS SITE PLAN AND ELECTRICAL ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4	EXISTING (3) 350MCM 15KV RATED CONDUCTORS.
5	EXISTING (3) #4/0 15KV RATED CONDUCTORS.
6	EXISTING (3) #1/0 15KV RATED CONDUCTORS.
7	EXISTING (3) #2 15KV RATED CONDUCTORS.

ALL DEVICES SHOWN "LIGHT" ARE EXISTING TO REMAIN. ALL DEVICES SHOWN "DARK" AND HATCHED ARE EXISTING TO BE DEMOLISHED.

ALL WORK SHOWN DARK, HATCHED AND NOTED IS EXISTING TO BE DEMOLISHED.

ALL MEDIUM VOLTAGE WORK SHALL BE FULLY COORDINATED WITH WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP. INSTALLATION SHALL FULLY MEET ALL REQUIREMENTS AS SET FORTH BY WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP.

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PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258003

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DATE: _____
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ISSUE DATE: 05/27/2022

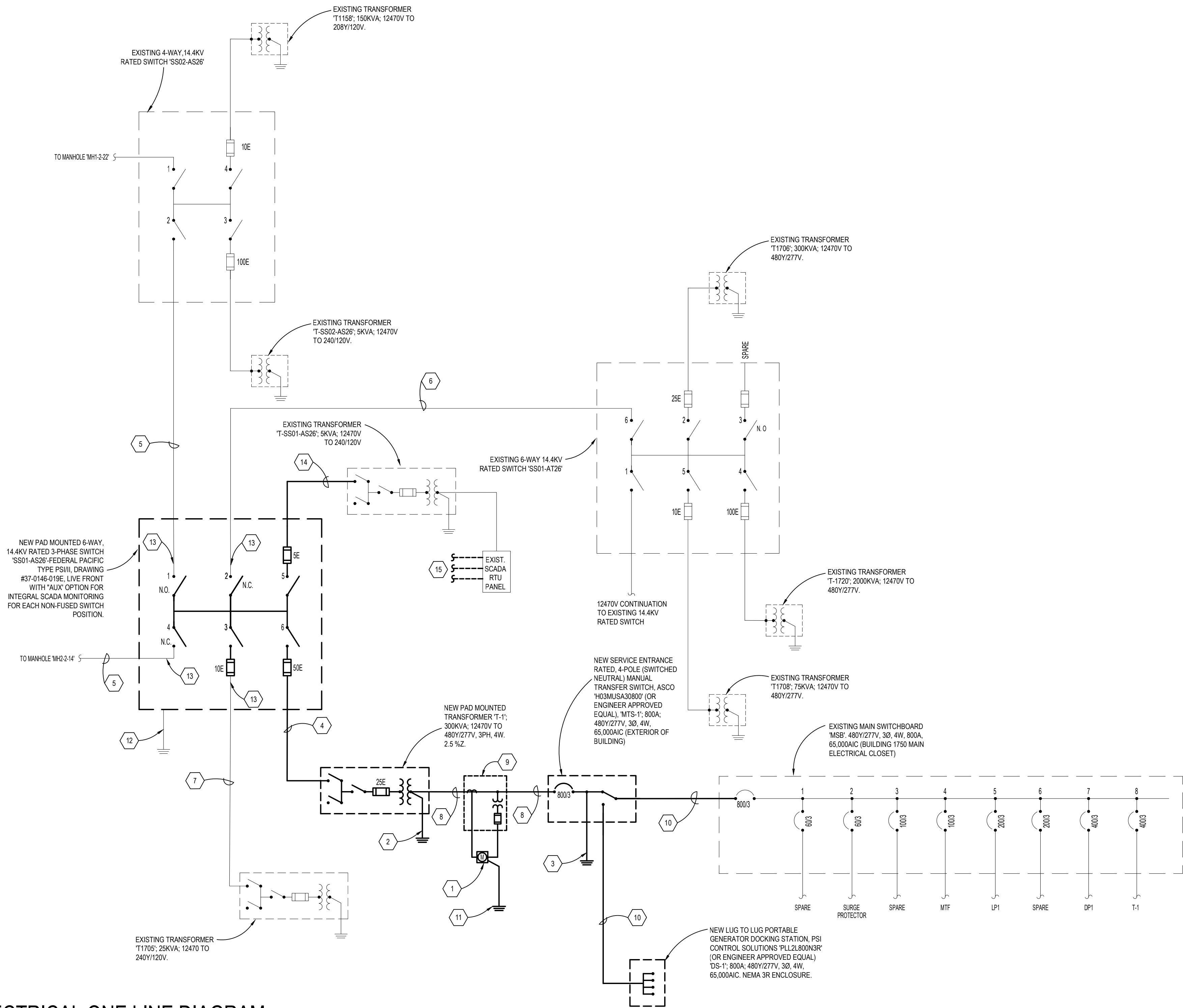
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DESIGNED BY: HB

SHEET TITLE:
Electrical Demolition One
Line Diagram

SHEET NUMBER:

E-301

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05/27/2022



NEW ELECTRICAL ONE LINE DIAGRAM

NO SCALE

NEW ELECTRICAL ONE LINE DIAGRAM NOTES	
KEY NOTE	DESCRIPTION
1	NEW ELECTRICAL CONSUMPTION METER TO BE PROVIDED AND INSTALLED BY CONTRACTOR. SEE ENLARGED POWER PLANS FOR ADDITIONAL INFORMATION.
2	SEE THE GROUND CONNECTIONS DETAIL AND THE TRANSFORMER PAD DETAIL FOR GROUNDING INFORMATION.
3	GROUND SERVICE IN ACCORDANCE WITH THE NEC AND SPECIFIED REQUIREMENTS. ROUTE (1) #2/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT. SEE THE GROUND CONNECTIONS DETAIL FOR ADDITIONAL INFORMATION.
4	ROUTE (3) #2/0 (15KV RATED) TYPE MV-105 CONDUCTORS IN (1) 5" CONDUIT (PART OF 2-WAY DUCT BANK). SEE THE SITE ELECTRICAL UTILITIES PLAN, SPECIFICATIONS AND THE DUCT BANK DETAILS FOR ADDITIONAL INFORMATION.
5	EXISTING (3) 350MCM 15KV RATED CONDUCTORS.
6	EXISTING (3) #4/0 15KV RATED CONDUCTORS.
7	EXISTING (3) #1/0 15KV RATED CONDUCTORS.
8	ROUTE (4) 300MCM IN EACH OF (3) 2 1/2" CONDUITS
9	NEW CURRENT TRANSFORMER (CT) CABINET TO BE PROVIDED AND INSTALLED BY CONTRACTOR. SEE ENLARGED POWER PLANS FOR ADDITIONAL INFORMATION.
10	ROUTE (4) 300MCM & (1) 1/0 GRND IN EACH OF (3) 2 1/2" CONDUITS
11	PROVIDE GROUND CONNECTION TO NEW ELECTRICAL CONSUMPTION METER. REFERENCE ENLARGED ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
12	EXISTING MEDIUM VOLTAGE SWITCH CONCRETE EQUIPMENT PAD GROUND ROD(S) AND/OR GROUND RING IS TO BE MAINTAINED. IF GROUND RING EXISTS, EXTEND GROUND RING AS NECESSARY IN ORDER TO ENCOMPASS THE NEW PORTION OF THE CONCRETE EQUIPMENT PAD. GROUND NEW MV SWITCH TO EXISTING GROUNDING ROD/RING ELECTRODE SYSTEM.
13	SALVAGED 12470V, 3PH FEEDERS SHALL BE RECONNECTED TO NEW SWITCH.
14	ROUTE (3) #2 (15KV RATED) TYPE MV-105 CONDUCTORS IN (1) 5" CONDUIT IN ORDER TO RE-FEED EXISTING TRANSFORMER. COORDINATE EXACT REQUIREMENTS WITH OWNER.
15	PROVIDE ALL INTERCONNECTIONS BETWEEN EXISTING SCADA RTU AND NEW 6-WAY, 14.4 KV RATED SWITCH FOR A COMPLETE SWITCH MONITORING INSTALLATION. COORDINATE EXACT DETAILS WITH WHITEMAN AFB ENERGY AND UTILITIES GROUP AND THE 6-WAY, 14.4 KV RATED SWITCH MANUFACTURER.

ALL POWER OUTAGES SHALL BE FULLY COORDINATED WITH OWNER AND FACILITIES REPRESENTATIVES. OUTAGES SHALL ONLY OCCUR DURING DAYLIGHT HOURS AND SHALL NOT LAST LONGER THAN 8 HOURS.

DEVICES SHOWN LIGHT ARE EXISTING. DEVICES SHOWN DARK ARE NEW.

ALL MEDIUM VOLTAGE WORK SHALL BE FULLY COORDINATED WITH WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP. INSTALLATION SHALL FULLY MEET ALL REQUIREMENTS AS SET FORTH BY WHITEMAN AIR FORCE BASE ENERGY AND UTILITIES GROUP.

ALL WORK ASSOCIATED WITH THE INSTALLATION OF 'MTS-1' AND 'DS-1', INCLUDING ASSOCIATED CONCRETE PAD, IS TO BE PERFORMED ONLY IF ADD ALTERNATE #3 IS ACCEPTED. BASE BID SHALL INCLUDE ROUTING NEW SERVICE ENTRANCE FEEDER DIRECTLY FROM THE NEW CT CABINET TO THE BUILDING'S EXISTING MAIN SWITCHBOARD, 'MSB'.

STATE OF MISSOURI
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PROJECT # T2045-01

SITE #: 6258

ASSET #: 8136258003

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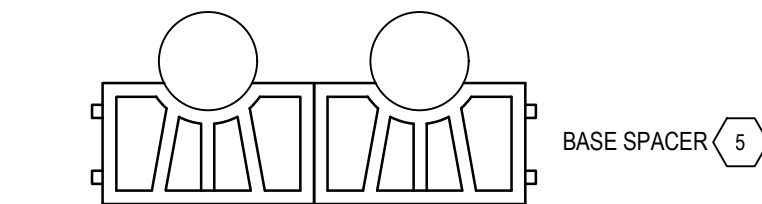
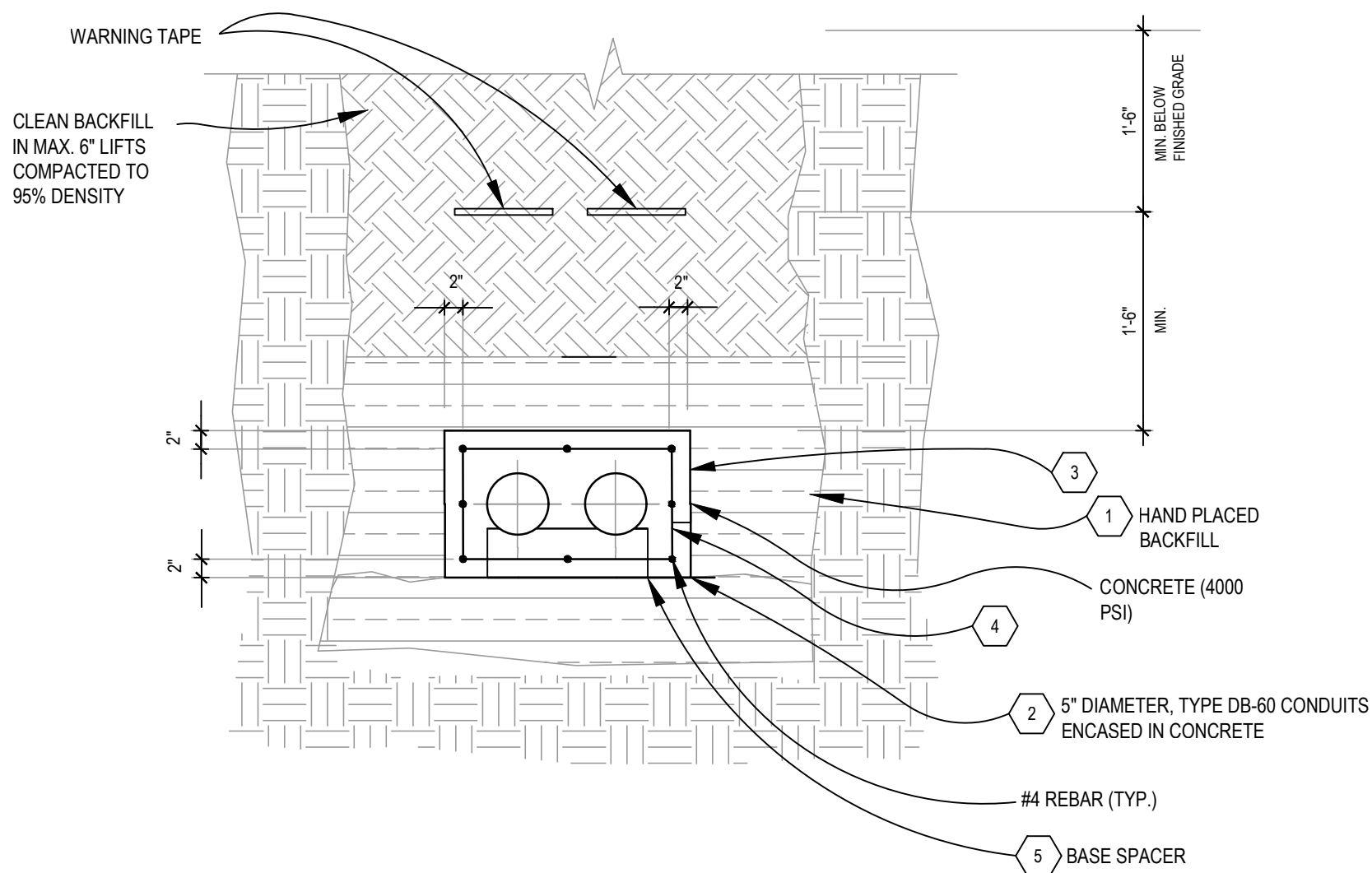
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SHEET TITLE:
New Electrical One Line
Diagram

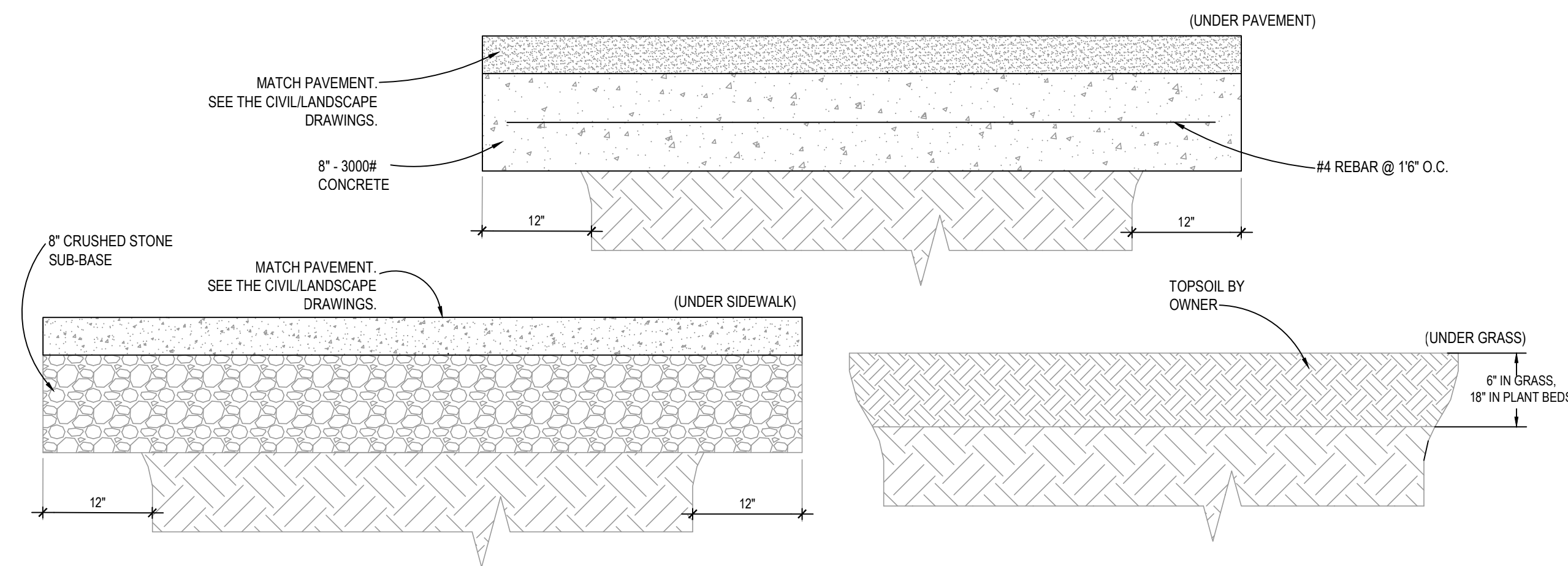
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ELECTRICAL DUCTBANK SPACER DETAIL



TYPICAL ELECTRICAL DUCTBANK TOPPING DETAIL

1 ELECTRICAL DUCTBANK DETAILS

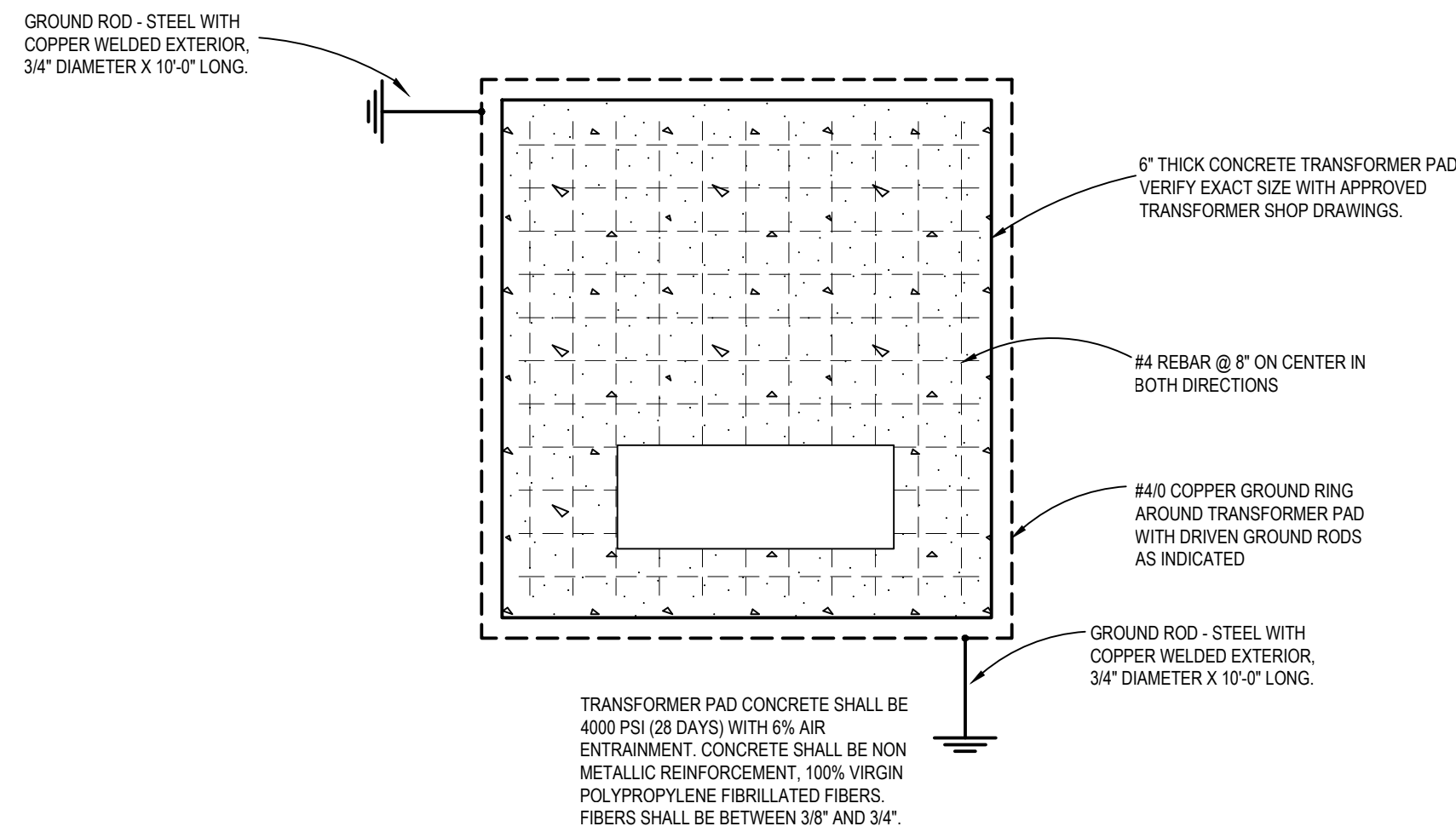
NO SCALE

DUCTBANK DETAIL NOTES: (TYPICAL FOR ALL DUCT BANK DETAILS)

1. EARTH FORMING OF DUCT BACK IS ACCEPTABLE WHERE SIDES OF TRENCH CONSIST OF FIRM, UNDISTURBED SOIL. FORMING SHALL BE REQUIRED TO LIMIT DUCTBANK SIDEWALL THICKNESS TO 12" FROM SIDE OF DUCT.
2. IN PLACING CONCRETE, USE A DELIVERY CHUTE TO MINIMIZE FALL OF THE CONCRETE INTO THE TRENCH. USE A SPLASH BOARD TO DIVERT THE FLOW OF CONCRETE AWAY FROM THE TRENCH SIDES AND AVOID DISLODGING SOIL AND STONES. CONCRETE SLUMP SHALL HAVE CONSISTENCY TO INSURE FLOWING OF GROUT BETWEEN, UNDER, AND ALL AROUND DUCTS. PRECAUTIONS SHALL BE USED TO PREVENT VOIDS AND AIR POCKETS, AND TO PREVENT THE DUCT FROM FLOATING.
3. EACH UNDERGROUND CONDUIT MUST HAVE A MINIMUM 3" CONCRETE ENVELOPE IN EACH DIRECTION AND MAXIMUM OF 6" VERTICAL AND A MAXIMUM OF 12" HORIZONTAL. THE NUMBER AND CONFIGURATION OF CONDUIT IN DUCT BANKS WILL VARY.
4. #4 REBAR TIE LOOP EVERY 48" MAXIMUM O.C.. SPACE BETWEEN LONGITUDINAL REINFORCING REBAR IS 12" MAXIMUM.
5. INSTALL SPACERS AT A MAXIMUM OF EVERY 8 FEET.

DUCTBANK DETAIL GENERAL NOTES: (TYPICAL FOR ALL DUCT BANK DETAILS)

1. SEE SITE ELECTRICAL UTILITIES PLAN AND ONE LINE DIAGRAM FOR DUCTBANK LOCATIONS & NUMBER & SIZE OF CONDUITS.
2. SEE SPECIFICATION FOR DETAILED DUCT BANK REQUIREMENTS.
3. **FOR ALL MEDIUM VOLTAGE ELECTRICAL DUCTBANKS PROVIDE (1) - #2/0 GROUND CONDUCTOR ROUTED CONTINUOUSLY THROUGHOUT THE ELECTRICAL DUCTBANK.**

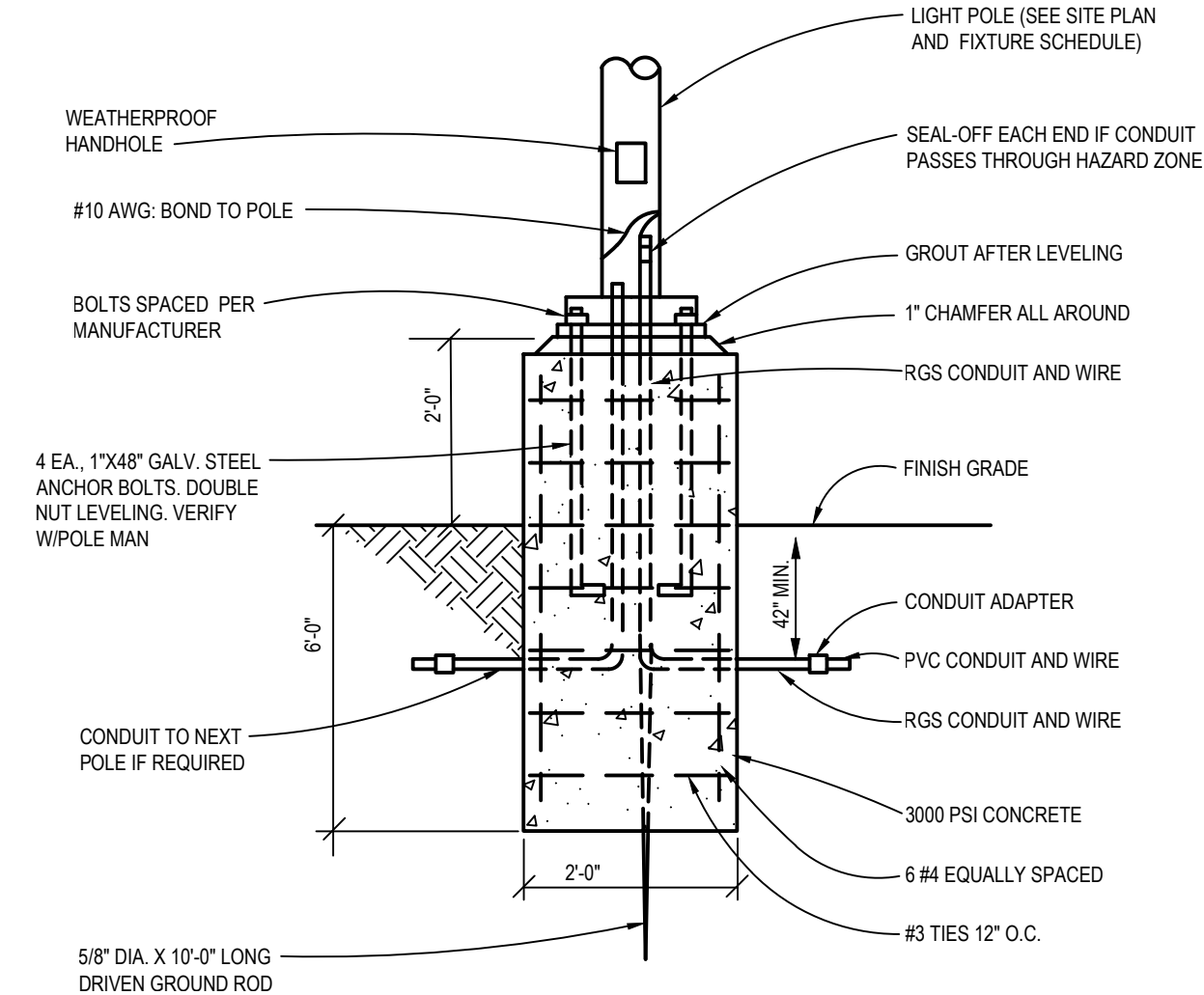


2 TRANSFORMER PAD DETAIL

NO SCALE

TRANSFORMER PAD DETAIL NOTES:

1. TOP OF SLAB MUST BE SMOOTH, FLAT, AND LEVEL.
2. ALL MATERIAL SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE.
3. COORDINATE ACTUAL PAD DIMENSIONS WITH TRANSFORMER EQUIPMENT FURNISHED.



3 PARKING LOT FIXTURE POLE BASE DETAIL

NO SCALE

POLE BASE DETAIL NOTES:

1. FULLY COORDINATE INSTALLATION DETAILS WITH POLE MANUFACTURER.

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PROJECT # T2045-01

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ASSET #: 8136258001 &
8136258003

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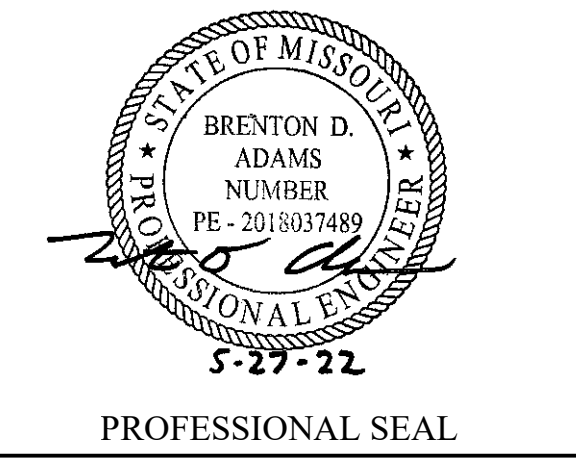
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SHEET NUMBER:

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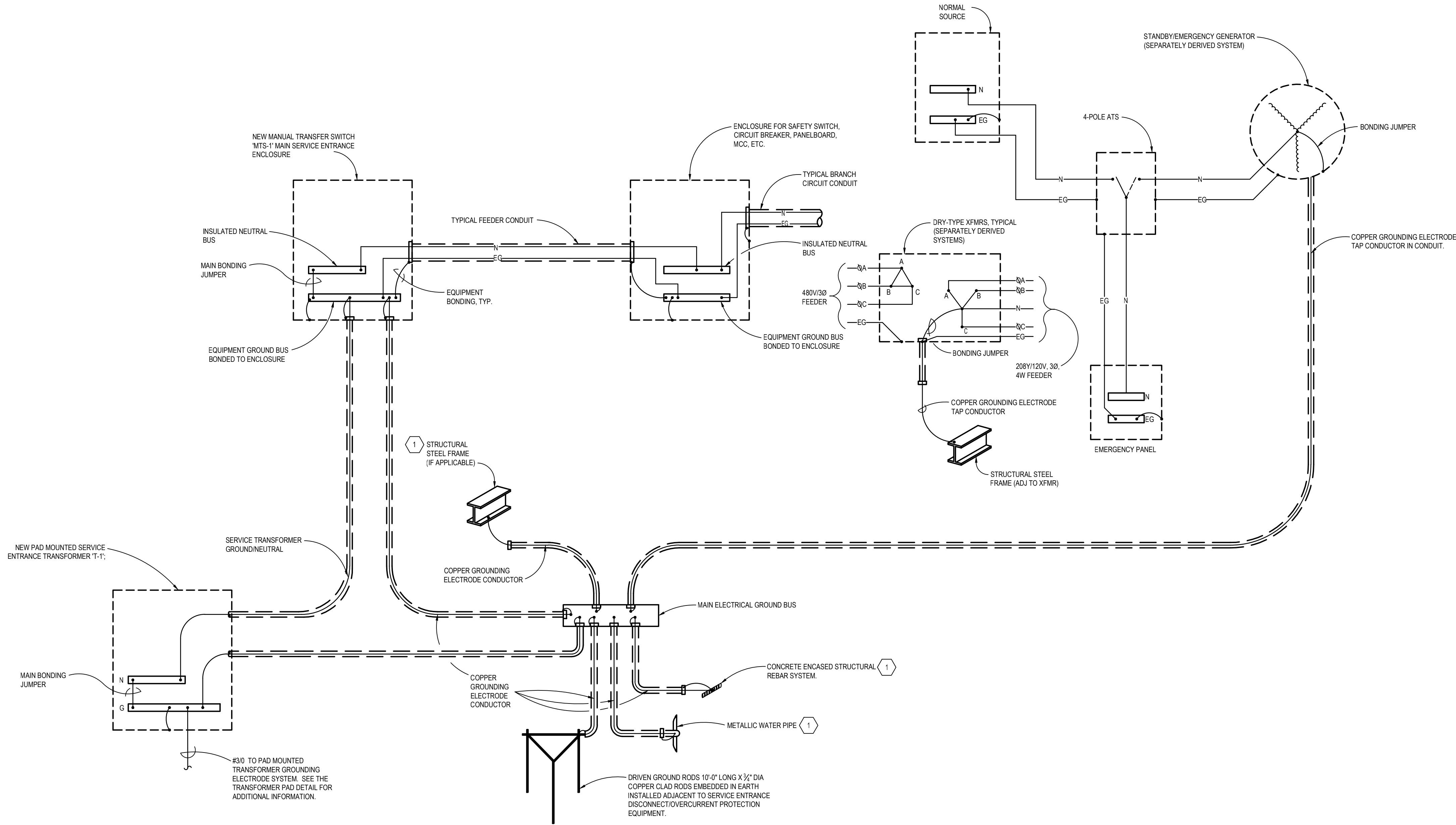
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Electrical Details

SHEET NUMBER:

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1 GROUND CONNECTIONS DETAIL

NO SCALE

GROUND CONNECTIONS DETAIL NOTES:
1 ALL BUILDING ELECTRODES THAT ARE PRESENT SHALL BE UTILIZED PER NEC.

GENERAL NOTE: SEE ONE LINE DIAGRAM FOR
GROUNDING ELECTRODE CONDUCTOR SIZES.

ALL WORK ASSOCIATED WITH THE INSTALLATION OF "MTS-1"
AND "DS-1", INCLUDING ASSOCIATED CONCRETE PAD, IS TO BE
PERFORMED ONLY IF ADD ALTERNATE #3 IS ACCEPTED.
BASE BID SHALL INCLUDE ROUTING NEW SERVICE ENTRANCE
FEEDER DIRECTLY FROM THE NEW CT CABINET TO THE
BUILDING'S EXISTING MAIN SWITCHBOARD, "MSB".