

# EXHIBIT A-4 PLANS

# NORTHERN KENTUCKY WATER DISTRICT SUB-DISTRICT 'O' WATER MAIN EXTENSION

KENTON COUNTY, KENTUCKY 231591

### NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

PRESIDENT / CEO

### COMMISSIONERS

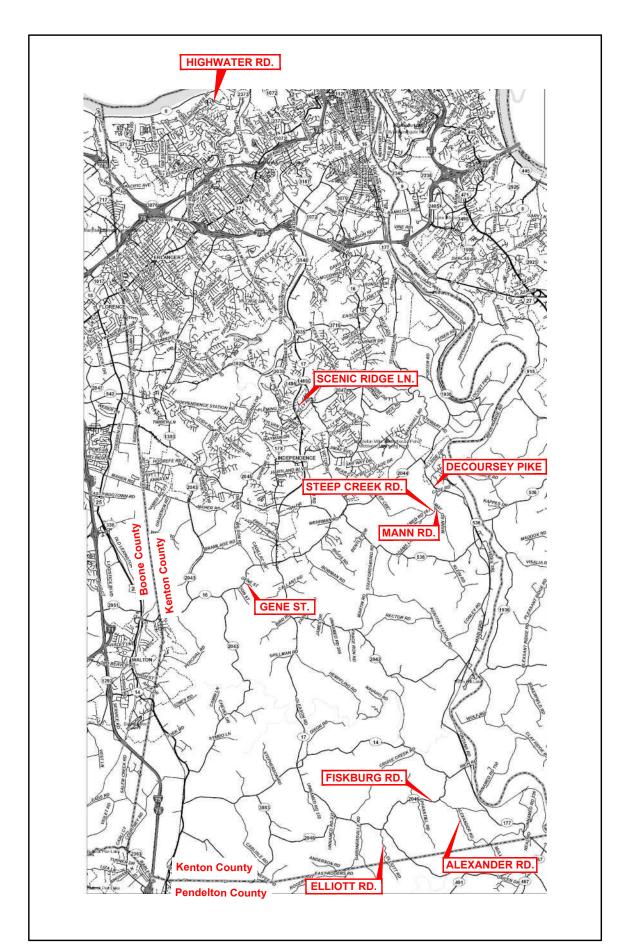
JODY R. LANGE (Chair)

DOUGLAS C. WAGNER (Vice-Chair)

NICHOLAS E. WINNIKE (Secretary, GARY E. HOLLAND (Treasurer)

FRED A. MACKE, JR. (Commissioner,

JOSEPH J. KOESTER (Commissioner)



# **VICINITY MAP**

# NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS AND DRAWINGS OF THE NORTHERN KENTUCKY WATER DISTRICT FOR THE INSTALLATION OF WATER MAIN AND METER PITS SHALL GOVERN ALL WATER MAIN CONSTRUCTION ITEMS ON THIS PROJECT.

# **KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS**

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

# SOURCE OF OUNDARY AND TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A SURVEY BY CT CONSULTANTS, INC.

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED ON PLANNING AND DEVELOPMENT SERVICES (P.D.S.) G.I.S. MAPPING.

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SHEET NAME

TITLE

ENTILCKY WATER DISTRICT	ISSUED FOR:	OIB	ON	RE\
UBDISTRICT 'O'	ISSUE DATE:	APRIL 2025		
KENTON COUNTY -	SCALE:	AS SHOWN		
	DESIGNED BY:	JCOR		
ITLE SHEET	DRAWN BY:	JCOR		
	СНЕСКЕD ВУ:	JSHU		



JAMES M. SHUMATE P.E. #18156



PROJECT NO.

231591

DISCIPLINE

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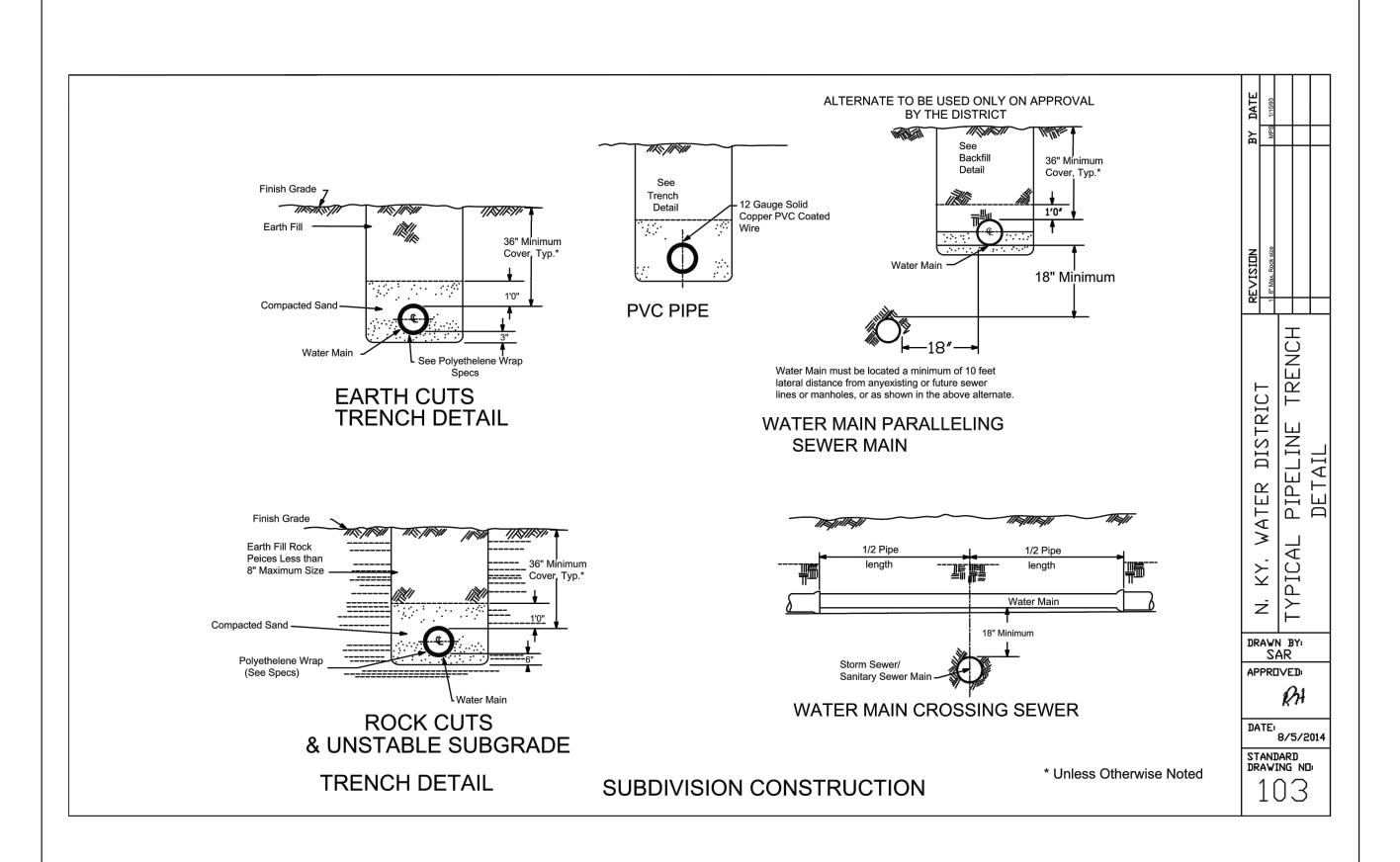
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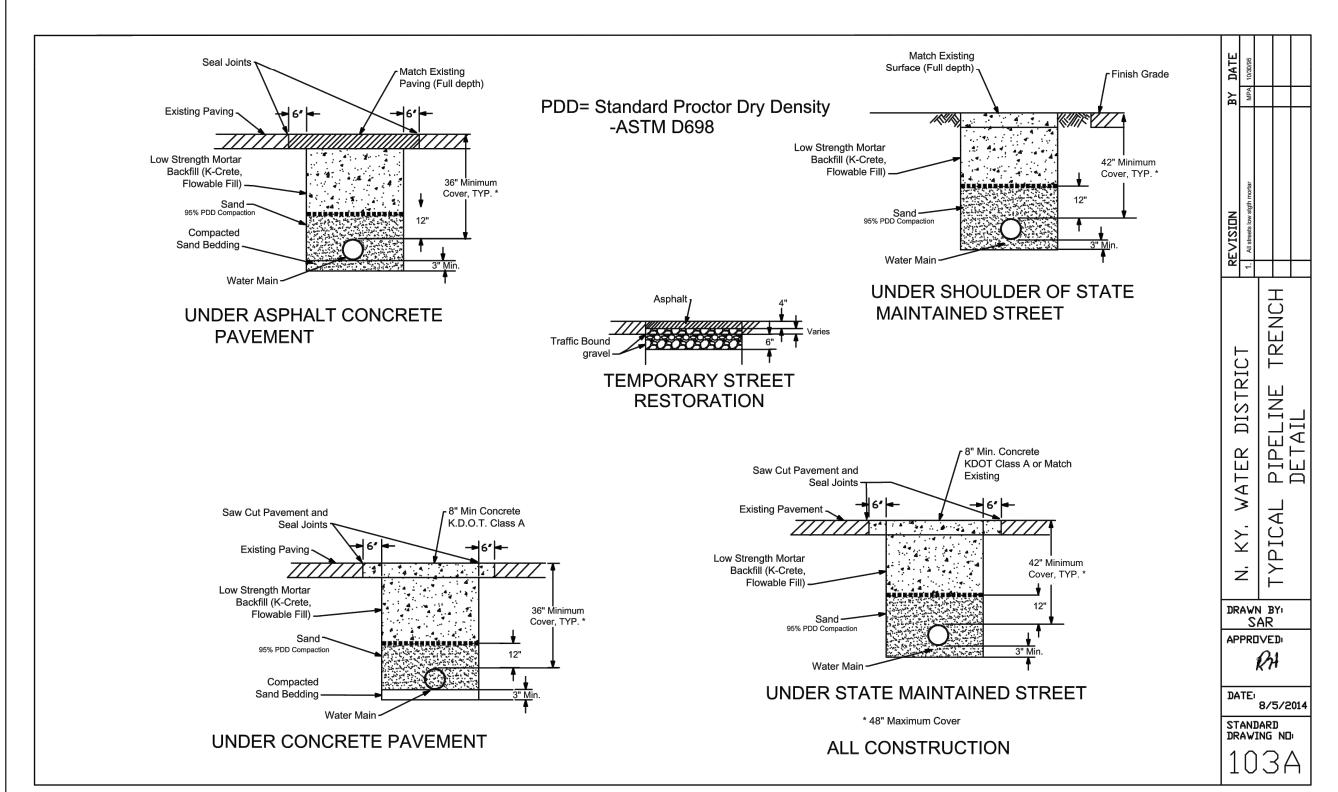
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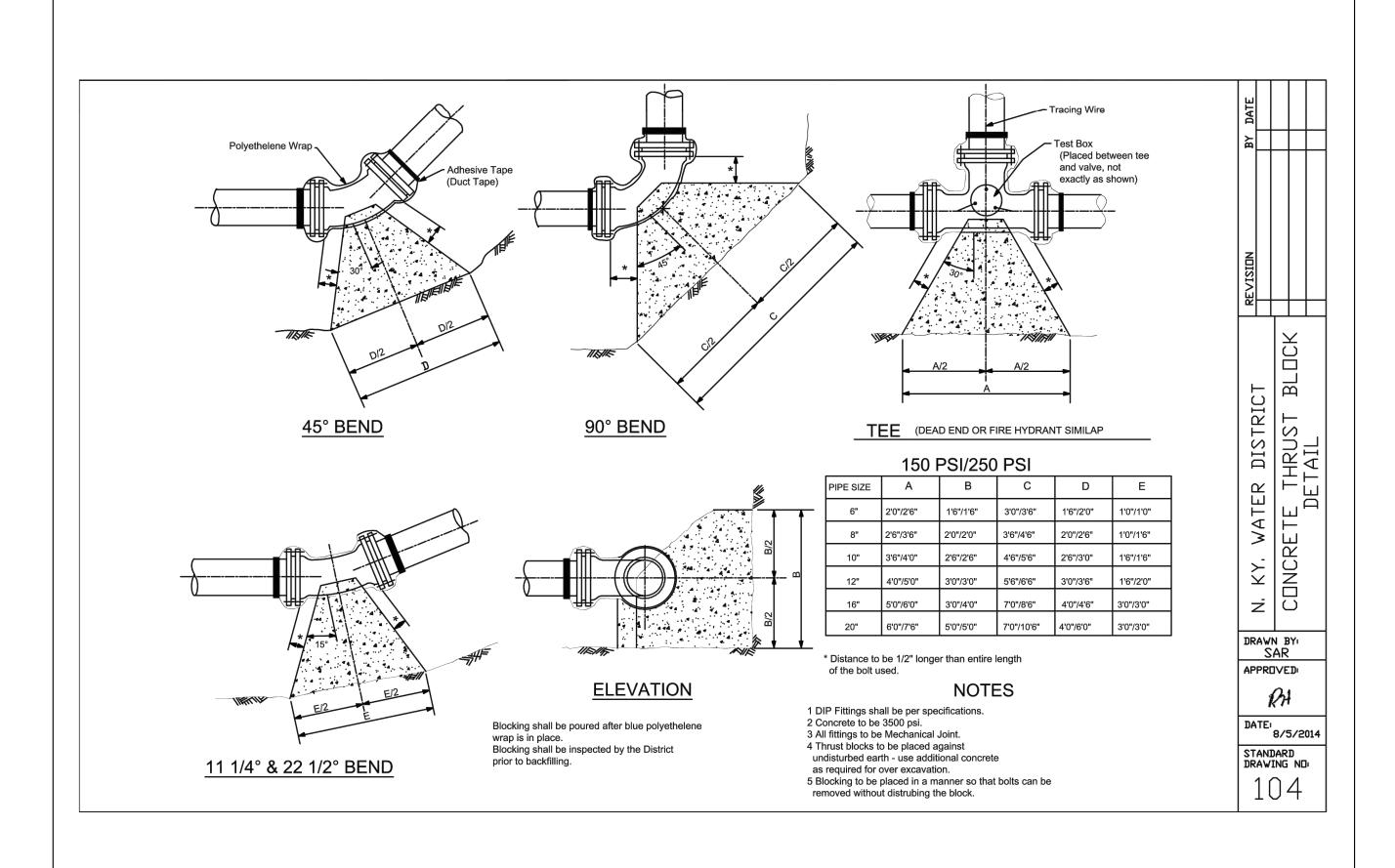
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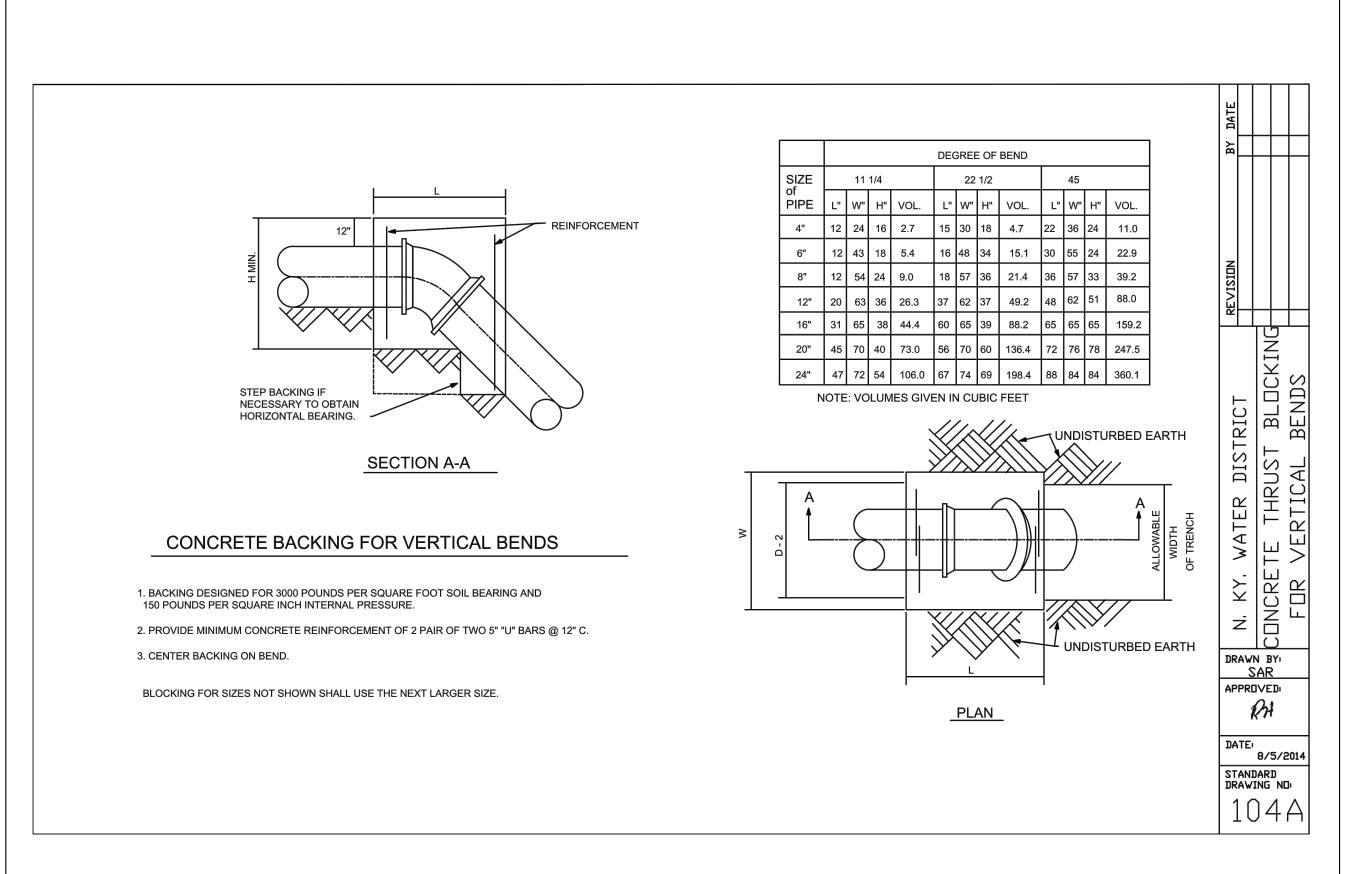
### **GENERAL NOTES UTILITY NOTES** WATER DISTRICT GENERAL NOTES **MAINTENANCE OF TRAFFIC NOTES** SYMBOL LEGEND THE EXISTING WATER MAIN ELEVATION AND LOCATION AT THE CONNECTION ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND — G— G— EXISTING GAS LINE POINT WITH THE PROPOSED MAIN WAS ASSUMED AND HAS NOT BEEN FIELD THE LATEST EDITION OF THE NORTHERN KENTUCKY WATER DISTRICT UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT ———— GS ———— GS ———— GS ———— EXISTING GAS SERVICE VERIFIED. PRIOR TO COMMENCEMENT OF ANY WATER MAIN WORK, THE STANDARD SPECIFICATIONS AND DRAWINGS AND THE KENTON COUNTY OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR CONTRACTOR SHALL DIG A TEST HOLE AT THE CONNECTION POINT TO SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE KTC STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS LOCATE EXISTING WATER MAIN AS TO LOCATION AND ELEVATION. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE TO LOCAL TRAFFIC (INCLUDING ACCESS TO RESIDENCES WITHIN EXISTING WATER MAIN LOCATION MAY REQUIRE SOME FIELD ADJUSTMENT CONSTRUCTION LIMITS) AT ALL TIMES UTILIZING KTC STANDARD DRAWING RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE TO THE PROPOSED WATER MAIN INCLUDING ADJUSTING THE DEPTH OF THE TTC-100-05 "SINGLE LANE CLOSURE ON TWO-LANE HIGHWAY". THE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR PROPOSED WATER MAIN. COST OF DOING THE ABOVE SHALL BE INCIDENTAL 2. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE SHALL PRACTICE CARE DURING THE GRADING AND TRENCH CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, ———— W———— W———— EXISTING WATER MAIN TO THE PERTINENT WATER MAIN ITEM. CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR TRAVELING PUBLIC. LENGTH OF SINGLE LANE CLOSURES WILL BE HELD TO COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS EXPENSE. DISTANCES NOT ADVERSELY AFFECTING VEHICLE SAFETY. INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A —— — RD — — RD — — RD — — RD — EXISTING ROOF DRAIN BY N.K.W.D. AND THE PROPERTY OWNER ALONG WITH COUNTY OR STATE RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS 2. PRIOR TO ANY EXCAVATION OVER AN EXISTING UTILITY LINE OR .. ALL UNBACKFILLED TRENCH EXCAVATION SHALL BE SECURELY PLATED AT THE WHEN REQUIRED. AFTER CONSTRUCTION. SERVICE, CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THE END OF EACH WORK DAY AND DURING PERIODS OF INACTIVITY. ———— S ———— S ———— S ———— EXISTING SANITARY SEWER UTILITY AND DETERMINE LOCATION AND DEPTH. NOTIFY ENGINEER ——— FM ——— FM ——— FM ——— EXISTING SANITARY FORCE MAIN THE UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT . IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER IMMEDIATELY OF ANY CONFLICTS. INFORMATION RECEIVED FROM OTHERS AND HAS NOT BEEN VERIFIED BY PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT. — FO FO EXISTING FIBER OPTICS THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE SEEDING OF DISTURBED GROUND. 3. TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT — X—— X—— X—— X—— X—— X—— EXISTING FENCE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND COORDINATE ANY IMPACT CAUSED BY THE PROPOSED WORK WITH ALL RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO APPROPRIATE STATE, COUNTY AND/OR LOCAL POLICE DEPARTMENTS. AT ALL EXISTING CONTOURS (MAJOR) UTILITY OWNERS AND/OR THEIR CONTRACTORS. THE CONTRACTOR WILL BE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE THE CONTRACT. TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS. ------ EXISTING CONTOURS (MINOR) REQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSINGS TO LOCATE THE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY. UTILITY AS TO BOTH LOCATION AND ELEVATION AND WILL BE REQUIRED TO 4. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR ----- EXISTING RIGHT OF WAY REALIGN AND ADJUST THE ELEVATION OF THE PROPOSED WATER MAIN TO THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE PROPERTY AT ALL TIMES. -----EXISTING PROPERTY LINE AVOID THE UTILITY. COST OF ALL THE ABOVE SHALL BE INCIDENTAL TO THE RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES OVERALL CONTRACT PRICE. — — — — — — EXISTING EASEMENT GIVEN BY THE PROPERTY OWNER AND APPROVED BY FORT N.K.W.D. THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE, RETURN ALL REMOVED 6. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE EXISTING TREE LINE WATER EQUIPMENT INCLUDING, FIRE HYDRANTS, VALVES, AND WATER DURING CONSTRUCTION. AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF AT LEAST METERS TO NORTHERN KENTUCKY WATER DISTRICT (N.K.W.D). 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE EXISTING ROCK WALL NO CONSTRUCTION SHALL COMMENCE UNTIL ALL STATE, COUNTY AND LOCAL "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY PERMITS HAVE BEEN ISSUED AS REQUIRED SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING SANITARY/COMBINED SEWER. SEPTIC TANK OR SUBSOIL TREATMENT IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE 8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES. FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR OF WAY WITH THE KENTUCKY TRANSPORTATION CABINET AND KENTON EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC. G——G——— PROPOSED GAS LINE FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE COUNTY AND ANY LOCAL MUNICIPALITY. LOCAL TRAFFIC MUST BE MAINTAINED GS GS GS GS GS PROPOSED GAS SERVICE WATER AND SEWER PIPES MAY BE REQUIRED. AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE E-UG E-UG EXISTING ELECTRIC (UNDERGROUND / OVERHEAD) CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE C-UG PROPOSED CABLE (UNDERGROUND / OVERHEAD) SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE OF CONSTRUCTION. REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE T-OH PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD) INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION PROPOSED WATER MAIN ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE NORTHERN CONTROL KENTUCKY WATER DISTRICT SPECIFICATIONS. CONTRACTOR IS **STORM & SANITARY NOTES** RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE NORTHERN 10. ALL CONSTRUCTION WORK SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION KENTUCKY WATER DISTRICT'S STANDARD DRAWINGS. — — UD — UD — UD — PROPOSED UNDERDRAIN REPORT PREPARED BY G.A.I. CONSULTANTS DATED FEBRUARY 2024. 1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE ALL MATERIAL FOR THE PROP. WATER MAIN INSTALLATION INCLUDING ALL – ---- UD/DSC ---- UD/DSC ----- PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO LATEST SPECIFICATIONS AND DETAILS FROM SD1. METAL PIPE FITTINGS, BLOCKING, ETC., SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PROPOSED SANITARY SEWER MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON PRICE FOR WATER MAIN. THESE PLANS. FM PROPOSED SANITARY FORCE MAIN COST OF ALL TRENCHING, PIPE, PIPE BEDDING, BACKFILL, YARD 2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORM AND SANITARY PROPOSED FIBER OPTICS RESTORATION AND TEMPORARY PAVEMENT, DRIVEWAY AND SIDEWALK SEWER FLOW THROUGHOUT THE PROJECT, FOR THE DURATION OF RESTORATION SHALL BE PART OF THE COST OF INSTALLING THE WATER — x — x — x — x — x — x — PROPOSED FENCE CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO MAIN. PERMANENT DRIVEWAY RESTORATION, SIDEWALK RESTORATION, PROPOSED CONTOURS (MAJOR) CURB RESTORATION AND STREET RESTORATION WILL BE SEPARATE PAY THE CONTRACT. ITEMS AND INCLUDE INCIDENTALS SUCH AS MAIL BOX, STREET SIGN, AND **GENERAL TRENCH EXCAVATION NOTES** 3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING FENCE REMOVAL AND REPLACEMENT. PROPOSED RIGHT OF WAY AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING. THE PROPOSED WATER MAIN SHALL BE CLASS 50 DUCTILE IRON PIPE OR D.R. ————— - - PROPOSED PROPERTY LINE 18 C900 PVC AS SHOWN ON THE PLANS. WITHIN STATE ROUTE R/W, PIPE **EROSION CONTROL LEGEND** CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE — — — — — — PROPOSED EASEMENT 4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY MATERIAL SHALL BE CLASS 52 DUCTILE IRON. WATER MAIN TRENCH EXCAVATION (ie SHEETING, SHORING, ETC.) TO .º O O O O O O PROPOSED GUARDRAIL SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE AND PROPOSED TREE LINE / CLEARING LIMITS TAPPER BY SD1. PROPOSED WATER MAIN SHALL BE THOROUGHLY CLEANED, FLUSHED, AND STRUCTURES AND THE EXISTING ROADWAY FROM ANY MOVEMENT. (NO ( IP ) INLET PROTECTION (SEE DETAIL) DISINFECTED, AS PER NORTHERN KENTUCKY WATER DISTRICT'S ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. ANY COSTS PROPOSED DISTURBED LIMITS SPECIFICATIONS. ASSOCIATED WITH TRENCH SUPPORT SHALL BE INCLUDED IN THE UNIT SF ) SILT FENCE (SEE DETAIL) BID PRICE FOR THE ASSOCIATED WATER MAIN PRESSURE TESTING SHALL BE DONE AS PER NORTHERN KENTUCKY WATER PROPOSED FLAGPOLE DISTRICT'S SPECIFICATIONS. EXISTING FLAGPOLE TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO PROPOSED MAILBOX EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE B. FOR THRUST BLOCKING REFER TO THE NORTHERN KENTUCKY WATER EXISTING MAILBOX CONTRACTOR'S EXPENSE. DISTRICT'S STANDARD DRAWING NUMBERS 104 AND 104A. PROPOSED SIGN EXISTING SIGN TRENCH EXCAVATION AND OPEN, UNBACKFILLED LENGTH OF WATER 4. THE PROPOSED WATER MAIN SHALL HAVE A HORIZONTAL SEPARATION OF **WATER NOTES** PROPOSED CABLE PEDESTAL MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY AT LEAST 3'-0" (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE) EXISTING CABLE PEDESTAL IN ORDER TO PREVENT MOVEMENT OF, OR DAMAGE TO THE FROM ANY GAS MAIN. PROPOSED ELECTRIC PEDESTAL SURROUNDING GROUND SURFACE, NEARBY 1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES EXISTING ELECTRIC PEDESTAL STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND 5. A 10' MINIMUM LATERAL SEPARATION BETWEEN WATER MAINS AND SEWERS PROPOSED PULL BOX REGULATIONS OF THE NORTHERN KENTUCKY WATER DISTRICT (NKWD). (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL EXISTING PULL BOX TREATMENT SYSTEM) AND SEWER MANHOLES. MEASURED FROM THE PROPOSED GROUND LIGHT TRENCH EXCAVATION SHALL ALSO BE LIMITED TO THE CONTRACTOR'S 2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT OUTSIDE DIAMETER TO OUTSIDE, MUST BE MAINTAINED UNLESS A VARIANCE **EXISTING GROUND LIGHT** ABILITY TO PROVIDE TRENCH BOXES FOR SUPPORT. UNDER NO PRIOR PERMISSION FROM NKWD IS GRANTED FROM THE D.O.W. PROPOSED LIGHT POLE CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED LENGTH OF EXISTING LIGHT POLE SUPPORT AVAILABLE. ALL NEW WATER SERVICES SHALL BE 3/4" (OR MATCH EXISTING, AS PROPOSED ELECTRIC METER INDICATED ON THE PLANS) TYPE K COPPER WITH 5/8" OR 2" WATER METERS EXISTING ELECTRIC METER (UNLESS OTHERWISE NOTED) MATERIAL PROVIDED BY THE NORTHERN PRPOSED ELECTRIC MANHOLE KENTUCKY WATER DISTRICT. ALL RECONNECTED WATER SERVICES SHALL EXISTING ELECTRIC MANHOLE BE 3/4" OR 2" TYPE K COPPER. PROPOSED GAS METER EXISTING GAS METER THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC PROPOSED GAS VALVE RIGHT-OF-WAY WITH KYTC. KENTON COUTY AND/OR ANY LOCAL EXISTING GAS VALVE **GAS NOTES** MUNICIPALITY. TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING HATCH LEGEND PROPOSED GAS BOX CONSTRUCTION. MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE EXISTING GAS BOX "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" REQUIREMENTS. NO PROPOSED UTILITY POLE 1. ALL WORK RELATING TO GAS MAINS OR GAS SERVICE LINES SHALL BE ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK AND SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 1-1/2" ASPHALT PAVEMENT MILL AND EXISTING UTILITY POLE CONSIDERED INCIDENTAL TO THE CONTRACT. PROPOSED GUY WIRE / ANCHOR THE DUKE ENERGY OVERLAY AREA - SEE DETAIL SHEET G-05 EXISTING GUY WIRE / ANCHOR CONNECT SERVICE LINE (3/4" THRU 2"). INCLUDES THE LABOR, EQUIPMENT, PROPOSED SANITARY MANHOLE EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONCRETE EXISTING SANITARY MANHOLE TRENCH RESTORATION - ASPHALT PAVEMENT, CONCRETE CURB, CONCRETE WALK AND YARD RESTORATION PROPOSED SANITARY CLEANOUT PAVEMENT - SEE DETAIL SHEET G-05 <u>FO INSTALL THE SERVICE LINE AT THE LOCATIONS SHOWN ON THE PLANS</u> EXISTING SANITARY CLEANOUT OR AS DIRECTED, IN ACCORDANCE WITH THE SPECIFICATIONS AND PROPOSED STORM MANHOLE STANDARD DRAWINGS, COMPLETE AND READY FOR USE. LEAD SERVICE EXISTING STORM MANHOLE INES ENCOUNTERED BY THE EXCAVATION SHALL BE REPLACED FROM THE TRENCH RESTORATION - CONCRETE PROPOSED SINGLE / DOUBLE CURB INLE PAVEMENT - SEE DETAIL SHEET G-05 MAIN TO AND INCLUDING THE METER VAULT AND METER SETTING. ALL EXISTING SINGLE / DOUBLE CURB INLET <u>SERVICE LINE MATERIAL WILL BE SUPPLIED BY NKWD. PAID EACH (EA).</u> PROPOSED CATCH BASIN EXISTING CATCH BASIN THE CONTRACTOR SHALL COORDINATE WITH THE NORTHERN KENTUCKY TRENCH RESTORATION - 8" AGGREGATE PROPOSED STORM CLEANOUT DCO WATER DISTRICT FOR FIELD INSPECTIONS. PAVEMENT - SEE DETAIL SHEET G-05 EXISTING STORM CLEANOUT PROPOSED TELEPHONE MANHOLE . FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE EXISTING TELEPHONE MANHOLE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY PROPOSED TELEPHONE PEDESTAL CONTROL DENSITY FILL - PAV'T TRENCH UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE EXISTING TELEPHONE PEDESTAL **ELECTRIC NOTES** UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE PROPOSED FIRE HYDRANT NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. EXISTING FIRE HYDRANT PROPOSED WATER METER 1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN CONCRETE DRIVEWAY REPLACEMENT NO CONSTRUCTION SHALL COMMENCE UNTIL ALL KYTC, COUNTY AND/OR EXISTING WATER METER ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE - SEE DETAIL SHEET G-05 LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED. PROPOSED WATER VALVE EXISTING WATER VALVE CONTRACTOR IS RESPONSIBLE FOR DEWATERING TRENCH DURING REMOVE EXISTING BUSH / TREE CONCRETE WALK REPLACEMENT INSTALLATION OF THE WATER MAIN. EXISTING BUSHES / TREES - SEE DETAIL SHEET G-05 3. THE COST OF TESTING THE MAIN, TEMPORARY FLUSHING DEVICES, PROPOSED SLOPE DIRECTION PROJECT NO. TEMPORARY PLUG AND BLOCKS, AND ABANDONING THE EXISTING MAIN EXISTING SURVEY BENCHMARK SHALL BE INCIDENTAL TO THE PROJECT. ASPHALT DRIVEWAY REPLACEMENT 231591 TEST BORING LOCATION - SEE DETAIL SHEET G-05 ALL PAVEMENT SHALL CONFORM TO THE LATEST EDITION OF THE KENTUCKY DISCIPLINE DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND CIVIL BRIDGE CONSTRUCTION AND KENTON COUNTY SUBDIVISION REGULATIONS. GRAVEL DRIVEWAY REPLACEMENT SHEET NAME - SEE DETAIL SHEET G-05 G-01 CHANNEL LINING, CLASS II - SEE DETAIL SHEET G-05 28 H:\2023\231591\DWG\SHEETS\C 231591 00 DETAIL SHEET.DWG - NOTES - 3/17/2025 10:34:07 AM - JAMES CORNELL



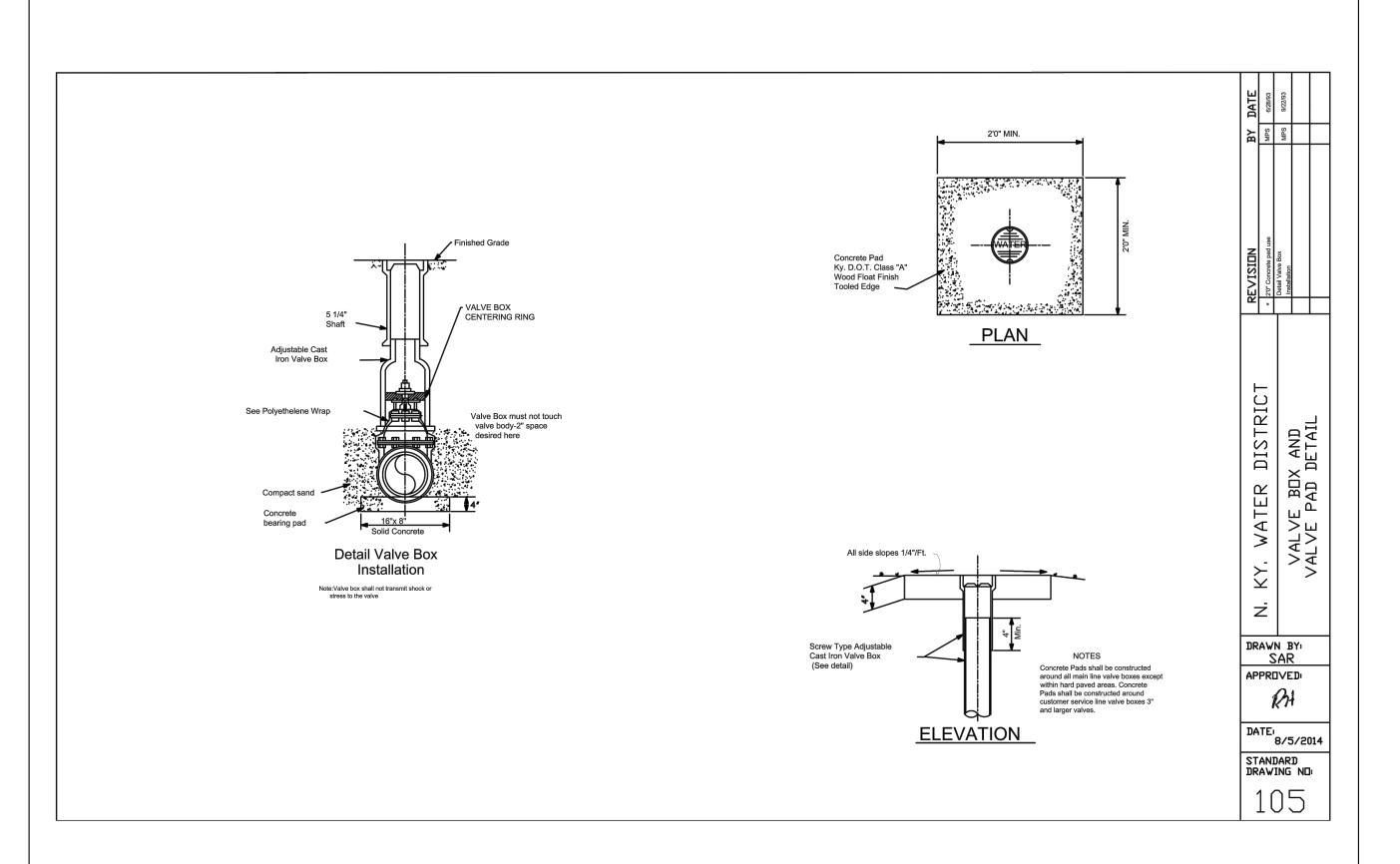


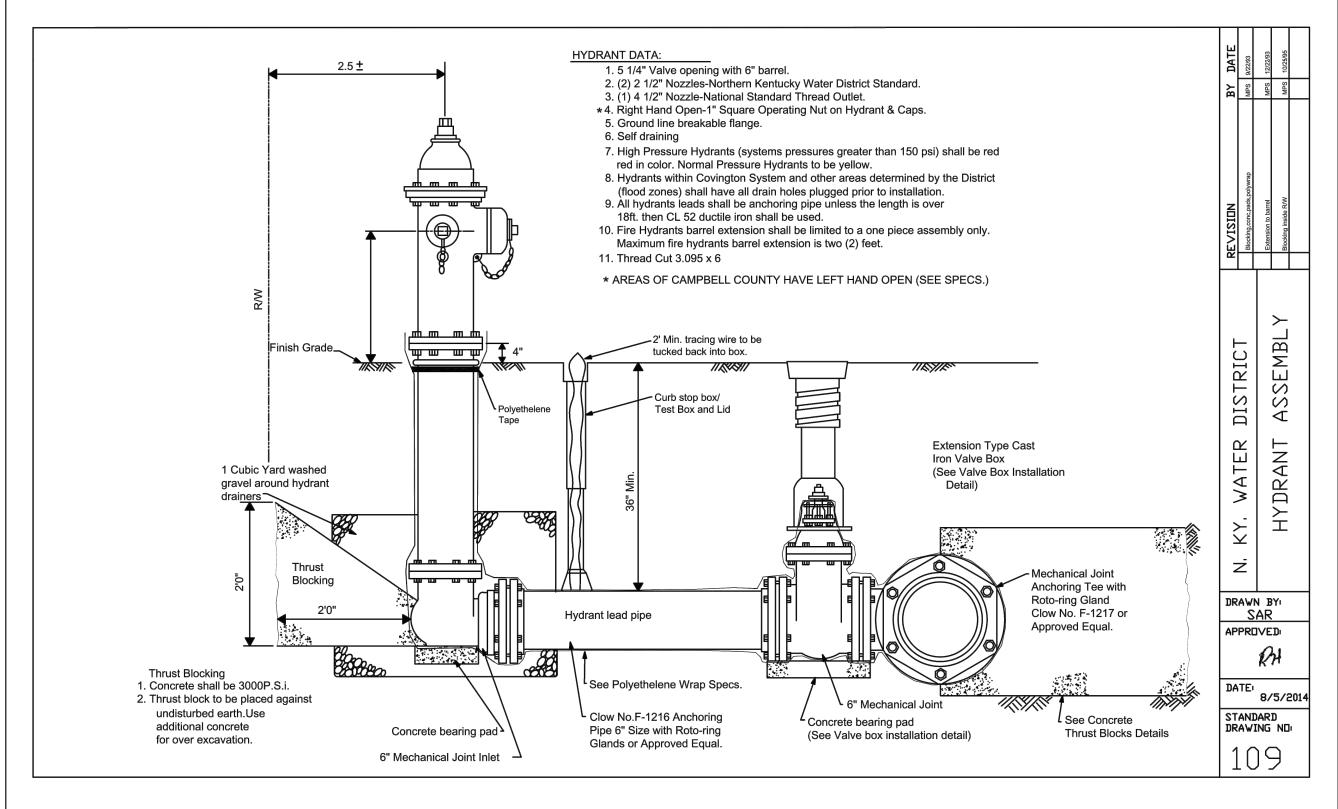


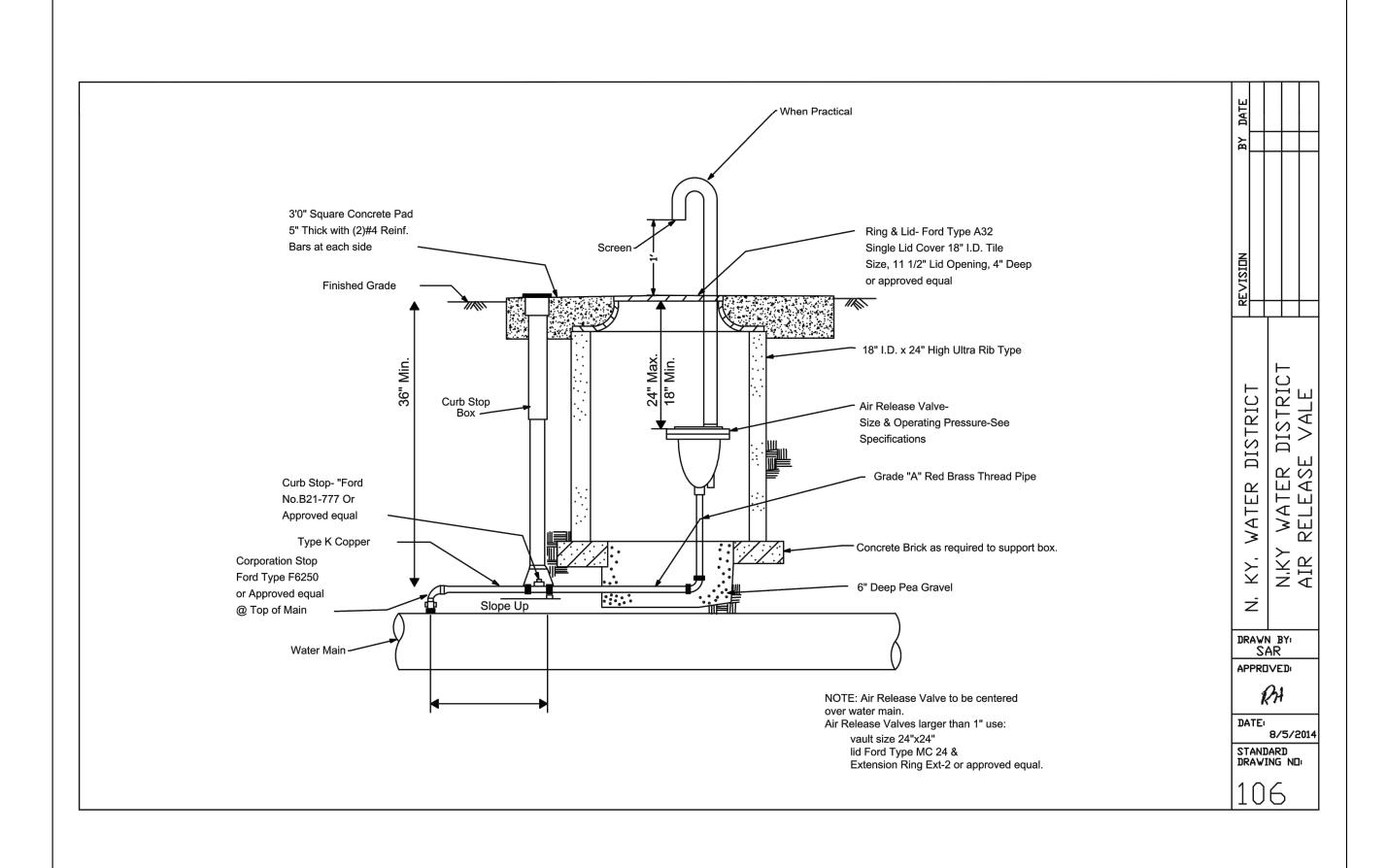
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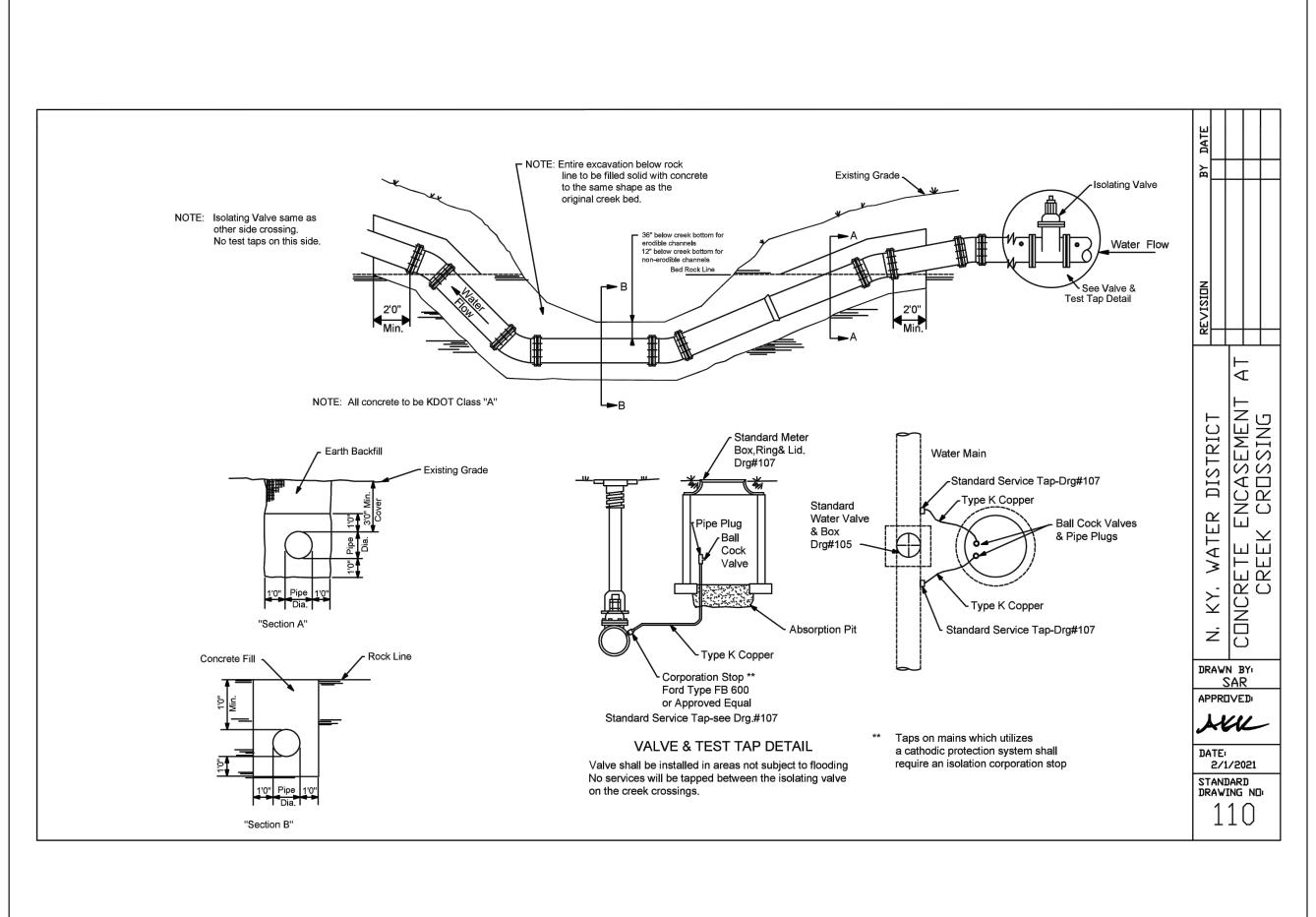
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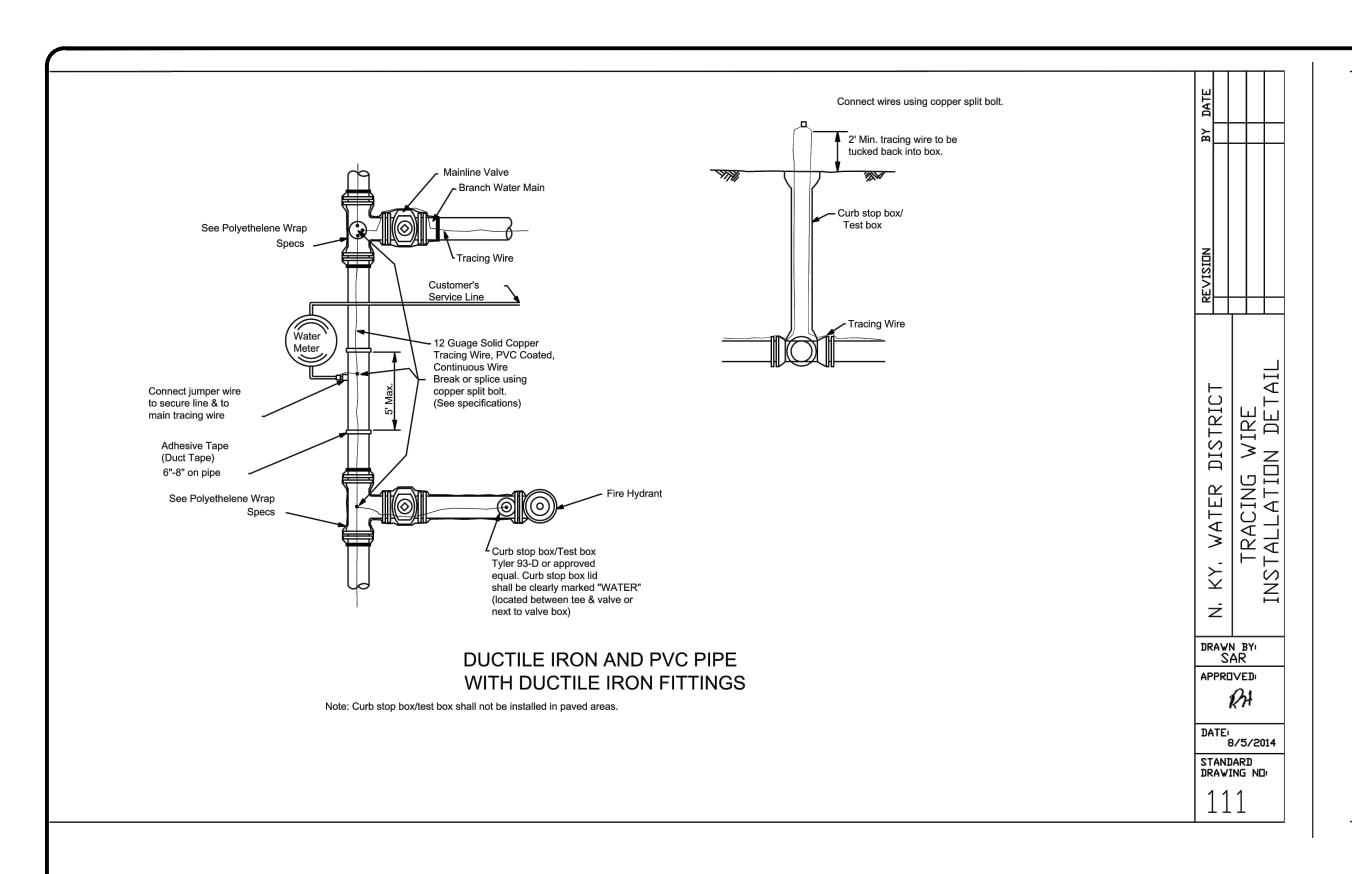
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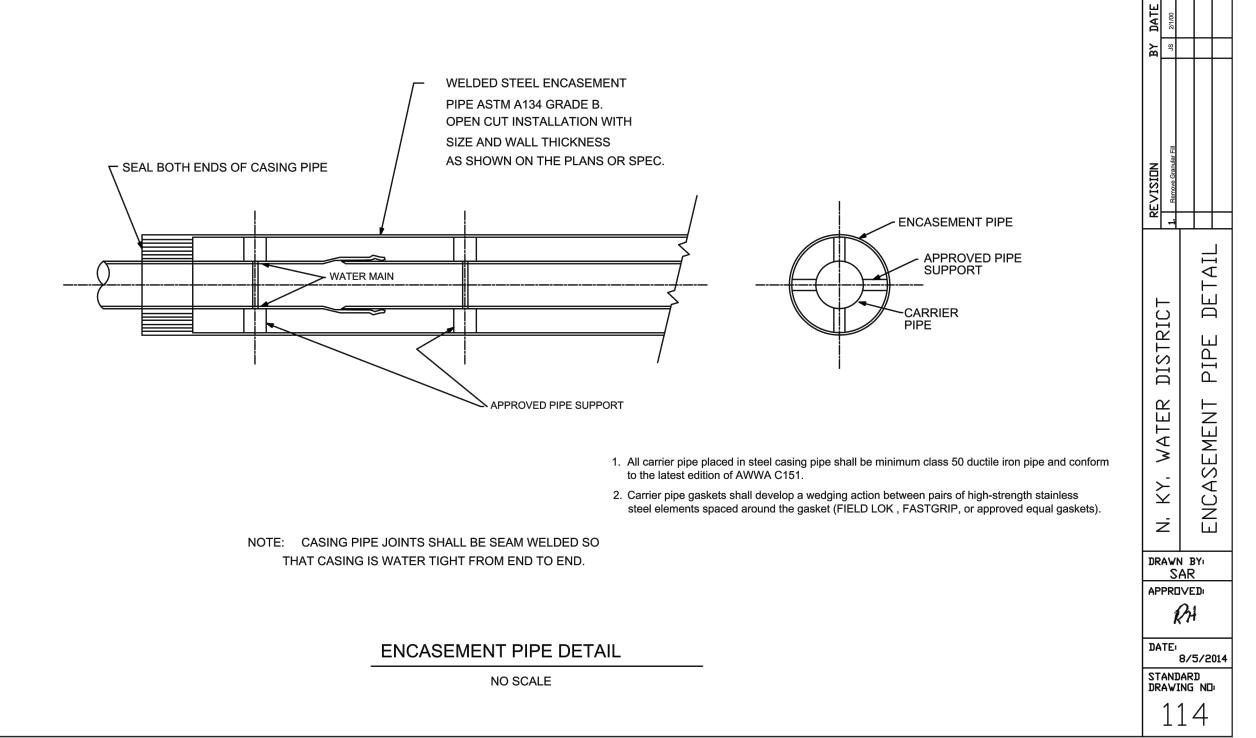


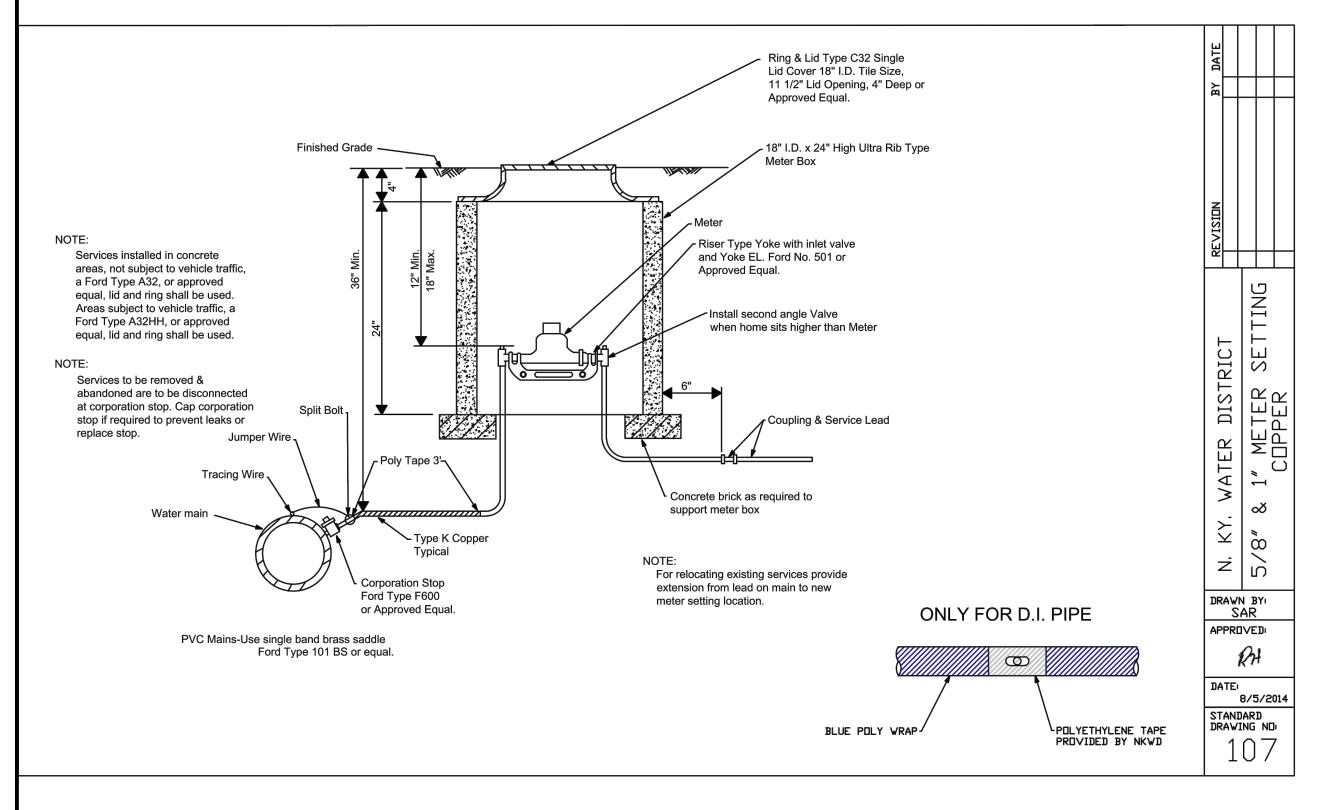
NORTHERN KENTUCKY WATER DISTRICT         ISSUE DATE:         BID         NO         REVISION         DATE           SCALE:         APSILL 2025          APSILL 2025              -KENTON COUNTY -         SCALE:         AS SHOWN                DETAILS         DETAILS   <			フ レ >	NAC C	FORT MITCHE	IEL. ( WWW.VI
NORTHERN KENTUCKY WATER DISTRICT         ISSUED FOR:         BID         NO           SUBDISTRICT 'O'         APRIL 2025          PRIL 2025            -KENTON COUNTY -         AS SHOWN         AS SHOWN          DESIGNED BY:         JCOR         PRAWN BY:         JCHECKED BY:         JSHU         PRAWN BY:         JSHU         PRA	DATE	-				
NORTHERN KENTUCKY WATER DISTRICT SUBDISTRICT 'O' -KENTON COUNTY -  DETAILS  CHECKED BY: JSHU  CHECKED BY: JSHU	REVISION					
NORTHERN KENTUCKY WATER DISTRICT SUBDISTRICT 'O' -KENTON COUNTY -  DETAILS  CHECKED BY: JG  CH	ON					
NORTHERN KENTUCKY WATER DISTRICT SUBDISTRICT 'O' -KENTON COUNTY - DETAILS	BID	APRIL 2025	AS SHOWN	JCOR	JCOR	UHSC
NORTHERN K	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	СНЕСКЕD ВҮ:
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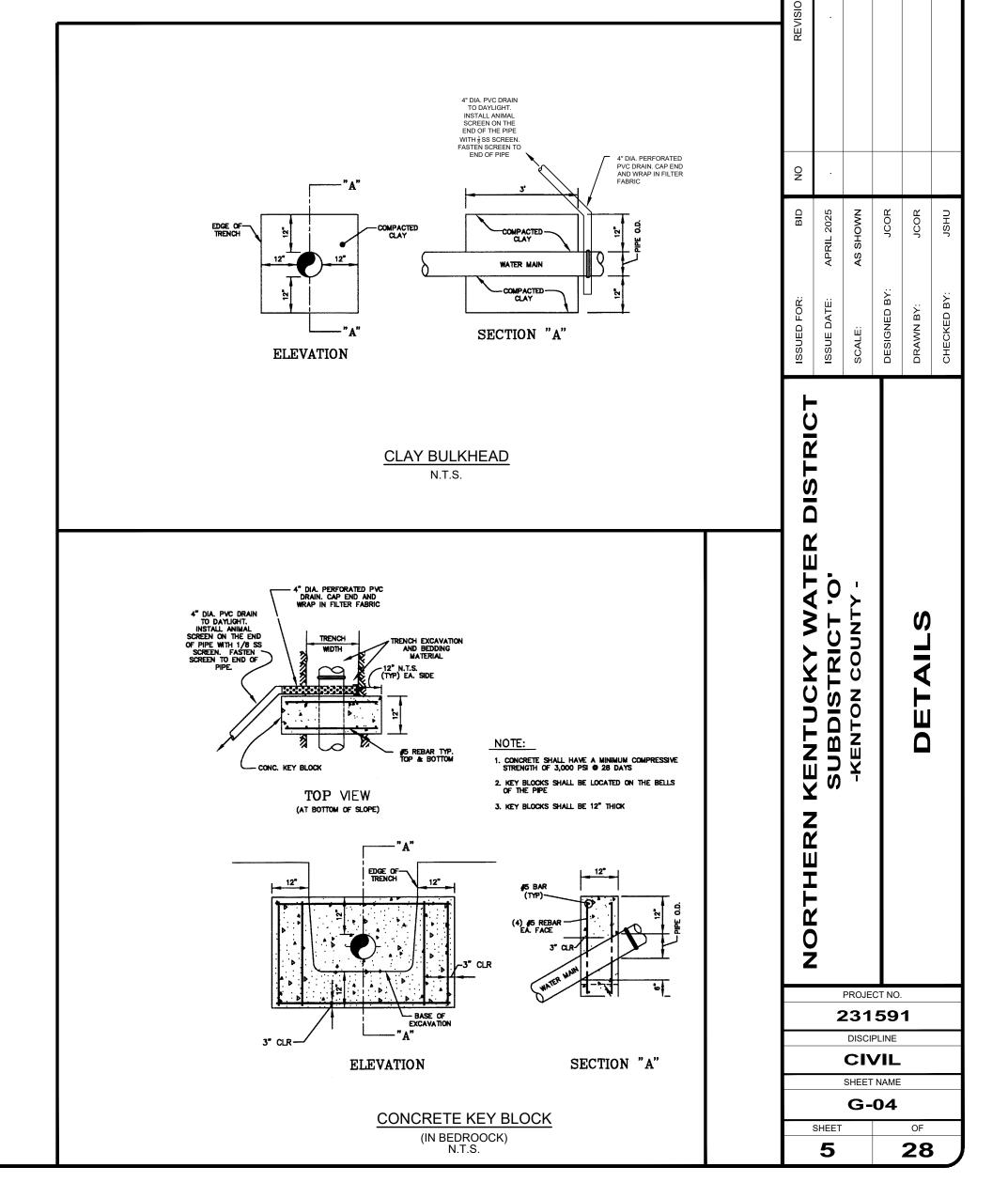
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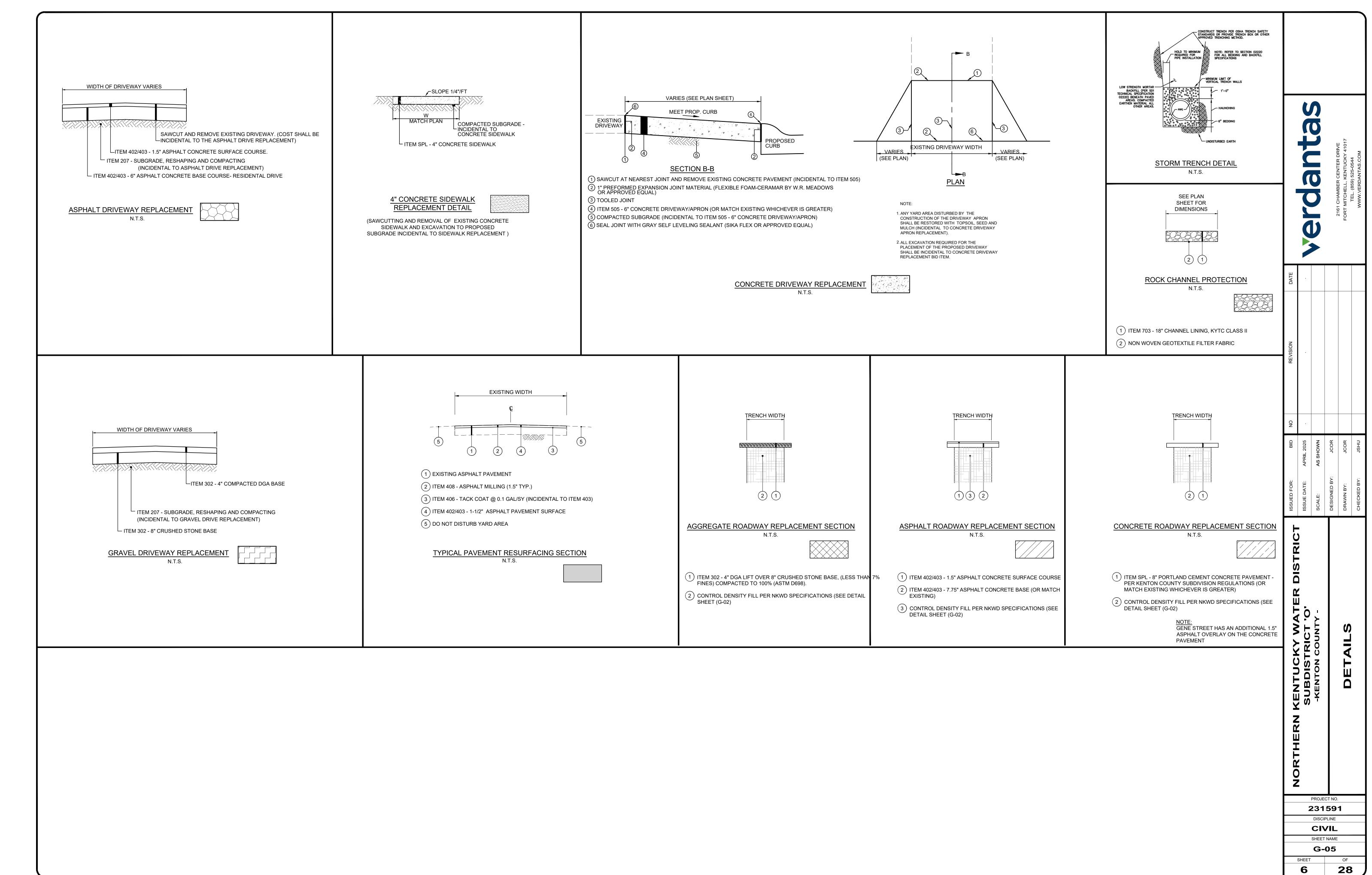
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### SEDIMENT BASINS

A TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A WATERCOURSE OR AT OTHER SUITABLE LOCATION TO RETAIN SEDIMENT AND OTHER WATERBORNE DEBRIS.

THIS STANDARD ESTABLISHES MINIMUM ACCEPTABLE QUALITY FOR THE DESIGN AND CONSTRUCTION OF TEMPORARY SEDIMENT BASINS FORMED BY AN EMBANKMENT, EXCAVATION OR A COMBINATION OF EMBANKMENT AND EXCAVATION. THE STANDARD IS LIMITED TO SITES WHERE:

1. FAILURE OF THE STRUCTURE WOULD NOT RESULT IN LOSS OF LIFE; DAMAGE TO HOMES; COMMERCIAL OR INDUSTRIAL BUILDINGS; DAMAGE TO HIGHWAYS OR RAILROADS OR INTERRUPTION OF USE OR SERVICE OF

- 2. THE HEIGHT OF DAM IS 25 FEET OR LESS, AS MEASURED FROM THE NATURAL STREAMBED AT THE CENTERLINE OF DAM TO THE TOP OF DAM.
- 3. THE TOTAL VOLUME OF STORAGE IS 150 ACRE-FEET OR LESS.
- 4. THE DRAINAGE AREA IS 100 ACRES OR LESS.
- 5. THE BASIN WILL BE REMOVED WITHIN A THREE-YEAR PERIOD AFTER CONSTRUCTION.

TEMPORARY SEDIMENT BASINS ARE USED AS A MEANS OF TRAPPING AND STORING SEDIMENT FROM ERODING AREAS IN ORDER TO PROTECT DOWNSTREAM AREAS FROM DAMAGE RESULTING FROM SEDIMENTATION AND WATERBORNE

### CONDITIONS WHERE PRACTICE APPLIES

TEMPORARY SEDIMENT BASINS APPLY WHERE PHYSICAL SITE CONDITIONS OR OTHER RESTRICTIONS PRECLUDE THE INSTALLATION OF EROSION CONTROL MEASURES TO ADEQUATELY CONTROL EROSION AND SEDIMENTATION. IT MAY BE USED DOWNSLOPE FROM CONSTRUCTION OPERATIONS WHICH EXPOSE AREAS TO EROSION. TEMPORARY SEDIMENT BASINS WILL BE REMOVED AFTER THE EXPOSED AREAS ARE ADEQUATELY PROTECTED AGAINST EROSION BY VEGETATIVE OR MECHANICAL MEANS.

COMPLIANCE WITH LAWS AND REGULATIONS DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

TO IMPROVE THE EFFECTIVENESS OF THE BASIN, IT SHOULD BE LOCATED SO AS TO INTERCEPT THE LARGEST POSSIBLE AMOUNT OF RUNOFF FROM THE DISTURBED AREA. THE BEST LOCATIONS ARE GENERALLY LOW AREAS AND NATURAL DRAINAGEWAYS BELOW DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKES AND DITCHES. THE BASIN MUST NOT BE LOCATED IN A LIVE STREAM BUT SHOULD BE LOCATED TO TRAP SEDIMENT-LADEN RUNOFF BEFORE IT ENTERS THE STREAM. THE BASIN SHOULD NOT BE LOCATED WHERE ITS FAILURE WOULD RESULT IN THE LOSS OF LIFE OR IN INTERRUPTION OF THE USE OR SERVICE OF PUBLIC UTILITIES OR ROADS.

SEDIMENT BASINS MAY BE DESIGNED AS PERMANENT STRUCTURES TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED. SITE CONDITIONS MAY MAKE THE USE OF THESE STRUCTURES DESIRABLE FOR STORMWATER DETENTION PURPOSES. WHEREVER THESE STRUCTURES ARE TO BECOME PERMANENT, OR IF THEY EXCEED THE SIZE LIMITATIONS OF THE DESIGN CRITERIA, THEY MUST BE DESIGNED AS PERMANENT PONDS BY A QUALIFIED PROFESSIONAL ENGINEER. PERMANENT PONDS ARE BEYOND THE SCOPE OF THESE STANDARDS AND SPECIFICATIONS. THE PERMANENT STRUCTURES MUST BE SUBMITTED WITH CONSTRUCTION DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE CITY

MAINTENANCE BASINS SHALL BE CHECKED WEEKLY AND CLEANED WHEN NO LONGER EFFECTIVE.

### STORM DRAIN INLET PROTECTION

A SEDIMENT FILTER INSTALLED AROUND A STORM DRAIN INLET OR CURB INLET TO REDUCE SEDIMENT DISCHARGE.

TO PREVENT SEDIMENT FROM ENTERING THE STORM DISCHARGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA. DIFFERENT TYPES OF STRUCTURES ARE APPLICABLE TO DIFFERENT CONDITIONS.

# STORM WATER POLLUTION PREVENTION NOTES

1. SANITATION DISTRICT NO. 1 IS TO BE CONTACTED 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY AT

- 2. ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED AS SHOWN ON THE PLANS, AND SHALL BE IN COMPLIANCE WITH THE LATEST CONSTRUCTION ACTIVITY " NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" RULES AND REGULATIONS.
- 3. A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A COPY OF THE "NOTICE OF INTENT" (NOI) SHALL BE KEPT ON SITE.
- 4. AN AMENDMENT OF THE SWPPP IS REQUIRED WHENEVER A CHANGE IN DESIGN, CONSTRUCTION, AND OPERATION OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS, OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF THE
- 5. THE CONTRACTOR SHALL ALSO MAINTAIN THE FOLLOWING RECORDS ON SITE:
- A. GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SWPPP CERTIFICATIONS B. THE DATE, TIME, AND EXACT LOCATION OF THE INSPECTION, AND THE NAME OF THE INSPECTOR
- C. AN ASSESSMENT OF THE CONDITION OF THE EROSION CONTROLS
- D. A DESCRIPTION OF ANY EROSION CONTROL IMPLEMENTATION AND MAINTENANCE PERFORMED E. A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION AT THE SITE

### 6. CONSTRUCTION SEQUENCE

- ALL PERIMETER SILT FENCE, INLET PROTECTION AND OTHER EROSION CONTROLS SHALL BE IN PLACE
- BEFORE ANY OTHER EARTH MOVING ACTIVITIES BEGIN. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THE AREAS PLANNED FOR EARTH MOVING.
- REMOVE TOPSOIL, STOCKPILE IT, AND INSTALL SILT FENCE AROUND PERIMETER. SEED SOIL STOCKPILE WITH PERENNIAL RYE GRASS AND MULCH WITH STRAW IF NO TO BE DISTURBED FOR
- MORE THAN 21 DAYS. INSTALL STORM INLET AND CULVERT PROTECTION IMPACTED BY WATER MAIN CONSTRUCTION.
- ESTABLISH A TEMPORARY SEEDING ON ALL BARE AREAS THAT ARE TO REMAIN UNDISTURBED FOR MORE THAN 21 DAYS. SEED WITH PERENNIAL RYE GRASS MULCH WITH STRAW.
- IMMEDIATE AFTER TOPSOIL HAS BEEN PLACED, STABILIZE THE SAME SURFACE AREA WITH FINAL SEED AND
- MULCH 7 DAYS AFTER REACHING FINAL GRADE. AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVE TEMPORARY EROSION OR SEDIMENT
- CONTROL PRACTICES.
- 7. EROSION CONTROLS MUST BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF 0.5" OR GREATER RAINFALL. REMOVE ACCUMULATED SEDIMENT FROM EROSION CONTROLS.
- 8. TEMPORARY SEEDING SHALL BE PERENNIAL RYE GRASS (40 LB / ACRED) AND MULCH AT 3 BALES OF STRAW PER
- 9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING BORROW MATERIAL ONSITE AND / OR DISPOSING OF EXCESS MATERIAL OFF SITE AS REQUIRED TO MEET INDICATED DESIGN ELEVATIONS.
- 10. DEBRIS SHALL BE COLLECTED WITHIN PROPERTY LIMITS WEEKLY OR AS NEEDED FOR PUBLIC SAFETY. SURROUNDING STREETS AFFECTED BY THE CONSTRUCTION SHALL BE CLEANED DAILY OR AS NEEDED FOR PUBLIC SAFETY. SEE CONSTRUCTION ENTRANCE DETAIL IN SWPPP DETAILS SHEET.
- 11. THE CONSTRUCTION OF BMPs SHALL BE REVISED OR ADDED IF DEEMED NECESSARY PER SECTION 1000 OF THE SANITATION DISTRICT 1 REGULATIONS.
- 12. CONTACT SANITATION DISTRICT NO. 1 72 HOURS PRIOR TO INSTALLATION OF THE WATER QUALITY FEATURE.

- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE SITE SHALL BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND
- 3) TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.
- 4) THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED. 6) SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE
- REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND.
- SEEDING SHOULD NOT BE APPLIED FROM OCTOBER 1 TO NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. USE THE FOLLOWING METHODS FOR DORMANT SEEDING:
- FROM OCTOBER 1 TO NOVEMBER 20, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, MULCH AND ANCHOR.
- FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.
- 8) APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING. 9) PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED. AVOID EXCESSIVE IRRIGATION AND MONITOR TO PREVENT EROSION AND DAMAGE FROM RUNOFF.
- 10) PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
- 11) A MINIMUM OF 70% GROWTH DENSITY, BASED ON A VISUAL INSPECTION, MUST EXIST FOR AN ADEQUATE PERMANENT VEGETATIVE PLANTING.

PERMANENT SEEDING	G FERTILIZATIO	N AND	MOWING CHART	
MIXTURE	FORMULA	LB/ AC.	TIME	MOW
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL, YEARLY, OR AS NEEDED	<u>&gt;</u> 3"
TALL FESCUE	10-10-10	500		
TURF-TYPE FESCUE	10-10-10	500		<u>&gt;</u> 4"
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND	DO NOT
FLAT PEA FESCUE	0-20-20	400	YEARLY AFTER ESTABLISHED	MOW

PERMANENT S	SEEDING SPECI	ES SELECTION
SEED MIX	SEED RATE LB/AC.	NOTES:
	GENERAL USE	
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH <2.0 FT./SEC. VELOCITY
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEEP E	BANKS OR CUT	SLOPES
TALL FESCUE	40 - 50	
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST
ROAD I	DITCHES AND S	WALES
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE KENTUCKY BLUEGRASS	90 5	
	LAWN	
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100 - 120 100 - 120	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100 - 120 100 - 120	FOR SHADED AREAS
PERMANENT SEEDI	NG DETAIL	

SCALE: NONE

# SURFACE (30' MIN. FOR ACCESS TO INDIVIDUAL HOUSE LOT WATER BAR DIVERSION AS NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING ONTO PAVEMENT ANY PAVED SURFACE 12" MIN -CULVERT 18" OR SUFFICIENT AS NEEDED TO DIVERT RUNOFF └─ NO. #2 RECYCLED CONCRETE AGGREGATE GEOTEXTILE <u>PROFILE</u> 1. PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING

ST	ONE MEETING THE MIN. SPECIF	FICATIONS:
A.	TENSILE STRENGTH	= 200 LBS.
B.	PUNCTURE STRENGTH	= 80 PSI
C.	TEAR STRENGTH	= 50 LBS.
D.	BURST STRENGTH	= 320 PSI
E.	ELONGATION	= 20%
F.	EQUIVALENT OPENING SIZE	<u>≤</u> 0.6 MM
G.	PERMITTIVITY	= 0.001 CM/SEC

- = 0.001 CM/SEC APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.
- IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
- . CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY



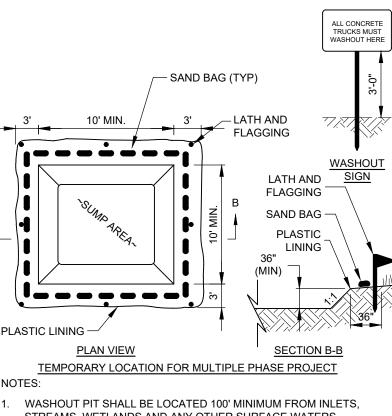
- 1) THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
- 2) SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO

4)	APPLY MULCHING IMMEDIATELY AFTER SEEDING.
5)	SEEDING SHALL BE INSPECTED FOR BARE SPOTS A
	WASHOUTS, AND RESEEDED AS NECESSARY.

TE	MPORARY SEEDING SPEC	IES SELECTION	
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 TO AUGUST 15	OATS TALL FESCUE PERENNIAL RYEGRASS	3 1 1	128 40 40
	PERENNIAL RYEGRASS TALL FESCUE	2 1	40 40
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE PERENNIAL RYEGRASS	3 1 1	112 40 40
	WHEAT TALL FESCUE PERENNIAL RYEGRASS	3 1 1	120 40 40
	PERENNIAL RYEGRASS TALL FESCUE	2 1	40 40
NOVEMBER 1 TC	ONLY MULCH OR DORMA	NT SEEDING.	

TEMPORARY SEEDING DETAIL

SCALE: NONE



(2 PER BALE)

PLAN VIEW

SINGLE LOCATION FOR ENTIRE PROJECT

-2X4 STAKES

STRAW BALE -

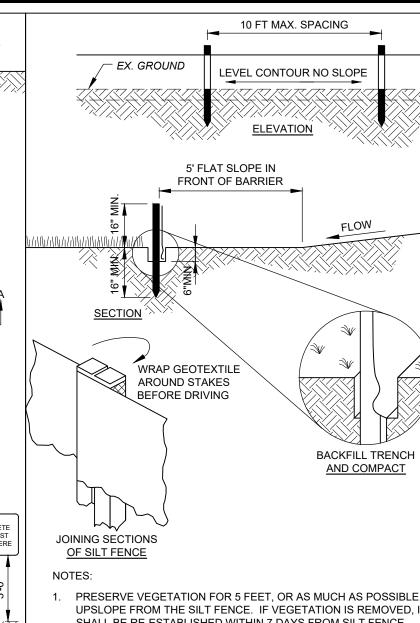
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- STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.
- ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, SHALL BE DISPOSED OF IN THE CONCRETE WASHOUT AREA. DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASHOUT ON THE GROUND, OR IN STORM DRAINS, DITCHES OR WATER BODIES, IS PROHIBITED.
- CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. FOR LARGER SITES, MULTIPLE CONCRETE WASHOUT AREAS MAY BE REQUIRED.
- IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO THE CONSTRUCTION ENTRANCE. PLASTIC LINING SHALL BE DOUBLE-LINED. CONTINUOUS 10-ML
- DEFECTS, AND INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF ROCKS OR DEBRIS. CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND

POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER

- LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- CONCRETE WASHOUT AREAS SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOWS.
- PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE, BUT MUST BE SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE.
- CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND TO DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR POLYETHYLENE SHEETING SHALL BE REPAIRED IMMEDIATELY. THE CONCRETE WASHOUT AREA SHALL BE CLEANED OR REPLACED WHEN IT IS 75% FULL. THE POLYETHYLENE SHEETING SHALL BE REPLACED AFTER EACH CLEANING.
- SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.



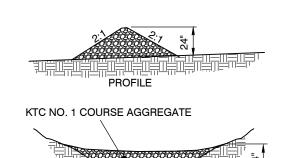


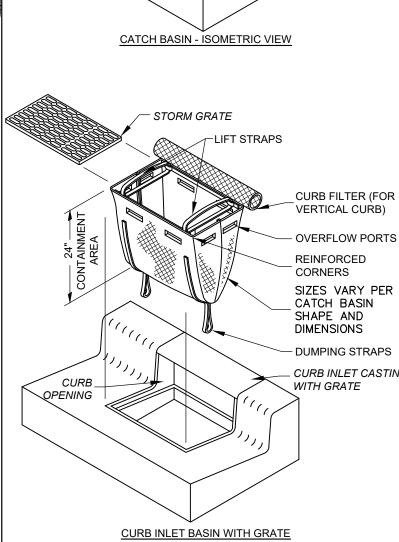
- PRESERVE VEGETATION FOR 5 FEET, OR AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:
- CHANGE THE LAYOUT OF THE SILT FENCE. REMOVE ACCUMULATED SEDIMENT. INSTALL OTHER PRACTICES.

THO THE	1111011010	
FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215

90% MIN

**RADIATION STABILITY** SILT FENCE





~STORM GRATE

REINFORCED

OVERFLOW PORTS

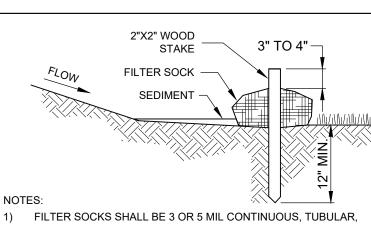
DUMPING STRAPS

STORM CATCH

CORNERS

STORM DRAIN INLET PROTECTION DETAIL

SCALE: NONE



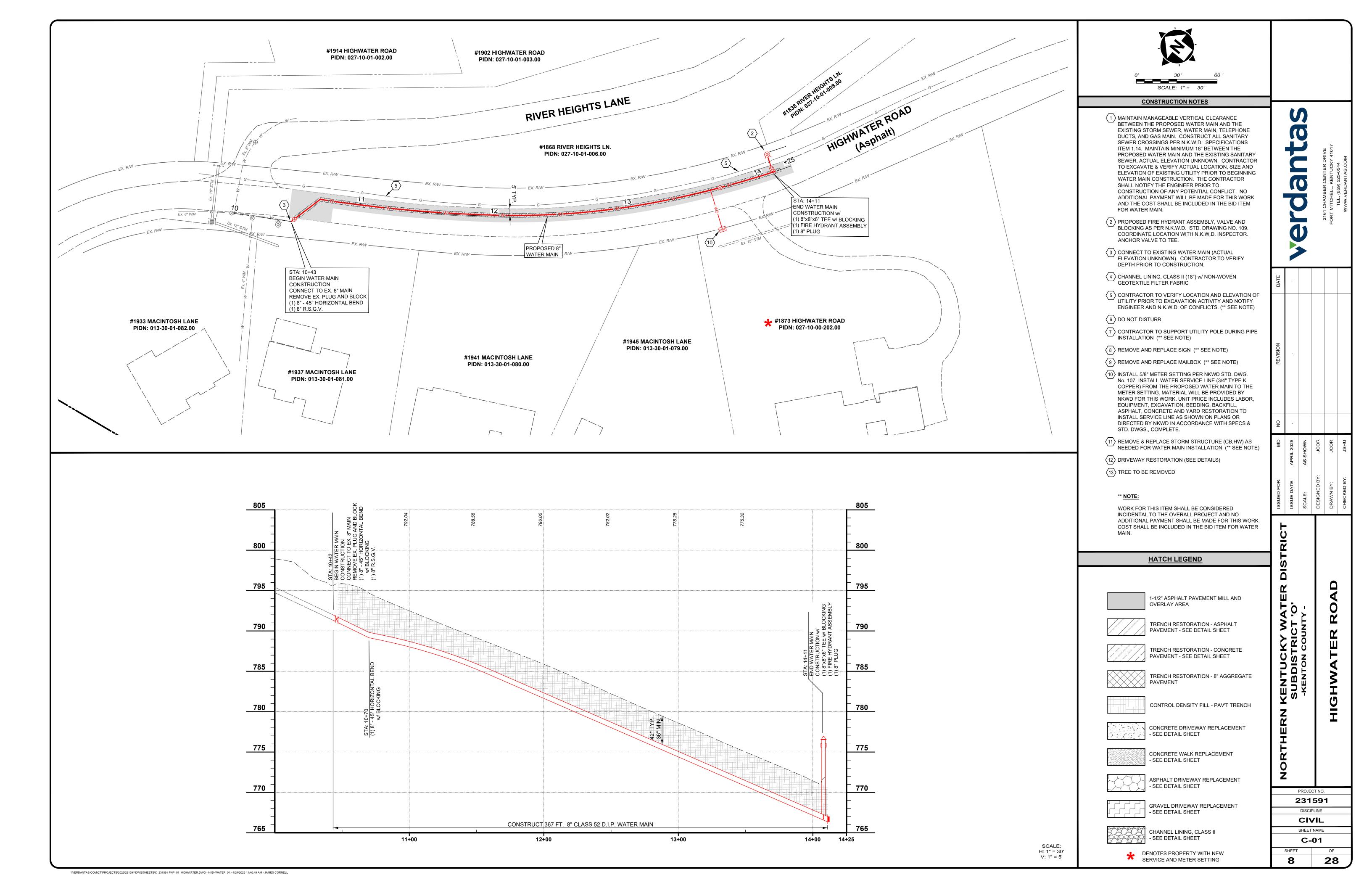
- HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH 2) COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE
- OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2" 3) FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS
- SLOPES PARALLEL TO THE BASE OF THE SLOPE. 4) FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF
- SLOPE FOR SEDIMENT DEPOSIT. 5) BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT. 6) WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE
- DISPERSED ON-SITE. 7) THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE:

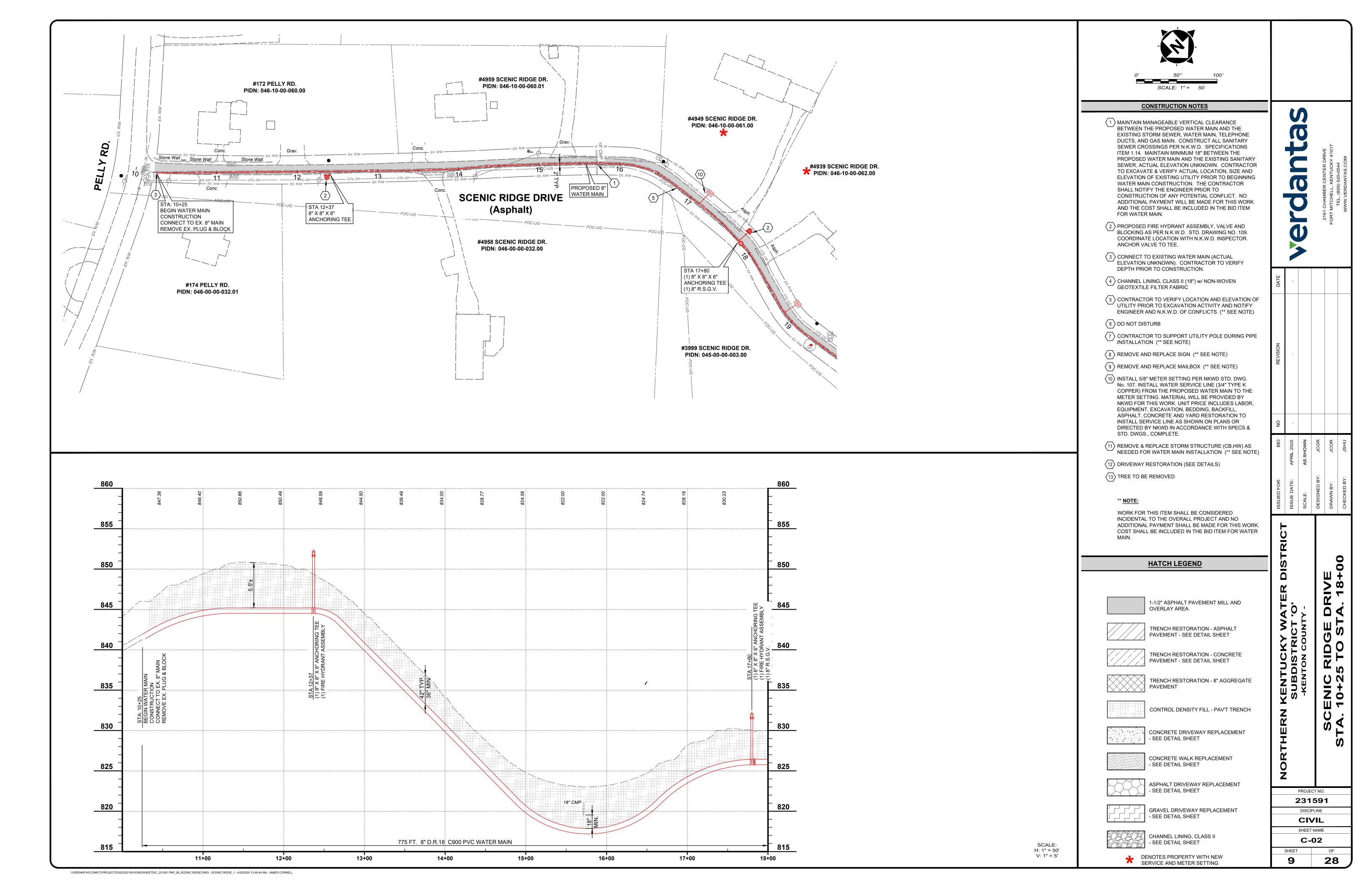
_						
	MAX. S	SLOPE LENGTH AB	OVE FIL	TER SC	CK	
	SLOPE	RATIO (H:V)	8"	12"	18"	24"
	0% - 2%	0 - 50:1	125'	250'	300'	350'
	2% - 10%	50:1 - 10:1	100'	125'	200'	250'
	10% - 20%	10:1 - 5:1	75'	100'	150'	200'
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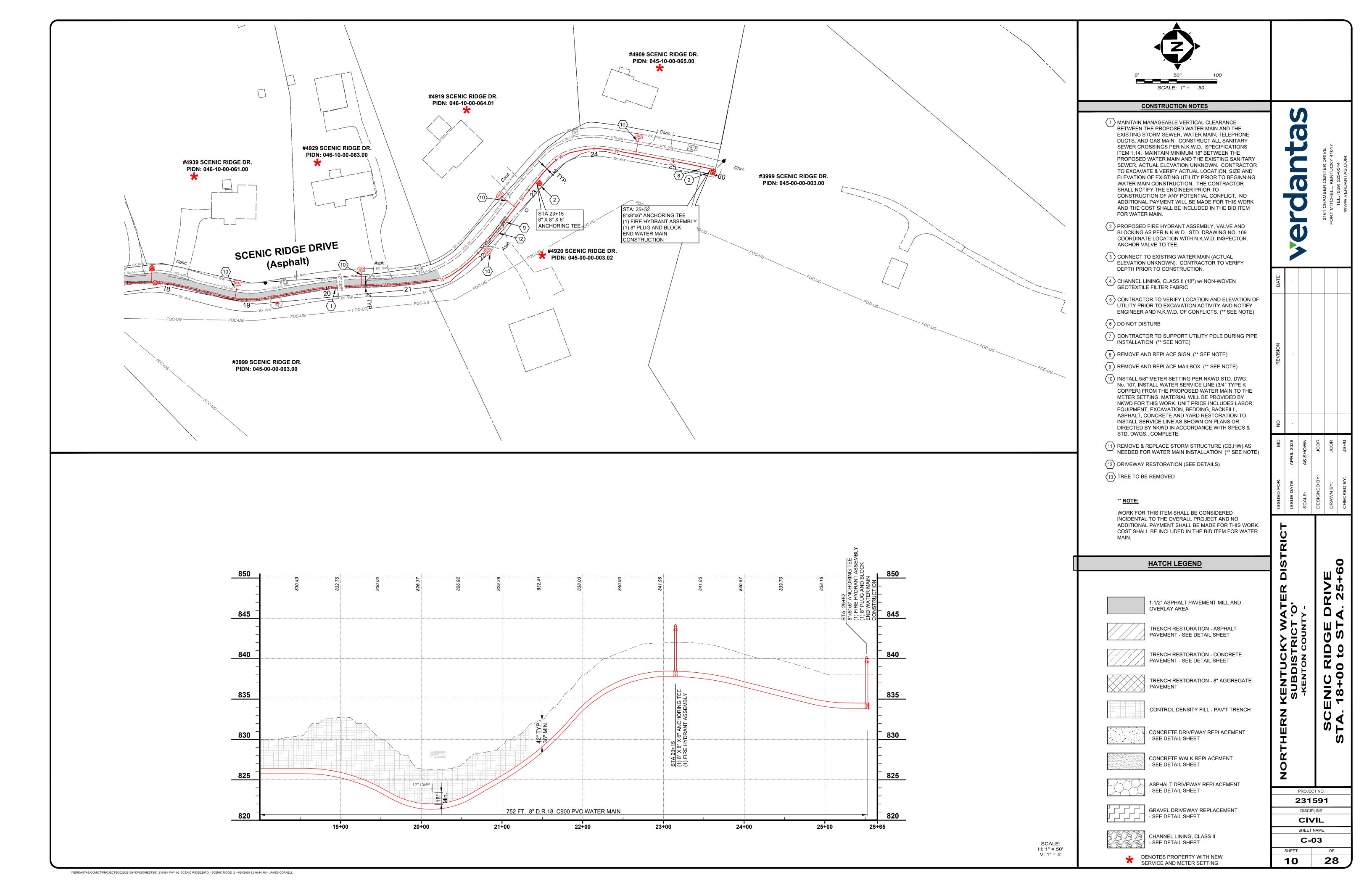
FILTER SOCK DETAIL SCALE: NONE

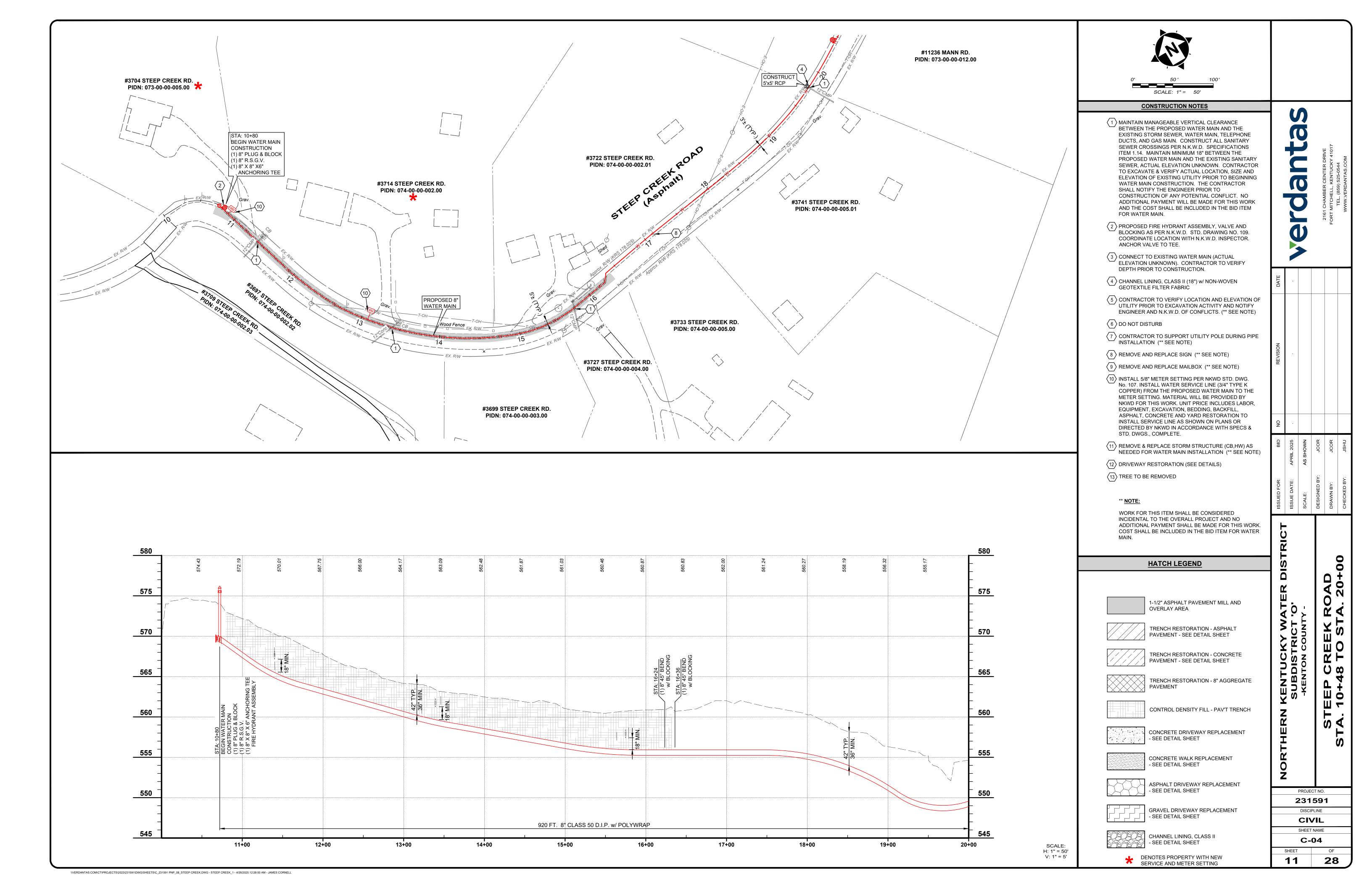
CURB OPENING-WITHOUT GRATE - MANHOLE OVERFLOW-DETAIL OF CURB INLET SEDIMENT CONTROL DEVICE WITH CURB FILTER

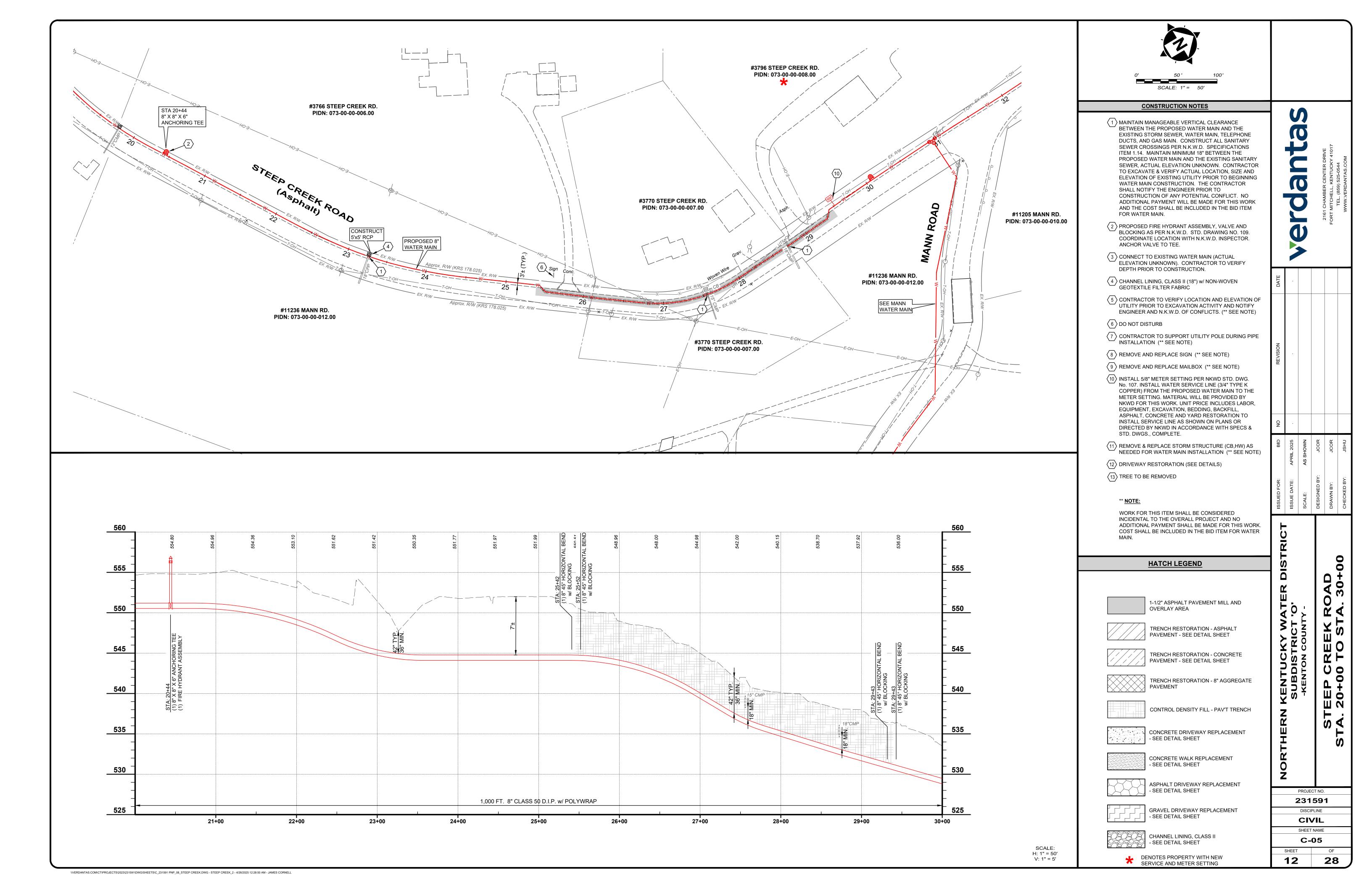
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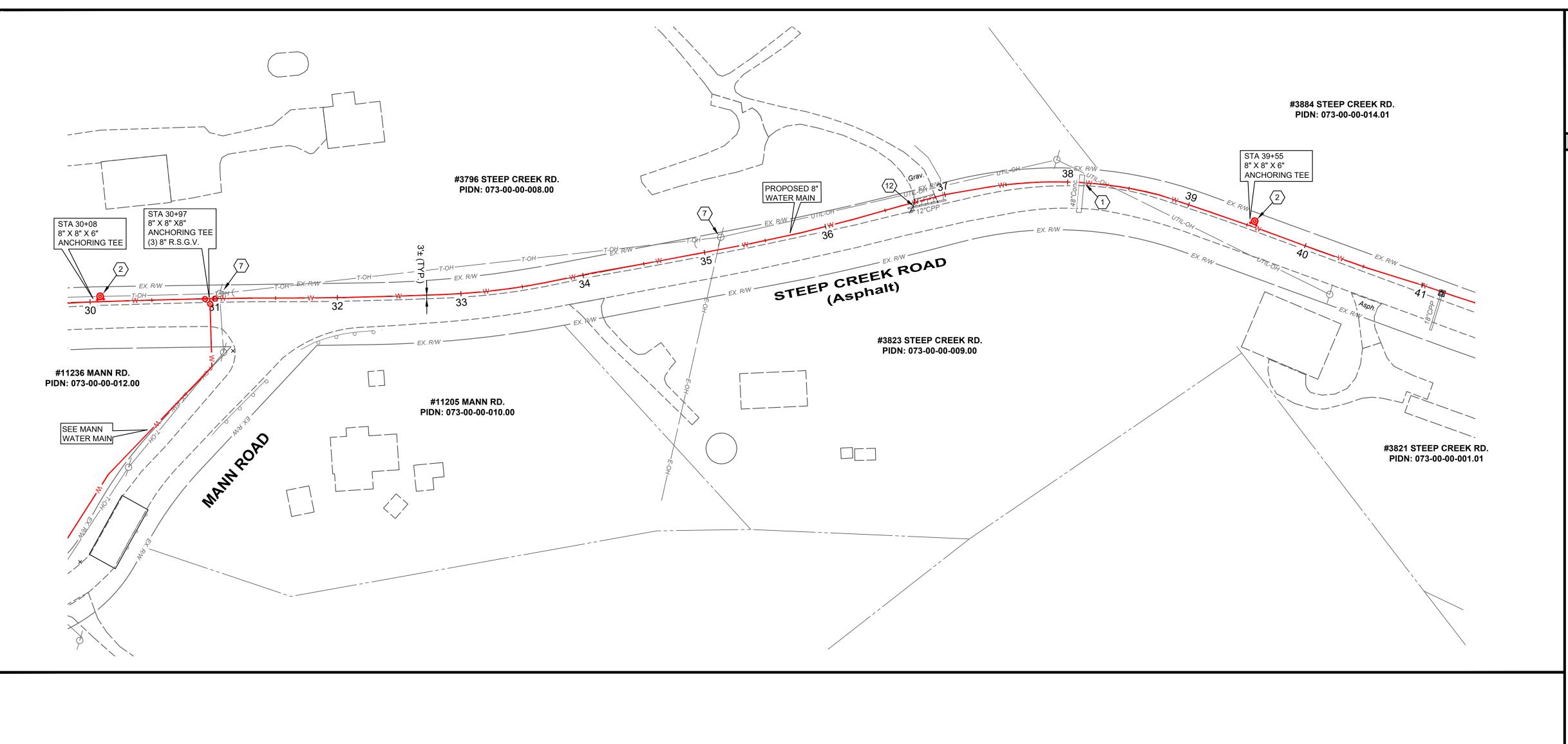














SCALE: 1" = 50'

# **CONSTRUCTION NOTES**

- 1 MAINTAIN MANAGEABLE VERTICAL CLEARANCE BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING STORM SEWER, WATER MAIN, TELEPHONE DUCTS, AND GAS MAIN. CONSTRUCT ALL SANITARY SEWER CROSSINGS PER N.K.W.D. SPECIFICATIONS ITEM 1.14. MAINTAIN MINIMUM 18" BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING SANITARY SEWER, ACTUAL ELEVATION UNKNOWN. CONTRACTOR TO EXCAVATE & VERIFY ACTUAL LOCATION, SIZE AND ELEVATION OF EXISTING UTILITY PRIOR TO BEGINNING WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY POTENTIAL CONFLICT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK AND THE COST SHALL BE INCLUDED IN THE BID ITEM FOR WATER MAIN.
- 2 PROPOSED FIRE HYDRANT ASSEMBLY, VALVE AND BLOCKING AS PER N.K.W.D. STD. DRAWING NO. 109. COORDINATE LOCATION WITH N.K.W.D. INSPECTOR. ANCHOR VALVE TO TEE.
- (3) CONNECT TO EXISTING WATER MAIN (ACTUAL ELEVATION UNKNOWN). CONTRACTOR TO VERIFY DEPTH PRIOR TO CONSTRUCTION.
- 4 CHANNEL LINING, CLASS II (18") w/ NON-WOVEN GEOTEXTILE FILTER FABRIC
- 5 CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITY PRIOR TO EXCAVATION ACTIVITY AND NOTIFY ENGINEER AND N.K.W.D. OF CONFLICTS. (\*\* SEE NOTE)
- $\langle 6 \rangle$  DO NOT DISTURB
- 7 CONTRACTOR TO SUPPORT UTILITY POLE DURING PIPE INSTALLATION (\*\* SEE NOTE)
- 8 REMOVE AND REPLACE SIGN (\*\* SEE NOTE)
- 9 REMOVE AND REPLACE MAILBOX (\*\* SEE NOTE)
- (10) INSTALL 5/8" METER SETTING PER NKWD STD. DWG. No. 107. INSTALL WATER SERVICE LINE (3/4" TYPE K COPPER) FROM THE PROPOSED WATER MAIN TO THE METER SETTING. MATERIAL WILL BE PROVIDED BY NKWD FOR THIS WORK. UNIT PRICE INCLUDES LABOR, EQUIPMENT, EXCAVATION, BEDDING, BACKFILL, ASPHALT, CONCRETE AND YARD RESTORATION TO INSTALL SERVICE LINE AS SHOWN ON PLANS OR DIRECTED BY NKWD IN ACCORDANCE WITH SPECS & STD. DWGS., COMPLETE.
- REMOVE & REPLACE STORM STRUCTURE (CB,HW) AS NEEDED FOR WATER MAIN INSTALLATION (\*\* SEE NOTE)
- (12) DRIVEWAY RESTORATION (SEE DETAILS)
- 13 TREE TO BE REMOVED

WORK FOR THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK. COST SHALL BE INCLUDED IN THE BID ITEM FOR WATER 00

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PROJECT NO. 231591

DISCIPLINE

CIVIL SHEET NAME

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# **HATCH LEGEND**

1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA

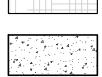
TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET



TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET



CONTROL DENSITY FILL - PAV'T TRENCH



CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET

CONCRETE WALK REPLACEMENT



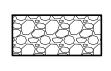
ASPHALT DRIVEWAY REPLACEMENT

- SEE DETAIL SHEET

- SEE DETAIL SHEET



GRAVEL DRIVEWAY REPLACEMENT



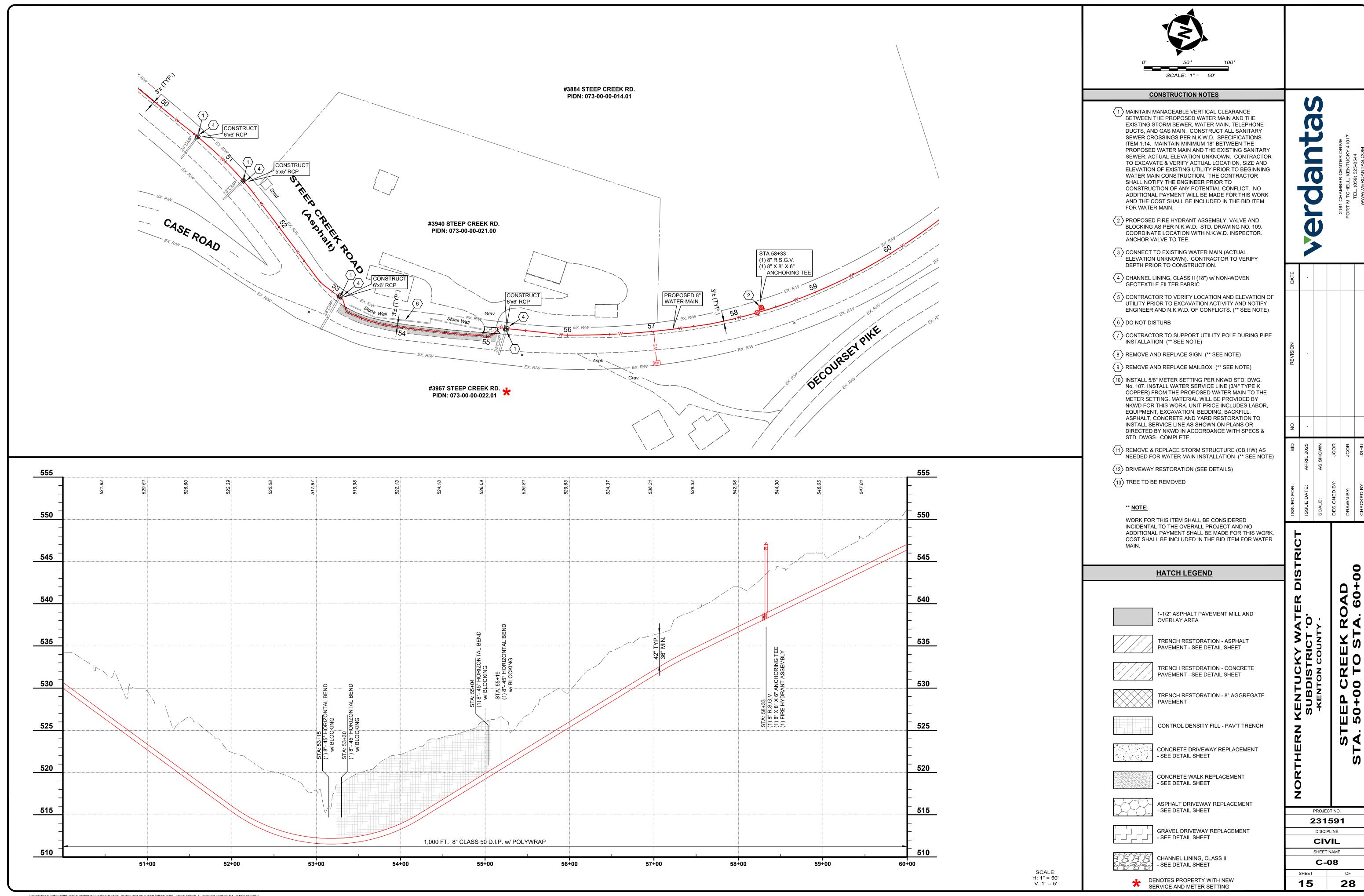
SCALE: H: 1" = 50' V: 1" = 5'

CHANNEL LINING, CLASS II - SEE DETAIL SHEET

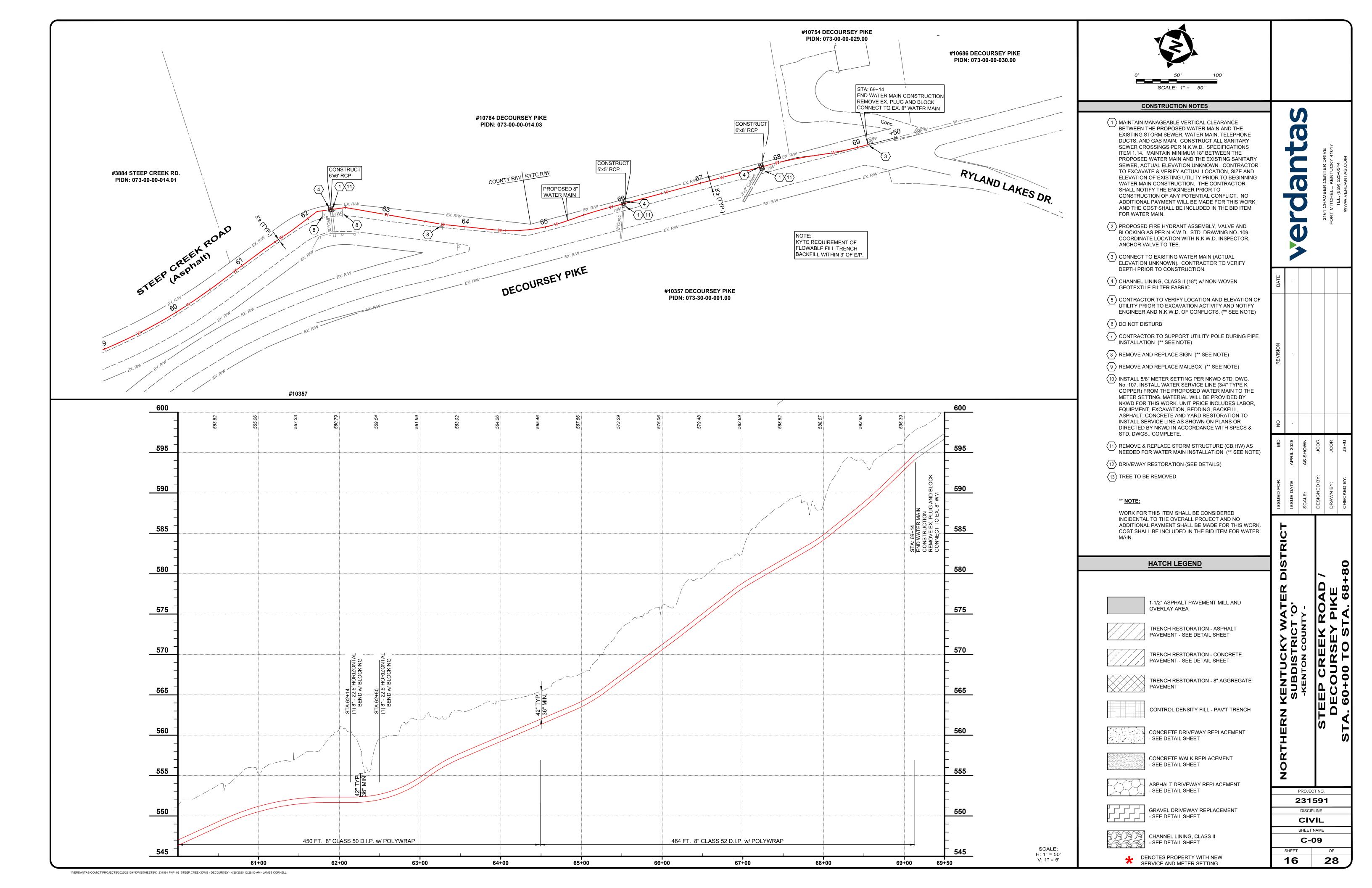
SERVICE AND METER SETTING

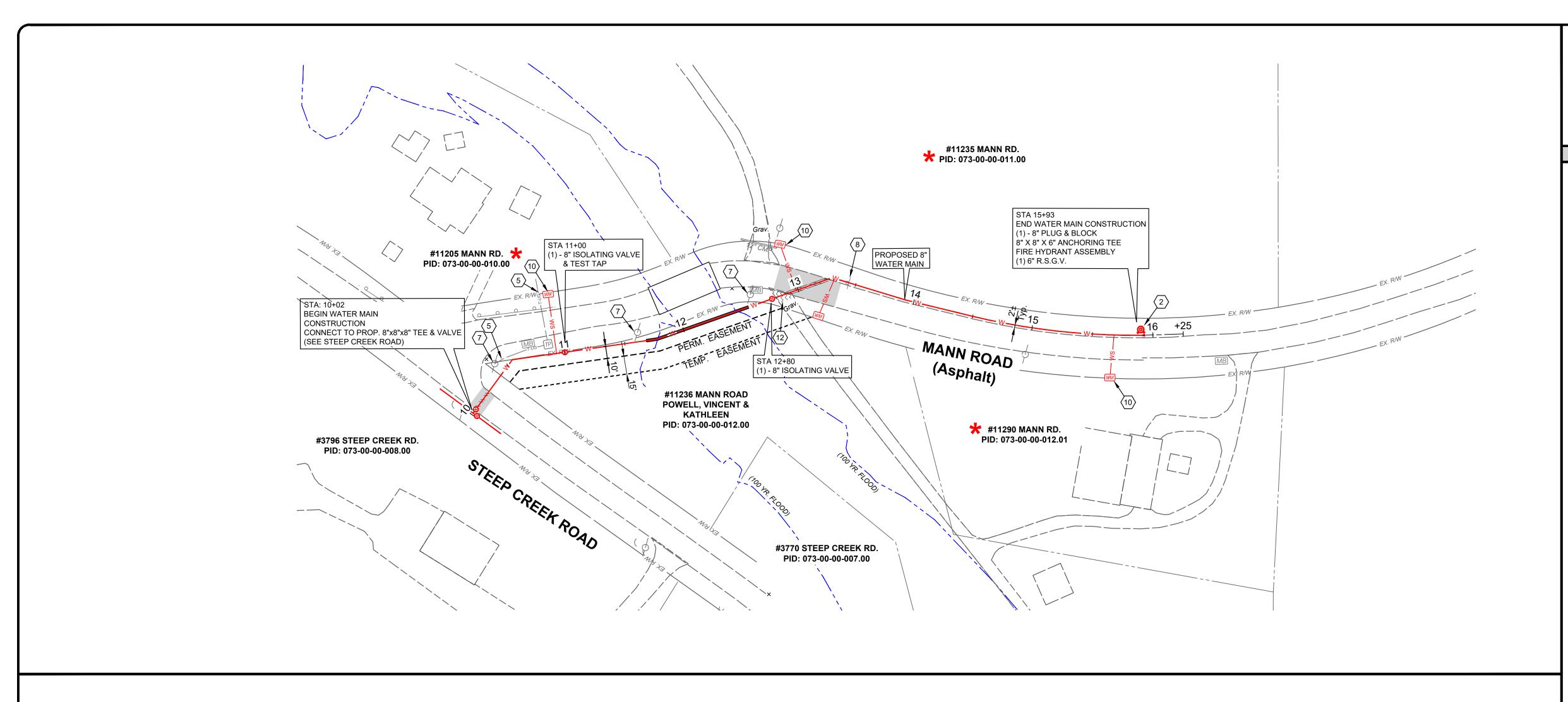
- SEE DETAIL SHEET DENOTES PROPERTY WITH NEW

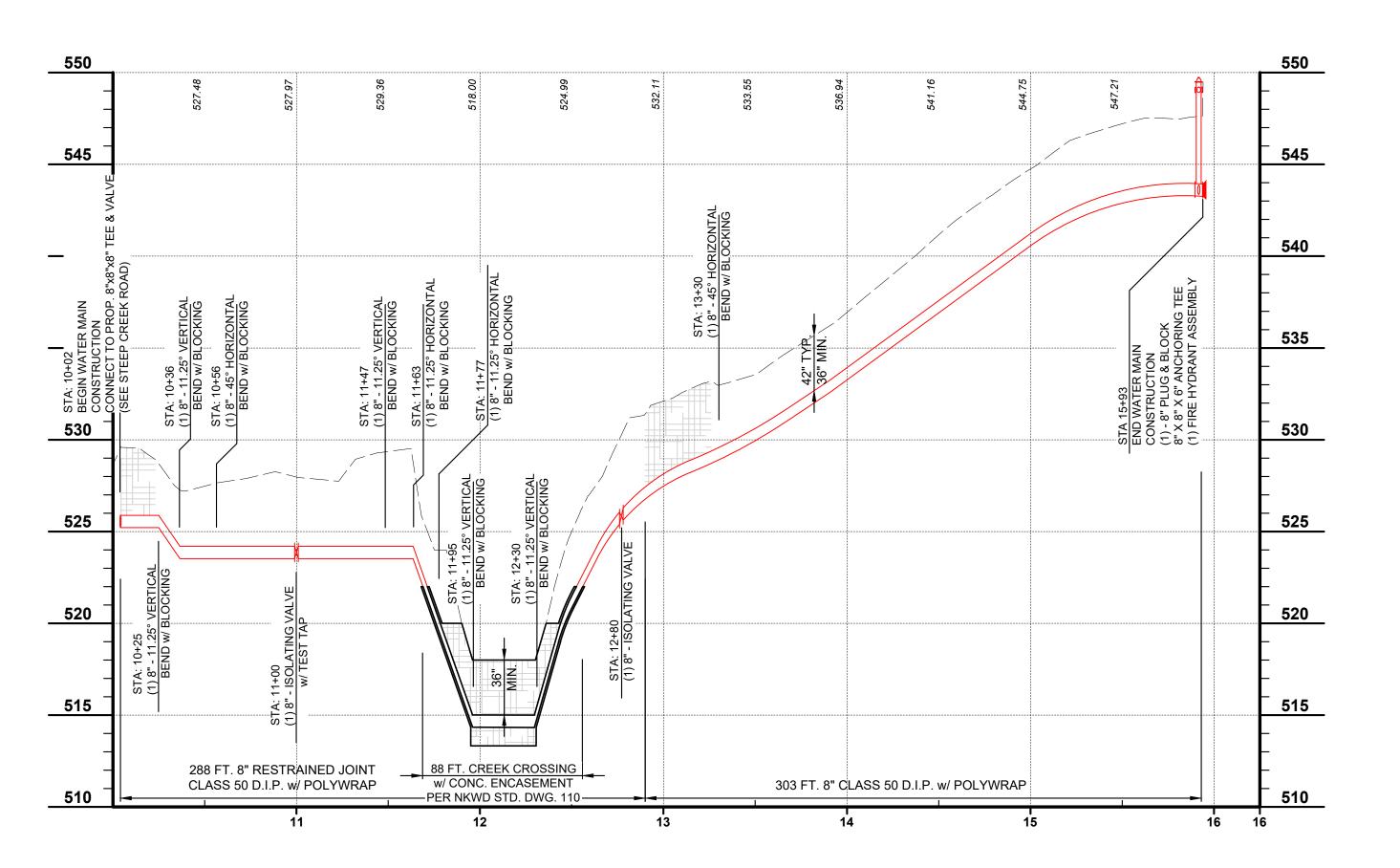
91.97	ORING TEE	526.80	525.77	525.47	524.86	524.70	524.86	525.39	525.91	526.00	527.72	528.40	530.79	531.64	530.60	530.66 STA: 39+55 (1) 8" X 8" X 6" AN (1) FIRE HYDRAN
5 -	9+97 8" X 8" ANCHG S.G.V. ANN RD. WM)															(1) S (1)
0	STA: 36 (1) 8" X (3) 8" R (SEE M															- ~ _
5 TEE									<u>a</u> 7				6.5'±		6.5'±	
ANCHORING									42" TY 36" MII						<b>—</b>	0
8" × 8" × 6" × 6"									·							



\\VERDANTAS.COM\CT\PROJECTS\2023\231591\DWG\SHEETS\C\_231591 PNP\_08\_STEEP CREEK.DWG - STEEP CREEK\_5 - 4/26/2025 12:28:50 AM - JAMES CORNELL









SCALE: 1" = 50

# **CONSTRUCTION NOTES**

- 1 MAINTAIN MANAGEABLE VERTICAL CLEARANCE BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING STORM SEWER, WATER MAIN, TELEPHONE DUCTS, AND GAS MAIN. CONSTRUCT ALL SANITARY SEWER CROSSINGS PER N.K.W.D. SPECIFICATIONS ITEM 1.14. MAINTAIN MINIMUM 18" BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING SANITARY SEWER, ACTUAL ELEVATION UNKNOWN. CONTRACTOR TO EXCAVATE & VERIFY ACTUAL LOCATION, SIZE AND ELEVATION OF EXISTING UTILITY PRIOR TO BEGINNING WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY POTENTIAL CONFLICT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK AND THE COST SHALL BE INCLUDED IN THE BID ITEM FOR WATER MAIN.
- 2 PROPOSED FIRE HYDRANT ASSEMBLY, VALVE AND BLOCKING AS PER N.K.W.D. STD. DRAWING NO. 109. COORDINATE LOCATION WITH N.K.W.D. INSPECTOR. ANCHOR VALVE TO TEE.
- (3) CONNECT TO EXISTING WATER MAIN (ACTUAL ELEVATION UNKNOWN). CONTRACTOR TO VERIFY DEPTH PRIOR TO CONSTRUCTION.
- 4 CHANNEL LINING, CLASS II (18") w/ NON-WOVEN GEOTEXTILE FILTER FABRIC
- 5 CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITY PRIOR TO EXCAVATION ACTIVITY AND NOTIFY ENGINEER AND N.K.W.D. OF CONFLICTS. (\*\* SEE NOTE)
- $\langle 6 \rangle$  DO NOT DISTURB
- 7 CONTRACTOR TO SUPPORT UTILITY POLE DURING PIPE INSTALLATION (\*\* SEE NOTE)
- 8 REMOVE AND REPLACE SIGN (\*\* SEE NOTE)
- 9 REMOVE AND REPLACE MAILBOX (\*\* SEE NOTE)
- $\langle 10 \rangle$  INSTALL 5/8" METER SETTING PER NKWD STD. DWG. No. 107. INSTALL WATER SERVICE LINE (3/4" TYPE K COPPER) FROM THE PROPOSED WATER MAIN TO THE METER SETTING. MATERIAL WILL BE PROVIDED BY NKWD FOR THIS WORK. UNIT PRICE INCLUDES LABOR, EQUIPMENT, EXCAVATION, BEDDING, BACKFILL, ASPHALT, CONCRETE AND YARD RESTORATION TO INSTALL SERVICE LINE AS SHOWN ON PLANS OR DIRECTED BY NKWD IN ACCORDANCE WITH SPECS & STD. DWGS., COMPLETE.
- REMOVE & REPLACE STORM STRUCTURE (CB,HW) AS NEEDED FOR WATER MAIN INSTALLATION (\*\* SEE NOTE)
- (12) DRIVEWAY RESTORATION (SEE DETAILS)
- 13 TREE TO BE REMOVED

WORK FOR THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK. COST SHALL BE INCLUDED IN THE BID ITEM FOR WATER

# HATCH LEGEND

1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA

TRENCH RESTORATION - ASPHALT

PAVEMENT - SEE DETAIL SHEET TRENCH RESTORATION - CONCRETE



TRENCH RESTORATION - 8" AGGREGATE PAVEMENT

CONTROL DENSITY FILL - PAV'T TRENCH



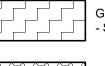
CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET



CONCRETE WALK REPLACEMENT - SEE DETAIL SHEET



ASPHALT DRIVEWAY REPLACEMENT SEE DETAIL SHEET



GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET



SEE DETAIL SHEET DENOTES PROPERTY WITH NEW SERVICE AND METER SETTING PROJECT NO. 231591

DISCIPLINE

CIVIL

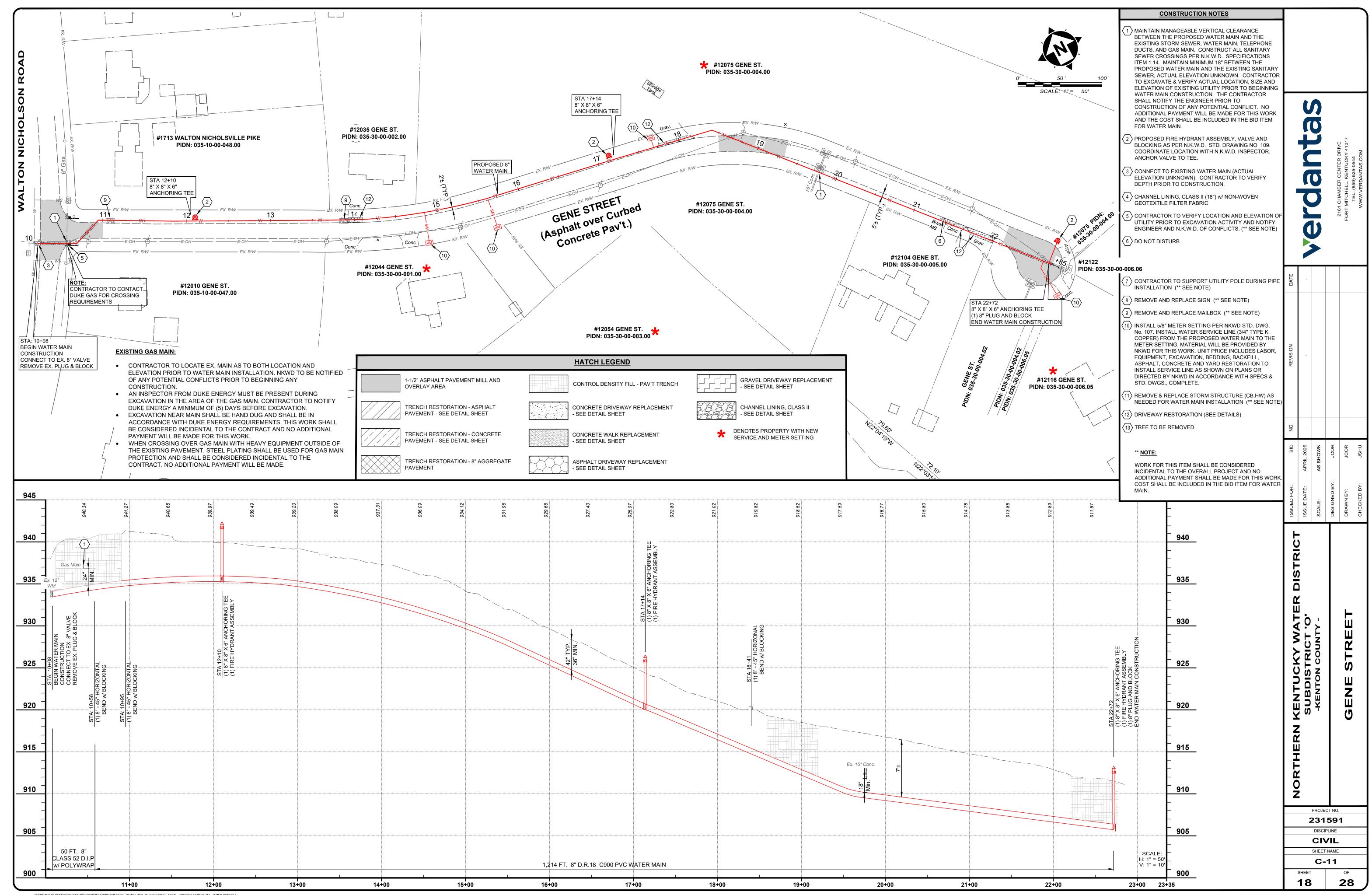
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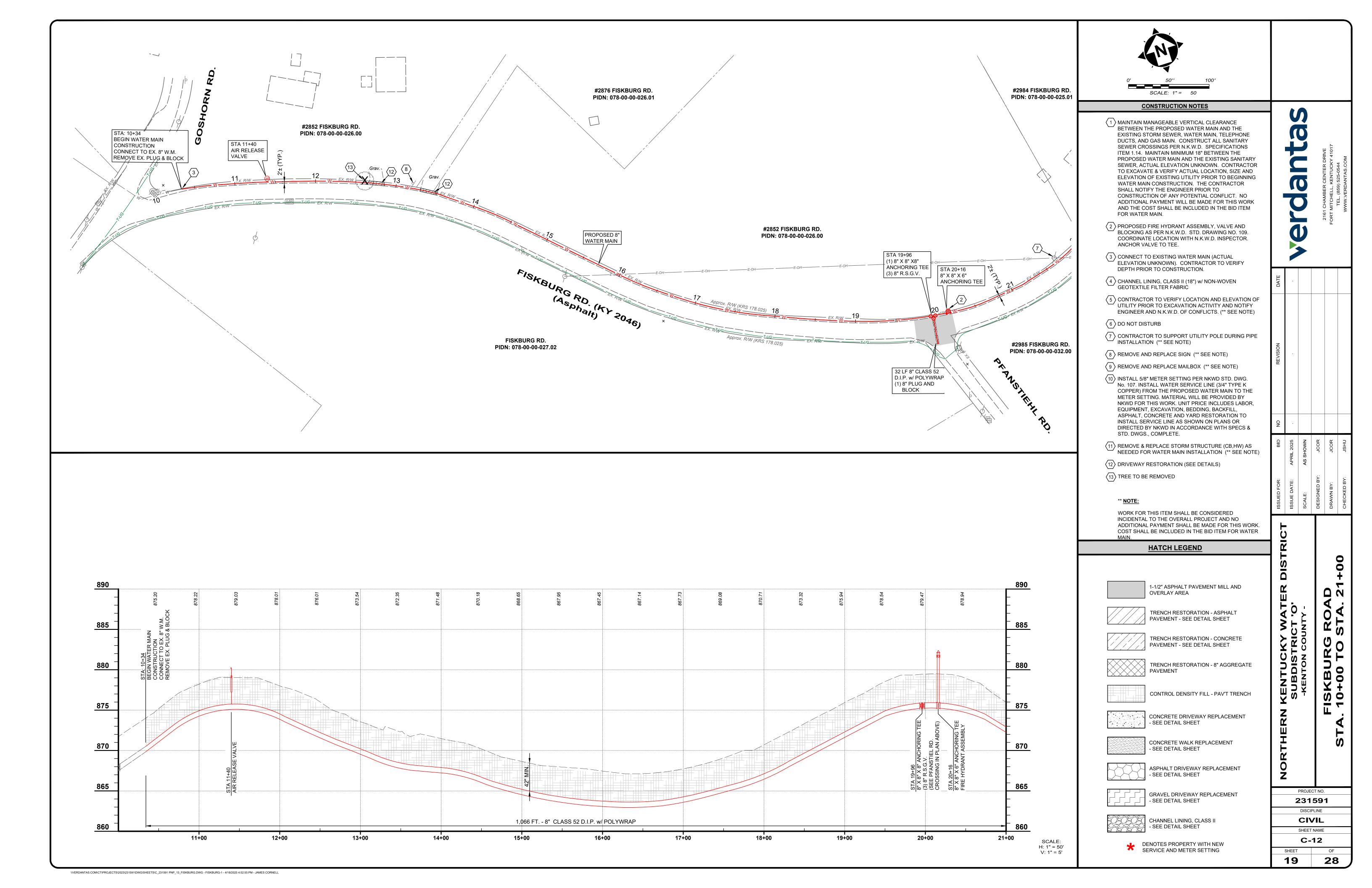
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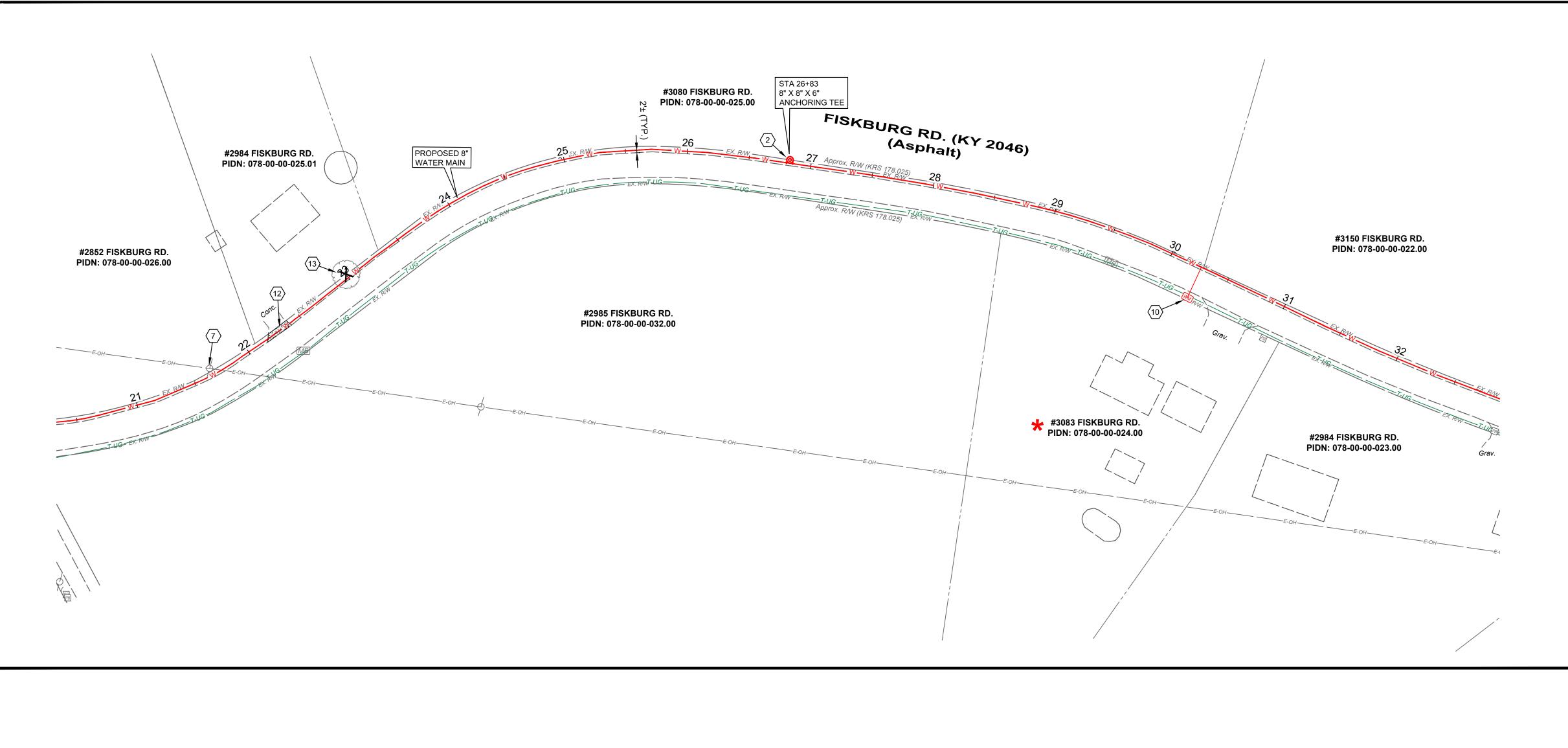
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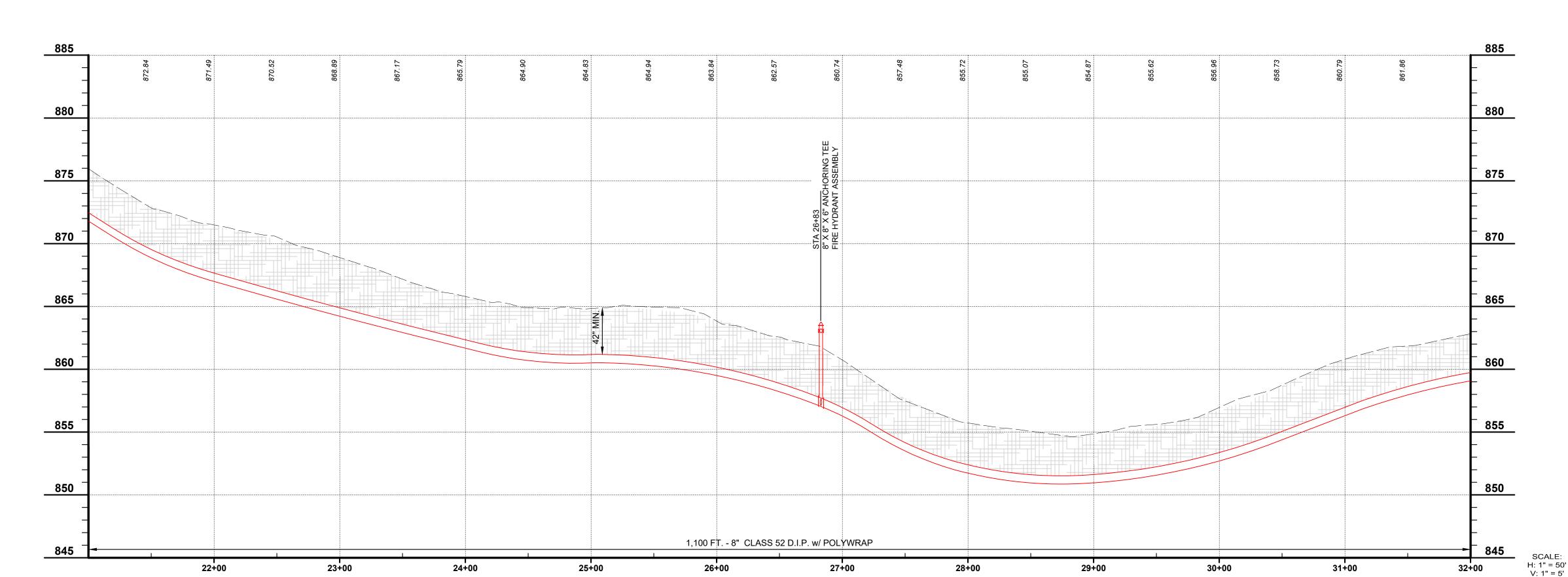
SCALE: H: 1" = 50' V: 1" = 5'

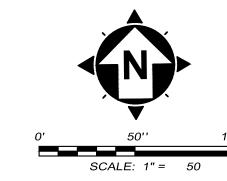
\\VERDANTAS.COM\CT\PROJECTS\2023\231591\DWG\SHEETS\C\_231591 PNP\_09\_MANN.DWG - MANN\_01 - 4/24/2025 5:42:04 PM - JAMES CORNELL











CONSTRUCTION NOTES

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\*\* <u>NOTE:</u>

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# HATCH LEGEND

1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA

TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET

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CONCRETE DRIVEWAY REPLACEMENT
- SEE DETAIL SHEET

CONCRETE WALK REPLACEMENT
- SEE DETAIL SHEET

ASPHALT DRIVEWAY REPLACEMENT
- SEE DETAIL SHEET

GRAVEL DRIVEWAY REPLACEMENT

- SEE DETAIL SHEET

CHANNEL LINING, CLASS II
- SEE DETAIL SHEET

DENOTES PROPERTY WITH NEW SERVICE AND METER SETTING

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<b>APRIL</b> 2025	AS SHOWN	JCOR	JCOR	UHSL
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FISKBURG ROAD STA. 21+00 TO STA. 32+

PROJECT NO.
231591

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DISCIPLINE

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SHEET NAME

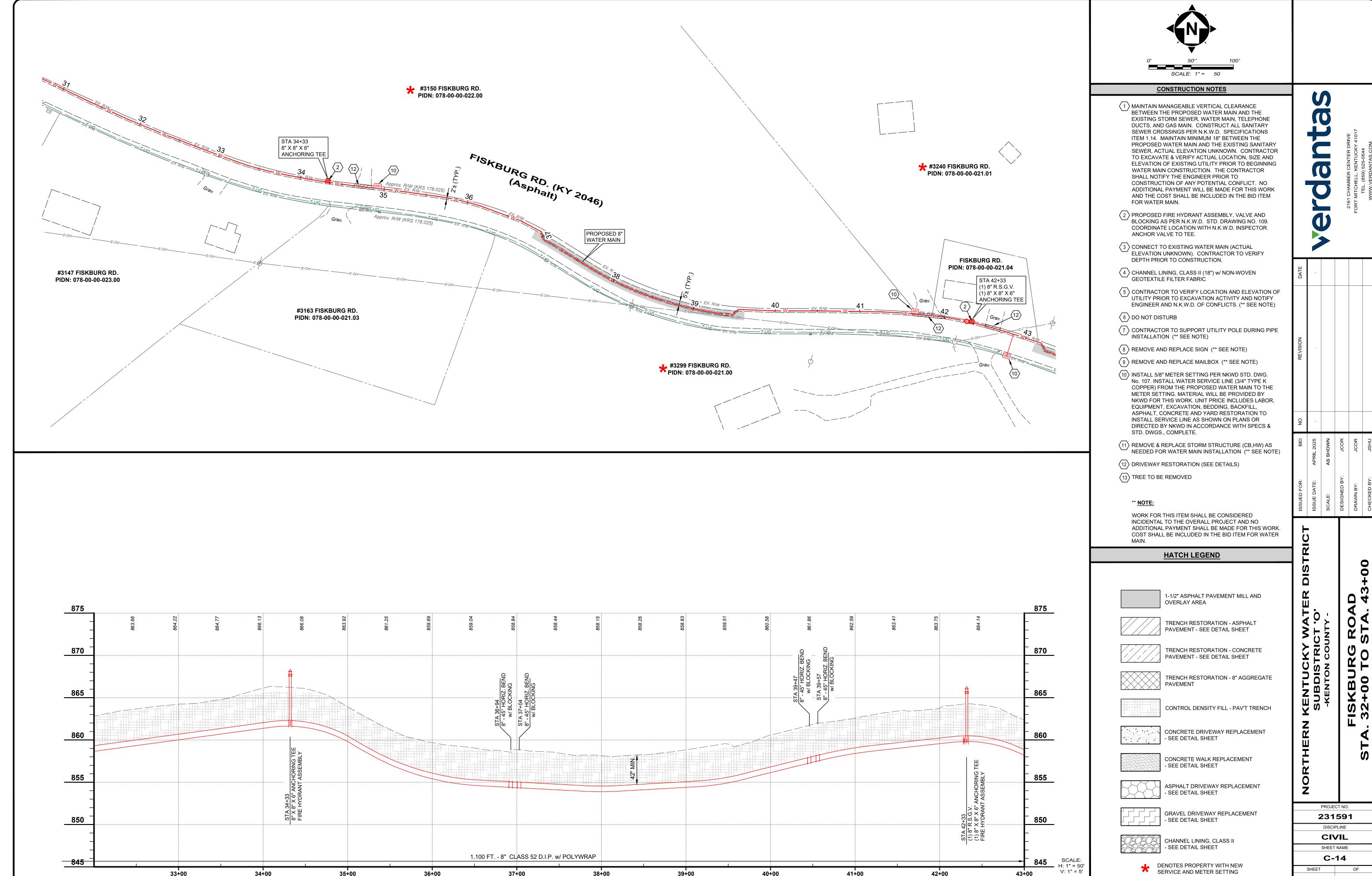
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SERVICE AND METER SETTING

