

Upgrade Backflow Preventer, Infrastructure Boonville Correctional Center Boonville, Missouri

SIEBENECK ENGINEERING LLC
8115 DEER HAVEN COURT
JEFFERSON CITY, MO 65101
(573) 353-7115
siebengineer@gmail.com
Missouri State Certificate of Authority
#E-2016021605

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF CORRECTIONS

DESIGNER: SIEBENECK ENGINEERING

PROJECT NUMBER: C1906-01

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

SITE NUMBER: 7002
ASSET NUMBER: 9327002063

SHEET NUMBER:

G-001

1 OF 8 SHEETS
DECEMBER 10, 2019

GENERAL DEMOLITION NOTES

- 1 ALL DRAWINGS ARE FROM FIELD TAKE-OFF AND ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRIOR TO BIDDING AND/OR CONSTRUCTION.
- 2 COORDINATE WITH EXISTING SYSTEMS WHICH SHALL REMAIN IN OPERATION DURING DEMOLITION AND CONSTRUCTION PHASES.

GENERAL CONSTRUCTION NOTES

- 1 ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE STATE BUILDING CODES AND REGULATIONS, CURRENT NATIONAL ELECTRIC CODE, AND CURRENT INTERNATIONAL PLUMBING CODE AS WELL AS ALL MANUFACTURER INSTALLATION GUIDELINES.
- 2 GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE UNLESS OTHERWISE STATED IN CONSTRUCTION SPECIFICATIONS.

BASIS OF DESIGN

- 2015 INTERNATIONAL PLUMBING CODE
- 2014 NATIONAL ELECTRICAL CODE

SHEET INDEX

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7	P-601	PLUMBING SCHEDULES AND DETAILS
8	E-101	ELECTRICAL POWER PLAN

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MICHAEL L. PARSON,
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UPGRADE BACKFLOW
PREVENTER,
INFRASTRUCTURE

BOONVILLE CORRECTIONAL
CENTER
1216 EAST MORGAN STREET
BOONVILLE, MO 65233

PROJECT # C1906-01
SITE # 7002
ASSET # 9327002063

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/10/2019

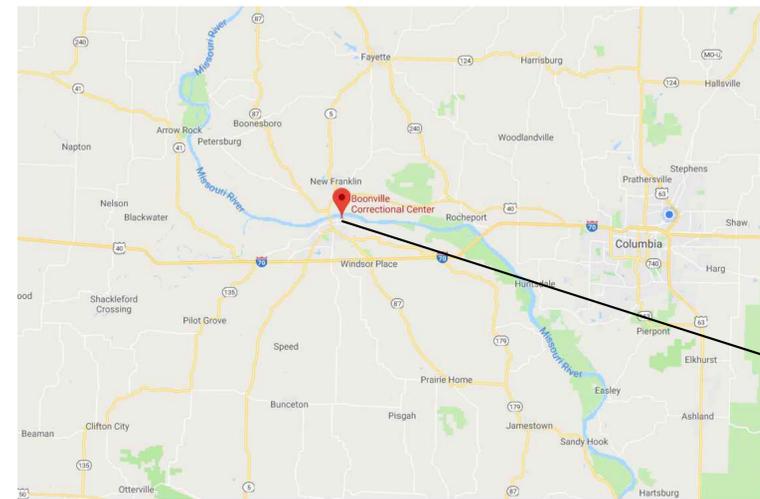
CAD DWG FILE: BCBP-G.dwg
DRAWN BY: TLS/MDS
CHECKED BY: TLS
DESIGNED BY: TLS

SHEET TITLE:
**GENERAL NOTES
AND DRAWING
INDEX**

SHEET NUMBER:

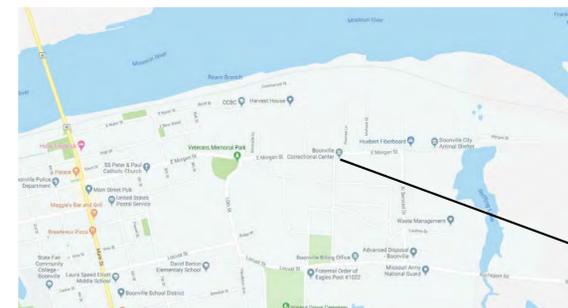
G-002

2 OF 8 SHEETS
12/10/2019



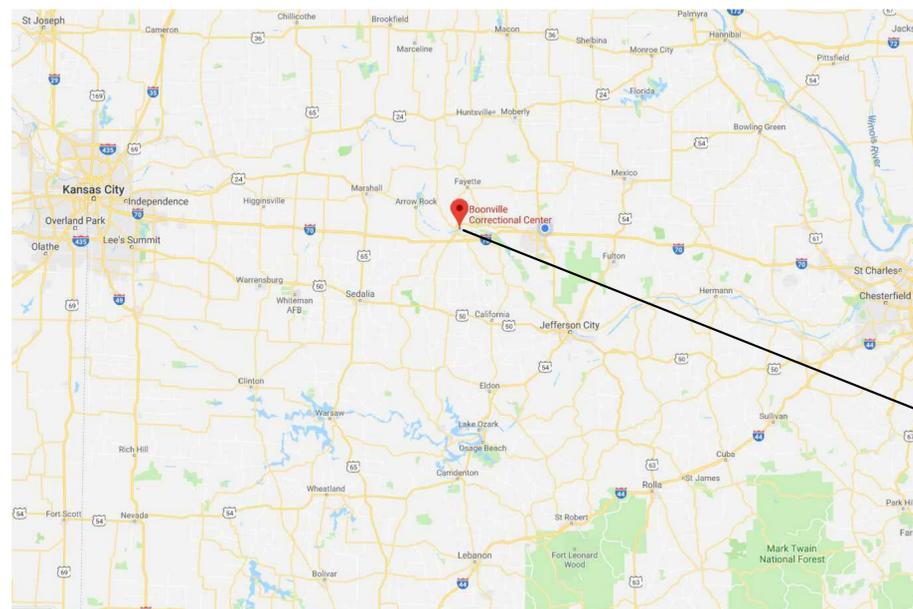
**BOONVILLE
CORRECTIONAL
FACILITY**

2 VICINITY MAP
SCALE: NONE



**BOONVILLE
CORRECTIONAL
FACILITY**

3 BUILDING LOCATION MAP
NO SCALE

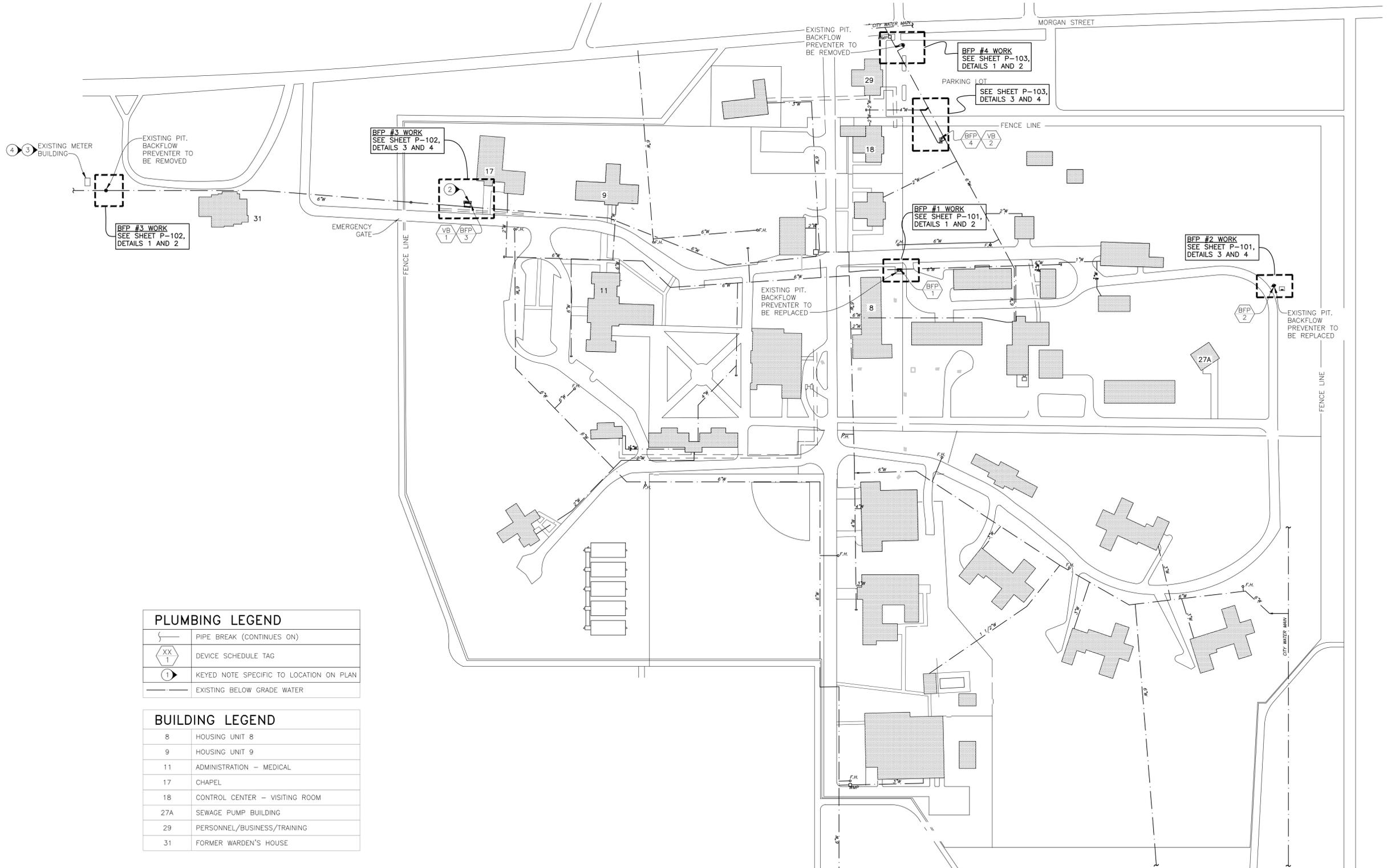


**BOONVILLE,
MISSOURI**

1 STATE OF MISSOURI PROJECT SITE LOCATION MAP
SCALE: NONE

GENERAL NOTES

- 1 SEE SHEET G-002 FOR GENERAL NOTES.
- 2 COORDINATE WITH THE CITY OF BOONVILLE TO PROVIDE WATER METER WITH REMOTE READ CAPABILITY. CONTACT SHALL BE JAMES EARL QUINT (660) 882-5257 OFFICE, OR (660) 621-0301 CELL. SECOND CONTACT SHALL BE TINA GLOVER (660) 882-5257 OFFICE, (660) 621-0298 CELL, OR CHRISTINA.GLOVER@BOONVILLE-MO.ORG. CONTACT CITY OF BOONVILLE A MINIMUM OF (1) ONE WEEK PRIOR TO ANY REQUIRED CITY WORK.
- 3 EXISTING WATER METER IS IN OUTBUILDING. CONTRACTOR SHALL COORDINATE ACCESS TO BUILDING, AND REMOVE EXISTING 6" WATER METER. RETURN METER TO CITY OF BOONVILLE. PROVIDE NEW SPOOL TO IN-FILL PIPE GAP AT REMOVED METER LOCATION. SEE NOTE 4 BELOW FOR SPOOL PAINTING INFORMATION.
- 4 APPLY 1 COAT PRIMER, AND 2 COATS WHITE ALKYD PAINT (WITH HARDENER) TO SPOOL.
- 5 COORDINATE WITH FACILITY PERSONNEL REGARDING WATER SHUT-OFF.



PLUMBING LEGEND	
	PIPE BREAK (CONTINUES ON)
	DEVICE SCHEDULE TAG
	KEYED NOTE SPECIFIC TO LOCATION ON PLAN
	EXISTING BELOW GRADE WATER

BUILDING LEGEND	
8	HOUSING UNIT 8
9	HOUSING UNIT 9
11	ADMINISTRATION - MEDICAL
17	CHAPEL
18	CONTROL CENTER - VISITING ROOM
27A	SEWAGE PUMP BUILDING
29	PERSONNEL/BUSINESS/TRAINING
31	FORMER WARDEN'S HOUSE

1 PLUMBING SITE PLAN
SCALE: 1"=100'-0"

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CORRECTIONS

UPGRADE BACKFLOW
PREVENTER,
INFRASTRUCTURE
BOONVILLE CORRECTIONAL
CENTER
1216 EAST MORGAN STREET
BOONVILLE, MO 65233

PROJECT # C1906-01
SITE # 7002
ASSET # 9327002063

REVISION: _____
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CAD DWG FILE: BCBP-c.dwg
DRAWN BY: TLS/GES
CHECKED BY: TLS
DESIGNED BY: TLS/GES

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

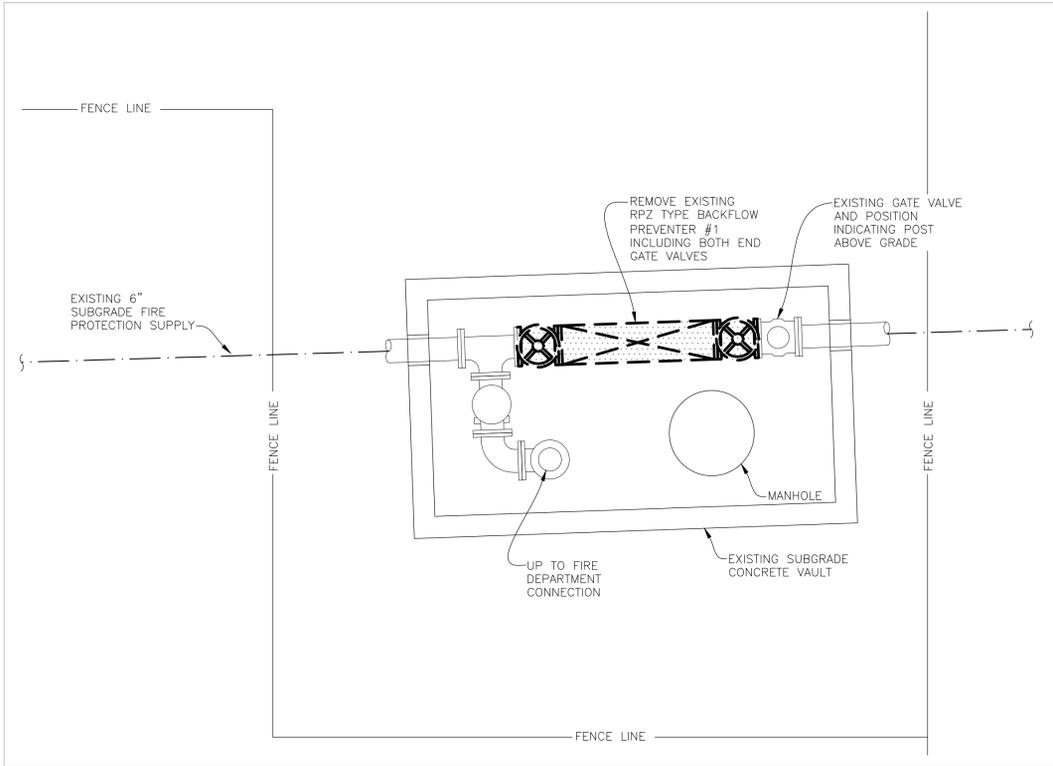
P-100

3 OF 8 SHEETS
12/10/2019

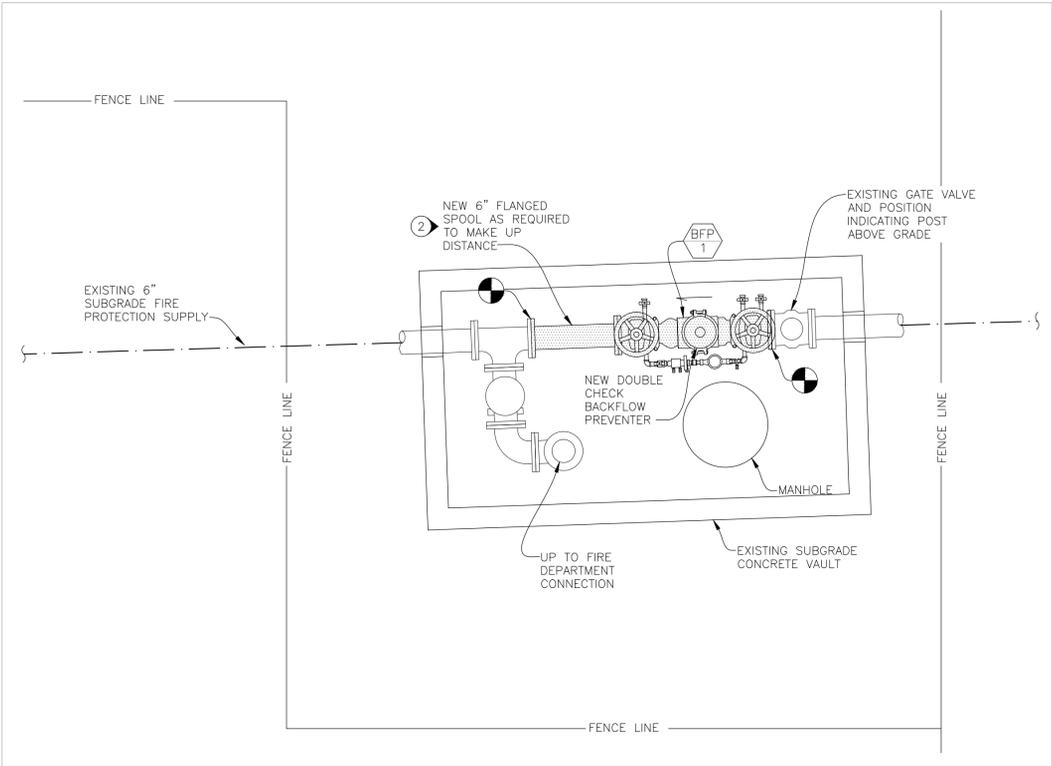
PLUMBING LEGEND	
	CONNECTION TO EXISTING EQUIPMENT
	PIPE BREAK (CONTINUES ON)
	DEVICE SCHEDULE TAG
	KEYED NOTE SPECIFIC TO LOCATION ON PLAN
	POTABLE COLD WATER LINE (CW)
	REMOVE EQUIPMENT OR FIXTURES

GENERAL NOTES

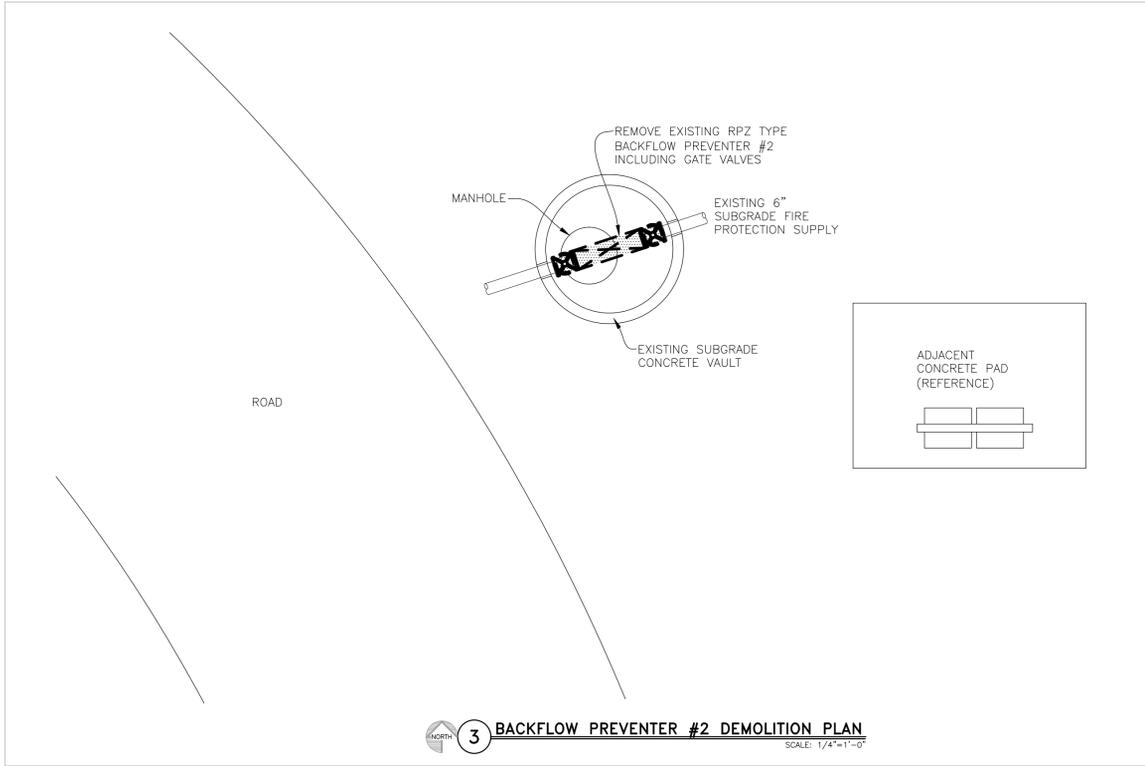
- 1 SEE SHEET G-002 FOR GENERAL NOTES.
- 2 APPLY 1 COAT PRIMER, AND 2 COATS WHITE ALKYD PAINT (WITH HARDENER) TO SPOOL.



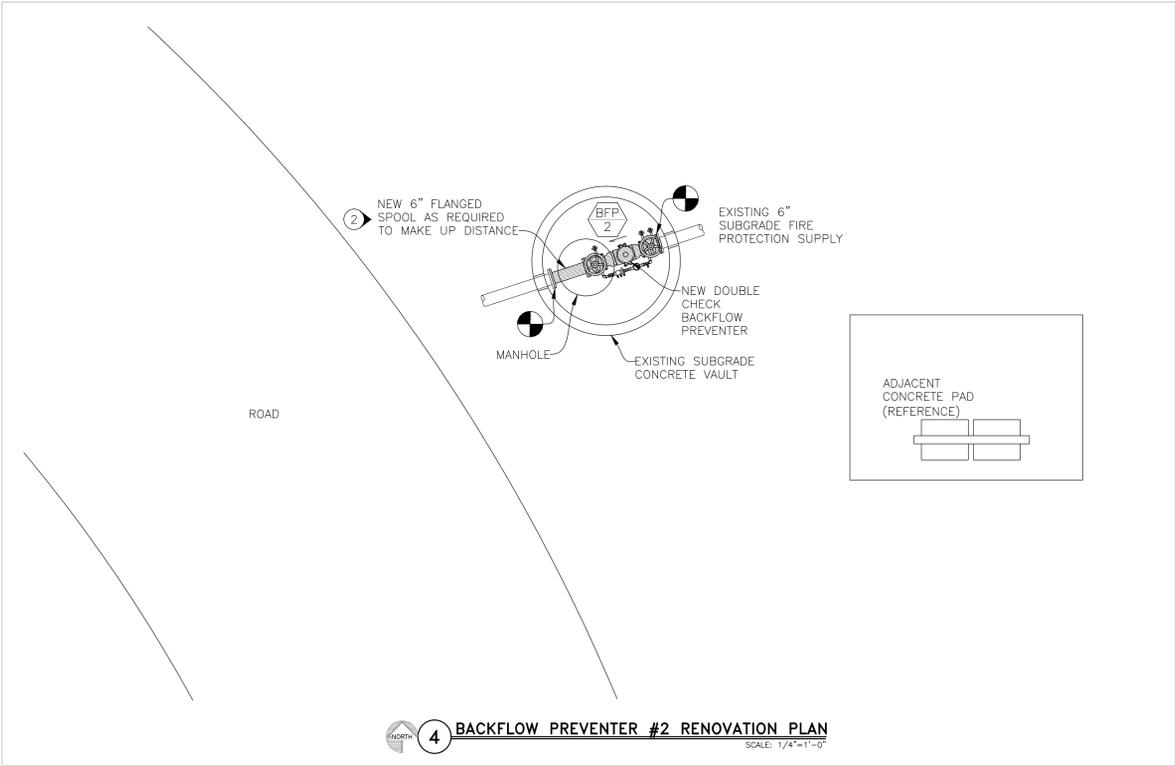
1 BACKFLOW PREVENTER #1 DEMOLITION PLAN
SCALE: 1/2" = 1'-0"



2 BACKFLOW PREVENTER #1 RENOVATION PLAN
SCALE: 1/2" = 1'-0"



3 BACKFLOW PREVENTER #2 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



4 BACKFLOW PREVENTER #2 RENOVATION PLAN
SCALE: 1/4" = 1'-0"

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CAD DWG FILE: BCBP-P.dwg
DRAWN BY: GES
CHECKED BY: TJS
DESIGNED BY: GES

SHEET TITLE:
**BFP 1 AND 2
ENLARGED
PLUMBING
PLANS**

SHEET NUMBER:
P-101
4 OF 8 SHEETS
12/10/2019



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CAD DWG FILE: BCBP-P.dwg
DRAWN BY: GES
CHECKED BY: TJS
DESIGNED BY: GES

SHEET TITLE:
**BFP-3
ENLARGED
PLUMBING
PLANS**

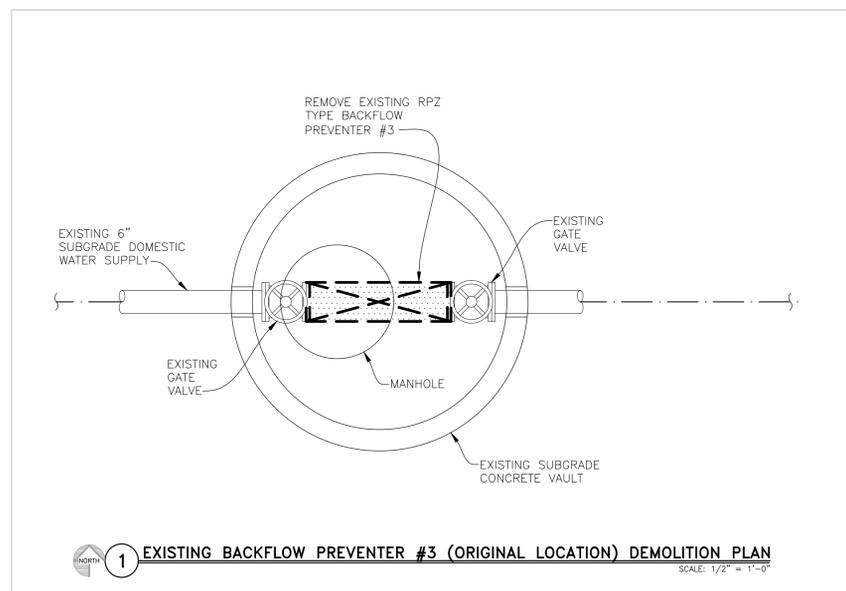
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P-102

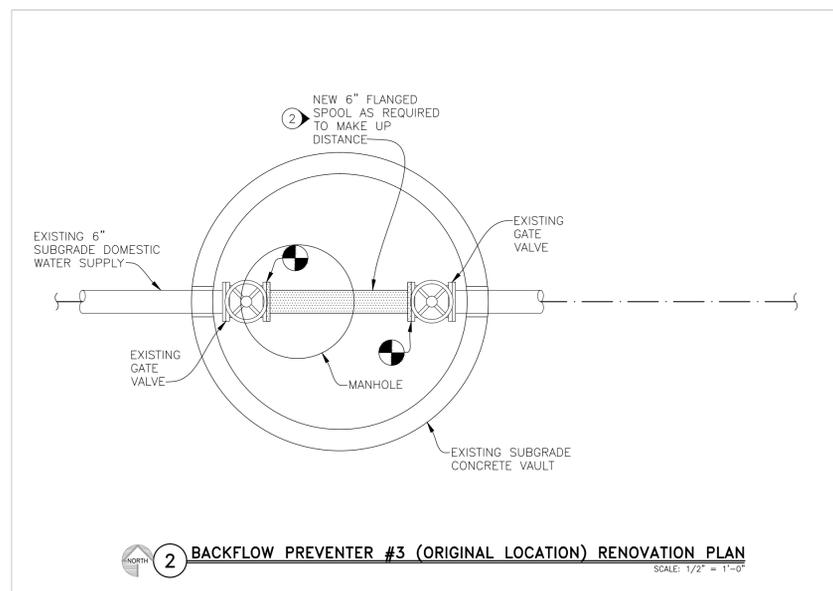
5 OF 8 SHEETS
12/10/2019

GENERAL NOTES

- 1 SEE SHEET G-002 FOR GENERAL NOTES.
- 2 APPLY 1 COAT PRIMER, AND 2 COATS WHITE ALKYD PAINT (WITH HARDENER) TO SPOOL.
- 3 SEE SHEET P-100, NOTES 3 AND 4 FOR EXISTING WATER METER REMOVAL, AND SPOOL INSTALLATION INFORMATION.



1 EXISTING BACKFLOW PREVENTER #3 (ORIGINAL LOCATION) DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

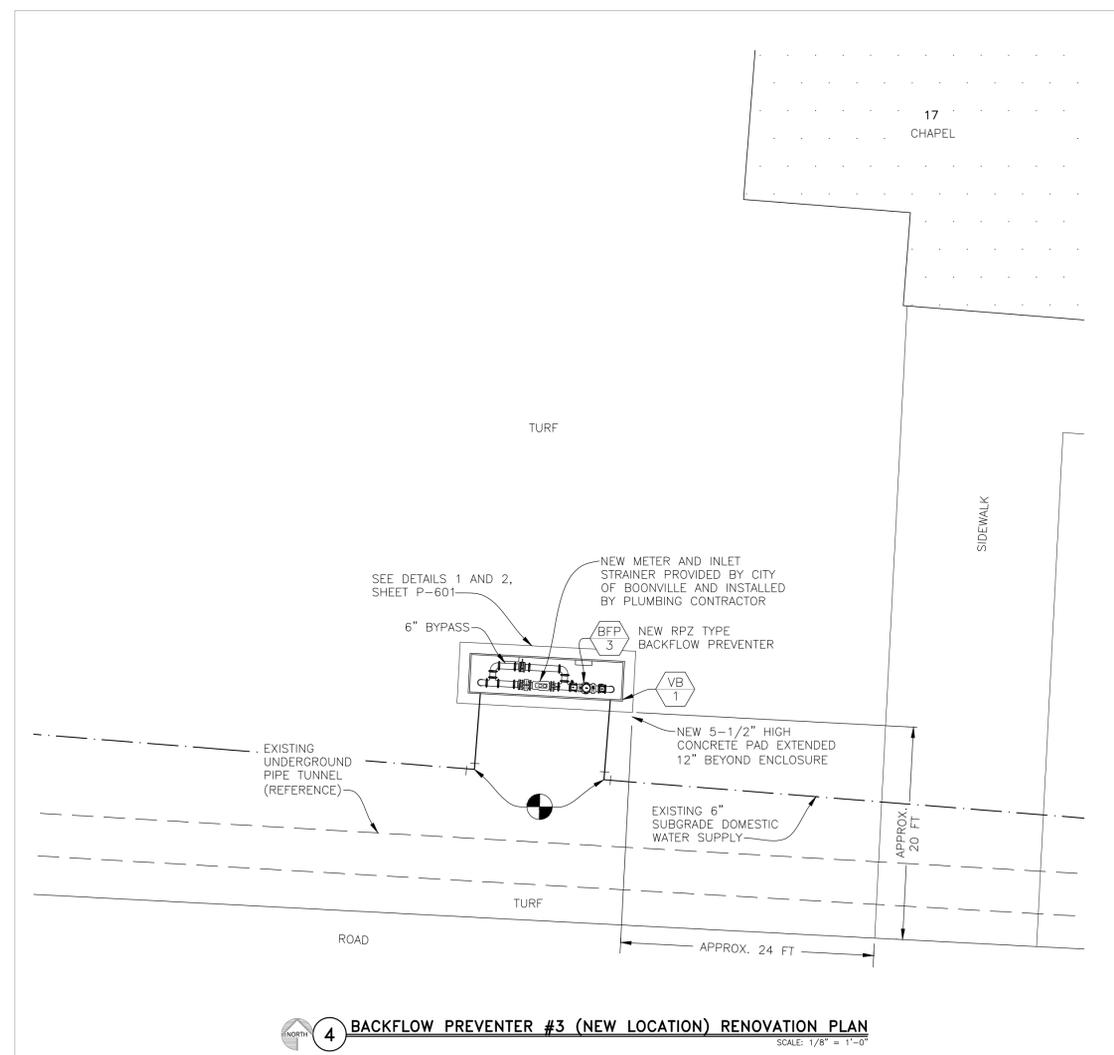


2 BACKFLOW PREVENTER #3 (ORIGINAL LOCATION) RENOVATION PLAN
SCALE: 1/2" = 1'-0"

PLUMBING LEGEND	
	CONNECTION TO EXISTING EQUIPMENT
	PIPE BREAK (CONTINUES ON)
	DEVICE SCHEDULE TAG
	KEYED NOTE SPECIFIC TO LOCATION ON PLAN
	POTABLE COLD WATER LINE (CW)
	REMOVE EQUIPMENT OR FIXTURES
	REMOVE PIPING



3 BACKFLOW PREVENTER #3 (NEW LOCATION) DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



4 BACKFLOW PREVENTER #3 (NEW LOCATION) RENOVATION PLAN
SCALE: 1/8" = 1'-0"



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CAD DWG FILE: BCBP-P.dwg
DRAWN BY: GES
CHECKED BY: TLS
DESIGNED BY: GES

SHEET TITLE:
**BFP-4
ENLARGED
PLUMBING
PLANS**

SHEET NUMBER:

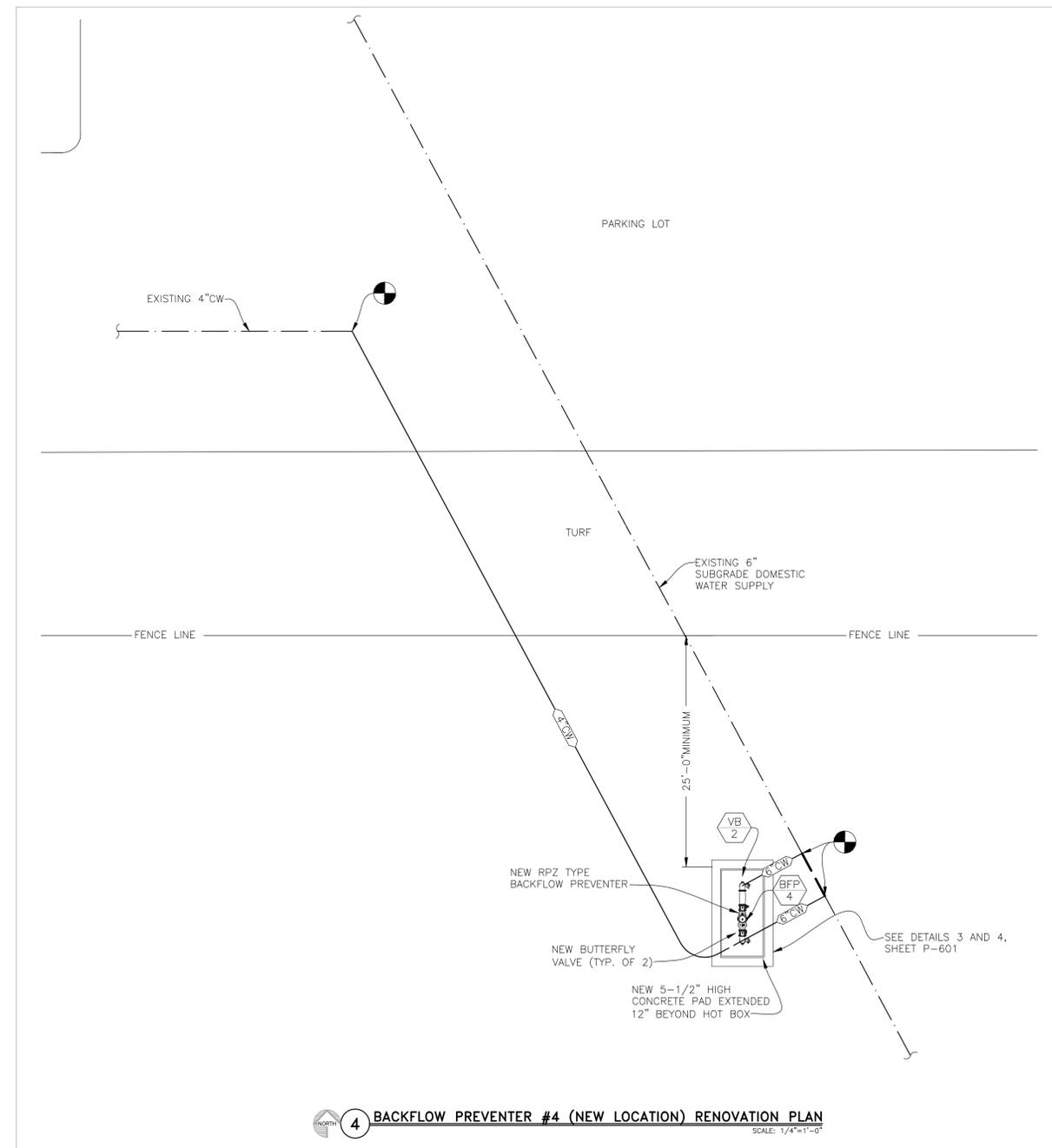
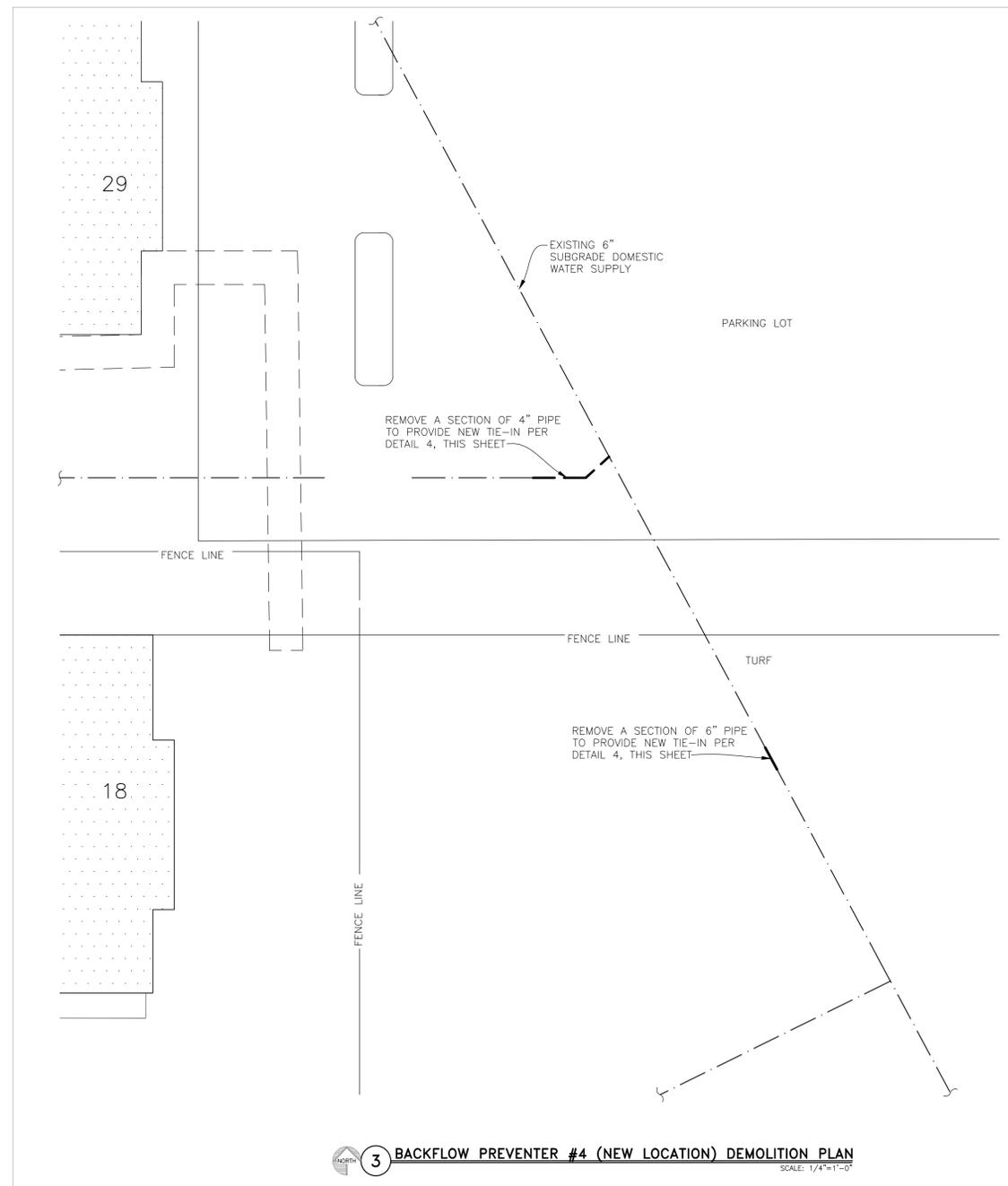
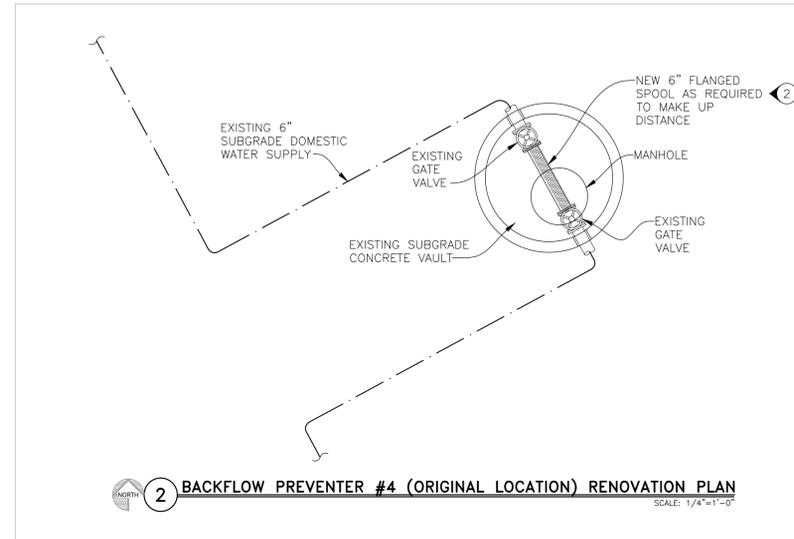
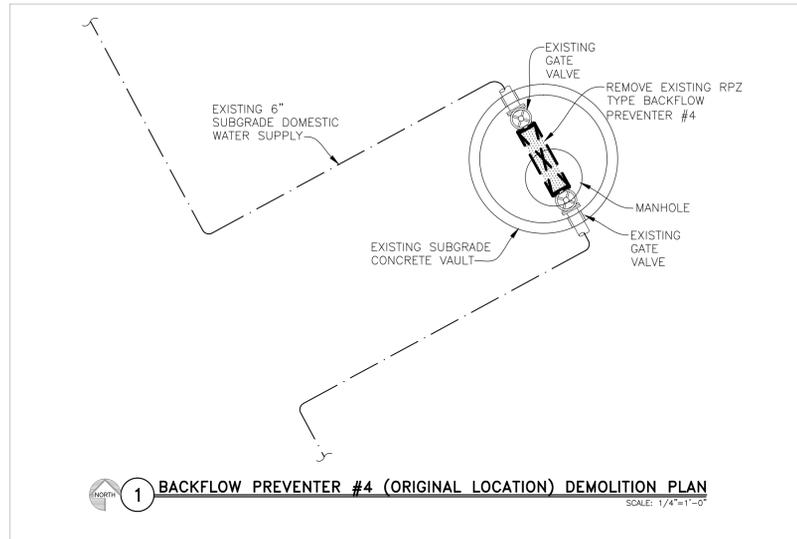
P-103

6 OF 8 SHEETS
12/10/2019

GENERAL NOTES

- 1 SEE SHEET G-002 FOR GENERAL NOTES.
- 2 APPLY 1 COAT PRIMER, AND 2 COATS WHITE ALKYD PAINT (WITH HARDENER) TO SPOOL.

PLUMBING LEGEND	
	CONNECTION TO EXISTING EQUIPMENT
	PIPE BREAK (CONTINUES ON)
	DEVICE SCHEDULE TAG
	PIPE SIZE (IN INCHES)(AND TYPE)
	KEYED NOTE SPECIFIC TO LOCATION ON PLAN
	POTABLE COLD WATER LINE (CW)
	REMOVE EQUIPMENT OR FIXTURES
	REMOVE PIPING





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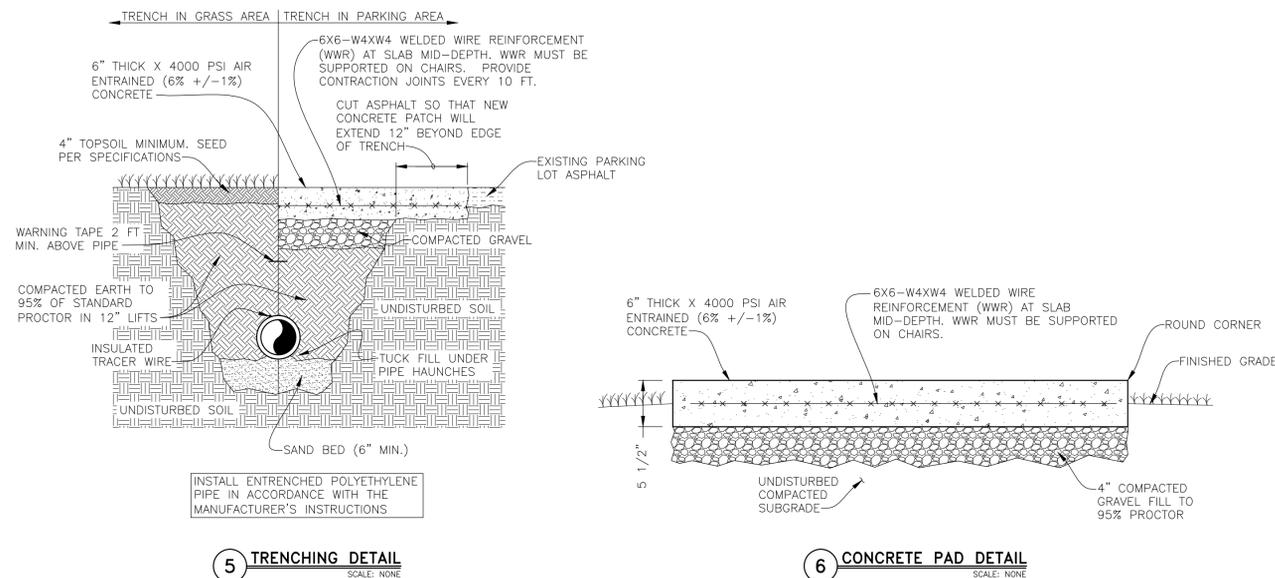
CAD DWG FILE: BCBP-P.dwg
DRAWN BY: GES
CHECKED BY: TJS
DESIGNED BY: GES

SHEET TITLE:
**PLUMBING
SCHEDULES
AND
DETAILS**

SHEET NUMBER:

P-601

7 OF 8 SHEETS
12/10/2019



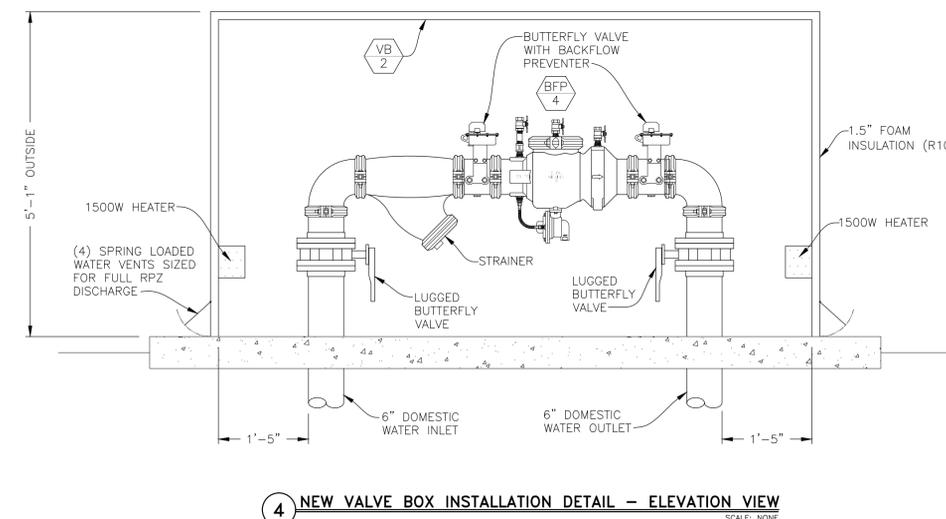
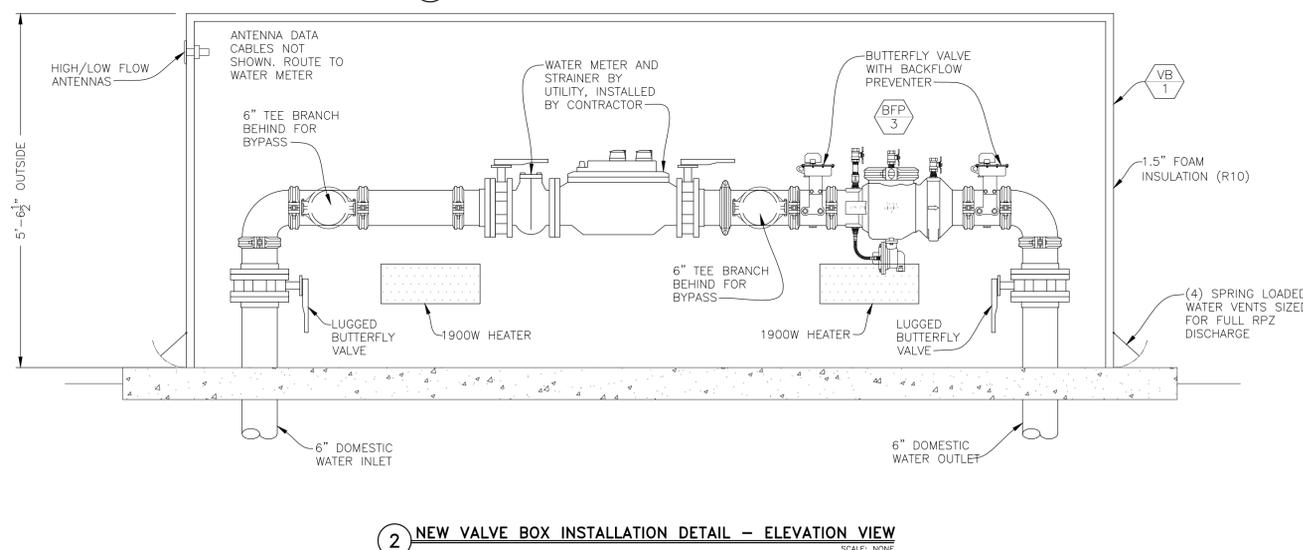
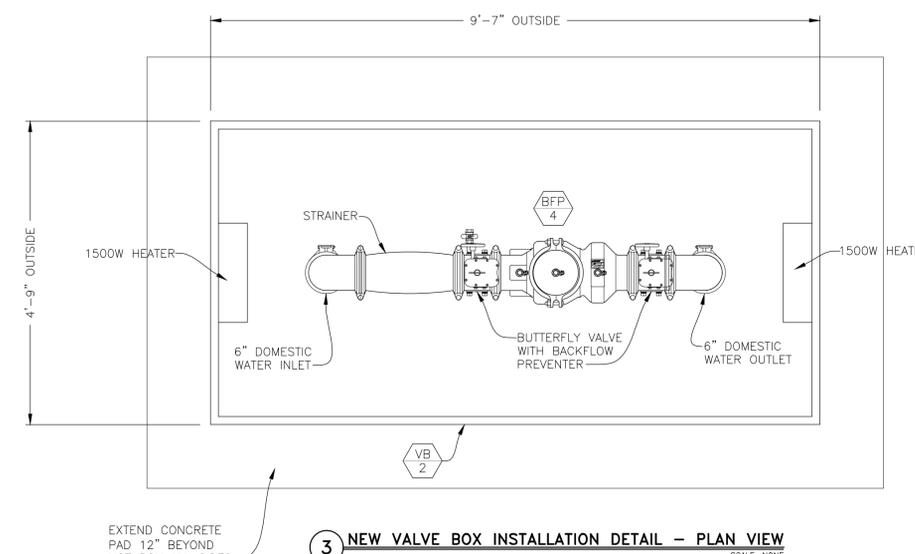
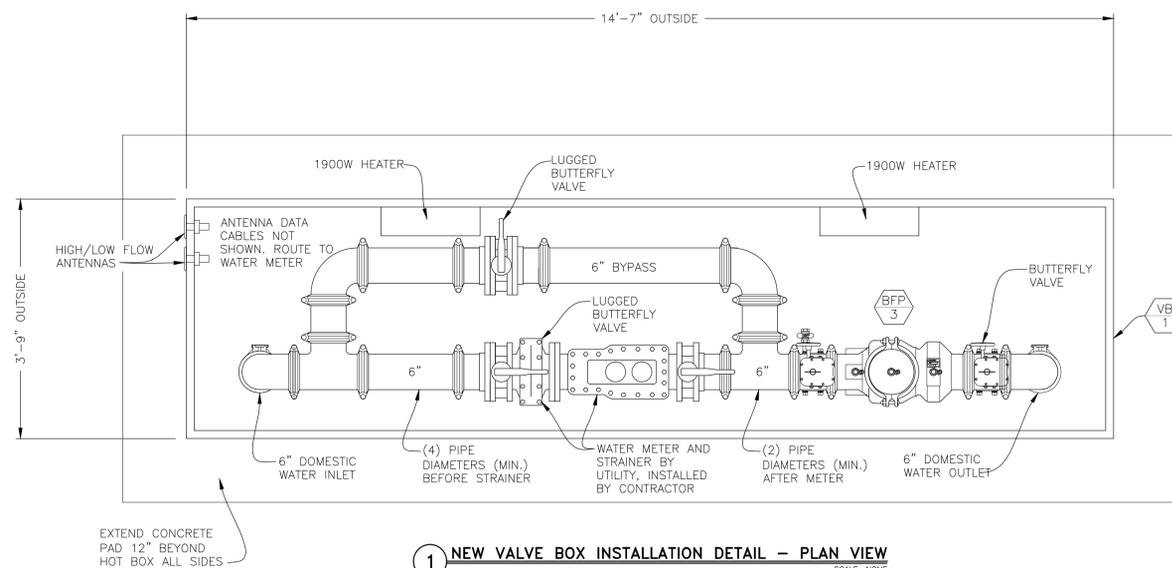
VALVE SCHEDULE				
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK
BFP 1	ZURN 350ASTDA	DOUBLE CHX DETECTOR	6" SIZE FIRE PROTECTION	PROVIDE WITH INDICATING AND LOCKABLE BUTTERFLY VALVES
BFP 2	ZURN 350ASTDA	DOUBLE CHX DETECTOR	6" SIZE FIRE PROTECTION	PROVIDE WITH INDICATING AND LOCKABLE BUTTERFLY VALVES
BFP 3	ZURN 375A	RPZ TYPE BACKFLOW PREVENTER	6" SIZE DOMESTIC WATER	PROVIDE WITH GROOVED END CONNECTION BUTTERFLY VALVES
BFP 4	ZURN 375A	RPZ TYPE BACKFLOW PREVENTER	6" SIZE DOMESTIC WATER	PROVIDE WITH GROOVED END CONNECTION BUTTERFLY VALVES

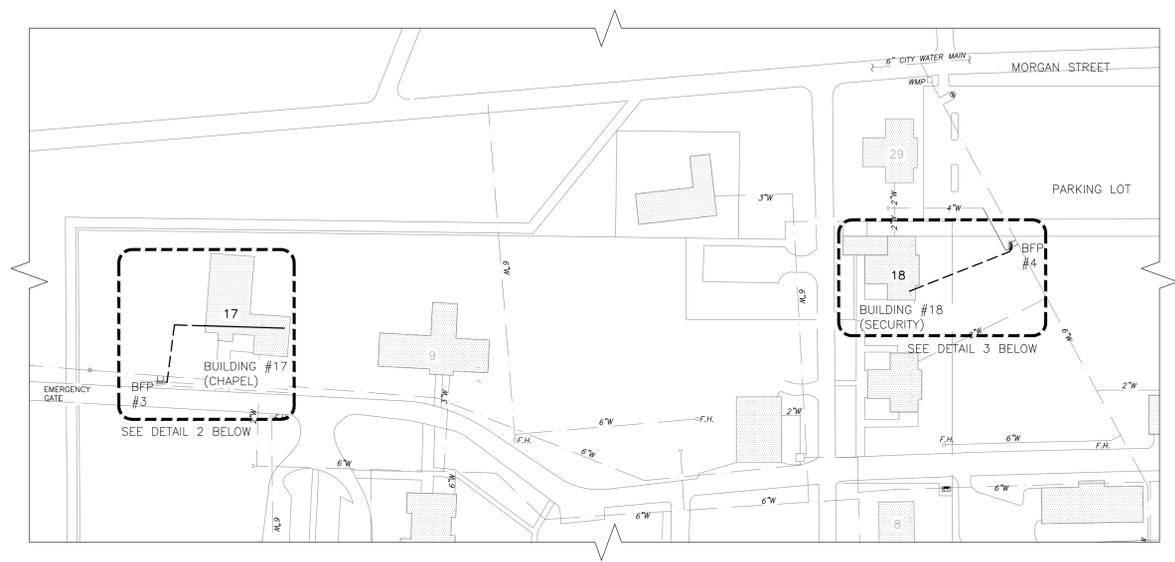
BACKFLOW PREVENTER EQUIVALENT MANUFACTURERS:
 • WATTS REGULATOR; WWW.WATTS.COM
 • APOLLO VALVES; WWW.APOLLOVALVES.COM/BACKFLOW

WEATHERPROOF HEATED VALVE ENCLOSURE SCHEDULE				
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK
VB 1	HUBBELL HA042172065 (BFP #3)	HEATED ENCLOSURE	(2) 120 VAC, 1Ø (2) 1900 W HEATERS	172" LONG x 42" WIDE x 68" TALL (INSIDE DIMENSIONS) HEATED ENCLOSURE, R10 INSULATION, ACCESS DOORS, ASSE 1060 CERTIFIED, CLASS 1
VB 2	HUBBELL HA054112059 (BFP #4)	HEATED ENCLOSURE	(2) 120 VAC, 1Ø (2) 1500 W HEATERS	112" LONG x 54" WIDE x 59.5" TALL (INSIDE DIMENSIONS) HEATED ENCLOSURE, R10 INSULATION, ACCESS DOORS, ASSE 1060 CERTIFIED, CLASS 1

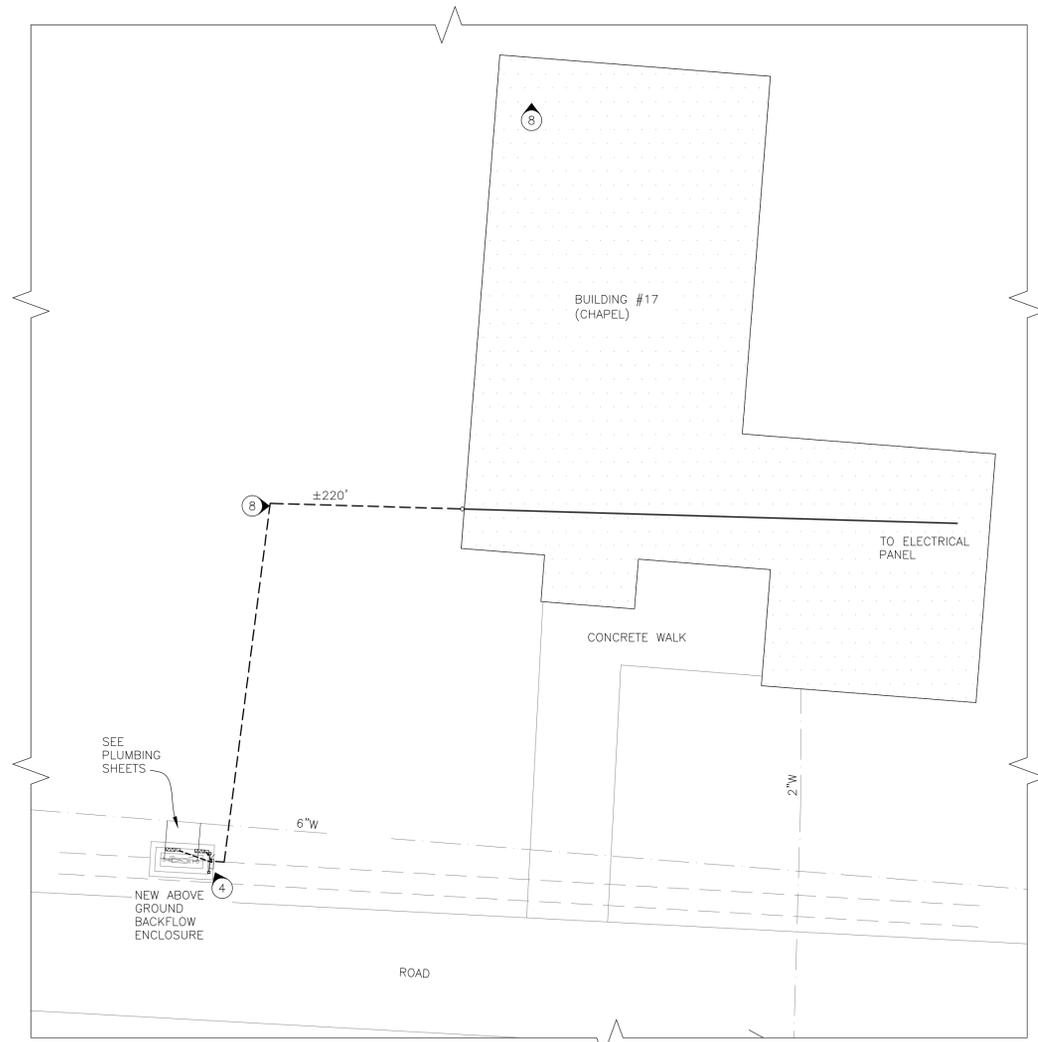
NOTES
 BOX TO BE DESIGNED FOR USE WITH 6" RPZ INSTALLATION, INCLUDING WATER DISCHARGE PORTS THAT MEET FULL 6" RPZ DISCHARGE FLOW. PROVIDE WITH (2) WET/DAMP RATED ELECTRIC HEATERS (SEE SCHEDULE FOR WATTAGE). CONTRACTOR IS RESPONSIBLE FOR FINAL SIZING OF BOX BASED ON PLANNED INSTALLATION, FITTINGS, VALVES AND BACKFLOW PREVENTER. VERIFY WITH MANUFACTURER THAT SIZING INCLUDES CLEARANCE FOR ELECTRIC HEATERS. PROVIDE FINAL SCALED DRAWING SHOWING PLANNED INSTALLATION OF PIPING, HEATERS AND ENCLOSURE FOR VERIFICATION OF FIT.

VALVE BOX EQUIVALENT MANUFACTURERS:
 • SAFE-T-COVER; WWW.SAFE-T-COVER.COM
 • AQUASHIELD ENCLOSURES; WWW.AQUASHIELDENCLOSURES.COM





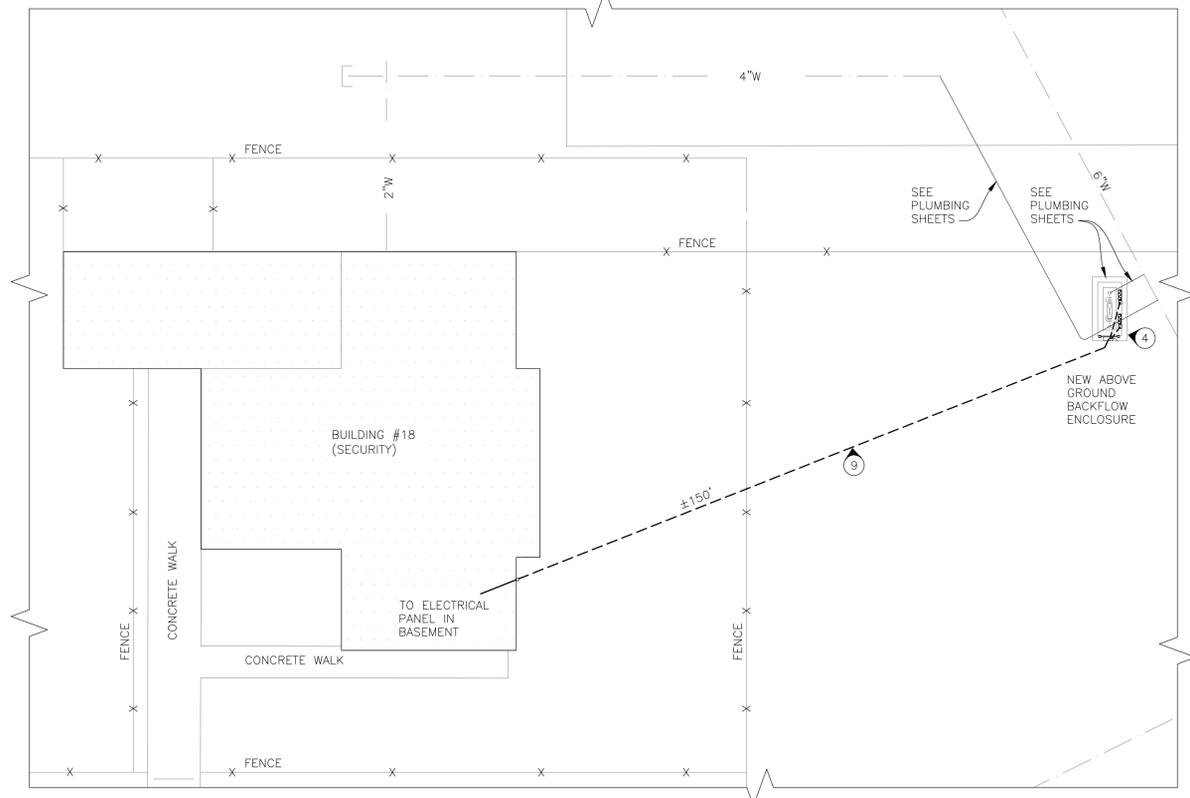
1 SITE PLAN
SCALE: 1"=100'-0"



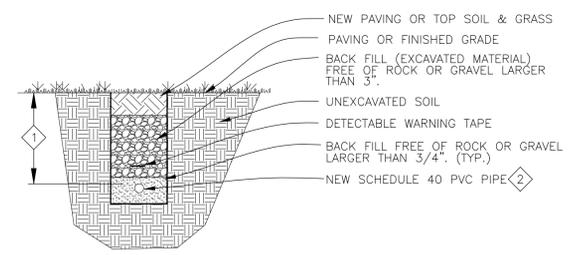
2 BUILDING 17 (CHAPEL) POWER PLAN
SCALE: 1/16"=1'-0"

NOTES

- 1 ALL EXPOSED LINE VOLTAGE WIRING SHALL BE COPPER AND PULLED IN PROPERLY SIZED CONDUIT (EMT) WITH APPROVED FITTINGS. ALL CONDUIT IS TO BE RUN NEATLY AND PARALLEL TO BUILDING LINES. INSTALL PULL BOXES ON ANY RUNS THAT REQUIRE MORE THAN 360' WORTH OF BENDS. RUN PVC CONDUIT UNDERGROUND TO HEATER LOCATIONS.
- 2 CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ELECTRICAL PERMITTING FEES AND COORDINATION WITH LOCAL AUTHORITY ON INSTALLATION INSPECTIONS. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES AND REGULATIONS.
- 3 IF ANY ELECTRICAL EQUIPMENT SPECIFIED IN THE DRAWINGS IS SUBSTITUTED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE EQUIPMENT'S ELECTRICAL PROTECTION PER THE MANUFACTURER'S NAMEPLATE.
- 4 AT NEW HOT BOX, ELECTRICAL DISCONNECT SHALL BE PLACED ON ADJACENT RACK. RACK TO BE UNISTRUT WITH BASE PLATES BOLTED TO PAD. DISCONNECT SHALL BE MOUNTED AT 44" AFF AND BOLTED TO CONCRETE PAD. ELC TO SUPPLY AND INSTALL DISCONNECT. DISCONNECT TO BE 60A, TWO POLE, NON FUSED AND ENCLOSED IN A NEMA 3R ENCLOSURE AND LOCKABLE. ROUTE (2) CONDUITS FROM 120/208V ELECTRICAL PANELS TO DISCONNECTS. THEN RUN 1/2" GRS UNDERGROUND AND UP INTO THE HOT BOX TO 8" MIN. AFF AND INTO THE (2) NEW GFCI OUTLETS IN THREADED BELL BOX AND WP IN USE COVER. COORDINATE EXACT LOCATION WITH PLUMBING SHEET DETAIL OF PAD.
- 5 CONTRACTOR TO FURNISH O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE PRIOR TO SUBSTANTIAL COMPLETION.
- 6 CONTRACTOR TO FURNISH AS-BUILT DRAWINGS FOR THE ELECTRICAL SYSTEMS.
- 7 CONTRACTOR TO MARK PANEL SCHEDULES TO ADD HOT BOX HEATERS. TURN OFF ANY NON USED BREAKERS AND MARK AS SPARE.
- 8 CONTRACTOR TO PROVIDE (2) 20A CIRCUITS FROM EXISTING 120/208V 42 SPACE ELECTRICAL PANEL "A" IN CHAPEL BUILDING TO HOT BOX DISCONNECT AND (2) GFCI OUTLETS FOR HOT BOX 1500W HEATERS. PLACE 20A CIRCUIT BREAKER IN BLANK SPACE #13 AND USE EXISTING 20A BREAKER IN SPACE #17. RUN (3) #6 CU THWN AND (1) #10 GND IN (1) 1" CONDUIT ON CEILING TO RESTROOM WALL, OUT THE WALL AND UNDER GROUND TO DISCONNECT. THEN RUN (2) #12 CU THWN AND (1) #12 CU GND IN 1/2" GRS TO HEATER GFCI OUTLETS AT MIN. 8" AFF. (2 1500W HEATERS) COORDINATE EXACT LOCATIONS FOR EQUIPMENT WITH MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
- 9 CONTRACTOR TO PROVIDE (2) 20A CIRCUITS FROM EXISTING 120/208V ELECTRICAL PANEL (LP18-1) TO HOT BOX DISCONNECT AND (2) GFCI OUTLETS IN NEMA 3R ENCLOSURES AT 8" MIN AFF. CONNECT TO EXISTING 20A SPARE CIRCUIT BREAKERS AT POSITIONS #35/37 AND RUN (4) #8 CU THWN AND (1) #10 GND IN (1) 1" CONDUIT ON CEILING TO OUTER WALL AND UNDERGROUND TO HEATER DISCONNECT. THEN RUN (2) #12 CU THWN AND (1) #12 CU GND IN 1/2" GRS TO EACH OUTLET, UNDER SLAB FOR TWO 1500W HEATERS. COORDINATE EXACT LOCATIONS FOR EQUIPMENT WITH MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
- 10 SEE G002 FOR GENERAL NOTES.

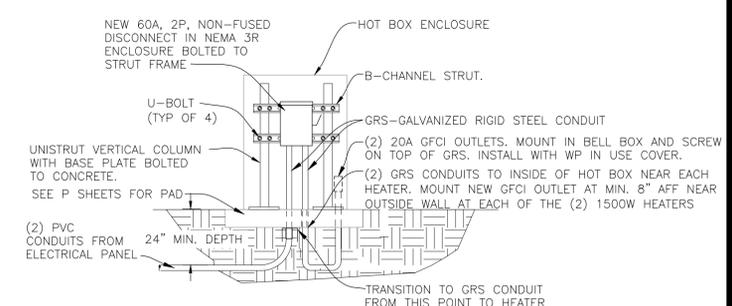


3 BUILDING 18 (SECURITY) POWER PLAN
SCALE: 1/16"=1'-0"



- 1 24" MINIMUM BENEATH STREETS, ALLEYS, AND PARKING. 18" MIN. BENEATH GRASS/EARTH.
- 2 1" CONDUIT CHASE FOR ELECTRIC.

4 ELECTRICAL TRENCH DETAIL
SCALE: NONE



5 ELECTRICAL DISCONNECT MOUNTING DETAIL
SCALE: NONE

STATE OF MISSOURI
MICHAEL L. PARSON,
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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION
DEPARTMENT OF
CORRECTIONS

UPGRADE BACKFLOW
PREVENTER,
INFRASTRUCTURE
BOONVILLE CORRECTIONAL
CENTER
1216 EAST MORGAN STREET
BOONVILLE, MO 65233

PROJECT # C1906-01
SITE # 7002
ASSET # 9327002063

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/10/2019

CAD DWG FILE: BCBP-e.dwg
DRAWN BY: MDS
CHECKED BY: TJS
DESIGNED BY: MDS

SHEET TITLE:
**ELECTRICAL
POWER
PLAN**

SHEET NUMBER:
E-101
8 OF 8 SHEETS
12/10/2019