US Army Corps of Engineers ®
OMAHA DISTRICT

GARRISON DAM, NORTH DAKOTA
UPPER BASIN RESIDENT OFFICE UPGRADES

SOLICITATION NO.: W9128F26QA001
CONTRACT NO.:
ISSUE DATE: MAY 2026

INDEX

GENERAL

FILE NAME	SHEET ID NO.	DESCRIPTION
GR00118G-001.PDF	G-001	COVER SHEET AND INDEX
GR00118G-002.PDF	G-002	ABBREVIATIONS

ARCHITECTURAL

FILE NAME	SHEET ID NO.	DESCRIPTION
GR00118AD101.PDF	AD101	DEMOLITION FLOOR PLAN
GR00118A-101.PDF	A-101	FLOOR PLAN
GR00118A-105.PDF	A-105	REFLECTED CEILING PLAN
GR00118A-601.PDF	A-601	SCHEDULES AND DETAILS

INTERIORS

FILE NAME	SHEET ID NO.	DESCRIPTION
GR00118I-101.PDF	I-101	FURNITURE PLAN

FIRE PROTECTION

FILE NAME	SHEET ID NO.	DESCRIPTION
GR00118F-101.PDF	F-101	LIFE SAFETY PLAN
GR00118FA101.PDF	FA101	FIRE ALARM PLAN
GR00118FA501.PDF	FA501	FIRE ALARM DETAILS

ELECTRICAL

FILE NAME	SHEET ID NO.	DESCRIPTION
GR00118EL101.PDF	EL101	LIGHTING PLAN
GR00118EP101.PDF	EP101	POWER PLAN
GR00118EP501.PDF	EP501	ELECTRICAL DETAILS

TELECOMMUNICATIONS

FILE NAME	SHEET ID NO.	DESCRIPTION
GR00118TN001.PDF	TN001	TELECOMMUNICATIONS NOTES AND SUPPLEMENTAL LEGEND
GR00118TN101.PDF	TN101	TELECOMMUNICATIONS PLAN
GR00118TN401.PDF	TN401	TELECOMMUNICATIONS DETAILS

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DAVENPORT.WILLIAM.C.1403662271 Digitally signed by DAVENPORT.WILLIAM.C.1403662271 Date: 2026.05.27 08:39:55 -05'00' CHIEF, DESIGN BRANCH	SUBMITTED BY: PARKER.ASKELON.N.1180825106 Digitally signed by PARKER.ASKELON.N.1180825106 Date: 2026.05.27 09:37:52 -05'00' RA CHIEF: ARCHITECTURAL SECTION
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US Army Corps of Engineers
Omaha District

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CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1616 CAPITOL AVE.
OMAHA, NE 68102

GARRISON DAM, NORTH DAKOTA
UPPER BASIN RESIDENT OFFICE UPGRADES

COVER & INDEX

SHEET ID
G-001

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ADVERTISEMENT

ABBREVIATIONS

L	ANGLE
A/C	AIR CONDITIONING
A/C UNIT	AIR CONDITIONING UNIT
AB	ANCHOR BELT
ABV	ABOVE
AC	ALTERNATING CURRENT
ACC	ACCESSIBLE
ACI	AMERICAN CONCRETE INSTITUTE
ACR	ACRYLIC PLASTIC
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACSR	ALUMINUM CABLE STEEL REINFORCED
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT, ADJOINING, ADJUSTABLE
ADO	AUTOMATIC DOOR OPERATOR
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AI	AREA INLET
AIC	AMPERE INTERRUPTING CAPACITY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.L.	ACTIVE LEAF
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMP	AMPERE
ANOD	ANODIZE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
ARI	AMERICAN REFRIGERATION INSTUTUTE
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
ATC	ACOUSTIC TILE CEILING
AUTO	AUTOMATIC
AVG	AVERAGE
AWG	AMERICAN WIRE GUAGE
AWT	ACOUSTICAL WALL TREATMENT
BB	BULLETIN BOARD
BC	BOOKCASE
BD	BOARD
BDRY	BOUNDARY
BEJ	BRICK EXPANSION JOINT
BEV	BEVEL
BITUM	BITUMINOUS
BJT	BED JOINT
BL	BUILDING LINE
BLDG	BUILDING
BLW	BELOW
BM	BENCHMARK
BO	BOTTOM OF
BOT	BOTTOM
BP	BACK PLASTER(ED)
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
Btu	BRITISH THERMAL UNIT
BtuH	BTU PER HOUR
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CCT	CUBICLE CURTAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CE	COVER ELEVATION
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CFI	CONDUCTIVE FLOORING
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CH BD	CHALKBOARD
CHFR	CHAMFER
CHIM	CHIMNEY
CHK	CHECK
CHR PL	CHROME PLATED
CI	CAST IRON
CI	CURB INLET
CIP	CAST-IN-PLACE
CIRC	CIRCULAR
CJ	CONTROL JOINT
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CKT BRKR	CURCUIT BREAKER
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLGL	CLEAR GLASS
CLL	CONTRACT LIMIT LINE
CLO	CLOSET
CLOS	CLOSURE
CLR	CLEAR(ANCE)
CLWG	CLEAR WIRED GLASS
cm	CENTIMETER(S)
CMP	CORRUGATED METAL PIPE
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CNL	CONDUCTIVE NEOPRENE LATEX
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
CO2	CARBON DIOXIDE
COL	COLUMN
COM	COMMON
COMB	COMBUSTION
COMPT	COMPARTMENT
CONC	CONCRETE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR

CORR	CORRIDOR
COV	COVER
CPRS	COMPRESSSIBLE
CPT	CARPET
CRCMF	CIRCUMFERENCE
CRES	CORROSIVE RESISTANT STEEL
CRG	CROSS GRAIN
CRS	COURSE(S)
CS	CAST STONE
CSK	COUNTERSUNK
CSMT	CASEMENT
CT	CERAMIC TILE
CT	CURRENT TRANSFORMER
C TO C	CENTER TO CENTER
CTR	CENTER
CU	CONDENSING UNIT
Cu	COPPER
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU YD	CUBIC YARDS
CV	CEILING VENT
CVH	CONDUCTIVE VINYL HOMOGENEOUS (SHEET TYPE)
CW	COLD WATER
CYL	CYLINDER
d	PENNY (AS IN NAIL -10D)
DAT	DATUM
DB	DRY BULB
DBL	DOUBLE
DBL ACT DR	DOUBLE ACTING DOOR
DCJ	DOWELED CONTROL JOINT
DCJT	DUMMY CONTROL JOINT
DEG	DEGREE
DEMO	DEMOLITION
DEPR	DEPRESSION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DH	DUCT HEATER
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISC	DISCONNECT
DISP	DISPENSER
DISTR PNL	DISTRIBUTION PANEL
DIV	DIVISION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DMPR	DAMPER
DMT	DEMOUNTABLE
DN	DOWN
DR	DOOR
DR	DRAIN
DRB	DRAINBOARD
DR CL	DOOR CLOSER
DS	DOUBLE STRENGTH (GLASS)
DS	DOWNSPOUT
DT	DRAIN TILE
DVTL	DOVETAIL
DWG	DRAWING
DWLS	DOWELS
DWR	DRAWER
DWTR	DUMBWAITER
DX	DIRECT EXPANSION
E	EAST
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION - GRADE OR BUILDING
ELEC	ELECTRIC
EM	EXPANDED METAL
EMD	ESTIMATED MAXIMUM DEMAND
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
ENTR	ENTRANCE, ENTERING
EP	ELECTRICAL PANELBOARD
EPRF	EXPLOSION PROOF
EPY	EPOXY COATING
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXC	EXCAVATE
EXH	EXHAUST
EXH A	EXHAUST AIR
EXST	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EXP BT	EXPANSION BOLT
EXT	EXTERIOR
F	FAHRENHEIT
FA	FIRE ALARM
FA	FRESH AIR
FAC	FIRE APPARATUS CLOSET
FAI	FRESH AIR INTAKE
F BRK	FIRE BRICK
FC	FOOT CANDLE
FC BRK	FACE BRICK
FCG	FACING
FCJ	FLOOR CONSTRUCTION JOINT
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDMPR	FIRE DAMPER
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FGL	FIBERGLASS
FH	FIRE HYDRANT
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHR	FIRE HOSE RACK
FHS	FIRE HOSE STATION
FHWS	FLAT HEAD WOOD SCREW
FIG	FIGURE
FIN	FINISH
FIN FLR	FINISH FLOOR
FIXT	FIXTURE
FJT	FLUSH JOINT
FLASH	FLASHING
FLR	FLOOR

FLEX	FLEXIBLE
FLG	FLOORING
FLR PL	FLOOR PLATE
FLUOR	FLUORESCENT
FN	FENCE
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIRE PARTITION
FP	FIREPROOF
FPM	FEET PER MINUTE
FR	FIRE RESISTANT
FR	FRAME
FRG	FORGED
FRMG	FRAMING
FRT	FIRE-RETARDANT
FS	FULL SIZE
FSTNR	FASTEN(ER)
FT	FEET
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
FW	FIRE WATER
FWC	FABRIC WALL COVERING
G	NATURAL GAS
GA	GAGE
GAL	GALLON(S)
GALV	GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GF	GROUND FACE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFE	GOVERNMENT-FURNISHED EQUIPMENT
GFE/CI	GOVERNMENT-FURNISHED EQUIPMENT CONTRACTOR INSTALLED
GI	GALVANIZED IRON
GIP	GALVANIZED IRON PIPE
GKT	GASKET(ED)
GL	GLASS
GL BLK	GLASS BLOCK
GLF	GLASS FIBER
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNITS
G	GROUND
GOV'T	GOVERNMENT
GPM	GALLONS PER MINUTE
GPT	GYPSUM TILE
GRAN	GRANITE
GR LN	GRADE LINE
GRTG	GRATING
GST	GLAZED STRUCTURAL TILE
GSU	GLAZED STRUCTURAL UNITS
GT	GROUT
GWT	GLAZED WALL TILE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
HB	HOSE BIBB
HC	HOLLOW CORE
HCD	HALON CONTAINMENT DAMPER
HCL	HORIZONTAL CONTROL LINE
HCP	HANDICAPPED
HD	HEAD
HD	HEAVY DUTY
HDBD	HARDBOARD
HD JT	HEAD JOINT
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HES	HIGH EARLY-STRENGTH CEMENT
HEX	HEXAGON
HH	HANDHOLE
HK	HOOK(S)
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HP	HORSEPOWER
HPT	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HSGYP	HIGH-STRENGTH GYPSUM PLASTER
HSKPG	HOUSEKEEPING
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HYDR	HYDRAULIC
Hz	HERTZ
IC	INTERCOM
ID	INSIDE DIAMETER
IESNA	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
ILK	INTERLOCK
IN	INCH
INCIN	INCINERATOR
INCL	INCLUDED
INSF	INSULATING FILL
INSUL	INSULATION
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
I.P.S.	INSIDE PIPE SIZE
JAN CLO	JANITOR'S CLOSET
J-BOX	JUNCTION BOX
JCT	JUNCTION
JST	JOIST
JT	JOINT
KIP	KILOPOUND (1000 POUNDS)
KIT	KITCHEN
KOP	KNOCKOUT PANEL
KPL	KICKPLATE
km	KILOMETER
kV	KILOVOLTS
kVA	KILOVOLT AMPERES
kVAR	KILOVOLT AMPERES REACTIVE
kW	KILOWATT
KWY	KEYWAY
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAT	LEAVING AIR TEMPERATURE
LAU	LAUNDRY
LAV	LAVATORY

LB	LAG BOLT
LB	POUND
LBL	LABEL
LBR	LUMBER
LC	LIGHT CONTROL
LD	LOAD
LDG	LOADING
LG	LENGTH
LH	LEFT HAND(ED)
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LLD	LEAD-LINED DOOR
LM	LUMEN
LMST	LIMESTONE
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LIGHTPROOF
LPD	LIGHTPROOF DOOR
LPL	LIGHTPROOF LOUVER
LPT	LOW POINT
LR	LIVING ROOM
LS	LAWN SPRINKLER
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWT	LEAVING WATER TEMPERATURE
m	METER(S)
M&B	MATCHED AND BEADED
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MB	MACHINE BOLTS
MBR	MEMBER
MC	MEDICINE CABINET
MCJ	MASONRY CONTROL JOINT
MCO	METAL-CASED OPENING
MDS	METAL DIVIDER STRIP
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDIUM
MEMB	MEMBRANE
MES	METAL EDGE STRIP
MFD	METAL FLOOR DECKING
MFG	MANUFACTURING
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MGT	MATTE-GLAZED TILE
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
ML	MONOLITHIC
MLDG	MOULDING
MLWK	MILLWORK
mm	MILLIMETER(S)
MNIC	MATERIAL NOT IN CONTRACT (INSTALLATION BY CONTRACTOR)
MO	MASONRY OPENING
MOD	MODULAR
MOD.	MODIFIED
MOT	MOTOR
MP	MOVABLE PARTITION
MR	MOP RECEPTOR
MRB	MARBLE BASE
MRD	METAL ROOF DECKING
MS	MACHINE SCREWS
MT	METAL THRESHOLD
MT	MOUNT
MTD	MOUNTED
MTFR	METAL FURRING
MTL	METAL
MVBL	MOVABLE
MULL	MULLION
N	NORTH
NAT	NATURAL
NC	NORAMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
Ni	NICKEL
NIC	NOT IN CONTRACT
NL	NAILABLE
N.L.	NEOPRENE LATEX
NM	NONMETALLIC
NO	NORMALLY OPEN
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
N"REQD	NOT REQUIRED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBSC	OBSCURE
OBW	OBSERVATION WINDOW
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFC	OFFICE
OGL	OBSCURE GLASS
OH	OVERHEAD
OHMS	OVALHEAD MACHINE SCREW
OHWS	OVALHEAD WOOD SCREW
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPQ	OPAQUE
OPS	OPERATIONS
OS & Y	OUTSIDE SCREW AND YOKE
OWGL	OBSCURE WIRED GLASS
P	POLE
PA	PUBLIC ADDRESS
PAR	PARALEL
PB	PANIC BAR
PBD	PARTICLE BOARD
PBS	PUSH BUTTON STATION
PC	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	CEMENT PLASTER (PORTLAND)
PD	PAVEMENT DRAIN
PED	PEDESTAL

PERF	PERFORATE(D)
PERIM	PERIMETER
PH	PHASE
PHAR	PHARMACY
PI	POINT OF INTERSECTION
PIPU	PREFAB ISOLATION POWER UNIT
PIV	POST INDICATING VALVE
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLG	PILING
PL GL	PLATE GLASS
PLYWD	PLYWOOD
PNL	PANEL
PT	PAINT(ED)
POL	POLISHED
PORC	PORCELAIN
PORT	PORTABLE
PPGL	POLISHED PLATE GLASS
PPM	PARTS PER MILLION
PR	PAIR
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PREFMD	PREFORMED
PRKG	PARKING
PROJ	PROJECT
PRV	PRESSURE-REGULATING VALVE
PS	PIPE SPACE
P.S.	PRESSED STEEL
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PNEUMATIC TUBE
PT.	POINT
PT CONC	POST-TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PV	PAVED
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PW	PASS WINDOW
QT	QUARRY TILE
QT.	QUART
QTR	QUARTER
1/4 RND	QUARTER ROUND
QTY	QUANTITY
R	RADIUS
R	RANGE
R	RISER
RA	RETURN AIR
RAB	RABBETED
RA GR	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RB	RUBBER BASE, RESILIENT BASE
RBL	RUBBLE STONE
RBR	RUBBER
RC	REMOTE CONTROL
RCP	REINFORCED CONCRETE PIPE
RCVR	RECEIVER
RD	ROOF DRAIN
RDG INS	RIGID INSULATION
RECPT	RECEPTACLE
REC ROOM	RECREATION ROOM
RECT	RECTIFIER
REF	REFERENCE
REFL	REFLECT
REFR	REFRIGERATION
REG	REGISTER
REG	REGLET
REINF	REINFORCE
REM	REMOVE(ABLE)
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RFG	ROOFING
RH	RELATIVE HUMIDITY
RH	RIGHT HAND
RH	ROOF HATCH
RK	RACK
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RETRACTABLE PARTITION
RPM	REVOLUTIONS PER MINUTE
RPRT	RAISED PATTERN RUBBER TILE
RTF	RUBBER TILE FLOOR
RVS	REVERSE
RVT	RIVET
RWC	RAINWATER CONDUCTOR
S	SOUTH
SA	SUPPLY AIR
SB	SPLASH BLOCK
S.B.	SECURITY BARS
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	STORM DRAIN
SDI	STEEL DOOR INSTITUTE
SECT	SECTION
SEQ	SEQUENCE
SFGL	SAFETY GLASS
SFTU	STRUCTURAL FACING TILE UNIT
SFU	STRUCTURAL FACING UNIT
SG	SHEET GLASS
SHLDR	SHOULDER
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SKLT	SKYLIGHT
SLNT	SEALANT
SLV	SLEEVE
SM	SHEET METAL
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
SPC	SPACER
SPCL	SPECIAL

SPD	SOUNDPROOF DOOR
SPEC	SPECIFICATION
SPF	SOUNDPROOF
SP FIN	SPECIAL FINISH
SPH	SPACE HEATER
SPKR	SPEAKER
SQ	SQUARE
SQHD	SQUARE HEAD
S&R	SHELF AND ROD
SS	SERVICE SINK
SS	STANDING SEAM (ROOF)
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STG	SEATING
STL	STEEL
STOR	STORAGE
ST PR	STATIC PRESSURE
STR	STRINGER
STRUCT	STRUCTURAL
STWY	STAIRWAY
SUB FL	SUBFLOOR
SUSP	SUSPENDED
SV	SHEET VINYL
SW	SWITCH
SWBD	SWITCHBOARD
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
TAN	TANGENT
TB	TOWEL BAR
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
TER	TERRAZZO
TERM	TERMINAL
T&G	TONGUE AND GROOVE
TGL	TOGGLE
TH	TRUSS HEAD
THK	THICKNESS)
THRES	THRESHOLD
TK BD	TACKBOARD
TKS	TACKSTRIP
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TRANS	TRANSOM
TRANS	TRANSVERSE
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
UC	UNIT COOLER
UGND	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UPS	UNINTERRUPTABLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
UV	UNIT VENTILATOR
V	VOLT
VAR	VARNISH
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VCT	VITRIFIED CLAY TILE
VD	VAULT DOOR
VENT	VENTILATOR(TION)
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VG	VERTICAL GRAIN
VH	VINYL HOMOGENEOUS
VJ	V-JOINTED
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VRM	VERMICULITE
VS	VENT STACK
V.T.	VOLTAGE TRANSFORMER
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WB	WET BULB
WBL	WOOD BLOCKING
WC	WATER CLOSET
W/C	WHEELCHAIR
WCO	WOOD-CASED OPENING
WD	WOOD
WD	WOOD DOOR
WDSP	WASTE DISPOSER
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WALL HUNG
WH	WATER HEATER
WHB	WHEEL BUMPER
WHM	WATT-HOUR METER
WI	WROUGHT IRON
WKSH	WORK SHOP
WM	WIRE MESH
W/O	WITHOUT
WP	WATERPROOF(ING)
WP	WEATHERPROOF
WP	WORKING POINT
WR	WASTE RECEPTACLE
WRB	WARDROBE
WS	WATERSTOP
W.S.	WASTE STACK
WSCT	WAINSCOT
WT	WEIGHT
WTH	WIDTH
W/W	WALL TO WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WWR	WELDED WIRE REINFORCEMENT
XFMR	TRANSFORMER
YD	YARD
YD	YARD DRAIN

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

File Path: C:\Users\jjkaitany\Documents\GR00118_UBRO_AI_ghostp46.rvt

ISSUE DATE: MAY 2026
SOLICITATION NO.: W912BF26QA001
CONTRACT NO.:

DESIGNED BY: J. KAITANY
DRAWN BY: J. KAITANY
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SUBMITTED BY: A. PARKER
SIZE:
ANSI D
FILE NAME: GR00118_UBRO_AI.rvt

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US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1616 CAPITOL AVE.
OMAHA, NE 68102

GARRISON DAM, NORTH DAKOTA
UPPER BASIN RESIDENT OFFICE UPGRADES

ABBREVIATIONS

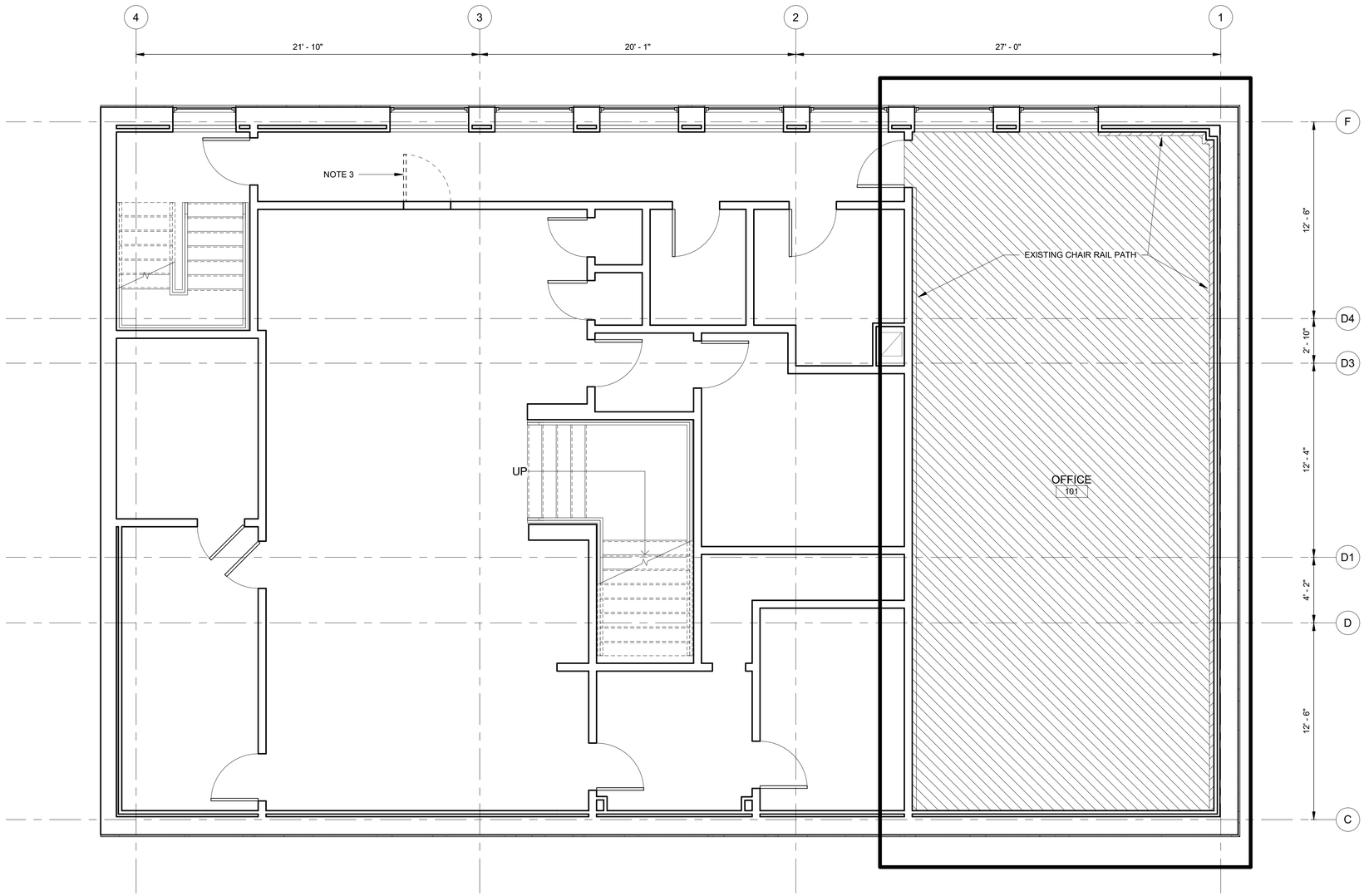
SHEET ID
G-002

ADVERTISEMENT

GENERAL NOTES:

1. REMOVE EXISTING CHAIR RAIL. PATCH AND REPAIR THE WALL TO MATCH SCHEDULED WALL FINISH.
2. REMOVE EXISTING CARPET, BASE TRIM AND UNDERNEATH ASBESTOS TILE.
3. CONTRACT OPTION FOR NEW DOOR ASSEMBLY INSTALL. ENSURE DOOR SWING IS CONFIGURED AS SHOWN IN ACCORDANCE WITH APPLICABLE BUILDING CODES AS INDICATED IN THE LIFE SAFETY PLAN - SEE SHEET F-101.

LEGEND	
	SCOPE RENOVATION AREA
	CARPET AND TILE REMOVAL AREA



B2 DEMOLITION FLOOR PLAN

1/4" = 1'-0"

0 2' 4' 8'

PLAN NORTH

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MARK	DESCRIPTION	DATE

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Plot Date: 5/26/2026 10:52:41 AM

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CHECKED BY: A. PARKER
SUBMITTED BY: A. PARKER
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FILE NAME: GR00118_UBRO_AI.rvt

ISSUE DATE: 04/03/2026
SOLICITATION NO.: W912BF26QA001
CONTRACT NO.:

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OMAHA DISTRICT
1616 CAPITOL AVE.
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GARRISON DAM, NORTH DAKOTA
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DEMOLITION FLOOR PLAN

SHEET ID

AD101

BACKCHECK

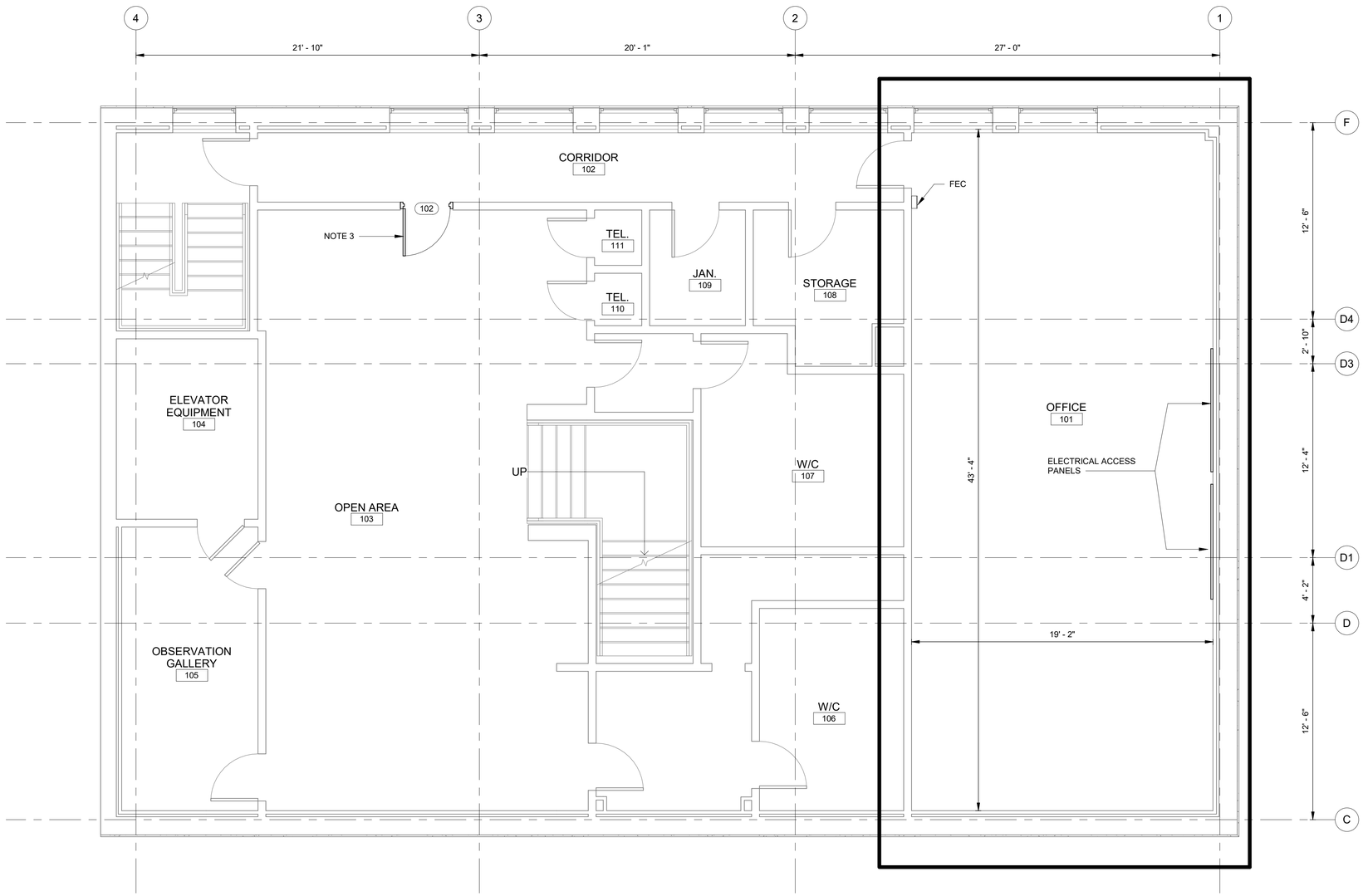
GENERAL NOTES:

1. INTERIOR FURRED WALLS IN THE AREA SUBJECT TO RENOVATION WERE DRAWN BASED ON AS-BUILTS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

2. REMOVE EXISTING CHAIR RAIL AND PATCH AND REPAIR THE WALL BEHIND TO MATCH SCHEDULED WALL FINISH.

3. CONTRACT OPTION FOR NEW DOOR ASSEMBLY INSTALL. ENSURE DOOR SWING IS CONFIGURED AS SHOWN IN ACCORDANCE WITH APPLICABLE BUILDING CODES AS INDICATED IN THE LIFE SAFETY PLAN - SEE SHEET F-101.

LEGEND	
	SCOPE RENOVATION AREA



B2 FLOOR PLAN - NEW OFFICE LAYOUT

1/4" = 1'-0"

0 2' 4' 8'

PLAN NORTH

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SUBMITTED BY: A. PARKER
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FLOOR PLAN

SHEET ID

A-101

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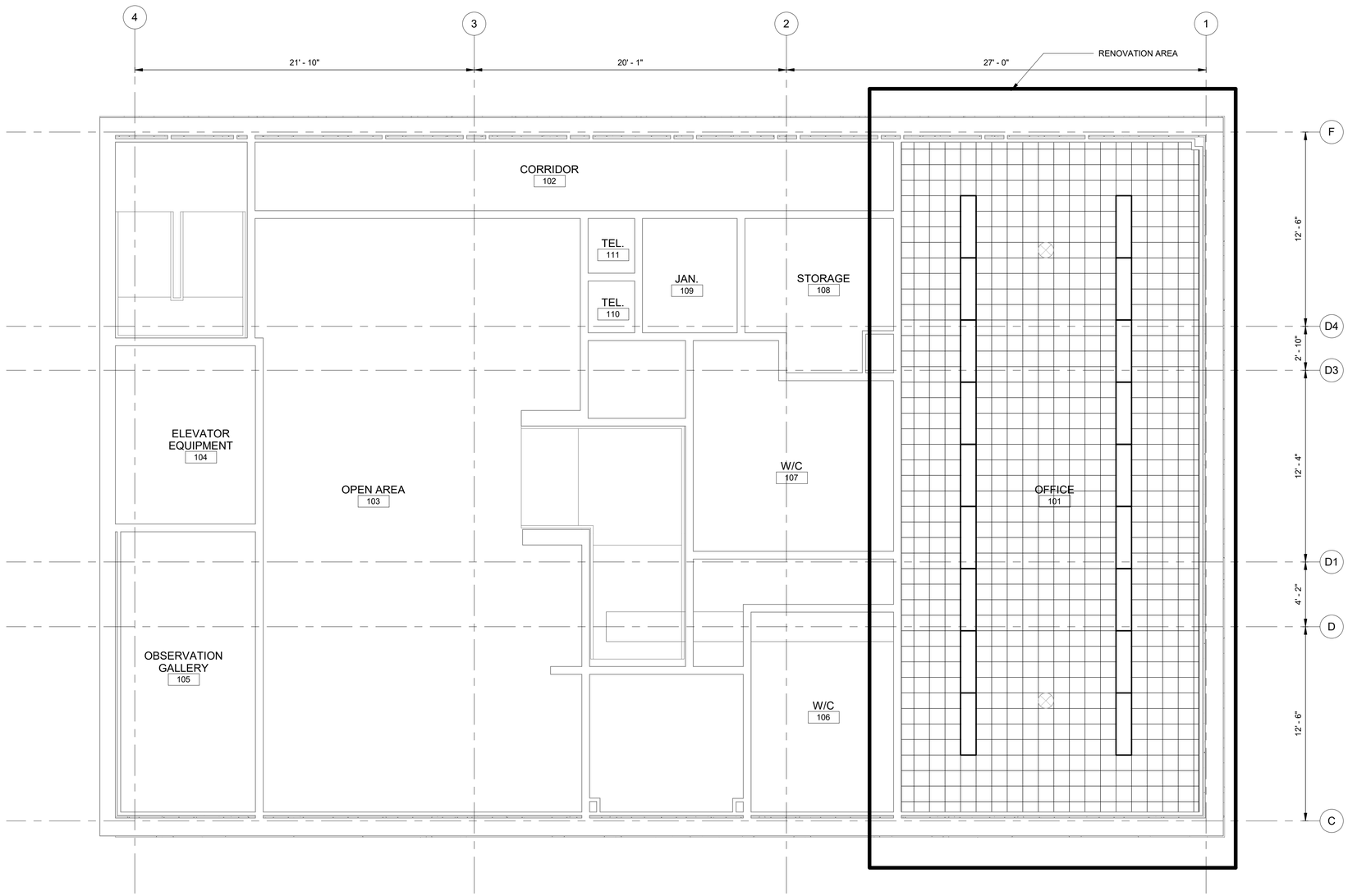
BACKCHECK

LEGEND	
⊗	EXISTING SUPPLY AIR DIFFUSERS
▭	LIGHTING SYSTEM (SEE ELEC.)
▦	12" X 12" EXISTING CEILING ASSEMBLY



B2 REFLECTED CEILING PLAN - NEW WORK

1/4" = 1'-0"

0 2' 4' 8'

PLAN NORTH

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DRAWN BY: O. RIVERA
CHECKED BY: A. PARKER
SUBMITTED BY: A. PARKER
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OMAHA DISTRICT
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REFLECTED CEILING PLAN

SHEET ID
A-105

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BACKCHECK

ROOM FINISH SCHEDULE

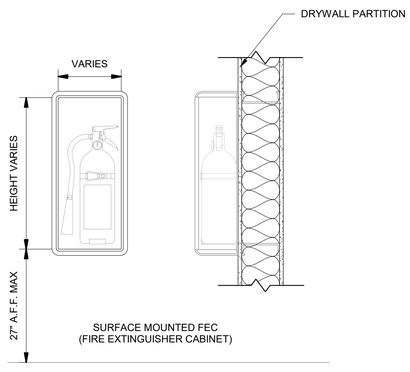
ROOM NO	ROOM NAME	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	FLOOR FINISH	BASE	CEILING FINISH	CEILING HEIGHT	NOTES & REMARKS (SEE NOTES)
101	OFFICE	PT	PT	PT	PT	CPT	RB	EXISTING ACT	10" -0"	
102	CORRIDOR	-	-	-	-	-	-	-	-	
103	OPEN AREA	-	-	-	-	-	-	-	-	
104	ELEVATOR EQUIPMENT	-	-	-	-	-	-	-	-	
105	OBSERVATION GALLERY	-	-	-	-	-	-	-	-	
106	W/C	-	-	-	-	-	-	-	-	
107	W/C	-	-	-	-	-	-	-	-	
108	STORAGE	-	-	-	-	-	-	-	-	
109	JAN.	-	-	-	-	-	-	-	-	
110	TEL.	-	-	-	-	-	-	-	-	
111	TEL.	-	-	-	-	-	-	-	-	

DOOR SCHEDULE

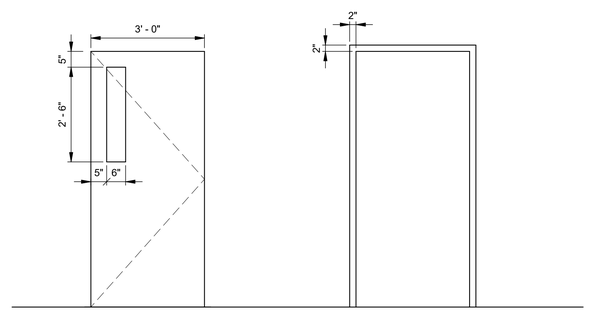
DOOR NO.	TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR MATERIAL	FIRE RATING	FRAME MATERIAL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	COMMENTS:
102	FLUSH	3' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL	-	HOLLOW METAL	-	-		CONTRACT OPTION TO INSTALL NEW DOOR ASSEMBLY.

FINISH LEGEND

CPT	CARPET
PT	PAINT
ACT	ACOUSTIC CEILING TILE
RB	RUBBER BASE



G1 SURFACE MOUNTED FEC DETAILS (TYP.)
1" = 1'-0"
0 0.5' 1' 2'



G7 NEW INTERIOR DOOR - CONTRACT OPTION
1/2" = 1'-0"
0 1' 2' 4'

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MARK	DESCRIPTION	DATE

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DRAWN BY: O. RIVERA
CHECKED BY: A. PARKER
SUBMITTED BY: A. PARKER
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SOLICITATION NO.: W912BF26QA001
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1616 CAPITOL AVE.
OMAHA, NE 68102

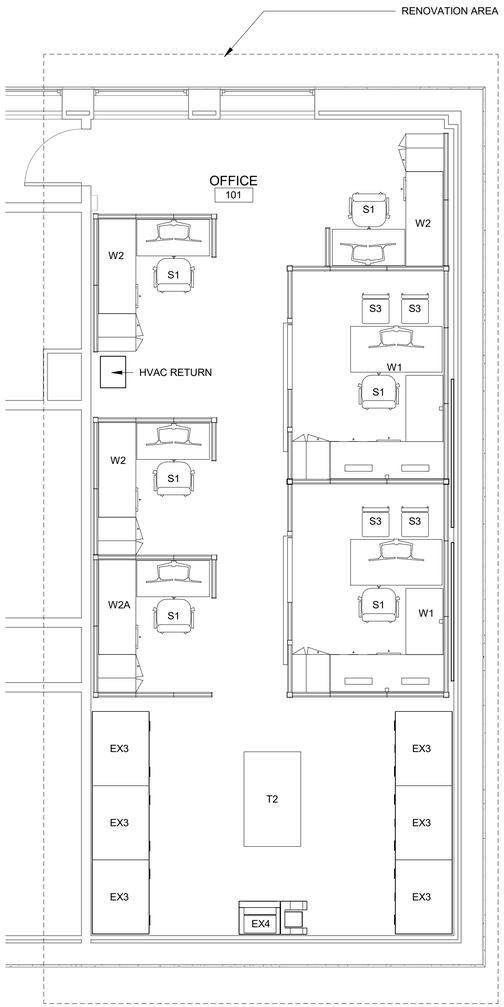
GARRISON DAM, NORTH DAKOTA
UPPER BASIN RESIDENT OFFICE UPGRADES

SCHEDULES AND DETAILS

SHEET ID
A-601

Plot Date: 5/26/2026 10:52:26 AM File Path: C:\Users\jdeslauriers\OneDrive - US Army Corps of Engineers\Documents\GR00118_UBRO_AI_jdeslauriers.rvt

BACKCHECK



C2 FURNITURE PLAN
1/4" = 1'-0"

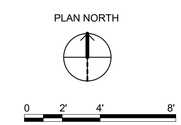
LEGEND	
- - - - - - -	RENOVATION AREA

FF&E SCHEDULE (CF/CI)	
ITEM CODE	ITEM DESCRIPTION
S1	TASK CHAIR
S3	GUEST CHAIR
T2	TABLE 36" X 60"
W1	WORKSTATION 8' X 11'
W2	WORKSTATION, 6' X 7'
W2A	WORKSTATION, 6' X 7' W/ BACK PANEL

FF&E SCHEDULE (GF/GI)	
ITEM CODE	ITEM DESCRIPTION
EX3	DRAWING DRAWER 47" X 36" X 82"
EX4	PRINTER/COPIER

GENERAL NOTES:

1. SEE SPECIFICATION 12 50 00.13 10 FURNITURE AND FURNITURE INSTALLATION AND SPECIFICATION 12 59 00 SYSTEMS FURNITURE FOR MORE INFORMATION ABOUT FURNITURE REQUIREMENTS.
2. CONTRACTOR FURNISHED/CONTRACTOR INSTALLED (CF/CI) FF&E ITEMS ARE INCLUDED IN THE CONTRACT.
3. GOVERNMENT FURNISHED/GOVERNMENT INSTALLED (GF/GI) ITEMS ARE NOT IN CONTRACT AND SHOWN FOR COORDINATION ONLY.
4. EX3 ARE EXISTING DRAWING DRAWERS THAT WILL BE MOVED BY THE CONTRACTOR TO ENABLE REMOVAL OF CARPET AND ABATEMENT OF ASBESTOS TILE UNDERNEATH. CONTRACTOR TO MOVE EX3 BACK INTO PLACE AFTER NEW ROOM FINISHES ARE INSTALLED.



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MARK	DESCRIPTION	DATE

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DRAWN BY: K. BROWNFIELD
CHECKED BY: A. PARKER
SUBMITTED BY: A. PARKER
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ISSUE DATE: MAY 2026
SOLICITATION NO.: W912BF26QA001
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1616 CAPITOL AVE.
OMAHA, NE 68102

GARRISON DAM, NORTH DAKOTA
UPPER BASIN RESIDENT OFFICE UPGRADES

FURNITURE PLAN

SHEET ID
I-101

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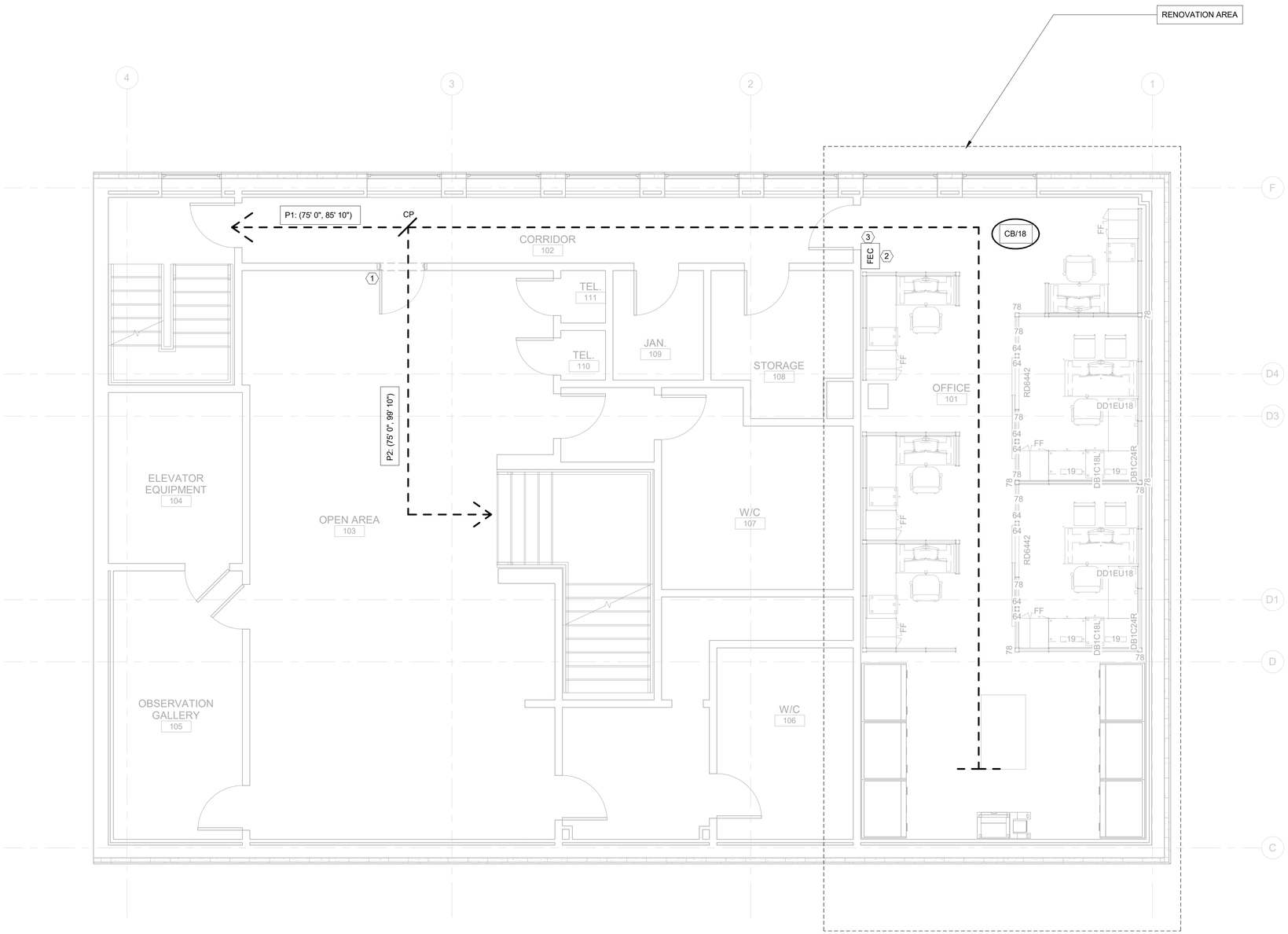

C6 LIFE SAFETY PLAN

1/4" = 1'-0"

0 2' 4' 8'

PLAN NORTH

GENERAL NOTES:

1. THIS SHEET ONLY PRESENTS LIFE SAFETY PLAN, EGRESS ROUTES AND ASSOCIATED FIRE EXTINGUISHER IN THE AREA SUBJECT TO RENOVATION UNDER THIS CONTRACT. NOTE CORRIDOR IS INCLUDED AS PART OF THIS CONTRACT.
2. CONTRACTOR (KTR) SHALL FIELD VERIFY ACTUAL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
3. ALL DOORS LOCATED ALONG THE PATH OF EGRESS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL AND SHALL NOT OBSTRUCT OR IMPEDE OCCUPANT MOVEMENT DURING EVACUATION, IN ACCORDANCE WITH NFPA 101 AND APPLICABLE BUILDING CODES.
4. THIS FACILITY IS NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.
5. QUALIFIED FIRE PROTECTION ENGINEER (QFPE) EXEMPTION WAS APPROVED ON JUNE 5, 2025 BY AHJ PER UFC 3-600-01.
6. PROVIDE A NEW FIRE EXTINGUISHER CABINET AS SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH UFC AND NFPA REQUIREMENTS.
7. PATH 1 (P1) REFERS TO THE EGRESS ROUTE THROUGH THE CORRIDOR AND DOWN THE WEST STAIRCASE. PATH 2 (P2) REFERS TO THE EGRESS ROUTE THROUGH THE OPEN AREA AND DOWN THE CENTER STAIRCASE.
8. RENOVATED ROOM IS CLASSIFIED AS A CONCENTRATED BUSINESS OCCUPANCY WITH AN OCCUPANT LOAD FACTOR OF 50 SQ FT PER PERSON, IN ACCORDANCE WITH NFPA 101.

SHEET KEYNOTES:

1. ENSURE THIS DOOR OPENS AND SWINGS INTO THE OPEN AREA (AS SHOWN)
2. PROVIDE ONE NEW 10 LB ABC-TYPE FIRE EXTINGUISHER WITH A MINIMUM 2-A:10-B:C RATING IN A SURFACE-MOUNTED FIRE EXTINGUISHER CABINET. PROVIDE A NEW SURFACE-MOUNTED FIRE EXTINGUISHER CABINET.
3. PROVIDE A PERMANENTLY MOUNTED PLAQUE OR SIGN INSIDE THE ROOM INDICATING MAXIMUM OCCUPANT LOAD OF 18 PERSONS. SIGN SHALL BE LEGIBLE, DURABLE, AND POSITIONED NEAR THE MAIN ENTRANCE TO THE ROOM AT A VISIBLE LOCATION.

LEGEND:

FEC	FIRE EXTINGUISHER CABINET
X/XX	X= OCCUPANCY XX= NUMBER OF OCCUPANTS CB= CONCENTRATED BUSINESS OCCUPANCY
CP/TD	EGRESS PATH CP= COMMON PATH DISTANCE TD= TOTAL TRAVEL DISTANCE P1 = PATH 1 P2 = PATH 2

TRAVEL DISTANCES AND EGRESS CAPACITY - NFPA 101 LIFE SAFETY CODE

THE BUILDING IS NOT PROTECTED BY A SPRINKLER SYSTEM.

BUSINESS REQUIREMENTS:

- COMMON PATH OF TRAVEL 75 FEET OR LESS
- GENERAL TRAVEL DISTANCE 200 FEET OR LESS

COMMON PATH OF TRAVEL IS 75 FEET. TOTAL TRAVEL DISTANCE TO EXITS IS 85'-10" (PATH 1) AND 99'-10" (PATH 2). THE RENOVATED AREA COMPLIES WITH NFPA 101 AND UFC 3-600-01 REQUIREMENTS FOR NON-SPRINKLERED BUSINESS OCCUPANCY.

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MARK	DESCRIPTION	DATE

ISSUE DATE: MAY 2026
SOLICITATION NO.: W912BF26QA001
CONTRACT NO.:

DESIGNED BY: M. BEKHET
DRAWN BY: M. BEKHET
CHECKED BY: B. PARKERSON
SUBMITTED BY: T. WEEDER
SIZE: ANSI D
FILE NAME: GR00118_UBRO_MEP.rvt

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1616 CAPITOL AVE.
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LIFE SAFETY PLAN

SHEET ID
F-101

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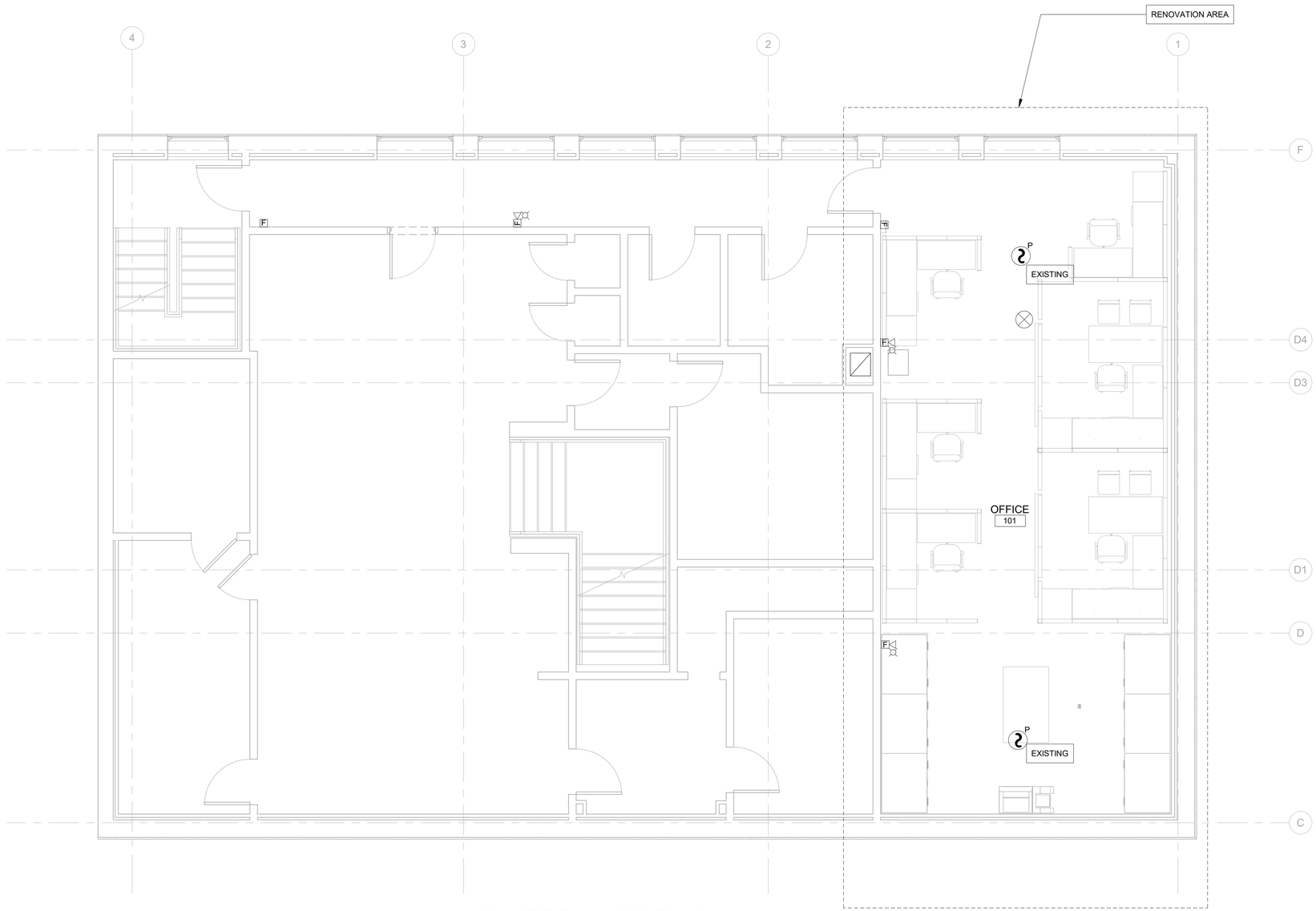

C6 FIRE ALARM PLAN

1/4" = 1'-0"

0 2' 4' 8' 12'

PLAN NORTH

SUPPLEMENTAL FIRE ALARM LEGEND

SMOKE DETECTOR. THE LETTER "I" OR "P", IF PRESENT, STIPULATES IONIZATION OR PHOTOELECTRIC TYPE. "U" STIPULATES UNDER RAISED ACCESS FLOOR. "D" STIPULATES A DUCT TYPE SMOKE DETECTOR. WHERE DUCT DETECTORS ARE SHOWN IN PAIRS, LOCATIONS ARE IN SUPPLY AND RETURN DUCTS. A SINGLE DETECTOR WOULD BE INSTALLED IN THE SUPPLY DUCT IF THE LOCATION IS NOT OTHERWISE INDICATED.

FIRE ALARM HORN AND STROBE. MATCH EXISTING THROUGHOUT POWERHOUSE.

FIRE ALARM PULL STATION.

GENERAL NOTES - FIRE ALARM SHEETS	
1	PROVIDE BACKBOX AT EACH INITIATING/DETECTION AND BELL LOCATION.
2	FINAL DEVICE LOCATIONS SHALL BE COORDINATED PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH ELEMENTS FROM OTHER TRADES.
3	UNLESS OTHERWISE NOTED, ALL NON-DUCT SMOKE DETECTORS ARE MOUNTED AT FINISHED CEILING.
4	FOR CONFLICTS BETWEEN THE SPECIFICATION AND THE DRAWINGS, FOLLOW THE SPECIFICATION. WHERE THE DRAWINGS EXCEED REQUIREMENTS OF THE SPECIFICATION, FOLLOW THE DRAWINGS.
5	ALL FIRE ALARM AND SIGNALING DEVICES MUST BE ADDRESSABLE DEVICES THAT INTEGRATE WITH THE EXISTING KIDDE-FENWAL FN6000 PANEL.
6	CONNECTIONS AND SPLICES SHALL BE MADE USING TERMINAL BOXES.
7	MOUNTING OF DEVICES SHALL COMPLY WITH NFPA AND ABA REQUIREMENTS UNLESS OTHEREWISE NOTED.
8	JUNCTION BOXES, BACKBOXES, AND CONDUITS SHALL BE SURFACE MOUNTED ON PRECAST, CONCRETE, AND CONCRETE BLOCK WALLS AND STEEL MEMBERS. JUNCTION BOXES, BACKBOXES, AND CONDUITS SHALL BE RECESS MOUNTED ON GYPSUM WALLS. COORDINATE WITH ARCHITECTURAL SHEETS.
9	WHERE SHOWN, DIMENSIONS ON FIRE ALARM DRAWINGS ARE PRELIMINARY FOR PLANNING AND BIDDING PURPOSES. CONTRACTOR IS RESPONSIBLE FOR FINAL LOCATIONS, QUANTITIES, AND SPACING TO SATISFY APPLICABLE CODES, STANDARDS, UFCs, AND OTHER REQUIREMENTS IDENTIFIED IN THE SPECIFICATIONS.
10	COORDINATE RECESS MOUNTING OF CONDUIT, BACKBOXES, DEVICES, AND EQUIPMENT WITH OTHER TRADES.

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MARK	DESCRIPTION	DATE

DESIGNED BY: B. WLASCHIN	ISSUE DATE: MAY 2026
DRAWN BY: B. WLASCHIN	SOLICITATION NO.: W912BF26QA001
CHECKED BY: C. LINDGREN	CONTRACT NO.:
SUBMITTED BY: S. LINDGREN	
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OMAHA DISTRICT
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FIRE ALARM PLAN

SHEET ID

FA101

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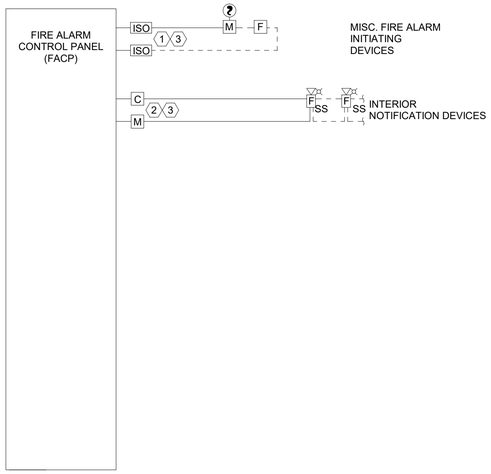

J1 FIRE ALARM RISER DIAGRAM

N.T.S.

(#) KEYNOTES

1. CONNECT NEW DETECTORS ON EXISTING DETECTOR CIRCUITRY.

2. CONNECT NEW VISUAL NOTIFICATION DEVICES ON THE EXISTING INTERIOR NOTIFICATION APPLIANCE CIRCUITRY.

3. MAXIMUM NUMBER OF NOTIFICATION AND INITIATING DEVICES PER CIRCUIT SHALL BE IN ACCORDANCE WITH THE CONTROL PANEL LIMITATIONS. CONDUCTOR INTEGRITY MONITORING IS REQUIRED. PROVIDE NEW CIRCUITRY ROUTED BACK TO THE FACP IF EXISTING CIRCUIT DOES NOT HAVE CAPACITY TO SUPPORT ADDITIONAL NOTIFICATION OR INITIATING DEVICES.

GENERAL NOTES

1. RISER IS A DIAGRAMMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM AND IS NOT CONSIDERED COMPLETE. INCOMPLETENESS IS SHOWN FOR CLARITY. SEE FIRE ALARM PLANS FOR LOCATIONS OF INITIATING DEVICES AND NOTIFICATION APPLIANCES. PROVIDE DEVICES FOR A COMPLETE FUNCTIONAL SYSTEM NOT LIMITED TO ADDRESSABLE MONITOR MODULES FOR ALL DEVICES THAT DO NOT HAVE ADDRESS AND CONTROL MODULES TO CONTROL AUXILIARY FUNCTIONS.

2. REFER TO FIRE ALARM FLOOR PLANS AND SPECIFICATIONS FOR PRELIMINARY QUANTITY AND LOCATIONS OF INDICATION AND NOTIFICATION DEVICES.

3. REFER TO THE FIRE ALARM SPECIFICATIONS FOR ADDITIONAL INTERFACE REQUIREMENTS FOR THE FIRE ALARM SYSTEM.

4. ALL FIRE ALARM AND SIGNALING DEVICES MUST BE ADDRESSABLE DEVICES THAT INTEGRATE WITH THE EXISTING KIDDE-FENWAL FN6000 PANEL.

EXISTING CIRCUITRY ————————————

NEW CIRCUITRY — — — — — — —

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MARK	DESCRIPTION	DATE

DESIGNED BY: B. WLASCHIN	ISSUE DATE: MAY 2026
DRAWN BY: B. WLASCHIN	SOLICITATION NO.: W912BF26QA001
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SUBMITTED BY: S. LINDGREN	
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OMAHA DISTRICT
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FIRE ALARM DETAILS AND RISER

SHEET ID

FA501

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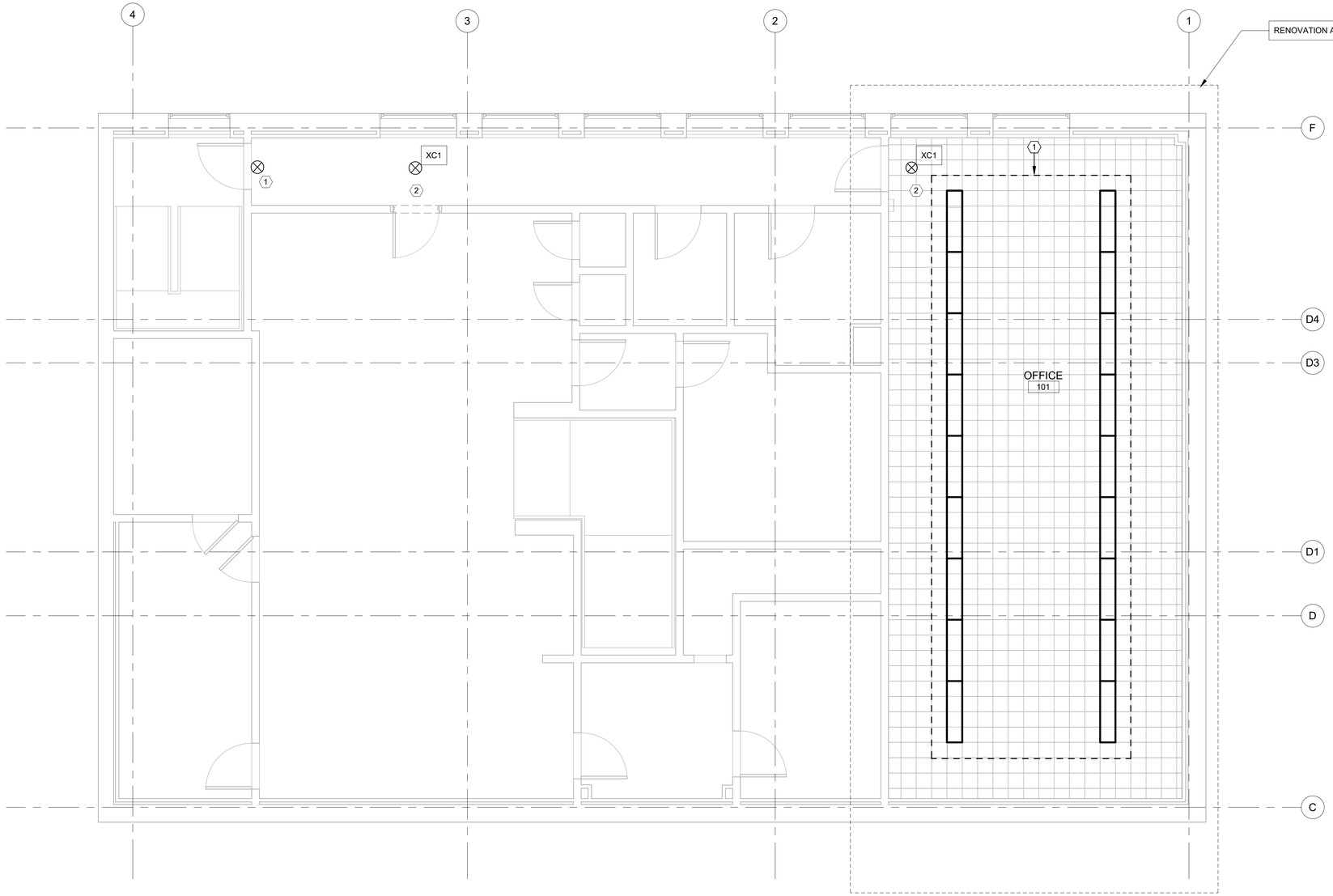

C8 LIGHTING PLAN
1/4" = 1'-0"

0 2' 4' 8'

TYPE XC1

NOTE: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST ALUMINUM OR HIGH-IMPACT, UV-STABILIZED, INJECTION-MOLDED THERMOPLASTIC.
2. FINISH - TEXTURED POWDER COAT FINISH OPTIONS INCLUDE WHITE, BLACK, WHITE WITH BRUSHED ALUMINUM, BLACK WITH BRUSHED ALUMINUM.
3. LIGHT SOURCE - SOLID STATE LEDS.
4. LETTERS/CHEVRONS - MINIMUM 6" HIGH WITH 3/4" STROKE. RED OR GREEN LETTERS AS INDICATED. PROVIDE CHEVRONS AS INDICATED IN EITHER LEFT, RIGHT OR BOTH DIRECTIONS.
5. DRIVER - INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD.
6. CERTIFICATION - NFPA 101, UL LISTED FOR DAMP OR WET LOCATION, AND ROHS COMPLIANT.
7. MOUNTING - UNIVERSAL MOUNTING KIT FOR CEILING, WALL OR END-OF-FIXTURE MOUNTING AS INDICATED IN THE FIXTURE SCHEDULE.
8. EMERGENCY BATTERY - SOLID STATE, CONSTANT CURRENT TYPE BATTERY CHARGER WITH MAINTENANCE FREE, NICKEL-CADMIUM BATTERY, AC-ON INDICATOR LAMP AND TEST SWITCH.

EXIT SIGN

REVISED:	NOVEMBER 2020	LIGHTING PLATE:	NL-28NWO

GENERAL NOTES - LIGHTING SHEET

1	RACEWAYS SHALL HAVE A SEPARATE EQUIPMENT GROUNDING/BONDING CONDUCTOR. RACEWAY SHALL NOT BE USED AS THE SOLE GROUNDING/BONDING PATH.
2	WIRELESS CONTROLS SHALL NOT BE USED.
3	PENETRATION OPENINGS THROUGH AIR BARRIERS SHALL COMPLY WITH THE BUILDING AIR BARRIER REQUIREMENTS. CORRECT ALL PENETRATIONS THAT ARE DETERMINED DEFICIENT DURING TESTING. SEE ARCHITECTURE SHEETS FOR AIR BARRIER TESTING BOUNDARIES. SEE ARCHITECTURE FOR SEALING PENETRATIONS.
4	EMERGENCY BALLASTS, DRIVERS, AND INVERTERS SHALL BE WIRED TO UNSWITCHED CONDUCTORS (WIRED AHEAD OF ANY LOCAL SWITCHING).
5	COORDINATE RECESS MOUNTING OF CONDUIT, BACKBOXES, DEVICES, AND EQUIPMENT WITH OTHER TRADES.
6	DO NOT PENETRATE STRUCTURAL COLUMNS, BEAMS, AND TRUSSES. AFIX DEVICES AND RACEWAY WITH BEAM C-CLAMPS, BRACKETS, CLIPS, UNISTRUT, AND OTHER NON-PENETRATING AND NON-ADHESIVE HARDWARE.
7	CIRCUIT EXIT SIGNS TO NEAREST LIGHTING CIRCUIT (UNLESS OTHERWISE INDICATED) USING UNSWITCHED PHASE LEG.
8	CONDUIT AND CONDUCTOR SIZES LISTED ARE MINIMUM SIZES. CIRCUITS MAY BE COMBINED INTO COMMON CONDUIT. CONTRACTOR IS RESPONSIBLE FOR RESIZING CONDUITS PER NFPA 70 FILL RATIO AND CURRENT-CARRYING CONDUCTOR/TEMPERATURE DERATING REQUIREMENTS.
9	EACH LIGHTING BRANCH CIRCUIT HOME RUN SHALL CONSIST OF MINIMUM 2-#12, #12G CONDUCTORS IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. ENTIRE CIRCUIT SHALL BE SAME SIZE AS HOME RUN SIZE INDICATED UNLESS OTHERWISE NOTED.
10	JUNCTION BOXES, DEVICES, BACKBOXES, ASSOCIATED CONDUIT, ETC., LOCATED ON STEEL MEMBERS, PRECAST CONCRETE, CONCRETE, AND CONCRETE BLOCK WALLS SHALL BE SURFACE MOUNTED. JUNCTION BOXES, DEVICES, BACKBOXES, ASSOCIATED CONDUIT, ETC., SHALL BE RECESS MOUNTED ON GYPSUM WALLS. COORDINATE WITH ARCHITECTURAL SHEETS.
11	LINE VOLTAGE AND LOW VOLTAGE WIRING SHALL BE PROVIDED IN SEPARATE CONDUITS/RACEWAYS.

KEYNOTES - LIGHTING SHEET

1	REMOVE ANY DEFECTIVE OR BROKEN LAMPS IN EXISTING FIXTURES AND REPLACE WITH NEW LAMPS WITH IDENTICAL CHARACTERISTICS OF WATTAGE, LUMEN OUTPUT, CORRELATED COLOR TEMPERATURE (CCT), COLOR RENDERING INDEX (CRI), SIZE AND UL LISTINGS.
2	CIRCUIT EXIT SIGNS TO NEAREST LIGHTING CIRCUIT (UNLESS OTHERWISE INDICATED) USING UNSWITCHED PHASE LEG.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: T. WILKINS	ISSUE DATE: MAY 2026
DRAWN BY: T. WILKINS	SOLICITATION NO.: W912BF26QA001
CHECKED BY: S. LINDGREN	CONTRACT NO.:
SUBMITTED BY: S. LINDGREN	
SIZE: ANSI D	FILE NAME: GR00118_UBRO_MEP.rvt

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
1616 CAPITOL AVE.
OMAHA, NE 68102

GARRISON DAM, NORTH DAKOTA
UPPER BASIN RESIDENT OFFICE UPGRADES

LIGHTING PLAN

SHEET ID
EL101

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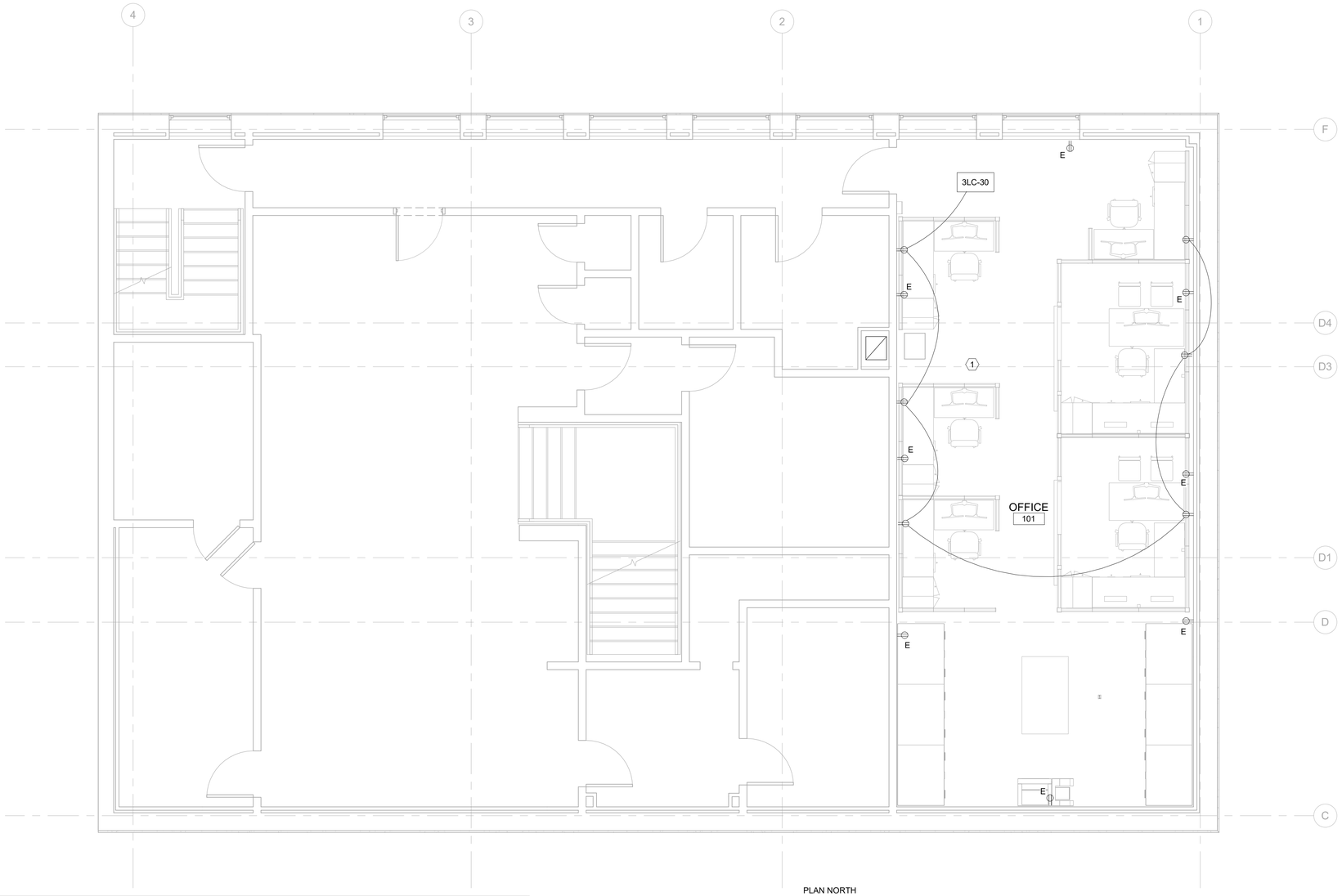

GENERAL NOTES - EP100 THROUGH EP600 SHEETS	
1	ALL WIRING SHALL COMPLY WITH NFPA 70-2023, NATIONAL ELECTRICAL CODE.
2	LABEL NEW RECEPTACLES AS INDICATED IN DETAIL 2/EP501.
3	INFORMATION ON PANEL SCHEDULES IS PROVIDED "FOR INFORMATION ONLY," UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING CONDITIONS OF PANELS.
4	FINAL RECEPTACLE LOCATIONS SHALL BE COORDINATED PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH ELEMENTS FROM OTHER TRADES AND EXISTING CONDITIONS.
5	FINAL CONDUIT LOCATIONS SHALL BE COORDINATED PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH ELEMENTS FROM OTHER TRADES AND EXISTING CONDITIONS.

KEYNOTES - EP100 THROUGH EP400 SHEETS	
1	RUN CIRCUIT TO AVAILABLE SPARE ON PANEL 3LC

0 2' 4' 8' 12'

PLAN NORTH

C8 POWER PLAN
1/4" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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DRAWN BY: B. WLASCHIN
CHECKED BY: S. LINDGREN
SUBMITTED BY: S. LINDGREN
SIZE: ANSI D
FILE NAME: GR00118_UBRO_MEP.rvt
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POWER PLAN

SHEET ID
EP101

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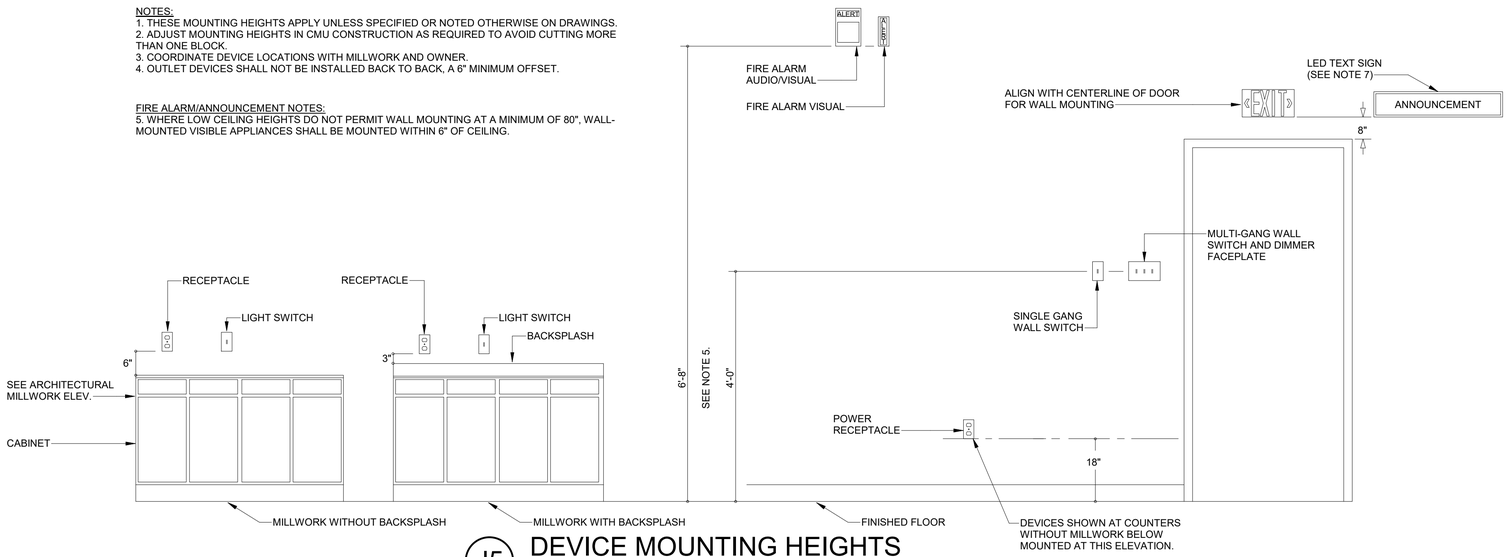
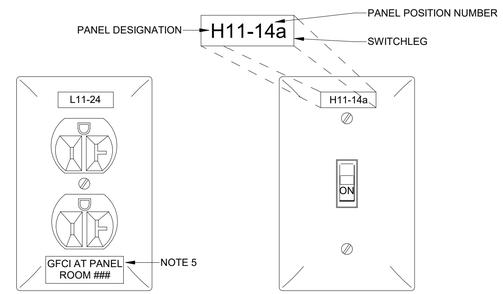
NOTES:
1. THESE MOUNTING HEIGHTS APPLY UNLESS SPECIFIED OR NOTED OTHERWISE ON DRAWINGS.
2. ADJUST MOUNTING HEIGHTS IN CMU CONSTRUCTION AS REQUIRED TO AVOID CUTTING MORE THAN ONE BLOCK.
3. COORDINATE DEVICE LOCATIONS WITH MILLWORK AND OWNER.
4. OUTLET DEVICES SHALL NOT BE INSTALLED BACK TO BACK, A 6" MINIMUM OFFSET.

FIRE ALARM/ANNOUNCEMENT NOTES:
5. WHERE LOW CEILING HEIGHTS DO NOT PERMIT WALL MOUNTING AT A MINIMUM OF 80", WALL-MOUNTED VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF CEILING.



J5 DEVICE MOUNTING HEIGHTS
N.T.S.



ELECTRICAL RECEPTACLE

LIGHT SWITCH

COVER LABELS
ALL COVERS SHALL BE PROVIDE WITH AN IDENTIFIER. THE POWER DEVICE COVER LABELING MUST BE DONE IAW THE FOLLOWING GUIDELINES:

1. RECEPTACLES AND SWITCHES SHALL BE IDENTIFIED WITH THE PANEL AND POSITION OF THE CIRCUIT BREAKER USED TO SHUT OFF POWER TO THE DEVICE.

2. OUTLET BOXES USED FOR CIRCUIT EXTENSION TO SYSTEMS FURNITURE SHALL HAVE ALL CIRCUITS WITHIN THE BOX LISTED ON THE COVER.

3. SWITCHES, OCCUPANCY SENSORS, AND DAYLIGHTING CONTROLS, IN COMMON SPACES HAVING DEVICES ON DIFFERENT SWITCHLEGS, INCLUDE THE SWITCHLEG DESIGNATION.

4. WHERE ITEM 3 APPLIES: OCCUPANCY SENSORS AND DAYLIGHTING CONTROL DEVICES SHALL HAVE A LABEL PLACED ON THE ADJACENT CEILING OR ON THE EXPOSED BOX WHEN NOT PLACED IN A CEILING.

5. WHERE A DEVICE/RECEPTACLE IS PROTECTED BY A GFCI OR AFCI CIRCUIT BREAKER OR BLANK FACE DEVICE, PROVIDE LABEL INDICATING SUCH AT THE FACEPLATE.

6. WHERE RECEPTACLES ARE MOUNTED WITH THE YOKES VERTICAL, THE GROUND SHALL BE UP.

7. WHERE RECEPTACLES ARE MOUNTED WITH THE YOKES HORIZONTAL, THE NEUTRAL SHALL BE UP.

DEVICE AND OUTLET LABELS
N.T.S.

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MARK	DESCRIPTION	DATE

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ELECTRICAL DETAILS

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SUPPLEMENTAL TELECOM LEGEND

- (J) JUNCTION BOX, CEILING MOUNTED.
- (J)H JUNCTION BOX, WALL MOUNTED.
- [J] JUNCTION BOX, RECESSED FLOOR MOUNTED.
- DUPLEX TELEPHONE AND DATA, 8 POSITION, CATEGORY 6 JACK.
- SINGLE WALL-MOUNT DATA OUTLET UNLESS INDICATED BY NUMBER.
- FLOOR MOUNT TELEPHONE AND DATA, 8 POSITION, CATEGORY 6 JACK, ONE VOICE AND ONE DATA UNLESS INDICATED BY NUMBER.
- SINGLE FLOOR-MOUNT DATA OUTLET UNLESS INDICATED BY NUMBER. ALL COMMUNICATIONS FLOOR BOXES SHALL BE COMBINED WITH POWER FLOOR BOX. SEE EP SERIES SHEETS FOR COORDINATING LOCATIONS.
- W WALL MOUNT OUTLET WITH TELEPHONE LUGS.
- RED W RED WALL MOUNT OUTLET WITH TELEPHONE LUGS FOR A HOTLINE ON THE SECONDARY CRASH PHONE NETWORK (SCN). SEE TN200 FOR PATCH PANEL LANDING LOCATION.
- (TV)H CABLE TV "F" TYPE COAX OUTLET.
- (AV)## DISPLAY CEILING MOUNTED OUTLET (SEE TN510 AND TN520 SHEET SERIES FOR DETAILS). COORDINATE WITH POWER RECEPTACLE. "##" INDICATORS ARE AS FOLLOWS:
  - DI: DISPLAY PLUS AUDIO INPUT
  - DO: DISPLAY PLUS AUDIO OUTPUT
  - AI: AUDIO-ONLY INPUT
- [AV]## DISPLAY FLOOR MOUNTED OUTLET (SEE TN530 SHEET SERIES FOR DETAILS). PROVIDE IN SEPARATE FLOOR BOX FROM POWER AND/OR COMMUNICATIONS FLOOR BOX(ES). SEE CEILING AV LEGEND ENTRY FOR "##" DESIGNATIONS.
- (AV)H## DISPLAY WALL MOUNTED OUTLET. MOUNTING HEIGHT SHALL BE IDENTICAL TO TYPICAL POWER AND COMMUNICATIONS OUTLETS (SEE TN530 SHEET SERIES FOR DETAILS). COORDINATE WITH POWER RECEPTACLE. LOCATE INPUTS AND OUTPUTS AT THE SAME ELEVATIONS AS WALL RECEPTACLES AND TV COAXIAL OUTLETS, RESPECTIVELY, FOR A GIVEN APPLICATION. SEE CEILING AV LEGEND ENTRY FOR "##" DESIGNATIONS.
- [V] LOCAL VOLUME CONTROL FOR AUDIO-VIDEO SYSTEM SPEAKERS. COORDINATE WITH FIRE ALARM SYSTEM TO AUTOMATICALLY MUTE/DISENGAGE SPEAKERS WHEN FIRE ALARM IS IN ALARM STATE AND/OR MESSAGE IS BROADCAST OVER FA/MNS SPEAKER SYSTEM. SPEAKERS SHALL UNMUTE/DISENGAGE WHEN FA SYSTEM IS RESET OR SILENCED, AND WHEN THE BROADCAST MESSAGE HAS CONCLUDED.
- [S] AUDIO SELECTOR SWITCH. IF POWER REQUIRED, SUPPLY FROM SAME CIRCUIT AS VOLUME CONTROL/AMPLIFIER.
- AV(S) AUDIO-VIDEO SYSTEM SPEAKER, CEILING MOUNTED.
- AV(S)H AUDIO-VIDEO SYSTEM SPEAKER, WALL MOUNTED.
- LADDER-TYPE CABLE TRAY.
- WELDED WIRE BASKET-TYPE CABLE TRAY.
- CONDUIT DOWN
- CONDUIT UP
- THROUGH-WALL CONDUITS. LOCATE AT ELEVATION SUCH THAT BOTTOM OF CONDUIT IS NO MORE THAN 1" HIGHER AND NO LESS THAN AT SAME ELEVATION AS BOTTOM OF CABLE TRAYS. FILL CONDUITS WITH FIRE STOPPING MATERIAL AT ALL LOCATIONS.
  - (#) — CONDUIT QUANTITY
  - #Ø — NOMINAL CONDUIT DIAMETER
- "AC" OUTLET BOX IS TO BE LOCATED ABOVE COUNTERTOP. SEE EP501 FOR MOUNTING HEIGHT.
- "DI" DENOTES A/V DISPLAY INPUT.
- "DO" DENOTES A/V DISPLAY OUTPUT.
- "IDS" DENOTES INTRUSION DETECTION SYSTEM.
- "WP" DENOTES UL LISTED FOR WET LOCATION AND WHILE-IN-USE COVER.
- "WAP" DENOTES WIRELESS ACCESS POINT. WHERE LOCATED WITH A NEMA 4 ROUTER ENCLOSURE, LOCATE RECEPTACLE INSIDE THE ENCLOSURE AND WITHOUT THE EXTRA DUTY WHILE-IN-USE COVER.
- +12" DENOTES MOUNTING HEIGHT ABOVE FINISHED FLOOR MEASURED TO CENTER (OR ABOVE FINISHED GRADE AS APPLICABLE FOR EXTERIOR LOCATIONS). IF NO MOUNTING HEIGHT IS INDICATED ON PLANS (EITHER BY THIS NOTE OR BY KEYED NOTE), MOUNTING HEIGHT SHALL BE AS SHOWN ON EP500.
- TE COMMUNICATIONS CABINET. SEE DETAIL 3/TN521.
- DH TE "DHTE" (SEE SECTION 27 10 00). MINIMUM 24U DOUBLE-HINGED NEMA TYPE 4 (IP66) COMMUNICATIONS CABINET WITH ATTACHED/INTEGRAL AIR CONDITIONING UNIT.

CABLE TRAY ANNOTATION

- 108-A-1 — SEGMENT IDENTIFIER (IF PRESENT)
- 2"x6" — TRAY SIZE: DEPTH x WIDTH
- 10' - 0" — BOTTOM ELEVATION A.F.F.

108-A-1,2"x6",10' - 0"

- BOTTOM ELEVATION A.F.F.
- TRAY SIZE: DEPTH x WIDTH
- SEGMENT IDENTIFIER (IF PRESENT)

CABLE TRAY NOTES:

1. SIZE AND ELEVATION CHANGE ONLY WHEN NOTED. IF SIZE OR BOTTOM ELEVATION ARE OMITTED FROM A SEGMENT, ASSUME SEGMENT IS TO BE OF THE SAME SIZE AND AT THE ELEVATION AS THE ADJOINING SEGMENT NEARER TO THE SOURCE TELECOM ROOM OR CLOSET.

2. CABLE TRAY FITTING AND REDUCER SIZES ARE OMITTED FROM PLANS AND SHALL BE DERIVED ADJACENT SEGMENTS.

3. SIZES LISTED ARE MINIMUMS. COORDINATED INCREASE IN SIZE WITH NEARBY EQUIPMENT, DUCTBANKS, LIGHTING FIXTURES, ETC.

4. DEPTHS LISTED FOR LADDER TYPE CABLE TRAY ARE LOAD DEPTHS.

GENERAL NOTES - TN100 THROUGH TN400 SHEETS

1	DURING SYSTEMS FURNITURE INSTALLATION, BUILDING CONTRACTOR SHALL ROUTE CABLE THROUGH SYSTEMS FURNITURE AND TERMINATE CONNECTIONS CABLE. BUILDING CONTRACTOR SHALL COORDINATE WITH SYSTEMS FURNITURE INSTALLER, AND PROVIDE COORDINATED FACEPLATES AND COMMUNICATIONS OUTLETS. BUILDING CONTRACTOR SHALL RETURN TO COMPLETE CABLE INSTALLATION DURING FURNITURE INSTALLATION.
2	THE MAXIMUM NUMBER OF CAT6 CABLES PER TELECOM CONDUIT SHALL BE SIZED AS FOLLOWS: 1" C: 3 CABLES 1 1/4" C:5 CABLES 1 1/2" C:8 CABLES 2" C:14 CABLES 2 1/2" C:22 CABLES 3" C:32 CABLES 3 1/2" C:43 CABLES 4" C:56 CABLES
3	REFER TO SHEET TN500 FOR COMMUNICATIONS LETTER DESIGNATIONS AND JACK AND CABLE COLOR.
4	CABLES SHALL BE SECURED WITH VELCRO TYPE CABLE RETAINERS. NO RATCHET-TYPE CABLE (ZIP) TIES SHALL BE USED.
5	FIRE SEAL PENETRATIONS AFTER CABLE INSTALLATION FOR CONDUIT PENETRATIONS THROUGH AIR BARRIERS AND FIRE WALLS.
6	JUNCTION BOXES, BACKBOXES, AND CONDUITS SHALL BE SURFACE MOUNTED ON PRECAST, CONCRETE, AND CONCRETE BLOCK WALLS AND STEEL MEMBERS. JUNCTION BOXES, BACKBOXES, AND CONDUITS SHALL BE RECESS MOUNTED ON GYPSUM WALLS. COORDINATE WITH ARCHITECTURAL SHEETS.
7	EACH PULL ROPE SHALL BE LABELED WITH A UNIQUE IDENTIFIER TAGGED ON EACH END. THE USER END OF THE PULL ROPE SHALL ALSO INDICATE THE SOURCE LOCATION AND VICE VERSA.
8	WHERE A CONDUIT SLEEVE IS SHOWN THROUGH A WALL BETWEEN TWO PORTIONS OF CABLE TRAY, COORDINATE HEIGHT OF SLEEVES HEIGHT WITH CABLE TRAY SUCH THAT THE SLEEVE IS SLIGHTLY ABOVE THE CABLE TRAY.
9	PROVIDE EQUIVALENT CONDUIT PATHWAYS WHERE CABLE TRAY IS INTERRUPTED BY WALLS OR NONACCESSIBLE CEILINGS.
10	DO NOT PENETRATE STRUCTURAL COLUMNS, BEAMS, AND TRUSSES. AFIX DEVICES AND RACEWAY WITH BEAM C-CLAMPS, BRACKETS, CLIPS, UNISTRUT, AND OTHER NON-PENETRATING AND NON-ADHESIVE HARDWARE.
11	COORDINATE TELECOMMUNICATIONS OUTLETS WITH POWER RECEPTACLES (EP DRAWING SERIES). SPACING SHALL BE NO GREATER THAN 6" CENTER TO CENTER PER UFC 3-580-01.
12	WHERE CABLE TRAY INFORMATION IS OMITTED FROM A SEGMENT, SIZE AND ELEVATION SHALL BE ASSUMED TO BE THE SAME AS THE ADJACENT CONNECTED SEGMENT WHICH IS CLOSER TO THE ORIGINATION TELECOM ROOM OR CABINET. PLEASE NOTE WHERE KEYED NOTES ARE USED FOR ELEVATIONS AND TRANSITIONS.
13	ALL CONDUITS SHALL BE PROVIDED WITH PULL STRING IN ADDITION TO CABLES.
14	COORDINATE RECESS MOUNTING OF CONDUIT, BACKBOXES, DEVICES, AND EQUIPMENT WITH OTHER TRADES.
15	ALL EXISTING TELECOMMUNICATIONS CABLING SHALL REMAIN IN PLACE AND RETAIN OPERABILITY.
16	ALL EXISTING TELECOMMUNICATIONS OUTLETS SHALL BE REPLACED WITH NEW RJ45 DATA JACK.

(#) KEYNOTES - TELECOMM SHEETS

1	TIE NEW TELECOMMUNICATIONS INTO EXISTING SYSTEM.
2	ALL EXISTING TELECOMMUNICATONS CABLING AND OUTLETS TO REMAIN IN PLACE AND RETAIN FUNCTIONALITY.

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MARK	DESCRIPTION	DATE

DESIGNED BY: T. WILKINS
DRAWN BY: T. WILKINS
REVIEWED BY: S. LINDGREN
SUBMITTED BY: S. LINDGREN
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TELECOMMUNICATIONS NOTES AND SUPPLEMENTAL LEGEND

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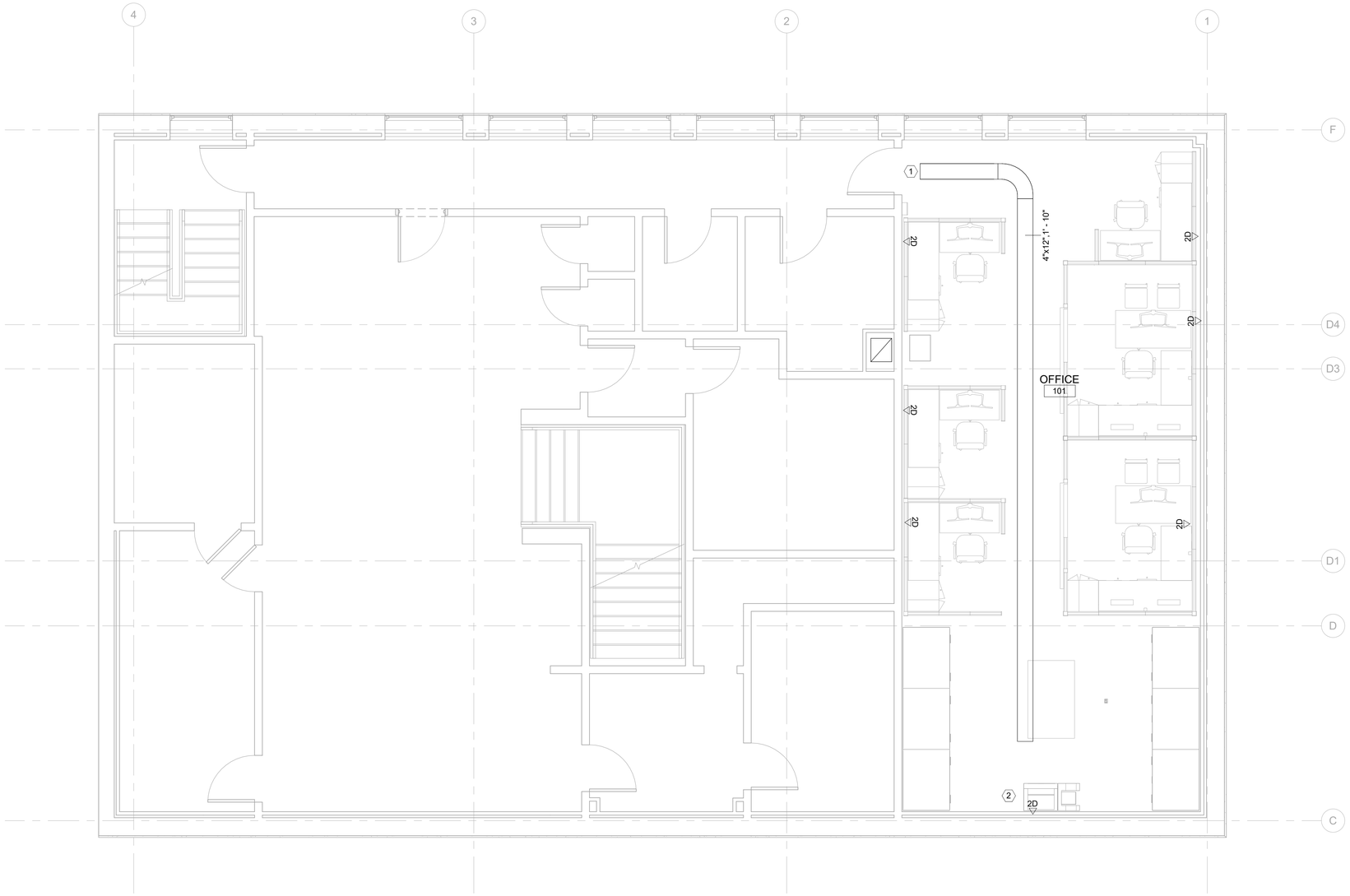

C7 TELECOMMUNICATIONS PLAN

1/4" = 1'-0"

0 2' 4' 8' 12'

PLAN NORTH

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MARK	DESCRIPTION	DATE

DESIGNED BY: T. WILKINS
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TELECOMMUNICATIONS PLAN

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COMMUNICATIONS OUTLET CONFIGURATIONS					
SYMBOL	LABEL	PORT A	PORT B	PORT C	PORT D	DETAIL (TN500)
▽	N/A	D				1
▽	U	U				1
▼	W	V				2
▼	WP W	V				2

NOTES:
1. SEE COLOR CODE SCHEDULE ON THIS SHEET FOR CABLE AND JACK COLORS.

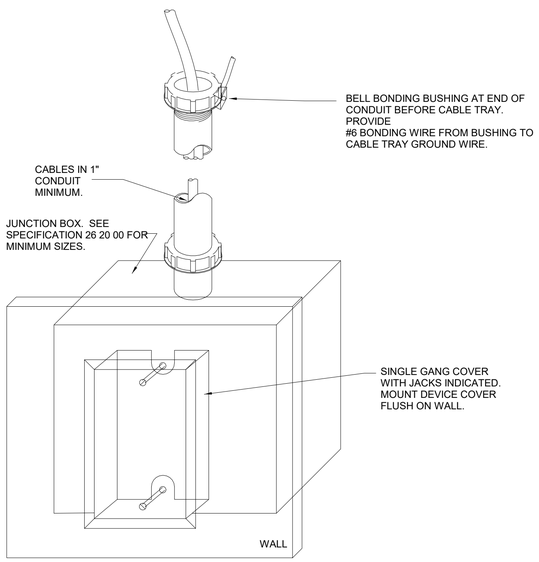
2. -- INDICATES BLANK PORT. FACEPLATES WITH AT LEAST ONE BLANK PORT SHALL BE PROVIDED WITH A PULL STRING TO THE CABLE TRAY.

COMMUNICATIONS COLOR CODE DESIGNATION SCHEDULE			
TYPE	LETTER	JACK	CABLE
DATA (NIPRNET)	D	BLUE	BLUE
VOICE	V	WHITE	WHITE
EMCS	E	GREEN	GREEN
SIPR	S	RED	RED

ALL COMM OUTLETS SHALL BE 8-PIN RJ-45 U.O.N.

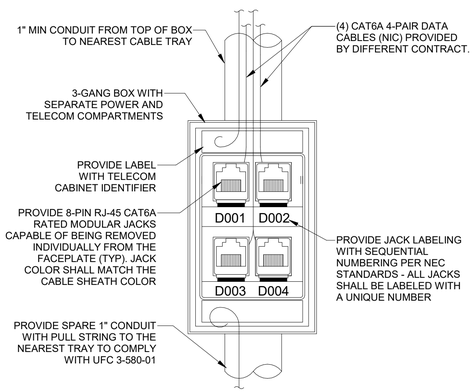
L1 TELECOMMUNICATIONS OUTLET CONFIGURATIONS

SCALE: NTS



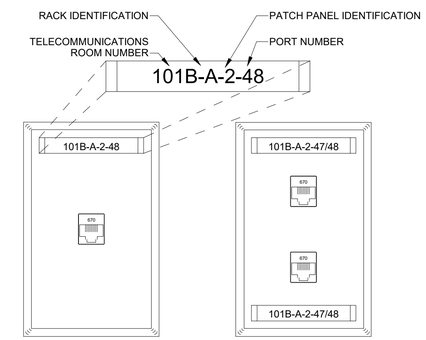
F1 TYPICAL DATA AND VOICE OUTLET MOUNTING DETAIL

SCALE: NTS



F8 TELECOMMUNICATIONS DATA OUTLET

SCALE: NTS



OUTLET/PATCH PANEL LABELS
THE TELECOMMUNICATIONS SYSTEM LABELING MUST BE DONE IAW THE FOLLOWING GUIDELINES. ALL OUTLETS AND PATCH PANEL POSITIONS MUST BE LABELED AS TO THEIR FUNCTION (I.E., VOICE, NIPRNET, ULLS-A, OR SIPRNET) AND WITH A UNIQUE IDENTIFIER CODE.

(1) VOICE AND DATA PORT: ON THE USER END, THE DATA PORT WILL BE LABELED IDENTIFYING THE TELECOM ROOM THE DROP IS BEING FED FROM, FOLLOWED BY THE RACK IDENTIFICATION IN THAT TELECOM ROOM. THE CABLE BEING TERMINATED ON A PATCH PANEL WILL BE IDENTIFIED WITH A NUMERICAL SEQUENCE OF THE AMOUNT OF PATCH PANELS, FOLLOWED BY THE PORT NUMBER ON THAT PATCH PANEL.

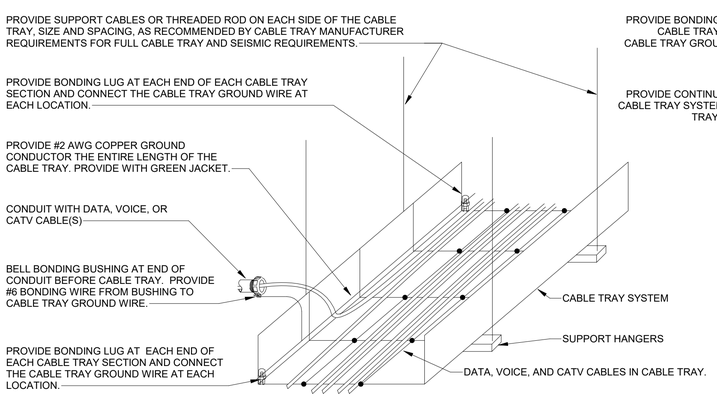
(2) EACH ROOM SHALL BE LABELED IN SEQUENCE BEGINNING WITH FIRST OUTLET FROM LEFT OF THE ROOM AND CLOCKWISE AROUND THE ROOM.

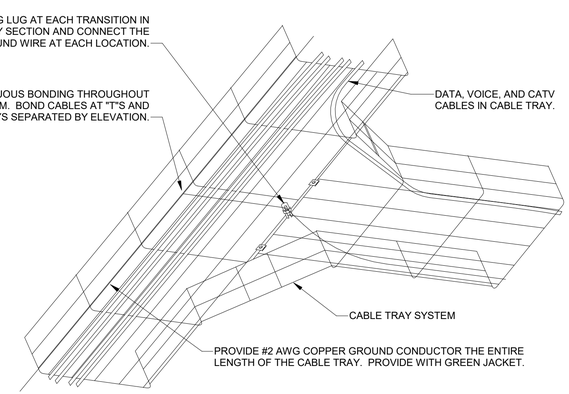
(3) PATCH PANELS SHALL BE IN ORDER OF ROOM NUMBER BEGINNING WITH LOWEST ROOM NUMBER.

THE REMOVAL OF THE DASHES BETWEEN THE FIRST THREE (3) DESIGNATORS ARE ALLOWED FOR MORE SPACE ON FACEPLATE AND PATCH PANEL "DESIGNATOR STRIPS". FOR EXAMPLE, "101BA2-48" IN PLACE OF "101B-A-2-48".

F15 OUTLET PANEL LABELS

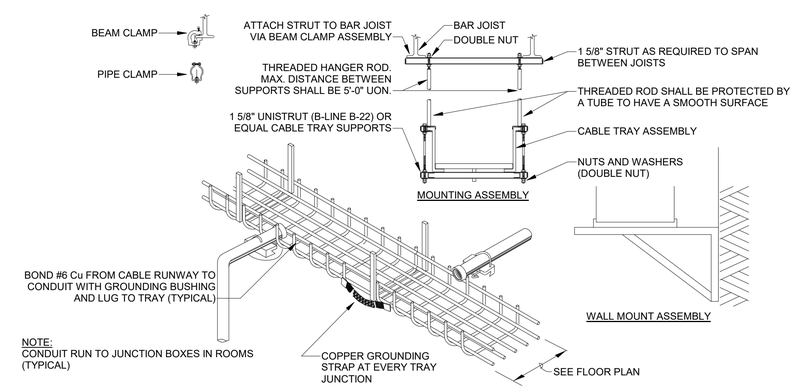
SCALE: NTS





A4 TYPICAL CABLE TRAY MOUNTING AND BONDING

SCALE: NTS



A14 TYPICAL CABLE RUNWAY TO CONDUIT TRANSITION DETAIL

SCALE: NTS

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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