



The *Reliable One*®

Via E-Mail

April 13, 2009

Michael P. Halpin, P.E.
Administrator, Siting Coordination Office
Department of Environmental Protection
3900 Commonwealth Boulevard, MS-48
Tallahassee, FL 32399-3000

Subject: Amendment Request
Installation of a 24-inch reclaimed water main.

Dear Mr. Halpin

OUC requests the Siting Office to review the enclosed information concerning the installation of a 24-inch reclaimed water main to the Stanton Energy Center. This project is being done by Orange County Utilities to ensure make up flow requirements at the Stanton Facility.

The request is proposed as an amendment to the Stanton Site Certification. We look forward to working with you and your staff on this project. If you have any questions concerning this request, please call me at 407-737-4236 or Mark Corbett of OUC at 407-658-6444, ext. 3019.

Very truly yours,

Denise M. Stalls
Vice President, Environmental Affairs
OUC, The Reliable One

DMS:rc
Enclosures

I:/SEC/RECLAIMED WATER/24inchWater Main installation request-032709

ORLANDO UTILITIES COMMISSION

Reliable Plaza at 100 West Anderson St | P O Box 3193 | Orlando, FL 32802 | 407.423.9100 Tel | 407.236.9616 Fax | www.ouc.com

AMENDMENT REQUEST

Installation of a 24-inch reclaimed water main to Stanton Energy Center

Proposed Amendment

An amendment to the Stanton Energy Center Certification Application is requested to allow for the installation by Orange County of a 24-inch reclaimed water main from the County's Eastern Water Reclamation Facility to the Stanton Energy Center to supplement the current flow of 13 MGD to 14.7 MGD.

Purpose/Reason for Amendment

The purpose of this amendment is to ensure that sufficient reclaimed water from Orange County's Eastern Water Reclamation Facility (EWRF) can be obtained to support full facility operation under foreseeable reasonable conditions or in the event of failure of the existing reclaimed water main.

The Orlando Utilities Commission (OUC) has reached an agreement with Orange County for supply of 14.7 MGD of reclaimed water. In order for Orange County to meet this agreed flow Orange County needs to install an additional 24-inch main to the Stanton Energy Center. The new main will connect to the existing 30-inch line at the Makeup Water Supply Pond. Once completed the new 24-inch line will also serve as a backup line incase the existing 30-inch line should fail.

Technical Description of Amendment

Approval of this amendment would allow OUC to increase the flow of reclaimed water from EWRF from 13 MGD to 14.7 MGD in accordance with the agreed allocation. A 24-inch reclaimed water main currently runs parallel to Alafaya Trail and stops about 500 feet south of the intersection with Mailer Boulevard. This Main will be extended to the Makeup Water Supply Pond. The proposed activities will impact approximately 1,500 linear feet (LF) of the southern end of Alafaya Trail within the Orange County right-of-way and approximately 3,500 LF inside the Stanton Energy Center up to the Makeup Water Supply Pond. The new line will travel down parallel to Alafaya Trail in the existing 30-inch reclaimed water main utility corridor about 10 feet from the edge of the pavement inside the Stanton Energy Center. The 24-inch reclaimed water line will connect to the existing 30-inch reclaimed water line on the west side, just before it crosses Alafaya Trail.

Before construction commences, Orange County's construction contractor will install a dewatering system. The dewatering system will be used when it is necessary to remove groundwater from the excavation to allow the construction work to proceed in the ditch. Orange County's construction contractor will obtain an NPDES permit for the dewatering activities.

Environmental Consequences of Amendment

OUC anticipates no adverse environmental impacts from the approval and implementation of this amendment. The 24-inch reclaimed water main will be placed in the existing 30-inch reclaimed water main utility corridor which was previously approved. The installation of the 24-inch reclaimed water main will have no impacts to wetlands.

Effect of Amendment on Certification/Conditions of Certification

OUC believes that this amendment will have no effect on the existing conditions of certification.

Drawings Included

Construction plans for "Stanton Energy Center 24" Reclaimed Water Main Extension" by Orange County and an aerial photograph showing the route of the reclaimed water main are attached.

Construction Plans for

STANTON

24" RECLAIMED WATER MAIN EXTENSION

Prepared for

ORANGE COUNTY UTILITIES DEPARTMENT ORANGE COUNTY, FLORIDA

BOARD OF COUNTY COMMISSIONERS

RICHARD T. CROTTY
County Mayor

S. SCOTT BOYD
District 1

FRED BRUMMER
District 2

MILDRED FERNANDEZ
District 3

LINDA STEWART
District 4

BILL SEGAL
District 5

TIFFANY MOORE RUSSEL
District 6

Ajit Lalchandani
County Administrator

Michael L. Chandler
Director Orange County Utilities Department



FEBRUARY 2009



WOOLPERT
COUNTY ENGINEER
3501 Lake Linda Drive, Suite 100
Orlando, Florida 32817
(407) 251-1000
www.woolpert.com

INDEX OF DRAWINGS

1	COVER SHEET
2	GENERAL CONSTRUCTION NOTES
3	EMERGENCY SPILL, MAIN BREAK, & MAINTENANCE OF TRAFFIC NOTES
4	UTILITY CONTACTS, LOCATION MAP & LEGEND
5	KEY SHEET
6	ASSET ATTRIBUTE TABLE
7-15	PLAN AND PROFILE SHEETS
16-17	CONSTRUCTION DETAILS

OCU SEQUENCE NUMBER:
UNIT/SUBUNIT NUMBERS: 1483-18

JOHN M. ANGLIS, P.E.
FLA. REGISTRATION NUMBER: 68425

ENGINEER'S PROJECT No. 080331

GENERAL CONSTRUCTION NOTES

ALL WORK AND REIMBURSEMENTS FROM THE MONIES IN THIS PAGE SHALL BE A REQUIREMENT OF THE CONTRACT AND EXECUTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO ORANGE COUNTY.

- [illegible]

GENERAL CONSTRUCTION NOTES

STANTON 24" RECLAIMED WATER MAIN
EXTENSION
ORANGE COUNTY UTILITIES DEPARTMENT



WOODPORT, INC.
P.O. Box 1000
1000 Lakeside Drive, Suite 100
Bloomington, MN 55403
612-835-1000
www.woodport.com

APPROVED: THIS PLAN IS NOT VALID
WITHOUT SIGNATURE, DATE
AND PRINTED NAME APPLICANT

DATE: 02/09/2008

MAINTENANCE IS REQUIRED BY THE MONTH

DATE	11/11/71
TIME	11:11
BY	11/11/71
REMARKS	11/11/71
INITIALS	11/11/71
SIGNATURE	11/11/71
DATE	11/11/71
TIME	11:11
BY	11/11/71
REMARKS	11/11/71
INITIALS	11/11/71
SIGNATURE	11/11/71

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SPILL NOTES:

1. THE CHARGE COUNTY WATER DISTRICT OFFICIALS SHALL BE REQUIRED IMMEDIATELY IN THE CASE OF A FORCE MAIN, SANITARY SEWER, WATER MAIN OR FLOODGATE WATER MAIN BREAK OR COLLAPSE TO NOTIFY THE CHARGE COUNTY WATER MAIN BREAK, FLOODGATE AND WATER MAIN REPAIR PROCEDURES.
2. ANY CALLER TO CHARGE COUNTY MAIN SHALL BE REQUIRED IMMEDIATELY BY THE COLLECTOR AT THE CONTRACTOR'S OFFICE. IF THE REPAIR IS NOT MADE IN A TIMELY AND APPROPRIATE MANNER, AS DETERMINED BY THE CHARGE COUNTY UTILITIES DEPARTMENT, CHARGE COUNTY WATER MAIN REPAIRS AND THE CONSTRUCTION WILL BE CHARGED TO THE REPAIRS.
3. GENERAL WATER THROUGH A WAS PART OF THESE DOCUMENT PROCEDURES. HOWEVER, ALL OTHER GENERAL WATER REPAIRS

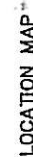
UTILITY CONTACTS

NOTE:

LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CLEAN-OUT	4"	OVERHEAD POWER LINE	
WATER VALVE		LIGHT POLE	
GAS VALVE		TELEPHONE MANHOLE	
FIRE HYDRANT ASSEMBLY		BOX ON TURNED UTILITY MARKER	
WELL		MAIL BOX	
WATER METER		TE	
FLUORINE MANHOLE		8" RIGID	
CATCH BASIN		4" RIGID	
CONC. PAD W/ TRANSFORMER		HTC	
WOOD POWER POLE		EASEMENT LINE	
CONCRETE POWER POLE		RIGHT-OF-WAY	
CUT LINE		ROUTE & JACK	
	-9		

ABBREVIATIONS

[illegible]

LOCATION MAP

END PROJECT
STA 155+00
ALAFAYA TRAIL

BEGIN PROJECT
STA 105+00
ALAFAYA TRAIL

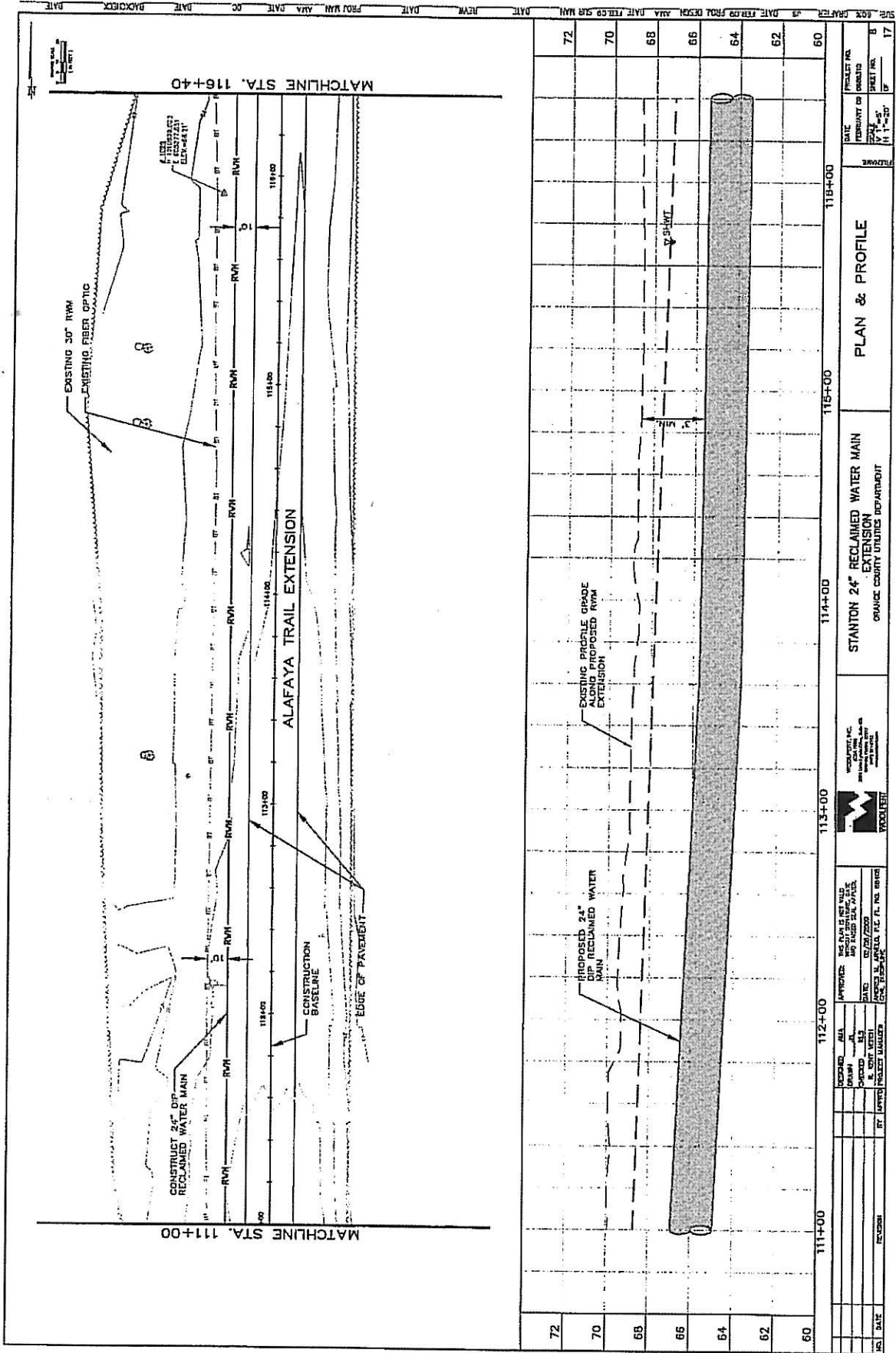
[illegible]

COLLUMET, INC.
1204 19th St.
St. Louis, MO 63103
314-241-2710

ANTON 24" RECLAIMED WATER MAIN
EXTENSION
ORANGE COUNTY UTILITIES DEPARTMENT

UTILITY CONTACTS, LOCATION MAP, LEGEND AND ABBREVIATIONS

DATE	PROJECT NO.
PERMANENT OR	000000
SCALE	SHEET NO.
AS SHOWN ON	4
	17



DATE	PROJECT NO.	PERCENT OF COMPLETION	SHEET NO.	TOTAL SHEETS
11/1/20	17	0%	17	17

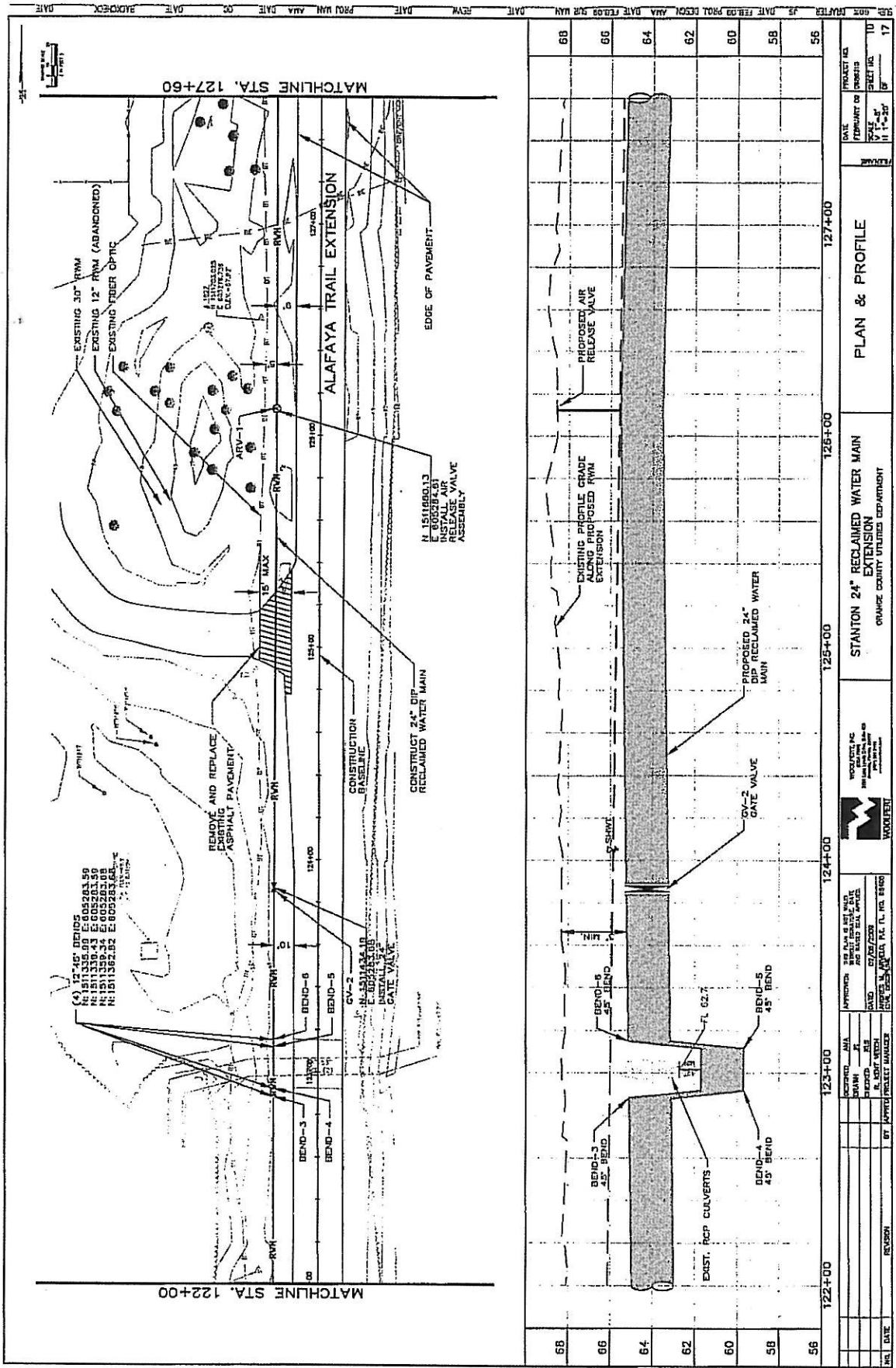
DATE	BY	CHKD	APP'D	SCALE
11/1/20	17	17	17	17



STANTON 24" RECLAIMED WATER MAIN EXTENSION
ORANGE COUNTY UTILITIES DEPARTMENT

PLAN & PROFILE

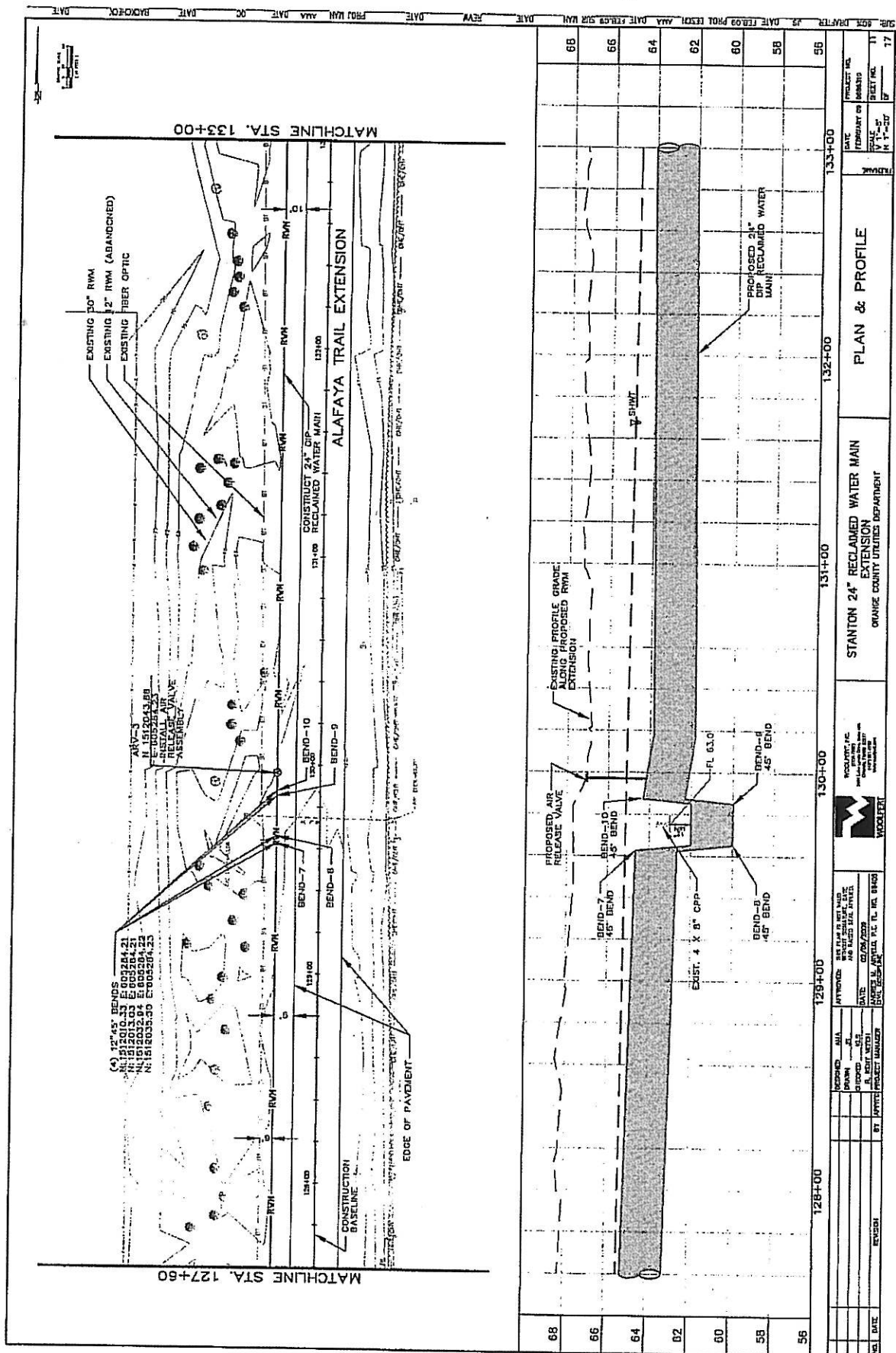
DATE	PROJECT NO.	PERCENT OF COMPLETION	SHEET NO.	TOTAL SHEETS
11/1/20	17	0%	17	17

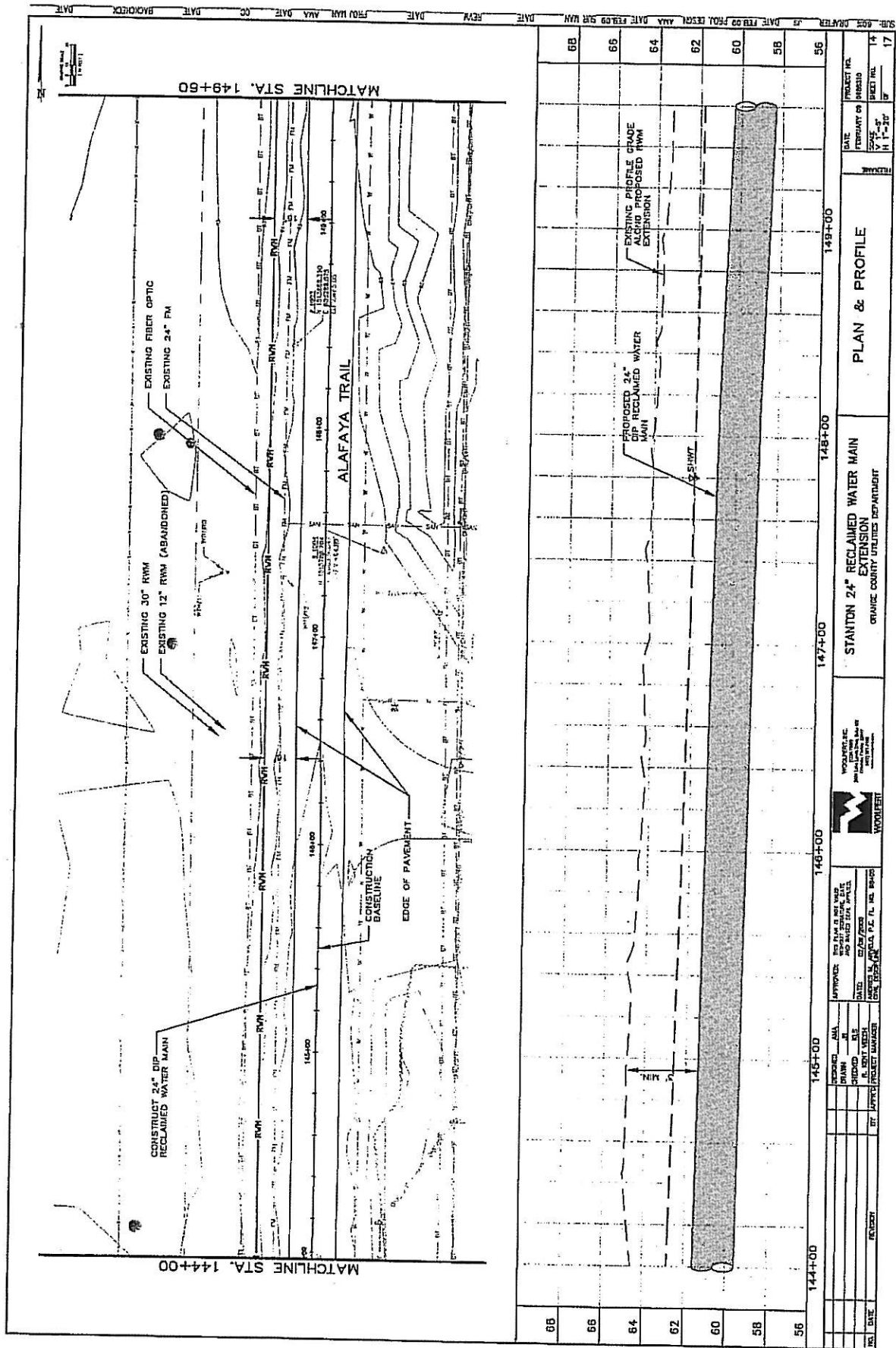


NO.	DATE	REVISION	BY	APP'D	PROJECT MANAGER	DATE	PERCENT OF PROJECT	PROJECT NO.
1							100	10
2							100	17

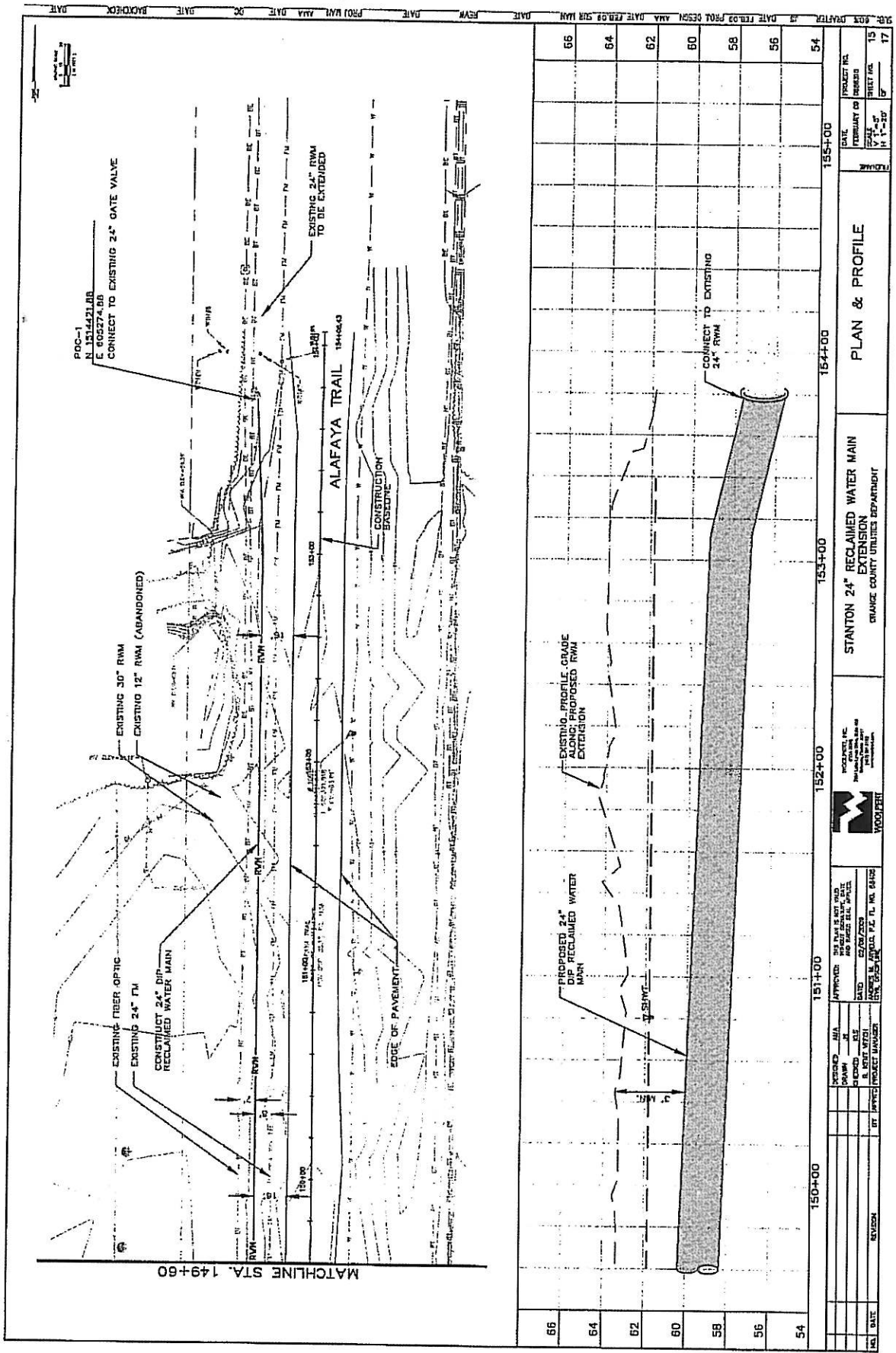
DATE	PROJECT NO.	PERCENT OF PROJECT
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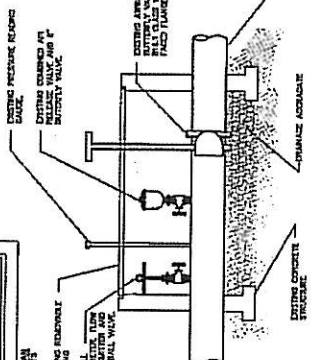
DATE	PROJECT NO.	PERCENT OF PROJECT
11-1-20	10	100





15



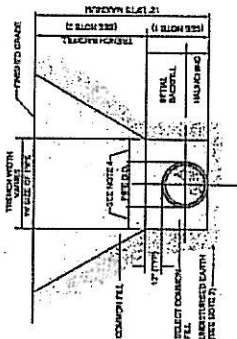


EXISTING METERING ASSEMBLY

PROPOSED UTILITY	HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS										ACCEPTABLE VARIANCES
	POTABLE WATER	POTABLE WATER	RECYCLED WATER	RECYCLED WATER	WATER (POTABLE OR RECYCLED)	WATER (POTABLE OR RECYCLED)	WATER (POTABLE OR RECYCLED)	WATER (POTABLE OR RECYCLED)	WATER (POTABLE OR RECYCLED)	WATER (POTABLE OR RECYCLED)	
POTABLE WATER	-	3'	12'	12'	3'	6'	12'	3'	12'	-	N/A
RECYCLED WATER	3'	12'	-	-	3'	12'	-	-	-	-	
SANITARY SEWER	6'	12'	3'	12'	-	-	-	-	-	-	

[illegible]

**MINIMUM HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS
FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS**
(PER 816.0002 APRIL 13, 2007)

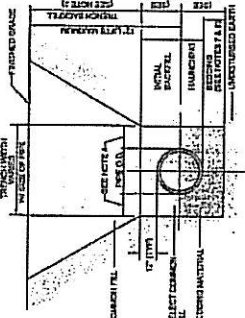
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TYPE B BEDDING AND TRENCHING DETAIL

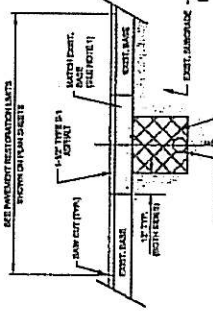
Patient/History of Injury (Injury or Carcinoma in Situ) (Number of Injuries)	2005 Year					2006 Year				
	1	2	3	4	5	1	2	3	4	5
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3113	12	26	27	44	62	116	115	118	123	135
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3135	12	26	27	44	62	116	115	118	123	135
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4609	12	26	27	44	62	116	115	118	123	135
4620	12	26	27	44	62	116	115	118	123	135
4631	12	26	2							

[illegible]

RESTRAINED PIPE TABLE

[illegible]

TYPE A BEDDING AND TRENCHING DETAIL
(SEE FIG. 1000, APRIL 13, 1957)



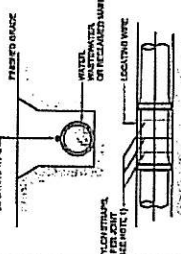
NOTES

1. BACK REMOVAL SHALL BE THE SAME TYPE OF MATERIAL THAT EXISTED AT THE TIME OF REMOVAL ON AS APPROVED BY THE COUNTY ENGINEER.
2. ASPHALT CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH 1 1/2" TYPE A ASPHALT ON AS APPROVED BY THE COUNTY ENGINEER.
3. REINFORCE COT SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

ALL JOINT CUTS SHALL BE REINFORCED CUT.

(SEE NOTE 3)

PAVEMENT RESTORATION DETAIL



NOTES:

1. ALL PFE SHALL REQUIRE INSTALLED LOCATING WIRE. IF GIVEN EXISTING CONDUIT SHALL BE LOCATED WITHIN ITS GROUND LOCATION AND SHALL BE SWITCHED WITHIN 10' OF THE PFE.
2. LOCATING WIRE IS TO BE CONCENTRIC TO THE PFE. INSULATED WIRE SHALL EXTEND TO THE LAST STATION BOX AND SHALL EXTEND 12" ABOVE TOP OF DOLLAR.

PIPE LOCATING WIRE DETAIL
SEE 8134, DATE APRIL 11, 2009

PIPE LOCATING WIRE DETAIL

[illegible]

