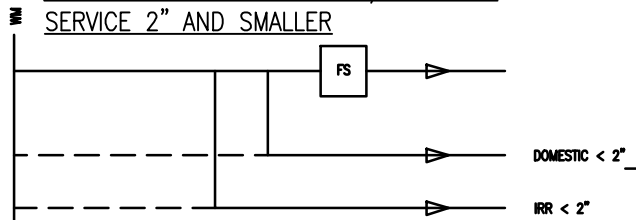
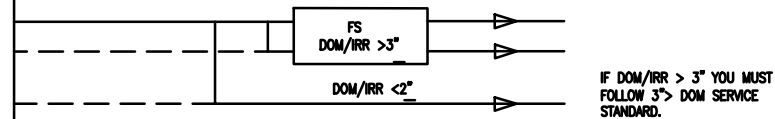


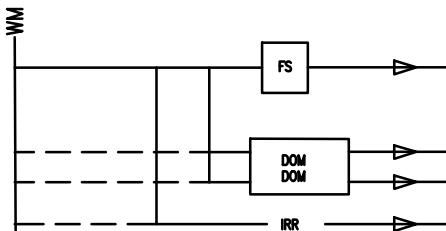
FIRE SERVICE WITH DOMESTIC/IRRIGATION SERVICE 2" AND SMALLER



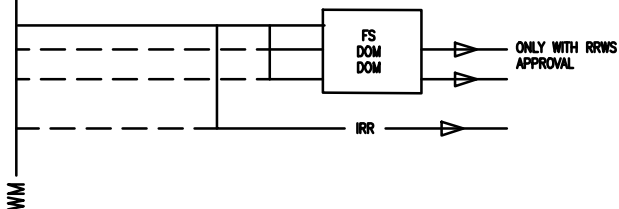
FIRE SERVICE WITH DOMESTIC/IRRIGATION SERVICE 3" AND LARGER



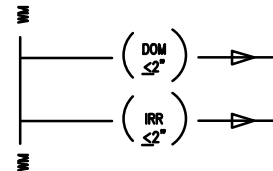
FIRE SERVICE WITH MULTIPLE DOMESTIC METERS



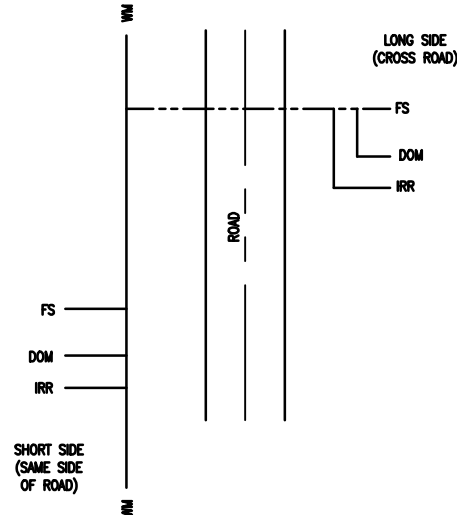
OR



DOMESTIC/IRRIGATION SERVICE 2" AND SMALLER WITH NO FIRE SERVICE



SHORT & LONG SIDE SERVICE DEFINITION



NOTES:

- 48 HOUR NOTICE REQUIRED PRIOR TO TAPPING MAIN AND VAULT/METER INSTALLATION.
- SHORT SIDE DOMESTIC AND IRRIGATION SERVICES SHALL BE TAPPED DIRECTLY ON WATER MAIN (I.E. NOT OFF THE FIRE SERVICE LINE), UNLESS APPROVED BY RRWS REPRESENTATIVE. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FIRE SERVICE LINE CAN MEET CUSTOMER'S DOMESTIC SERVICE, IRRIGATION SERVICE, AND FIRE SERVICE DEMANDS.
- LONG SIDE DOMESTIC AND IRRIGATION SERVICES ARE ALLOWED TO BRANCH OFF THE FIRE SERVICE LINE (I.E. NOT TAPPED DIRECTLY ON THE WATER MAIN.) IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FIRE SERVICE LINE CAN MEET CUSTOMER'S DOMESTIC SERVICE, IRRIGATION SERVICE, AND FIRE SERVICE DEMANDS.
- INSTALLATION OF A 3" OR 4" DOMESTIC SERVICE LINE UP TO AND AFTER A METER VAULT WITH A SMALLER METER IS ACCEPTABLE TO ALLOW FOR FUTURE METER SIZE UPGRADE. SEE NOTE 6 ON THIS SHEET AND DRAWINGS RR5.1 AND RR5.2.
- MONTHLY METER CHARGES MAY VARY DEPENDING ON SERVICE LINE SIZE AND METER SIZE. A HYBRID FEE MAY BE INSTITUTED IF SERVICE LINE SIZE IS DIFFERENT THAN METER SIZE.
- METERS DAMAGED DURING INSTALLATION SHALL BE REPAIRED OR REPLACED AT COST TO CONTRACTOR.

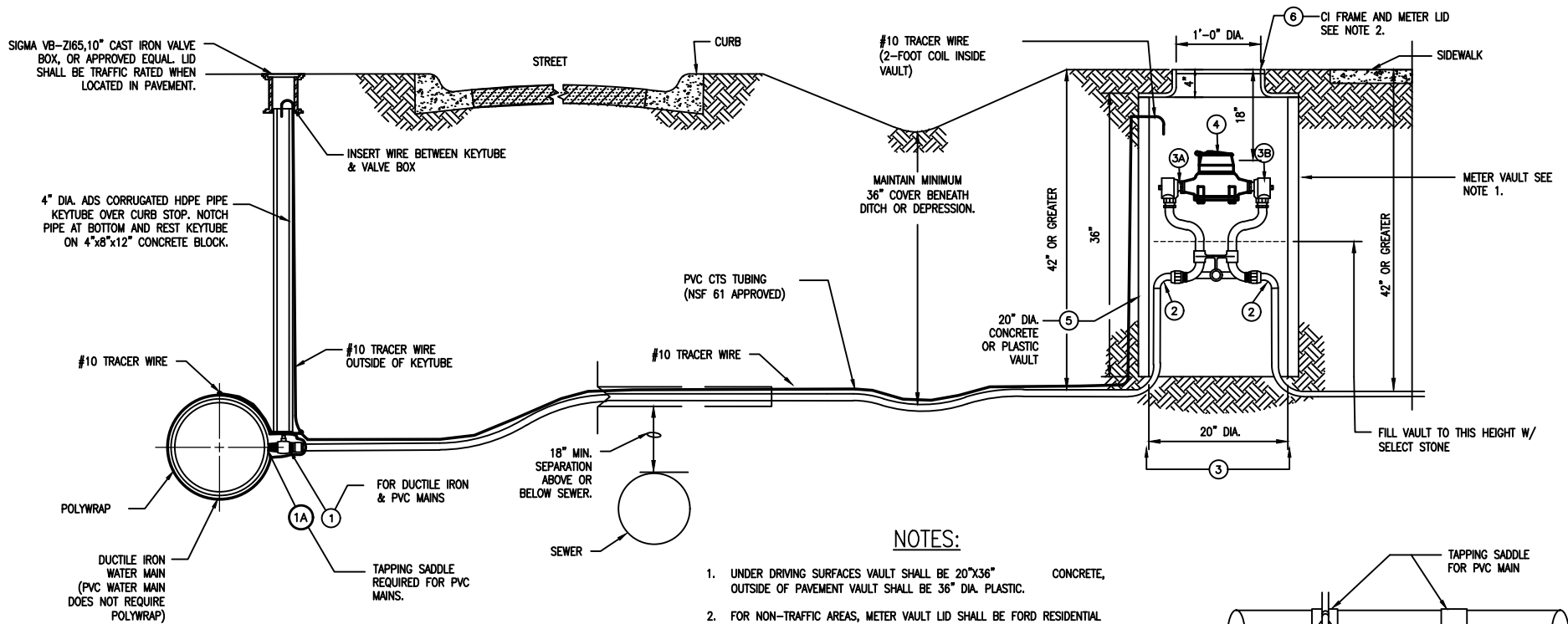
LEGEND

RRWS	RIVER RIDGE WATER SYSTEM
WM	WATER MAIN
FS	FIRE SERVICE
DOM	DOMESTIC SERVICE
IRR	IRRIGATION SERVICE
— — — — —	LONG SIDE SERVICE
- - - - -	SHORT SIDE SERVICE

RIVER RIDGE COMMERCE CENTER

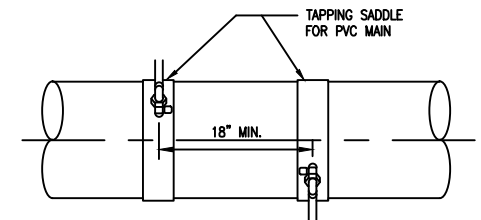
GENERAL NOTES AND GENERAL WATER SERVICE LAYOUTS

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR0	SHEET	1 OF 1



NOTES:

1. UNDER DRIVING SURFACES VAULT SHALL BE 20"x36" CONCRETE, OUTSIDE OF PAVEMENT VAULT SHALL BE 36" DIA. PLASTIC.
2. FOR NON-TRAFFIC AREAS, METER VAULT LID SHALL BE FORD RESIDENTIAL MODEL C4-T FRAME & LID, OR EQUAL. FOR TRAFFIC AREAS AND SIDEWALKS USE FORD RESIDENTIAL MODEL C3H-T FRAME AND LID, OR EQUAL. ALL COVERS SHALL USE LARGE PENTAGRAM BOLTS. BEVEL CONCRETE EDGES WHEN INSTALLED IN CONCRETE.
3. SERVICE LINE SHALL BE PVC CTS TUBING (NSF 61 APPROVED). FOR ALL SERVICES 10 FEET AND LONGER. ALL SERVICES LESS THAN 10 FEET LONG SHALL BE SCHEDULE 80 PVC (NSF 61 APPROVED).
4. POLYWRAP IS REQUIRED ON THE SERVICE LINE TO A DISTANCE OF 1-FOOT BEYOND THE CURB STOP IF STAINLESS STEEL SADDLE IS USED. SECURE THE POLYWRAP BY TAPING IT AROUND THE CURB STOP AND SADDLE.
5. INSTALL #10 BLUE COATED COPPERHEAD TRACER WIRE ON ALL SERVICE LINES FROM WATER MAIN SADDLE OR TAP TO METER VAULT. SECURE TRACER WIRE TO EXISTING WATER MAIN TRACER WIRE. USE GELCAP OR EQUIVALENT WIRE CONNECTORS ON TRACER WIRE. IF THERE IS NO EXISTING TRACER WIRE ON THE WATER MAIN, SECURE THE NEW WIRE TO THE SADDLE (PVC WATER MAIN) OR TAP (DI WATER MAIN). INSTALL TRACER WIRE THROUGH WALL OF METER VAULT (4" OR LESS BELOW TOP OF WALL) AND COIL 2-FOOT OF TRACER WIRE INSIDE OF METER VAULT.
6. BACKFLOW PREVENTION DEVICES THAT MEET INDIANA PLUMBING CODE AND IDEM REQUIREMENTS ARE REQUIRED FOR ALL IRRIGATION, DOMESTIC, AND FIRE SERVICES. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED YEARLY BY CUSTOMER WITH RESULTS PROVIDED TO RRWS.
7. BRASS FITTINGS ONLY, NO STAINLESS STEEL WITHOUT RRWS APPROVAL.
8. ANTI-SEIZE COMPOUND TO BE APPLIED TO ALL STAINLESS STEEL (S.S.) BOLTS.
9. COORDINATE WITH RRWS AT LEAST 48 HOURS PRIOR TO TAPPING MAIN.



PLAN FOR
PVC MAIN

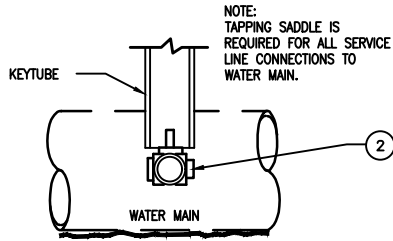
TYPICAL COPPER SERVICE 1" AND SMALLER

NO.	QTY	FITTING	JOINT	SERVICE SIZES
				3/4" text
1	1	CURB STOP	INLET-MALE THREAD (TAPERED) OUTLET-MALE THREAD	3/4" 1" 3/4" 1"
1A	1	TAP SADDLE FOR PVC	PVC FIPT	3/4" 1"
2	2	90° DEGREE BRASS BEND	MIPT AND FEMALE ADAPTOR X COMPRESSION	3/4" 1"
3	1	METER SETTER	FEMALE COMPRESSION FEMALE THREAD	3/4" 1" 3/4" 1"
3A	1	ANGLE CHECK VALVE	-	- -
3B	1	ANGLE METER STOP	-	- -
4	1	METER (RRWS PROVIDED)	MALE THREAD	3/4" 1"
5	1	VAULT 20"x36"	-	- -
6	1	FRAME AND COVER	-	- -

RIVER RIDGE
COMMERCE CENTER

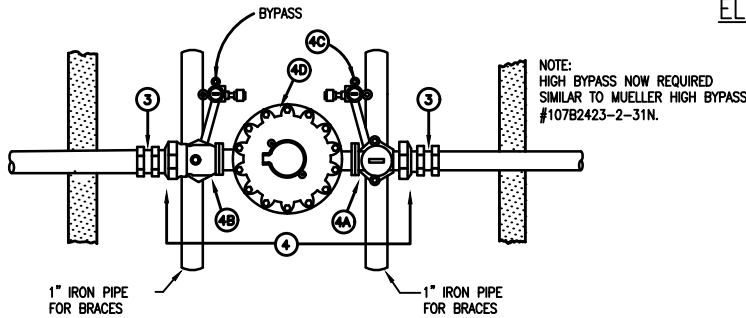
STANDARD DRAWING
TYPICAL DOMESTIC OR IRRIGATION
SERVICE 1" AND SMALLER

DATE	AUGUST 2024	SCALE	NONE
DRAWING NO.	RR1	SHEET	1 OF 1



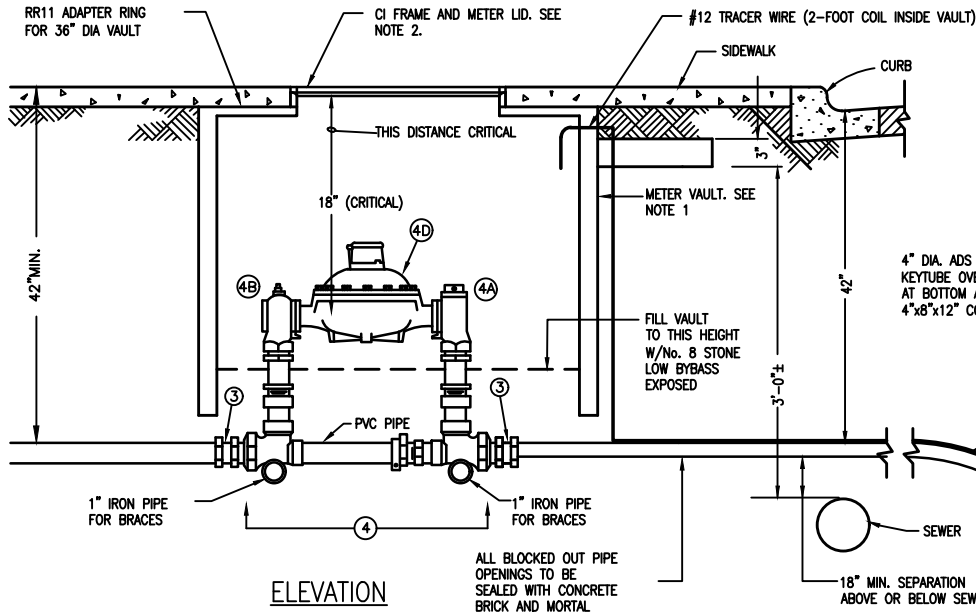
SECTION "A-A"

PLAN
(INSIDE VAULT)



TYPICAL 1-1/2" or 2" SERVICE

NO.	QTY	FITTING	JOINT	SERVICE SIZES	
1	1	TAPPING SADDLE	FIPT	1-1/2"	2"
2	1	CURB STOP(IPT)	INLET-MALE THREAD (TAPERED) OUTLET-MALE THREAD (IPT)	1-1/2"	2"
3	2	ADAPTER	FEMALE COMPRESSION MALE THREAD (IPT)	1-1/2"	2"
4	1	METER SETTER	FEMALE THREAD	1-1/2"	2"
4A	1	ANGLE METER STOP	-----	-----	---
4B	1	ANGLE CHECK VALVE	-----	-----	---
4C	1	BY-PASS (HIGH)	-----	-----	---
4D	1	METER(RRWS PROVIDED)	METER FLANGE	1-1/2"	2"



ALL BLOCKED OUT PIPE OPENINGS TO BE SEALED WITH CONCRETE BRICK AND MORTAR.

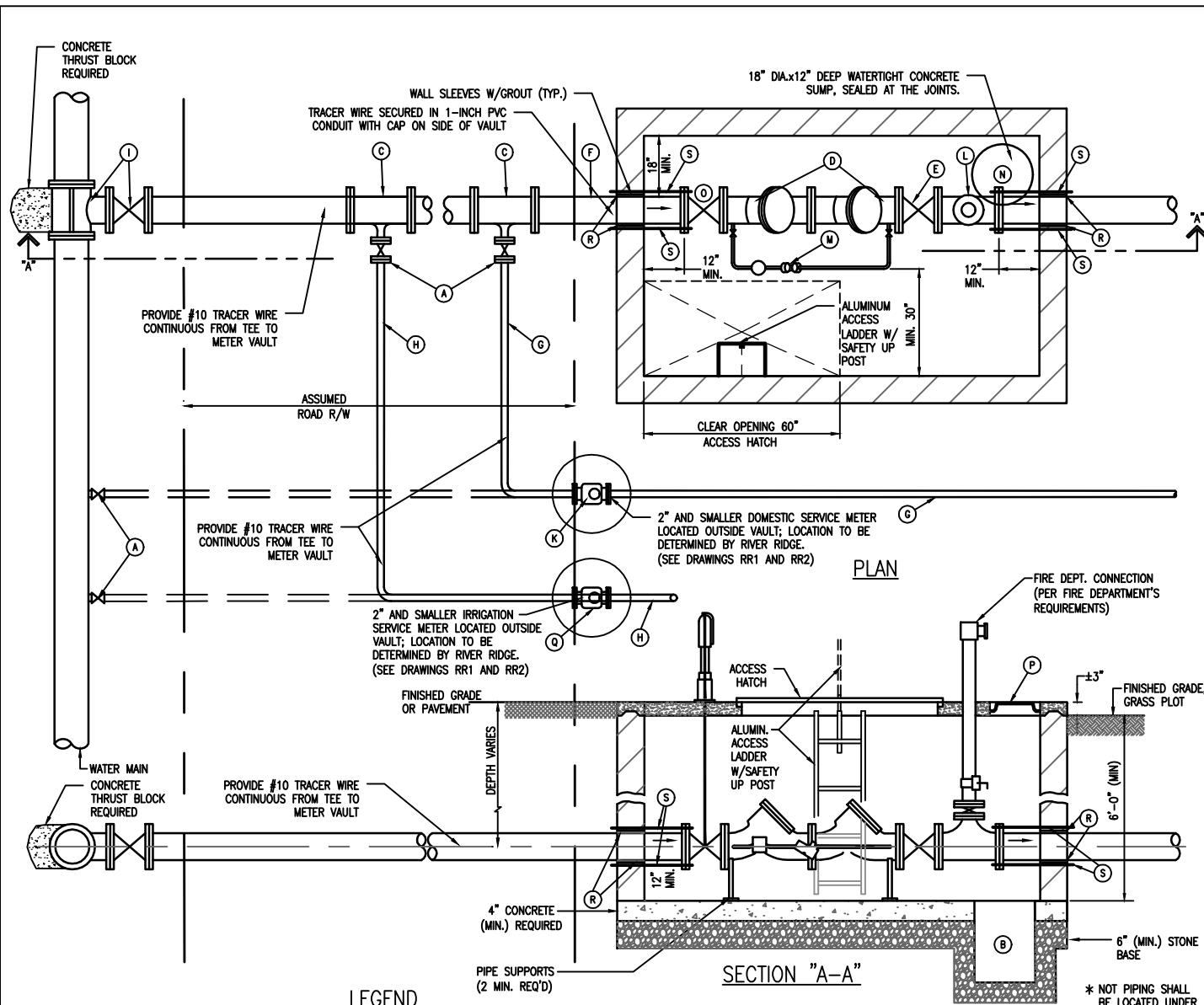
NOTES:

- UNDER DRIVING SURFACES VAULT SHALL BE 20"x36" CONCRETE, OUTSIDE OF PAVEMENT VAULT SHALL BE 36" DIA. PLASTIC.
- FOR NON-TRAFFIC AREAS, METER VAULT LID SHALL BE FORD RESIDENTIAL MODEL C4-T FRAME & LID, OR EQUAL. FOR TRAFFIC AREAS AND SIDEWALKS USE FORD RESIDENTIAL MODEL C3H-T FRAME AND LID, OR EQUAL. ALL COVERS SHALL USE LARGE PENTAGRAM BOLTS. BEVEL CONCRETE EDGES WHEN INSTALLED IN CONCRETE.
- SERVICE LINE SHALL BE PVC CTS TUBING (NSF 61 APPROVED). FOR ALL SERVICES 10 FEET AND LONGER. ALL SERVICES LESS THAN 10 FEET LONG SHALL BE SCHEDULE 80 PVC 61 APPROVED).
- POLYWRAP IS REQUIRED ON THE SERVICE LINE TO A DISTANCE OF 1-FOOT BEYOND THE CURB STOP IF STAINLESS STEEL SADDLE IS USED. SECURE THE POLYWRAP BY TAPING IT AROUND THE CURB STOP AND SADDLE.
- INSTALL #10 BLUE COATED COPPERHEAD TRACER WIRE ON ALL SERVICE LINES FROM WATER MAIN SADDLE OR TAP TO METER VAULT. SECURE TRACER WIRE TO EXISTING WATER MAIN TRACER WIRE. USE GELCAP OR EQUIVALENT WIRE CONNECTORS ON TRACER WIRE. IF THERE IS NO EXISTING TRACER WIRE ON THE WATER MAIN, SECURE THE NEW WIRE TO THE SADDLE (PVC WATER MAIN) OR TAP (DI WATER MAIN). INSTALL TRACER WIRE THROUGH WALL OF METER VAULT (4" OR LESS BELOW TOP OF WALL) AND COIL 2-FEET OF TRACER WIRE INSIDE OF METER VAULT.
- BACKFLOW PREVENTION DEVICES THAT MEET INDIANA PLUMBING CODE AND IDEM REQUIREMENTS ARE REQUIRED FOR ALL IRRIGATION, DOMESTIC, AND FIRE SERVICES. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED YEARLY BY CUSTOMER WITH RESULTS PROVIDED TO RRWS.
- BRASS FITTINGS ONLY, NO STAINLESS STEEL WITHOUT RRWS APPROVAL.
- ANTI-SEIZE COMPOUND TO BE APPLIED TO ALL STAINLESS STEEL (S.S.) BOLTS.
- COORDINATE WITH RRWS AT LEAST 48 HOURS PRIOR TO TAPPING MAIN.

RIVER RIDGE
COMMERCE CENTER

STANDARD DRAWING
TYPICAL DOMESTIC OR IRRIGATION
SERVICE 1-1/2" OR 2"
SERVICE

DATE	AUGUST 2024	SCALE	NONE
DRAWING NO.	RR2	SHEET	1 OF 1



NOTES:

- CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPURTENANCES EXCEPT AS NOTED BELOW.
- VAULT SHALL BE 6'Hx6'Wx12'L (MIN.) INSIDE DIMENSIONS. VAULT SHALL BE CMU, PRE-CAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION. VAULT SIZE SHALL BE BASED ON REQUIRED SPACING, AND SHALL BE SET LENGTHWISE WITH SERVICE.
- TOP OF VAULT SHALL BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT SHALL BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED OUTSIDE OF PAVEMENT, TOP OF VAULT SHALL BE ABOVE 3" ABOVE FINISHED GRADE.
- BOTTOM OF VAULT SHALL BE 4" (MIN.) CONCRETE SLAB OVER 6" (MIN.) OF CRUSHED STONE. A MINIMUM CLEARANCE OF 12" BETWEEN BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
- DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. STAINLESS STEEL BOLTS ARE REQUIRED. DCDA SHALL BE LOCATED INSIDE THE VAULT. DETECTOR METER IS FURNISHED BY RRWS AND INSTALLED BY CUSTOMER ON THE HINGE SIDE OF THE HATCH.
- ACCESS HATCH IN TOP OF VAULT SHALL BE HALLIDAY WIS3060 OR APPROVED EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID AND SHALL OPEN TOWARDS THE CENTER OF THE VAULT. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE.
- A SEPARATE METER PIT/VAULT SHALL BE USED FOR DOMESTIC AND IRRIGATION METERS 2" AND SMALLER. SEE RR1 AND RR2 FOR DETAILS.
- TWO PIPE SUPPORTS REQUIRED FOR EACH LINE (MIN.). AS DIRECTED BY RRWS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED FOR EACH LINE.
- SUMP LID SHALL BE 12"x12" SQUARE (MIN.) OR 12" DIAMETER (MIN.).
- THE ENTIRE BY-PASS LINE LEAK DETECTOR ASSEMBLY SHALL BE SUPPLIED AND MAINTAINED AS A CONNECTED UNIT. DO NOT DISASSEMBLE AFTER ASSEMBLY. TESTING REQUIRED WITHIN 30 DAYS AFTER INSTALL AND ANNUALLY THEREAFTER. RESULTS SHALL BE EMAILED TO WATER@RIVERRIDGECC.COM.
- SIZE ON SIZE TAPS ONLY ALLOWED WITH RRWS APPROVAL. IF SIZE ON SIZE TAP IS APPROVED, IT SHALL INCLUDE A TAP SADDLE WITH FLANGED RIDGE (VALVE FLG X M).
- BRASS FITTINGS ONLY, NO STAINLESS STEEL WITHOUT RRWS APPROVAL.
- ANTI-SEIZE COMPOUND TO BE APPLIED TO ALL STAINLESS STEEL (S.S.) BOLTS.
- COORDINATE WITH RRWS AT LEAST 48 HOURS PRIOR TO TAPPING MAIN.
- FITTINGS REQUIRED BETWEEN TAP AND METER VAULT SHALL BE SECURED WITH ALL THREAD ROD OR CONCRETE THRUST BLOCKING.
- BACKFLOW PREVENTION DEVICES THAT MEET INDIANA PLUMBING CODE AND IDEM REQUIREMENTS ARE REQUIRED FOR ALL IRRIGATION, DOMESTIC, AND FIRE SERVICES. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED YEARLY BY CUSTOMER WITH RESULTS PROVIDED TO RRWS.

RIVER RIDGE
COMMERCE CENTER

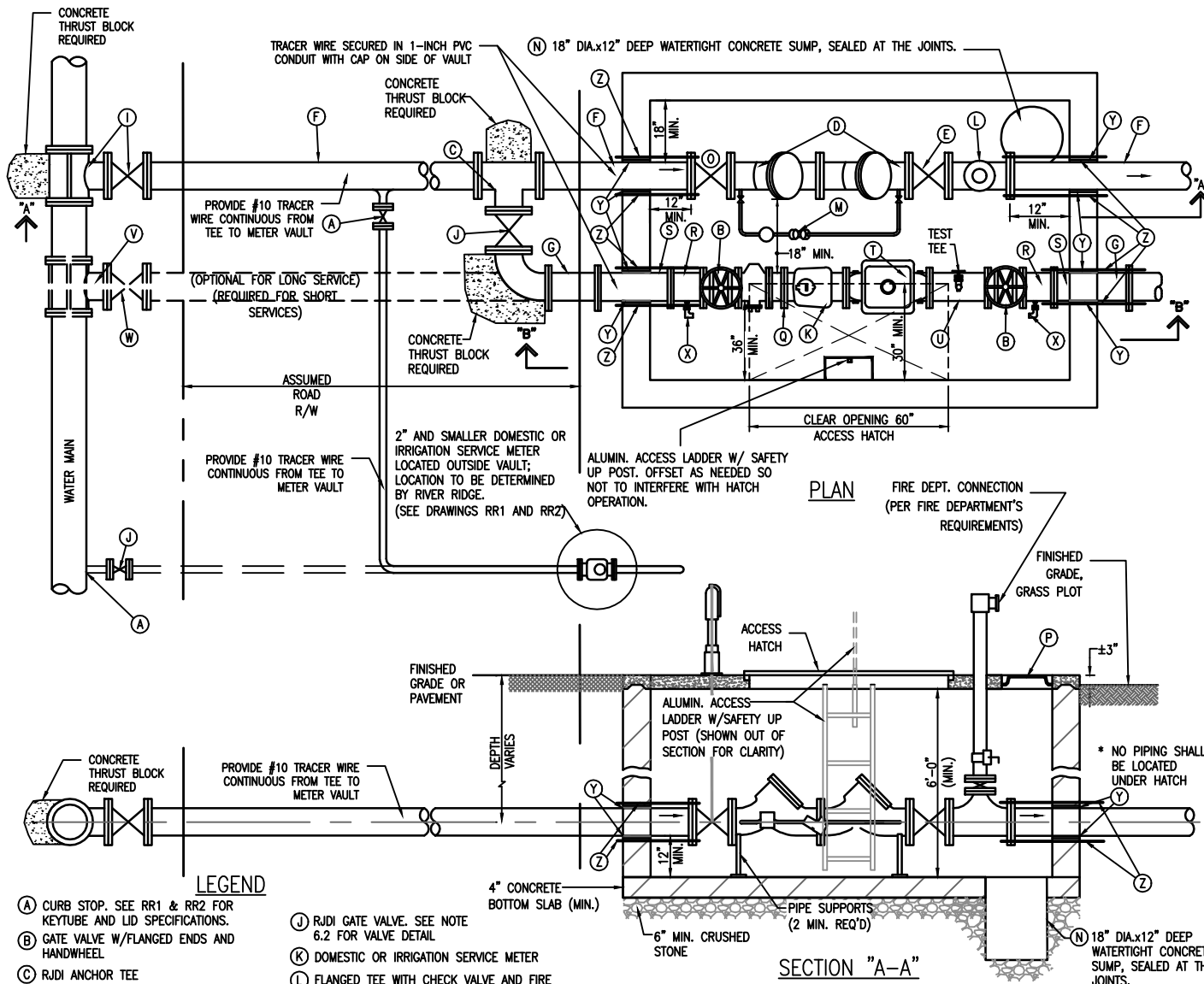
LONG SIDE VALVE VAULT

STANDARD FOR FIRE SERVICE &
2" AND SMALLER
SINGLE METER CONFIGURATIONS

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR3	SHEET	1 OF 1

NOTES:

1. CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPURTENANCES EXCEPT AS NOTED BELOW.
2. VAULT SHALL BE 6'Hx10'Wx12'L (MIN.) INSIDE DIMENSIONS. VAULT SHALL BE CMU, PRE-CAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION. VAULT SHALL BE BASED ON REQUIRED SPACING, AND SHALL BE SET LENGTHWISE W/SERVICE.
3. TOP OF VAULT SHALL BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT SHALL BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED OUTSIDE OF PAVEMENT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
4. BOTTOM OF VAULT SHALL BE 4" (MIN.) CONCRETE SLAB OVER 6" (MIN.) OF CRUSHED STONE. A MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
5. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. STAINLESS STEEL BOLTS ARE REQUIRED. DCDA SHALL BE LOCATED INSIDE THE VAULT. DETECTOR METER IS FURNISHED BY RRWS AND INSTALLED BY CUSTOMER ON THE HINGE SIDE OF HATCH.
6. ACCESS HATCH IN TOP OF VAULT SHALL BE HALLIDAY W1S3060 OR APPROVED EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID AND SHALL OPEN TOWARD THE CENTER OF THE VAULT. PIPE HATCH FRAME SHALL DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE.
7. A SEPARATE METER PIT/VAULT SHALL BE USED FOR DOMESTIC AND IRRIGATION METER 2" AND SMALLER. SEE DETAIL RR2 & RR3 FOR DETAILS.
8. A 2" TEST TEE SHALL BE INSTALLED AT LEAST 2 PIPE DIAMETERS DOWNSTREAM OF 3" OR LARGER METERS.
9. TWO PIPE SUPPORTS REQUIRED FOR EACH LINE (MIN.). AS DIRECTED BY RRWS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED FOR EACH LINE.
10. SUMP LID SHALL BE 12"x12" SQUARE (MIN.) OR 12" DIAMETER (MIN.).
11. THE ENTIRE BY-PASS LINE LEAK DETECTOR ASSEMBLY SHALL BE SUPPLIED AND MAINTAINED AS A CONNECTED UNIT. DO NOT DISASSEMBLE AFTER ASSEMBLY. TESTING REQUIRED WITHIN 30 DAYS AFTER INSTALL AND ANNUALLY THEREAFTER. RESULTS SHALL BE EMAILED TO WATER@RIVERRIDGECC.COM.
12. BACKFLOW PREVENTER TESTING FOR FIRE, DOMESTIC, AND IRRIGATION SERVICES MUST OCCUR WITHIN 30 DAYS OF INSTALL.
13. SIZE ON SIZE TAPS ONLY ALLOWED WITH RRWS APPROVAL. IF SIZE ON SIZE TAP IS APPROVED, IT SHALL INCLUDE A TAP SADDLE WITH FLANGED RIDGE (VALVE FLG X MJ).
14. BRASS FITTINGS ONLY, NO STAINLESS STEEL WITHOUT RRWS APPROVAL.
15. ANTI-SEIZE COMPOUND TO BE APPLIED TO ALL STAINLESS STEEL (S.S.) BOLTS.
16. COORDINATE WITH RRWS AT LEAST 48 HOURS PRIOR TO TAPPING MAIN.



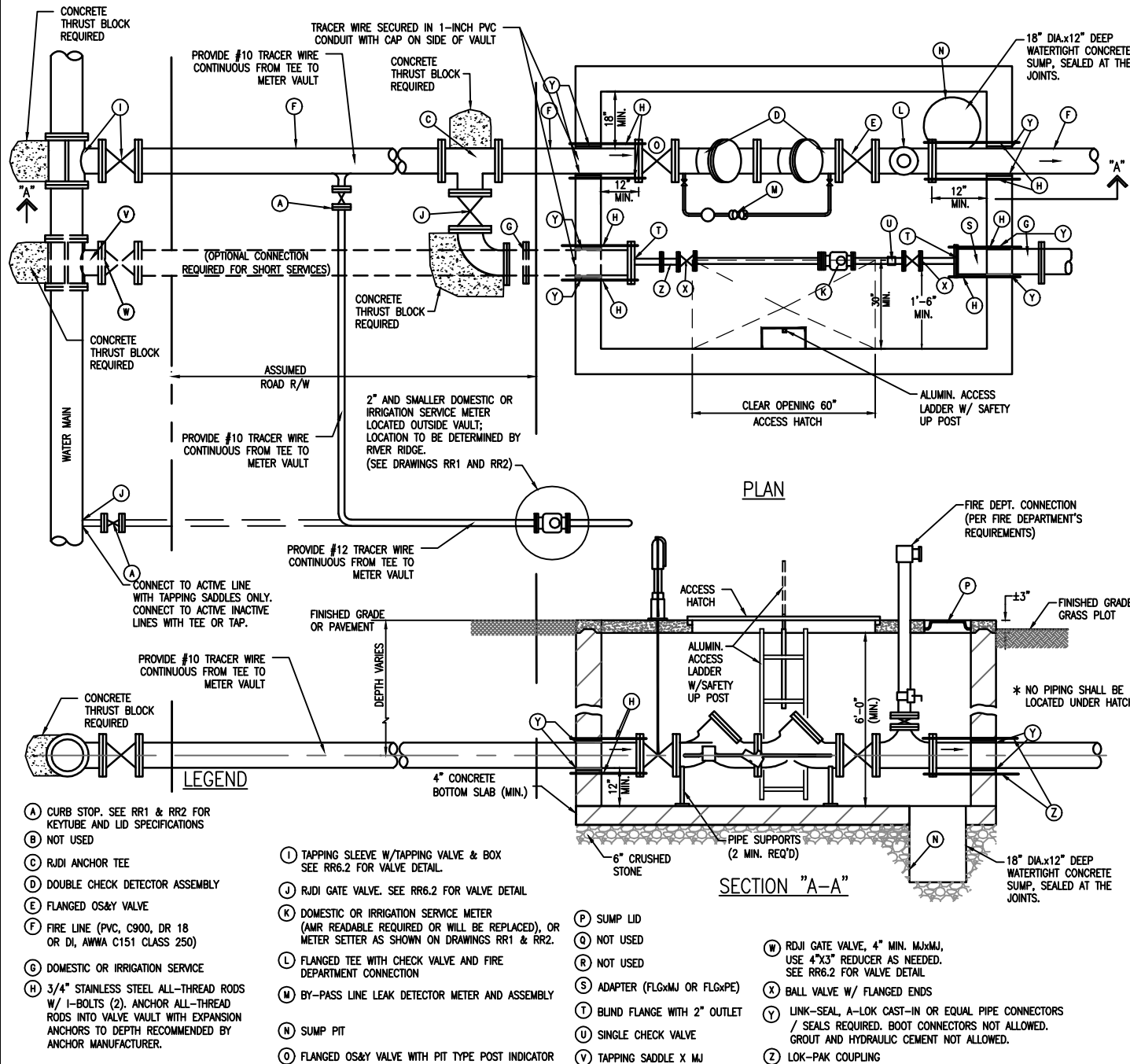
SECTION "A-A"

RIVER RIDGE COMMERCE CENTER

SHORT & LONG SIDE VALVE VAULT

STANDARD COMBINED FIRE SERVICE METER VAULT WITH 3" AND LARGER DOMESTIC OR IRRIGATION METER CONFIGURATION

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR4.1	SHEET	1 OF 3



NOTES:

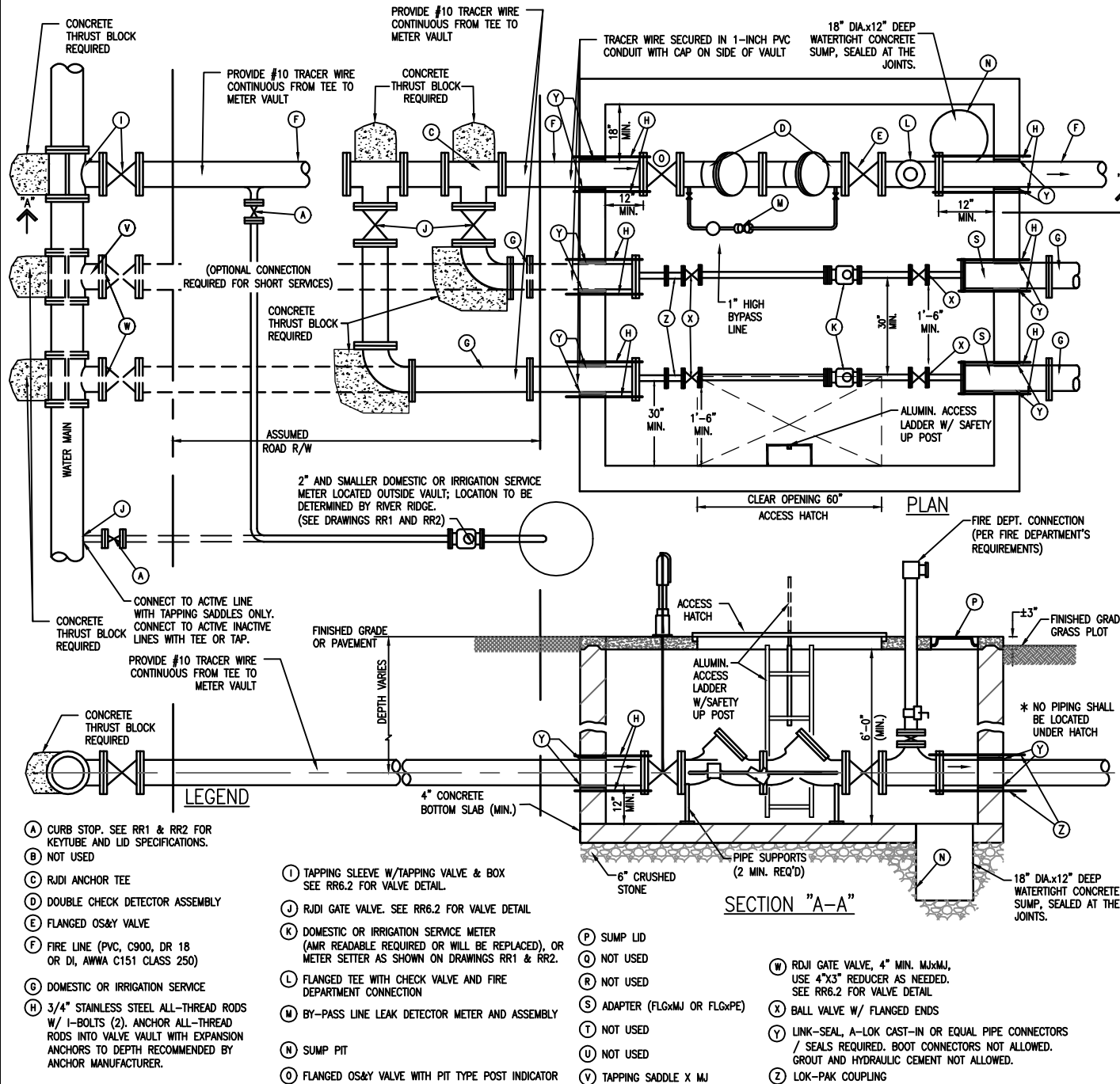
- CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPURTENANCES EXCEPT AS NOTED BELOW.
- VAULT SHALL BE 6'Hx10'Wx12'L (MIN.) INSIDE DIMENSIONS. VAULT SHALL BE CMU, PRE-CAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION. VAULT TO BE BASED ON REQUIRED SPACING, AND SHALL BE SET LENGTHWISE W/SERVICE.
- TOP OF VAULT SHALL BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT SHALL BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED OUTSIDE OF PAVEMENT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
- BOTTOM OF VAULT SHALL BE 4" (MIN.) CONCRETE SLAB OVER 6" (MIN.) OF CRUSHED STONE. A MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
- DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. STAINLESS STEEL BOLTS ARE REQUIRED. DCDA SHALL BE LOCATED INSIDE THE VAULT. DETECTOR METER IS FURNISHED BY RRWS AND INSTALLED BY CUSTOMER ON THE HINGE SIDE OF HATCH.
- ACCESS HATCH IN TOP OF VAULT SHALL BE HALLIDAY W1S3060 OR APPROVED EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID AND SHALL OPEN TOWARDS THE CENTER OF THE VAULT. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE.
- A SEPARATE METER PIT/VAULT IS REQUIRED FOR EACH DOMESTIC AND IRRIGATION METER 2" AND SMALLER. SEE RR1 & RR2 FOR DETAIL.
- TWO PIPE SUPPORTS REQUIRED FOR EACH LINE (MIN.). AS DIRECTED BY RRWS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED FOR EACH LINE.
- SUMP LID TO BE 12"x12" SQUARE (MIN.) OR 12" DIAMETER (MIN.).
- THE ENTIRE BY-PASS LINE LEAK DETECTOR ASSEMBLY SHALL BE SUPPLIED AND MAINTAINED AS A CONNECTED UNIT. DO NOT DISASSEMBLE AFTER ASSEMBLY. TESTING REQUIRED WITHIN 30 DAYS AFTER INSTALL AND ANNUALLY THEREAFTER. RESULTS SHALL BE EMAILED TO WATER@RIVERRIDGECC.COM.
- SIZE ON SIZE TAPS ONLY ALLOWED WITH RRWS APPROVAL. IF SIZE ON SIZE TAP IS APPROVED BY RRWS IT SHALL INCLUDE A TAP SADDLE WITH FLANGED RIDGE (VALVE FLG X MJ).
- BACKFLOW PREVENTER TESTING FOR FIRE, DOMESTIC, AND IRRIGATION SERVICES MUST OCCUR WITHIN 30 DAYS OF INSTALL.
- BRASS FITTINGS ONLY, NO STAINLESS STEEL WITHOUT RRWS APPROVAL.
- ANTI-SEIZE COMPOUND TO BE APPLIED TO ALL STAINLESS STEEL (S.S.) BOLTS.
- COORDINATE WITH RRWS AT LEAST 48 HOURS PRIOR TO TAPPING MAIN.

RIVER RIDGE COMMERCE CENTER

SHORT & LONG SIDE VALVE VAULT

STANDARD FOR COMBINED FIRE SERVICE &
METER VAULT FOR SINGLE METER CONFIGURATION
FOR 3" OR 4" SERVICE WITH 2" METER

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR5.1	SELECT	1 OF 2



NOTES:

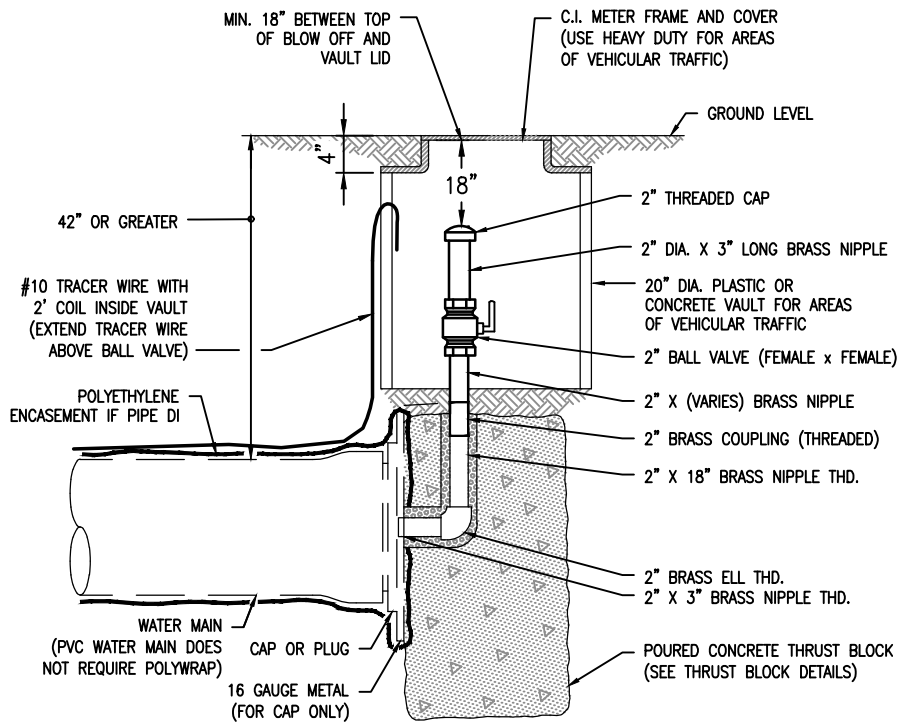
- CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPURTENANCES EXCEPT AS NOTED BELOW.
- VAULT SHALL BE 6'Hx12'Wx12'L (MIN.) INSIDE DIMENSIONS. VAULT SHALL BE CMU, PRE-CAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION. VAULT TO BE BASED ON REQUIRED SPACING, AND SHALL BE SET LENGTHWISE W/SERVICE.
- TOP OF VAULT SHALL BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT SHALL BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED OUTSIDE OF PAVEMENT TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
- BOTTOM OF VAULT SHALL BE 4" (MIN.) CONCRETE SLAB OVER 6" (MIN.) OF CRUSHED STONE. A MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
- DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. STAINLESS STEEL BOLTS ARE REQUIRED. DCDA SHALL BE LOCATED INSIDE THE VAULT. DETECTOR METER IS FURNISHED BY RRWS AND INSTALLED BY CUSTOMER ON THE HINGE SIDE OF HATCH.
- ACCESS HATCH IN TOP OF VAULT SHALL BE HALLIDAY W1S3060 OR APPROVED EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID AND SHALL OPEN TOWARDS THE CENTER OF THE VAULT. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE.
- A SEPARATE METER PIT/VAULT IS REQUIRED FOR EACH DOMESTIC AND IRRIGATION METER 2" AND SMALLER. SEE RR1 & RR2 FOR DETAIL.
- TWO PIPE SUPPORTS REQUIRED FOR EACH LINE (MIN.), AS DIRECTED BY RRWS. ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED FOR EACH LINE.
- SUMP LID TO BE 12"x12" SQUARE (MIN.) OR 12" DIAMETER (MIN.).
- THE ENTIRE BY-PASS LINE LEAK DETECTOR ASSEMBLY SHALL BE SUPPLIED AND MAINTAINED AS A CONNECTED UNIT. DO NOT DISASSEMBLE AFTER ASSEMBLY. TESTING REQUIRED WITHIN 30 DAYS AFTER INSTALL AND ANNUALLY THEREAFTER. RESULTS SHALL BE EMAILED TO WATER@RIVERRIDGECC.COM.
- SIZE ON SIZE TAPS ONLY ALLOWED WITH RRWS APPROVAL. IF SIZE ON SIZE TAP IS APPROVED BY RRWS IT SHALL INCLUDE A TAP SADDLE WITH FLANGED RIDGE (VALVE FLG X MJ).
- BACKFLOW PREVENTER TESTING FOR FIRE, DOMESTIC, AND IRRIGATION SERVICES MUST OCCUR WITHIN 30 DAYS OF INSTALL.
- BRASS FITTINGS ONLY, NO STAINLESS STEEL WITHOUT RRWS APPROVAL.
- ANTI-SEIZE COMPOUND TO BE APPLIED TO ALL STAINLESS STEEL (S.S.) BOLTS.
- COORDINATE WITH RRWS AT LEAST 48 HOURS PRIOR TO TAPPING MAIN.

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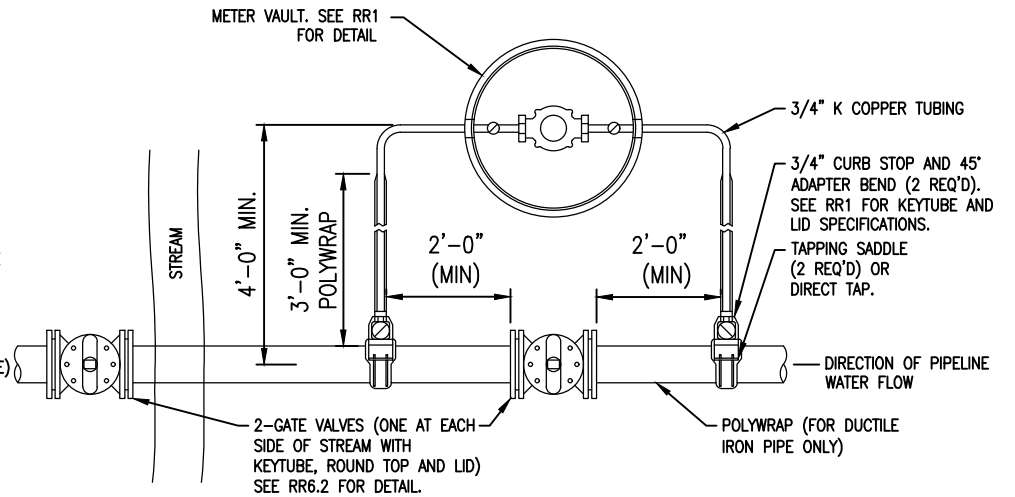
SHORT & LONG SIDE VALVE VAULT

STANDARD FOR COMBINED FIRE SERVICE & METER VAULT FOR SINGLE METER CONFIGURATION FOR 3" OR 4" SERVICE WITH 2" METER (ONLY WITH RRDA APPROVAL)

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR5.2	SHEET	2 OF 2



1 BLOW OFF ASSEMBLY
NOT TO SCALE

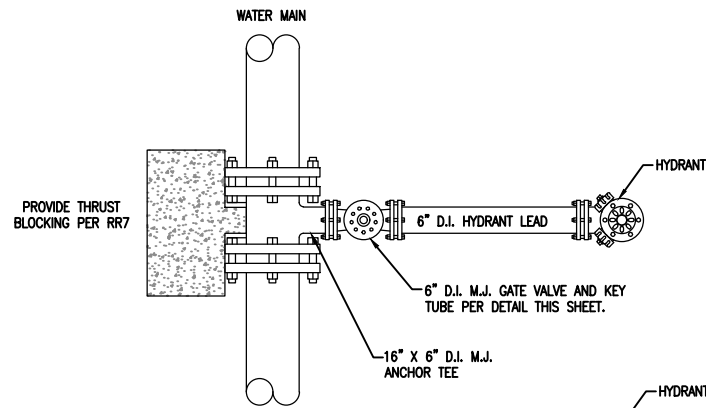


2 LEAK DETECTION BY-PASS METER FOR UNDERWATER CROSSINGS
NO SCALE

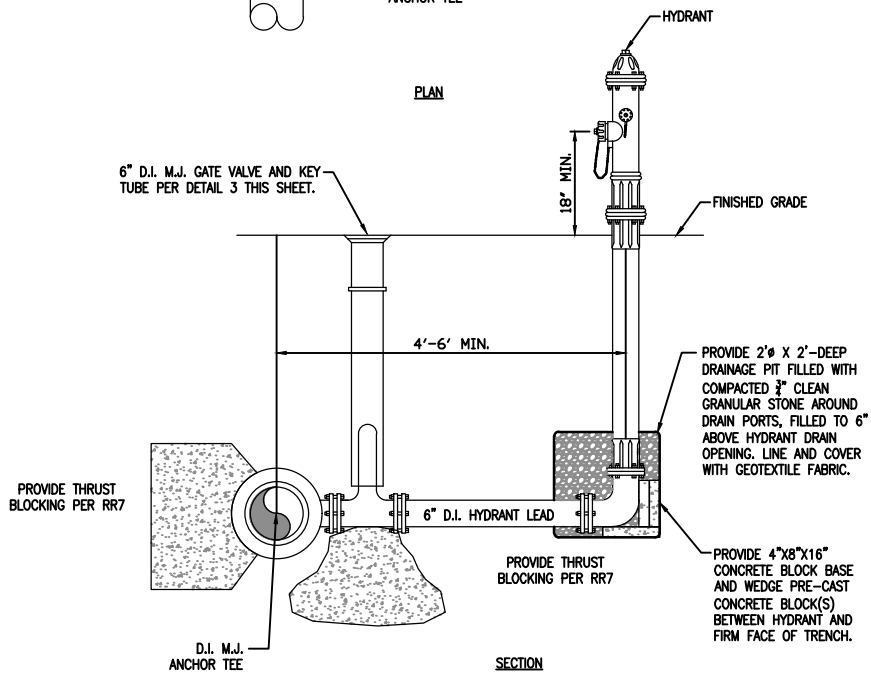
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MISCELLANEOUS WATER DETAILS

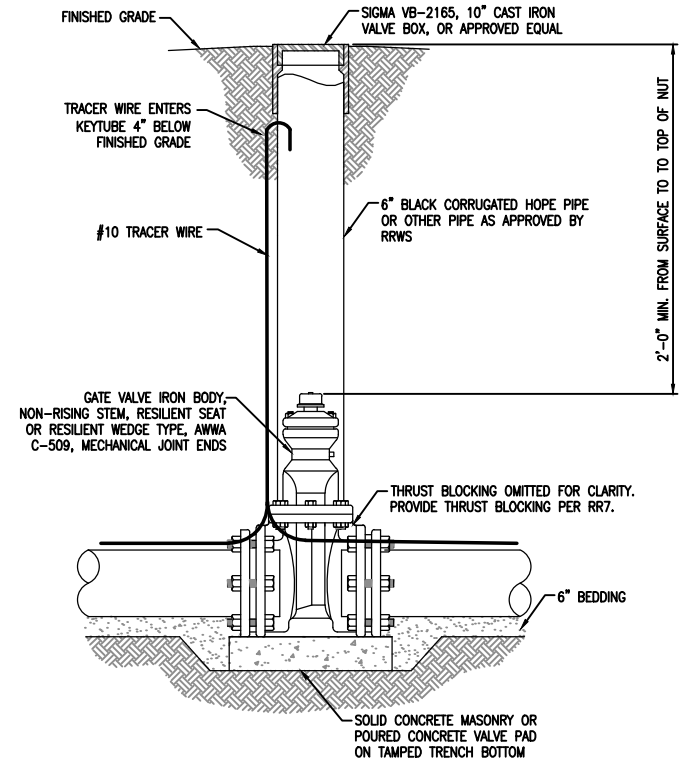
DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR6.1	SHEET	1 OF 2



PLAN



3 TYPICAL HYDRANT ASSEMBLY
NO SCALE

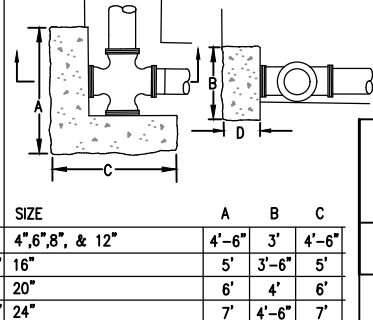
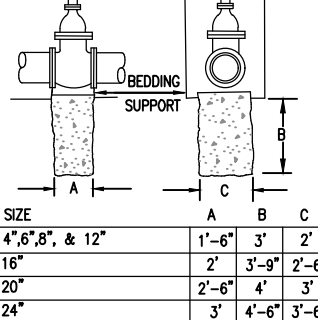
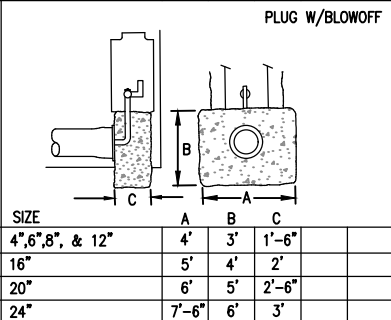
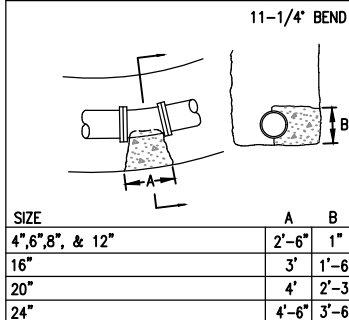
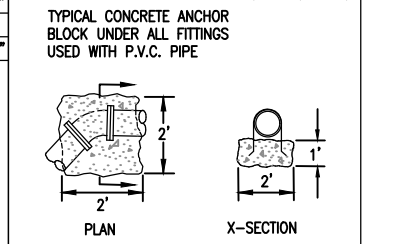
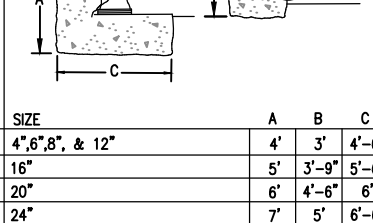
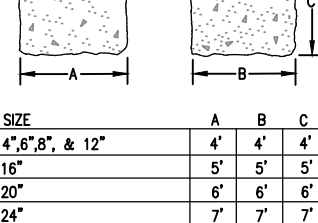
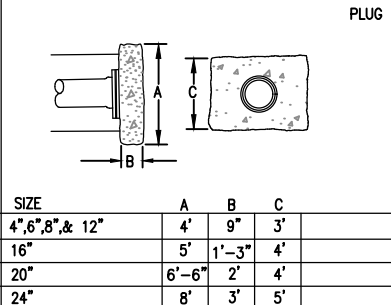
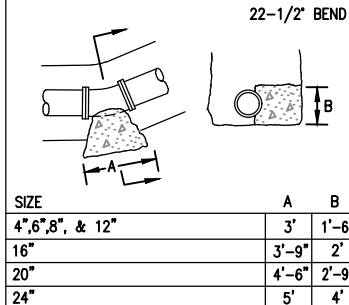
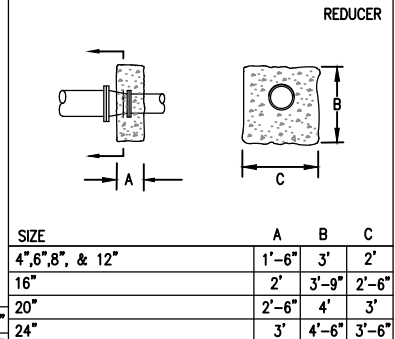
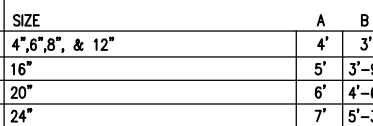
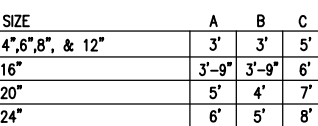
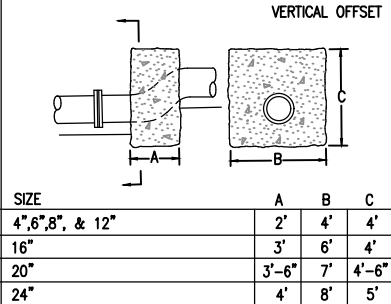
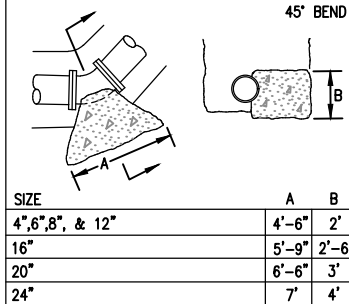
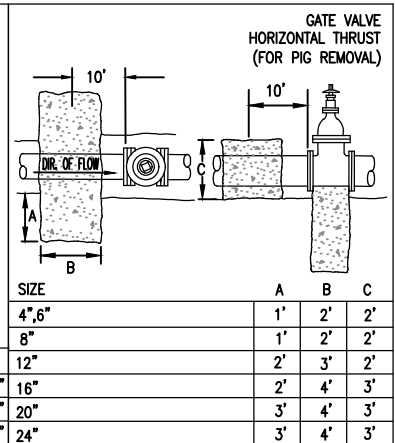
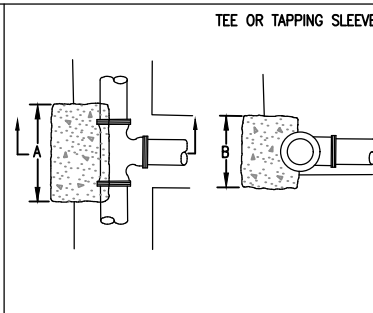
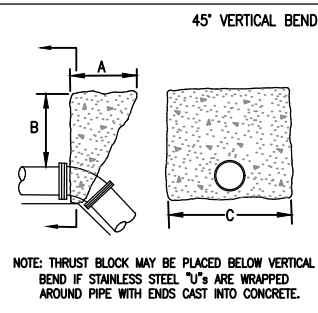
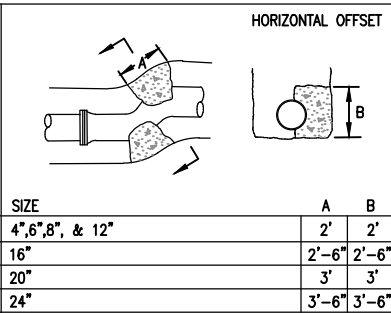
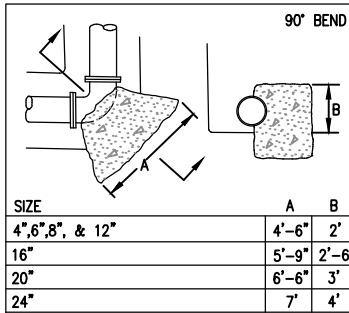


4 TYPICAL GATE VALVE WITH BOX
NOT TO SCALE

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MISCELLANEOUS WATER DETAILS

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR6.2	SHEET	2 OF 2



- NOTE:**
- ALL DUCTILE AND GRAY IRON PIPE AND APPURTENANCES SHALL BE DOUBLE POLYWRAPPED.
 - CARE SHALL BE TAKEN TO AVOID DAMAGING POLYWRAP. ANY DAMAGED OR TORN POLYETHYLENE WRAP MUST BE REPAIRED WITH POLYETHYLENE TAPE AND ADDITIONAL POLYETHYLENE WRAP IF NECESSARY TO PROVIDE TWO (2) LAYERS OF PROTECTION.

- CONCRETE THRUST BLOCKS MUST BE ALLOWED TO CURE, OR BE PROTECTED AS APPROVED BY THE ENGINEER, BEFORE BACKFILLING.
- ALL CONCRETE SHALL BE 3,500 PSI FROM A COMMERCIAL PLANT, OR SHALL BE AN ON-SITE MIXTURE PREVIOUSLY APPROVED BY THE ENGINEER.
- ALL FITTINGS INVOLVED WITH PVC PIPE SHALL HAVE A CONCRETE SUPPORT BLOCK, IN ADDITION TO THE PERTINENT THRUST BLOCK.

- SIZING OF THRUST BLOCKS ASSUMES AN ALLOWABLE SOIL BEARING CAPACITY OF 3,000 PSF.
- CONCRETE FOR THRUST BLOCKS MUST EXTEND TO AND BE PLACED AGAINST UNDISTURBED EARTH UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- 2'x2'x3' OR 2'x2'x6' PRECAST CONCRETE BLOCKS MAY BE USED IN SOME INSTANCES IF APPROVED BY RRDA.

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THRUST BLOCK DETAILS

DATE	AUGUST 2024	SCALE	NOT TO SCALE
DRAWING NO.	RR7	SHEET	1 OF 1