

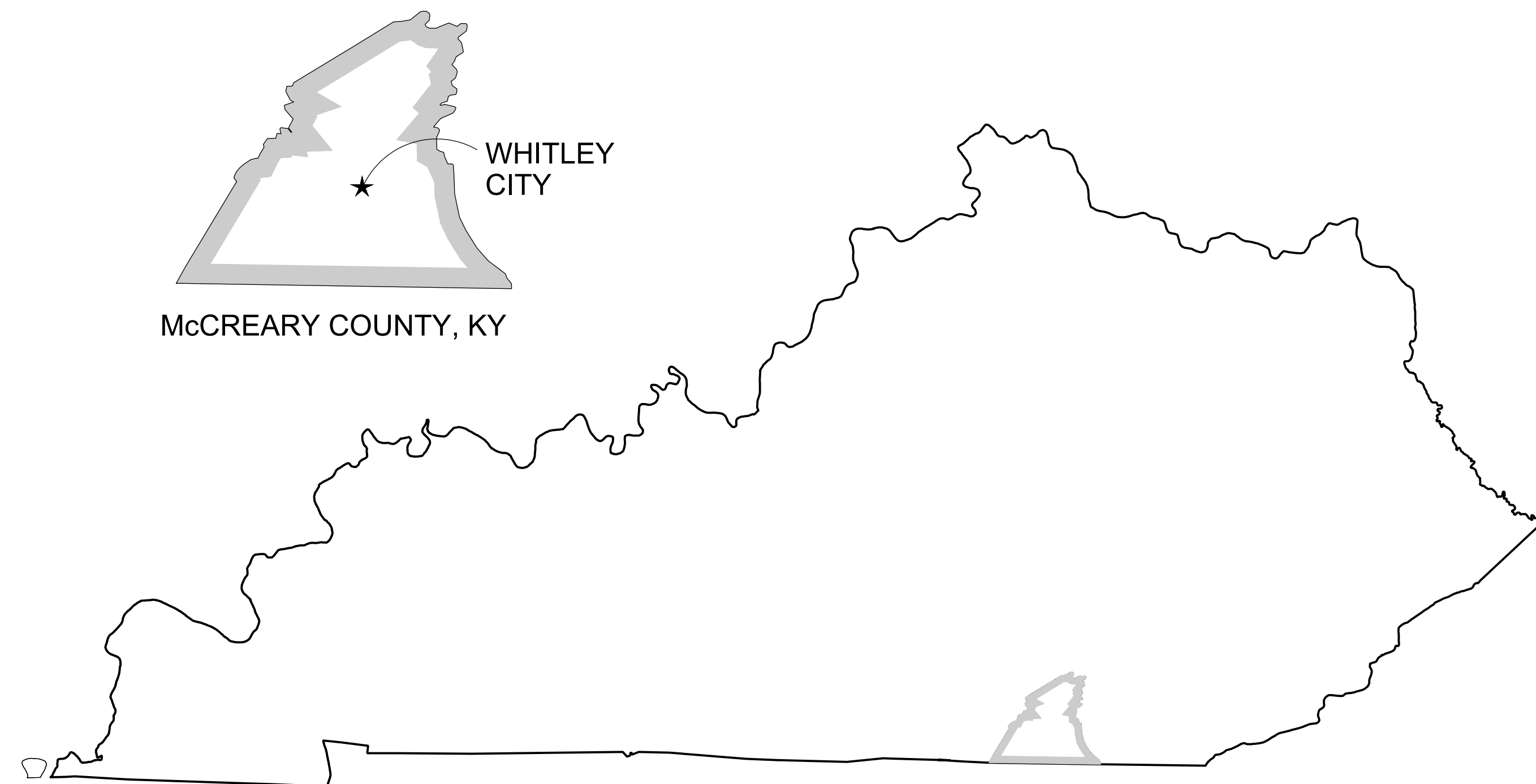
MARSH CREEK ROAD WATERLINE REPLACEMENT

DECEMBER 2020

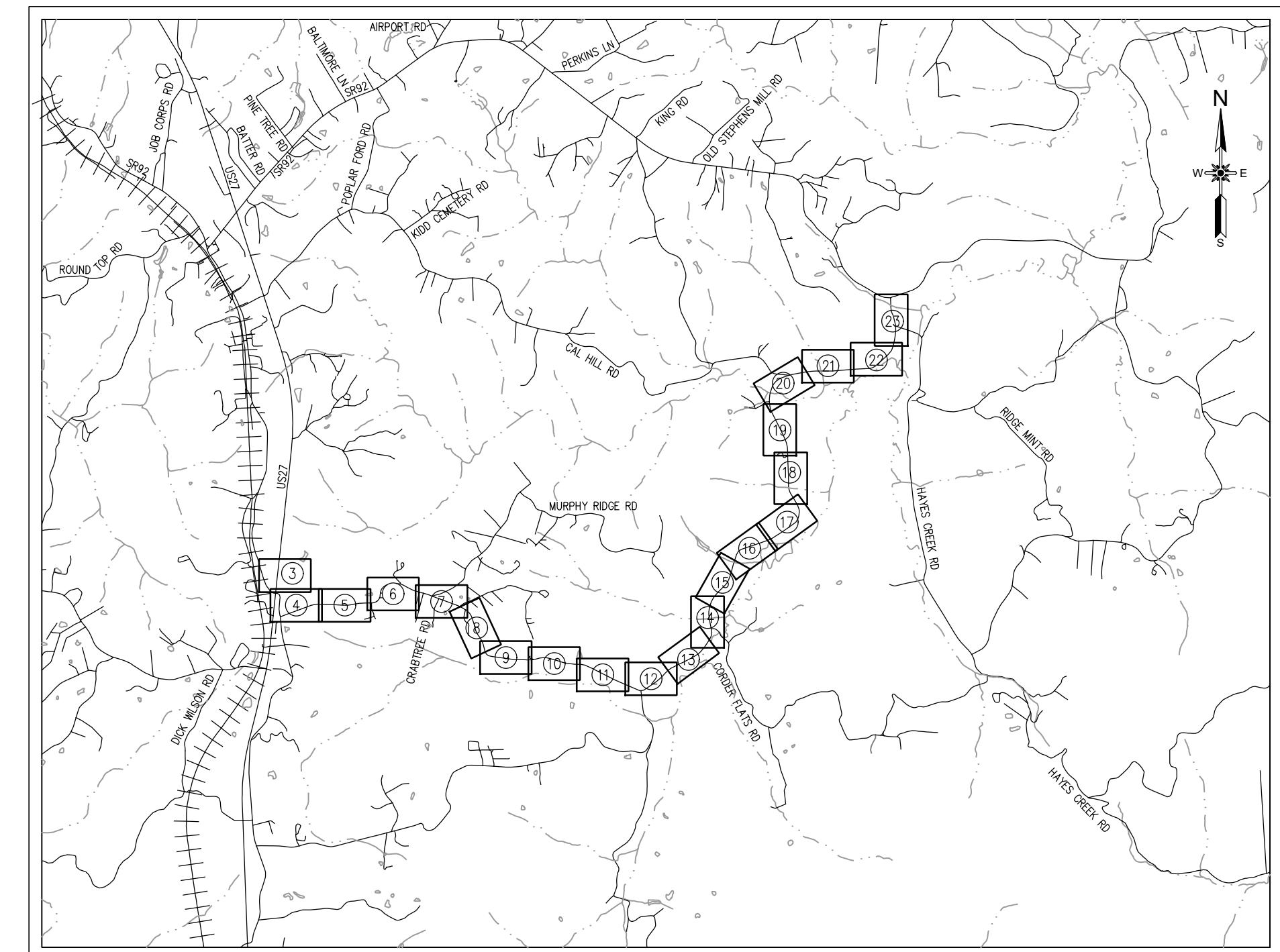
Prepared For:
McCREARY COUNTY WATER DISTRICT
456 NORTH HIGHWAY 27
WHITLEY CITY, McCREARY COUNTY, KY 42653

BOARD OF COMMISSIONERS

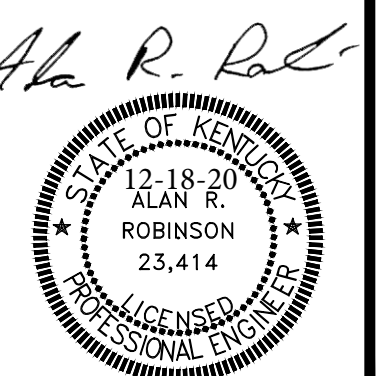
RANDY KIDD, CHAIRMAN
MAYNARD NEW
DOUG SEXTON
COY TAYLOR
RAYMOND TAYLOR
STEPHEN WHITAKER, SUPERINTENDENT



VICINITY MAP



SCALE: 1"=4000'



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GENERAL NOTES

- MINIMUM COVER OVER PROPOSED WATER AND SANITARY SEWER LINES SHALL BE 42". UNDERNEATH PROPOSED DITCHES SHALL BE 42" MIN.
- MINIMUM COVER OVER VALVE NUT TO BE 12". MAXIMUM COVER OVER VALVE NUTS TO BE 48". WHERE VALVES ARE BURIED DEEPER THAN 48", A 3/4" OR 1" SOLID STEEL VALVE OPERATING NUT EXTENSION SHALL BE REQUIRED AND SECURED TO VALVE OPERATING NUT.
- CONTRACTOR SHALL HAVE THE OWNER'S PERSONNEL ON SITE WHEN DIGGING OVER OR AROUND THE OWNER'S UTILITY LINES. CONTRACTOR SHALL SCHEDULE EXCAVATION WITH RESIDENT OBSERVER.
- EXACT SIZES, DEPTHS, MATERIALS AND LOCATIONS OF EXISTING UTILITIES ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THESE FAR ENOUGH IN ADVANCE OF THE PIPELINE OPERATION SO AS NOT TO CAUSE ANY UNNECESSARY DELAYS. RELOCATION OF EXISTING UTILITIES FOUND TO BE IN DIRECT CONFLICT AND UNAVOIDABLE PER THE ENGINEER'S DISCRETION WITH THIS CONTRACT SHALL BE ACCOMPLISHED BY THE OWNER OF THE UTILITIES INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES HAVING UTILITIES IN THE AREA PRIOR TO EXCAVATION. CONTINUOUS COMMUNICATIONS ON A DAY TO DAY BASIS WILL BE REQUIRED. THE UTILITY COMPANIES ARE LISTED BELOW.
- KENTUCKY STATUTES (KRS 367.4901 THRU 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL CALL ALL UTILITY COMPANIES IN THE AREA AND AN UNDERGROUND PROTECTION SERVICE SUCH AS "BUD" (1-800-752-6007) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO NOTIFY UTILITY COMPANIES IN THE AREA WITH UNDERGROUND UTILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.
- FITTINGS SHALL BE RESTRAINED JOINT (R.J) WHERE NOTED ON PLANS.
- WHEREVER POSSIBLE, FIRE HYDRANTS SHALL BE LOCATED FOR MINIMUM DEPTH OF BURY. EXTENSIONS SHALL BE REQUIRED FOR DEEPER INSTALLATIONS.
- ALL TIE-IN LOCATIONS SHALL BE UNCOVERED PRIOR TO CONSTRUCTION TO MAINTAIN PROPER ALIGNMENT AND ELEVATION OF NEW CONNECTIONS.
- CONTRACTOR SHALL INVENTORY REQUIRED MATERIALS, TRENCH DEWATERING EQUIPMENT, AND ASSEMBLE IF NECESSARY ALL REQUIRED FITTINGS PRIOR TO CUT-INS SO TO ENSURE MINIMUM DOWN TIME FOR CONNECTION.
- SURFACE DRAINAGE SHALL BE MAINTAINED ON A DAY-BY-DAY BASIS.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF OR REGRADE ALL EXCESS EXCAVATED MATERIAL FROM WATER LINE AND SERVICE LINE CONSTRUCTION THAT IS NOT PERMITTED TO BE BACKFILLED OVER THE PIPE.
- EXCAVATION IN ALL STREETS, DRIVEWAYS AND PAVED PARKING AREAS SHALL BE BACKFILLED PER THE SPECIFIED TOP OF TRENCH SURFACE.
- ALL ROCKS, EARTH CLODS AND OTHER LARGE MATERIAL SHALL BE REMOVED FROM THE TRENCH BOTTOM PRIOR TO PLACEMENT OF THE BEDDING.
- ALL CULVERTS AND CROSS DRAINS AT STREETS, DRIVES AND ENTRANCES NEAR THE WORK AREA SHALL BE PROTECTED. IF IN THE PATH OF THE WORK, THE RESIDENT OBSERVER SHALL BE NOTIFIED, AND THE CONTRACTOR SHALL AVOID THESE UTILITIES WITH ADDITIONAL FITTINGS IF NECESSARY.
- MAPPING AND ELEVATION DATA ORIGINATED FROM THE KENTUCKY DEPARTMENT OF HIGHWAYS.
- PROPERTY LINE AND RIGHT-OF-WAY INFORMATION WAS TAKEN FROM THE KENTUCKY DEPARTMENT OF HIGHWAYS ROADWAY DESIGN AND/OR THE COUNTY PVA.
- EXCAVATION IS UNCLASSIFIED; NO SEPARATE PAYMENT SHALL BE MADE FOR ROCK REMOVAL.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL COMMERCIAL ESTABLISHMENTS AND RESIDENTIAL DWELLINGS.
- BENCHMARKS/CONTROL POINTS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THESE POINTS FOR LAYOUT OF THE PROPOSED WORK IN COORDINATION WITH THE ENGINEER.
- NO SEPARATE PAY ITEM HAS BEEN ESTABLISHED FOR FITTINGS AND NO DETERMINATION OF THE NUMBER OF FITTINGS REQUIRED ON THE JOB HAS BEEN MADE. THE CONTRACTOR, DURING THE BIDDING PHASE, SHALL DETERMINE THE NUMBER OF FITTINGS REQUIRED ON THE JOB AND INCLUDE THE COST OF THE FITTINGS AND INSTALLATION IN THE CONTRACT UNIT PRICE PER LF OF PIPE.
- SILT CHECKS/FENCES SHALL BE PROVIDED TO PREVENT SEDIMENT RUNOFF FROM ENTERING DRAINAGE SYSTEMS. SILT CHECKS SHALL BE INSTALLED PER SPECS.
- CONTRACTOR SHALL REPAIR OR REPLACE AREAS OF ROADS AND DRIVEWAYS DAMAGED DURING CONSTRUCTION.
- ALL NON-PAVED DISTURBED AREAS SHALL BE REVEGETATED AFTER WORK IN THE IMMEDIATE VICINITY HAS BEEN COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS. REVEGETATION SHALL BE COMPLETED NO LATER THAN TWO (2) WEEKS FOLLOWING COMPLETION OF WORK IN THE IMMEDIATE VICINITY.
- ANY ADJUSTMENT OR RELOCATIONS OF EXISTING UTILITIES, OUTSIDE THE SCOPE OF THIS WORK SHALL BE PERFORMED BY OTHERS. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT EXISTING UTILITIES TO THE MAXIMUM EXTENT PRACTICABLE. THE CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER TO MINIMIZE DISRUPTION OF EXISTING SERVICES. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER 2 DAYS IN ADVANCE OF ANY WORK WHICH REQUIRES EXISTING UTILITIES TO BE TAKEN OUT OF SERVICE.
- MUD, SEDIMENT, AND OTHER CONSTRUCTION DEBRIS TRACKED FROM ACTIVE CONSTRUCTION AREAS ONTO ROADWAYS ARE TO BE SWEEPED FROM THE ROADWAY AT THE END OF EACH WORK DAY.

LEGEND

EXISTING FEATURES	PROPOSED FEATURES
EX. PROPERTY LINES/RIGHT-OF-WAY	PROP. WATERLINE
EX. UNDERGROUND ELECTRIC LINE	PROP. GRAVITY SEWER
EX. UNDERGROUND TELEPHONE LINE	PROP. SANITARY SEWER FORCE MAIN
EX. GAS LINE	PROP. STORM SEWER PIPE
EX. WATERLINE	PROP. FENCE
EX. GUARDRAIL	PROP. INTERMEDIATE CONTOUR
EX. ROAD	PROP. INDEX CONTOUR
EX. GRAVITY SEWER	PROP. SANITARY SEWER MANHOLE
EX. SANITARY SEWER FORCE MAIN	PROP. WATER METER
EX. STORM SEWER PIPE	PROP. WATER VALVE
EX. FENCE	PROP. FIRE HYDRANT
EX. INTERMEDIATE CONTOUR	PROP. REDUCER
EX. INDEX CONTOUR	PROP. LINE BAP
EX. STREAM	PROP. HIGHWAY CONSTRUCTION LIMITS
BENCHMARK/CONTROL POINT	PROP. RIGHT-OF-WAY
EX. SANITARY SEWER MANHOLE	PROP. SANITARY SEWER CLEANOUT
EX. AIR RELEASE VALVE	
EX. SANITARY SEWER CLEANOUT	
EX. HEADWALL	
EX. TREES	
EX. POWER POLE	
EX. GUY WIRE	
EX. GAS METER	
EX. GAS VALVE	
EX. WATER METER	
EX. WATER VALVE	
EX. FIRE HYDRANT	

UTILITIES

TELEPHONE :
 HIGHLAND TELEPHONE CO-OP
 26 CRIT KING ROAD
 WHITLEY CITY, KENTUCKY 42653
 MR. JAKE DIDEN
 PHONE (606)376-7496

POWER :
 SOUTH KENTUCKY RECC
 51 CENTERS AVENUE
 WHITLEY CITY, KENTUCKY 42653
 PHONE (606)376-5997

GAS :
 CITI POWER LLC
 37 COURT STREET
 WHITLEY CITY, KENTUCKY 42653
 MR. BILL WEBB
 PHONE (606)376-8373

FIBER OPTIC :
 BLUEGRASS CELLULAR
 57 OAKS LANE SUITE 9
 WHITLEY CITY, KENTUCKY 42653
 PHONE (606)376-4200

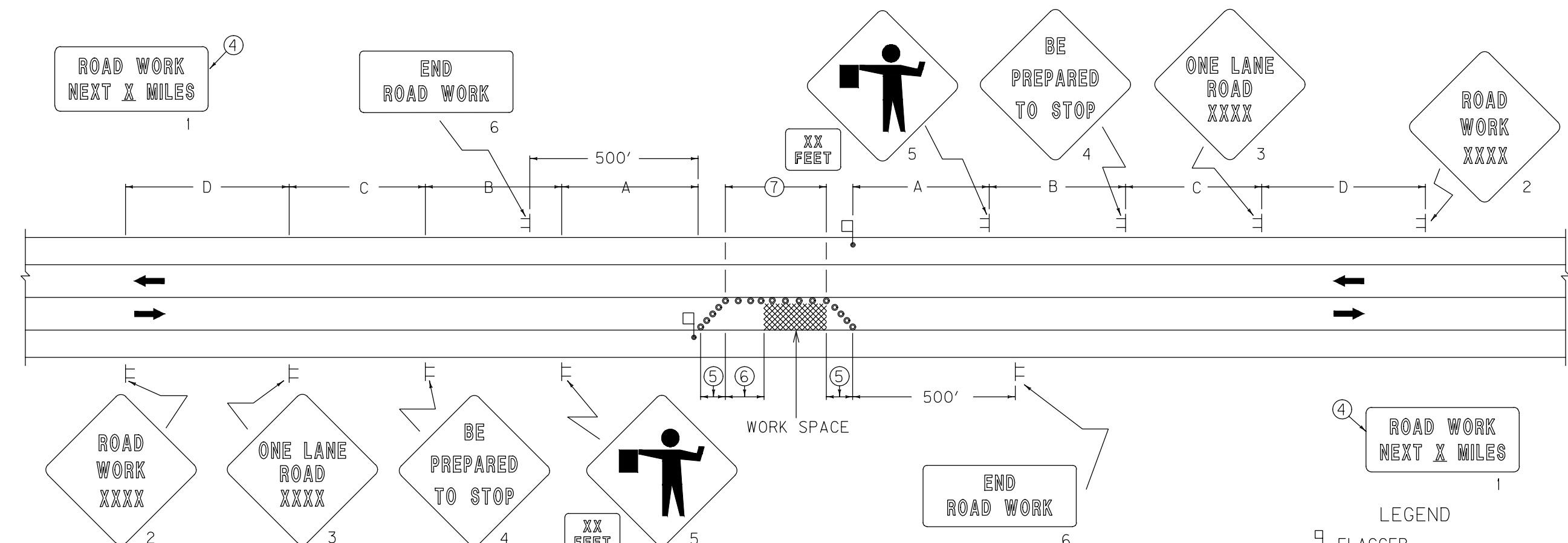
WATER :
 McCREARY COUNTY WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KENTUCKY 42653
 STEPHEN WHITAKER
 PHONE (606)376-2540

CABLE :
 ACCESS CABLE TV
 57 OAKS LANE #4
 WHITLEY CITY, KENTUCKY 42653
 PHONE (606)376-7373

SANITARY SEWER :
 McCREARY COUNTY WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KENTUCKY 42653
 STEPHEN WHITAKER
 PHONE (606)376-2540

ABBREVIATIONS

AV	AIR/VACUUM VALVE	LA	LATERAL ASSEMBLY
B	BOTTOM	MH	MANHOLE
C.I.	CAST IRON	MAX.	MAXIMUM
C	CENTERLINE	M.J.	MECHANICAL JOINT
CMP	CORRUGATED METAL PIPE	MIN.	MINIMUM
CO	CLEAN OUT	OC	OPEN CUT
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CONST.	CONSTRUCT	P.E.	POLYETHYLENE
CPP	CORRUGATED PLASTIC PIPE	PROP.	PROPOSED
D	DRAIN	PV	PLUG VALVE
DB	DIRECTIONAL BORE	PVC	POLYVINYL CHLORIDE
DIA, Ø	DIAMETER	RCP	REINFORCED CONC. PIPE
D.I.	DUCTILE IRON	REINF.	REINFORCE(D)
D.I.P.	DUCTILE IRON PIPE	REQ.	REQUIRED
DIST.	DISTURBED	R.-J.	RESTRAINT JOINT
EL. , ELEV.	ELEVATION	RW	RAW WATER
EOP	EDGE OF PAVEMENT	SCHED.	SCHEDULE
EX. , EXIST.	EXISTING	S.S.	SANITARY SEWER
FH	FIRE HYDRANT	ST	SEPTIC TANK
FLH	FLUSHING HYDRANT	STL.	STEEL
FM	FORCE MAIN	T	TOP
F.V.	FIELD VERIFY	T.B.A.	TO BE ABANDONED
FC	FLUSHING CONNECTION	T.B.R.	TO BE REMOVED
GAL.	GALLON	T.R.	TO REMAIN
GALV	GALVANIZED	TS & V	TAPPING SLEEVE AND VALVE
GL	GAS LINE	TYP.	TYPICAL
GM	GAS METER	U.N.O.	UNLESS NOTED OTHERWISE
GS	GAS SERVICE LINE	VCP	VITRIFIED CLAY PIPE
GV	GATE VALVE	VERT.	VERTICAL
HDPE	HIGH-DENSITY POLYETHYLENE	W	WATER LINE
I.E.	INVERT ELEVATION	WLM	WATER LINE MARKER
INV.	INVERT	WM	WATER METER
KDOH	KENTUCKY DEPARTMENT OF HIGHWAYS	WS	WATER SERVICE LINE
		UE	UNDERGROUND ELECTRIC
		DB	DIRECTIONAL BORE



- ~ NOTES ~
- THE SIZE OF SIGNS 2 THRU 5 SHALL BE 48" X 48" WITH 30" X 24" SUPPLEMENTAL PLAQUES FOR EXPRESSWAYS/FREEWAYS. THE MINIMUM SIZE OF SIGNS 2 THRU 5 SHALL BE 36" X 36" WITH 24" X 18" SUPPLEMENTAL PLAQUES FOR OTHER ROADWAYS. SIGN NOS. 1 AND 6 SHALL BE 48" X 24" FOR EXPRESSWAYS/FREEWAYS AND 36" X 18" FOR OTHER ROADWAYS. A FREEWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS. AN EXPRESSWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
 - THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATIONS SHALL BE LOCATED FAR ENOUGH IN ADVANCE OF THE ACTIVITY AREA SO THAT APPROACHING ROAD USERS WILL HAVE SUFFICIENT DISTANCE TO STOP BEFORE ENTERING THE WORK SPACE. ILLUMINATION SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT.
 - DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES OR TUBULAR MARKERS IF CLOSURE EXTENDS INTO NIGHTTIME HOURS.
 - SIGN NO. 1 SHOULD BE INSTALLED AT THE LIMITS OF THE PROJECT WHEN THE CONSTRUCTION ZONE IS LONGER THAN TWO MILES IN LENGTH. THE DISTANCE SHOWN SHALL BE STATED TO THE NEAREST WHOLE MILE.
 - TAPERS SHALL BE 50' (MIN) TO 100' (MAX) IN LENGTH. SPACING OF CHANNELIZING DEVICES SHOULD BE 20' THRU THE TAPER AREAS.
 - BUFFER SPACE (OPTIONAL). IF USED, THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES. REFER TO TABLE 6C-2 OF THE MUTCD FOR GUIDANCE ON BUFFER SPACE LENGTH.
 - SPACING OF CHANNELIZING DEVICES THRU THE ACTIVITY AREA SHOULD BE 80'. ON ROADWAYS WITH WIDTHS LESS THAN 20 FEET, CHANNELIZING DEVICES MAY BE OMITTED THRU THE ACTIVITY AREA BASED ON ENGINEERING JUDGMENT.
 - WHEN NIGHTTIME WORK IS BEING PERFORMED, FLOODLIGHTS SHOULD BE USED TO ILLUMINATE THE WORK AREA.

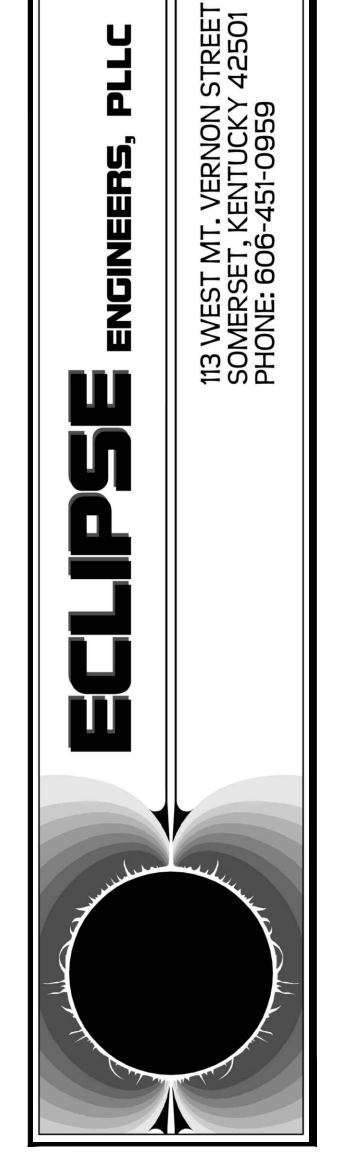
ROAD TYPE	A	B	C	D
EXPRESSWAY/ FREEWAY	1000'	500'	1100'	2600'
SP. LT. ≥ 45 MPH*	500'	500'	500'	1100'
SP. LT. ≤ 40 MPH*	250'	250'	250'	250'

*NOTE: USE NORMAL POSTED SPEED LIMIT

APPLICATION
 THIS DRAWING APPLIES TO LANE CLOSURES ON TWO-LANE, TWO DIRECTION HIGHWAYS.

LANE CLOSURE - TWO-LANE HIGHWAY

NOT TO SCALE

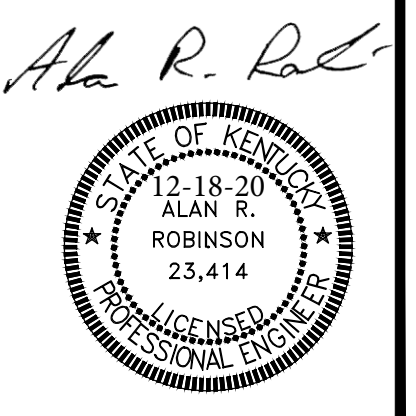


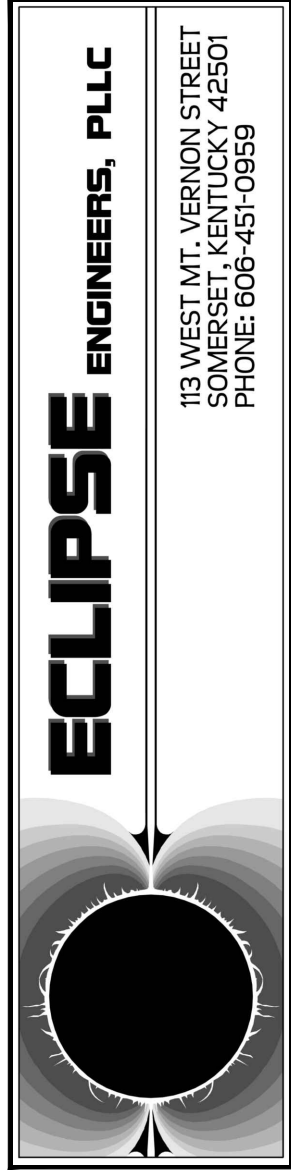
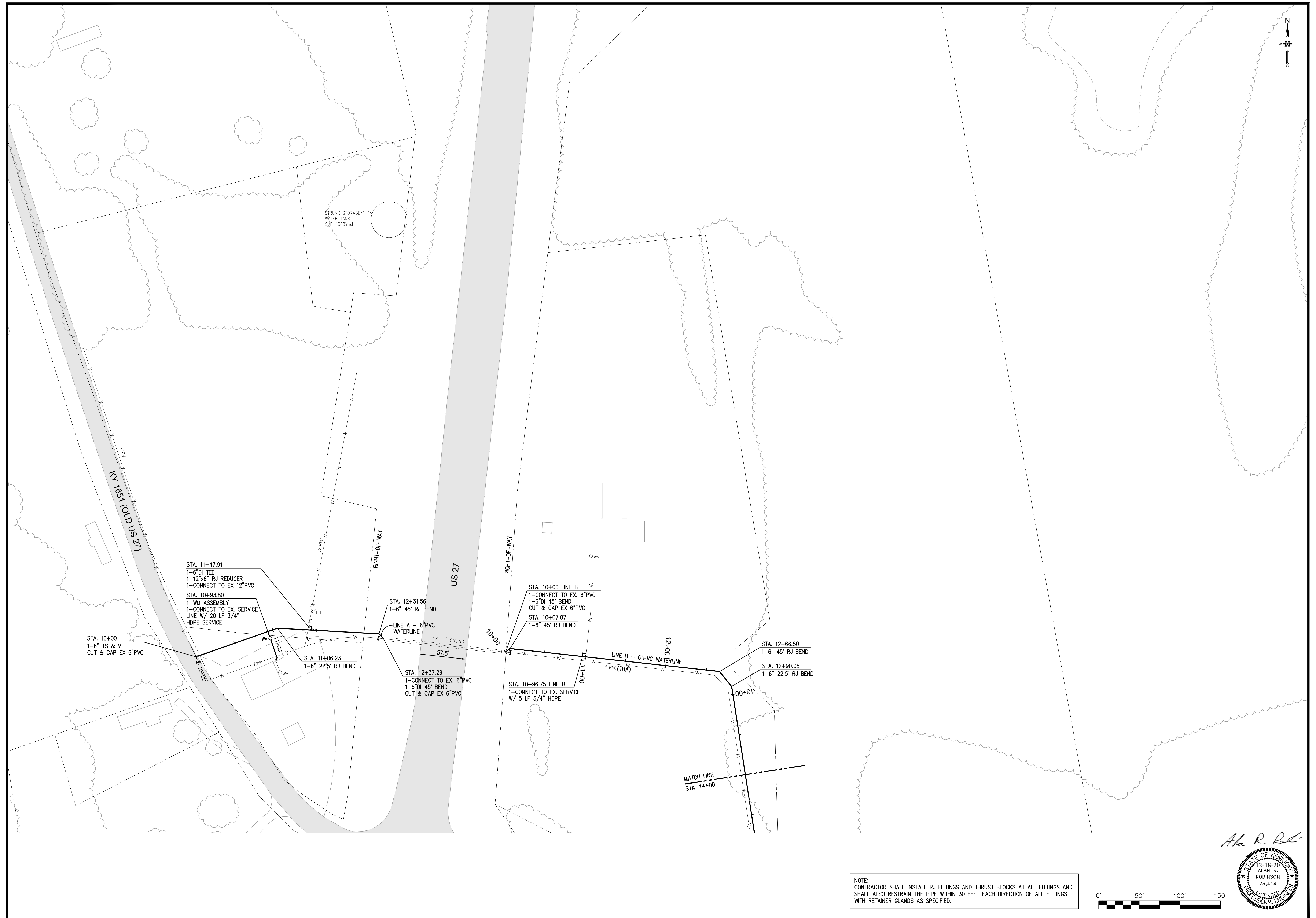
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AS SHOWN	ARR	DCC	ARR	18003	DECEMBER 2020	18003 - PLANS DWG

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42653

GENERAL NOTES, ABBREVIATIONS,
 LEGEND AND UTILITIES

MARSH CREEK ROAD WATERLINE REPLACEMENT





ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SOMERSET, KENTUCKY 40501
 PHONE: 606-451-9559

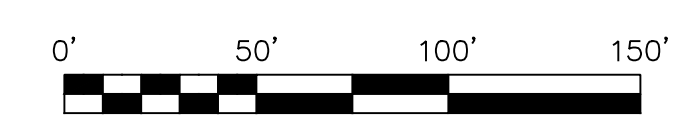
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McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

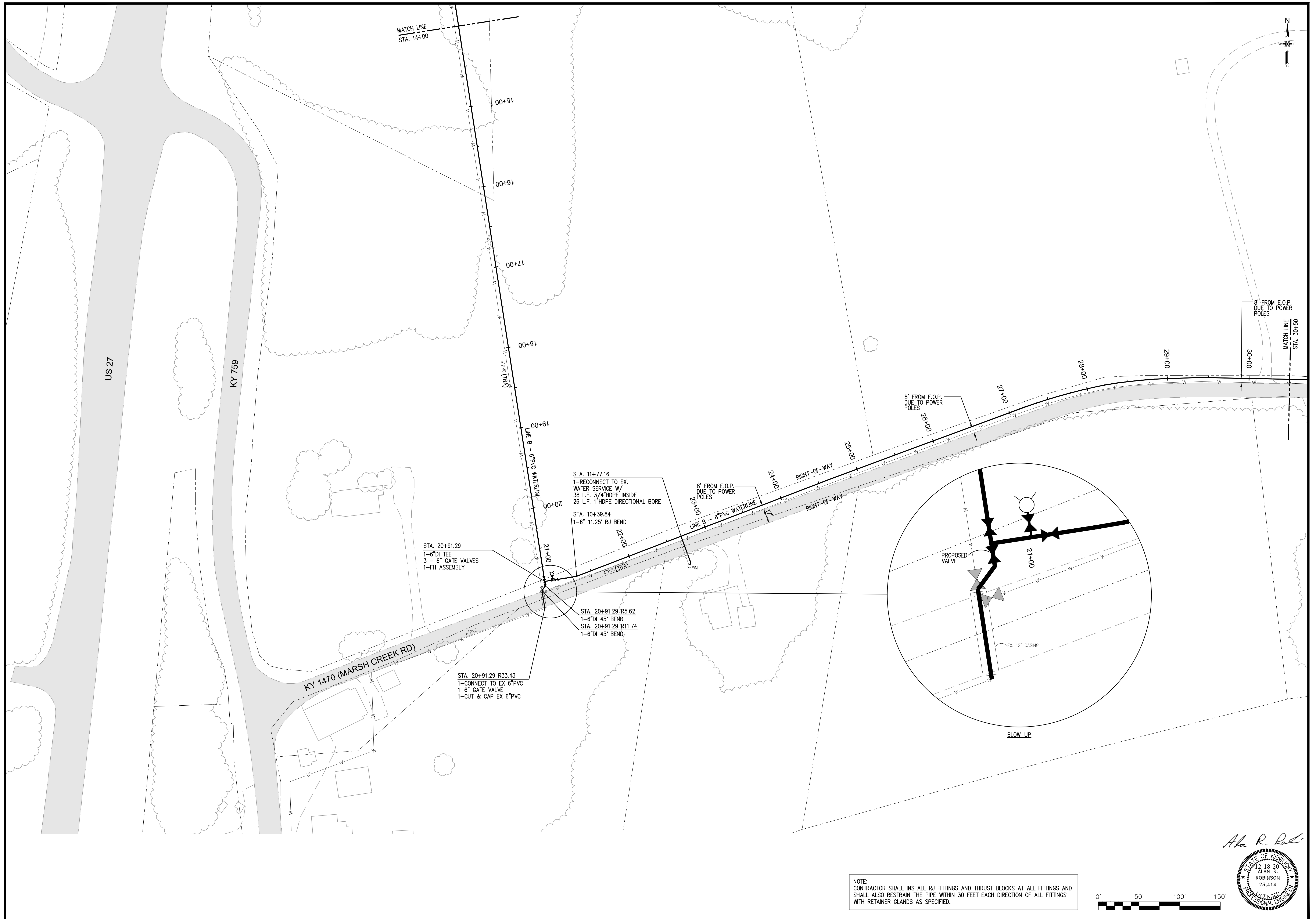
LINE A WATERLINE STA. 10+00 - 11+61.05
 LINE B WATERLINE STA. 10+00 - 14+00
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
3

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 12.18.20

ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SUITE 200 - WASHINGTON
 PHOENIX, AZ 85003
 PHONE: 602-451-9589

SCALE:	DESIGNED BY:	ARR	DCC	ARR	18003	DATE:	DECEMBER 2020	CAD DWG ID:	18003 - PLANS DWG
BY:	REVISION:	BY:	DATE:						

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

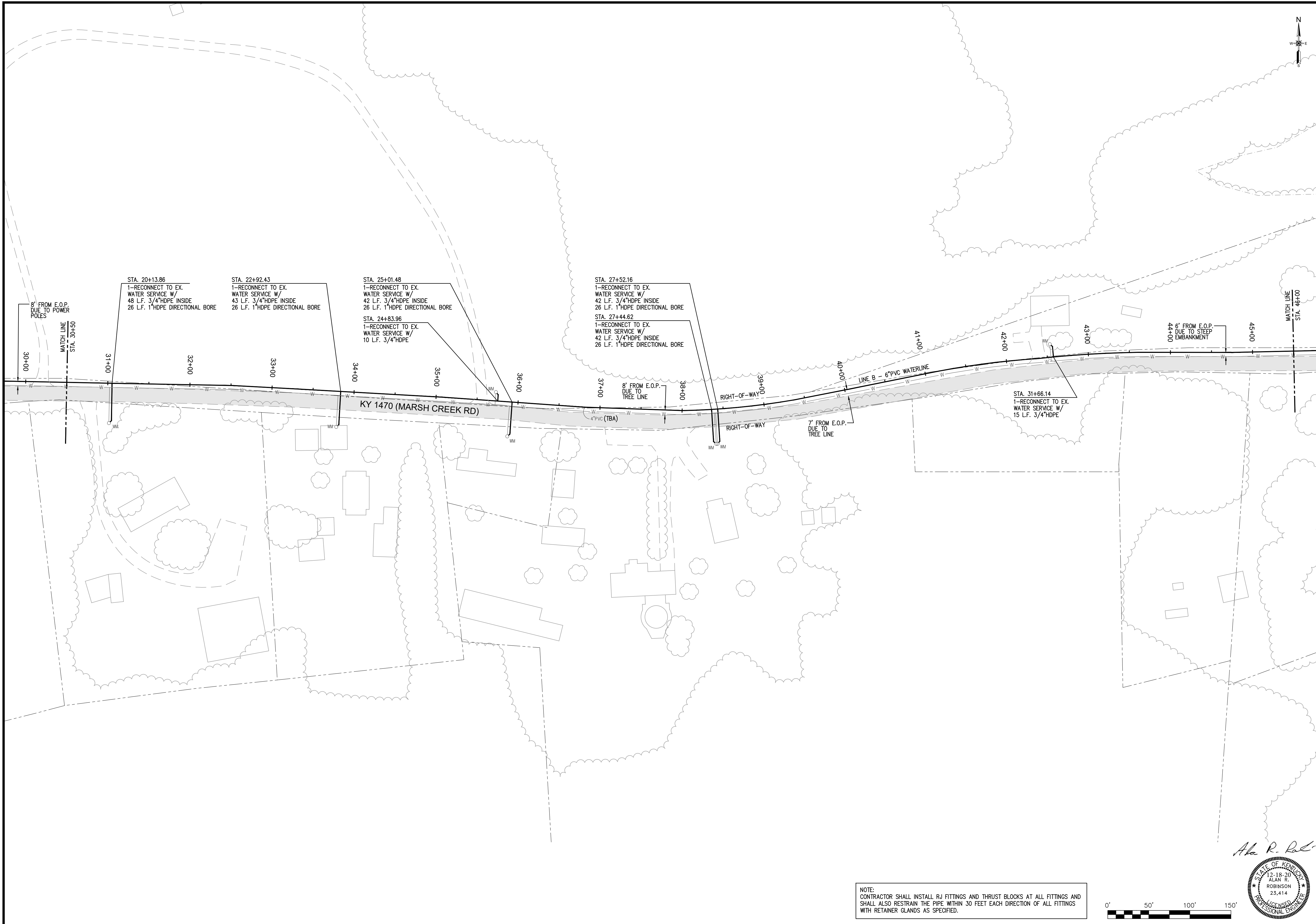
LINE B WATERLINE STA. 14+00 - 30+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
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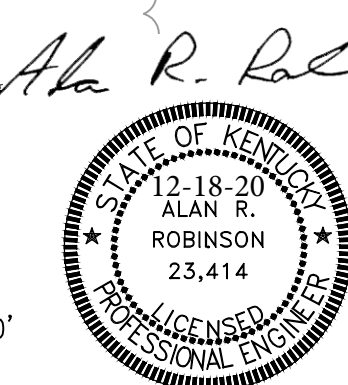
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BY:	
REVISION:	
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McCREARY COUNTY
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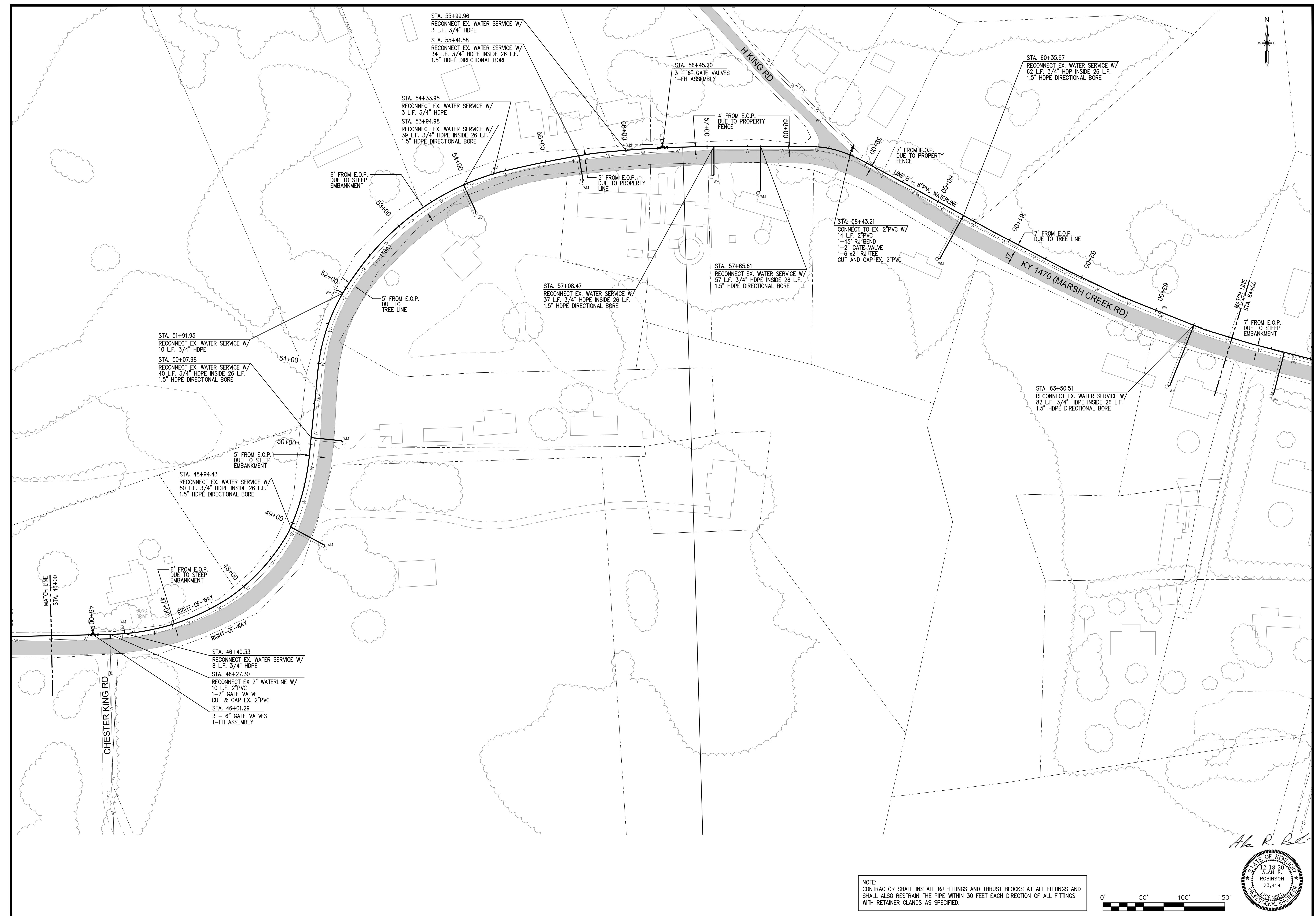
LINE B WATERLINE STA. 30+50 - 46+00
 MARSH CREEK ROAD WATERLINE REPLACEMENT



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson



STA. 51+91.95
RECONNECT EX. WATER SERVICE W/
10 L.F. 3/4" HDPE
STA. 50+07.98
RECONNECT EX. WATER SERVICE W/
40 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

STA. 48+94.43
RECONNECT EX. WATER SERVICE W/
50 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

STA. 46+40.33
RECONNECT EX. WATER SERVICE W/
8 L.F. 3/4" HDPE
STA. 46+27.30
RECONNECT EX. 2" WATERLINE W/
10 L.F. 2" PVC
1-2" GATE VALVE
CUT & CAP EX. 2" PVC
STA. 46+01.29
3 - 6" GATE VALVES
1-FH ASSEMBLY

STA. 55+99.96
RECONNECT EX. WATER SERVICE W/
3 L.F. 3/4" HDPE
STA. 55+41.58
RECONNECT EX. WATER SERVICE W/
34 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

STA. 54+33.95
RECONNECT EX. WATER SERVICE W/
3 L.F. 3/4" HDPE
STA. 53+94.98
RECONNECT EX. WATER SERVICE W/
39 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

STA. 57+08.47
RECONNECT EX. WATER SERVICE W/
37 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

STA. 57+65.61
RECONNECT EX. WATER SERVICE W/
57 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

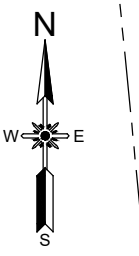
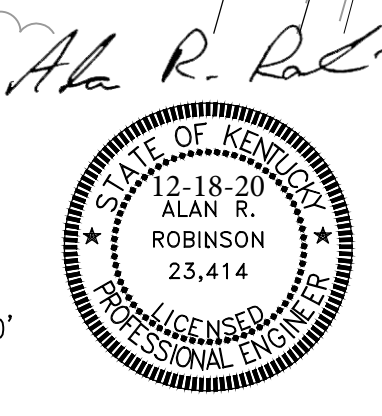
STA. 56+45.20
3 - 6" GATE VALVES
1-FH ASSEMBLY

STA. 58+43.21
CONNECT TO EX. 2" PVC W/
14 L.F. 2" PVC
1-45° RJ BEND
1-2" GATE VALVE
1-6"x2" RJ-TEE
CUT AND CAP EX. 2" PVC

STA. 60+35.97
RECONNECT EX. WATER SERVICE W/
62 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

STA. 63+50.51
RECONNECT EX. WATER SERVICE W/
82 L.F. 3/4" HDPE INSIDE 26 L.F.
1.5" HDPE DIRECTIONAL BORE

NOTE:
CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND
SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS
WITH RETAINER GLANDS AS SPECIFIED.



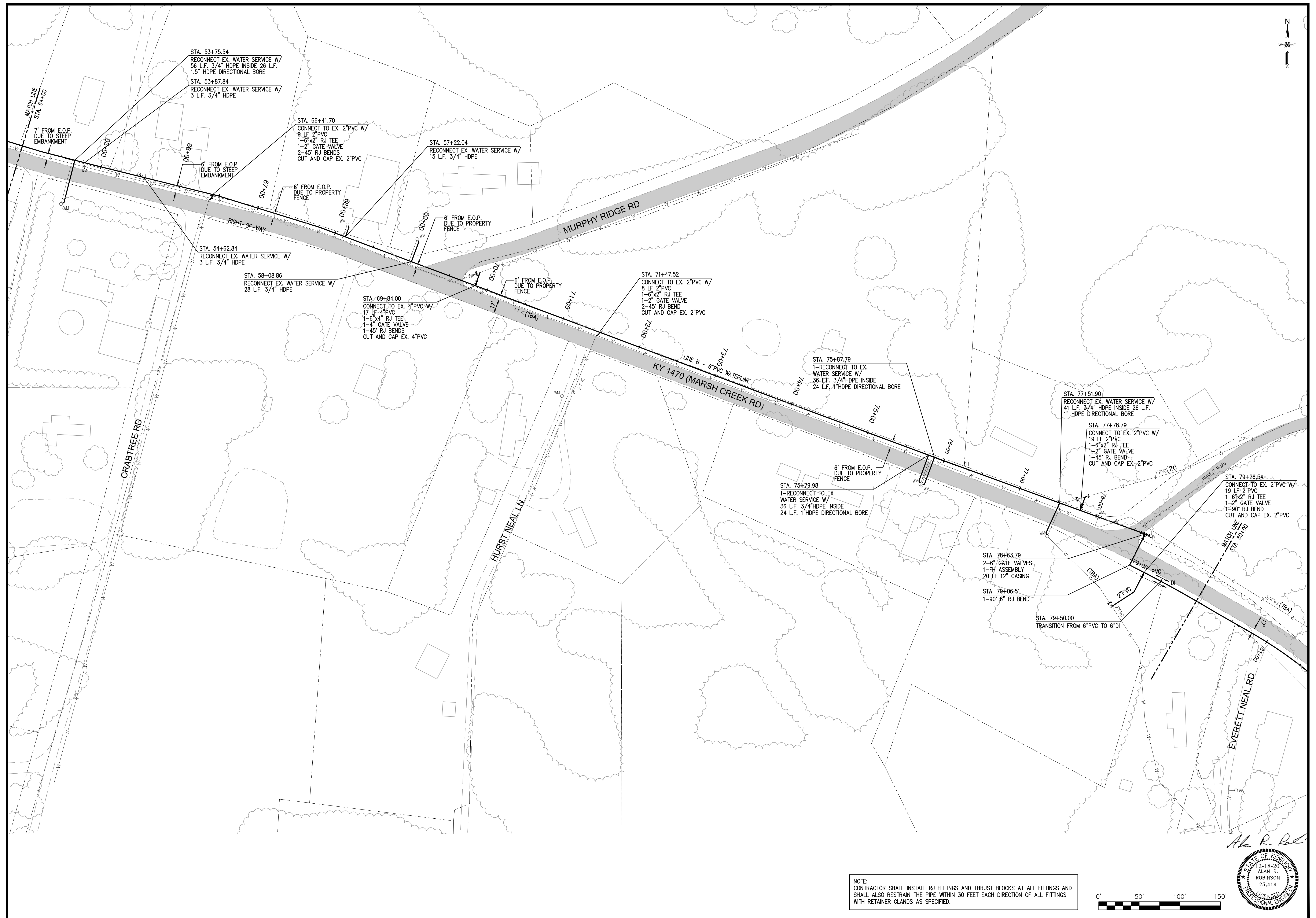
ECLIPSE ENGINEERS, PLLC

113 WEST MT. VERNON STREET
SOMERSET, KY 40550
PHONE: 606-451-9589

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LINE B WATERLINE STA. 46+00 - 64+00
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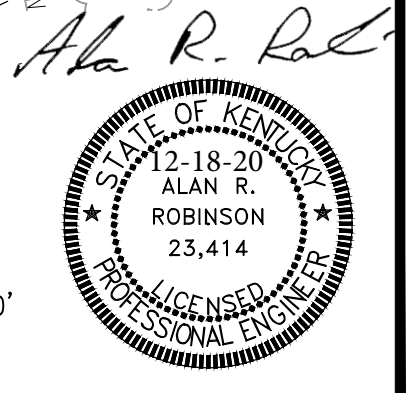
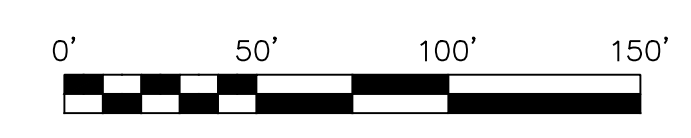


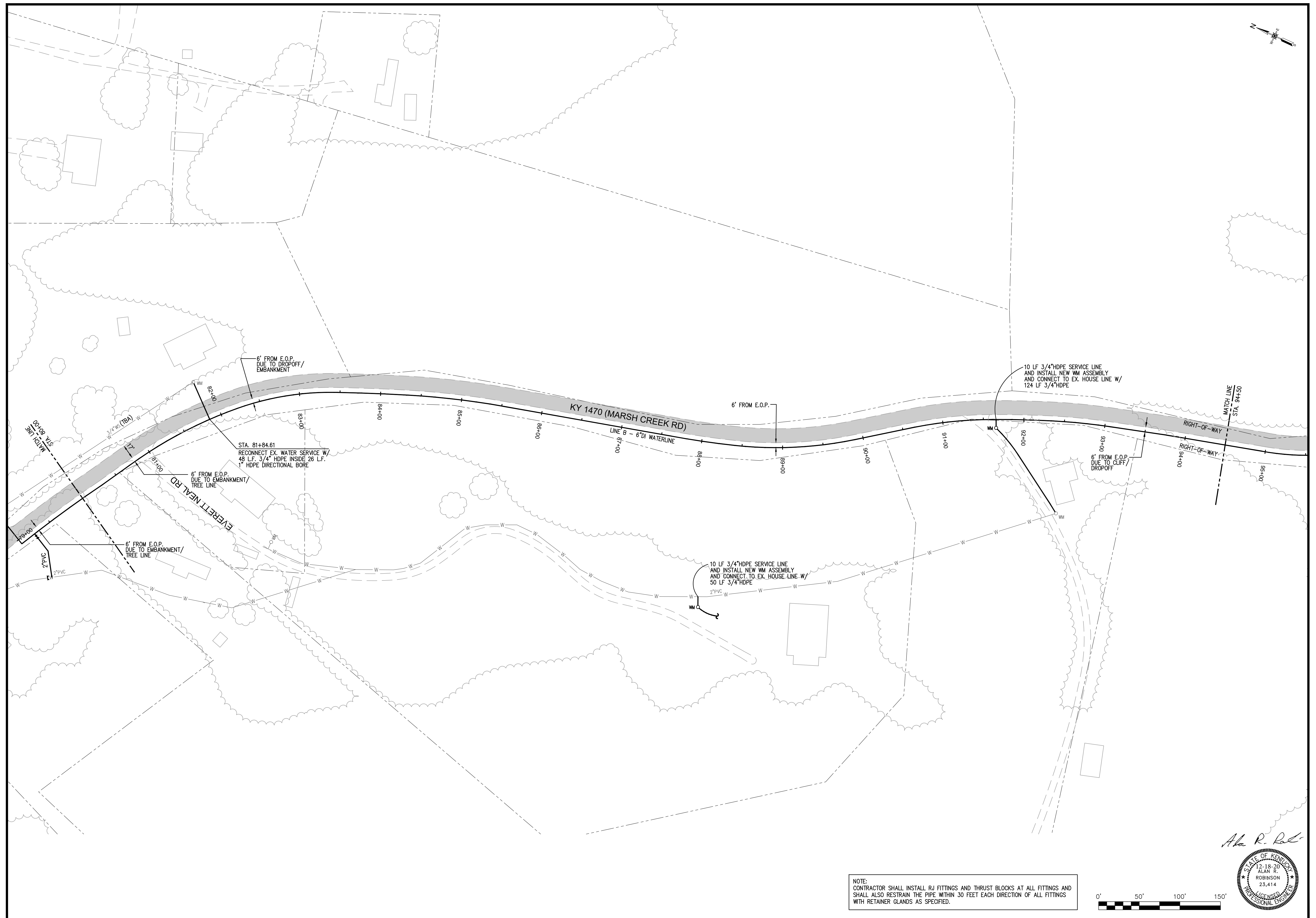
SCALE:	DESIGNED BY:	ARR	DCC	DATE:
1" = 50'	ARR	DCC	ARR	18003
DATE:	BY:	REVISION:	BY:	DATE:

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 64+00 - 80+00
 MARSH CREEK ROAD WATERLINE REPLACEMENT

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.

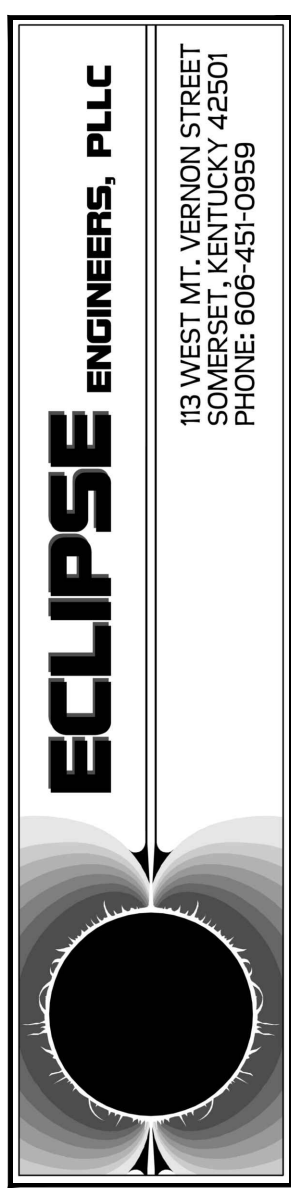




NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 12/18/20



ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SUITE 201
 WHITLEY CITY, KY 42651
 PHONE: 606-451-9589

SCALE:	DESIGNED BY:	1" = 50'
DRAWN BY:	DCC	ARR
CHECKED BY:	ARR	ARR
PROJECT NO.:	18003	ARR
DATE:	DECEMBER 2020	ARR
CAD DWG ID:	18003 - PLANS.DWG	ARR
REVISION:	BY:	DATE:

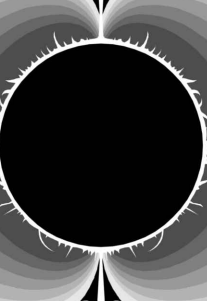
MACCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42653

LINE B WATERLINE STA. 80+00 - 94+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
8



ECLIPSE ENGINEERS, PLLC



113 WEST MT. VERNON STREET
 CHAMBERSBURG, KY 42301
 PHONE: 606-451-9589

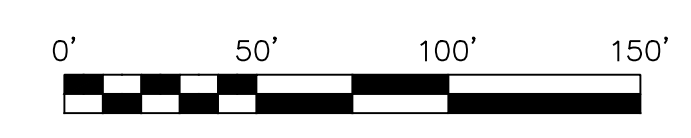
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1" = 50'	ARR	1		
DRAWN BY:	DCC	2		
CHECKED BY:	ARR	3		
PROJECT NO:	18003	4		
DATE:	DECEMBER 2020	5		
CAD DWG ID:	18003 - PLANS DWG	6		

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

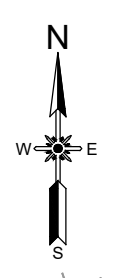
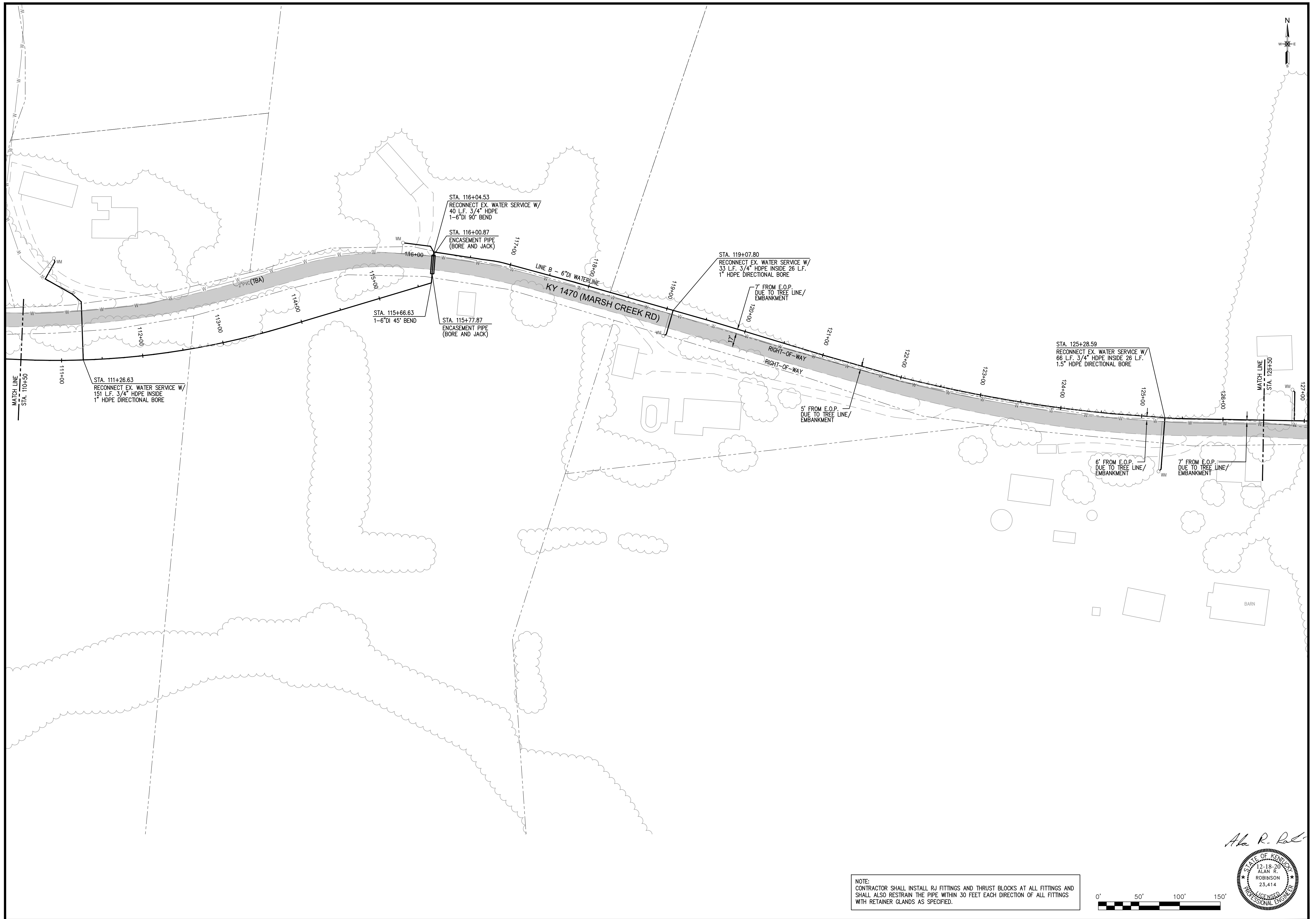
LINE B WATERLINE STA. 94+50 - 110+50
MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
9

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Ala R. Pate



ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 BOWLING GREEN, KY 42301
 PHONE: 606-451-9589

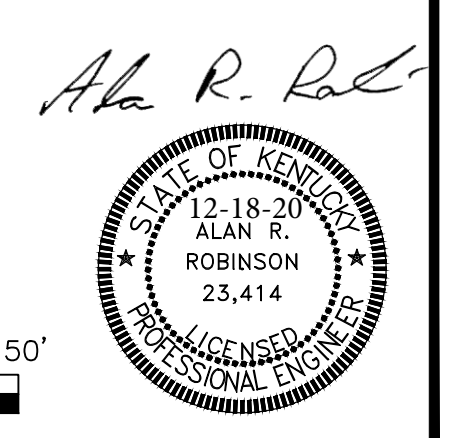
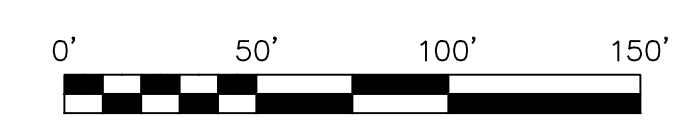
SCALE:	DESIGNED BY:	ARR	DATE:
1" = 50'	DRAWN BY:	DCC	18003
	CHECKED BY:	ARR	18003
	PROJECT NO.:		DECEMBER 2020
	CAD DWG ID:		18003 - PLANS.DWG

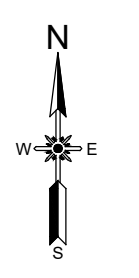
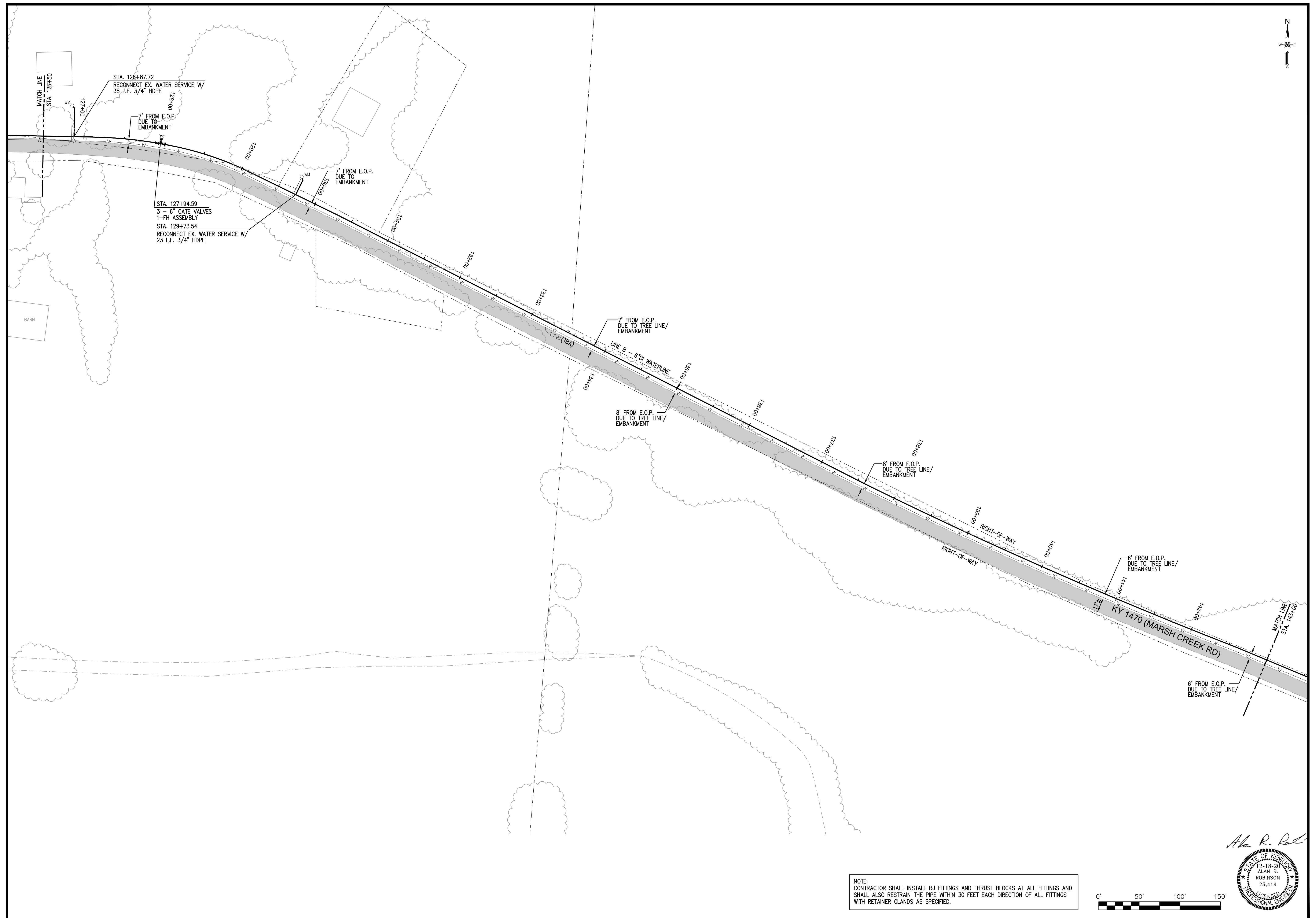
McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 110+50 - 126+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
 10

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.





ECLIPSE ENGINEERS, PLLC

113 WEST MT. VERNON STREET
 SUMMERSVILLE, KY 40501
 PHONE: 502-481-9559

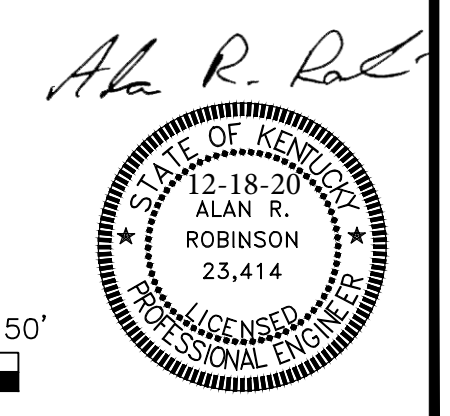
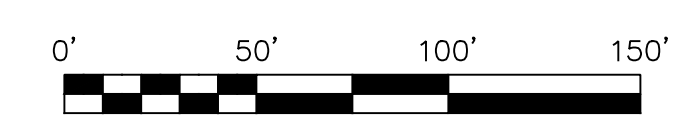
SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	18003 - PLANS DWG
DRAWN BY:	CHECKED BY:	CAD DWG ID:
DCC	ARR	18003
REVISION:	BY:	DATE:

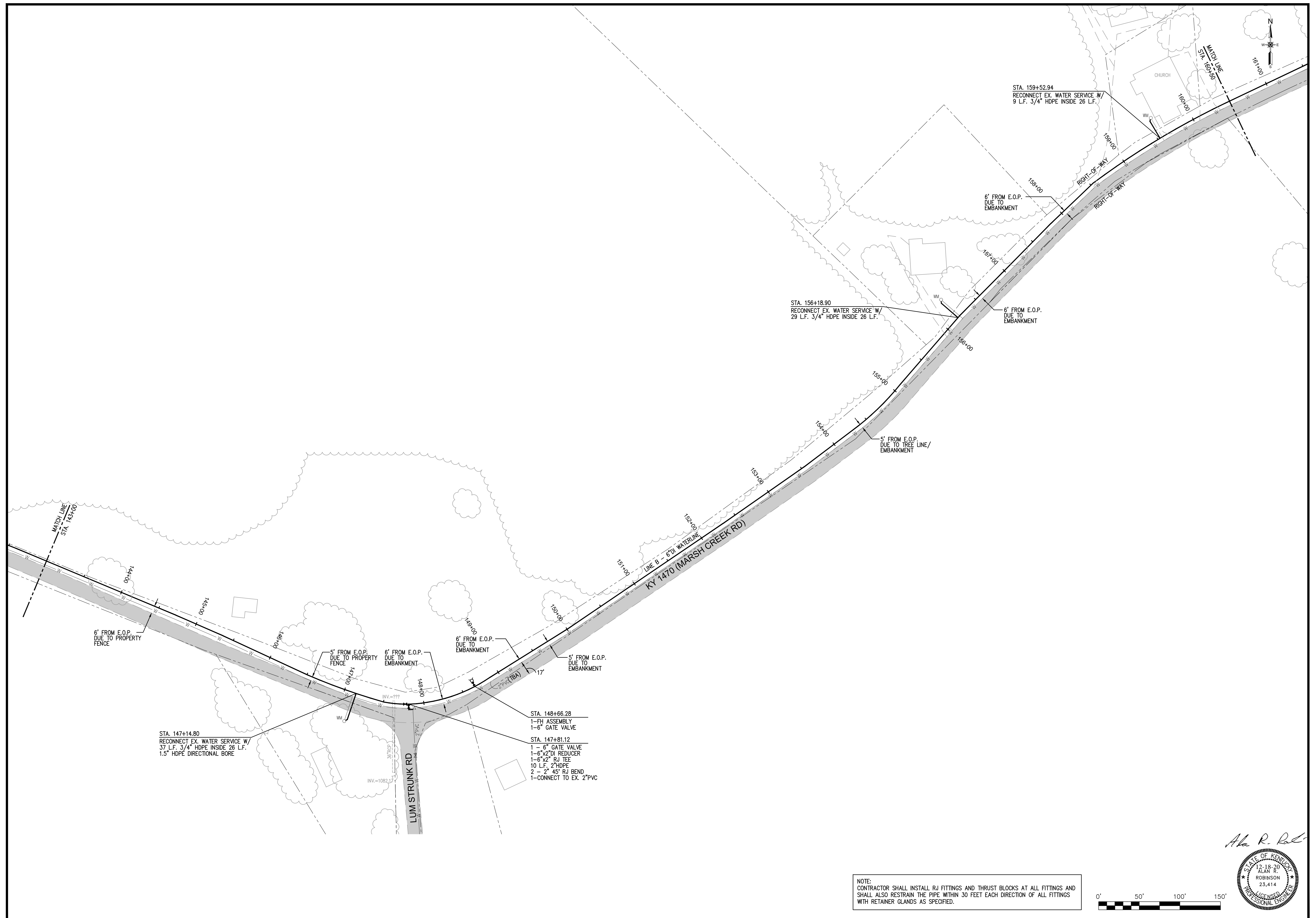
McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42653

LINE B WATERLINE STA. 126+50 - 143+00
 MARSH CREEK ROAD WATERLINE REPLACEMENT

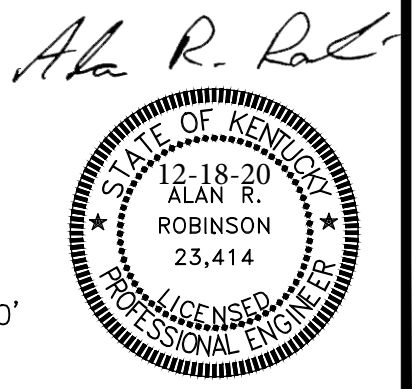
SHEET NUMBER:
11

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND
 SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS
 WITH RETAINER GLANDS AS SPECIFIED.





NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



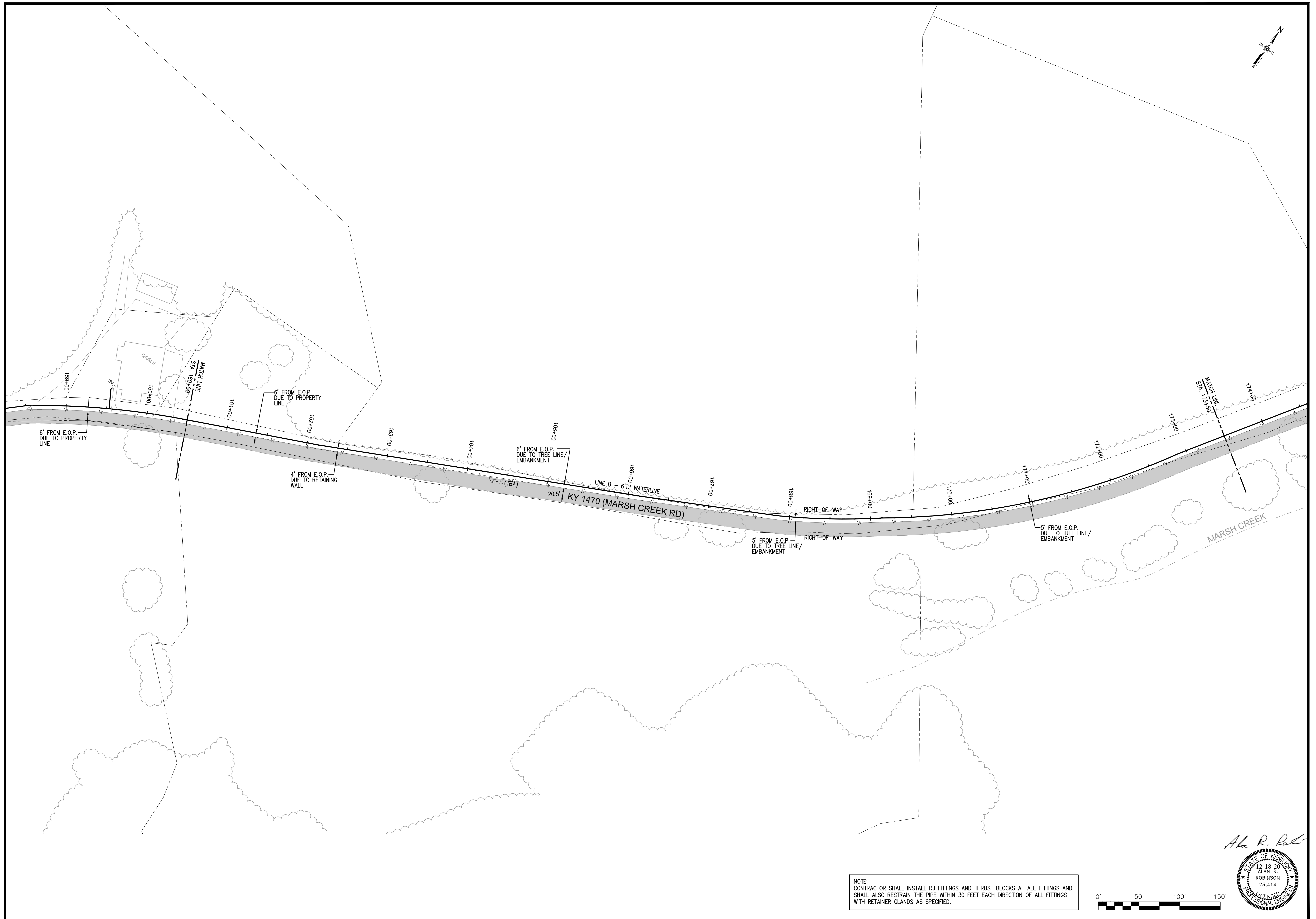
ECLIPSE ENGINEERS, PLLC

113 WEST MT. VERNON STREET
 BIRMINGHAM, AL 35201
 PHONE: 666-481-9589

SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	
	DCC	
	ARR	
	ARR	18003
	PROJECT NO:	DECEMBER 2020
	CAD DWG ID:	18003 - PLANS DWG

MC CREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 143+00 - 160+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT



NOTE:
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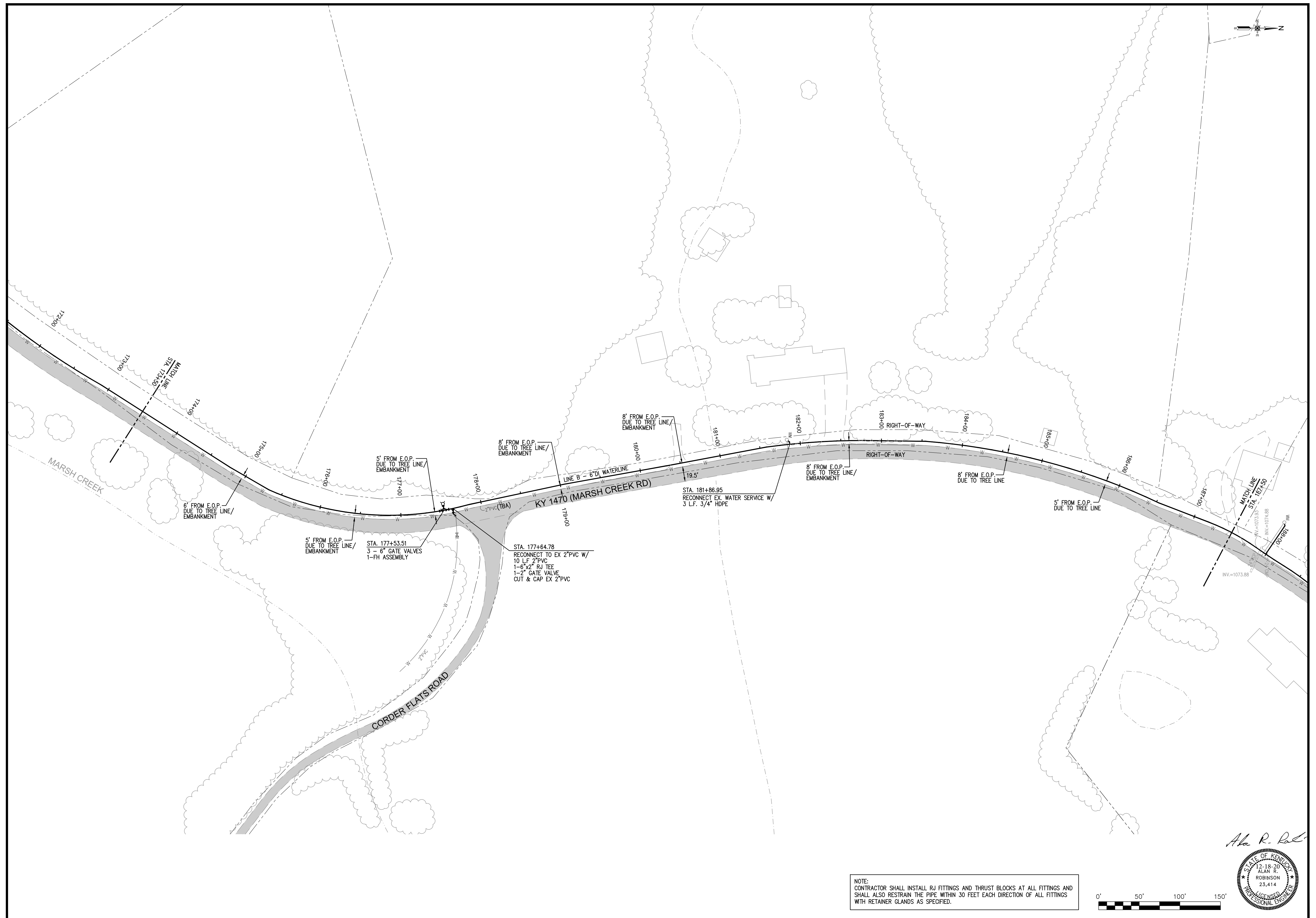
Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 12-18-20

ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SUITE 200
 WHITLEY CITY, KY 40381
 PHONE: 606-451-9559

SCALE:	DESIGNED BY:	ARR	DCC	ARR	18003	DECEMBER 2020	18003 - PLANS.DWG
DRAWN BY:	CHECKED BY:	PROJECT NO.:	DATE:	CAD DWG ID:			
REVISION:	BY:	DATE:					

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42863

LINE B WATERLINE STA. 160+50 - 173+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER

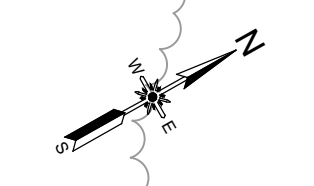
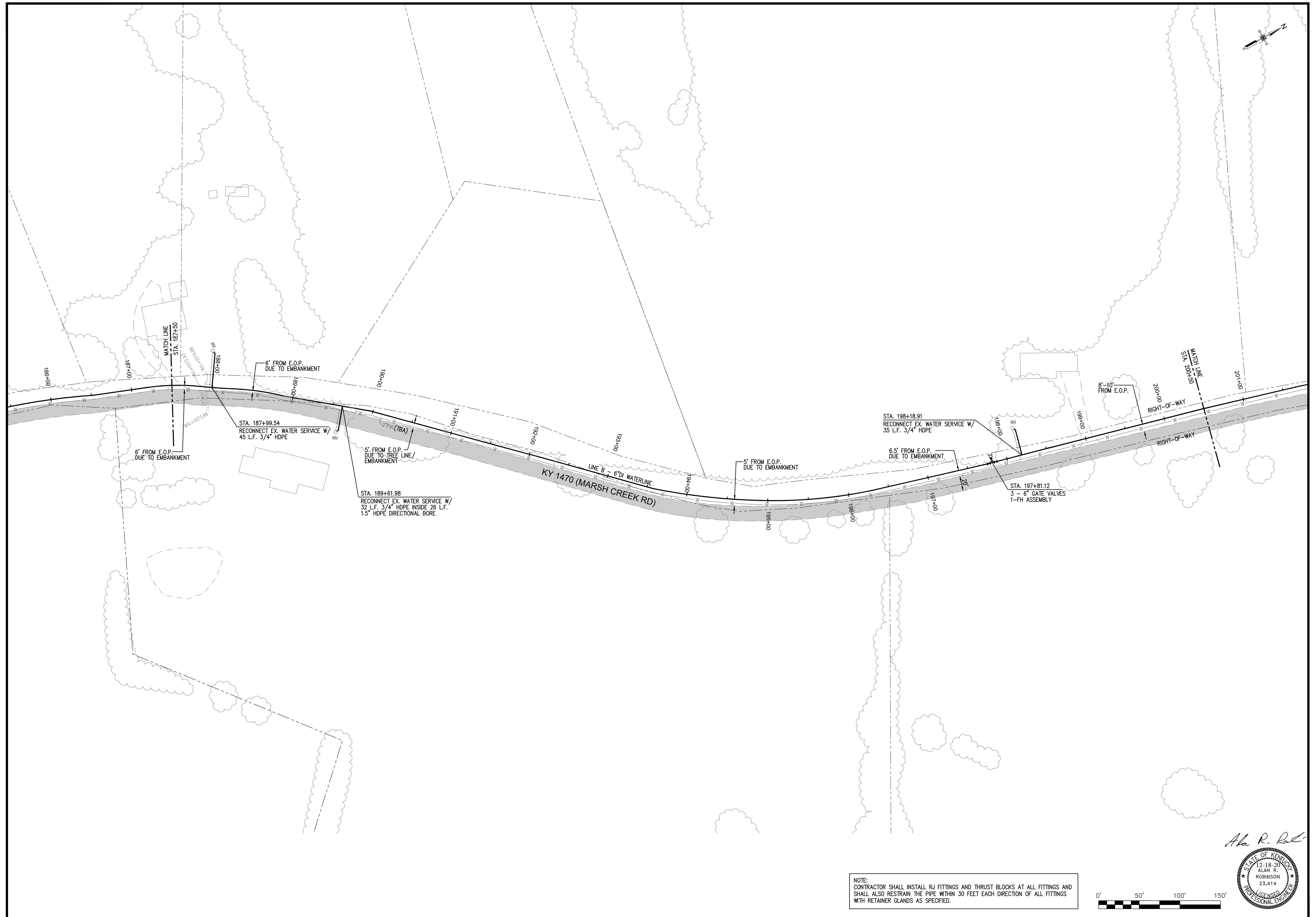
ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 BOWLING GREEN, KY 42501
 PHONE: 606-451-9589

SCALE:	DESIGNED BY:	ARR	DATE:
1" = 50'	DRAWN BY:	DCC	
	CHECKED BY:	ARR	
	PROJECT NO.:	18003	
	DATE:	DECEMBER 2020	
	CAD DWG ID:	18003 - PLANS.DWG	

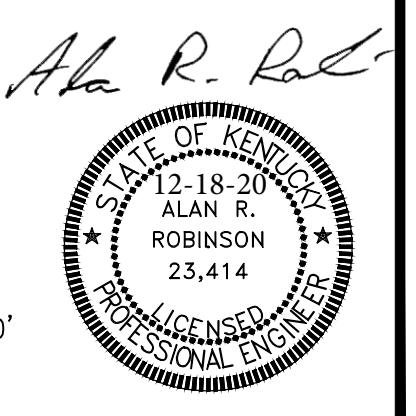
MCCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 173+50 - 187+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
 14



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



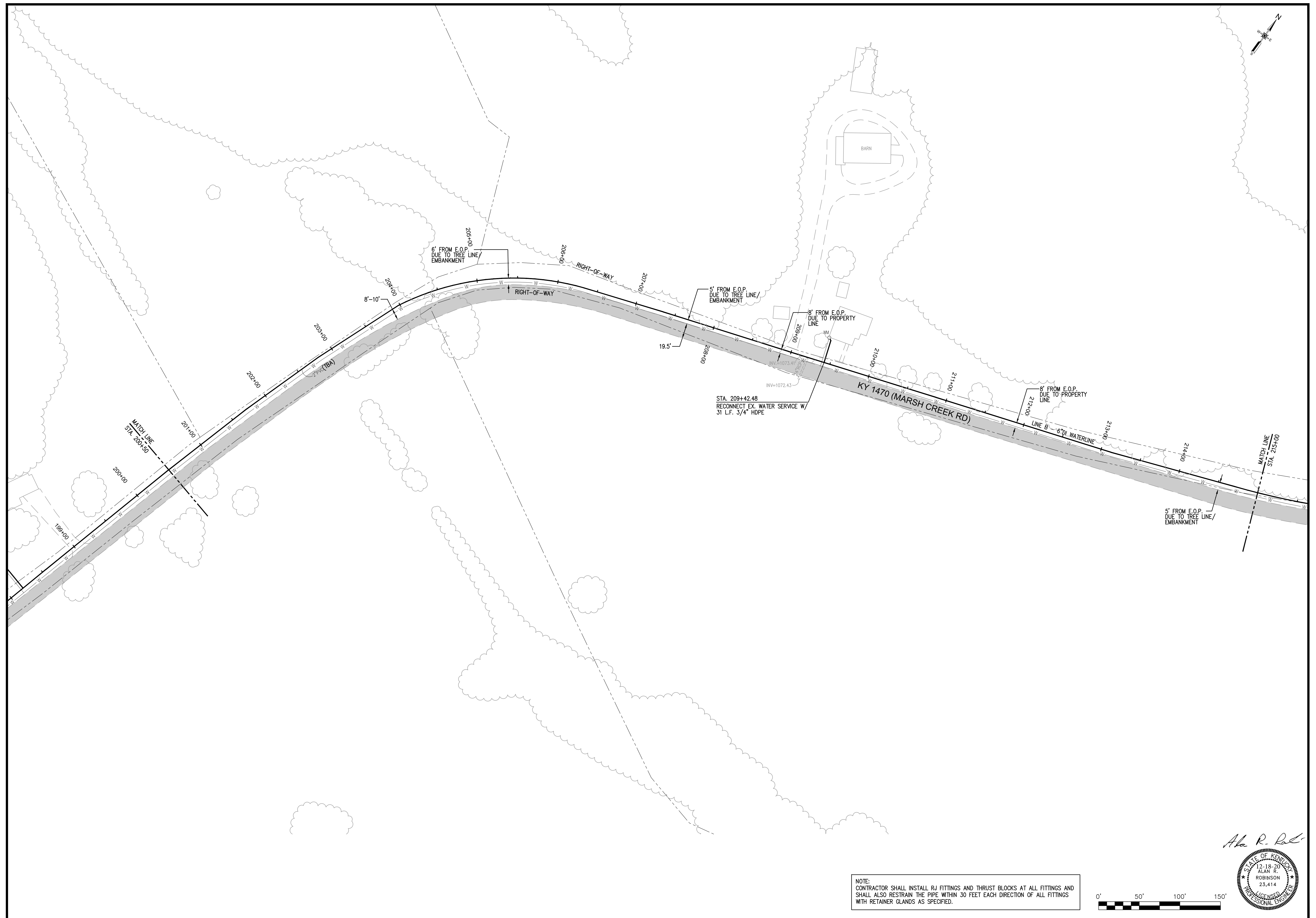
ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SCHLESSEL, KENTUCKY 40501
 PHONE: 502-481-9589

SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	DECEMBER 2020
SCALE:	DRAWN BY:	CAD DWG ID:
1" = 50'	DCC	18003 - PLANS.DWG
REVISION:	BY:	DATE:

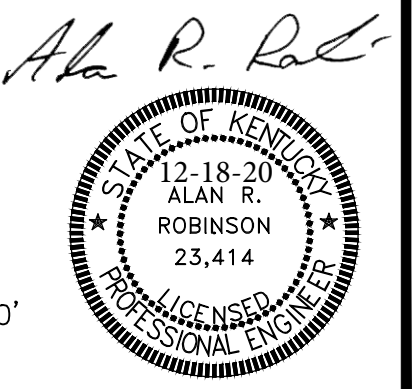
McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 187+50 - 200+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
15



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.

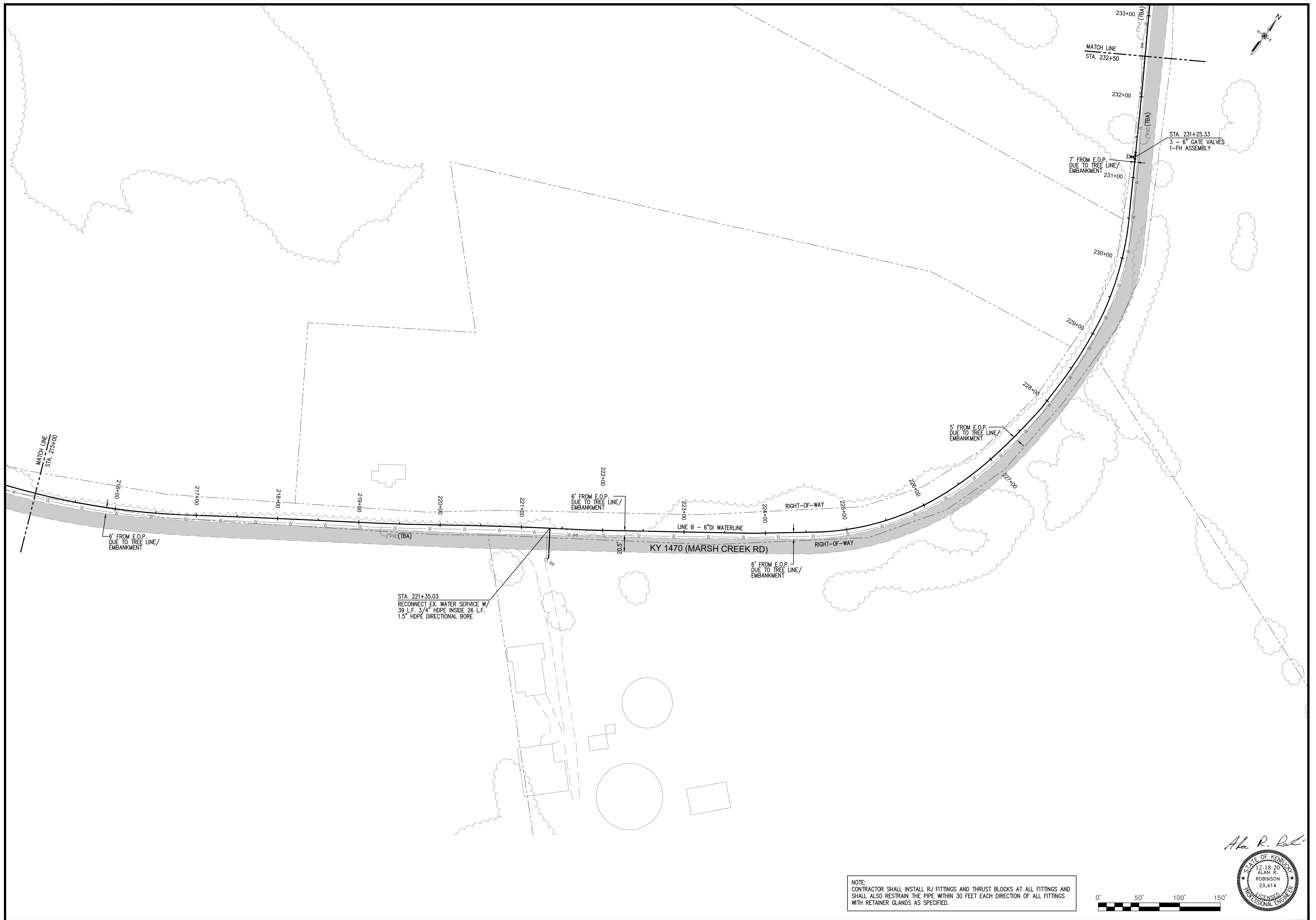


ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SUITE 200 - WASHINGTON
 PHOENIX, ARIZONA 85001
 PHONE: 602-451-9589

SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	18003
REVISION:	DRAWN BY:	CAD DWG ID:
BY:	ARR	18003 - PLANS DWG
DATE:	ARR	
	ARR	

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 200+50 - 215+00
 MARSH CREEK ROAD WATERLINE REPLACEMENT



STA. 221+35.03
 RECONNECT EX. WATER SERVICE W/
 39 L.F. 3/4\"/>

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 12.18.20

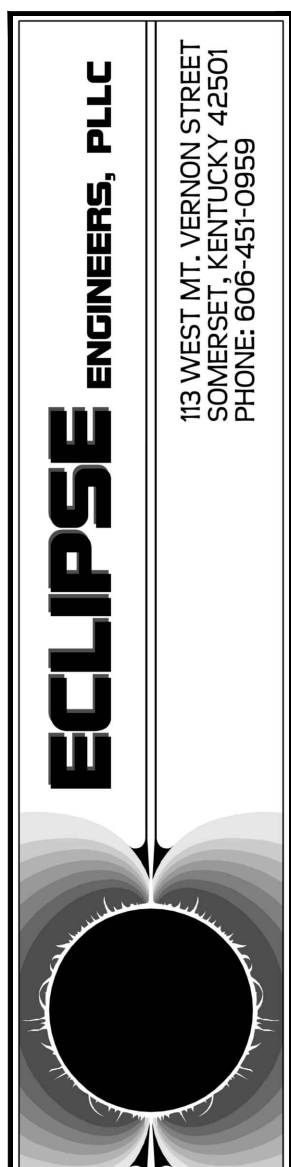
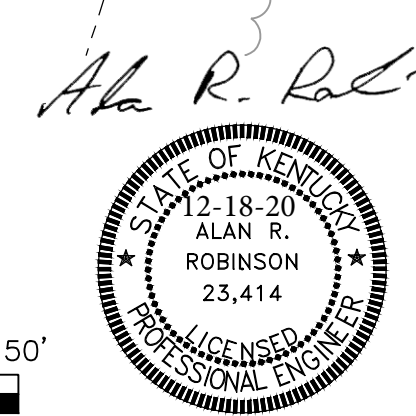
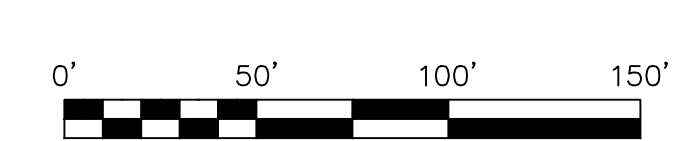
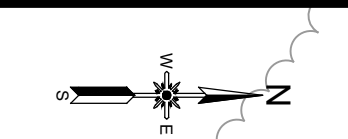
ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 BUSINESS CENTER
 PHONES: 606-481-9589

SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	
SCALE:	DRAWN BY:	DATE:
1" = 50'	DCC	
SCALE:	CHECKED BY:	DATE:
1" = 50'	ARR	18003
SCALE:	PROJECT NO.:	DATE:
1" = 50'	18003	DECEMBER 2020
SCALE:	CAD DWG ID:	DATE:
1" = 50'	18003 - PLANS.DWG	

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 215+00 - 232+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
 17



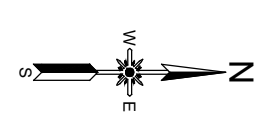
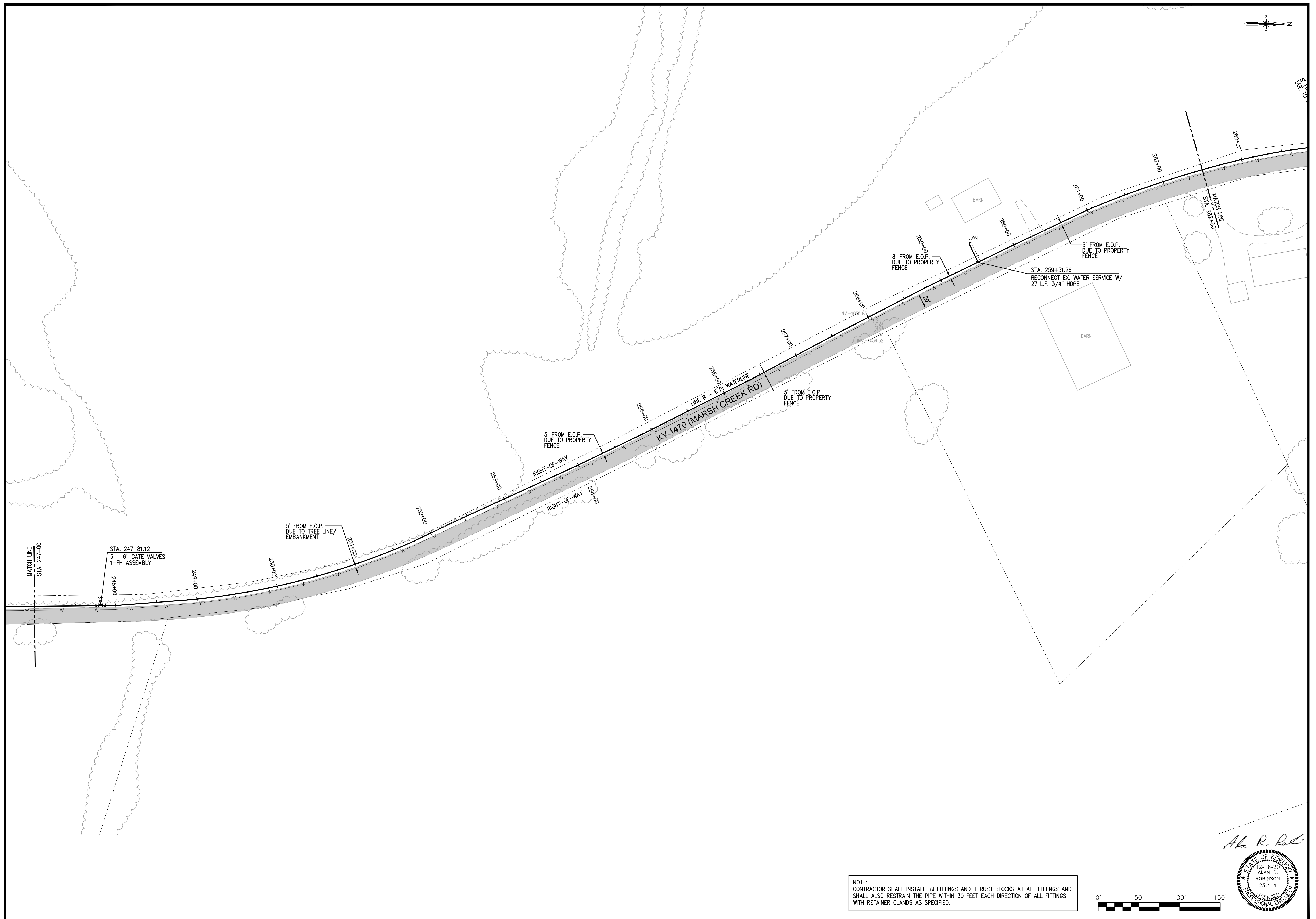
ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 BIRMINGHAM, AL 35201
 PHONE: 205-461-9589

SCALE:	DESIGNED BY:	REVISION:	DATE:
1" = 50'	ARR		
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PROJECT NO:	18003		
DATE:	DECEMBER 2020		
CAD DWG ID:	18003 - PLANS.DWG		

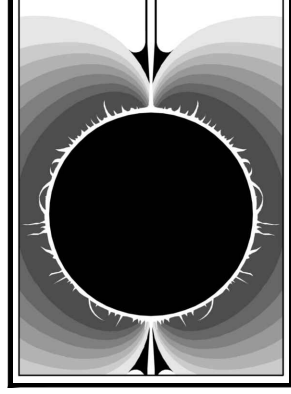
McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 232+50 - 247+00
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
18



ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 BOWLING GREEN, KY 42501
 PHONE: 606-481-9589



SCALE:	DESIGNED BY:	REVISION:	DATE:
1" = 50'	ARR	BY:	
DRAWN BY:	DCC	REVISION:	
CHECKED BY:	ARR	DATE:	
PROJECT NO:	18003		
DATE:	DECEMBER 2020		
CAD DWG ID:	18003 - PLANS.DWG		

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42863

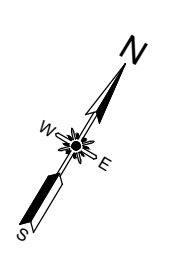
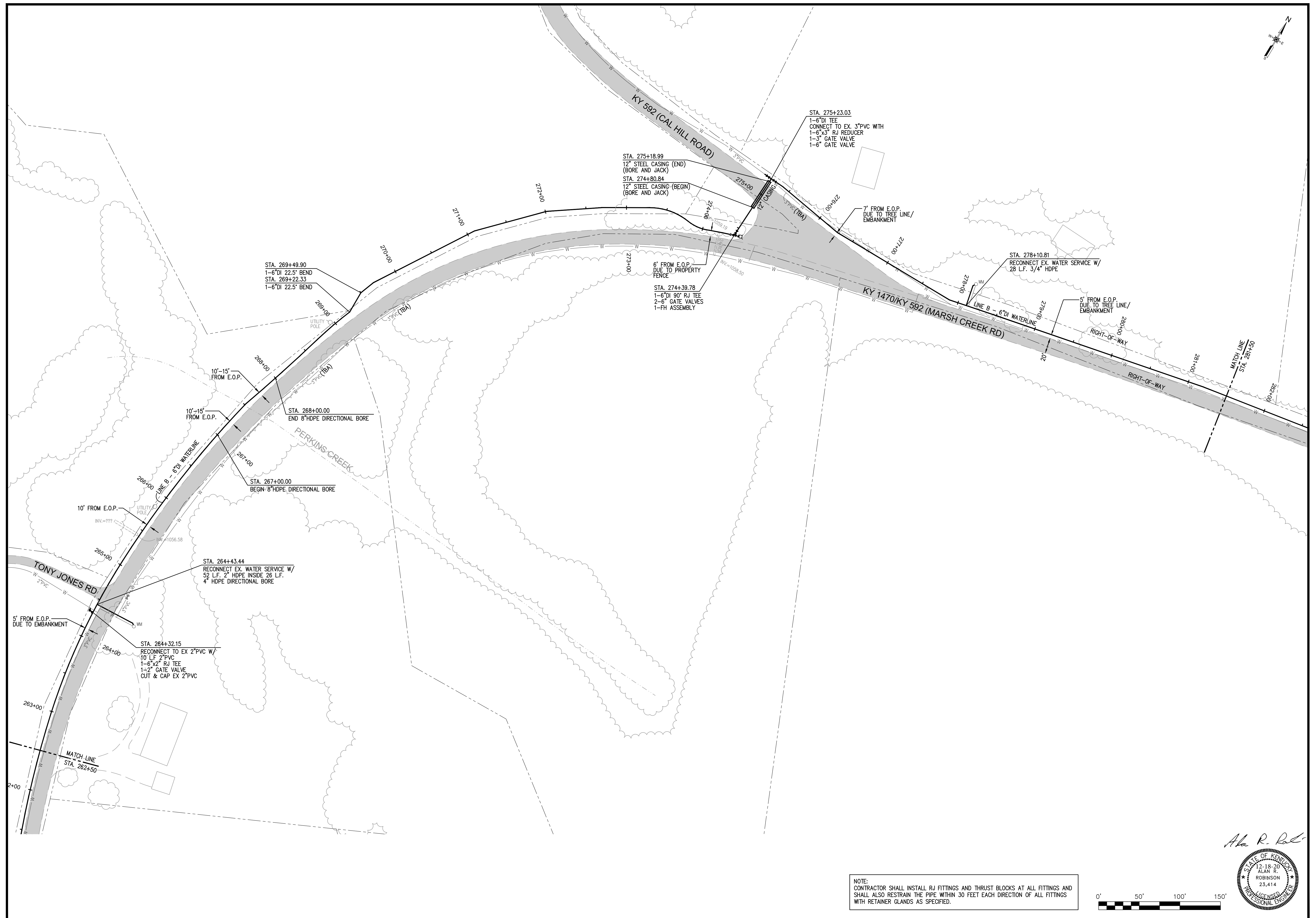
LINE B WATERLINE STA. 247+00 - 262+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

SHEET NUMBER:
19

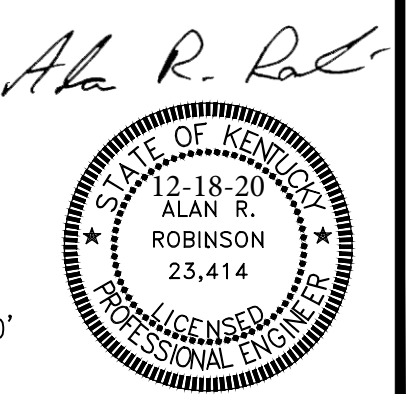
NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 12-18-20



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.

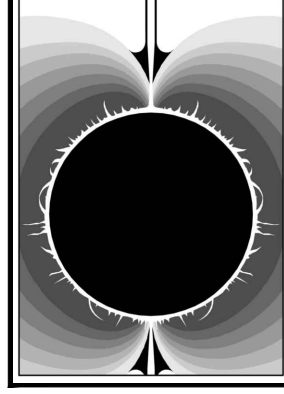


ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SOMERSET, KENTUCKY 40501
 PHONE: 606-451-9589

SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	18003
	DRAWN BY:	CAD DWG ID:
	DCC	18003 - PLANS.DWG
	CHECKED BY:	
	ARR	
	PROJECT NO:	
	18003	
	DATE:	DECEMBER 2020
	REVISION:	
	BY:	
	DATE:	

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 262+50 - 281+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

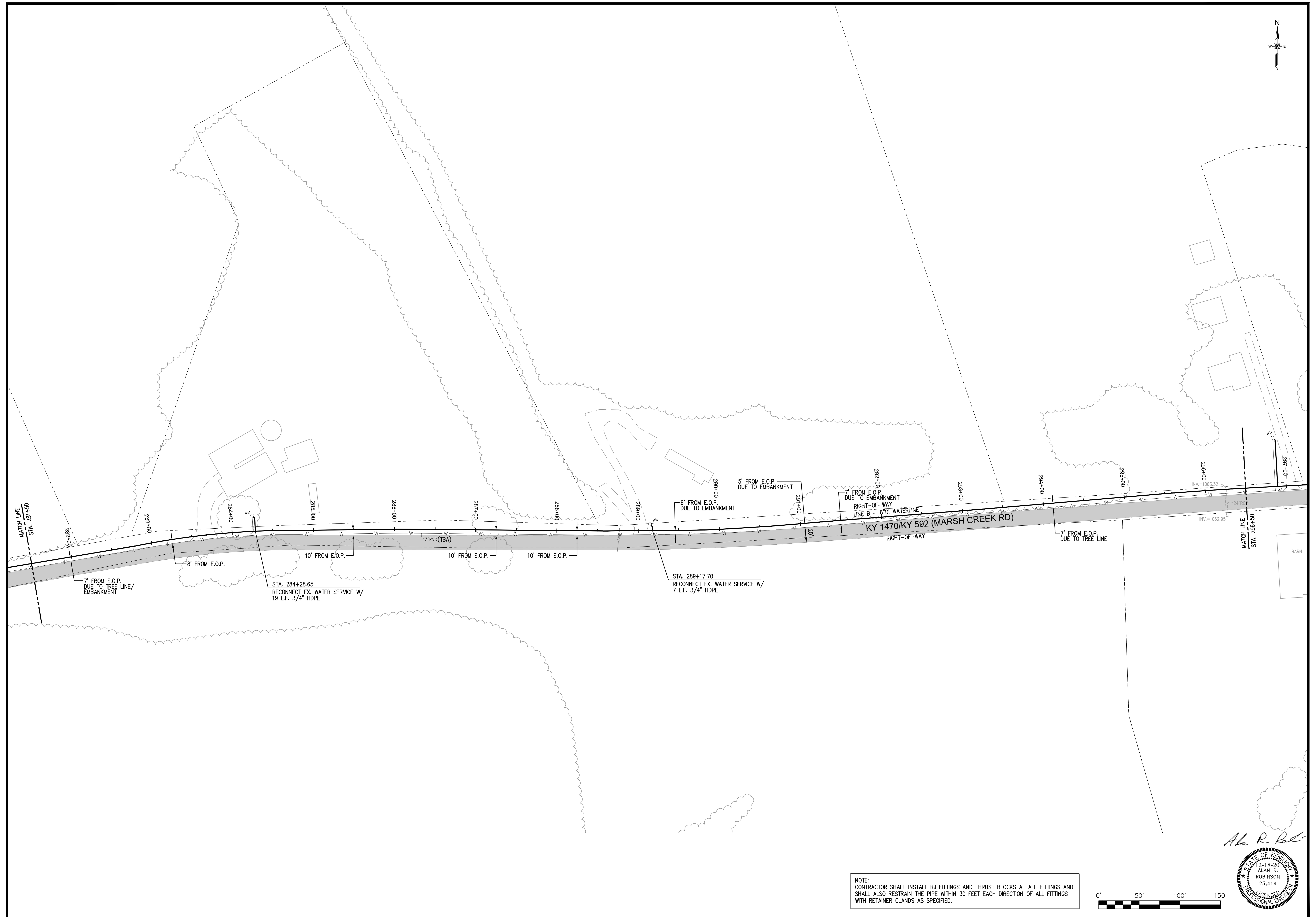


SCALE:	DESIGNED BY:	ARR	DATE:
1" = 50'	DRAWN BY:	DCC	18003 - PLANS.DWG
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	PROJECT NO:	18003	
	DATE:	DECEMBER 2020	
	CAD DWG ID:	18003 - PLANS.DWG	

MCCLARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 281+50 - 296+50
 MARSH CREEK ROAD WATERLINE REPLACEMENT

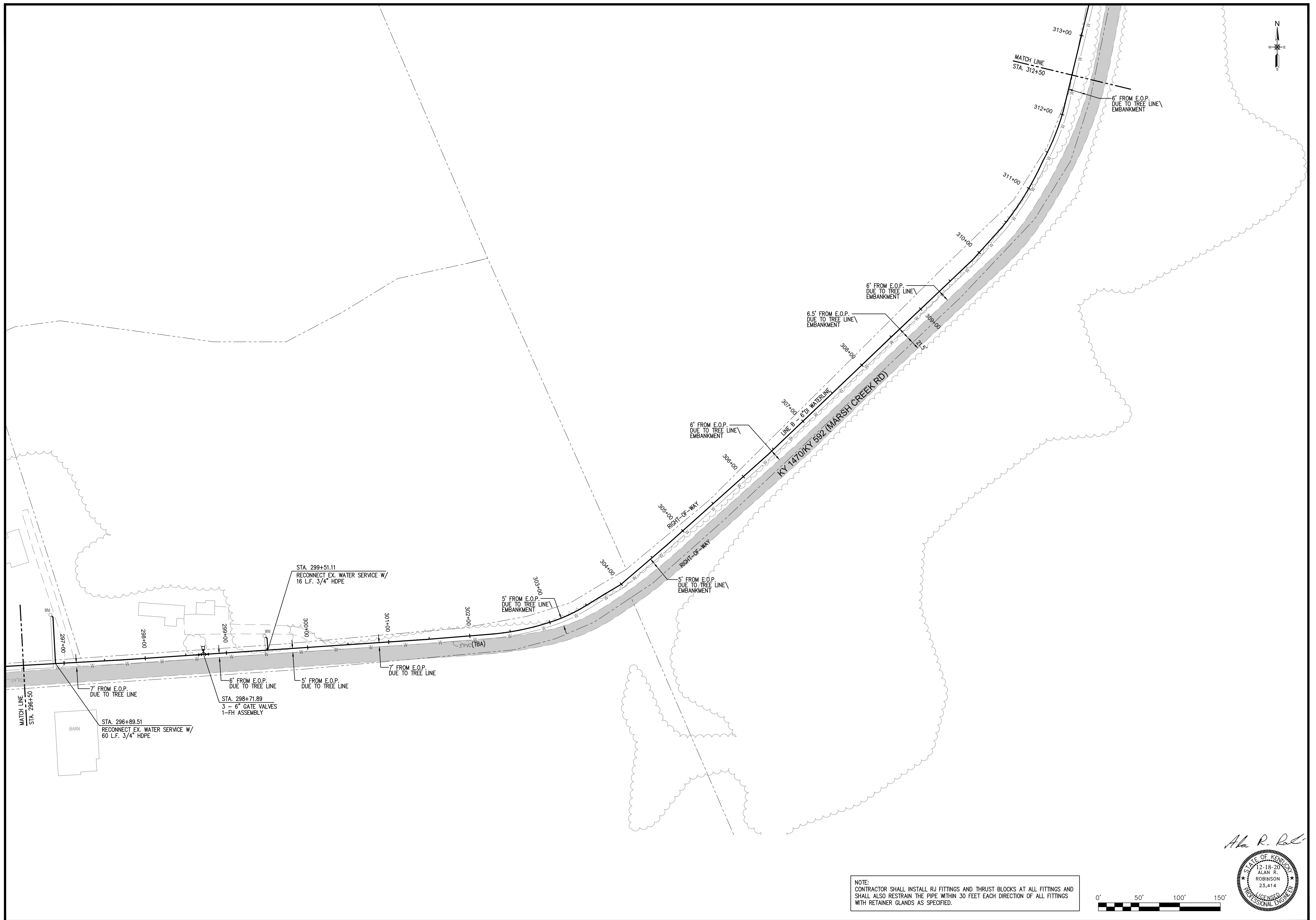
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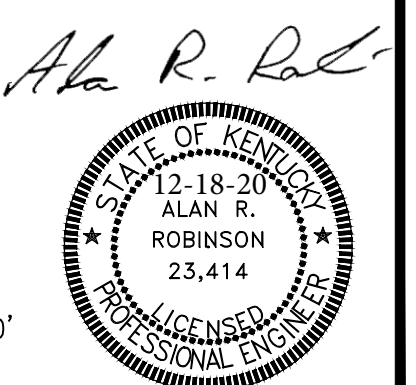
NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.



Alan R. Robinson
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER



NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS WITH RETAINER GLANDS AS SPECIFIED.

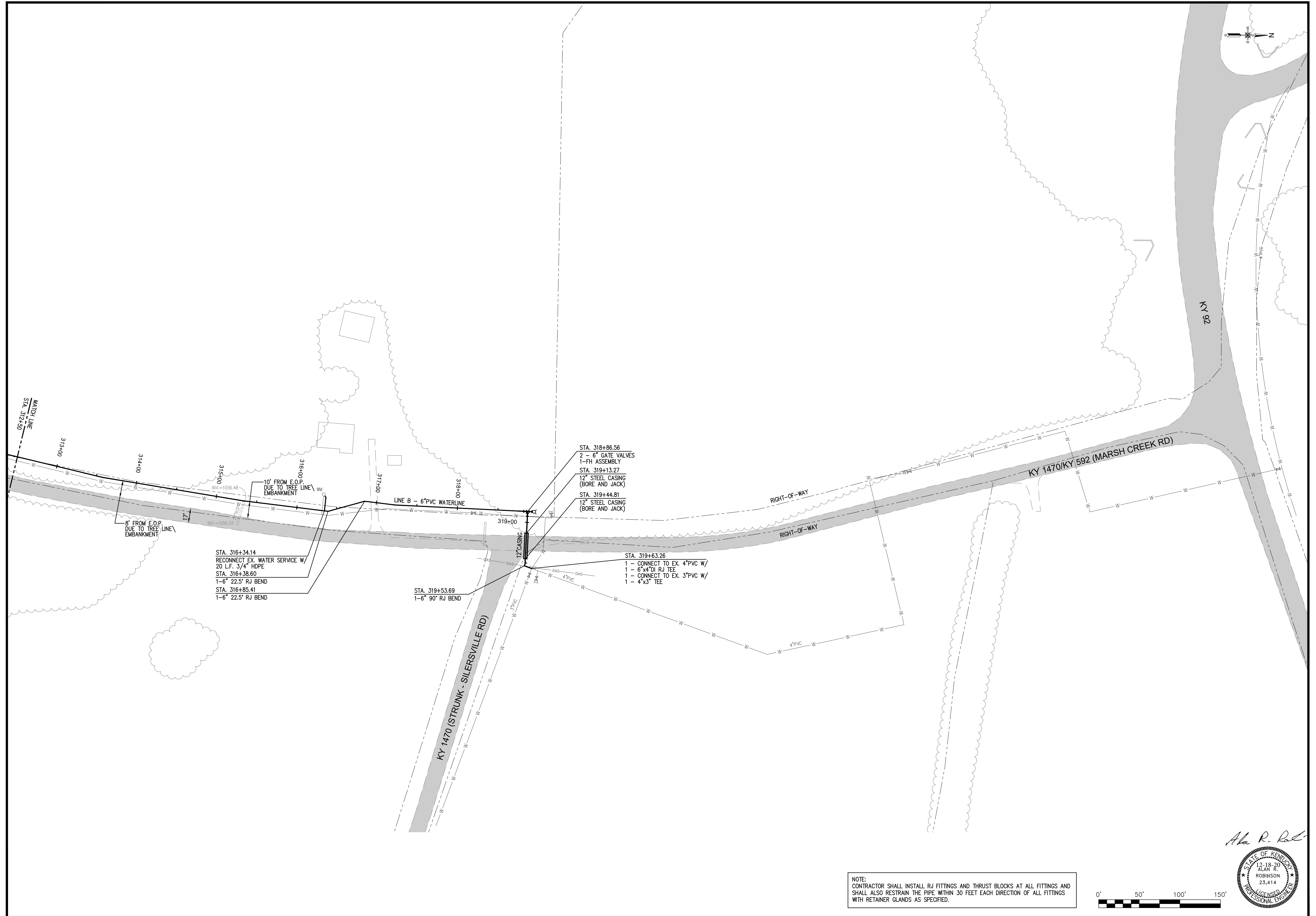


ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SUMMERSVILLE, KY 40501
 PHONE: 502-451-9589

SCALE:	DESIGNED BY:	DATE:
1" = 50'	ARR	
DRAWN BY:	CHECKED BY:	PROJECT NO.:
DCC	ARR	18003
REVISION:	BY:	DATE:
		DECEMBER 2020
		18003 - PLANS DWG

MCCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 296+50 - 312+50
MARSH CREEK ROAD WATERLINE REPLACEMENT



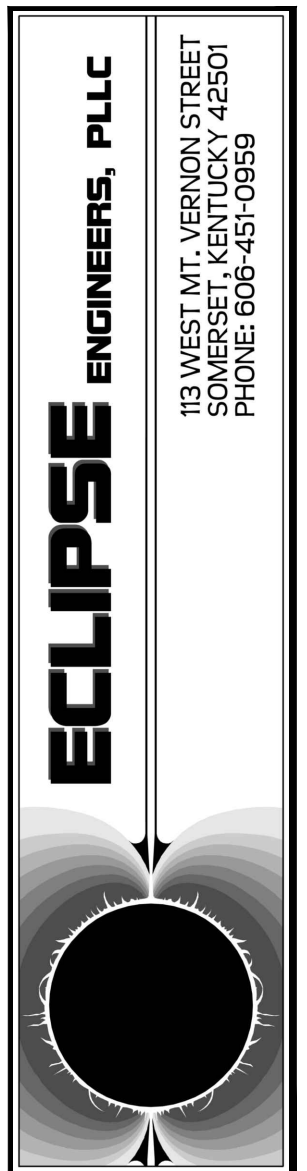
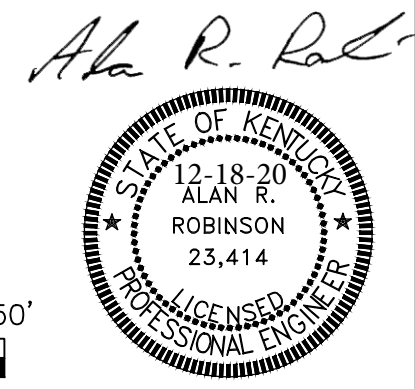
STA. 316+34.14
 RECONNECT EX. WATER SERVICE W/
 20 L.F. 3/4" HDPE
 STA. 316+38.60
 1-6" 22.5' RJ BEND
 STA. 316+85.41
 1-6" 22.5' RJ BEND

STA. 319+53.69
 1-6" 90° RJ BEND

STA. 318+86.56
 2 - 6" GATE VALVES
 1-FH ASSEMBLY
 STA. 319+13.27
 12" STEEL CASING
 (BORE AND JACK)
 STA. 319+44.81
 12" STEEL CASING
 (BORE AND JACK)

STA. 319+63.26
 1 - CONNECT TO EX. 4" PVC W/
 1 - 6"x4" DI RJ TEE
 1 - CONNECT TO EX. 3" PVC W/
 1 - 4"x3" TEE

NOTE:
 CONTRACTOR SHALL INSTALL RJ FITTINGS AND THRUST BLOCKS AT ALL FITTINGS AND
 SHALL ALSO RESTRAIN THE PIPE WITHIN 30 FEET EACH DIRECTION OF ALL FITTINGS
 WITH RETAINER GLANDS AS SPECIFIED.



ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SOMERSET, KENTUCKY 40501
 PHONE: 606-451-9589

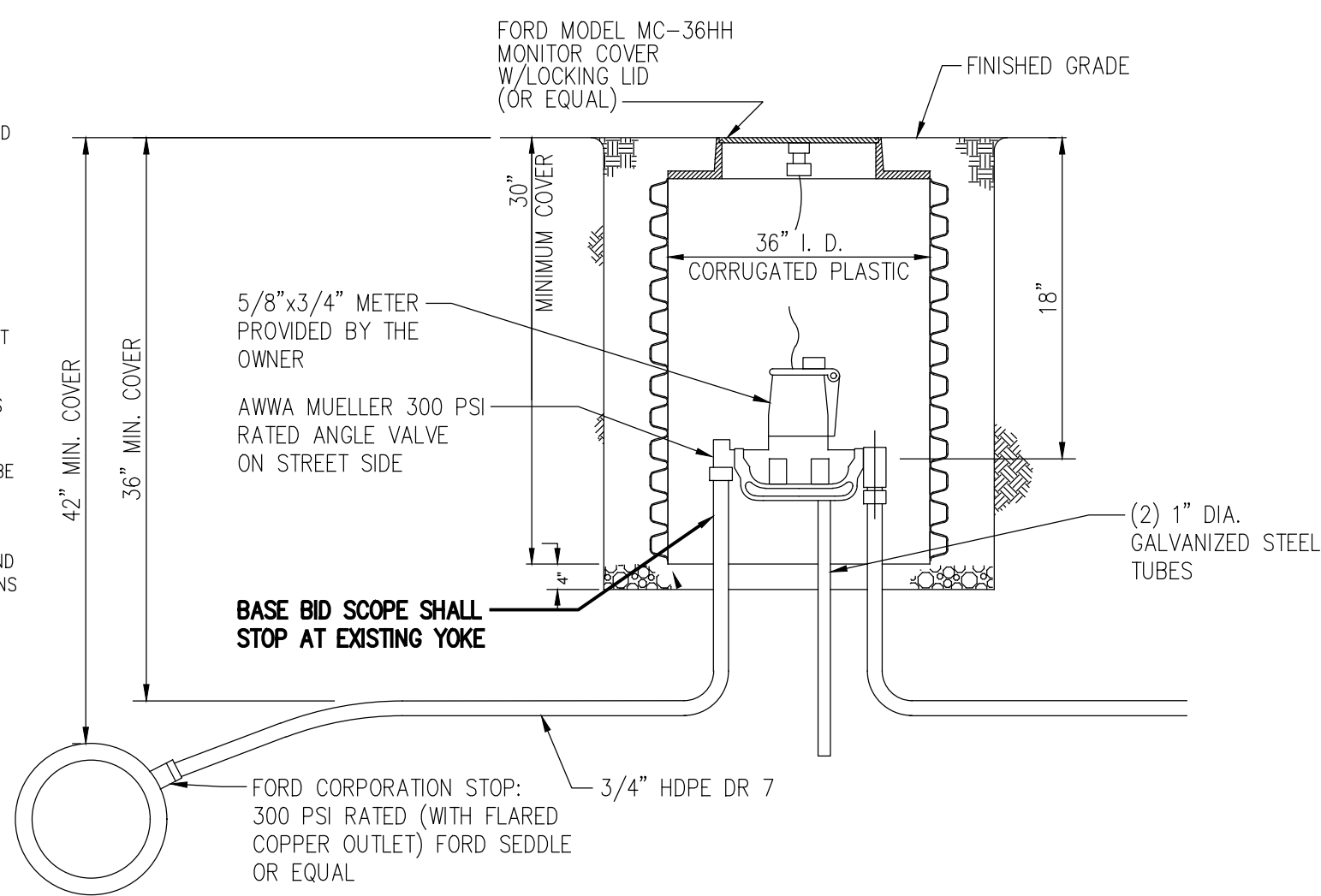
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1" = 50'	ARR	ARR	
DRAWN BY:	DCC		
CHECKED BY:	ARR		
PROJECT NO:	18003		
DATE:	DECEMBER 2020		
CAD DWG ID:	18003 - PLANS.DWG		

McCREARY COUNTY
 WATER DISTRICT
 456 NORTH HIGHWAY 27
 WHITLEY CITY, KY 42663

LINE B WATERLINE STA. 312+50 - 319+63.26
 MARSH CREEK ROAD WATERLINE REPLACEMENT

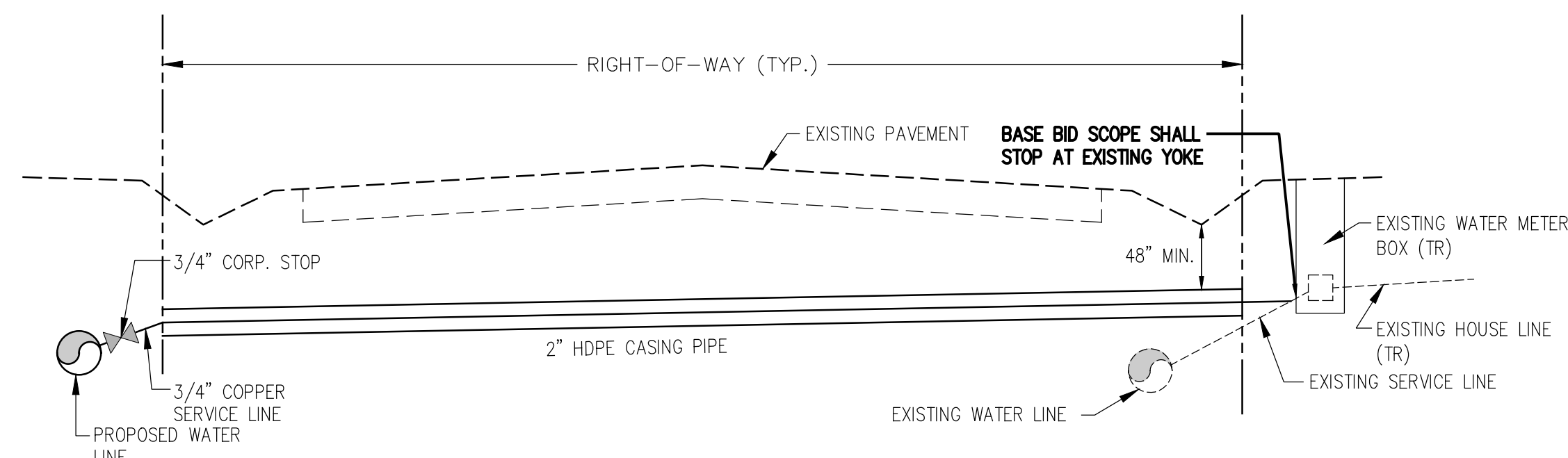
SHEET NUMBER:
23

1. ALL WATER METERS SHALL BE PROVIDED BY THE OWNER.
2. 36" OF COVER SHALL BE REQUIRED OVER SERVICES FROM DISTRIBUTION MAIN TO METER BOX.
3. METER BOX SHALL BE ONE PIECE CONSTRUCTION PVC OR RIGID FIBERGLASS.
4. METER YOKE SHALL BE 7" RISE WITH DUAL PURPOSE COMPRESSION CTS.
5. ALL FITTINGS SHALL BE FLARED. (SOLDERED FITTINGS WILL NOT BE PERMITTED)
6. SERVICE LINE LEAVING METER BOX SHALL BE STUBBED OUT AT LEAST 5' WITH TYPE "K" COPPER OR MUNIPEX PIPE.
7. METER SET BEHIND SIDEWALK - NOT IN DRIVEWAY, WALKWAYS ETC.
8. THE SERVICE LINE BETWEEN THE MAIN AND THE METER WILL BE ONE CONTINUOUS PIECE OF PIPE. (NO JOINTS WILL BE PERMITTED)
9. ALL YARD IRRIGATION CONNECTIONS WILL BE MADE AT THE END OF THE 5-FOOT STUB ON THE HOUSE SIDE. (NO CONNECTIONS WILL BE PERMITTED INSIDE THE METER BOX.)
10. FORD 500P SERIES (OR EQUIVALENT) YOKE AND 1" DIAMETER GALVANIZED STEEL TUBING TO BE USED WITH MUNIPEX SERVICES.
11. FORD FB600-K-NL CORPORATION STOP TO BE USED WITH COPPER SERVICE.
12. FORD FB1000-KX-NL CORPORATION STOP TO BE USED WITH MUNIPEX SERVICES.



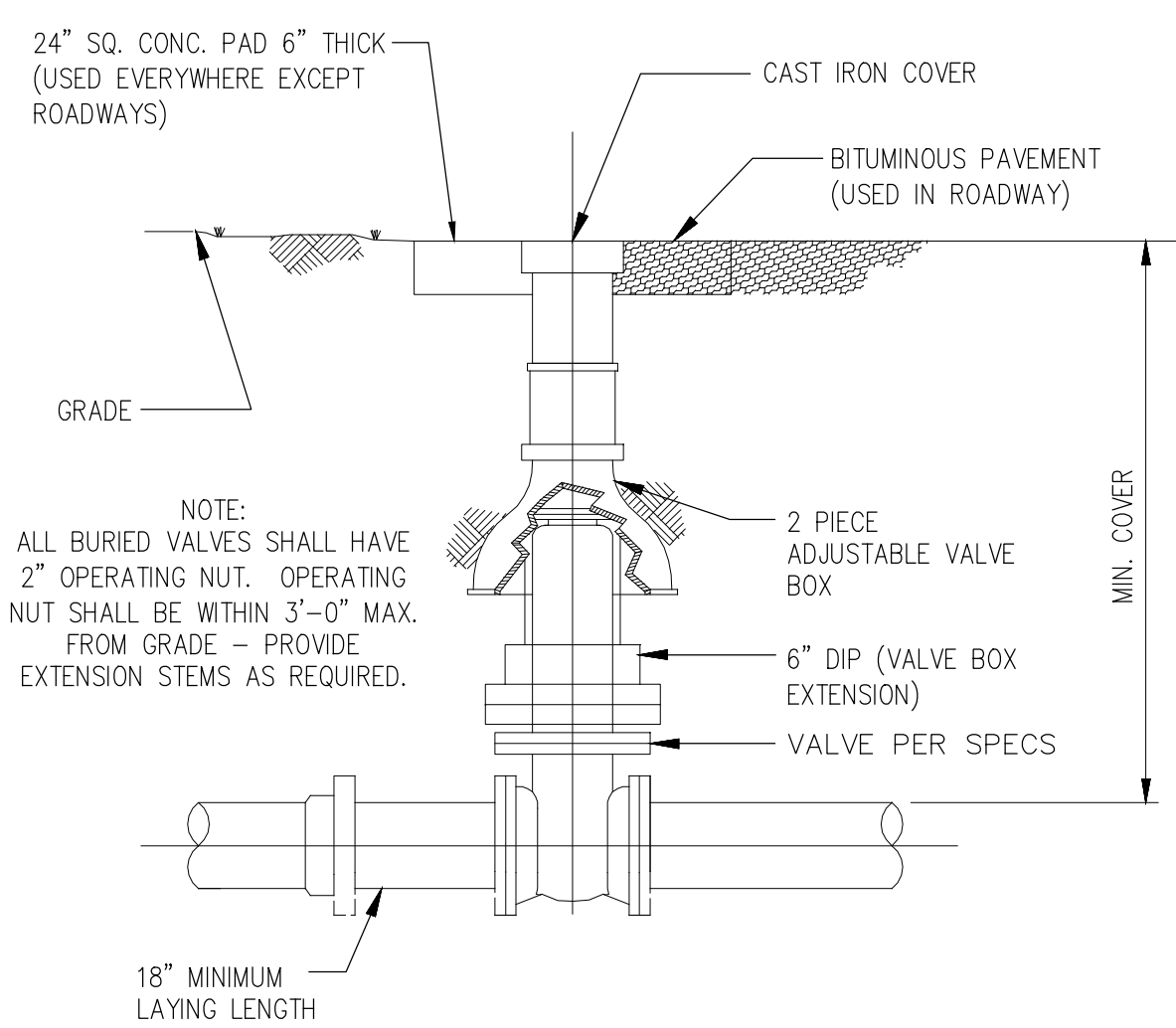
WATER METER DETAIL

NOT TO SCALE



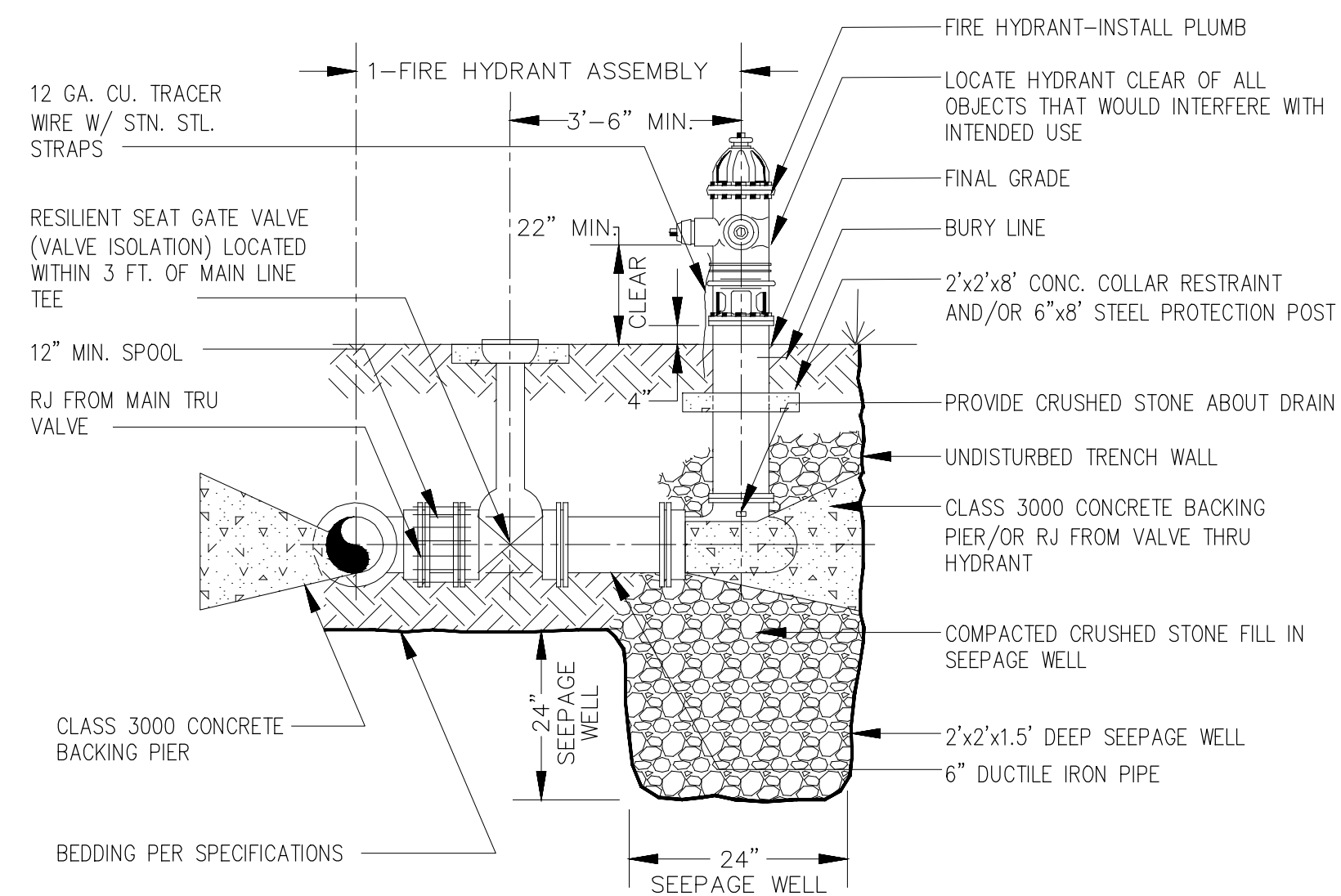
SERVICE RECONNECTIONS

NOT TO SCALE



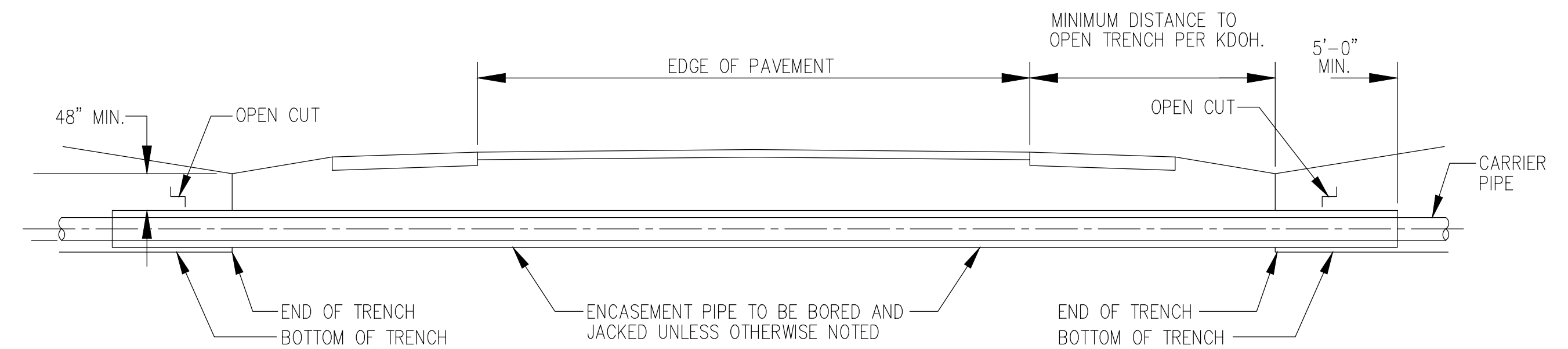
GATE VALVE

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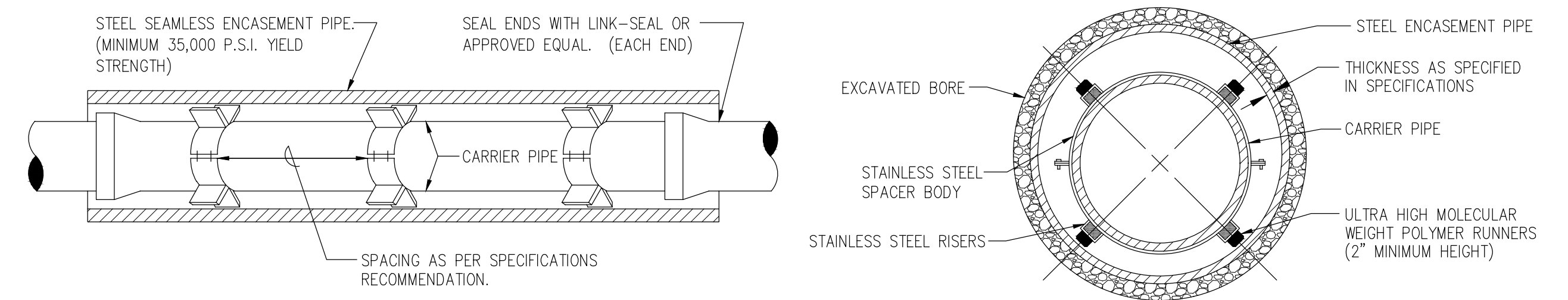
FIRE HYDRANT SETTING

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CROSS SECTION OF ENCASED ROAD CROSSING - (TYP.)

NOT TO SCALE



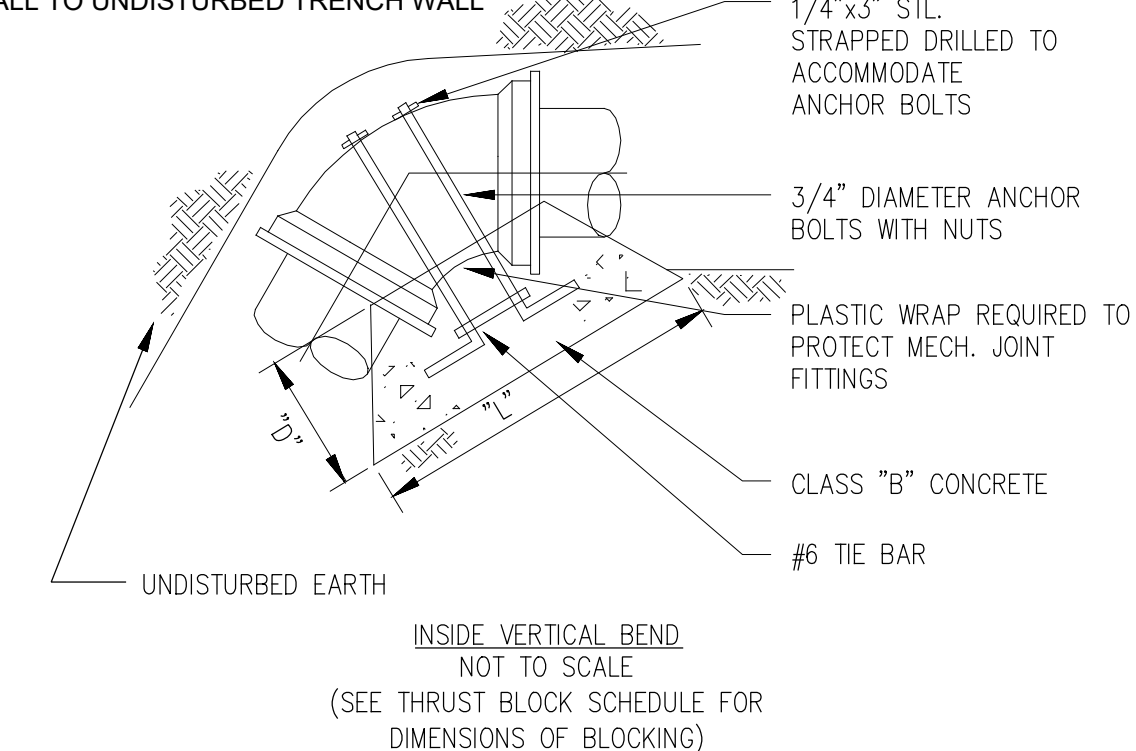
STEEL ENCASEMENT AND ASSEMBLY

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THRUST BLOCK SCHEDULE

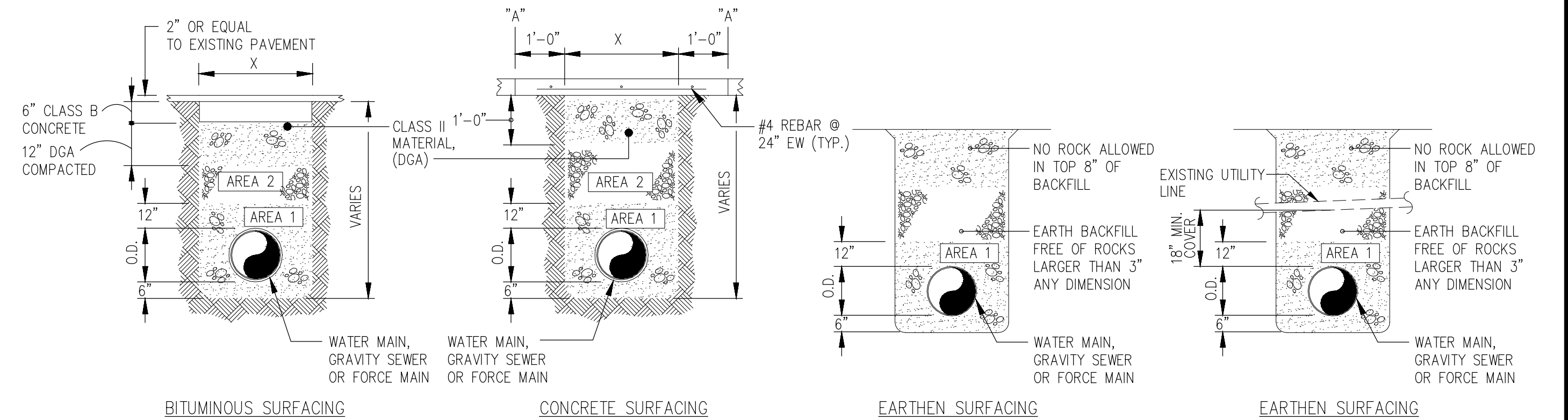
SIZE	90° BEND			45° BEND			22 1/2° BEND			11 1/4° BEND			TEE & END MAIN		
	D	W	L	D	W	L	D	W	L	D	W	L	D	W	L
2"	6"	10"	4"	4"	7"	3"	4"	7"	3"	4"	7"	3"	6"	10"	4"
3"	6"	10"	8"	4"	8"	6"	4"	8"	6"	4"	8"	6"	6"	10"	6"
4"	6"	11"	9"	6"	11"	7"	4"	9"	5"	4"	9"	3"	6"	11"	8"
6"	8"	15"	13"	6"	13"	12"	4"	11"	8"	4"	11"	4"	8"	15"	8"
8"	10"	21"	19"	8"	17"	17"	6"	15"	10"	4"	13"	6"	10"	11"	21"
10"	10"	23"	29"	8"	20"	22"	6"	17"	13"	6"	17"	7"	10"	23"	30"
12"	12"	27"	31"	10"	24"	27"	10"	23"	14"	6"	19"	9"	12"	27"	36"
14"	14"	31"	38"	13"	29"	31"	12"	27"	17"	6"	21"	12"	14"	31"	42"
16"	15"	34"	44"	15"	33"	36"	14"	31"	19"	8"	25"	13"	17"	36"	48"
18"	21"	42"	45"	18"	38"	39"	17"	36"	21"	10"	29"	14"	21"	41"	54"
20"	22"	45"	53"	21"	43"	42"	18"	39"	24"	10"	31"	16"	22"	44"	60"
24"	28"	51"	59"	27"	49"	48"	23"	45"	30"	16"	37"	32"	28"	50"	66"
30"	34"	57"	65"	33"	56"	54"	29"	51"	36"	22"	43"	38"	34"	56"	72"

W = WIDTH OF CONCRETE FROM UNDISTURBED TRENCH WALL TO UNDISTURBED TRENCH WALL



THRUST BLOCKING

NOT TO SCALE



- NOTES:
1. AREA 1 MATERIAL: WATER MAIN, GRAVITY SEWER AND FORCE MAIN = NO. 9 CRUSHED STONE.
 2. AREA 2 = NO. 9 CRUSHED STONE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRENCH SURFACE IN A CONDITION SUITABLE FOR VEHICULAR TRAFFIC.
 3. REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
 4. IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO. 9 CRUSHED STONE MUST BE PLACED UNDER THE ENCASEMENT PIPE (IF OPEN CUT).
 5. X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (2' + PIPE O.D.).
 6. FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST SIX (6) FEET OR MORE, IF LESS THAN SIX (6) FEET REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.

PIPE BEDDING AND BACKFILLING

NOT TO SCALE

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STANDARD DETAILS
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