

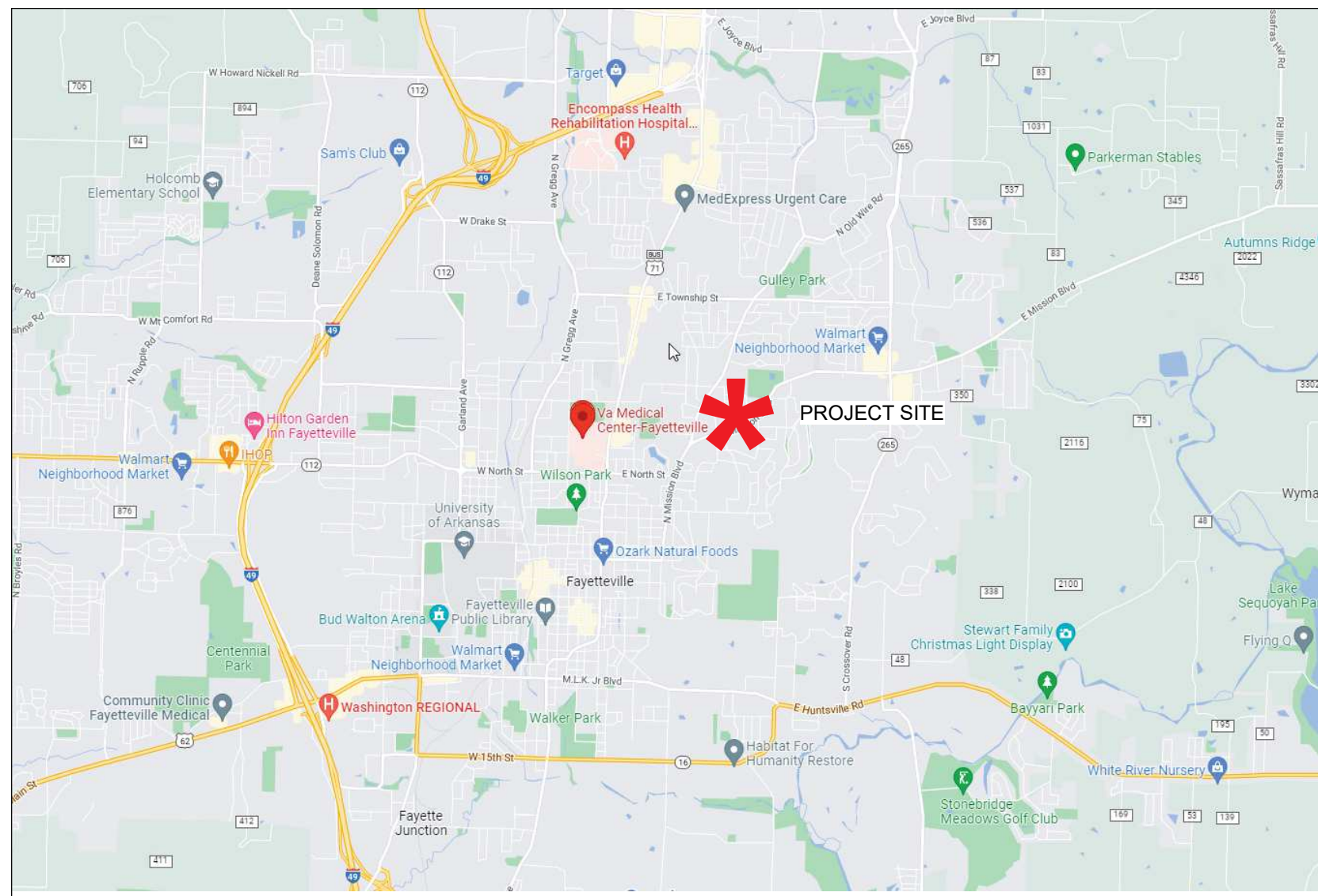


CONSTRUCT NEW WATER STORAGE FACILITY

1100 N COLLEGE AVE
FAYETTEVILLE, AR 72703

PROJECT No: 564-19-101

CONSTRUCTION DOCUMENTS



VICINITY MAP



CAMPUS MAP

PROJECT INFORMATION

PROJECT INFORMATION
CONSTRUCT NEW WATER STORAGE FACILITY
VAHO
1100 N COLLEGE AVE
FAYETTEVILLE, AR 72703

PROJECT NUMBER: 564-19-101

PROJECT INFORMATION
THIS PROJECT WILL CONSTRUCT A NEW 600,000 GALLON GROUND MOUNTED WATER TANK & SUPPORTING PUMP HOUSE w/ WATER PUMPS TO PROVIDE OPERATING PRESSURE FOR ALL BUILDINGS & SERVICES AT ALL LEVELS, AN EMERGENCY POWER GENERATOR w/ SUPPORT EQUIPMENT FOR PUMP SYSTEM AND ALL SUPPORTING FACILITIES.

THIS PROJECT IS CLASSIFIED AS MISSION CRITICAL IN ACCORDANCE WITH VA PHYSICAL SECURITY DESIGN MANUAL.

BUILDING SUMMARY
GROSS FLOOR AREA: 775 GSF

MAIN USE: INDUSTRIAL, GENERAL
SECONDARY USES: NONE

SCHEDULE OF BID ITEMS

BID ITEM 1, BASE BID: PROVIDE ALL NECESSARY LABOR, MATERIALS, TOOLS, AND GENERAL CONDITIONS FOR:

"CONSTRUCT NEW WATER STORAGE FACILITY"
VA PROJECT 564-19-101
VETERANS HEALTHCARE SYSTEM OF THE OZARKS
FAYETTEVILLE, ARKANSAS

WORK INCLUDES, BUT IS NOT LIMITED TO: SITE DEMOLITION, CIVIL SITE, NEW VERTICAL CONSTRUCTION OF STEEL AND MASONRY BUILDINGS, ELEVATED WATER STORAGE TANKS AND ASSOCIATED BELOW AND ABOVE-GRADE UTILITIES, PLUMBING, HVAC AND ELECTRICAL.

BID ITEM 2, DEDUCT ALTERNATE #1: OMIT FACE BRICK. DIMENSIONALLY ADJUST FLOOR SLABS, OPENINGS, AND FLASHINGS TO ACCOMMODATE THINNER WALL.

BID ITEM 3, DEDUCT ALTERNATE #2: OMIT JIB CRANE AND FOUNDATION.

BID ITEM 4, DEDUCT ALTERNATE #3: OMIT WATER LINE EXTENSION TO LEROY POND BUILDING.

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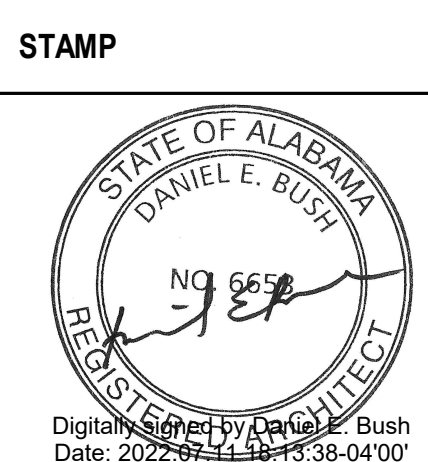
MISSION CRITICAL

CONSULTANTS

FPC CONSULTANTS FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116	GRW SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503	Hodges Engineering CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653	Bernhard TME STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 200 LITTLE ROCK, AR 72202
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ARCHITECT/ENGINEER OF RECORD

A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-604-4811 jda@johnsondanforth.com JDA PROJECT #: 2018.001	JD a
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Drawing Title COVER SHEET
Approved: Project Director

Phase CONSTRUCTION DOCUMENTS

Project Title		
CONSTRUCT NEW WATER STORAGE FACILITY		
Location		
FAYETTEVILLE, AR		
Issue Date	Checked	Drawn
2022.07.15	BUSH	DEB

Project Number 564-19-101
Building Number
Drawing Number GI001

A	CLASS A DOOR	BOT	BOTTOM	CTR	CENTER CONTOUR	FAC	FACTOR	H	HIGH	LMST	LIMESTONE	NS	NARROW STILE	QTR	QUARTER	SJI	STEEL JOIST SLIDING WINDOW
A LABEL	AIR CONDITIONING	BR	BEDROOM	CTRL	CONTROL	FACIL	FACILITY	H PLAM	HIGH PRESSURE PLASTIC LAMINATE	LNDS	LANDSCAPE	NUM	NUMERAL	QTY	QUANTITY	SK	SKETCH
A/C	AIR CONDITIONING UNIT	BRG	BRIDGING	CTV	CABLE TELEVISION	FAS	FASCIA	HAZ MAT	HAZARDOUS MATERIALS	LR	LIVING ROOM	O	OXYGEN	QUAD	QUADRANT	SKLT	SKYLIGHT
A/C UNIT	AIR CONDITIONING UNIT	BRDG	BRIDGING	CU	COPPER C	FAS BD	FASCIA BOARD	HC	HOLLOW CORE	LRG	LARGE	O	OVER HEAD	QUAL	QUALITY	SLD WDW	HORIZONTAL SLIDING WINDOW
A/E	ARCHITECT/ENGINEER	BRDG JST	BRIDGING JOIST	CU FT	CUBIC FEET	FCO	FLOOR CLEANOUT	HC	HOLLOW CORE	LRV	LOUVERED ROOF VENT	O	OUT TO OUT	R	RADIUS OR RISER	SLDG	SLIDING
AAMA	AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION	BRG	BEARING	CU IN	CUBIC INCH	FCY	FACTORY	HCWD	HOLLOW CORE WOOD DOOR	LS	LUMP SUM	O/H	OVERHEAD	RA	RADIATOR	SLNT	SEALANT
AB	ANCHOR BOLT	BRG PL	BEARING PLATE	CU YD	CUBIC YARD	FD	FLOOR DRAIN	HDDB	HARDBOARD	LT	LIGHT	O/O	OUT TO OUT	R	RETURN AIR	SM	SHEET METAL
ABA	ARCHITECTURAL BARRIERS ACT	BRKT	BRACKET	CURT	CURTAIN	FDC	FIRE DEPARTMENT CONNECTION	HDNR	HARDENER	LT GA	LIGHT GAGE	OA	OUTSIDE AIR OR OVERALL	RA	RETURN AIR	SMK	SMOKE
ABC	AGGREGATE BASE COURSE	BRZ	BRONZE	CYL	CYLINDER	FDTN	FOUNDATION	HDO	HIGH DENSITY OVERLAY	LT WT	LIGHTWEIGHT	OC	ON CENTER	RA	RETURN AIR	SMS	SHEET METAL SCREW
AC	ASBESTOS CEMENT OR ASPHALTIC CONCRETE	BSMT	BASEMENT	CYL L	CTLINDER LOCK	FE	FIRE EXTINGUISHER	HDR	HEADER	LTG	LIGHTING	OCC	OCCUPY	RAD	RADIATOR	SND	SANITARY NAPKIN DISPENSER
ACI	AMERICAN CONCRETE INSTITUTE	BTWN	BETWEEN			FEC	FIRE EXTINGUISHER CABINET	HDW	HARDWARE	LTNG	LIGHTNING	OCT	OCTAGON	RB	RESILIENT BASE OR RUBBER BASE	SND INS	SOUND INSULATION
ACS DR	ACCESS DOOR	BU	BUSH			FF	FINISH FACE	HDWD	HARDWOOD	LVD	LOUVERED	OD	OUTSIDE DIAMETER OR OUTSIDE DIMENSION	RB HK	ROBE HOOK	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ACS FLR	ACCESS FLOOR	BUR	BUILT-UP ROOFING	D	DEPTH OR PENNY (NAIL)	FF EL	FINISH FLOOR ELEVATION	HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	LVR	LOUVER	OFD	OVERFLOW DRAIN	RBM	REINFORCED BRICK MASONRY	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ACS PNL	ACCESS PANEL			D LABEL	CLASS D DOOR	FF&E	FURNITURE, FIXTURE, AND EQUIPMENT			LWC	LIGHTWEIGHT CONCRETE	OFF	OFFICE	RBR	RUBBER	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ACST	ACOUSTIC			DAT	DATUM			HEX	HEXAGON	LWIC	LIGHTWEIGHT INSULATING CONCRETE	OH	OVERHANG	RC	REMOTE CONTROL	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ACT	ACOUSTICAL CEILING TILE		CELSIUS CHANNEL OR CHANNEL CELSIUS	DB	DECIBEL	FH	FLAT HEAD OR FLAT HEAD SCREWS	HF	HIGH FREQUENCY	LYR	LAYER	OH DR	OVERHEAD (COILING) DOOR	RCP	REFLECTED CEILING PLAN	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AD	AREA DRAIN	C CONC	CAST CONCRETE	DBL GLZ	DOUBLE GLAZE	FHC	FIRE HOSE CABINET	HGR	HANGAR			OPH	OPPOSITE HAND	RCVR	RECEIVER	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADA	AMERICANS WITH DISABILITIES ACT	C LABEL	CLASS C DOOR	DEG	DIRECT CURRENT	FHMS	FLAT HEAD MACHINE SCREW	HMD	HOLLOW METAL OR HECTOMETER	M	MACHINE	OPNG	OPENING	RD	ROAD OR ROOF DRAIN	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADB	AUTOMATIC DOOR BOTTOM	C TO C	CENTER TO CENTER	DEL	DELETE	FHP	FULL HEIGHT PARTITION	HMD	HOLLOW METAL DOOR AND FRAME	MAINT	MAINTAIN, MAINTENANCE	OPP	OPPOSITE	REC	RECESSED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADDL	ADDITIONAL	C/V	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	DEM	DEMOLITION	FHW	FLAT HEAD WOOD SCREW	HMD	HOLLOW METAL DOOR AND FRAME	MAN	MANUAL	OPR	OPERABLE	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADDN	ADDITION	CAB	CABINET	DET	DEPARTMENT	FIG	FIGURE	HMD	HOLLOW METAL DOOR AND FRAME	MAINT	MAINTAIN, MAINTENANCE	OPT	OPTIONAL	RECPT	RECEPTACLE	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADH	ADHESIVE	CAC	CEILING ATENUATION CLASS	FIN	FINISH	FIN FLR	FINISH FLOOR	HMD	HOLLOW METAL DOOR AND FRAME	MAN	MANUAL	ORD	OPERATING ROOM OR OUTSIDE RADIUS	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE	CB	CATCH BASIN OR CORNER BEAD	FIN GR	FINISH GRADE	FIN GR	FINISH GRADE	HMD	HOLLOW METAL DOOR AND FRAME	MATL	MATERIAL	OR	OPERATING ROOM OR OUTSIDE RADIUS	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ADMIN	ADMINISTRATION	CBB	CEMENTITIOUS (BACKER) BOARD	HO	HOLD OPEN	FIN WD	FINISH WOOD	HMD	HOLLOW METAL DOOR AND FRAME	MATV	MASTER ANTENNA TELEVISION SYSTEM	ORG	ORGANIC	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AFC	ABOVE FINISHED COUNTER	CC	CUBIC CENTIMETER	HOSP	HOSPITAL	FIXT	FIXTURE	HMD	HOLLOW METAL DOOR AND FRAME	MAX	MAXIMUM	ORIG	ORIGINAL	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AFF	ABOVE FINISHED FLOOR	CCW	COUNTERCLOCKWISE	HP	HIGH PRESSURE OR HORSEPOWER	FL	FLOORLINE	HMD	HOLLOW METAL DOOR AND FRAME	MB	MACHINE BOLT	ORN	ORNAMENTAL	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AFG	ABOVE FINISHED GRADE	CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS	HO	HEADQUARTERS	FLASH	FLASHING	HMD	HOLLOW METAL DOOR AND FRAME	MCB	METAL CORNER BEAD	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AFS	ABOVE FINISHED SLAB			HR	HOUR	FLDG	FOLDING	HMD	HOLLOW METAL DOOR AND FRAME	ME	MECHANICAL ENGINEER	OUT	OUTLET	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AGA	AMERICAN GAS ASSOCIATION, ASSOCIATED GENERAL CONTRACTORS			HRS	HOURS	FLEX	FLEXIBLE	HMD	HOLLOW METAL DOOR AND FRAME	MEAS	MEASURE	OZ	OUNCE	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AGGR	AGGREGATE	CEM	CEMENT, CEMENTITIOUS	HS	HEAT-STRENGTHENED (GLASS) OR HIGH STRENGTH	FLG	FLOORING	HMD	HOLLOW METAL DOOR AND FRAME	MECH	MECHANICAL			REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AHJ	AUTHORITY HAVING JURISDICTION	CEM PLAS	CEMENT PLASTER	FLR	FLOOR	FLR FIN	FLOOR FINISH	HMD	HOLLOW METAL DOOR AND FRAME	MED	MEDICAL MEDIUM O MEDIUM	P	PARALLEL OR PARAPET	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AHR	ANCHOR	CER	CERAMIC	FLR SK	FLOOR SINK	FLR SK	FLOOR SINK	HMD	HOLLOW METAL DOOR AND FRAME	MEK	METHYL ETHYL KETONE	PARA	PARAGRAPH	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AHU	AIR HANDLING UNIT	CF	CONTRACTOR FURNISHED	FLUOR	FLUORESCENT	DOUG FIR	DOUGLAS FIR	HMD	HOLLOW METAL DOOR AND FRAME	MEL	MELAMINE	PART	PARTIAL	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CFLG	COUNTERFLASHING	DOZ	DOZEN	FM	FACTORY MUTUAL	HMD	HOLLOW METAL DOOR AND FRAME	MEMBO	MEMORANDUM	PAT	PATTERN	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CFMF	COLD-FORMED METAL FRAMING	FM-G	FACTORY MUTUAL GLOBAL	FO	FINISHED OPENING	HMD	HOLLOW METAL DOOR AND FRAME	MEZZ	MEZZANINE	PB	PUSHBUTTON	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ALT	ALTERNATE, ALTERNATIVE	CFS	CUBIC FEET PER SECOND	FO	FINISHED OPENING	FO	FINISHED OPENING	HMD	HOLLOW METAL DOOR AND FRAME	MF	MILL FINISH	PBD	PARTICLEBOARD	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ALT NO	ALTERNATE NUMBER	CG	CENTER OF GRAVITY OR CORNER GUARD	FOC	FACE OF CONCRETE OR FACE OF CURB	FOF	FACE OF FINISH	HMD	HOLLOW METAL DOOR AND FRAME	MFD	MANUFACTURED	PC	PIECE, POLYCARBONATE OR PORTLAND CEMENT	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ALUM	ALUMINUM	CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS	FOF	FACE OF FINISH	FOM	FACE OF MASONRY	HMD	HOLLOW METAL DOOR AND FRAME	MFR	MANUFACTURER	PCA	PORTLAND CEMENT ASSOCIATION	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AMP	AMPERE	CH BD	CHALKBOARD	FOM	FACE OF MASONRY	FOS	FACE OF SLAB OR FACE OF CURB	HMD	HOLLOW METAL DOOR AND FRAME	MFR REC	MANUFACTURER'S RECOMMENDATION	PCC	PRECAST CONCRETE	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AMT	AMOUNT	CHM	CHEMICAL	FOW	FACE OF WALL	FOUNT	FOUNTAIN	HMD	HOLLOW METAL DOOR AND FRAME	MGT	MANAGEMENT	PCCP	CONCRETE PAVEMENT	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ANOD	ANODIZE	CHK	CHECK	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FOW	FACE OF WALL	HMD	HOLLOW METAL DOOR AND FRAME	MH	MANHOLE	PCD	PAPER CUP DISPENSER	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CI	CAST IRON	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIC	MICROPHONE	PCF	POUNDS PER CUBIC FOOT	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ANT	ANTENNA	CIP	CAST-IN-PLACE	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MID	MIDDLE	PCP	PORTLAND CEMENT PLASTER	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
APA	AMERICAN PLAYWOOD ASSOCIATION	CIR	CIRCULATING, CIRCULAR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIL STD	MILITARY STANDARD	PED	PEDESTAL	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
APPD	APPROVED	CIR	CIRCULAR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIN	MINIMUM	PEN	PENETRATE	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
APPROX	APPROXIMATE, APPROXIMATELY	CIRC	CIRCULATING, CIRCULAR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIN	MINIMUM MINUTE OR MINUTE	PEND	PENDANT	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
APT	APARTMENT	CJ	CONSTRUCTION JOINT OR CONTROL JOINT	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIN	MINIMUM MINUTE OR MINUTE	PERF	PERFORATED	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
AR	AS REQUIRED	CL	CENTER LINE	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIRR	MIRROR	PERIM	PERIMETER	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ARCH	ARCHITECT, ARCHITECTURAL	CLDG	CLADDING	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MISC	MISCELLANEOUS	PERP	PERPENDICULAR	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ASB	ASBESTOS	CLG	CEILING	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MISC	MISCELLANEOUS	PGBD	PEGBARD	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	CLG HT	CEILING HEIGHT	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MIT	MITER	PHAR	PHARMACY	REC	RECEIVED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
ASKLR	AUOMATIC SPRINKLER	CLR	CLEAR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	FP	FIRE PROTECTION OR FIREPROOF OR FLAT PANEL DOOR	HMD	HOLLOW METAL DOOR AND FRAME	MKR	MARKER						

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CODE SUMMARY

APPLICABLE CODES IN ORDER OF PRECEDENCE:
VETERANS AFFAIRS "FIRE PROTECTION DESIGN MANUAL", CURRENT EDITION
NFC CODES, CURRENT EDITION

OCCUPANCY CLASSIFICATION: NFPA: INDUSTRIAL, GENERAL
IBC: UTILITY

STRUCTURE IS **FULLY SPRINKLED** PER PSDM AND FPDm

CONSTRUCTION TYPE: NFPA: II (000)
IBC: II-B

CONSTRUCTION TYPE LIMITATIONS
NFPA: NONE (40.1.6)
IBC:

- BUILDING AREA (PROPOSED / PERMITTED): 775 SF / 8,500 SF
- NO. OF STORIES (PROPOSED / PERMITTED): 1 STORY / 3
- HEIGHT (FT) TO ROOF (PROPOSED / PERMITTED): 18' / 55'

FIRE RESISTENCE RATING OF BUILDING ELEMENTS:

ELEMENT	REQUIRED RATING
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS (NOTE 3)	0 / 1 FOR WEST WALL
EXTERIOR	0
INTERIOR	0
NON-BEARING WALLS AND PARTITIONS	0 / 1 FOR WEST WALL
EXTERIOR (NOTE 3)	0
INTERIOR	0
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0
ROOF CONSTRUCTION & SECONDARY MEMBERS	0

OCCUPANT LOAD:
FROM NFPA 101 2018 T7.3.1.2 "OCCUPANT LOAD FACTOR":
INDUSTRIAL, GENERAL: 100 SF/OCCUPANT
GROSS FLOOR AREA: 775 SF
TOTAL OCCUPANT LOAD: 8 OCCUPANTS (775 SF/100)

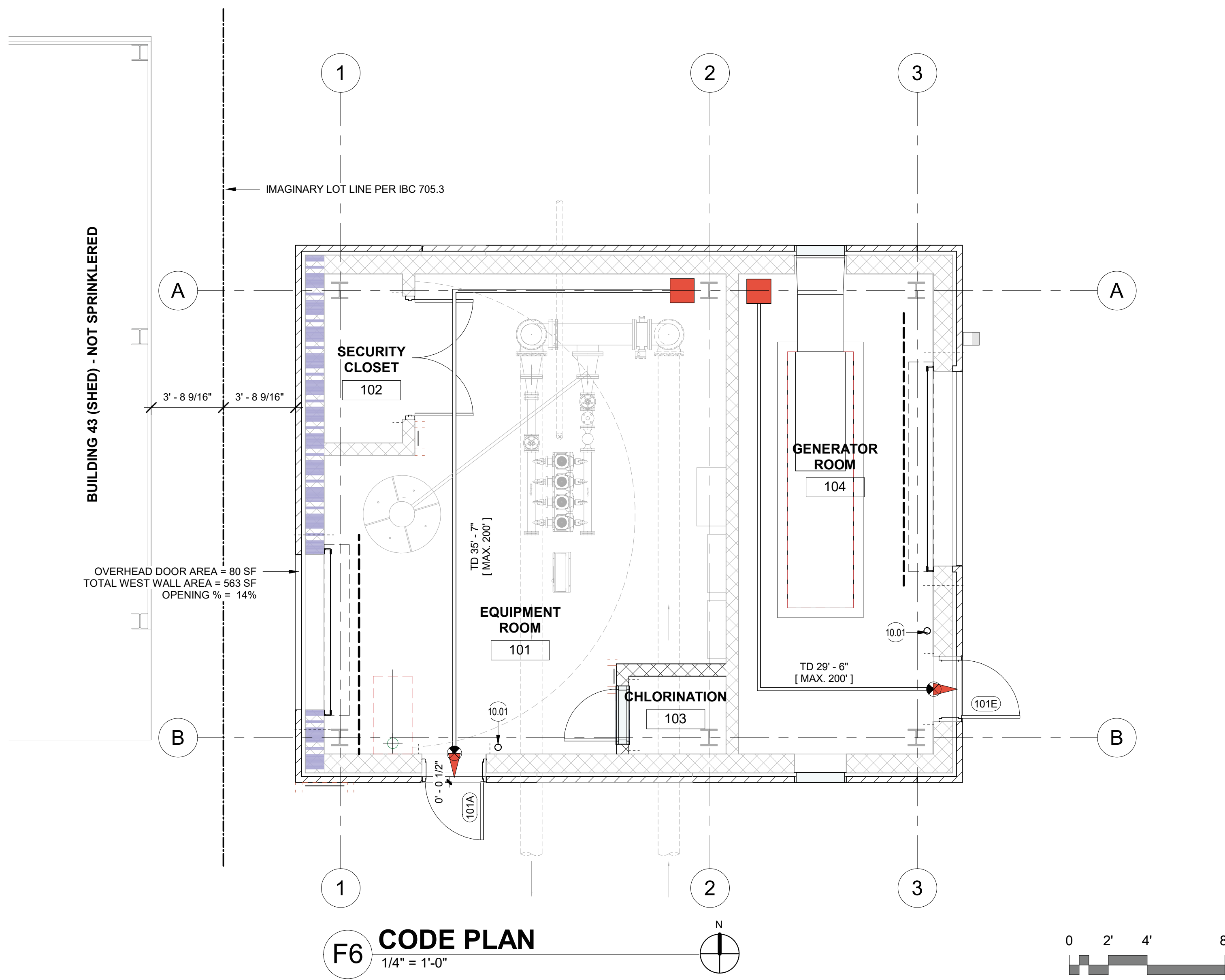
TRAVEL DISTANCE AND COMMON PATH OF TRAVEL LIMITATIONS:
COMMON PATH OF TRAVEL (PROPOSED / PERMITTED): 50' 200'
TRAVEL DISTANCE (PROPOSED / PERMITTED): 0/50'
DEAD END (PROPOSED / PERMITTED): 0/50'
HIGH-RISE / NOT HIGH-RISE: NOT HIGH RISE (3.3.37.7)

FIRE SEPARATION DISTANCE AND OPENING ALLOWANCES:
PER IBC 705.3, FOR MULTIPLE BUILDINGS ON THE SAME LOT, AN IMAGINARY LINE MUST BE STRUCK EQUIDISTANCE BETWEEN THEM TO DETERMINE BUILDING SEPARATION DISTANCE.
PER IBC T802, A FIRE SEPARATION DISTANCE OF <5 FEET FOR GROUP I REQUIRES EXTERIOR WALLS TO HAVE A 1-HOUR RATING.
PER IBC T705.8, FOR BUILDING SEPARATION DISTANCE BETWEEN 3 AND 5 FEET, OPENINGS ARE LIMITED TO 15% OF WALL AREA.

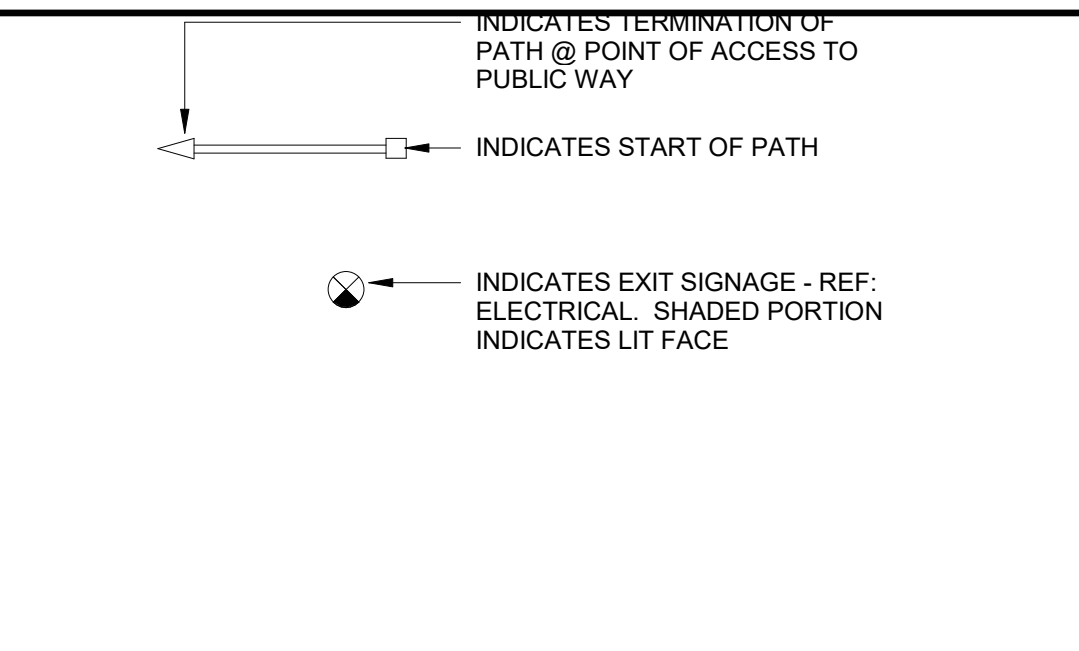
EXPLANATORY NOTES:
1. FOR BUILDINGS WHERE NFPA 101 PROVIDES CONSTRUCTION REQUIREMENTS FOR ONE OR MORE OF THE OCCUPANCIES WITHIN THE BUILDING, THE TYPE OF CONSTRUCTION AS WELL AS THE HEIGHT FOR THE BUILDING MUST COMPLY WITH THE MOST RESTRICTIVE OCCUPANCY CONSTRUCTION REQUIREMENTS OF NFPA 101.
2. FOR BUILDINGS WHERE NFPA 101 DOES NOT PROVIDE CONSTRUCTION REQUIREMENTS FOR ANY OF THE OCCUPANCIES WITHIN THE BUILDING, THE CONSTRUCTION TYPE AS WELL AS HEIGHT AND AREA LIMITATIONS FOR THE BUILDING MUST COMPLY WITH THE REQUIREMENTS OF THE IBC.
A. NOTE: THE HEIGHT AND AREA LIMITATIONS FOUND IN THE IBC WILL APPLY ONLY TO THOSE BUILDINGS WHERE ALL OCCUPANCIES WITHIN THE BUILDING HAVE NO CONSTRUCTION REQUIREMENTS IN NFPA 101. FOR EXAMPLE, USE OF THE IBC WILL RESTRICT THE HEIGHT AND AREA OF A TYPE V BUILDING CONTAINING A BUSINESS OCCUPANCY WHILE NFPA 101 WOULD PERMIT THE BUILDING TO BE OF UNLIMITED HEIGHT AND AREA. TYPICALLY, NEW CONSTRUCTION IN THE VA WILL REQUIRE THE BUILDING TO BE SPRINKLER PROTECTED AND THE LIMITATIONS IN THE IBC FOR FULLY SPRINKLER PROTECTED BUILDINGS SHOULD NOT BE OVERLY RESTRICTIVE.
3. THE REQUIREMENTS FOR FIRE RESISTANCE RATINGS OF EXTERIOR WALLS, MAXIMUM AREA FOR EXTERIOR WALL OPENINGS, AND OPENING PROTECTION MUST COMPLY WITH THE IBC (SEE NOTE 1) EXCEPT AS FOLLOWS:
A. THERE ARE NO REQUIREMENTS FOR SEPARATION OR OPENINGS BETWEEN VA BUILDINGS WHEN BOTH (ALL) BUILDINGS ARE FULLY SPRINKLER PROTECTED. THIS EXCEPTION DOES NOT APPLY TO VA BUILDINGS THAT ARE ADJACENT TO NON-VA PROPERTY LINES. AS PERMITTED UNDER SECTION 2.9 OF VA FIRE PROTECTION DESIGN MANUAL, BUILDING SEPARATION REQUIREMENTS ARE FOUND IN TABLE 602 AND OPENING REQUIREMENTS ARE FOUND IN TABLE 705.8 OF THE IBC. WITH GREATER THAN 60 FEET OF SEPARATION BETWEEN BUILDINGS (OR GREATER THAN 30 FEET OF SEPARATION BETWEEN A BUILDING AND A PROPERTY LINE), THERE ARE NO REQUIREMENTS IN THE IBC. WITH <60 FEET OF SEPARATION BETWEEN BUILDINGS (OR <30 FEET OF SEPARATION BETWEEN A BUILDING AND A PROPERTY LINE) AND WHERE ANY ONE BUILDING IS NOT FULLY SPRINKLER PROTECTED, THE REQUIREMENTS IN THE IBC MUST BE FOLLOWED.
C. AS A RESULT OF THE BUILDING SEPARATION REQUIREMENTS OF IBC, THE WEST WALL MUST HAVE A 1-HOUR RATINGS WITH RATED OPENINGS.

EGRESS DOOR SUMMARY

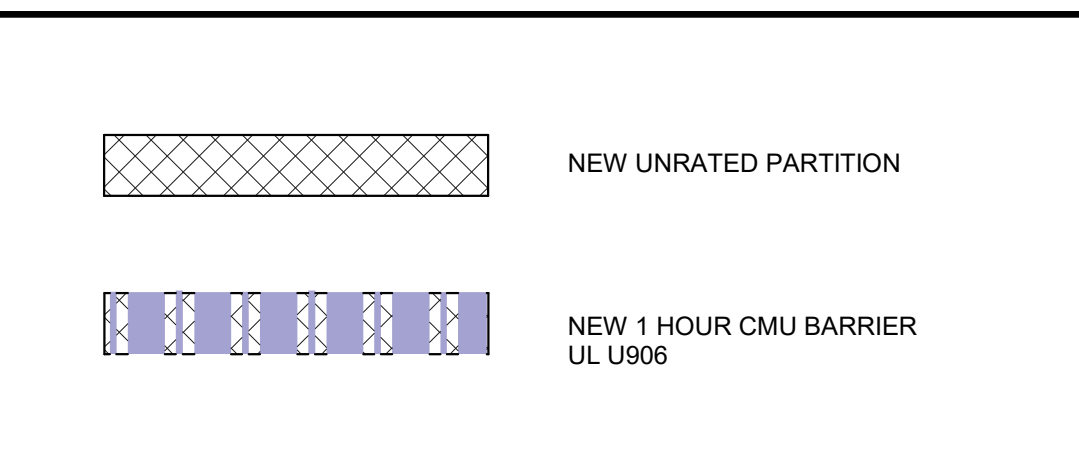
MARK	REQ'D WIDTH	ACTUAL WIDTH
101A	1"	2' - 8"
101E	19/32"	2' - 8"



EGRESS LEGEND



PARTITION LEGEND



CONSULTANTS

FPC CONSULTANTS
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FP&C CONSULTANTS KC, LLC
1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116

SECURITY
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LEXINGTON, KY 40503

CIVIL ENGINEER
HODGES ENGINEERING
231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653

STRUCTURAL ENGINEER
BERNHARD TME
BUILDING 2, 1 ALLIED DRIVE
SUITE 200
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

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JDA PROJECT #: 2018.001

STAMP

STATE OF ARKANSAS
DANIEL E. BUSH
No. 6658
REGISTERED PROFESSIONAL ARCHITECT
Date: 2/22/2017, Exp: 2/22/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
CODE PLAN

Approved: Project Director

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER STORAGE FACILITY

Project Number
564-19-101
Building Number
39

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

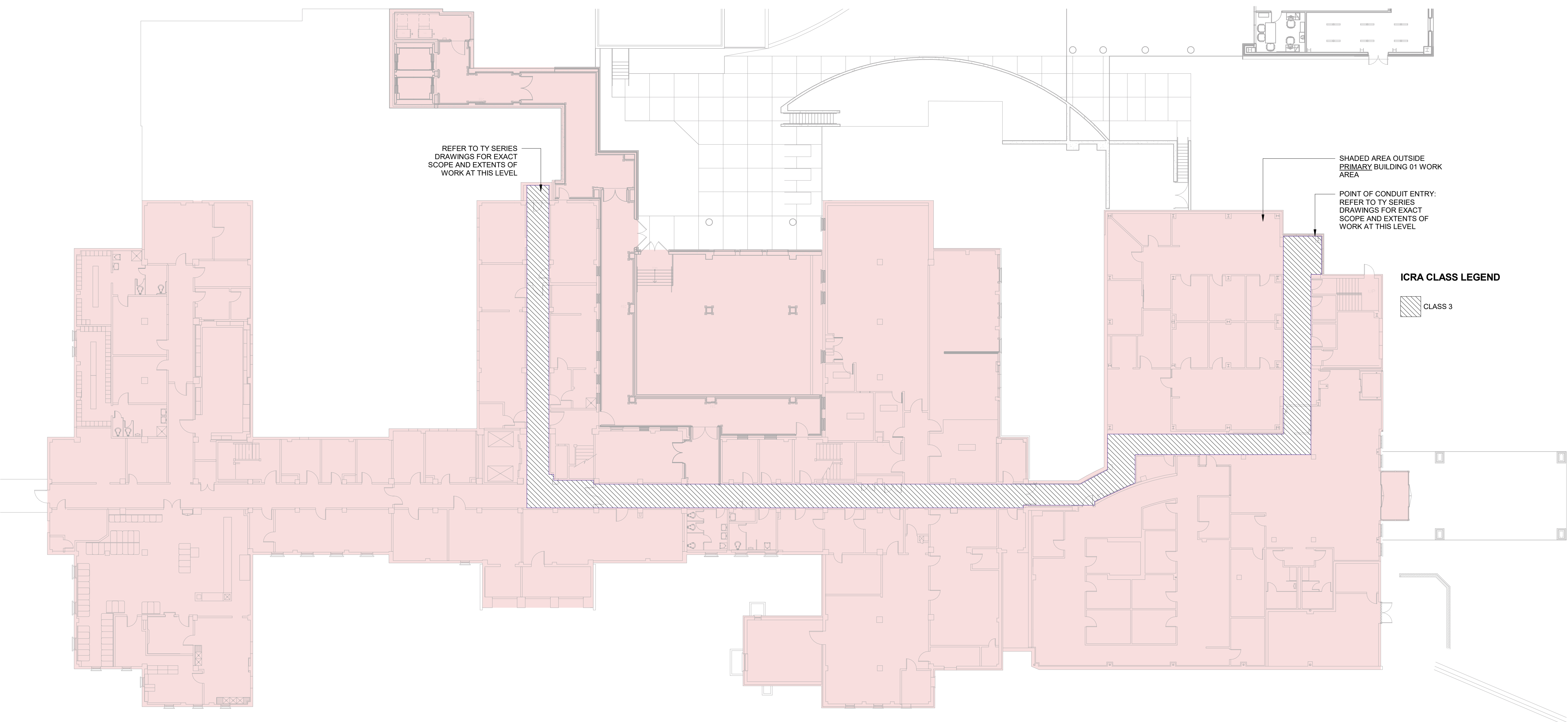
Checked
BUSH

Drawn
DEB

Drawing Number
G101

GENERAL NOTES

1. REFER TO ICRA MATRIX ON SHEET GC103 FOR SUMMARY OF ICRA CONSTRUCTION/PROJECT ACTIVITIES, RISK GROUPS AND ICRA CLASS PRECAUTIONS. REFER TO SPECIFICATION SECTION 01 35 26 "SAFETY REQUIREMENTS" FOR FULL DETAILS OF REQUIREMENTS BY ICRA CLASS.
2. WORK LIMITS ARE TO ENCOMPASS ALL AREAS WITH REQUIRED WORK ACROSS ALL DISCIPLINES; CONTRACTOR TO FULLY FAMILIARIZE THEMSELVES WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND THE INTENDED WORK.
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**BUILDING 1 GROUND FLOOR
ICRA PLAN**
F1 1/16" = 1'-0"

CONSULTANTS

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**Office of
Construction
and Facilities
Management**

VA U.S. Department
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Drawing Title
**BUILDING 1 GROUND FLOOR ICRA
PLAN**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
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STORAGE FACILITY**

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Checker

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Author

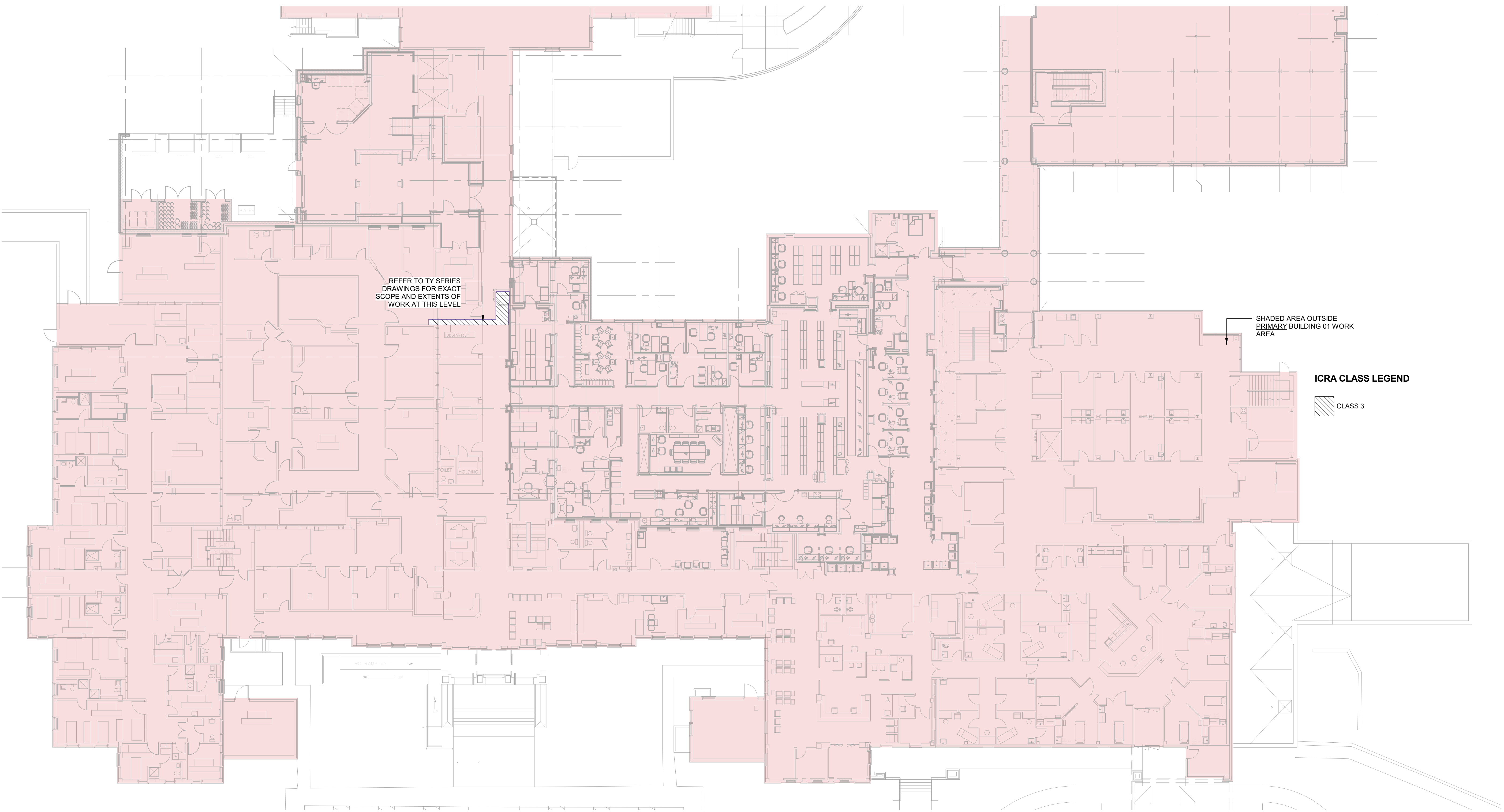
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BUILDING 1 FIRST FLOOR ICRA PLAN

F1
1/16" = 1'-0"

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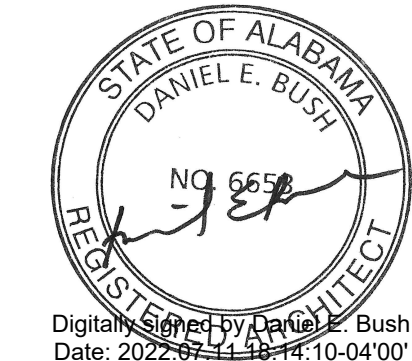
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**Office of
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Management**



U.S. Department
of Veterans Affairs

Drawing Title
**BUILDING 1 FIRST FLOOR ICRA
PLAN**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

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STORAGE FACILITY**

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Checked
Checker

Drawn
Author

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GC102

TYPE OF CONTRUCTION/PROJECT ACTIVITY TABLE	
TYPE A	INSPECTION AND NON-INVASIVE ACTIVITIES INCLUDES BUT IS NOT LIMITED TO: <ul style="list-style-type: none">REMOVAL OF CEILING TILES FOR VISUAL INSPECTION LIMITED TO 1 TILE IN 50 SQUARE FEETPAINTING (BUT NOT SANDING), WALL COVERINGELECTRICAL TRIM WORK, MINOR PLUMBING, AND ACTIVITIES THAT DO NOT GENERATE DUST OR REQUIRE CUTTING OF WALLS OR ACCESS TO CEILINGS OTHER THAN FOR VISUAL INSPECTION
TYPE B	SMALL SCALE, SHORT DURATION ACTIVITIES THAT CREATE MINIMAL DUST INCLUDES BUT IS NOT LIMITED TO: <ul style="list-style-type: none">INSTALLATION OF TELEPHONE AND COMPUTER CABLINGACCESS TO CHASE SPACESCUTTING OF WALLS OR CEILING WHERE DUST MIGRATION CAN BE CONTROLLED
TYPE C	WORK THAT GENERATES A MODERATE TO HIGH LEVEL OF DUST OR REQUIRES DEMOLITION OR REMOVAL OF ANY FIXED BUILDING COMPONENTS OR ASSEMBLIES INCLUDES BUT IS NOT LIMITED TO: <ul style="list-style-type: none">SANDING OF WALLS FOR PAINTING OR WALL COVERINGREMOVAL OF FLOOR COVERINGS, CEILING TILES AND CASEWORKNEW WALL CONSTRUCTIONMINOR DUCT WORK OR ELECTRICAL WORK ABOVE CEILINGSMAJOR CABLING ACTIVITIESANY ACTIVITY THAT CANNOT BE COMPLETED WITHIN A SINGLE WORK SHIFT
TYPE D	MAJOR DEMOLITION AND CONSTRUCTION PROJECTS INCLUDES BUT IS NOT LIMITED TO: <ul style="list-style-type: none">ACTIVITIES THAT REQUIRE CONSECUTIVE WORK SHIFTSREQUIRES HEAVY DEMOLITION OR REMOVAL OF A COMPLETE CEILING SYSTEMNEW CONSTRUCTION

PATIENT RISK GROUP TABLE	
GROUP 1-LOW RISK <ul style="list-style-type: none">OFFICE AREAS (NON-CLINICAL)	GROUP 2-MEDIUM RISK <ul style="list-style-type: none">CARDIOLOGYECHOCARDIOLOGYENDOSCOPY-GIPHYSICAL THERAPYRADIOLOGY/MRINUCLEAR MEDICINERESPIRATORY CARE (EXCEPT BRONCHOSCOPY AREA)CAFETERIAOUTPATIENT AREAS-CLINICS AND OFFICES (EXCEPTION: TRANSPLANT AND ONCOLOGY)
GROUP 3-HIGH RISK <ul style="list-style-type: none">EMERGENCY ROOMPOST ANESTHESIACARE UNITSLABOR AND DELIVERYPEDIATRICSADMISSION/DISCHARGE AREALABORATORIESPHARMACYINPATIENT UNITS (NOT OTHERWISE SPECIFIED)	GROUP 4-HIGHEST RISK <ul style="list-style-type: none">ALL OPERATING ROOMS INCLUDING LABOR AND DELIVERYANESTHESIA AND PUMP AREASCENTRAL EQUIPMENT/STERILE SUPPLYCARDIAC CATHETERIZATION AND ANGIOGRAPHY AREASINTERVENTIONAL RADIOLOGYRADIATION ONCOLOGYALL INTENSIVE CARE UNITSNEWBORN NURSERIES, INCLUDING NICUDIALYSIS UNITONCOLOGY-INPATIENT AND OUTPATIENTTRANSPLANT-INPATIENT AND OUTPATIENTPHARMACY ADMIXTURENEGATIVE PRESSURE ISOLATION ROOMS/AREAS (INCLUDING BRONCHOSCOPY AREA)

INFECTION CONTROL MATRIX-CLASS OF PRECAUTIONS: CONSTRUCTION PROJECT BY PATIENT RISK					
PATIENT RISK GROUP	TYPE A	TYPE B	TYPE C	TYPE D	NOTE: INFECTION CONTROL APPROVAL WILL BE REQUIRED WHEN THE CONSTRUCTION ACTIVITY AND RISK LEVEL INDICATE THAT CLASS II OR CLASS IV CONTROL PROCEDURES ARE NECESSARY.
LOW RISK GROUP 1	I	I	I	III / IV	
MEDIUM RISK GROUP 2	I	II	III	IV	
HIGH RISK GROUP 3	I	III / IV	III / IV	IV	
HIGHEST RISK GROUP 4	III	III / IV	III / IV	IV	

ICRA GENERAL NOTES

A. PROVIDE CONTAINMENT AS REQUIRED (BY HOSPITAL) INFECTION CONTROL REPRESENTATIVE FOR WORK OUTSIDE MAJOR AREA.

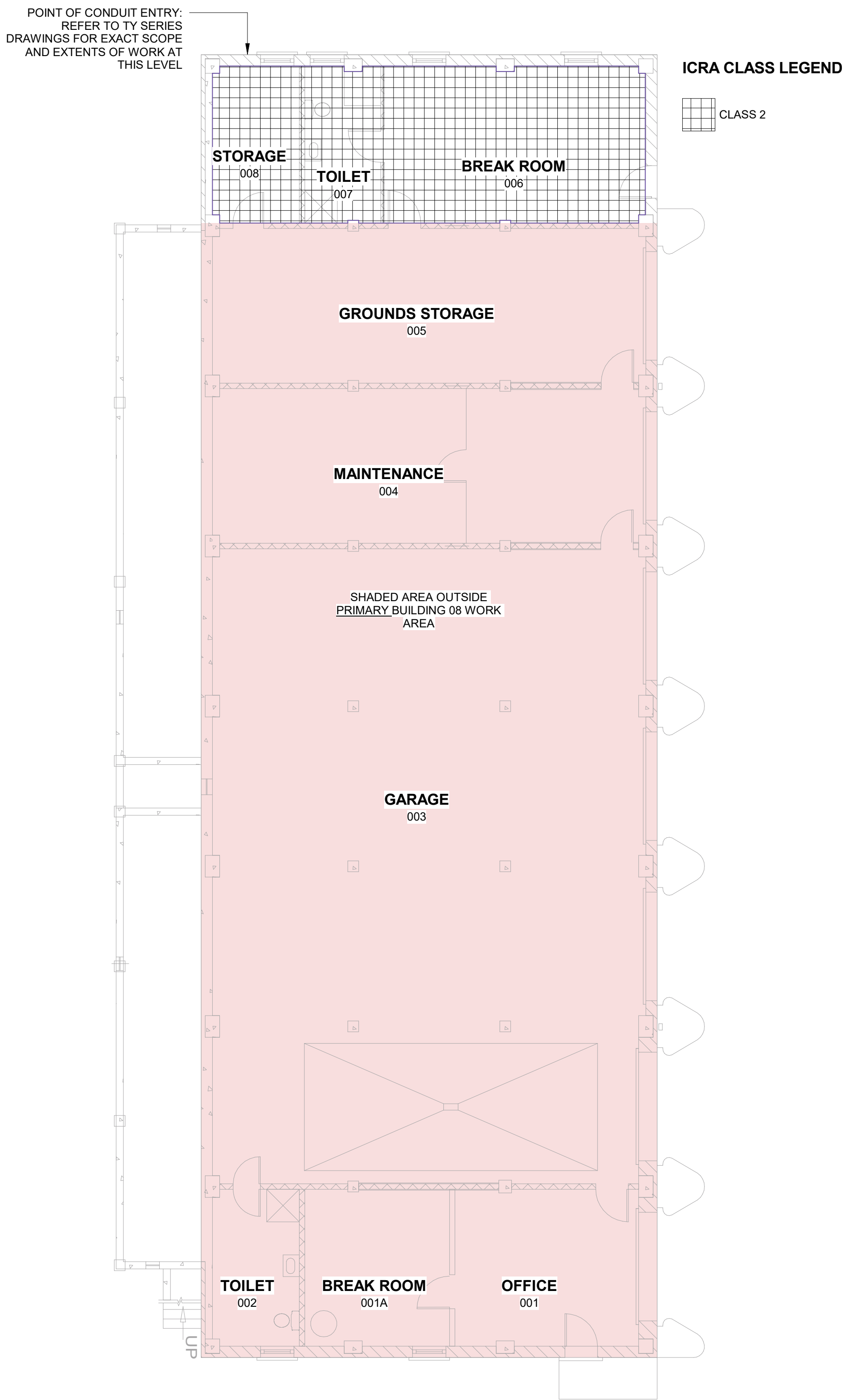
B. PROVIDE CONTAINMENT AT THE FLOOR BELOW FOR ANY WORK IN THE CEILING PLENUM.

C. PROVIDE TEMPORARY DOOR WITH GASKETING TO PREVENT THE MOVEMENT OF DUST.

D. PROVIDE TEMPORARY EMERGENCY EXIT FROM CONSTRUCTION ZONE; HOWEVER, ALL GENERAL CONSTRUCTION TRAFFIC SHOULD BE THROUGH VESTIBULE.

E. CONTRACTOR TO PROTECT ALL FINISHES INCLUDING (BUT NOT LIMITED TO) FLOORING, CEILING, WALL SURFACES, DOORS, AND DOOR FRAMES DURING THE MOVEMENT OF MATERIALS TO/FROM LIMIT OF WORK. COORDINATE WITH COR AND SPECIFICATIONS FOR PROCEDURES/REQUIREMENTS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE FOLLOWING INFECTION CONTROL PRECAUTIONS DEPENDING UPON THE AREA CLASS DESIGNATION				
DURING CONSTRUCTION PROJECT	UPON COMPLETION OF PROJECT	CLASS IV		
CLASS I 1. EXECUTE WORK BY METHODS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS. 2. IMMEDIATELY REPLACE A CEILING TILE DISPLACED FOR VISUAL INSPECTION.	1. WIPE SURFACES TO REMOVE DUST.	1. INCLUDES ALL ACTIVITIES REQUIRED BY CLASS III. 2. OBTAIN INFECTION CONTROL PERMIT FROM HOSPITAL SAFETY OFFICER OR FACILITIES MANAGEMENT MAINTENANCE AND ENGINEERING DEPARTMENT BEFORE CONSTRUCTION BEGINS. 3. ISOLATE HVAC SYSTEM IN AREAS WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM. 4. COMPLETE ALL CRITICAL BARRIERS OR IMPLEMENT CONTROL CUBE METHOD BEFORE CONSTRUCTION BEGINS. 5. MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA-EQUIPPED AIR FILTRATION UNITS. 6. SEAL HOLES, PIPES, CONDUITS, AND PUNCTURES APPROPRIATELY. 7. CONSTRUCT ANTEROOM AND REQUIRE ALL PERSONNEL TO PASS-THROUGH THIS ROOM SO THEY CAN BE VACUUMED USING A HEPA VACUUM CLEANER BEFORE LEAVING WORK SITE OR THEY CAN WEAR CLOTH OR PAPER COVERALLS THAT ARE REMOVED EACH TIME THEY LEAVE THE WORK SITE. 8. ALL PERSONNEL ENTERING WORK SITE ARE REQUIRED TO WEAR SHOE COVERS. SHOE COVERS MUST BE CHANGED EACH TIME THE WORKER EXITS THE WORK AREA. 9. PLACE ADHESIVE WALK-OFF MATS AT ENTRANCE TO WORK AREA WITH ANTEROOM. REPLACE PER MANUFACTURER'S RECOMMENDATIONS. 10. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED EACH BY THE HOSPITAL SAFETY OFFICER, FACILITIES MANAGEMENT MAINTENANCE AND ENGINEERING DEPARTMENT AND THOROUGHLY CLEANED BY THE HOSPITAL ENVIRONMENTAL SERVICES DEPARTMENT OR THEIR CONTRACTED ENVIRONMENTAL SERVICES COMPANY. 11. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. 12. COVER TRANSPORT RECEPTACLES OR CARS. TAPE COVERING. 13. VACUUM WORK WITH HEPA-FILTERED VACUUMS. WET MOP WITH DISINFECTANT AFTER BARRIERS ARE REMOVED. 14. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.	1. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DERRIS ASSOCIATED WITH CONSTRUCTION. 2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. 3. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING. 4. VACUUM WORK WITH HEPA-FILTERED VACUUMS. 5. WET MOP WITH DISINFECTANT AFTER BARRIERS ARE REMOVED. 6. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK WAS BEING PERFORMED.	
CLASS II 1. INCLUDES ALL ACTIVITIES REQUIRED BY CLASS I. 2. PROVIDE ACTIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO ATMOSPHERE. 3. WATER MIST WORK SURFACES TO CONTROL DUST WHILE CUTTING. 4. SEAL UNUSED DOORS WITH DUCT TAPE. 5. BLOCK OFF AND SEAL AIR VENTS. 6. REPLACE ADHESIVE WALK-OFF MATS AT ENTRANCE AN EXIT OF WORK AREA. REPLACE USED MATS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 7. REMOVE OR ISOLATE HVAC SYSTEM IN AREAS WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM.	1. WIPE WORK SURFACES WITH DISINFECTANT. 2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. 3. WET MOP AND/OR VACUUM WORK AREA WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREAS. 4. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK WAS BEING PERFORMED.	1. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DERRIS ASSOCIATED WITH CONSTRUCTION. 2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. 3. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING. 4. VACUUM WORK WITH HEPA-FILTERED VACUUMS. 5. WET MOP WITH DISINFECTANT. 6. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK WAS BEING PERFORMED.		
CLASS III 1. INCLUDES ALL ACTIVITIES REQUIRED BY CLASS II. 2. OBTAIN INFECTION CONTROL PERMIT FROM HOSPITAL SAFETY OFFICER OR FACILITIES MANAGEMENT MAINTENANCE AND ENGINEERING DEPARTMENT BEFORE CONSTRUCTION BEGINS. 3. REMOVE OR ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM. 4. COMPLETE ALL CRITICAL BARRIERS BEFORE CONSTRUCTION BEGINS OR IMPLEMENT CONTROL CUBE METHOD. 5. MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA-EQUIPPED AIR FILTRATION UNITS. 6. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. 7. COVER TRANSPORT RECEPTACLES OR CARS. TAPE COVERS. 8. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREAS. 9. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.	1. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DERRIS ASSOCIATED WITH CONSTRUCTION. 2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. 3. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING. 4. VACUUM WORK WITH HEPA-FILTERED VACUUMS. 5. WET MOP WITH DISINFECTANT. 6. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK WAS BEING PERFORMED.			



F6 BUILDING 8 GROUND FLOOR
ICRA PLAN
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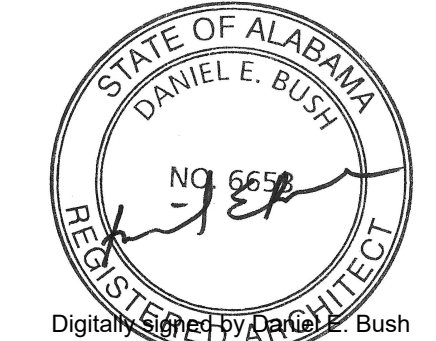
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STORAGE FACILITY**

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
BUSH

Drawn
DEB

Project Number
564-19-101

Building Number
39

Drawing Number
GC103

A

B

C

D

E

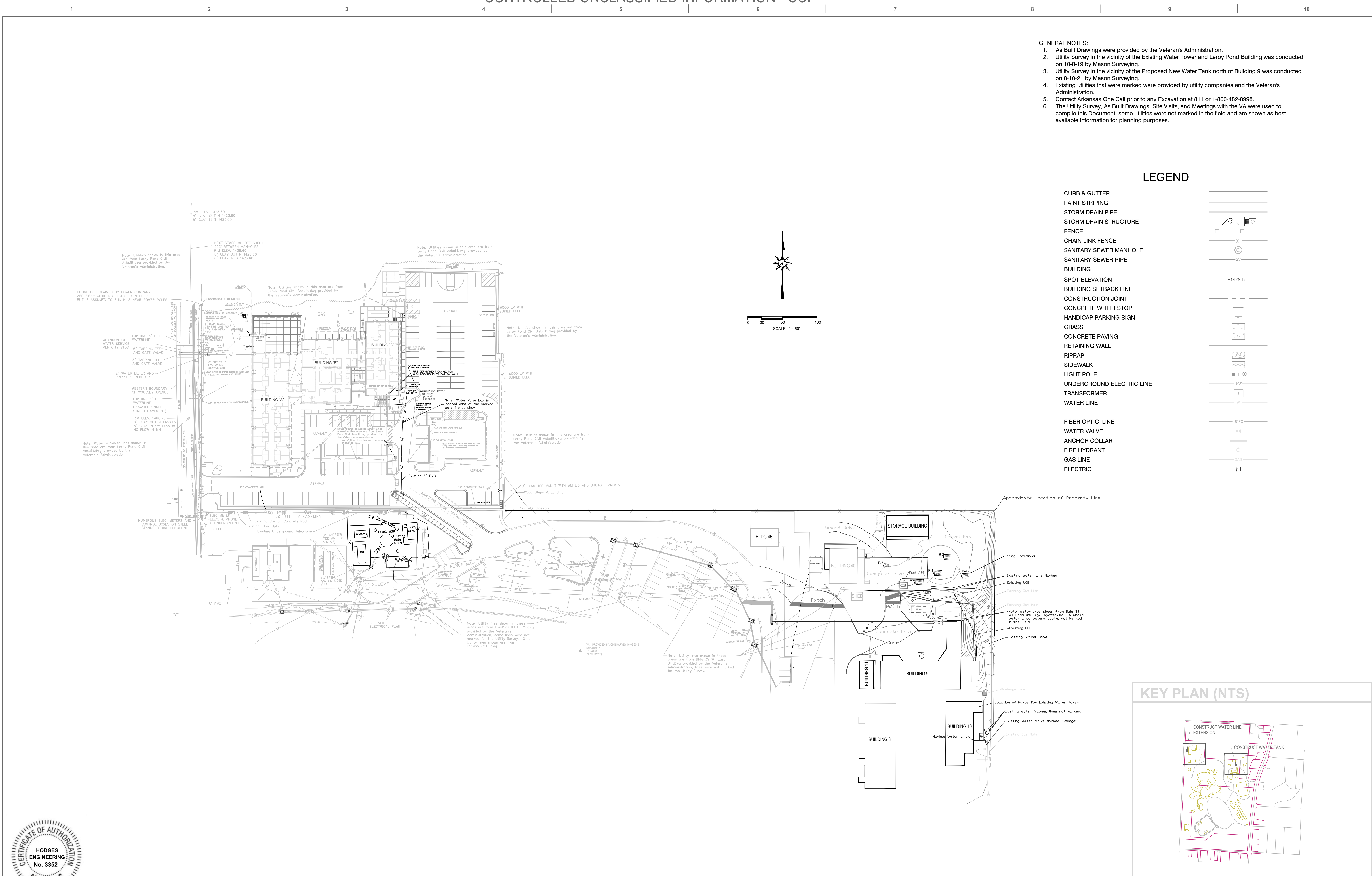
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7/11/2022 9:55:55 PM
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7/11/2022 9:55:55 PM

- GENERAL NOTES:
1. As Built Drawings were provided by the Veteran's Administration.
 2. Utility Survey in the vicinity of the Existing Water Tower and Leroy Pond Building was conducted on 10-8-19 by Mason Surveying.
 3. Utility Survey in the vicinity of the Proposed New Water Tank north of Building 9 was conducted on 8-10-21 by Mason Surveying.
 4. Existing utilities that were marked were provided by utility companies and the Veteran's Administration.
 5. Contact Arkansas One Call prior to any Excavation at 811 or 1-800-482-8998.
 6. The Utility Survey, As Built Drawings, Site Visits, and Meetings with the VA were used to compile this Document, some utilities were not marked in the field and are shown as best available information for planning purposes.

LEGEND

CURB & GUTTER	
PAINT STRIPING	
STORM DRAIN PIPE	
STORM DRAIN STRUCTURE	
FENCE	
CHAIN LINK FENCE	
SANITARY SEWER MANHOLE	
SANITARY SEWER PIPE	
BUILDING	
SPOT ELEVATION	
BUILDING SETBACK LINE	
CONSTRUCTION JOINT	
CONCRETE WHEELSTOP	
HANDICAP PARKING SIGN	
GRASS	
CONCRETE PAVING	
RETAINING WALL	
RIPRAP	
SIDEWALK	
LIGHT POLE	
UNDERGROUND ELECTRIC LINE	
TRANSFORMER	
WATER LINE	
FIBER OPTIC LINE	
WATER VALVE	
ANCHOR COLLAR	
FIRE HYDRANT	
GAS LINE	
ELECTRIC	



Revisions:

Date:

CONSULTANTS

FPC CONSULTANTS
FIRE PROTECTION
FPC CONSULTANTS KC, LLC
1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116

SECURITY
GRW
100 CORPORATE DRIVE
EXINGTON, KY 40033

Hodges Engineering
CIVIL ENGINEER
HODGES ENGINEERING
231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72553

Bernhard TME Engineering
STRUCTURAL ENGINEER
BERNHARD TME
BUILDING 2, 1 ALLIED DRIVE
SUITE 200
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

A/E
JohnsonDanforth & Associates
2200 N. ROONEY PARHAM ROAD
SUITE 210
LITTLE ROCK, AR 72212
501-404-4811
jda@johnsondanforth.com
JDA PROJECT #: 2018.001

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
EXISTING SITE PLAN

Approved: Project Director

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
JCH

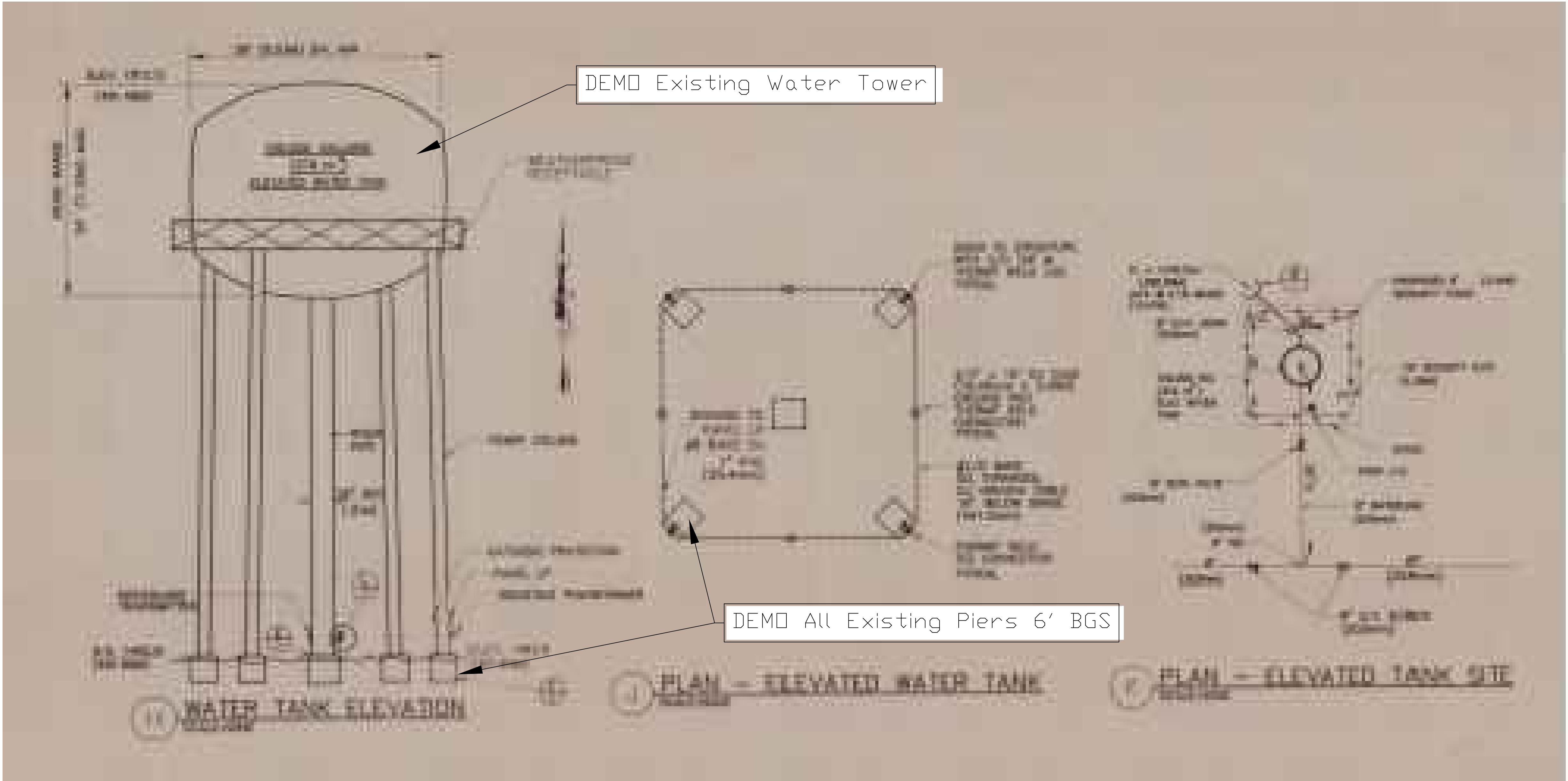
Drawn
KEH

Project Number
564-19-101

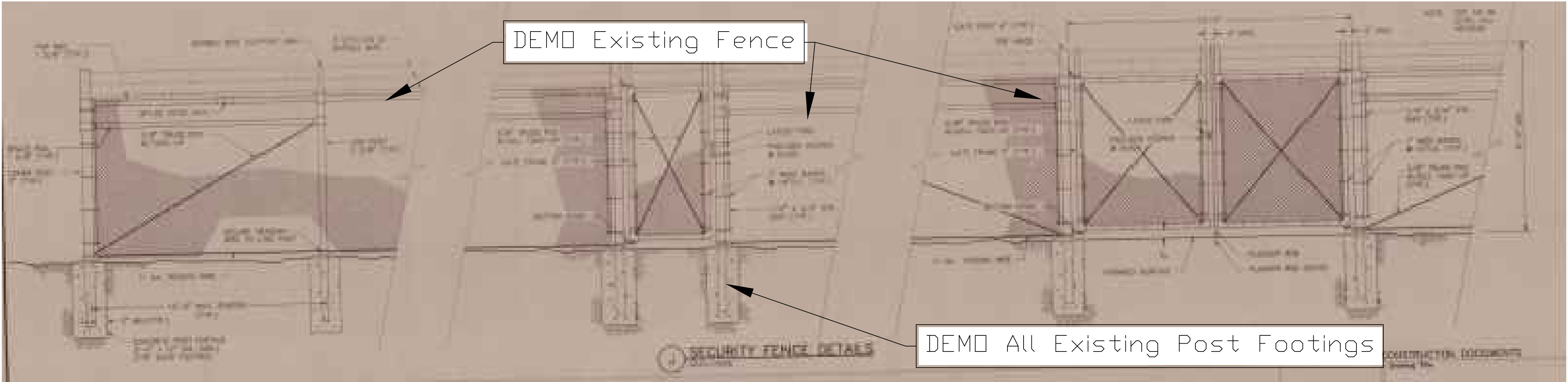
Building Number
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Drawing Number
C1100

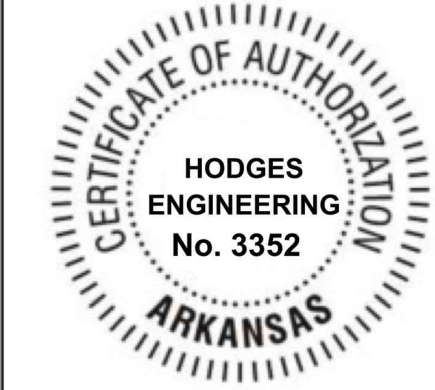
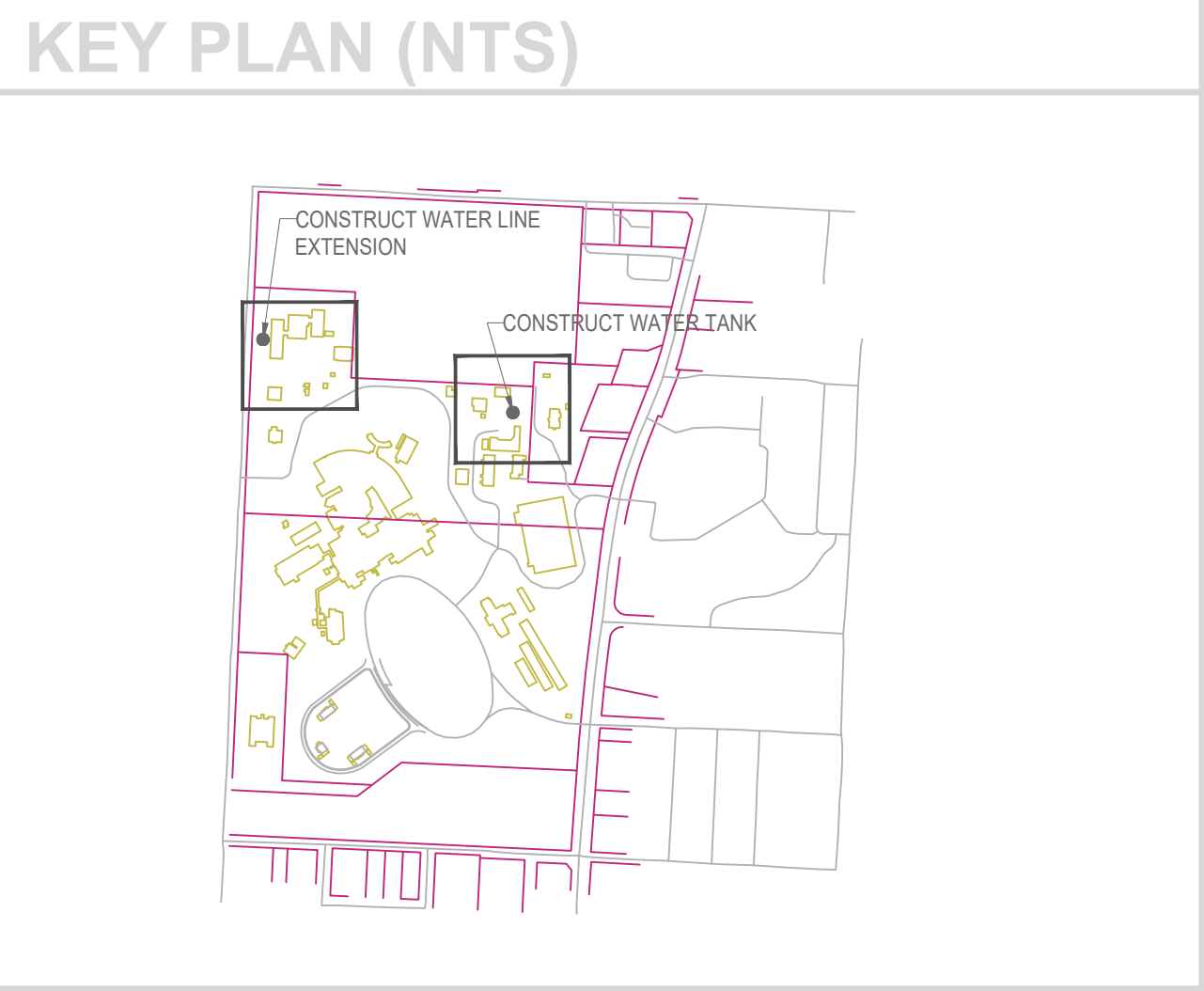
The seal is circular with a double-lined border. The outer border contains the text "CERTIFICATE OF AUTHORIZATION" at the top and "ARKANSAS" at the bottom, separated by small vertical lines. The inner circle contains the text "HODGES ENGINEERING" and "No. 3352" in the center.



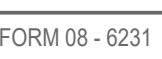
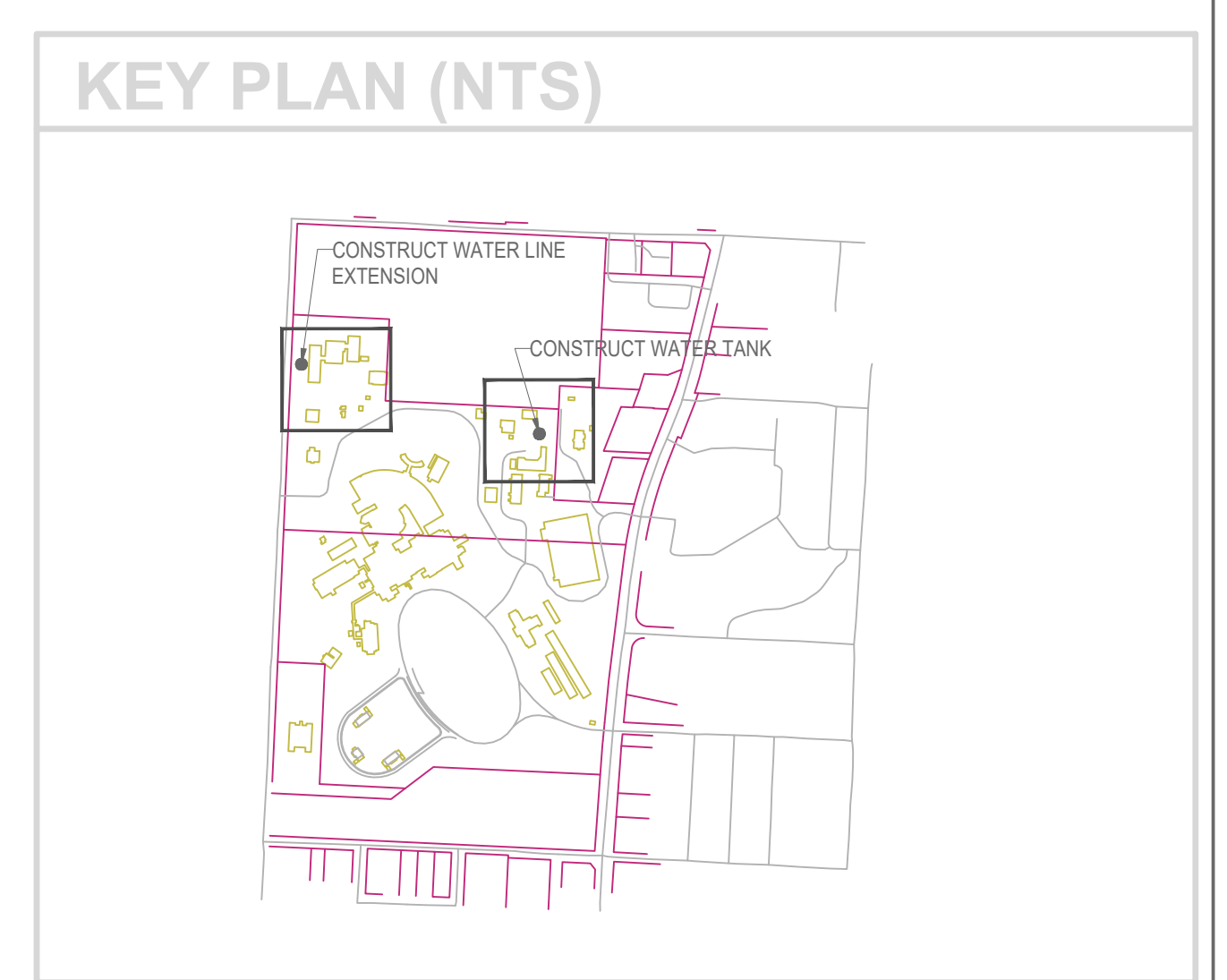
D2 ORIGINAL WATER TOWER PLAN
NTS



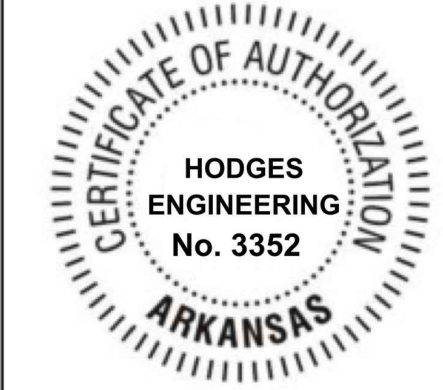
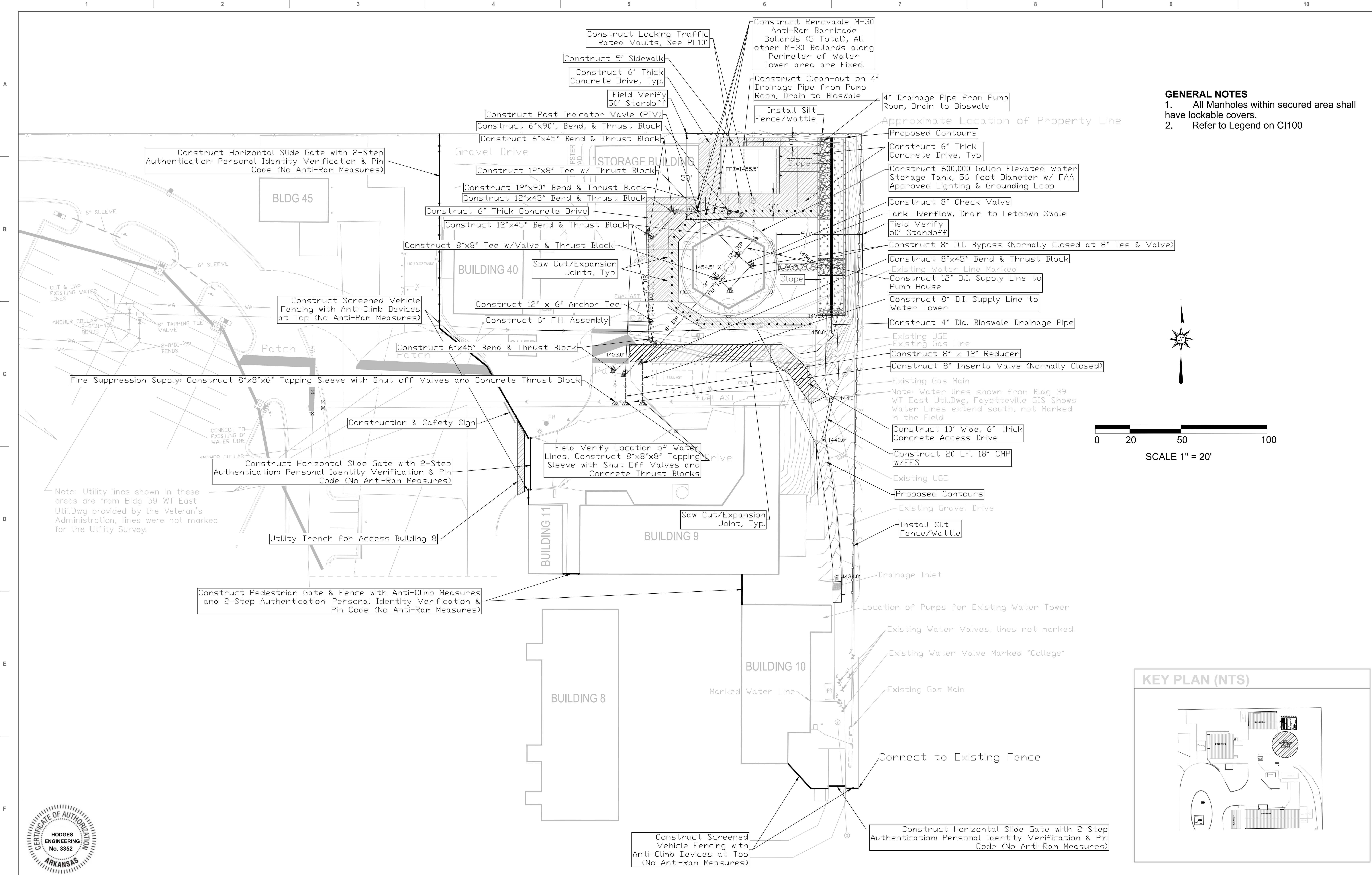
F2 ORIGINAL FENCING PLAN
NTS



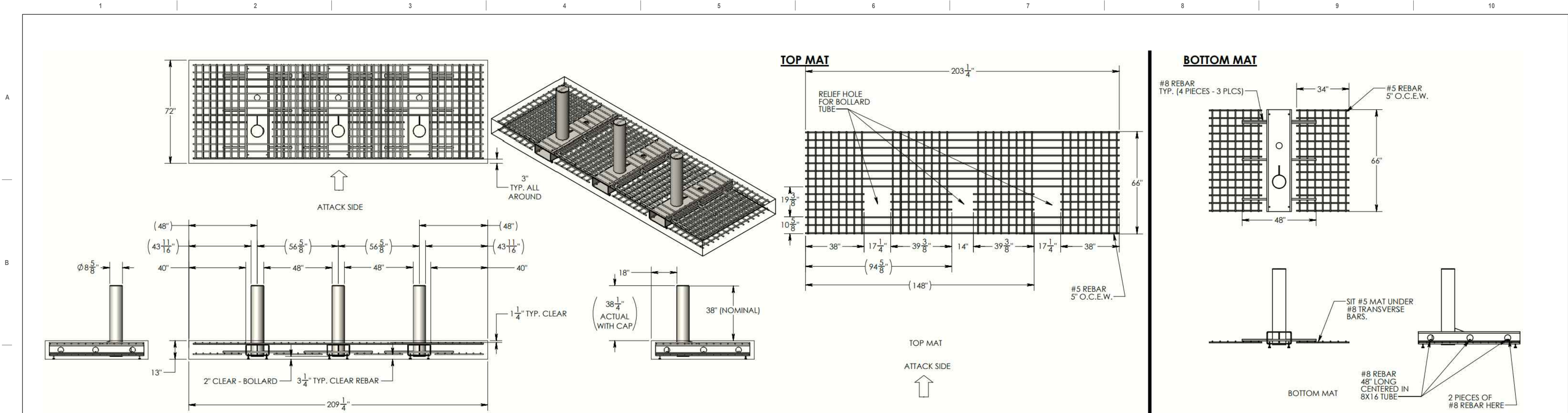
Revisions:	Date:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title DEMOLITION PLAN	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY	Project Number 564-19-101
		FPC CONSULTANTS FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116	SECURITY GRW 19PORPATE DRIVE EXINGTON, KY 40053	Hodges Engineering CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653	Bernhard TME Engineering STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 250	A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jdan@johnsondanforth.com JDA PROJECT #: 2018.001	JD a		Approved: Project Director	FULLY SPRINKLERED	Location FAYETTEVILLE, AR Issue Date 2022.07.15	Building Number . Drawing Number CD102



Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD					Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title SITE PLAN	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY	Project Number 564-19-101								
	 FIRE PROTECTION FPC CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116				 SECURITY GRW IRPORATE DRIVE EXINGTON, KY 40033						 CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72563				 STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 260 JDA PROJECT #: 2018.001				Approved: Project Director		Location FAYETTEVILLE, AR	Building Number .
	Date:														Issue Date 2022.07.15	Checked JCH	Drawn KEH	Drawing Number CU103				

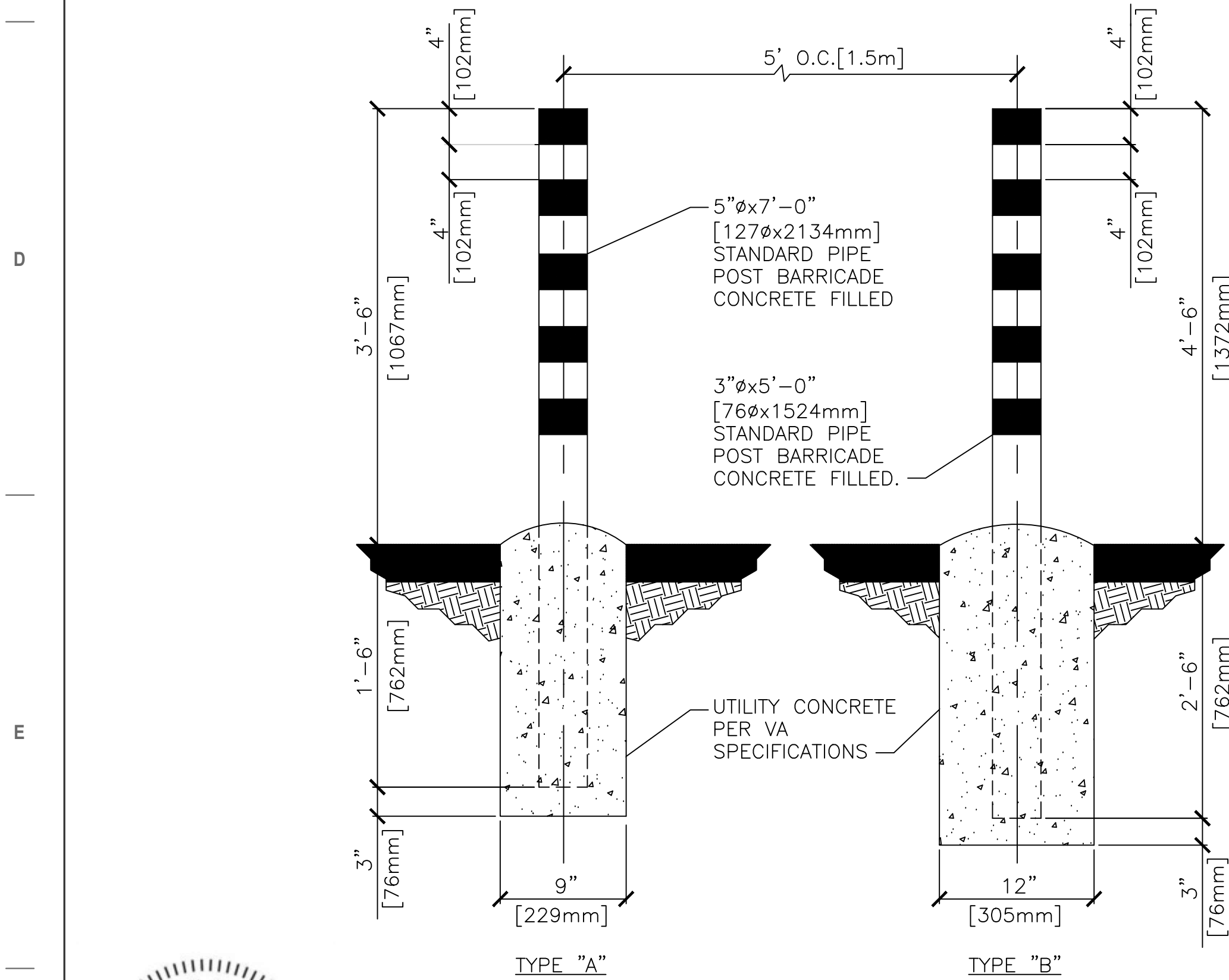


Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management	Drawing Title WATER TOWER AREA & WATER SUPPLY PLAN	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101		
	 FIRE PROTECTION FP&C CONSULTANTS KC, LLC		 SECURITY GRW		 CIVIL ENGINEER HODGES ENGINEERING					 STRUCTURAL ENGINEER BERNHARD TME		Building Number .		
	1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116		1RPORTER DRIVE MOUNTAIN HOME, KY 40053		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72053					BUILDING 2, 1 ALLIED DRIVE SUITE 250		Drawing Number CU104		
Date:	1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116				1RPORTER DRIVE MOUNTAIN HOME, KY 40053		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72053		BUILDING 2, 1 ALLIED DRIVE SUITE 250		JDA PROJECT #: 2018.001		JDA PROJECT #: 2018.001	



C1 M30 REMOVABLE BOLLARD ARRAY
NTS

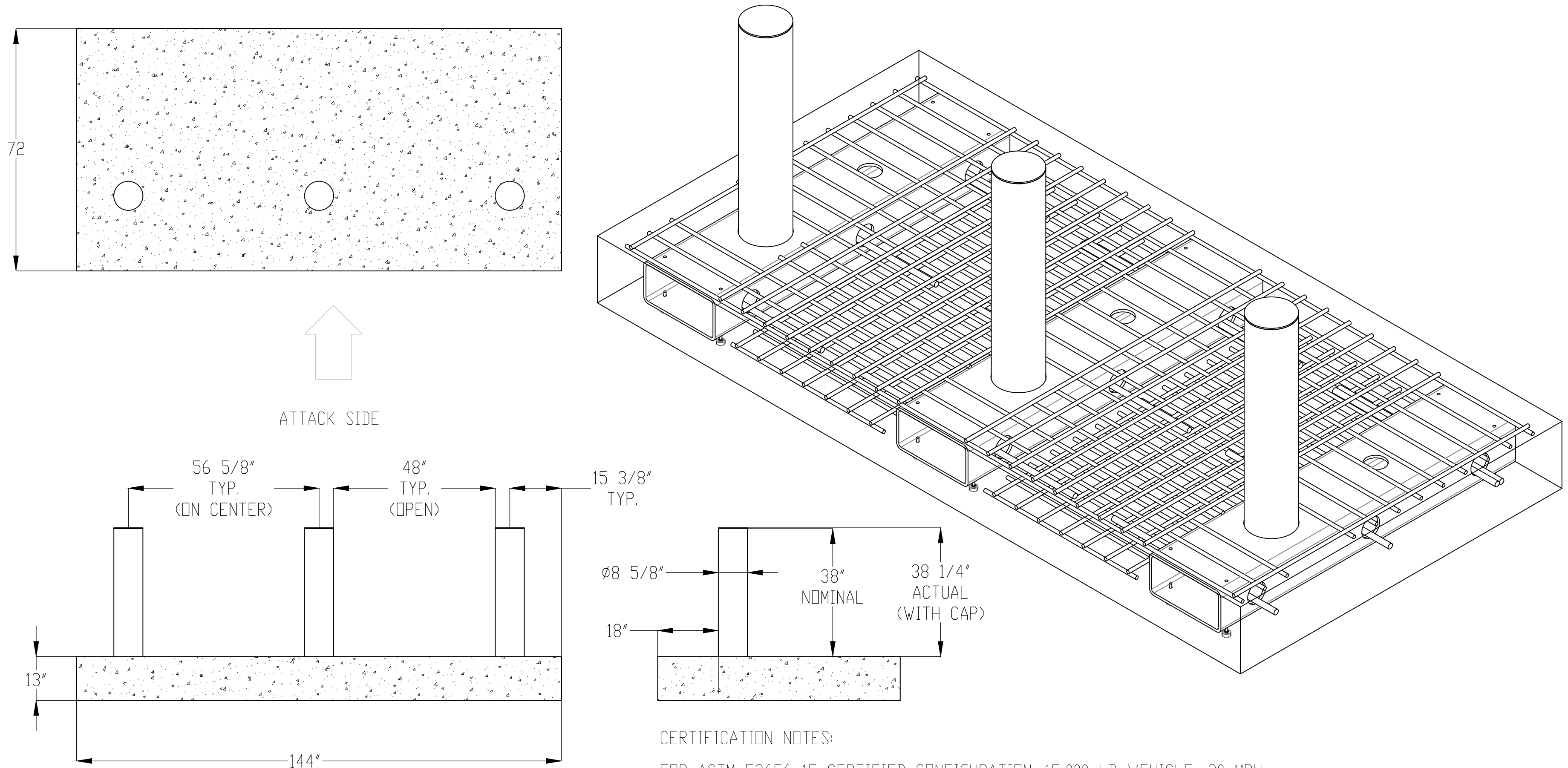
- GENERAL NOTES**
- M30 Bollard Details from Ameristar Perimeter Security USA, Inc.
 - Concrete F'c=4,000 PSI
 - Concrete Bollards from VA TIL



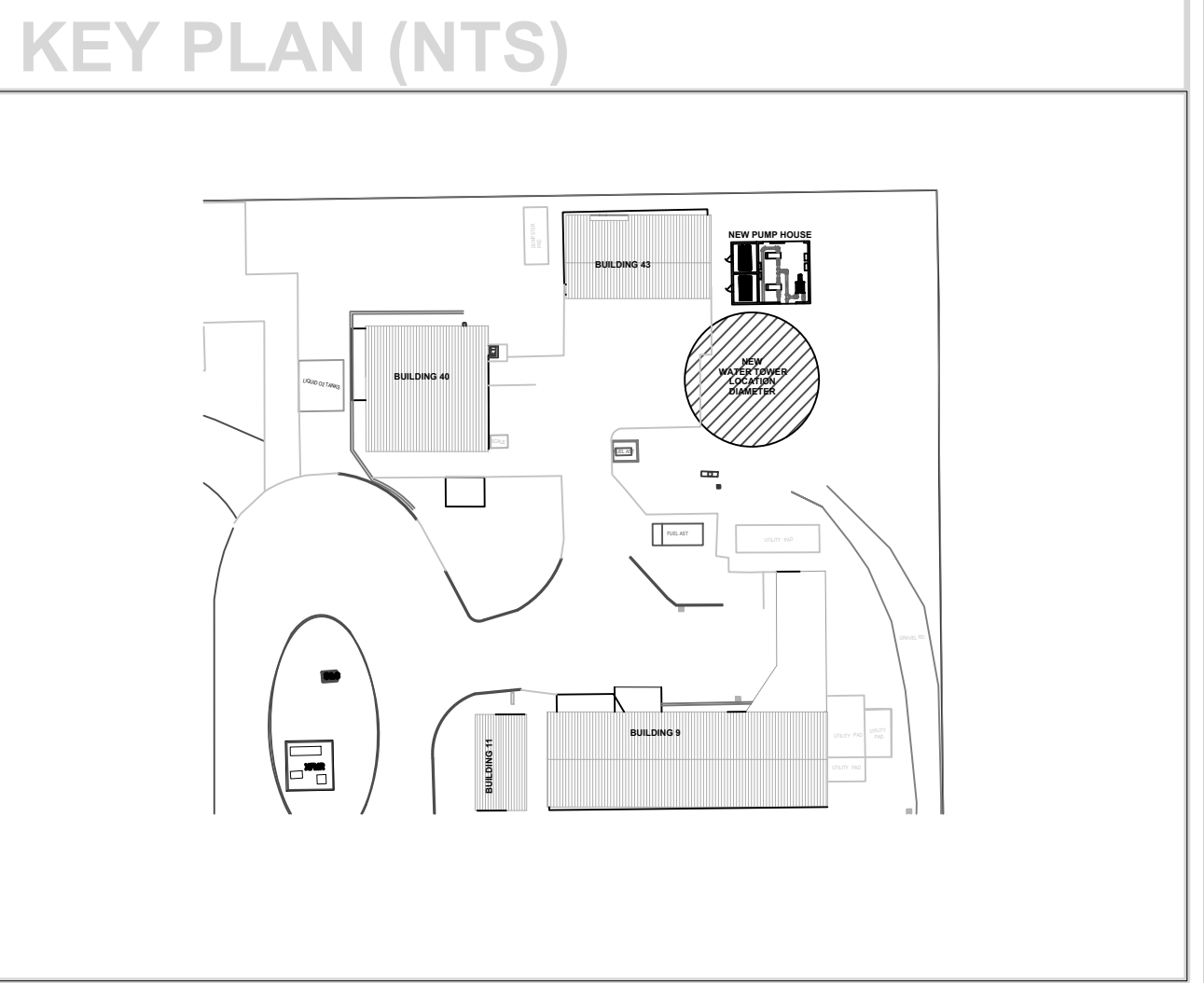
- NOTES:**
- POST BARRICADES SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1). ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS AND STRIPES CONSISTING OF 4" [102mm] BANDS OF YELLOW REFLECTORIZED TAPE SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL.



F1 CONCRETE BOLLARDS
NTS



F5 M30 FIXED BOLLARD ARRAY
NTS

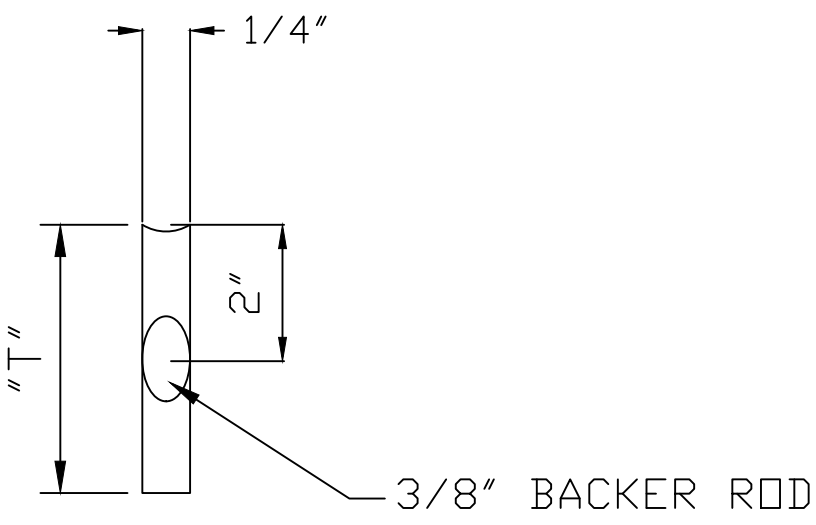


Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD				<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	Drawing Title		Phase		Project Title		Project Number	
	<div><div>FPC CONSULTANTS</div><div>FIRE PROTECTION FP&C CONSULTANTS KC, LLC</div><div>1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</div></div> <div><div></div><div>SECURITY GRW</div><div>1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</div></div> <div><div></div><div>CIVIL ENGINEER HODGES ENGINEERING</div><div>231 SHORELINE DRIVE MOUNTAIN HOME, AR 72053</div></div> <div><div></div><div>STRUCTURAL ENGINEER BERNHARD TME</div><div>BUILDING 2, 1 ALLIED DRIVE SUITE 250</div></div>				<div>A/E JohnsonDanforth & Associates</div> <div>2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212</div> <div>501-404-4811 jda@johnsondanforth.com</div> <div>JDA PROJECT #: 2018.001</div>					BOLLARD DETAILS		CONSTRUCTION DOCUMENTS		CONSTRUCT NEW WATER STORAGE FACILITY		564-19-101	
					<div></div>					Approved: Project Director				Location		Building Number	
	Date:											FULLY SPRINKLERED		FAYETTEVILLE, AR		CU105	
												Issue Date		Checked	Drawn		
												2022.07.15		JCH	KEH		

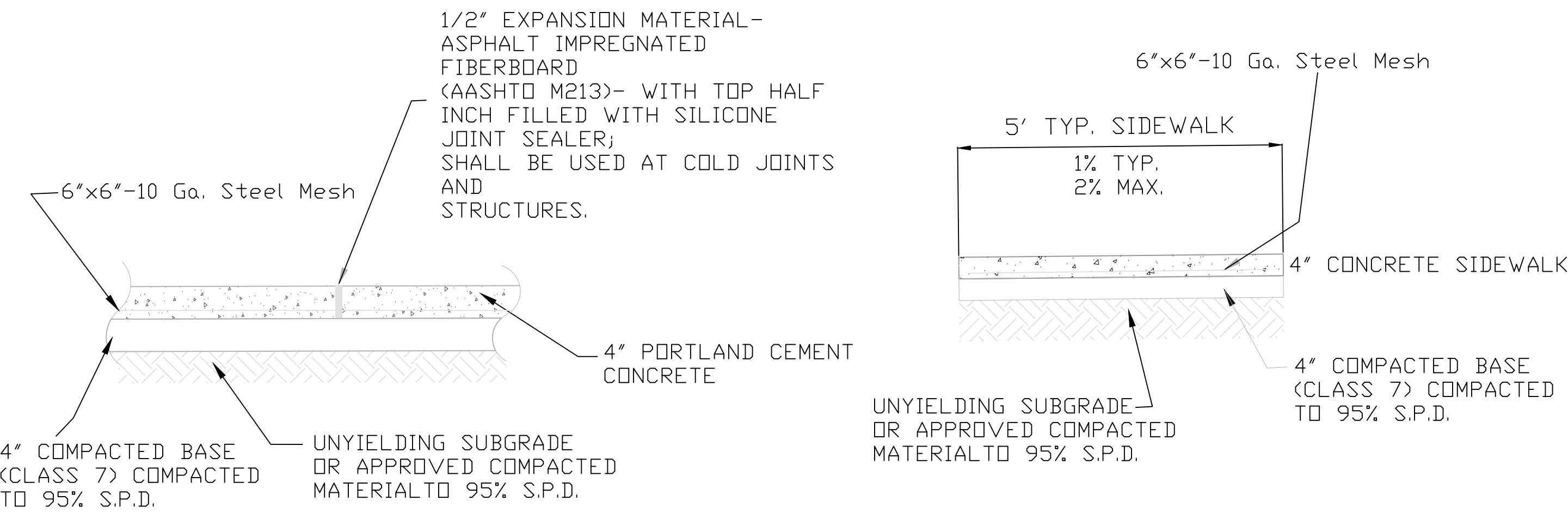
SIDEWALK CONSTRUCTION NOTES:

1. SIDEWALK SHALL HAVE TOOLED OR SAW-CUT TRANSVERSE JOINTS AT INTERVALS EQUAL TO THE WIDTH OF SIDEWALK (5' TYP.). THESE WEAKENED PLANE (CONTRACTION) JOINTS SHALL BE CONSTRUCTED TO 1/4 DEPTH OF THE SIDEWALK THICKNESS AND SHALL BE 1/8" TO 3/8" WIDE.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 p.s.i.
3. CONCRETE SHALL HAVE A MINIMUM CEMENT CONTENT OF 5 1/2 BAGS per Cu. Yd. WITH 5 1/2% ± 1 1/2% AIR ENTRAINMENT.
4. EXPANSION JOINT MATERIAL SHALL BE PREFORMED ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER, AND FILLED WITH SILICONE SEALER TO FINISHED GRADE.
5. ALL COLD JOINTS AND SAW-CUT JOINTS SHALL BE FILLED TO FINISHED GRADE WITH JOINT SEALANT.
6. CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
7. CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SLI" OR AND APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
9. ALL SIDEWALKS SHALL HAVE ONE-HALF INCH ROLLED EDGES AND A BROOMED FINISH.

ONE-QUARTER DEPTH (1 INCH) WEAKENED PLANE JOINTS OR SAW-CUT JOINTS SHALL BE PLACED IN SIDEWALK AT INTERVALS EQUAL TO THE WIDTH OF SIDEWALK (5' TYP.).

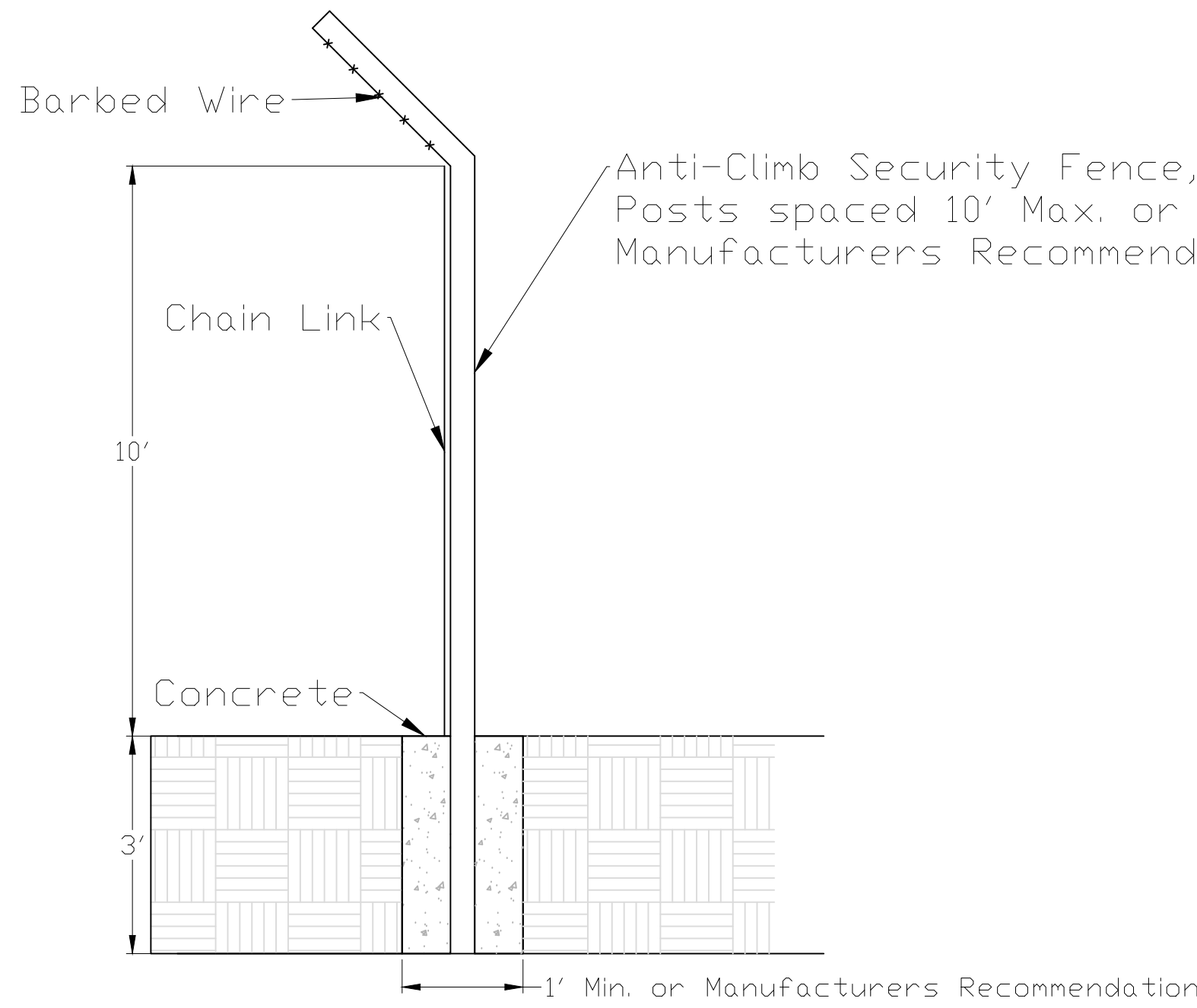


JOINT SEALANT DETAIL

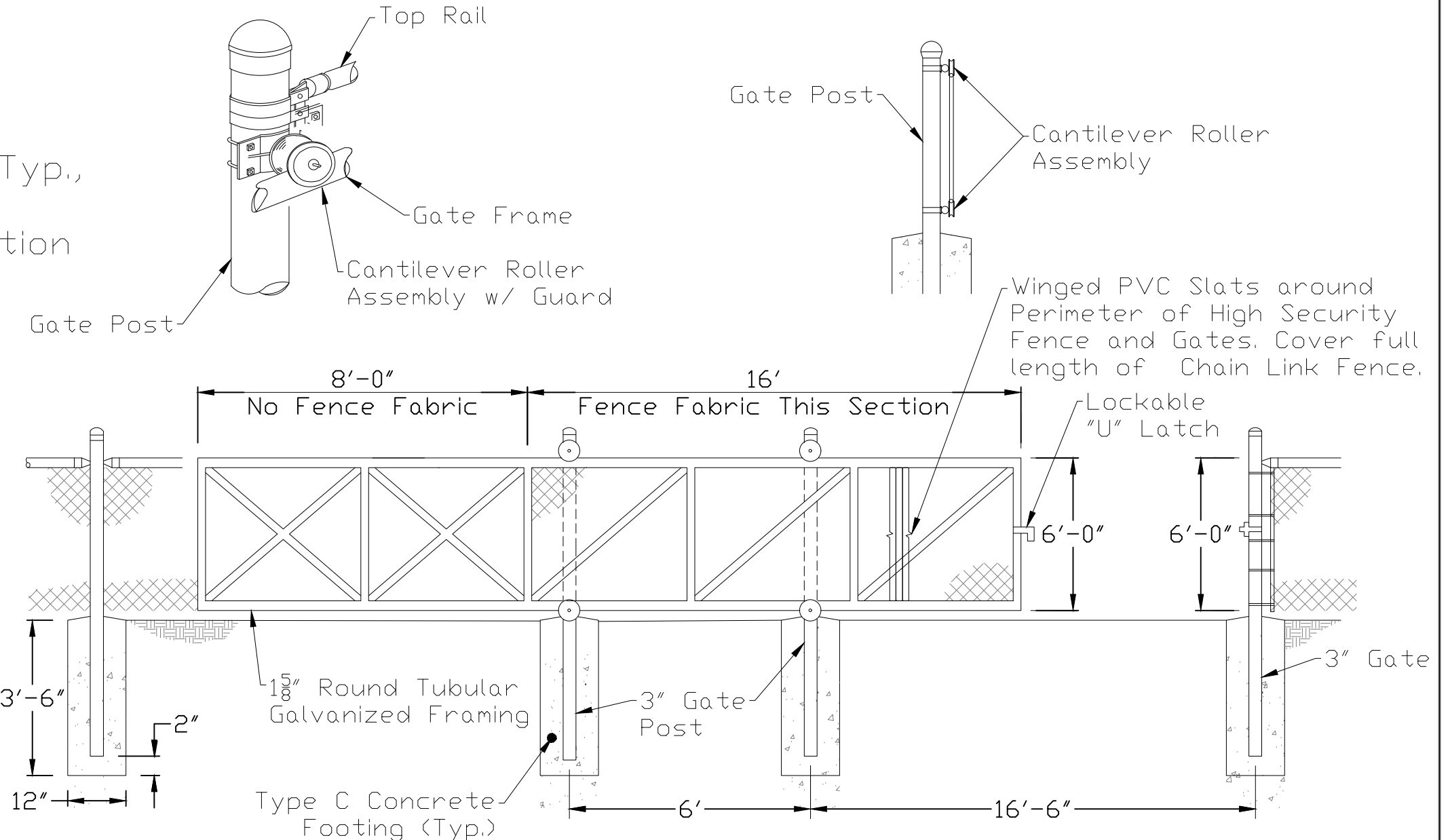


ELEVATION

DETAIL B-B

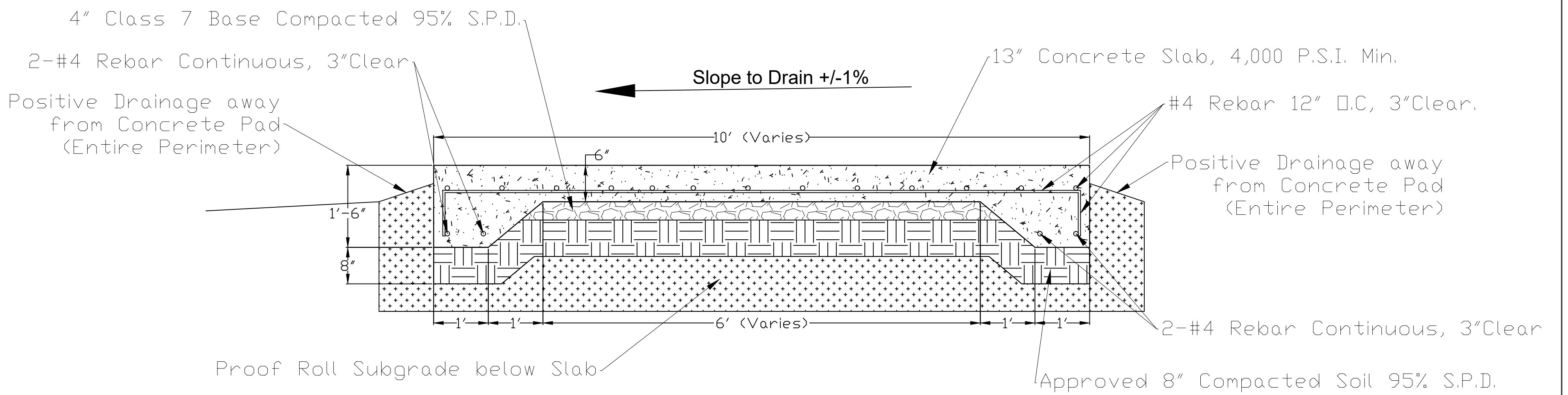


B6 SECURITY FENCE DETAIL
NTS

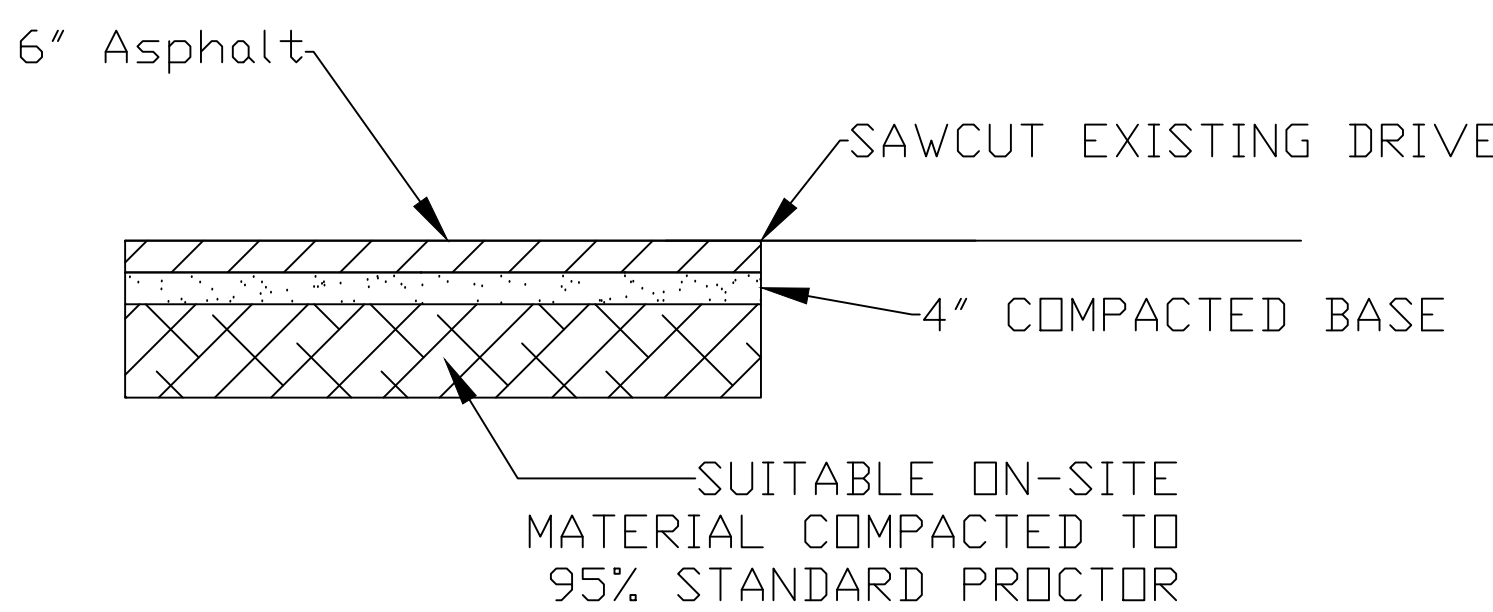


- Notes:
1. Match Existing Chain Link Fence Fabric Color/Coating.
 2. Ties Shall be Hot-Dip Galvanized, .90 oz. Zinc per Sq. Ft.
 3. All Posts, Rails, and Appurtenances shall be Hot-Dip Galvanized.
 4. All Posts and Rails shall conform to Goup 1A: (ASTM F1043) Schedule 40 Steel Pipe, ASTM F Regular Grade (30,000 PSI Yield).
 5. Fencing System is Designed to withstand a Wind Speed of 105 MPH.
 6. Coordinate Post Locations with Proposed Utilities during Construction.
 7. Privacy Slat Color to be Selected by Owner.

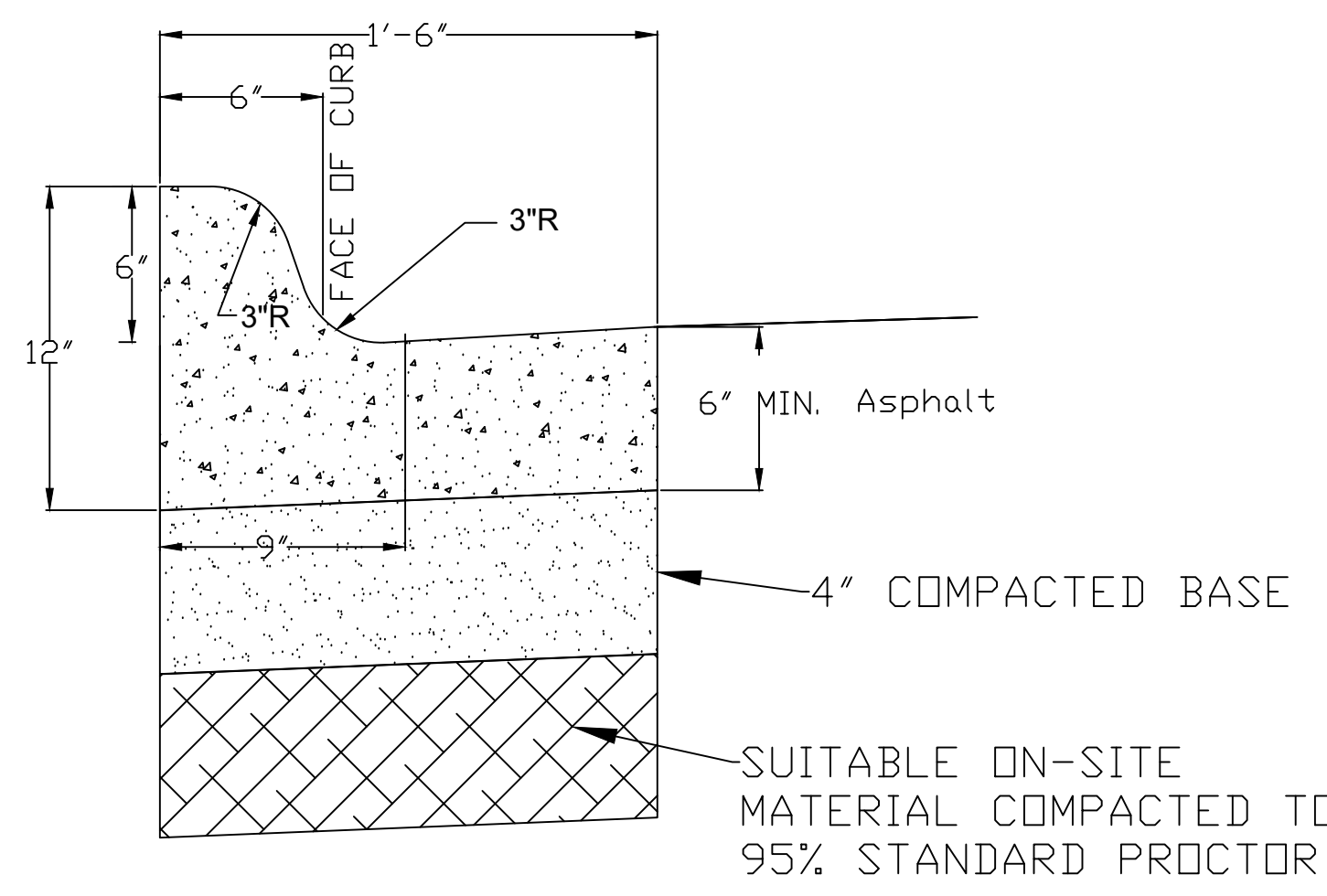
C8 SECURITY GATE DETAIL
NTS



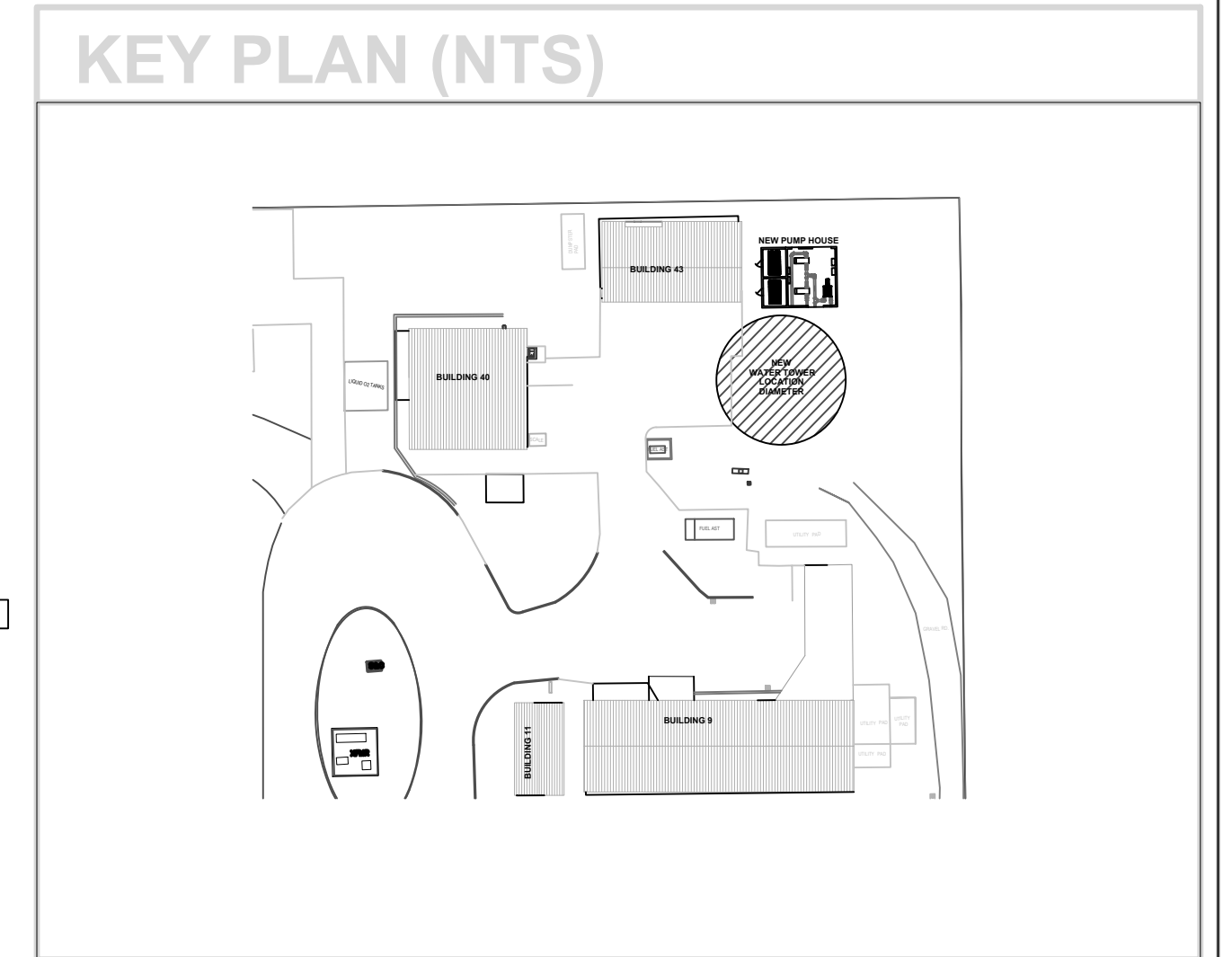
D7 CONCRETE DRIVE SECTION
NTS



F5 ASPHALT PATCH
NTS



F7 CURB DETAIL
NTS



F1 SIDEWALK DETAIL
NTS

Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title SIDEWALK, SECURITY FENCE, CONCRETE, AND ASPHALT DETAILS	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY	Project Number 564-19-101
	Date:	 FIRE PROTECTION FP& CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116	 SECURITY GRW 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116	 CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72053	 STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 250	 A/E JohnsonDanforth & Associates 2200 N. RODNEY PARKWAY ROAD SUITE 210 LITTLE ROCK, AR 72212 901-404-4811 jdan@johnsondanforth.com JDA PROJECT #: 2018.001		Approved: Project Director	FULLY SPRINKLERED	Location FAYETTEVILLE, AR	Drawing Number CU106

A

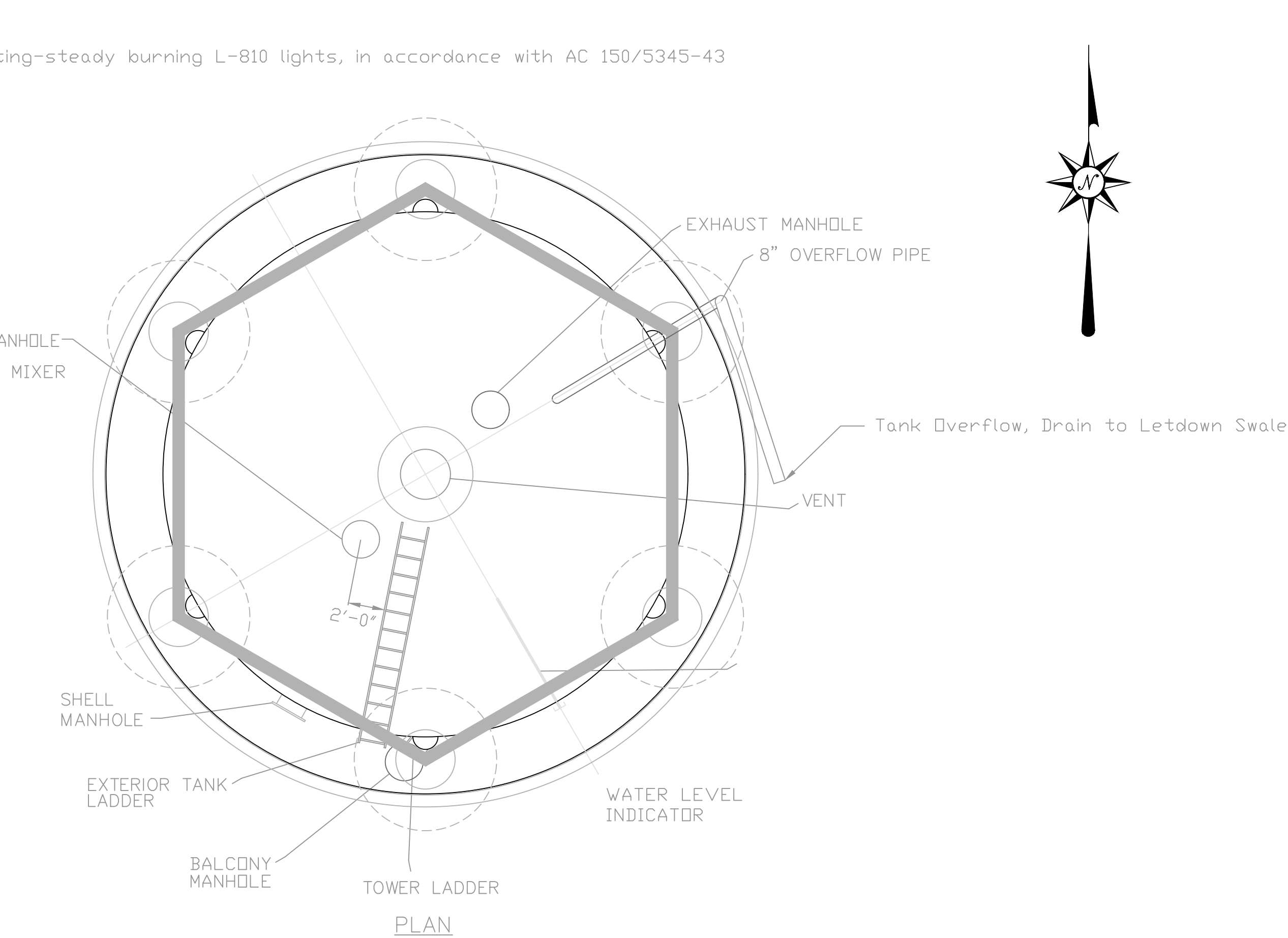
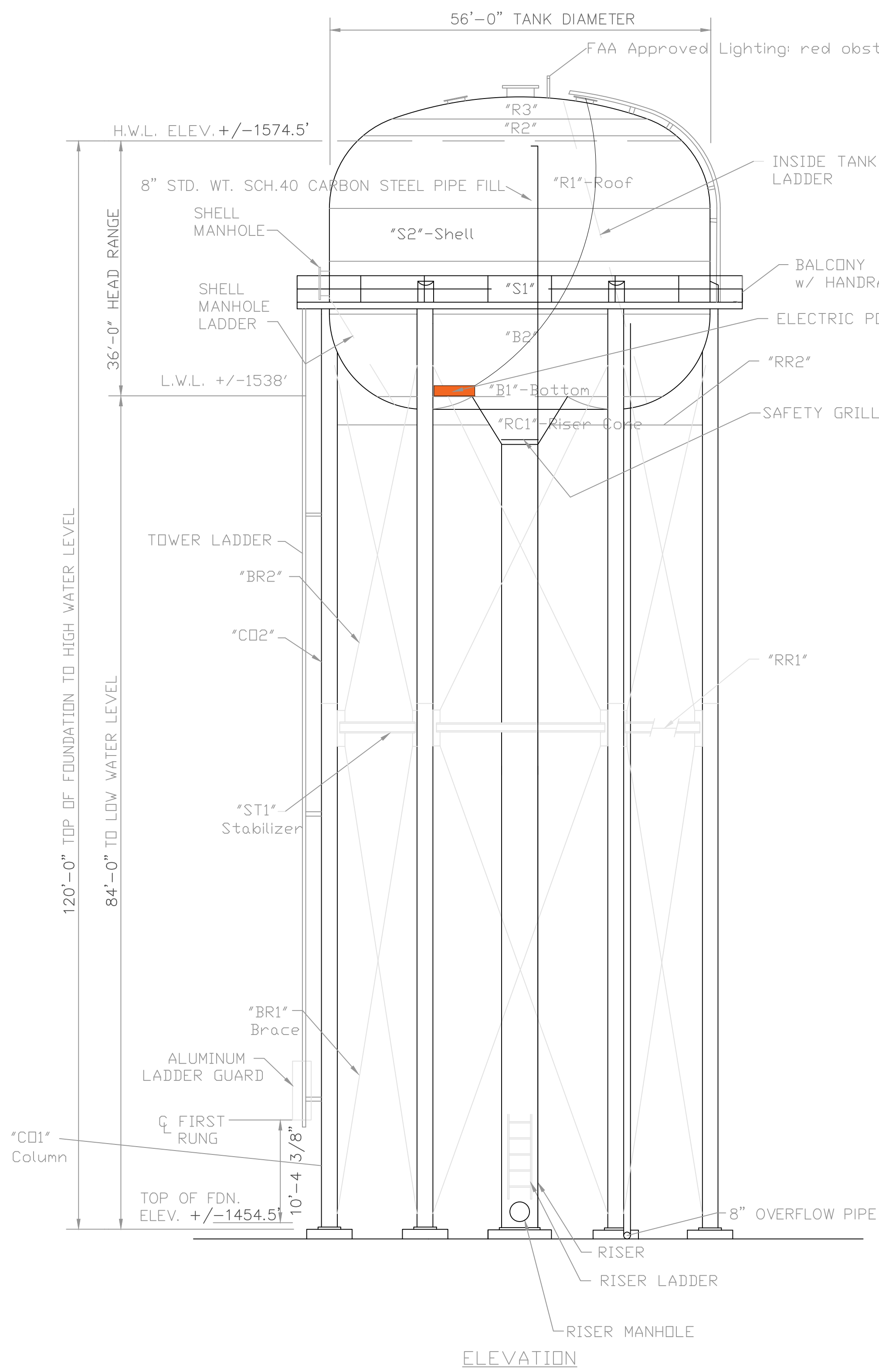
B

C

D

E

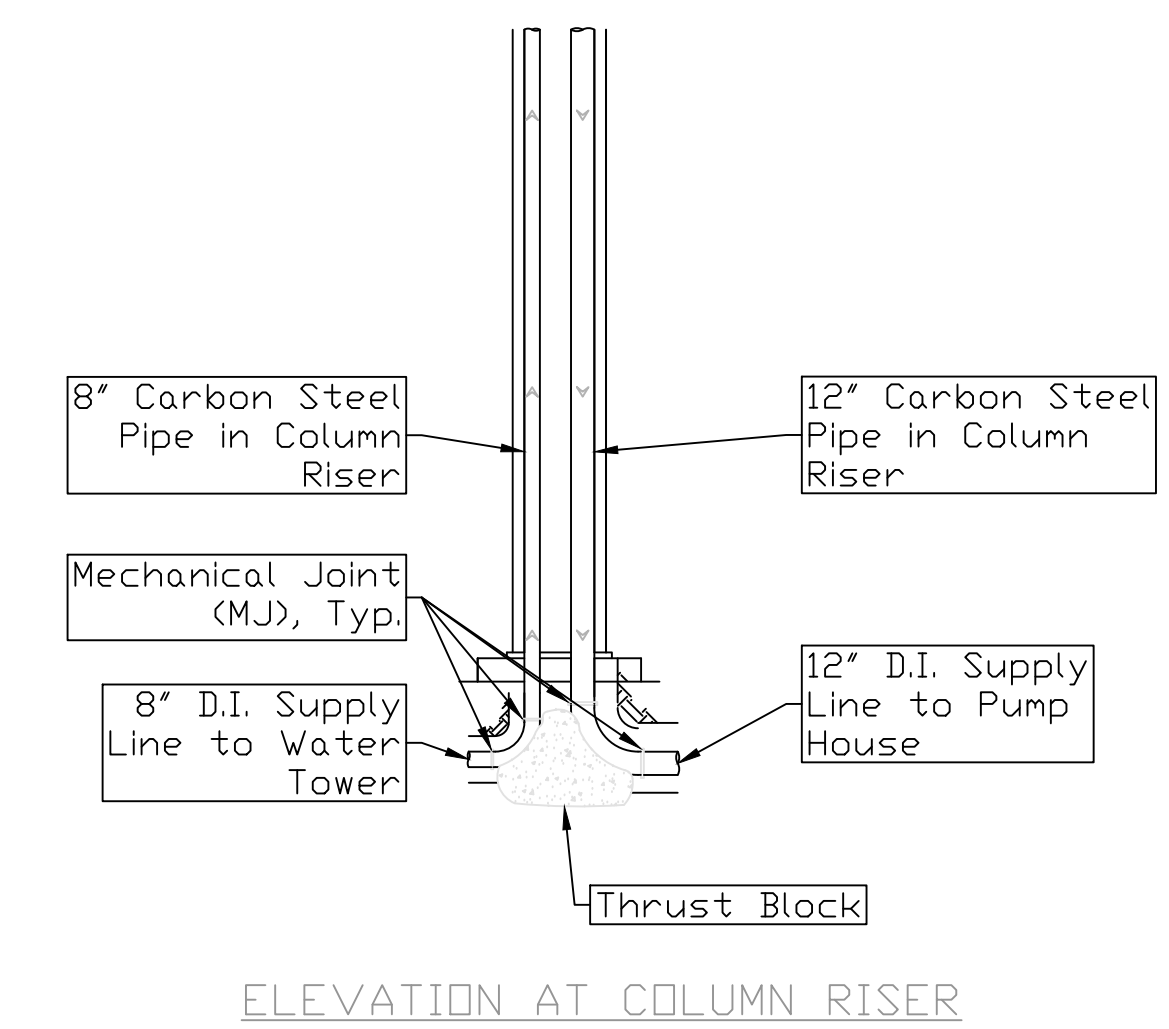
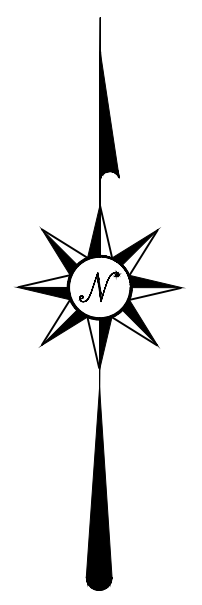
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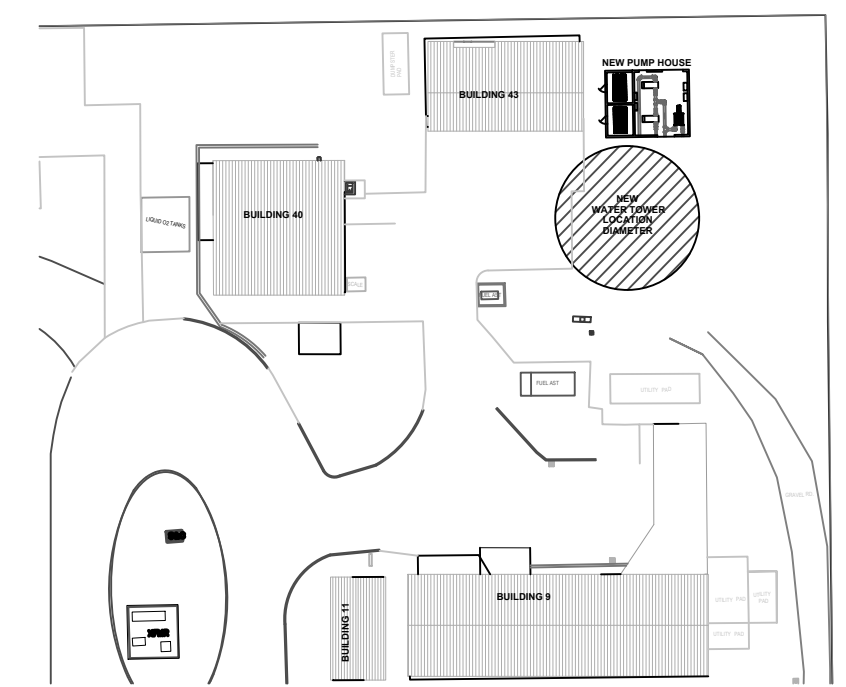
DESIGN NOTES
TANK & TOWER DESIGNED IN ACCORDANCE WITH AWWA D100-11 AND THE PROJECT PLANS AND SPECIFICATIONS. INSTALL & CONNECT NEW PUMP LEVEL MONITORING SYSTEM TO THE VA B.A.S.

DESIGN LOADS (AWWA D100-11)
BASIC WIND SPEED: 115 MPH SNOW LOAD: 5 PSF
I = 1.15
SEISMIC: $S_s = 0.175$ $I_e = 1.5$
 $S_1 = 0.091$ IBC/VA Risk Cat.IV
SITE CLASS D VA Hazard Area Moderate Low
CORROSION ALLOWANCE: 0.1"

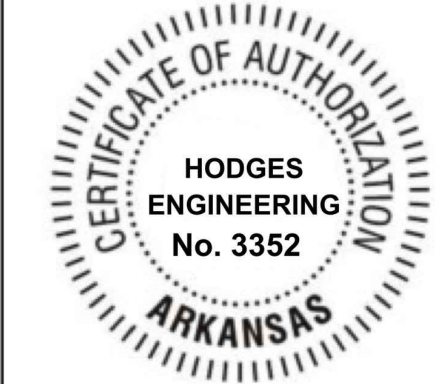
MATERIAL
STEEL PLATE: ASTM A283 GR. C; ASTM A36
STRUCTURAL STEEL: ASTM A36; ASTM A53 GR. B
BRACE/RISER RODS: ASTM A36
WING & CLEVIS PLATES: ASTM A572-50
RISER ROD & STRUT CLIPS: ASTM A572-50
LADDER RUNGS: ASTM A706
RISER ROD BOLTS: ASTM A325
BOLTS (U.N.O.): ASTM A307
GROUT: QUIKRETE N-S GROUT



KEY PLAN (NTS)



E2 WATER TANK DETAILS
NTS

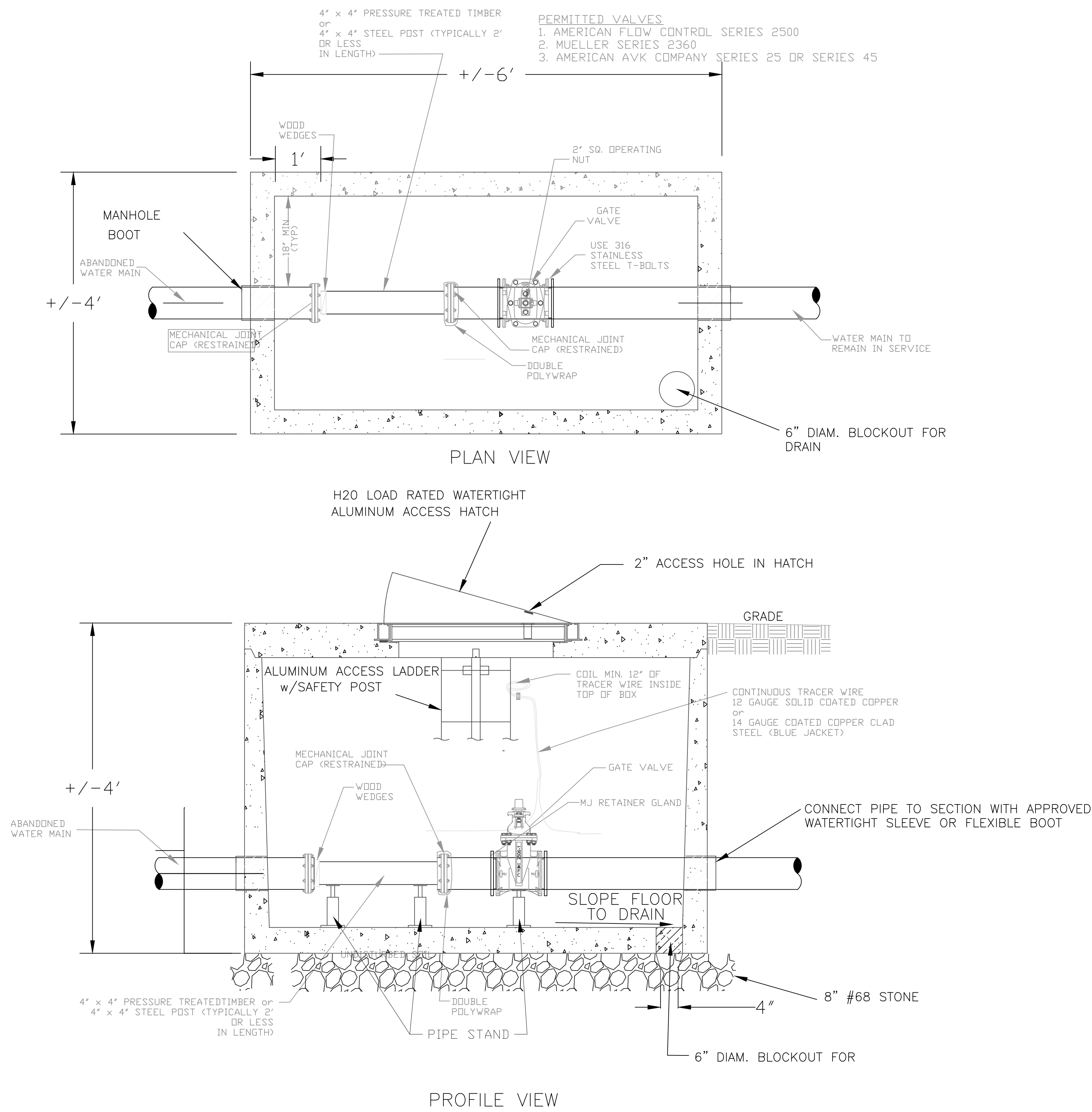


Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	Drawing Title WATER TOWER DETAILS		Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101										
	<div><div>FPC CONSULTANTS</div><div>FIRE PROTECTION FP&C CONSULTANTS KC, LLC</div><div>1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</div></div>		<div><div>engineering architecture graphics</div><div>SECURITY GRW</div><div>IRPORATE DRIVE EXINGTON, KY 40503</div></div>		<div><div>Hodges Engineering Strategic, Service & Solution</div><div>CIVIL ENGINEER HODGES ENGINEERING</div><div>231 SHORELINE DRIVE MOUNTAIN HOME, AR 72053</div></div>			<div><div>Bernhard TME Engineering</div><div>STRUCTURAL ENGINEER BERNHARD TME</div><div>BUILDING 2, 1 ALLIED DRIVE SUITE 250</div></div>		<div><div>A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jdan@johnsondanforth.com JDA PROJECT #: 2018.001</div><div></div></div>		<div><div>STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 8289 KEVIN E. HODGES</div></div>		Approved: Project Director		FULLY SPRINKLERED	Location FAYETTEVILLE, AR		Issue Date 2022.07.15		Checked JCH	Drawn KEH	Drawing Number CU107
	Date:																						

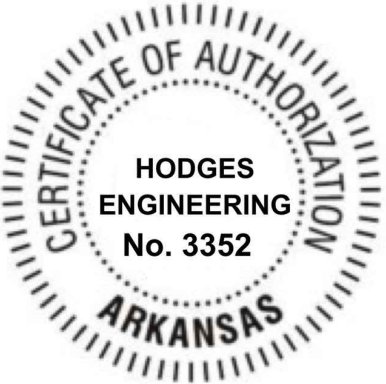
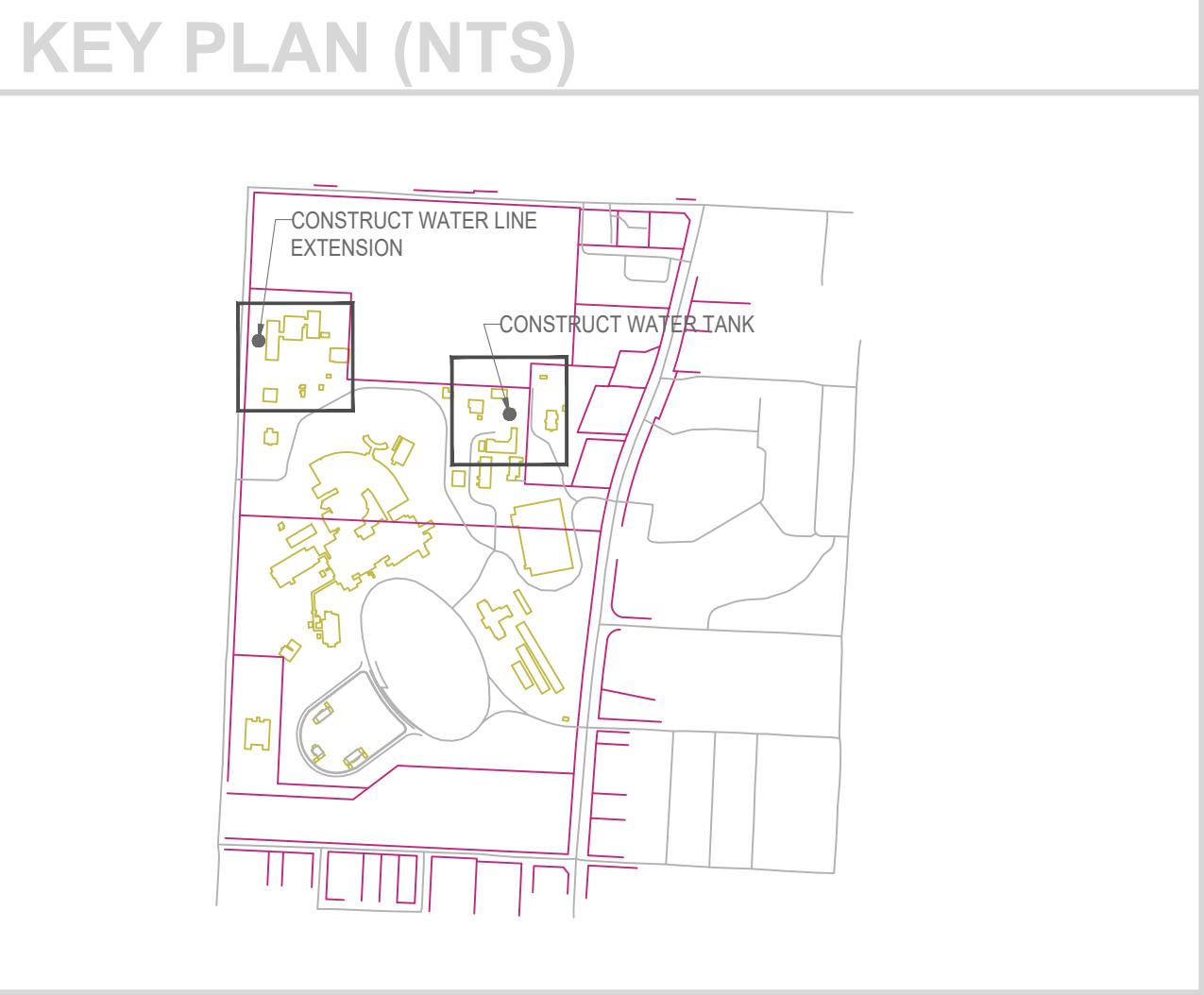
1. Refer to Legend on CI100



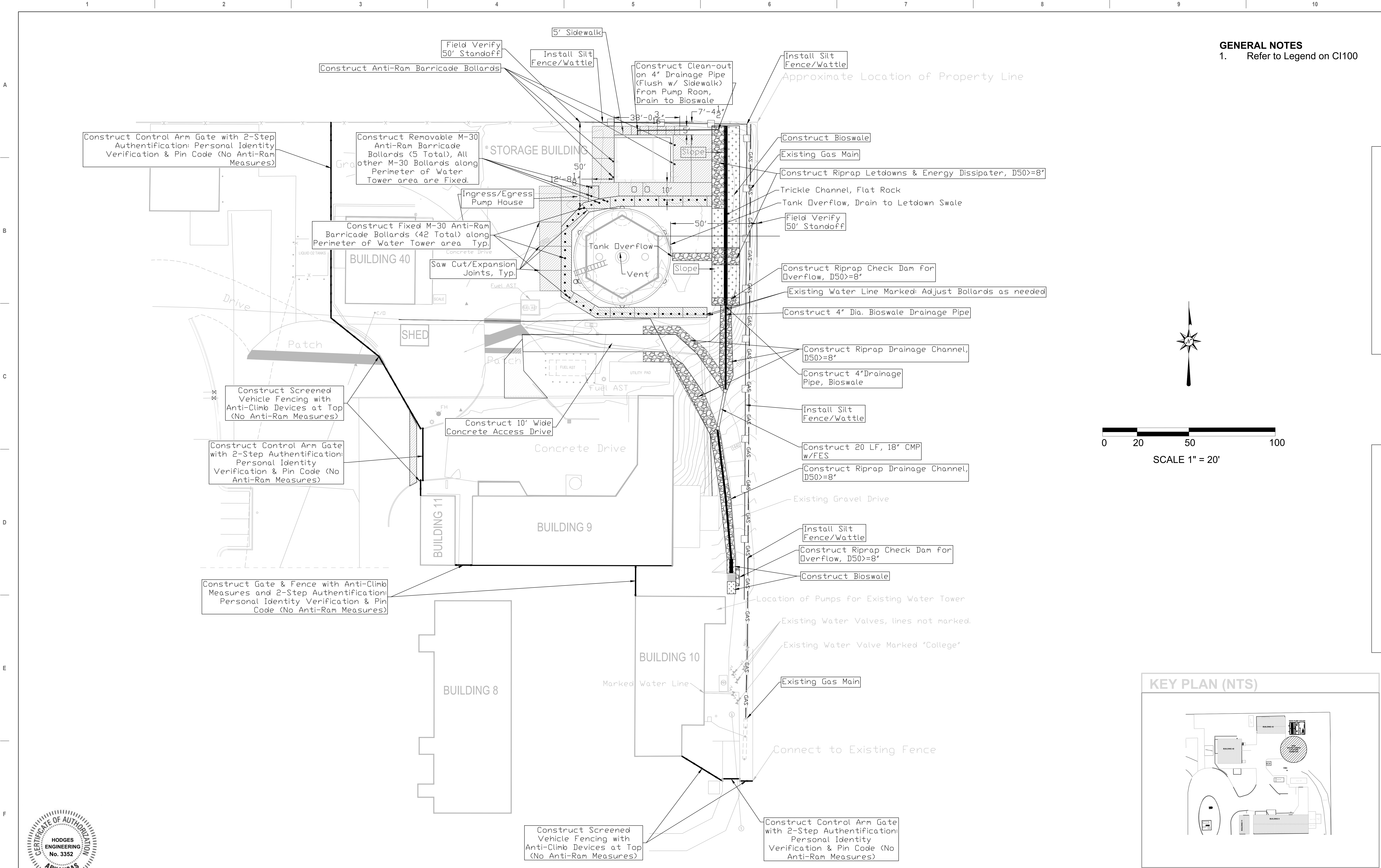
JA FORM 08 - 6231									
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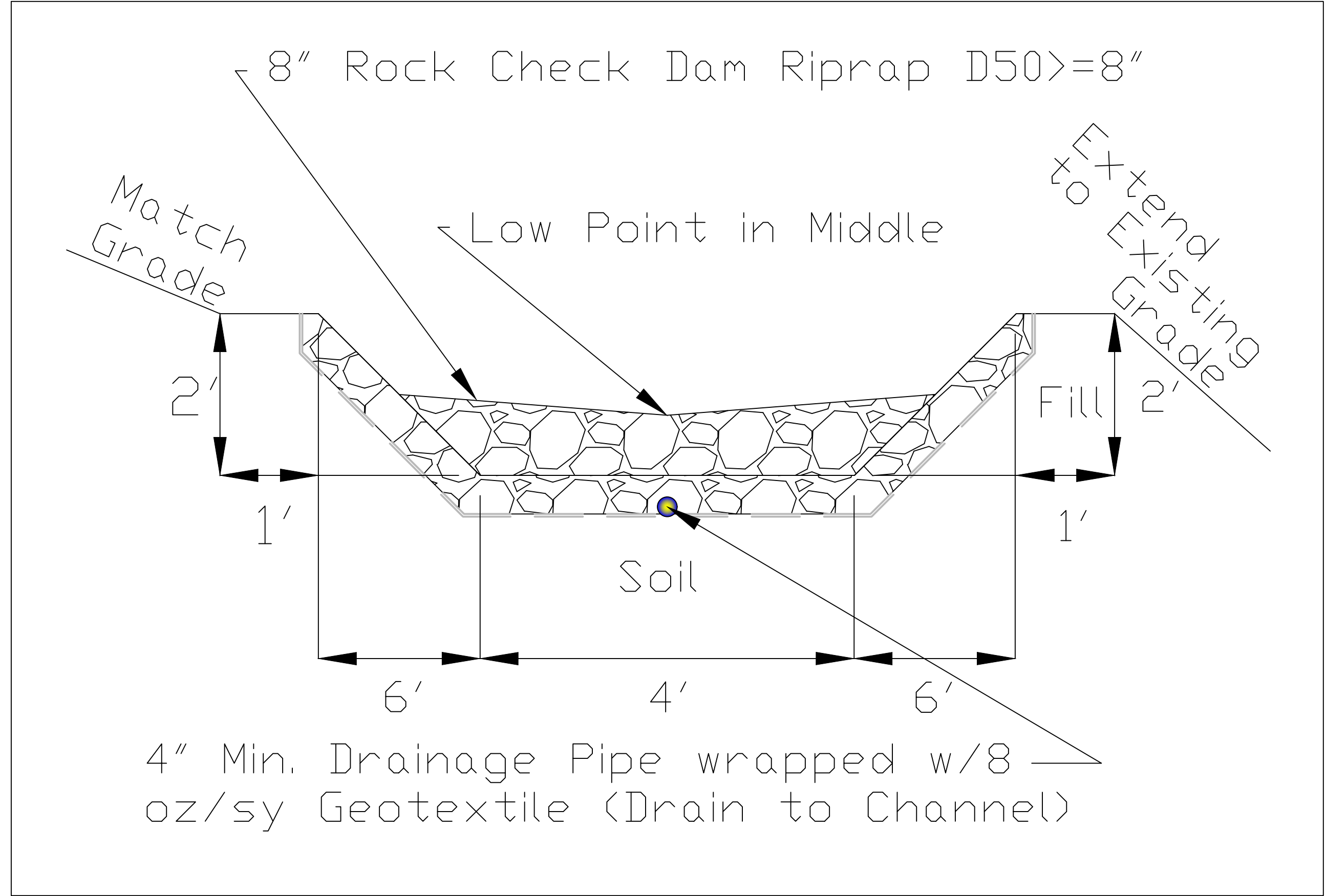


D6 CONCRETE WATER LINE VAULT (INSTALL VALVE, CAP, AND ABANDONED LINE TO OLD WATER TOWER)
NTS

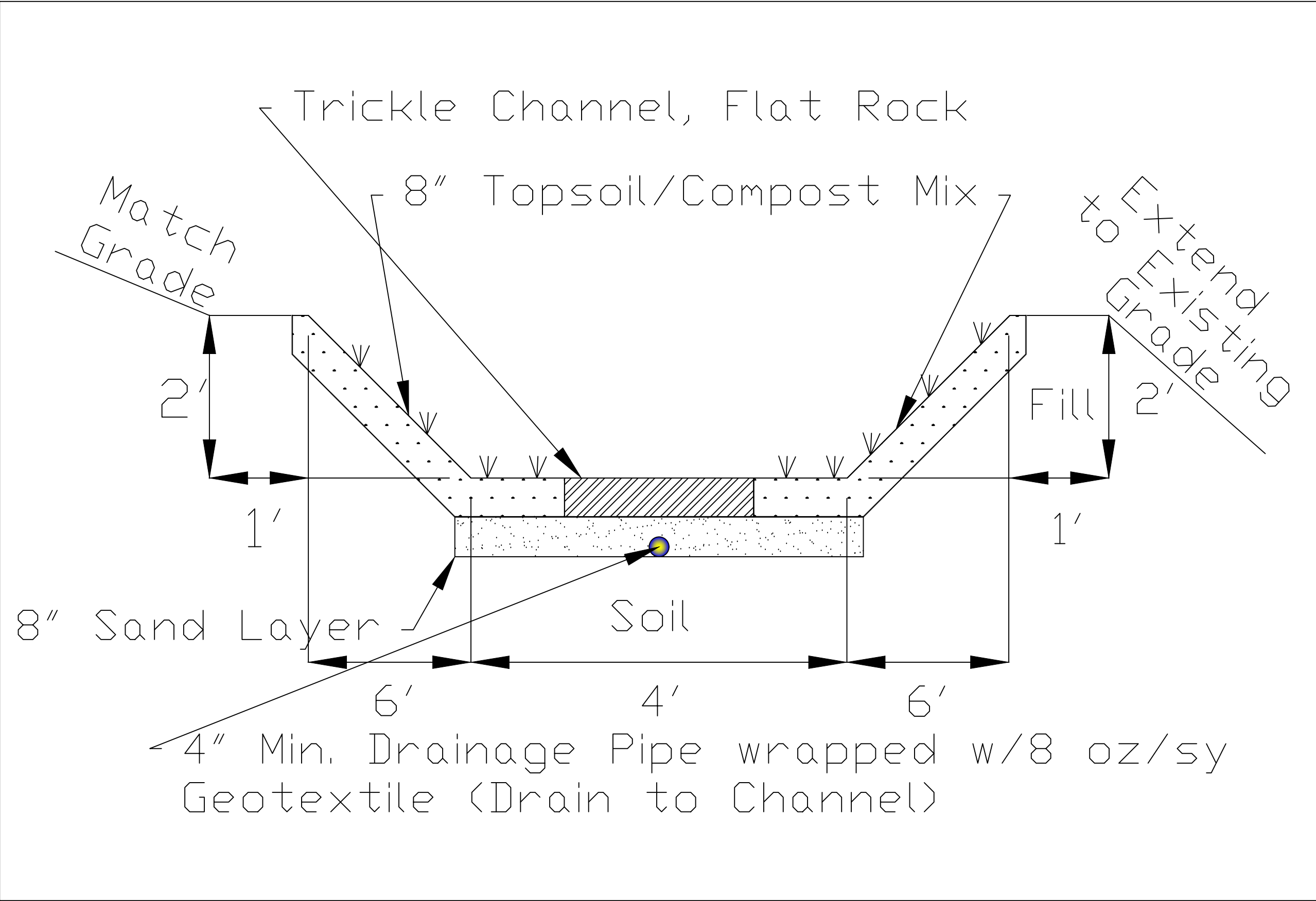


Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	Drawing Title WATER VAULT DETAILS		Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101		
	<div>FPC CONSULTANTS</div> <div>FIRE PROTECTION FP&C CONSULTANTS KC, LLC</div>		<div></div> <div>SECURITY GRW</div>		<div></div> <div>CIVIL ENGINEER HODGES ENGINEERING</div>			<div></div> <div>STRUCTURAL ENGINEER BERNHARD TME</div>				Building Number .			
	1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116		19PORPATE DRIVE EXINGTON, KY 40303		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653			BUILDING 2, 1 ALLIED DRIVE SUITE 250				Drawing Number			
												CU110			
	Date:									Approved: Project Director		FULLY SPRINKLERED		Location FAYETTEVILLE, AR	
										Issue Date 2022.07.15		Checked JCH		Drawn KEH	

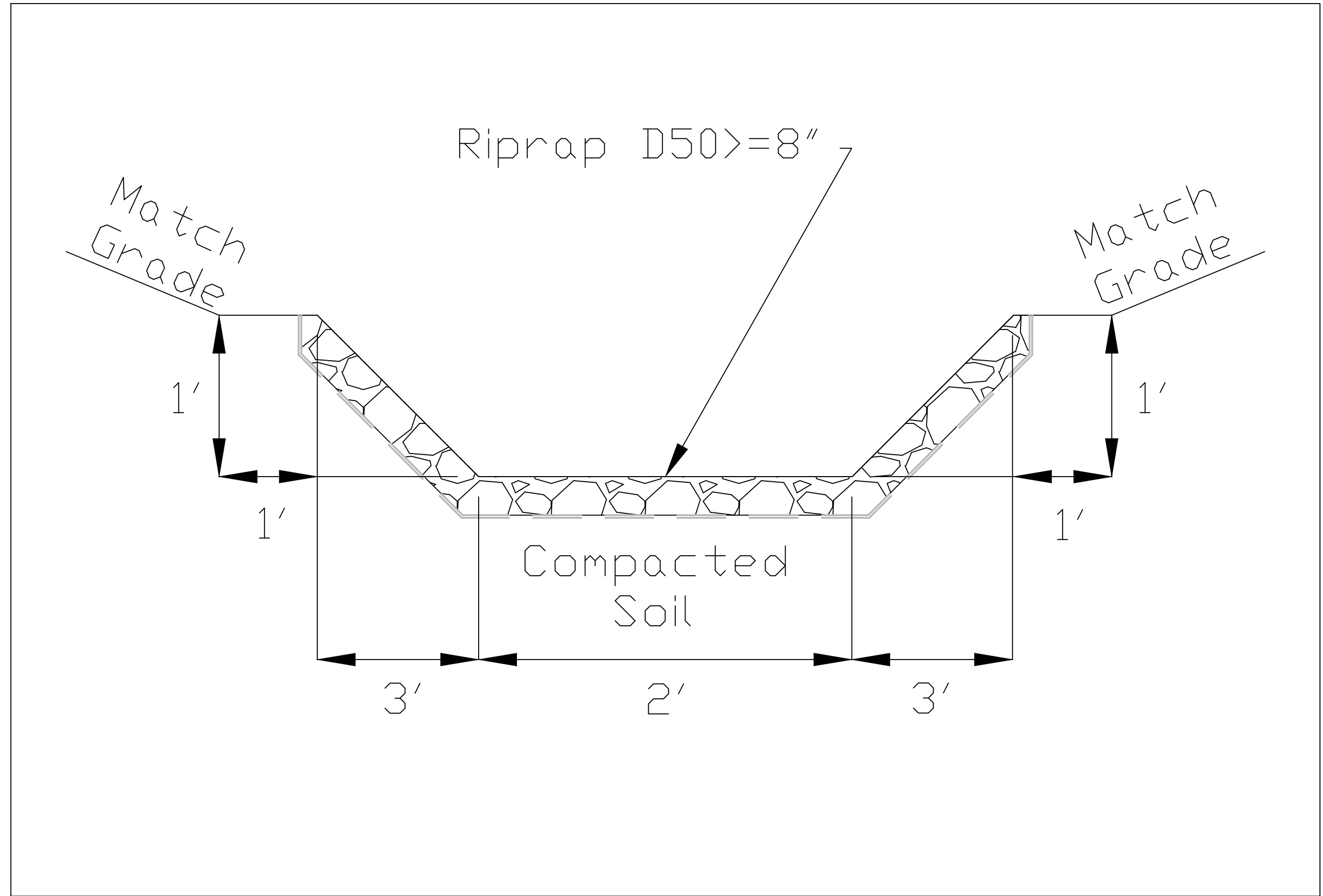




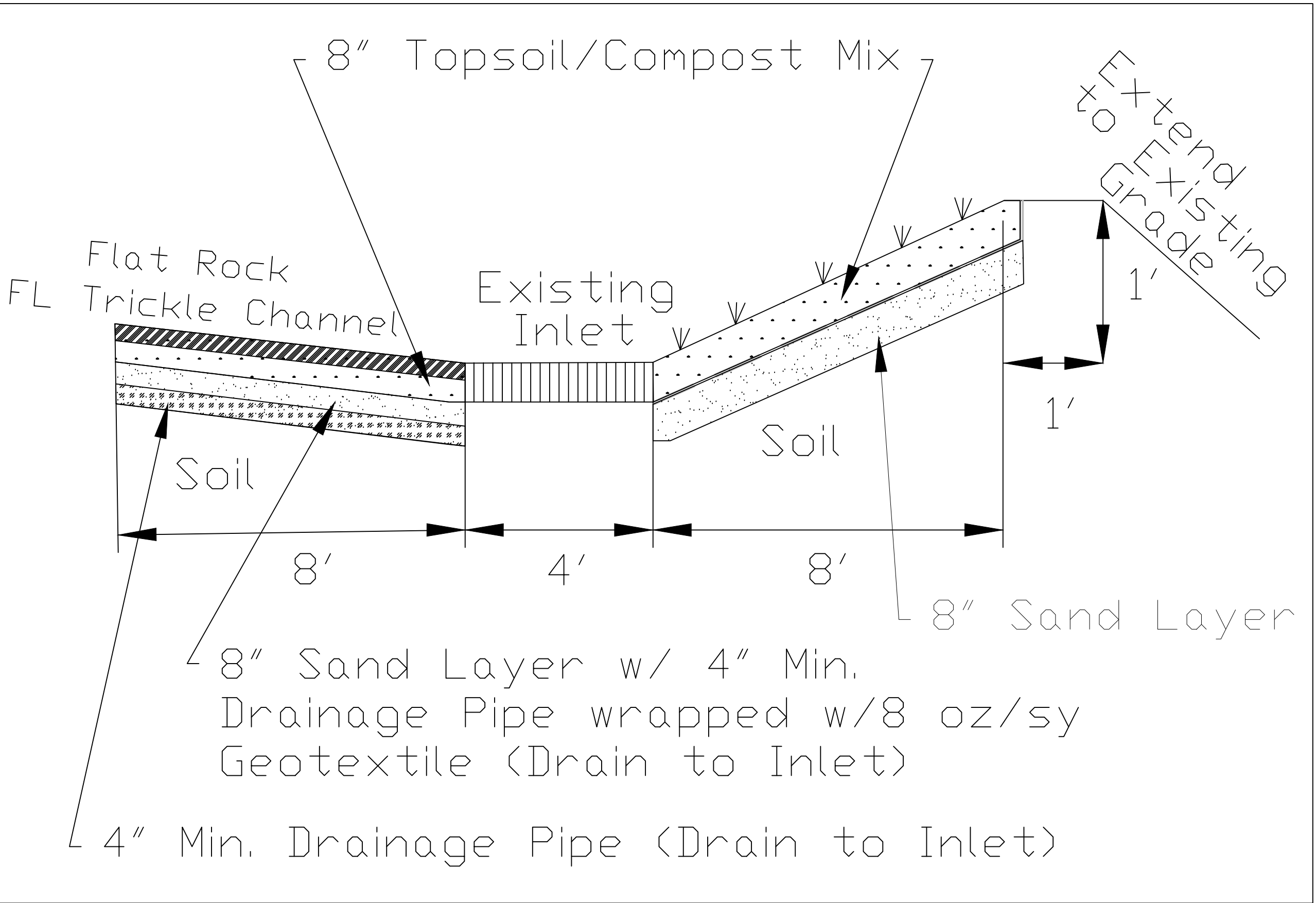
C1 Bioswale Check Dam Detail
NTS



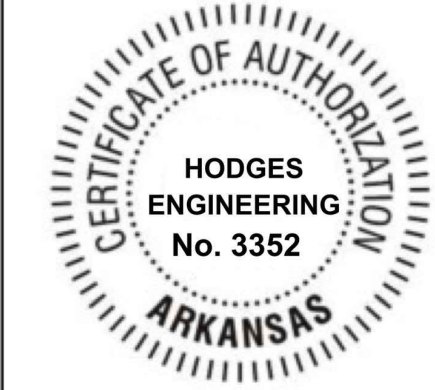
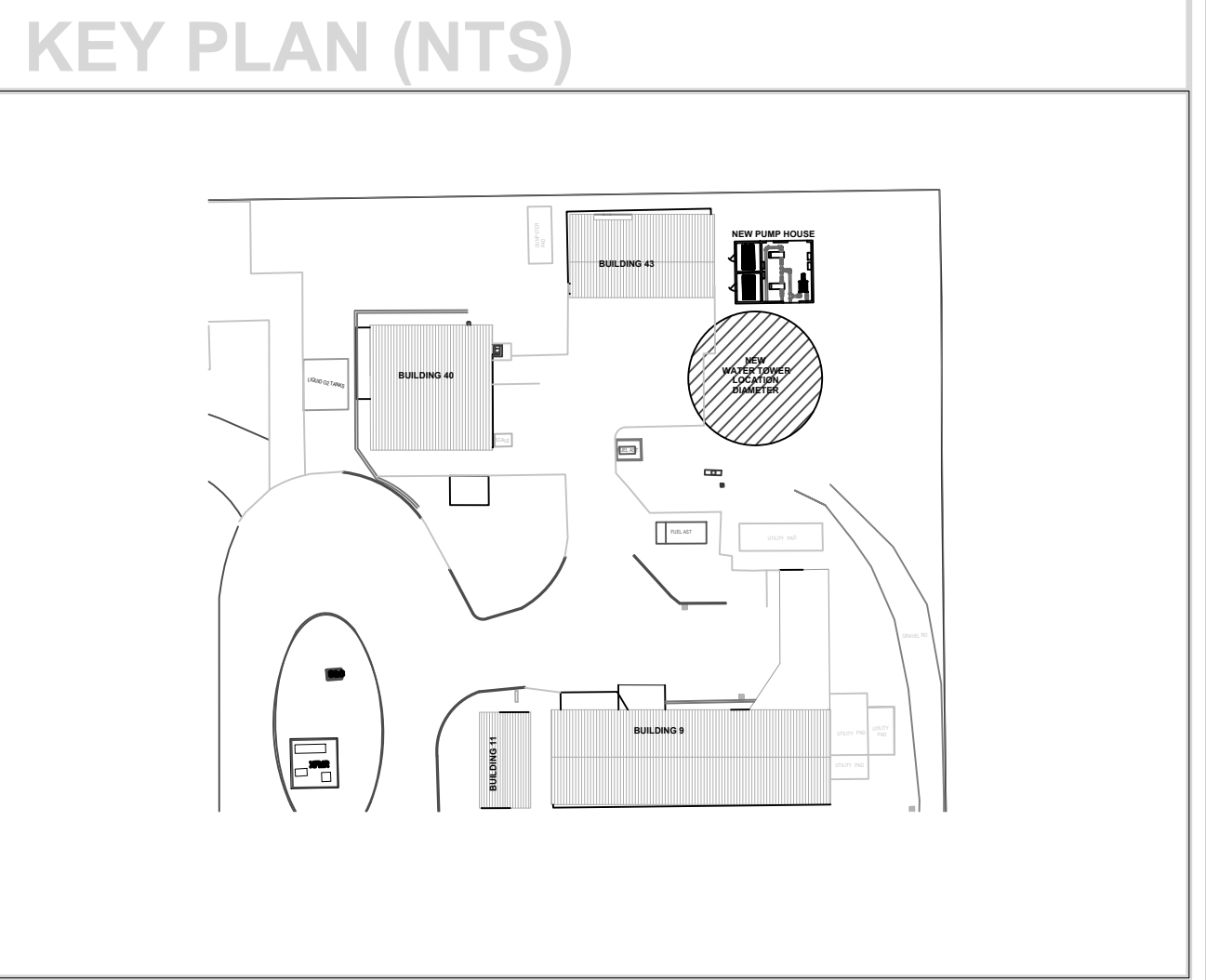
C5 Bioswale Detail
NTS



F1 Riprap Drainage Channel Detail
NTS



F5 Bioswale at Inlet Detail
NTS



Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	Drawing Title	Phase	Project Title	Project Number
	<div><div><div></div><div>FIRE PROTECTION FP&C CONSULTANTS KC, LLC</div></div><div><div></div><div>SECURITY GRW</div></div><div><div></div><div>CIVIL ENGINEER HODGES ENGINEERING</div></div><div><div></div><div>STRUCTURAL ENGINEER BERNHARD TME</div></div></div> <div><div>1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</div><div>1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</div><div>231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653</div><div>BUILDING 2, 1 ALLIED DRIVE SUITE 250</div></div> <div><div>A/E JohnsonDanforth & Associates 2200 N. RODNEY PARKWAY ROAD SUITE 210 LITTLE ROCK, AR 72212 901-404-4811 jda@johnsondanforth.com JDA PROJECT #: 2018.001</div><div></div></div> <td><div>DRAINAGE PLAN DETAILS</div></td> <td>CONSTRUCTION DOCUMENTS</td> <td>CONSTRUCT NEW WATER STORAGE FACILITY</td> <td>564-19-101</td>				<div>DRAINAGE PLAN DETAILS</div>	CONSTRUCTION DOCUMENTS		CONSTRUCT NEW WATER STORAGE FACILITY	564-19-101		
								Approved: Project Director			Building Number

A

B

C

D

E

F

A

B

C

D

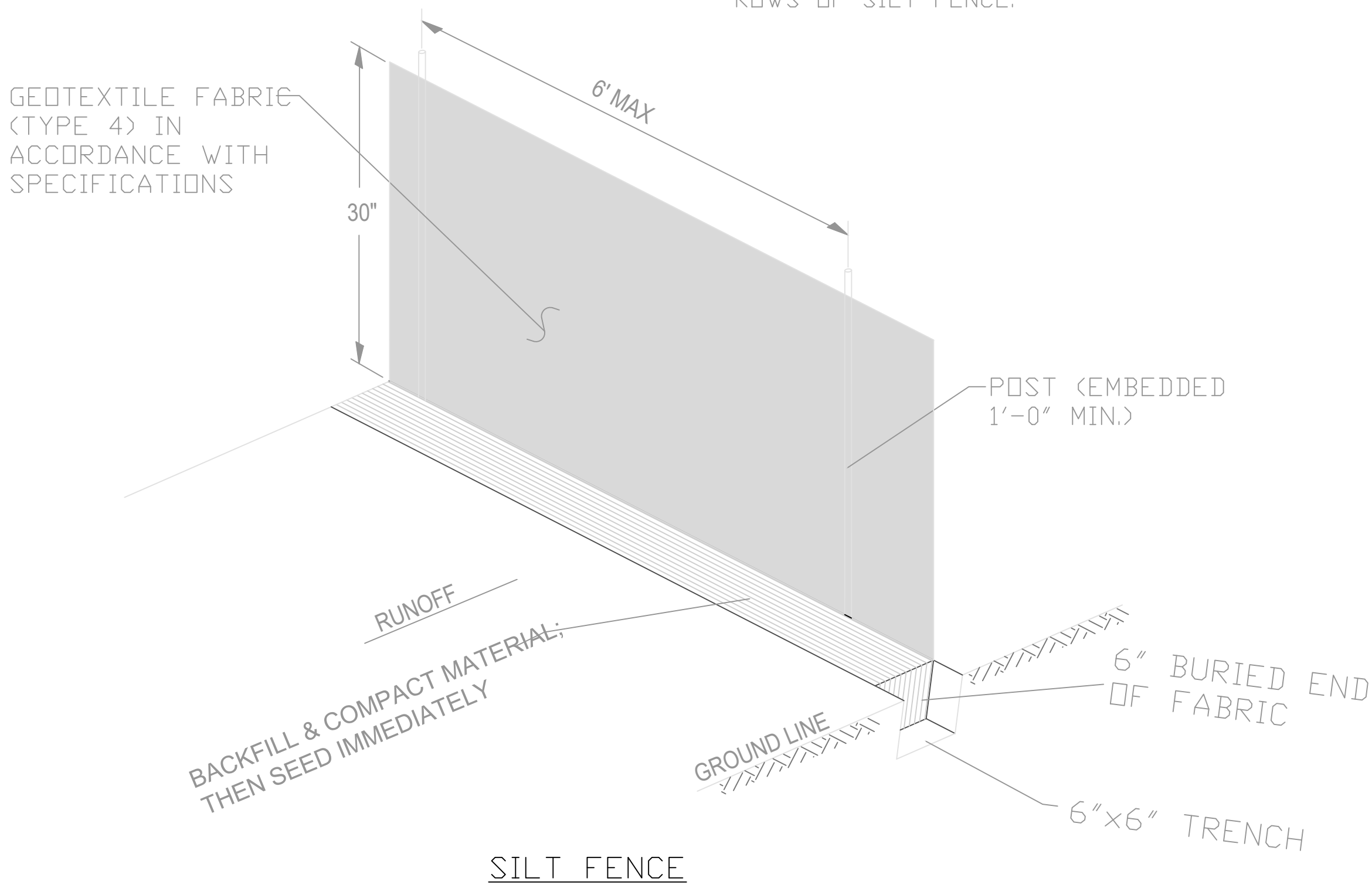
E

F

Maximum Slope Length for Silt Fence		
Slope Percent	Max. Slope Length (ft) Above Fence	
	Standard (18") Silt Fence	Reinforced (30") Silt Fence
2 (or less)	150	250
5	100	250
10	50	150
15	35	100
20	25	70
25	20	55
30	15	45
35	15	40
40	15	35
45	10	30
50	10	25

NOTES:

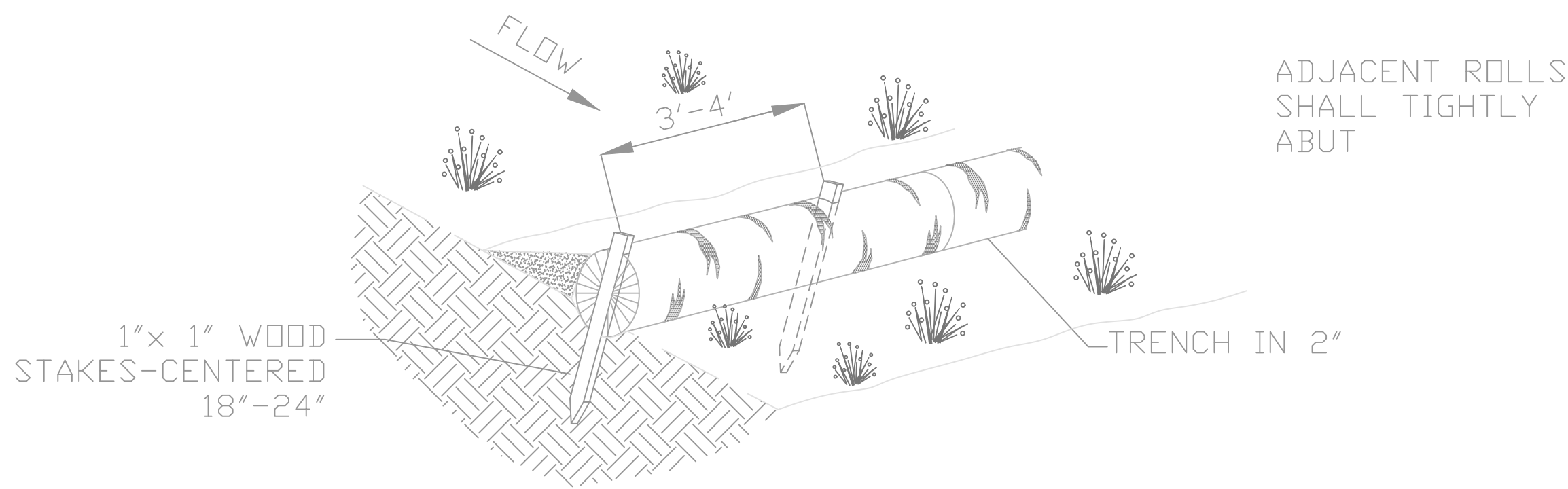
1. THE SLOPE LENGTH SHOWN IS THE DISTANCE FROM THE FENCE TO THE DRAINAGE DIVIDE OR THE NEAREST UPSLOPE CHANNEL.
2. SLOPE LENGTH CANNOT BE ADDRESSED BY USE OF MULTIPLE ROWS OF SILT FENCE.



SILT FENCE NOTES

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE.
3. FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. HERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
6. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

WATTLE SPACING	
SLOPE	MAXIMUM SPACING
1:1	20'
2:1	30'
3:1	40'
4:1	50'

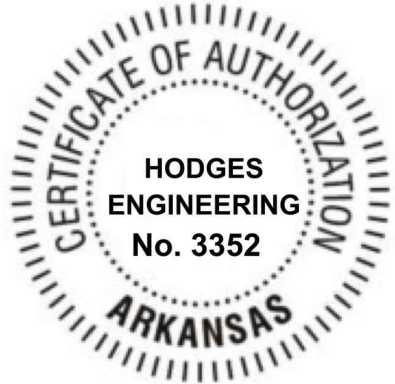
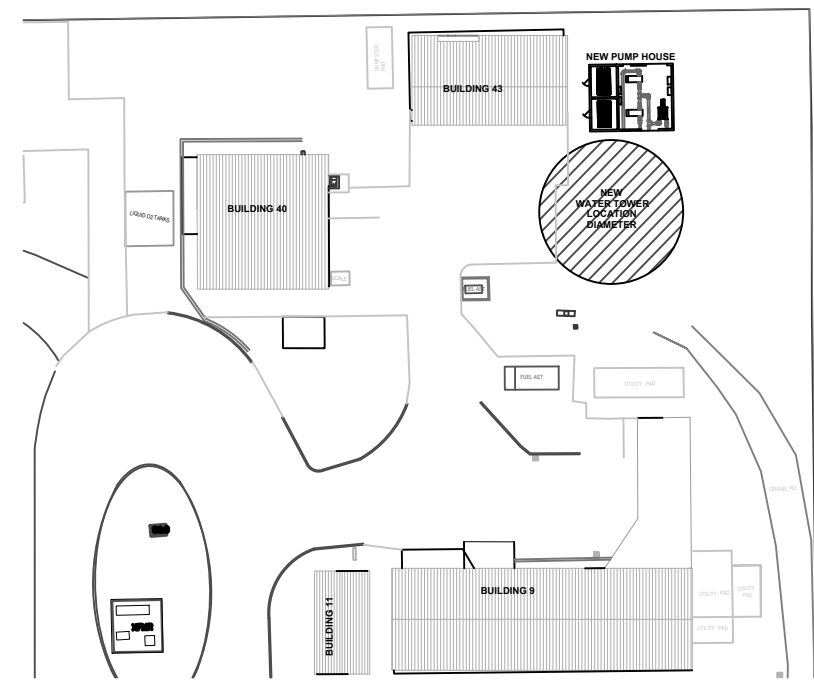


WATTLE DETAIL
N.T.S.

INSTALLATION NOTES

1. WATTLES SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
2. NOT FOR USE IN CONCENTRATED FLOW AREAS.
3. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
4. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT UPWARD CURVE AT THE END OF THE ROW IN ORDER TO CREATE PONDING.
6. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
7. WHEN INSTALLING RUNNING LENGTHS OF WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST, DO NOT OVERLAP THE ENDS. STAKE THE WATTLES AT EACH END AND FOUR FOOT ON CENTER.
8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2 - 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
9. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE IN ORDER TO HELP ABUT THEM TIGHTLY TOGETHER.
10. STAKING: THE CITY RECOMMENDS USING WOOD STAKES TO SECURE THE WATTLES. 1/2" TO 5/8" REBAR IS ALSO ACCEPTABLE WITH A SAFETY CAP. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE.
11. THE CONTRACTOR SHALL INSPECT WATTLES EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT AND MAKE REPAIRS OR REMOVE SEDIMENT ACCUMULATED BEHIND WATTLE AS NECESSARY.
12. SEDIMENT ACCUMULATED BEHIND WATTLE SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DIAMETER OF THE WATTLE.
13. WATTLES SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND IS ACCEPTED BY THE VETERANS ADMINISTRATION.

KEY PLAN (NTS)



A1

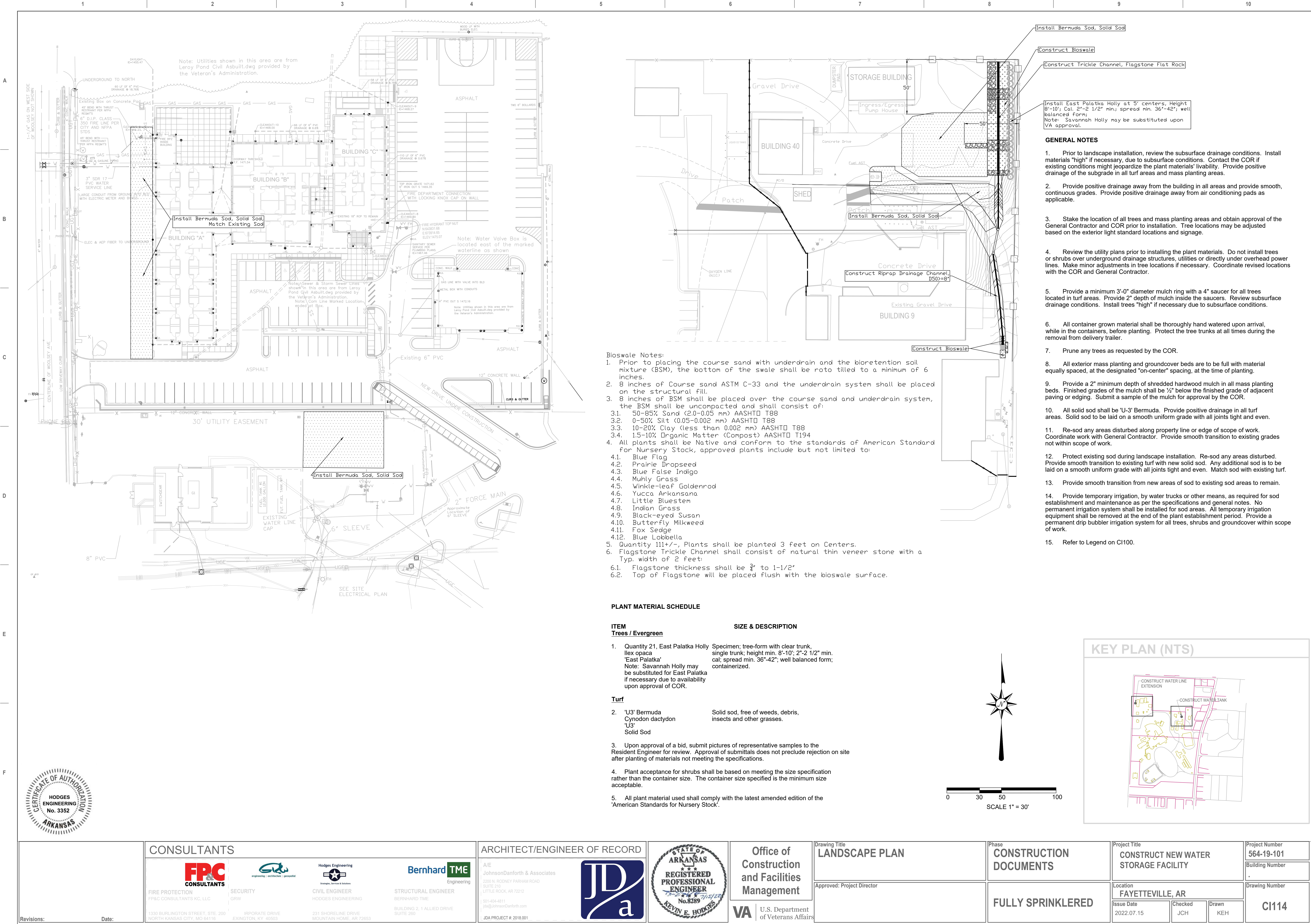
SILT FENCE DETAIL

NTS

A5

WATTLE DETAIL

NTS



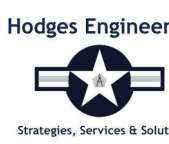
CONSULTANTS



FIRE PROTECTION
FPC CONSULTANTS KC, LLC
1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116



SECURITY
GRW
10000 E. 10TH AVENUE
DENVER, CO 80231



CIVIL ENGINEER
HODGES ENGINEERING
231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72053



STRUCTURAL ENGINEER
BERNHARD TME
BUILDING 2, 1 ALLIED DRIVE
SUITE 250
JDA PROJECT # 2018.001

ARCHITECT/ENGINEER OF RECORD

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SUITE 210
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JDA PROJECT # 2018.001



Office of
Construction and
Facilities
Management
VA U.S. Department of
Veterans Affairs

Drawing Title
LANDSCAPE PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
JCH

Drawn
KEH

Project Number
564-19-101

Building Number
.

Drawing Number
C1114

STRUCTURAL DESIGN CRITERIA

PER INTERNATIONAL BUILDING CODE (IBC 2012)

1. SEISMIC DESIGN:
RISK CATEGORY: IV
IMPORTANCE FACTOR: 1.5
MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_{DS} = 0.169$; $S_{D1} = 0.093$
SITE CLASS: C
SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 0.136$; $S_{D1} = 0.106$
SEISMIC DESIGN CATEGORY: C
BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS

SEISMIC BASE SHEAR: $V = 51.2$ K
SEISMIC RESPONSE COEFFICIENTS: $C_s = 0.101$
RESPONSE MODIFICATION FACTOR: $R = 2.0$; $C_d = 1.75$
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE (ELFP)

2. SNOW LOAD
GROUND SNOW LOAD: $P_g = 20$ PSF (CITY OF FAYETTEVILLE)
EXPOSURE COEFFICIENT: $C_e = 0.9$
THERMAL FACTOR: $C_t = 1.0$
IMPORTANCE FACTOR FOR SNOW, $I_s = 1.2$
FLAT ROOF SNOW LOAD, $P_f = 15.12$ PSF

3. WIND LOAD
DESIGN ULTIMATE WIND SPEED: 120 MPH
RISK CATEGORY: IV
EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENTS: $GCP_i = +0.18$
VELOCITY PRESSURE: $q_s = 27.16$ PSF

COMPONENTS AND CLADDING DESIGN WIND PRESSURES

ROOF UPLIFT	
ZONE ⁽¹⁾	GROSS UPLIFT ⁽¹⁾ (PSF)
1	-30.5
2	-36.2
3	-36.2

1. REFERENCE ASCE 7 FOR SPECIFIC ZONE LOCATIONS AND EXTENTS.
2. BASED ON EFFECTIVE AREA OF 100 FT²

WALL PRESSURES	
ZONE ⁽¹⁾	GROSS PRESSURE (PSF)
4	-28.6
5	-31.7

5. ROOF LOADS:
DEAD LOAD: 10 PSF
ROOFING/INSULATION: 10 PSF
SLAB/DECK: 60 PSF
CONCRETE PONDING: 15 PSF
MECH/ELEC: 20 PSF
- LIVE LOAD: 20 PSF (UNREDUCIBLE)
6. BLAST LOADING - PROVIDED BY BLAST ENGINEER
7. DESIGN SOIL CRITERIA AS FOLLOWS:
THE FOUNDATION FOR THIS STRUCTURE HAS BEEN DESIGNED BASED UPON THE RECOMMENDATIONS OF THE SOIL AND FOUNDATION INVESTIGATION FOR THIS SITE BY HODGES ENGINEERING OF MOUNTAIN HOME, AR (670-421-0579) AND GTS, Inc. OF FAYETTEVILLE, AR (PROJECT NO. 21-1-S-120) (479-521-7645) DATED AUGUST 26, 2021.

ADHESIVE SET ANCHORS, REINFORCING BARS, & DOWEL NOTES

1. USE HILTI HIT-HY 270 SYSTEM OR APPROVED EQUAL FOR ATTACHMENT TO HOLLOW AND GROUT-FILLED MASONRY UNITS.
2. USE HILTI HIT-HY 200 SYSTEM OR APPROVED EQUAL FOR ATTACHMENT INTO SOLID SURFACES ONLY. (E.G., SOLID CONCRETE)
3. FOR REBAR AND DOWEL EMBEDMENT, USE HY200 ADHESIVE, OR APPROVED EQUAL AS NOTED ABOVE.
4. USE HILTI THREADED RODS OR APPROVED EQUAL UNLESS SPECIFICALLY NOTED OTHERWISE. SUBSTITUTION OF A 3/8" ALL-THREAD ROD WILL NOT BE ALLOWED. RODS ANCHORING INTO UNREINFORCED MASONRY SHALL BE BENT AT 22 1/2° ANGLE UNO.
5. WHERE BASE MATERIAL IS HOLLOW BLOCK, BRICK OR OTHER MATERIAL CONTAINING POCKETS OR VOIDS, A SCREEN TUBE, PER MANUFACTURERS RECOMMENDATIONS, SHALL BE EMPLOYED IN THE SYSTEM.
6. FOLLOW MANUFACTURERS REQUIREMENTS FOR MINIMUM DEPTH OF BASE MATERIAL, MINIMUM EDGE DISTANCES, AND MINIMUM BOLT/BAR SPACING.
7. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT DEPTH REQUIRED TO SUPPORT THE INTENDED LOAD.
8. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL ADHESIVE AND MECHANICAL ANCHORS PER THE PRODUCTS APPLICABLE ICC-ES OR IAPMO-EVALUATION REPORT (ICC-ES ESR). CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

A. CONCRETE ANCHORS

- I. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC108 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.
- II. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.

B. MASONRY ANCHORS

- I. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY
- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC101 OR AC106.
 - ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC08.
- II. ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY
- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC08.
 - ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC08 OR AC06, AS APPROPRIATE.

GENERAL INFORMATION

1. ALL COLUMNS SHALL BE CENTERED ON GRID LINES UNLESS NOTED OTHERWISE.
2. ALL COLUMN FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED OTHERWISE.
3. ALL WALL FOOTINGS SHALL BE CENTERED ON WALLS UNLESS NOTED OTHERWISE.
4. UNLESS OTHERWISE NOTED OR DETAILED, CONCRETE PADS FOR MECHANICAL EQUIPMENT SHALL BE 4" THICK (MINIMUM) AND REINFORCED WITH #3 @ 12" OC EACH WAY CENTERED.
5. SUBSTITUTION OF EXPANSION OR ADHESIVE ANCHORS FOR EMBEDDED ANCHORS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PLACING OF CONCRETE CONTAINING THE ANCHORS.
6. BACKFILL BOTH SIDES OF ALL FOUNDATION AND RETAINING WALLS EQUALLY UNTIL LOW SIDE IS UP TO FINISH GRADE. DO NOT BACKFILL ANY WALLS UNTIL CONCRETE HAS REACHED ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
7. PERMANENT STABILITY OF THE BUILDING AND COMPONENTS IS NOT PROVIDED UNTIL THE ERECTION IS COMPLETED AS SHOWN ON THE CONTRACT DRAWINGS. PER SECT 7.10.3 OF ASCE CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES MARCH 18, 2005, TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR.
8. WEIGHTS OF MECHANICAL EQUIPMENT SHOWN ON THE STRUCTURAL PLANS ARE FOR UNITS SPECIFIED BY THE MECHANICAL ENGINEER. CONTRACTOR SHALL VERIFY WEIGHTS AND ANY SUBSTITUTIONS THAT RESULT IN INCREASED WEIGHT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
9. THE CONTRACTOR SHALL INSURE THAT NO CONSTRUCTION LOAD EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PLACED ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
10. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. OPENINGS AND PENETRATIONS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
12. ISOLATE THE SIDES AND TOP OF ANCHORS/VENEER FROM THE STRUCTURE SO THAT LATERAL SEISMIC FORCES RESISTED BY THE STRUCTURE ARE NOT IMPARTED TO THE VENEER. SEE ARCHITECTURAL PLANS AND SPECIFICATION FOR JOINTS IN THE VENEER AND ATTACHMENTS TO THE WALLS.
13. PRIOR TO FABRICATION AND/OR ERECTION OF ANY MATERIALS, THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER OF RECORD OR THE ARCHITECT IMMEDIATELY UPON DISCOVERY.
14. WATERSTOPS SHALL BE WATERSTOP-RX VOLCLAY BY AMERICAN COLLOID COMPANY OR EQUIVALENT UNLESS NOTED OTHERWISE. WATERSTOPS TO BE LOCATED SUCH THAT A 2" MINIMUM COVER IS MAINTAINED.
15. EXPANSION JOINT FILLER SHALL BE NON-EXTRUDING PREMOLEDDED MATERIAL COMPOSED OF FIBERBAND IMPREGNATED WITH ASPHALT CONFORMING TO THE REQUIREMENTS OF ASTM D1751 UNLESS NOTED OTHERWISE.
16. THE PREPARATION OF THE SUBGRADE INCLUDING ALL PROOF-ROLLING AND UNDERCUTTING AND THE SELECTION, PLACEMENT, COMPACTION AND TESTING OF ALL FILL MATERIAL SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT.
17. THE GENERAL CONTRACTOR SHALL VERIFY THE SITE CONDITIONS INCLUDING UNDERGROUND UTILITIES BEFORE STARTING WORK AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY CONDITIONS THAT ARE IN CONFLICT OR CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.
18. THE GENERAL CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL WORK WITH THE STRUCTURAL CONTRACT DOCUMENTS AND SHALL REPORT ANY SUSPECTED DISCREPANCIES OR OMISSIONS TO THE ARCHITECT IMMEDIATELY. THE STRUCTURAL CONTRACT DOCUMENTS DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS NOR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTORS.
19. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS UNLESS SPECIFICALLY STATED OTHERWISE.
20. SEE ARCHITECTURAL DRAWINGS FOR EXACT THICKNESS AND NUMBER OF LAYERS OF INTERIOR AND EXTERIOR SHEATHING, INSULATION, FLASHING, EXTERIOR FINISHES, WINDOW WALL SYSTEMS, ROOFING, EXPANSION JOINT COVERS, ETC. STRUCTURAL DRAWINGS DO NOT NECESSARILY DEPICT EXACT CONDITIONS OF NON-STRUCTURAL ELEMENTS.
21. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL REVIEW THE STRUCTURAL DRAWINGS FOR SECTIONS AND DETAILS THAT ARE LABELED AS "TYPICAL" AND ARE NOT NECESSARILY REFERENCED ON THE STRUCTURAL PLANS WHERE THEY APPLY.
22. SEE ARCHITECTURAL DRAWINGS FOR EXACT PATTERN OF BRICK VENEER (I.E. RUNNING BOND, SOLDIER COURSES, ETC.) AT ALL EXTERIOR STATIONS AND FOR THE TYPE OF MORTAR JOINT (I.E. FLUSH, RAKED, ETC.) ALSO, SEE ARCHITECTURAL DRAWINGS FOR EXACT SIZE, TYPE AND DETAILING OF STOREFRONT, CURTAIN WALL, INSULATION, FLASHING, ETC.
23. PROVIDE A VERTICAL BRICK CONTROL JOINT BETWEEN BRICK SUPPORTED BY STEEL FRAMING AND BRICK SUPPORTED DIRECTLY BY FOUNDATIONS.

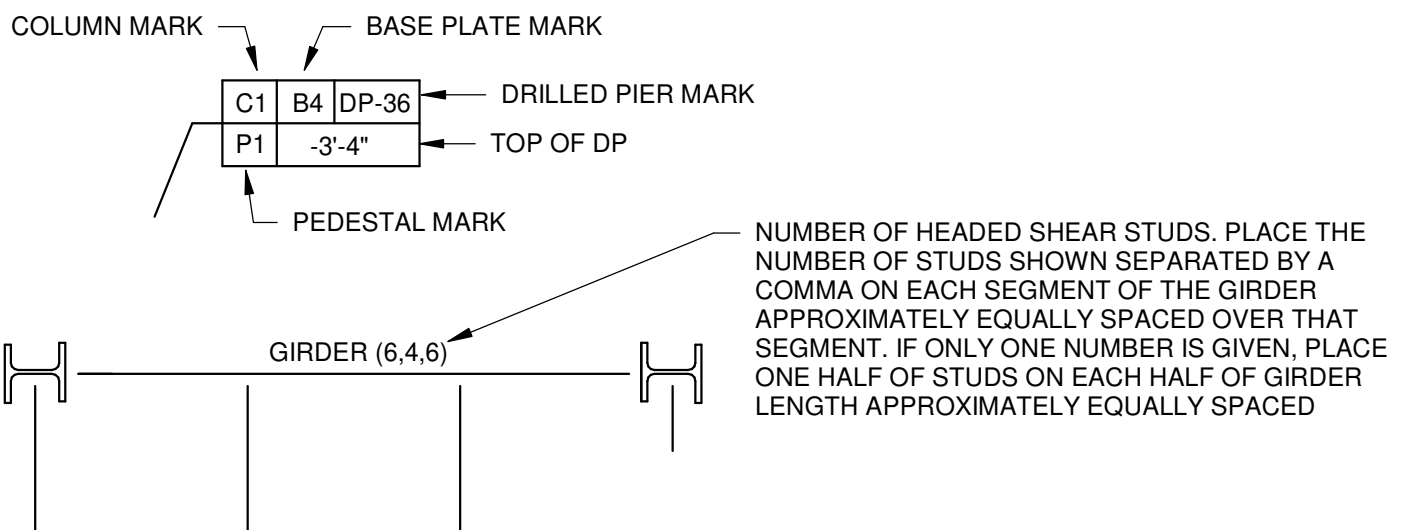
STEEL ANGLE LINTEL NOTES

1. LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.
2. 8" MIN BEARING EACH END UNLESS NOTED OTHERWISE.
3. STEEL LINTEL ANGLES SHALL BE GALVANIZED.
4. SEE ARCH FOR LOCATION AND SIZE OF ALL OPENINGS IN BRICK VENEER.
5. LINTEL SCHEDULE IS BASED ON THE REQUIREMENT THAT ALL VERTICAL CONTROL JOINTS IN BRICK VENEER OCCUR AT LEAST 8" BEYOND END OF OPENING. IF THE REQUIREMENT IS NOT MET, THEN THE GENERAL CONTRACTOR MUST CONTACT THE STRUCTURAL ENGINEER IN WRITING FOR FURTHER INSTRUCTIONS.

STEEL ANGLE LINTEL SCHEDULE

WALL	OPENINGS UP TO 3'-6"	OPENINGS 3'-6" UP TO 8'-0"	OPENINGS 8'-0" UP TO 10'-0"
4" CMU OR BRICK VENEER	1-L4x4x1/4	1-L6x4x3/8 (LLV)	1-L7x4x3/8 (LLV)

LEGEND



FOUNDATION NOTES

1. REFER TO "DESIGN SOIL CRITERIA" UNDER "STRUCTURAL DESIGN CRITERIA" IN THESE GENERAL NOTES FOR BEARING VALUES AND REFERENCED GEOTECHNICAL REPORT.
2. ALL SOIL PREPARATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE REFERENCED GEOTECHNICAL REPORT.
3. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT STRIP AREA OF ALL GRAVEL SURFACE VEGETATION, TOPSOIL, AND ANY DEBRIS REMOVE ALL EXISTING STRUCTURES, FOUNDATIONS, AND BELOW GRADE SITE FEATURES. AFTER STRIPPING AND MAKING REQUIRED CUTS, EXPOSED SUBGRADE SHOULD BE PROOF ROLLED WITH A 25 TON TANDEM-AXLE DUMP TRUCK. OVER EXCAVATE AND STABILIZE ANY SOFT OR UNSTABLE AREAS DISCOVERED BY PROOF ROLLING.
4. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PROOF ROLLING AND SHALL INSPECT THE SUBGRADE PRIOR TO ANY FILL OPERATIONS. ALL COMPACTED FILL SHALL BE CONTINUOUSLY INSPECTED BY THE OWNER'S SELECTED INDEPENDENT TESTING LABORATORY.
5. IF THE SOIL AT THE BEARING ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, THE STRUCTURAL ENGINEER OF RECORD OR ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
6. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT WHERE FILL MATERIAL IS REQUIRED OVER IN-SITU SUBGRADE, SCARIIFY SUBGRADE TO A MINIMUM DEPTH OF 9" AND ADJUST MOISTURE CONTENT TO EQUAL OPTIMUM MOISTURE CONTENT. COMPACT SCARIIFIED SUBGRADE USING THE SAME REQUIREMENTS LISTED BELOW FOR COMPACTED STRUCTURAL FILL.
7. ALL FILL MATERIAL UNDER STRUCTURE SHALL COMPLY WITH REQUIREMENTS STATED IN GEOTECHNICAL REPORT UNLESS SPECIFICALLY NOTED OTHERWISE. AS A MINIMUM, ALL FILL MATERIAL UNDER STRUCTURE SHALL BE SANDY CLAY OR CLAYEY SAND EXHIBITING A LIQUID LIMIT LESS THAN 35. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8" AND COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) AT OR SLIGHTLY WET OF OPTIMUM MOISTURE CONTENT. IN PLACE MOISTURE AND DENSITY OF EACH LIFT SHALL BE DETERMINED BY IN-SITU FIELD TESTS PRIOR TO PLACING ADDITIONAL FILL.
8. AFTER FOOTING EXCAVATIONS ARE COMPLETED AND BEFORE PLACING CONCRETE, THE EXCAVATED AREAS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SELECTED INDEPENDENT TESTING LABORATORY.
9. PROVIDE A MINIMUM OF A 4" CLEAN FREE DRAINING GRANULAR SUB-BASE FILL BELOW ALL INTERIOR SLABS-ON-GRADE UNLESS NOTED OR DETAILED OTHERWISE. SUB-BASE SHALL MEET GRADATION REQUIREMENTS OF ASTM C-33 SIZE NO. 67 UNLESS SPECIFICALLY NOTED OTHERWISE.
10. A 15-MIL MINIMUM POLYETHYLENE FILM VAPOR RETARDER, MEETING THE REQUIREMENTS IN THE SPECIFICATIONS, SHALL BE PLACED BELOW ALL INTERIOR SLABS-ON-GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

SUBMITTAL PROCEDURES

1. TRANSMIT SUBMITTALS SUFFICIENTLY IN ADVANCE OF RELATED CONSTRUCTION ACTIVITIES TO AVOID UNNECESSARY DELAY. THE STRUCTURAL ENGINEER OF RECORD MAY WITHHOLD ACTION ON A SUBMITTAL DURING COORDINATION WITH OTHER SUBMITTALS UNTIL ALL RELATED SUBMITTALS ARE RECEIVED.
2. SUBMIT DIGITAL COPIES THROUGH THE ARCHITECT FOR THE "SHOP DRAWINGS" REVIEW.
3. CONTRACTOR SHALL COMPLY WITH DIVISION ONE SECTION - "SUBMITTALS"
4. NO REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS ARE ACCEPTABLE FOR USE AS SHOP DRAWINGS.
5. ACTION STAMP: THE STRUCTURAL ENGINEER OF RECORD WILL STAMP EACH SUBMITTAL WITH CONFORMANCE ACTION STAMP TO INDICATE THE ACTION TAKEN IN ONE OF FOUR OPTIONS LISTED BELOW:

APPROVED	WORK COVERED BY THE SUBMITTAL COMPLIES WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
APPROVED AS NOTED	WORK COVERED BY THE SUBMITTAL MAY PROCEED PROVIDED IT COMPLIES WITH NOTATIONS OR CORRECTIONS ON THE SUBMITTAL AND REQUIREMENTS OF THE CONTRACT DOCUMENTS
REVISE AND RESUBMIT	WORK COVERED BY THE SUBMITTAL DOES NOT COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND MUST BE CHANGED TO COMPLY AND RESUBMIT THE ENTIRE SUBMITTAL
REJECTED	WORK COVERED BY THE SUBMITTAL IS TOTALLY UNACCEPTABLE AND MAY NOT PROCEED.

DRILLED PIERS

1. THE BOTTOM OF DRILLED PIERS AND CONCRETE POURING OPERATION SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL TESTING LAB NAMED UNDER THE QUALITY CONTROL SECTION AND SHALL BE PAID BY THE GENERAL CONTRACTOR.
2. THE REPORT OF THE GEOTECHNICAL ENGINEER SHALL BE FORWARDED TO THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
3. BOTTOM ELEVATIONS GIVEN FOR THE DRILLED PIERS ARE FOR BIDDING PURPOSES ONLY.
4. ALL CUTTINGS AND WATER SHALL BE REMOVED FROM THE SHAFT BEFORE INSPECTION AND PLACING CONCRETE.
5. NO ADD OR DEDUCT SHALL BE PAID IF BOTTOM ELEVATION OF PIER IS WITHIN ±2'-0" OF THE GIVEN ELEVATION IF ACTUAL DIFFERENCE IS MORE THAN ±2'-0". THE ADD OR DEDUCT SHALL BE BASED ON EXACT DIFFERENCE.
6. ALL HOLES SHALL BE TEMPORARILY CASED AS REQUIRED FOR CLEANOUT AND INSPECTION.
7. SEE THE SPECIFICATIONS FOR PAYMENT FOR ITEMS AND QUANTITIES. THERE WILL BE NO EXTRA PAY FOR ROCK EXCAVATION AND/OR BOULDER REMOVAL.

CONCRETE MASONRY NOTES

1. ALL MASONRY SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ACI 530 AND ACI 530.1 AS MODIFIED BY THE REFERENCED BUILDING CODE.
2. ARRANGEMENT & BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION.
3. REINFORCING STEEL SHALL BE NEW AND ALL BARS SHALL BE DEFORMED.
4. NET AREA COMPRESSIVE STRENGTH OF MASONRY F_m SHALL BE A MINIMUM OF 3,000 PSI AND A MINIMUM NET AREA COMPRESSIVE STRENGTH OF INDIVIDUAL UNITS SHALL BE 4,800 PSI.
5. LOAD BEARING CMU SHALL CONFORM TO ASTM C90, TYPE I OR ASTM C55, GRADE N. NON-LOAD BEARING CMU SHALL CONFORM TO ASTM C129, TYPE I.
6. MORTAR SHALL BE TYPE S CONFORMING TO PROPERTY OR PROTECTION REQUIREMENTS OF ASTM C270 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
7. ALL FILL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'_c) @ 28-DAYS OF 3000 PSI. AGGREGATE SHALL MEET THE REQUIREMENTS AS ASTM C-404 & SHALL HAVE A MAXIMUM SIZE OF 3/8" FOR COARSE GROUT AND 0.1" (#6 SIEVE SIZE) FOR FINE GROUT.
8. GROUT SHALL BE PLACED IN MAXIMUM LIFTS OF 4'-0". ALL GROUT SHALL CONFORM TO ASTM C446, FINE GROUT OR COARSE GROUT AS INDICATED BELOW.

USE COARSE GROUT FOR ALL OPENINGS AND CELLS LARGER THAN 3"x5".

GROUT SPACE REQUIREMENTS

GROUT TYPE	MAX GROUT POUR HEIGHT (FT)	MAX WIDTH OF GROUT SPACE ⁽¹⁾ (IN)	MINIMUM GROUT SPACE DIMENSIONS ⁽¹⁾ FOR GROUT CELLS OF HOLLOW UNITS ⁽¹⁾ (IN/IN)
FINE	1'-0"	3/4"	1 1/2" X 2"
FINE	5'-0"	2"	2" X 3"
COARSE	1'-0"	1 1/2"	1 1/2" X 3"
COARSE	5'-0"	2"	2 1/2" X 3"

1. FINE & COARSE GROUT ARE DEFINED IN ASTM C476
2. FOR GROUT SPACING BETWEEN MASONRY JUNCTIONS
3. GROUT SPACE DIMENSION IS THE CLEAR DIMENSION BETWEEN ANY OF OPENINGS, BELOW BEAM BEARING, AND IN WALLS AS INDICATED ON THE DRAWINGS. VERTICAL WALL REINFORCING BARS SHALL EXTEND CONTINUOUSLY FROM FOUNDATION TO EMBED AT LEAST 6" INTO TOP BOND BEAM AND BE SUBMITTED WITH A STANDARD 90° HOOK.
4. MIN GROUT SPACE DIM FOR ACC MASONRY UNITS SHALL BE 3"x3" OR A 3" O CELL.
9. VERTICAL CELLS TO BE FILLED WITH CONCRETE OR GROUT SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN THE DIMENSIONS SHOWN IN THE TABLE ABOVE.
10. VERTICAL AND HORIZONTAL REINFORCEMENT SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS. PLACE VERTICAL REINFORCING BARS AT CORNERS, JAMBS OF OPENINGS, BELOW BEAM BEARING, AND IN WALLS AS INDICATED ON THE DRAWINGS. VERTICAL WALL REINFORCING BARS SHALL EXTEND CONTINUOUSLY FROM FOUNDATION TO EMBED AT LEAST 6" INTO TOP BOND BEAM AND BE SUBMITTED WITH A STANDARD 90° HOOK.
11. DOWEL VERTICAL REINFORCING BARS OUT OF THE FOUNDATION OR STRUCTURE BELOW WITH BARS OF THE SAME SIZE AND SPACING ABOVE. DOWELS SHALL EXTEND INTO THE MASONRY WALL A MINIMUM OF THE LISTED LAP LENGTH FOR THE DOWEL BAR PLUS 2". THERE SHALL BE A FOUNDATION DOWEL FOR EACH VERTICAL REINFORCING BAR, EXCEPT AS OTHERWISE NOTED FOR JAMB BARS.
12. WIRE TYPE BAR POSITIONERS SHALL BE USED TO MAINTAIN THE POSITION OF VERTICAL BARS AND SHALL BE PLACED AT A MAXIMUM SPACING OF 100 TIMES THE BAR DIAMETER AND AT SPICE LOCATIONS. DO NOT "WET-STICK" DOWELS OR REINFORCING BARS. CONSTRUCTION OF MASONRY MAY NOT CONTINUE MORE THAN TWO COARSE ABOVE THE TOPS OF VERTICAL BARS TO BE SPICED.
13. LAPS OR SPICES OF REINFORCING STEEL IN MASONRY, SEE SCHEDULE BELOW.

REINFORCING LAP SPLICES (CONTACT & NON-CONTACT) BASED ON ACI 530-05

BAR SIZE	NOM BAR DIAMETER (IN)	GAMMA	MIN COVER (K) ¹ (IN)	LAP DEVEL DEVELOPMENT LENGTH ¹ LD (IN)	LD/DIA
#3	0.375	1.0	1.375	18	48
#4	0.5	1.0	1.800	24	48
#5	0.625	1.0	2.250	30	48
#6	0.75	1.3	3.000	43	57
#7	0.875	1.3	3.000	58	66
#8	1.00	1.3	3.000	67	87
#9	1.125	1.5	3.000	111	98
#10	1.25	1.5	3.000	141	111
#11	1.375	1.5	3.000	173	123

$F'_m = 3,000$ PSI
 $F_y = 60,000$ PSI

1. K IS THE MIN OF THE COVER OR FIVE (5) TIMES THE BAR DIA, WHICHEVER IS SMALLER.
14. PLACE HORIZONTAL BARS IN 8" DEEP BOND BEAM UNITS AT TOPS AND BOTTOMS OF ALL WALLS AND AT INTERMEDIATE LEVELS AS INDICATED ON THE DRAWINGS.
15. EXCEPT FOR LINTELS OR OTHER MASONRY BEAMS OVER OPENINGS, USE BOTTOMLESS BEAM BLOCK TO ALLOW CONTINUATION OF VERTICAL REINFORCEMENT THROUGH BOND BEAM.
16. CONTINUE BOND BEAM UNITS AND REINFORCING BARS UNINTERRUPTED AROUND CORNERS AND ACROSS WALL INTERSECTIONS. BOND BEAMS SHALL BE MADE CONTINUOUS AROUND CORNERS WITH ADDED CORNER BARS. BOND BEAM REINFORCING STEEL FOR INTERIOR AND EXTERIOR WALLS SHALL BE CONTINUOUS THROUGHOUT EXCEPT AT CONTROL AND ISOLATION JOINTS. AT CONTROL JOINTS, INTERMEDIATE BOND BEAM REINFORCEMENT SHALL BE DISCONTINUOUS. REINFORCEMENT IN BOND BEAMS AT ROOF OR FLOOR DIAPHRAGM LEVELS AND MEZZANINE LEVELS SHALL BE CONTINUOUS.
17. REINFORCING STEEL AROUND PERIMETER OF OPENINGS SHALL EXTEND NOT LESS THAN 40 BAR DIAMETERS OR 24", WHICHEVER IS GREATER. BEYOND CORNER OF OPENING VERTICAL JAMB BARS WILL BE THE SAME SIZE AND NUMBER AS NORMAL VERTICAL REINFORCING. FOUNDATION DOWELS ARE ONLY REQUIRED WHEN BAR DEVELOPMENT LENGTH DOES NOT EXIST BELOW THE OPENING.
18. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE CONFORMING TO ASTM A82, NOT LESS THAN 9 GAUGE (W1.7), GALVANIZED AT EXTERIOR WALLS. FURNISH MATERIAL WITH PREFABRICATED CORNERS AND TEES. REINFORCING SHALL BE USED IN ALL PARTITIONS, SPACED 18" OC VERTICALLY, JOINTS LAPPED 7". PLACE REINFORCING IN FIRST BED JOINT ABOVE AND BELOW ALL CONCRETE SLABS AND WALL OPENINGS.
19. SUBSTITUTION OF BRICKS OR SOLID MASONRY UNITS INTO CMU WALLS AS SPACERS AND/OR SLOPING BOND BEAMS SHALL NOT BE PERMITTED.
20. LOCATION OF WALL CONTROL JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. MAXIMUM SPACING BETWEEN CONTROL JOINTS TO BE 20-FT UNLESS NOTED OTHERWISE.
21. SUBSTITUTION OF EXPANSION OR ADHESIVE ANCHORS FOR EMBEDDED ANCHORS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER OF RECORD IN WRITING.
22. THE CONTACT SURFACE OF ALL FOUNDATIONS AND FLOORS WHICH ARE TO RECEIVE MASONRY WORK SHALL BE ROUGHENED AND CLEANED PRIOR TO START OF LAYING MASONRY. A COMPATIBLE BONDING AGENT SHALL BE APPLIED TO ENHANCE THE BOND OF THE MORTAR.
23. NO TEMPORARY OPENINGS OR PASSAGES OF ANY KIND SHALL BE ALLOWED IN ANY CMU WALL. CLEANOUTS ARE REQUIRED FOR HEIGHTS OVER 5'-0".
24. SUBMIT SHOP DRAWINGS FOR REVIEW BY ARCHITECT AND STRUCTURAL ENGINEER OF RECORD SHOWING:
- VERTICAL REINFORCING LOCATION AND METHOD OF SPLICE.
 - LOCATION OF CORES FILLED WITH GROUT.
 - BOND BEAM REINFORCING LOCATIONS, LENGTH, AND SPLICES.
 - PROVIDE TEMPORARY BRACING FOR ALL MASONRY WALLS CONFORMING TO OSHA REQUIREMENTS UNTIL PERMANENT LATERAL SUPPORT IS COMPLETE.

CAST-IN-PLACE CONCRETE NOTES

1. CONCRETE DESIGN AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITIONS.
2. MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- CONTINUOUS FOOTINGS, SPREAD FOOTINGS 3000 PSI
 - SLAB-ON-GRADE 3000 PSI
 - EXTERIOR AIR-ENTRAINED SLAB-ON-GRADE 4000 PSI
 - FOUNDATION WALLS 4000 PSI
 - CONCRETE PIER CAPS & GRADE BEAMS 4000 PSI
 - ELEVATED SLABS ON METAL DECK 4000 PSI
3. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 NEW AND DEFORMED. SEE LAP SCHEDULE UNLESS NOTED OR DETAILED OTHERWISE.
4. CONTRACTOR SHALL PROVIDE REINFORCING SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS AND DETAILS IS NOT ACCEPTABLE.
5. SUBMIT WRITTEN REPORTS OF EACH PROPOSED MIX DESIGN FOR EACH CLASS OF CONCRETE WITH CONCRETE CYLINDER TEST RESULTS AT LEAST 15 DAYS PRIOR TO START OF WORK.
6. ALL CONCRETE THAT WILL BE EXPOSED TO THE WEATHER SHALL HAVE 3% TO 5% AIR ENTRAINMENT.
7. ARRANGEMENT & BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION.
8. REINFORCING STEEL SHALL BE NEW & ALL BARS SHALL BE DEFORMED.
9. PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION WHILE PLACING CONCRETE. DO NOT "WET-STICK" DOWELS.
10. ALL WELDED WIRE REINFORCING SHALL BE LAPPED A MIN OF 6" AT THE SIDES AND ENDS.
11. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT AT SURFACES NOT EXPOSED DIRECTLY TO WEATHER OR GROUND SHALL BE 3/4" FOR SLABS, JOISTS, AND WALLS AND 1 1/2" FOR BEAM STIRRUPS, COLUMN TIES, OR SPIRALS UNO.
12. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT AT SURFACES WHICH WILL BE EXPOSED TO THE WEATHER OR BE IN CONTACT WITH THE GROUND SHALL BE 2" FOR BARS LARGER THAN #5 & 1 1/2" FOR #5 OR SMALLER BARS UNO. PROVIDE 3" COVER BELOW AND AT ENDS OF FOOTING BARS UNO.
13. LOCATIONS AND SIZES OF OPENINGS, SLEEVES, ETC. REQUIRED FOR OTHER TRADES MUST BE VERIFIED BY THESE TRADES BEFORE PLACING CONCRETE.
14. ALL SLOTS, SLEEVES, TRENCHES, AND OTHER EMBEDDED ITEMS SHALL BE SET AND SECURED AGAINST MOVEMENT BEFORE THE CONCRETE IS PLACED. SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND OTHER DRAWINGS FOR SIZES AND LOCATIONS. COORDINATE LOCATIONS, SPACINGS, AND SIZES WITH THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PLACING CONCRETE.
15. AS PART OF THE SUBMITTAL PROCESS, THE ELECTRICAL AND MECHANICAL CONTRACTOR(S) SHALL SUBMIT A PROPOSED ROUTING PLAN FOR ALL PIPES, CONDUITS, OR OTHER DEVICES TO BE EMBEDDED IN THE CONCRETE. THE SUBMITTAL SHALL SHOW SPECIFIC SIZES AND LOCATIONS OF ALL DEVICES SHALL BE A MINIMUM OF 4" FROM THE FACE OF THE CONCRETE, AND SLAB EDGES. NO ITEMS SHALL BE ALLOWED TO BE EMBEDDED IN THE CONCRETE WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
16. CONDUITS & PIPES EMBEDDED IN CONCRETE SLABS MAY BE NO LARGER THAN 1/3 THE SLAB THICKNESS (BASED ON THE MAXIMUM OUTSIDE DIAMETER) AND SHALL HAVE A CENTER-TO-CENTER SPACING NO LESS THAN THREE (3) CONDUIT DIAMETERS REGARDLESS OF DIAMETER. THE MINIMUM CLEAR SPACING BETWEEN CONDUITS OR REINFORCING SHALL BE 1".
17. NO MORE THAN FOUR CONDUITS MAY BE PLACED ADJACENT TO EACH OTHER WITHOUT PRIOR APPROVAL IN WRITINGS FROM THE STRUCTURAL ENGINEER OF RECORD.
18. NO ALUMINUM CONDUITS, DEVICES, OR FIXTURES MAY BE EMBEDDED INTO THE CONCRETE SO THAT THE ALUMINUM IS IN DIRECT CONTACT WITH THE CONCRETE.
19. CORNER BARS SHALL BE PROVIDED FOR ALL HORIZONTAL REINFORCING BARS AT THE INTERSECTIONS AND CORNERS OF ALL STRIP FOOTINGS, BEAMS, AND WALLS UNLESS NOTED OTHERWISE. CORNER BARS SHALL BE OF THE SAME SIZE AND GRADE AS THE HORIZONTAL REINFORCING THEY CONNECT. MINIMUM LAP LENGTHS SHALL BE AS INDICATED IN THE CORNER BAR DETAIL UNLESS NOTED OTHERWISE.
20. FOR SLAB-ON-GRADE PROVIDE SAW CUT CONTROL JOINTS AT INTERVALS OF 15'-0" OC MAX ACROSS THE WIDTH OF THE SLAB. REFER TO STRUCTURAL DRAWINGS FOR TYPICAL CONTROL JOINT LAYOUT AND DETAILS.
21. SAW CUTS SHALL BE MADE AS SOON AS THE CONCRETE CAN SUPPORT THE SAW WITHOUT DAMAGING THE SURFACE (EIGHT (8) HOURS MAX FROM THE START OF THE CONCRETE PLACEMENT).
22. ALL STRUCTURAL CONCRETE EXPOSED TO VIEW TO BE SMOOTH FORMED FINISHED WITH 3/4" CHAMFERS AT ALL EXPOSED EDGES.

CONCRETE HOOK DEVELOPMENT LENGTHS

BAR SIZE	f'c = 5000	f'c = 4000	f'c = 3000
#11	24"	27"	31"
#10	22"	24"	28"
#9	19"	22"	25"
#8	17"	19"	22"
#7	15"	17"	19"
#6	13"	15"	17"
#5	11"	12"	14"
#4	9"	10"	11"

* TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.

CONCRETE LAP SPLICE SCHEDULE

BAR SIZE	f'c = 5000		f'c = 4000		f'c = 3000	
	TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS
#11	101"	78"	113"	87"	131"	101"
#10	91"	70"	102"	79"	118"	91"
#9	81"	63"	91"	70"	105"	81"
#8	72"	55"	80"	62"	93"	72"
#7	63"	49"	70"	54"	81"	63"
#6	43"	33"	48"	37"	56"	43"
#5	36"	28"	40"	31"	47"	36"
#4	29"	22"	32"	25"	37"	29"

* LAP SPLICE LENGTHS ARE TYP UNLESS DETAILED OR NOTED OTHERWISE.

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STEEL FRAMING NOTES

1. UNLESS SPECIFICALLY NOTED OTHERWISE, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS, PERMITS, AND ORDINANCES.
2. ALL STRUCTURAL STEEL HSS SQUARE/RECT SECTIONS SHALL BE ASTM A500, GRADE B (Fy=46 ksi). ALL STRUCTURAL STEEL WIDE FLANGE SHALL BE ASTM A992 GRADE 50, CHANNEL SHAPES AND ALL OTHER MISCELLANEOUS STEEL SHALL BE ASTM A36. ALL STRUCTURAL STEEL PLATES SHALL BE ASTM A572-50, GRADE B (Fy=42 ksi). ALL BASE PLATES SHALL BE ASTM A572-50.
3. ALL STRUCTURAL BOLTS CONNECTING STRUCTURAL STEEL SHALL BE ASTM A325 TYPE 1 WITH THREADS ALLOWED IN THE SHEAR PLANE, EXCEPT WHERE THE STRUCTURE SHALL BE WELDED. STRUCTURAL BOLTS SHALL MEET ALL REQUIREMENTS OF GR50 AS NOTED.
4. WELD ELECTRODES SHALL BE E70XX.
5. DO NOT WELD BOTTOM FLANGE CONNECTIONS UNTIL ALL HORN DEAD LOADS ARE IN PLACE.
6. AT HSS BEAM CONNECTION TO WIDE FLANGE OR HSS COLUMNS, WELD ALL AROUND WITH A COMBINATION OF 3/16" FILL & FLARE BEVEL GROOVE WELDS (UNLESS NOTED OTHERWISE).
7. UNLESS SPECIFIED OTHERWISE, ALL SHOP CONNECTIONS SHALL BE WELDED. THE FOLLOWING DETAILED CONNECTIONS SHALL BE WELDED: ALL D CONNECTIONS SHALL BE USING 3/4"Ø, AND 1"Ø WHERE INDICATED. ASTM A325-N (OR ASTM F1582) HIGH STRENGTH BOLTS ("N" INDICATES BEARING TYPE WITH THREADS ALLOWED IN SHEAR PLANE) SHALL BE WELDED. STRUCTURAL BOLTS SHALL BE INSTALLED WITH THE REQUIREMENTS BY THE SPECIFICATIONS OF STRUCTURAL JOINTS, WHERE FIELD AND SHOP WELDS ARE INDICATED ON THE DRAWINGS.
8. IF THEY SHALL BE THE CASE, ALL NOTED CONNECTIONS SHALL BE WELDED. THE STRUCTURAL STEEL SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1 CORRESPONDING TO THE AISC SPECIFICATION (ASD) AND ALL WELDS SHALL BE WASHED. WELDS SHALL BE MADE BY CERTIFIED WELDERS USING E70XX ELECTRODES.
9. HIGH STRENGTH BOLTS (3/4"Ø, AND 1"Ø, ASTM A325-N (OR ASTM F1582) SHALL BE TIGHTENED TO PROVIDE, WHEN ALL BOLTS IN THE JOINT ARE TIGHT, A MINIMUM TENSION OF 150 KIPS PER BOLT. 150 KIPS FOR 3/4"Ø BOLTS, ONE OF THE FOLLOW METHODS SHALL BE USED:
 - A. POWER WRENCHES ADJUSTED TO STALL OR CUT-OUT AT THE CORRECT TENSION.
 - B. MANUAL TORQUE WRENCHES WITH TORQUE INDICATION SET TO GIVE THE CORRECT TENSION.
 - C. MANUAL WRENCHES USING THE "TURN-OF-NUT" METHOD OF ASSURING THE CORRECT TIGHTENING.
 - D. DIRECT TENSION INDICATORS
10. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL HIGH-STRENGTH BOLTS (3/4"Ø, F1582, AND A500) AND TWIST OFF BOLTS SHALL BE PRE-TENSIONED TO MEET SLIP CRITERIA. THE FOLLOWING CONNECTIONS SHALL BE DESIGNED AS "SNUG-TIGHT" BEARING CONNECTION. ALL JOINTS SHALL BE DESIGNED TO BE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE.
11. STEEL FEMBERS ARE NON-SLIP SUPPORTING AND COLUMN ANCHOR ROLES ARE DESIGNED FOR THE FOLLOWING CONNECTIONS: ALL DECK, BEAM-TO-COLUMN MOMENT CONNECTIONS, PORTAL FRAMES, AND DIAGONAL BRACERS ARE REQUIRED TO PROVIDE LATERAL STABILITY FOR THE COLUMN AND BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DURING AND AFTER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY UNTIL THE FINAL FORMWORK SYSTEM FOR CONCRETE IS IN PLACE AND COMPLETE.
12. ALL STEEL EXPOSED TO VIEW AT THE CLOSE OF PROJECT SHALL BE CLASSED AS "ARCHITECTUALLY EXPOSED STRUCTURAL STEEL" AND SHALL MEET THE REQUIREMENTS OF SECTION 10 OF AISC CODE OF STANDARD PRACTICE FOR STEEL CONSTRUCTION.
13. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALV. (INCLUDING MASONRY SUPPORT LIMITS), GALVANIZED OR PAINTED WITH TNEPEC EPDM SYSTEM. THE SAME SYSTEM MEETING THE REQUIREMENTS FOR WEATHER PROTECTION SHALL BE PROVIDED FOR ALL OTHER STEEL. OTHER STEEL MEMBERS SHALL BE FURNISHED WITH A SHOP COAT OF TNEPEC RED OR WHITE PRIMER. THE SAME SYSTEM MEETING THE REQUIREMENTS FOR WEATHER PROTECTION SHALL BE PROVIDED FOR ALL OTHER STEEL. ALL PRIMERS SHALL BE COMPATIBLE WITH TOP COATINGS SPECIFIED.
14. ALL STEEL MEMBERS THAT ARE TO RECEIVE SPRAY OR TROWEL APPLIED, PERMISSIBLE BACKGROUNDS EXISTING COATINGS SHALL BE FURNISHED WITHOUT PRIME COATINGS UNTO.
15. BEARING ENDS OF ALL COLUMNS SHALL BE SQUARE CUT.
16. ALL HANGERS, CLIPS, INSERTS, ETC. SUSPENDED FROM THE FLOOR STRUCTURE OR THE ROOF STRUCTURE (BEAMS, JOISTS, AND DECK) SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE FLOOR AND FLOOR ROOFING. PATCH ANY FIREPROOFING DAMAGED AFTER THE INITIAL APPLICATION.
17. FIELD CUTTING, DRILLING, OR OTHER MODIFICATION OF STRUCTURAL STEEL COMPONENTS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. ANY FIELD CUTTING, DRILLING, OR OTHER MODIFICATION CANNOT BE AVOIDED OR WHERE CUTTING IS REQUIRED, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD, ALL PERTINENT INFORMATION INCLUDING THE LOCATION, THE SHAPE, SIZE, LOCATION, AND METHOD OF CUTTING THE OPENINGS.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MATERIALS AND LABOR FOR THE INSTALLATION OF THE FLOOR AND FLOOR ROOFING. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR WHETHER OR NOT THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, MISCELLANEOUS SUPPLIES, MATERIALS, LABOR, AND EQUIPMENT, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

COMPOSITE BEAM NOTES

- 1. HEADED STUD CONNECTORS SHALL BE AUTOMATICALLY END WELDED THROUGH THE METAL FLOOR DECK ALONG CENTERLINE OF BEAMS PER MANUFACTURER'S RECOMMENDATION.
- 2. HEADED STUD CONNECTORS, AFTER INSTALLATION, SHALL EXTEND NOT LESS THAN 12" ABOVE THE TOP OF THE BEAM TO BE WELDED TO THE BEAM. THE FINISHED SURFACE OF THE CONCRETE, HEADED STUD SHEAR CONNECTORS SHALL BE 3/4" OR 3/8" LONG BEFORE WELDING AT SPACING DESIGNATED (24" OC OR 18" OC) UNLESS OTHERWISE NOTED. HEADED STUD SHEAR CONNECTORS SHALL NOT BE LESS THAN FOUR (4) TIMES THE STUD DIAMETER IN LENGTH.
- 3. HEADED STUD CONNECTORS SHALL HAVE AT LEAST ONE (1) END OF LATERAL CONCRETE COVER EXCEPT FOR CONNECTORS INSTALLED IN THE RISBS OF CRACKS. CRACKS SHALL BE DISTANT FROM THE BASE OF THE STUD CONNECTOR TO THE BASE OF THE STUD SHALL BE 12" UNLESS NOTED OTHERWISE.
- 4. THE MINIMUM CENTER-TO-CENTER SPACING OF HEADED STUD CONNECTORS SHALL BE SIX TIMES THE STUD DIAMETER ALONG THE LONGITUDINAL AXIS OF THE BEAM AND FIVE TIMES THE STUD DIAMETER ALONG THE TRANSVERSE OR LATERAL AXIS OF THE BEAM. IN FORMED STEEL DECKS ORIENTED PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE BEAM, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE FOUR TIMES THE STUD DIAMETER IN ANY DIRECTION.
- 5. HEADED STUD CONNECTORS MAY NOT BE INSTALLED OVER THE FLANGES OF BEAMS THAT ARE LESS THAN 0.4 TIMES THE STUD DIAMETER UNLESS THEY ARE DIRECTLY OVER THE WEB. SHOULD DECK LAYOUT AND STUD SPACING CAUSE A CONFLICT, THE CONTRACTOR SHALL CONSULT WITH THE STRUCTURAL ENGINEER OF RECORD FOR A RESOLUTION PRIOR TO INSTALLATION.






STEEL FLOOR DECK (COMPOSITE & NON-COMPOSITE)

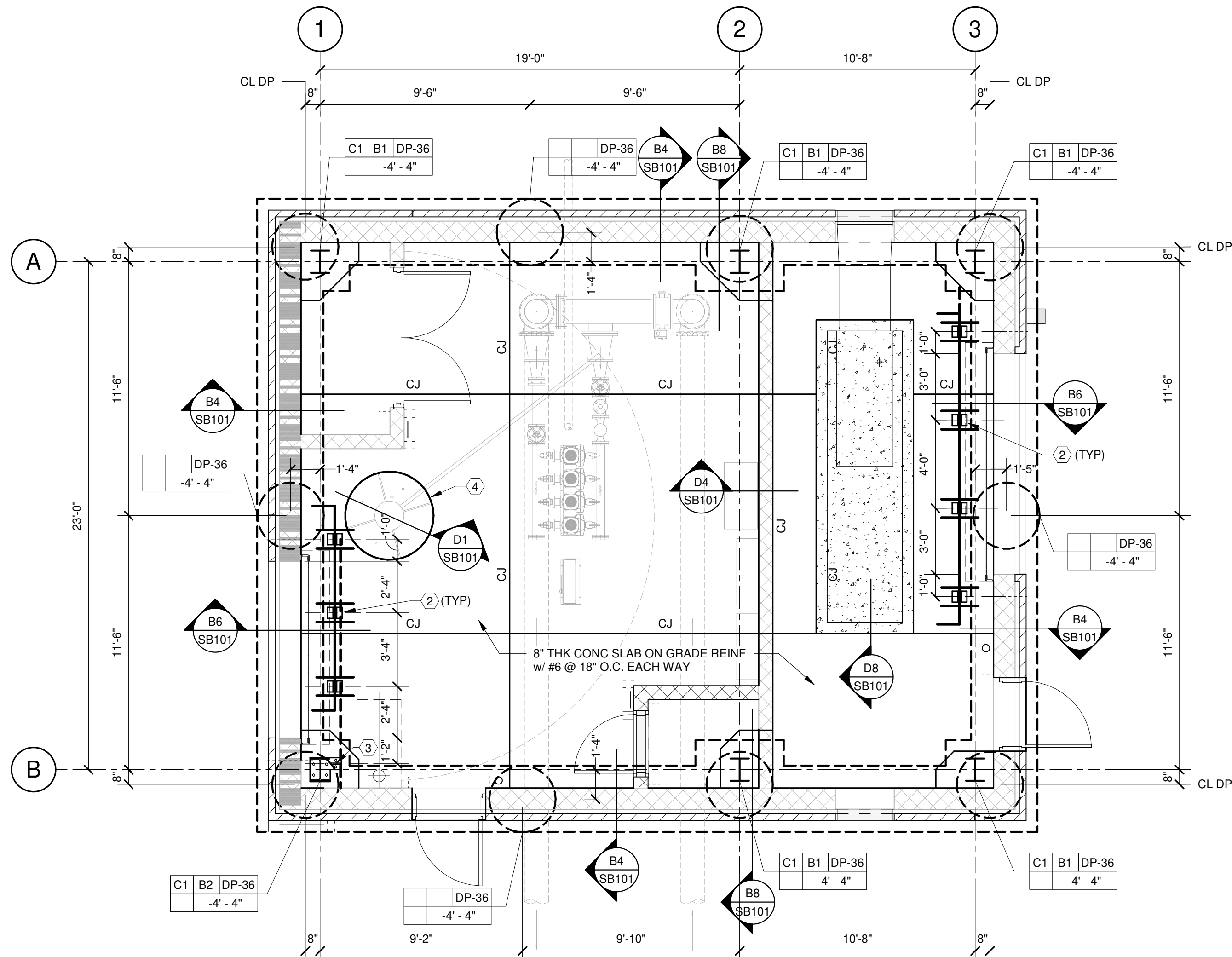
1. ALL DECK SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI), THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS LISTED IN THE SDI MANUAL.
2. WHERE STEEL DECK IS PART OF A RATED ASSEMBLY, SUPPLY ALL DECK AND COMPONENTS, WHICH COMPLY WITH REQUIREMENTS OF UNDERWRITERS LABORATORIES (UL) FOR EACH TYPE OF ASSEMBLY SPECIFIED. REFERENCE LATEST SPECIFICATIONS FOR STEEL DECKING SYSTEMS. IF FIREPROOFING FINISHES SHALL BE COMPATIBLE W/ FIREPROOFING MATERIAL IS APPLIED, THE DECK SURFACE TO BE TREATED SHALL BE FREE OF RUST, SCALE, OIL, OR OTHER CONTAMINANTS THAT COULD IMPAIR BOND.
3. FLOOR DECK SHALL BE THE SIZE AND CONFIGURATIONS SHOWN ON THE STRUCTURAL PLANS. ALL DECK SHALL GALVANIZED WITH A G90 COATING. BOLT HEADS, UNO.
4. THE DECK SHALL BE FASTEN TO THE SUPPORTING STEEL, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MINIMUM DECK FASTENING SHALL BE AS FOLLOWS: FOUR #4-58" ROUND PUDDLE WELDS AT END OF EACH WIDE PANEL AND 6 @ 12" ON CENTER. IF 12" ON CENTER HEADLAP SEAMS TO BE FASTENED W/ #10 HITS AT 24" OC. LONG PANEL, SIDS AT SUPPORTS TO BE FASTENED W/ 5/8" ROUND PUDDLE WELDS AT 12" OC. ALONG FULL LENGTH OF PANEL AND AT 6" OC. AT CENTER. IF 12" ON CENTER.
5. ALTERNATE FASTENING OPTIONS USING MECHANICAL FASTENERS, POWER-ACTUATED, OR SCREWS MAY BE CONSIDERED, IF SUBMITTED BY THE CONTRACTOR, FOR APPROVAL BY THE STRUCTURAL ENGINEER. THE ENGINEER CERTIFYING THAT THE PROPOSED SYSTEM PROVIDES AT LEAST THE SAME ULTIMATE DIAPHRAGM SHEAR RESISTANCE AS THE SYSTEM AND PATTERN SPECIFIED MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO BE USED.
6. FOR COMPOSITE DECK, HEADED STUD CONNECTIONS WELDED THROUGH THE DECK, MAY BE COUNTED AS PART OF THE REQUIRED DECK ATTACHMENT PATTERN.
7. PROVIDE 1 1/2" MINIMUM BEARING AND A 4" LAP AT THE SPLICE POINT OF ALL PIECES OF DECK.
8. WHERE POSSIBLE, ALL DECKING SHALL BE 3-SPAN CONTINUOUS, MINIMUM. DECKING SPECIFIED ON THIS PROJECT ASSUMES A 3-SPAN CONDITION UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PROVIDE HEAVY GAUGE DECK, AS REQUIRED, FOR ONE OR TWO SPAN CONDITIONS TO MEET EQUIVALENT LOAD CAPACITY OF THE SPECIFIED DECK UNDER A 3-SPAN CONDITION.
9. STEEL FLOOR DECK SHALL NOT BE USED TO SUPPORT LOAD FROM PLUMBING HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS, OR OTHER TYPES OF ANY MECHANICAL OR ELECTRICAL EQUIPMENT.
10. WHERE DECK RISBS ARE CUT AT PENETRATIONS, PROVIDE DECK SUPPORT ANGLES OR DECK STIFFENERS AS REQUIRED.
11. SUPPLY 8" WIDE, MINIMUM, PLATES MATCHING DECK GAUGE OR HEAVIER FOR ALL RIDGE, VALLEY, AND CHANGE IN DECK DIRECTION LOCATIONS. PLATES DO NOT FALL SHORT OF SUPPORTING THE DECK AT LEAST 8" WIDE.
12. UNLESS NOTED OTHERWISE, PROVIDE 6X6 W/1.4XW1.4 WWPF REINFORC CENTERED IN THE CONCRETE SLAB.
13. THE FOLLOWING ITEMS ARE NOT ALLOWED IN THE CONCRETE SLAB UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER:
 - A. NO SLOPES ARE ALLOWED IN THE CONCRETE SLAB UNLESS INDICATED ON THE STRUCTURAL CONTRACT DOCUMENTS
 - B. ON EMBEDDED CUTOUT OR OTHER ITEMS
 - C. CONTRACTOR TO ENSURE THAT PENETRATIONS ARE COORDINATED WITH THE MECHANICAL AND ELECTRICAL DRAWINGS
14. ANY PROPOSED CONSTRUCTION JOINTS IN THE CONCRETE SLAB OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BE LOCATED AS FOLLOWS:
 - A. IF PARALLEL TO FLOOR BEAMS, AT MID-POINT BETWEEN BEAMS
 - B. IF PARALLEL TO GIRDBARS, AT MID-POINT BETWEEN GIRDBARS

SPECIAL INSPECTION ITEMS

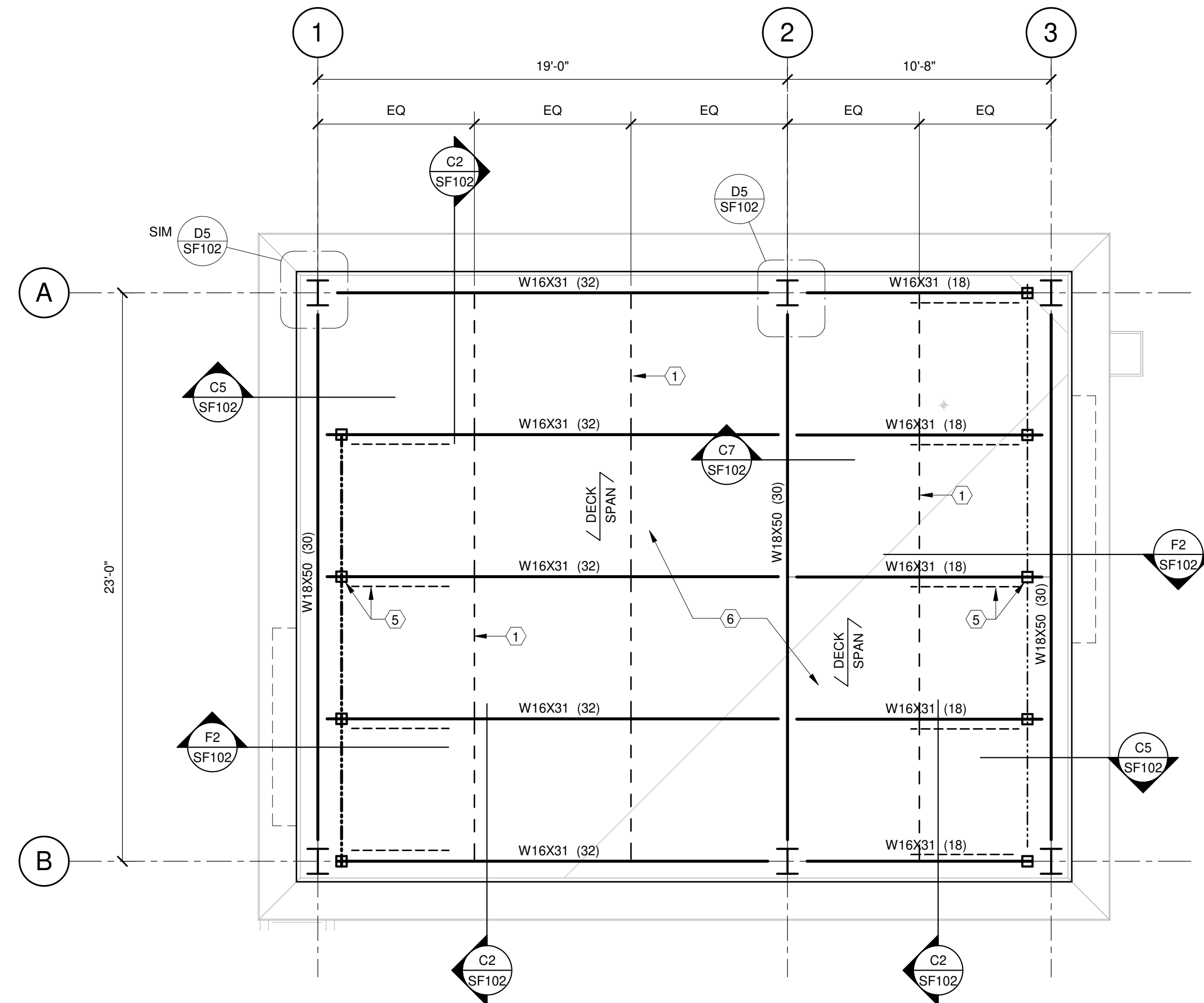
- SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO SECTION 1704 OF **IBC 2012**. THE APPROVED SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR STRUCTURE FOR WHICH SPECIAL INSPECTION IS REQUIRED. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE OWNER, THE BUILDING OFFICIAL, THE ARCHITECT, THE STRUCTURAL ENGINEER OF RECORD, AND THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL BRING NON-CONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND NOTE ALL SUCH ITEMS IN THE REPORTS. ANY UNRESOLVED ITEM ABOUT TO BE COVERED BY THE WORK SHALL BE NOTED TO THE ARCHITECT AND THE OWNER'S CONSTRUCTION MANAGER AS WELL AS THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER OR NOT THE WORK IS IN COMPLIANCE WITH THE DESIGN, THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR OF ANY NON-CONFORMING ITEMS AND REQUESTS FOR ITEMS LISTED ON THE SCHEDULE AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
- THIS SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS NECESSARY FOR COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE, CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS.
- THE OWNER WILL ENGAGE ONE OR MORE QUALIFIED SPECIAL INSPECTORS AND/OR TESTING AGENCIES TO CONDUCT STRUCTURAL TESTS AND SPECIAL INSPECTIONS SPECIFIC TO THE PROJECT AND IN ACCORDANCE WITH THE CODES AND AS MAYBE SPECIFIED IN OTHER DIVISIONS OF THESE SPECIFICATIONS.
- STRUCTURAL TESTING AND SPECIAL INSPECTION SERVICES ARE REQUIRED TO VERIFY COMPLIANCE WITH THE SPECIFICATIONS. SPECIAL INSPECTIONS THESE SERVICES DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH OTHER CONSTRUCTION DOCUMENT REQUIREMENTS.
- THE SPECIAL QUALITY ASSURANCE PROGRAM AND THE STANDARDS AND TESTS FOR INDIVIDUAL CONSTRUCTION ACTIVITIES ARE SPECIFIED IN THE SECTIONS THAT SPECIFY THOSE ACTIVITIES. REQUIREMENTS IN THOSE SECTIONS SHALL ALWAYS TAKE PRECEDENCE OVER THE STANDARDS AND TESTS.
- B. SPECIFIED TESTS, INSPECTIONS, AND RELATED ACTIONS DO NOT RELIEVE CONTRACTOR'S OTHER QUALITY ASSURANCE AND CONTROL PROCEDURES THAT ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENT REQUIREMENTS.**
- C. REQUIREMENTS FOR CONTRACTOR TO PROVIDE QUALITY - ASSURANCE AND CONTROL SERVICES ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS. IF ANY AUTHORITIES HAVING JURISDICTION ARE NOT LIMITED BY PROVISIONS OF THIS SECTION.**
5. **EARTHWORK** (PER SECTION 1705.6).
6. **CONCRETE PLACEMENT** (PER SECTION 1705.3).
7. **MASONRY** (PER SECTION 1705.4).
8. **STRUCTURAL STEEL** (PER SECTION 1705.2).
- A. **SHOP FABRICATION OF STEEL MEMBERS.**
- B. **STEEL MATERIAL ID MARKINGS** CONFORMANCE TO ASTM STANDARDS.
- A. **ALL STRUCTURAL WELDING PER AWS D1.1, EXCEPT AS FOLLOWS:**
- I. **THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT TO WITNESS WELDING.** THE SPECIAL INSPECTION REPORTS MUST INDICATE THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTION ARE MADE OF THE WELDING WORK. THE SPECIAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION.
- II. **SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" SIZE.**
- III. **FLOOR AND ROOF DECK WELDING.**
- IV. **WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.**
- V. **WELDED SHEET STEEL FOR COLD-FORMED FRAMING MEMBERS SUCH AS WALL STUDS AND JOISTS.**
9. **PERIODIC INSPECTION OF ALL HIGH STRENGTH BOLT INSTALLATIONS AND VERIFICATION THAT IDENTIFICATION MARKS FOR HIGH STRENGTH BOLT, NUTS AND WASHERS CONFORM TO APPLICABLE ASTM STANDARDS.**
10. **PERIODIC INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.**
11. **METAL DECK DIAPHRAGM CONNECTIONS AND CONNECTIONS TO SUPPORTING STEEL FRAME MEMBERS.**
9. **ADDITIONALLY, COMPLIANCE IS REQUIRED WITH FIELD QUALITY CONTROL PROVISIONS OF THE FOLLOWING SPECIFICATION SECTIONS:**
- A. **FOOTING BOTTOMS AND EARTHWORK:** SECTION 31 2000.
- B. **CONCRETE:** SECTION 03 3000.
- C. **MASONRY CONSTRUCTION:** SECTION 04 00 00.
- D. **STRUCTURAL STEEL:** SECTION 05 12 00.



Revisions:	Date:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management	Drawing Title STRUCTURAL NOTES		Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101				
		 FIRE PROTECTION FPC CONSULTANTS KC, LLC		 SECURITY GRW		 CIVIL ENGINEER HODGES ENGINEERING				 STRUCTURAL ENGINEER BERNHARD TME		Approved: Project Director		Location FAYETTEVILLE, AR		Drawing Number S002			
		1339 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116		801 CORPORATE DRIVE LEXINGTON, KY 40503		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653				BUILDING 2, 1 ALLIED DRIVE SUITE 2800 LITTLE ROCK, AR 72202		A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com LJA PROJECT #: 2018-001				U.S. Department of Veterans Affairs		Issue Date 2022.07.15	



D2 FOUNDATION PLAN - PUMP HOUSE
1/4" = 1'-0"

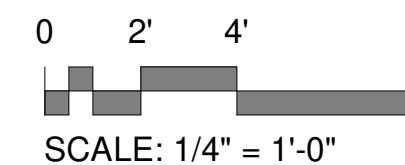








D7 ROOF FRAMING PLAN - PUMP HOUSE
1/4" = 1'-0"

SHEET NOTES:
1. SEE SHEETS S001 & S002 FOR STRUCTURAL NOTES.
2. ALL BEAMS/JOIST EQUALLY SPACED BETWEEN GRIDS, U.N.O.

KEYED NOTES:
① X-BRIDGING, SEE SECTION
② BLAST CURTAIN FLOOR ANCHOR TETHER EMBED AS REQ'D BY BLAST CURTAIN SUPPLIER. CONTRACTOR TO VERY TETHER EMBED SPACING w/ BLAST CURTAIN SUPPLIER PRIOR TO FABRICATION OF REINF & POURING CONC. SEE SECTION FOR ANCHOR TETHER CONC REINF.
③ BLAST CURTAIN FLOOR ANCHOR TETHER @ COLUMN BASE PLATE SEE BASE PLATE DETAILS
④ JIB CRANE & FOUNDATION. NOTE BID ITEM 3. DEDUCT ALTERNATE #2 TO OMIT JIB CRANE AND FOUNDATION
⑤ BLAST CURTAIN MISC. STL. SEE SECTION
⑥ ROOF DECK: TOP OF SLAB ELEVATION (+)16'-7 1/2"
6 1/2" THK CONC SLAB REINF w/ 6x6-W2.1xW2.1 WWF ON 2VLI x 20 GA GALV COMPOSITE DECK w/ THE FOLLOWING MIN PROPERTIES:
 $I_y = 0.409 \text{ in}^4/\text{ft}$
 $I_x = 0.406 \text{ in}^4/\text{ft}$
 $S_y = 0.341 \text{ in}^3/\text{ft}$
 $F_y = 50 \text{ ksi}$
FASTENERS:
LAYOUT = 36/4
SUPPORT = 5/8" PUDDLE WELDS
SIDELAP = 2 - #10 TEK'S
EXTREME EDGE = 5/8" PUDDLE WELDS @ 12" O.C.

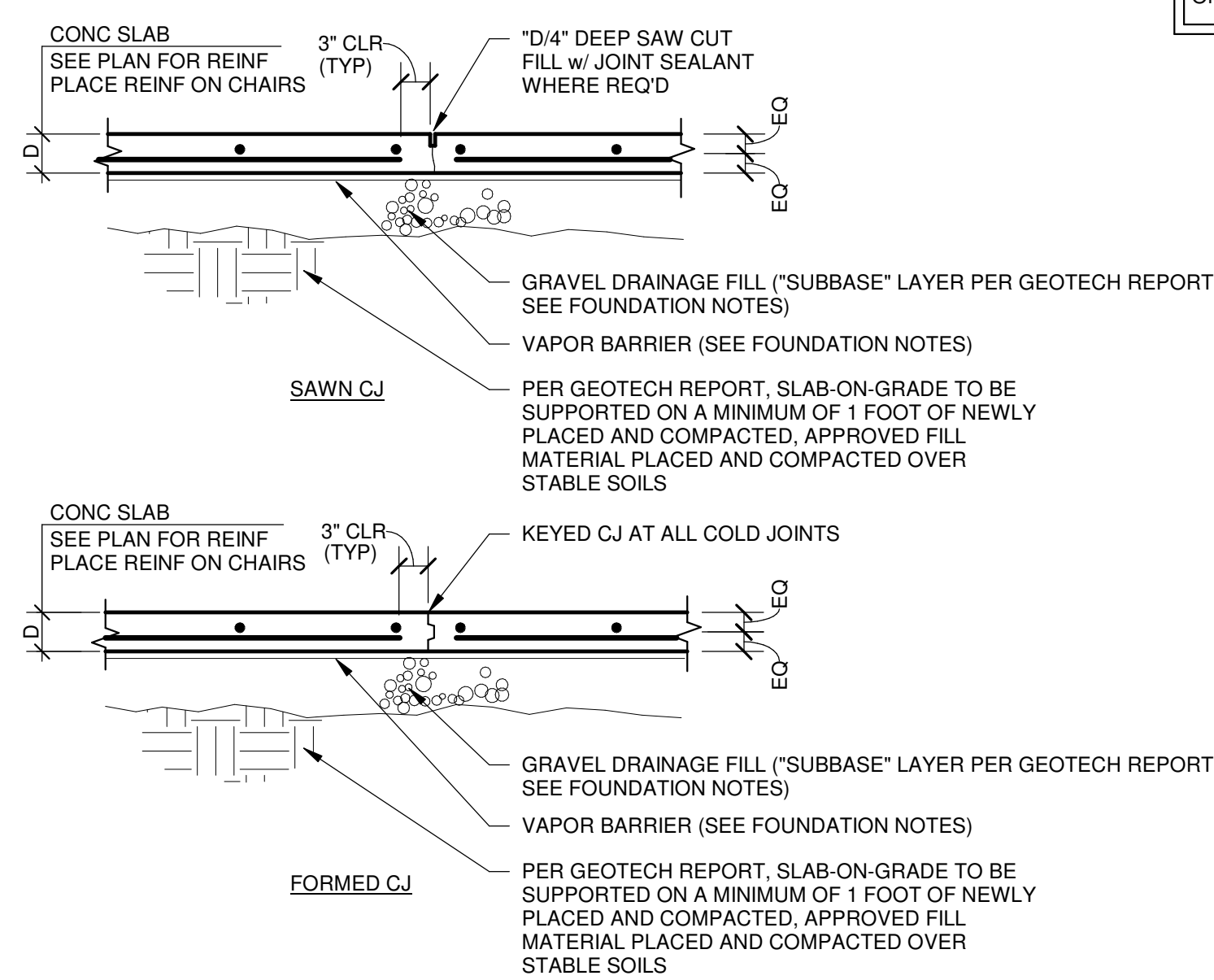
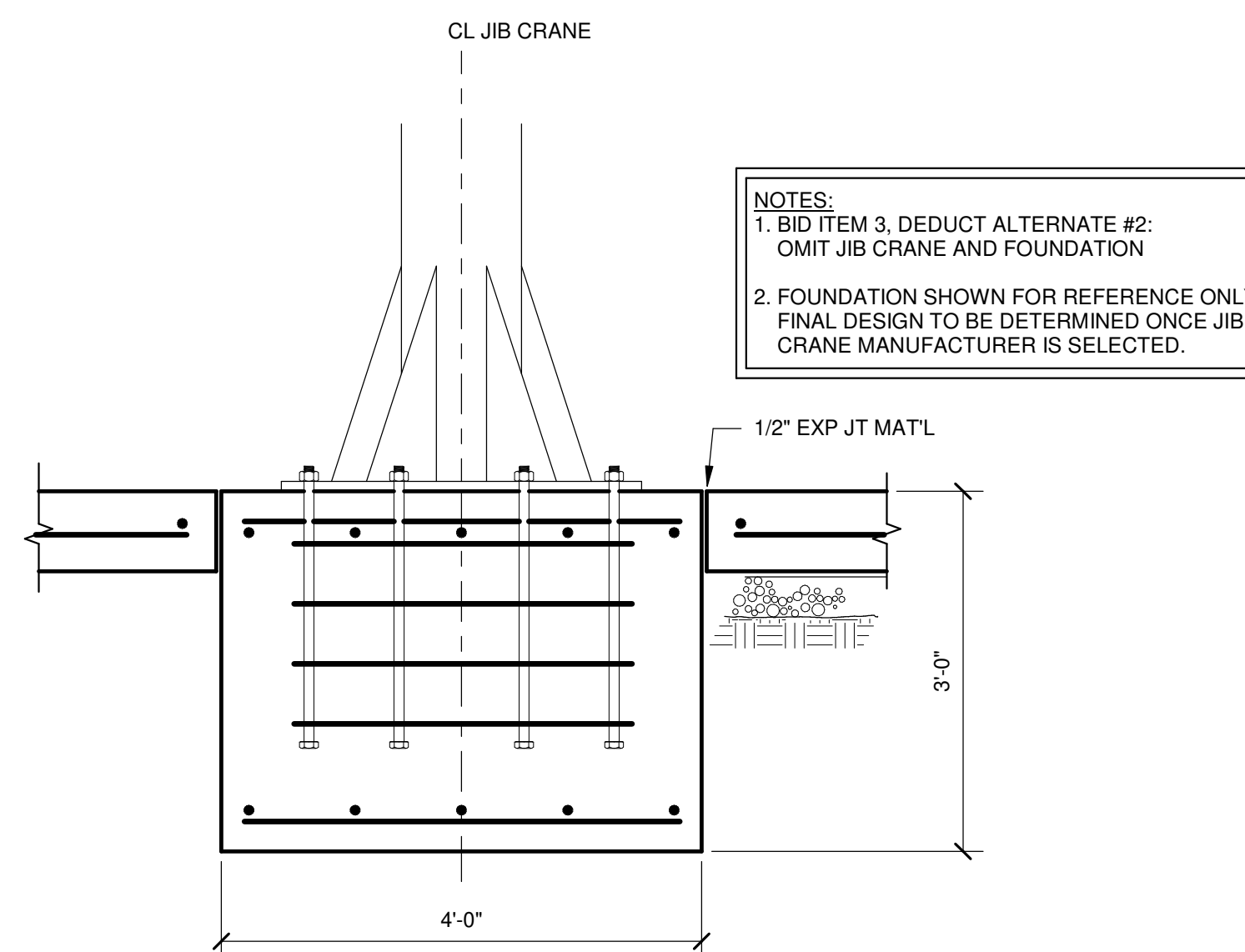
COLUMN SCHEDULE		
MARK	COLUMN SIZE	NOTES
C1	W12x53	GRAVITY COLUMN, SEE SHEET SB101 FOR BASE PLATES & ANCHOR BOLTS



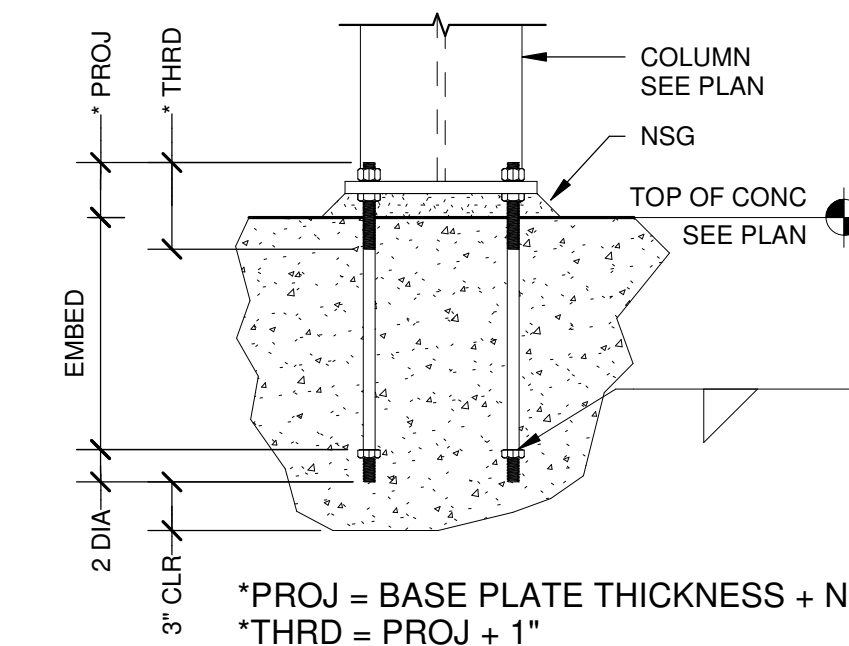
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	   										PUMP HOUSE FOUNDATION & FRAMING LAYOUT		CONSTRUCTION DOCUMENTS	CONSTRUCT NEW WATER STORAGE FACILITY		564-19-101		
	FIRE PROTECTION FP&C CONSULTANTS KC, LLC				STRUCTURAL ENGINEER BERNHARD TME						Approved: Project Director		FULLY SPRINKLERED	Location FAYETTEVILLE, AR		Building Number .		
	1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116				BUILDING 2, 1 ALLIED DRIVE SUITE 2600 LITTLE ROCK, AR 72202									Issue Date 2022.07.15		Checked KB	Drawn AW	Drawing Number S100
Date:	801 CORPORATE DRIVE LEXINGTON, KY 40503				501-404-4811 jde@JohnsonDanforth.com LJDA PROJECT #: 2018.001						U.S. Department of Veterans Affairs							

NOTES:

1. CONTRACTOR MAY USE EITHER KEYED COLD JOINTS OR SAWN JOINTS WHERE CJ IS NOTED ON PLAN
2. D = DEPTH OF SLAB
3. CUT REINF 3" EA SIDE OF JOINT

**B1** SLAB CONST DETAIL
3/4" = 1'-0"**D1** SECTION AT JIB CRANE
3/4" = 1'-0"

ANCHOR BOLT SCHEDULE		
DIA	EMBEDMENT	NSG
3/4"	1'-3"	1 1/2"



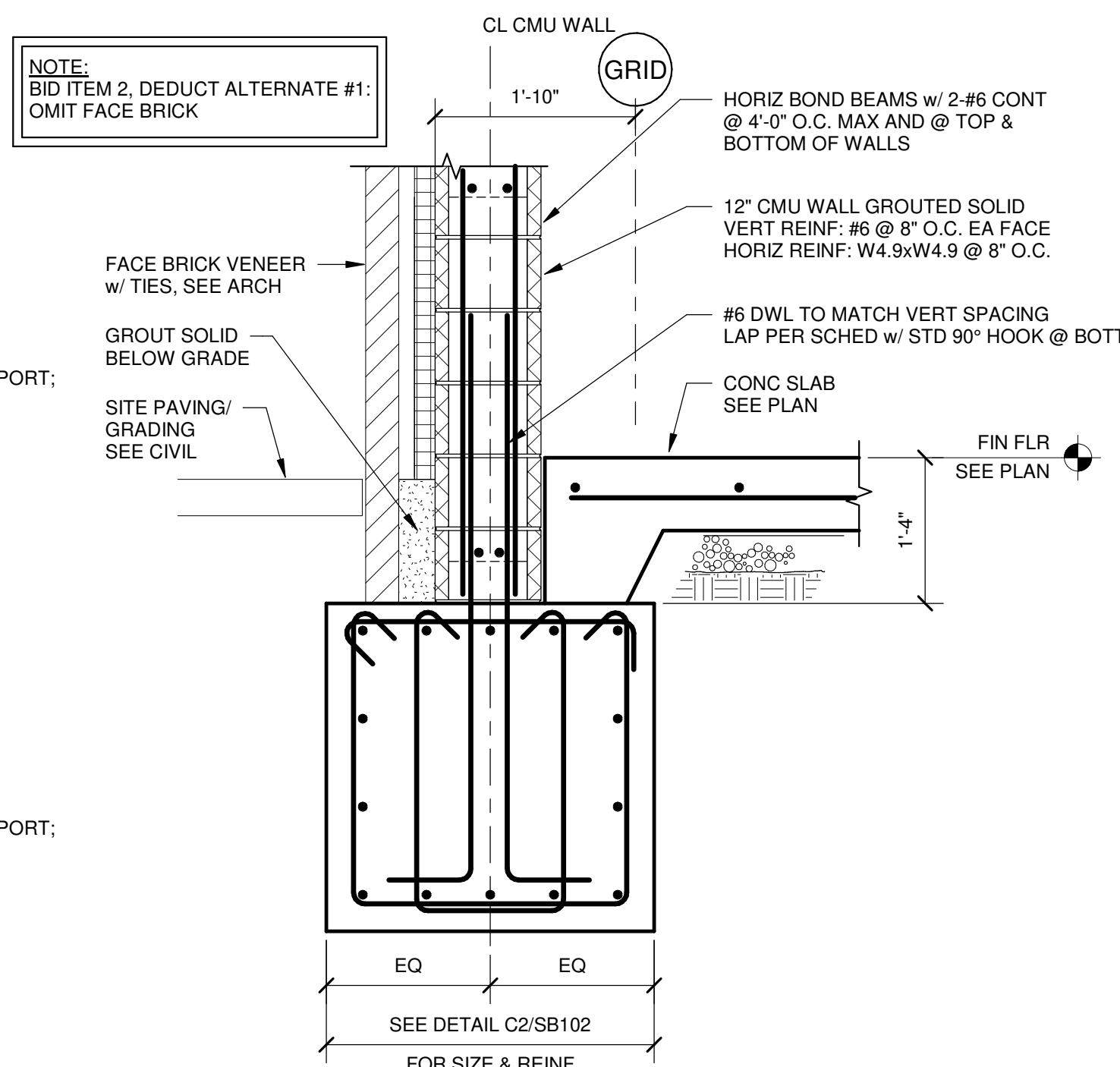
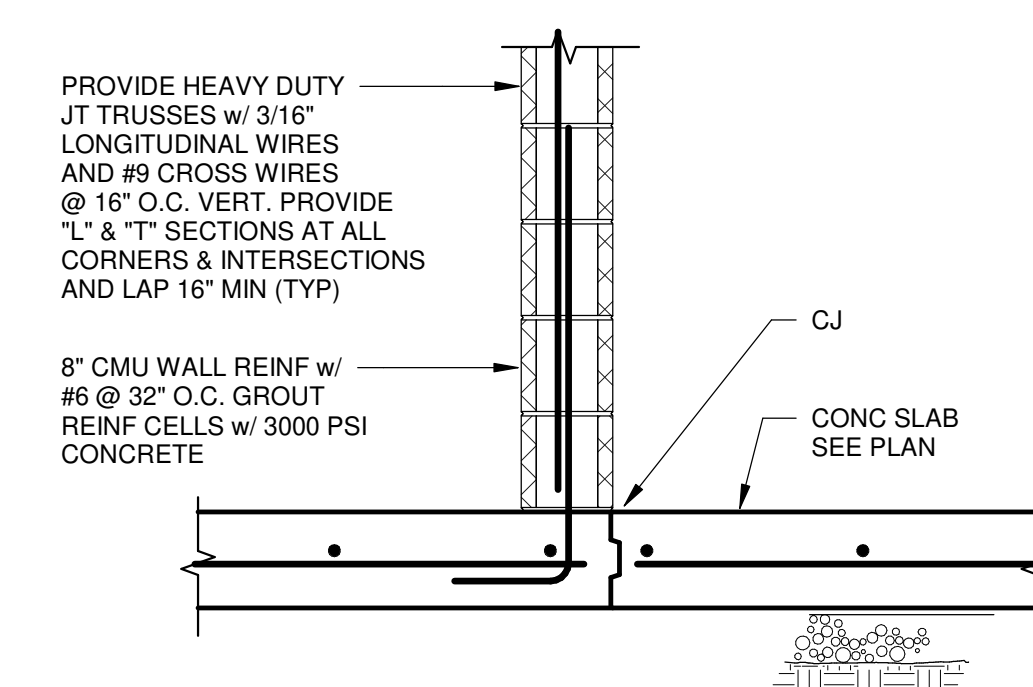
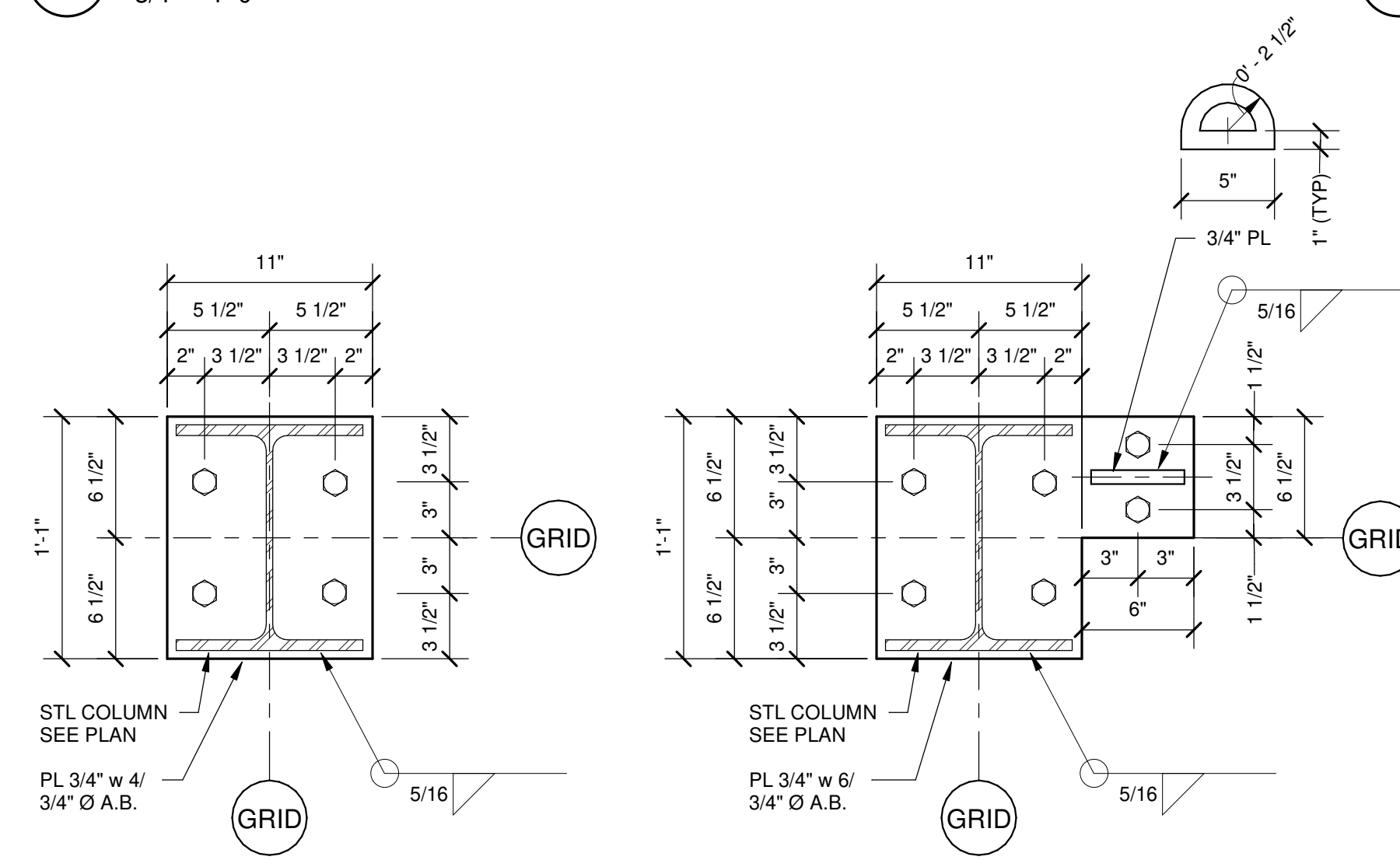
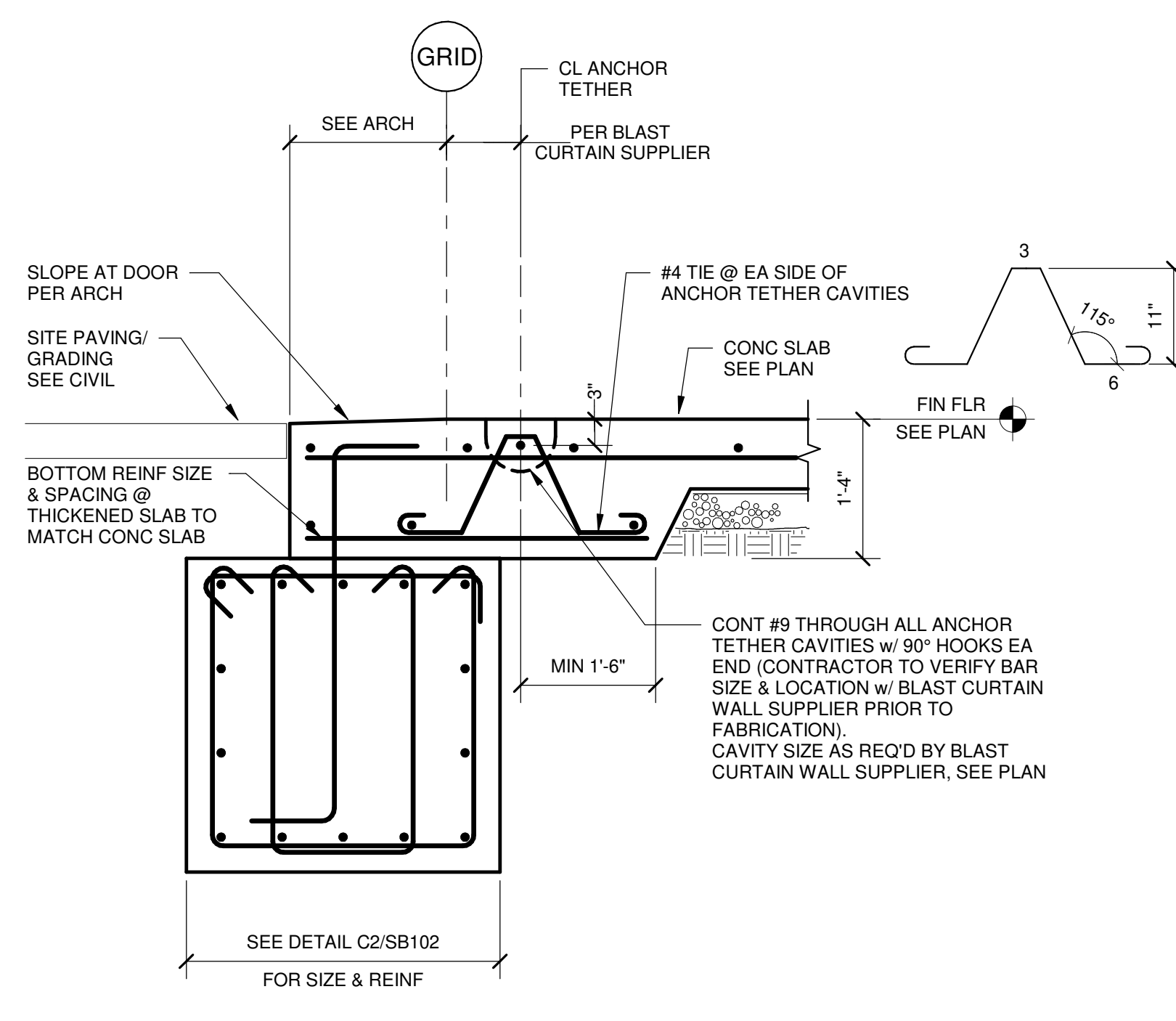
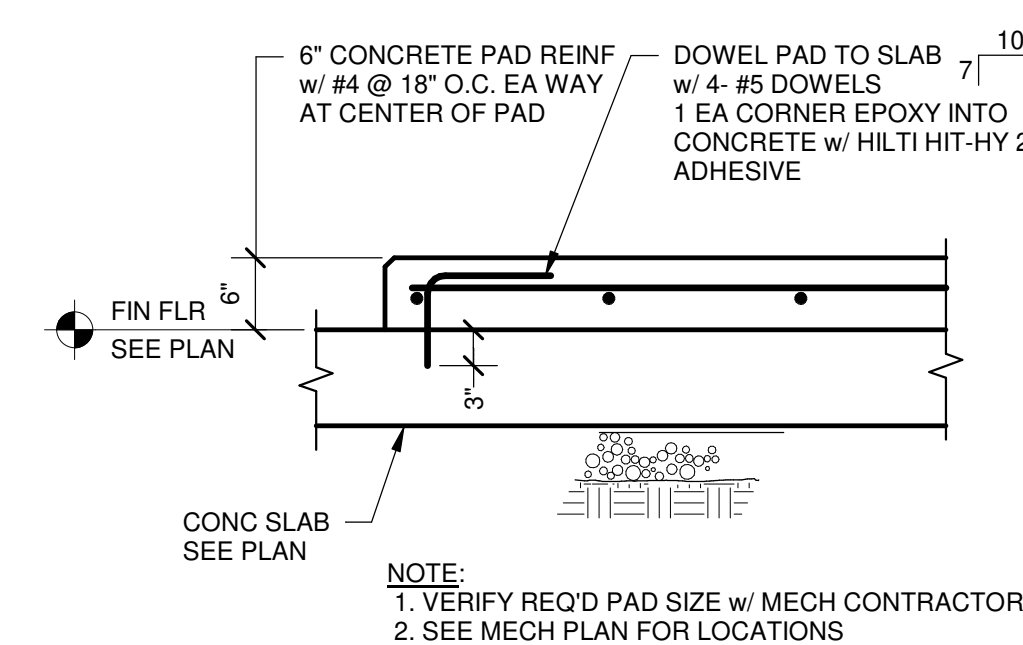
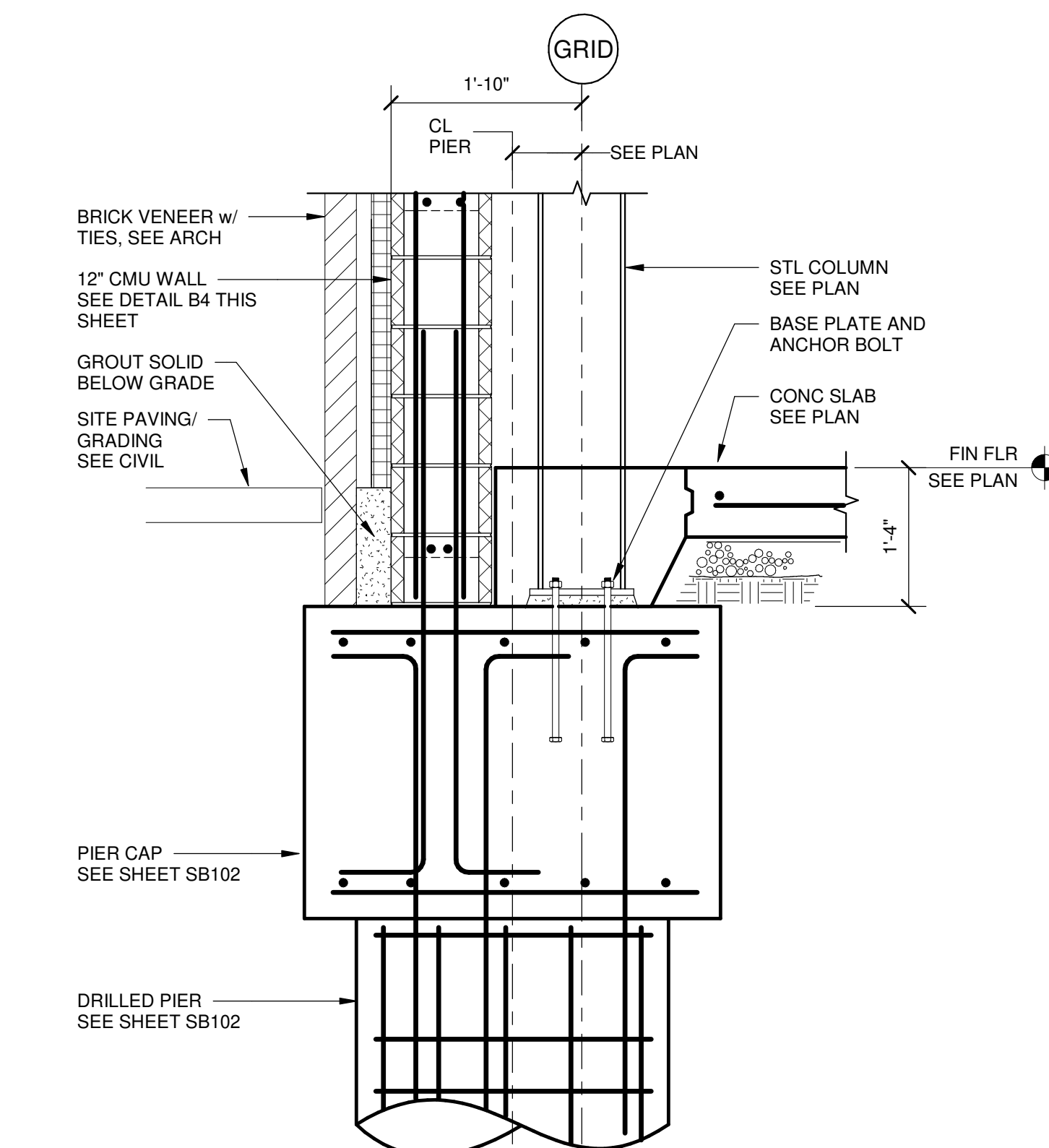
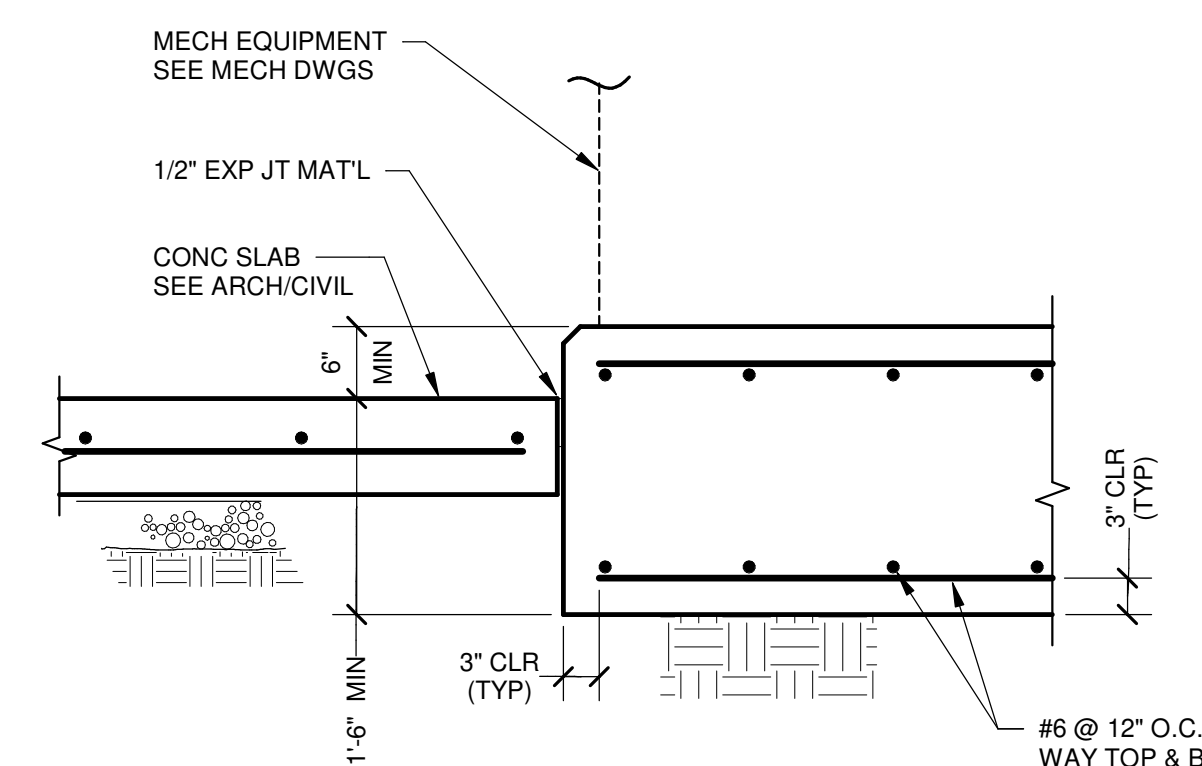
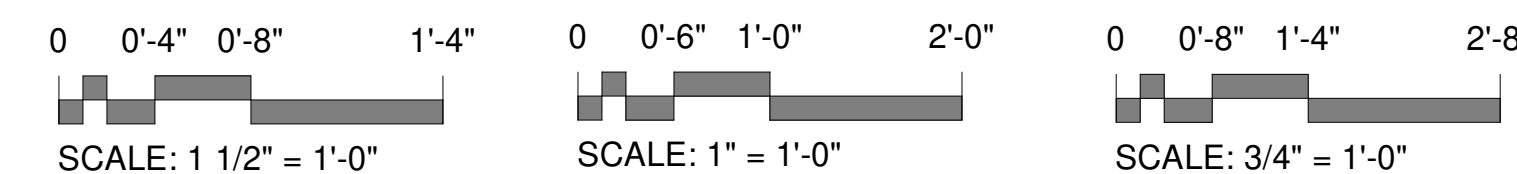
NOTES:

1. ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F1554 GR55.
2. ALL ANCHOR BOLTS SHALL BE FURNISHED WITH HEX NUTS AND CUT WASHERS OF SPECIFICATIONS COMPATIBLE WITH THOSE OF THE THREADED SHANKS UNLESS NOTED OTHERWISE.
3. FOR CONVENTIONAL COLUMNS (W & HSS SHAPES) A NUT SHALL BE PLACED UNDER THE BASE PLATE AND USED FOR LEVELING.
4. HEADED BOLTS MAY BE SUBSTITUTED FOR BOLTS AS SHOWN.

F1 TYPICAL ANCHOR BOLT DETAIL
1" = 1'-0"

NOTE:

- BID ITEM 2. DEDUCT ALTERNATE #1:
OMIT FACE BRICK

**B4** SECTION AT EXTERIOR
3/4" = 1'-0"**D4** SECTION AT INTERIOR CMU WALL
3/4" = 1'-0"**F4** BASE PLATES
1 1/2" = 1'-0"**B6** SECTION AT ENTRY
3/4" = 1'-0"**D6** TYPICAL HOUSEKEEPING PAD
3/4" = 1'-0"**B8** SECTION AT EXTERIOR COLUMN
3/4" = 1'-0"**D8** SECTION AT MECH EQUIPMENT PAD
3/4" = 1'-0"

CONSULTANTS

FPC
CONSULTANTS
FIRE PROTECTION
FP&C CONSULTANTS KC, LLCSECURITY
GRW
1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116201 CORPORATE DRIVE
LEXINGTON, KY 40503**Hodges Engineering**
CIVIL ENGINEER
HODGES ENGINEERING231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653**Bernhard TME**
ENGINEERING
STRUCTURAL ENGINEER
BERNHARD TMEBUILDING 2, 1 ALLIED DRIVE
SUITE 2000
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

J/A/E
JohnsonDanforth & Associates
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SUITE 210
LITTLE ROCK, AR 72212
501-404-4811
jda@johnsondanforth.com
LJDA PROJECT #: 2018.001**JD**
a

STAMP

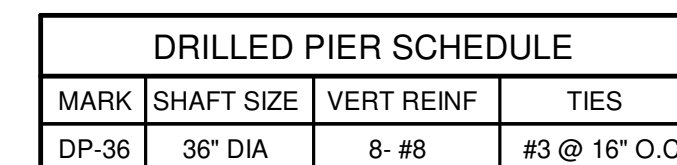
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REGISTERED
PROFESSIONAL
ENGINEER
No. 12944
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Construction
and Facilities
Management**VA** U.S. Department
of Veterans AffairsDrawing Title
FOUNDATION SECTIONS

Approved: Project Director

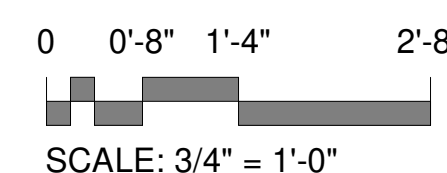
Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

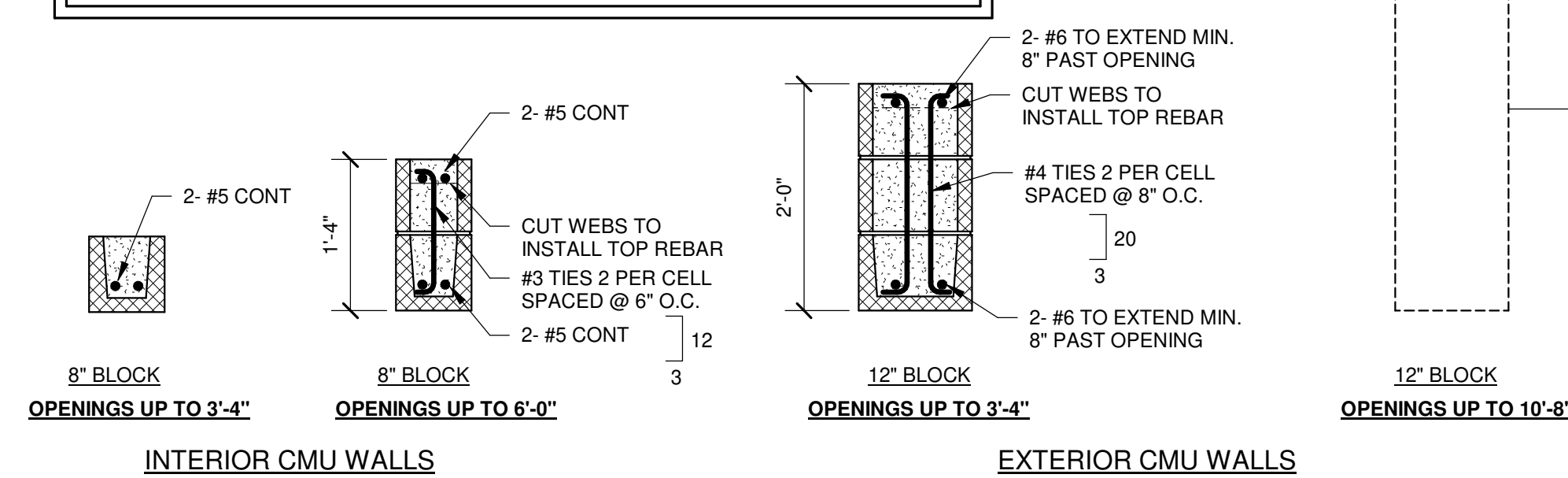
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CONSTRUCT NEW WATER
STORAGE FACILITYLocation
FAYETTEVILLE, ARIssue Date
2022.07.15Checked
KBDrawn
AWProject Number
564-19-101Building Number
.Drawing Number
SB101



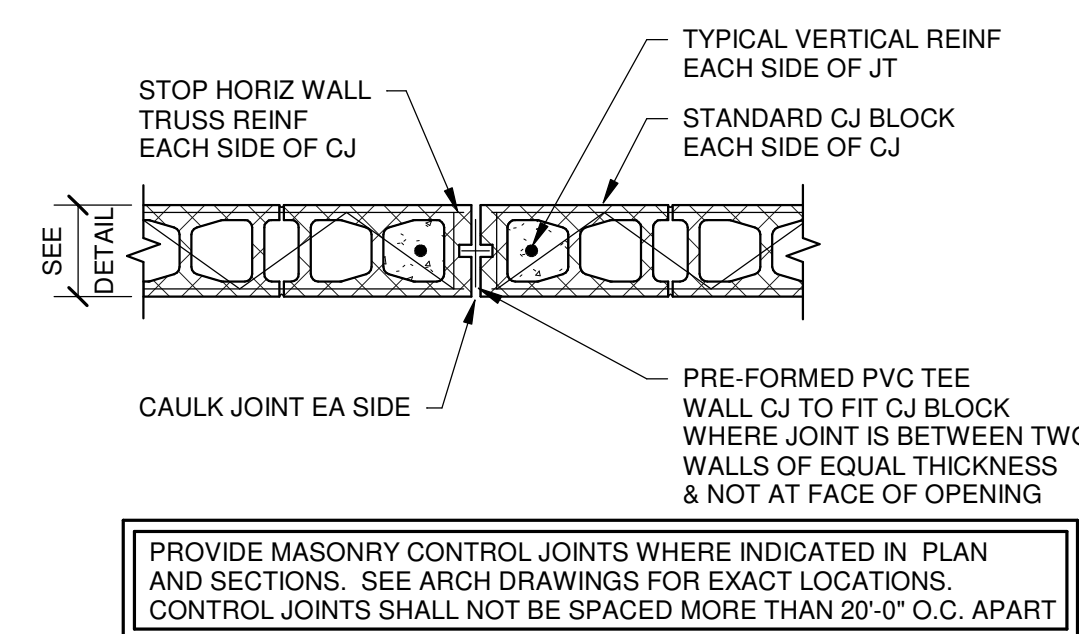
C4 TYPICAL GRADE BEAM CJ DETAIL
3/4" = 1'-0"



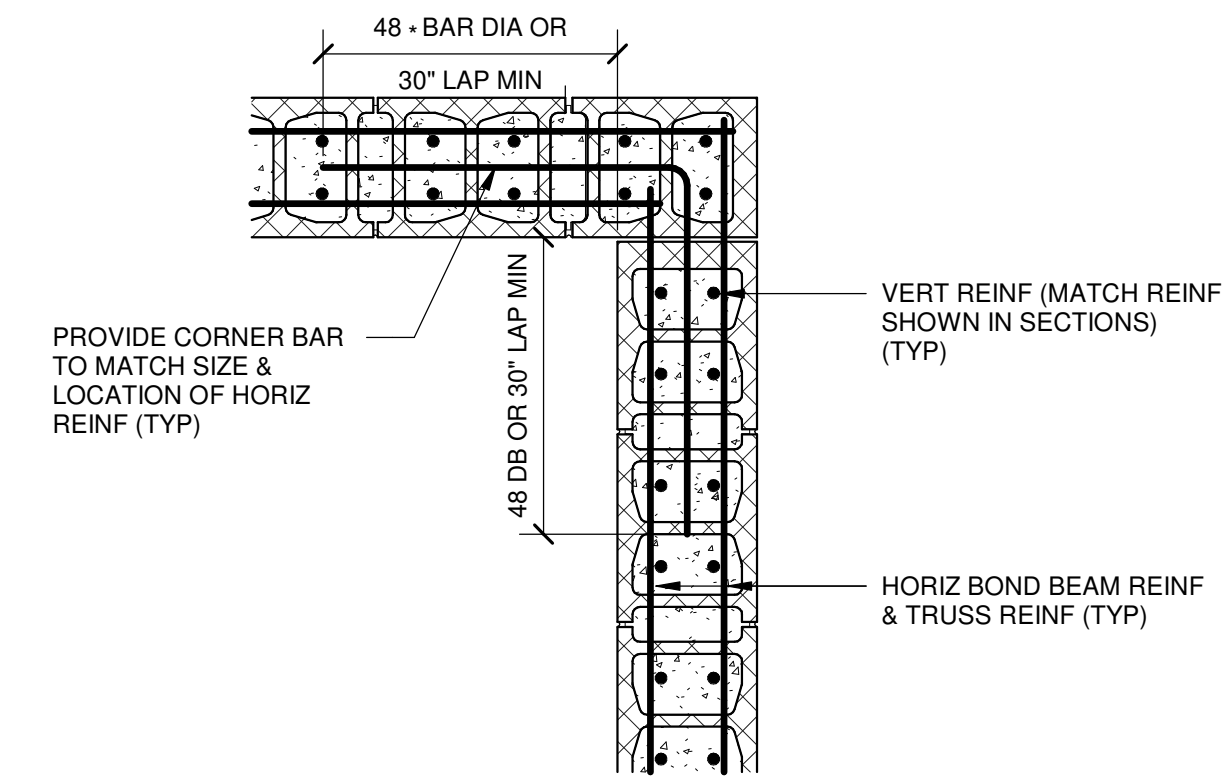
- NOTES:**
1. LINTEL DETAILS APPLY UNLESS NOTED OR DETAILED OTHERWISE.
 2. 8" MIN BEARING EACH END UNLESS NOTED OTHERWISE.
 3. SEE ARCH FOR LOCATION AND SIZE OF ALL OPENINGS IN MASONRY.
 4. LINTEL DETAILS ARE BASED ON THE REQUIREMENT THAT ALL VERTICAL CONTROL JOINTS IN MASONRY OCCUR AT LEAST 8" BEYOND END OF OPENING (UNLESS NOTED OR DETAILED OTHERWISE) IF THIS REQUIREMENT CANNOT BE MET, THEN THE GENERAL CONTRACTOR MUST CONTACT THE STRUCTURAL ENGINEER IN WRITING FOR FURTHER INSTRUCTIONS.
 5. PROVIDE 1 #6 VERT REINF FULL WALL HEIGHT SOLID GROUTED MASONRY JAMB UNDER LINTEL EACH SIDE OF OPENING.
 6. THESE ARE TYPICAL BLOCK LINTEL DETAILS TO BE USED UNLESS NOTED OR DETAILED OTHERWISE IN SECTIONS.



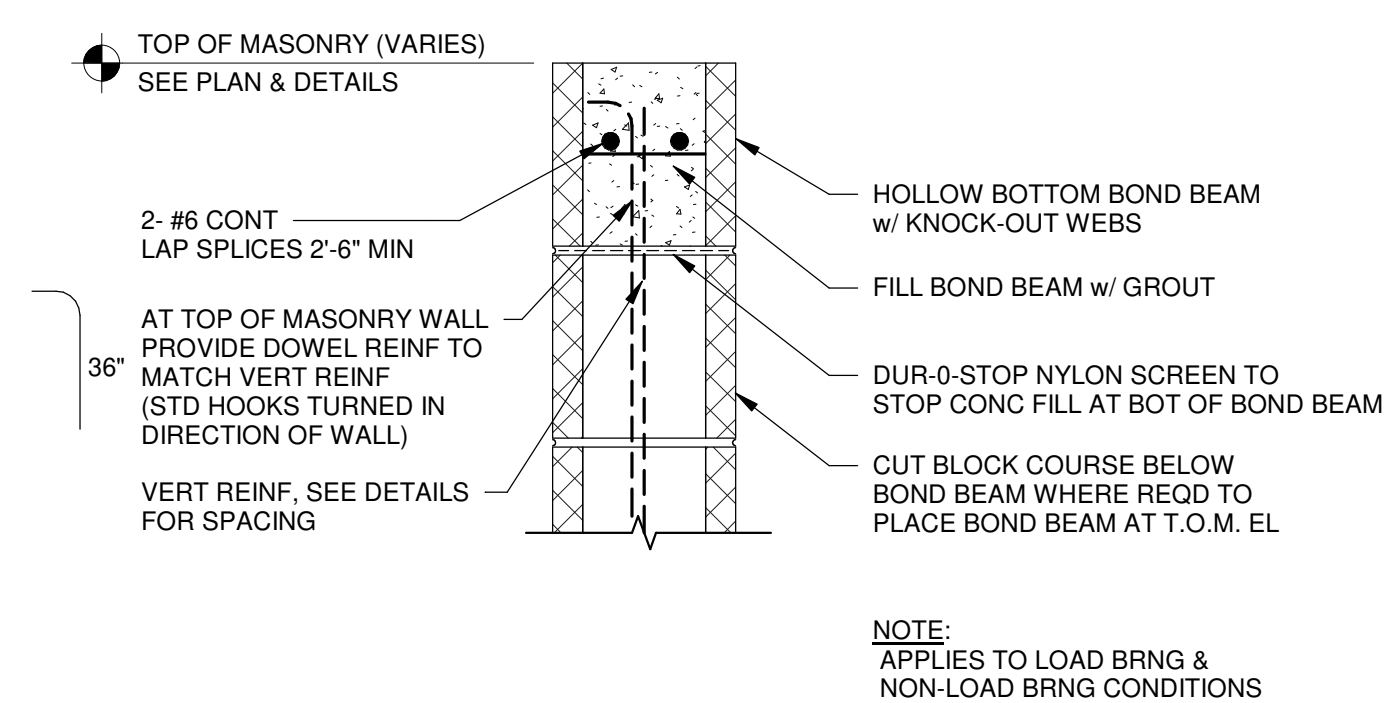
B1 TYPICAL BLOCK LINTEL DETAILS
3/4" = 1'-0"



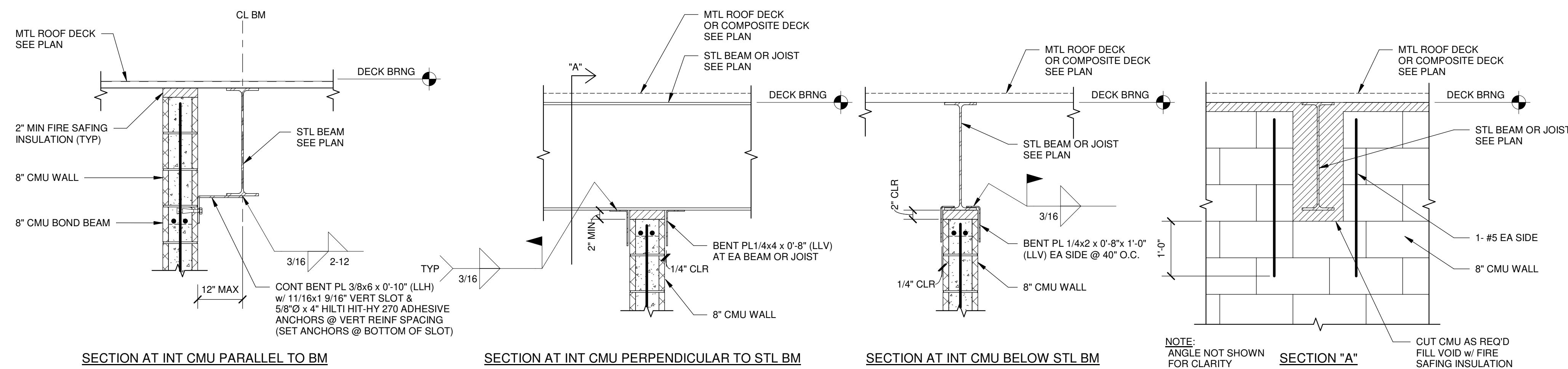
B4 TYPICAL MASONRY WALL CJ
3/4" = 1'-0"



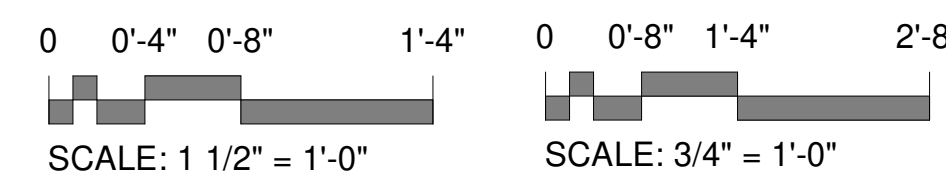
B6 TYPICAL CORNER MASONRY WALL REINF DETAIL
3/4" = 1'-0"









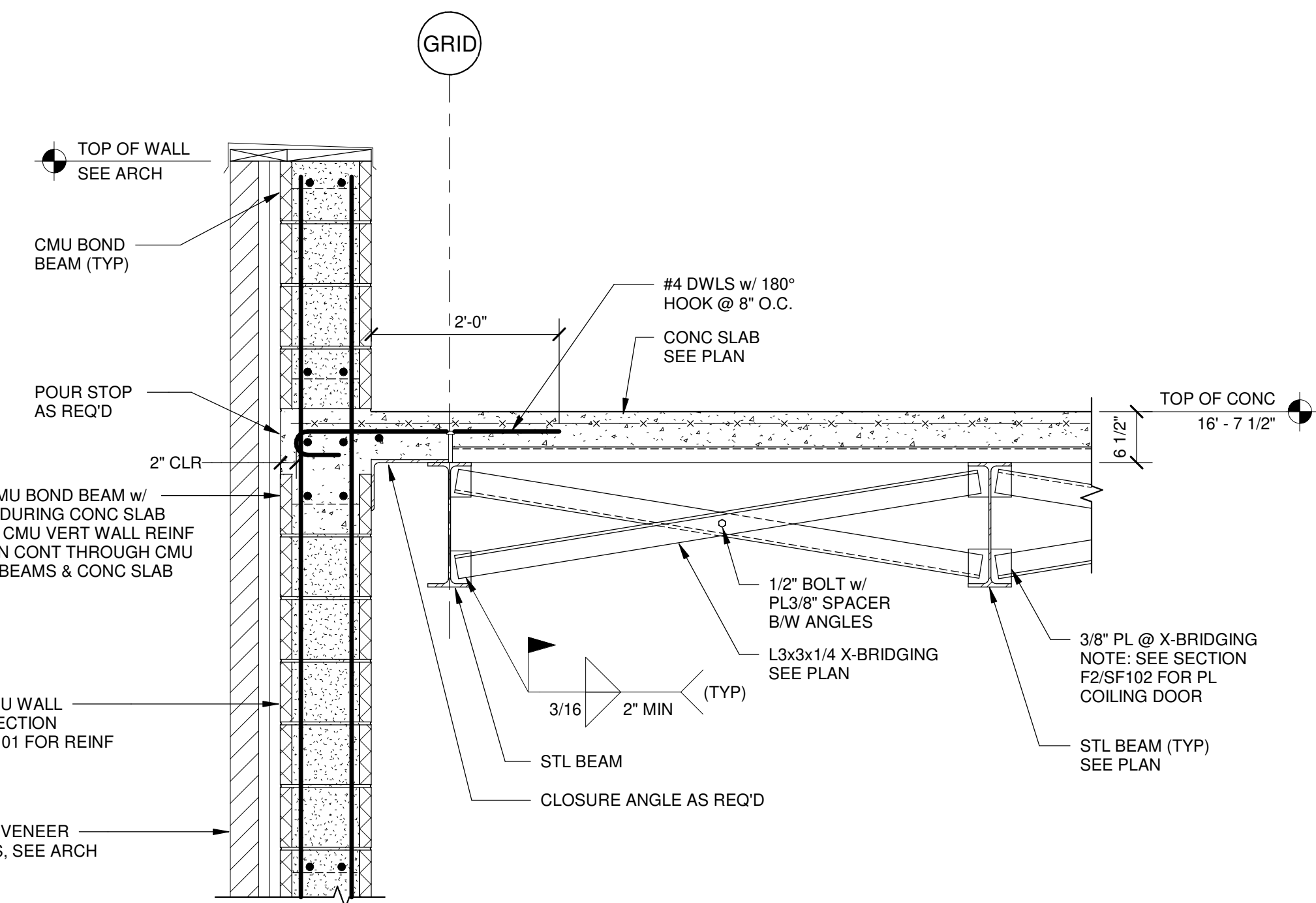
B9 TYPICAL BOND BEAM DETAIL
1 1/2" = 1'-0"



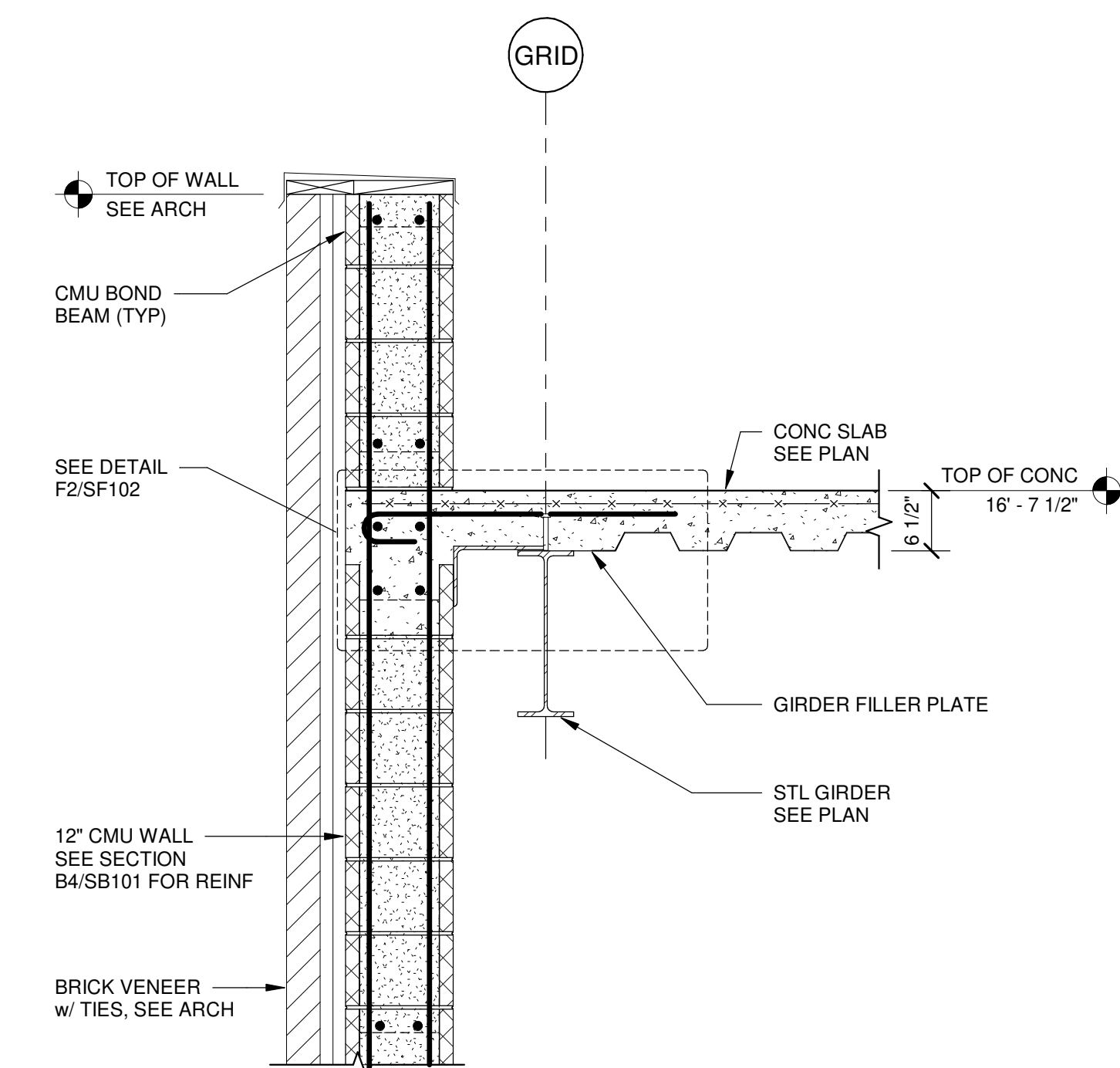
D1 SECTIONS AT CMU WALL TO STRUCTURE
3/4" = 1'-0"



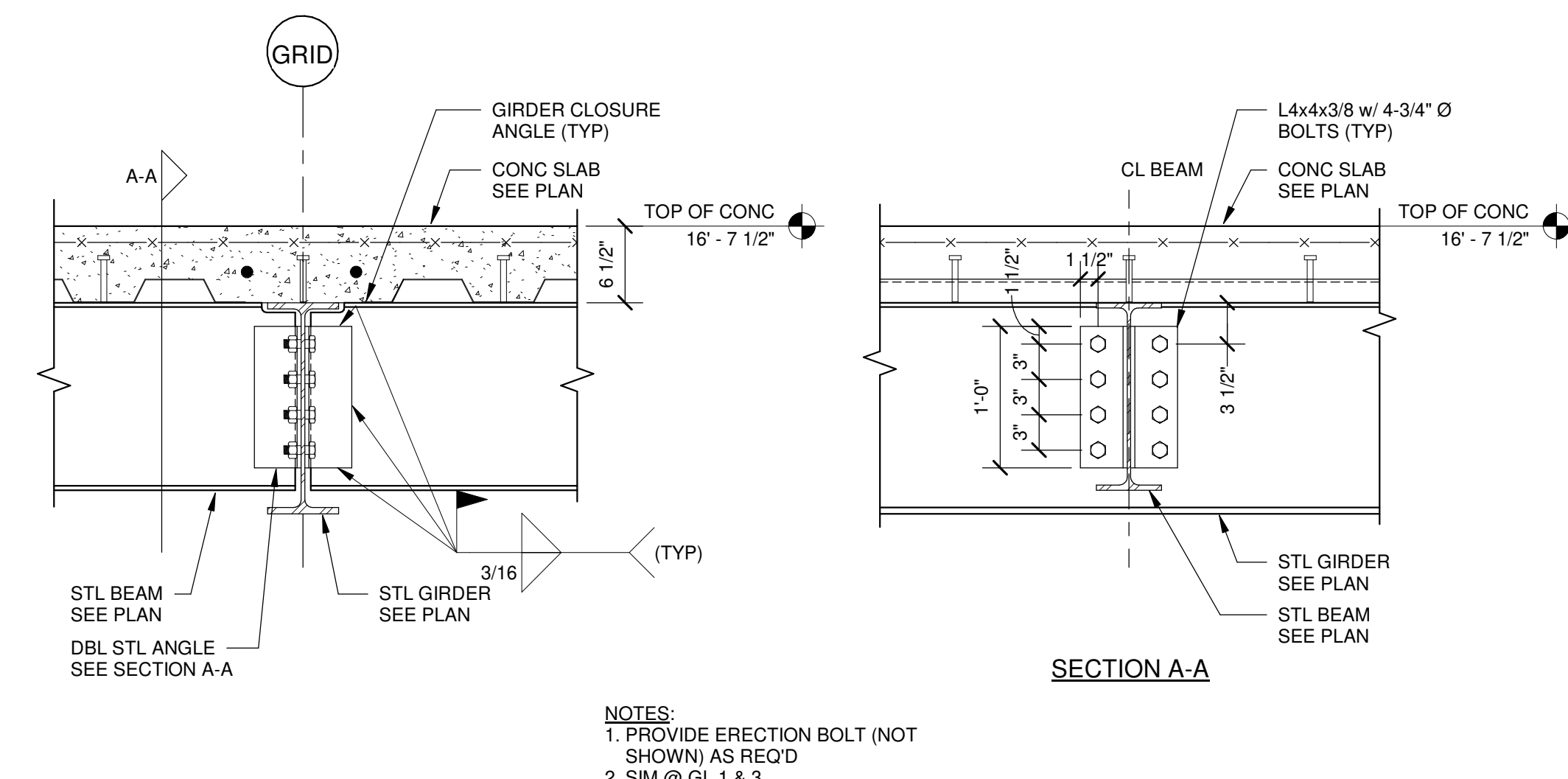
Revisions:		Date:		CONSULTANTS				ARCHITECT/ENGINEER OF RECORD				STAMP		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title FRAMING SECTIONS		Phase CONSTRUCTION DOCUMENTS		Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101			
																		Approved: Project Director		FULLY SPRINKLERED		Location FAYETTEVILLE, AR		Building Number .	
				FIRE PROTECTION FP&C CONSULTANTS KC, LLC		SECURITY GRW		CIVIL ENGINEER HODGES ENGINEERING		STRUCTURAL ENGINEER BERNHARD TME															
				1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116		801 CORPORATE DRIVE LEXINGTON, KY 40503		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653		BUILDING 2, 1 ALLIED DRIVE SUITE 2600 LITTLE ROCK, AR 72202															
										A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001		7/15/2022								Drawing Number SF101					



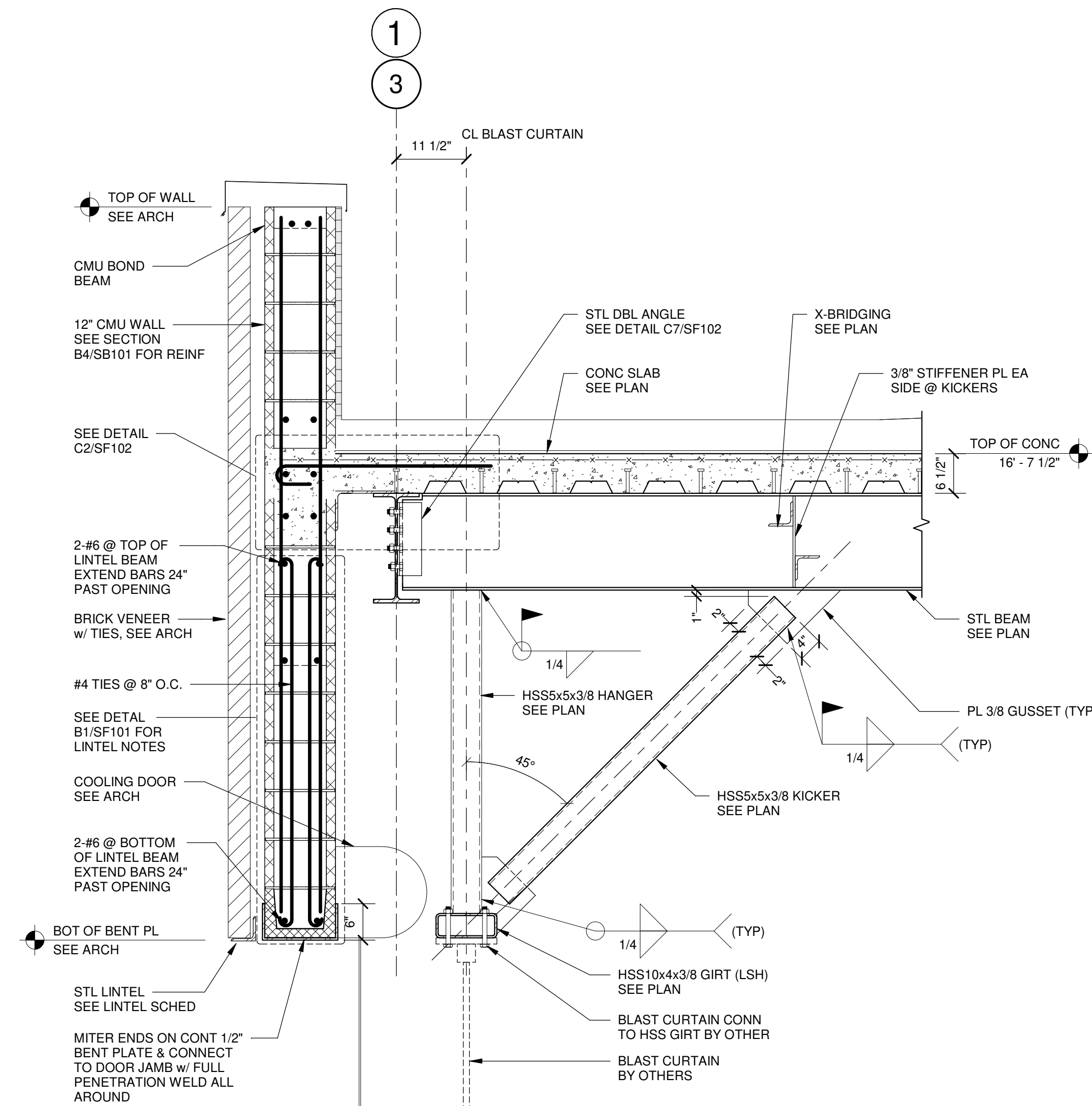
C2 SECTION AT EXTERIOR
3/4" = 1'-0"



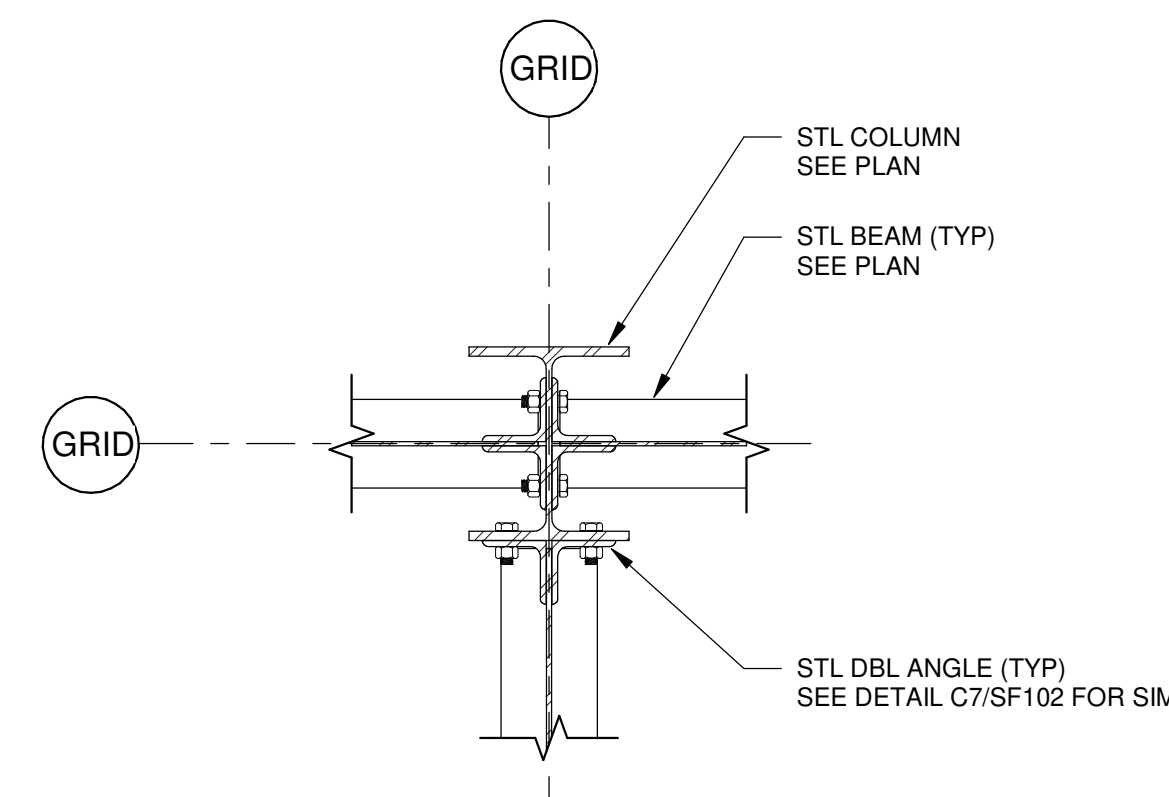
C5 SECTION AT EXTERIOR
3/4" = 1'-0"



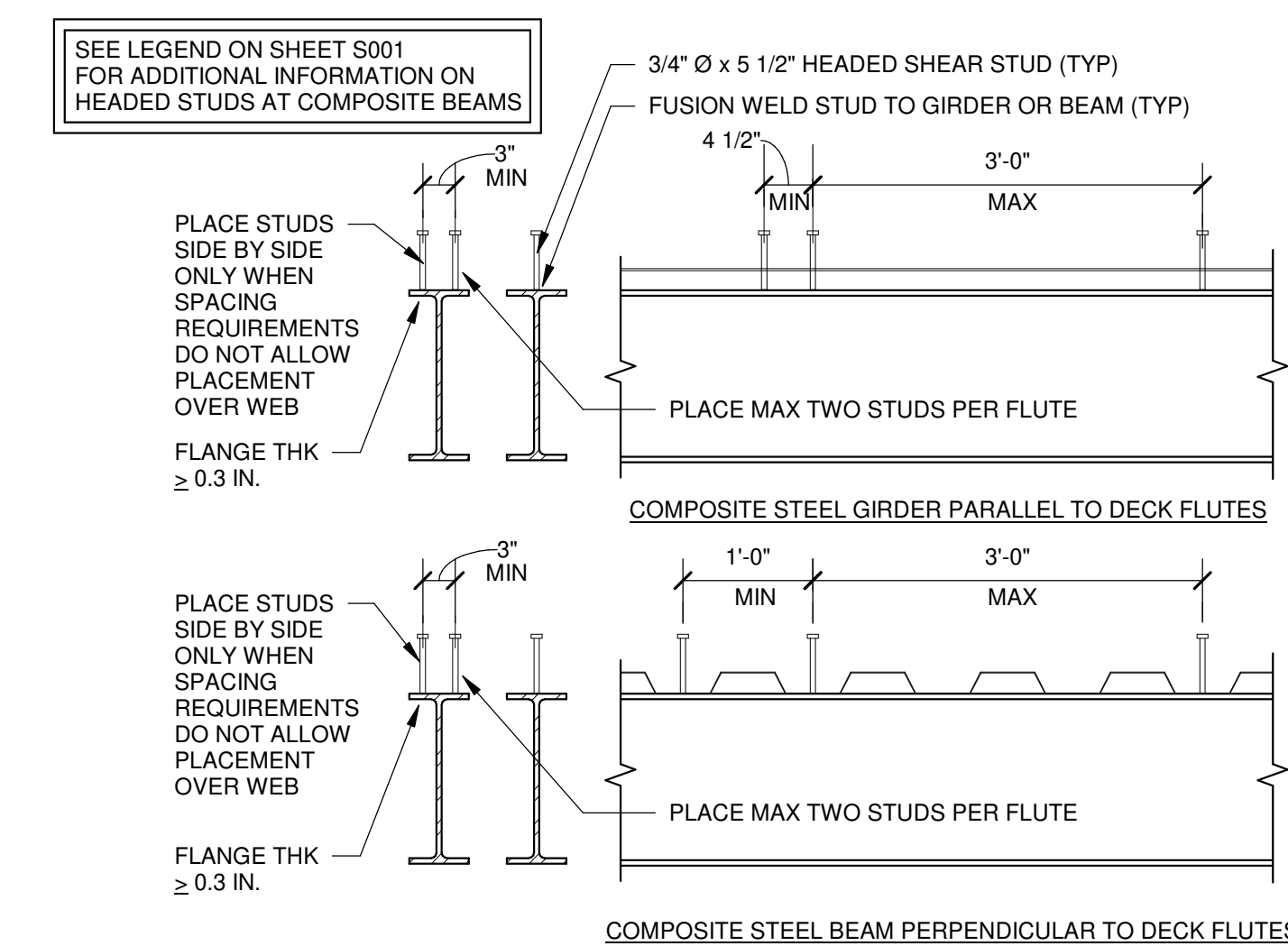
C7 TYPICAL SECTION AT STEEL BEAM CONN
1" = 1'-0"



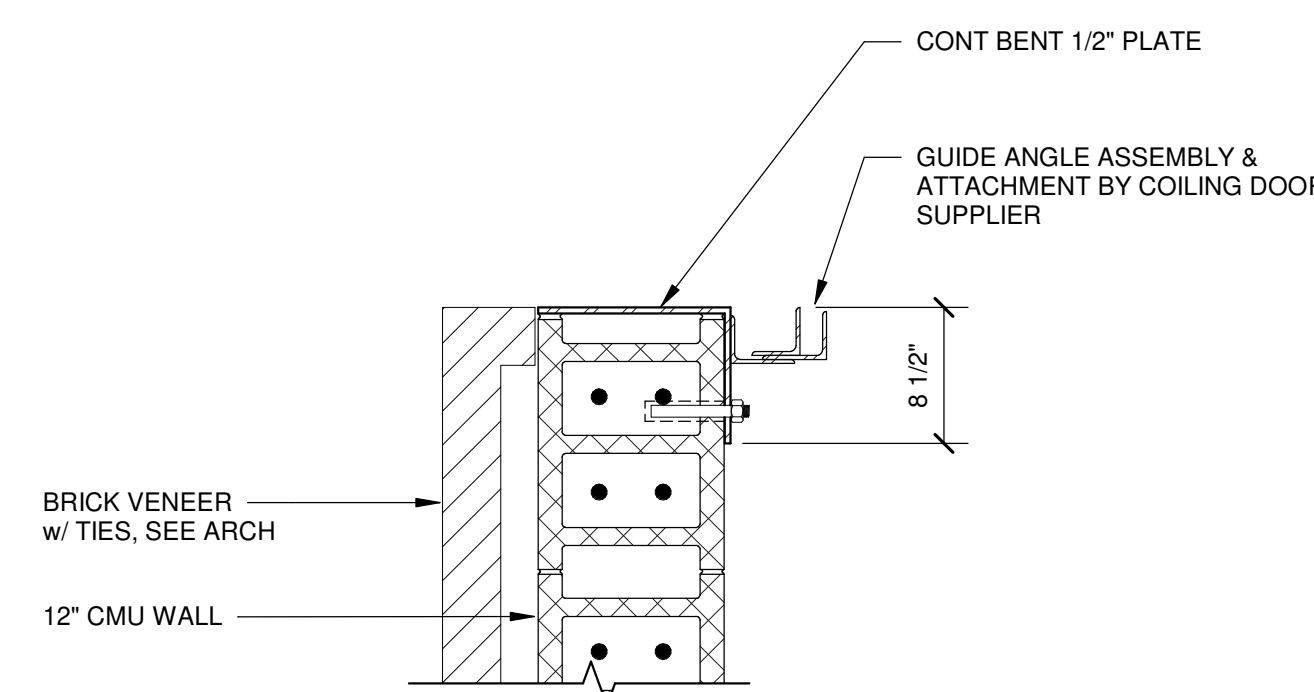
F2 SECTION AT COILING DOOR
3/4" = 1'-0"



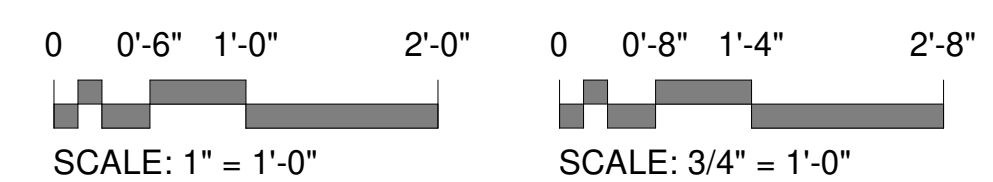
D5 TYPICAL BEAM TO COLUMN CONN
1" = 1'-0"



D7 TYPICAL SHEAR STUD SPACING DETAIL
3/4" = 1'-0"



F5 SECTION AT COILING DOOR JAMB
1" = 1'-0"



\\nas01\shared\2\mecon\com\02\1\101-21-01223_Construction Docs\1_Dwg\1_Working Set\01-01-0122 STIR

Revisions: Date:

CONSULTANTS

FPC
CONSULTANTS
FIRE PROTECTION
FPC & CONSULTANTS INC, LLC

1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116

SECURITY
GRW

801 CORPORATE DRIVE
LEXINGTON, KY 40503

CIVIL ENGINEER
HODGES ENGINEERING

231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653

STRUCTURAL ENGINEER
BERNHARD TME

BUILDING 2, 1 ALLIED DRIVE
SUITE 2000
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

A/E
JohnsonDanforth & Associates

2200 N. RODNEY PARHAM ROAD
SUITE 210
LITTLE ROCK, AR 72212

501-404-4811
jda@johnsondanforth.com

LJDA PROJECT #: 2018.001

STAMP

Professional Engineer
No. 12944
7/15/2022

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

FRAMING SECTIONS

Approved: Project Director

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

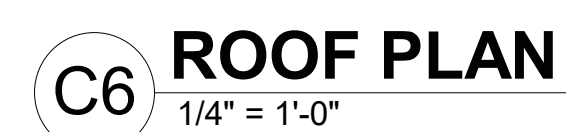
CONSTRUCT NEW WATER STORAGE FACILITY

Location
FAYETTEVILLE, AR
Issue Date
2022.07.15

Project Number

564-19-101

Building Number
Drawing Number
SF102



0 2' 4' 8'

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

SHEET NOTES

- | | |
|-------|------------------------------------|
| 04.03 | BRICK CONTROL JOINT: REF. F2/AE501 |
| 07.01 | SHEET METAL ROOF COLLECTION BOX |
| 07.02 | SHEET METAL DOWNSPOUT & SUPPORTS |
| 07.03 | ROOF TYPE TPO. REF: SHEET AE501 |
| 07.12 | SHEET METAL PARAPET CAP FLASHING |
| 10.01 | FIRE EXTINGUISHER ON BRACKET (VV) |
| 10.02 | SUSPENDED BLAST CURTAIN |
| 10.51 | EXTERIOR SIGN (TYPE) |
| 10.52 | INTERIOR SIGN (TYPE) |
| 21.01 | SPRINKLER RISER |
| 23.06 | GENERATOR EXHAUST FLUE |

NEW UNRATED PARTITION

NEW 1 HOUR CMU BARRIER
UL U906

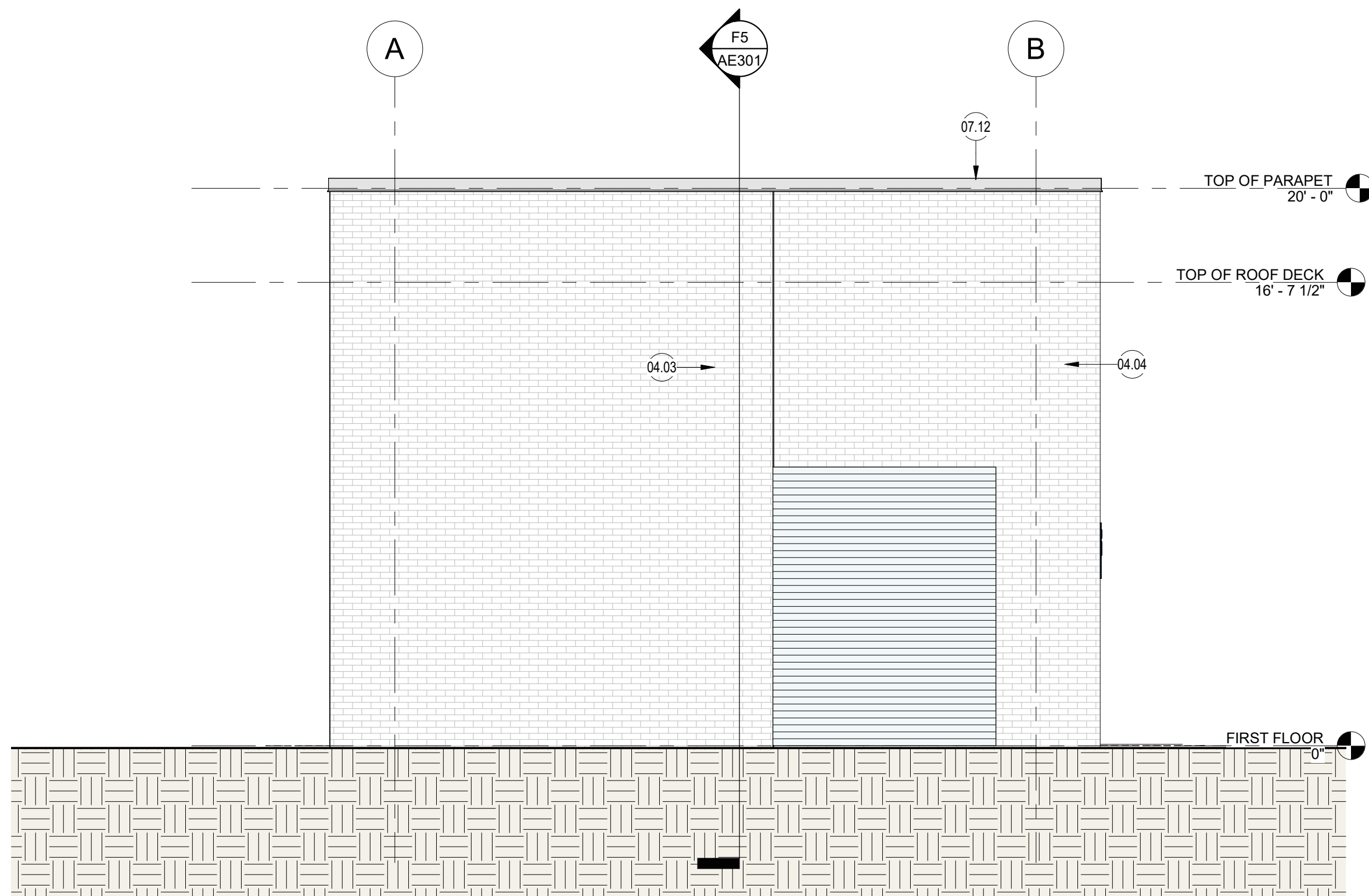
17/10/2022 9:00 AM

GENERAL NOTES

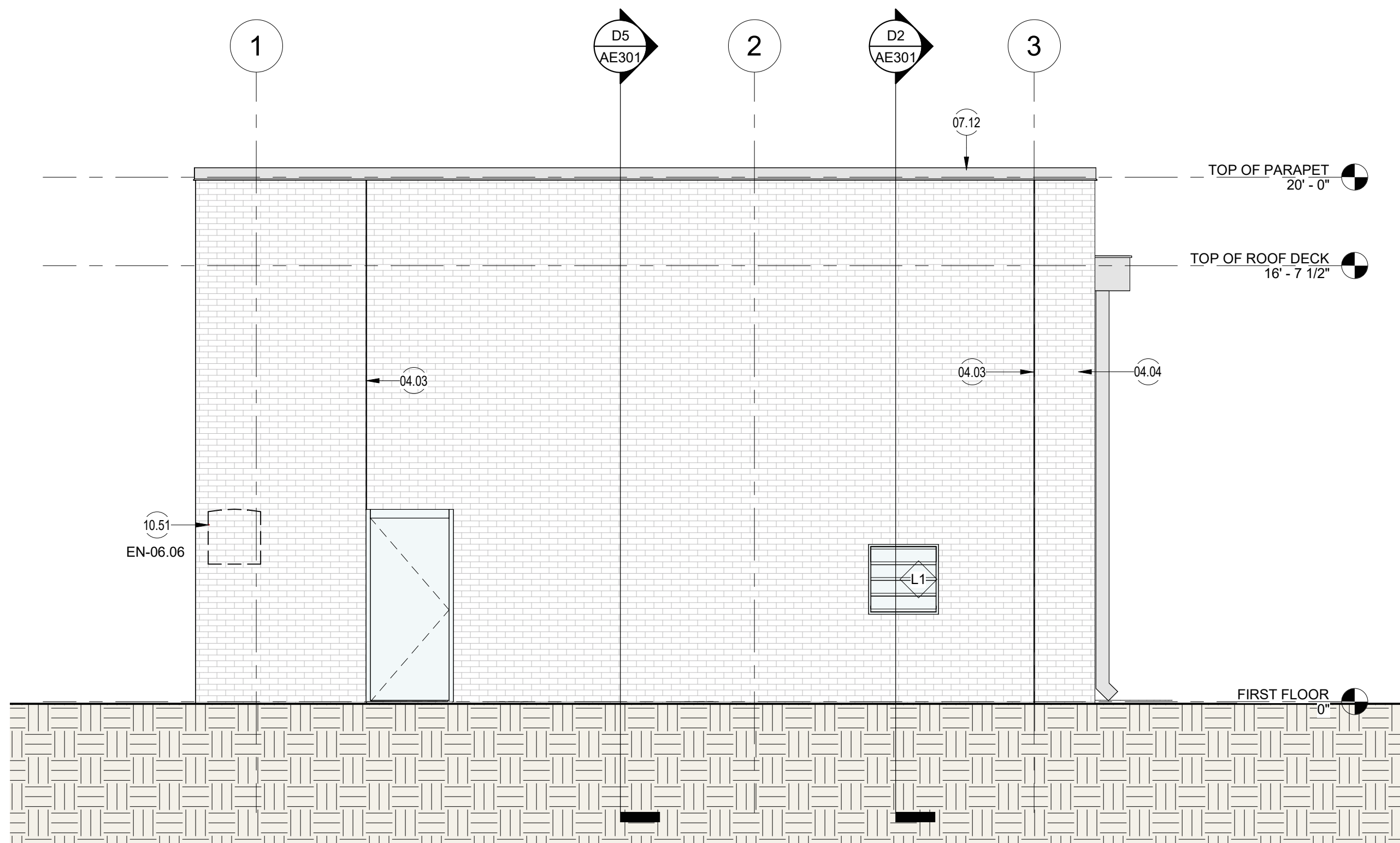
- REFER TO GENERAL NOTES ON SHEET AE101 WHICH APPLY TO ENTIRE PROJECT.
- FACE BRICK IS TO MATCH EXISTING CAMPUS STANDARD. SUBMIT SAMPLE BOARD OF BRICK AND MORTAR TO COR AND OBTAIN WRITTEN APPROVAL BY COR BEFORE BID OPENING.
- IF DEDUCT ALTERNATE #1 (OMIT FACE BRICK) IS TAKEN, PAINT ALL CMU PER SECTION 09 91 00.
- PAINT ALL EXTERIOR OPENINGS TO MATCH FACE BRICK (OR COLOR APPROVED BY COR IF DEDUCT #1 IS TAKEN).

SHEET NOTES

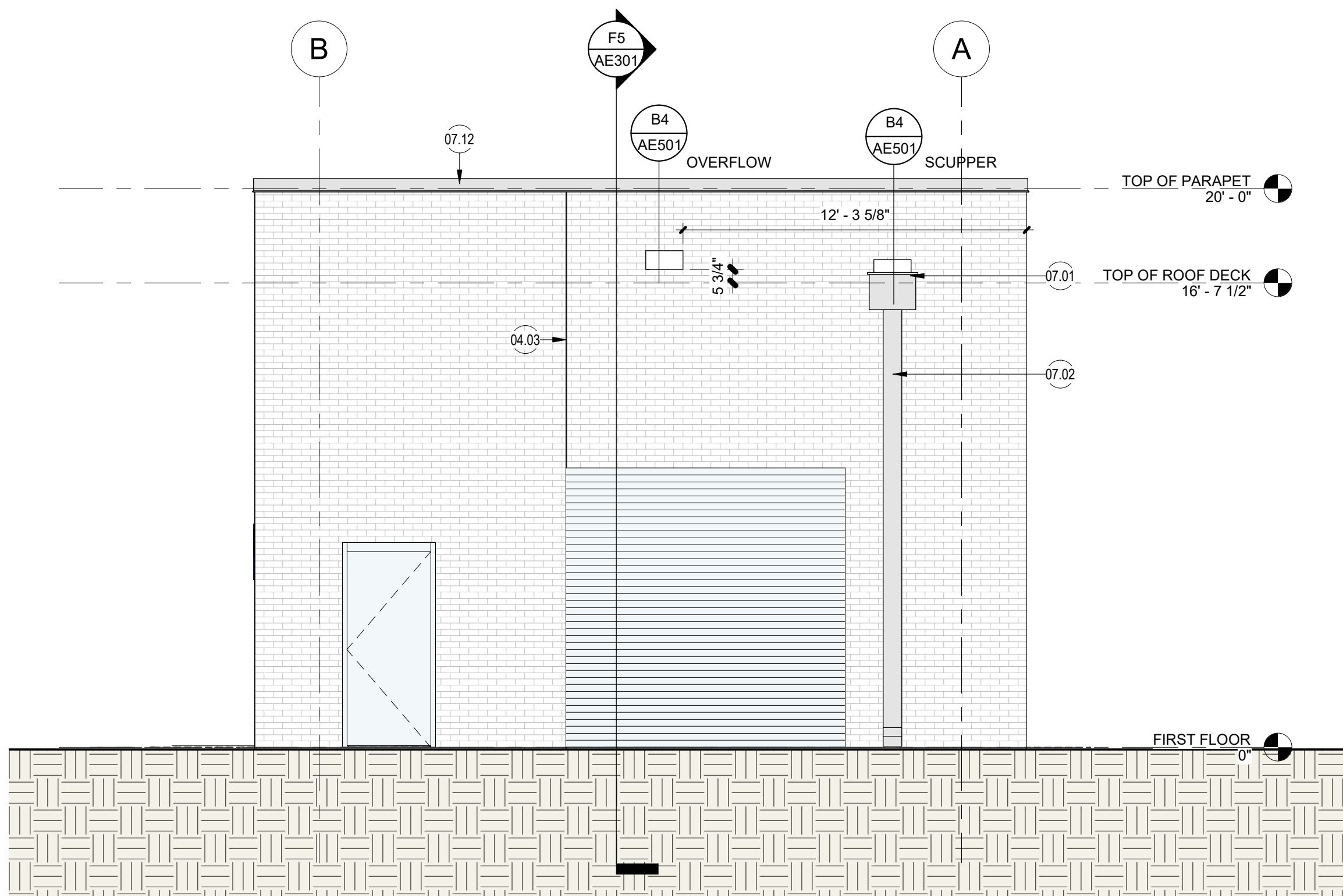
- 04.03 BRICK CONTROL JOINT. REF. F2/AE501
04.04 WALL TYPE E12. REF. SHEET AE501
07.01 SHEET METAL ROOF COLLECTION BOX
07.02 SHEET METAL DOWNSPOUT & SUPPORTS
07.12 SHEET METAL PARAPET CAP FLASHING
10.51 EXTERIOR SIGN (TYPE)



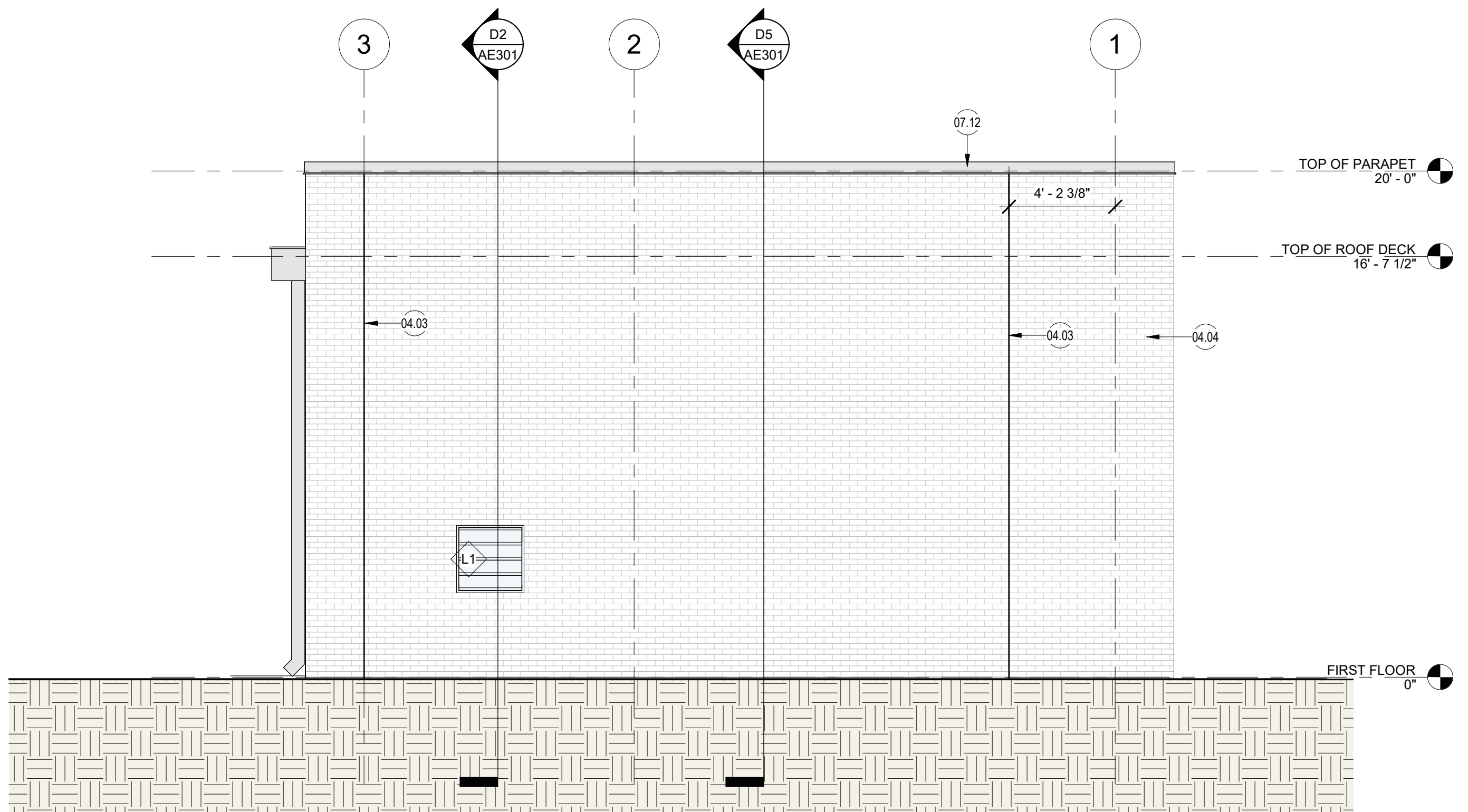
D2 WEST ELEVATION
1/4" = 1'-0"



D5 SOUTH ELEVATION
1/4" = 1'-0"



F2 EAST ELEVATION
1/4" = 1'-0"



F5 NORTH ELEVATION
1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

CONSULTANTS



FIRE PROTECTION
FPC CONSULTANTS KC, LLC

SECURITY
GRW



CIVIL ENGINEER
HODGES ENGINEERING

231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653



STRUCTURAL ENGINEER
BERNHARD TME

BUILDING 2, 1 ALLIED DRIVE
SUITE 200
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

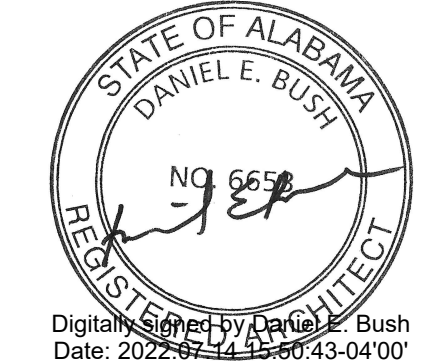
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jda@johnsondanforth.com

JDA PROJECT #: 2018.001



STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
EXTERIOR ELEVATIONS

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
BUSH

Drawn
DEB

Project Number
564-19-101

Building Number
39

Drawing Number
AE201

GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET AE101 WHICH APPLY TO ENTIRE PROJECT.

SHEET NOTES

- 03.03 STRUCTURAL CONCRETE ROOF DECK
04.02 STRUCTURAL MASONRY WALL PER STRUCTURAL DRAWINGS
04.04 WALL TYPE E12. REF: SHEET AE501
05.02 STRUCTURAL STEEL FRAMING
07.01 SHEET METAL ROOF COLLECTION BOX
07.02 SHEET METAL DOWNSPOUT & SUPPORTS
07.03 ROOF TYPE TPO. REF: SHEET AE501
07.12 SHEET METAL PARAPET CAP FLASHING
07.17 SHEET METAL SCUPPER LINER
08.07 FIXED BLADE BLAST RATED LOUVER
10.01 FIRE EXTINGUISHER ON BRACKET (V.V)
10.02 SUSPENDED BLAST CURTAIN
23.06 GENERATOR EXHAUST FLUE
26.01 GENERATOR AND BASE TANK - REF: ELECTRICAL

PARTITION LEGEND

- NEW UNRATED PARTITION
NEW 1 HOUR CMU BARRIER
UL U906

D2 CROSS SECTION 2
1/4" = 1'-0"

D5 CROSS SECTION
1/4" = 1'-0"

F5 LONGITUDINAL SECTION
1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

CONSULTANTS



FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

SECURITY
GRW

CIVIL ENGINEER
HODGES ENGINEERING

STRUCTURAL ENGINEER
BERNHARD TME

ARCHITECT/ENGINEER OF RECORD

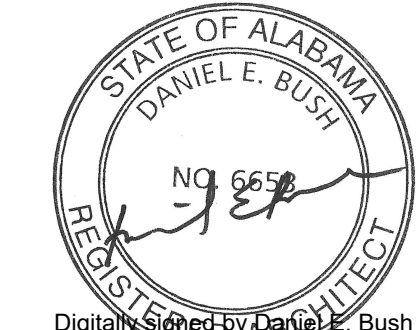
A/E
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SUITE 210
LITTLE ROCK, AR 72212

501-404-4811
jda@johnsondanforth.com

JDA PROJECT #: 2018.001



STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

BUILDING SECTIONS

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
BUSH

Drawn
DEB

Project Number

564-19-101

Building Number

39

Drawing Number

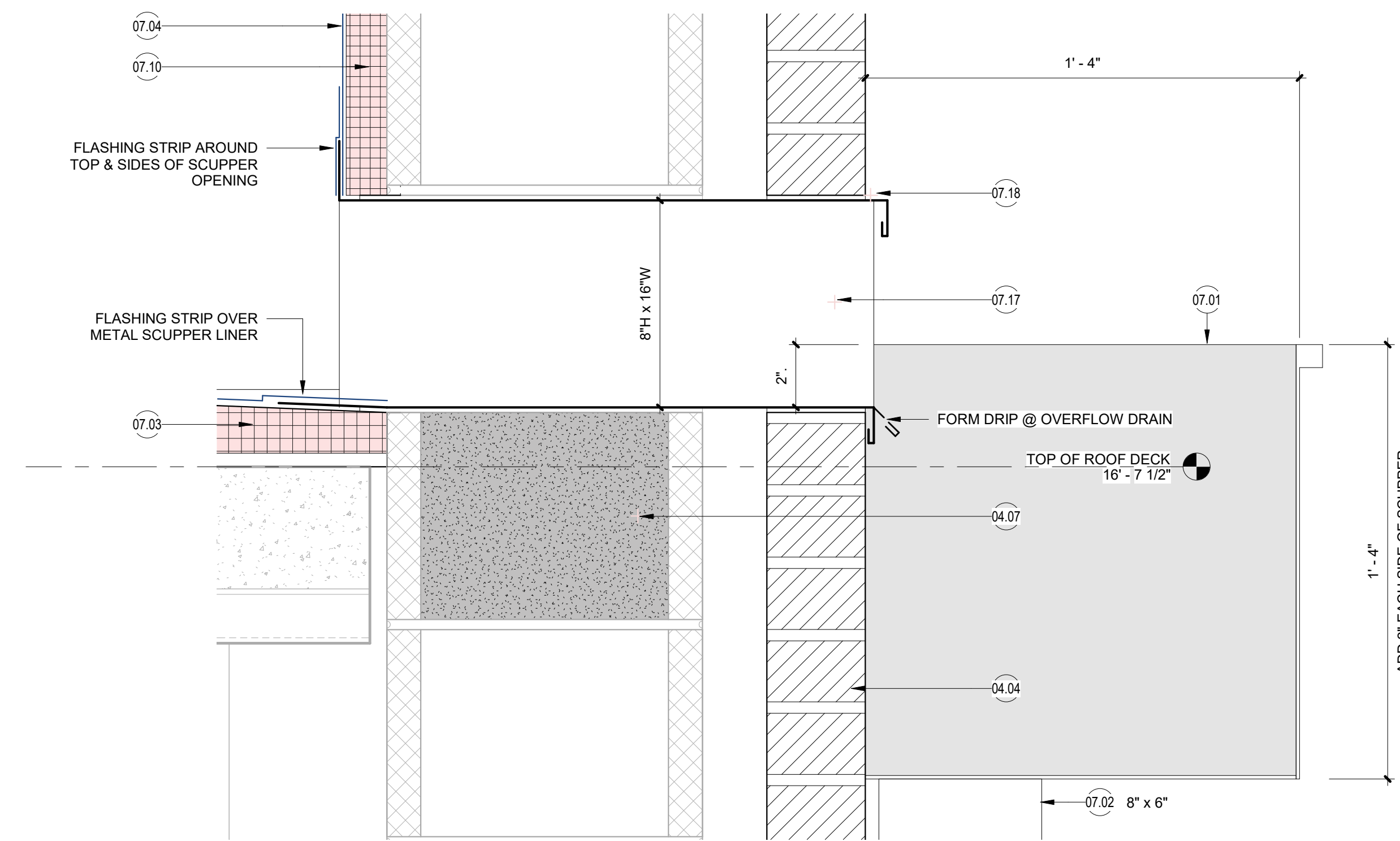
AE301

GENERAL NOTES

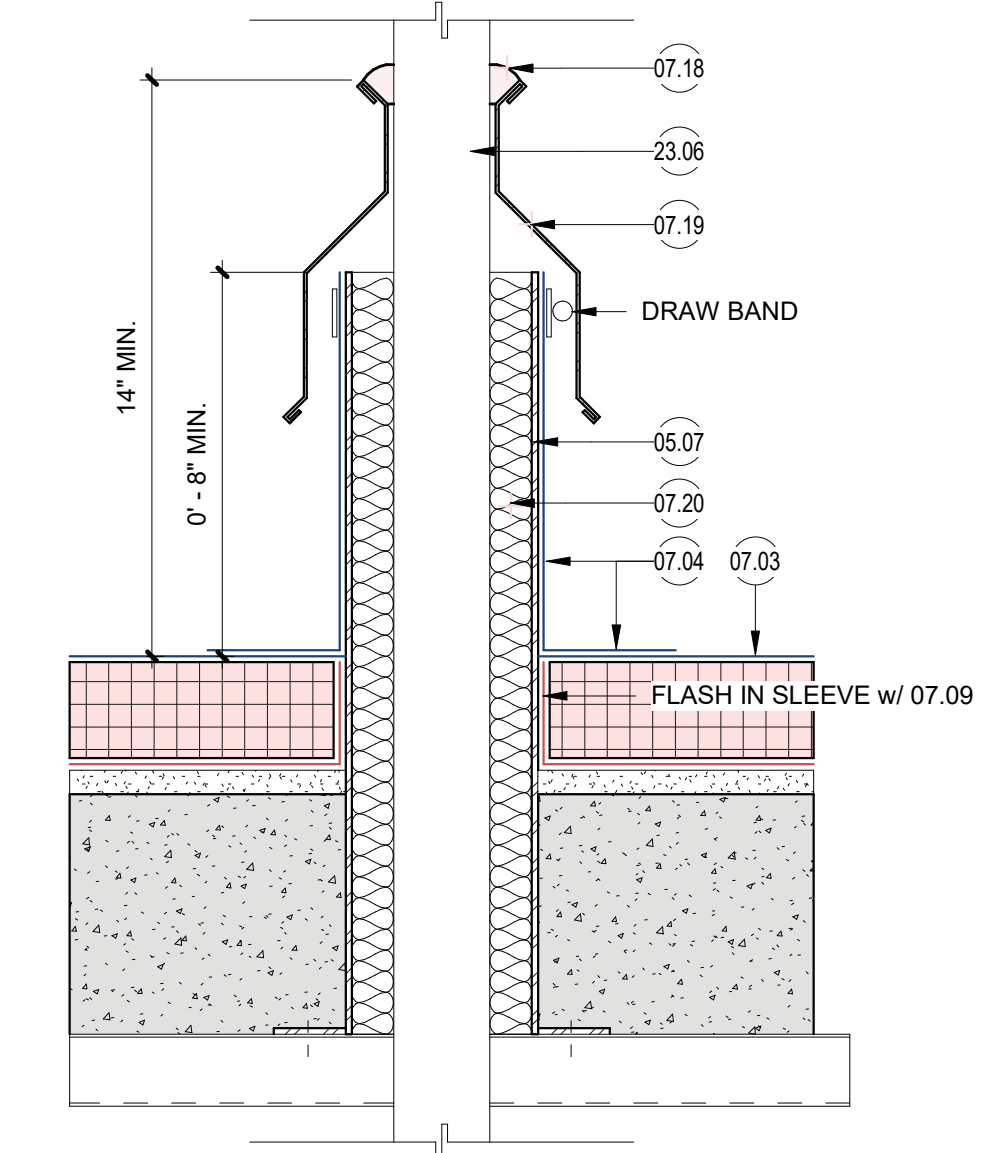
1. REFER TO GENERAL NOTES ON SHEET AE101 WHICH APPLY TO ENTIRE PROJECT.

SHEET NOTES

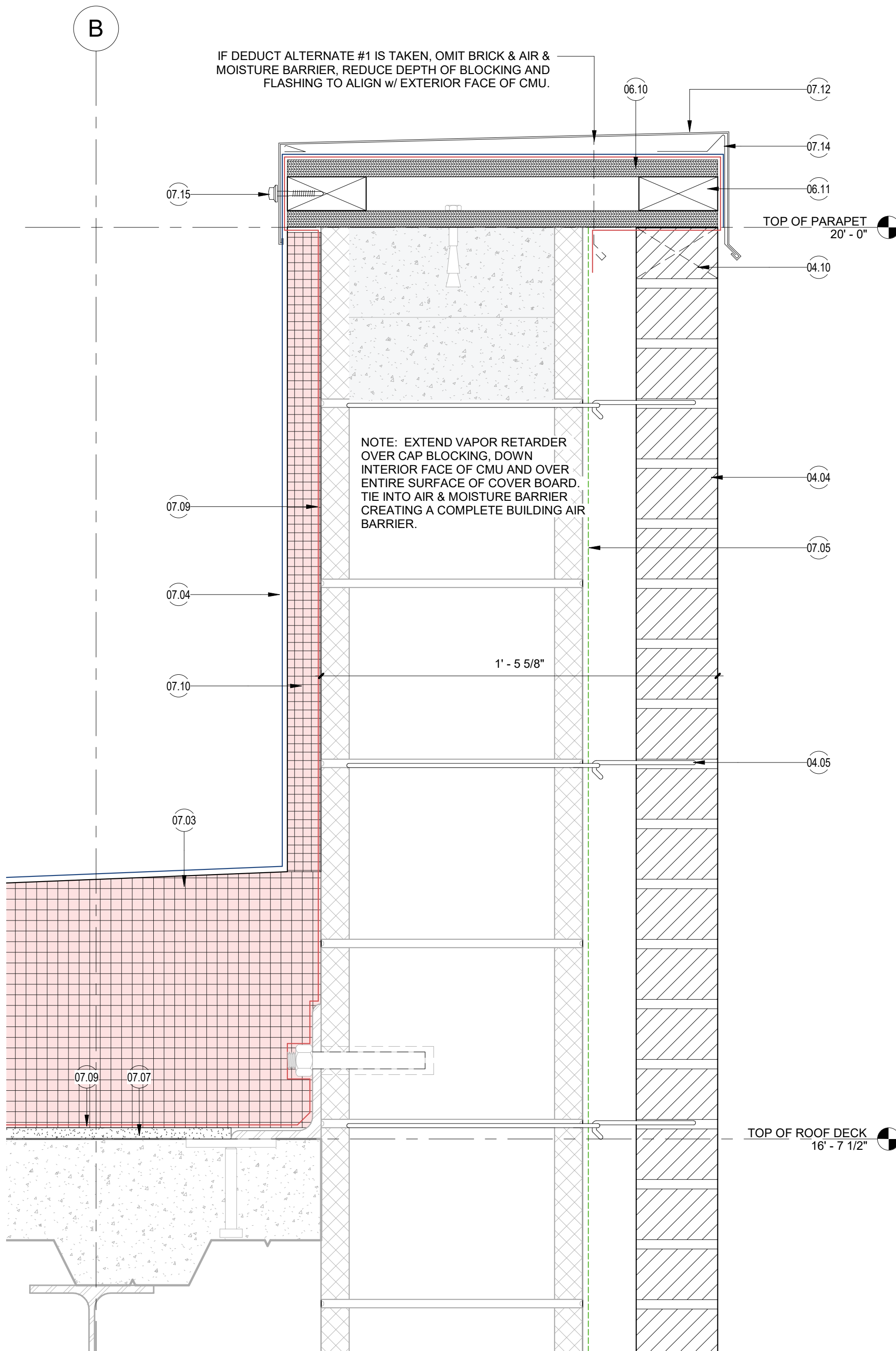
- 03.03 STRUCTURAL CONCRETE ROOF DECK
04.01 FACE BRICK (PART OF DEDUCT ALTERNATE #1. REFER TO SHEET G1001 FOR SCHEDULE OF BID ITEMS)
04.02 STRUCTURAL MASONRY WALL PER STRUCTURAL DRAWINGS
04.04 WALL TYPE E12. REF: SHEET AE501
04.05 CMU LADDER REINFORCEMENT w/ PINTLE BRICK TIES. IF DEDUCT ALTERNATE IS TAKEN, REPLACE w/ LADDER REINFORCEMENT w/o PINTLE LOOPS
04.07 GROUT FILL CAVITY
04.10 PREFORMED WEEP BARRIER
04.11 PREFORMED CAVITY BARRIER
04.13 PREFORMED THROUGH WALL FLASHING DRIP PLATE
05.07 PIPE COLLAR ANCHORED TO DECK
06.10 FRT PLYWOOD
06.11 FRT WOOD BLOCKING
07.01 SHEET METAL ROOF COLLECTION BOX
07.02 SHEET METAL DOWNSPOUT & SUPPORTS
07.03 ROOF TYPE TPO. REF: SHEET AE501
07.04 TPO ROOFING MEMBRANE
07.05 FLUID-APPLIED AIR & MOISTURE BARRIER OVER ENTIRE EXTERIOR SURFACE OF CMU BEHIND BRICK. EXTEND 4" INCHES MINIMUM ONTO HORIZONTAL FOOTING AT BASE OF CMU
07.06 TAPERED ROOF INSULATION - R10 MINIMUM VALUE AT ANY POINT
07.07 1/2" ROOF SUBSTRATE BOARD
07.09 VAPOR RETARDER OVER ENTIRE ROOF DECK SURFACE, UP CMU WALLS OVER CAP BLOCKING AND TIE INTO AIR AND MOISTURE BARRIER. IF DEDUCT ALTERNATE REMOVING BRICK IS TAKEN, TERMINATE VAPOR RETARDER AT EXTERIOR FACE OF CMU BELOW BLOCKING.
07.10 1.5" RIGID INSULATION BOARD ADHERED TO CMU
07.12 SHEET METAL PARAPET CAP FLASHING
07.14 CAP FLASHING SPRING CLIPS
07.15 HIGH DOME FASTENER
07.16 SHEET METAL CAVITY FLASHING. SEAL WITH AIR & MOISTURE BARRIER @ TOP. EXTEND FACE TO WITHIN 1/8" OF EXTERIOR FACE OF BRICK.
07.17 SHEET METAL SCUPPER LINER
07.18 SEALANT (AND BACKER ROD) JOINT
07.19 SHEET METAL STACK HOOD COUNTER FLASHING
07.20 EXHAUST STACK COLLAR INSULATION LINER
07.21 NEOPRENE JOINT BACKER
23.06 GENERATOR EXHAUST FLUE
32.01 FINISH GRADE



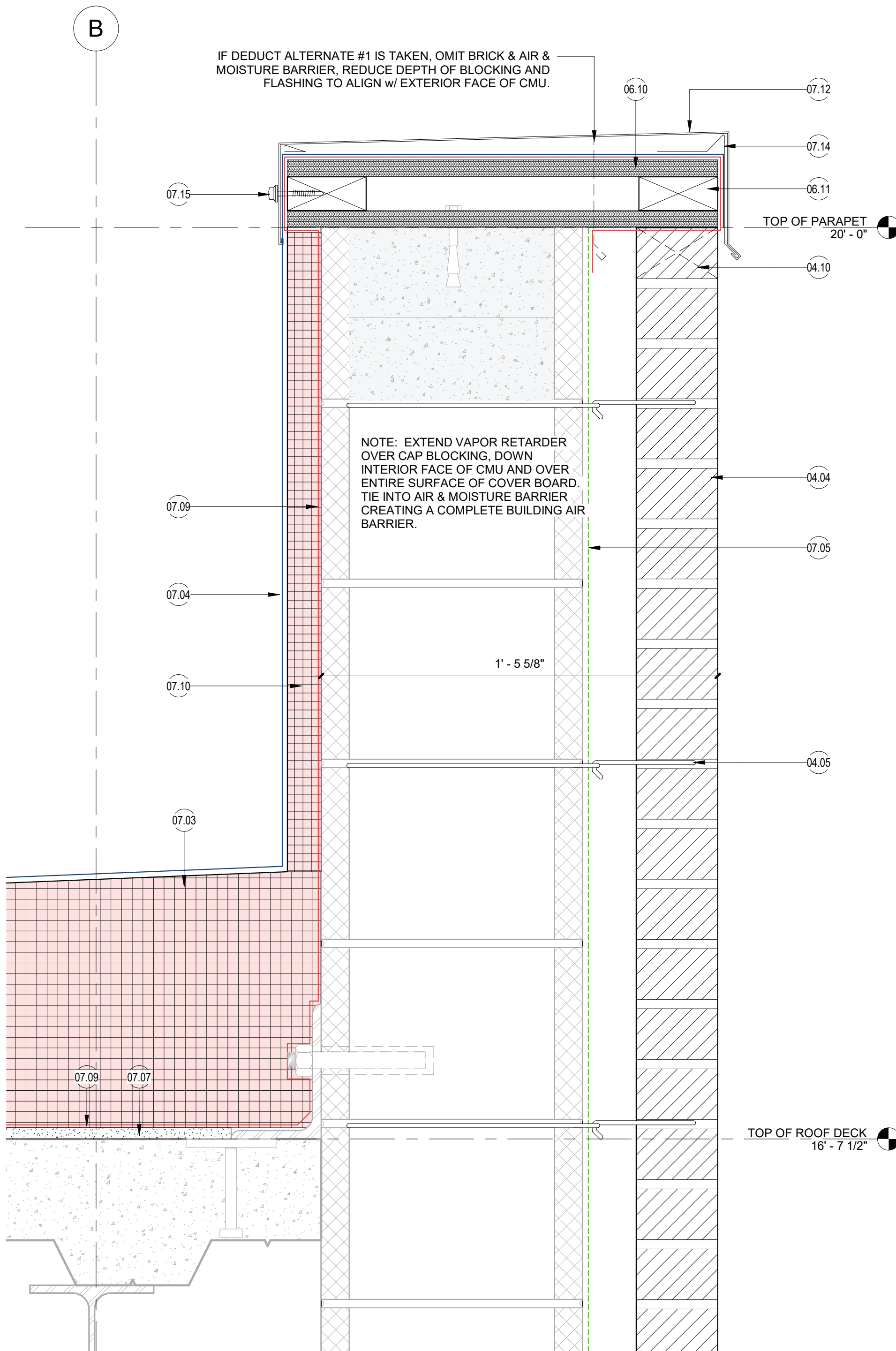
B4 SCUPPER DETAIL
3" = 1'-0"



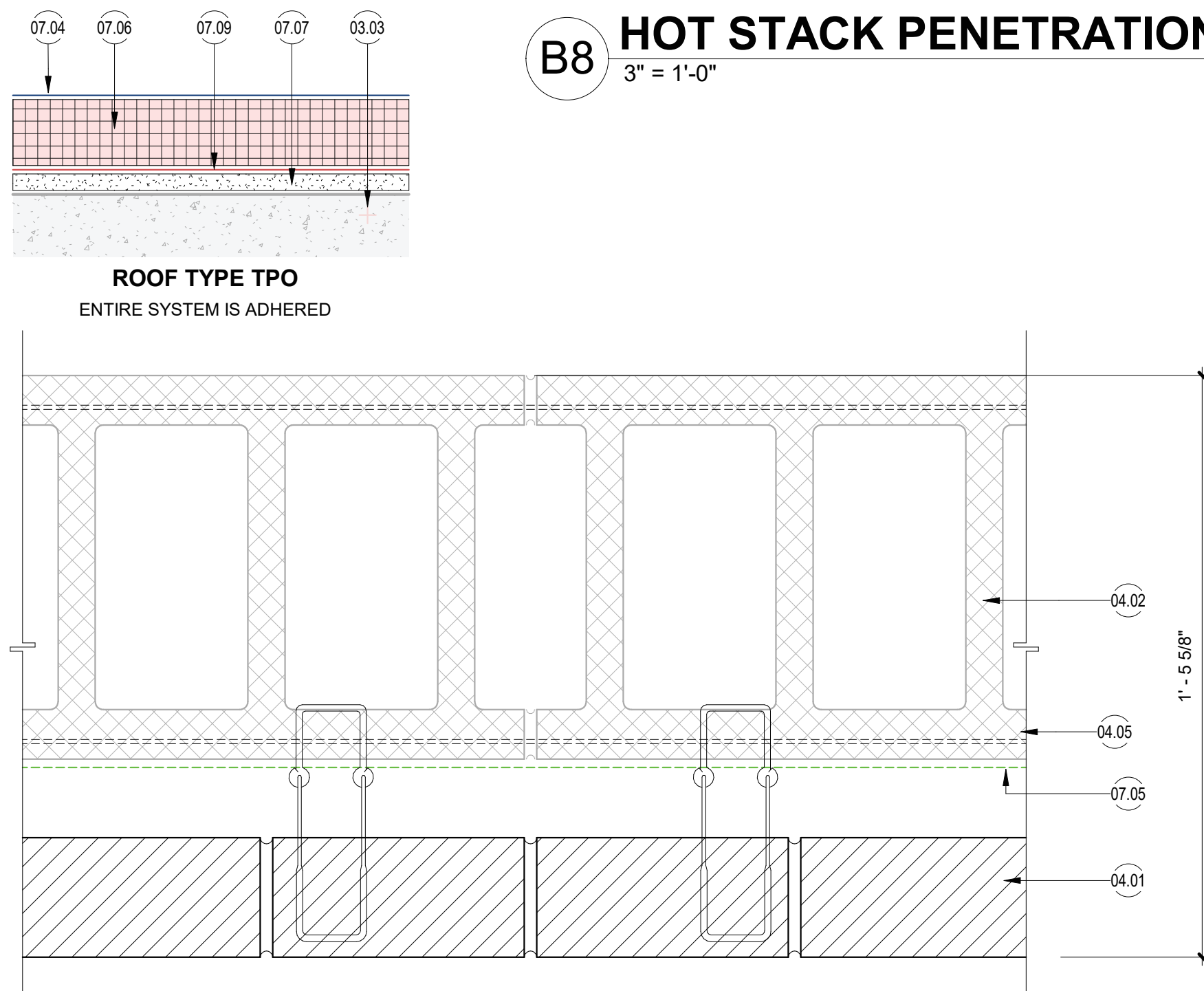
B8 HOT STACK PENETRATION
3" = 1'-0"



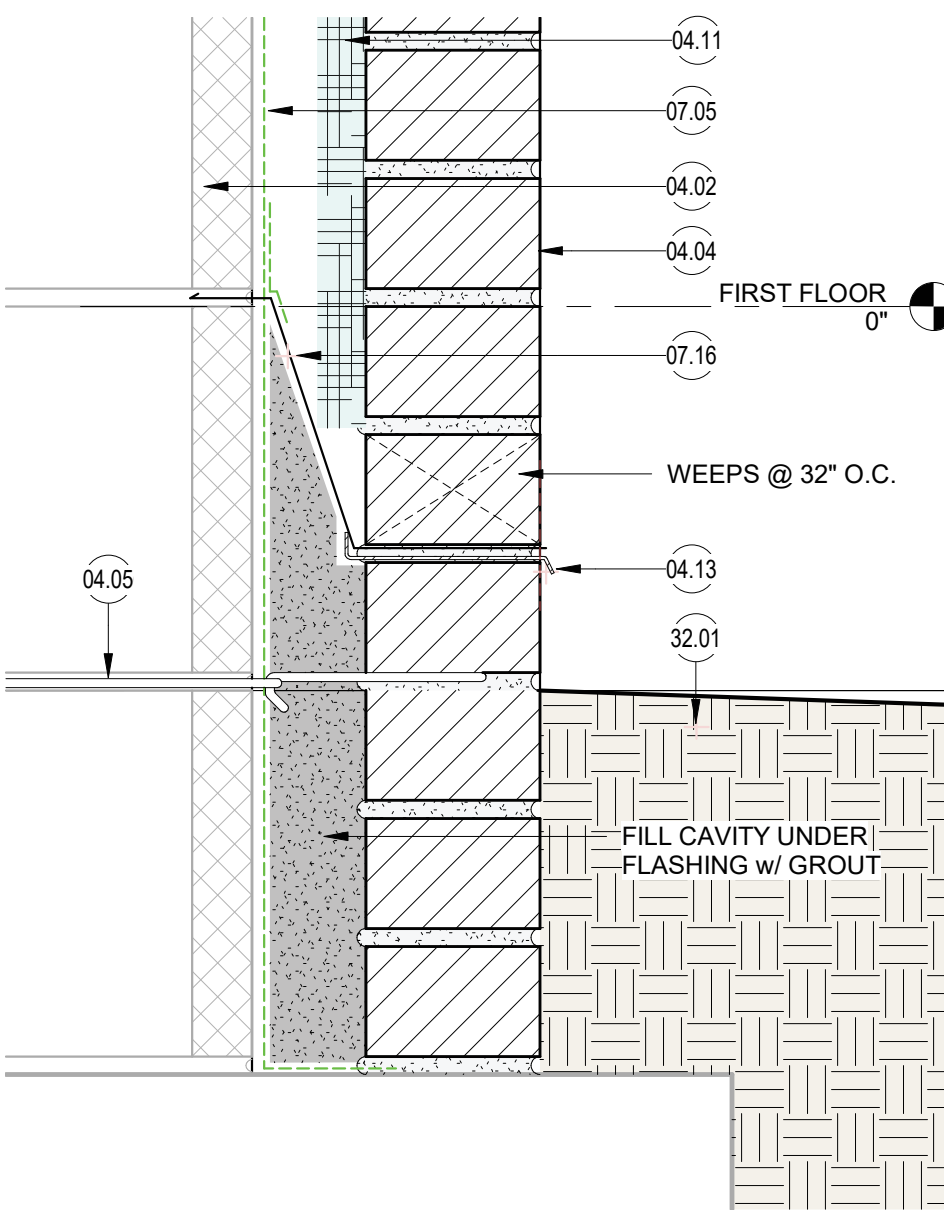
F2 MASONRY CONTROL JOINT
3" = 1'-0"



F4 PARAPET DETAIL
3" = 1'-0"



D7 WALL, ROOF TYPES
3" = 1'-0"



F7 BASE OF WALL DETAIL
3" = 1'-0"

0 2" 4" 8"
SCALE: 3" = 1'-0"

CONSULTANTS



FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

1330 BURLINGTON STREET, STE. 200
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SECURITY
GRW

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LEXINGTON, KY 40503

CIVIL ENGINEER
HODGES ENGINEERING

231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653

STRUCTURAL ENGINEER
BERNHARD TME

BUILDING 2, 1 ALLIED DRIVE
SUITE 200
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

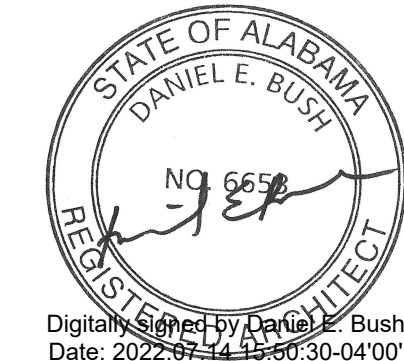
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SUITE 210
LITTLE ROCK, AR 72212

501-404-4811
jda@johnsondanforth.com

JDA PROJECT #: 2018.001



STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

EXTERIOR DETAILS

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
BUSH

Drawn
DEB

Project Number

564-19-101

Building Number
39

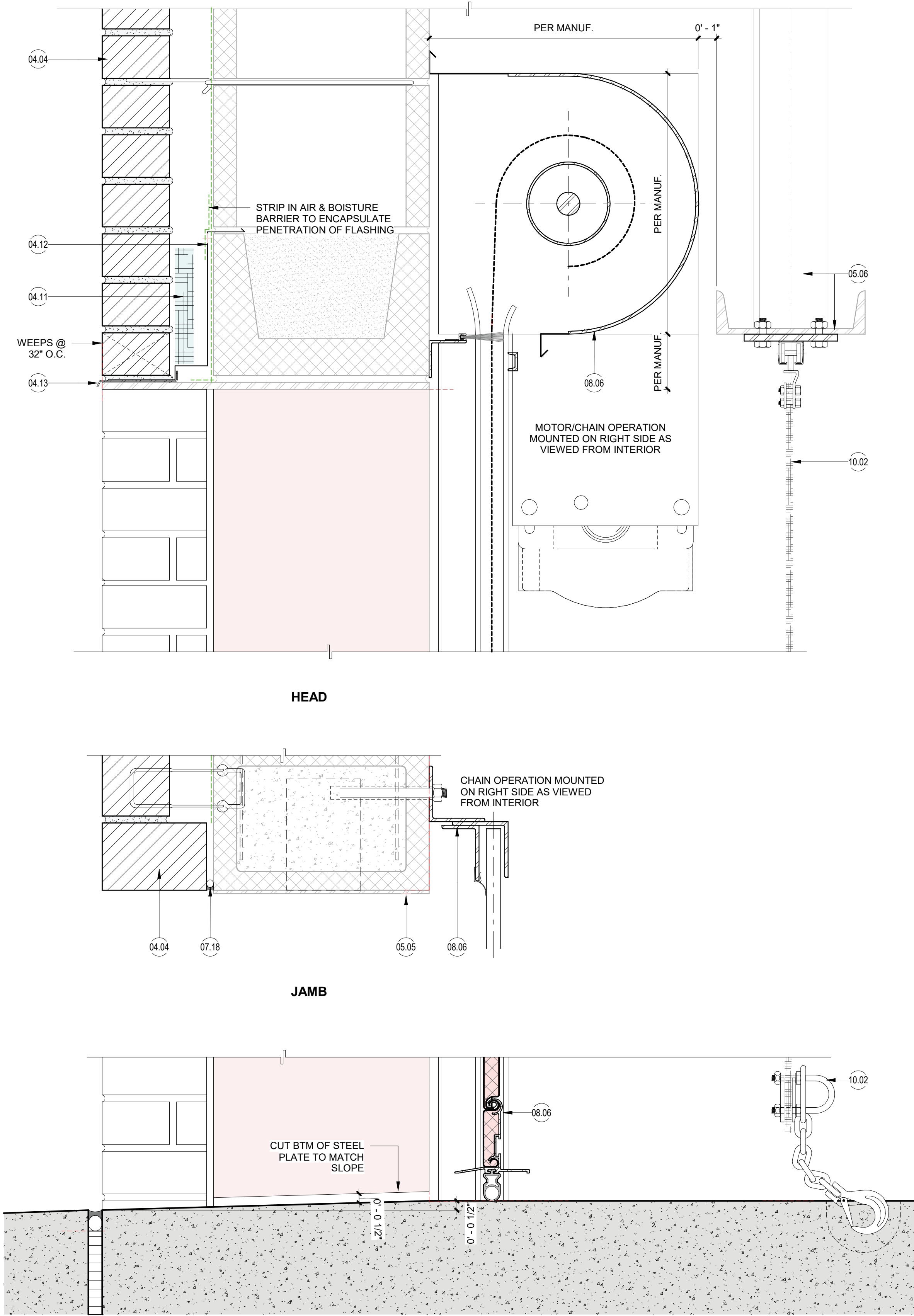
Drawing Number
AE501

GENERAL NOTES

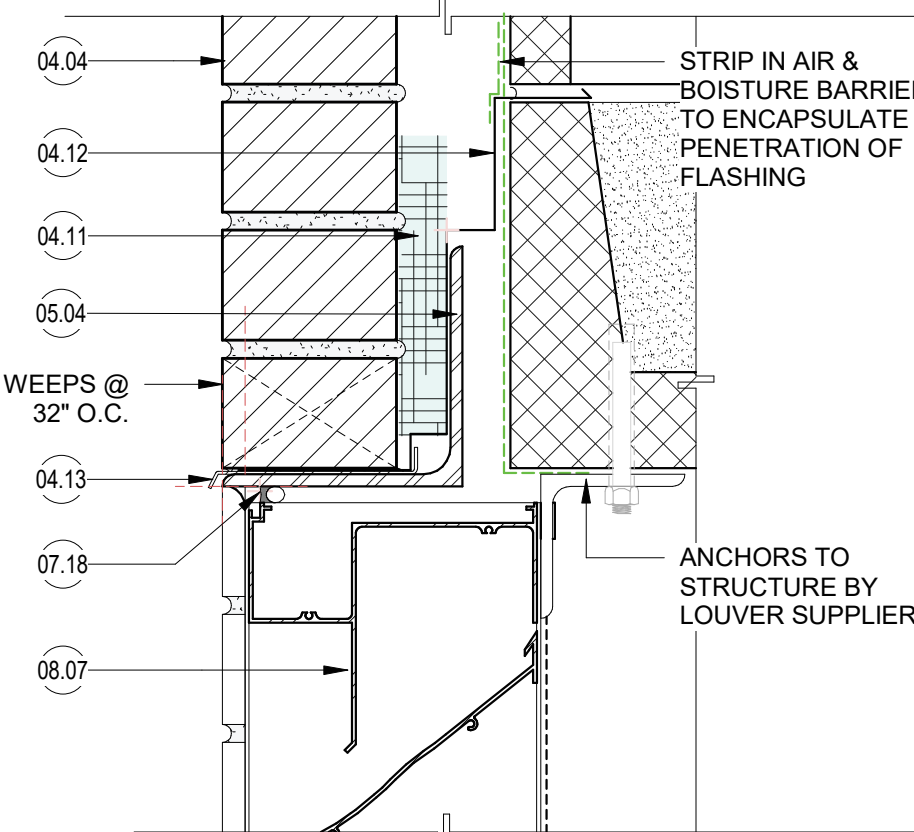
1. REFER TO GENERAL NOTES ON SHEET AE101 WHICH APPLY TO ENTIRE PROJECT.

SHEET NOTES

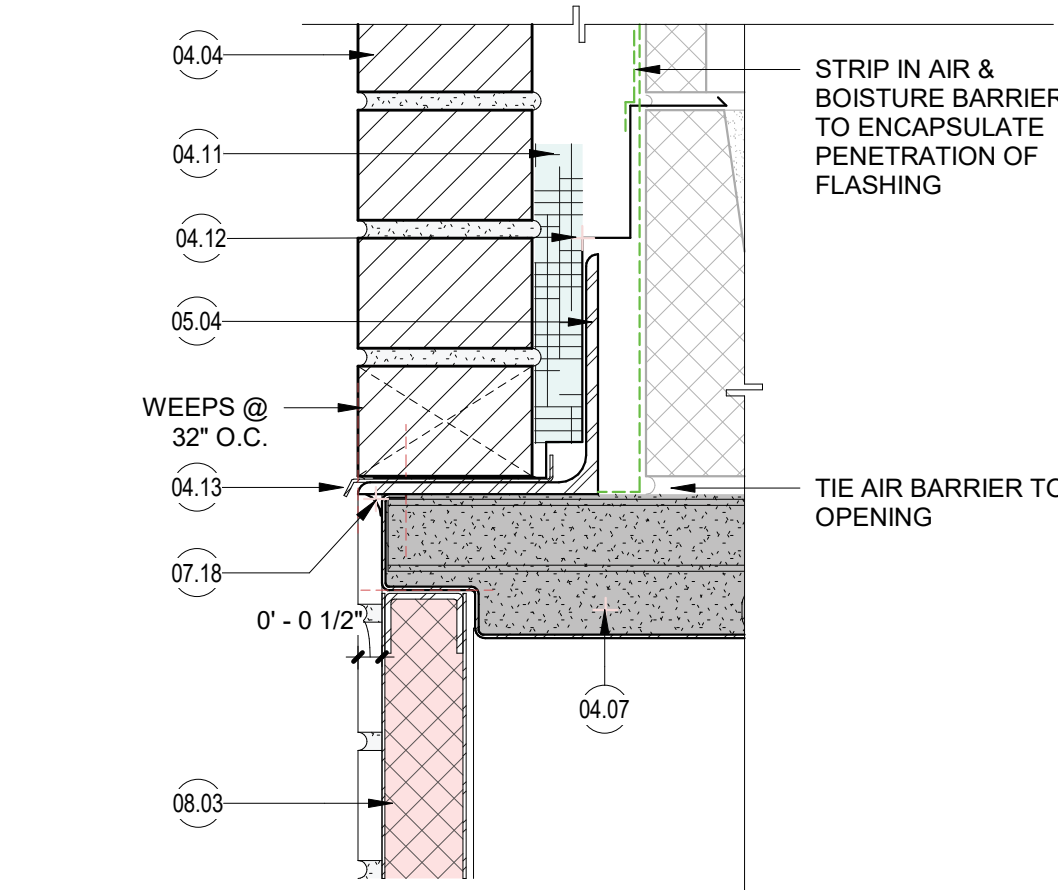
- 04.02 STRUCTURAL MASONRY WALL PER STRUCTURAL DRAWINGS
04.04 WALL TYPE E12. REF: SHEET AE501
04.05 CMU LADDER REINFORCEMENT w/ PINTLE BRICK TIES. IF DEDUCT ALTERNATE IS TAKEN, REPLACE w/ LADDER REINFORCEMENT w/o PINTLE LOOPS
04.07 GROUT FILL CAVITY
04.11 PREFORMED CAVITY BARRIER
04.12 THROUGH-WALL FLASHING
04.13 PREFORMED THROUGH WALL FLASHING DRIP PLATE
05.04 STEEL LINTEL
05.05 STEEL JAMB LINER - REF. STRUCTURAL
05.06 STEEL SUPPORTS REF. STRUCTURAL
07.05 FLUID-APPLIED AIR & MOISTURE BARRIER OVER ENTIRE EXTERIOR SURFACE OF CMU BEHIND BRICK. EXTEND 4" INCHES MINIMUM ONTO HORIZONTAL FOOTING AT BASE OF CMU.
07.18 SEALANT (AND BACKER ROD) JOINT
08.02 SCHEDULED DOOR/WINDOW UNIT
08.03 INTEGRATED BLAST RATED HM DOOR & FRAME UNIT
08.05 SCHEDULED DOOR HARDWARE
08.06 OVERHEAD COILING DOOR UNIT
08.07 FIXED BLADE BLAST RATED LOUVER
10.02 SUSPENDED BLAST CURTAIN
32.02 ADJACENT WALK - REF. CIVIL
<varies>



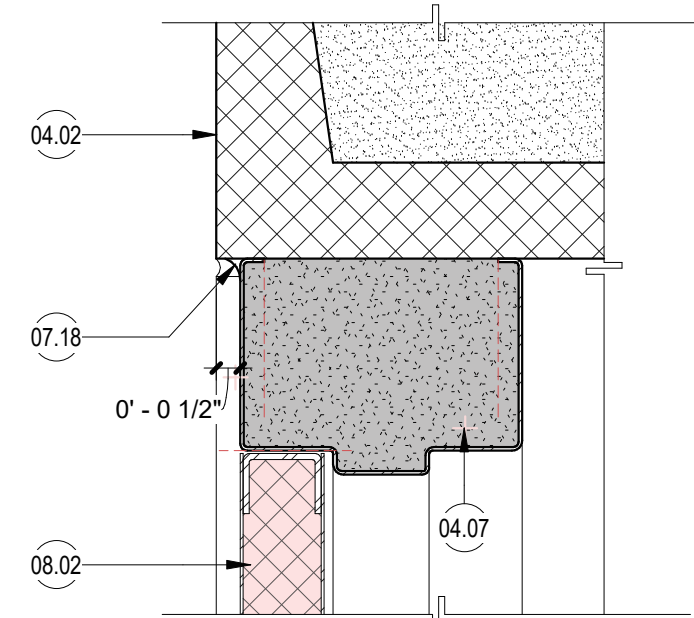
F2 OH DOOR DETAILS
3" = 1'-0"



F5 LOUVER DETAILS
3" = 1'-0"



F6 BLAST RATED PASSAGE DOOR DETAILS
3" = 1'-0"



F8 PASSAGE DOOR DETAILS
3" = 1'-0"

0 2" 4" 8"
SCALE: 3" = 1'-0"

CONSULTANTS



FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

SECURITY
GRW

CIVIL ENGINEER
HODGES ENGINEERING

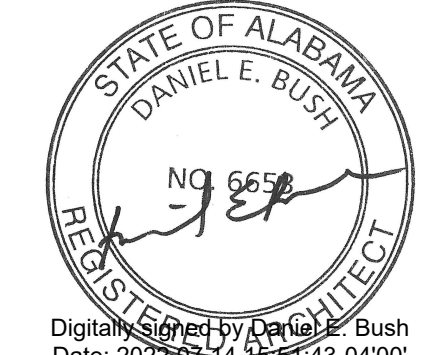
STRUCTURAL ENGINEER
BERNHARD TME

ARCHITECT/ENGINEER OF RECORD

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2200 N. RODNEY PARHAM ROAD
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jda@johnsondanforth.com
JDA PROJECT #: 2018.001



STAMP



Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

OPENING DETAILS

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
BUSH

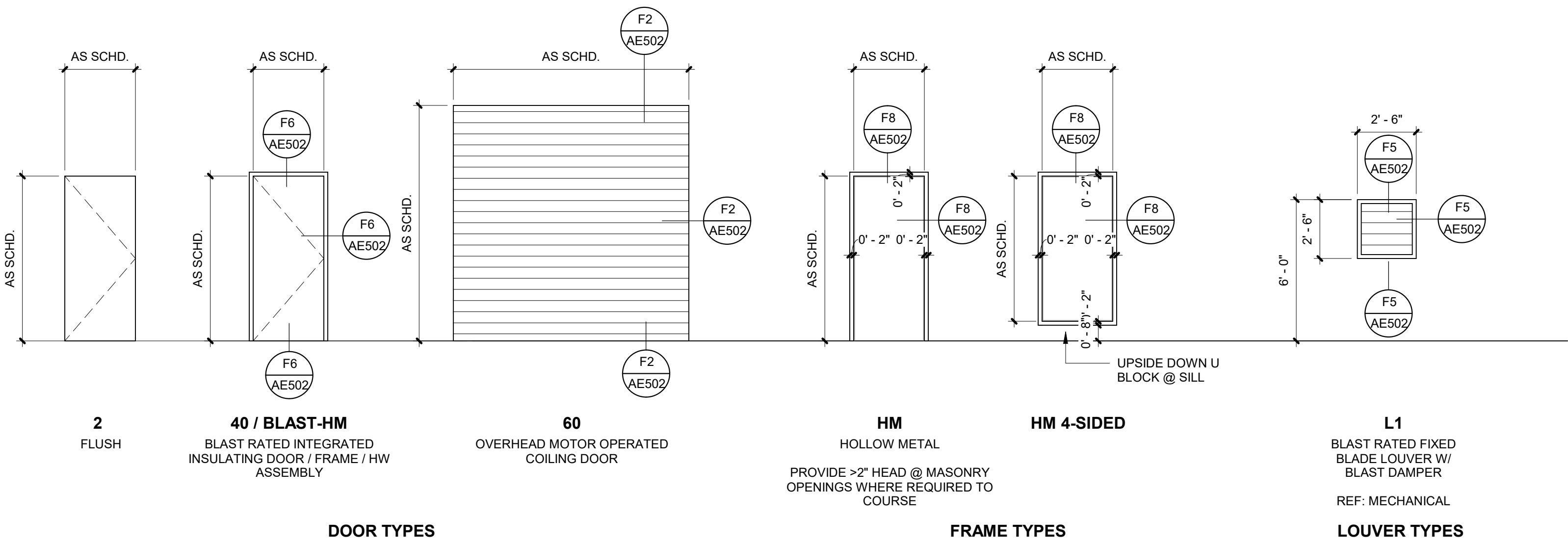
Drawn
DEB

Project Number
564-19-101
Building Number
39

Drawing Number

AE502

DOOR SCHEDULE											
MARK	PANELS						FRAME		FIRE RATING	HW SET	REMARKS
	TYPE	WIDTH	TYPE	WIDTH	PANEL HEIGHT	FINISH	TYPE	FINISH			
101A	40	3' - 0"			7' - 0"	HM PAINT	BLAST-HM	HM PAINT	-	E3A	BLAST RATED, ACCESS CONTROL
101B	60	8' - 0"			10' - 0"	OH PAINT	OH-MANUF	HM PAINT	1 HOUR	E5	
101D	60	10' - 0"			10' - 0"	OH PAINT	OH-MANUF	HM PAINT	-	E5	
101E	40	3' - 0"			7' - 0"	HM PAINT	BLAST-HM	HM PAINT	-	E3A	BLAST RATED, ACCESS CONTROL
102	2	3' - 0"	2	3' - 0"	7' - 0"	HM PAINT	HM	HM PAINT	-	SH-9	ACCESS CONTROL
103	2	2' - 8"			6' - 4"	HM PAINT	HM 4-SIDED	HM PAINT	-	HW-1C	4 SIDED FRAME



ROOM FINISH SCHEDULE					
ROOM NO.	ROOM NAME	BASE	FLOOR	WALLS	CEILING
101	EQUIPMENT ROOM	-	EPOXY	P	EXP - P
102	SECURITY CLOSET	-	EPOXY	P	EXP - P
104	GENERATOR ROOM	-	EPOXY	P	EXP - P
103	CHLORINATION	EPOXY	EPOXY	P	EXP - P

INTERIOR FINISH ABBREVIATION LEGEND:

HMPAINT: PAINTED HOLLOW METAL DOOR/FRAME
OHPAINT: PAINTED OVERHEAD COILING DOOR/FRAME
P: PAINT
EPOXY: HIGH BUILD EPOXY PAINT. TURN 8" UP WALL WHERE WHERE SHOWN FOR BASE.
EXP-P: EXPOSED STRUCTURE, PAINTED

EXPOSED STRUCTURE TO BE PAINTED TO MATCH SW7076 CYBERSPACE.
ALL WALLS, HM DOORS AND FRAMES TO BE PAINTED TO MATCH SW7042 SHOJI WHITE.
ALL FLOORS TO BE PAINTED TO MATCH SW 7021 SIMPLE WHITE.

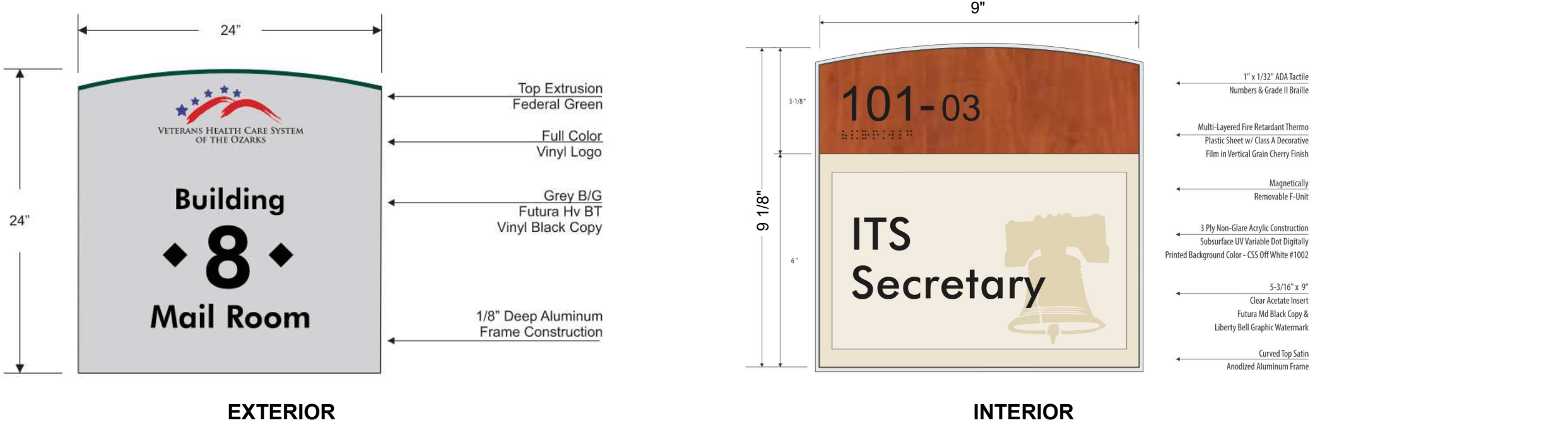
EXTERIOR FINISHES:

PAINT EXPOSED CMU, HM DOORS AND FRAMES TO MATCH CAMPUS STANDARD BRICK. OBTAIN APPROVAL OF COLOR IN WRITING FROM COR BEFORE APPLICATION.

PAINT EXPOSED WATER TOWER COMPONENTS TO MATCH COR SAMPLE.

METAL LOUVERS TO BE FACTORY FINISHED 2-COAT KYNAR TO MATCH CAMPUS STANDARD BRICK.

SIGNAGE SCHEDULE			
TYPE	TACTILE MESSAGE / TOP LINE OF MESSAGE	MESSAGE	MOUNTING TYPE
EXTERIOR	Building	39	CONCEALED ANCHORS
INTERIOR	Security		ADHESIVE TAPE
INTERIOR	Chlorination		ADHESIVE TAPE



2 SIGN TYPES

1/8" = 1'-0"

CONSULTANTS

FPC
CONSULTANTS

FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

GRW

SECURITY
GRW

Hodges Engineering

CIVIL ENGINEER
HODGES ENGINEERING

Bernhard TME
Engineering

STRUCTURAL ENGINEER
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ARCHITECT/ENGINEER OF RECORD

A/E
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501-604-4811
jda@johnsondanforth.com

JDA PROJECT #: 2018.001

STAMP

STATE OF ALABAMA
DANIEL E. BUSH
REGISTERED PROFESSIONAL ENGINEER
NO. 6656

Digital Signature of Daniel E. Bush
Date: 2022.07.14 15:58:12 -04'00'

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
OPENING, FINISH AND SIGNAGE
SCHEDULES & TYPES

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
BUSH

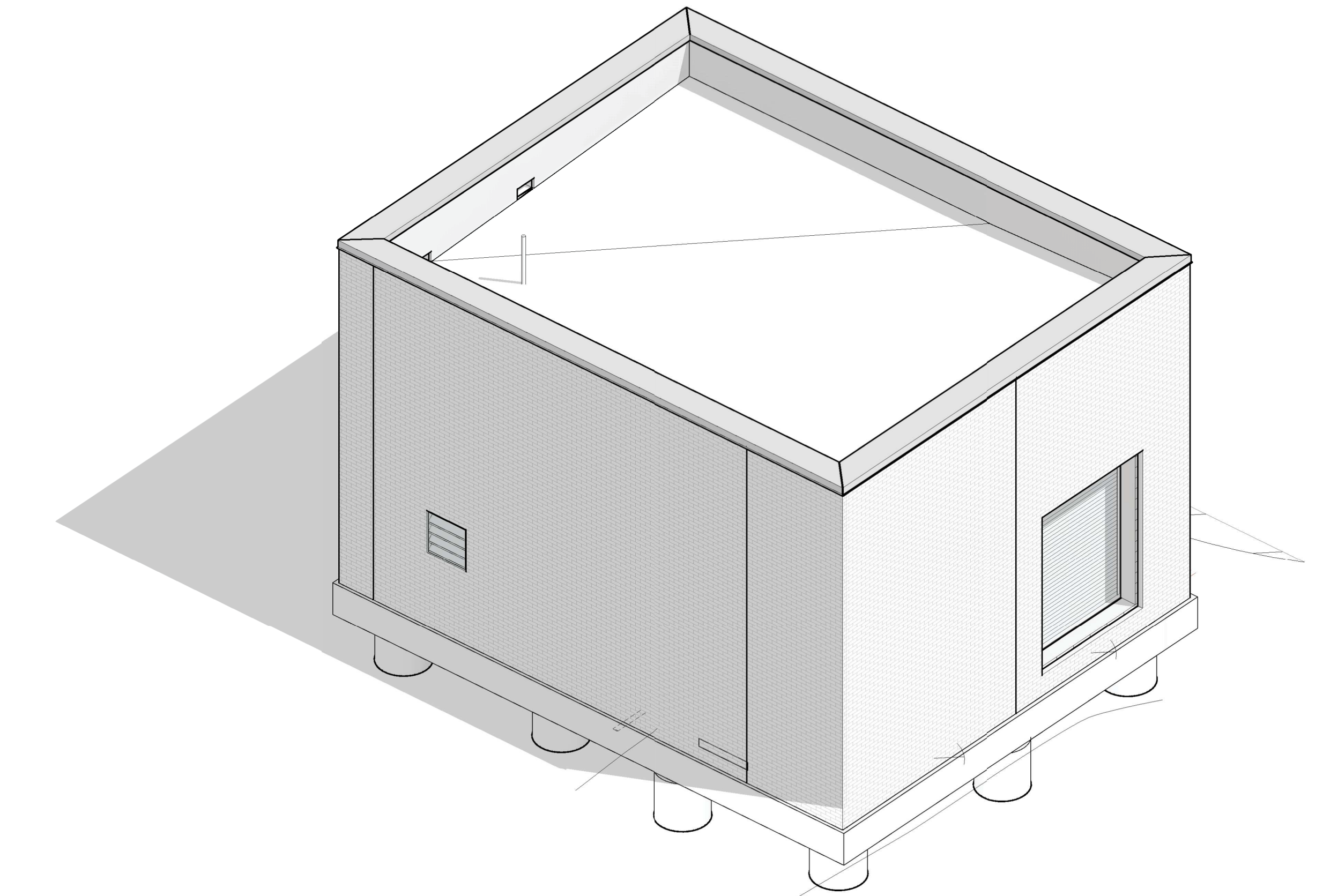
Drawn
DEB

Project Number
564-19-101

Building Number
39







Drawing Number
AE601

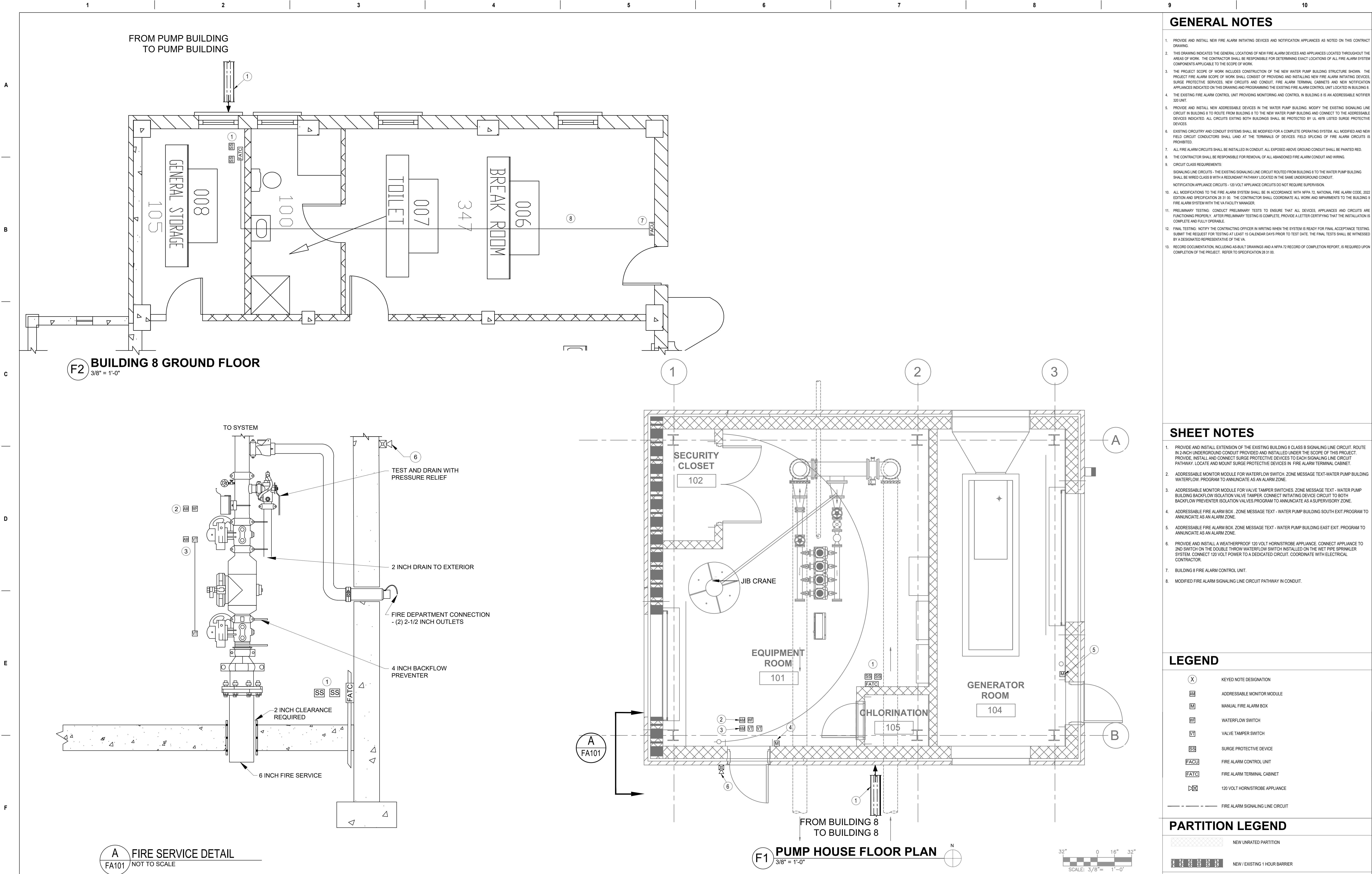
CONTROLLED UNCLASSIFIED INFORMATION - CUI





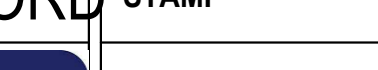


3D OVERHEAD VIEW FROM NORTHWEST

NOTE: GRADE NOT SHOWN FOR CLARITY

CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management		Drawing Title PROJECT 3D VIEWS		Phase CONSTRUCTION DOCUMENTS		Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101	
<div><div></div><div></div><div></div><div></div></div>				<div><div></div><div>A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001</div></div>		<div></div>	VA U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location FAYETTEVILLE, AR		Drawing Number AE901	
<div><div>FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</div><div>SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503</div><div>CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653</div><div>STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 200 LITTLE ROCK, AR 72202</div></div>		<div><div>Issue Date 2022.07.15</div><div>Checked BUSH</div><div>Drawn DEB</div></div>														



	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management	Drawing Title PUMP HOUSE FIRE ALARM PLAN	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101			
	 FIRE PROTECTION FP&C CONSULTANTS LLC, LLC		 SECURITY GRW		 CIVIL ENGINEER HODGES ENGINEERING		 STRUCTURAL ENGINEER BERNHARD TME				 A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@johnsondanforth.com JDA PROJECT #: 2018.001		Building Number			
	1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116		801 CORPORATE DRIVE LEXINGTON, KY 40503		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653		BUILDING 2, 1 ALLIED DRIVE SUITE 200 LITTLE ROCK, AR 72202				Location FAYETTEVILLE, AR		Drawing Number FA101			
Revisions:	Date:							VA	U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED		Issue Date 2022.07.15	Checked JAS	Drawn LBR	

GENERAL NOTES

- THE PROJECT SCOPE OF WORK INCLUDES CONSTRUCTION OF THE NEW BUILDING STRUCTURE SHOWN. THE PROJECT FIRE SUPPRESSION SCOPE OF WORK SHALL CONSIST OF PROVIDING WET PIPE SPRINKLER PROTECTION THROUGHOUT THE NEW BUILDING.
- WORK SHALL BEGIN 6 FEET OUTSIDE OF THE BUILDING. PROVIDE AND INSTALL THE IN-BUILDING RISER. COORDINATE CONNECTION TO A NEW 6-INCH FIRE SERVICE MAIN TO BE INSTALLED UNDER THE SCOPE OF THIS PROJECT BY THE UNDERGROUND CONTRACTOR. THE APPROXIMATE LOCATION FOR THE IN-BUILDING RISER IS INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LOCATION OF THE IN-BUILDING RISER WITH THE PROJECT STRUCTURAL CONTRACTOR.
- PROVIDE AND INSTALL ALL ABOVE GROUND PIPING AND APPURTANCES SHOWN, AND AS REQUIRED FOR A COMPLETE SYSTEM. THE LOCATION OF ABOVE GROUND PIPING SHALL BE COORDINATED FOR CLEARANCES WITH THE JIB CRANE OPERATING SPACE REQUIREMENTS.
- PROVIDE CORROSIVE RESISTIVE INTERMEDIATE TEMPERATURE, QUICK RESPONSE SPRINKLERS IN EQUIPMENT ROOM 101. PROVIDE CORROSIVE RESISTIVE HIGH TEMPERATURE, QUICK RESPONSE SPRINKLERS IN GENERATOR ROOM 104.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION AND SPECIFICATION 21.13.13.
- THIS STRUCTURE REQUIRES PROTECTION IN ACCORDANCE FOR A SEISMIC DESIGN CATEGORY C. SEISMIC BRACING AND RESTRAINT PER NFPA 13 IS REQUIRED. SPRINKLER PIPING PENETRATIONS THROUGH WALLS REQUIRE CLEARANCE OR FLEXIBLE PIPE COUPLINGS INSTALLED PER NFPA 13.
- THE PREPARATION OF SPRINKLER SHOP DRAWINGS SHALL BE BY A NICET LEVEL III OR IV TECHNICIAN OR A REGISTERED FIRE PROTECTION ENGINEER. INSTALLATION SHALL BE PERFORMED BY A CERTIFIED SPRINKLER CONTRACTOR OR A SPECIALIST WHO IS EXPERIENCED IN THE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS (MINIMUM 3 YEARS OF EXPERIENCE).
- STEEL PIPING WITH A WALL THICKNESS LESS THAN SCHEDULE 40 SHALL NOT BE THREADED. MINIMUM PIPE SCHEDULE SHALL BE SCHEDULE 10. PIPE 2 INCHES AND SMALLER SHALL BE SCHEDULE 40.
- PLAIN END FITTINGS ARE NOT PERMITTED. MECHANICAL TEE (SADDLE-TYPE) FITTINGS ARE NOT PERMITTED.
- PRELIMINARY TESTING: HYDROSTATICALLY TEST THE WET PIPE SPRINKLER SYSTEM, AS REQUIRED BY NFPA 13 AND SPECIFICATION 21.13.13, IN THE PRESENCE OF THE DESIGNATED GOVERNMENT REPRESENTATIVE.
- FINAL INSPECTION AND TESTING: ADVISE THE CONTRACTING OFFICER WHEN HYDROSTATIC AND ALARM TESTS HAVE BEEN COMPLETED AND ALL NECESSARY CORRECTIONS MADE, SO AS TO PERMIT FINAL INSPECTION AND TESTING.
- THE FINAL TEST SHALL BE WITNESSED BY THE DESIGNATED REPRESENTATIVE OF THE VA. FINAL TESTING SHALL INCLUDE, BUT IS NOT LIMITED TO, TESTING OF WATERFLOW AND TAMPER SWITCHES CONNECTED TO THE NEW SPRINKLER PIPING SYSTEM.
- RECORD DOCUMENTATION, INCLUDING AS-BUILT DRAWINGS, IS REQUIRED UPON COMPLETION OF THE PROJECT. REFER TO SPECIFICATION 21.13.13.
- WATER SUPPLY FOR HYDRAULIC CALCULATIONS:
STATIC PRESSURE 65 PSI
RESIDUAL PRESSURE 65 PSI
FLOW 1200 GPM
LOCATION POINT OF CONNECTION TO EXISTING WATER MAIN

SHEET NOTES

- PROVIDE AND INSTALL NEW 4 INCH VERTICAL BACKFLOW PREVENTER AND VALVE STATION PROVIDED WITH WATERFLOW SWITCH, INSPECTOR TEST AND DRAIN VALVE, 2-INCH MAIN DRAIN AND FIRE DEPARTMENT CONNECTION.
- PIPE MAIN DRAIN DISCHARGE TO EXTERIOR OF BUILDING. CONTRACTOR SHALL PROVIDE A CONCRETE SPLASH BLOCK BELOW THE MAIN DRAIN OUTLET.
- PROVIDE AND INSTALL A FIRE DEPARTMENT CONNECTION WITH (2) 2-1/2" CONNECTIONS. PROVIDE AND INSTALL FDC SIGNAGE.
- PROVIDE AND INSTALL SIDEWALL SPRINKLER PROTECTION IN SECURITY CLOSET 102.
- SINGLE PIECE STAINLESS STEEL UL / FM APPROVED IN-BUILDING RISER. CAST IRON RISER WITH FITTINGS IS AN ACCEPTABLE ALTERNATE.
- COORDINATE CONNECTION TO FIRE SERVICE MAIN. TIE-ROD / PIPE CLAMP RESTRAINT WITH CORROSION PROTECTION.
- CLEARANCE TO BUILDING FOUNDATION IN ACCORDANCE WITH NFPA 13. A MINIMUM ANNULAR CLEARANCE OF 2 INCHES AT THE PIPE PENETRATION THROUGH THE FLOOR SLAB IS REQUIRED FOR SEISMIC PROTECTION.
- SPRINKLER PIPING IS PROHIBITED ABOVE THIS ELECTRICAL CABINET.

LEGEND

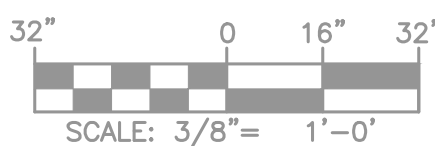
- | | |
|-----|-----------------------------|
| (X) | KEYED NOTE DESIGNATION |
| WF | WATERFLOW SWITCH |
| VT | VALVE TAMPER SWITCH |
| SR | SPRINKLER RISER |
| FC | FIRE ALARM TERMINAL CABINET |
| OH2 | ORDINARY HAZARD GROUP 2 |
| EH1 | ORDINARY HAZARD GROUP 1 |

PARTITION LEGEND

- | | |
|-----------|-------------------------------|
| (Pattern) | NEW UNRATED PARTITION |
| (Pattern) | NEW / EXISTING 1 HOUR BARRIER |

A FIRE SERVICE RISER DETAIL
FX101 NOT TO SCALE

F1 PUMP HOUSE FLOOR PLAN
3/8" = 1'-0"



CONSULTANTS



FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116

SECURITY
GRW

801 CORPORATE DRIVE
LEXINGTON, KY 40503



Hodges Engineering

CIVIL ENGINEER
HODGES ENGINEERING

231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653



STRUCTURAL ENGINEER
BERNHARD TME

BUILDING 2, 1 ALLIED DRIVE
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

A/E
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jda@JohnsonDanforth.com

JDA PROJECT #: 2018.001



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title

PUMP HOUSE
FIRE SUPPRESSION PLAN

Approved: Project Director

Phase

CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW WATER
STORAGE FACILITY

Location

FAYETTEVILLE, AR

Issue Date

2022.07.15

Checked

JAS

Drawn

LBR

Project Number

564-19-101

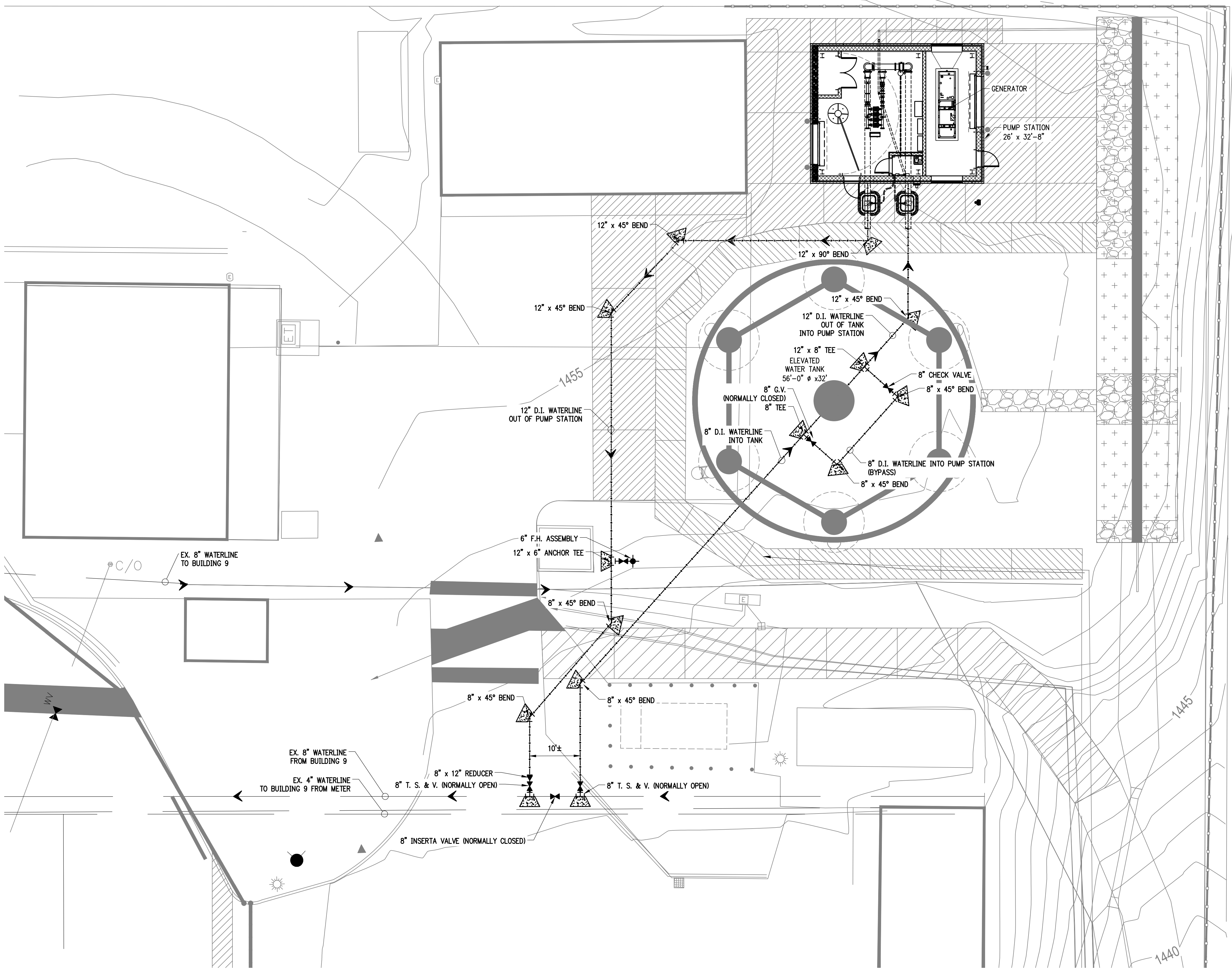
Building Number

Drawing Number

FX101



PIPING SHOWN HEREON IS FOR REFERENCE ONLY; SEE SHEET CU103



7/13/2022 1:54:32 PM

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Revisions:

Date:

CONSULTANTS



FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

1330 BURLINGTON STREET, STE. 200
NORTH KANSAS CITY, MO 64116

SECURITY

GRW

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CIVIL ENGINEER

HODGES ENGINEERING

231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653

STRUCTURAL ENGINEER

BERNHARD TME

BUILDING 2, 1 ALLIED DRIVE
SUITE 200
LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

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JDA PROJECT #: 2018.001



STAMP



**Office of
Construction
and Facilities
Management**



U.S. Department
of Veterans Affairs

Drawing Title

PUMP STATION UTILITY PLAN

Approved: Project Director

Phase

**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title

**CONSTRUCT NEW WATER
STORAGE FACILITY**

Location

FAYETTEVILLE, AR

Issue Date

2022.07.15

Checked

MB

Drawn

BN

Project Number

564-19-101

Building Number

39

Drawing Number

PS101

Issue Date

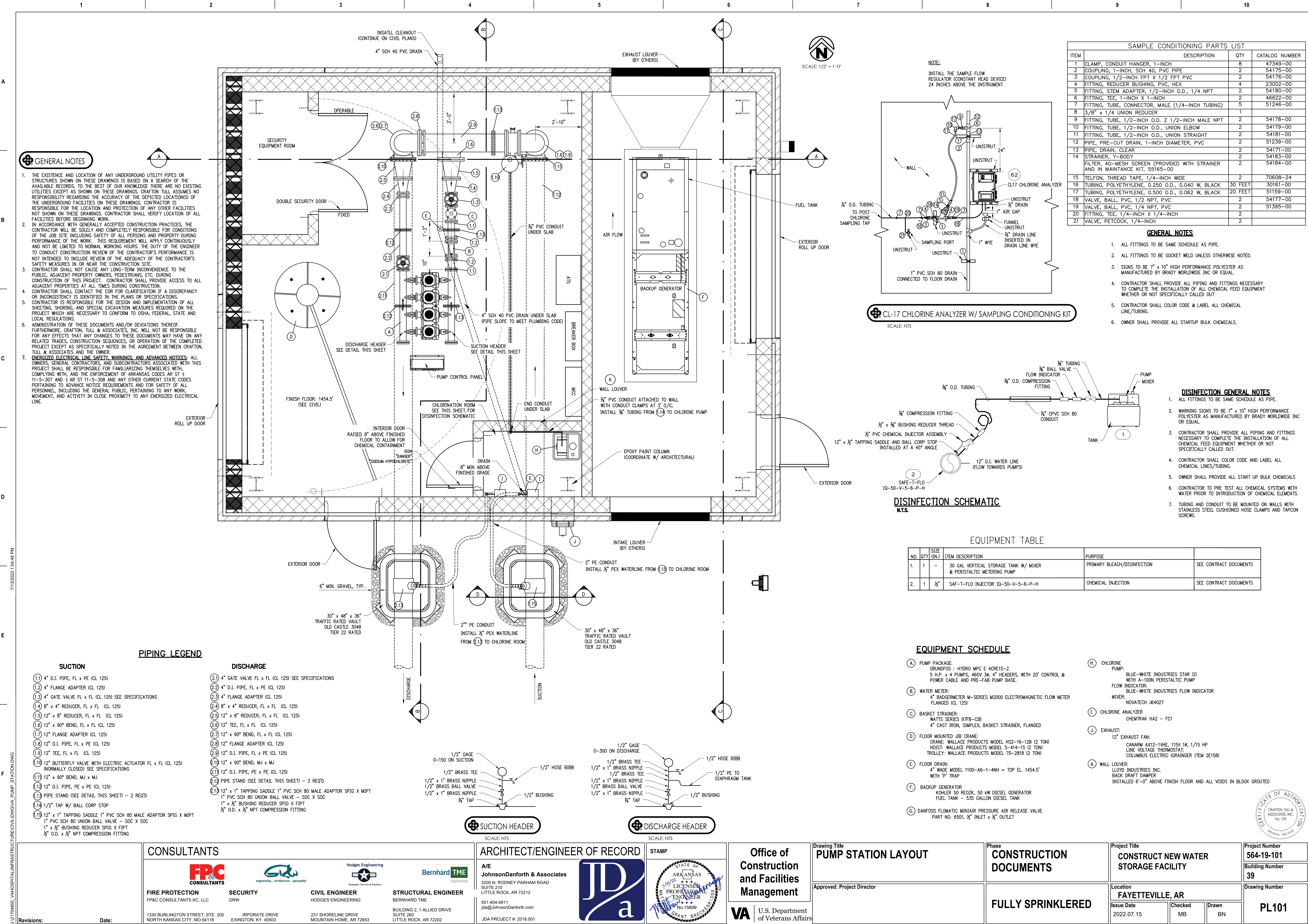
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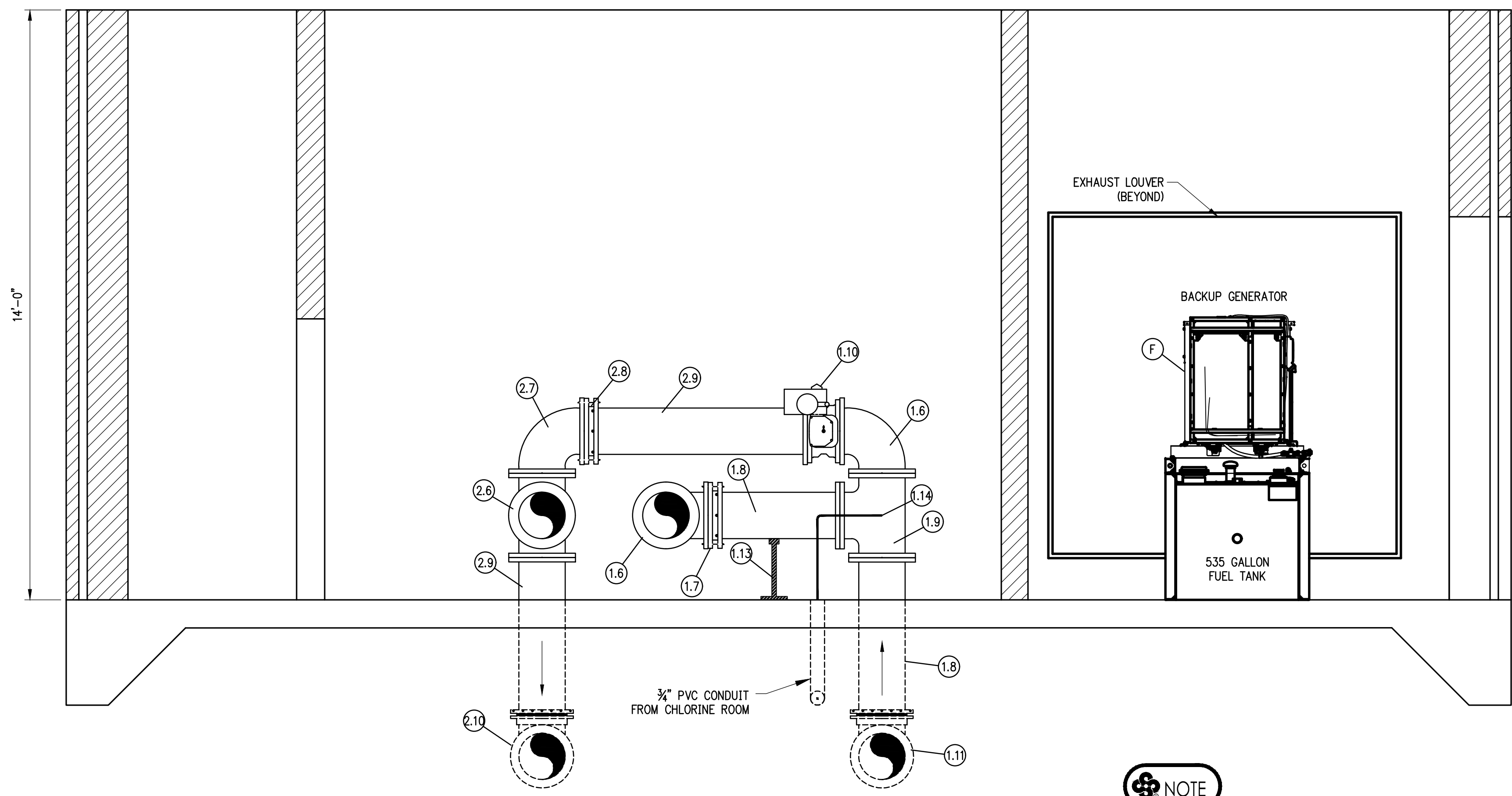
Checked

MB

Drawn

BN





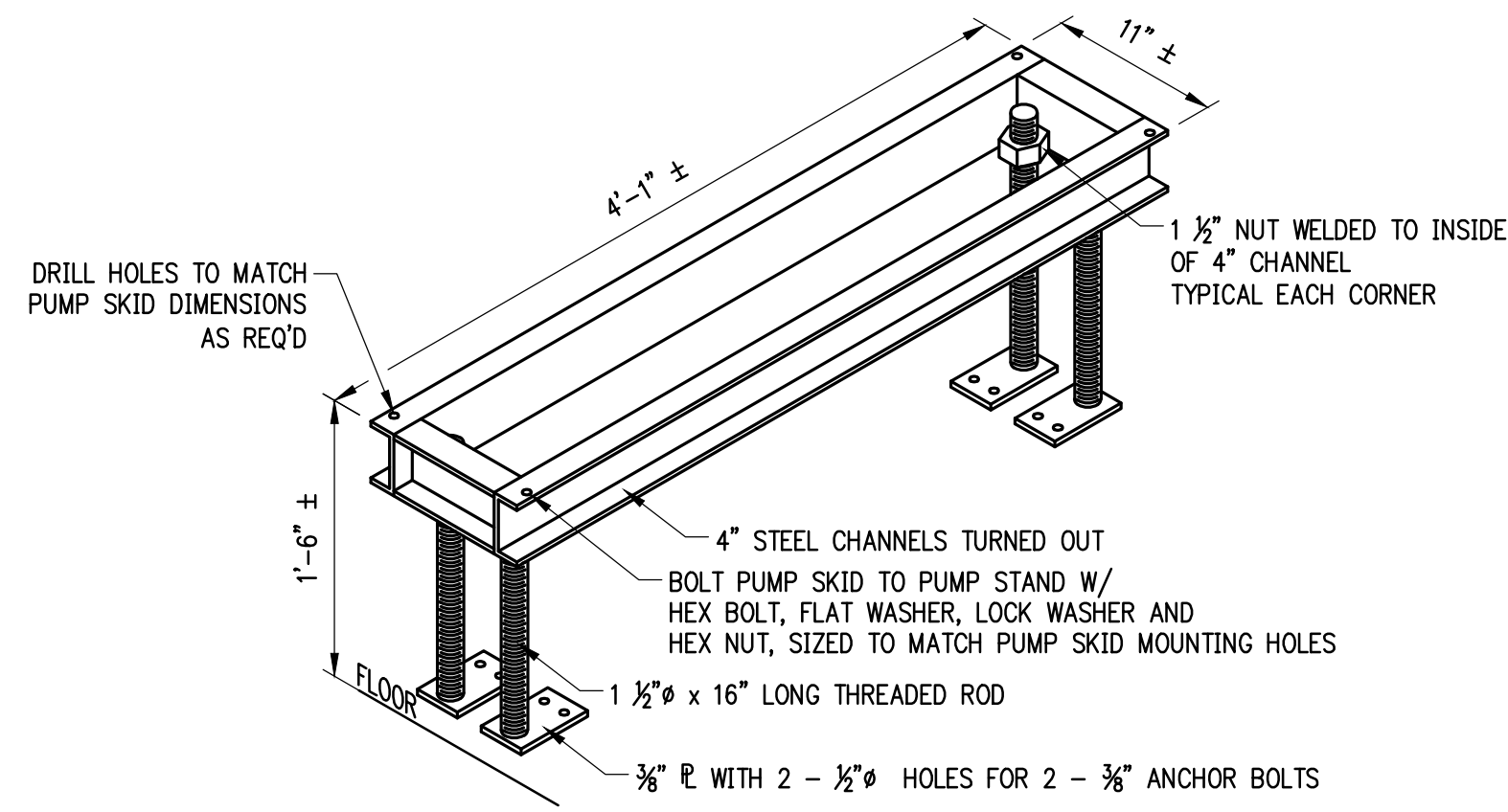
SECTION A-A
SCALE: 1/2" = 1'-0"



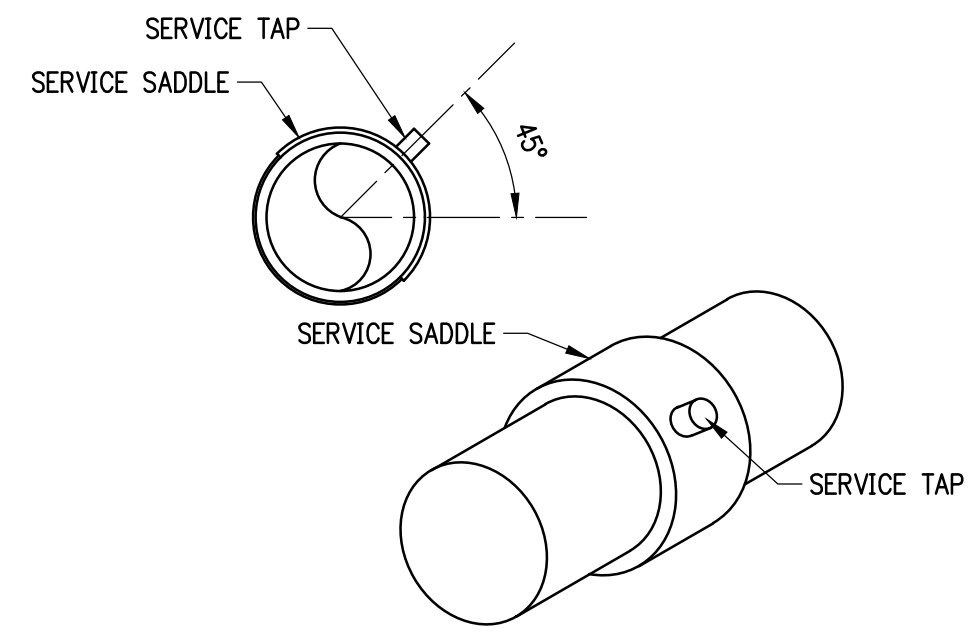
1. REFER TO PIPING SCHEDULE & EQUIPMENT SCHEDULE ON SHEET PL101



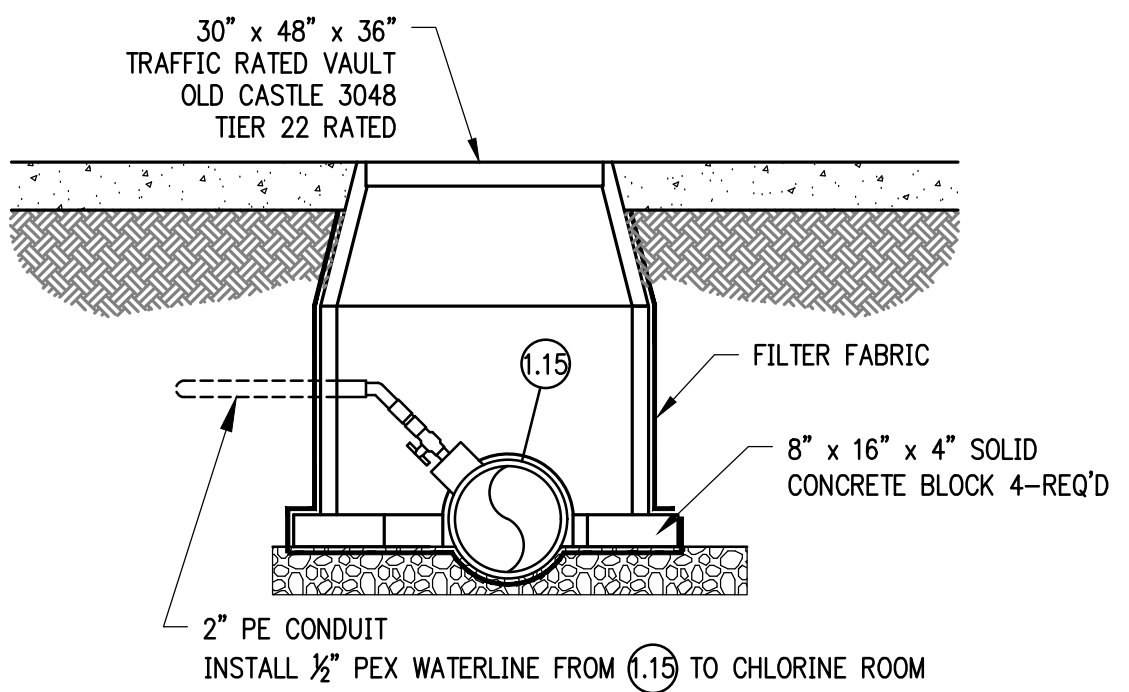
1. CONTRACTOR TO FIELD VERIFY DIMENSIONS BEFORE CONSTRUCTION OF PUMP STAND
2. ALL SEAMS TO BE WELDED CONTINUOUS GROUND SMOOTH



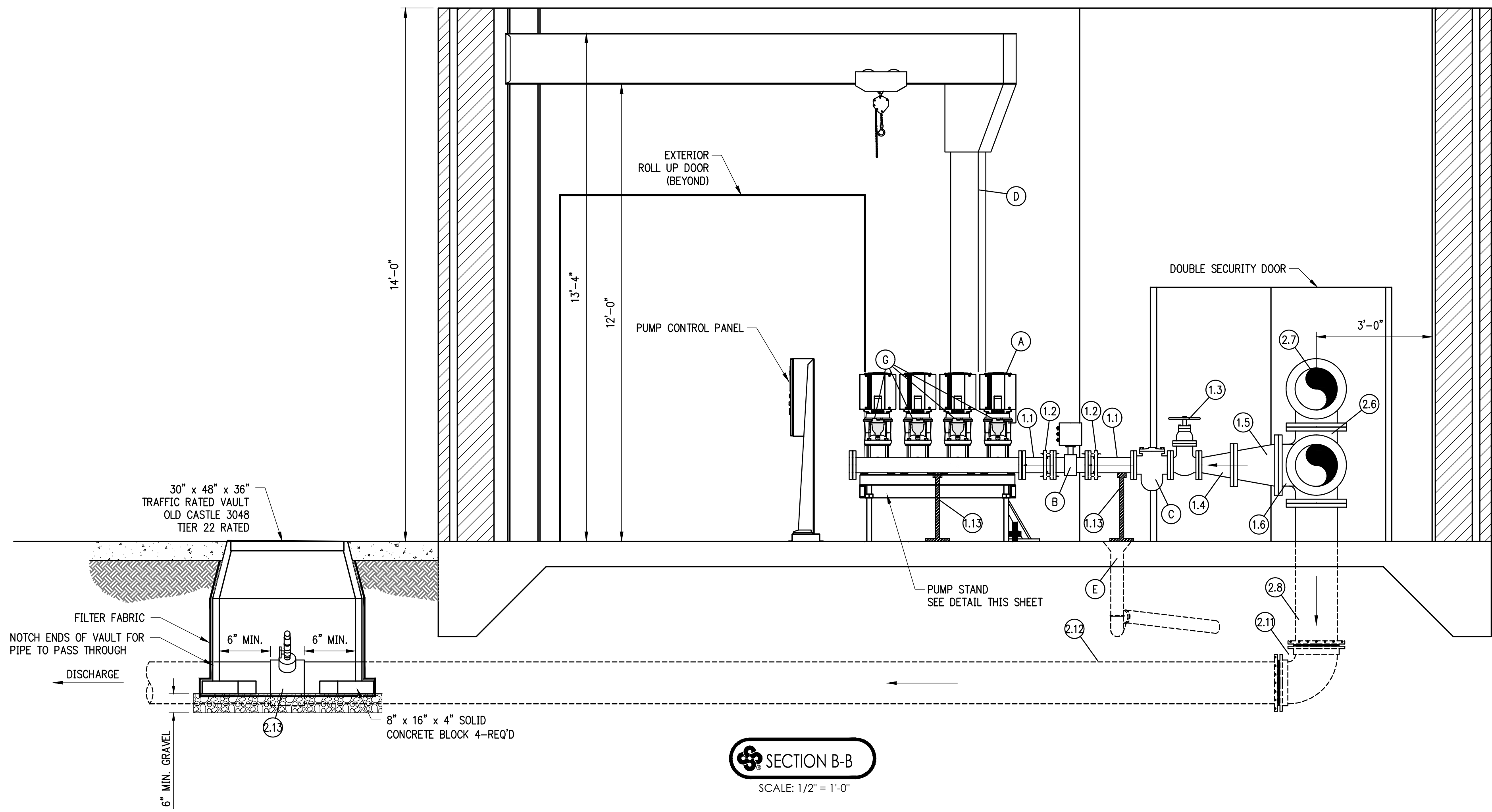
PUMP STAND DETAIL
SCALE: 1" = 1'-0"



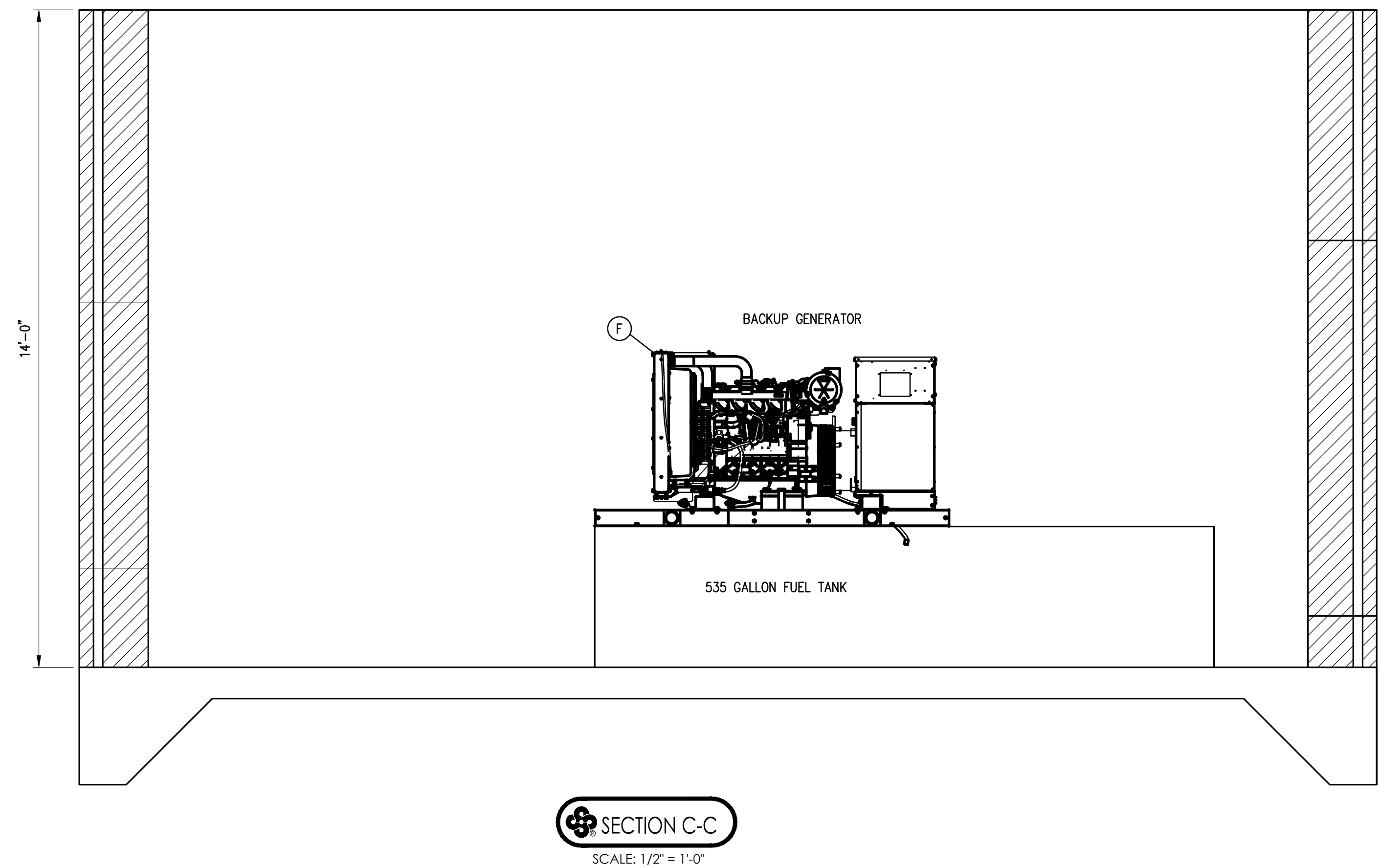
SAMPLE TAP ORIENTATION DETAIL
SCALE: NTS



SECTION D-D
SCALE: 1/2" = 1'-0"

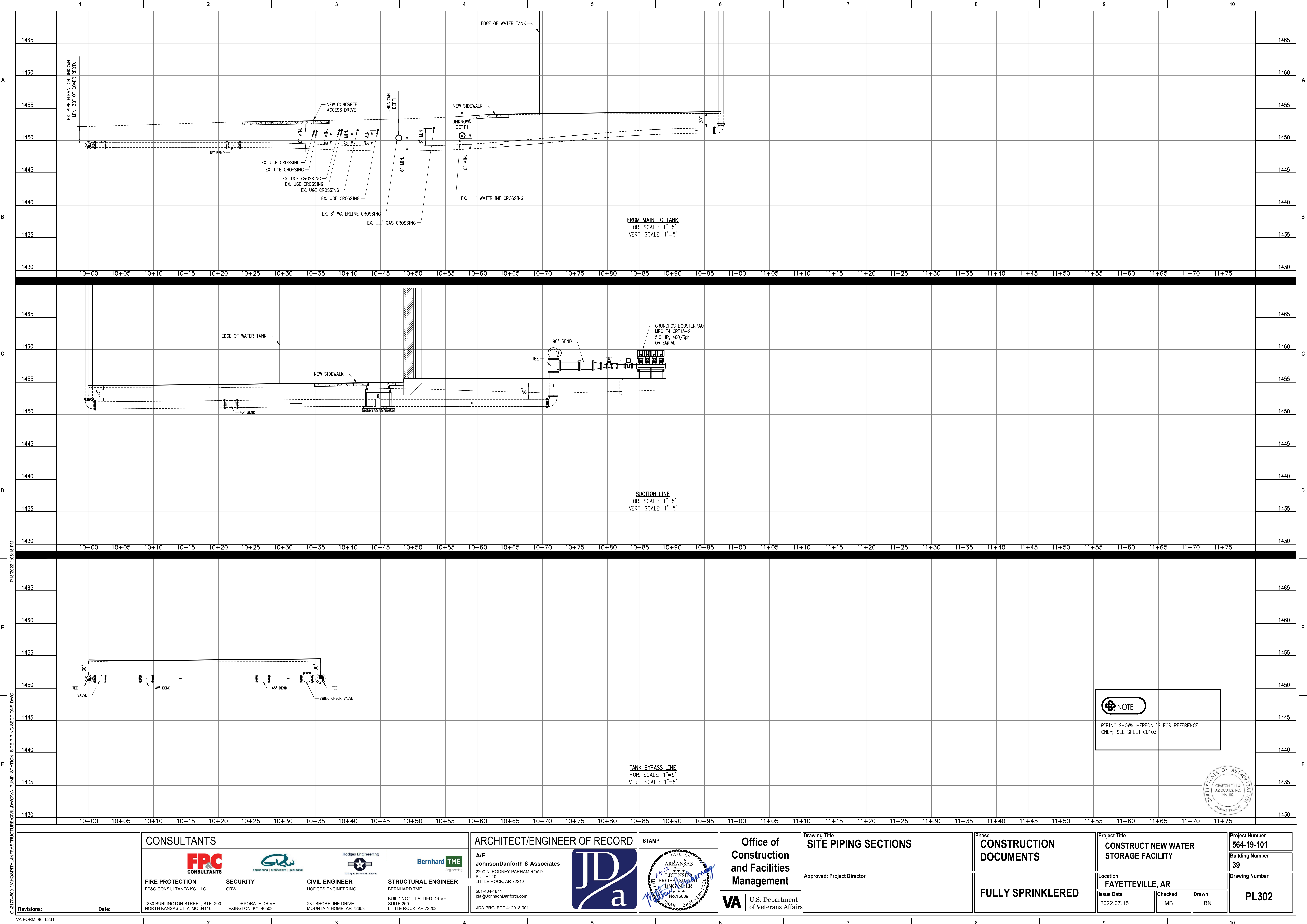


SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"

CONSULTANTS FIRE PROTECTION FPC CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116 SECURITY GRW 1RPORATE DRIVE EXINGTON, KY 40503 CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653 STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 200 LITTLE ROCK, AR 72202				ARCHITECT/ENGINEER OF RECORD A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title PUMP STATION SECTION Approved: Project Director		Phase CONSTRUCTION DOCUMENTS FULLY SPRINKLERED		Project Title CONSTRUCT NEW WATER STORAGE FACILITY Location FAYETTEVILLE, AR Issue Date 2022.07.15 Checked MB Drawn BN		Project Number 564-19-101 Building Number 39 Drawing Number PL301	
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VA FORM 08 - 6231

GENERAL NOTES

SHEET NOTES

PARTITION LEGEND

 NEW UNRATED PARTITION

 NEW / EXISTING 1 HOUR BARRIER

	<div style="text-align: center;">CONSULTANTS</div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> FIRE PROTECTION FP&C CONSULTANTS KC, LLC <small>1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116</small> </div> <div style="text-align: center;"> CIVIL ENGINEER HODGES ENGINEERING <small>801 CORPORATE DRIVE MOUNTAIN HOME, KY 40503</small> </div> <div style="text-align: center;"> STRUCTURAL ENGINEER BERNHARD TME <small>BUILDING 2, 1 ALLIED DRIVE SUITE 280 LITTLE ROCK, AR 72202</small> </div> </div>	<div style="text-align: center;">ARCHITECT/ENGINEER OF RECORD</div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 45%;"> <p>A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001</p> </div> <div style="width: 50%; text-align: center;"> </div> </div>	STAMP	<div style="text-align: center;">Office of Construction and Facilities Management</div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="font-size: 2em;">VA</div> <div>U.S. Department of Veterans Affairs</div> </div>	<div>Drawing Title</div> <div style="text-align: center;">MECHANICAL NOTES AND LEGEND</div> <div>Approved: Project Director</div>	<div>Phase</div> <div style="text-align: center;">CONSTRUCTION DOCUMENTS</div> <div style="height: 100px; text-align: center; vertical-align: middle;">FULLY SPRINKLERED</div>	<div>Project Title</div> <div style="text-align: center;">CONSTRUCT NEW WATER STORAGE FACILITY</div> <div>Location FAYETTEVILLE, AR</div> <div>Issue Date 2022.05.12</div> <div>Checked BB</div> <div>Drawn CD</div>	<div>Project Number 564-19-101</div> <div>Building Number</div> <div>Drawing Number M101</div>
Revisions:	Date:							

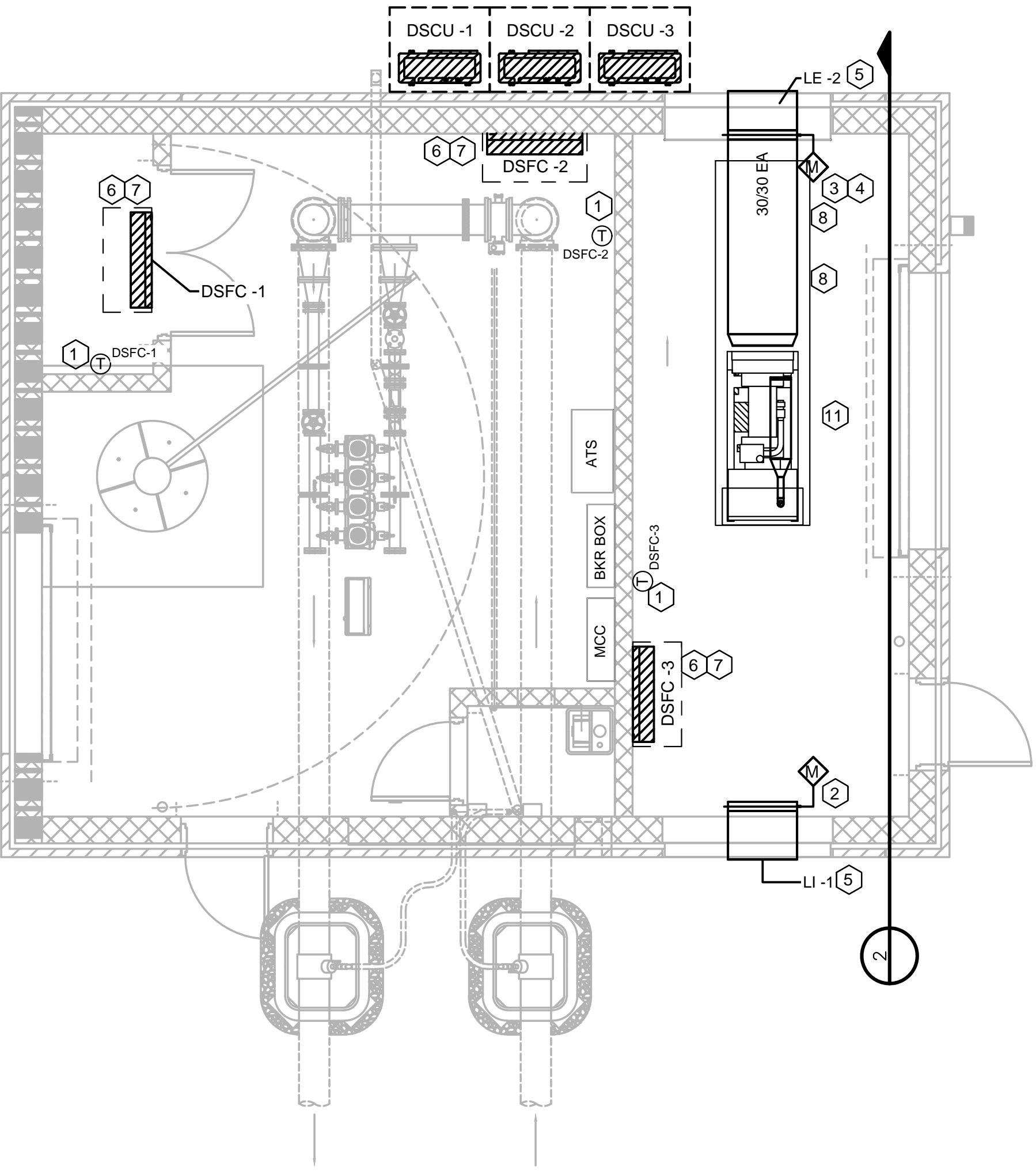
GENERAL NOTES

- # KEYED NOTES:
1. PROVIDE DUCTLESS SPLIT MANUFACTURER'S HARDWIRED THERMOSTAT - MOUNT PER ADA REQUIREMENTS. INTEGRATE MINISPLIT CONTROLS WITH CAMPUS CONTROL SYSTEM.
 2. PROVIDE INTAKE LOUVER ASSEMBLY, LI-1: EXTERNAL STATIONARY LOUVER, BLAST DAMPER AND INTERNAL MOTORIZED CONTROL DAMPER WITH ACTUATOR INTERLOCKED WITH GENERATOR ENGINE. WHEN GENERATOR IS CALLED TO ENERGIZE, LOUVER SHALL BE OPEN. ACTUATOR SHALL FAIL OPEN. COORDINATE POWER AND INTERLOCK REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
 3. PROVIDE EXHAUST DUCT FROM GENERATOR RADIATOR TO LOUVER ASSEMBLY, LE-2: EXTERNAL STATIONARY LOUVER, BLAST PROOF DAMPER AND INTERNAL MOTORIZED CONTROL DAMPER INTERLOCKED WITH GENERATOR. REFER TO ELECTRICAL FOR FULL CONTROL SEQUENCE. WHEN GENERATOR IS ENERGIZED, LOUVER SHALL BE OPEN. ACTUATOR SHALL FAIL OPEN.
 4. PROVIDE 12"X12" DUCT ACCESS DOOR FOR ACCESS TO LOUVER ACTUATOR. TYPICAL OF ALL DUCTED LOUVER/DAMPERS.
 5. MOUNT BOTTOM OF LOUVER AT SAME ELEVATION AS GENERATOR RADIATOR EXHAUST A MINIMUM OF 8" AFF. COORDINATE FINAL PLACEMENT WITH ARCHITECTURAL AND BLOCK COURSING.
 6. DUCTLESS SPLIT SYSTEM WALL MOUNTED TERMINAL UNIT. ROUTE INSULATED REFRIGERANT PIPING SIZED PER MANUFACTURER'S RECOMMENDATIONS FROM UNIT TO EXTERIOR WALL AND DROP INSIDE BUILDING NEAR ASSOCIATED CONDENSER. PENETRATE THROUGH TO EXTERIOR 12" AFF.
 7. ROUTE 3/4" SCH 40 PVC CONDENSATE FROM DUCTLESS SPLIT CASSETTE TO 1" CD (REFER TO DETAILS). ROUTE CD OVERHEAD TO EXTERIOR PORCH COLUMN AND DROP ALONG COLUMN. TERMINATE IN LANDSCAPED AREA 3" AFG.
 8. FUEL TANK VENT CONNECTIONS THIS AREA. COORDINATE WITH GENERATOR AND TANK MANUFACTURER TO MEET REQUIREMENTS (CUSTOM AS REQUIRED). ROUTE STEEL EXHAUST PIPING SEPARATE AND FULL SIZED FROM FUEL TANK UP THROUGH ROOF TO GOOSENECK TERMINATION. COVER OPENING WITH INSECT SCREEN. OFFSET AS REQUIRED TO AVOID INTERFERENCE WITH ROOM OPERATIONS. STRUCTURAL, OR ARCHITECTURAL COMPONENTS. TERMINATION SHALL COMPLY WITH LOCAL CODES AND PER GENERATOR MANUFACTURER'S RECOMMENDATIONS. TYPICAL FOR ALL FUEL TANK VENTS.
 9. ROUTE GENERATOR ENGINE EXHAUST UP THROUGH ROOF. PROVIDE GENERATOR MANUFACTURER'S RECOMMENDED EXHAUST PENETRATION FITTING (THIMBLE) AT ROOF PENETRATION. REFER TO GENERATOR SPECIFICATIONS. ROUTE PER MANUFACTURER'S RECOMMENDATIONS AND CLEARANCES.
 10. CRITICAL EXHAUST SILENCER PROVIDED WITH GENERATOR. INSTALLED BY MECHANICAL CONTRACTOR. REFER TO GENERATOR SPECIFICATIONS. MAINTAIN APPROX. 2' CLEARANCE TO COMBUSTIBLES.
 11. MAINTAIN ACCESS AND CLEARANCE TO GENERATOR TANK FUEL FILL PORT AND INDICATOR.

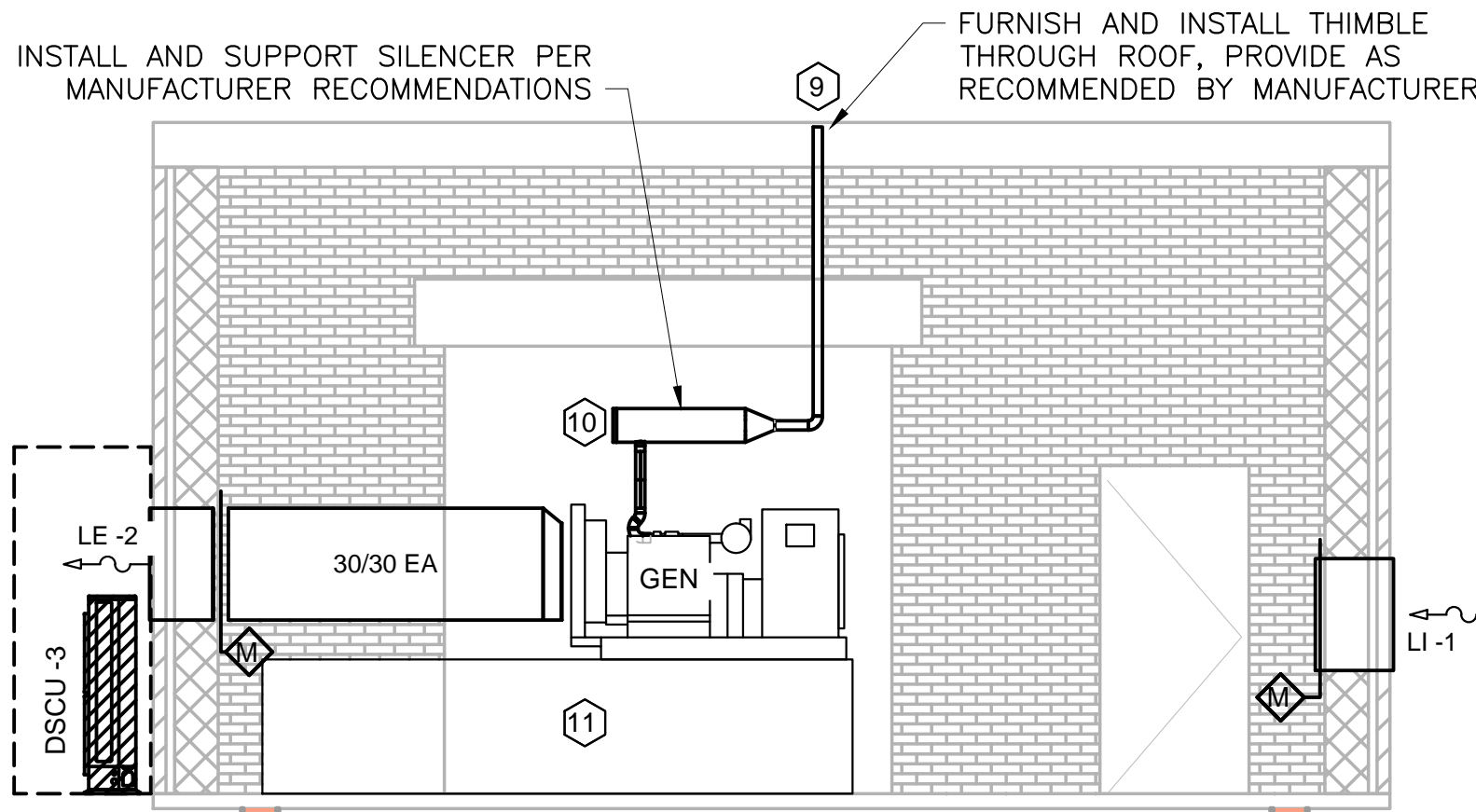
SHEET NOTES

PARTITION LEGEND

- NEW UNRATED PARTITION
- NEW / EXISTING 1 HOUR BARRIER



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



2 GENERATOR SECTION
SCALE: 1/4" = 1'-0"

HVAC -- DUCTLESS SPLIT CONDENSER SCHEDULE									
DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	ELECTRICAL DATA				REMARKS
TYPE	MARK				VOLTAGE	PHASE	MCA	MOCP	
DSCU	1	SPLIT SYSTEM CONDENSING UNIT	SAMSUNG	AC030JXADCH/AA	208 V	1	20.3 A	30.0 A	
DSCU	2	SPLIT SYSTEM CONDENSING UNIT	SAMSUNG	AC036JXADCH/AA	208 V	1	23.2 A	35.0 A	
DSCU	3	SPLIT SYSTEM CONDENSING UNIT	SAMSUNG	AC036JXADCH/AA	208 V	1	23.2 A	35.0 A	
1 OUTDOOR UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH. SEE ELECTRICAL.									
2 CONDENSER SHALL BE PROVIDED WITH LOW AMBIENT CONTROL.									
3 CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.									

HVAC -- DUCTLESS SPLIT FAN COIL SCHEDULE									
DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	COOLING DATA		ELECTRICAL DATA		REMARKS
TYPE	MARK				MAX SUPPLY AIR	TOTAL COOLING	VOLTAGE	PHASE	
DSFC	1	2.5 TON WALL COIL UNIT	SAMSUNG	AC030MNTDCH/AA	777 CFM	30,000 Btu/h	208 V	1	
DSFC	2	3 TON WALL COIL UNIT	SAMSUNG	AC036MNTDCH/AA	830 CFM	36,000 Btu/h	208 V	1	
DSFC	3	3 TON WALL COIL UNIT	SAMSUNG	AC036MNTDCH/AA	830 CFM	36,000 Btu/h	208 V	1	
1 PROVIDE WITH HARD-WIRED PROGRAMMABLE THERMOSTAT MOUNTED ON WALL. SEE CONTROL DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.									
2 INDOOR UNIT POWERED FROM OUTDOOR UNIT.									
3 AHU CONDENSATE SHALL BE RUN FULL SIZE AND DISCHARGE TO EXTERIOR OF BUILDING, AS PER MANUFACTURER'S RECOMMENDATION.									
4 UNIT SHALL OPERATE ON R-410A.									

HVAC -- LOUVER SCHEDULE									
DESIGNATION		MODEL: EXT STATIONARY / BLAST DAMPER / MOTORIZED CONTROL DAMPER	STYLE	AIRFLOW DATA		FACE SIZE		FINISH	REMARKS
TYPE	MARK			FREE AREA	MAX INLET VELOCITY	W	H		
LI	1	GREENHECK ESD-635 / HBS-430 / SEVCD-23	LOUVER ASSEMBLY: STATIONARY EXTERIOR LOUVER, BLAST DAMPER, AND MOTORIZED CONTROL DAMPER W/ ACTUATOR	3.1 SF	900 FPM	30"	30"	COORDINATE W/ ARCHITECT	PROVIDE WITH 120V ACTUATOR EQUAL TO HONEYWELL MODEL MS4109F1010
LE	2	GREENHECK ESD-635 / HBS-431 / SEFSD-211	LOUVER ASSEMBLY: STATIONARY EXTERIOR LOUVER, BLAST DAMPER, AND MOTORIZED CONTROL DAMPER W/ ACTUATOR	3.1 SF	900 FPM	30"	30"	COORDINATE W/ ARCHITECT	PROVIDE WITH 120V ACTUATOR EQUAL TO HONEYWELL MODEL MS4109F1010
1 CONTRACTOR SHALL COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR SHALL SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT BEFORE ORDERING ALL LOUVERS.									
2 LOUVERS SHALL BE INSTALLED WITH BIRD SCREEN.									
3 FINAL HEIGHT AND LOCATION OF LOUVER SHALL BE COORDINATED WITH GENERATOR RADIATOR EXHAUST LOCATION.									

Revisions:Date:

CONSULTANTS

FPCCONSULTANTS

FIRE PROTECTION

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NORTH KANSAS CITY, MO 64116

SECURITY

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LEXINGTON, KY 40503

CIVIL ENGINEER

HODGES ENGINEERING

231 SHORELINE DRIVE

MOUNTAIN HOME, AR 72653

STRUCTURAL ENGINEER

BERNHARD TME

BUILDING 2, 1 ALLIED DRIVE

SUITE 260

LITTLE ROCK, AR 72202

ARCHITECT/ENGINEER OF RECORD

A/E

JohnsonDanforth & Associates

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LITTLE ROCK, AR 72212

501-404-4811

jda@JohnsonDanforth.com

JDA PROJECT #: 2018.001

STAMP

STATE OF ARKANSAS

REGISTERED PROFESSIONAL ENGINEER

NO. 4267

DATE C. RICHARD JONES

Office of Construction and Facilities Management

VAU.S. Department of Veterans Affairs

Drawing Title

MECHANICAL

HVAR FLOOR PLAN

Approved: Project Director

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW WATER STORAGE FACILITY

Location

FAYETTEVILLE, AR

Issue Date

2022.05.12

Checked

BB

Drawn

CD

Project Number

564-19-101

Building Number

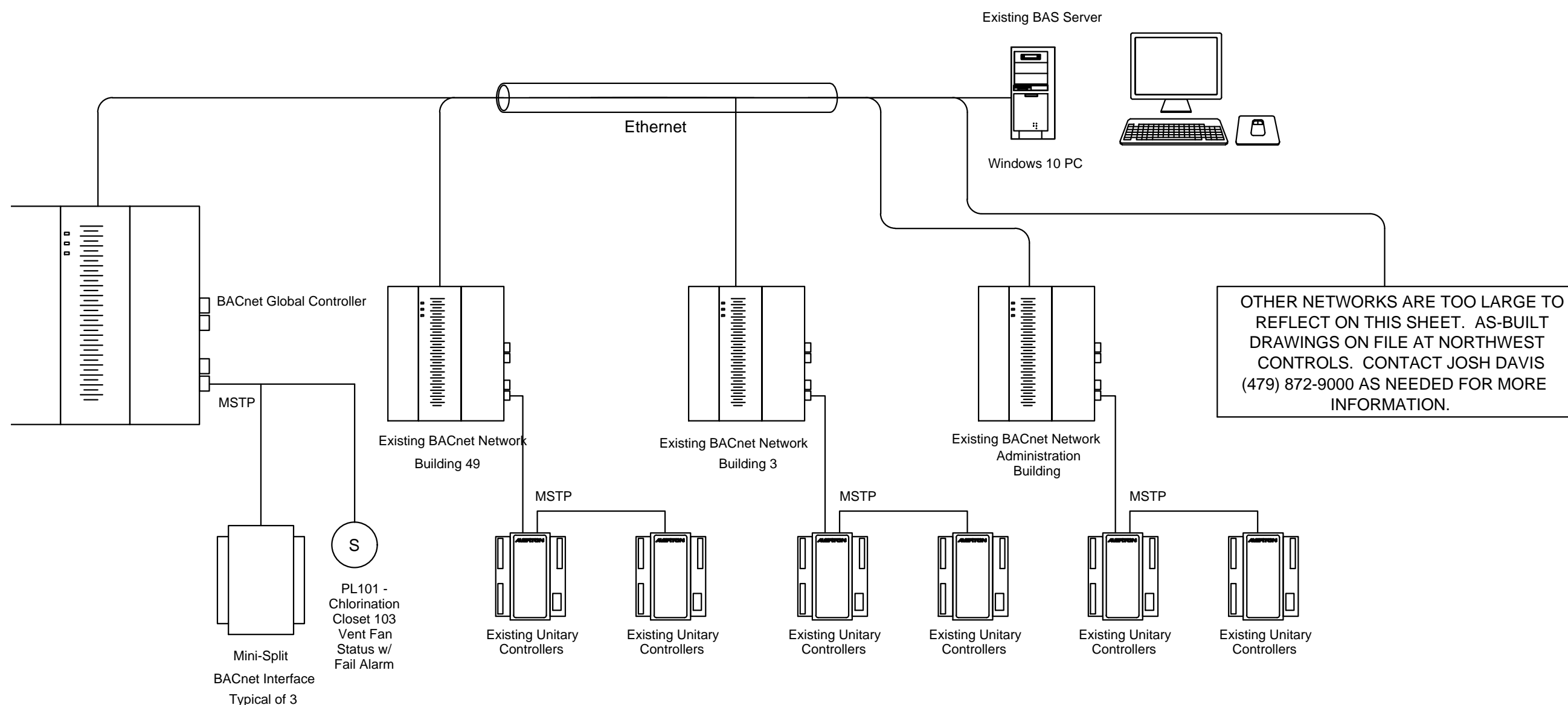
Drawing Number

M201

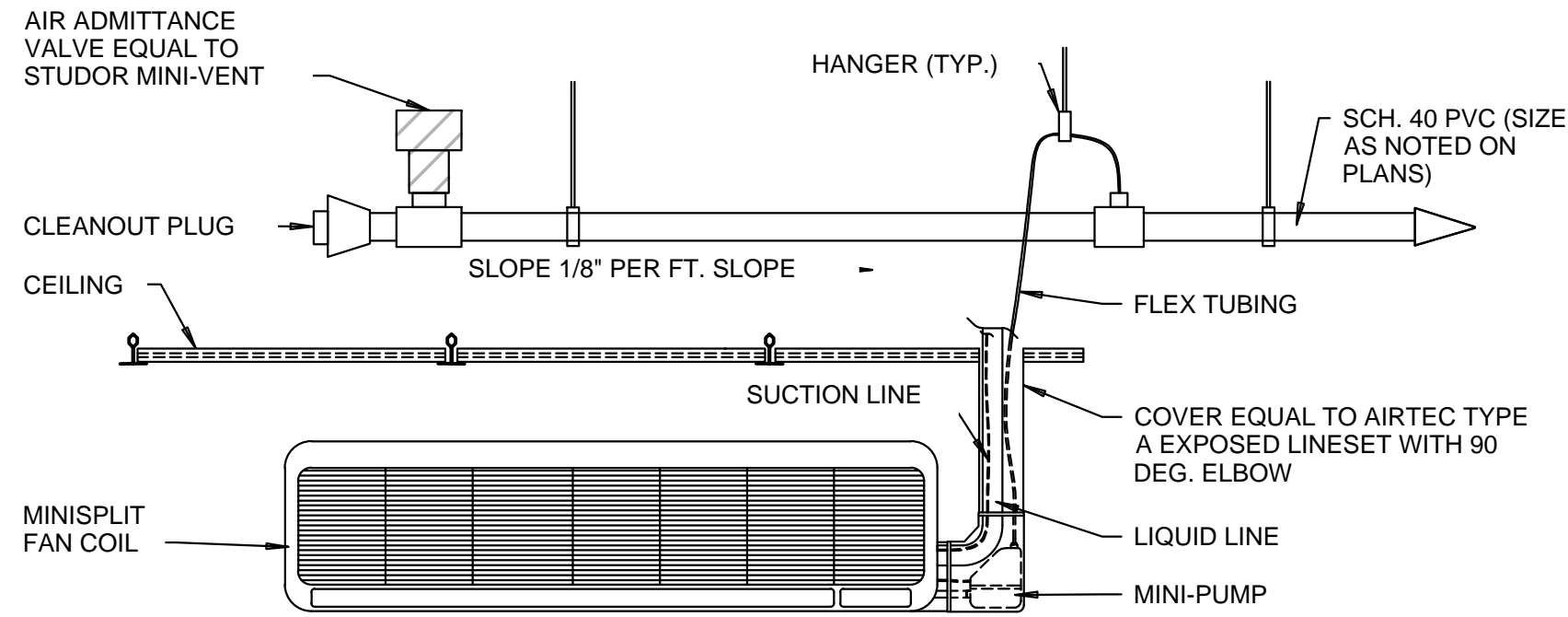
CONTROLLED UNCLASSIFIED INFORMATION - CUI

GENERAL NOTES

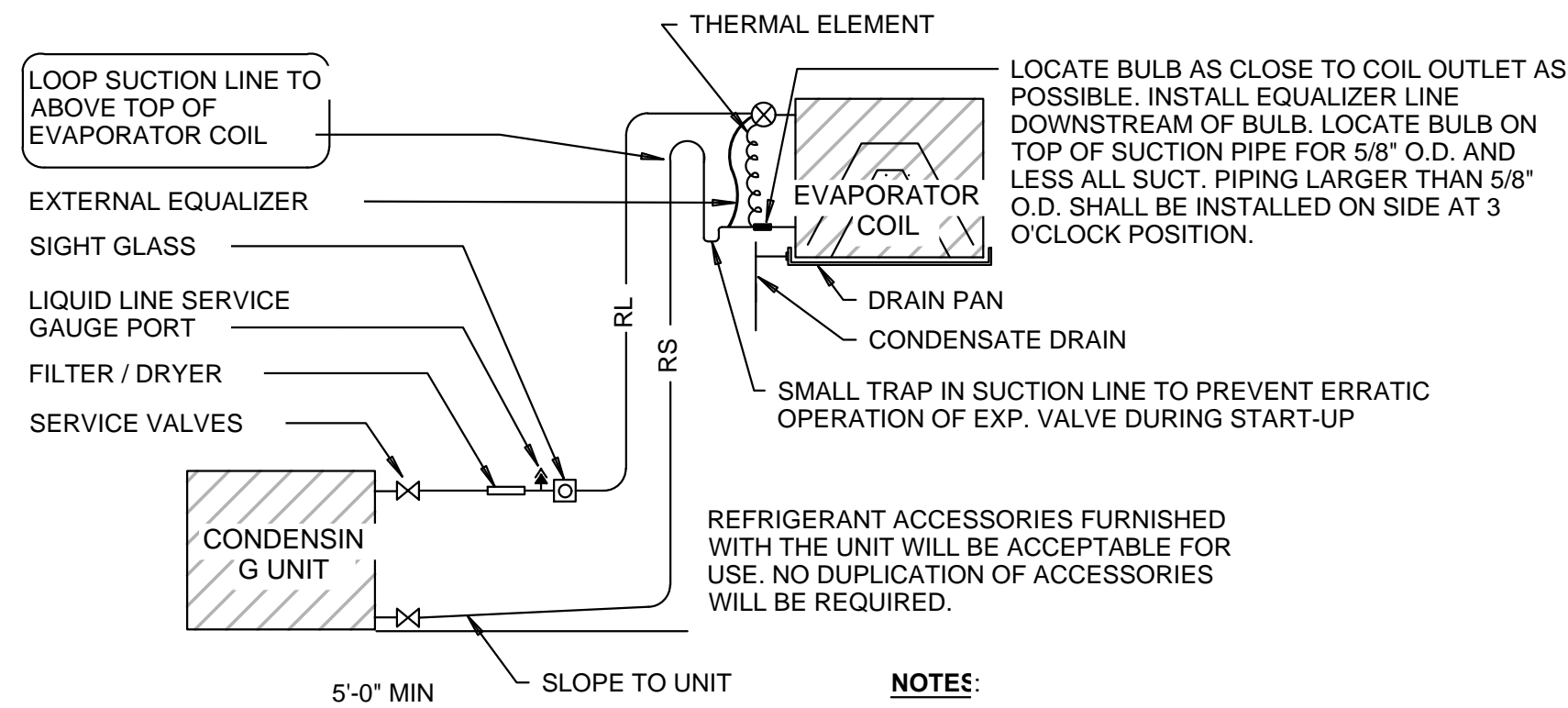
System Architecture



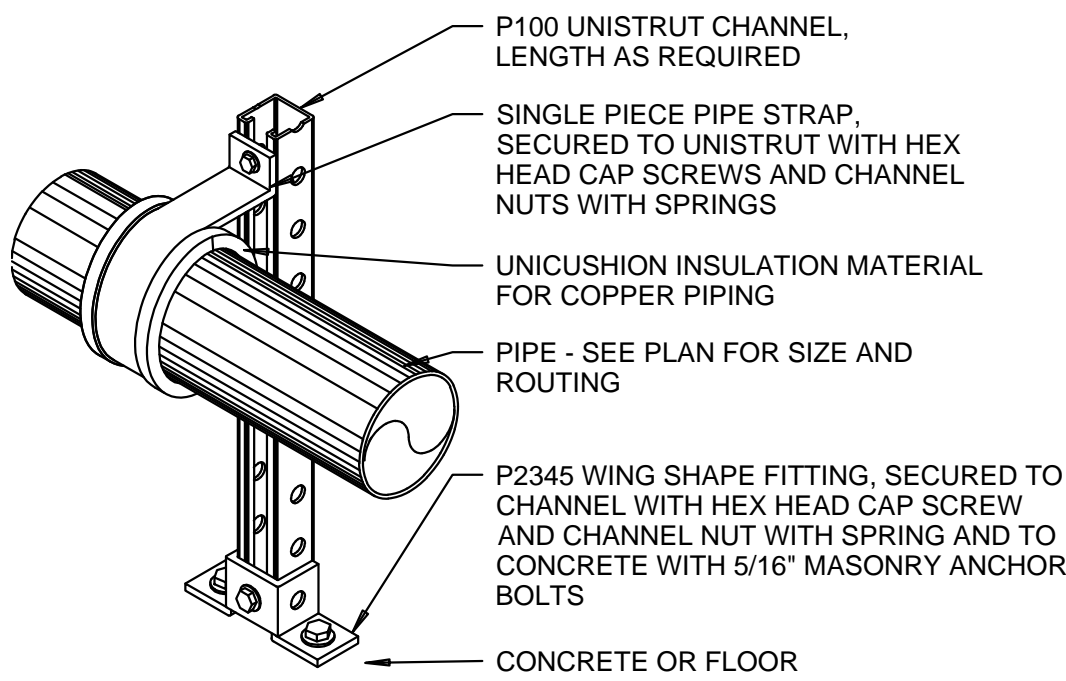
1 SYSTEM ARCHITECTURE
SCALE: NONE



2 DUCTLESS WALL MINISPLIT
SCALE: NONE



3 REFRIGERANT PIPING
SCALE: NONE



4 PIPE SUPPORT
SCALE: NONE

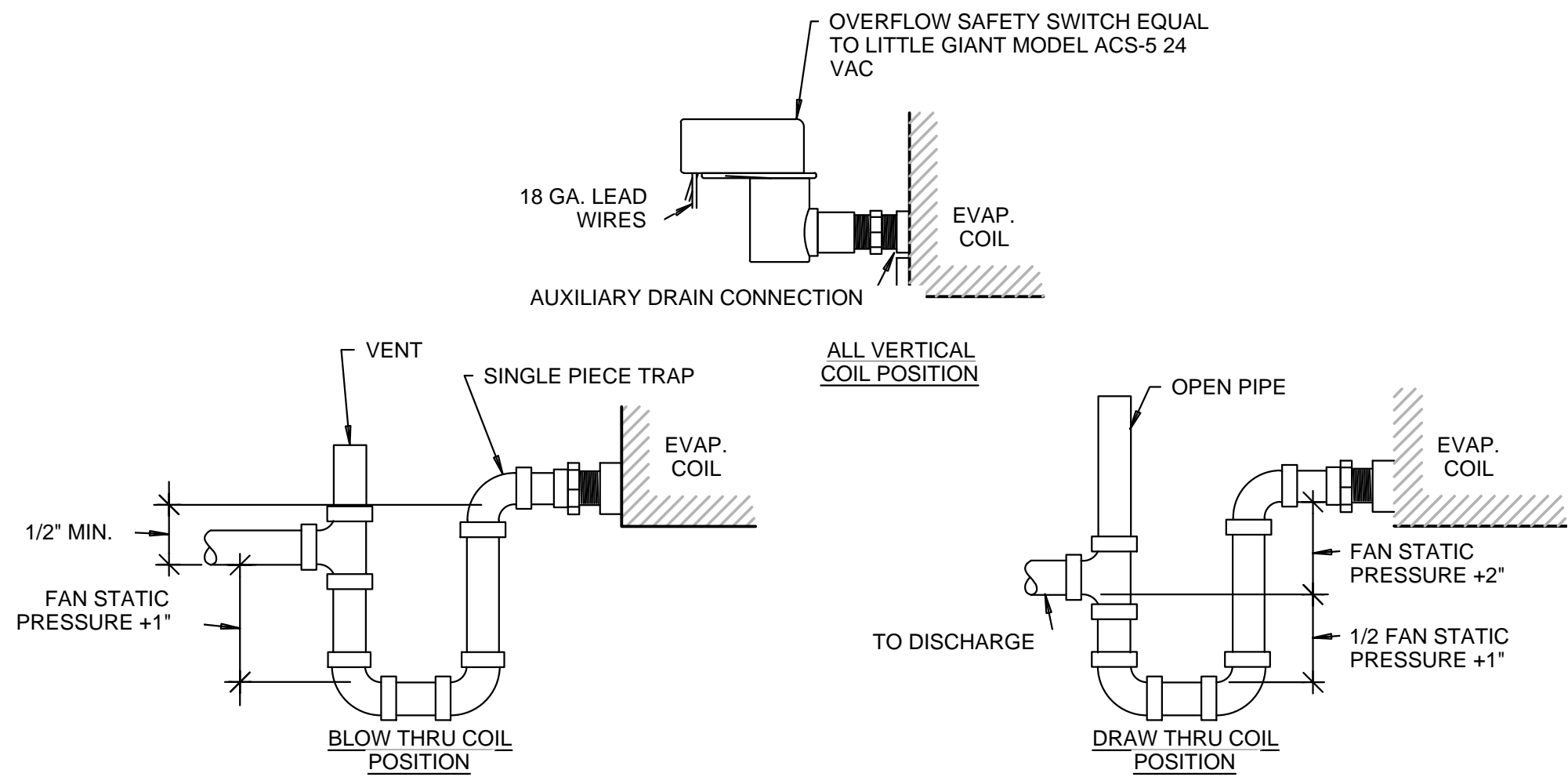
SHEET NOTES

PARTITION LEGEND

	NEW UNRATED PARTITION
	NEW / EXISTING 1 HOUR BARRIER

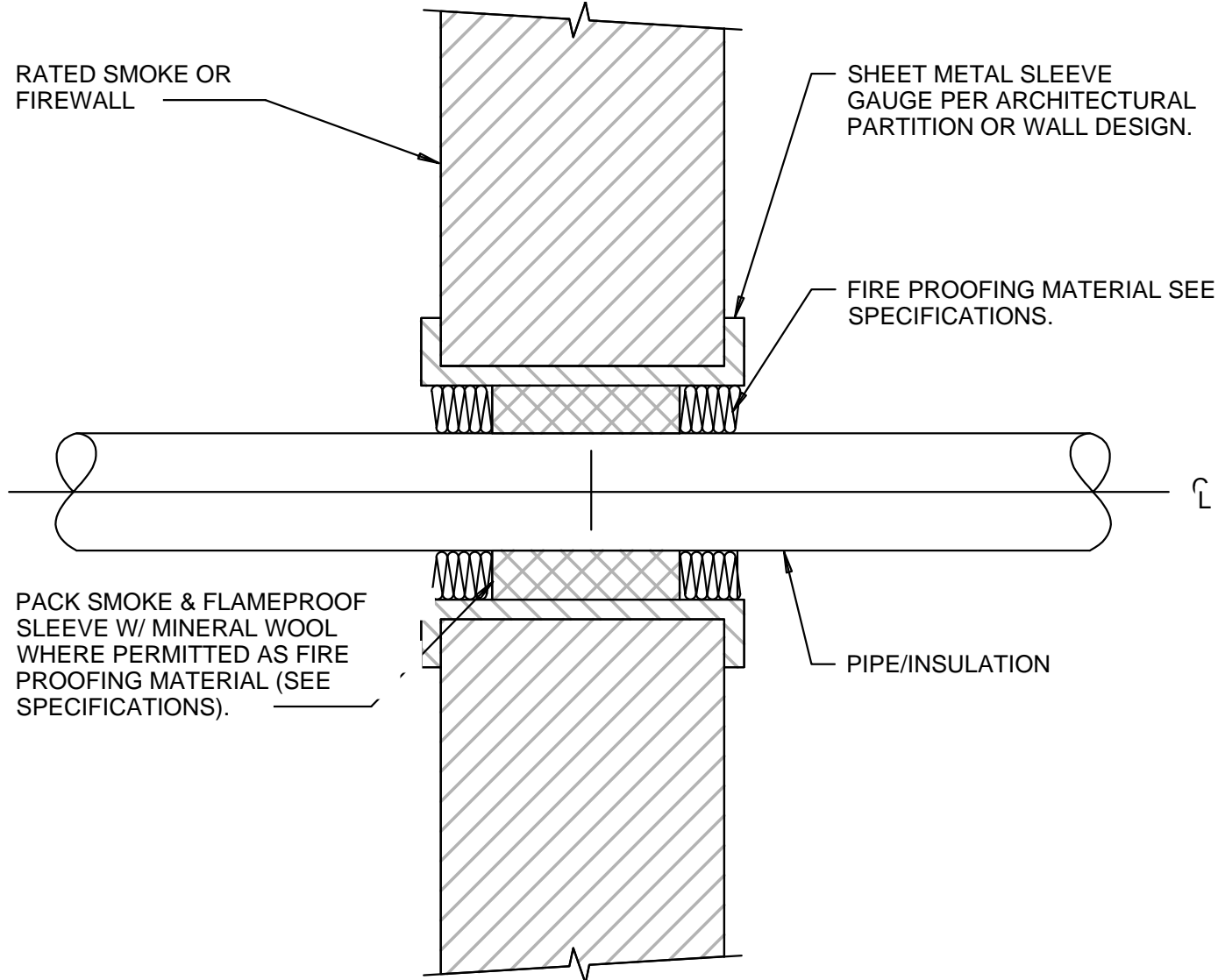
Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title MECHANICAL HVAR DETAILS Approved: Project Director	Phase CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101 Building Number	
	Date:	 FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116	 SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503	 CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653	 STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 260 LITTLE ROCK, AR 72202	 A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001				Location FAYETTEVILLE, AR		Drawing Number M301	

GENERAL NOTES

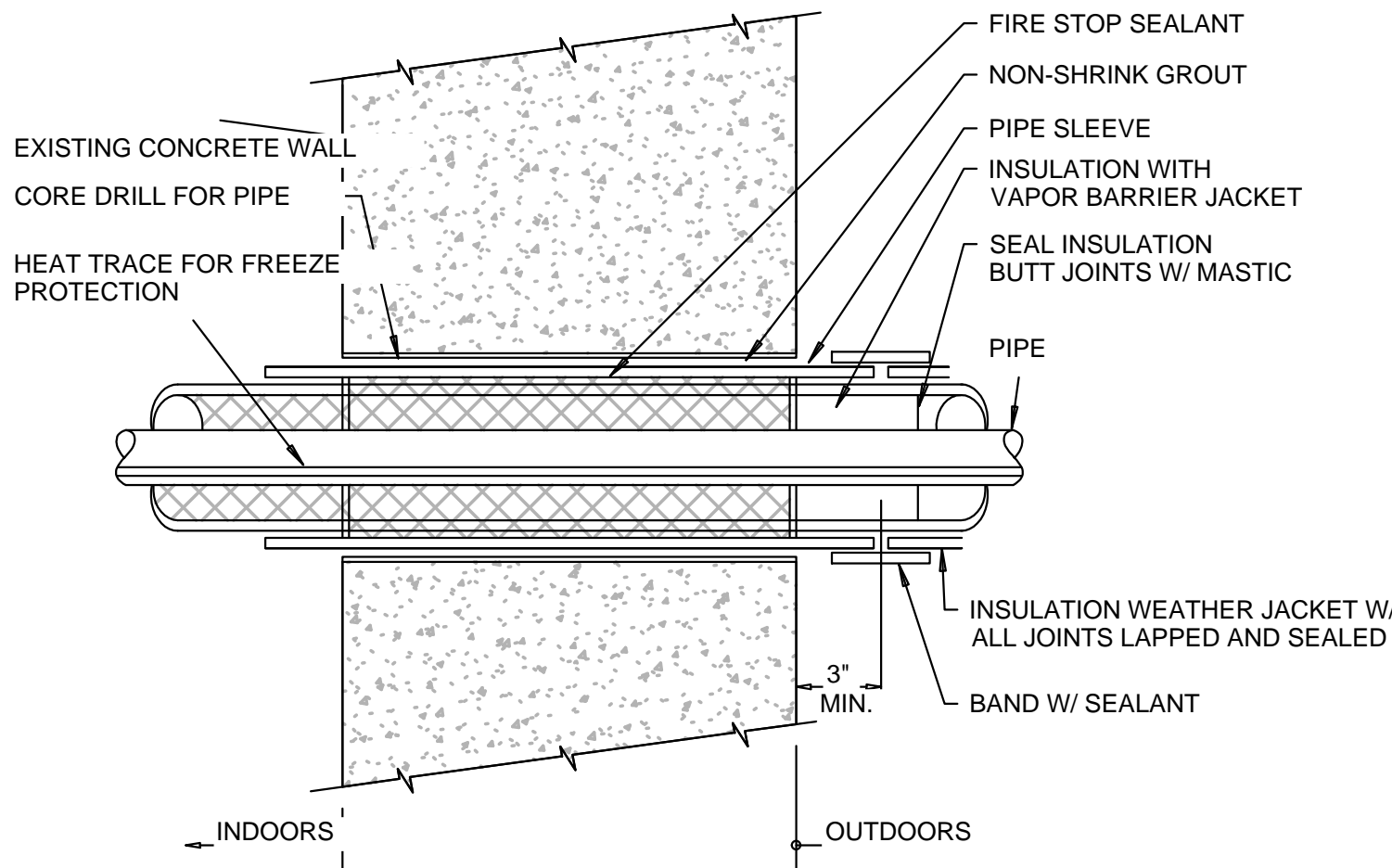


- NOTES:
1. RUNNING TRAPS WILL NOT BE ACCEPTED.
 2. INSTALL FACTORY FURNISHED TRAP WITH OUTSIDE AIR UNITS.
 3. CONDENSATE DISCHARGE LOCATION SHALL MEET REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

1 CONDENSATE TRAP
SCALE: NONE

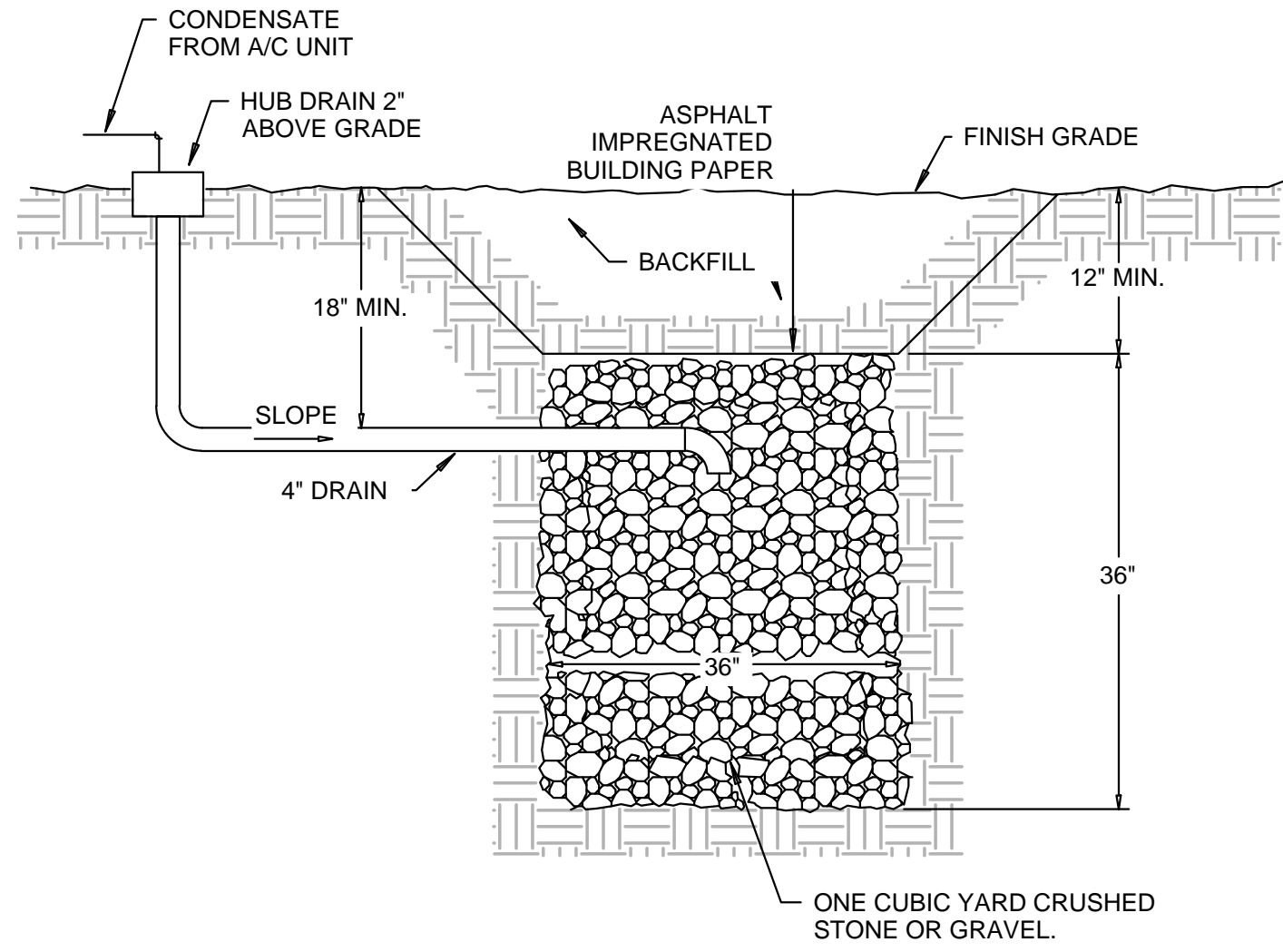


3 PIPE PENETRATION AT SMOKE AND FIREWALL
SCALE: NONE



NOTE:
SIMILAR AT INTERIOR WALLS EXCEPT WITHOUT EXTERIOR INSULATION AND JACKETING.

2 PIPE PENETRATION - WALL
SCALE: NONE




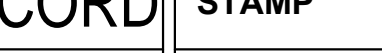



4 AREA CONDENSATE DRAIN
SCALE: NONE

SHEET NOTES

PARTITION LEGEND

- NEW UNRATED PARTITION
- NEW / EXISTING 1 HOUR BARRIER

Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD				STAMP	Office of Construction and Facilities Management	Drawing Title MECHANICAL HVAR DETAILS	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101					
	 FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116				 SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503		 CIVIL ENGINEER HODGES ENGINEERING 231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653						 STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 260 LITTLE ROCK, AR 72202		A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001				Building Number	
	Date:						Approved: Project Director						FAYETTEVILLE, AR		Drawing Number M302					
		FULLY SPRINKLERED						VA		U.S. Department of Veterans Affairs		Issue Date 2022.05.12		Checked BB	Drawn CD					

GENERAL NOTES

POWER, LIGHTING & SYSTEM LEGEND

	UNDER CABINET LIGHT FIXTURE		3/4" PLYWOOD TELEPHONE BACKBOARD, SIZE AS NOTED, MTD. 5'-6" TO TOP
	1x4 FLUORESCENT LIGHT		JUNCTION BOX 42 CUBIC INCH MINIMUM CAPACITY
	2x4 FLUORESCENT LIGHT		SMOKE DETECTOR, WALL MTD.
	FLUORESCENT LIGHT WITH EMERGENCY LIGHT (EL) BATTERY 1400 LUMENS MINIMUM FOR 2 LAMPS		SMOKE DETECTOR, CEILING MTD.
	2x2 FLUORESCENT LIGHT		FIRE ALARM PULL STATION MTD. 4'-0" A.F.F.
	RECESSED LIGHT, UNLESS OTHERWISE SHOWN		FIRE ALARM PULL STATION MTD. 4'-0" A.F.F. AND HORN MTD. 7'-0" A.F.F.
	WALL MOUNTED LIGHT-MOUNTING HEIGHT AS INDICATED		SMOKE DETECTOR, HVAC DUCT MTD.
	LED EXIT LIGHT, CEILING MOUNTED OR AS INDICATED, DARKENED AREA INDICATES FACE, ARROWS INDICATE DIRECTION OF EGRESS		FIRE ALARM CHIME 7'-0" A.F.F.
	EMERGENCY EXIT LIGHT, WALL MOUNT 7'-6" A.F.F. OR AS NOTED		SPRINKLER FLOW SWITCH
	4 FT. STRIP FLUORESCENT LIGHT		FLOOR TELEPHONE OUTLET, CAST JUNCTION-BOX
	LIGHT SWITCH, MTD. 4'-0" A.F.F.		WALL TELEPHONE/DATA OUTLET
	LIGHT SWITCH, 2 POLE, MTD 4'-0" A.F.F.		DOOR SWITCH MOUNTED IN DOOR JAMB
	LIGHT SWITCH, 3-WAY, MTD. 4'-0" A.F.F.		DOOR BUTTON WEATHER PROOF, 50" A.F.F.
	LIGHT SWITCH, 4-WAY, MTD. 4'-0" A.F.F.		DOOR BUZZER MTD 7'-0" A.F.F.
	LIGHT SWITCH WITH PILOT LIGHT, MTD. 4'-0" A.F.F.		HANDHOLE OR MANHOLE, IDENTIFIER SHOWN, REFER TO HANDHOLE OR MANHOLE SCHEDULE FOR SIZE
	20 AMP DUPLEX RECEPTACLE MTD. HORIZ. 6" ABOVE COUNTER TOP UNLESS OTHERWISE SHOWN		CIRCUIT BREAKER, TRIP RATING SHOWN, 3-POLE UNLESS NOTED
	20 AMP DUPLEX RECEPTACLE MTD. 18" A.F.F., WITH #12 GROUND WIRE, GFCI INDICATES GROUND FAULT CIRCUIT INTERRUPTER, WP INDICATES WEATHERPROOF WHILE IN USE ENCLOSURE AND COVER		FUSE, CURRENT LIMITING, RATING AS SHOWN
	SINGLE RECEPTACLE, RATINGS AS NOTED		TRANSFORMER, RATINGS AS SHOWN
	HP RATED TOGGLE SWITCH, 1 OR 2 POLES AS REQUIRED W/OVERLOADS		ELECTRIC MOTOR, HORSEPOWER SHOWN
	NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED		MOTOR STARTER, SIZE AS SHOWN OR REQUIRED, FVNR UNLESS NOTED
	COMBINATION DISCONNECT AND MOTOR STARTER, SIZE AS NOTED. FUSED TYPE SHOWN.		VARIABLE FREQUENCY DRIVE
	FUSED DISCONNECT SWITCH, SIZE AS NOTED		DUCT BANK, IDENTIFIER SHOWN, REFER TO DUCT BANK SCHEDULE FOR SIZE AND CONFIGURATION.
	PUSHBUTTON STATION, NEMA 4X		3/4" x 10' COPPER CLAD GROUND ROD
	ELECTRICAL PANEL, SURFACE MOUNTED, 5'-6" TO TOP OF ENCLOSURE		SURGE ARRESTOR
	ELECTRICAL PANEL, RECESSED MOUNTED, 5'-6" TO TOP OF ENCLOSURE		GENERATOR
	EQUIPMENT CABINET SIZE AS NOTED, RECESSED MOUNTED, 5'-6" TO TOP OF ENCLOSURE		ATS
	EQUIPMENT CABINET SIZE AS NOTED, SURFACE MOUNTED, 5'-6" TO TOP OF ENCLOSURE		WEATHERHEAD
	HOME RUN TO PANEL, RECEPTACLES AND EQUIPMENT SHALL HAVE GREEN GROUND WIRE, NUMBER OF ARROWS INDICATES NUMBER OF PHASE CONDUCTORS, LETTER(S) INDICATE NAME OF PANEL, NUMBER(S) INDICATE CIRCUIT NUMBERS		CABLE CONNECTION
	BRANCH CIRCUIT WITH PHASE, NEUTRAL, SWITCHED PHASE AND EQUIPMENT GROUNDING CONDUCTORS		
	TELEPHONE OR DATA OUTLET, SINGLE GANG BOX MTD. 18" A.F.F. WITH 3/4" stub TO ABOVE LAY-IN CEILING. "W" INDICATES 4'-6" MTD. HEIGHT FOR WALL PHONE.		

LINE TYPES

	FURNISH + INSTALL
	EXISTING

GENERAL NOTE:

1. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE UTILIZED ON THE PROJECT.

ABBREVIATIONS


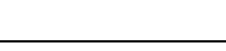
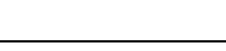
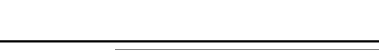
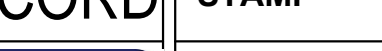

A	AMP	MCB	MAIN CIRCUIT BREAKER
ACU	AIR CONDITIONING UNIT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MCP	MOTOR CIRCUIT PROTECTOR
AIC	AMPS INTERRUPTING CAPACITY	MFR	MANUFACTURER
AM	AMP-METER	MIN	MINIMUM
ANN	ANNUNCIATOR	MS	MOTOR STARTER
AP	AERIAL PRIMARY	MTD	MOUNTED
AS	AERIAL SECONDARY	NTDS	NON-FUSED DISCONNECT SWITCH
AUX	AUXILIARY	NTS	NOT TO SCALE
BFI	BLOWN FUSE INDICATOR	OC	ON CENTER
BKR	BREAKER	OH	OVERHEAD
C	CONDUIT	OL	OVERLOAD
CGRS	PVC COATED GALVANIZED RIGID STEEL	PB	PUSH BUTTON
CKT	CIRCUIT	PEC	PHOTO ELECTRIC CELL
COM	COMMON	PF	POWER FACTOR
CONT	CONTINUOUS	PL	PILOT LIGHT
CP	CONTROL PANEL	PMR	PHASE MONITOR RELAY
CPT	CONTROL POWER TRANSFORMER	PNL	PANEL
CR	CONTROL RELAY	PTT	PUSH-TO-TEST
CS	CORD SET	PVC	SCHEDULE 40 POLYVINYL CONDUIT
CU	COEFFICIENT OF UTILIZATION	RECPT	RECEPTACLE
DEB	DIRECT EARTH BURIED	RM	ROOM
EC	EMPTY OR EMBEDDED CONDUIT	RVAT	REDUCED VOLTAGE AUTO-TRANSFORMER STARTER
EF	EXHAUST FAN	S	SECOND
EG	EQUIPMENT GROUND	SA	SURGE ARRESTER
EL	ELEVATION	SDBC	SOFT DRAWN BARE COPPER
EMT	ELECTRICAL METALLIC TUBING	SE	SERVICE ENTRANCE
ETM	ELASPED TIME METER	SHT	SHEET
FA	FIRE ALARM	SN	SOLID NEUTRAL
FAP	FIRE ALARM PANEL	SS	STAINLESS STEEL
FC	FAN COIL	STA	STATION
FLR	FLOOR	SW	SWITCH
FOC	FIBER OPTIC CABLE	TC	TIME CLOCK
FS	FLOAT SWITCH	TEL	TELEPHONE
FT	FEET	TD	TIME DELAY
FVNR	FULL VOLTAGE NON-REVERSING STARTER	TDD	TIME DELAY ON DE-ENERGIZATION
FVR	FULL VOLTAGE REVERSING STARTER	TDE	TIME DELAY ON ENERGIZATION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
GRS	GALVANIZED RIGID STEEL	UG	UNDER GROUND
HOA	HAND-OFF-AUTO	UH	UNIT HEATER
HP	HORSEPOWER OR HEAT PUMP	UP	UNDERGROUND PRIMARY
HR	HOUR	US	UNDERGROUND SECONDARY
JB	JUNCTION BOX	VA	VOLT-AMP
KVA	KILOVOLT-AMPERE	VFD	VARIABLE FREQUENCY DRIVE
KVAR	KILOVOLT-AMPERE, REACTIVE	VM	VOLT-METER
KW	KILOWATT	W	WATT OR WIRE
LA	LIGHTNING ARRESTOR	WH	WEATHER HEAD
L.O.	LUGS ONLY	WM	WATT METER
LV	LOW VOLTAGE	WP	WEATHERPROOF
		W/	WITH
		XMFR	TRANSFORMER

CONTROL SCHEMATIC LEGEND

	WIRING WITHIN PANEL		PRESSURE SWITCH
	WIRING TO FIELD DEVICE		LIMIT SWITCH CONTACT, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY OPEN		LIMIT SWITCH CONTACT, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY CLOSED		LIMIT SWITCH CONTACT, HELD OPEN
	SELECTOR SWITCH, NUMBER OF POSITIONS AND CONTACTS AS SHOWN		LIMIT SWITCH CONTACT, HELD CLOSED
	RELAY CONTACT, NORMALLY OPEN		RELAY COIL, "TR" INDICATES "TIMING RELAY"
	RELAY CONTACT, NORMALLY CLOSED		PILOT LIGHT; "A" INDICATES "AMBER LENS" "G" INDICATES "GREEN LENS" "R" INDICATES "RED LENS"
	TIME DELAY CONTACT, CLOSE ON ENERGIZATION		SOLENOID
	TIME DELAY CONTACT, OPEN ON ENERGIZATION		ELAPSED TIME METER
	TIME DELAY CONTACT, OPEN ON DE-ENERGIZATION		TERMINAL BLOCK
	TIME DELAY CONTACT, CLOSE ON DE-ENERGIZATION		ELECTRICAL CONNECTION
	LEVEL SWITCH		FUSE, AMPERE RATING AS SHOWN OR REQUIRED "BFI" INDICATES "BLOWN FUSE INDICATOR" TYPE
			GROUND CONNECTION TO ENCLOSURE GROUND BAR

PARTITION LEGEND

	NEW UNRATED PARTITION
	NEW / EXISTING 1 HOUR BARRIER

Revisions:	Date:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management	Drawing Title ELECTRICAL LEGEND AND ABBREVIATIONS	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101									
		 FIRE PROTECTION FP&C CONSULTANTS KC, LLC		 SECURITY GRW		 CIVIL ENGINEER HODGES ENGINEERING		 STRUCTURAL ENGINEER BERNHARD TME				 A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001				Building Number							
		1330 BURLINGTON STREET, STE. 200 NORTH KANSAS CITY, MO 64116		801 CORPORATE DRIVE LEXINGTON, KY 40503		231 SHORELINE DRIVE MOUNTAIN HOME, AR 72653		BUILDING 2, 1 ALLIED DRIVE SUITE 260 LITTLE ROCK, AR 72202				501-404-4811 jda@JohnsonDanforth.com JDA PROJECT #: 2018.001		Location FAYETTEVILLE, AR		Drawing Number E101							
								VA		U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		issue Date 2022.05.12		Checked BB		Drawn CD			



GENERAL NOTES

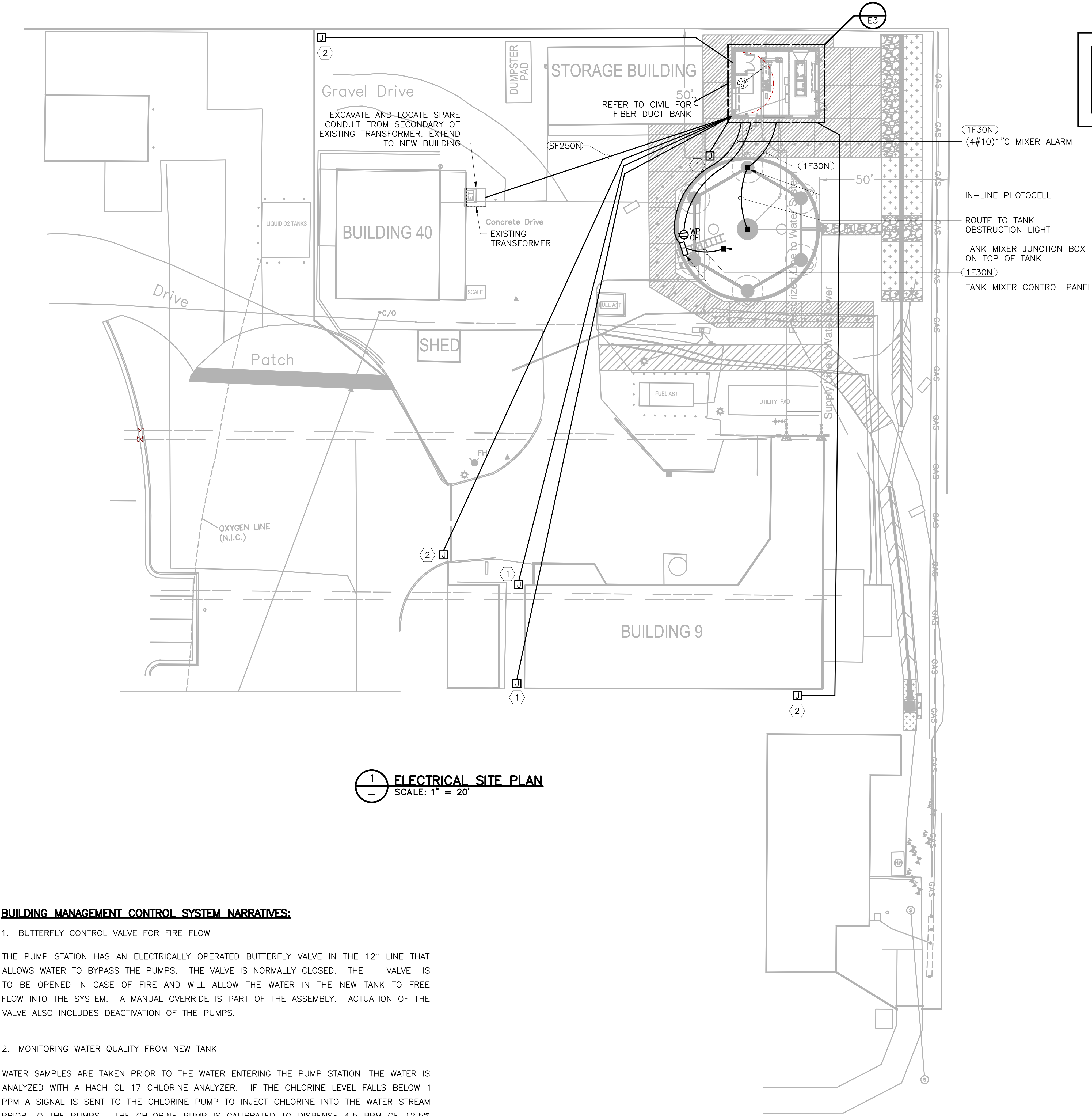
- KEYED NOTES:**
- PEDESTRIAN ACCESS GATE. ROUTE 2(1F20N) AND (1 EMPTY)2"C TO PUMPHOUSE. ROUTE POWER CONDUIT TO PANELBOARD, EMPTY CONDUIT TO SECURITY CLOSET.
 - VEHICLE ACCESS GATE. ROUTE 2(1F20N) AND (1 EMPTY)2"C TO PUMPHOUSE. ROUTE POWER CONDUIT TO PANELBOARD, EMPTY CONDUIT TO SECURITY CLOSET.

SIGNAL SCHEDULE		
TYPE ID	DESCRIPTION	SIGNAL DESCRIPTION
AI	PRESSURE TRANSMITTER	TANK LEVEL
AI	CHLORINE ANALYZER	CHLORINE LEVEL
AI	CHLORINE ANALYZER	CHLORINE LEVEL
AI	PRESSURE TRANSMITTER	LINE PRESSURE
AI	MIXER CONTROL PANEL	MIXER ALARM
DI	AUTOMATIC TRANSFER SWITCH	GENERATOR POWER AVAILABLE
DI	AUTOMATIC TRANSFER SWITCH	UTILITY POWER AVAILABLE
DI	PUMP 1, MOTOR CONTROLLER	PUMP 1, FAILURE
DI	PUMP 1, MOTOR CONTROLLER	PUMP 1, RUNNING
DI	PUMP 2, MOTOR CONTROLLER	PUMP 2, FAILURE
DI	PUMP 2, MOTOR CONTROLLER	PUMP 2, RUNNING
DI	PUMP 3, MOTOR CONTROLLER	PUMP 3, FAILURE
DI	PUMP 3, MOTOR CONTROLLER	PUMP 3, RUNNING
DI	PUMP 4, MOTOR CONTROLLER	PUMP 4, FAILURE
DI	PUMP 4, MOTOR CONTROLLER	PUMP 4, RUNNING
DI	MIXER CONTROL PANEL	MIXER RUNNING
DI	DSCU-1	HVAC STATUS
DI	DSCU-2	HVAC STATUS
DI	DSCU-3	HVAC STATUS
DI	TEMPERATURE SWITCH	ROOM TEMPERATURE
DI	BYPASS VALVE	OPENED
DI	BYPASS VALVE	CLOSED
DO	BYPASS VALVE	OPEN
DO	BYPASS VALVE	CLOSE
DO	CHEM FEEDER	RUNNING
DI	CHEM FEEDER	STEPPED

SHEET NOTES

PARTITION LEGEND

-  NEW UNRATED PARTITION
-  NEW / EXISTING 1 HOUR BARRIER



1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'

BUILDING MANAGEMENT CONTROL SYSTEM NARRATIVES:

1. BUTTERFLY CONTROL VALVE FOR FIRE FLOW

THE PUMP STATION HAS AN ELECTRICALLY OPERATED BUTTERFLY VALVE IN THE 12" LINE THAT ALLOWS WATER TO BYPASS THE PUMPS. THE VALVE IS NORMALLY CLOSED. THE VALVE IS TO BE OPENED IN CASE OF FIRE AND WILL ALLOW THE WATER IN THE NEW TANK TO FREE FLOW INTO THE SYSTEM. A MANUAL OVERRIDE IS PART OF THE ASSEMBLY. ACTUATION OF THE VALVE ALSO INCLUDES DEACTIVATION OF THE PUMPS.


2. MONITORING WATER QUALITY FROM NEW TANK


WATER SAMPLES ARE TAKEN PRIOR TO THE WATER ENTERING THE PUMP STATION. THE WATER IS ANALYZED WITH A HACH CL 17 CHLORINE ANALYZER. IF THE CHLORINE LEVEL FALLS BELOW 1 PPM A SIGNAL IS SENT TO THE CHLORINE PUMP TO INJECT CHLORINE INTO THE WATER STREAM PRIOR TO THE PUMPS. THE CHLORINE PUMP IS CALIBRATED TO DISPENSE 4.5 PPM OF 12.5% SODIUM HYPOCHLORITE. THIS WILL RAISE THE CHLORINE LEVEL 1 (ONE) PPM. WITH THE ADDITION OF THE PROGRAMMABLE LOGIC CONTROLLER (PLC) THE FEED RATES ARE ADJUSTABLE. A SECOND WATER SAMPLING POINT IS LOCATED ON THE DISCHARGE SIDE OF THE PUMP STATION. THIS SAMPLE POINT WILL MEASURE CHLORINE LEVELS AND SEND THE RESULTS TO THE PLC. THE PLC WILL ANALYZE THE DATA AND ADJUST THE CHLORINE PUMP OUTPUT TO MAINTAIN THE CHLORINE RESIDUAL NOT TO EXCEED 2 PPM.

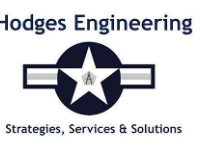
Revisions:


Date:

CONSULTANTS

**FPC**
CONSULTANTS

**SECURITY**
GRW

**CIVIL ENGINEER**
HODGES ENGINEERING

**STRUCTURAL ENGINEER**
BERNHARD TME

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231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653

BUILDING 2, 1 ALLIED DRIVE
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ARCHITECT/ENGINEER OF RECORD


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JDA PROJECT #: 2018.001

STAMP



Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

ELECTRICAL
PUMP STATION SITE PLAN

Approved: Project Director

Phase

CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW WATER STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.05.12

Checked
BB

Drawn
CD

Project Number

564-19-101

Building Number

Drawing Number

E102

GENERAL NOTES

SHEET NOTES

PARTITION LEGEND

- NEW UNRATED PARTITION
- NEW / EXISTING 1 HOUR BARRIER

1 PUMP STATION LIGHTING PLAN
SCALE: 3/8" = 1'-0"

2 PUMP STATION POWER PLAN
SCALE: 3/8" = 1'-0"

3 PUMP STATION CONTROL PLAN
SCALE: 3/8" = 1'-0"

3 PUMP STATION GROUNDING PLAN
SCALE: 3/8" = 1'-0"

CONSULTANTS



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CIVIL ENGINEER
HODGES ENGINEERING
231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653



STRUCTURAL ENGINEER
BERNHARD TME
BUILDING 2, 1 ALLIED DRIVE
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ARCHITECT/ENGINEER OF RECORD

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JDA PROJECT #: 2018.001



STAMP



Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title
ELECTRICAL
PUMP STATION PLAN

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.05.12

Checked
BB

Drawn
CD

Project Number
564-19-101
Building Number

Drawing Number

E103

GENERAL NOTES

PANELBOARD SCHEDULE											
PANEL	PP	VOLTS	480Y/277 3PH, 4W			MAIN	250A MCB		INTERRUPT RATING		65,000
DESCRIPTION	BKR	NO.	A	B	C	A	B	C	NO.	BKR	DESCRIPTION
SURGE PROTECTIVE DEVICE	60A/3P	1	0.000			0.000			2		
SURGE PROTECTIVE DEVICE	—	3		0.000			0.000		4		
SURGE PROTECTIVE DEVICE	—	5			0.000			0.000	6		
PUMP CONTROL PANEL	50A/3P	7	8.400			0.000			8		
PUMP CONTROL PANEL	—	9		8.400			0.000		10		
PUMP CONTROL PANEL	—	11			8.400			0.000	12		
TRANSFORMER "LP"	60A/3P	13	10.000			0.000			14		
TRANSFORMER "LP"	—	15		10.000			0.000		16		
TRANSFORMER "LP"	—	17			10.000			0.000	18		
BYPASS VALVE	20A/3P	19	0.300			0.000			20		
BYPASS VALVE	—	21		0.300			0.000		22		
BYPASS VALVE	—	23			0.300			0.000	24		
		25	0.000			0.000			26		
		27		0.000			0.000		28		
		29			0.000			0.000	30		
		31	0.000			0.000			32		
		33		0.000			0.000		34		
		35			0.000			0.000	36		
		37	0.000			0.000			38		
		39		0.000			0.000		40		
		41			0.000			0.000	42		
			18.7000	18.7000	18.7000	0.0000	0.0000	0.0000			
			18.7000	18.7000	18.7000	TOTAL CONNECTED KVA					
			56.1000								
			87.6562			DESIGN KVA					
			105.437175			DESIGN AMPS			480		

GENERATOR LOADING SCHEDULE:

- (3) 5HP VFD'S
(1) 25KVA MISC. LOAD
DESIGN BASIS — KOHLER

TRANSFER SEQUENCE:

OPEN LOSS OF POWER ATS SHALL TRANSFER 100% OFF ALL LOADS AND SYSTEMS TO GENERATOR POWER

PANELBOARD SCHEDULE											
PANEL	LP	VOLTS	208Y/120 3PH, 4W			MAIN	150A MCB		INTERRUPT RATING		10,000
DESCRIPTION	BKR	NO.	A	B	C	A	B	C	NO.	BKR	DESCRIPTION
SURGE PROTECTIVE DEVICE	60A/3P	1	0.000			1.500			2	20A/2P	GENERATOR BLOCK HEATER
SURGE PROTECTIVE DEVICE	—	3		0.000			1.500		4	—	GENERATOR BLOCK HEATER
SURGE PROTECTIVE DEVICE	—	5			0.000			0.500	6	20A/1P	BATTERY CHARGER
INTERIOR LIGHTING	20A/1P	7	0.500			0.500			8	20A/1P	PEDESTRIAN GATE
EXTERIOR LIGHTING	20A/1P	9		0.500			0.500		10	20A/1P	PEDESTRIAN GATE
GEN ROOM LIGHTING	20A/1P	11			0.250			1.000	12	20A/2P	VEHICLE GATE
SERVER RECEPT	20A/1P	13	1.000			1.000			14	20A/2P	VEHICLE GATE
SERVER RECEPT	20A/1P	15		1.000			1.000		16	20A/2P	VEHICLE GATE
SERVER RECEPT	20A/1P	17			1.000			1.000	18	20A/2P	VEHICLE GATE
SERVER RECEPT	20A/1P	19	1.000			0.500			20	20A/1P	CL ANALYZER
* PUMP ROOM RECEPT	20A/1P	21		1.000			0.500		22	20A/1P	CL ANALYZER
* PUMP ROOM RECEPT	20A/1P	23			1.000			1.500	24	20A/1P	TANK MIXER
* PUMP ROOM RECEPT	20A/1P	25	1.000			0.500			26	20A/1P	CHLORINE FEEDER
FLOW METER	20A/1P	27		0.500			1.000		28	20A/1P	EX FAN
DAMPER CONTROL PANEL	20A/1P	29			0.500			0.000	30	20A/1P	FACP STROBE
HVAC 1	30A/2P	31	1.500			0.050			32	20A/1P	POE INJECTOR
HVAC 1	—	33		1.500			0.050		34	20A/1P	POE INJECTOR
HVAC 2	35A/2P	35			1.500			0.050	36	20A/1P	POE INJECTOR
HVAC 2	—	37	1.500			0.050			38	20A/1P	POE INJECTOR
HVAC 3	35A/2P	39		1.500			0.050		40	20A/1P	POE INJECTOR
HVAC 3	—	41			1.500			0.050	42	20A/1P	POE INJECTOR
* GFCI BREAKER			6.5000	6.0000	5.7500	4.1000	4.6000	4.1000	** PROVIDE 56 CIRCUIT PANEL		
			10.6000	10.6000	9.8500	TOTAL CONNECTED KVA					
			31.0500								
			48.5156			DESIGN KVA					
			58.356939			DESIGN AMPS			480		

SHEET NOTES

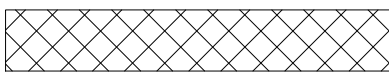
FEEDER SCHEDULE					
FEEDER DESIGNATION	AMPERE RATING	CONDUCTOR SIZE		CONDUIT	
		PH	GND	NO. RUNS	SIZE
F20	20	12	12	1	1"
F30	30	10	10	1	1"
F40	40	8	10	1	1-1/4"
F50	50	6	10	1	1-1/4"
F60	60	6	10	1	1-1/4"
F70	70	4	8	1	1-1/2"
F80	80	4	8	1	1-1/2"
F90	90	2	8	1	2"
F100	100	2	8	1	2"
F110	110	2	6	1	2"
F125	125	1/0	6	1	2-1/2"
F150	150	1/0	6	1	2-1/2"
F175	175	2/0	6	1	2-1/2"
F200	200	3/0	6	1	3"
F225	225	4/0	4	1	3"
F250	250	250	4	1	4"
F300	300	350	4	1	4"
F350	350	500	2	1	4"
F400	400	500	1/0	1	4"
F450	450	4/0	2	2	3"
F500	500	250	2	2	4"
F600	600	350	1/0	2	4"
F700	700	500	1/0	2	4"
F800	800	500	1/0	2	4"
F1000	1000	500	2/0	3	4"
F1200	1200	350	3/0	4	4"
F1600	1600	500	4/0	5	4"
F2000	2000	500	250	6	4"
F2500	2500	500	350	7	4"
F3000	3000	500	500	8	4"
F4000	4000	500	500	11	4"

FEEDER SCHEDULE NOTES:

- "H" SUFFIX INDICATES THAT FEEDER IS TO BE USED ON A 480 VOLT CIRCUIT.
- "L" SUFFIX INDICATES THAT FEEDER IS TO BE USED ON 208/240 VOLT CIRCUIT.
- "N" SUFFIX INDICATES THAT FEEDER CONTAINS A FULL SIZE NEUTRAL CONDUCTOR, OTHERWISE PROVIDE ONLY PHASE AND GROUND CONDUCTORS.
- "1" PREFIX INDICATES A SINGLE PHASE FEEDER (LINE-TO-LINE). OTHERWISE ASSUME 3-PHASE FEEDER.
- "S" PREFIX INDICATES A SERVICE FEEDER CONSISTING OF PHASE CONDUCTORS PLUS A FULL SIZE GROUNDED SERVICE CONDUCTOR (NEUTRAL).
- "CO" MEANS PROVIDE CONDUIT ONLY FOR THAT FEEDER SIZE.

LIGHT FIXTURE SCHEDULE							
ID	TYPE	MANUFACTURER	MODEL	LAMP TYPE	VOLTAGE	WATTS	NOTE
A	EXTERIOR WALL PACK, LED	HUBBELL	PGM3-180L-4K-U-DB-X	LED	120-277	72	—
B	INTERIOR 4" NON-METALLIC STRIP, LED	AZZ/RIG-A-LITE	CHL-11L-C4U	LED	120-277	40	9884LU, EL INDICATES BATT/EMERGENCY EGRESS
C	CROUSE HINDS	ISOLITE	DCL-RU-BA-BA-MTEBP	LED	120	2W	CHAIN HUNG AT 12'
X1	EXIT SIGN	43961-116-GR	L-810 (L) DOUBLE OBSTRUCTION LIGHT	(2) 30W LED	120V	30W	1" CONDUIT HUB. LED WITH INTERNAL HEATER
							ABOVE DOOR

PARTITION LEGEND



NEW UNRATED PARTITION



NEW / EXISTING 1 HOUR BARRIER

Revisions:
Date:

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CIVIL ENGINEER
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231 SHORELINE DRIVE
MOUNTAIN HOME, AR 72653

STRUCTURAL ENGINEER
BERNHARD TME
BUILDING 2, 1 ALLIED DRIVE
SUITE 260
LITTLE ROCK, AR 72202

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JDA PROJECT #: 2018.001

STAMP
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL ONE-LINE AND SCHEDULES
Approved: Project Director

Phase
CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.05.12

Checked
BB

Drawn
CD

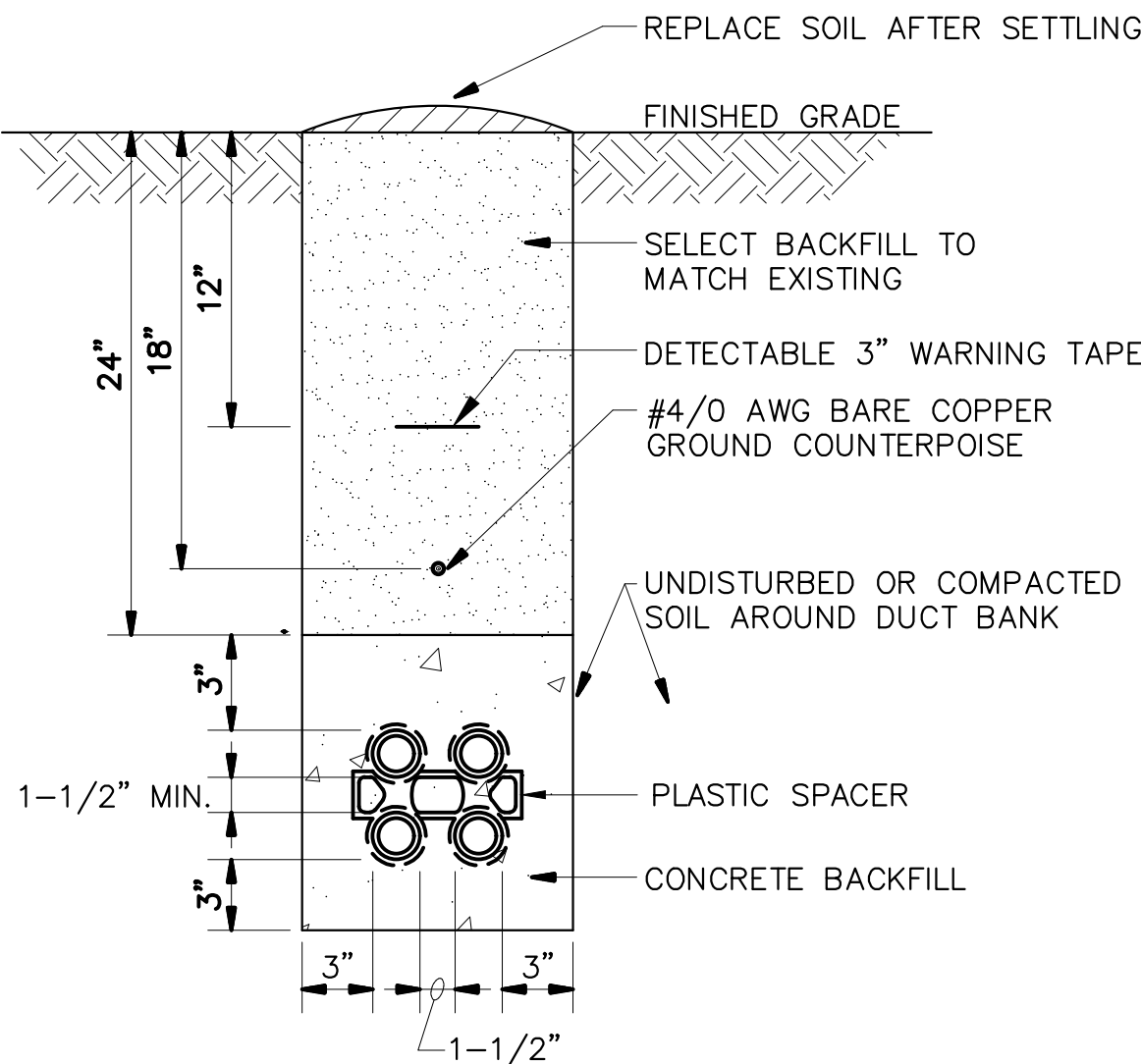
Project Number
564-19-101
Building Number

Drawing Number
E104

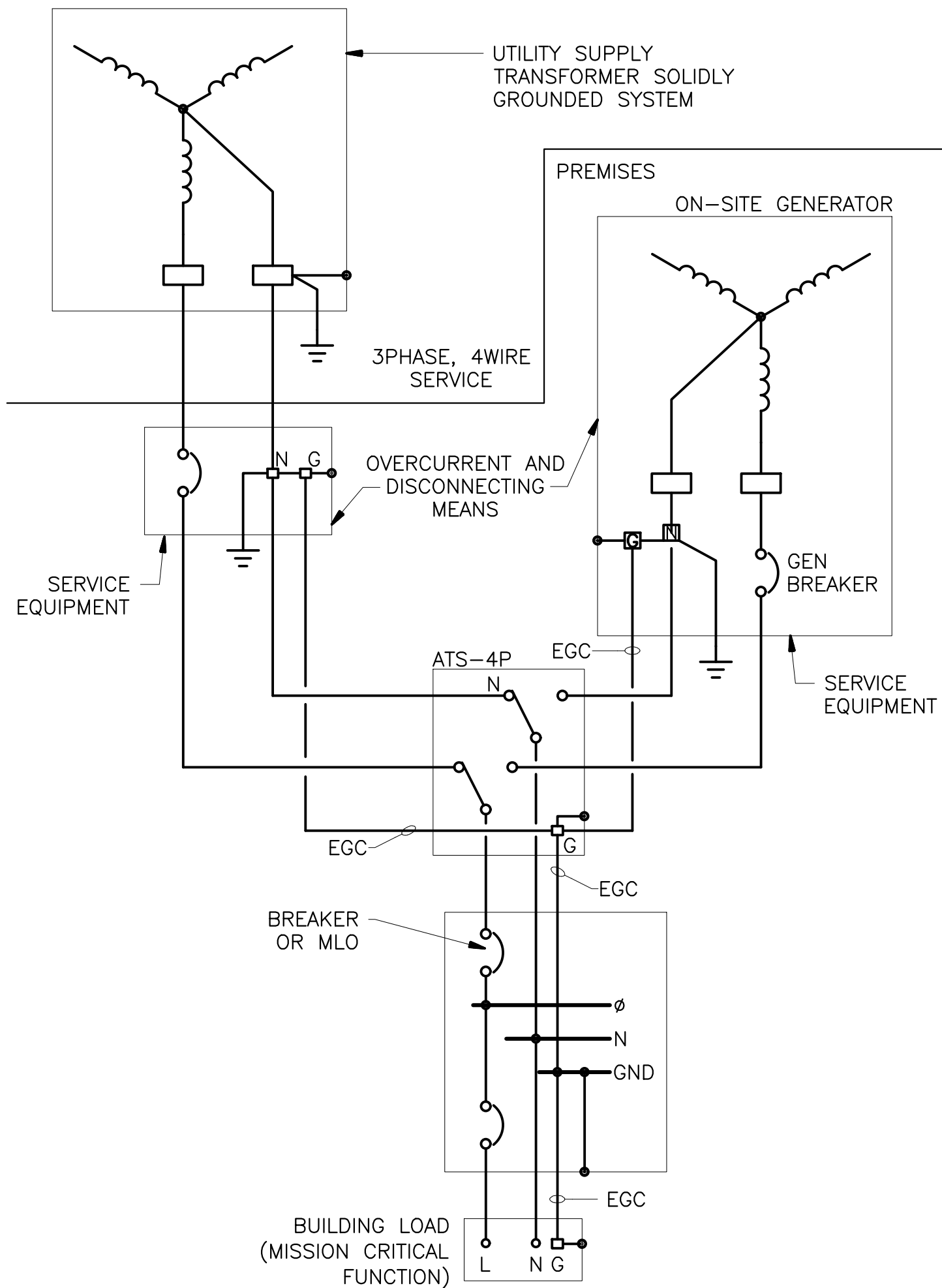
GENERAL NOTES

ELECTRICAL DUCT NOTES:

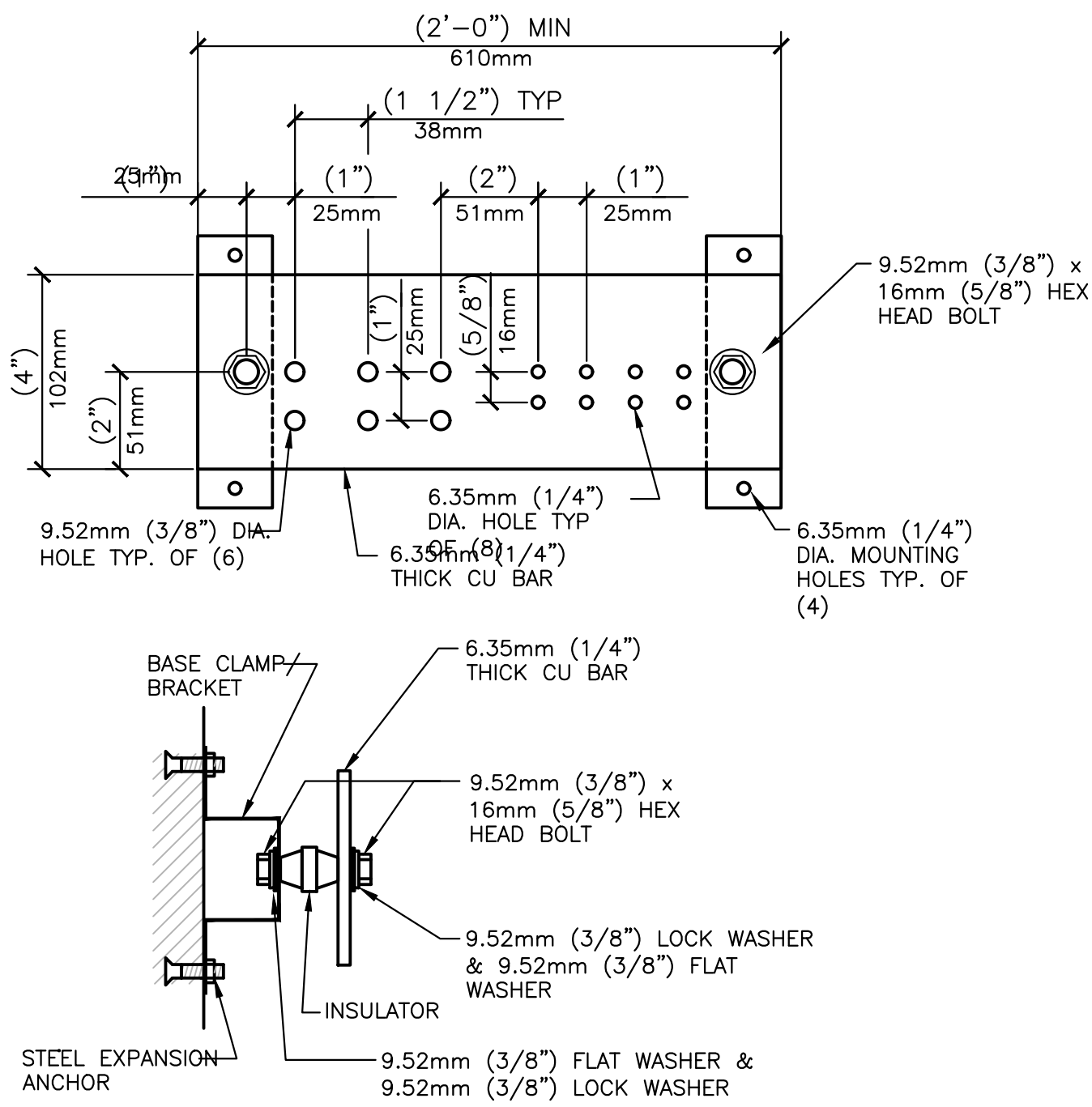
- CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES.
- CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.
- SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE DUCT BANK SCHEDULE FOR QUANTITY AND SIZES.
- INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING (TYPICAL ALL DUCTS).
- OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT RUNS SHALL BE PVC COATED GALVANIZED RIGID STEEL CONDUIT.
- NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT, PVC SHALL CONVERT TO PVC COATED GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE.
- INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT OR CONNECT TO GROUND RING.
- INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS.
- MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
- MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".
- MINIMUM COVER REQUIREMENTS FOR ELECTRICAL PRIMARY SERVICE DUCT BANKS SHALL BE 36".
- CONCRETE SHALL BE 2000P.S.I. @ 28 DAYS, OR AS SPECIFIED.
- PROVIDE #4 REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.



TRENCH DETAIL
SCALE: NONE



GROUNDING DIAGRAM 4 POLE
SCALE: NONE



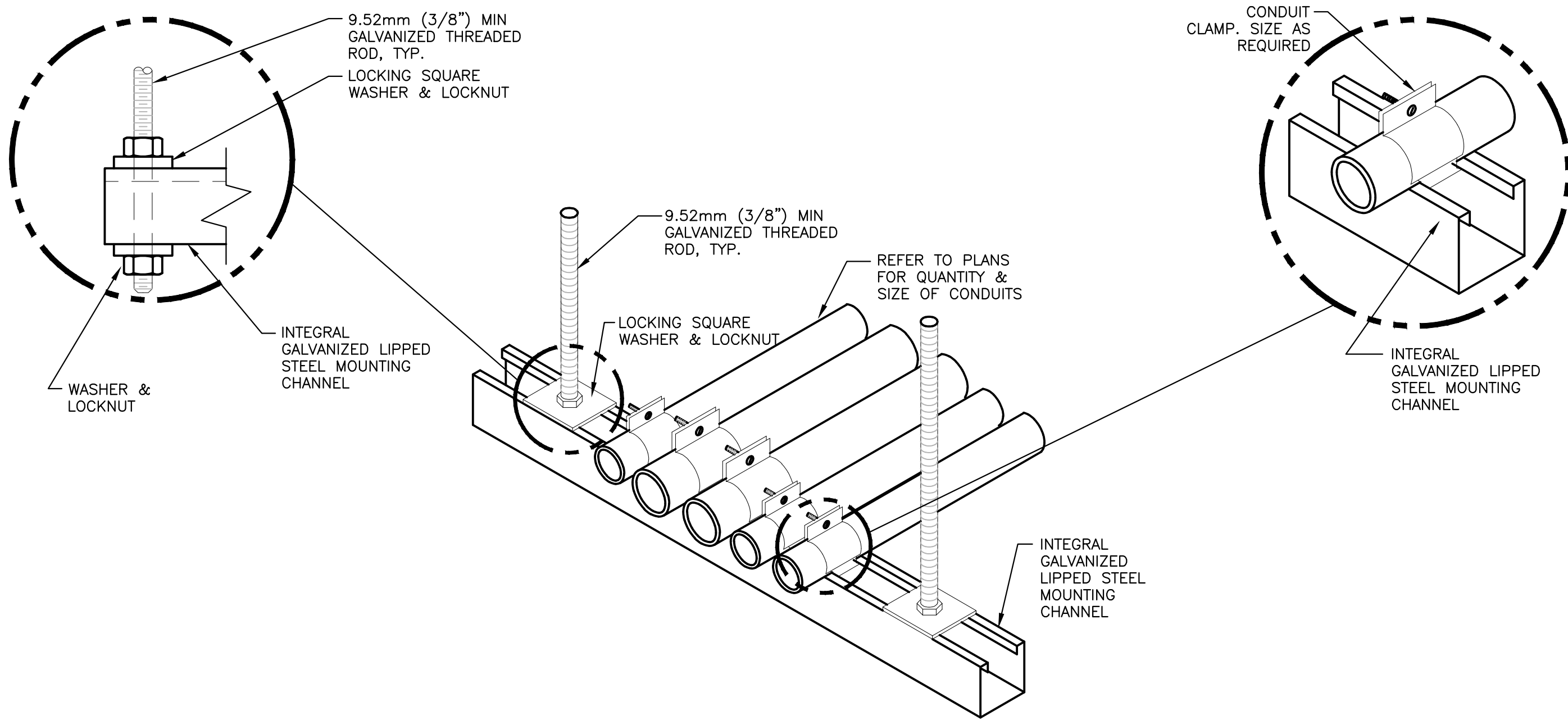
- GENERAL NOTES:
- ALL HARDWARE SHALL BE STAINLESS STEEL.
 - PROVIDE 1 MOUNTING POINT PER 305mm (12") OF BAR LENGTH.
 - HOLES MAY BE ADDED IF REQUIRED.

GROUNDING BAR DETAIL
SCALE: NONE

SHEET NOTES

PARTITION LEGEND

- NEW UNRATED PARTITION
- NEW / EXISTING 1 HOUR BARRIER



- GENERAL NOTES:
- INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 915mm (36") SHALL BE INSTALLED WITH A CENTER SUPPORT ROD. SUPPORT RODS SHALL NOT BE GREATER THAN 457mm (18") APART.
 - FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
 - FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

CONDUIT TRAPEZE MOUNTING DETAIL
SCALE: NONE

CONSULTANTS

FPC
CONSULTANTS
FIRE PROTECTION
FP&C CONSULTANTS KC, LLC

SECURITY
GRW

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BUILDING 2, 1 ALLIED DRIVE
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REGISTERED PROFESSIONAL ENGINEER
No. 10206
BRUCE W. BROWN

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL DETAILS

Approved: Project Director

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.05.12

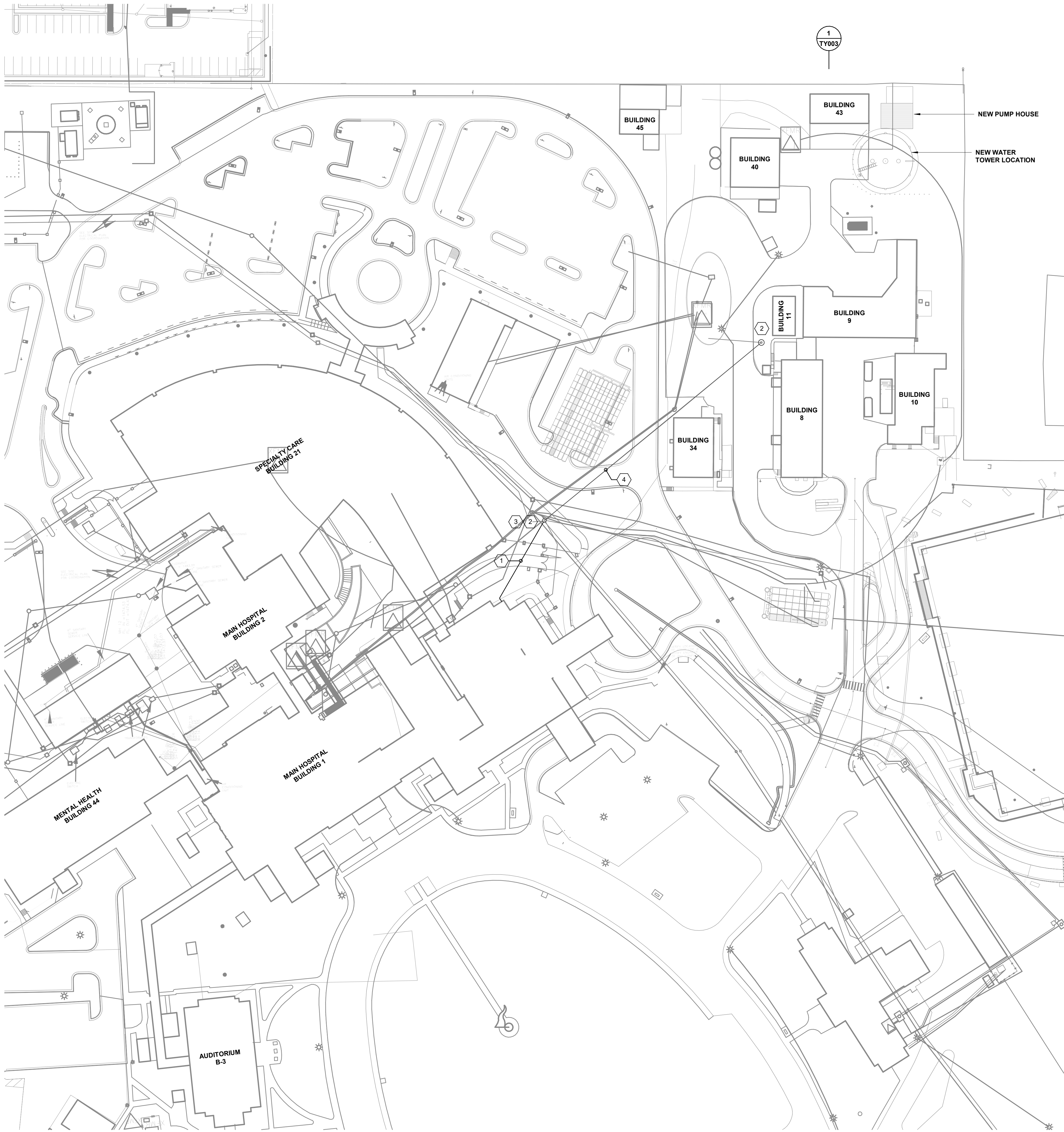
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Project Number
564-19-101

Drawing Number
E105

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GENERAL NOTES:

1. LOCATE ALL EXISTING UNDERGROUND UTILITIES FOR ALL UNDERGROUND WORK PRIOR TO EXCAVATION OR TRENCHING. HAND DIG WITHIN 10' OF UTILITY OF CROSSING WITH NEW WORK.
2. MINIMUM BURY FOR ALL SITE CONDUITS SHALL BE 24", UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR ALL SITE TRENCHING AND BACKFILL.
3. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. REFER TO SHEET TY503 FOR DUCT BANK DETAILS.
5. REFER TO SHEET TY602 FOR SSTV RISER DIAGRAM.

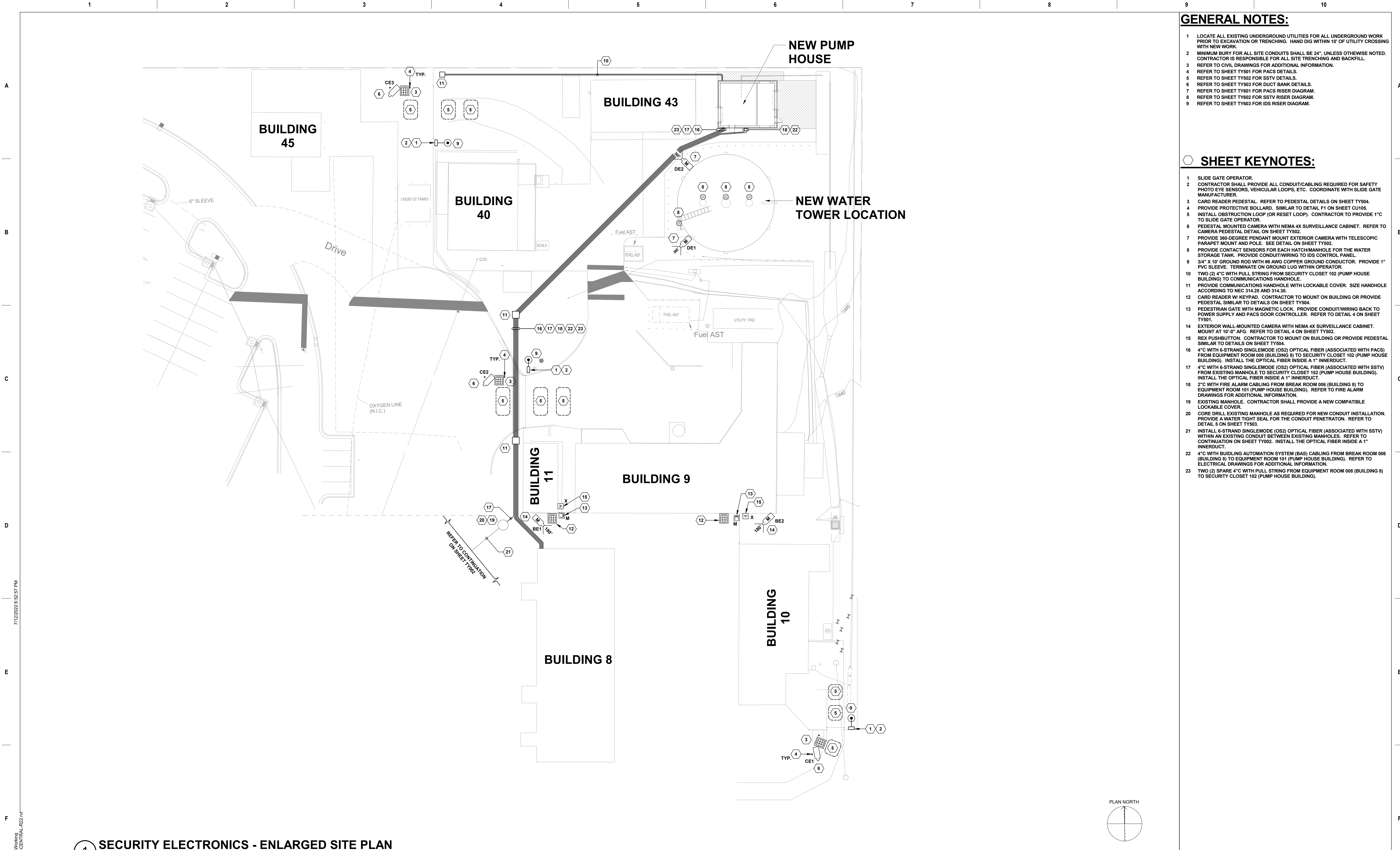
SHEET KEYNOTES:

1. 4" C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSTV) FROM SPECIAL SYSTEMS DATA ROOM 147 (BUILDING 1) TO EXISTING MANHOLE. REFER TO SHEET TY201 FOR CONTINUATION. INSTALL OPTICAL FIBER INSIDE A 1" INNERDUCT.
2. EXISTING MANHOLE. CONTRACTOR SHALL PROVIDE A NEW COMPATIBLE LOCKABLE COVER.
3. CORE DRILL EXISTING MANHOLE AS REQUIRED FOR NEW CONDUIT INSTALLATION. PROVIDE A WATER TIGHT SEAL FOR THE CONDUIT PENETRATION. REFER TO DETAIL 5 ON SHEET TY503.
4. INSTALL 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSTV) WITHIN AN EXISTING CONDUIT BETWEEN THE TWO (2) EXISTING MANHOLES. REFER TO CONTINUATION ON SHEET TY003. INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.

1 SECURITY ELECTRONICS - SITE PLAN
SCALE: 1" = 50'

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Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title SECURITY ELECTRONICS SITE PLAN	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101
	FPC CONSULTANTS FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 Burlington Street, Ste. 200 North Kansas City, MO 64116	GRW SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503	Insight ENGINEERING MEP ENGINEER INSIGHT ENGINEERING, PLLC 201 S. CHESTER, SUITE B LITTLE ROCK, AR 72201	Bernhard TME Engineering STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 260 LITTLE ROCK, AR 72202	A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@johnsondanforth.com JDA PROJECT #: 2018.001	JD a		Approved: Project Director	FULLY SPRINKLERED	Location FAYETTEVILLE, AR	Drawing Number TY002	Building Number



GENERAL NOTES:

- 1 LOCATE ALL EXISTING UNDERGROUND UTILITIES FOR ALL UNDERGROUND WORK PRIOR TO EXCAVATION OR TRENCHING. HAND DIG WITHIN 10' OF UTILITY CROSSING WITH NEW WORK.
- 2 MINIMUM BURY FOR ALL SITE CONDUITS SHALL BE 24", UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR ALL SITE TRENCHING AND BACKFILL.
- 3 REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- 4 REFER TO SHEET TY601 FOR PACS DETAILS.
- 5 REFER TO SHEET TY602 FOR SSV DETAILS.
- 6 REFER TO SHEET TY603 FOR DUCT BANK DETAILS.
- 7 REFER TO SHEET TY601 FOR PACS RISER DIAGRAM.
- 8 REFER TO SHEET TY602 FOR SSV RISER DIAGRAM.
- 9 REFER TO SHEET TY603 FOR IDS RISER DIAGRAM.

SHEET KEYNOTES:

- 1 SLIDE GATE OPERATOR.
- 2 CONTRACTOR SHALL PROVIDE ALL CONDUIT/CABLING REQUIRED FOR SAFETY PHOTO EYE SENSORS, VEHICULAR LOOPS, ETC. COORDINATE WITH SLIDE GATE MANUFACTURER.
- 3 CARD READER PEDESTAL. REFER TO PEDESTAL DETAILS ON SHEET TY504.
- 4 PROVIDE PROTECTIVE BOLLARD. SIMILAR TO DETAIL F1 ON SHEET CU105.
- 5 INSTALL OBSTRUCTION LOOP (OR RESET LOOP). CONTRACTOR TO PROVIDE 1" PVC SLEEVE. TERMINATE ON GROUND LUG WITHIN OPERATOR.
- 6 PEDESTAL MOUNTED CAMERA WITH NEMA 4X SURVEILLANCE CABINET. REFER TO CAMERA PEDESTAL DETAIL ON SHEET TY502.
- 7 PROVIDE 360-DEGREE PENDANT MOUNT EXTERIOR CAMERA WITH TELESCOPIC PARAPET MOUNT AND POLE. SEE DETAIL ON SHEET TY502.
- 8 PROVIDE CONTACT SENSORS FOR EACH HATCH/MANHOLE FOR THE WATER STORAGE TANK. PROVIDE CONDUIT/WIRING TO IDS CONTROL PANEL.
- 9 3/4" X 10' GROUND ROD WITH #6 AWG COPPER GROUND CONDUCTOR. PROVIDE 1" PVC SLEEVE. TERMINATE ON GROUND LUG WITHIN OPERATOR.
- 10 TWO (2) 4" C WITH PULL STRING FROM SECURITY CLOSET 102 (PUMP HOUSE BUILDING) TO COMMUNICATIONS HANDHOLE.
- 11 PROVIDE COMMUNICATIONS HANDHOLE WITH LOCKABLE COVER. SIZE HANDHOLE ACCORDING TO NEC 314.23 AND 314.30.
- 12 CARD READER W/ KEYPAD. CONTRACTOR TO MOUNT ON BUILDING OR PROVIDE PEDESTAL SIMILAR TO DETAILS ON SHEET TY504.
- 13 PEDESTRIAN GATE WITH MAGNETIC LOCK. PROVIDE CONDUIT/WIRING BACK TO POWER SUPPLY AND PACS DOOR CONTROLLER. REFER TO DETAIL 4 ON SHEET TY501.
- 14 EXTERIOR WALL-MOUNTED CAMERA WITH NEMA 4X SURVEILLANCE CABINET. MOUNT AT 10'-0" A.F.G. REFER TO DETAIL 4 ON SHEET TY502.
- 15 REX PUSHBUTTON. CONTRACTOR TO MOUNT ON BUILDING OR PROVIDE PEDESTAL SIMILAR TO DETAILS ON SHEET TY504.
- 16 4" C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH PACS) FROM EQUIPMENT ROOM 008 (BUILDING 8) TO SECURITY CLOSET 102 (PUMP HOUSE BUILDING). INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 17 4" C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSV) FROM EXISTING MANHOLE TO SECURITY CLOSET 102 (PUMP HOUSE BUILDING). INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 18 2" C WITH FIRE ALARM CABLING FROM BREAK ROOM 006 (BUILDING 8) TO EQUIPMENT ROOM 101 (PUMP HOUSE BUILDING). REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
- 19 EXISTING MANHOLE. CONTRACTOR SHALL PROVIDE A NEW COMPATIBLE LOCKABLE COVER.
- 20 CORE DRILL EXISTING MANHOLE AS REQUIRED FOR NEW CONDUIT INSTALLATION. PROVIDE A WATER TIGHT SEAL FOR THE CONDUIT PENETRATON. REFER TO DETAIL 5 ON SHEET TY503.
- 21 INSTALL 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSV) WITHIN AN EXISTING CONDUIT BETWEEN EXISTING MANHOLES. REFER TO CONTINUATION ON SHEET TY002. INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 22 4" C WITH BUILDING AUTOMATION SYSTEM (BAS) CABLING FROM BREAK ROOM 006 (BUILDING 8) TO EQUIPMENT ROOM 101 (PUMP HOUSE BUILDING). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 23 TWO (2) SPARE 4" C WITH PULL STRING FROM EQUIPMENT ROOM 008 (BUILDING 8) TO SECURITY CLOSET 102 (PUMP HOUSE BUILDING).

1 SECURITY ELECTRONICS - ENLARGED SITE PLAN
1" = 20'-0"

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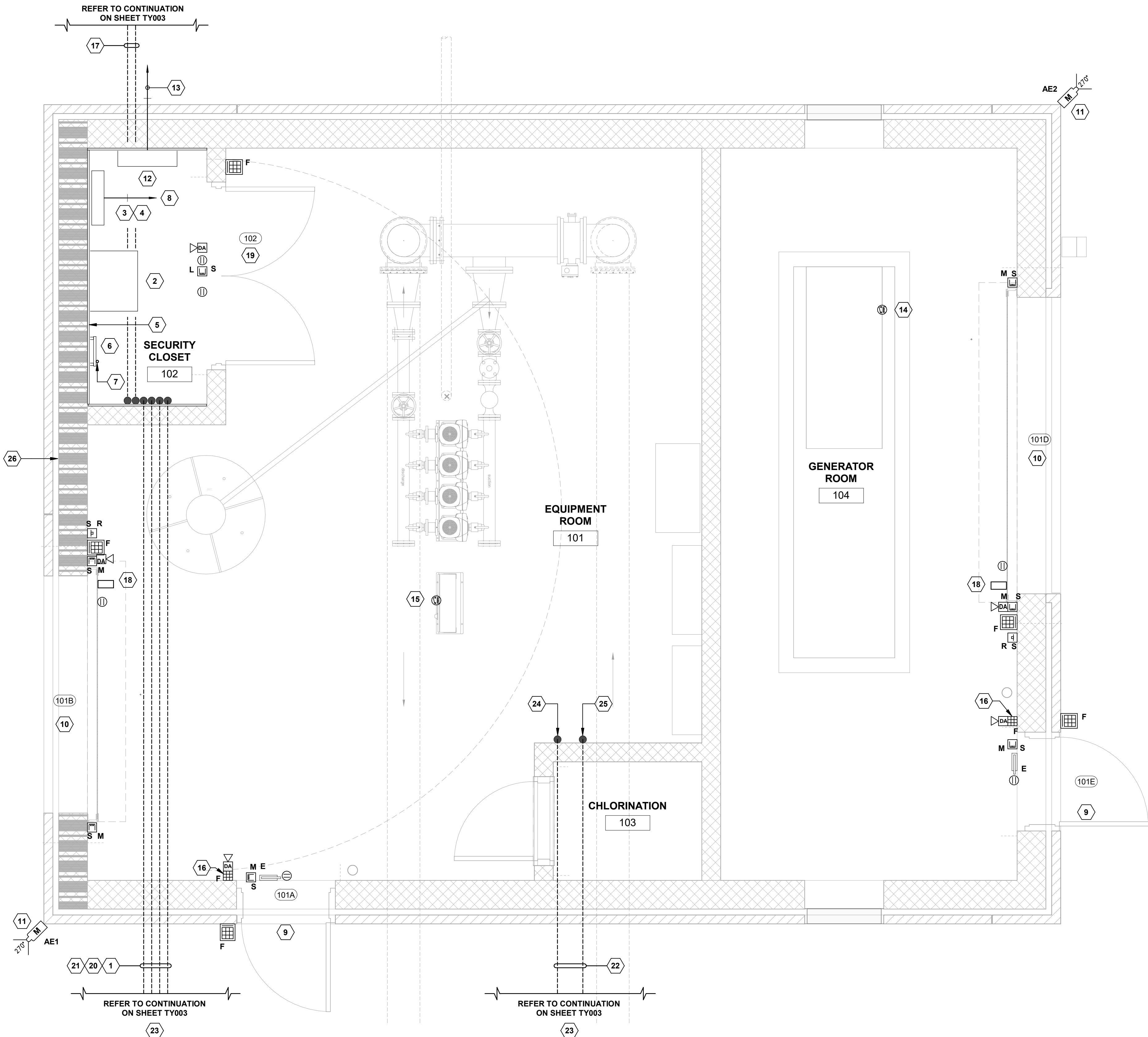
Revisions:	CONSULTANTS				ARCHITECT/ENGINEER OF RECORD				STAMP	Office of Construction and Facilities Management	Drawing Title SECURITY ELECTRONICS ENLARGED SITE PLAN	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT NEW WATER STORAGE FACILITY	Project Number 564-19-101	
	<div><div>FPC CONSULTANTS FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 Burlington Street, Ste. 200 North Kansas City, MO 64116</div><div> engineering • architecture • geospatial SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503</div><div> MEP ENGINEER INSIGHT ENGINEERING, PLLC 201 S. CHESTER, SUITE B LITTLE ROCK, AR 72201</div><div> STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 260 LITTLE ROCK, AR 72202</div></div>				<div><div>JD a A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@JohnsonDanforth.com LJDA PROJECT #: 2018.001</div><div></div></div>				<div> PATRICK BAUSEN BICSI ID# 363075 2022-07-15 # 40992</div>		VA U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED	Location FAYETTEVILLE, AR	Drawing Number TY003
	Date:				Issue Date 2022.07.15	Checked PJB	Drawn PJB								

GENERAL NOTES:

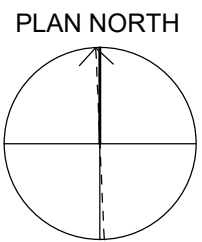
- 1 ALL SECURITY ELECTRONICS CABLING SHALL BE INSTALLED IN CONDUIT.
- 2 REFER TO SHEET TY501 FOR PACS DETAILS.
- 3 REFER TO SHEET TY502 FOR SSTV DETAILS.
- 4 REFER TO SHEET TY601 FOR PACS RISER DIAGRAM.
- 5 REFER TO SHEET TY602 FOR SSTV RISER DIAGRAM.
- 6 REFER TO SHEET TY603 FOR IDS RISER DIGRAM.
- 7 REFER TO SHEET TY603 FOR THE SECURITY LAN FUNCTIONAL SCHEMATIC.
- 8 COORDINATE WITH DOOR HARDWARE INSTALLER FOR ALL REQUIRED ACCESS CONTROL CONNECTIONS AND ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES:

- 1 4"C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH PACS) FROM EQUIPMENT ROOM 008 IN BUILDING 8 TO SECURITY CLOSET 102. INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 2 SECURITY ELECTRONICS EQUIPMENT RACK. REFER TO SECURITY LAN FUNCTIONAL SCHEMATIC ON SHEET TY603 FOR ADDITIONAL INFORMATION.
- 3 PHYSICAL ACCESS CONTROL SYSTEM (PACS) DOOR CONTROLLER. REFER TO PACS RISER DIAGRAM ON SHEET TY001 AND SPECIFICATION SECTION 281300.
- 4 POWER SUPPLIES FOR THE PACS DOOR CONTROLLER AND ASSOCIATED MAGNETIC LOCKS.
- 5 3/4" PLYWOOD TREATED WITH FLAME RETARDANT / NONCONDUCTIVE PAINT (DO NOT COVER FIRE STAMP). INSTALL PLYWOOD FROM 6" TO 8'-4" AFF. PROVIDE ON ALL WALLS.
- 6 TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). IN ADDITION, PROVIDE #1/0 AWG FROM THE TGB TO EQUIPMENT RACK AND PROVIDE #6 AWG BONDING JUMPER FROM THE EQUIPMENT RACK TO EACH METALLIC ENCLOSURE, RACEWAY, ETC. REFER TO TELECOMMUNICATION GROUNDING DETAIL ON SHEET TY504.
- 7 PROVIDE #10 AWG BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) IN 1" CONDUIT FROM TGB TO THE GROUNDING ELECTRODE CONDUCTOR (GEC). REFER TO ELECTRICAL DRAWING FOR GEC INFORMATION.
- 8 PROVIDE CAT 6A UTP, 1"C FROM PACS DOOR CONTROLLER TO DEDICATED PACS PATCH PANEL IN THE SECURITY ELECTRONICS EQUIPMENT RACK.
- 9 SINGLE DOOR WITH MAGNETIC LOCK. PROVIDE CONDUIT/WIRING BACK TO POWER SUPPLY AND PACS DOOR CONTROLLER. REFER TO DETAIL 1 ON SHEET TY501.
- 10 OVERHEAD DOOR WITH MAGNETIC LOCK. PROVIDE CONDUIT/WIRING BACK TO THE POWER SUPPLY AND PACS DOOR CONTROLLER. REFER TO DETAIL 3 ON SHEET TY501.
- 11 EXTERIOR/CORNER MOUNTED 270-DEG PANORAMIC CAMERA. MOUNT ON WALL AS HIGH AS POSSIBLE. REFER TO DETAIL 1 ON SHEET TY502.
- 12 INTRUSION DETECTION SYSTEM (IDS) CONTROL PANEL. REFER TO IDS RISER DIAGRAM ON SHEET TY003 AND SPECIFICATION SECTION 281600.
- 13 PROVIDE CAT5A UTP, 1"C FROM INTRUSION DETECTION CONTROL PANEL TO PATCH PANEL IN THE SECURITY ELECTRONICS EQUIPMENT RACK.
- 14 PROVIDE CONNECTION (GENERATOR FAULT COMMON ALARM) FROM GENERATOR CONTROLLER TO IDS CONTROL PANEL.
- 15 PROVIDE CONNECTION (PUMP FAULT COMMON ALARM) FROM PUMP CONTROL PANEL TO IDS CONTROL PANEL.
- 16 IDS - KEY PAD. MOUNT AT 48" AFF TO CENTERLINE.
- 17 TWO (2) 4"C WITH PULL STRING FROM SECURITY CLOSET 102 (PUMP HOUSE BUILDING) TO COMMUNICATIONS HANDHOLE (SHEET TY003).
- 18 OVERHEAD DOOR CONTROLLER. COORDINATE LOCATION WITH OVERHEAD DOOR PROVIDER.
- 19 DOUBLE DOOR WITH ELECTRIFIED LOCKSET. PROVIDE CONDUIT/WIRING BACK TO POWER SUPPLY AND PACS DOOR CONTROLLER. REFER TO DETAIL 2 ON SHEET TY501.
- 20 4"C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSTV) FROM DATA ROOM 147 IN BUILDING 1 TO SECURITY CLOSET 102. INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 21 TWO (2) SPARE 4"C WITH PULL STRING FROM EQUIPMENT ROOM 008 IN BUILDING 8 TO SECURITY CLOSET 102.
- 22 2"C WITH FIRE ALARM CABLING FROM BREAK ROOM 006 IN BUILDING 8 TO LOCATION SHOWN. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
- 23 COORDINATE ROUTING OF CONDUIT WITH INCOMING 6" FIRE SERVICE MAIN.
- 24 STUB UP LOCATION FOR FIRE ALARM CONDUIT.
- 25 STUB UP LOCATION FOR BAS CONDUIT.
- 26 WEST WALL HAS A 1-HOUR FIRE BARRIER.



1 SECURITY ELECTRONICS - PUMP HOUSE FLOOR PLAN
1/2" = 1'-0"



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Management



U.S. Department
of Veterans Affairs

Drawing Title
**SECURITY ELECTRONICS
PUMP HOUSE FLOOR PLAN**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**CONSTRUCT NEW WATER
STORAGE FACILITY**

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
PJB

Drawn
PJB

Project Number
564-19-101
Building Number

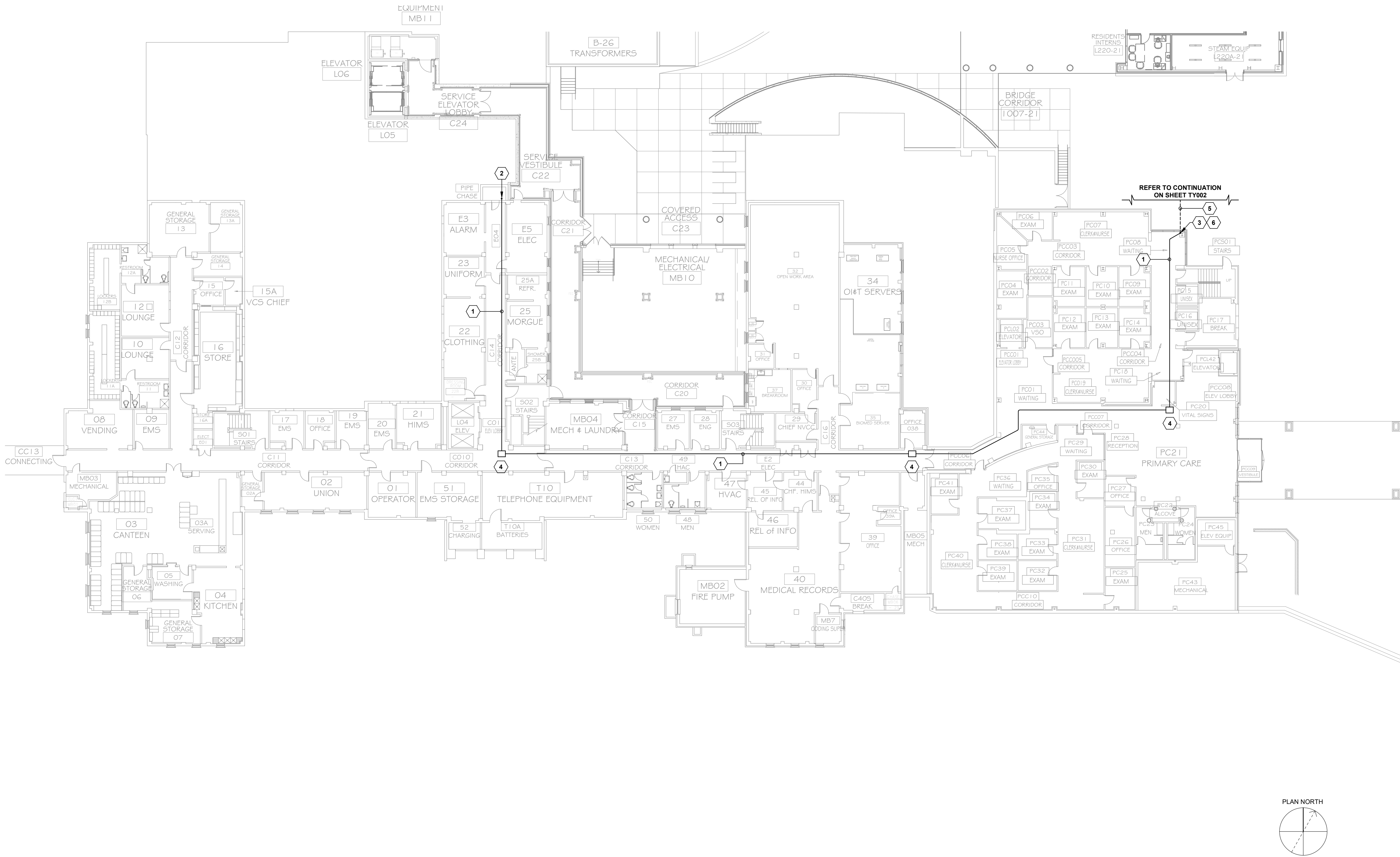
Drawing Number
TY101

GENERAL NOTES:

- 1 ALL WORK WITHIN THIS BUILDING SHALL BE PERFORMED AFTER HOURS. COORDINATE WITH THE VA.
- 2 CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. REFER TO DETAIL ON SHEET TY003.
- 3 ALL SECURITY ELECTRONICS CABLING SHALL BE INSTALLED IN CONDUIT WITH CONDUIT ROUTED ABOVE CEILING.
- 4 ALL CEILING TILES REMOVED SHALL BE REINSTALLED AND ALL DEBRIS SHALL BE REMOVED PRIOR TO NORMAL WORKING HOURS. ANY DAMAGED TILES SHALL BE REPLACED WITH NEW.
- 5 REFER TO SHEET TY003 FOR THE SECURITY LAN FUNCTIONAL SCHEMATIC.

SHEET KEYNOTES:

- 1 4" WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSTV) FROM SPECIAL SYSTEMS DATA ROOM 147 (SHEET TY202) TO PUMP HOUSE BUILDING (SHEET TY101). INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 2 4" SSTV CONDUIT FROM FLOOR ABOVE, ROUTE ABOVE LAY-IN CEILING. REFER TO CONTINUATION ON SHEET TY202.
- 3 TRANSITION FROM UNDERGROUND CONDUIT TO CONDUIT ROUTED ABOVE LAY-IN CEILING. CONTRACTOR SHALL CUT/CORE SLAB AND EXTERIOR WALL FOR ROUTING OF CONDUIT INTO BUILDING. CONTRACTOR SHALL EXTEND EXISTING COLUMN WRAP AS REQUIRED TO INSTALL CONDUIT. REPAIR COLUMN WRAP AND PAINT AS REQUIRED TO MATCH EXISTING.
- 4 PROVIDE PULL BOX INSTALLED ABOVE LAY-IN CEILING. SIZE PULL BOX ACCORDING TO NEC 314.28.
- 5 4" WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSTV) FROM BUILDING 1 TO EXISTING MANHOLE (SHEET TY002). INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 6 PROVIDE A WATER TIGHT SEAL FOR THE CONDUIT PENETRATION. REFER TO DETAIL 5 ON SHEET TY003.



1 SECURITY ELECTRONICS BUILDING 1 GROUND FLOOR PLAN
1/16" = 1'-0"

CONSULTANTS

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PROFESSIONAL SEAL
Patrick Bausden
BICSI ID# 363075
2024-07-15
0002

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
SECURITY ELECTRONICS BUILDING 1 GROUND FLOOR PLAN

Approved: Project Director

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
PJB

Drawn
PJB

Project Number
564-19-101
Building Number

Drawing Number
TY201

GENERAL NOTES:

- 1 ALL WORK WITHIN THIS BUILDING SHALL BE PERFORMED AFTER HOURS. COORDINATE WITH THE VA.
- 2 CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. REFER TO DETAIL ON SHEET TY603.
- 3 ALL SECURITY ELECTRONICS CABLING SHALL BE INSTALLED IN CONDUIT WITH CONDUIT ROUTED ABOVE CEILING.
- 4 ALL CEILING TILES REMOVED SHALL BE REINSTALLED AND ALL DEBRIS SHALL BE REMOVED PRIOR TO NORMAL WORKING HOURS. ANY DAMAGED TILES SHALL BE REPLACED WITH NEW.
- 5 REFER TO SHEET TY603 FOR THE SECURITY LAN FUNCTIONAL SCHEMATIC.

SHEET KEYNOTES:

- 1 4" C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH SSTV) FROM SPECIAL SYSTEMS DATA ROOM 147 TO PUMP HOUSE BUILDING (SHEET TY101). INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 2 4" SSTV CONDUIT FROM FLOOR BELOW, EXTEND TO ABOVE LAY-IN CEILING AND ROUTE TO SPECIAL SYSTEMS DATA ROOM 147. REFER TO CONTINUATION ON SHEET TY201.
- 3 TERMINATE THE SSTV OPTICAL FIBER AT A PATCH PANEL INSTALLED IN SPACE OF THE EXISTING EQUIPMENT RACK. EXTEND PATCH CABLES AS REQUIRED TO TERMINATE FIBER TO THE EXISTING ETHERNET SWITCH. COORDINATE LOCATION OF EXISTING ETHERNET SWITCH WITHIN THE ROOM WITH THE VA.



1 SECURITY ELECTRONICS BUILDING 1 FIRST FLOOR PLAN
1/16" = 1'-0"

CONSULTANTS



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LJDA PROJECT #: 2018.001



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Construction
and Facilities
Management**

VA U.S. Department
of Veterans Affairs

Drawing Title
**SECURITY ELECTRONICS
BUILDING 1 FIRST FLOOR PLAN**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**CONSTRUCT NEW WATER
STORAGE FACILITY**

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
PJB

Drawn
PJB

Project Number
564-19-101
Building Number

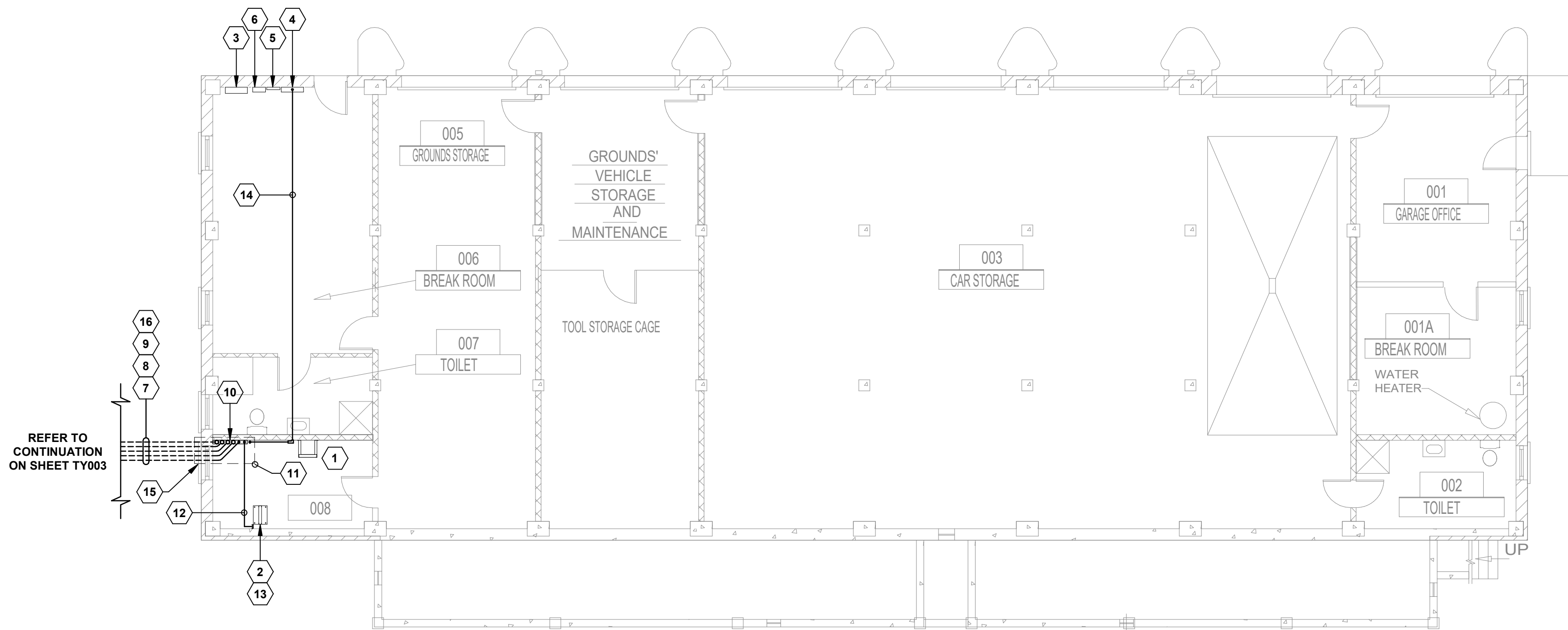
Drawing Number
TY202

GENERAL NOTES:

- 1 ALL WORK WITHIN THIS BUILDING SHALL BE PERFORMED AFTER HOURS. COORDINATE WITH THE VA.
- 2 CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL. REFER TO DETAIL ON SHEET TY603.
- 3 ALL SECURITY ELECTRONICS CABLING SHALL BE INSTALLED IN CONDUIT WITH CONDUIT ROUTED ABOVE CEILING.
- 4 ALL CEILING TILES REMOVED SHALL BE REINSTALLED AND ALL DEBRIS SHALL BE REMOVED PRIOR TO NORMAL WORKING HOURS. ANY DAMAGED TILES SHALL BE REPLACED WITH NEW.
- 5 REFER TO SHEET TY603 FOR THE SECURITY LAN FUNCTIONAL SCHEMATIC.

SHEET KEYNOTES:

- 1 EXISTING WALL-MOUNTED SSTV EQUIPMENT CABINET.
- 2 EXISTING PACS EQUIPMENT RACK.
- 3 EXISTING PACS DOOR CONTROLLER AND POWER SUPPLY.
- 4 EXISTING FACP (NOTIFIER NFS-320).
- 5 EXISTING FACP POWER SUPPLY.
- 6 EXISTING FIRE ALARM OPTICAL FIBER PATCH PANEL.
- 7 4"C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH PACS) FROM THE PUMP HOUSE BUILDING (SHEET TY101). INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 8 TWO (2) SPARE 4"C WITH PULL STRING FROM THE PUMP HOUSE BUILDING (SHEET TY101).
- 9 2"C WITH FIRE ALARM CABLING FROM THE PUMP HOUSE BUILDING (SHEET TY101). REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
- 10 PROVIDE PULL BOX/WIREWAY FOR CABLE INSTALLATION - SIZE PER NEC.
- 11 CUT/CORE SLAB AND EXTERIOR WALL FOR ROUTING OF CONDUITS INTO BUILDING. PATCH SLAB BACK AS REQUIRED TO MATCH EXISTING.
- 12 EXTEND 2"C WITH 6-STRAND SINGLEMODE (OS2) OPTICAL FIBER (ASSOCIATED WITH PACS) TO THE EXISTING PACS EQUIPMENT RACK. INSTALL THE OPTICAL FIBER INSIDE A 1" INNERDUCT.
- 13 TERMINATE THE OPTICAL FIBER AT A PATCH PANEL INSTALLED IN SPACE OF THE EXISTING EQUIPMENT RACK. EXTEND PATCH CABLES AS REQUIRED TO TERMINATE 2-STRANDS OF FIBER TO THE EXISTING ETHERNET SWITCH.
- 14 EXTEND 2"C WITH FIRE ALARM CABLING FROM THE WIREWAY TO THE EXISTING FACP. ROUTE CONDUIT ABOVE LAY-IN CEILING OF BREAK ROOM 006 AND TOILET 007. REFER TO FIRE ALARM DRAWINGS FOR CABLE AND SURGE PROTECTION REQUIREMENTS.
- 15 PROVIDE A WATER TIGHT SEAL FOR THE CONDUIT PENETRATIONS. REFER TO DETAIL 5 ON SHEET TY603.
- 16 4"C WITH BUILDING AUTOMATION SYSTEM (BAS) CABLING FROM THE PUMP HOUSE BUILDING (SHEET TY101). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 SECURITY ELECTRONICS BUILDING 8 FIRST FLOOR
1/8" = 1'-0"

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Revisions:
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Date:

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BICSID ID# 363075
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**Office of
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and Facilities
Management**

VA

U.S. Department
of Veterans Affairs

Drawing Title
**SECURITY ELECTRONICS
BUILDING 8 GROUND FLOOR PLAN**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**CONSTRUCT NEW WATER
STORAGE FACILITY**

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
PJB

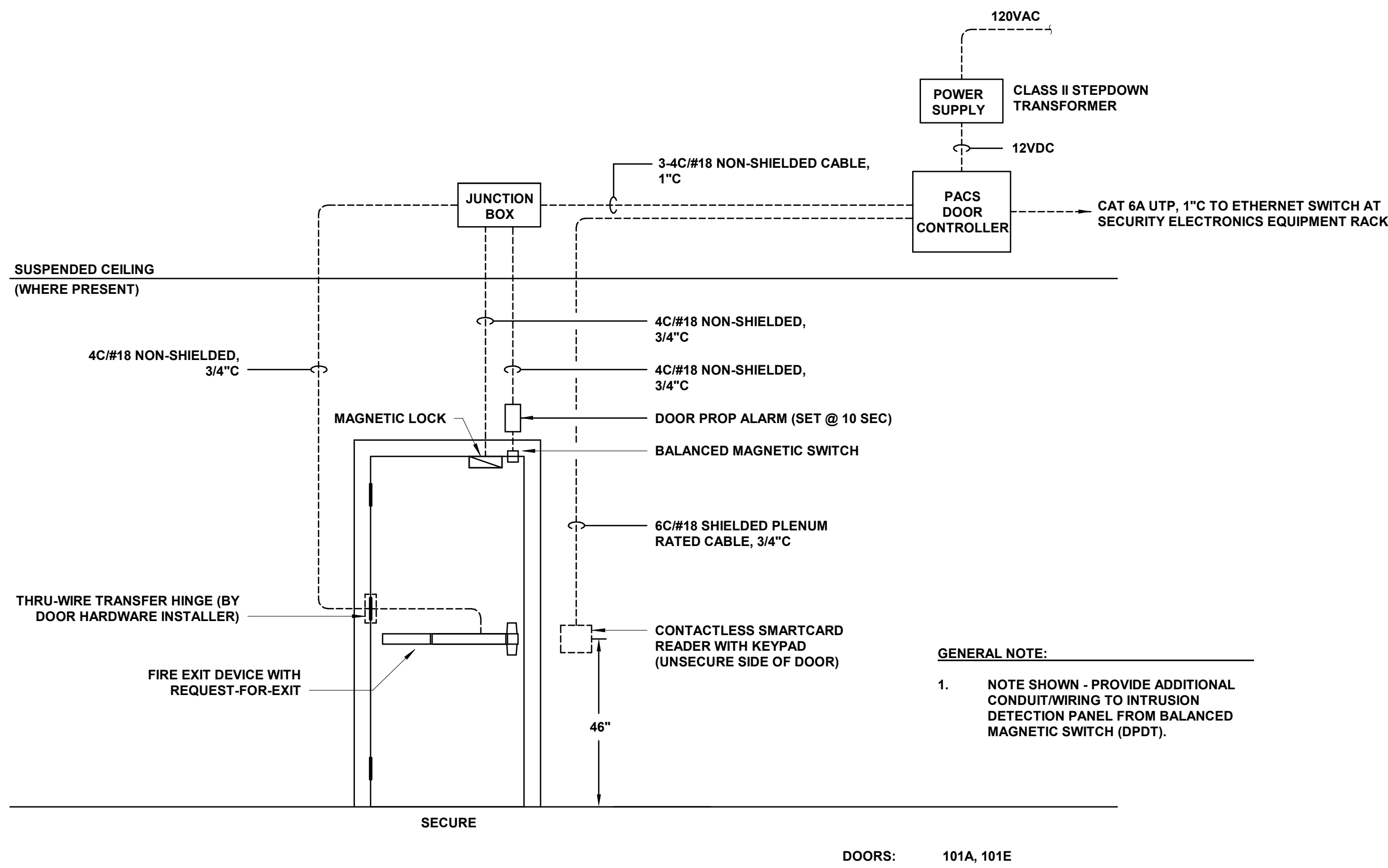
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PJB

Project Number
564-19-101

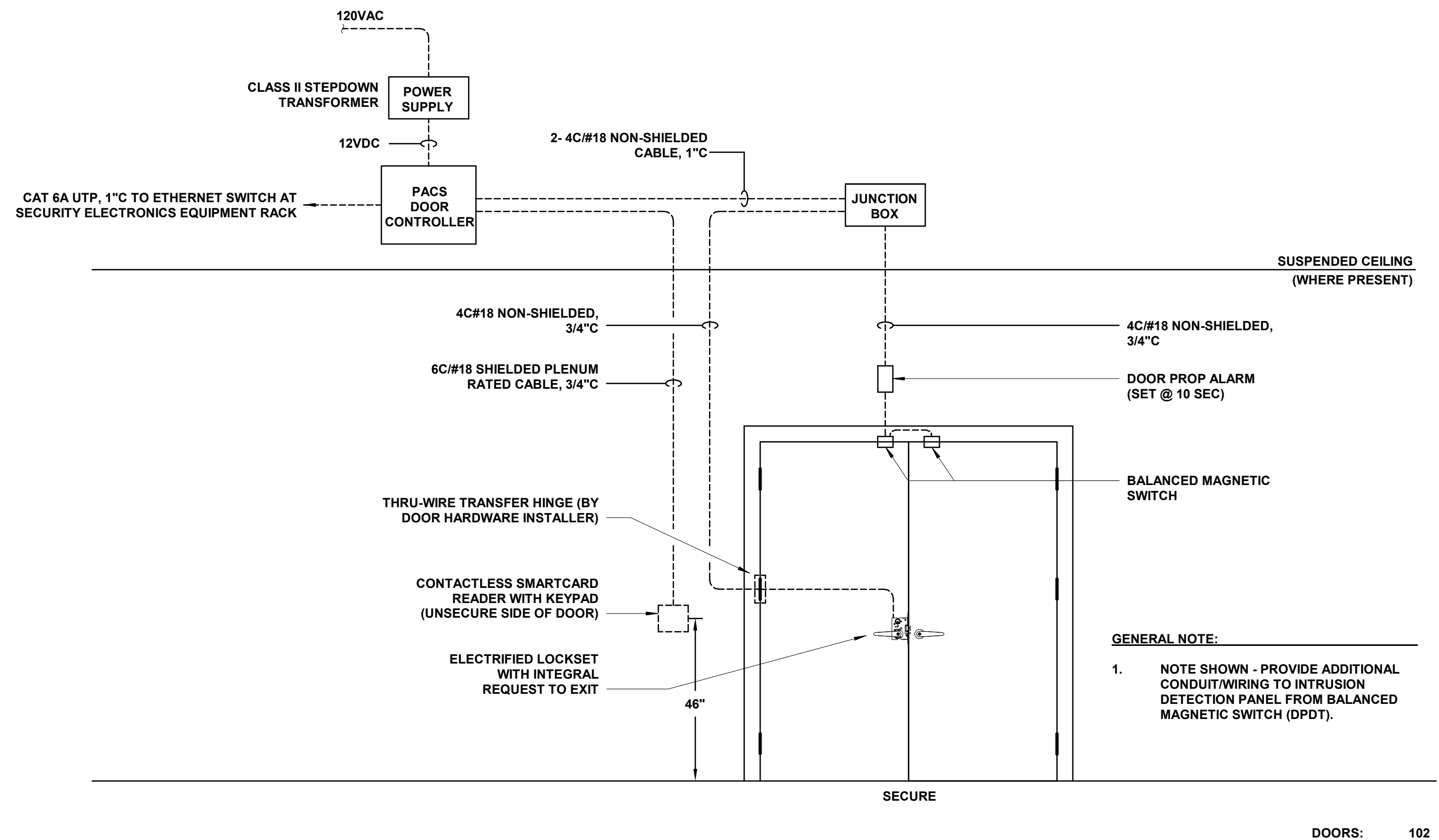
Building Number

Drawing Number

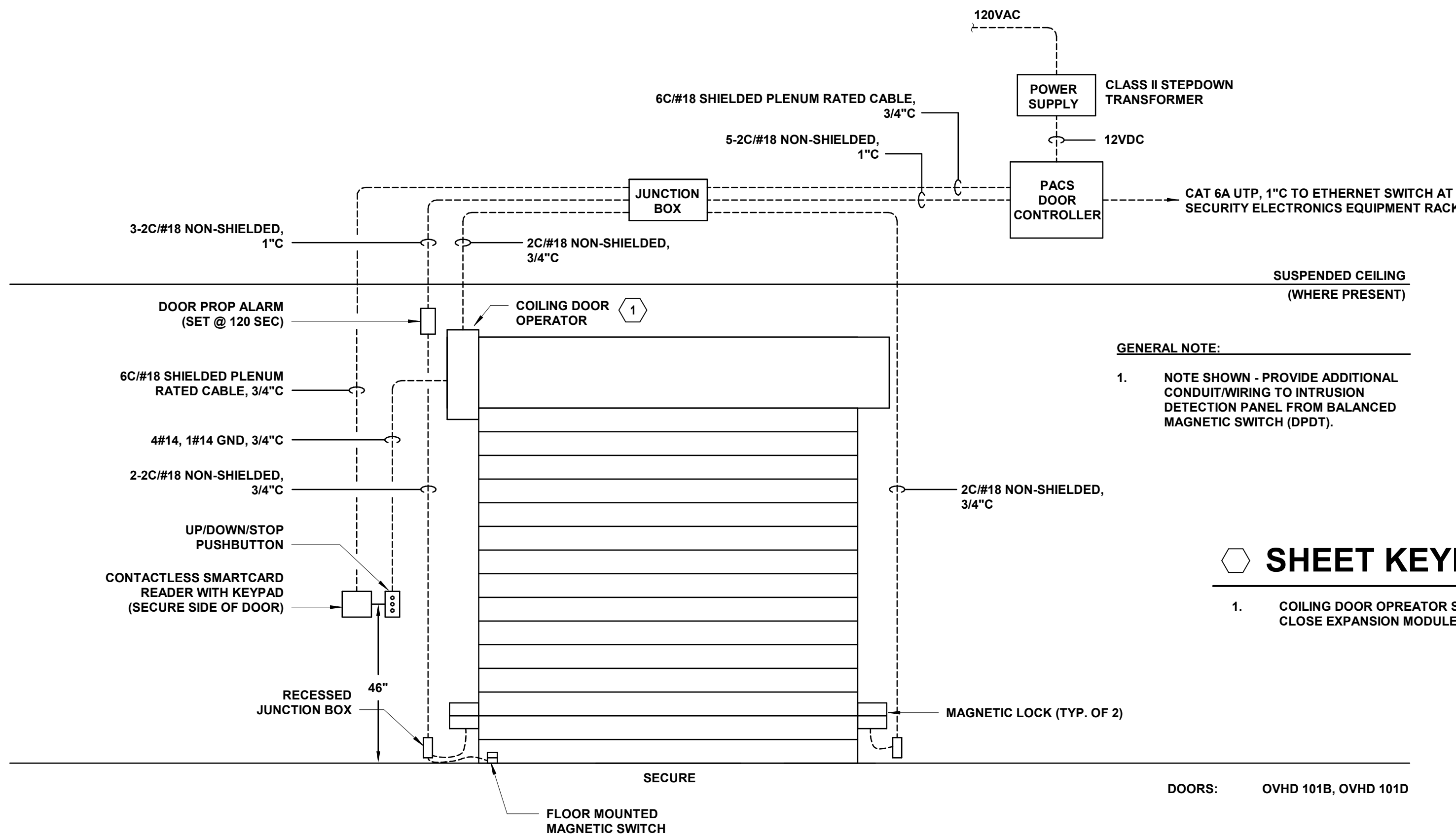
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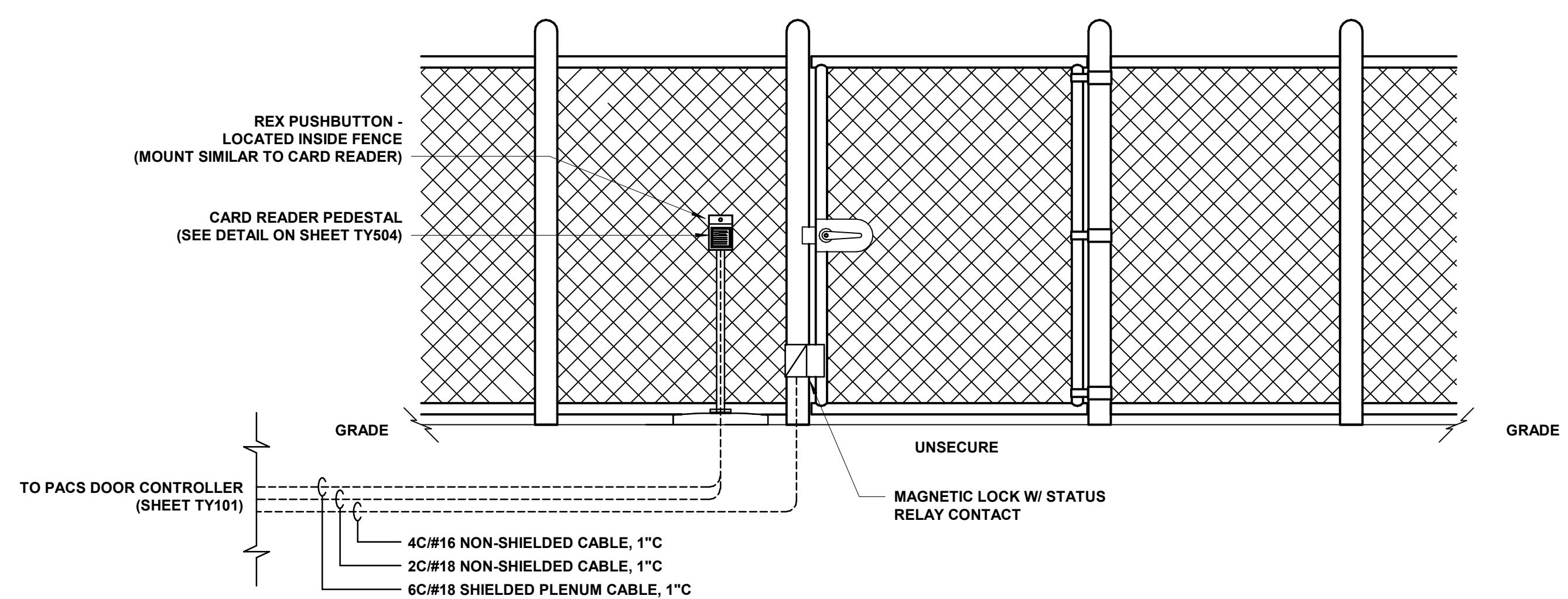
1 TYPICAL SINGLE DOOR WITH MAGNETIC LOCK DETAIL
NOT TO SCALE



2 TYPICAL DOUBLE DOOR WITH ELECTRIFIED LOCKSET
NOT TO SCALE



3 TYPICAL OVERHEAD DOOR WITH MAGNETIC LOCK DETAIL
NOT TO SCALE



4 TYPICAL PEDESTRIAN GATE WITH MAGNETIC LOCK
NOT TO SCALE

SHEET KEYNOTES:

1. COILING DOOR OPERATOR SHALL BE PROVIDED WITH A TIMER CLOSE EXPANSION MODULE. SET TIME DELAY @ 120-SECONDS.

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PATRICK BAUSEN
BICS ID# 363075
2024-07-15

Office of
Construction
and Facilities
Management
VA U.S. Department
of Veterans Affairs

Drawing Title
SECURITY ELECTRONICS
PACS DETAILS

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
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Checked
PJB

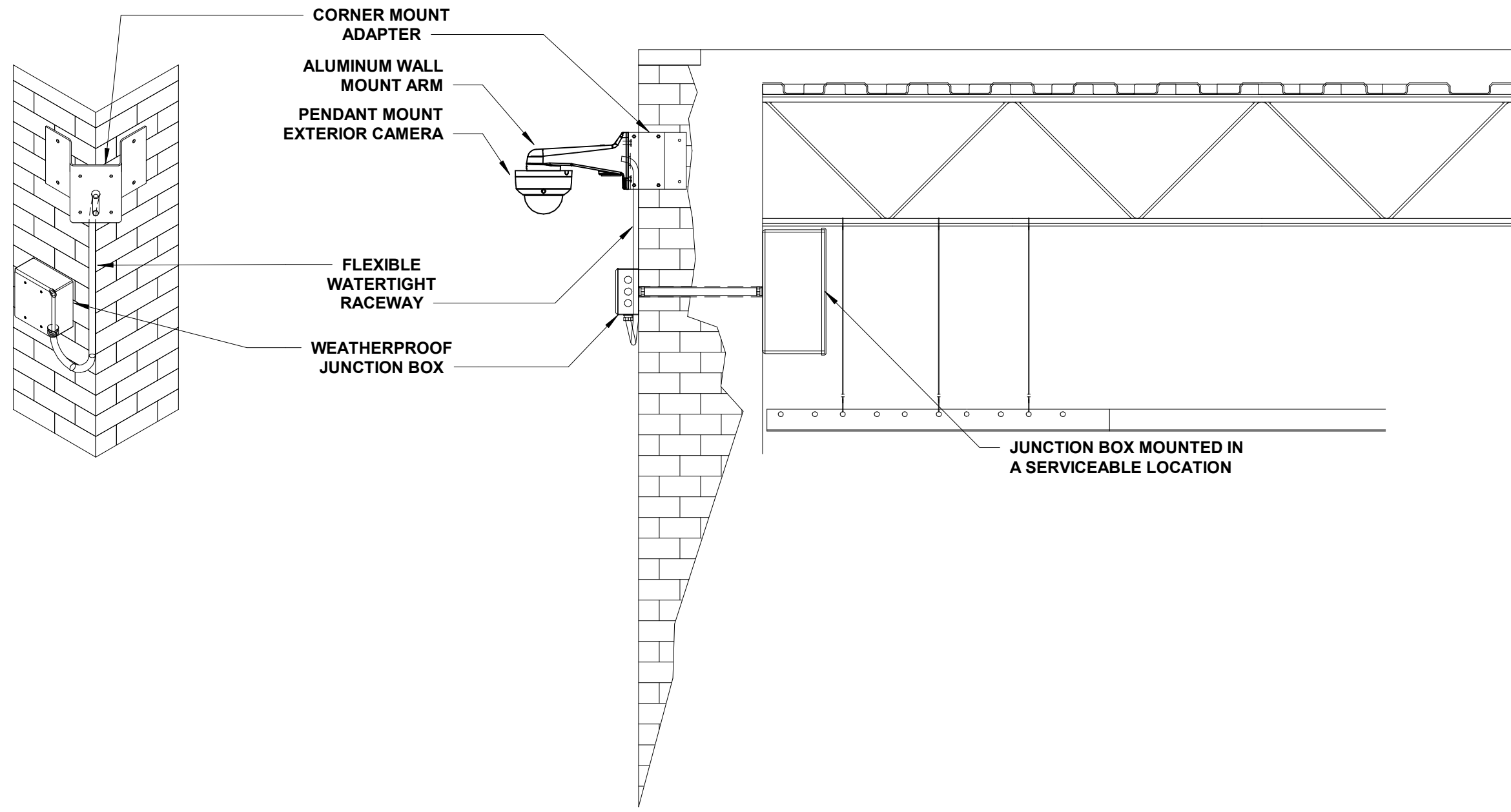
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PJB

Project Number
564-19-101

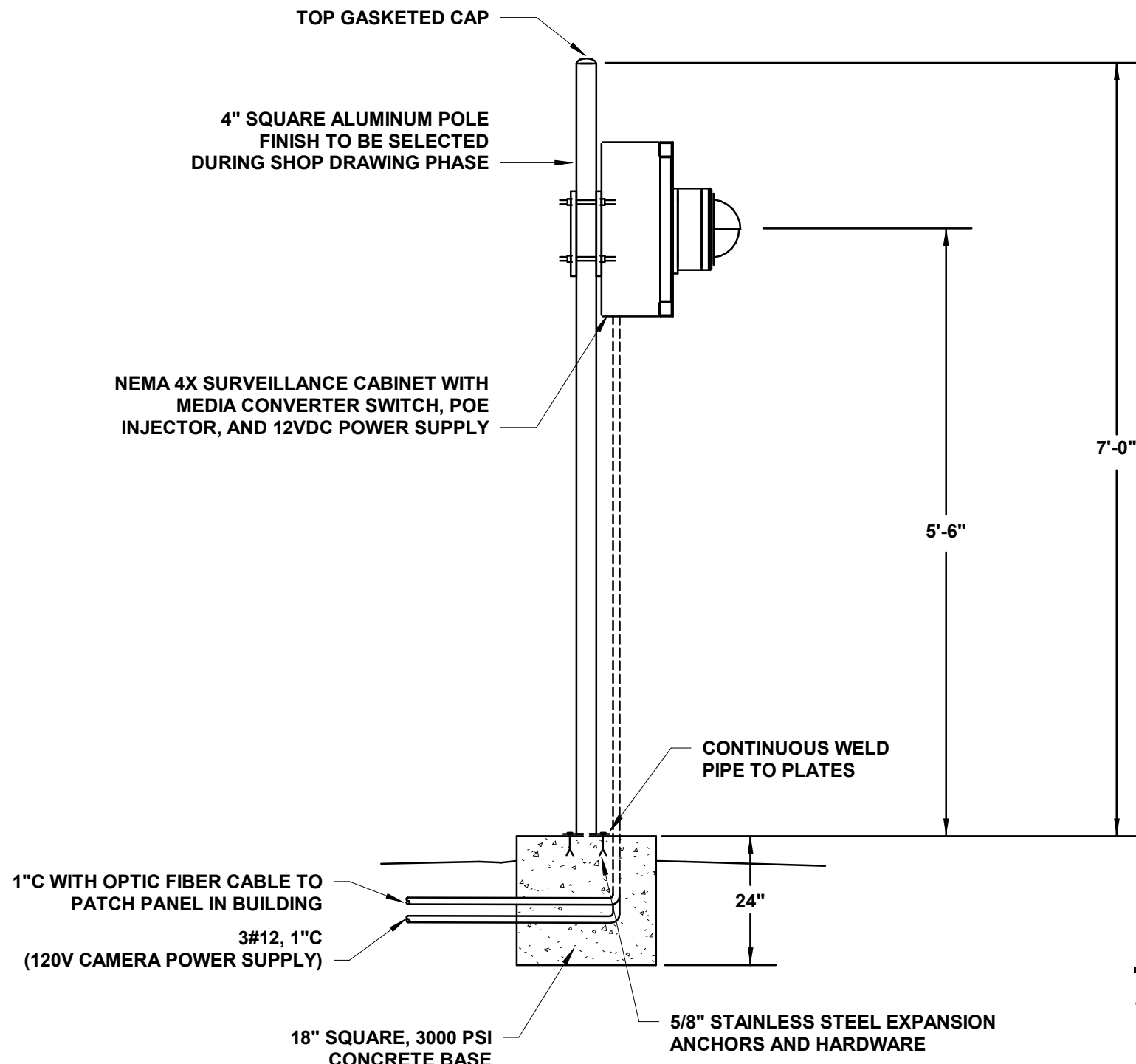
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Drawing Number

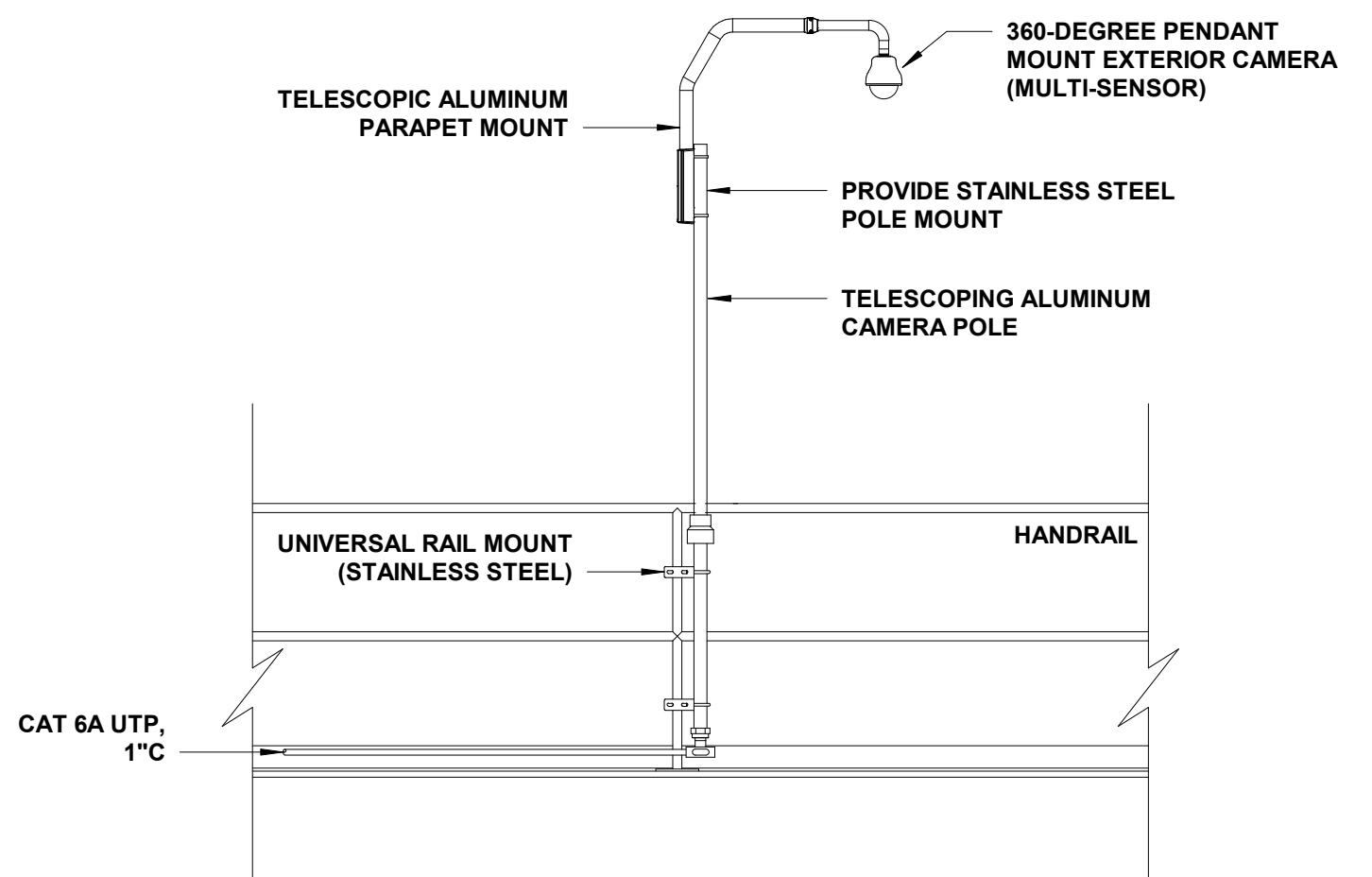
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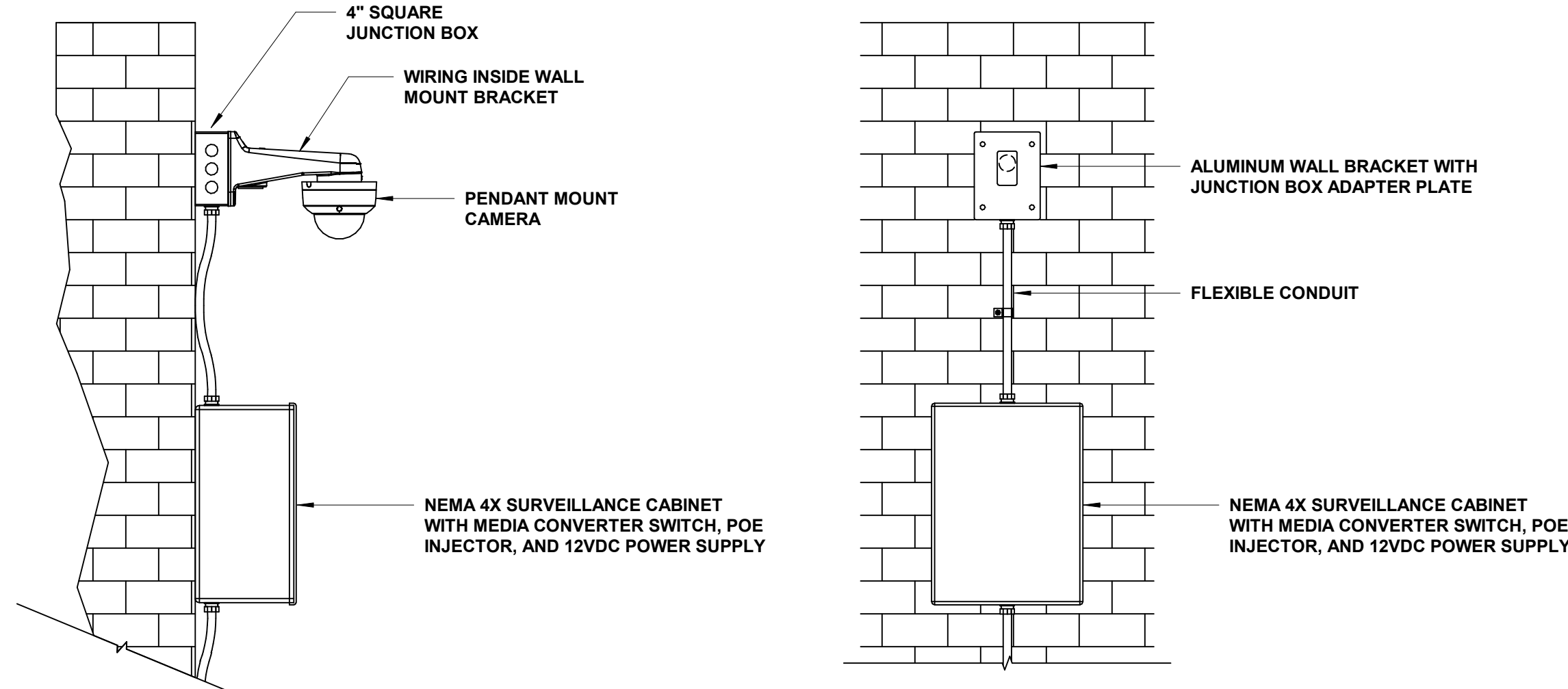
1 CORNER MOUNT CAMERA
NOT TO SCALE



2 SECURITY GATE ENTRANCE CAMERA MOUNTING DETAIL
NOT TO SCALE



3 CAMERA POLE DETAIL
NOT TO SCALE



4 WALL MOUNT CAMERA
NOT TO SCALE

G:\5020-JohnsonDanforth\02-VHSO New Water Storage Facility\Working
Engineering\Revit\Electrical\564-19-101_Fayetteville Water Storage_TY-CENTRAL-422.rvt
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**Office of
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Management**



U.S. Department
of Veterans Affairs

Drawing Title
**SECURITY ELECTRONICS
SSTV DETAILS**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**CONSTRUCT NEW WATER
STORAGE FACILITY**

Location
FAYETTEVILLE, AR

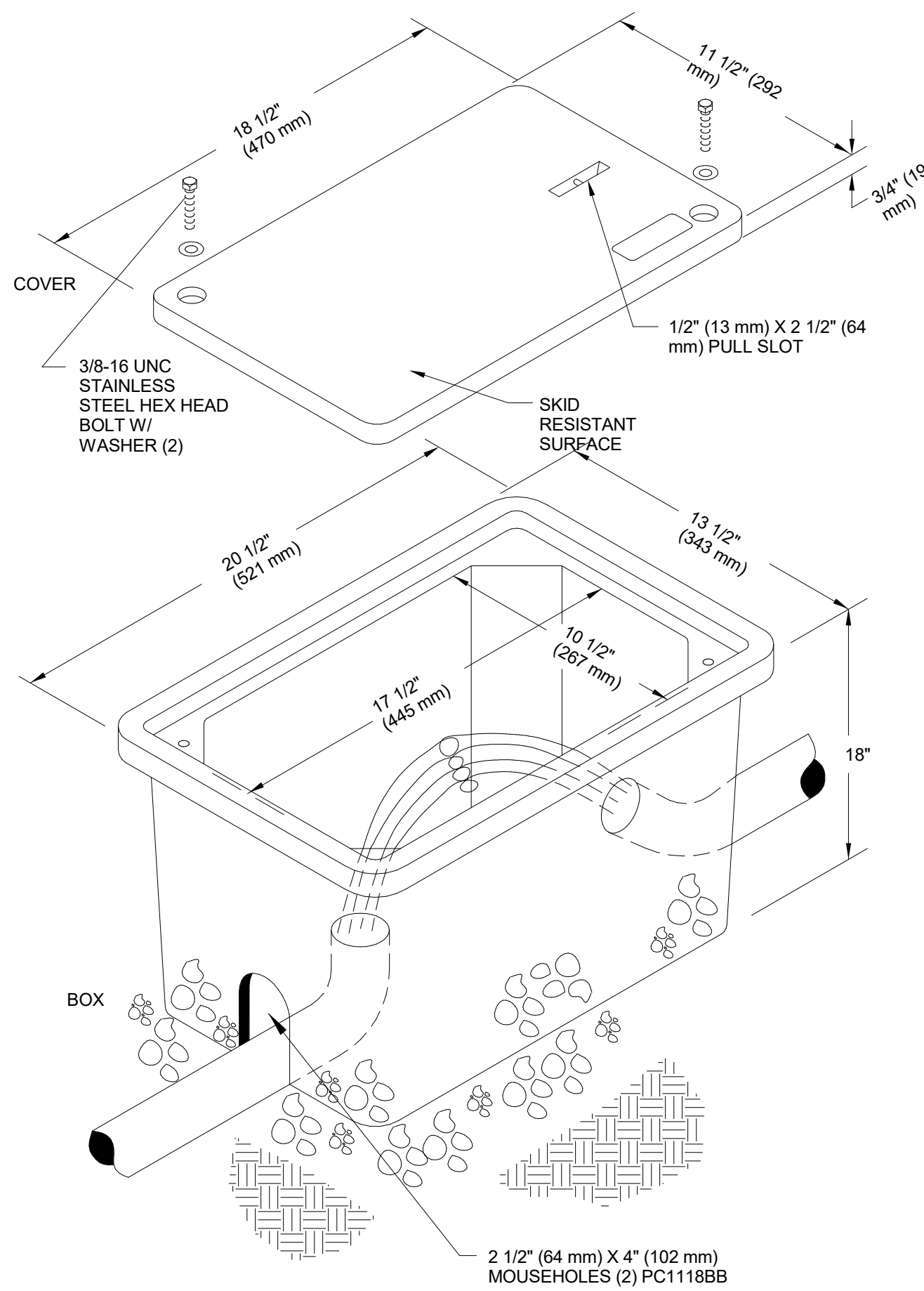
Issue Date
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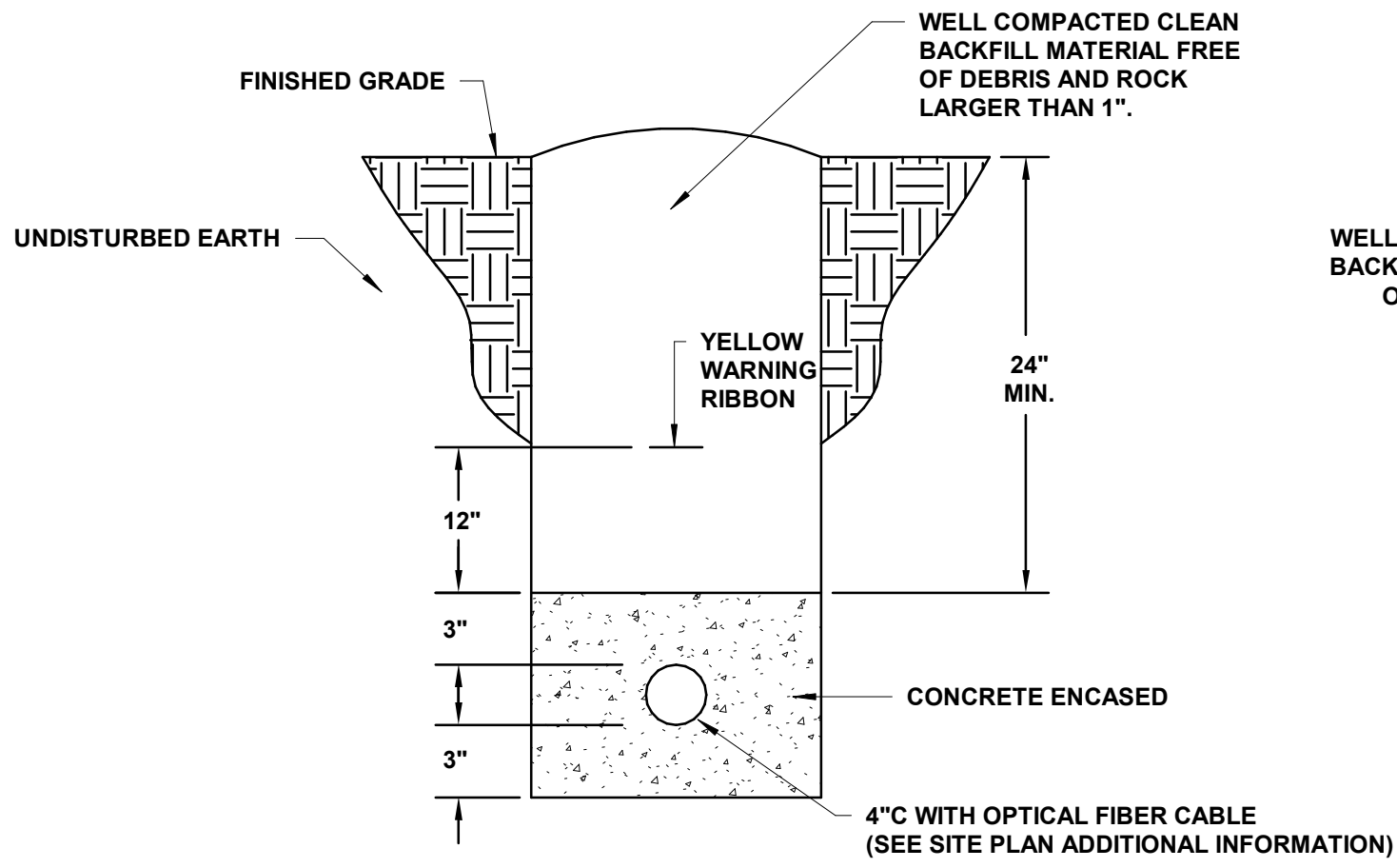
Project Number
564-19-101
Building Number

Drawing Number
TY502



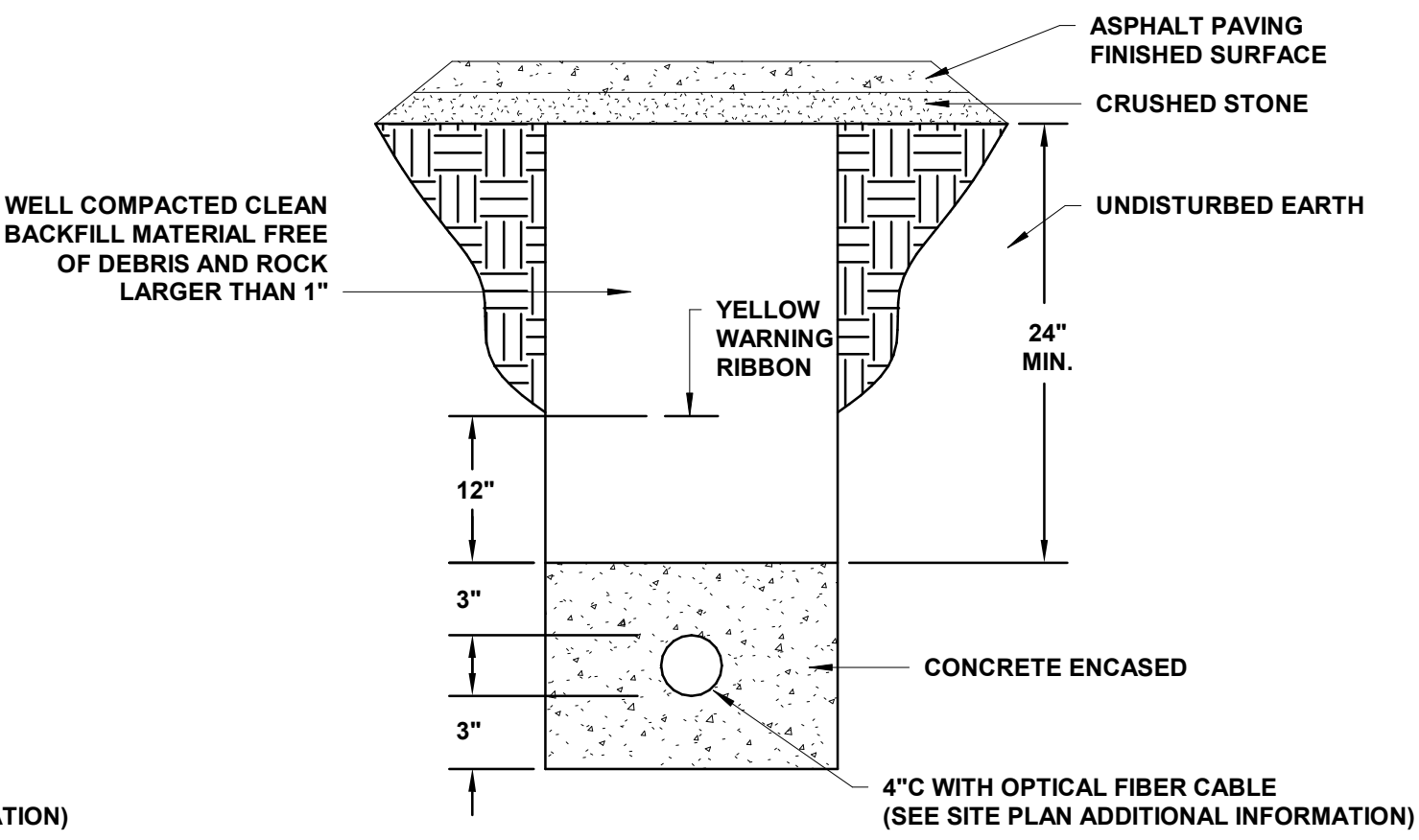
GENERAL NOTES:

- DIMENSIONS ARE FOR REFERENCE ONLY. PULL BOXES SHALL BE SIZED PER NEC.



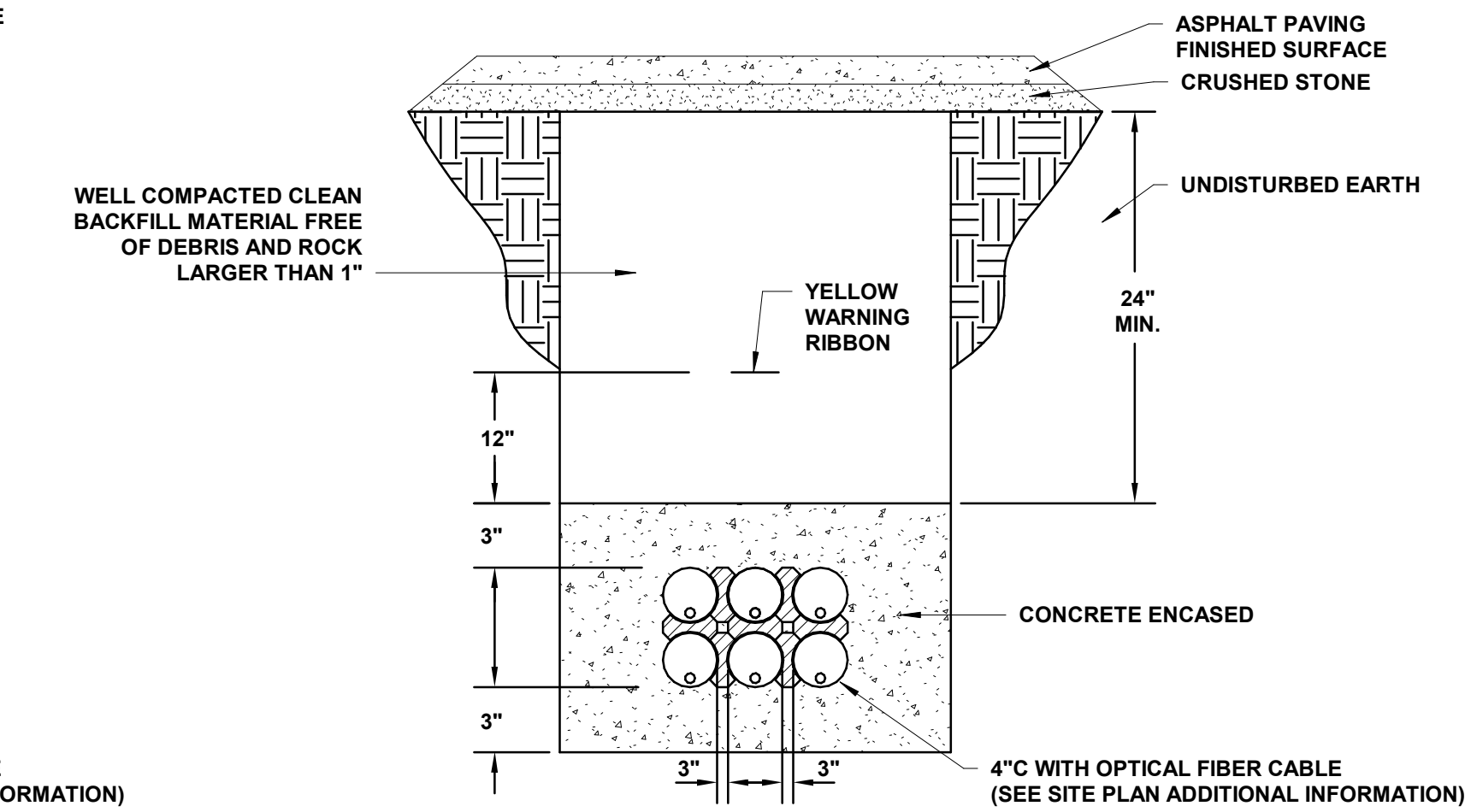
2 SINGLE CONDUIT DUCT BANK SECTION

NOT TO SCALE



3 MULTIPLE CONDUIT DUCT BANK SECTION

NOT TO SCALE



GENERAL NOTES:

- CONCRETE SHALL BE 3000 PSI @ 28 DAYS OR AS SPECIFIED.
- CONDUITS SHALL BE PVC SCHEDULE 80.
- PROVIDE #4 REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.
- PROVIDE ONE (1) SPACER PER 10 FEET IN LENGTH OF DUCT, MINIMUM. COORDINATE WITH MANUFACTURER'S RECOMMENDATIONS.
- CONDUIT SPACERS SHALL BE INSTALLED TO PROVIDE 3 INCHES OF CLEARANCE BETWEEN ALL DUCTS. PROVIDE ALL TIE WIRE, HOLD DOWNS, TIE WRAPS AND OTHER MISCELLANEOUS MATERIALS FOR DUCT BANK CONSTRUCTION PER MANUFACTURER'S RECOMMENDATIONS.
- LAST ELBOW OF CONDUIT RUNS BEFORE BEING EXPOSED IN BUILDINGS SHALL BE GALVANIZED RIGID STEEL. PROVIDE AN ASPHALTUM COATING ON STEEL CONDUIT AND FITTINGS BELOW GRADE.
- ALL EMPTY CONDUITS SHALL INCLUDE PULL ROPE.

1 COMMUNICATION PULLBOX DETAIL

NOT TO SCALE

3 MULTIPLE CONDUIT DUCT BANK SECTION

NOT TO SCALE

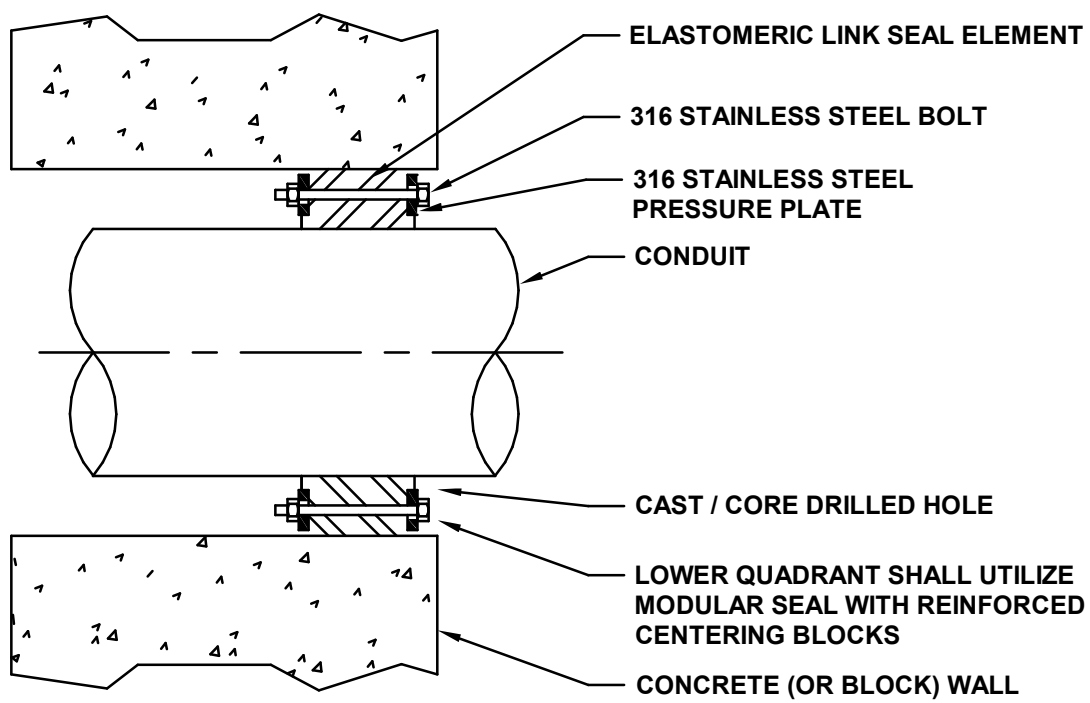
SYSTEM NOTES:

- FLOOR OR WALL ASSEMBLY — MINIMUM 5 INCH (127 MM) THICK REINFORCED NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAXIMUM DIAMETER OF OPENING IS 6 INCHES (152 MM).

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- METALLIC SLEEVE — (OPTIONAL) - NOMINAL 6 INCHES (152 MM) DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING, STEEL CONDUIT, OR CAST IRON PIPE CAST OR GROUTED INTO FLOOR OR WALL. ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.
- THROUGH PENETRANTS — ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOMINAL ANNULAR SPACE OF 3/4 INCH (19 MM) IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

A. STEEL PIPE — NOMINAL 4 INCH (102 MM) DIAMETER (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
B. CONDUIT — NOMINAL 4 INCH (102 MM) DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
- PACKING MATERIAL — MINIMUM 3 INCH (76 MM) THICKNESS OF MINIMUM 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALLS MID DEPTH AND RECESSED TO ALLOW FOR INSTALLATION OF FILL MATERIAL.
- FILL, VOID OR CAVITY MATERIAL* — SEALANT — MINIMUM 1/2 INCH (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. IN WALLS, FILL MATERIAL TO BE APPLIED ON EACH SIDE OF PACKING MATERIAL.

3M COMPANY — TYPES FB-1000 NS, FB-1003SL (FLOORS ONLY), FB-2000 OR FB-2000+ (FLOORS ONLY).
*BEARING THE UL CLASSIFICATION MARK



5 CONDUIT PENETRATION DETAIL

NOT TO SCALE

4 CONDUIT PENETRATIONS THROUGH FIRE FLOOR / WALL - 1HR (CONCRETE)

NOT TO SCALE

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EXPIRES 12-31-23
#20202

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
SECURITY ELECTRONICS
MISCELLANEOUS DETAILS I

Approved: Project Director

Phase
CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW WATER
STORAGE FACILITY

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
PJB

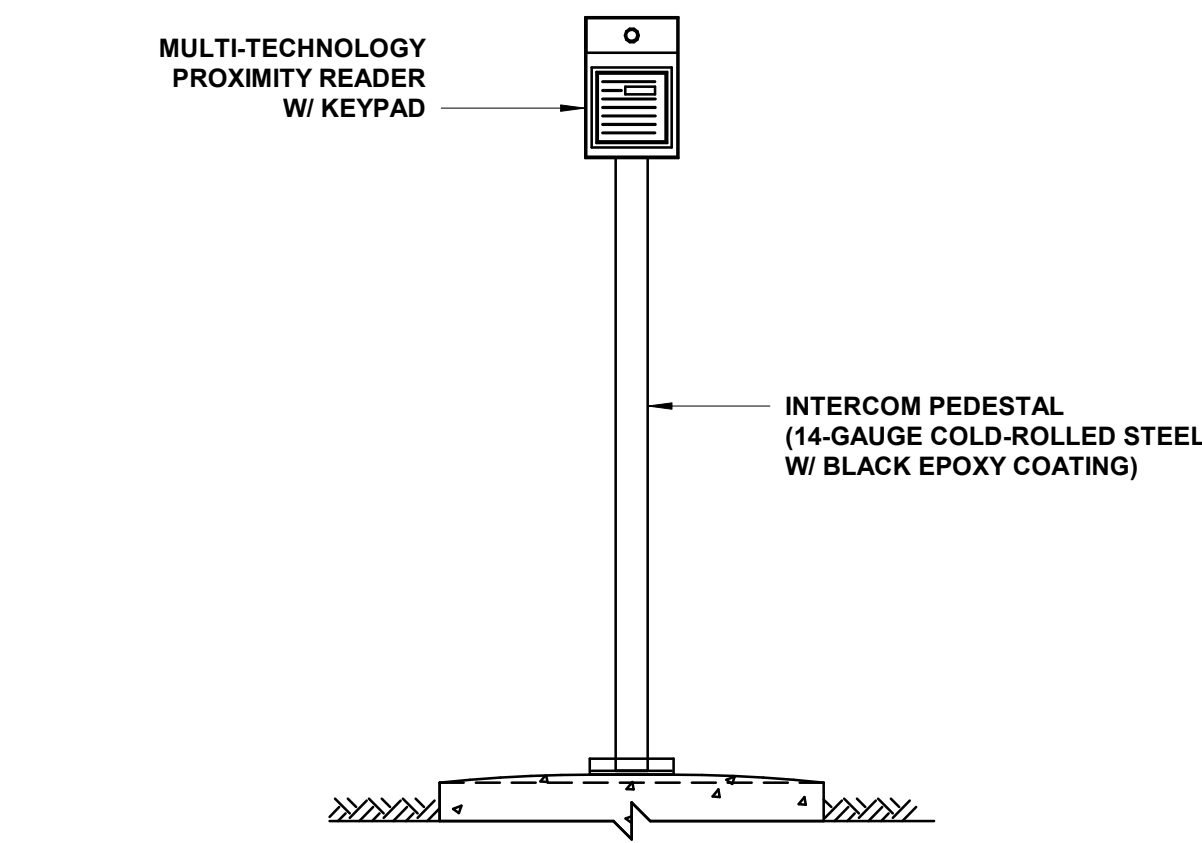
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PJB

Project Number
564-19-101

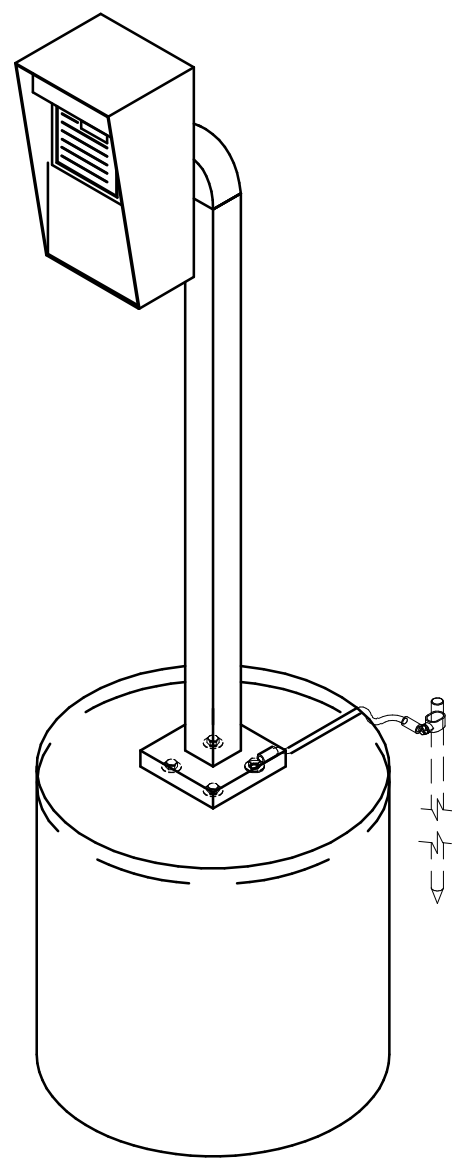
Building Number

Drawing Number

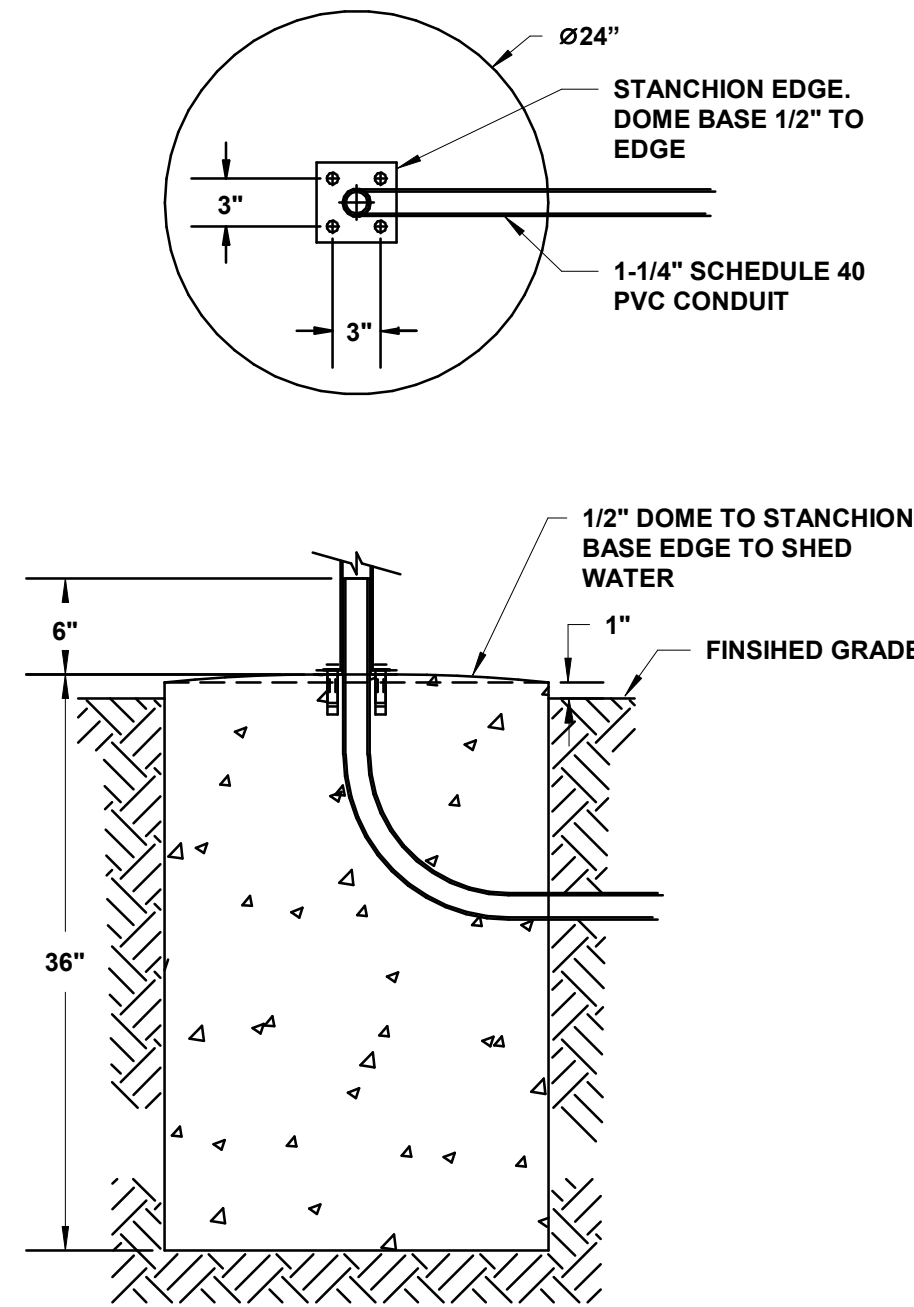
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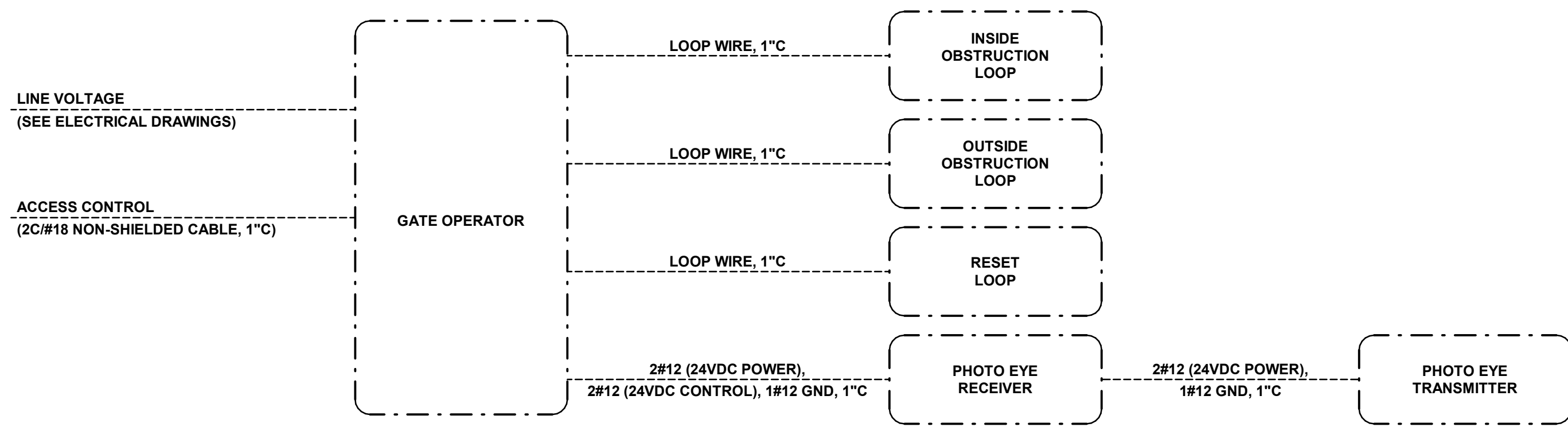
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NOT TO SCALE



2 PEDESTAL - ISOMETRIC
NOT TO SCALE

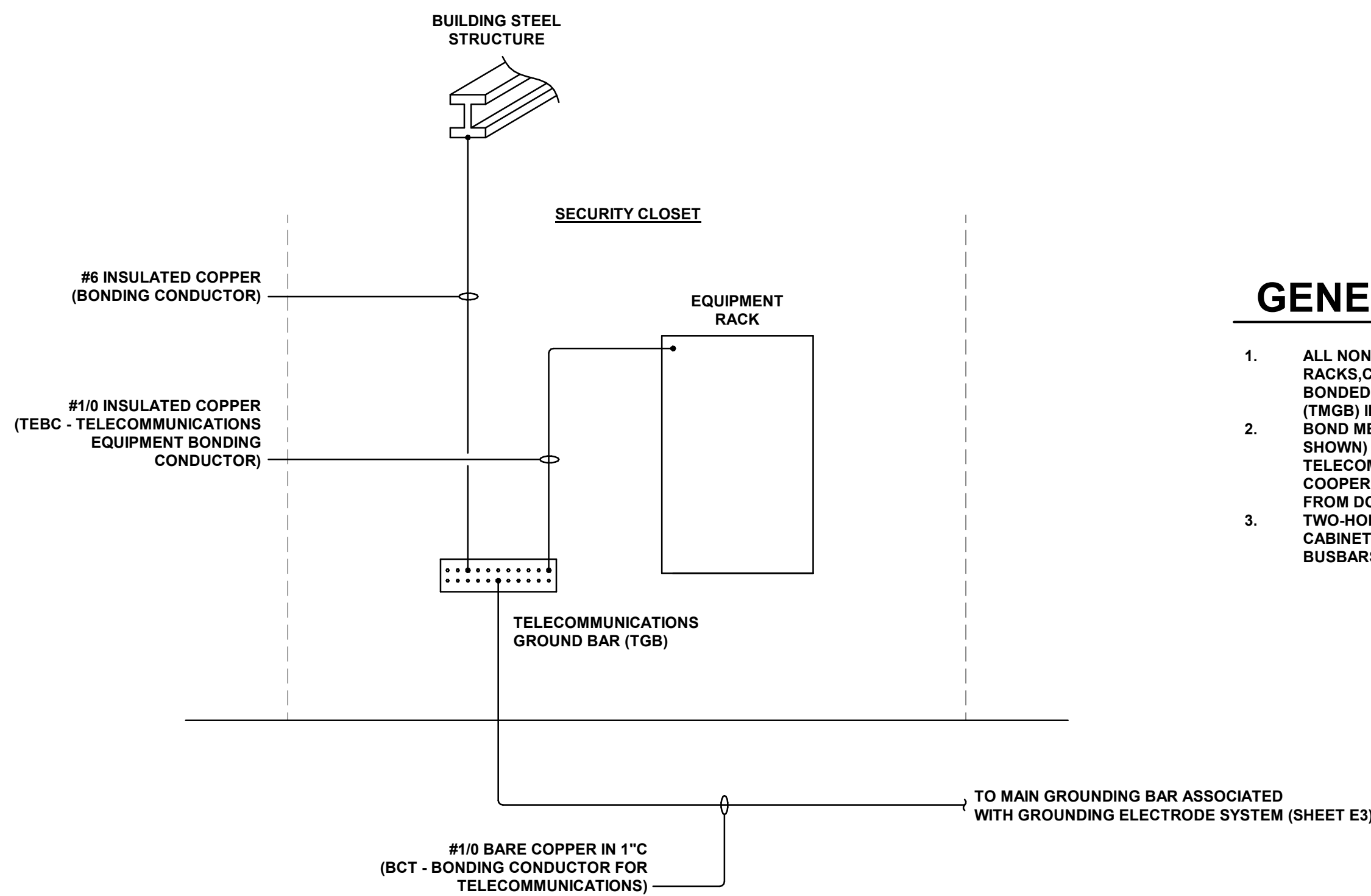


3 PEDESTAL BASE
NOT TO SCALE



- GENERAL NOTES:
- GATE AND GATE OPERATOR FURNISHED AND INSTALLED BY DIVISION 32.
 - CONTRACTOR TO VERIFY WIRING REQUIREMENTS WITH ARCHITECT/ENGINEER APPROVED SHOP DRAWINGS.

4 GATE CONTROLLER DIAGRAM
NOT TO SCALE



GENERAL NOTES:

- ALL NON-CURRENT CARRYING METAL OBJECTS (EQUIPMENT RACKS, CONDUIT, LIGHTS, HVAC EQUIPMENT, ETC.) SHALL BE BONDED TO THE TELECOMMUNICATIONS MAIN GROUND BAR (TMGB) IN SECURITY CLOSET.
- BOND METAL DOOR FRAMES, LIGHTS, HVAC EQUIPMENT (NOT SHOWN) WITH #6 INSULATED COPPER CONDUCTOR TO TELECOMMUNICATIONS GROUND BAR (TGB). PROVIDE FLEXIBLE COPPER STRAP OR #6 INSULATED GROUND CONDUCTOR JUMPER FROM DOOR FRAME TO METAL DOORS.
- TWO-HOLE LUGS SHALL BE USED TO BOND TO BUSBARS, RACKS, CABINETS, ETC. COMPRESSION STYLE SHALL BE USED FOR ALL BUSBARS.

5 TELECOMMUNICATION GROUNDING DETAIL
NOT TO SCALE

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Revisions: Date:

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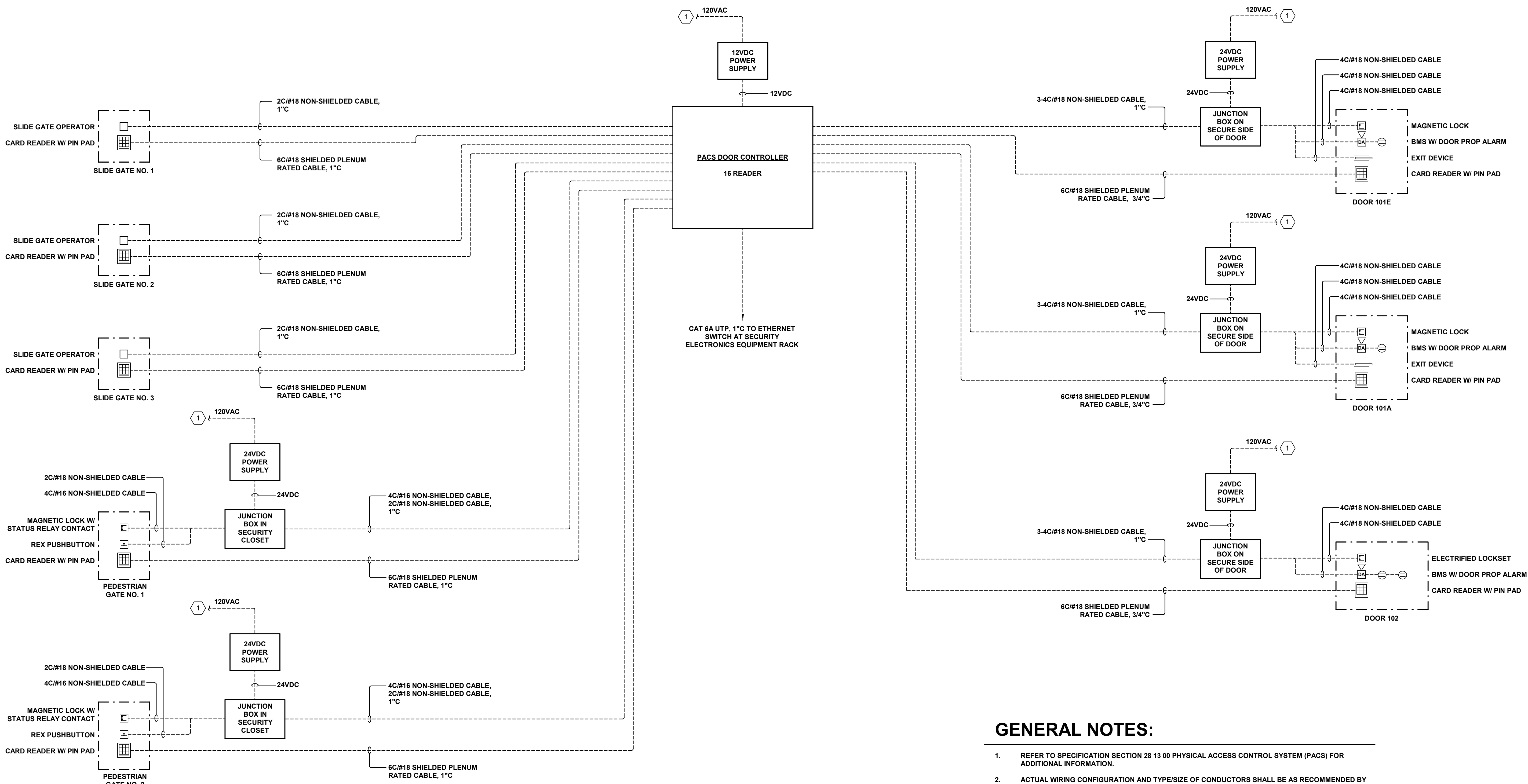
Office of
Construction
and Facilities
Management
VA U.S. Department
of Veterans Affairs

Drawing Title
**SECURITY ELECTRONICS
MISCELLANEOUS DETAILS II**
Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**
FULLY SPRINKLERED

Project Title
**CONSTRUCT NEW WATER
STORAGE FACILITY**
Location
FAYETTEVILLE, AR
Issue Date
2022.07.15
Checked
PJB
Drawn
PJB

Project Number
564-19-101
Building Number
Drawing Number
TY504



GENERAL NOTES:

- REFER TO SPECIFICATION SECTION 28 13 00 PHYSICAL ACCESS CONTROL SYSTEM (PACS) FOR ADDITIONAL INFORMATION.
- ACTUAL WIRING CONFIGURATION AND TYPE/SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY THE PACS MANUFACTURER/SUPPLIER WITHIN MINIMUM REQUIREMENTS STATED IN SPECIFICATIONS.
- PACS COMPONENTS SHOWN CONSTITUTE THE TYPE, PRODUCT QUALITY, MATERIAL AND DESIRED OPERATING FEATURES REQUIRED. THE ACCESS CONTROL SYSTEM MANUFACTURER/SUPPLIER IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL SYSTEM.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATING TO ELECTRIFIED DOOR HARDWARE. EXIT DEVICES, ELECTRIC LOCKS, LATCHBOLT/DOOR STATUS SWITCHES, POWER SUPPLIES, ETC. ARE FURNISHED AND INSTALLED BY THE DOOR HARDWARE CONTRACTOR. WIRING FROM ELECTRIFIED DOOR HARDWARE WILL BE INSTALLED COMPLETE TO JUNCTION BOX LOCATED ABOVE CEILING. ALL OTHER REQUIRED CONNECTIONS BY PACS CONTRACTOR.
- CATEGORY 6A, UNSHIELDED TWISTED PAIR (UTP) WITH OVERALL PURPLE JACKET. TERMINATE ALL ENDS WITH A RJ45 MODULAR PLUG USING THE TIA/EIA 568B COLOR CODING STANDARD.

SHEET KEYNOTES:

- REFER TO ELECTRICAL DRAWINGS FOR CIRCUIT INFORMATION.

1 PACS RISER DIAGRAM
NOT TO SCALE

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JDA PROJECT #: 2018.001



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Construction
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Management**

VA U.S. Department
of Veterans Affairs

Drawing Title
**SECURITY ELECTRONICS
PACS RISER DIAGRAM**

Approved: Project Director

Phase
**CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title
**CONSTRUCT NEW WATER
STORAGE FACILITY**

Location
FAYETTEVILLE, AR

Issue Date
2022.07.15

Checked
PJB

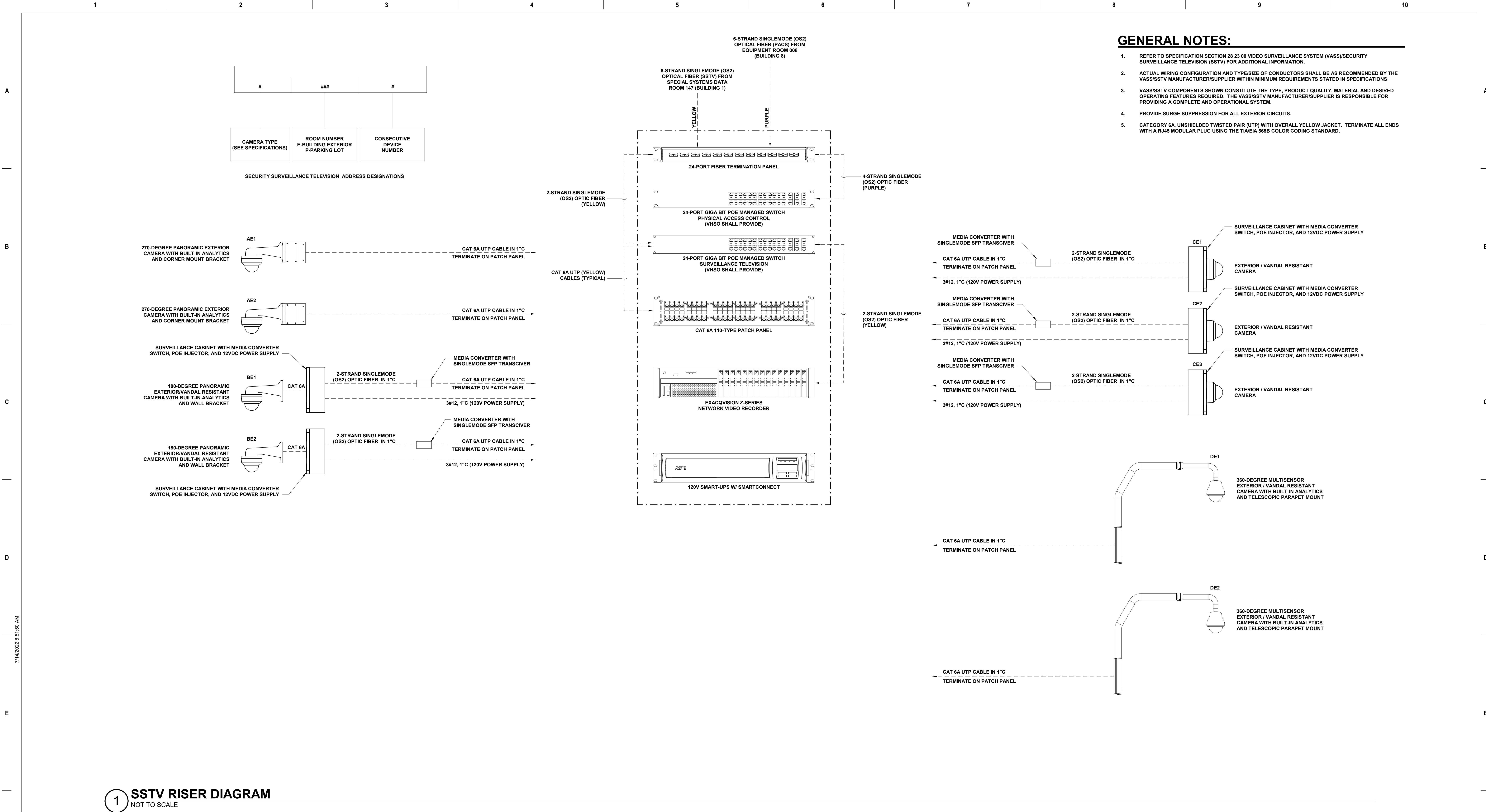
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PJB

Project Number
564-19-101

Building Number







Drawing Number

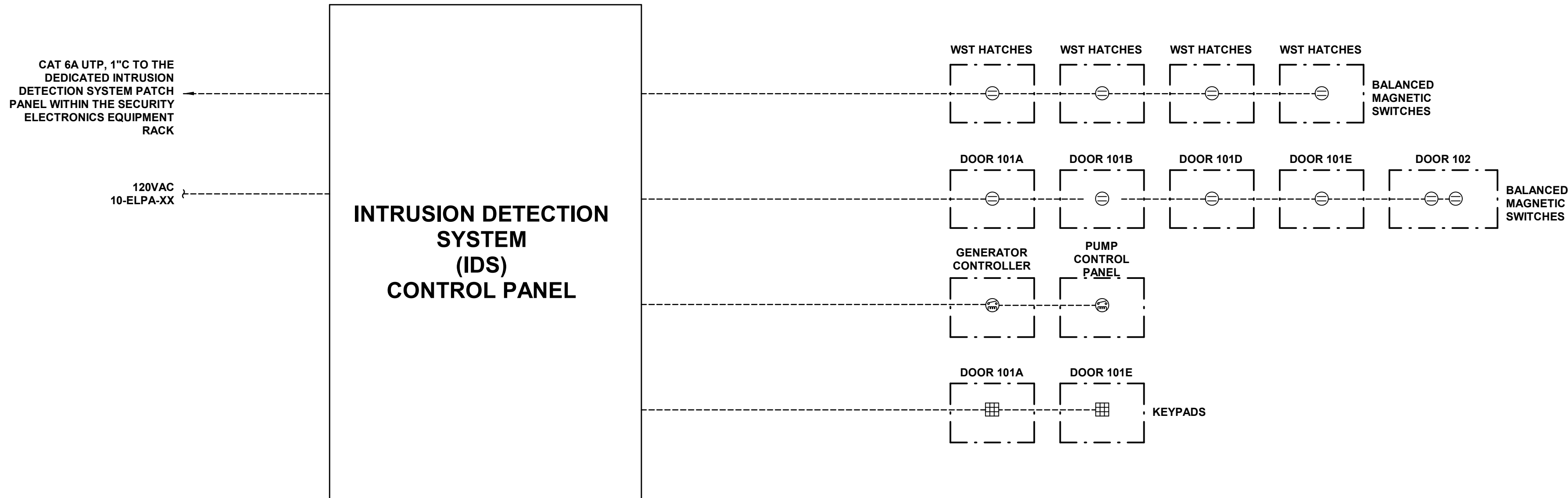
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1 SSTV RISER DIAGRAM
NOT TO SCALE

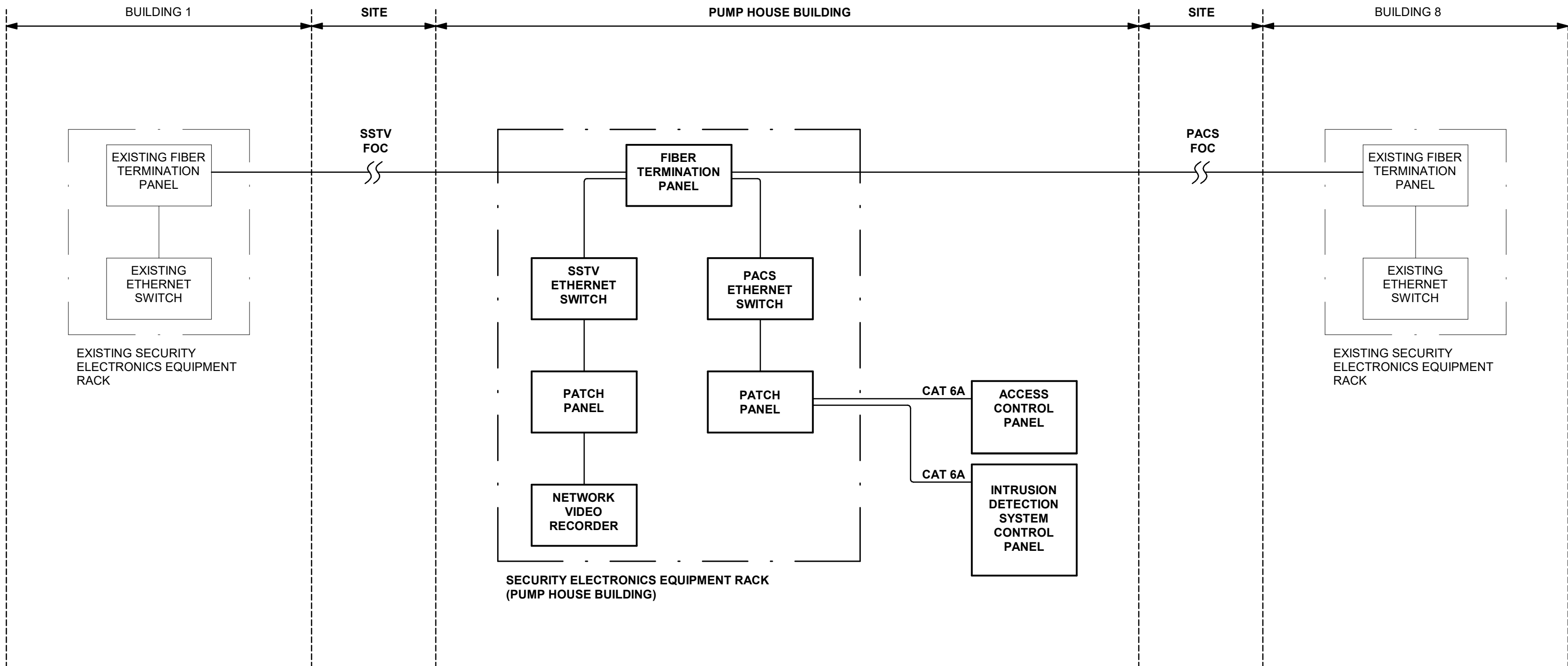
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CONSULTANTS				ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management		Drawing Title SECURITY ELECTRONICS SSTV RISER DIAGRAM		Phase CONSTRUCTION DOCUMENTS		Project Title CONSTRUCT NEW WATER STORAGE FACILITY		Project Number 564-19-101		
 FIRE PROTECTION FP&C CONSULTANTS KC, LLC 1330 Burlington Street, Ste. 200 North Kansas City, MO 64116		 SECURITY GRW 801 CORPORATE DRIVE LEXINGTON, KY 40503		 MEP ENGINEER INSIGHT ENGINEERING, PLLC 201 S. CHESTER, SUITE B LITTLE ROCK, AR 72201		 STRUCTURAL ENGINEER BERNHARD TME BUILDING 2, 1 ALLIED DRIVE SUITE 260 LITTLE ROCK, AR 72202		A/E JohnsonDanforth & Associates 2200 N. RODNEY PARHAM ROAD SUITE 210 LITTLE ROCK, AR 72212 501-404-4811 jda@johnsondanforth.com LJDA PROJECT #: 2018.001						Approved: Project Director		Drawing Number	
								VA		U.S. Department of Veterans Affairs		FULLY SPRINKLERED		Location FAYETTEVILLE, AR		Drawing Number TY602	
												Issue Date 2022.07.15		Checked PJB		Drawn PJB	



- GENERAL NOTES:**
- REFER TO SPECIFICATION SECTION 28 16 00 INTRUSION DETECTION SYSTEM (IDS) FOR ADDITIONAL INFORMATION.
 - ACTUAL WIRING CONFIGURATION AND TYPE/SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY THE IDS MANUFACTURER/SUPPLIER WITHIN MINIMUM REQUIREMENTS STATED IN SPECIFICATIONS
 - IDS COMPONENTS SHOWN CONSTITUTE THE TYPE, PRODUCT QUALITY, MATERIAL AND DESIRED OPERATING FEATURES REQUIRED. THE IDS MANUFACTURER/SUPPLIER IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL SYSTEM.
 - CATEGORY 6A, UNSHIELDED TWISTED PAIR (UTP) WITH OVERALL WHITE JACKET. TERMINATE ALL ENDS WITH A RJ45 MODULAR PLUG USING THE TIA/EIA 568B COLOR CODING STANDARD.

1 **IDS RISER DIAGRAM**
NOT TO SCALE



- GENERAL NOTES:**
- REFER TO RISER DIAGRAMS ON SHEET TY601 THROUGH TY603 FOR ADDITIONAL REQUIREMENTS.
 - SSTV OPTICAL FIBER SHALL BE 6-STRAND SINGLEMODE (OS2) WITH YELLOW JACKET.
 - PACS OPTICAL FIBER SHALL BE 6-STRAND SINGLEMODE (OS2) WITH PURPLE JACKET.

2 **SECURITY LAN FUNCTIONAL SCHEMATIC**
NOT TO SCALE

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Engineering\Revit\Electrical\564-19-101_Fayetteville Water Storage_TY-CENTRAL-R22.rvt

CONSULTANTS			
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Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs
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Drawing Title SECURITY ELECTRONICS IDS RISER DIAGRAM
Approved: Project Director

Phase CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title CONSTRUCT NEW WATER STORAGE FACILITY		
Location FAYETTEVILLE, AR		
Issue Date 2022.07.15	Checked PJB	Drawn PJB

Project Number 564-19-101
Building Number
Drawing Number TY603