WATER SYSTEM IMPROVEMENTS CONTRACT 1 - WATER MAIN IMPROVEMENTS FOR THE

CHAIRMAN

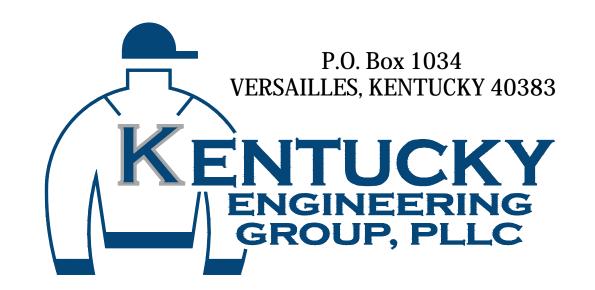
ARTIE GIBSON

WATER SUPERVISOR

CHAD LINKOUS

PROJECT NO. 19002

LEVEE ROAD WATER ASSOCIATION MONTGOMERY COUNTY, KENTUCKY AUGUST 2020



BOARD MEMBERS

BRENDA MURPHY RUSTY DUNN BEVERLY CARPENTER BILLY BARNETT



BID DOCUMENTS

 CC ST Th OF EXU DU PF RH AI AN BF SH AI AI AI AI AI AI AI AI AI 	CUNNING CONSTRUCTION. NITRACTOR SHALL BE, RESPONSIBLE FOR MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH CITY, COUNTY AN 'ATE REQUIREMENTS. ECONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PI 'CONSTRUCTION. CISTINE UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, CITLE IRON PIDE FITTINGS, CATE VALVES, AND/OR DOSE LIAD WITHIN 100 OF LINES WITH CATHODIC COTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT. MATERIALS AND INSTALLATION SHALL MEH QUIREMENTS OF AWWAS LATEST REVISION. L CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH IT IF PL YOUNG SUBJECTIVITIONS SUBSTITUTIONS AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL EXENTSUED BY THE ENGINEER. IOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIO STALLATION. CISTING UTILITIES AND OFTRACTOR SHALL DE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIO STALLATION. CISTING UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND A PREVAITOR AND THE INFORMATION OF MATERIALS BOLD OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND A PREVAING OF THILTIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKIN CAR EXISTING UTILITIES. THE CONTRACTOR SHALL OFTRACTOR SHALL ASSUME ALL RESPONSIE PREVAING OF UTILITIES. THE CONTRACTOR SHOWN IN THE CONTRACTOR SHALL ASSUME ALL RESPONSIE PREVAING OF UTILITIES. HECONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND A THER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIES IN REPAIRS OF UTILITIES. AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION. SUESS OTHERWISE NOTED. A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR PITINGS. THE FITTINGS CLUDED BUT NOT I MINED TO A REF. FERS. READS, PLUCS, REDUCERS, CROSSES, COUPLINGS, ETC. CONTRACTORS IALL INCLUDE THE COST OF THESE FIEMS IN THE BID PICE HOR NOT REPERED CONSTRUCTION. SUESS OTHERWISES, SUPPORTED IN THE BID PICE HOR AND VERS A
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FII & J	
& . A7	LL VALVES & HYDRANTS SHALL BE LOCATED AT THE BACKSIDE OF THE DITCHLINE.
	NAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTR APPROVED BY THE ENGINEER.
51	F THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUSTITUTED FOR ANY PIPE PARTICULAR PECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
	O PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE DDITIONAL DEPTH IN HIS BID PRICE.
RC	OCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER, THE CONTRACTOR SHALL TAKE APPROPRIATE AC
CC	ONTRACTOR TO DIG/EXPOSE EXISTING WATER MAIN FAR ENOUGH AHEAD OF NEW WATER MAIN CONSTRUCTI VOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING CUSTOMER SERVICES.
	LL NEW SERVICE LINE FROM THE NEW MAIN TO THE SETTERS SHALL BE CLASS 250 3/4" PE CTS TUBING UNLES IOWN DIFFERENTLY ON THE PLANS
	HE MAXIMUM ALLOWABLE LENGTH OF SERVICE LINE FROM THE WATER MAIN TO THE CUSTOMER'S METER SE IALL BE AS FOLLOWS:
51	SERVICE LINE DIAMETER MAXIMUM LENGTH
	3/4 INCH 100 FEET 1 INCH 150 FEET 1-1/2 INCH 200 FEET
	2 INCH 250 FEET
CC	ONNECTIONS TO EXISTING DISTRIBUTION SYSTEM SHALL BE MADE AS FOLLOWS: A. CONNECT TO EXISTING (SIZE) W.M. (WET TAP) - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL
	FITTINGS, VALVES AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING V MAIN UNDER PRESSURE.
	B. CONNECT TO EXISTING (SIZE) W.M CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTING APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN. VALVES A SEPARATE PAY ITEM.
	O BLASTING WILL BE PERMITTED ON THIS PROJECT
	RIP RINGS SHALL BE INSTALLED ON ALL FITTINGS
	DNTRACTOR SHALL FREEBORE ALL BITUMINOUS AND/OR CONCRETE DRIVEWAYS AND INCLUDE IN THE BID PF
FC	DR THE PIPE.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

NO.	DATE	REVISIONS	

GENERAL NOTES (CONTINUED)

- NEW LINE AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN **REPLACED AND RECONNECTED TO THE NEW LINE**
- NO METERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND SAMPLING HAS BEEN SUCCESSFULLY COMPLETED
- COPIES OF ALL BACTIE RESULTS MUST BE PROVIDED TO THE ENGINEER PRIOR TO RECONNECTS OF ANY METER.
- A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE PLACED IN THE TRENCH SIX INCHES ABOVE ALL PLASTIC LINES. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED INTO ALL VALVE BOXES W/ ENOUGH SLACK TO ALLOW ACCESS TO THE LOOPS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR RECONNECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.

FINAL CLEANUP AND RESTORATION

UNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, CLEANUP OF DISTURBED AREAS SHALL BE KEPT CURRENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO LONGER THAN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED MATERIAL NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS SHALL BE REMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR ADJACENT PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER THE TRENCH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE TRENCH. ALL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

DEPARTMENT OF HIGHWAYS - GENERAL NOTES

- ALL EFFECTED KYTC 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.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- 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 42 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 PERMITTION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC 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.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.

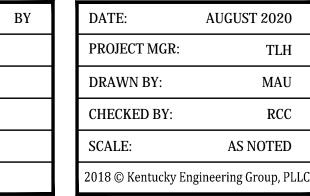
LEGEND

EXISTING	PROPOSED]
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WM	WM	,
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D	DESCRIPTION
	POLYVINYL CHLORIDE
	DUCTILE IRON PIPE
	WATER MAIN
	HYDRANT ASSEMBLY
	FLUSHING/BLOWOFF ASSEMBLY
	AIR RELEASE VALVE (ARV)
	GATE VALVE (GV)
	WATER MAIN (WM)
	SPECIAL CROSSING OR CASING PIPE
	WATER MAIN TO BE ABANDONED
	RIGHT-OF-WAY LINE
	CENTERLINE
	PROPERTY LINE
	EASEMENT ACQUIRED
	AUTOFLUSH HYDRANT
	FLUSHING HYDRANT
	VALVE INSERTION

INDEX OF DRAWINGS

SHT. NO.	DESCRIPTION:
-	COVER
G-01	SHEET LOCATION MAP, INDEX OF DRAWINGS, UTILITIES and LEGEND
C-01C-04	WATER MAIN IMPROVEMENTS 1-22 VARIOUS LOCATIONS
C-05C-06	LEVEE ROAD WATER LINE REPLACEMENT
C-07	DIRECTIONAL DRILLED CREEK CROSSINGS
C-08	FLUSHING HYDRANTS VARIOUS LOCATIONS
C-09	KIDDVILLE PRV STATION, CREAM ALLEY ROAD VAULT, & MASTER METER VAULT
SD-01	STANDARD DETAILS
SD-02	STANDARD DETAILS
SD-03	EROSION AND SEDIMENTATION CONTROL DETAILS





SHEET LOCATION MAP



LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

UTILITIES

BUD - Before You Dig 1-800-752-6007 or DIAL 811

NOTE:

IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

WATER ASSOCIATION

LEVEE ROAD WATER ASSOCIATION PHONE: (859) 498-6980

SHEET LOCATION MAP, LEGEND, UTILITIES and **INDEX OF DRAWINGS**



PROJECT NO. 19002



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NO.	DATE	REVISIONS	
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BY	DATE:	AUGUST 2020
	PROJECT MGR:	TLH
	DRAWN BY:	MAU
	CHECKED BY:	RCC
	SCALE:	AS NOTED
	2018 © Kentucky En	gineering Group, PLL



LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS



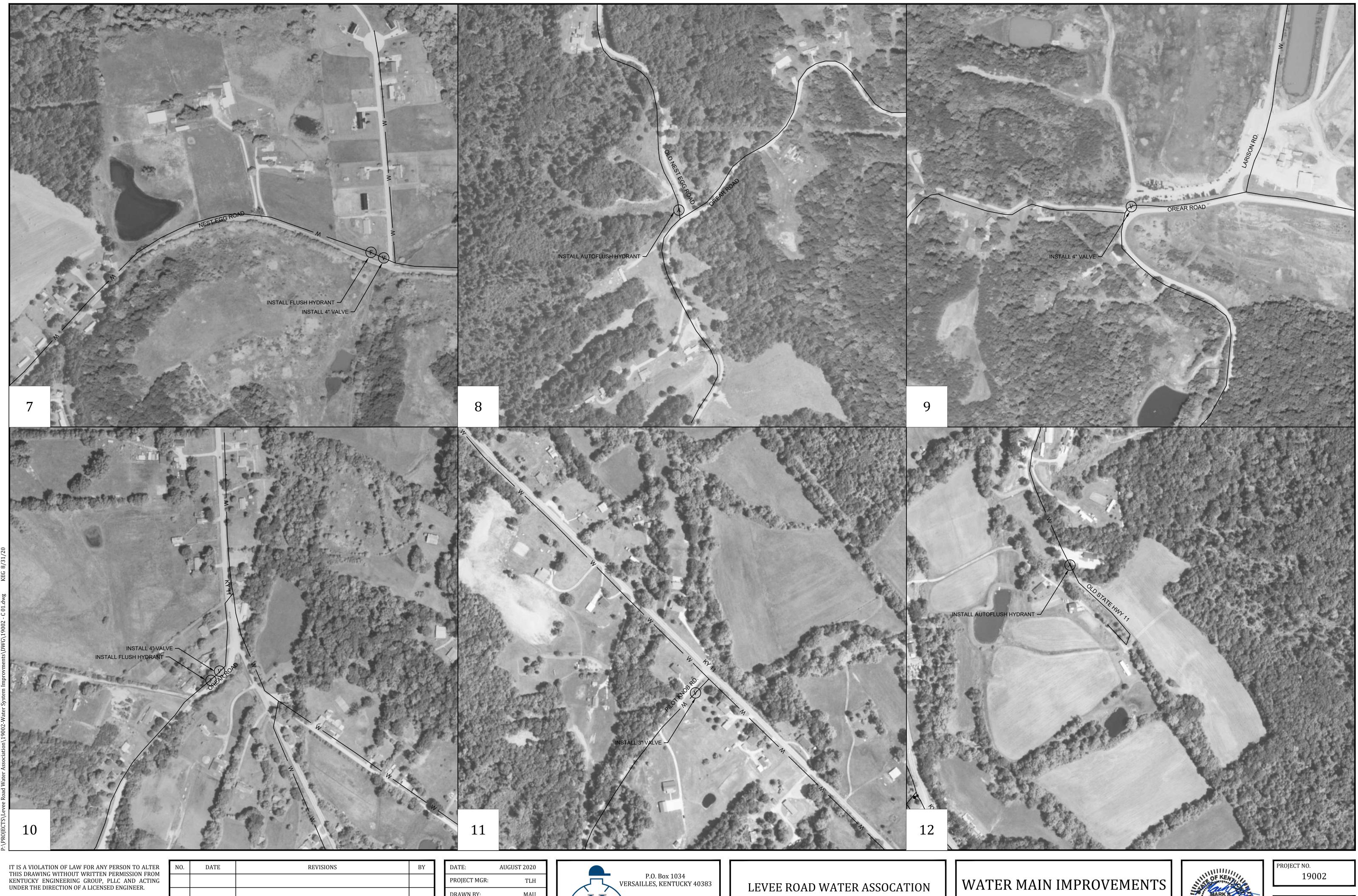
6

WATER MAIN IMPROVEMENTS VARIOUS LOCATIONS AREAS 1-6

INSTALL 3" VALVE -



PROJECT NO. 19002



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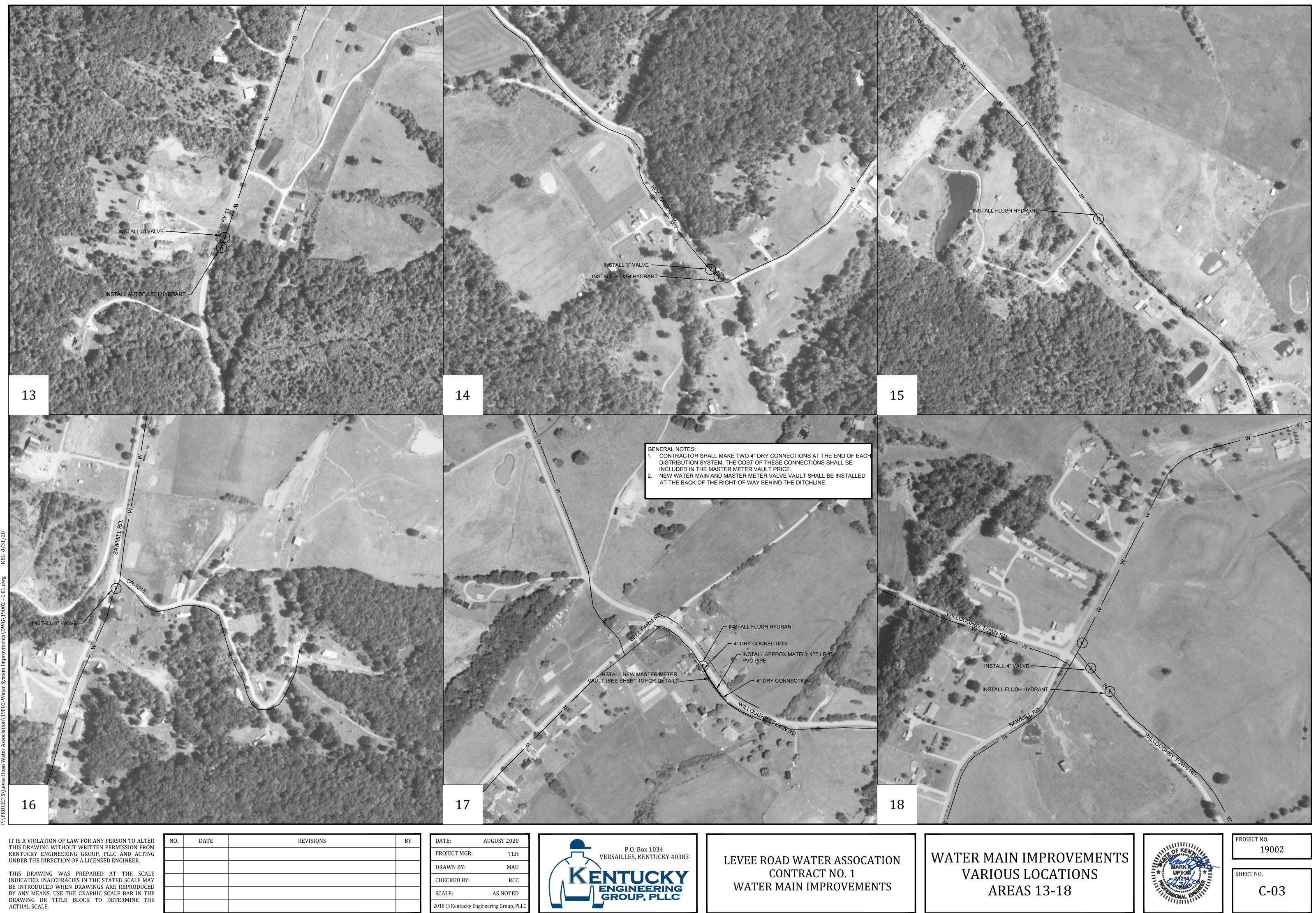
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LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

VARIOUS LOCATIONS AREAS 7-12





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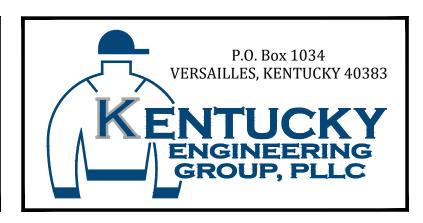


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LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

WATER MAIN IMPROVEMENTS VARIOUS LOCATIONS AREAS 19-22



PROJECT NO. 19002

SHEET NO.

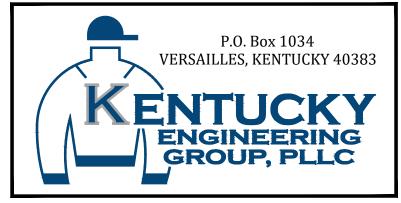
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l	DATE:	AUGUST 2020
	PROJECT MGR:	TLH
	DRAWN BY:	MAU
	CHECKED BY:	RCC
	SCALE:	AS NOTED
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LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

GENERAL NOTES:

- ALL WATER MAIN THIS SHEET SHALL BE PVC CLASS 250 SDR 17.
- RECONNECT ALL EXISTING METERS TO THE NEW WATER MAIN WITH NEW SERVICE TUBING FROM THE NEW MAIN TO THE EXISTING METER.
- ALL WATER MAIN THIS SHEET SHALL BE INSTALLED APPROXIMATELY 5 FEET FROM EXISTING WATER MAIN UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SPOT EXISTING WATERMAIN AHEAD OF CONTRUCTION IN ORDER TO AVOID CONFLICTS
- CONTRACTOR SHALL AVOID DISTURBANCE TO HEADWALLS / CROSS DRAINS ALONG KY HIGHWAY RIGHT OF WAY.
- ALL WATER MAIN ON THIS SHEET SHALL HAVE CLASS 1 MATERIAL BEDDING AND INITIAL BACKFILL REGARDLESS OF TRENCH MATERIAL.

LEVEE ROAD WATER MAIN REPLACEMENT



DOUBLE MET

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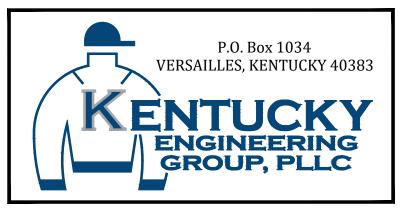
PROJECT NO. 19002



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	SCALE:	AS NOTED
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LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

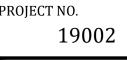


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LEVEE ROAD WATER MAIN REPLACEMENT



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SHEET NO.

SCALE: 1"=100'

C-06



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NO.	DATE	REVISIONS	

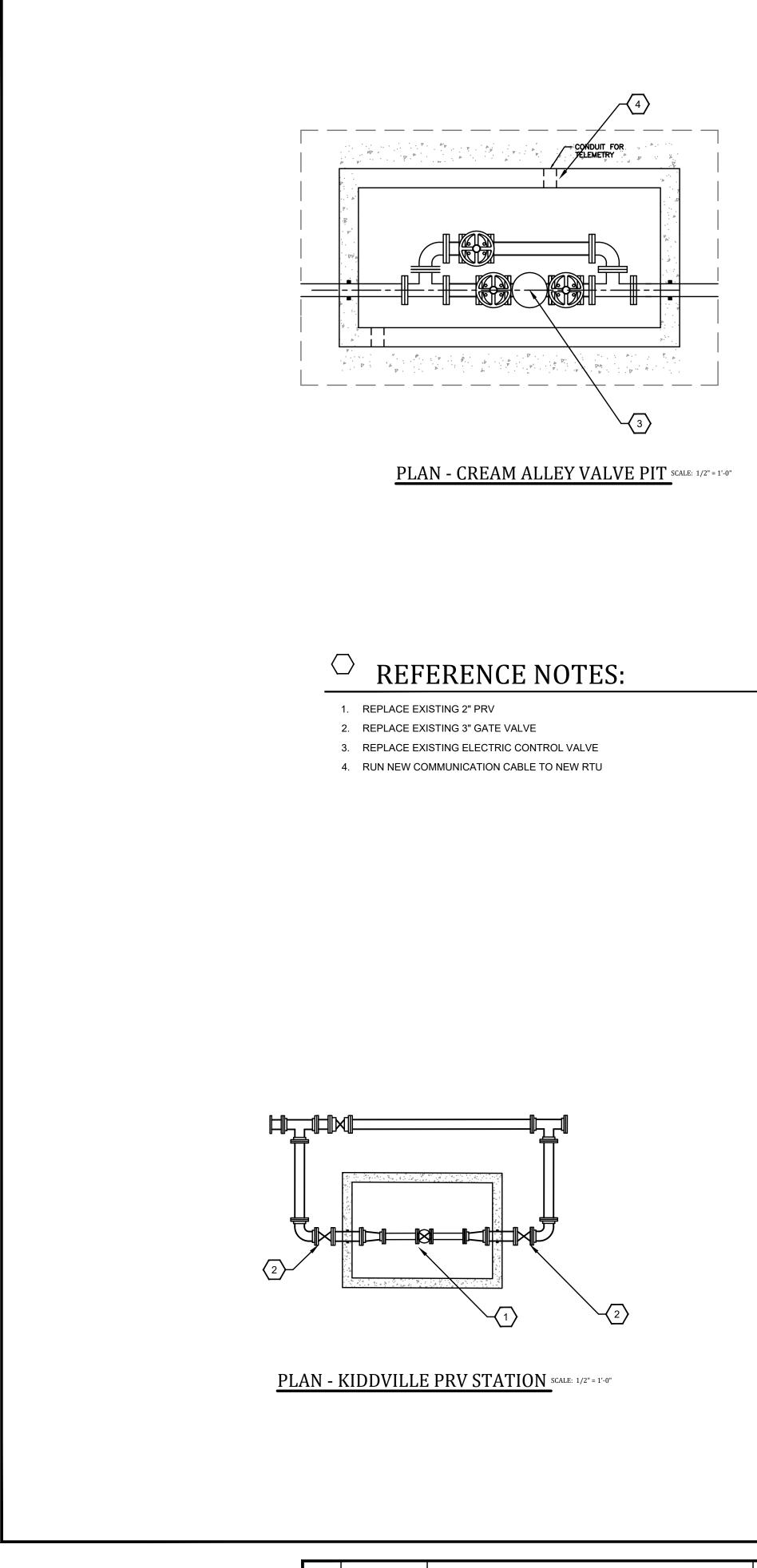


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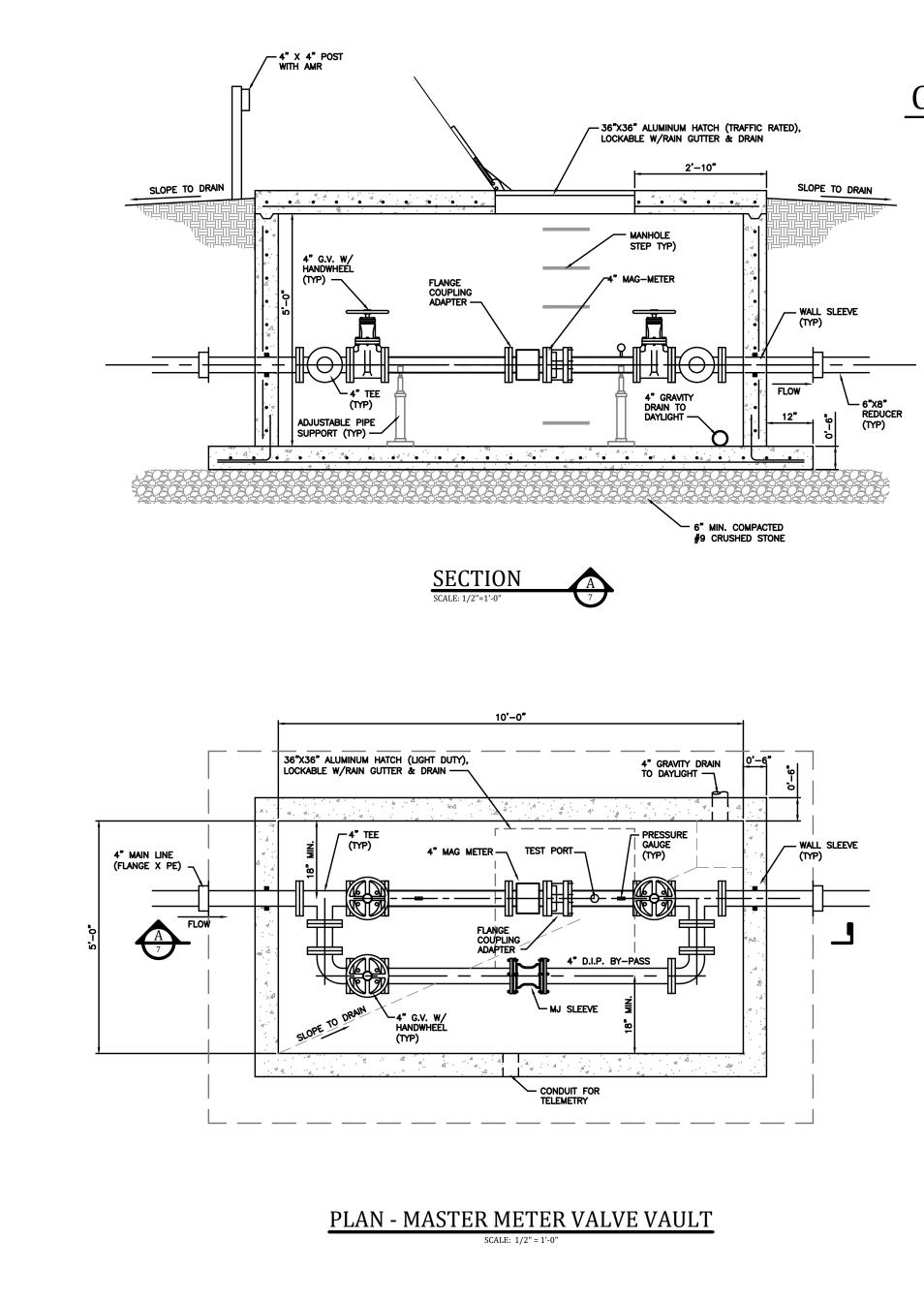
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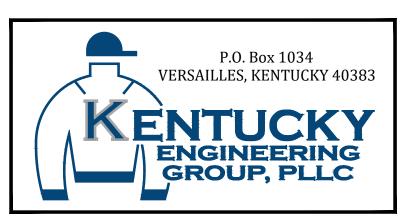




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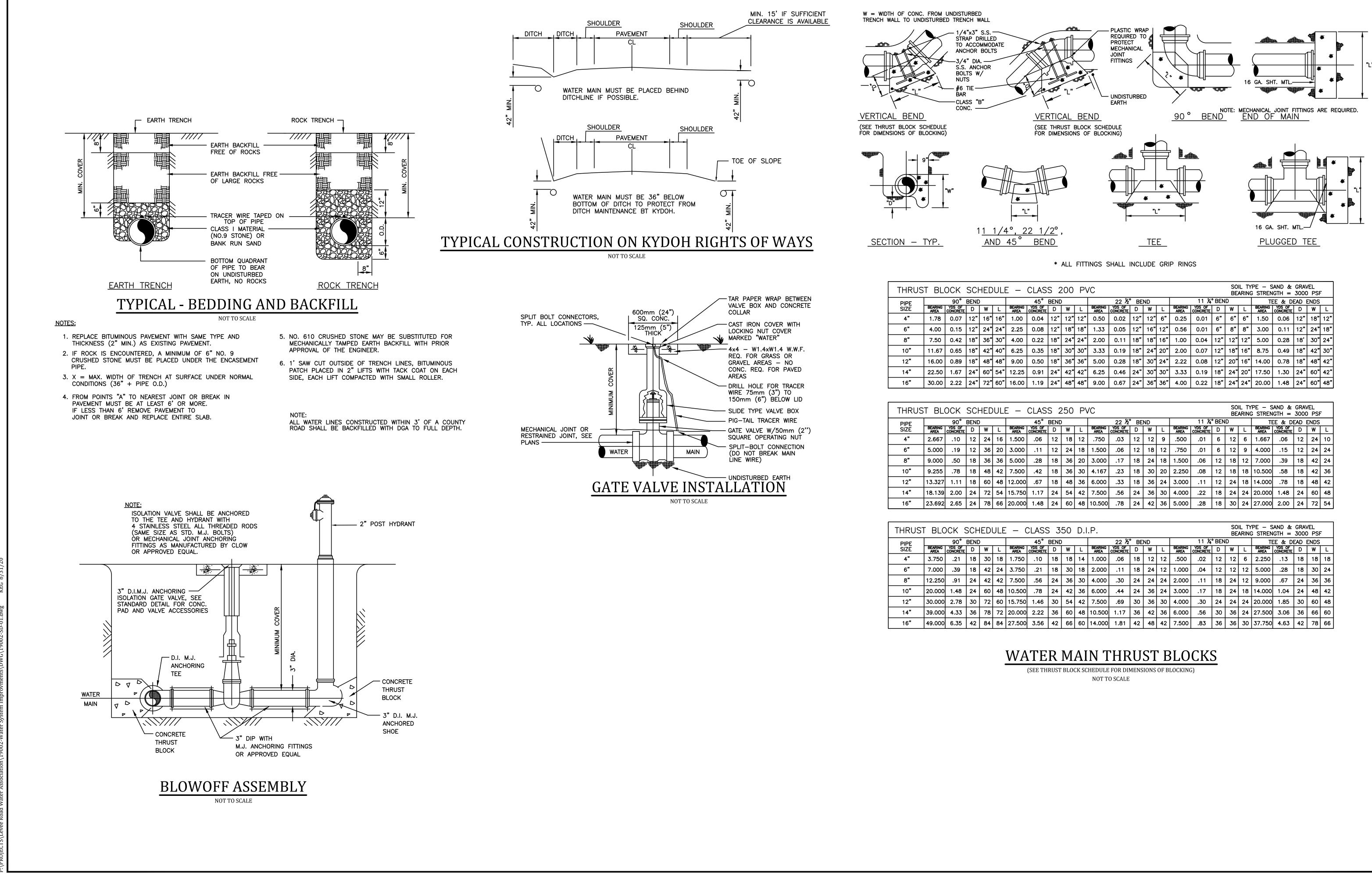
LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

- **GENERAL NOTES:** 1. CONTRACTOR SHALL SET VAULT IN PLACE AND CONNECT TO NEW WATER MAIN.
- 2. ACCESS HATCHES SHALL BE LIGHT DUTY ALUMINUM HINGED LID WITH LOCK.
- 3. VALVE VAULT SHALL BE A PRECAST CONCRETE VAULT. CONCRETE: 4500 PSI @ 28 DAYS REINFORCED W/#5 BAR @ 6" E.W. TOP OF VAULT TO BE EDGED, BRUSHED
- AND SEALED WITH CONCEAL. ALL HATCHES 1" ABOVE CONCRETE.
- 4. ADJUSTABLE PIPE SUPPORT STANCHIONS SHALL BE INSTALLED AT EACH FLANGE AND VALVE. SUPPORTS WILL ALSO BE INSTALLED IN OTHER LOCATIONS AS NECESSARY. 5. METER MUST BE SET IN A HORIZONTAL POSITION AND HAVE AT LEAST 10 DIAMETERS OF STRAIGHT PIPE AT
- INLET END. 6. STEPS SHALL BE VINYL COATED AND COMPLY WITH STD. NO. 1910.27 AND SHALL BE LOCATED TO PERMIT EASY ACCESS FROM VAULT HATCH.
- 4" DRAIN PIPE TO DITCH LINE IF POSSIBLE. BED DRAIN IN +/- 1 C.Y. OF #57 STONE IF NO STORM DRAIN AVAILABLE. OMIT DRAIN IF WATER TABLE IS ABOVE FLOOR LEVEL.
- 8. METER MUST BE A "COMPOUND METER" OR APPROVED EQUAL BY THE ENGINEER.
- 9. COMPOUND METER SHALL HAVE AUTOMATED METERREADING CAPABILITIES.

KIDDVILLE PRV, CREAM ALLEY ROAD VAULT, AND MASTER METER VAULT



PROJECT NO. 19002



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THRUS	THRUST BLOCK SCHEDULE - CLASS 350 D.I.P. SOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF															-									
PIPE		90°	BEND)			45 °	BEND)			22 ½	' BE	ND			11 1/4	' BEN	D		TE	E & D	EAD I	ENDS	
SIZE	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L
4"	3.750	.21	18	30	18	1.750	.10	18	18	14	1.000	.06	18	12	12	.500	.02	12	12	6	2.250	.13	18	18	18
6"	7.000	.39	18	42	24	3.750	.21	18	30	18	2.000	.11	18	24	12	1.000	.04	12	12	12	5.000	.28	18	30	24
8"	12.250	.91	24	42	42	7.500	.56	24	36	30	4.000	.30	24	24	24	2.000	.11	18	24	12	9.000	.67	24	36	36
10"	20.000	1.48	24	60	48	10.500	.78	24	42	36	6.000	.44	24	36	24	3.000	.17	18	24	18	14.000	1.04	24	48	42
12"	30.000	2.78	30	72	60	15.750	1.46	30	54	42	7.500	.69	30	36	30	4.000	.30	24	24	24	20.000	1.85	30	60	48
14"	39.000	4.33	36	78	72	20.000	2.22	36	60	48	10.500	1.17	36	42	36	6.000	.56	30	36	24	27.500	3.06	36	66	60
16"	49.000	6.35	42	84	84	27.500	3.56	42	66	60	14.000	1.81	42	48	42	7.500	.83	36	36	30	37.750	4.63	42	78	66

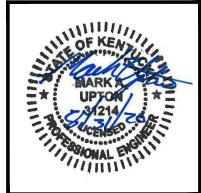
THRUS	THRUST BLOCK SCHEDULE CLASS 350 D.I.P. SOIL TYPE SAND & GRAVEL BEARING STRENGTH PIPE 90° BEND 45° BEND 22 ½° BEND 11 ¼° BEND TEE & DEAD ENDS															F									
PIPE			45 °	BEND)			22 1/2	вE	ND			11 /4	° BEN	D		T	E & D	EAD	ENDS					
SIZE	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L
4"	3.750	.21	18	30	18	1.750	.10	18	18	14	1.000	.06	18	12	12	.500	.02	12	12	6	2.250	.13	18	18	18
6"	7.000	.39	18	42	24	3.750	.21	18	30	18	2.000	.11	18	24	12	1.000	.04	12	12	12	5.000	.28	18	30	24
8"	12.250	.91	24	42	42	7.500	.56	24	36	30	4.000	.30	24	24	24	2.000	.11	18	24	12	9.000	.67	24	36	36
10"	20.000	1.48	24	60	48	10.500	.78	24	42	36	6.000	.44	24	36	24	3.000	.17	18	24	18	14.000	1.04	24	48	42
12"	30.000	2.78	30	72	60	15.750	1.46	30	54	42	7.500	.69	30	36	30	4.000	.30	24	24	24	20.000	1.85	30	60	48
14"	39.000	4.33	36	78	72	20.000	2.22	36	60	48	10.500	1.17	36	42	36	6.000	.56	30	36	24	27.500	3.06	36	66	60
16"	49.000	6.35	42	84	84	27.500	3.56	42	66	60	14.000	1.81	42	48	42	7.500	.83	36	36	30	37.750	4.63	42	78	66



LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

СК	CK SCHEDULE – CLASS 200 PVC SOIL TYPE – SAND & GRAVEL BEARING STRENGTH = 3000 PSF											.												
90° BEND 45° BEND										22 ½	2 ½° BEND				11 ¼° BEND					TEE & DEAD ENDS				
/DS OF ONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	
0.07	12"	16"	16"	1.00	0.04	12"	12"	12"	0.50	0.02	12"	12"	6"	0.25	0.01	6"	6"	6"	1.50	0.06	12"	18"	12"	
0.15	12"	24"	24"	2.25	0.08	12"	18"	18"	1.33	0.05	12"	16"	12"	0.56	0.01	6"	8"	8"	3.00	0.11	12"	24"	18"	
0.42	18"	36"	30"	4.00	0.22	18"	24"	24"	2.00	0.11	18"	18"	16"	1.00	0.04	12"	12"	12"	5.00	0.28	18'	30"	24"	
0.65	18"	42"	40"	6.25	0.35	18"	30"	30"	3.33	0.19	18"	24"	20"	2.00	0.07	12"	18"	16"	8.75	0.49	18"	42"	30"	
0.89	18"	48"	48"	9.00	0.50	18"	36"	36"	5.00	0.28	18"	30"	24"	2.22	0.08	12"	20"	16"	14.00	0.78	18"	48"	42"	
1.67	24"	60"	54"	12.25	0.91	24"	42"	42"	6.25	0.46	24"	30"	30"	3.33	0.19	18"	24"	20"	17.50	1.30	24"	60"	42"	
2.22	24"	72"	60"	16.00	1.19	24"	48"	48"	9.00	0.67	24"	36"	36"	4.00	0.22	18"	24"	24"	20.00	1.48	24"	60 "	48"	

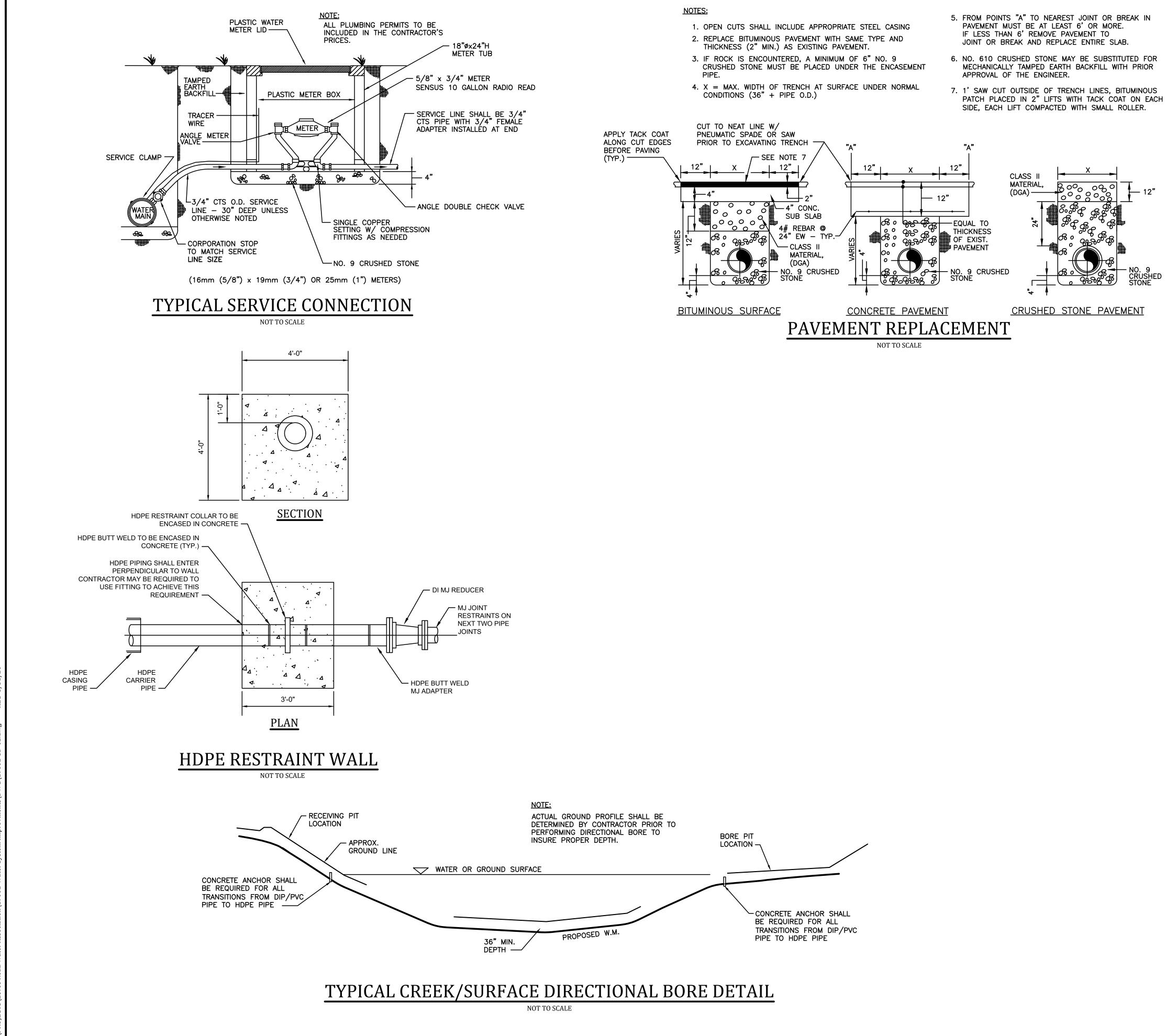
K SCHEDULECLASS 250 PVCSOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF																						
BEND)		45° BEND					22 ½° BEND					11 ¼° BEND					TEE & DEAD ENDS				
D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L
12	24	16	1.500	.06	12	18	12	.750	.03	12	12	9	.500	.01	6	12	6	1.667	.06	12	24	10
12	36	20	3.000	.11	12	24	18	1.500	.06	12	18	12	.750	.01	6	12	9	4.000	.15	12	24	24
18	36	36	5.000	.28	18	36	20	3.000	.17	18	24	18	1.500	.06	12	18	12	7.000	.39	18	42	24
18	48	42	7.500	.42	18	36	30	4.167	.23	18	30	20	2.250	.08	12	18	18	10.500	.58	18	42	36
18	60	48	12.000	.67	18	48	36	6.000	.33	18	36	24	3.000	.11	12	24	18	14.000	.78	18	48	42
24	72	54	15.750	1.17	24	54	42	7.500	.56	24	36	30	4.000	.22	18	24	24	20.000	1.48	24	60	48
24	78	66	20.000	1.48	24	60	48	10.500	.78	24	42	36	5.000	.28	18	30	24	27.000	2.00	24	72	54
	BEND D 12 12 18 18 18 18 24	BEND D W 12 24 12 36 18 36 18 48 18 60 24 72	BEND D W L 12 24 16 12 36 20 18 36 36 18 48 42 18 60 48 24 72 54	BEND K L BEARING AREA 12 24 16 1.500 12 36 20 3.000 18 36 36 5.000 18 48 42 7.500 18 60 48 12.000 24 72 54 15.750	BEND L BEARING AREA CONCRETE 12 24 16 1.500 .06 12 36 20 3.000 .11 18 36 36 5.000 .28 18 48 42 7.500 .42 18 60 48 12.000 .67 24 72 54 15.750 1.17	BEND 45° BEND D W L BEARING CONCRETE D 12 24 16 1.500 .06 12 12 36 20 3.000 .11 12 18 36 36 5.000 .28 18 18 48 42 7.500 .42 18 18 60 48 12.000 .677 18 24 72 54 15.750 1.17 24	BEND 45° BEND D W L BEARING CONCRETE ID D W 12 24 16 1.500 .06 12 18 12 36 20 3.000 .11 12 24 18 36 36 5.000 .28 18 36 18 48 42 7.500 .42 18 36 18 60 48 12.000 .677 18 48 24 72 54 15.750 1.17 24 54	BEND 45° BEND D W L BEARING CONCRETE D W L 12 24 16 1.500 .06 12 18 12 12 36 20 3.000 .11 12 24 18 18 36 36 5.000 .28 18 36 20 18 48 42 7.500 .42 18 36 30 18 60 48 12.000 .677 18 48 36 24 72 54 15.750 1.17 24 54 42	BEND 45° BEND BEARING MOS OF CONCRETE D W L BEARING AREA 12 24 16 1.500 .06 12 18 12 .750 12 36 20 3.000 .11 12 24 18 1.500 18 36 36 5.000 .28 18 36 20 3.000 18 48 42 7.500 .42 18 36 30 4.167 18 60 48 12.000 .677 18 48 36 6.000 24 72 54 15.750 1.17 24 54 42 7.500	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	BEND 45° BEND $22 \frac{1}{2}$ BE BEARING $70S OF CONCRETE D W L BEARING CONCRETE D M I M M I M I M M I M M I M M I M M M M M M M M M M M M M M M $	BEND 45° BEND $22 \frac{1}{2}^{\circ}$ BEND D W L BEARING CONCRETE D W L BEARING CONCRETE D W 12 24 16 1.500 .06 12 18 12 .750 .03 12 12 12 36 20 3.000 .11 12 24 18 1.500 .06 12 18 18 36 36 5.000 .28 18 36 20 3.000 .17 18 24 18 48 42 7.500 .42 18 36 30 4.167 .23 18 30 18 60 48 12.000 .67 18 48 36 6.000 .333 18 36 24 72 54 15.750 1.17 24 54 42 7.500 .56 24 36	BEND 45° BEND $22 \frac{1}{2} \circ$ BEND D W L BEARING CONCRETE D W L 12 24 16 1.500 .06 12 18 12 .750 .03 12 12 9 12 36 20 3.000 .11 12 24 18 1.500 .06 12 18 12 18 36 36 5.000 .28 18 36 20 3.000 .117 18 24 18 18 48 42 7.500 .42 18 36 30 4.167 .23 18 36 24 18 60 48 12.000 .67 18 48 36 6.000 .33	BEND 45° BEND $22 \frac{1}{2}$ ° BEND $22 \frac{1}{2}$ ° BEND BEARING BEARING $70S OF CONCRETE$ D W L BEARING 12 24 16 1.500 .06 12 18 12 12 13 12 .750 18 36 36 5.000 .28 18 36 20 3.000 .17 18 24 18 1.500 18 48 42 7.500 .42 18 36 30 4.167 .23 18 36 24 3.	BEND 22 $\frac{1}{2}$ ° BEND 11 $\frac{1}{4}$ ° D W L BEARING CONCRETE D N L I I I I I I I I I I I I <thi< th=""> I <thi< th=""></thi<></thi<>	BEND 45° BEND $22 \frac{1}{2}$ ° BEND $11 \frac{1}{2}$ ° BEND D W L BEARING CONCRETE D M L III $\frac{1}{2}$ D M III $\frac{1}{2}$ D M III $\frac{1}{2}$ D M III $\frac{1}{2}$ D M III $\frac{1}{2}$ D III $\frac{1}{2}$ D III	SCHEDULE - CLASS 250 PVC BEND 22 ½ BEND 11 ½ BEND BEND 22 ½ BEND 11 ½ BEARING BEND D W L BEARING YDS OF D W I BEARING YDS OF D W I <thi< th=""> <thi< td=""><td>SCHEDULE - CLASS 250 PVC BEARING BEND 22 ½° BEND 11 ¼° BEND BEND 22 ½° BEND 11 ¼° BEND D W L BEARING CONCRETE D W L BEARING CONCRETE</td><td>SCHEDULE - CLASS 250 PVC BEARING STREM BEND 22 ½° BEND 11 ½° BEND TE BEND L BEARING VDS OF CONCRETE D W L BEARING VDS OF CONCRETE D W L BEARING VDS OF CONCRETE D W L BEARING REARCH MEAN ME</td><td>SCHEDULE – CLASS 250 PVC BEARING STRENGTH = BEND 45° BEND 22 ½° BEND 11 ½° BEND TEE & DI TEE & DI D W L BEARING YDS OF OO OI 6 12 6 1.667 .06 12 24 16 1.500 .06 12 18 12 .750 .03 12 18 12 .750 .03 12 18 12 .750 .01 6 12 6 1.667 .06 12 36 20 3.000 .11 12 24 18 1.500 .066 12 18 12 .750 .01 6 12 9 4.000 .15 18 36 36 20 3.000 .17 18 24 18 1.2 .18 14.000</td><td>SCHEDULE - CLASS 250 PVC BEARING STRENGTH = 3000 BEARING STRENGTH = 1000 BEND 11 ½° BEND TEE & DEAD E D W L BEARING CONCRETE D <th< td=""><td>SCHEDULE - CLASS 250 PVC BEARING 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 0 PVC TEE & DEAD ENDS D W L BEARING CONCRETE D W L L L</td></th<></td></thi<></thi<>	SCHEDULE - CLASS 250 PVC BEARING BEND 22 ½° BEND 11 ¼° BEND BEND 22 ½° BEND 11 ¼° BEND D W L BEARING CONCRETE D W L BEARING CONCRETE	SCHEDULE - CLASS 250 PVC BEARING STREM BEND 22 ½° BEND 11 ½° BEND TE BEND L BEARING VDS OF CONCRETE D W L BEARING VDS OF CONCRETE D W L BEARING VDS OF CONCRETE D W L BEARING REARCH MEAN ME	SCHEDULE – CLASS 250 PVC BEARING STRENGTH = BEND 45° BEND 22 ½° BEND 11 ½° BEND TEE & DI TEE & DI D W L BEARING YDS OF OO OI 6 12 6 1.667 .06 12 24 16 1.500 .06 12 18 12 .750 .03 12 18 12 .750 .03 12 18 12 .750 .01 6 12 6 1.667 .06 12 36 20 3.000 .11 12 24 18 1.500 .066 12 18 12 .750 .01 6 12 9 4.000 .15 18 36 36 20 3.000 .17 18 24 18 1.2 .18 14.000	SCHEDULE - CLASS 250 PVC BEARING STRENGTH = 3000 BEARING STRENGTH = 1000 BEND 11 ½° BEND TEE & DEAD E D W L BEARING CONCRETE D <th< td=""><td>SCHEDULE - CLASS 250 PVC BEARING 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 0 PVC TEE & DEAD ENDS D W L BEARING CONCRETE D W L L L</td></th<>	SCHEDULE - CLASS 250 PVC BEARING 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 250 PVC BEARING STRENGTH = 3000 PSF BEARING YDS OF AREA CLASS 0 PVC TEE & DEAD ENDS D W L BEARING CONCRETE D W L L L



PROJECT NO. 19002

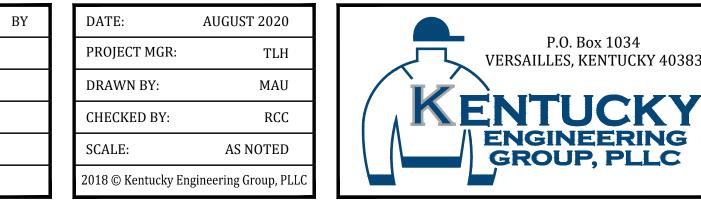
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STANDARD DETAILS



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

NO.	DATE	REVISIONS	



P.O. Box 1034

LEVEE ROAD WATER ASSOCATION CONTRACT NO. 1 WATER MAIN IMPROVEMENTS

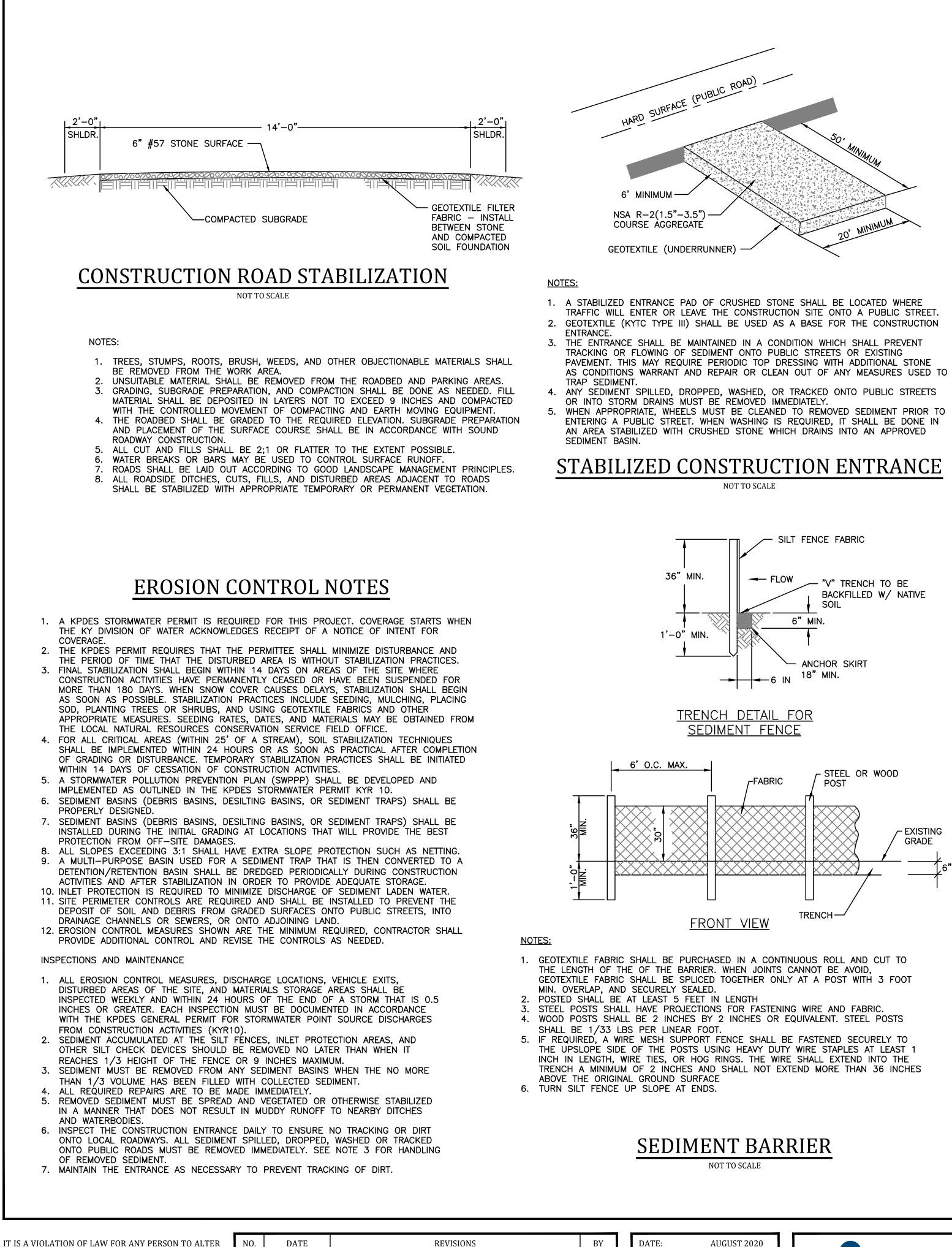
CRUSHED STONE

PROJECT NO. 19002

SHEET NO. SD-02

UPTON

STANDARD DETAILS



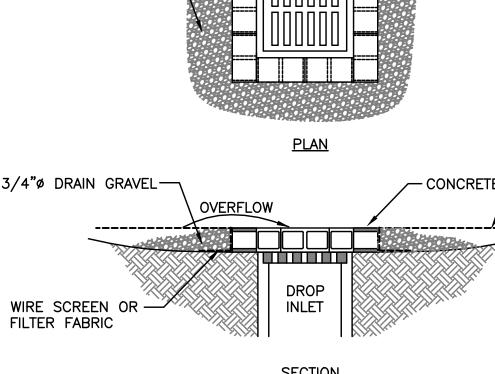
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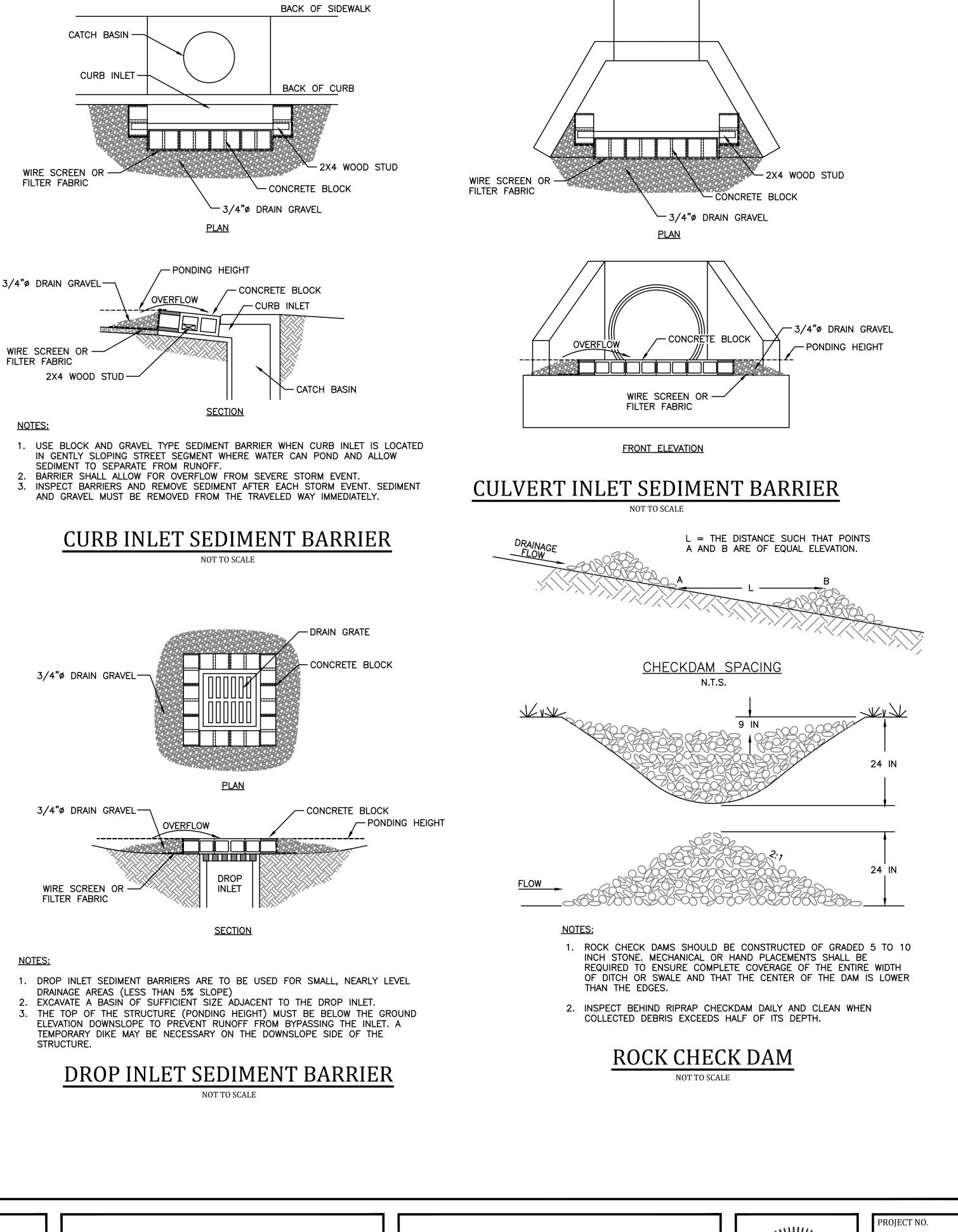


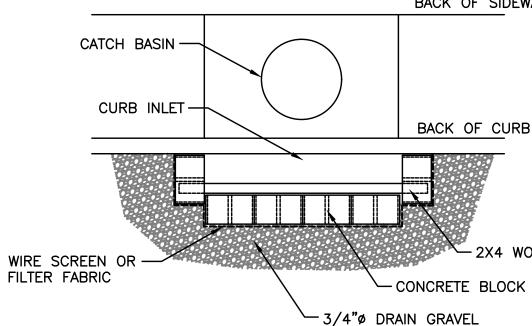
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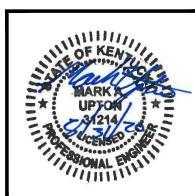
SCALE:



- SEDIMENT TO SEPARATE FROM RUNOFF.
- **SECTION**







19002

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SHEET NO. **SD-03**