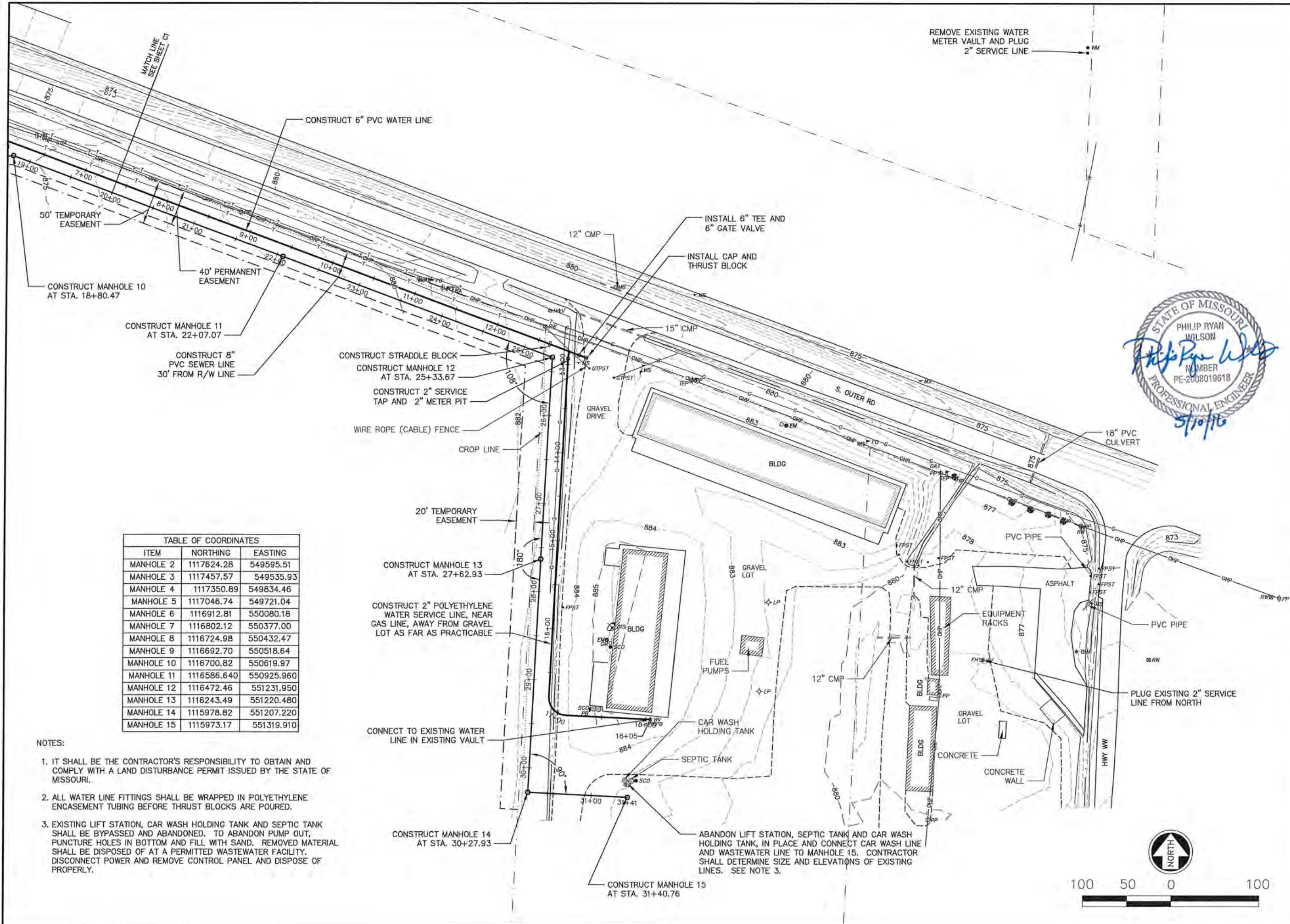


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TABLE OF COORDINATES		
ITEM	NORTHING	EASTING
MANHOLE 2	1117624.28	549595.51
MANHOLE 3	1117457.57	549535.93
MANHOLE 4	1117350.89	549834.46
MANHOLE 5	1117046.74	549721.04
MANHOLE 6	1116912.81	550080.18
MANHOLE 7	1116802.12	550377.00
MANHOLE 8	1116724.98	550432.47
MANHOLE 9	1116692.70	550518.64
MANHOLE 10	1116700.82	550619.97
MANHOLE 11	1116586.640	550925.960
MANHOLE 12	1116472.46	551231.950
MANHOLE 13	1116243.49	551220.480
MANHOLE 14	1115978.82	551207.220
MANHOLE 15	1115973.17	551319.910

NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND COMPLY WITH A LAND DISTURBANCE PERMIT ISSUED BY THE STATE OF MISSOURI.
- ALL WATER LINE FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT TUBING BEFORE THRUST BLOCKS ARE POURED.
- EXISTING LIFT STATION, CAR WASH HOLDING TANK AND SEPTIC TANK SHALL BE BYPASSED AND ABANDONED. TO ABANDON PUMP OUT, PUNCTURE HOLES IN BOTTOM AND FILL WITH SAND. REMOVED MATERIAL SHALL BE DISPOSED OF AT A PERMITTED WASTEWATER FACILITY. DISCONNECT POWER AND REMOVE CONTROL PANEL AND DISPOSE OF PROPERLY.



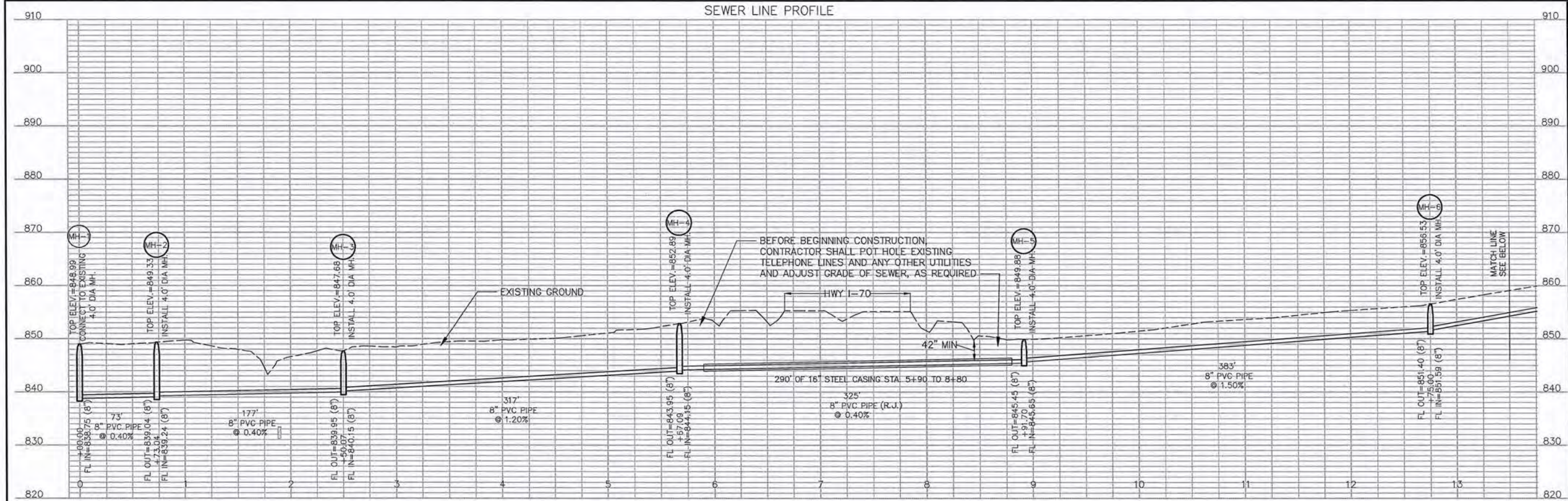
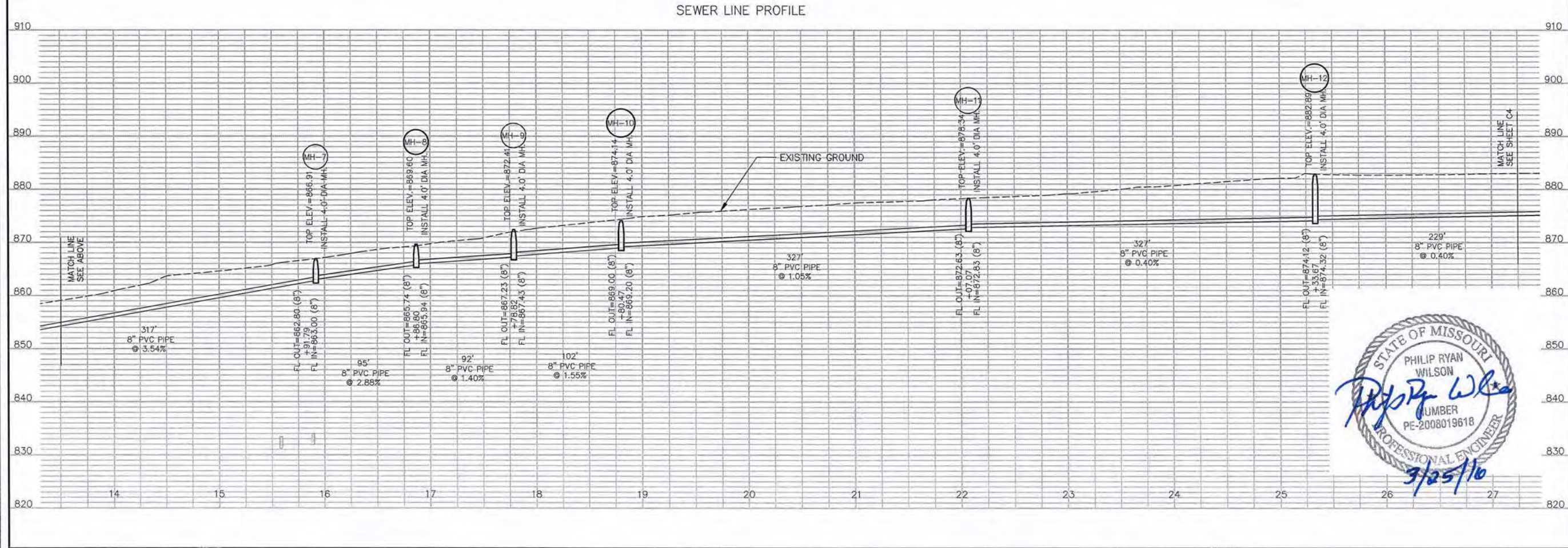
MODOT MAINTENANCE FACILITY
NEW FLORENCE, MISSOURI

SHAHER, KLINE & WARREN
107 Butler Street
Macon, MO 63552-1628
660.385-6441 FAX: 660.385-6614
SURVEYING | ENGINEERING | CONSTRUCTION



DESIGNED BY: PRW		DRAWN BY: JDC		CHECKED BY: PRW		ISSUE DATE:	
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1		NO.	DATE	REVISIONS	BY	APPD	
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DATE: 3/24/2016
BY: DUNNINGHAM
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BY		APPD		COPYRIGHT © 2016 - SHAFER, KLINE & WARREN INC.		MISSOURI CERTIFICATE OF AUTHORITY: 000143	

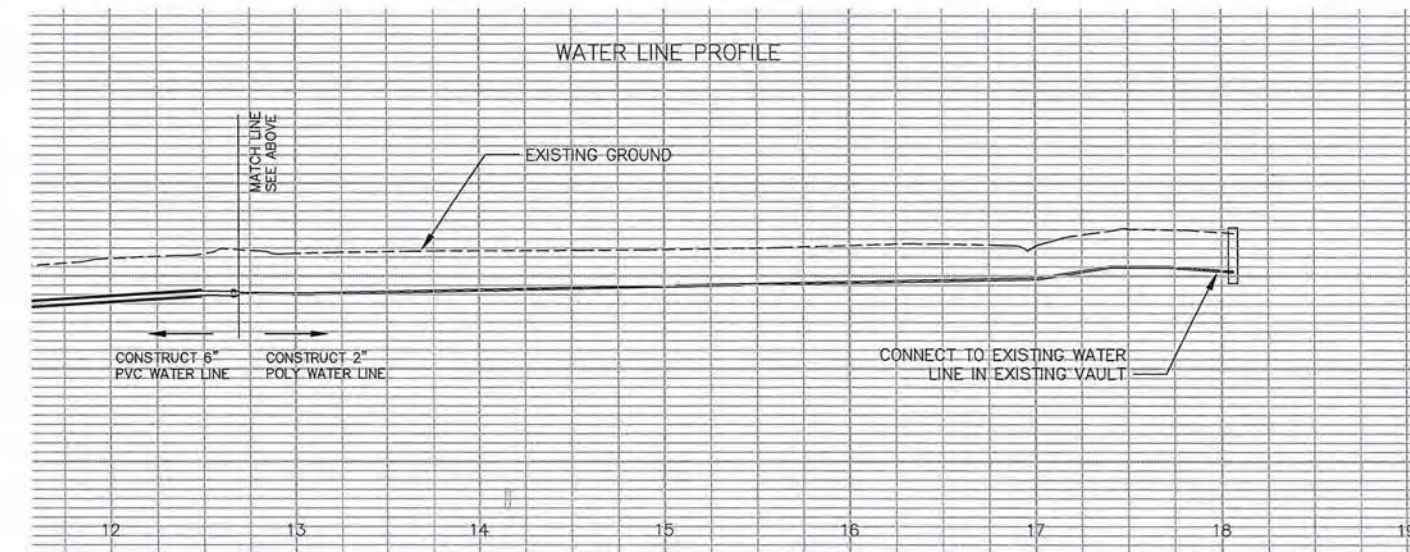
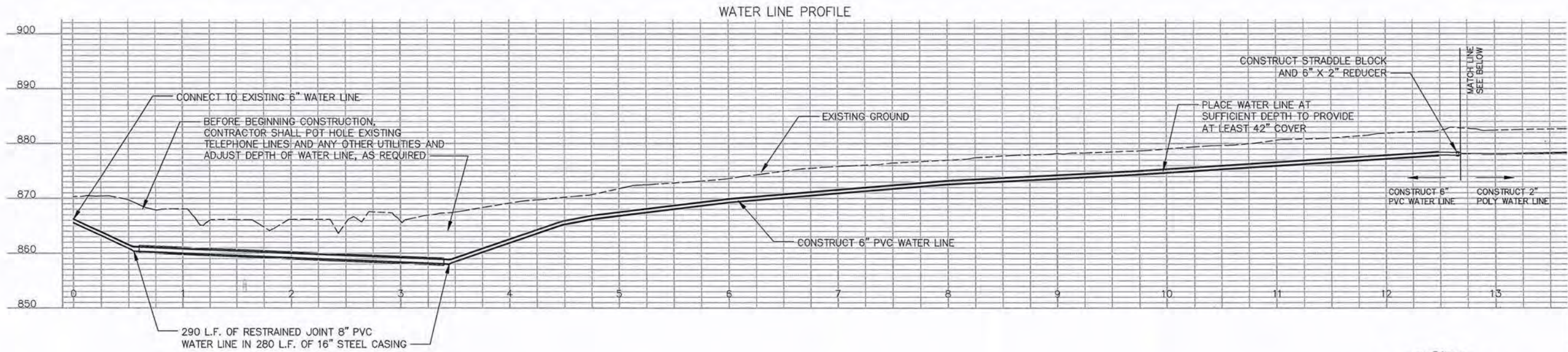
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NEW FLORENCE, MISSOURI**

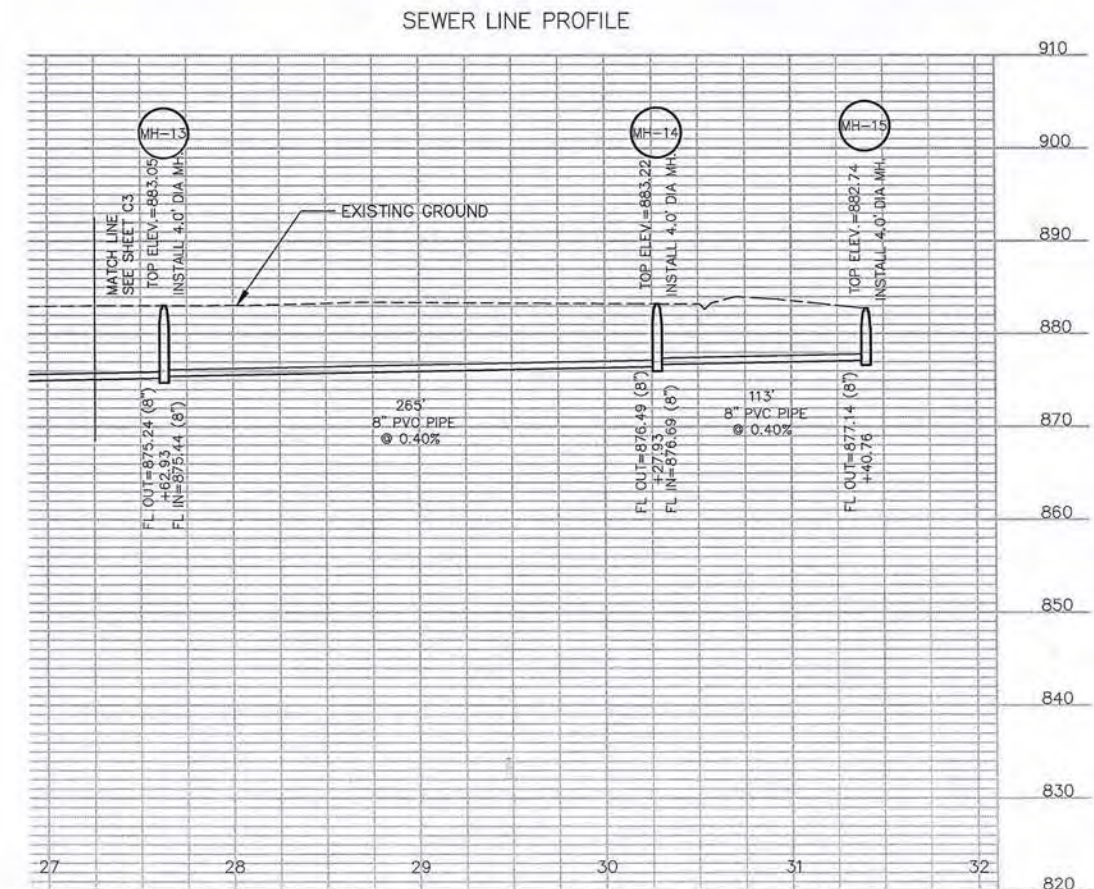
PROFILES

160050-010
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DATE: 3/24/2016
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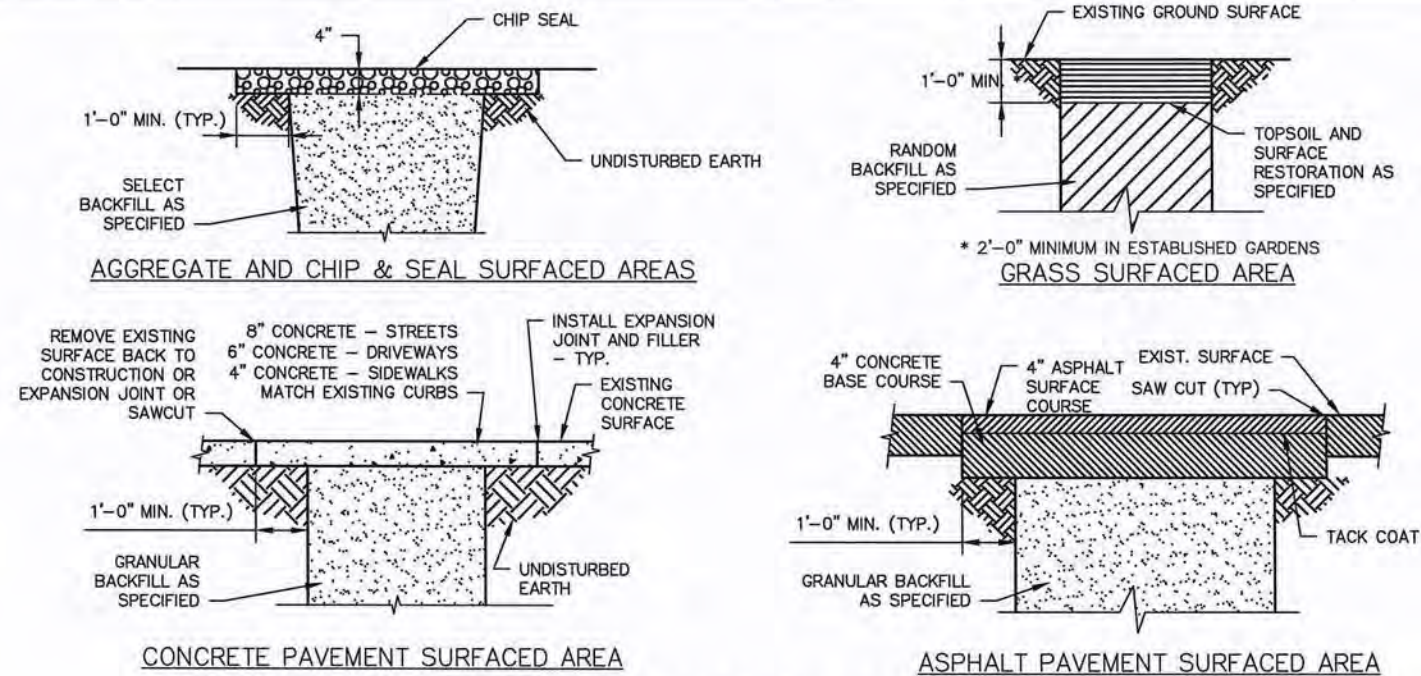


1. INSTALL TRACER WIRE WITH WATER LINE AND SERVICE LINE AS SHOWN IN STANDARD DETAILS.
2. COIL TRACER WIRE IN VALVE BOX OF EXISTING VALVE AT STA. 0+00.
3. COIL TRACER WIRE IN METER PIT FOR WATER LINE AND SERVICE LINE.



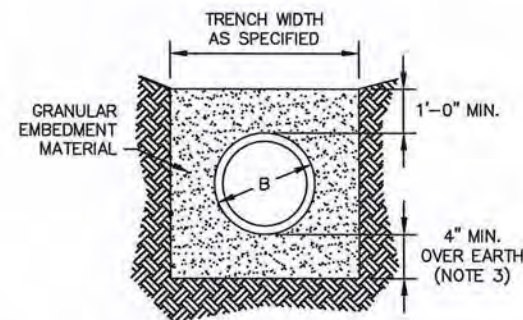
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MODOT MAINTENANCE FACILITY NEW FLORENCE, MISSOURI		PROFILES		SHAHER, KLINE & WARREN 107 Butler Street Macon, MO 63552-1628 660.385-6441 FAX: 660.385-6614 SURVEYING ENGINEERING CONSTRUCTION	
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BY: JCARTER
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XREF DWG3: NONE
XREF DWG4: NONE



SEWER TRENCH RESTORATION DETAILS

NOT TO SCALE



NOTES:

1. REFER TO THE PROJECT MANUAL FOR TRENCH WIDTH, COMPACTION REQUIREMENTS, AND EMBEDMENT CLASS SCHEDULE.
2. GRANULAR BACKFILL MATERIAL SHALL BE USED IN PLACE OF SELECT BACKFILL MATERIAL BENEATH STRUCTURES AND PAVED AREAS.
3. DIMENSION OVER ROCK SHALL BE $B/4$, 6" MIN.

SEWER PIPE EMBEDMENT DETAILS

NOT TO SCALE

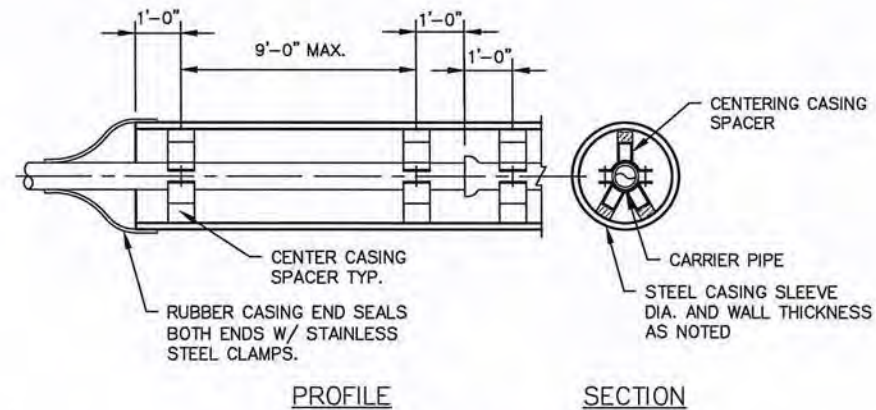


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160050-010 SHEET NO.		C5						NO.	DATE	REVISIONS		BY	APPD
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SEWER DETAILS		Drawn By: <u>JDC</u>			3						
					Checked By: <u>PRW</u>	1					
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BY: DUNNINGHAM
DATE: 3/24/2016
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BORE AND CASING

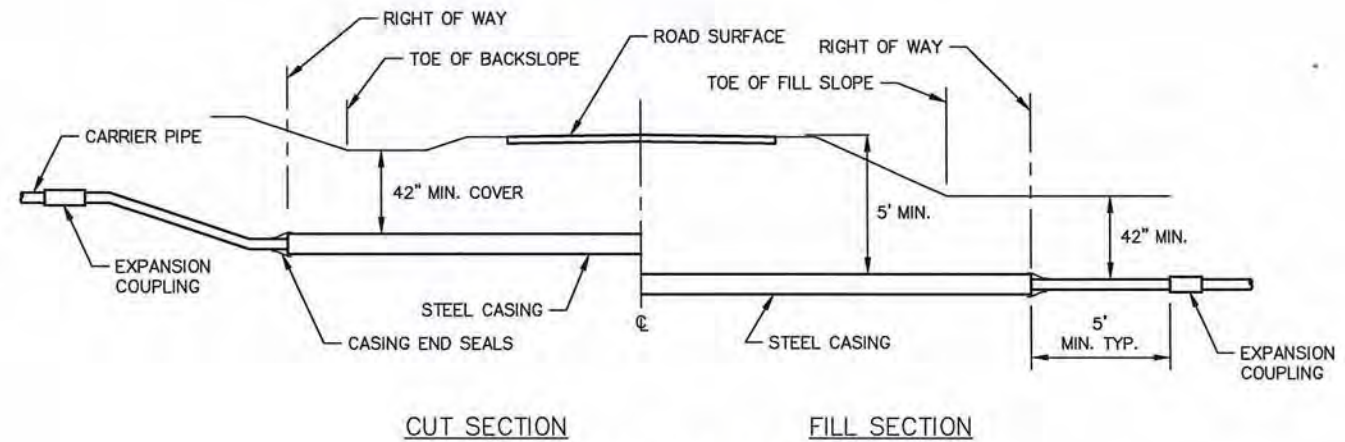
NOT TO SCALE

CASING DETAIL NOTES

1. STEEL CASINGS FOR BORED OR JACKED CONSTRUCTION SHALL BE STEEL PIPE CONFORMING TO ASTM A-139 WITH A MINIMUM DIAMETER AS INDICATED ON THE SITE PLAN. MINIMUM YIELD STRENGTH SHALL BE 35,000 P.S.I.
2. MINIMUM WALL THICKNESS FOR STEEL CASING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
3. STEEL SHALL BE GRADE B UNDER RAILROADS AND GRADE A UNDER ALL OTHER SURFACES. INSTALLATION UNDER RAILROADS SHALL BE BY DRY BORE AND JACK. WET BORE IS NOT PERMITTED.
4. CASING SPACERS SHALL BE USED WITH ALL CASING. CASING SPACERS SHALL HAVE A MINIMUM OF 3 RUNNERS AND SHALL HOLD THE CARRIER PIPE IN THE CENTER OF THE CASING.
5. CASING ENDS SHALL BE SEALED WITH SYNTHETIC RUBBER, WRAP-AROUND END SEALS WITH STAINLESS STEEL BANDS.

NOTES:

1. CASING SHALL EXTEND 5'-0" BEYOND RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON PLAN SHEETS.
2. CASING MATERIAL SHALL BE AS SHOWN ON PLAN AND PROFILE SHEETS. SEE CASING SPACER DETAIL FOR WALL THICKNESS AND SIZES.
3. INSTALL CASING SPACERS AND END SEALS BASED ON CARRIER AND CASING SIZES. SEE BORE AND CASING DETAIL.
4. CARRIER PIPE SHALL HAVE RESTRAINED JOINTS. CARRIER PIPE SHALL EXTEND A MINIMUM OF 5'-0" BEYOND EACH END OF CASING.
5. THE MODOT UTILITY ACCOMMODATION POLICY AND THE HIGHWAY PERMIT AGREEMENT SHALL BE FOLLOWED AND WILL SUPERSEDE CONTRACT PLANS AND SPECIFICATIONS.
6. ALL MODOT ROAD CROSSINGS SHALL BE BORED.



MODOT ROAD CROSSING

NOT TO SCALE



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**MODOT MAINTENANCE FACILITY
NEW FLORENCE, MISSOURI**
CROSSING DETAILS

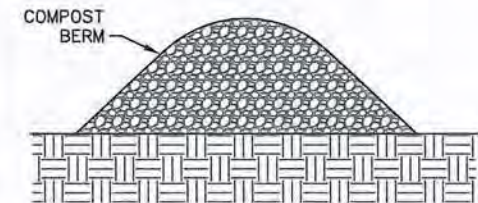
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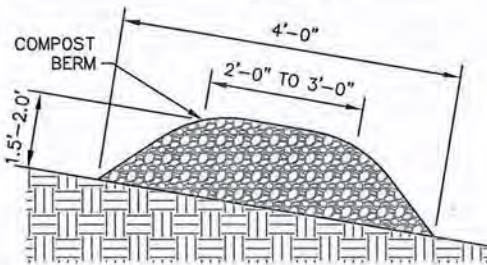
GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL OBTAIN AN APPROPRIATE LAND DISTURBANCE PERMIT FROM MDNR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (PPP) AT THE TIME THE PROJECT BREAKS GROUND. A COPY OF THE PPP SHALL BE AVAILABLE ON SITE AT ALL TIMES. THE PLAN SHOULD FOLLOW CLOSELY TO THE E.P.A. GUIDANCE DOCUMENT, STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES - DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES, U.S. E.P.A., OFFICE OF WATER, EPA 832-R-92-005 (SEPTEMBER 1992).
3. THE EROSION CONTROL FEATURES, NOTES AND SPECIFICATIONS IN THE PPP SHALL REPRESENT THE MINIMUM REQUIREMENTS ACCEPTABLE. LOCATIONS SHALL BE CONSIDERED TYPICAL AND MAY VARY ACCORDING TO CONTRACTORS STAGING AND LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL ADJUST, MODIFY AND ADD TO THE PLAN AS NECESSARY TO CONTROL EROSION, SILTATION AND POLLUTION.
4. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT POLLUTION FOR ALL WORK WHICH THEY ARE DIRECTLY INVOLVED.
5. EROSION CONTROL DEVICES ALONG THE DOWN SLOPE SIDE OF THE PROJECT SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY GRADING WORK.
6. WHEN POSSIBLE, WITHOUT ADVERSELY AFFECTING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL: MINIMIZE THE AMOUNT OF SURFACE AREA WHICH IS EXPOSED AT ONE TIME, LEAVE GRADED AREAS WITH A ROUGH TEXTURE, CONSTRUCT TEMPORARY TERRACES DURING GRADING OPERATIONS, AND LIMIT UNNECESSARY VEHICLE TRAFFIC IN GRADED AREAS.
7. THE SPILLAGE OF DEBRIS, INCLUDING THE TRACKING OF SOIL, OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE AVOIDED. THEREFORE THE CONTRACTOR SHALL PROVIDE STABILIZED DRIVES AT ALL ACCESS LOCATIONS AS NECESSARY AND SHALL REMOVE PROMPTLY ANY MATERIAL WHICH FINDS ITS WAY INTO THE PUBLIC RIGHT-OF WAY.
8. STRAW BALE DIKES OR SILT FENCES SHALL BE PLACED ON A CONTOUR ELEVATION ALONG THE DOWNHILL SIDE AND FOR THE FULL EXTENT OF THE DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS. THE LAST FIVE FEET ON EACH END OF RUN OF SILT FENCE/STRAW BALE DIKE SHALL BE PLACED FACING UPHILL AT 90 DEGREES TO THE CONTOUR LINE.
9. THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING DRAINAGE CULVERTS. STRAW BALE DIKES/SILT FENCE PLACED AROUND ALL STORM SEWER INLETS EXCEPT DURING CONSTRUCTION OPERATIONS WHICH REQUIRE THEIR REMOVAL IS ONE METHOD OF MEETING THE ABOVE REQUIREMENT.
10. EACH CONTRACTOR SHALL INSPECT THEIR EROSION CONTROL DEVICES EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SILT AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS PRACTICABLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS OF INSPECTION.
11. ALL AREAS UPON REACHING FINAL GRADE SHALL BE BROUGHT TO FINAL PLAN CONDITION (PAVED, MULCHED AND SEEDDED, SODDED, OR OTHER) AS SOON AS POSSIBLE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL COVER WITH A DENSITY OF 70 % (MINIMUM) FOR UNPAVED AREAS IS ESTABLISHED.
12. WHERE GRADED AREAS DRAIN ONTO PAVED AREAS, SILT FENCE/STRAW BALE DIKE SHALL BE PLACED AT THE BACK OF CURB TO PREVENT SILT FROM ENTERING THE PAVED AREAS. WHEN THESE EROSION CONTROL DEVICES ARE NOT PLACED ON THE CONTOUR, THEN THEY SHALL HAVE INSTALLED AT 50' INTERVALS A 5' LENGTH PLACED AT 90 DEGREES TO THE MAIN LENGTH.

EROSION CONTROL NOTES



CROSS SECTION



DETAIL

COMPOST BERM

NOT TO SCALE

COMPOST BERM MULCH NOTES:
GENERAL NOTE:

1. THE SILT CONTROL BERM SHALL BE PLACED UNCOMPACTED IN A WINDROW AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. PARALLEL TO THE BASE OF THE SLOPE, OR AROUND THE PERIMETER OF OTHER AFFECTED AREAS, CONSTRUCT A 1 TO 1.5 FOOT HIGH BY 2.5 TO 3 FOOT HIGH TRAPEZOIDAL BERM THAT IS APPROXIMATELY 2 TO 3 FOOT WIDE AT THE TOP AND A MINIMUM OF 4 FEET WIDE AT THE BASE. IN EXTREME CONDITIONS, OR WHERE SPECIFIED BY THE ENGINEER, A SECOND BERM SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE. ENGINEER SHALL SPECIFY BERM REQUIREMENTS.
3. IF BERM IS TO BE LEFT AS A PERMANENT OR PART OF THE NATURAL LANDSCAPE, THE COMPOST BERM MAY BE SEEDED DURING APPLICATION FOR PERMANENT VEGETATION. THE ENGINEER/LANDSCAPE ARCHITECT SHALL SPECIFY SEED REQUIREMENTS.
4. DO NOT USE COMPOST BERMS IN ANY RUNOFF CHANNELS.

SILT FENCE NOTES:

A) INSTALLATION

1. THE HEIGHT OF SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED 34 INCHES ABOVE THE GROUND SURFACE.
2. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER CLOTH SHALL BE SECURELY SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MAX 6 INCH OVERLAP.
3. DIG A TRENCH AT LEAST 6 INCHES DEEP AND 4 INCHES WIDE ALONG THE TRENCH ALIGNMENT.
4. DRIVE POSTS AT LEAST 24 INCHES INTO THE GROUND ON THE DOWNSLOPE SIDE OF THE TRENCH. SPACE POSTS A MAXIMUM OF 6 FEET APART.
5. EXTRA-STRENGTH SEDIMENT FENCE FABRIC SHALL BE USED. POST FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE SEDIMENT FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING A MINIMUM OF ONE INCH LONG, HEAVY-DUTY WIRE STAPLES OR TIE-WIRES, AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. PLACE THE BOTTOM 1 FOOT OF FABRIC IN THE MINIMUM-OF-6-INCH DEEP TRENCH, LAPPING TOWARD THE UPSLOPE SIDE. BACKFILL WITH COMPACTED EARTH OR GRAVEL.
7. IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, IT MUST BE OF SUFFICIENT LENGTH TO ELIMINATE ENDFLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE, PLACED ON A CONTOUR, WITH THE ENDS ORIENTED UPSLOPE. EXTRA-STRENGTH SILT FABRIC SHALL BE USED WITH A MAXIMUM 3-FOOT SPACING OF POSTS.
8. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SILT STORAGE AREA IN THE UPSLOPE SIDE OF THE FENCE. PROVIDE GOOD ACCESS IN AREA OF HEAVY SILTATION FOR CLEAN OUT AND MAINTENANCE.
9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

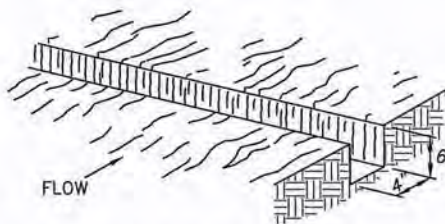
B) TROUBLESHOOTING:

1. DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES, BEFORE FENCE INSTALLATION SO UTILITIES ARE NOT DISTURBED.
2. GRADE ALIGNMENT OF FENCE NEEDED TO PROVIDE A BROAD, NEARLY LEVEL AREA UPSTREAM OF FENCE TO ALLOW SILT COLLECTION AREA.

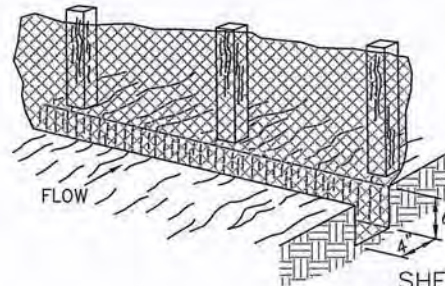
C) INSPECTION MAINTENANCE:

1. INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SILT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SILT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. AVOID DAMAGING OR UNDERMINING THE FENCE DURING CLEANOUT. SILT ACCUMULATION SHOULD NOT EXCEED 1/2 THE HEIGHT OF THE FENCE.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SILT DEPOSITS, AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY AND COMPLETELY STABILIZED.

1. EXCAVATE A 6"x4" TRENCH



3. STAPLE SILT FENCE MATERIAL TO POSTS AND EXTEND IT INTO AND AROUND THE BOTTOM OF THE TRENCH.

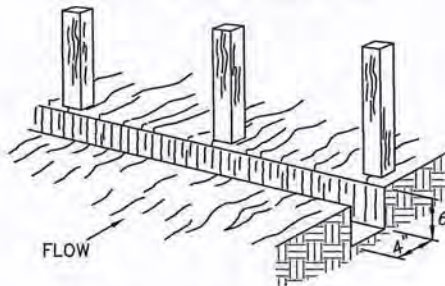


SHEET FLOW INSTALLATION
(PERSPECTIVE VIEW)

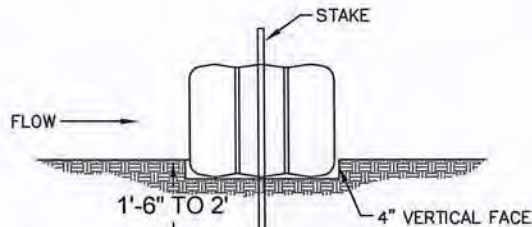
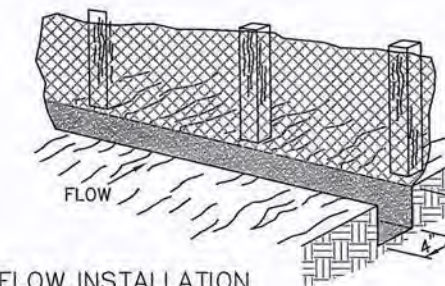
SILT FENCE DETAIL

NOT TO SCALE

2. SET THE POSTS ALONG THE DOWN SLOPE SIDE OF THE TRENCH.

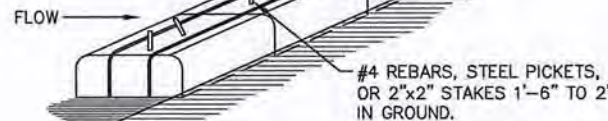


4. BACKFILL AND COMPACT THE EXCAVATED SOIL OVER THE SILT FENCE IN THE TRENCH.



EMBEDDING DETAIL

ANGLE FIRST STAKE TOWARD
PREVIOUS LAID BALE



ANCHORING DETAIL

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE BY THE OWNER.

STRAW BALE DIKE

NOT TO SCALE

SHAHER, KLINE & WARREN

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MODOT MAINTENANCE FACILITY
NEW FLORENCE, MISSOURI

EROSION CONTROL DETAILS

160050-010
SHEET NO.

C8

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