

WATER NOTES:

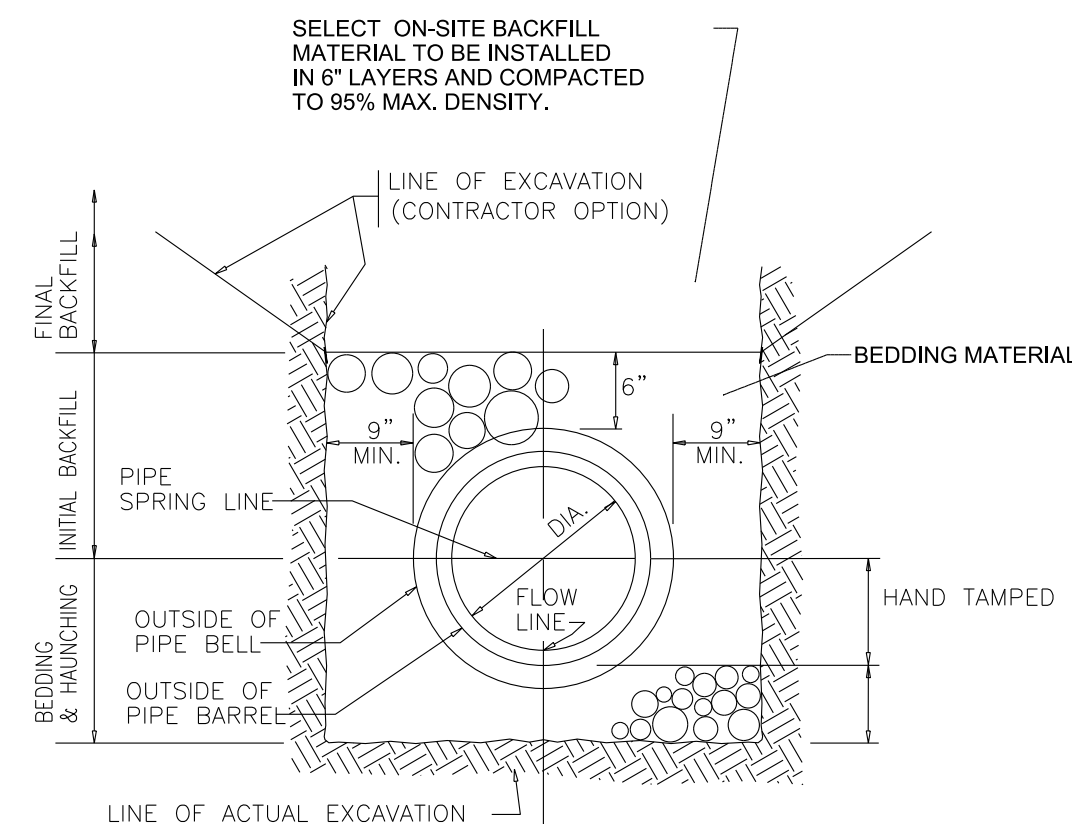
- EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNERS OF EACH UTILITY PRIOR TO CONSTRUCTION IN THE AREA AND REQUEST EXACT HORIZONTAL AND VERTICAL LOCATIONS.
- WATER PIPE SHALL BE CLASS 250 PVC.
- SERVICE LINES 500 L.F. OR LESS SHALL BE 2" POLYPIPE PE 3408 DR9. LINES GREATER THAN 500 L.F. UP TO 1,500 L.F. SHALL BE 1" POLYPIPE PE 3408 DR9. LINES GREATER THAN 1,500 L.F. MUST BE APPROVED BY THE OFFICIALS OF EACH UTILITY OWNER/PROVIDER.
- SERVICE LINES UNDER ROADWAYS, CREEKS AND CONCRETE DRIVEWAYS SHALL BE DIRECTIONAL BORE WITH 2" PVC OR HDPE CASING. ASPHALT AND GRAVEL DRIVEWAYS MAY BE OPEN CUT AND INSTALLED IN 2" PVC OR HDPE CASING.
- CONTRACTOR MUST HAVE A VALID CONTRACTOR UTILITY LICENSE FOR INSTALLATION OF UNDERGROUND PIPING.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY.
- CONTRACTOR SHALL SHORE AND BRACE ALL OPEN CUT TRENCHES AS REQUIRED BY STATE AND FEDERAL LAWS AND LOCAL ORDINANCES; TO CONFORM WITH RECOMMENDATIONS SET FORTH IN THE AGC MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION; TO PROTECT LIFE, PROPERTY, OR WORK; TO AVOID EXCESSIVELY WIDE CUTS IN UNSTABLE MATERIAL.
- ALL AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY PAVEMENT OR OTHER STRUCTURES SHALL BE PREPARED FOR SEEDING AND MULCH AS SOON AS PRACTICAL AFTER THE INSTALLATION OF PIPE LINE HAS BEEN COMPLETED IN EACH AREA.
- ALL APPURTENANCES SUCH AS MAIL BOXES, FENCES, ETC. MOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND/OR REPAIRED TO EXISTING CONDITION AFTER CONSTRUCTION.
- ALL DRIVEWAY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AND EQUAL TO THE EXISTING CONDITION OR BETTER.
- CONSTRUCTION SHALL ADHERE TO THE MOST CURRENT TDEC APPROVED STANDARD SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION FOR THE ANDERSON COUNTY WATER AUTHORITY.

EROSION / POLLUTION CONTROL:

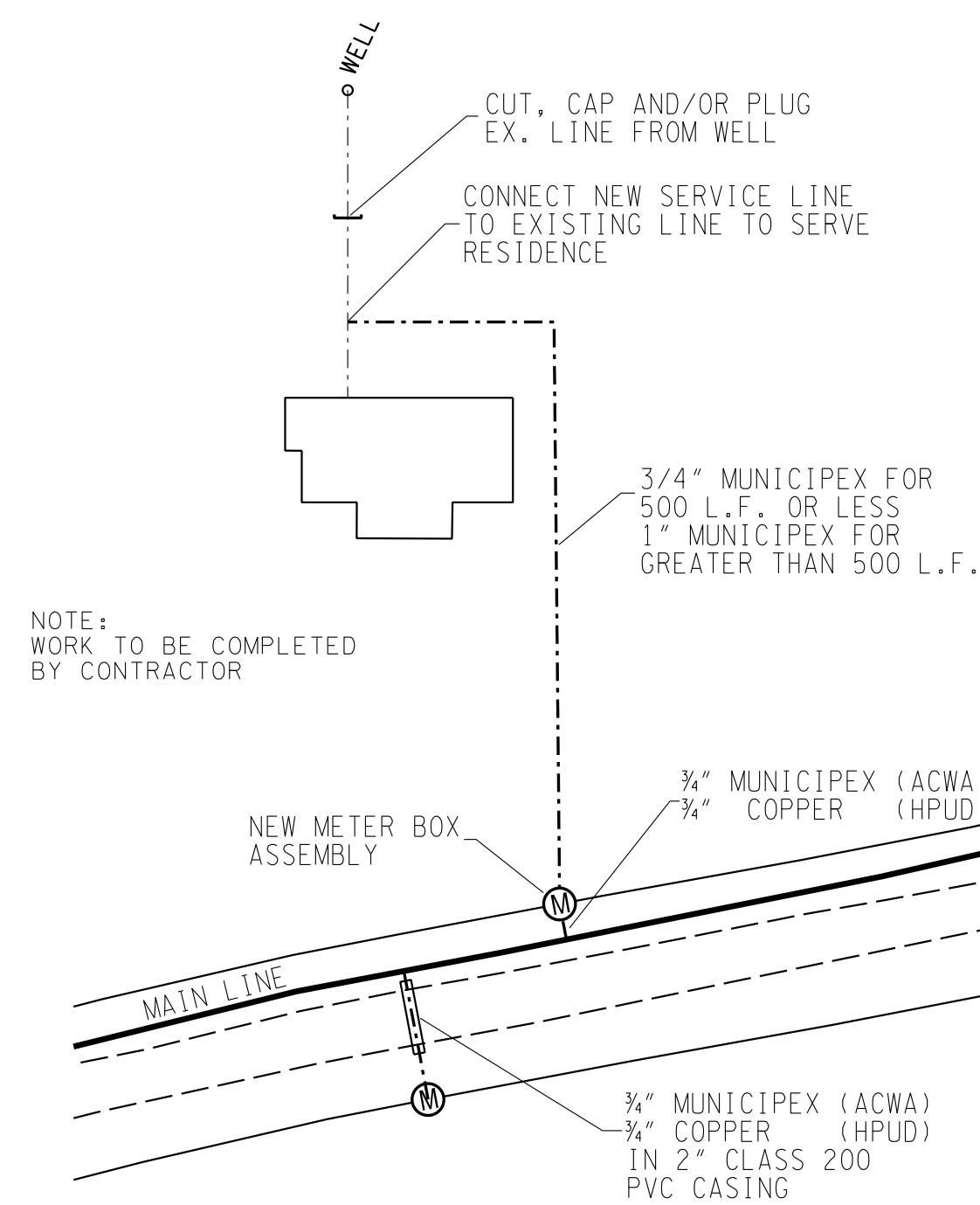
- ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL REQUIREMENTS SHALL BE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE CONSTRUCTION SLOPES. THE CONTRACTOR SHALL ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN AS PROVIDED IN THE CONTRACT DOCUMENTS.
- ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT FROM ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION CONTROL PROVISIONS AS SET FORTH IN THE EROSION AND SEDIMENT CONTROL HANDBOOK AVAILABLE FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION.
- THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY VEGETATION, BERMS, SEDIMENT BASINS, SLOPE DRAINS, AND SILT FENCES) AS DIRECTED BY THE ENGINEER.
- NO EARTH OR OTHER ERODIBLE MATERIAL SHALL BE USED TO DIVERT STREAM FLOW OR TO CONSTRUCT COFFERDAMS. CLEAN CUT ROCK WITH FINES MAY BE USED, OR IN THE CASE OF COFFERDAMS, STEEL SHEETING OR SAND BAGS IS PERMISSIBLE. WATER OR SEDIMENT ISOLATED BY COFFERDAMS SHALL BE PUMPED INTO SEDIMENT BASINS ON THE BANK OF THE STREAM.

UTILITIES:

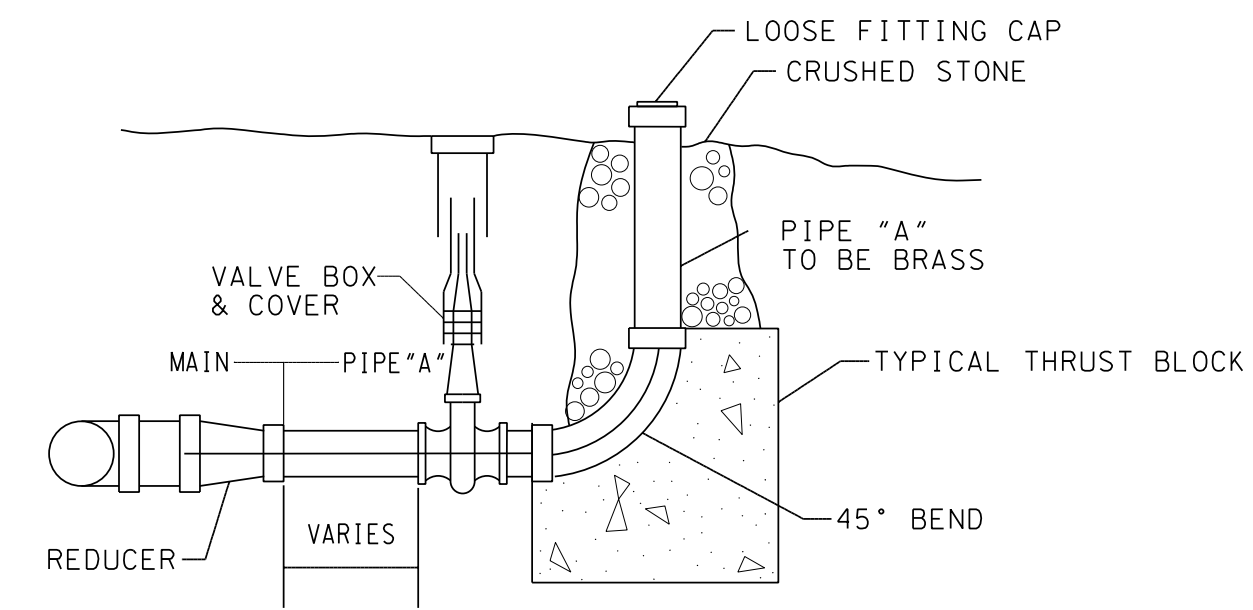
- LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY ELECTRICAL, COMMUNICATIONS, GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE ANDERSON COUNTY WATER AUTHORITY.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT.
- ANY EXISTING STORM DRAINAGE PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER.
- WHERE WATER PIPING CROSSES THE SANITARY SEWER FORCE MAIN, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE FORCE MAIN. THE FORCE MAIN SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS OR HDPE AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.



UNDERGROUND INSTALLATION OF ALL WATER PIPE

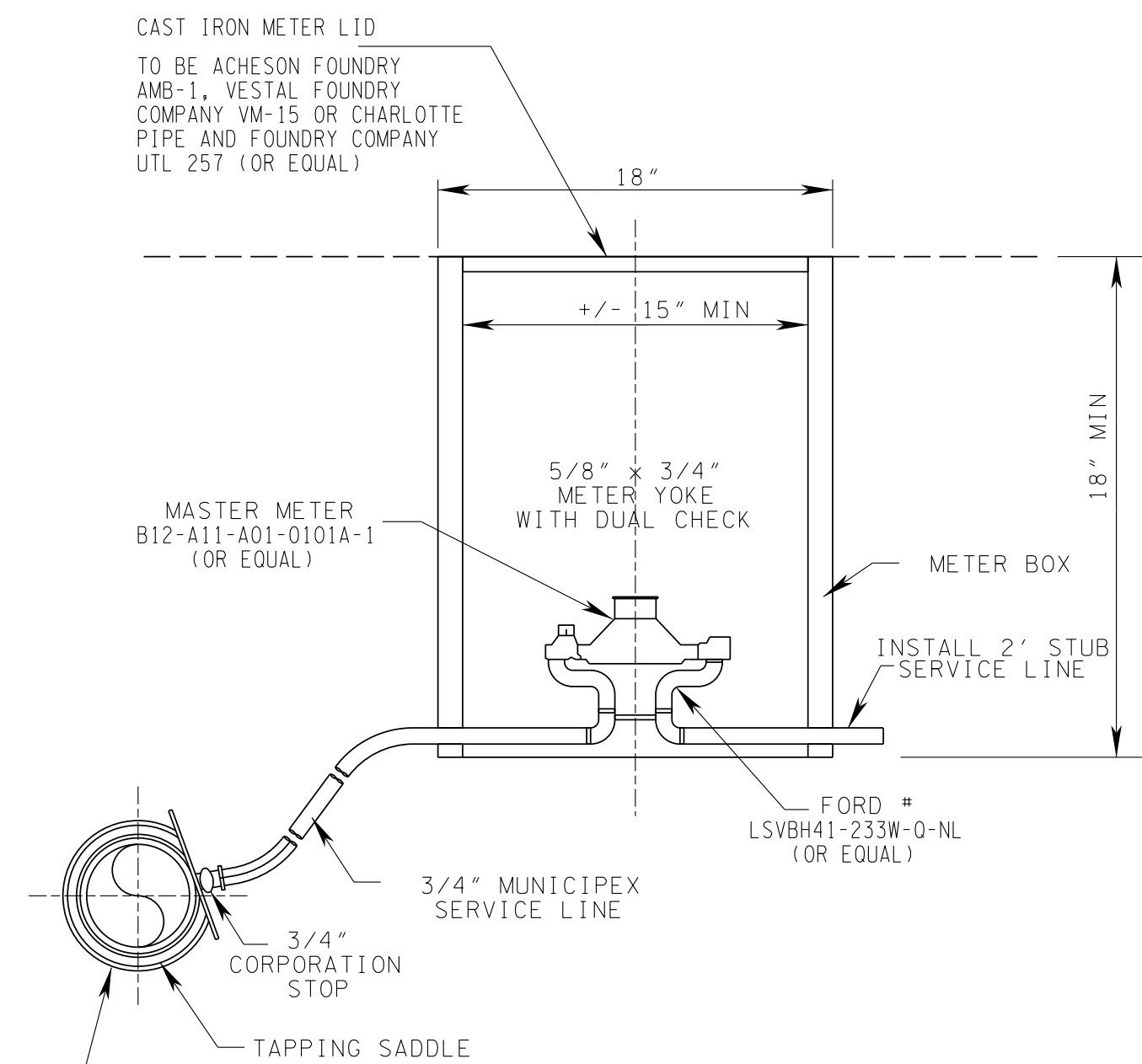


TYPICAL SERVICE CONNECTION

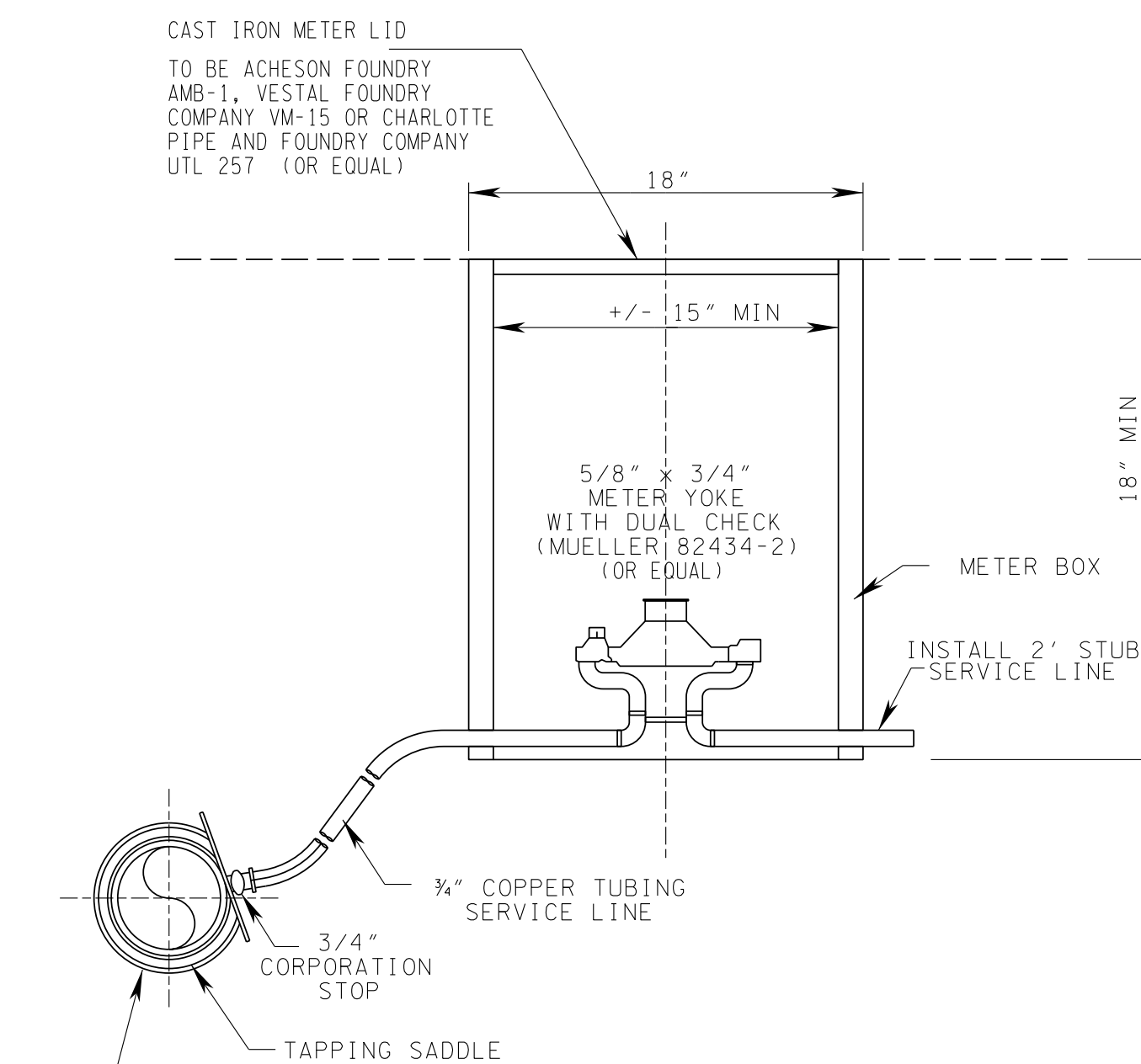


WATER MAIN	PIPE "A"/VALVE
UP TO 6" MAIN	2" MIN
8" TO 20" MAIN	3" MIN
20" TO 36" MAIN	4" MIN

BLOWOFF ASSEMBLY



ACWA - SERVICE CONNECTION

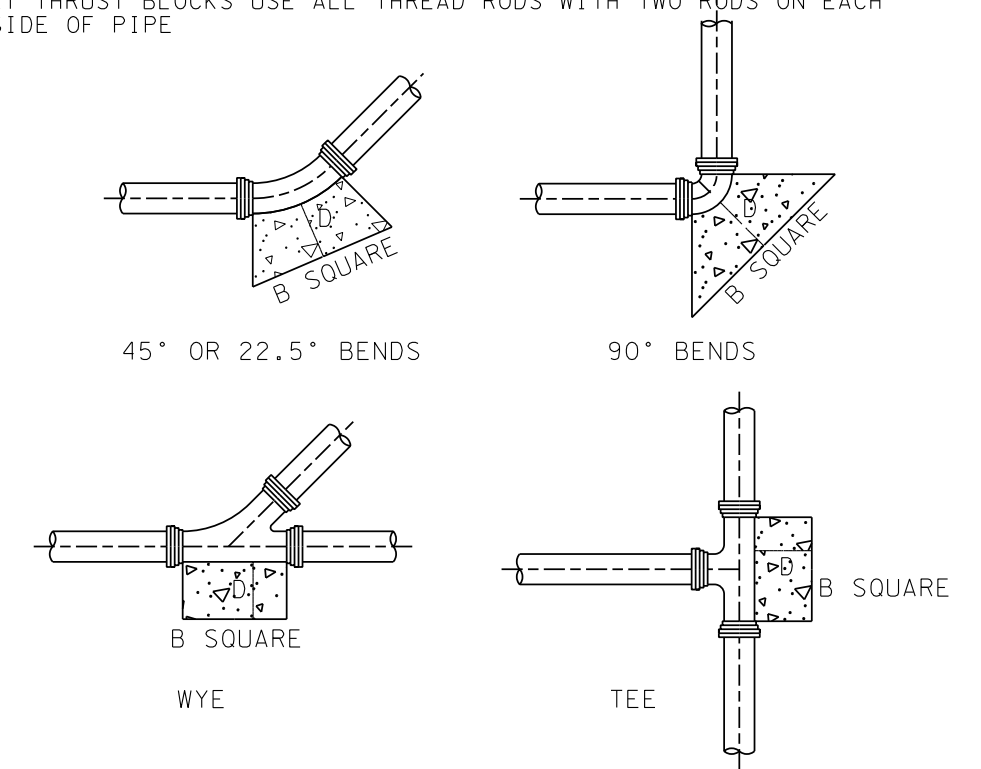


HPUD - SERVICE CONNECTION

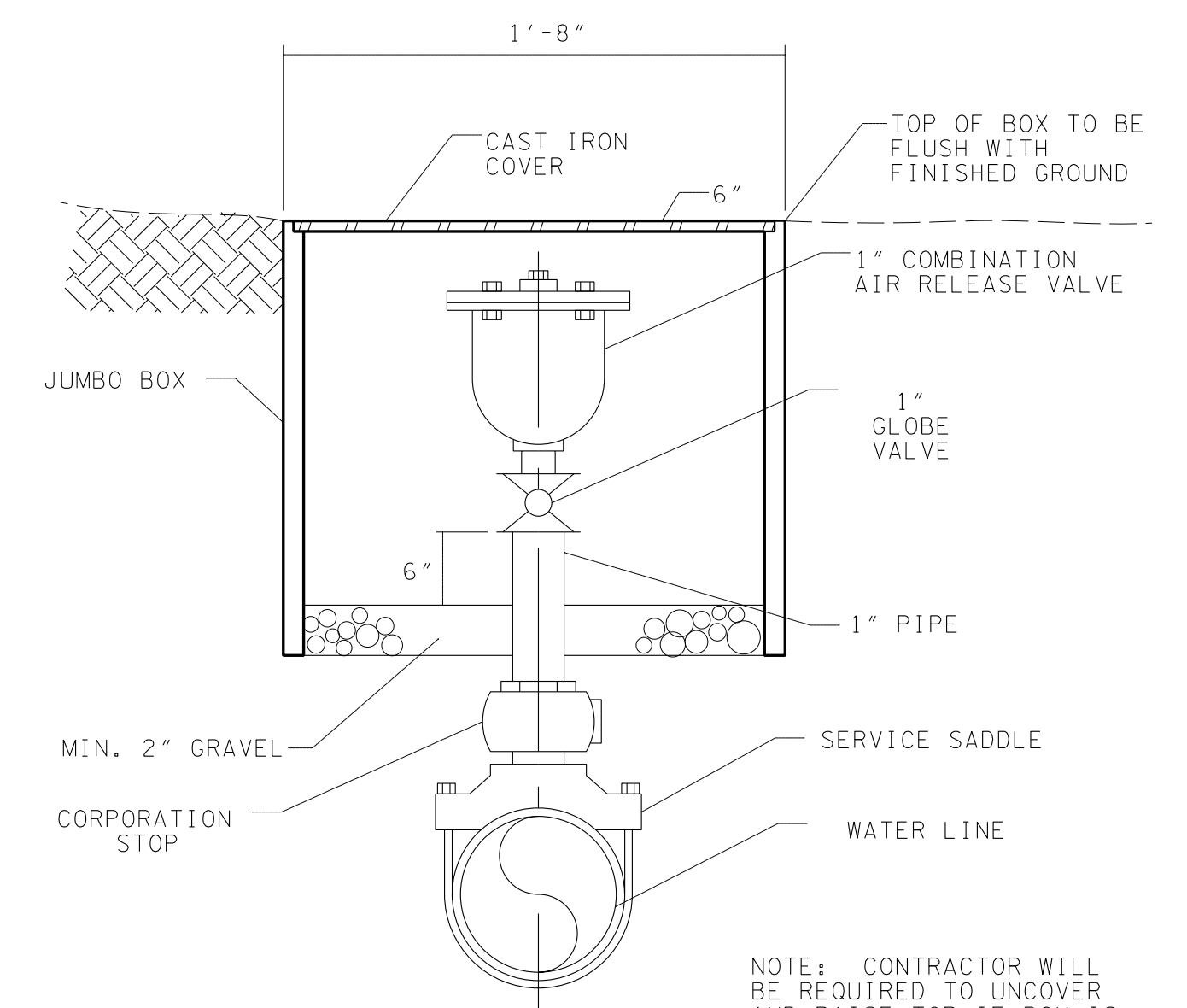
PIPE IN.	THRUST BLOCKS								
	90° BENDS		45° BENDS		22.5° BENDS		WYES & TEES		
	B	D	B	D	B	D	B	D	
2	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'
3	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'
4	1.0'	1.0'	1.0'	1.0'	1.0'	1.0'	1.2'	1.0'	1.0'
6	1.4'	1.0'	1.0'	1.0'	1.0'	1.0'	1.6'	1.0'	1.0'
8	1.8'	1.0'	1.4'	1.0'	1.0'	1.0'	2.2'	1.0'	1.0'
10	2.3'	1.0'	1.7'	1.0'	1.0'	1.0'	2.7'	1.0'	1.0'
12	2.7'	1.0'	2.0'	1.0'	1.4'	1.0'	3.2'	1.0'	1.0'
14	3.2'	1.0'	2.4'	1.0'	1.7'	1.0'	3.8'	1.0'	1.0'
16	3.6'	1.0'	2.7'	1.0'	1.9'	1.0'	4.3'	1.2'	1.0'
18	4.1'	1.2'	3.0'	1.0'	2.2'	1.0'	4.9'	1.2'	1.0'
20	4.5'	1.2'	3.4'	1.0'	2.4'	1.0'	5.4'	1.2'	1.0'
24	5.5'	1.2'	4.0'	1.0'	2.9'	1.0'	6.5'	1.5'	1.0'
30	6.8'	1.5'	5.0'	1.2'	3.6'	1.0'	8.1'	1.7'	1.0'
36	8.2'	1.7'	6.0'	1.3'	4.3'	1.2'	9.7'	1.8'	1.0'
42	9.6'	1.8'	7.0'	1.5'	5.0'	1.2'	11.3'	2.0'	1.0'

NOTES:

- THRUST BLOCK TO BE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI CONCRETE AT 28 DAYS.
- ALL THRUST BLOCKING SHALL BEAR AGAINST UNDISTURBED SOIL.
- AT THRUST BLOCKS USE ALL THREAD RODS WITH TWO RODS ON EACH SIDE OF PIPE

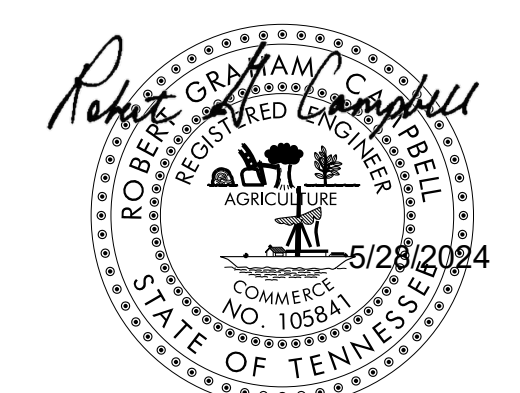


THRUST BLOCKS



AIR RELEASE VALVE TO BE INSTALLED AT CREST

NOTE: CONTRACTOR WILL BE REQUIRED TO UNCOVER AND RAISE TOP OF BOX IS NOT AT OR SLIGHTLY ABOVE FINISHED GRADE.



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1	1/23/24	ADDED (OR EQUAL) TO SERVICE CONNECTION DETAILS		
		REVISIONS	BY	CKD.

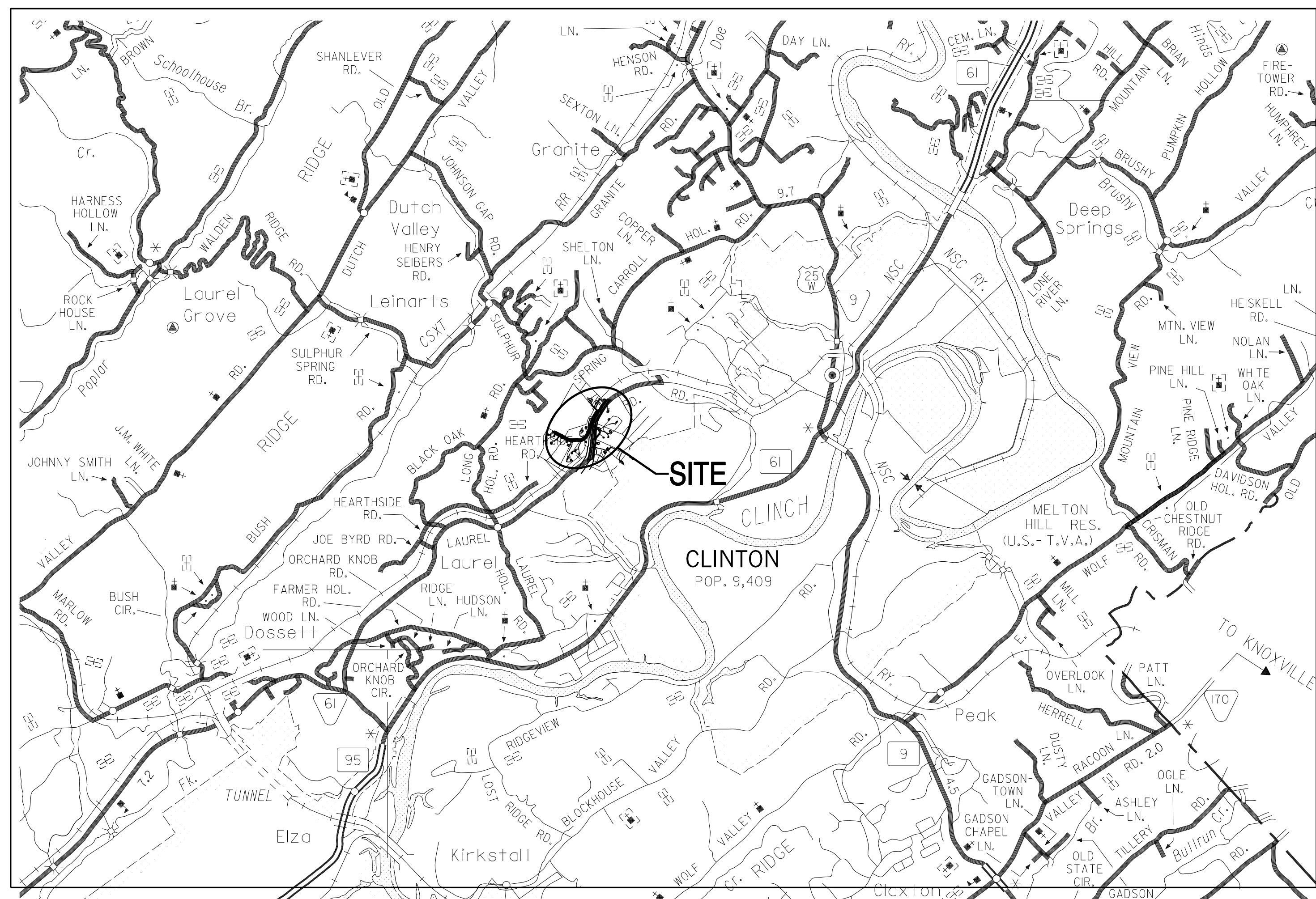


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KNOXVILLE, TENNESSEE

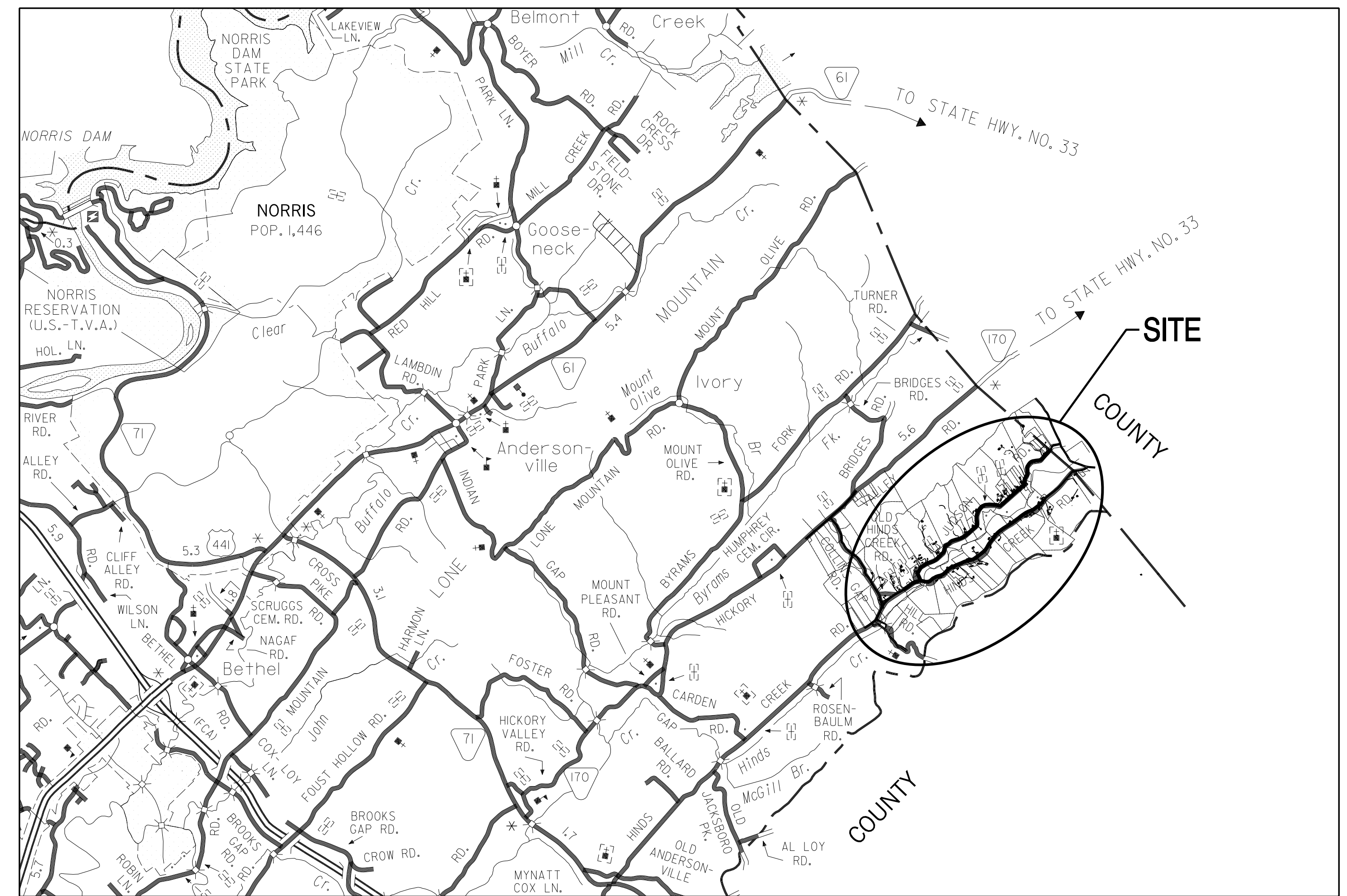
ANDERSON COUNTY WATER AUTHORITY
HALLSDALE POWELL UTILITY DISTRICT

2020 CDBG WATER LINE EXTENSION
NOTES & DETAILS

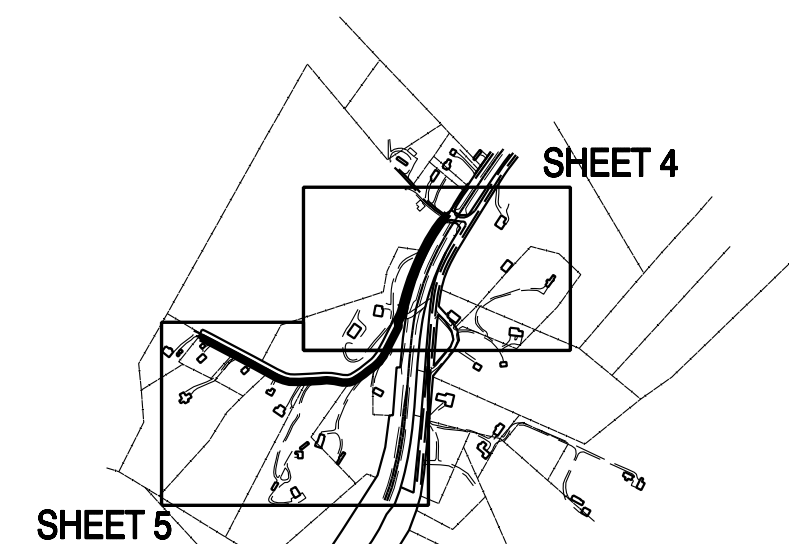
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JLD	RGC	N.T.S.	NO. 2
DRAWN BY	DATE	FILE NO.	OF
JLD	05/24/2024	18706	19 SHEETS



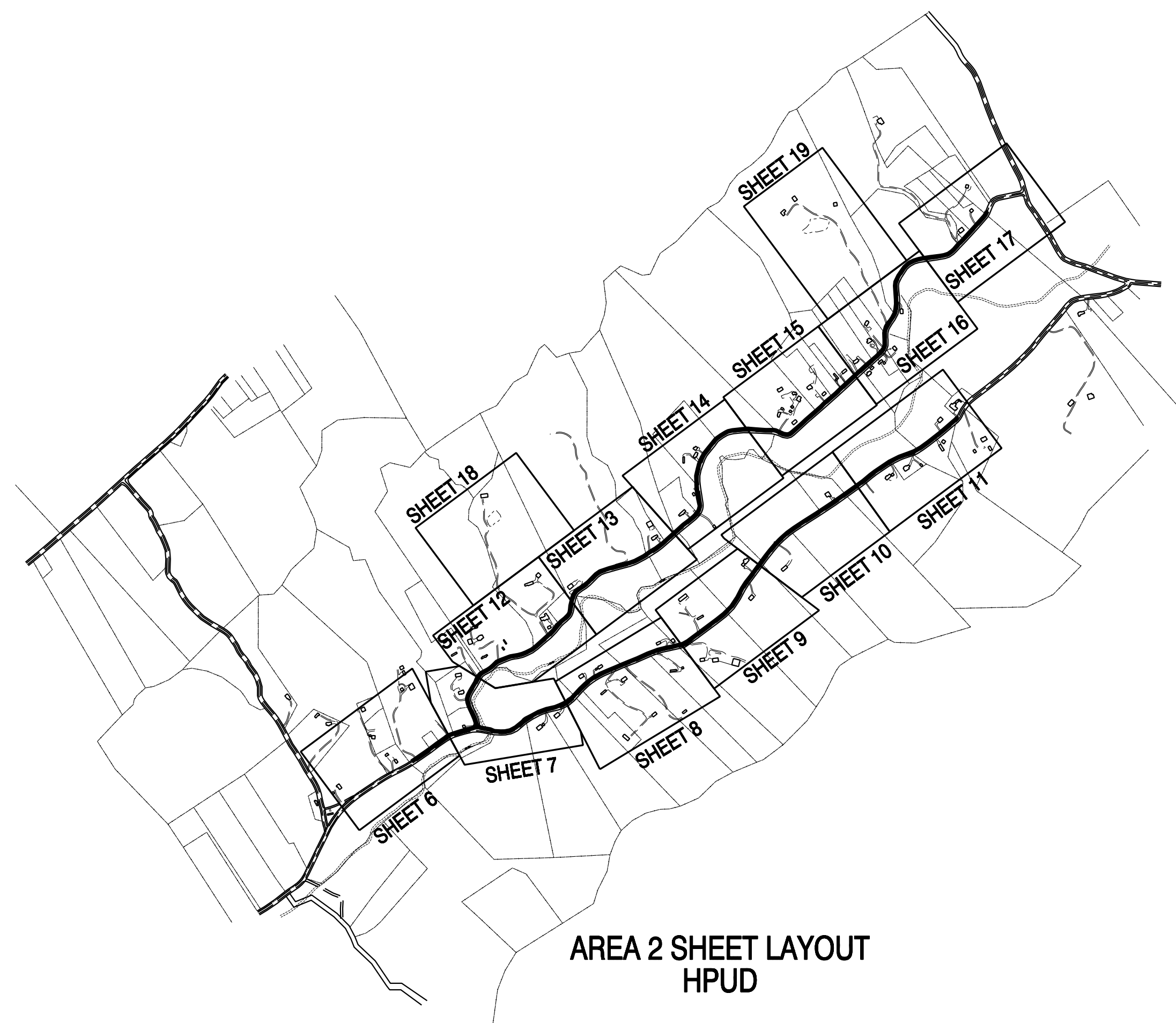
ACWA - AREA 1 - LOCATION MAP



HPUD - AREA 2 - LOCATION MAP



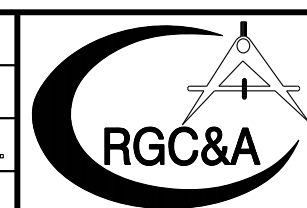
AREA 1 SHEET LAYOUT
ACWA



AREA 2 SHEET LAYOUT
HPUD

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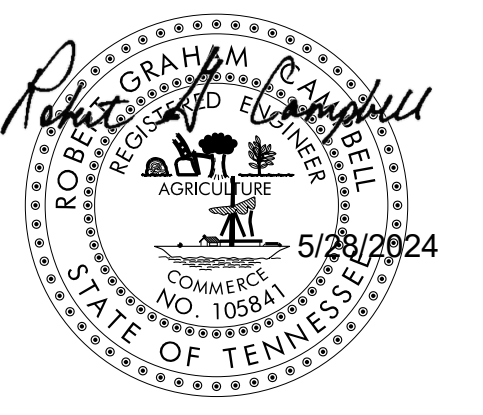


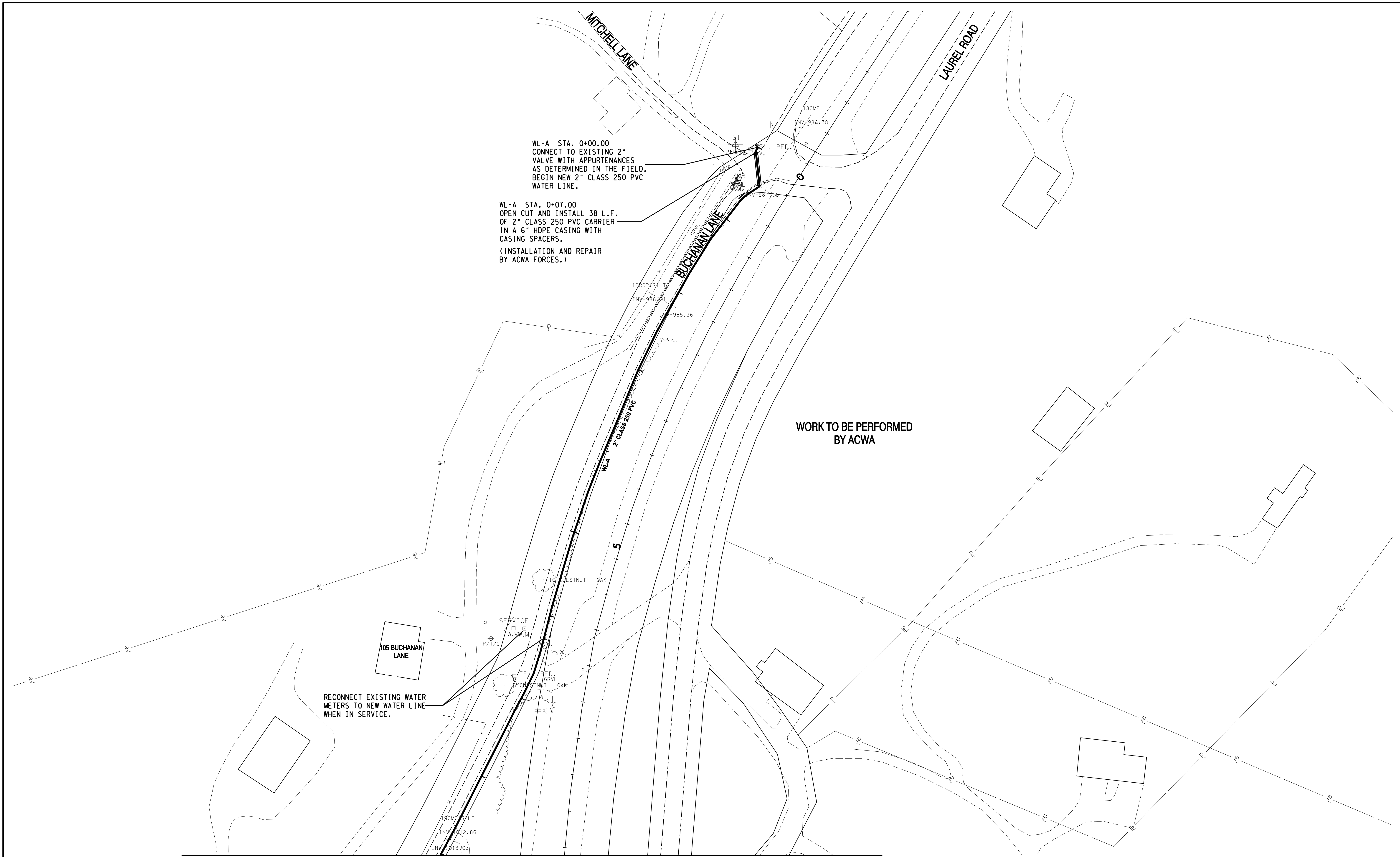
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ANDERSON COUNTY WATER AUTHORITY
HALLSDALE POWELL UTILITY DISTRICT

2020 CDBG WATER LINE EXTENSION
LOCATION MAPS & SHEET LAYOUT

DESIGNED BY JLD	CHECKED BY RGC	SCALE N.T.S.	SHEET NO. 3
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS





WL-A STA. 0+00.00
 CONNECT TO EXISTING 2"
 VALVE WITH APPURTENANCES
 AS DETERMINED IN THE FIELD.
 BEGIN NEW 2" CLASS 250 PVC
 WATER LINE.

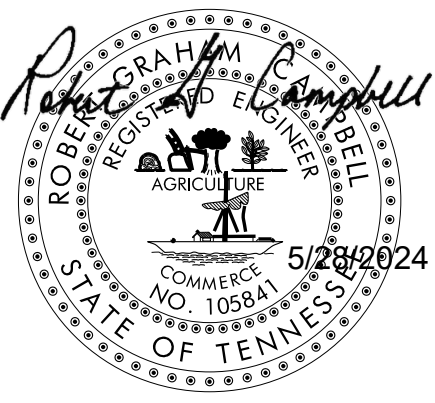
WL-A STA. 0+07.00
 OPEN CUT AND INSTALL 38 L.F.
 OF 2" CLASS 250 PVC CARRIER
 IN A 6" HDPE CASING WITH
 CASING SPACERS.
 (INSTALLATION AND REPAIR
 BY ACWA FORCES.)

WORK TO BE PERFORMED
 BY ACWA

RECONNECT EXISTING WATER
 METERS TO NEW WATER LINE
 WHEN IN SERVICE.

MATCHLINE WL-A STA. 9+00 SHEET 5

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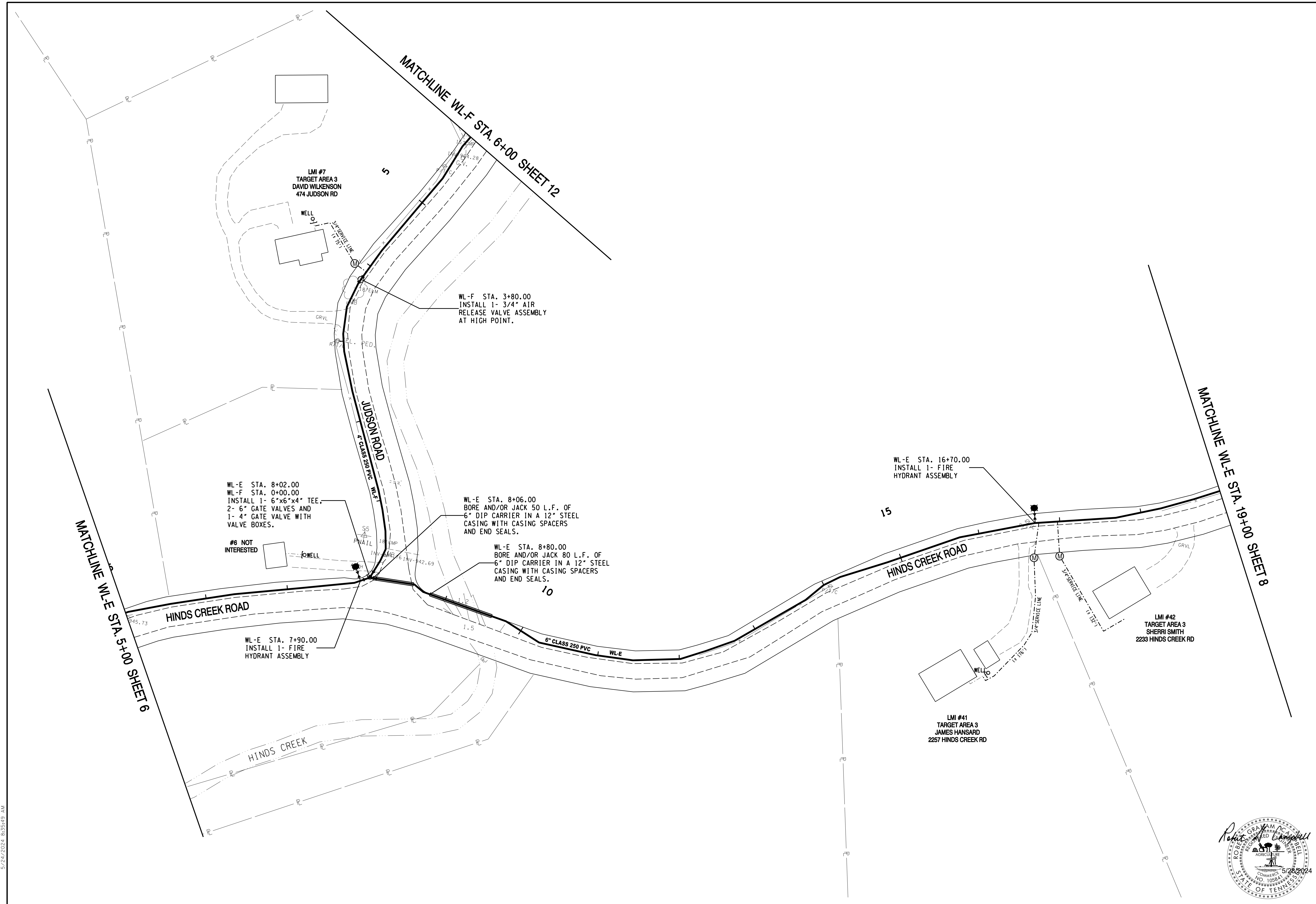
NO.	DATE	DESCRIPTION	BY	CKD.
1	12/06/23	CHANGED 2" DIP TO 2" CLASS 250 PVC AND 6" HDPE CASING	JLD	MEM


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 KNOXVILLE, TENNESSEE

ANDERSON COUNTY WATER AUTHORITY
 ANDERSON COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
 BUCHANAN LANE

DESIGNED BY JLD	CHECKED BY RGC	SCALE 1" = 50'	SHEET NO. 4
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS



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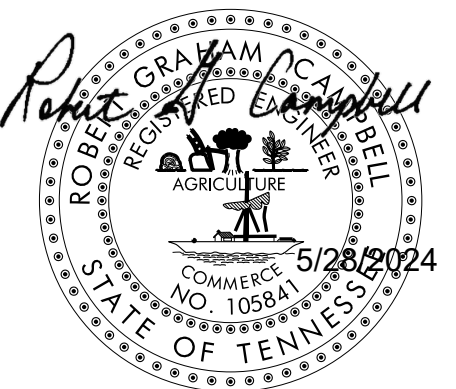
ROBERT G. CAMPBELL & ASSOC., L.P.
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 KNOXVILLE, TENNESSEE

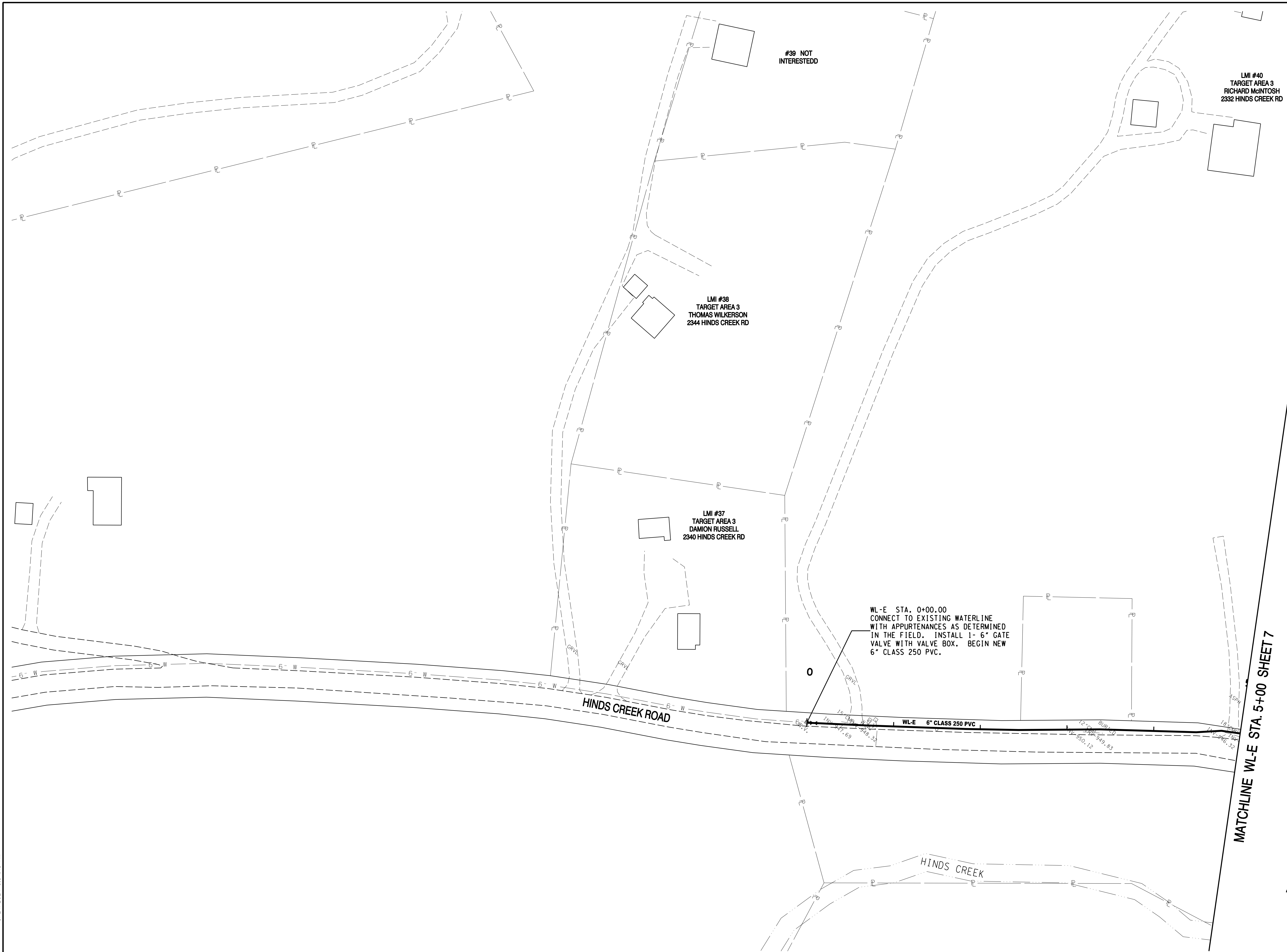
HALLSDALE POWELL UTILITY DISTRICT
 KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
HINDS CREEK RD. & JUDSON RD.

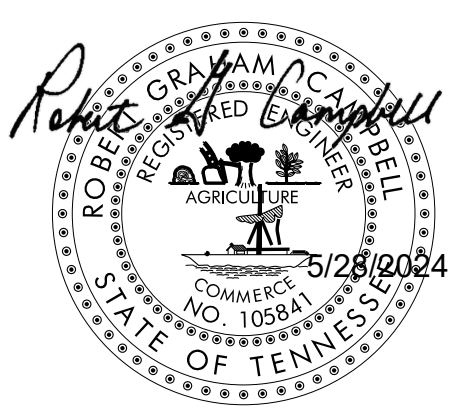
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DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706

SHEET NO. **7**
 OF 19 SHEETS





MATCHLINE WL-E STA. 5+00 SHEET 7



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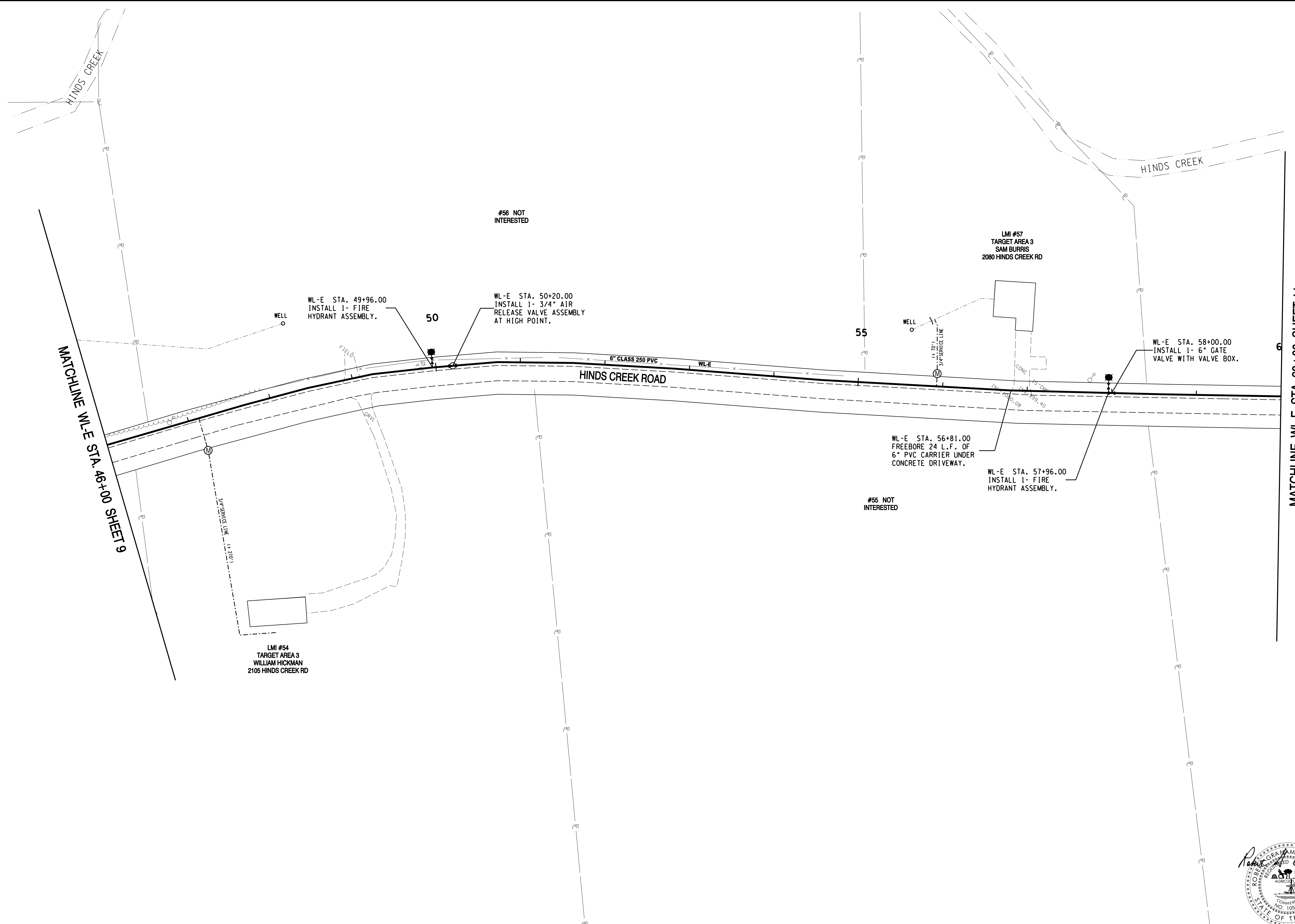
NO.	DATE	DESCRIPTION	BY	CKD.
REVISIONS				


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HALLSDALE POWELL UTILITY DISTRICT
 KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
HINDS CREEK ROAD

DESIGNED BY JLD	CHECKED BY RGC	SCALE 1" = 50'	SHEET NO. 6
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS



MATCHLINE W-E STA. 46+00 SHEET 9

MATCHLINE W-E STA. 60+00 SHEET 11

LMI #54
TARGET AREA 3
WILLIAM HICKMAN
2106 HINDS CREEK RD

LMI #57
TARGET AREA 3
SAM BURRIS
2080 HINDS CREEK RD

WL-E STA. 49+96.00
INSTALL 1- FIRE
HYDRANT ASSEMBLY.

WL-E STA. 50+20.00
INSTALL 1- 3/4\"/>

WL-E STA. 56+81.00
FREEBORE 24 L.F. OF
6\"/>

WL-E STA. 57+96.00
INSTALL 1- FIRE
HYDRANT ASSEMBLY.

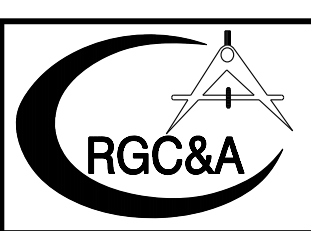
WL-E STA. 58+00.00
INSTALL 1- 6\"/>

#56 NOT INTERESTED

#55 NOT INTERESTED

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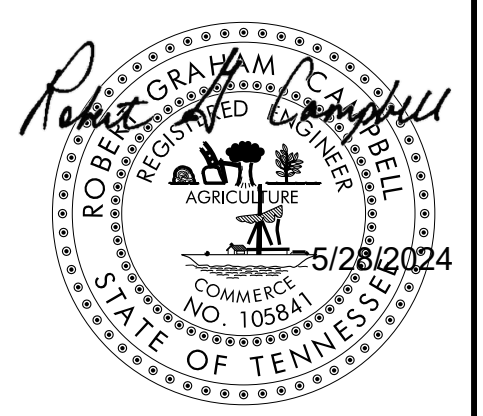


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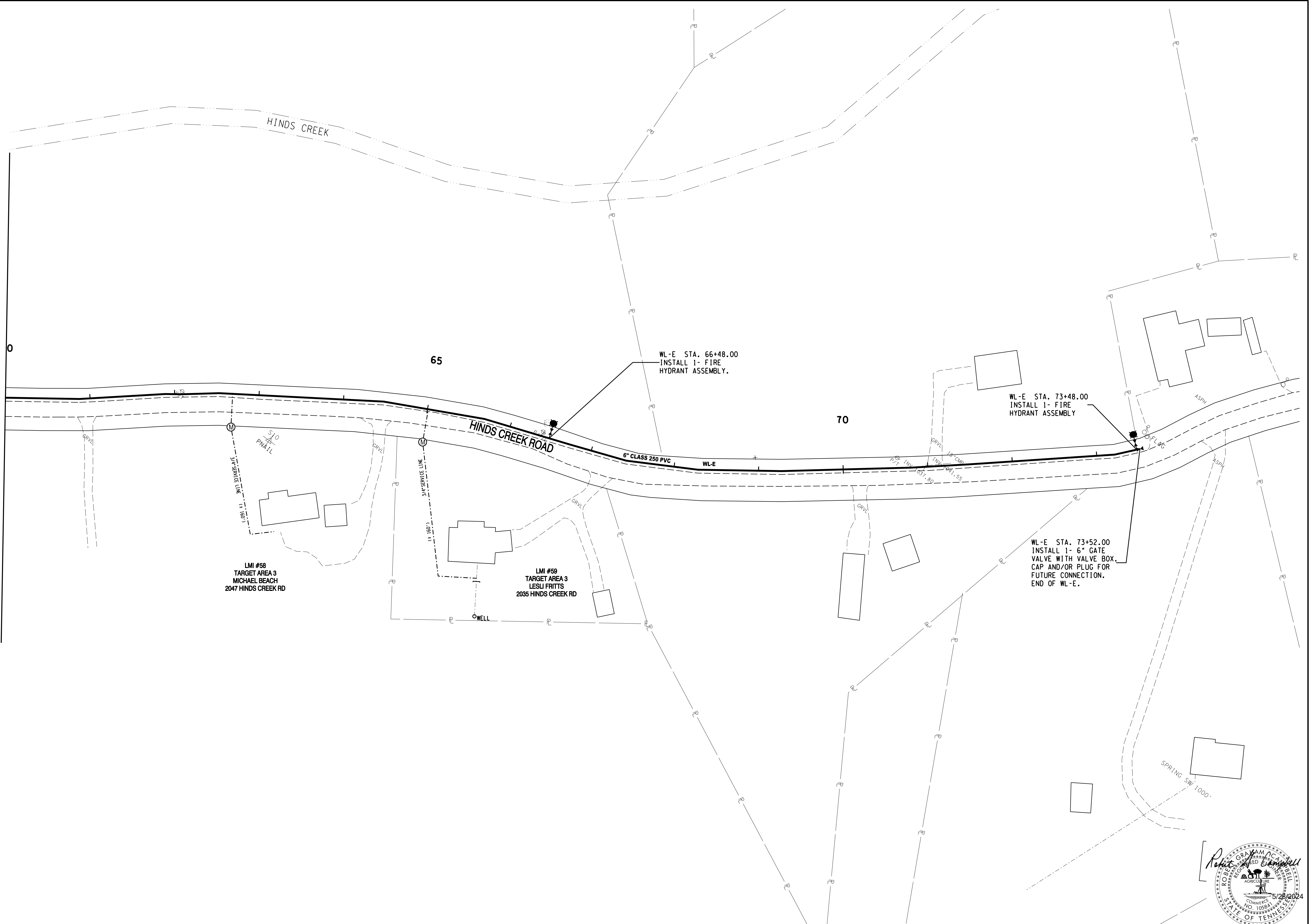
HALLSDALE POWELL UTILITY DISTRICT
KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
HINDS CREEK ROAD

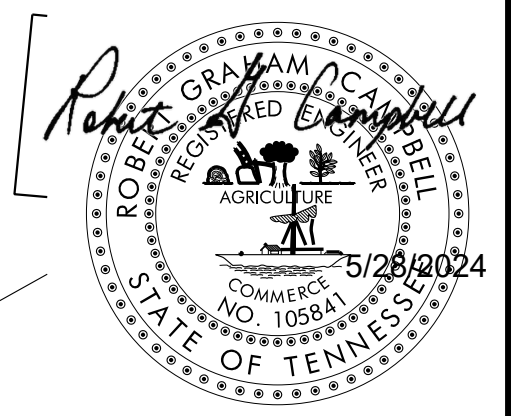
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DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS



MATCHLINE WL-E STA. 60+00 SHEET 10



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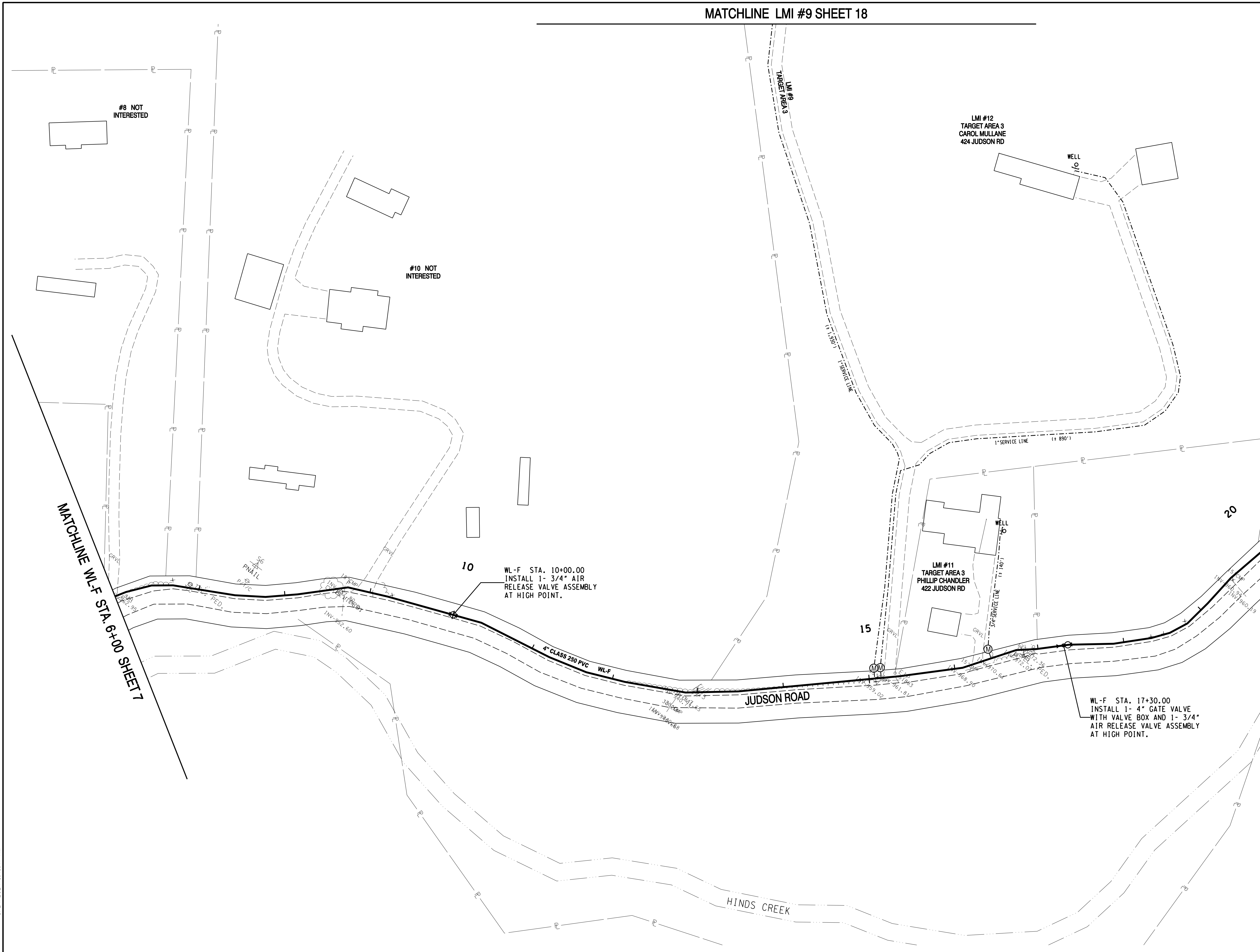
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HALLSDALE POWELL UTILITY DISTRICT
 KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
HINDS CREEK ROAD

DESIGNED BY JLD	CHECKED BY RGC	SCALE 1" = 50'	SHEET NO. 11
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS



MATCHLINE WL-F STA. 6+00 SHEET 7

MATCHLINE WL-F STA. 20+00 SHEET 13

#8 NOT INTERESTED

#10 NOT INTERESTED

LMI #12
TARGET AREA 3
CAROL MULLANE
424 JUDSON RD

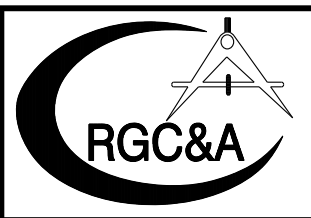
LMI #11
TARGET AREA 3
PHILIP CHANDLER
422 JUDSON RD

10
WL-F STA. 10+00.00
INSTALL 1- 3/4\"/>

WL-F STA. 17+30.00
INSTALL 1- 4\"/>

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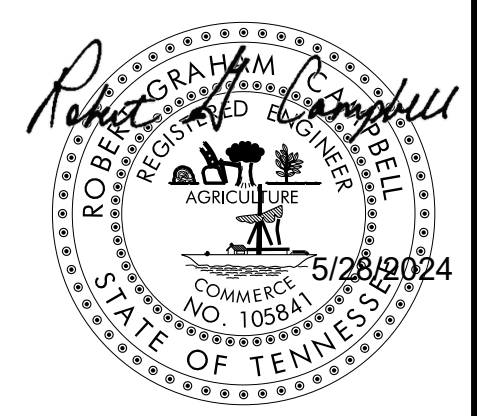


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HALLSDALE POWELL UTILITY DISTRICT
KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
JUDSON ROAD

DESIGNED BY JLD	CHECKED BY RGC	SCALE 1" = 50'	SHEET NO. 12
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS



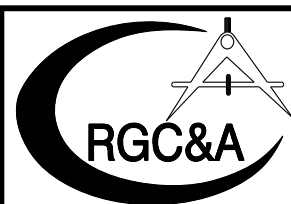
MATCHLINE WL-F STA. 20+00 SHEET 12



MATCHLINE WL-F STA. 34+00 SHEET 14

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REVISIONS				



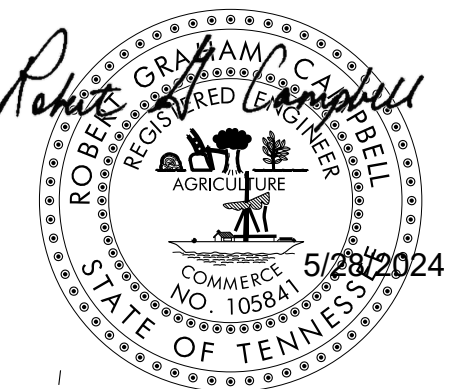
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 KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
JUDSON ROAD

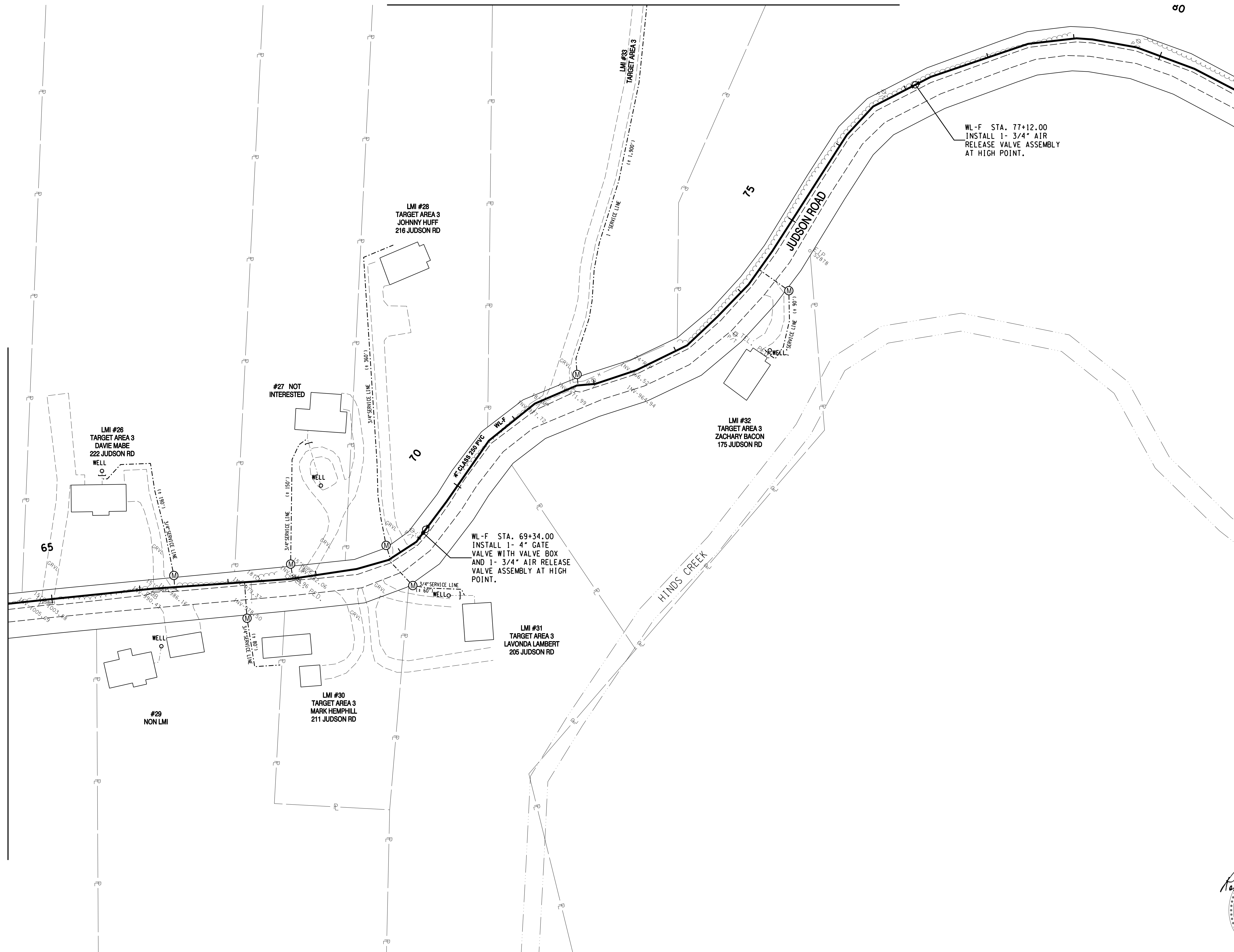
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DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706

SHEET NO.	13
OF	19



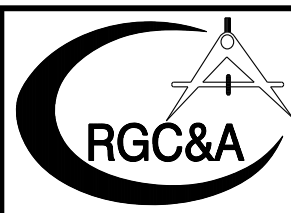
MATCHLINE WL-F STA. 64+50 SHEET 15

MATCHLINE WL-F STA. 81+00 SHEET 17



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NO.	DATE	DESCRIPTION	BY	CKD.
REVISIONS				



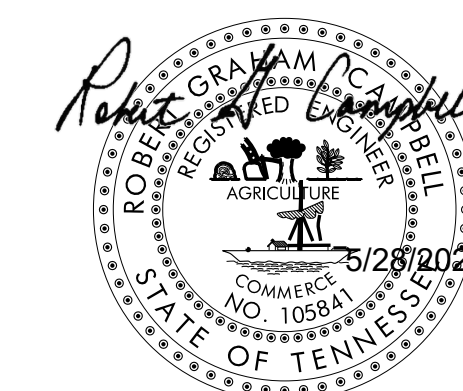
ROBERT G. CAMPBELL & ASSOC., L.P.
CONSULTING ENGINEERS
KNOXVILLE, TENNESSEE

HALLSDALE POWELL UTILITY DISTRICT
KNOX COUNTY, TENNESSEE

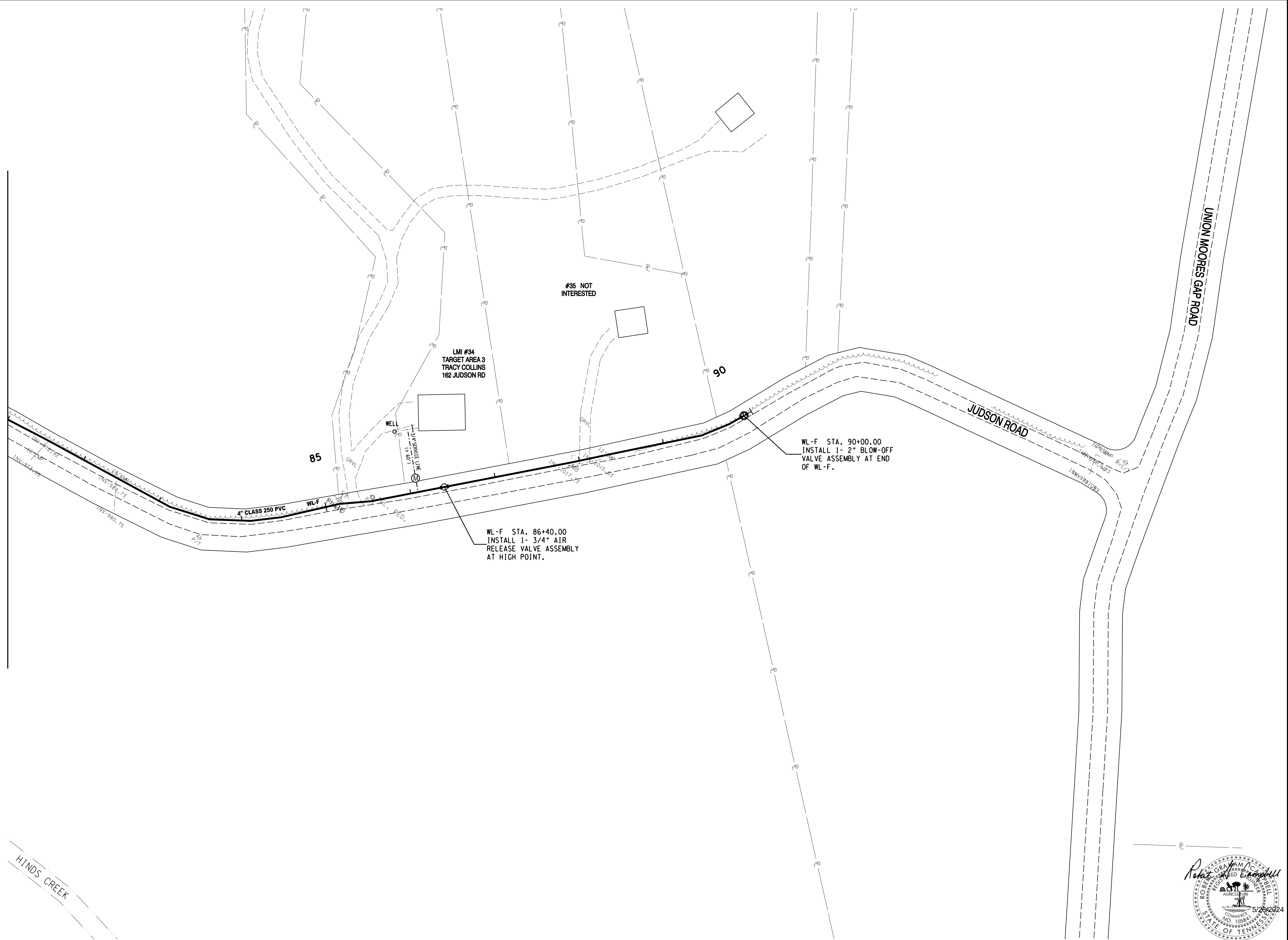
2020 CDBG WATER LINE EXTENSION
JUDSON ROAD

DESIGNED BY JLD	CHECKED BY RGC	SCALE 1" = 50'
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706

SHEET NO.	16
OF	19



MATCHLINE WL-F STA. 81+00 SHEET 16



HINDS CREEK



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NO.	DATE	DESCRIPTION	BY	CKD.
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 KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
JUDSON ROAD

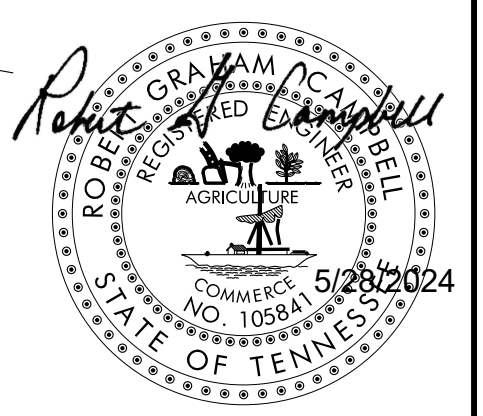
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DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS

MATCHLINE LMI #33 SHEET 16

LMI #33
TARGET AREA 3
MIKE BELL
198 JUDSON RD

WELL

1" SERVICE LINE
(# 1,900')



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NO.	DATE	DESCRIPTION	BY	CKD.
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KNOXVILLE, TENNESSEE

HALLSDALE POWELL UTILITY DISTRICT
KNOX COUNTY, TENNESSEE

2020 CDBG WATER LINE EXTENSION
LMI #33 198 JUDSON ROAD

DESIGNED BY JLD	CHECKED BY RGC	SCALE 1" = 50'	SHEET NO. 19
DRAWN BY JLD	DATE 05/24/2024	FILE NO. 18706	OF 19 SHEETS