

WATER SYSTEM IMPROVEMENTS

FOR

OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY

CONTRACT 15-01

16-INCH NORTH WATER TRANSMISSION LINE - PHASE I

FUNDED IN PART BY KENTUCKY INFRASTRUCTURE AUTHORITY

FEDERALLY ASSISTED DRINKING WATER REVOLVING LOAN FUND #F15-069

JOB NO. 2021

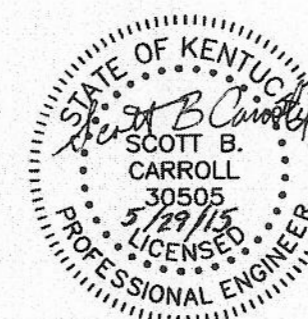
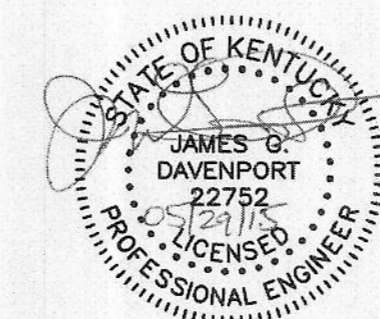
JUNE, 2015

J.R. WAUFORD & COMPANY CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE

(615)883-3243



Know what's below.
Call before you dig.



INDEX OF DRAWINGS

SHEET	DESCRIPTION
1.	KEY MAP
2.	LINE "W-1" - STA. 0+00 TO 14+00
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4.	LINE "W-1" - STA. 27+00 TO 41+00
5.	LINE "W-1" - STA. 41+00 TO 56+00
6.	LINE "W-1" - STA. 56+00 TO 71+00
7.	LINE "W-1" - STA. 71+00 TO 86+00
8.	LINE "W-1" - STA. 86+00 TO 101+00
9.	LINE "W-1" - STA. 101+00 TO 116+00
10.	LINE "W-1" - STA. 116+00 TO 130+00
11.	LINE "W-1" - STA. 130+00 TO 145+00
12.	LINE "W-1" - STA. 145+00 TO E.O.L.
13.	BCBC TANK SITE PLAN AND CONTROL VALVE VAULT
14.	DETAIL SHEET

OFFICIALS

GENERAL MANAGER

WALT BEASLEY

BOARD MEMBERS

BEN EVERLEY, CHAIRMAN

JAMES DEWAYNE JOHNSON

SECRETARY

CHUCK PRICE, TREASURER

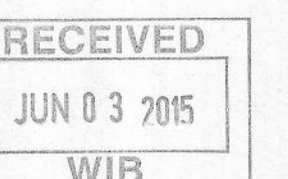
MARK WHITEHOUSE

EDDIE EMBRY

CLETUS GREER

REID HAIRE

3305 AP E20150001
0920330-15-001



APPROVED: *Walt Beasley*
WALT BEASLEY, GENERAL MANAGER

KEY MAP LEGEND

— EXISTING WATER LINES
 — PROPOSED WATER LINE

LEGEND FOR PLAN SHEETS

PROPOSED

— WATER LINE
 — BUTTERFLY VALVE ASSEMBLY
 — AIR RELEASE VALVE ASSEMBLY
 — BLOW OFF VALVE ASSEMBLY
 — PROPOSED FIRE HYDRANT

EXISTING

— 4" W WATER LINE
 — 2" G GAS LINE
 — UGT UNDERGROUND TELEPHONE CABLE
 - - - RIGHT-OF-WAY
 - - - PROPERTY LINE
 - - - PAVED SURFACE
 - - - UNPAVED SURFACE
 ===== RAILROAD TRACKS
 - - - TOP / TOE OF BANK
 - - - DITCH LINE OR CREEK
 - - - TREE LINE
 (CLOUD) TREE
 (WAVE) HEDGE ROW
 (BUSH) BUSH
 (FENCE) FENCE LINE
 (M) WATER METER
 (G) GAS METER
 (V) VALVES
 (F) FIRE HYDRANT
 (P) POWER POLE & GUY WIRE
 (+) SIGNS
 (M) MAILBOX
 (C) CATCH BASIN
 (R) RIGHT-OF-WAY MONUMENT
 (P) PROPERTY PIN
 (B) BENCH MARK



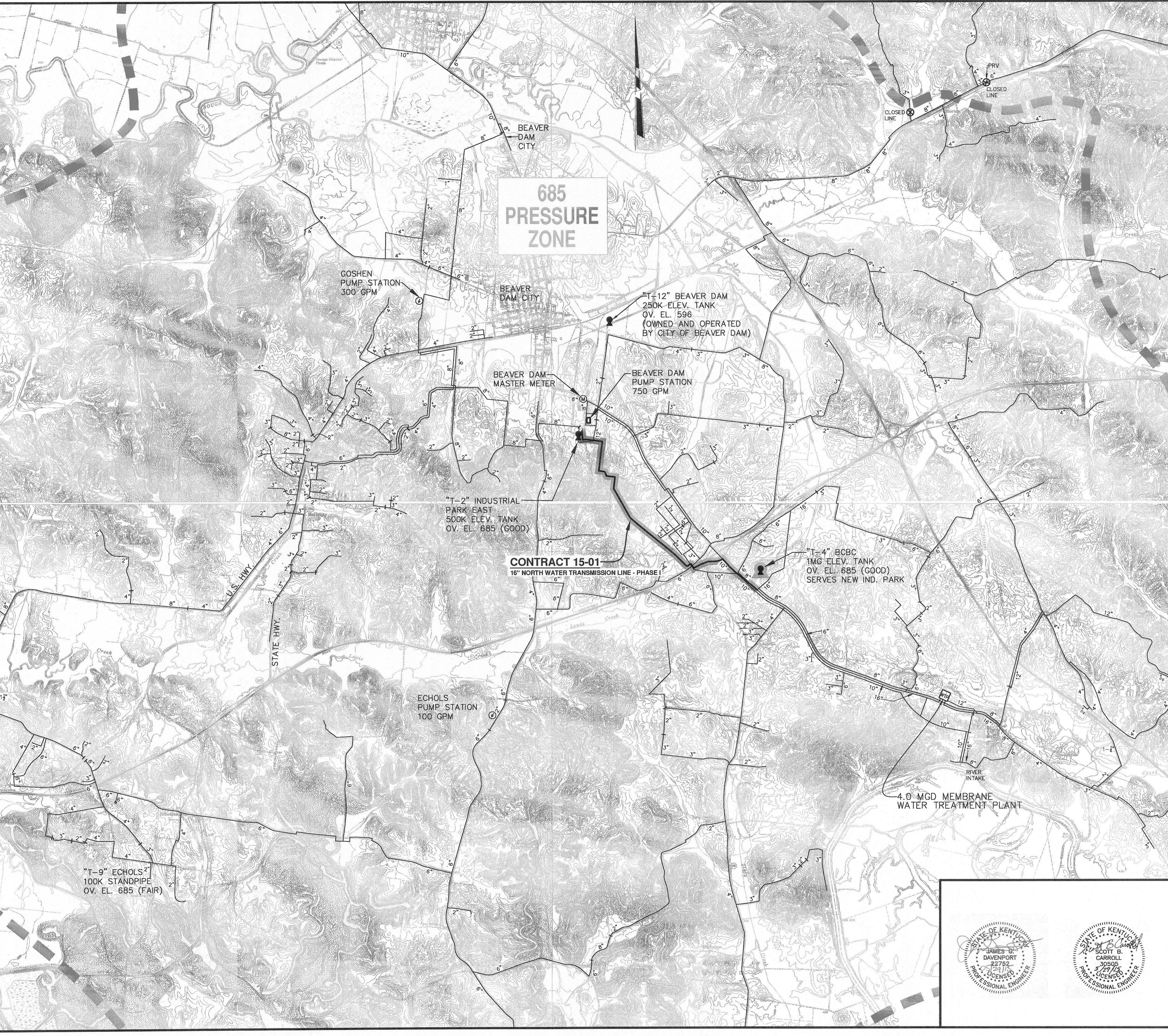
Know what's below.
 Call before you dig.

GENERAL NOTES

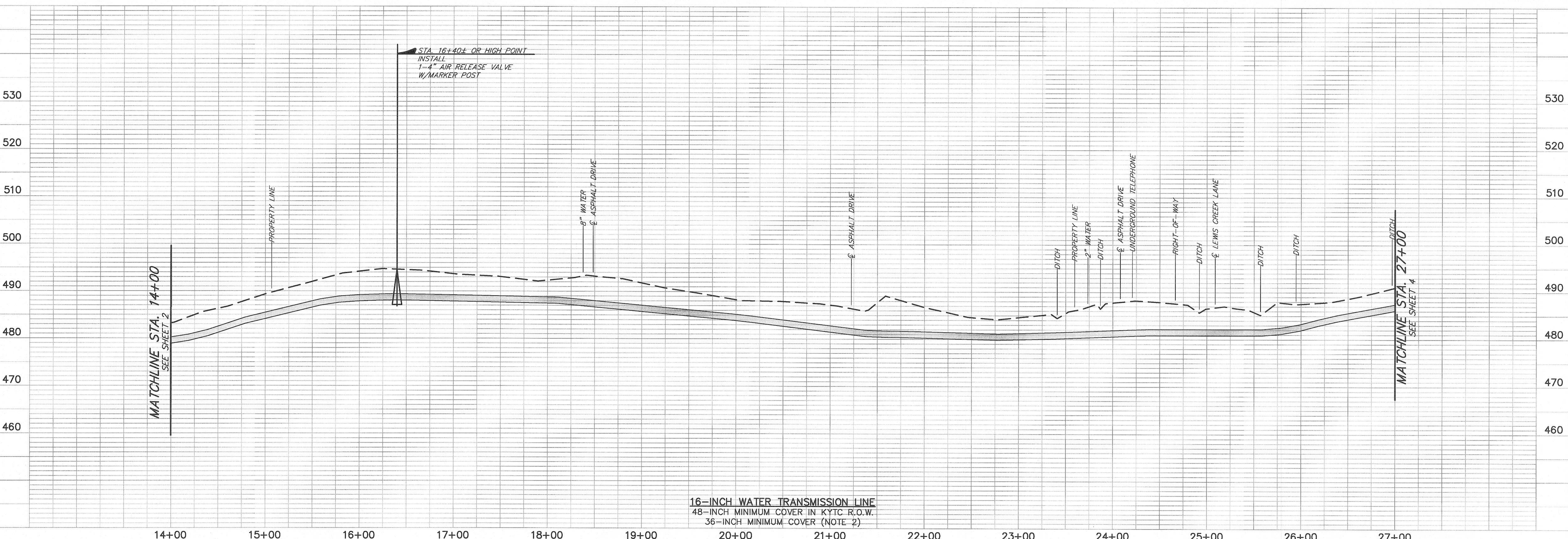
1. THE CONTRACTOR IS PROHIBITED FROM EXCAVATING BY KRS CHAPTER 367 UNTIL EXISTING UNDERGROUND UTILITIES HAVE BEEN LOCATED BY PROPERLY NOTIFIED UTILITY COMPANIES. UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR SHALL IDENTIFY AND CONTACT ALL UTILITIES PER LEGAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE STRICTLY AND SOLELY LIABLE FOR ANY FINES LEVIED BY ANY REGULATORY AGENCY DUE TO VIOLATION OF WATER QUALITY CAUSED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL USE ALL NECESSARY TEMPORARY WATER POLLUTION CONTROL MEANS AS SPECIFIED TO PREVENT TRANSPORT OF SEDIMENT INTO WATERWAYS AT NO ADDITIONAL COST TO THE OWNER.
3. EXISTING WATERLINE LOCATIONS SHOWN HEREON ARE APPROXIMATE AND BASED ON AS BUILT DRAWINGS PROVIDED BY OWNER.
4. MAIN LINE TIE-INS SHALL BE COORDINATED AND SCHEDULED SUCH THAT WATER SERVICE SHALL NOT BE INTERRUPTED FOR MORE THAN TWO HOURS IN A SINGLE TWENTY FOUR HOUR PERIOD. INTERRUPTED SERVICE PERIODS SHALL BE LIMITED TO MID-MORNING TO MID-AFTERNOON.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH KYTC REQUIREMENTS. CONTACT KENTUCKY TRANSPORTATION CABINET DISTRICT OFFICE FOR TRAFFIC CONTROL MANUALS.
6. THE NAMES OF PROPERTY OWNERS, PROPERTY LINES, STREET AND ROAD RIGHTS-OF-WAY SHOWN ON THESE PLANS WERE OBTAINED FROM OHIO COUNTY TAX MAPS AND THE OHIO COUNTY PROPERTY VALUATION ADMINISTRATION. THIS INFORMATION IS ONLY GENERAL IN NATURE AND IS NOT GUARANTEED BY THE ENGINEER.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL HAVE ON HAND ALL APPROPRIATE REPAIR SLEEVES, ETC., TO QUICKLY CORRECT DAMAGE TO ALL SIZES AND MATERIAL OF EXISTING WATERLINE. SOUNDINGS AND HAND EXCAVATION SHALL BE NECESSARY TO AVOID DAMAGING EXISTING LINES.
8. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS PERTAINING TO EXISTING ASBESTOS CEMENT PIPE.
9. THE CONTRACTOR SHALL REPLACE ANY PAVEMENT DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF CONSTRUCTION AS SET OUT IN SECTION 1 OF THE DETAILED SPECIFICATIONS AND/OR AS SHOWN ON THE PLANS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ALL EXISTING DRAINAGE CULVERTS DISTURBED DURING CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
12. WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.

**685
 PRESSURE
 ZONE**

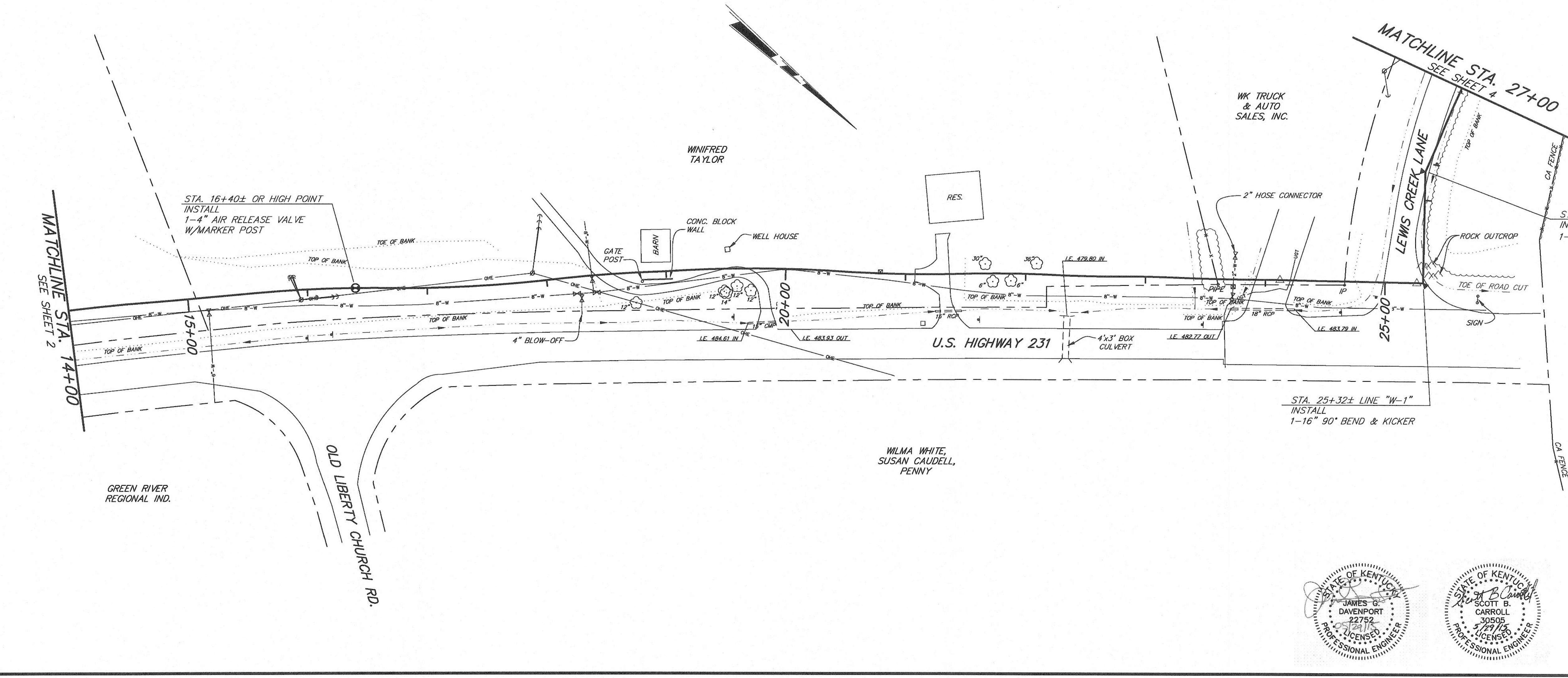
CONTRACT 15-01
 16" NORTH WATER TRANSMISSION LINE - PHASE I



SHEET 1 OF 14	WATER SYSTEM IMPROVEMENTS		
REVISIONS	CONTRACT 15-01		
	16-INCH NORTH WATER TRANSMISSION LINE - PHASE I		
	KEY MAP		
	FOR		
	OHIO COUNTY WATER DISTRICT		
	OHIO COUNTY, KENTUCKY		
APPROVED	SCALE	J. R. WAUFORD & CO.	DESIGNED
	1" = 2500'	CONSULTING ENGINEERS, INC.	SBC
	DATE	NASHVILLE, TENNESSEE	DRAWN
	JUNE 2015	JOB No. 2021	RSS
			CHECKED
			JGD

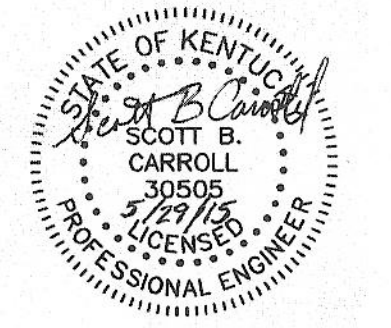
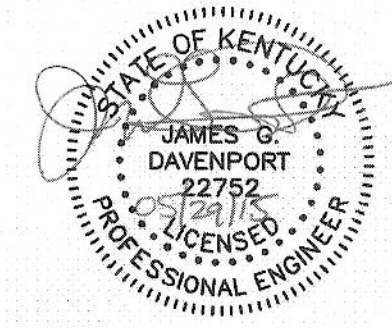


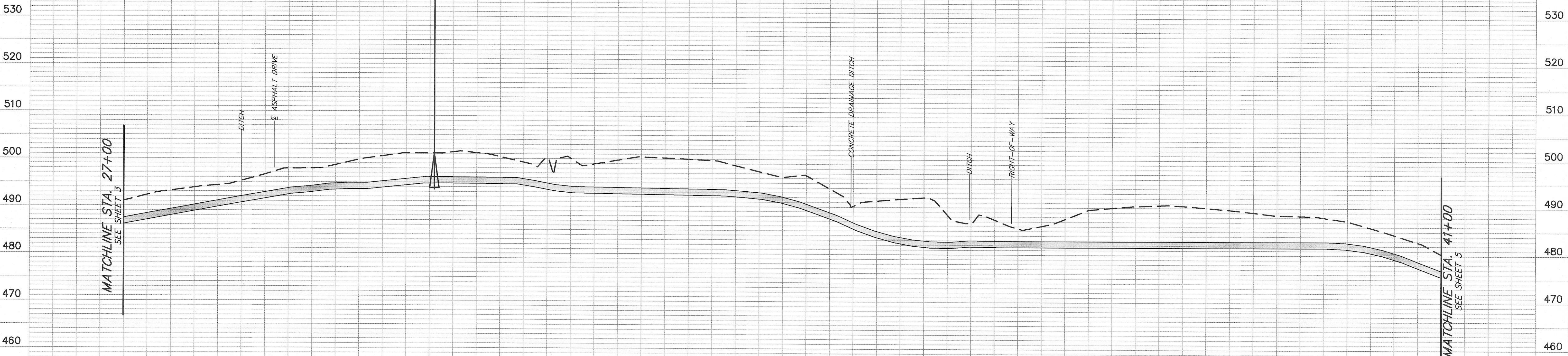
16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)



- CONSTRUCTION NOTES:**
- SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
 - ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.

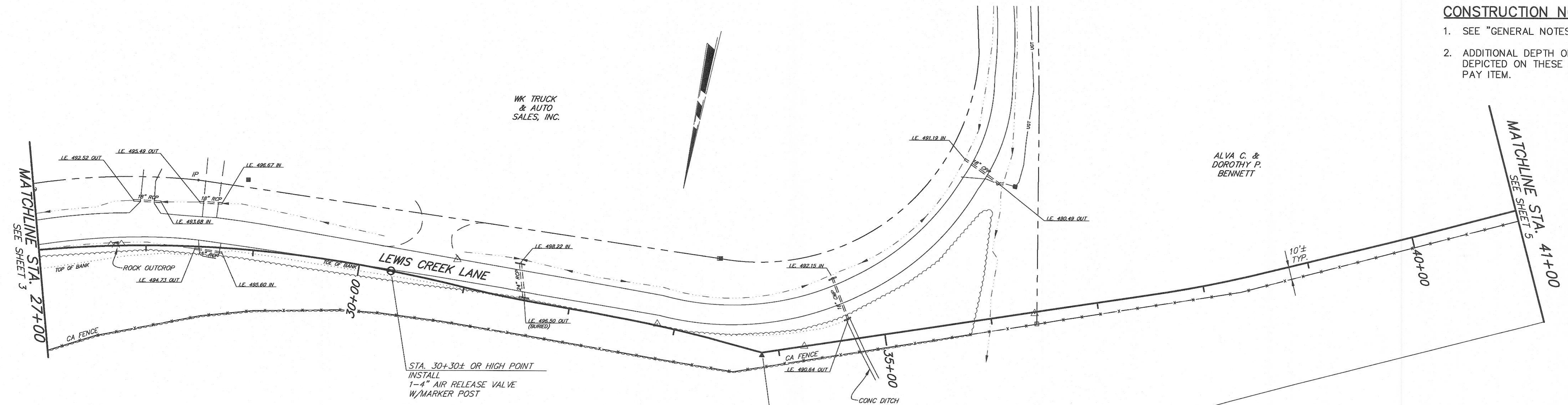
SHEET 3 OF 14	WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I		
	WATER LINE "W-1" - STA. 14+00 TO STA. 27+00		
FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY			
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE	DESIGNED SBC
	DATE JUNE 2015		DRAWN RSS
			CHECKED JGD
			JOB NO. 2021





16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)

27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00

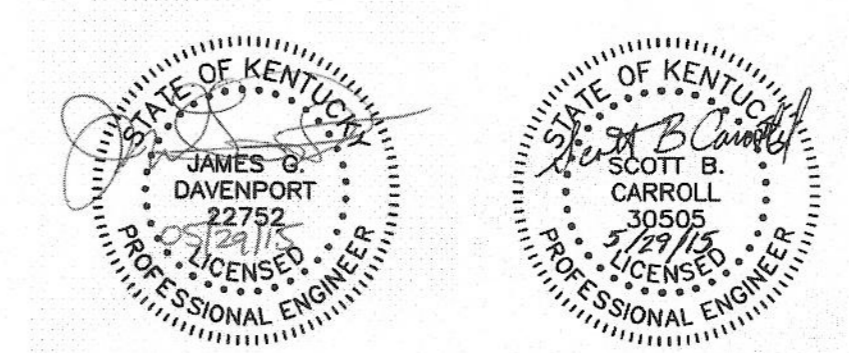


- CONSTRUCTION NOTES:**
1. SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
 2. ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.

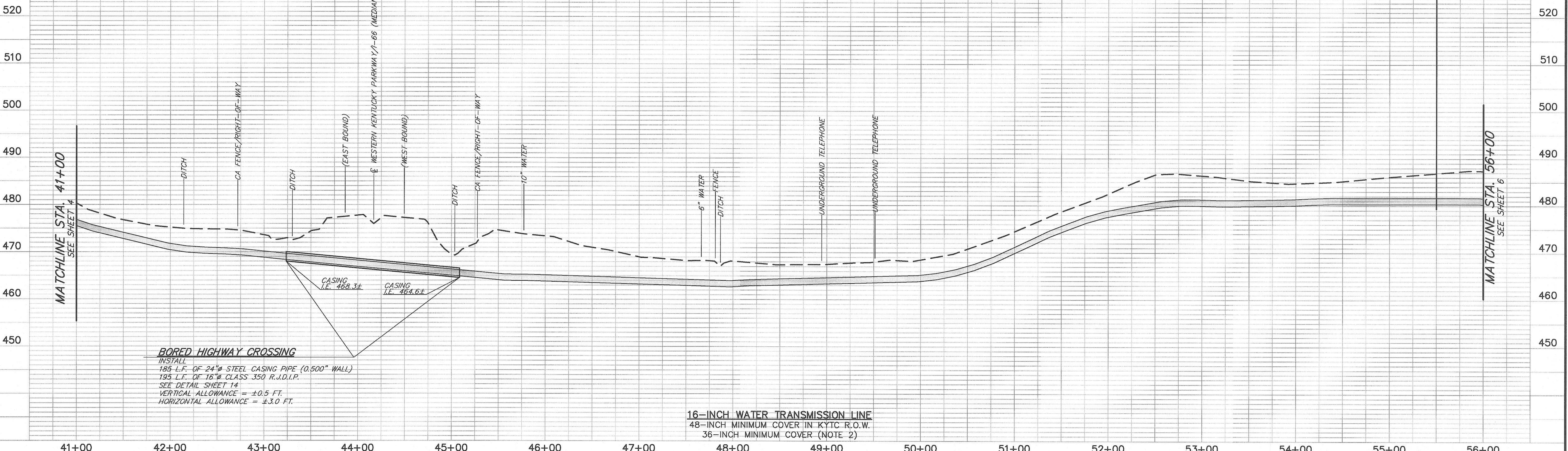
STA. 30+30± OR HIGH POINT
 INSTALL
 1-4" AIR RELEASE VALVE
 W/MARKER POST

STA. 33+84± LINE "W-1"
 INSTALL
 1-16" 22½° BEND & KICKER

SHEET 4 OF 14		WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
REVISIONS		WATER LINE "W-1" - STA. 27+00 TO STA. 41+00	
FOR		OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY	
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	DESIGNED SBC
	DATE JUNE 2015		DRAWN RSS
			CHECKED JGD



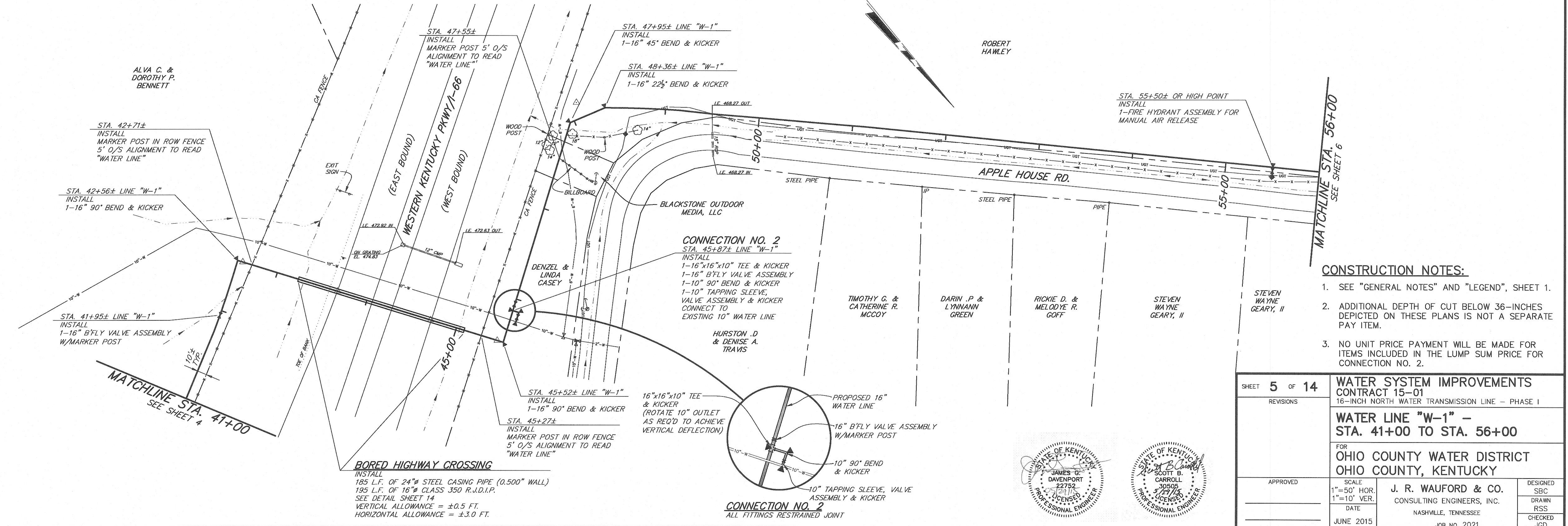
STA. 55+50± OR HIGH POINT
 INSTALL
 1-FIRE HYDRANT ASSEMBLY FOR
 MANUAL AIR RELEASE



BORED HIGHWAY CROSSING
 INSTALL
 185 L.F. OF 24"Ø STEEL CASING PIPE (0.500" WALL)
 195 L.F. OF 16"Ø CLASS 350 R.J.D.I.P.
 SEE DETAIL SHEET 14
 VERTICAL ALLOWANCE = ±0.5 FT.
 HORIZONTAL ALLOWANCE = ±3.0 FT.

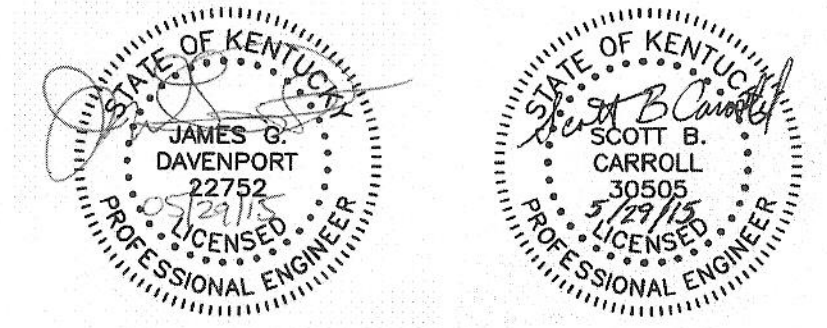
16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)

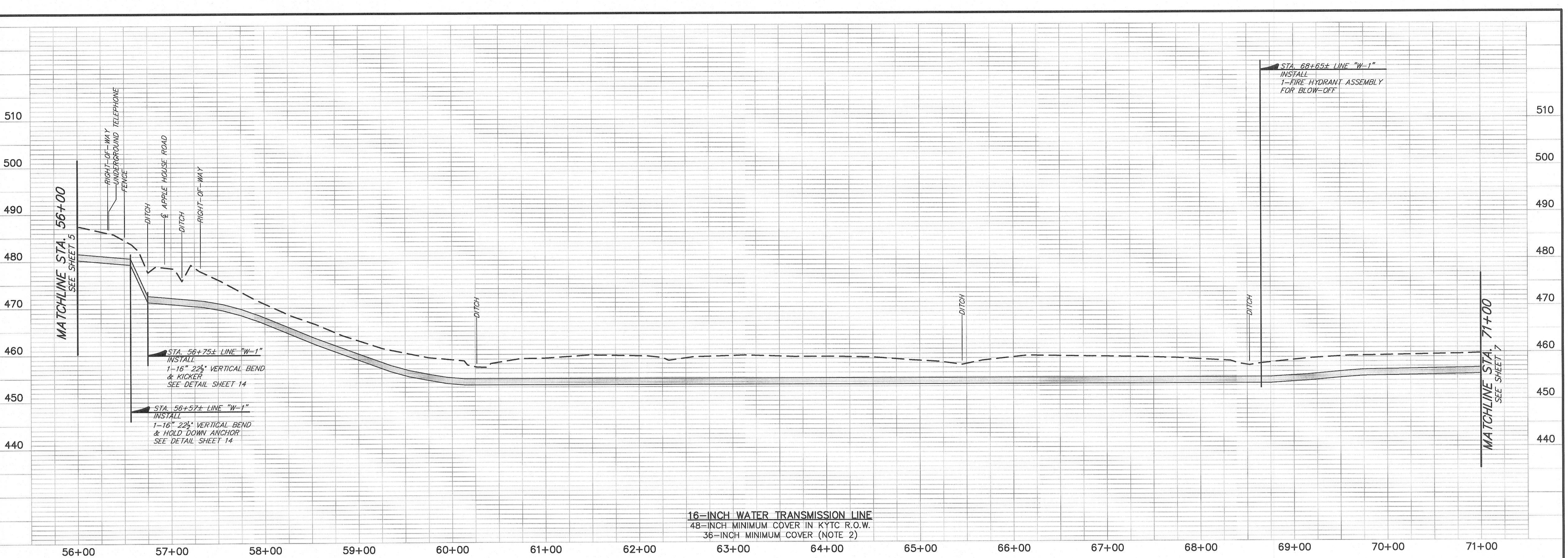
41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00



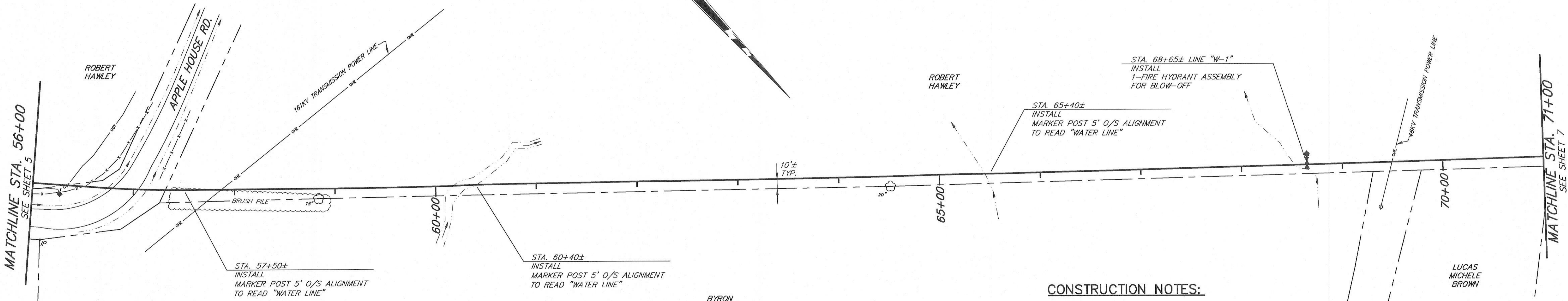
- CONSTRUCTION NOTES:**
- SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
 - ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.
 - NO UNIT PRICE PAYMENT WILL BE MADE FOR ITEMS INCLUDED IN THE LUMP SUM PRICE FOR CONNECTION NO. 2.

SHEET 5 OF 14	WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I		
	WATER LINE "W-1" - STA. 41+00 TO STA. 56+00		
FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY			
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB No. 2021	DESIGNED SBC DRAWN RSS CHECKED JGD
	DATE JUNE 2015		

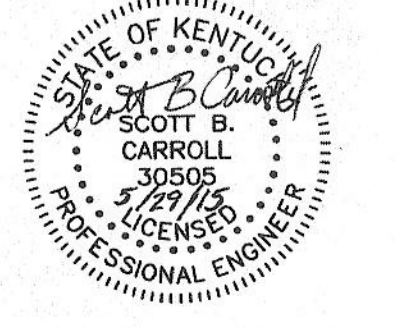
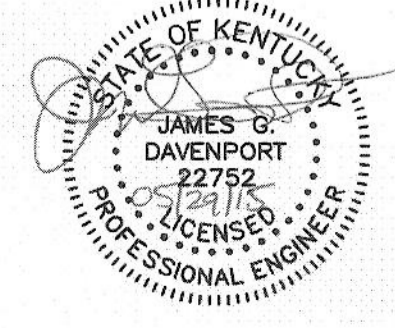




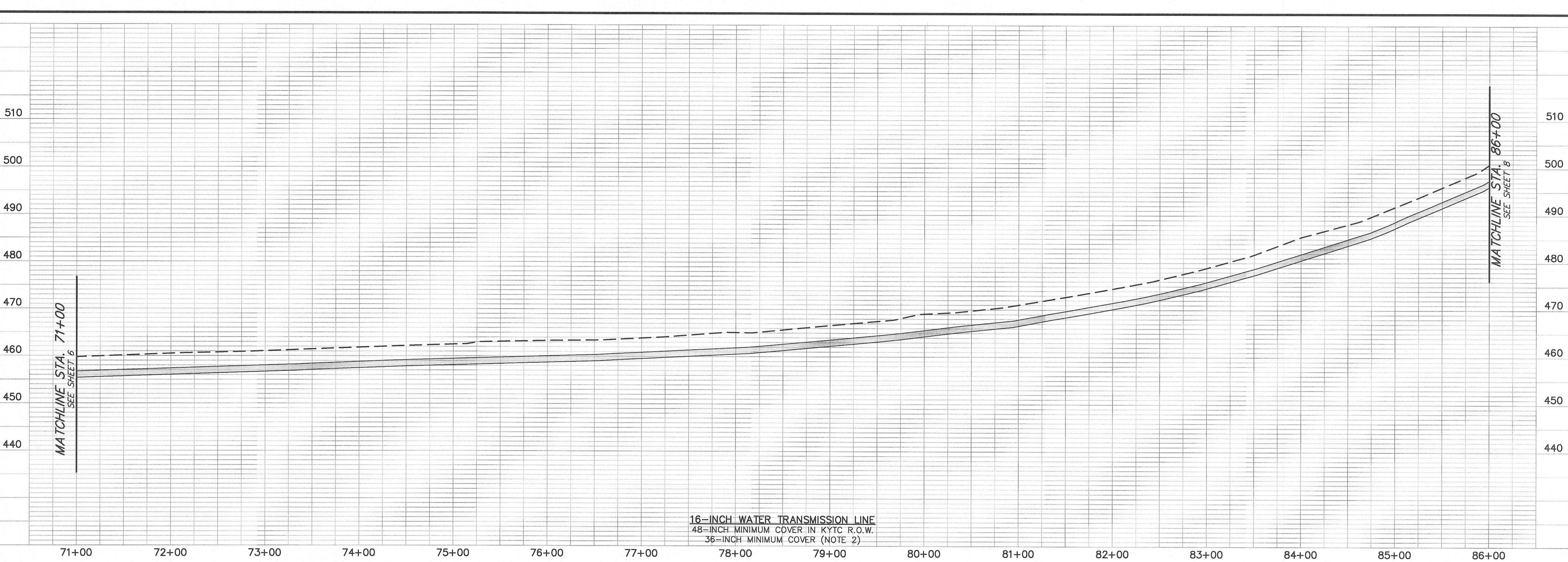
16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)



- CONSTRUCTION NOTES:**
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 2. ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.

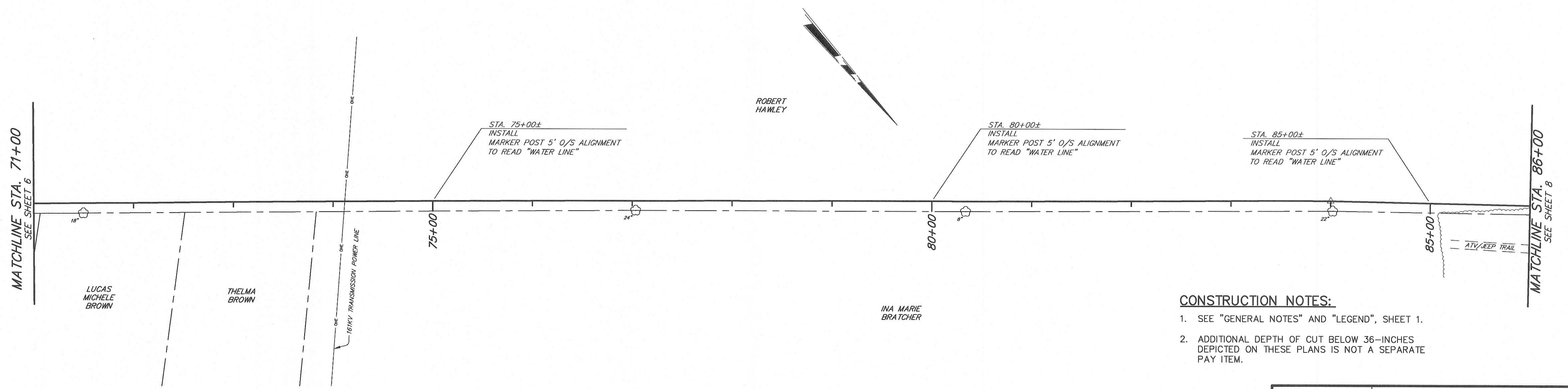


SHEET 6 OF 14	WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
REVISIONS	WATER LINE "W-1" - STA. 56+00 TO STA. 71+00	
	FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY	
APPROVED	SCALE 1"=50' HOR. 1"=10' VER. DATE JUNE 2015	DESIGNED SBC DRAWN RSS CHECKED JGD
	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	



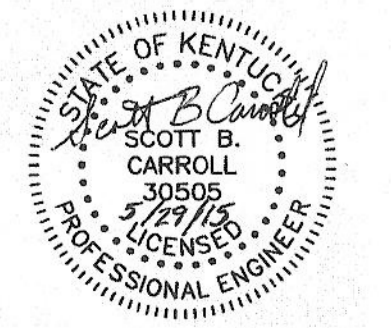
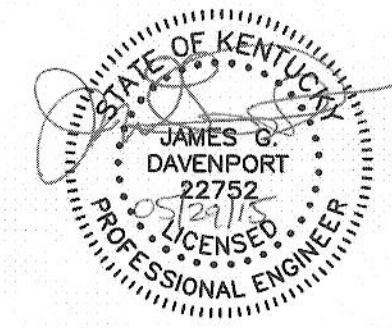
16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)

71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00 86+00

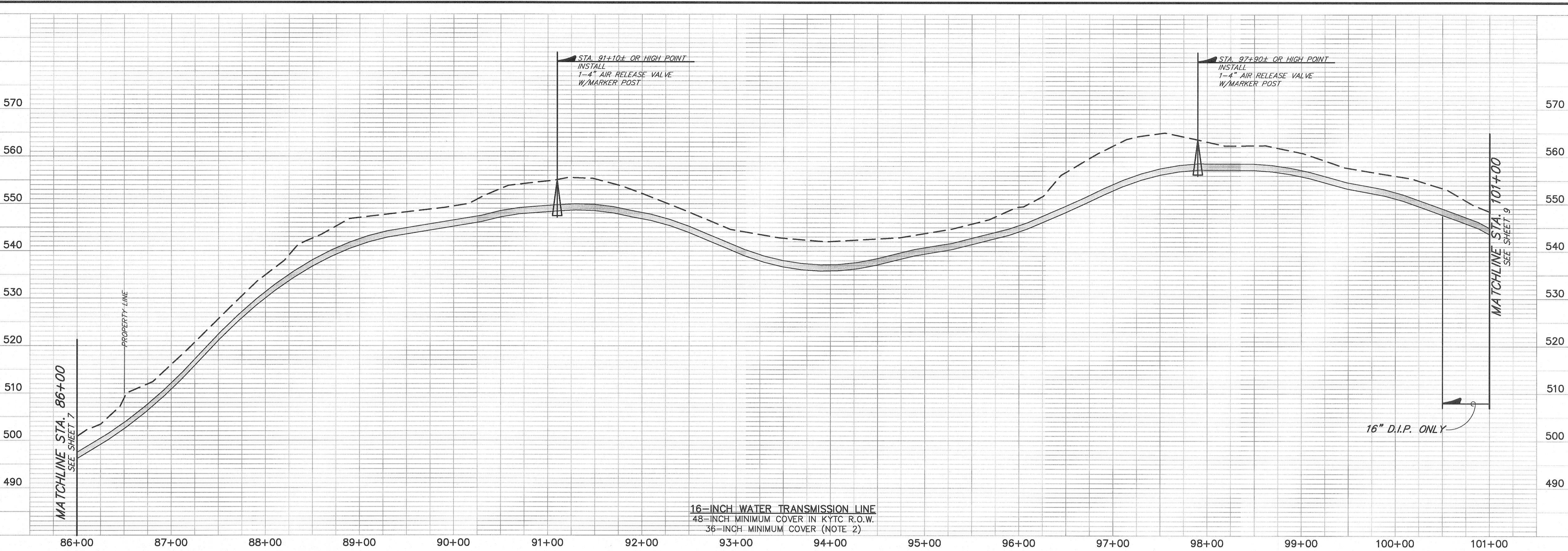


CONSTRUCTION NOTES:

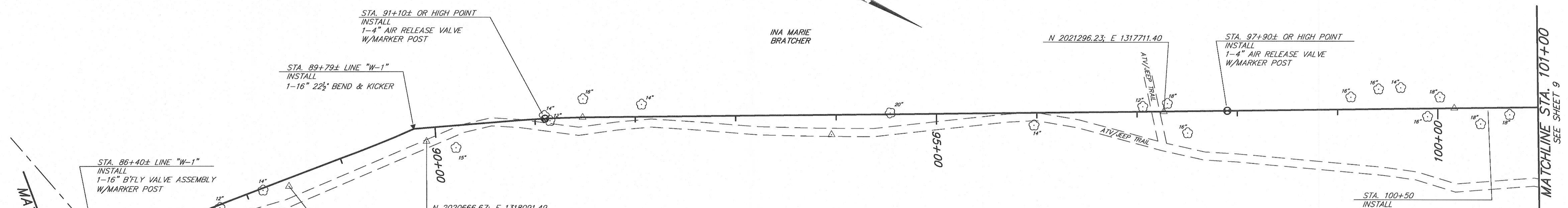
1. SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
2. ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.



SHEET 7 OF 14	WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I		DESIGNED SBC
REVISIONS	WATER LINE "W-1" - STA. 71+00 TO STA. 86+00		DRAWN RSS
	FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY		CHECKED JGD
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE	JOB NO. 2021
	DATE JUNE 2015		



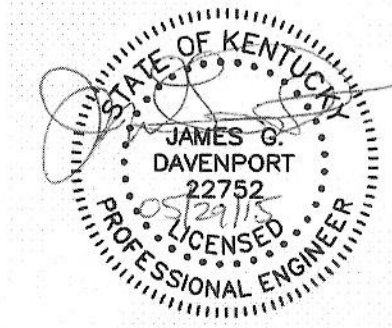
16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)



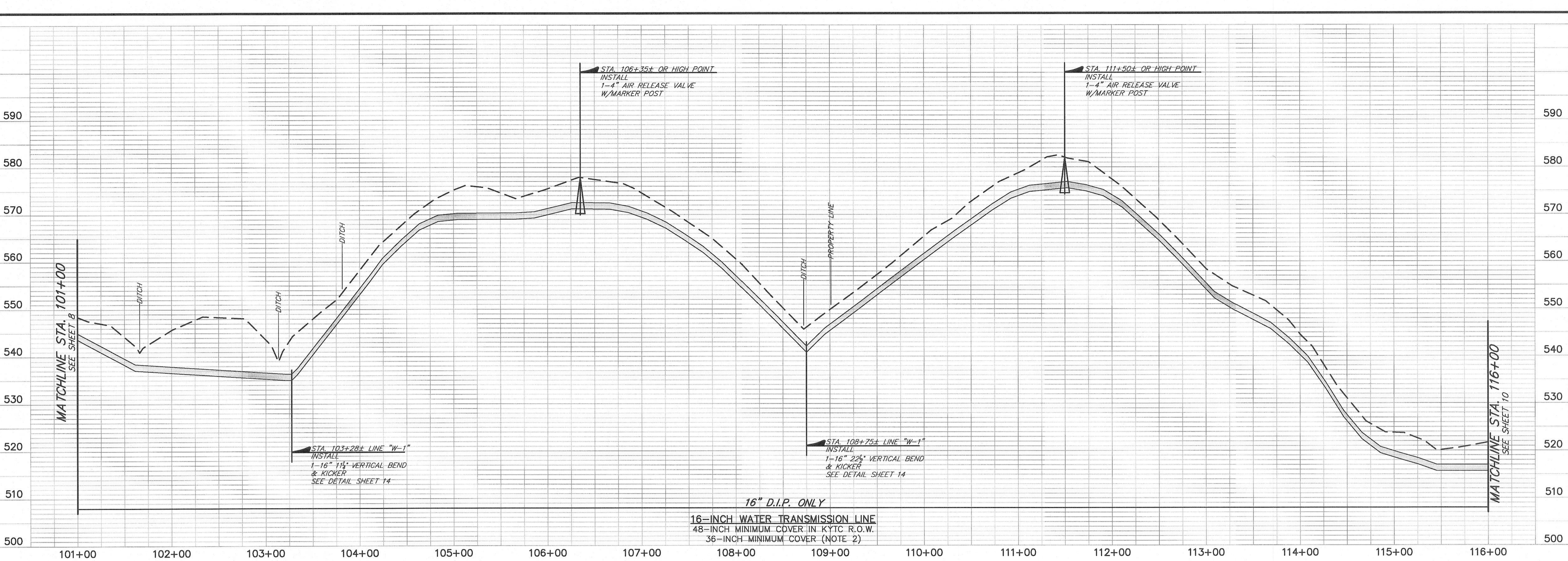
CONSTRUCTION NOTES:

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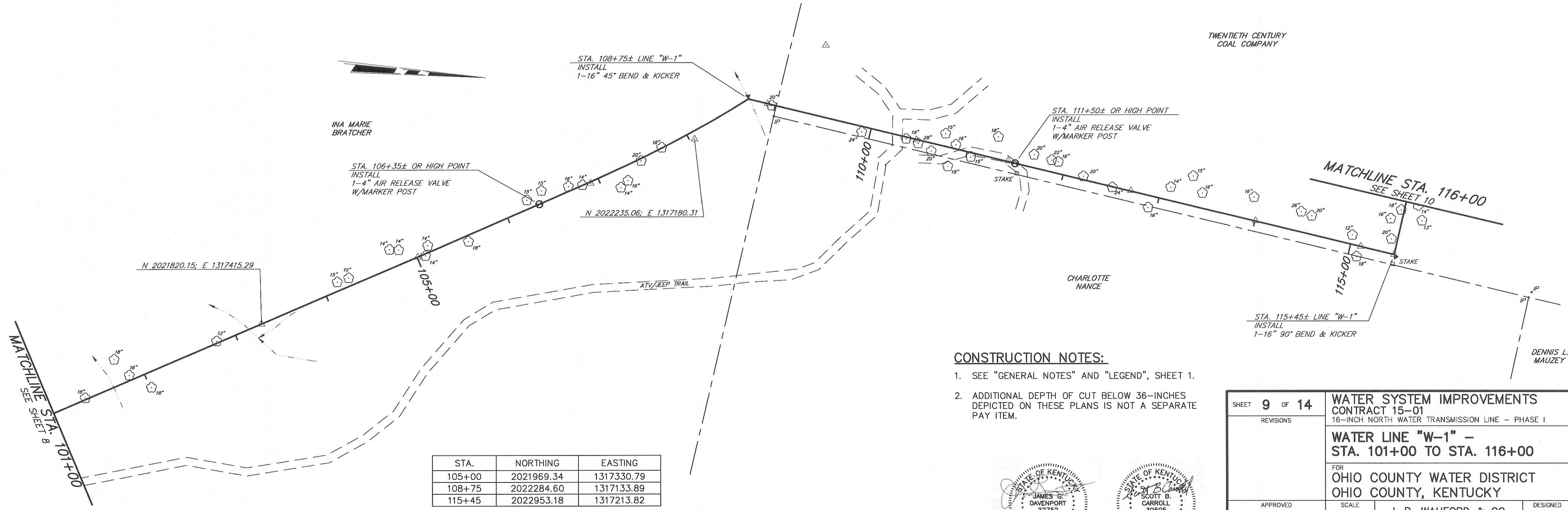
STA.	NORTHING	EASTING
89+79	2020649.66	1318086.80
95+00	2021098.69	1317822.70
100+00	2021534.10	1317576.90



SHEET 8 OF 14		WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
REVISIONS		WATER LINE "W-1" - STA. 86+00 TO STA. 101+00	
FOR		OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY	
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	DESIGNED SBC
DATE JUNE 2015			DRAWN RSS
			CHECKED JGD

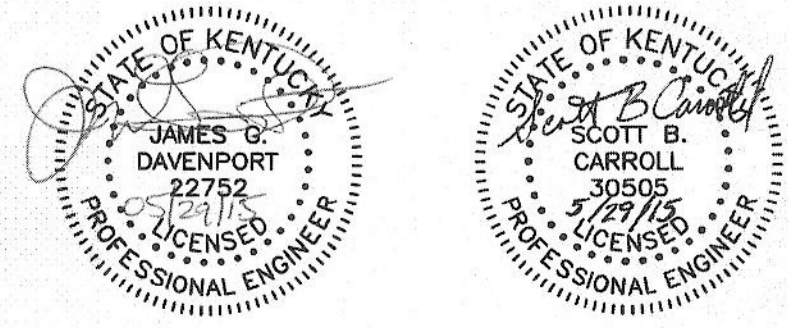


16" D.I.P. ONLY
 16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)

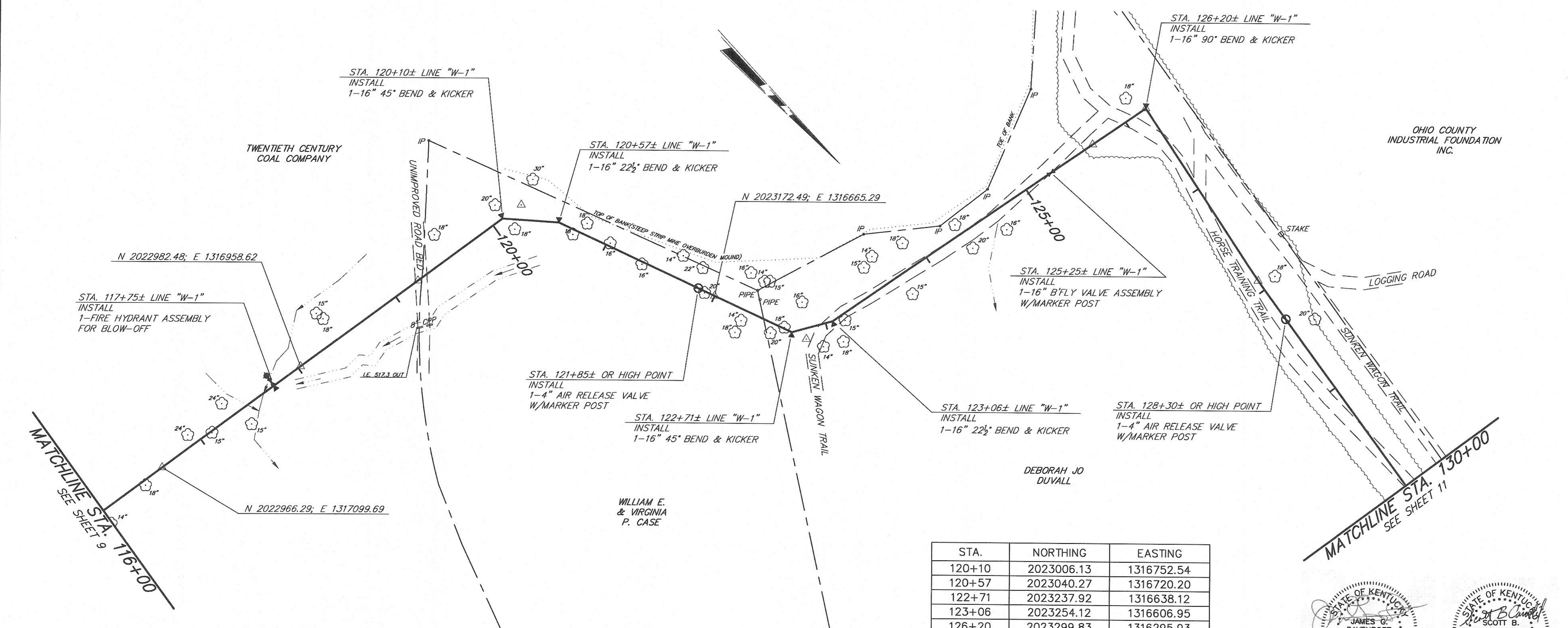
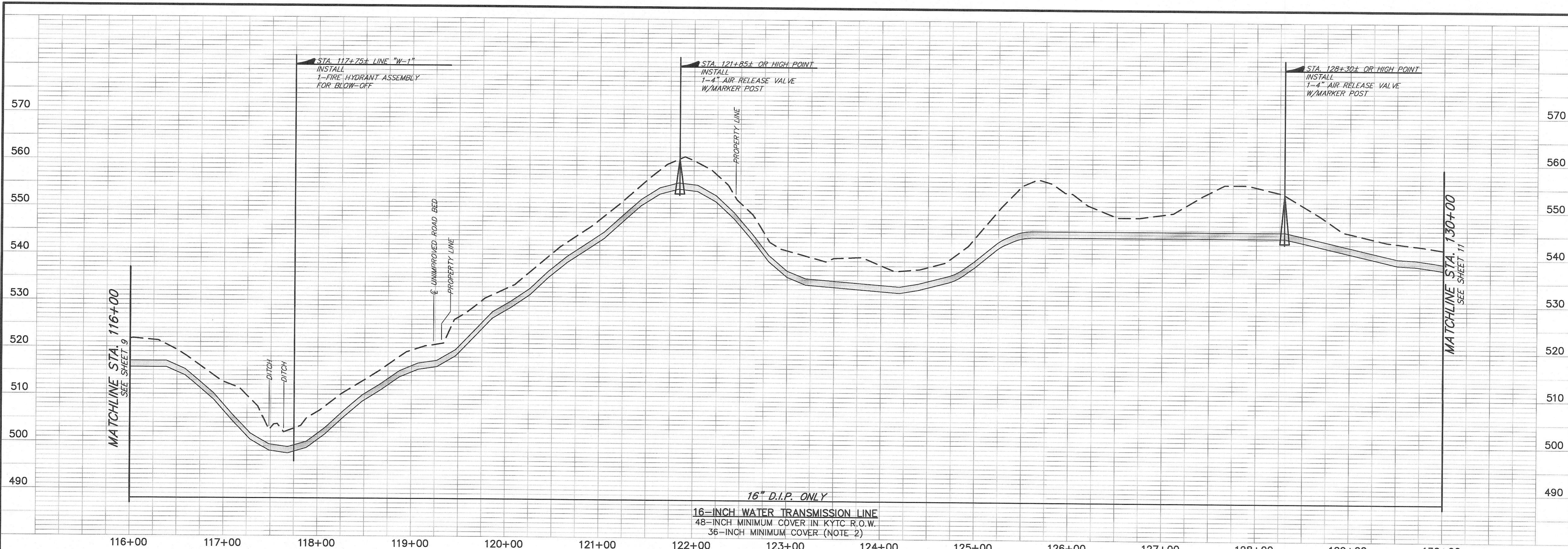


STA.	NORTHING	EASTING
105+00	2021969.34	1317330.79
108+75	2022284.60	1317133.89
115+45	2022953.18	1317213.82

- CONSTRUCTION NOTES:**
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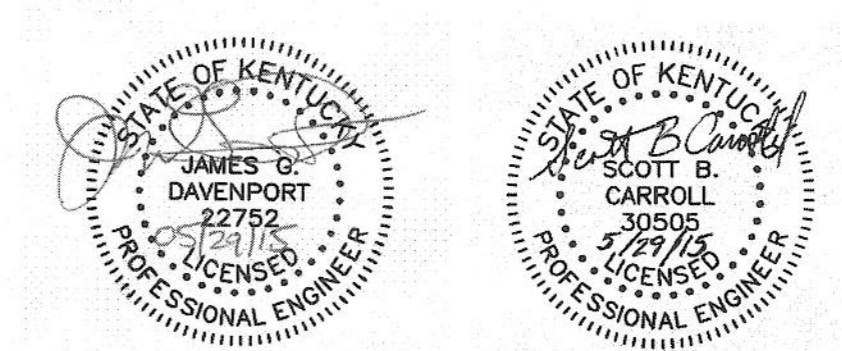


SHEET 9 OF 14	WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
	WATER LINE "W-1" - STA. 101+00 TO STA. 116+00	
FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY		
APPROVED	SCALE 1"=50' HOR. 1"=10' VER. DATE JUNE 2015	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021
		DESIGNED SBC DRAWN RSS CHECKED JGD

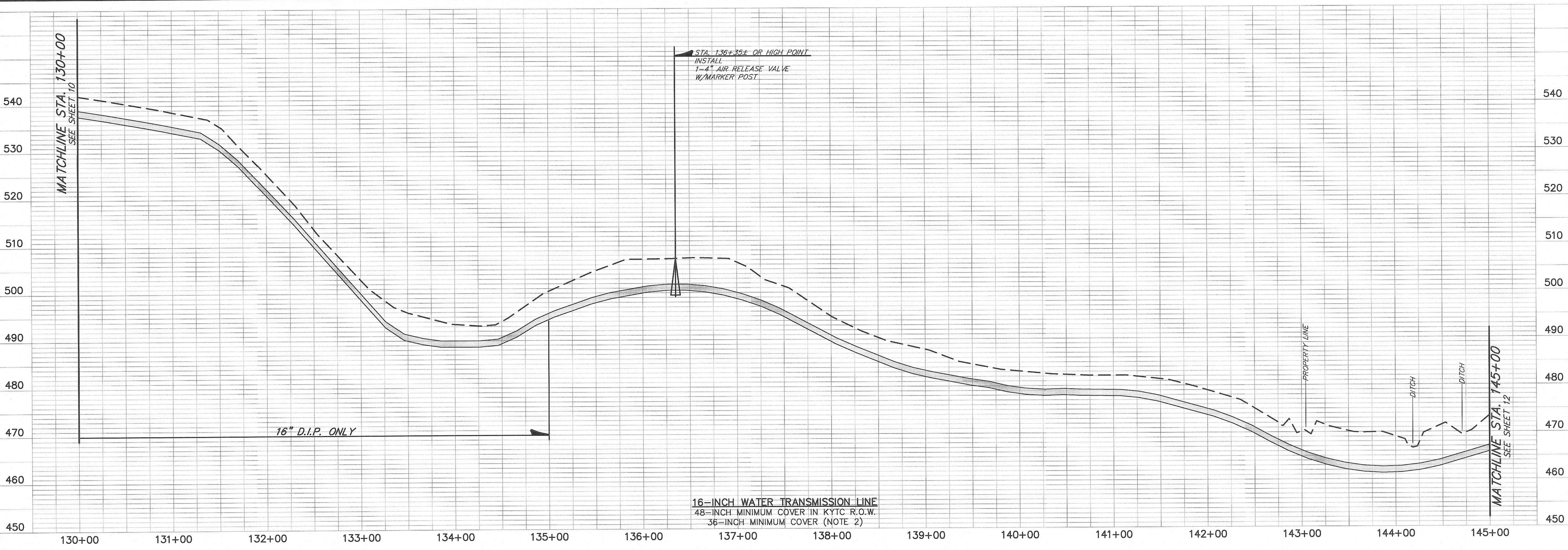


- CONSTRUCTION NOTES:**
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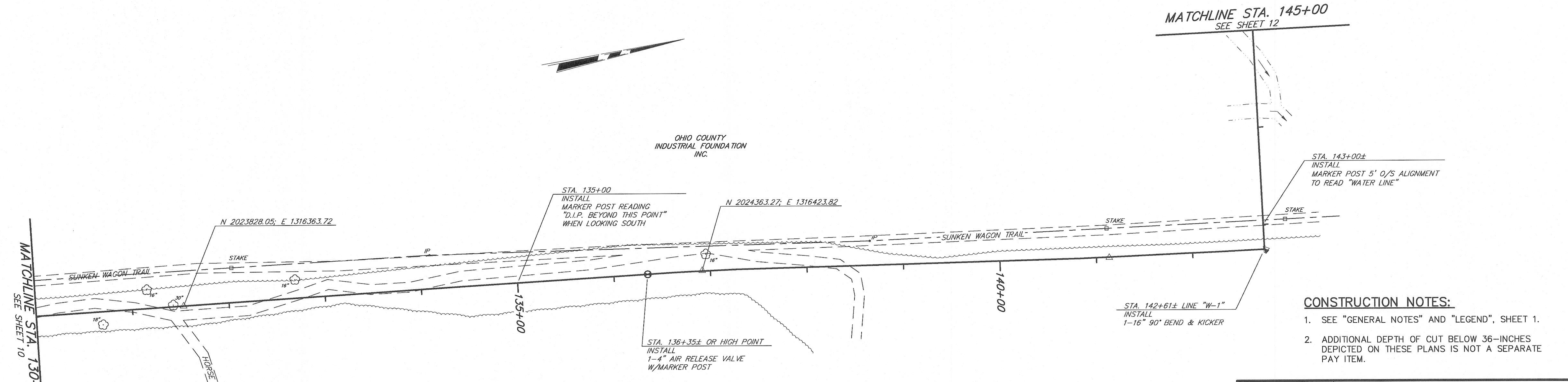
STA.	NORTHING	EASTING
120+10	2023006.13	1316752.54
120+57	2023040.27	1316720.20
122+71	2023237.92	1316638.12
123+06	2023254.12	1316606.95
126+20	2023299.83	1316295.93
130+00	2023676.03	1316346.64



SHEET 10 OF 14	WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE 1		
	WATER LINE "W-1" - STA. 116+00 TO STA. 130+00		
REVISIONS	FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY		
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	DESIGNED SBC DRAWN RSS CHECKED JGD
	DATE JUNE 2015		

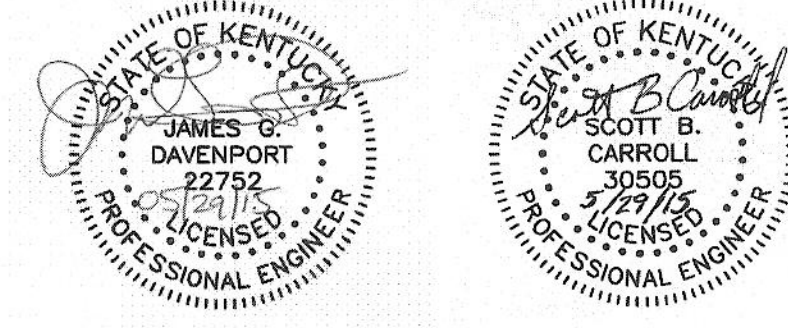


16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)



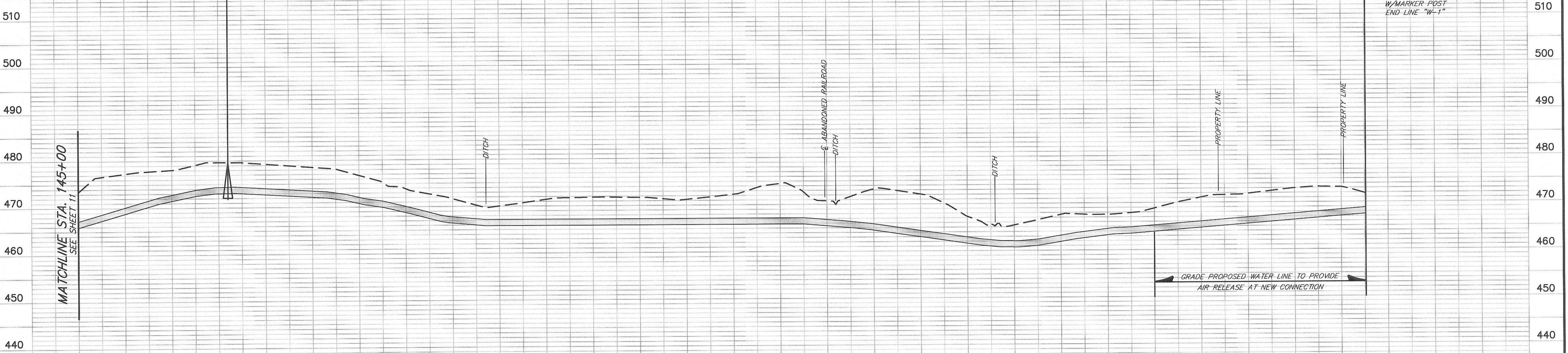
- CONSTRUCTION NOTES:**
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 - ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.

STA.	NORTHING	EASTING
135+00	2024172.91	1316402.44
142+61	2024940.46	1316505.13
145+00	2024968.45	1316281.34



SHEET 11 OF 14		WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
REVISIONS		WATER LINE "W-1" - STA. 130+00 TO STA. 145+00	
APPROVED		FOR OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY	
SCALE 1"=50' HOR. 1"=10' VER.		J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	
DATE JUNE 2015		DESIGNED SBC	
		DRAWN RSS	
		CHECKED JGD	

CONNECTION NO. 3
 STA. 158+76± LINE "W-1"
 INSTALL
 1-16"x12" REDUCER W/THRUST BLOCK
 1-12" TAPPING SLEEVE,
 VALVE ASSEMBLY & KICKER
 W/MARKER POST
 END LINE "W-1"



16-INCH WATER TRANSMISSION LINE
 48-INCH MINIMUM COVER IN KYTC R.O.W.
 36-INCH MINIMUM COVER (NOTE 2)

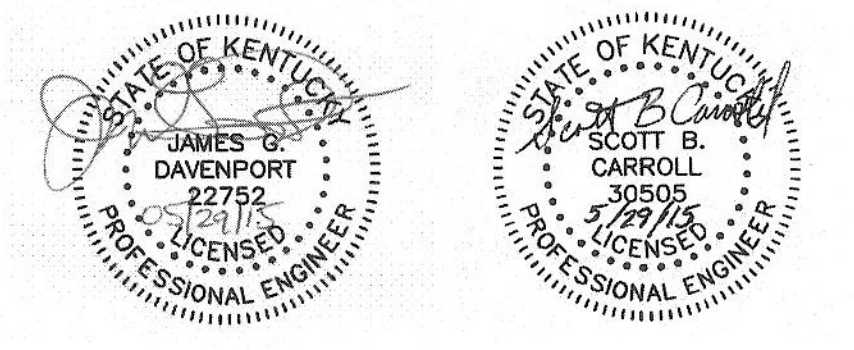
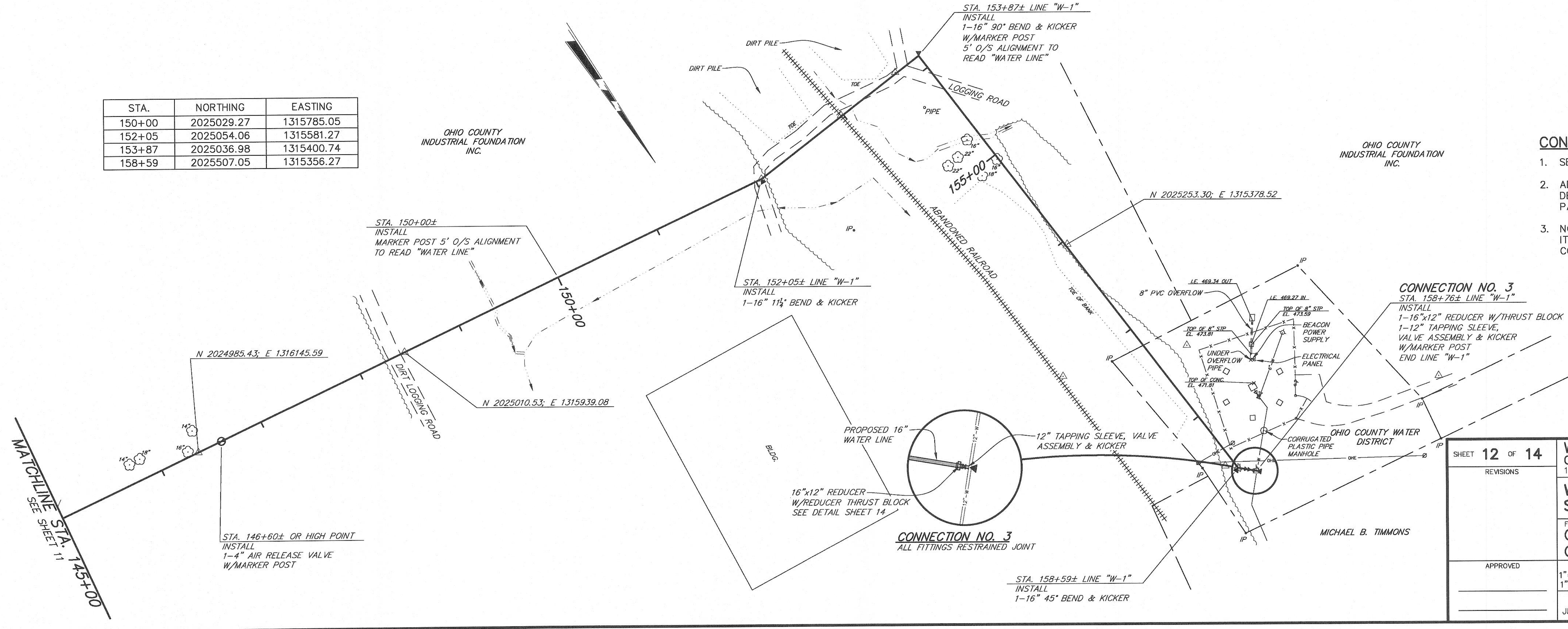
145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00 159+00

STA.	NORTHING	EASTING
150+00	2025029.27	1315785.05
152+05	2025054.06	1315581.27
153+87	2025036.98	1315400.74
158+59	2025507.05	1315356.27

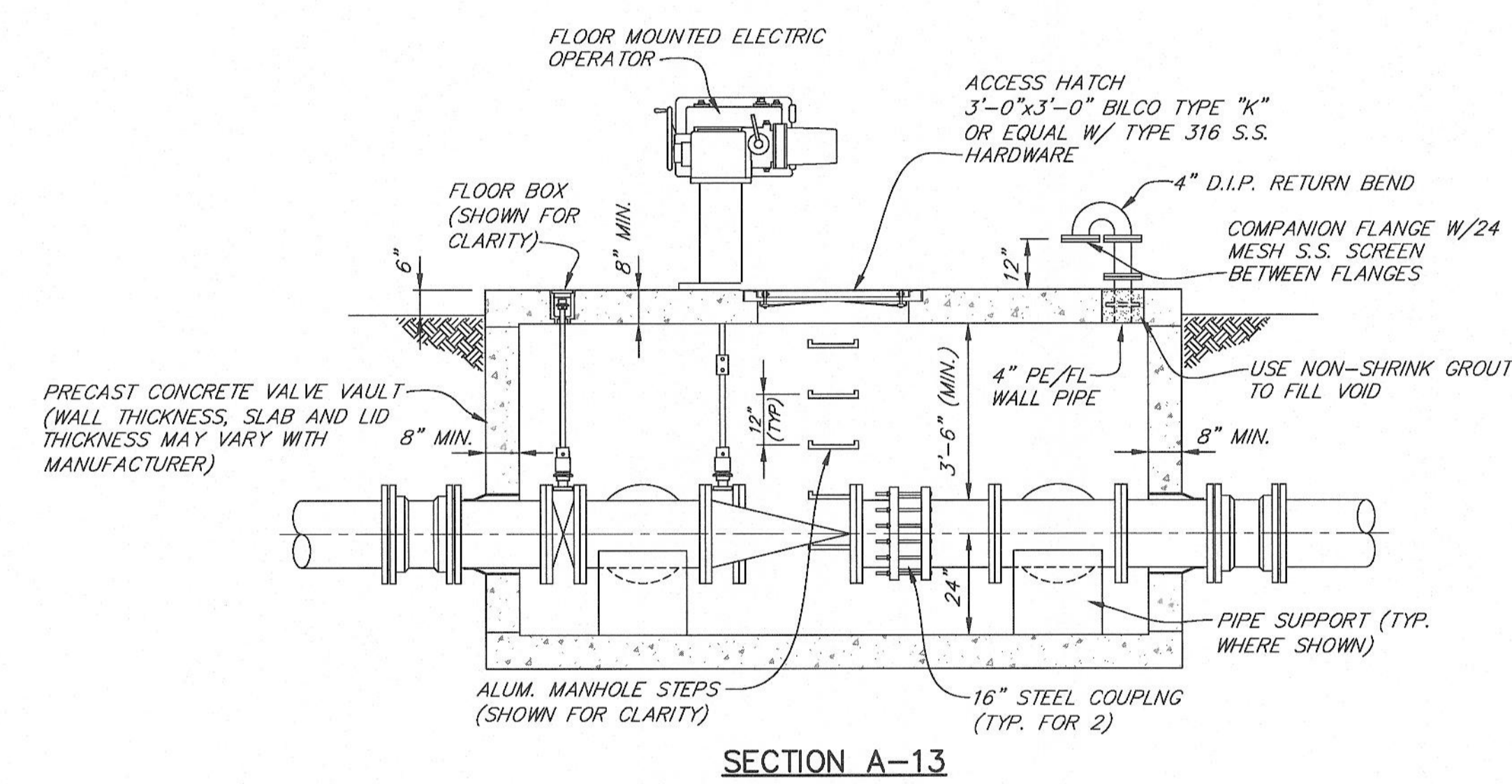
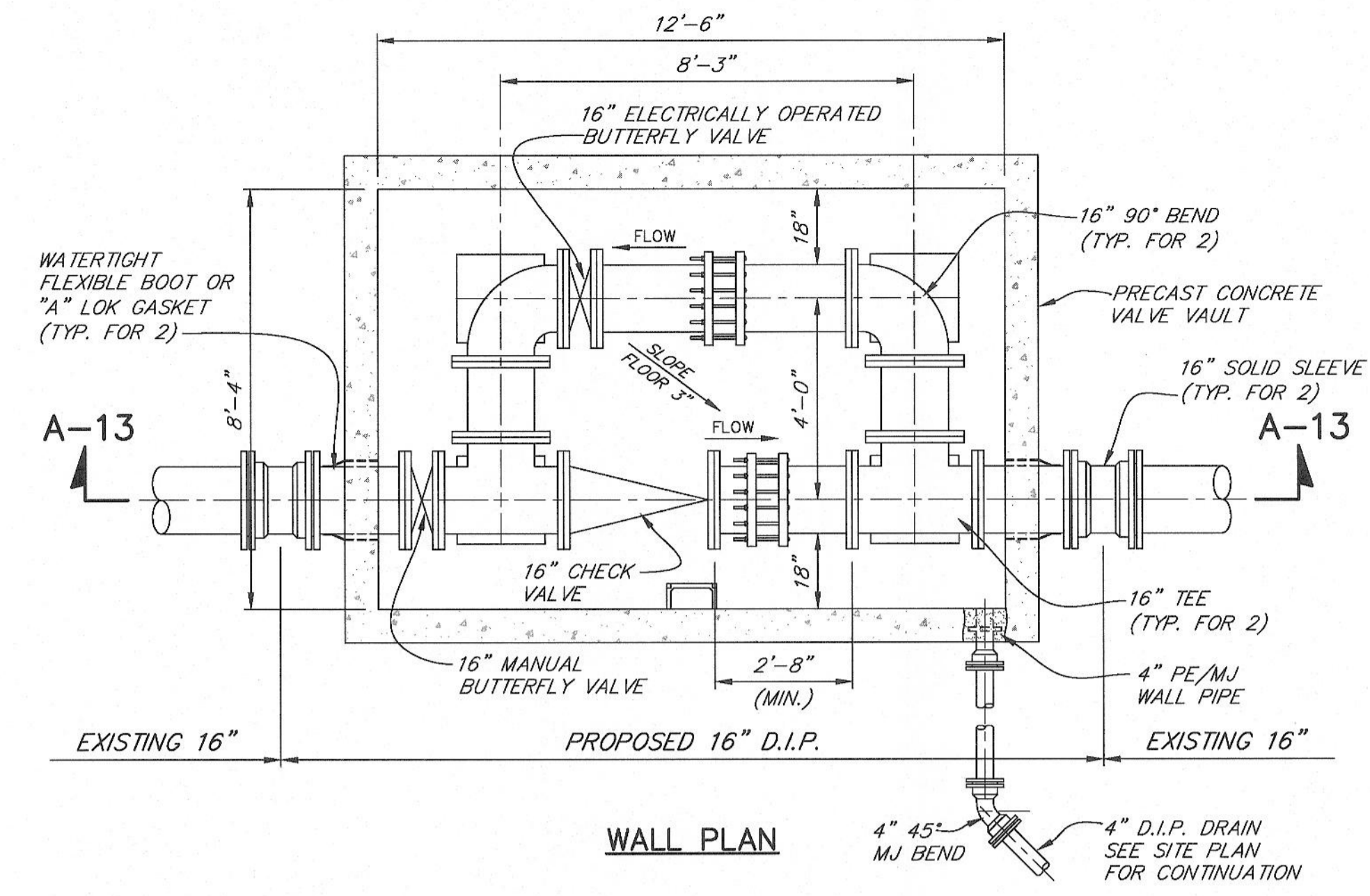
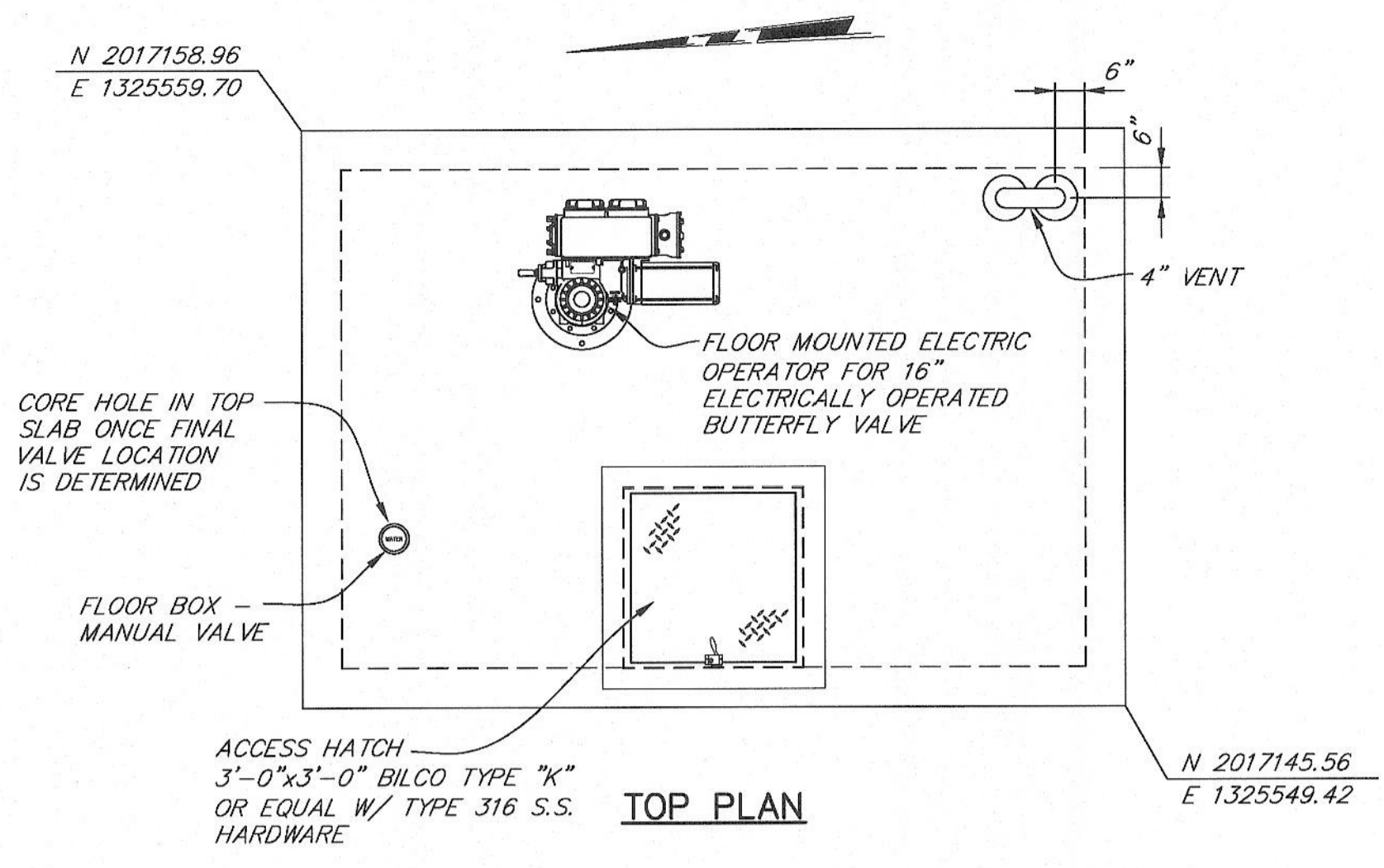
OHIO COUNTY INDUSTRIAL FOUNDATION INC.

OHIO COUNTY INDUSTRIAL FOUNDATION INC.

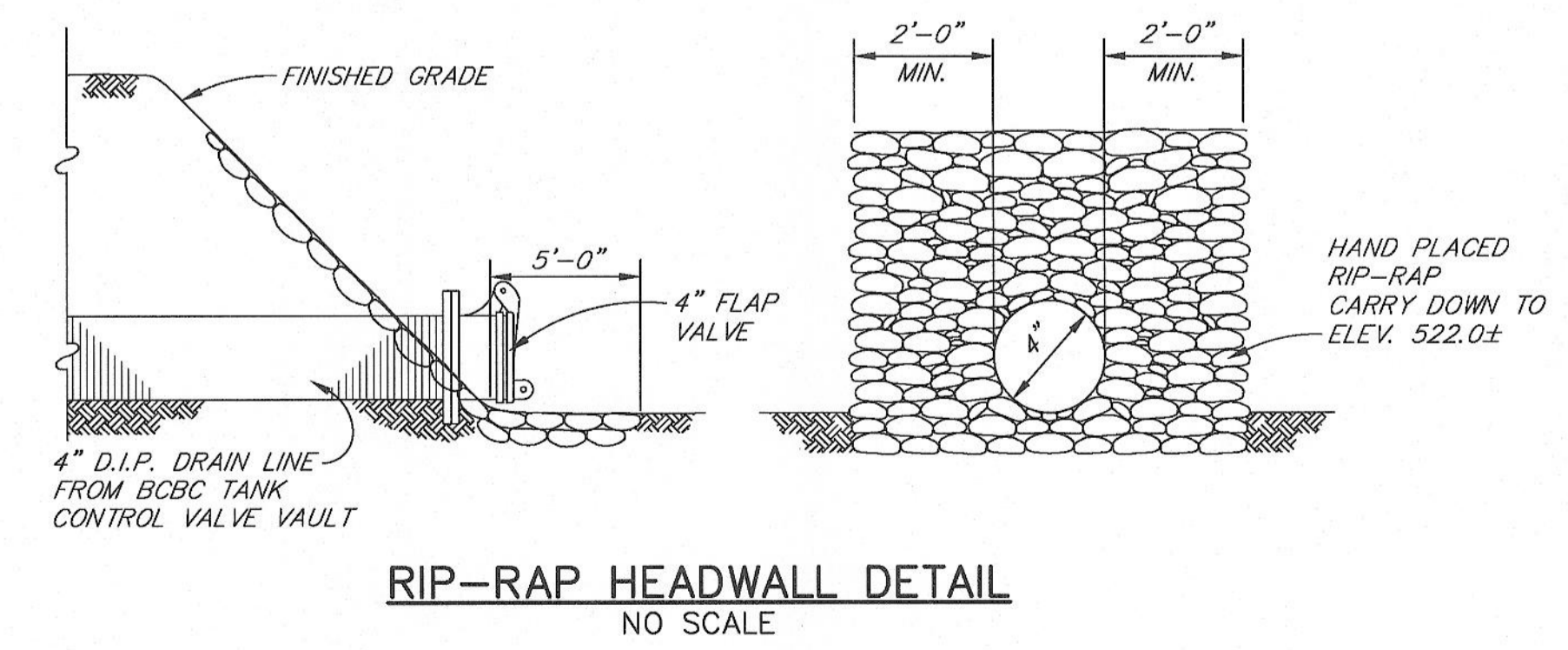
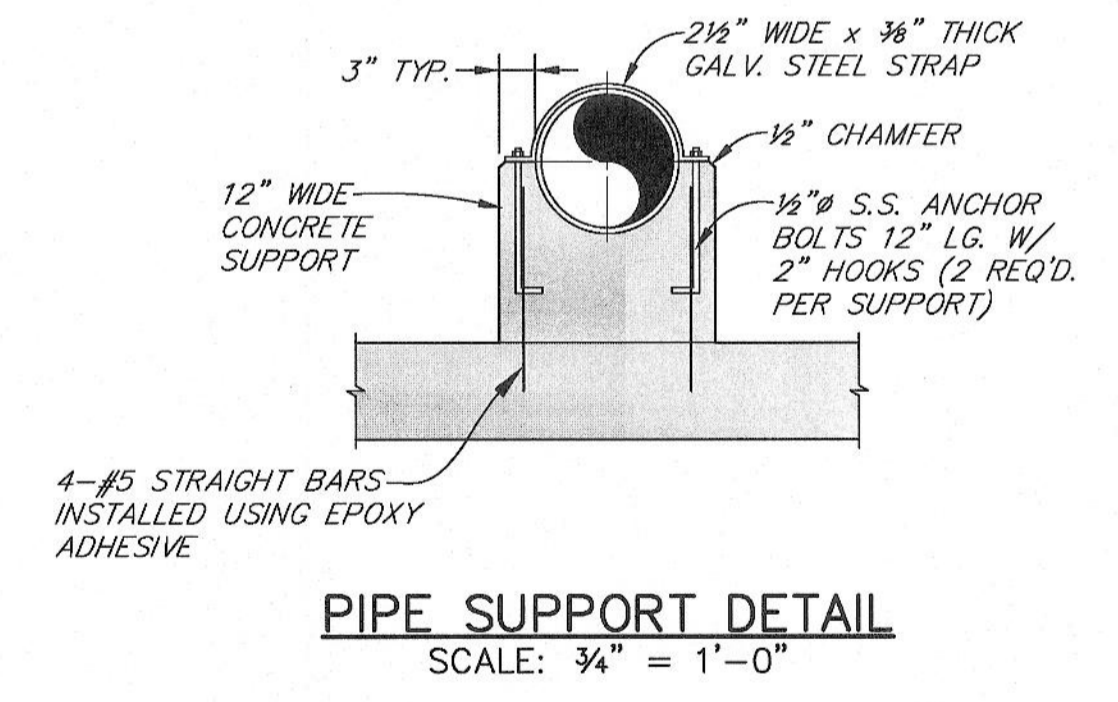
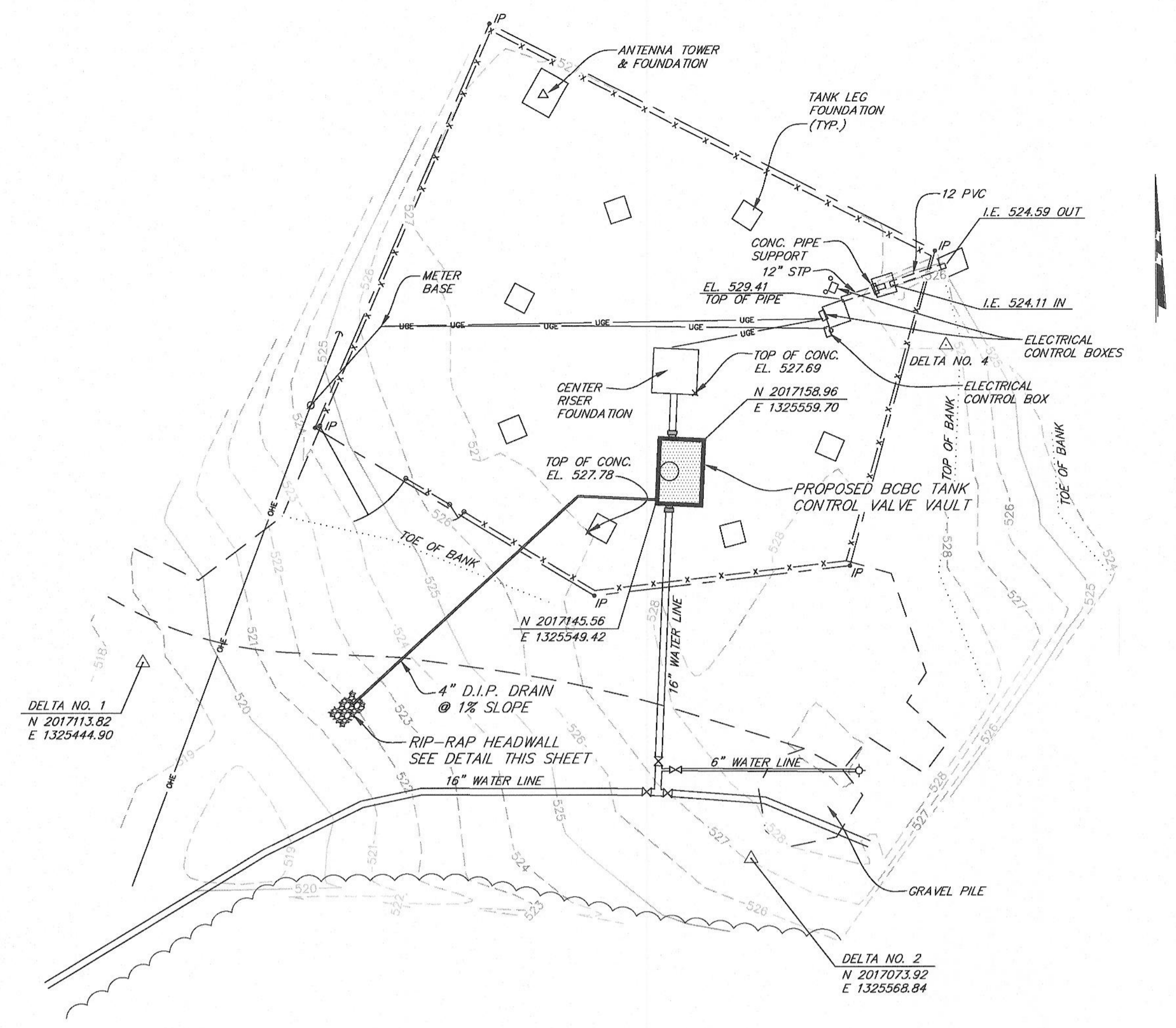
- CONSTRUCTION NOTES:**
- SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
 - ADDITIONAL DEPTH OF CUT BELOW 36-INCHES DEPICTED ON THESE PLANS IS NOT A SEPARATE PAY ITEM.
 - NO UNIT PRICE PAYMENT WILL BE MADE FOR ITEMS INCLUDED IN THE LUMP SUM PRICE FOR CONNECTION NO. 3.



SHEET 12 OF 14		WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
REVISIONS		WATER LINE "W-1" - STA. 145+00 TO E.O.L.	
FOR		OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY	
APPROVED	SCALE 1"=50' HOR. 1"=10' VER.	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE	DESIGNED SBC
	DATE JUNE 2015		DRAWN RSS
			CHECKED JGD
			JOB NO. 2021

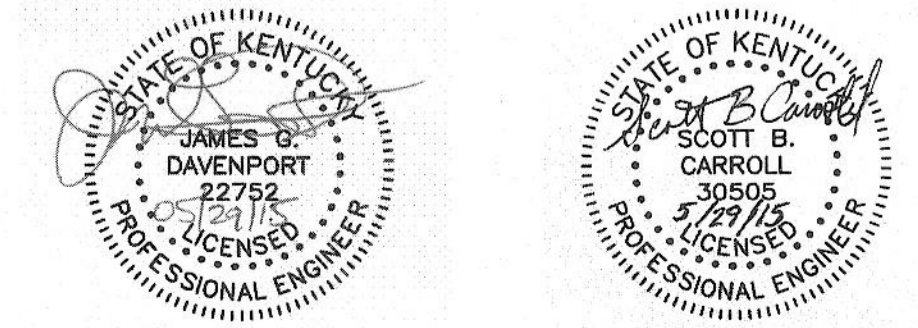


BCBC TANK CONTROL VALVE VAULT
SCALE: 3/8" = 1'-0"

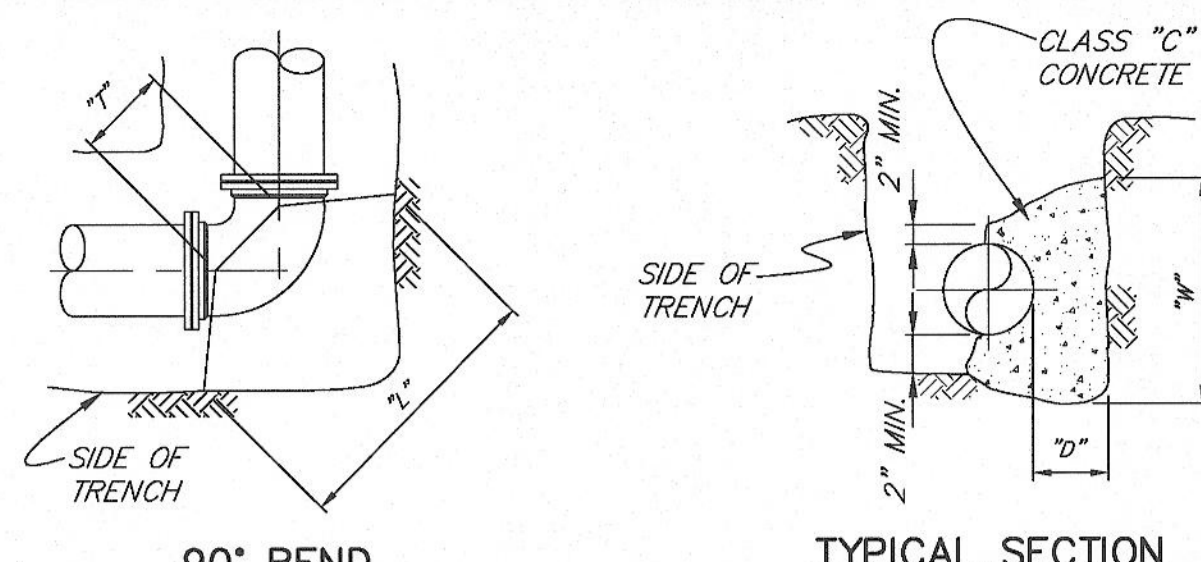


CONSTRUCTION NOTES:

- SEE "GENERAL NOTES" AND "LEGEND", SHEET 1.
- THE CONTRACTOR SHALL POTHOLE THE EXISTING 16-INCH WATER LINE AT THE PROPOSED VALVE STRUCTURE LOCATION TO DETERMINE THE DEPTH PRIOR TO ORDERING THE PRECAST VAULT.
- DURING SITE EXCAVATION, THE CONTRACTOR SHALL BE CAREFUL NOT TO DISTURB THE EXISTING TANK FOUNDATION.
- THE BCBC TANK WAS BUILT BY CALDWELL TANKS. AT THE CENTER RISER FOUNDATION IS A DATA PLATE FOR THE TANK THAT INCLUDES THE FOLLOWING DATA:
NO. E-4947
157' TALL TO OVERFLOW
CAPACITY 1 MILLION GALLONS
- THE OWNER SHALL FURNISH TELEMETRY AND ELECTRICAL SERVICE TO THE ELECTRICALLY OPERATED VALVE USING HTI CONTROLS OF HORSE BRANCH KENTUCKY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRIC VALVE OPERATOR WITH HTI.



SHEET 13 OF 14		WATER SYSTEM IMPROVEMENTS CONTRACT 15-01 16-INCH NORTH WATER TRANSMISSION LINE - PHASE I	
REVISIONS		BCBC TANK SITE PLAN AND CONTROL VALVE VAULT	
FOR		OHIO COUNTY WATER DISTRICT OHIO COUNTY, KENTUCKY	
APPROVED	SCALE AS SHOWN	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	DESIGNED SBC
	DATE		DRAWN RSS
	JUNE 2015		CHECKED JCD



SOIL BEARING PRESSURE = 2500 PSF
TEST PSI = 150

90° BEND				
SIZE	8"	10"	12"	16"
D	14	14	16	30
L	36	45	60	92
W	36	45	48	48
T	12	12	12	14

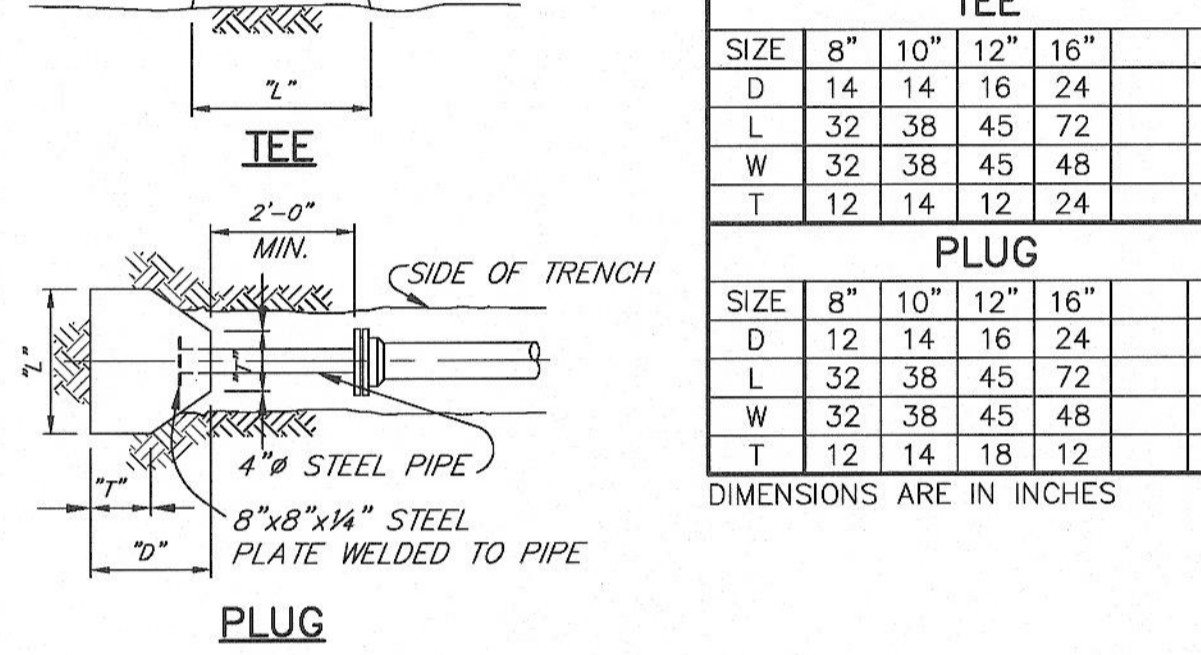
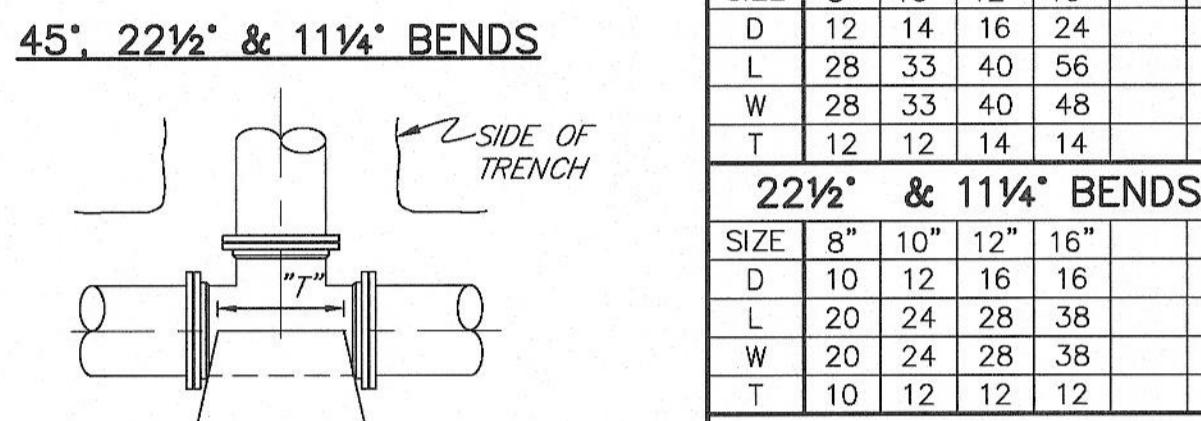
45° BEND				
SIZE	8"	10"	12"	16"
D	12	14	16	24
L	28	33	40	56
W	28	33	40	48
T	12	12	14	14

22½° & 11¼° BENDS				
SIZE	8"	10"	12"	16"
D	10	12	16	16
L	20	24	28	38
W	20	24	28	38
T	10	12	12	12

TEE				
SIZE	8"	10"	12"	16"
D	14	14	16	24
L	32	38	45	72
W	32	38	45	48
T	12	14	12	24

PLUG				
SIZE	8"	10"	12"	16"
D	12	14	16	24
L	32	38	45	72
W	32	38	45	48
T	12	14	18	12

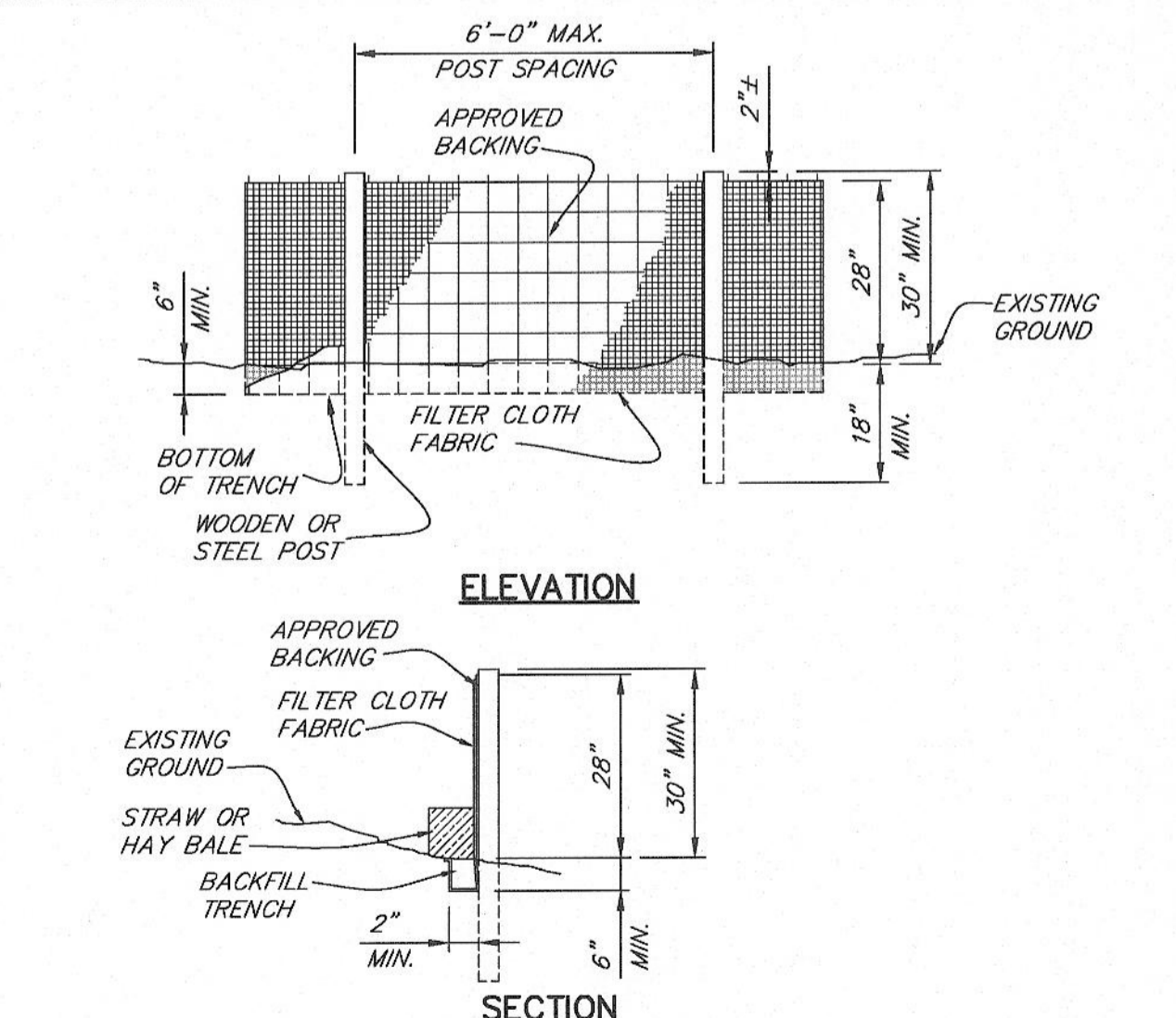
DIMENSIONS ARE IN INCHES



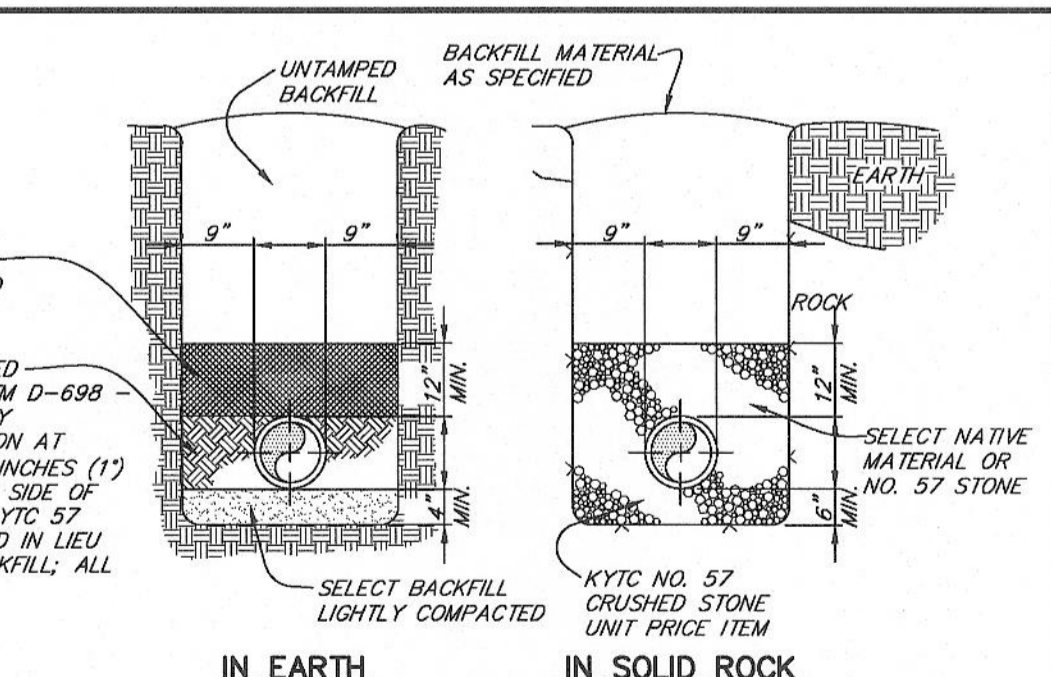
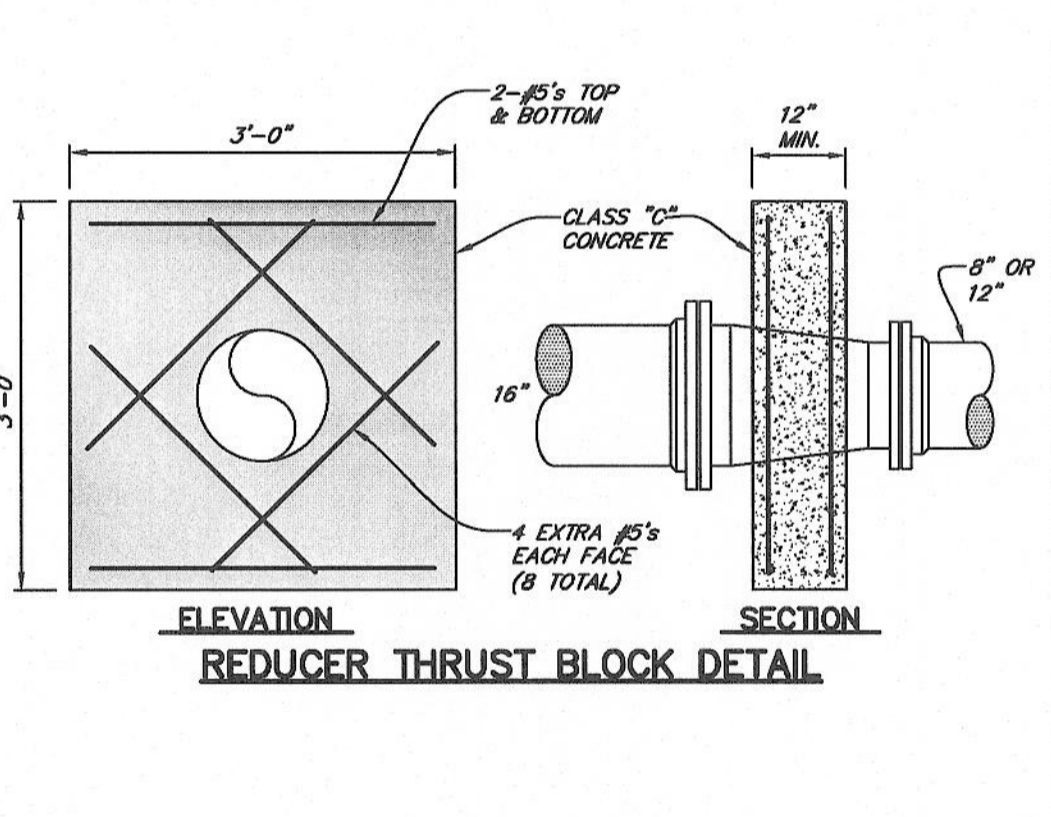
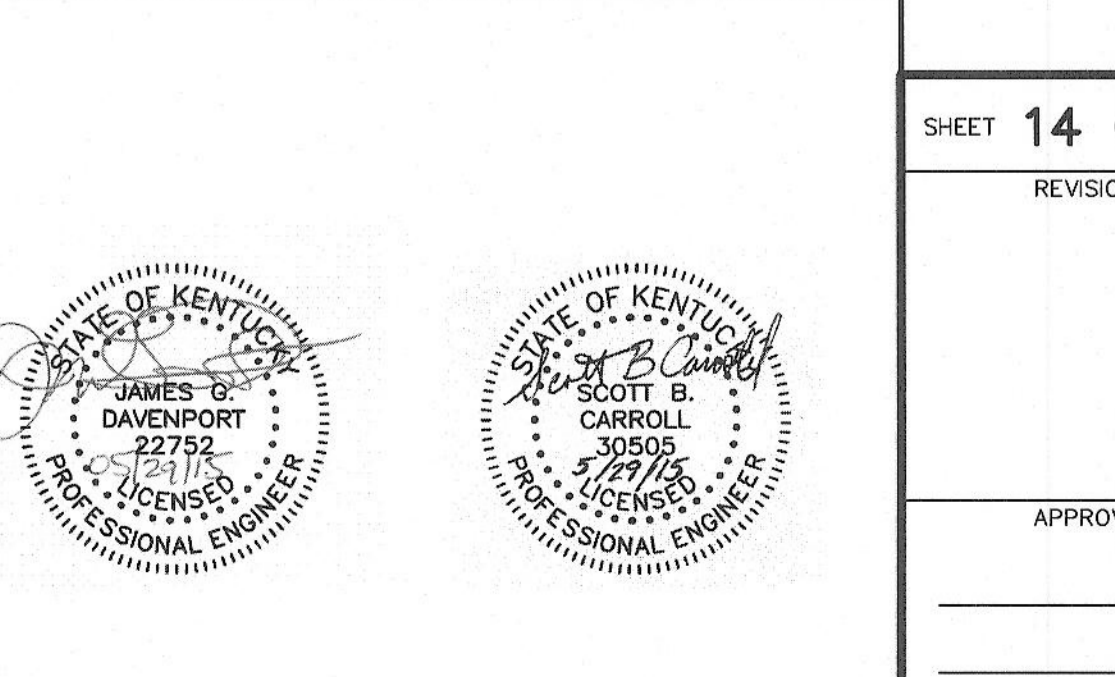
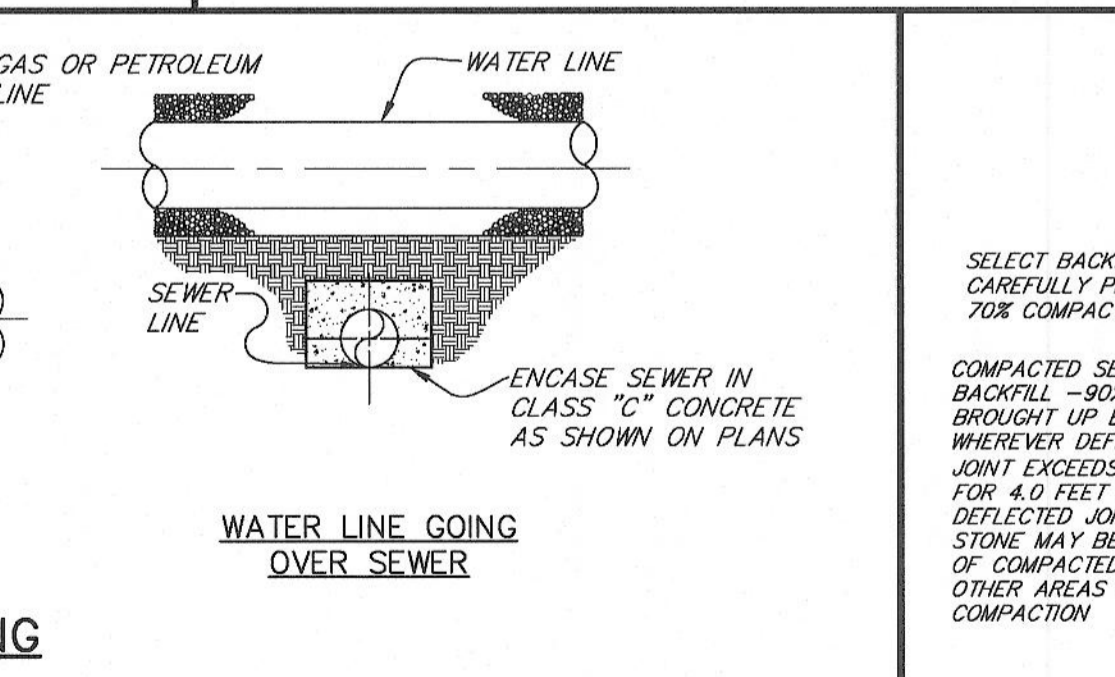
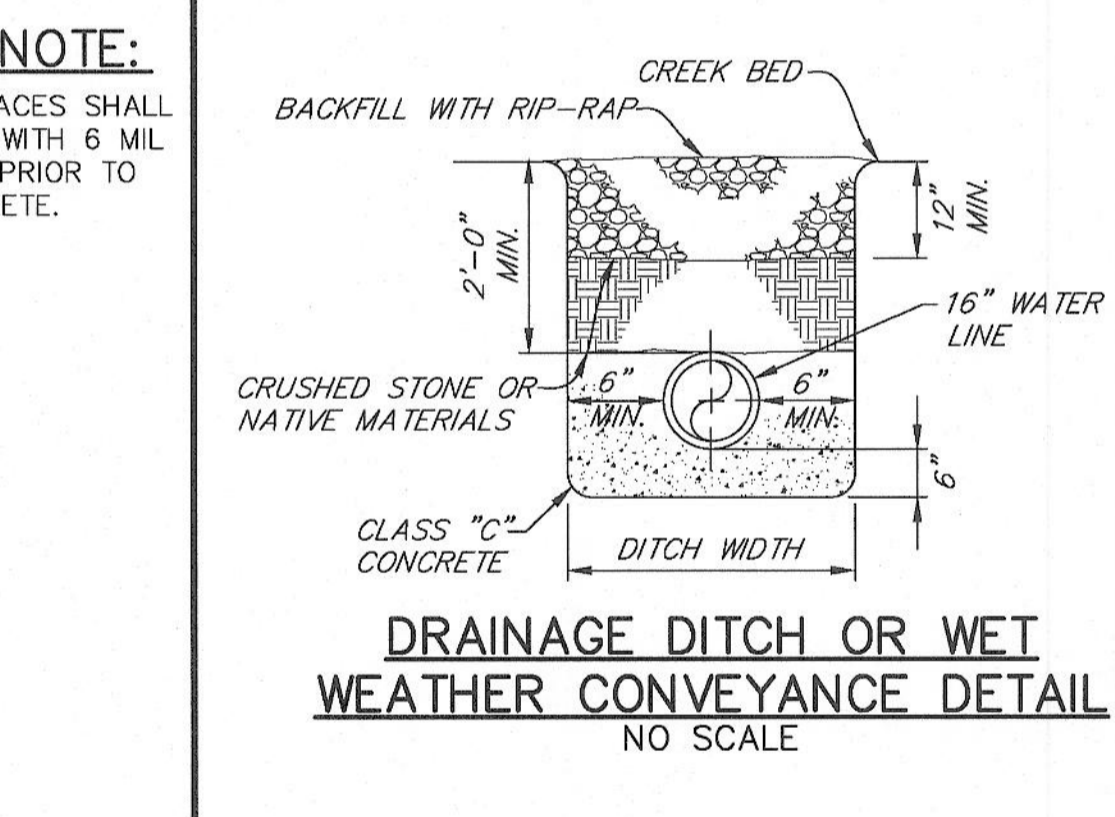
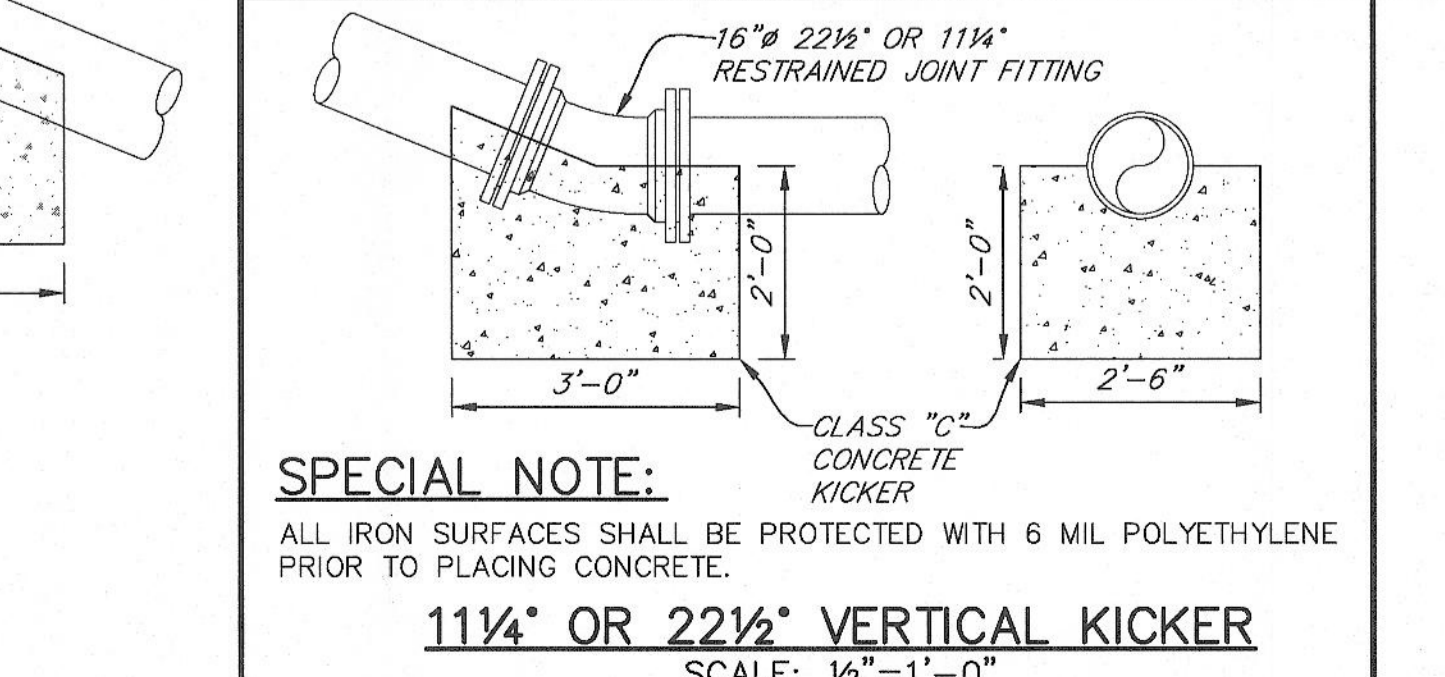
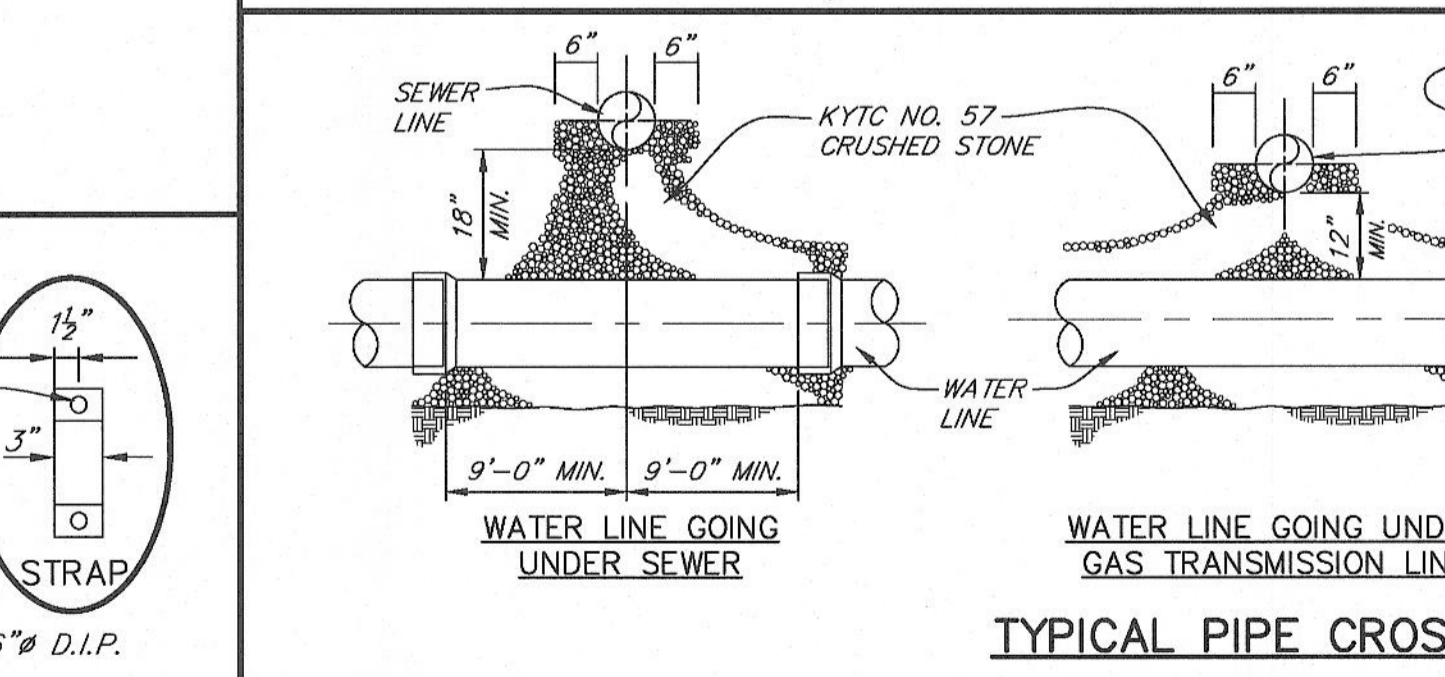
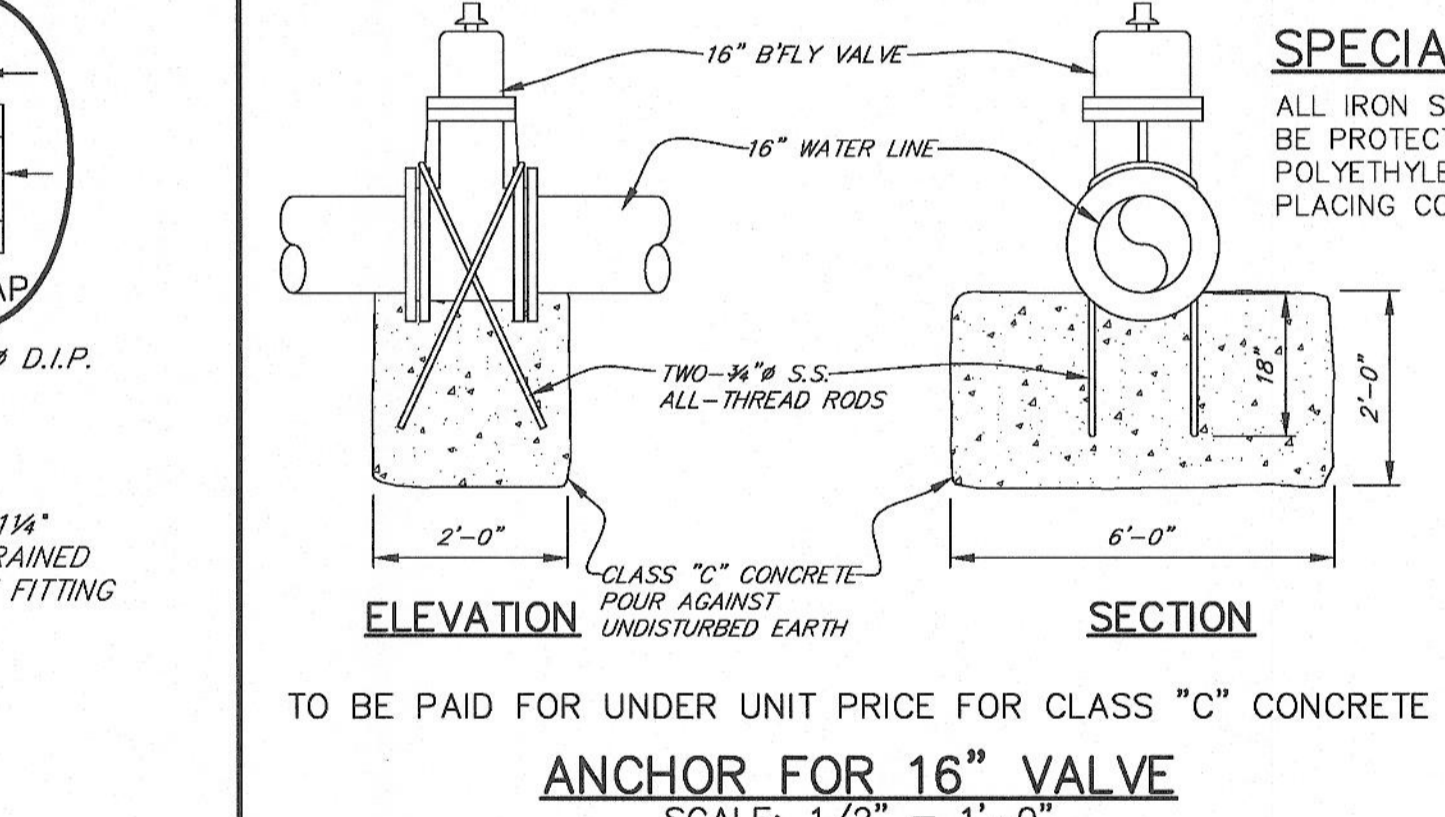
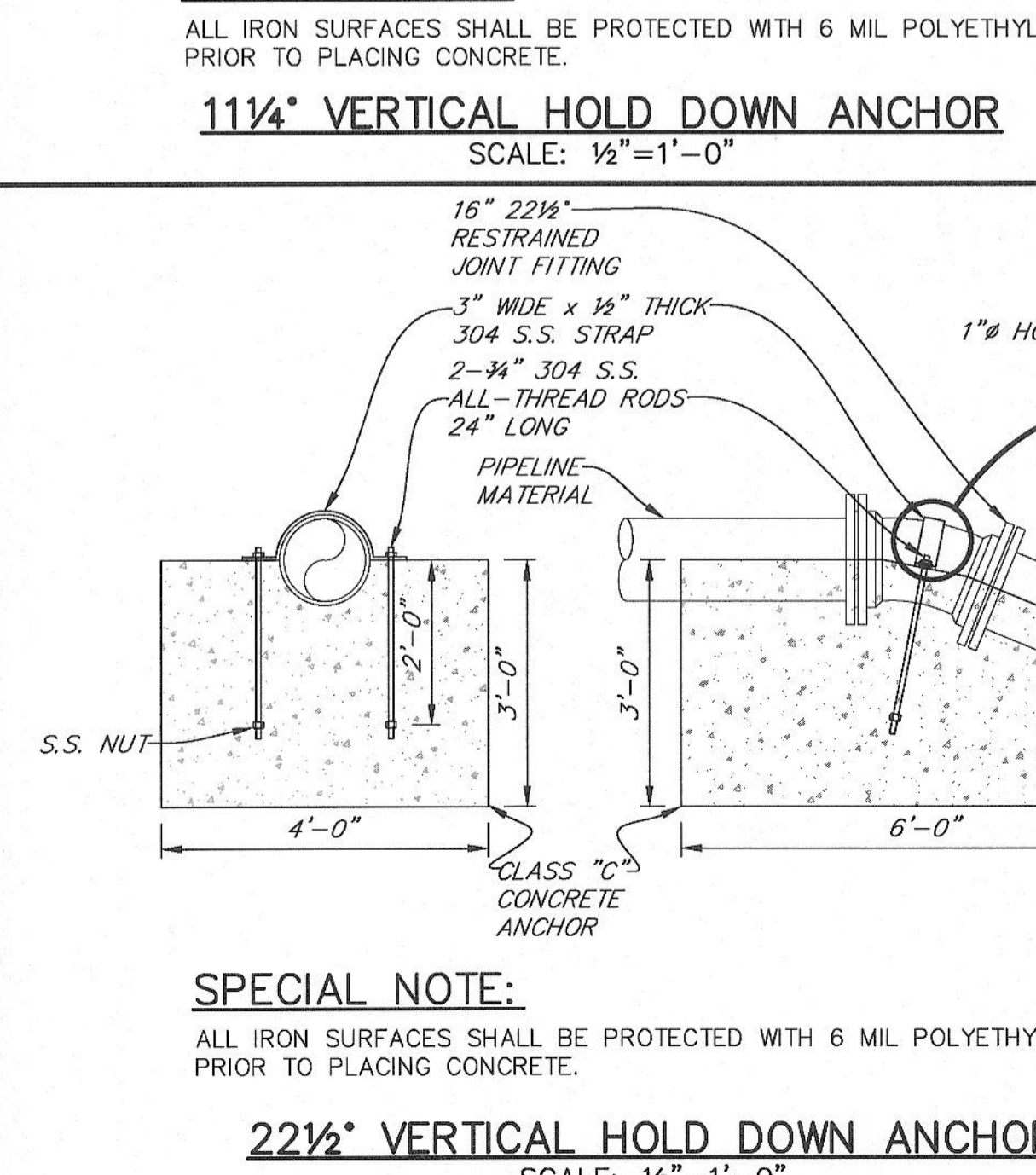
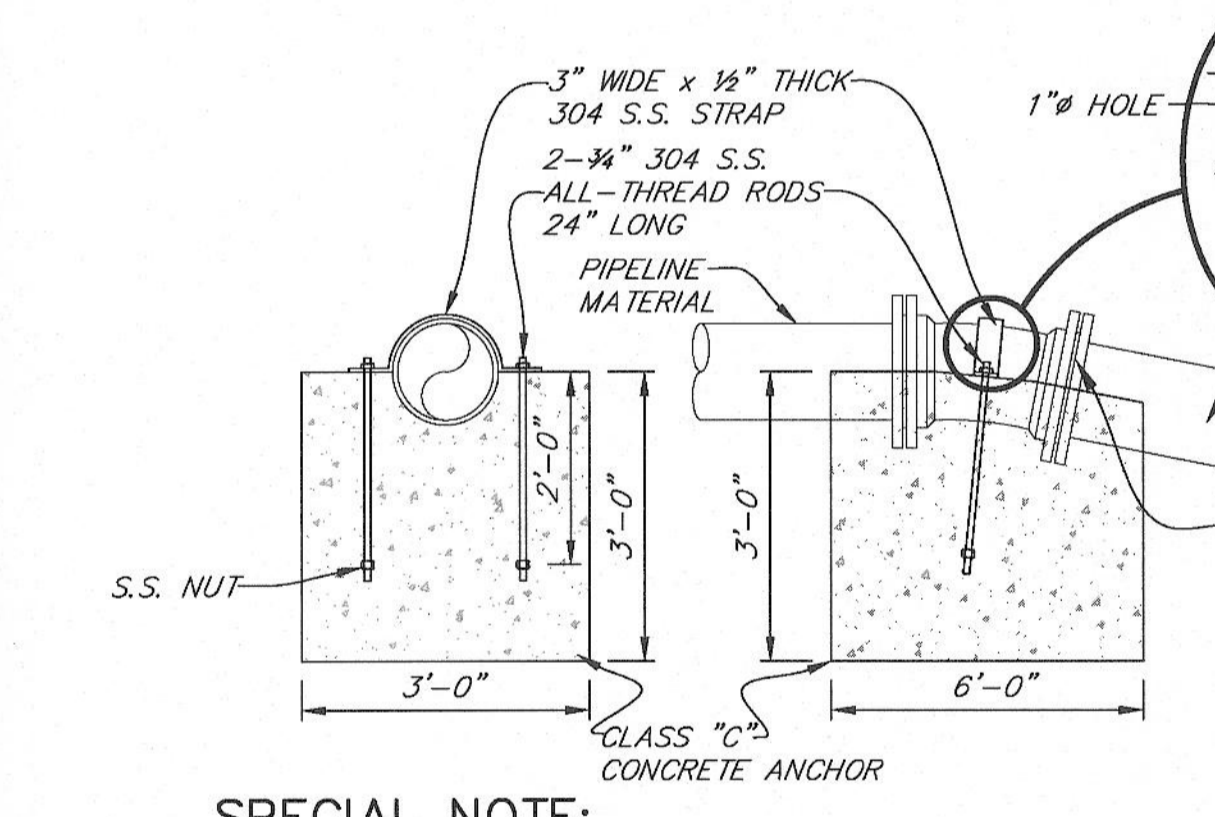
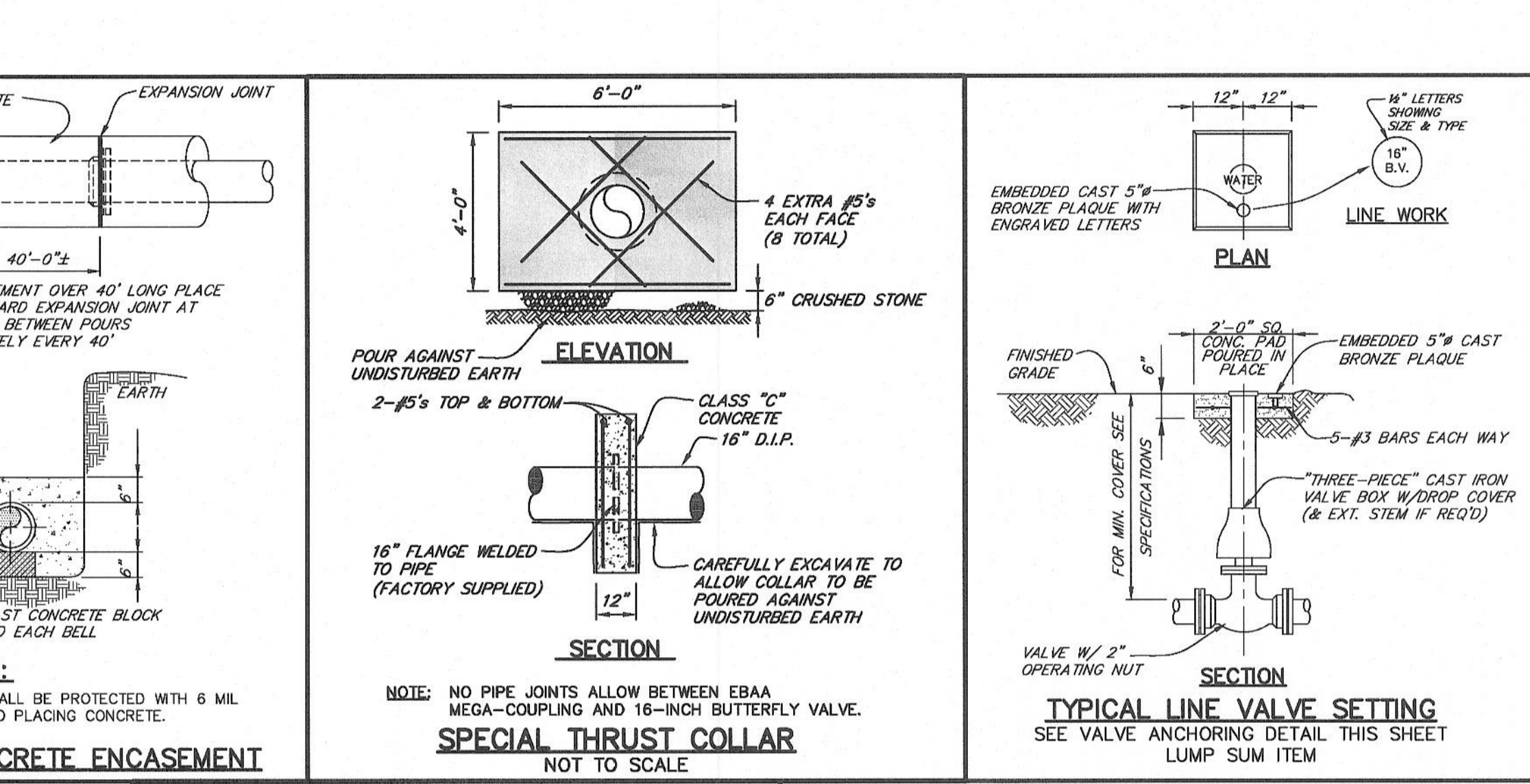
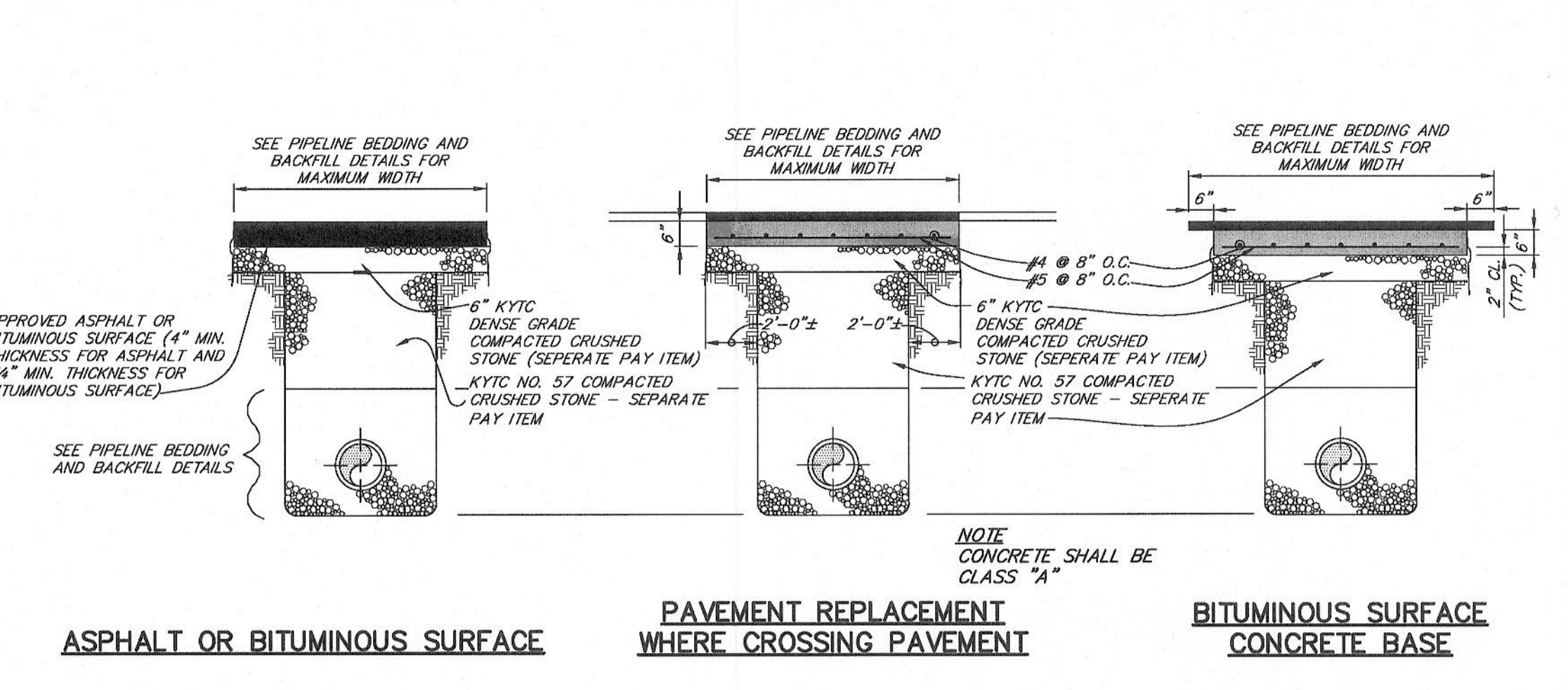
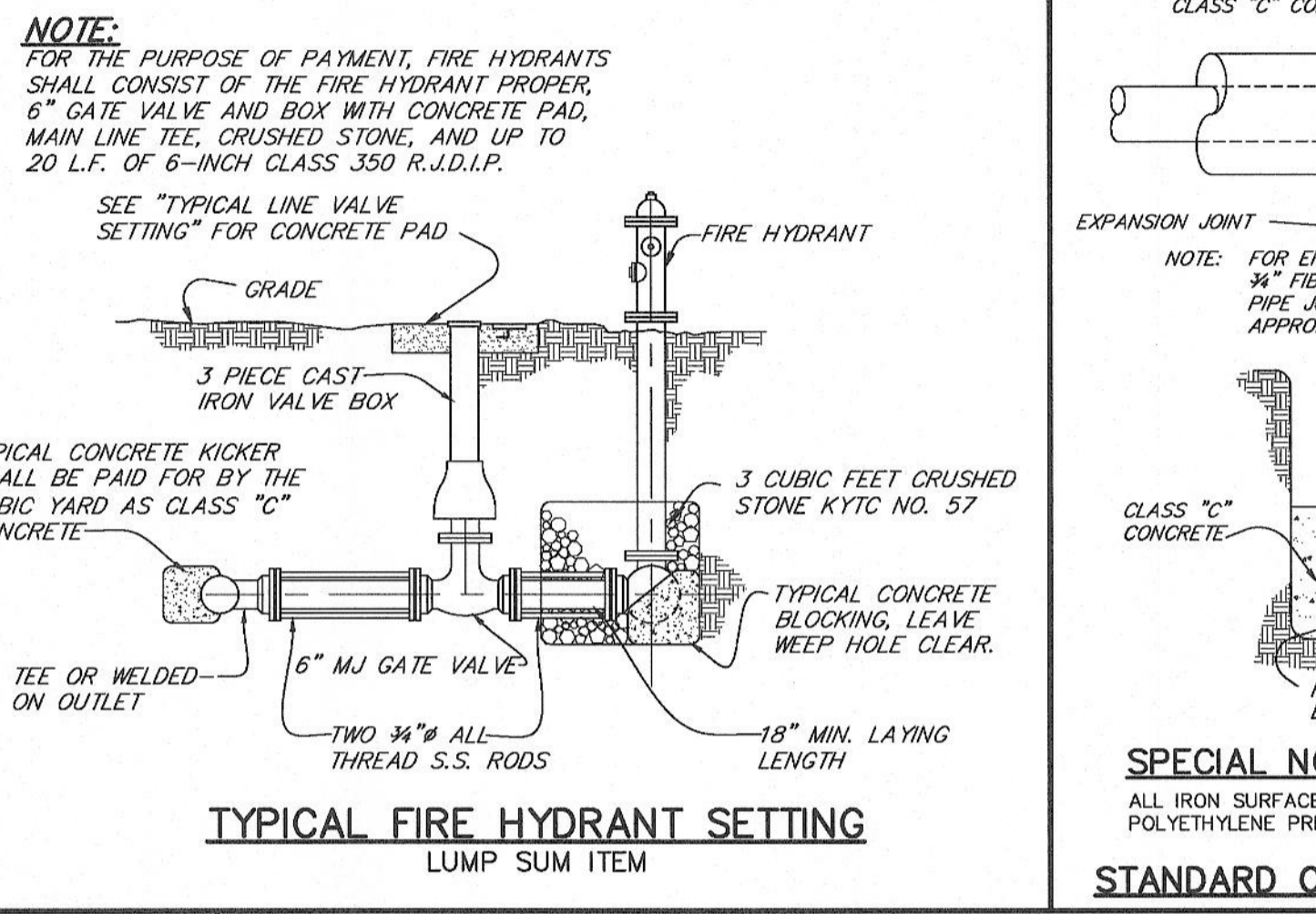
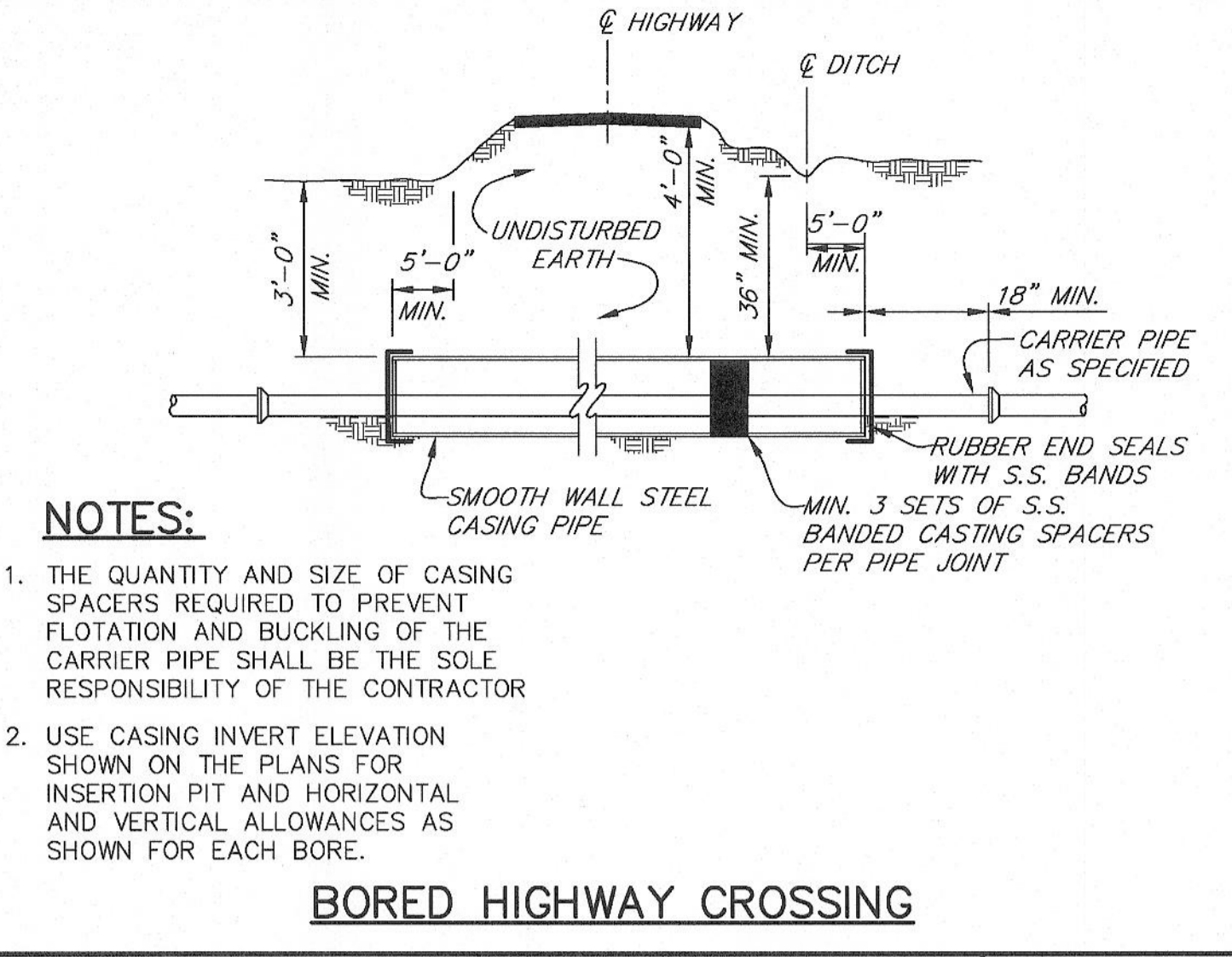
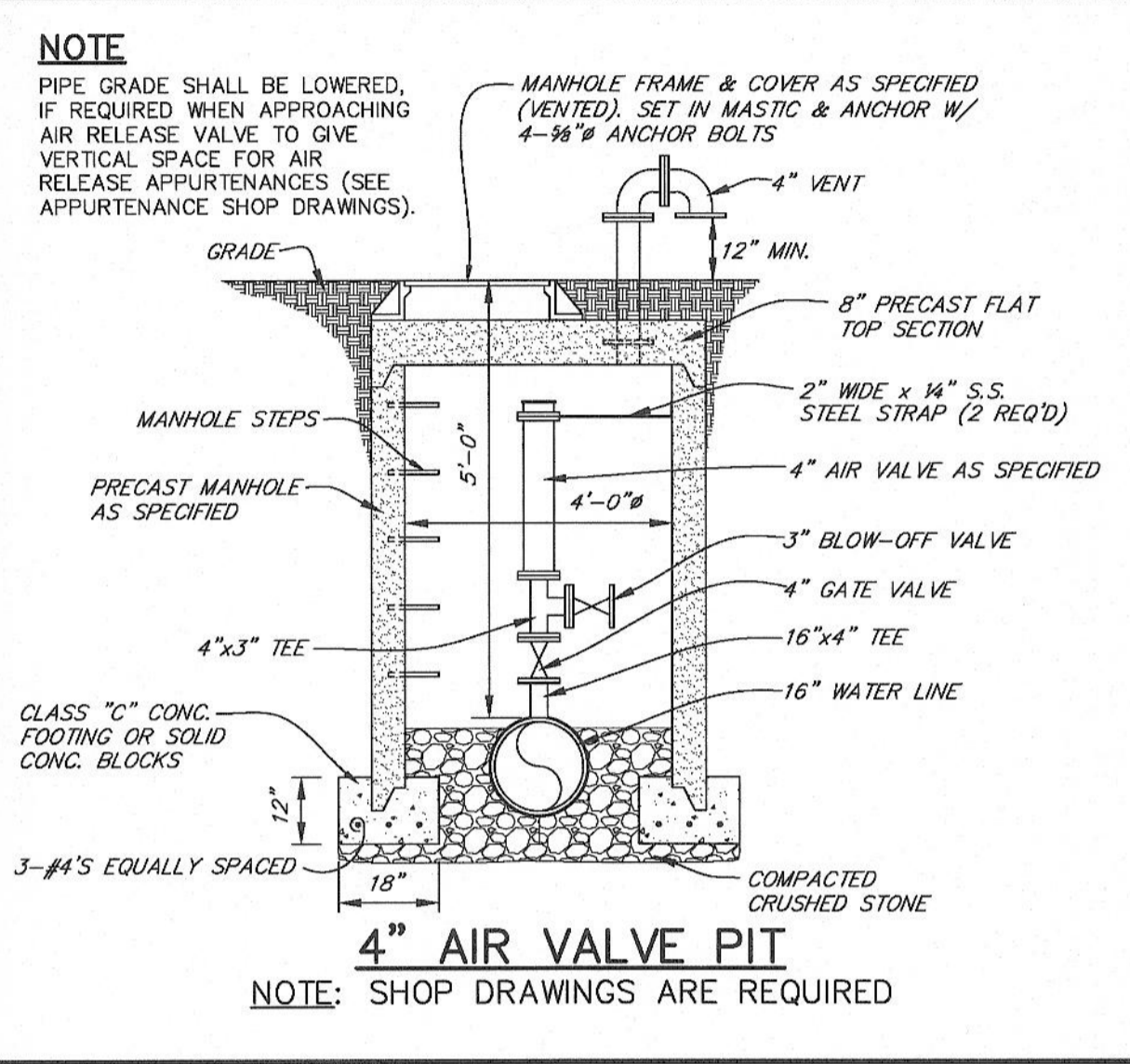
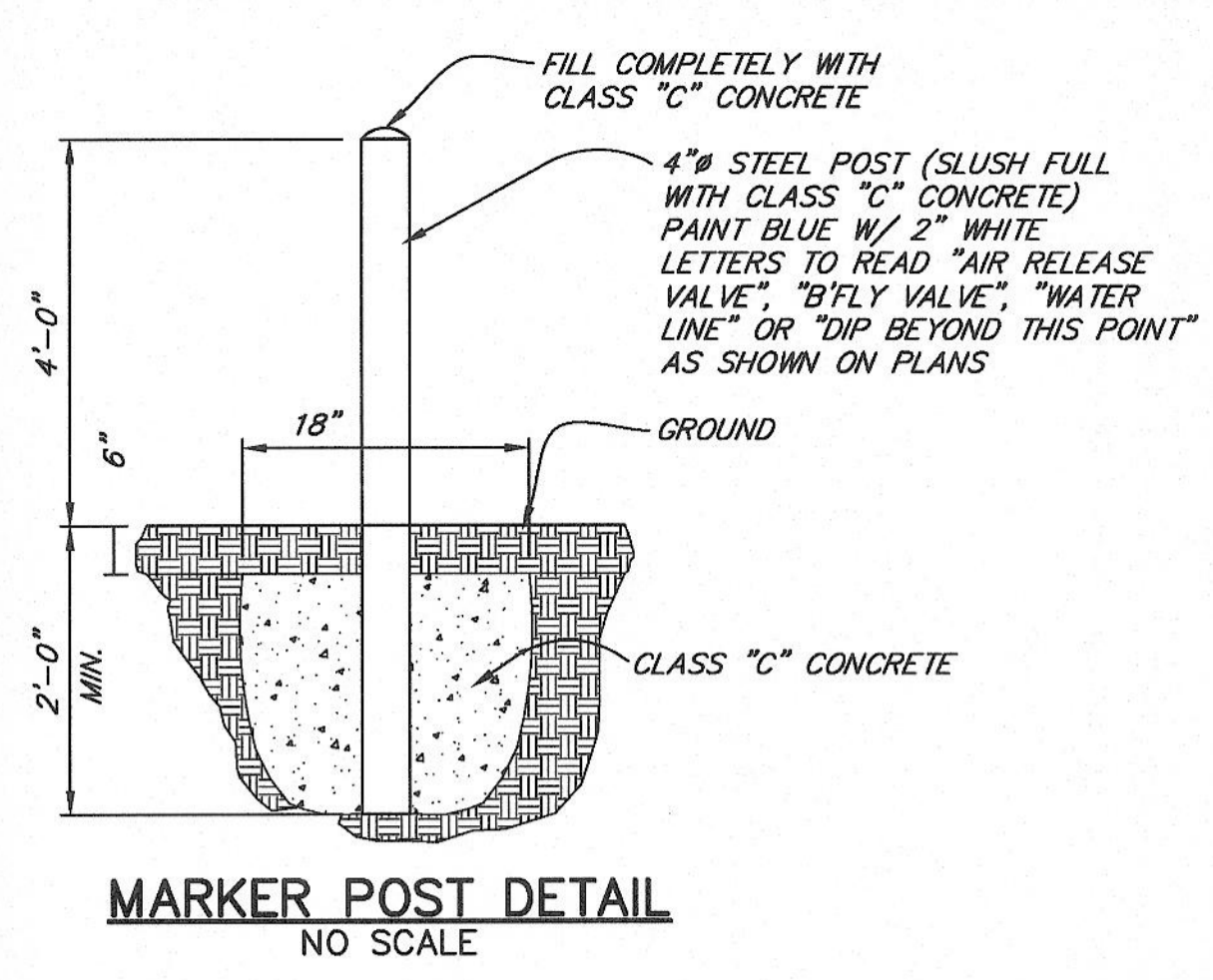
- SPECIAL NOTES:**
- ALL FITTINGS SHALL BE MECHANICAL JOINT W/ MEGA-LUG RETAINER GLAND.
 - ALL IRON SURFACES SHALL BE PROTECTED WITH 6 MIL POLYETHYLENE PRIOR TO PLACING CONCRETE.

- NOTES:**
- FOR TEE WITH BRANCH UNEQUAL TO RUN, USE TEE TYPE KICKER WITH D, L & W DIMENSIONS THE SAME AS THOSE FOR PLUG WITH SAME DIMENSIONS AS BRANCH OF TEE, SELECT T DIMENSION FROM TEE TABLE UNDER COLUMN HEADED BY THE SIZE OF THE BRANCH.
 - IF EXACT SIZE OF PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE
 - DIMENSION D MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. CONCRETE BLOCKING MUST BE POURED AGAINST UNDISTURBED EARTH.

CONCRETE BLOCKING FOR PIPE (KICKERS)



- NOTES:**
- FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.
 - A PREASSEMBLED SILT FENCE MEETING THE REQUIREMENTS OF THIS DRAWING IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE
 - SEE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- STANDARD TEMPORARY SILT FENCE**



SHEET 14 OF 14

REVISIONS

WATER SYSTEM IMPROVEMENTS CONTRACT 15-01
16-INCH NORTH WATER TRANSMISSION LINE - PHASE I

DETAIL SHEET

FOR
OHIO COUNTY WATER DISTRICT
OHIO COUNTY, KENTUCKY

APPROVED	SCALE AS SHOWN	J. R. WAUFORD & CO. CONSULTING ENGINEERS, INC. NASHVILLE, TENNESSEE JOB NO. 2021	DESIGNED SBC
	DATE		DRAWN RSS
	JUNE 2015		CHECKED JCD