

# **Appendix**

## Standard Details

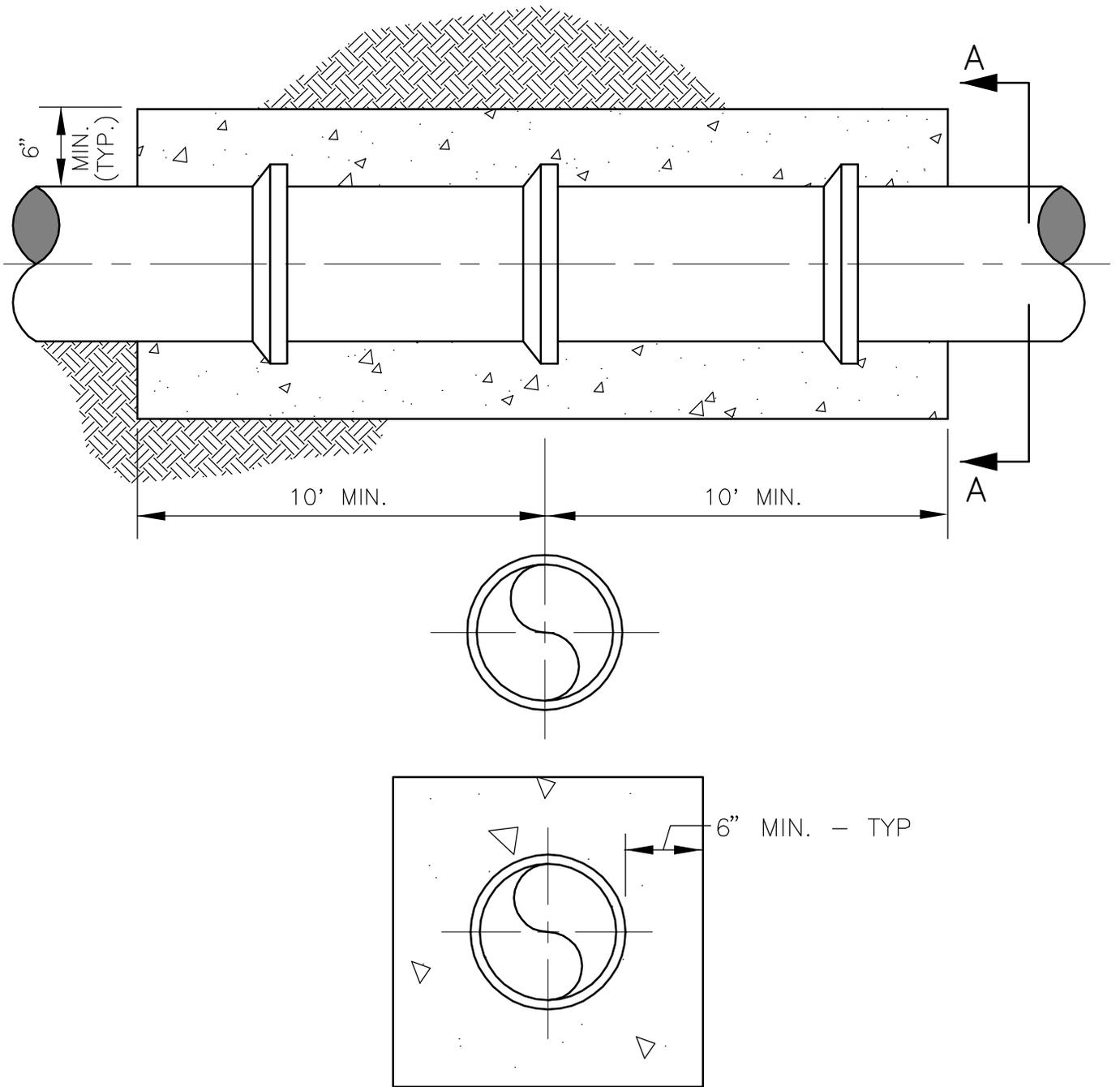
- G-1 Pipe Encasement Detail
- G-2 Trench Detail
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- W-2 Water Service Installation, Multi-Family or Commercial Development
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## Exhibits

- A Equivalent Single Family Unit Assessment Schedule
- B Fee Schedule
- C Application for Water and Wastewater Service
- D Service Area Definition
  - D.1 Vicinity Map
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- E Application for Water and Sewer Main Plan Review
- F Certification of Substantial Completion
- G Certification of Final Completion
- H District Equipment & Personnel Charges
- I Preconstruction Meeting Agenda
- J Progress Meeting Agenda

## Standard Details

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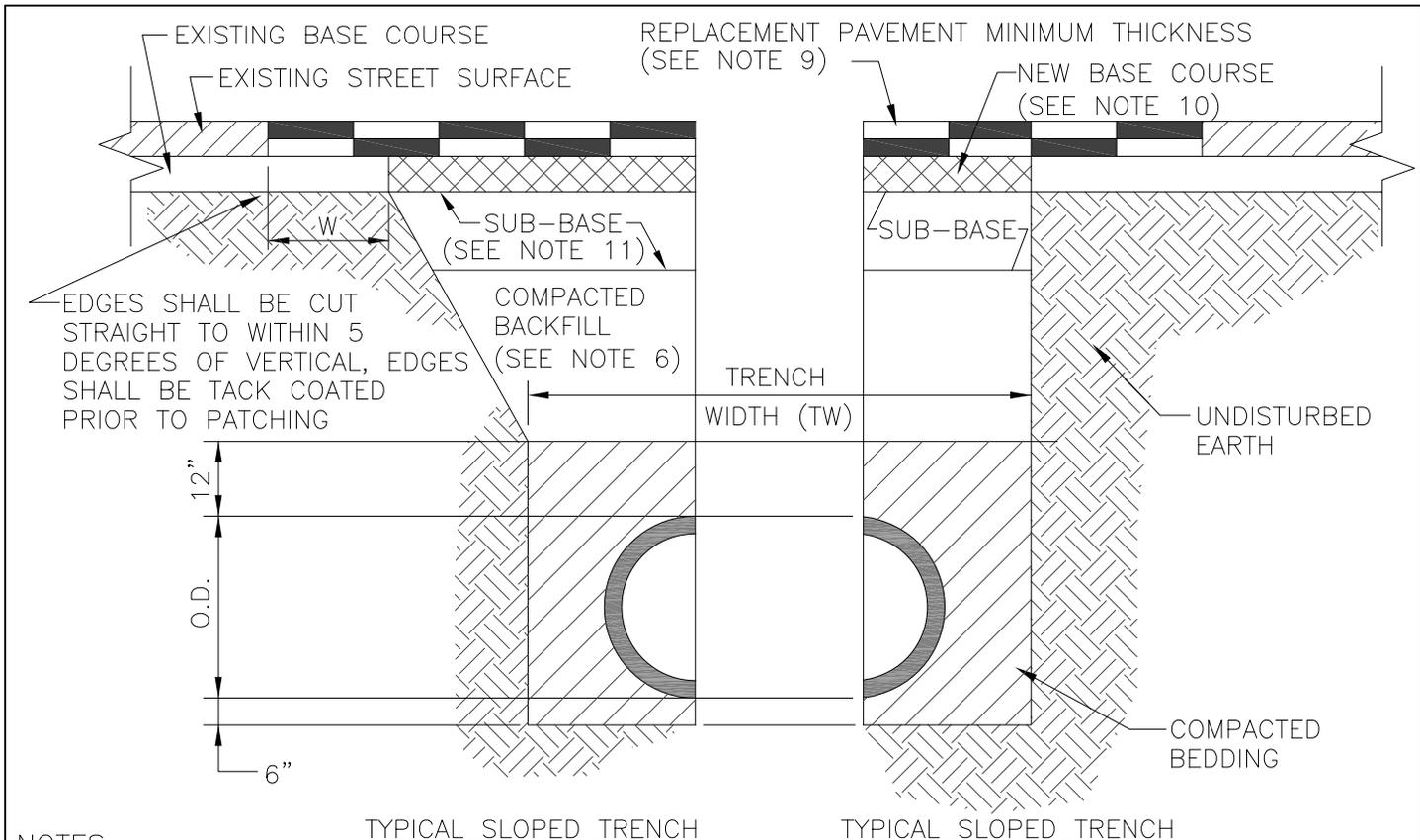


**NOTES:**

**SECTION A-A**

1. CONCRETE ENCASUREMENT WILL BE REQUIRED ON SEWER LINE WHEN CLEAR VERTICAL DISTANCE FROM WATER LINE IS LESS THAN 1'-6" OR HORIZONTAL DISTANCE IS LESS THAN 10' BETWEEN WATER AND SEWER PIPELINES. CONCRETE ENCASUREMENT REQUIRED IN ALL CASES WHERE SEWER LINE IS ABOVE WATER LINE OR IS UNDER A WATERWAY CROSSING. CONCRETE MUST BE FORMED. CONCRETE POURED DIRECTLY INTO TRENCH WITHOUT FORMS WILL NOT BE PERMITTED.
2. CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000psi AFTER 28 DAYS. CONCRETE MUST BE COMPLETELY BATCHED BEFORE PLACING CONCRETE.
3. CONCRETE ENCASUREMENT MUST MEET MINIMUM CONCRETE CURE TIMES BEFORE BACKFILL AND PRESSURIZATION OF THE PIPE. SEE WATER MAIN SPECIFICATION FOR DETAILED REQUIREMENTS.
4. AN ALTERNATIVE TO FULL ENCASUREMENT OF THE SEWER IS TO USE C-900 PVC PIPE FOR THE SEWER PIPE AND ENCASE THE PIPE JOINTS IN 6 INCHES OF CONCRETE FOR TWO FEET EITHER SIDE OF THE JOINT. ALL JOINTS WITHIN 12 FEET OF THE CROSSING SHALL BE ENCASED.
5. SEWER PIPE AND ENCASUREMENT MUST ONLY BE INSTALLED UNDER DRY TRENCH CONDITIONS AS APPROVED BY DISTRICT.

WINTER PARK WATER AND SANITATION DISTRICT	
<b>PIPE ENCASUREMENT DETAIL</b>	
DATE: 2/23/2009	<b>G-1</b>



TYPICAL SLOPED TRENCH

TYPICAL SLOPED TRENCH

NOTES

1. THIS TRENCH PATCHING DETAIL SPECIFIES REQUIREMENTS IN ADDITION TO THOSE SPECIFIED IN THE LATEST EDITION OF THE C.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WHICH ALSO APPLIES.
2. A CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS IN THE TOWN RIGHT-OF-WAY.
3. TRENCH SHALL BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND PROTECTION OF OTHER UTILITIES OR STRUCTURES IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS.
4. THE TRENCH WIDTH SHALL BE CONFINED TO THOSE MINIMUM DIMENSIONS, WHICH WILL PERMIT PROPER INSTALLATION AND ACCEPTABLE PIPE LOADING, AS ESTABLISHED BY CURRENT ACCEPTABLE ENGINEERING PRACTICES.
5. EXISTING ASPHALT OR PAVEMENT SHALL BE CUT BACK TO MINIMUM OF W (SEE ABOVE) BEYOND THE TRENCH LIMITS OR TO SOUND PAVEMENT, WHICHEVER IS GREATER.
6. BACKFILL COMPACTION REQUIREMENTS: MINIMUM DENSITY WILL BE DETERMINED IN ACCORDANCE WITH AASHTO DESIGNATION T-99 OR T180 AS DEFINED BY C.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. FULL DEPTH ASPHALT CAN BE USED AS AN ALTERNATIVE TO BASE COURSE. A RATIO OF 3 INCHES BASE COURSE TO 1 INCH OF ASPHALT SHALL BE USED IN THE SUBSTITUTION.
8. A TEMPORARY COLD-MIX ASPHALT PATCH, 4" IN DEPTH, WILL BE REQUIRED FOR ALL STREETS CUTS IF A PERMANENT HOT-MIX ASPHALT PATCH CANNOT BE APPLIED FOR ANY REASON, AFTER CONSTRUCTION IS COMPLETED.
9. HOT MIX ASPHALT CONCRETE: GRADING SX. MATCH EXISTING PAVEMENT OR 3" THICKNESS WHICHEVER IS GREATER.
10. GRAVEL ROAD SURFACE: A MINIMUM OF 6" CLASS C AGGREGATE BASE COURSE MEETING C.D.O.T. STANDARDS.
11. BASE COURSE MATERIAL SHALL BE C.D.O.T. CLASS C MATERIAL.
12. SUB BASE MATERIAL SHALL BE TO C.D.O.T. CLASS 1 OR CLASS 2 MATERIAL. NO MATERIALS LARGER THAN 2-1/2" ARE PERMITTED IN THE SUBBASE ZONE.
13. ALL TRENCH BACKFILL, COMPACTION AND RESURFACING SHALL BE IN ACCORDANCE WITH WINTER PARK STANDARDS.
14. PIPE BEDDING AND BACKFILL MATERIAL SHALL BE PER THESE RULES AND REGULATIONS.

TW	W
LESS THAN 12"	6"
12"-24"	9"
OVER 24"	12"

WINTER PARK WATER AND SANITATION DISTRICT

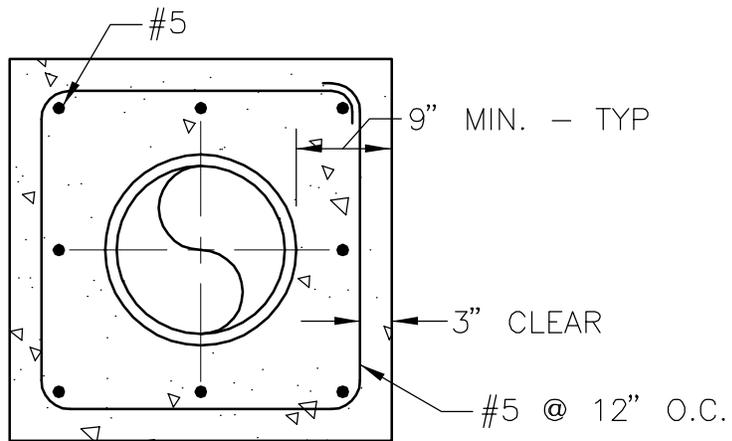
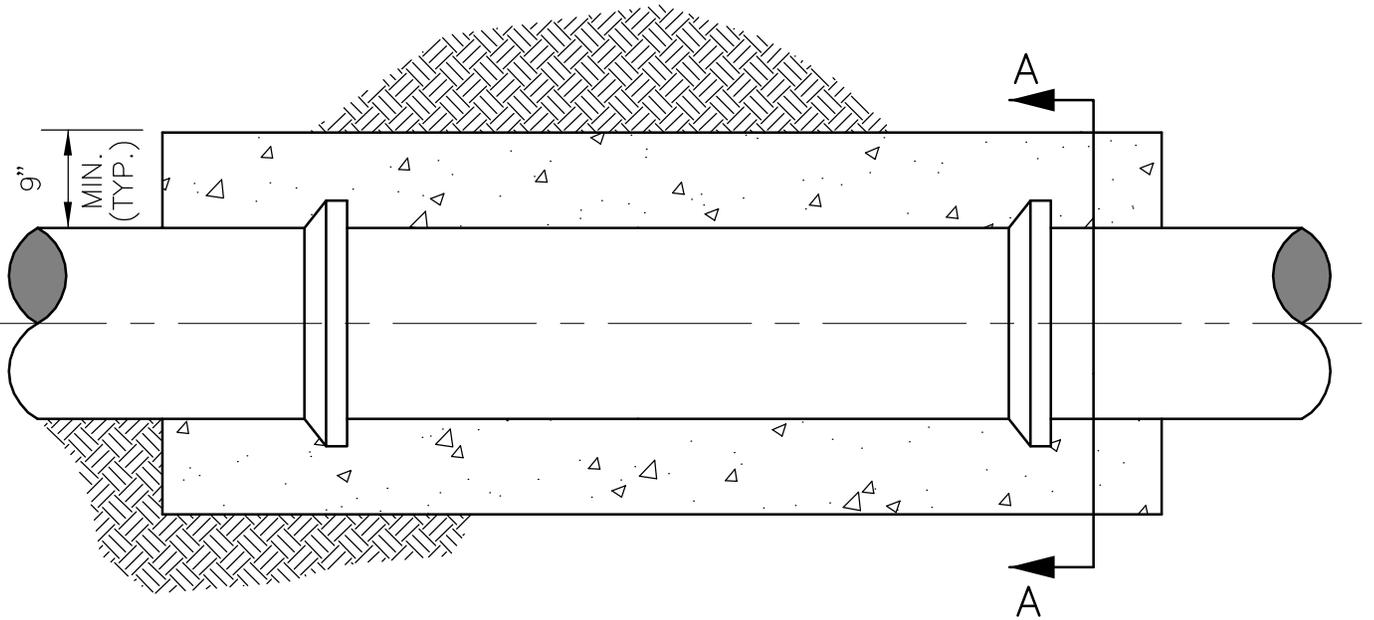
TRENCH DETAIL

DATE: 5/6/2015

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SECTION A-A

**NOTES:**

1. REINFORCED CONCRETE PIPE ENCASEMENT WHERE REQUIRED BY THE DISTRICT SHALL MEET THE MINIMUM REQUIREMENTS AS DESCRIBED IN THIS DETAIL.
2. CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000psi AFTER 28 DAYS. CONCRETE MUST BE COMPLETELY BATCHED BEFORE PLACING CONCRETE.
3. CONCRETE ENCASEMENT MUST MEET MINIMUM CONCRETE CURE TIMES BEFORE BACKFILL AND PRESSURIZATION OF THE PIPE. SEE WATER MAIN SPECIFICATION FOR DETAILED REQUIREMENTS.
4. PIPE AND ENCASEMENT MUST ONLY BE INSTALLED UNDER DRY TRENCH CONDITIONS AS APPROVED BY DISTRICT.

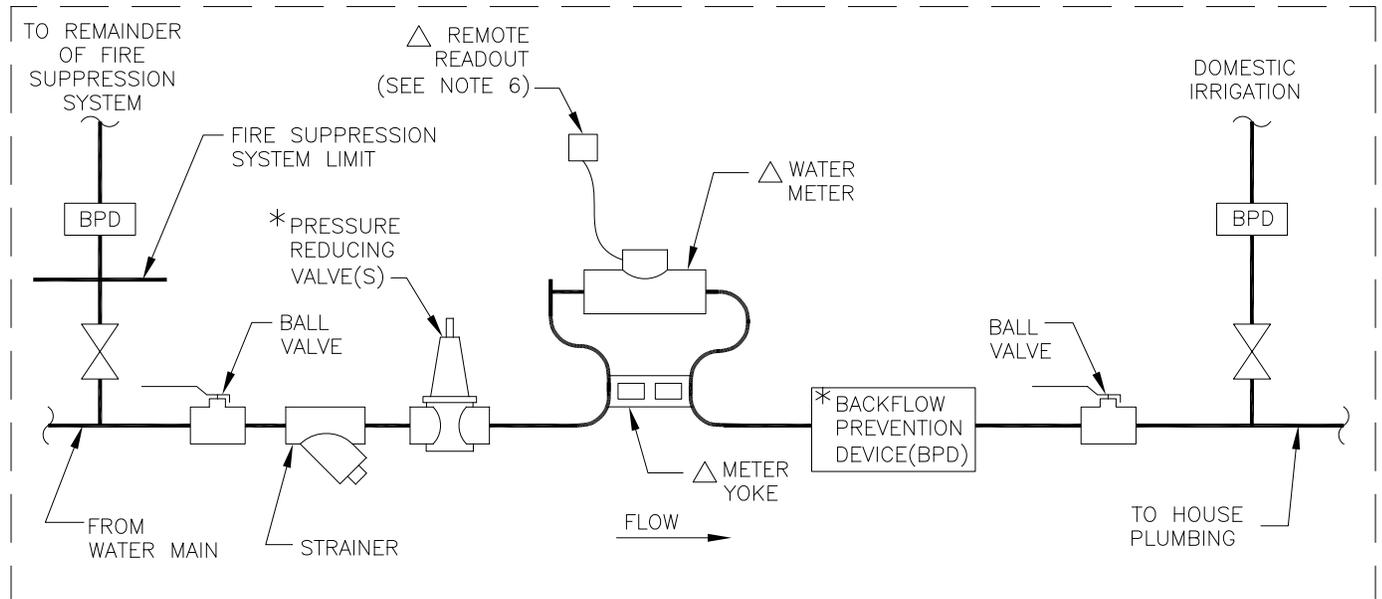
WINTER PARK WATER AND  
SANITATION DISTRICT

REINFORCED  
PIPE ENCASEMENT DETAIL

DATE: 2/23/2009

G-3

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\* EQUIPMENT FURNISHED BY DISTRICT;  
OWNED AND MAINTAINED BY PROPERTY OWNER.

Δ EQUIPMENT FURNISHED, OWNED AND  
MAINTAINED BY DISTRICT.

### NOTES

1. VALVES SHALL BE FULL-PORT VALVES.
2. LOCATION OF WATER METER SERVICE EQUIPMENT AND REMOTE READOUT SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
3. WATER SERVICE EQUIPMENT SHALL BE LOCATED IN A HEATED SPACE, WITH REASONABLE SPACE FOR SERVICE OF EQUIPMENT.
4. METER SHALL BE SET IN METER YOKE. CONTRACTOR SHALL COORDINATE WITH DISTRICT SO DISTRICT CAN FURNISH THE PROPER METER YOKE FOR THE INSTALLATION.
5. METER MUST BE MOUNTED WITH REGISTER UPRIGHT AND METER HORIZONTAL, AND IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
6. REMOTE READOUT LOCATION MUST BE APPROVED BY THE DISTRICT STAFF PRIOR TO INSTALLATION. LOCATION OF REMOTE READOUT SHALL BE VISIBLE FROM THE STREET AND SHALL BE ACCESSIBLE YEAR-ROUND. REMOTE READOUT SHALL NOT BE LOCATED UNDER EAVE WHERE SNOW OR ICE CAN INTERFERE WITH EQUIPMENT OPERATION OR WOULD LIMIT ACCESS.
7. BACKFLOW PREVENTION DEVICE MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
8. TYPE OF BACKFLOW PREVENTION DEVICE WILL BE DETERMINED BY THE DISTRICT BASED ON THE THE BACKFLOW PREVENTION NEED. IF A REDUCED PRESSURE PRINCIPAL TYPE DEVICE IS REQUIRED, IT MUST BE LOCATED WHERE THE DEVICE CAN BE PLUMBED TO A DRAIN.
9. SOME INSTALLATIONS MAY REQUIRE TWO PRESSURE REDUCING VALVES IN SERIES.
10. IF WATER SERVICE LOCATION IS IN CRAWL SPACE, EQUIPMENT SHALL BE LOCATED WITHIN 3 FEET OF THE CRAWL SPACE ENTRANCE.
11. BACKFLOW PREVENTION DEVICES MUST BE INSPECTED AND TESTED BY CERTIFIED SERVICE PERSONNEL ANNUALLY AT OWNERS EXPENSE.

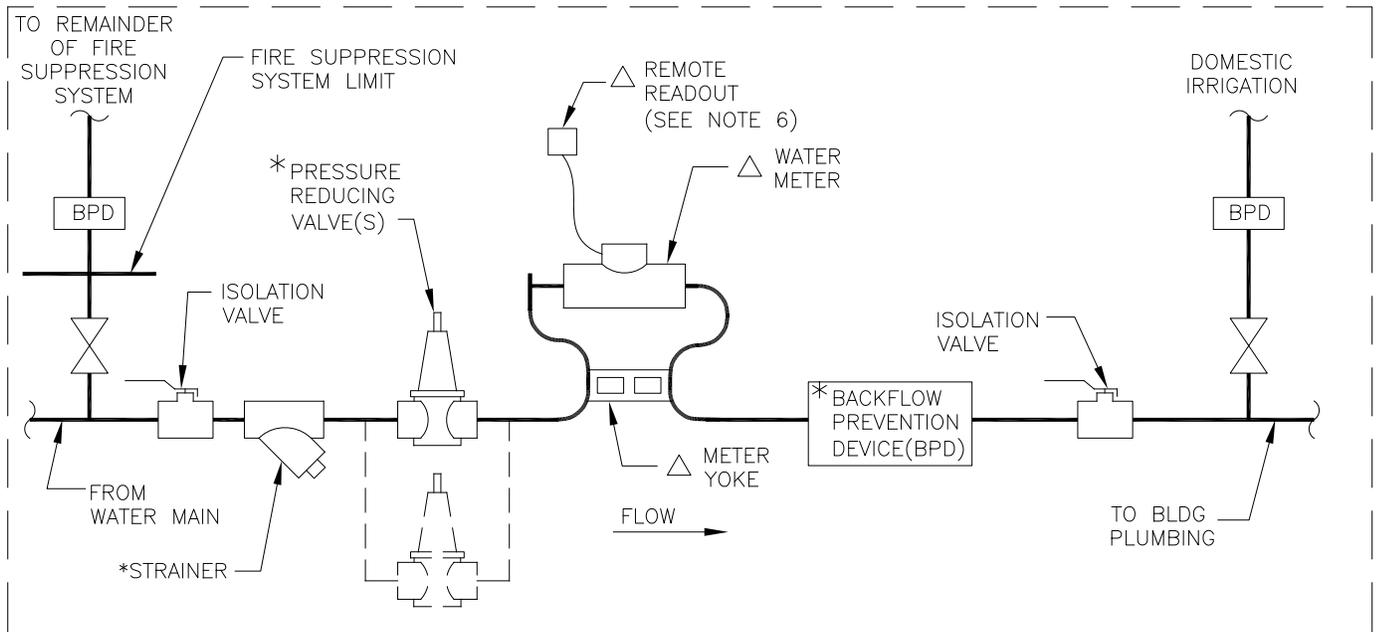
WINTER PARK WATER AND  
SANITATION DISTRICT

**WATER SERVICE  
INSTALLATION  
SINGLE FAMILY RESIDENCE**

DATE: 5/6/2015

**W-1**

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\* EQUIPMENT FURNISHED BY DISTRICT; OWNED AND MAINTAINED BY PROPERTY OWNER.

△ EQUIPMENT FURNISHED, OWNED AND MAINTAINED BY DISTRICT.

### NOTES

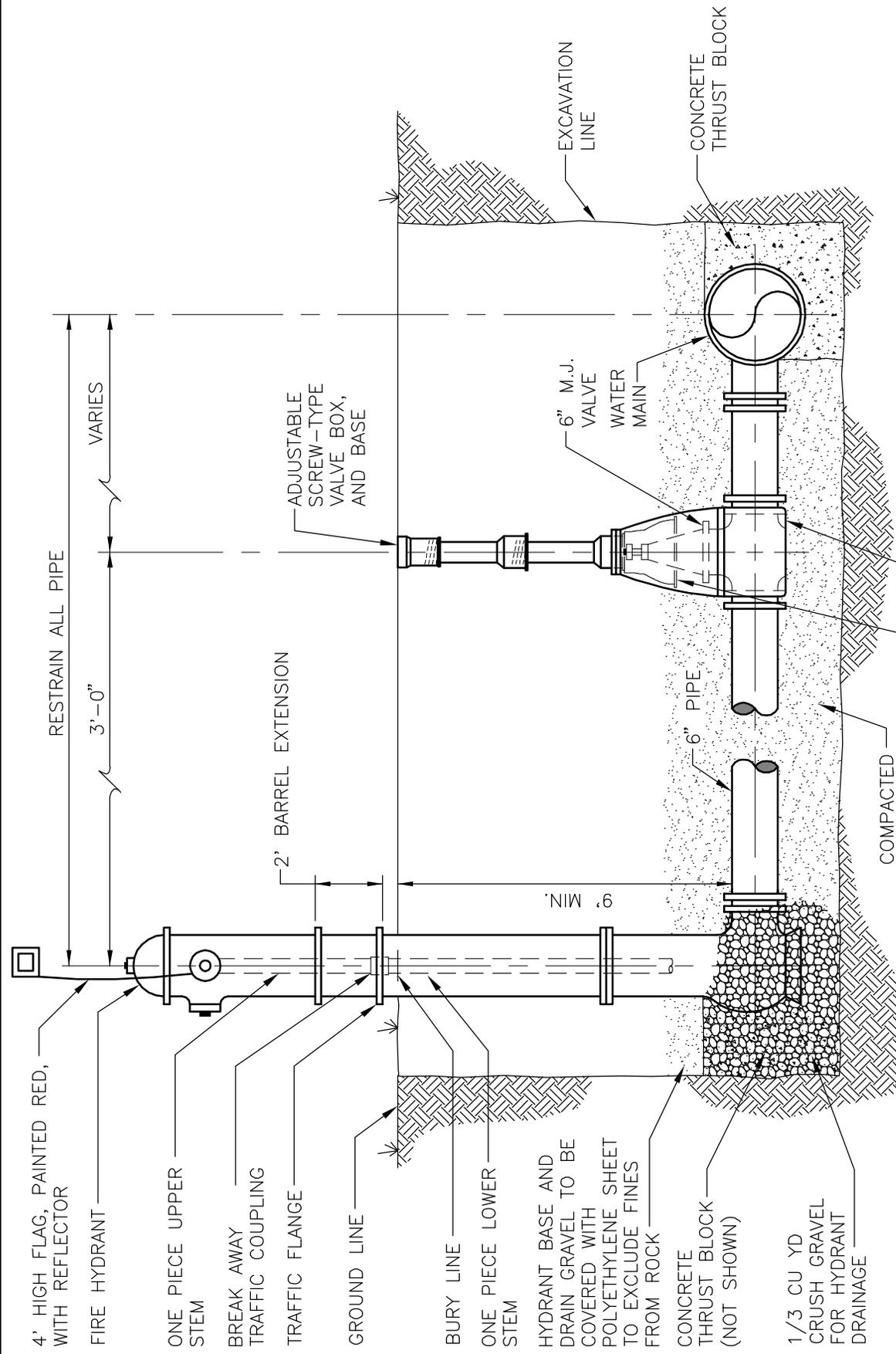
1. ISOLATION VALVE SHALL BE FULL-PORT BALL VALVE.
2. LOCATION OF WATER METER SERVICE EQUIPMENT AND REMOTE READOUT SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
3. WATER SERVICE EQUIPMENT SHALL BE LOCATED IN A HEATED SPACE, WITH REASONABLE SPACE FOR SERVICE OF EQUIPMENT.
4. METER SHALL BE SET IN METER YOKE. CONTRACTOR SHALL COORDINATE WITH DISTRICT SO DISTRICT CAN FURNISH THE PROPER METER YOKE FOR THE INSTALLATION.
5. METER MUST BE MOUNTED WITH REGISTER UPRIGHT AND METER HORIZONTAL, AND IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
6. REMOTE READOUT LOCATION MUST BE APPROVED BY THE DISTRICT STAFF PRIOR TO INSTALLATION. LOCATION OF REMOTE READOUT SHALL BE VISIBLE FROM THE STREET AND SHALL BE ACCESSIBLE YEAR-ROUND. REMOTE READOUT SHALL NOT BE LOCATED UNDER EAVE WHERE SNOW OR ICE CAN INTERFERE WITH EQUIPMENT OPERATION OR WOULD LIMIT ACCESS.
7. BACKFLOW PREVENTION DEVICE MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
8. TYPE OF BACKFLOW PREVENTION DEVICE WILL BE DETERMINED BY THE DISTRICT BASED ON THE THE BACKFLOW PREVENTION NEED. IF A REDUCED PRESSURE PRINCIPAL TYPE DEVICE IS REQUIRED, IT MUST BE LOCATED WHERE THE DEVICE CAN BE PLUMBED TO A DRAIN.
9. 1-1/2" AND 2" SERVICES MAY REQUIRE MULTIPLE PRV'S IN PARALLEL OR SERIES TO PROVIDE PROPER PRESSURE REDUCTION OVER VARYING FLOW RANGES.
10. IF WATER SERVICE LOCATION IS IN CRAWL SPACE, EQUIPMENT SHALL BE LOCATED WITHIN 3 FEET OF THE CRAWL SPACE ENTRANCE.
11. BACKFLOW PREVENTION DEVICES MUST BE INSPECTED AND TESTED BY CERTIFIED SERVICE PERSONNEL ANNUALLY AT OWNERS EXPENSE.
12. PLANS FOR MULTI-FAMILY AND/OR COMMERCIAL DEVELOPMENT SERVICE INSTALLATIONS SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO CONSTRUCTION TO VERIFY PROPER INSPECTION AND SERVICE ACCESS IS PROVIDED.

CONTACT DISTRICT FOR REQUIREMENTS FOR WATER SERVICE INSTALLATIONS LARGER THAN 2-INCHES.

WINTER PARK WATER AND SANITATION DISTRICT

**WATER SERVICE INSTALLATION  
MULTI-FAMILY OR  
COMMERCIAL DEVELOPMENT**

DATE: 5/6/2015	<b>W-2</b>
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4' HIGH FLAG, PAINTED RED, WITH REFLECTOR

FIRE HYDRANT

ONE PIECE UPPER STEM

BREAK AWAY TRAFFIC COUPLING

TRAFFIC FLANGE

GROUND LINE

BURY LINE

ONE PIECE LOWER STEM

HYDRANT BASE AND DRAIN GRAVEL TO BE COVERED WITH POLYETHYLENE SHEET TO EXCLUDE FINES FROM ROCK

CONCRETE THRUST BLOCK (NOT SHOWN)

1/3 CU YD CRUSH GRAVEL FOR HYDRANT DRAINAGE

RESTRAIN ALL PIPE

3'-0"

VARIABLE

ADJUSTABLE SCREW-TYPE VALVE BOX, AND BASE

2' BARREL EXTENSION

9" MIN.

6" PIPE

6" M.J. VALVE WATER MAIN

CONCRETE THRUST BLOCK

EXCAVATION LINE

WRAP PIPE, VALVE AND BASE OF VALVE BOX WITH MIRAFY 140N FABRIC AND CLOSE WITH TIES TO EXCLUDE SOIL

VALVE BOX AND BASE IS TO BE SUPPORTED ON PIPE BEDDING NOT PIPE OR VALVE

COMPACTED GRANULAR BEDDING MATERIAL

1/3 CU YD CRUSH GRAVEL FOR HYDRANT DRAINAGE

HYDRANT BASE AND DRAIN GRAVEL TO BE COVERED WITH POLYETHYLENE SHEET TO EXCLUDE FINES FROM ROCK

CONCRETE THRUST BLOCK (NOT SHOWN)

1/3 CU YD CRUSH GRAVEL FOR HYDRANT DRAINAGE

COMPACTED GRANULAR BEDDING MATERIAL

WRAP PIPE, VALVE AND BASE OF VALVE BOX WITH MIRAFY 140N FABRIC AND CLOSE WITH TIES TO EXCLUDE SOIL

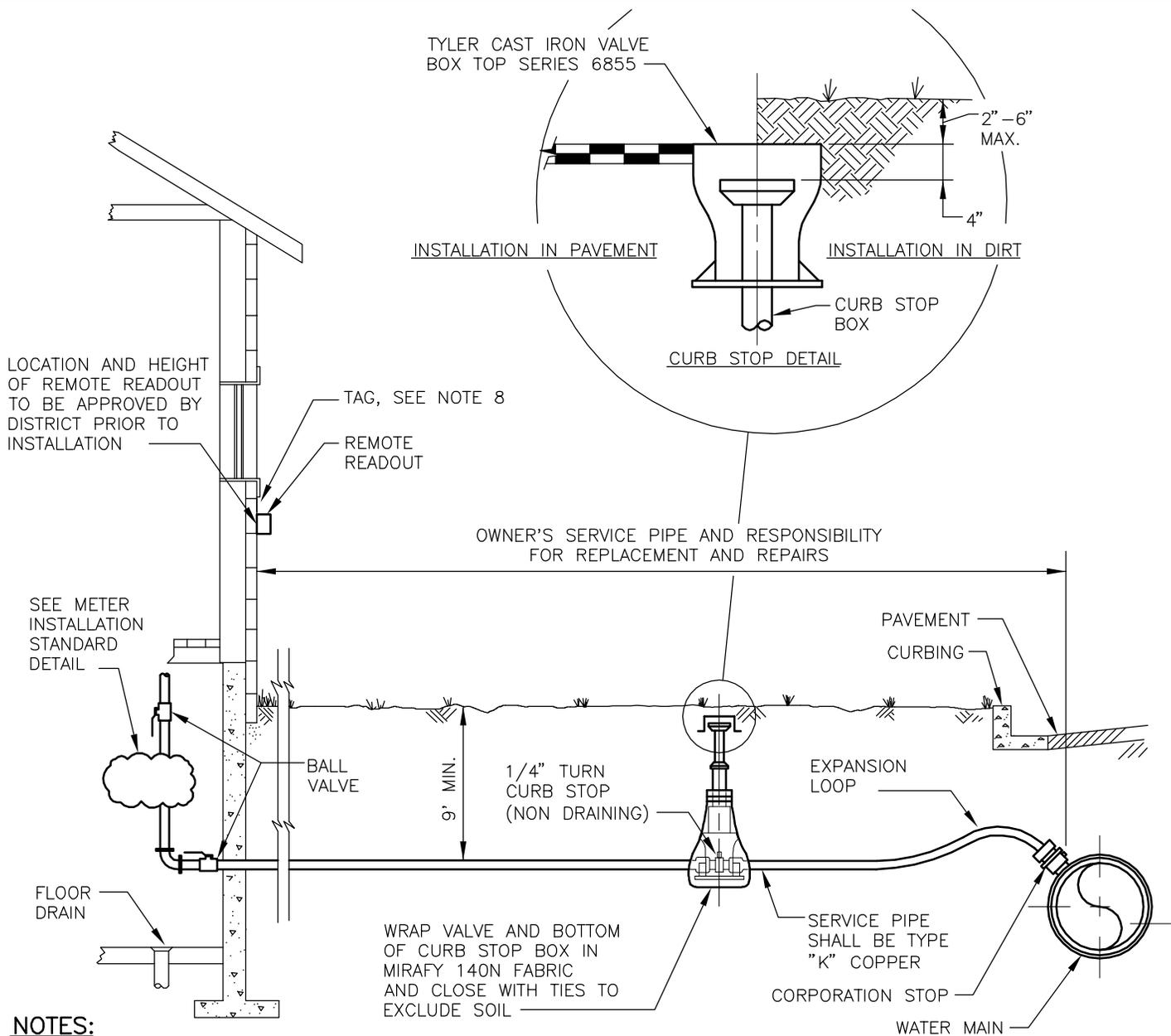
VALVE BOX AND BASE IS TO BE SUPPORTED ON PIPE BEDDING NOT PIPE OR VALVE

**NOTE**

1. FIRE HYDRANT SHALL BE MUELLER SUPER CENTURIAN, MOUNTAIN STANDARD, MOUNTAIN BURY WITH ONE PIECE UPPER STEM AND ONE PIECE (9' MIN) LOWER STEM.
2. BACKFILL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS. IF HYDRANT IS NOT PLUMB, CONTRACTOR SHALL RESET.

WINTER PARK WATER AND SANITATION DISTRICT	
FIRE HYDRANT SETTING DETAIL	
DATE: 2/23/2009	W-3

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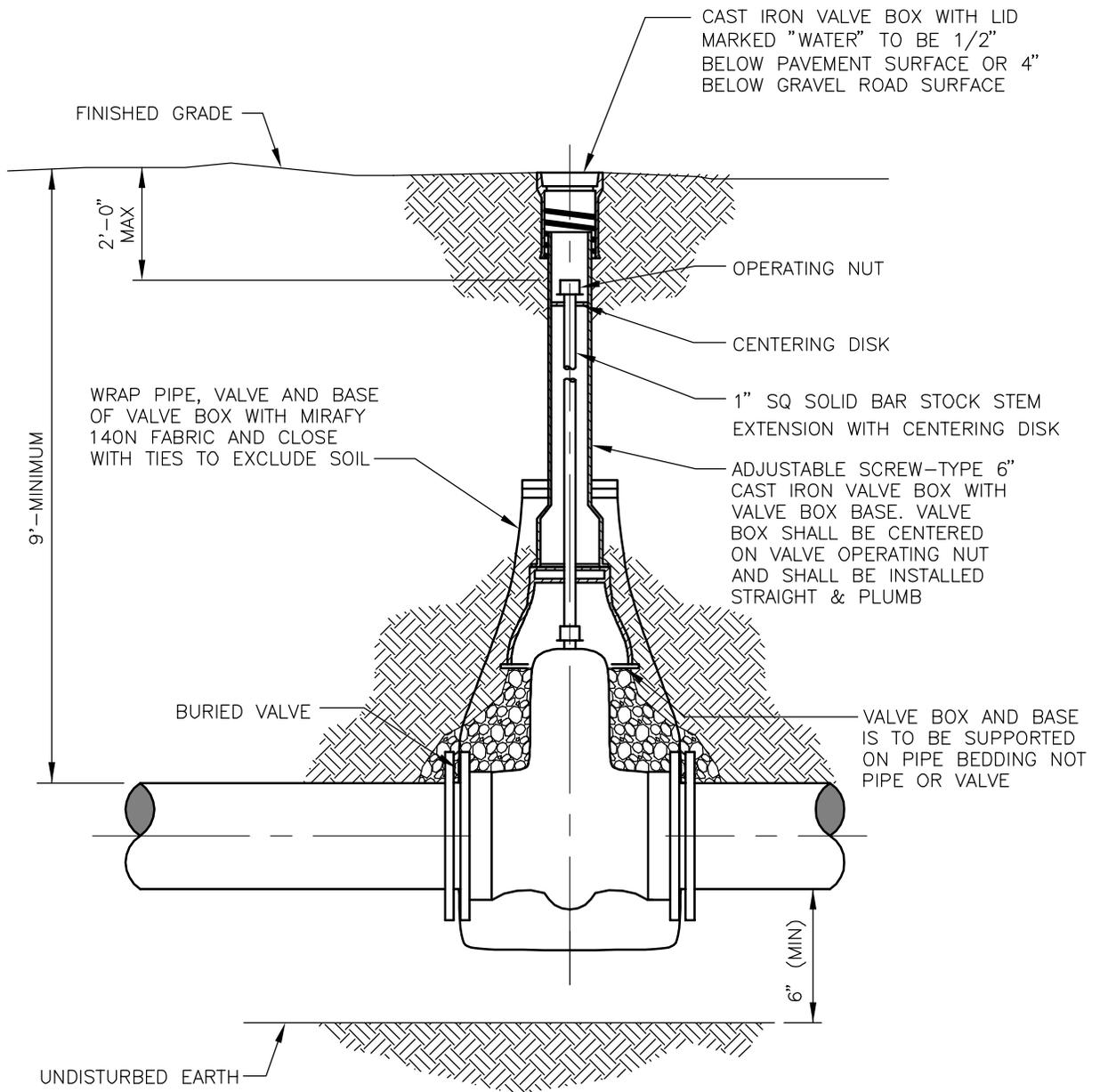


**NOTES:**

1. PLACE CURB STOP ON PRIVATE PROPERTY WITHIN 15 FT. OF PROPERTY LINE. CURB STOP SHALL NOT BE INSTALLED WITHIN A DITCH OR DRAINAGE. THE SITE DESIGN SHALL BE COMPLETED SUCH THAT THESE CONDITIONS CAN BE VERIFIED. LOCATION TO BE APPROVED BY THE DISTRICT PRIOR TO INSTALLATION. CURB STOP MUST BE LOCATED AT A SITE THAT IS ACCESSIBLE AT ALL TIMES, AND MUST NOT BE SUBJECT TO BURIAL UNDER SNOW STORAGE.
2. SERVICE PIPE SHALL BE INSTALLED WITH 6" OF COMPACTED BEDDING ON SIDES AND BOTTOM OF PIPE AND 12" ON TOP OF OF THE PIPE.
3. CURB STOP BOX SHALL BE CAST IRON AND COVER STAMPED "WATER". CURB STOP BOX SHALL BE INSTALLED STRAIGHT AND VERTICAL.
4. WITH INSTALLATION OF MULTIPLE CURB BOXES, CURB BOXES MUST BE SEPARATED BY 12-18".
5. INDOOR METER SHALL BE PLACED IN LOCATIONS WITH FLOOR DRAIN NEARBY.
6. NO BENDS, FITTINGS, CONNECTIONS, OR CHANGES IN PIPE SIZE PERMITTED BETWEEN TAP AND METER OUTLET VALVE, EXCEPT AS SHOWN.
7. CORPORATION STOP, CURB STOP AND SERVICE LINE SHALL BE THE SAME SIZE FROM MAIN TO THE SHUTOFF VALVE INSIDE THE BUILDING.
8. FOR MULTI-FAMILY BUILDINGS, PROVIDE ADDRESS AND UNIT NUMBER ON A BRASS TAG. THE TAG SHALL BE MOUNTED IMMEDIATELY ADJACENT TO THE REMOTE READOUT.

<b>WINTER PARK WATER AND SANITATION DISTRICT</b>	
<b>SERVICE LINE, STOP BOX AND INSIDE METER INSTALLATION FOR SINGLE FAMILY RESIDENCE</b>	
DATE: 2/23/2009	<b>W-4</b>

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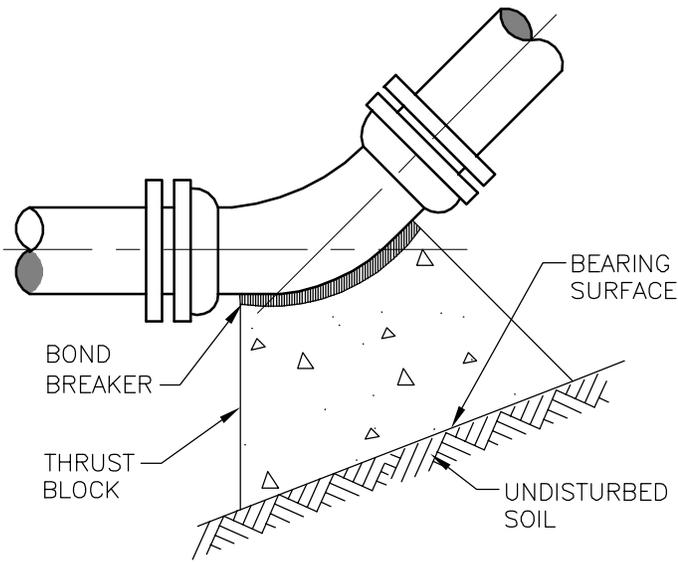


**NOTES:**

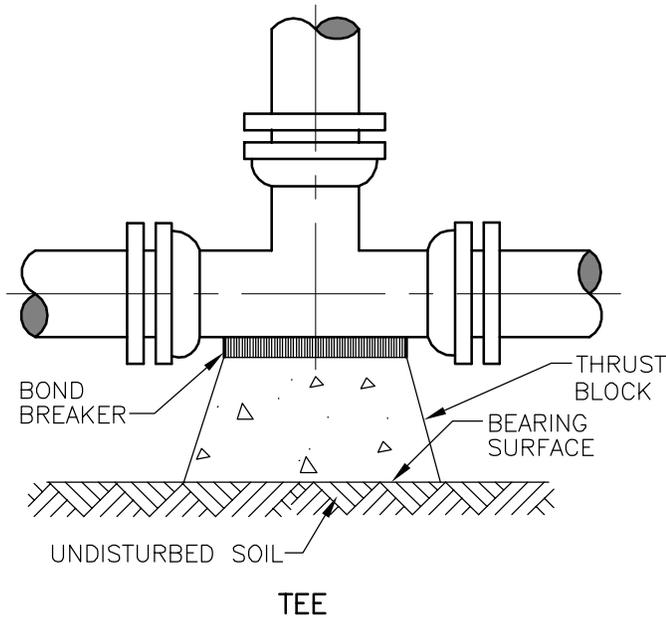
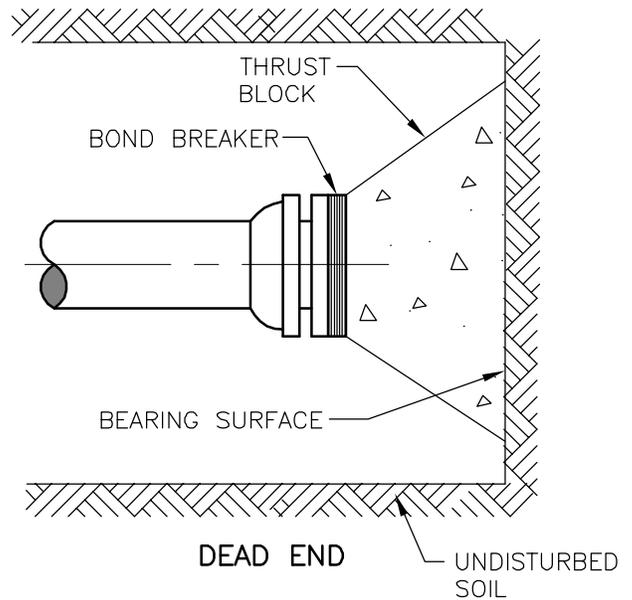
1. BACKFILL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS. IF VALVE BOX IS NOT PLUMB, CONTRACTOR SHALL RESET.

WINTER PARK WATER AND SANITATION DISTRICT	
<b>VALVE BOX INSTALLATION</b>	
DATE: 3/24/2009	<b>W-5</b>

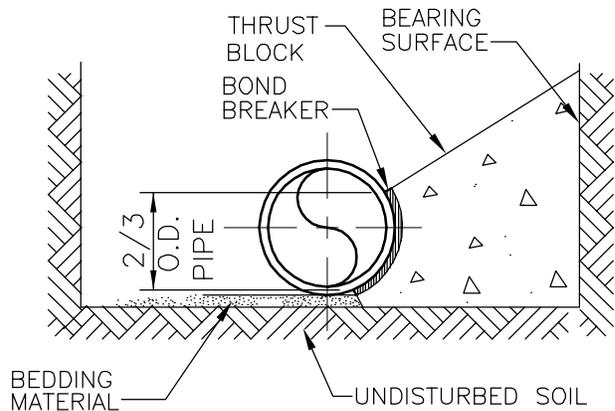
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11¼°, 22½°, 45° AND 90° BENDS



TEE



TYPICAL CROSS SECTION

**NOTES**

1. BEARING SURFACES SHOWN IN CHART ARE MINIMUMS BASED ON AWWA M41.
2. BASED ON 150 AND 250 PSI INTERNAL PIPE PRESSURE.
3. BASED ON 2000 PSF SOIL BEARING CAPACITY. VERIFY ACTUAL FIELD CONDITIONS
4. SAFETY FACTOR = 1.5.
5. CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000psi AFTER 28 DAYS. CONCRETE MUST BE COMPLETELY BATCHED BEFORE PLACING CONCRETE INTO THE THRUST BLOCK FORMS.
6. ALL THRUST BLOCKS MUST MEET MINIMUM CONCRETE CURE TIMES BEFORE BACKFILL AND PRESSURIZATION OF THE PIPE. SEE WATER MAIN SPECIFICATION FOR DETAILED REQUIREMENTS.
7. ALL JOINTS SHALL BE RESTRAINED WITH MEGALUG AND THRUST BLOCKS.
8. VERIFY DESIGN PRESSURE FOR TABLE REPRESENTS ACTUAL CONDITIONS.

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET) 150 PSI INTERNAL PRESSURE (225 PSI TEST PRESSURE)					
SIZE OF PIPE	BENDS				TEE OR DEAD END
	11¼°	22½°	45°	90°	
6"	1	2	5	9	13
8"	2	4	8	15	22
12"	5	9	18	33	46

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET) 250 PSI INTERNAL PRESSURE (375 PSI TEST PRESSURE)					
SIZE OF PIPE	BENDS				TEE OR DEAD END
	11¼°	22½°	45°	90°	
6"	2	4	8	15	21
8"	4	7	14	26	36
12"	8	15	29	54	77

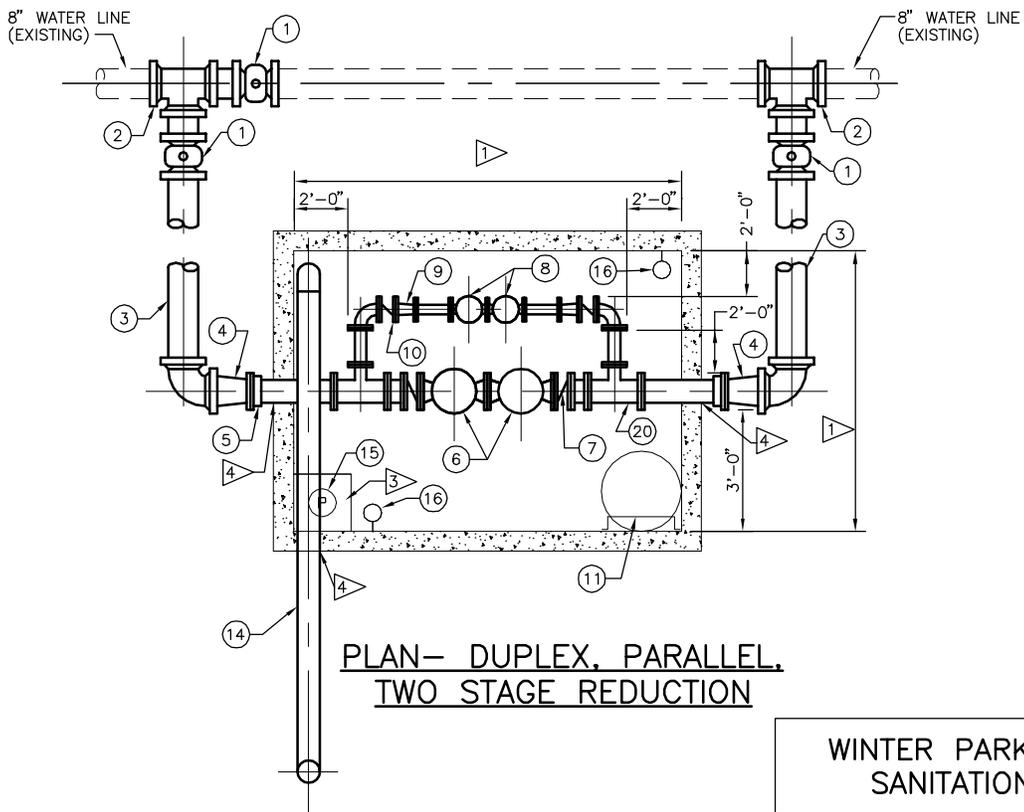
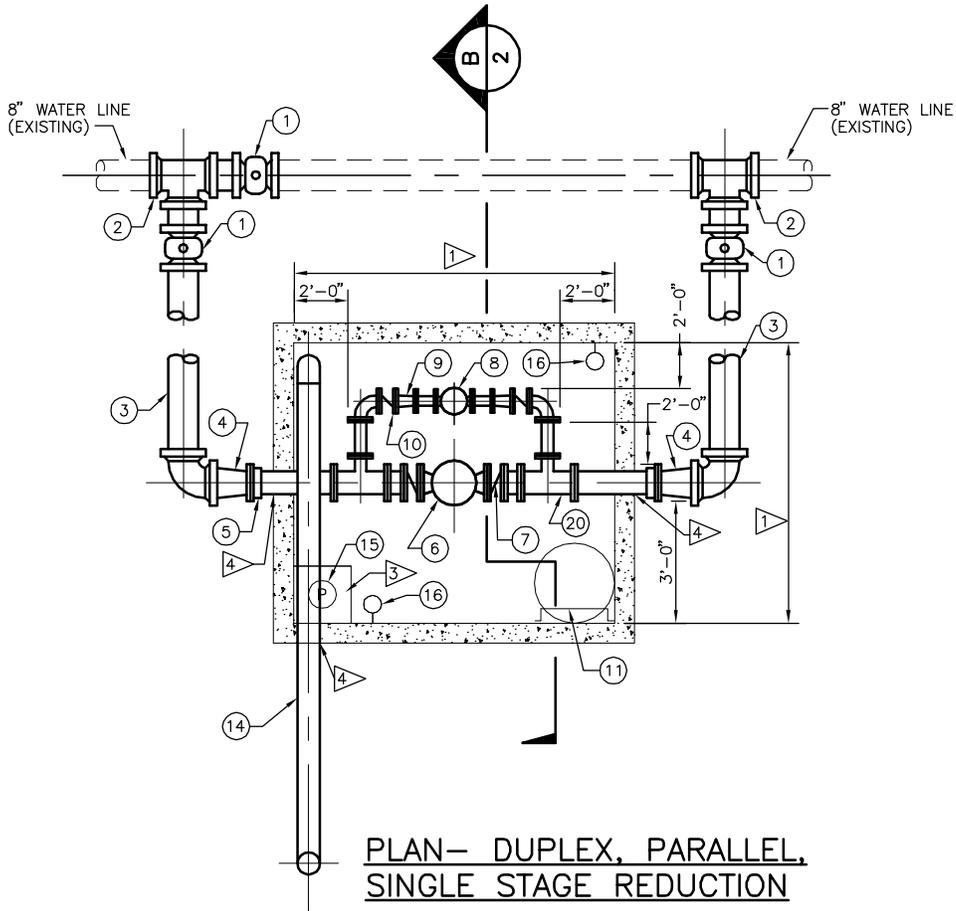
WINTER PARK WATER AND SANITATION DISTRICT

**CONCRETE KICKBLOCKS  
BEARING SURFACES  
AND INSTALLATION**

DATE: 2/23/2009

**W-6**

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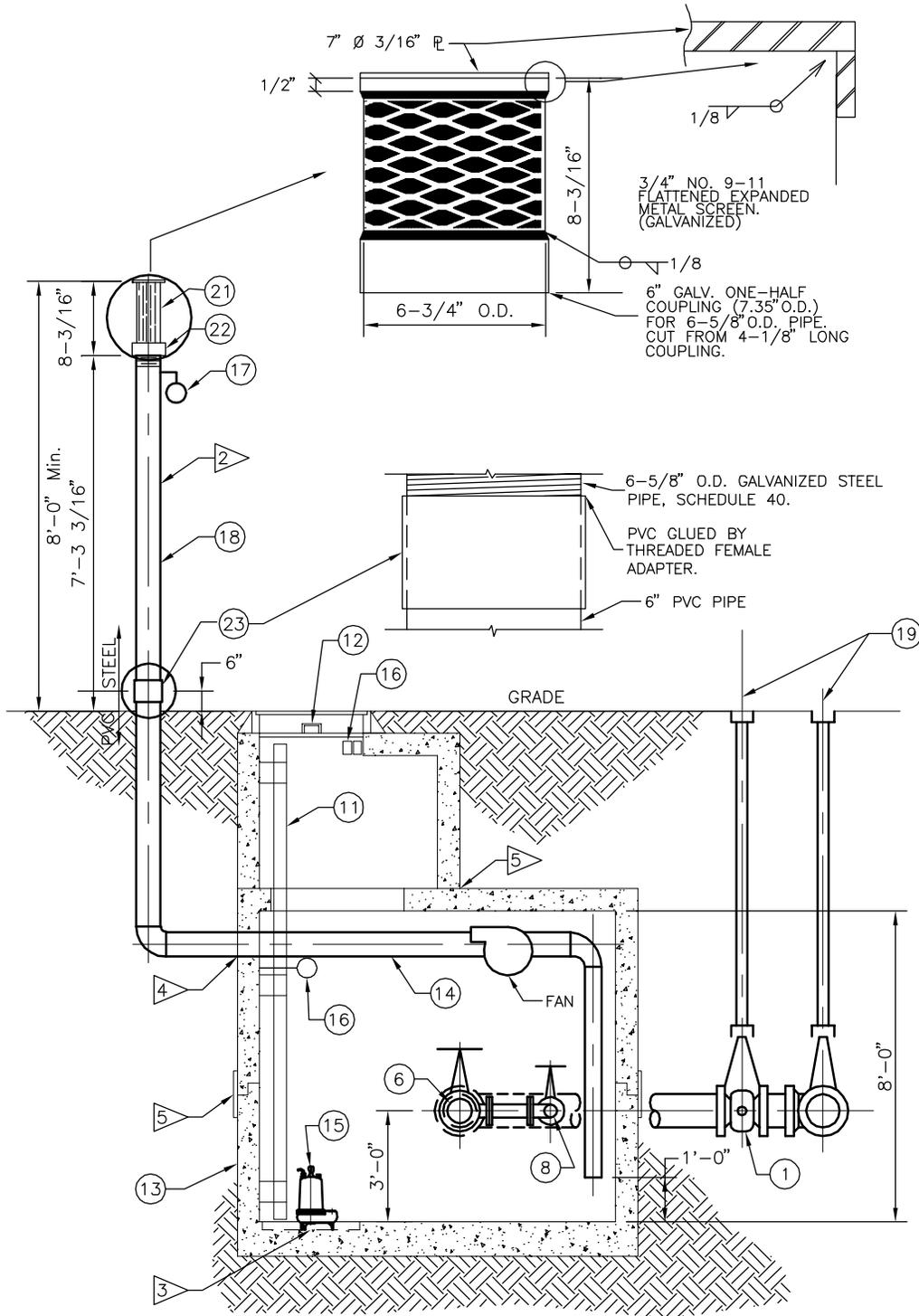


WINTER PARK WATER AND  
SANITATION DISTRICT

PRV VAULT  
PLAN VIEW

DATE: 2/23/2009 **Sheet 1** W-7

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SECTION B  
1

WINTER PARK WATER AND SANITATION DISTRICT	
PRV VAULT SECTION	
DATE: 2/23/2009	Sheet 2 W-7

## GENERAL NOTES:

1. NOTE ALL FITTINGS, PIPE AND EQUIPMENT ARE LABELED IF TYPICAL.
2. ALL PIPING INSIDE VAULT SHALL BE EPOXY COATED PER TMEMIC SERIES OR APPROVED EQUAL.
3. VALVES 2" AND SMALLER SHALL BE SS BALL VALVES.
4. PIPE AND CONTROL VALVE SIZING AND OPERATING PRESSURE SHALL BE APPROVED BY WPUSD.
5. ALL PIPE INSIDE VAULT SHALL BE FLANGED OR RESTRAINED.
6. ALL BURIED PIPE SHALL BE MECHANICAL JOINT PIPE.
7. ALL PRV VAULTS SHALL BE PROVIDED WITH 120 V POWER, LIGHTS, SWITCHED EXHAUST FAN, ELECTRICAL RECEPTICLES, SUMP PUMP, WATER ON FLOOR SWITCH, AND EXTERIOR ALARM LIGHT.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE DISTRICT RULES AND REGULATIONS, THE NEC, AND ANY OTHER APPLICABLE REGULATIONS.

## CONSTRUCTION NOTES:

- 1 ▷ VAULT DIMENSIONS AS REQUIRED TO PROVIDE FOR EQUIPMENT AND CLEARANCES SHOWN.
- 2 ▷ VENT PIPE TO BE LOCATED IN FIELD AT THE NEAREST INTERSECTION OF THE STREET PROPERTY LINE AND THE SIDE LOT LINE. LOCATION TO BE APPROVED BY WPUSD. FOR RESIDENTIAL INSTALLATIONS, SEE DENVER WATER DRAWING #40.
- 3 ▷ 4" DEPRESSION IN FLOOR FOR SUMP (18" SQUARE).
- 4 ▷ FIELD LOCATE AND CORE DRILL OPENINGS FOR PIPE AND DUCTS. SEAL ANNULUS WITH LINKSEAL-TYPE WALL PENETRATION SEALS AT INSIDE AND OUTSIDE ALL SURFACE. LINKSEAL SHALL BE INSTALLED TO BE TIGHTENED FROM INSIDE THE VAULT. CAST IN PLACE OPENINGS SHALL BE FURNISHED WITH EPOXY COATED WALL SLEEVES.
- 5 ▷ ALL FIELD JOINTS SHALL BE SEALED WITH 2 STRIPS OF RAMNEK. EXTERIOR WALL SHALL BE PRIMED WITH ASPHALT TACK COAT AND WRAPPED WITH 12" CONWRAP.

WINTER PARK WATER AND  
SANITATION DISTRICT

**PRV VAULT  
GENERAL AND FLAG NOTES**

DATE: 2/23/2009 **Sheet 3 W-7**

## EQUIPMENT NOTES:

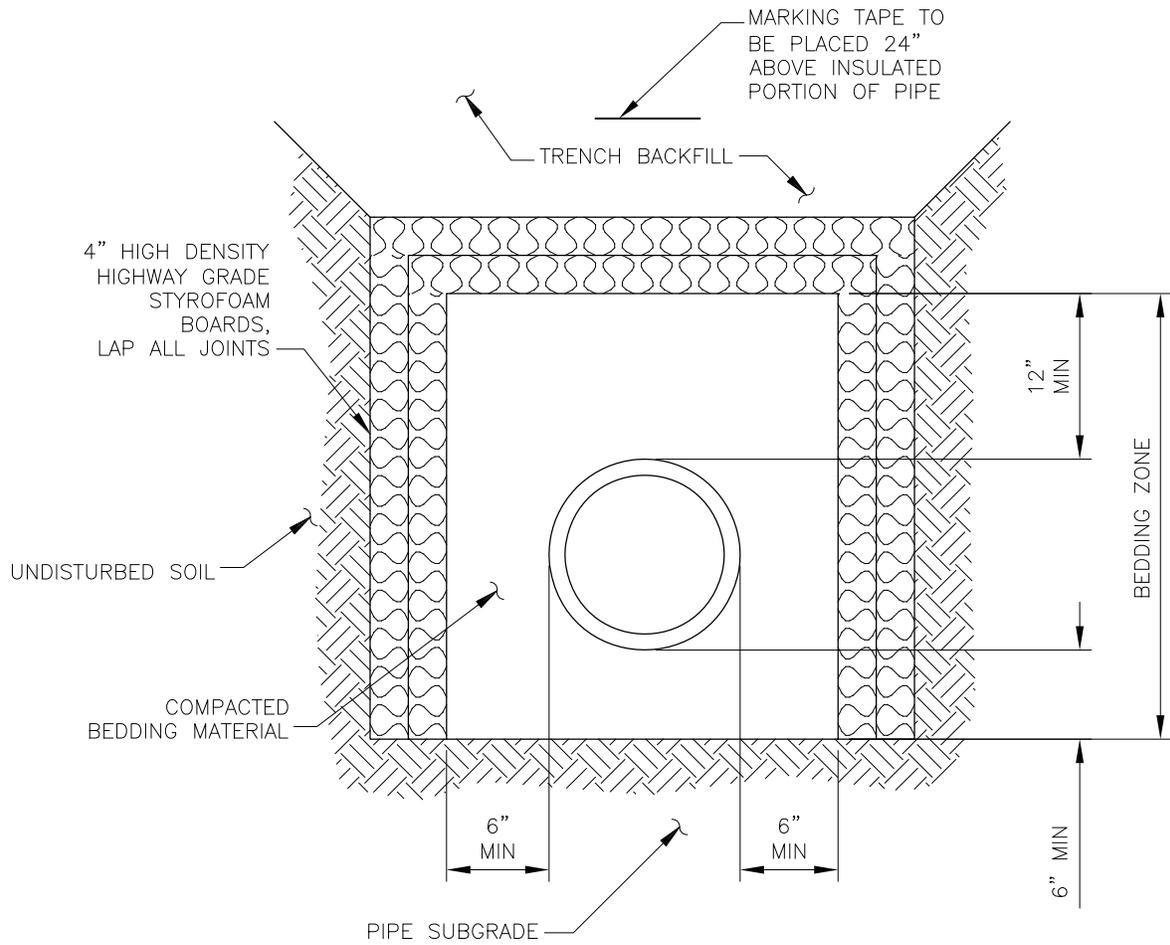
- ① RESILIENT SEAT GATE VALVE, VALVE BOX AND VALVE STEM EXTENSION.
- ② MJ TEE AND SWIVEL COUPLING ANCHOR.
- ③ 8" DIP PIPING TO VAULT.
- ④ 8" x 6" MJ REDUCER.
- ⑤ 6" FLG x PE PIPE SPOOL WITH RESTRAINT.
- ⑥ 6" PRESSURE REDUCING VALVE CLA-VAL 90-01 ABCSKC, 150# FLANGED (2 VALVES IN SERIES MAY BE REQUIRED DEPENDENT ON PRESSURES - CONSULT WPWS).
- ⑦ 6" BFV WITH GEAR OPERATOR.
- ⑧ 2-1/2" PRESSURE REDUCING VALVE CLA-VAL 90-01 ABCSKC, 150# FLANGED (2 VALVES IN SERIES MAY BE REQUIRED DEPENDENT ON PRESSURES CONSULT WPWS).
- ⑨ 3" x 2-1/2" REDUCER.
- ⑩ 3" BFV WITH LEVER ACTUATOR.
- ⑪ STEEL LADDER GALVANIZED WITH 3/4" STOPS @ 12" O.C. AND 2-1/2" x 3/8" RAILS AND ANCHOR LEGS.
- ⑫ 36" MH WITH 24" MH INSERT, HEAVY DUTY RATING, FROST PROOF.
- ⑬ CAST-IN-PLACE/PRE-CAST VAULT SHALL BE DESIGNED FOR BURY LOADS AND ALSO PROVIDE FOR BOUYANT FORCES FOR HIGH GROUND WATER WITH MINIMUM REQUIREMENT FOR PRECAST MEETING ASTM C-857, C-858, ACI 318-89 HS 20 LOADING.
- ⑭ 6" DIAMETER SCHEDULE 40 PVC PIPE WITH GLUED JOINTS.
- ⑮ SUBMERSIBLE PUMP ACTIVATED BY PRESSURE SWITCH. WITH (NOT SHOWN) DISCHARGE TO DAYLIGHT AS APPROVED BY WPWS.
- ⑯ SUBMERSIBLE LIGHT FIXTURES (2) AND RECEPTACLES (2) SHALL BE PROVIDED; 7' AFF. LIGHTS TO BE OPERATED BY SWITCH LOCATED AT VAULT ENTRANCE. ADDITIONAL RECEPTACLE TO BE PROVIDED AT VAULT ENTRANCE.
- ⑰ WATER ON FLOOR SWITCH SHALL ACTIVATE ALARM LIGHT MOUNTED ON VENT PIPE.
- ⑱ 6-5/8" O.D. SCHEDULE 40 GALVANIZED STEEL VENT PIPE WITH THREADED JOINTS.
- ⑲ VALVE BOX WITH HEAVYWEIGHT ONE PIECE STEM EXTENSION AND ONE PIECE RISER.
- ⑳ 6" x 6" x 3" TEE
- ㉑ FABRICATED VENT SCREEN
- ㉒ THREADED END ON VENT PIPE
- ㉓ BREAKAWAY COUPLING

WINTER PARK WATER AND  
SANITATION DISTRICT

PRV VAULT  
EQUIPMENT NOTES

DATE: 2/23/2009 **Sheet 4 W-7**

7/31/2015 2:53:49 PM, I:\PROJECTS\6844633\_WP\_SD\_NEW\_GENERAL\_SE\SUB\_00\9.0\_CAD\STANDARDDETAILS\2009 REVISIONS\DETAILW-8.DWG, CHAVEZ, JULIAN



### NOTES

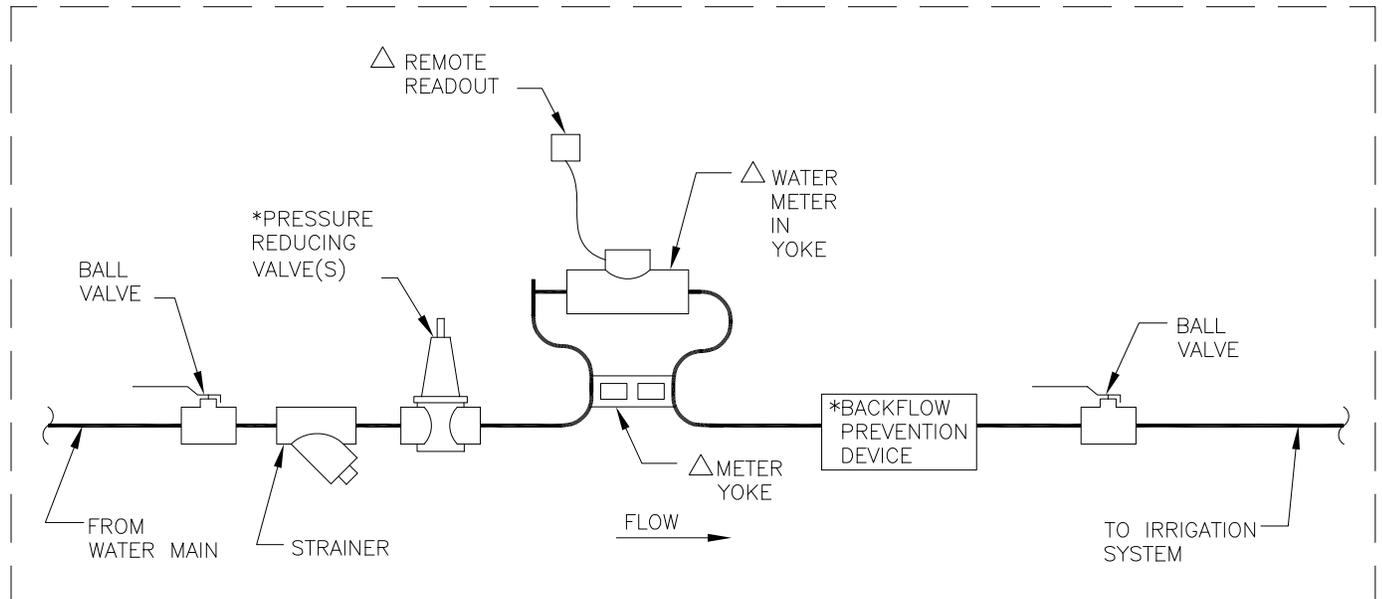
1. INSULATION REQUIRED FOR CONDITIONS OF LESS THAN 9' DEPTH OF BURY TO TOP OF PIPE OR LESS THAN 3 FEET SEPARATION FROM CULVERTS.
2. MAINTAIN CLEARANCE BETWEEN ALL PARTS OF THE PIPE AND INSULATION WITH BEDDING.
3. EXERCISE CARE IN FITTING BOARDS TO PERMIT NOT MORE THAN 1/4" SIZE GAPS.

## WATER PIPE INSULATION

NTS

WINTER PARK WATER AND SANITATION DISTRICT	
<b>WATER PIPE INSTALLATION</b>	
DATE: 7/31/2015	<b>W-8</b>

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\* EQUIPMENT FURNISHED BY DISTRICT;  
OWNED AND MAINTAINED BY COMMON ENTITY.

△ EQUIPMENT FURNISHED, OWNED AND  
MAINTAINED BY DISTRICT.

### NOTES

1. A SEPARATE METER IS REQUIRED FOR IRRIGATION OF A COMMON AREA.
2. VALVES SHALL BE FULL-PORT VALVES.
3. LOCATION OF WATER METER SERVICE EQUIPMENT AND REMOTE READOUT SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
4. WATER SERVICE EQUIPMENT SHALL BE LOCATED IN A HEATED SPACE, WITH REASONABLE SPACE FOR SERVICE OF EQUIPMENT.
5. METER SHALL BE SET IN METER YOKE. CONTRACTOR SHALL COORDINATE WITH DISTRICT SO DISTRICT CAN FURNISH THE PROPER METER YOKE FOR THE INSTALLATION.
6. METER MUST BE MOUNTED WITH REGISTER UPRIGHT AND METER HORIZONTAL, AND IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
7. LOCATION OF REMOTE READOUT SHALL BE VISIBLE FROM THE STREET AND SHALL BE ACCESSIBLE YEAR-ROUND. REMOTE READOUT SHALL NOT BE LOCATED UNDER EAVE WHERE SNOW OR ICE CAN INTERFERE WITH EQUIPMENT OPERATION OR WOULD LIMIT ACCESS.
8. BACKFLOW PREVENTION DEVICE MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. TYPE OF BACKFLOW PREVENTION DEVICE WILL BE DETERMINED BY THE DISTRICT BASED ON THE THE BACKFLOW PREVENTION NEED. IF A REDUCED PRESSURE PRINCIPAL TYPE DEVICE IS REQUIRED, IT MUST BE LOCATED WHERE THE DEVICE CAN BE PLUMBED TO A DRAIN.
10. SOME HIGHER PRESSURE INSTALLATIONS MAY REQUIRE TWO PRESSURE REDUCING VALVES IN SERIES.
11. IF WATER SERVICE LOCATION IS IN CRAWL SPACE, EQUIPMENT SHALL BE LOCATED WITHIN 3 FEET OF THE CRAWL SPACE ENTRANCE.
12. BACKFLOW PREVENTION DEVICES MUST BE INSPECTED AND TESTED BY CERTIFIED SERVICE PERSONNEL ANNUALLY.
13. IRRIGATION OF COMMON AREAS WITH RESIDENTIAL METER IS NOT PERMITTED.

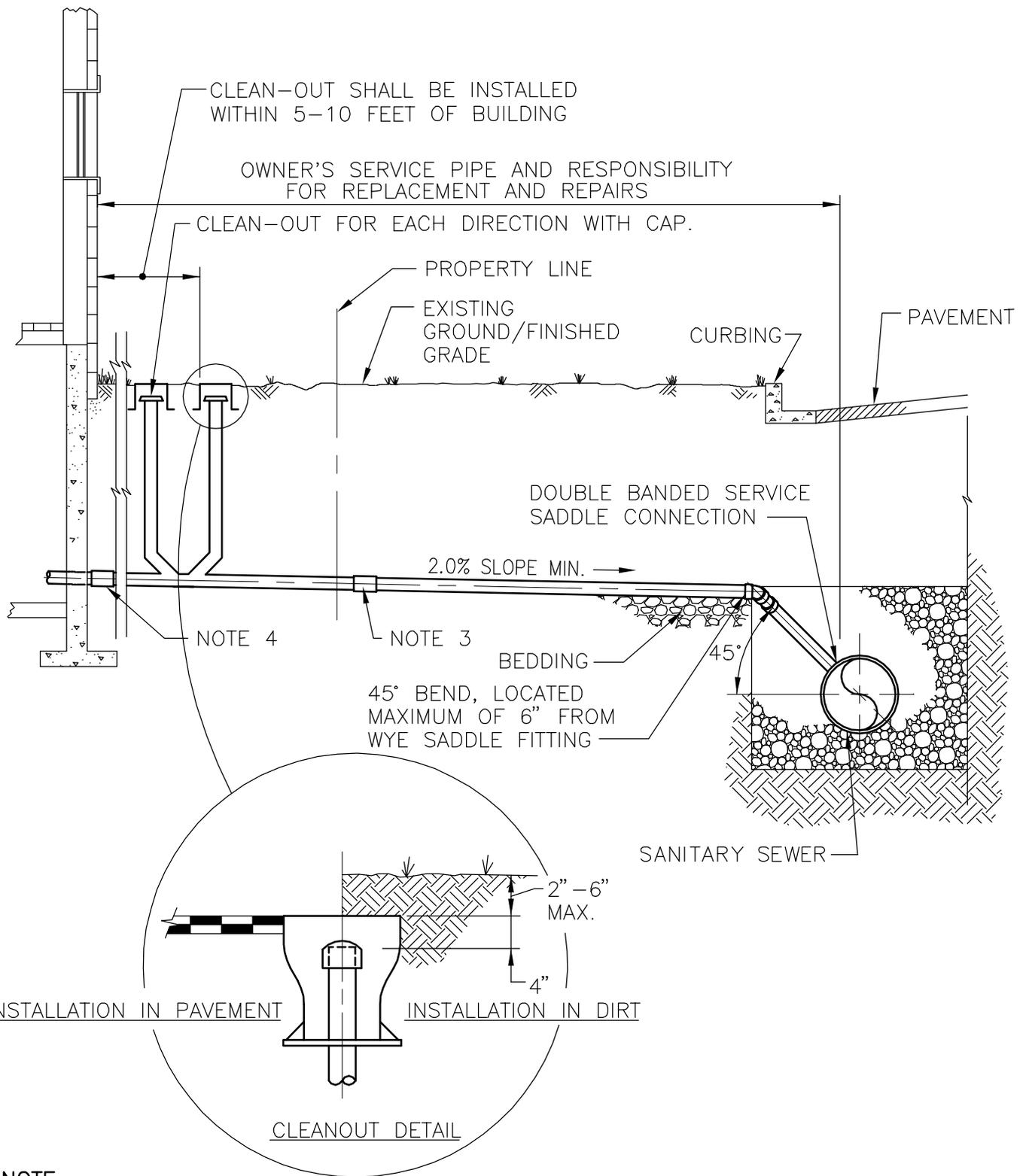
WINTER PARK WATER AND  
SANITATION DISTRICT

**COMMON AREA  
IRRIGATION METER**

DATE: 5/6/2015

**I-1**

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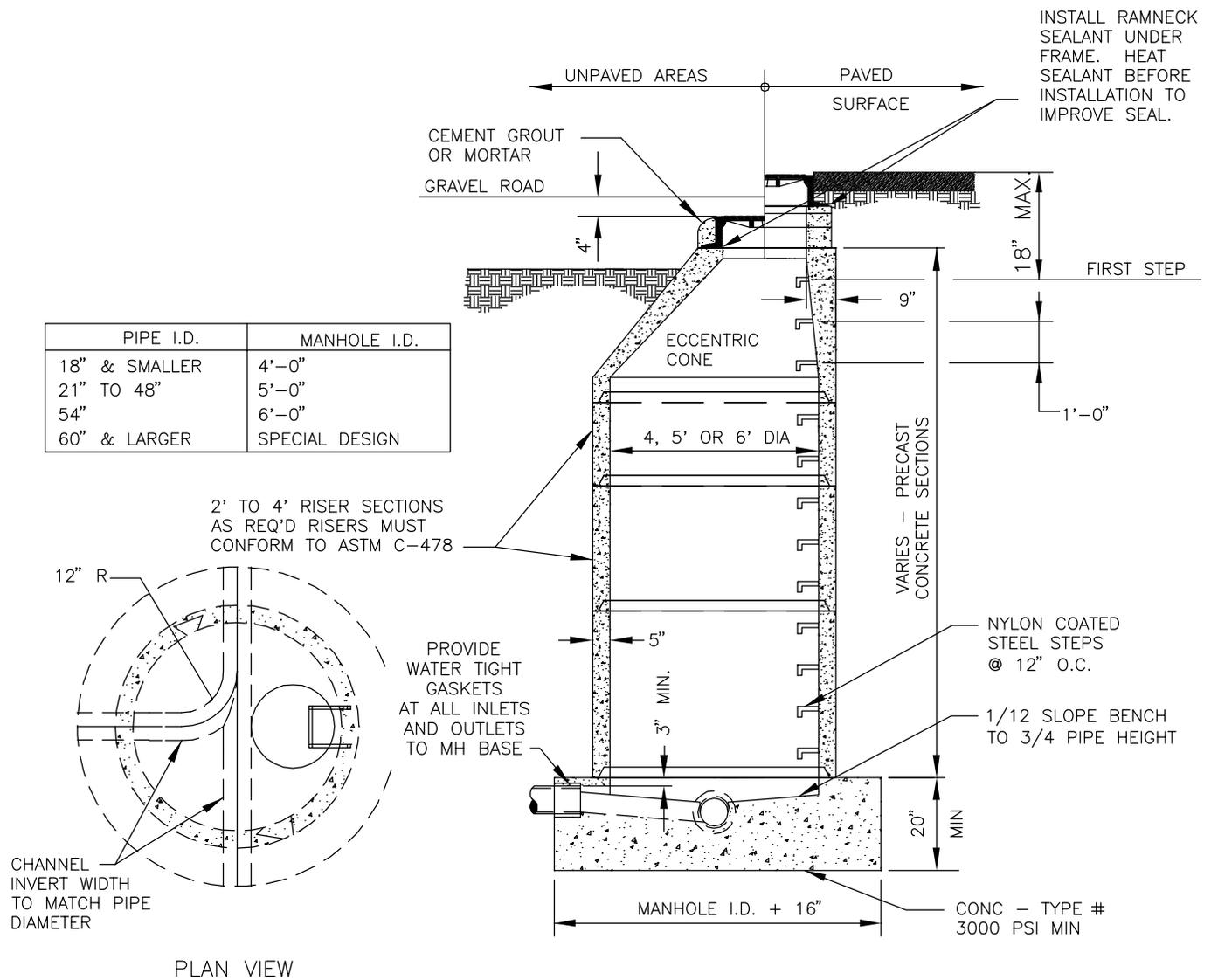
**NOTE**

1. HOLE IN SEWER SHALL ONLY BE CUT WITH HOLE SAW. COUPON SHALL BE PROVIDED TO DISTRICT INSPECTOR.
2. CLEANOUT BOX SHALL BE CAST IRON AND COVER STAMPED "CLEANOUT". CLEANOUT BOX SHALL BE INSTALLED STRAIGHT AND VERTICAL.
3. SOLID STAINLESS STEEL SLEEVE TYPE FLEXIBLE COUPLING SHALL BE USED IN THIS LOCATION, FERNCO PROFLEX OR EQUAL. NO PLAIN FLEXIBLE FERNCO TYPE RUBBER COUPLINGS ARE PERMITTED.
4. RIGID, GASKETED, COUPLING SHALL BE USED IN THIS LOCATION, NO RUBBER OR FLEXIBLE COUPLINGS PERMITTED.
5. GLUED CONNECTION ARE NOT PERMITTED.

WINTER PARK WATER AND SANITATION DISTRICT	
<b>SINGLE FAMILY RESIDENCE SEWER SERVICE CONNECTION DETAIL</b>	
DATE: 2/23/2009	<b>S-1</b>



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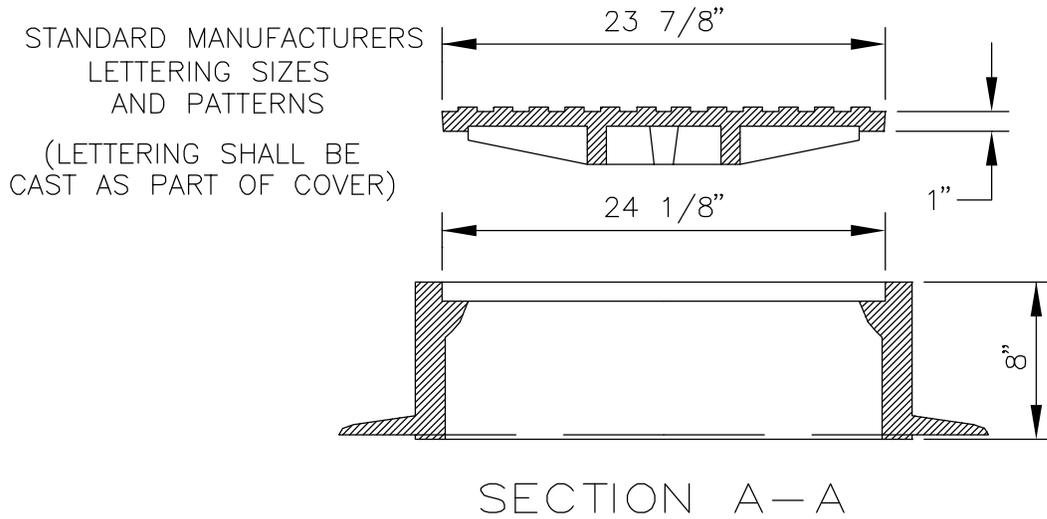
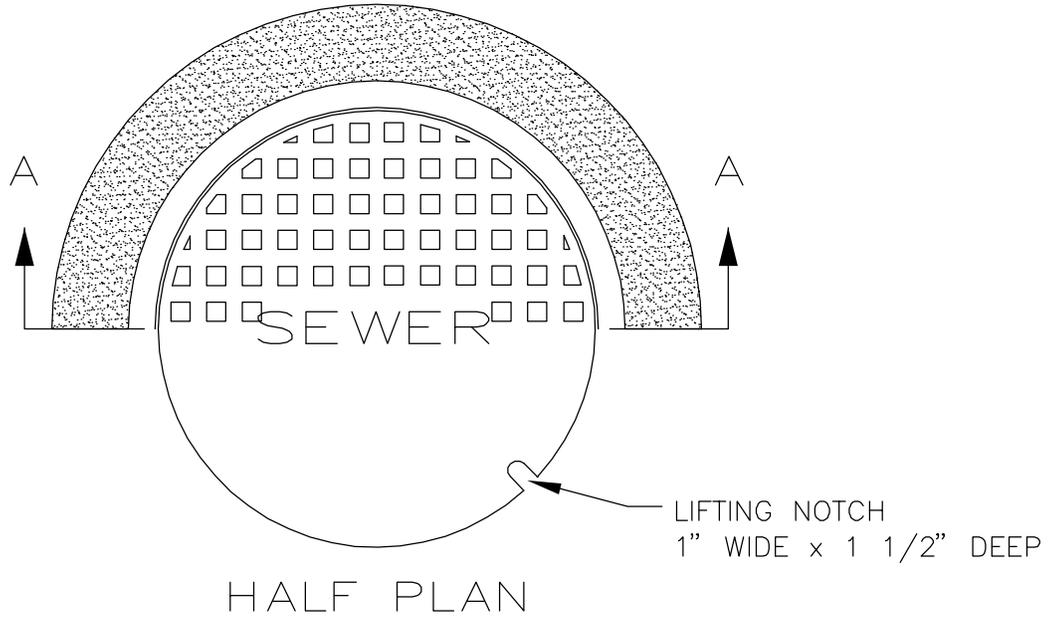


**NOTES**

1. BARREL DIAMETER SHALL CONFORM TO THE TABLE ABOVE.
2. FLAT CONCRETE MANHOLE TOPS MAY BE USED INSTEAD OF CONE SECTIONS WHERE RIM TO INVERT IS 7'-0" OR LESS.
3. SET EACH ADJUSTING RING IN A FULL BED OF BITUMINOUS MASTIC (RAMNECK).
4. MANHOLE STEPS SHALL BE POSITIONED OVER THE BENCH IN A VERTICAL LINE.
5. 12-INCH BITUMINOUS SHEETING (CONWRAP OR EQUAL) SHALL BE INSTALLED ON EXTERIOR OF ALL MANHOLE JOINTS, OVER BITUMINOUS TACK COAT.
6. MANHOLE LID SHALL BE 1/2" BELOW ASPHALT. FRAME AND LID SHALL BE SLOPED TO MATCH PAVEMENT USING THE WHIRLYGIG MANHOLE RISER-COLLAR CAST-IN-PLACE SYSTEM, OR EQUAL. (MANHOLE LIDS NOT CONFORMING TO THIS REQUIREMENT SHALL BE RESET AS NECESSARY.) WITH ROAD OVERLAY PROJECTS, MANHOLE RIM ADJUSTMENT RINGS MAY BE USED TO ADJUST MH RIM TO 1/2" BELOW THE REVISED ROADWAY GRADE.

<b>WINTER PARK WATER AND SANITATION DISTRICT</b>	
<b>SEWER MANHOLE</b>	
DATE: 3/24/2009	<b>S-3</b>

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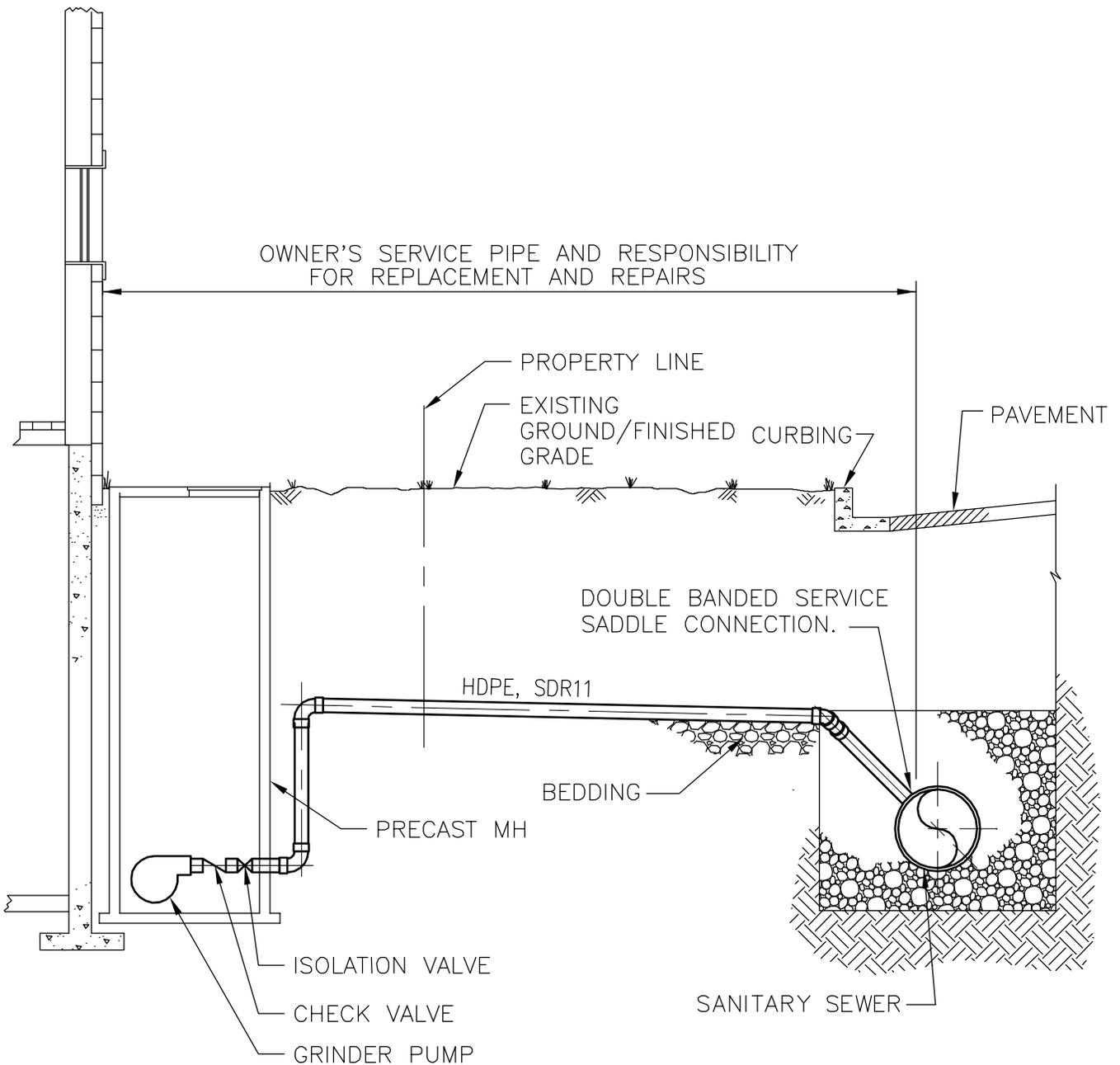


**NOTES**

1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING & COVER OR EQUIVALENT).
2. TOTAL MINIMUM WEIGHT APPROXIMATELY 410 LBS.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE SUBJECTED TO DRAINAGE WAYS.

WINTER PARK WATER AND SANITATION DISTRICT	
<b>24" MANHOLE RING AND COVER</b>	
DATE: 2/23/2009	<b>S-4</b>

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### NOTE

1. HOLE IN SEWER SHALL ONLY BE CUT WITH HOLE SAW. COUPON SHALL BE PROVIDED TO DISTRICT.
2. ALL FITTINGS SHALL BE RATED FOR 150 PSI SERVICE.
3. FORCE MAINS LESS THAN 4 INCHES IN DIAMETER MUST CONNECT TO THE PUBLIC SANITARY SEWER THROUGH A STANDARD WYE. THE FORCE MAIN MUST CONNECT TO THE TEE OR WYE IN A MANNER TO PREVENT SEWAGE FROM ENTERING THE FORCE MAIN WHEN THE MAIN LINE SEWER IS FLOWING FULL. AFTER THE CONNECTIONS ARE INSPECTED THE CONNECTION MUST CONCRETE ENCASED TO PREVENT SEPARATION DUE TO THRUST.
4. GLUED CONNECTIONS ARE NOT PERMITTED.

WINTER PARK WATER AND  
SANITATION DISTRICT

**GRINDER PUMP  
SERVICE CONNECTION**

DATE: 3/24/2009

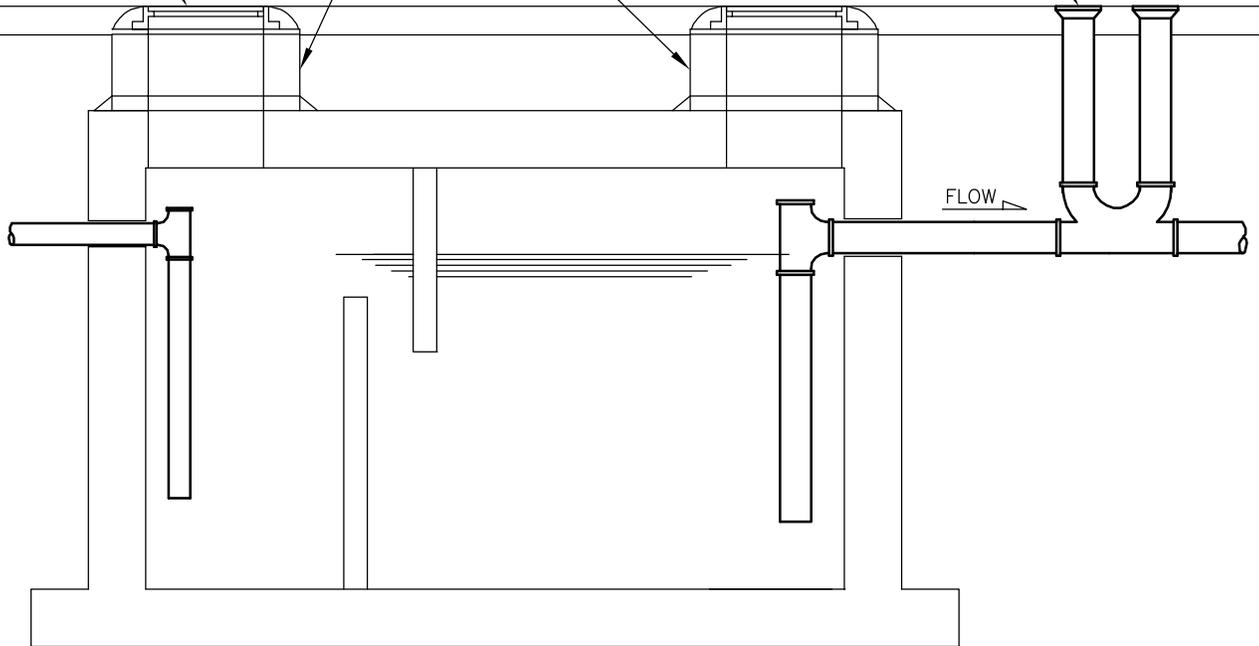
**S-5**

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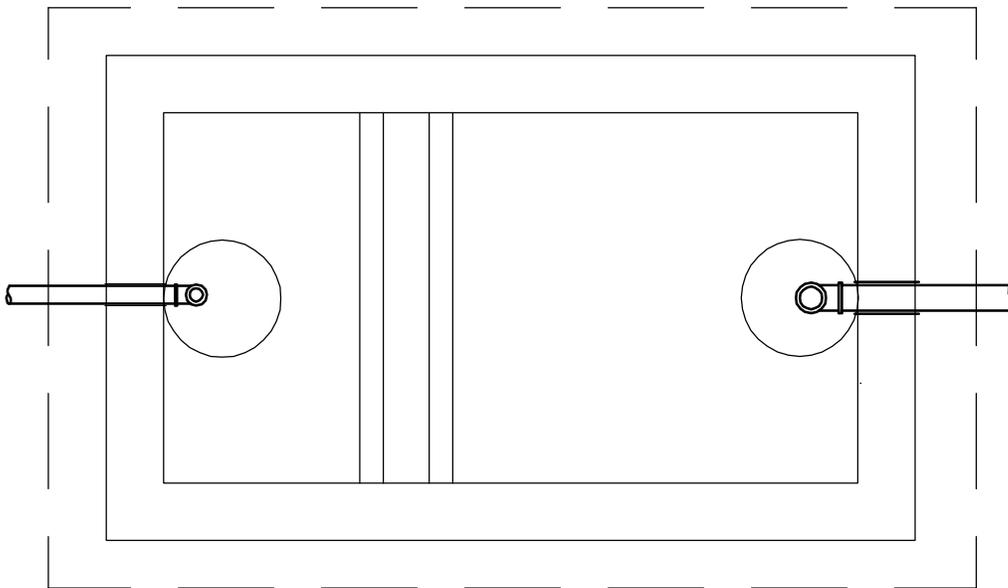
FRAME AND COVER,  
SEE DETAIL S-4

INSTALL RAMNECK SEALANT  
UNDER FRAME. HEAT SEALANT  
BEFORE INSTALLATION TO  
IMPROVE SEAL

2-WAY CLEANOUT



SECTION



PLAN

NOTES

1. BACKFILL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS. IF RISERS ARE NOT PLUMB, CONTRACTOR SHALL RESET.
2. SET EACH ADJUSTING RING IN A FULL BED OF BITUMINOUS MASTIC (RAMNECK SEALANT).
3. 12" BITUMINOUS SHEETING (CONWRAP OR EQUAL) SHALL BE INSTALLED ON ALL MANHOLE JOINTS OVER BITUMINOUS TACK COAT.

WINTER PARK WATER AND  
SANITATION DISTRICT

**GREASE INTERCEPTOR**

DATE: 7/22/2009

**S-6**

## Exhibits

EXHIBIT A

<u>Use</u>	<u>ESFU Assessment</u>
Detached Home/Townhome/Duplex/Manufactured Home (up to 3 bedrooms, 2 bathrooms, 1 kitchen)	
-Three bedrooms or less	1.00
-Each bedroom in excess of three	0.20
-Each bathroom, or portion thereof, in excess of two	0.20
-Each kitchen in excess of one	0.50
-Hot tub	0.20
Apartment or Condominium (each unit up to 2 bedrooms, 2 bathrooms, 1 kitchen)	
-Two bedrooms or less	1.00
-Each bedroom in excess of two	0.32
-Each bath, or portion thereof, in excess of two	0.32
Studio Apartment /Affordable Housing Unit/Divisible Unit	
-Single room less than 650 square feet with one bathroom	0.70
Lodge, Hotel, Motel - per rental room	0.60
Restaurant, Lounge, Snack Bar, Delicatessen	
-500 square feet or less	1.00
-Each square foot in excess of 500 square feet	0.003
Movie Theater - per seat	0.02
Automobile Service Station - without car wash	
-Four fuel nozzles or less	1.50
-Each fuel nozzle in excess of four	0.20
Automobile Service Station/Retail Combination - without car wash	
-Four fuel nozzles or less	1.50
-Each fuel nozzle in excess of four	0.20
-Retail space per 1,000 square feet	0.50
Self-Service Laundromat - per washing machine	1.30
Beauty Salon/Hairdresser - per station	0.35
Fire Station, Maintenance Building, Warehouse - per 1,000 square feet	0.15
Office/Office Building - per 1,000 square feet	0.75
Retail Store - per 1,000 square feet	0.50
Ski Rental Shop - per 1,000 square feet	0.75
Doctor Office, Dentist Office - per 1,000 square feet	1.00
Undesigned Commercial Space - per 1,000 square feet	0.50
School	
-Without cafeteria or showers - per student	0.04
-With cafeteria, gym and/or swimming pool - per student	0.06
Day Care Center - per unit of child care capacity	0.04
Church, Conference/Meeting/Banquet Room (and similar facilities without in-house food serving capabilities - per 1,000 square feet)	0.30
Church, Conference/Meeting/Banquet Room (and similar facilities with in-house food serving capabilities - per 1,000 square feet)	0.40
Ski Area, summation of ESFUs from other applicable use categories plus 85% of total hourly lift capacity times	0.001
Health Spa/Fitness Center - per 1,000 square feet	1.50
Bowling Alley	0.50
Travel Trailer Park	
-Without individual water and sewer hookups - per space	0.20
-With individual water and sewer hookups - per space	0.25
Car Wash (coin operated) - per stall	2.00

EXHIBIT A

Notes:

- 1) The 1.00 ESFU is based on usage of 350 gallons of water per day. If usage is beyond reasonable and customary, the District reserves the right to re-evaluate the assessment.
- 2) The minimum ESFU assessment per account will be .5 tap.
- 3) Other types of assessment will be determined by the Board based on projected use.
- 4) Combinations of above are additive.
- 5) A Divisible Unit (listed above with Studio and Affordable Housing) is defined as a single living unit which contains rooms or areas which can be used independent of the remainder of the dwelling, such as having separate entrances, stairways, or lock-off potential.
- 6) A Loft (or mezzanine) shall be considered as one bedroom for the purpose of assessment calculation. A loft is defined as an intermediate floor placed in any story or room not to exceed 33% of the total floor area in that room (according to Uniform Building Code).
- 7) The above schedule does not address all amenities which may be contained in a building (for example swimming pool, handball courts, tennis courts, exercise rooms, spas, hot tubs) or common elements (for example drinking fountains, public restrooms, lounge areas) which benefit owners, residents and guests. These will be considered for assessment on a case-by-case basis.
- 8) Irrigation is defined as exterior use of water for landscaping watering. See General Section 4, Item C for more detailed information on Irrigation.
- 9) Monthly service fees are to be paid year round, and start the first of the month after tap fee payment is due. An allowance is made for a construction period; the District will charge one-half the regular monthly service fee rate for the first six-month period, or when the Certificate of Occupancy is issued, whichever ever comes first. Then, regular monthly service fee rates will take effect.



WINTER PARK WATER and SANITATION DISTRICT

P. O. Box 7

Winter Park, CO 80482

Office Phone: 970-887-2970

**FEE SCHEDULE**

**PLAN REVIEW FEE**

Detached Home/Townhome/Duplex/Manufactured Home – No Charge

Multi-Family Structure - \$500 (due upon plan submittal)

Multi-Lot Commercial Development - \$500 for initial review; \$250 for each re-review  
(due upon plan submittal)

Previously submitted plans which are the same design as an existing building - \$125  
(due upon plan submittal)

**PLANT INVESTMENT (TAP) FEES**

Water

Cost per Equivalent Single Family Unit \$11,550

Wastewater

Cost per Equivalent Single Family Unit \$11,550

One (1) ESFU = a detached single family home/townhome/duplex/manufactured home with up to three bedrooms, two bathrooms, one kitchen.

Water and wastewater service fees will be invoiced monthly starting the first of the month following payment of the Plant Investment Fee. As a provision for construction, monthly minimum service fees will be reduced to one-half the rate shown below for the first six month period, or when the Certificate of Occupancy is issued, whichever comes first.

**SERVICE FEES (monthly)**

Water

Residential: \$33.50/ESFU/month minimum charge for up to 4,000 gallons

Commercial: \$16.75/ESFU/month minimum charge for up to 2,000 gallons

Charge for Additional Water used over the minimum: \$3.00/1,000 gallons

Wastewater

Residential and Commercial: \$39.00/ESFU/month

Plant Investment Fees, Service Fees, and other charges are subject to change by the Board of Directors without notice.

Winter Park Water & Sanitation District  
**Application for Water and Wastewater Service**

Name of Owner
Property Address
Legal Description
Mailing Address
Phone

	Approximate Dates
Building Permit Request	
Utility Construction	
Occupancy (commence water/wastewater service)	

Attach plans and specifications for the proposed building. See Exhibit B (Fee Schedule) for Plan Review Fees.

Any change or modification of plans and specifications require District approval prior to construction.

For projects other than a single family dwelling, the owner/developer/builder should contact District personnel. Most likely, the only plans and specifications required will be site plan, floor plan, elevation, plumbing and irrigation plans.

Construction record drawings must be provided to the District after construction is complete.

**A G R E E M E N T**

In consideration of the granting of this water and wastewater service, the undersigned acknowledges and agrees:

- 1) To accept and abide by all provisions of Rules and Regulations of the District, including payment of water and wastewater tap fees prior to issuance of building permit by Town of Winter Park. Owner acknowledges that monthly water and wastewater service fees begin the first of the month following payment of tap fees. A reduced minimum service fee for a construction period is outlined in Exhibit B under Plant Investment Fees. Service fee invoices are mailed the first of each month with payment due by the 20<sup>th</sup> of that month.
- 2) To notify District staff when service lines are ready for inspection and connection to District facilities, and not to cover any portion of the work until the District has made an inspection.
- 3) To maintain water and wastewater service lines at no expense to the District. Service lines include the valve at the District’s water main and the curbstop valve, and from there into the property. The meter assembly is a part of your service line, and includes the ‘Y’ strainer, pressure-reducing valve, and backflow preventor. (District retains ownership of the actual meter.)
- 4) If a backflow preventer is installed, it must be inspected and tested when it is installed, and annually thereafter. The District must receive a copy of the inspection report.

Owner Signature	Date
Owner Signature	Date

*Return this completed form to the District at P. O. Box 7, Winter Park, CO 80482*

Rev 8/03

## Service Area Definition

The following descriptions indicate the basis for the delineation of the Winter Park Water and Sanitation District Service Area boundary shown on the following map.

- A Mary Jane Placer
- B US Forest Service Trade Parcel Tract 43
- C US Forest Service Trade Parcel Tract 41
- D US Forest Service Trade Parcel Tract 42A, 42B, 42C, 42D
- E Town of Winter Park Triangle Subdivision Exemption
- F Lakota Ridge - US Forest Service Trade Parcel Tract 48
- G Raintree Inn - US Forest Service Trade Parcel Tract 46A, 46B, 47
- H City Land Parcel
- I US Forest Service Trade Parcel Tract 44
- J Service to WPRA Mary Jane Shop Buildings
- K Service extension for WPRA Sunspot Facility
- L Service extension for WPRA Snoasis Facility
- M Service extension for WPRA Lunch Rock Facility



NOT TO SCALE

TOWN OF FRASER  
TO GRANBY

DOWNTOWN WINTER PARK

WINTER PARK SKI AREA BASE

US 40  
FRASER RIVER

DISTRICT SERVICE AREA

TO BERKHOFF PASS AND I-70

WINTER PARK WATER AND SANITATION DISTRICT BOUNDARY

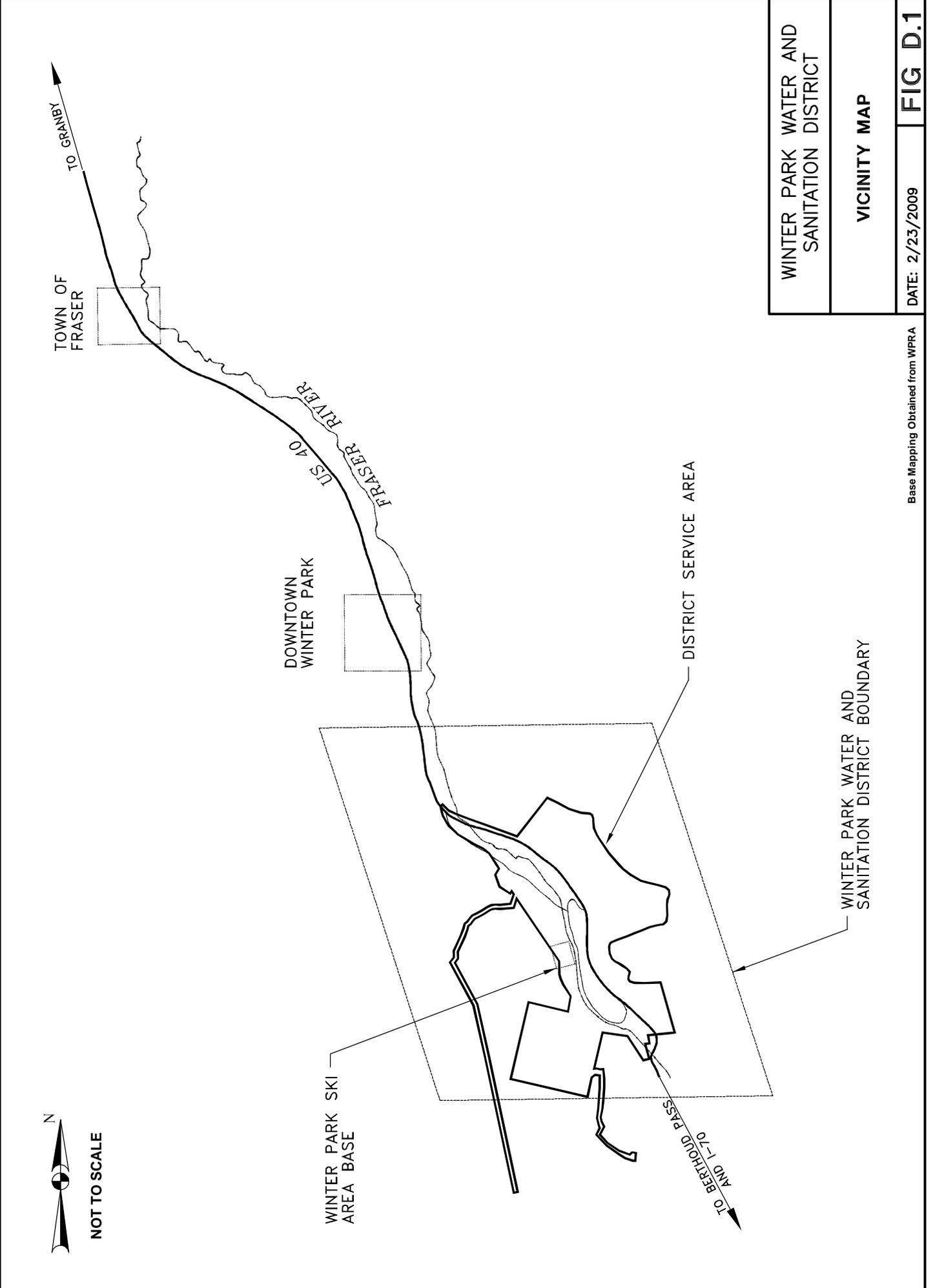
WINTER PARK WATER AND SANITATION DISTRICT

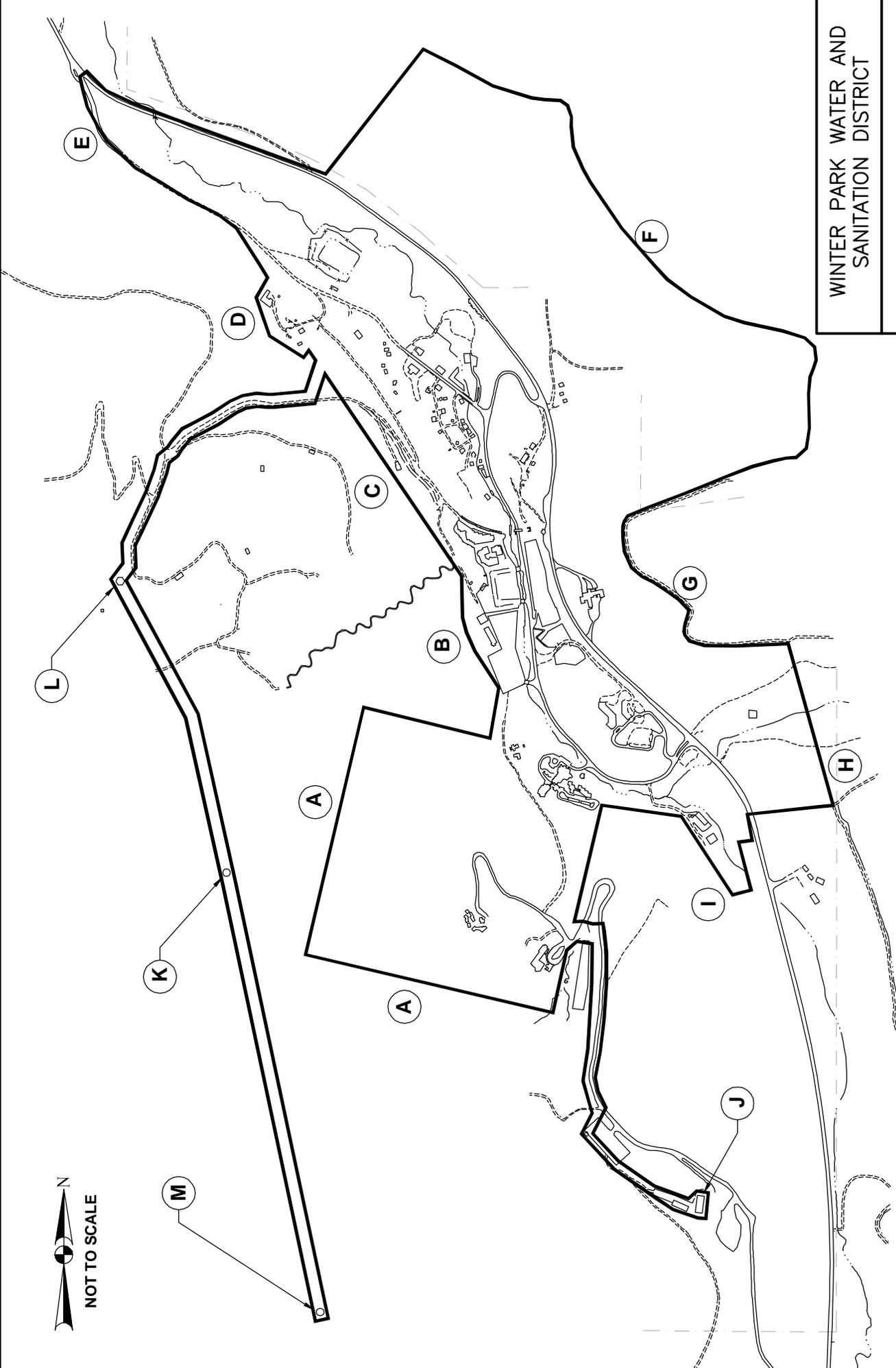
VICINITY MAP

DATE: 2/23/2009

FIG D.1

Base Mapping Obtained from WPRA





WINTER PARK WATER AND  
SANITATION DISTRICT

SERVICE AREA MAP

DATE: 3/24/2009

Base Mapping Obtained from WPPRA

FIG D.2

**Application for Water and Sewer Main Plan Review**

Name of Owner
Property Address
Legal Description
Mailing Address
Phone

	Approximate Dates
Building Permit Request	
Utility Construction	
Occupancy (commence water/wastewater service)	

1. Attach plans and specifications for proposed water and/or sewer mains.
2. See Exhibit B (Fee Schedule) for Plan Review Fees.
3. Applicant is referred to Section I-Construction Procedure, Part H Ownership.
4. The plan review, construction phase, construction inspection, and construction approval process will follow this general guideline.
  - a. Applicants will submit a signed Application for Water or Sewer Main Plan Review along with complete plans, specifications, and design report package. Application must be signed by the property owner. The District will review the plan review package and subsequent revisions until the plans are approved.
  - b. Prior to construction, Owner will arrange a pre-construction meeting to review the project, construction requirements, District inspection requirements and general requirements for coordination between the project stakeholders. Required attendees include the property owner, developer, general contractor, water and sewer utility contractor, and District.
  - c. As described in the Rules and Regulations, all water and sewer main construction must be inspected by the District.
  - d. Upon substantial completion of the water and sewer main construction, Owner shall submit to the District a signed Certificate of Substantial Completion along with the required documentation.
  - e. Upon final completion of the water and sewer main construction, Owner shall submit to the District a signed Certificate of Final Completion along with the required documentation.
  - f. Transfer of ownership of water and sewer mains to the District will not occur until the District concurs that the Property Owner has reached Final Completion of the work.
5. Any change or modification of plans and specifications require District approval prior to construction.
6. Construction record drawings must be provided to the District after construction is complete.

**Application for Water and Sewer Main Review (con't)**  
**A G R E E M E N T**

In submitting this Application for Water or Sewer Main Plan Review, undersigned acknowledges and agrees:

- 1) To accept and abide by all provisions of Rules and Regulations of the District.
- 2) To pay plan review fees at the time plans are submitted for review, including payment of fees for second and subsequent reviews.
- 3) Acknowledges the District policies and procedures described in the Rules and Regulation and the plan review, construction and acceptance procedures summarized in part 4 above.

Owner Signature	Date
Owner Signature	Date

*Return this completed form to the District at P. O. Box 7, Winter Park, CO 80482*

**Certification of Substantial Completion  
Water and Sewer Main Construction**

Name of Owner
Property Address
Legal Description
Mailing Address
Phone

The Owner certifies that the Work is Substantially Complete under the Contract Documents or to the following specified parts thereof (attach additional pages as necessary):

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The Owner has identified the following items which still need to be completed (attach additional pages as necessary):

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.....

The District has reviewed the Work to which this Certificate applies, that it has been inspected by authorized representatives of the District, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on this date of:

Date: \_\_\_\_\_

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in the list does not alter the responsibility of OWNER and CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by OWNER and CONTRACTOR within 15 Contract days of the above date of Substantial Completion.

OWNER and CONTRACTOR shall maintain all contractual responsibilities until Final Acceptance.

The following documents are attached to and made a part of this Certificate of Substantial Completion:

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This certificate does not constitute an acceptance of Work or start of the guarantee period nor its release of OWNER and CONTRACTOR'S obligation to complete the Work in accordance with the Contract Documents. Issuance of Substantial Completion does not commence the guarantee period with this certificate.

OWNER

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

CONTRACTOR

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

Winter Park Water and Sanitation District

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

**Certification of Final Completion  
Water and Sewer Main Construction**

Name of Owner
Property Address
Legal Description
Mailing Address
Phone

The Owner certifies that the Work has achieved Final Completion under the Contract Documents and forwards the following documentation:

1. Record Drawings
2. Owner's manuals
3. Documentation of transfer of title to mains and associated appurtenances and equipment
4. Documentation of transfer of property having been duly recorded
5. Documentation of Recorded Easements
6. Title Commitment and Title Insurance for property containing easements
7. Verification of payment in full of all plan review fees

.....  
.

The District has reviewed the Work to which this Certificate of Final Completion applies, that it has been inspected by authorized representatives of the District, and that Work is hereby declared to be complete in accordance with the Contract Documents and the required documentation has been received on this date of:

Date: \_\_\_\_\_

This certificate constitutes an acceptance of Work and the start of the guarantee period

WINTER PARK WATER AND SANITATION DISTRICT

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

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District Equipment & Personnel Charges

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Laborer	\$35.00/hour
Supervisor	\$50.00/hour
Truck	\$50.00/hour
Miscellaneous Equipment (pump, generator, etc.)	\$20.00/hour
Materials and/or Rental Equipment will be charged at invoiced cost, plus 10%.	
Filling Water Trucks	\$10.00/1,000 gallons

## SCHEDULE

- A. Present at the conference to represent the Contractor shall be at least the official in charge of the Project, the project superintendent, a representative with authority to speak for each of his principle Subcontractors, and other representatives as he may deem expedient.
- B. The developer and/or his representatives shall be present as required.
- C. Proceedings of meeting to be recorded by the District and distributed to interested parties.

## AGENDA

The District, developer, and contractor shall be prepared to speak to the following as a minimum:

1. Name and Field Address of job contactors, developer, District
2. Emergency Phone and/or operator
3. Date of Construction Start
4. Date of Notice to Proceed
5. Meter size
6. Pipe size
7. Meter readout location
8. Construction water
9. Trench maintenance
10. Trench dewatering
11. Concrete formwork required
12. Trench compaction requirements
13. Only District operates valves and hydrants
14. Disposal of chlorinated water
15. Inspection of all joints, bedding and thrust blocks before backfill
16. Concrete cure time (24 hours)
17. Clean pipe – cap to keep dirt out.
18. Notification of Utilities Concerned Fire, Police, Schools, etc.
19. Coordination with other contractors
20. Permits: County, City, Government Agencies as required
21. Inspector: name, authority
22. Shop Drawing Submittals
23. Construction progress schedule
24. Safety Requirements and Special Hazards
25. Traffic Control
26. Construction Signs
27. Drawings revised to conform to construction records
28. Beneficial occupancy
29. Retention of Contract records
30. Guarantees and warranties
31. Operation and Maintenance Manuals
32. Project Signs
33. Pipe testing requirements, reporting, and responsibility
34. Periodic Progress Meetings
35. Other matters concerning construction

## MEETINGS

- A. Schedule regular progress meetings as required by the District and contractor at mutually agreed time.
- B. Hold called meetings as progress of Work dictates.
- C. Location of meetings: As designated during Preconstruction Conference.
- D. Attendance:
  - 1. Engineer and/or his Consultants
  - 2. Owner (optional)
  - 3. Contractor
  - 4. Other contractors (if any)
  - 5. Subcontractors as pertinent to agenda
  - 6. Safety Representative (Optional)
  - 7. Representatives of Governmental or other Regulatory Agencies (when appropriate)

## MINIMUM MEETING AGENDA:

- 1. Review, approve minutes of previous meeting.
- 2. Review work progress since last meeting. Contractor shall identify each specific work item completed, and compare to planned progress from previous meeting.
- 3. Note field observations, problems and decisions.
- 4. Identify problems which impede planned progress.
- 5. Review off-site fabrication problems.
- 6. Develop corrective measures and procedures to regain planned schedule.
- 7. Revise Construction Schedule as indicated.
- 8. Plan progress during next two week work period.
- 9. Coordinate projected progress with other contractors.
- 10. Review submittal schedules.
- 11. Maintaining of quality and work standards.
- 12. Review changes proposed by Owner.
- 13. Complete other current business.