

1 SITE LOCATION MAP
SCALE: NTS
NORTH

NEW AIRPORT RD. BFP BUILDING LOCATION WITH (2) 10" WATTS MODEL LF 909M1 REDUCED PRESSURE ZONE BACKFLOW PREVENTERS.

SITE LOCATION: WESTCHESTER COUNTY AIRPORT

NEW TOWER RD. BFP BUILDING LOCATION WITH (2) 10" WATTS MODEL LF 909M1 REDUCED PRESSURE ZONE BACKFLOW PREVENTERS. REFER TO DRAWING P-002 FOR SITE PLAN.

NOTE: REFER TO DRAWING P-002 FOR PLUMBING SITE PLAN DETAILS.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
—	EX.	EXISTING TO REMAIN
—	NEW	NEW WORK
—	DEM.	EXISTING TO BE REMOVED
—	CW	COLD WATER
—	AFF	ABOVE FINISHED FLOOR
—	BFP	BACK FLOW PREVENTER
—	DCV	DOUBLE CHECK VALVE
—	DN.	ELBOW DOWN
—	MAX.	MAXIMUM
—	MIN.	MINIMUM
—	PC	PLUMBING CONTRACTOR
—	RPZ	REDUCED PRESSURE ZONE
—	TYP	TYPICAL
▶	-	DIRECTION OF FLOW
—	WCA	WESTCHESTER COUNTY AIRPORT
—	WJWW	WESTCHESTER JOINT WATER WORKS

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EQUIPMENT NOTES:

- 10" BACKFLOW PREVENTER ASSEMBLY (TYPICAL FOR 4 BACKFLOW PREVENTER DEVICES - PRIMARY & SECONDARY): SHALL BE WATTS MODEL LF909M1 REDUCED PRESSURE ZONE ASSEMBLY LEAD FREE. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL CONSIST OF A PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES AND CAPTURED SPRINGS. BACKSIPHONAGE PROTECTION SHALL INCLUDE PROVISION TO ADMIT AIR DIRECTLY INTO THE REDUCED PRESSURE ZONE VIA A SEPARATE CHANNEL FROM THE WATER DISCHARGE CHANNEL. THE ASSEMBLY SHALL INCLUDE TWO TIGHTLY CLOSING SHUTOFF VALVES BEFORE AND AFTER THE VALVE AND TEST COCKS. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES & FOUR BALL TYPE TEST COCKS. UL, FM APPROVED BACKFLOW PREVENTERS SHALL INCLUDE UL/FM APPROVED OSY GATE VALVES.
- 10" WATER METER SHALL BE SENSUS OMNI+FIREFLINE F2
 - NSF/ANSI STANDARD 61.
 - STRAINER: UL LISTED/FM APPROVED, FIRE RATED, SENSUS V SHAPED
 - UNIT OF MEASURE SHALL BE HUNDREDS OF CUBIC FEET
 - REMOTE READING SYSTEM.
 - CONTRACTOR SHALL PROVIDE ALL ASSOCIATED COMPONENTS FOR REMOTE READING SYSTEM INCLUDING EXTERIOR WALL MOUNTED RADIO TRANSMITTER SENSUS SMARTPOINT 510M, 3-WIRE, DUAL PORT AND ALL ASSOCIATED WIRING.
 - NOTE: FINAL WATER METER SIZE, MODEL, AND DIMENSIONS SHALL BE REVIEWED AND APPROVED BY THE WESTCHESTER JOINT WATER WORKS PRIOR TO INSTALLATION. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION AND ALL RELATED WATER DEPARTMENT FEES.
- LEAK DETECTION: SHALL BE SIMILAR TO LIEBERT LIQUI-TECT POINT LEAK-DETECTION SENSOR MODEL #: LT410 MOUNTED ON FLOOR OF ROOM. EXTERNAL POWER AND CONTROL WIRING ON FLOOR SHALL BE PROTECTED WITH CABLE PROTECTOR SYSTEM. PROVIDE OUTPUT TO REMOTE MONITORING SYSTEM.

PROPOSED PHASING NOTES

- EXISTING BFP BUILDING AT TOWER ROAD TO REMAIN ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY.
 - CONSTRUCT NEW BFP BUILDING AT TOWER ROAD & AIRPORT ROAD. VALVE & CAP NEW 12" UNDERGROUND PIPING UNTIL NEW 12" UNDERGROUND WATER MAIN IS INSTALLED. CONNECTION TO NEW 12" UNDERGROUND WATER MAIN SHALL NOT BE COMPLETED UNTIL CERTIFICATE OF COMPLETION IS PROVIDED BY WC DOH.
 - PRESSURE TEST AND DISINFECT THE NEW PIPING.
 - ENERGIZE THE NEW 12" WATER SERVICE PIPING.
 - DEMOLISH EXISTING BACKFLOW PREVENTER BUILDING AT TOWER RD.
- NOTE: REFER TO CIVIL DRAWINGS FOR ADDITIONAL PHASING INFORMATION AND CONSTRUCTION SEQUENCE.

BUILDING INFORMATION

ADDRESS: 240 AIRPORT RD.
WHITE PLAINS NY, 10604
COUNTY: WESTCHESTER

GENERAL NOTES:

- ADEQUATE HEAT AND LIGHT SHALL BE PROVIDED IN LOCATIONS WHERE BACKFLOW PREVENTERS ARE TO BE INSTALLED.
- THE CONTRACTOR SHALL USE ONLY AMERICAN MADE, UL/FM APPROVED VALVES.
- NO WORK SHALL PROCEED WITHOUT WESTCHESTER JOINT WATER WORKS (WJWW) AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH APPROVAL.
- BACKFLOW PREVENTER ARRANGEMENT SHALL NOT BE ALTERED WITHOUT PRIOR APPROVAL BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
- BACKFLOW PREVENTION SHALL BE PROTECTED FROM THE HIGHEST FLOOD LEVEL.
- BY-PASSES AROUND BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE PERMITTED.
- BACKFLOW PREVENTER DEVICE SHALL BE TESTED INITIALLY AND ANNUALLY BY A CERTIFIED AND LICENSED TESTER. AT THE TIME OF INITIAL TESTING PART A AND B OF DOH 1013 FORM MUST BE COMPLETED, TEST RESULTS (FORM DOH 1013) SHALL BE FORWARDED TO THE WJWW, WESTCHESTER COUNTY DEPARTMENT OF HEALTH, OWNER AND ENGINEER.
- THE BACKFLOW PREVENTER SHALL BE REBUILT EVERY FIVE YEARS.
- ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER AND ACCORDING TO DEPARTMENT OF PUBLIC WORKS REGULATIONS.
- CONTRACTOR SHALL DISINFECT AND PRESSURE TEST BACKFLOW PREVENTER ASSEMBLY BEFORE PLACING IN SERVICE. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651-05 WITH THE EXCEPTION OF SECTION 4.4.2.
- CONTRACTOR SHALL ADEQUATELY SUPPORT ALL PIPING AND DEVICES.
- WHERE THE DISTANCE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTER ASSEMBLY IS GREATER THAN 10'-0", ALL EXPOSED PIPING SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER - DO NOT TAP" AT 5'-0" INTERVALS.

INSTALLATION NOTES:

- STRAINERS ARE RECOMMENDED PRIOR TO EACH BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY. NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
- ASSEMBLIES SHOULD BE SPECIFIED AND INSTALLED WITH MANUFACTURER SUPPLIED VALVES.
- WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FOULING THE DEVICE CHECK VALVES.
- DEVICES MUST BE MOUNTED HORIZONTALLY UNLESS APPROVED FOR VERTICAL INSTALLATION.
- ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.

NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH WESTCHESTER COUNTY DEPARTMENT OF HEALTH REQUIREMENTS.

SITE PLAN NOTES:

- BACKFLOW PREVENTERS ARE MINIMUM 1 FOOT ABOVE THE 100 YEAR FLOOD ELEVATION.
- CATASTROPHIC DISCHARGE FLOWS TO NON-PEDESTRIAN TRAFFIC AREAS. REFER TO DRAWINGS & ENGINEER'S REPORT FOR CALCULATIONS.
- PIPING MATERIALS:
COMPLY WITH REQUIREMENTS FOR PIPING & FITTING MATERIALS AND JOINING METHODS FOR SERVICE PIPING.
POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF 61 ANNEX G.
COMPLY WITH NSF STANDARD 372 FOR LOW LEAD.
DUCTILE-IRON SERVICE PIPE AND FITTINGS

MECHANICAL-JOINT, DUCTILE-IRON PIPE:
AWWA C151/A21.51, WITH MECHANICAL-JOINT FLANGED ENDS.
GASKETS, AND BOLTS: AWWA C111/A21.11, RUBBER GASKETS, AND STEEL BOLTS.

PIPE JOINING MATERIALS
PIPE-FLANGE GASKET MATERIALS: AWWA C110, RUBBER, FLAT FACE, 1/8 INCH THICK OR ASME B16.21, NONMETALLIC AND ASBESTOS FREE, UNLESS OTHERWISE INDICATED; FULL-FACE OR RING TYPE UNLESS OTHERWISE INDICATED.
METAL, PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.

IRON GATE VALVES
CLASS 150, OS&Y, IRON GATE VALVES (LEAD FREE):
STANDARD: MSS SP-70, TYPE I.
CWP RATING: 200 PSIG.
BODY MATERIAL: ASTM A 126, GRAY IRON WITH BOLTED BONNET.
ENDS: FLANGED.
TRIM: BRONZE.
DISC: SOLID WEDGE.
PACKING AND GASKET: ASBESTOS FREE.
- PIPING INSULATION FOR COLD WATER FOR NPS 1-1/2 AND LARGER SHALL BE ONE OF THE FOLLOWING FOR FLUID OPERATING TEMPERATURE 40-60 DEG F:
CELLULAR GLASS: 1 INCH THICK
FLEXIBLE ELASTOMERIC: 1 INCH THICK
MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH THICK

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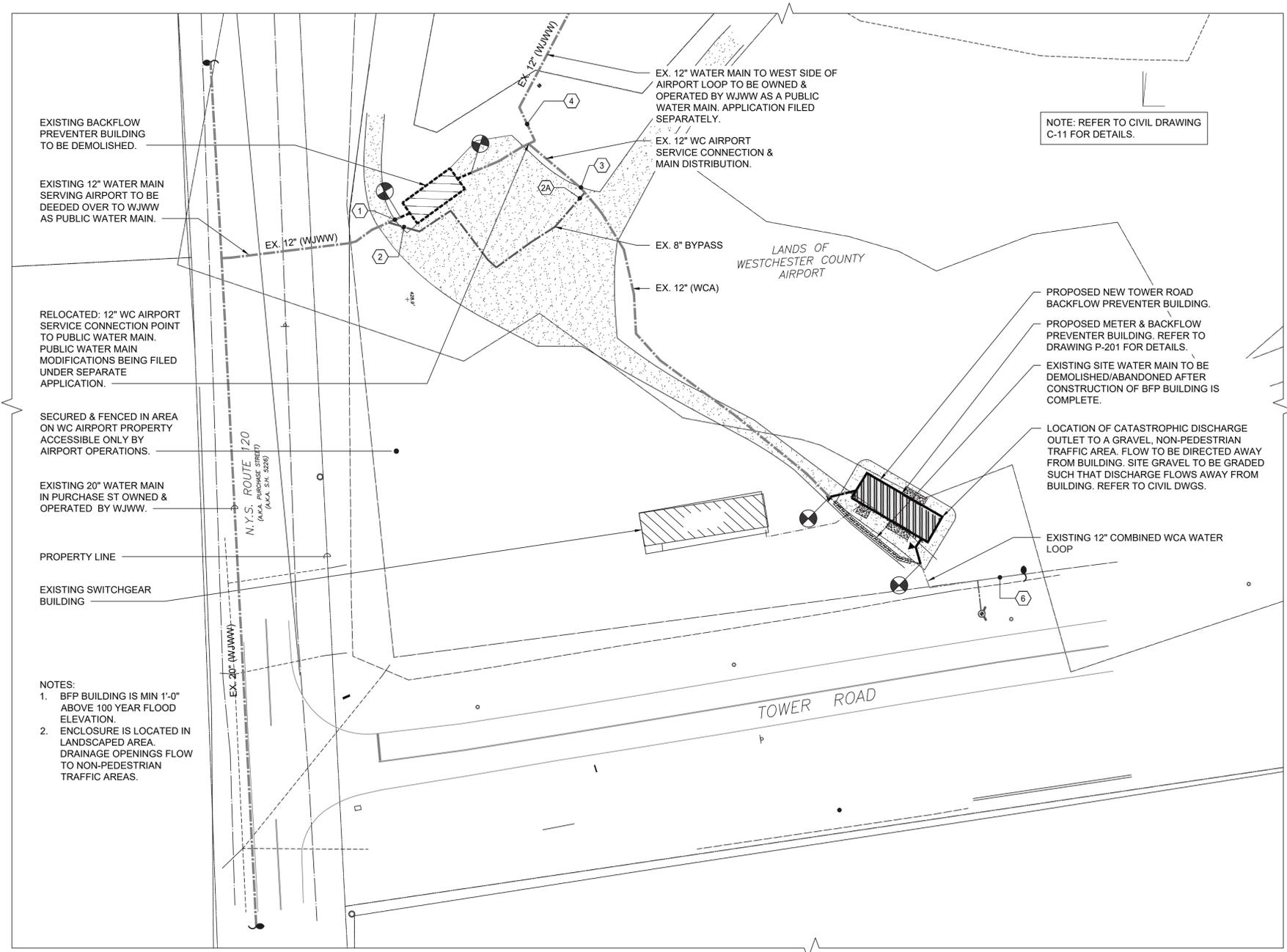
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
PLUMBING
SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

CONTRACT NUMBER 22-522	SHEET NUMBER P-001
SHEET NO. 42 OF 61	
SCALE: AS SHOWN DATE: 12/09/2022	
DPW FILE NO. 48-17-P-167	REV. 0



VALVE TAG SCHEDULE

1	EXISTING 12" VALVE
2	EXISTING 8" VALVE
2A	EXISTING 8" VALVE
3	EXISTING 12" VALVE
4	EXISTING 12" VALVE
6	EXISTING 12" VALVE

NOTES:
 1. LOCATIONS OF EXISTING VALVES ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD.
 2. REFER TO SITE UTILITIES PLAN FOR CONTINUATION.

SYSTEM SHUTDOWN NOTE:
 1. REFER TO WATER MAIN EXTENSION SUBMISSION FILED SEPARATELY. FILE ID: C21-033, C21-034 PREPARED BY D&B ENGINEERS FOR ADDITIONAL SEQUENCING AND CONSTRUCTION PHASING INFORMATION ON THE ANTICIPATED DURATION OF SHUTDOWN OF EXISTING SEGMENT OF WCA WATER LOOP APPROXIMATELY 6,000 LF.

CONSTRUCTION SEQUENCE

PHASE 1A (REFER TO CIVIL DRAWING G-01 FOR ADDITIONAL DETAILS):
 1. CONSTRUCT NEW AIRPORT ROAD BACKFLOW PREVENTER BUILDING IN ACCORDANCE WITH WCDOH APPROVED DOCUMENTS. REFER TO DRAWING P-003.
 2. CONSTRUCT NEW WATER MAIN EXTENSION TO NEW KING STREET. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

PHASE 1B: CONSTRUCTION AND ACTIVATION OF NEW TOWER RD BACKFLOW PREVENTER BUILDING:
 1. CONSTRUCT NEW TOWER ROAD BACKFLOW PREVENTER BUILDING. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ACCORDANCE WITH WCDOH APPROVED DOCUMENTS. PRESSURE TEST, DISINFECT, INSPECT AND SIGN OFF BFP INSTALLATION
 2. SHUTDOWN THE SOUTH SERVICE CONNECTION AND CONSTRUCT 12" CONNECTIONS TO THE NEW TOWER ROAD BACKFLOW PREVENTER BUILDING TO TIE IN TO THE EXISTING WATER MAIN. THIS WORK SHALL BE COORDINATED WITH WC AIRPORT OPERATIONS AND WJWW TO MINIMIZE DOWNTIME.
 • CLOSE VALVE #3 AND VALVE #6.
 • VALVE #4 REMAINS OPEN TO SUPPLY WCA SERVICE LOOP.
 3. PRESSURE TEST, DISINFECT, INSPECT AND SIGN OFF BFP INSTALLATION IN NEW TOWER ROAD BUILDING. FILE ALL FORMS AND RESULTS WITH WC DOH FOR APPROVAL.
 4. ISOLATE EXISTING TOWER ROAD BACKFLOW PREVENTER BUILDING FOR DEMOLITION & RESTORE SOUTH SERVICE CONNECTION TO OPERATION:
 • OPEN NORMALLY CLOSED BYPASS VALVES #2 AND #2A. VALVE #3 REMAINS CLOSED
 • CLOSE VALVE #1 AND #4 TO ISOLATE EXISTING WATERMAIN FOR BUILDING DEMOLITION.
 • OPEN VALVE #6.
 • RESTORE WCA SOUTH SERVICE CONNECTION. WEST SIDE OF SERVICE LOOP IS ISOLATED.

PHASE 2: DEMOLISH EXISTING TOWER RD BACKFLOW PREVENTER BUILDING
 1. BUILDING DEMOLITION SHALL OCCUR UPON COMPLETION OF CONSTRUCTION OF THE WORK LISTED ABOVE. DEMOLISH EXISTING STRUCTURE, EQUIPMENT AND PIPING COMPLETE.
 2. CONSTRUCT THE UNDERGROUND 12" WATER MAIN BETWEEN THE INLET AND OUTLET PIPING OF THE DEMOLISHED BUILDING. TEST AND DISINFECT ALL NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARDS. FILE ALL FORMS AND RESULTS WITH WC DOH FOR APPROVAL.
 3. PRESSURE TEST AND DISINFECT NEW PIPING AND FILE WITH WC DOH FOR APPROVAL.

REFER TO CIVIL DRAWINGS AND SEQUENCE NOTES ON G-01 FOR INFORMATION ON SUBSEQUENT PHASES:
 • PHASE 3: CONSTRUCTION OF EXISTING WATER SERVICE IMPROVEMENTS
 • PHASE 4: ABANDON BY-PASS WATER MAIN PIPING AT TOWER ROAD
 • PHASE 5: TESTING OF WATER MAIN
 • PHASE 6: OPERATION OF ALL DOMESTIC WATER LINE IMPROVEMENTS

NOTES:
 1. REFER TO CIVIL DRAWING G-01 FOR CONSTRUCTION SEQUENCE COORDINATION.
 2. EXISTING TOWER ROAD BACKFLOW PREVENTER BUILDING TO REMAIN ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY UNTIL PROJECT COMPLETION INCLUDING CONSTRUCTION OF THE NEW TOWER ROAD AND AIRPORT ROAD BACKFLOW PREVENTER BUILDING AND WATER MAIN EXTENSION. REFER TO CIVIL DRAWINGS FOR WATER MAIN WORK AND WC DOH FILE ID: 13502-21-RPZ (2) AND C21-033, C21-034
 3. EXISTING BFP BUILDING AT TOWER ROAD TO REMAIN ACTIVE CONSTRUCTION SHALL NOT PROCEED WITHOUT APPROVAL FROM WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
 4. SHUTDOWNS OF WATER MAIN SHALL BE SCHEDULED AND FULLY COORDINATED WITH WC AIRPORT, WESTCHESTER COUNTY DPW&T AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH. NOTIFICATION FOR SHUTDOWN SHALL BE PROVIDED A MINIMUM OF SEVEN DAYS IN ADVANCE.
 5. INTENT OF CONSTRUCTION PHASING/SEQUENCE IS TO MINIMIZE SHUTDOWNS WC AIRPORT WATER SERVICE.

NOTES:
 1. BFP BUILDING IS MIN 1'-0" ABOVE 100 YEAR FLOOD ELEVATION.
 2. ENCLOSURE IS LOCATED IN LANDSCAPED AREA. DRAINAGE OPENINGS FLOW TO NON-PEDESTRIAN TRAFFIC AREAS.

NOTE: REFER TO CIVIL DRAWING C-11 FOR DETAILS.

NOTE: PIPING SHOWN ON SITE PLAN IS APPROXIMATE AND FOR REFERENCE ONLY.

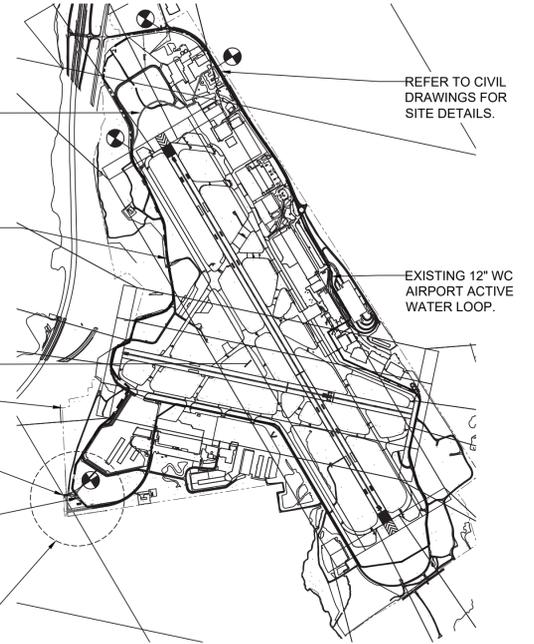
EXISTING 12" WC AIRPORT ACTIVE WATER LOOP.

DASHED LINE INDICATES WESTERN SEGMENT OF WATER MAIN TO BE SHUT DOWN TEMPORARILY DURING CONSTRUCTION. APPROXIMATELY 6,000 LF.

WC AIRPORT SITE
 PROPERTY LINE
 EX. 12" WATER SERVICE TAP FROM 20" MAIN IN PURCHASE ST.

NEW TOWER ROAD BFP BUILDING & WCA SERVICE CONNECTION.

AREA OF WORK: INTERSECTION OF TOWER RD. & PURCHASE ST. SECURED/FENCED AREA OF WC AIRPORT.



1 PLUMBING SITE PART PLAN - TOWER RD
 SCALE: 1" = 40'-0"
 NORTH

SITE KEY PLAN
 SCALE: NONE
 NORTH

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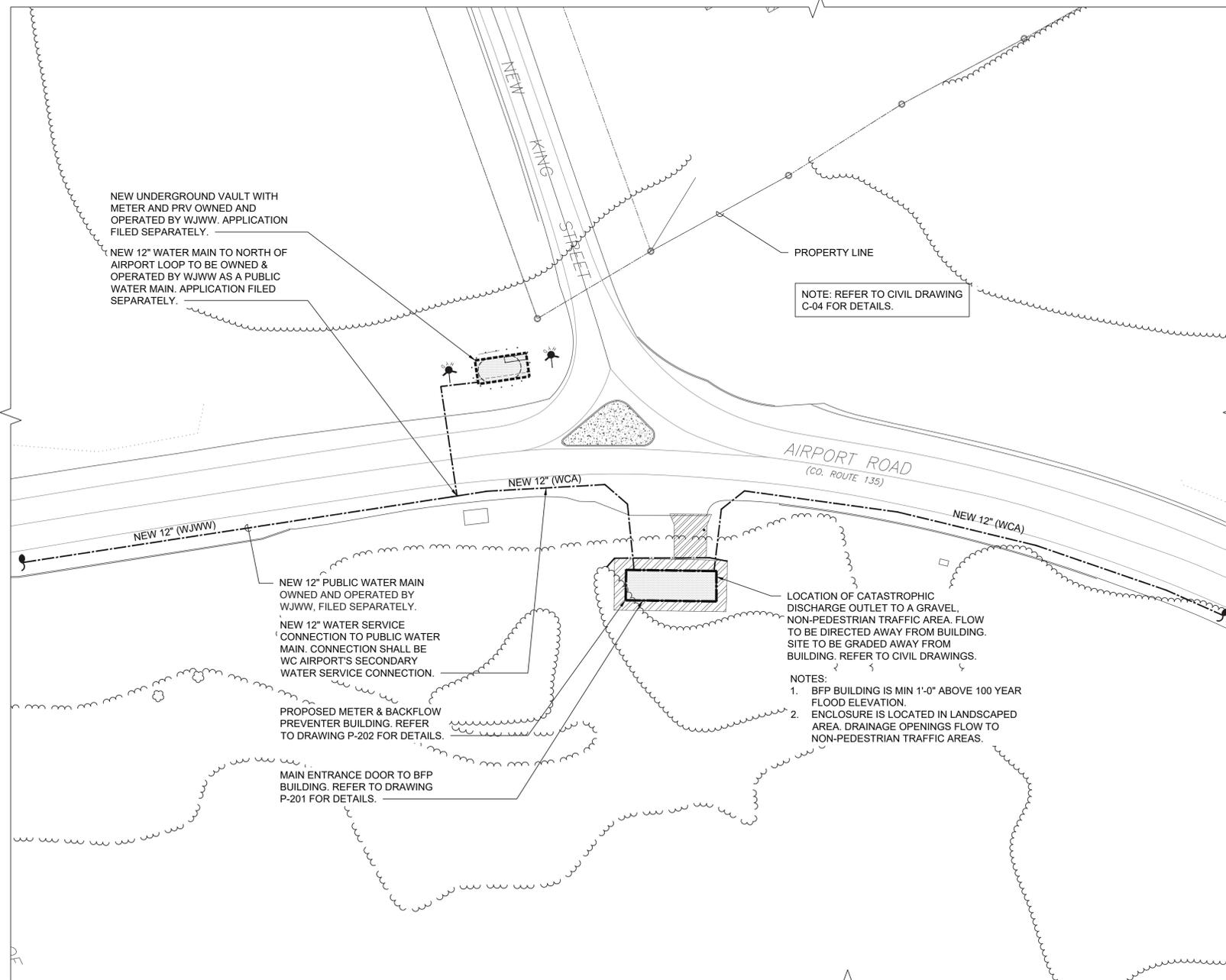
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WESTCHESTER COUNTY, NEW YORK
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 DIVISION OF ENGINEERING
 DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT
 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
 PLUMBING
 SITE PLAN - TOWER ROAD

CONTRACT NUMBER 22-522	SHEET NUMBER P-002
SHEET NO. 43 OF 61	
SCALE: AS SHOWN	
DATE: 12/09/2022	
DPW FILE NO. 48-17-P-168	REV. 0



1 PLUMBING SITE PART PLAN - AIRPORT RD
 SCALE: 1" = 40'-0"
 NORTH

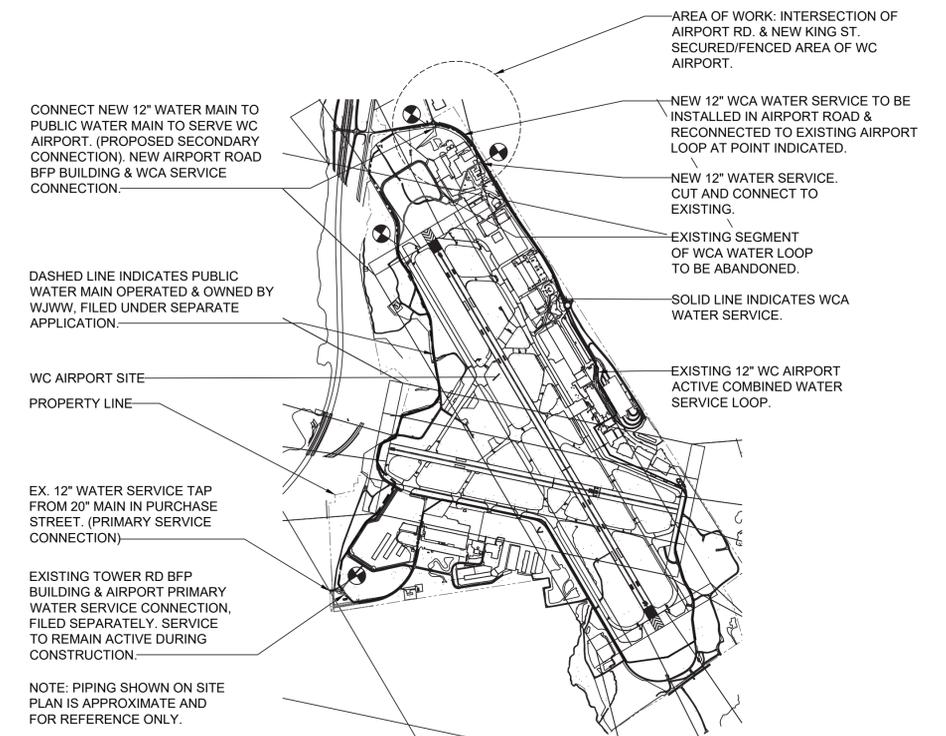
CONSTRUCTION SEQUENCE

PHASE 1A: CONSTRUCTION OF NEW FACILITIES AT NORTH END OF PROJECT. REFER TO CIVIL DRAWING G-01 FOR ADDITIONAL INFORMATION.

1. CONSTRUCT NEW AIRPORT ROAD BACKFLOW PREVENTER BUILDING IN ACCORDANCE WITH WCDOH APPROVED DOCUMENTS.
2. AIRPORT ROAD SERVICE CONNECTION SHALL NOT BE ENERGIZED UNTIL FINAL APPROVAL OF PUBLIC WATER MAIN. REFER TO FILE ID: C21-033, C21-034.
3. CONSTRUCT 12" CONNECTIONS TO EXISTING 12" WATER MAIN TO THE NEW AIRPORT ROAD BFP BUILDING.
4. PRESSURE TEST, DISINFECT, INSPECT AND SIGN OFF BFP INSTALLATION. FILE ALL FORMS AND RESULTS WITH WC DOH.
5. ENERGIZE THE NEW 12" WATER SERVICE PIPING TO THE NEW AIRPORT ROAD BFP BUILDING.

- NOTES:**
1. EXISTING TOWER RD BFP BUILDING SHALL BE MAINTAINED ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY UNTIL CONSTRUCTION IS COMPLETED. TOWER ROAD BUILDING DEMOLITION SHALL OCCUR UPON COMPLETION OF CONSTRUCTION OF THE AIRPORT ROAD BACKFLOW PREVENTER BUILDING AND WATER MAIN EXTENSION IS COMPLETE. REFER TO FILE ID: 13503-21-RPZ (2) & C21-033, C21-034.
 2. CONSTRUCTION SHALL NOT PROCEED WITHOUT APPROVAL FROM WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
 3. SHUTDOWNS OF WATER MAIN SHALL BE SCHEDULED AND FULLY COORDINATED WITH WC AIRPORT, WESTCHESTER COUNTY DPW&T AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH. NOTIFICATION FOR SHUTDOWN SHALL BE PROVIDED A MINIMUM OF SEVEN DAYS IN ADVANCE.
 4. INTENT OF CONSTRUCTION PHASING/SEQUENCE IS TO MINIMIZE SHUTDOWNS WC AIRPORT WATER SERVICE.

- SYSTEM SHUTDOWN NOTE:**
1. REFER TO WATER MAIN EXTENSION SUBMISSION FILED SEPARATELY; FILE ID: C21-033, C21-034 PREPARED BY D&B ENGINEERS FOR ADDITIONAL SEQUENCING AND CONSTRUCTION PHASING INFORMATION ON THE ANTICIPATED DURATION OF SHUTDOWN OF EXISTING SEGMENT OF WCA WATER LOOP APPROXIMATELY 6,000 LF.



SITE KEY PLAN
 SCALE: NONE
 NORTH

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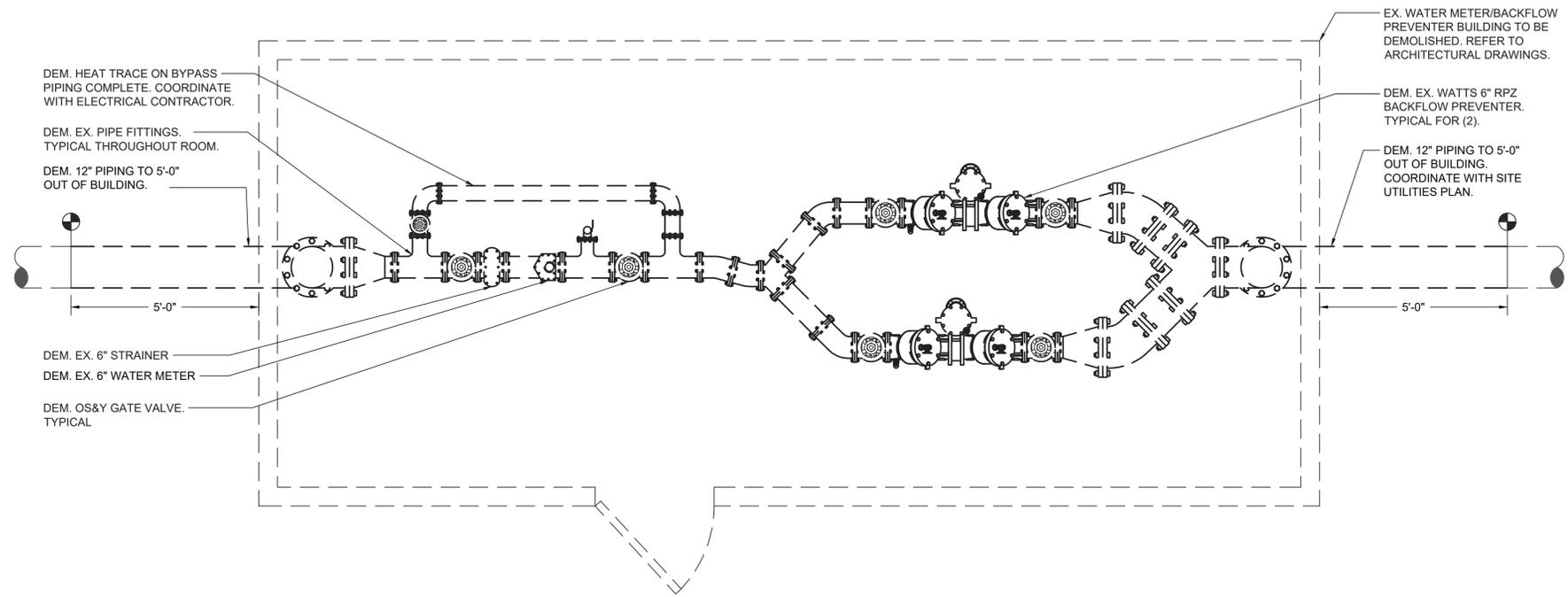
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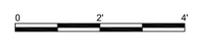
WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
 DIVISION OF ENGINEERING
 DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT
 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
 PLUMBING
 SITE PLAN - AIRPORT ROAD

CONTRACT NUMBER 22-522	SHEET NUMBER P-003
SHEET NO. 44 OF 61	
SCALE: AS SHOWN	
DATE: 12/09/2022	
DPW FILE NO. 48-17-P-169	REV. 0



1 PLUMBING DEMOLITION PLAN - TOWER RD
SCALE: 1/2" = 1'-0"

- NOTES:**
1. DEMOLISH ALL DOMESTIC COLD WATER PIPING, PIPE FITTINGS, VALVES, PIPING SUPPORTS COMPLETE. COORDINATE SHUTDOWN OF WATER SERVICE WITH WESTCHESTER COUNTY AIRPORT AND WESTCHESTER JOINT WATER WORKS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER METER READINGS PRIOR TO REMOVAL AND SHALL COORDINATE WITH WESTCHESTER JOINT WATER WORKS AS REQUIRED.
 3. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE EXISTING WATER METER AND RETURN TO WESTCHESTER JOINT WATER WORKS AS REQUIRED.
 4. EXISTING TOWER ROAD BACKFLOW PREVENTER BUILDING TO REMAIN ACTIVE UNTIL CONSTRUCTION OF THE NEW TOWER ROAD BFP BUILDING, AIRPORT ROAD BFP BUILDING AND WATER MAIN EXTENSION IS COMPLETE.
 5. EXISTING BFP BUILDING AT TOWER ROAD TO REMAIN ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY UNTIL PROJECT COMPLETION.
 6. SHUTDOWNS OF WATER MAIN SHALL BE SCHEDULED AND FULLY COORDINATED WITH WC AIRPORT, WESTCHESTER COUNTY DPW&T AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH. NOTIFICATION FOR SHUTDOWN SHALL BE PROVIDED A MINIMUM OF SEVEN DAYS IN ADVANCE.



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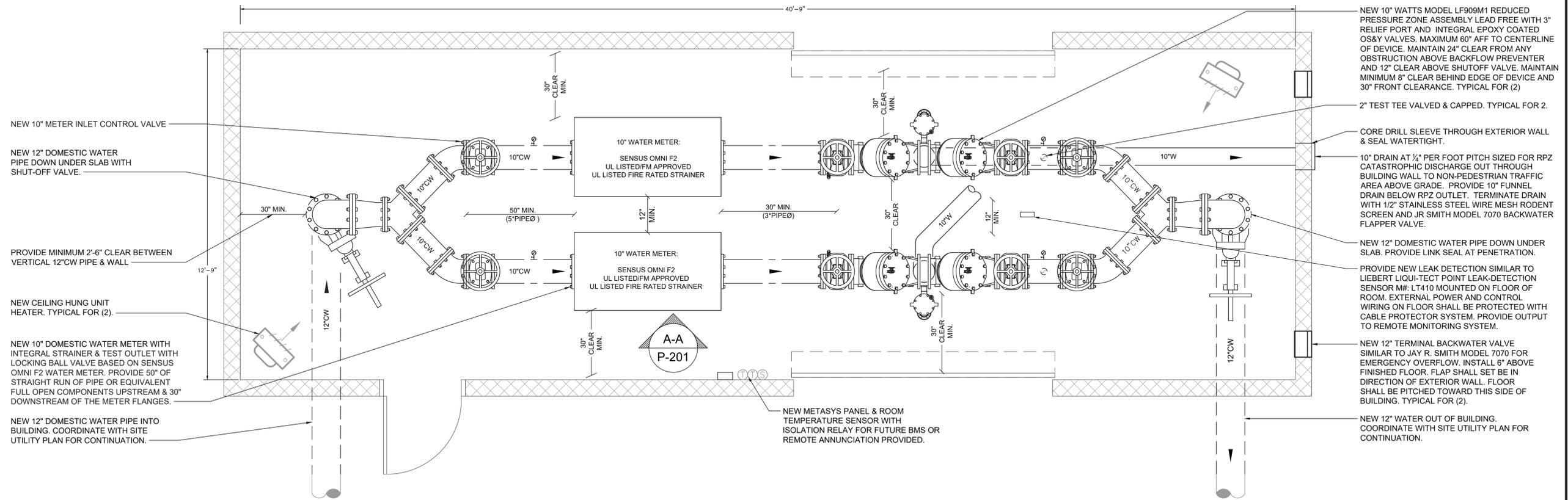
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DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
PLUMBING
DEMOLITION PLAN - TOWER RD

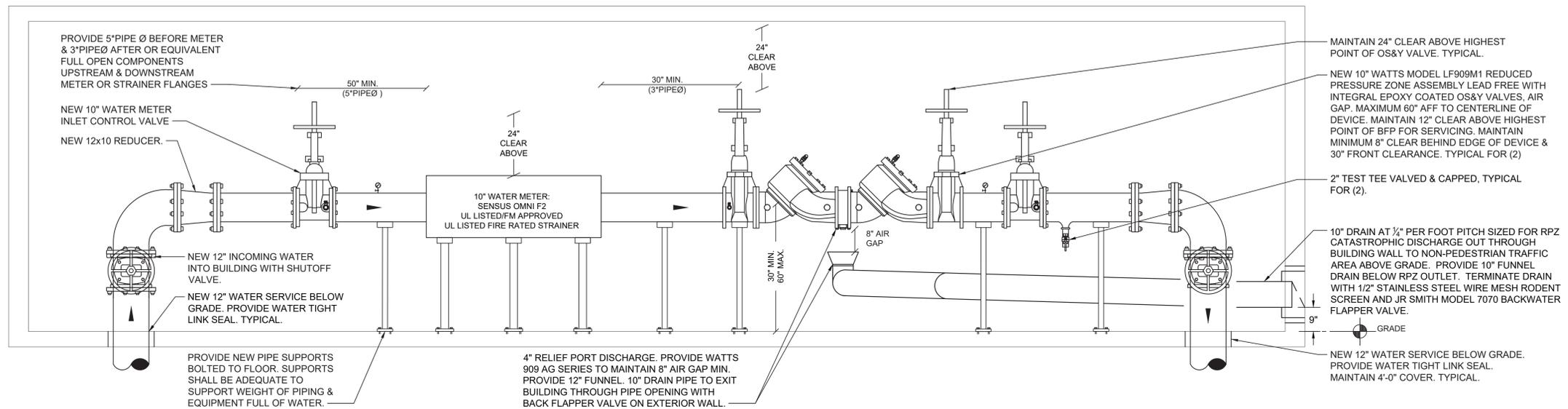
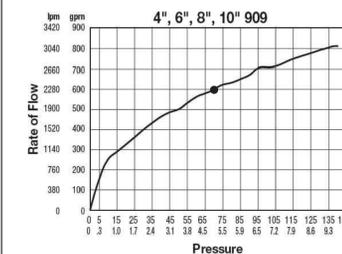
CONTRACT NUMBER 22-522	SHEET NUMBER P-101
SHEET NO. 45 OF 61	
SCALE: AS SHOWN DATE: 12/09/2022	
DPW FILE NO. 48-17-P-170	REV. 0



1 PLUMBING NEW WORK PLAN - TOWER RD.
SCALE: 1/2" = 1'-0"
NORTH

CATASTROPHIC FAILURE CALCULATIONS:

- CATASTROPHIC FAILURE FLOW RATE = 600 GPM @ 68 PSI PER BACKFLOW PREVENTER AS PER WATTS PUBLISHED DATA.
NOTE: STATIC PRESSURE BASED ON HYDRANT FLOW TEST CONDUCTED BY WJWW ON 12-29-2020.
- RPZ CATASTROPHIC FAILURE WATER DISCHARGE TO EXIT BUILDING THROUGH 10" PIPE OPENING WITH BACK FLAPPER VALVE ON EXTERIOR WALL.
- EMERGENCY OVERFLOW 12"Ø - MAX FLOW THROUGH (1) 12"Ø OPENING = 1,220 GPM



2 PLUMBING ELEVATION A-A
SCALE: 1/2" = 1'-0"

OLA Consulting Engineers
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8 West 38th Street,
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New York, NY 10018
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D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

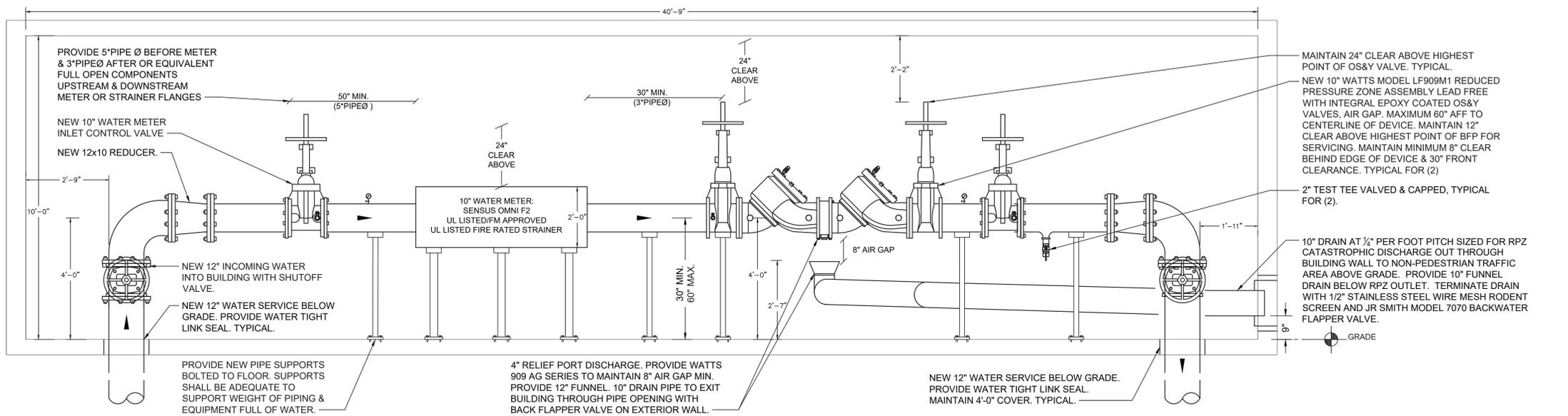
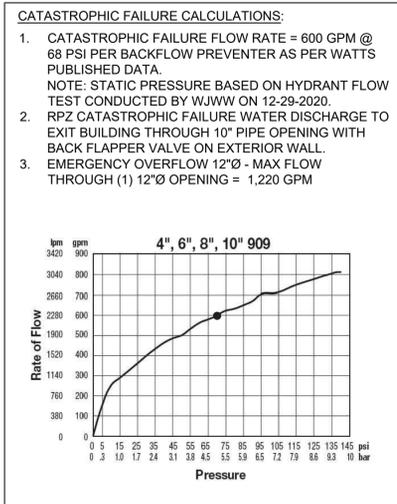
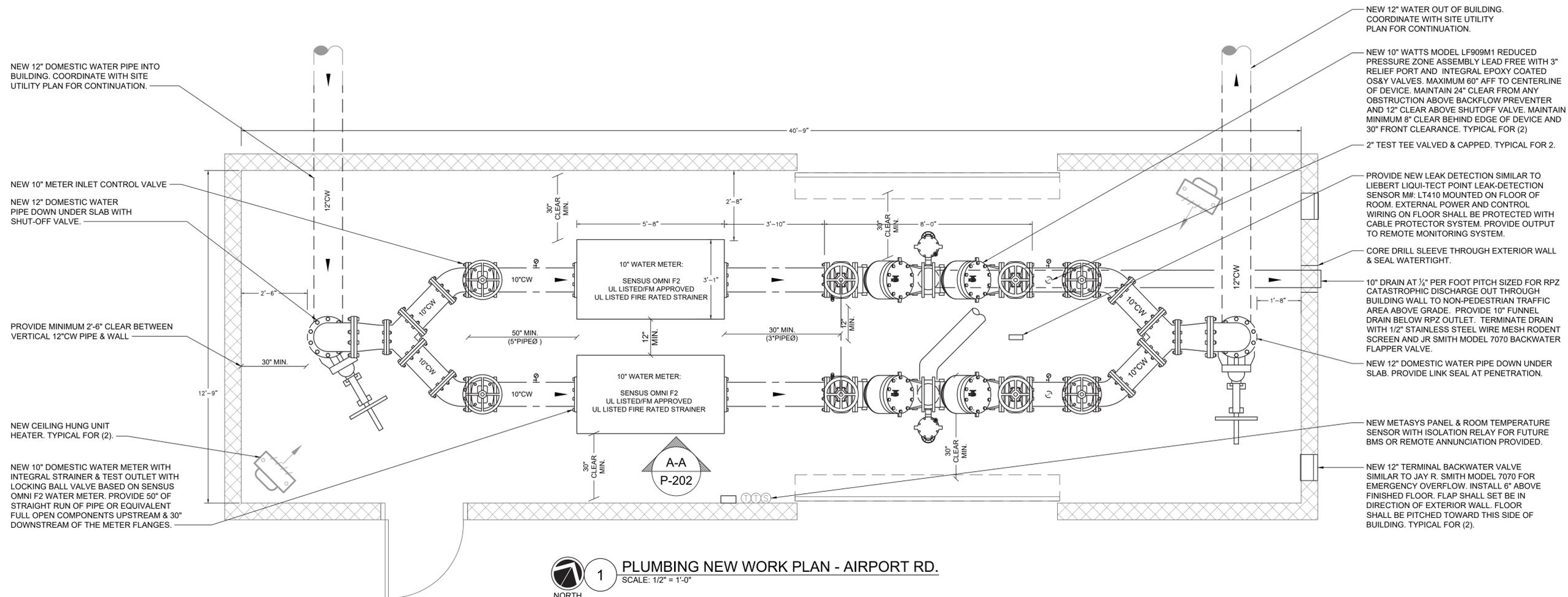
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING
DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
PLUMBING
NEW WORK PLAN - TOWER RD.

CONTRACT NUMBER 22-522	SHEET NUMBER P-201
SHEET NO. 46 OF 61	
SCALE: AS SHOWN DATE: 12/09/2022	
DPW FILE NO. 48-17-P-171	REV. 0



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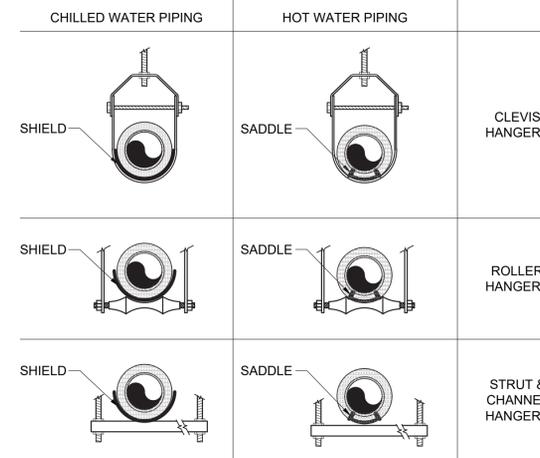
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AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____
DATE _____	DATE _____	DATE _____	DATE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING
DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
PLUMBING
NEW WORK PLAN - AIRPORT RD.

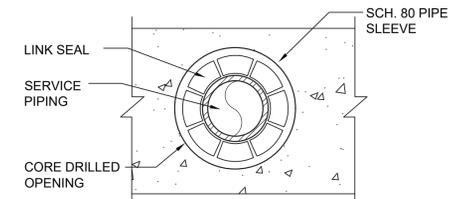
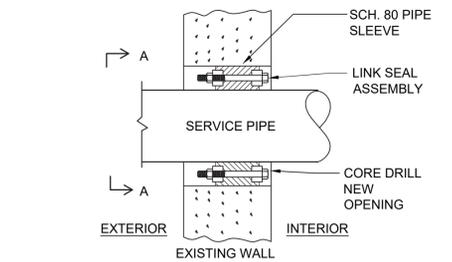
CONTRACT NUMBER 22-522	SHEET NUMBER P-202
SHEET NO. 47 OF 61	
SCALE: AS SHOWN	
DATE: 12/09/2022	REV. 0
DPW FILE NO. 48-17-P-172	



NOTES:

- INSULATION ON ALL COLD SURFACES SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL. HANGERS, SUPPORTS, ANCHORS, ETC., THAT ARE SECURED DIRECTLY TO COLD SURFACES SHALL BE ADEQUATELY INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION.
- GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGERS OR SUPPORTS AND THE PIPE INSULATION AS SHOWN ABOVE. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE.
- RIGID INSULATION INSERTS SHALL BE INSTALLED ON PIPE SIZES 1 1/2" (38 MM) OR LARGER AS SHOWN ABOVE. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJOINING INSULATION AND SHALL BE PROVIDED WITH VAPOR RETARDER SEALS.

4 PIPE INSULATION SADDLE/SHIELD SCHEDULE
SCALE: NONE

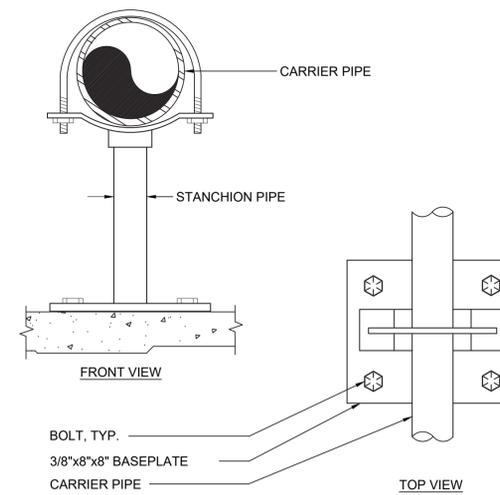


SECTION A-A
N.T.S.

NOTES:

- SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.

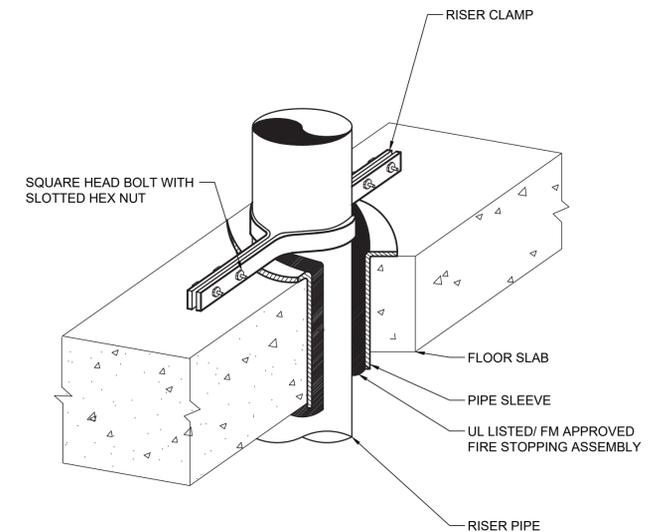
2 LINK SEAL DETAIL
SCALE: NONE



NOTES:

- ALL PIPE SUPPORTS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
- FOR NON FERROUS PIPING WITHOUT INSULATION, ALL SUPPORTS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC SPACER BETWEEN PIPE AND SUPPORT.

3 FLOOR MOUNTED PIPE SUPPORT DETAIL
SCALE: NONE



1 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE

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