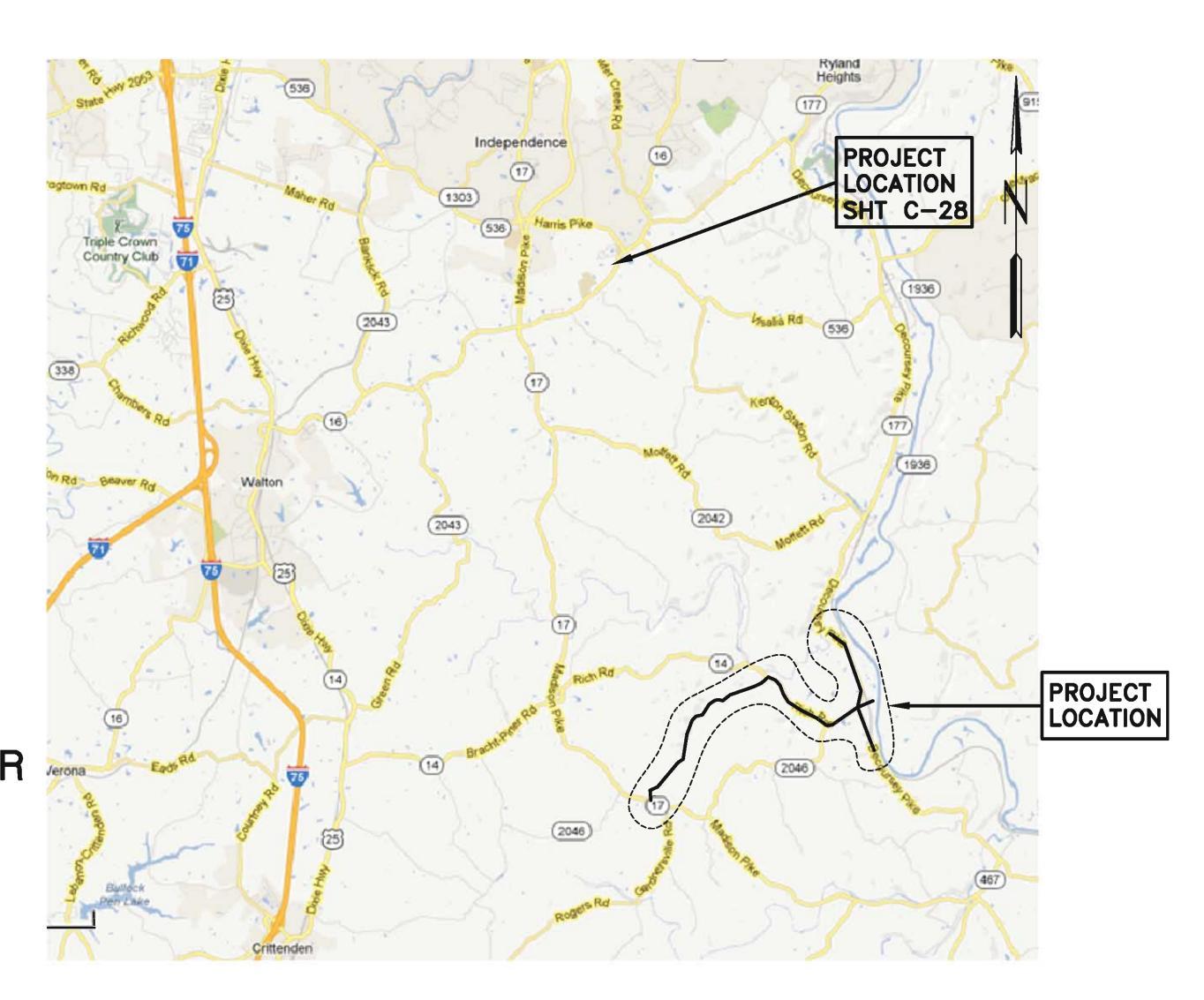


# KENTON COUNTY UNSERVED PROJECT 2012 (SUB-DISTRICT M) INDEX OF DRAWINGS FEBRUARY 2014

RON LOVAN, PRESIDENT/CEO

VICE PRESIDENTS: JACK P. BRAGG RICHARD B. HARRISON

COMMISSIONERS: DOUGLAS C. WAGNER-CHAIRMAN FRED A. MACKE, JR.-VICE-CHAIR CLYDE CUNNINGHAM-SECRETARY DAVID M. SPAULDING, ESQ.-TREASURER ANDREW C. COLLINS-COMMISSIONER DR. PATRICIA SOMMERKAMP-COMMISSIONER



VICINITY MAP





#### COVER, VICINITY MAP & INDEX OF DRAWINGS LOCATION MAP, LEGEND & ABBREVIATIONS LINE "A" - CRUISE CREEK ROAD - STA. 10+00 TO STA. 24+50 LINE "A" - CRUISE CREEK ROAD - STA. 24+50 TO STA. 39+50 LINE "A" - CRUISE CREEK ROAD - STA. 39+50 TO STA. 54+50 LINE "A" - CRUISE CREEK ROAD - STA. 54+50 TO STA. 69+50 LINE "A" - CRUISE CREEK ROAD - STA. 69+50 TO STA. 84+50 LINE "A" - CRUISE CREEK ROAD - STA. 84+50 TO STA. 99+50 LINE "A" - CRUISE CREEK ROAD - STA. 99+50 TO STA. 114+50 LINE "A" - CRUISE CREEK ROAD - STA. 114+50 TO STA. 129+50 LINE "A" - CRUISE CREEK ROAD - STA. 129+50 TO STA. 144+50 LINE "A" - CRUISE CREEK ROAD / RICH ROAD (KY HWY 14) STA. 144+50 TO STA. 159+50 LINE "A" - RICH ROAD (KY HWY 14) - STA. 159+50 TO STA. 174+50 LINE "A" - RICH ROAD (KY HWY 14) - STA. 174+50 TO STA. 189+50 LINE "A" - RICH ROAD (KY HWY 14) - STA. 189+50 TO STA. 204+50 LINE "A" - RICH ROAD (KY HWY 14) - STA. 219+50 TO STA. 232+17 LINE "B" - DECOURSEY PIKE (KY HWY 177) - STA. 24+50 TO STA. 39+50 LINE "B" - DECOURSEY PIKE (KY HWY 177) - STA. 39+50 TO STA. 54+50 LINE "B" - DECOURSEY PIKE (KY HWY 177) - STA. 54+50 TO STA. 69+50 LINE "B" - DECOURSEY PIKE (KY HWY 177) - STA. 69+50 TO STA. 71+11 LINE "C" - DECOURSEY PIKE (KY HWY 177) - STA. 10+00 TO STA. 24+50 LINE "C" - DECOURSEY PIKE (KY HWY 177) - STA. 24+50 TO STA. 31+64 LINE "E" - DECOURSEY PIKE (KY HWY 177) - STA. 10+00 TO STA. 24+50 LINE "E" - DECOURSEY PIKE (KY HWY 177) - STA. 24+50 TO STA. 39+50 LINE "E" - DECOURSEY PIKE (KY HWY 177) - STA. 39+50 TO STA. 40+48 LINE "G" - CAMP DRIVE - STA. 10+00 TO STA. 13+54 LINE "D" - RICH ROAD (KY HWY 14) / HARBIL STREET STA. 10+00 TO STA. 20+95 LINE "F" - ROUSE ROAD - STA. 10+00 TO STA. 13+44 LINE "H" - LAKEVIEW DRIVE - STA. 10+00 TO STA. 14+88 CIVIL - STANDARD DETAILS CIVIL - STANDARD DETAILS CIVIL BMP - LINE "A" STA. 10+00 TO STA. 42+00 CIVIL BMP - LINE "A" STA. 42+00 TO STA. 69+50 CIVIL BMP - LINE "A" STA. 69+50 TO STA. 99+50 CIVIL BMP - LINE "A" STA. 99+50 TO STA. 129+50 CIVIL BMP - LINE "A" STA. 129+50 TO STA. 159+50 CIVIL BMP - LINE "A" STA. 159+50 TO STA. 189+50 CIVIL BMP - LINE "A" STA. 189+50 TO STA. 219+50 CIVIL BMP - LINE "A" STA. 219+50 TO STA. 232+54.29 CIVIL BMP - LINE "B" STA. 10+00 TO STA. 24+50 CIVIL BMP - LINE "B" STA. 24+50 TO STA. 54+50 CIVIL BMP - LINE "D" STA. 10+00 TO STA. 38+50

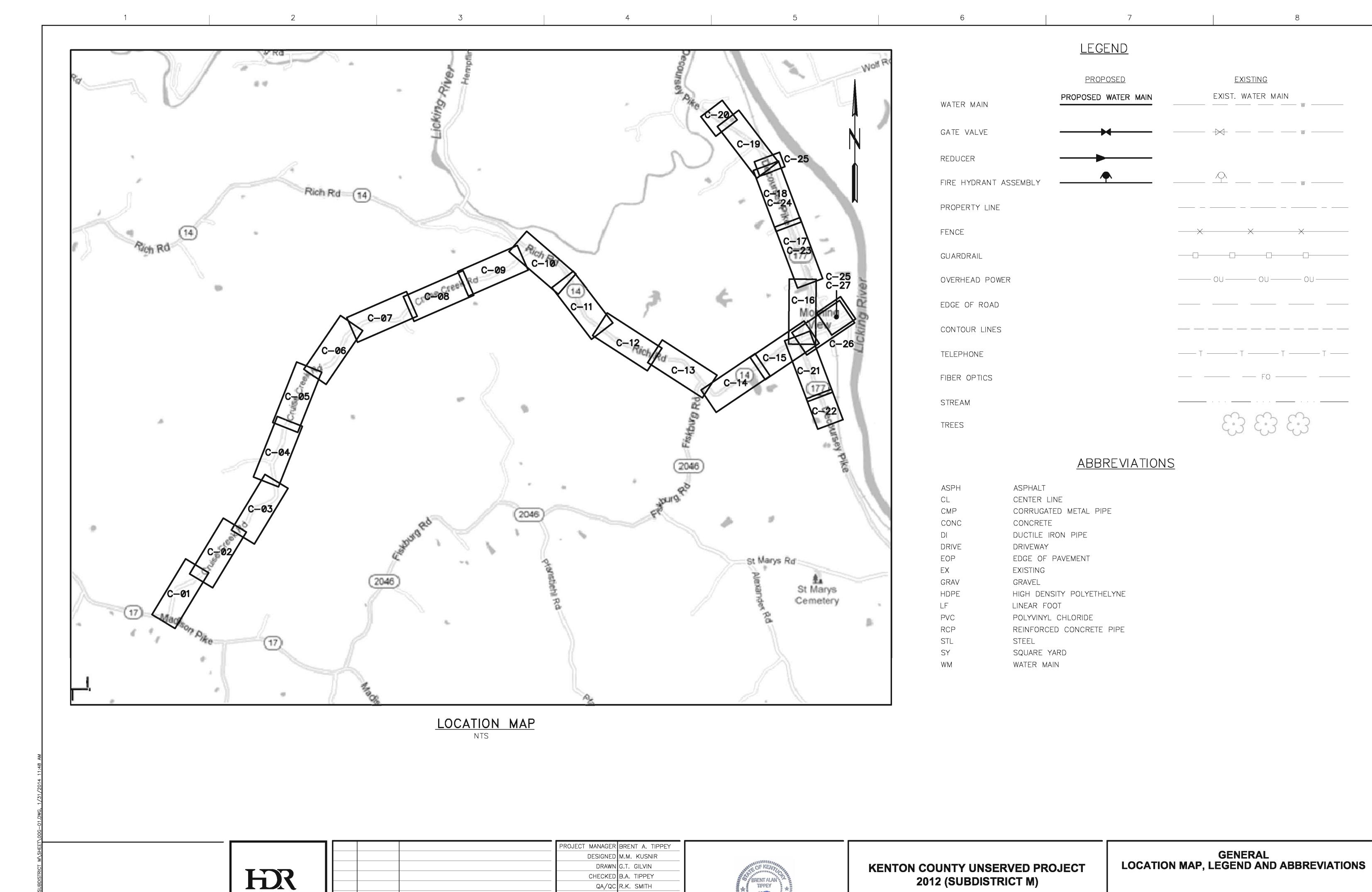
CIVIL BMP - LINE "B" STA. 54+50 TO STA. 71+57.71 CIVIL BMP - LINE "D" STA. 38+50 TO STA. 40+39.72

CIVIL BMP - LINE "C" STA. 10+00 TO STA. 31+80.23 CIVIL BMP - LINE "E" STA. 10+00 TO STA. 18+35.97 CIVIL BMP - LINE "F" STA. 10+00 TO STA. 12+24.85 CIVIL BMP - LINE "F2" STA. 10+00 TO STA. 12+97.54 CIVIL BMP - LINE "H" STA. 10+00 TO STA. 15+27.79

TITLE

KDOW SUBMITTAL

CIVIL BMP - NOTE AND DETAILS



PROJECT NUMBER 198124

HDR Engineering, Inc.

JAN 2014 REVIEW SET

DESCRIPTION

NORTHERN KENTUCKY WATER DISTRICT

FILENAME 00G-01.dwg

G-01

- 1. KENTUCKY STATUTE (KRS 367) REQUIRES THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL NOTIFY AND ALERT ALL UTILITY COMPANIES IN THE AREA AND/OR UNDERGROUND PROTECTION SERVICE SUCH AS B.U.D. (1-800-752-6007) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.
- 2. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK THAT REQUIRES EXISTING UTILITIES TO BE TEMPORARILY TAKEN OUT OF SERVICE.
- 3. SURVEY MARKERS USED ON THIS PROJECT ARE MAG NAILS IN PAVEMENT AREAS AND IRON PIN W/CAP OUTSIDE OF PAVEMENT AREAS.
- 4. THE INSTALLATION OF WATER MAINS, SERVICES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH NORTHERN KENTUCKY WATER DISTRICT'S (NKWD) 2007 STANDARD SPECIFICATIONS & DRAWINGS
- 5. A MINIMUM 24 HOURS NOTICE SHALL BE GIVEN TO NKWD BY THE CONTRACTOR PRIOR TO THE START OF WATER MAIN WORK
- 6. ALL BENDS OVER FIVE (5) DEGREES SHALL BE SECURELY BLOCKED AGAINST MOVEMENT WITH CONCRETE THRUST BLOCKS PLACED AGAINST UNDISTURBED EARTH IN ACCORDANCE WITH STANDARD DRAWINGS #104 AND #104A
- 7. EXISTING UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS HEREON ARE BASED ON AVAILABLE INFORMATION AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY CONTRACTOR'S FAILURE TO LOCATE OR PRESERVE THESE UNDEGROUND FACILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICES.
- 8. PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH AND LOCATION OF CONNECTION POINTS TO THE EXISTING WATER MAIN. ADJUSTMENT OF PIPE ALIGNMENT AND PROFILE AND ADDITIONAL HORIZONTAL AND VERTICAL BENDS MAY BE REQUIRED TO ACCOMMODATE THE TIE-INS.
- 9. WHERE POSSIBLE, WATERLINE DEFLECTION SHOWN (OTHER THAN BENDS) SHALL OCCUR UNIFORMLY OVER MULTIPLE PIPE JOINTS.
- 10. PROPERTY LINES AND HIGHWAY RIGHT-OF-WAY HAVE BEEN OBTAINED FROM AVAILABLE PVA SOURCES AND KDOT HIGHWAY PLANS. PORTIONS OF THE ROUTE MAY HAVE ONLY PRESCRIPTIVE RIGHT-OF-WAY BASED ON KDOT INFORMATION. PRESCRIPTIVE RIGHT-OF-WAY IS DEFINED AS FOLLOWS BY KRS 178.025:
  - A. IN ABSENCE OF ANY RECORD, THE WIDTH OF A PUBLIC ROAD RIGHT—OF—WAY SHALL BE PRESUMED TO EXTEND TO AND INCLUDE THAT AREA LYING OUTSIDE THE SHOULDERS AND DITCH LINES AND WITHIN ANY LANDMARKS SUCH AS FENCES, FENCE POSTS, CORNERSTONES OR OTHER SIMILAR MONUMENTS INDICATING THE BOUNDARY LINES
  - B. IN THE ABSENCE OF BOTH RECORD OR LANDMARK, THE RIGHT—OF—WAY OF A PUBLIC ROAD SHALL BE DEEMED TO EXTEND TO AND INCLUDE THE SHOULDERS AND DITCH LINE ADJACENT TO SAID ROAD AND TO THE TOP OF CUTS OR TOE OF FILLS WHERE SUCH EXISTS

### UTILITY INFORMATION

WATER: NORTHERN KENTUCKY WATER DISTRICT (859) 426-2717

JOHN SCHEBEN, ENGINEERING SUPERVISOR

DATA:

SPRINT JOSEPH THOMAS (469) 266-5362 (937) 209-9754 (CELL)

INSIGHT COMMUNICATIONS

(859) 431-0300

ELECTRIC: OWEN ELECTRIC COOPERATIVE

(859) 393-1677 (CELL)

ORMAN GLASS

TELEPHONE: CINCINNATI BELL 1-800-752-6007

### TRANSPORTATION

STATE: KTC-DOH DISTRICT #6 COVINGTON, KY. (859) 341-2700 EXT. 302

MARK BRANNON, CONTACT

COUNTY: KENTON COUNTY PUBLIC WORKS (859) 392-1920

CHRIS WARNERFORD, SUPERINTENDENT

CSX RAILROAD: 1-800-232-0144

KENTUCKY UNDERGROUND PROTECTION INC: 1-800-752-6007

HDR Engineering, Inc.

			PROJECT MANAGER	BRENT A. TIPPEY
			DESIGNED	M.M. KUSNIR
			DRAWN	G.T. GILVIN
			CHECKED	B.A. TIPPEY
			QA/QC	R.K. SMITH
	JAN 2014	REVIEW SET		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	198124



KENTON COUNTY UNSERVED PROJECT 2012 (SUBDISTRICT M)

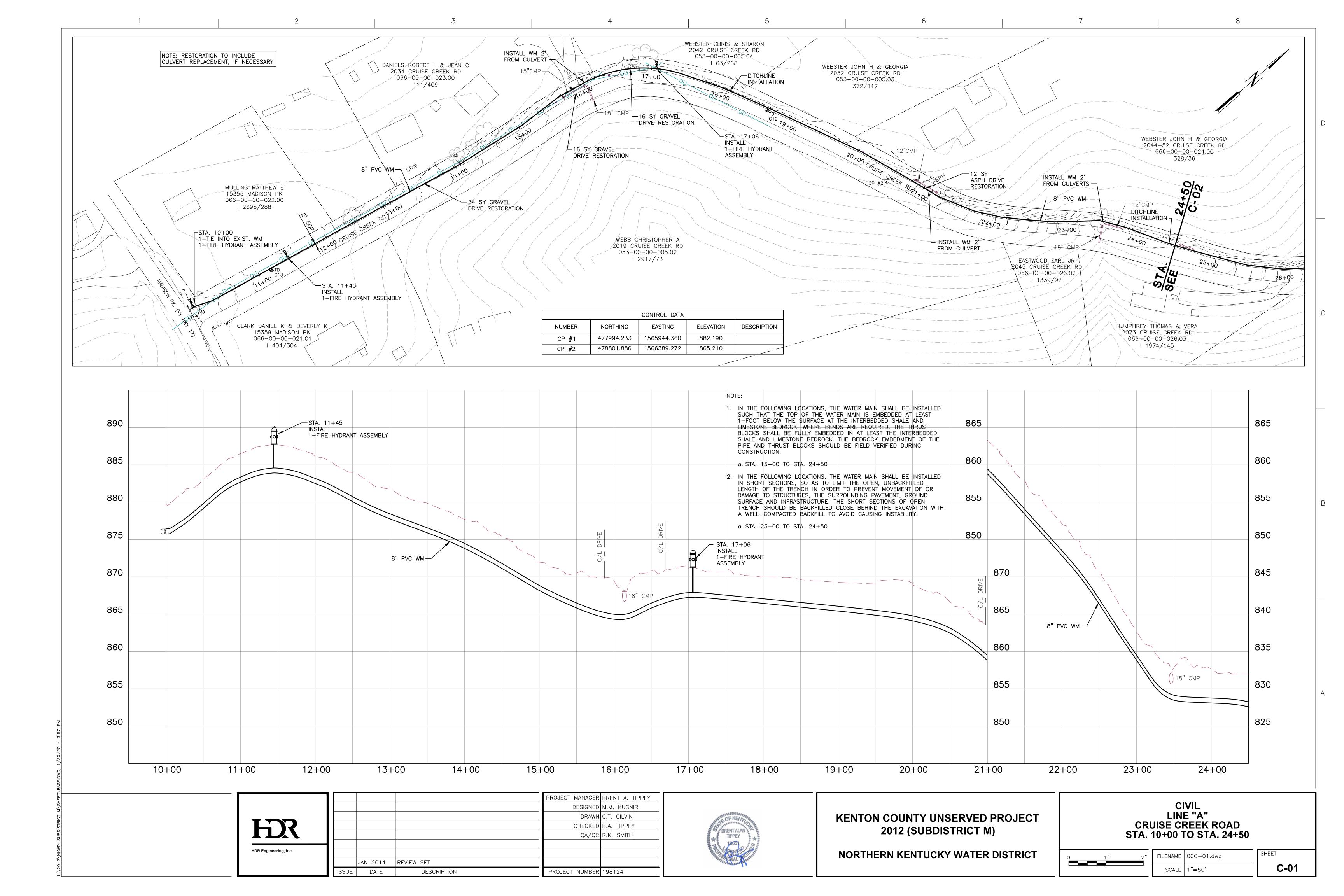
NORTHERN KENTUCKY WATER DISTRICT

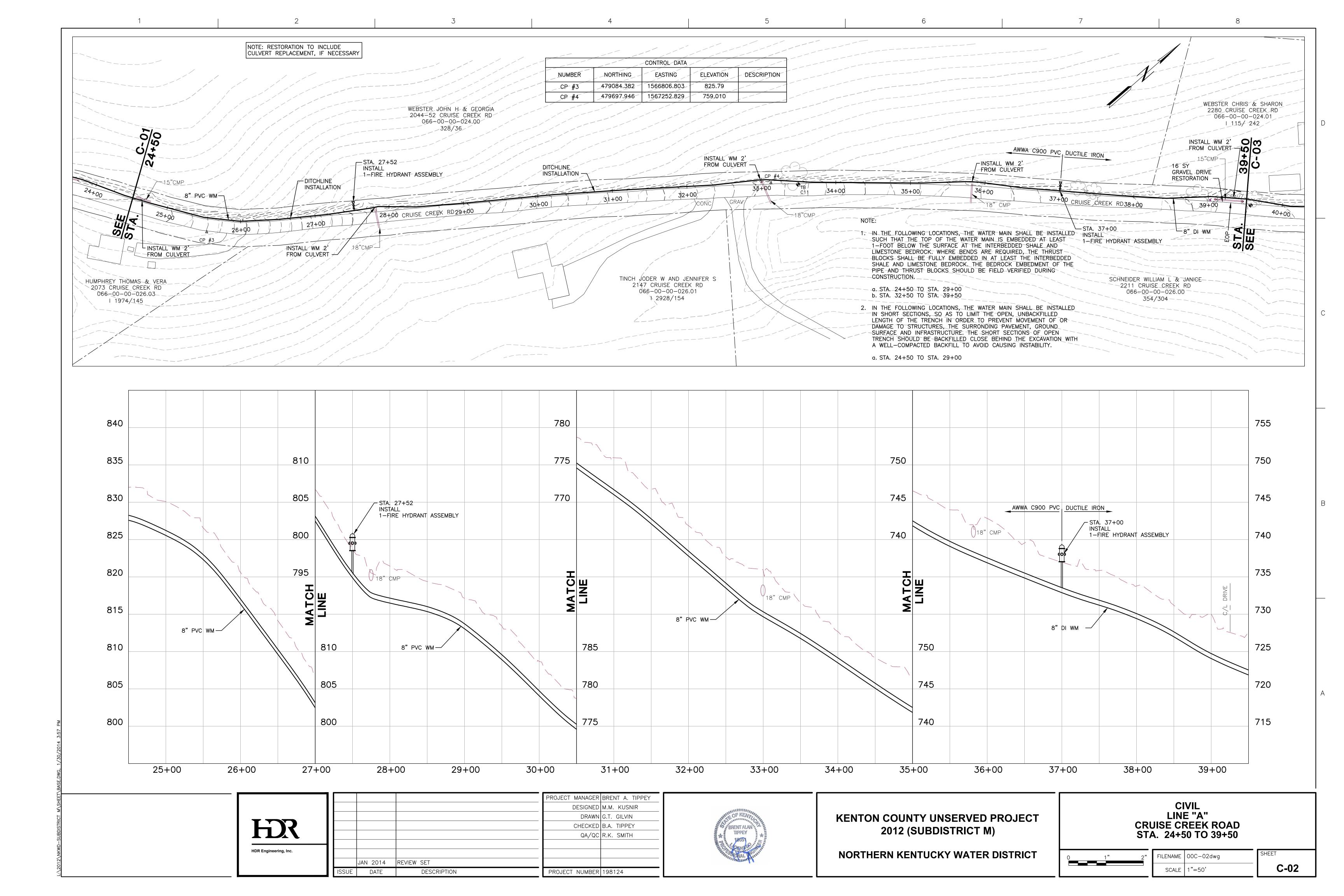
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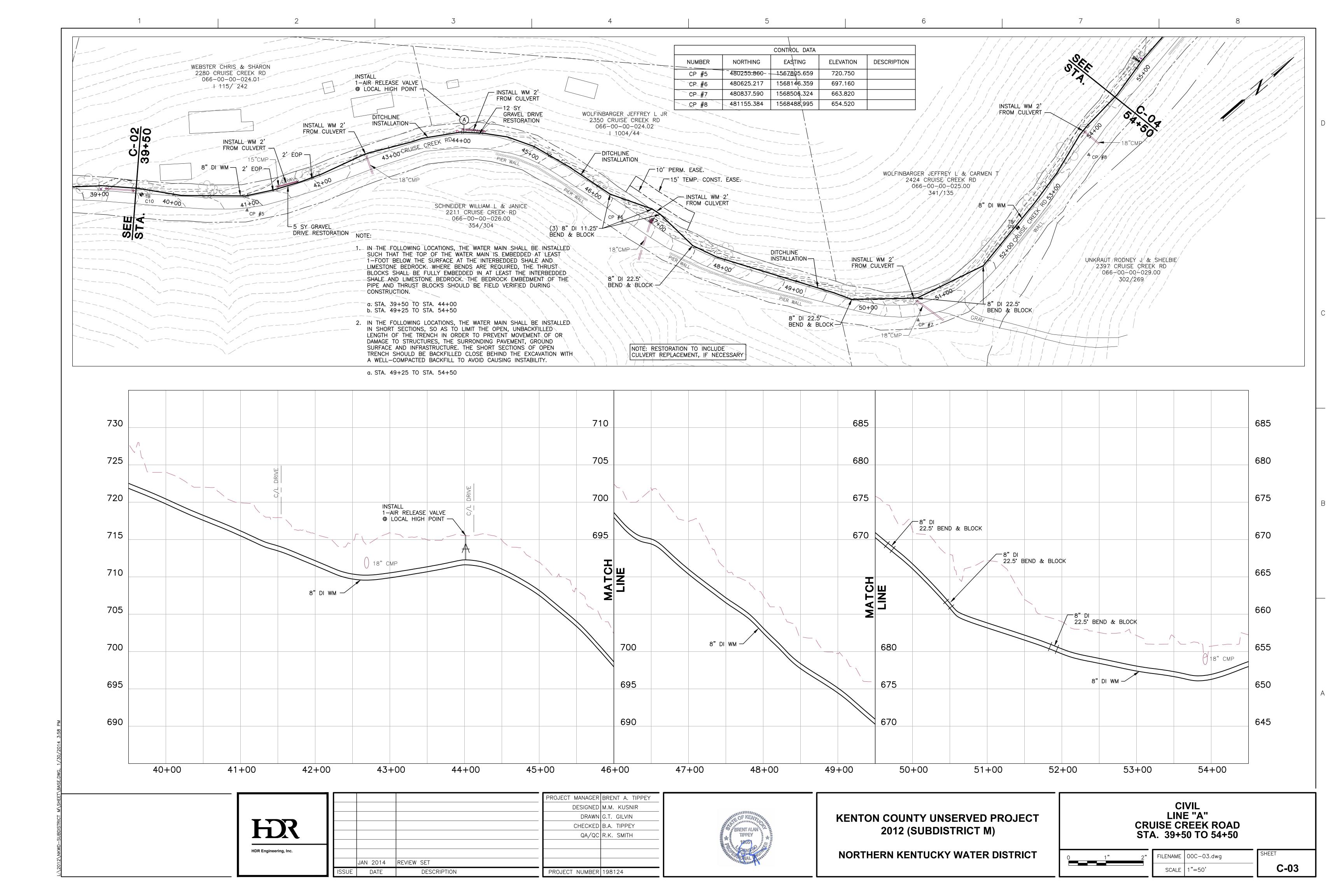
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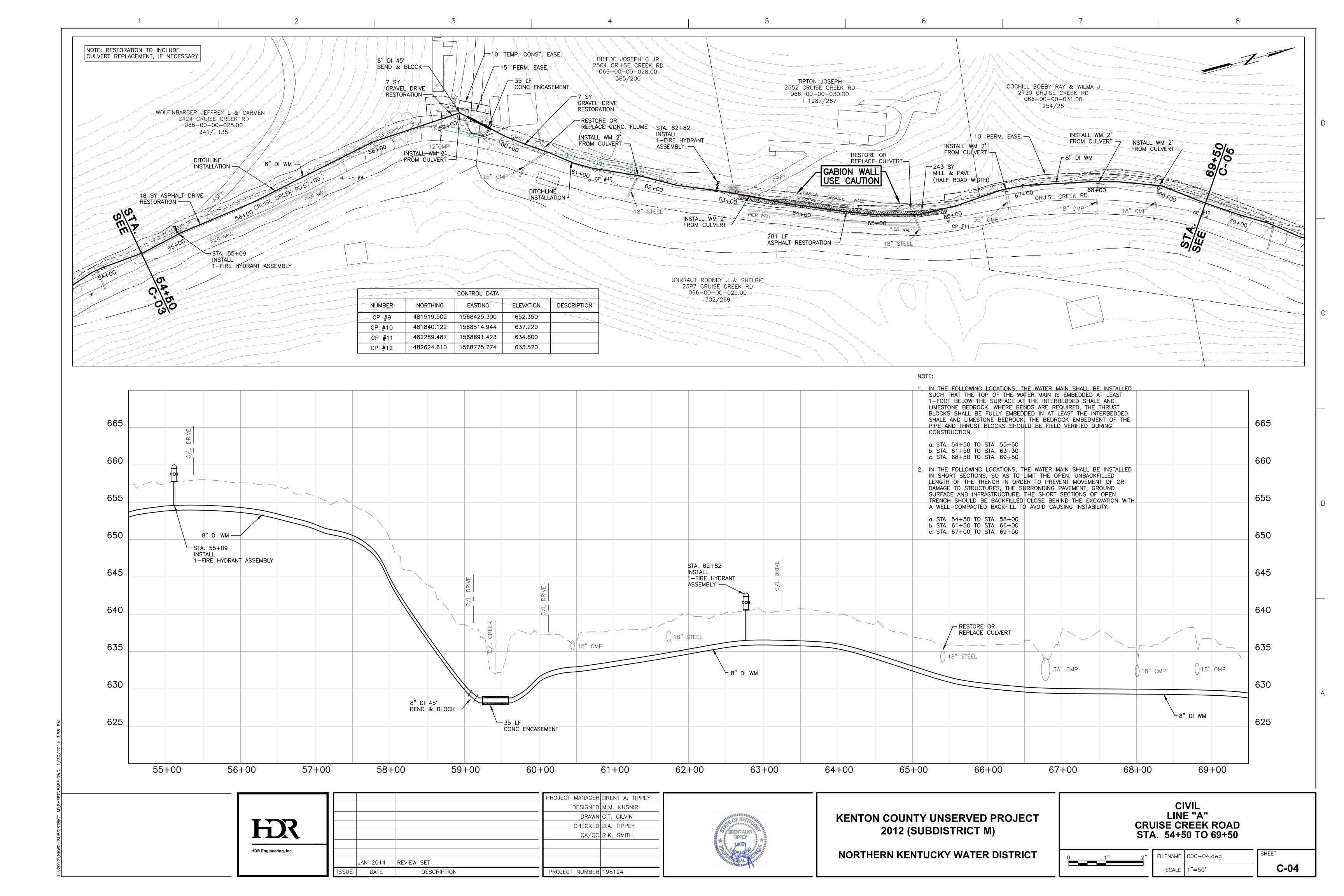
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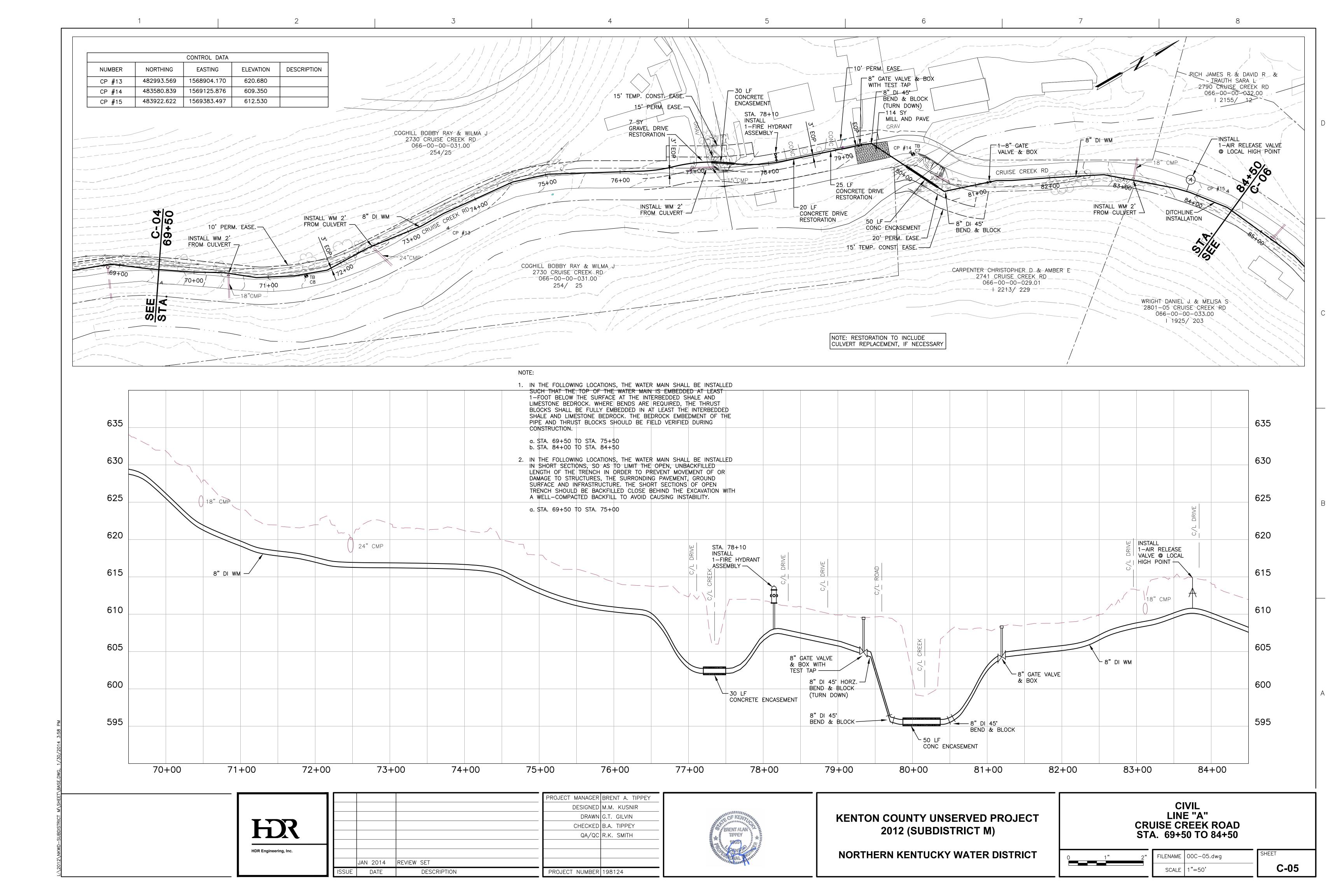
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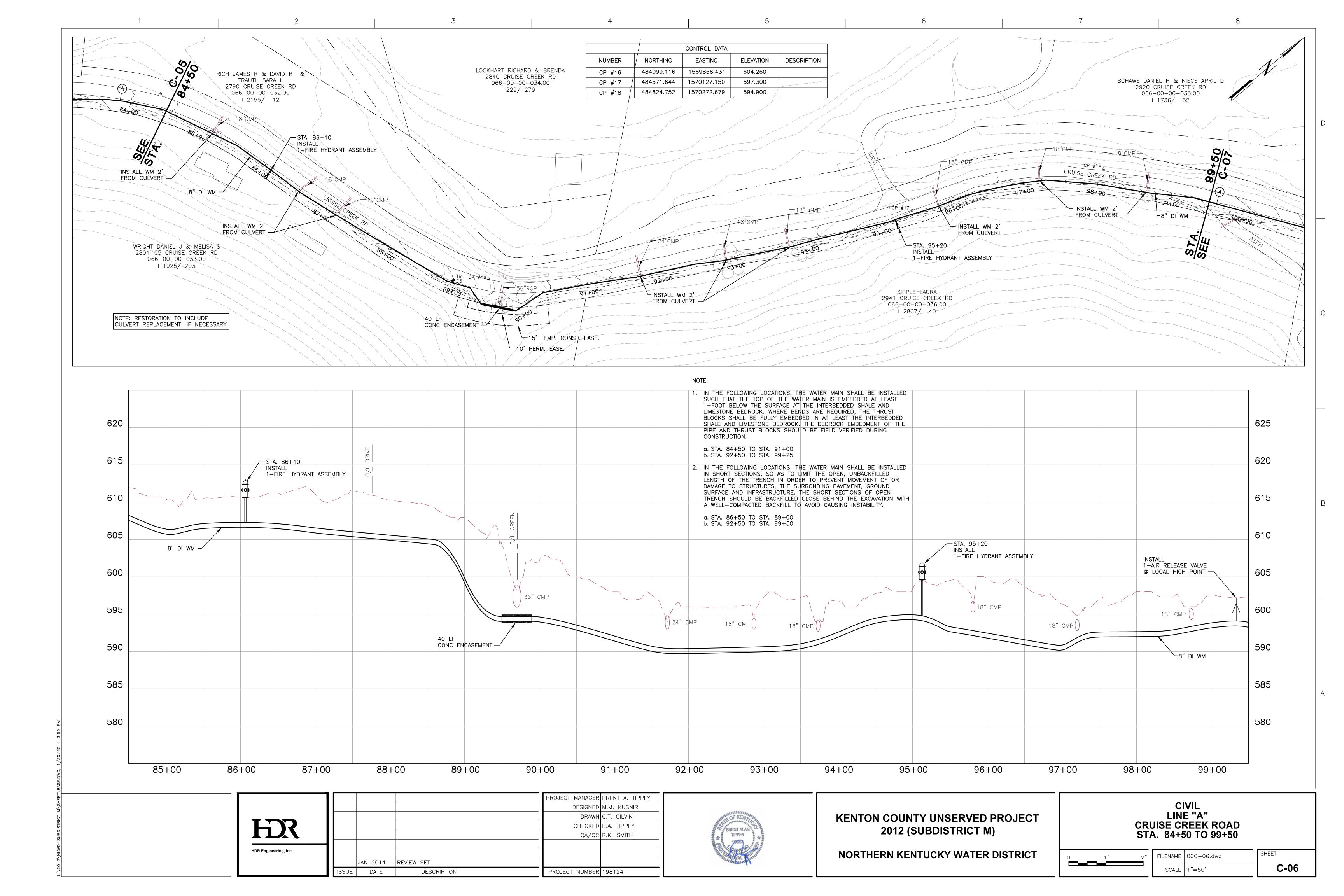


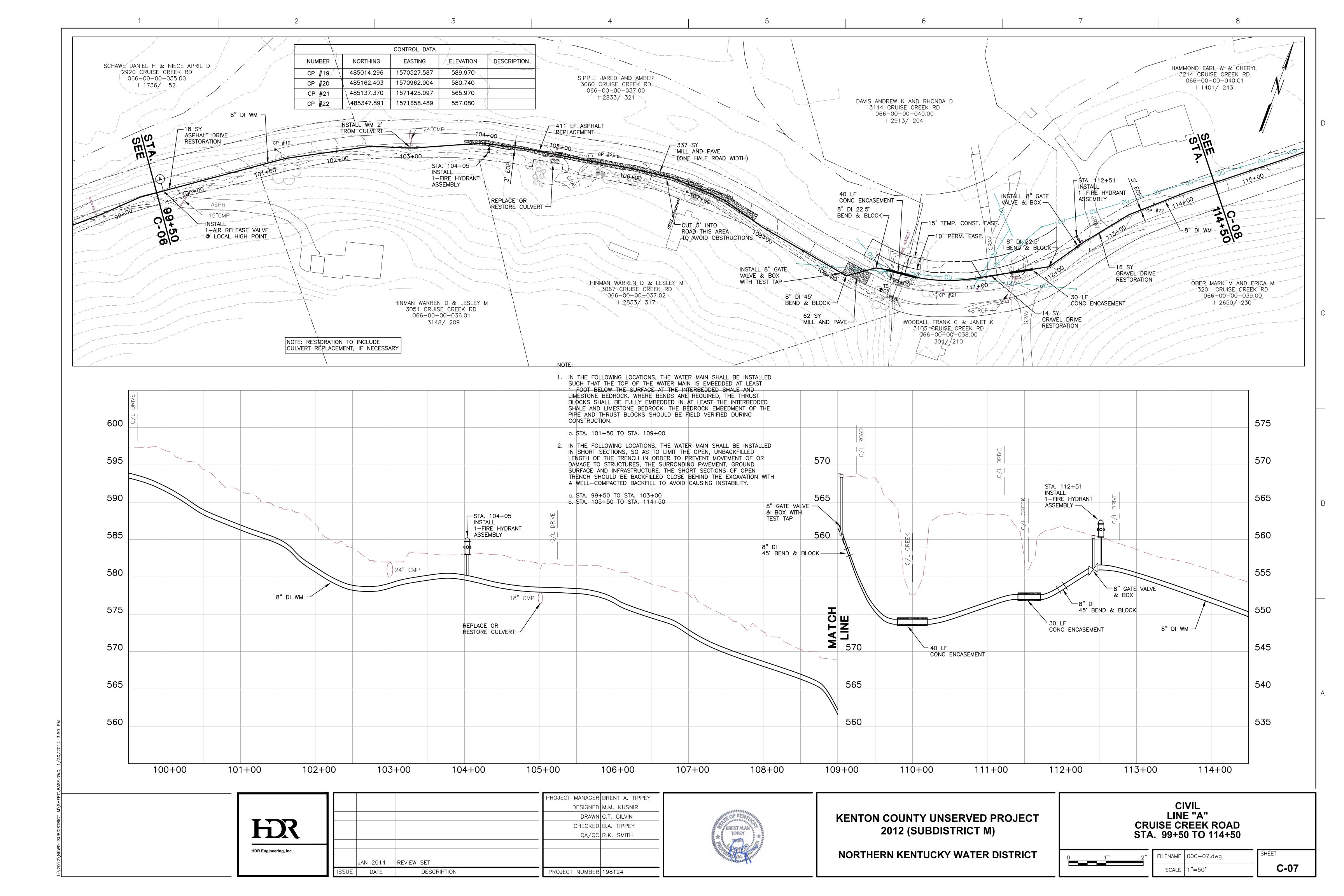


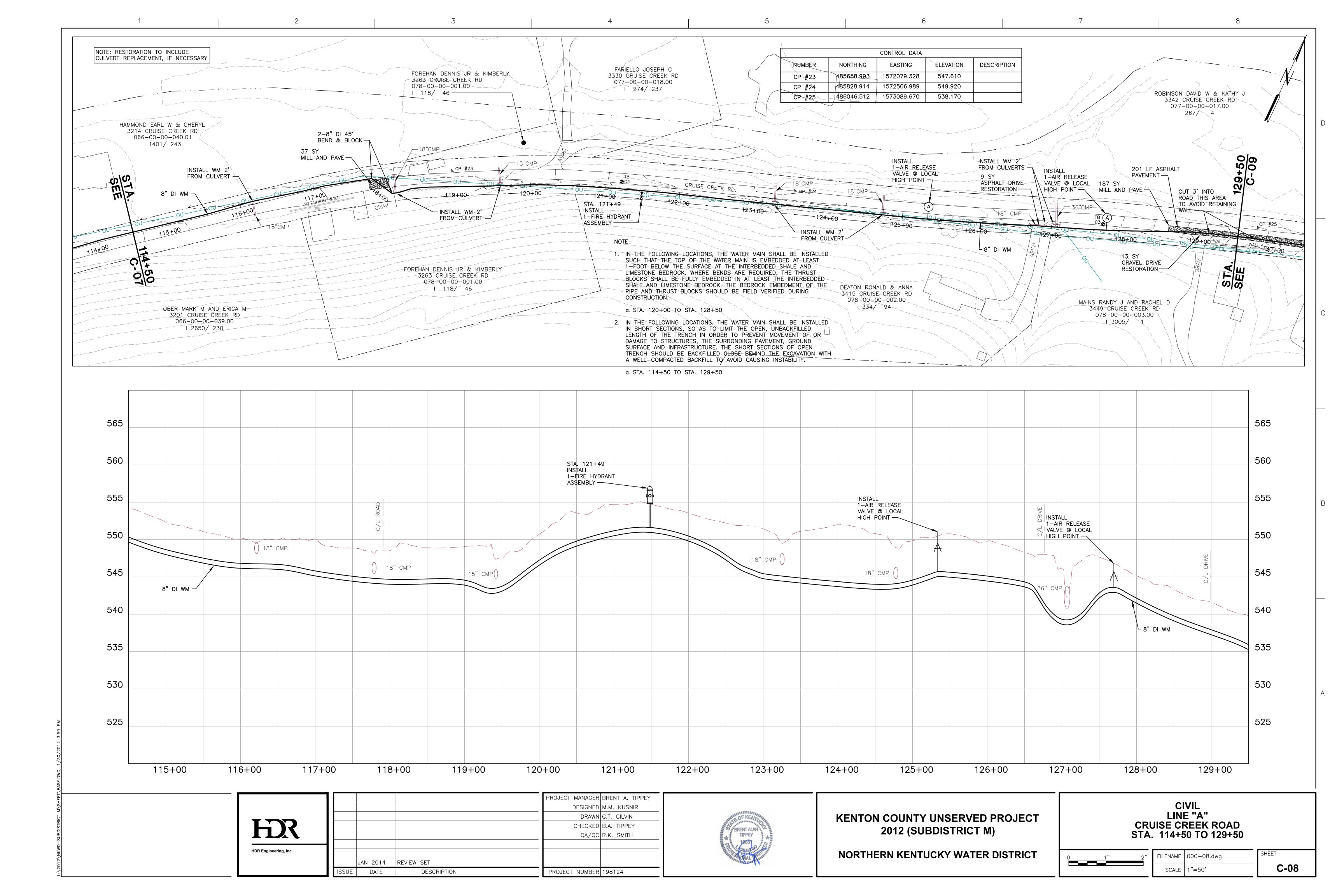


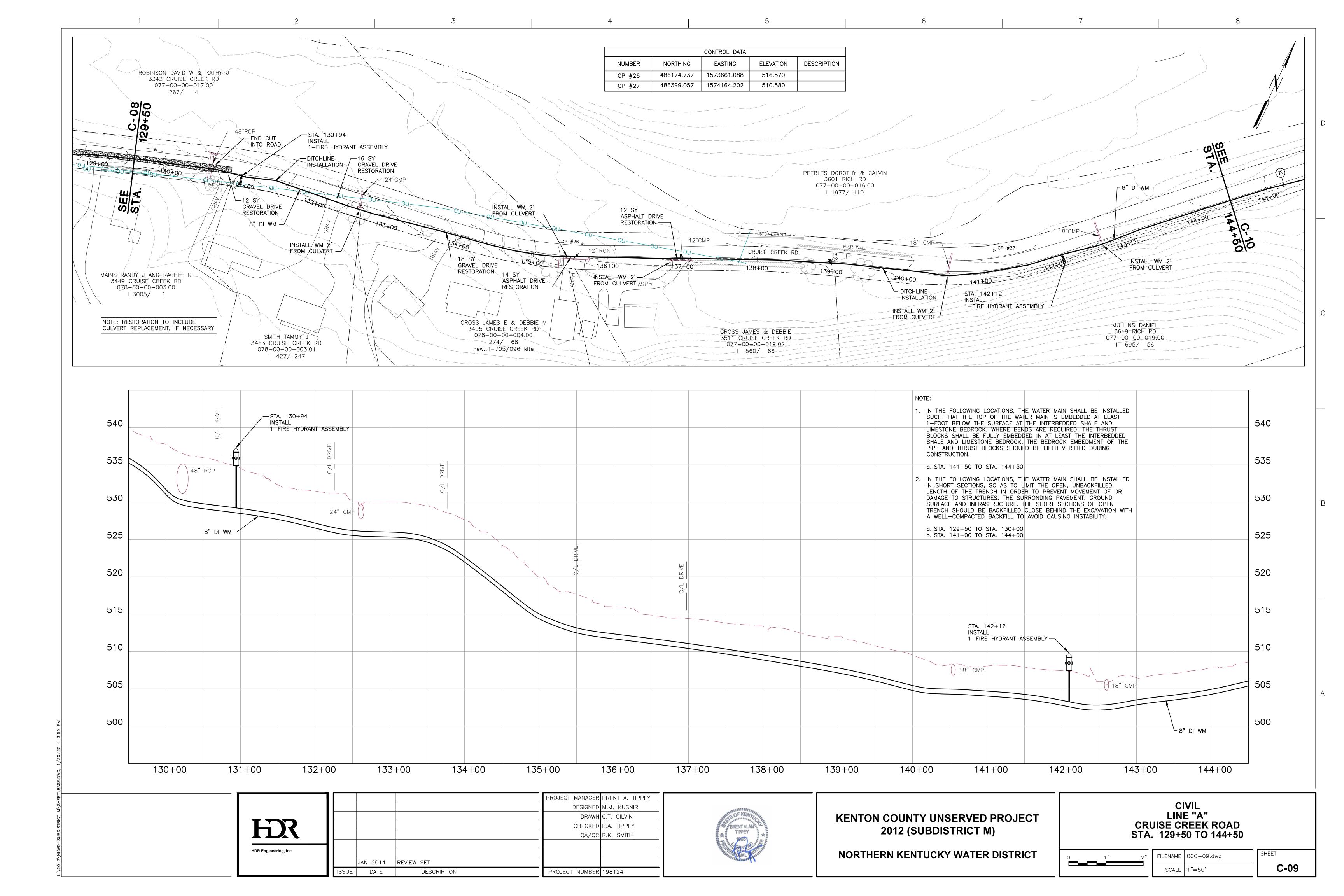


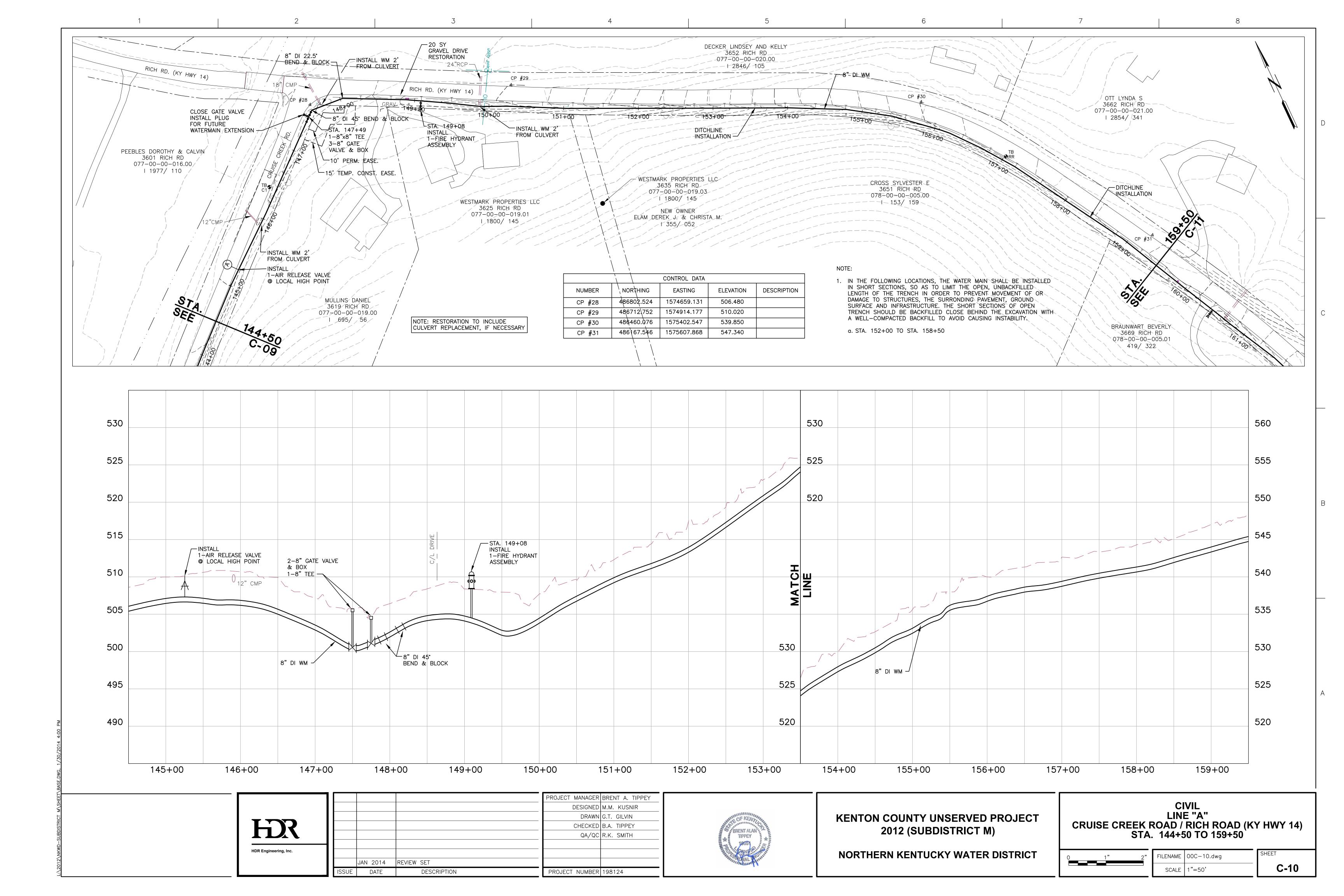


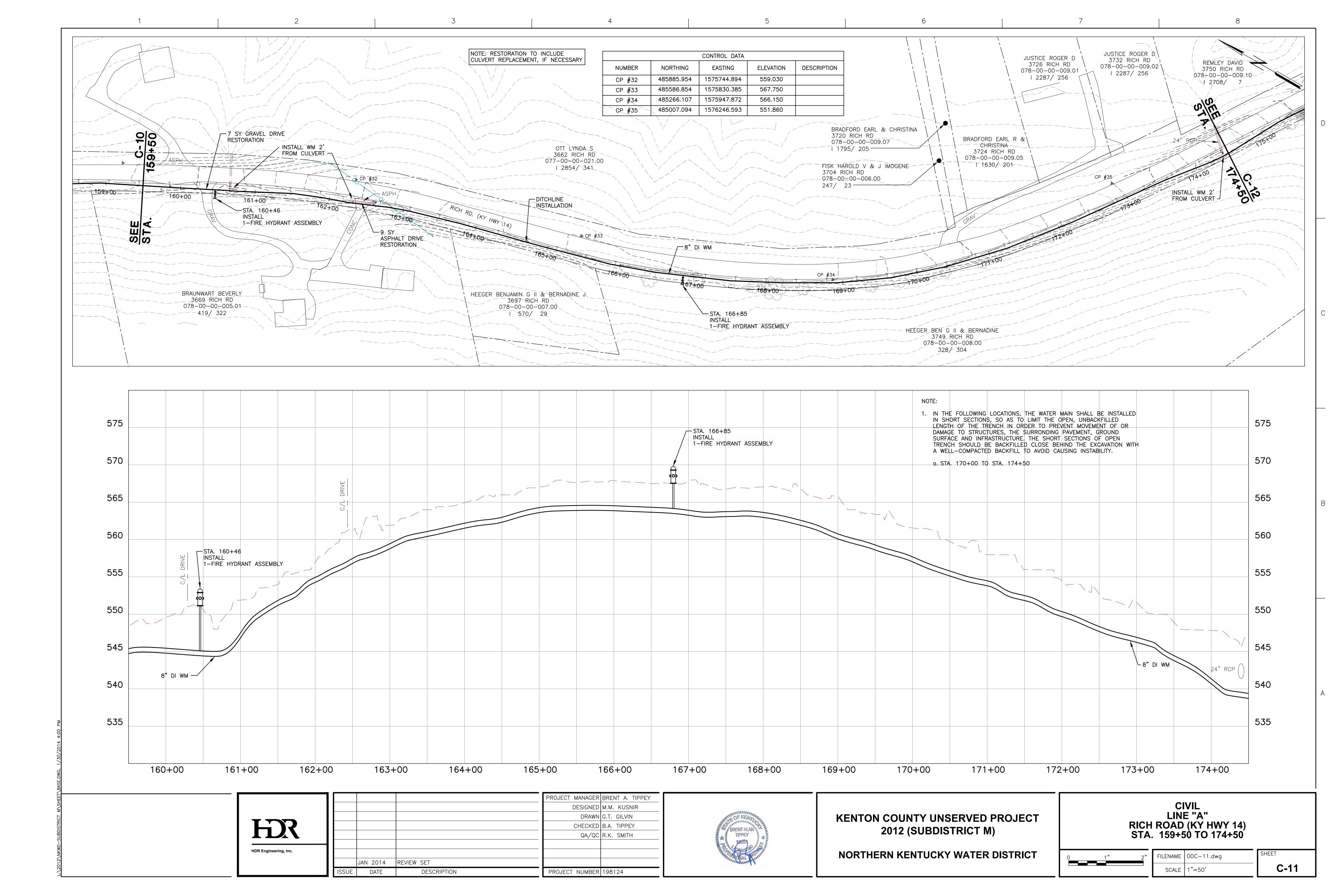


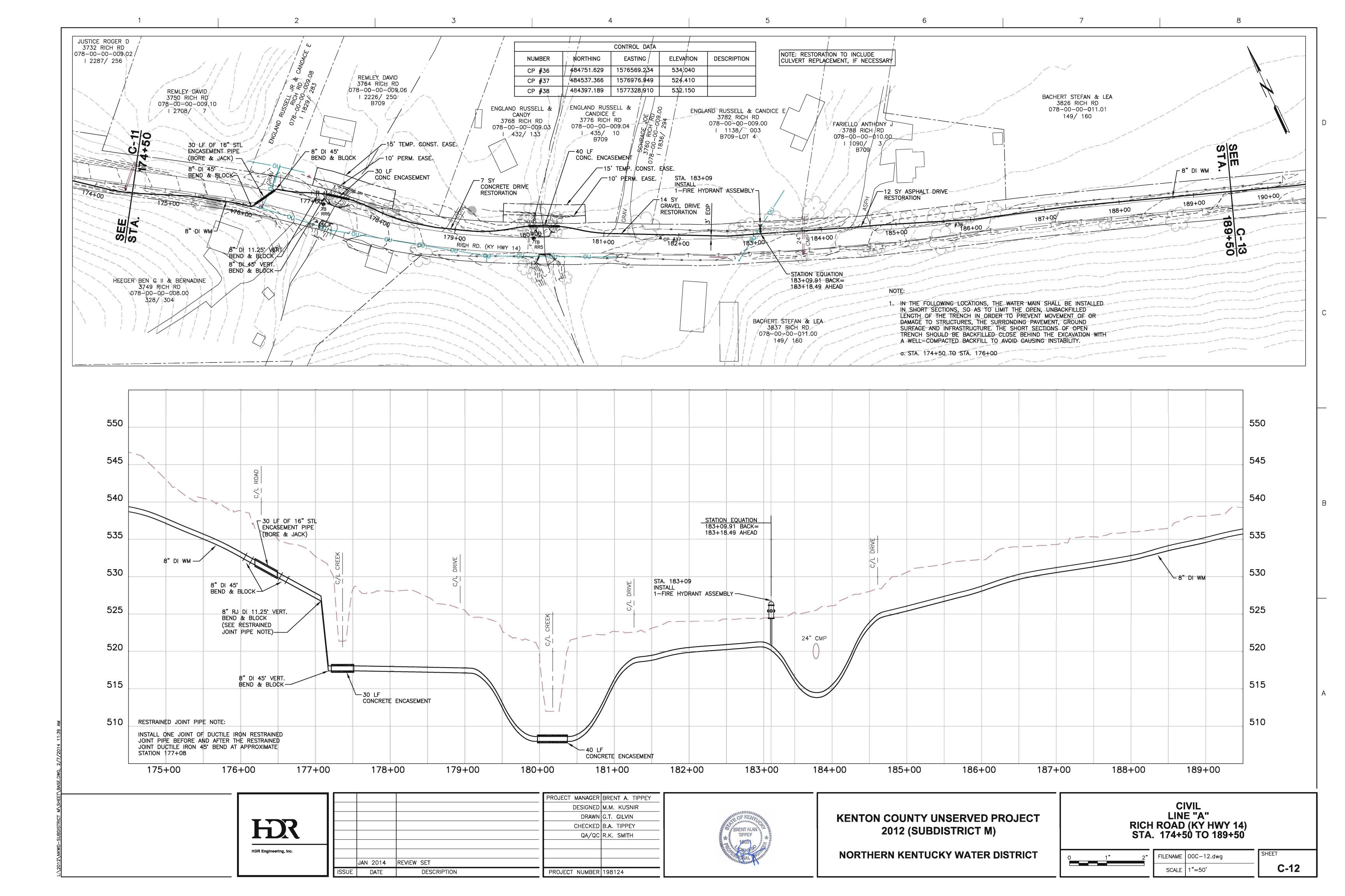


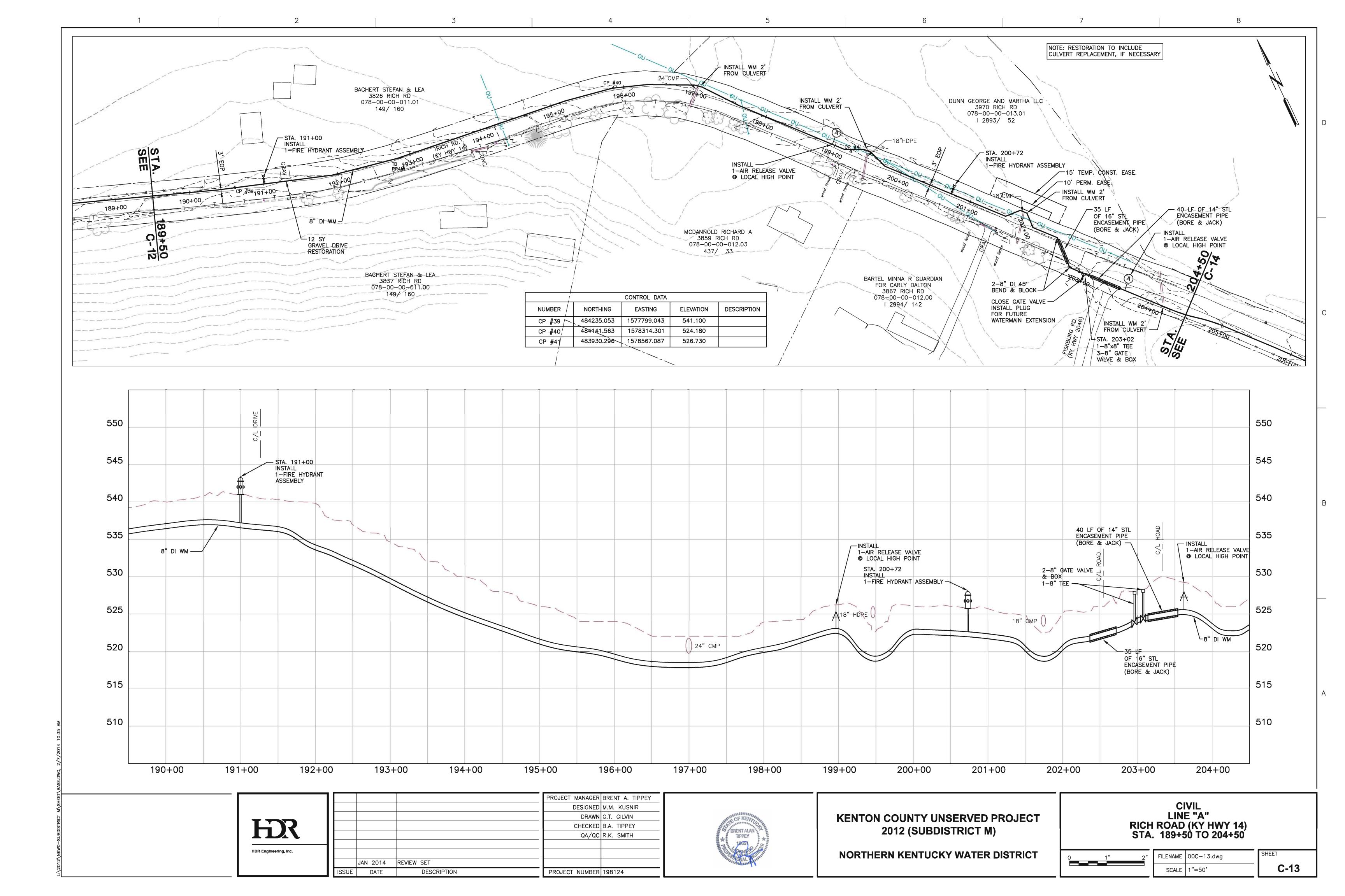


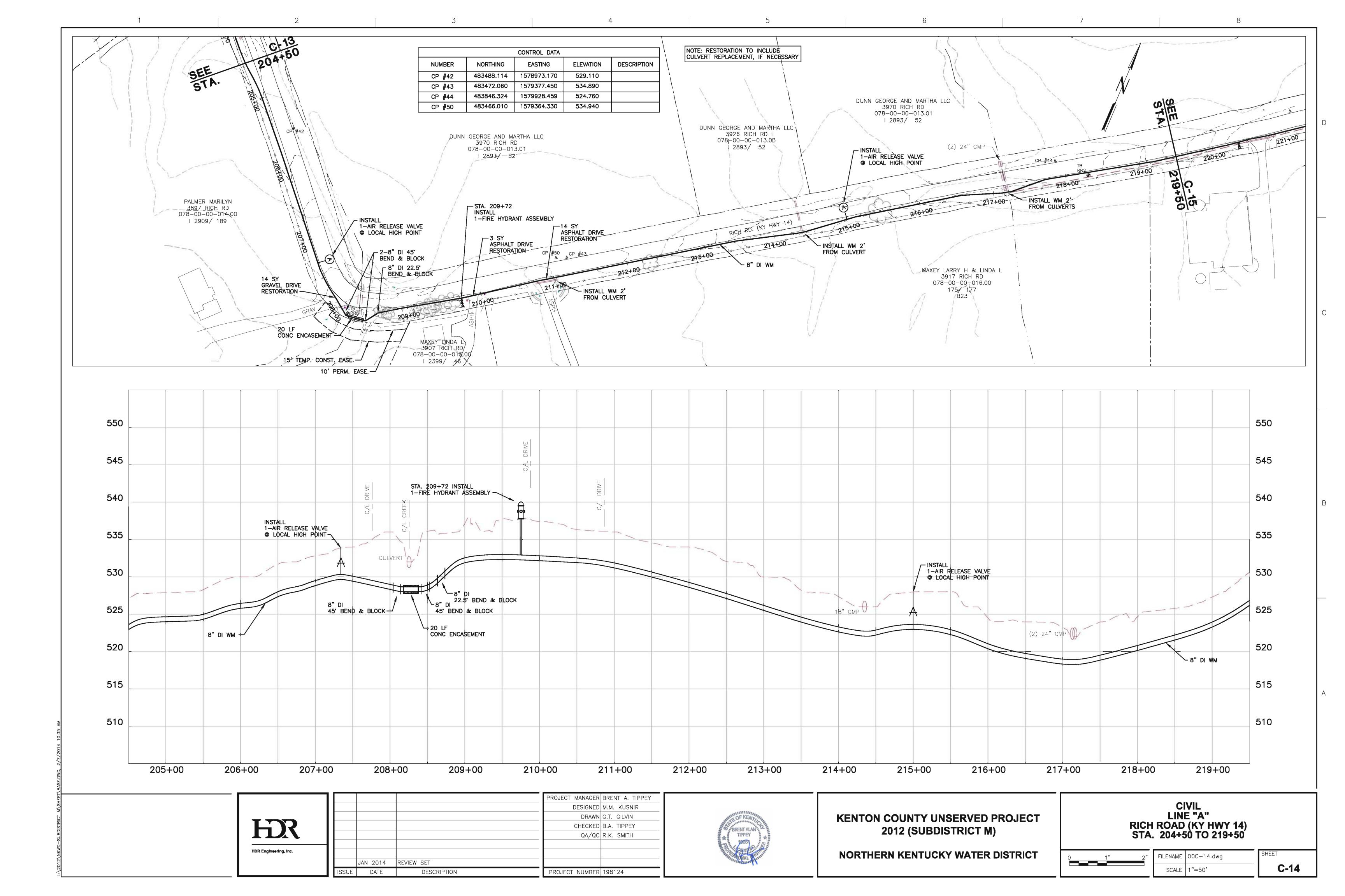


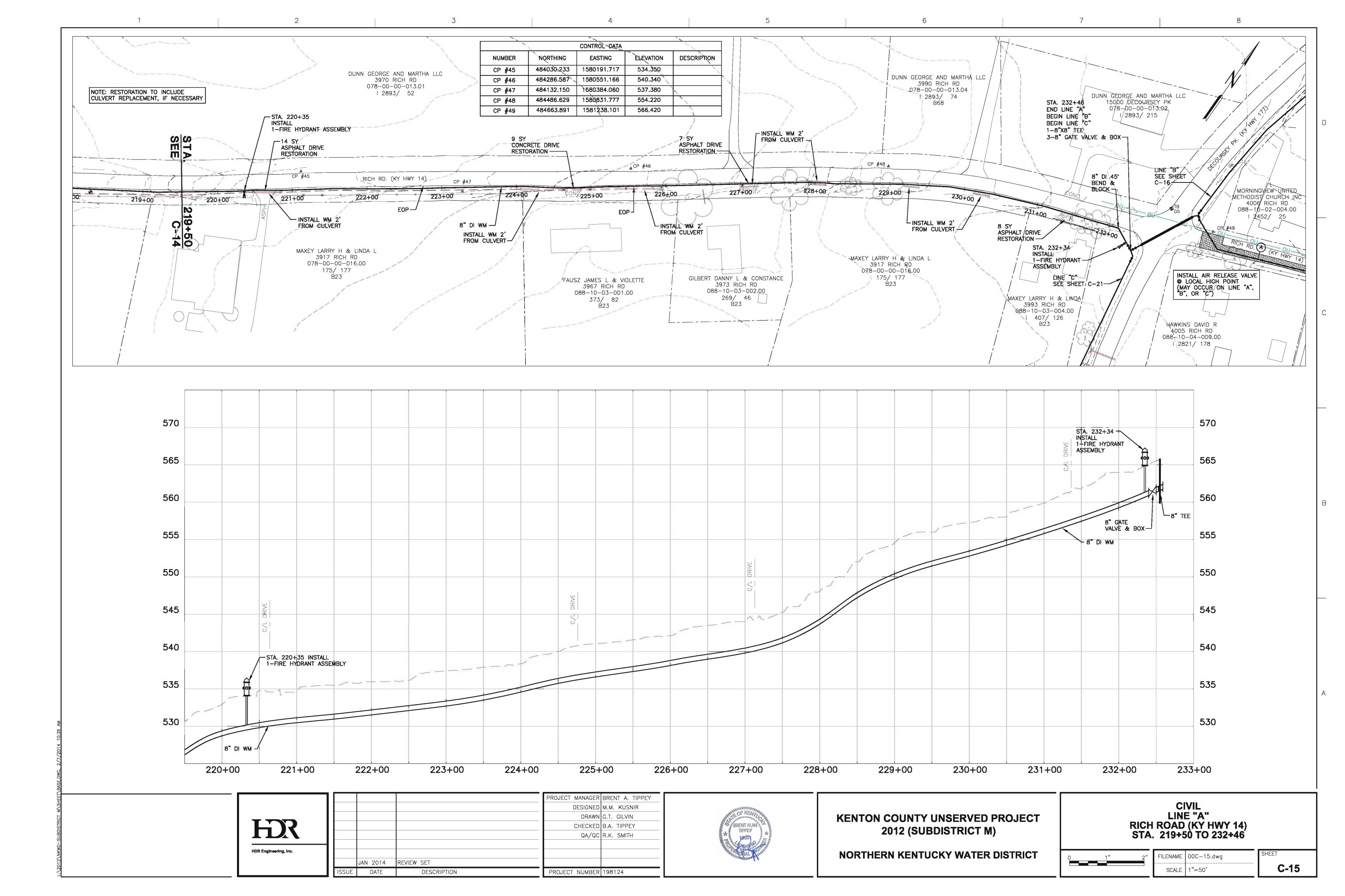


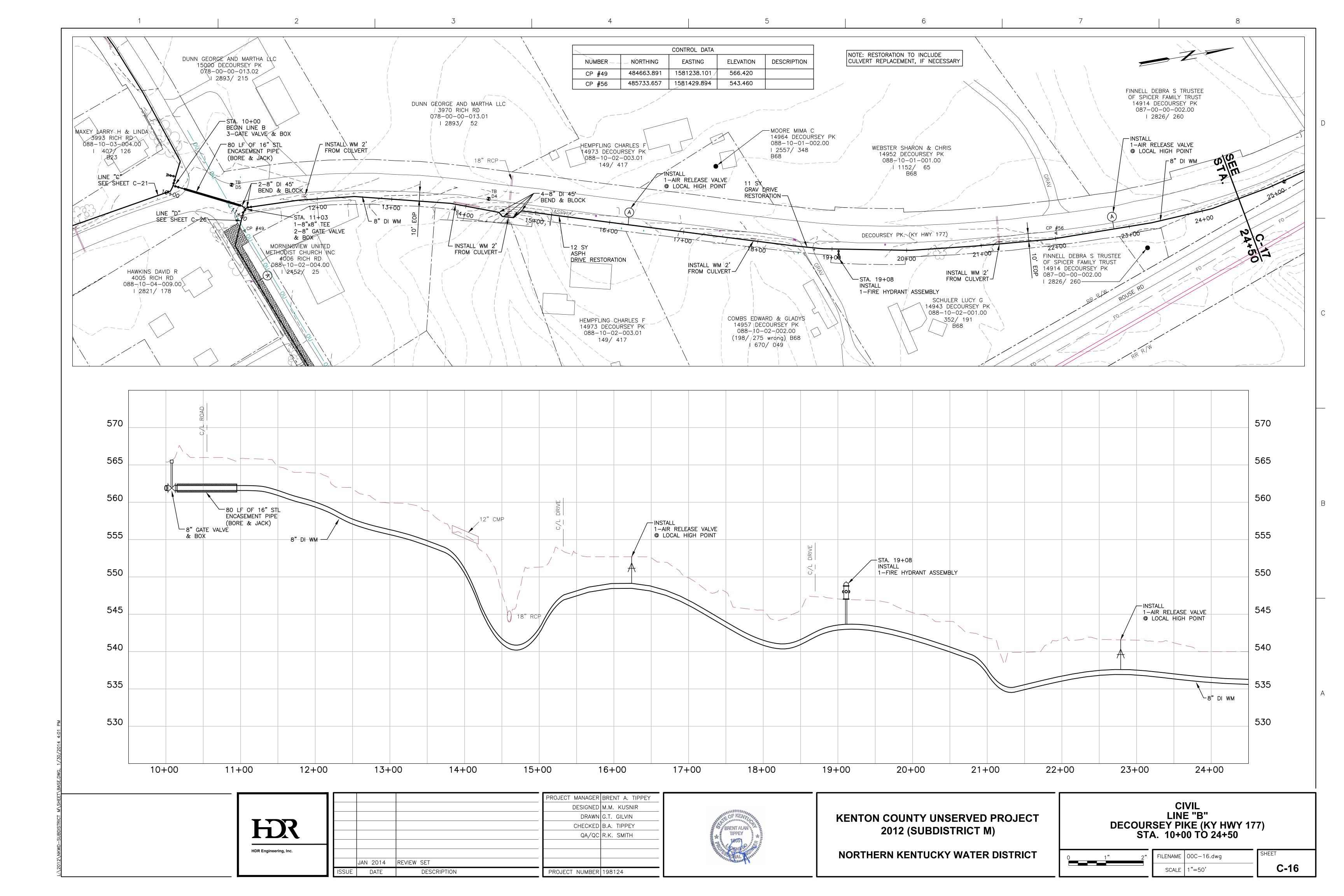


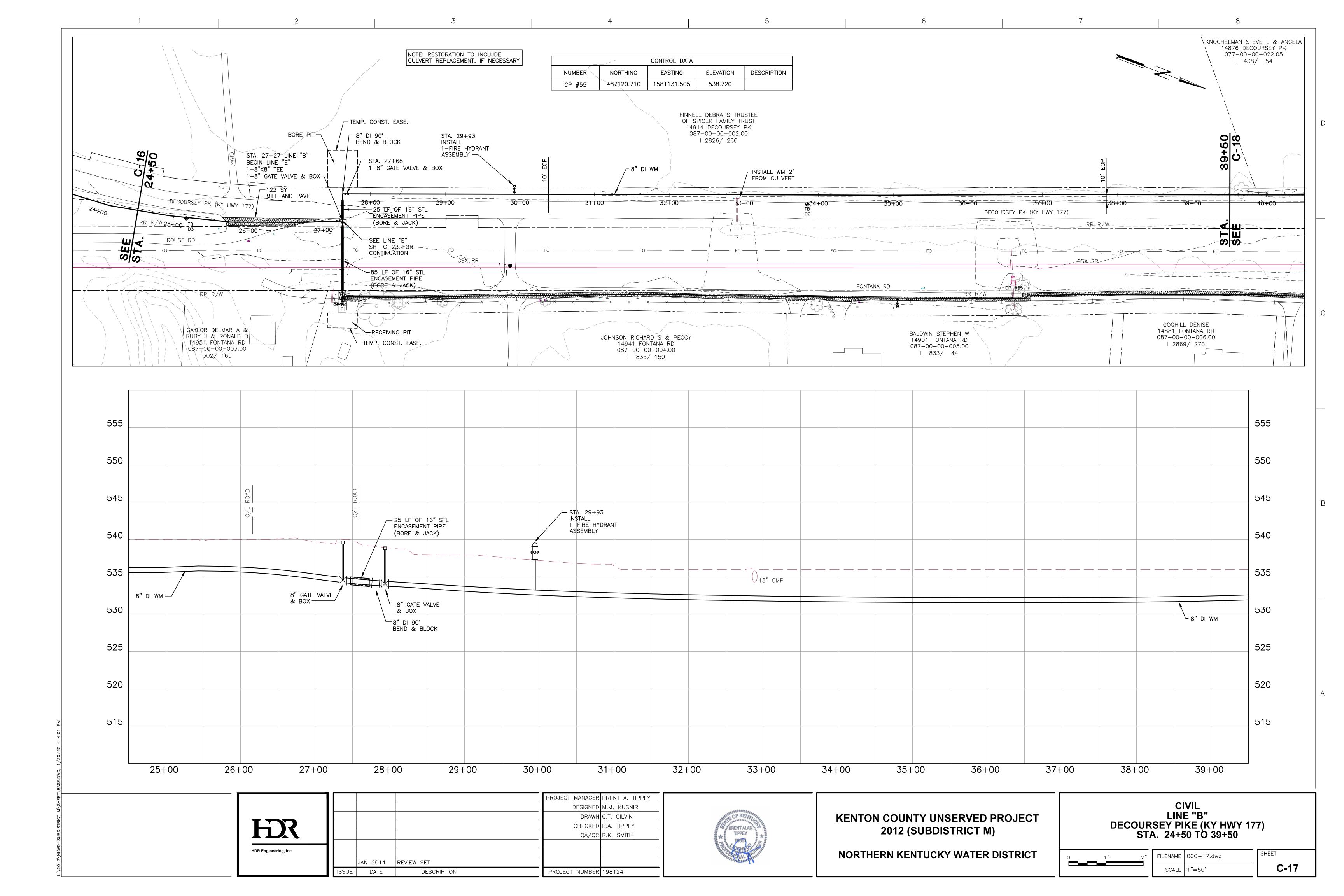


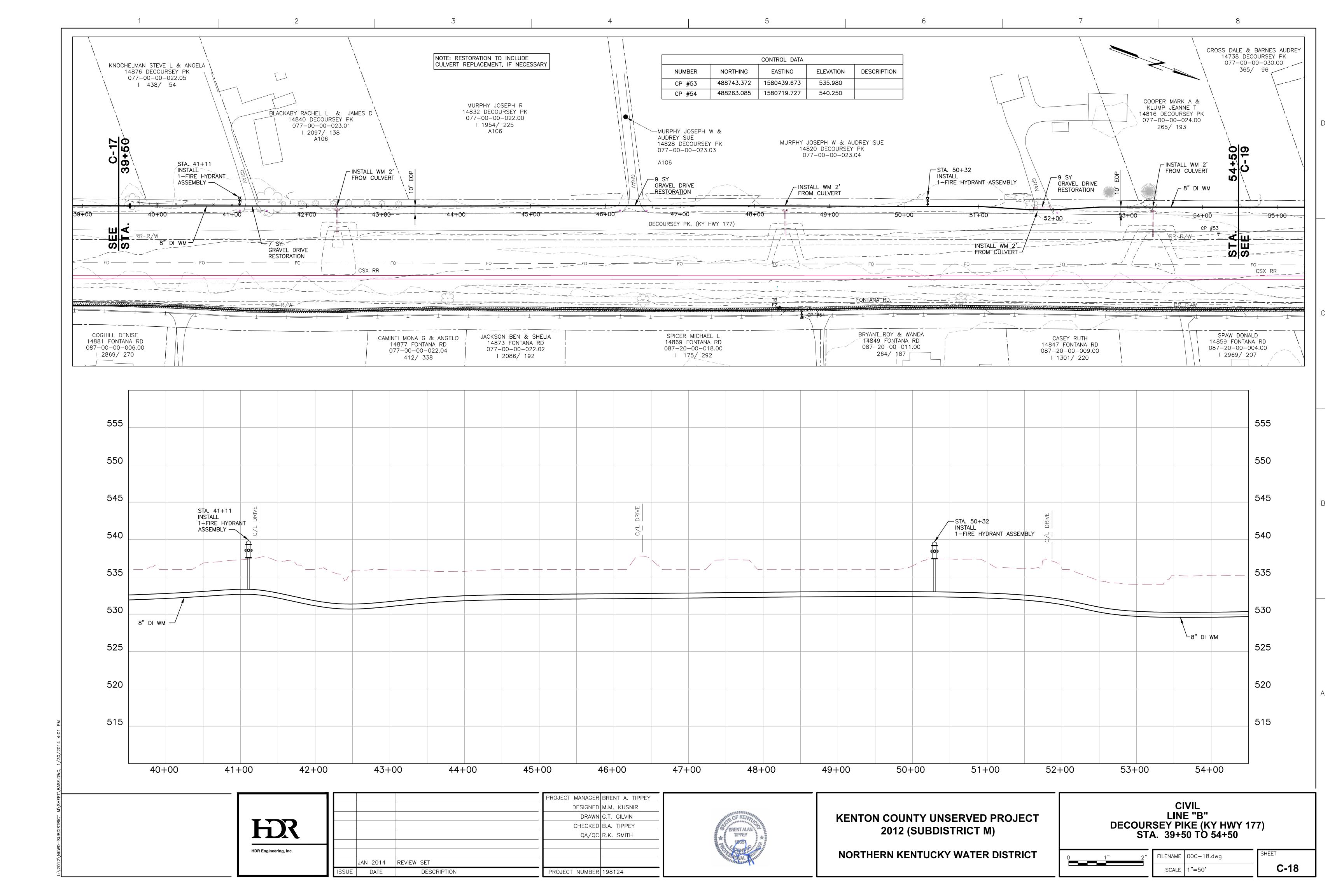


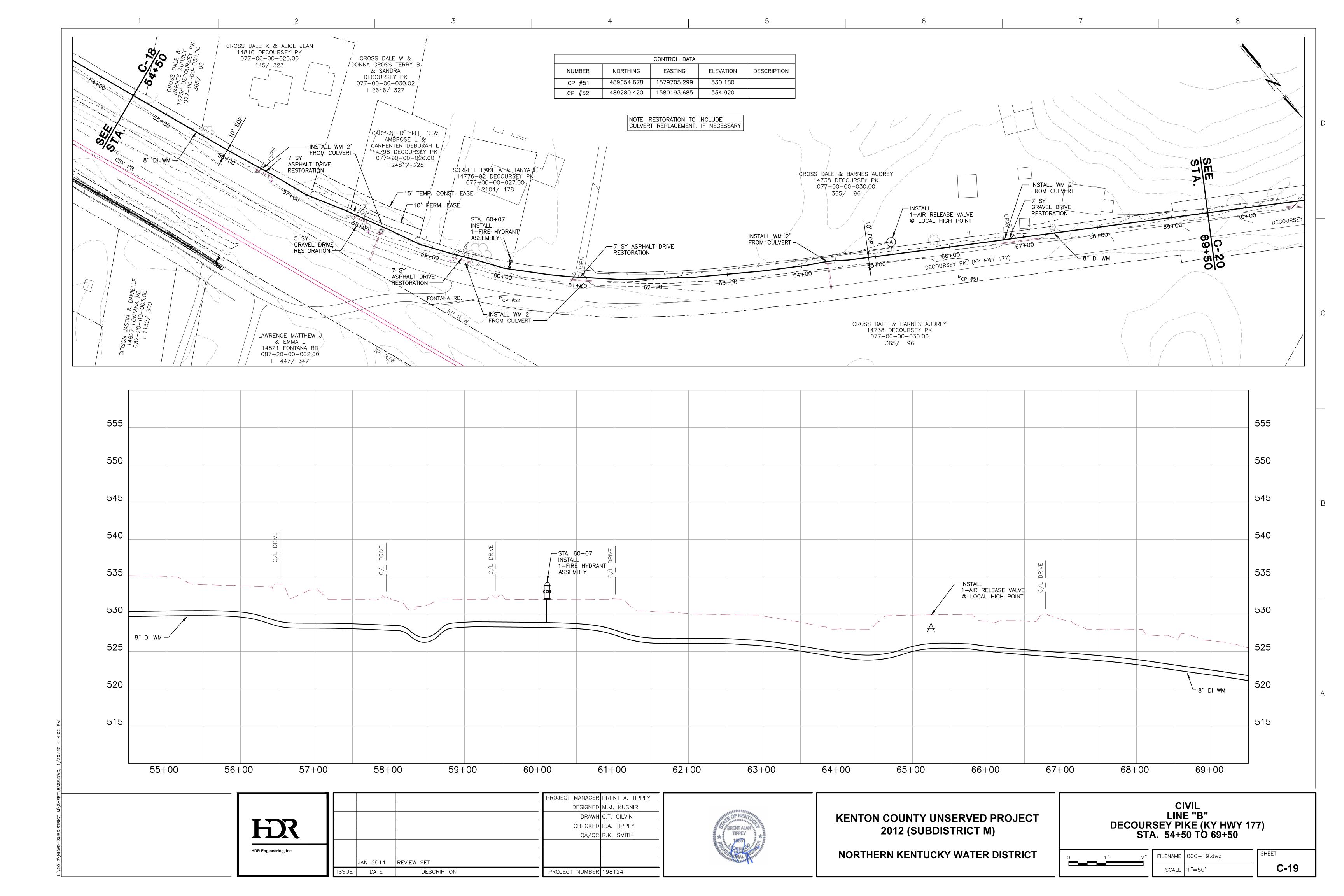


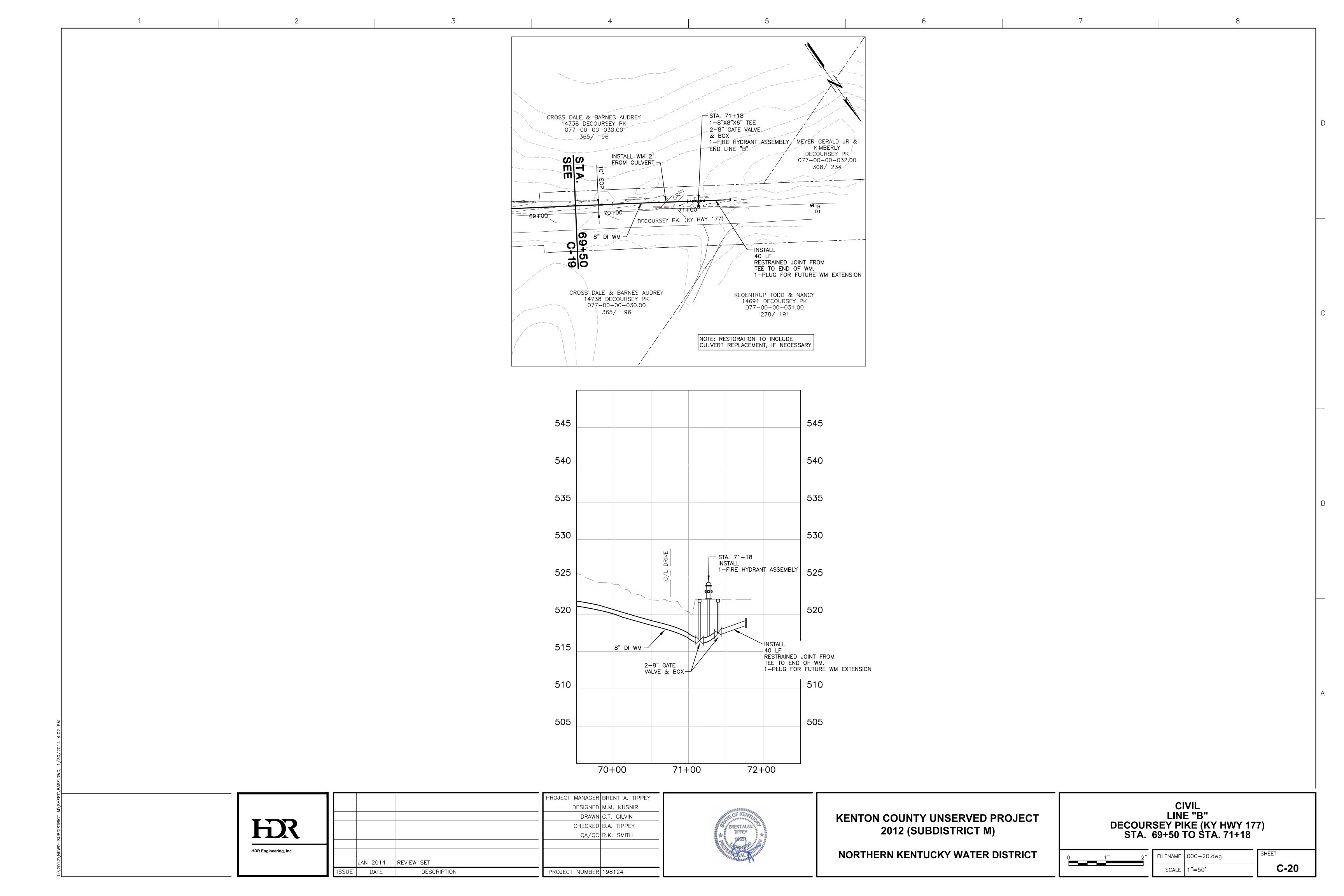


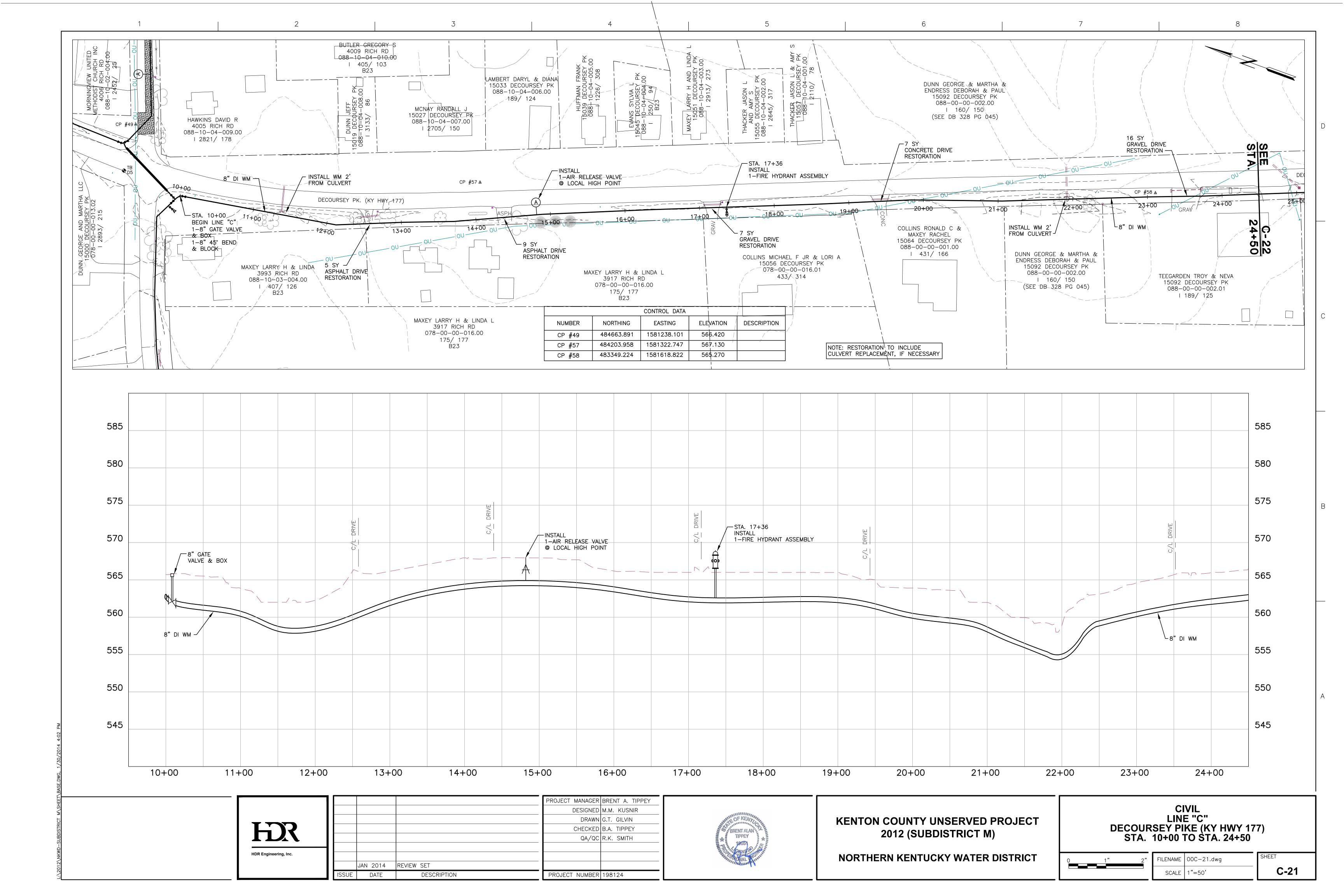


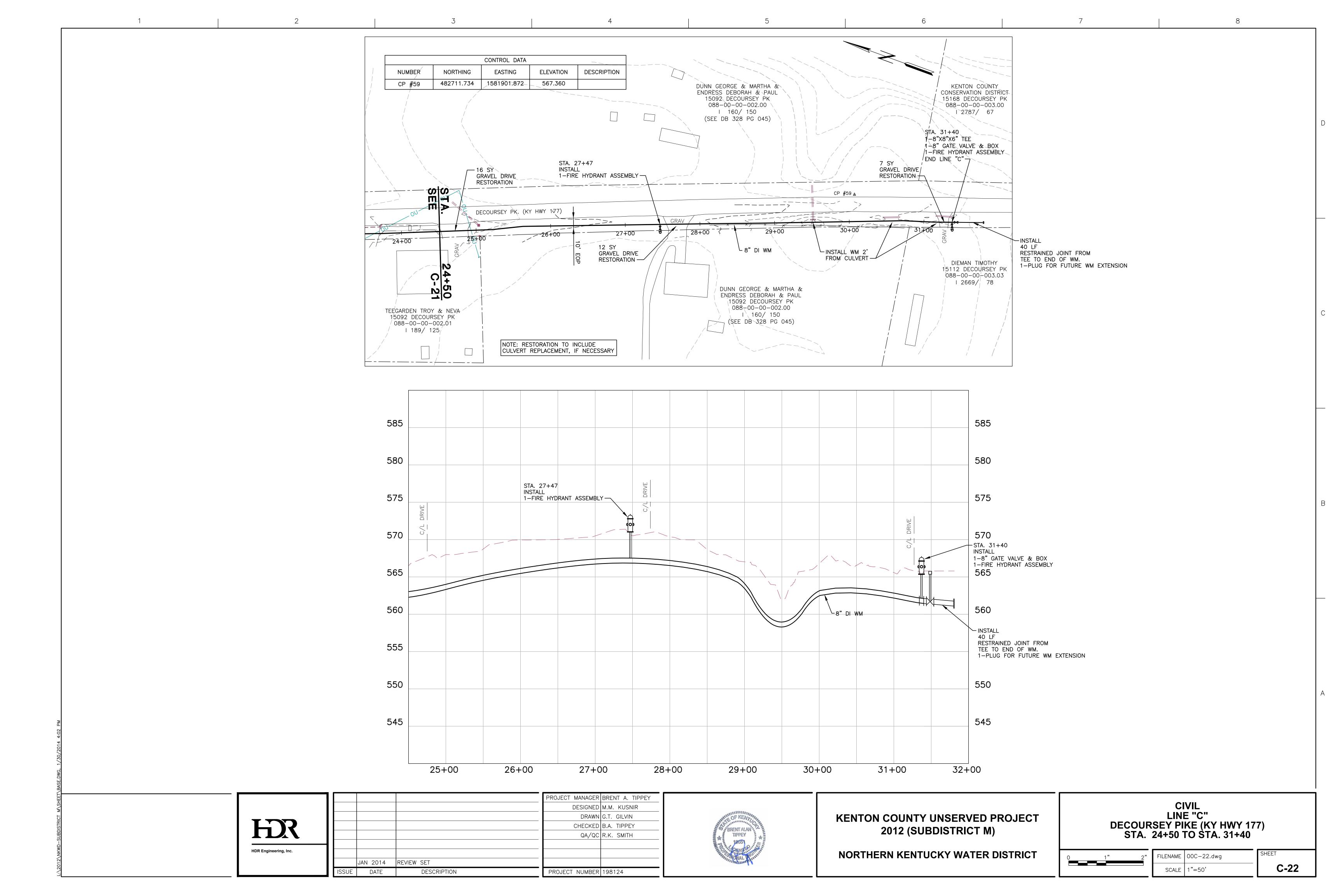


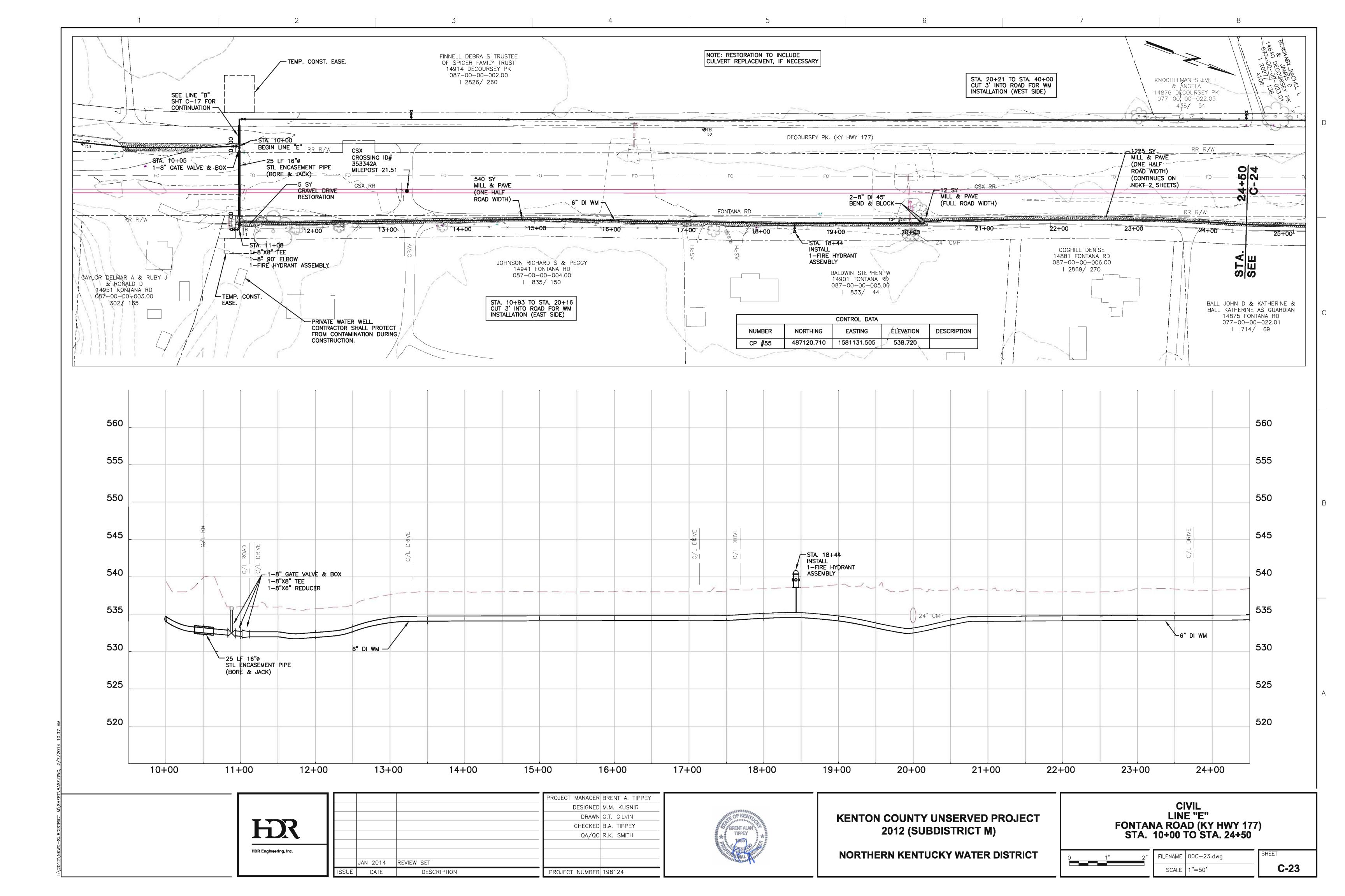


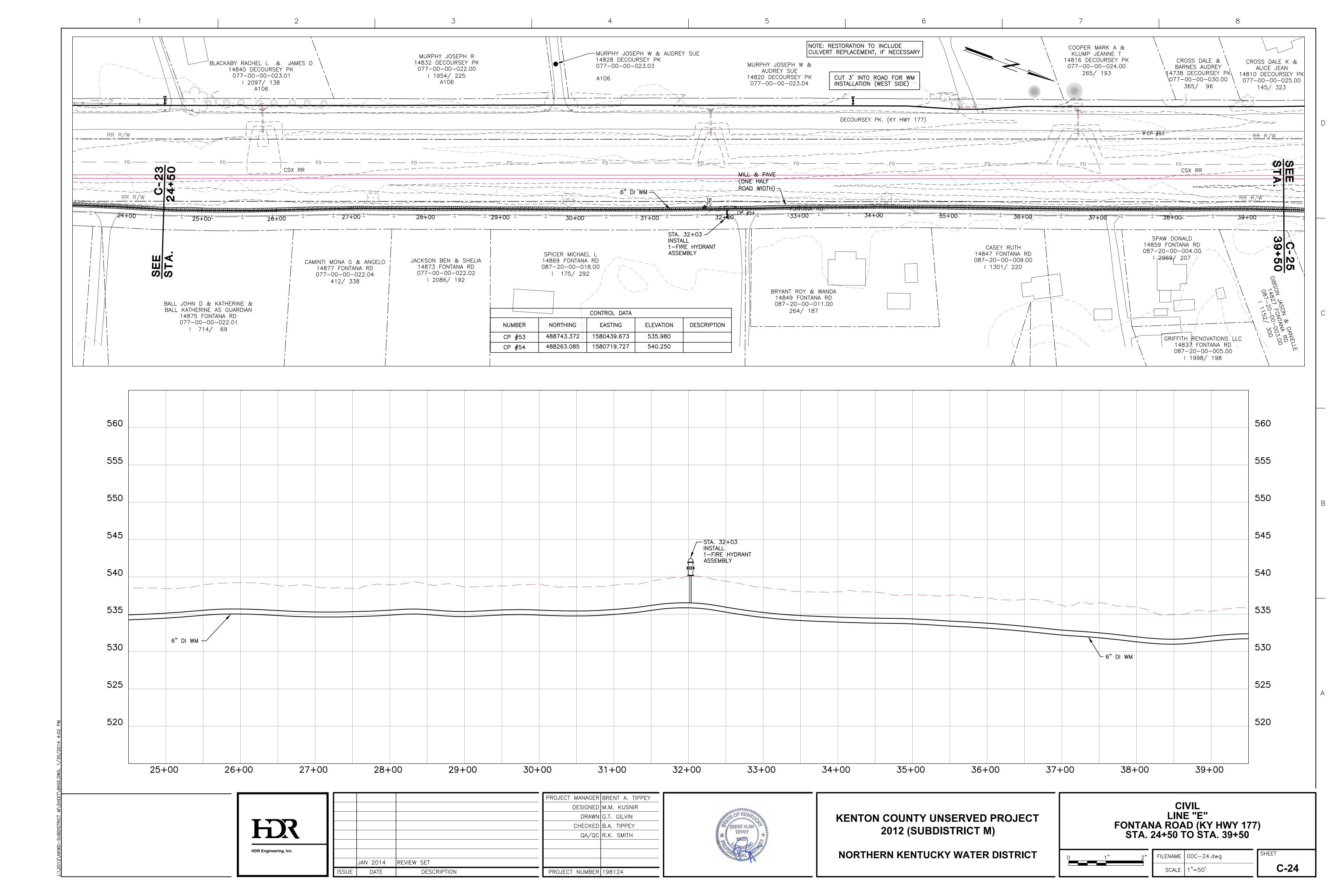


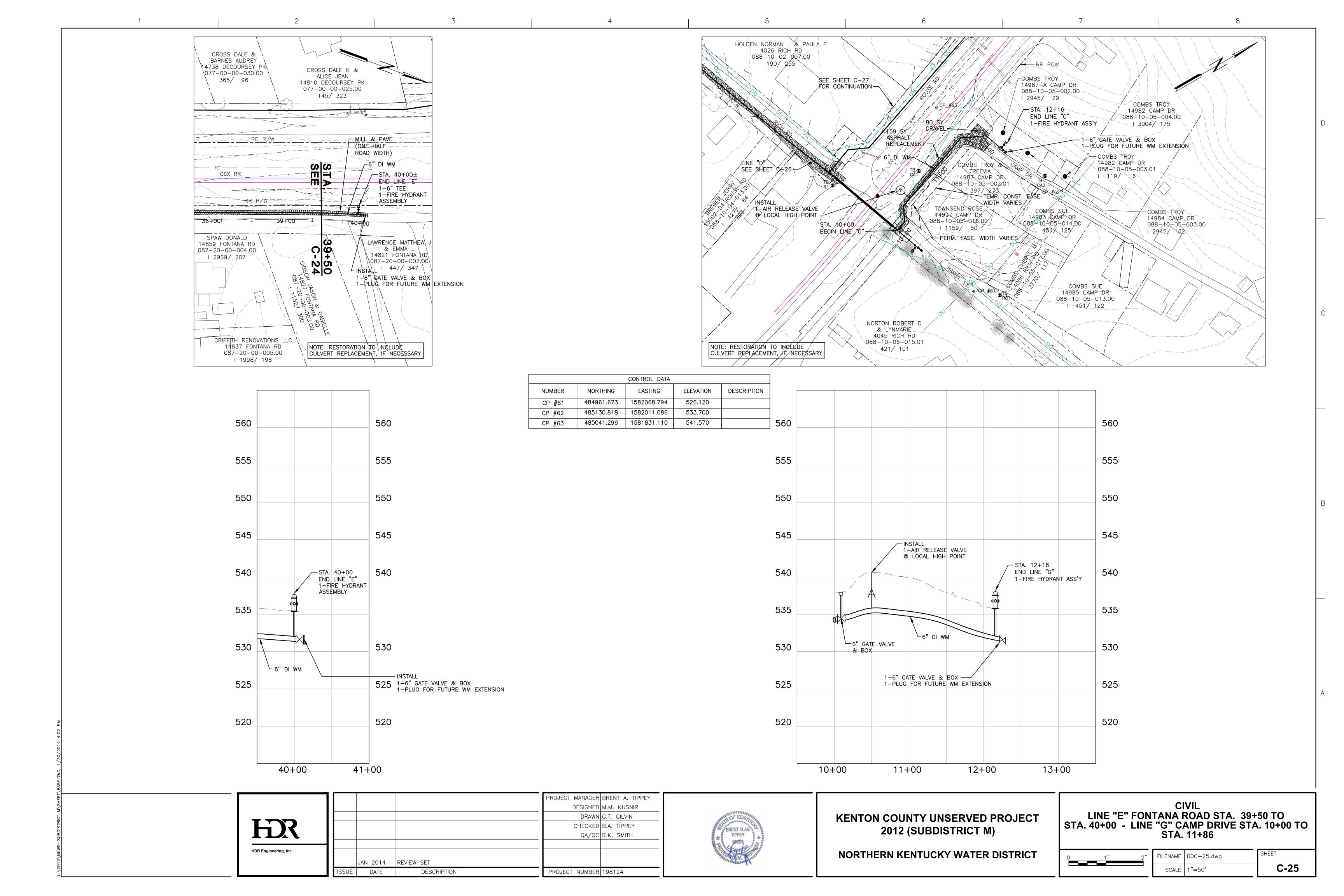


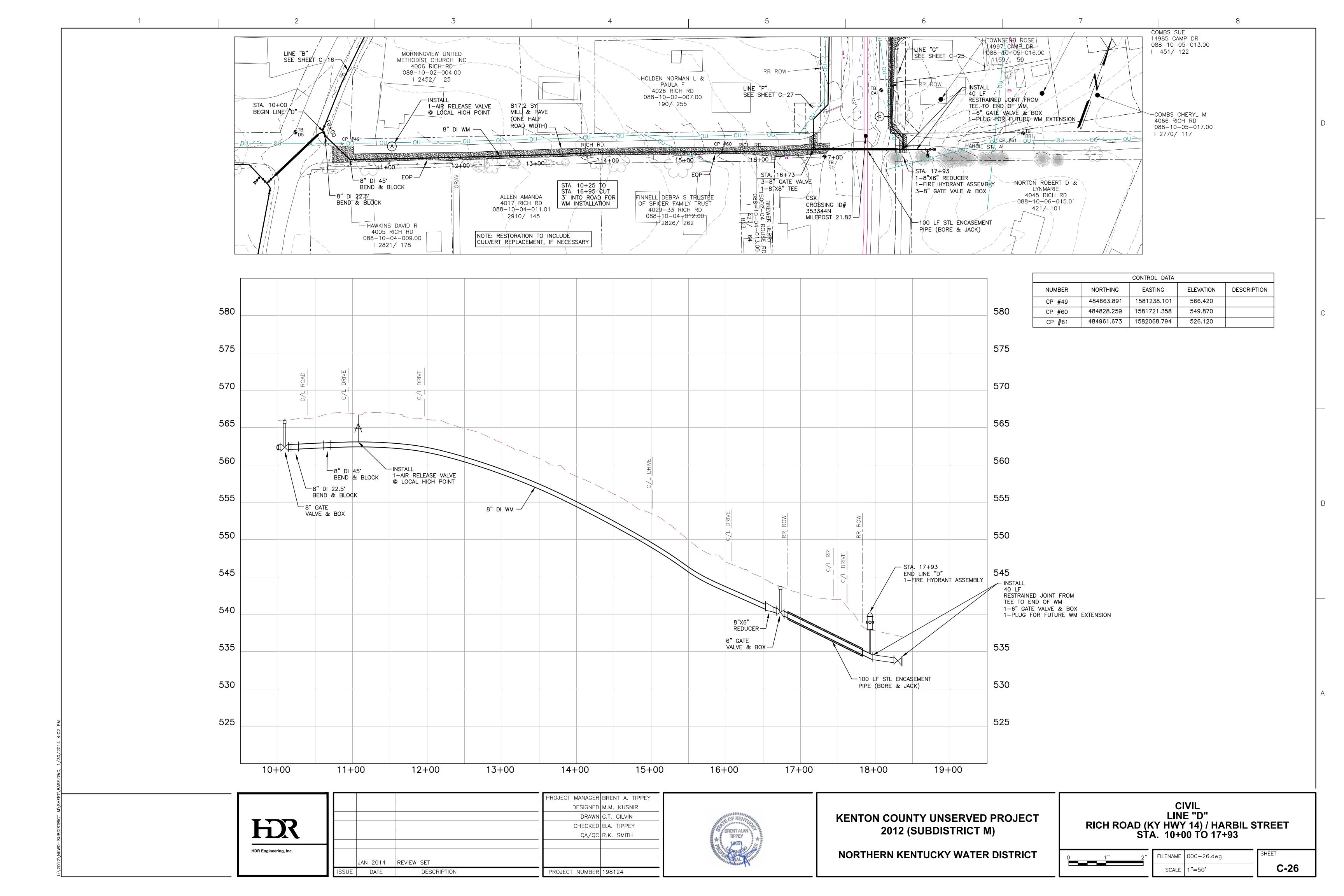


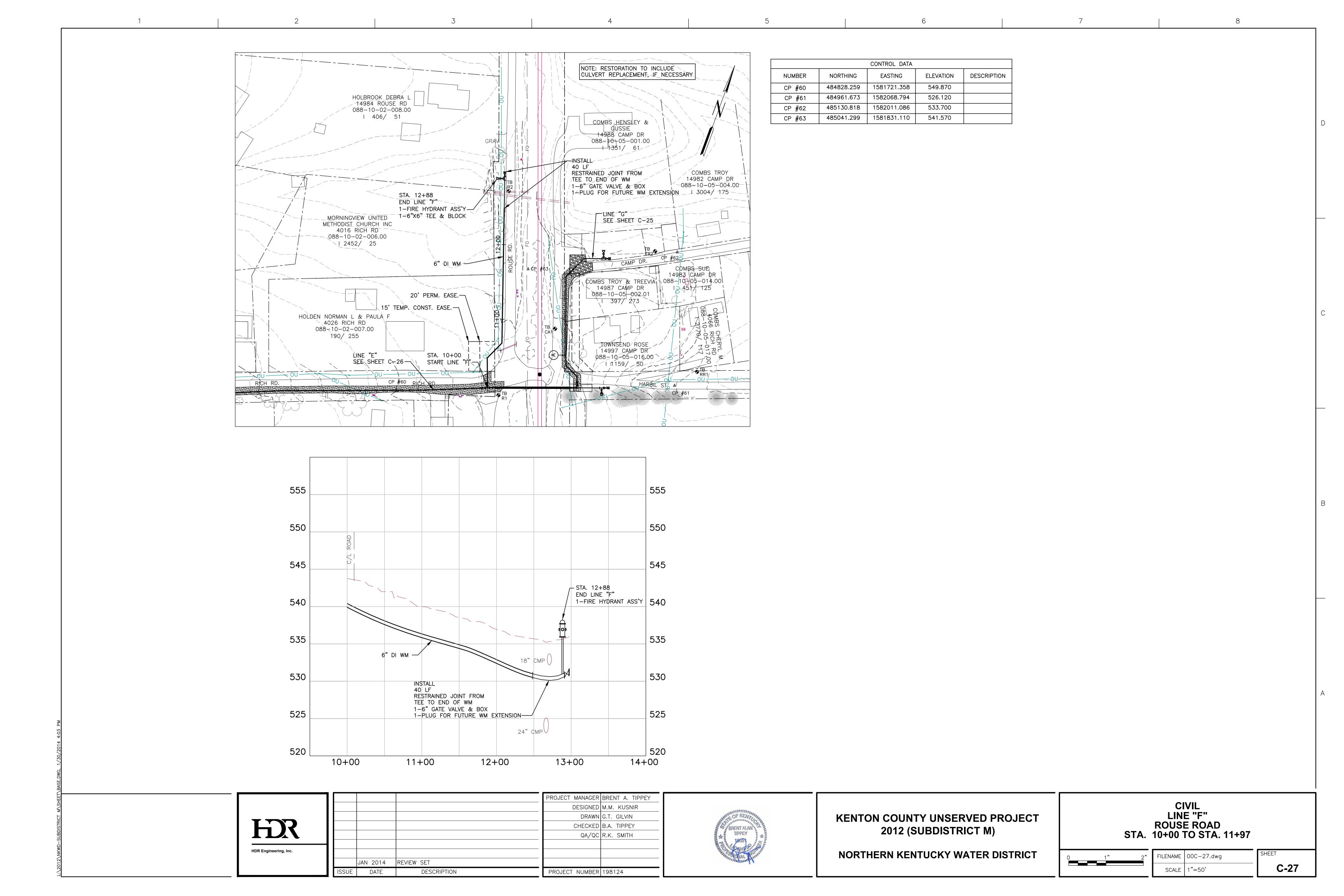




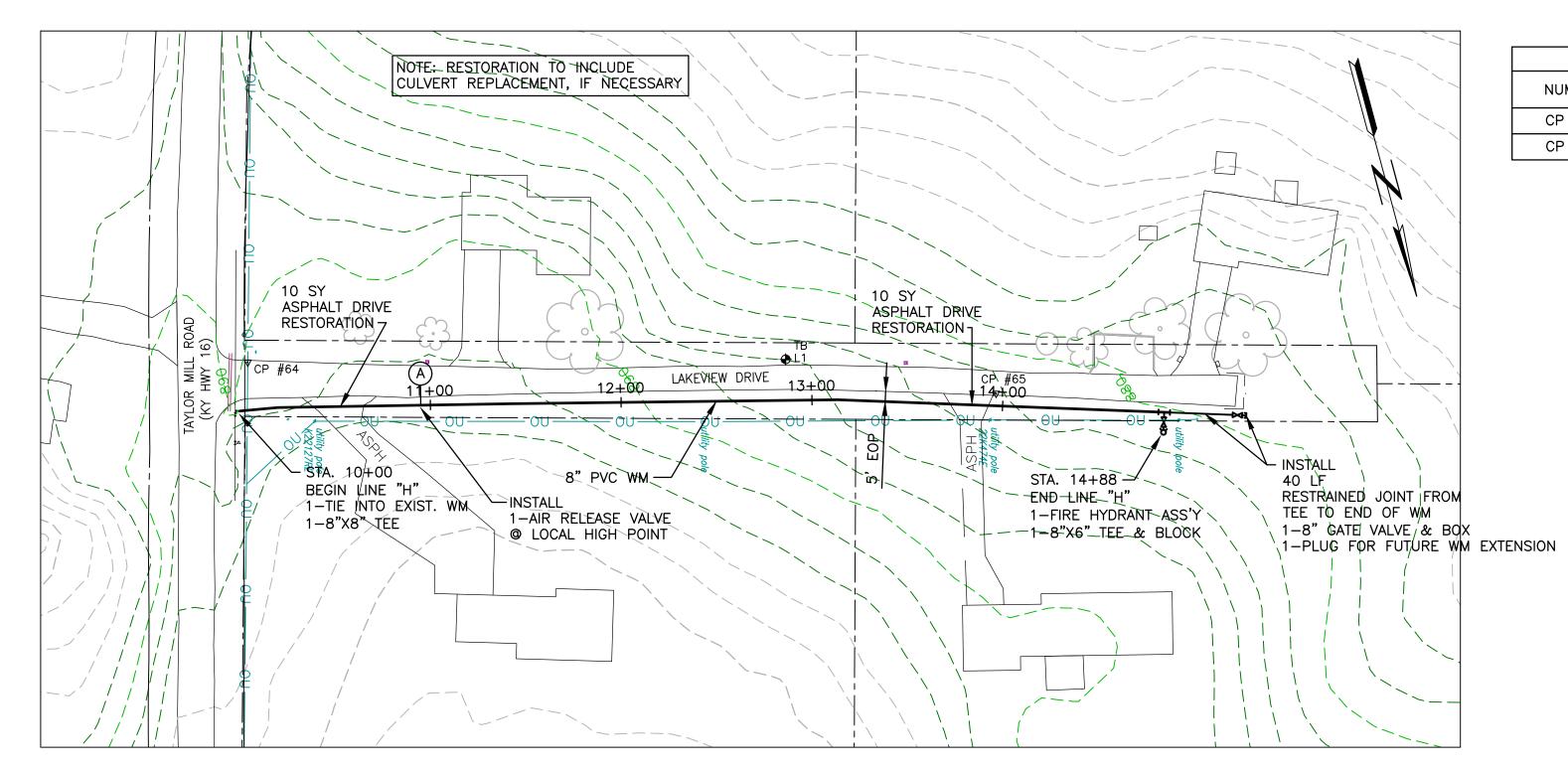




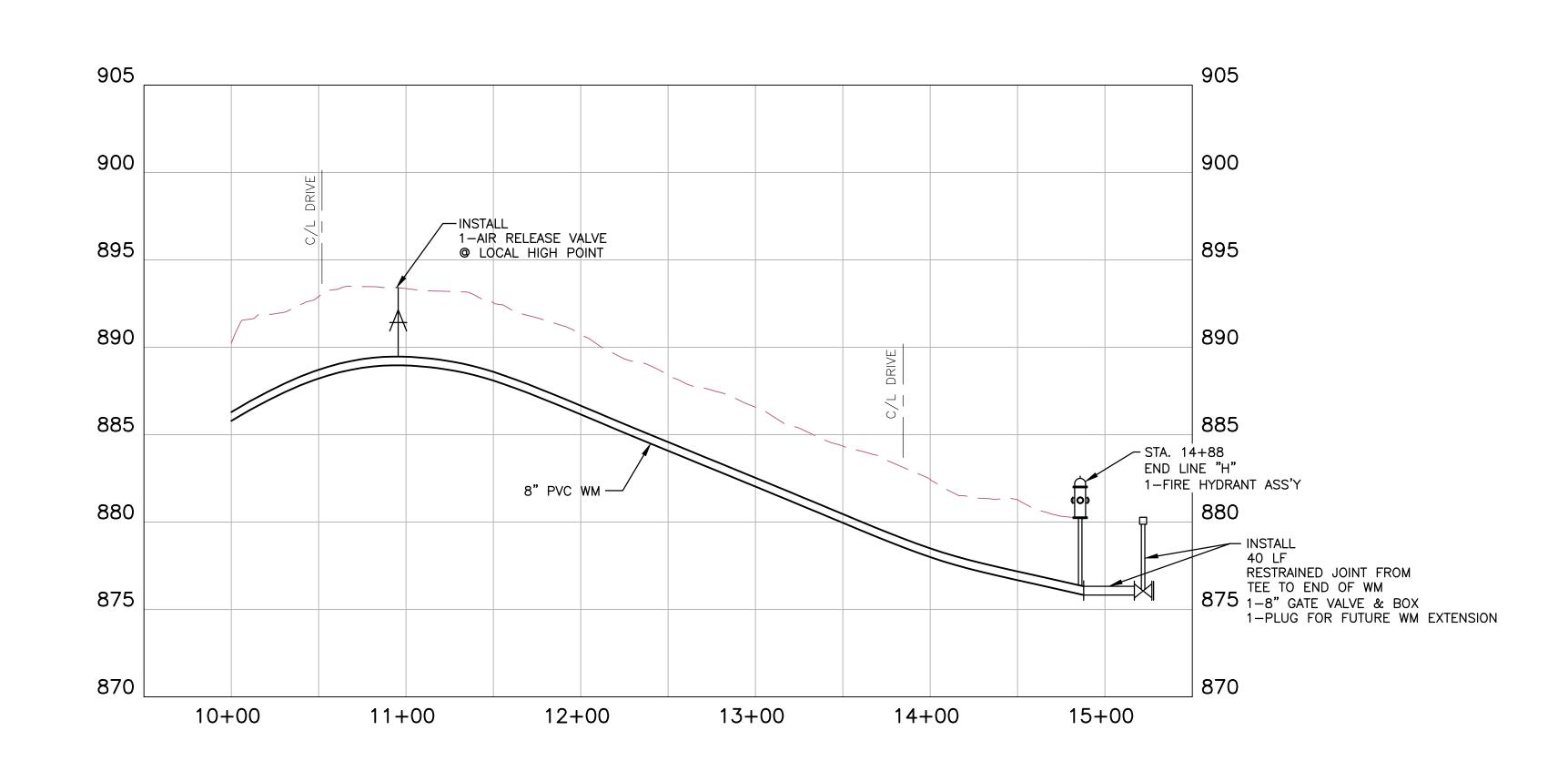




1 5 5



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KENTON COUNTY UNSERVED PROJECT 2012 (SUBDISTRICT M)

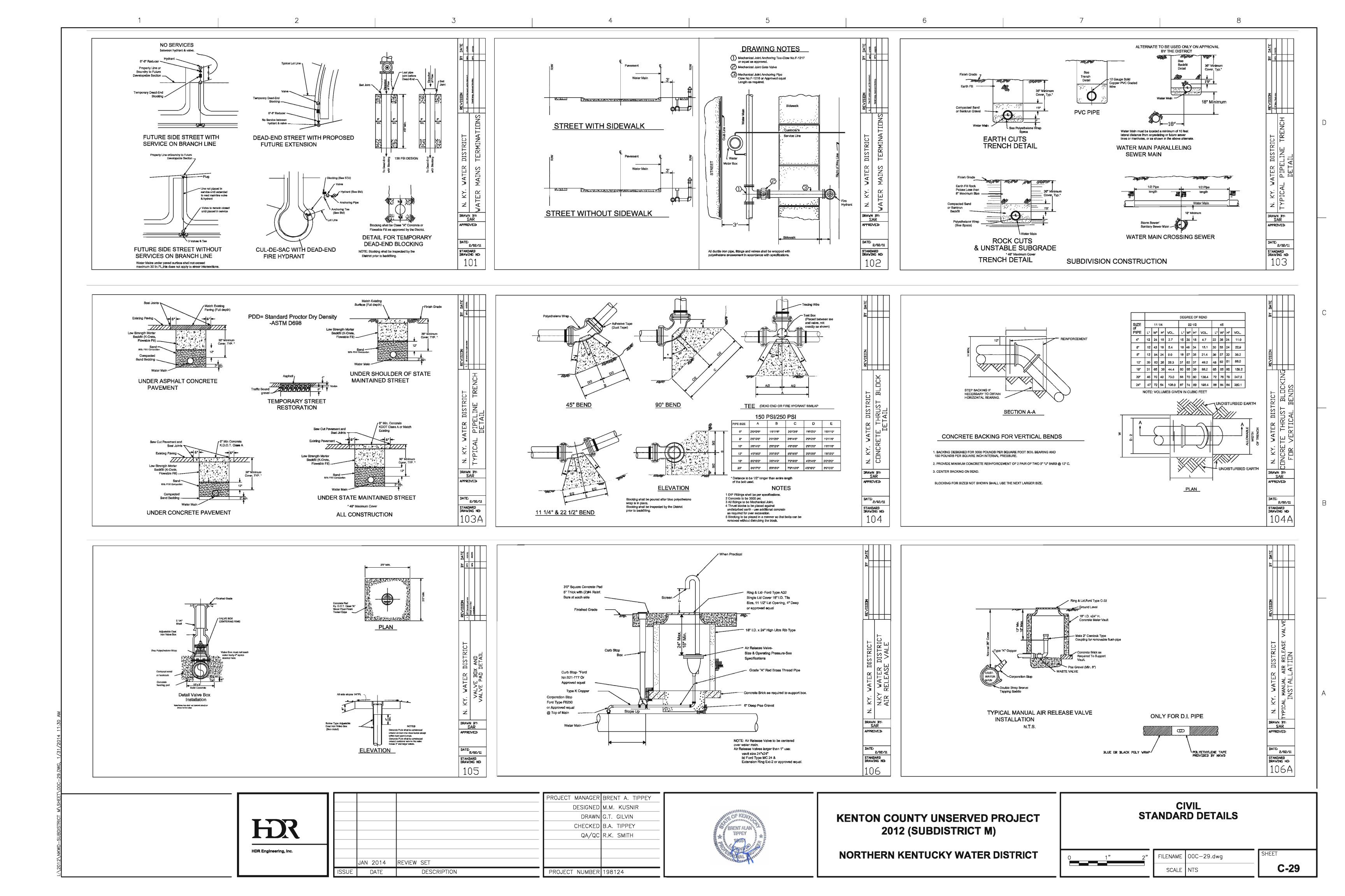
NORTHERN KENTUCKY WATER DISTRICT

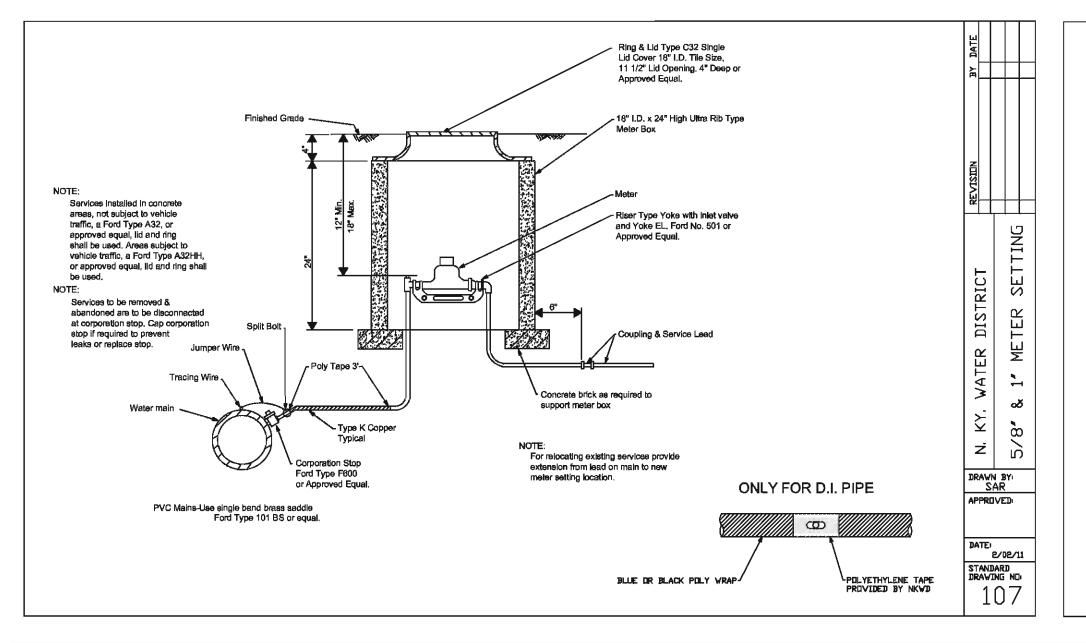
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LINE "H"
LAKEVIEW DRIVE
STA. 10+00 TO STA. 14+88

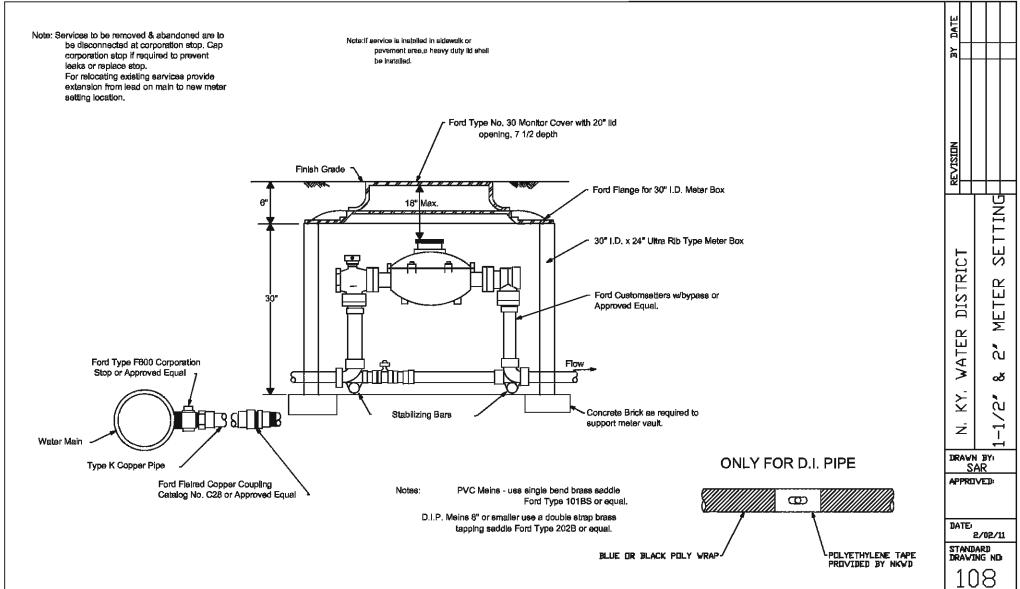
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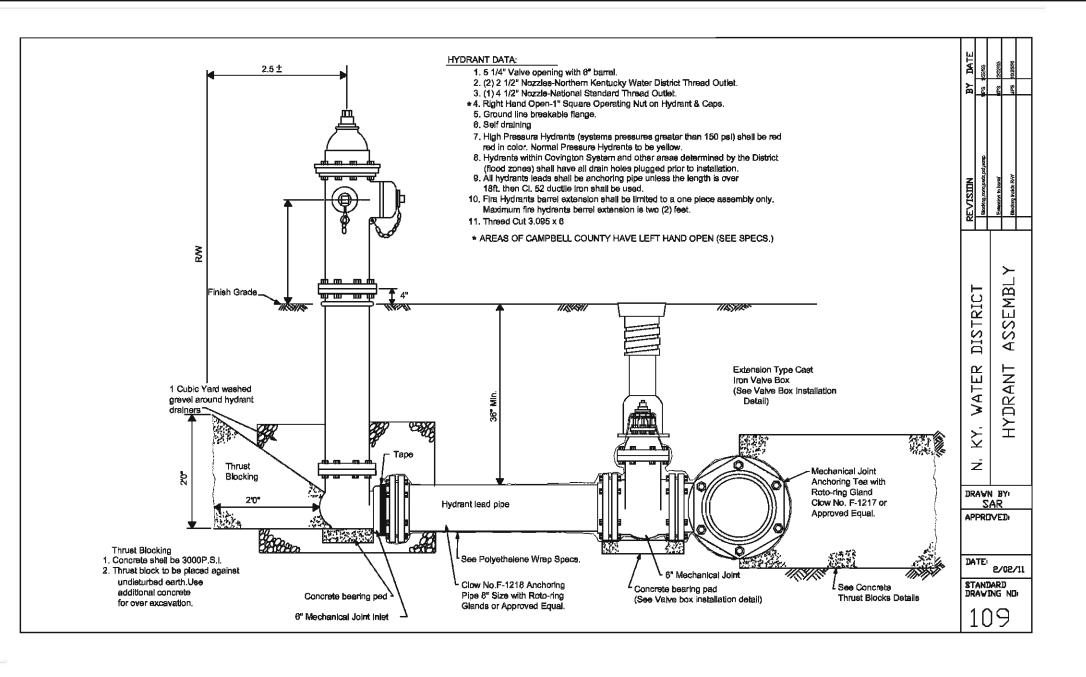
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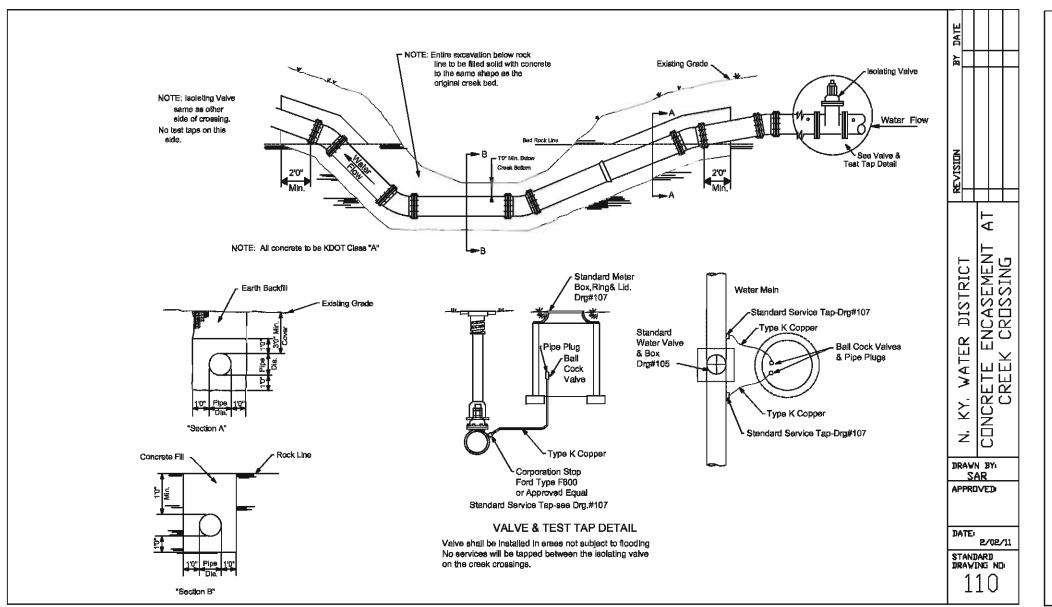
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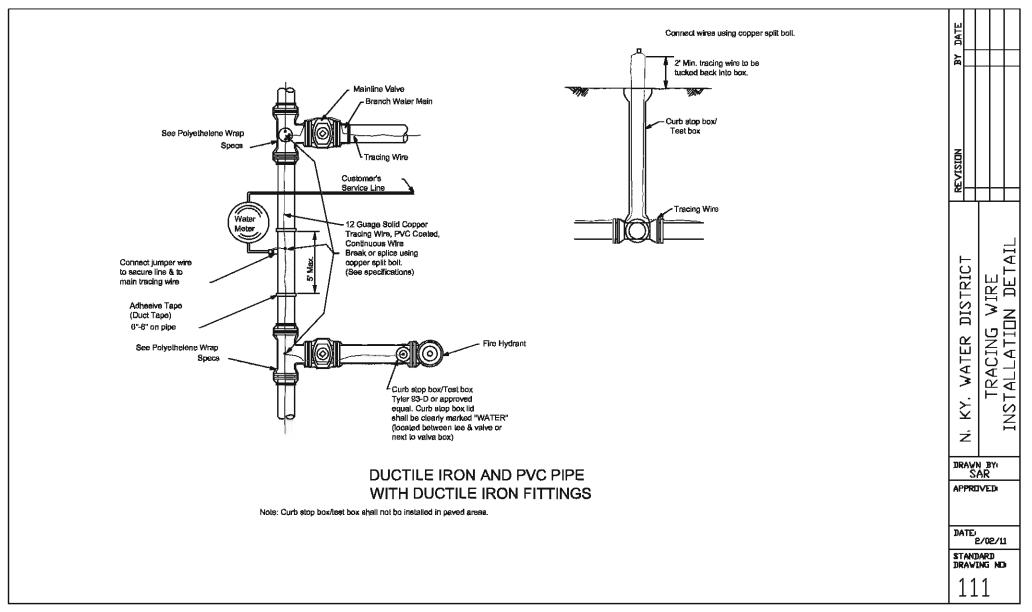


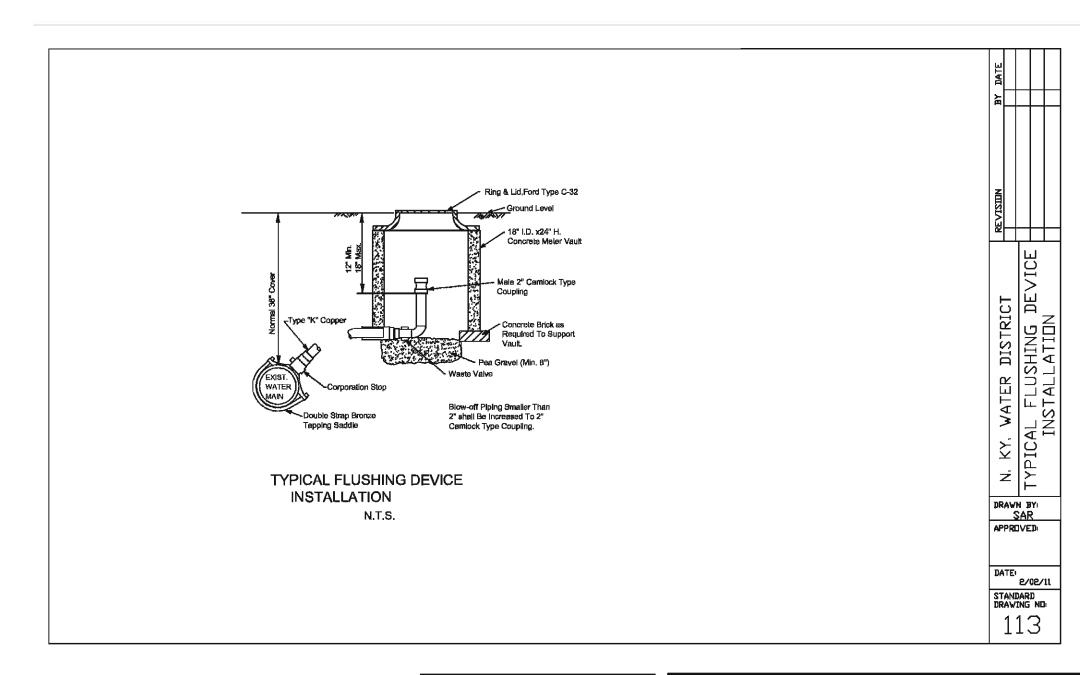


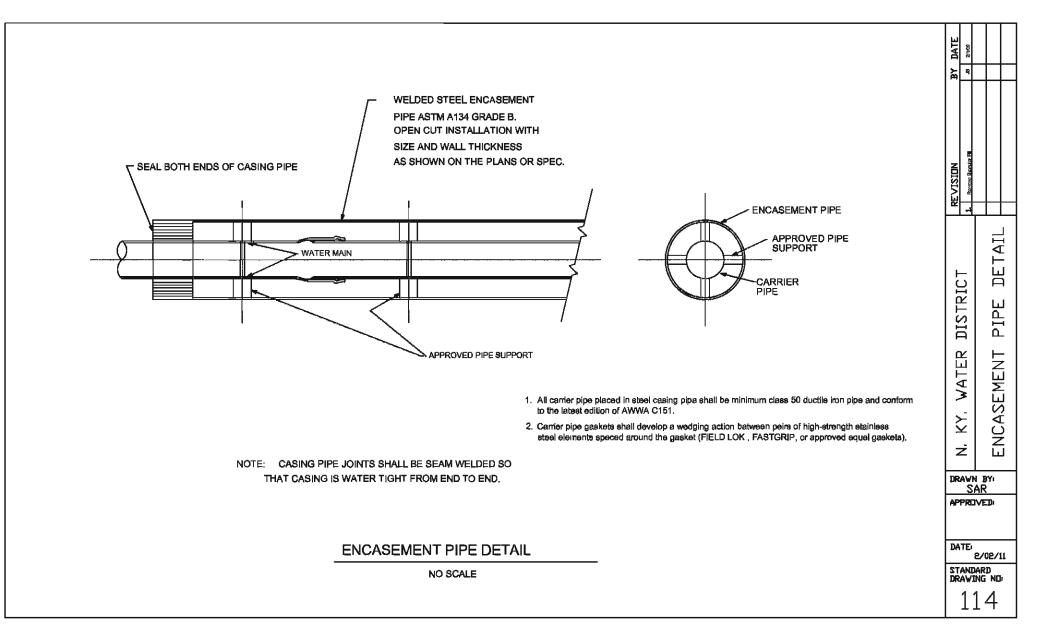




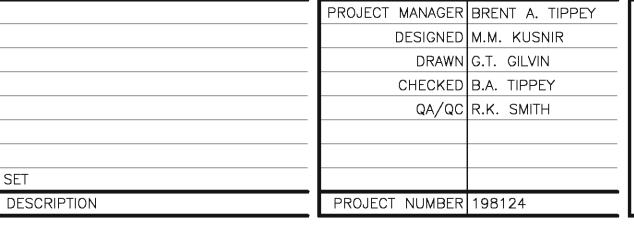








HIX			
-			
HDR Engineering, Inc.			
		JAN 2014	REVIEW SET
	ISSUE	DATE	DESCRIPT





## KENTON COUNTY UNSERVED PROJECT 2012 (SUBDISTRICT M)

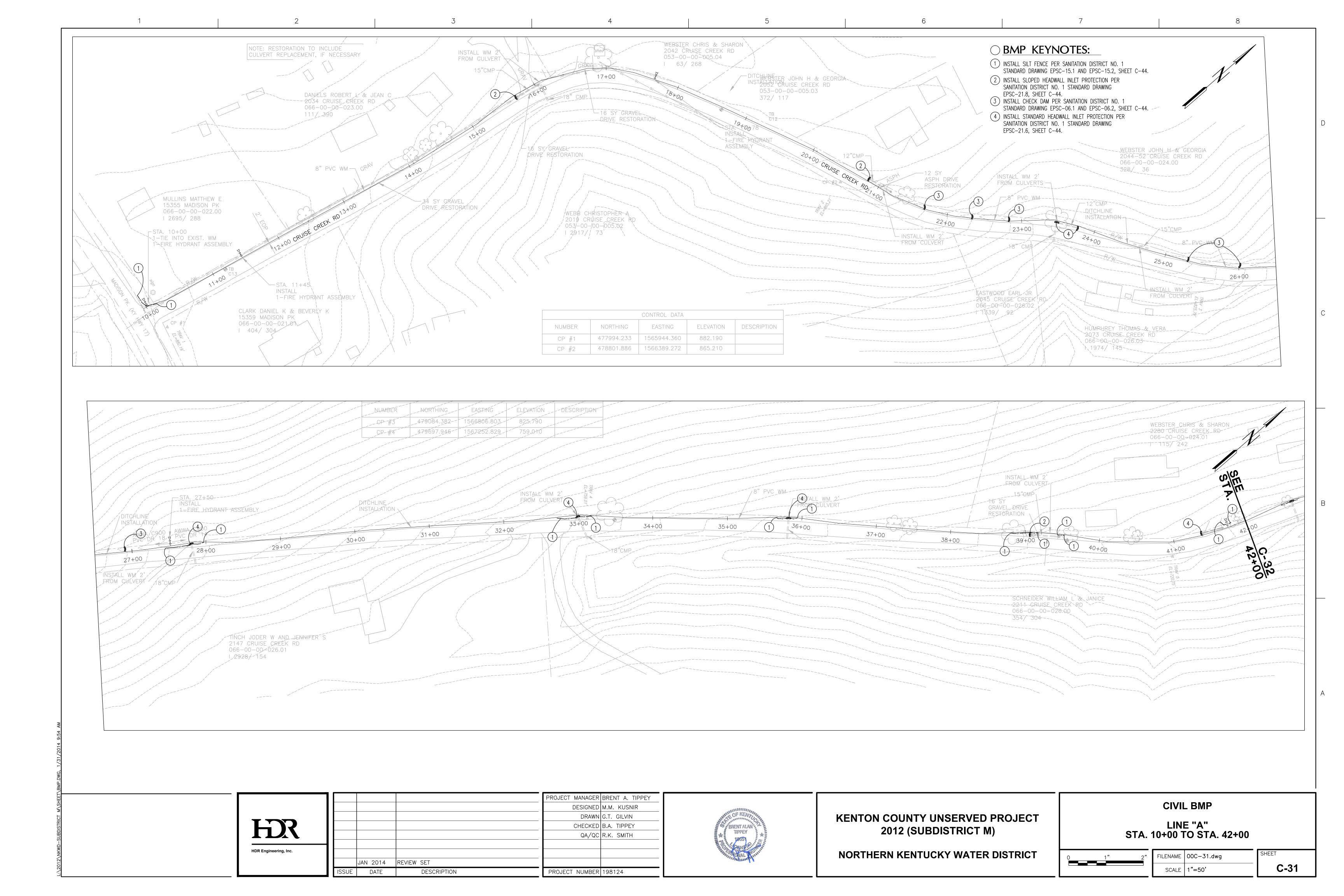
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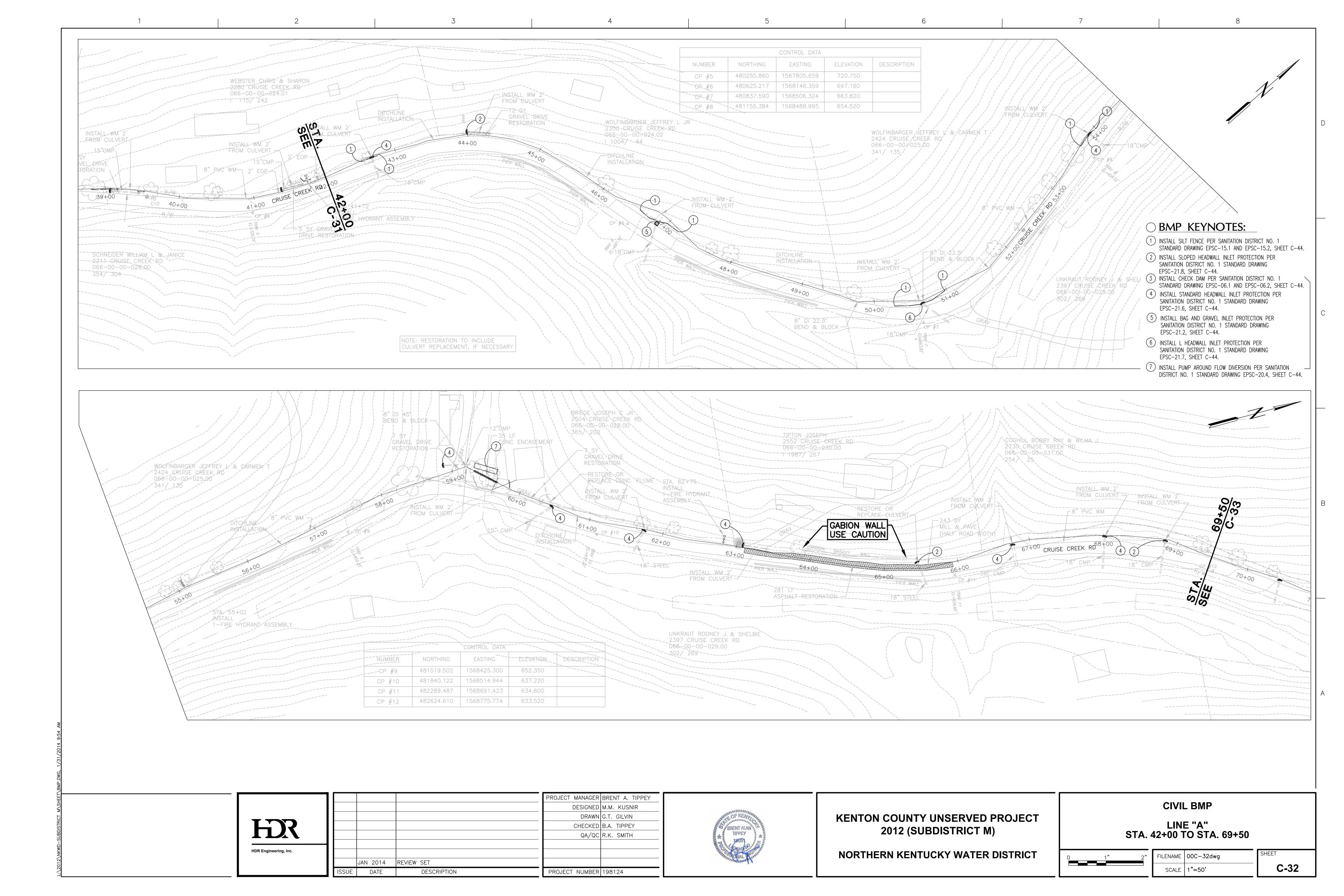
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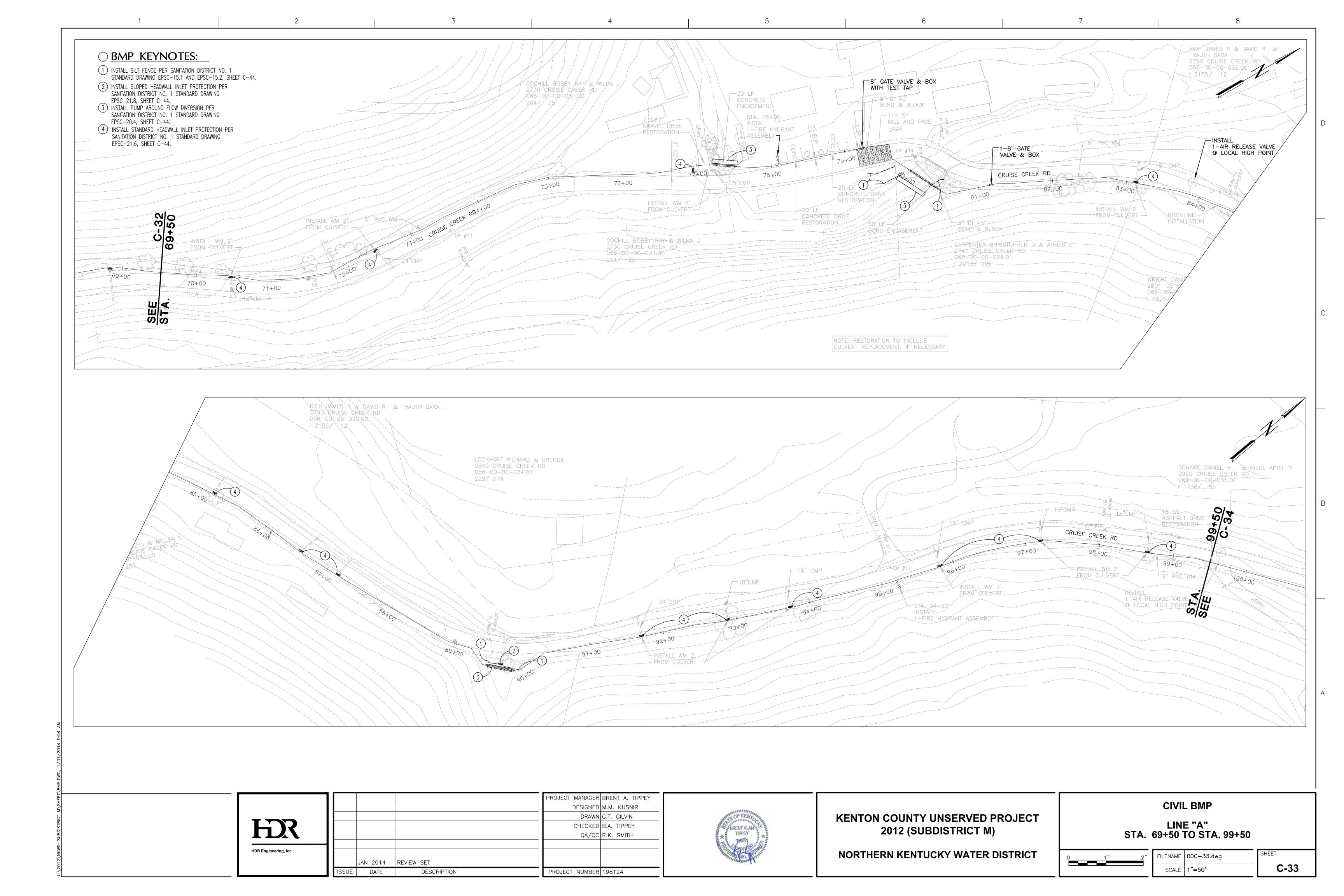
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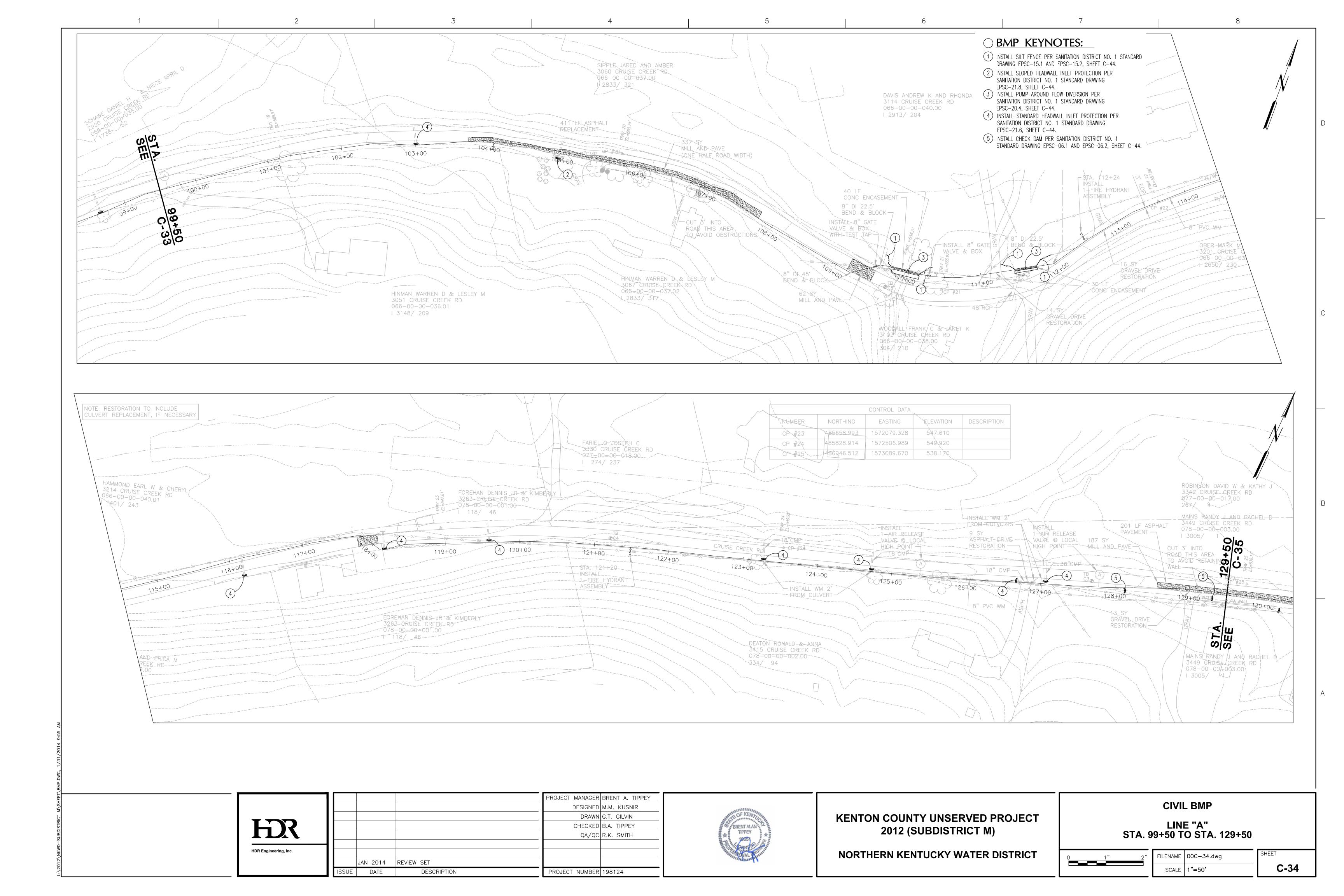
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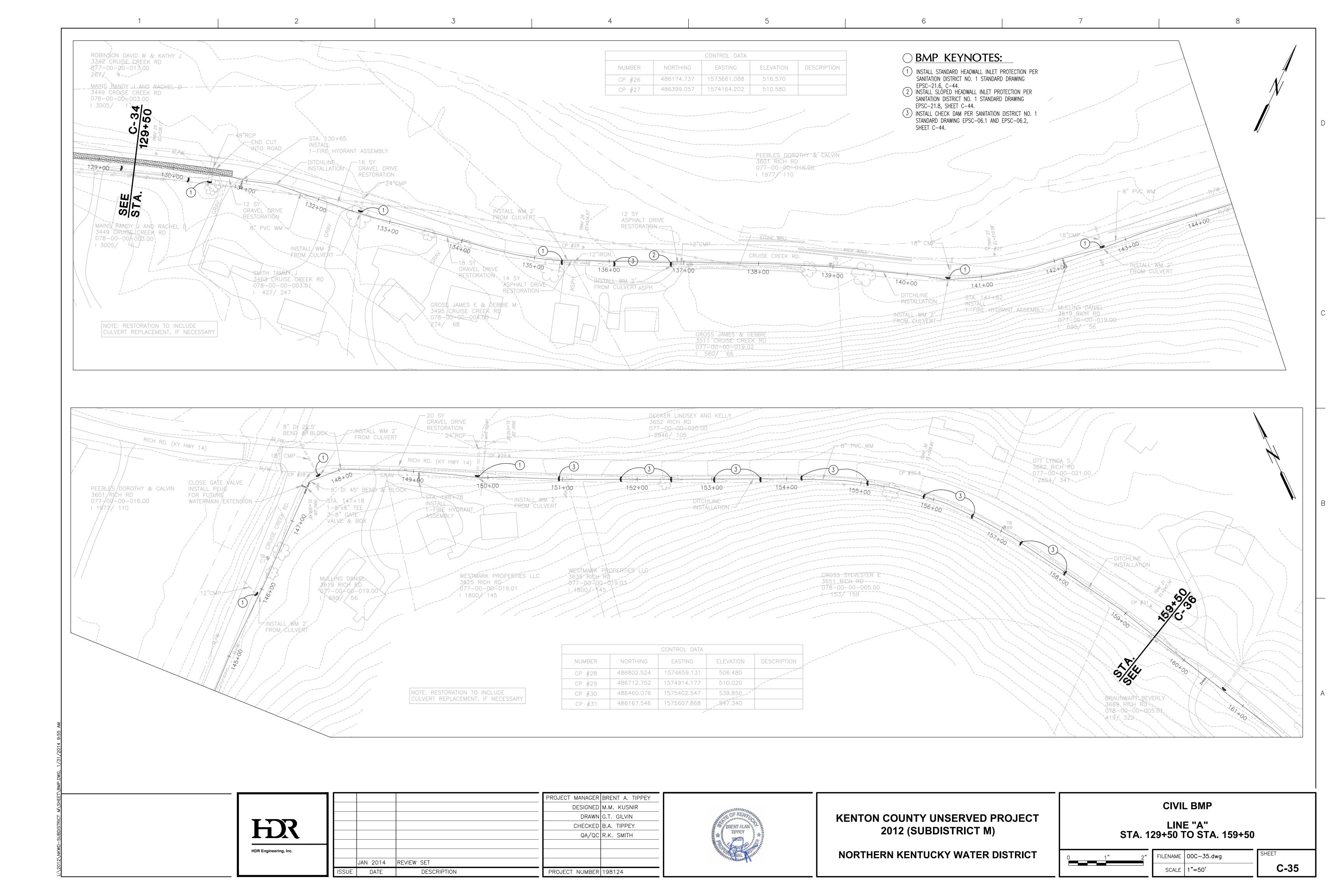
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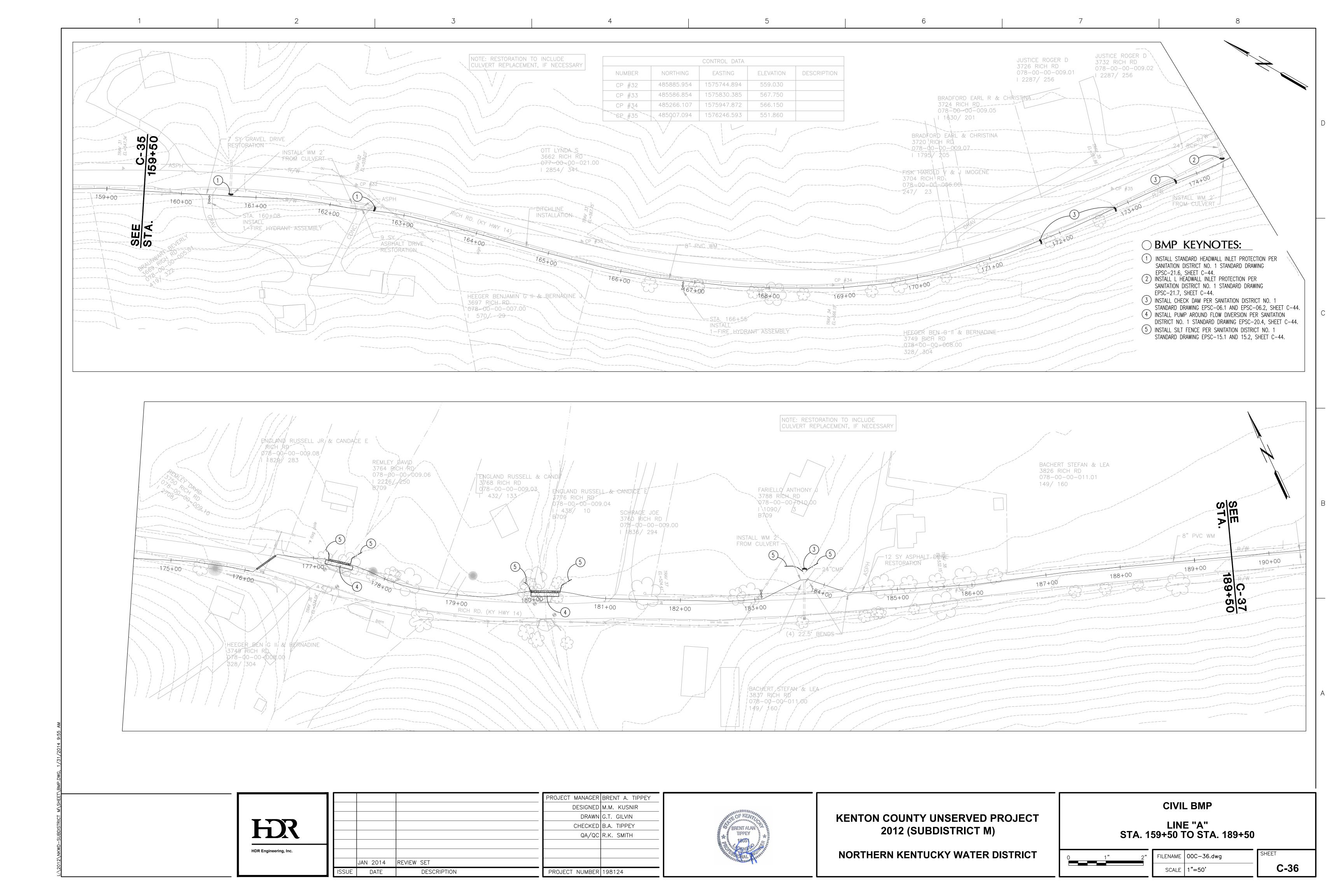


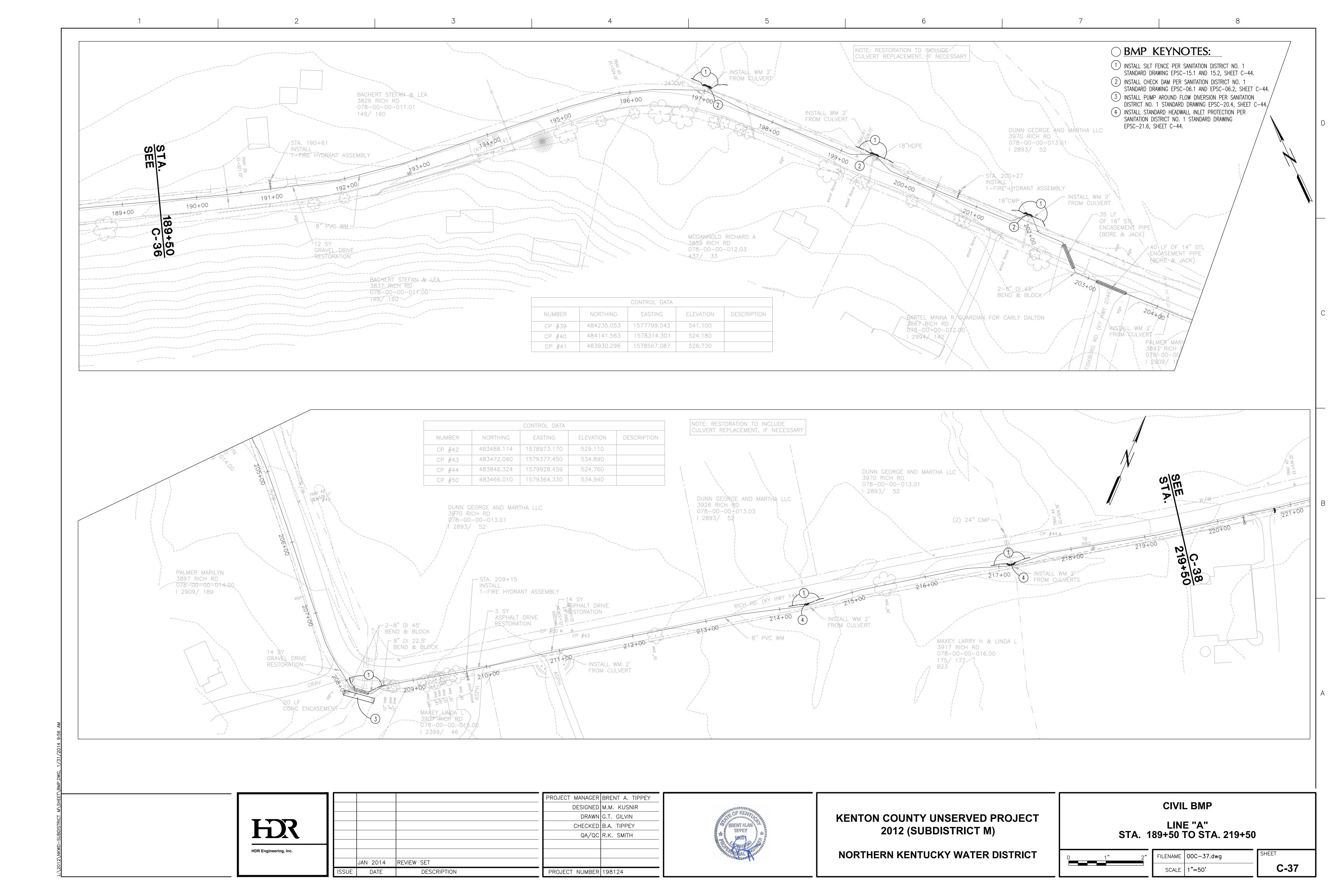


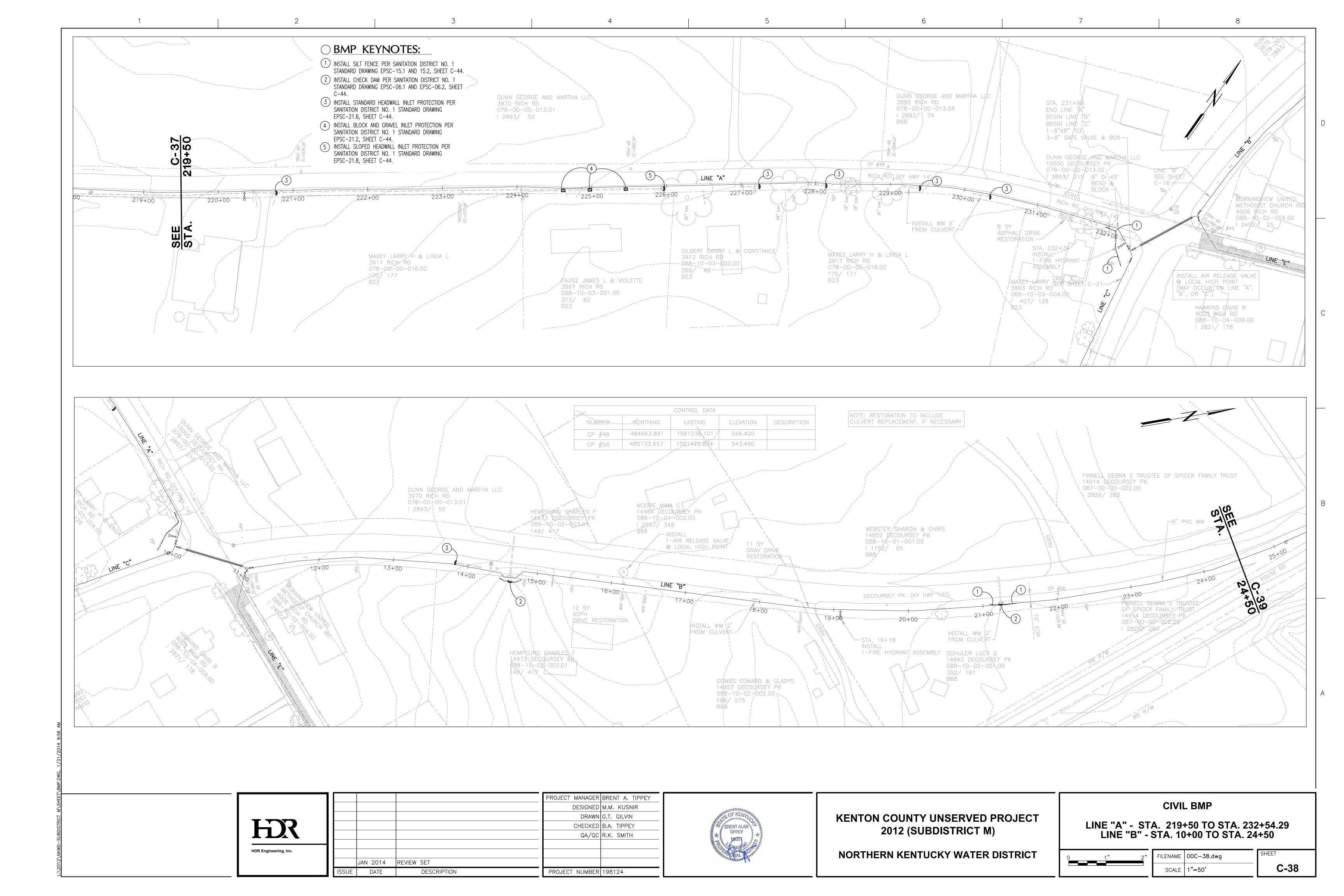


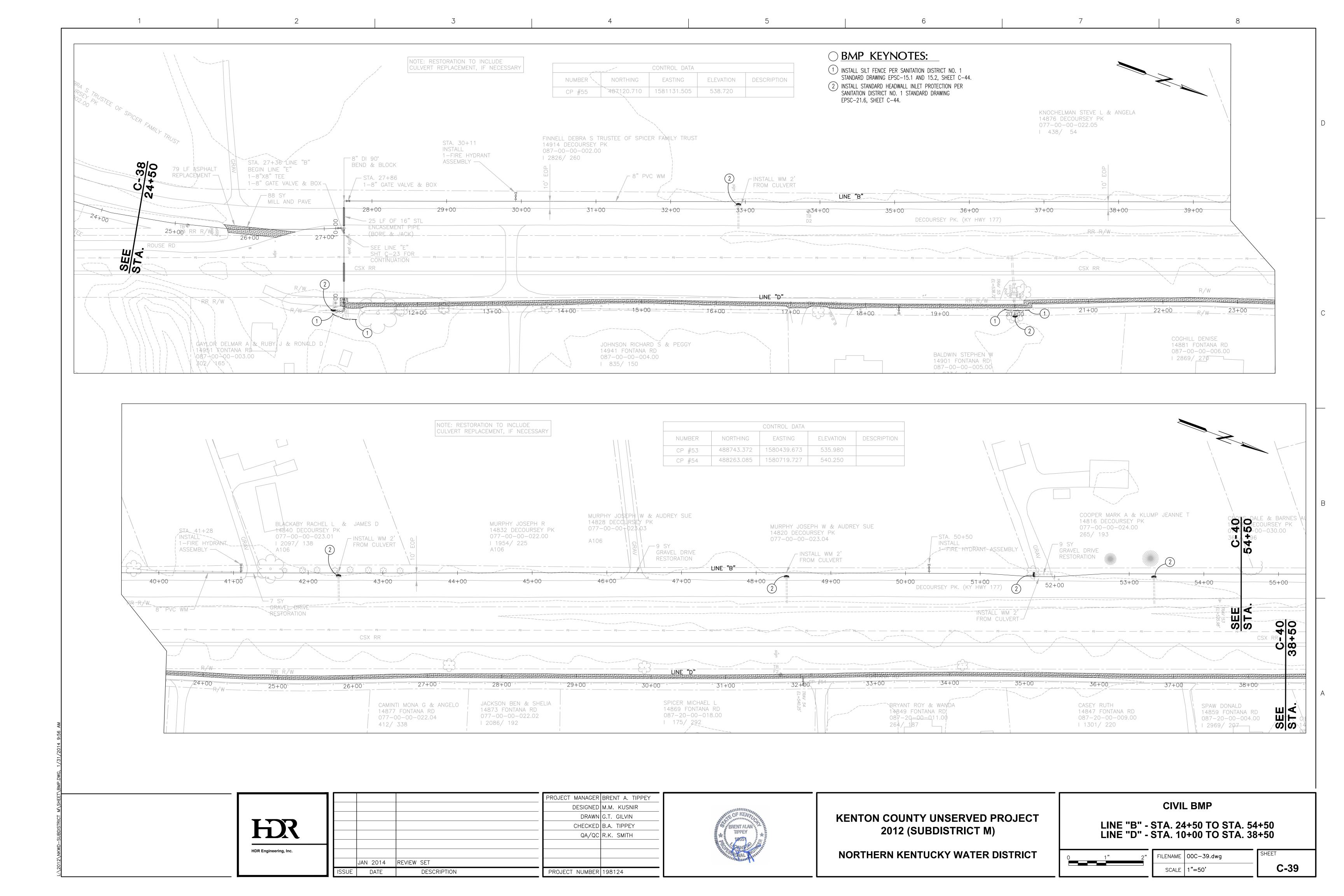


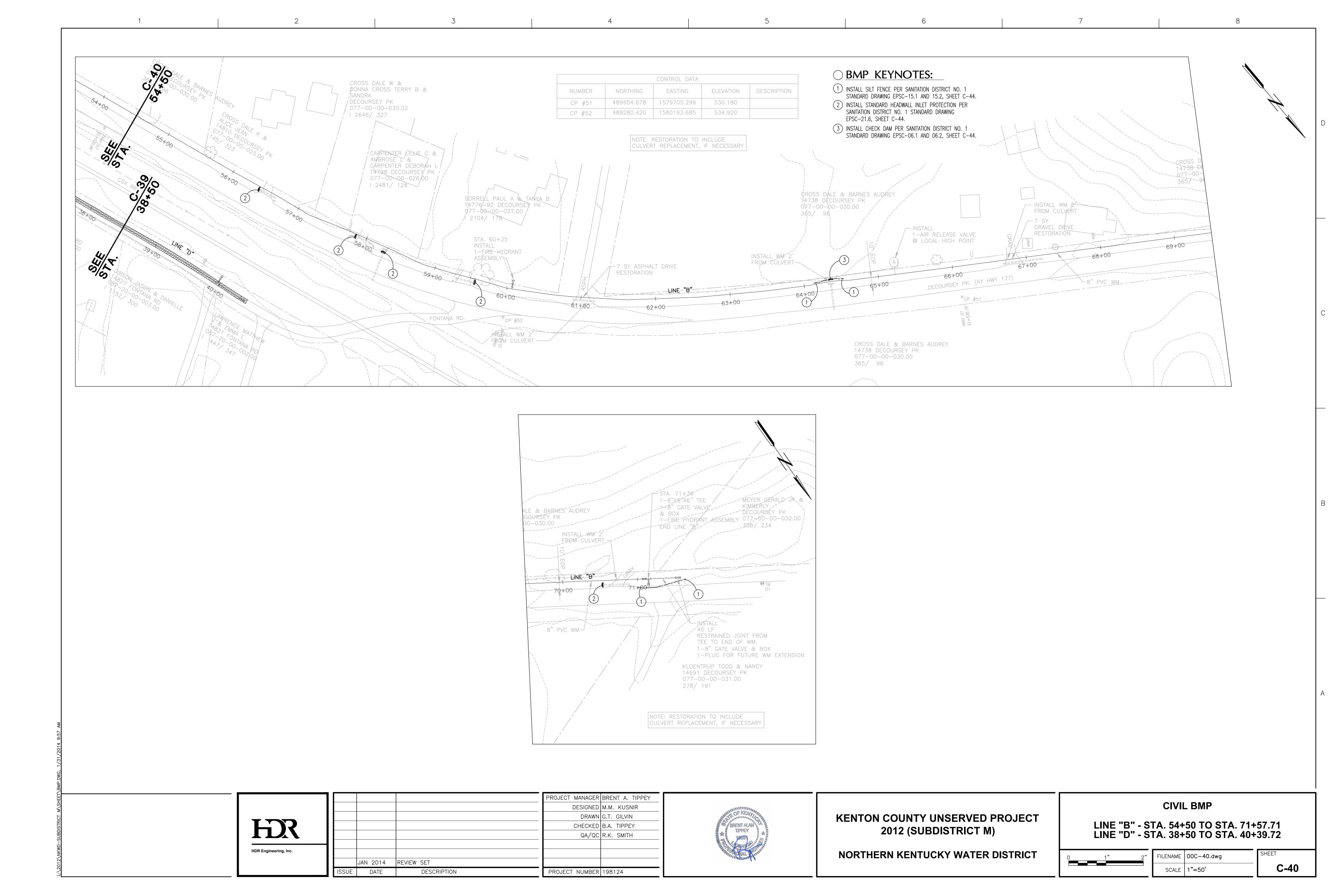


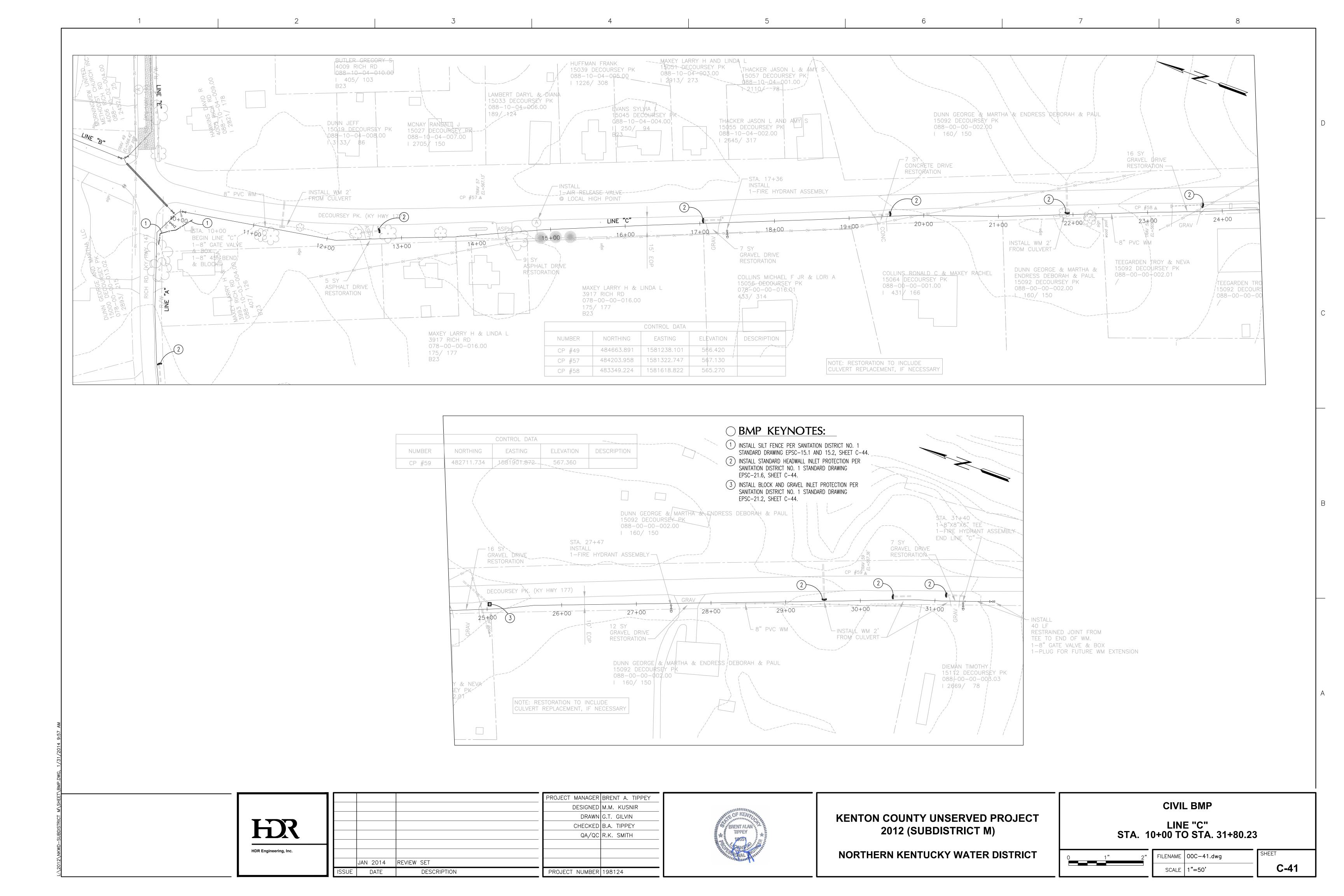


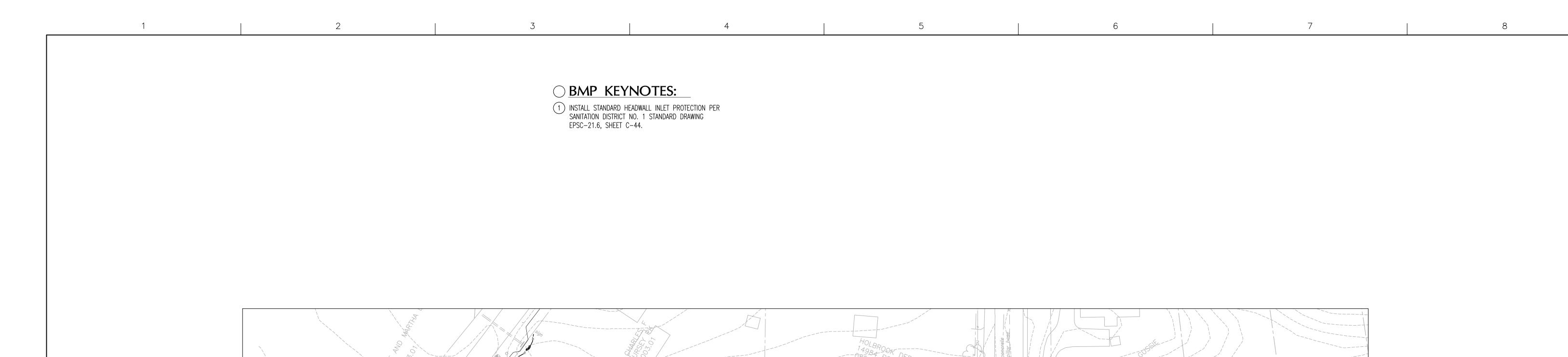


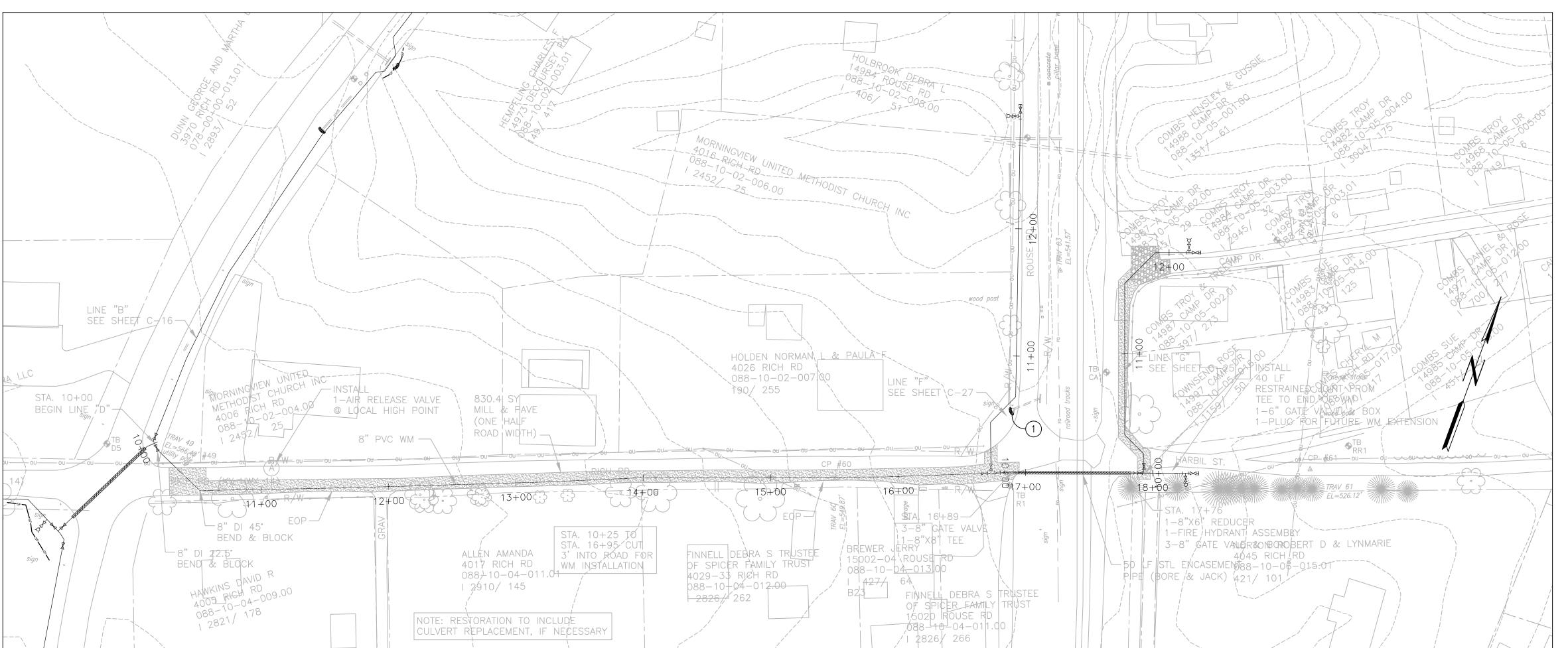












HDR HDR Engineering, Inc.

DESIGNED M.M. KUSNIR  DRAWN G.T. GILVIN  CHECKED B.A. TIPPEY  QA/QC R.K. SMITH	PROJECT MANAGER BRENT A. TIPPEY	
CHECKED B.A. TIPPEY	DESIGNED M.M. KUSNIR	
	DRAWN G.T. GILVIN	
QA/QC R.K. SMITH	CHECKED B.A. TIPPEY	
	QA/QC R.K. SMITH	
JAN 2014 REVIEW SET	SET	JAN 2014 R
ISSUE DATE DESCRIPTION PROJECT NUMBER 198124	DESCRIPTION PROJECT NUMBER 198124	ISSUE DATE



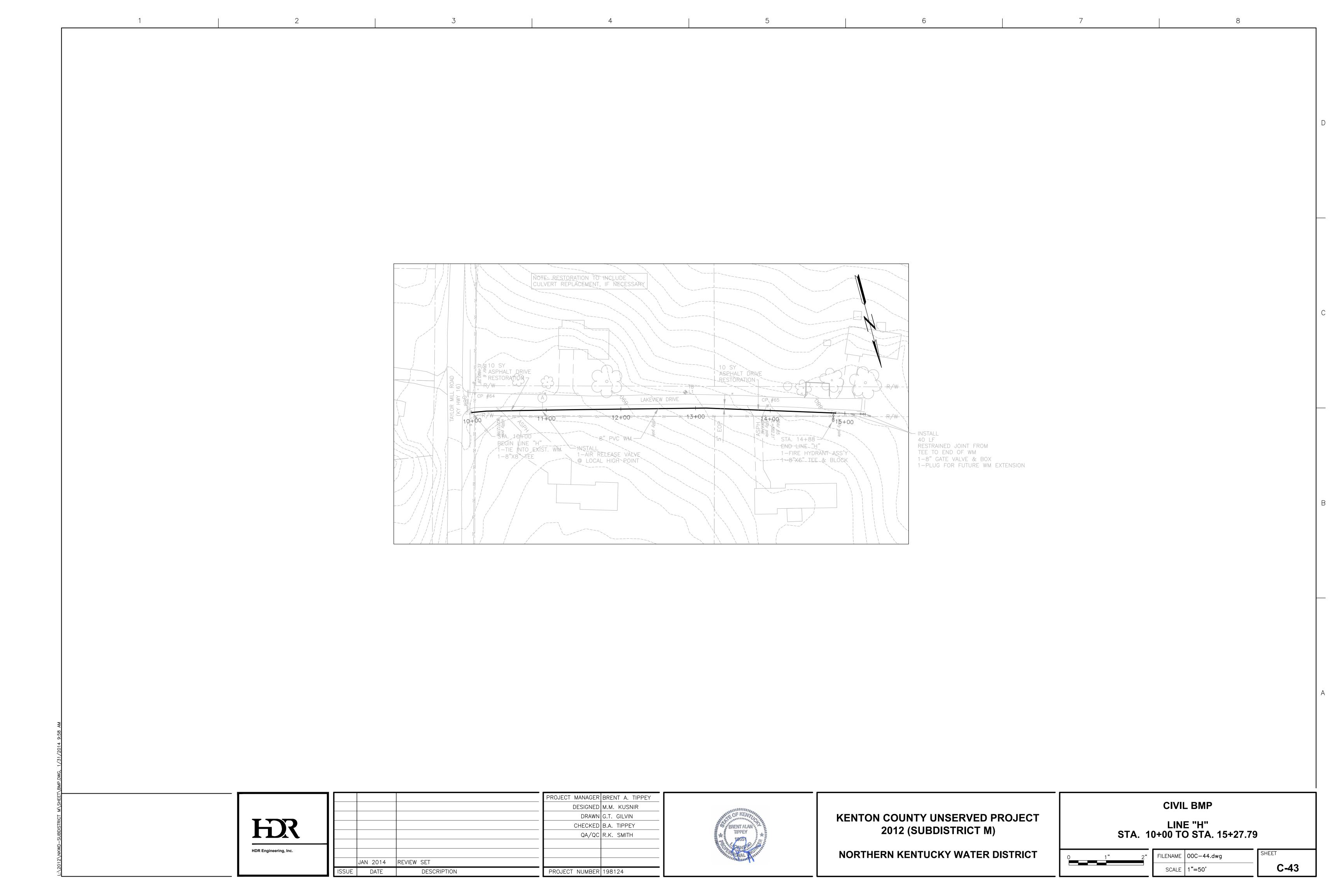
### **KENTON COUNTY UNSERVED PROJECT** 2012 (SUBDISTRICT M)

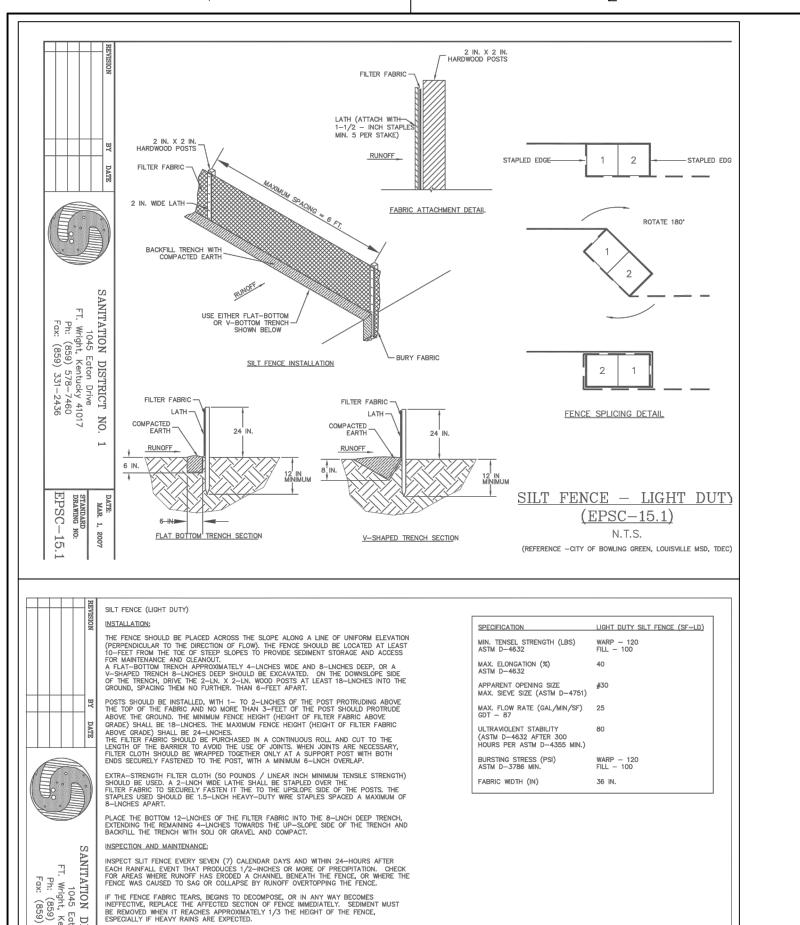
NORTHERN KENTUCKY WATER DISTRICT

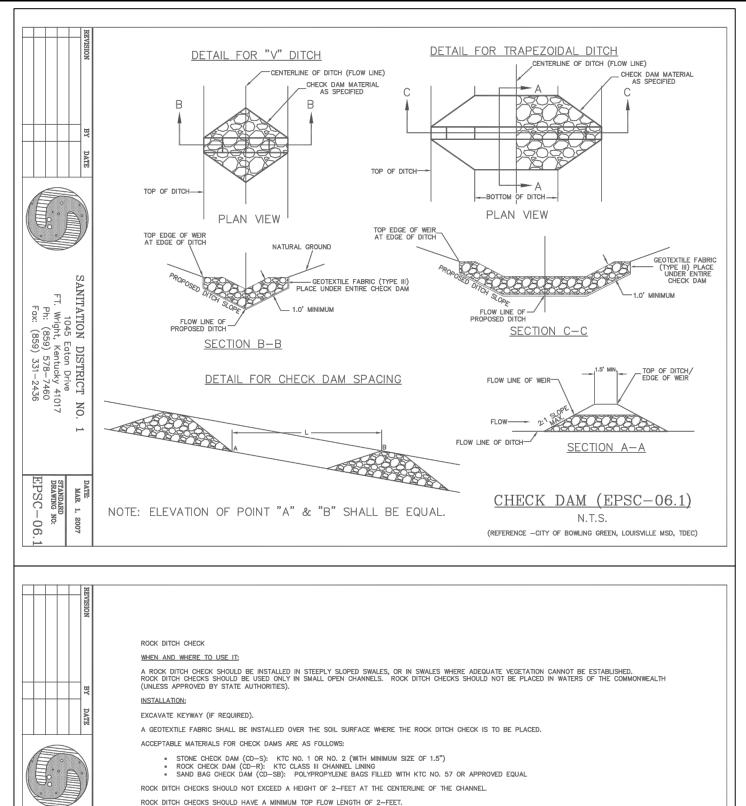
**CIVIL BMP** LINE "E" - STA. 10+00 TO STA. 18+35.97 LINE "F" - STA. 10+00 TO STA. 12+24.85 LINE "F2" - STA. 10+00 TO STA. 12+97.54

FILENAME 00C-43.dwg SCALE 1"=50'

SHEET C-42

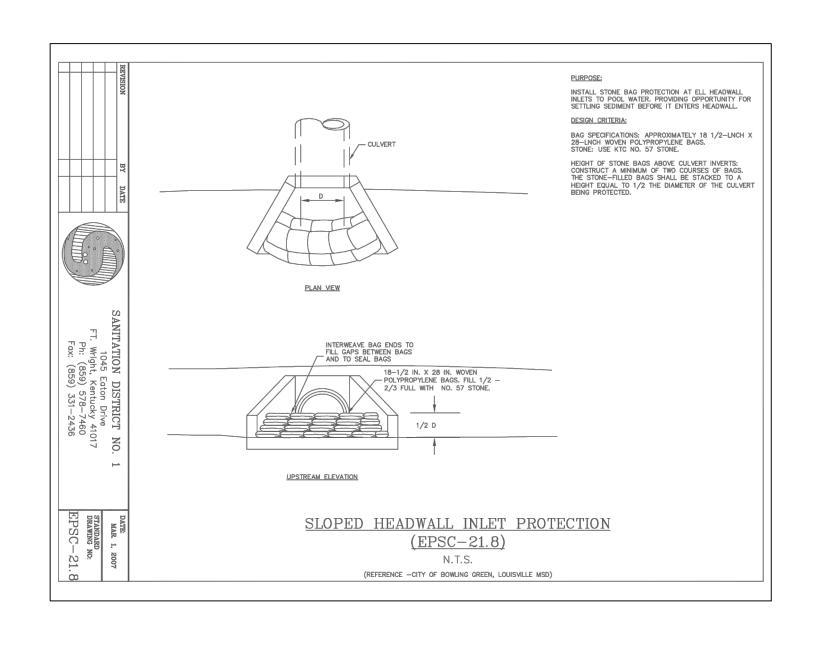


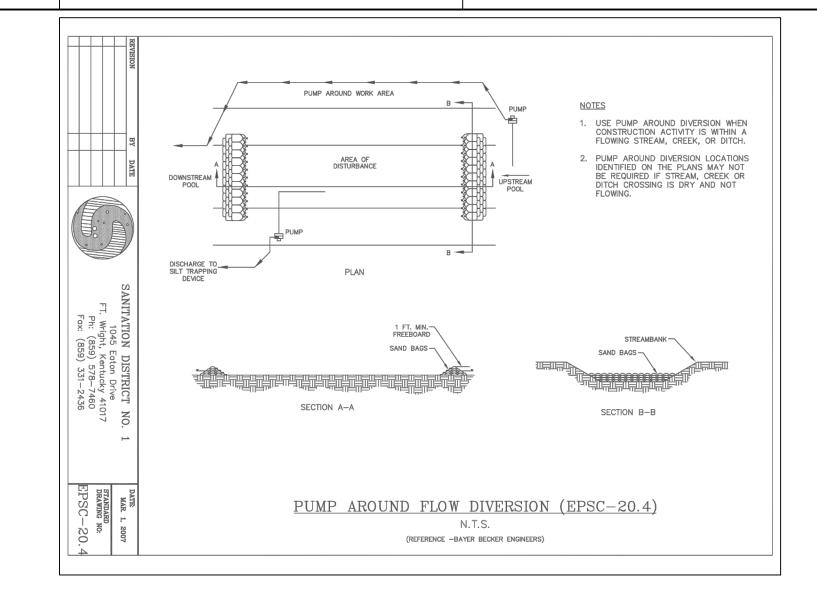


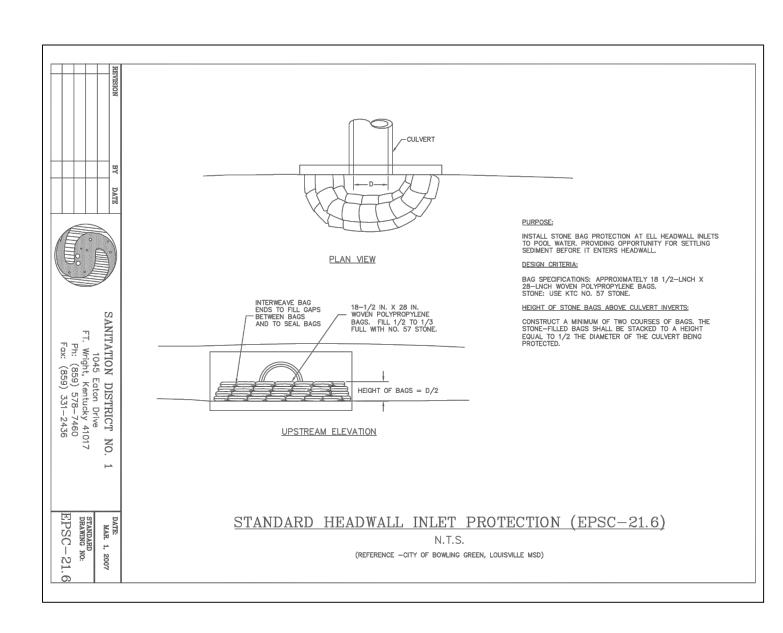


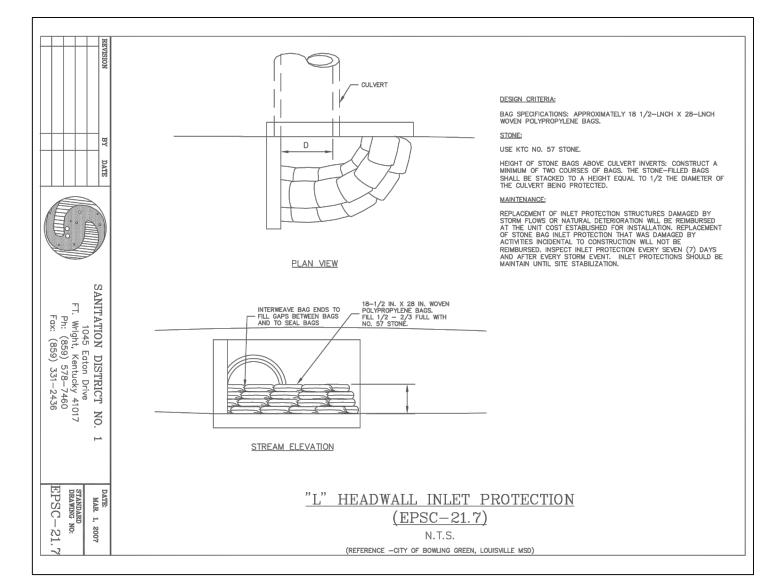


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#### GENERAL EROSION CONTROL NOTES:

THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES. THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL GOVERN THE OVERALL EROSION CONTROL EFFORT. THE CONTRACTOR SHALL DEVISE AND IMPLEMENT SUCH ADDITIONAL MEASURES AS HE DEEMS NECESSARY TO EFFECTIVELY PREVENT EROSION AND SEDIMENTATION FROM OCCURRING. A COPY OF THIS PLAN AND ALL INSPECTION REPORTS SHALL BE KEPT ON THE CONSTRUCTION SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY GOVERNING AUTHORITIES.

THE NOTICE OF INTENT WILL BE SUBMITTED BY THE CONTRACTOR. THE NOT (NOTICE OF TERMINATION) AND ALL OTHER PERMITS REQUIRED FOR EROSION AND SEDIMENT CONTROL MEASURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR (IF REQUIRED TO OBTAIN AND FILE). COPIES OF ALL PERMITS ARE TO BE PROVIDED TO THE DESIGN

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PERMIT MUD OR DIRT TO BE DEPOSITED ON ANY STREET OR PRIVATE PROPERTY. ALL STREETS IN THE VICINITY OF THE WORK SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND, IF NECESSARY, CLEANED.

NO GRADING SHALL COMMENCE UNTIL THE INITIAL SOIL EROSION AND SEDIMENT CONTROL INSTALLATION (SILT FENCES AND CHECK DAMS AND INLET PROTECTION) IS INSTALLED. ANY REVISIONS OR CHANGES TO THE PLANS MUST BE APPROVED BY THE DESIGN ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL PERMANENT VEGETATION IS PROPERLY ESTABLISHED IN ACCORDANCE WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE AND FINAL APPROVAL IS RECEIVED FROM THE OWNER.

SILT CHECKS SHALL COMPLY WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE UNLESS SPECIFIED OTHERWISE. CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE FOR USE ON THIS PROJECT.

AFTER EVERY RAIN IN EXCESS OF 0.5 INCHES, SILT CONTROL DEVICES ARE TO BE INSPECTED, CLEANED AND REPAIRED IF NECESSARY.

IF GRADING OCCURS DURING WINTER MONTHS, THE USE OF WINTER WHEAT OR OTHER RECOMMENDED SEED SHOULD BE USED IN ACCORDANCE WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE.

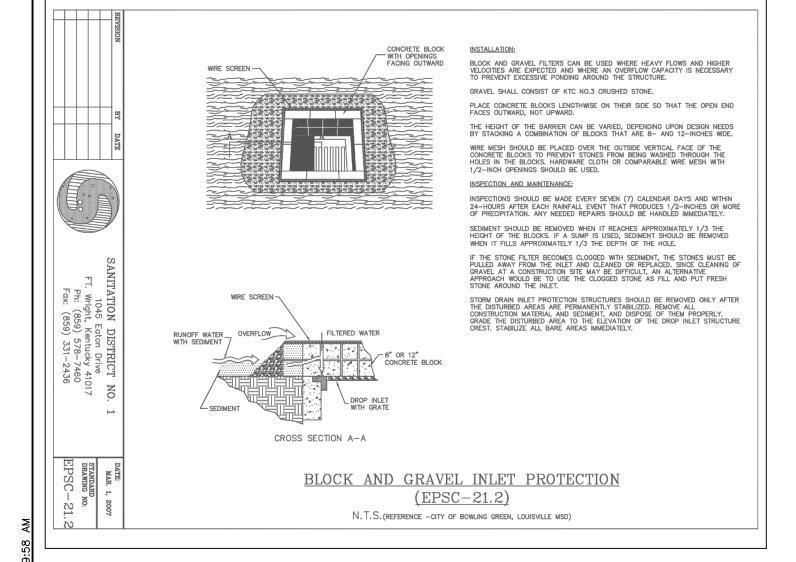
NO VEGETATION OR CONSTRUCTION DEBRIS SHALL BE BURIED ON SITE.

WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED, UNTIL SUCH TIME AS CONDITIONS PERMIT SEEDING.

ALL DISTURBED AREAS THAT REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING, OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

ALL SEEDING TO BE INSTALLED IN ACCORDANCE WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE.

THE SITE SHALL HAVE GRAVELLED ROADS OR ACCESS DRIVES (IF NEEDED) TO PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS. ANY SEDIMENT REACHING A ROADWAY SHALL BE REMOVED. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION BEFORE THE END OF EACH WORKDAY. CONSTRUCTION EXITS SHALL BE ROCKED PRIOR TO ANY OTHER SITE WORK. THE REMAINING VEHICULAR USE AREA AND CONSTRUCTION STAGING AREA SHALL BE ROCKED WITHIN TWO WEEKS OF OVERLOT TOPSOIL STRIPPING.





SILT FENCE - LIGHT DUTY

(EPSC-15.2)

N.T.S.

(REFERENCE -CITY OF BOWLING GREEN, LOUISVILLE MSD, TDEC)

			PROJECT MANAGER	BRENT A. TIPPEY
			DESIGNED	M.M. KUSNIR
			DRAWN	G.T. GILVIN
			CHECKED	B.A. TIPPEY
			QA/QC	R.K. SMITH
	JAN 2014	REVIEW SET		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	198124



### KENTON COUNTY UNSERVED PROJECT 2012 (SUBDISTRICT M)

NORTHERN KENTUCKY WATER DISTRICT

C	IVIL	<b>BMP</b>	
NOTES	ANI	D DE	<b>FAILS</b>



FILENAME	00C-45.dwg
SCALE	1"=50'

C-44