

	RIGHT OF WAY
	PERMANENT EASEMENT
	PROPERTY LINE
	HORIZONTAL CONTROL POINT
	BENCHMARK
	SURVEY MARKER
	SOIL BORING
	SANITARY SEWER AND MANHOLE
	FORCE MAIN AND LIFT STATION
	SANITARY SEWER SERVICE & CLEANOUT
	WATER MAIN, HYDRANT, VALVE AND MANHOLE
	WATER SERVICE AND CURB STOP BOX
	STORM SEWER, MANHOLE AND CATCH BASIN
	CULVERT AND APRON ENDWALL
	GAS MAIN, VALVE, VENT AND METER
	HANDHOLE
	BURIED FIBER OPTIC CABLE AND MANHOLE
	BURIED PHONE CABLE, PEDESTAL AND MANHOLE
	BURIED TV CABLE, PEDESTAL AND MANHOLE
	BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER
	OVERHEAD WIRE, POLE AND GUY WIRE
	LIGHT POLE
	TRAFFIC SIGNAL
	STREET NAME SIGN
	SIGN (NON STREET NAME)
	RAILROAD TRACKS
	DECIDUOUS AND CONIFEROUS TREE
	BUSH / SHRUB AND STUMP
	EDGE OF WOODED AREA
	WETLAND
	BUILDING
	FENCE (UNIDENTIFIED)
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	ELECTRIC WIRE FENCE
	WOOD FENCE
	WOVEN WIRE FENCE
	PLATE BEAM GUARDRAIL
	CABLE GUARDRAIL
	POST / BOLLARD
	RETAINING WALL

	STREET CENTERLINE
	RIGHT-OF-WAY
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	CONSTRUCTION LIMITS
	SANITARY SEWER, BULKHEAD AND MANHOLE
	FORCE MAIN
	SANITARY SERVICE AND CLEANOUT
	WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE
	WATER VALVE MANHOLE, REDUCER, BEND AND CROSS
	WATER SERVICE AND CURB STOP BOX
	STORM SEWER, MANHOLE AND CATCH BASIN
	CULVERT AND APRON ENDWALL
	DRAIN TILE
	DITCH / SWALE
	RIPRAP
	STREET NAME SIGN
	SIGN (NON STREET NAME)
	RETAINING WALL

BENCHMARK IS BY GPS OBSERVATION NAVD 88. SET SITE BENCHMARK AT NORTHWEST CORNER OF INLET ON CHAMBERS RD. APPROXIMATELY 200'+/- NORTH OF HESS RD.

This map shows the project location in relation to the Reuter-Hess Reservoir and surrounding roads. The project location is marked with a black dot and labeled 'PROJECT LOCATION'. It is situated near Hess Road and Oak Gulch. Other roads shown include E Mainstreet, S Chambers Road, Newlin Gulch, Stroth Road, Crowfoot Valley Road, Twenty Mile Road, Cherry Creek, and S Parkes Road. A scale bar indicates distances up to 2000 feet, and a north arrow is provided for orientation.

DESCRIPTION	UNIT	QTY
6" SDR 35 SANITARY SEWER SERVICE PIPE	LF	277
1600 GAL COMMERCIAL GREASE INTERCEPTOR	EACH	1
SAMPLING MANHOLE	EACH	1
TWO-WAY CLEANOUT	EACH	2
CLEANOUT	EACH	2
CONNECT TO EXISTING MAIN	EACH	1
6" DUCTILE IRON WATER MAIN	LF	233
8" DUCTILE IRON WATER MAIN	LF	178
1" COPPER SERVICE PIPE	LF	41
1 1/2" COPPER SERVICE PIPE	LF	34
FIRE HYDRANT	EACH	1
6" GATE VALVE & BOX	EACH	2
8" GATE VALVE & BOX	EACH	2
1" CORPORATION	EACH	1
1 1/2" CORPORATION	EACH	1
1" CURB STOP & BOX	EACH	1
1 1/2" CURB STOP & BOX	EACH	1
1" IRRIGATION METER	EACH	1
REDUCED PRESSURE BACKFLOW PREVENTER	EACH	1
BLOWOFF INSTALLATION	EACH	1

SHEET NUMBER	SHEET TITLE
U0.0	COVER SHEET
U0.1	GENERAL NOTES
U1.0	OVERALL UTILITY PLAN
U1.1	SANITARY SERVICE PLAN & PROFILE
U1.2 - U1.3	SANITARY SEWER DETAILS
U1.4	WATER SERVICE PLAN & PROFILE
U1.5 - U1.7	WATER DETAILS

DATE SIGNED _____



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PARKER WATER & SANITATION DISTRICT GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER, DOUGLAS COUNTY AND OTHER NEIGHBORING CITIES AND TOWNS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS CONTACT THE PWSD IMMEDIATELY.
- PWSD ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.
- ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH.
- THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF "AS-BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL BY DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE PRINTS SHALL BE TRANSMITTED TO THE PWSD OFFICE.
- NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
- SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
- ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SERVICE SEWERS
"V" FOR WATER SERVICES
- NO TREES ALLOWED IN EASEMENTS OR WITHIN 8' OF WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.

PARKER WATER & SANITATION DISTRICT WATER NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- ALL WATER MAINS SHALL BE PER PWSD MATERIALS SPECIFICATIONS. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL BE SUITABLE FOR CHLORINATED AND CHLORAMINATED WATER.
- ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED PER PWSD MATERIALS SPECIFICATIONS.
- THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
- FIRE HYDRANTS SHALL CONFORM TO AWWA C-502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES PER PWSD SPECIFICATIONS.
- ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST WITH CONCRETE THRUST BLOCKS.
- PRECAUTIONS SHALL BE TAKEN TO PROTECT THE INTERIOR OF PIPES, FITTINGS, AND VALVES AGAINST CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH WATERTIGHT PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAY'S WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS.
- VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES; WHERE AN ADDITIONAL VALVE SHALL BE PLACED ON THE TAPPING TEE. OTHER LOCATIONS SHOWN ON THE PLANS.
- WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.5 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
- THE CONTRACTOR SHALL NOTIFY THE PWSD AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START-UP, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEER 48 HOURS PRIOR TO RE-START.
- PIPE BEDDING SHALL BE A CLEAN, WELL-GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PWSD STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH THE EXCAVATION. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES.
- COMPACTION OF ALL TRENCHES MUST BE ATTAINED IN ACCORDANCE WITH THE SOILS REPORTS AND COMPACTION TEST RESULTS SUBMITTED TO THE DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR, DESIGN ENGINEER, AND REPRESENTATIVE OF OTHER APPROVING AGENCIES.
- CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PWSD SPECIFICATIONS. CHLORINATION OF FINISHED PIPELINE COMPLETED BEFORE HYDROSTATIC TESTING.
- HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PWSD SPECIFICATIONS UP TO MINIMUM OF 150 PSI IN THE PRESENCE OF A PWSD INSPECTOR/ENGINEER.

PARKER WATER & SANITATION DISTRICT SANITARY SEWER NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
- ALL SEWER MAINS SHALL BE PVC, ASTM D-3034, SDR 35 OR APPROVED EQUAL. ALL SEWER MAIN SIZE IS 8" IN DIAMETER UNLESS OTHERWISE NOTED.
- SEWER LINES SHALL BE INSTALLED 5.0 FEET SOUTH OR WEST OF STREET CENTERLINE, UNLESS OTHERWISE SHOWN ON PLANS. SEWER LINES SHALL BE 10.00 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.50 FEET VERTICALLY FROM THE WATER MAIN SHALL BE ENCASED IN CONCRETE AS PER PWSD SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT. SEWER RIM ELEVATIONS SHOWN ARE APPROPRIATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.
- THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SEWER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF SANITARY SEWER.
- NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.
- SEWER SERVICE TEES FOR EACH UNIT SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF TEES. SEWER WYES SHALL BE USED RATHER THAN TEES.
- ALL MANHOLES SHALL BE 48-INCHES IN DIAMETER WITH 24-INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67.
- AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.
- ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PWSD STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
- PRIOR TO STARTING WORK WHERE SEWER MAIN IS TO BE CONNECTED TO EXISTING PWSD SEWER SYSTEMS. THE NEAREST MANHOLE TO THE POINT OF TIE-IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL FINAL PROBATIONARY ACCEPTANCE BY PWSD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN INSTRUCTED BY THE DISTRICT.
- PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CONTRACTOR SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.



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Owner
New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
Short Elliott Hendrickson, Inc.
10901 Red Circle Drive
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Structural Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Mechanical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Electrical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

NEW HORIZON ACADEMY -
DOUGLAS 234 FILING, NO. 6
PARKER, CO

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SEH Project NHOAC 156217
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Project Status Issue Date
CONSTRUCTION SET 6/25/2021

Revision Issue		
Rev. #	Description	Date

GENERAL NOTES

U0.1

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GENERAL UTILITY NOTES

- ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE PARKER WATER & SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS THROUGH THE COLORADO ONE CALL SERVICE PRIOR TO CONSTRUCTION.
- CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.
- ANY DEVIATIONS FROM THE LOCATIONS SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- COMPLETE WORK UNDER SLICEROO DRIVE PRIOR TO ROAD IMPROVEMENTS BEING CONSTRUCTED. OTHERWISE LIMIT DISTURBANCE AND REPLACE ALL DAMAGED IMPROVEMENTS TO MATCH EXISTING.
- CONTRACTOR TO COORDINATE WITH PRIVATE UTILITY PROVIDERS (CABLE TELEVISION, TELEPHONE, GAS, ELECTRIC) REGARDING ROUTING AND SLEEVE REQUIREMENTS PRIOR TO CONSTRUCTION.
- REFER TO ELECTRICAL DRAWINGS FOR ALL ON-SITE ELECTRICAL LINE ROUTING.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL COMPLETION.
- ALL NEW UNDERGROUND FACILITIES, INCLUDING LATERALS UP TO THE BUILDING BEING SERVED, MUST BE ELECTRONICALLY LOCATABLE WHEN INSTALLED.

TOWN OF PARKER APPROVAL

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE

DATE

(NOTE - UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA 24 WHEN SUBMITTING FOR REVIEW.)

TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

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DATE

(NOTE - UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA 24 WHEN SUBMITTING FOR REVIEW.)

PROPOSED BUILDING
FFE = 6072.50

SEE MECHANICAL FOR BUILDING CONNECTION
INV = 6065.63

SEE MECHANICAL FOR BUILDING CONNECTION

INSIDE COMMERCIAL METER INSTALLATION, SEE
DETAILS AND MECHANICAL PLANS

SEE MECHANICAL FOR BUILDING CONNECTION

6" PVC ROOF DRAIN

1600 GAL COMMERCIAL GREASE INTERCEPTOR

END OF LINE BLOW-OFF INSTALLATION

SAMPLING MANHOLE

20' EXCLUSIVE PWS D
FIRE HYDRANT EASEMENT

6" D.I. WATER MAIN

48" STORM MANHOLE

8" PVC WATER MAIN

6" PVC SANITARY SEWER SERVICE

30' EXCLUSIVE PWS D EASEMENT

LOWER IRRIGATION LINE AS REQUIRED TO CLEAR FIRELINE
18" SEPARATION REQUIRED AT FIRE LINE. CENTER FIRE LINE PIPE ON CROSSING
DO NOT INTRODUCE HIGH POINTS INTO LINE

15' UTILITY EASEMENT PER
FINAL PLAT CHAMBERS & HESS FILING NO. 1

6' PEDESTRIAN ACCESS EASEMENT PER
FINAL PLAT CHAMBERS & HESS FILING NO. 1

PROPERTY LINE

SLICEROO DR.

EXISTING 8" SANITARY SEWER

EXISTING 8" WATER MAIN

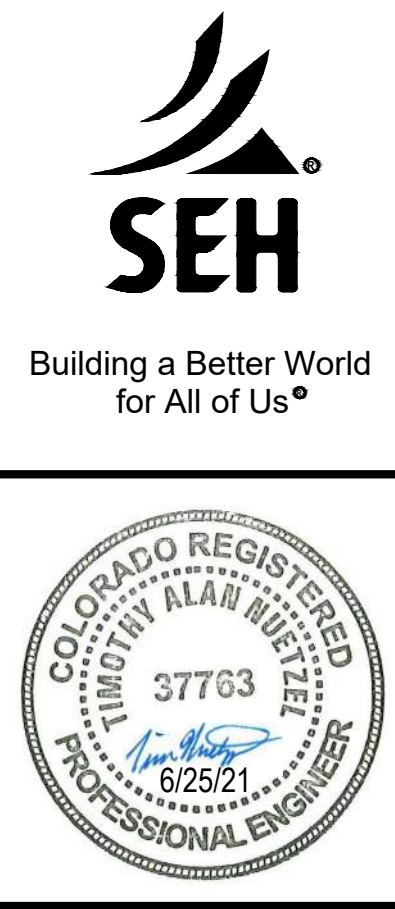
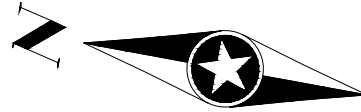
1" COPPER IRRIGATION SERVICE

TRANSFORMER PAD

5' TYPE R INLET

5' TYPE R INLET

10 0 10 20
scale feet



Owner
New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
Short Elliott Hendrickson, Inc.
10901 Red Circle Drive
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
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Structural Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Mechanical Engineer
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3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Electrical Engineer
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3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

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DRH
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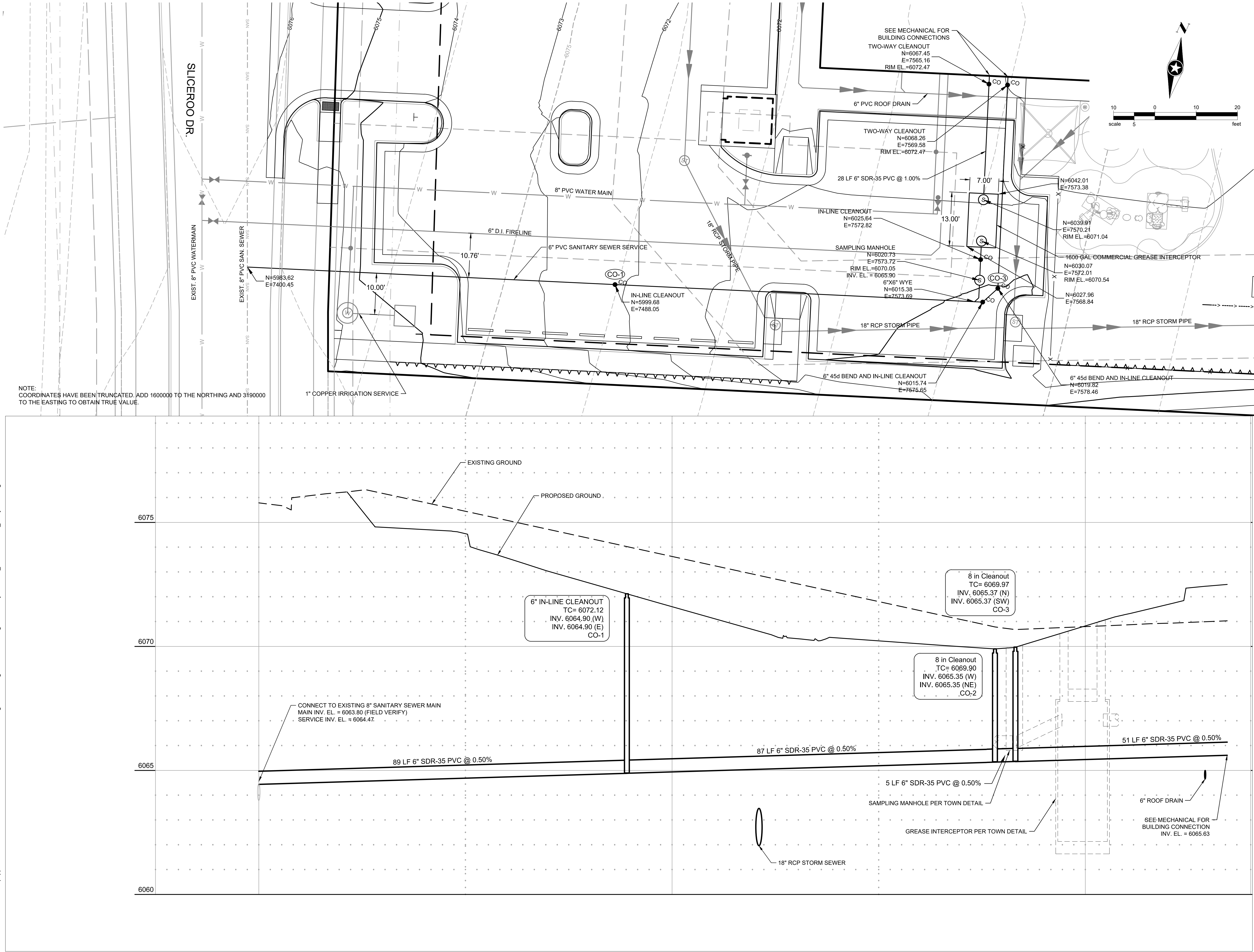
Issue Date
6/25/2021

Revision Issue
Rev. # Description Date

OVERALL UTILITY PLAN

U1.0

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Owner
New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

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Short Elliott Hendrickson, Inc.
10901 Red Circle Drive
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer
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St. Paul, MN 55110
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SANITARY SERVICE PLAN &
PROFILE

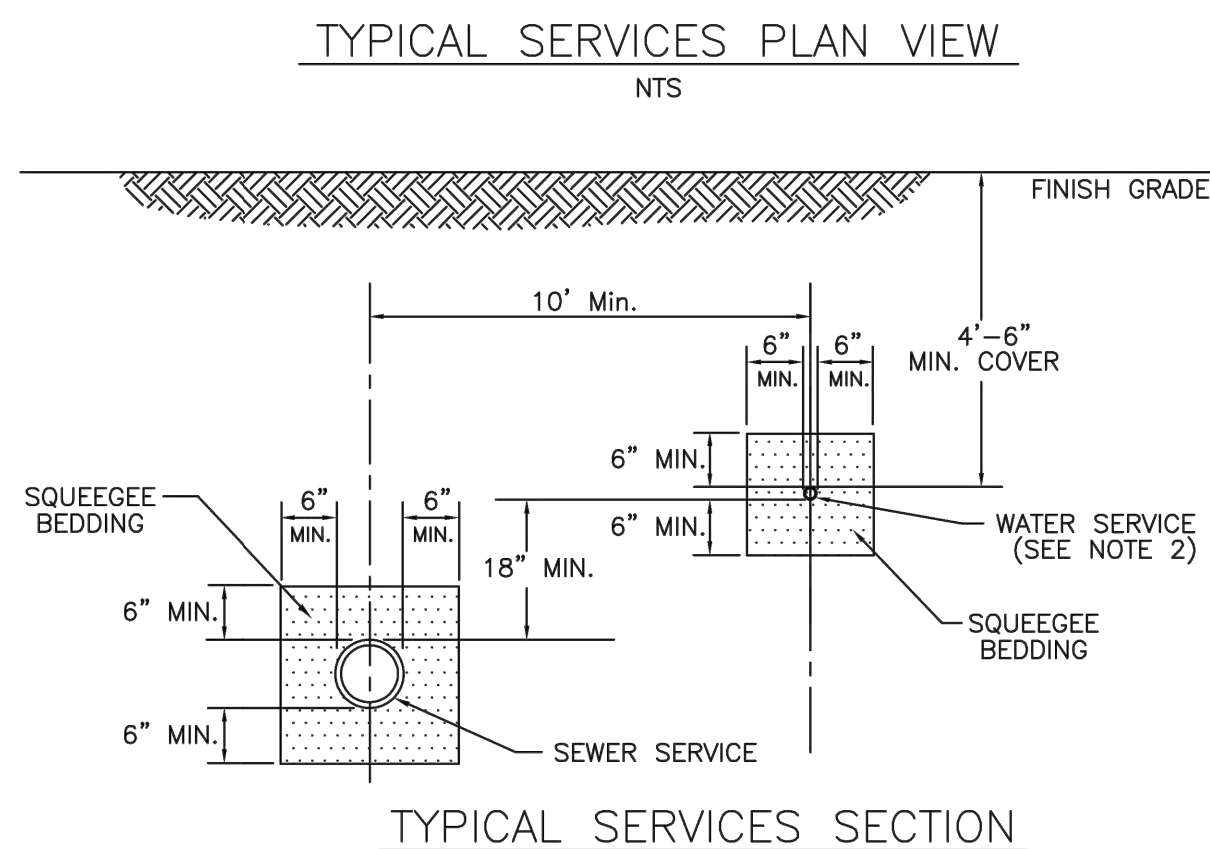
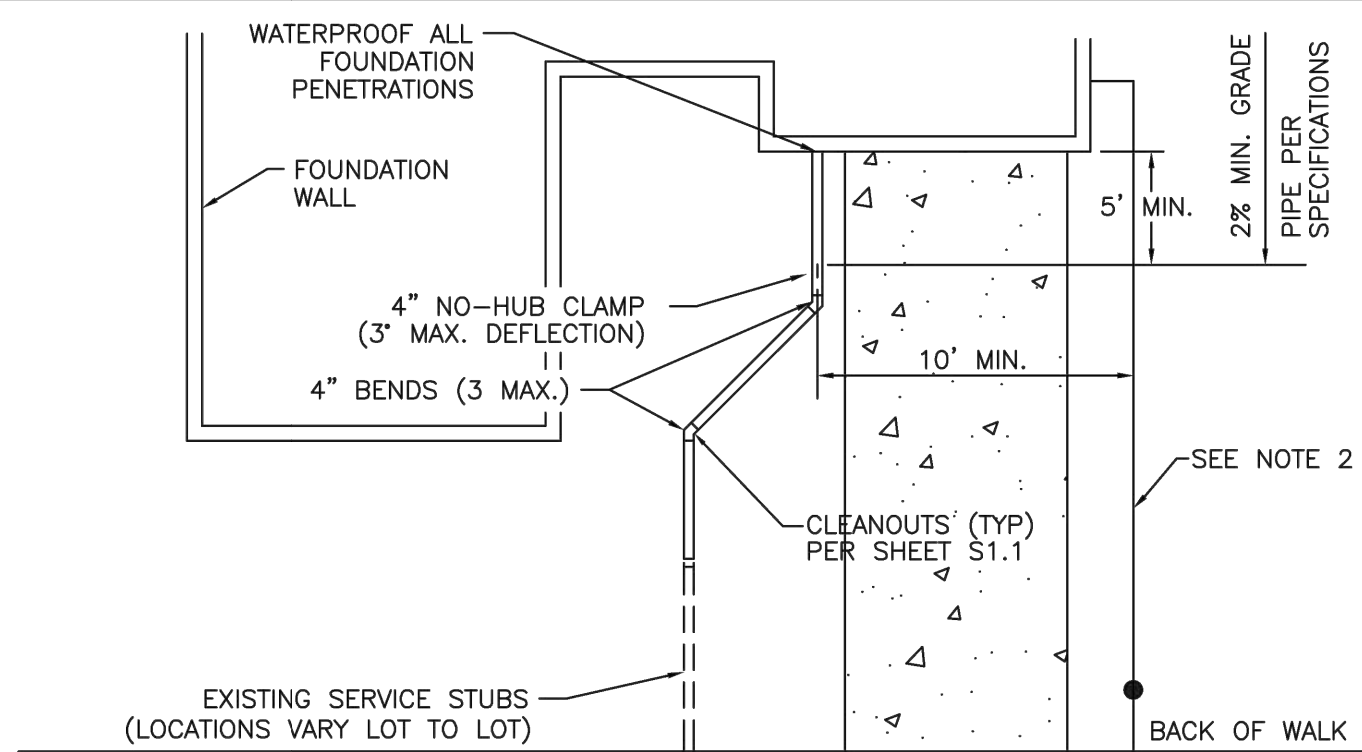
INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTE 1 ABOVE AND A RE-INSPECTION FEE CHARGED.
3. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
5. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
6. LOTS WITHOUT BUILDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
7. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

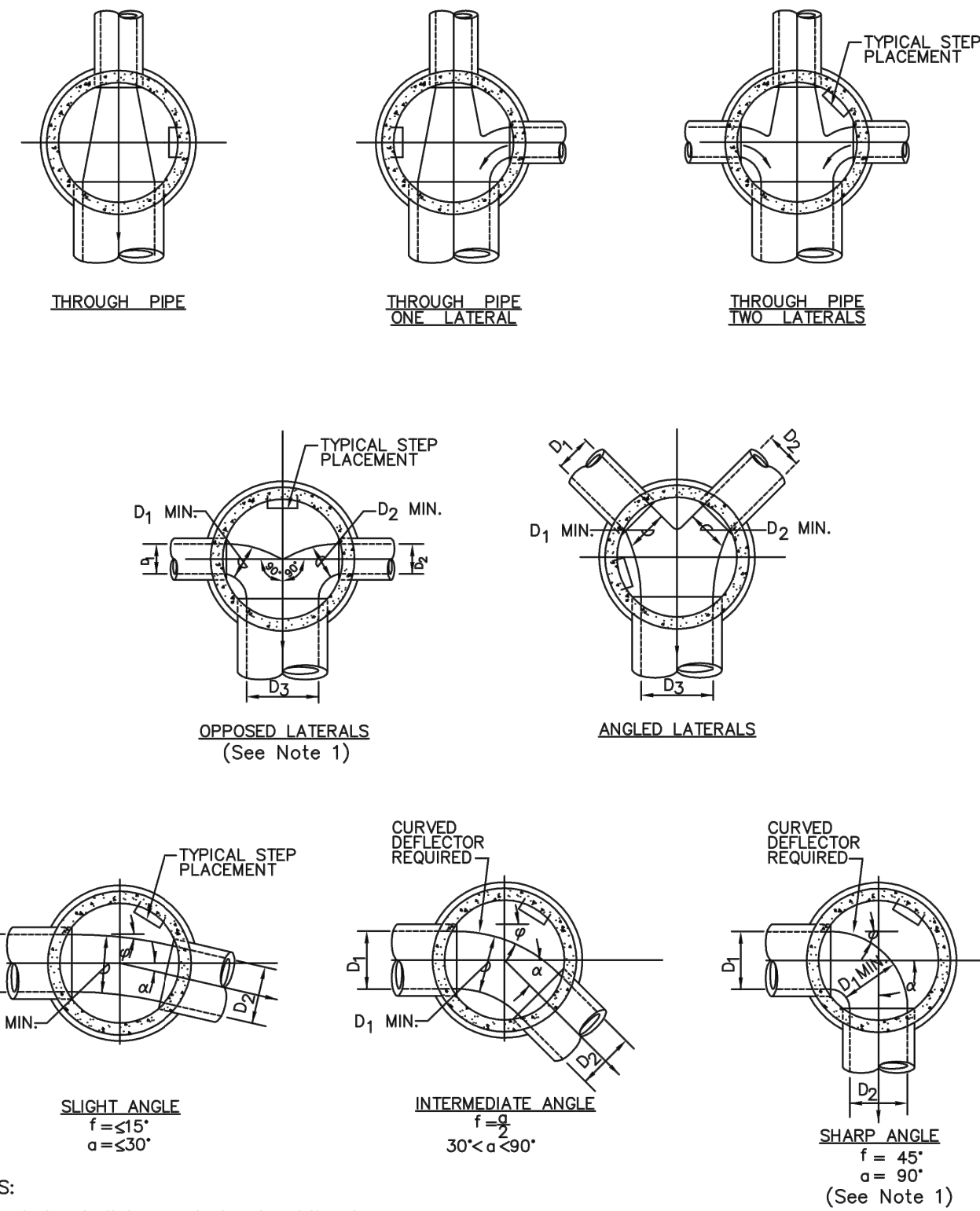
INSTALLATION NOTES:

- SEWER**
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
 2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3".
 3. MINIMUM GRADE SHALL BE 2%.
 4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
 5. CLEAN-OUTS SHALL BE INSTALLED AT 100' INTERVALS AND EVERY CHANGE IN DIRECTION. CLEAN-OUTS ARE NOT REQUIRED FOR SERVICES LESS THAN 100' UNLESS THERE ARE CHANGES IN DIRECTION. PROVIDE DUAL CLEAN-OUT WITHIN 5 FEET OF FOUNDATION.
 6. STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.
 7. SEWER SERVICE LINE SHALL NOT BE LOCATED UNDER CONCRETE SURFACE.
 8. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"V" FOR WATER SERVICES

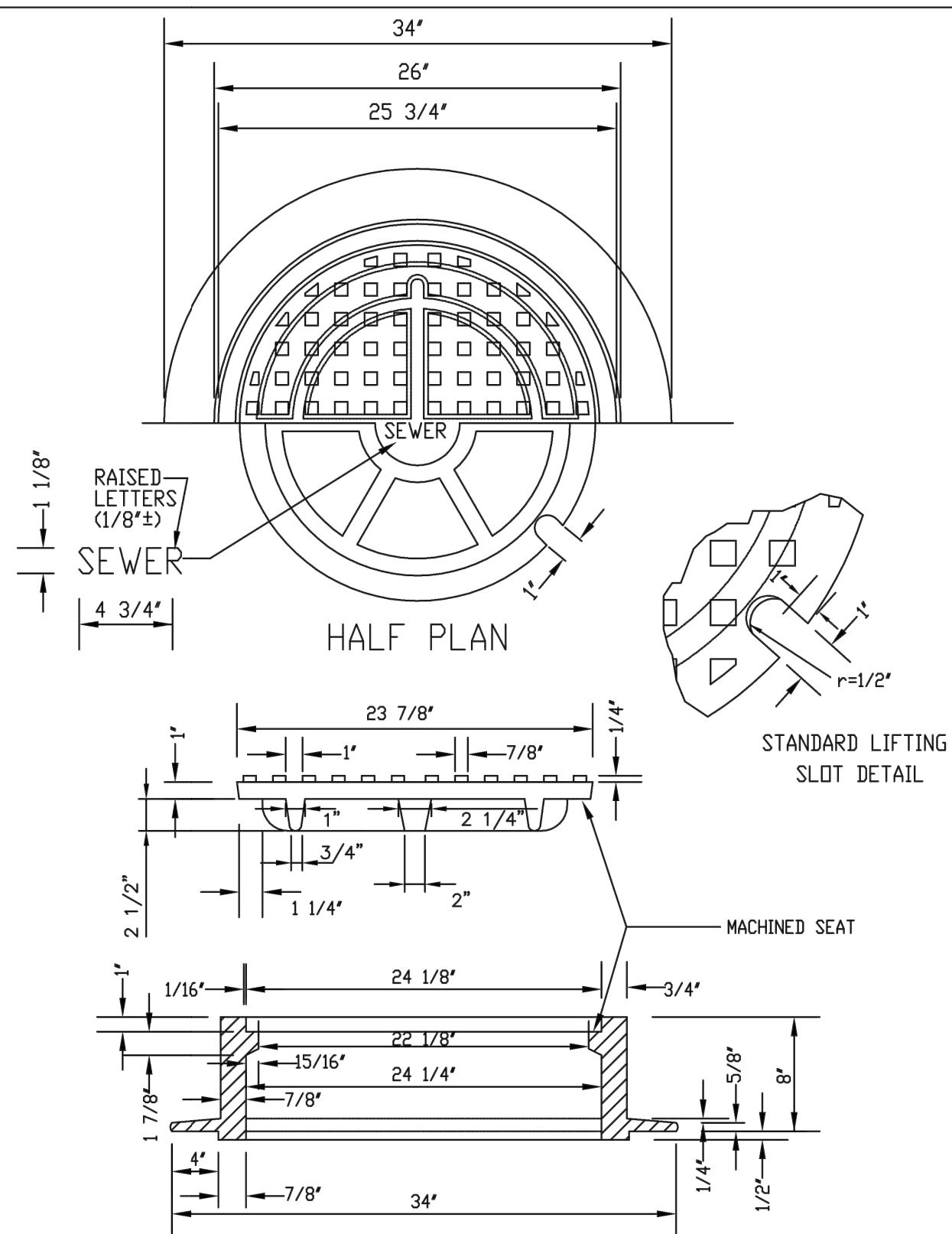
PARKER WATER & SANITATION DISTRICT			
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES			
SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/02 10/16	1/08 1/16
DIRECTOR OF ENGINEERING			



PARKER WATER & SANITATION DISTRICT			
TYPICAL SEWER SERVICES			
SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	2/00 01/02 01/16 10/16	
DIRECTOR OF ENGINEERING			

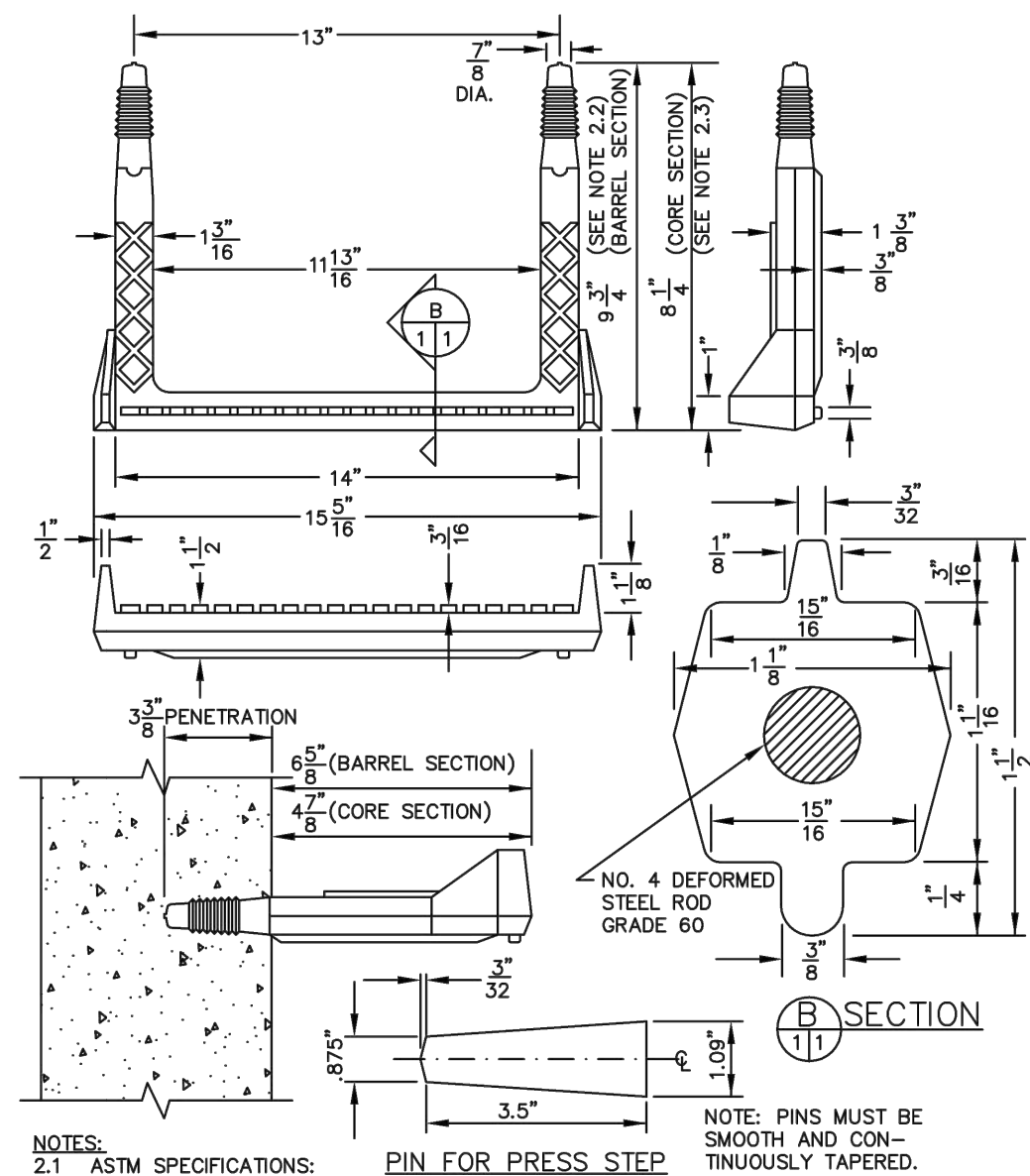


PARKER WATER & SANITATION DISTRICT			
TYPICAL BASE CHANNELIZATION DETAILS			
SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	01/16 10/16	
DIRECTOR OF ENGINEERING			



- NOTE:
1. Casting Specifications: ASTM A-48 With A Minimum Tensile Strength Of 25 KSI (Class 25)
 2. All Casting To Be Dipped In Asphalt Base Point (Or Approved Equal).
 3. No other manhole lids will be accepted without prior approval from the District Engineer.

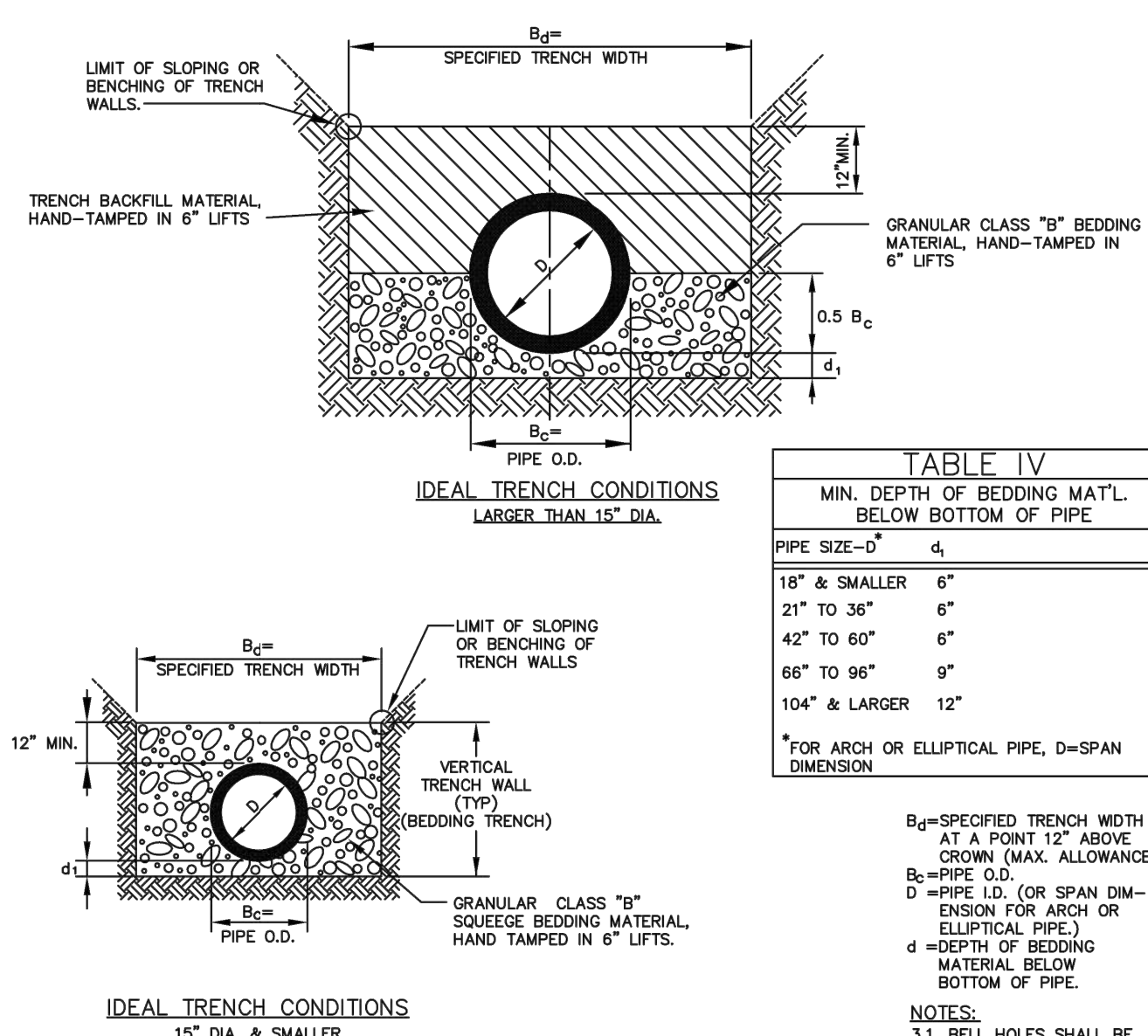
PARKER WATER & SANITATION DISTRICT	
24" DIAMETER RING AND COVER	
SCALE: <u>NONE</u>	DATE: <u>2/96</u>
APPROVED: PVR	01/16 10/16
<u>DIRECTOR OF ENGINEERING</u>	



- NOTES:
- 2.1 ASTM SPECIFICATIONS:
a) ASTM C-478
b) ASTM A-515 GRADE 60 (STEEL ROD)
c) ASTM 2146-69, TYPE II, GRADE 16906 (POLYPROPYLENE)
 - 2.2 STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 3/4 INCH LEG AND SHALL PROJECT FROM THE WALL 6-5/8 INCHES.
 - 2.3 STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8 INCHES.
 - 2.4 ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8 INCHES.
 - 2.5 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN.
 - 2.6 INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 P.S.I. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
 - 2.7 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.

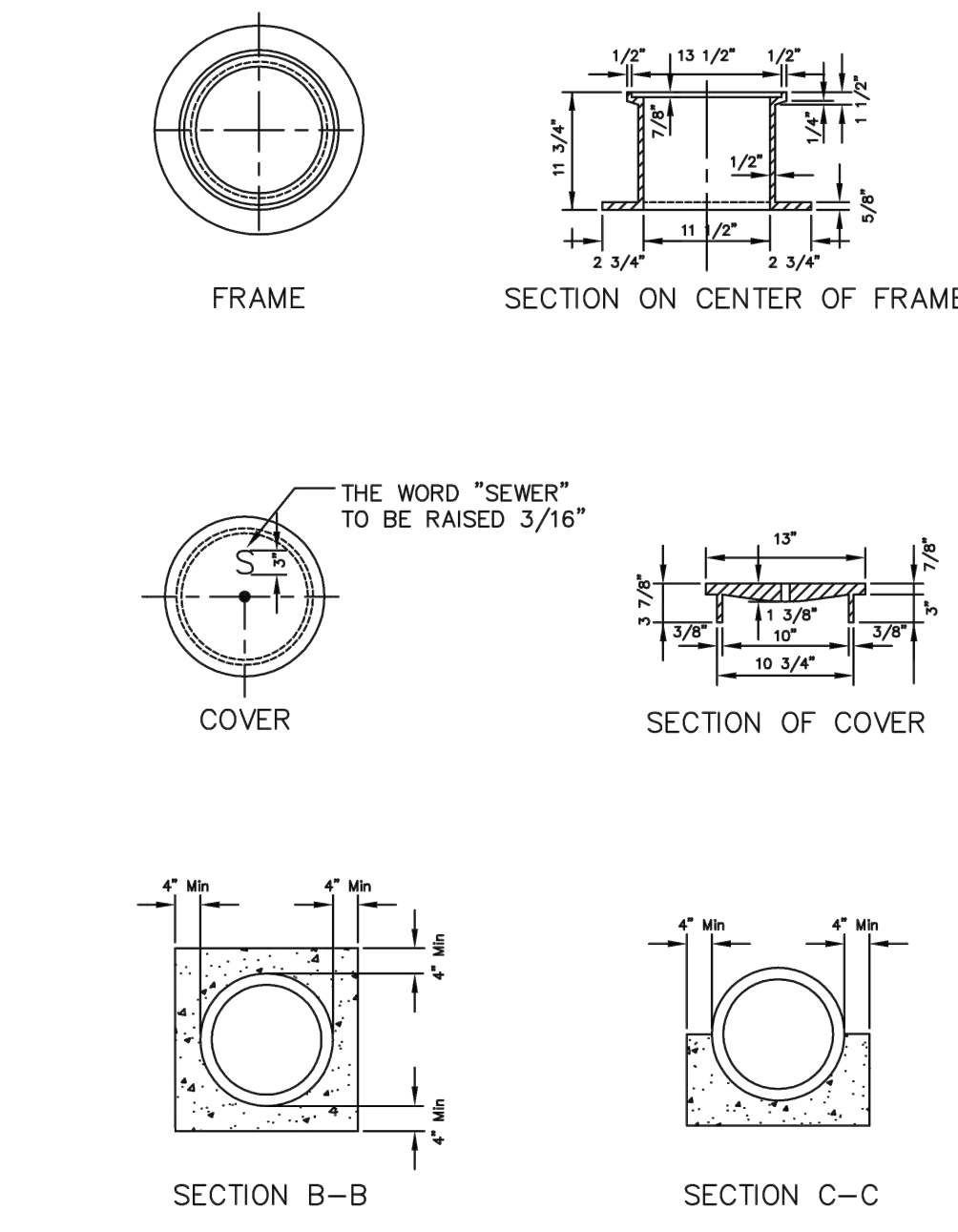
POLYPROPYLENE REINFORCED PLASTIC STEP

PARKER WATER & SANITATION DISTRICT			
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP			
SCALE:	NONE	DATE:	2/00
APPROVED:	PVR	01/16 10/16	
DIRECTOR OF ENGINEERING			

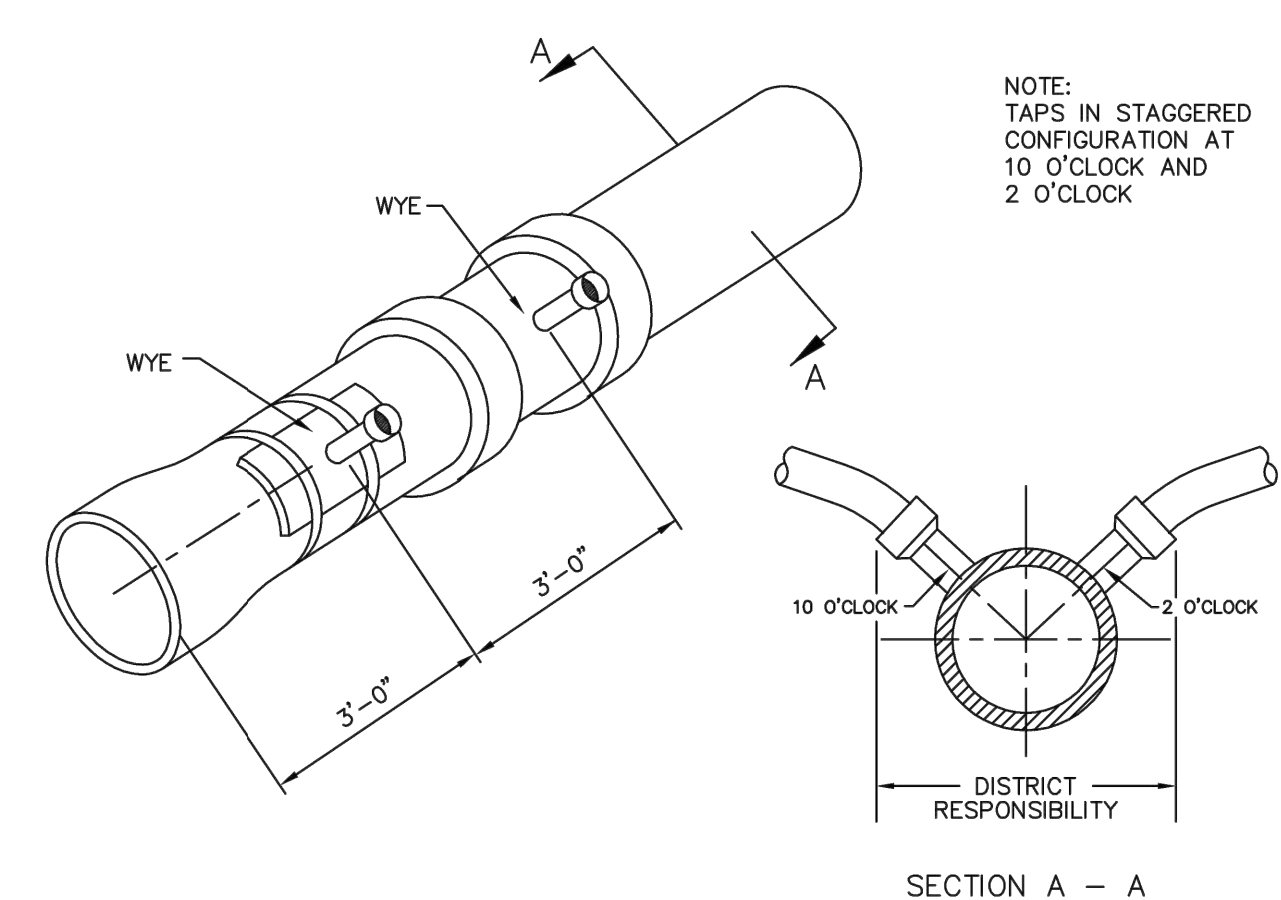


- GENERAL NOTES:
- G-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS EMBANKMENT OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.
 - 3.1 BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.
 - 3.2 BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-160 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

PARKER WATER & SANITATION DISTRICT			
TRENCHING AND BEDDING CLASS "B"			
SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	5/98 2/00 1/16 10/16	
DIRECTOR OF ENGINEERING			



PARKER WATER & SANITATION DISTRICT			
IN-LINE CLEANOUT SECTIONS			
SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	2/00 1/08 1/16 10/16	
DIRECTOR OF ENGINEERING			



Sewer service connections shall be positioned at either the 2 o'clock or the 10 o'clock position on the circumference of the sewer main. On new installations, tee or wye fittings shall be used. When tapping into existing sewer main, a saddle connection and approved coring method shall be used. The minimum distance between service connections made along the pipe shall be 3 feet. The minimum distance from either the bell or spigot end of a pipe shall be 3 feet. The minimum distance from the center of a manhole to a service connection shall be either 7 feet or the transition point from the manhole trench to the normal pipe trench, whichever is greater. A maximum of 4 sewer service connections shall be allowed per 20 foot length of pipe. In all cases, a specific soils investigation should be conducted to assure that the external loading will be within allowable limits regardless of the number of taps involved.

DOMESTIC SEWER TAPPING DETAIL

PARKER WATER & SANITATION DISTRICT			
DOMESTIC SEWER TAPPING DETAIL			
SCALE:	NONE	DATE:	2/96
APPROVED:	PVR	4/01 1/08 1/16 10/16	
DIRECTOR OF ENGINEERING			



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Owner
New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
Short Elliott Hendrickson, Inc.
10901 Red Circle Drive
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Structural Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Mechanical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Electrical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

NEW HORIZON ACADEMY -
DOUGLAS 234 FILING, NO. 6
PARKER, CO

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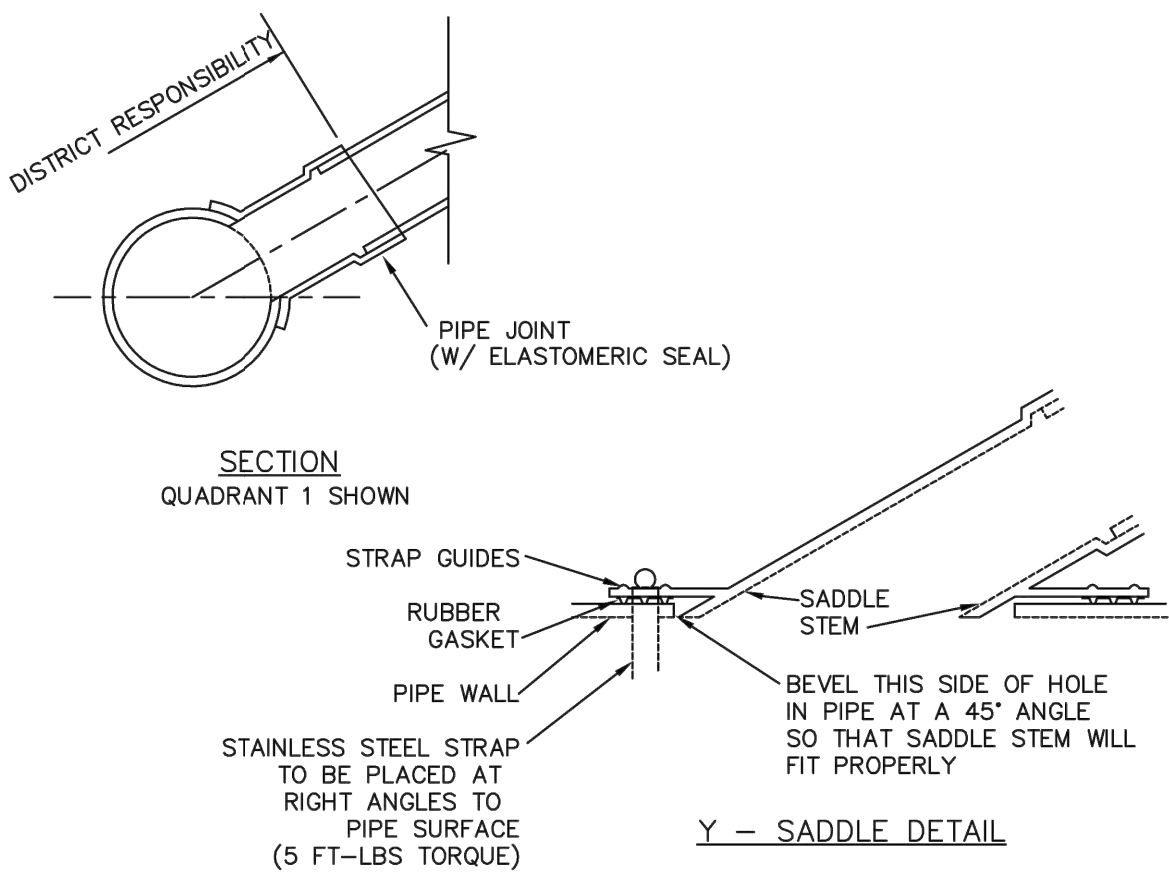
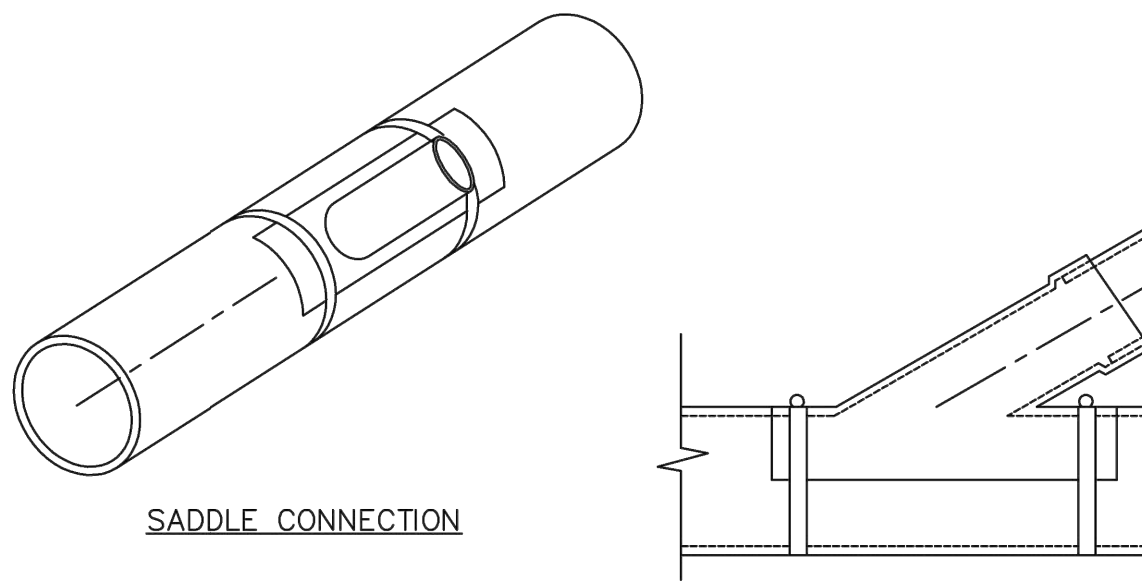
Project Status Issue Date
CONSTRUCTION SET 6/25/2021

Revision Issue
Rev. # Description Date

SANITARY SEWER DETAILS

U1.2

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NOTES:

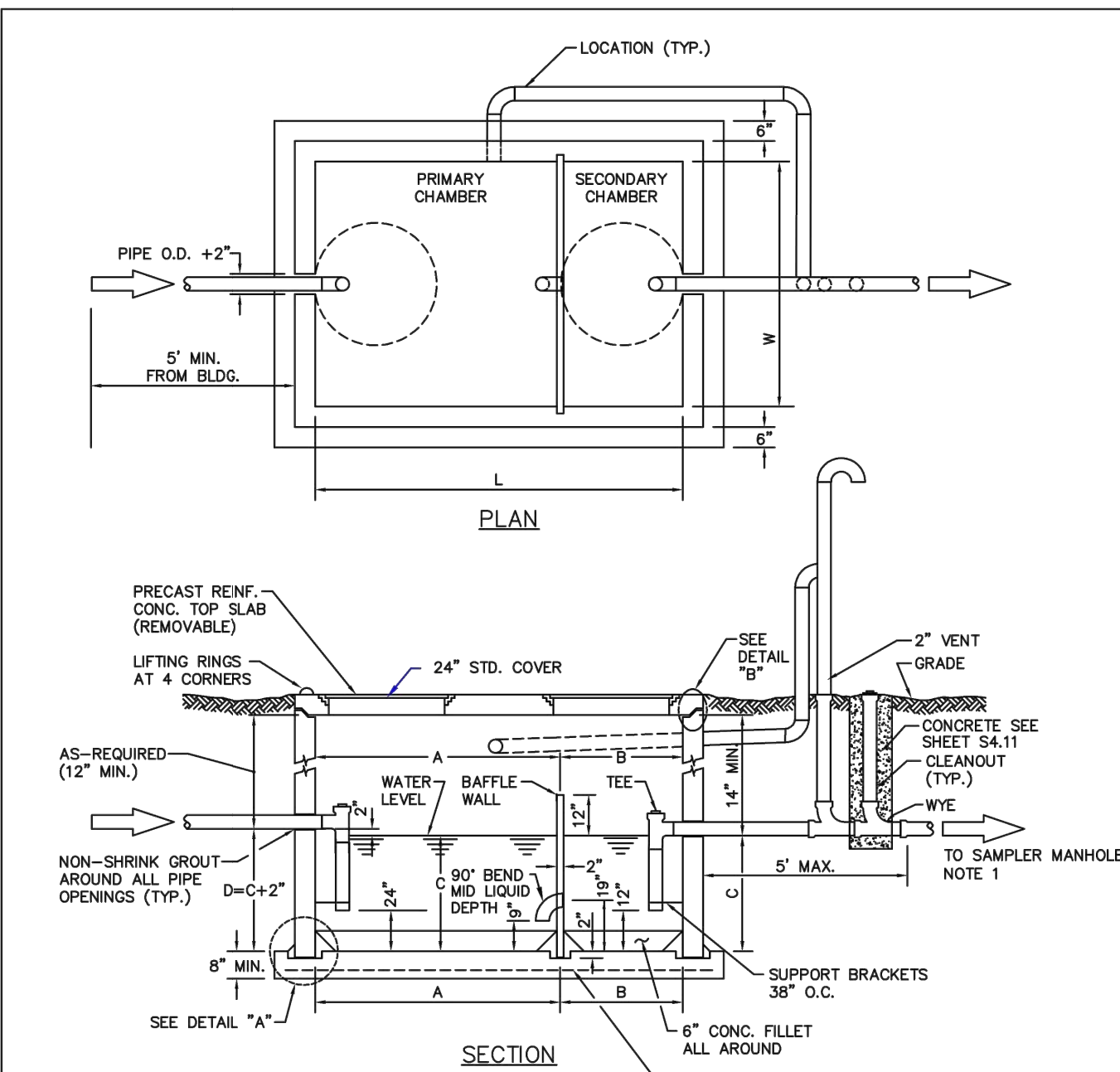
1. SADDLE FITTINGS TO BE PER ASTM D3034.
2. CONNECTION SHALL BE Y - SADDLE WITH TWO BONDS

PARKER WATER & SANITATION DISTRICT

P.V.C. SADDLE CONNECTION DETAIL

SCALE: NONE	DATE: 2/96
APPROVED: PVR	1/16
DIRECTOR OF ENGINEERING	10/16

SHEET S4.14



TOTAL WATER CAP. APPROX. (GALLONS)	GREASE CAP. APPROX. (CU. FT.)	DIMENSIONS (INCHES)					
		W	L	A	B	C	D
1190	61	72	96	64	32	40	42
1600	84	72	144	96	48	40	42
1840	103	72	144	96	48	46	48
2080	117	72	144	96	48	52	54
2560	150	72	144	96	48	64	68
3040	183	72	144	96	48	76	78
3280	202	72	144	96	48	82	84
3520	216	72	144	96	48	88	90

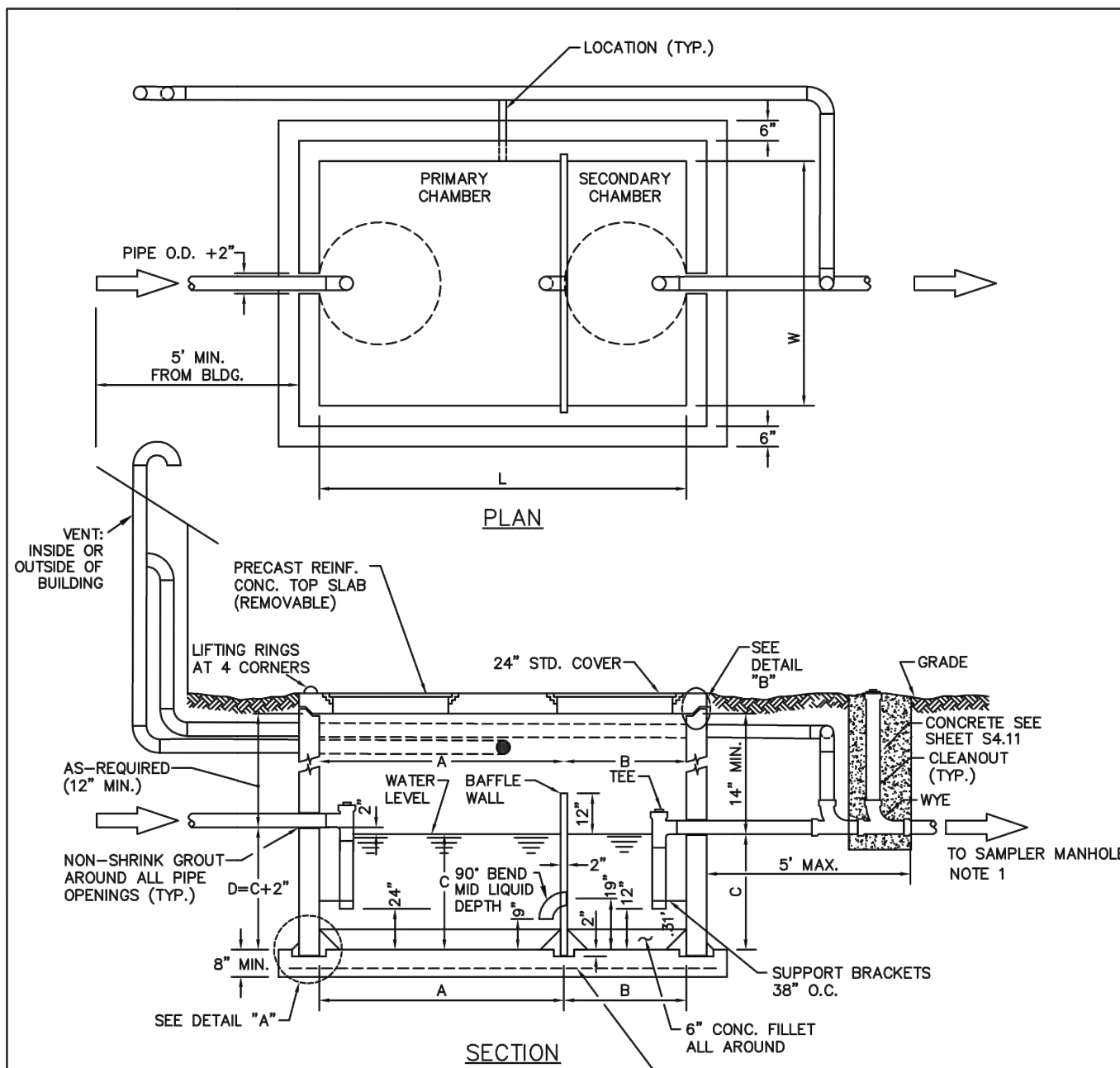
1. SAMPLE MANHOLE SHALL BE LESS THAN 20 FEET FROM CLEANOUT.

PARKER WATER & SANITATION DISTRICT

COMMERCIAL GREASE INTERCEPTOR

SCALE: NONE	DATE: 2/96
APPROVED: PVR	2/00
DIRECTOR OF ENGINEERING	01/02
	01/16
	10/16

SHEET S5.1



TOTAL WATER CAP. APPROX. (GALLONS)	GREASE CAP. APPROX. (CU. FT.)	DIMENSIONS (INCHES)					
		W	L	A	B	C	D
1190	61	72	96	64	32	40	42
1600	84	72	144	96	48	40	42
1840	103	72	144	96	48	46	48
2080	117	72	144	96	48	52	54
2560	150	72	144	96	48	64	68
3040	183	72	144	96	48	76	78
3280	202	72	144	96	48	82	84
3520	216	72	144	96	48	88	90

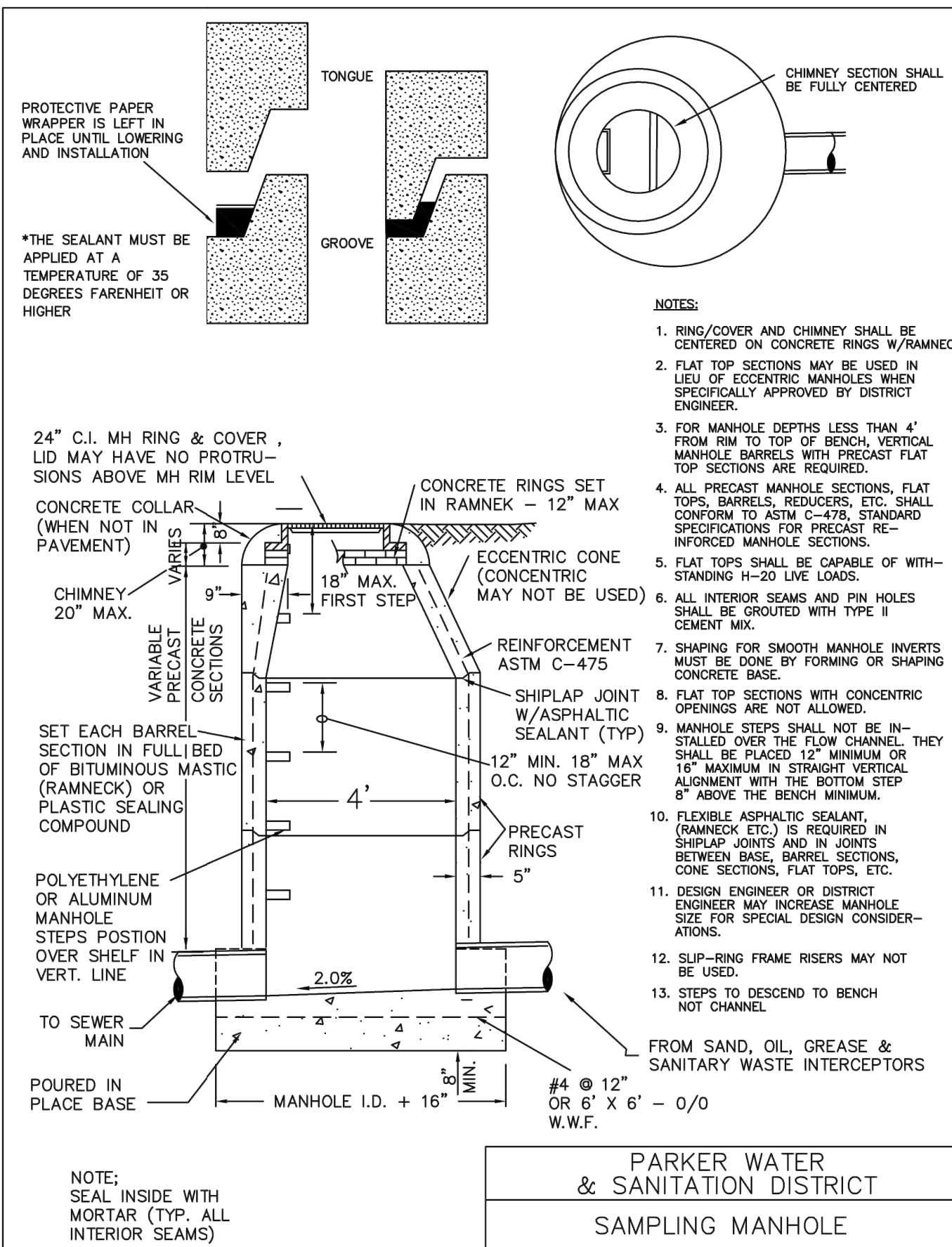
1. SAMPLE MANHOLE SHALL BE LESS THAN 20 FEET FROM CLEANOUT.

PARKER WATER & SANITATION DISTRICT

COMMERCIAL GREASE INTERCEPTOR

SCALE: NONE	DATE: 2/96
APPROVED: PVR	01/02
DIRECTOR OF ENGINEERING	01/16
	10/16

SHEET S5.2



NOTES:

1. RING/COVER AND CHIMNEY SHALL BE CENTERED ON CONCRETE RINGS W/RAMNECK.
2. FLAT TOP SECTIONS MAY BE USED IN LIEU OF ECCENTRIC MANHOLES WHEN SPECIFICALLY APPROVED BY DISTRICT ENGINEER.
3. FOR MANHOLE DEPTHS LESS THAN 4' FROM RIM TO TOP OF BRICK VERTICAL MANHOLE BARRELS WITH PRECAST FLAT TOP SECTIONS ARE REQUIRED.
4. ALL PRECAST MANHOLE SECTIONS, FLAT TOPS, BARRELS, REDUCERS, ETC. SHALL CONFORM TO ASTM C-478, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED MANHOLE SECTIONS.
5. FLAT TOPS SHALL BE CAPABLE OF WITHSTANDING H-20 LIVE LOADS.
6. ALL INTERIOR SEAMS AND PIN HOLES SHALL BE GROUTED WITH TYPE I CEMENT MIX.
7. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING CONCRETE BASE.
8. FLAT TOP SECTIONS WITH CONCENTRIC OPENINGS ARE NOT ALLOWED.
9. MANHOLE STEPS SHALL NOT BE INSTALLED OVER THE FLOW CHANNEL. THEY SHALL BE PLACED 12" MINIMUM OR 16" MAXIMUM IN STRAIGHT VERTICAL ALIGNMENT WITH THE BOTTOM STEP 8" ABOVE THE BENCH MINIMUM.
10. FLEXIBLE ASPHALTIC SEALANT, (RAMNECK ETC.) IS REQUIRED IN SHIRLAP JOINTS AND IN JOINTS BETWEEN BASE, BARREL SECTIONS, CONE SECTIONS, FLAT TOPS, ETC.
11. DESIGN ENGINEER OR DISTRICT ENGINEER MAY INCREASE MANHOLE SIZE FOR SPECIAL DESIGN CONSIDERATIONS.
12. SLIP-RING FRAME RISERS MAY NOT BE USED.
13. STEPS TO DESCEND TO BENCH NOT CHANNEL.

PARKER WATER & SANITATION DISTRICT

SAMPLING MANHOLE

SCALE: NONE	DATE: 2/96
APPROVED: PVR	2/00
DIRECTOR OF ENGINEERING	4/01
	1/08
	1/16

SHEET S5.3

Owner

New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

Short Elliott Hendrickson, Inc.
19901 Red Circle Drive
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Structural Engineer

Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Mechanical Engineer

Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Electrical Engineer

Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Project Status

CONSTRUCTION SET

Issue Date

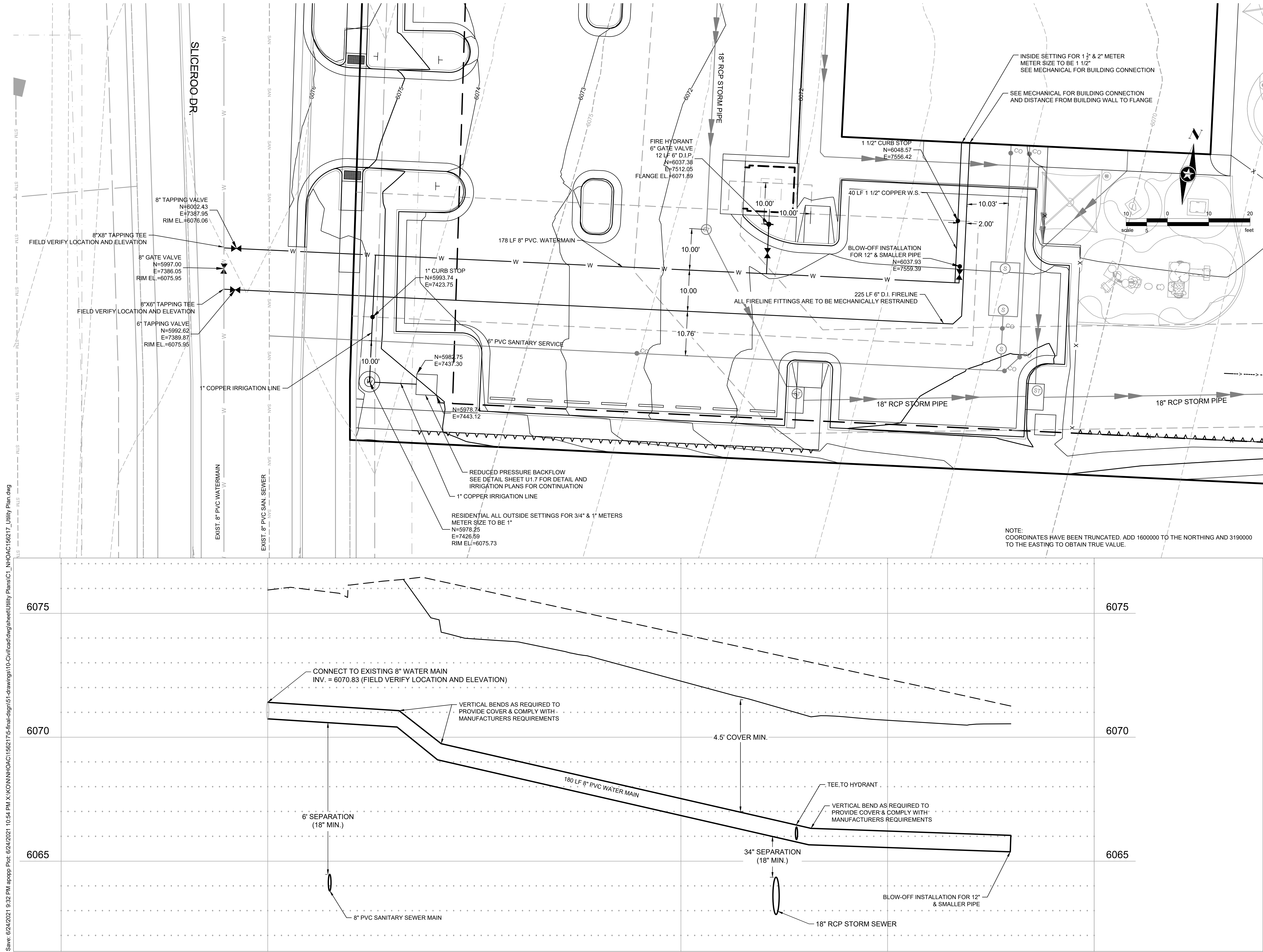
6/25/2021

Revision Issue

Rev. # Description Date

SANITARY DETAILS

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Owner
New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
Short Elliott Hendrickson, Inc.
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Structural Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Mechanical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Electrical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

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**NEW HORIZON ACADEMY -
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PARKER, CO

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SEH Project	NHOAC 156217
Checked By	DRH
Drawn By	AMP
Project Status	Issue Date
CONSTRUCTION SET	6/25/2021

Revision Issue		
Rev. #	Description	Date

WATER SERVICE PLAN &
PROFILE

U1.4

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INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.

2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.

3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE OR SERVICE FAILS, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE AND A RE-INSPECTION FEE CHARGED.

4. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.

5. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.

6. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.

7. LOTS WITHOUT BUILDING ADDRESSES BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.

8. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION. UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

WATER

1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING. (3/4" MIN.)

2. APPROVED BEDDING TO BE SQUEEGEE.

3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-IN AND BUILDING. COMPRESSION COUPLINGS WILL NOT BE ALLOWED ON NEW CONSTRUCTION. SILVER SOLDERED JOINTS MUST BE USED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSO PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

4. A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 45-90° ANGLE. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 18" ABOVE SEWER SERVICE.

5. WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD, CRAWL SPACE REQUIRES CONTINUOUS COPPER WITH A 1" BURY.

6. CURB STOP MUST BE PLUMB AND CENTERED OVER THE NUT, IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.

7. MOVED CURB BOXES MUST BE INSPECTED BY PWSO PRIOR TO BURIAL.

8. WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.

9. NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.

10. CURBSTOP BOXES AND METER PITS CANNOT BE IN DRIVEWAYS.

11. ONLY 3/4" (JUMPER) PIPES (RESIDENCES) ARE ALLOWED. (JUMPER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.

12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"V" FOR WATER SERVICES

13. NO SPLICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE USED IN MOVING STOPBOXES ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSO PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

PARKER WATER & SANITATION DISTRICT

DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES

SCALE: NONE

DATE: 2/96

APPROVED: 1/04 1/16 10/16

PVR

DIRECTOR OF ENGINEERING

2016 REVISION

SHEET W1.1

TYPICAL SERVICES PLAN VIEW

NTS

TYPICAL SERVICES SECTION

NTS

NOTE

1. SEE SHEET W1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.

2. REFER TO SEWER SERVICES DETAIL SHEET S1.2.

3. 4" PVC SLEEVES REQUIRED FOR SERVICE LINES UNDER CONCRETE SURFACE.

PARKER WATER & SANITATION DISTRICT

TYPICAL WATER SERVICES

SCALE: NONE

DATE: 2/96

APPROVED: 1/04 10/16 06/05 12/07 1/16

PVR

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2016 REVISION

SHEET W1.2

PARKER WATER & SANITATION DISTRICT

FIRE HYDRANTS LOCATION & INSTALLATION

SCALE: NONE

DATE: 2/96

APPROVED: 4/01 10/16 01/02 12/07 1/16

PVR

DIRECTOR OF ENGINEERING

NOTES:

1. ALTERNATE TO THE ABOVE: FASTEN M.J. VALVE DIRECTLY TO A M.J. ANCHOR TEE (SEE NOTE BELOW)

2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH

3. NO PORTION OF FIRE HYDRANT MAY BE BURIED UNDER PAVEMENT OR WALK AREA.

4. FIRE HYDRANT EXTENSIONS MAY NOT BE USED

2016 REVISION

SHEET W2.5

PIPE LOCATION SYSTEM

PLAN

SECTION VIEW @ FIRE HYDRANT

NOTES:

PARKER WATER & SANITATION DISTRICT

LOCATOR WIRE DETAILS

SCALE: NONE

DATE: 2/96

APPROVED: 4/01 01/02 10/16 10/16

PVR

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2016 REVISION

SHEET W2.6

PLAN OF VALVE

NOTE: ONLY RIGHT HAND OPENING VALVES ALLOWED.

VALVE OPENING & CLOSING PROCEDURE

PARKER WATER & SANITATION DISTRICT

VALVE OPERATION

SCALE: NONE

DATE: 2/96

APPROVED: 1/16 10/16

PVR

DIRECTOR OF ENGINEERING

2016 REVISION

SHEET W3.4

PLAN

ELEVATION

PARKER WATER & SANITATION DISTRICT

BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE

SCALE: NONE

DATE: 2/96

APPROVED: 4/01 1/16 10/16

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2016 REVISION

SHEET W3.7

6-INCH VALVE BOXES

CHECK MATERIAL SPECIFICATIONS

PARKER WATER & SANITATION DISTRICT

VALVE BOX DETAIL

SCALE: NONE

DATE: 2/96

APPROVED: 5/98 10/16 6/99 12/07 1/16

PVR

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2016 REVISION

SHEET W3.10

LENGTH OF TIED PIPE

PIPE SIZE

PARKER WATER & SANITATION DISTRICT

LENGTH OF TIED PIPE

SCALE: NONE

DATE: 2/96

APPROVED: 4/01 1/16 10/16

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2016 REVISION

SHEET W3.11

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37763

6/25/21

ALAN WITTEL

Owner

New Horizon Academy

3405 Annapolis Lane

N, Suite 100

Plymouth, MN 55447

763.557.1111

Architect

Short Elliott Hendrickson, Inc.

2000 South Colorado Boulevard

Tower One, Suite 6000

Denver, Colorado 80222

720.540.6800

Landscape Architect

Short Elliott Hendrickson, Inc.

10901 Reg Circle Drive

Suite 300

Minnetonka, MN 55343

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Short Elliott Hendrickson, Inc.

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3535 Vadnais Center Drive

St. Paul, MN 55110

651.490.2000

Mechanical Engineer

Short Elliott Hendrickson, Inc.

3535 Vadnais Center Drive

St. Paul, MN 55110

651.490.2000

Electrical Engineer

Short Elliott Hendrickson, Inc.

3535 Vadnais Center Drive

St. Paul, MN 55110

651.490.2000

NEW HORIZON ACADEMY - DOUGLAS 234 FILING, NO. 6

PARKER, CO

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SEH Project

Checked By

Drawn By

NHOAC 156217

DRH

AMP

Project Status

CONSTRUCTION SET

Issue Date

6/25/2021

Revision Issue

Rev. #

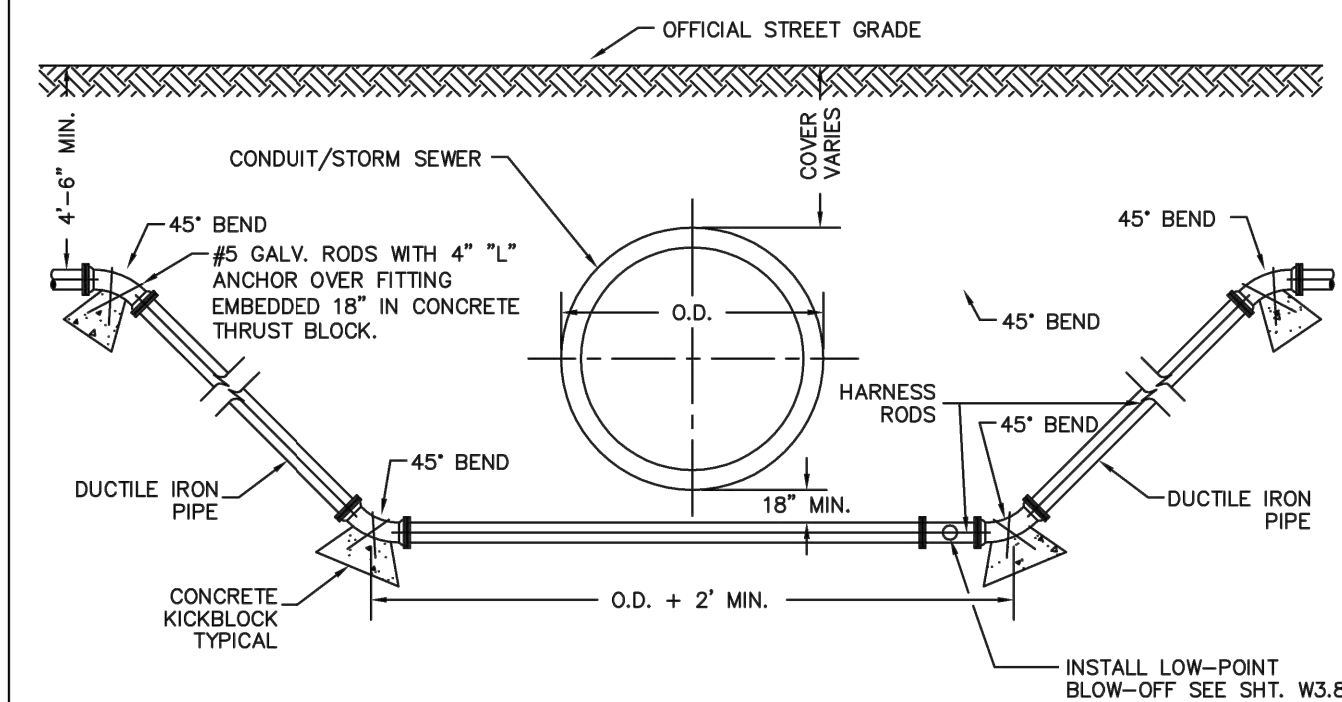
Description

Date

WATER DETAILS

U1.5

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NOTES:

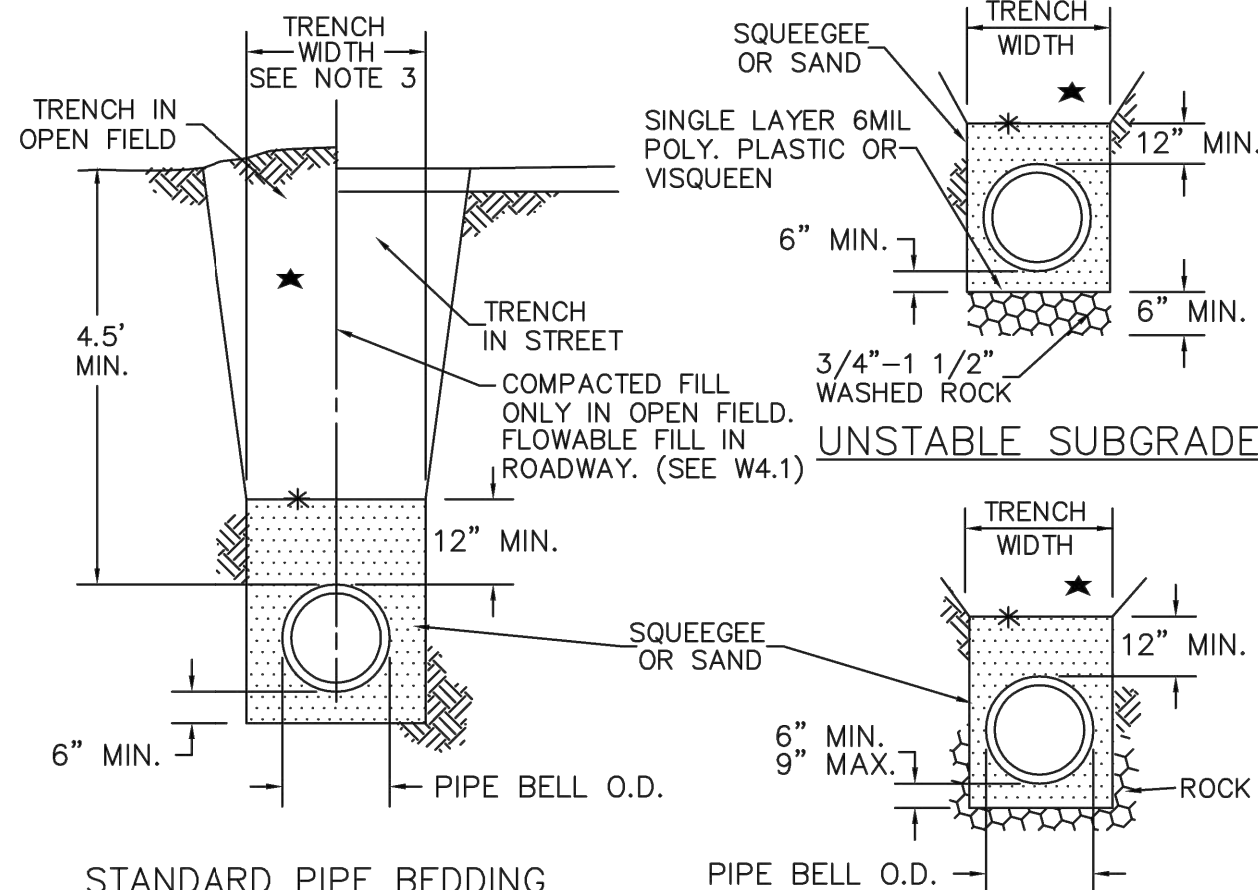
1. LENGTH OF EXTENSION OF PIPE AND HARNESS RODS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
2. ALL WATER MAINS TWELVE (12") INCHES OR SMALLER, WHICH CROSS UNDER CONDUITS/STORM SEWER SHALL BE DUCTILE IRON OR PVC PER SPECIFICATIONS.
3. A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER.
4. CONCRETE KICKBLOCKS PER SHEET W3.18.

PARKER WATER
& SANITATION DISTRICT
CONDUIT OR STORM
SEWER CROSSING

SCALE: NONE	DATE: 2/96
APPROVED: 5/98 10/16 PVR 2/00 12/07 DIRECTOR OF ENGINEERING 1/16	

2016 REVISION

SHEET W4.6



STANDARD PIPE BEDDING

- ★ MACHINE COMPACTED TRENCH BACKFILL
- * LIMIT OF SLOPING OR BENCHING OF TRENCH WALLS
- UNDISTURBED GROUND

PIPE BEDDING
IN ROCK

NOTES:

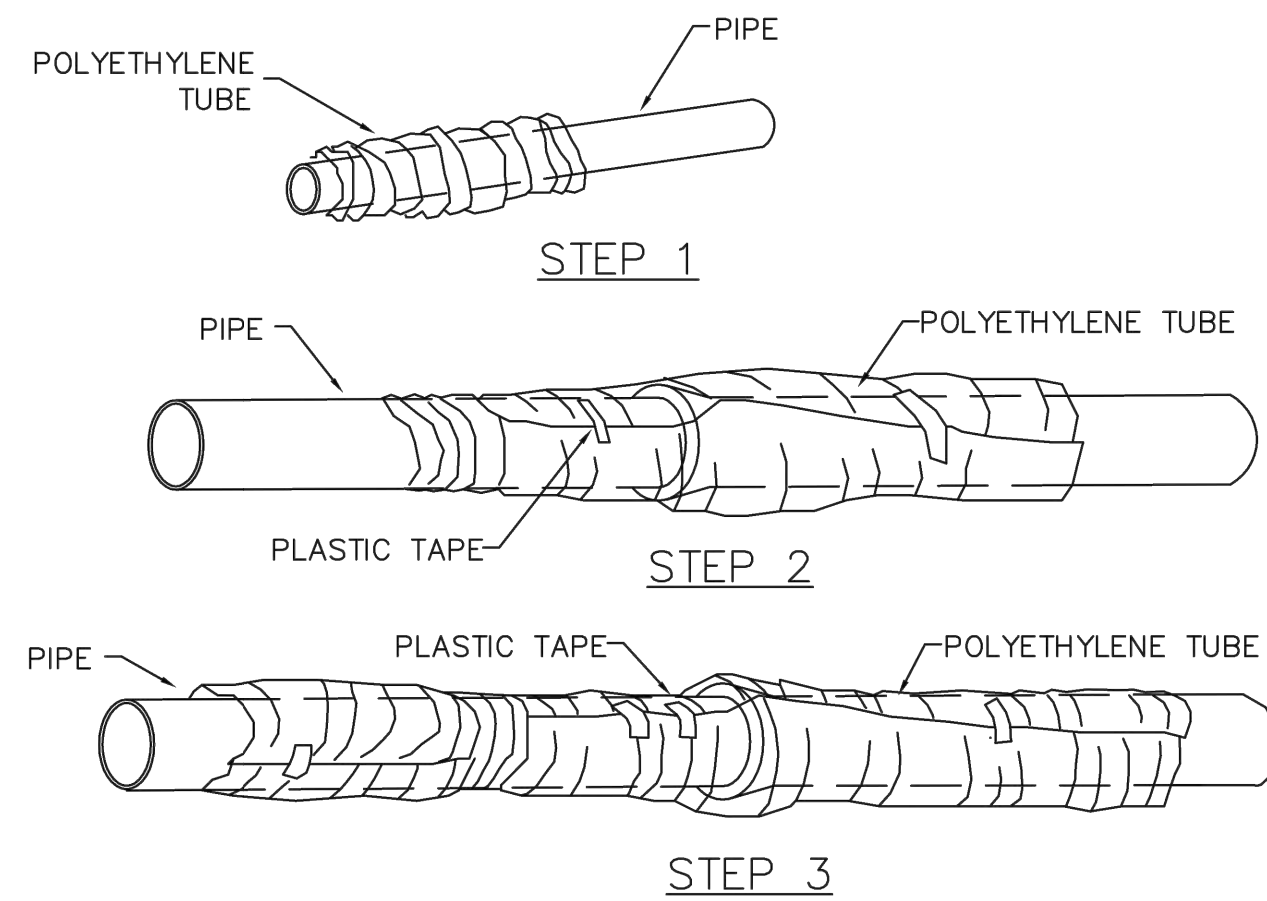
1. MIN. COVER TO BE BELOW FINAL STREET GRADE. CONSTRUCTION OF WATER MAIN MAY NOT START UNTIL FINAL GRADE WITHIN 1 FOOT.
2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE PROTECTION OF OTHER UTILITIES AND TO MEET OSHA SAFETY REQUIREMENT.
3. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE LARGEST OUTSIDE DIAMETER OF THE PIPE LAID THEREIN (BELL OR COUPLING O.D. IF APPLICABLE). REFER TO SHEET W4.1 FOR DIMENSIONS.

PARKER WATER
& SANITATION DISTRICT
BEDDING DETAILS

SCALE: NONE	DATE: 2/96
APPROVED: 1/16 10/16 PVR 12/07 1/16 DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W4.8



FIELD INSTALLATION - POLYETHYLENE WRAP

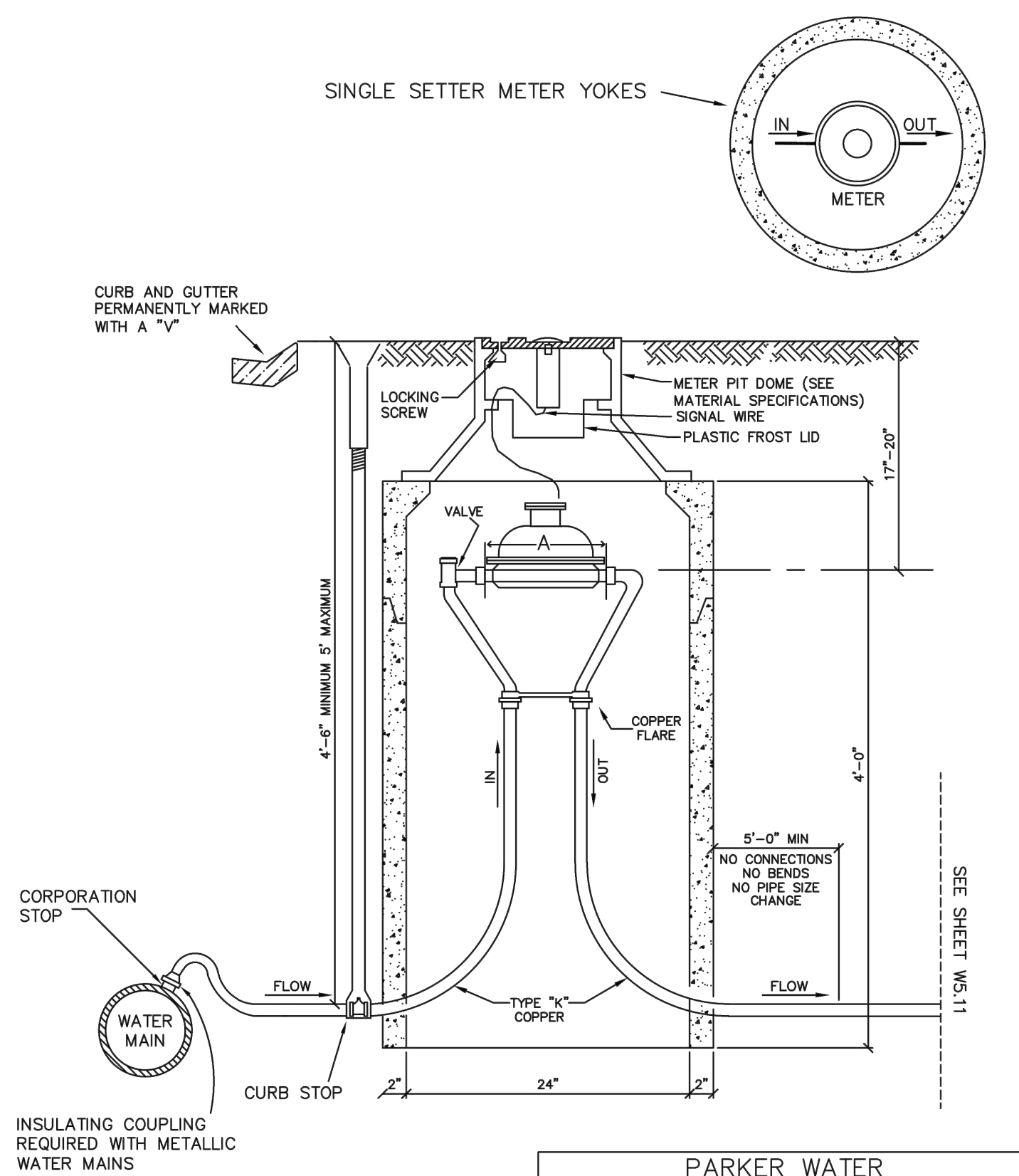
- STEP 1 - PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.
- STEP 2 - PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.
- STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

PARKER WATER
& SANITATION DISTRICT
POLYETHYLENE WRAP

SCALE: NONE	DATE: 2/96
APPROVED: 1/16 10/16 PVR 12/07 1/16 DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W4.11



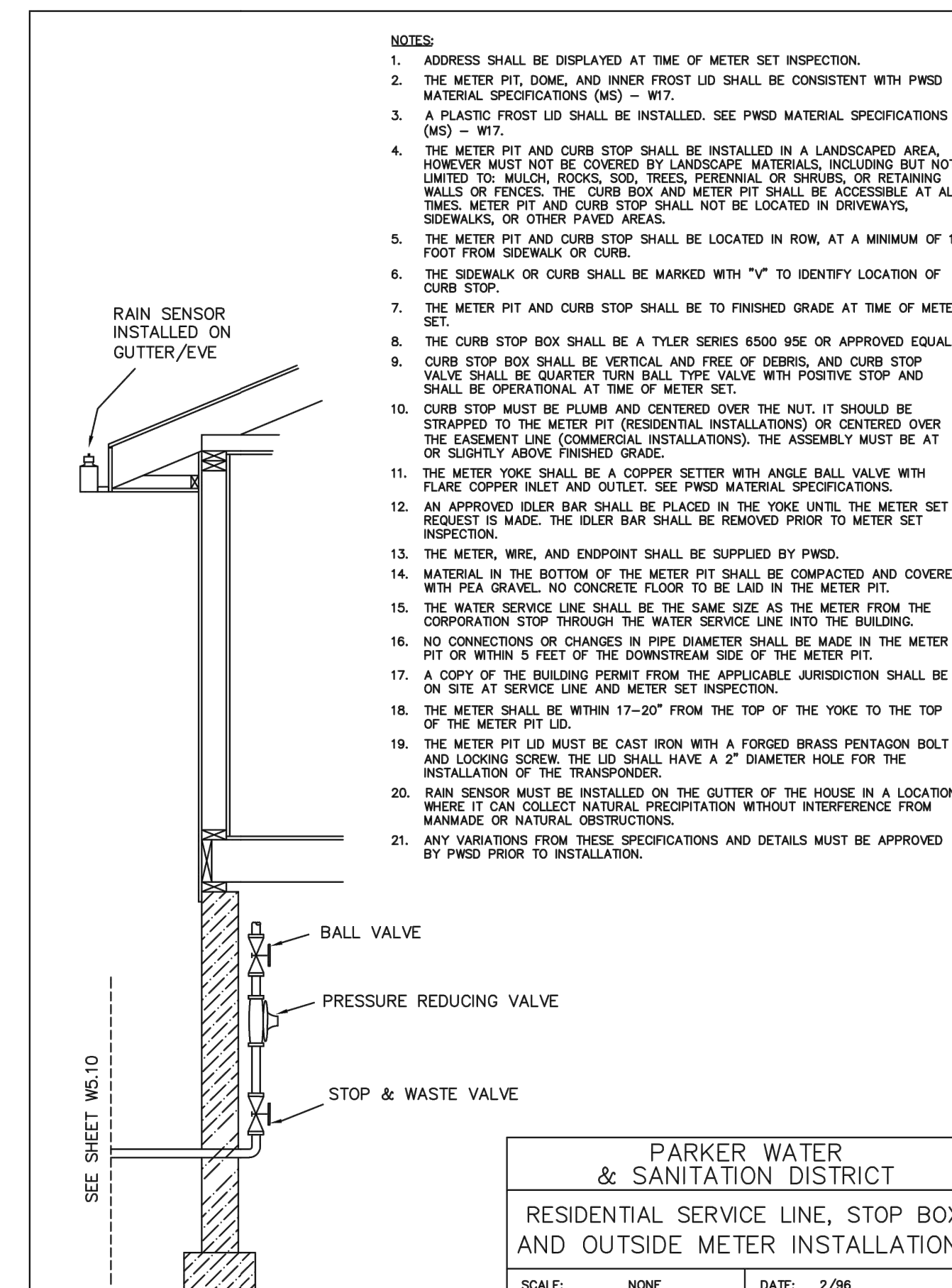
METER SIZE	A
3/4"	7 3/4"
1"	11 1/4"

PARKER WATER
& SANITATION DISTRICT
RESIDENTIAL ALL OUTSIDE SETTINGS FOR
3/4" & 1" METERS

SCALE: NONE	DATE: 2/96
APPROVED: 01/04 01/16 06/05 10/16 PVR 10/08 10/18 DIRECTOR OF ENGINEERING 01/12	

2018 REVISION

SHEET W5.10



NOTES:

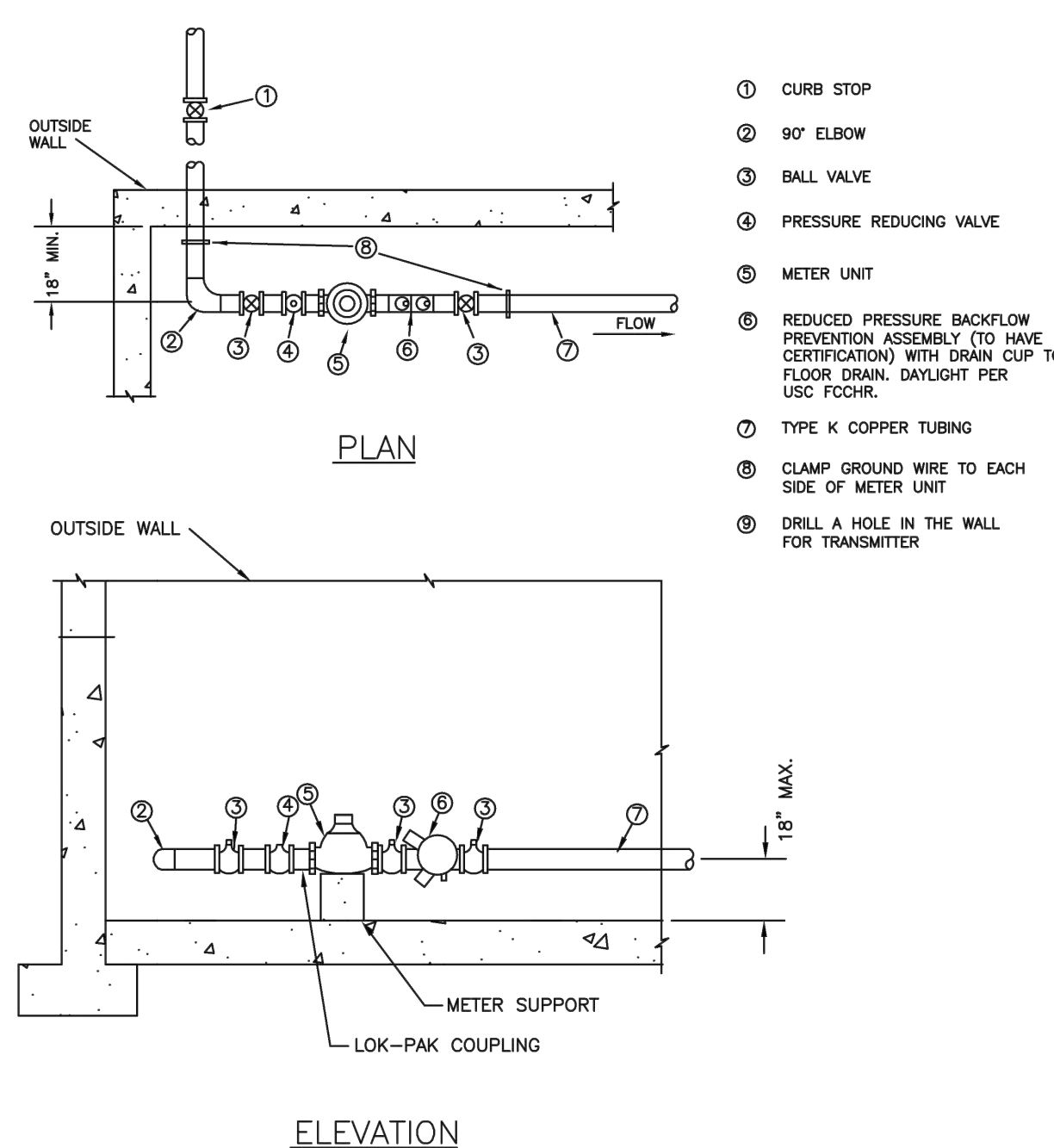
1. ADDRESS SHALL BE DISPLAYED AT TIME OF METER SET INSPECTION.
2. THE METER PIT, DOME, AND INNER FROST LID SHALL BE CONSISTENT WITH PWSO MATERIAL SPECIFICATIONS (MS) - W17.
3. A PLASTIC FROST LID SHALL BE INSTALLED. SEE PWSO MATERIAL SPECIFICATIONS (MS) - W17.
4. THE METER PIT AND CURB STOP SHALL BE INSTALLED IN A LANDSCAPED AREA. HOWEVER, MUST NOT BE COVERED BY LANDSCAPE MATERIALS, INCLUDING BUT NOT LIMITED TO: MULCH, ROCKS, SOIL, TREES, PERENNIAL OR SHRUBS, OR RETAINING WALLS OR FENCES. THE CURB STOP AND METER PIT SHALL BE ACCESSIBLE AT ALL TIMES. METER PIT AND CURB STOP SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS, OR OTHER PAVED AREAS.
5. THE METER PIT AND CURB STOP SHALL BE LOCATED IN ROW, AT A MINIMUM OF 1 FOOT FROM SIDEWALK OR CURB.
6. THE SIDEWALK OR CURB SHALL BE MARKED WITH "V" TO IDENTIFY LOCATION OF CURB STOP.
7. THE METER PIT AND CURB STOP SHALL BE TO FINISHED GRADE AT TIME OF METER SET.
8. THE CURB STOP BOX SHALL BE A TYLER SERIES 6500 USE OR APPROVED EQUAL. CURB STOP BOX SHALL BE VERTICAL AND FREE OF DEBRIS, AND CURB STOP VALVE SHALL BE QUARTER TURN BALL TYPE VALVE WITH POSITIVE STOP AND SHALL BE OPERATIONAL AT TIME OF METER SET.
9. CURB STOP MUST BE PLUMB AND CENTERED OVER THE NUT. IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.
10. THE METER YOE SHALL BE A COPPER SETTER WITH ANGLE BALL VALVE WITH FLARE COPPER INLET AND OUTLET. SEE PWSO MATERIAL SPECIFICATIONS.
11. AN APPROVED OILER BAR SHALL BE PLACED IN THE YOKE UNTIL THE METER SET REQUEST IS MADE. THE OILER BAR SHALL BE REMOVED PRIOR TO METER SET INSPECTION.
12. THE METER, WIRE, AND ENDPOINT SHALL BE SUPPLIED BY PWSO.
13. MATERIAL IN THE BOTTOM OF THE METER PIT SHALL BE COMPACTED AND COVERED WITH PEA GRAVEL. NO CONCRETE FLOOR TO BE LAID IN THE METER PIT.
14. THE WATER SERVICE LINE SHALL BE THE SAME SIZE AS THE METER FROM THE CORPORATION STOP THROUGH THE WATER SERVICE LINE INTO THE BUILDING.
15. NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR WITHIN 5 FEET OF THE DOWNSIDE SIDE OF THE METER PIT.
16. A COPY OF THIS BUILDING PERMIT FROM THE APPLICABLE JURISDICTION SHALL BE ON SITE AT SERVICE LINE AND METER SET INSPECTION.
17. THE METER SHALL BE WITHIN 17'-20" FROM THE TOP OF THE YOKE TO THE TOP OF THE METER PIT LID.
18. THE METER PIT LID MUST BE CAST IRON WITH A FORGED BRASS PENTAGON BOLT AND LOCKING SCREW. THE LID SHALL HAVE A 2" DIAMETER HOLE FOR THE INSTALLATION OF THE TRANSDUCER.
19. RAIN SENSOR MUST BE INSTALLED ON THE GUTTER OF THE HOUSE IN A LOCATION WHERE IT CAN COLLECT NATURAL PRECIPITATION WITHOUT INTERFERENCE FROM MANMADE OR NATURAL OBSTRUCTIONS.
20. ANY VARIATIONS FROM THESE SPECIFICATIONS AND DETAILS MUST BE APPROVED BY PWSO PRIOR TO INSTALLATION.

PARKER WATER
& SANITATION DISTRICT
RESIDENTIAL SERVICE LINE, STOP BOX
AND OUTSIDE METER INSTALLATION

SCALE: NONE	DATE: 2/96
APPROVED: 2/00 5/05 10/18 PVR 4/01 1/12 DIRECTOR OF ENGINEERING 01/02 1/16 12/03 10/18	

2018 REVISION

SHEET W5.11



NOTES:

- 1 - PIPE JOINT SHALL BE THREADED OR SOLDERED WITH SILVER SOLDER.
- 2 - INSTALLATION MUST ALLOW ACCESS FOR MAINTENANCE AND BE PROTECTED FROM FREEZING.
- 3 - SEE WATER SYSTEM SPECIFICATIONS FOR GENERAL METER NOTES.
- 4 - COMPANION FLANGES SHALL BE BRASS.
- 5 - METER SUPPORT SHALL BE EITHER CONCRETE OR ADJ. STEEL PIPE (SEE SHEET W3.10)
- 6 - 1.0' MINIMUM CLEARANCE AROUND BACKFLOW DEVICE
- 7 - FLOOR DRAIN TO BE 2X PIPE SIZE
- 8 - FOR IRRIGATION USES, ADD RAIN SENSOR AND SMART E.T. CONTROLLER

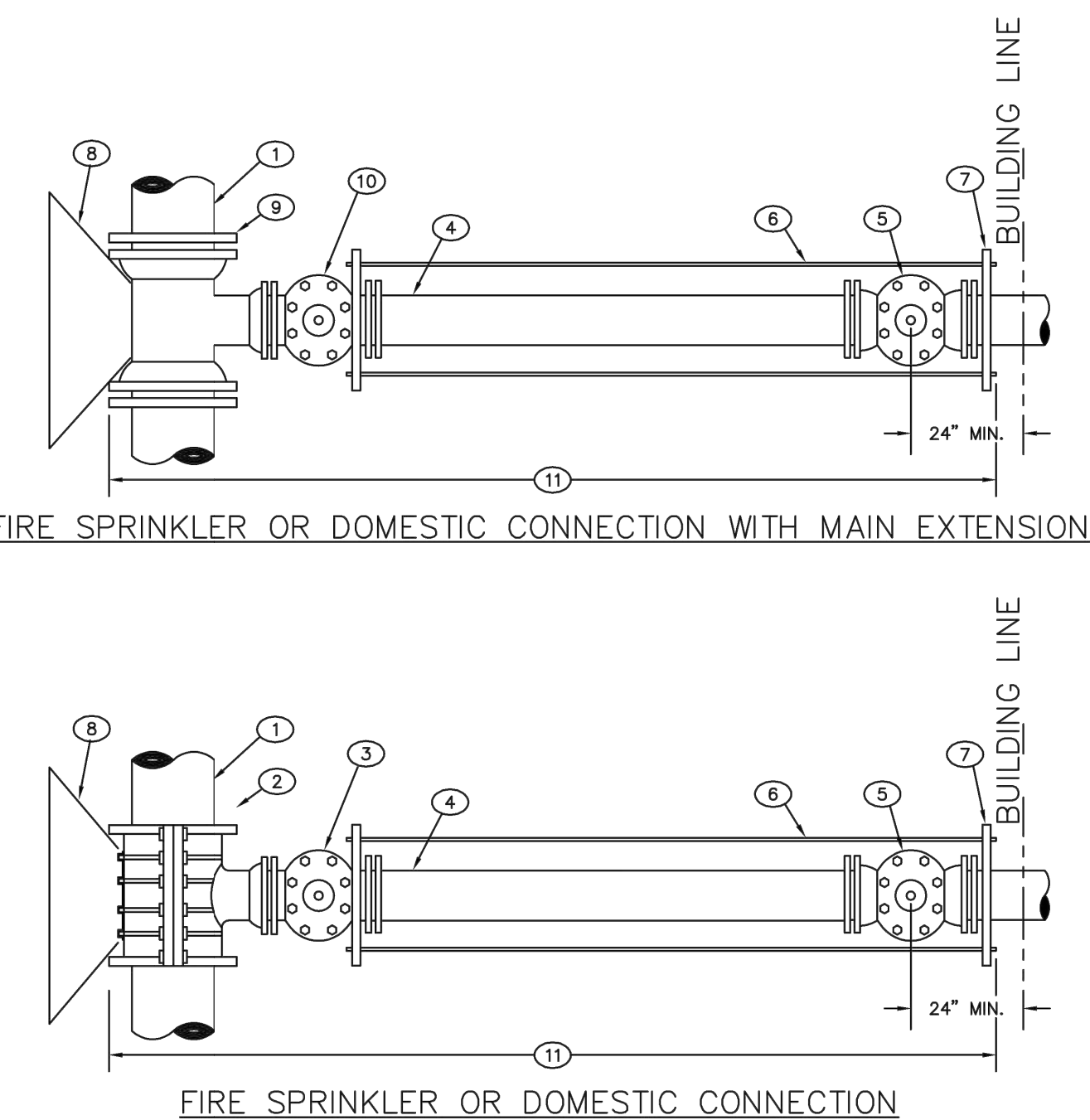
METER	YOKE DISTANCE
1.5"	13.25" WITH ADJUSTABLE FLANGE FOR GASKET
2"	17.25" WITH ADJUSTABLE FLANGE FOR GASKET

PARKER WATER
& SANITATION DISTRICT
INSIDE, SETTING FOR
1 1/2" & 2" METER

SCALE: NONE	DATE: 2/96
APPROVED: 8/99 01/02 01/16 2/00 06/05 10/16 PVR 4/01 07/06 DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W5.14



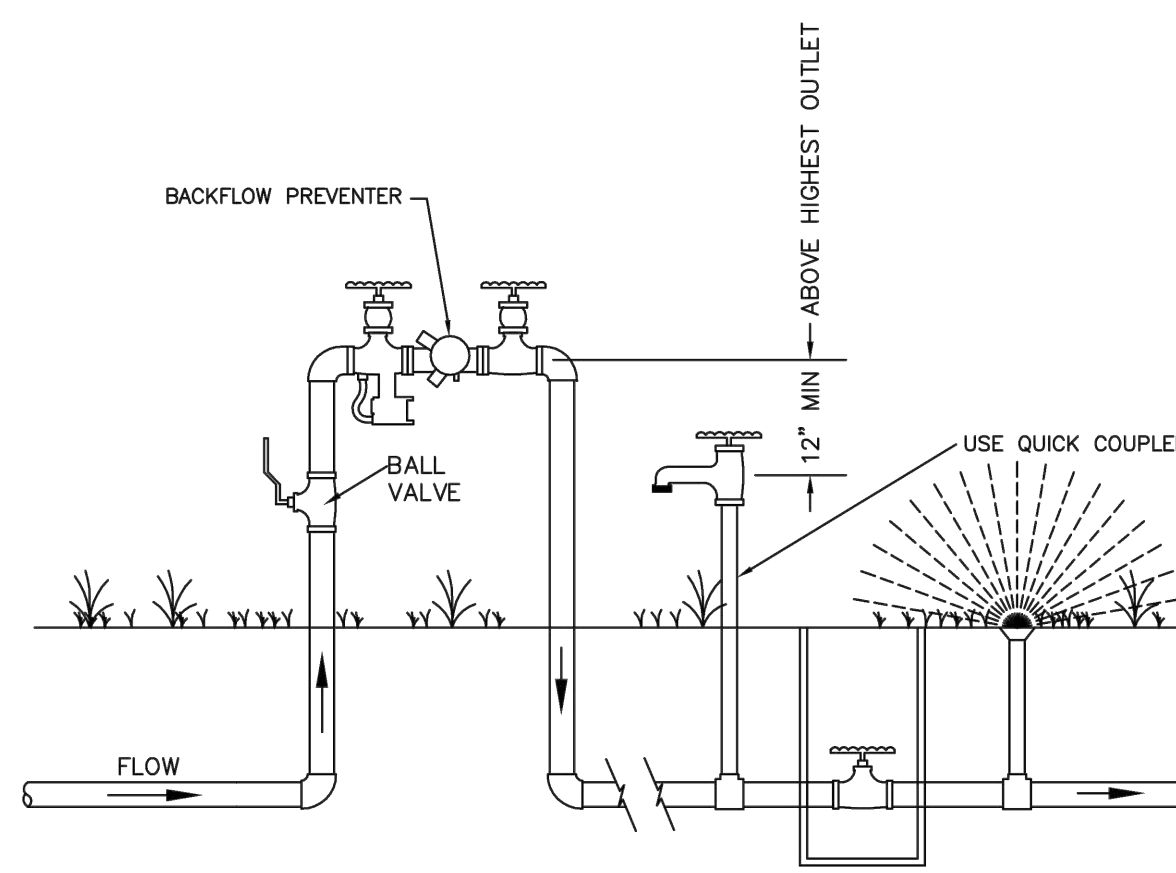
- 1 EXISTING MAIN
- 2 TAPPING SLEEVE
- 3 TAPPING VALVE
- 4 DOUBLE SPIGOT PIPE
- 5 PROPERTY LINE VALVE
- 6 TIE RODS
- 7 PIPE CLAMP
- 8 CONCRETE KICKBLOCK
- 9 M.J. ANCHORING TEE (SWIVEL TEE)
- 10 M.J. VALVE
- 11 POLYETHYLENE WRAPPED

PARKER WATER
& SANITATION DISTRICT
3" AND LARGER DOMESTIC AND
FIRE SPRINKLER CONNECTIONS

SCALE: NONE	DATE: 2/96
APPROVED: 1/16 10/16 PVR 12/07 1/16 DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W5.18



REDUCED PRESSURE BACKFLOW ON IRRIGATION SYSTEM

NOTE:

1. ALL IRRIGATION SYSTEMS MUST BE CONNECTED DOWN STREAM OF METER.
2. PROVIDE ENCLOSURE.

PARKER WATER
& SANITATION DISTRICT
REDUCED PRESSURE BACKFLOW

SCALE: NONE	DATE: 2/96
APPROVED: 2004 06/05 1/16 PVR 10/16 DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W6.1



Building a Better World
for All of Us®



Owner
New Horizon Academy
3405 Annapolis Lane
N., Suite 100
Plymouth, MN 55447
763.557.1111

Architect
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
Short Elliott Hendrickson, Inc.
19001 Reg Circle Drive
Suite 300
Minnetonka, MN 55343
952.912.2600

Civil Engineer
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Structural Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Mechanical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

Electrical Engineer
Short Elliott Hendrickson, Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
651.490.2000

NEW HORIZON ACADEMY -
DOUGLAS 234 FILING, NO. 6
PARKER, CO

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SEH Project
Checked By
Drawn By

Project Status
CONSTRUCTION SET

Revision Issue
Rev. # Description Date

WATER DETAILS

U1.7