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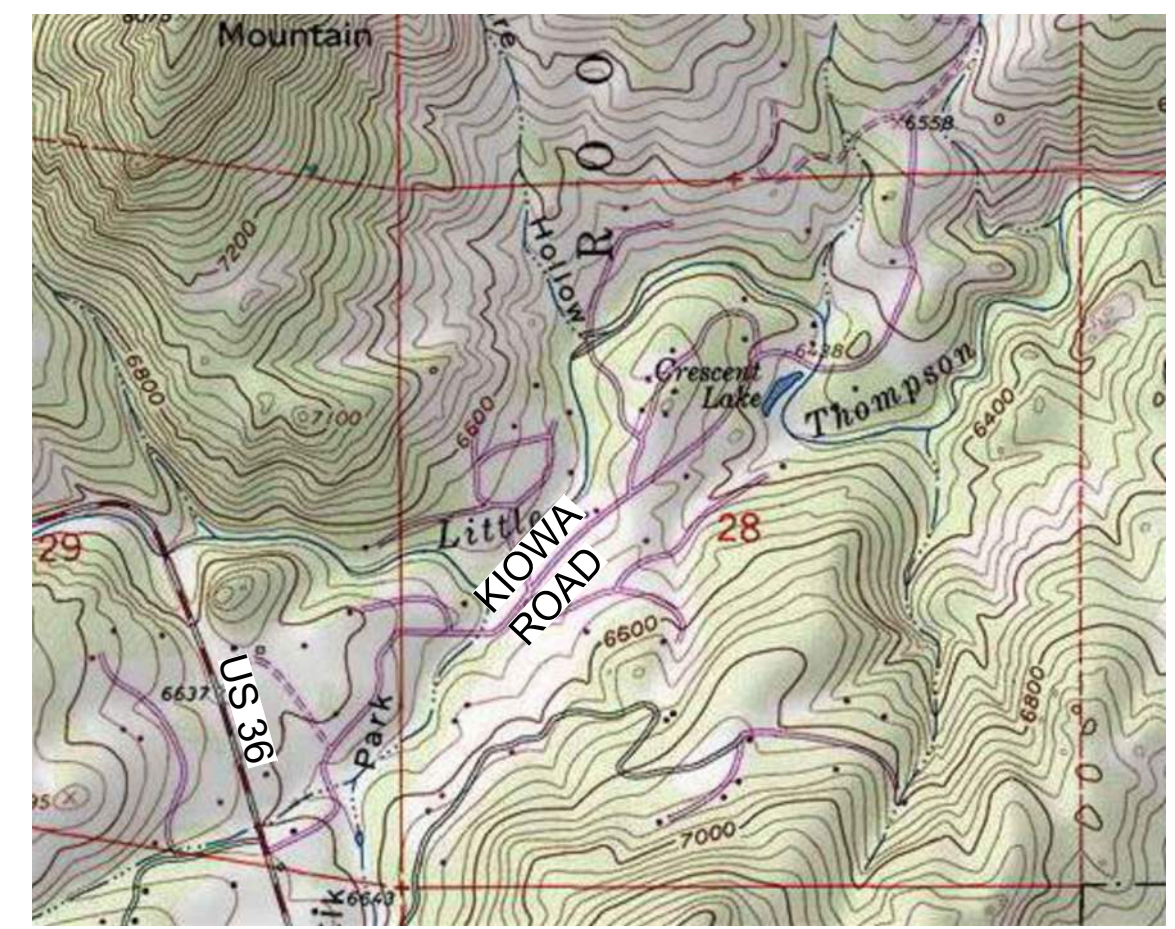
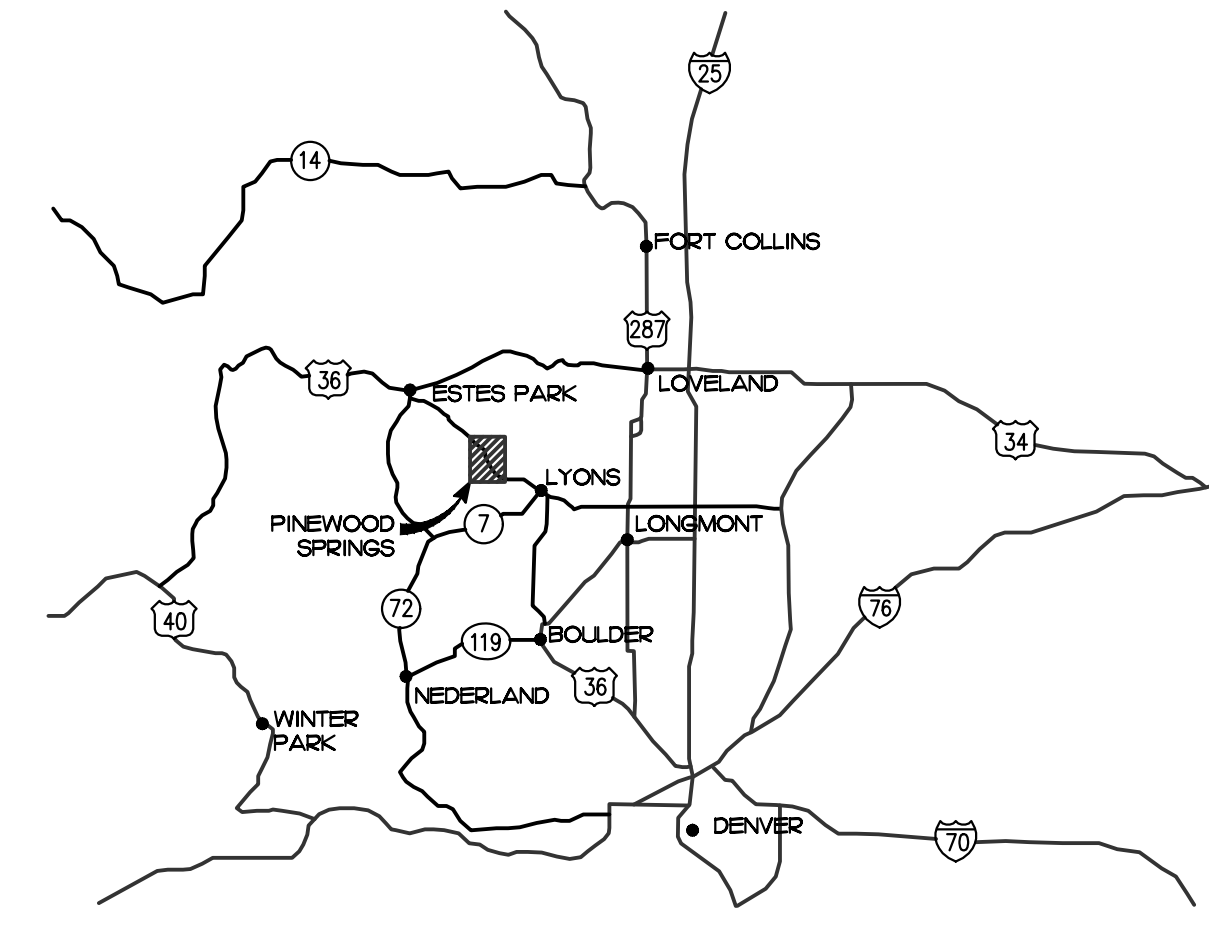
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PINEWOOD SPRINGS WATER DISTRICT

LARIMER COUNTY, COLORADO

WATER LINE REPLACEMENT

DECEMBER, 2024
MERRICK PROJECT NO. 100472



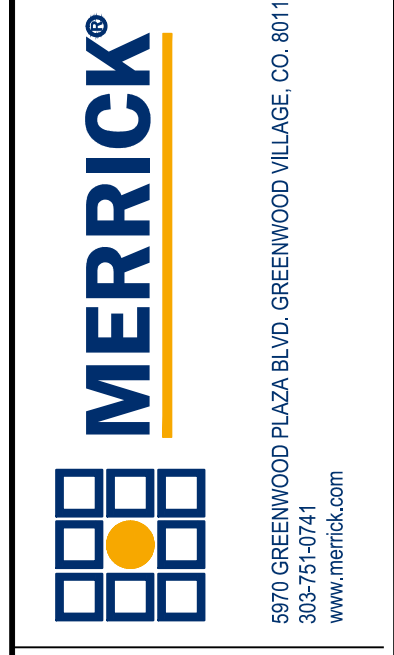
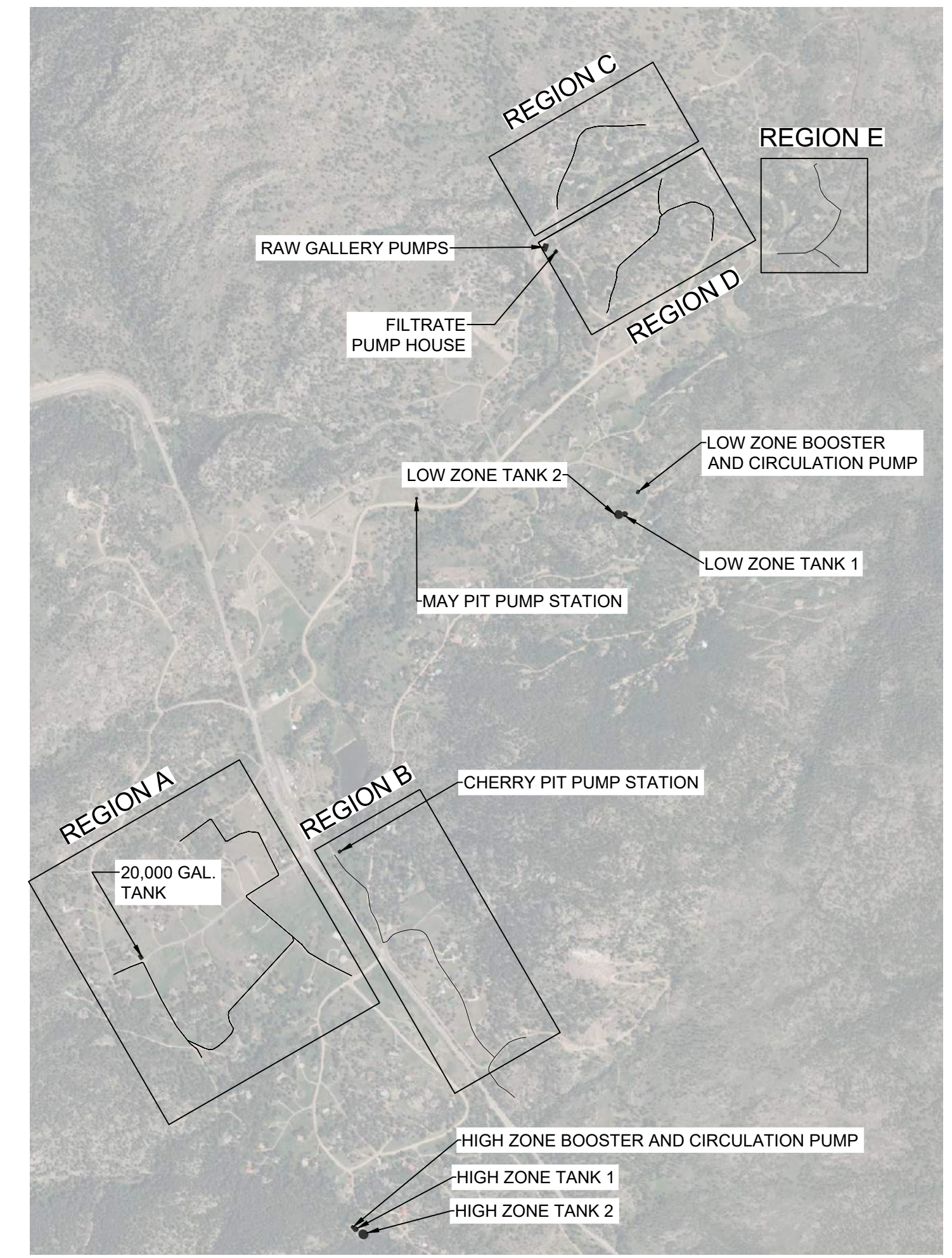
LEGEND			
	APPROXIMATE PROPERTY BOUNDARY		PROPOSED WATER LINE
	EXISTING WATER LINE		EXISTING WATER LINE (INSET)
	EXISTING MID ZONE LINE		PROPOSED TEE (INSET)
	EXISTING FIBER OPTIC LINE		PROPOSED COUPLING (INSET)
	EXISTING MAJOR CONTOUR		PROPOSED ZONE METER VAULT (INSET)
	EXISTING MINOR CONTOUR		PROPOSED METER PIT
	PROPOSED WATER LINE		PROPOSED GATE VALVE
	EXISTING STRUCTURE		PROPOSED HYDRANT ISOLATION VALVE
	EXISTING WATER SAMPLE LOCATION		PROPOSED HYDRANT
	HISTORIC LEAK LOCATION		PROPOSED REDUCER
	EXISTING HYDRANT		PROPOSED ANCHOR BLOCK
	EXISTING FLUSHING HYDRANT		
	EXISTING WATER VALVE		
	EXISTING PRV VAULT		
	EXISTING METER PIT		
	EXISTING CURB STOP		
	EXISTING COMMUNICATIONS BOX		
	EXISTING FIBER OPTIC BOX		
	EXISTING CULVERT (APPROXIMATE)		

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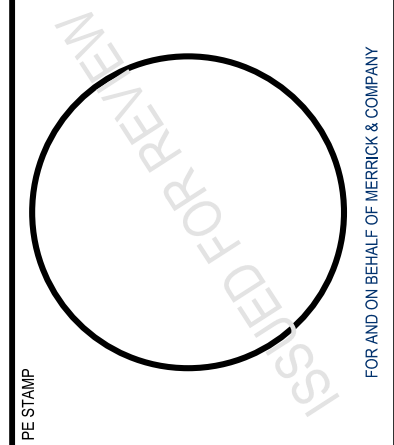
STANDARD ABBREVIATIONS

ARV	AIR RELEASE VALVE
APPROX	APPROXIMATE
CL	CENTERLINE
CONC	CONCRETE
CONN	CONNECTION
CS	CURB STOP
CU	CUBIC
DEMO	DEMOLITION
DI	DUCTILE IRON
DWG	DRAWING
E	EASTING
EG	EXISTING GRADE
FL	FLANGE
FIP	FEMALE IRON PIPE
FT	FEET/FOOT
GR	GRADE
GV	GATE VALVE
ID	INSIDE DIAMETER
IN	INCH
LF	LINEAR FEET
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTHING
NO	NUMBER
NST	NATIONAL STANDARD THREAD
OD	OUTSIDE DIAMETER
HDPE	HIGH DENSITY POLYETHYLENE (PIPE)
MJ	MECHANICAL JOINT
STA	STATION
TOP	TOP OF PIPE
TYP	TYPICAL



NO.	REV	REVISION DESCRIPTION	DATE	CHKD	APPD

PINEWOOD SPRINGS
WATER IMPROVEMENTS
COVER SHEET



JOB NUMBER	100472
DATE	DECEMBER 2024
SHEET	1 OF 12



FOR REVIEW

THE NEW SPRINGS ELECTRICITY METER ENCLOSURE IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY FOR A FUTURE PROJECT. REUSE OR MODIFICATION OF ANY UTILITARIAN NOT A FUTURE INSTRUMENT WITHOUT THE PRIOR WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S RISK. THE USER ASSUMES ALL LIABILITY TO OBTAIN NECESSARY PERMITS AND CONSENTS.

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GENERAL NOTES

- 1. ALL CONSTRUCTION WORK WILL CONFORM TO THE PINWOOD SPRINGS WATER DISTRICT STANDARDS AND THE CONSTRUCTION PLANS, SPECIFICATIONS, AND AMENDMENTS.
2. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL PERMITS NECESSARY AS APPLICABLE TO COMPLETE THE WORK AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
3. CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, BONDS, ETC. WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
4. UNLESS OTHERWISE NOTED, ALL REMOVAL ITEMS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
6. THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY THEIR CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN THE DEDICATED RIGHT-OF-WAY AND ALL MATERIALS AND WORKMANSHIP SHALL MEET THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS OF THE APPROPRIATE GOVERNING AGENCY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AT LEAST 48 HOURS ADVANCED NOTICE OF ANY NEED TO SHUT DOWN ANY PORTION OF THE EXISTING WATER SYSTEM FOR CONSTRUCTION, OBSERVATION, AND/OR REQUIRED INSPECTIONS.
9. THE CONTRACTOR IS REQUIRED TO PROVIDE AS-CONSTRUCTED HORIZONTAL AND VERTICAL CONSTRUCTION INFORMATION, INCLUDING THE LOCATIONS OF ALL SANITARY LINES AND SERVICES, WATER LINES AND SERVICES, AND OTHER UTILITY LINES AND SERVICES TO THE ENGINEER FOR PREPARATION OF AS-BUILT DOCUMENTS.
10. LIMITS OF CONSTRUCTION AND RIGHTS-OF-WAY SHALL BE DELINEATED WITH TEMPORARY STAKING BY THE CONTRACTOR. SAFETY FENCING SHALL BE PER APPROPRIATE GOVERNING AGENCY.
11. THE CONTRACTOR SHALL PROTECT ALL PROPERTY ADJACENT TO THE PROJECT WORK SITE.
12. THE OWNER SHALL RETAIN AND PAY FOR SERVICES OF AN INDEPENDENT INSPECTOR TO PERFORM SITE INSPECTIONS AND CONSTRUCTION MATERIALS TESTING.
13. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS.
14. AFTER ACCEPTANCE BY THE OWNER, PUBLIC IMPROVEMENTS DEPICTED IN THESE PLANS SHALL BE GUARENTEED TO BE FREE FROM MATERIAL AND WORKSMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.
15. UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A FULLY STABILIZED CONDITION, OR TO THE GRADES AND CONDITION AS REQUIRED BY THESE PLANS.

SURVEY AND UTILITY NOTES

- 1. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.
2. PROPERTY LINES HAVE BEEN IMPORTED FROM THE LARIMER COUNTY ASSESSOR AND MAY NOT DISPLAY ACCURATELY OVER THE AERIAL BACKGROUNDS.
3. ALL EXISTING UTILITIES SHOWN, CURB STOP LOCATIONS, AND INDIVIDUAL WATER MAIN AND SERVICE SIZES WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY.

- ASSUMES NO RESPONSIBILITY FOR THE COMLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES OR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
4. LOCATIONS OF EXISTING UTILITIES BY POTHOLING OR OTHER LOCATING MEANS AND METHODS, OF ALL EXISTING UTILITIES WITHIN THE WORK ZONE PRIOR TO THE START OF ANY PROJECT CONSTRUCTION.
4. WATER MAIN LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE WATER MAINS AND ADJUST CONNECTION POINTS, TIE-INS, AND TAP LOCATIONS AS REQUIRED AND AS APPROVED BY OWNER OR ENGINEER.
5. FIBER OPTIC LINE LOCATIONS ARE DEPICTED IN THEIR APPROXIMATE LOCATIONS AND OBSERVED TO BE SHALLOW AND JUST BELOW GROUND SURFACE IN SOME LOCATIONS.
6. CONTRACTOR TO BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF AND PROTECTING ALL EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN OR SHOWN INCORRECTLY ON THE PLANS.
7. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD ELECTRICAL, GAS, TELEPHONE, CABLE, AND FIBEROPTIC LINES WITH THE APPLICABLE JURISDICTIONAL AUTHORITY.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS AND/OR RECONSTRUCTION OF ALL UTILITY COVER (MANHOLE FRAMES AND COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.

SUPPLEMENTAL WATER NOTES

- 1. NEW WATER METERS WILL BE SUPPLIED AND INSTALLED BY THE PINWOOD SPRINGS WATER DISTRICT. METERS WILL BE SPECTRUM JET 30D, 7.5" LAY LENGTH, WITH INNOV8VN, AND 5-,12-, OR 20-FT PADDLE ANTENNA
2. CONTRACTOR SHALL PROVIDE AND INSTALL RESETTER METER YOKE WITH SAMPLE STATION AT METER PIT LOCATIONS DESIGNATED IN THE PLAN SET
3. WATER MAIN PIPING SHALL BE 4-INCH HDPE, DR 11 CLASS 200 IPS.
4. HDPE ANCHOR BLOCKS CONSTRUCTION SHALL BE COMPLETED NO SOONER THAN 24 HOURS AFTER PIPE IS LAID AND HAS BEEN ALLOWED TO EQUILIBRIATE WITH SURROUNDING SOILS.
5. HDPE PIPE RUNS CONNECTING TO FIXED VALVES, FITTINGS, AND EXISTING PIPE SHOULD BE MADE AFTER THE PIPE HAS EQUILIBRATED TO THE SURROUNDING SOILS.
6. HDPE ELBOWS AND FITTINGS SHALL BE OF THE MANUFACTURED MOLDED STYLE MATCHING PIPE WALL AND PRESSURE RATINGS. MITERED ELBOWS AND FITTINGS WILL NOT BE ALLOWED.
7. WATER MAINS SHALL HAVE MINIMUM OF SIX (6) FEET BURY DEPTH TO TOP OF PIPE.
8. MECHANICAL RESTRAINTS, FITTINGS, DUCTILE IRON, AND BURIED METAL PIPE COMPONENTS SHALL BE POLYWRAPPED IN ACCORDANCE WITH AWWA C105
9. GATE VALVES SHALL BE MECHANICAL JOINT MEETING AWWA C515 WITH TWO (2) INCH OPERATING NUT AND FUSION BONDED EPOXY COATING.
10. VALVES GREATER THAN 1" SHALL HAVE D.I. VALVE BOXES, SERVICE LINE CURB STOPS TO HAVE CURB STOP RISERS
11. COUPLINGS SHALL BE FULLY RESTRAINED ROMAC ALPHA OR EQUAL.
12. ALL VALVES AND FITTINGS SHALL BE MECHANICALLY RESTRAINED.
13. SERVICE TAPS SHALL BE 4" X 1" ELECTROFUSION TAPPING SADDLE
14. SERVICE PIPING SHALL BE 1" HDPE SDR 11 CTS
15. INSTALL CARSONITE WATER LINE LOCATE POSTS AT FLUSHING HYDRANT BOXES AND ISOLATION VALVES.
17. WHERE EXISTING TO BE ABANDONED PIPE IS CUT, THE END SHALL BE CAPPED WITH A CONCRETE PLUG.
18. WHERE EXISTING VALVES, CURB STOPS, YARD HYDRANTS, FLUSHING HYDRANTS, AND SIMILAR FEATURES ARE TO BE REMOVED FROM THE TO-BE-ABANDONDED MAINS.

- 19. CONTRACTOR SHALL ADJUST WATER MAIN GRADIENT AS NEEDED SUCH THAT FLUSHING HYDRANTS ARE SITUATED AT LOCALIZED HIGH POINTS TO ACCOMMODATE AIR RELEASE.
20. FINAL FLUSHING HYDRANT POSITIONING SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
21. THE CONTACTOR SHALL PERFORM A PRESSURE TEST, LEAKAGE TEST (AS APPLICABLE), A TRACER WIRE CONTINUITY TEST, AND VALVE OPERATION TEST WITNESSED BY THE OWNER AND/OR ENGINEER MEETING THE SPECIFIED STANDARDS.
22. THE CONTRACTOR SHALL PERFORM A CHLORINE AND BACTERIOLOGIC TEST PER THE CONSTRUCTION SPECIFICATIONS.
23. REPLACEMENT WATER SERVICE LOCATIONS MAY BE FIELD ADJUSTED FROM THE LOCATIONS SHOWN ON THE PLANS TO AVOID LARGE ROCKS, TREES OR OTHER OBSTRUCTIONS OR TO FIT SERVICE LINE LOCATIONS TO THE RESIDENCE.

TRAFFIC CONTROL

- 1. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS OR OTHER DEVICES NECESSARY FOR SAFE TRAFFIC CONTROL IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS MODIFIED BY THE COLORADO SUPPLEMENT TO THE MUTCD.
2. TRAFFIC CONTROL PLANS SHALL BE PROVIDED FOR ANY ROAD CLOSURES, DETOURS, OR IMPACTS TO VEHICLE MOVEMENTS.
3. APPROVAL OF TRAFFIC CONTROL PLANS SHALL BE COORDINATED WITH THE PINWOOD SPRINGS FIRE PROTECTION DISTRICT AND ACCOMMODATE PLANS FOR EMERGENCY VEHICLE ACCESS.
4. DEAD END ROADS SHALL BE RE-OPENED DURING WEEKENDS AND NIGHTLY BETWEEN 5 PM AND 8 AM AND DAILY FROM 12 PM TO 1 PM FOR LOCAL TRAFFIC ACCESS.
5. TRAFFIC PLANS SHALL INDICATE RESIDENTIAL PARKING AREAS WHEN ROAD CLOSURE CONSTRUCTION RESTRICTS ACCESS.
6. NOTIFY THE POLICE/SHERIFF DEPARTMENT, EMERGENCY SERVICES, SCHOOL DISTRICT, AND LOCAL SERVICES BEFORE CLOSING ROADWAY OR PORTION THEROF.

EROSION AND SEDIMENT CONTROL:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A STORMWATER MANAGEMENT PLAN (SWMP) AS REQUIRED BY THE WATER QUALITY CONTROL DIVISION OF THE CDPHE.
2. THE CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR PROVIDING ADEQUATE EROSION CONTROL AND WATER QUALITY THROUGHOUT THE DURATION OF THE PROJECT.
3. TO MITIGATE EROSION, THE CONTRACTOR SHALL USE STANDARD EROSION CONTROL TECHNIQUES DESCRIBED IN THE URBAN STORM DRAINAGE CRITERIA MANUAL, VOLUME 3 - BEST MANAGEMENT PRACTICES.
4. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO INITIATING ANY WORK ON THE PROJECT SITE.
5. ALL STORM DRAIN INLETS WITHIN OR NEAR THE SITE THAT ARE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED WITH FILTER FABRIC OR A SIMILAR APPROACH TO REMOVE SEDIMENT FROM STORMWATER RUNOFF PRIOR TO ENTERING THE STORM DRAIN SYSTEM.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO MUD OR DEBRIS SHALL BE TRACKED ONTO THE EXISTING PUBLIC STREET SYSTEM.
7. PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AROUND TREES AND PLANTS NEAR THE WORK ZONE.
8. THE CLEANAING OF CEMENT TRUCK DELIVERY CHUTES SHALL OCCUR IN A PREDETERMINED CONTAINMENT AREA.



Table with 10 columns and 1 row for revision tracking. Headers include DATE and REVISION DESCRIPTION.

PINEWOOD SPRINGS WATER IMPROVEMENTS GENERAL NOTES

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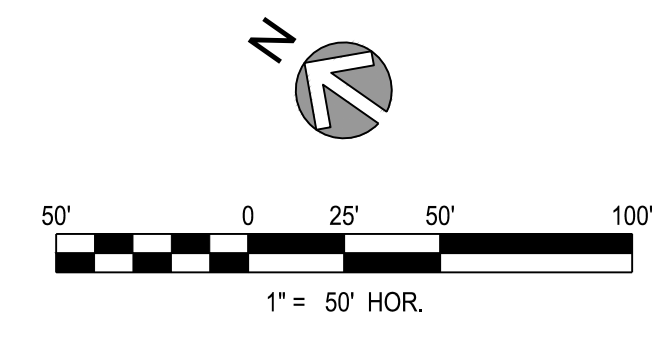
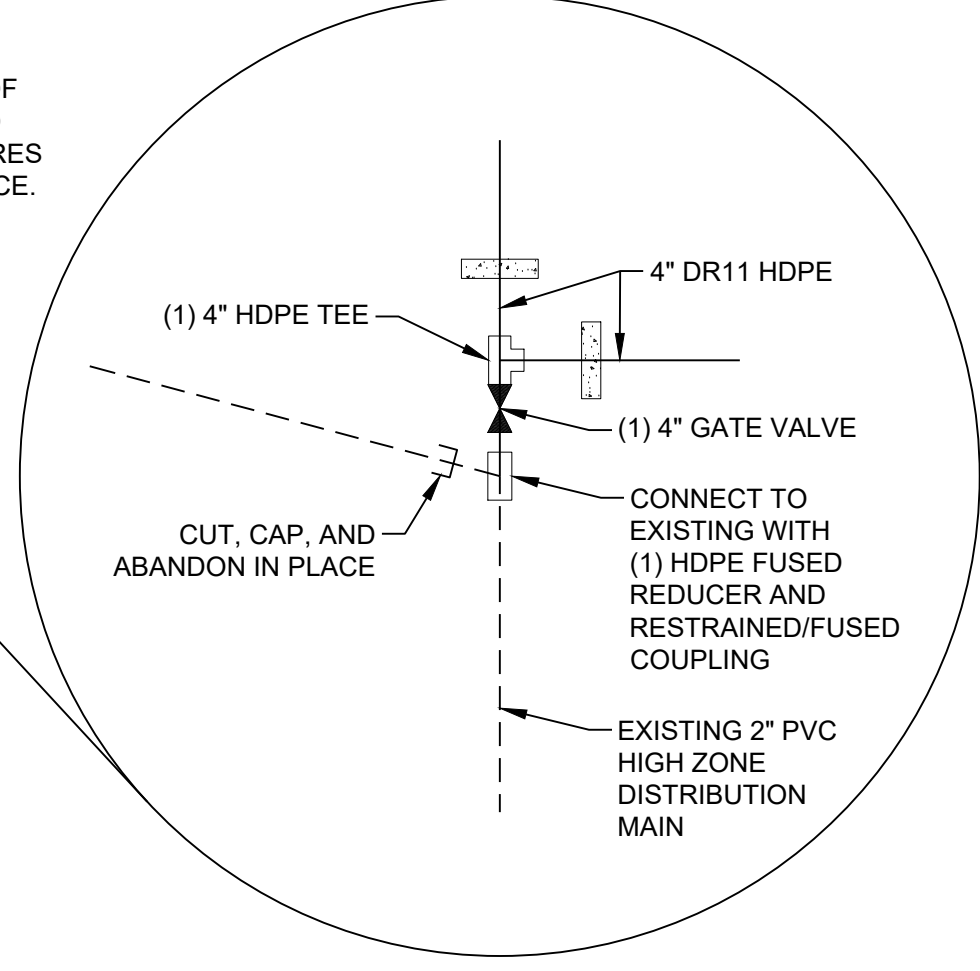
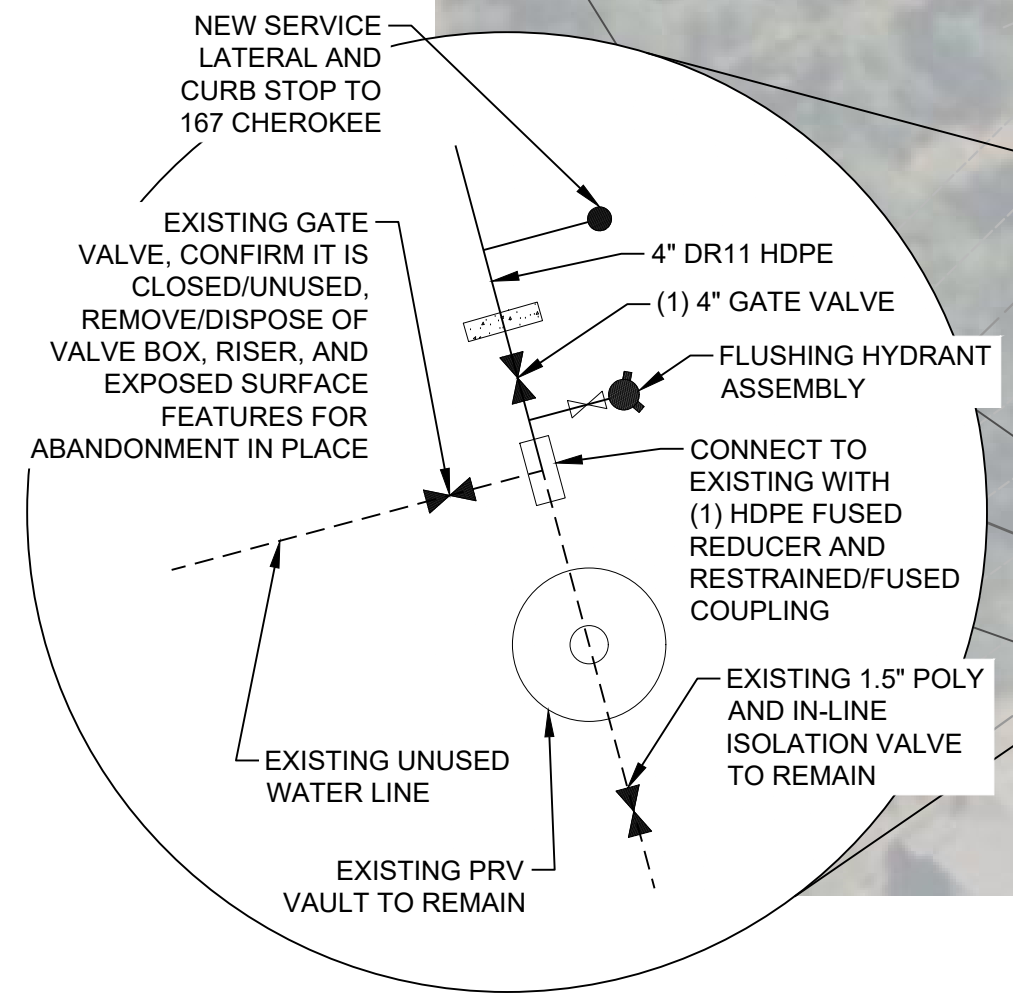


MATCH LINE SEE SHT. 4

MATCH LINE SEE SHT. 5

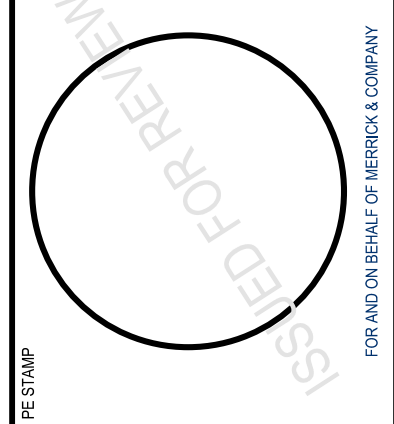
SHEET NOTES:

- ① PROVIDE AND INSTALL NEW SERVICE LINE, NEW CORP STOP, NEW CURB STOP, AND SET NEW METER PIT. CONNECT TO EXISTING SERVICE LINE DOWNSTREAM OF METER PIT. REMOVE AND DISPOSE OF EXISTING CURB STOP AND METER PIT.
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- ③ REMOVE EXISTING METER PIT AND REPLACE WITH SERVICE LINE PATCH AND COUPLINGS TO EXISTING SERVICE LINE.



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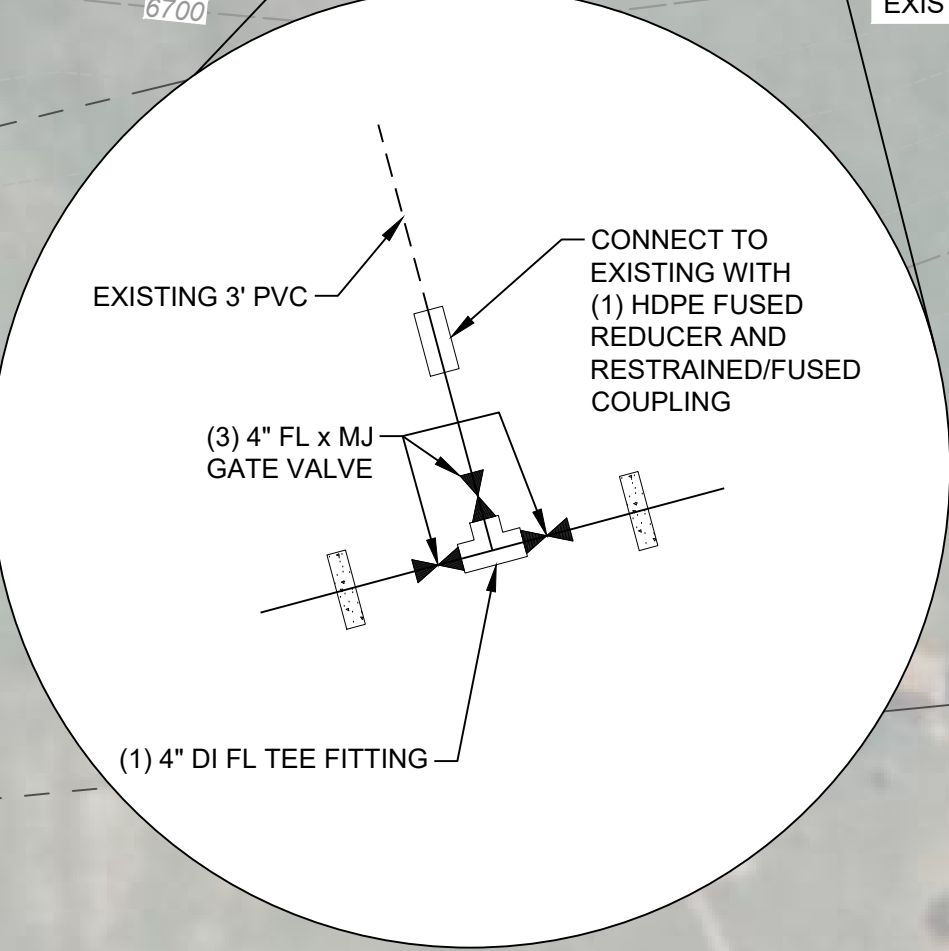
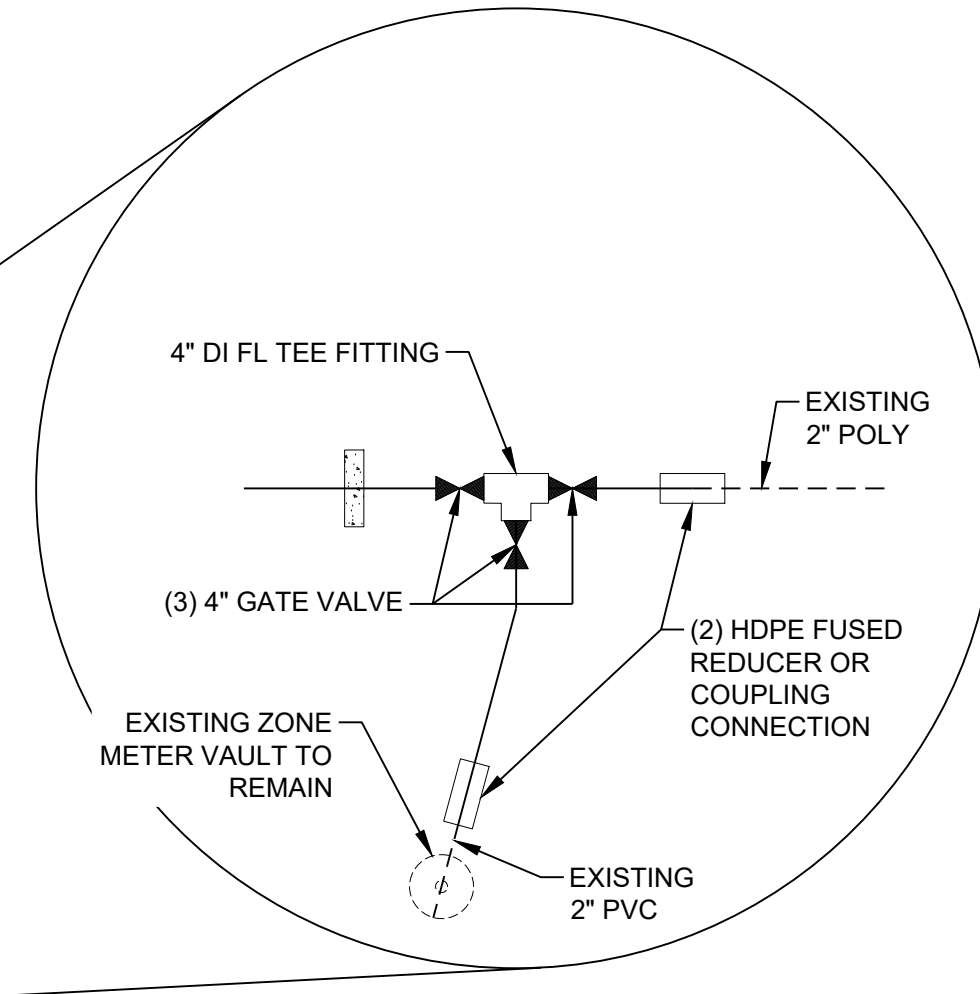
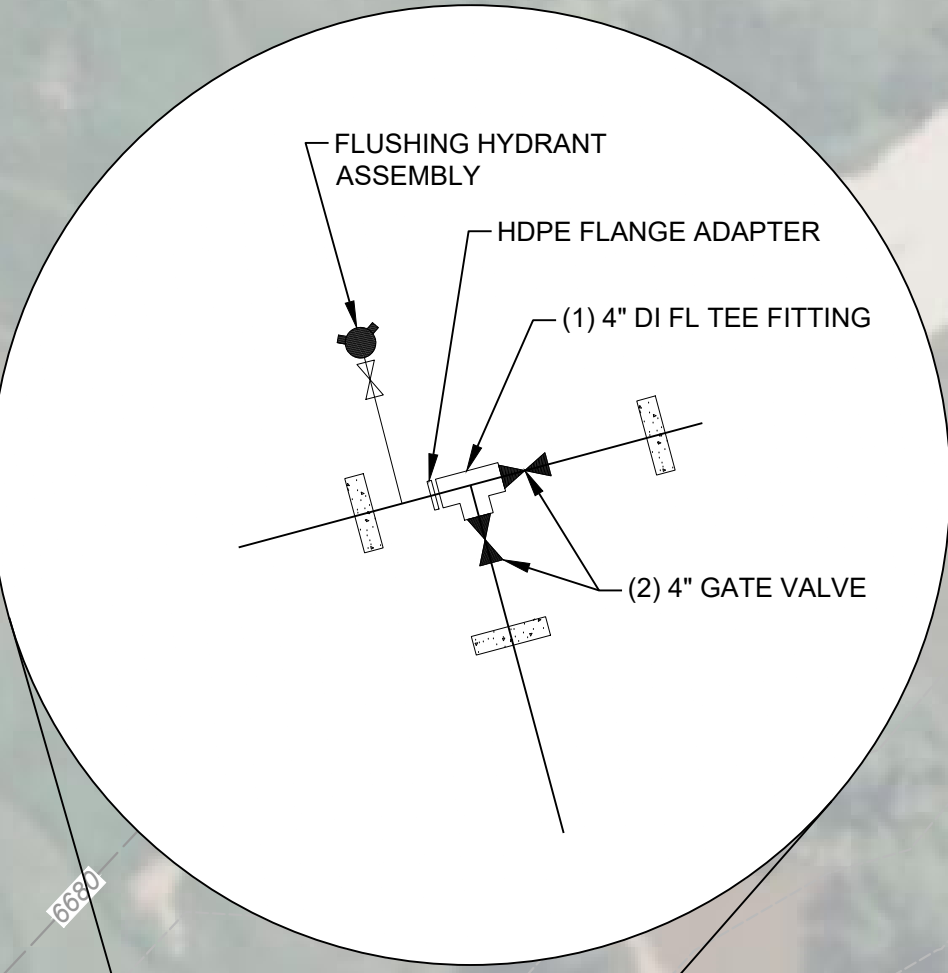
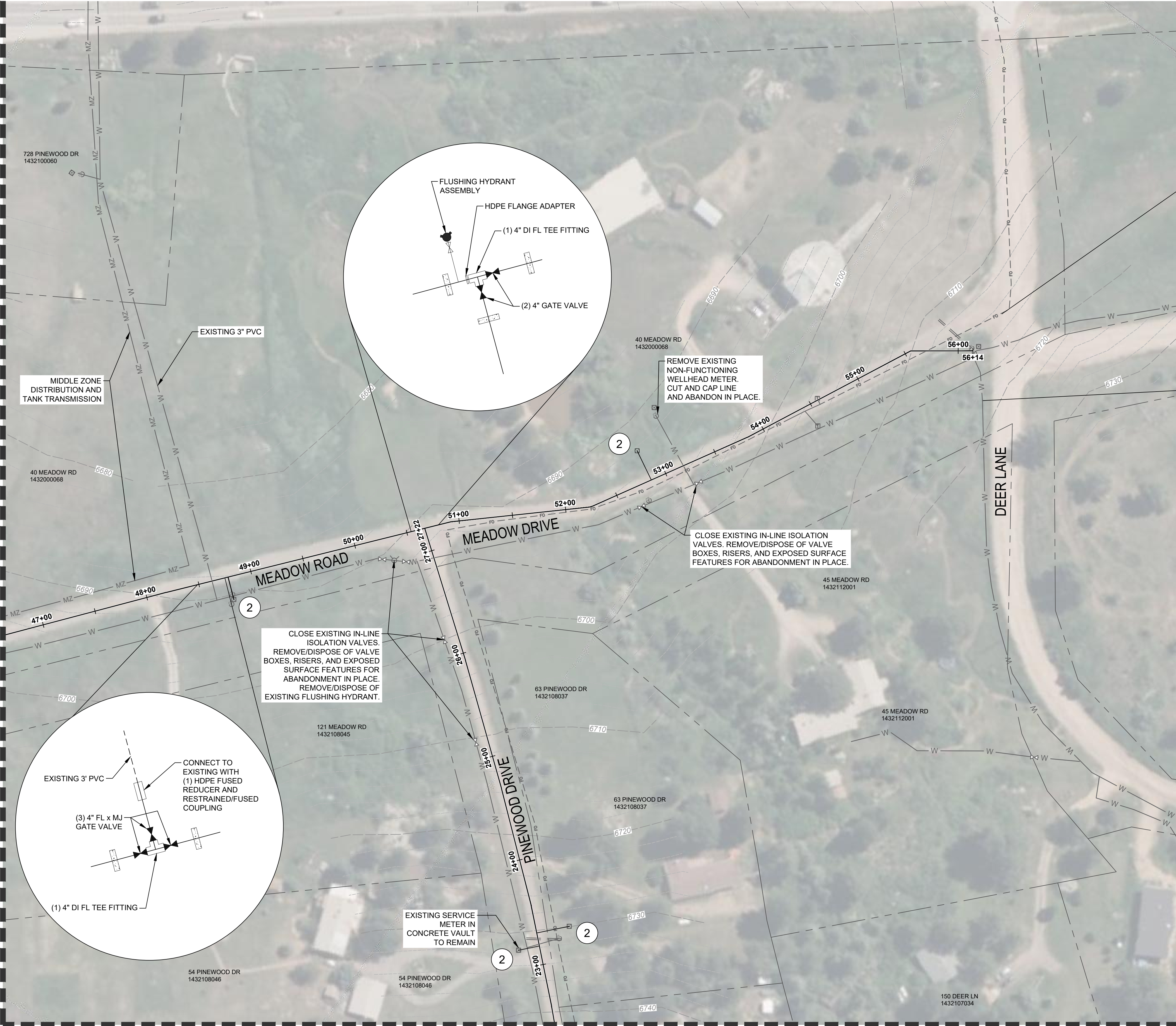
**PINEWOOD SPRINGS
WATER IMPROVEMENTS
WATERLINE PLAN
REGION A**



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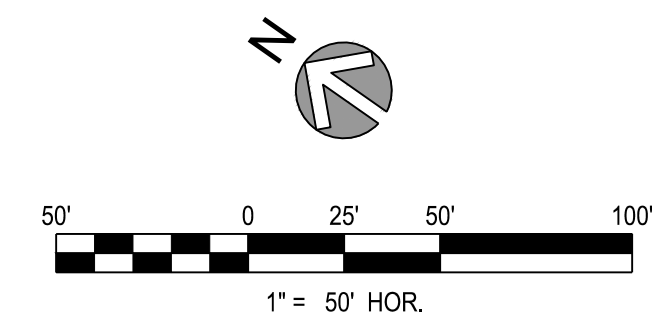
MATCH LINE SEE SHT. 3



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- ③ REMOVE EXISTING METER PIT AND REPLACE WITH SERVICE LINE PATCH AND COUPLINGS TO EXISTING SERVICE LINE.

MATCH LINE SEE SHT. 5



5970 GREENWOOD PLAZA BLVD, GREENWOOD VILLAGE, CO. 80111
303-751-0741
www.merrick.com

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PINEWOOD SPRINGS WATER IMPROVEMENTS WATERLINE PLAN REGION A

JOB NUMBER
100472

DATE
OCTOBER 2024

SHEET

FOR AND ON BEHALF OF MERRICK & COMPANY

4 OF 12

MATCH LINE SEE SHT. 3

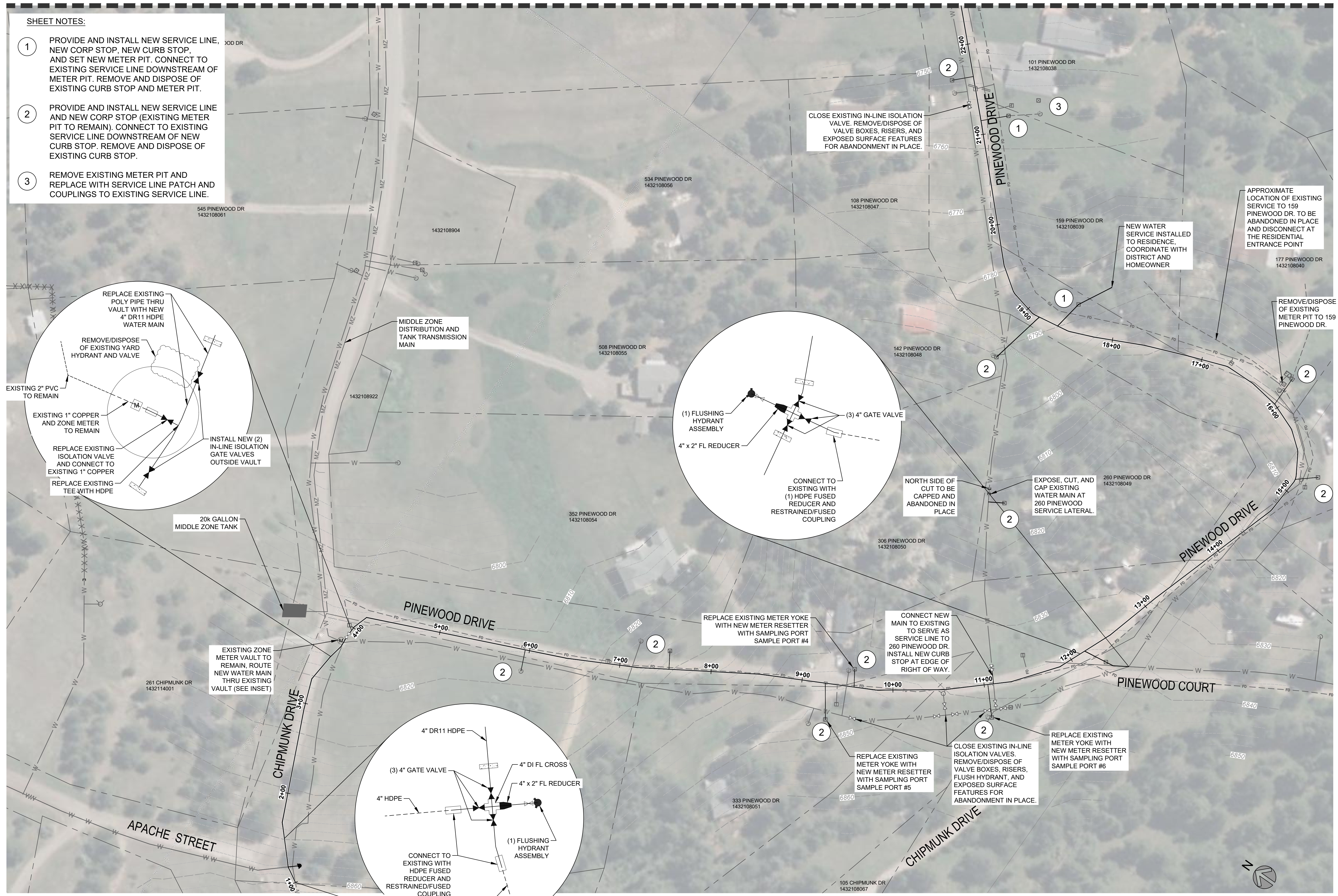
MATCH LINE SEE SHT. 4

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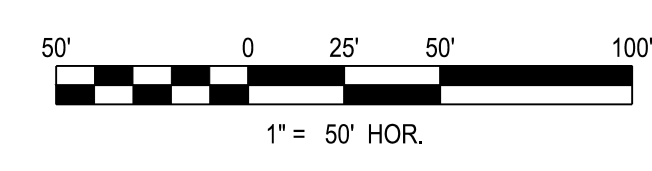


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**PINEWOOD SPRINGS
WATER IMPROVEMENTS
WATERLINE PLAN
REGION A**

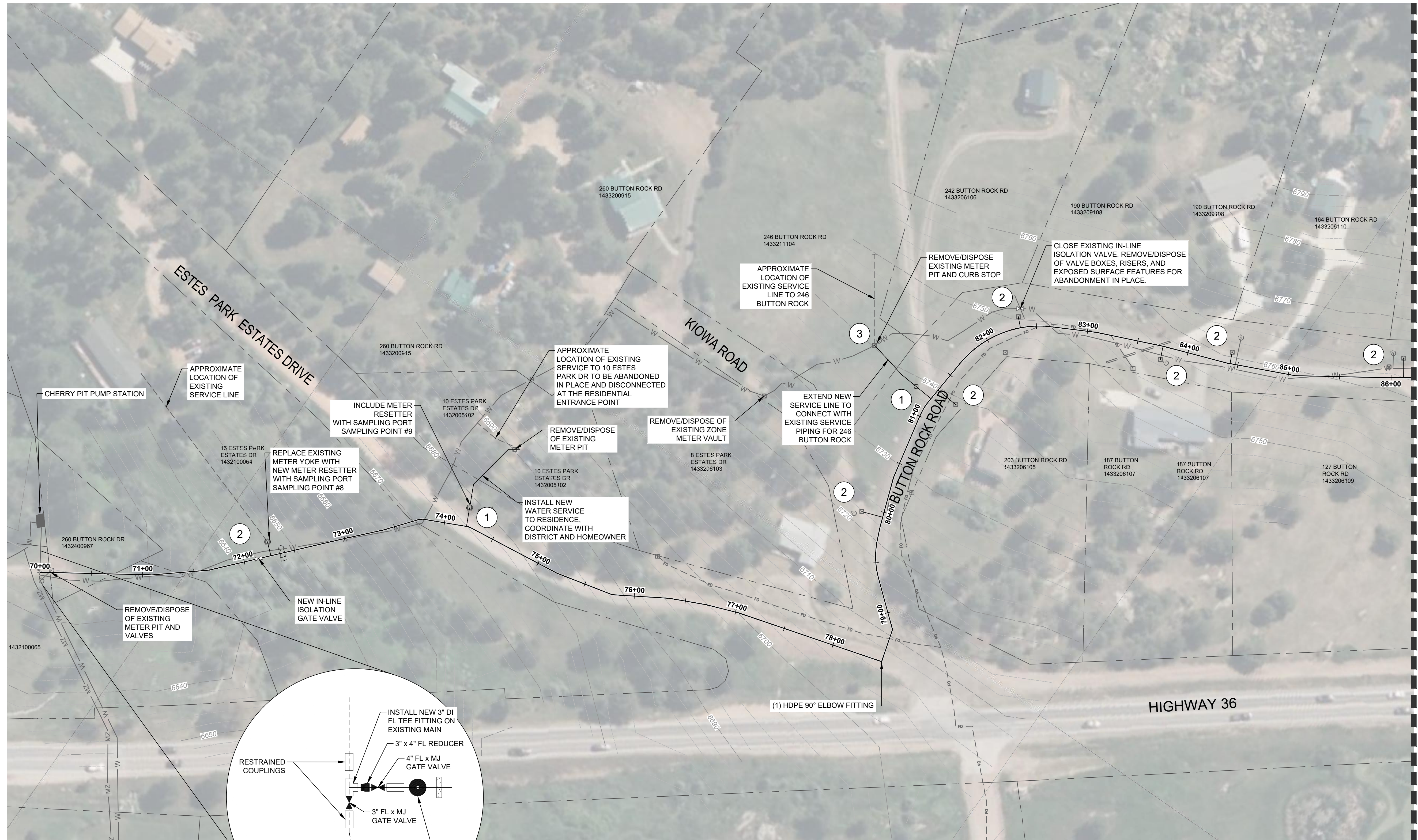


JOB NUMBER: 100472
 DATE: OCTOBER 2024
 SHEET: 5 OF 12



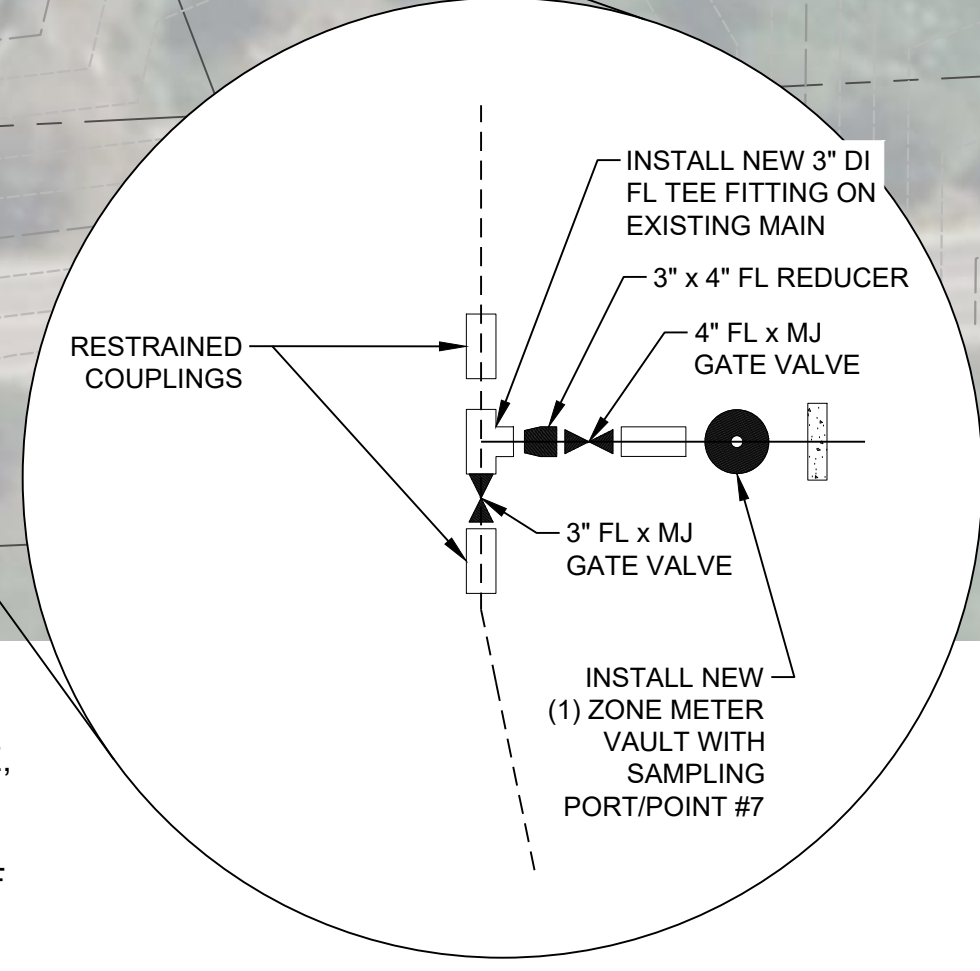
THE NEW OR CHANGED EXISTING WATER INFRASTRUCTURE IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, FOR A SPECIFIC PROJECT. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE OR PART OR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY UTILIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S RISK FOR THE USER'S USE AND TO BE USED AT USER'S RISK AND LIABILITY.

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MATCH LINE SEE SHT. 6

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**PINEWOOD SPRINGS
WATER IMPROVEMENTS
WATERLINE PLAN
REGION B**

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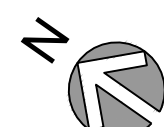
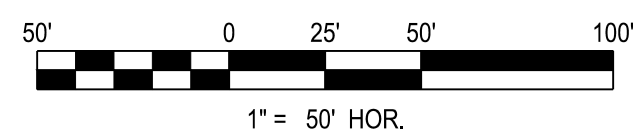
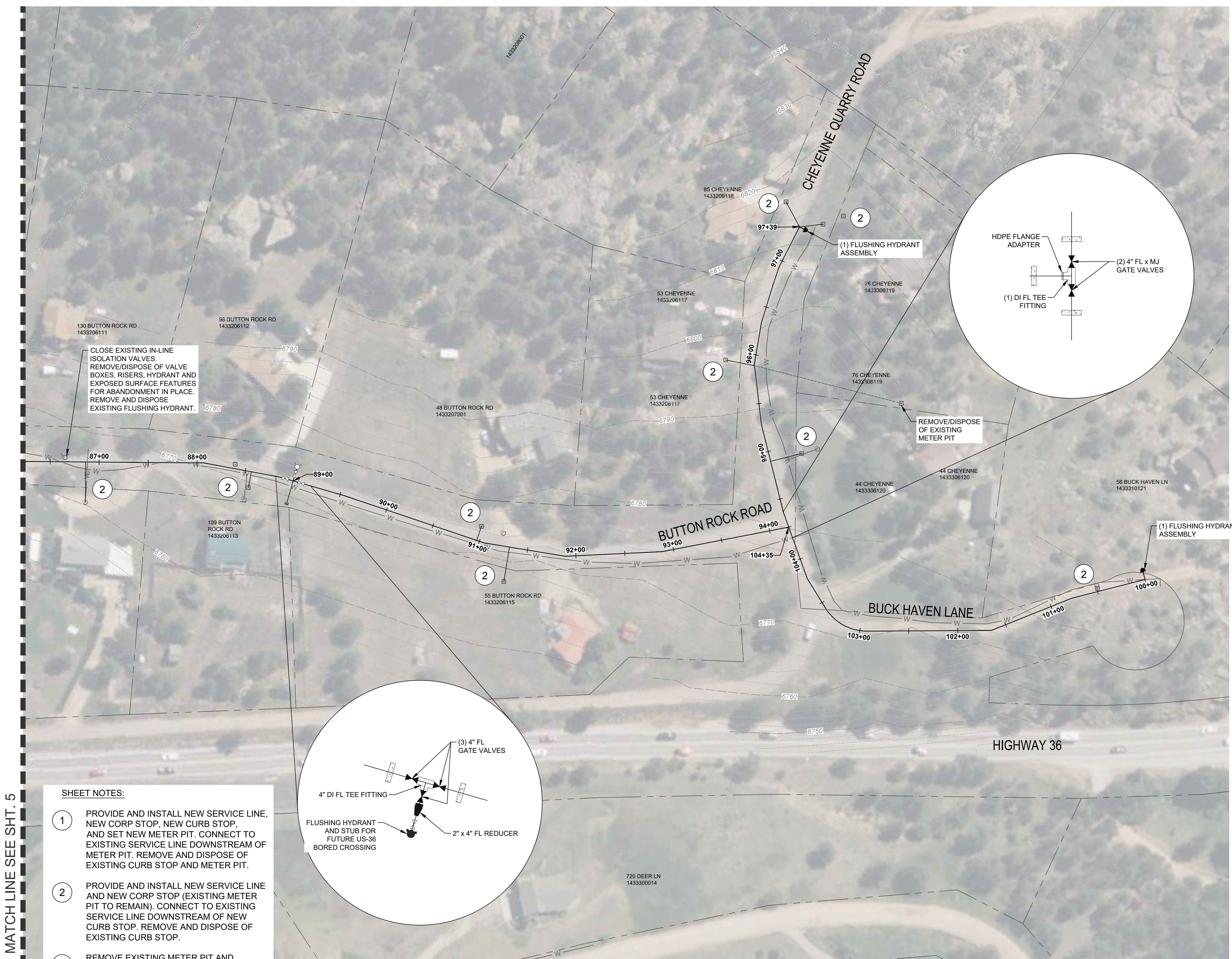
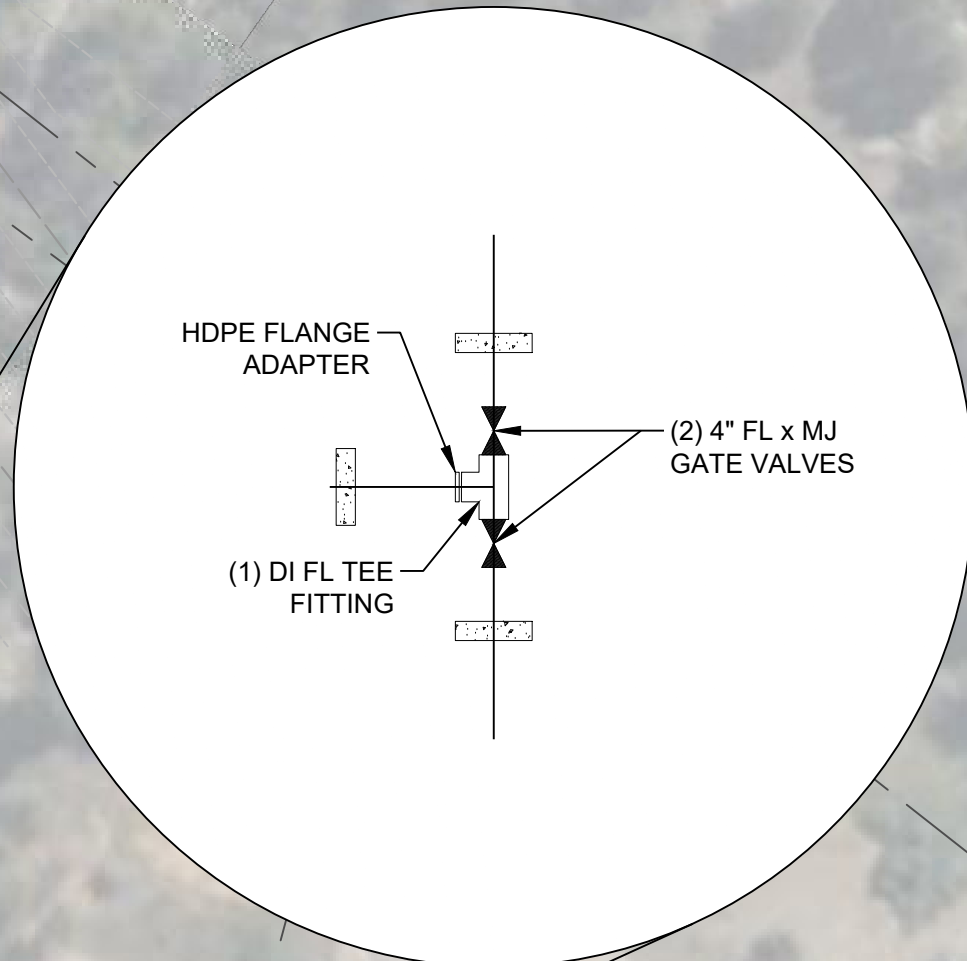
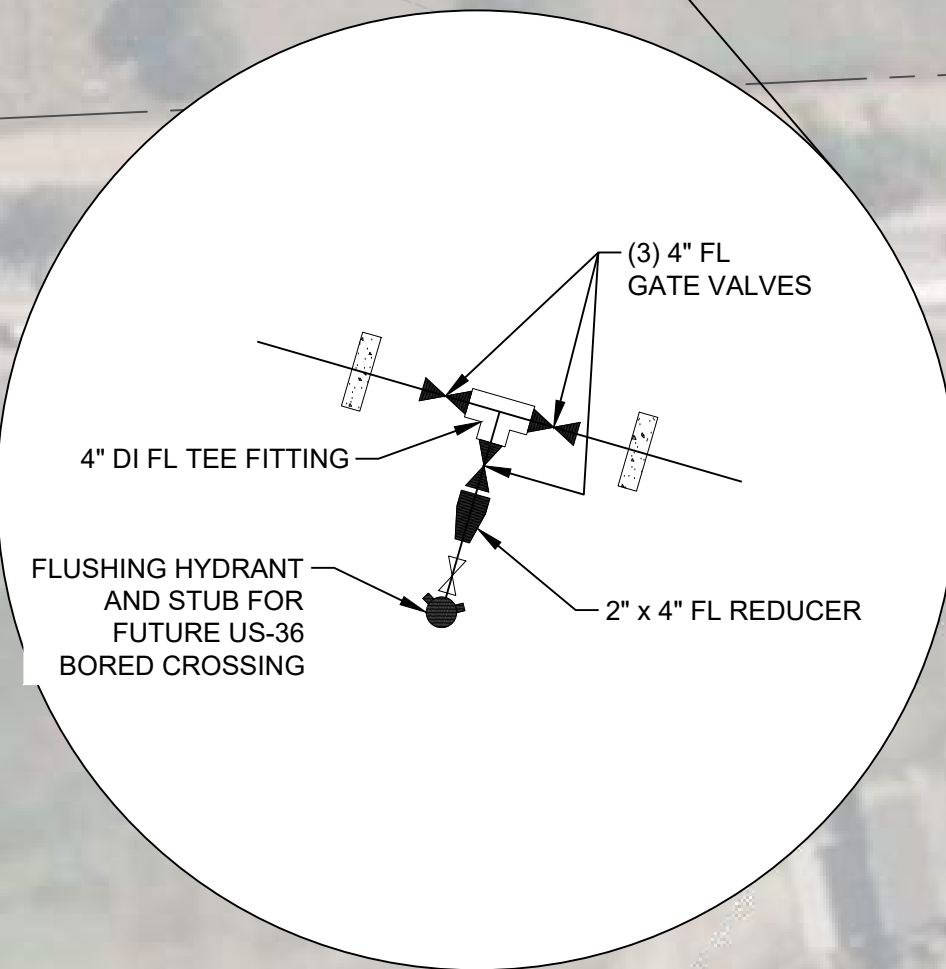
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MATCH LINE SEE SHT. 5

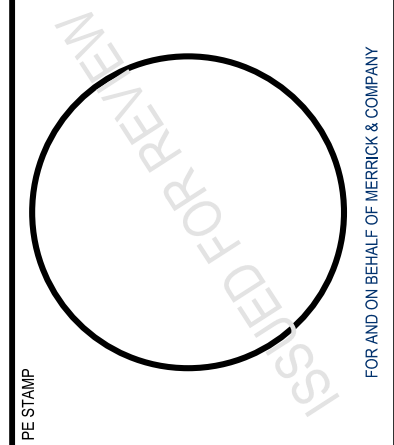
SHEET NOTES:

- 1 PROVIDE AND INSTALL NEW SERVICE LINE, NEW CORP STOP, NEW CURB STOP, AND SET NEW METER PIT. CONNECT TO EXISTING SERVICE LINE DOWNSTREAM OF METER PIT. REMOVE AND DISPOSE OF EXISTING CURB STOP AND METER PIT.
- 2 PROVIDE AND INSTALL NEW SERVICE LINE AND NEW CORP STOP (EXISTING METER PIT TO REMAIN). CONNECT TO EXISTING SERVICE LINE DOWNSTREAM OF NEW CURB STOP. REMOVE AND DISPOSE OF EXISTING CURB STOP.
- 3 REMOVE EXISTING METER PIT AND REPLACE WITH SERVICE LINE PATCH AND COUPLINGS TO EXISTING SERVICE LINE.



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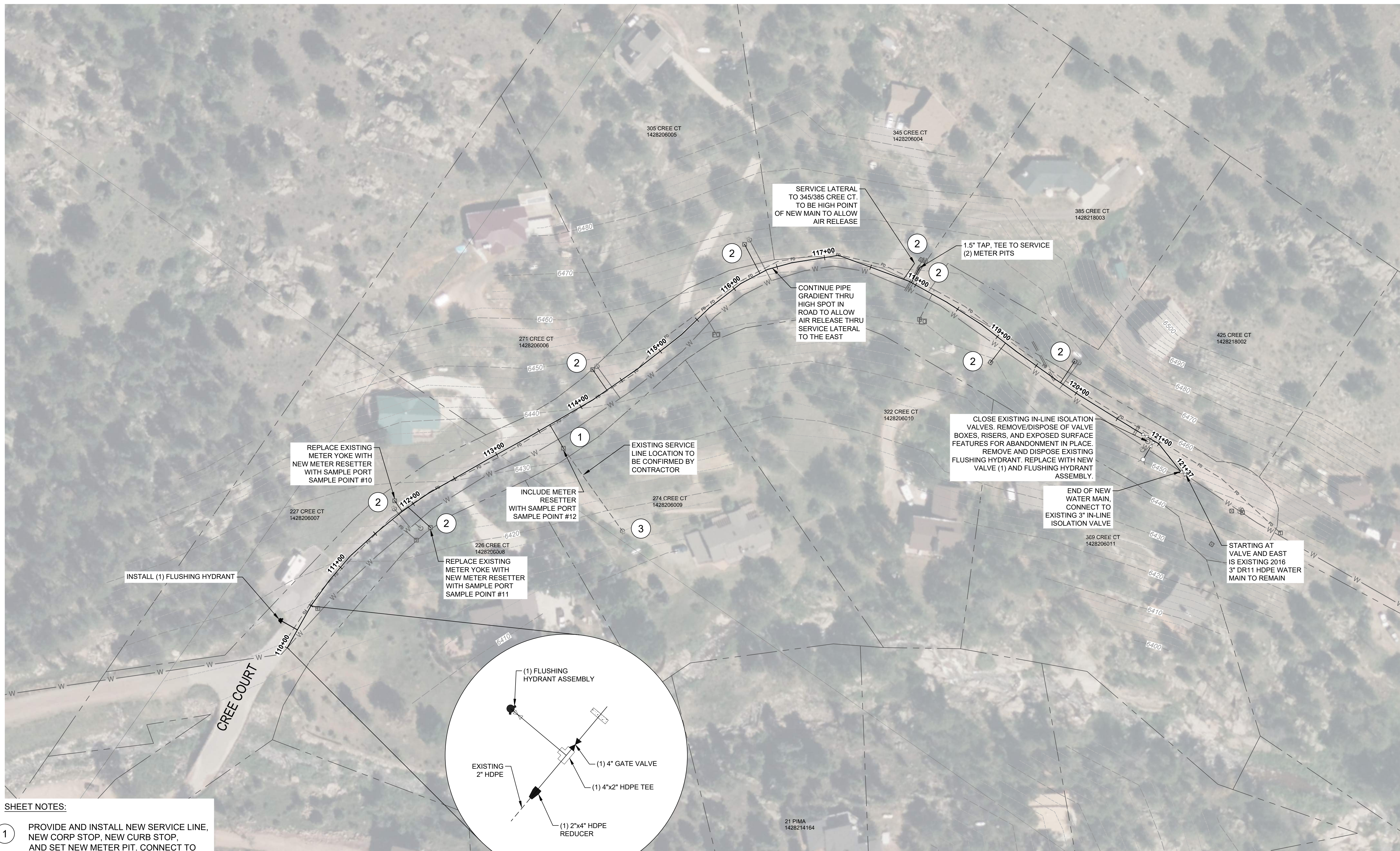
**PINEWOOD SPRINGS
WATER IMPROVEMENTS
WATERLINE PLAN
REGION B**



JOB NUMBER: 100472
DATE: OCTOBER 2024
SHEET: 7 OF 12

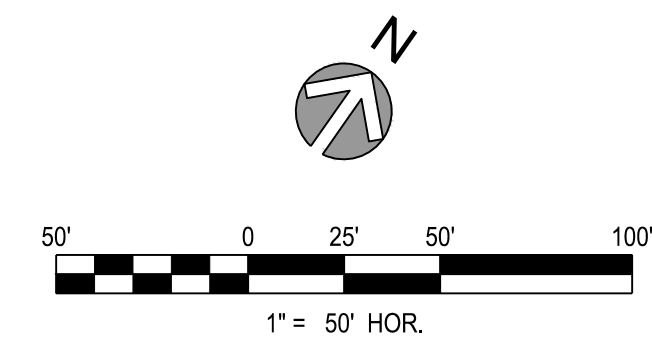
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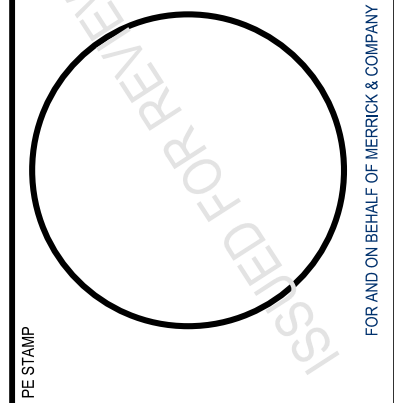
SHEET NOTES:

- ① PROVIDE AND INSTALL NEW SERVICE LINE, NEW CORP STOP, NEW CURB STOP, AND SET NEW METER PIT. CONNECT TO EXISTING SERVICE LINE DOWNSTREAM OF METER PIT. REMOVE AND DISPOSE OF EXISTING CURB STOP AND METER PIT.
- ② PROVIDE AND INSTALL NEW SERVICE LINE AND NEW CORP STOP (EXISTING METER PIT TO REMAIN). CONNECT TO EXISTING SERVICE LINE DOWNSTREAM OF NEW CURB STOP. REMOVE AND DISPOSE OF EXISTING CURB STOP.
- ③ REMOVE EXISTING METER PIT AND REPLACE WITH SERVICE LINE PATCH AND COUPLINGS TO EXISTING SERVICE LINE.



**PINEWOOD SPRINGS
 WATER IMPROVEMENTS
 WATERLINE PLAN
 REGION C**

REV	REVISION DESCRIPTION	DATE	CHKD	APPR

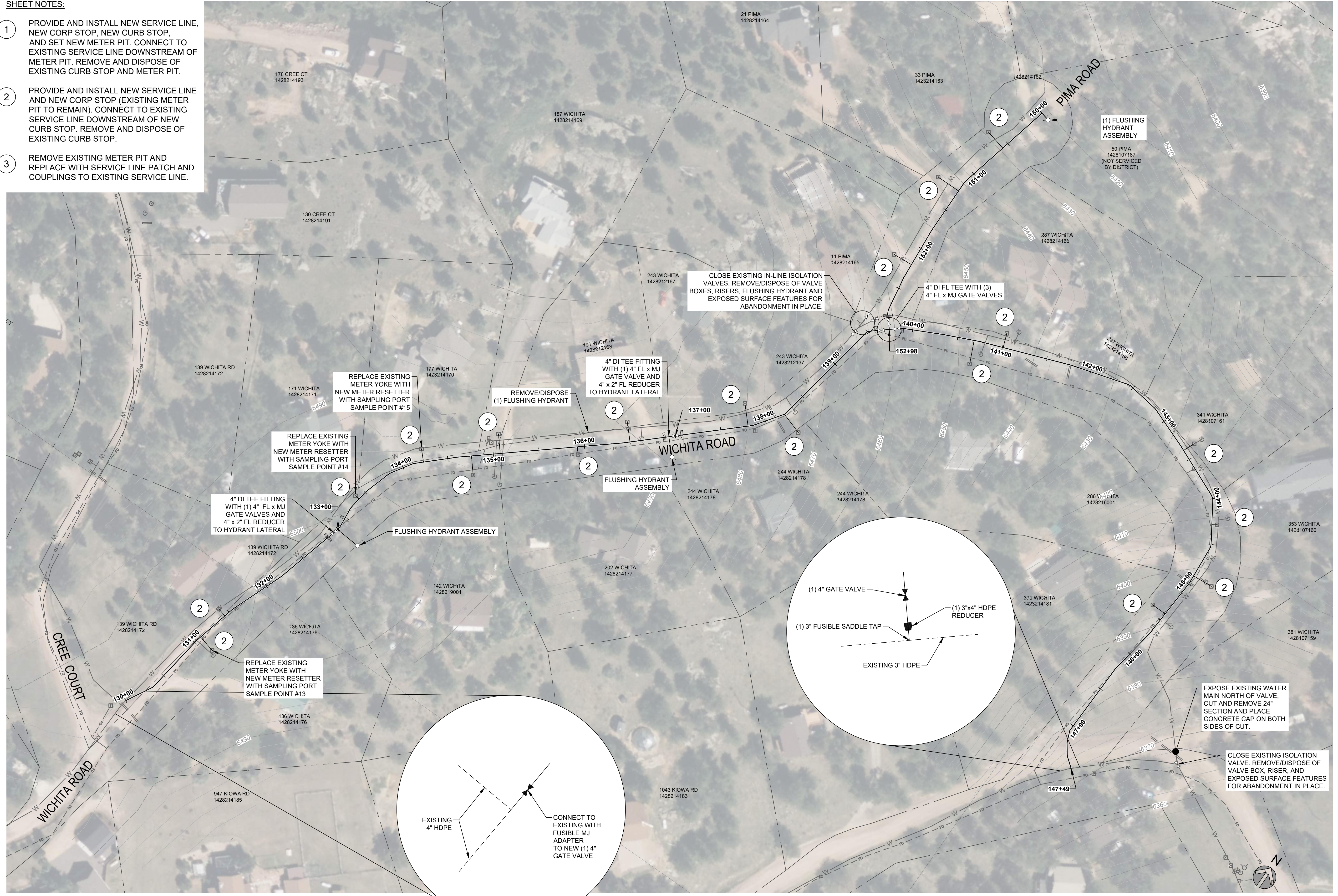


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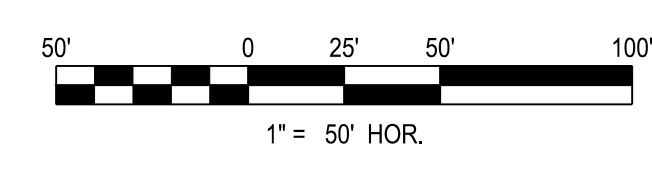
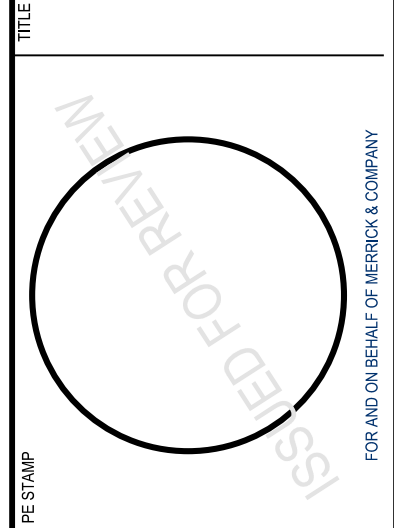
SHEET NOTES:

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- 2 PROVIDE AND INSTALL NEW SERVICE LINE AND NEW CORP STOP (EXISTING METER PIT TO REMAIN). CONNECT TO EXISTING SERVICE LINE DOWNSTREAM OF NEW CURB STOP. REMOVE AND DISPOSE OF EXISTING CURB STOP.
- 3 REMOVE EXISTING METER PIT AND REPLACE WITH SERVICE LINE PATCH AND COUPLINGS TO EXISTING SERVICE LINE.



NO.	DATE	DESCRIPTION	BY	CHECKED	APPROVED

**PINEWOOD SPRINGS
 WATER IMPROVEMENTS
 WATERLINE PLAN
 REGION D**

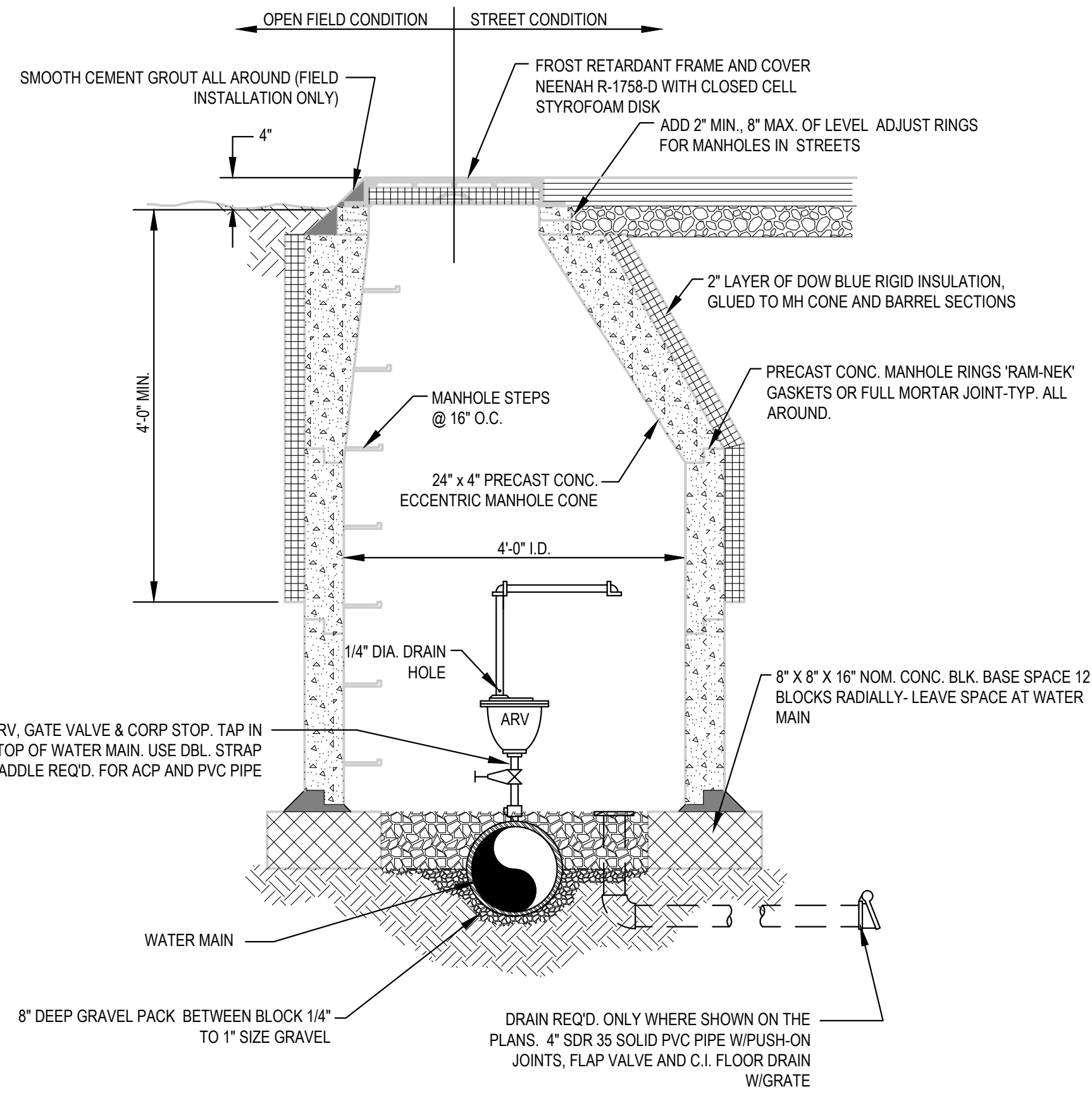


JOB NUMBER: 100472
 DATE: OCTOBER 2024
 SHEET: 9 OF 12



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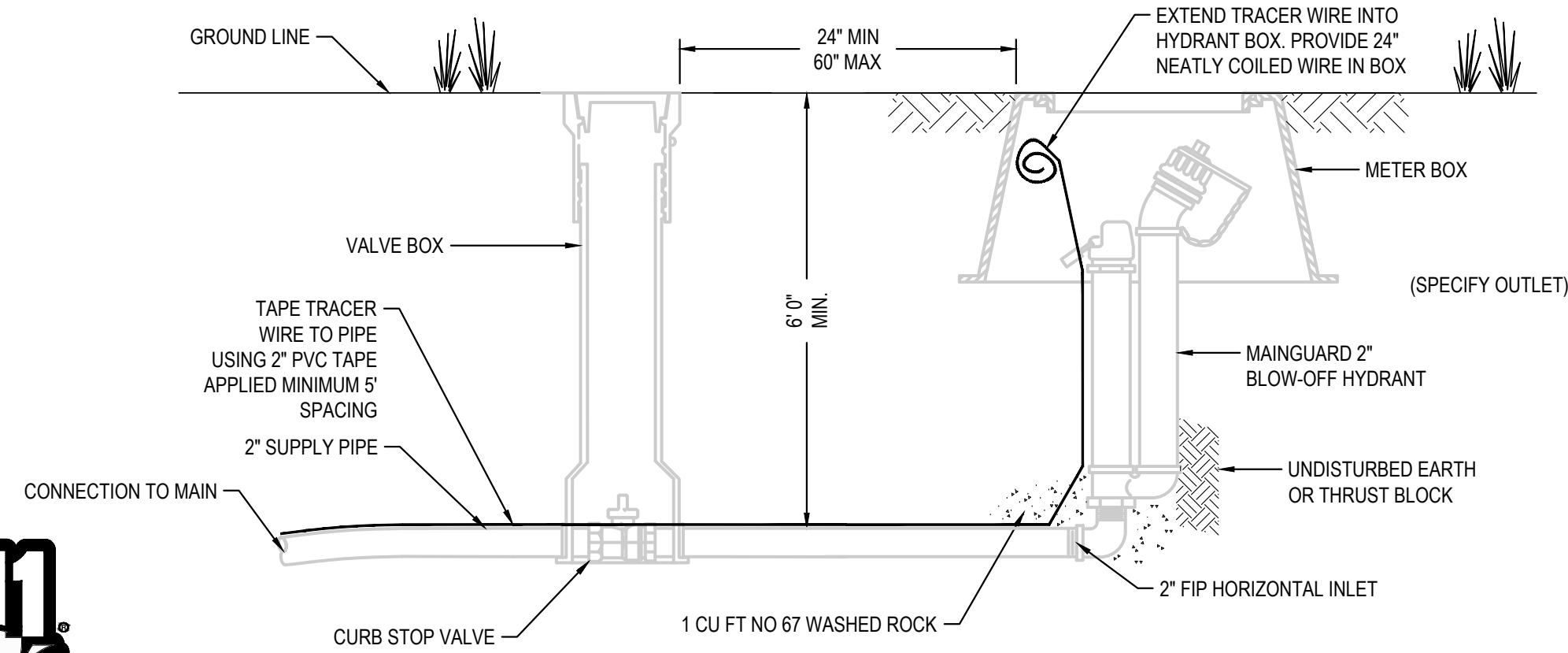
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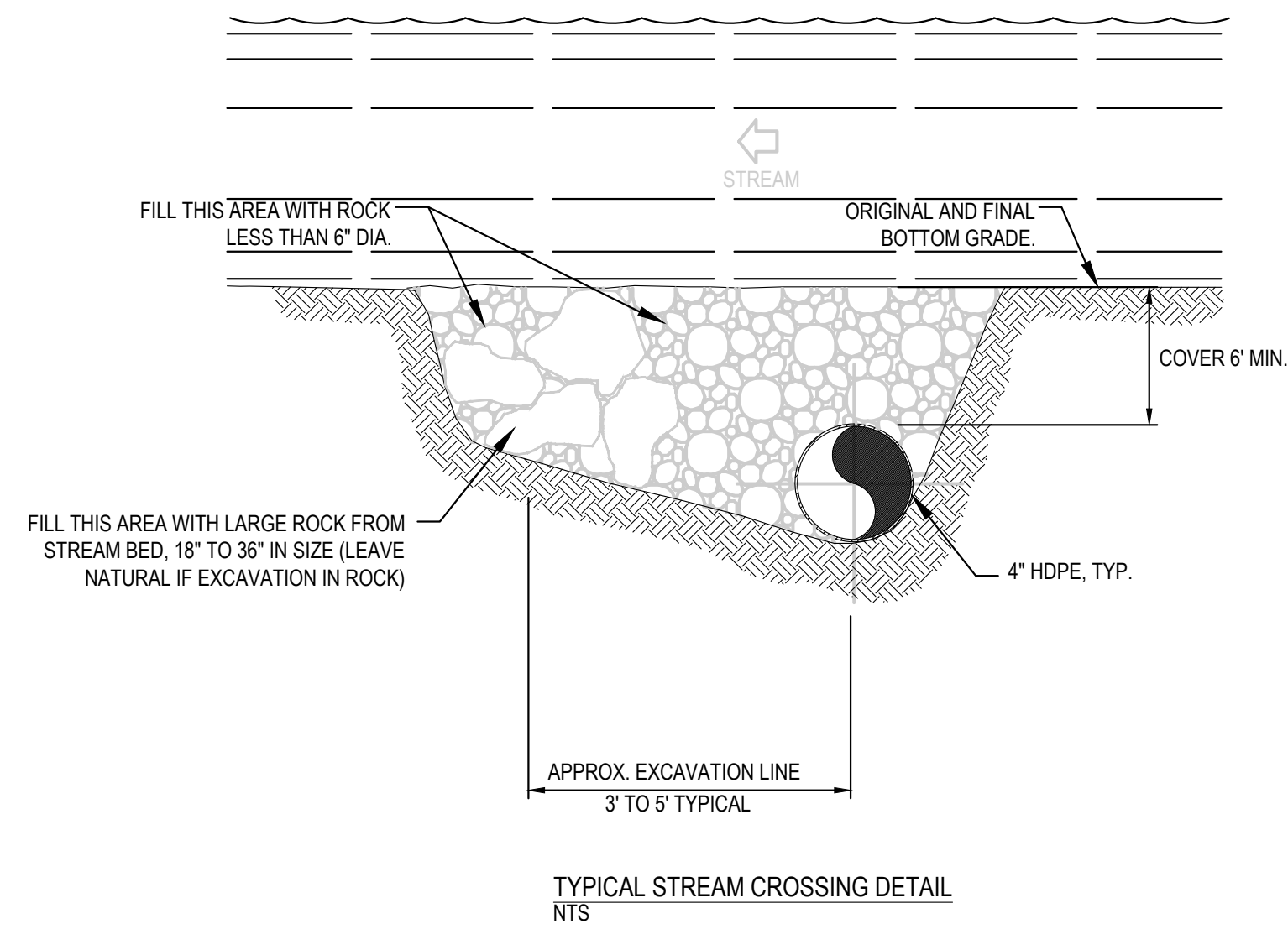
AIR RELEASE VALVE METER PIT DETAIL
NTS

HYDRANT NOTES:

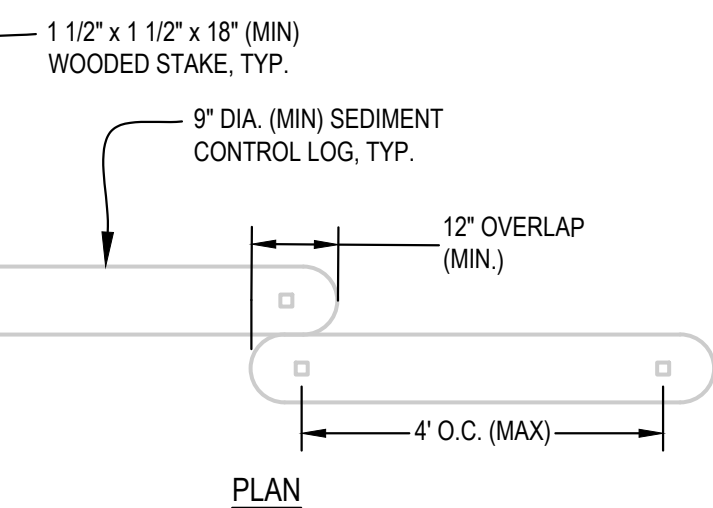
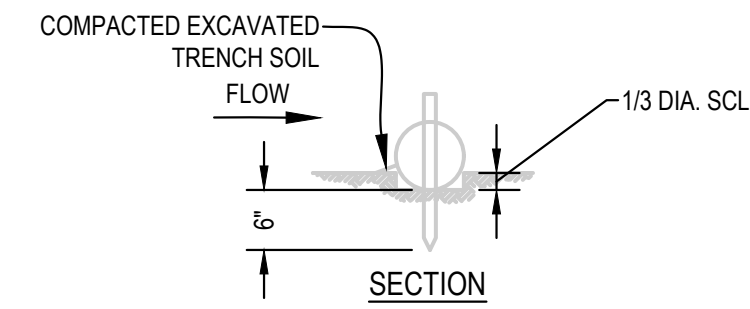
1. HYDRANTS SHALL BE BY KUPFERLE FOUNDRY CO. MAINGUARD NO. 78 OR APPROVED EQUAL.
2. HYDRANTS SHALL BE NON-FREEZING, SELF DRAINING TYPE WITH MIN. 6'-0" BURY.
3. HYDRANTS SHALL BE FURNISHED WITH A 2" FIP HORIZONTAL INLET, NON-TURNING
4. OPERATING ROD AND SHALL OPEN LEFT.
5. HYDRANTS SHALL HAVE A BRONZE OPERATING MECHANISM AND ALUMINUM PLUNGER.
6. THE OUTLET SHALL BE BRONZE AND BE 2-1/2" NST.
7. HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE.
8. INCLUDE 2" CURB STOP VALVE, DI VALVE BOX, METER BOX, AND LID.
9. CONTRACTOR SHALL ADJUST WATER MAIN GRADIENT AS NEEDED SUCH THAT FLUSHING HYDRANTS ARE SITUATED AT LOCALIZED HIGH POINTS TO ACCOMMODATE AIR RELEASE.
10. FINAL FLUSHING HYDRANT POSITIONING SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION.



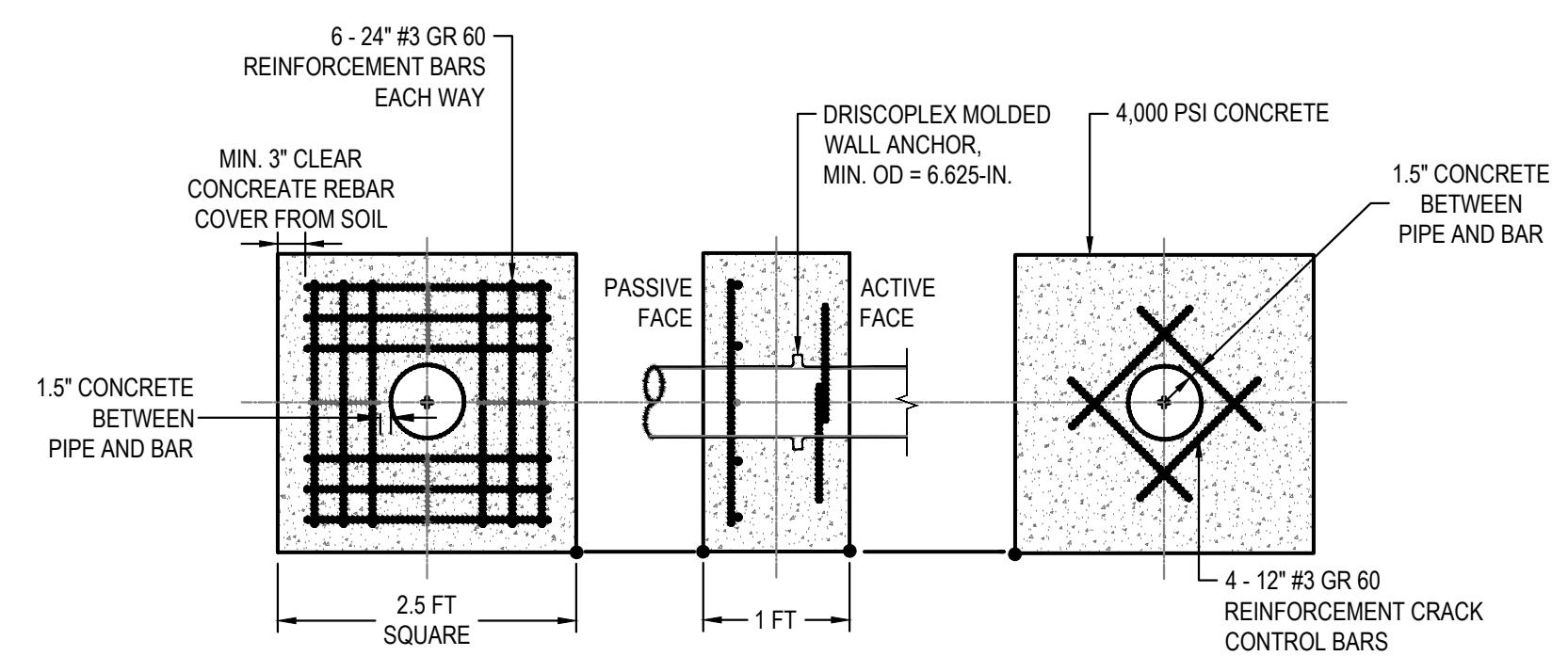
FLUSHING HYDRANT DETAIL
NTS



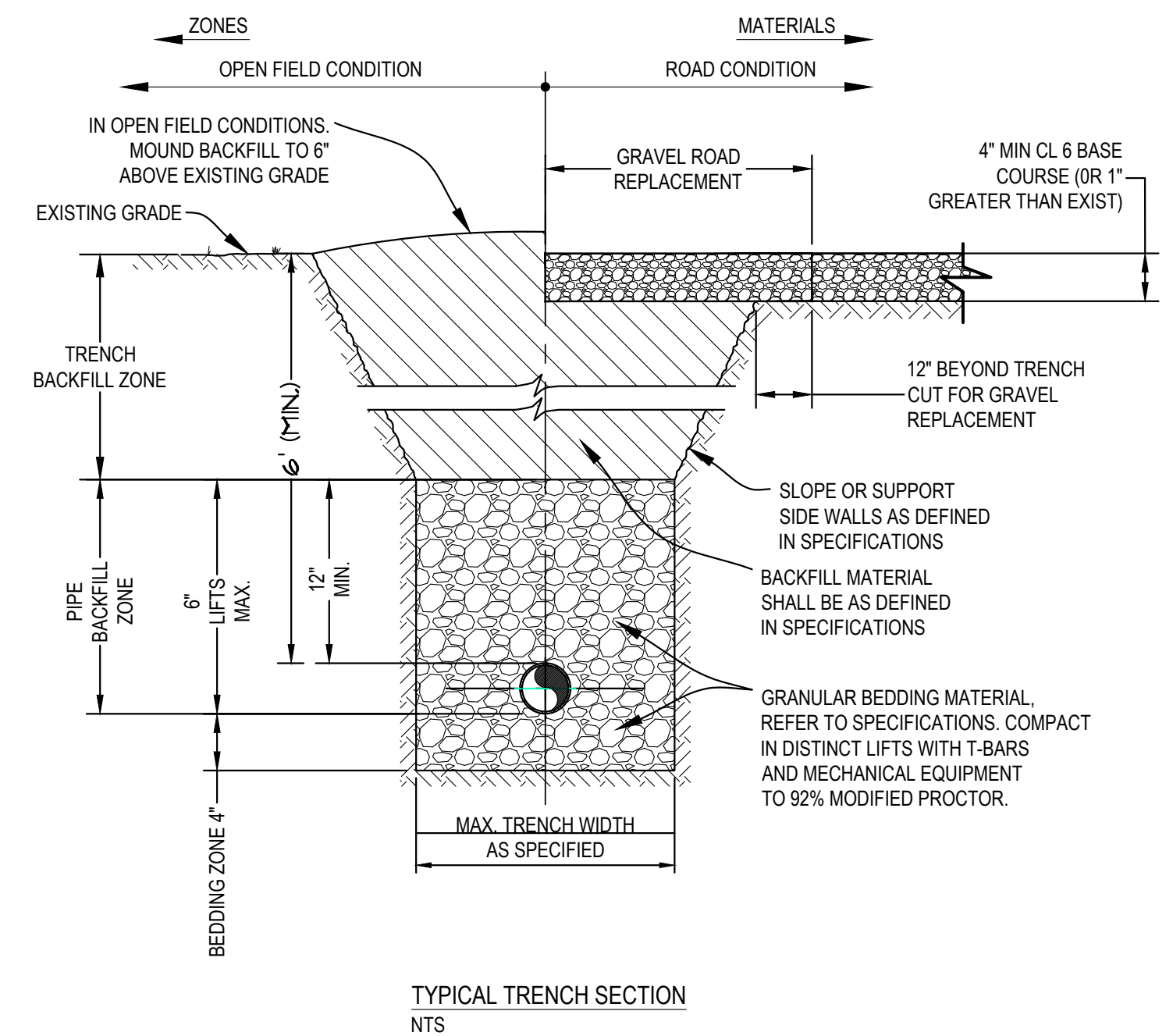
TYPICAL STREAM CROSSING DETAIL
NTS



SEDIMENT CONTROL LOG
NTS



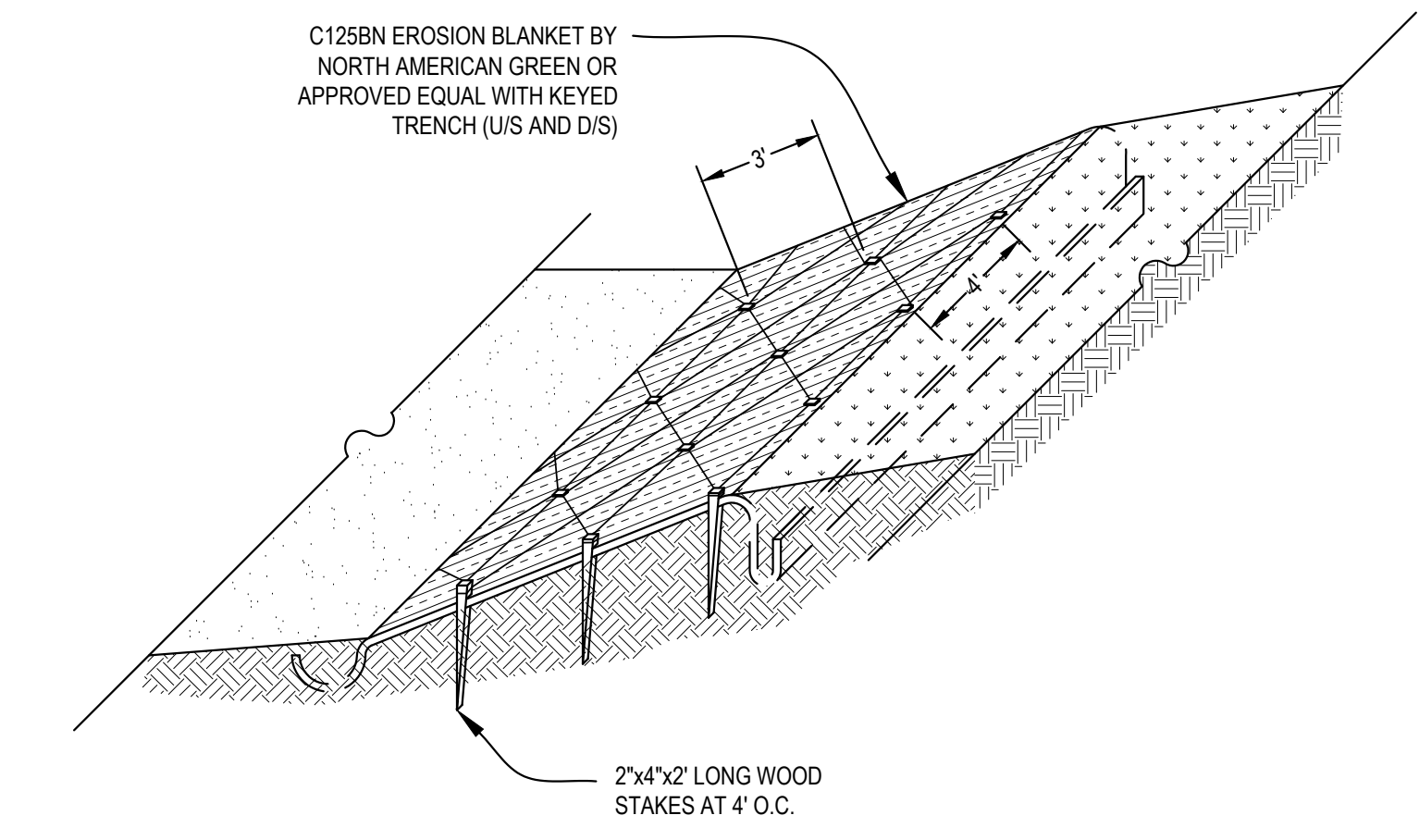
HDPE ANCHOR BLOCK DETAIL FOR 4-IN PIPE
NTS



TYPICAL TRENCH SECTION
NTS

COMMON NAME	SCIENTIFIC NAME	% MIX	PLS/ACRE
ARRIBA WESTERN WHEATGRASS	ARRIBA WESTERN WHEATGRASS	4%	4.1
SIDEOTS GRAMMA	BOUTELOUA CURTIPENDULA	23%	2.3
BLUE GRAMMA	BOUTELOUA GRACILIS	7%	0.7
LONGLEAF DROPSEED	SPOROBOLUS ASPER	1%	0.1
GREEN NEEDLEGRASS	STIPA VIRIDULA	12%	1.2
BUFFALOGRASS	BUCHLOE DACTYLOIDES	9%	0.9
INDIAN RICE GRASS	ORYZOPSIS HYMENOIDES	7%	0.7
		TOTAL =	10.0

SEEDING AND MULCHING (SM)



TYPICAL EROSION BLANKET INSTALLATION
NTS



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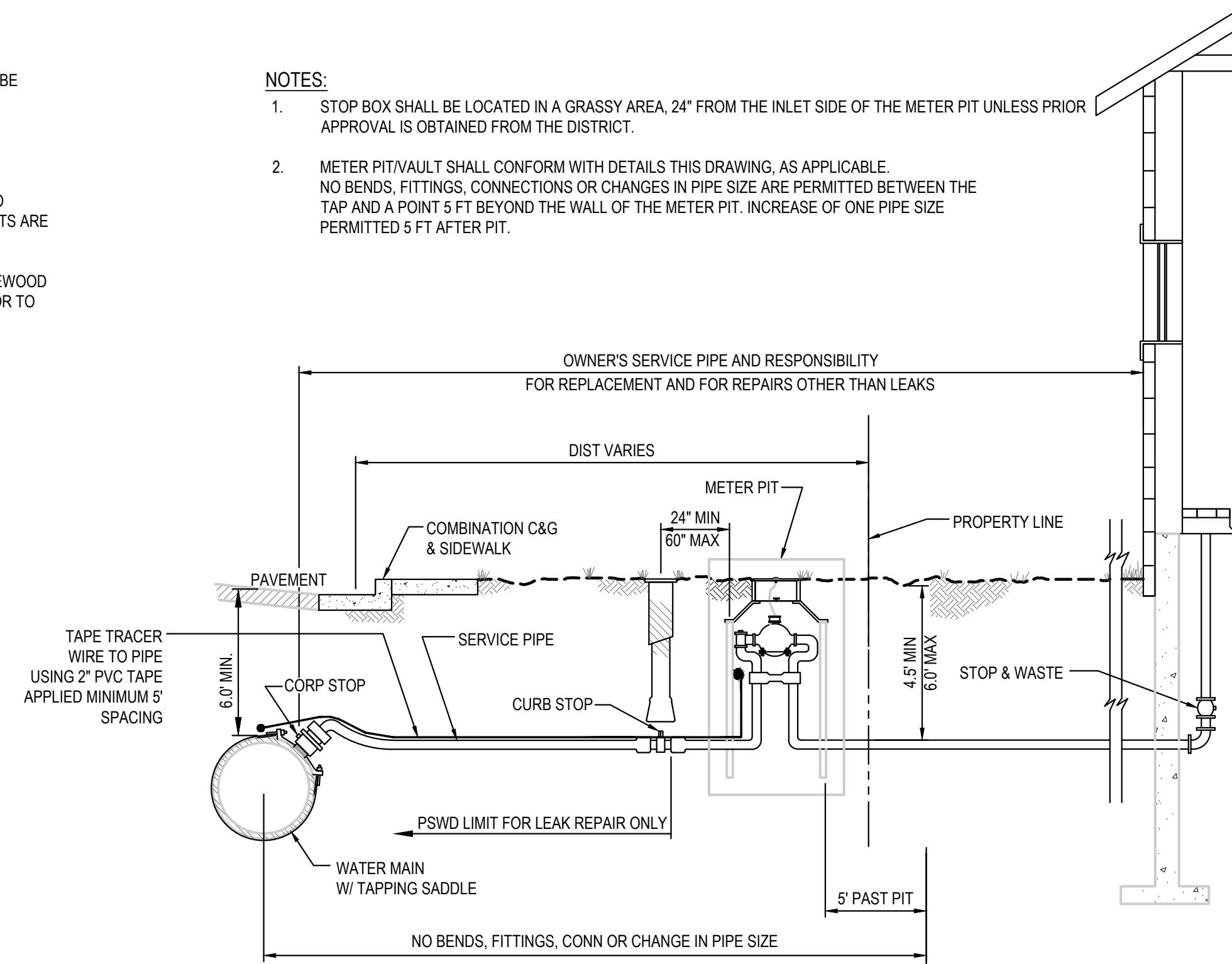
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GENERAL METER NOTES

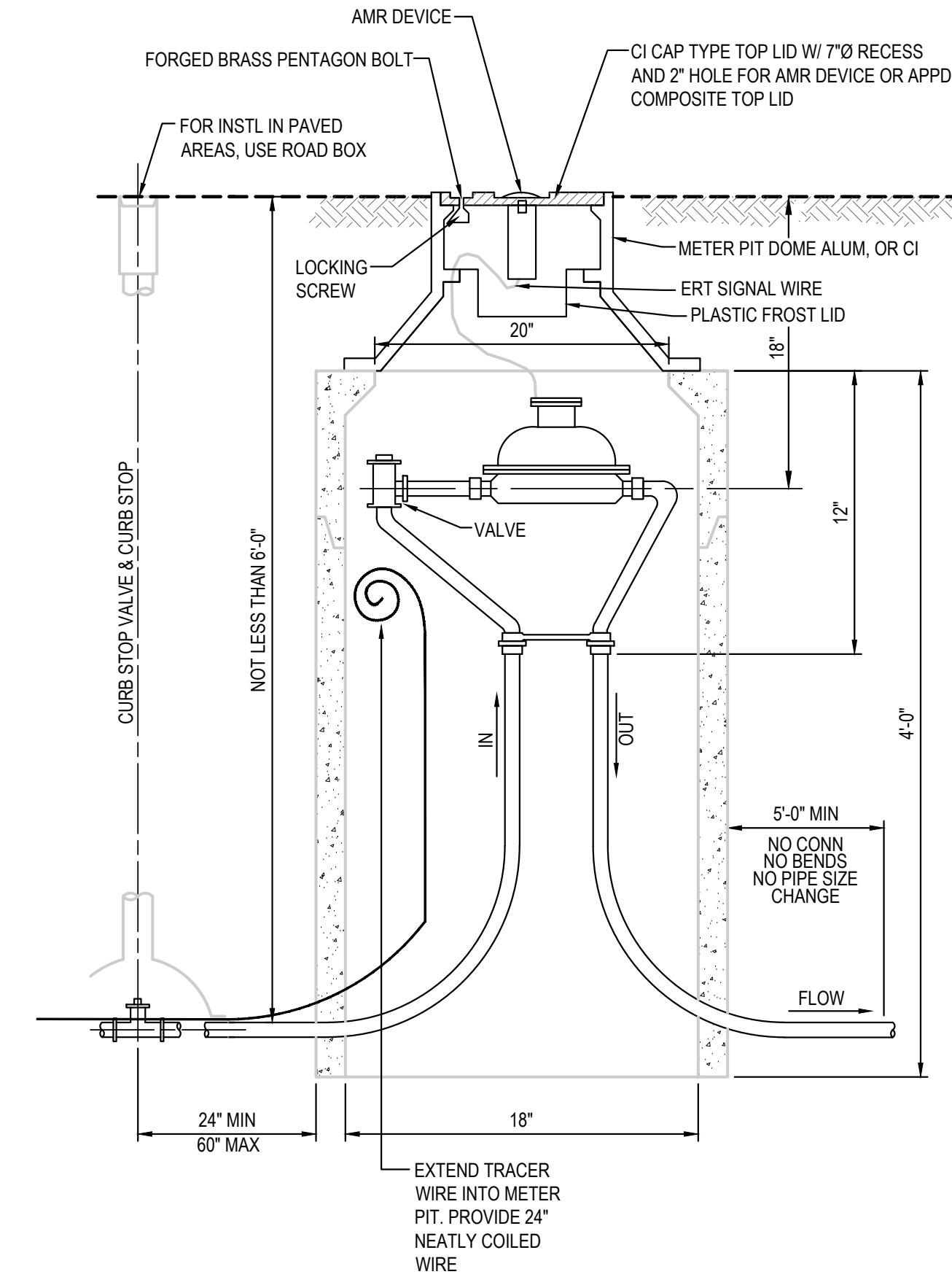
- NEW METER PIT LOCATIONS SHALL BE APPROVED BY THE PINEWOOD SPRINGS WATER DISTRICT.
- METER PITS AND CURB STOPS/PROPERTY-LINE VALVES SHALL BE LOCATED IN GRASSY AREAS WHERE POSSIBLE. METER PITS MAY NOT BE PLACED IN DRIVEWAYS.
- METERS WILL NOT BE SET/APPROVED UNLESS METER SETTING AND SERVICE LINE ARE IN FULL COMPLIANCE WITH THE MOST CURRENT VERSION OF THE ENGINEERING STANDARDS, STANDARD DRAWINGS, AND APPROVED PROJECT DRAWINGS AS APPLICABLE.
- DOMESTIC WATER SERVICES SHALL RUN AT A NINETY DEGREE ANGLE TO THE FRONT PROPERTY LINE OR ROW/EASEMENT LINE, WITH NO BENDS, NO CHANGES IN PIPE SIZE OR PIPE MATERIAL, AND NO CONNECTIONS UNTIL FIVE FEET PAST THE METER PIT OR VAULT. NO JOINTS ARE PERMITTED WITHIN THE METER PIT OR VAULT, EXCEPT AS SHOWN ON STANDARD DRAWINGS.
- MATERIALS USED FOR SERVICE PIPES, VALVES, METER SETTINGS AND METERS SHALL CONFORM TO APPLICABLE SECTIONS OF THE PINEWOOD SPRINGS WATER DISTRICT STANDARDS. VARIANCES AND DEVIATIONS MUST BE APPROVED BY CUSTOMER SERVICE FIELD SECTION PRIOR TO INSTALLATION.

NOTES:

- STOP BOX SHALL BE LOCATED IN A GRASSY AREA, 24" FROM THE INLET SIDE OF THE METER PIT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE DISTRICT.
- METER PIT/VAULT SHALL CONFORM WITH DETAILS THIS DRAWING, AS APPLICABLE. NO BENDS, FITTINGS, CONNECTIONS OR CHANGES IN PIPE SIZE ARE PERMITTED BETWEEN THE TAP AND A POINT 5 FT BEYOND THE WALL OF THE METER PIT. INCREASE OF ONE PIPE SIZE PERMITTED 5 FT AFTER PIT.



SERVICE LINE, CURB STOP AND OUTSIDE METER INSTALLATION
NOT TO SCALE



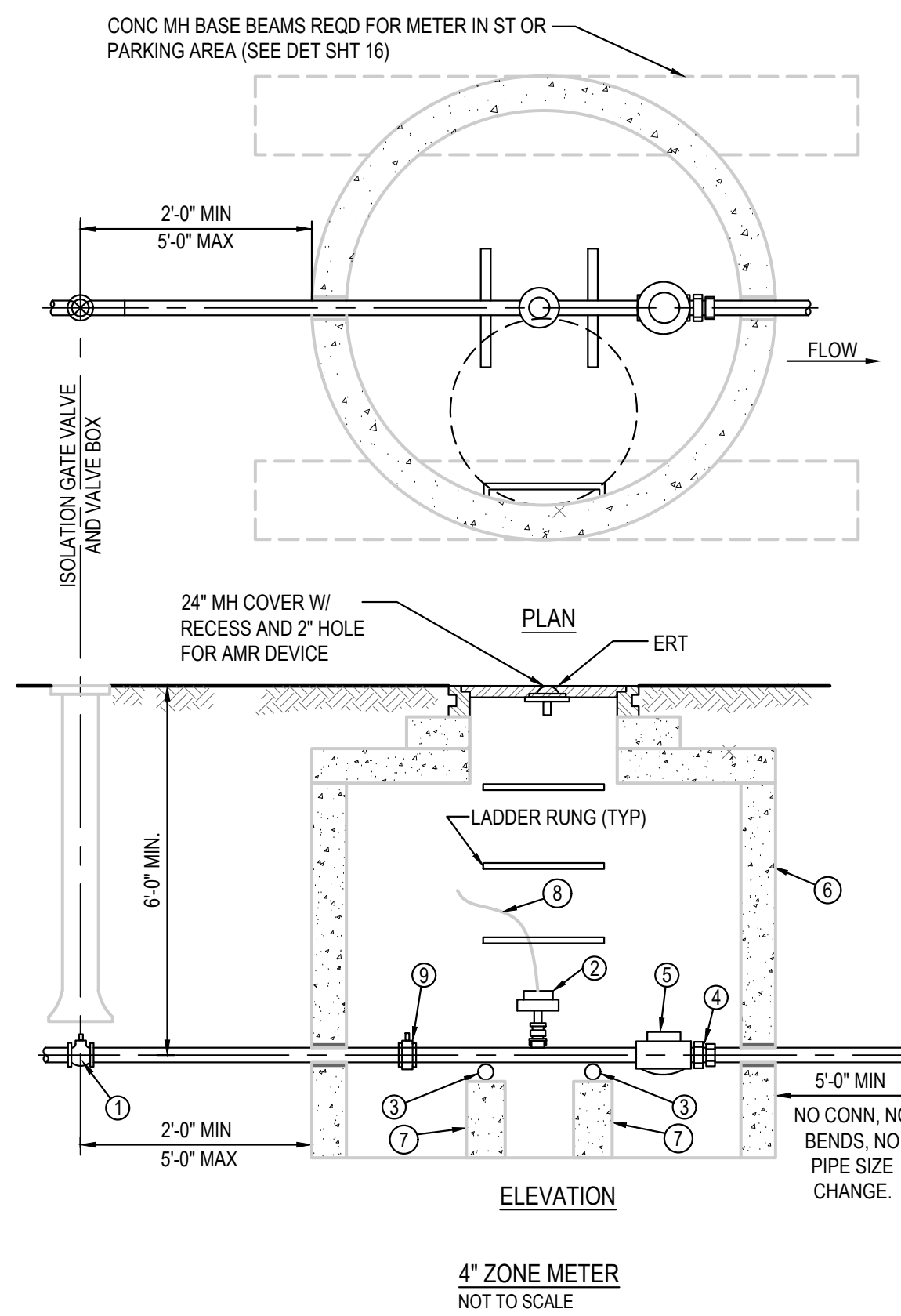
OUTSIDE SETTING FOR 3/4" AND 1" METERS
NOT TO SCALE

GENERAL NOTES:

- METER PIT MUST BE INSTALLED IN LANDSCAPED AREA. PRIOR APPROVAL REQD FOR INSTALLATIONS IN ROADWAYS, DRIVEWAYS OR SIDEWALKS. ROAD LIDS OR OTHER SPECIAL MODIFICATIONS MAY BE REQD.
- CURB STOP SHALL BE 24 TO 60 INCHES FROM INLET SIDE OF METER PIT, LOCATED IN LANDSCAPED AREA IF POSSIBLE. WITH PRIOR APPROVAL OF PINEWOOD SPRINGS WATER DISTRICT, CURB STOP MAY BE PLACED BENEATH PAVED AREA UNDER ROADWAY BOX, BUT NOT IN A PARKING AREA.
- ALL METER PITS SHALL BE FURNISHED WITH CAST IRON OR PLASTIC FROST LID WITH 3 INCH DEEP PAN, FIVE DRAIN HOLES, LIFTING HANDLE, AND SLOT FOR ERT WIRE RUNNING FULL DEPTH OF LID.
- TOTAL DEPTH OF PIT MUST BE AT LEAST 48" WITH ADJUSTMENT RINGS USED BETWEEN PIT TOP RING AND DOME SO PIT LID IS 1" BELOW FINISHED GRADE. TOP PIT RING SHALL NOT EXCEED 12" HEIGHT.
- IN MOST CASES AMR DEVICE WILL MOUNT THROUGH CAST IRON LID, OR UNDER COMPOSITE LID IN SOME CASES. REMOTE AMR DEVICE WILL BE NEEDED.

DETAILS:

- ISOLATION GATE VALVE
- METER UNIT
- 1"x 23" PIPE
- IRON PIPE TO FLARE CPLG FROM INLET SIDE OF COPPERSETTER AND OUTLET SIDE OF CHKV
- CHECK VALVE (CHKV ARE NOT REQD WHERE A BACKFLOW PREVENTION DEVICE IS INSTL)
- 48" CONC MH WITH FLAT LID
- CONC BLOCK SUPPORT 4"x 4"x 24"
- SIGNAL WIRE TO AMR DEVICE
- SAMPLING PORT/TEE



4" ZONE METER
NOT TO SCALE

NOTES:

- METER VAULT SHALL BE INSTALLED IN LANDSCAPED AREA UNLESS APPROVED BY OWNER/ENGINEER.
- CURB STOP SHALL BE 24" TO 60" FROM THE INLET SIDE OF THE METER VAULT, IN LANDSCAPED AREA.
- FOR VAULT INSTALLATIONS IN ROADWAYS AND DRIVEWAYS, WHEN APPROVED, MH BASE BEAMS ARE REQD. METER VAULT MAY NOT BE INSTALLED IN PARKING AREA.
- NO CONC FLOOR ALLOWED IN METER VAULT.
- NO CONNECTIONS OF ANY TYPE, PIPE BENDS, OR CHANGES IN PIPE SIZE ARE PERMITTED BETWEEN THE TAP AND 5 FT BEYOND THE OUTLET SIDE OF THE METER VAULT, EXCEPT AS SHOWN ON THIS DETAIL.
- METER SHALL BE FURNISHED WITH ELECTRONIC DIGITAL REGISTER OR ELECTRONIC ENCODED REGISTER AND AN PIT MOUNT AMR DEVICE. 24" CI MH LID SHALL HAVE 7"Ø RECESS AND 2"Ø HOLE TO ACCOMMODATE AMR DEVICE. IN SPECIAL CIRCUMSTANCES, REMOTE ERT MAY BE REQD, TO BE INSTALLED ON NEARBY BUILDING OR POST.
- ZONE METER PIT SHALL BE HS20 TRAFFIC RATED WHEN INSTALLED IN ROADWAYS.
- DISTANCE BETWEEN RUNGS, CLEATS AND STEPS SHALL NOT EXCEED 12" AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER.
- VAULT WALL PENETRATIONS SHALL BE GROUTED WITH CONC.



PINEWOOD SPRINGS WATER IMPROVEMENTS
TYPICAL DETAILS

ISSUED FOR REVIEW
FOR AND ON BEHALF OF MERRICK & COMPANY



JOB NUMBER	100472
DATE	DECEMBER 2024
SHEET	12 OF 12

REV	REVISION DESCRIPTION	DATE	CHKD	APPR