WESTERN WATER SYSTEM IMPROVEMENTS PHASE III WATER CONNECTOR LINES CITY OF RIDGELAND, MISSISSIPPI

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PROJECT LOCATION

UTILITIES:

TELPAK NETWORKS - FIBER OPTIC - 601.487.7196 (business) ATMOS ENERGY - GAS - 601.991.2388 (locate service) TEXAS EASTERN PIPELINE - GAS - 601.982.8290 (business) ENTERGY MISSISSIPPI, INC. - ELECTRIC - 601.991.2388 (locate service), 601.351.4119 (substation) COMCAST - CABLE - 601.991.2388 (locate service) AT&T - PHONE - 601.991.2388 (locate service) CITY OF RIDGELAND - WATER & SEWER - 601.853.2027 (business)

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MAYOR:

GENE F. McGEE

BOARD OF ALDERMAN:

D.I. SMITH, AT-LARGE

CHUCK GAUTIER, WARD 2

KEVIN HOLDER, WARD 3

BRIAN RAMSEY, WARD 4

WESLEY HAMLIN, WARD 6

PUBLIC WORKS DIRECTOR:

SCOTT JONES, WARD 5

MIKE McCOLLUM

KEN HEARD, WARD 1

VICINITY MAP

WEI #: W06018C

- BEFORE COMMENCING ANY ACTIVITY PERTAINING TO THIS CONTRACT, THE CONTRACTOR SHALL: OBTAIN ALL BUILDING AND CONSTRUCTION PERMITS AS REQUIRED BY REGULATORY AND GOVERNMENTAL AGENCIES; CONTACT THE OWNER AND REPRESENTATIVE, LOCATE ALL EXISTING UNDERGROUND UTILITIES; NOTIFY UTILITY COMPANIES MAINTAINING UTILITY LINES OR EASEMENTS WITHIN THE LIMITS OF CONSTRUCTION, OR IN PUBLIC RIGHT—OF—WAY ADJACENT TO THE PROJECT; BECOME KNOWLEDGEABLE OF EXISTING UTILITIES AND PROTECT SAME WHERE NECESSARY. THIS SHALL INCLUDE UTILITIES SHOWN AND NOT SHOWN ON THE PLANS.
- 2 CONTRACTOR TO VERIFY WATERLINE LOCATIONS IN FIELD WITH ENGINEER BEFORE INSTALLING.
- THE ENGINEER SHALL ESTABLISH, ONE TIME ONLY, HORIZONTAL AND VERTICAL CONTROL AS NECESSARY FOR CONSTRUCTION OF THE PROJECT. ANY ADDITIONAL CONSTRUCTION STAKING SHALL BE PROVIDED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. PRESERVATION OF REFERENCE POINTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST PROVIDE ALL GRADES, STRING LINES, AND OTHER CONTROL WORK NECESSARY FOR COMPLETION OF THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND DRAWINGS.
- 4 ALL DIMENSIONS SHOWN ON THE PLANS, OR STAKED IN THE FIELD, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING, REQUESTING HIS INTERPRETATION. THE ENGINEER WILL MAKE SUCH CORRECTIONS AND DECISIONS IN WRITING AS MAY BE DEEMED NECESSARY TO CARRY OUT THE INTENT OF THE PLANS.
- THE CONTRACTOR SHALL LIMIT ALL CONSTRUCTION ACTIVITIES TO BE WITHIN THE CONSTRUCTION LIMITS AND PROPERTY LINES, WHICHEVER IS APPLICABLE.
- THE APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IN ADDITION TO THE UTILITIES SHOWN, THERE MAY ALSO BE ADDITIONAL UNDERGROUND UTILITIES WHICH HAVE NOT BEEN DETECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY COMPANIES (CALL MISSISSIPPI ONE-CALL) AND THE CITY OF RIDGELAND PUBLIC WORKS DEPARTMENT TO GIVE NOTIFICATION OF INTENT TO EXCAVATE IN THE AREA OF THE PROJECT. FAILURE BY THE CONTRACTOR TO NOTIFY SAID COMPANIES SHALL MAKE THE CONTRACTOR LIABLE UNDER STATE LAW FOR ANY DAMAGES INCURRED TO UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITIES AND SHALL REPAIR, REPLACE, OR RELOCATE SAME AT NO ADDITIONAL COST TO THE OWNER.
- 18 THE ENGINEER RESERVES THE RIGHT TO RELOCATE THE PROPOSED WATER LINE DURING CONSTRUCTION IF THERE IS A CONFLICT WITH EXISTING UNDERGROUND UTILITIES.
- 19 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING POWER AND UTILITY POLES AFFECTED BY THE PROJECT ACTIVITY, INCLUDING REMOVAL, REPLACEMENT, RELOCATION AND/OR STABLIZING AND PROTECTING GUYS. CONTRACTOR SHALL COORDINATE ALL SUCH ACTIVITY WITH UTILITY COMPANY. ALL SUCH WORK SHALL BE AN ABSORBED COST ITEM.
- ALL WATERLINES TO BE INSTALLED BY THE CONTRACTOR AT A MINIMUM OF 36" BELOW GROUND UNLESS OTHERWISE NOTED.
- 11 WHEN UNSUITABLE BEDDING, BACKFILL, OR SITE SUB-GRADE MATERIAL INCLUDING ROCK IS ENCOUNTERED THE CONTRACTOR SHALL EXCAVATED TO THE LIMITS REQUIRED, AND AS AGREED TO BY THE ENGINEER, PROPERLY DISPOSE OF AND BACKFILL WITH ACCEPTABLE MATERIAL TO THE LINES AND GRADES SHOWN ON THE PLANS.
- UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL EXISTING MATERIAL TO BE REMOVED FROM THE PROJECT SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE FOR DISPOSAL OF EXISTING MATERIAL. THE CONTRACTOR SHALL INCLUDE ANY AND ALL COSTS IN THE CONTRACT PRICES FOR ITEMS OF WORK TO WHICH THE WORK IS INCIDENTAL THERETO.
- ALL EXCAVATIONS MUST BE BACKFILLED BY THE CONTRACTOR AT THE END OF EACH WORK DAY UNLESS PERMISSION IS GRANTED BY THE OWNER IN WRITING. THE CONTRACTOR SHALL NOT LEAVE EXCAVATIONS UNATTENDED. THE ENDS OF WATER LINES INSTALLED SHOULD BE SECURELY COVERED BY THE CONTRACTOR PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THROUGH AND LOCAL TRAFFIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- (CURRENT EDITION).

 THE CONTRACTOR SHALL KEEP ALL STREETS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ANY EXISTING TRAFFIC SIGNS IN CONFLICT WITH THE PROJECT TO A LOCATION THAT IS VISIBLE TO THE CORRESPONDING TRAFFIC.
- THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM HAZARD OR INJURY BY ERECTING BARRICADES WHERE APPROPRIATE SUCH AS NEAR EXCAVATIONS AND EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO HOMEOWNERS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY HOMEOWNERS 48 HOURS IN ADVANCE OF ACCESS RESTRICTIONS BY PLACING DOOR HANGERS ON ALL HOMES AND BUSINESSES WITHIN THE AFFECTED PORTION OF THE PROJECT AREA.
- 19 THE CONTRACTOR SHALL MAINTAIN A 10 FOOT HORIZONTAL SEPARATION AND AN 18" VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN THE TOP OF ANY SANITARY SEWER LINE
- AND THE BOTTOM OF ANY WATER LINE.

SHALL PERFORM THIS WORK IN A WAY TO MINIMIZE THE DURATION OF ANY SERVICE DISRUPTION FOR THE WATER CUSTOMER.

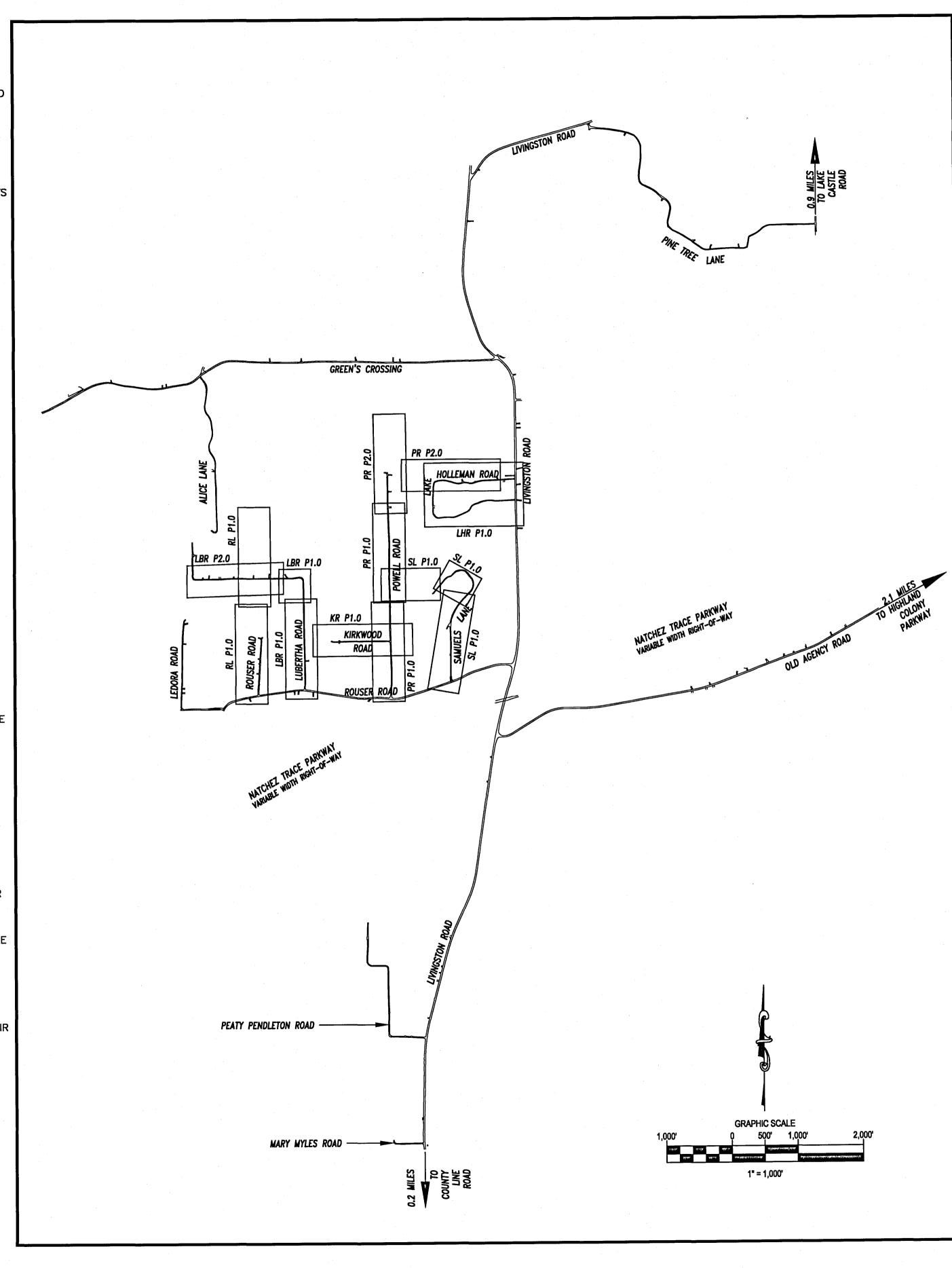
20 EXISTING WATER LINES SHALL REMAIN IN SERVICE DURING CONSTRUCTION.

AND THE LINES HAVE SUCCESSFULLY COMPLETED HYDROSTATIC TESTING.

SHALL BE AN ABSORBED COST ITEM.

- THE CONTRACTOR SHALL EQUIP FITTINGS WITH MEGA-LUG RESTRAINTS. MULTIPLE FITTINGS SHALL BE CONNECTED USING ANCHOR COUPLINGS WHERE POSSIBLE.
- CONTRACTOR TO NOTIFY CITY OF RIDGELAND PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS BEFORE MAKING CONNECTION TO ANY EXISTING WATERLINE.
- 23 EXISTING PIPES THAT ARE TO BE ABANDONED SHALL BE CUT AND PLUGGED BY THE CONTRACTOR AS REQUIRED TO PREVENT SOIL FROM ENTERING THE PIPE.

 THE CONTRACTOR SHALL SECURE THE PLUG WITH A STEEL BEAM DRIVEN NOT LESS THAN 3-FEET INTO THE GROUND AND COVER WITH CONCRETE.
- MEW WATER LINES SHALL NOT BE PLACED IN SERVICE UNTIL TWO (2) CONSECUTIVE SAMPLES OF WATER ARE FOUND TO MEET THE STATE HEALTH DEPARTMENT STANDARDS,
- THE CONTRACTOR SHALL END ALL NEW SERVICE LINE AT THE CURB STOP UNTIL THE NEW WATER LINE SERVING SAID SERVICE LINE HAS MET THE STATE HEALTH DEPARTMENT STANDARDS. ONCE THE NEW WATER LINE HAS BEEN APPROVED, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER AT THE METER. THE CONTRACTOR
- THE CONTRACTOR SHALL REPAIR OR REPLACE FENCES, DRIVEWAYS, SIDEWALKS, YARD SURFACES, CURB AND GUTTER SECTIONS, OR OTHER SURFACES AND/OR STRUCTURES WHICH ARE DAMAGED, REMOVED OR OTHERWISE DISTURBED DURING CONSTRUCTION. THE CONTRACTOR'S REPAIRS SHALL BE TO THE ORIGINAL CONDITION OR BETTER AND SHALL BE MADE BY USING THE TYPES OF MATERIAL USED DURING CONSTRUCTION AND TO THE COMPLETE SATISFACTION OF THE OWNER AND ENGINEER. ASPHALT PAVEMENT REPAIR, CONCRETE DRIVEWAY REPAIR, GRAVEL DRIVEWAY REPAIR AND ASPHALT DRIVEWAY REPAIR SHALL BE PAID FOR AT THE BID UNIT PRICES. ALL OTHER SUCH REPAIRS AND/OR REPLACEMENTS
- THE REPAIR OR REPLACEMENT OF ITEMS NOT LISTED ON THE BID FORM FOR SEPARATE PAYMENT, SHALL BE CONSIDERED AS INCIDENTAL TO THE PROJECT AND THE COST FOR SUCH ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- THE CONTRACTOR SHALL PROTECT TREES, SHRUBBERY, FLOWERS, SOD AND OTHER VEGETATION, NOT SPECIFIED FOR REMOVAL BY DRAWINGS OR SPECIFICATIONS, AND SHALL REPAIR OR REPLACE SUCH ITEMS AS ARE DAMAGED DURING CONSTRUCTION OF PROJECT WITH THE SAME TYPES AND QUALITY AS THOSE THAT ARE DAMAGED. SUCH REPAIR OR REPLACEMENT SHALL BE TO THE SATISFACTION OF THE ENGINEER AND THE OWNER OF THE PROPERTY INVOLVED, AND SHALL BE AN ABSORBED COST ITEM.
- ANY AREA WHERE THE EXISTING VEGETATION WAS DISTURBED BY CONSTRUCTION SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING. ALL DISTURBED AREAS SHALL BE ADJUSTED FOR SMOOTH FLOW OF SURFACE RUN—OFF TO THE NEAREST BORROW DITCH, DRAINAGE INLET AND/OR CULVERT. ONCE CORRECTLY GRADED, ALL DISTURBED AREAS SHALL BE GRASSED WITH COMMON BERMUDAGRASS SEED. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE CURRENTLY SODDED.
- THE CONTRACTOR SHALL ENSURE ALL SEEDED AREAS ARE FREE OF TRASH AND HAVE 4-INCHES OF TOPSOIL.





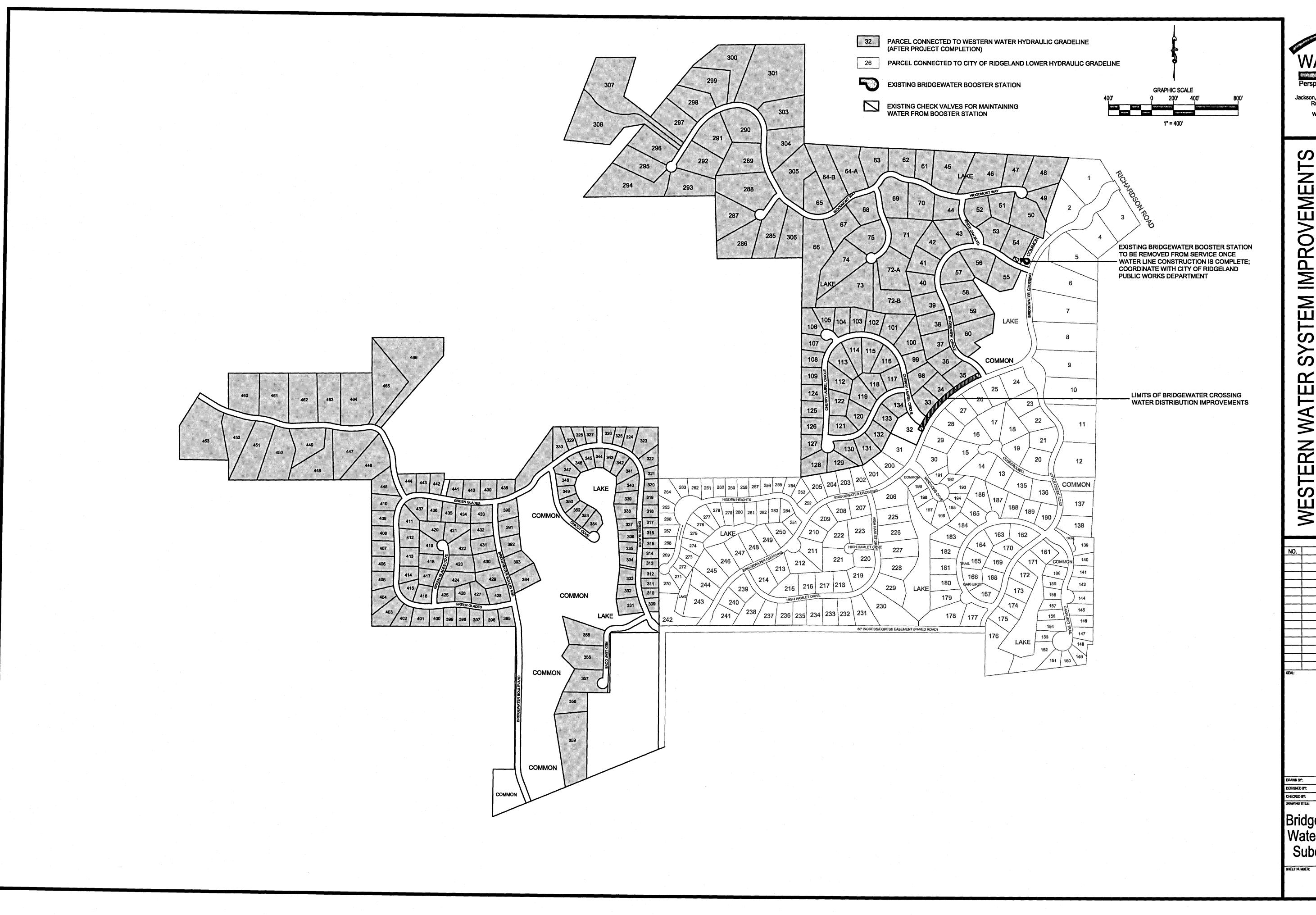
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WESTERN WATER SYSTEM IMPROVEMENTS PHASE III WATER CONNECTOR LINES CITY OF RIDGELAND, MS

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CITY OF RIDGELAND, MISSISSIPPI

P.O. BOX 217 RIDGELAND, MS 39158 601.853.2027 (PHONE)

MIKE McCOLLUM

LEGEND

---- EXISTING GROUND CONTOURS

----- PROPOSED SILT FENCE

OPERATOR:

OWNER:

CONTRACTOR TO BE DETERMINED AFTER PROJECT HAS BEEN AWARDED.

ALL WORK DESCRIBED BELOW SHALL BE PERFORMED BY THE OPERATOR WHO IS THE CONTRACTOR TO WHOM THE PROJECT HAS BEEN AWARDED. THE OWNER, CITY OF RIDGELAND, SHALL NOT BE RESPONSIBLE FOR PERFORMING ANY OF THE WORK LISTED BELOW.

SITE INFORMATION

THE CONSTRUCTION OF THE WESTERN WATER, PHASE III, WATER DISTRIBUTION IMPROVEMENTS WILL DISTURB 8.40 ACRES; THEREFORE, THIS PROJECT WILL REQUIRE A "LARGE CONSTRUCTION GENERAL PERMIT" AS GIVEN BY THE MISSISSIPP DEPARTMENT OF ENVIRONMENTAL QUALITY. ALL EROSION CONTROL OPERATIONS SHALL BE CARRIED OUT BY THE OPERATOR AS PER THE PERMIT. OPERATOR WILL ACQUIRE PERMIT PRIOR TO CONSTRUCTION. A COPY OF THIS PERMIT SHALL BE KEPT ON THE PROJECT SITE AT ALL TIMES. THIS PROJECT DRAINS IN A SOUTHERLY DIRECTION INTO AN UN-NAMED TRIBUTARY OF THE HANGING MOSS CREEK. AS PER THE "SOIL SURVEY OF MADISON COUNTY", ISSUED IN FEBRUARY 1984, THIS PROJECT CONTAINS THE FOLLOWING TYPES OF SOIL: LORING SILT LOAM, OAKLIMETER SILT LOAM, PROVIDENCE SILT LOAM, SMITHDALE-PROVIDENCE ASSOCIATION, AND SMITHDALE-PROVIDENCE COMPLEX.

CONTROLS

VEGETATIVE CONTROLS:

THE OPERATOR SHALL PRESERVE EXISTING TREES WHERE POSSIBLE. ANY DISTURBED AREAS THAT WILL BE LEFT UNDISTURBED FOR THIRTY OR MORE DAYS WILL BE SEEDED (TEMPORARY SEEDING) BY THE OPERATOR WITHIN SEVEN CALENDAR DAYS. AFTER FINAL GRADING, ALL DISTURBED AREAS WILL BE SEEDED (PERMANENT SEEDING) BY THE OPERATOR WITHIN SEVEN CALENDAR DAYS. UPON INSPECTION, HIGHLY ERODABLE AREAS WILL BE SODDED

STRUCTURAL CONTROLS:

PARALLEL TO ALL WATER LINE TRENCHES ON THE DOWNSLOPE SIDE. STRAW BALE BARRIERS WILL BE INSTALLED BY THE OPERATOR PERPENDICULAR TO THE WATER LINE TRENCH WHERE THE TRENCH ENDS AT A STREAM CROSSING. ANY ACCUMULATION OF MUD ON VEHICLE TIRES WILL BE WASHED, IF NEEDED, DURING MUDDY CONDITIONS. WHERE CONCRETE THRUST BLOCKS ARE REQUIRED, THE CONCRETE TRUCK DRIVERS WILL BE INSTRUCTED TO RETURN ANY MATERIALS TO THE CONCRETE BATCH PLANT AND COMPLETE ALL WASHING PROCEDURES AT THAT LOCATION.

HOUSEKEEPING PRACTICES:

ALL EQUIPMENT MAINTENANCE AND REPAIR WILL BE DONE OFFSITE. TRASH CANS WILL BE KEPT NEAR THE WORKERS AT ALL TIMES. THE CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING ALL TRASH AND DISPOSING AT AN CITY APPROVED LOCATION. PAINT, SOLVENTS, FERTILIZERS, OR ANY OTHER POTENTIALLY TOXIC MATERIALS WILL NOT BE STORED ONSITE. PORTABLE SANITARY FACILITIES SHALL BE PROVIDED FOR CONSTRUCTION WORKERS BY THE OPERATOR.

POST CONSTRUCTION/STORM WATER MANAGEMENT MEASURES:

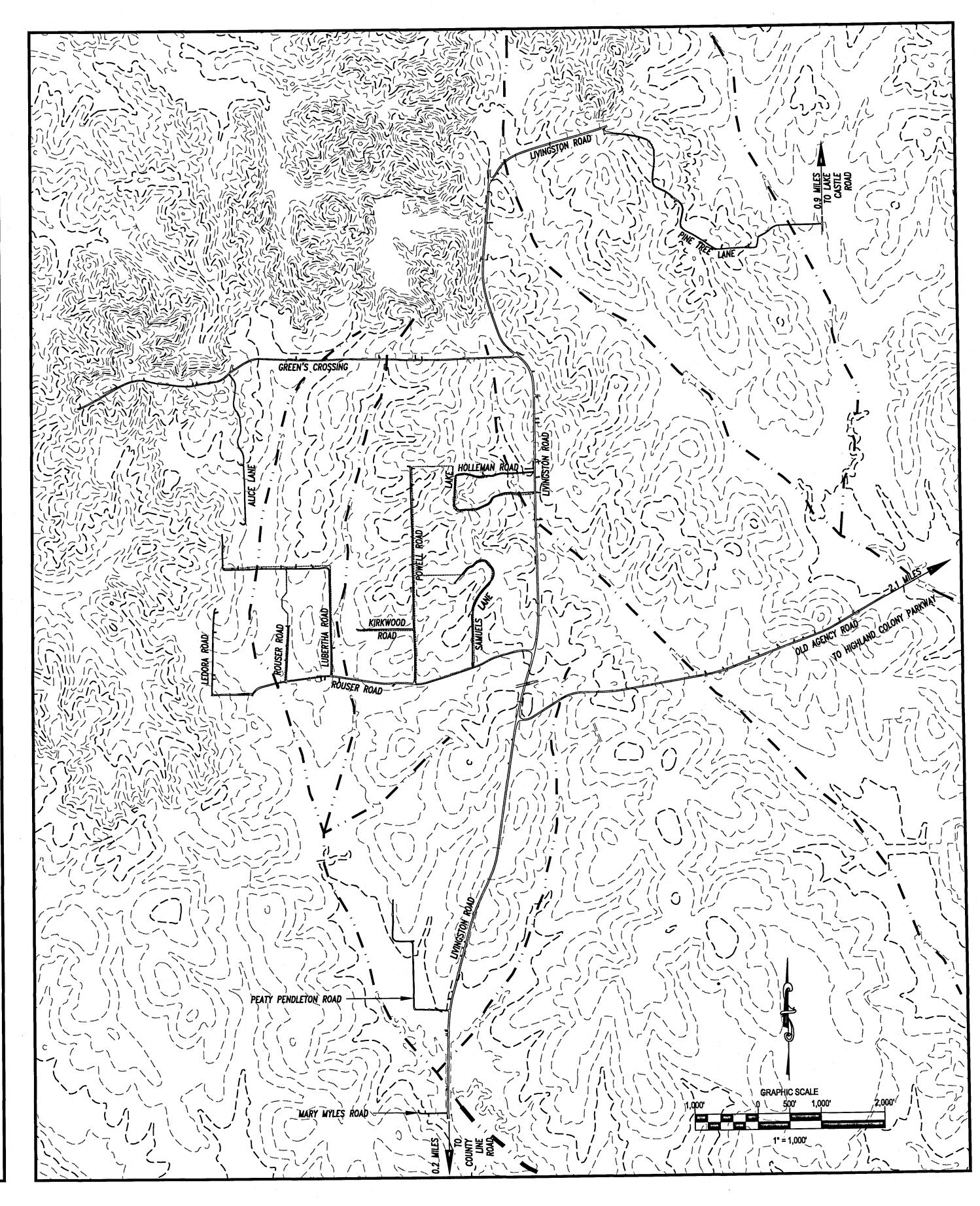
THE SILT FENCE WILL BE REMOVED BY THE OPERATOR ONCE NO LONGER NEEDED, AND THE AREA WILL BE GRADED, SEEDED (PERMANENT SEEDING) AND MULCHED. ALL PERMANENTLY SEEDED AREAS WILL BE MAINTAINED BY THE OPERATOR DURING THE ONE-YEAR WARRANTY PERIOD FOLLOWING CONSTRUCTION COMPLETION. THE OPERATOR WILL INSPECT, REPAIR, AND RE-SEED AS NEEDED DURING THIS TIME. SODDING MAY BE NEEDED IN HIGHLY ERODABLE AREAS.

OPERATOR'S IMPLEMENTATION SEQUENCE

- INSTALL SILT FENCE PARALLEL TO ALL WATER LINE TRENCHES ON THE DOWNSLOPE SIDE OF THE TRENCH.
- INSTALL STRAW BALE BARRIERS PERPENDICULAR TO THE WATER LINE TRENCH AT ALL STREAM CROSSINGS.
- STOCKPILE EXCAVATED MATERIAL ON THE UPSLOPE SIDE OF THE WATER LINE TRENCH WHILE INSTALLING THE WATER LINE.
- REPLACE ALL EXCAVATED MATERIAL TO THE TRENCH PRIOR TO THE END OF EACH WORKDAY.
- PLANT NEEDED TEMPORARY VEGETATION ON DISTURBED AREAS.
- 6. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, AND PLANT PERMANENT VEGETATION.

OPERATOR'S MAINTENANCE PLAN

EXTREME CARE SHALL BE TAKEN BY THE OPERATOR TO INSURE THAT NO SILTATION LEAVES THE PROJECT SITE. THE OPERATOR SHALL CHECK ALL DISTURBED AREAS, EROSION AND SEDIMENT CONTROLS AFTER EACH SIGNIFICANT RAINFALL BUT NOT LESS THAN ONCE PER WEEK. THE OPERATOR SHALL MAKE NEEDED REPAIRS WITHIN 24 HOURS, REMOVE SEDIMENT FROM SILT FENCES WHEN ACCUMULATED SEDIMENT HAS REACHED 50 PERCENT CAPACITY. REPLACE NON- FUNCTIONAL SILT FENCE, AND MAINTAIN ALL VEGETATED AREAS TO PROVIDE PROPER GROUND COVER - RESEED, FERTILIZE AND MULCH AS NEEDED.



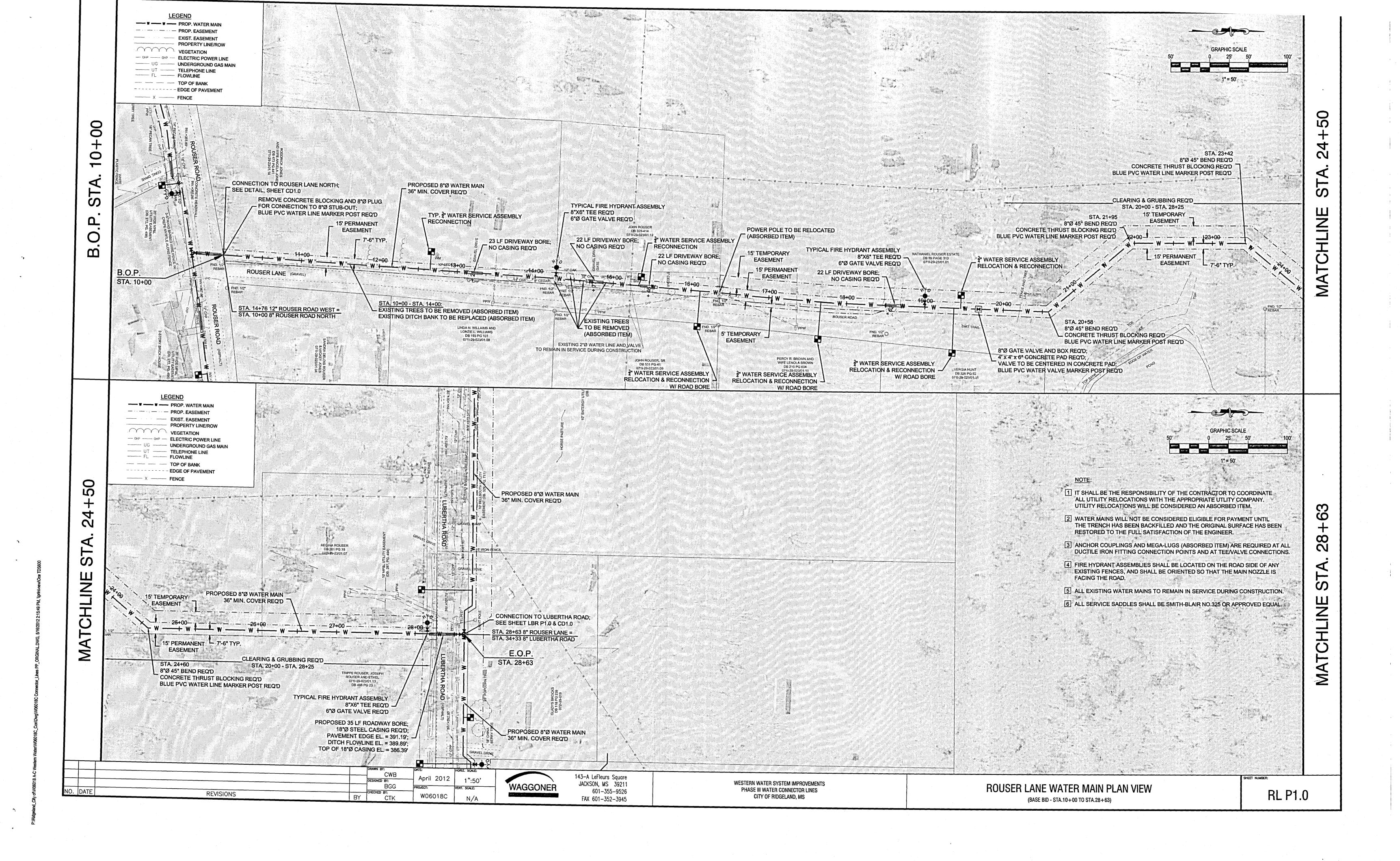


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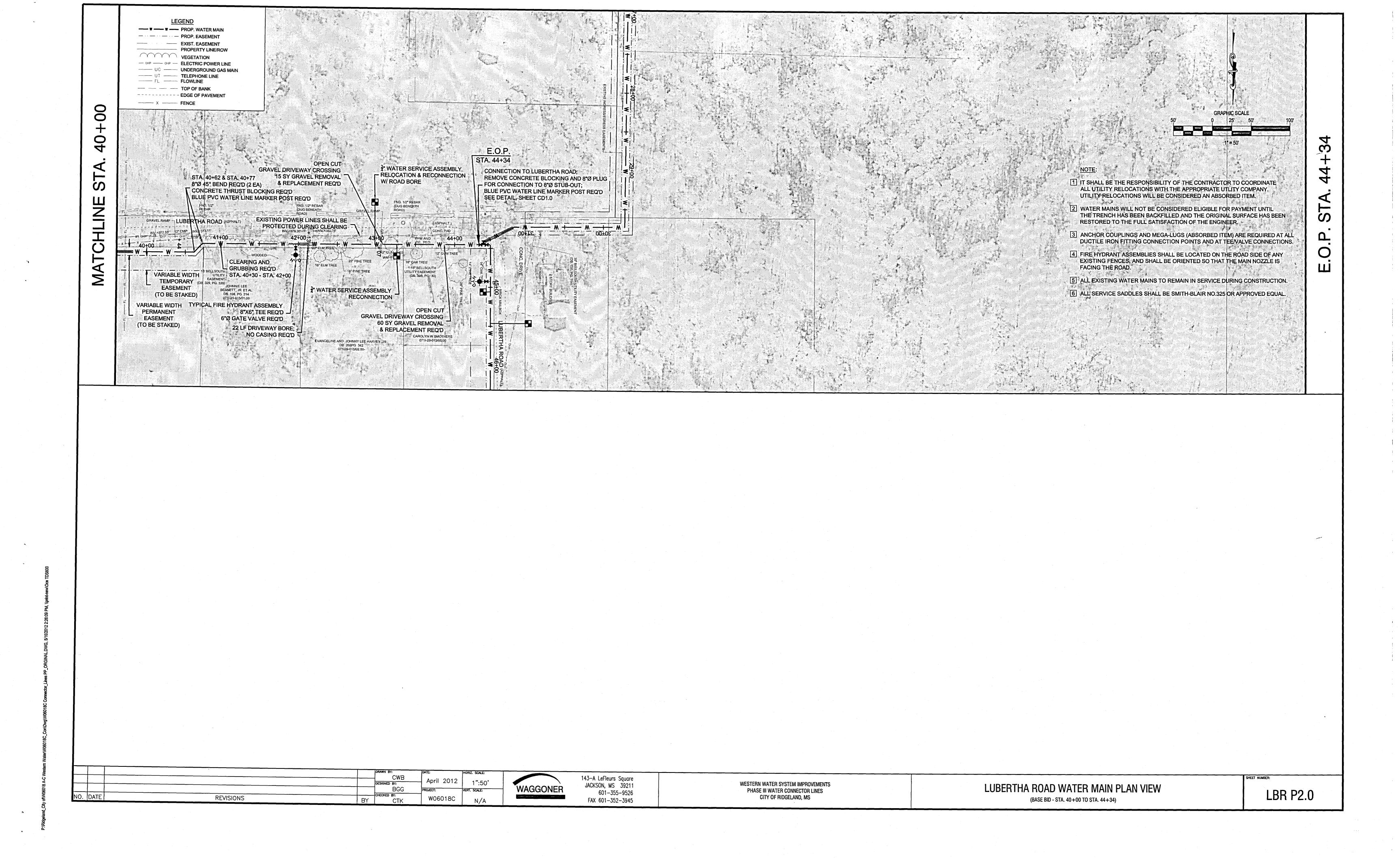
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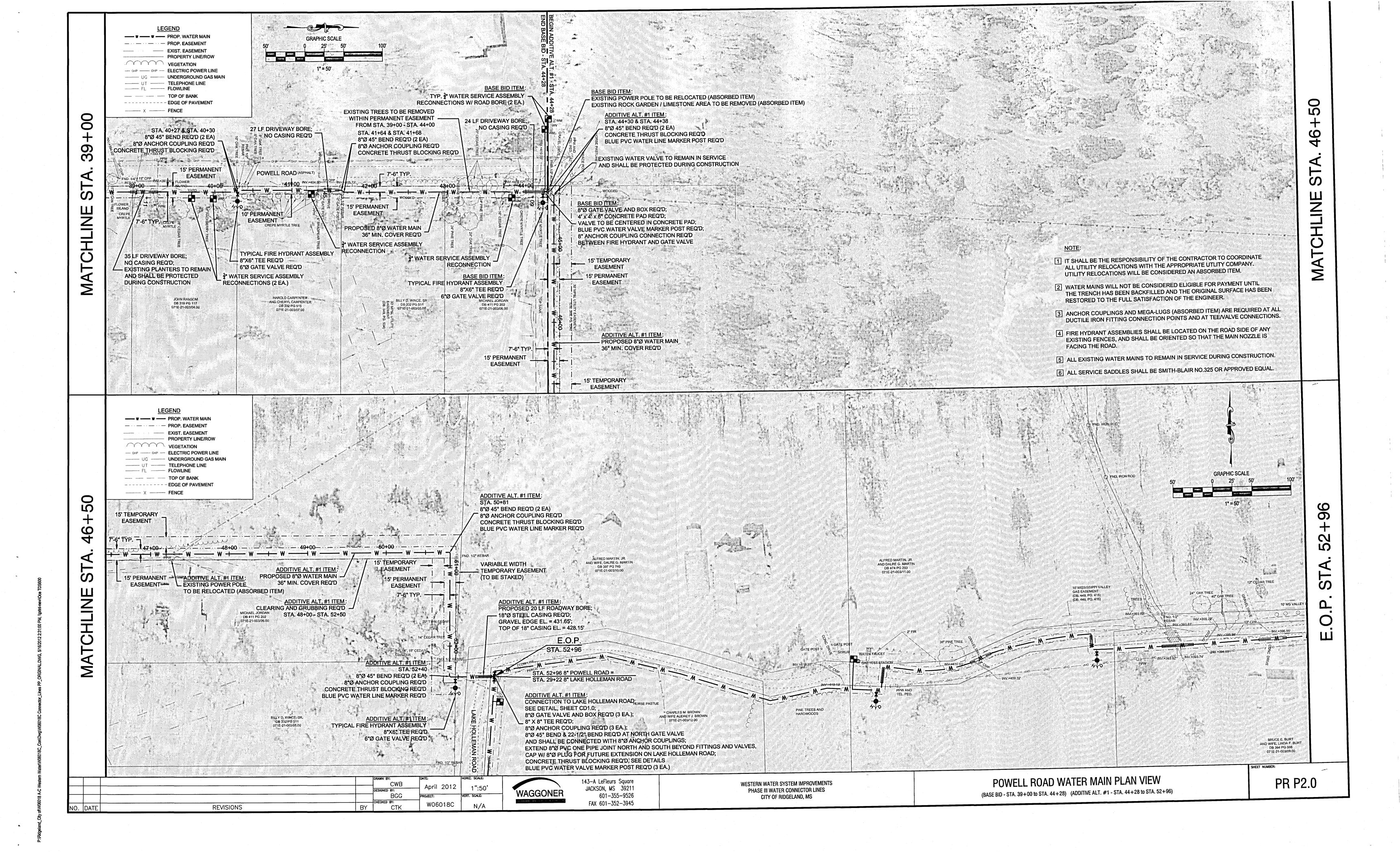
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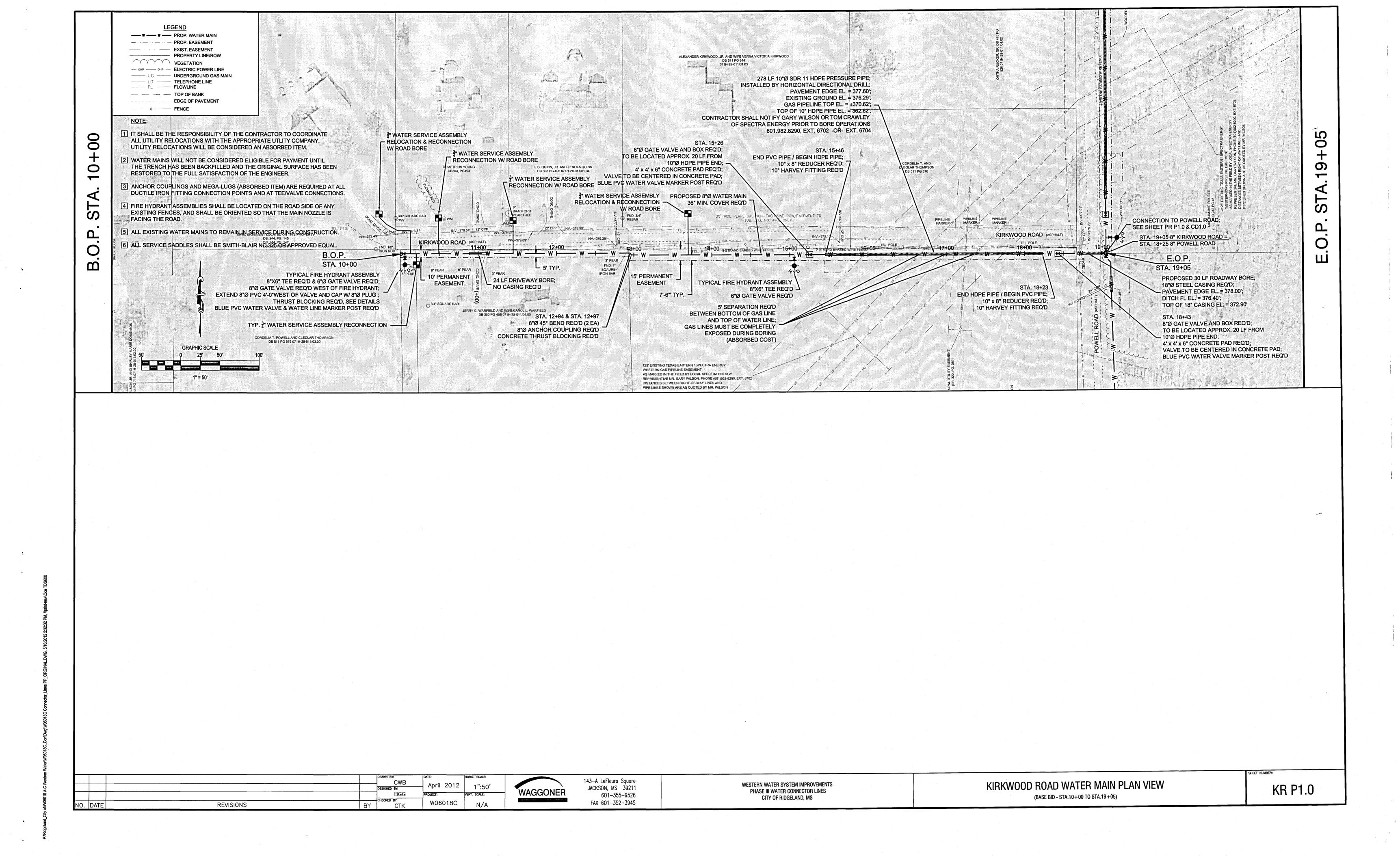


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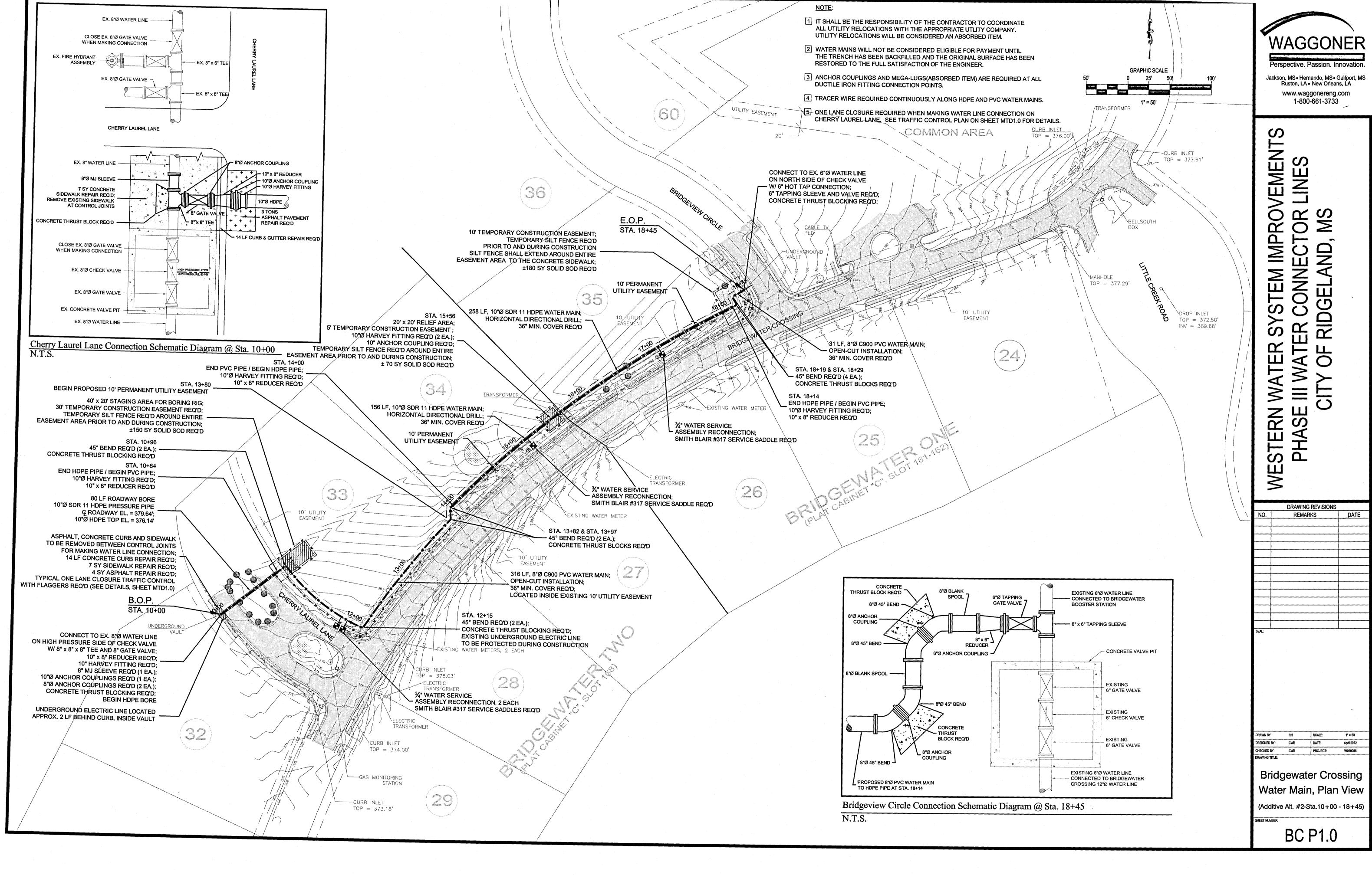


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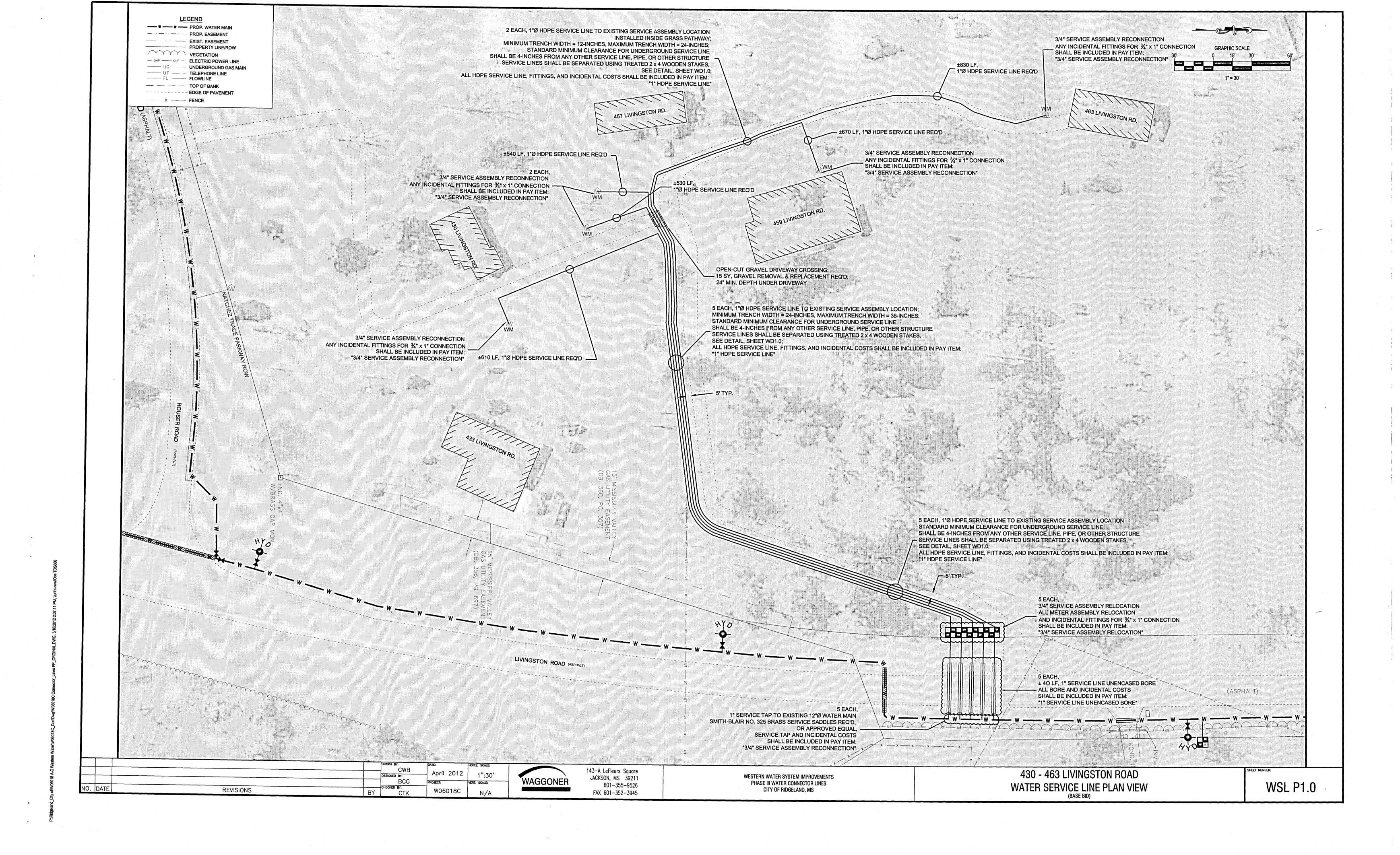




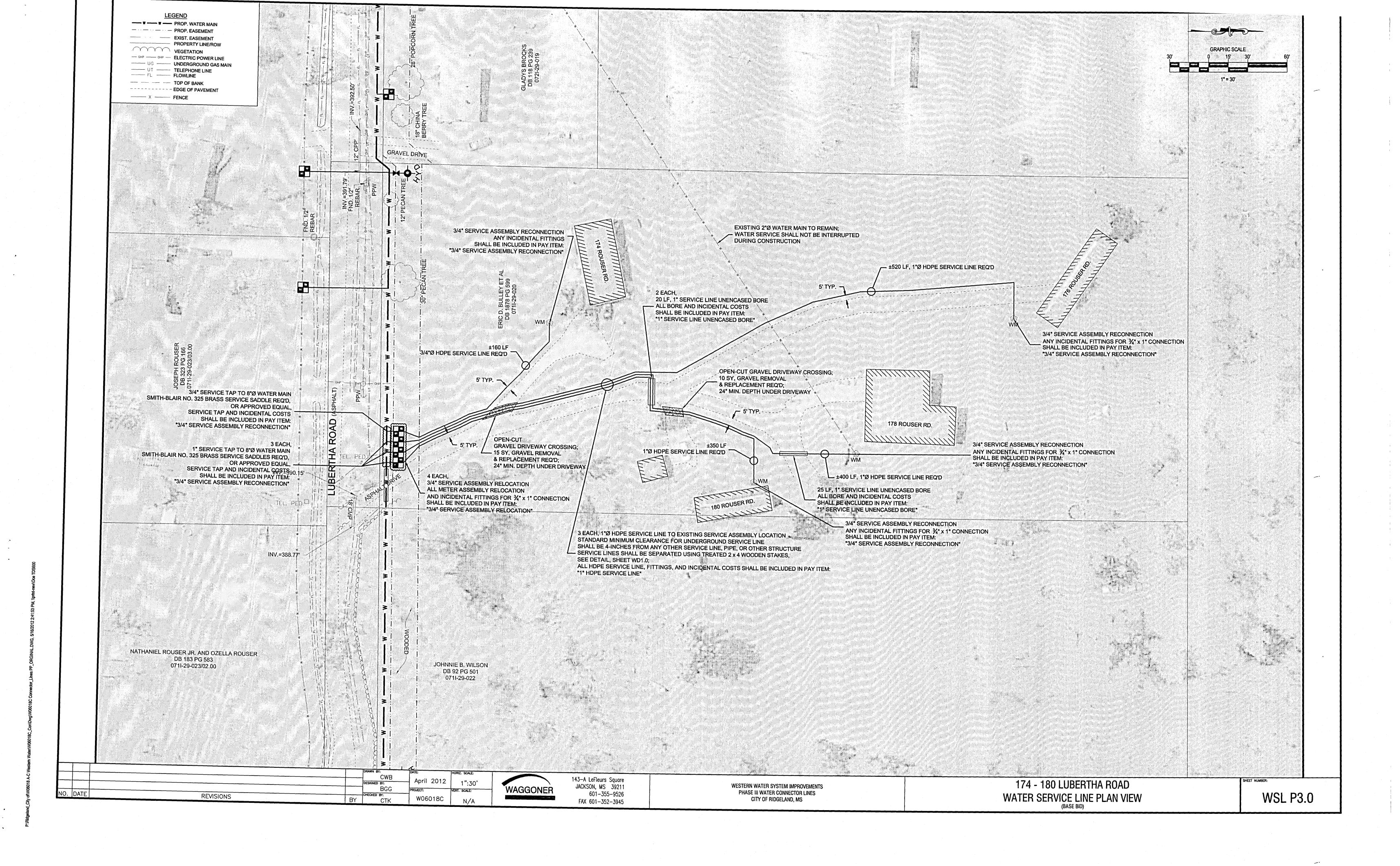
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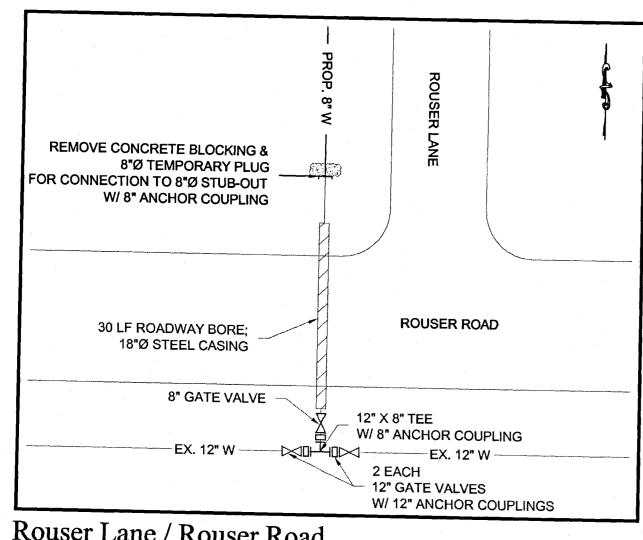


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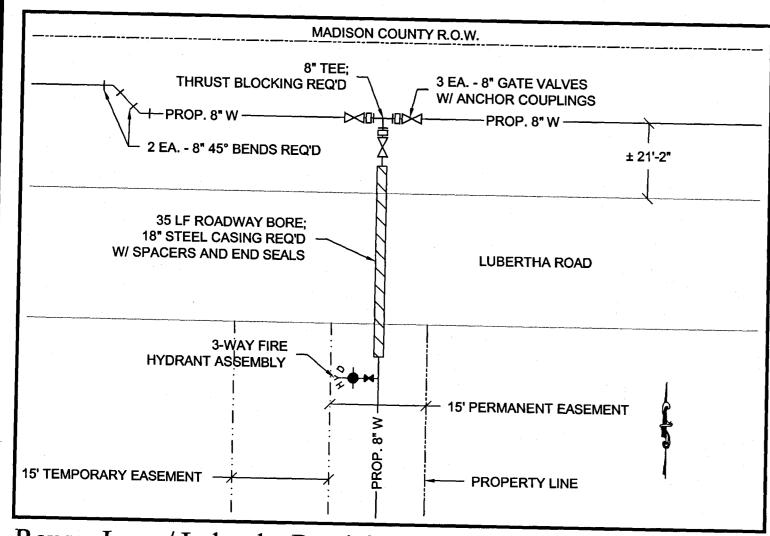


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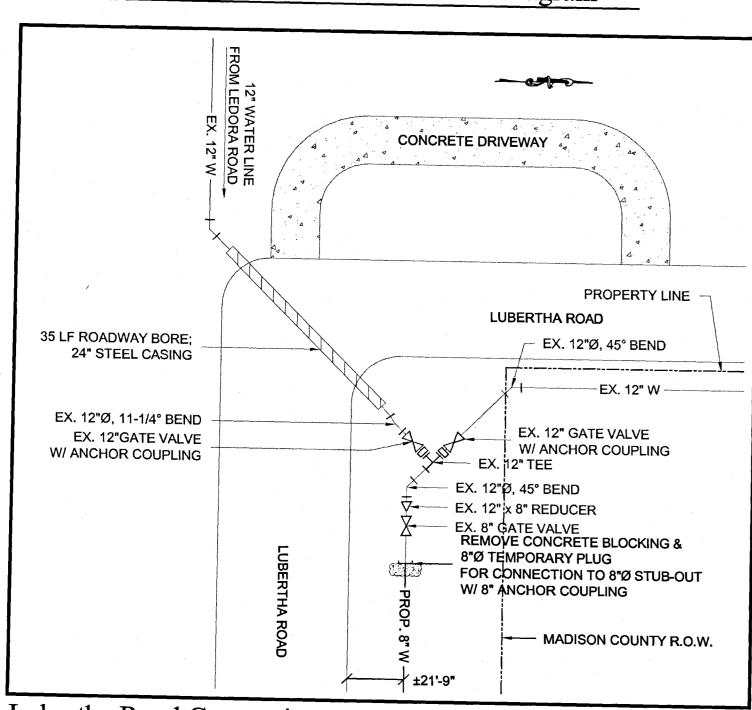




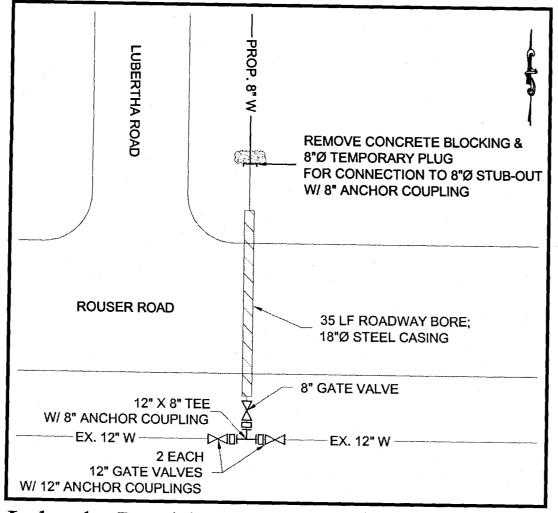
Rouser Lane / Rouser Road Connection Schematic Diagram



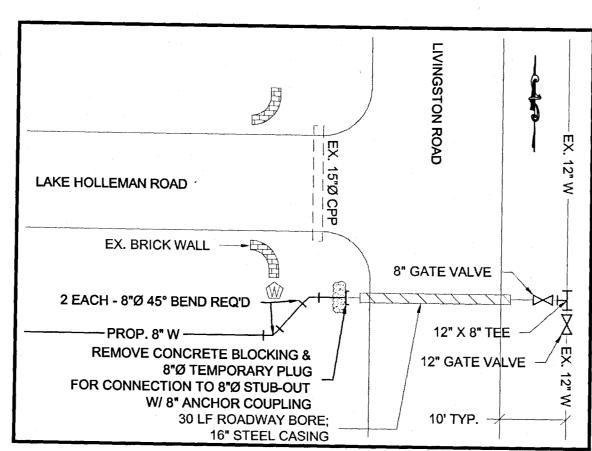
Rouser Lane / Lubertha Road Connection Schematic Diagram N.T.S.



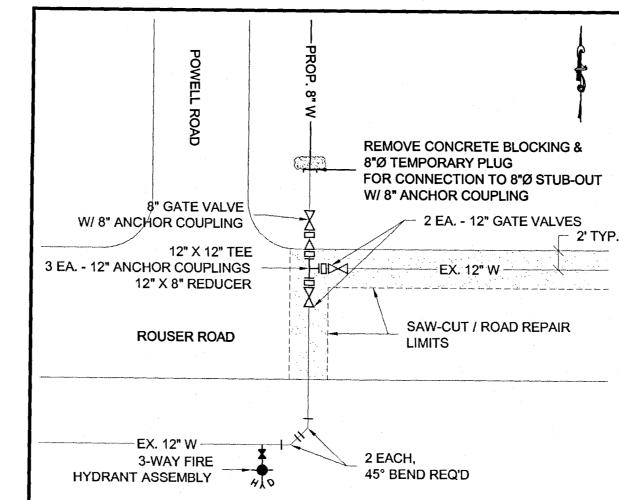
Lubertha Road Connection Schematic Diagram



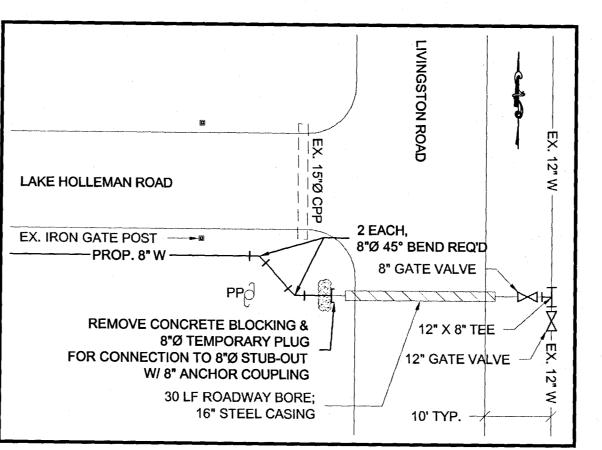
Lubertha Road / Rouser Road Connection Schematic Diagram



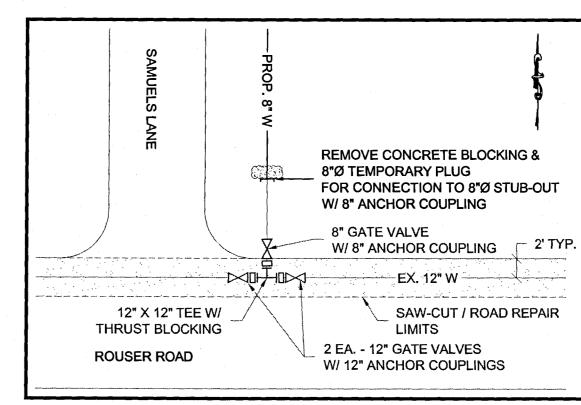
Lake Holleman Road B.O.P. / Livingston Road Connection Schematic Diagram



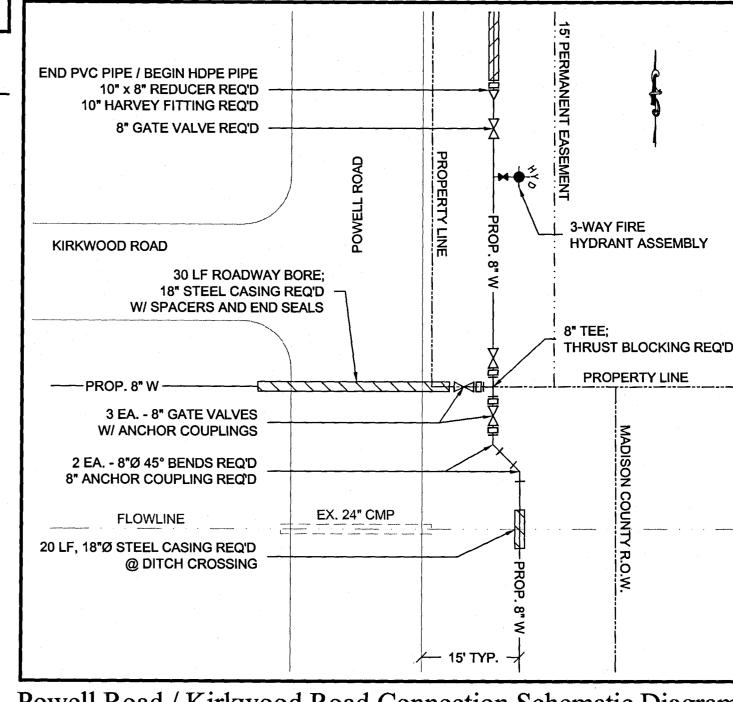
Powell Road / Rouser Road Connection Schematic Diagram



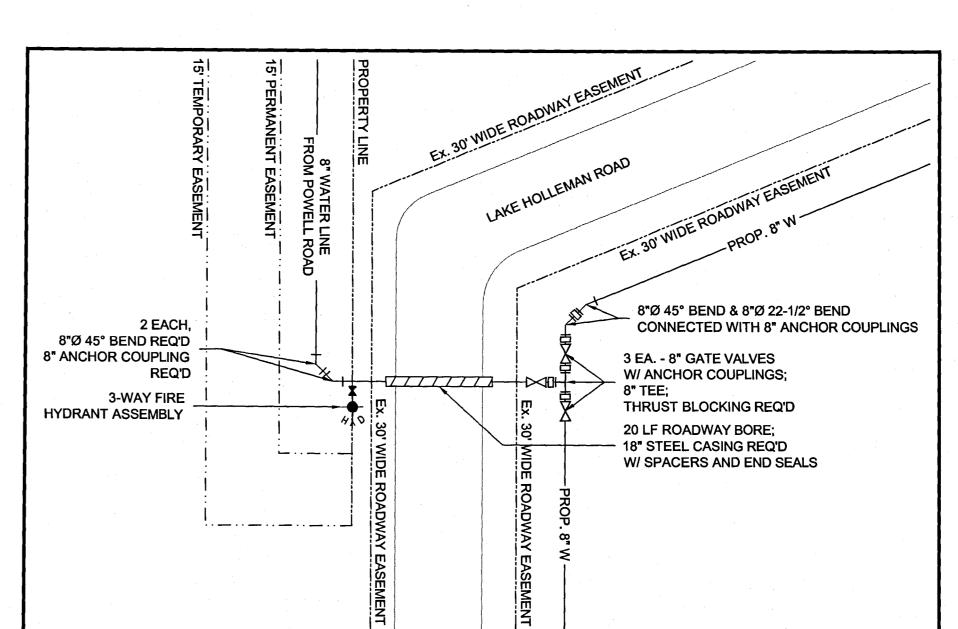
Lake Holleman Road E.O.P. / Livingston Road Connection Schematic Diagram



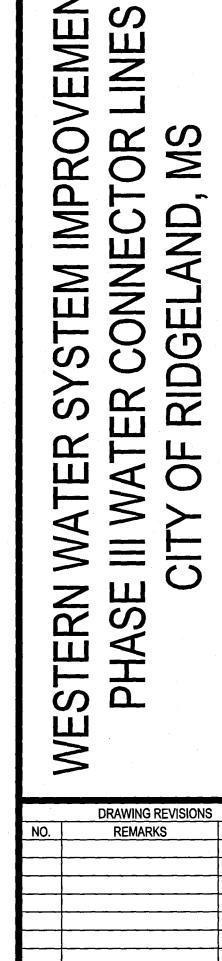
Samuels Lane / Rouser Road Connection Schematic Diagram



Powell Road / Kirkwood Road Connection Schematic Diagram



Powell Road / Lake Holleman Road Connection Schematic Diagram



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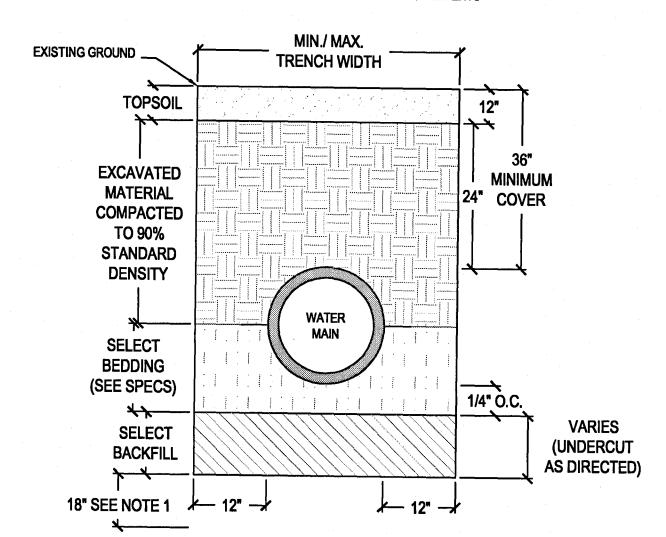
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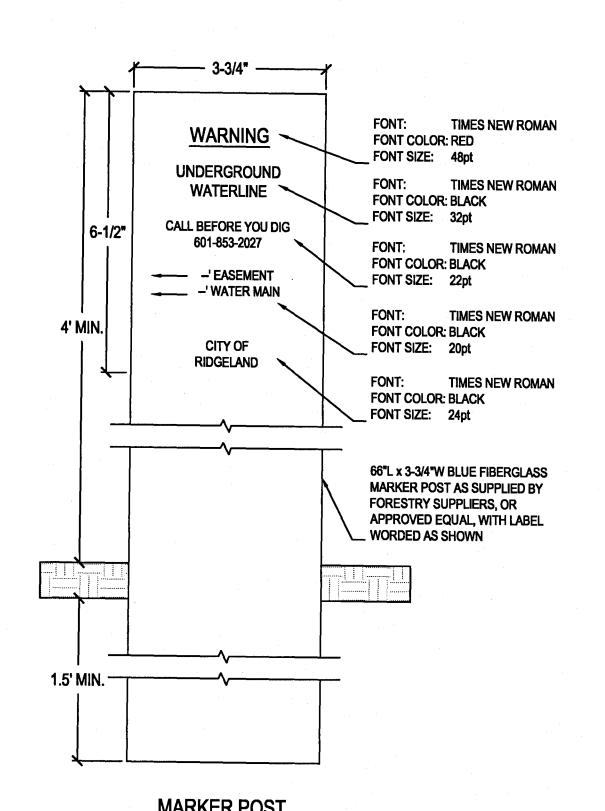
15' TEMPORARY EASEMENT 15' PERMANENT EASEMENT 3 EA. - 8" GATE VALVES W/ ANCHOR COUPLINGS -PROP. 8" W ~ THRUST BLOCKING REQ'D PROPERTY LINE 3-WAY FIRE HYDRANT ASSEMBLY

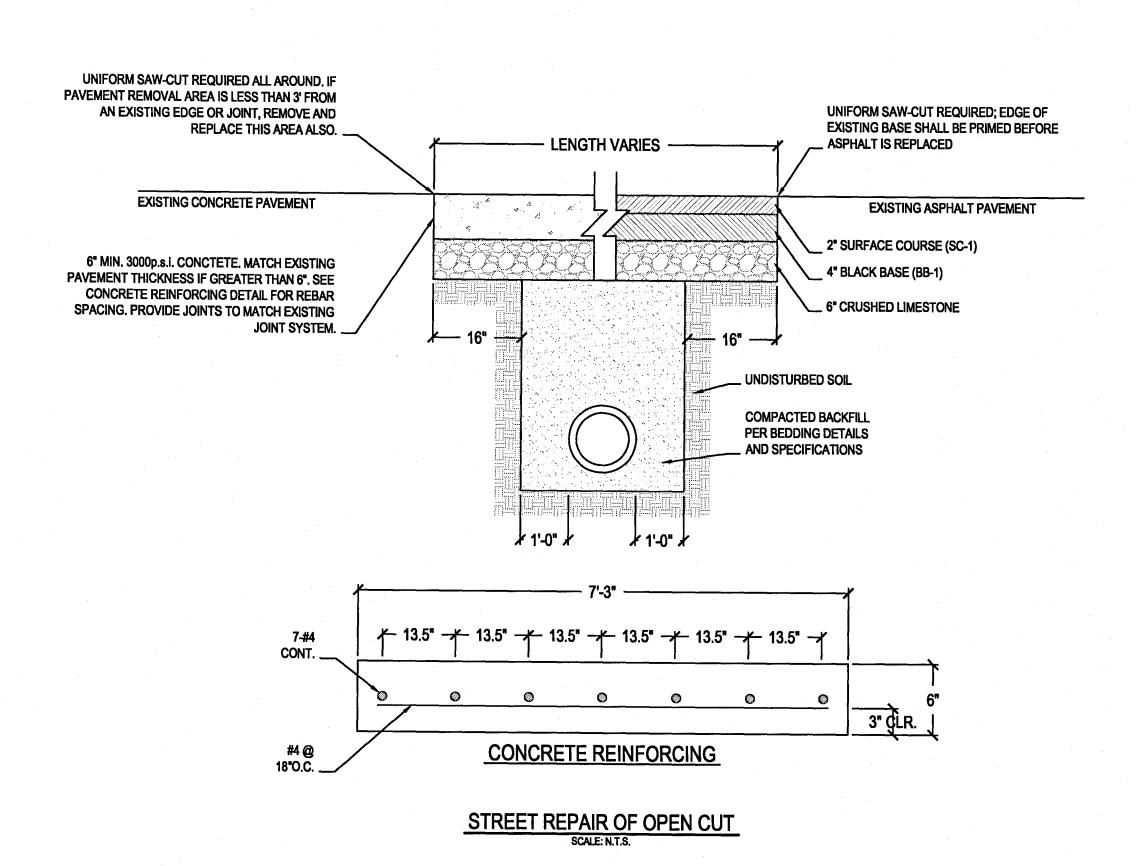
Powell Road / Samuels Lane Connection Schematic Diagram 1) DEWATERING REQUIRED TO THIS LEVEL (MIN.). THE CONTRACTOR SHALL MAINTAIN WATER LEVEL TO A LEVEL OF 18" OR GREATER BELOW THE UNDERCUT DEPTH OR THE TRENCH SUBGRADE, WHICHEVER IS DEEPER, BEFORE PIPE PLACEMENT WILL BE ALLOWED.

2) SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS



TRENCH DETAIL SCALE: N.T.S.



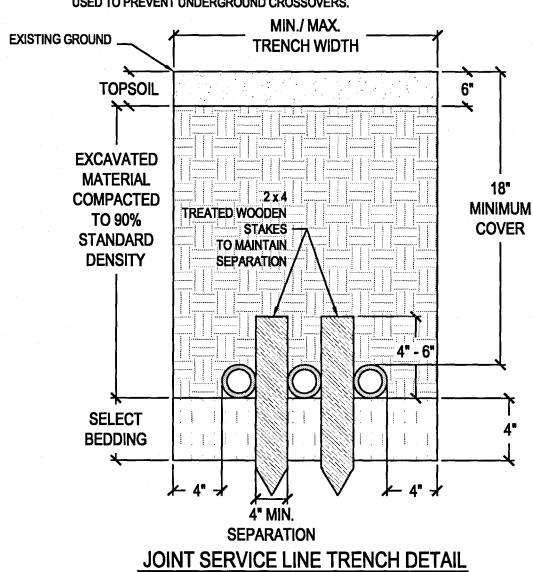


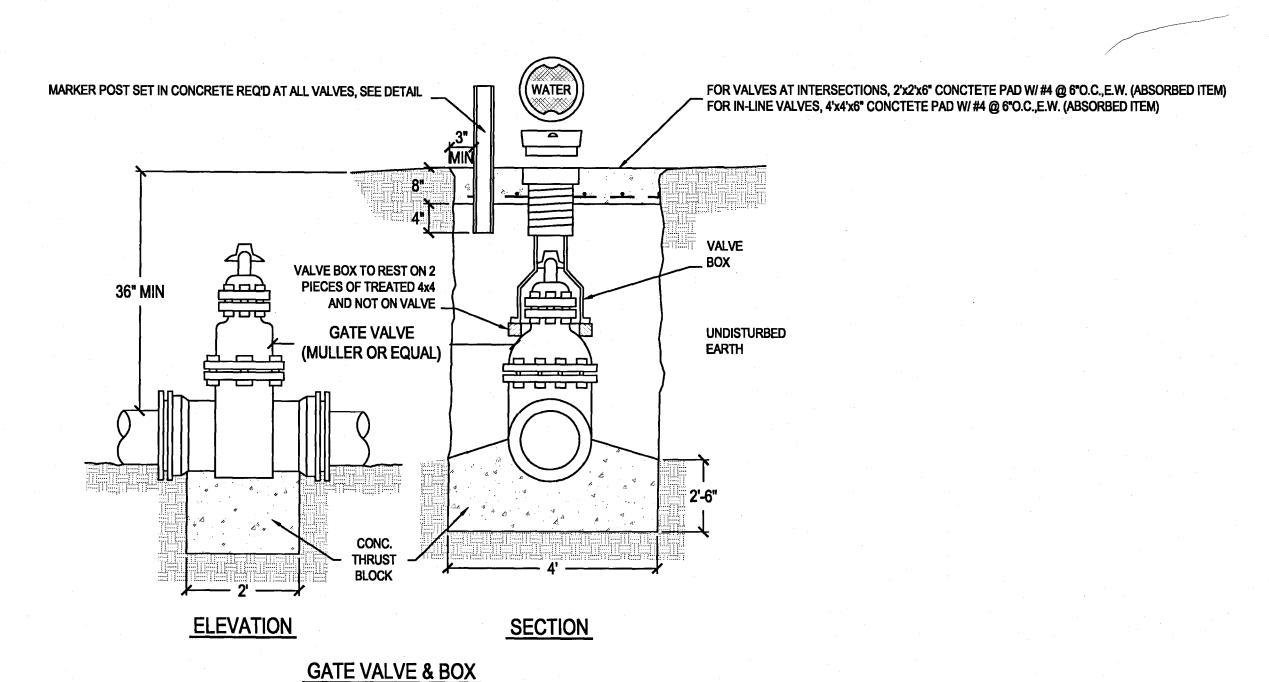
NOTE:

1) BOTTOM OF TRENCH SHALL BE FREE FROM CONSTRUCTION DEBRIS, GLASS, ROCKS, CLODS, AND TRASH.

2) THE MATERIAL USED FOR BACKFILLING SHALL BE FREE FROM CONSTRUCTION DEBRIS, GLASS, ROCKS, CLODS, AND TRASH. EXCAVATED MATERIAL MAY BE ALLOWED WHERE SOIL CONDITIONS ARE PERMISSIBLE. WET SOIL WILL NOT BE ALLOWED FOR BACKFILL.

3) THE SERVICE LINES SHALL NOT VERTICALLY CROSS IN THE TRENCH.
TREATED 2 x 4 WOODEN STAKES, OR OTHER APPROVED SPACERS, SHALL BE
USED TO PREVENT UNDERGROUND CROSSOVERS.





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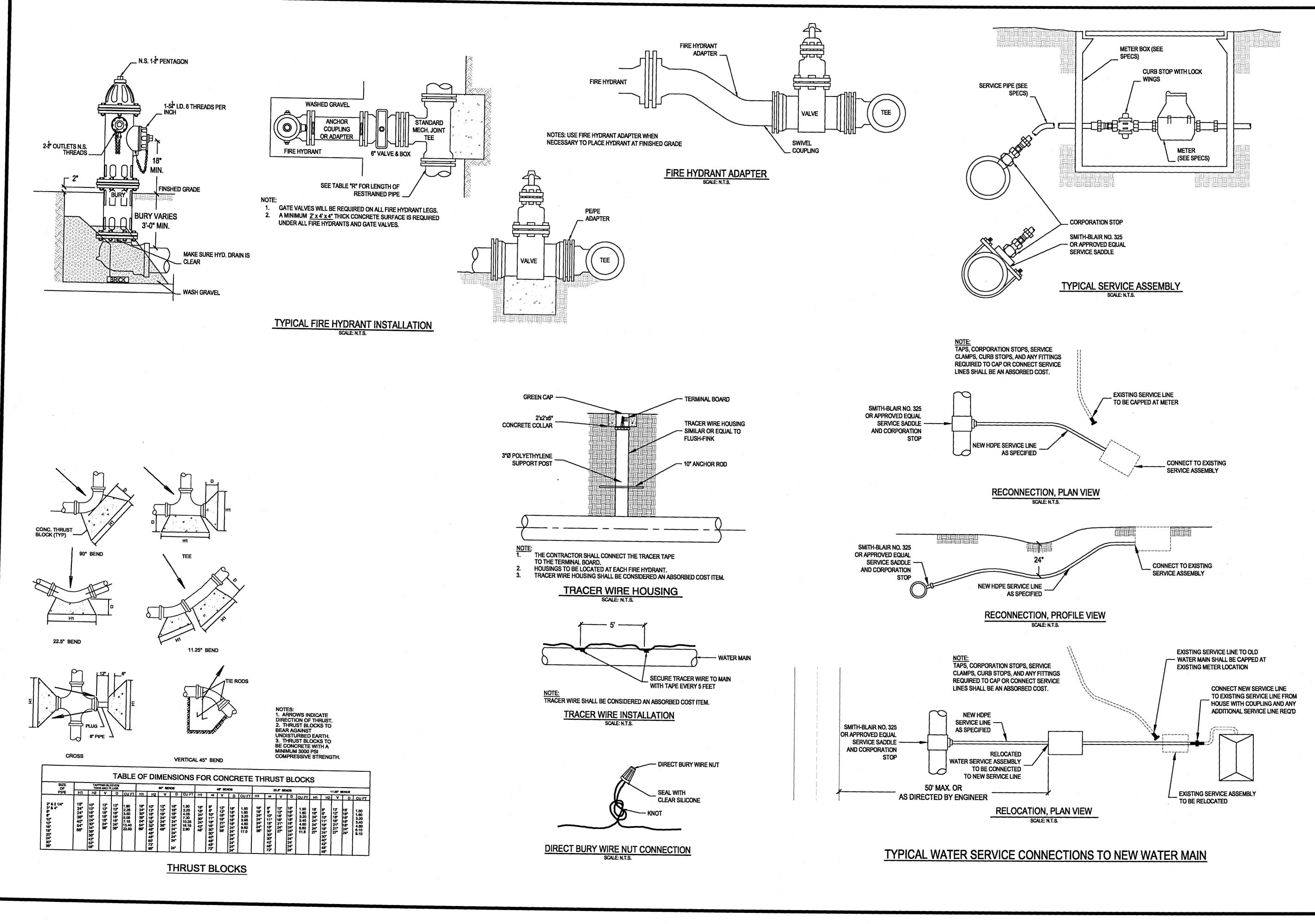
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WESTERN WATER SYSTEM IMPROVEMENTS
PHASE III WATER CONNECTOR LINES
CITY OF RIDGELAND, MS

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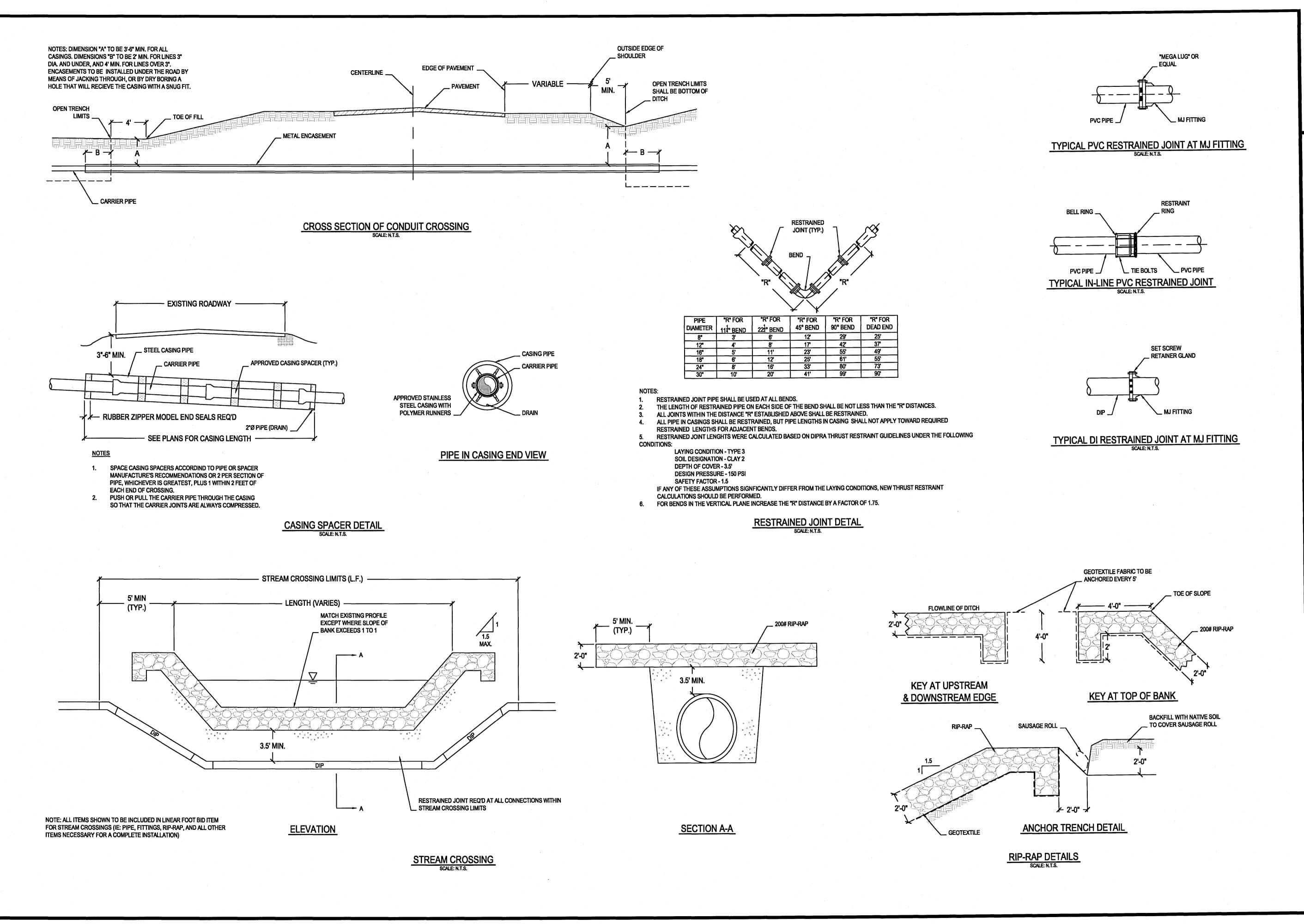


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WESTERN WATER SYSTEM IMPROVEMENTS PHASE III WATER CONNECTOR LINES CITY OF RIDGELAND, MS

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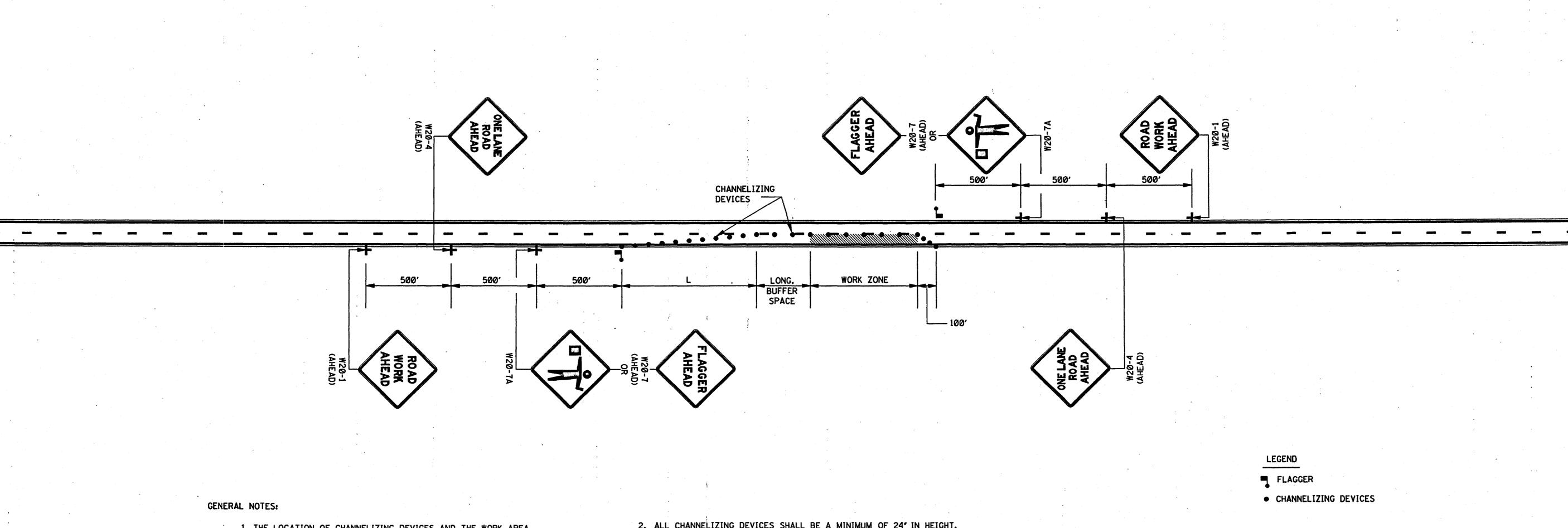


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1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

| | | | , | · |
|---------------------|--|-----------------------------------|-------------------------|---------|
| POSTED SPEED AND/OR | MAXIMUM CHANNELIZING DEVICE SPACING (ft) | | MINIMUM LONGITUDINAL | TAPER † |
| DESIGN SPEED | TAPER | ALONG LANE LINE & WORK ZONE | BUFFER SPACE (ft) | RATES |
| mph | | HORK ZONE | | |
| ≤40 | 40 | 80 | 170 | 27:1 |
| 45 | 45 | 90 | 220 | 45:1 |
| 50 | 50 | 100 | 280 | 50:1 |
| 55 | 55 | 110 | 335 | 55:1 |
| 60 | 60 | 120 | 415 | 60:1 |
| 65 | 65 | 130 | 485 | 65:1 |
| 70 | 70 | 140 | 575 | 70:1 |

- + NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS: L = WS FOR SPEEDS OF 45 mph OR GREATER
- L = WS²/60 FOR SPEEDS OF 40 mph OR LESS
- WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 - W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
 - S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

- 2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 24" IN HEIGHT.
- 3. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
- 4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF $48' \times 48'$.
- 5. WHEN THERE IS NO EXISTING HAZARD OR AT THE END OF THE WORK DAY, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
- 6. WHERE THE WORK ZONE IS STATIONARY, THE W20-7 (500 FT.) SIGN OR THE W20-7A SIGN TOGETHER WITH THE W20-7 (500 FT.) SUPPLEMENTAL PLATE SHOULD BE USED TO INDICATE THE DISTANCE TO THE FLAGGER.

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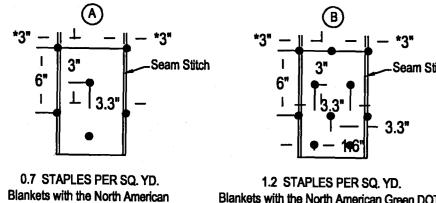
1. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY

2. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

STEEL POST SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE. WOOD POST SHALL BE A MINIMUM OF 5'-0" IN HEIGHT AND 3" OR MORE IN DIAMETER. WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN 9 GAGE WIRE STAPLES 1" LONG.

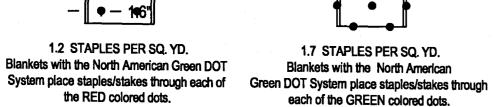
GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE

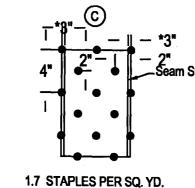
SILT FENCE DETAILS



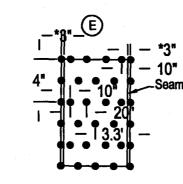
Green DOT System place staples/stakes

through each of the BLUE colored dots.



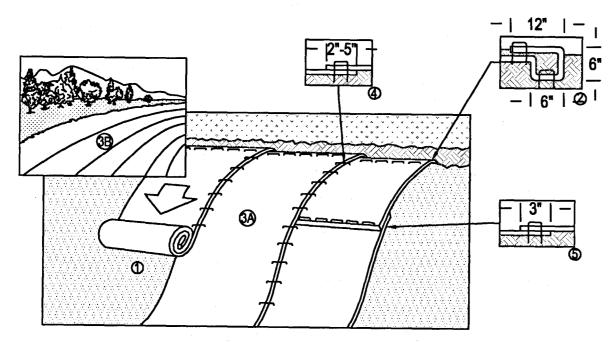


3.4 STAPLES PER SQ. YD. Blankets with the North American Green DOT System place staples/stakes through each of the WHITE colored dots.



3.8 STAPLES PER SQ. YD. Blankets with the North American Green DOT System place staples/stakes through each of the YELLOW colored dots.

DRAINAGE BLANKET STAPLE PATTERN TYPES



NOTE: SEE EROSION CONTROL PLAN

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

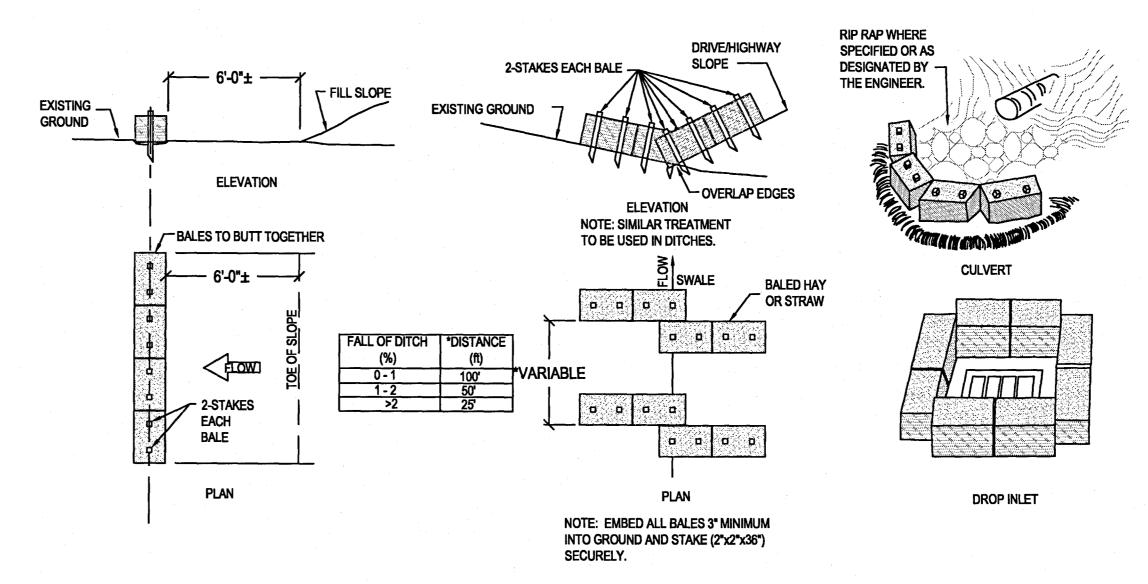
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

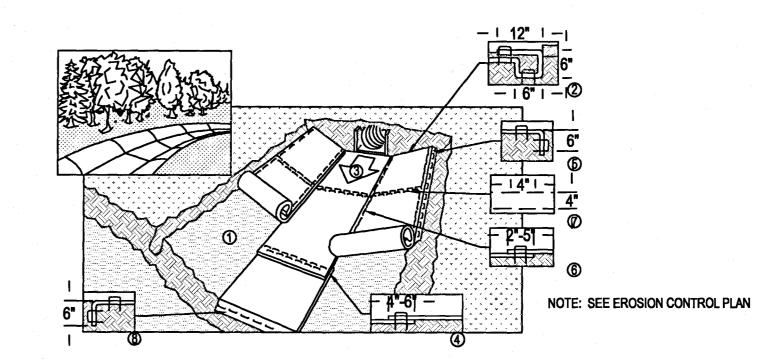
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

DRAINAGE BLANKET "SLOPE" INSTALLATION

NOTE: WATTLES SHALL BE USED IN PLACE OF HAY BALES FOR ALL EROSION CONTROL MEASURES SHOWN BELOW, SEE SHEET WD6.0



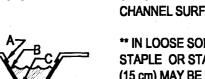
EROSION/SEDIMENTATION CONTROL DETAILS



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER. AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED
- 2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL, BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP, USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.

- 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
- IN CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

CRITICAL POINTS: A. OVERLAPS AND SEAMS B. PROJECTED WATER LINE C. CHANNEL BOTTOM/SIDE SLOPE



* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

DRAINAGE BLANKET "CHANNEL" INSTALLATION

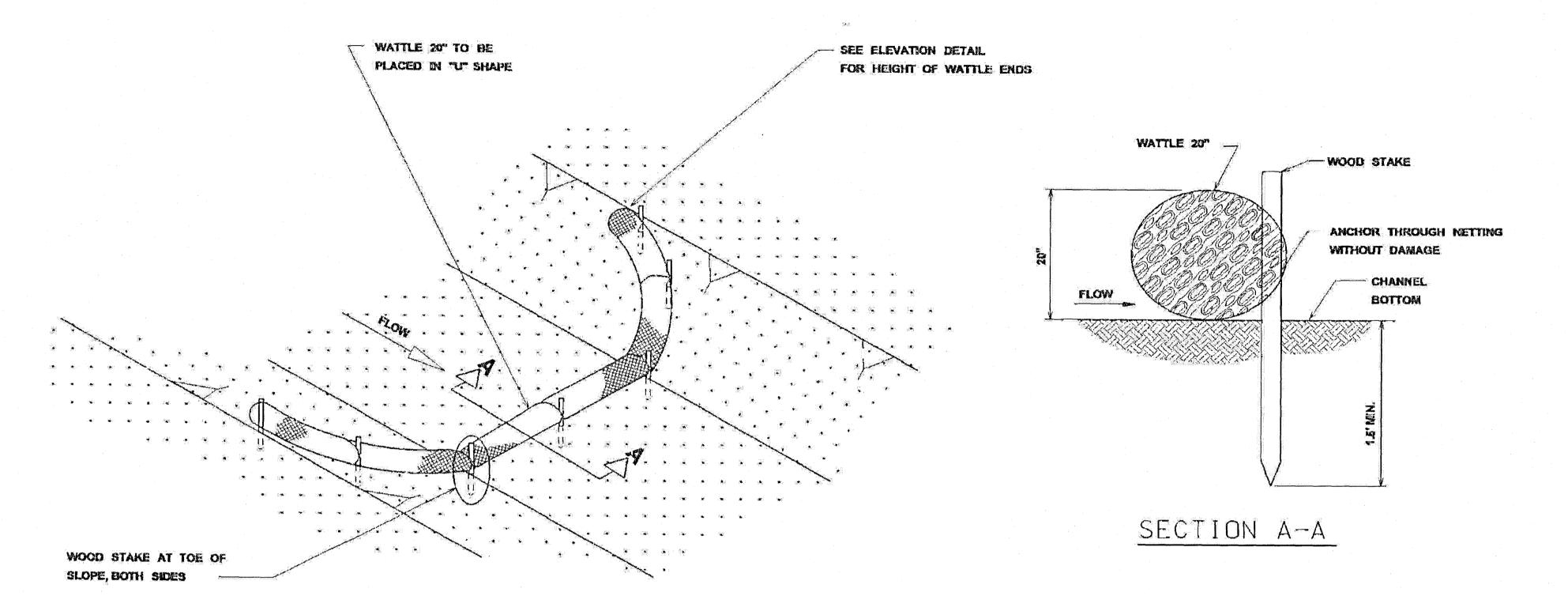
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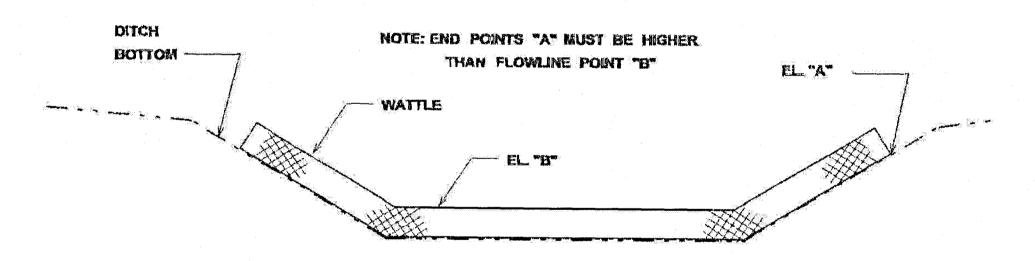
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DETAIL (DITCH CHECK)



ELEVATION DETAIL

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.



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WESTERN WATER SYSTEM IMPROVEMENTS PHASE III WATER CONNECTOR LINES CITY OF RIDGELAND, MS

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IOTES:

- 1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4
- 2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
- 3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
- 4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.