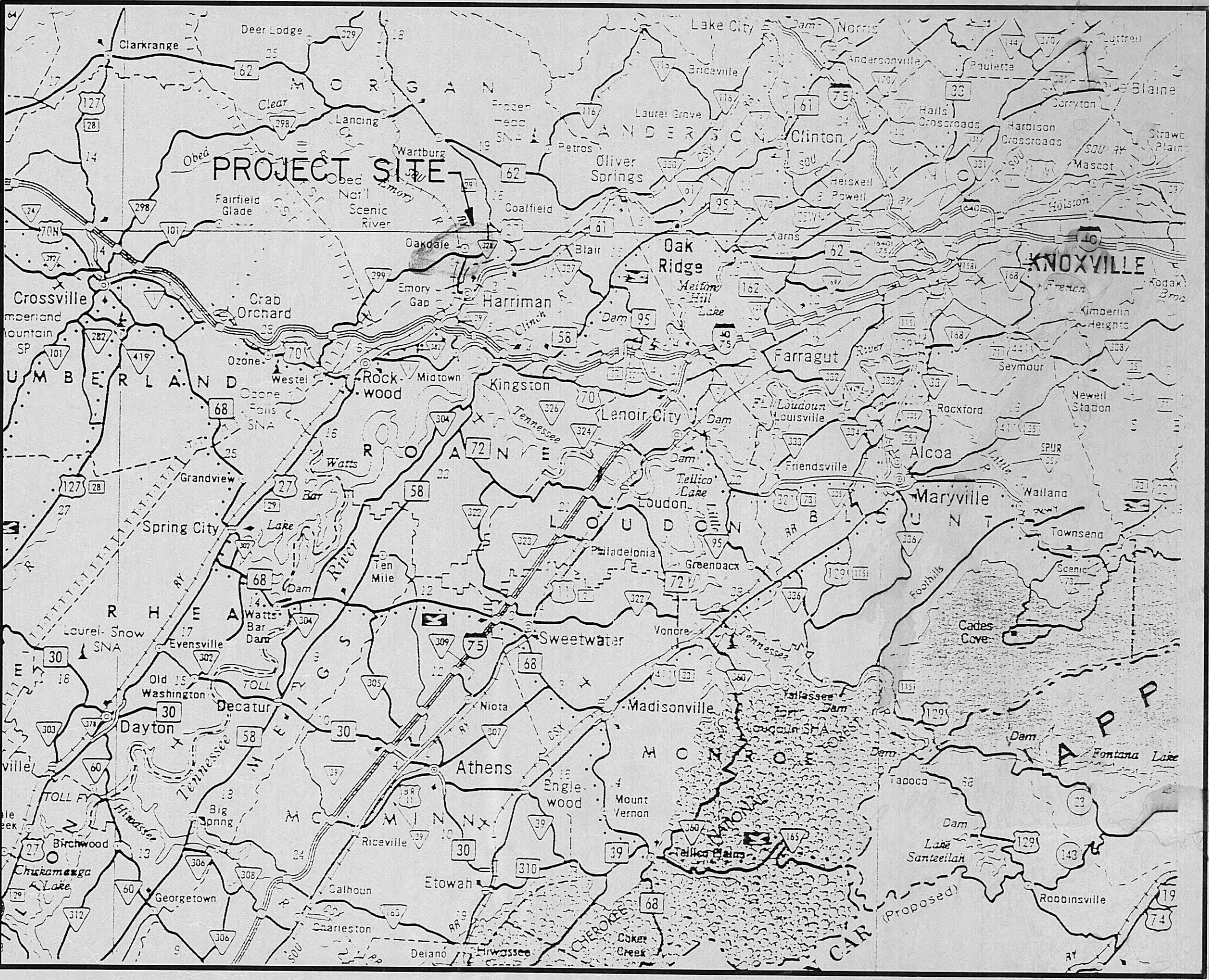


TOWN OF OAKDALE, TENNESSEE
WOLFE BRANCH UTILITY DISTRICT

WATER LINE REPLACEMENT - PHASE 3

<u>TITLE</u>	<u>DRAWING INDEX</u>	<u>DRAWING NO.</u>
TITLE SHEET	-----	91017-1
GENERAL PLAN	-----	91017-2
WATER LINE PLAN DRAWINGS	-----	91017-3 THRU. 12
WATER LINE PIPING DETAILS	-----	91017-13



LOCATION MAP

SCALE: 1"= 7 MILES

TOWN OF OAKDALE, TENNESSEE

JEANETTE POWERS, MAYOR
ROY SHELTON, ALDERMAN
RACHEL LAND, ALDERMAN
GEORGE KREPS, ALDERMAN

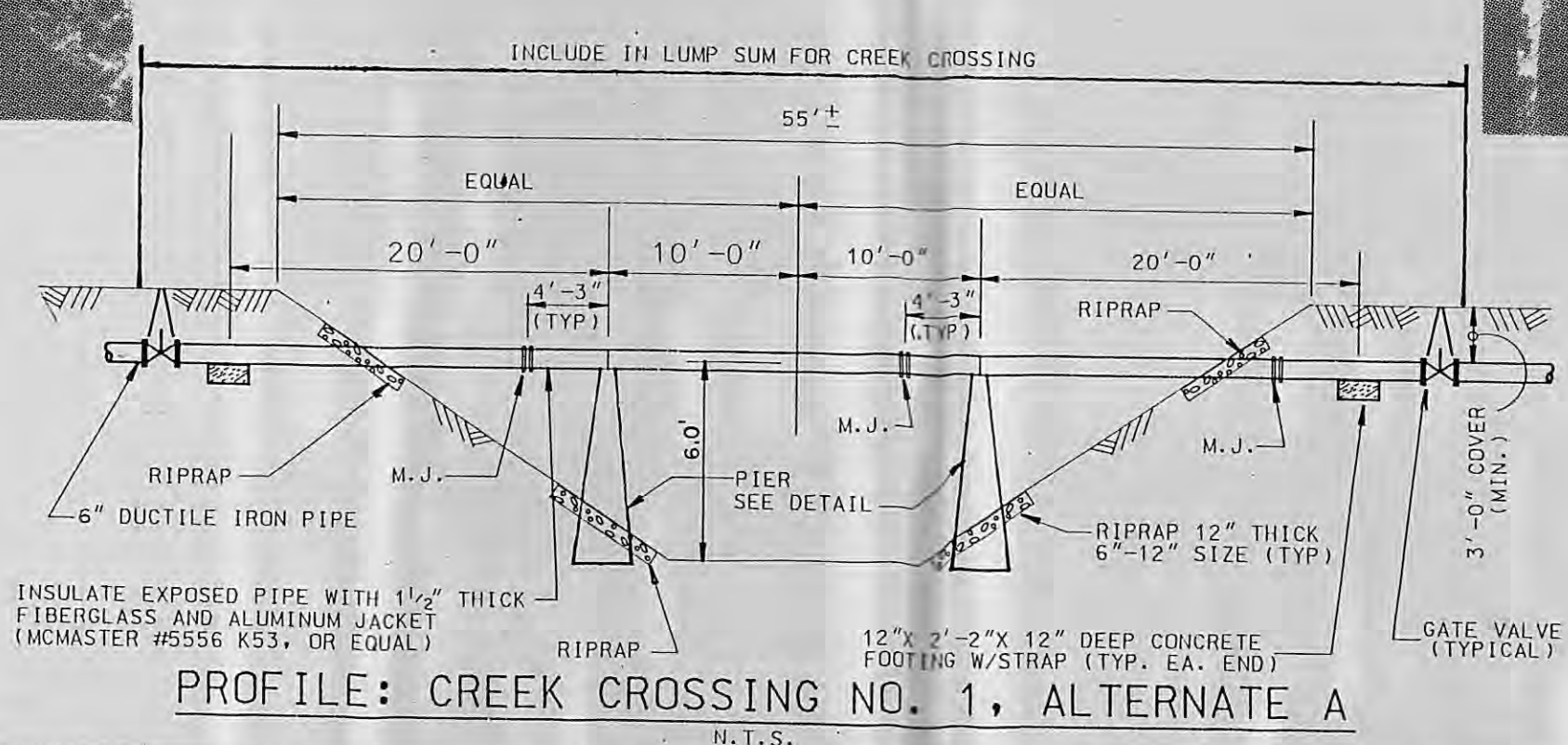
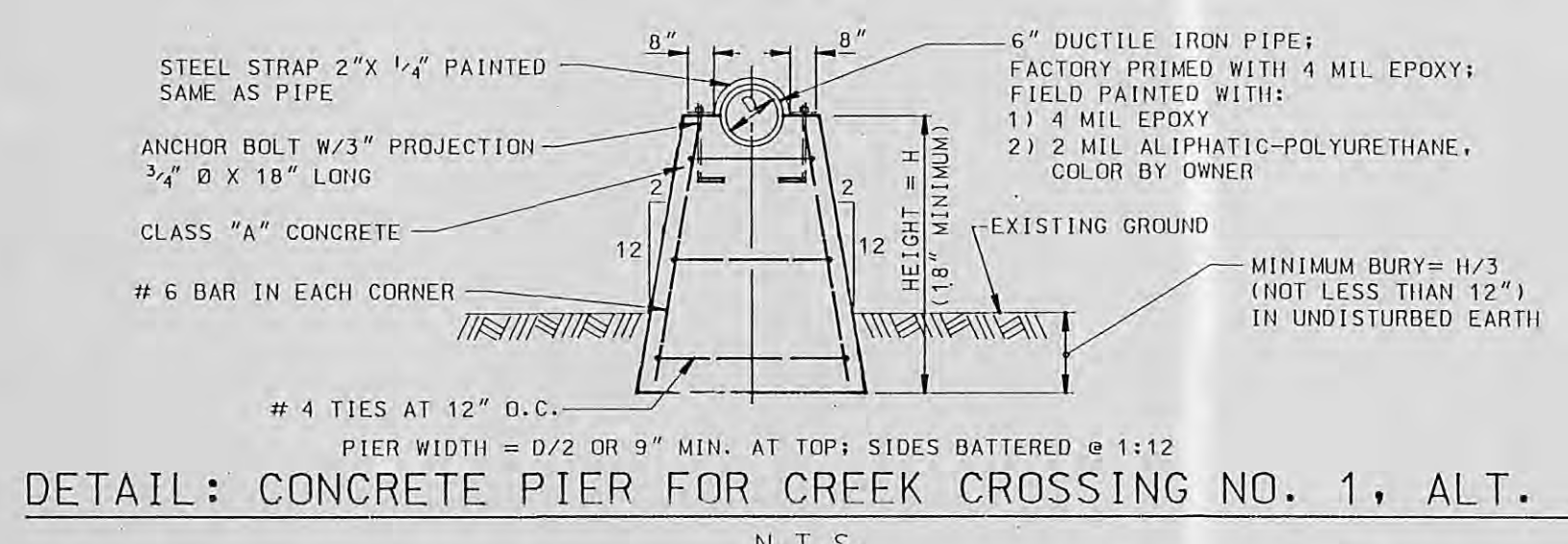
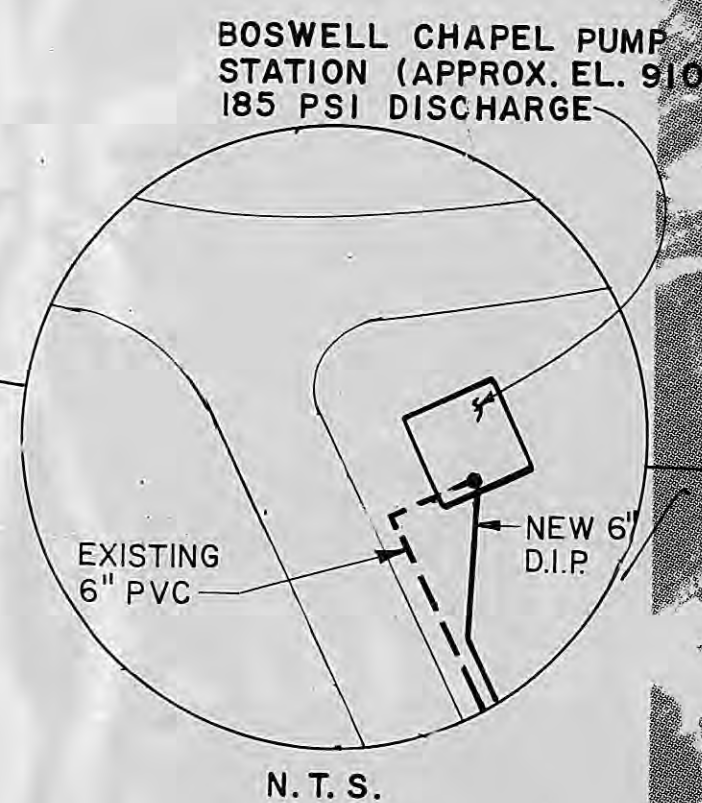
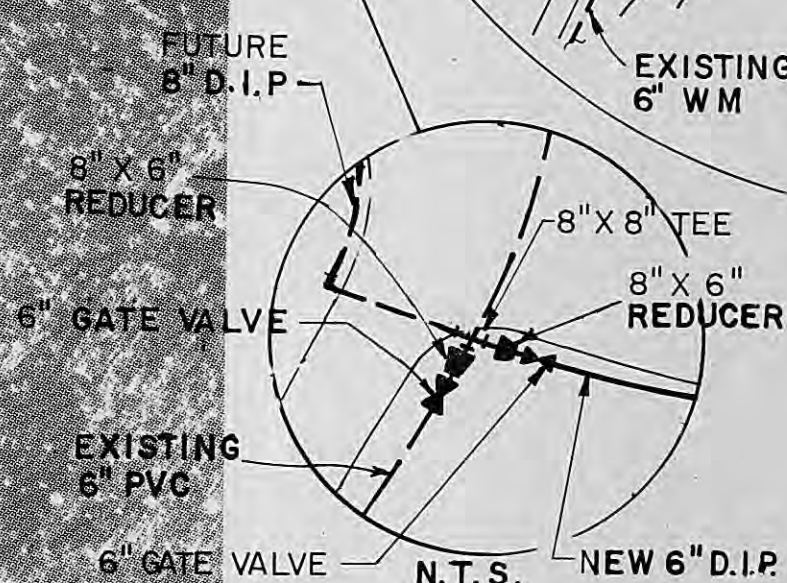
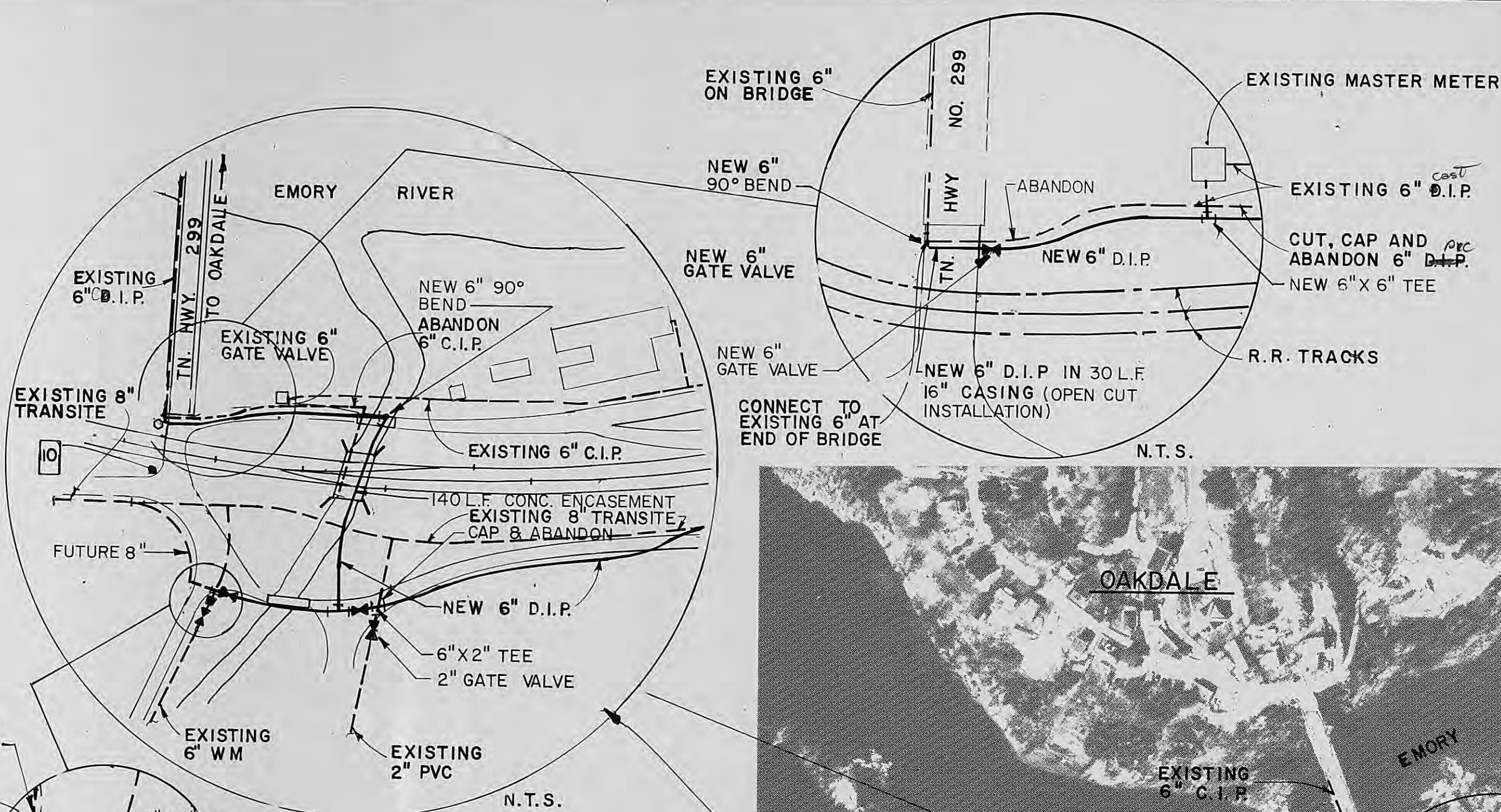
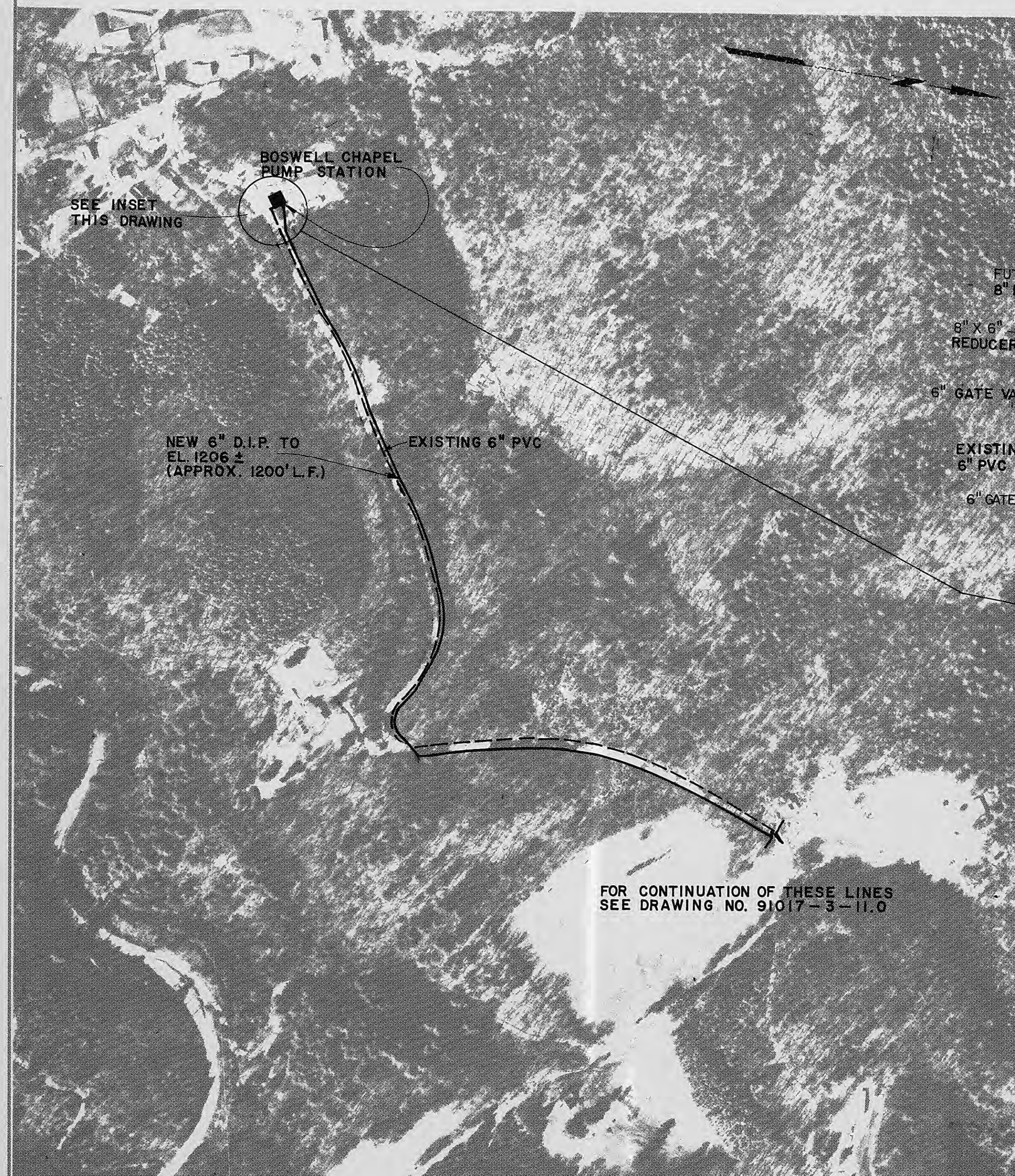
WOLFE BRANCH UTILITY DISTRICT

HOLLIS EBLE, CHAIRMAN
CLAYTON ISHAM, SECRETARY
MITCHELL JOHNSON, COMMISSIONER
DONALD PAINTER, MANAGER

PREPARED BY:

CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

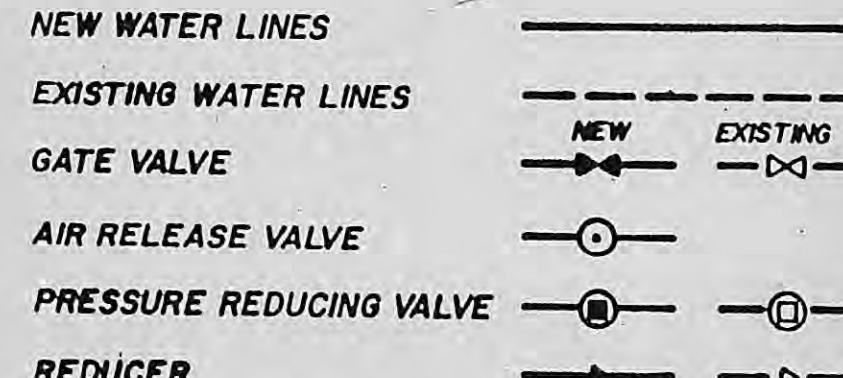
Jerome D. Hightower 9/30/01
JEROME D. HIGHTOWER, P.E. DATE
TENNESSEE LICENSE NO. 011411



SCALE: 1" = 200'

CONTINUED ON THIS DRAWING

LEGEND



DETAIL: CONCRETE PIER FOR CREEK CROSSING NO. 1, ALT. A

PROFILE: CREEK CROSSING NO. 1, ALTERNATE A

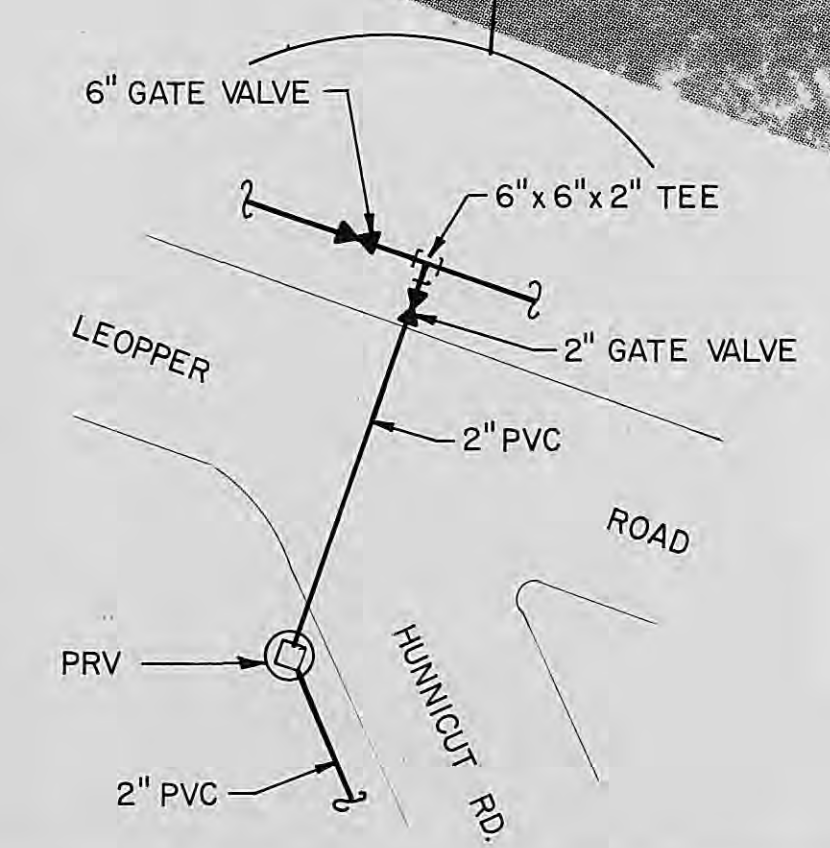
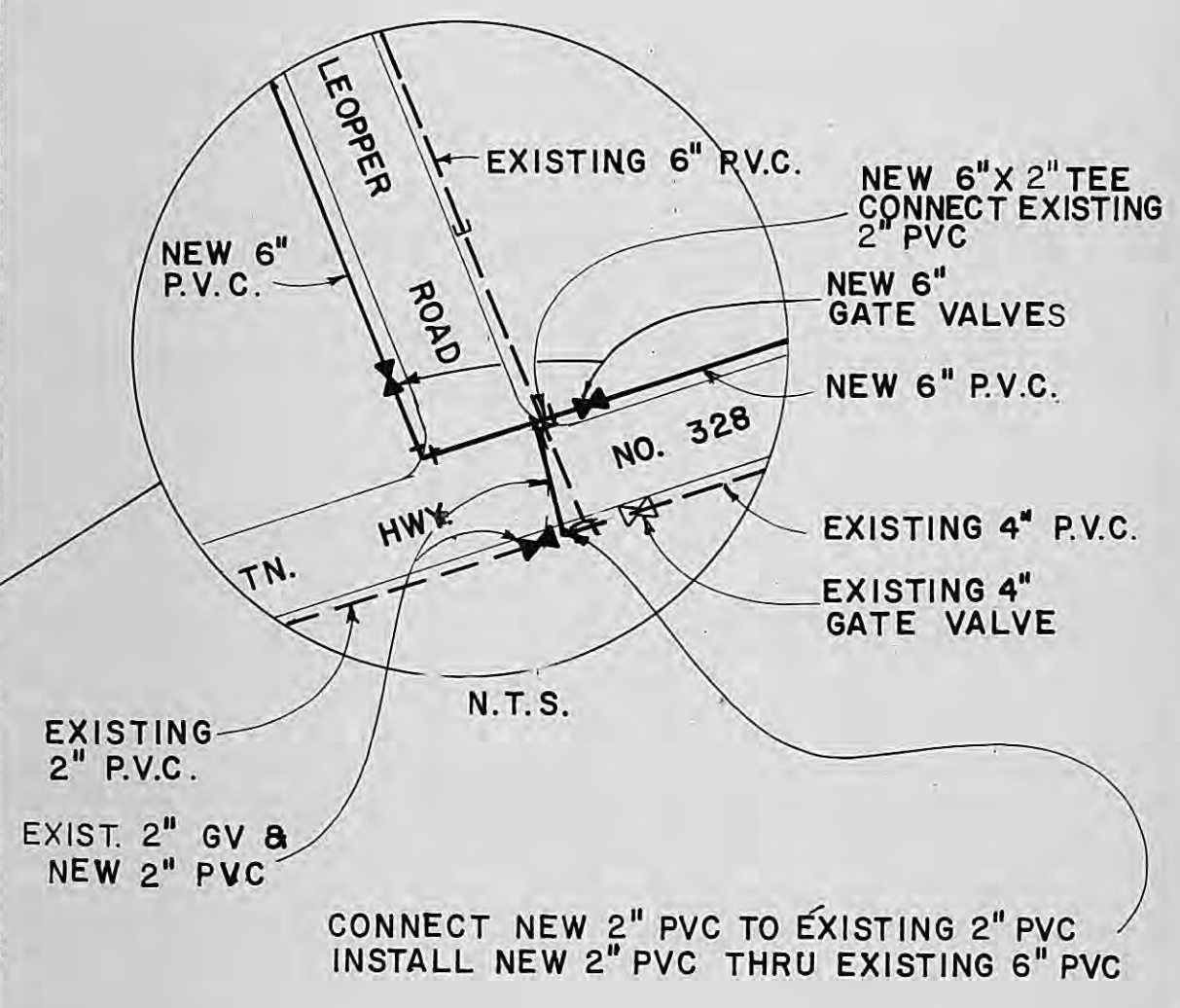
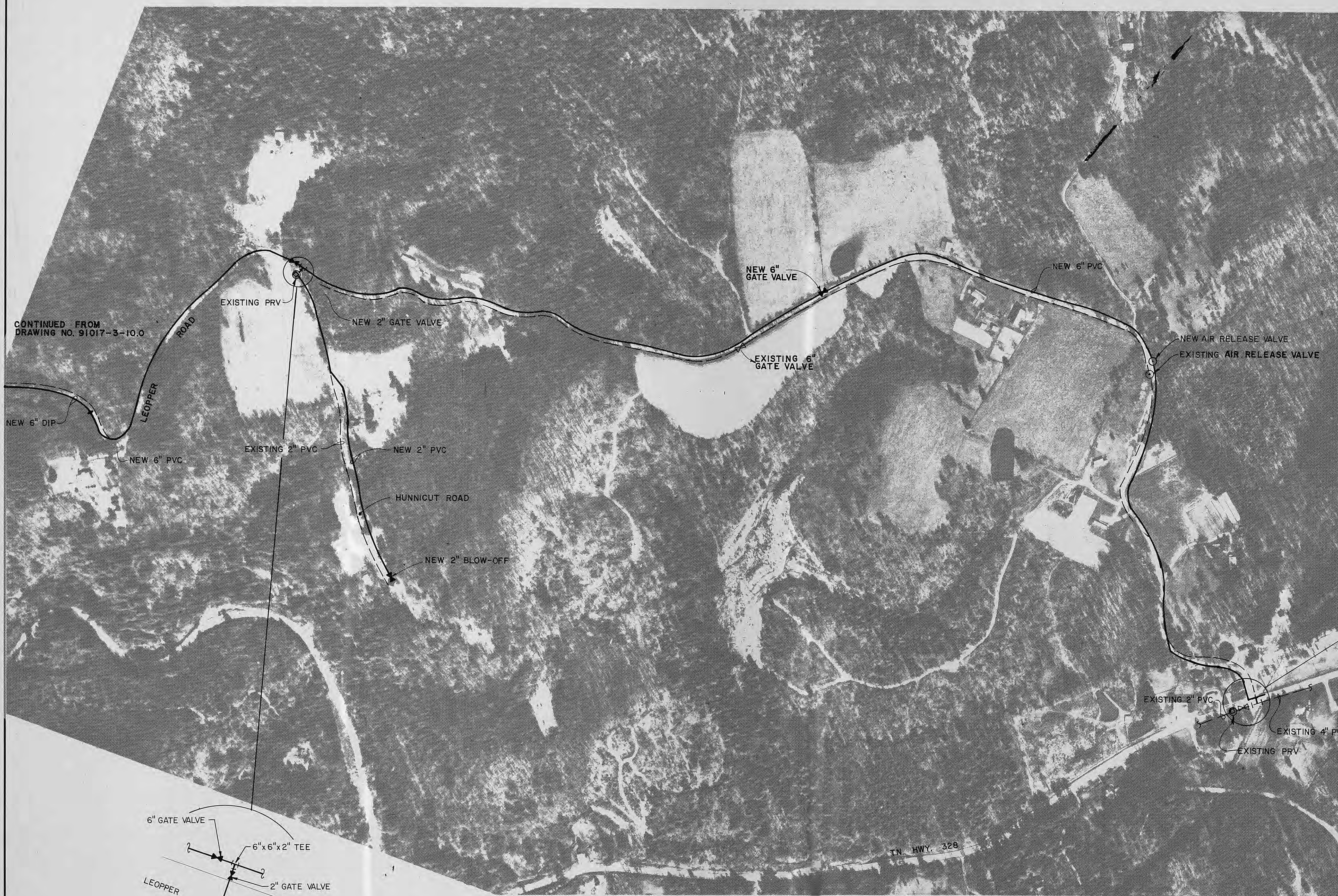
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△	104 11/91	ADDED DEDUCTIVE ALT 3
REV. NO.	RELEASED BY:	DESCRIPTION OF REVISION

DSGN: 104	9/91
DRWN:	
CHK'D:	
APPR:	

OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS PHASE 3

RAILROAD AND CREEK CROSSING
OLD GOLDSTONE HOUSE ROAD

DRAWING NO.
91017-
3-10.3



SCALE 1" = 200'



LEGEND

NEW WATER LINES	---
EXISTING WATER LINES	---
GATE VALVE	NEW: EXISTING:
AIR RELEASE VALVE	
PRESSURE REDUCING VALVE	
REDUCER	

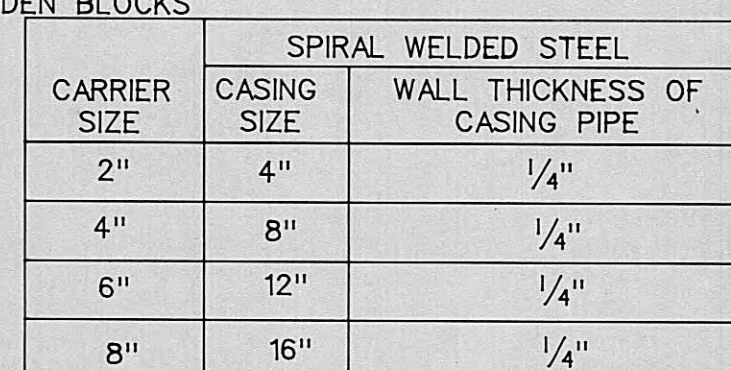
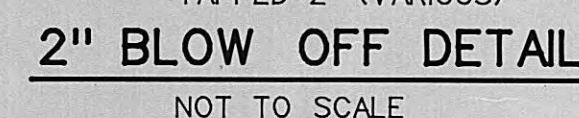
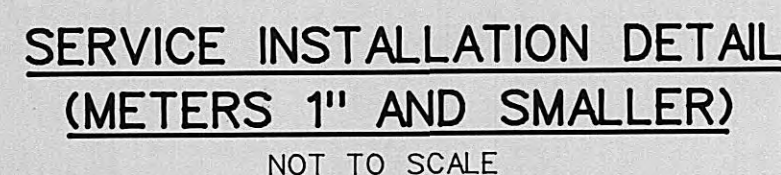
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1	J.D.H. 8/92	RECORD DRAWING
2	J.D.H. 11/91	REV. CONNECTION DETAIL AT LEOPPER & HWY 328

CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

DSGN	J.D.H. 8/91
DRWN	J.D.H. 9/91
CHK'D	J.D.H. 9/91
APPR	

OAKDALE/WOLFE BRANCH UTILITY DISTRICT WATER LINE REPLACEMENTS PHASE 3	LEOPPER ROAD HUNNICUT ROAD	DRAWING NO. 91017- 3-11.3
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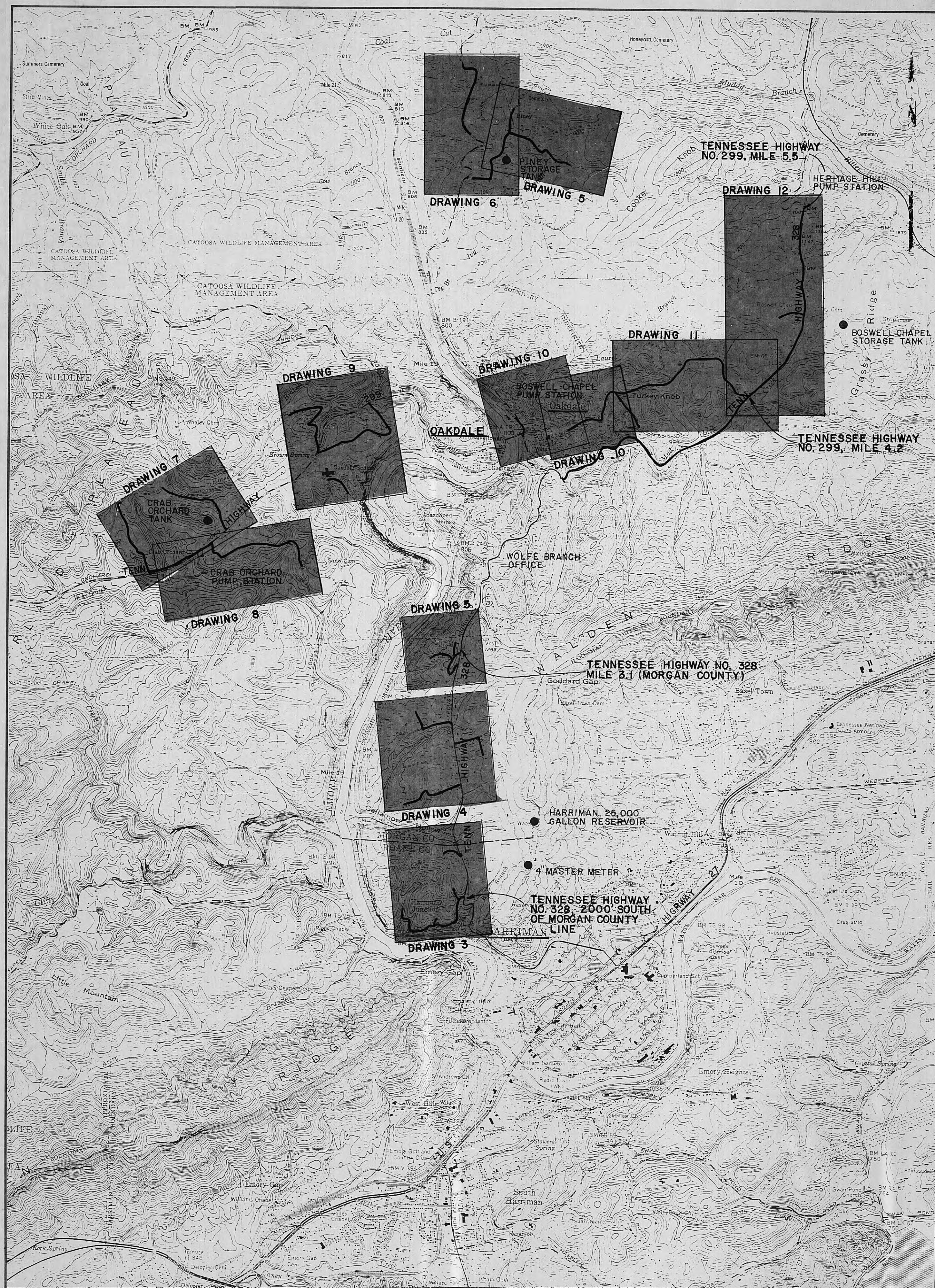
* RESTRAIN JOINT BEYOND MINIMUM LENGTH

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CHATTANOOGA, TENNESSEE

OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS

WATER LINE PIPING DETAILS 91017-13.2

DRAWING NO.



GENERAL NOTES (APPLY TO ALL DRAWINGS)

- 48 Hours prior to construction in each area, the Contractor shall notify appropriate utility companies or their agents, such as:
 - Tennessee One Call: 1-800-351-1111
 - TDOT
 - Norfolk Southern Railroad
- Exact location of existing water lines, culverts, and other utilities is shown as approximate only and may vary.
- The Contractor shall locate all water, gas, telephone, storm drainage, and other underground utilities, before proceeding with any trench excavation for pipe lines so that water lines to be installed may be located with the least conflict with existing utilities as determined by the Engineer.
- Contractor shall immediately repair or replace any existing utility lines which are damaged during construction. Existing water service shall remain uninterrupted during construction.
- Contractor shall reconnect existing service lines to new water lines. Payment will be included in the unit price for installation of service line.
- Existing water lines shall remain in service unless otherwise noted on the drawings or as directed by the Engineer.
- No additional payment shall be allowed for water lines required to be buried deeper than that for normal cover. Payment shall be included in unit price bid for pipe.
- All sod, shrubs, flowers, plantings, walls, driveways, etc., damaged during construction shall be replaced to as near original condition as possible at Contractor's expense. Grassed areas shall be restored to prior conditions in the following manner:

Areas less than 3:1 slope shall be reseeded and mulched with grasses or ground cover as outlined in the specifications. Areas greater than 3:1 slope shall be reseeded and mulched with a fabric material as outlined in the specifications. No separate payment shall be made for this work.
- Where lines cross under curbs, they shall be tunneled under the curb. No separate payment will be allowed for repairing curbs damaged or destroyed during water line construction.
- Unnecessary destruction of trees along water line installation will not be permitted. All reasonable efforts will be made by the Contractor to protect and safeguard trees.
- Any existing fences, rock walls, guardrails, etc., along the water line right-of-way are to be removed and reinstalled in their original condition (or better). No separate payment will be allowed.
- No separate payment shall be allowed for diversion of water in ditches or creek.
- When blasting for excavation of work, adequate precautions shall be used to prevent damage to surrounding property.
- Class A concrete shall be 4,000 psi minimum strength concrete containing not less than 6.2 sacks of cement per yard of concrete with a 1" maximum aggregate size and a water/cement ratio of not more than 5.5 gallons per sack of cement.
- Class B concrete shall be 3,000 psi minimum strength concrete containing not less than 5.9 sacks of cement per yard of concrete with a 1" maximum aggregate size and a water/cement ratio of not more than 7 gallons per sack of cement.
- Reinforcing steel shall be ASTM A615, Grade 60. Welded wire fabric shall be ASTM A185 with ASTM A82 cold-drawn wire. Submit reinforcing steel shop drawings to Owner.
- Compacted backfill shall be fine, sound, loose earth free from all wood, vegetable matter, debris, and other objectionable material, and having scattered clods, stones, or broken concrete less than 2" maximum dimension. Backfill shall contain optimum moisture content for compaction to 95 percent of maximum density as determined by AASHTO T-99, Method A.



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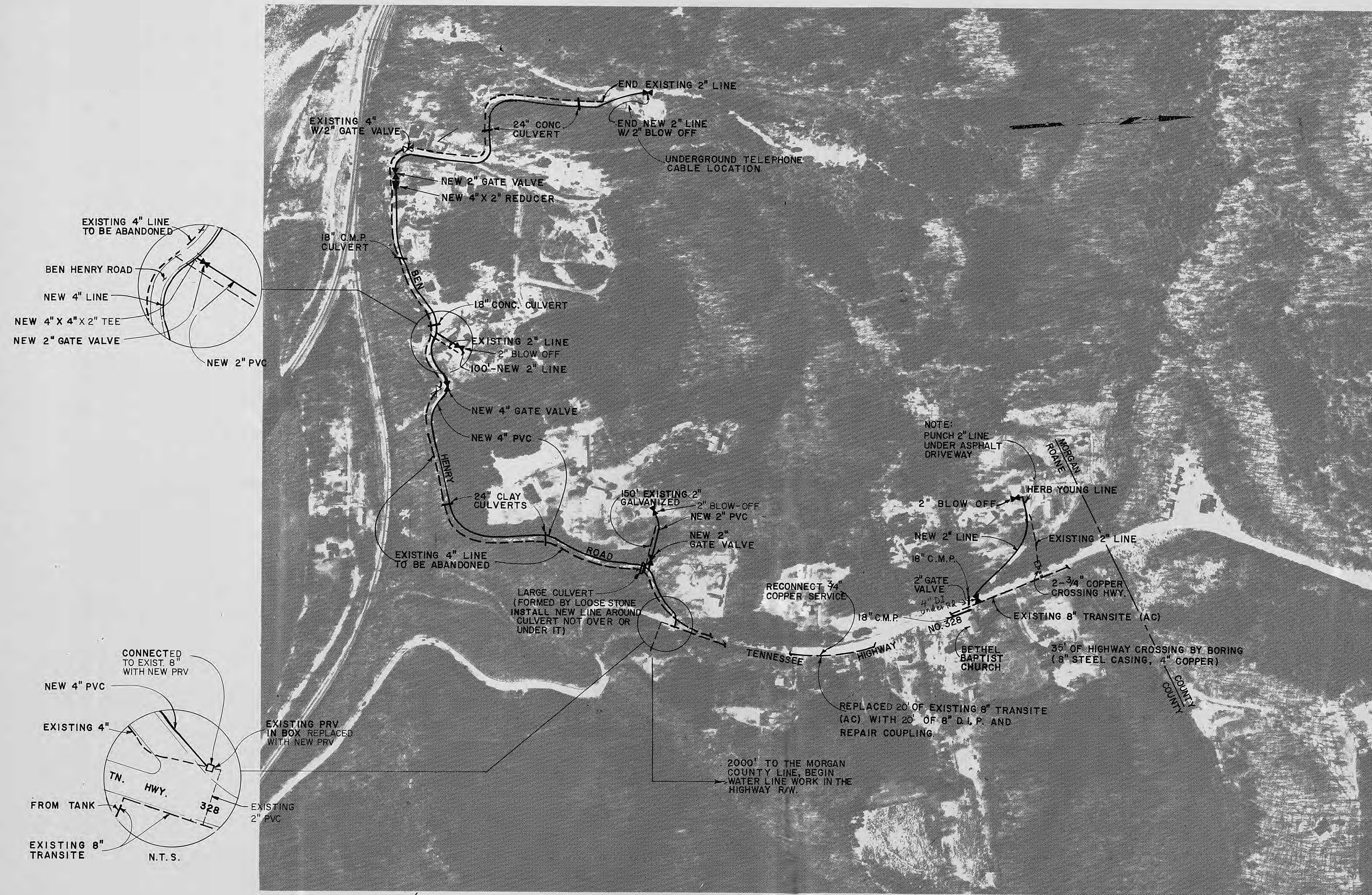
CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

DSGN:	10A	9/91
DRWN:		
CHK'D:		
APPR:		

OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS

GENERAL PLAN

DRAWING NO.
91017-
3-2.1



NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO T.D.O.T. PAVING.

LEGEND

NEW WATER LINES	---
EXISTING WATER LINES	---
GATE VALVE	NEW EXISTING
AIR RELEASE VALVE	---
PRESSURE REDUCING VALVE	---
REDUCER	---



△		
△	J.D.H. 8/92	RECORD DRAWING
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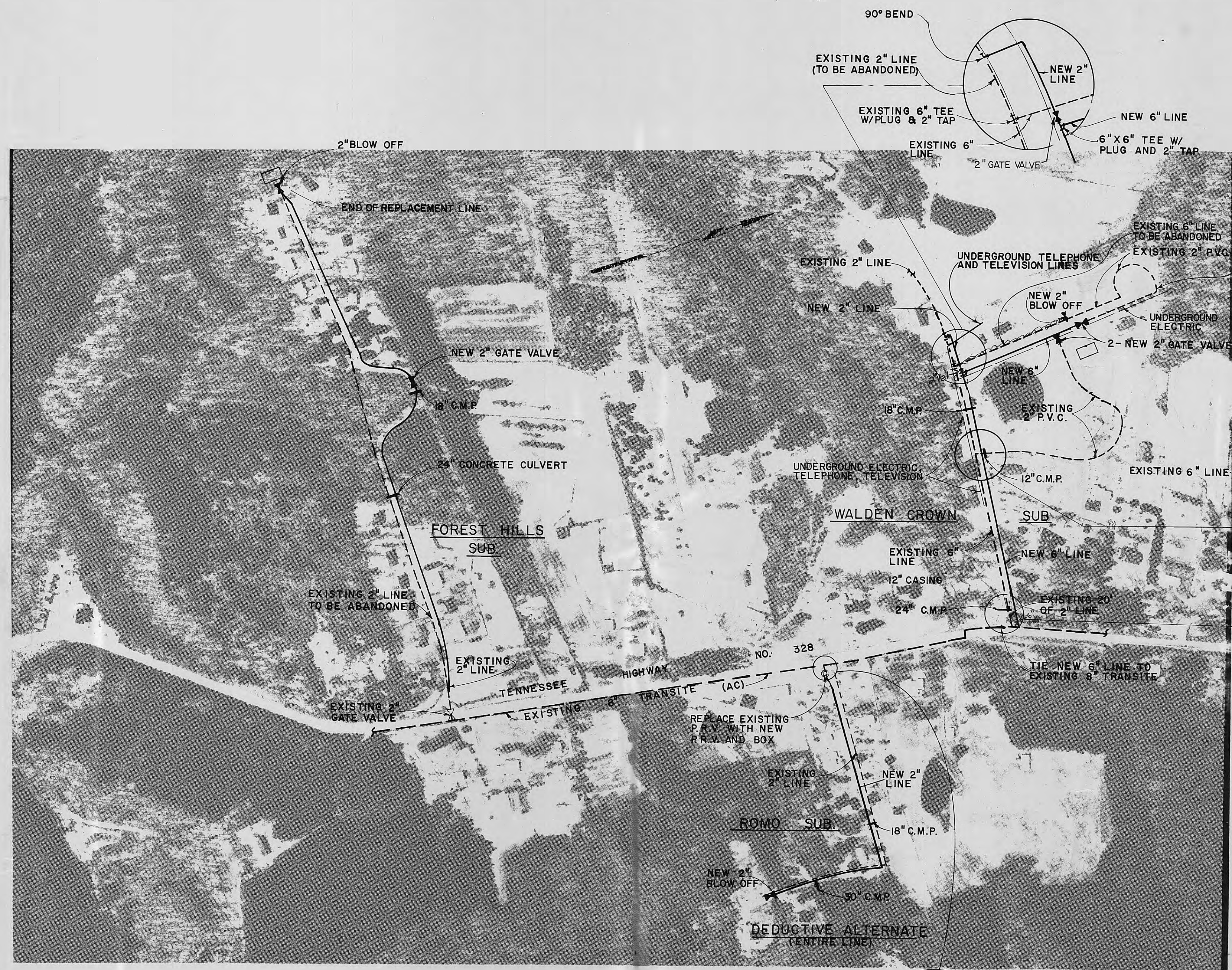
CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

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DRWN:	
CHK'D:	
APPR:	

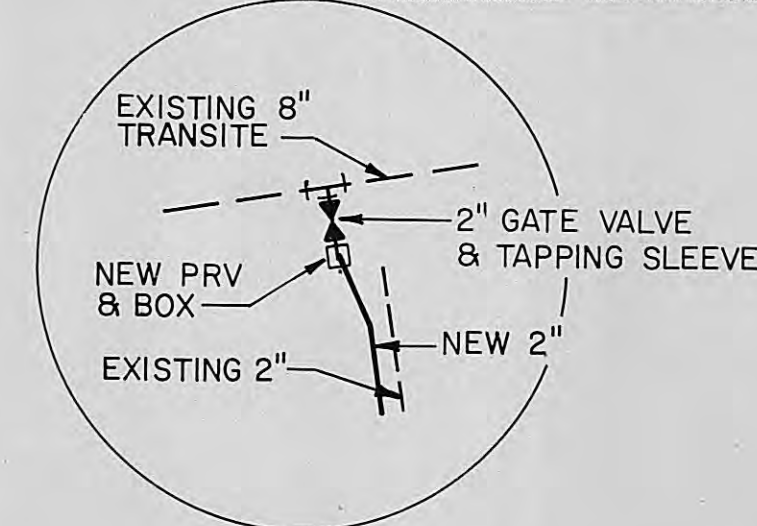
OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS PHASE 3

BEN HENRY ROAD
TENNESSEE HIGHWAY NO. 328
HERB YOUNG LINE

DRAWING NO.
91017-
3 - 3.2



SCALE: 1" = 200'



LEGEND

NEW WATER LINES	—
EXISTING WATER LINES	—
GATE VALVE	—
AIR RELEASE VALVE	—
PRESSURE REDUCING VALVE	—
REDUCER	—

REV. NO.	RELEASED BY:	DESCRIPTION OF REVISION
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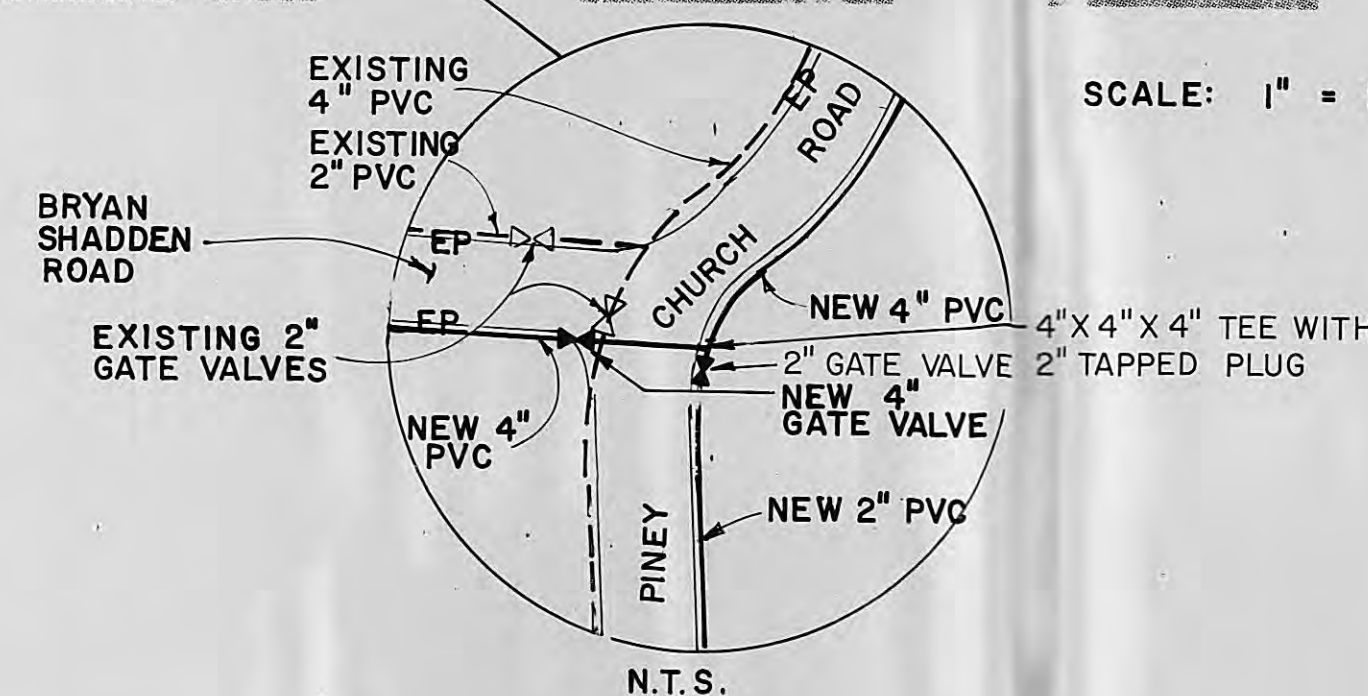
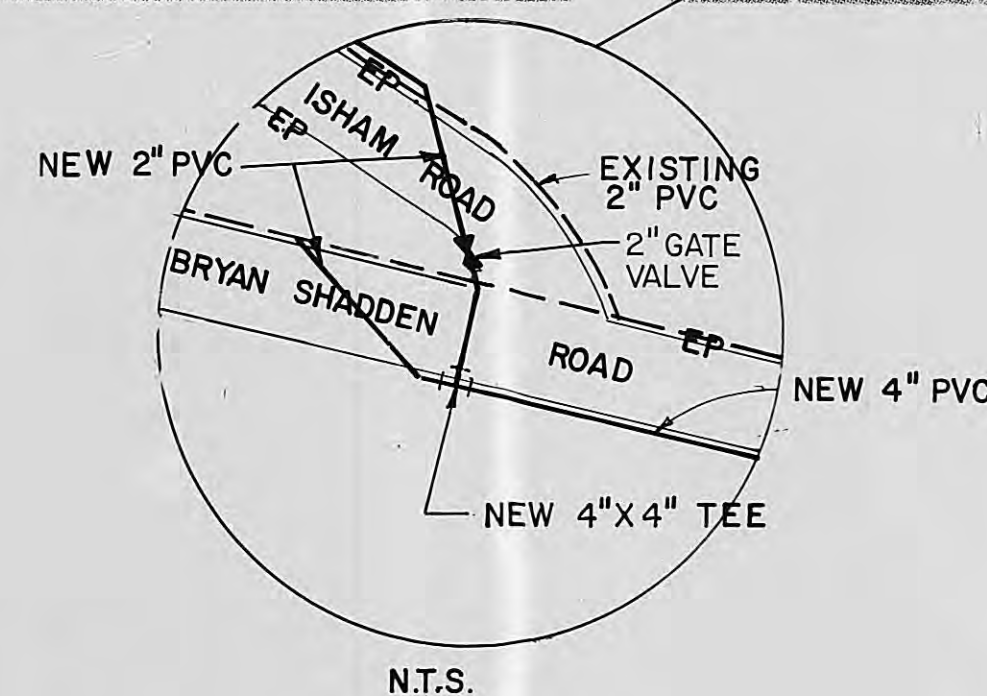
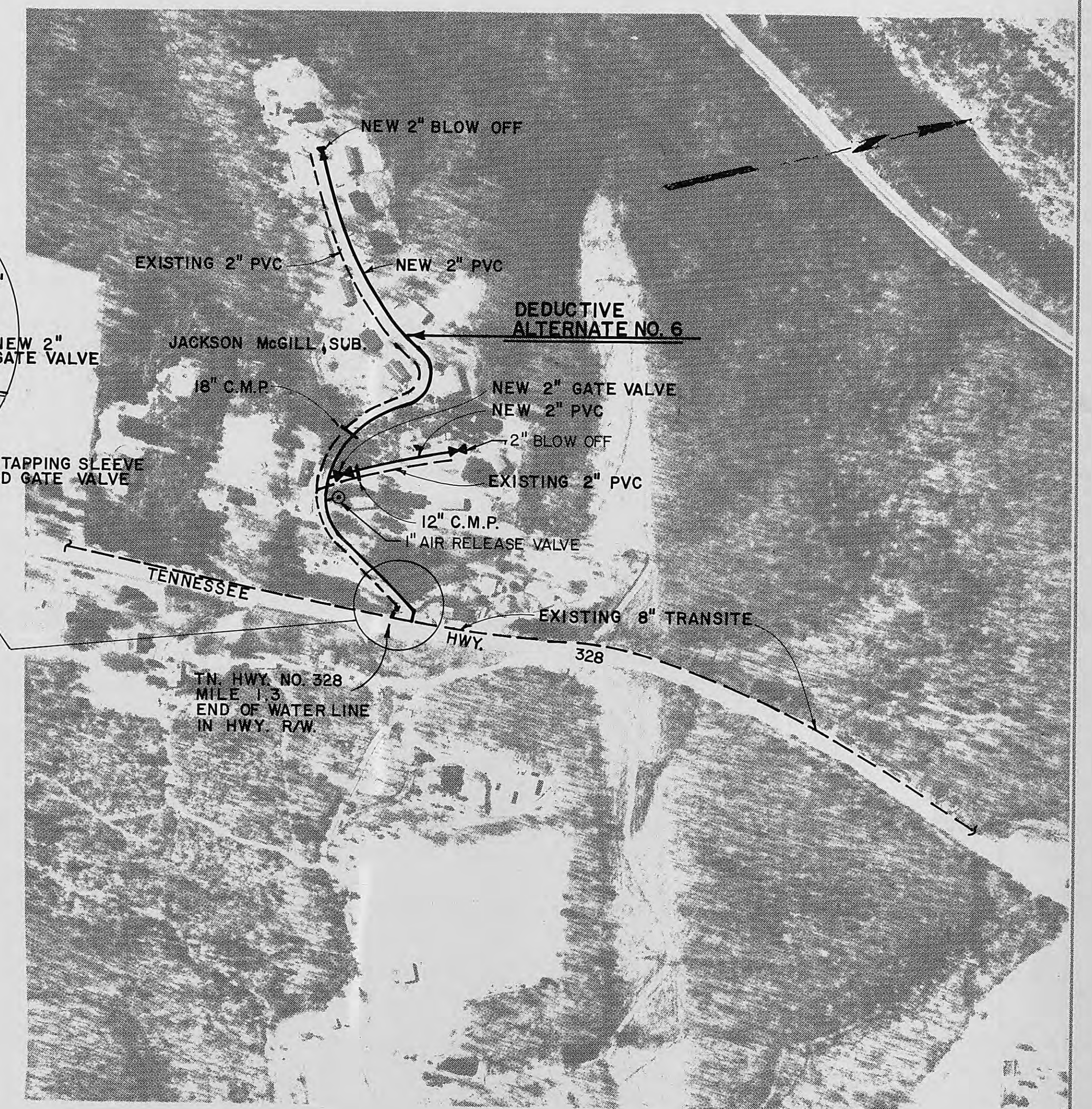
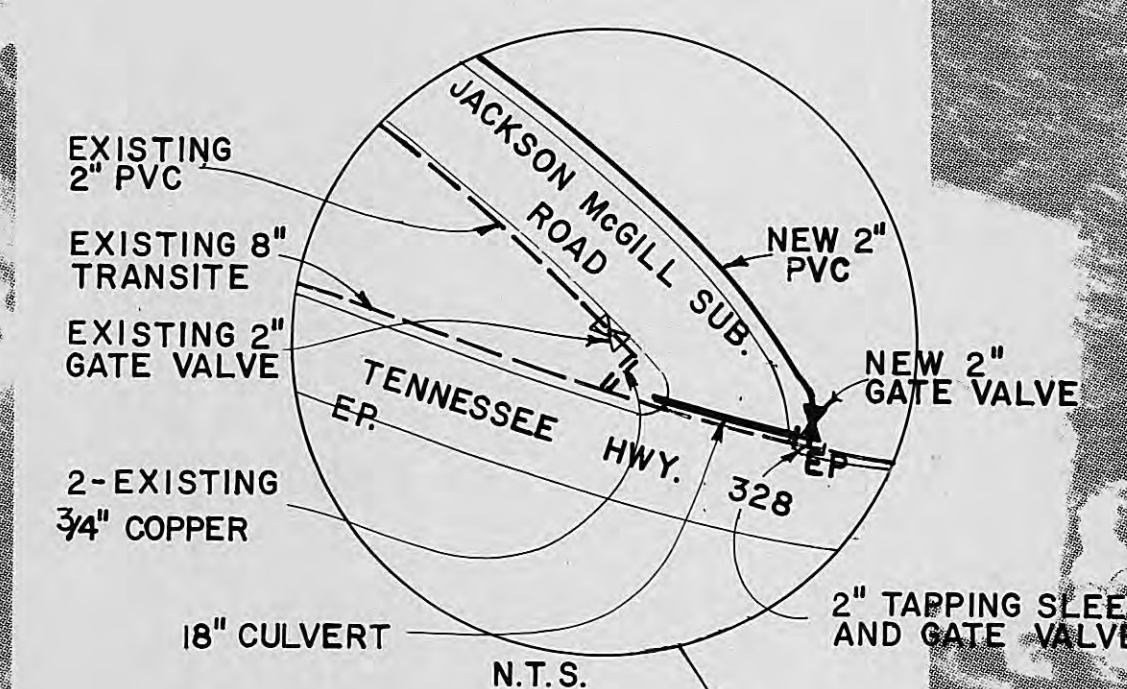
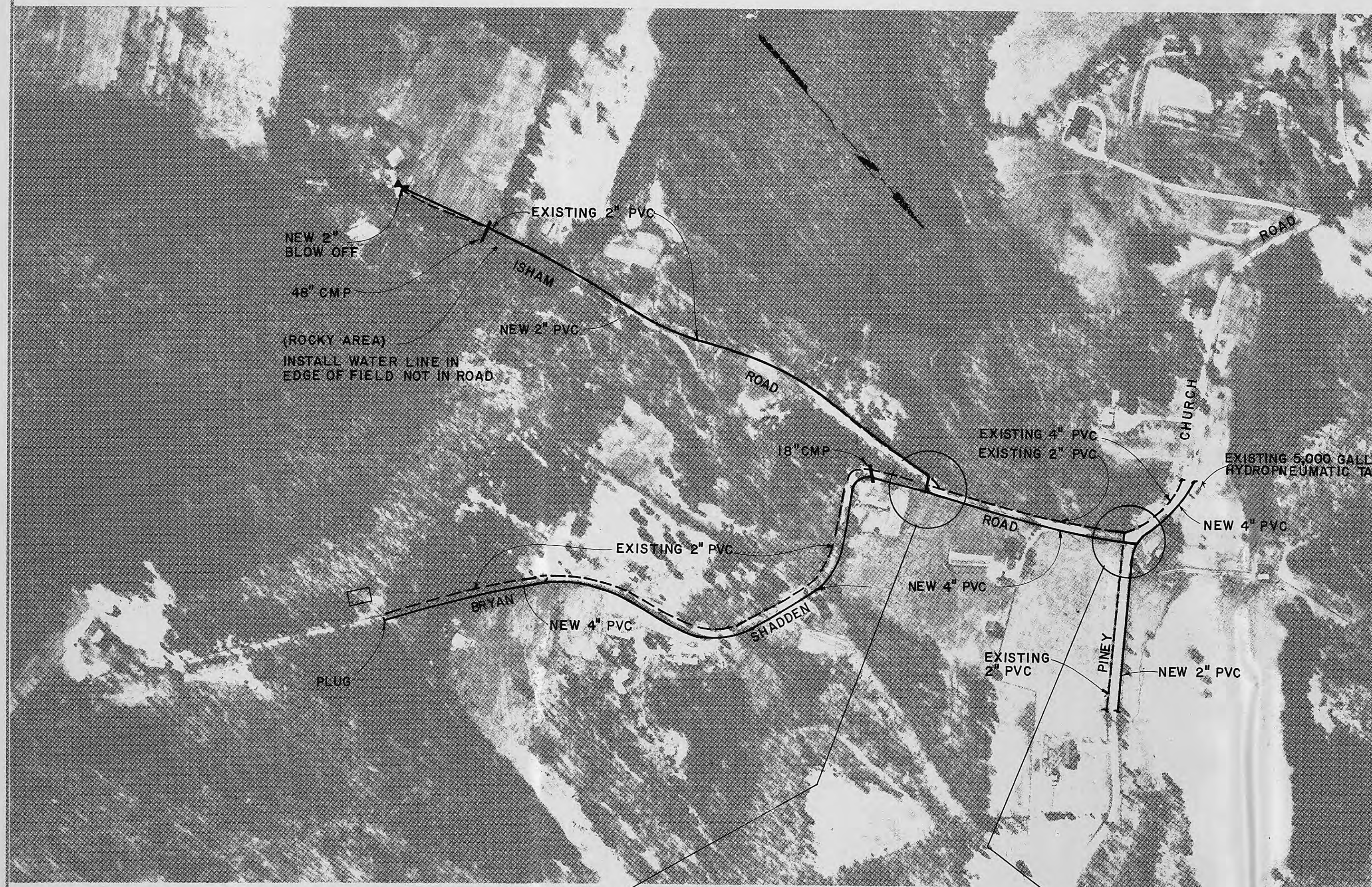
CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

DSGN:	104	301
DRWN:		
CHK'D:		
APPR:		

OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS PHASE 3

WALDEN CROWN SUB.
FORREST HILLS SUB.
ROMO SUBDIVISION ROAD

DRAWING NO.
91017-
3 - 4.2



SCALE: 1" = 200'



LEGEND

NEW WATER LINES	—
EXISTING WATER LINES	- - -
GATE VALVE	⊗
AIR RELEASE VALVE	⊙
PRESSURE REDUCING VALVE	⊖
REDUCER	⊢

△	J.D.H. 8/92	RECORD DRAWING
△	11/91	ADDED DEDUCTIVE ALT. 6
△	REV. NO.	RELEASED BY:
		DESCRIPTION OF REVISION

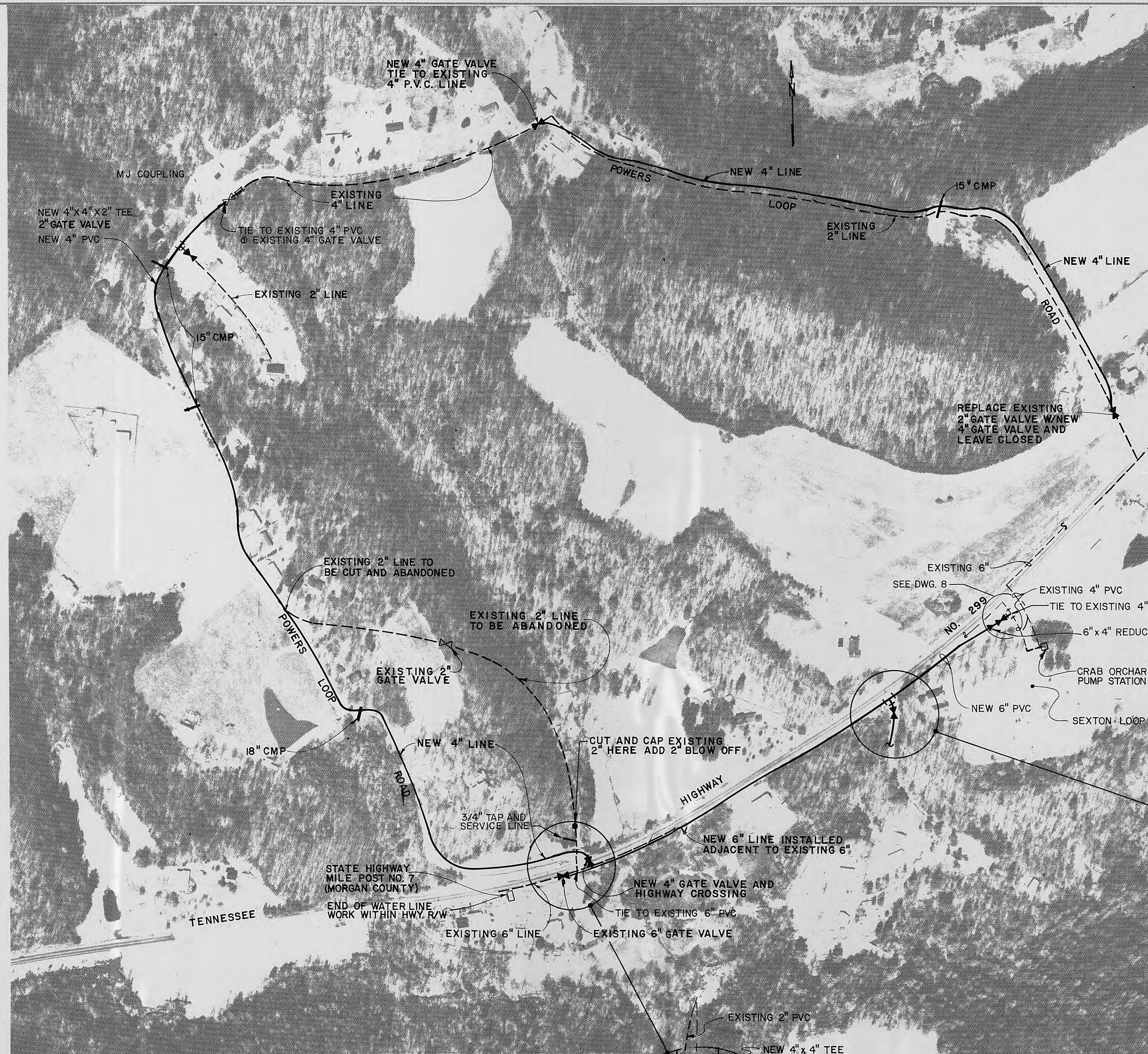
CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

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DRWN:		
CHK'D:		
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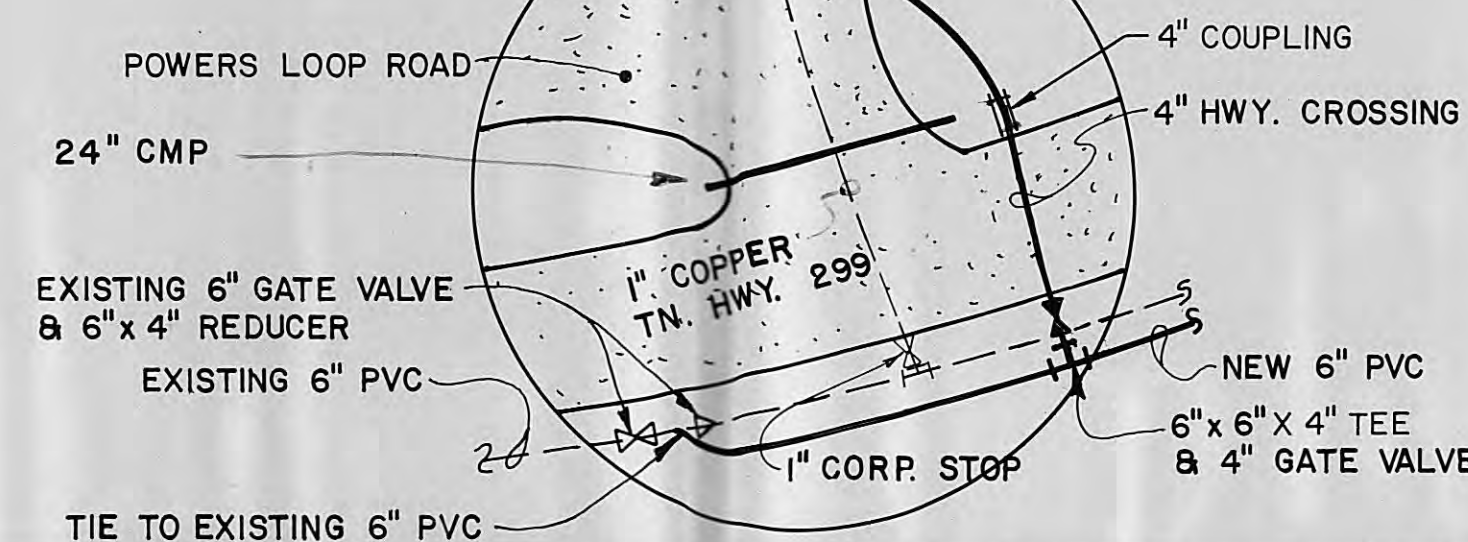
OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS PHASE 3

JACKSON MCGILL SUBDIVISION
BRYAN SHADDEN ROAD

DRAWING NO.
91017-
3 - 5.3



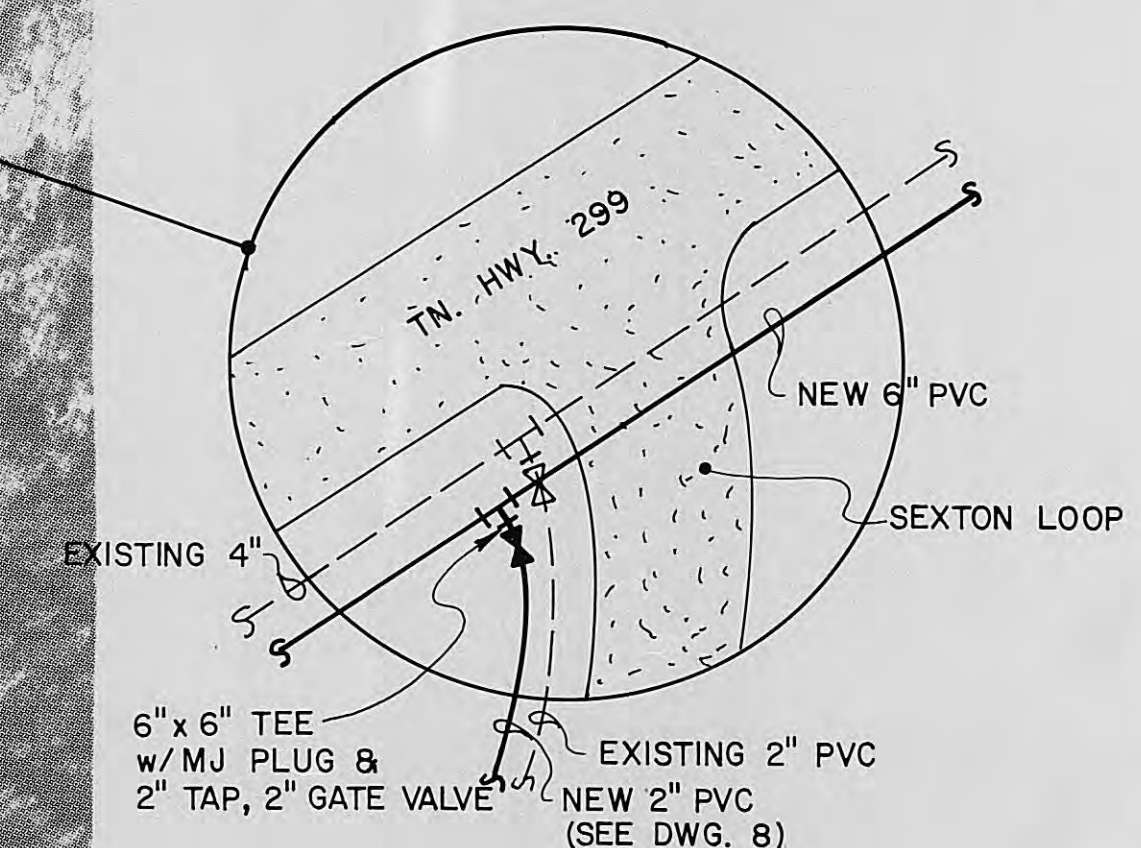
SCALE: 1" = 200'



HIGHWAY ENCROACHMENT NOTE

LINE IS TO BE INSTALLED APPROXIMATELY 4' FROM EDGE OF PAVEMENT. CONTRACTOR IS RESPONSIBLE FOR:

1. PROTECTION OF PAVEMENT FROM ANY DAMAGE.
2. ADEQUATE TRAFFIC CONTROL, SIGNAGE AND FLAGMEN IN ACCORDANCE WITH TDOT REGULATIONS.
3. NOTIFICATION OF TDOT AND OTHER AUTHORITIES 2 DAYS PRIOR TO START OF THIS WORK.



LEGEND

NEW WATER LINES	—	—
EXISTING WATER LINES	---	---
GATE VALVE	⊙	⊙
AIR RELEASE VALVE	⊙	⊙
PRESSURE REDUCING VALVE	⊙	⊙
REDUCER	⊙	⊙



REV. NO.	RELEASED BY:	DESCRIPTION OF REVISION
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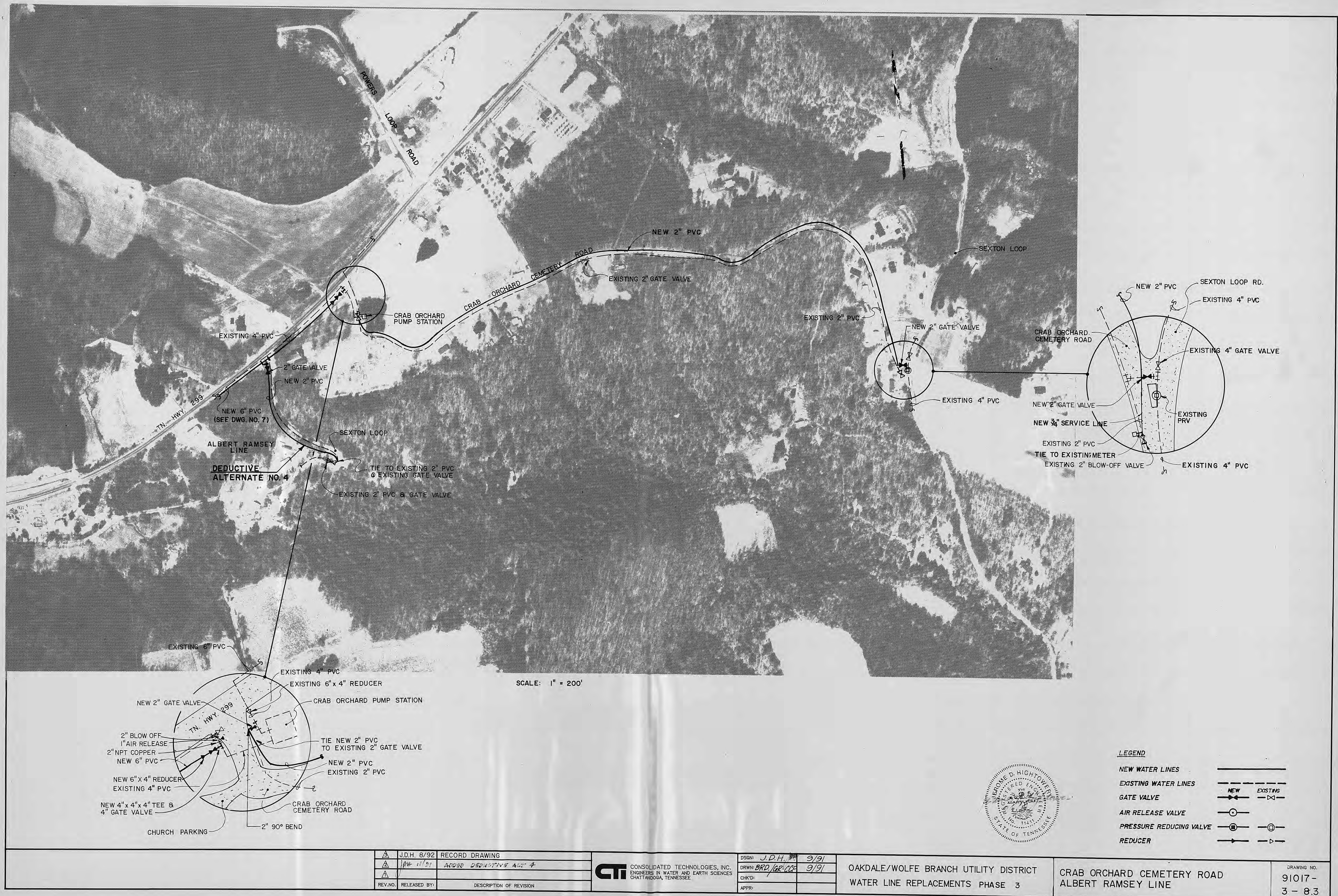
CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

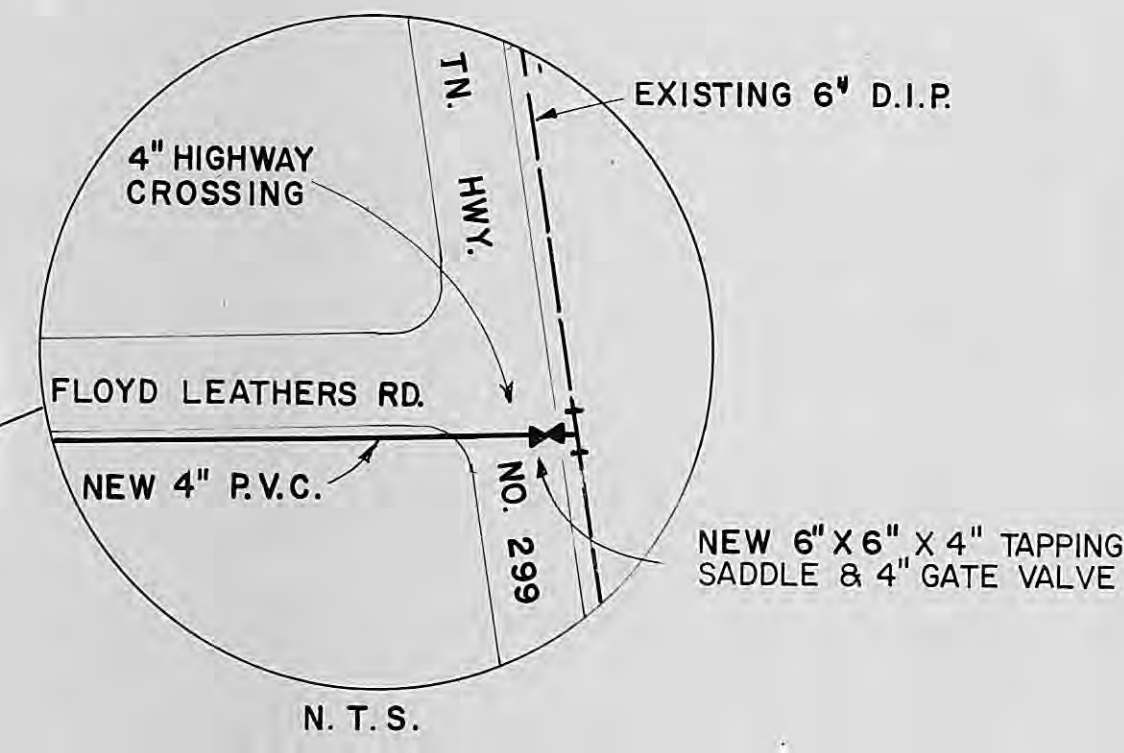
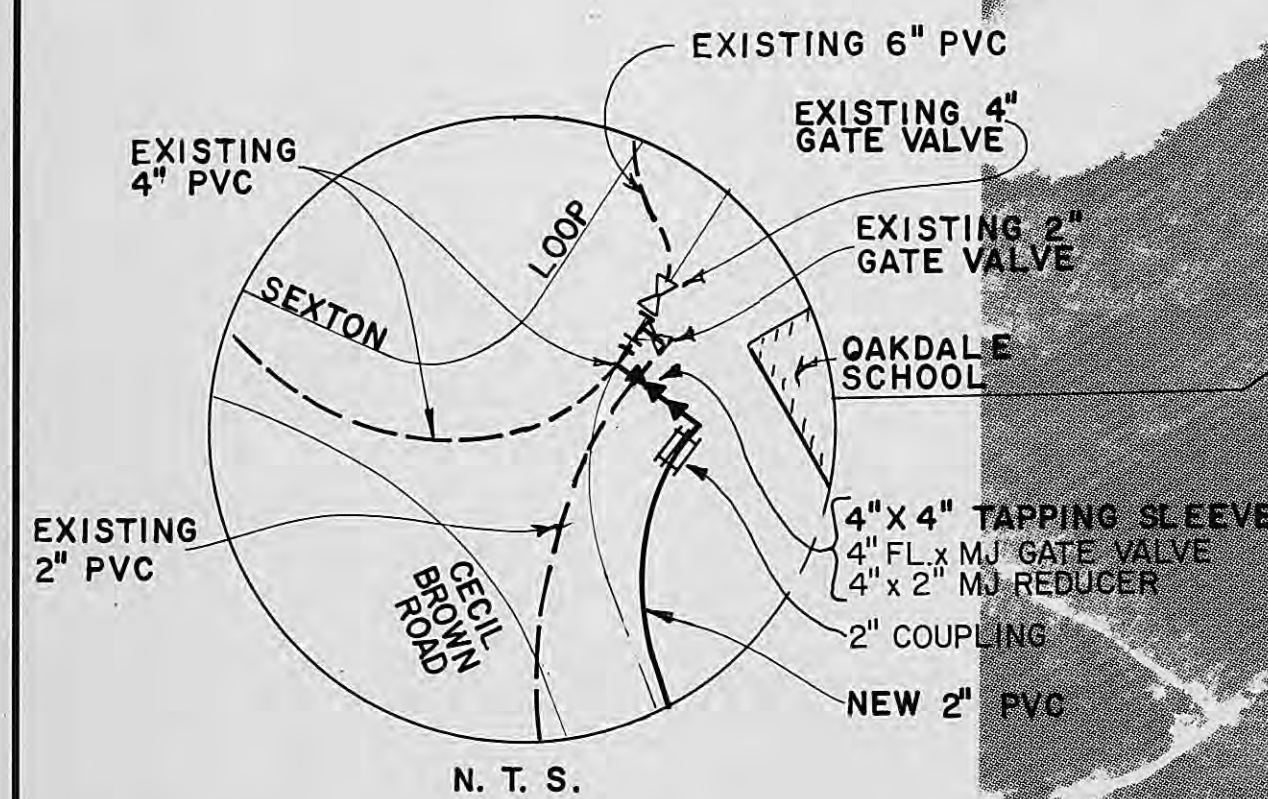
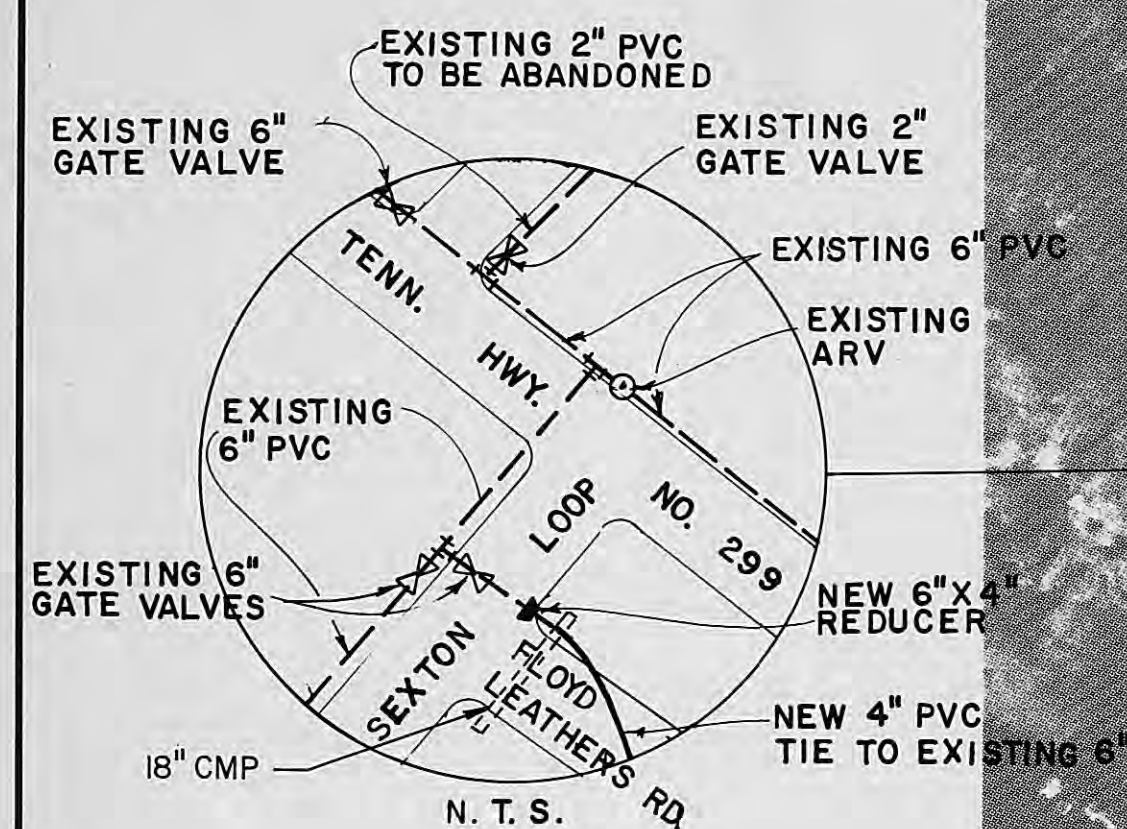
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DRWN:	BRD/BR-CCF	9/91
CHK'D:		
APPR:		

OAKDALE/WOLFE BRANCH UTILITY DISTRICT
WATER LINE REPLACEMENTS PHASE 3

CRAB ORCHARD PUMP STATION
POWERS LOOP ROAD

DRAWING NO.
91017-
3 - 7.2





SCALE: 1" = 200'



LEGEND	
NEW WATER LINES	—
EXISTING WATER LINES	---
GATE VALVE	⊗
AIR RELEASE VALVE	⊙
PRESSURE REDUCING VALVE	⊞
REDUCER	⊞

	△	J.D.H. 8/92	RECORD DRAWING	 CONSOLIDATED TECHNOLOGIES, INC. ENGINEERS IN WATER AND EARTH SCIENCES CHATTANOOGA, TENNESSEE	DSGN: <u>DL</u>	<u>9/91</u>	OAKDALE/WOLFE BRANCH UTILITY DISTRICT WATER LINE REPLACEMENTS PHASE 3	FOOTBALL FIELD- JOHNSONS STORE PALMER RAMP ROAD, MORRISON SUB. ROAD CECIL BROWN ROAD	DRAWING NO. 91017- 3 - 9.3
	△	<u>10/11/01</u>	ADDED DEDUCTIVE ALT 5		DRWN:				
	△				CHK'D:				
	REV. NO.	RELEASED BY:	DESCRIPTION OF REVISION		APPR:				