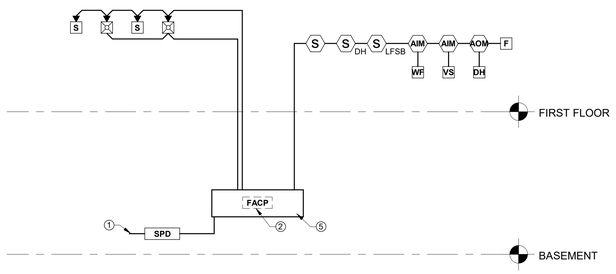
		OUTPUTS														
		NOTIFICATION												INTERFACE		
INPUTS		A ACTIVATE CLEAR STROBES THROUGHOUT BUILDING	B ACTIVATE PRE-RECORDED FIRE EVACUATION MESSAGE THROUGHOUT BUILDING	C DISPLAY ALARM CONDITION AT FIRE ALARM CONTROL UNIT	D DISPLAY ALARM CONDITION AT FIRE ALARM ANNUNCIATOR PANEL	E TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	F DISPLAY SUPERVISORY CONDITION AT FIRE ALARM CONTROL UNIT	G DISPLAY SUPERVISORY CONDITION AT FIRE ALARM ANNUNCIATOR PANEL	H TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	I DISPLAY TROUBLE CONDITION AT FIRE ALARM CONTROL UNIT	J DISPLAY TROUBLE CONDITION AT FIRE ALARM ANNUNCIATOR PANEL	K TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	L RELEASE MAGNETICALLY HELD DOORS	M ACTIVATE INDIVIDUAL ROOM SMOKE DETECTOR SOUNDER BASE	N SHUTDOWN ASSOCIATED AIR HANDLING UNIT	O ACTIVATE SPEAKERS THROUGHOUT BUILDING	P ACTIVATE STROBES THROUGHOUT BUILDING	
MANUAL PULL STATION	1	•	•	•	•	•							•			•	•	1
SPRINKLER WATERFLOW SWITCH	2	•	•	•	•	•							•			•	•	2
SMOKE DETECTOR - SPOT TYPE (OTHER THAN SPECIFIC DETECTORS BELOW)	3	•	•	•	•	•							•			•	•	3
RESIDENT ROOM SMOKE DETECTORS (ANY TYPE)	4						•	•	•					•				4
SMOKE DETECTOR - DUCT TYPE	5						•	•	•						•			5
VALVE SUPERVISORY SWITCH	6						•	•	•									6
FACU AC POWER FAILURE	7									•	•	•						7
FACU LOW BATTERY	8									•	•	•						8
OPEN CIRCUIT	9									•	•	•						9
GROUND FAULT	10									•	•	•						10
NOTIFICATION APPLIANCE CIRCUIT SHORT	11									•	•	•						11
ALL OTHER TROUBLES	12									•	•	•						12
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	

NOTE: THIS MATRIX IS ONLY INTENDED TO SHOW THE MAJOR SYSTEM FUNCTIONS, SYSTEM SHALL ALSO PERFORM INPUTS/OUTPUTS REQUIRED BY NFPA 72 AND THE PRODUCTS' LISTING.

1 FIRE ALARM INPUT/OUTPUT MATRIX
SCALE: NONE



NOTES:
1. TO DEDICATED 120VAC BRANCH CIRCUIT
2. EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL IS LOCATED IN BASEMENT EQUIPMENT ROOM A175B.
3. THIS RISER DIAGRAM IS INTENDED ONLY TO CAPTURE THE SYSTEM DESIGN INTENT, PANEL CONNECTIONS, AND GENERAL CIRCUIT ROUTING REQUIREMENTS. EXACT QUANTITIES AND TYPES OF DEVICES NECESSARY TO ACCOMPLISH THE DESIGN GOALS ARE NOT INDICATED. THE INTENT OF THIS RISER DIAGRAM IS TO INDICATE THE GENERAL SYSTEM CONFIGURATION AFTER SUCCESSFUL COMPLETION OF THE PROJECT.

2 FIRE ALARM RISER DIAGRAM
SCALE: NONE

FIRE ALARM GENERAL NOTES

GENERAL:
1. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL APPLICABLE DESIGN CRITERIA, THESE DRAWINGS, AND THE PROJECT SPECIFICATIONS FOR IMPORTANT QUALIFICATION, DEFINITION, SUBMITTAL, PRODUCT, INSTALLATION, AND TESTING REQUIREMENTS.
2. ALL SUBMITTALS, INSTALLATION, AND TESTING SHALL BE COMPLETED IN A NEAT, WORKMAN-LIKE MANNER.
3. PRODUCT, DESIGN, INSTALLATION, AND TESTING ALTERNATE APPROACHES AND/OR SUBSTITUTIONS WILL BE CONSIDERED BY THE ENGINEER IF THE CONTRACTOR PROVIDES WRITTEN, WELL-DOCUMENTED, ENGINEERING-BASED SUBSTANTIATION FOR PROPOSED ALTERNATIVE.

APPLICABLE CODES AND STANDARDS:
1. INTERNATIONAL BUILDING CODE (2018)
2. NFPA 70 NATIONAL ELECTRIC CODE (2017)
3. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2019)

AUDIBILITY DESIGN:
1. BECAUSE OF UNPREDICTABLE BACKGROUND NOISES AND PROJECT CONDITIONS, THE AUDIBILITY DESIGN GOALS SHALL BE CONFIRMED BY MEASUREMENT WITH CALIBRATED TEST EQUIPMENT. IF RESULTS INDICATE THAT ADDITIONAL NOTIFICATION APPLIANCES, THE CONTRACTOR SHALL ADD THEM AT NO ADDITIONAL COST.
2. THE EXPECTED AMBIENT SOUND PRESSURE LEVELS ARE AS FOLLOWS:
   A. OFFICES, RESTROOMS, RESIDENT ROOMS, CIRCULATION AREAS: 55 dBA
   B. MECHANICAL EQUIPMENT AREAS: 85 dBA
3. THE DESIGN GOAL IS FOR THE ALERT TONE PRECEDING THE VOICE MESSAGE TO REACH THE FOLLOWING SOUND PRESSURE LEVELS (PUBLIC MODE):
   A. OFFICES, RESTROOMS, RESIDENT ROOMS, CIRCULATION AREAS: 70 dBA
   B. MECHANICAL EQUIPMENT AREAS: 100 dBA
4. SPEAKERS MAY BE FIELD-LOCATED WITHIN 6 FT OF THE LOCATION INDICATED ON THE APPROVED DESIGN WITHOUT CONSULTING THE ENGINEER.

VISUAL NOTIFICATION DESIGN:
1. CLEAR STROBES SHALL BE PROVIDED WHERE INDICATED ON THE APPROVED DESIGN.
2. STROBES MAY BE FIELD-LOCATED WITHIN 3 FT OF THE LOCATION INDICATED ON THE APPROVED DESIGN WITHOUT CONSULTING THE ENGINEER. CONSULT WITH ENGINEER PRIOR TO RELOCATING STROBES MORE THAN 3 FT.

INITIATING DEVICES:
1. INITIATING DEVICES MAY BE FIELD-LOCATED WITHIN 3 FT OF THE LOCATION INDICATED ON THE APPROVED DESIGN WITHOUT CONSULTING THE ENGINEER. CONSULT WITH ENGINEER PRIOR TO RELOCATING INITIATING DEVICES MORE THAN 3 FT.

CIRCUITS AND CONDUIT:
1. ALL CIRCUITS SHALL BE PROVIDED IN CONDUIT IN ACCORDANCE WITH NFPA 70 AND THE CONDUIT LISTING.
2. NEW SIGNALING LINE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE ARRANGED SO THAT A SINGLE FAULT DOES NOT CAUSE THE LOSS OF ADDRESSABLE DEVICES ON MORE THAN ONE SMOKE COMPARTMENT.

INSTALLATION:
1. ALL EQUIPMENT SHALL BE INSTALLED TIGHT TO THE BUILDING STRUCTURE AND SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL NOT APPRECIABLY DEVIATE FROM THE APPROVED DESIGN WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

TESTING:
1. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PERFORM ALL ACCEPTANCE TESTING IN ACCORDANCE WITH THE APPLICABLE DESIGN CRITERIA AND THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
2. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PERFORM TESTING AND PROVIDE DOCUMENTATION PRIOR TO REQUESTING ENGINEER'S PRESENCE TO WITNESS TESTING.

FIRE ALARM LEGEND

FACP	EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL
SPD	SURGE PROTECTIVE DEVICE
F	FIRE ALARM PULL STATION
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
WF	WATERFLOW SWITCH
VS	VALVE SUPERVISORY SWITCH
	WALL MOUNTED STROBE
DH	DOOR HOLDERS
S	SPEAKER
S	SPEAKER STROBE
S	SMOKE DETECTOR - SPOT TYPE
	SYMBOL MODIFIERS
C	CEILING MOUNTED
*n*cd	CANDELA RATING
*n*W	WATT TAP
LF	LOW FREQUENCY SPEAKER
LFSB	LOW FREQUENCY SOUNDER BASE
DH	DOOR HOLD RELEASE
WP	WEATHER PROOF

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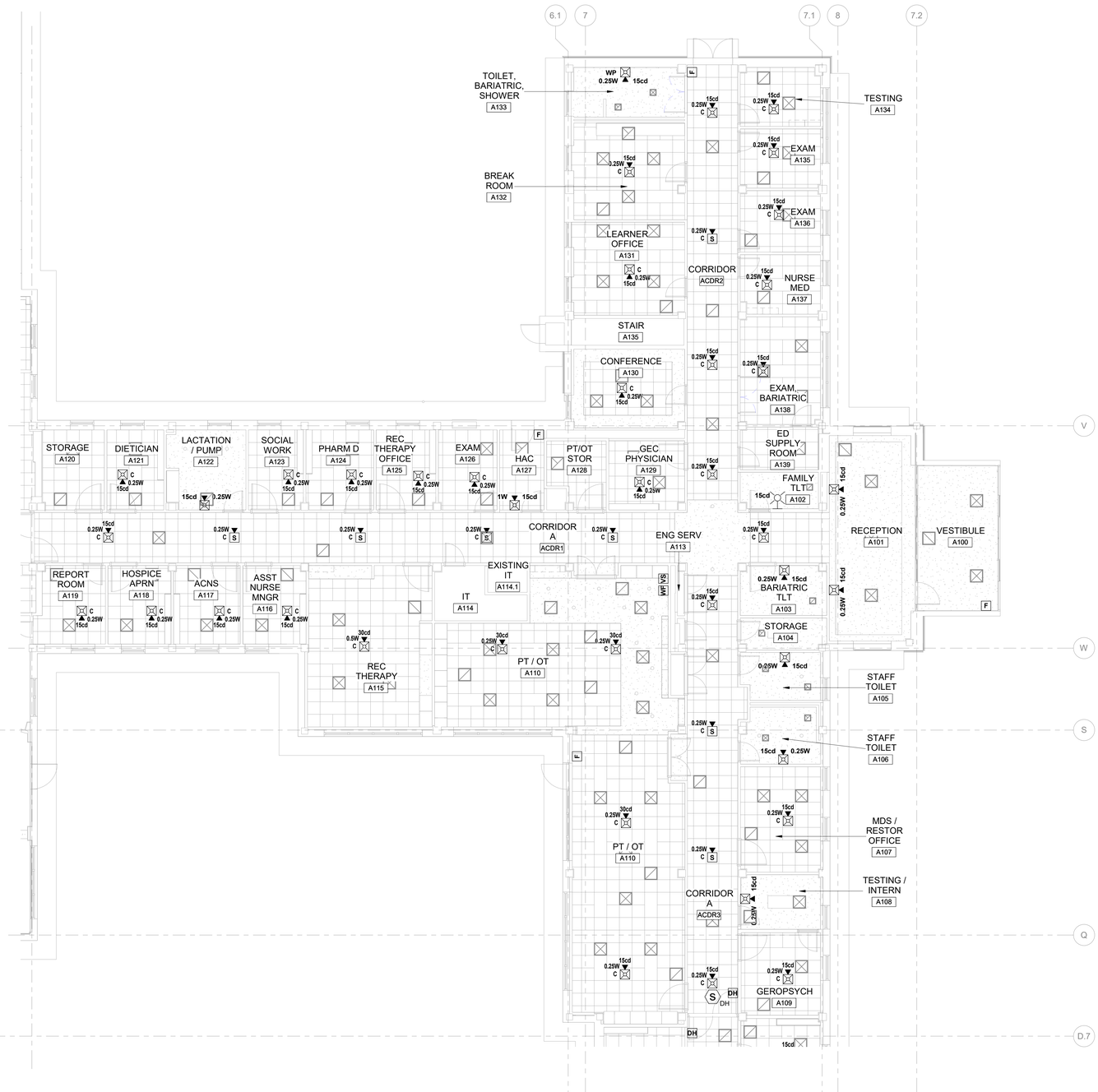
KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

Office of Construction and Facilities Management

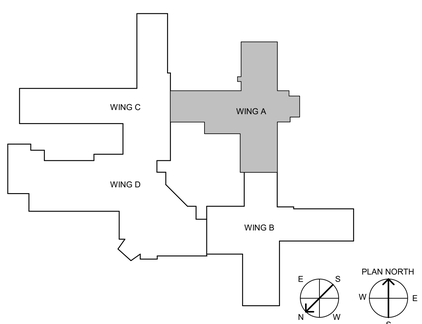
VA U.S. Department of Veteran Affairs

SHEET TITLE: FIRE ALARM GENERAL NOTES, LEGEND AND MATRIX
APPROVED: PROJECT DIRECTOR
PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED
PROJECT TITLE: RENOVATE A & B WING BLDG 6
PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622
DATE: 07/10/2019
CHECKED BY: KAB
DRAWN BY: SAB
VA PROJECT NUMBER: 589A5-19-116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-FA001
Dwg. 50 OF 160

VA FORM 08-6231



1 FIRE ALARM FLOOR PLAN - WING A
SCALE = 1/8" = 1'-0"



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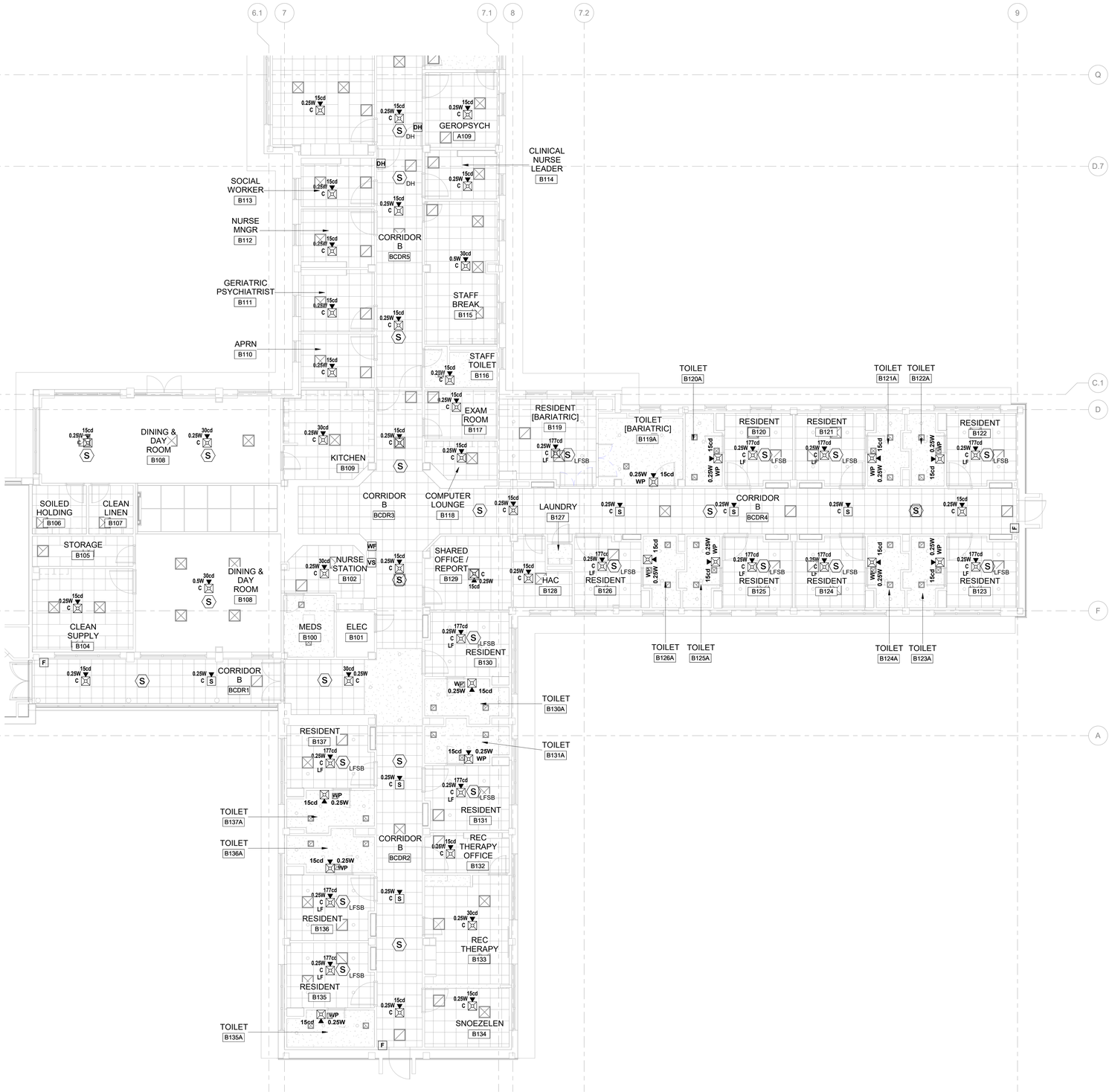
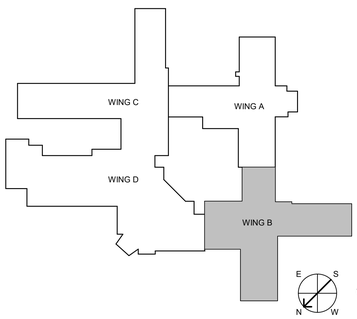
VA U.S. Department of Veteran Affairs

SHEET TITLE: FIRE ALARM FLOOR PLAN - WING A
APPROVED: PROJECT DIRECTOR
PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED
PROJECT TITLE: RENOVATE A & B WING BLDG 6
PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622
VA PROJECT NUMBER: 589A5·19·116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-FA101
DATE: 07/10/2019
CHECKED BY: KAB
DRAWN BY: SAB
Dwg. 51 OF 160

VA FORM 08-6231



1 FIRE ALARM FLOOR PLAN - WING B
SCALE = 1/8" = 1'-0"



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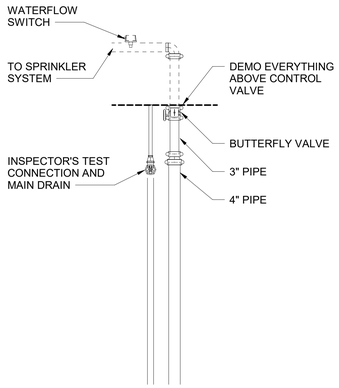
SHEET TITLE: FIRE ALARM FLOOR PLAN - WING B
APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED

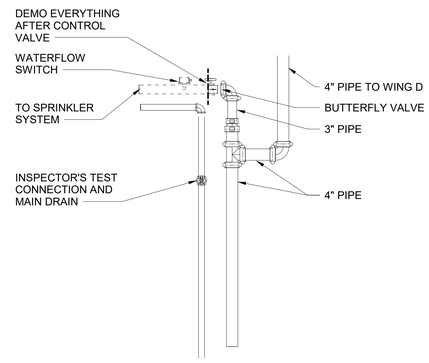
PROJECT TITLE: RENOVATE A & B WING BLDG 6
PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622
DATE: 07/10/2019
CHECKED BY: KAB
DRAWN BY: SAB

VA PROJECT NUMBER: 589A5-19-116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-FA102
Dwg. 52 OF 160

VA FORM 08-6231



1,3 EXISTING SPRINKLER RISER ROOM A110
SCALE = 1/2" = 1'-0"



2,4 EXISTING SPRINKLER RISER ROOM B102
SCALE = 1/2" = 1'-0"

3 NEW SPRINKLER RISER ROOM A110
SCALE = 1/2" = 1'-0"

4 NEW SPRINKLER RISER ROOM B102
SCALE = 1/2" = 1'-0"

FIRE SUPPRESSION GENERAL NOTES

1. THE DESIGN AND INSTALLATION OF THE FIRE PROTECTION, FIRE SUPPRESSION SYSTEM MUST BE IN ACCORDANCE WITH U.S. DEPARTMENT OF VETERANS AFFAIRS FIRE PROTECTION DESIGN MANUAL, SEVENTH EDITION, DECEMBER 2015; NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION; AND NFPA 291: RECOMMENDED PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS, 2019 EDITION.
2. THIS INFORMATION HAS BEEN PREPARED TO PROVIDE GUIDANCE FOR BIDDING. THE CONTRACTOR SHALL BE THE ENGINEER OF RECORD. THE FIRE PROTECTION CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY OPERABLE SYSTEM WHICH SHALL BE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS. THE WORK THAT IS INDICATED IN THIS DOCUMENT IS AN OVERVIEW OF THE PROJECT, INTENDED TO ESTABLISH THE MINIMUM SCOPE REQUIREMENTS FOR THE PROJECT AS WELL AS THE CONTRACTOR'S RESPONSIBILITIES. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKING DRAWINGS, EQUIPMENT, AND CALCULATIONS TO THE OWNER'S REPRESENTATIVE AND AHJ FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION WITH THEIR ENGINEERS SEAL.
3. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, MEASUREMENTS AND LOCATIONS OF EXISTING FACILITIES, UTILITIES, EQUIPMENT AND OTHER EXISTING CONDITIONS WHICH MAY AFFECT CONSTRUCTION. BASE CIVIL ENGINEERING HAS MADE EVERY ATTEMPT TO VERIFY THIS INFORMATION. HOWEVER, IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS, CONTACT THE CONTRACTING OFFICER IMMEDIATELY.
4. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, SPRINKLERS, TEST POINTS, ETC., WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTIONS TO SPRINKLER DISCHARGE SHALL BE CONSIDERED DURING INSTALLATION. DO NOT INSTALL SPRINKLER PIPING BELOW EQUIPMENT OR WITHIN CLEARANCE SPACES FOR MECHANICAL AND ELECTRICAL EQUIPMENT. SPRINKLERS SHALL BE INSTALLED UNDER OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.
5. THE SPRINKLER SYSTEM MUST BE ZONED BY SMOKE COMPARTMENT. THE SPRINKLER RISER LOCATED IN WING A MUST ONLY FEED WING A AND THE SPRINKLER RISER LOCATED IN WING B MUST ONLY FEED WING B.
6. THE EXISTING 4-INCH FEED MAIN THAT SUPPLIES WING D MUST REMAIN IN SERVICE DURING THIS CONSTRUCTION PROJECT.
7. MATERIALS AND ACCESSORIES NECESSARY MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NFPA CODES AND STANDARDS, PROJECT SPECIFICATIONS, AND BE UL LISTED OR FM APPROVED FOR FIRE PROTECTION USE, UNLESS OTHERWISE NOTED.
8. ALL VALVES INSIDE TO BE PROVIDED WITH ELECTRONIC TAMPER SWITCHES WIRED TO THE FACU. VALVES IN NORMAL CLOSED POSITION SHALL BE PROVIDED WITH TAMPER TO ACTIVATE IN THREE TURNS OR LESS. ALL VALVES OUTSIDE TO BE SUPERVISED WITH LOCK AND CHAIN.
9. ALL HANGERS MUST BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND PROJECT SPECIFICATIONS.
10. LOCATION AND INSTALLATION OF PIPE SUPPORTS (HANGERS, VERTICAL RESTRAINTS, AND GUIDES) SHALL MEET THE REQUIREMENTS OF NFPA 13 AND THE SPECIAL LISTING REQUIREMENTS (IF APPLICABLE) OF THE PIPE AND SUPPORTS.
11. THE INSPECTOR'S TEST VALVES MUST BE LOCATED NO MORE THAN 7 FEET AFF.
12. APPLICABLE UL CONSTRUCTION DETAILS AND SYSTEMS SHALL BE USED WHERE FIRE RATED BARRIERS ARE PENETRATED BY SPRINKLER PIPING.
13. ALL VALVES (DRAINS, INSPECTOR'S TEST, CONTROL) MUST BE IDENTIFIED AS REQUIRED BY NFPA 13.
14. PIPING MUST BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS MUST BE PROVIDED AT THE END OF ALL CROSS MAINS.
15. ALL PENDENT SPRINKLERS MUST BE INSTALLED IN THE CENTER OF THE CEILING TILES.
16. DRAINS MUST BE LOCATED TO PROVIDE DRAINAGE IN ACCORDANCE WITH NFPA 13. ALL DRAINS AND TEST CONNECTIONS MUST DISCHARGE TO THE EXTERIOR OF THE BUILDING ON TO A SPLASH BLOCK OR PAVEMENT, AND SHALL NOT DISCHARGE ACROSS PATHS OF EGRESS.
17. ALL SPRINKLER SYSTEM ALARM INITIATING AND SUPERVISORY DEVICES MUST BE CONNECTED TO THE FIRE ALARM SYSTEM.
18. ADDITIONAL SPRINKLERS MAY BE REQUIRED UNDER DUCT WORK TO PROVIDE ADEQUATE COVERAGE PER NFPA 13.
19. A LISTED RELIEF VALVE MUST BE PROVIDED IN ACCORDANCE WITH NFPA 13, SECTION 8.1.2 FOR THE SPRINKLER SYSTEM.
20. AN AIR VENT MUST BE PROVIDED IN ACCORDANCE WITH NFPA 13, SECTION 8.1.5 AND SECTION 16.7 FOR THE SPRINKLER SYSTEM.
21. THIS BUILDING WILL HAVE A WET PIPE AUTOMATIC SPRINKLER SYSTEM WHICH WILL REQUIRE ALL AREAS OF THE BUILDING TO BE MAINTAINED ABOVE 40 DEGREES F.
22. PROVIDE SPRINKLER PROTECTION WITHIN ALL COMBUSTIBLE CONCEALED SPACES.
23. DEMOLISH THE SPRINKLER SYSTEM IN ALL AREAS OF WING A AND B FROM THE SPRINKLERS BACK TO THE SPRINKLER RISER BUTTERFLY VALVES. ALL DEMOLISHED EQUIPMENT AND MATERIALS MUST BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
24. INSTALL NEW CHECK VALVES, WATERFLOW SWITCHES, AND INSPECTOR'S TEST CONNECTIONS WITH PRESSURE RELIEF VALVE.

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07/10/2019

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Revision #	Date

CONSULTANT INFORMATION

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KS ENGR REG. NO. E-2586, EXP. 12/31/2019

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: FIRE SUPPRESSION GENERAL NOTES	PROJECT PHASE: BID DOCUMENTS
APPROVED: PROJECT DIRECTOR	FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BLDG 6		VA PROJECT NUMBER: 589A5-19-116
PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622		BUILDING NUMBER: 6
DATE: 07/10/2019	CHECKED BY: KAB	DRAWN BY: DRF
		DRAWING NUMBER: 6-FX001 Dwg. 53 OF 160

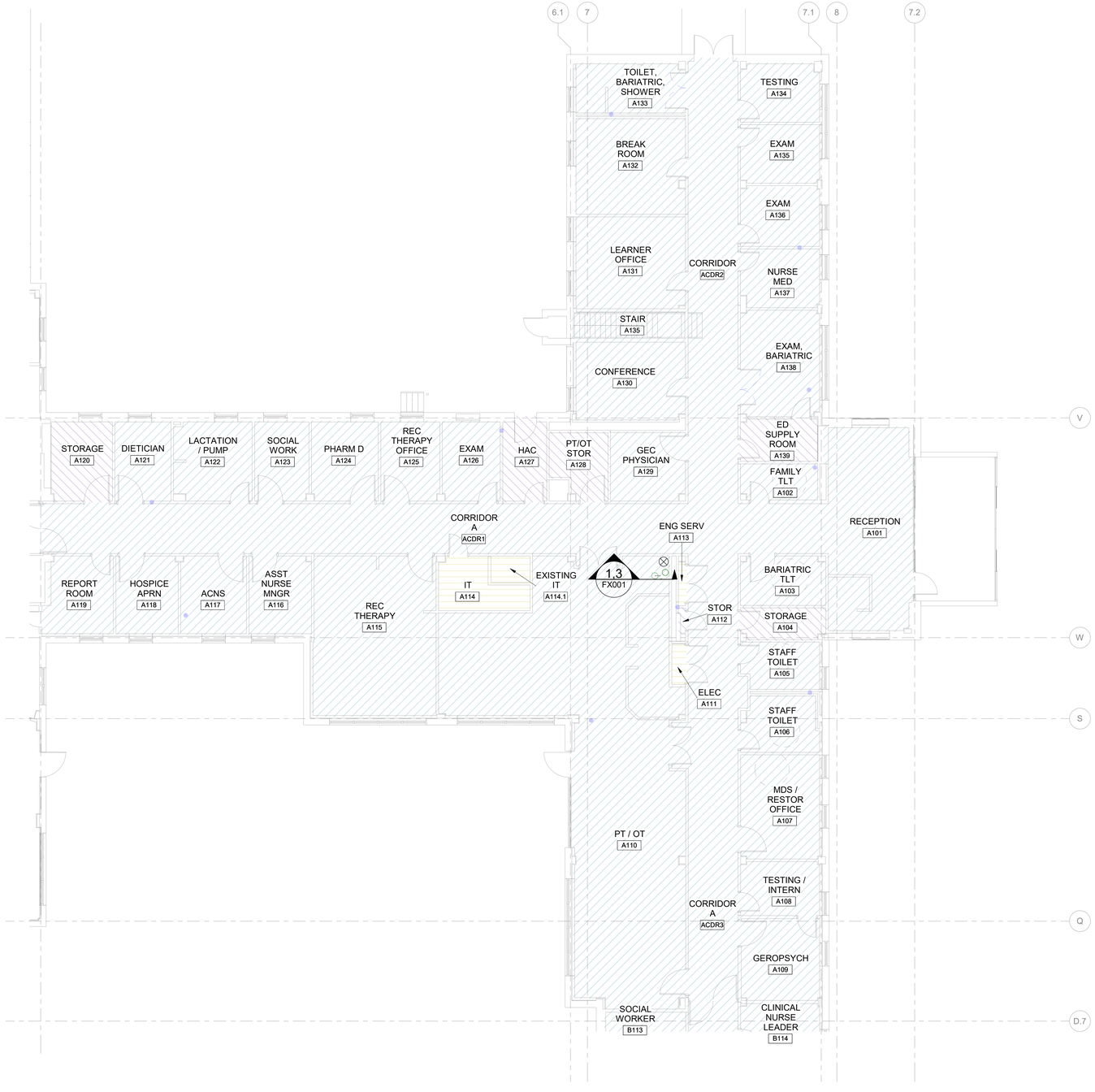
VA FORM 08-6231

HAZARD CLASSIFICATION LEGEND

	LIGHT HAZARD (0.10 GPM/FT² OVER 1,500 FT² WITH 100 GPM EXTERIOR HOSE DEMAND)
	ORDINARY HAZARD GROUP 1 (0.15 GPM/FT² OVER 1,500 FT² WITH 250 GPM EXTERIOR HOSE DEMAND)
	ORDINARY HAZARD GROUP 2 (0.20 GPM/FT² OVER 1,500 FT² WITH 250 GPM EXTERIOR HOSE DEMAND)

FIRE SUPPRESSION LEGEND

⊗	EXISTING FIRE SUPPRESSION RISER



1 FIRE SUPPRESSION HAZARD CLASSIFICATION FLOOR PLAN - WING A
SCALE = 1/8" = 1'-0"

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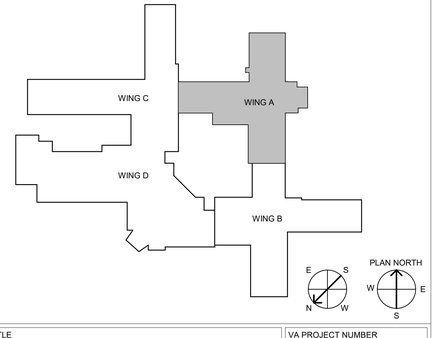

Revision #	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: FIRE SUPPRESSION HAZARD CLASSIFICATION FLOOR PLAN - WING A

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BLDG 6

PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: KAB | DRAWN BY: DRF

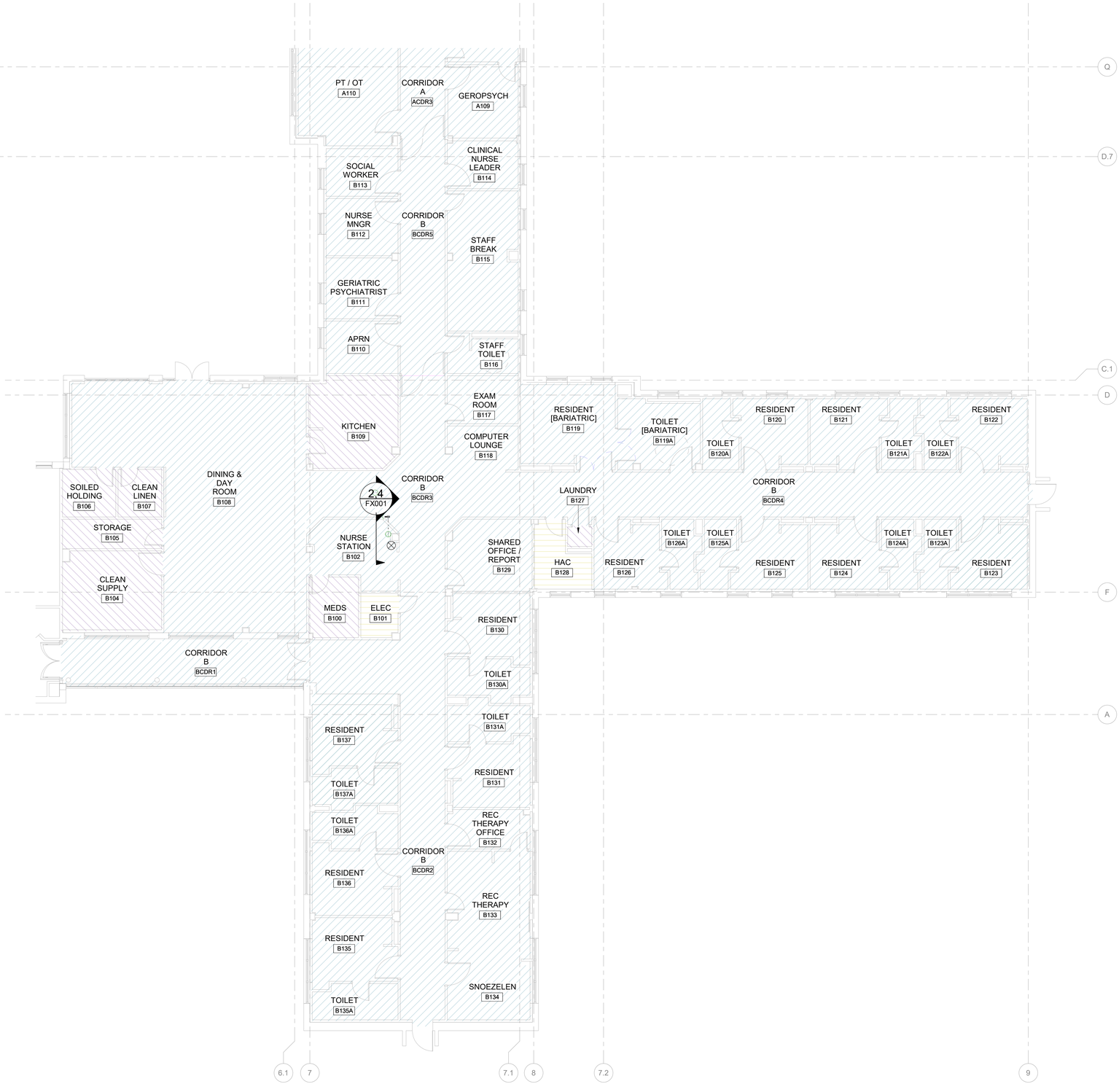
VA PROJECT NUMBER: 589A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-FX101

Dwg. 54 OF 160

VA FORM 08-6231



HAZARD CLASSIFICATION LEGEND

	LIGHT HAZARD (0.10 GPM/FT² OVER 1,500 FT² WITH 100 GPM EXTERIOR HOSE DEMAND)
	ORDINARY HAZARD GROUP 1 (0.15 GPM/FT² OVER 1,500 FT² WITH 250 GPM EXTERIOR HOSE DEMAND)
	ORDINARY HAZARD GROUP 2 (0.20 GPM/FT² OVER 1,500 FT² WITH 250 GPM EXTERIOR HOSE DEMAND)

FIRE SUPPRESSION LEGEND

⊗	EXISTING FIRE SUPPRESSION RISER

1 FIRE SUPPRESSION HAZARD CLASSIFICATION FLOOR PLAN - WING B

SCALE = 1/8" = 1'-0"

KEVIN BOYER LICENSED 13506 PROFESSIONAL ENGINEER KANSAS

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19910 West 161st Street
Olathe, KS 66062
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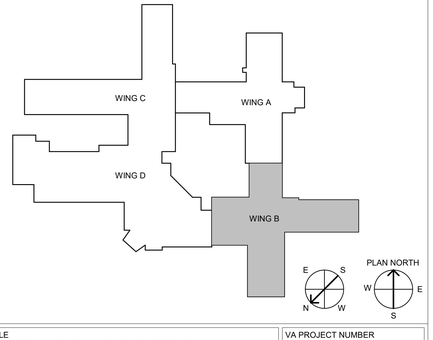
913.829.8650 office ▲ 913.829.8690 fax



Revision #	Date

CONSULTANT INFORMATION

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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: FIRE SUPPRESSION HAZARD CLASSIFICATION FLOOR PLAN - WING B

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BLDG 6

PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: KAB | DRAWN BY: DRF

VA PROJECT NUMBER: 589A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-FX102

Dwg. 55 OF 160

VA FORM 08-6231

ABBREVIATIONS

A

A/E ARCHITECT / ENGINEER
AD AREA DRAIN/ACCESS DOOR
AFF ABOVE FINISH FLOOR
AFG ABOVE FINISH GRADE
AG AIR GAP
AP ACCESS PANEL
AS AUTOMATIC SPRINKLER
ASD ADJUSTABLE SPEED DRIVES
ASD AUTOMATIC SPRINKLER DRAIN
ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME AMERICAN SOCIETY OF ECHANICAL ENGINEERS
ASPE AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASR AUTOMATIC SPRINKLER RISER
AV ACID VENT
AW ACID WASTE

B

BFP REDUCED PRESSURE BACKFLOW PREVENTER
BHP BREAK HORSEPOWER
BSP BLACK STEEL PIPE
BT BATHTUB
BTU BRITISH THERMAL UNIT
BTUH BRITISH THERMAL UNIT PER HOUR

C

C CELSIUS
CA COMPRESSED AIR
CGA COMPRESSED GAS ASSOCIATION
CFM CUBIC FEET PER MINUTE
CI CAST IRON
CO CLEANOUT
CS CLINICAL SINK
CV CONTROL VALVE

D

DCW DOMESTIC COLD WATER
DFU DRAINAGE FIXTURE UNITS
DHW DOMESTIC HOT WATER
DHWR DOMESTIC HOT WATER RETURN
DHWS DOMESTIC HOT WATER SUPPLY
DI DEIONIZED WATER
DN DOWN
DOE DEPARTMENT OF ENERGY
DS DOWNSPOUT
DW DISHWASHER
DWG DRAWING
DWH DOMESTIC WATER HEATER
DWR DRINKING WATER RETURN
DWS DRINKING WATER SUPPLY
DWV DRAIN WASTE VENT

E

EL ELEVATION
EMCS ENERGY MONOSERRAT AND CENTRAL SYSTEM
EPA ENVIROMENTAL PROTECTION AGENCY
EPACT ENERGY POLICY ACT
ESC ESCUTCHEON
ESH EMERGENCY SHOWER
ET EXPANSION TANK
ETR EXISTING TO REMAIN
EWH ELECTRIC WATER HEATER
EWS EYE WASH STATION
EWS/SH EYE WASH/DRENCH SHOWER
EX EXISTING

F

F FAHRENHEIT
FCO FLOOR CLEANOUT
FCW FILTERED COLD WATER
FD FLOOR DRAIN
FDC FIRE DEPARTMENT (HOSE) CONNECTION
FFA FROM FLOOR ABOVE
FFB FROM FLOOR BELOW
FM FLOW METER
FOP FUEL OIL PUMP
FOR FUEL OIL RETURN
FOS FUEL OIL SUPPLY
FOV FUEL OIL VENT
FS FLOOR SINK
FS FLOW SWITCH
FU FIXTURE UNITS

G

GAL GALLON
GCO GRADE CLEANOUTS
GPD GALLONS PER DAY
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
GPR GAS PRESSURE REGULATOR
GRS GAS REGULATOR STATION
GT GREASE TRAP
GVTR GAS VENT THROUGH ROOF
GWH GAS FIRED WATER HEATER

H

H&CW HOT AND COLD WATER
HB HOSE BIBB
HD HUB DRAIN
HEX HEAT EXCHANGER
HP HORSEPOWER
HS HAND SINK
HST HOT WATER STORAGE TANK (DOMESTIC)
HWB HOT WATER BOILER
HWCP HOT WATER CIRCULATING PUMP
HWP HOT WATER PUMP
HYD HYDRANT

I

ID INSIDE DIAMETER
IE INVERT ELEVATION
ICW INDUSTRIAL COLD WATER
IHW INDUSTRIAL HOT WATER
INV INVERT
IPC INTERNATIONAL PLUMBING CODE
IRW IRRIGATION WATER
IW INDIRECT WASTE
IWH INSTANTANEOUS WATER HEATER
IWR INDUSTRIAL WATER RETURN
IWS INDUSTRIAL WATER SUPPLY

K

KW KILOWATT
KWH KILOWATT-HOUR

L

L/S LITER PER SECOND
LA LABORATORY AIR
LAV LAVATORY
LBS/HR POUNDS PER HOUR
LCW LABORATORY COLD WATER
LHW LABORATORY HOT WATER
LNG LIQUID NATURAL GAS
LOX LIQUID OXYGEN
LV LABORATORY VACUUM
LW LOW WATER

M

M METER
MA MEDICAL AIR
MAV MANUAL AIR VENT
MBH 1000 BTUH
MED MEDICAL
MER MECHANICAL EQUIPMENT ROOM
MH MANHOLE
MOU MEMORANDUM OF UNDERSTADING
MSB MOP SERVICE BASIN
MV MEDICAL VACUUM

N

N2 NITROGEN
N20 NITROUS OXIDE
NC NORMALLY CLOSED
NG NATURAL GAS
NIC NOT IN CONTRACT
NO NORMALLY OPEN
NOM NOMINAL
NPW NON POTABLE WATER
NTS NOT TO SCALE

O

O OXYGEN
OC ON CENTER
OD OUTSIDE DIAMETER
OFD OVERFLOW DRAIN
OR OPERATING ROOM
OVFL OVERFLOW

P

PA PASCAL
PD PRESSURE DROP OR DIFFERENCE
PDI PLUMBING AND DRAINAGE INSTITUTE
PG PRESSURE GAGE
PP PLUMBING PUMP
PPM PARTS PER MILLION
PRS PRESSURE REDUCING STATION
PRV PRESSURE REDUCING VALVE
PSI POUNDS PER SQUARE INCH
PSIA POUNDS PER SQUARE INCH ATMOSPHERE
PSIG POUNDS PER SQUARE INCH GAGE
PTRV PRESSURE TEMPERATURE RELIEF VALVE
PW POTABLE WATER

R

RD ROOF DRAIN
RDL ROOF DRAIN LEADER
RL ROOF LEADER
RP RECIRCULATION PUMP
RO REVERSE OSMOSIS WATER
RWL RAIN WATER LEADER

S

SAN SANITARY SEWER
SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SCFM STANDARD CUBIC FOOT/MINUTE
SCW SOFTENED COLD WATER
SDMH STORM DRAIN MANHOLE
SMH SANITARY MANHOLE
SP SUMP PUMP
SPR SPRINKLER LINE
SQFT/SF SQUARE FEET
SS STAINLESS STEEL
ST STORAGE TANK
SW STORM WATER

T

TCV TEMPERATURE CONTROL VALVE
TD TEMPERATURE DIFFERENCE
TD TRENCH DRAIN
TDH TOTAL DYNAMIC HEAD
TEMP TEMPERATURE
TFA TO FLOOR ABOVE
TFB TO FLOOR BELOW
TMV THERMOSTATIC MIXING VALVE
TP TRAP PRIMER
TSTAT THERMOSTAT
TWR TEMPERED WATER RETURN
TWS TEMPERED WATER SUPPLY
TYP TYPICAL

V

V VENT
VAC VACUUM
VB VACUUM BREAKER
VCO VACUUM CLEANER OUTLET
VP VACUUM PUMP
VS VENT STACK
VSD VARIABLE SPEED DRIVE
VTR VENT THROUGH ROOF

W

W WASTE
WC WATER CLOSET
WCO WALL CLEANOUT
WG WATER GAGE
WH WALL HYDRANT
WH WATER HEATER
WHA WATER HAMMER ARRESTER
WL WATER LINE
WM WATER METER
WPD WATER PRESSURE DROP
WS WASTE STACK
WSFU WATER SUPPLY FIXTURE UNITS

Y

YCO YARD CLEANOUT
YH YARD HYDRANT

GENERAL PLUMBING SYMBOLS

CLEANOUTS

- CO — CLEANOUT
- DOUBLE EXTERIOR CLEANOUT (ECO)
- EXTERIOR CLEANOUT (ECO)
- FCO — FLOOR CLEANOUT (FCO)
- WALL CLEANOUT (WCO)

DRAINS AND TRAPS

- FLOOR SINK (FS), SIZE & TYPE
- FLOOR DRAIN (FD), SIZE & TYPE
- ROOF DRAIN (RD), SIZE & TYPE
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
- FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES

EQUIPMENT

- BACKFLOW PREVENTER
- PRESSURE GAUGE
- RECIRCULATION PUMP
- THERMOMETER
- WATER METER
- NONFREEZE WALL HYDRANT (NW)
- HOSE BIBB (HB)

FITTINGS AND ACCESSORIES

- ANCHOR
- CAP
- CONNECTION - BOTTOM, 45° OR 90°
- CONNECTION - SIDE
- CONNECTION - TOP, 45° OR 90°
- DIRECTION OF FLOW
- DIRECTION OF PIPE PITCH (DOWN)
- ECCENTRIC REDUCER
- ELBOW UP
- ELBOW DOWN
- ELBOW UP WITH SHUT-OFF VALVE (SOV)
- ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
- FLANGE CONNECTION
- REDUCER
- RISE OR DROP IN PIPE
- STRAINER
- TEE UP
- TEE DOWN
- TEE UP WITH SHUT-OFF VALVE (SOV)
- TEE DOWN WITH SHUT-OFF VALVE (SOV)
- UNION

VALVE SYMBOLS

- ANGLE GLOBE VALVE
- AUTOMATIC AIR VENT
- AUTOMATIC FLOW CONTROL VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GATE VALVE WITH 3/4 " HOSE ADAPTER
- GLOBE VALVE
- MANUAL AIR VENT
- MODULATING CONTROL VALVE
- PRESSURE REDUCING VALVE
- PRESSURE REGULATING VALVE
- PRESSURE RELIEF VALVE
- TEST PLUG (PRESSURE/TEMPERATURE)
- THERMOSTATIC MIXING VALVE
- THREE-WAY MODULATING CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- TWO POSITION CONTROL VALVE

ANNOTATION

- BUILDING NO. WHERE EQUIPMENT IS LOCATED.
- 26-P 3 — EQUIPMENT ABBREVIATION (PUMP)
- PUMP NO.3 IN BUILDING NO.26
- TYPICAL UNIT NO.
- (1) PLUMBING PLAN NOTE CALL OUT
- (1) MECHANICAL OR FIRE SPRINKLER PLAN NOTE CALL OUT
- 1 ELECTRICAL OR FIRE ALARM PLAN NOTE CALL OUT
- (1) TECHNOLOGY PLAN NOTE CALL OUT
- 1 OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT DESIGNATION
- XX-1 PLUMBING EQUIPMENT DESIGNATION
- XX / 1 MECHANICAL EQUIPMENT DESIGNATION TAG
- 1 / X100 DETAIL NUMBER / SHEET NUMBER
- 1 / X100 SECTION NUMBER / SHEET NUMBER
- NEW WORK TO EXISTING WORK CONNECTION POINT
- LIMIT OF DEMOLITION
- ETR EXISTING TO REMAIN

PIPING SYMBOLS

EXISTING PIPING

- EXISTING PIPING TO BE REMOVED
- EXISTING PIPING TO REMAIN

FUEL

- FOD — FUEL OIL DISCHARGE
- FOS — FUEL OIL SUPPLY (FOS)
- FOR — FUEL OIL RETURN (FOR)
- FOV — FUEL OIL VENT (FOV)
- LPG — LIQUIFIED PETROLEUM GAS (LPG)
- MPG — MEDIUM PRESSURE NATURAL GAS (MPG)
- MPG — MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
- G — NATURAL GAS (G)
- G — NATURAL GAS BELOW GRADE (G)

DENTAL

- IA — INDUSTRIAL AIR
- LA — LABORATORY AIR
- LV — LABORATORY VACUUM
- OA — ORAL EVACUATION

MEDICAL GASES

- CO — CARBON DIOXIDE (CO)
- CA — COMPRESSED AIR (CA)
- AI — MEDICAL AIR INTAKE (AI)
- MA — MEDICAL AIR (MA)
- MV — MEDICAL VACUUM (MV)
- VE — MEDICAL VACUUM EXHAUST (VE)
- N — NITROGEN (N)
- NO — NITROUS OXIDE (NO)
- O — OXYGEN (O)
- MEDICAL GAS OUTLET (TYPE)

STORM

- OST — OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
- ST — STORM DRAIN - ABOVE FLOOR (ST)
- ST — STORM DRAIN - BELOW FLOOR (ST)
- SPD — SUMP OR SEWAGE PUMP DISCHARGE (SPD)

WASTE

- AW — ACID WASTE - ABOVE FLOOR (AW)
- AW — ACID WASTE - BELOW FLOOR (AW)
- AV — ACID VENT (AV)
- ACD — AUXILIARY CONDENSATE DRAIN (ACD)
- CD — CONDENSATE DRAIN (CD)
- EV — EVACUATION (EV)
- ID — INDIRECT DRAIN (ID)
- GW — GREASE WASTE - ABOVE FLOOR (GW)
- GW — GREASE WASTE - BELOW FLOOR (GW)
- S — SOIL PIPING - ABOVE FLOOR (S)
- S — SOIL PIPING - BELOW FLOOR (S)
- T — TRAP PRIMER LINE (T)
- T — TRAP PRIMER LINE - BELOW SLAB (T)
- VBF — VENT BELOW FLOOR (VBF)
- VBG — VENT BELOW GRADE (VBG)
- V — VENT PIPING (V)
- W — WASTE PIPING - ABOVE FLOOR (W)
- W — WASTE PIPING - BELOW FLOOR (W)

WATER

- 140° — 140° DOMESTIC HOT WATER (140°)
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RECIRC.
- FCW — FILTERED COLD WATER
- FP — FIRE PROTECTION (FP)
- NPW — NON POTABLE WATER (NPW)
- SCW — SOFTENED COLD WATER (SCW)
- TWS — TEMPERED WATER SUPPLY
- TWR — TEMPERED WATER RETURN
- WS — WATER SERVICE (WS)

GENERAL EQUIPMENT

- BATHTUB
- SHOWER
- SHOWER HEADS
- TANK TYPE WATER CLOSET
- FLOOR MOUNTED FLUSH VALVE WATER CLOSET
- WALL MOUNTED FLUSH VALVE WATER CLOSET
- URINAL
- COUNTER TOP LAVATORY & TYPE
- WALL MOUNTED LAVATORY & TYPE
- DRINKING FOUNTAIN & TYPE
- JANITORS SINK
- JANITORS SINK - CORNER
- SINK & TYPE

Revision #	Date

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JOHN E. SOMMERS — LICENSED — 22152 — KANSAS — PROFESSIONAL ENGINEER — 7/10/2019

Office of Construction and Facilities Management

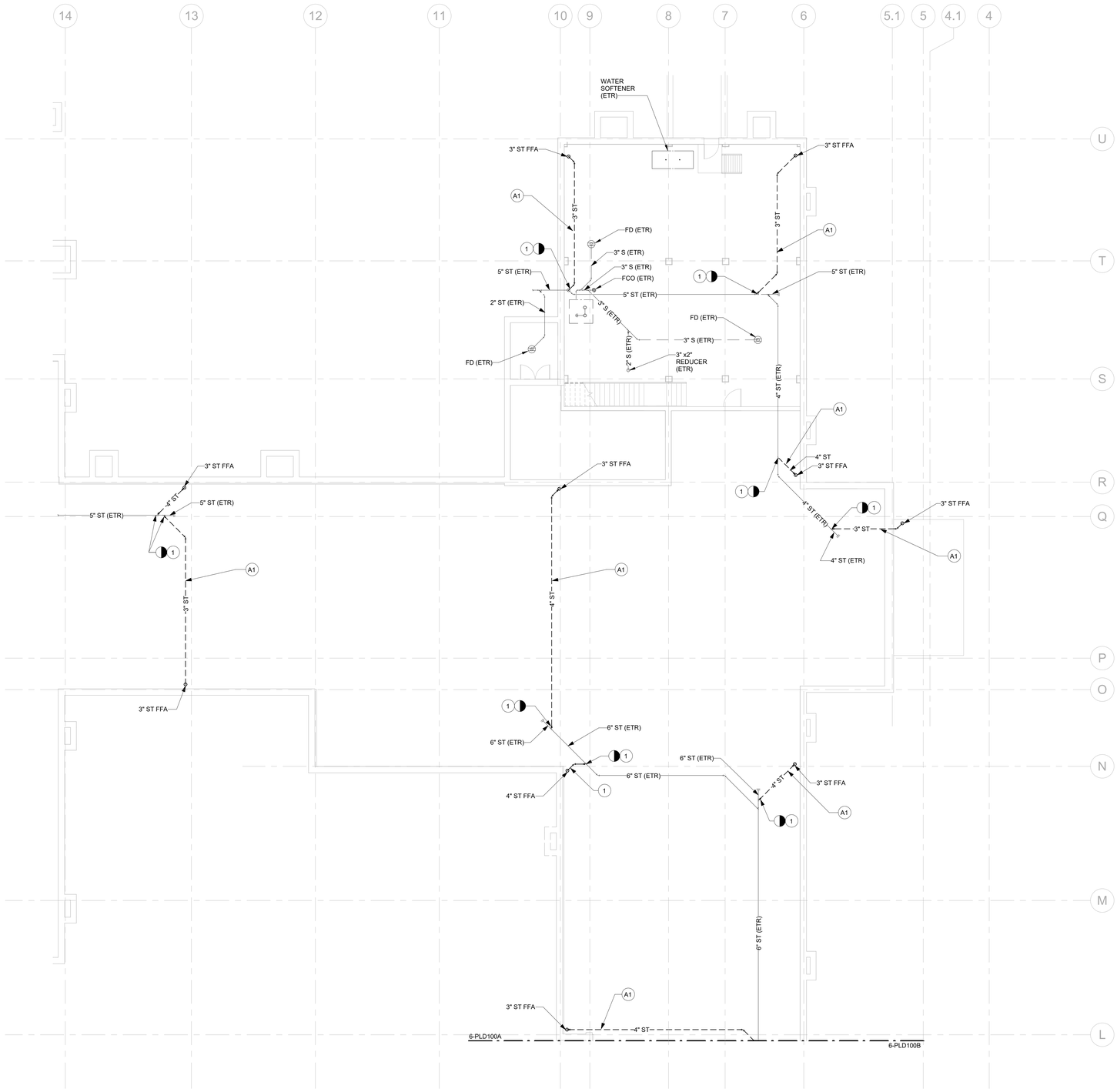
VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING LEGEND
APPROVED: PROJECT DIRECTOR
PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6
PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622
DATE: 07/10/2019
CHECKED BY: JES
DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-P-000
Dwg. 56 OF 160

VA FORM 08-6231



1 PLUMBING WASTE DEMO PLAN - BASEMENT WING A FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.
6. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.
7. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

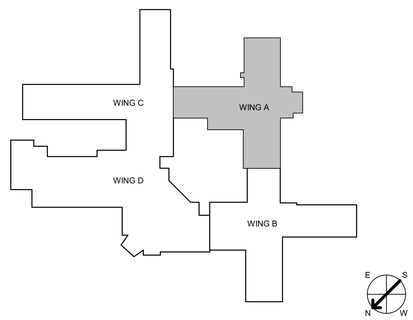
IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING STORM PIPING TO DEMARCATION POINT SHOWN.

(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT DEMOLISH EXISTING STORM PIPING.



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JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

Revision #	Date

SHEET TITLE: PLUMBING WASTE DEMO PLAN - BASEMENT WING A FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

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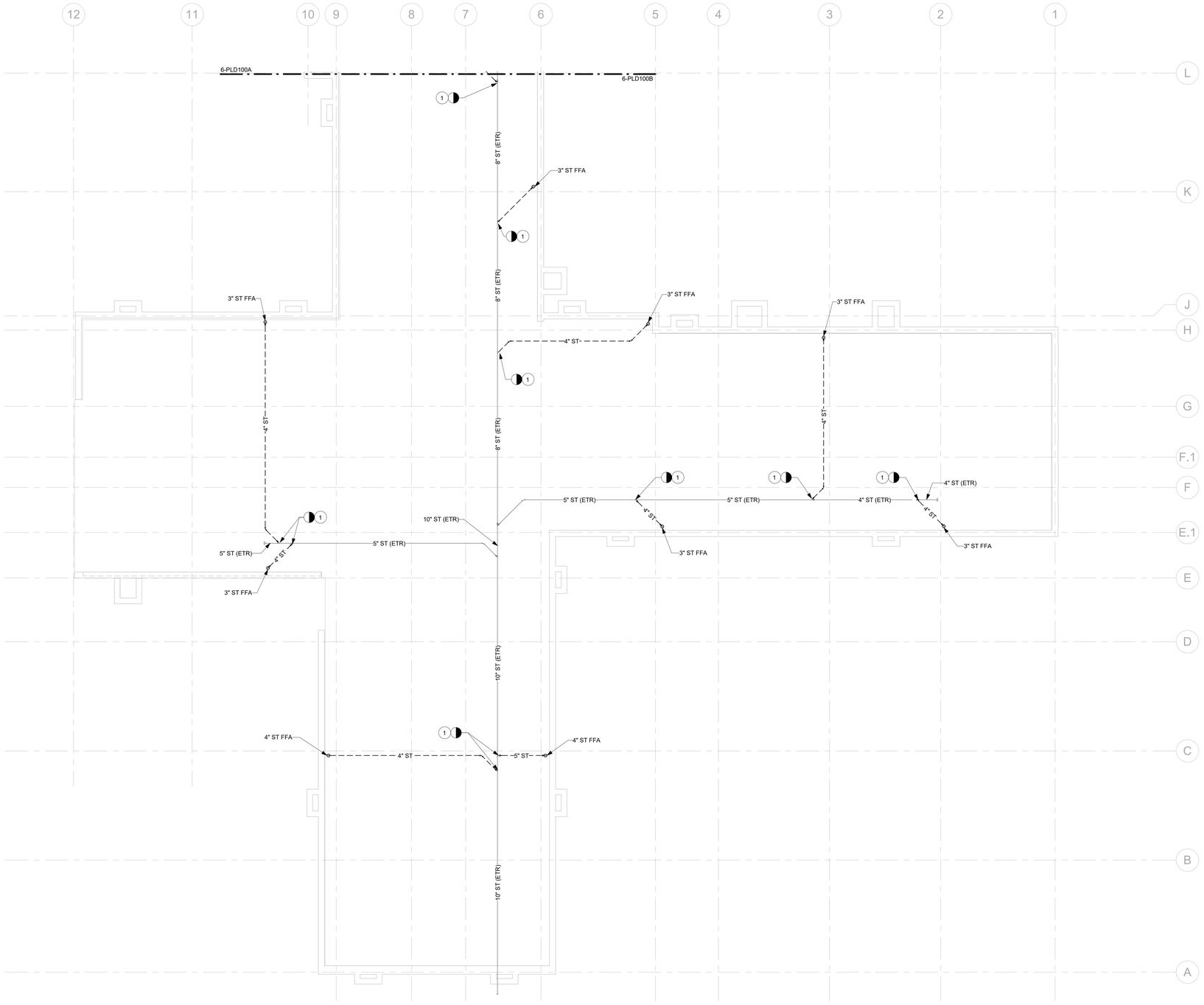
Dwg. 57 OF 160

VA FORM 08-6231



GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.
6. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.
7. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

DEDUCT ALTERNATE & PHASING:

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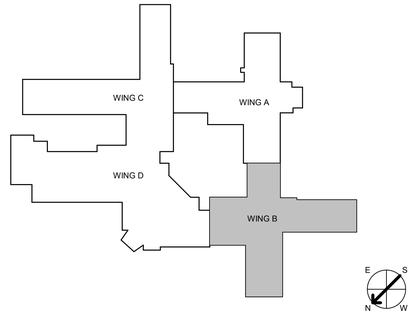
IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING STORM PIPING TO DEMARCATION POINT SHOWN.



1 PLUMBING WASTE DEMO PLAN - BASEMENT WING B FLOOR PLAN

1/8" = 1'-0"

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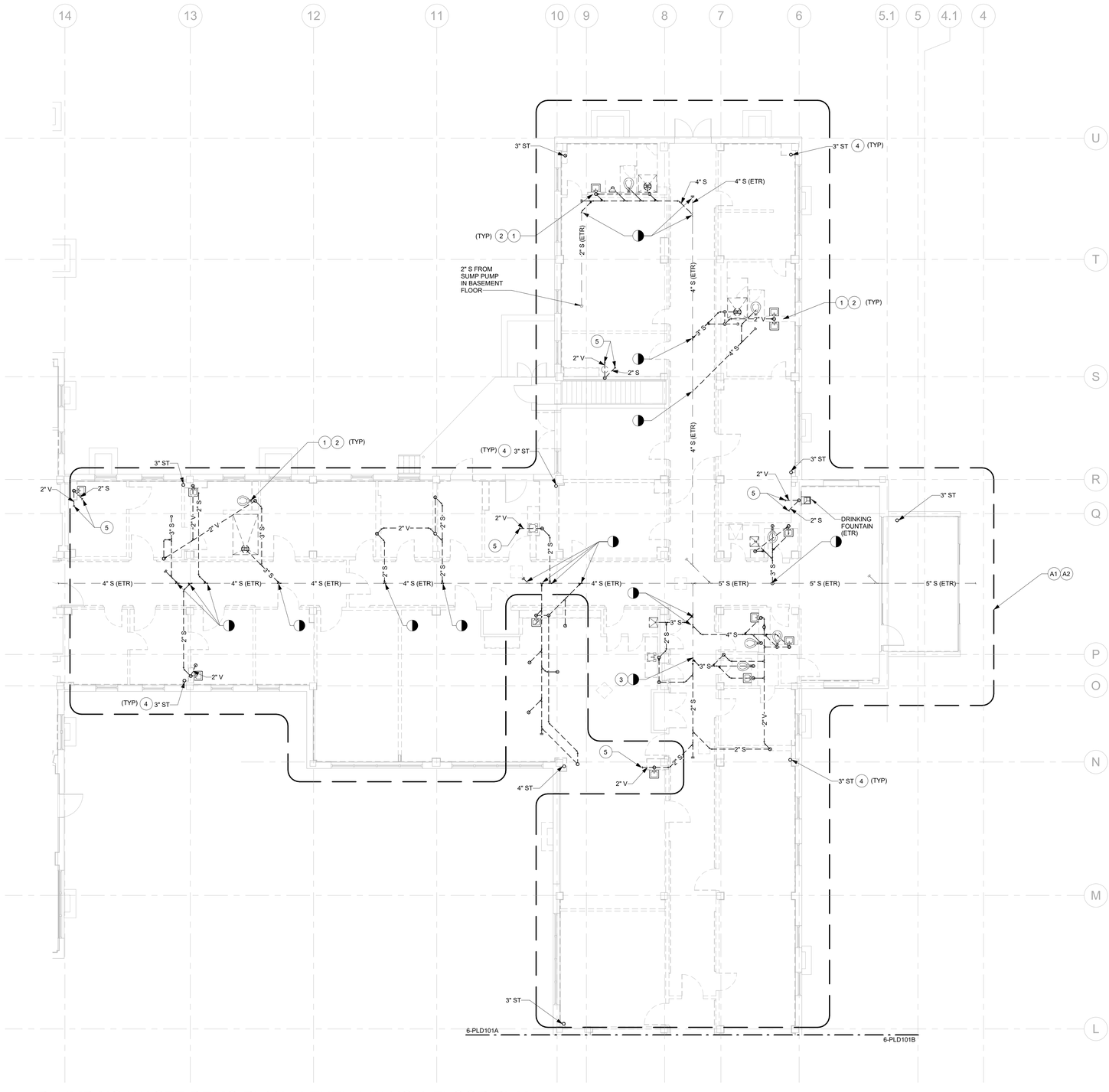
VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING WASTE DEMO PLAN - BASEMENT WING B FLOOR PLAN	PROJECT PHASE: BID DOCUMENTS
APPROVED: PROJECT DIRECTOR	FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6	VA PROJECT NUMBER: 589-A5-19-116
PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622	BUILDING NUMBER: 6
DATE: 07/10/2019 — CHECKED BY: JES — DRAWN BY: RLC	DRAWING NUMBER: 6-PLD100B — Dwg. 58 OF 160

VA FORM 08-6231



1 PLUMBING WASTE DEMO PLAN - LEVEL 1 WING A FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
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3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.
6. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.
7. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING FIXTURES AND ASSOCIATED SANITARY WASTE PIPING BACK TO MAIN IN CRAWL SPACE. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

2 DEMOLISH EXISTING SANITARY VENT PIPING BACK TO VENT THROUGH ROOF (VTR). VTR TO REMAIN UNLESS NOTED OTHERWISE.

3 DEMOLISH EXISTING SANITARY WASTE PIPING TO DEMARCATION POINT SHOWN.

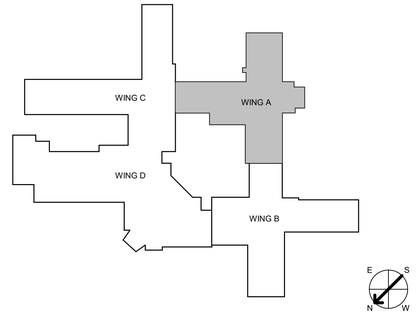
4 DEMOLISH EXISTING STORM PIPING FROM CONNECTION AT ROOF DRAIN TO MAIN IN CRAWL SPACE.

5 CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.

(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT DEMOLISH EXISTING STORM PIPING.

A2. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT DEMOLISH EXISTING PLUMBING FIXTURES AND ASSOCIATED SANITARY WASTE AND VENT PIPING.



Revision #	Date

CONSULTANT INFORMATION

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ARCHITECT

spur DESIGN
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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING WASTE DEMO PLAN - LEVEL 1 WING A FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

VA PROJECT NUMBER: 589-A5-19-116

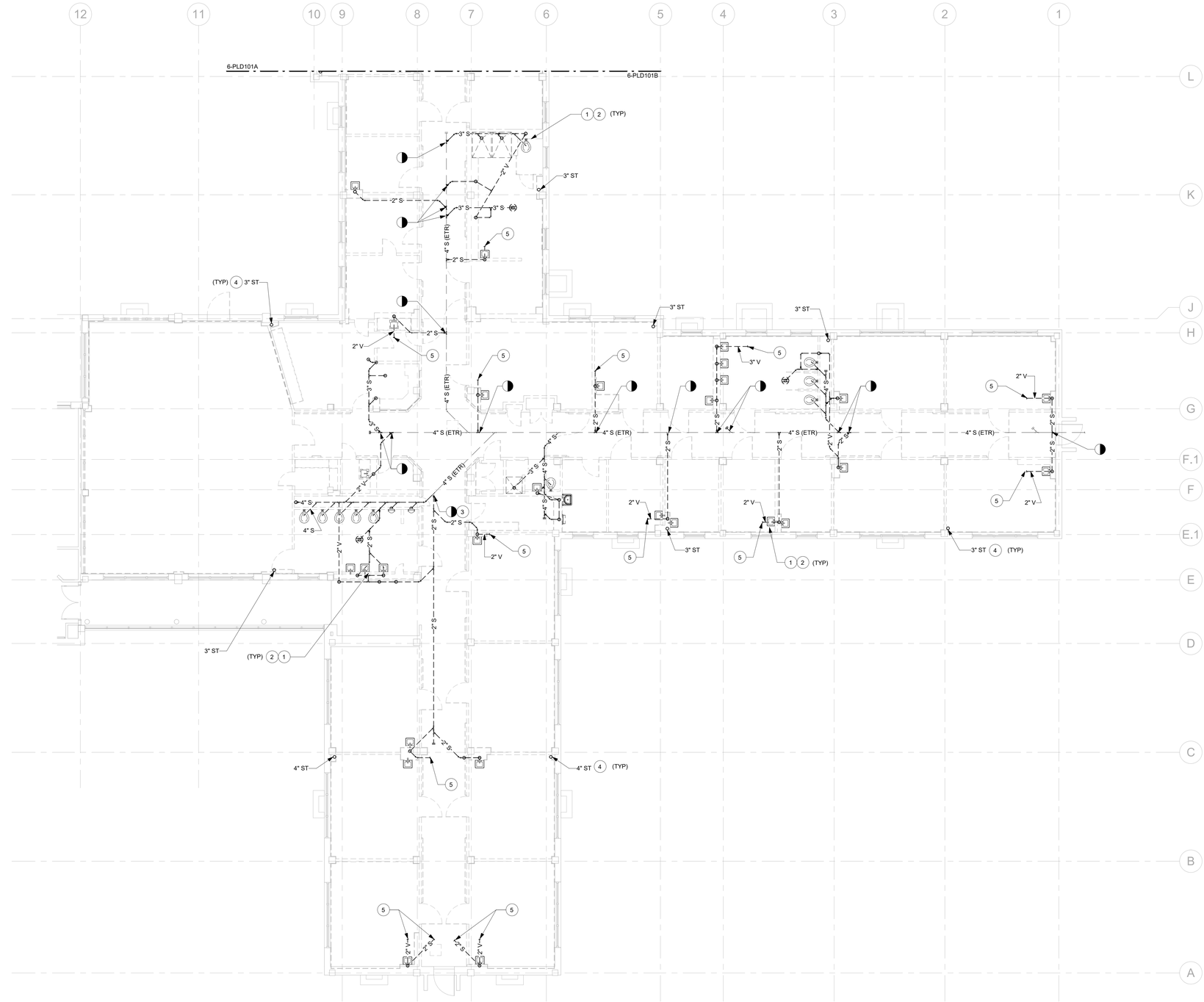
BUILDING NUMBER: 6

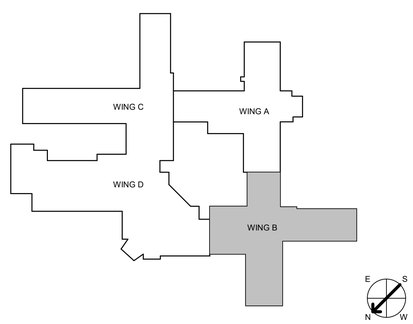
DRAWING NUMBER: 6-PLD101A

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

Dwg. 59 OF 160

VA FORM 08-6231





1 PLUMBING WASTE DEMO PLAN - LEVEL 1 WING B FLOOR PLAN

1/8" = 1'-0"

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DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING FIXTURES AND ASSOCIATED SANITARY WASTE PIPING BACK TO MAIN IN CRAWL SPACE. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

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4 DEMOLISH EXISTING STORM PIPING FROM CONNECTION AT ROOF DRAIN TO MAIN IN CRAWL SPACE.

5 CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.

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JOHN E. SOMMERS LICENSED PROFESSIONAL ENGINEER 22162 7/10/2019 KANSAS

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING WASTE DEMO PLAN - LEVEL 1 WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

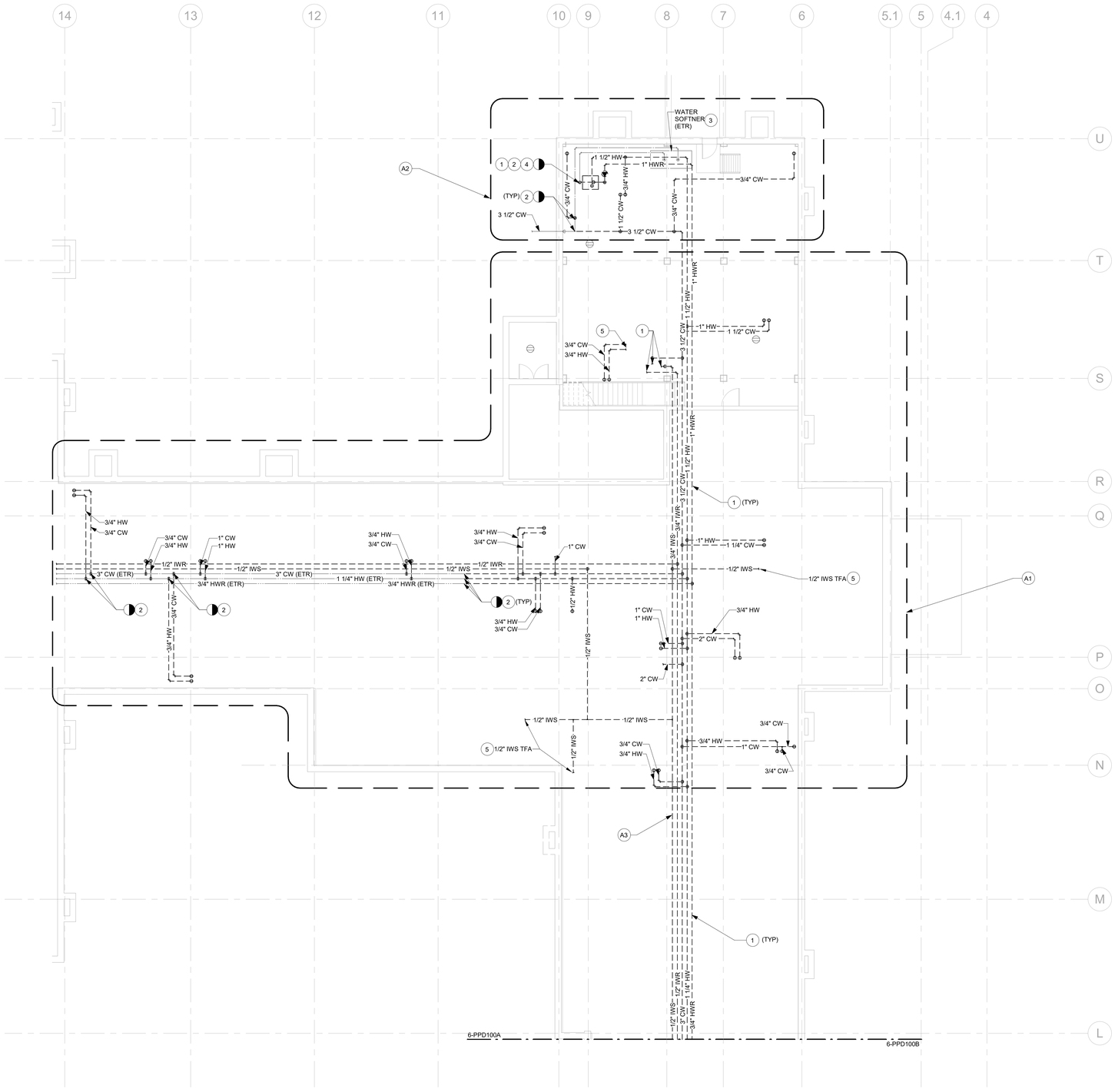
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-PLD101B

Dwg. 60 OF 160

VA FORM 08-6231



1 PLUMBING SUPPLY DEMO PLAN - BASEMENT WING A FLOOR PLAN

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DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING DOMESTIC WATER PIPING AND ASSOCIATED ACCESSORIES.

2 DEMOLISH EXISTING DOMESTIC WATER PIPING BACK TO DEMARCATION POINT SHOWN.

3 WATER SOFTENER SHOWN IS EXISTING TO REMAIN (ETR).

4 DEMOLISH EXISTING DOMESTIC WATER HEATER AND ASSOCIATED ACCESSORIES.

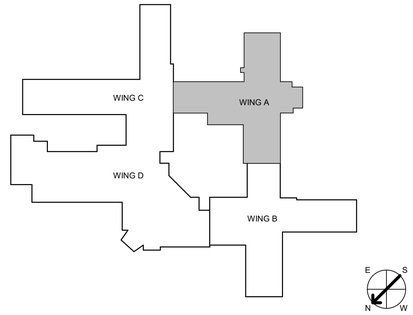
5 CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.

(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT DEMOLISH EXISTING DOMESTIC WATER PIPING.

A2. BID DEDUCT ALTERNATE # 1: IF DEDUCT ALTERNATE IS CHOSEN: DISCONNECT EXISTING BRANCH PIPING AS REQUIRED FOR NEW WORK. RECONNECT EXISTING BRANCH PIPING AFTER INSTALLATION OF NEW WATER MAINS. SEE 6-PP-100A FOR RELATED WORK.

A3. BID DEDUCT ALTERNATE # 1: IF DEDUCT ALTERNATE IS CHOSEN: DEMOLISH EXISTING DOMESTIC WATER PIPING AFTER THE LAST FIXTURE SERVED IN WING A.



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JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY DEMO PLAN - BASEMENT WING A FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116

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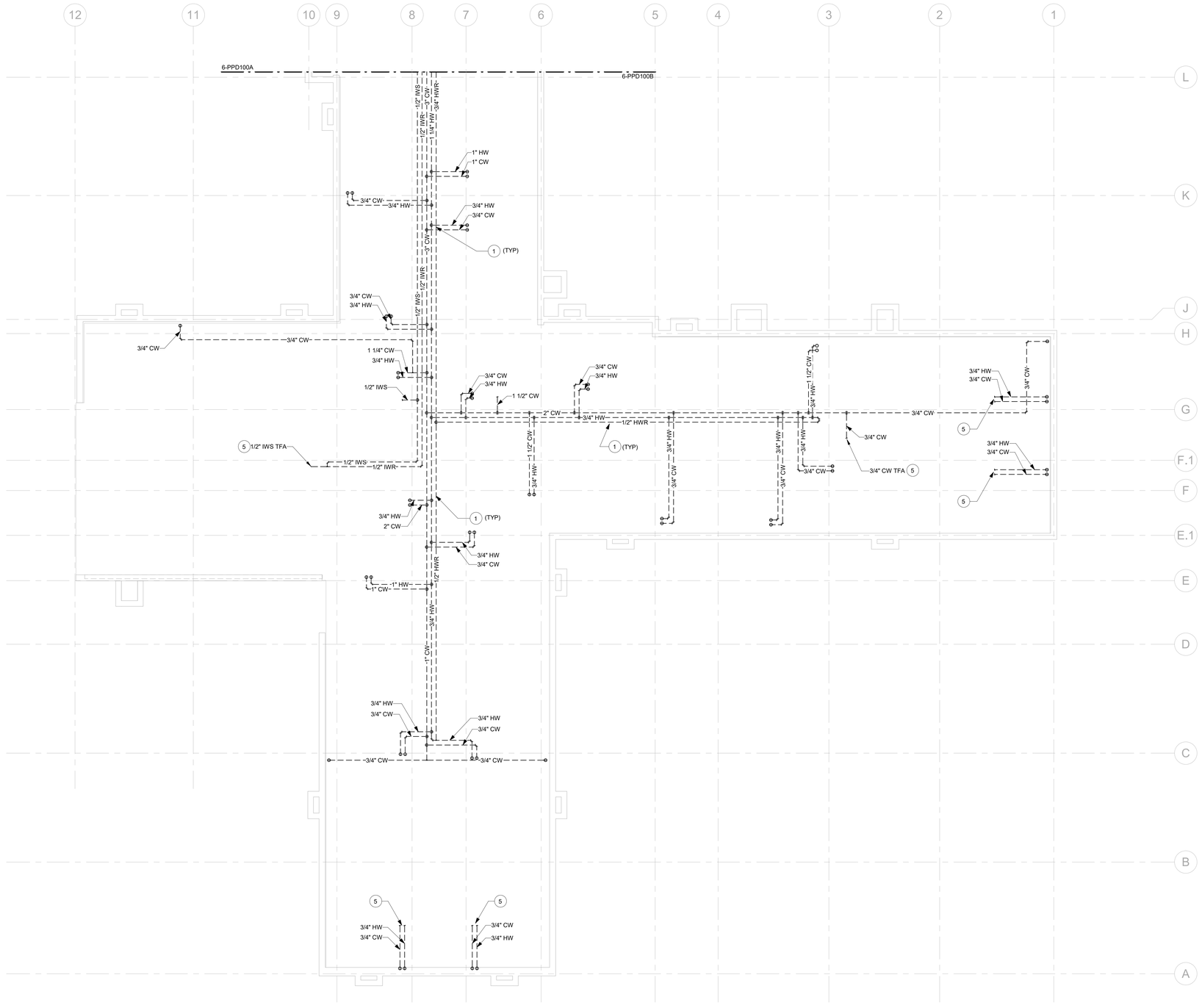
Dwg. 61 OF 160

VA FORM 08-6231



1 PLUMBING SUPPLY DEMO PLAN - BASEMENT WING B FLOOR PLAN

1/8" = 1'-0"

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DEDUCT ALTERNATE & PHASING:

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IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

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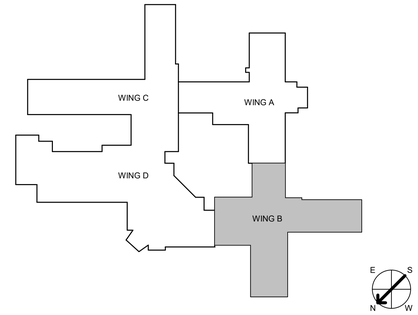

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JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY DEMO PLAN - BASEMENT WING B FLOOR PLAN	PROJECT PHASE: BID DOCUMENTS
APPROVED: PROJECT DIRECTOR	FULLY SPRINKLERED
PROJECT TITLE: RENOVATE A & B WING BUILDING 6	VA PROJECT NUMBER: 589-A5-19-116
PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622	BUILDING NUMBER: 6
DATE: 07/10/2019	DRAWING NUMBER: 6-PPD100B
CHECKED BY: JES	Dwg. 62 OF 160
DRAWN BY: RLC	

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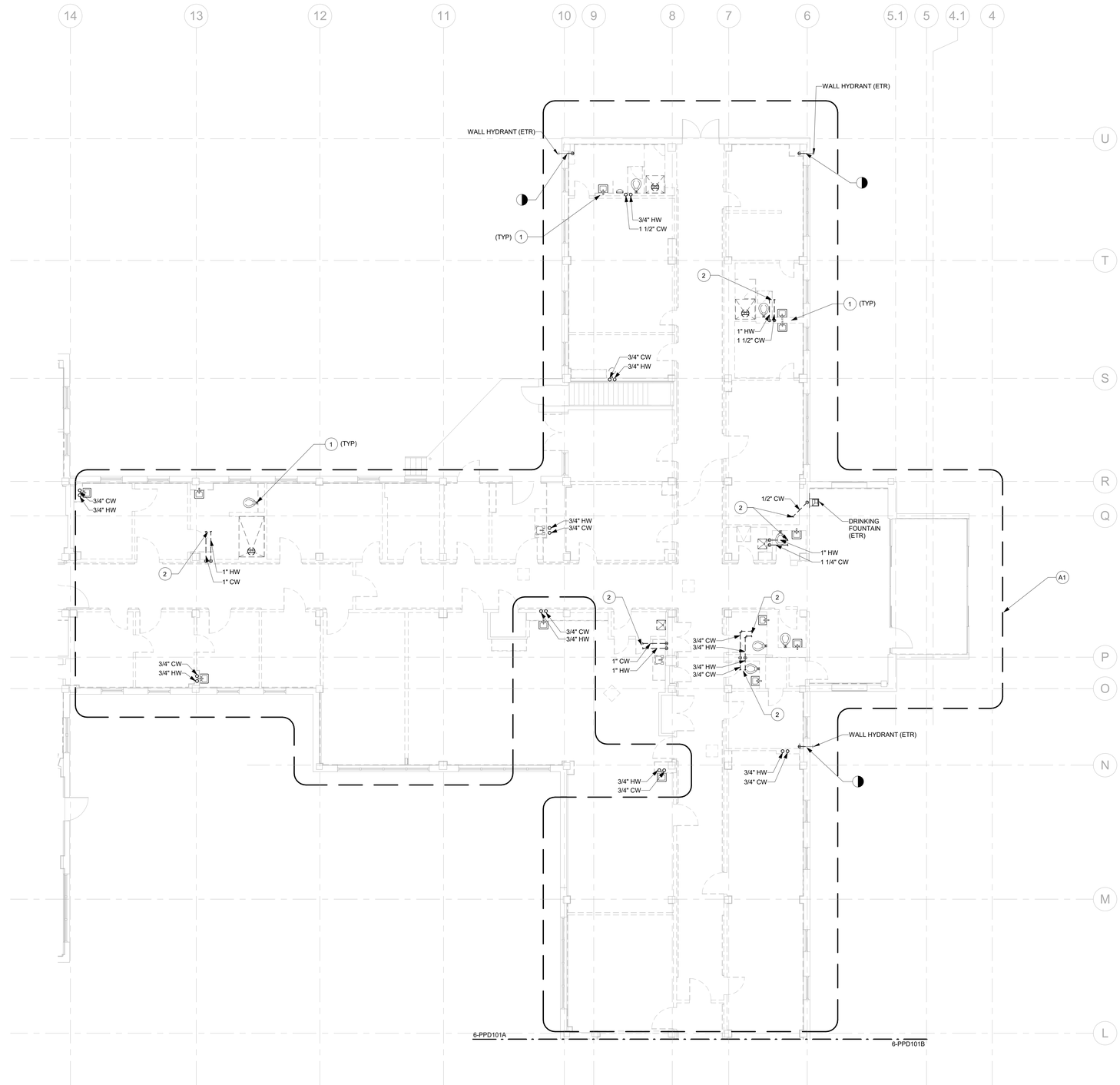

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(#) PLUMBING DEMO PLAN NOTES:

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2 CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.

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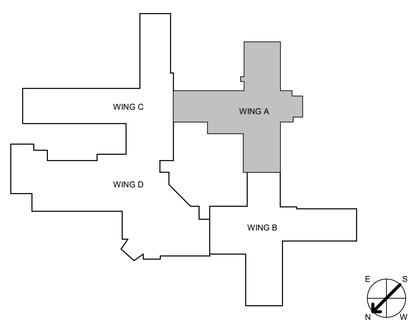

three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

Revision #	Date

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JOHN E. SONNERS, LICENSED, 22162, 7/10/2019, PROFESSIONAL ENGINEER, KANSAS

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

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FULLY SPRINKLERED

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BUILDING NUMBER: 6

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Dwg. 63 OF 160

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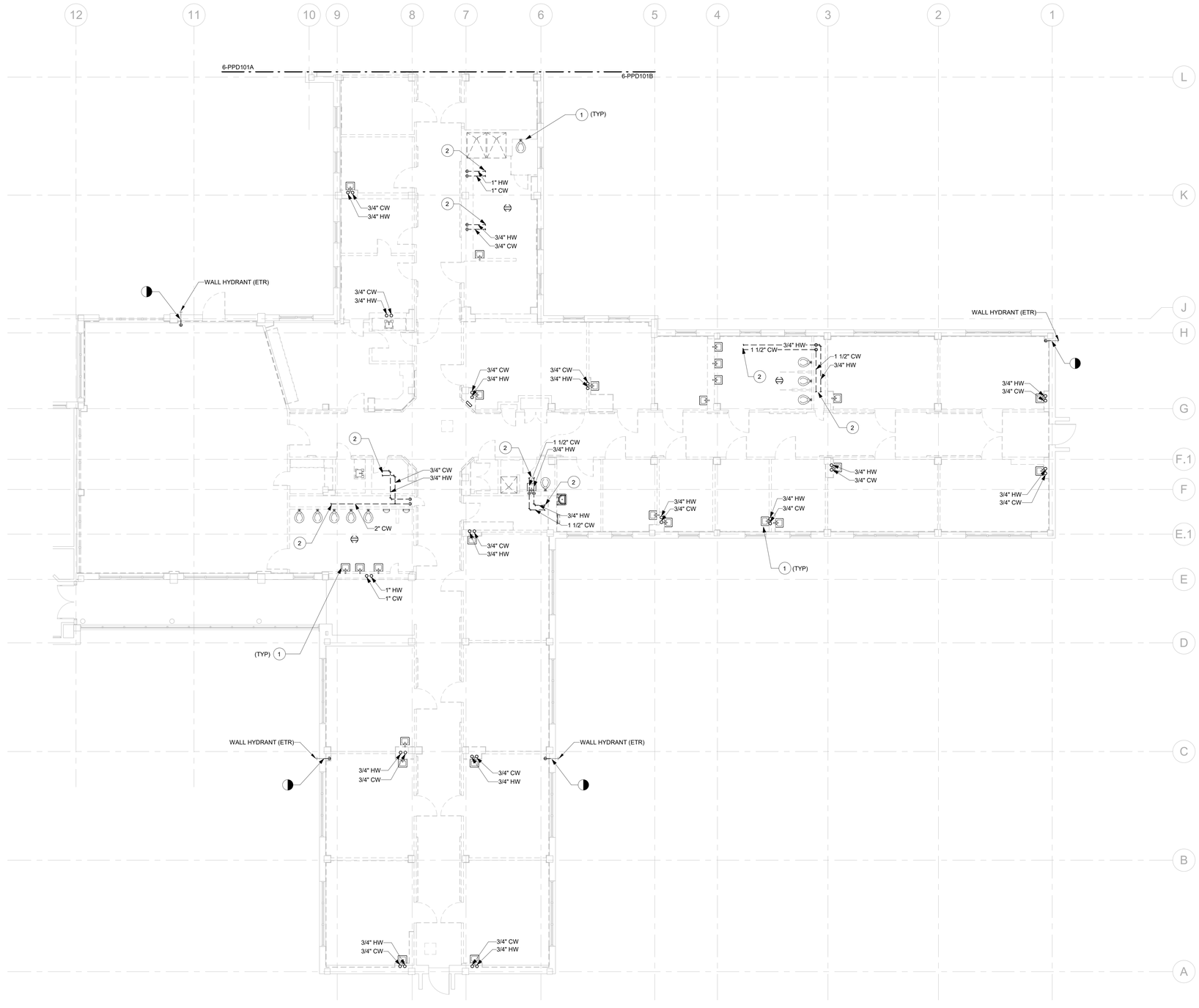

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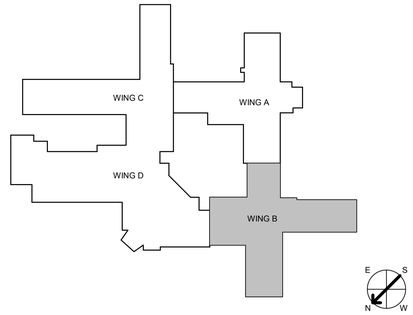
2 CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.



1 PLUMBING SUPPLY DEMO PLAN - LEVEL 1 WING B FLOOR PLAN

1/8" = 1'-0"

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
STAND STRUCTURAL ENGINEERING
11827 W. 112TH STREET, SUITE 200
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(913) 214-2169

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SPUR DESIGN
11020 KING STREET, SUITE 350
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(405) 842-6100

FIRE PROTECTION ENGINEER
POOLE FIRE PROTECTION, INC.
19910 W. 161ST STREET
OLATH, KS 66062
(913) 829-8650

ARCHITECT

spur DESIGN
312 SW 25th Street, Oklahoma City, OK 73109, spur-design.com
11020 King Street, Suite 350, Overland Park, KS 66210, spur-design.com

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS, LICENSED, 22162, 7/10/2019, PROFESSIONAL ENGINEER, KANSAS

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY DEMO PLAN - LEVEL 1 WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

VA PROJECT NUMBER: 589-A5-19-116

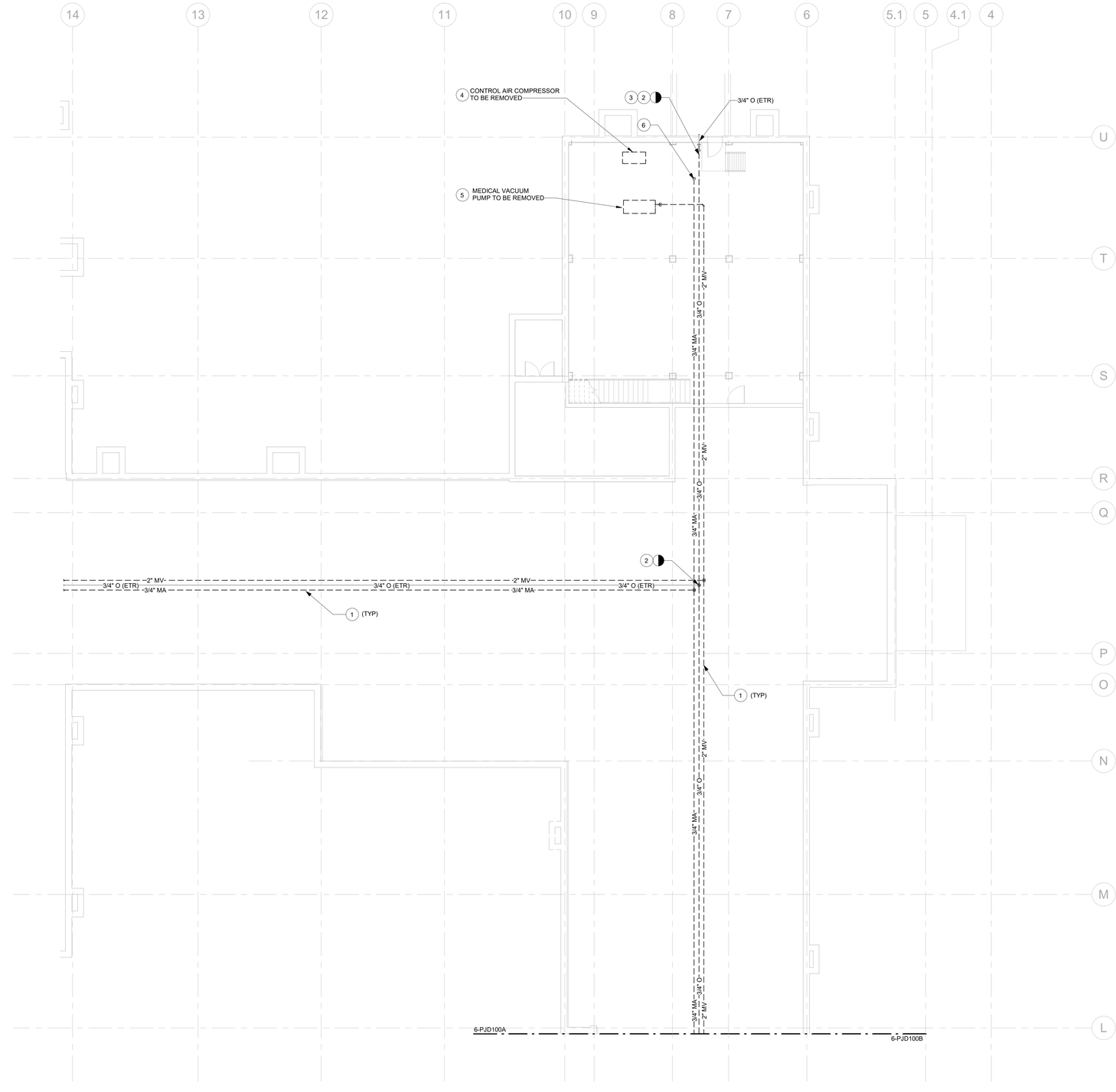
BUILDING NUMBER: 6

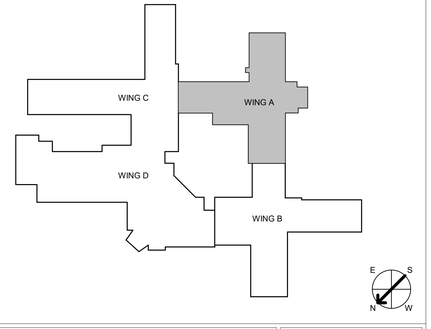
DRAWING NUMBER: 6-PPD101B

DATE	CHECKED BY	DRAWN BY
07/10/2019	JES	RLC

Dwg. 64 OF 160

VA FORM 08-6231





1 MEDICAL GAS DEMO PLAN - BASEMENT WING A FLOOR PLAN

1/8" = 1'-0"

GENERAL DEMO NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE WITH THE COR THE EQUIPMENT TO BE SALVAGED AND THE LOCATION FOR STORAGE.
6. POSITIVE PRESSURE PATIENT MEDICAL GAS PIPING SHALL NOT BE BREACHED OR PENETRATED BY ANY MEANS OR PROCESS THAT WILL RESULT IN RESIDUAL COPPER PARTICLES OR OTHER DEBRIS REMAINING IN THE PIPING, OR THAT AFFECTS THE OXYGEN-CLEAN INTERIOR OF THE PIPING. IF BREACHING OR PENETRATING THE MEDICAL GAS PIPING IS REQUIRED, THE PROCESS SHALL ENSURE THAT ANY DEBRIS CREATED BY THE PROCESS REMAINS CONTAINED WITHIN THE WORK AREA.
7. HOT TAPS OR SIMILAR VALVE ASSEMBLIES ARE NOT PERMITTED IN MEDICAL GAS PIPING SYSTEMS.
8. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING MEDICAL GAS PIPING AND ASSOCIATED ACCESSORIES.

2 DEMOLISH EXISTING MEDICAL GAS PIPING BACK TO DEMARCATION POINT SHOWN.

3 DEMOLISH EXISTING MEDICAL GAS PIPING BACK TO TWO (2) FEET FROM WALL.

4 REMOVE EXISTING CONTROL AIR COMPRESSOR AND ASSOCIATED PIPING AND ACCESSORIES. SALVAGE CONTROL AIR COMPRESSOR TO OWNER. COORDINATE WITH COR FOR DELIVERY.

5 REMOVE EXISTING MEDICAL VACUUM PUMP. SALVAGE TO OWNER. COORDINATE WITH COR FOR DELIVERY.

6 EXISTING MEDICAL AIR LINE DISCONNECTED IN CEILING. FIELD VERIFY EXACT LOCATION.

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
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11827 W. 112TH STREET, SUITE 200
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FIRE PROTECTION ENGINEER
POOLE FIRE PROTECTION, INC.
19910 W. 161ST STREET
OLATH, KS 66062
(913) 829-8650

ARCHITECT

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spur-design.com

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: MEDICAL GAS DEMO PLAN - BASEMENT WING A FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

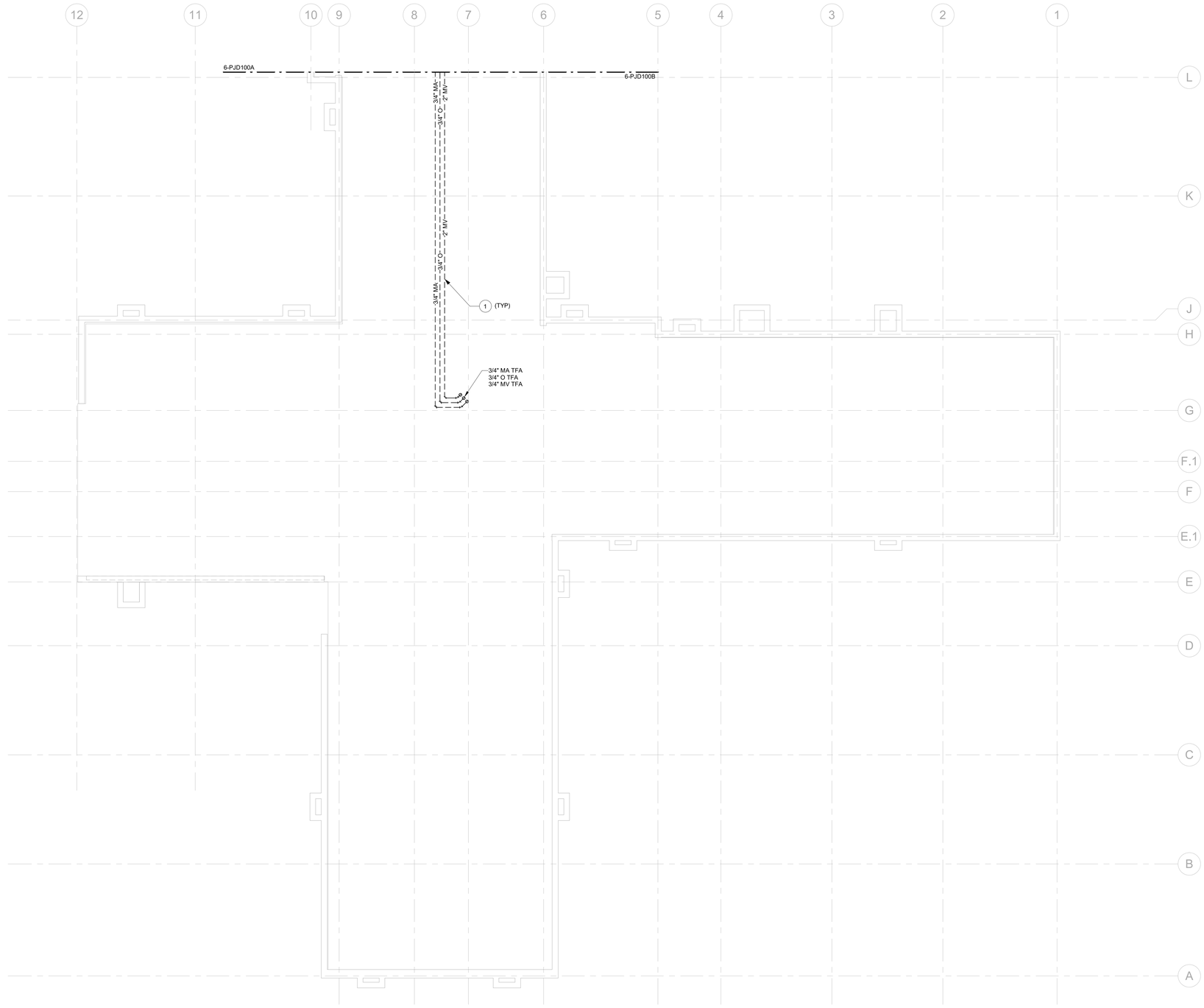
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-PJD100A

Dwg. 65 OF 160

VA FORM 08-6231



GENERAL DEMO NOTES:

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2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
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8. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.

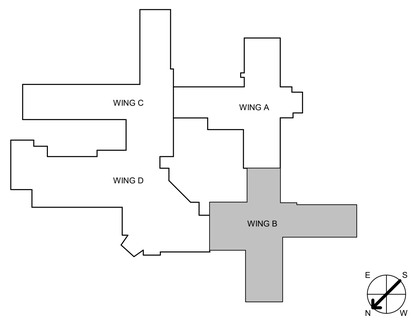
DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING MEDICAL GAS PIPING AND ASSOCIATED ACCESSORIES.



1 MEDICAL GAS DEMO PLAN - BASEMENT WING B FLOOR PLAN

1/8" = 1'-0"

Revision #	Date

CONSULTANT INFORMATION

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11020 King Street, Suite 350, Overland Park, KS 66210
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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE
MEDICAL GAS DEMO PLAN - BASEMENT WING B FLOOR PLAN

PROJECT PHASE
BID DOCUMENTS

APPROVED: PROJECT DIRECTOR

FULLY SPRINKLERED

PROJECT TITLE
RENOVATE A & B WING BUILDING 6

PROJECT LOCATION
2200 SW GAGE BLVD
TOPEKA, KS 66622

VA PROJECT NUMBER
589-A5-19-116

BUILDING NUMBER
6

DRAWING NUMBER
6-PJD100B

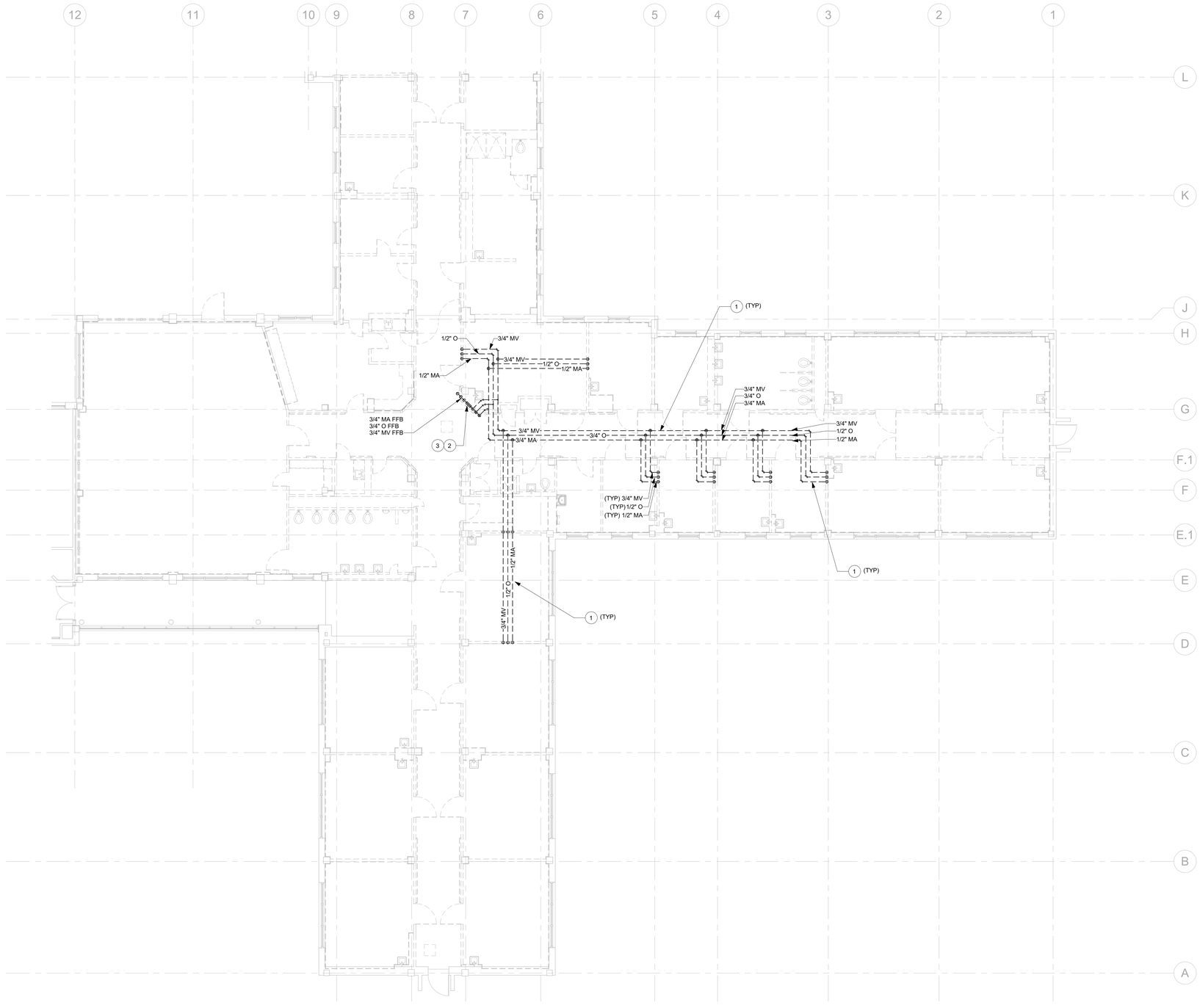
DATE
07/10/2019

CHECKED BY
JES

DRAWN BY
RLC

Dwg. 66 OF 160

VA FORM 08-6231



GENERAL DEMO NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE WITH THE COR THE EQUIPMENT TO BE SALVAGED AND THE LOCATION FOR STORAGE.
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7. HOT TAPS OR SIMILAR VALVE ASSEMBLIES ARE NOT PERMITTED IN MEDICAL GAS PIPING SYSTEMS.
8. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

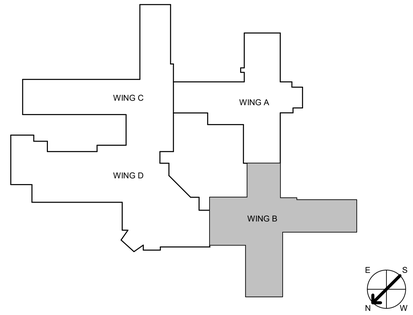
IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING DEMO PLAN NOTES:

1 DEMOLISH EXISTING MEDICAL GAS PIPING AND ASSOCIATED ACCESSORIES.

2 DEMOLISH EXISTING ZONE VALVE BOX.

3 DEMOLISH EXISTING AREA ALARM PANEL. FIELD VERIFY EXACT LOCATION.



1 MEDICAL GAS DEMO PLAN - LEVEL 1 WING B FLOOR PLAN
1/8" = 1'-0"

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
STAND STRUCTURAL ENGINEERING
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FIRE PROTECTION ENGINEER
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19910 W. 161ST STREET
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spur DESIGN
312 SW 25th Street, Oklahoma City, OK 73109 (405) 842-6100
11020 King Street, Suite 350, Overland Park, KS 66210 (913) 814-9994

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SCHAMBER LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: MEDICAL GAS DEMO PLAN - LEVEL 1 WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

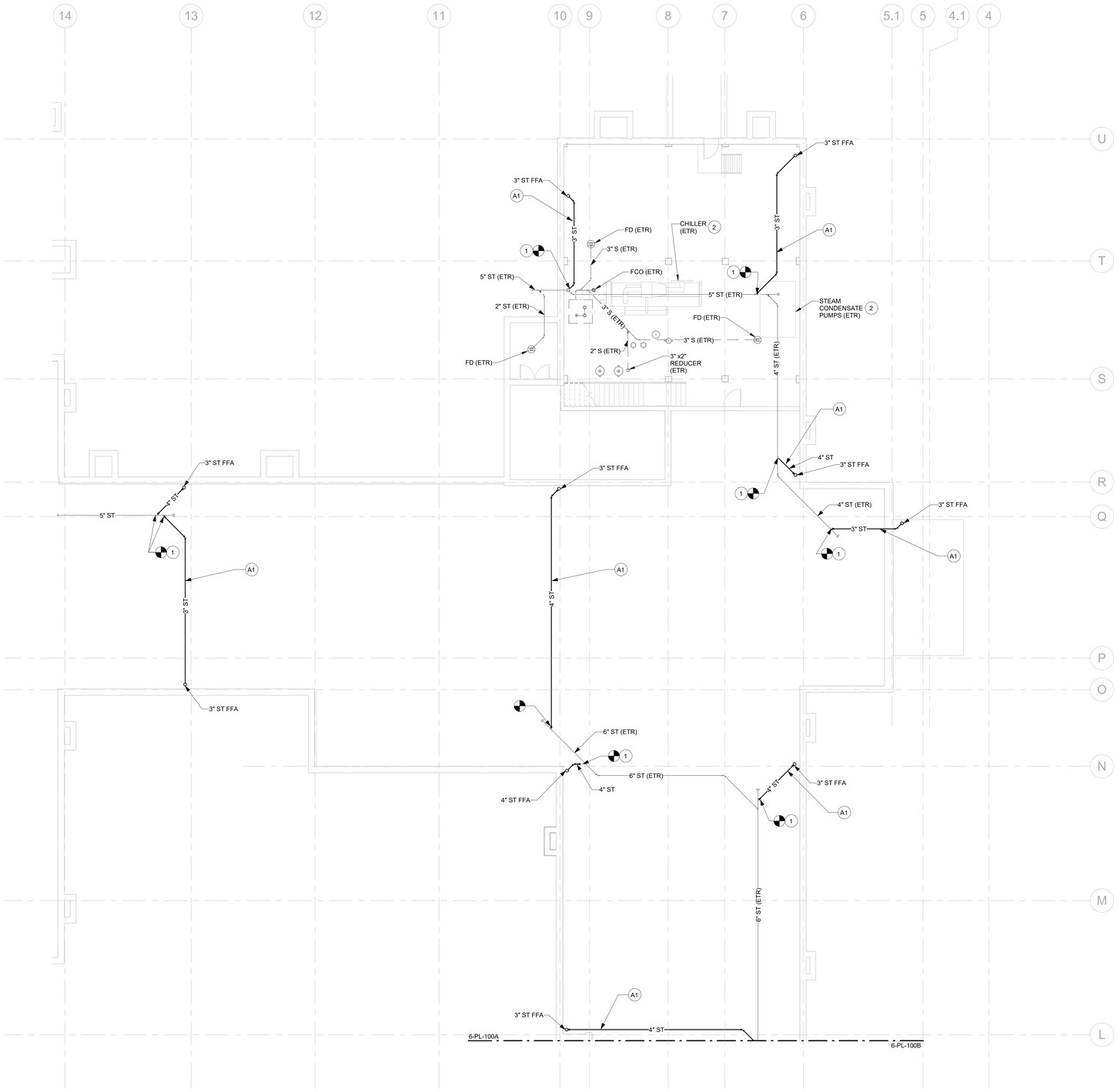
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-PJD101B

Dwg. 67 OF 160

VA FORM 08-6231



1 PLUMBING WASTE PLAN - BASEMENT WING A FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

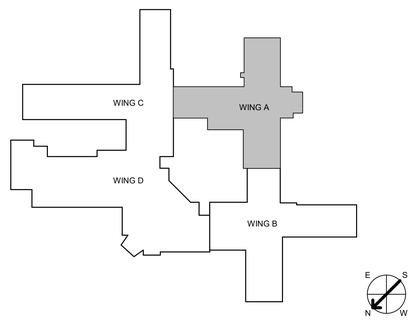
(#) PLUMBING PLAN NOTES:

1 INSTALL STORM PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

2 MECHANICAL EQUIPMENT EXISTING TO REMAIN. COORDINATE NEW PLUMBING WORK WITH EXISTING CONDITIONS. SEE MECHANICAL FOR RELATED INFORMATION.

DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT PROVIDE NEW STORM PIPING.



Revision #	Date

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JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE
PLUMBING WASTE PLAN - BASEMENT WING A FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE
BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE
RENOVATE A & B WING BUILDING 6

PROJECT LOCATION
2200 SW GAGE BLVD
TOPEKA, KS 66622

VA PROJECT NUMBER
589-A5-19-116

BUILDING NUMBER
6

DRAWING NUMBER
6-PL-100A

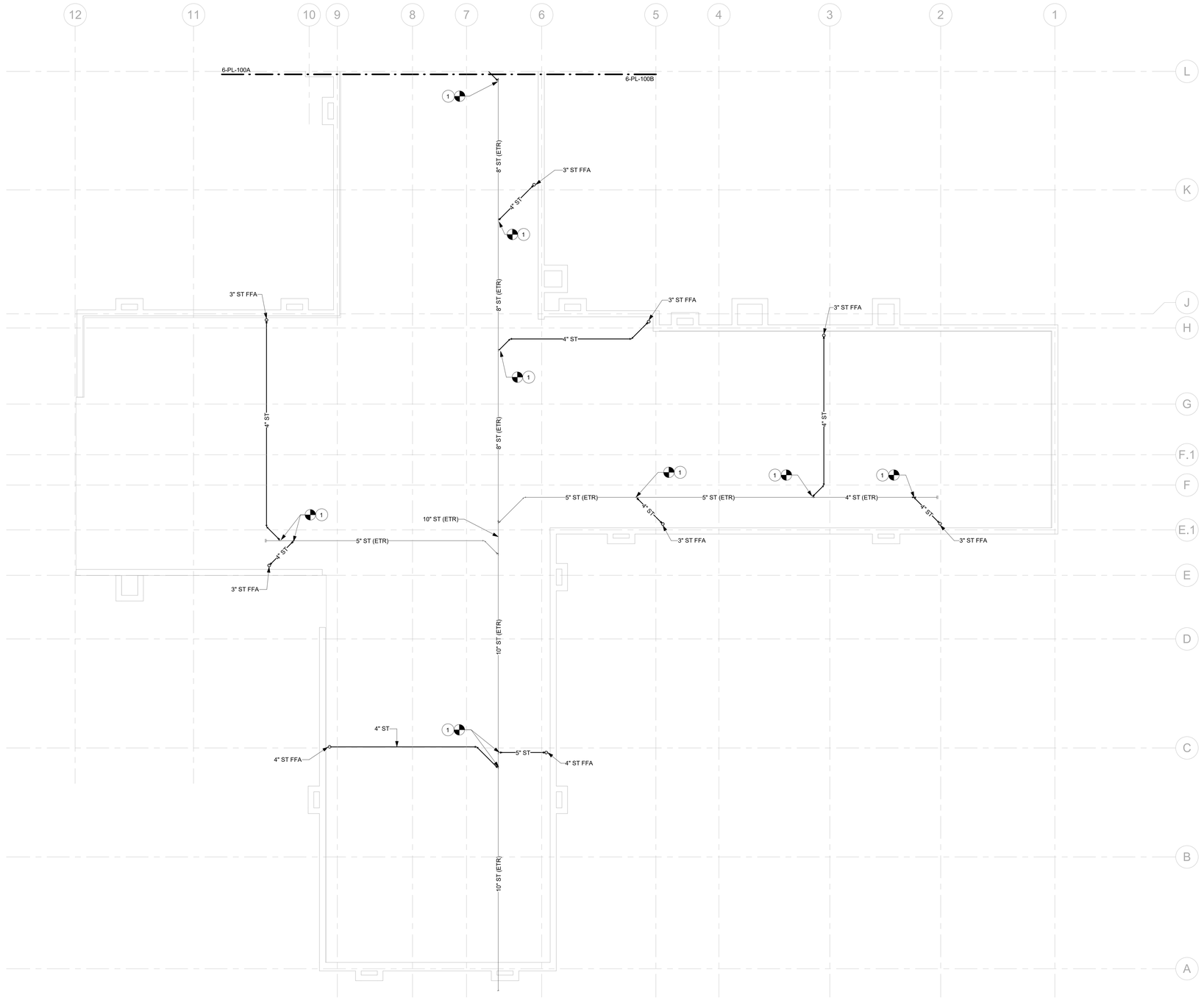
DATE
07/10/2019

CHECKED BY
JES

DRAWN BY
RLC

Dwg. 68 OF 160

VA FORM 08-6231



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5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

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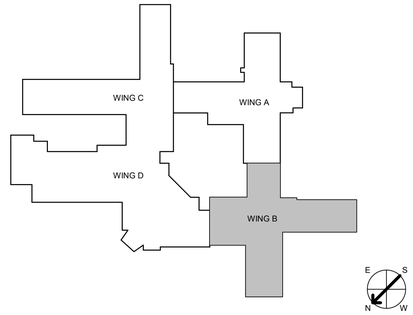
(#) PLUMBING PLAN NOTES:

1 INSTALL STORM PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.



1 PLUMBING WASTE PLAN - BASEMENT WING B FLOOR PLAN

1/8" = 1'-0"

Revision #	Date

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JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING WASTE PLAN - BASEMENT WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

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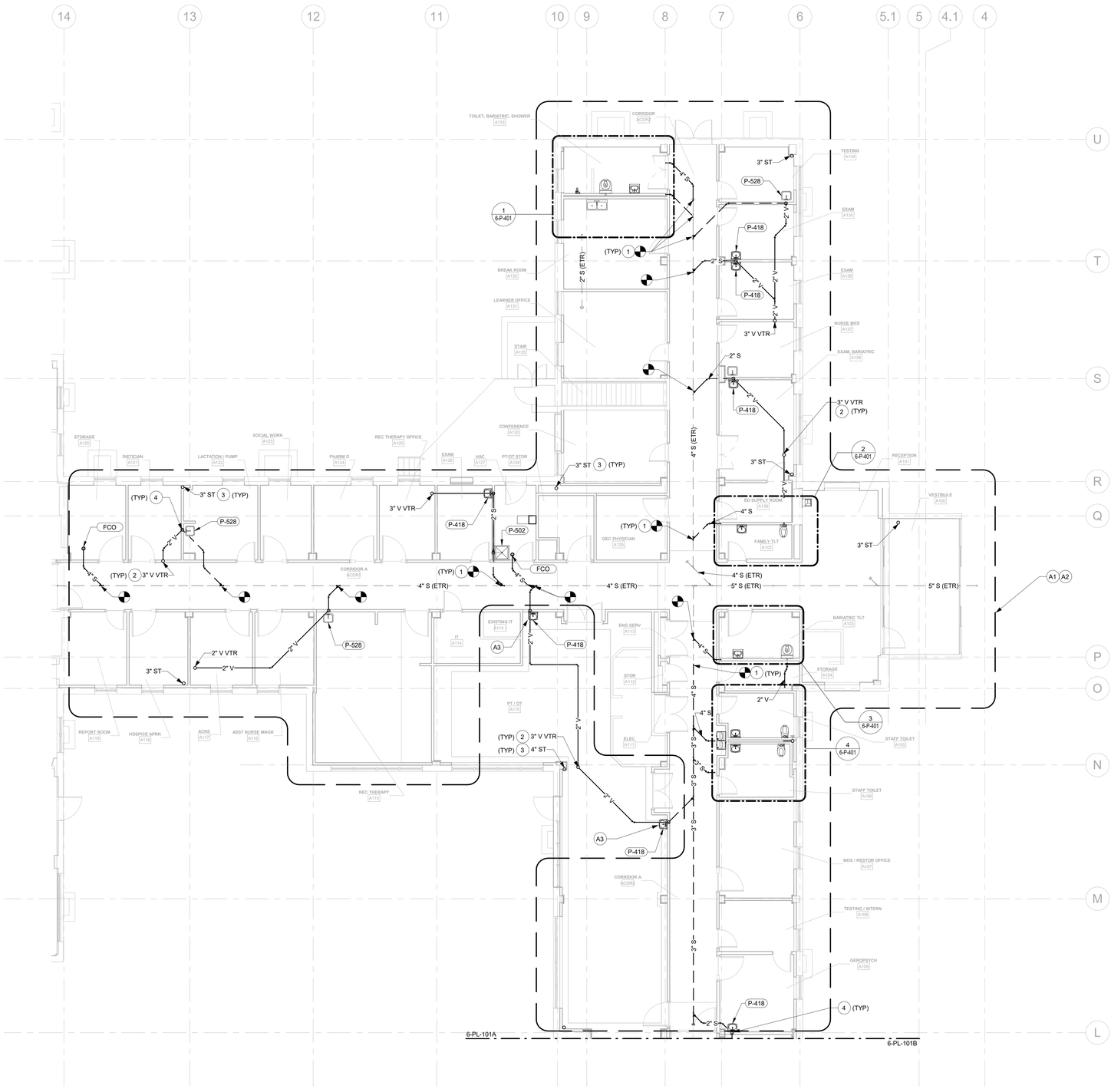
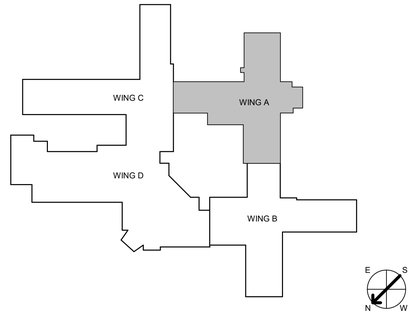
Dwg. 69 OF 160

VA FORM 08-6231



1 PLUMBING WASTE PLAN - LEVEL 1 WING A FLOOR PLAN

1/8" = 1'-0"



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DEDUCT ALTERNATE & PHASING:

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IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 INSTALL SANITARY WASTE PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

2 INSTALL SANITARY VENT PIPING TO VENT THROUGH ROOF. PROVIDE VTR AS SHOWN ON SHEET 6-P-102A. VTR MUST BE A MINIMUM OF 25 FEET AWAY FROM ANY FRESH AIR INTAKES.

3 INSTALL STORM PIPING AND CONNECT TO EXISTING ROOF DRAIN.

4 COORDINATE ALL FLOOR PENETRATIONS WITH EXISTING WAFFLE SLAB.

(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT PROVIDE NEW STORM PIPING.

A2. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT PROVIDE NEW PLUMBING FIXTURES AND ASSOCIATED SANITARY WASTE AND VENT PIPING.

A3. IF DEDUCT ALTERNATE IS ACCEPTED, PROVIDE NEW SANITARY WASTE AND VENT PIPING AS SHOWN.

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
STAND STRUCTURAL ENGINEERING
11827 W. 112TH STREET, SUITE 200
OVERLAND PARK, KS 66210
(913) 214-2169

MECHANICAL / ELECTRICAL / PLUMBING / TECHNICAL ENGINEER
SPUR DESIGN
11020 KING STREET, SUITE 350
OVERLAND PARK, KS 66210
(405) 842-6100

FIRE PROTECTION ENGINEER
POOLE FIRE PROTECTION, INC.
19910 W. 161ST STREET
OLATHE, KS 66062
(913) 829-8650

ARCHITECT

spur DESIGN
112 SW 25th Street, Suite 200, Bend, OR 97709, spur-design.com
11020 King Street, Suite 350, Overland Park, KS 66210, spur-design.com

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SONNEMAKER LICENSED 22162 7/10/2019 PROFESSIONAL ENGINEER KANSAS

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING WASTE PLAN - LEVEL 1 WING A FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

VA PROJECT NUMBER: 589-A5-19-116

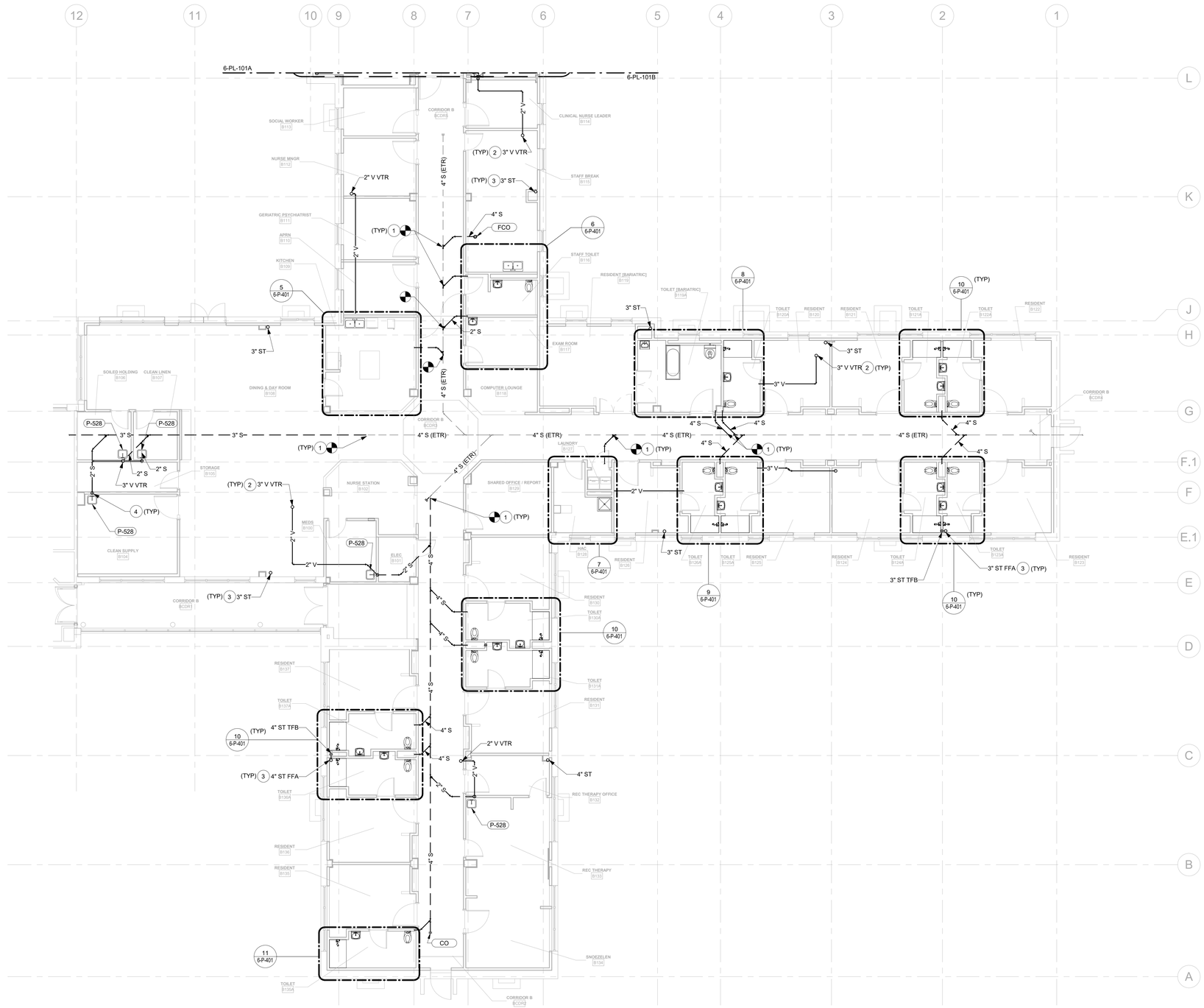
BUILDING NUMBER: 6

DRAWING NUMBER: 6-PL-101A

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

Dwg. 70 OF 160

VA FORM 08-6231



1 PLUMBING WASTE PLAN - LEVEL 1 WING B FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

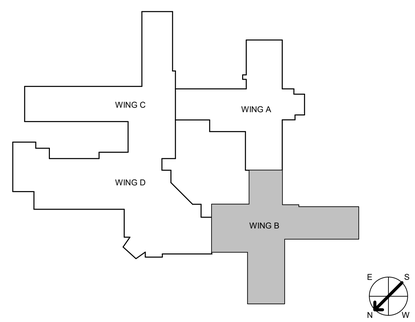
(#) PLUMBING PLAN NOTES:

1 INSTALL SANITARY WASTE PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

2 INSTALL SANITARY VENT PIPING TO VENT THROUGH ROOF. PROVIDE VTR AS SHOWN ON SHEET 6-P-102B. VTR MUST BE A MINIMUM OF 25 FEET AWAY FROM ANY FRESH AIR INTAKES..

3 INSTALL STORM PIPING AND CONNECT TO EXISTING ROOF DRAIN.

4 COORDINATE ALL FLOOR PENETRATIONS WITH EXISTING WAFFLE SLAB.



Revision #	Date

CONSULTANT INFORMATION

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312 SW 25th Street, Oklahoma City, OK 73109, spur-design.com
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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING WASTE PLAN - LEVEL 1 WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

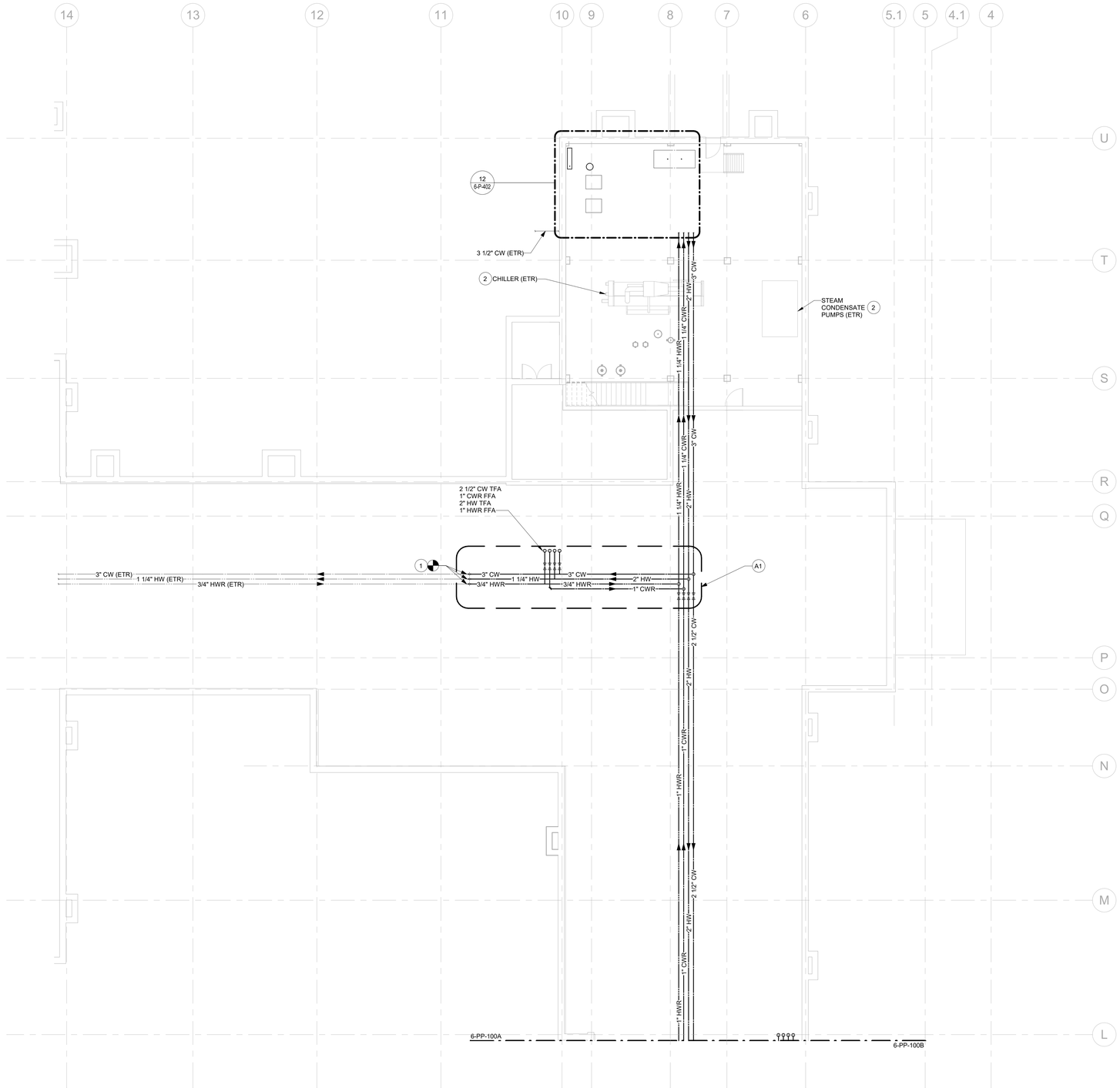
VA PROJECT NUMBER: 589-A5-19-116

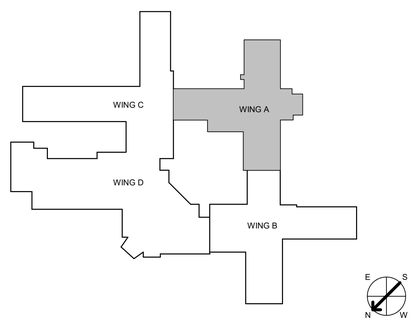
BUILDING NUMBER: 6

DRAWING NUMBER: 6-PL-101B

Dwg. 71 OF 160

VA FORM 08-6231





1 PLUMBING SUPPLY PLAN - BASEMENT WING A FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 INSTALL DOMESTIC WATER PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

2 MECHANICAL EQUIPMENT EXISTING TO REMAIN. COORDINATE NEW PLUMBING WORK WITH EXISTING CONDITIONS. SEE MECHANICAL FOR RELATED INFORMATION.

(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT PROVIDE NEW DOMESTIC WATER PIPING.

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
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FIRE PROTECTION ENGINEER
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312 SW 25th Street, Oklahoma City, OK 73109, (405) 842-6100
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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS, LICENSED, 22162, 7/10/2019, KANSAS, PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY PLAN - BASEMENT WING A FLOOR PLAN

PROJECT PHASE: BID DOCUMENTS

APPROVED: PROJECT DIRECTOR

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

VA PROJECT NUMBER: 589-A5-19-116

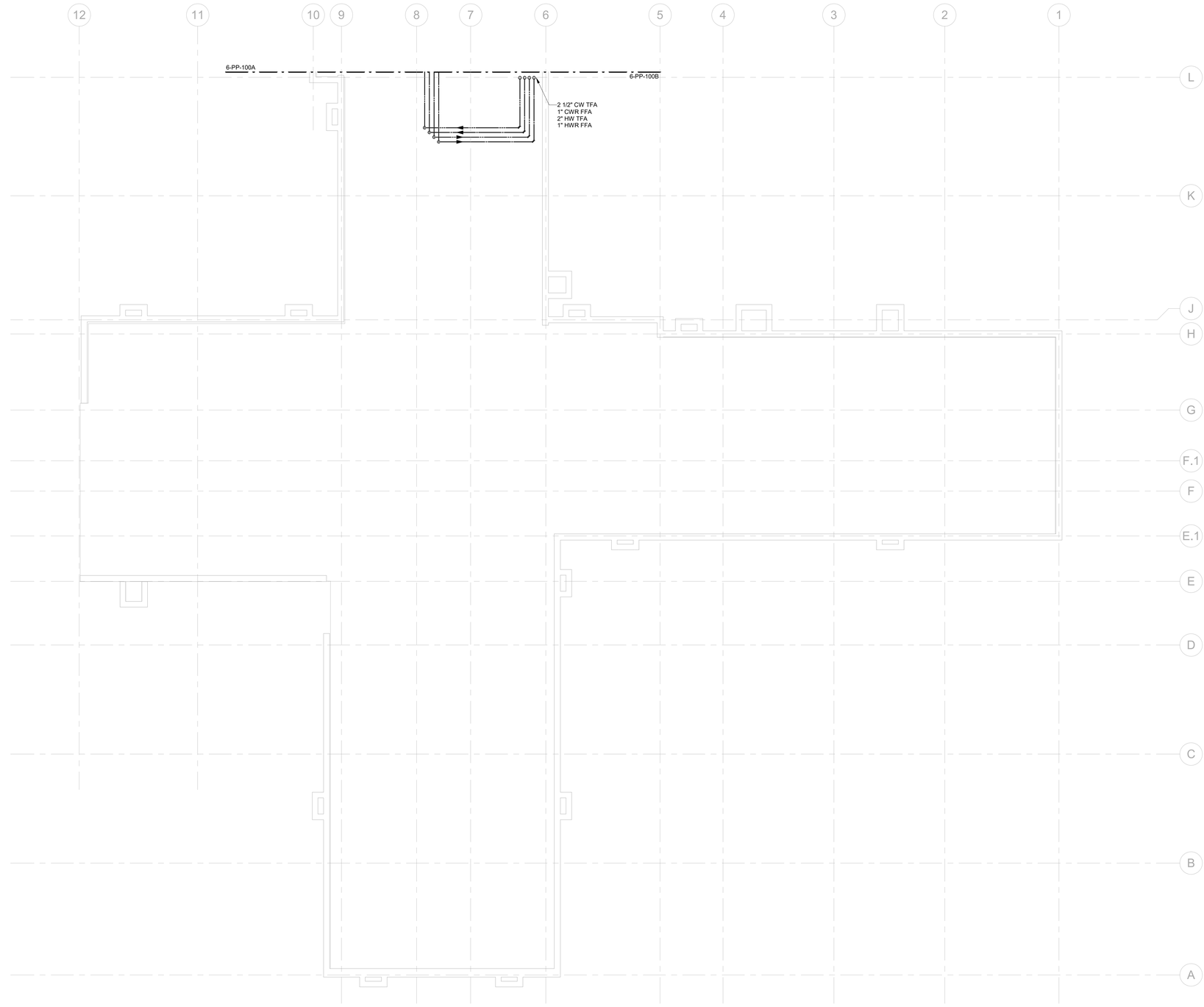
BUILDING NUMBER: 6

DRAWING NUMBER: 6-PP-100A

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

Dwg. 72 OF 160

VA FORM 08-6231



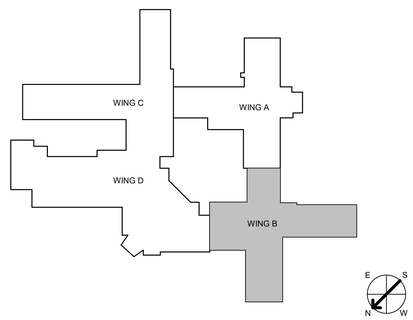
GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.



1 PLUMBING SUPPLY PLAN - BASEMENT WING B FLOOR PLAN

1/8" = 1'-0"

three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
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11827 W. 112TH STREET, SUITE 200
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FIRE PROTECTION ENGINEER
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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY PLAN - BASEMENT WING B FLOOR PLAN

PROJECT PHASE: BID DOCUMENTS

APPROVED: PROJECT DIRECTOR

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-PP-100B

Dwg. 73 OF 160

VA FORM 08-6231

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 INSTALL DOMESTIC WATER PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

2 PROVIDE TEMPERATURE SENSOR DOWNSTREAM OF COLD WATER SHUT-OFF VALVE.

3 PROVIDE TEMPERATURE SENSOR DOWNSTREAM OF HOT WATER SHUT-OFF VALVE.

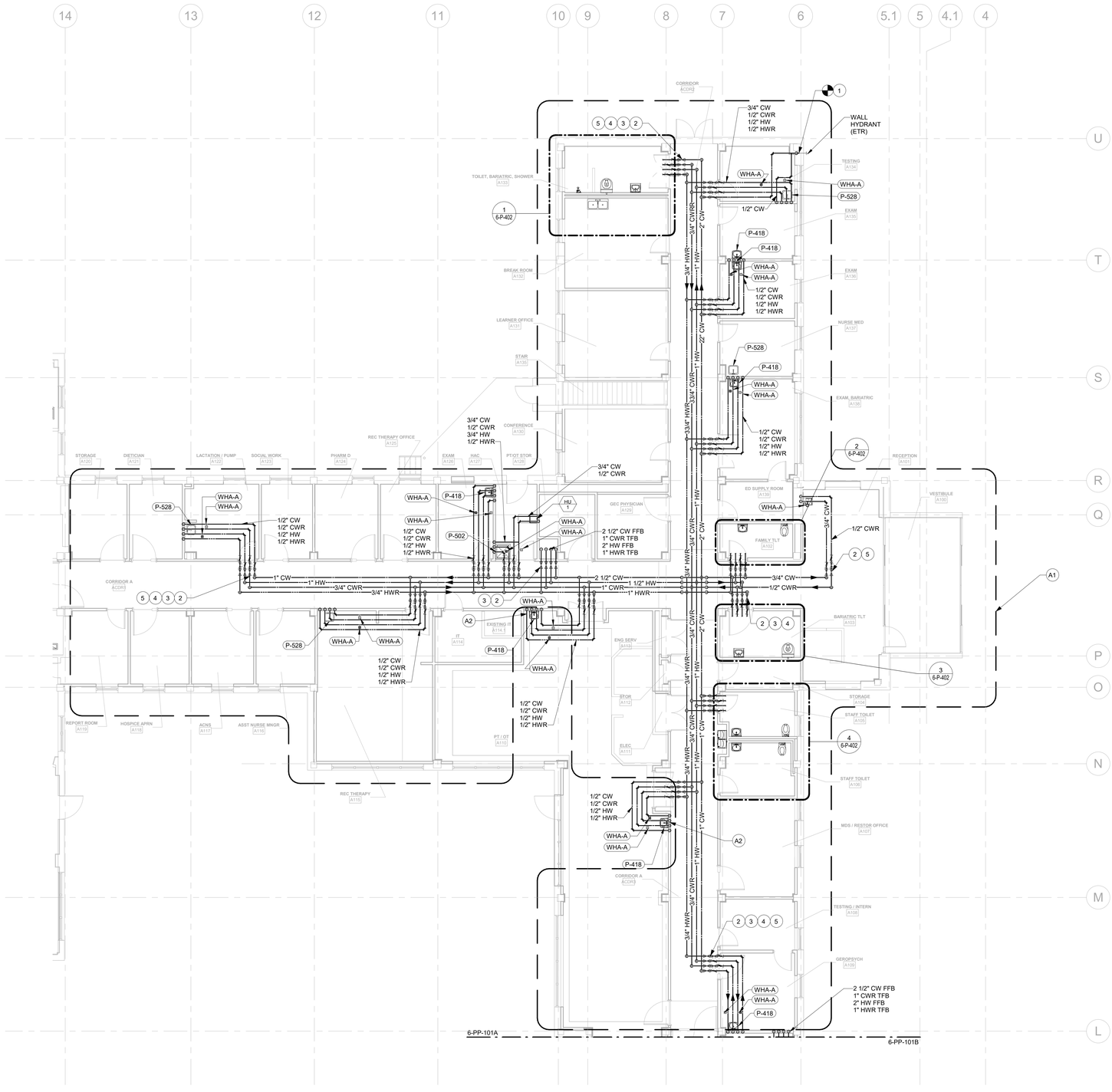
4 PROVIDE 0.5 GPM FLOW CONTROL VALVE ON HOT WATER RECIRCULATION LINES. ALL OTHER FLOW CONTROL VALVES SHALL BE 0.3 GPM UNLESS OTHERWISE NOTED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET 6-P-601 FOR RELATED INFORMATION.

5 PROVIDE 0.5 GPM FLOW CONTROL VALVE ON COLD WATER RECIRCULATION LINES. ALL OTHER FLOW CONTROL VALVES SHALL BE 0.3 GPM UNLESS OTHERWISE NOTED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET 6-P-601 FOR RELATED INFORMATION.

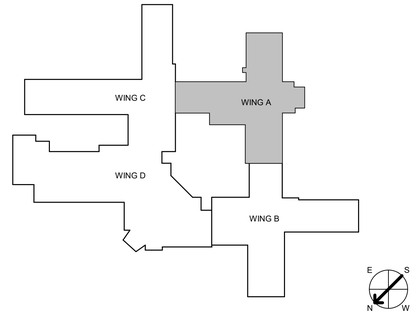
(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED: DO NOT PROVIDE NEW PLUMBING FIXTURES AND ASSOCIATED DOMESTIC WATER PIPING.

A2. IF DEDUCT ALTERNATE IS ACCEPTED: PROVIDE NEW DOMESTIC WATER PIPING AND CONNECT TO EXISTING BELOW FLOOR.



1 PLUMBING SUPPLY PLAN - LEVEL 1 WING A FLOOR PLAN
1/8" = 1'-0"



Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
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11627 W. 112TH STREET, SUITE 200
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FIRE PROTECTION ENGINEER
POOLE FIRE PROTECTION, INC.
19910 W. 161ST STREET
OLATH, KS 66062
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ARCHITECT

spur DESIGN
512 NW 20th Street, Oklahoma City, OK 73109, spur-design.com
11020 King Street, Suite 350, Overland Park, KS 66210, spur-design.com

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

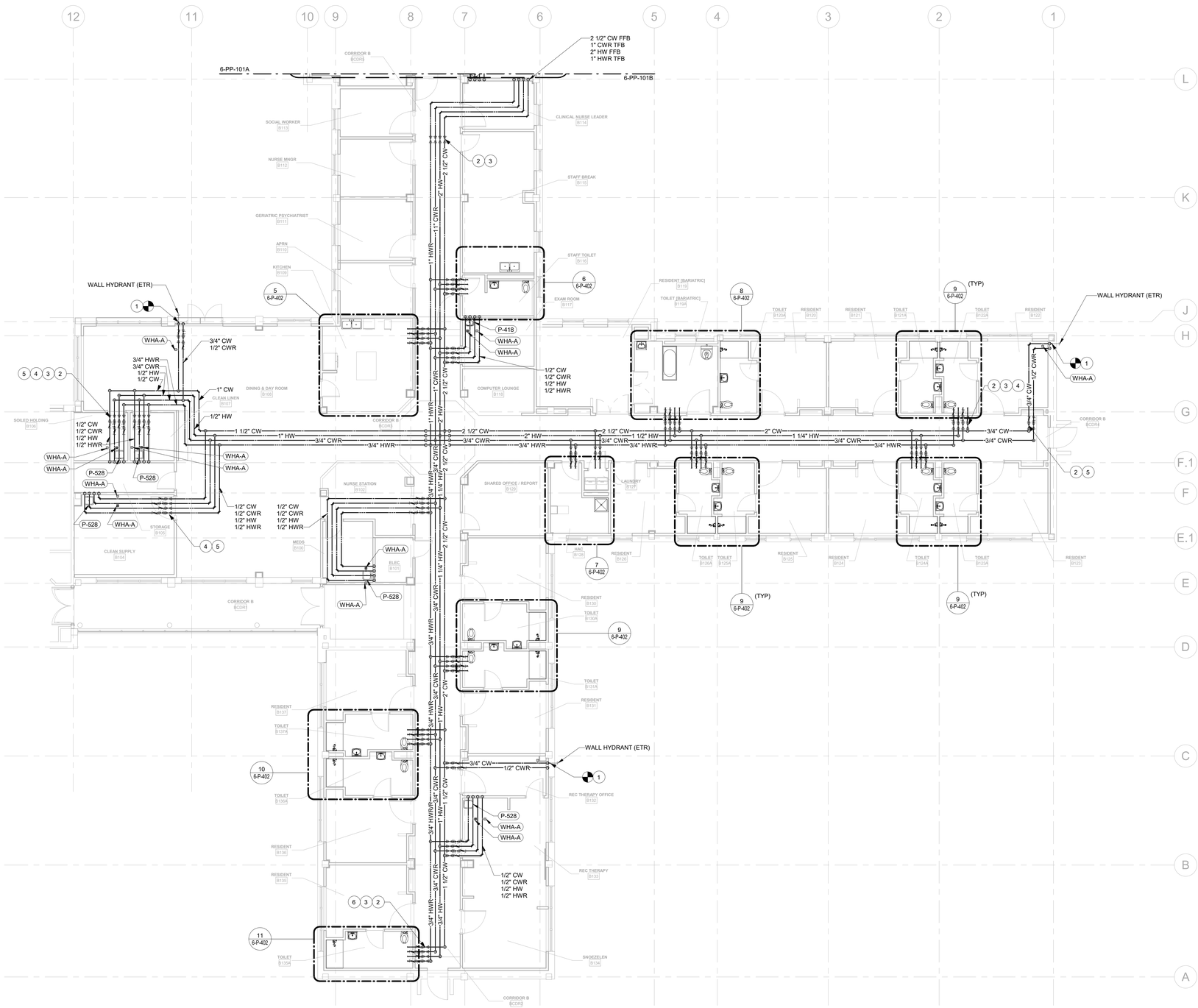
JOHN E. SONNEN, LICENSED, 22162, 7/10/2019, PROFESSIONAL ENGINEER, KANSAS

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY PLAN - LEVEL 1 WING A FLOOR PLAN	PROJECT PHASE: BID DOCUMENTS
APPROVED: PROJECT DIRECTOR	FULLY SPRINKLERED
PROJECT TITLE: RENOVATE A & B WING BUILDING 6	VA PROJECT NUMBER: 589-A5-19-116
PROJECT LOCATION: 2200 SW GAGE BLVD TOPEKA, KS 66622	BUILDING NUMBER: 6
DATE: 07/10/2019	CHECKED BY: JES
DRAWN BY: RLC	DRAWING NUMBER: 6-PP-101A
	Dwg. 74 OF 160

VA FORM 08-6231



GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 INSTALL DOMESTIC WATER PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

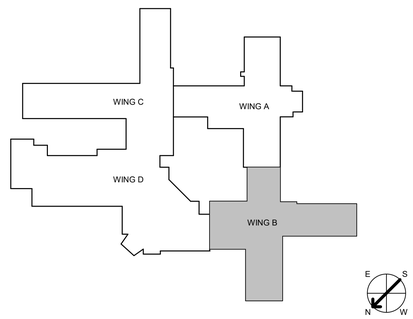
2 PROVIDE TEMPERATURE SENSOR DOWNSTREAM OF COLD WATER SHUT-OFF VALVE.

3 PROVIDE TEMPERATURE SENSOR DOWNSTREAM OF HOT WATER SHUT-OFF VALVE.

4 PROVIDE 0.5 GPM FLOW CONTROL VALVE ON HOT WATER RECIRCULATION LINES. ALL OTHER FLOW CONTROL VALVES SHALL BE 0.3 GPM UNLESS OTHERWISE NOTED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET 6-P-601 FOR RELATED INFORMATION.

5 PROVIDE 0.5 GPM FLOW CONTROL VALVE ON COLD WATER RECIRCULATION LINES. ALL OTHER FLOW CONTROL VALVES SHALL BE 0.3 GPM UNLESS OTHERWISE NOTED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET 6-P-601 FOR RELATED INFORMATION.

6 PROVIDE 0.7 GPM FLOW CONTROL VALVE ON HOT/COLD WATER RECIRCULATION LINES. ALL OTHER FLOW CONTROL VALVES SHALL BE 0.3 GPM UNLESS OTHERWISE NOTED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET 6-P-601 FOR RELATED INFORMATION.



1 PLUMBING SUPPLY PLAN - LEVEL 1 WING B FLOOR PLAN

1/8" = 1'-0"

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
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JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

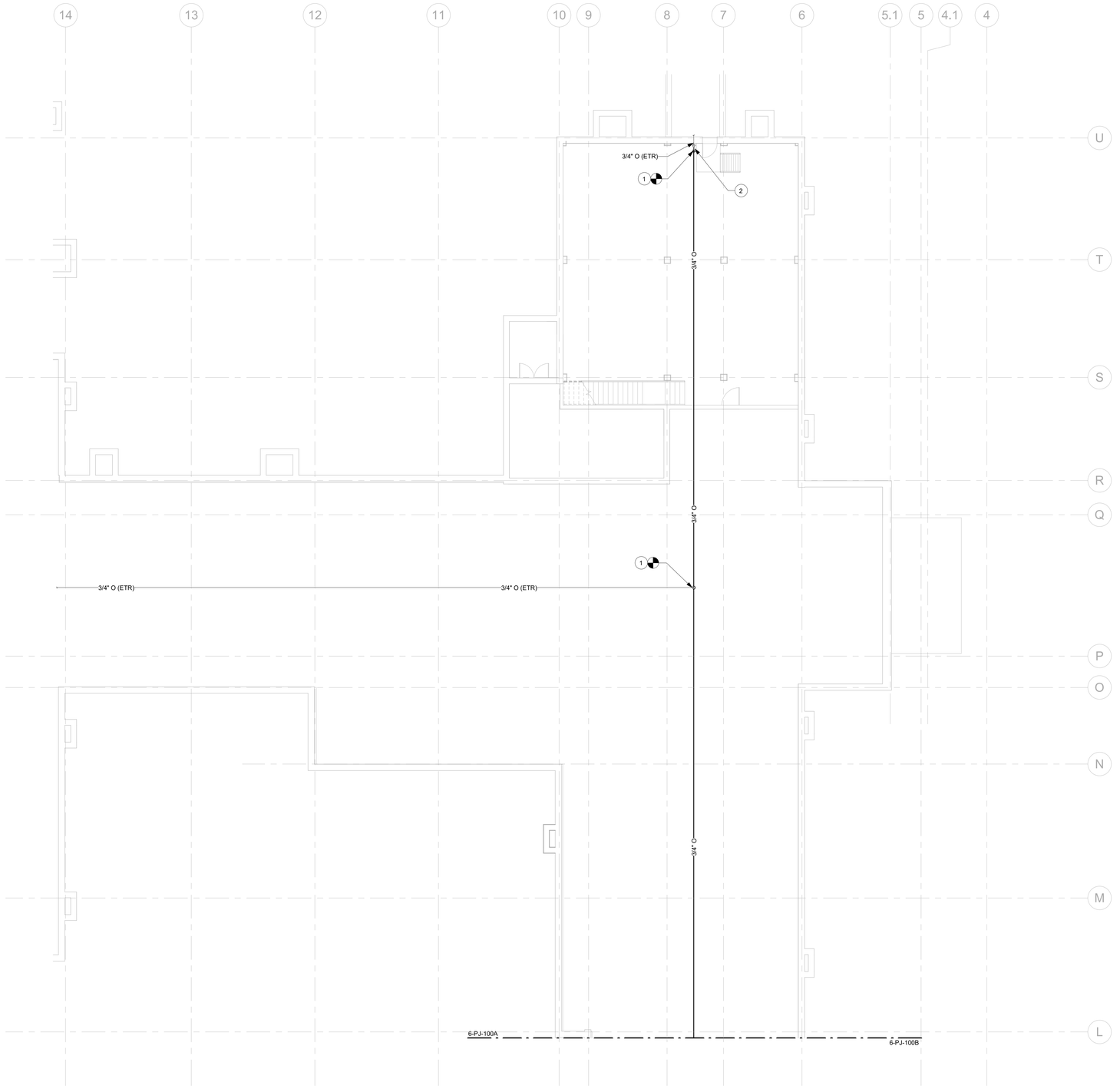
Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SUPPLY PLAN - LEVEL 1 WING B FLOOR PLAN	PROJECT PHASE: BID DOCUMENTS
APPROVED: PROJECT DIRECTOR	FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6		VA PROJECT NUMBER: 589-A5-19-116
PROJECT LOCATION: 2200 SW GAGE BLVD TOPEKA, KS 66622		BUILDING NUMBER: 6
DATE: 07/10/2019	CHECKED BY: JES / DRAWN BY: RLC	DRAWING NUMBER: 6-PP-101B
		Dwg. 75 OF 160

VA FORM 08-6231



1 MEDICAL GAS PLAN - BASEMENT WING A FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. POSITIVE PRESSURE PATIENT MEDICAL GAS PIPING SHALL NOT BE BREACHED OR PENETRATED BY ANY MEANS OR PROCESS THAT WILL RESULT IN RESIDUAL COPPER PARTICLES OR OTHER DEBRIS REMAINING IN THE PIPING, OR THAT AFFECTS THE OXYGEN-CLEAN INTERIOR OF THE PIPING. IF BREACHING OR PENETRATING THE MEDICAL GAS PIPING IS REQUIRED, THE PROCESS SHALL ENSURE THAT ANY DEBRIS CREATED BY THE PROCESS REMAINS CONTAINED WITHIN THE WORK AREA.
6. ALL VALVES IN THE MEDICAL GAS SYSTEMS SHALL BE QUARTER TURN OFF WITH INDICATION OF WHETHER THE VALVE IS OPEN OR CLOSED. A LABEL SHALL BE PROVIDED ON ALL VALVES INDICATING THE TYPE OF SERVICE, THE AREA(S) OR ROOM(S) SERVED, AND A WARNING THAT THE VALVE SHALL NOT BE OPENED OR CLOSED EXCEPT FOR EMERGENCY SITUATIONS.
7. HOT TAPS OR SIMILAR VALVE ASSEMBLIES ARE NOT PERMITTED IN MEDICAL GAS PIPING SYSTEMS.
8. EACH NEW FITTING, VALVE, AND LENGTH OF NEW MEDICAL GAS TUBING SHALL BE CLEANED, CAPPED, AND SEALED BY THE MANUFACTURER UNTIL PREPARED FOR INSTALLATION. ALL COMPONENTS SHALL BE CONSTRUCTED OF TYPE K COPPER.
9. IDENTIFY AREA ALARM(S) SHOWN WITH THE NAME OF THE MEDICAL GASES BEING SERVED AND THE AREAS MONITORED BY THE ALARM PANEL.
10. STATION OUTLET / INLET ASSEMBLIES MUST BE SELECTED SUCH THAT GAS-SPECIFIC COMPONENTS CANNOT BE INTERCHANGED BETWEEN THE STATION OUTLET / INLET FOR DIFFERENT GASES.
11. ALL NEW MEDICAL GAS BRANCH PIPING TO ROOM OUTLET / INLET ASSEMBLIES IS 3/4" UNLESS NOTED OTHERWISE. 1/2" BRANCH PIPING TO INDIVIDUAL OUTLETS / INLETS IS PERMITTED.

DEDUCT ALTERNATE & PHASING:

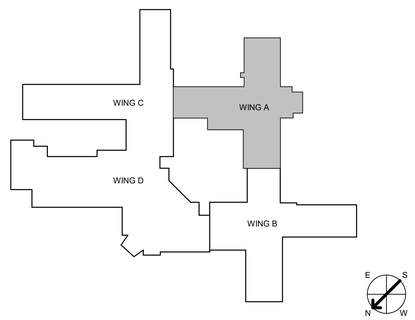
ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 CONNECT TO EXISTING MEDICAL GAS SYSTEM AT LOCATION SHOWN.

2 PROVIDE A MAIN LINE SHUTOFF VALVE INSIDE OF THE BUILDING SERVED IN THE LOCATION SHOWN.



Revision #	Date

CONSULTANT INFORMATION

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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE
MEDICAL GAS PLAN - BASEMENT WING A FLOOR PLAN

PROJECT PHASE
BID DOCUMENTS

APPROVED: PROJECT DIRECTOR

FULLY SPRINKLERED

PROJECT TITLE
RENOVATE A & B WING BUILDING 6

PROJECT LOCATION
2200 SW GAGE BLVD
TOPEKA, KS 66622

VA PROJECT NUMBER
589-A5-19-116

BUILDING NUMBER
6

DRAWING NUMBER
6-PJ-100A

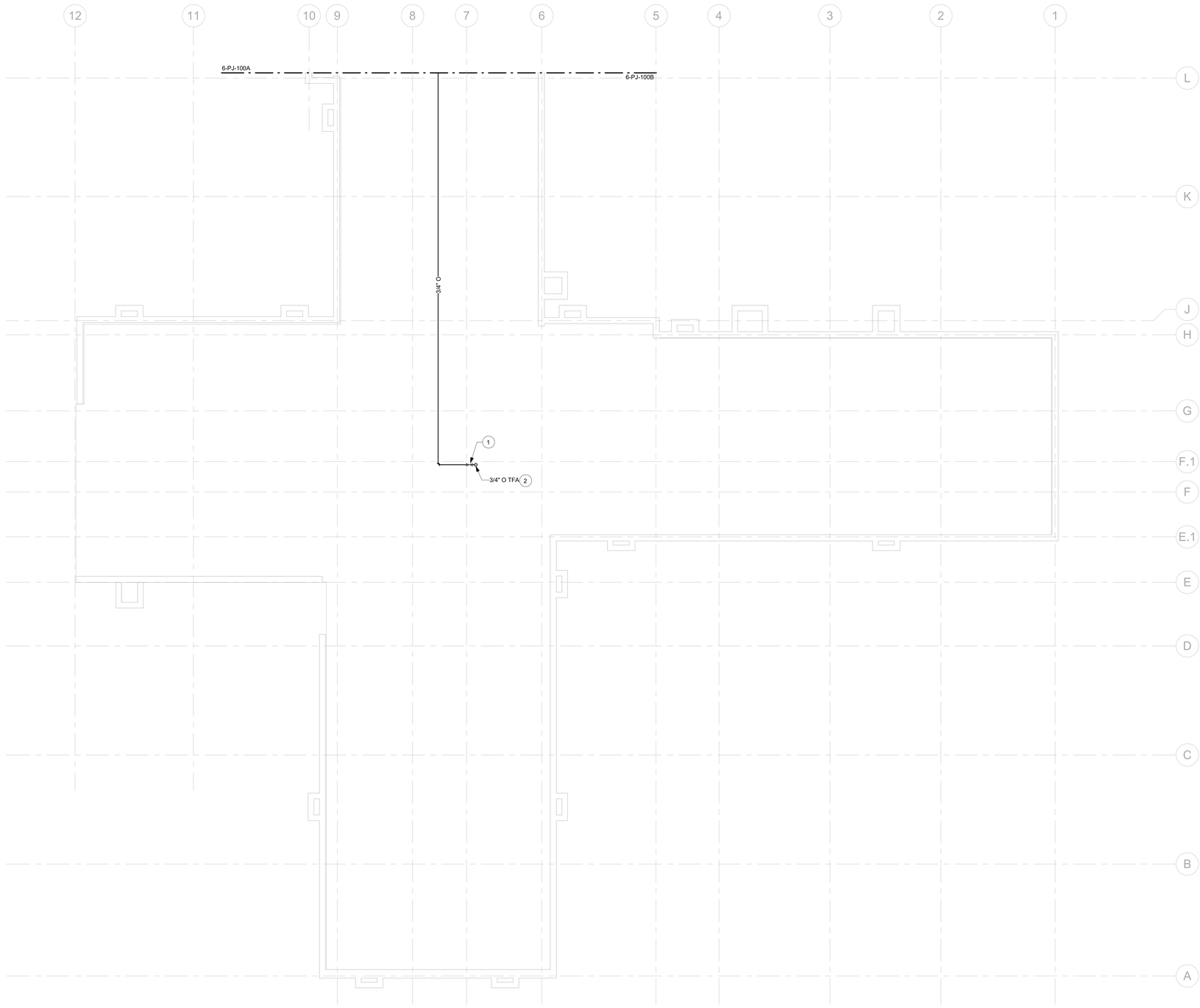
DATE
07/10/2019

CHECKED BY
JES

DRAWN BY
RLC

Dwg. 76 OF 160

VA FORM 08-6231



GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
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7. HOT TAPS OR SIMILAR VALVE ASSEMBLIES ARE NOT PERMITTED IN MEDICAL GAS PIPING SYSTEMS.
8. EACH NEW FITTING, VALVE, AND LENGTH OF NEW MEDICAL GAS TUBING SHALL BE CLEANED, CAPPED, AND SEALED BY THE MANUFACTURER UNTIL PREPARED FOR INSTALLATION. ALL COMPONENTS SHALL BE CONSTRUCTED OF TYPE K COPPER.
9. IDENTIFY AREA ALARM(S) SHOWN WITH THE NAME OF THE MEDICAL GASES BEING SERVED AND THE AREAS MONITORED BY THE ALARM PANEL.
10. STATION OUTLET / INLET ASSEMBLIES MUST BE SELECTED SUCH THAT GAS-SPECIFIC COMPONENTS CANNOT BE INTERCHANGED BETWEEN THE STATION OUTLET / INLET FOR DIFFERENT GASES.
11. ALL NEW MEDICAL GAS BRANCH PIPING TO ROOM OUTLET / INLET ASSEMBLIES IS 3/4" UNLESS NOTED OTHERWISE. 1/2" BRANCH PIPING TO INDIVIDUAL OUTLETS / INLETS IS PERMITTED.

DEDUCT ALTERNATE & PHASING:

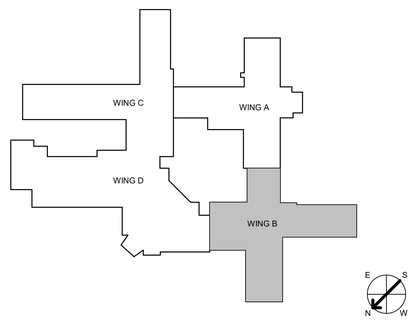
ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 PROVIDE A RISER VALVE ADJACENT TO THE MAIN LINE PIPING SYSTEM IN THE LOCATION(S) SHOWN.

2 ROUTE MEDICAL GAS PIPING TO ZONE VALVE BOX ABOVE.



1 MEDICAL GAS PLAN - BASEMENT WING B FLOOR PLAN

1/8" = 1'-0"

Revision #	Date

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KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: MEDICAL GAS PLAN - BASEMENT WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

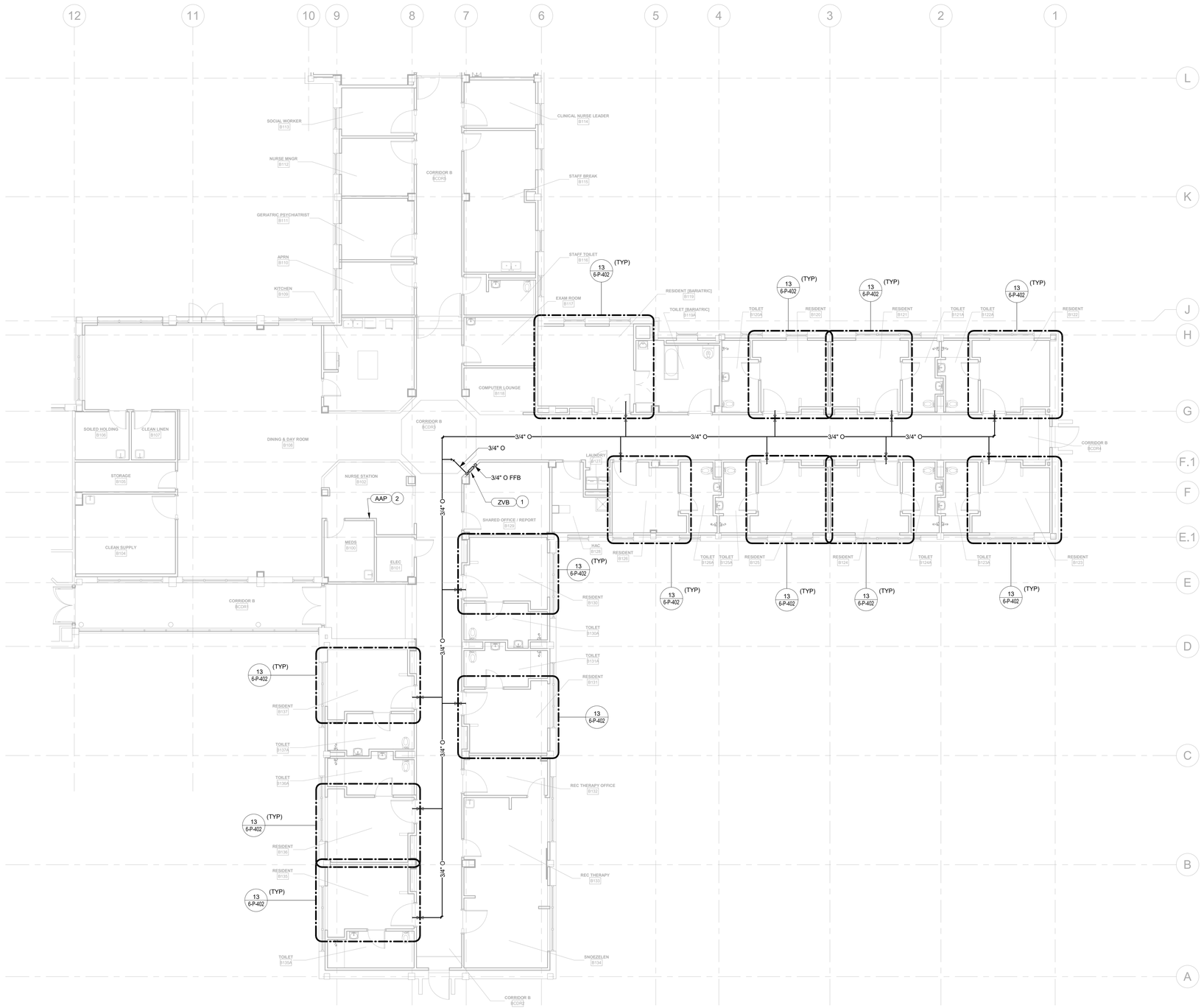
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-PJ-100B

Dwg. 77 OF 160

VA FORM 08-6231



1 MEDICAL GAS PLAN - LEVEL 1 WING B FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
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DEDUCT ALTERNATE & PHASING:

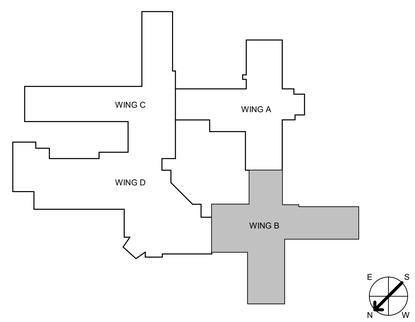
ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 INSTALL A 1-VALVE ZONE VALVE BOX ASSEMBLY FOR THE MEDICAL GAS PIPING SYSTEMS IN THE LOCATION SHOWN. REFER TO DETAIL 10/6-P-502 AND SPECIFICATIONS 22 62 00 / 22 63 00 FOR ADDITIONAL REQUIREMENTS.

2 PROVIDE AN AREA ALARM PANEL AT NURSES STATION IN LOCATION SHOWN WITH GAS-SPECIFIC TRANSDUCERS FOR OXYGEN. PROVIDE HIGH AND LOW PRESSURE ALARM CONTACTS FOR CONNECTION TO THE BMS FOR ALARM MONITORING. REFER TO SPECIFICATIONS 22 62 00 / 22 63 00 FOR ADDITIONAL REQUIREMENTS.



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KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: MEDICAL GAS PLAN - LEVEL 1 WING B FLOOR PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

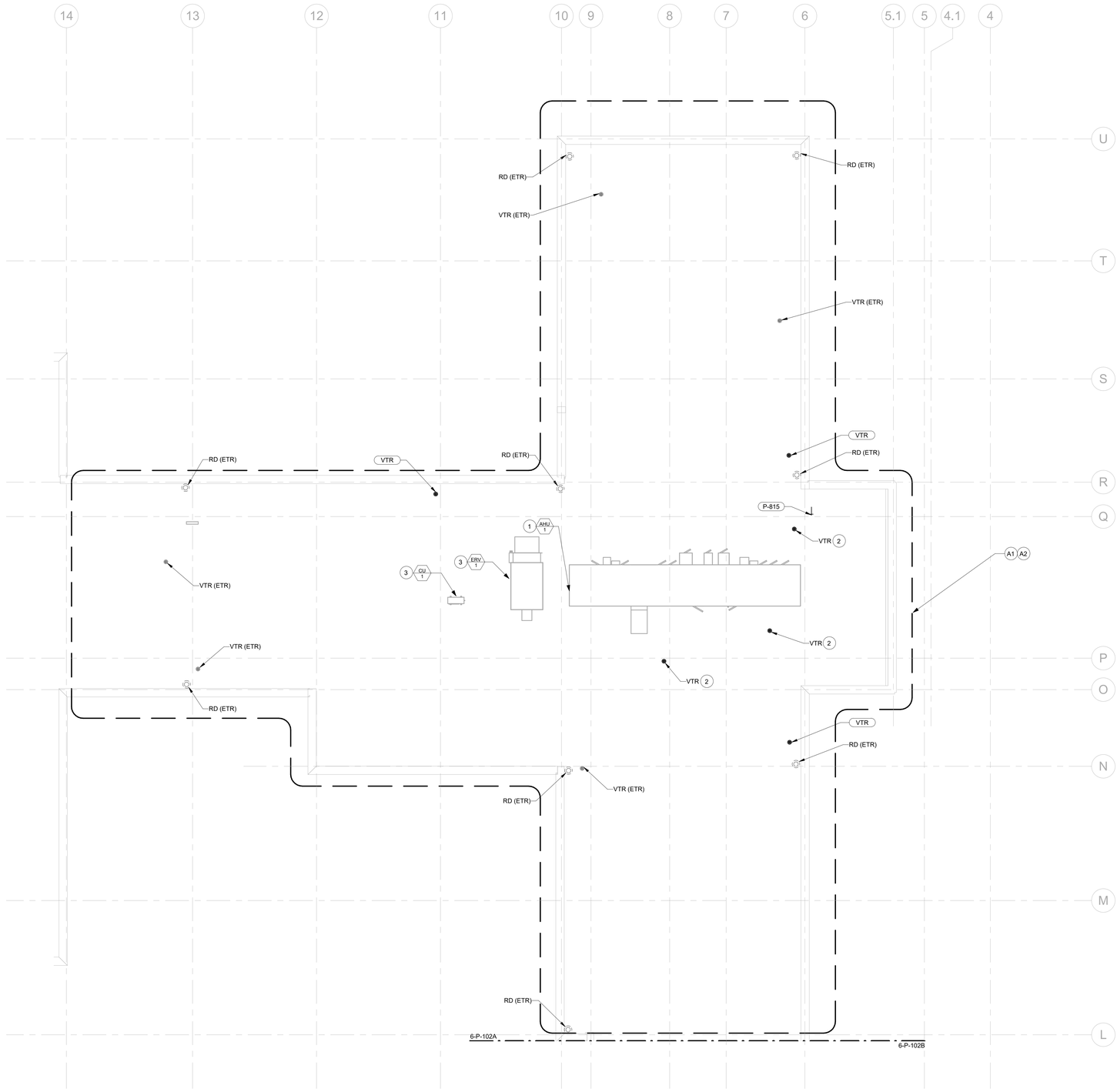
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-PJ-101B

Dwg. 78 OF 160

VA FORM 08-6231



1 PLUMBING PLAN - WING A ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. THE AREA OF WORK SHOWN IS ASSOCIATED WITH AN OPERATING FACILITY THAT MUST REMAIN IN SERVICE 24/7.
2. SEE SHEET GI-001 FOR ADDITIONAL INFORMATION REGARDING SCHEDULE AND PHASING REQUIREMENTS. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES.
3. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) BEFORE THE START OF WORK.
4. COORDINATE PLUMBING WORK WITH OTHER TRADES AND CONTRACTORS. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.
5. COORDINATE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION AND REPLACEMENT OF STORM PIPE.
6. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.
7. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

DEDUCT ALTERNATE & PHASING:

ALL PLAN WORK SHOWN ON THIS SHEET IS SUBJECT TO THE OVERALL PROJECT PHASING SEQUENCE OUTLINED ON ARCHITECTURAL SHEET 6-GI-102.

IN ADDITION, IF THE DEDUCT ALTERNATE IS ELECTED, ALL PLAN WORK ON THIS SHEET IS ALSO SUBJECT TO THE REDUCED AREAS OF WORK AS DEFINED ON ARCHITECTURAL SHEET 6-GI-105.

(#) PLUMBING PLAN NOTES:

1 SEE MECHANICAL FOR NEW AHU LOCATION. COORDINATE VENT TERMINATIONS AND ROOF DRAINS TO ACCOMMODATE TO AHU.

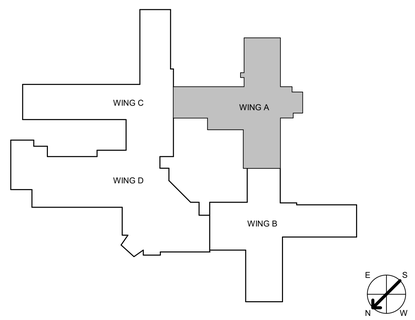
2 DEMOLISH EXISTING VENT THOUGH ROOF.

3 SEE MECHANICAL FOR EQUIPMENT LOCATIONS AND SCHEDULES.

(#) DEDUCT ALTERNATE NOTES:

A1. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT DEMOLISH EXISTING VENTS THROUGH ROOF.

A2. IF DEDUCT ALTERNATE IS ACCEPTED, DO NOT PROVIDE NEW VENTS THROUGH ROOF.



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JOHN E. SOMMERS — LICENSED — 22162 — 7/10/2019 — KANSAS — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING PLAN - WING A ROOF PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

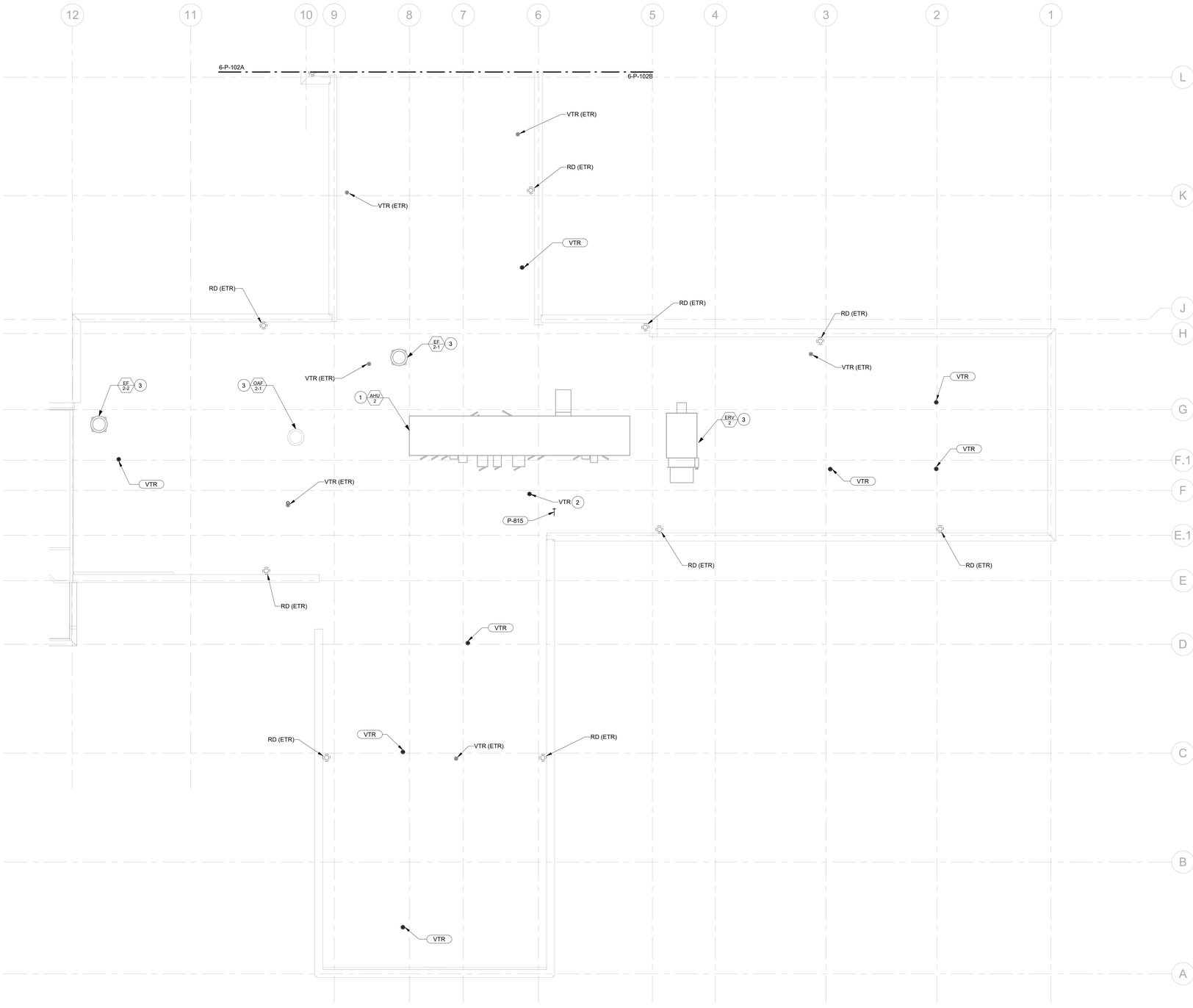
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-P-102A

Dwg. 79 OF 160

VA FORM 08-6231



GENERAL NOTES:

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6. THE DEMOLITION DRAWINGS ARE DEEMED SCHEMATIC. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING DEMOLITION WORK PRIOR TO SUBMISSION OF PROPOSAL.
7. ALL PLUMBING FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

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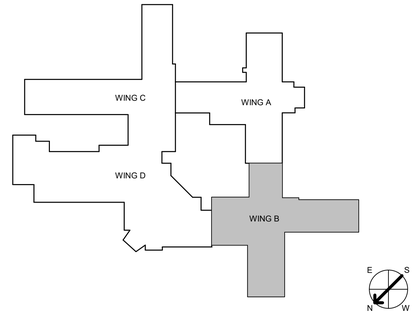
(#) PLUMBING PLAN NOTES:

1 SEE MECHANICAL FOR NEW AHU LOCATION. COORDINATE VENT TERMINATIONS AND ROOF DRAINS TO ACCOMMODATE TO AHU.

2 DEMOLISH EXISTING VENT THOUGH ROOF.

3 SEE MECHANICAL FOR EQUIPMENT LOCATIONS AND SCHEDULES.



1 PLUMBING PLAN - WING B ROOF PLAN

1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING PLAN - WING B ROOF PLAN

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

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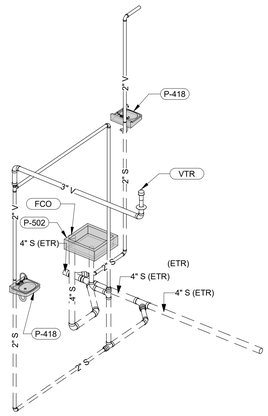
BUILDING NUMBER: 6

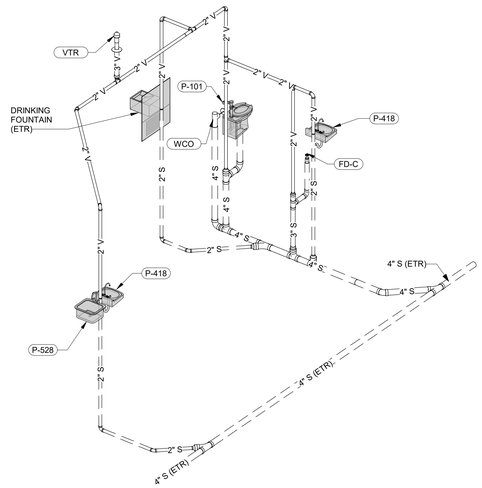
DRAWING NUMBER: 6-P-102B

Dwg. 80 OF 160

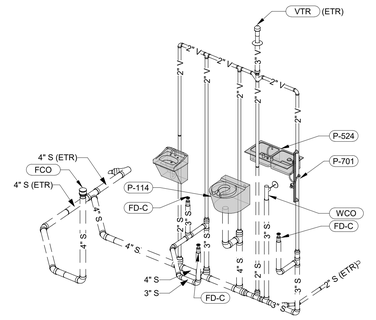
VA FORM 08-6231



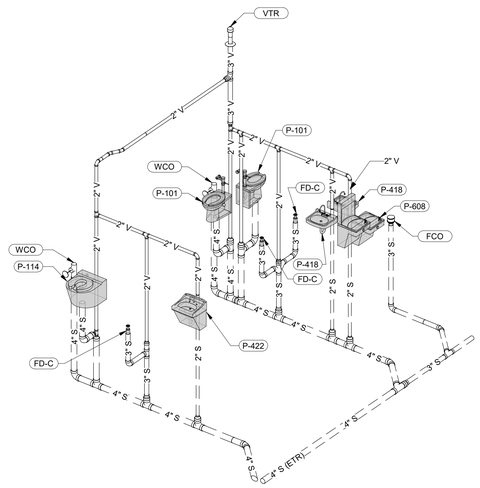
5 PT/OT (A110), EXAM (A126), AND HAC (A127)



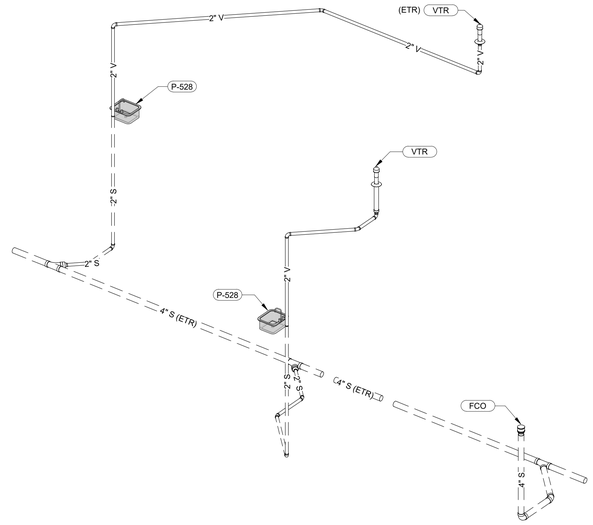
3 RECEPTION (A101), FAMILY TOILET (A102), NURSE MED (A137), AND BARIATRIC EXAM (A138)



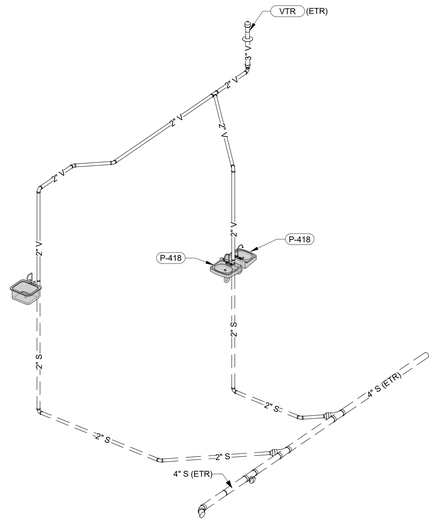
1 BREAK ROOM (A132) AND BARIATRIC TOILET (A133)



6 BARIATRIC TOILET (A103), STAFF TOILETS (A105 & A106)



4 REC THERAPY (A115) AND LACTATION/PUMP (A122)



2 TESTING (A134) AND EXAMS (A135 & A136)

Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
STAND STRUCTURAL ENGINEERING
11827 W. 112TH STREET, SUITE 200
OVERLAND PARK, KS 66210
(913) 214-2169

MECHANICAL / ELECTRICAL / PLUMBING / TECHNICAL ENGINEER
SPUR DESIGN
11020 KING STREET, SUITE 350
OVERLAND PARK, KS 66210
(405) 842-6100

FIRE PROTECTION ENGINEER
POOLE FIRE PROTECTION, INC.
19910 W. 161ST STREET
OLATH, KS 66062
(913) 829-8650

ARCHITECT

spur DESIGN
312 SW 25th Street, Oklahoma City, OK 73109
11020 King Street, Suite 350, Overland Park, KS 66210

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SCHAMBER LICENSED 22162 7/10/2019 PROFESSIONAL ENGINEER KANSAS

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING RISER DIAGRAMS

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

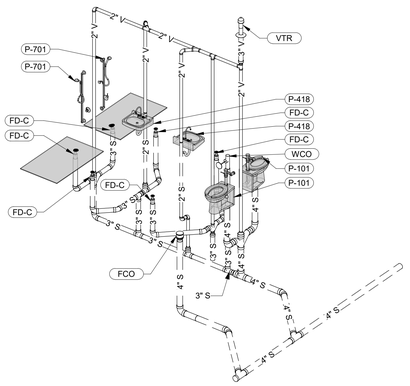
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

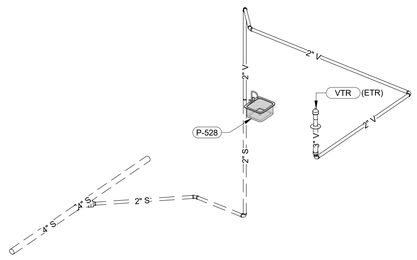
DRAWING NUMBER: 6-P-301

Dwg. 81 OF 160

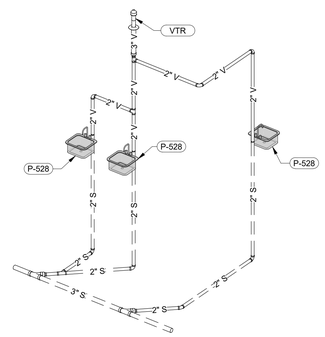
VA FORM 08-6231



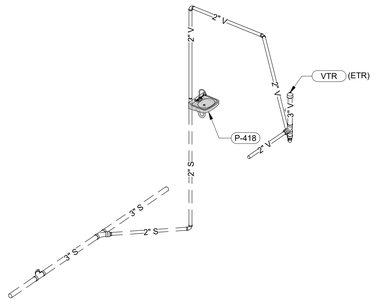
10 TOILETS (B130A & B131A)



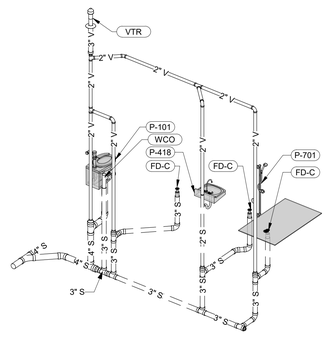
7 MEDS (B100)



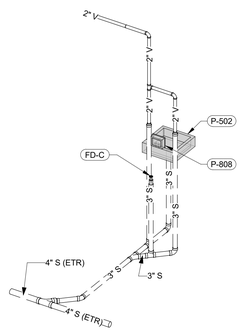
4 CLEAN SUPPLY (B104), SOILED HOLDING (B106), AND CLEAN LINEN (B107)



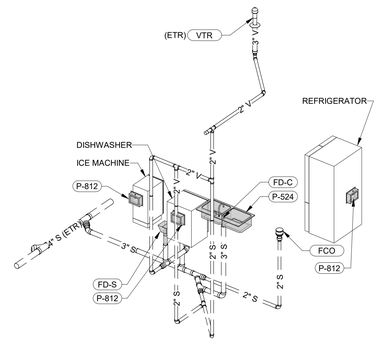
1 PT/OT (A110)



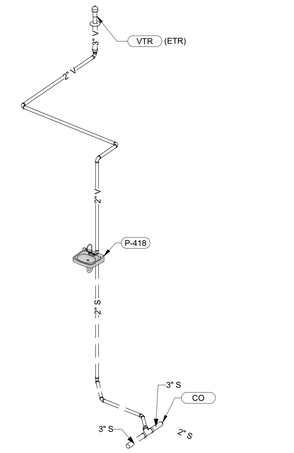
11 TOILET (B135A)



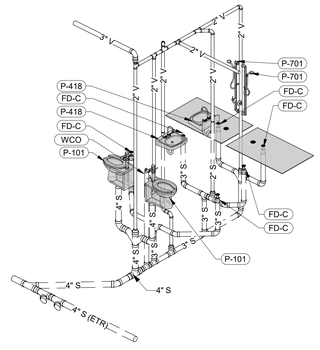
8 LAUNDRY (B127) AND HAC (B128)



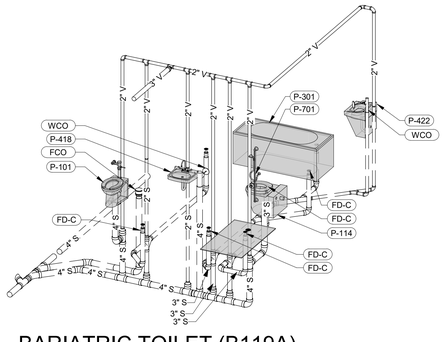
5 KITCHEN (B109)



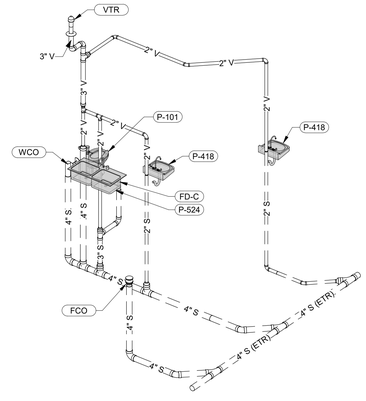
2 GEROPSYCH (A109)



9 TOILET (B125A & B126A)



6 BARIATRIC TOILET (B119A) AND TOILET (B120A)



3 STAFF BREAK (B115) AND STAFF TOILET (B116)

Revision #	Date

CONSULTANT INFORMATION

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ARCHITECT

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spur-design.com

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING RISER DIAGRAMS

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019

CHECKED BY: JES

DRAWN BY: RLC

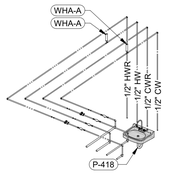
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

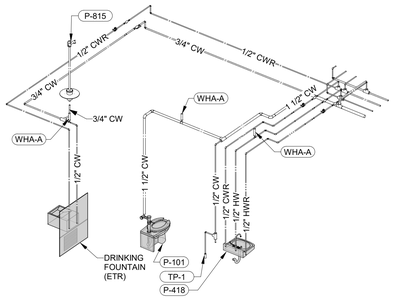
DRAWING NUMBER: 6-P-302

Dwg. 82 OF 160

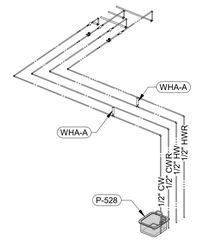
VA FORM 08-6231



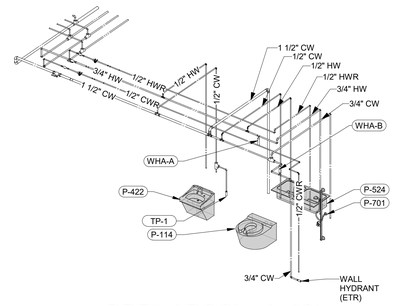
13 GEROPSYCH (A109)



9 FAMILY TOILET (A102) AND RECEPTION (A101)

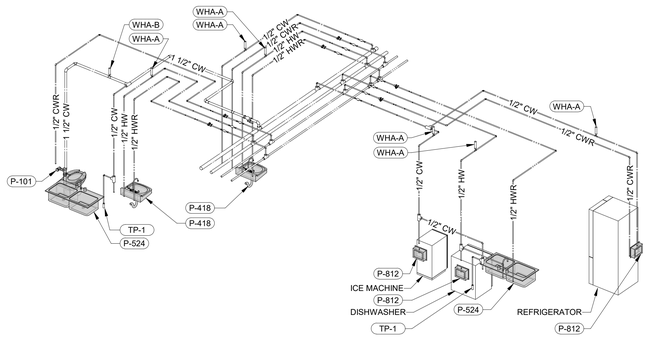


5 LACTATION/PUMP (A122)

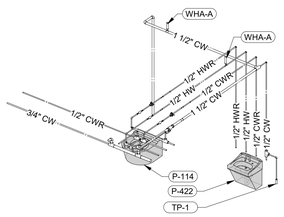


BREAK ROOM (A132)
AND BARIATRIC TOILET (A133)

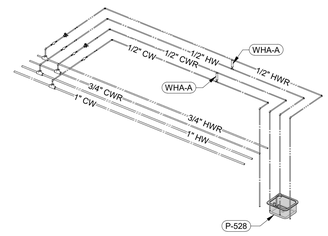
1



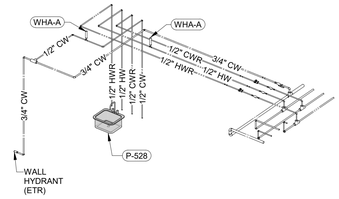
14 KITCHEN (B109), STAFF BREAK (B115),
STAFF TOILET (B116), AND EXAM ROOM (B117)



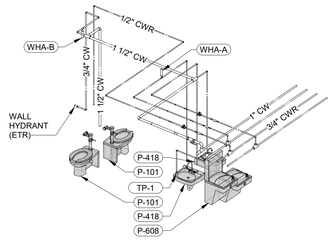
10 BARIATRIC TOILET (A103)



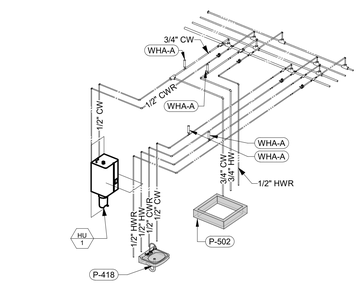
6 REC THERAPY (A115)



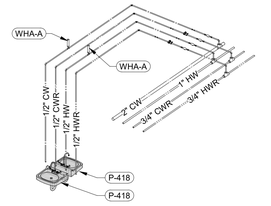
2 TESTING (A134)



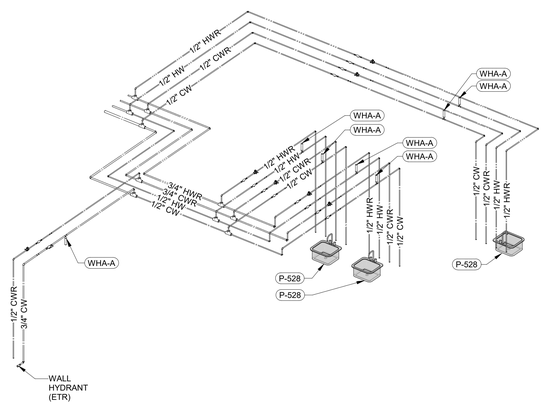
11 STAFF TOILETS (A105 & A106)



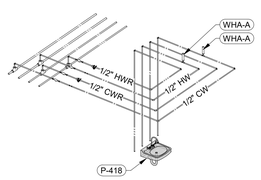
7 EXAM (A126) AND HAC (A127)



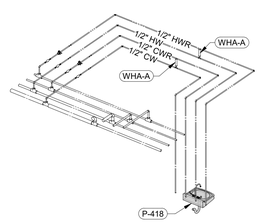
3 EXAMS (A135 & A136)



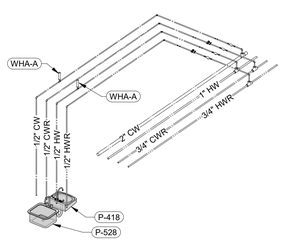
15 CLEAN SUPPLY (B104), SOILED HOLDING (B106),
CLEAN LINEN (B107), AND DINING & DAY ROOM (B108)



12 PT/OT (A110) - PLAN EAST WALL



8 PT/OT (A110) - PLAN NORTH WALL



NURSE MED (A137) AND
BARIATRIC EXAM (A138)

4

Revision #	Date

CONSULTANT INFORMATION

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FIRE PROTECTION ENGINEER
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19910 W. 161ST STREET
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11020 King Street, Suite 350, Overland Park, KS 66210, spur-design.com

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS, LICENSED, 22162, 7/10/2019, KANSAS, PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING RISER DIAGRAMS

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

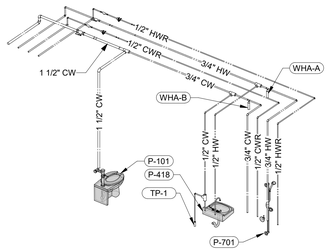
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

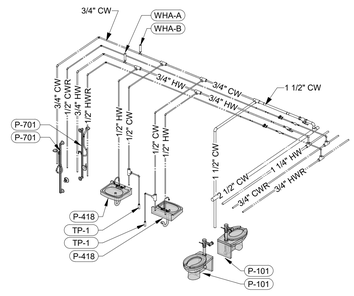
DRAWING NUMBER: 6-P-303

Dwg. 83 OF 160

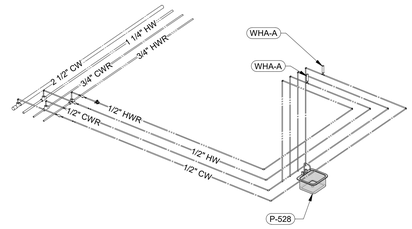
VA FORM 08-6231



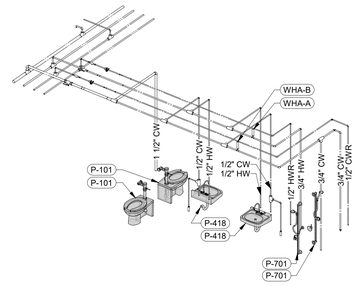
8 TOILET (B135A)



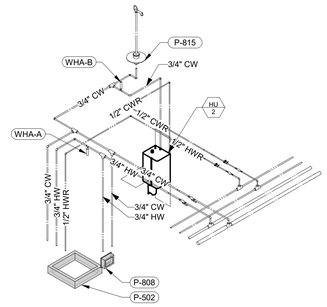
5 TOILETS (B130A & B131A)



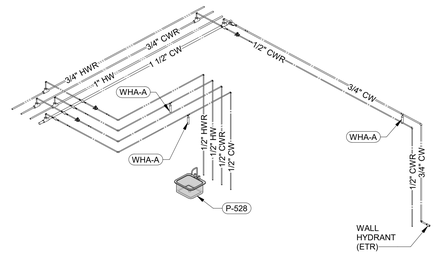
1 MEDS (B100)



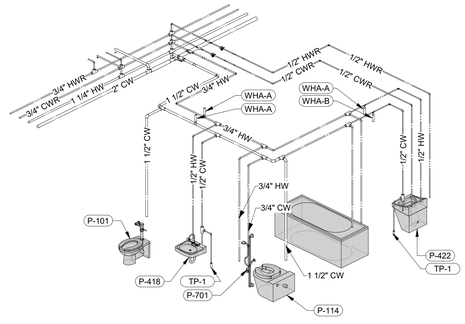
6 TOILET (B136A & 137A)



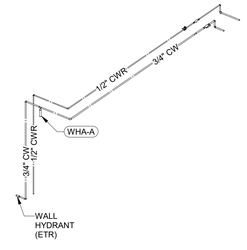
2 LAUNDRY (B127) AND HAC (B128)



7 REC THERAPY OFFICE (B132) AND REC THERAPY (B133)



3 BARIATRIC TOILET (B119A)



4 RESIDENT (B122)

Revision #	Date

CONSULTANT INFORMATION

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JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

KS ARCH REG. NO. A-1139, EXP. 12/31/2019
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Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE
PLUMBING RISER DIAGRAMS

APPROVED: PROJECT DIRECTOR

PROJECT PHASE
BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE
RENOVATE A & B WING BUILDING 6

PROJECT LOCATION
2200 SW GAGE BLVD
TOPEKA, KS 66622

DATE 07/10/2019
CHECKED BY JES
DRAWN BY RLC

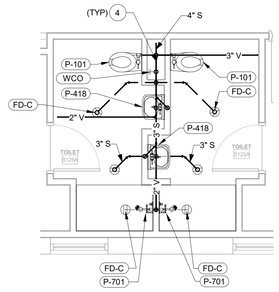
VA PROJECT NUMBER
589-A5-19-116

BUILDING NUMBER
6

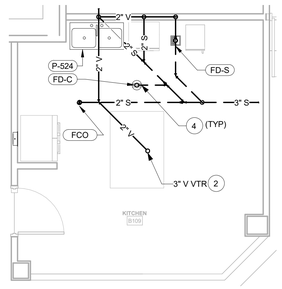
DRAWING NUMBER
6-P-304

Dwg. 84 OF 160

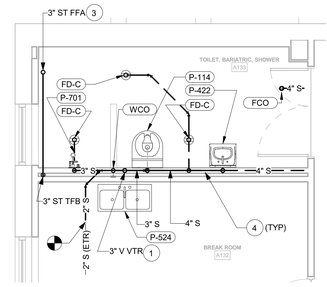
VA FORM 08-6231



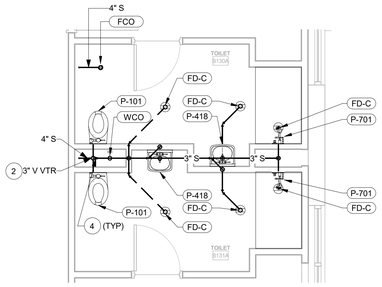
9 TOILET (B125A & B126A)
1/4" = 1'-0"



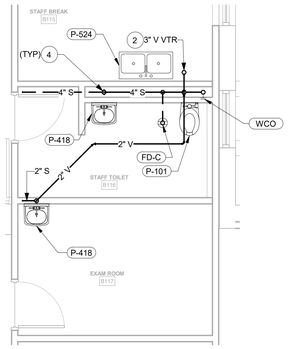
5 KITCHEN (B109)
1/4" = 1'-0"



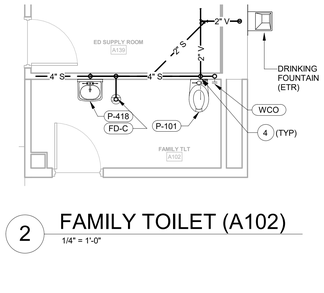
1 BREAK ROOM (A132) AND BARIATRIC TOILET (A133)
1/4" = 1'-0"



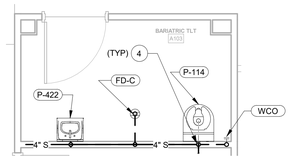
10 TOILETS (B130A & B131A)
1/4" = 1'-0"



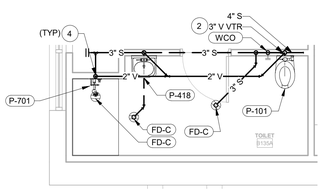
6 STAFF BREAK (B115), STAFF TOILET (B116), AND EXAM ROOM (B117)
1/4" = 1'-0"



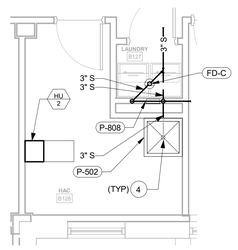
2 FAMILY TOILET (A102)
1/4" = 1'-0"



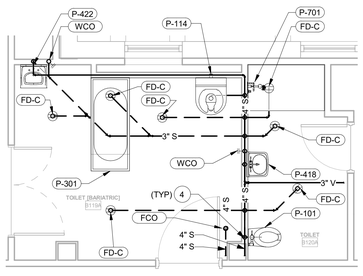
3 BARIATRIC TOILET (A103)
1/4" = 1'-0"



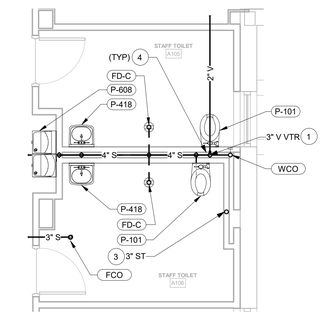
11 TOILET (B135A)
1/4" = 1'-0"



7 LAUNDRY (B127) AND HAC (B128)
1/4" = 1'-0"



8 TOILET (B119A) AND BARIATRIC TOILET (B120A)
1/4" = 1'-0"



4 STAFF TOILETS (A105 & A106)
1/4" = 1'-0"

PLUMBING PLAN NOTES:

1 INSTALL SANITARY VENT PIPING TO VENT THROUGH ROOF. PROVIDE VTR AS SHOWN ON SHEET 6-P-102A. VTR MUST BE A MINIMUM OF 25 FEET AWAY FROM ANY FRESH AIR INTAKES.

2 INSTALL SANITARY VENT PIPING TO VENT THROUGH ROOF. PROVIDE VTR AS SHOWN ON SHEET 6-P-102B. VTR MUST BE A MINIMUM OF 25 FEET AWAY FROM ANY FRESH AIR INTAKES.

3 INSTALL STORM PIPING AND CONNECT TO EXISTING ROOF DRAIN.

4 COORDINATE ALL FLOOR PENETRATIONS WITH EXISTING WAFFLE SLAB.

Revision #	Date

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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING PARTIAL PLANS

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622

DATE: 07/10/2019

CHECKED BY: JES

DRAWN BY: RLC

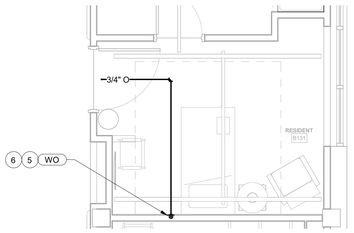
VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

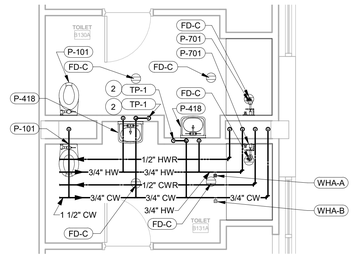
DRAWING NUMBER: 6-P-401

Dwg. 85 OF 160

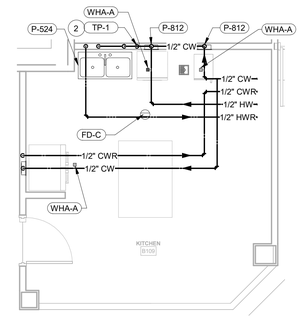
VA FORM 08-6231



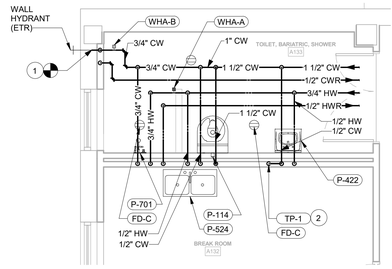
13 RESIDENT ROOM (B105)
1/4" = 1'-0"



9 TOILETS (B130A & B131A)
1/4" = 1'-0"



5 KITCHEN (B109)
1/4" = 1'-0"



1 BREAK ROOM (A132) AND BARIATRIC TOILET (A133)
1/4" = 1'-0"

PLUMBING PLAN NOTES:

1 INSTALL DOMESTIC WATER PIPING AND CONNECT TO EXISTING PIPING AT DEMARCATION POINT SHOWN.

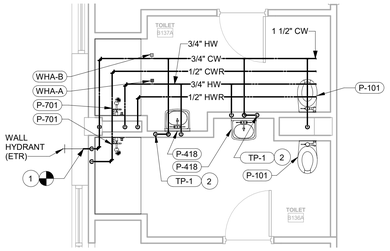
2 PROVIDE TRAP PRIMER WITH ACCESS PANEL IN LOCATION SHOWN ON ENLARGED PLAN. ROUTE TRAP PRIMER SUPPLY LINES TO FLOOR DRAINS.

3 PROVIDE TEMPERATURE SENSOR DOWNSTREAM OF DOMESTIC STEAM-WATER HEATER.

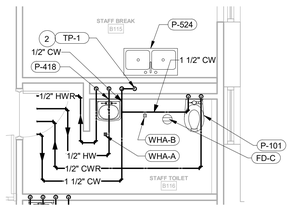
4 PROVIDE TEMPERATURE SENSOR UPSTREAM OF RECIRCULATION PUMP.

5 ROUTE MEDICAL GAS PIPING DOWN TO NEW HEADWALL AS SHOWN. COORDINATE CONNECTIONS WITH HEADWALL MANUFACTURER AND MEDICAL GAS EQUIPMENT SUPPLIER.

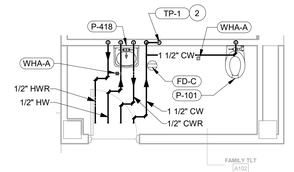
6 VERIFY OUTLET CONNECTION MANUFACTURER/TYPE WITH COR PRIOR TO SUBMISSION.



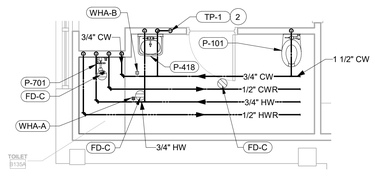
10 TOILET (B136A & B137A)
1/4" = 1'-0"



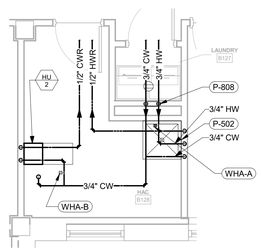
6 STAFF BREAK (B115) AND STAFF TOILET (B116)
1/4" = 1'-0"



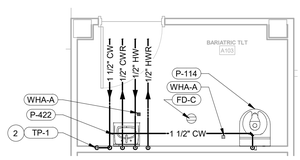
2 FAMILY TOILET (A102)
1/4" = 1'-0"



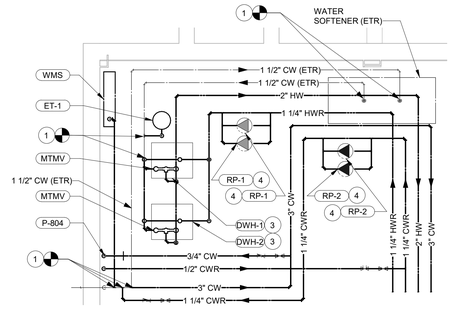
11 TOILET (B135A)
1/4" = 1'-0"



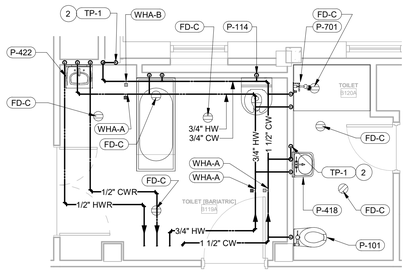
7 LAUNDRY (B127) AND HAC (B128)
1/4" = 1'-0"



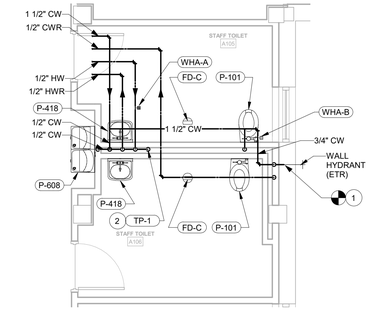
3 BARIATRIC TOILET (A103)
1/4" = 1'-0"



12 MECHANICAL ROOM - DOMESTIC WATER
1/4" = 1'-0"



8 BARIATRIC TOILET (B119A)
1/4" = 1'-0"



4 STAFF TOILETS (A105 & A106)
1/4" = 1'-0"

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JOHN E. SOMMERS LICENSED 22162 7/10/2019 KANSAS PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

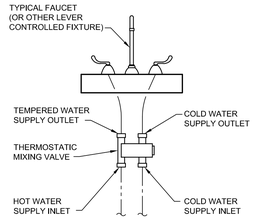
VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING PARTIAL PLANS
APPROVED: PROJECT DIRECTOR
PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6
PROJECT LOCATION: 2200 SW GAGE BLVD, TOPEKA, KS 66622
DATE: 07/10/2019
CHECKED BY: JES
DRAWN BY: RLC

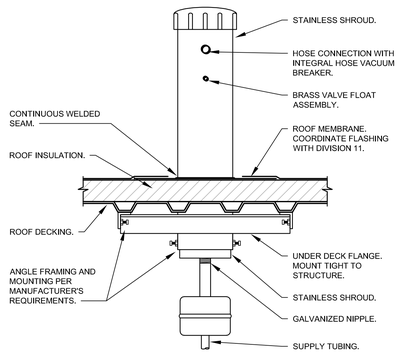
VA PROJECT NUMBER: 589-A5-19-116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-P-402
Dwg. 86 OF 160

VA FORM 08-6231

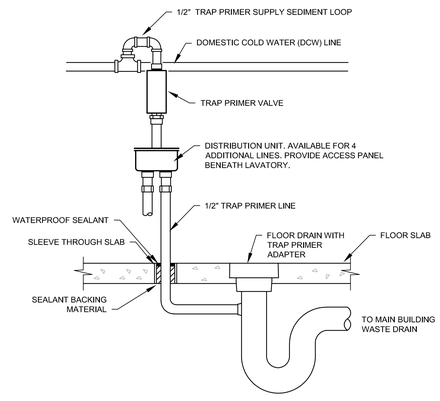


NOTE:
POINT-OF-USE THERMOSTATIC MIXING VALVES MUST CONFORM TO ASSE 1070

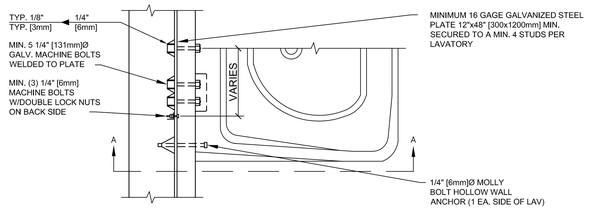
7 POINT-OF-USE 4-PORT THERMOSTATIC MIXING VALVE DETAIL
NOT TO SCALE



8 ROOF HYDRANT DETAIL
NOT TO SCALE

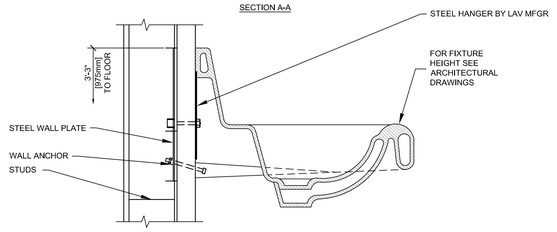


9 TRAP PRIMER
NOT TO SCALE



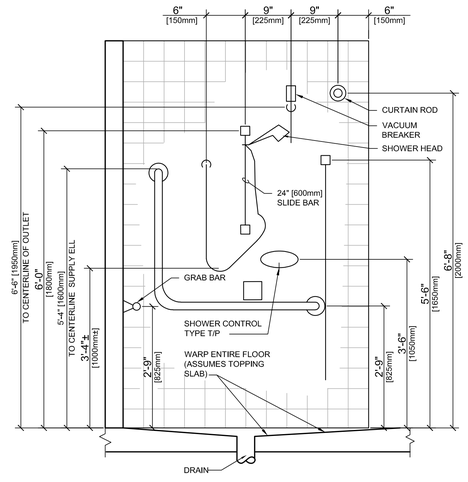
PLAN

SECTION A-A

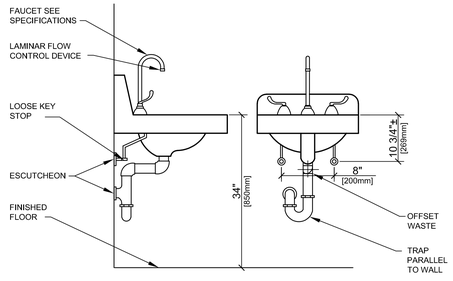


NOTE:
1. AT LAVS WITH FOOT PEDAL CONTROLS PROVIDE AN ADDITIONAL 16 GAGE GALVANIZED STEEL PLATE 12"x16" [300x600mm] SECURED TO A MINIMUM OF 2 STUDS PER FOOT PEDAL.
2. PROVIDE 20 GAGE STUDS WHEN HEIGHT EXCEEDS 12'-0" [3600mm]

4 LAVATORY MOUNTING DETAIL
NOT TO SCALE

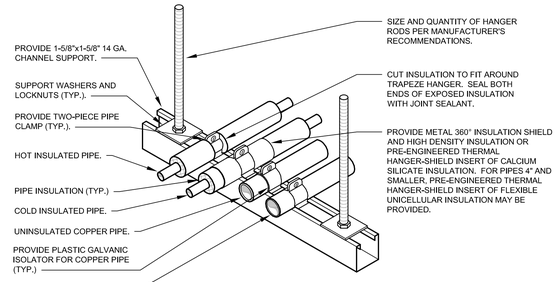


5 P-701 PATIENT SHOWER
NOT TO SCALE



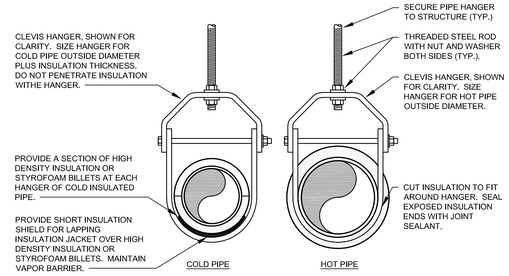
NOTE:
FOR FIXTURE HEIGHTS SEE ARCHITECTURAL DRAWINGS

6 TYPICAL WHEELCHAIR LAVATORY DETAIL
NOT TO SCALE



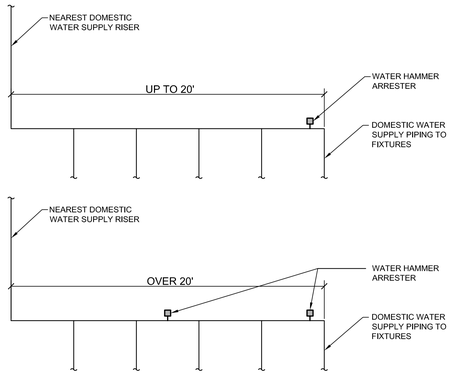
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PIPE AND CONDUIT OF ALL TRADES MAY BE COMBINED ON THE SAME SUPPORT CHANNEL. COORDINATE SUPPORT CHANNEL LENGTH WITH PIPING AND CONDUIT TO BE SUPPORTED. SUPPORT CHANNEL SPACING SHALL BE DETERMINED BY SMALLEST PIPE TO BE SUPPORTED. CHANNEL SUPPORT MAY BE USED AS A WALL BRACKET, ATTACH TO WALL WITH ANCHOR BOLTS PER SPECIFICATIONS. FOR HORIZONTAL INSULATED PIPING, ATTACH CLAMPS AS INDICATED ABOVE. FOR VERTICAL INSULATED PIPING, ATTACH CLAMPS TO THE PIPE AND SEAL INSULATION AT BOTH CLAMP ENDS.

1 TRAPEZE PIPE HANGER
NOT TO SCALE



REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO SRUCTURE AND HANGER SPACING.

2 PIPE HANGER DETAIL
NOT TO SCALE



NOTE:
PROVIDE ACCESS WHERE DEVICES ARE CONCEALED WITHIN PARTITIONS OR ABOVE CEILINGS. SEE SPECIFICATIONS 22 11 00 - 2.10

WATER HAMMER ARRESTER SCHEDULE

MARK	FIXTURE UNIT RATING
A	1 - 11
B	12 - 32
C	33 - 60
D	61 - 113
E	114 - 154
F	155 - 330

3 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE

Revision #	Date

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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
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JOHN E. SOMMERS, LICENSED, 22162, 7/10/2019, KANSAS, PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

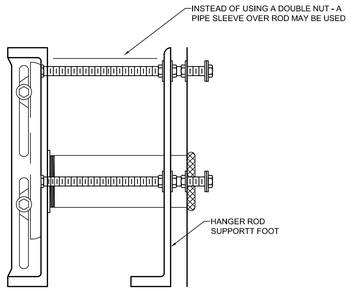
VA | U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING DETAILS I
APPROVED: PROJECT DIRECTOR
PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED

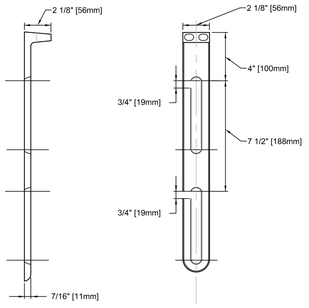
PROJECT TITLE: RENOVATE A & B WING BUILDING 6
PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622
DATE: 07/10/2019
CHECKED BY: JES
DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-P-501
Dwg. 87 OF 160

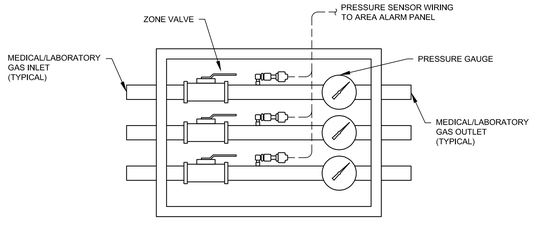
VA FORM 08-6231



8 INSTALLATION OF HANGAR SUPPORT FOOT
NOT TO SCALE



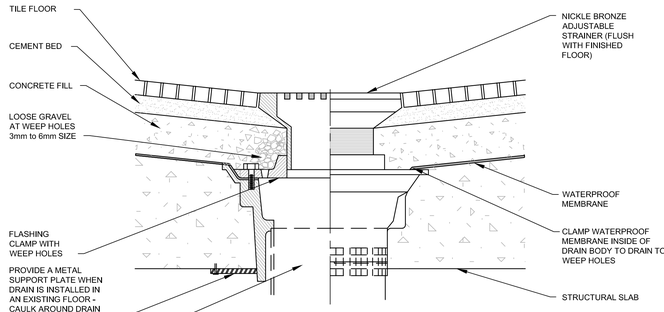
9 HANGER ROD SUPPORT FOOT
NOT TO SCALE



NOTE:

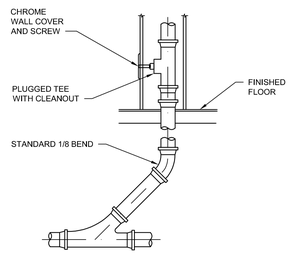
1. REFER TO PLANS FOR EXACT NUMBER OF VALVES AND CONNECTIONS NEEDED.
2. SEE M-701 FOR INFORMATION ON SENSOR WIRING TO AREA ALARM PANEL.

10 ZONE VALVE BOX
NOT TO SCALE

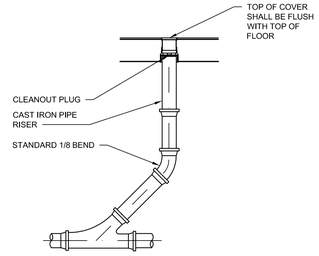


NOTE:
SLOPE MEMBRANE LINER 2% TO DRAIN.

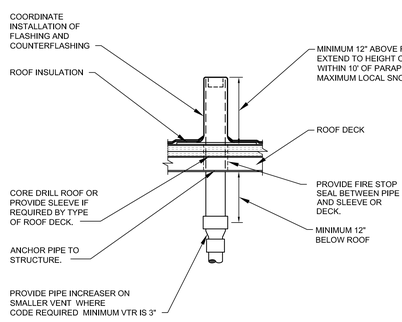
4 TYPE "C" FLOOR DRAIN DETAIL
NOT TO SCALE



5 TYPICAL INTERIOR WALL CLEANOUT
NOT TO SCALE



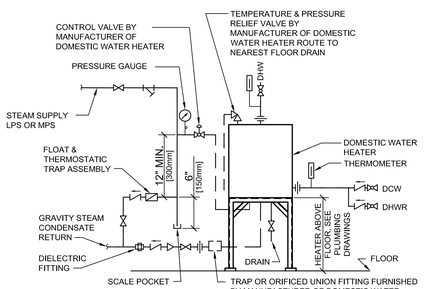
6 TYPICAL INTERIOR CLEANOUT
NOT TO SCALE



NOTE:

1. LOCATE VTR MINIMUM 3'-0" FROM PROPERTY LINE, 10'-0" HORIZONTAL, OR 3'-0" VERTIVAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, 25'-0" FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND 1'-0" FROM ANY VERTICAL SURFACE.
2. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS.
3. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE
4. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.
5. INSULATE LAST 6'-0" OF VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

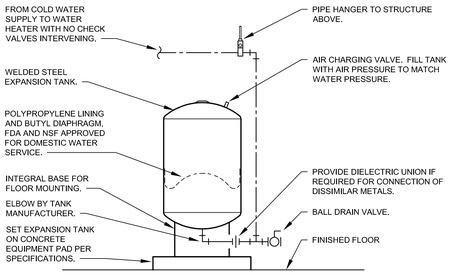
7 VENT THROUGH ROOF DETAIL
NOT TO SCALE



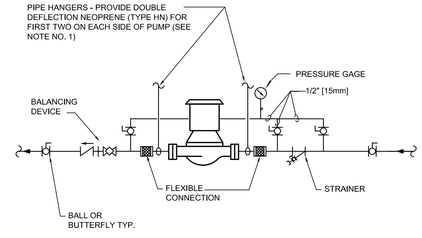
NOTES:

1. VERTICAL COIL TYPE DOMESTIC WATER HEATER IS SHOWN. IF HORIZONTAL TUBE BUNDLE TYPE IS FURNISHED, PIPING SHALL BE SIMILAR.
2. SEE PLUMBING DRAWINGS FOR PIPING CONNECTIONS.
3. PIPING TO UPPER HEATER HEAD SHOULD BE PROVIDED WITH UNION OR FLANGES, LOCATED OUTSIDE THE OUTER DIAMETER OF HEAD TO FACILITATE REMOVAL OF HEAD AND SHELL.
4. PIPING BETWEEN CONTROL VALVE AND HEATER CONNECTION SHOULD BE AS SHORT AS POSSIBLE.
5. PROVIDE INTEGRAL OR EXTERNAL HEAT TRAPS.
6. PROVIDE HOSE CONNECTION TO DRAIN.

1 CONNECTIONS TO DOMESTIC WATER HEATER
NOT TO SCALE



2 LARGE EXPANSION TANK
NOT TO SCALE



NOTES:

1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR.

3 IN - LINE PUMPS - CONNECTIONS
NOT TO SCALE

Revision #	Date

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KS ARCH REG. NO. A-1139, EXP. 12/31/2019
KS ENGR REG. NO. E-2586, EXP. 12/31/2019

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING DETAILS II
APPROVED: PROJECT DIRECTOR
PROJECT PHASE: BID DOCUMENTS
FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6
PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622
DATE: 07/10/2019
CHECKED BY: JES
DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116
BUILDING NUMBER: 6
DRAWING NUMBER: 6-P-502
Dwg. 88 OF 160

VA FORM 08-6231

three inches = one foot

one and one-half inches = one foot

one inch = one foot

three-quarters inch = one foot

one-half inch = one foot

three-eighths inch = one foot

one-quarter inch = one foot

one-eighth inch = one foot

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	POWER			REMARKS
		IN	IN	IN	IN					HP	MCA	V/PH	
P-101	WATER CLOSET FLOOR MTD	3	2	1.25	.5	6	10	N/A	NO	-	-	-	Floor Mount. ASME A112.19.2. Manual Flush Valve, High Efficiency Toilet, elongated bowl, floor outlet. WC: American Standard, Right Width FlowWise: Sloan Regal 111-1.28 XL. Seat Bemis Commercial Model 1655SSCT open elongated heavy duty plastic.
P-114	WATER CLOSET, FLOOR MOUNTED, BARIATRIC	3	2	1.25	-	6	10	N/A	NO	-	-	-	Floor Mounted-Floor Outlet, ASME A112.19.2, Manual Flush Valve, High Efficiency Toilet, 1.28 gpf, elongated bowl. WC: Acorn, Dura-Ware 2125-A Serlew, Sloan Regal 111-1.28 XL. Seat Bemis Commercial Model 1655SSCT open elongated heavy duty plastic.
P-301	BATH TUB	2	1.5	.75	.75	2	2	N/A	NO	-	-	120/1	Bath Tub: Arjo Parker Height-Adjustable Reclining Sit Bath, provide with integral temperature/pressure mixing valve
P-418	LAV-1: LAVATORY	2	1.5	0.5	0.5	2	2	N/A	YES	-	-	-	Lavatory- American Standard Lucerne; straight back, approximately 508 mm by 457 mm (20 inches by 18 inches) and a 102 mm (4 inches) minimum apron, first quality vitreous china with punching for faucet. Set rim 864 mm (34 inches) above finished floor. Faucet - Chicago Faucet #116.595.AB.1, Electronic Sensor Activated Centerset, 1.5 gpm, laminar flow outlet. Trim: McGuire #155A Grid with Tailpiece, McGuire #LF2165CC Stop Valves, risers and escutcheons. #B8872CF 1-1/4" P-trap, waste arm and cleanout plug. Concealed arm carrier with stanchions to floor. ADA Waste & Supply Covers: Truebro - LAV GUARD, #102 E-Z. Provide thermostatic tempering valve. See TMV-1.
P-422	BARIATRIC LAVATORY	2	1.5	0.5	0.5	2	2	N/A	YES	-	-	-	Lavatory- Willoughby Industries BHS-3123; floor mounted bariatric lavatory, rated for 100 lbs, straight back, approximately 787 mm by 584 mm (31 inches by 23 inches) and a 102 mm (4 inches) minimum apron, punching for faucet. Set rim 864 mm (34 inches) above finished floor. Faucet - Chicago Faucet #116.595.AB.1, Electronic Sensor Activated Centerset, 1.5 gpm, laminar flow outlet. Trim: McGuire #155A Grid with Tailpiece, McGuire #LF2165CC Stop Valves, risers and escutcheons. #B8872CF 1-1/4" P-trap, waste arm and cleanout plug. Provide thermostatic tempering valve. See TMV-1.
P-502	SS-1: SINK SERVICE FLOOR MOUNTED	3	2	0.75	0.75	3	4	N/A	NO	-	-	-	Service Sink: Acorn #TNC24-TF2, Square Front, Corner Terrazzo Mop Basin, 36 x 36", Flat White - 6" Front Drop - 12" Deep - Includes Integral Stainless Steel Drain Assembly. Faucet - Chicago Faucet #897-CP with wall brace, Integral vacuum breaker, pail hook and 3/4" male hose threaded outlet. Provide blocking to secure faucet to wall. Trim - stainless steel wall guards, 3/4" x 3 ft hose and wall hook, bunber guard and stainless steel mop hanger. Provide thermostatic tempering valve. See TMV-1.
P-524	SK-1: SINK - DOUBLE COMPARTMENT	2	1.5	0.5	0.5	2	2	N/A	NO	-	-	-	Kitchen Sink: Elkay # LR-3319-3, Double Compartment, Counter Top, Kitchen Sinks) self-rimming, approximately (33" x 22") with two compartments inside dimensions approximately (13 1/2" x 16" x 7 1/2"), 18 Gauge Stainless Steel. Faucet- American Standard - 4433.1-F15, Kitchen Faucet with Pull-Out Spray, single hole mount, single lever handle, ceramic cartridges, swing spout,braided stainless steel supply hose, 1.5 gpm spray. Trim- McGuire # LF2165CC Valve Stops, Risers and Escutcheons, McGuire # 151M CUP Strainers with 1-1/2" tailpiece; # 111C16G17, 1-1/2" Continuous waste, # 8912-C-F adjustable P-Trap, cleanout and escutcheon. Provide TMV-1 thermostatic mixing valve.
P-528	SK-1: SINK - SINGLE COMPARTMENT	2	1.5	.5	.5	2	2	N/A	NO	-	-	-	Single Compartment Sink: Elkay # LRAD191965PD, Single Compartment, Counter Top, self-rimming, approximately 16" x 19" x 7 1/2", 18 Gauge Stainless Steel. Faucet: Chicago #895-317, wristblade handles, gooseneck, centerset, laminar flow outlet. Trim: McGuire # 151M cup strainer with 1-1/2" tailpiece, McGuire #LF2165CC valve stops, risers, and escutcheons, McGuire #8912-C-F adjustable p-trap, cleanout, and escutcheon. Provide with TMV-1. Provide in-line thermal disinfection unit. See ILTDU.
P-608	EWC-1: ELECTRIC WATER COOLER	2	1.5	0.5	-	2	2	N/A	NO	370 W	4 FLA	115/1	Electric Water Cooler: Mechanically cooled, self-contained, dual height station barrier free water cooler with high low (adult/child) access. Provided with bottle filling station. Elkay
P-701	SHOWER SYSTEM	1.5	1.5	.5	.5	2	2	N/A	NO	-	-	-	Shower System: Powers HydroGuard T/P Series e700 hand shower system and temperature/pressure balancing valve, ASSE 1016, adjustable stop screw, elevated vacuum breaker, 60 inch flexible metal hose, ADA hand shower standard, 1.5 gpm flow, slide bar, 250 lb rated.
P-801	NWH: WALL HYDRANT, NON-FREEZE	-	-	0.75	-	-	5	N/A	NO	-	-	-	Wall Hydrant: All wall hydrants are existing to remain.
P-804	HB: HOSE BIBB	-	-	0.75	0.75	-	5	N/A	NO	-	-	-	Hose Bibb: Prier Products #C-158NP.75, Cast or wrought copper alloy, 3/4" female, 3/4" threaded hose connection, four-arm handle shall be cast/formed/drop forged copper alloy, and ASSE 1011 Integral vacuum breaker.
P-808	WATER SUPPLY BOX	-	-	0.5	0.5	-	-	-	-	-	-	-	Washing Machine Outlet Box: IPS Corp. -Guy Gray #SSWB1 Stainless Steel Washing Machine Outlet Box with quarter turn sweat valves.
P-812	IMB: ICE MAKER / WATER SUPPLY BOX	-	-	0.5	-	-	-	-	-	-	-	-	Ice Maker Box: IPS Corp. -Guy Gray # SSIB1 Stainless Steel Ice Maker Box with quarter turn sweat valves.
P-815	NRH: PEDESTAL ROOF HYDRANT, NON-FREEZE	-	-	0.75	-	-	5	N/A	NO	-	-	-	Non-freeze, pedestal type hydrant with cast aluminum weather resistant dome control handle, 304 stainless steel shroud with welded stainless steel flange, 125 lb. 1" bronze globe angle valve with male hose fitting, quick disconnect with built in vacuum breaker, stainless steel reservoir. Insulation R-8, cellular foam insulation, under-deck support flange with hardware. Provide integral vacuum breaker which automatically drains when shut below roof deck to reservoir. Mapa Products, Model MPH-24FP Pedestal Hydrant.
FD-C	FLOOR DRAIN	VARIES	-	-	-	2	-	-	-	-	-	-	Floor Drain: JAY R Smith #2005L (-A). Cast Iron body, Adjustable 6" round or square top, nickel bronze strainer and Speedi-set Outlet. Outlet size and top shape as shown on plan. Provide trap primer connection as specified and shown on plans.
FD-S	FLOOR SINK	SEE PLAN	-	-	-	-	-	-	-	-	-	-	Floor Sink: Jay R. Smith # 3001, stainless steel body, weep holes, internal dome strainer, heavy duty non-tilting loose set grate. Outlet size and top shape as shown on plan. Provide trap primer connection as specified and shown on plans.
FCO	FLOOR CLEANOUT	SEE PLAN	SEE PLAN	-	-	-	-	-	-	-	-	-	Floor Cleanout: Jay R Smith # 4020S-F-C, cast iron body, flashing flange with clamping colloar, ABS plug and adjustable, round, secured, nickel bront top with scoriated top for exposed, flush with floor applications.
WCO	WALL CLEANOUT	SEE PLAN	SEE PLAN	-	-	-	-	-	-	-	-	-	Wall Cleanout: Jay R Smith # 4530S, cast iron clean out tee and plug with gasket seal, counter sunk plug, stainless steel round cover and screw.
FCV-1	FLOW CONTROL VALVE	-	-	SEE PLAN	-	-	-	-	-	-	-	-	Flow Control Valve: Flow Design # ICSS "Autoflow", series 300 stainless steel union body with nickel plated union nut, stainles steel cartridge, NSF 61 Annex G, nameplate and 1/2" valve body size unless shown otherwise on plans. Provide 0.3 GPM flow rated cartridge unless shown otherwise on plans.
MTMV	MASTER THERMOSTATIC MIXING VALVE	-	-	2	2	-	-	-	-	-	-	-	Master Thermostatic Mixing Valve: Powers # LFMM435, ASSE 1017, Lead Free Brass Body, Adjustable Temperature setting - Temperature set at 130 F, 139 gpm @ 20 psi, and 0,5 gpm minimum flow.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	3/8	3/8	-	-	-	-	-	-	-	Thermostatic Mixing Valve: Watts# LFUSG-B-M2, ASSE 1070, Lead Free Brass Body, 4-port, Adjustable Temperature setting - Temperature set at 105 F and 0.25 gpm minimum flow. TMV bypass for maintenance flushout ability.
TP-1	TRAP PRIMER PRESSURE ACTIVATED	-	-	.5	-	-	-	-	-	-	-	-	Trap Primer Pressure Activated: Precision Plumbing Products P1-500 Pressure Drop Actived Trap Primer. Provide with distribution unit. See specification. See plan for quantity of outlets.
WHA	WATER HAMMER ARRESTOR	-	-	VARIES	VARIES	-	-	-	-	-	-	-	Water Hammer Arrester: Precision Plumbing Products, ASSE 1010 OR PDI WH-201 Standards, hard drawn copper body and wrought copper fittings, piston type with lubricated EPDM O-Ring Seals, provide PDI sizes A-F as shown on plans.

WATER MONITORING STATION

MARK	LOCATION	SERVICE	MANUFACTURERS	MODEL	INLET SIZE	DRAIN SIZE	MAX TEMP	MAX PRESSURE	ELECTRICAL		NOTES
					IN	IN	F	PSI	MCA	V/PH	
WMS	MECHANICAL ROOM	DOMESTIC COLD WATER	PHIGENICS	NOTES 1 & 2	0.25	0.50	176	145	2	110/1	1-6

NOTES:
1 CONTRACTOR TO PROVIDE WME-1175 PWA ADVANCED MONITORING SYSTEM 2.0.
2 CONTRACTOR TO PROVIDE WME-9999 HARDNESS MONITOR (QUANTITATIVE) ADD ON.
3 CONTRACTOR TO PROVIDE WEB-BASED DATA MANAGEMENT SYSTEM.
4 PROVIDE PANEL MOUNTED SYSTEM TO MEASURE FREE AND TOTAL CHLORINE RESIDUALS, PH, TEMPERATURE, PRESSURE, AND DISSOLVED SOLIDS (CONDUCTIVITY).
5 PROVIDE PRE-WIRED AND PRE-PLUMBED SYSTEM ON A SINGLE PANEL.
6 PROVIDE SYSTEM COMPLIANT WITH EPA REGULATION 40CFR 140.74, STANDARD METHOD 4500-CLG, AND EPA METHOD 334.0

RECIRCULATION PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	BODY MATERIAL	FLOW (GPM)	HEAD (FT)	CONNECTION TYPE	CONNECTION SIZE	ELECTRICAL DATA				NOTES
								POWER	VOLTAGE	PHASE	FLA	
RP-1	BELL & GOSSETT	# BE-60 ECM	LEAD-FREE BRONZE	25	22	FLANGE	1-1/4"	1/2 HP	120	1	6.5	1-6
RP-2	BELL & GOSSETT	# BE-60 ECM	LEAD-FREE BRONZE	25	22	FLANGE	1-1/4"	1/2 HP	120	1	6.5	1-6

NOTES:
1 SUPPORT PUMP FROM STRUCTURE WITH VERTICAL SUPPORTS INDEPENDENT FROM PIPING.
2 DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.
3 STARTER FURNISHED BY DIVISION 26 CONTRACTOR.
4 PUMP MOTOR SHALL BE NON-OVERLOADING THROUGHOUT THE FULL RANGE OF THE PUMP CURVE.
5 RECIRCULATION PUMP IS ON AND RUN CONTINUOUSLY.
6 PROVIDE TWO (2) PUMPS TO OPERATE IN LEAD-STANDBY CONFIGURATION.

DOMESTIC WATER HEATER (STEAM) SCHEDULE

MARK	LOCATION	SERVICE	MANUFACTURERS	MODEL	STORAGE CAPACITY	WATER					STEAM				RELIEF VALVE SETTING				NOTES
						EWT	LWT	CAP	FLOW	WPD	PRESS.	CAP	CAP	MAX CV PRESS DROP		DISC.	STARTER		
					GAL	°F	°F	MBH	GPM	FT	PSIG	MBH	LB/HR	PSIG	PSIG			V/PH	
DWH-1	MECHANICAL ROOM	DOMESTIC HOT WATER	RECO	-	27.0	40.0	140.0	1550	31.0	-	25.0	1500	1587	10.00	150.0	NOTE 2	NOTE 3	120/1	1-4
DWH-2	MECHANICAL ROOM	DOMESTIC HOT WATER	RECO	-	27.0	40.0	140.0	1550	31.0	-	25.0	1500	1587	10.00	150.0	NOTE 2	NOTE 3	120/1	1-4

NOTES:
1 PROVIDE DOMESTIC STEAM-WATER HEATER IN VERTICAL CONFIGURATION.
2 PROVIDE MASTER THERMOSTATIC MIXING VALVE (MTMV) WITH WATER HEATER. SEE PLUMBING FIXTURE SCHEDULE FOR RELATED INFORMATION.
3 DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.
4 STARTER FURNISHED BY DIVISION 26 CONTRACTOR.

DOMESTIC WATER THERMAL EXPANSION TANK SCHEDULE

MARK	LOCATION	MANUFACTURER	TYPE	MODEL	SYSTEM TEMP.		SYSTEM PRESSURE		RELIEF VALVE PRESSURE	MIN TANK VOLUME	MIN ACCEPT VOLUME	PIPE SIZE	NOTES
					MIN	MAX	MIN	MAX					
					°F	°F	PSIG	PSIG	PSIG	GAL	GAL	IN	
ET-1	MECHANICAL ROOM	AMTROL	POTABLE THERMAL EXPANSION TANK	ST-25V	40	200	60	150	150	5.7	3.1	.75	1

NOTES:
1 PROVIDE CONCRETE HOUSEKEEPING PAD PER SPECIFICATIONS FOR FLOOR-MOUNTED UNITS.

MEDICAL GAS DEVICE SCHEDULE

MARK	DEVICE	MANUFACTURER	MODEL	MEDICAL AIR	MEDICAL VACUUM	OXYGEN	LABORATORY AIR	LABORATORY VACUUM	NOTES
AAP	AREA ALARM PANEL	BEACON MEDAES	M3-A10-O	N/A	N/A	X	N/A	N/A	1-6
WO	WALL OUTLET	BEACON MEDAES	NOTE 4	N/A	N/A	X	N/A	N/A	1-6
ZVB	ZONE VALVE BOX	BEACON MEDAES	ZVB1-B-ENG	N/A	N/A	X	N/A	N/A	1-6

NOTES:
1 PROVIDE COMPLETE INSTALLATION OF SYSTEMS PER NFPA 99 REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS.
2 INSTALL ITEMS AT LOCATIONS AND ELEVATIONS INDICATED ON ARCHITECTURAL DRAWINGS. COORDINATE LOCATIONS WITH OTHER TRADES.
3 DEVICES SHALL BE COMPATIBLE WITH EXISTING SITE FACILITIES. VERIFY AT SITE.
4 WALL OUTLETS SHALL BE QUICK-CONNECT PIN INDEX TYPE. MATCH TYPE WITH EXISTING SITE FACILITIES. VERIFY AT SITE.
5 INSTALL DEVICES WITH CENTERLINE OF BOXES AT 60" AFF, UNLESS OTHERWISE NOTED.
6 MAKE ZONE VALVE BOXES SAME SIZE AS PIPE THEY SERVE. REFER TO FLOOR PLANS FOR SIZES.

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Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: PLUMBING SCHEDULES I

APPROVED: PROJECT DIRECTOR

PROJECT PHASE: BID DOCUMENTS

FULLY SPRINKLERED

PROJECT TITLE: RENOVATE A & B WING BUILDING 6

PROJECT LOCATION: 2200 SW GAGE BLVD. TOPEKA, KS 66622

DATE: 07/10/2019 | CHECKED BY: JES | DRAWN BY: RLC

VA PROJECT NUMBER: 589-A5-19-116

BUILDING NUMBER: 6

DRAWING NUMBER: 6-P-601

Dwg. 89 OF 160

VA FORM 08-6231