



Waterfront Plaza
Suite 710
325 West Main Street
Louisville, KY 40202
Phone. 502-583-7020
Fax. 502-583-7026

Office Locations

Madison, WI
Joliet, IL
Louisville, KY
Lexington, KY
Mobile, AL
Columbus, IN
Columbus, OH
Indianapolis, IN
Milwaukee, WI
Cincinnati, OH
Phoenix, AZ

www.strand.com

March 15, 2010

Linda Faulkner
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602

RECEIVED

MAR 17 2010

PUBLIC SERVICE
COMMISSION

**Re: McCreary County Water District
New Liberty Water Main Extensions and Storage Tank Projects
Contracts 2 & 2A - 2007**

Dear Ms. Faulkner:

On behalf of McCreary County Water District, we are responding to your letter dated March 8, 2010 for Case No. 2008-00138. In this letter you requested the following items or answer to questions.

- 1) A copy of as-built drawings and a written statement confirming that plans have been constructed in accordance with the contract plans and specifications. Enclosed you will find a half size copies of plans and a letter regarding completion in accordance with the contract plans and specifications.
- 2) McCreary County shall notify the commission to the actual start of construction and the 50% completion point. The Start of construction was on May 16, 2008 and the 50% completion point was approximately August 22, 2008.

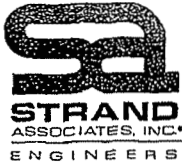
If you have any questions or need any additional information please do not hesitate to give me a call.

Sincerely,

STRAND ASSOCIATES, INC.®

Mark C. Askin, P.E.

cc: Stephen T. Owens, Manager, MCWD
File



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www.strand.com

December 7, 2009

Stephen T. Owens, Manager
McCreary County Water District
P.O. Box 488
Whitley City, Kentucky 42653

**Re: McCreary County Water District
New Liberty Water Main Extensions and Storage Tank Projects
Contracts 2 & 2A - 2007
Certification**

Dear Mr. Owens:

We hereby state to the best of our knowledge and belief that the referenced projects have been completed in accordance with the plans and specifications.

Sincerely,

STRAND ASSOCIATES, INC.[®]

A handwritten signature in black ink, appearing to read 'Mark C. Askin', is written over the printed name.

Mark C. Askin, P.E.

cc: Tom Partin, Rural Development
File



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December 7, 2009

Stephen T. Owens, Manager
McCreary County Water District
P.O. Box 488
Whitley City, Kentucky 42653

**Re: McCreary County Water District
New Liberty Water Main Extensions and Storage Tank Projects
Contracts 2 & 2A - 2007
Substantial Completion & Warranty**

Dear Owens:

We hereby state that items planned and specified in Contract 2 - 2007 (performed by Southern Kentucky Construction Company) as bid originally, and change orders, were operational as of November 19, 2009. The warranty period for all items are for one year and expires **November 19, 2010**.

We hereby state that items planned and specified in Contract 2A - 2007 (performed by Caldwell Tanks, Inc.) as bid originally, and change orders, were operational as of April 22, 2009. The warranty period for all items are for one year and expires on **April 22, 2010**.

The record drawings for both of these projects were completed and sent to your office on April 22, 2009.

If you have any questions or need any additional information please do not hesitate to give me a call.

Sincerely,

STRAND ASSOCIATES, INC.®


Mark C. Askin, P.E.

cc: Tom Partin, Rural Development
File



Steven L. Beshear
Governor

Leonard K. Peters
Secretary
Energy and Environment Cabinet

Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602-0615
Telephone: (502) 564-3940
Fax: (502) 564-3460
psc.ky.gov

David L. Armstrong
Chairman

James W. Gardner
Vice Chairman

Charles R. Borders
Commissioner

March 8, 2010

Raymond Taylor
Chairman of The Commission
McCreary County Water District
P.O. Box 488
Whitley City, KY 42653

Dear Mr. Taylor:

The order issued by the Kentucky Public Service Commission on Case No. 2008-00138 dated May 15, 2008 stipulates the following:

- McCreary District shall file a copy of the "as-built" drawings and a certified statement that the construction has been satisfactorily completed in accordance with the contract plans and specifications within 60 days of the substantial completion of the construction certified herein.
- McCreary District shall notify the Commission one week prior to the actual start of construction and at the 50 percent completion point.

Please report to us in writing the status of these issues by March 22, 2010.

Sincerely,

Linda Faulkner
Division Director Filings

NEW LIBERTY WATER MAIN EXTENSIONS PROJECT

FOR THE

McCREARY COUNTY WATER DISTRICT

WHITLEY CITY, KENTUCKY

DECEMBER 2007

5-108.019 - NEW LIBERTY WATER MAIN EXTENSIONS PROJECT

COMMISSIONERS

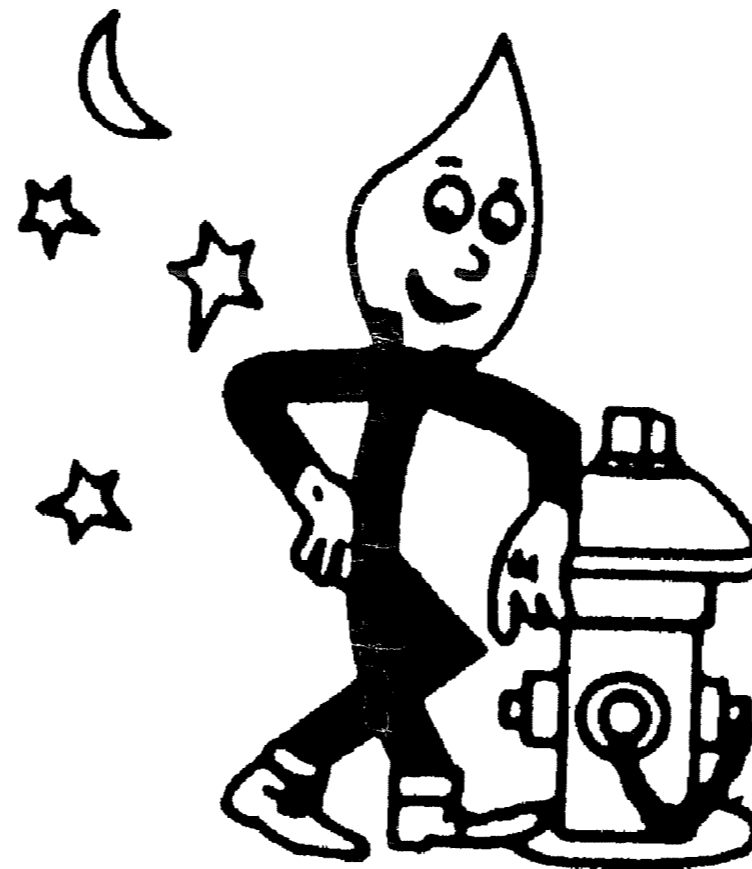
RAYMOND TAYLOR, CHAIRMAN
LARRY CAMPBELL BUTLER WATTERS
COY TAYLOR DOUG SEXTON

MANAGER

STEPHEN T. OWENS

LOCAL COUNSEL

TIM LAVENDER



325 West Main Street, Suite 710
Louisville, KY 40202
502 583-7020
502 583-7026 FAX

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CONTRACT NO. 2 - 2007

2008-00138
RECEIVED

MAR 17 2010

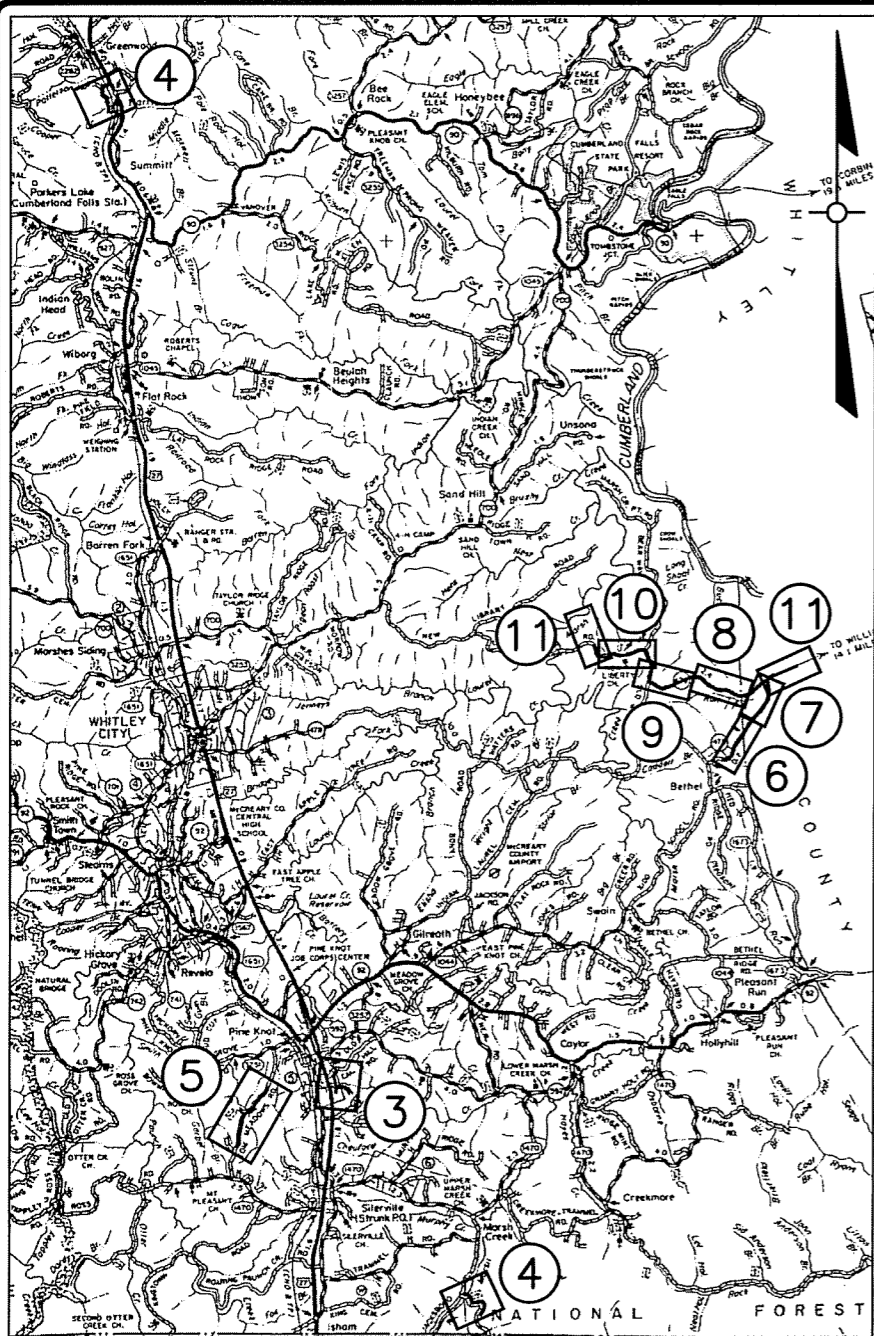
PUBLIC SERVICE
COMMISSION

RECORD DRAWINGS



SHEET
1

JOB NO. 5-108.019



LEGEND:

PROJECT MAP

- [Hatched Box] AREA COVERED BY PLAN SHEET
- [Circle with Number] PLAN SHEET NUMBER

PLAN SHEETS

- [Symbol] BLOWOFF HYDRANT ASSEMBLY
- [Symbol] GATE VALVE AND BOX
- [Symbol] AUTOMATIC AIR RELEASE VALVE
- [Symbol] PROPERTY LINE
- [Symbol] SPECIAL CREEK CROSSING METER BOX
- [Symbol] EXISTING OVERHEAD ELECTRIC LINES
- [Hatched Box] AREA WHERE EASEMENT ARE REQUIRED

INDEX OF DRAWINGS

SHEET NO.	SHEET NAME
1	COVER SHEET
2	INDEX, LEGEND, & GENERAL NOTES
3	LINE A - GARLAND ROAD, LINE B - KIDD ROAD
4	LINE C - POFF ROAD, LINE G - CREEKMORE-PREVITT RD
5	LINE D - TOM MEADOWS ROAD
6-11	LINE E - NEW LIBERTY ROAD
11	LINE F - KY 478
12-13	STANDARD DETAILS

LOCATION CONDITION "A"
WHENEVER POSSIBLE, THE PROPOSED WATER MAIN SHALL BE LOCATED ADJACENT TO THE EXISTING RIGHT-OF-WAY FENCE LINE AND AS CLOSE TO SAID FENCE LINE AS PRACTICABLY CONSTRUCTABLE PROVIDE 36" (min) OF COVER

LOCATION CONDITION "B"
WHENEVER IT IS NECESSARY TO INSTALL PROPOSED WATER MAIN ON EXISTING SLOPE, THE CONTRACTOR SHALL CUT A TEMPORARY BENCH IN SAID SLOPE AND INSTALL THE WATER MAIN WITH 36" (min) COVER. COVER WILL BE AS MEASURED FROM THE TOP OF THE INSTALLED PIPE TO DIRECTLY ABOVE THE PIPE MID POINT BETWEEN THE UP HILL AND DOWN HILL DITCH BANKS. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED, AND EROSION CONTROL PROVIDED AS NECESSARY TO MAINTAIN BACKFILL.

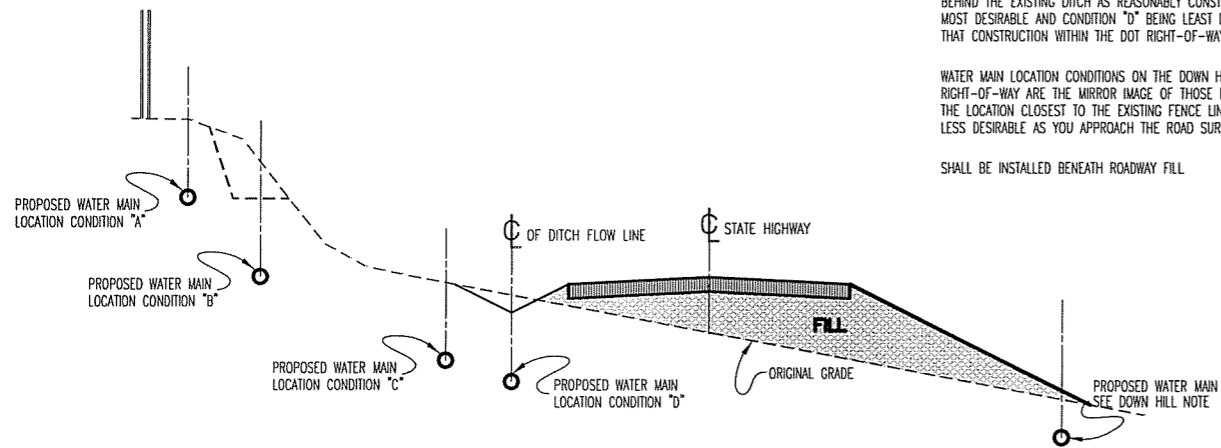
LOCATION CONDITION "C"
WHENEVER IT IS NECESSARY TO INSTALL PROPOSED WATER MAIN AT THE TOE OF THE EXISTING UP HILL SLOPE, THE CONTRACTOR SHALL LOCATE THE WATER MAIN BEHIND THE EXISTING DITCH WITH 36" (min) COVER. THE WATER MAIN SHALL BE AS FAR AS POSSIBLE BEHIND THE EXISTING DITCH.

LOCATION CONDITION "D"
WHENEVER IT IS NECESSARY TO INSTALL THE PROPOSED WATER MAIN WITHIN THE LIMITS OF THE EXISTING ROADWAY DITCH LINE, THE CONTRACTOR SHALL PROVIDE 42" (min) COVER OVER THE PROPOSED WATER MAIN MEASURED FROM THE INVERT OF THE DITCH LINE AFTER FINAL GRADING, TO THE TOP OF THE WATER MAIN. THE CONDITION AND GRADE OF THE DITCH SHALL BE CONTINUOUSLY MAINTAINED AS THE WATER MAIN IS

LOCATION CONDITION TYPICAL INFORMATION:
WHENEVER THE WATER MAIN IS SHOWN TO BE WITHIN THE RIGHT-OF-WAY THE LOCATION OF SAID WATER MAIN WILL BE AS CLOSE TO THE EXISTING FENCE, AND AS FAR AS POSSIBLE BEHIND THE EXISTING DITCH AS REASONABLY CONSTRUCTABLE, WITH CONDITION "A" BEING MOST DESIRABLE AND CONDITION "D" BEING LEAST DESIRABLE. THE CONTRACTOR SHOULD NOTE THAT CONSTRUCTION WITHIN THE DOT RIGHT-OF-WAY WILL BE SUBJECT TO APPROVAL BY

WATER MAIN LOCATION CONDITIONS ON THE DOWN HILL PORTION OF THE RIGHT-OF-WAY ARE THE MIRROR IMAGE OF THOSE LISTED AT LEFT WITH THE LOCATION CLOSEST TO THE EXISTING FENCE LINE MOST DESIRABLE AND LESS DESIRABLE AS YOU APPROACH THE ROAD SURFACE. NO WATER MAINS

SHALL BE INSTALLED BENEATH ROADWAY FILL



**TYPICAL DETAIL OF WATER MAIN
LOCATED PARALLEL TO AND WITHIN RIGHT-OF-WAY**

NOT TO SCALE

CONSTRUCTION ON RIGHT-OF-WAY NOTES:

- WATER LINES TO BE CONSTRUCTED WITHIN THE KENTUCKY DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY:
Trenches shall be of a depth sufficient to provide a minimum cover of 42" from the existing ground surface to the top of the pipe and be located approximately 5 feet from the edge of the pavement or on the back side of ditch line, unless otherwise noted. See individual sheets for details.
- ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY:
Shall be a minimum of 42" depth under bottom of ditch line to top of the proposed bore and/or casing pipe on both sides of the highway.
- ROCK BLASTING:
There shall be NO blasting within State Right-of-Way without written consent from the Department of Transportation.
- PROTECTION OF EXISTING PAVING:
Care shall be taken by the CONTRACTOR to avoid cracking or breaking the bituminous paving. All damage to the existing paving caused by the CONTRACTOR'S operation shall be repaired by the CONTRACTOR at no cost to the owner. Paving protection shall be accomplished by the use of rubber-tired and street padded machinery or other approved equipment well suited for this type of construction.
- BANK AND DITCH PROTECTION EXCAVATION:
During construction, all embankments, refills and excavations shall be kept shaped and drained by the CONTRACTOR. Ditches and drains along the highways shall be maintained in such a manner as to drain effectively at all times.
- PRIVATE ENTRANCE ROAD:
All roadways and driveways within the work limits of state Right-of-Ways shall be refilled to the natural surface of the ground with approved material. The material shall be placed and compacted to a smoothness suitable for traffic. The CONTRACTOR shall be totally responsible for maintaining these roadways until the restoration is approved by the ENGINEER. The CONTRACTOR shall note that all private businesses and residences along the route of the proposed water main must have access to their properties at all times during construction.
- PROTECTION OF EXISTING DRAINAGE CULVERTS:
At locations where the proposed water main is parallel with or crossing an existing storm sewer, the cost of relaying existing culvert pipes or the extra depth required to avoid the existing culvert is considered incidental to the construction and is not a pay item.
- EXISTING UTILITIES HAVE NOT BEEN SHOWN:
The CONTRACTOR shall be responsible for locating all existing utilities. The CONTRACTOR shall coordinate with the representatives of the various utilities when working near any existing utility. No additional payment to the CONTRACTOR will be made for extra depth required to avoid any existing utility.
- FITTINGS:
Unless otherwise noted, a separate bid item has not been established for fittings. The fittings involved are, but not limited to, the following: tees, bends, plugs, reducers, couplings, saddles, crosses, etc. The CONTRACTOR shall include the cost of these items in the unit price for the pipe. All tees and bends shall be thrust blocked as shown on the detail sheets of the contract drawings.
- CONSTRUCTION LIMITS:
The CONTRACTOR shall confine all construction activity to the area within existing easements and construction limits, unless otherwise approved in writing by the OWNER.
- ROCK SOUNDINGS:
Rock soundings were not performed by the ENGINEER. The CONTRACTOR shall take appropriate action to determine subsurface conditions.
- FINAL LOCATIONS OF APPURTENANCES:
The final location of services, line valves, air release valves, blowoffs, hydrants (location and orientation) shall be field located during construction and approved by the ENGINEER. All meters, valves, air releases, blowoffs and hydrants shall only be located on the backside of

KTC-DEPARTMENT OF HIGHWAYS GENERAL NOTES:

- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 36 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- CONTACT THE DISTRICT PERMITS ENGINEER AT KTC-DOH DISTRICT #8, SOMERSET, KY AT (606) 677-4017 PRIOR TO BEGINNING WORK.
- ALL EFFECTED KTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.

GENERAL NOTES:

- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL EXISTING UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- EXISTING UTILITIES DEPICTED IN THE CONSTRUCTION DRAWINGS WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS OR OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR MAY VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO ACTUAL LOCATION OF UTILITIES SHOWN HEREON, BUT NOT VISIBLE FROM THE SURFACE.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITIES TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF THE OWNER 48 HOURS (MIN) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF THE DISTRIBUTION SYSTEM. ALL MATERIALS, EQUIPMENT AND PERSONNEL REQUIRED SHALL BE ON SITE PRIOR TO ANY CONSTRUCTION ACTIVITY THAT DISRUPTS OPERATION OF THE EXISTING DISTRIBUTION SYSTEM.
- UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 30" (MIN) COVER AS MEASURED FROM FINISHED GRADE TO THE OUTSIDE SURFACE OF THE PIPE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.
- ALL PROPOSED WATER MAINS LOCATED WITHIN THE LIMITS OF THE EXISTING HIGHWAY R.O.W SHALL BE INSTALLED WITH 42" (MIN.) OF COVER ABOVE THE PROPOSED WATER MAIN. THE DIMENSION OF COVER WILL BE MEASURED FROM THE TOP EXTERIOR SURFACE OF THE PROPOSED WATER MAIN AT THE POINT OF MAXIMUM DIAMETER OF THE PROPOSED WATER MAIN (JOINT, BELL, FITTING, ETC.) TO THE INVERT OF THE HIGHWAY DITCH LINE AFTER THE SAID DITCH LINE HAS BEEN DRESSED TO FINAL GRADE. SEE DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL NOTE THAT THE LENGTH OF BORES AND CASINGS REFERRED TO ON THE CONTRACT DRAWINGS IS APPROXIMATE AND MAY BE INCREASED OR DECREASED BY THE OWNER AND/OR THE ENGINEER AS REQUIRED BY FIELD REQUIREMENTS DURING CONSTRUCTION OF THIS CONTRACT.
- THE CONTRACTOR SHALL NOTE THAT MANY WATERWAY CROSSINGS (CREEKS, STREAMS, DRAINS, ETC.) REQUIRE PROTECTION BY PLACEMENT OF EITHER A CRUSHED ROCK OR CONCRETE CAP ABOVE THE PROPOSED WATERMAIN. MOST OF THESE CROSSINGS HAVE BEEN IDENTIFIED, HOWEVER ADDITIONAL CAPS MAY BE REQUIRED AS ACTUAL FIELD CONSTRUCTION DICTATES. FURTHER THE LENGTH AND MATERIAL (STONE OR CONCRETE) MAY BE CHANGED AS REQUIRED BY ACTUAL FIELD CONDITIONS DURING CONSTRUCTION OF THIS CONTRACT. ALL CHANGES SHALL BE PAID FOR AT THE UNIT PRICE BID FOR SAID WATERWAY CROSSINGS UNDER THIS CONTRACT AND SHALL BE APPROVED BY OR DIRECTED BY THE OWNER AND/OR THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL NOTE THAT THE APPROXIMATE LOCATION OF MANY OF THE EXISTING HIGHWAY CULVERTS AND APPURTENANCES HAVE BEEN DEPICTED ON THE CONTRACT DRAWINGS, HOWEVER ADDITIONAL SUCH ITEMS MAY EXIST. FURTHER MORE IN SOME CIRCUMSTANCES THE EXISTING CULVERTS HAVE BEEN REFERRED TO AS BROKEN OR DAMAGED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND DOCUMENT THE CONDITION OF ALL EXISTING APPURTENANCES (HIGHWAY AND UTILITY) TO PREVENT CLAIMS THAT SAID ITEMS WERE DAMAGED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR DURING CONSTRUCTION OF THIS CONTRACT.
- ALL PAVED SURFACES CROSSED BY THE PROPOSED WATER MAIN SHALL BE SAW CUT TO PROVIDE A CLEAN, TRUE EDGE FOR PAVEMENT REPLACEMENT.
- ALL EXCAVATION UNDER THIS CONTRACT IS UNCLASSIFIED. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR ROCK EXCAVATION. ADDITIONALLY, NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA TRENCH DEPTH THAT MAY BE REQUIRED TO AVOID EXISTING UTILITIES, ETC OR REQUIRED BY GRADE TRANSITIONS SUCH AS CREEK CROSSINGS, ETC. THE CONTRACTOR SHALL INCLUDE ALL SUCH COSTS IN THE UNIT PRICE BID.
- THE CONTRACTOR SHALL NOTE THAT SOME PROPERTIES ALONG THE PROPOSED WATER MAIN ROUTE MAY HAVE EXISTING ON-SITE SEWAGE DISPOSAL SYSTEMS (SEPTIC TANKS, LEACH FIELDS, ETC.) THE CONTRACTOR SHALL ASSESS FIELD CONDITIONS AHEAD OF HIS EXCAVATION AS REQUIRED TO AVOID DISTURBING ALL SUCH SYSTEMS. HOWEVER IF DISTURBANCE IS UNAVOIDABLE OR ACCIDENTAL, THE CONTRACTOR SHALL HAVE ON CALL A LICENSED PLUMBER TO REPAIR ANY AND ALL DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR. FURTHERMORE, THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR THE ENGINEERING PRIOR TO BACK FILLING THE PROPOSED WATERMAIN TO ALLOW ASSESSMENT OF FIELD CONDITIONS WHICH MAY REQUIRE FURTHER PROTECTION OF THE PROPOSED WATER MAIN. ANY REPAIRS MADE TO EXISTING SEPTIC SYSTEMS SHALL BE PERMANENT, IN ACCORDANCE WITH ALL GOVERNING CODES, AND SHALL BE COMPLETED THE SAME DAY.
- ALL FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT, CEMENT LINED, BITUMINOUS COATED, AND THRUST BLOCKED AS DETAILLED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY EASEMENTS THAT IS REQUIRES FOR ANY CONSTRUCTION ACTIVITIES OR STORAGE.
- THE NEW WATER MAIN SHALL BE LOCATED IN THE EXISTING ROW AND TEMPORARY EASEMENTS SHALL BE THE CONTRACTORS RESPONSIBILITY.
- THE PROPERTY LINES ARE BASED ON PVA MAPS ONLY NOT A BOUNDARY SURVEY. THE ACCURACY OF THE PROPERTY LINES ARE APPROXIMATE ONLY.
- CONTRACTOR TO BE SURE BMP'S FOR RIPARIAN ZONE IMPACTS ARE UTILIZED PROPERLY AND MAINTAINED.
- THE CONTRACTOR SHALL AVOID REMOVING ANY TREES GREATER THAN 9 INCHES IN DIAMETER. THESE TREES CAN ONLY BE REMOVED FROM NOVEMBER 15, 2007 TO MARCH 31, 2008.

INDEX, LEGEND, & GENERAL NOTES

NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
MCCREARY COUNTY WATER DISTRICT
WHITLEY CITY, KENTUCKY

NO.	REVISIONS	DATE

DES BY: RDT CHK BY: MCA
RECORD DRAWING
BY: KTB DATE: 12/29
CONTRACTOR:



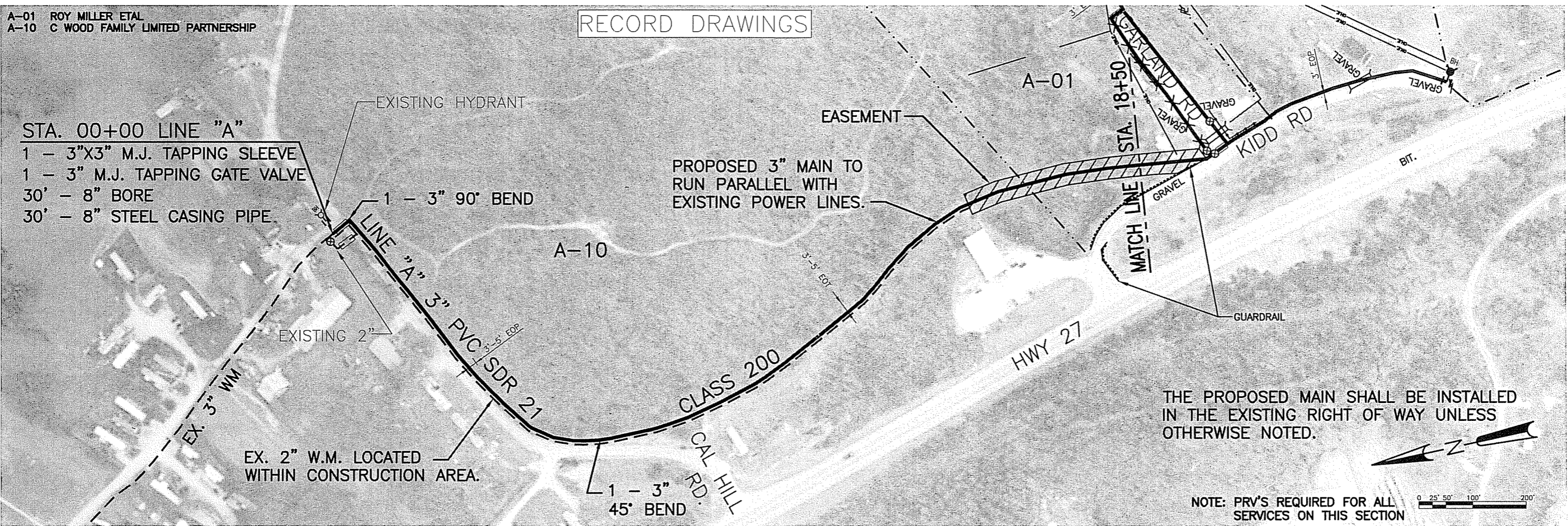
SHEET
2

JOB NO. 5-108.019

A-01 ROY MILLER ETAL
 A-10 C WOOD FAMILY LIMITED PARTNERSHIP

RECORD DRAWINGS

- STA. 00+00 LINE "A"
 1 - 3"x3" M.J. TAPPING SLEEVE
 1 - 3" M.J. TAPPING GATE VALVE
 30' - 8" BORE
 30' - 8" STEEL CASING PIPE

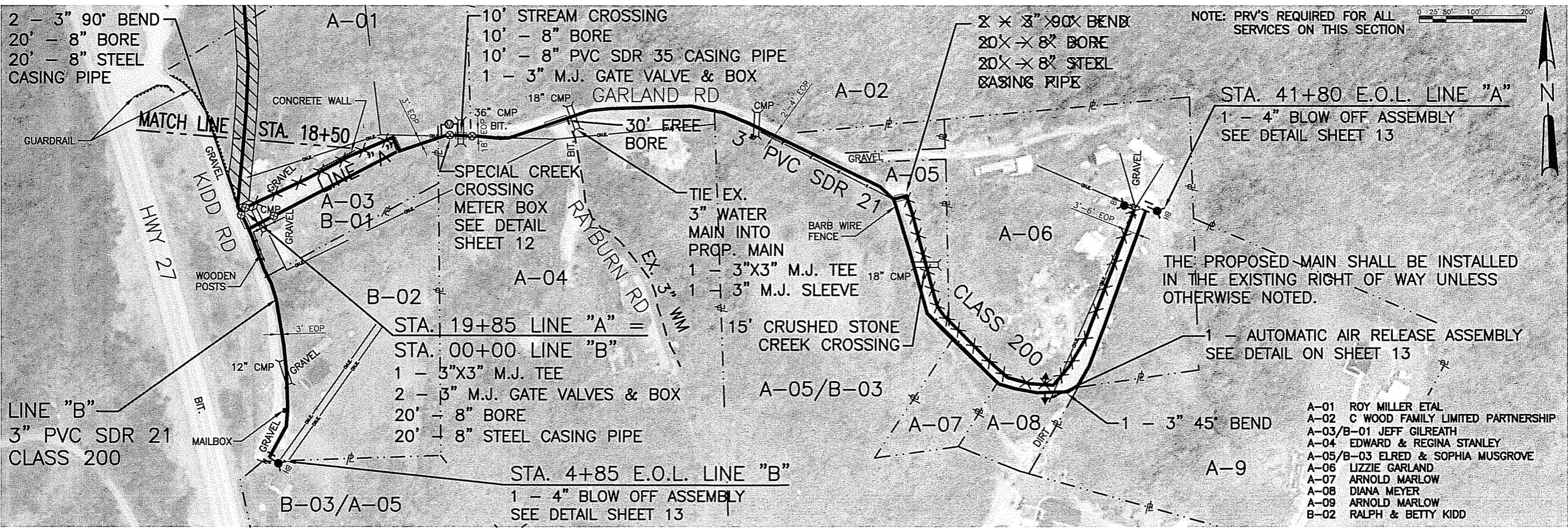


THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION



- 2 - 3" 90° BEND
 20' - 8" BORE
 20' - 8" STEEL CASING PIPE



NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION



- A-01 ROY MILLER ETAL
- A-02 C WOOD FAMILY LIMITED PARTNERSHIP
- A-03/B-01 JEFF GILREATH
- A-04 EDWARD & REGINA STANLEY
- A-05/B-03 ELRED & SOPHIA MUSGROVE
- A-06 LIZZIE GARLAND
- A-07 ARNOLD MARLOW
- A-08 DIANA MEYER
- A-09 ARNOLD MARLOW
- B-02 RALPH & BETTY KIDD

NO.	REVISIONS	DATE:

DATE: 12/2007
 DES BY: HEN CHK BY: MCA
 RECORD DRAWING
 BY: KTB DATE: 12/29
 CONTRACTOR:

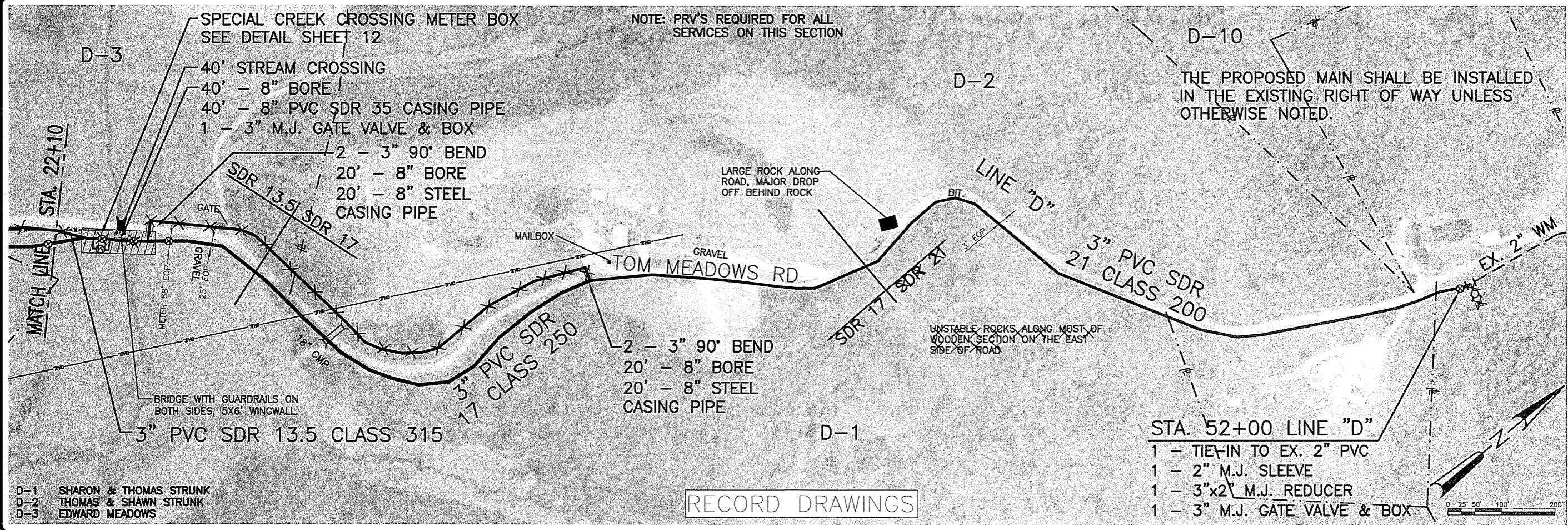
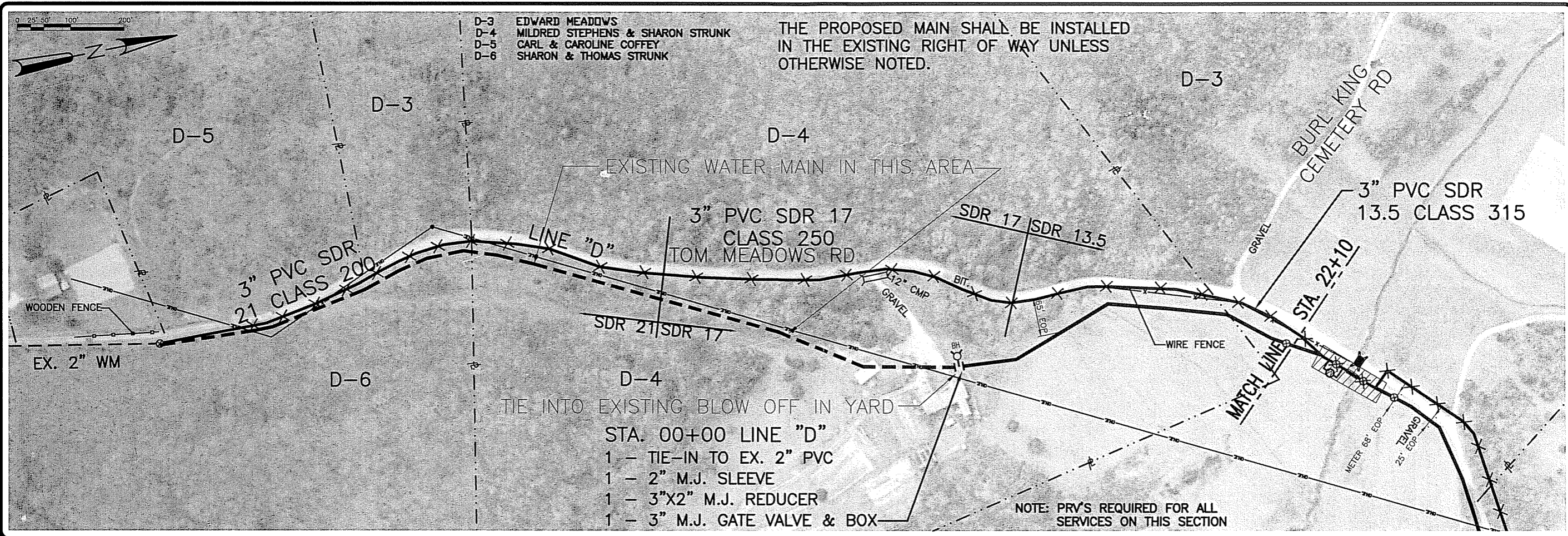
LINE "A" - GARLAND ROAD - STA. 00+00 TO STA. 41+80
 LINE "B" - KIDD ROAD - STA. 00+00 TO STA. 4+85

NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 MCCREARY COUNTY WATER DISTRICT
 WHITLEY CITY, KENTUCKY



SHEET
3

JOB NO. 5-108.019



DATE:	
NO.	REVISIONS
DATE: 12/2007	
DES BY: HEN	
CHK BY: MCA	
RECORD DRAWING	
BY: KTB	
DATE: 12/29	
CONTRACTOR:	

LINE "D" - TOM MEADOWS ROAD
STA. 00+00 TO STA. 52+00

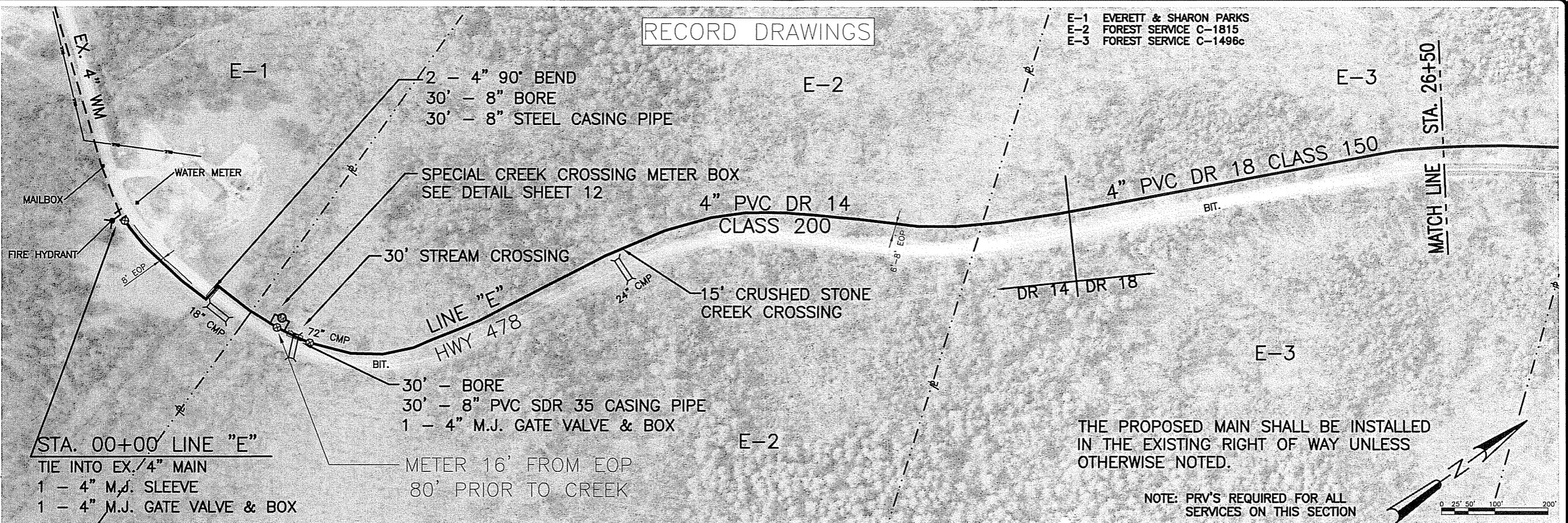
NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 McCreary County Water District
 WHITLEY CITY, KENTUCKY

SHEET
5

JOB NO 5-108.019

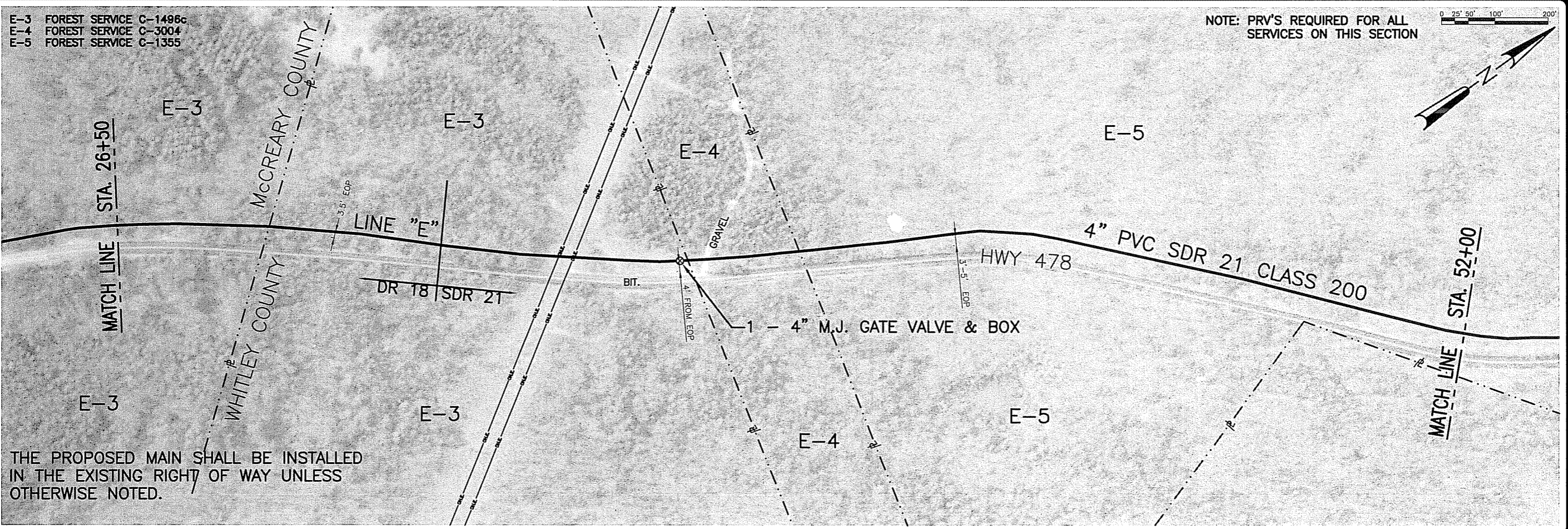
RECORD DRAWINGS

- E-1 EVERETT & SHARON PARKS
- E-2 FOREST SERVICE C-1815
- E-3 FOREST SERVICE C-1496c



THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION



NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION

THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

NO.	REVISIONS	DATE:

DATE: 12/2007
 DES BY: HEN CHK BY: MCA
 RECORD DRAWING
 BY: KTB
 DATE: 12/29
 CONTRACTOR:

LINE "E" - NEW LIBERTY ROAD
 STA. 00+00 TO STA. 52+00

NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 McCREARY COUNTY WATER DISTRICT
 WHITLEY CITY, KENTUCKY

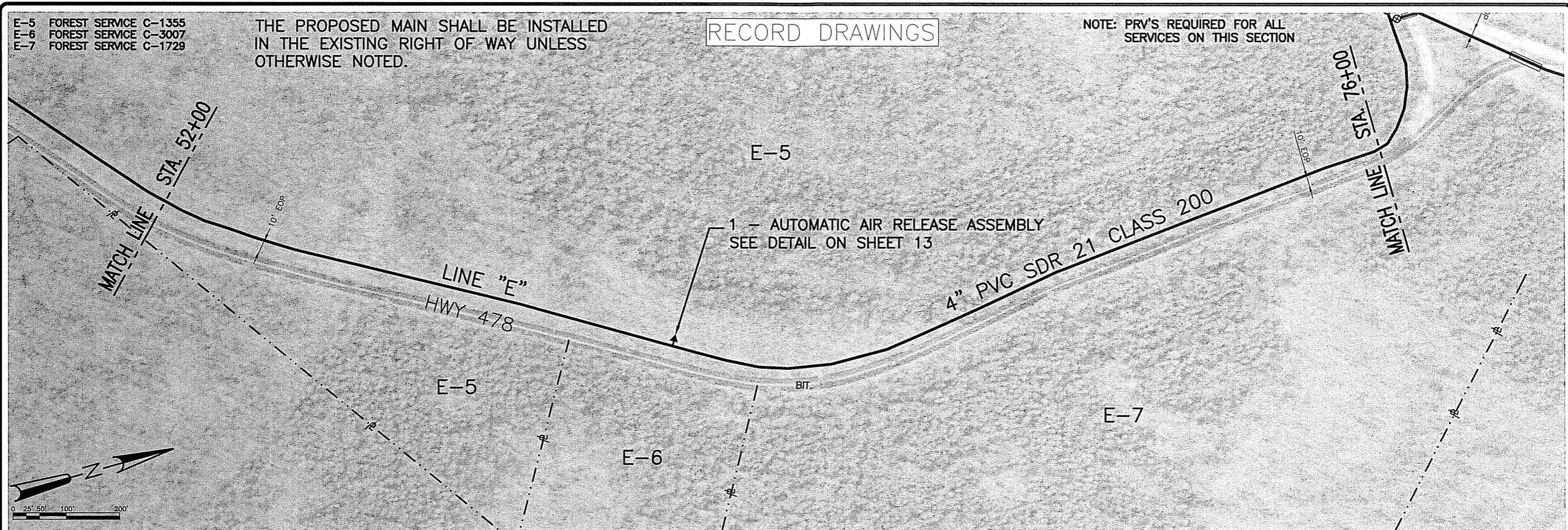


E-5 FOREST SERVICE C-1355
 E-6 FOREST SERVICE C-3007
 E-7 FOREST SERVICE C-1729

THE PROPOSED MAIN SHALL BE INSTALLED
 IN THE EXISTING RIGHT OF WAY UNLESS
 OTHERWISE NOTED.

RECORD DRAWINGS

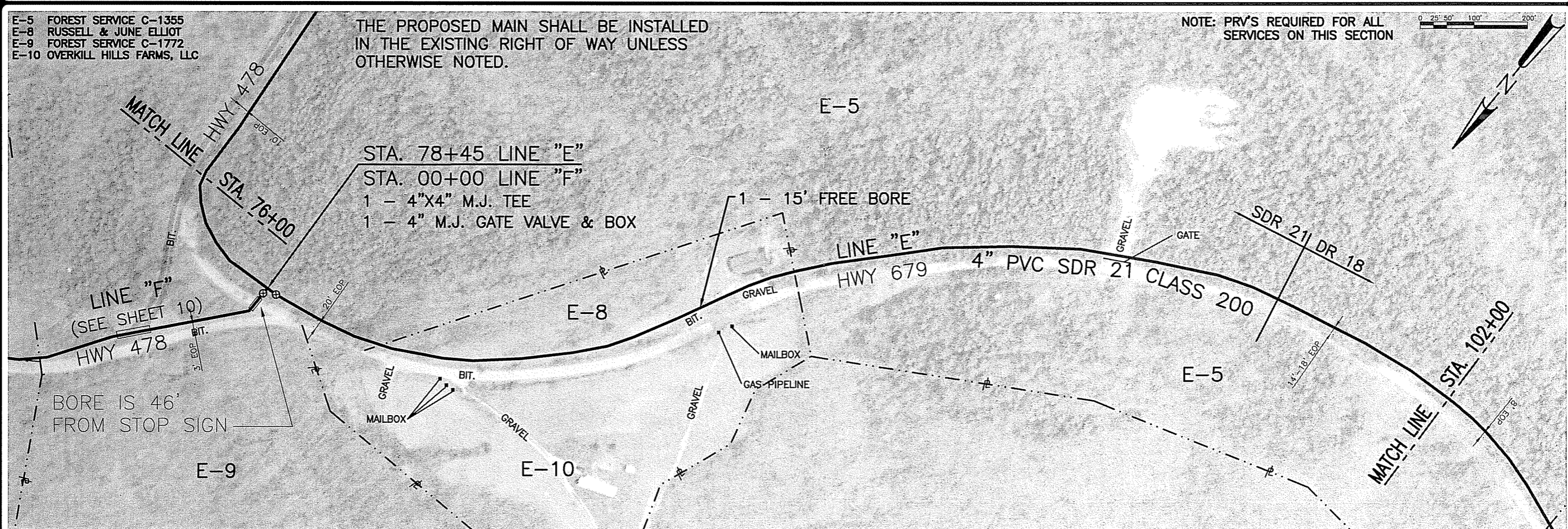
NOTE: PRV'S REQUIRED FOR ALL
 SERVICES ON THIS SECTION



E-5 FOREST SERVICE C-1355
 E-8 RUSSELL & JUNE ELLIOT
 E-9 FOREST SERVICE C-1772
 E-10 OVERKILL HILLS FARMS, LLC

THE PROPOSED MAIN SHALL BE INSTALLED
 IN THE EXISTING RIGHT OF WAY UNLESS
 OTHERWISE NOTED.

NOTE: PRV'S REQUIRED FOR ALL
 SERVICES ON THIS SECTION



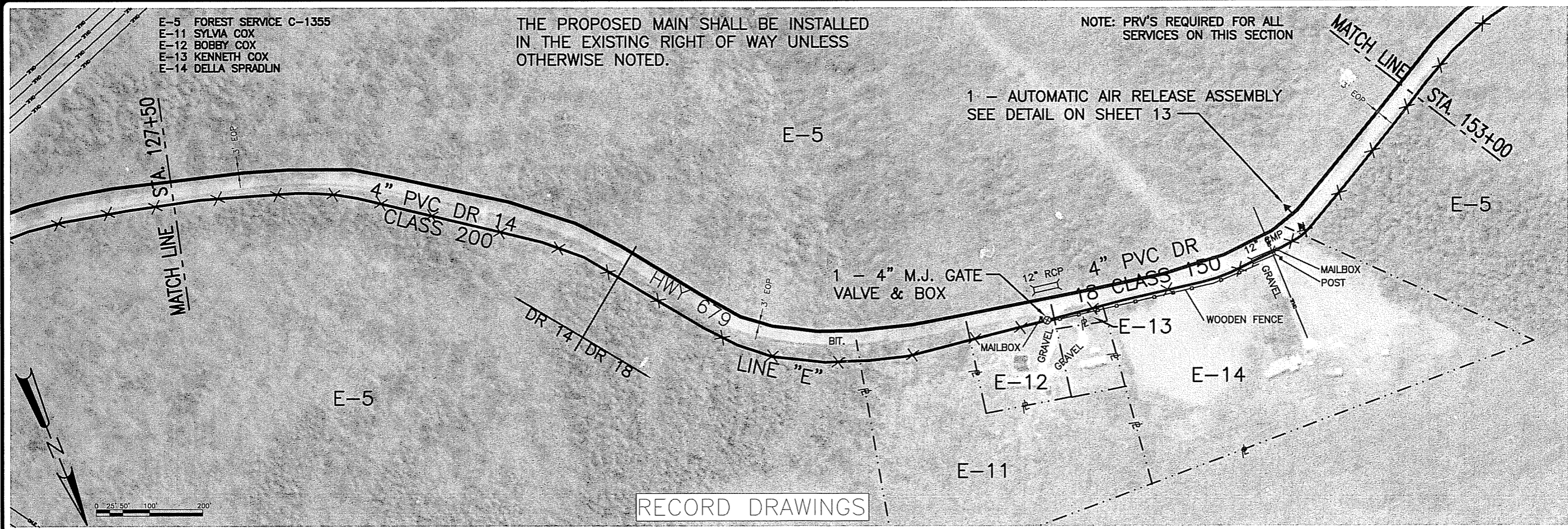
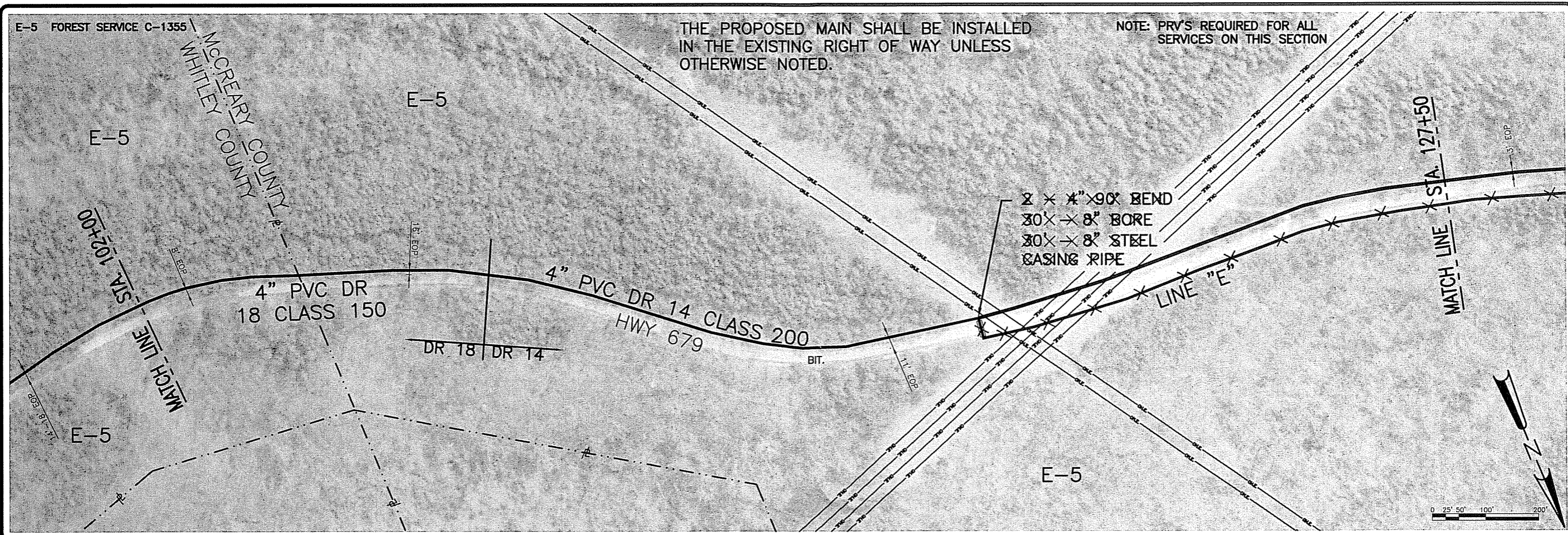
NO.	REVISIONS	DATE:

DATE: 12/2007
 DES BY: HEN CHK BY: MCA
 RECORD DRAWING
 BY: KTB
 DATE: 12/29
 CONTRACTOR:

LINE "E" - NEW LIBERTY ROAD
 STA. 52+00 TO STA. 102+00
 NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 McCREARY COUNTY WATER DISTRICT
 WHITLEY CITY, KENTUCKY



SHEET
7
 JOB NO. 5-108.019



THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION

THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION

1 - AUTOMATIC AIR RELEASE ASSEMBLY SEE DETAIL ON SHEET 13

RECORD DRAWINGS

NO.	REVISIONS	DATE

DATE: 12/2007
DES BY: HEN CHK BY: MCA
RECORD DRAWING
BY: KTB
DATE: 12/29
CONTRACTOR:

**LINE "E" - NEW LIBERTY ROAD
STA. 102+00 TO STA. 153+00**

NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
McCREARY COUNTY WATER DISTRICT
WHITLEY CITY, KENTUCKY

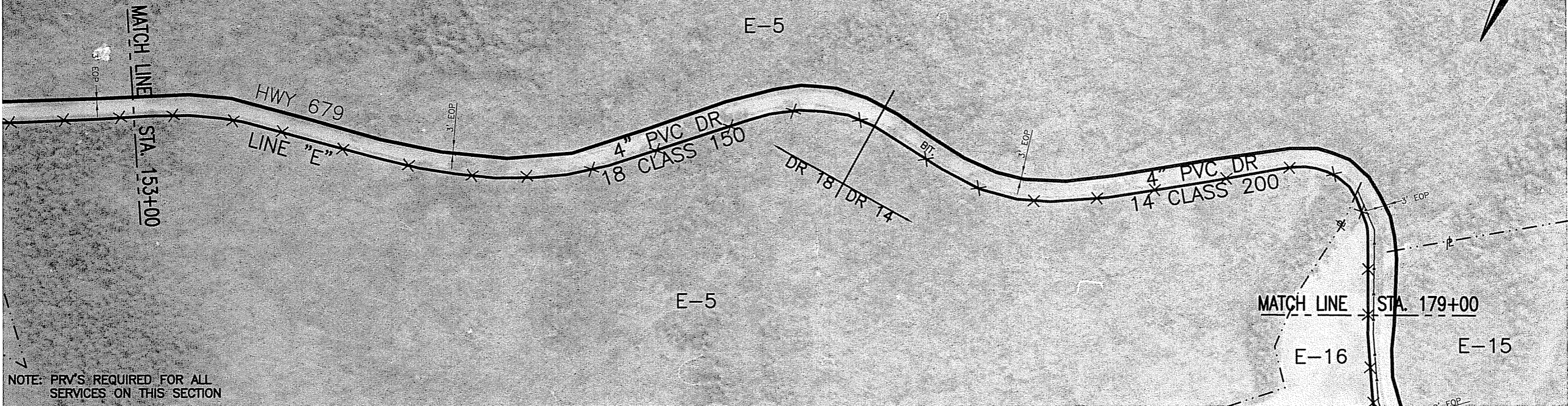


E-5 FOREST SERVICE C-1355
 E-15 FOREST SERVICE C-1733
 E-16 JAMES & IRENE LOUDERMILL

THE PROPOSED MAIN SHALL BE INSTALLED
 IN THE EXISTING RIGHT OF WAY UNLESS
 OTHERWISE NOTED.

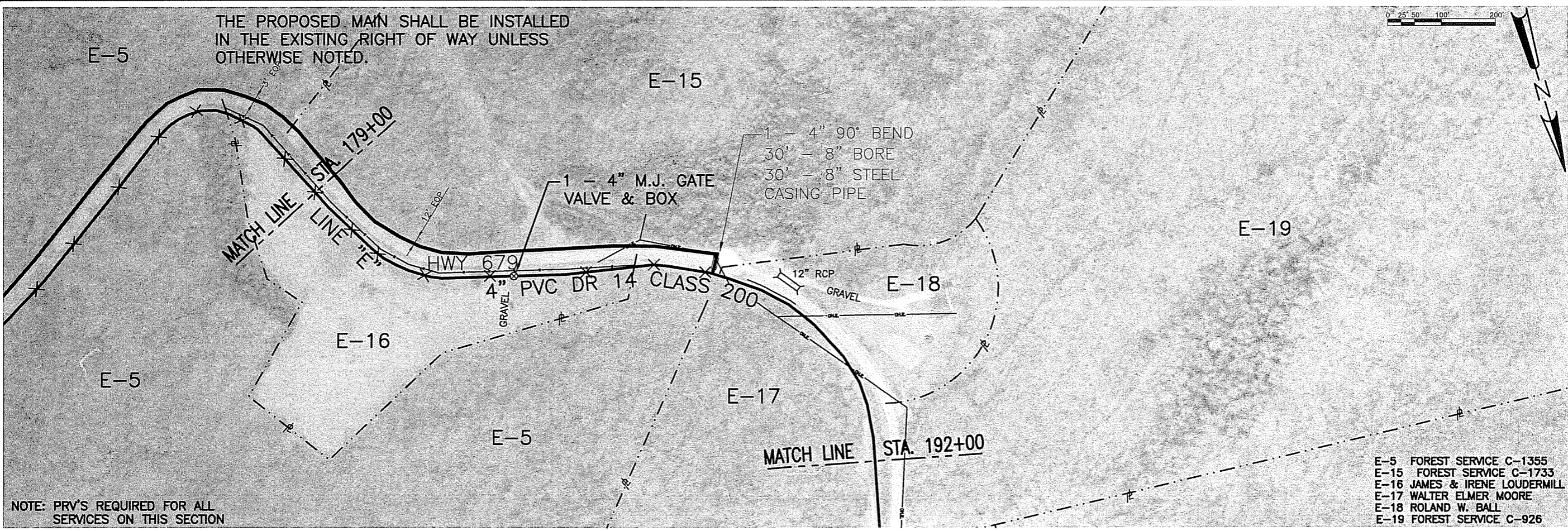
RECORD DRAWINGS

0' 25' 50' 100' 200'



NOTE: PRV'S REQUIRED FOR ALL
 SERVICES ON THIS SECTION

DATE:	
REVISIONS	
NO.	
DATE: 12/2007	DES BY: HEN CHK BY: MCA
RECORD DRAWING	
BY: KTB	DATE: 12/29
CONTRACTOR:	



THE PROPOSED MAIN SHALL BE INSTALLED
 IN THE EXISTING RIGHT OF WAY UNLESS
 OTHERWISE NOTED.

0' 25' 50' 100' 200'

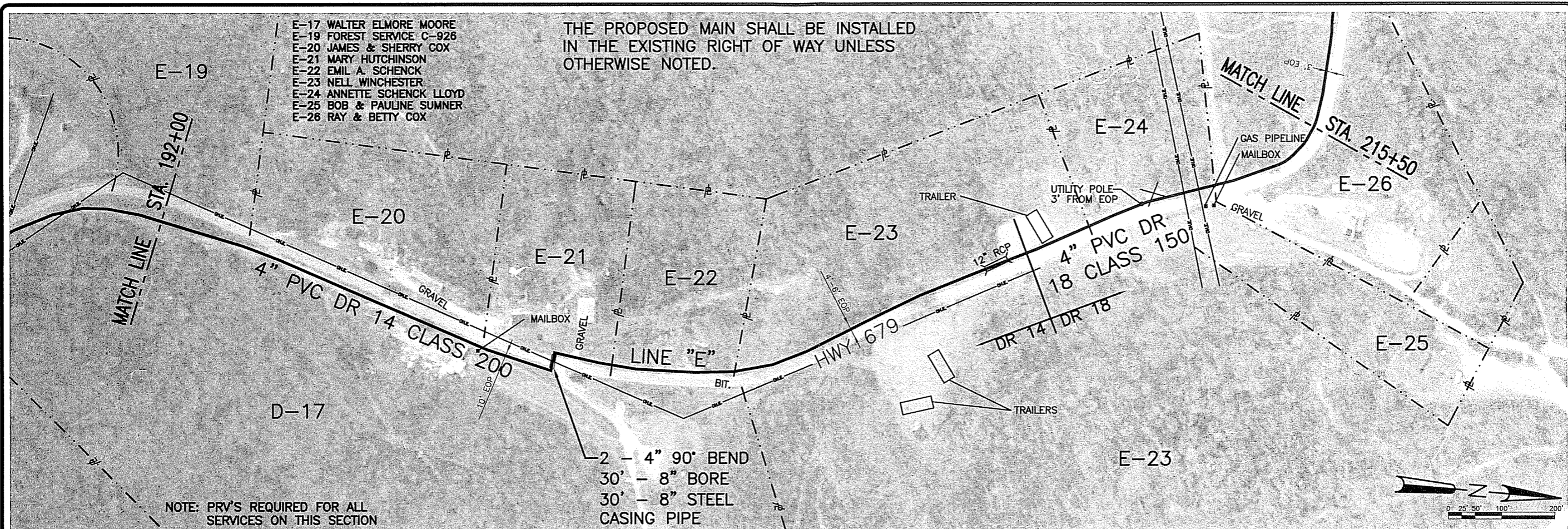
NOTE: PRV'S REQUIRED FOR ALL
 SERVICES ON THIS SECTION

E-5 FOREST SERVICE C-1355
 E-15 FOREST SERVICE C-1733
 E-16 JAMES & IRENE LOUDERMILL
 E-17 WALTER ELMER MOORE
 E-18 ROLAND W. BALL
 E-19 FOREST SERVICE C-926

LINE "E" - NEW LIBERTY ROAD
 STA. 153+00 TO STA. 192+00
 NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 McCREARY COUNTY WATER DISTRICT
 WHITLEY CITY, KENTUCKY



SHEET
 9
 JOB NO 5-108.019



- E-17 WALTER ELMORE MOORE
- E-19 FOREST SERVICE C-926
- E-20 JAMES & SHERRY COX
- E-21 MARY HUTCHINSON
- E-22 EMIL A. SCHENCK
- E-23 NELL WINCHESTER
- E-24 ANNETTE SCHENCK LLOYD
- E-25 BOB & PAULINE SUMNER
- E-26 RAY & BETTY COX

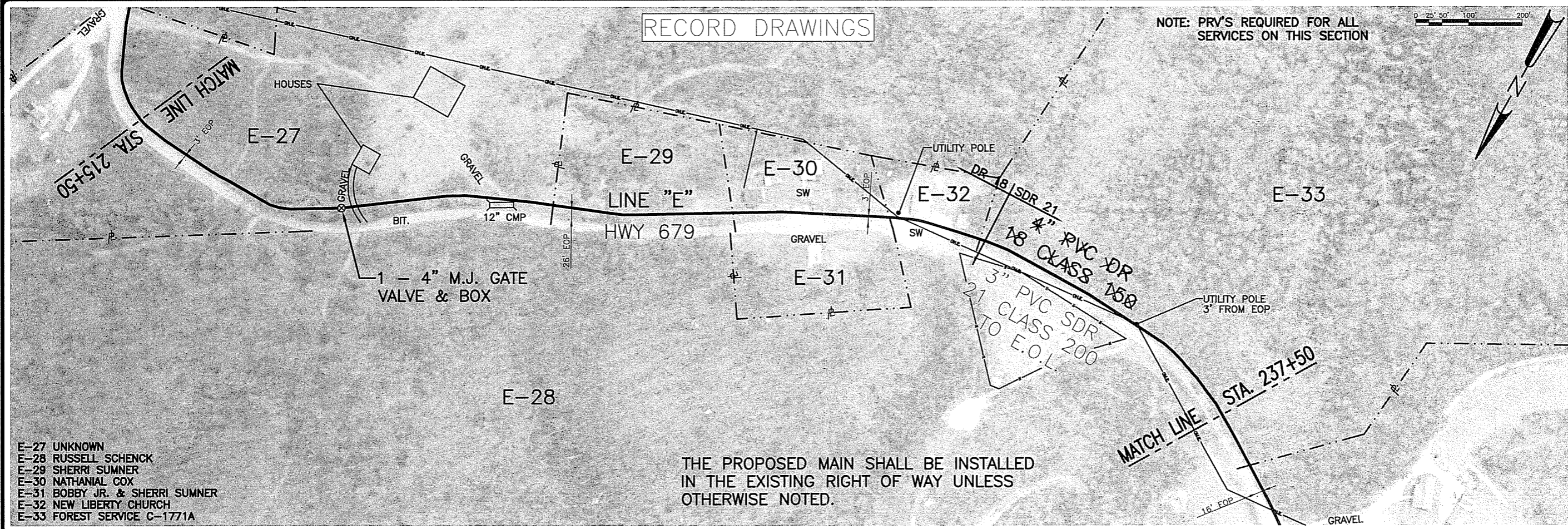
THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION

2 - 4" 90° BEND
 30' - 8" BORE
 30' - 8" STEEL CASING PIPE

NO.	REVISIONS	DATE:

DATE: 12/2007
 DES BY: HEN CHK BY: MCA
 RECORD DRAWING
 BY: KTB DATE: 12/29
 CONTRACTOR:



RECORD DRAWINGS

NOTE: PRV'S REQUIRED FOR ALL SERVICES ON THIS SECTION

- E-27 UNKNOWN
- E-28 RUSSELL SCHENCK
- E-29 SHERRI SUMNER
- E-30 NATHANIAL COX
- E-31 BOBBY JR. & SHERRI SUMNER
- E-32 NEW LIBERTY CHURCH
- E-33 FOREST SERVICE C-1771A

THE PROPOSED MAIN SHALL BE INSTALLED IN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE NOTED.

**LINE "E" - NEW LIBERTY ROAD
 STA. 192+00 TO STA. 237+50**

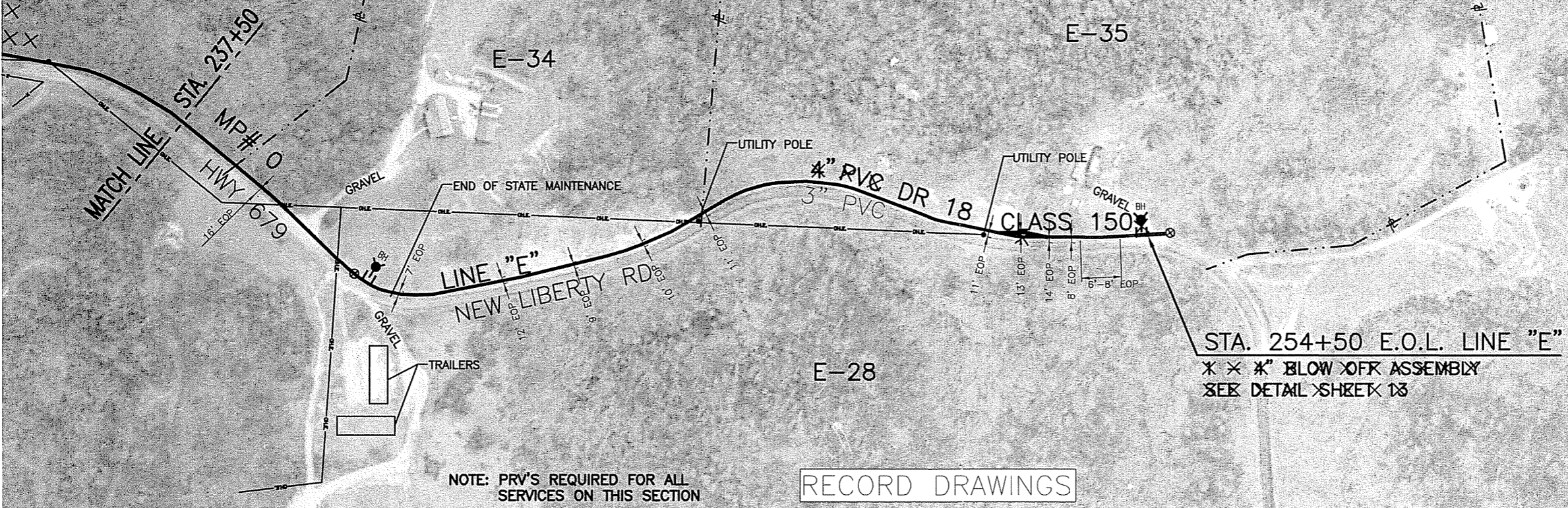
NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 McCREARY COUNTY WATER DISTRICT
 WHITLEY CITY, KENTUCKY



E-28 RUSSELL SCHENCK
 E-34 AREATHA & DAVID WEAVER
 E-35 FOREST SERVICE C-1051B

THE PROPOSED MAIN SHALL BE INSTALLED
 IN THE EXISTING RIGHT OF WAY UNLESS
 OTHERWISE NOTED.

0 25' 50' 100' 200'



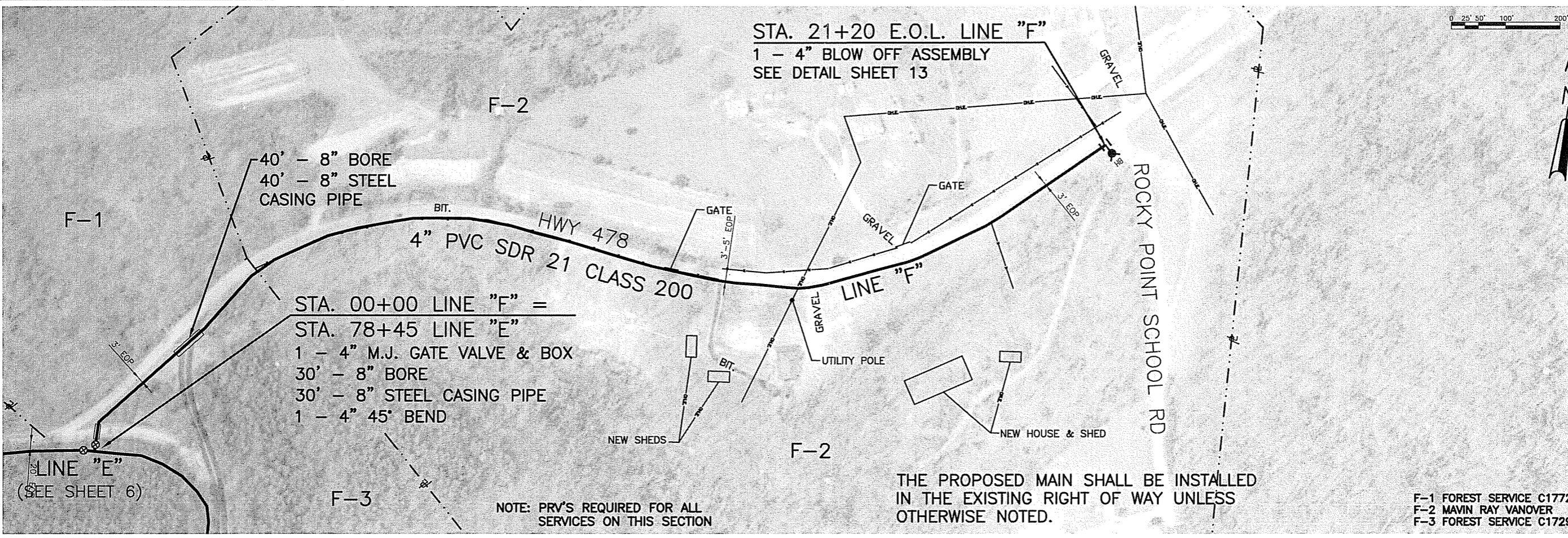
NOTE: PRV'S REQUIRED FOR ALL
 SERVICES ON THIS SECTION

RECORD DRAWINGS

STA. 254+50 E.O.L. LINE "E"
 * * * BLOW OFF ASSEMBLY
 SEE DETAIL SHEET 13

NO.	REVISIONS	DATE:

DATE: 12/2007
 DES BY: HEN CHK BY: MCA
 RECORD DRAWING
 BY: KTB DATE: 12/29
 CONTRACTOR:



STA. 21+20 E.O.L. LINE "F"
 1 - 4" BLOW OFF ASSEMBLY
 SEE DETAIL SHEET 13

0 25' 50' 100' 200'

STA. 00+00 LINE "F" =
 STA. 78+45 LINE "E"
 1 - 4" M.J. GATE VALVE & BOX
 30' - 8" BORE
 30' - 8" STEEL CASING PIPE
 1 - 4" 45° BEND

NOTE: PRV'S REQUIRED FOR ALL
 SERVICES ON THIS SECTION

THE PROPOSED MAIN SHALL BE INSTALLED
 IN THE EXISTING RIGHT OF WAY UNLESS
 OTHERWISE NOTED.

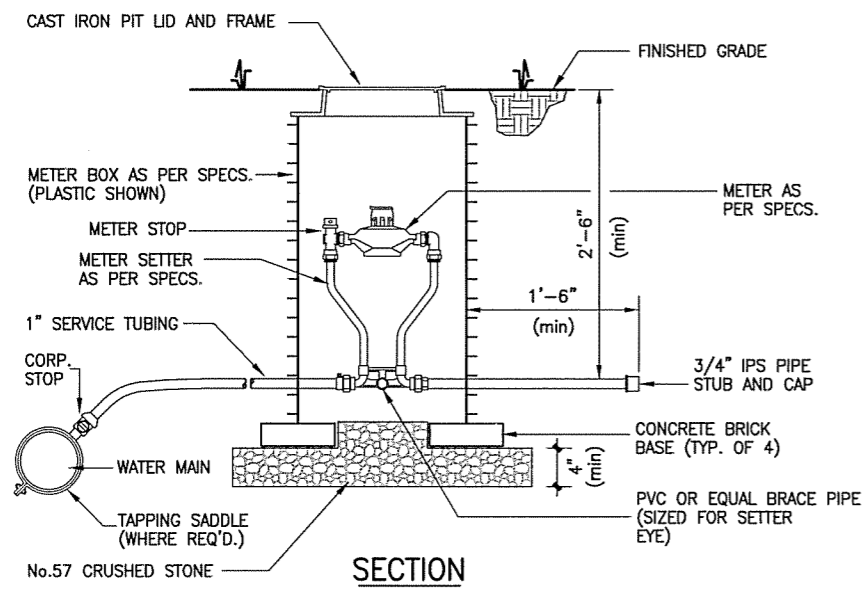
F-1 FOREST SERVICE C1772
 F-2 MAVIN RAY VANOVER
 F-3 FOREST SERVICE C1729

LINE "E" - NEW LIBERTY ROAD - STA. 237+50 TO STA. 254+50
 LINE "F" - KY 478 - STA. 00+00 TO STA. 21+20

NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
 MCGREARY COUNTY WATER DISTRICT
 WHITLEY CITY, KENTUCKY



SHEET
11
 JOB NO. 5-108.019

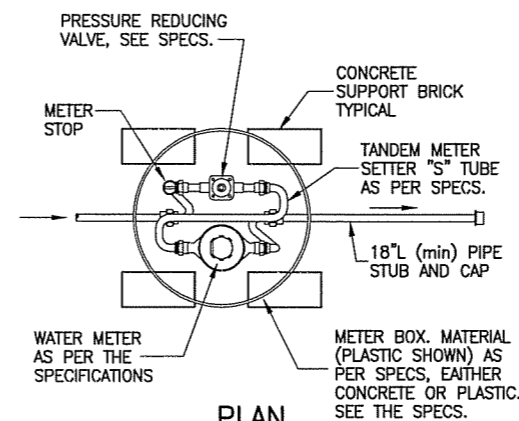


**TYPICAL METER SETTING
w/ PLASTIC
METER BOX**

NOT TO SCALE

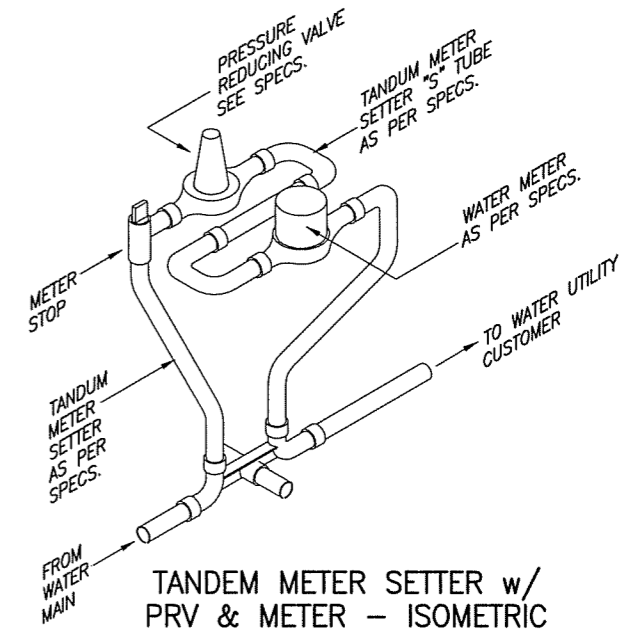
ITEMS INCLUDED IN TYPICAL METER SETTING:

01. 5/8"x3/4" METER
02. COPPER METER SETTER WITH OUTLET EXTENDED.
03. METER BOX, BOX EXTENTION (IF REQ'D.) AND COVER.
04. 1" SERVICE TUBING AS FOLLOWS:
10 FT. MAXIMUM, SAME SIDE OF ROAD AS MAIN.
70 FT. MAXIMUM OPPOSITE SIDE OF ROAD AS MAIN (PUSHED OR BORE & JACK UNDER ROAD).
05. 1" CORPORATION STOP.
06. TAPPING SADDLE (WHEN REQ'D.)
07. UNCLASSIFIED EXCAVATION AND BACKFILL.
08. COMPLETE AND IN PLACE.



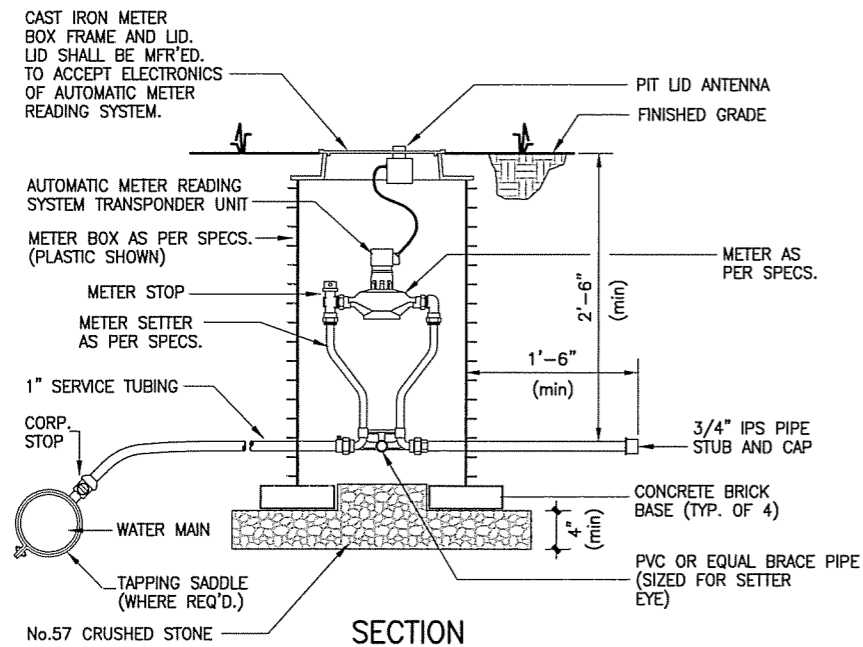
**TYPICAL METER SETTING
WITH PRESSURE
REDUCING VALVE**

NOT TO SCALE



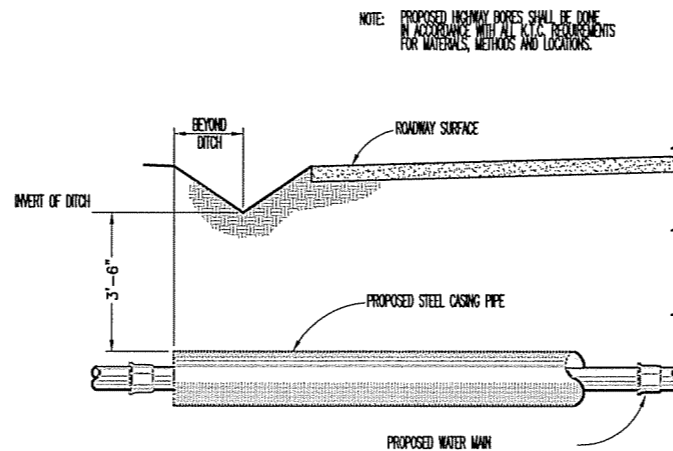
**TANDEM METER SETTER w/
PRV & METER - ISOMETRIC**

NOT TO SCALE



**TYPICAL METER SETTING
WITH AUTOMATIC
READING SYSTEM**

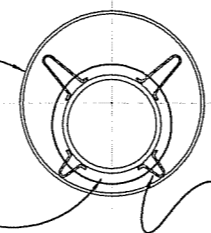
NOT TO SCALE



TYPICAL HIGHWAY BORE DETAIL

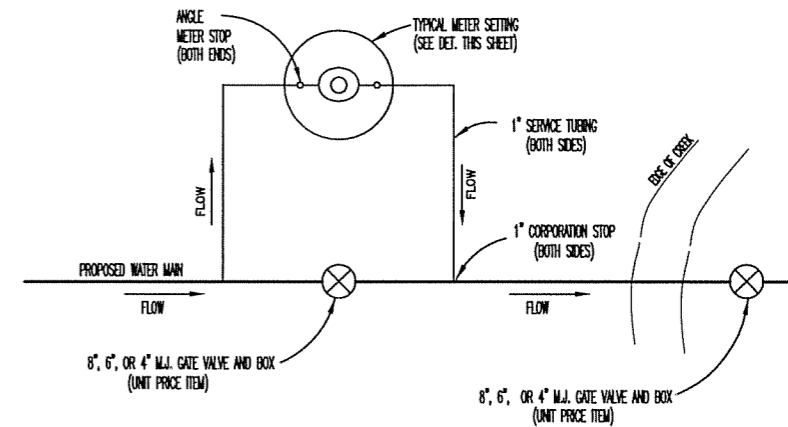
NOT TO SCALE

SEAMLESS STEEL
STANDARD WEIGHT
WALL
THICKNESS (min) CASING
PIPE w/ TWO (2) HEAVY
COATS OF BITUMASTIC PAINT
ON BOTH THE INTERIOR AND
EXTERIOR SURFACES OF THE
PROPOSED CASING PIPE.



SINGLE CARRIER PIPE CASING DETAIL

NOT TO SCALE



SPECIAL CREEK CROSSING METER BOX

NOT TO SCALE

NO.	REVISIONS	DATE:

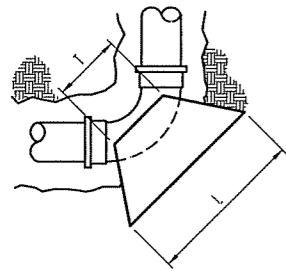
DATE: 12/2007
DES BY: RDT CHK BY: MCA
RECORD DRAWING
BY: KTB DATE: 12/29
CONTRACTOR:

STANDARD DETAILS 1

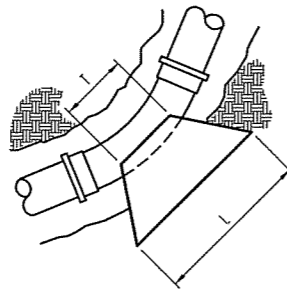
NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
McCREEKY COUNTY WATER DISTRICT
WHITLEY CITY, KENTUCKY



SHEET
12
JOB NO. 5-108.019



90 DEG. PLAN

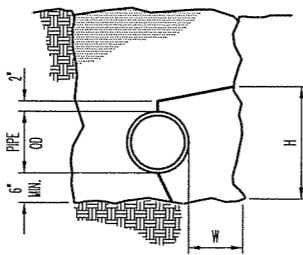


45 & 22 1/2 DEG. PLAN

90 DEG. BEND							
SIZE "D"	4"	6"	8"	10"	12"	14"	16" UP
W	8"	8"	10"	12"	12"	12"	1 DIA.
L	14"	24"	27"	30"	34"	40"	D + 30"
H	14"	16"	18"	20"	24"	26"	D + 12"
T	13"	16"	18"	20"	22"	30"	D + 18"

45 DEG. BEND							
SIZE "D"	4"	6"	8"	10"	12"	14"	16" UP
W	8"	8"	10"	12"	12"	12"	1 DIA.
L	14"	18"	20"	22"	24"	30"	D + 24"
H	14"	16"	18"	20"	24"	26"	D + 12"
T	13"	16"	16"	18"	18"	22"	D + 12"

22 1/2 DEG. BEND							
SIZE "D"	4"	6"	8"	10"	12"	14"	16" UP
W	8"	8"	10"	12"	12"	12"	1 DIA.
L	14"	18"	20"	22"	24"	30"	D + 24"
H	14"	16"	18"	20"	24"	26"	D + 12"
T	13"	16"	16"	18"	18"	22"	D + 12"

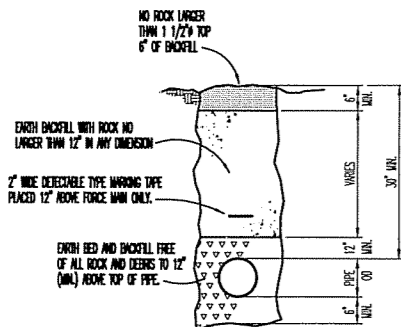


TYPICAL SECTION

NOTE:
ALL CONCRETE SHALL BE 3500 PSI MINIMUM
DEPTH "W" MAY BE GREATER OR LESS THAN SPECIFIED TO ALLOW WORKING SPACE.
THRUST BLOCK MUST BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.

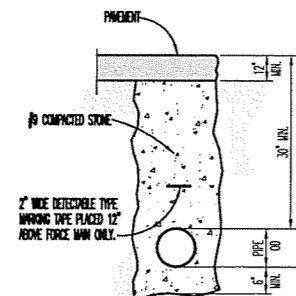
CONCRETE THRUST BLOCK DETAIL

NOT TO SCALE



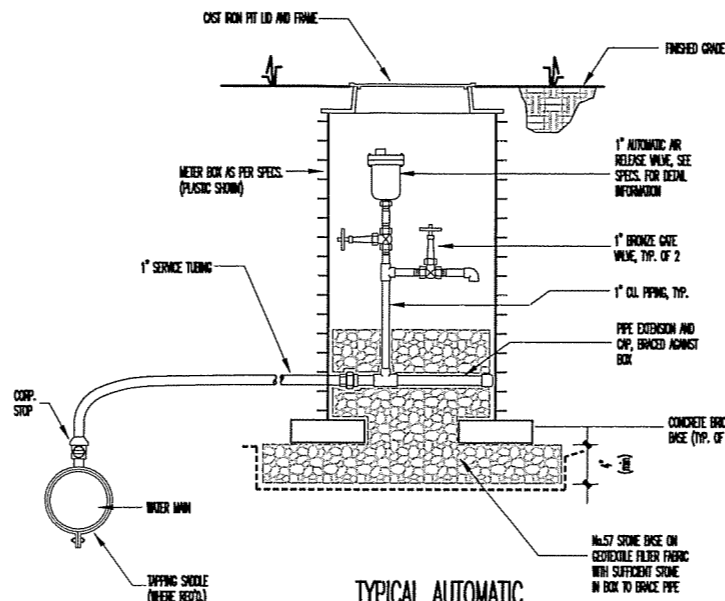
BEDDING AND BACKFILL FOR PRESSURE PIPES 3" AND LARGER

NOT TO SCALE



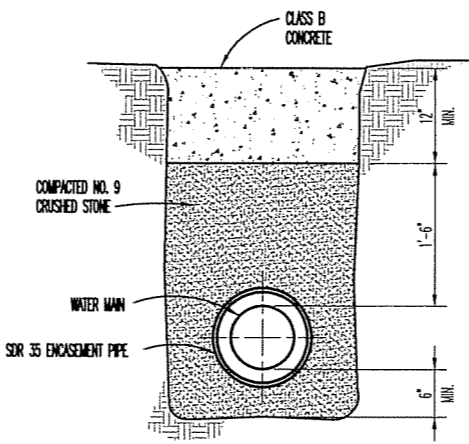
BEDDING AND BACKFILL FOR PRESSURE PIPES 3" AND LARGER UNDER ROADWAYS

NOT TO SCALE



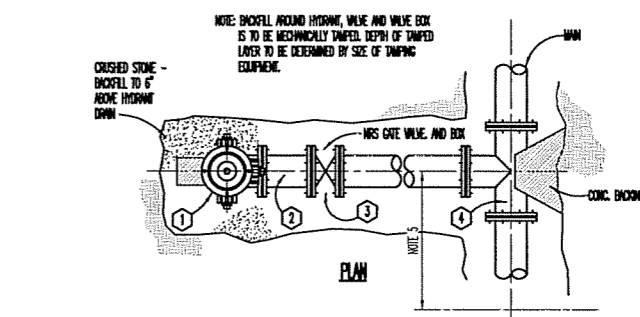
TYPICAL AUTOMATIC AIR RELEASE VALVE

NOT TO SCALE

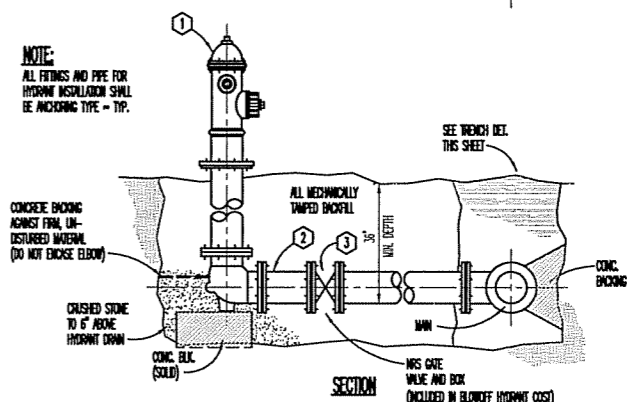


TYPICAL STREAM CROSSING WITH ENCASEMENT PIPE AND CONCRETE CAP

NOT TO SCALE



PLAN



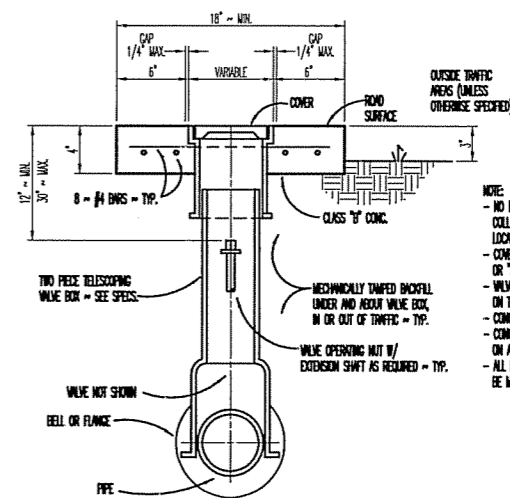
SECTION

HYDRANT ASSEMBLY SCHEDULE

FIRE HYD'T.	BLOWOFF HYD'T.
1 MULLER A-423, OR EQ.	A-422, OR EQ.
2 6" DIAMETER	4" DIAMETER
3 6" GATE VALVE	4" GATE VALVE
4 6" BRANCH	4" BRANCH OR LINE SIZE W/ REDUCER FOR 2" & 3" MAINS.
5 WHEN LINE GATE VALVES ARE SHOWN ON THE PLANS NEAR FIRE OR BLOWOFF HYDRANT ASSEMBLIES, THE CENTERLINE OF THE GATE VALVE TO THE CENTERLINE OF THE HYDRANT SHALL BE 5 FEET.	

TYPICAL FIRE OR BLOWOFF HYDRANT DETAIL

NOT TO SCALE



TYPICAL VALVE BOX

NOT TO SCALE

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BY: KTB
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CONTRACTOR:

STANDARD DETAILS 2
NEW LIBERTY WATER MAIN EXTENSIONS PROJECT
MCCREARY COUNTY WATER DISTRICT
WHITLEY CITY, KENTUCKY

