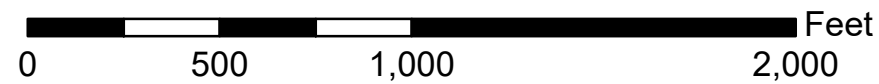


**34TH AVENUE FORCE MAIN VICINITY MAP**



# CITY OF ALBANY

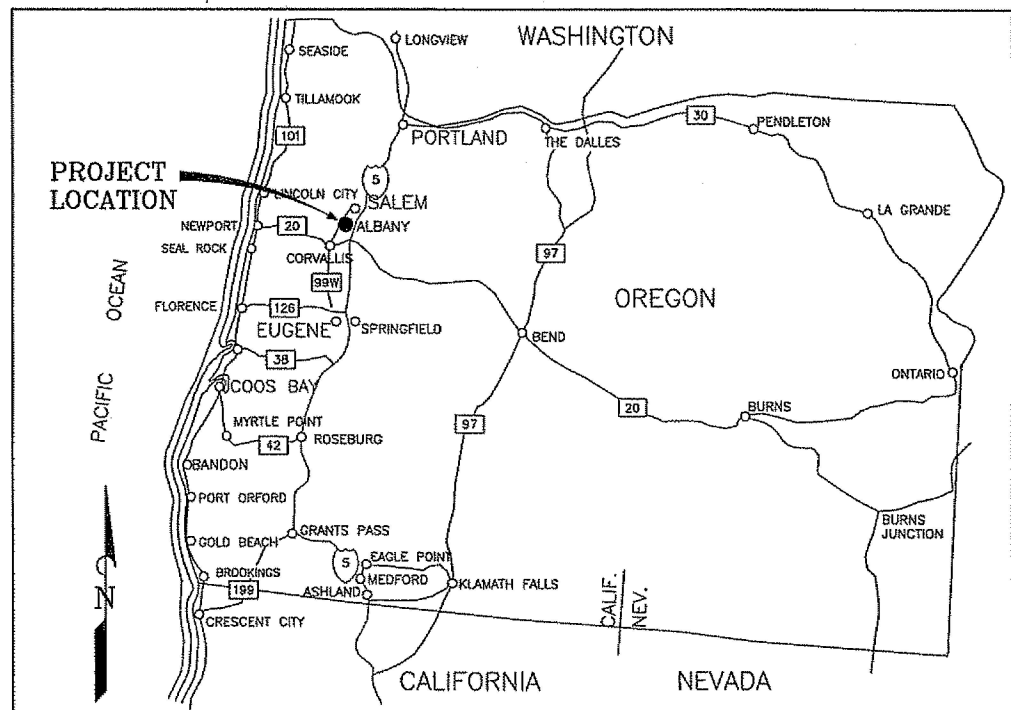
LINN COUNTY, OREGON

SS-06-05

## 34TH AVENUE LIFT STATION LIFT STATION IMPROVEMENTS

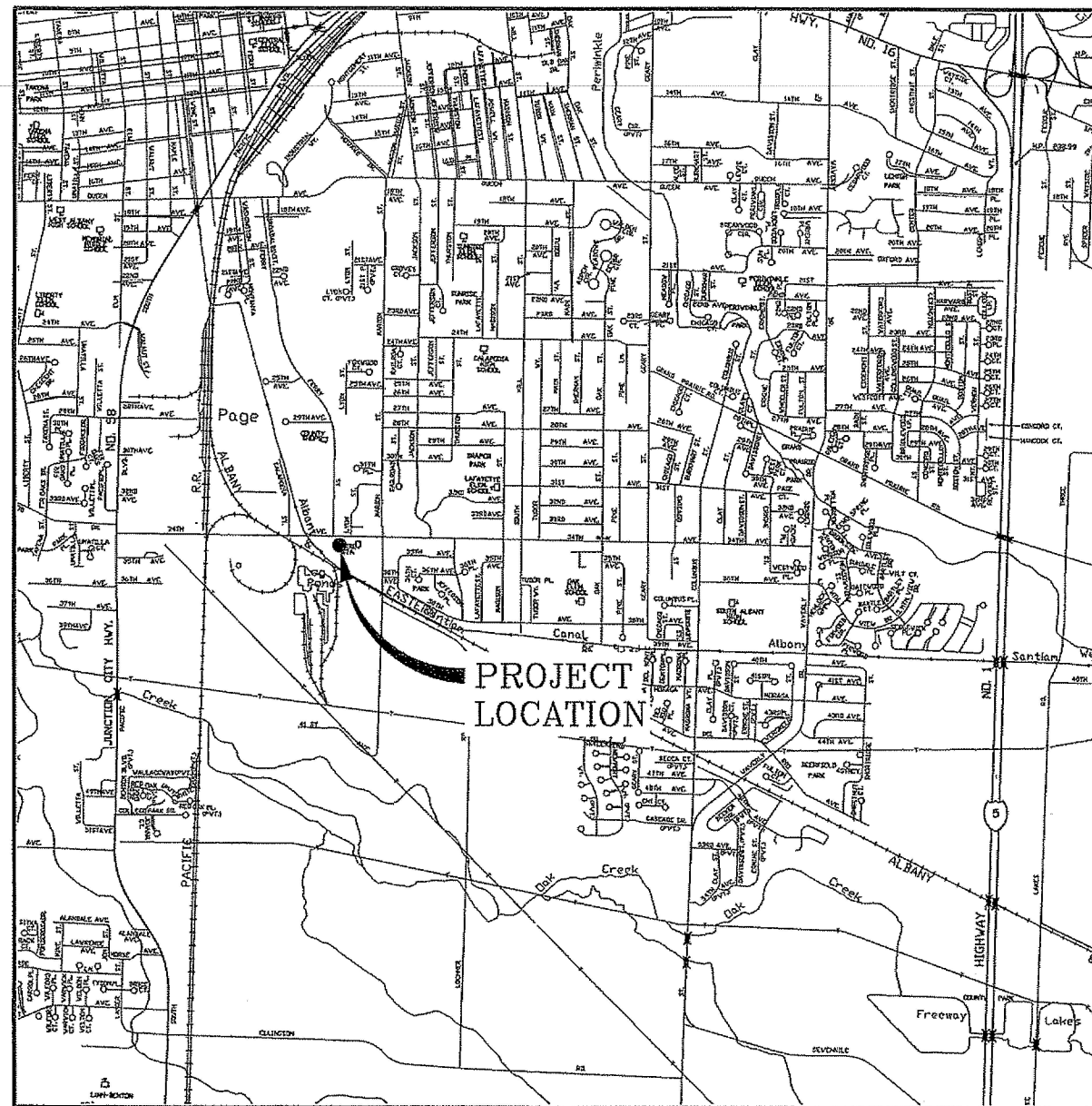
PROJECT NO. 2007-010

APRIL 2008



LOCATION MAP

0 20 40 60  
SCALE IN MILES



VICINITY MAP

SCALE: 1" = 1/2 MILE

PAGE NO.	SHEET	SHEET TITLE	PAGE NO.	SHEET	SHEET TITLE
01	G1	COVER SHEET	27	E1	ELECTRICAL SITE PLAN
02	G2	SITE PLAN	28	E2	ELECTRICAL BUILDING PLAN
03	C1	DEMOLITION PLAN	29	E3	MCP DETAILS AND PROJECT NOTES
04	C2	SURFACING PLAN	30	E4	ELECTRICAL DETAILS
05	M1	DISCHARGE HEADER PLAN	31	E5	ONE LINE POWER DIAGRAM
06	M2	WETWELL ELEVATION	32	E6	PLC NETWORK AND PANEL SCHEDULES
07	M3	FLOWMETER VAULT	33	E7	CONTROL SCHEMATIC 1
08	M4	PROVISIONS FOR FUTURE PIQ STATION	34	E8	CONTROL SCHEMATIC 2
09	M5	INFLUENT PIPELINE AND MANHOLE	35	E9	CONTROL SCHEMATIC 3
10	A1	ADDITIVE ALTERNATE - PIQ STATION	36	E10	VFD 1 CONTROL
11	S1	WETWELL STRUCTURAL SECTION	37	E11	VFD 2 CONTROL
12	S2	WETWELL STRUCTURAL DETAILS	38	E12	VFD 3 CONTROL
13	S3	WETWELL PENETRATION DETAILS	39	F1	BUILD-OUT PUMP DETAILS
14	S4	VALVE VAULT STRUCTURAL DETAILS			
15	S5	ROOF STRUCTURAL DETAILS			
16	S6	INFLUENT DEFLECTOR DETAILS			
17	S7	SUMP AND PUMP MOUNTING DETAILS			
18	B1	ELECTRICAL/CONTROL BUILDING			
19	B2	ELECTRICAL/CONTROL BUILDING			
20	B3	ELECTRICAL/CONTROL BUILDING			
21	D1	FLOWMETER VAULT DETAILS			
22	D2	LIFT STATION DETAILS			
23	D3	LIFT STATION DETAILS			
24	D4	LIFT STATION DETAILS			
25	D5	LIFT STATION DETAILS			
26	D6	LIFT STATION DETAILS			

**OWNER**  
CITY OF ALBANY  
333 BROADALBIN SW  
ALBANY, OREGON 97321-0144

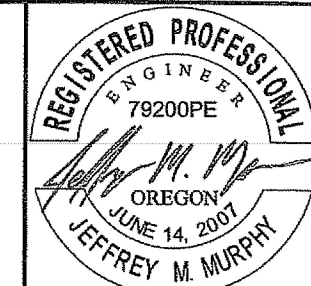
**ENGINEER**  
HBH CONSULTING ENGINEERS  
486 E STREET, SUITE 3  
COOS BAY, OREGON 97420  
PROJECT MANAGER - J. GARRETT PALLO, PE  
PROJECT ENGINEER - JEFFREY M. MURPHY, PE

**SURVEYOR**  
HBH CONSULTING ENGINEERS  
4497 BROWNBRIDGE TERRACE, SUITE 202  
MEDFORD, OREGON 97504  
PROJECT SURVEYOR - JOHN P. PARIANI, PLS

**ELECTRICAL ENGINEER**  
CAMTRONICS, INC.  
224 NELSON LANE  
CAMAS VALLEY, OREGON 97416  
ELECTRICAL ENGINEER - TERRY NELSON, PE

**GEOTECHNICAL CONSULTANT**  
PBS ENGINEERING + ENVIRONMENTAL  
271 N. BAXTER  
COQUILLE, OR 97423  
SENIOR GEO. ENGINEER - RAJIV ALI, PE  
PROJECT GEO. ENGINEER - ANDREA SCHEELE, PE

**STRUCTURAL CONSULTANT**  
WDY STRUCTURAL AND CIVIL ENGINEERS  
6443 SW BEAVERTON-HILLSDALE HWY, SUITE 210  
PORTLAND, OREGON 97221  
STRUCTURAL ENGINEER - DOUGLAS E. PAYOLA, PE, SE  
STRUCTURAL ENGINEER - MEIKO WINNIG, PE, SE



EXPIRATION DATE: 12/31/08

**H B H**  
Consulting Engineers  
486 E Street, Suite 3  
Coos Bay, Oregon 97420  
541/266-0355 Fax 541/266-7504  
email: mail@hbh-consulting.com

REV.	DATE	DESCRIPTION	BY
1	6/20/07	REVISED PER CITY COMMENTS	DCN

CITY OF ALBANY  
333 BROADALBIN SW, ALBANY, OR 97321

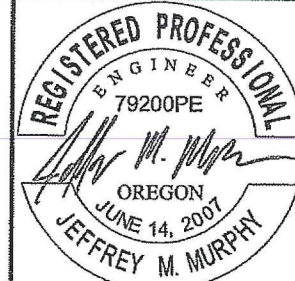
34TH AVENUE LIFT STATION  
LIFT STATION IMPROVEMENTS

COVER SHEET

Sheet No. **G1**  
Date **4/3/2008**  
1 of 39

SS-06-05 --- ASBUILT --- SLB





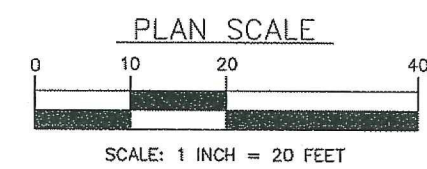
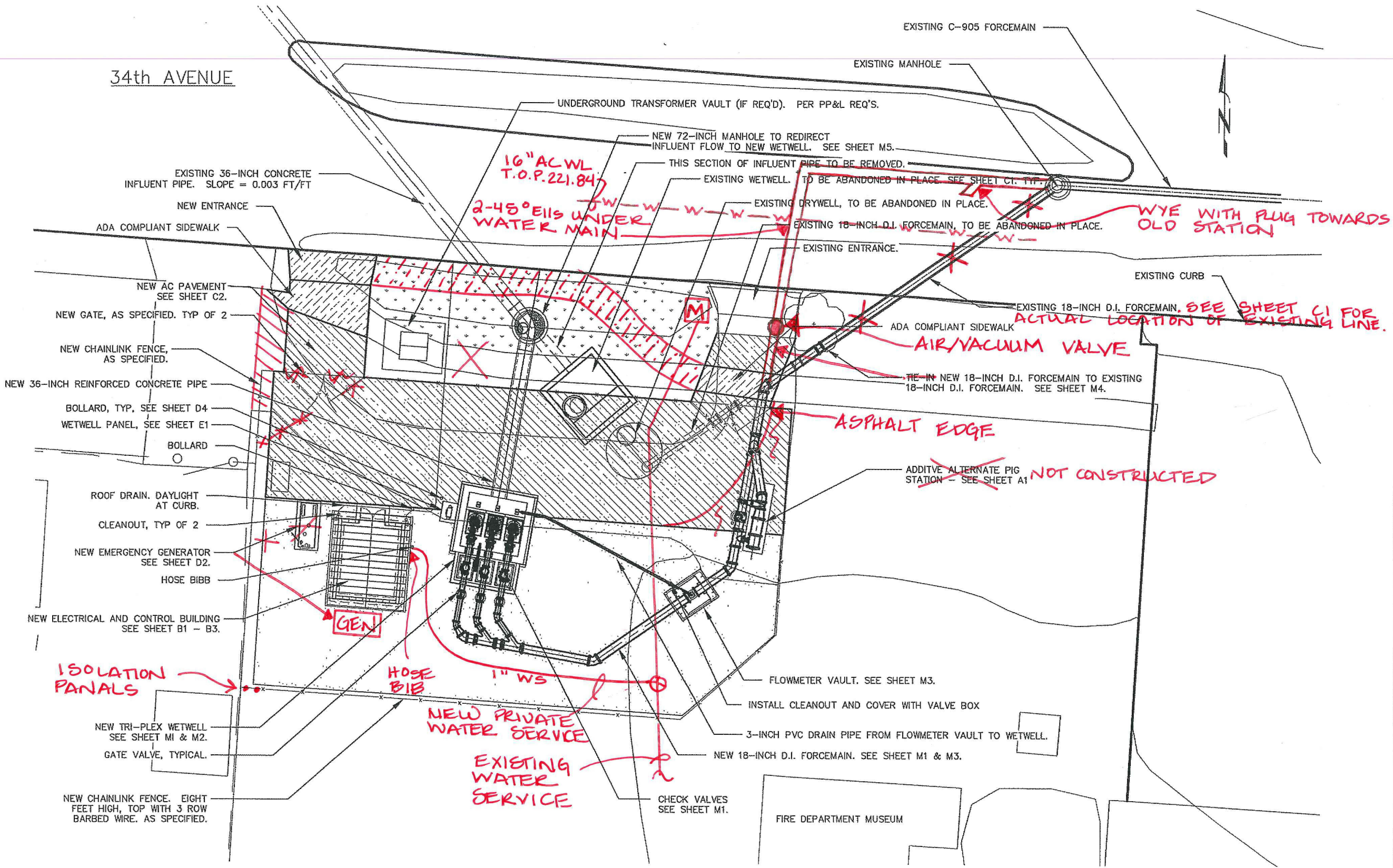
EXPIRATION DATE: 12/31/08

**H B H**  
 Consulting Engineers  
 486 E Street, Suite 3  
 Coos Bay, Oregon 97420  
 541/266-0355 fax 541/266-7504  
 email: mail@hbh-engineers.com

REV.	DATE	DESCRIPTION	BY

CITY OF ALBANY  
 333 BROADALBIN SW, ALBANY OR 97321  
**34th AVENUE LIFT STATION**  
**NEW TRI-PLEX PUMPING STATION**  
**SITE PLAN**

Date: **4/4/2008**  
 Sheet No: **G2**  
 2 of 39



**SITE PLAN**  
 SCALE: 1" = 20'

**SS-06-05 ---- ASBUILT ---- SLB**

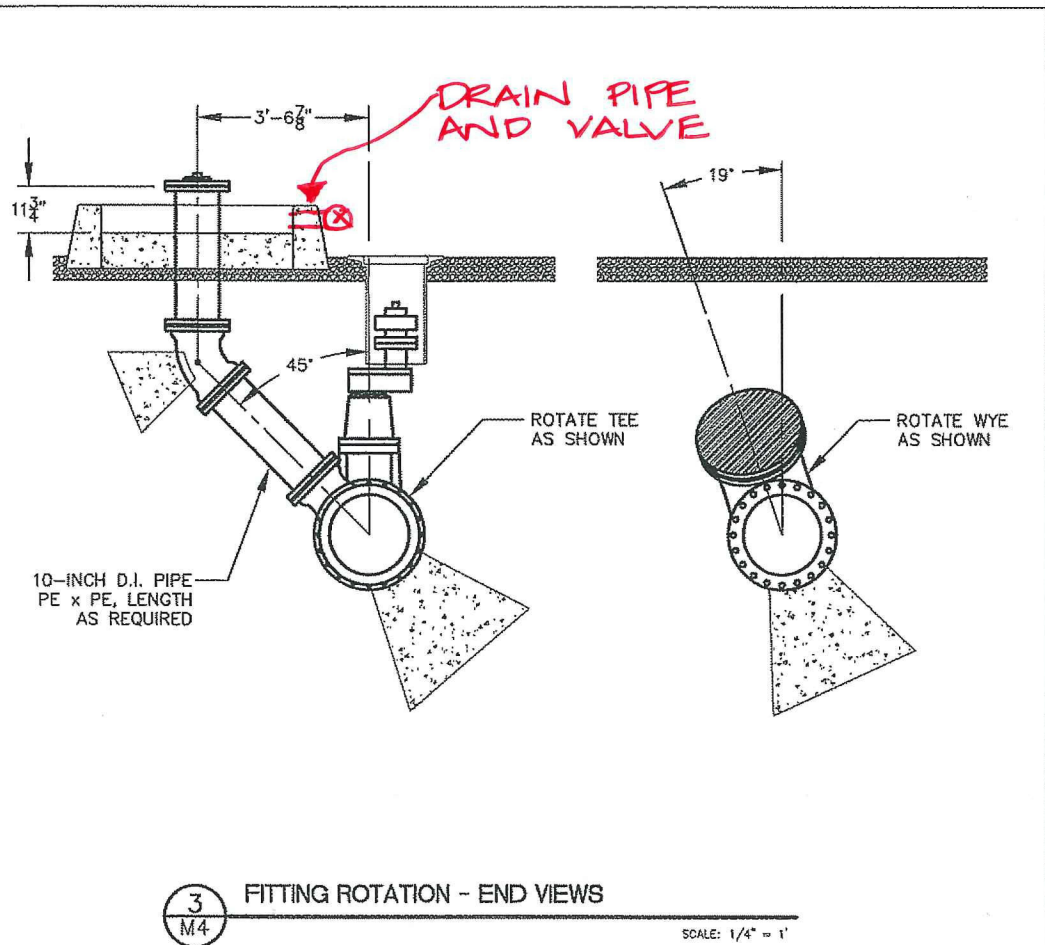
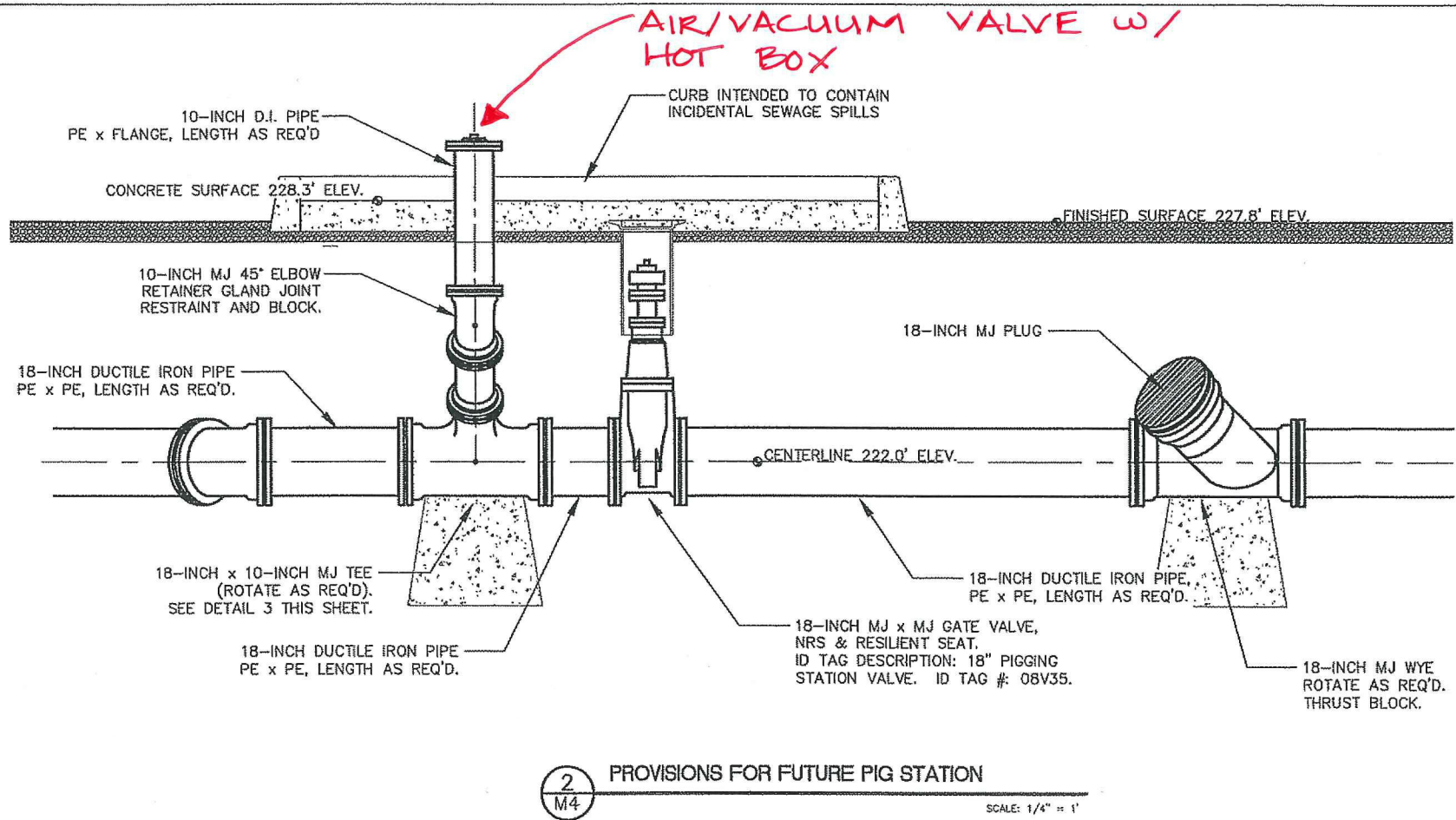
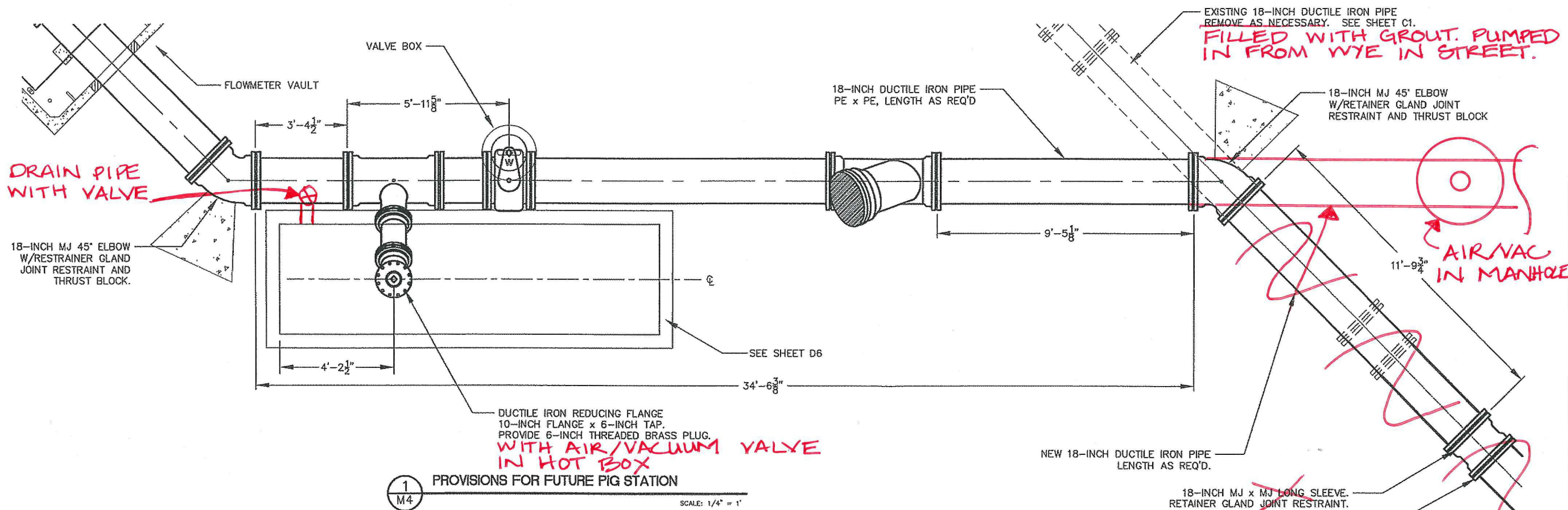












**REGISTERED PROFESSIONAL ENGINEER**  
 79200PE  
 OREGON  
 JUNE 14, 2007  
 JEFFREY M. MURPHY

EXPIRATION DATE: 12/31/08

486 E Street, Suite 3  
 Coos Bay, Oregon 97420  
 Consulting 541/266-0355 fax 541/266-7504  
 email: mail@hbjh-consulting.com

**H B H**  
 Engineers

IF THIS LINE IS NOT 1" DRAWING SCALE IS NOT AS SHOWN

0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"

Designed By: JMM Drawn By: JMM Checked By: JGP Project No: 2007-010  
 File: C:\PROJECTS\DWG\ Layout: M4

REV.	DATE	DESCRIPTION

CITY OF ALBANY  
 333 BROADALBIN SW, ALBANY OR 97321

34th AVENUE LIFT STATION  
 NEW TRI-PLEX PUMPING STATION

PROVISIONS FOR FUTURE PIG STATION

Date Sheet No. **M4** 8 of 39  
 Date 4/4/08

**SS-06-05 ---- ASBUILT ---- SLB**

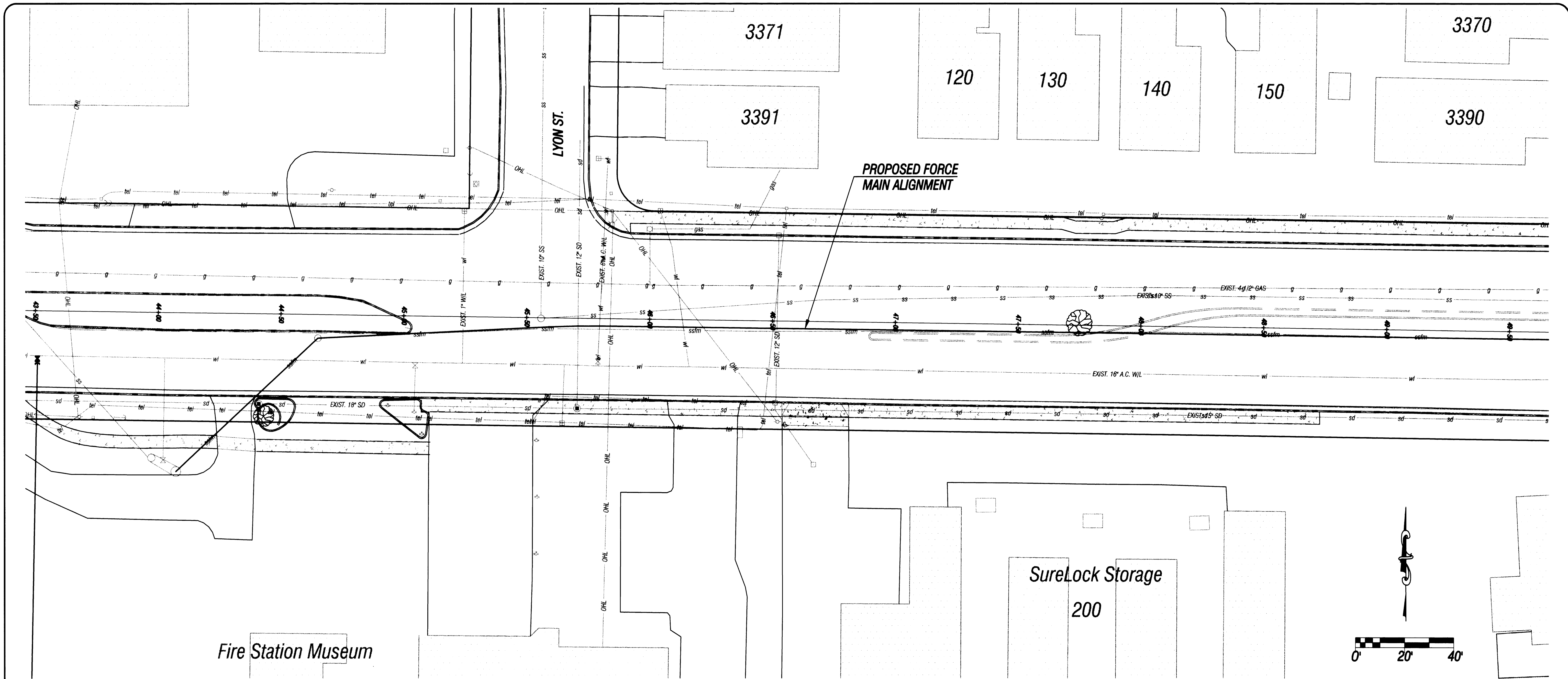












SEE NEXT SHEET FOR PROFILE VIEW

AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.  
*Leonard L. Smith*  
 LEONARD L. SMITH PE-LIC NO. 8706

NO.	DATE	REVISION	BY	APVD
2	5/3	100% SUBMITTAL	J.M.	L.S.
1	4/11	90% SUBMITTAL	J.M.	L.S.

**PacWest ENGINEERING**  
 1530 Ninth Avenue SE  
 Albany, OR 97321  
 Phone (541) 926-7634  
 Fax (541) 926-7539

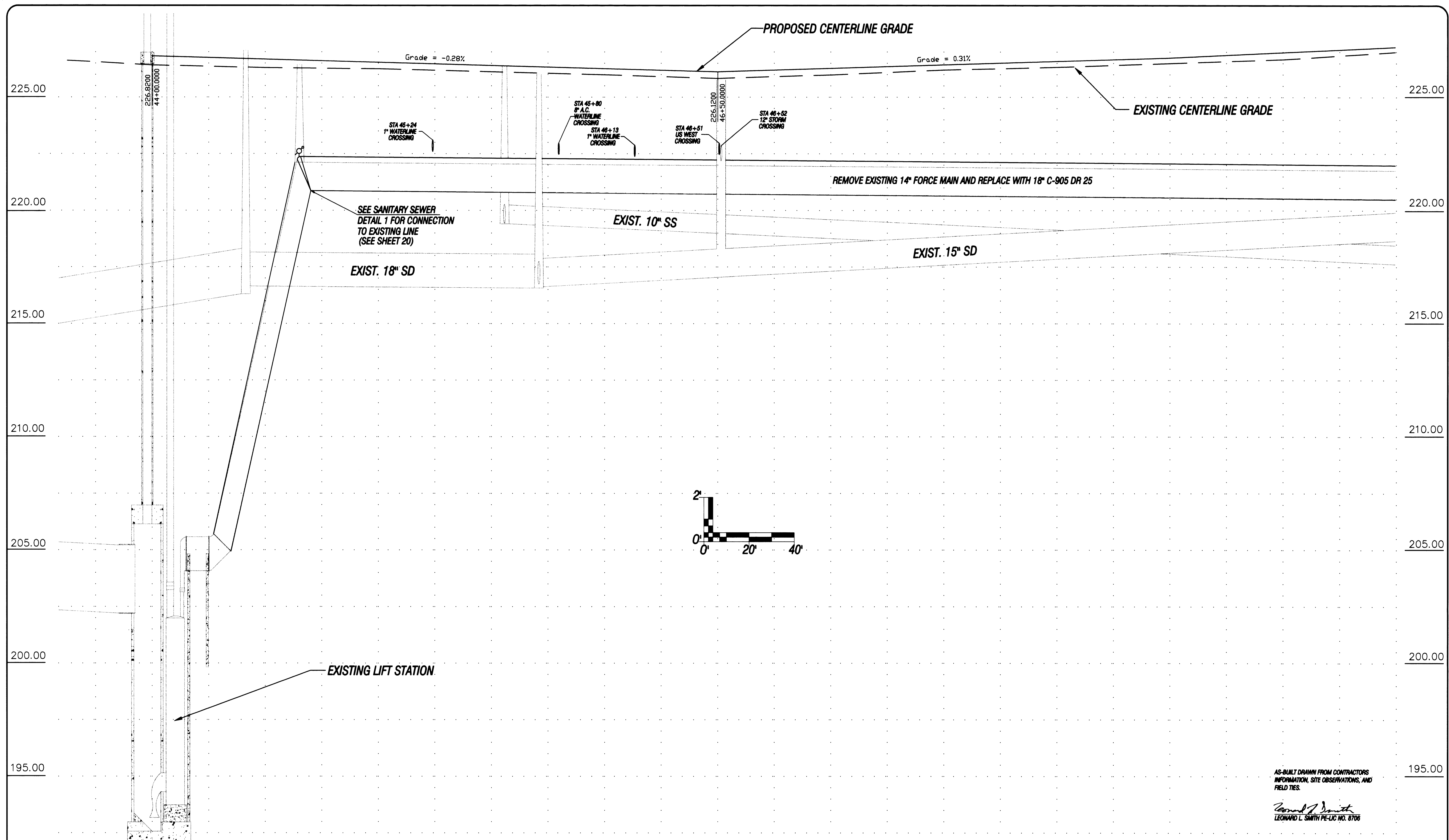
34th AVENUE  
 PREPARED FOR:  
 CITY OF ALBANY

SANITARY SEWER FORCE MAIN REPLACEMENT  
 STA 43+50 TO 49+50

DESIGN	C.HENDRICKSEN
DRAWN	J.MONTOYA
CHECKED	L.SMITH
APPROVED	L.SMITH

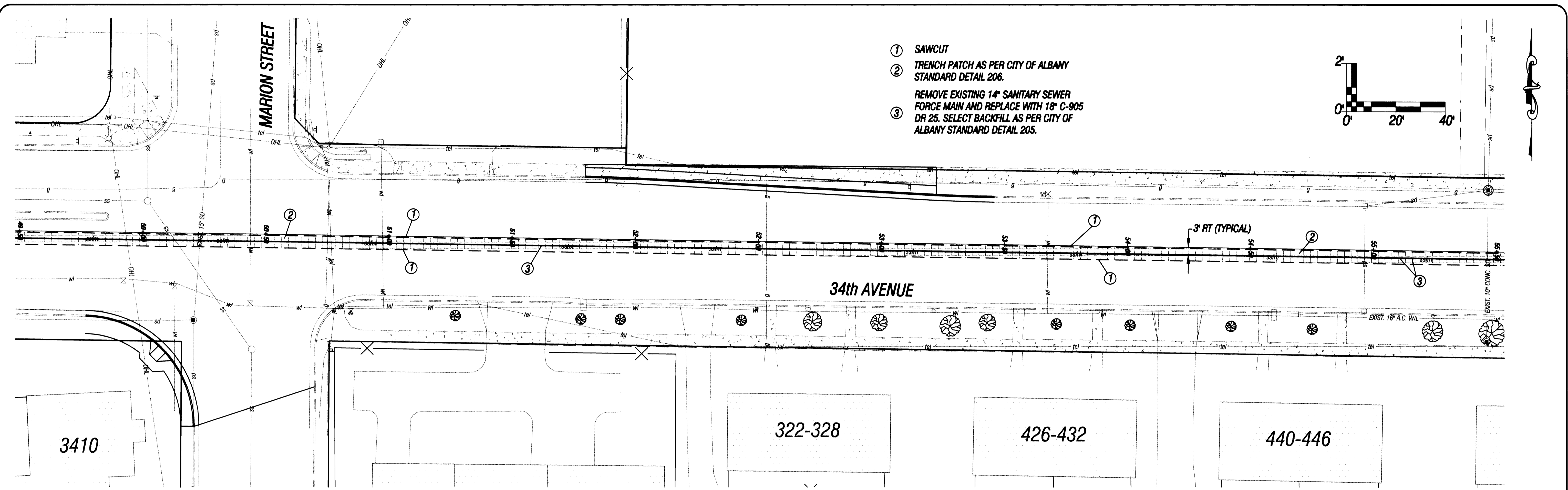
SHEET	10 OF 33
DWG	SSFM-1
DATE	5/3/00
PROJECT	99-51

ST-99-4

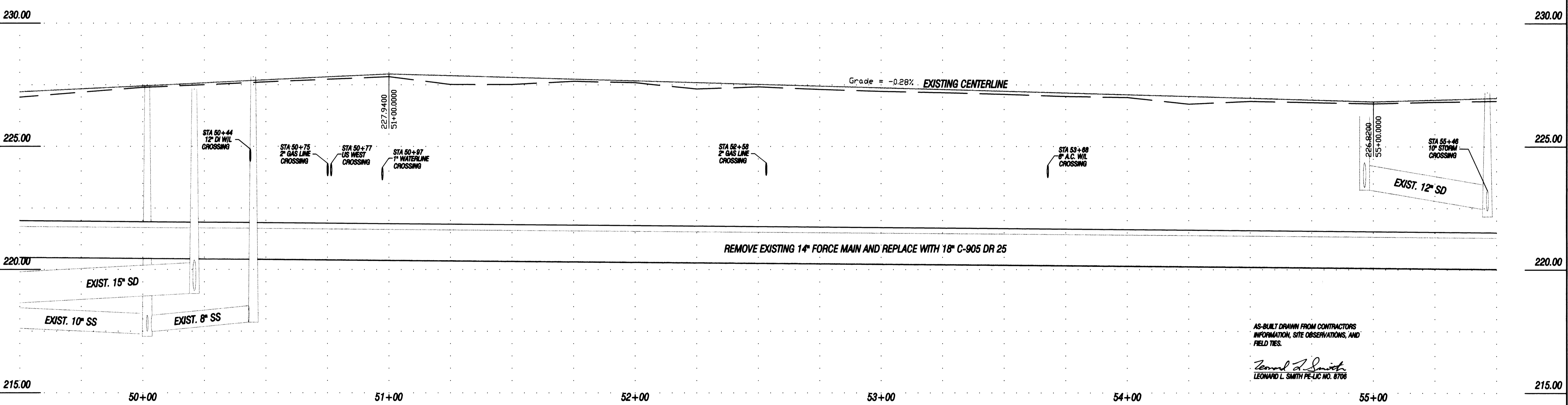


2	5/3	100% SUBMITTAL	J.M. L.S.	<b>PacWest ENGINEERING</b> 1530 Ninth Avenue SE Albany, OR 97321 Phone (541) 926-7634 Fax (541) 926-7539	34th AVENUE PREPARED FOR: <b>CITY OF ALBANY</b>	SANITARY SEWER FORCE MAIN REPLACEMENT STA 43+50 TO 49+50	DESIGN	C.HENDRICKSEN		SHEET	11 OF 33
1	4/11	90% SUBMITTAL	J.M. L.S.				DRAWN	J.MONTOYA		DWG	SSFM-1
NO.	DATE	REVISION	BY	APVD	APPROVED	L.SMITH	DATE	5/3/00			
							PROJECT	99-51			

**ST-99-4**



- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.



NO.	DATE	REVISION	BY	APVD
2	5/3	100% SUBMITTAL	J.M.	L.S.
1	4/11	90% SUBMITTAL	J.M.	L.S.

**PacWest ENGINEERING**  
 1530 Ninth Avenue SE  
 Albany, OR 97321  
 Phone (541) 926-7634  
 Fax (541) 926-7539

34th AVENUE  
 PREPARED FOR:  
 CITY OF ALBANY

SANITARY SEWER FORCE MAIN REPLACEMENT  
 STA 49+50 TO 55+50

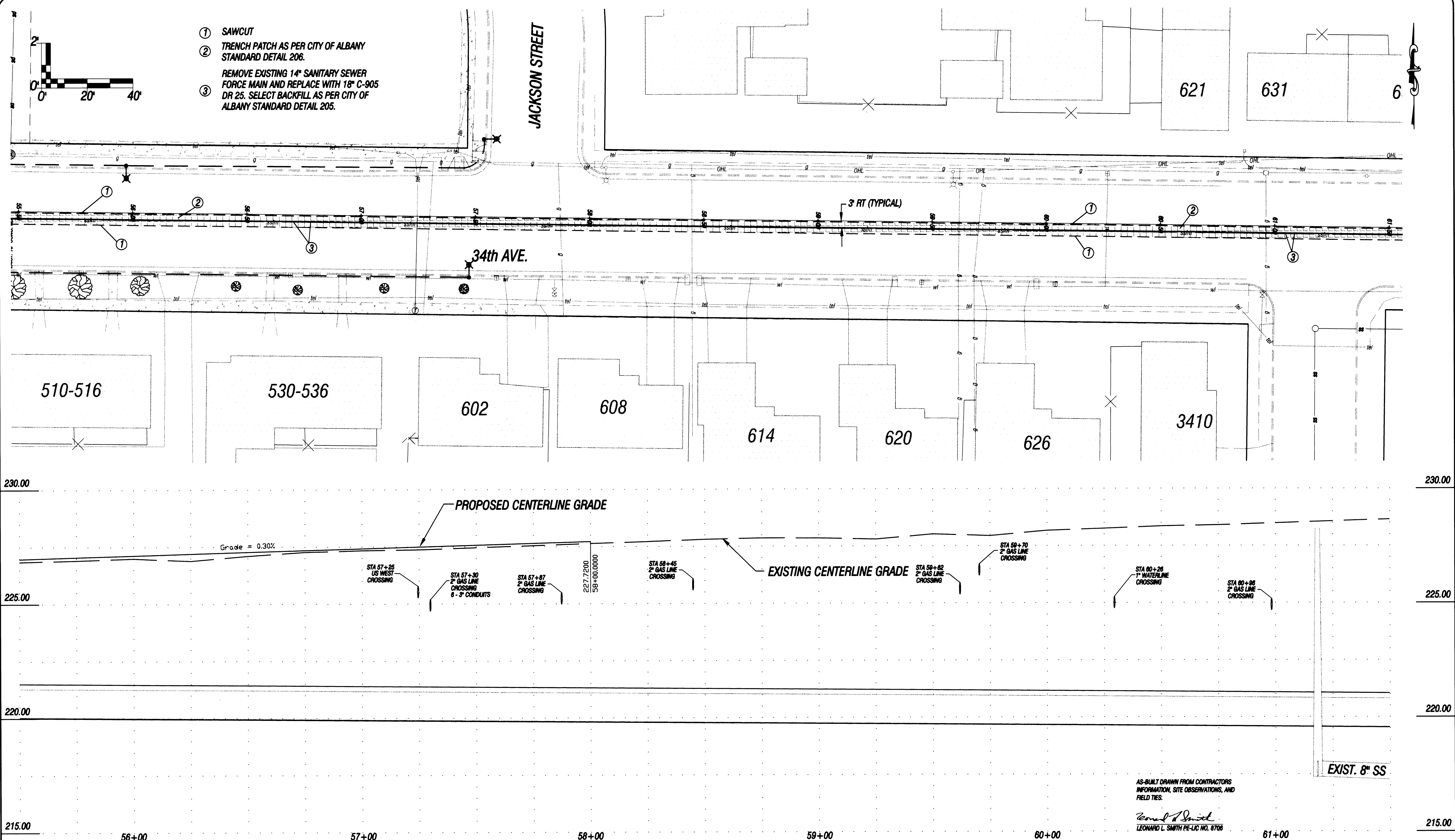
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DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH

SHEET	12 OF 33
DWG	SSFM-2
DATE	5/3/00
PROJECT	99-51

ST-99-4

AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.  
 Leonard L. Smith  
 LEONARD L. SMITH PE-LIC NO. 8706





2	5/3	100% SUBMITTAL	J.M. L.S.
1	4/11	90% SUBMITTAL	J.M. L.S.
NO.	DATE	REVISION	BY

**PacWest Engineering**  
 1530 Ninth Avenue SE  
 Albany, OR 97321  
 Phone (541) 926-7634  
 Fax (541) 926-7539

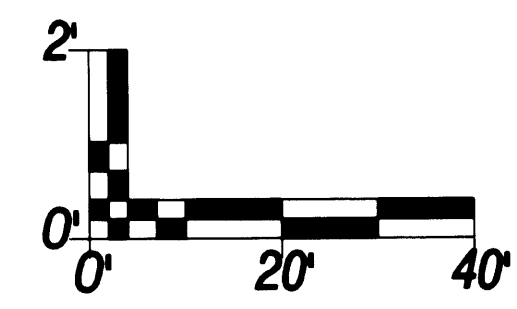
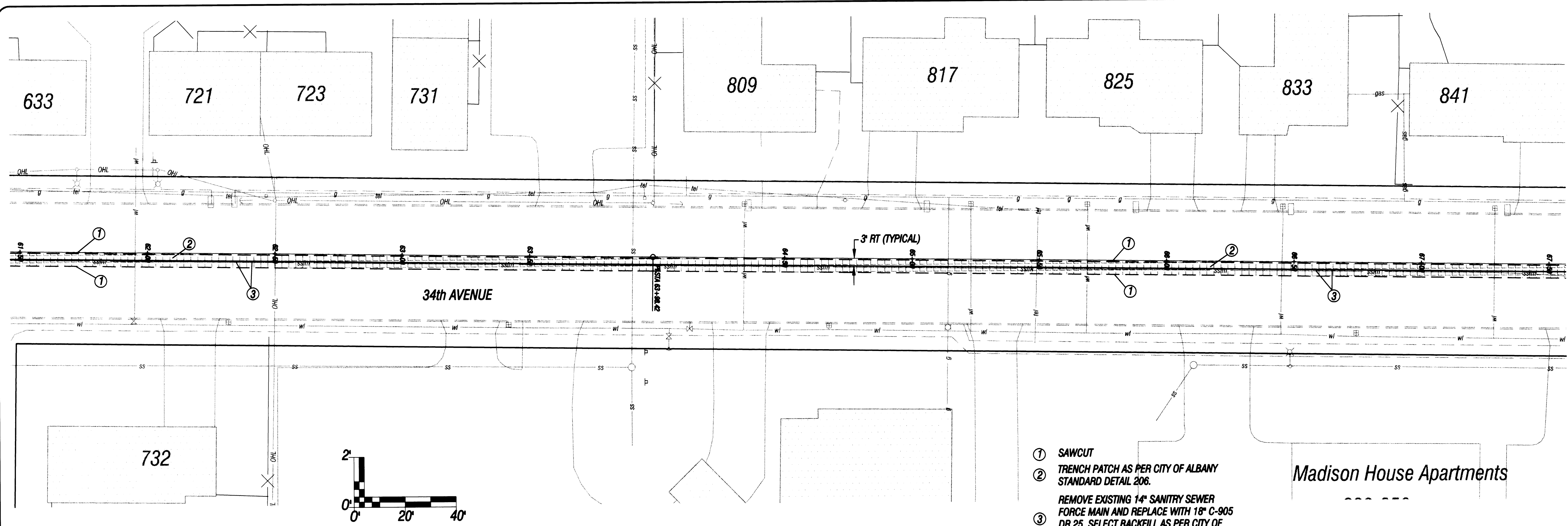
34th AVENUE  
 PREPARED FOR:  
 CITY OF ALBANY

SANITARY SEWER FORCE MAIN REPLACEMENT  
 STA 55+50 TO 61+50

DESIGN	C.HENDRICKSEN
DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH

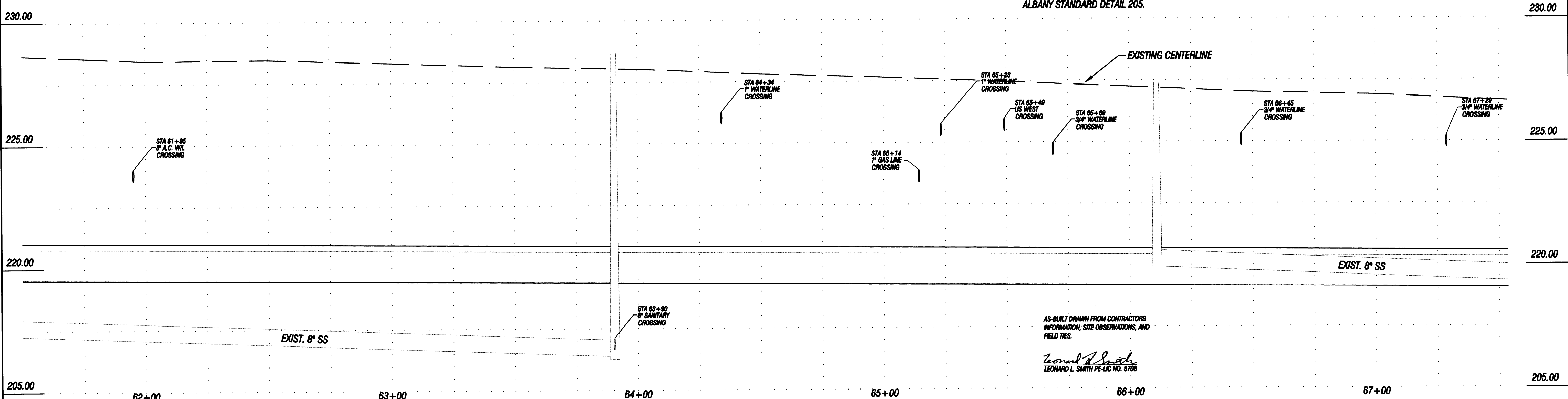
SHEET	13 OF 33
DWG	SSFM-3
DATE	5/3/00
PROJECT	99-51

**ST-99-4**



- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.

Madison House Apartments



AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.  
*Leonard L. Smith*  
 LEONARD L. SMITH PE-LIC NO. 8706

NO.	DATE	REVISION	BY	APVD
2	5/3	100% SUBMITTAL	J.M.	L.S.
1	4/11	90% SUBMITTAL	J.M.	L.S.

**PacWest ENGINEERING**  
 1530 Ninth Avenue SE  
 Albany, OR 97321  
 Phone (541) 926-7634  
 Fax (541) 926-7539

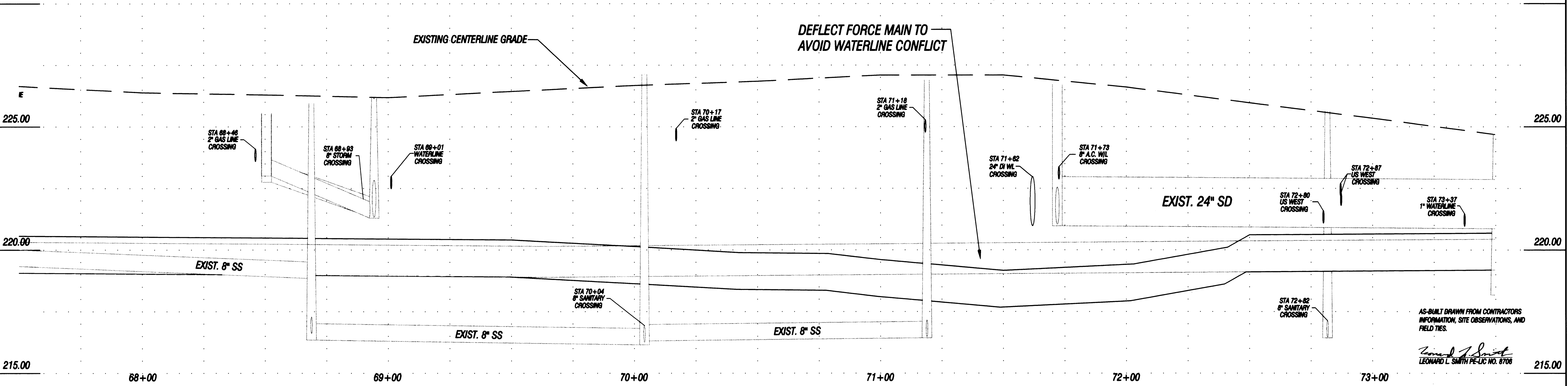
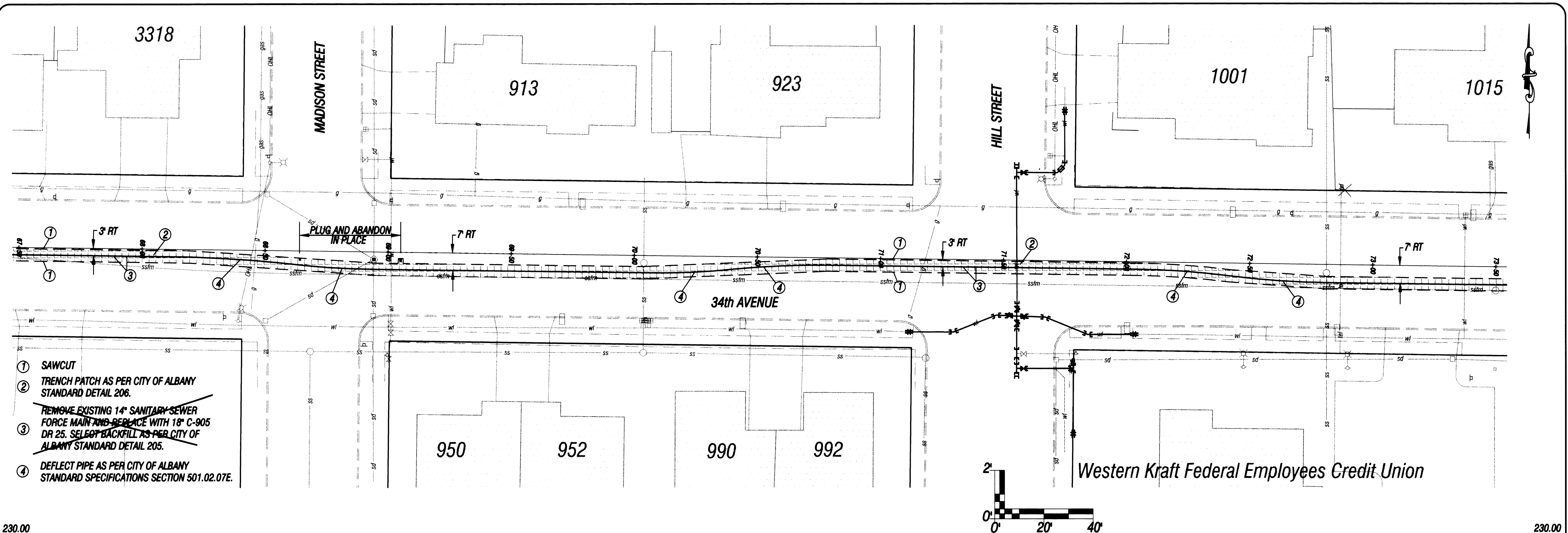
34th AVENUE  
 PREPARED FOR:  
 CITY OF ALBANY

SANITARY SEWER FORCE MAIN REPLACEMENT  
 STA 61+50 TO 67+50

DESIGN	C.HENDRICKSEN
DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH

SHEET	14 OF 33
DWG	SSFM-4
DATE	5/3/00
PROJECT	99-51

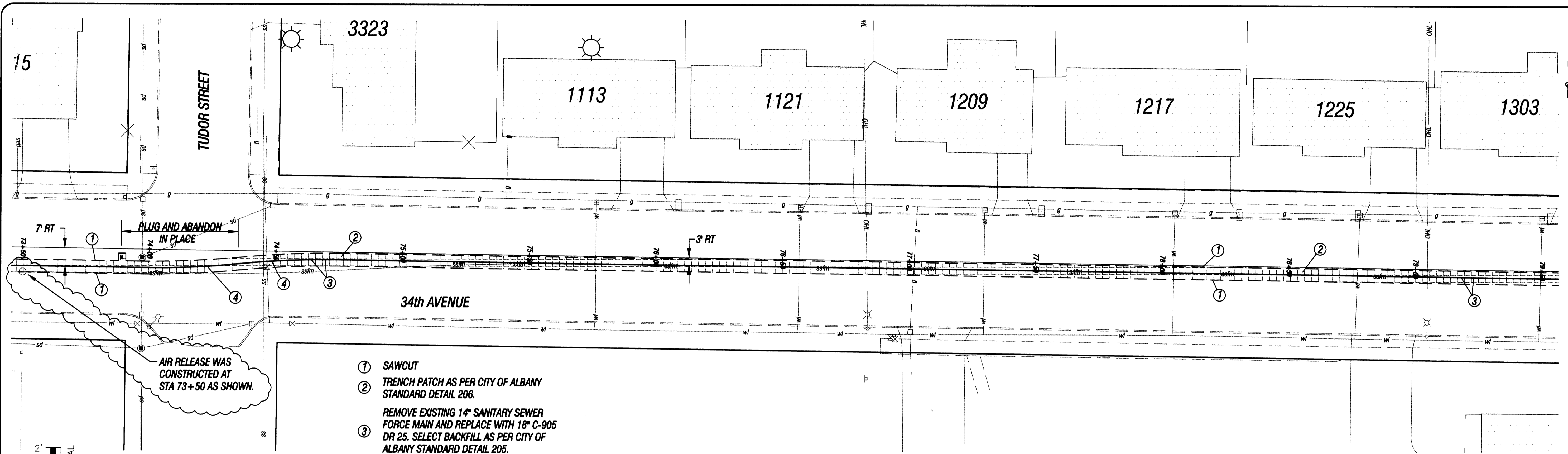
**ST-99-4**



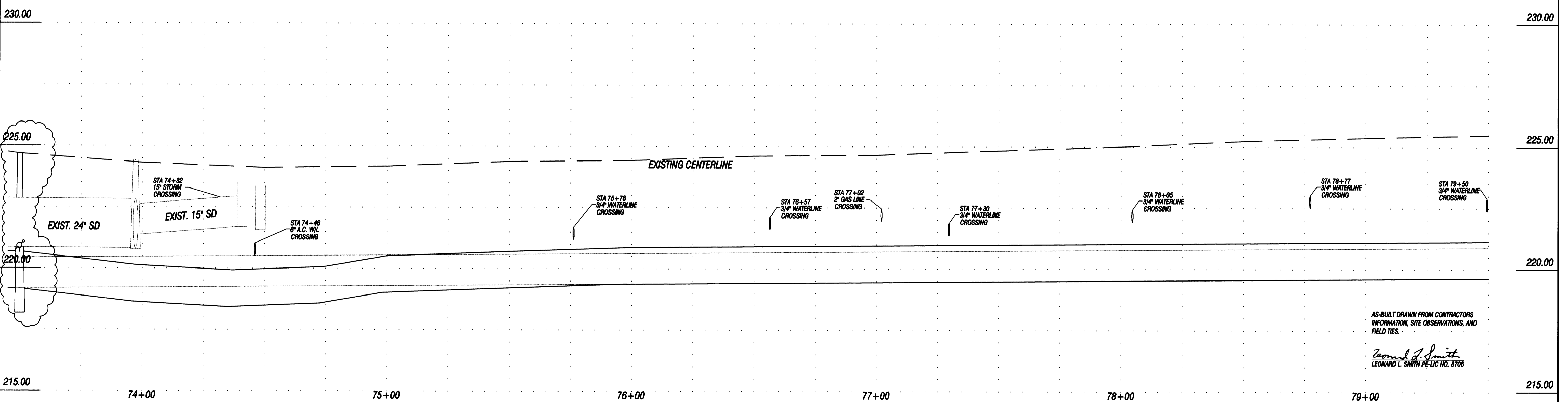
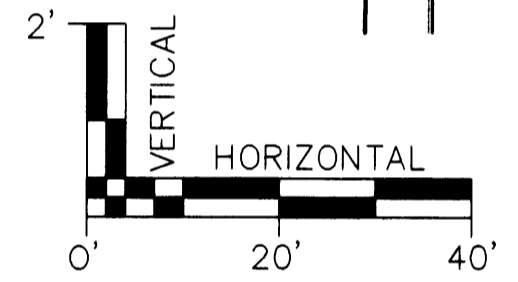
NO.	DATE	REVISION	BY	APVD	<b>PacWest Engineering</b> 1530 Ninth Avenue SE Albany, OR 97321 Phone (541) 926-7634 Fax (541) 926-7539	34th AVENUE PREPARED FOR: <b>CITY OF ALBANY</b>	SANITARY SEWER FORCE MAIN REPLACEMENT STA 67+50 TO 73+50	DESIGN	C.HENDRICKSEN		SHEET	15 OF 33
2	5/3	100% SUBMITTAL	J.M.	L.S.				DRAWN	C.HENDRICKSEN		DWG	SSFM-5
1	4/11	90% SUBMITTAL	J.M.	L.S.	CHECKED	B.SMITH	DATE	5/3/00				
					APPROVED	L.SMITH	PROJECT	99-51				

**ST-99-4**





- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.
- ④ DEFLECT PIPE AS PER CITY OF ALBANY STANDARD SPECIFICATIONS SECTION 501.02.07E.



AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.

*Leonard L. Smith*  
LEONARD L. SMITH PE-UC NO. 8706

2	5/3	100% SUBMITTAL	J.M. L.S.
1	4/11	90% SUBMITTAL	J.M. L.S.
NO.	DATE	REVISION	BY APVD

**PacWest ENGINEERING**  
1530 Ninth Avenue SE  
Albany, OR 97321  
Phone (541) 926-7634  
Fax (541) 926-7539

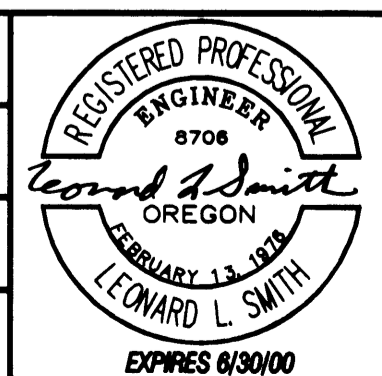
34th AVENUE

PREPARED FOR:  
CITY OF ALBANY

SANITARY SEWER FORCE MAIN REPLACEMENT

STA 73+50 TO 79+50

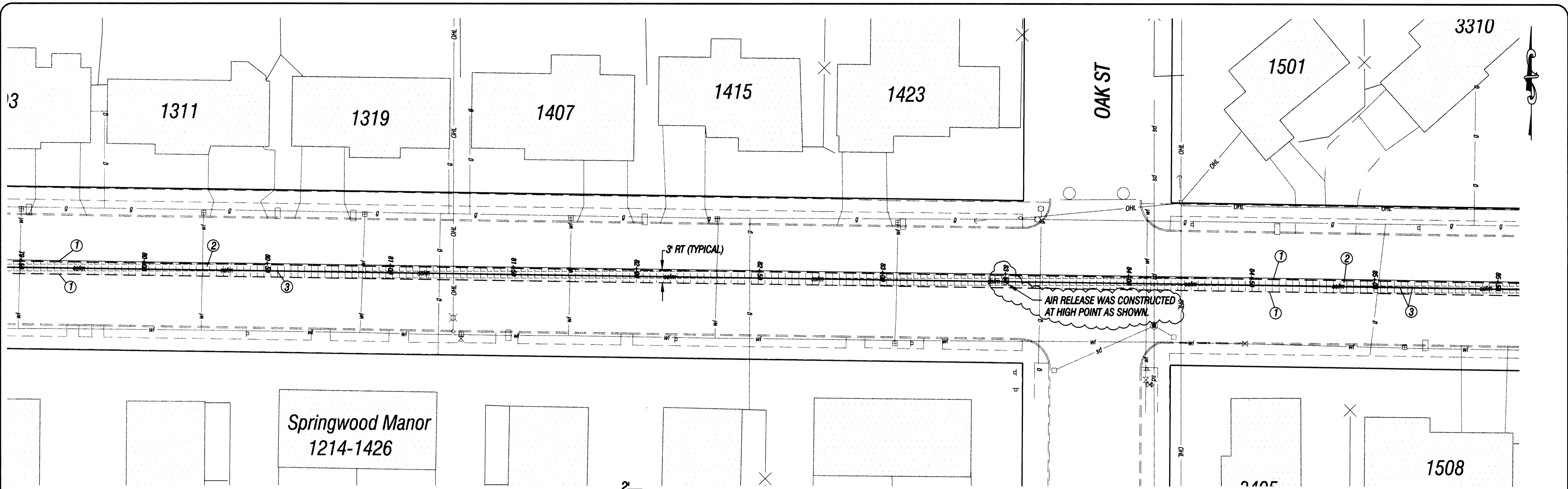
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DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH



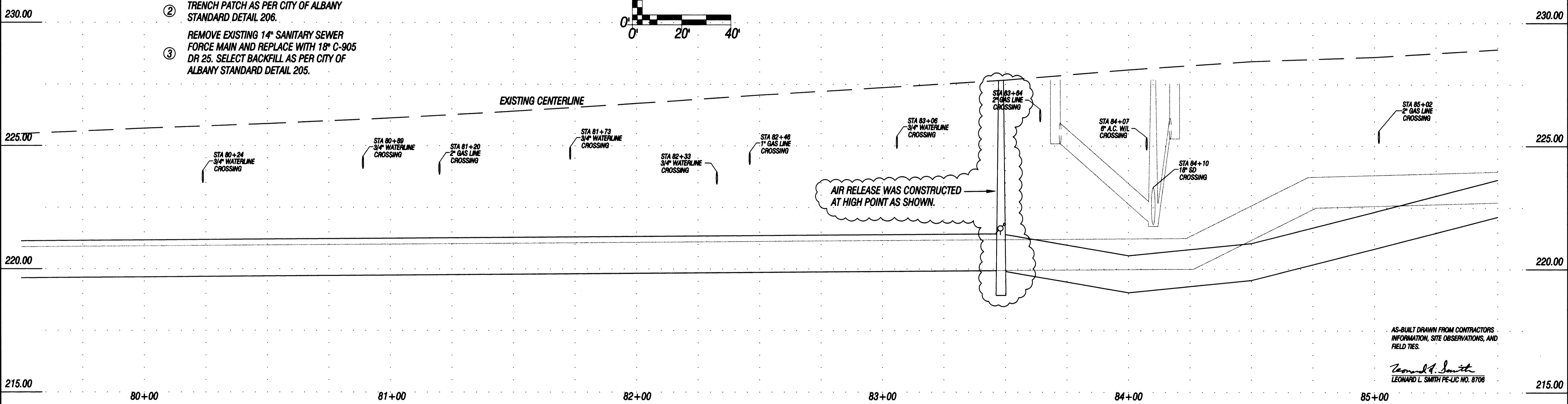
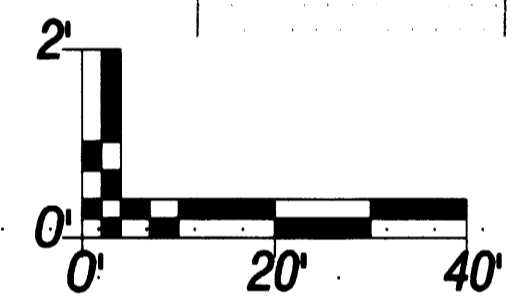
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DATE	5/3/00
PROJECT	99-51

**ST-99-4**





- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.



AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.  
*Leonard L. Smith*  
 LEONARD L. SMITH PE-LIC NO. 8706

NO.	DATE	REVISION	BY	APVD
2	5/3	100% SUBMITTAL	J.M.	L.S.
1	4/11	90% SUBMITTAL	J.M.	L.S.

**PacWest ENGINEERING**  
 1530 Ninth Avenue SE  
 Albany, OR 97321  
 Phone (541) 926-7634  
 Fax (541) 926-7539

34th AVENUE  
 PREPARED FOR:  
 CITY OF ALBANY

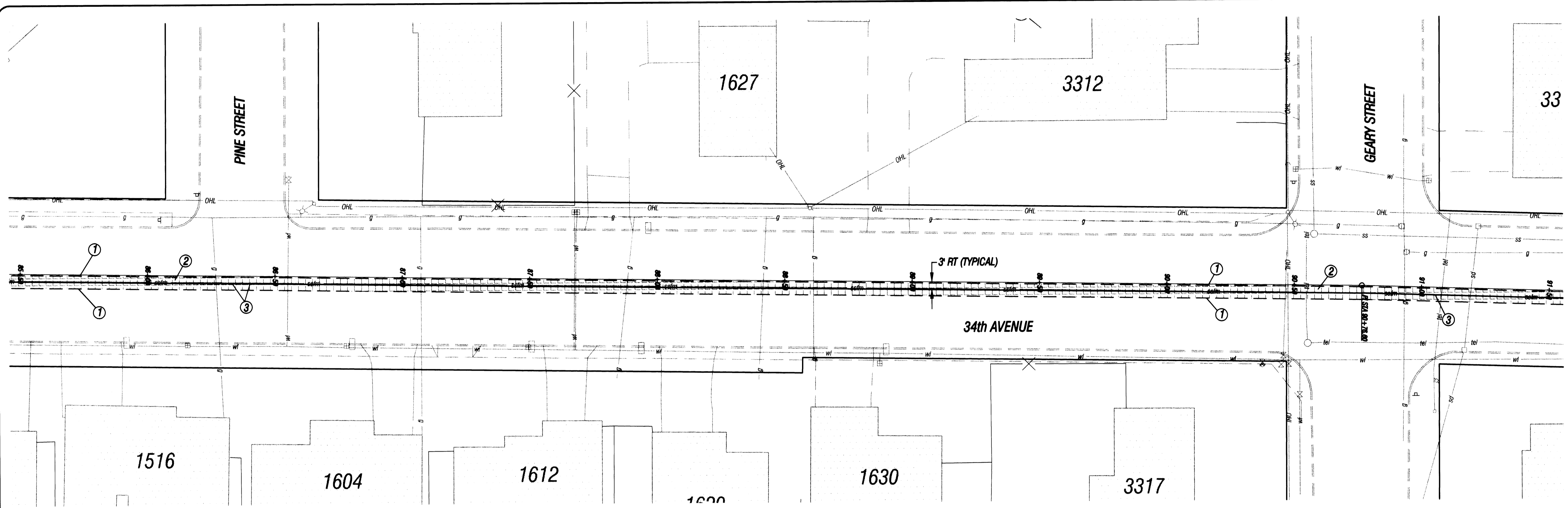
SANITARY SEWER FORCE MAIN REPLACEMENT  
 STA 79+50 TO 85+50

DESIGN	C.HENDRICKSEN
DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH

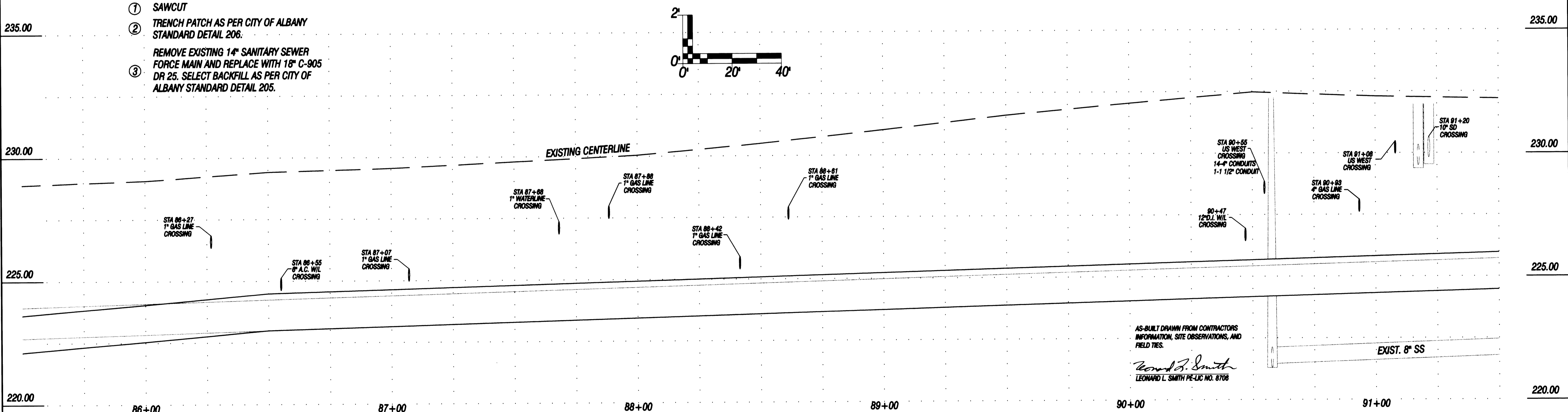
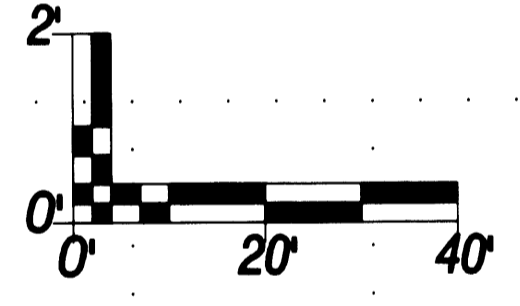
SHEET	17 OF 33
DWG	SSFM-7
DATE	5/3/00
PROJECT	99-51

**ST-99-4**



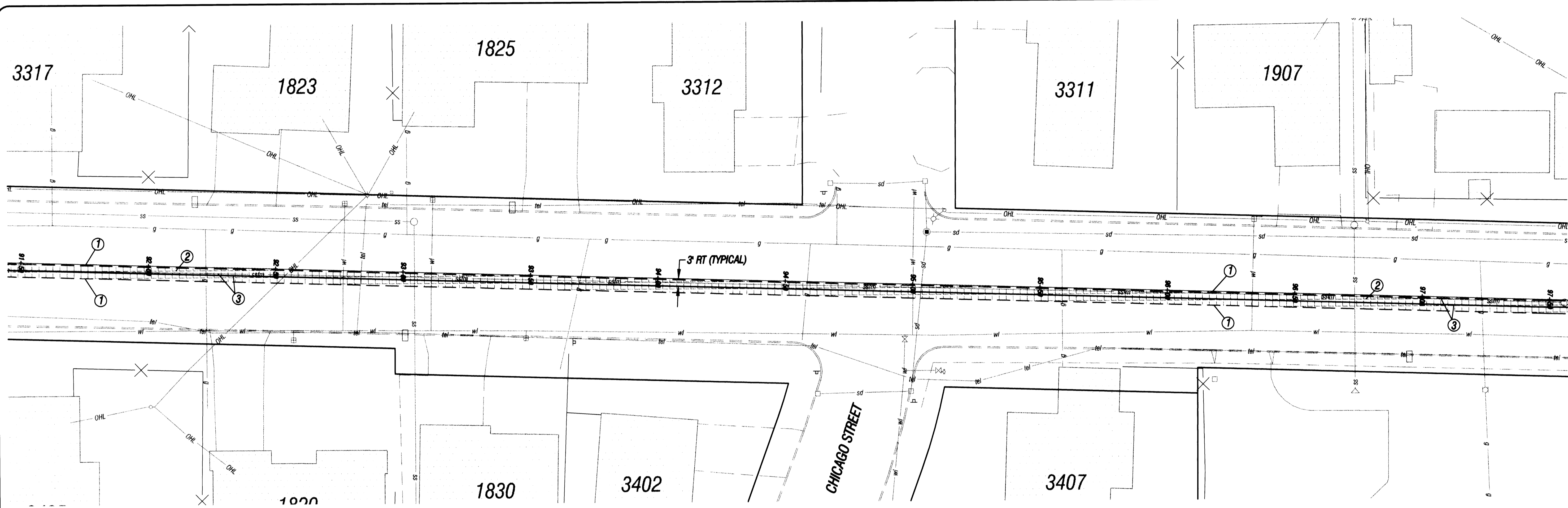


- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.

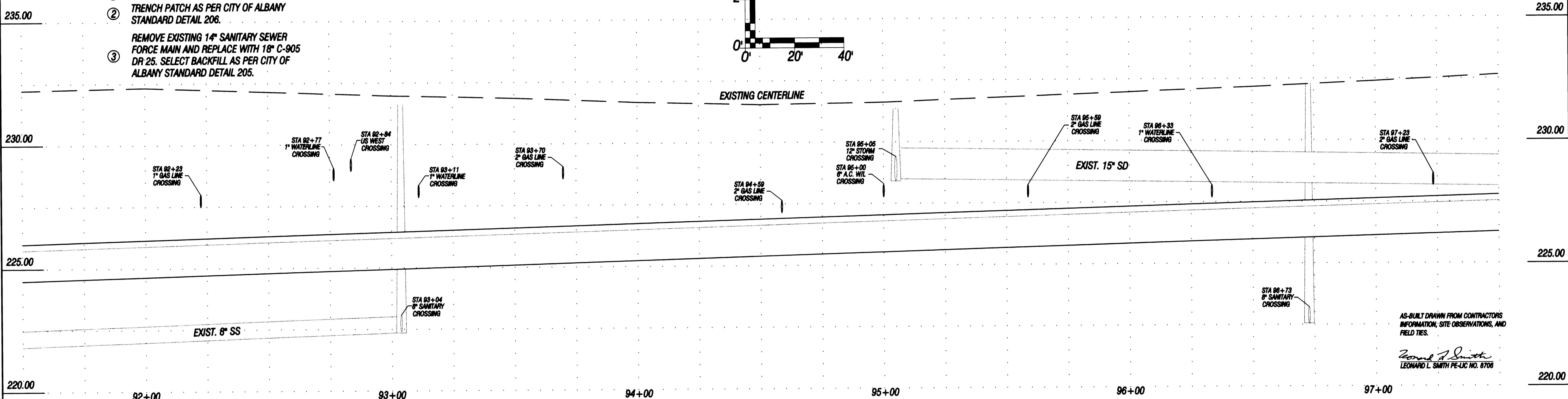
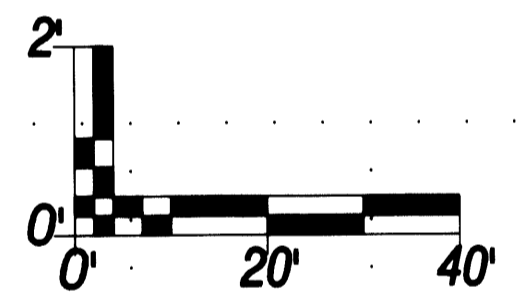


NO.	DATE	REVISION	BY	APVD	<b>PacWest ENGINEERING</b> 1530 Ninth Avenue SE Albany, OR 97321 Phone (541) 926-7634 Fax (541) 926-7539	<b>34th AVENUE</b>  PREPARED FOR: <b>CITY OF ALBANY</b>	<b>SANITARY SEWER FORCE MAIN REPLACEMENT</b>  <b>STA 85+50 TO 91+50</b>	DESIGN	C.HENDRICKSEN		SHEET	18 OF 33
2	5/3	100% SUBMITTAL	J.M.L.S.	DRAWN				C.HENDRICKSEN	DWG		SSFM-8	
1	4/11	90% SUBMITTAL	J.M.L.S.	CHECKED				B.SMITH	DATE		5/3/00	
				APPROVED				L.SMITH	PROJECT		99-51	

**ST-99-9**



- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.



AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.  
*Leonard L. Smith*  
 LEONARD L. SMITH PE LIC NO. 8706

NO.	DATE	REVISION	BY	APVD
2	5/3	100% SUBMITTAL	J.M. L.S.	
1	4/11	90% SUBMITTAL	J.M. L.S.	

**PacWest ENGINEERING**  
 1530 Ninth Avenue SE  
 Albany, OR 97321  
 Phone (541) 926-7634  
 Fax (541) 926-7539

34th AVENUE  
 PREPARED FOR:  
 CITY OF ALBANY

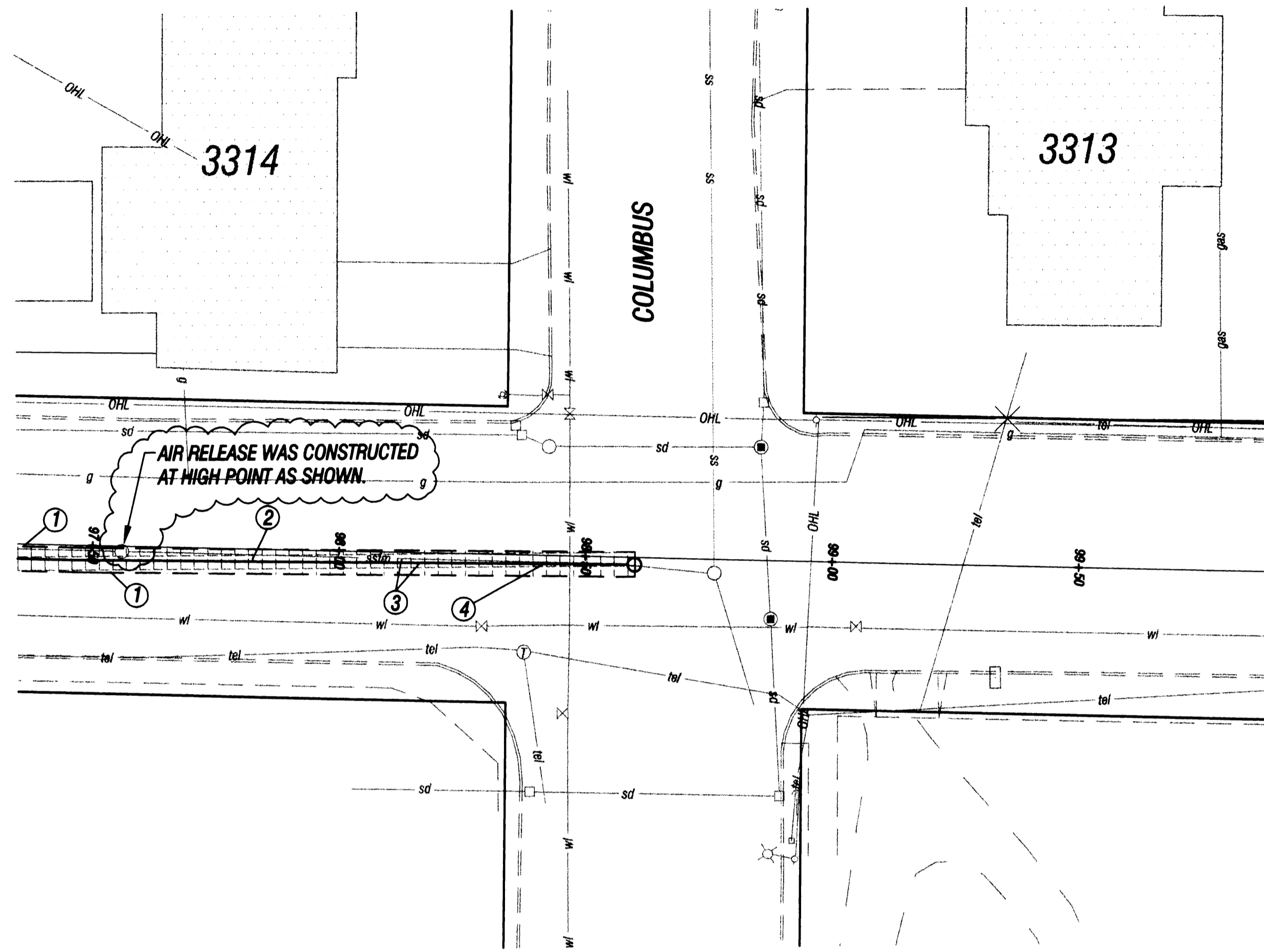
SANITARY SEWER FORCE MAIN REPLACEMENT  
 STA 91+50 TO 97+50

DESIGN	C.HENDRICKSEN
DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH

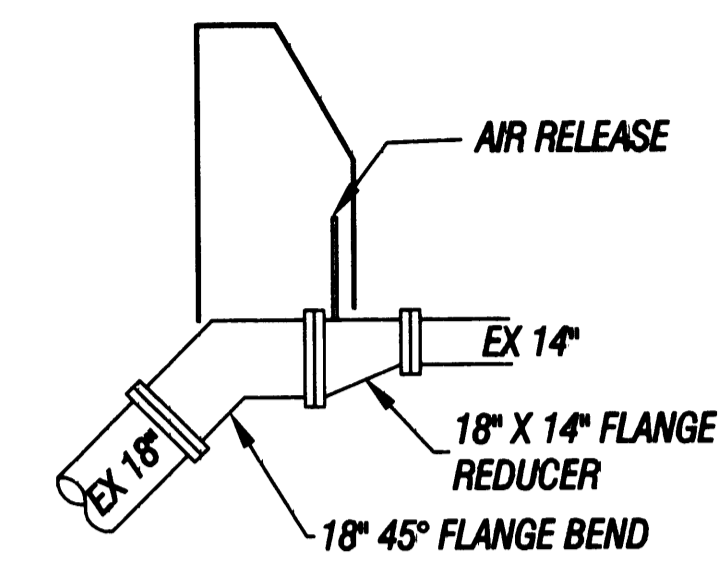
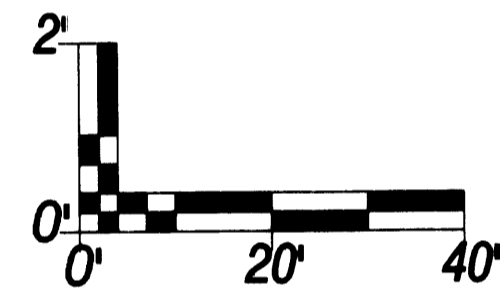
SHEET	19 OF 33
DWG	SSFM-9
DATE	5/3/00
PROJECT	99-51

**ST-99-9**

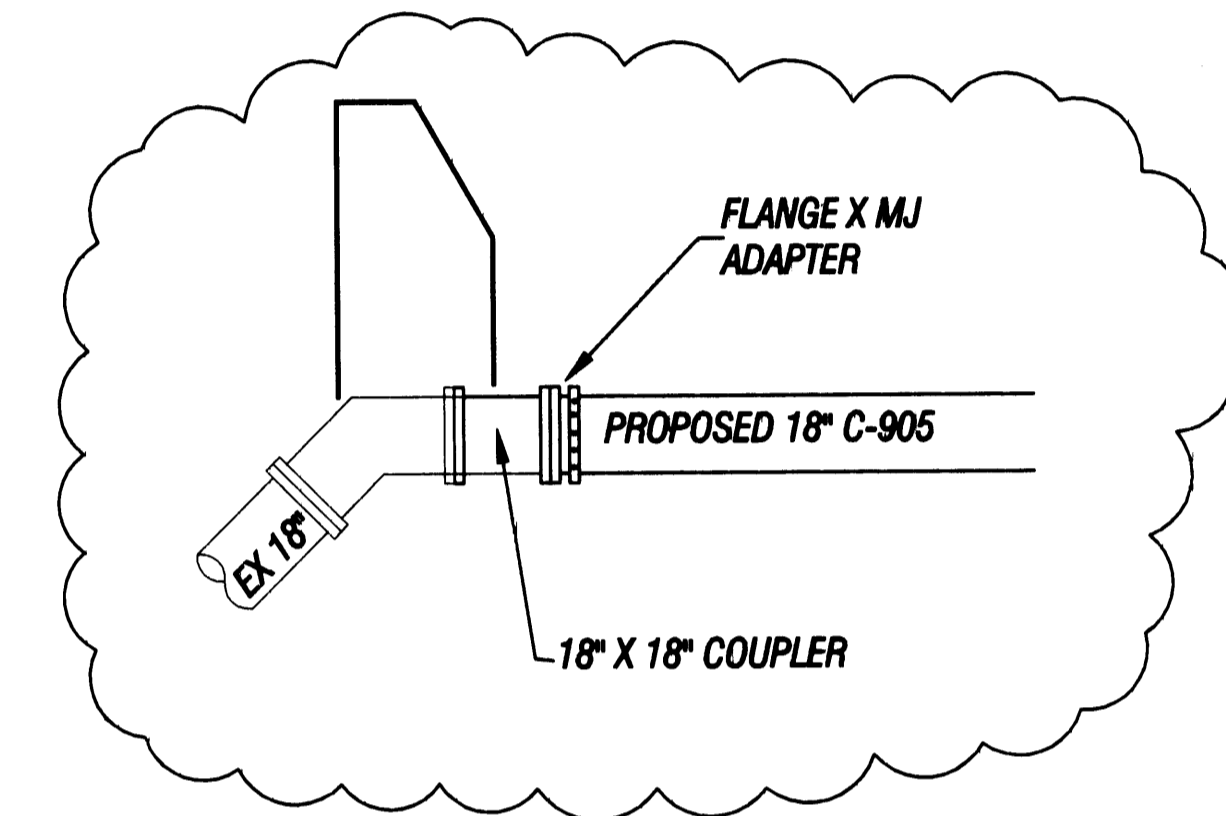




- ① SAWCUT
- ② TRENCH PATCH AS PER CITY OF ALBANY STANDARD DETAIL 206.
- ③ REMOVE EXISTING 14" SANITARY SEWER FORCE MAIN AND REPLACE WITH 18" C-905 DR 25. SELECT BACKFILL AS PER CITY OF ALBANY STANDARD DETAIL 205.
- ④ DEFLECT PIPE AS PER CITY OF ALBANY STANDARD SPECIFICATIONS SECTION 501.02.07E.

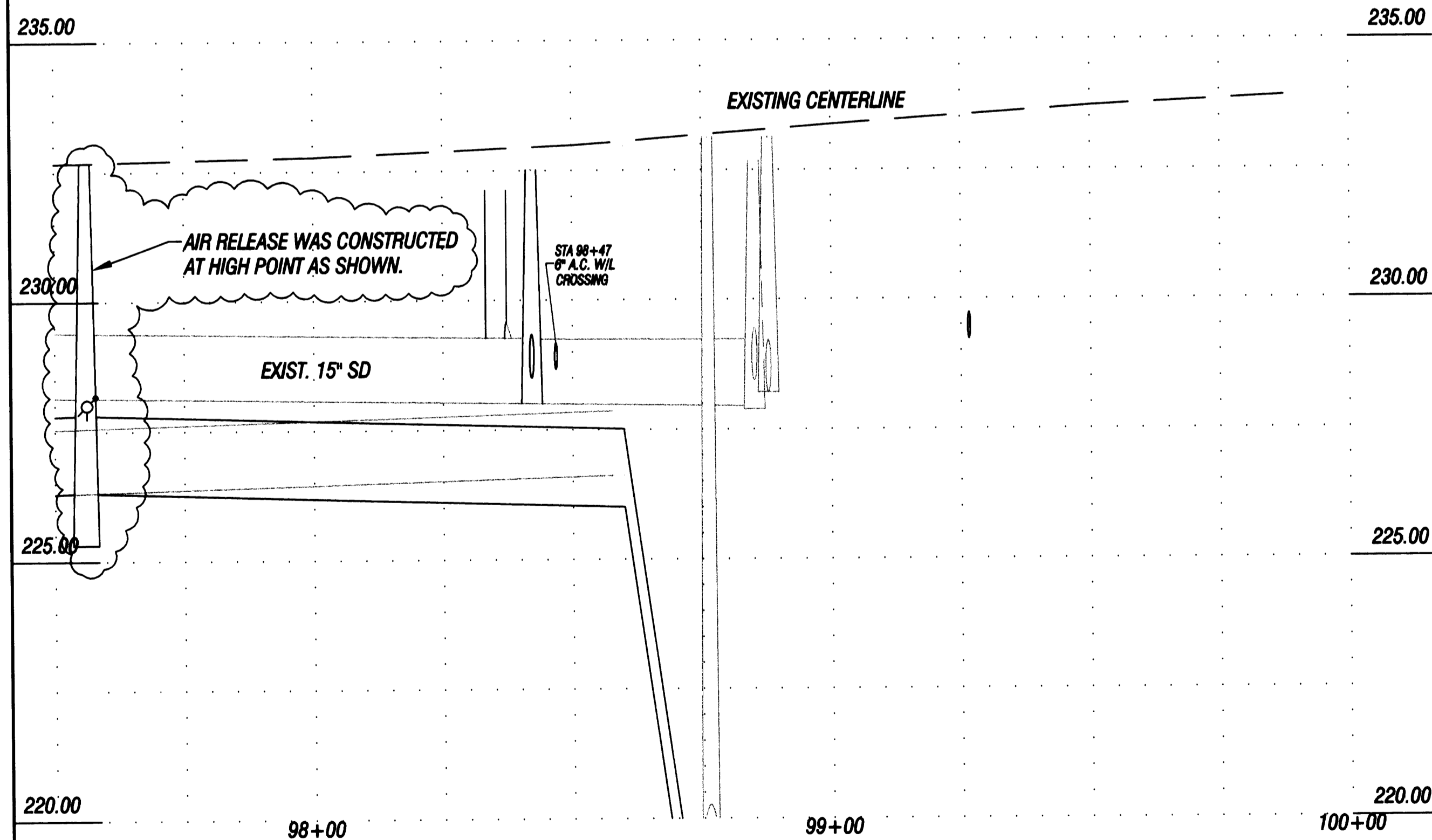


EXISTING CONFIGURATION



PROPOSED CONFIGURATION

SANITARY SEWER  
DETAIL 1



AS-BUILT DRAWN FROM CONTRACTORS INFORMATION, SITE OBSERVATIONS, AND FIELD TIES.

*Leonard L. Smith*  
LEONARD L. SMITH PE-LIC NO. 8706

NO.	DATE	REVISION	BY	APVD
2	5/3	100% SUBMITTAL	J.M.	L.S.
1	4/11	90% SUBMITTAL	J.M.	L.S.



**PacWest ENGINEERING**  
1530 Ninth Avenue SE  
Albany, OR 97321  
Phone (541) 926-7634  
Fax (541) 926-7539

34th AVENUE

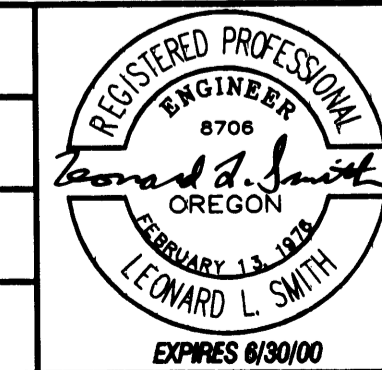
PREPARED FOR:  
CITY OF ALBANY



SANITARY SEWER FORCE MAIN REPLACEMENT

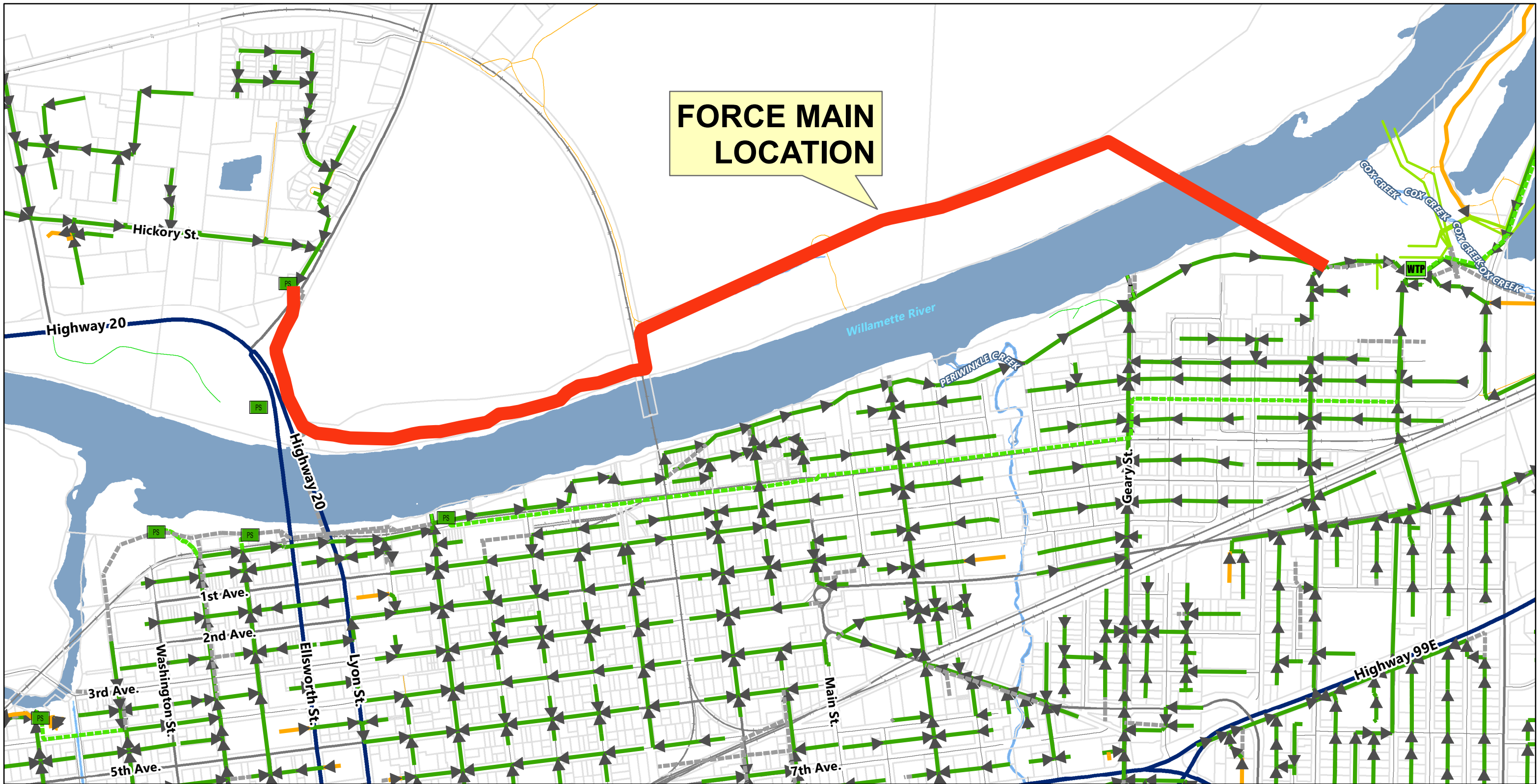
STA 97+50 TO 100+00

DESIGN	C.HENDRICKSEN
DRAWN	C.HENDRICKSEN
CHECKED	B.SMITH
APPROVED	L.SMITH



SHEET	20 OF 33
DWG	SSFM-10
DATE	5/3/00
PROJECT	99-51

**ST-99-4**

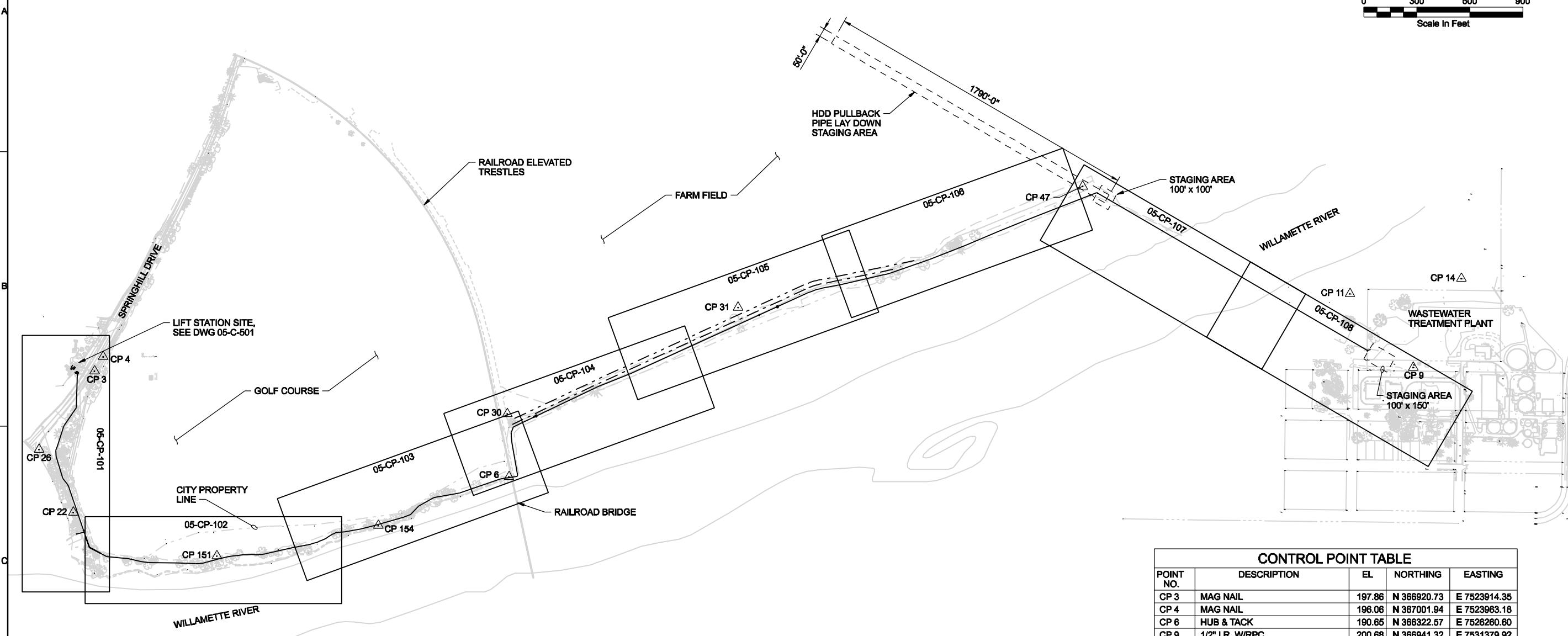
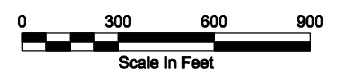


**NORTH ALBANY FORCE MAIN VICINITY MAP**









CONTROL POINT TABLE				
POINT NO.	DESCRIPTION	EL	NORTHING	EASTING
CP 3	MAG NAIL	197.86	N 366920.73	E 7523914.35
CP 4	MAG NAIL	196.06	N 367001.94	E 7523963.18
CP 6	HUB & TACK	190.65	N 366322.57	E 7526260.60
CP 9	1/2" I.R. W/RPC	200.68	N 366941.32	E 7531379.92
CP 11	1/2" I.R. W/RPC	181.94	N 367359.02	E 7531021.43
CP 14	1/2" I.R. W/RPC	173.58	N 367444.73	E 7531651.92
CP 22	HUB & TACK	199.14	N 366120.98	E 7523794.38
CP 26	MAG NAIL	209.65	N 366477.09	E 7523600.25
CP 30	HUB & TACK	192.75	N 366676.60	E 7526251.45
CP 31	MAG NAIL	191.98	N 367281.15	E 7527558.00
CP 47	1/2" I.R. W/RPC	187.76	N 367967.22	E 7529508.74
CP 151	HUB & TACK	190.50	N 365873.92	E 7524607.12
CP 154	HUB & TACK	185.23	N 366046.35	E 7525520.62

**SITE PLAN**

THE CONTRACT DOCUMENT DRAWINGS WHICH DEFINE THE CHARACTER OF THE PROJECT, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

RECORD DRAWINGS	REVISION	CHK	APVD	CW MASSIE
NO. DATE	05/2010	DR	JA BOOTH	RE BROWN
BY	SRR	BY	APVD	KLM

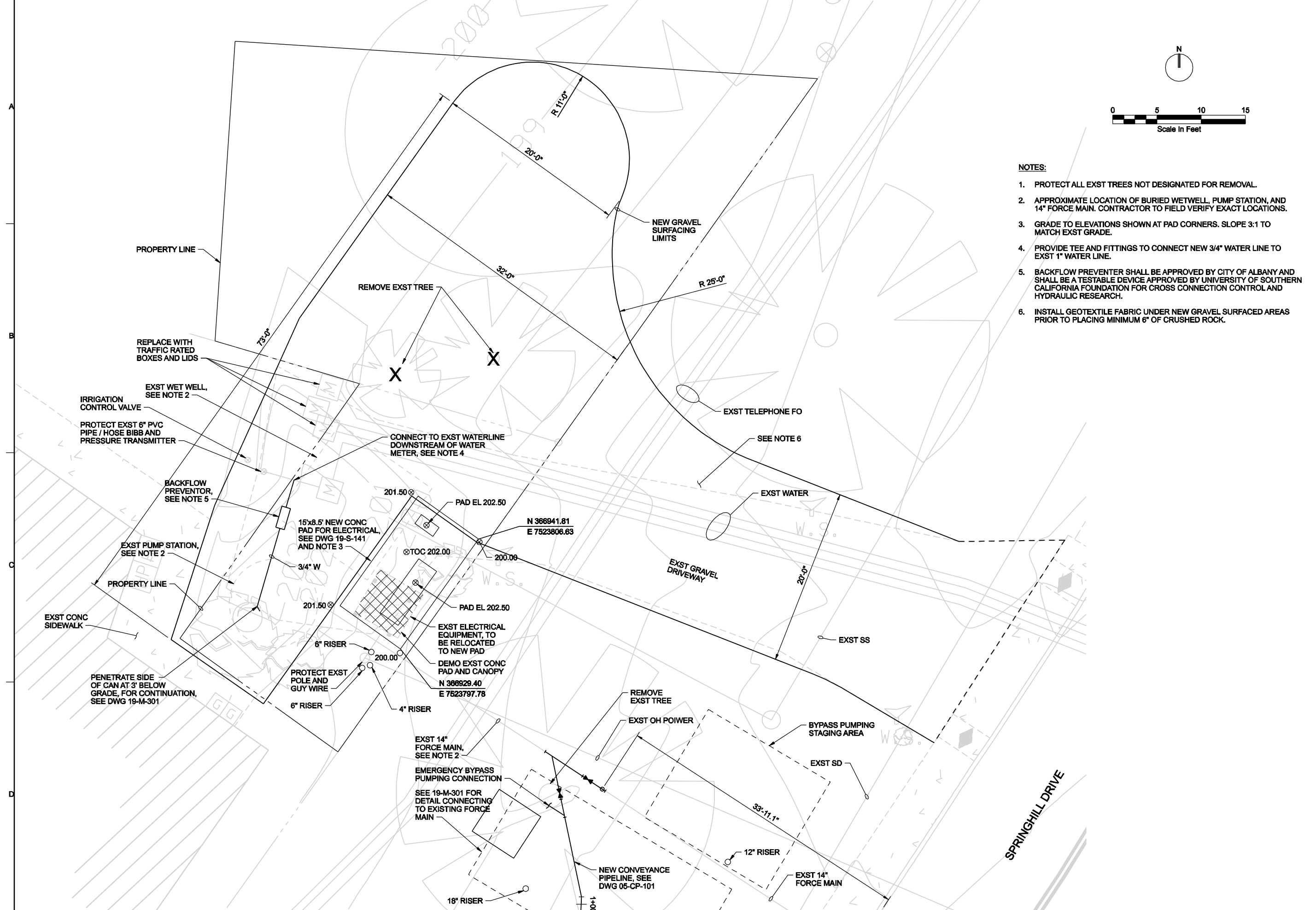
NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

**CH2MHILL**

SITE DEVELOPMENT  
CIVIL  
OVERALL SITE PLAN

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	FEB 2009
PROJ	326918PL
DWG	05-C-100
SHEET	013





- NOTES:**
1. PROTECT ALL EXST TREES NOT DESIGNATED FOR REMOVAL.
  2. APPROXIMATE LOCATION OF BURIED WETWELL, PUMP STATION, AND 14" FORCE MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS.
  3. GRADE TO ELEVATIONS SHOWN AT PAD CORNERS. SLOPE 3:1 TO MATCH EXST GRADE.
  4. PROVIDE TEE AND FITTINGS TO CONNECT NEW 3/4" WATER LINE TO EXST 1" WATER LINE.
  5. BACKFLOW PREVENTOR SHALL BE APPROVED BY CITY OF ALBANY AND SHALL BE A TESTABLE DEVICE APPROVED BY UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
  6. INSTALL GEOTEXTILE FABRIC UNDER NEW GRAVEL SURFACED AREAS PRIOR TO PLACING MINIMUM 6" OF CRUSHED ROCK.

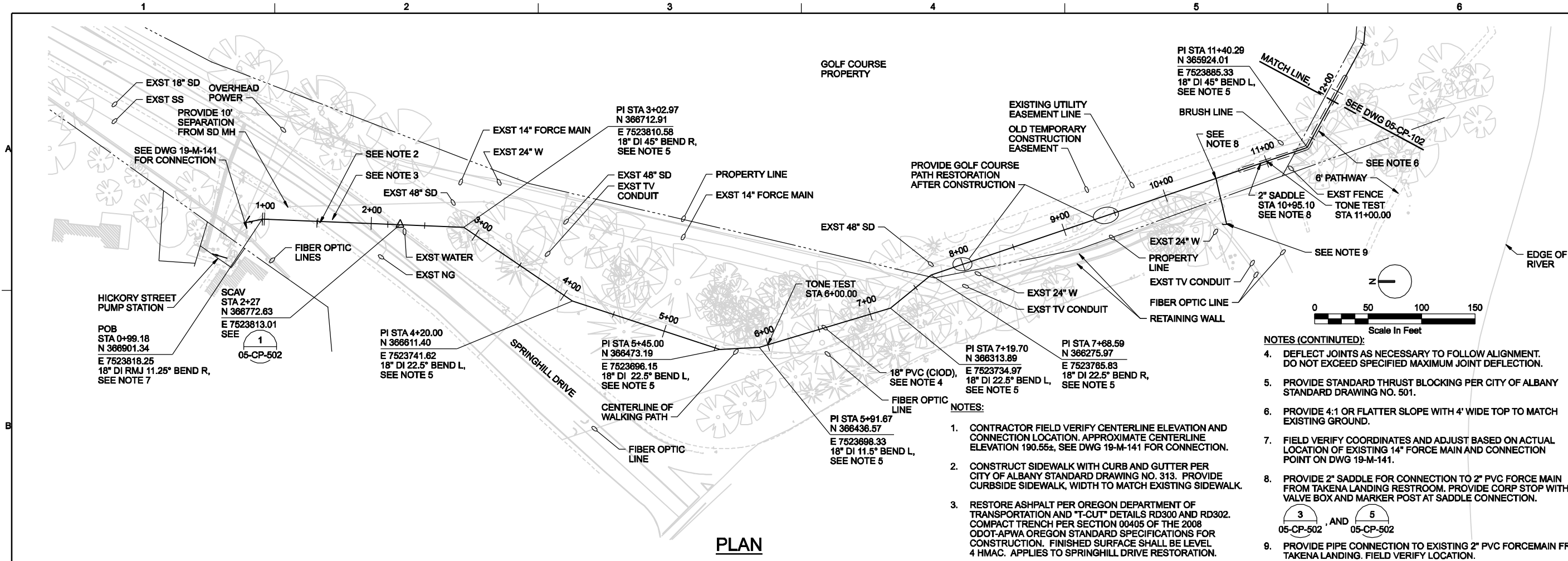
THE CONTRACT DOCUMENT DRAWINGS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

RECORD DRAWINGS	REVISION	CHK	APVD	CW MASSIE
05/2010	NO.	DATE	DR	JA BOOTH
				RE BROWN
				DJ PETERSON

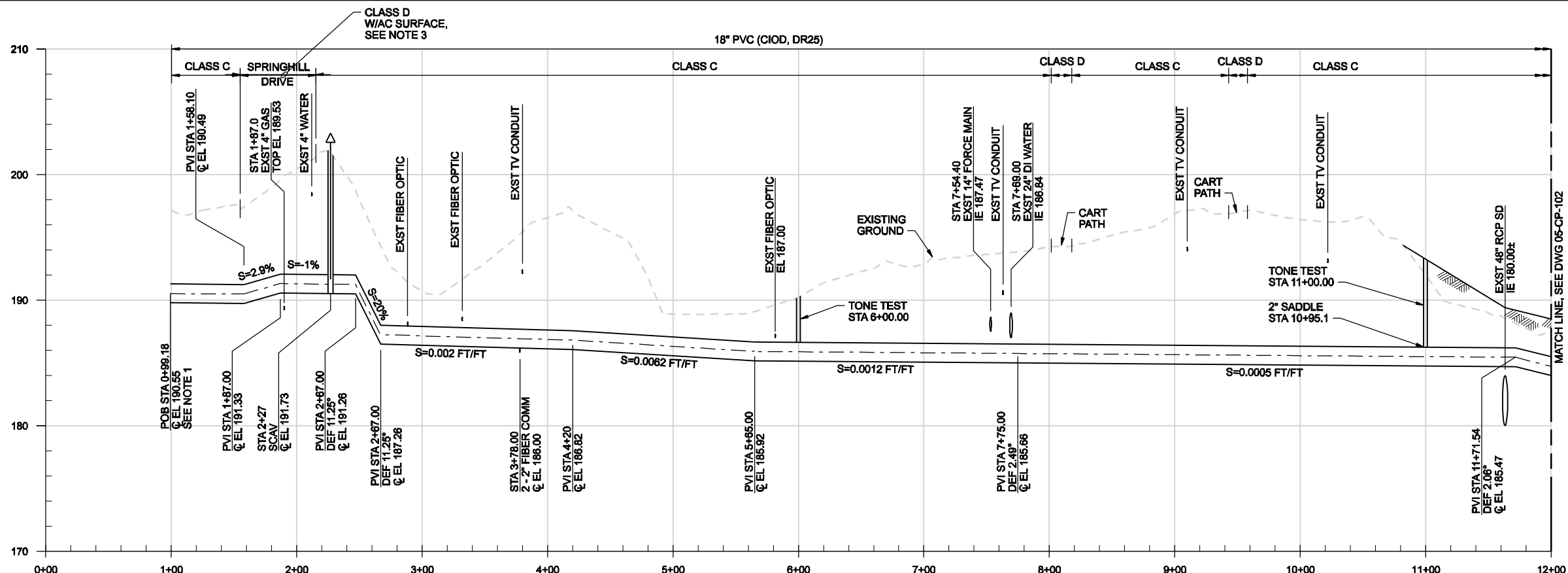
NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

**CH2MHILL**  
SITE DEVELOPMENT  
CIVIL  
SITE PLAN DETAILS

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	FEB 2009
PROJ	326918PL
DWG	05-C-501
SHEET	014



**PLAN**



**PROFILE**

HORIZ: 1"=50'  
VERT: 1"=5'

- NOTES:**
1. CONTRACTOR FIELD VERIFY CENTERLINE ELEVATION AND CONNECTION LOCATION. APPROXIMATE CENTERLINE ELEVATION 190.55±, SEE DWG 19-M-141 FOR CONNECTION.
  2. CONSTRUCT SIDEWALK WITH CURB AND GUTTER PER CITY OF ALBANY STANDARD DRAWING NO. 313. PROVIDE CURBSIDE SIDEWALK, WIDTH TO MATCH EXISTING SIDEWALK.
  3. RESTORE ASPHALT PER OREGON DEPARTMENT OF TRANSPORTATION AND "T-CUT" DETAILS RD300 AND RD302. COMPACT TRENCH PER SECTION 00405 OF THE 2008 ODOT-APWA OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. FINISHED SURFACE SHALL BE LEVEL 4 HMAC. APPLIES TO SPRINGHILL DRIVE RESTORATION.

- NOTES (CONTINUED):**
4. DEFLECT JOINTS AS NECESSARY TO FOLLOW ALIGNMENT. DO NOT EXCEED SPECIFIED MAXIMUM JOINT DEFLECTION.
  5. PROVIDE STANDARD THRUST BLOCKING PER CITY OF ALBANY STANDARD DRAWING NO. 501.
  6. PROVIDE 4:1 OR FLATTER SLOPE WITH 4' WIDE TOP TO MATCH EXISTING GROUND.
  7. FIELD VERIFY COORDINATES AND ADJUST BASED ON ACTUAL LOCATION OF EXISTING 14" FORCE MAIN AND CONNECTION POINT ON DWG 19-M-141.
  8. PROVIDE 2" SADDLE FOR CONNECTION TO 2" PVC FORCE MAIN FROM TAKENA LANDING RESTROOM. PROVIDE CORP STOP WITH VALVE BOX AND MARKER POST AT SADDLE CONNECTION.
  9. PROVIDE PIPE CONNECTION TO EXISTING 2" PVC FORCE MAIN FROM TAKENA LANDING. FIELD VERIFY LOCATION.

THE CONTRACT DOCUMENTS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

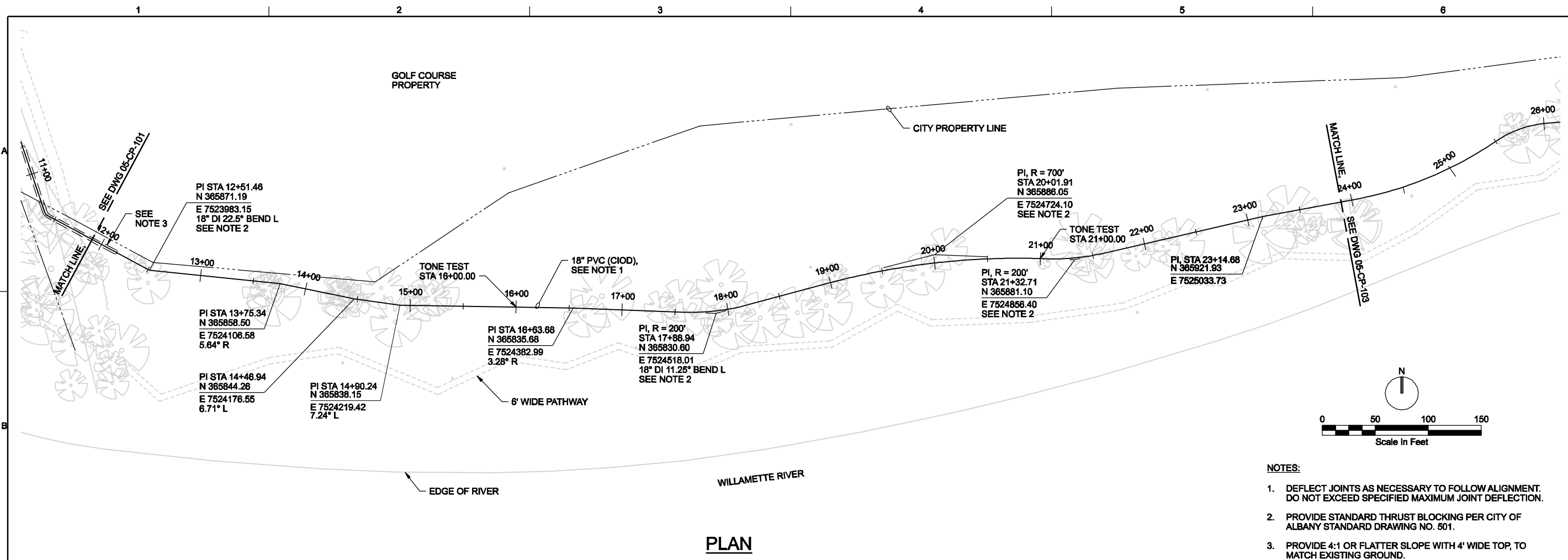
RECORD DRAWINGS	NO. DATE	REVISION	CHK	APVD	BY	KLM
	05/2010		SR REDDELL	CD WOLFF	DR	
			SR REDDELL	CD WOLFF	DR	
			SR REDDELL	CD WOLFF	DR	

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

**CH2MHILL**  
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
PLAN AND PROFILE  
STA 0+00 TO 12+00

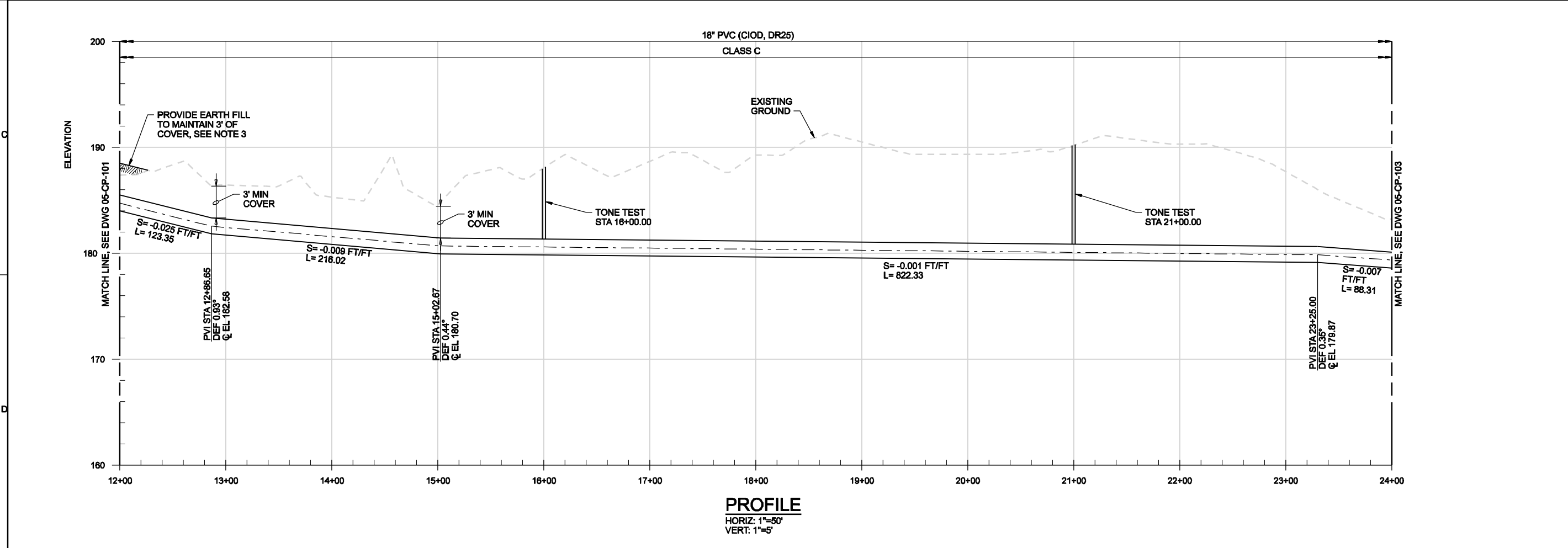
VERIFY SCALE	DATE	FEB 2009
BAR IS ONE INCH ON ORIGINAL DRAWING.	PROJ	326918PL
	DWG	05-CP-101
	SHEET	015





**PLAN**

- NOTES:**
1. DEFLECT JOINTS AS NECESSARY TO FOLLOW ALIGNMENT. DO NOT EXCEED SPECIFIED MAXIMUM JOINT DEFLECTION.
  2. PROVIDE STANDARD THRUST BLOCKING PER CITY OF ALBANY STANDARD DRAWING NO. 501.
  3. PROVIDE 4:1 OR FLATTER SLOPE WITH 4' WIDE TOP, TO MATCH EXISTING GROUND.



**PROFILE**  
HORIZ: 1"=50'  
VERT: 1"=5'

THE CONTRACT DOCUMENTS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

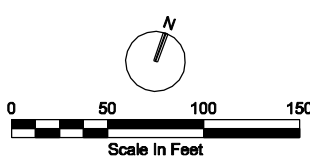
RECORD DRAWINGS	REVISION	CHK	APVD	BY	KLM	SRR
05/2010	NO.	DATE	DGN	DR	CD WOLFF	CW MASSIE
					SR REDDELL	DJ PETERSON

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

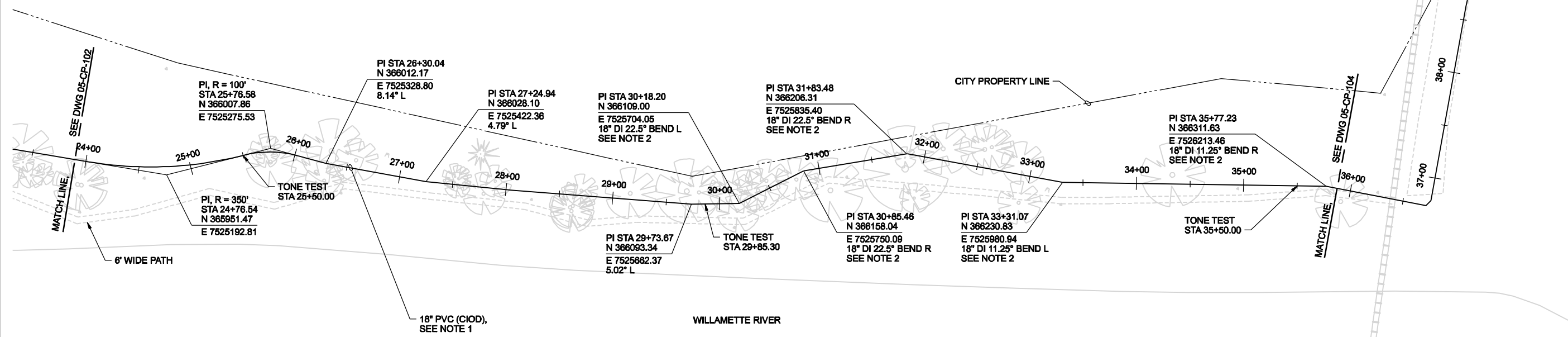
**CH2MHILL**  
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
PLAN AND PROFILE  
STA 12+00 TO 24+00

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	FEB 2009
PROJ	326918PL
DWG	05-CP-102
SHEET	016

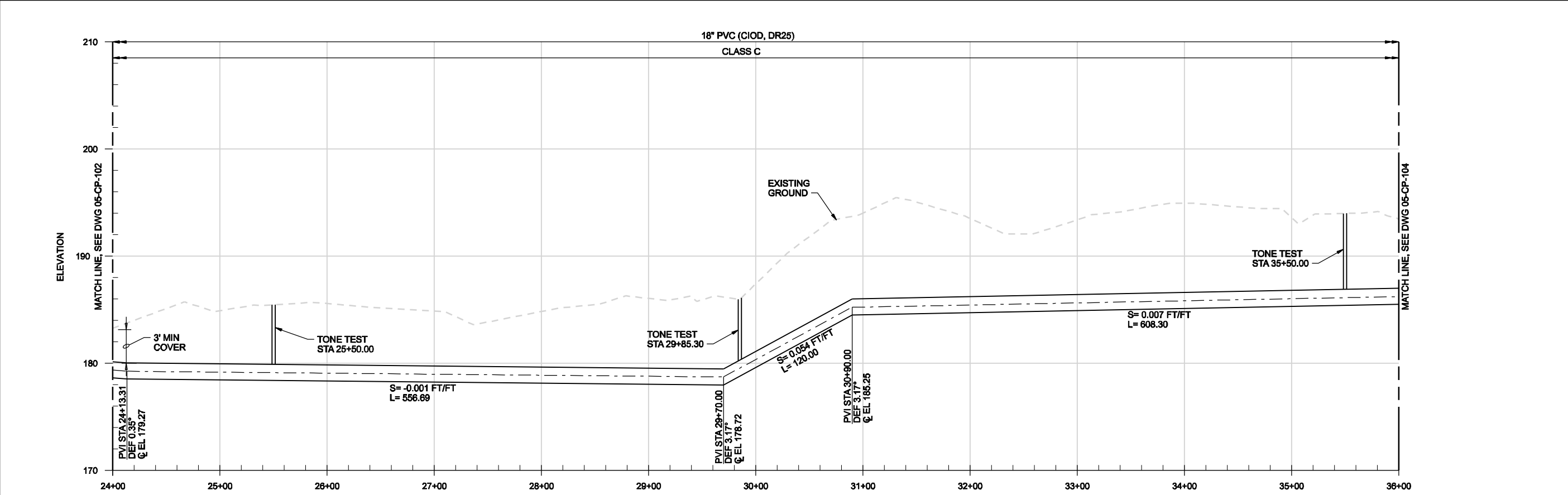
1 2 3 4 5 6



- NOTES:**
- DEFLECT JOINTS AS NECESSARY TO FOLLOW ALIGNMENT. DO NOT EXCEED SPECIFIED MAXIMUM JOINT DEFLECTION.
  - PROVIDE STANDARD THRUST BLOCKING PER CITY OF ALBANY STANDARD DRAWING NO. 501.



**PLAN**



**PROFILE**  
 HORIZ: 1"=50'  
 VERT: 1"=5'

THE CONTRACT DOCUMENTS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

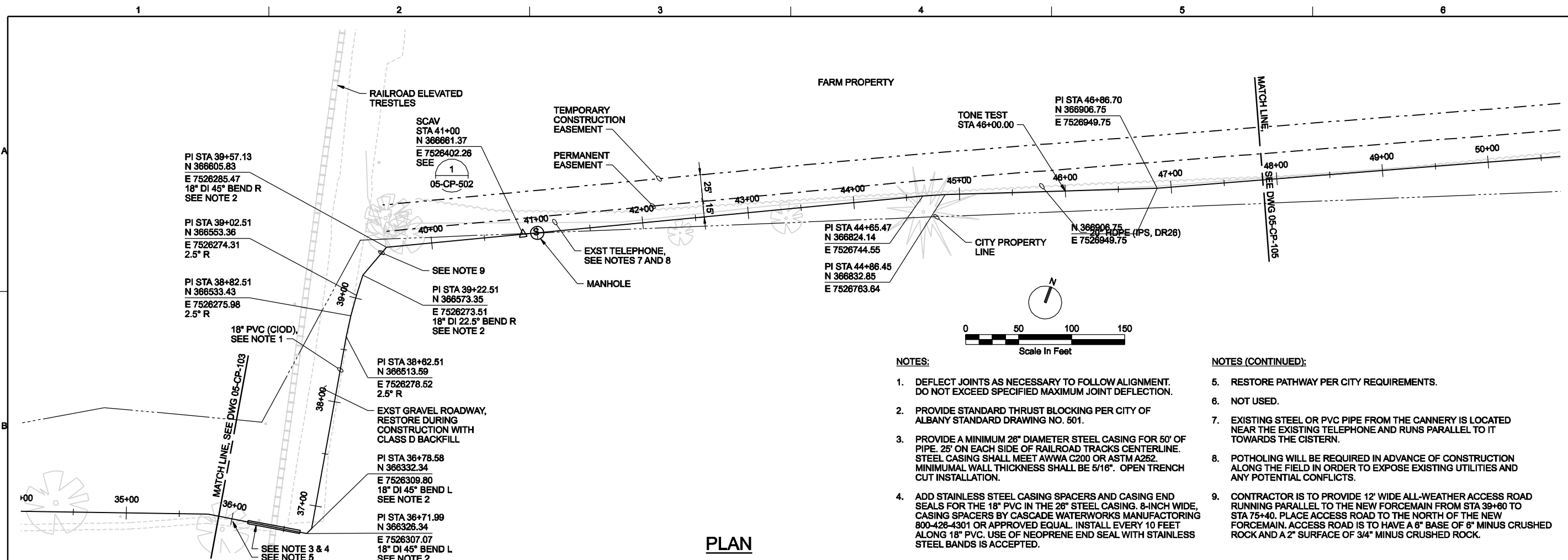
RECORD DRAWINGS	REVISION	CHK	APVD	CW MASSIE
NO. DATE	DR	SR	BY	
05/2010	CD WOLFF	SR REDELL	SRR	KLM
	DGN	DR	BY	APVD

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
 CITY OF ALBANY - PROJ NO. SS-07-04  
 ALBANY, OREGON

**CH2MHILL**  
 SITE DEVELOPMENT  
 CONVEYANCE PIPELINE  
 PLAN AND PROFILE  
 STA 24+00 TO 36+00

VERIFY SCALE	DATE	FEB 2009
BAR IS ONE INCH ON ORIGINAL DRAWING.	PROJ	326918PL
	DWG	05-CP-103
	SHEET	017





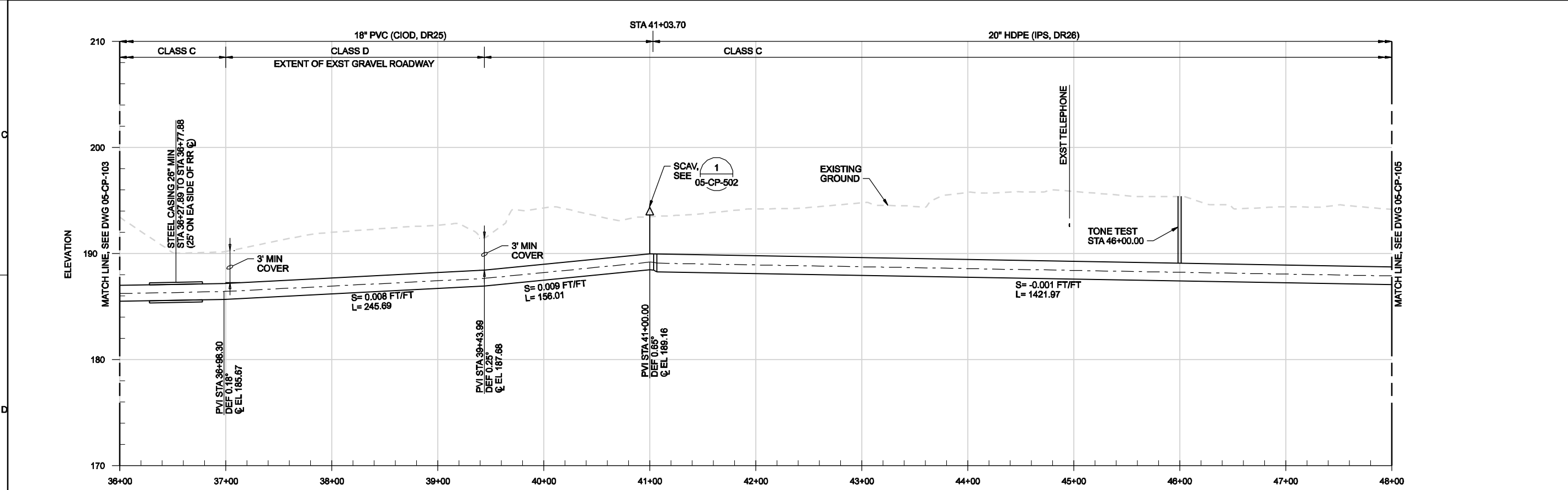
**PLAN**

**NOTES:**

1. DEFLECT JOINTS AS NECESSARY TO FOLLOW ALIGNMENT. DO NOT EXCEED SPECIFIED MAXIMUM JOINT DEFLECTION.
2. PROVIDE STANDARD THRUST BLOCKING PER CITY OF ALBANY STANDARD DRAWING NO. 501.
3. PROVIDE A MINIMUM 28" DIAMETER STEEL CASING FOR 50' OF PIPE. 25' ON EACH SIDE OF RAILROAD TRACKS CENTERLINE. STEEL CASING SHALL MEET AWWA C200 OR ASTM A252. MINIMUM WALL THICKNESS SHALL BE 5/16". OPEN TRENCH CUT INSTALLATION.
4. ADD STAINLESS STEEL CASING SPACERS AND CASING END SEALS FOR THE 18" PVC IN THE 28" STEEL CASING. 8-INCH WIDE, CASING SPACERS BY CASCADE WATERWORKS MANUFACTURING 800-426-4301 OR APPROVED EQUAL. INSTALL EVERY 10 FEET ALONG 18" PVC. USE OF NEOPRENE END SEAL WITH STAINLESS STEEL BANDS IS ACCEPTED.

**NOTES (CONTINUED):**

5. RESTORE PATHWAY PER CITY REQUIREMENTS.
6. NOT USED.
7. EXISTING STEEL OR PVC PIPE FROM THE CANNERY IS LOCATED NEAR THE EXISTING TELEPHONE AND RUNS PARALLEL TO IT TOWARDS THE CISTERN.
8. POTHOLING WILL BE REQUIRED IN ADVANCE OF CONSTRUCTION ALONG THE FIELD IN ORDER TO EXPOSE EXISTING UTILITIES AND ANY POTENTIAL CONFLICTS.
9. CONTRACTOR IS TO PROVIDE 12' WIDE ALL-WEATHER ACCESS ROAD RUNNING PARALLEL TO THE NEW FORCEMAIN FROM STA 39+60 TO STA 75+40. PLACE ACCESS ROAD TO THE NORTH OF THE NEW FORCEMAIN. ACCESS ROAD IS TO HAVE A 6" BASE OF 6" MINUS CRUSHED ROCK AND A 2" SURFACE OF 3/4" MINUS CRUSHED ROCK.



**PROFILE**

HORIZ: 1"=50'  
VERT: 1"=5'

THE CONTRACT DOCUMENT DRAWINGS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

RECORD DRAWINGS	REVISION	CHK	APVD	CW MASSIE
NO. DATE	05/2010	DR	SR REDDELL	DJ PETERSON
DESIGN			CD WOLFF	

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

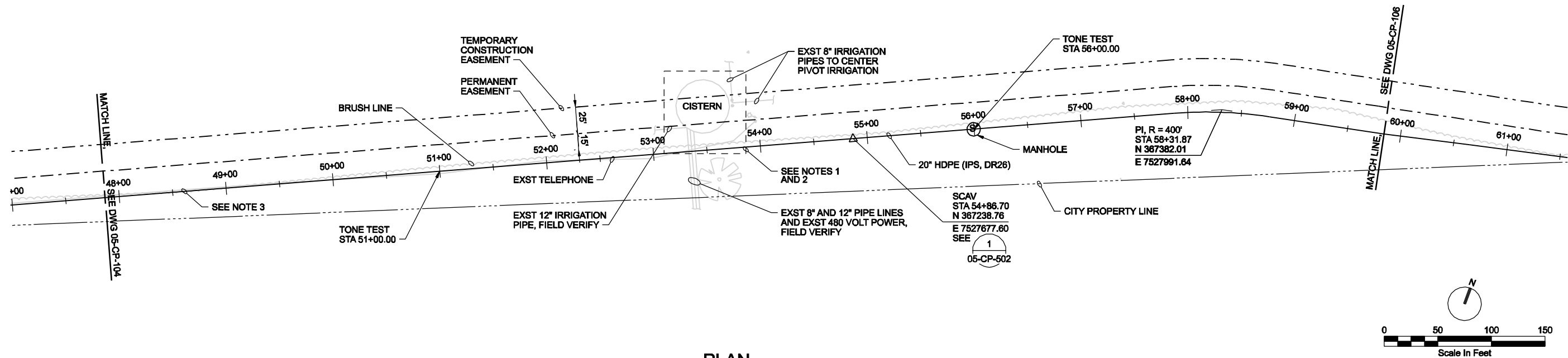
**CH2MHILL**  
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
PLAN AND PROFILE  
STA 36+00 TO 48+00

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	FEB 2009
PROJ	326918PL
DWG	05-CP-104
SHEET	018

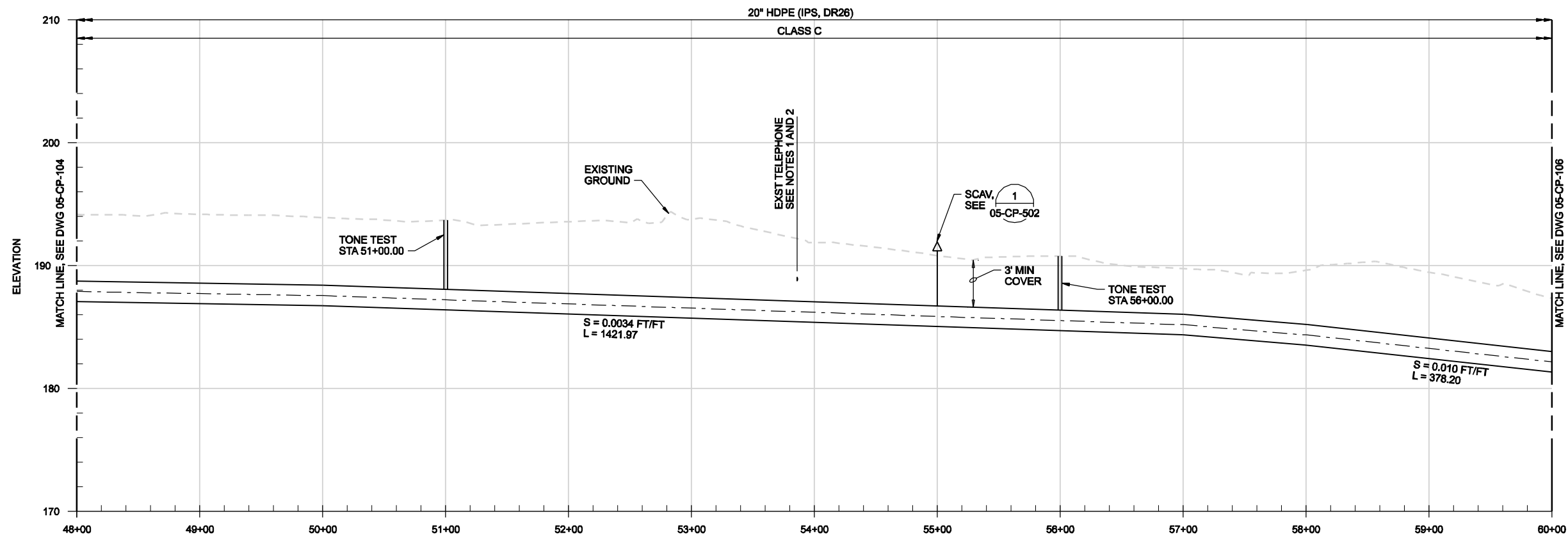
**NOTES:**

1. POTHOLES WILL BE REQUIRED IN ADVANCE OF CONSTRUCTION NEAR THE CISTERN AND ALONG THE FIELD IN ORDER TO EXPOSE EXISTING UTILITIES AND ANY POTENTIAL CONFLICTS.
2. EXISTING PIPE SIZES AND LOCATIONS ARE APPROXIMATE.
3. CONTRACTOR IS TO PROVIDE 12' WIDE ALL-WEATHER ACCESS ROAD RUNNING PARALLEL TO THE NEW FORCEMAIN FROM STA 39+80 TO STA 75+40. PLACE ACCESS ROAD TO THE NORTH OF THE NEW FORCEMAIN. ACCESS ROAD IS TO HAVE A 6" BASE OF 6" MINUS CRUSHED ROCK AND A 2" SURFACE OF 3/4" MINUS CRUSHED ROCK.

FARM PROPERTY



**PLAN**



**PROFILE**

HORIZ: 1"=50'  
VERT: 1"=5'

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RECORD DRAWINGS	REVISION	CHK	APVD	BY	KLM
NO. DATE	DSGN	DR	CD WOLFF	SR REDDELL	DJ PETERSON
05/2010					CW MASSIE

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

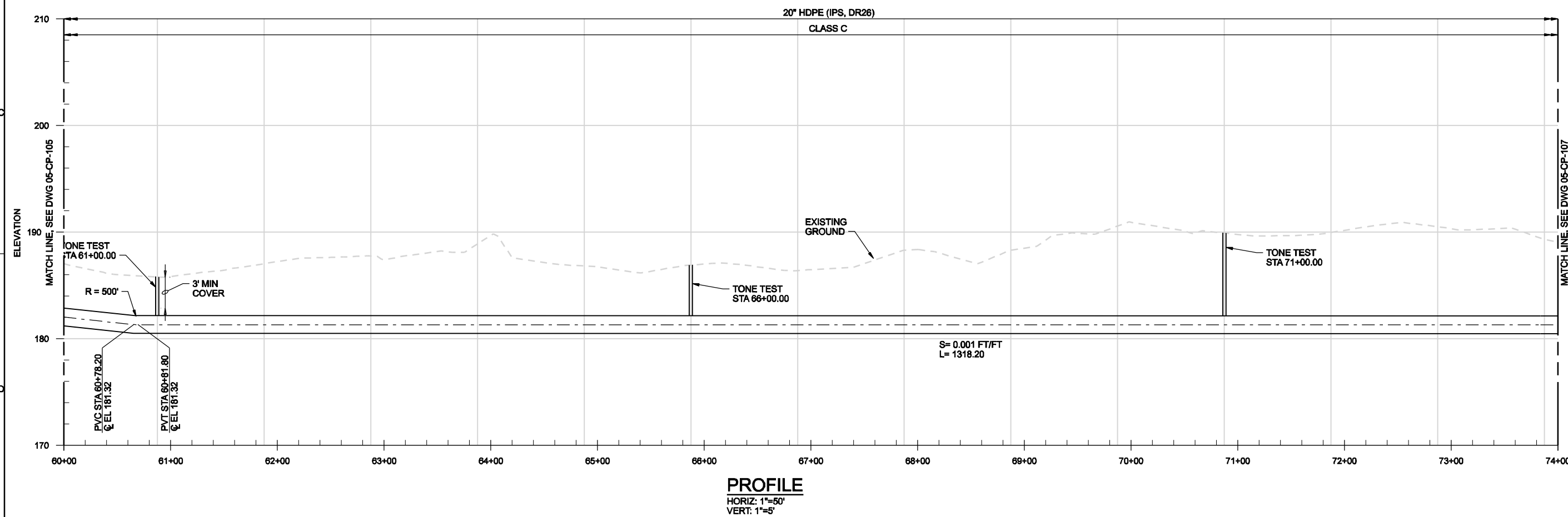
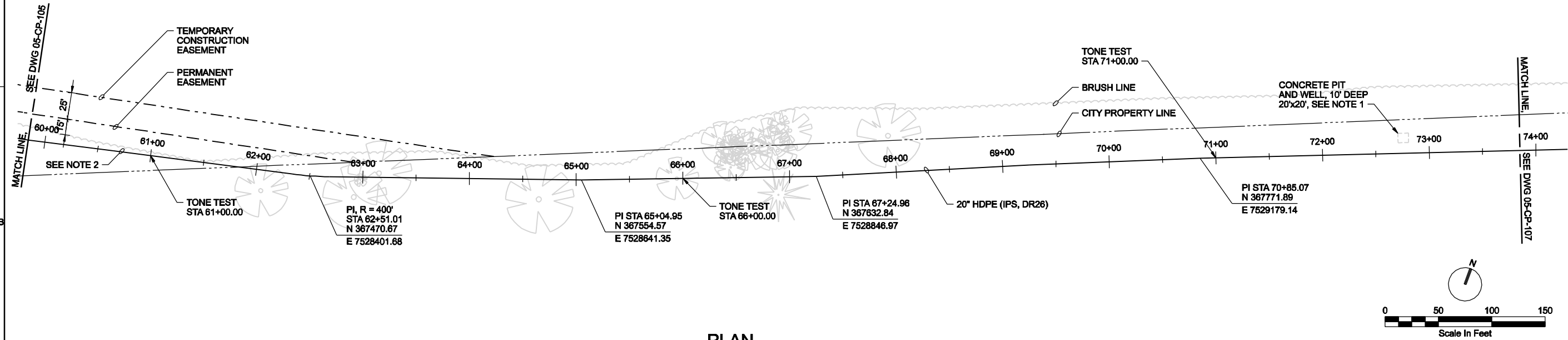
**CH2MHILL**  
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
PLAN AND PROFILE  
STA 48+00 TO 60+00

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	FEB 2009
PROJ	326918PL
DWG	05-CP-105
SHEET	019



**NOTES:**

- POTHOLES WILL BE REQUIRED IN ADVANCE OF CONSTRUCTION IN ORDER TO EXPOSE EXISTING UTILITIES AND ANY POTENTIAL CONFLICTS.
- CONTRACTOR IS TO PROVIDE 12' WIDE ALL-WEATHER ACCESS ROAD RUNNING PARALLEL TO THE NEW FORCEMAIN FROM STA 39+60 TO STA 75+40. PLACE ACCESS ROAD TO THE NORTH OF THE NEW FORCEMAIN. ACCESS ROAD IS TO HAVE A 6" BASE OF 6" MINUS CRUSHED ROCK AND A 2" SURFACE OF 3/4" MINUS CRUSHED ROCK.



THE CONTRACT DOCUMENT DRAWINGS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

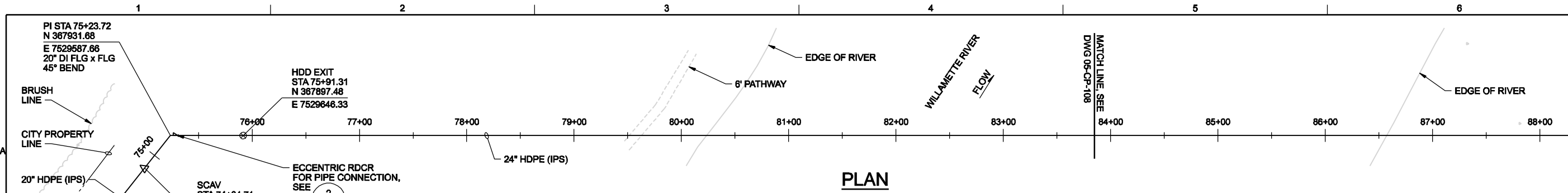
RECORD DRAWINGS	REVISION	CHK	APVD	BY	KLM
NO. DATE	DGN	DR	SR REDDELL	DJ PETERSON	CW MASSIE
05/2010			CD WOLFF		

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

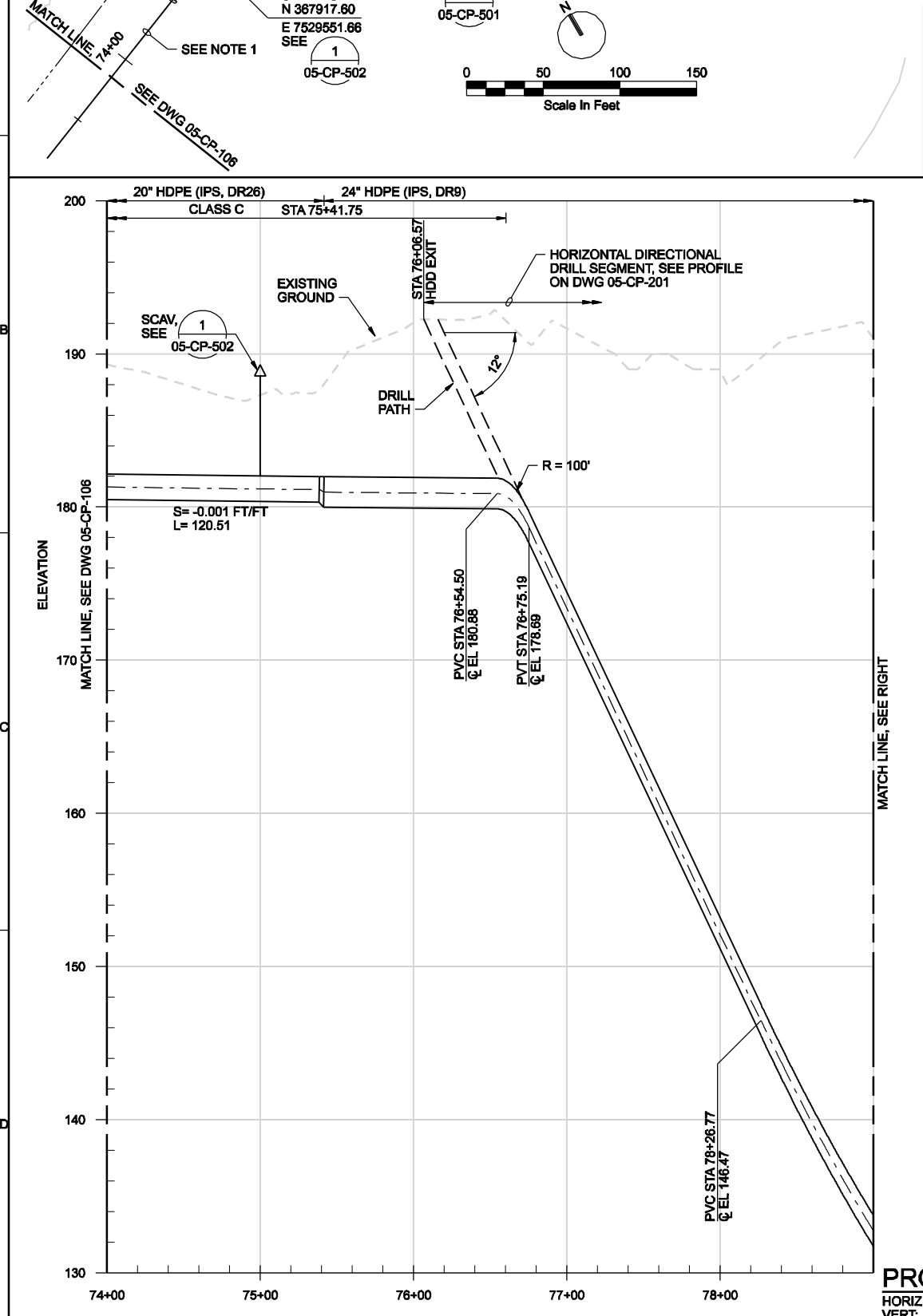
**CH2MHILL**

SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
PLAN AND PROFILE  
STA 60+00 TO 72+00

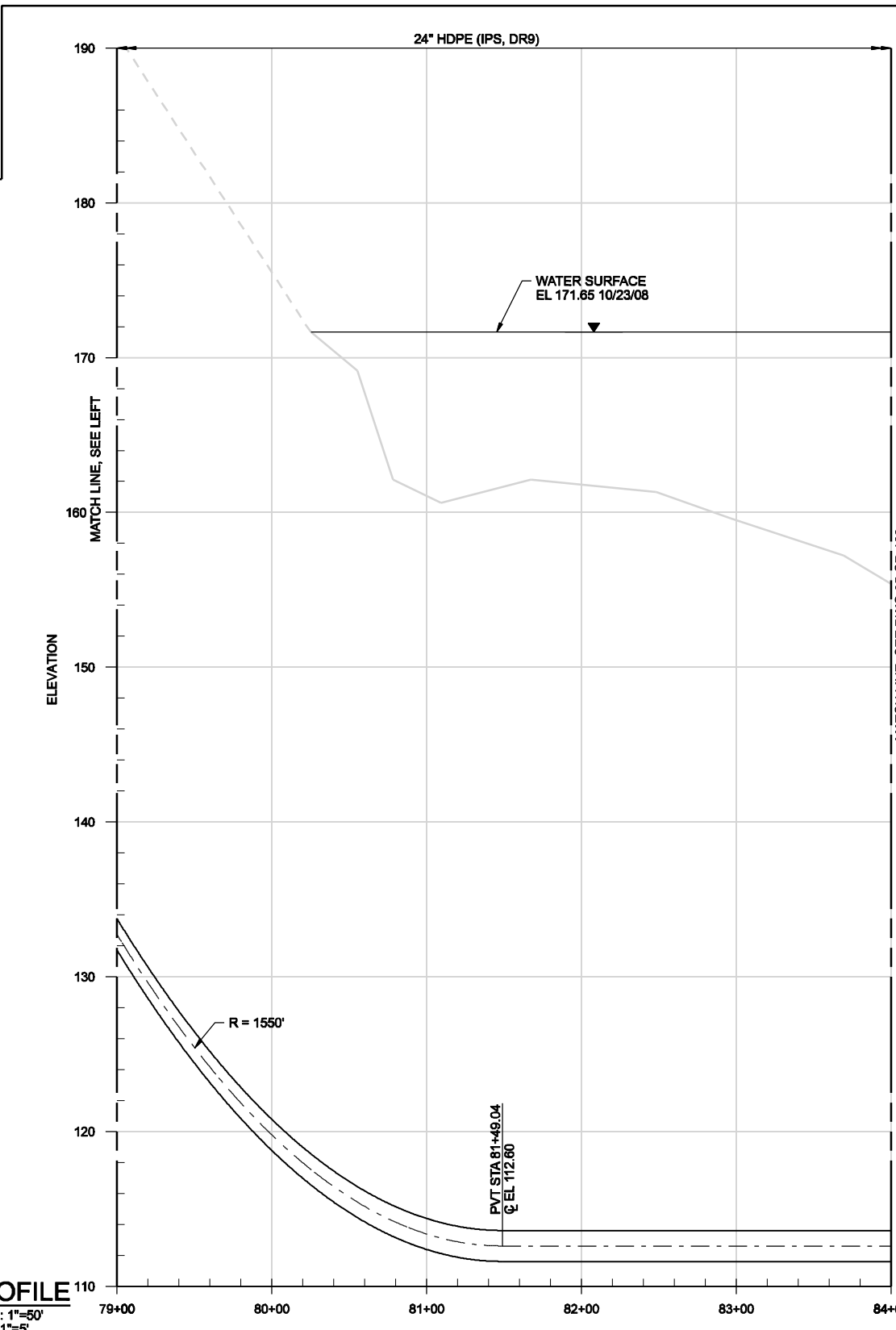
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DATE	FEB 2009
PROJ	326918PL
DWG	05-CP-106
SHEET	020



**PLAN**



**PROFILE**  
HORIZ: 1"=50'  
VERT: 1"=5'



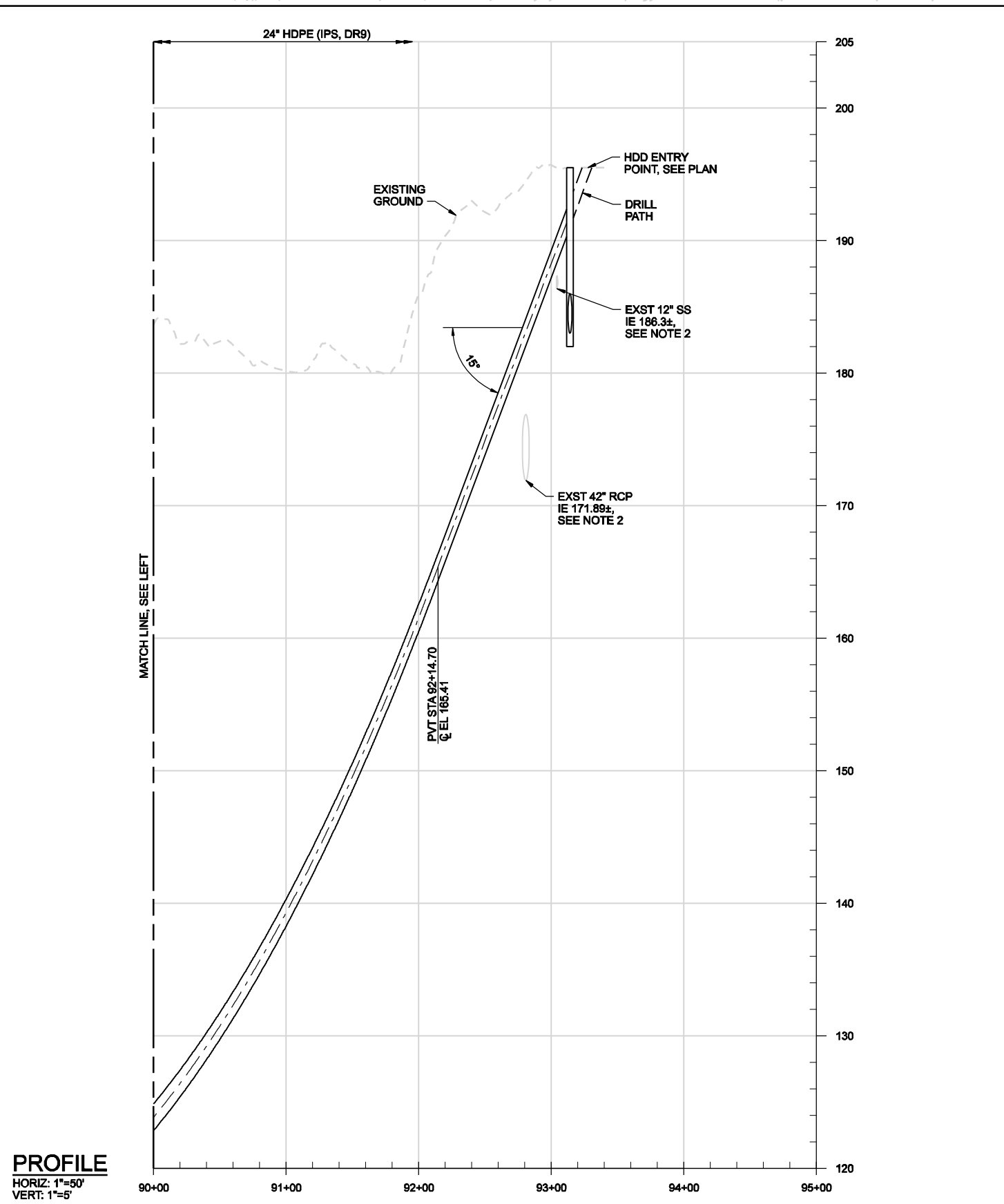
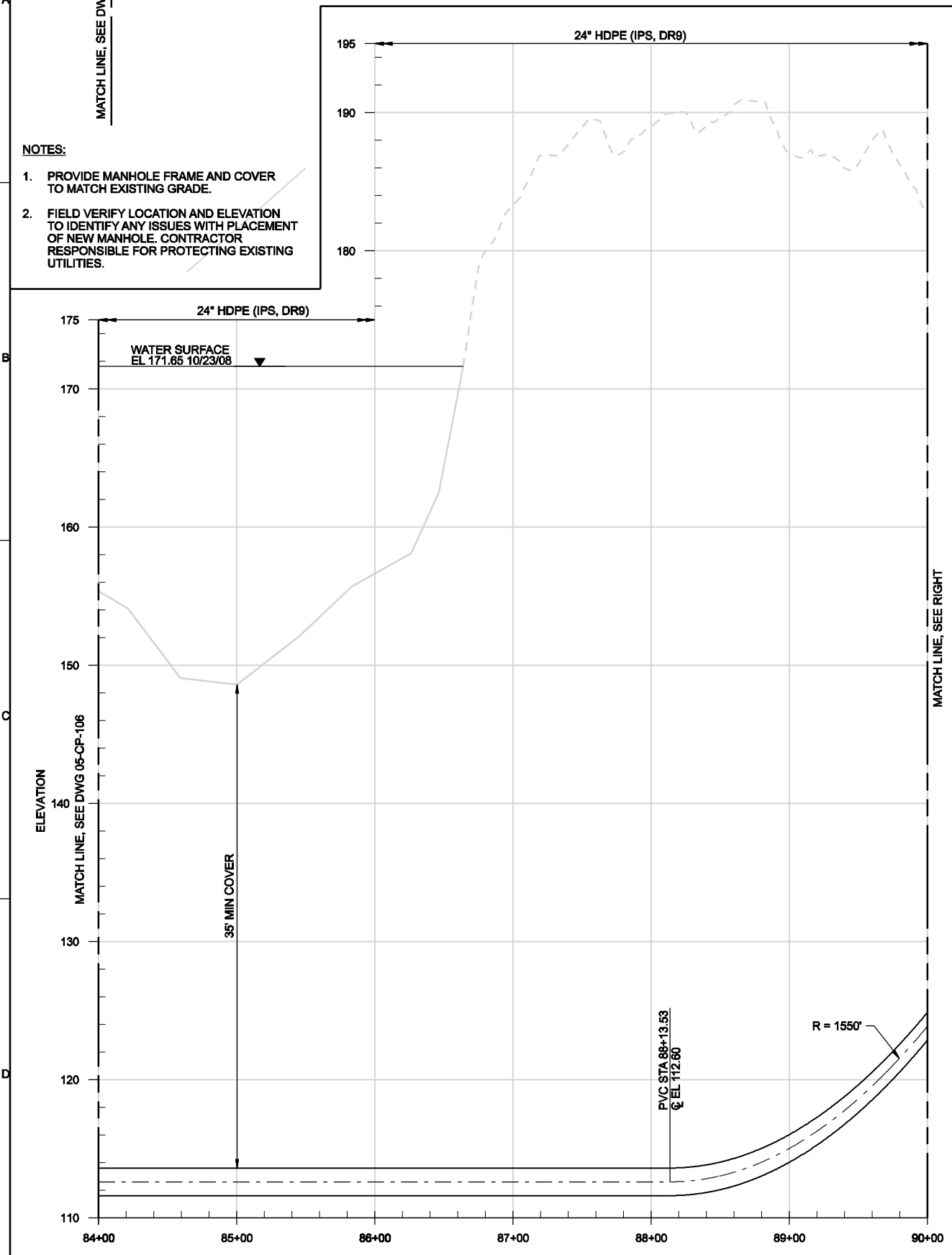
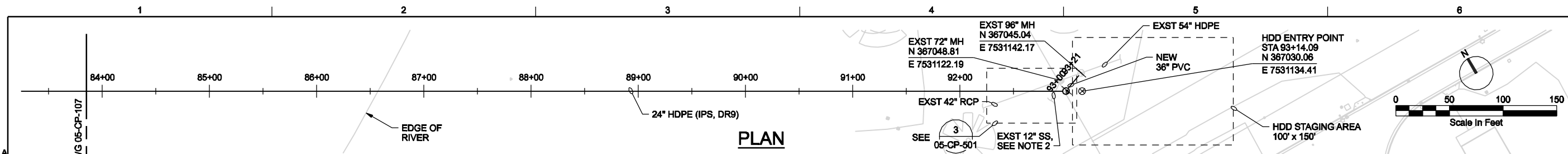
**NOTES:**

- CONTRACTOR IS TO PROVIDE 12' WIDE ALL-WEATHER ACCESS ROAD RUNNING PARALLEL TO THE NEW FORCEMAIN FROM STA 39+60 TO STA 75+40. PLACE ACCESS ROAD TO THE NORTH OF THE NEW FORCEMAIN. ACCESS ROAD IS TO HAVE A 6" BASE OF 6" MINUS CRUSHED ROCK AND A 2" SURFACE OF 3/4" MINUS CRUSHED ROCK.

THE CONTRACT DOCUMENTS WHICH DEFINE THE SCOPE AND CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, SIGNED FEBRUARY 10, 2009, BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

<p><b>CH2MHILL</b></p> <p>SITE DEVELOPMENT CONVEYANCE PIPELINE PLAN AND PROFILE STA 72+00 TO 84+00</p>	<p>NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS CITY OF ALBANY - PROJ NO. SS-07-04 ALBANY, OREGON</p>		<p>RECORD DRAWINGS</p>	<p>JMD</p>	<p>KLM</p>
	<p>NO. DATE</p> <p>05/2010</p>	<p>DR</p> <p>CD WOLFF</p>	<p>REVISION</p> <p>SR REDDELL</p>	<p>BY</p> <p>JMD</p>	<p>APVD</p> <p>CW MASSIE</p>
<p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING.</p>					
<p>DATE</p> <p>FEB 2009</p>		<p>PROJ</p> <p>326918PL</p>		<p>DWG</p> <p>05-CP-107</p>	
<p>SHEET</p> <p>021</p>		<p>FILENAME: 05-CP-107_326918PL.dgn</p>		<p>PLOT DATE: 5/19/2010</p>	
<p>PLOT TIME: 10:49:04 AM</p>		<p>REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2MHILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL.</p>			





- NOTES:**
1. PROVIDE MANHOLE FRAME AND COVER TO MATCH EXISTING GRADE.
  2. FIELD VERIFY LOCATION AND ELEVATION TO IDENTIFY ANY ISSUES WITH PLACEMENT OF NEW MANHOLE. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING UTILITIES.

THE CONTRACT DOCUMENT DOCUMENTS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

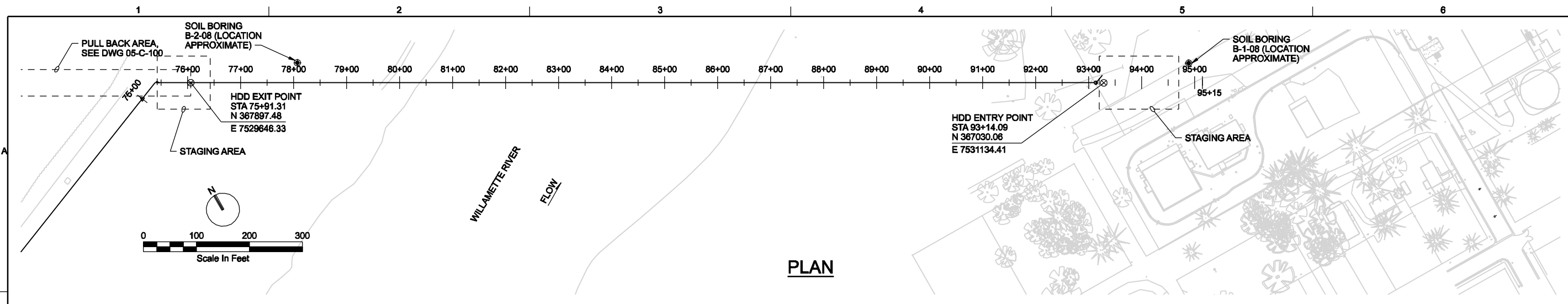
NO.	DATE	DGN	DR	CHK	REVISION	BY	APVD
05/2010			CD WOLFF	SR REDDELL	RECORD DRAWINGS	SRR	KLM

**CH2MHILL**

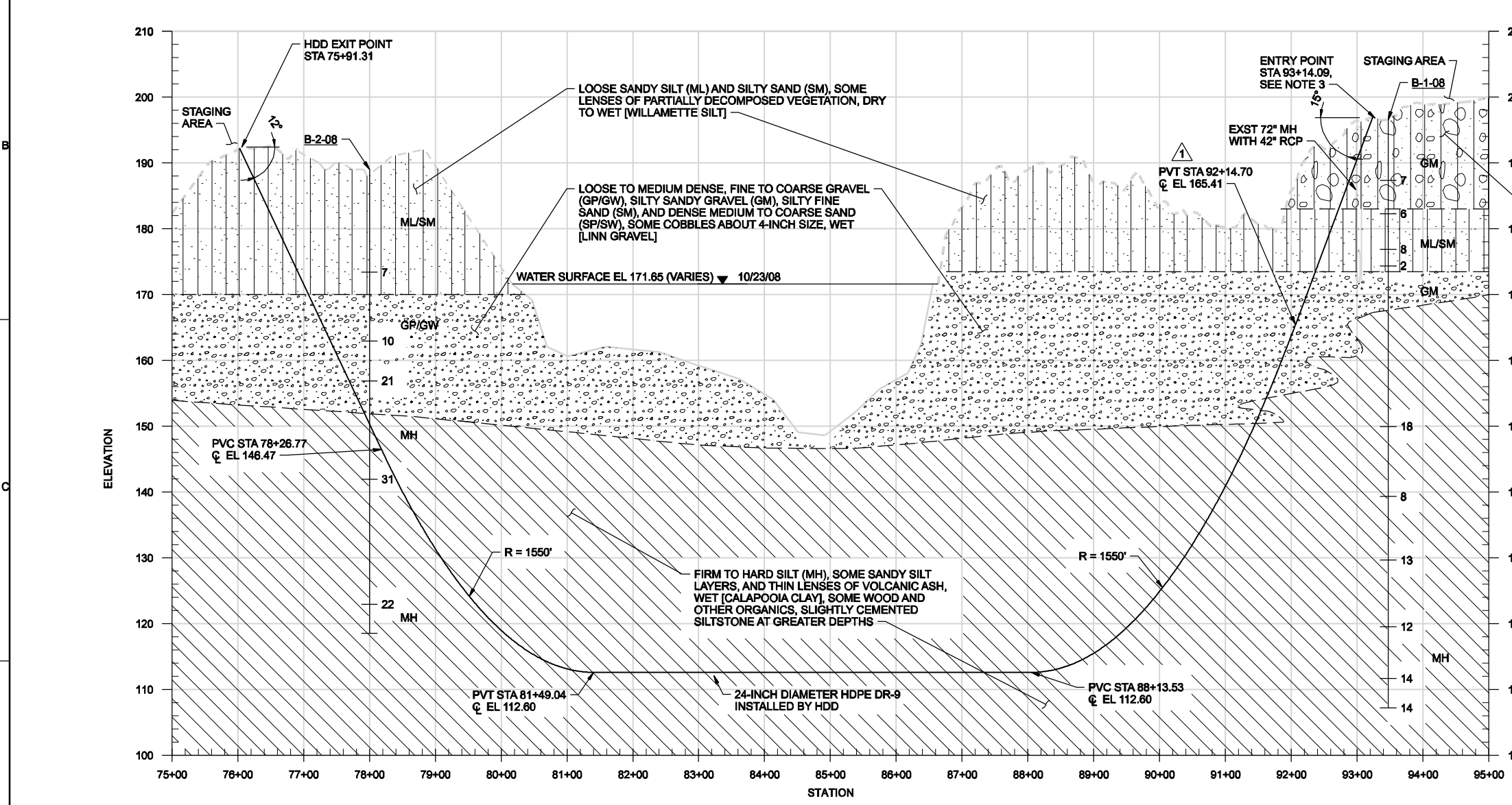
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
PLAN AND PROFILE  
STA 84+00 TO 95+00

NORTH ALBANY FORCE MAIN AND  
EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	FEB 2009
PROJ	326918PL
DWG	05-CP-108
SHEET	022



**PLAN**



**PROFILE**  
 HORIZ: 1"=100'  
 VERT: 1"=10'

- NOTES:**
- SEE GEOTECHNICAL REPORT DATED DECEMBER 2008 BY CH2M HILL FOR COMPREHENSIVE GEOTECHNICAL INFORMATION.
  - THIS GEOLOGIC PROFILE REPRESENTS A HIGHLY SIMPLIFIED PICTURE, AND IS AN INTERPRETATION BASED ON THE 2 TEST HOLES SHOWN PLUS EXPLORATORY DRILLING FROM NEARBY PROJECTS. ACTUAL STRATIFICATIONS ENCOUNTERED ARE LIKELY TO VARY FROM THOSE SHOWN DEPENDING ON LOCATION.
  - FOR DETAILS OF HDD ENTRY, SEE DWG 05-CP-108 AND 05-CP-501.
  - FOR STAGING AREAS, SEE DWG 05-C-100.

LOOSE SILTY FINE TO COARSE GRAVEL (GM), SOME FINE TO COARSE SAND, SOME COBBLES UP TO ABOUT 4-INCH, SOME SILTY SAND LENSES, SOME THIN METAL SCRAPS AND OTHER MAN-MADE DEBRIS, MOIST [FILL]

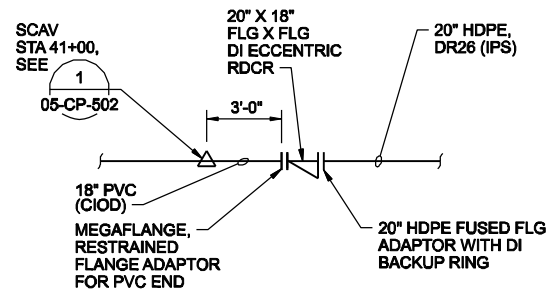
- LEGEND:**
- GEOTECHNICAL BORING (PLAIN)
  - ⊕ SPT N VALVE (STANDARD PENETRATION TEST) AND UNIFIED SOIL CLASSIFICATION (USCS) FROM BORING LOG (PROFILE)

THE CONTRACT DOCUMENTS WHICH DEFINE THE CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 157608.

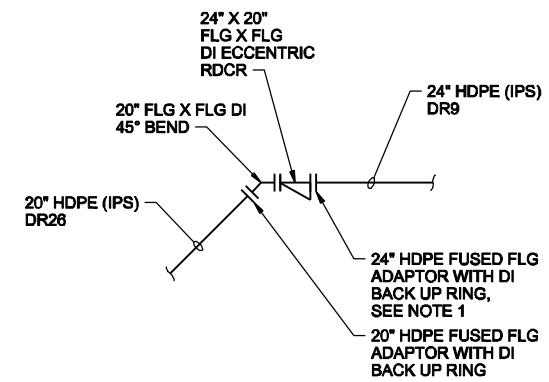
	RECORD DRAWINGS	REVISION	CHK	APVD	BY	KLM	SRR	CW MASSIE
05/2010	NO. DATE	DR	SR REDDELL	DJ PETERSON	APVD	BY	KLM	CW MASSIE
NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS CITY OF ALBANY - PROJ NO. SS-07-04 ALBANY, OREGON								
<b>CH2MHILL</b> SITE DEVELOPMENT CONVEYANCE PIPELINE HDD RIVER CROSSING PROFILE								
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.								
DATE FEB 2009								
PROJ 326918PL								
DWG 05-CP-201								
SHEET Q23								

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2004. ALL RIGHTS RESERVED.



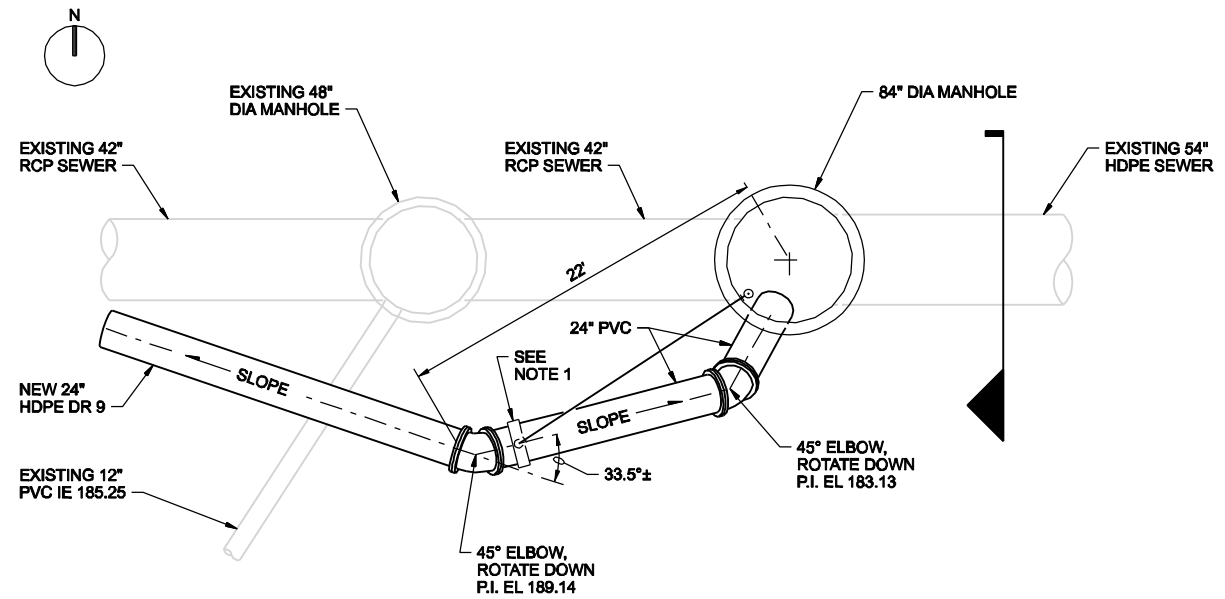


**1** PIPE CONNECTION DETAIL  
NTS  
05-CP-104



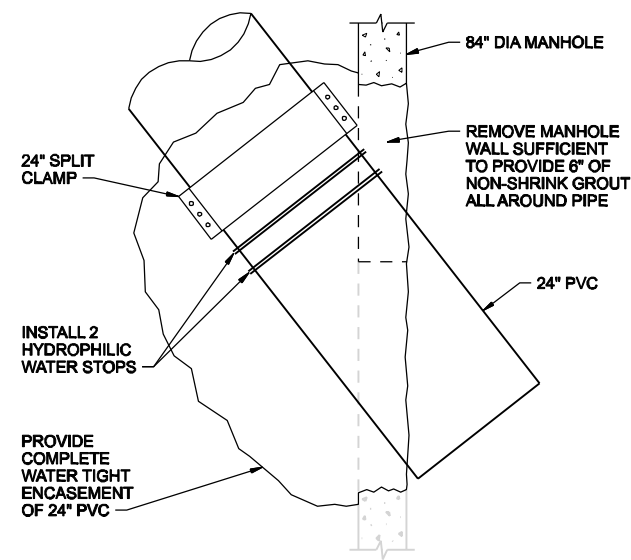
**NOTES:**  
1. THE INSIDE OF 24\"/>

**2** PIPE CONNECTION DETAIL  
NTS  
05-CP-107

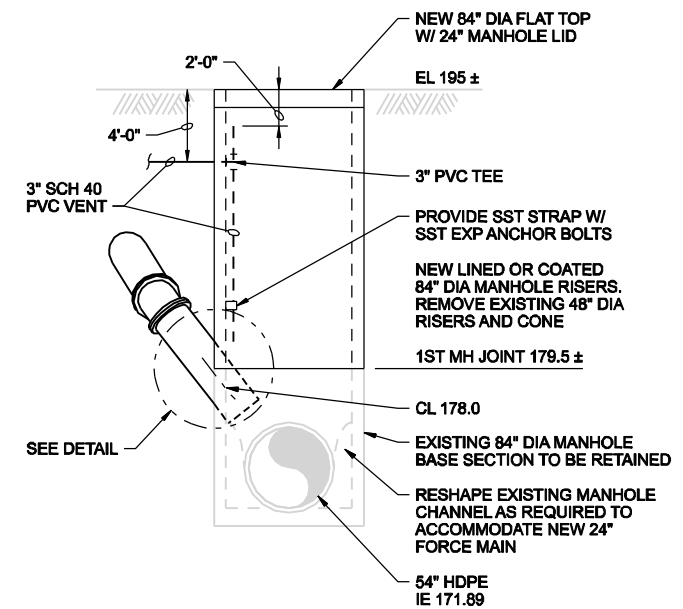


**PLAN**

**NOTES:**  
1. PROVIDE 3\"/>



**DETAIL**  
NTS



**SECTION**

**3** DISCHARGE MANHOLE  
3/16\"/>

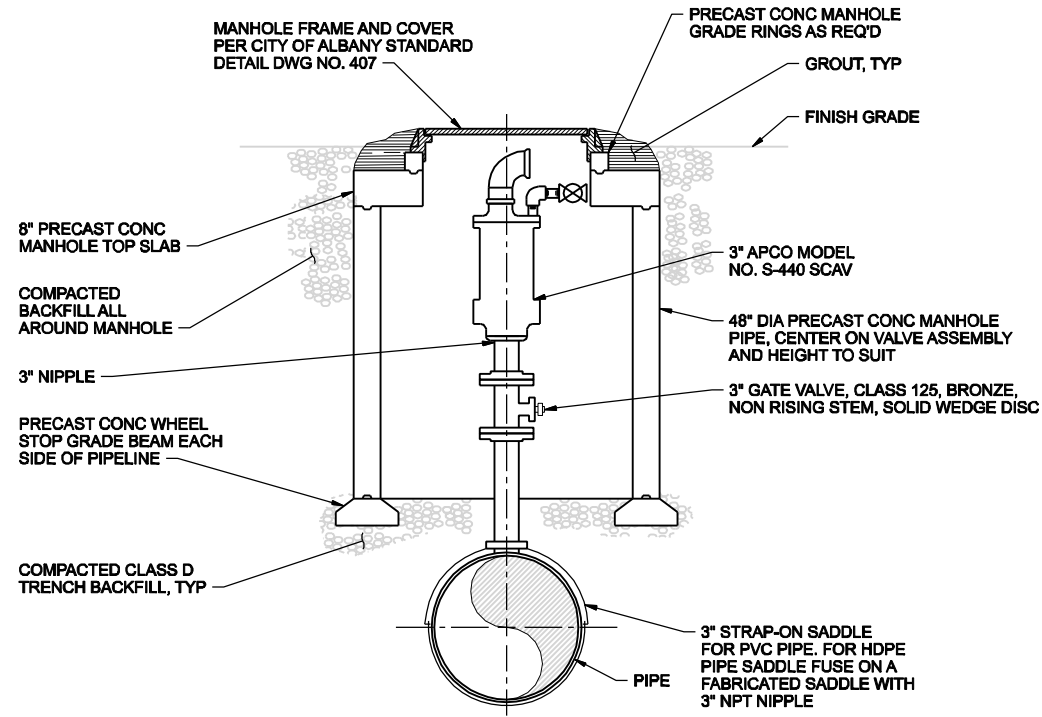
THE CONTRACT DOCUMENT DRAWINGS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

RECORD DRAWINGS	REVISION	CHK	APVD	BY	KLM
05/2010	DATE	DGN	NO.	05/2010	DATE
CD WOLFF	DR	SR REDDELL	CHK	DJ PETERSON	APVD
					CW MASSIE

NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

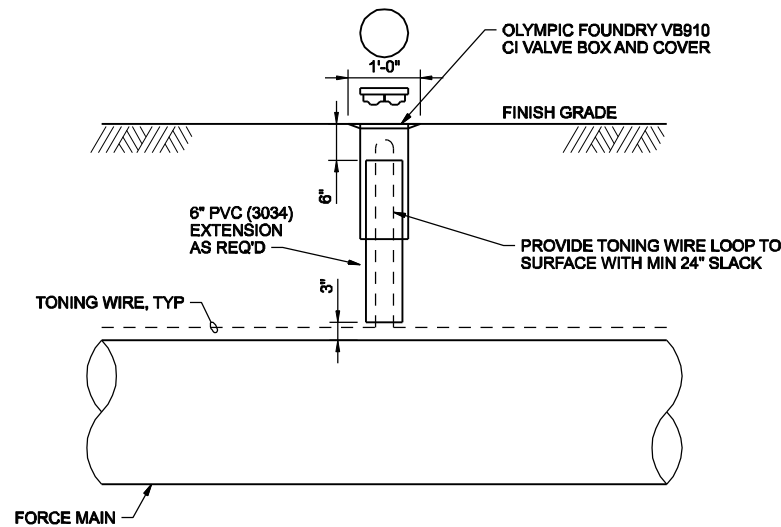
**CH2MHILL**  
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
DETAILS

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	SEP 2009
PROJ	326918PL
DWG	05-CP-501A
SHEET	Q24



**1 SEWAGE COMINATION AIR VALVE ASSEMBLY (SCAV)**

NTS  
05-CP-101  
05-CP-104  
05-CP-105  
05-CP-107

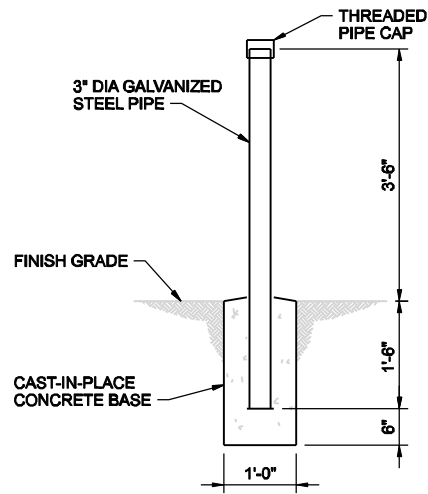


**NOTES:**

1. PROVIDE TONING WIRE ACCESS BOX AT MAXIMUM SPACING OF 500 FEET.
2. TOP OF TONING WIRE ACCESS BOX SHALL BE FLUSH WITH FINISH GRADE.
3. PROVIDE MARKER POST WITHIN 18\"/>

**2 TONING WIRE BOX**

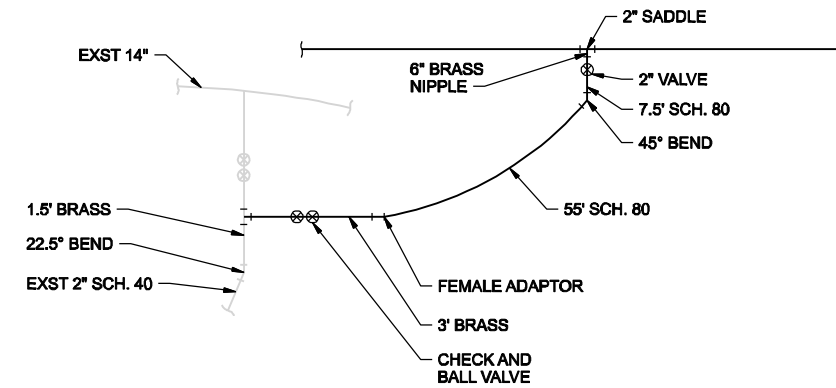
NTS  
01-G-04



**3 PIPELINE MARKER POST**

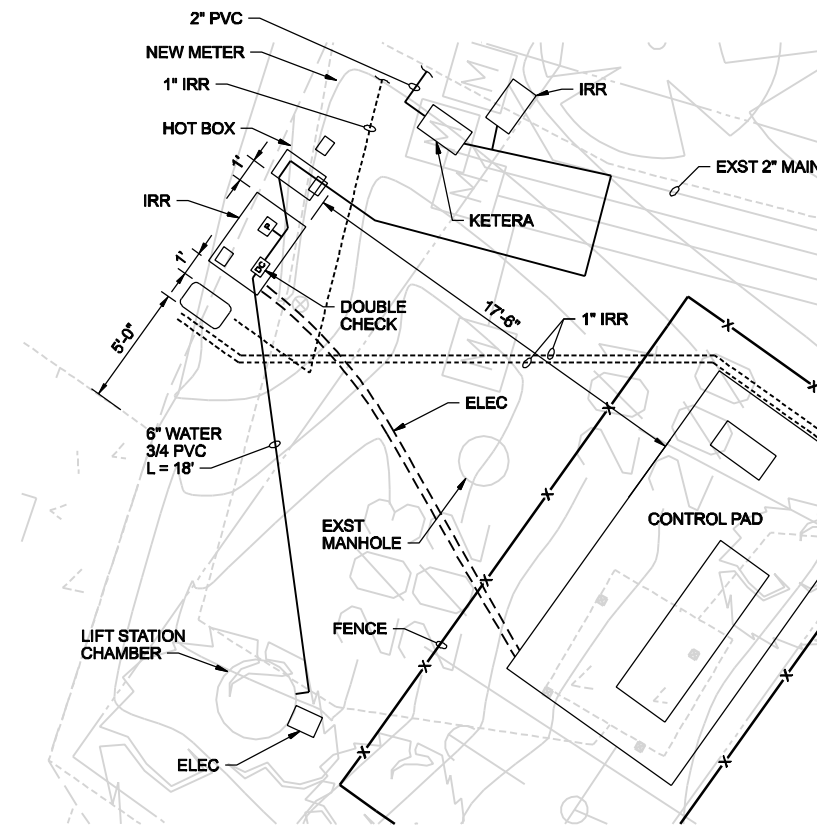
NTS  
01-G-04

**4 NOT USED**



**5 WATER CONNECTION**

NTS  
05-CP-101



**6 LIFT STATION UTILITIES**

NTS  
05-CP-101

THE CONTRACT DOCUMENT DRAWINGS WHICH DEFINE THE SCOPE OF THE WORK, CHARACTERIZE THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY DANIEL J. PETERSON, STATE OF OREGON, P.E. NO. 15708.

RECORD DRAWINGS	REVISION	CHK	DR	APVD	BY	APVD
NO.	DATE	DR	CHK	APVD	BY	APVD
05/2010						
DGN			CD WOLFF		CW MASSIE	
SR REDDELL			DJ PETERSON		CW MASSIE	

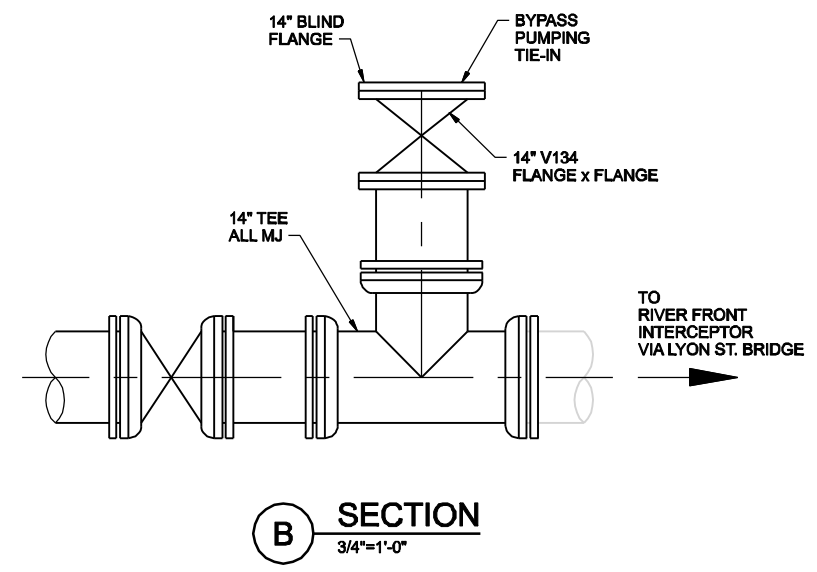
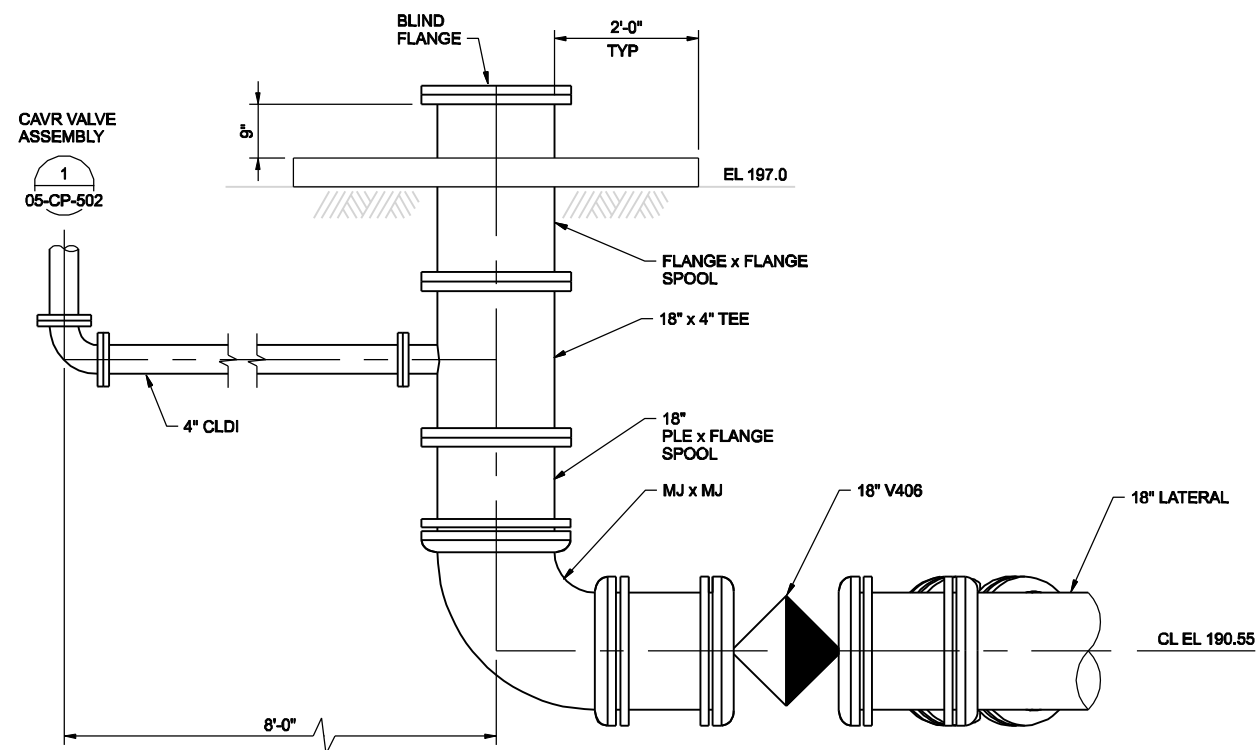
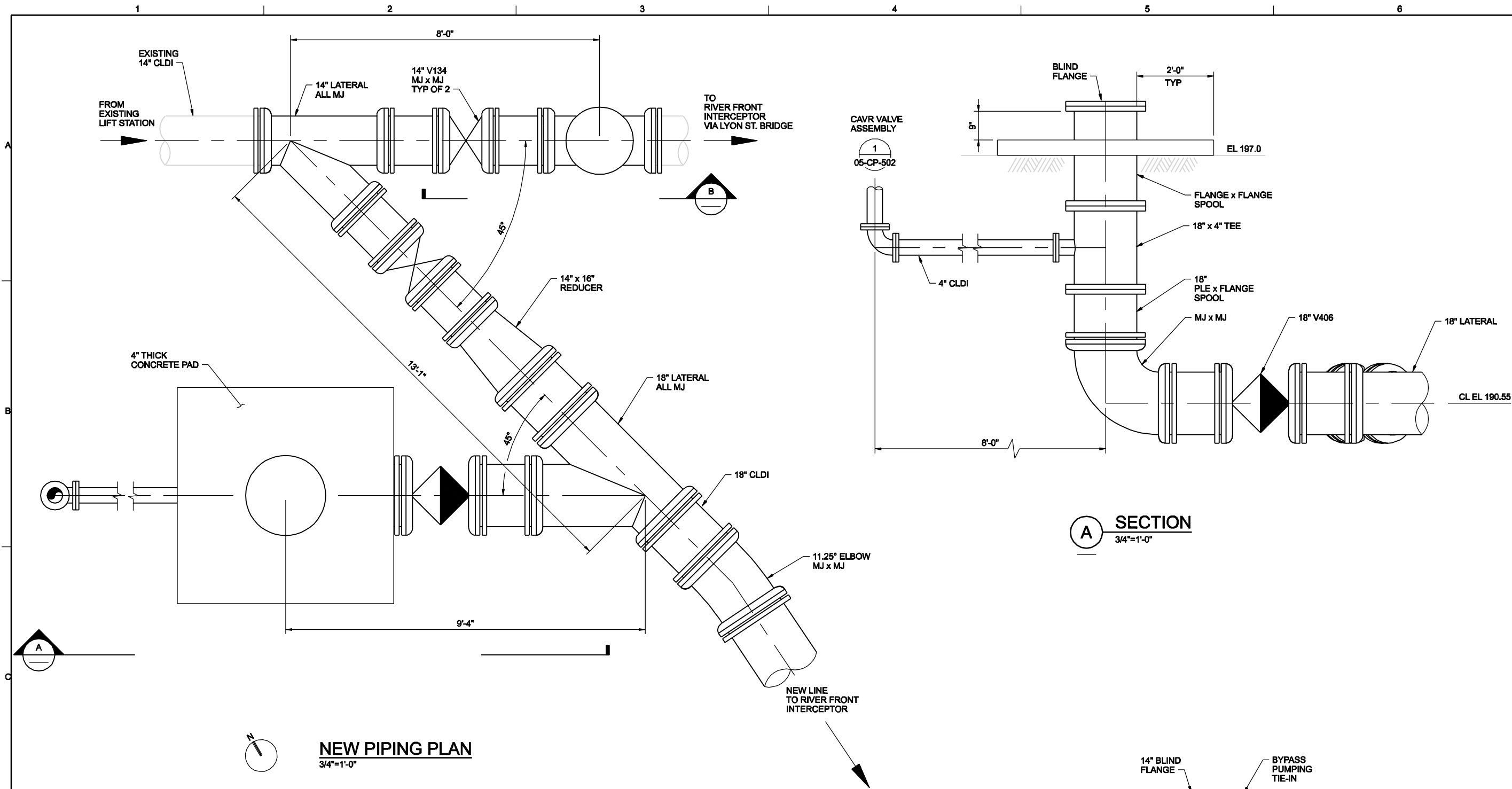
NORTH ALBANY FORCE MAIN AND EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

**CH2MHILL**  
SITE DEVELOPMENT  
CONVEYANCE PIPELINE  
DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	FEB 2009
PROJ	326918PL
DWG	05-CP-502
SHEET	025







**NOTES:**  
1. ALL MJ JOINTS SHALL BE RESTRAINED JOINT MEGALUG.

THE CONTRACT DOCUMENTS WHICH DEFINE THE SCOPE OF THE WORK, CHARACTERIZE THE WORK, THE ORIGINAL DOCUMENT, DRAWINGS WERE SEALED AND SIGNED FEBRUARY 10, 2009 BY MARVIN F. MURRAY, STATE OF OREGON, P.E. NO. 8905PE

RECORD DRAWINGS	REVISION	CHK	APVD	BY	APVD
05/2010	NO. DATE	DR	APVD	MF MURRAY	CW MASSIE
	DGN	DJ CHADWICK		JH BAJUM	

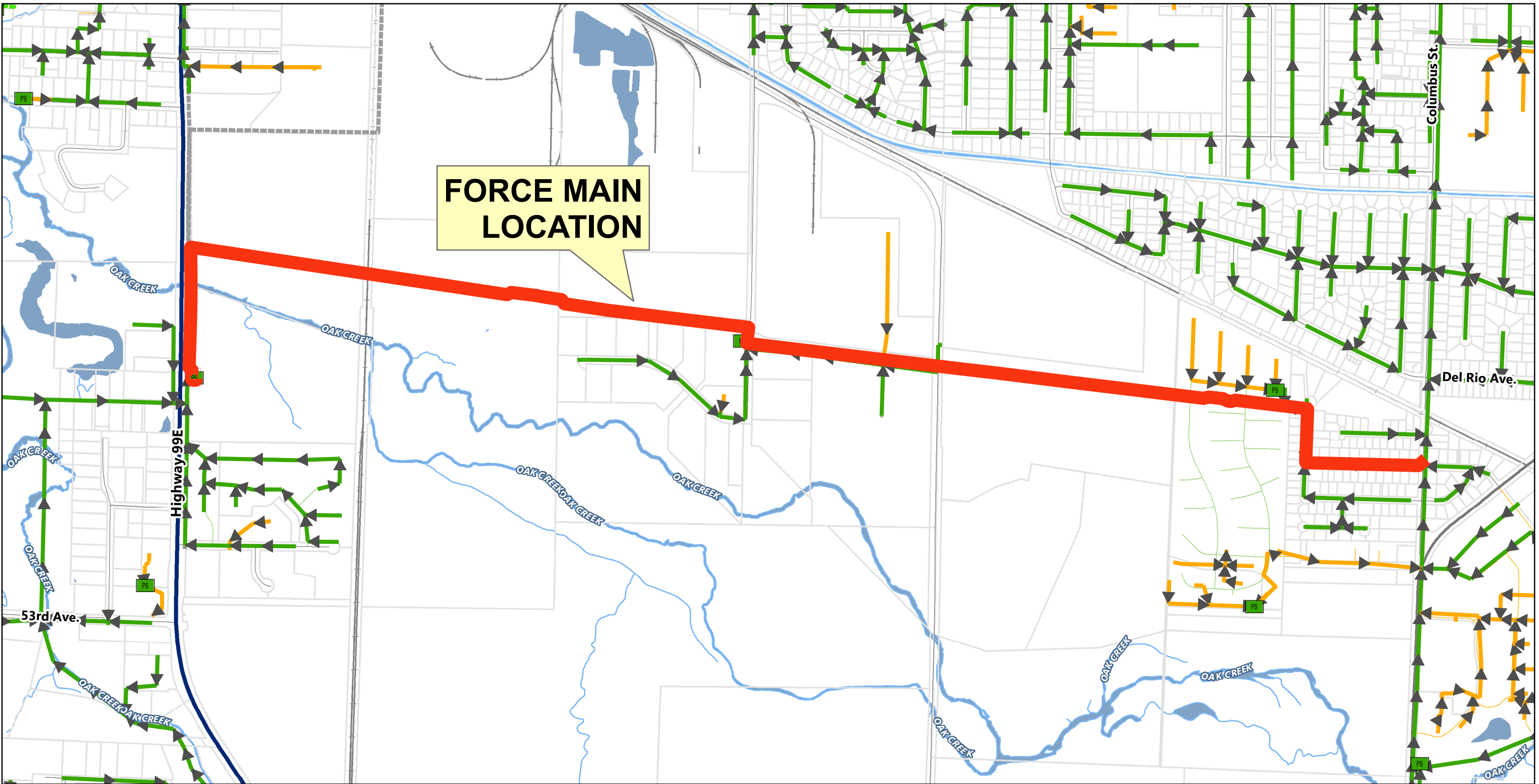
**CH2MHILL**

LIFT STATION  
MECHANICAL  
PLAN AND SECTIONS

NORTH ALBANY FORCE MAIN AND  
EXISTING LIFT STATION IMPROVEMENTS  
CITY OF ALBANY - PROJ NO. SS-07-04  
ALBANY, OREGON

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	FEB 2009
PROJ	326918PL
DWG	19-M-141
SHEET	040





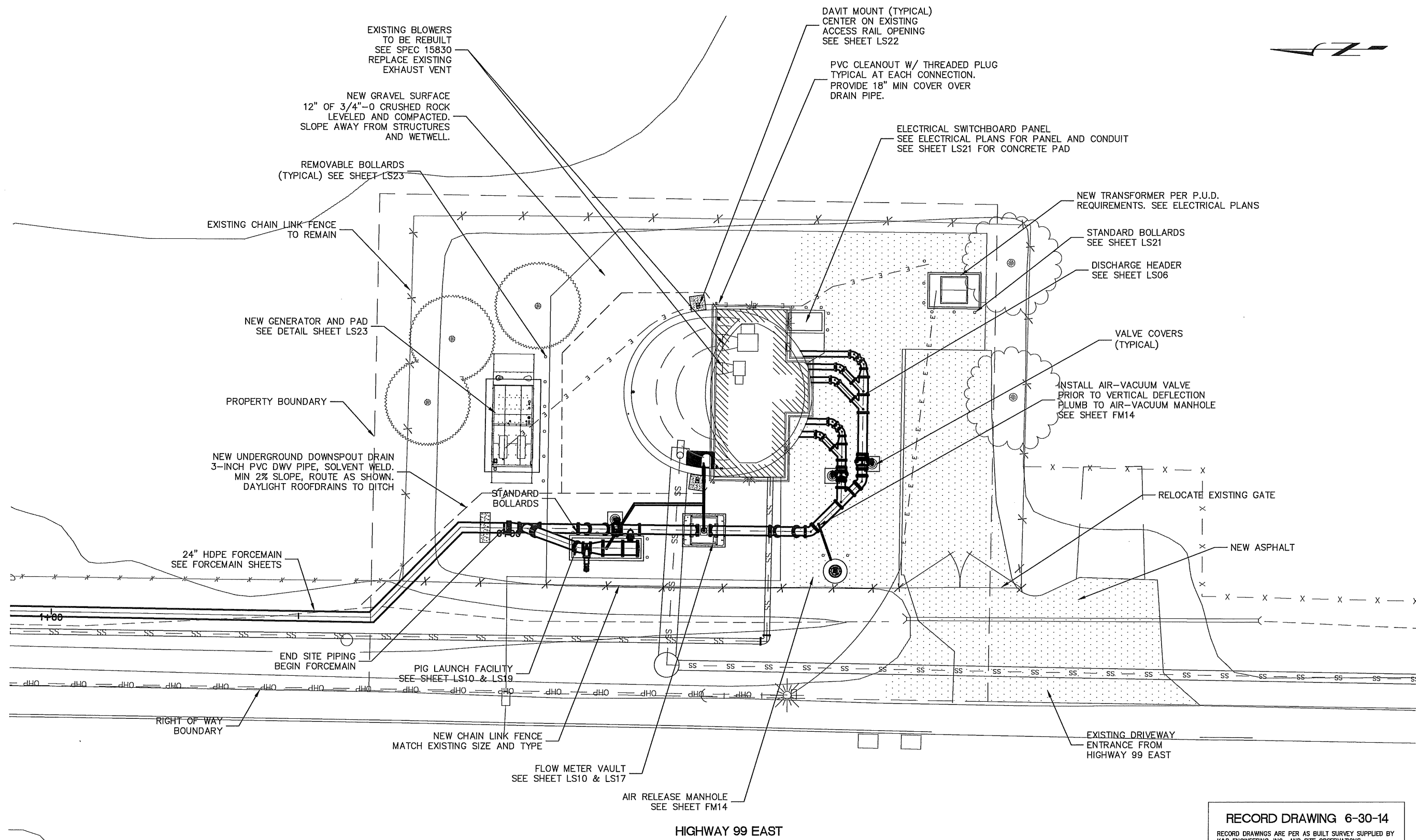
**OAK CREEK FORCE MAIN VICINITY MAP**



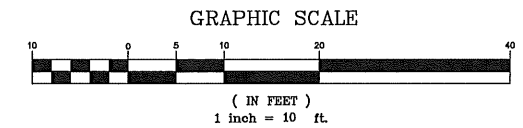






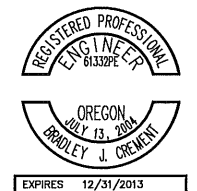


**RECORD DRAWING 6-30-14**  
 RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY  
 K&O ENGINEERING, INC., AND SITE OBSERVATIONS.



**SITE PLAN**

SCALE: 1" = 10'



**H B H**  
 Consulting Engineers  
 2316 Portland Road, Suite H  
 Newberg, Oregon 97132  
 503/554-9553 fax 503/537-9554  
 email: mail@hbh-engineers.com

REV.	DATE	DESCRIPTION	BY

0" = 10'  
 IF THIS LINE IS NOT 1 INCH  
 SCALE IS NOT AS SHOWN

CITY OF ALBANY  
 333 BROADALBIN SW, ALBANY, OREGON 97321

**SS-07-05 OAK CREEK LIFT STATION  
 LIFT STATION IMPROVEMENTS  
 SITE PLAN**

Sheet No. **LS05**  
 Date **04-23-13**  
**2007-011**

5 of 24  
 FINAL  
 Layout  
 Submittal No.  
 MDH  
 Checked By: BJC  
 Drawn By: BJC  
 L2007-011/DWG/SITE











# CITY OF ALBANY

## SS-07-05 OAK CREEK LIFT STATION

### FORCE MAIN IMPROVEMENTS

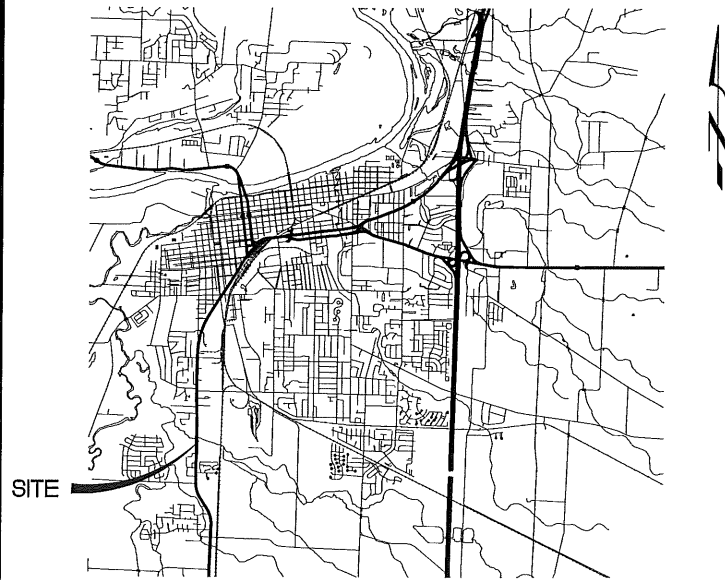
#### LINN COUNTY, OREGON

##### APRIL 23, 2013



**H B H**  
 Consulting Engineers  
 2316 Portland Road, Suite H  
 Newberg, Oregon 97132  
 503/554-9553 fax 503/537-9554  
 email: mail@hbh-engineers.com

Designed By: BJC | Drawn By: BJC | Checked By: MDH | Submitted No.: L/2007-012/DWG/COVER | File: L/2007-012/DWG/COVER | Final Cover



VICINITY MAP

NOT TO SCALE

**ABBREVIATIONS**

⊙	AT	N	NORTH
AC	ASPHALT	NE	NORTH EAST
BY	BUTTERFLY VALVE	NTS	NOT TO SCALE
CB	CATCH BASIN	NW	NORTH WEST
C/L	CENTERLINE	PC	POINT OF CURVATURE
CMP	CORRUGATED METAL PIPE	PRC	POINT OF REVERSE CURVE
CO	CLEAN OUT	PT	POINT OF TANGENCY
COTG	CLEAN OUT TO GRADE	P/L	PROPERTY LINE
CY	CUBIC YARDS	PVC	POLYVINYL CHLORIDE
DR	DRIVE	PVI	POINT OF VERTICAL INTERSECTION
DIP	DUCTILE IRON PIPE	ROW	RIGHT OF WAY
E	EAST	RT	RIGHT
ELEV	ELEVATION	S	SOUTH
EP	EDGE OF PAVEMENT	SE	SOUTH EAST
EX	EXISTING	SW	SOUTH WEST
FLG	FLANGE	STM	STORM DRAIN
GUT	GUTTER	SF	SQUARE FEET
GV	GATE VALVE	SAN	SANITARY SEWER
HDPE	HIGH DENSITY POLYETHYLENE	ST	STREET
HOR	HORIZONTAL	STA	STATION
HP	HIGH POINT	S=	SLOPE EQUALS
HYD	HYDRANT	S/W	SIDEWALK
IE	INVERT ELEVATION	TB	THRUST BLOCK
LF	LINEAR FEET	TYP	TYPICAL
LN	LINE	VER	VERTICAL
LP	LOW POINT	W	WEST
LT	LEFT	W/	WITH
MH	MANHOLE	WTR	WATER
MJ	MECHANICAL JOINT		

**GENERAL NOTES:**

- EXISTING UTILITY LOCATIONS AND CROSSINGS ARE BASED UPON A COMBINATION OF FIELD SURVEY, AERIAL SURVEY, AS-BUILTS, AND CITY GIS INFORMATION. CONTRACTOR TO VERIFY LOCATION IN THE FIELD AND NOTIFY THE CITY OF ANY DISCREPANCIES 72-HOURS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REPLACE IN KIND ALL DISTURBED SURFACES AND LANDSCAPING INCLUDING CURB, SIDEWALKS, PAVEMENT, MAILBOXES, PLAYGROUNDS, FENCING, TREES, SHRUBS, FLOWERS, BASKETBALL COURTS, ETC.
- CONTRACTOR SHALL TAKE GREAT CARE TO ENSURE THE FORCE MAIN DOES NOT HAVE ANY BELLIES OR CROWNS CREATING HIGHPOINTS IN THE LINE. ANY HIGHPOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS WILL NEED TO BE REMOVED AT CONTRACTORS EXPENSE.
- CONTRACTOR SHALL COMPLY WITH CONDITIONS SET FORTH IN THE LAND USE AGREEMENT BETWEEN THE U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION (BPA) AND CITY. THE BPA AGREEMENT IS INCLUDED IN THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING COSTS ASSOCIATED WITH SECURING THE REQUIRED BPA APPROVED SAFETY WATCHER DURING CONSTRUCTION OF THE SEWER LINE.

OAK CREEK LIFT STATION

**EXISTING LEGEND**

XX.X	- SPOT ELEVATION.
SD	- STORM DRAIN.
SS	- SEWERLINE.
W	- WATERLINE.
T	- TELECOMMUNICATION LINE.
OHP	- OVERHEAD POWER LINE.
G	- NATURAL GAS LINE.
E	- ELECTRICAL LINE.
[Symbol]	- BENCH SET IN CONCRETE.
[Symbol]	- CONCRETE.
[Symbol]	- RED BRICK SIDEWALK.
[Symbol]	- LAMP POST.
[Symbol]	- 4"x6" POST WITH ELECTRICAL OUTLETS.
[Symbol]	- 16"Ø CONCRETE ASH PAN.
[Symbol]	- WATER VALVE.
[Symbol]	- WATER METER.
[Symbol]	- FIRE HYDRANT.
[Symbol]	- GUY ANCHOR.

**VERTICAL DATUM**

ELEVATIONS ARE BASED UPON LINN COUNTY BENCHMARK NO. 93043 WITH AN ELEVATION OF 209.345.

**PROPOSED LEGEND**

[Symbol]	- CATCH BASIN / DITCH INLET
[Symbol]	- WATER METER
[Symbol]	- STREET SIGN
[Symbol]	- ASPHALT
[Symbol]	- GRAVEL / HARD SURFACE
XXX	- CONTOUR
[Symbol]	- RIGHT OF WAY
[Symbol]	- CENTERLINE
[Symbol]	- EASEMENT
[Symbol]	- LOT LINE
[Symbol]	- SANITARY MANHOLE
[Symbol]	- CLEAN OUT
[Symbol]	- STORM MH
[Symbol]	- GATE VALVE
[Symbol]	- TRUST BLOCK
[Symbol]	- FIRE HYDRANT
[Symbol]	- STREET LIGHT
[Symbol]	- STREET BARRICADE

**LOCATE**

(48 HOUR NOTICE PRIOR TO EXCAVATION)  
 OREGON LAW REQUIRES YOU TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090 & ORS 757.542 THROUGH 757.562 AND ORS 757.993. YOU MAY OBTAIN COPIES OF THE RULES FROM THE CENTER BY CALLING (503) 246-1987. ONE CALL SYSTEM NUMBER 1-800-332-2344.

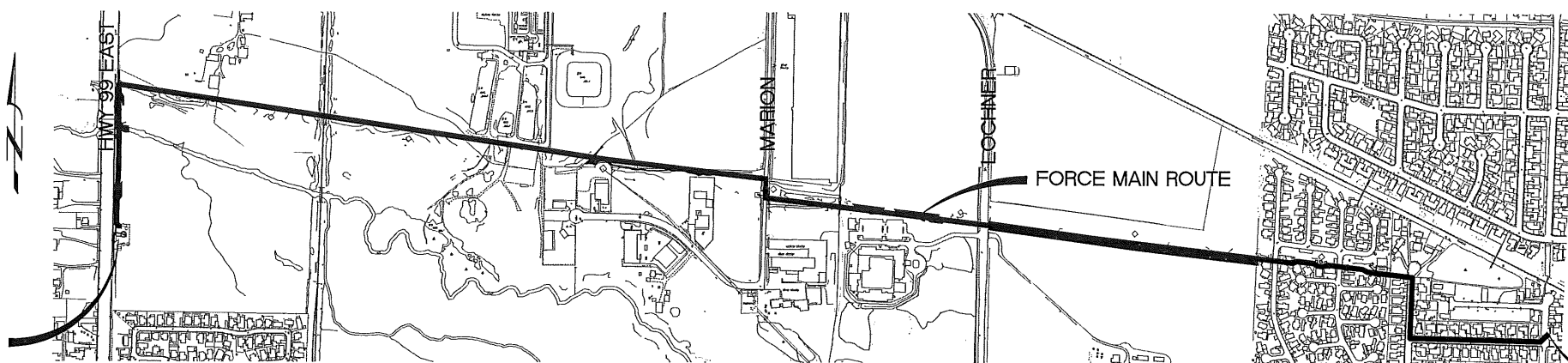
**SHEET INDEX**

SHEET FM01	COVER SHEET
SHEET FM02	FORCE MAIN PLAN & PROFILE - STA 0+00 TO 10+50
SHEET FM03	FORCE MAIN PLAN & PROFILE - STA 10+50 TO 22+50
SHEET FM04	FORCE MAIN PLAN & PROFILE - STA 22+50 TO 34+50
SHEET FM05	FORCE MAIN PLAN & PROFILE - STA 34+50 TO 46+50
SHEET FM06	FORCE MAIN PLAN & PROFILE - STA 46+50 TO 58+50
SHEET FM07	FORCE MAIN PLAN & PROFILE - STA 58+50 TO 70+50
SHEET FM08	FORCE MAIN PLAN & PROFILE - STA 70+50 TO 81+50
SHEET FM09	FORCE MAIN PLAN & PROFILE - STA 81+50 TO 91+50
SHEET FM10	FORCE MAIN PLAN & PROFILE - STA 91+50 TO 102+24
SHEET FM11	FORCE MAIN PLAN & PROFILE - PLAN AND PROFILE
SHEET FM12	MARION ST LIFT STATION DETAILS
SHEET FM13	EXISTING FORCE MAIN ABANDONMENT PLAN
SHEET FM14	FORCE MAIN DETAILS
SHEET FM15	STANDARD DETAILS
SHEET FM16	STANDARD DETAILS
SHEET FM17	EPSC PLAN
SHEET FM18	EPSC PLAN
SHEET FM19	EPSC PLAN
SHEET FM20	EPSC PLAN
SHEET FM21	EPSC PLAN

**RECORD DRAWING 6-30-14**  
 RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY K&D ENGINEERING, INC., AND SITE OBSERVATIONS.

**EPSC**

CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION PREVENTION SEDIMENT CONTROL (EPSC) MEASURES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE CITY OF ALBANY. AND VEGETATION/LANDSCAPING IS ESTABLISHED. FOR GUIDANCE, REFER TO THE CITY OF ALBANY EPSC MANUAL WHICH CAN BE FOUND AT: [www.cityofalbany.net](http://www.cityofalbany.net)



SITE PLAN

SCALE: 1" = 500'

DISCHARGE POINT IN COLUMBUS ST.

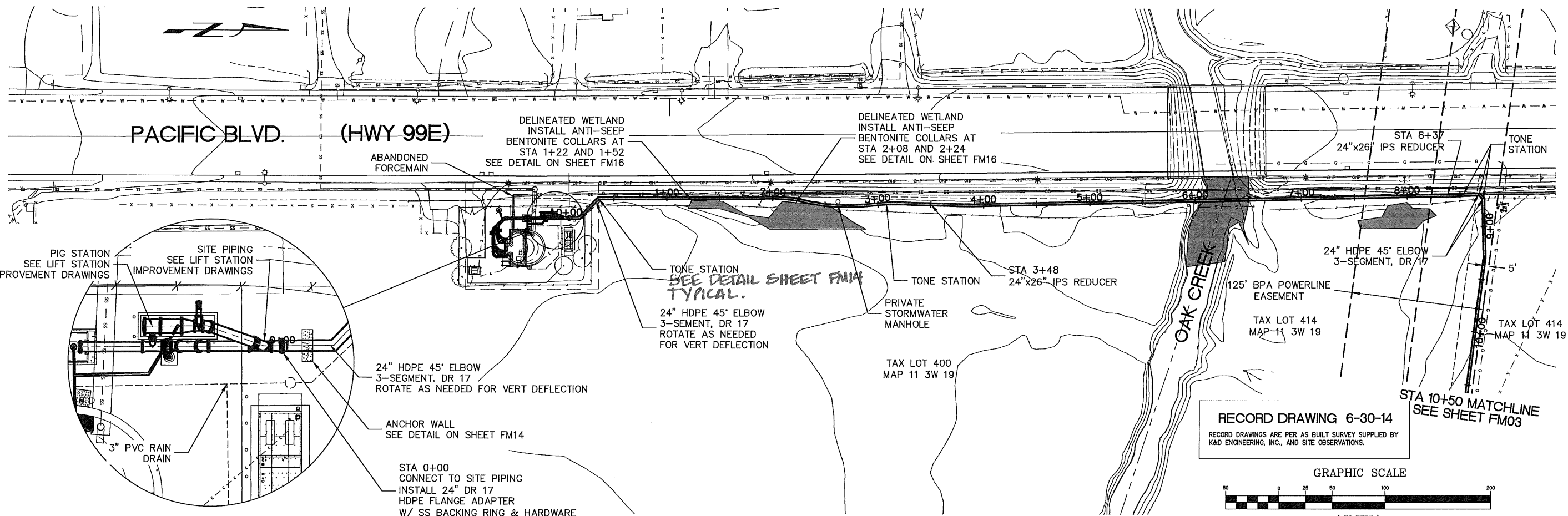
REV.	DATE	DESCRIPTION

IF THIS LINE IS NOT 1/8" SCALE IS NOT AS SHOWN

CITY OF ALBANY  
 333 BROADALBIN SW, ALBANY, OREGON 97102  
**SS-07-05 OAK CREEK LIFT STATION**  
**FORCE MAIN IMPROVEMENTS**  
**COVER SHEET**

Sheet No. **FM01** of 21  
 Date **04-23-13**  
 Project No. **2007-012**





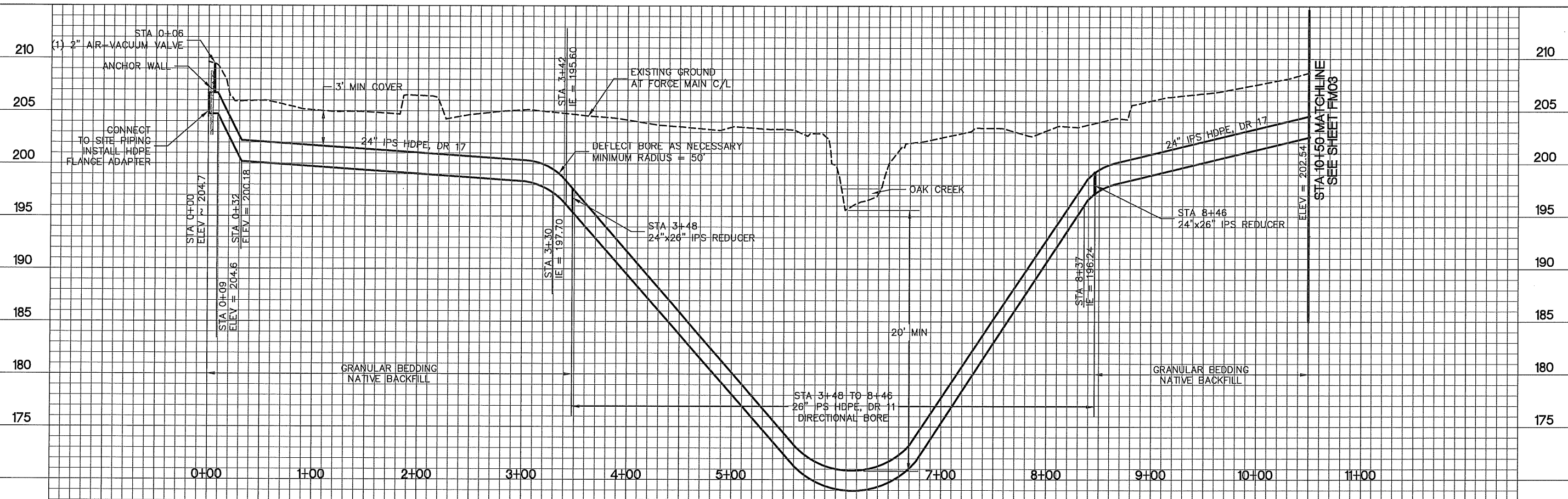
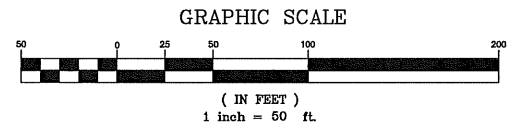
**CONNECTION DETAIL**

SCALE: 1" = 10'

**FORCE MAIN PLAN - STA 0+00 TO 10+50**

SCALE: 1" = 50'

**RECORD DRAWING 6-30-14**  
RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



**FORCE MAIN PROFILE - STA 0+00 TO 10+50**

SCALE: HORI 1" = 50'  
VERT 1" = 5'

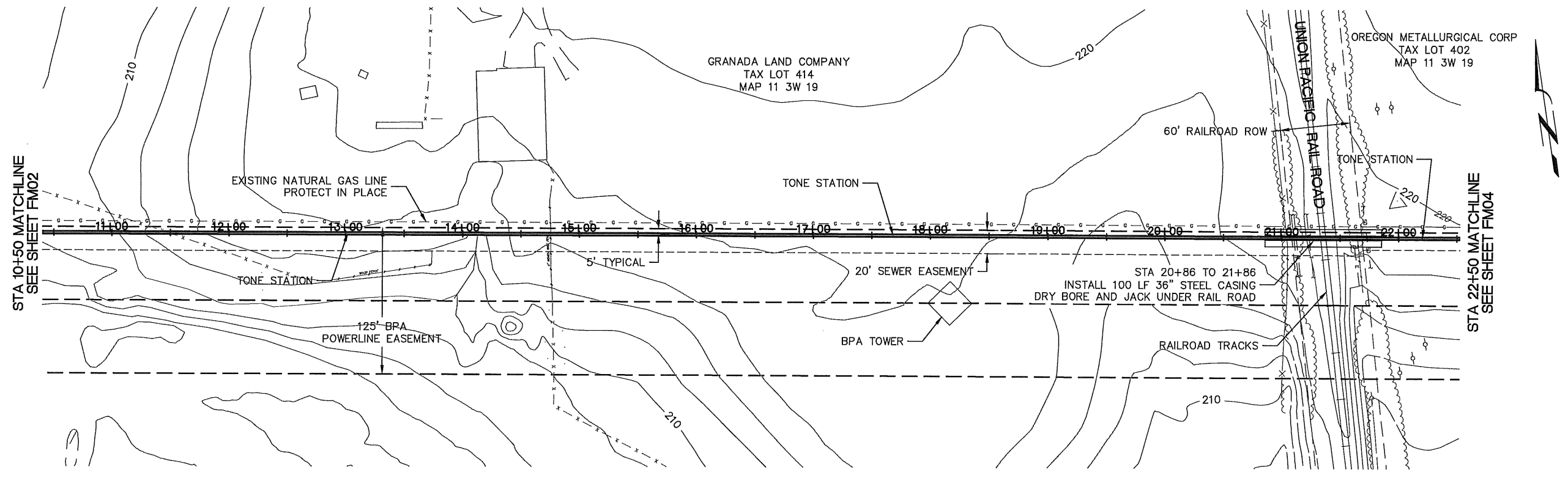


**H B H**  
2316 Portland Road, Suite H  
Newberg, Oregon 97132  
Consulting 503/554-9553 fax 503/537-9554  
Engineers email: mail@hbh-engineering.com

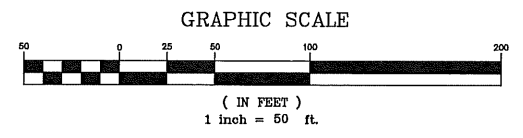
REV.	DATE	DESCRIPTION

**SS-07-05 OAK CREEK LIFT STATION  
FORCE MAIN IMPROVEMENTS  
FORCE MAIN PLAN + PROFILE  
STA 0+00 TO 10+50**

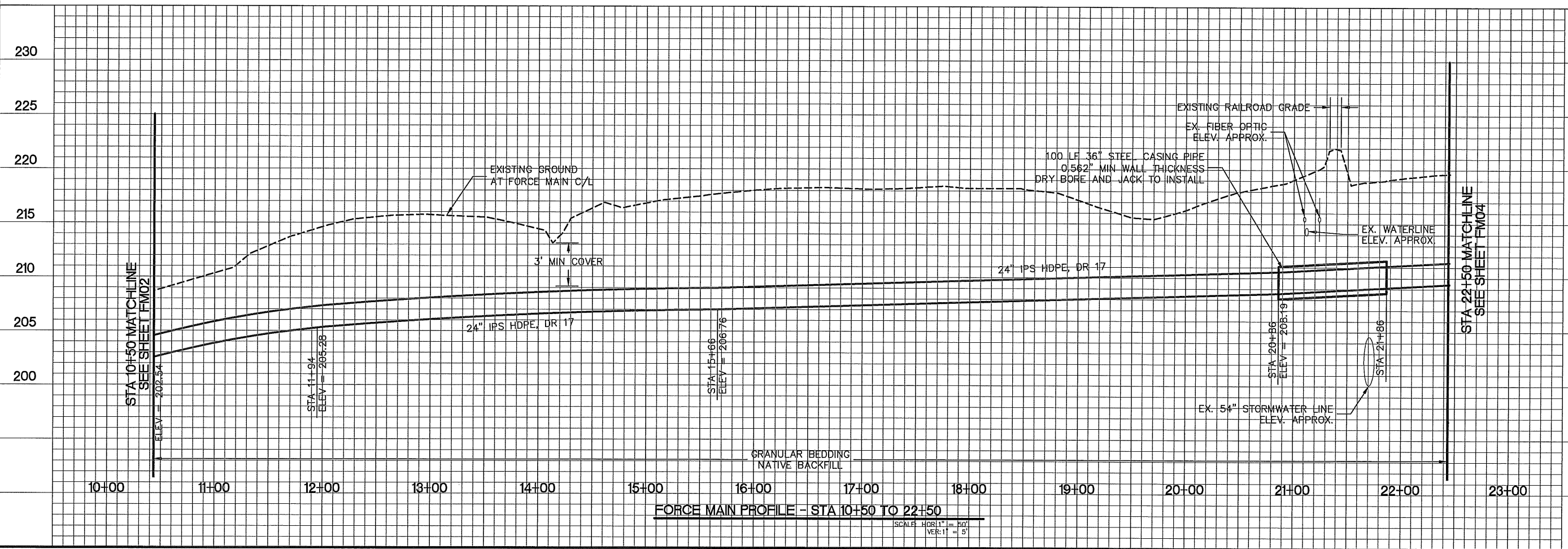
City of Albany, 333 Broadalbin SW, Albany, Oregon 97321  
**FM02**  
04-23-13  
2 of 21  
2007-012



**RECORD DRAWING 6-30-14**  
 RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY  
 K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



**FORCE MAIN PLAN - STA 10+50 TO 22+50**  
 SCALE: 1" = 50'



**FORCE MAIN PROFILE - STA 10+50 TO 22+50**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'



**H B H**  
 2316 Portland Road, Suite H  
 Newberg, Oregon 97132  
 Consulting 503/554-9553 fax 503/537-9554  
 Engineers email: mail@hbh-engineers.com

Designed By: BJC Drawn By: BJC Checked By: MDH Submitted No. File: L:\2007-012\DWG\FORCEMAIN FM03

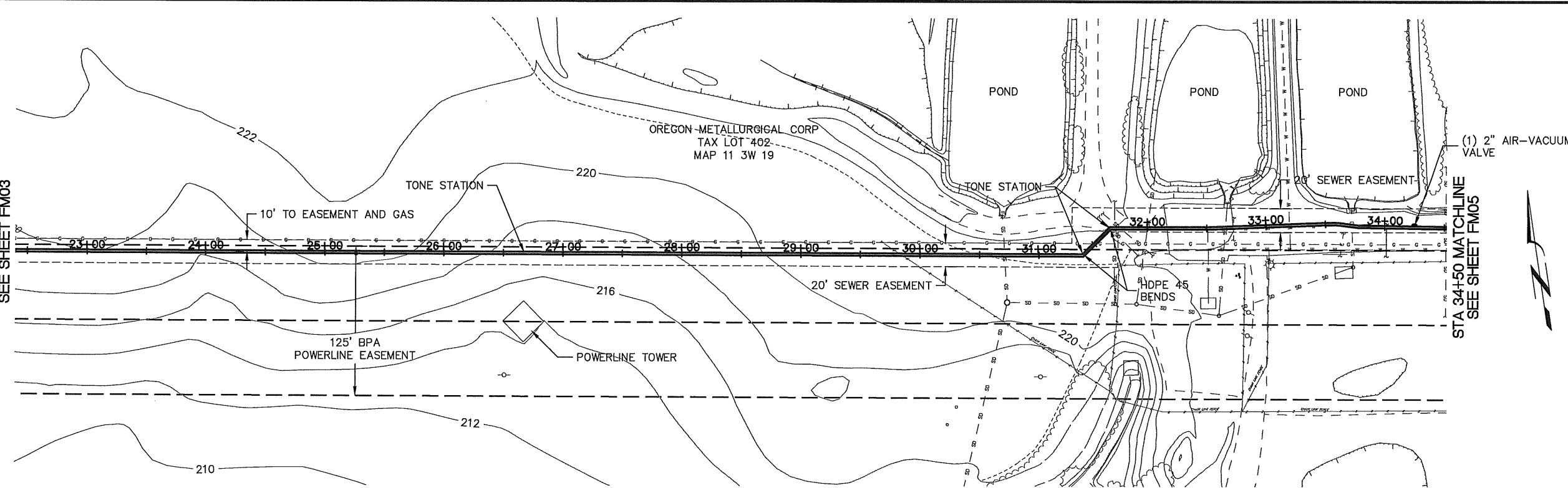
REV.	DATE	DESCRIPTION

CITY OF ALBANY, OREGON 97321  
 333 BROADALBIN SW, ALBANY, OREGON 97321

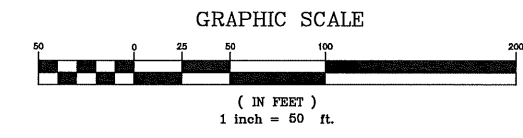
**SS-07-05 OAK CREEK LIFT STATION  
 FORCE MAIN IMPROVEMENTS  
 FORCE MAIN PLAN + PROFILE  
 STA 10+50 TO 22+50**

STA 22+50 MATCHLINE  
SEE SHEET FM03

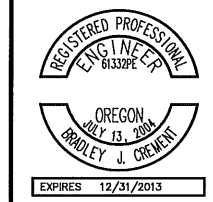
STA 34+50 MATCHLINE  
SEE SHEET FM05



**RECORD DRAWING 6-30-14**  
RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY  
K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



**FORCE MAIN PLAN - STA 22+50 TO 34+50**  
SCALE: 1" = 50'



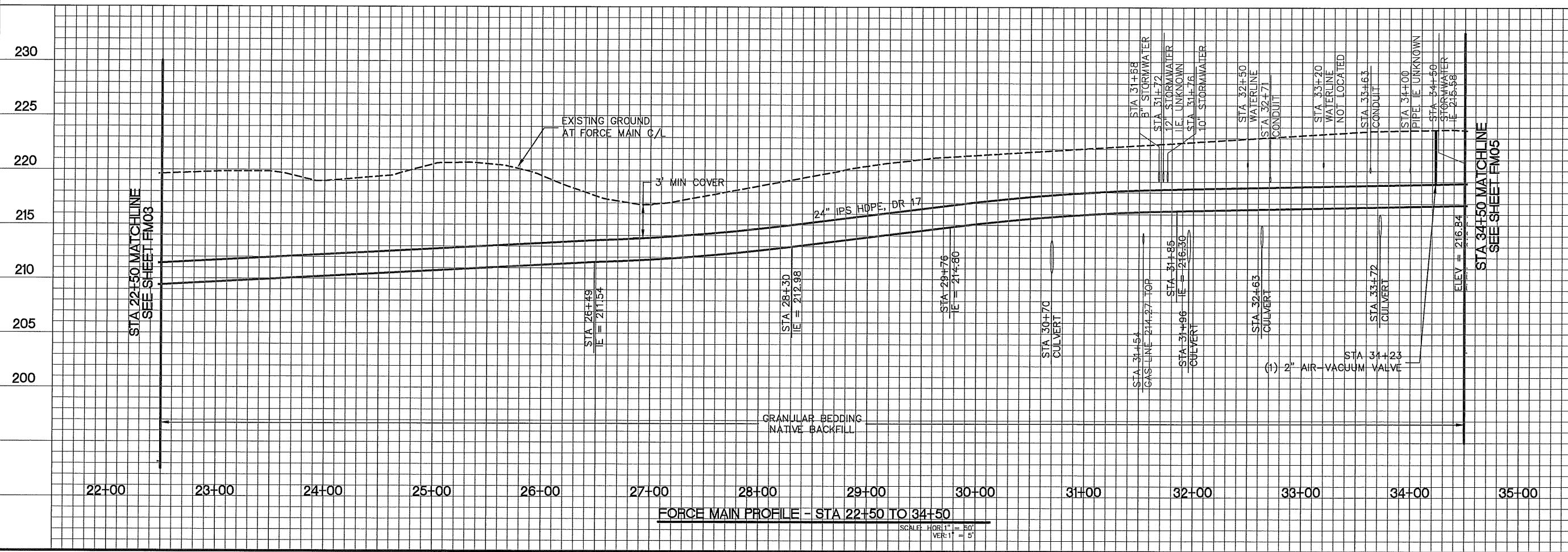
**H B H**  
2316 Portland Road, Suite H  
Newberg, Oregon 97132  
Consulting 503/554-9553 fax 503/537-9554  
Engineers email: mail@hbh-engineers.com

REV.	DATE	DESCRIPTION

CITY OF ALBANY  
333 BROADALBIN SW, ALBANY, OREGON 97321

**SS-07-05 OAK CREEK LIFT STATION  
FORCE MAIN IMPROVEMENTS  
FORCE MAIN PLAN + PROFILE  
STA 22+50 TO 34+50**

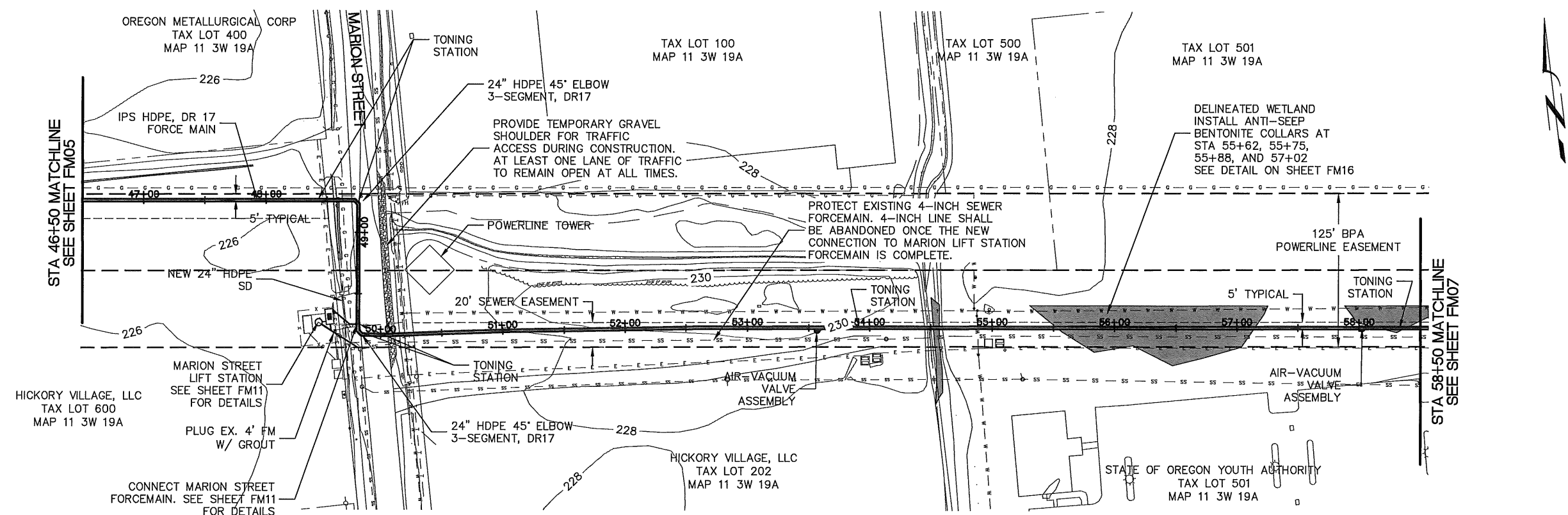
Sheet No. **FM04**  
Date **04-23-13**  
**4 of 21**  
2007-012



**FORCE MAIN PROFILE - STA 22+50 TO 34+50**  
SCALE: HORIZ 1" = 50'  
VERT 1" = 5'

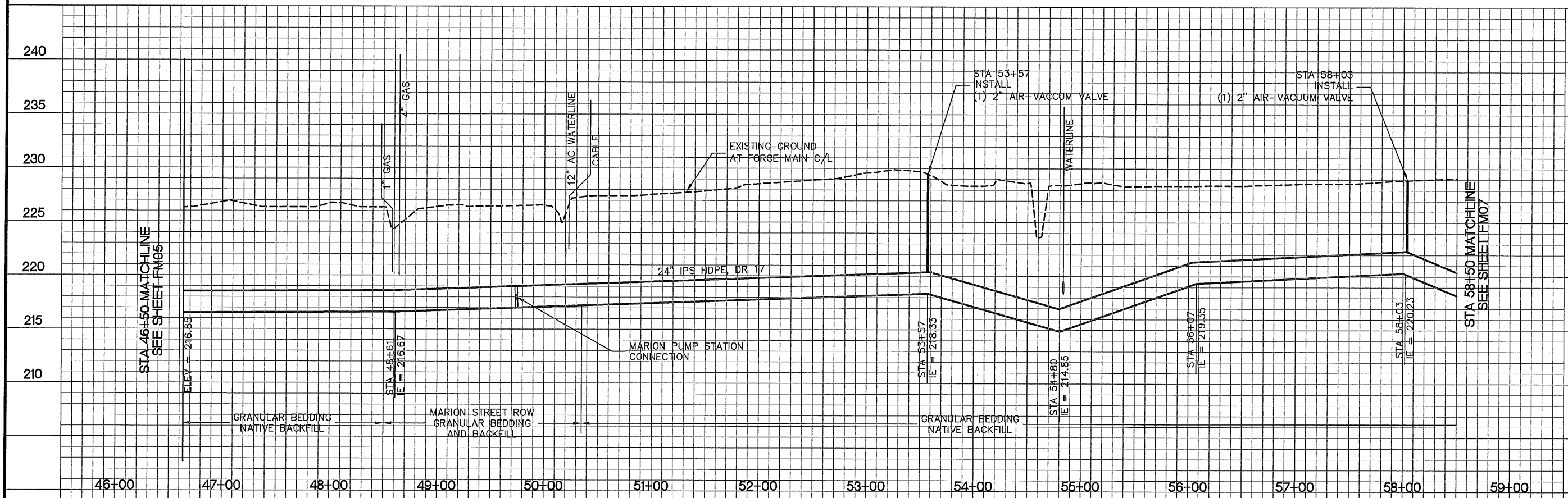
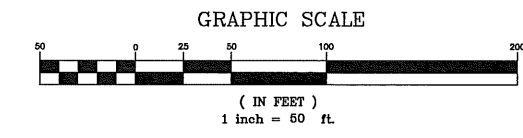






**FORCE MAIN PLAN - STA 46+50 TO 58+50**  
SCALE: 1" = 50'

**RECORD DRAWING 6-30-14**  
RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



**FORCE MAIN PROFILE - STA 46+50 TO 58+50**  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

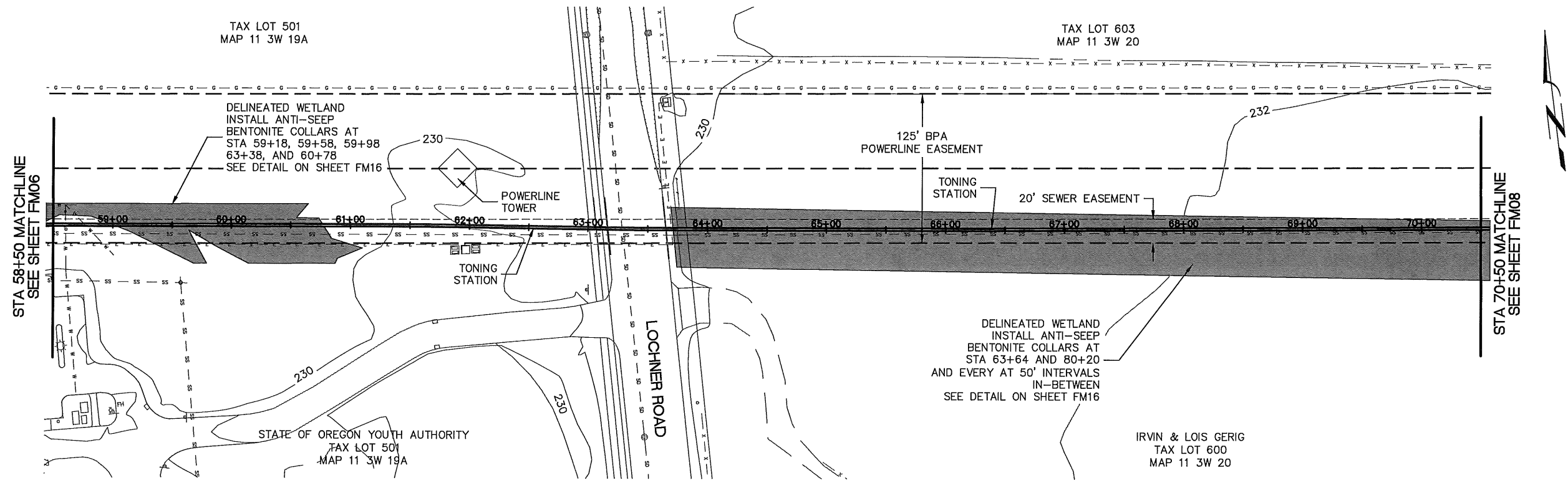


**H B H**  
Consulting Engineers  
2316 Portland Road, Suite H  
Newberg, Oregon 97132  
503/554-9553 fax 503/537-9554  
email: mail@hbb-engineers.com

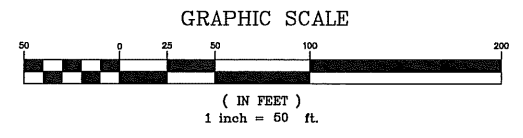
REV.	DATE	DESCRIPTION

CITY OF ALBANY  
333 BROADALBIN SW, ALBANY, OREGON 97321  
**SS-07-05 OAK CREEK LIFT STATION  
FORCE MAIN IMPROVEMENTS  
FORCE MAIN PLAN + PROFILE  
STA 46+50 TO 58+50**

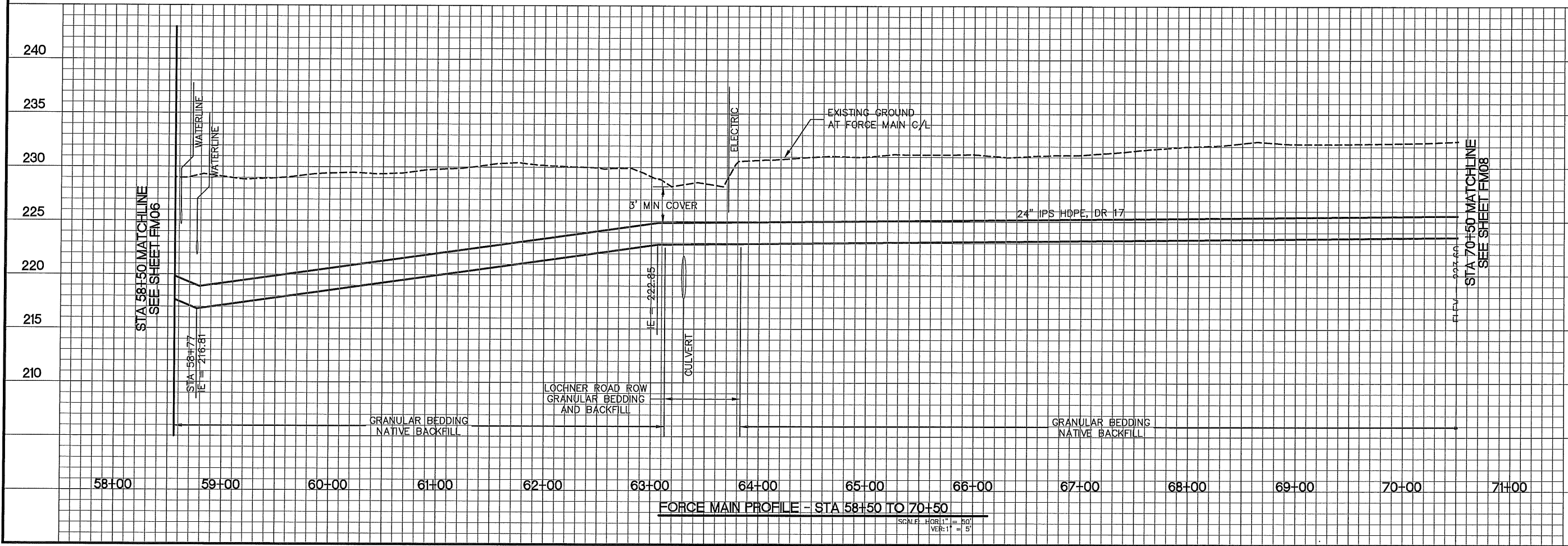
Sheet No. **FM06**  
Date **04-23-13**  
**6 of 21**  
2007-012



**RECORD DRAWING 6-30-14**  
 RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY  
 K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



**FORCE MAIN PLAN - STA 58+50 TO 70+50**  
 SCALE: 1" = 50'



H B H  
 2316 Portland Road, Suite H  
 Newberg, Oregon 97132  
 Consulting 503/554-9553 fax 503/537-9554  
 Engineers email: mail@hbh-engineers.com

Designed By: BJC  
 Drawn By: BJC  
 Checked By: MDH  
 Submitted No: FM07  
 Layout: FM07

REV.	DATE	DESCRIPTION

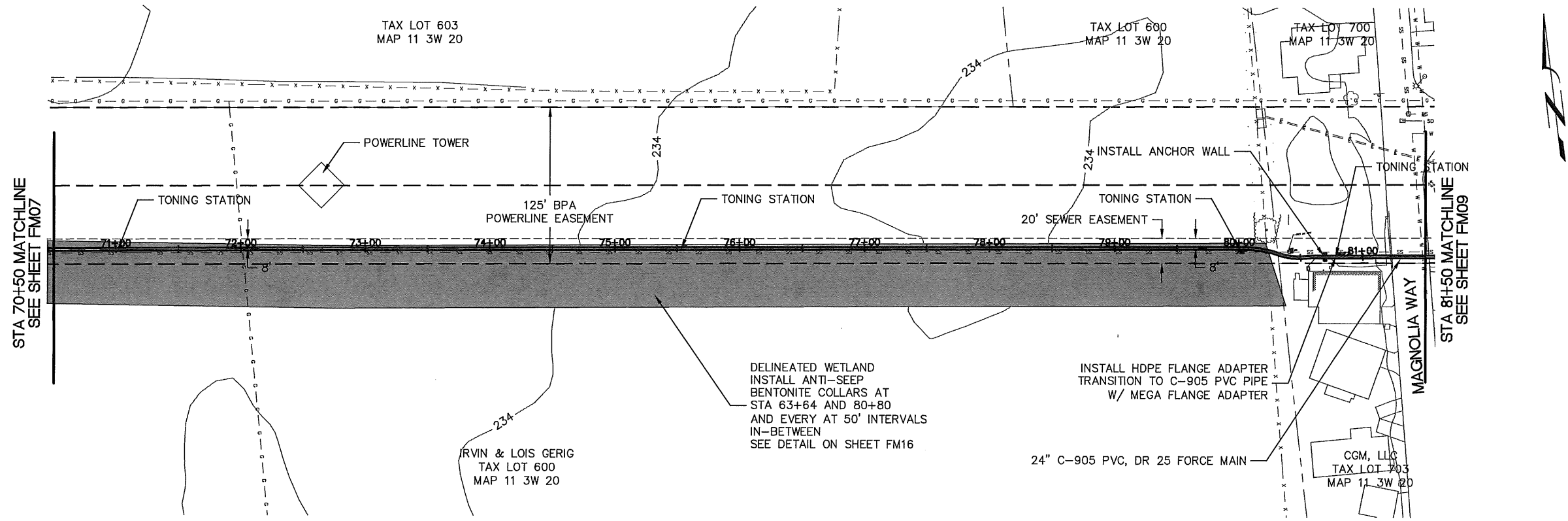
CITY OF ALBANY  
 333 BROADALBIN SW, ALBANY, OREGON 97321

**SS-07-05 OAK CREEK LIFT STATION  
 FORCE MAIN IMPROVEMENTS  
 FORCE MAIN PLAN + PROFILE  
 STA 58+50 TO 70+50**

Sheet No: **FM07**  
 Date: **04-23-13**  
 2007-012

7 of 21

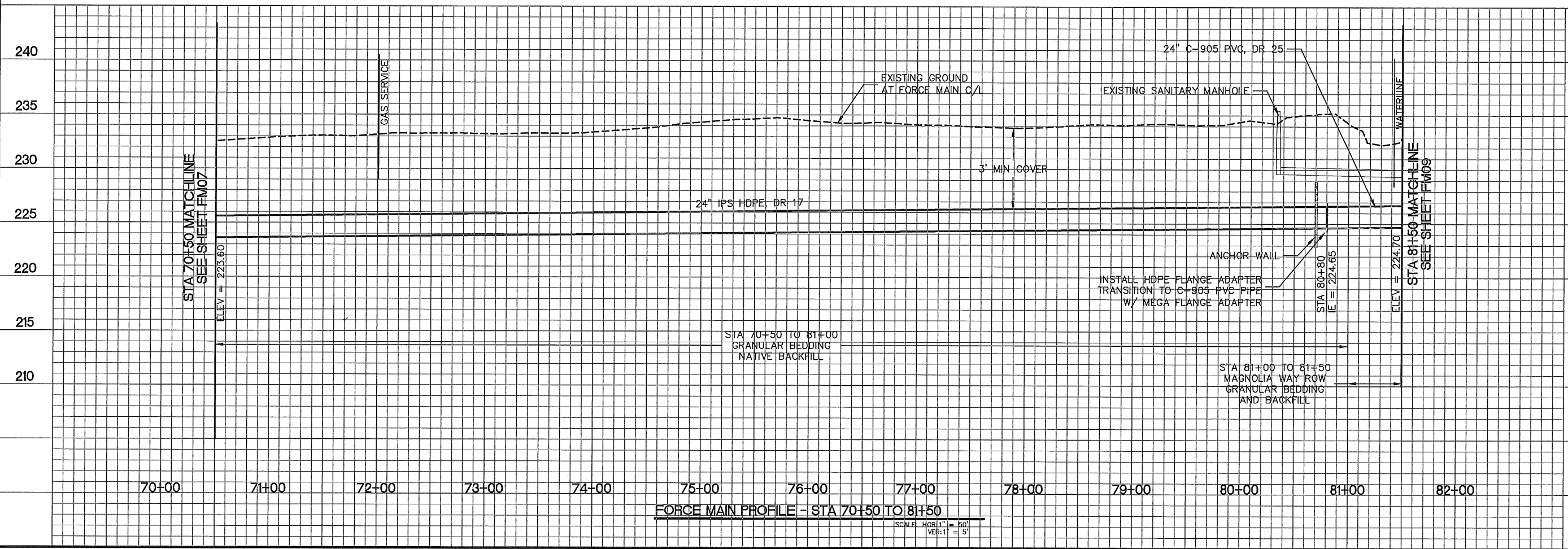
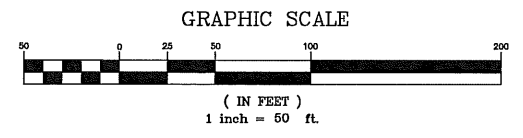




**FORCE MAIN PLAN - STA 70+50 TO 81+50**

SCALE: 1" = 50'

**RECORD DRAWING 6-30-14**  
 RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY  
 K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



**FORCE MAIN PROFILE - STA 70+50 TO 81+50**

SCALE: HORIZ. = 50'  
 VERT. = 5'

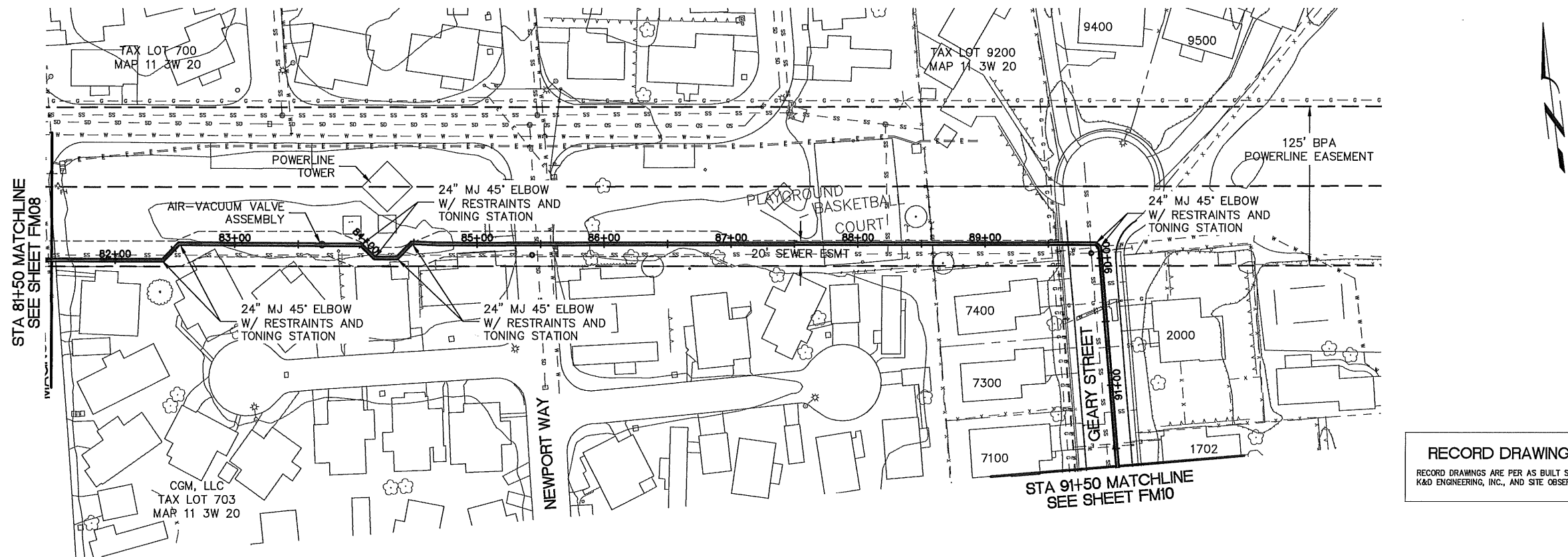


**H B H**  
 Consulting Engineers  
 2316 Portland Road, Suite H  
 Newberg, Oregon 97132  
 503/554-9553 fax 503/537-9554  
 email: mail@hbh-engineers.com

REV.	DATE	DESCRIPTION

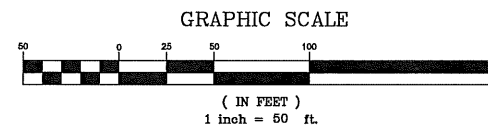
**SS-07-05 OAK CREEK LIFT STATION  
 FORCE MAIN IMPROVEMENTS  
 FORCE MAIN PLAN + PROFILE  
 STA 70+50 TO 81+50**

City of Albany, Oregon 97321  
 333 Broadalein SW, Albany, Oregon 97321  
**FM08**  
 04-23-13  
 2007-012  
 8 of 21



**FORCE MAIN PLAN - STA 81+50 TO 91+50**

SCALE: 1" = 50'



**RECORD DRAWING 6-30-14**

RECORD DRAWINGS ARE PER AS BUILT SURVEY SUPPLIED BY K&D ENGINEERING, INC., AND SITE OBSERVATIONS.



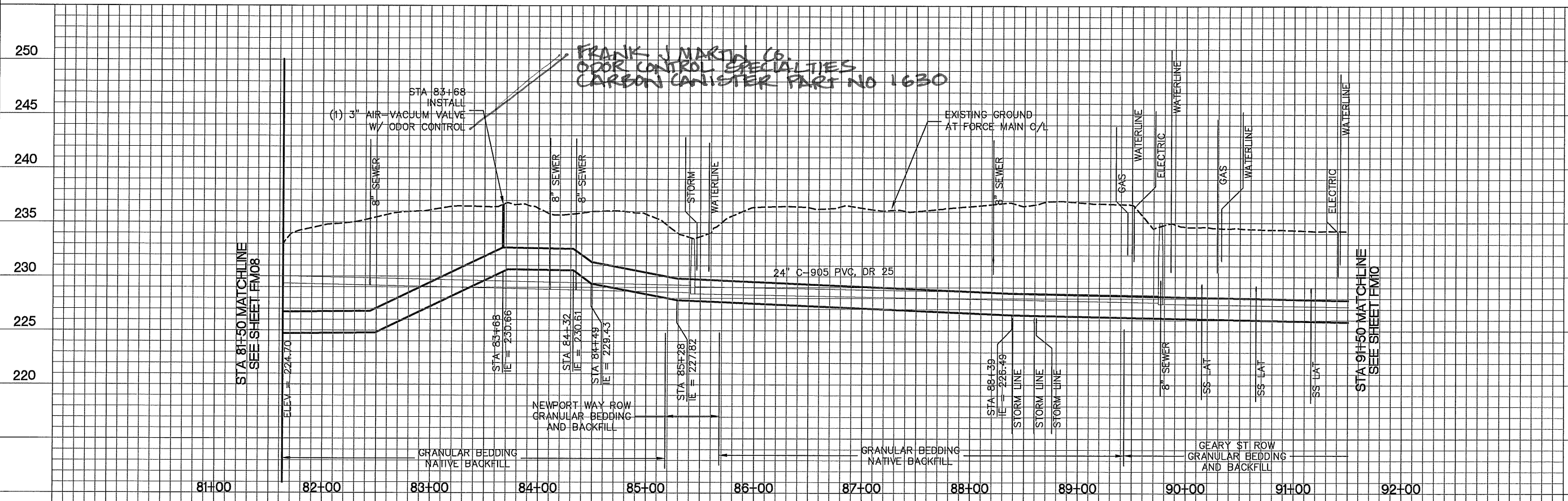
**H B H**  
 Consulting Engineers  
 2316 Portland Road, Suite H  
 Newberg, Oregon 97132  
 503/554-9553 fax 503/537-9554  
 email: mail@hbh-engineers.com

REV.	DATE	DESCRIPTION

IF THIS LINE IS NOT 1 INCH SCALE IS NOT AS SHOWN

**SS-07-05 OAK CREEK LIFT STATION  
 FORCE MAIN IMPROVEMENTS  
 FORCE MAIN PLAN + PROFILE  
 STA 81+50 TO 91+50**

City of Albany  
 333 Broadalbin SW, Albany, Oregon 97321  
**FM09**  
 04-23-13  
 2007-012  
 9 of 21



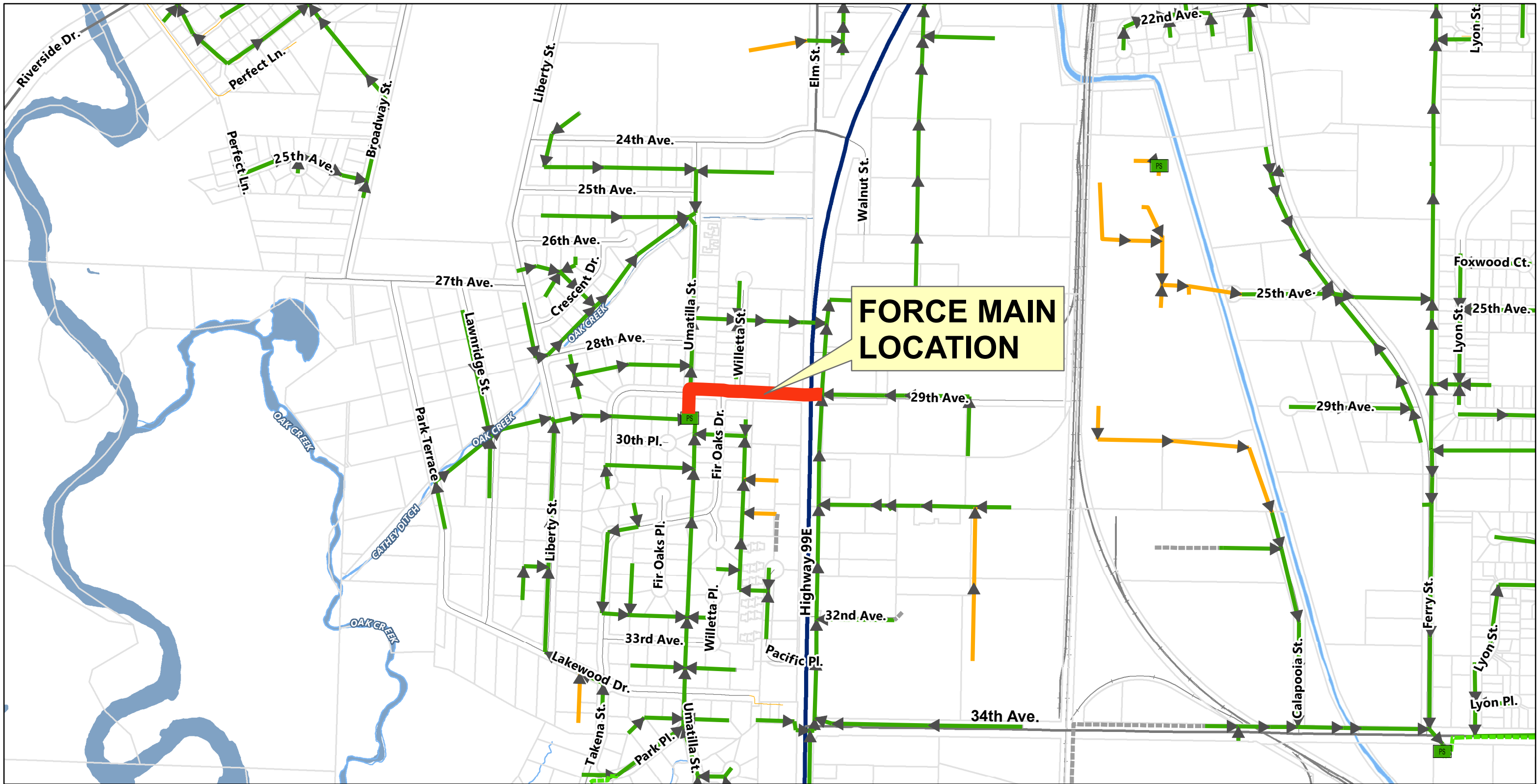
**FORCE MAIN PROFILE - STA 81+50 TO 91+50**

SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

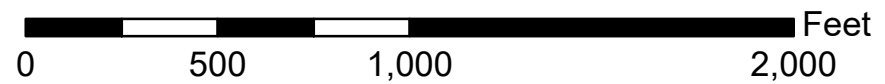








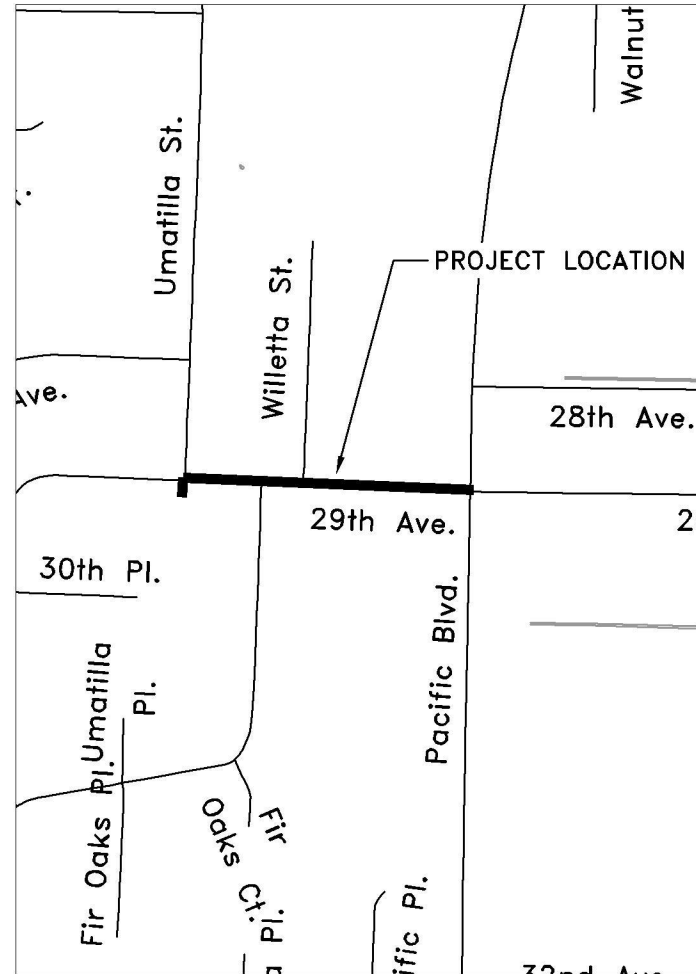
**UMATILLA FORCE MAIN VICINITY MAP**



# CITY OF ALBANY

## SS-16-02, UMATILLA LS AND FORCE MAIN IMPROVEMENTS

SHEET INDEX	
Sheet Number	Sheet Title
1	COVER
2	STA 0+00 TO 1+50
3	STA 1+50 TO 5+00
4	5+00 TO END
5	DRYWELL DETAILS
6	PUMP BASE FABRICATION DETAILS
7	PIGGING VAULT DETAILS



Vicinity Map  
Not to Scale

### GENERAL NOTES

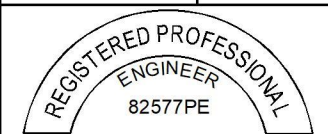
1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS AND ASSOCIATED STANDARD DRAWINGS. THE CURRENT VERSION OF THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE CITY'S WEBSITE AT [WWW.CITYOFALBANY.NET](http://WWW.CITYOFALBANY.NET).
2. UTILITIES SHOWN ARE FOR REFERENCE ONLY. FOR A FIELD LOCATE, CALL THE UTILITIES NOTIFICATIONS CENTER AT 1-800-332-2344.
3. OPERATING ACCESS FOR CITY MAINTENANCE PERSONNEL TO EXISTING AND NEW WATER VALVES AND MANHOLES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING ALL CONSTRUCTION ACTIVITIES.
4. CONTRACTOR SHALL VERIFY ALL EXISTING PIPE ELEVATIONS, PIPE DIAMETERS, AND PIPE MATERIALS AT CONNECTION AND ABANDONMENT LOCATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BEGINNING WORK.
5. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION PREVENTION SEDIMENT CONTROL (EPSC) MEASURES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE CITY OF ALBANY, AND VEGETATION/LANDSCAPING IS ESTABLISHED. FOR GUIDANCE, REFER TO THE CITY OF ALBANY EPSC MANUAL WHICH CAN BE FOUND AT [www.cityofalbany.net](http://www.cityofalbany.net).

DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: BY:
CHECKED: F. LAST	AS-BUILT
DATE: ----	DATE: 12/27/16
	NO: --
	BY: --

**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING SERVICES**



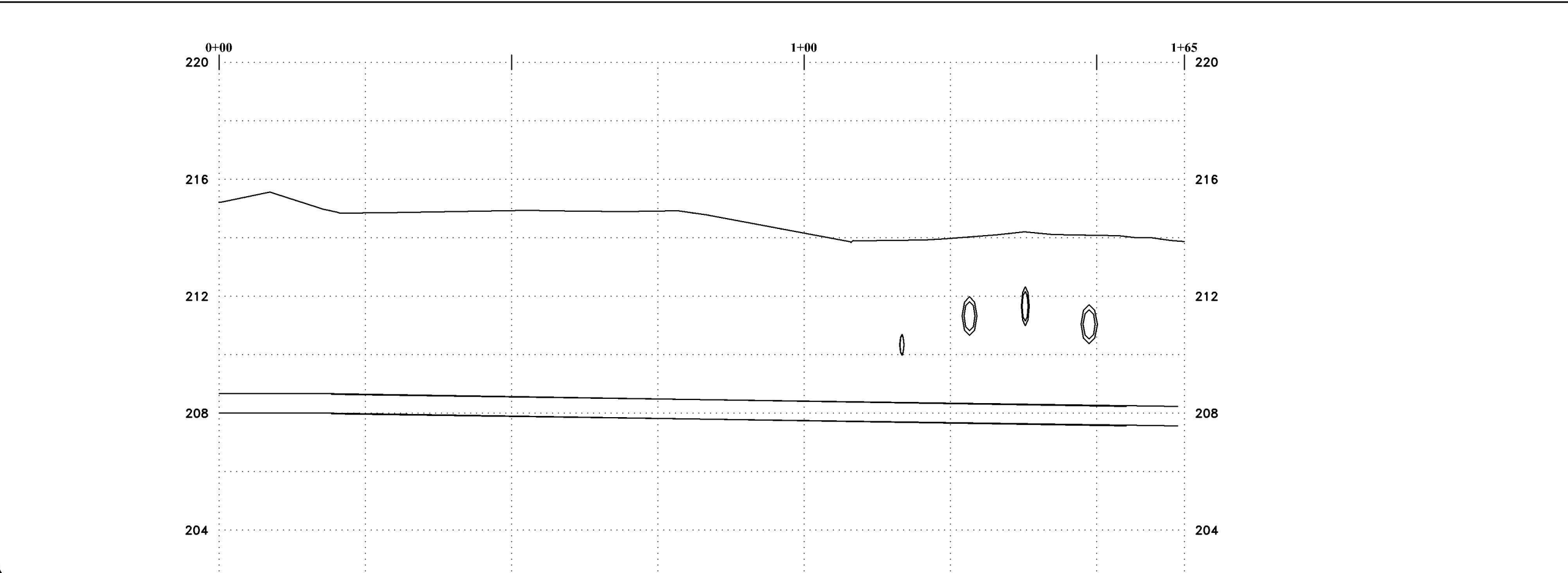
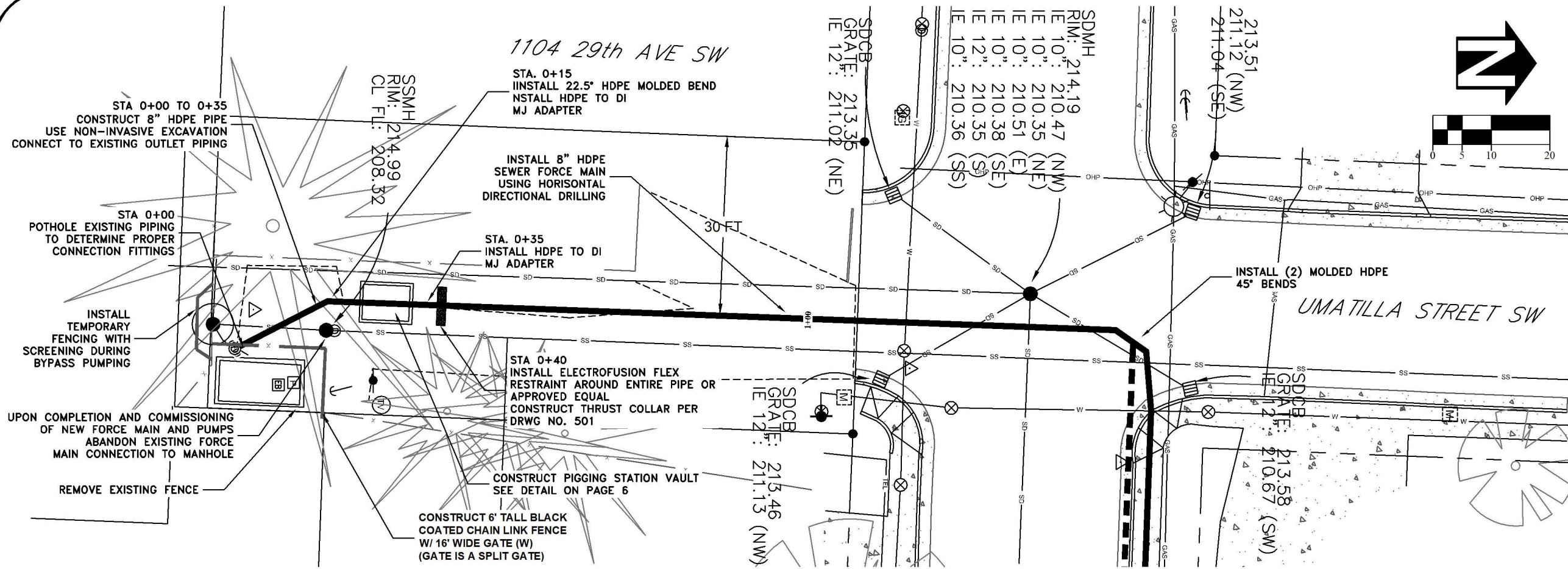
**SS-16-02, UMATILLA LS AND FORCE MAIN IMPROVEMENTS**



EXPIRATION DATE: 12/31/2016

SHEET NO. 1 OF 7  
PROJECT NO: SS-16-02  
FILE: FILENAME.DWG





DESIGNED: N. NELSON  
 DRAWN: N. NELSON  
 CHECKED: F. LAST  
 DATE: -----

REVISIONS	
NO.	BY:
12/27/16	NJN
AS-BUILT	NJN

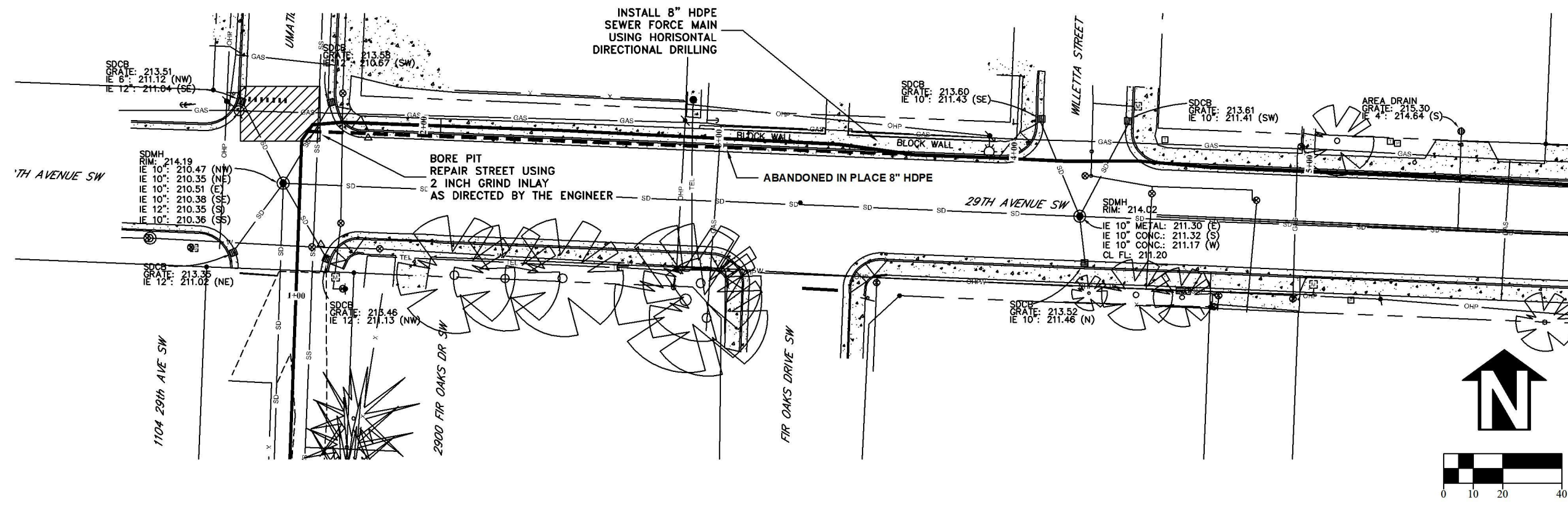
**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING SERVICES**

**SS-16-02, UMATILLA LS AND FORCE MAIN IMPROVEMENTS**  
 STA 0+00 TO 1+50



EXPIRATION DATE: 12/31/2016

SHEET NO. 2 OF 7  
 PROJECT NO: SS-16-02  
 FILE: BASE.DWG

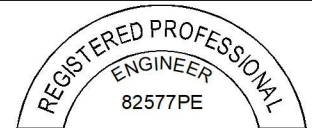
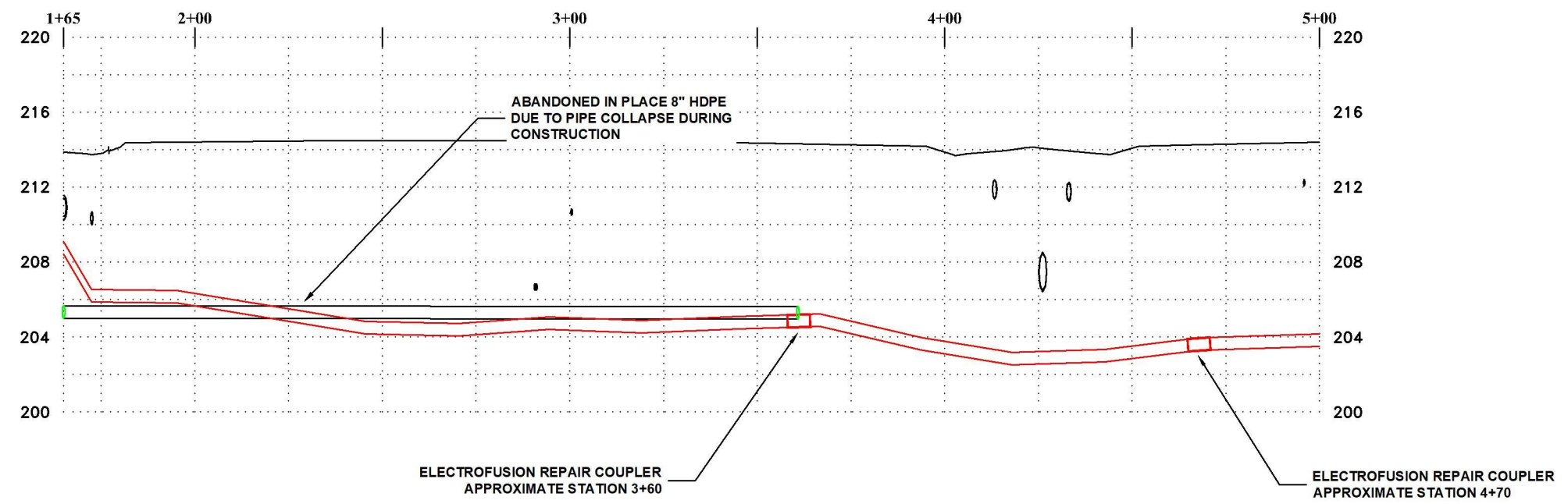


DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO. BY:
CHECKED: F. LAST	12/27/16 AS-BUILT NJN
DATE: ---	---

PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES



SS-16-02, UMATILLA LS AND FORCE MAIN IMPROVEMENTS  
STA 1+50 TO 5+00



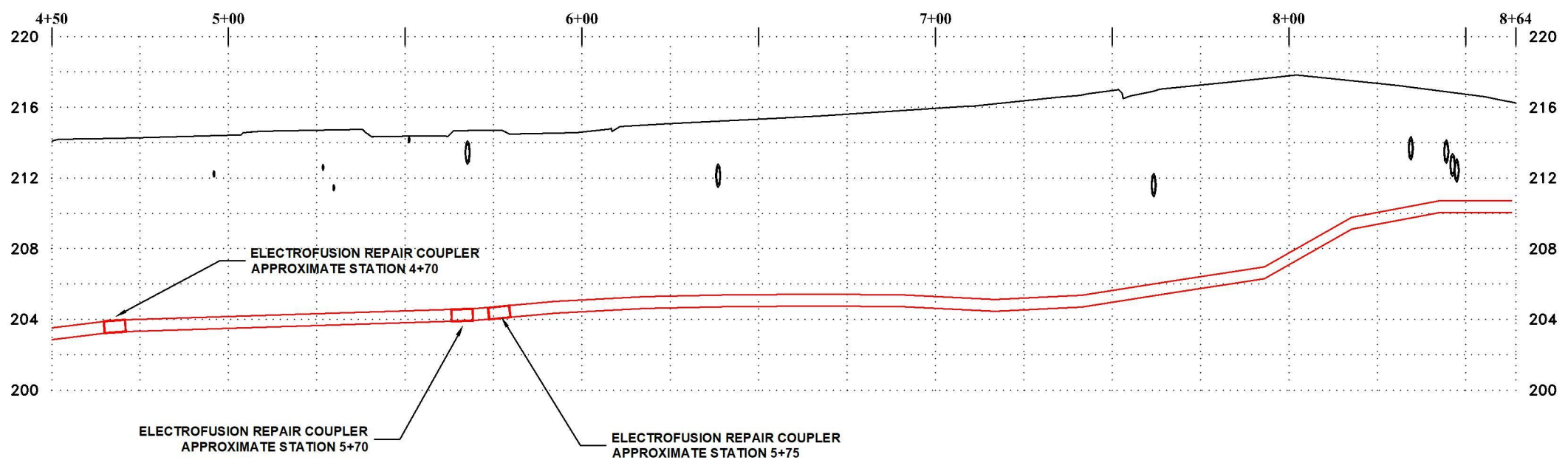
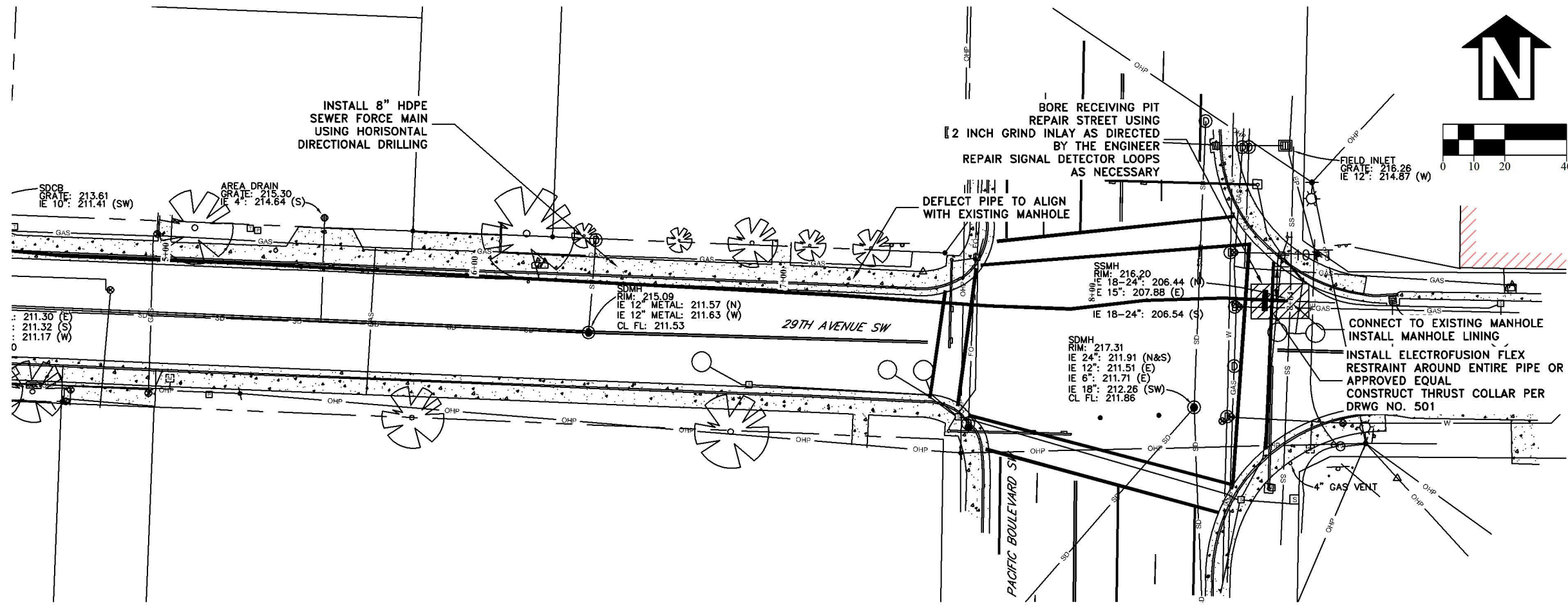
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SHEET NO. 3 OF 7

PROJECT NO: SS-16-02

FILE: BASE.DWG

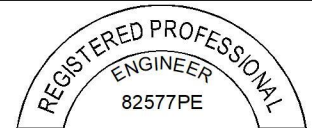




DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO. BY:
CHECKED: F. LAST	AS-BUILT NJN
DATE: ---	DATE: 12/27/16

**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING SERVICES**

**SS-16-02, UMATILLA LS AND FORCE MAIN IMPROVEMENTS**  
**5+00 TO END**



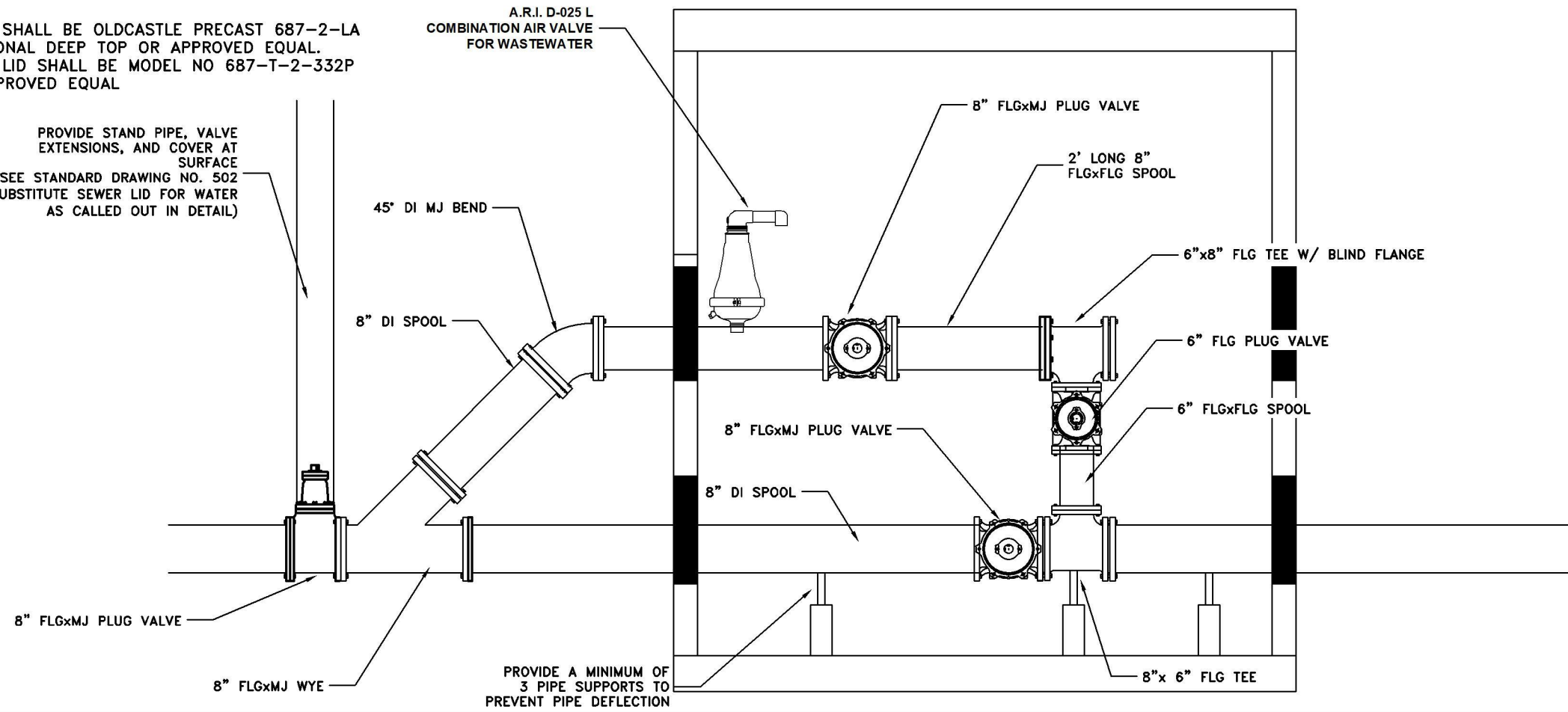
EXPIRATION DATE: 12/31/2016

SHEET NO.	4 OF 7
PROJECT NO:	SS-16-02
FILE:	BASE.DWG



- NOTES:
- VAULT SHALL BE OLDCASTLE PRECAST 687-2-LA WITH OPTIONAL DEEP TOP OR APPROVED EQUAL.
  - VAULT LID SHALL BE MODEL NO 687-T-2-332P OR APPROVED EQUAL

PROVIDE STAND PIPE, VALVE EXTENSIONS, AND COVER AT SURFACE  
SEE STANDARD DRAWING NO. 502  
(SUBSTITUTE SEWER LID FOR WATER AS CALLED OUT IN DETAIL)



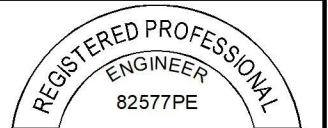
A.R.I. D-025 L  
COMBINATION AIR VALVE  
FOR WASTEWATER

DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: BY:
CHECKED: F. LAST	12/27/16 AS-BUILT NJN
DATE: ----	---

PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES

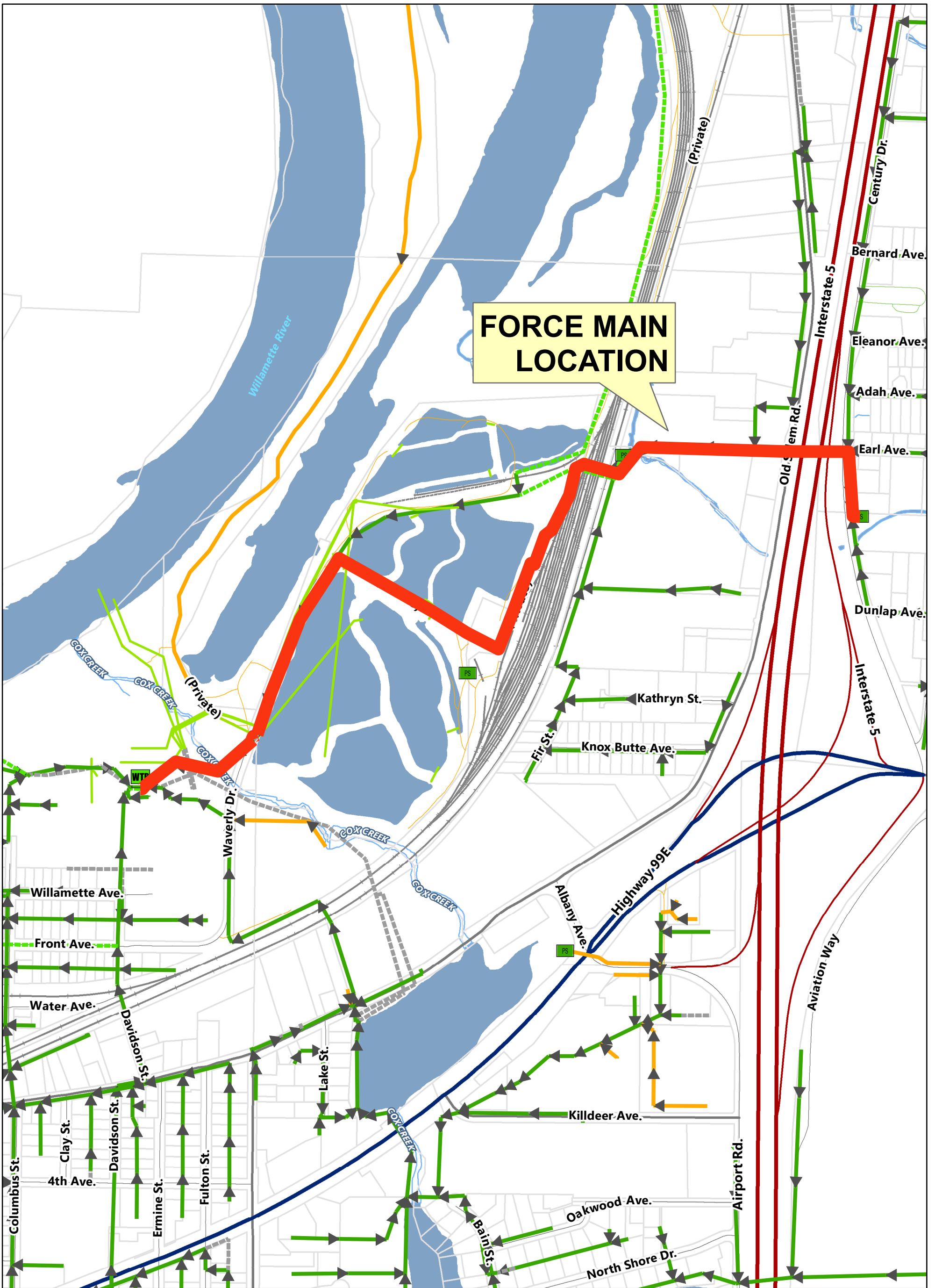


SS-16-02, UMATILLA LS AND FORCE MAIN IMPROVEMENTS  
PIGGING VAULT DETAILS



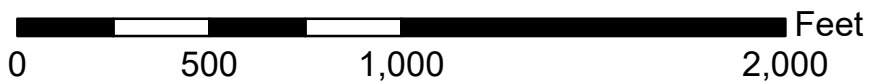
EXPIRATION DATE: 12/31/2016

SHEET NO. 7 OF 7  
PROJECT NO: SS-16-02  
FILE: BASE.DWG



**FORCE MAIN  
LOCATION**

**CENTURY DRIVE FORCE MAIN VICINITY MAP**

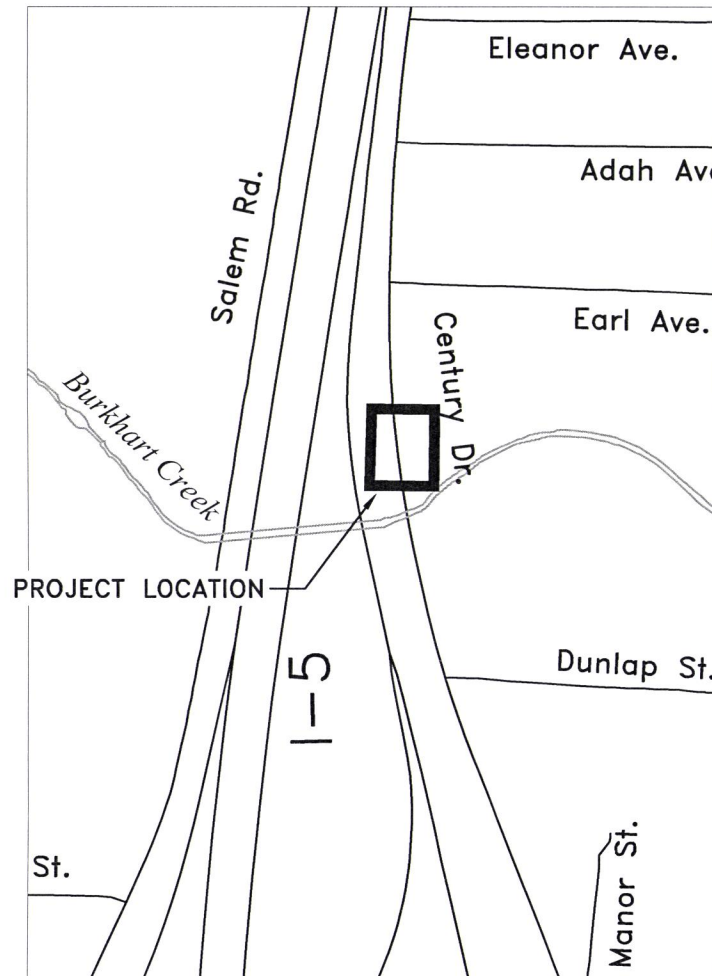




# CITY OF ALBANY

## SS-15-03, CENTURY DRIVE LIFT STATION IMPROVEMENTS

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	SITE PLAN
3	DEMOLITION PROFILE (NOT TO SCALE)
4	CONSTRUCTION PROFILE (NOT TO SCALE)
5	JUNCTION BOX DETAILS
6	ELECTRIC ONE LINE DIAGRAM



Vicinity Map  
Not to Scale

### GENERAL NOTES

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DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: ---
CHECKED: S. BELCASTRO	BY: N. NELSON
DATE: 12/5/2014	AS-BUILT: ---
	DATE: 8/29/2016

PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES



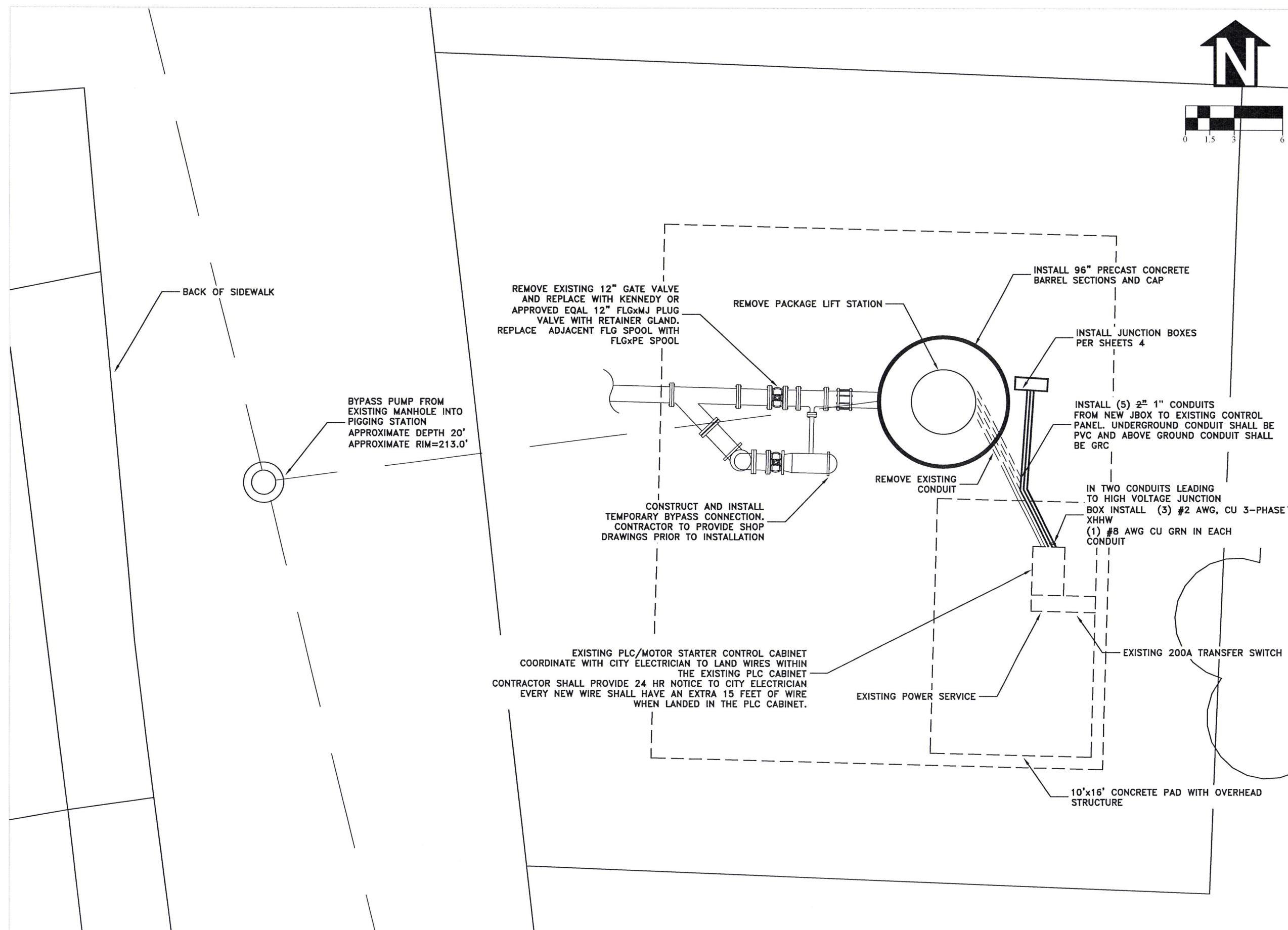
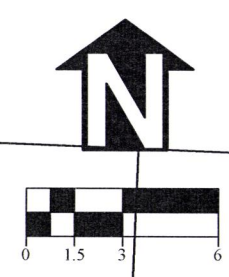
SS-15-03, CENTURY DRIVE LIFT STATION IMPROVEMENTS



EXPIRATION DATE: 12/31/2014

SHEET NO. 1 OF 6  
PROJECT NO: SS-15-03  
FILE: FILENAME.DWG





DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: BY:
CHECKED: S. BELCASTRO	9/29/2016 AS-BUILT N. NELSON
DATE: 12/5/2014	

PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES

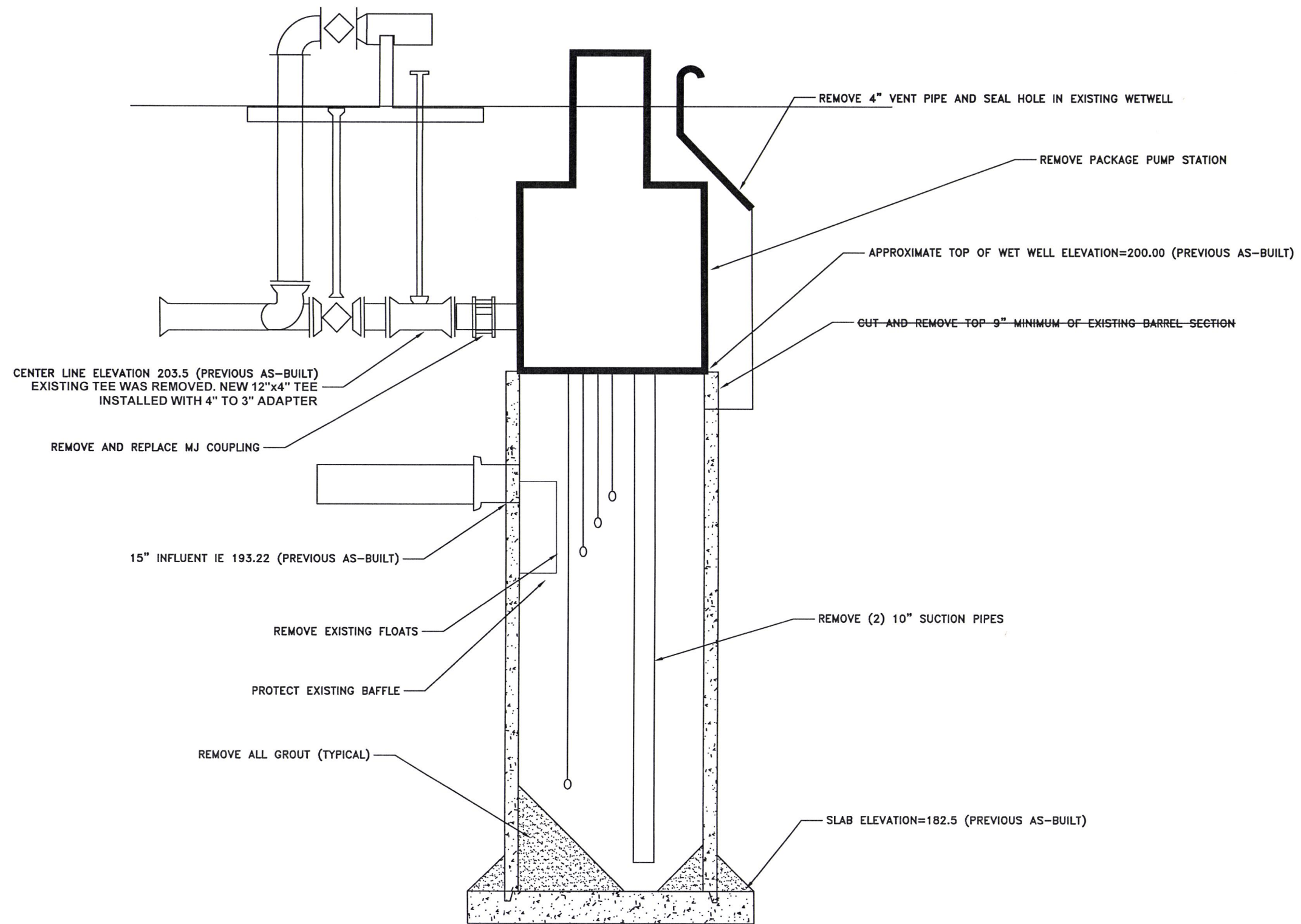


SS-15-03, CENTURY DRIVE LIFT STATION IMPROVEMENTS  
SITE PLAN



EXPIRATION DATE: 12/31/2014

SHEET NO. 2 OF 6  
PROJECT NO: SS-15-03  
FILE: BASE.DWG



DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: BY:
CHECKED: S. BELCASTRO	8/28/2016 AS-BUILT N. NELSON
DATE: 12/5/2014	---

**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING SERVICES**

**SS-15-03, CENTURY DRIVE LIFT STATION IMPROVEMENTS**  
DEMOLITION PROFILE (NOT TO SCALE)



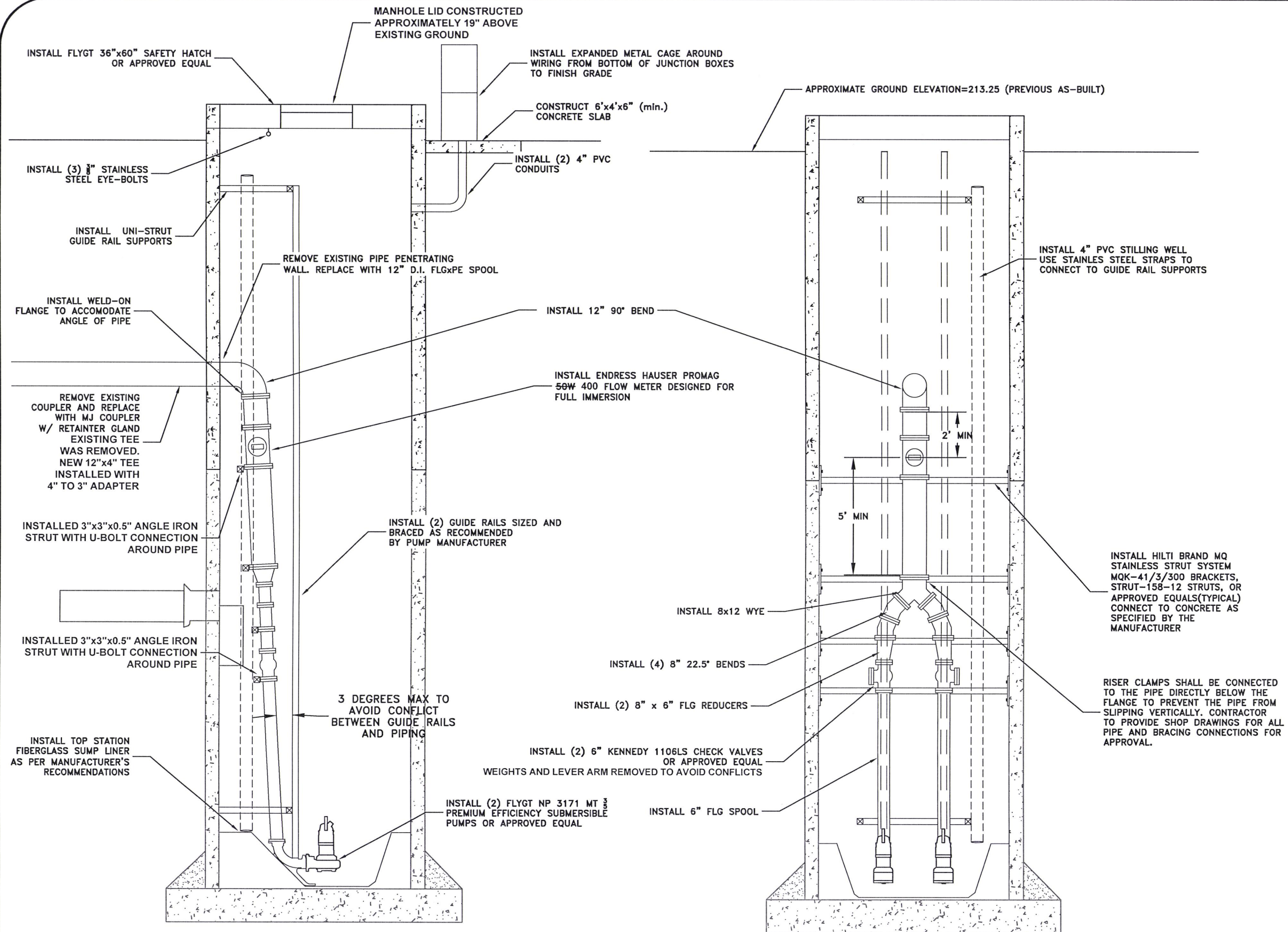
REGISTERED PROFESSIONAL  
ENGINEER  
82577PE

OREGON  
JUNE 29, 2009  
NOLAN J. NELSON

EXPIRATION DATE: 12/31/2014

SHEET NO. 3 OF 6  
PROJECT NO: SS-15-03  
FILE: BASE.DWG





DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: BY:
CHECKED: S. BELCASTRO	AS-BUILT N. NELSON
DATE: 12/5/2014	DATE: 8/29/2016

**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING SERVICES**

**SS-15-03, CENTURY DRIVE LIFT STATION IMPROVEMENTS**  
CONSTRUCTION PROFILE (NOT TO SCALE)



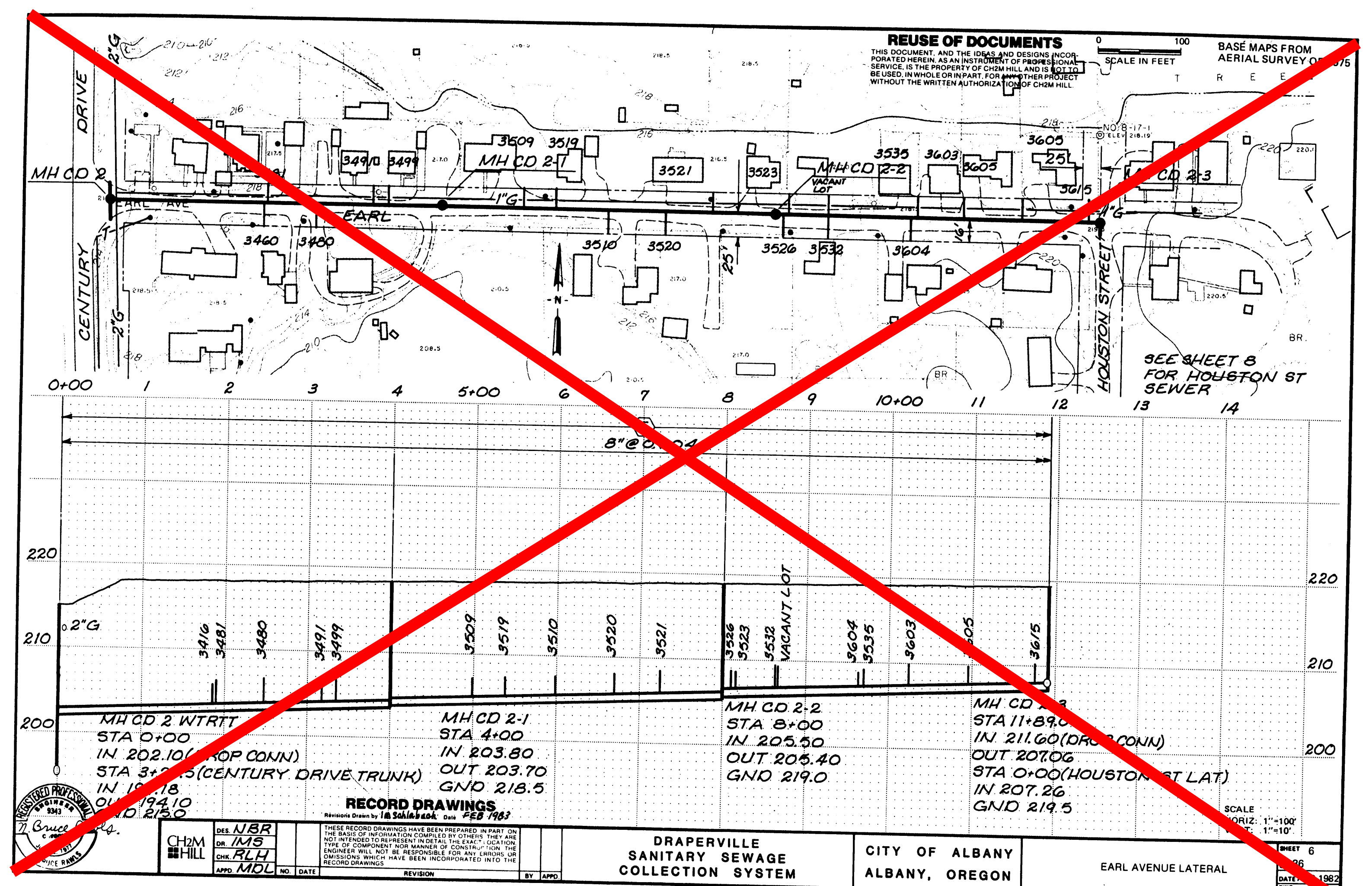
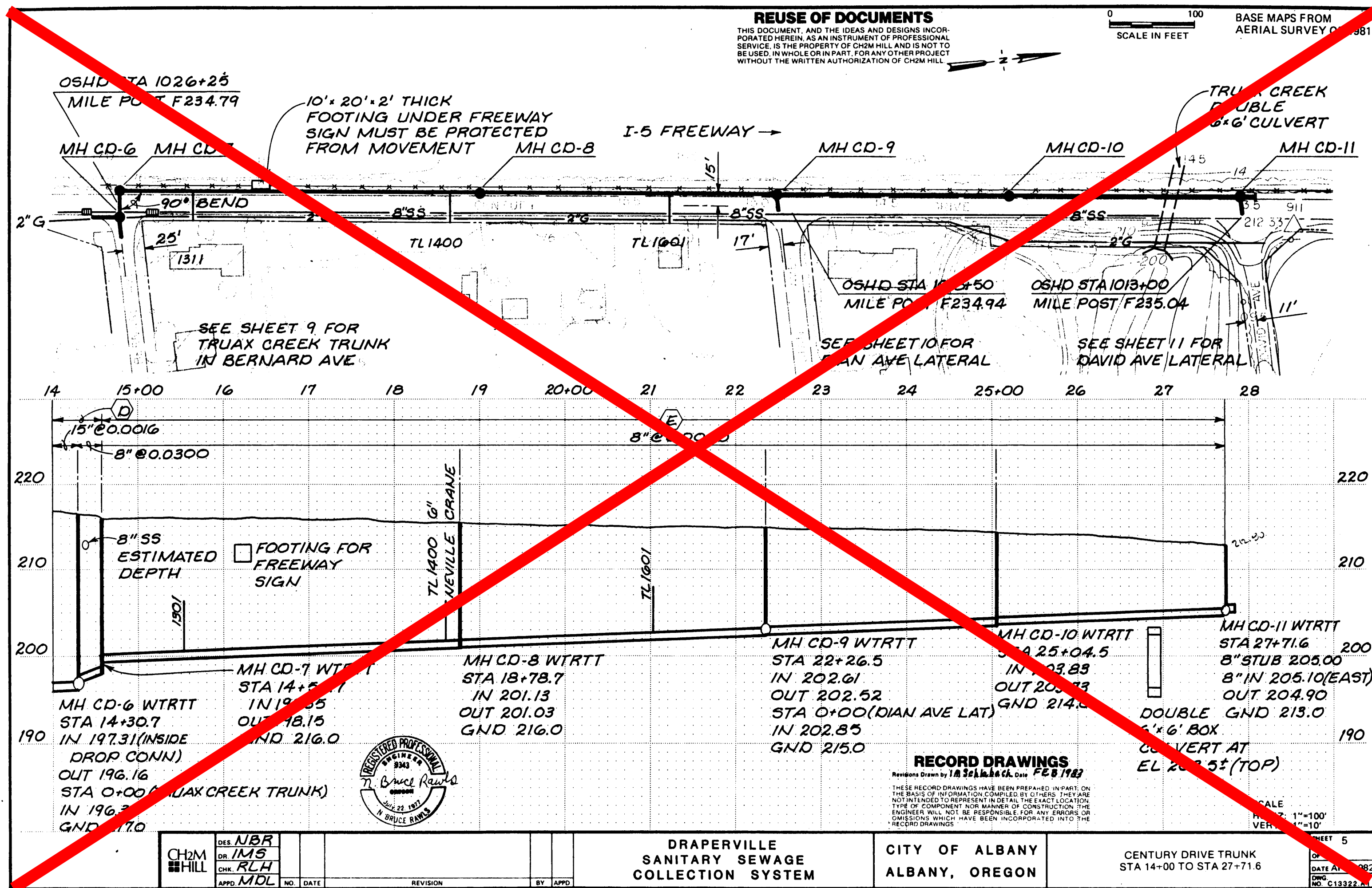
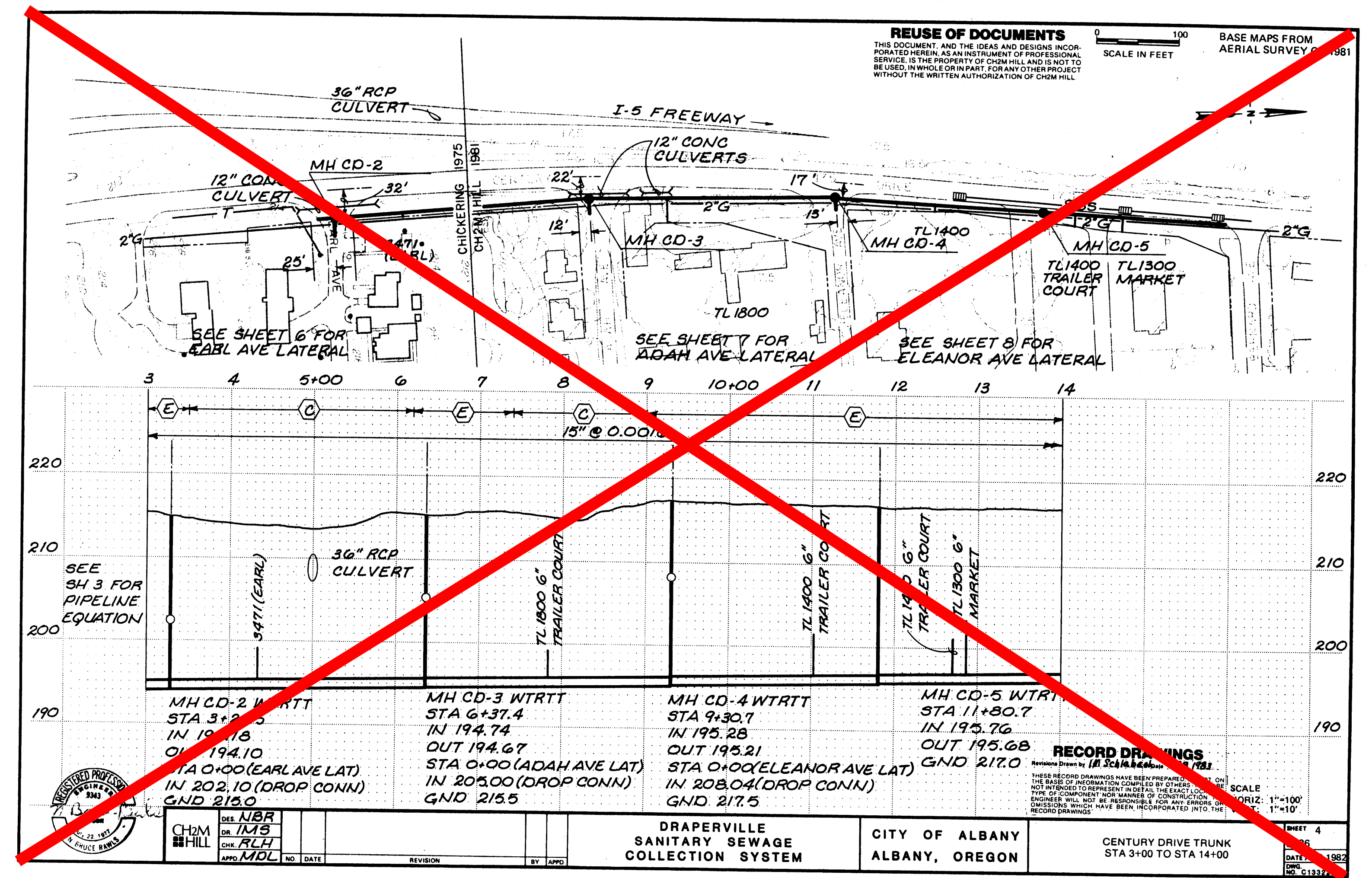
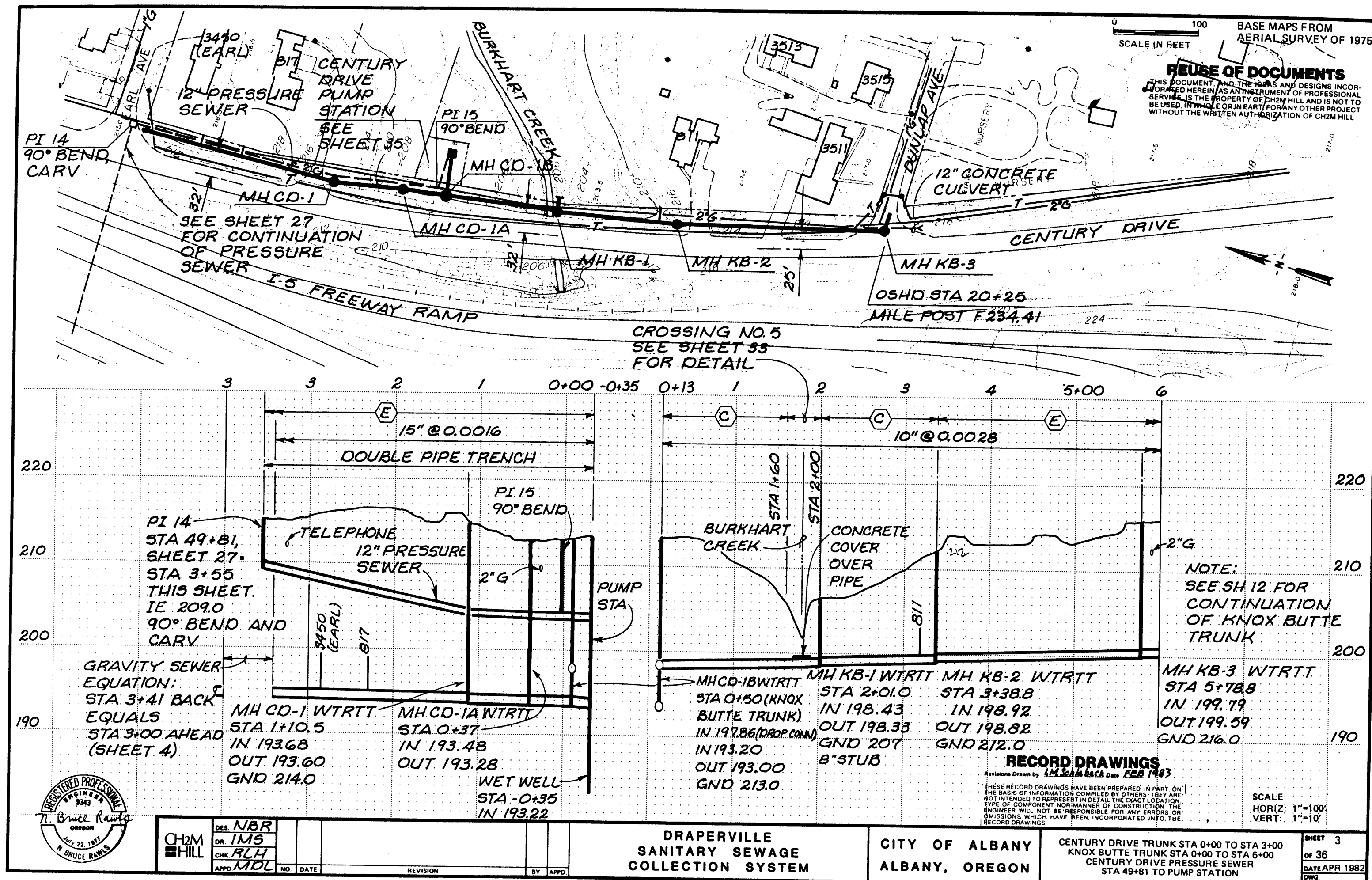
EXPIRATION DATE: 12/31/2014

SHEET NO. 4 OF 6  
PROJECT NO: SS-15-03  
FILE: BASE.DWG

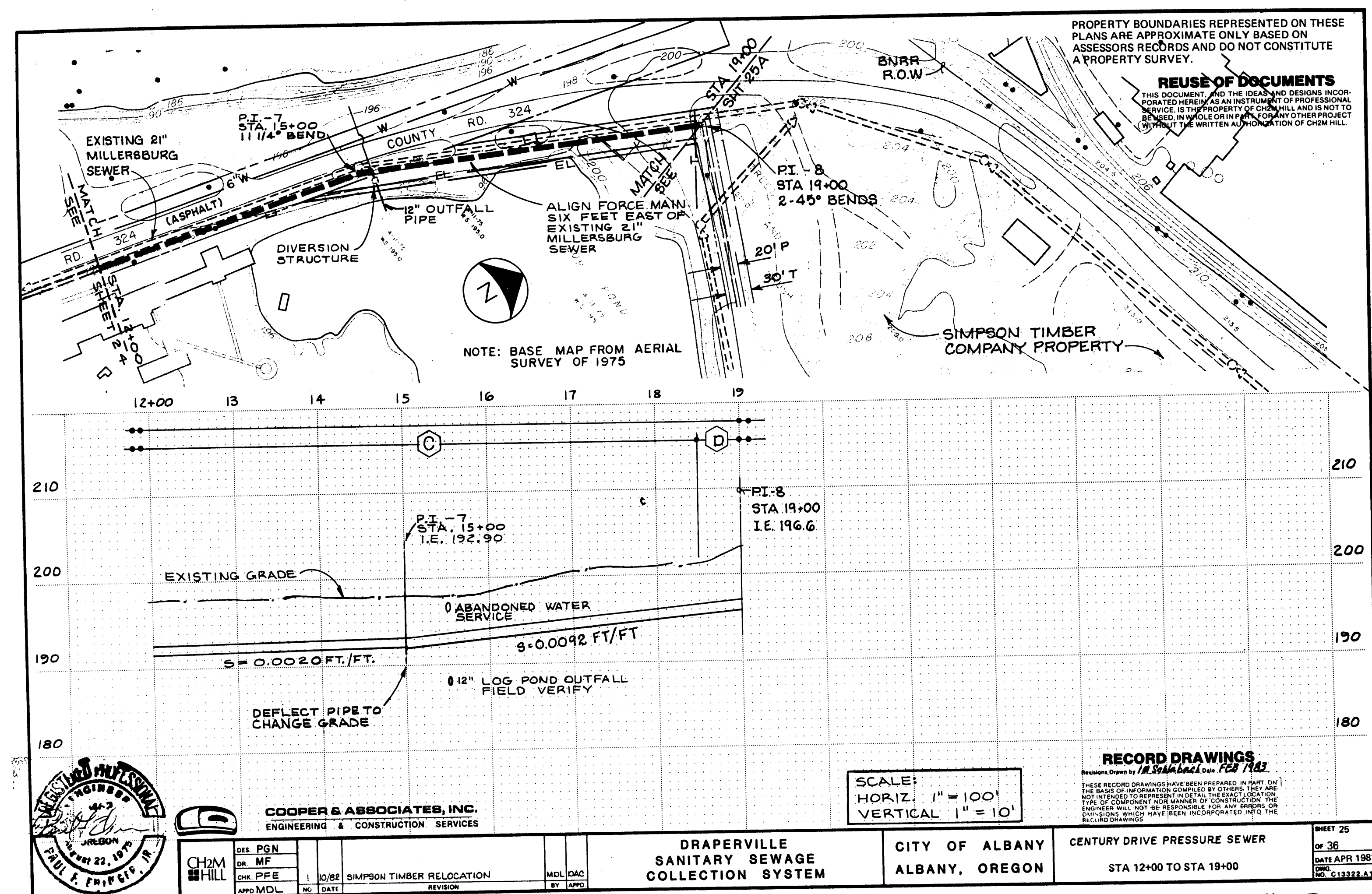
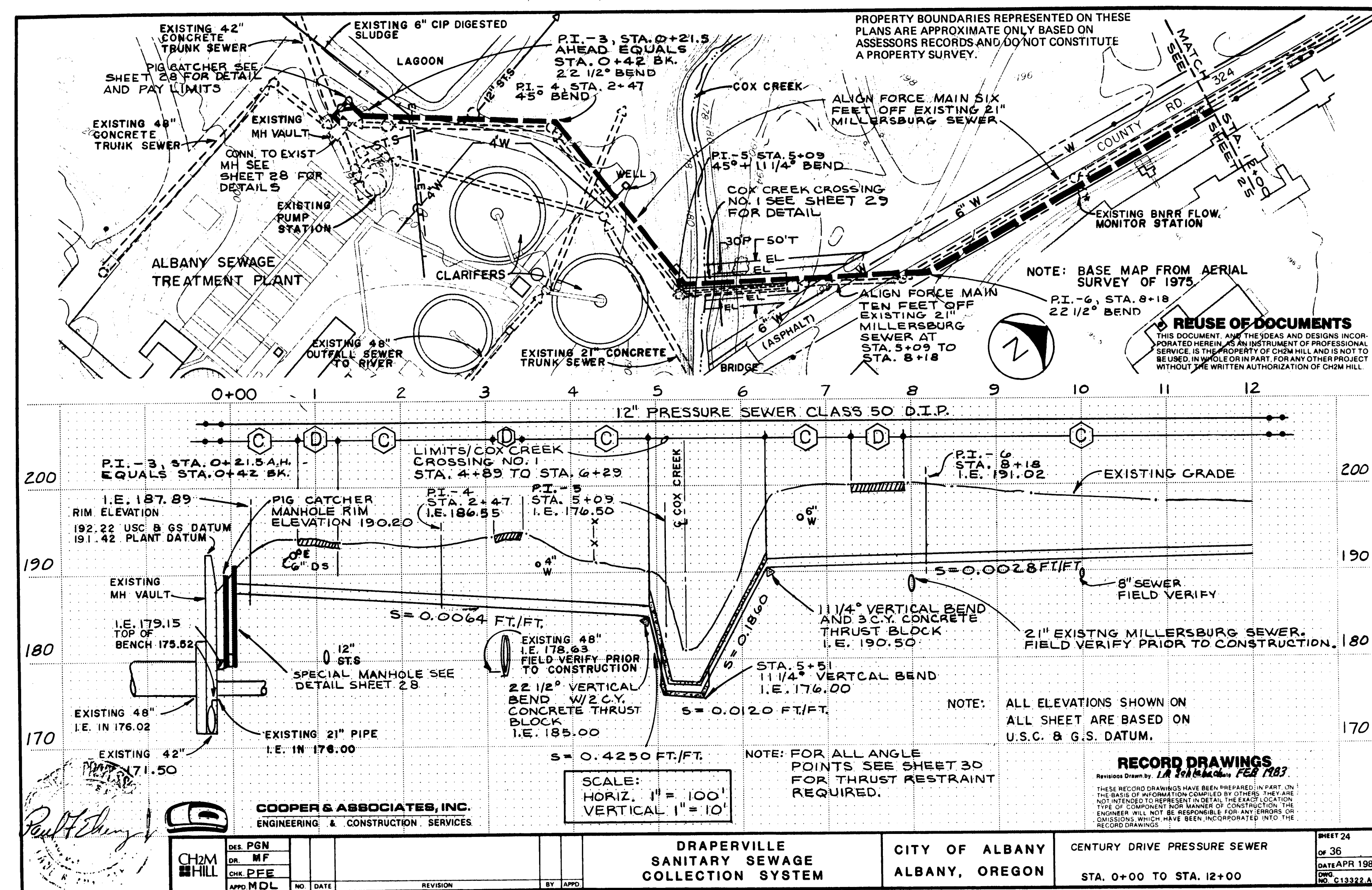
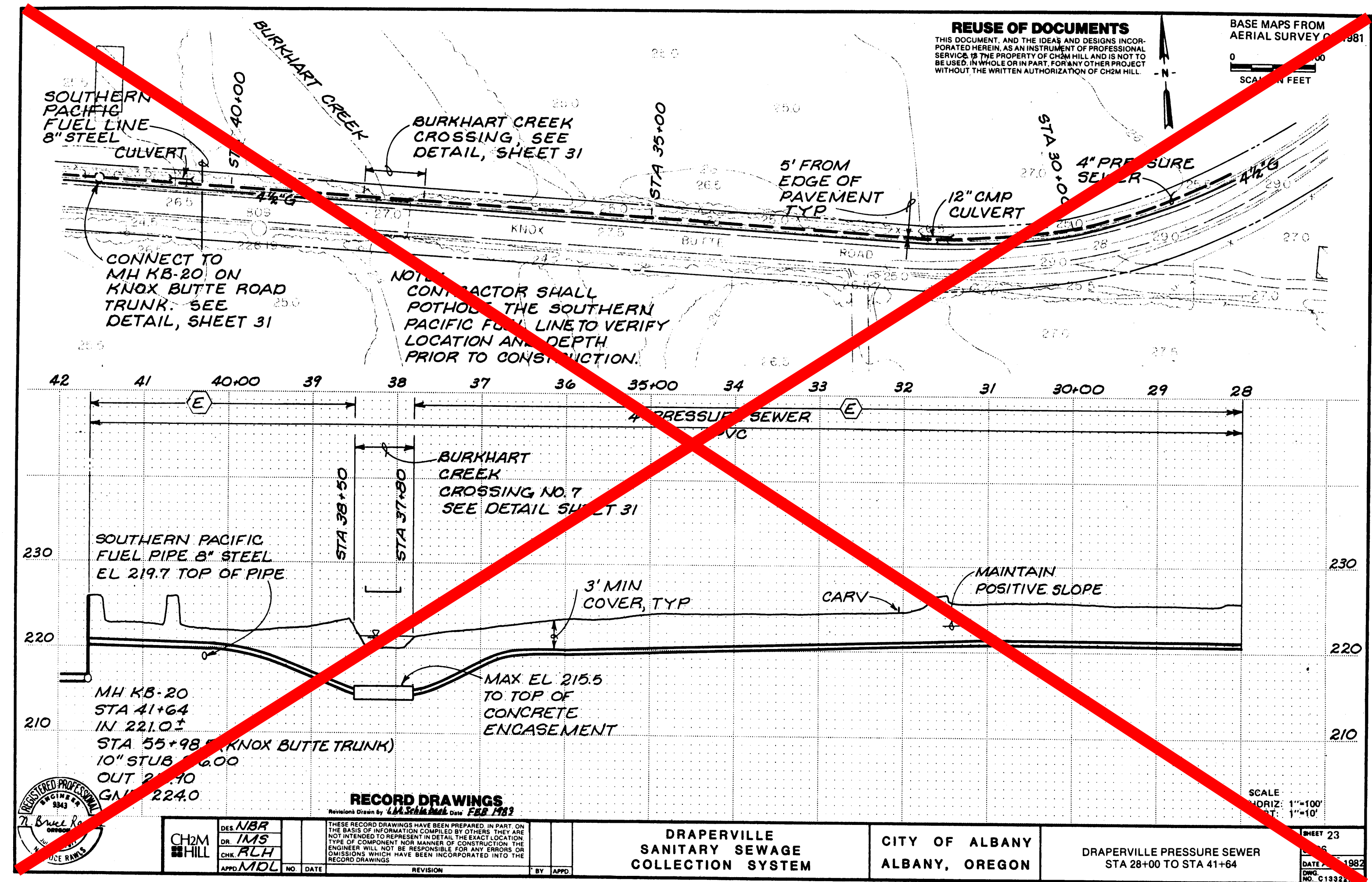
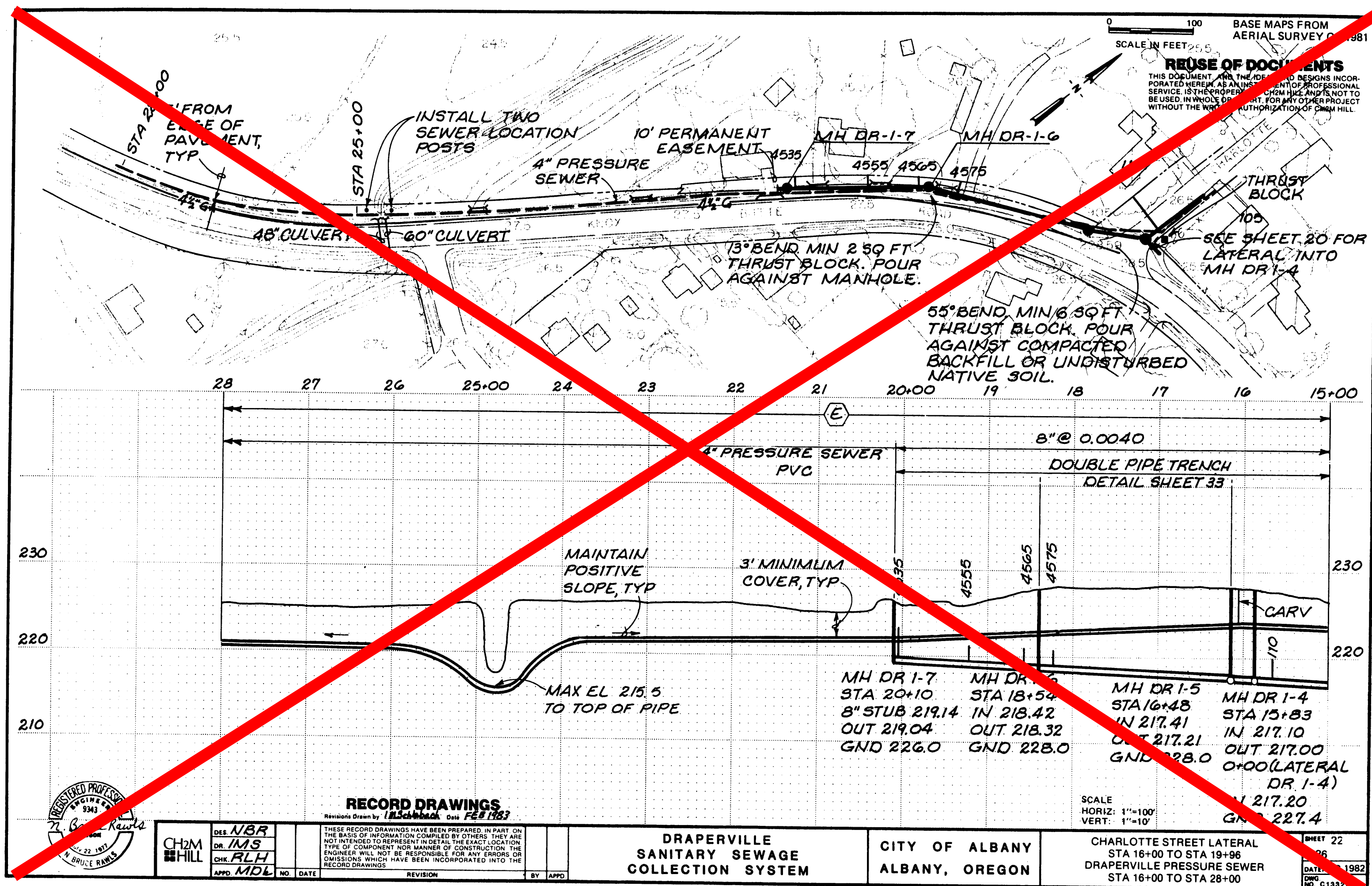






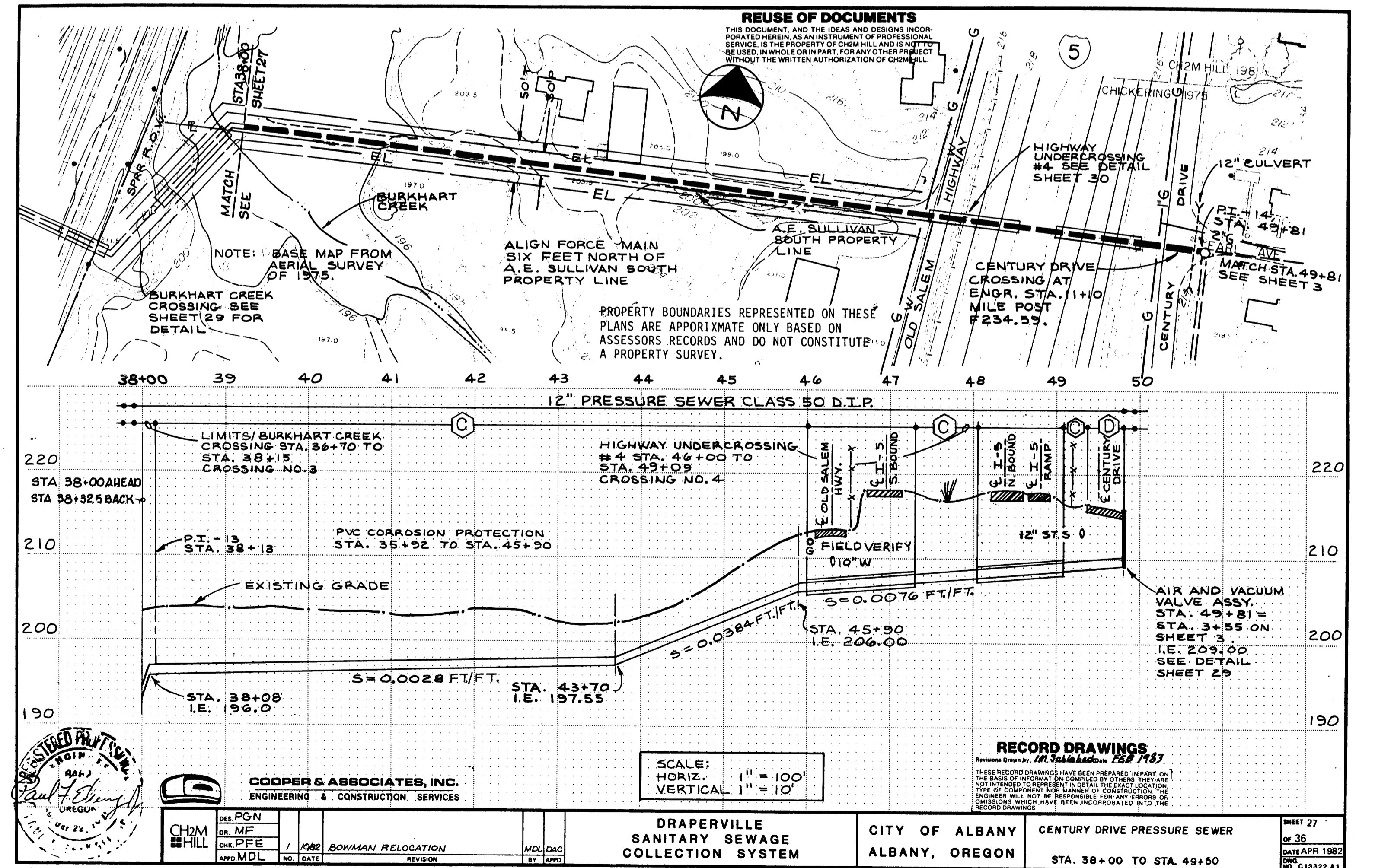
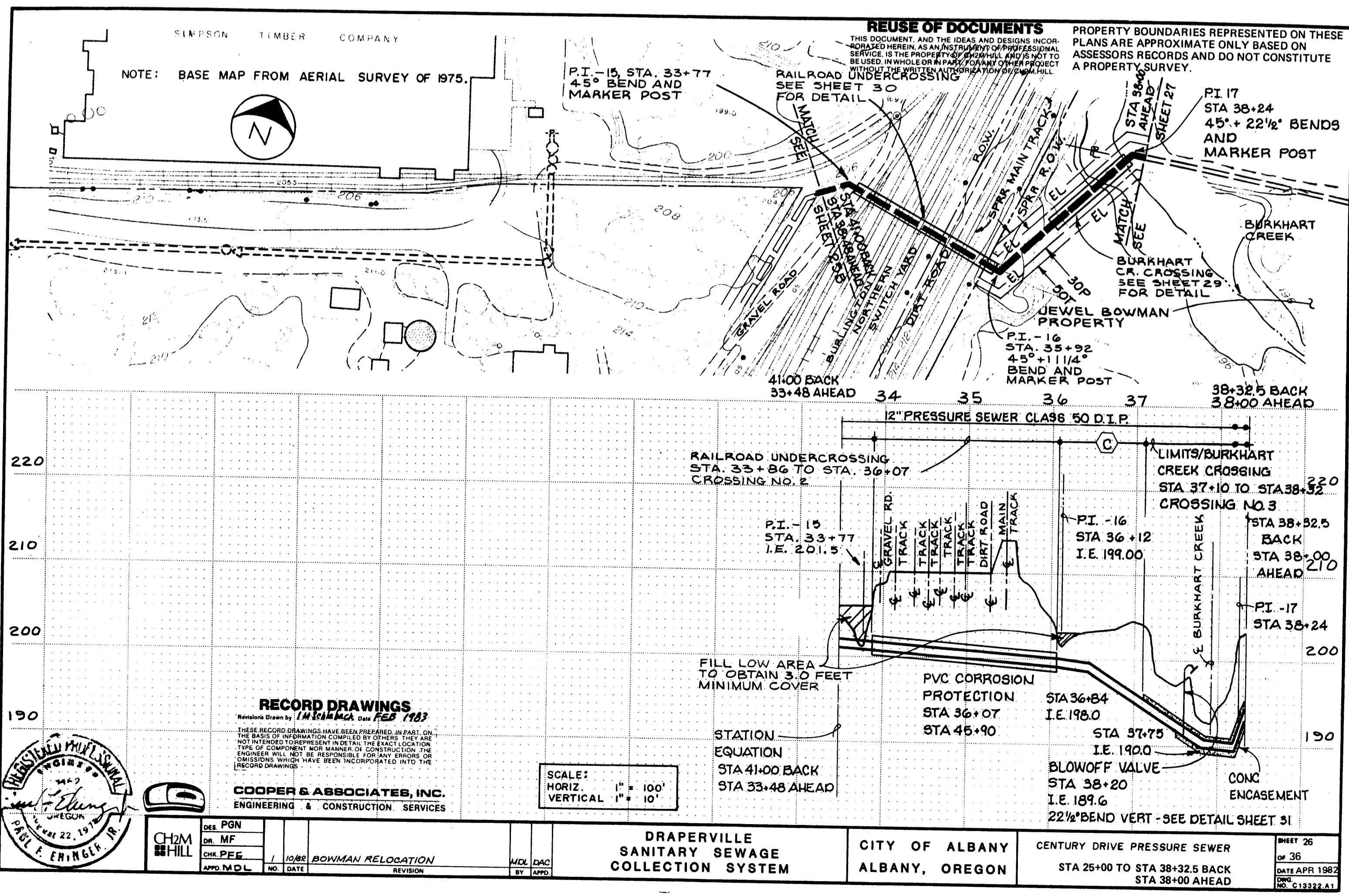
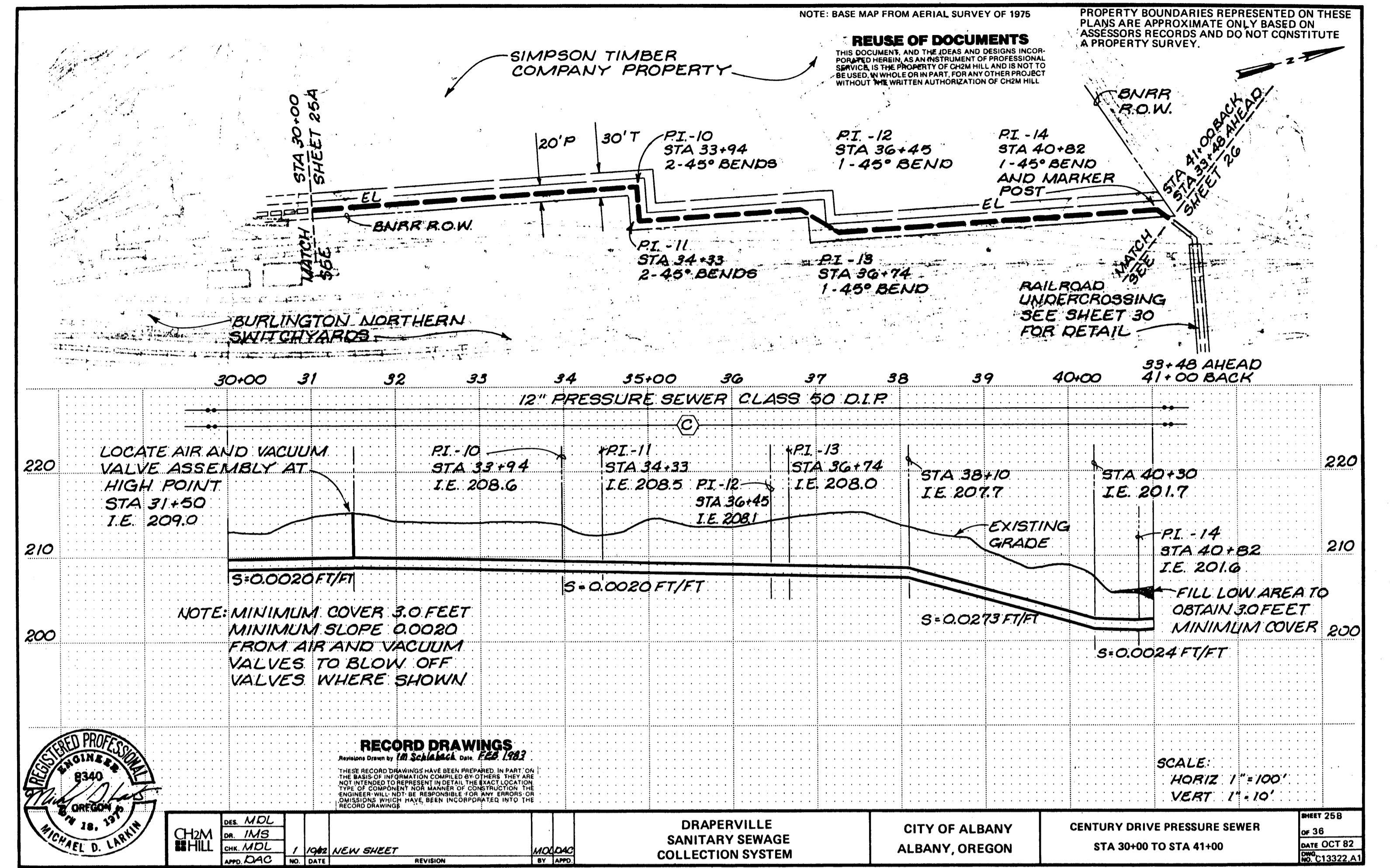
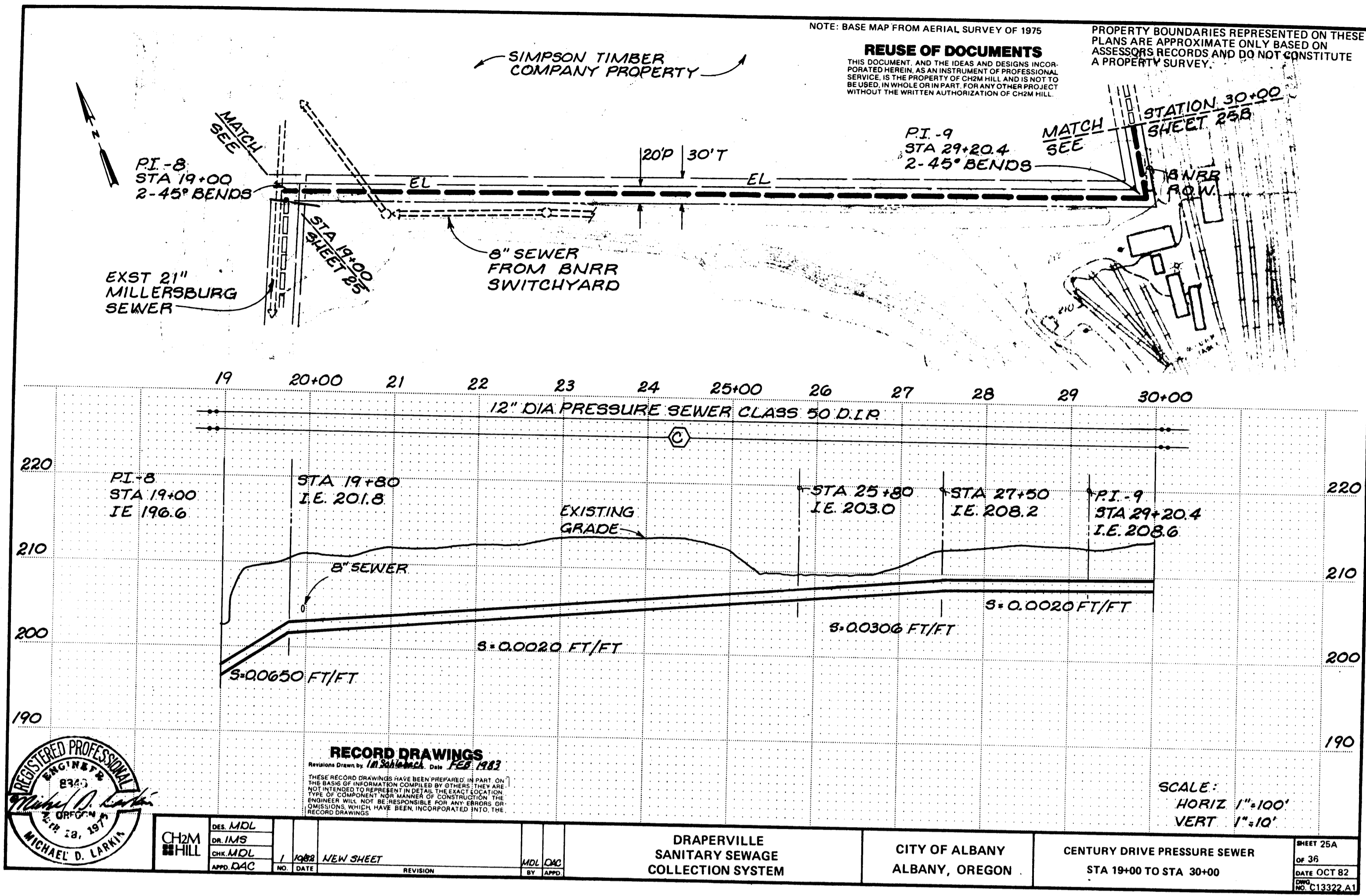






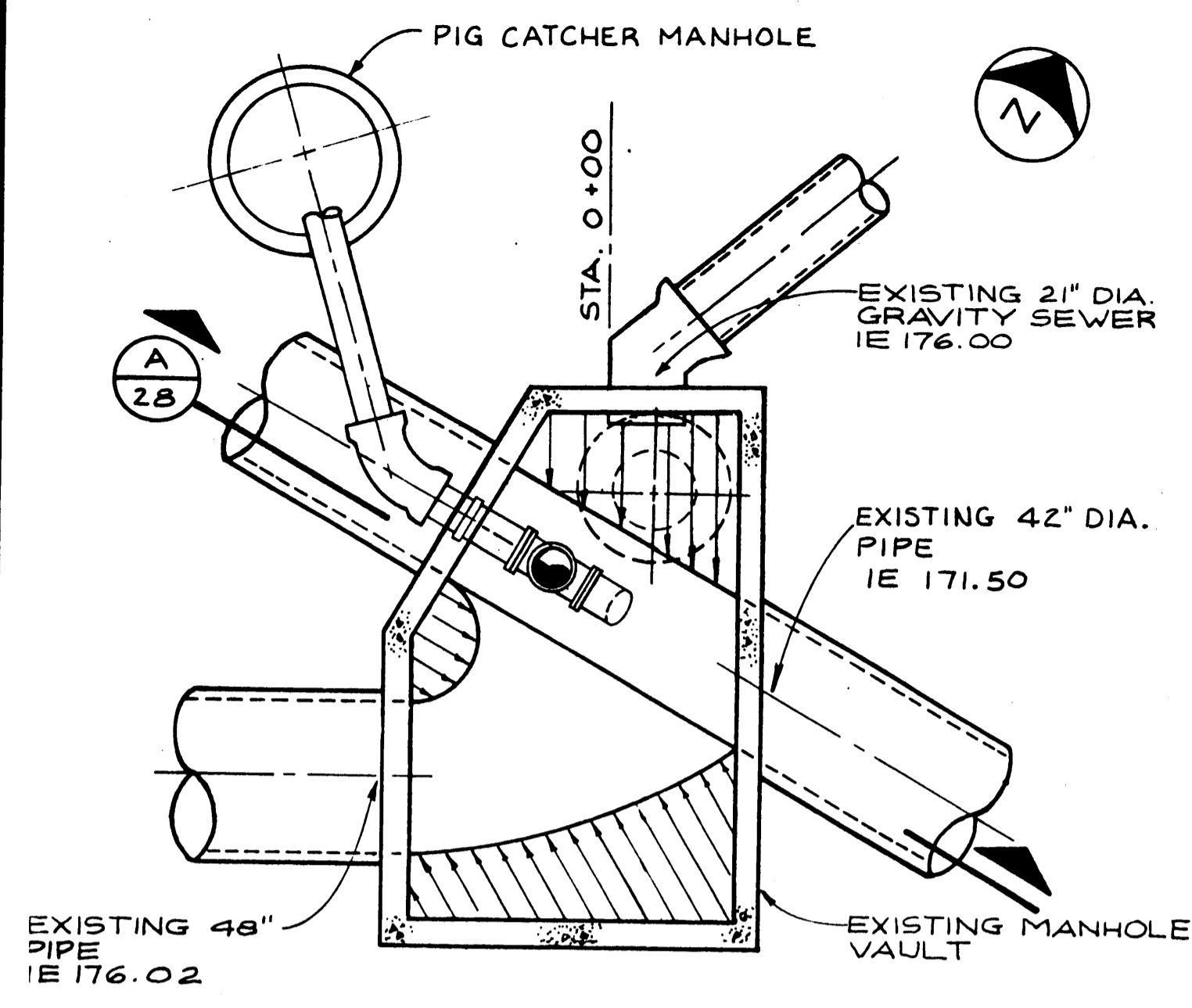
BK132



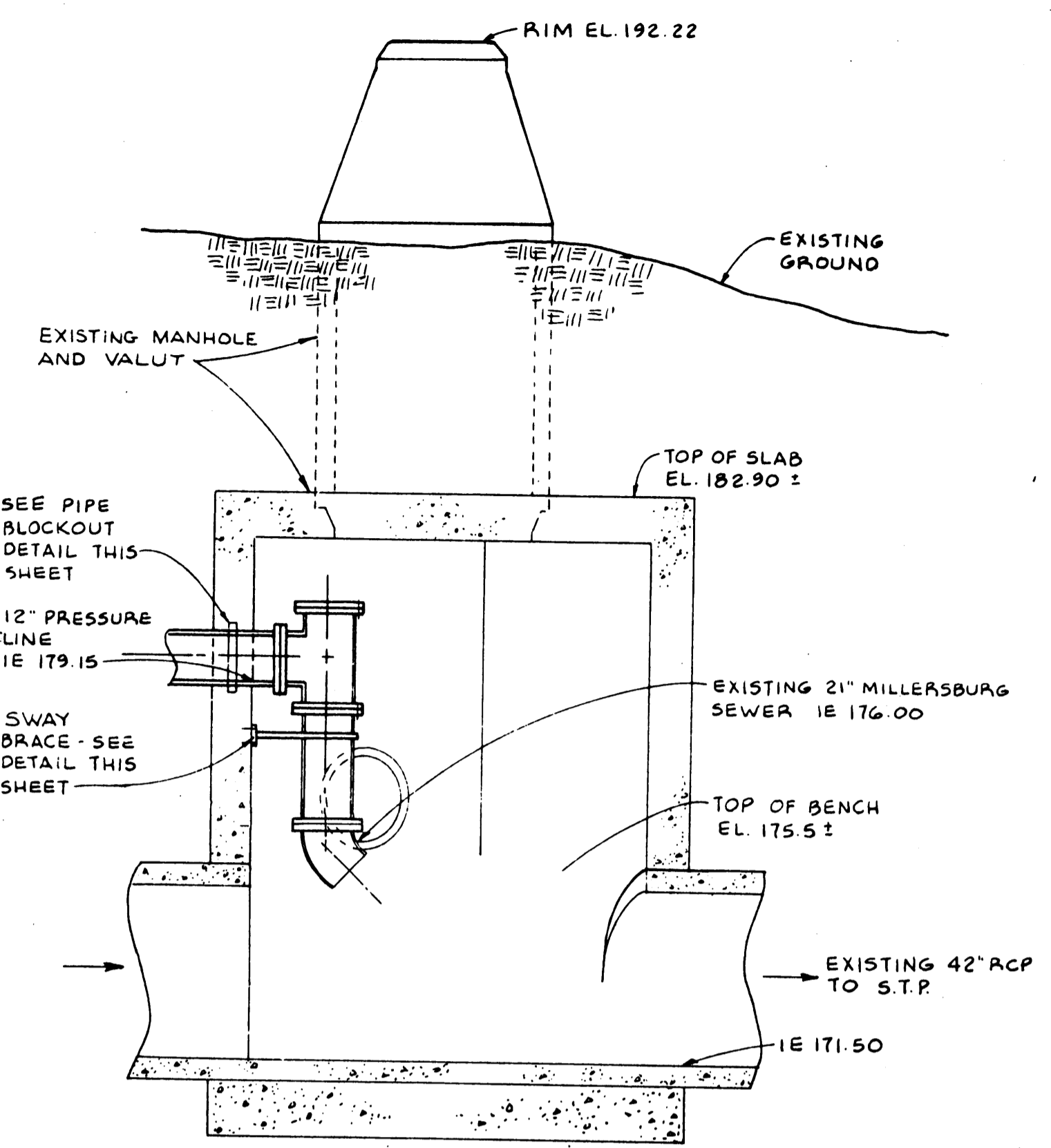




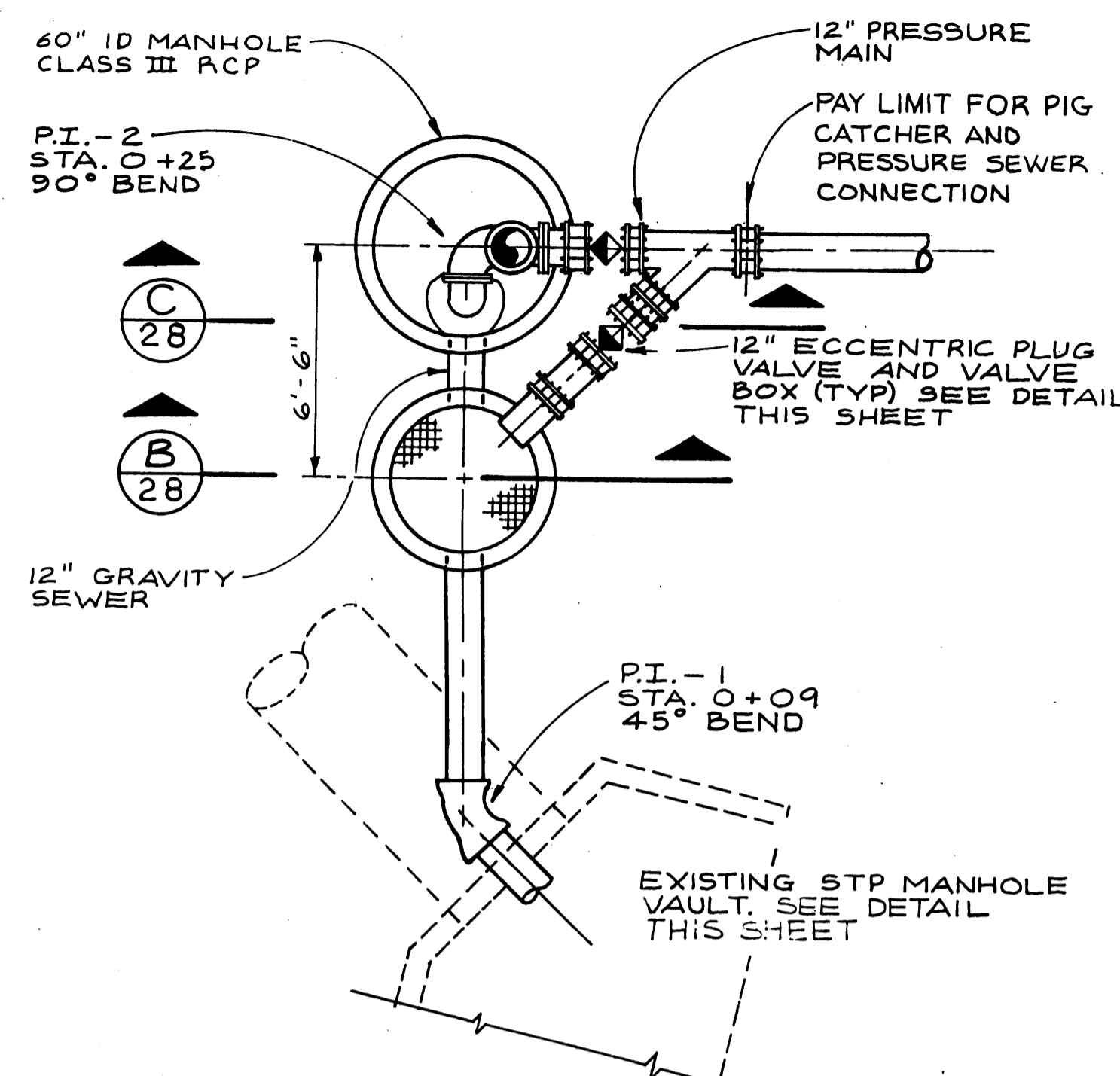
OVERLAY IDENTIFICATION  
 COMPOSITE  
 PROJ. NO.  
 CONTRACT  
 OVERLAY  
 SCREEN  
 FORMAT 38.11.233A.M.C  
 3/11/82



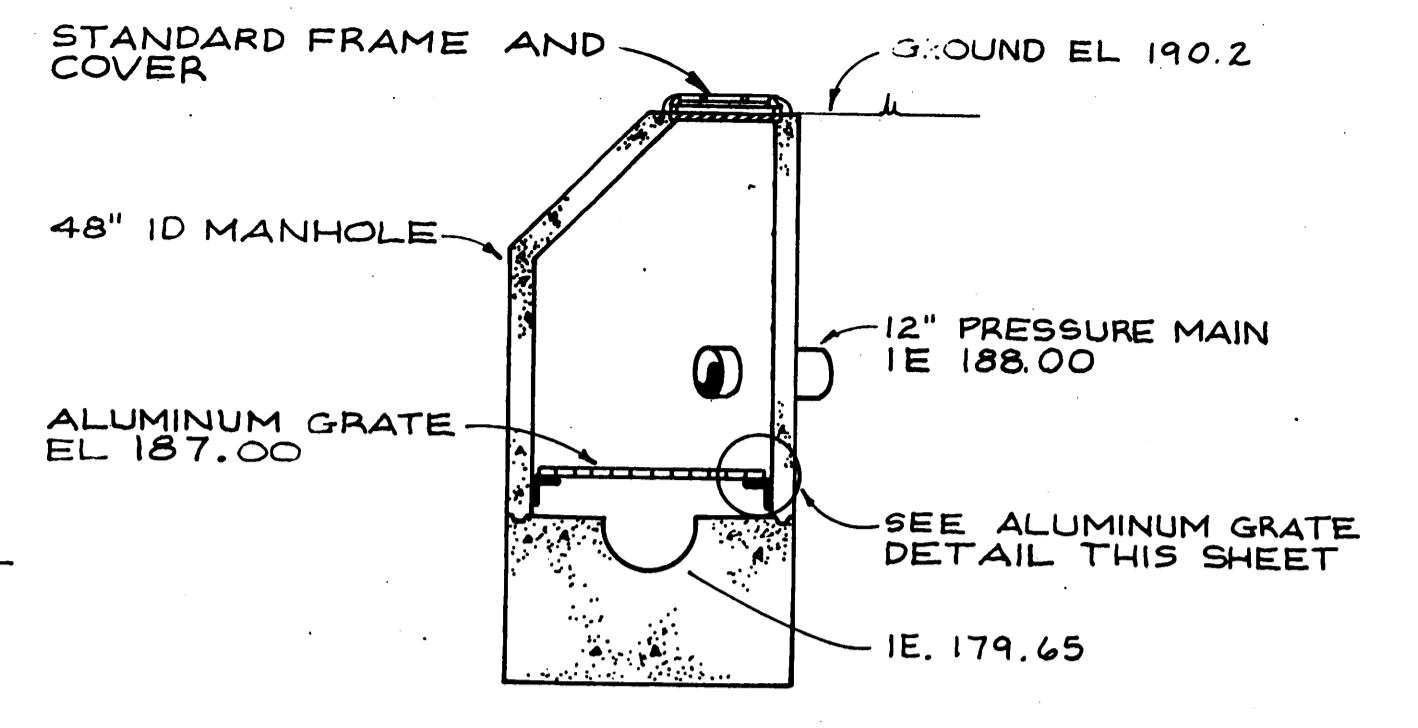
**SECTIONAL PLAN**  
**CONNECTION AT EXISTING**  
**MANHOLE VAULT**  
 SCALE: 1/4" = 1'-0"



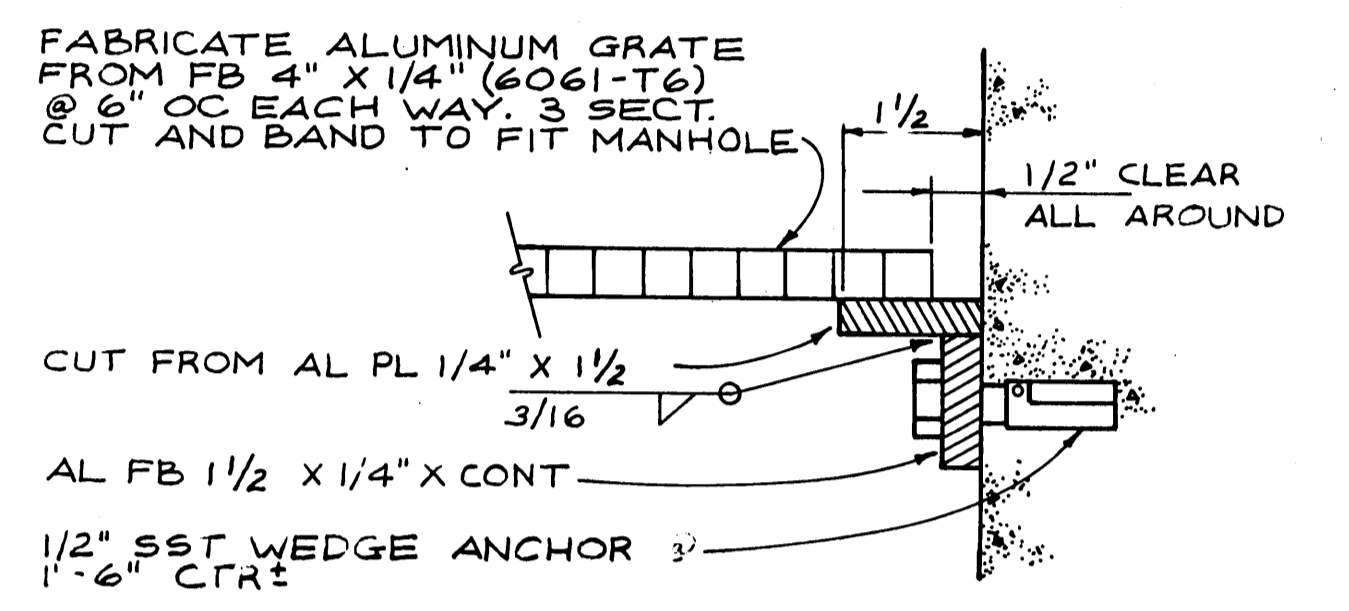
**SECTION**  
 SCALE 3/8" = 1'-0" **A**  
 28



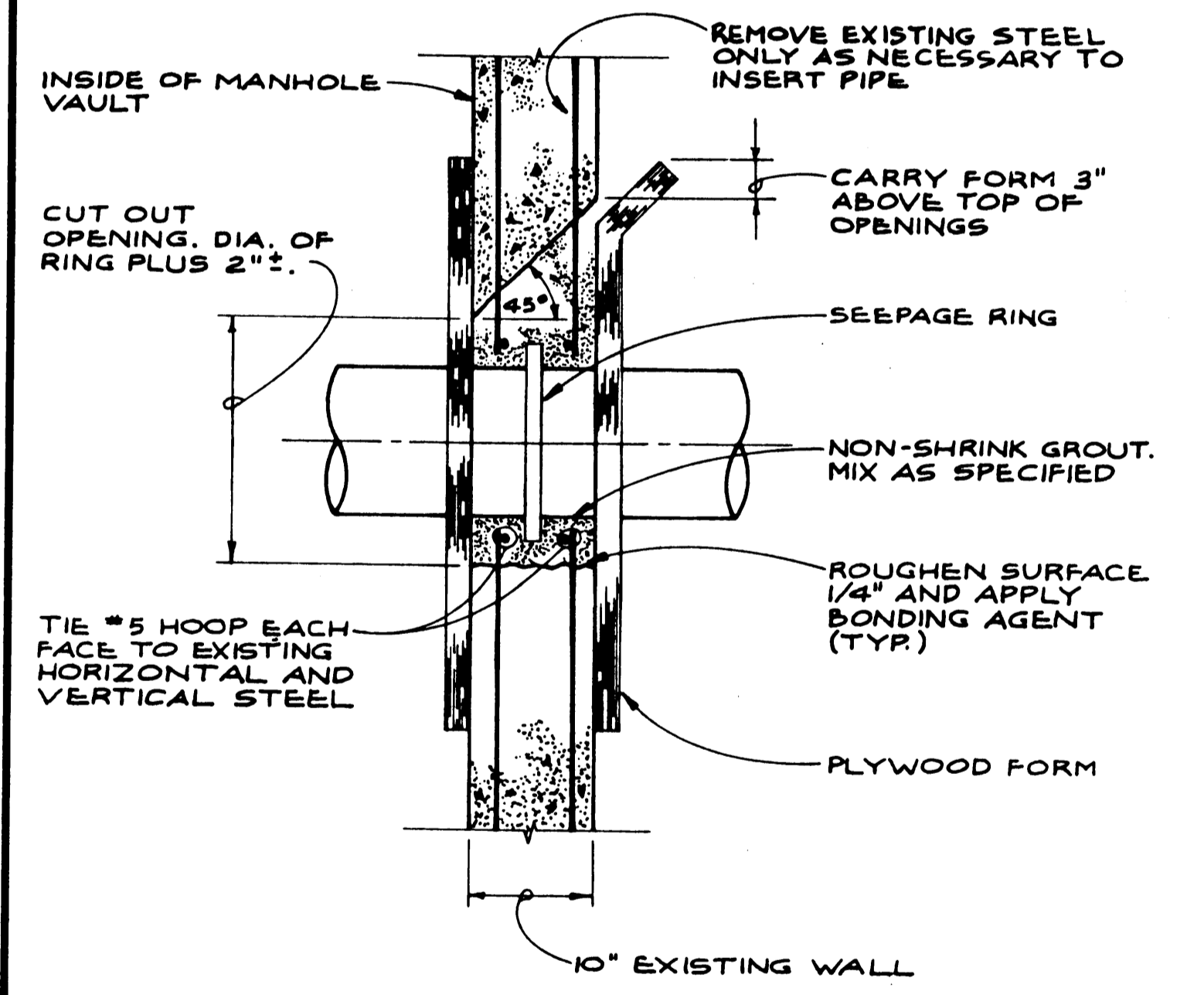
**PIG CATCHER-PLAN**  
 NTS



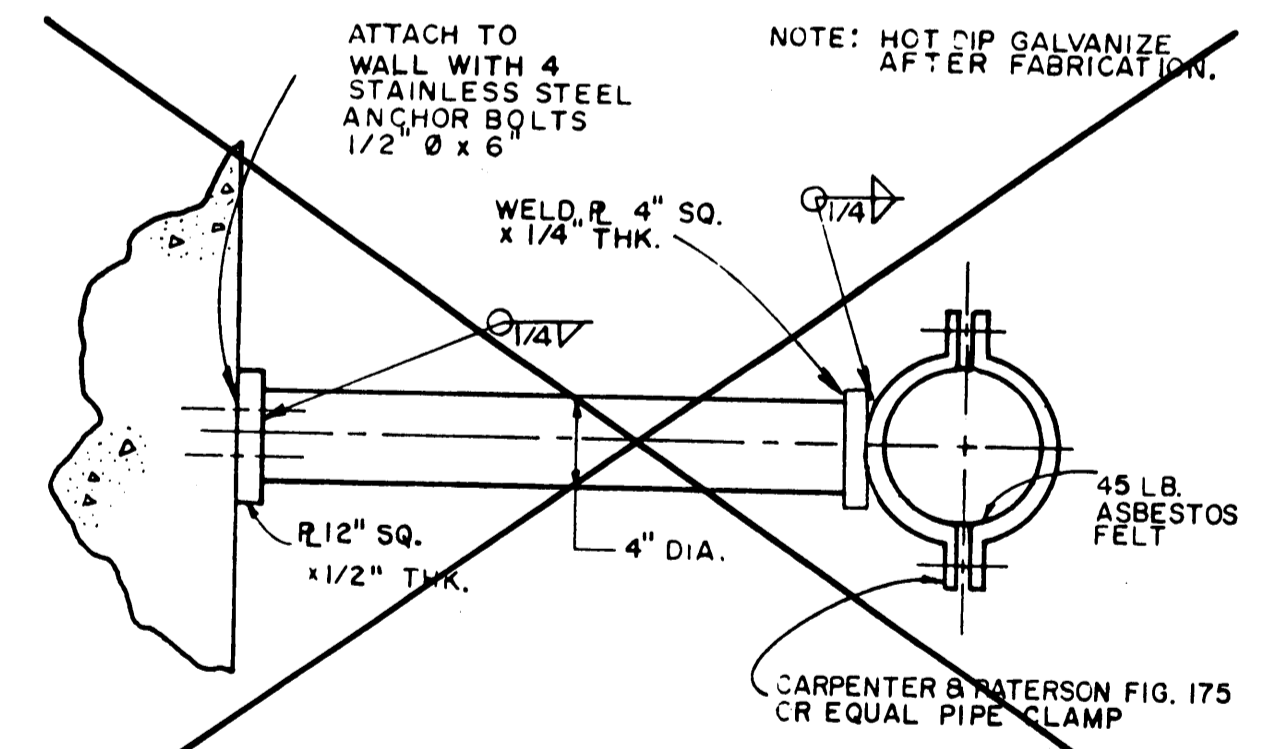
**SECTION**  
 NTS **B**  
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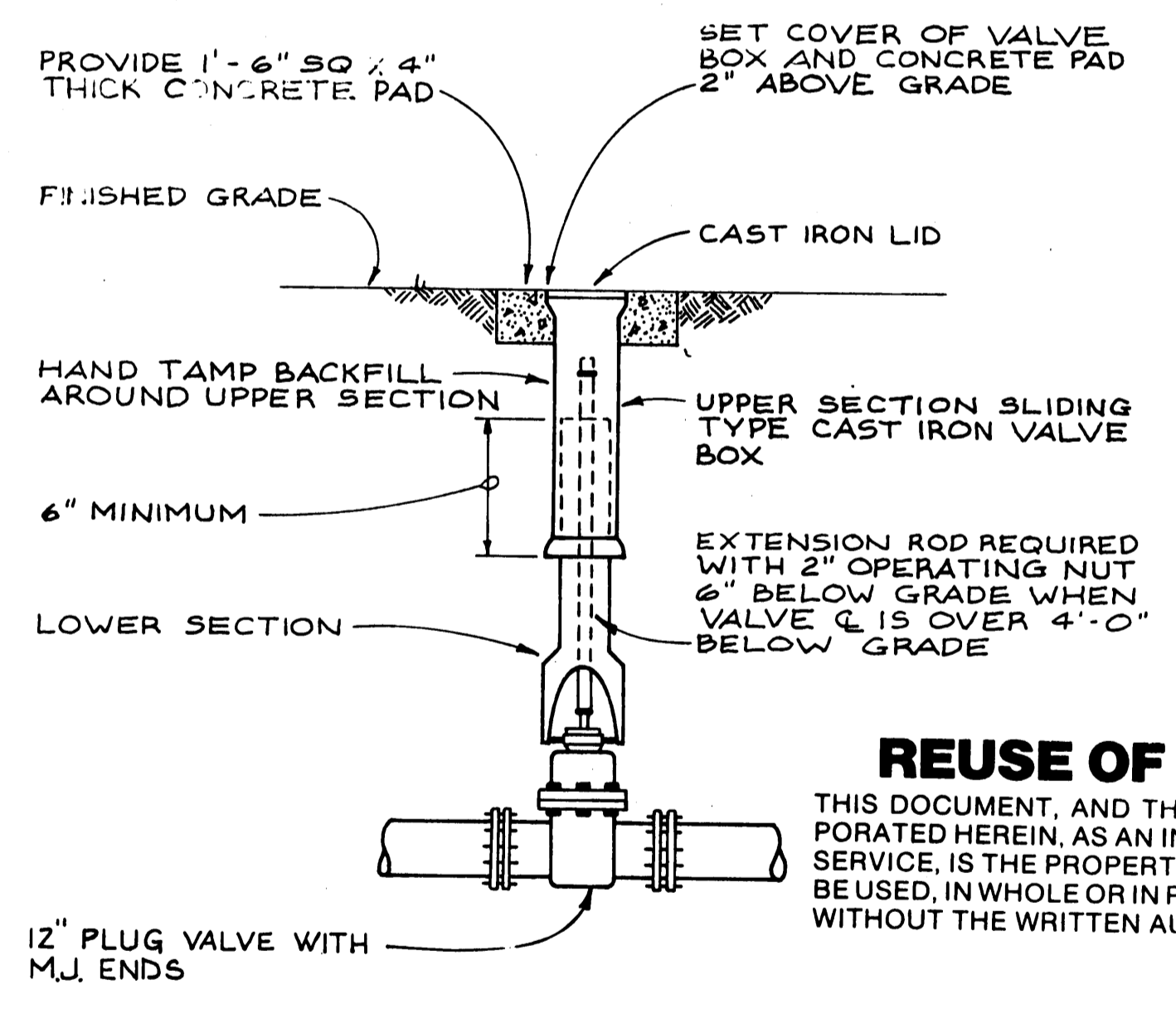
**ALUMINUM GRATE DETAIL**  
 NTS



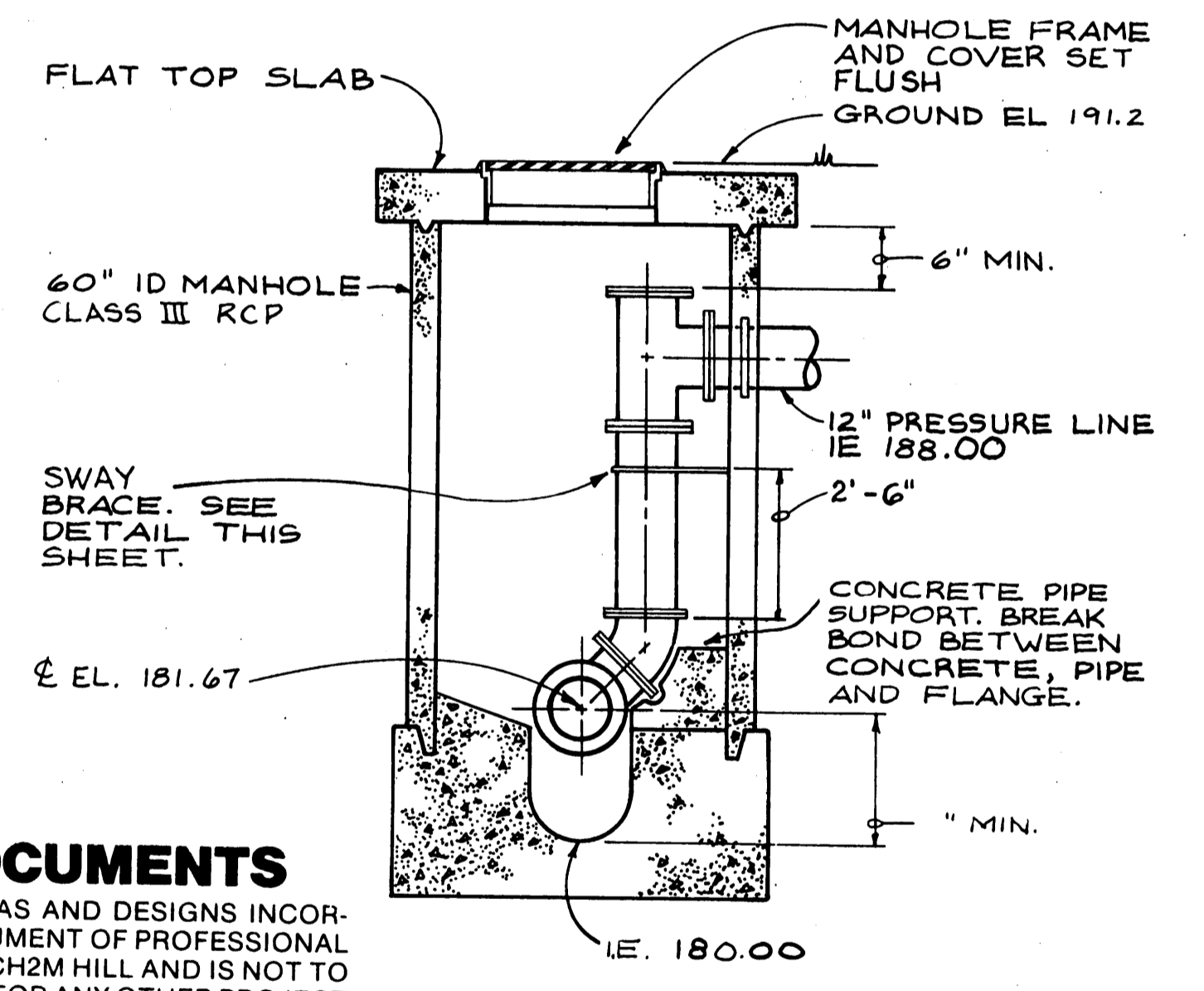
**PIPE BLOCKOUT DETAIL**  
 N.T.S.



**SWAY BRACE DETAIL**  
 N.T.S.



**VALVE AND VALVE BOX**  
**SETTING DETAIL**  
 NTS



**SECTION**  
 NTS **C**  
 28

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 Revisions Drawn by LM SCHLABACH Date FEB 1983

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**COOPER & ASSOCIATES, INC.**  
 ENGINEERING & CONSTRUCTION SERVICES

	DSGN	P. NEWTON					
	DR	MSF/J.P.					
	CHK	P. EHINGER					
	APVD	M.D. LARKIN	NO.	DATE	REVISION	BY	APVD

**DRAPERVILLE**  
**SANITARY SEWAGE**  
**COLLECTION SYSTEM**

**VERIFY SCALES**  
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**CITY OF ALBANY**  
**ALBANY, OREGON**

**CENTURY DRIVE PRESSURE SEWER**  
**DETAILS**  
**SEWAGE TREATMENT PLANT CONNECTION**

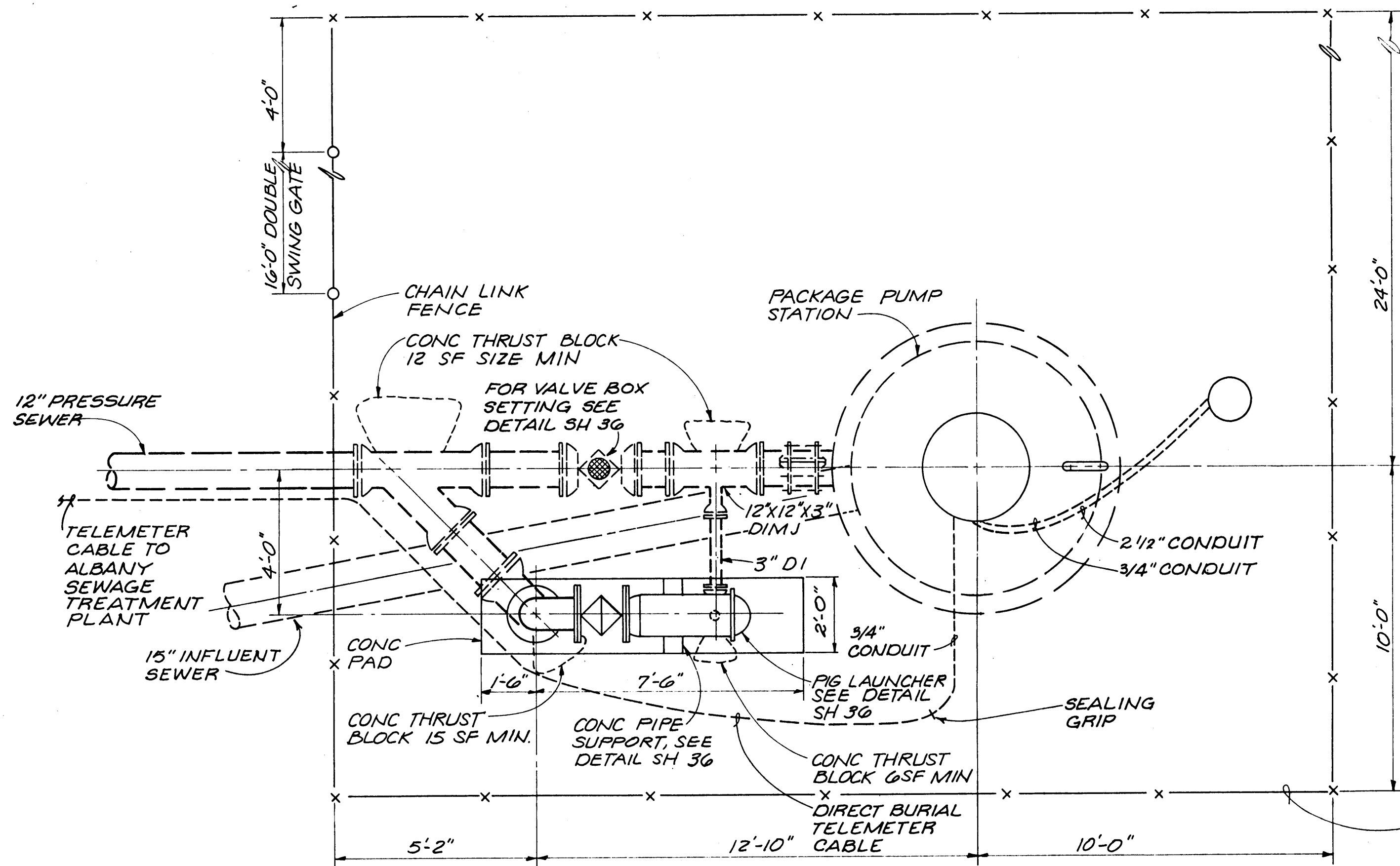
SHEET	28
	36
DATE	APRIL 1982
PROJ. NO.	C13322.A1



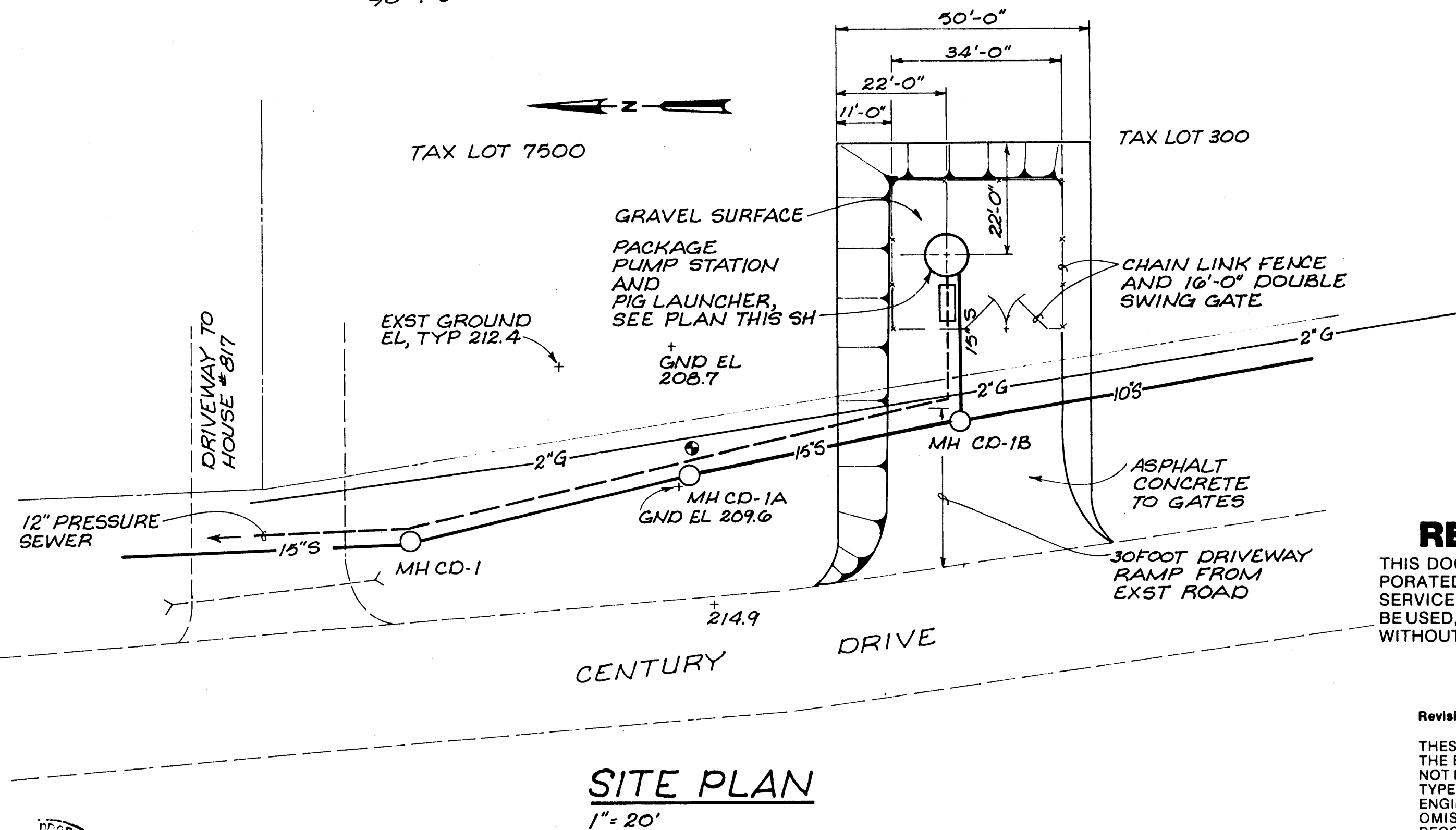




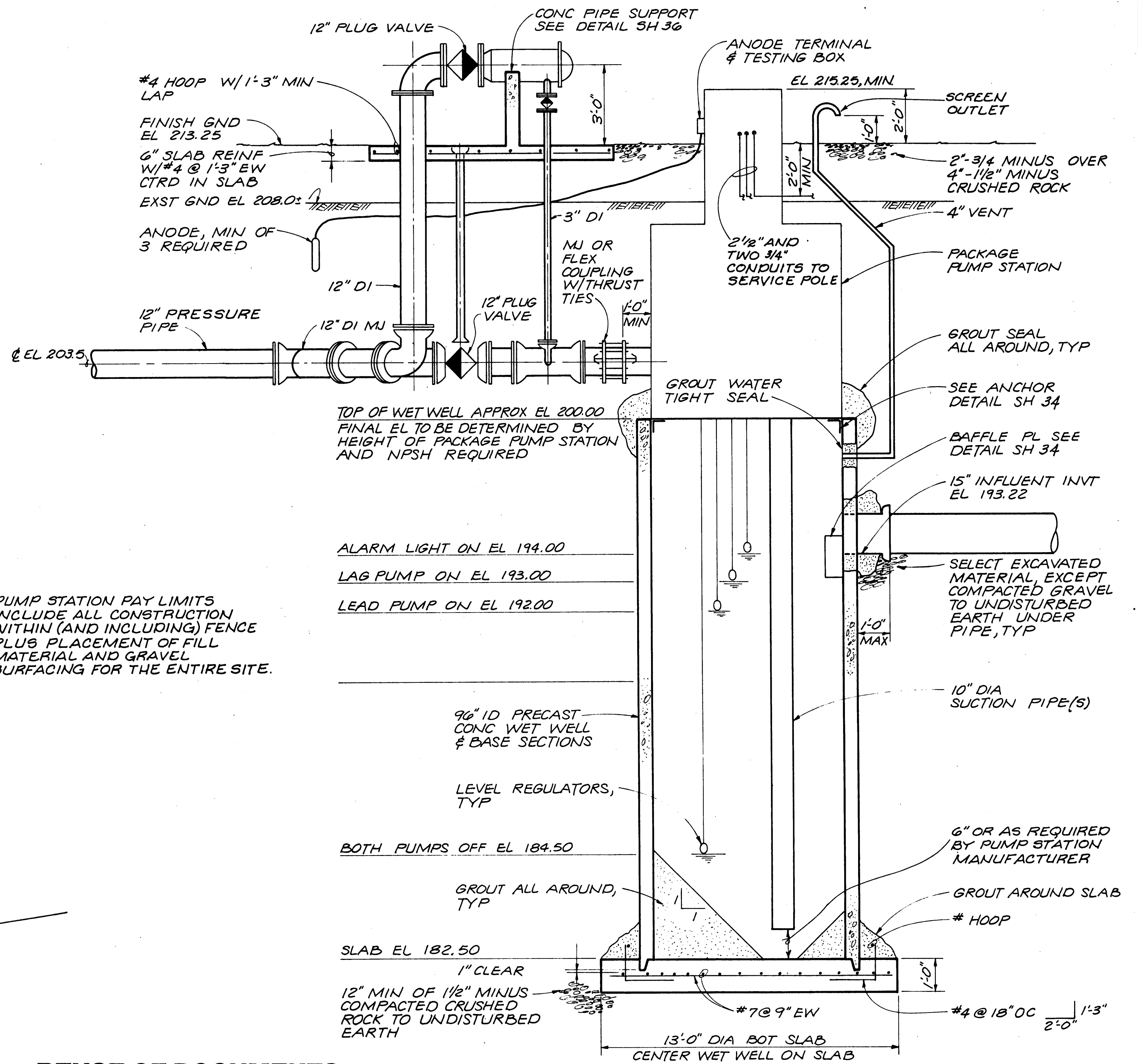




**CENTURY DRIVE PUMP STATION - PLAN**  
3/8" = 1'-0"



**SITE PLAN**  
1" = 20'



**CENTURY DRIVE PUMP STATION  
COMPOSITE SECTION**  
NTS

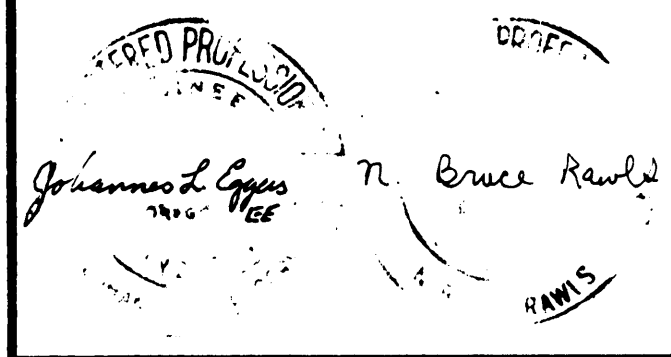
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NOTE:  
PLACE FIRST SECTION OF WET WELL AND POUR BASE SLAB AROUND IT.



	DSGN	N.B. RAWLS					
	DR	LM SCHLABACH					
	CHK	RL HUMPHREY					
	APVD	M.D. LARKIN					
	NO.	DATE	REVISION	BY	APVD		

DRAPERVILLE  
SANITARY SEWAGE  
COLLECTION SYSTEM

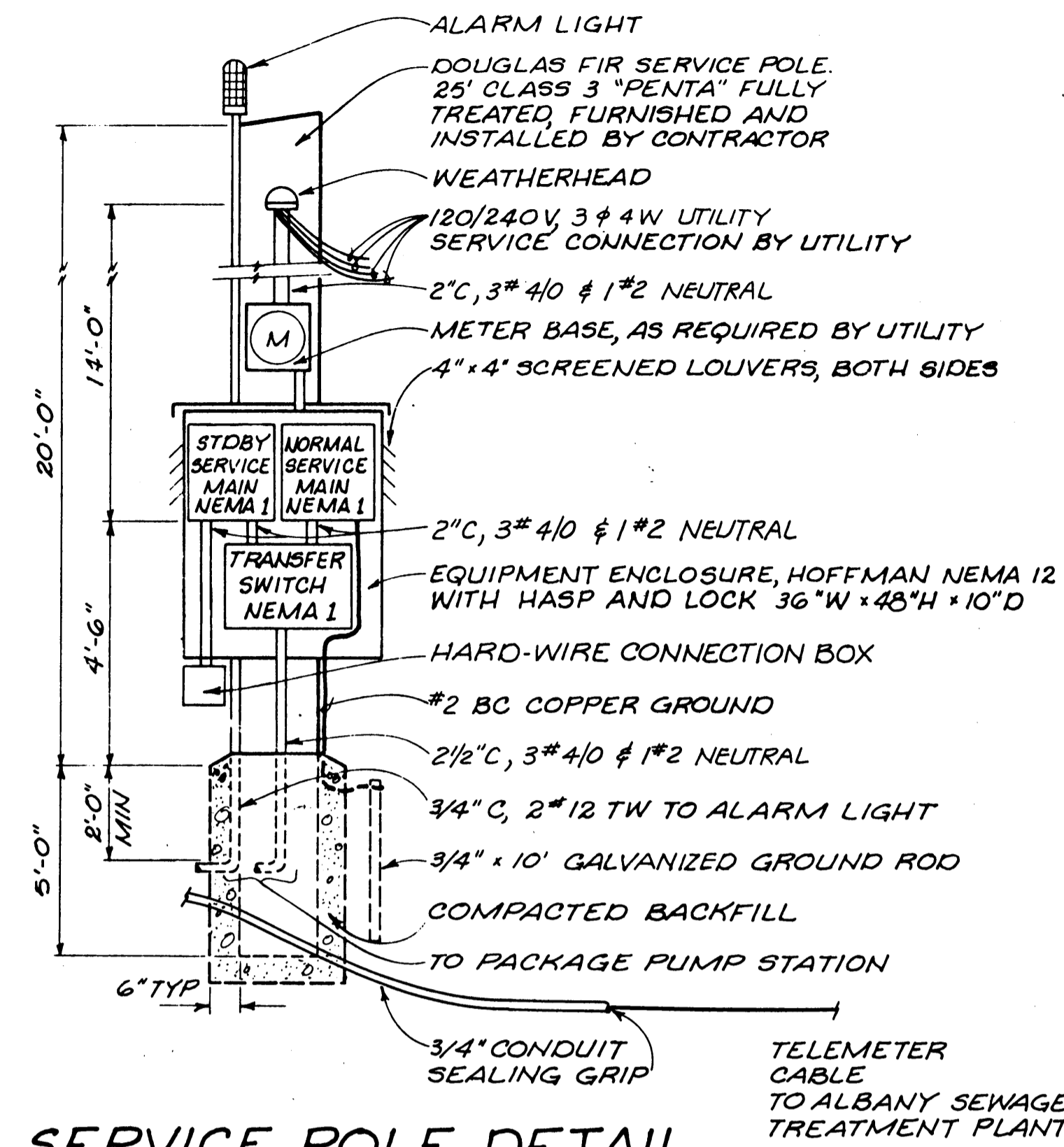
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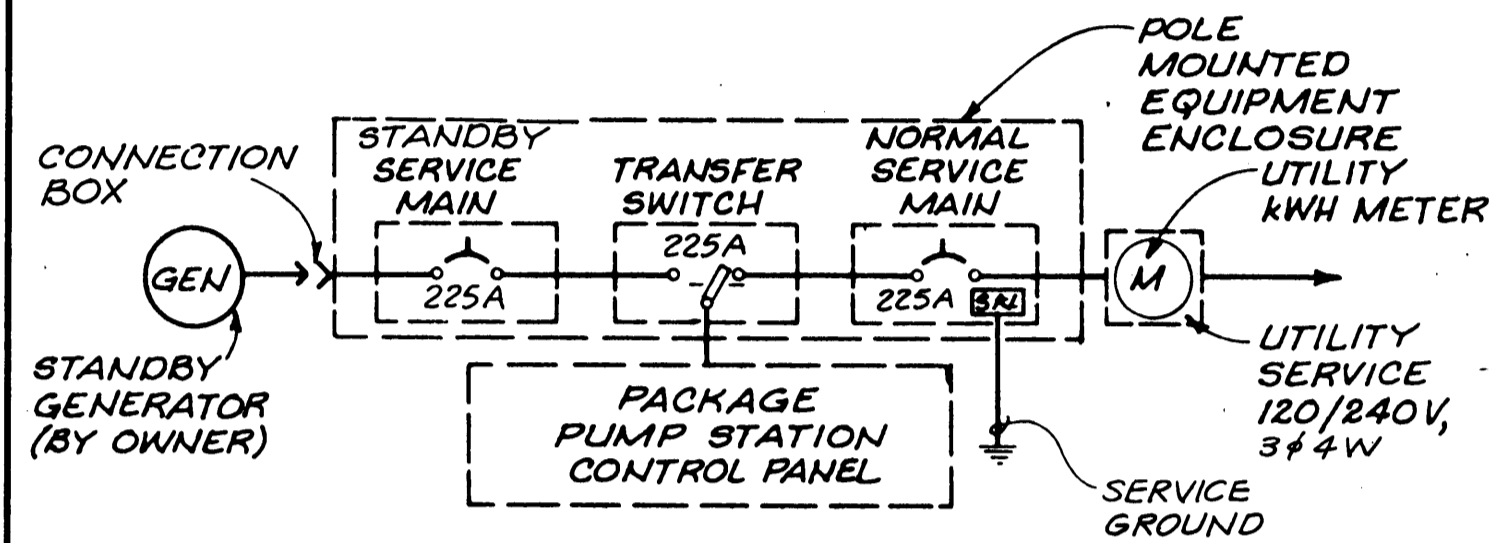
CITY OF ALBANY  
ALBANY, OREGON

CENTURY DRIVE PUMP STATION, LAYOUT

SHEET	35
	36
DATE	APRIL 1982
PROJ NO.	C13322.A1



**SERVICE POLE DETAIL**  
NTS



**ONE-LINE DIAGRAM**  
NTS

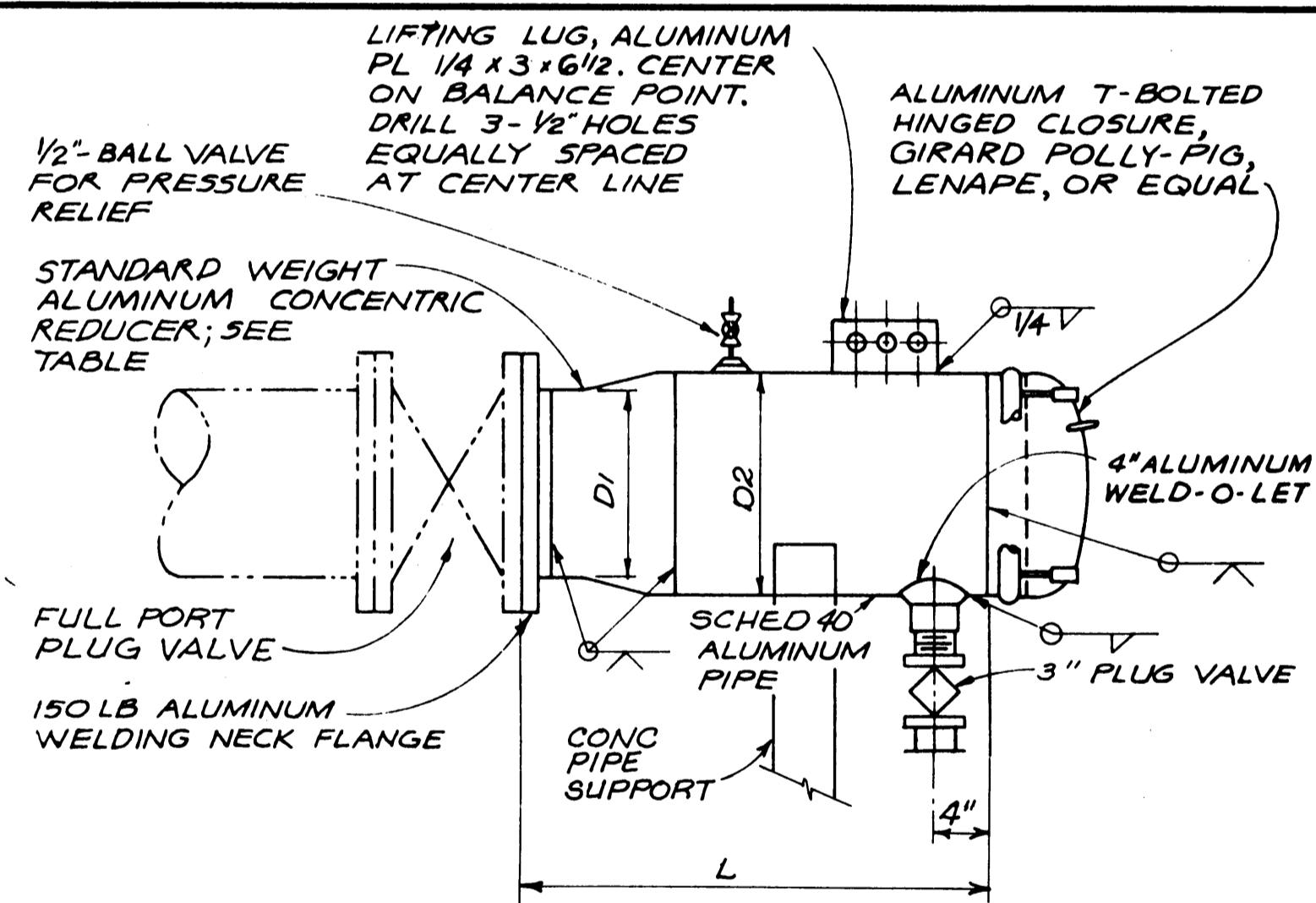
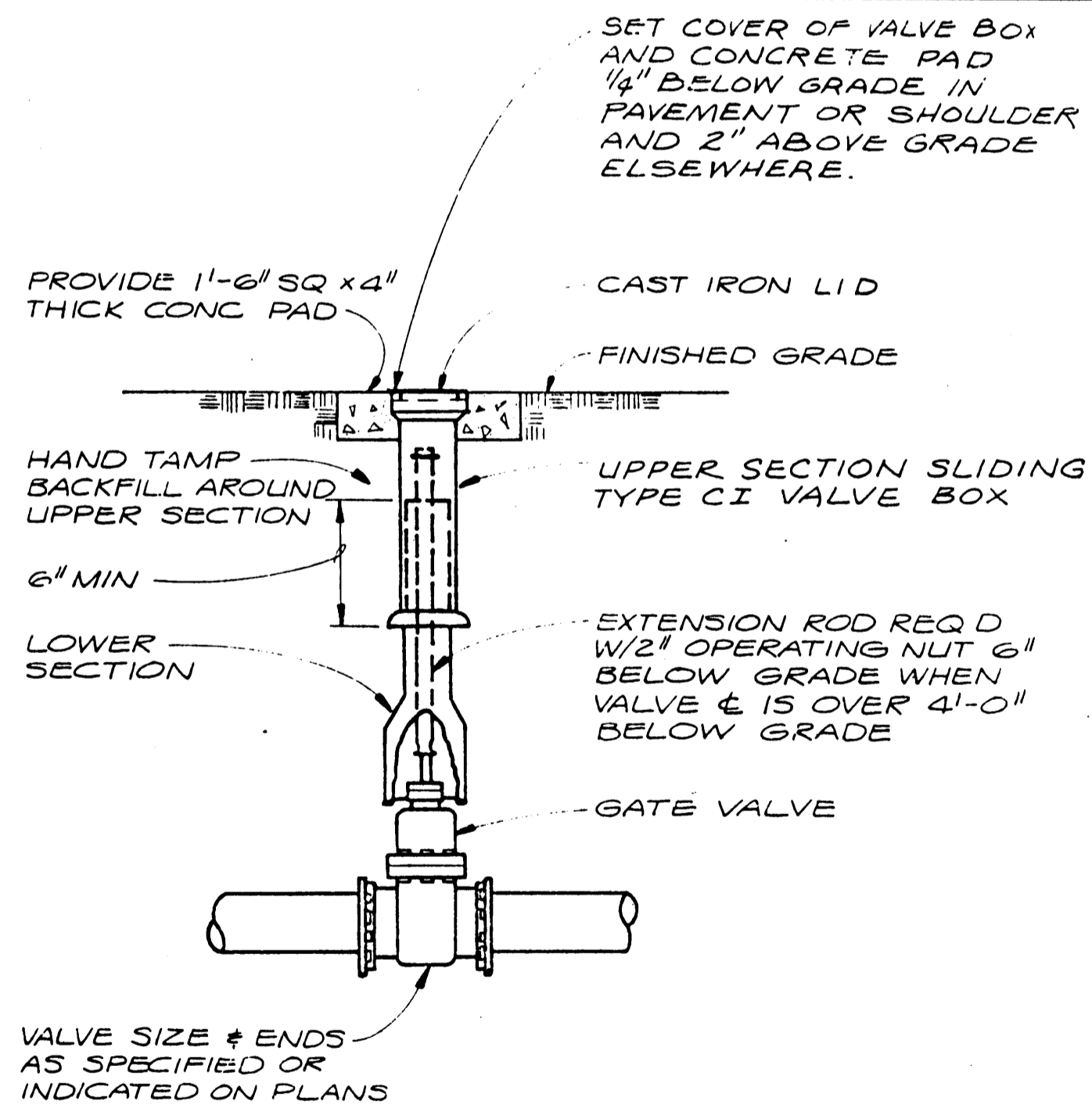
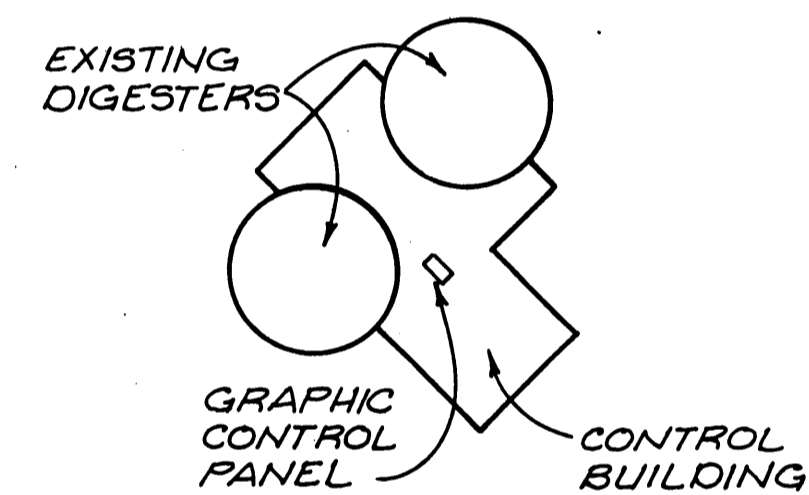


TABLE OF DIMENSIONS - PIG LAUNCHER AND CATCHER			
D <sub>1</sub> (NOMINAL PIPE SIZE)	REDUCER SIZE	L	D <sub>2</sub> (NOMINAL PIPE SIZE)
12"	14" x 12"	38"	14"

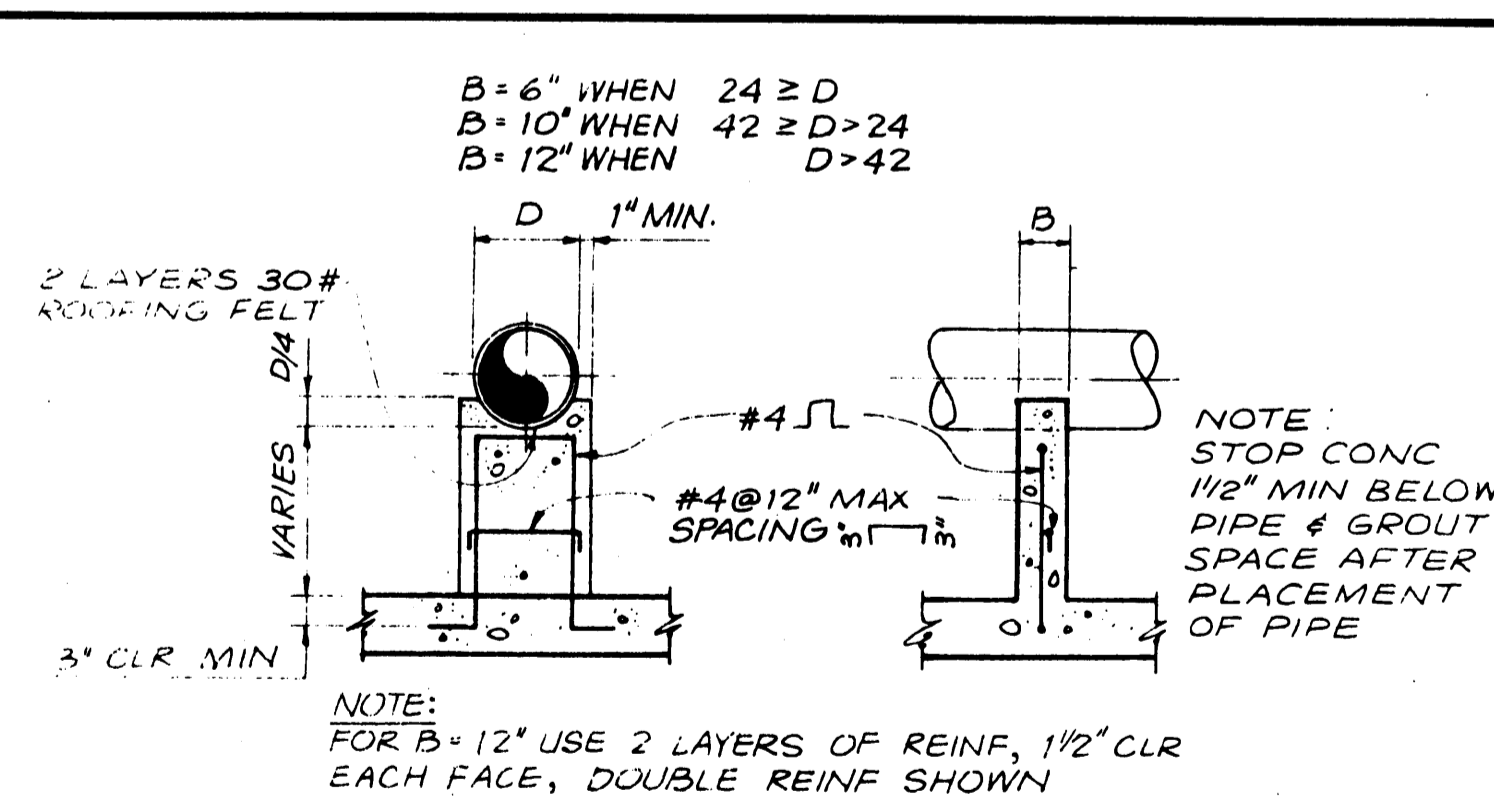
**PIG LAUNCHER**  
NTS



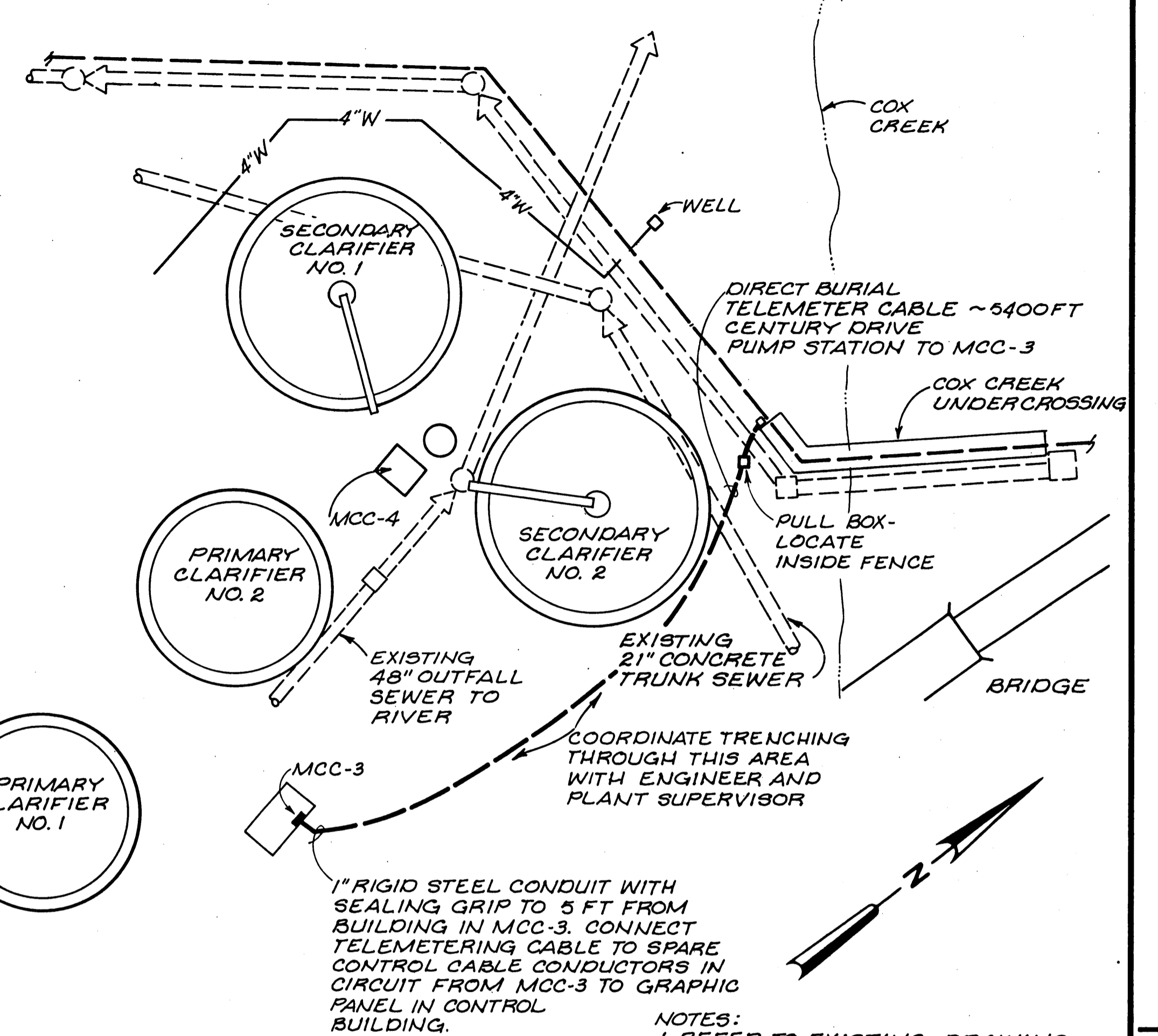
**BURIED GATE VALVE BOX SETTING**  
NTS



**ALBANY SEWAGE TREATMENT PLANT TELEMETER ROUTE**  
NTS



**CONCRETE PIPE SUPPORT**  
NTS



- NOTES:
- REFER TO EXISTING DRAWING C3984-1, SHEET 73 OF 84.
  - ADD ALARM TO GRAPHIC CONTROL PANEL IN ALARM SPACE - REFER TO EXISTING DRAWING C3984-1, SHEET 82 OF 84.

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Revisions Drawn by I.M. SCHLABACH Date FEB 1983

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REGISTERED PROFESSIONAL ENGINEER  
I.M. Schlabach  
N. Bruce Rawls

CH2M HILL  
DSGN N.B. RAWLS  
DR I.M. SCHLABACH  
CHK R.L. HUMPHREY  
APVD M.D. LARKIN

NO.	DATE	REVISION	BY	APVD

DRAPERVILLE SANITARY SEWAGE COLLECTION SYSTEM

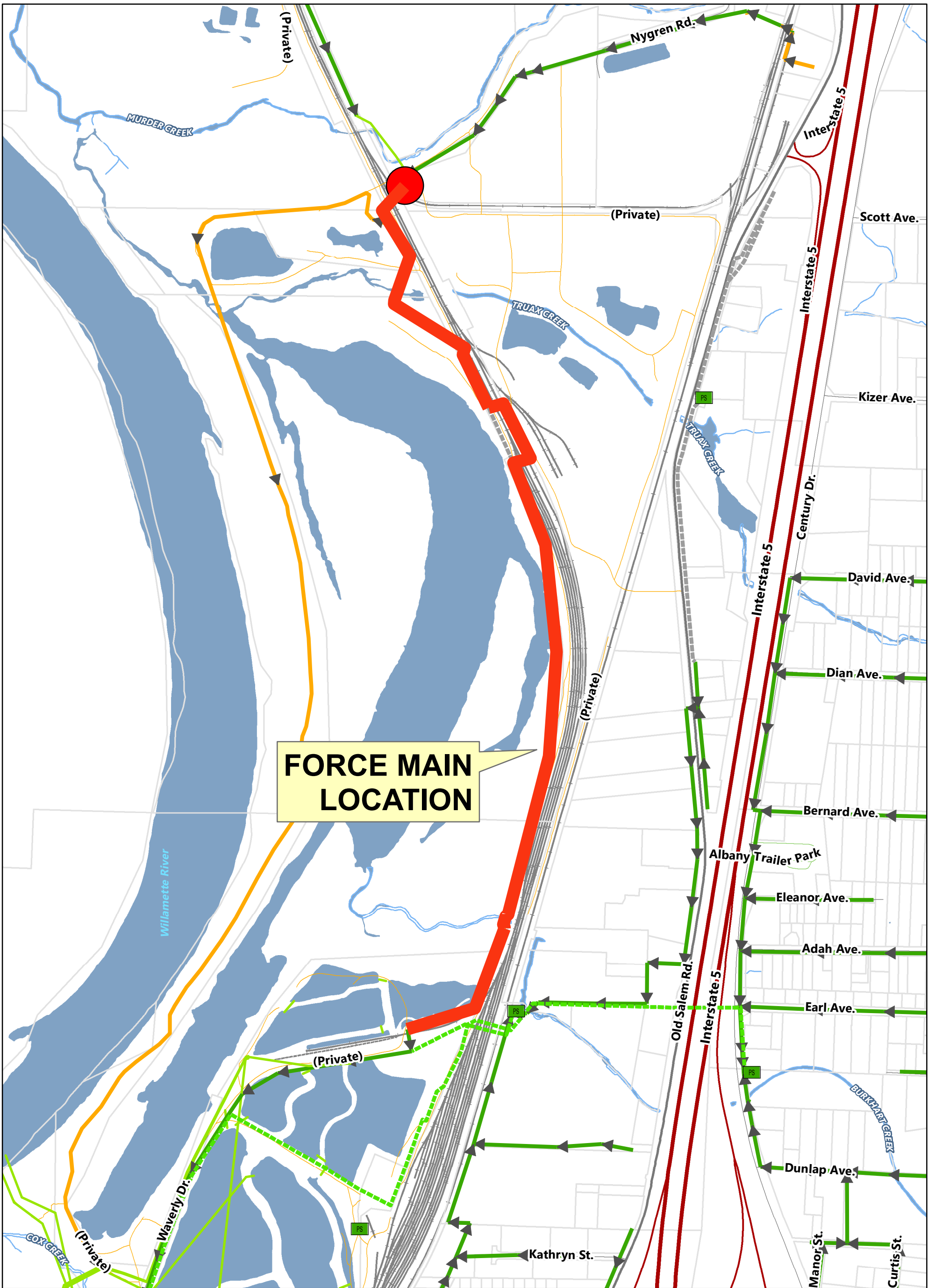
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CITY OF ALBANY  
ALBANY, OREGON

CENTURY DRIVE PUMP STATION, DETAILS

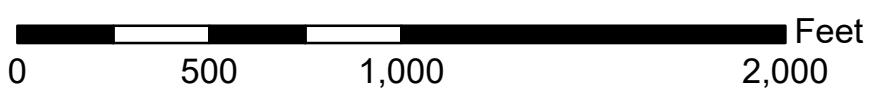
SHEET 36  
DATE APRIL 1982  
PROJ NO. C13322.A1





**FORCE MAIN  
LOCATION**

**WAH CHANG FORCE MAIN VICINITY MAP**



AUTOMATIC SWITCH FOR CONTROL OF LIGHTS AND BLOWER WHEN LID IS RAISED

MANUAL SWITCH FOR CONTROL OF LIGHTS AND BLOWER IN STATION

140 C.F.M. BLOWER TO OPERATE WITH EITHER PUMP AND WITH OPEN ACCESS LID AND MANUAL SWITCH

CATHODIC PROTECTION TEST STATION

ALUMINUM LADDER

ACCESS TUBE 36" O.D. X 1/4" WALL

THREE 17 LB. MAGNESIUM ANODE

FIELD WELD ALL AROUND AND TOUCH-UP WITH EPOXY SHIPPED WITH STATION - TO BE PERFORMED BY OTHERS

8' DIA. DOMED HEAD X 1/4" WALL

8' DIA. X 7' HIGH CHAMBER X 1/4" WALL

100 WATT LIGHT FIXTURE WITH VAPOR-PROOF PLASTIC GLOBE

VACUUM PUMP (FOR EACH PUMP)

DEHUMIDIFIER MODEL G.E. DH-24 WITH HUMIDISTAT

1500 WATT ELECTRIC HEATER AUTOMATIC, FAN FORCED

PRIMING SYSTEM (FOR EACH PUMP)

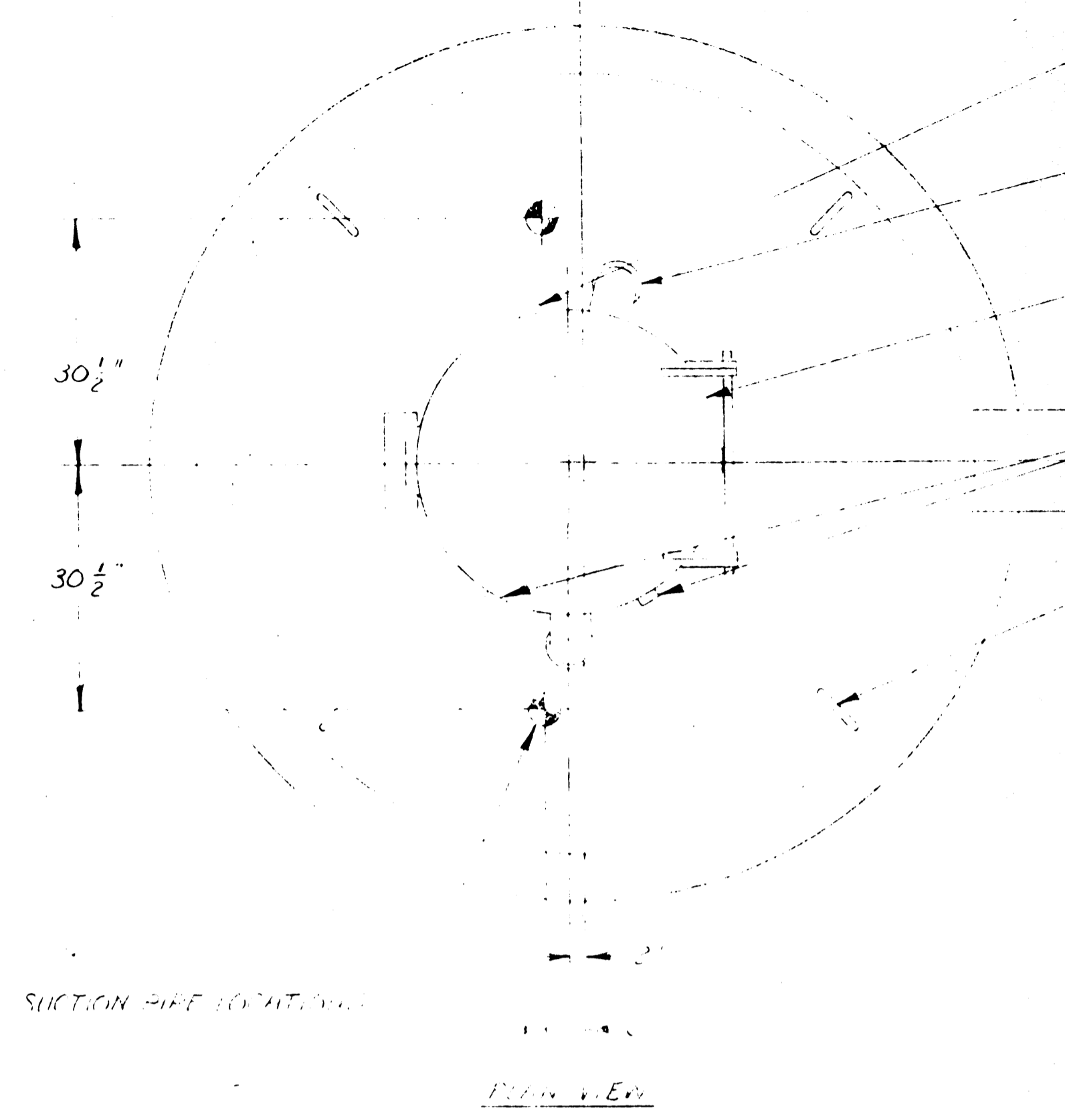
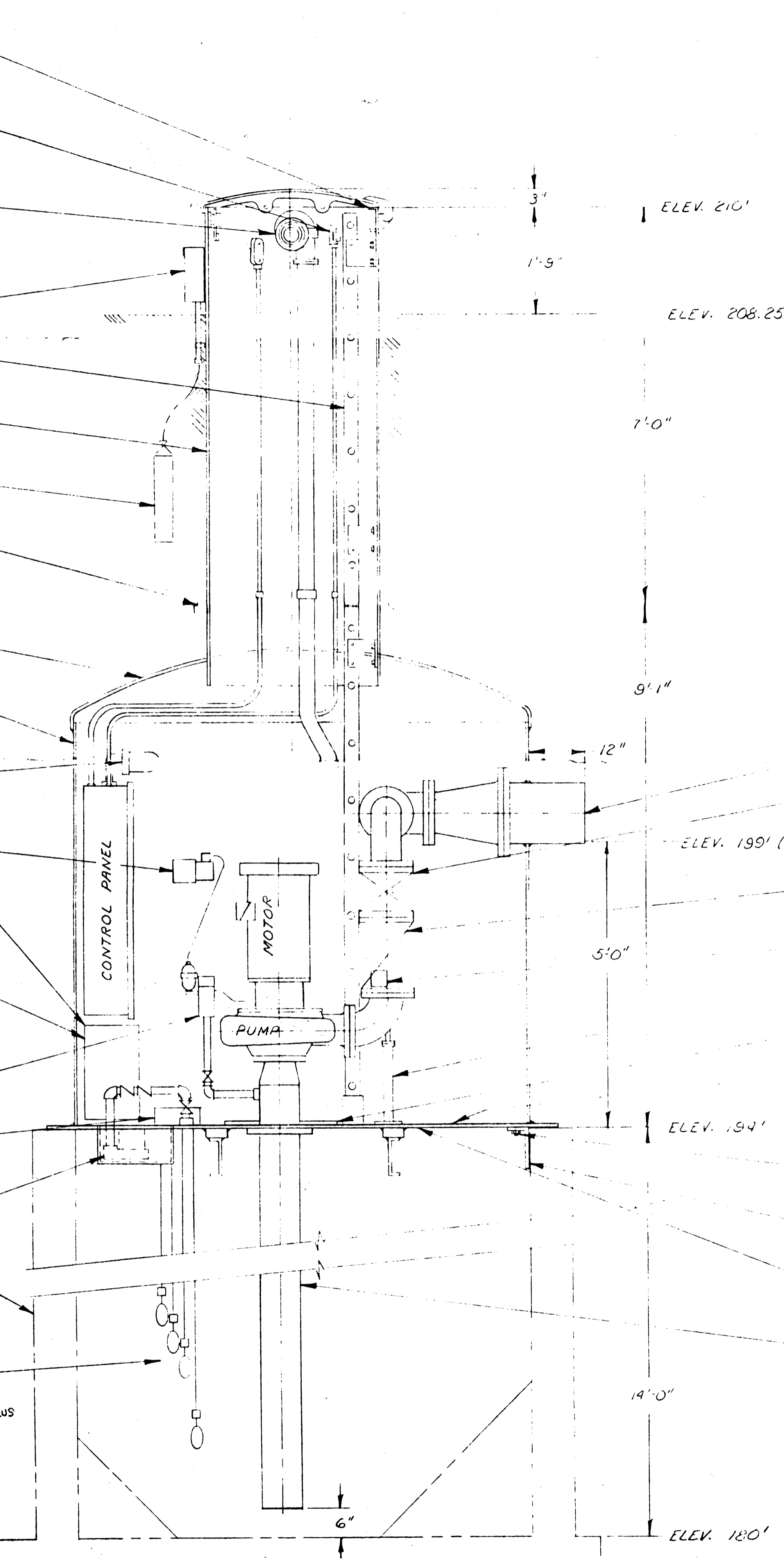
FLOAT SWITCH J-BOX

AUTOMATIC SUMP PUMP MODEL ENPO 1002-474 1 1/4" SUMP DISCHARGE PIPING WITH GATE VALVE AND TWO CHECK VALVES

8' WET WELL BY OTHERS  
NOTE: WET WELL MUST BE VENTED

CONTROL	ELEV.	INCHES
PUMPS OFF	181.97	144
LEAD ON	188.50	102
BOTH ON	189.00	60
ALARM ON	189.50	54

Invert el = 189.50



2" N.P.T. COUPLING FOR INCOMING POWER CONDUIT (12" FROM TOP OF ACCESS TUBE)

SCREENED AIR INTAKE AND EXHAUST

HINGED CAST ALUMINUM LID ASSY. WITH HOLD OPEN SUPPORT - AUTOMATIC LOCK LATCH - SAFETY DEVICE AND LADDER RUNGS ON UNDERSIDE

TWO 3/4" N.P.T. COUPLING FOR ALARMS (5" FROM TOP OF ACCESS TUBE)

4 STATION LEFT LOG LUGS

**PUMPS**

2 CORNELL SLOWWAVE PUMPS  
MODEL 6NH7A-VM 25 HP 1200 RPM  
EACH PUMP 1300 GPM. 47 FT. T.D.H.  
(DOUBLE MECHANICAL SEAL)

**CONTROL PANEL NEMA 1, UL LABELED**

480 VOLT 3 PHASE 40 Hz. 3 WIRE  
150 AMP MAIN CIRCUIT BREAKER  
45 AMP PUMP CIRCUIT BREAKERS  
4 FLOAT SWITCH CONTROL  
SINGLE PHASE LOAD PANEL  
SEE ELEMENTARY DWG. 03383

**PAINT SPEC.**

INTERIOR: TWO FINISH COATS OF "CARBOLINE"  
1294 WHITE ACRYLIC OVER  
RUSTBOND 888X  
EXTERIOR: 16 MILS "ENSHARD" 963 COAL TAR EPOXY

**SPARE PARTS**

- 1) ONE GALLON EACH COLOR PAINT
- 2) TWO MECH. SEALS
- 3) TWO FILTER CONES
- 4) TWO VOLUTE GASKETS
- 5) ONE LIGHTWEIGHT HOIST

**FURNISHED BY OTHERS**

ALL PIPING, CONDUIT, ELECTRICAL WIRING, ETC., EXTERNAL TO STATION, (POWER FEEDER CONDUCTORS TO MAIN CIRCUIT BREAKER INSIDE STATION BY OTHERS)

FOR: MASSART CO., SEATTLE, WASH.  
ENGR: CH2M HILL - JIM SMITH, CORVALLIS  
JOB: CITY OF MILLERSBURG, OR.  
MURDER CREEK PUMP STATION

8" DIA. POSI-PRIME TWO STATION	87794
CORNELL PUMP CO. - PORTLAND, OREGON	E2385



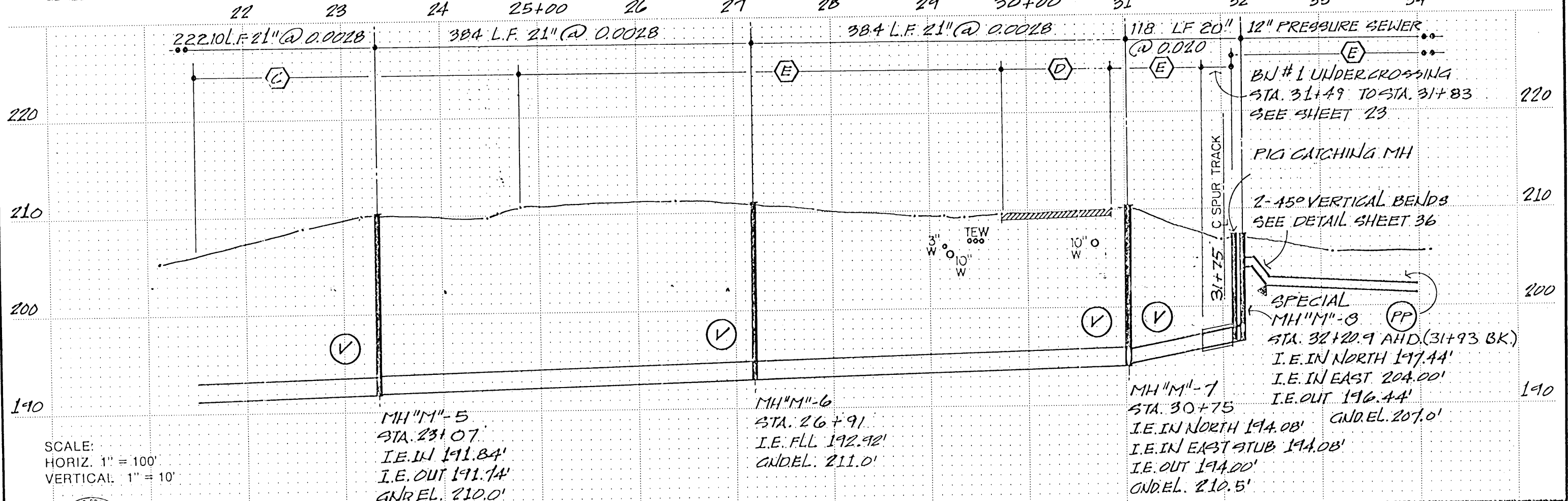
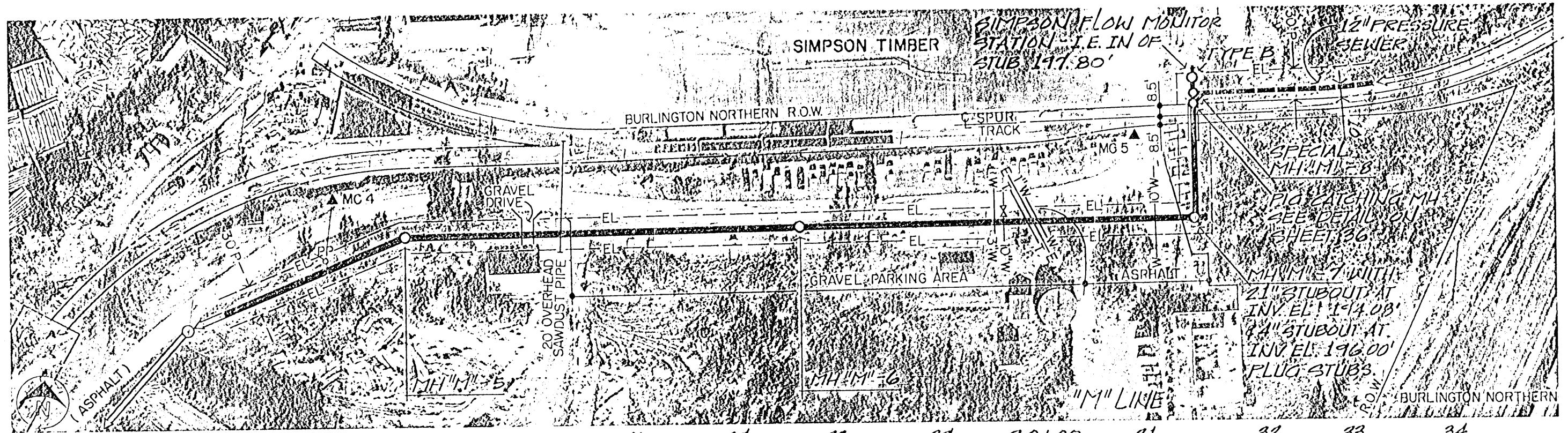
INDEX TO DRAWINGS

BENCH MARK LOG

SHEET NO.	TITLE	TBM NO.	USC&GS ELEVATION	DESCRIPTION AND LOCATION
1	VICINITY AND INDEX MAP			
2	DRAWING INDEX, BENCH MARK LOG INFORMATION			
3	LEGEND AND SOILS			
<b>MILLERSBURG TRUNK SEWER - "M" LINE</b>				
4	PLAN & PROFILE, STA 0+00 TO STA 8+00	MC- 1	194.93	P.AINTED SPOT WEST EDGE OF CLARIFIER WALL (203.95 USC&GS EQUALS 203.95 PLANT DATUM).
5	PLAN & PROFILE, STA 8+00 TO STA 21+50	MC- 2	199.04	S.W. CORNER OF CONC PAD WITH 3 TANKS ON PAD. NEAR SLUDGE LOADING AREA.
6	PLAN & PROFILE, STA 21+50 TO STA 34+00			
7	PLAN & PROFILE, STA 34+00 TO STA 43+00			
8	PLAN & PROFILE, STA 43+00 TO STA 55+00	MC- 3	198.66	R.R. SPIKE 18" ABOVE GROUND ON EAST SIDE OF TELEPHONE POLE NO. 5-1/2. APPROXIMATELY 200' NORTH OF BRIDGE NEAR TREATMENT PLANT.
9	PLAN & PROFILE, STA 55+00 TO STA 65+00			
10	PLAN & PROFILE, STA 65+00 TO STA 76+00			
11	PLAN & PROFILE, STA 76+00 TO STA 84+00	MC- 4	211.44	R.R. SPIKE IN POWER POLE NO. 058705 ON WEST EDGE OF ROAD APPROXIMATELY OPPOSITE BURLINGTON NORTHERN ENTRANCE.
12	PLAN & PROFILE, STA 84+00 TO STA 96+00			
13	PLAN & PROFILE, STA 96+00 TO STA 108+88			
14	PLAN & PROFILE, STA 108+88 TO STA 120+00	MC- 5	210.11	R.R. SPIKE IN SOUTH SIDE OF TELEPHONE POLE NO. 11 ON NORTH SIDE OF RD NEAR SIMPSON MILL ENTRANCE.
15	PLAN & PROFILE, STA 120+00 TO STA 125+94 END			CHISELED "X" IN EASTERLY CONC PAD FOR SIGN. SIGN READS "TRUCK SHIPPING AND RECEIVING ONLY - BEYOND THIS POINT." SIGN NEAR SPUR CROSSING AT SIMPSON MILL.
<b>"MA" LINE</b>				
16	PLAN & PROFILE, STA 0+00 TO STA 11+00			
17	PLAN & PROFILE, STA 11+00 TO STA 21+72	MC-14	208.91	SMALL BRASS CAP ON TOP OF SOUTH END OF CONC BOX R.R. UNDERPASS AT WAH CHANG PLANT. CAP IS ON EAST SIDE OF R.R. TRACKS.
18	PLAN & PROFILE, STA 21+72.3 TO STA 24+64 END			
<b>"MB" LINE</b>				
19	PLAN & PROFILE, STA 0+00 TO STA 11+00	MC-15	209.28	R.R. SPIKE IN SOUTH SIDE OF ANGLE POWER POLE APPROXIMATELY 75' NORTHWEST OF NORTHWEST CORNER OF WAH CHANG OFFICE BUILDING INSIDE MAIN PLANT.
20	PLAN & PROFILE, STA 11+00 TO STA 24+00			
21	PLAN & PROFILE, STA 24+00 TO STA 31+20 END			
<b>"MBA" LINE</b>				
22	PLAN & PROFILE, STA 0+00 TO STA 4+80 END	MC-16	213.11	R.R. SPIKE IN SOUTH SIDE OF POWER POLE NO. 2 NEAR INTERSECTION OF DURAFLAKE AND WAH CHANG'S BACK ENTRANCE, OPPOSITE DURAFLAKE POND.
<b>RAILROAD UNDERCROSSING DETAILS</b>				
23	BN NO. 1 UNDERCROSSING	MC-17	214.52	R.R. SPIKE APPROXIMATELY 16" ABOVE GROUND ON SOUTHWEST SIDE OF PGE POLE NO. 243; APPROXIMATELY 100' WEST OF SUBSTATION AT GP PLANT.
24	BN NO. 2 UNDERCROSSING			
25	BN NO. 3 UNDERCROSSING	T-653	202.01	3" BRASS CAP ON NORTHEAST WING WALL OF BRIDGE OVER MURDER CREEK; 20' WEST OF SOUTHERN PACIFIC RAILROAD OVERPASS ON OLD SALEM RD. SET OHSD IN 1972.
26	BN NO. 4 UNDERCROSSING			
27	SP NO. 1 UNDERCROSSING			
28	CARRIER/CASING PIPE CROSS SECTION			
<b>CREEK CROSSING DETAILS</b>				
29	COX CREEK CROSSING NO. 1	MC-26	218.02	NAIL AND SHINER IN CENTERLINE R.R. 2600±WEST OF COUNTY ROAD NUMBER 308, 70'±EAST OF P.C. IN R.R. TRACKS, 45' EAST OF NORTH-SOUTH ROW OF TREES IN OLD FENCE LINE. APPROXIMATE STA 4+40 "MB" LINE.
30	TRUAX CREEK CROSSING NO. 2			
31	MURDER CREEK CROSSING NO. 3			
<b>PUMP STATION DETAILS</b>				
32	MURDER CREEK PUMP STATION	MC-30	246.36	R.R. SPIKE IN WEST SIDE OF TELEPHONE POLE NUMBER 175 IN TRIANGLE SHAPED ISLAND AT ENTRANCE TO WESTERN KRAFT PAPER MILL. 28' EAST OF CENTERLINE OF OLD SALEM ROAD NUMBER 308.
<b>MISCELLANEOUS DETAILS</b>				
33	STANDARD MANHOLE DETAILS			
34	STANDARD MANHOLE DETAILS			
35	PIPELINE TRENCH DETAILS			
36	MISCELLANEOUS PIPELINE DETAILS			
37	MISCELLANEOUS PIPELINE DETAILS			
38	CONNECTION AT EXISTING PLANT/FLOW MONITORING STATIONS			
<b>ELECTRICAL DETAILS</b>				
39	ELECTRICAL/INSTRUMENTATION DETAILS			



	DES. JWS/JLM	1	11/77	AS - BUILT	JLM/JWS	BY	APPD.	SANITARY SEWAGE COLLECTION SYSTEM CONTRACT NO. 1	CITY OF MILLERSBURG LINN COUNTY OREGON	DRAWING INDEX, BENCH MARK LOG INFORMATION	SHEET 2
	CHK. DAC										DATE



SCALE:  
HORIZ. 1" = 100'  
VERTICAL 1" = 10'

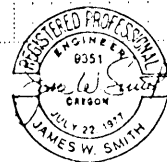
MH "M"-5  
STA. 23+07  
I.E. W 191.84'  
I.E. OUT 191.74'  
GND. EL. 210.0'

MH "M"-6  
STA. 26+91  
I.E. FLL 192.92'  
GND. EL. 211.0'

MH "M"-7  
STA. 30+75  
I.E. IN NORTH 194.08' GND. EL. 207.0'  
I.E. IN EAST STUB 194.08'  
I.E. OUT 194.00'  
GND. EL. 210.5'

MILLERSBURG TRUNK SEWER  
"M" LINE  
PLAN AND PROFILE  
STA 21+50 TO STA 34+00

SHEET 6  
OF 39  
DATE JAN 79  
DWG. NO. C11032-1

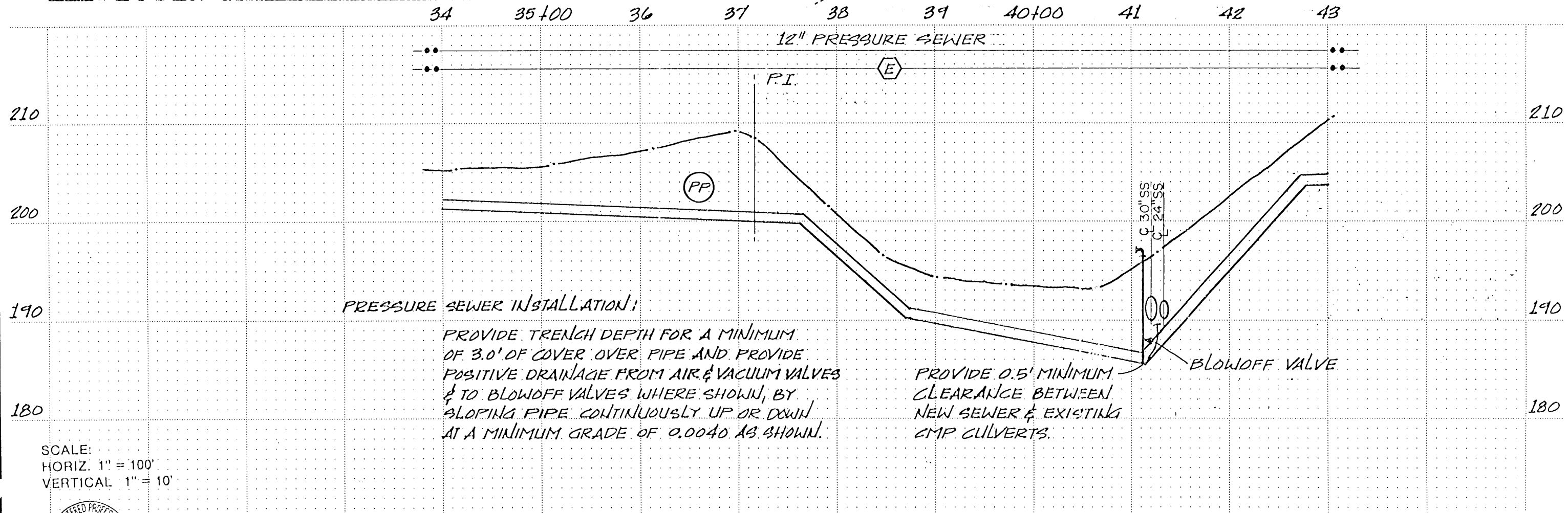
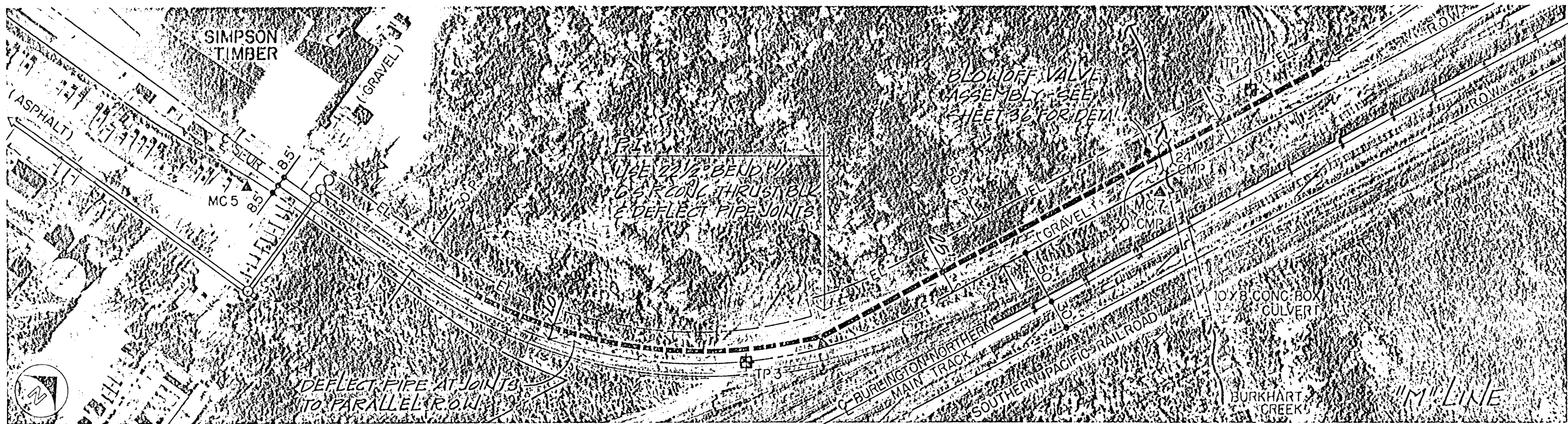


CH2M HILL	DES. JWS, Tam	1 11/79 AS-BUILT	JLM JWS
	DR. Tam		
	CHK. PAC		
	APPD. JWS		
	NO. DATE	REVISION	BY APPD.

SANITARY SEWAGE COLLECTION SYSTEM  
CONTRACT NO. 1

CITY OF MILLERSBURG  
LINN COUNTY, OREGON





**PRESSURE SEWER INSTALLATION:**

PROVIDE TRENCH DEPTH FOR A MINIMUM OF 3.0' OF COVER OVER PIPE AND PROVIDE POSITIVE DRAINAGE FROM AIR & VACUUM VALVES & TO BLOWOFF VALVES WHERE SHOWN, BY SLOPING PIPE CONTINUOUSLY UP OR DOWN AT A MINIMUM GRADE OF 0.0040 AS SHOWN.

PROVIDE 0.5' MINIMUM CLEARANCE BETWEEN NEW SEWER & EXISTING CMP CULVERTS.

SCALE:  
HORIZ. 1" = 100'  
VERTICAL 1" = 10'



CH2M HILL

DES. JWG/EM  
DR. JWG  
CHK. DAC  
APPD. JWS

NO. 1 DATE 11/79 AS-BUILT REVISION

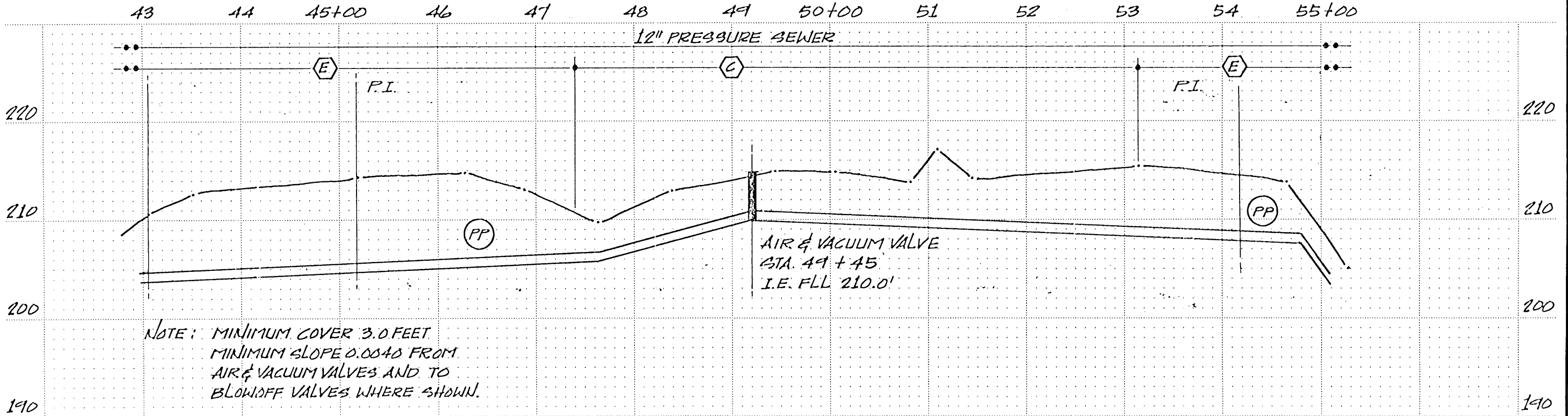
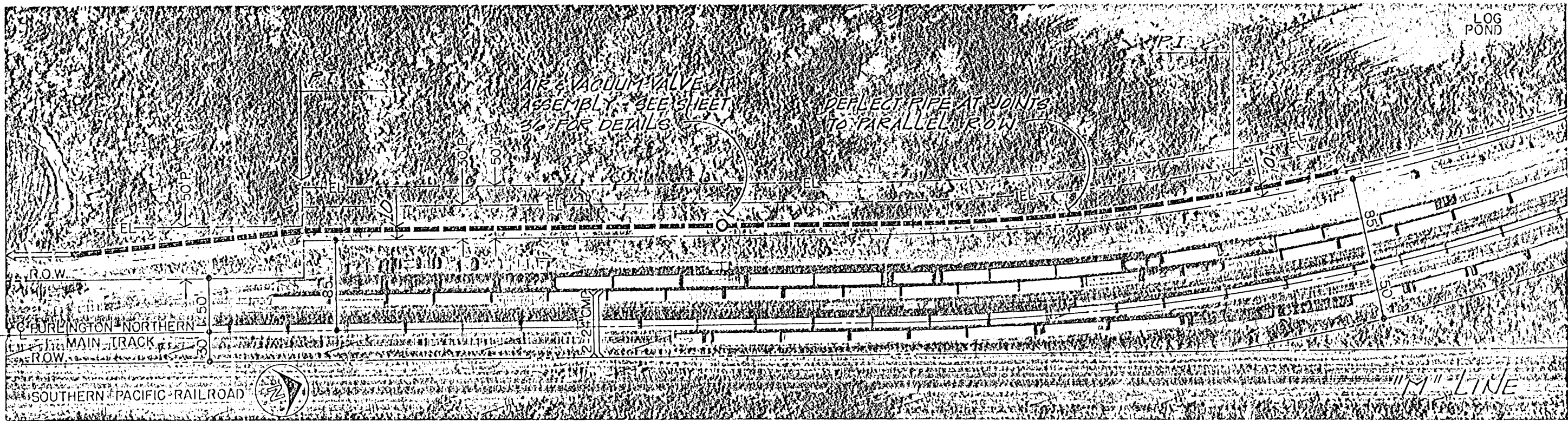
JLM/JWS BY APPD

SANITARY SEWAGE COLLECTION SYSTEM CONTRACT NO. 1

CITY OF MILLERSBURG LINN COUNTY, OREGON

MILLERSBURG TRUNK SEWER "M" LINE PLAN AND PROFILE STA 34+00 TO STA 43+00

SHEET 7 OF 39 DATE JAN 79 DWG NO. C11032-1



SCALE:  
 HORIZ. 1" = 100'  
 VERTICAL 1" = 10'



<b>CH2M HILL</b>	DES. <i>WS, TM</i>	NO. DATE REVISION <b>1 11/79 AS-BUILT</b>	BY APPD <b>JLM JWS</b>
	DR. <i>TM</i>		
	CHK. <i>DAC</i>		
	APPD. <i>JWS</i>		
	NO. DATE REVISION		

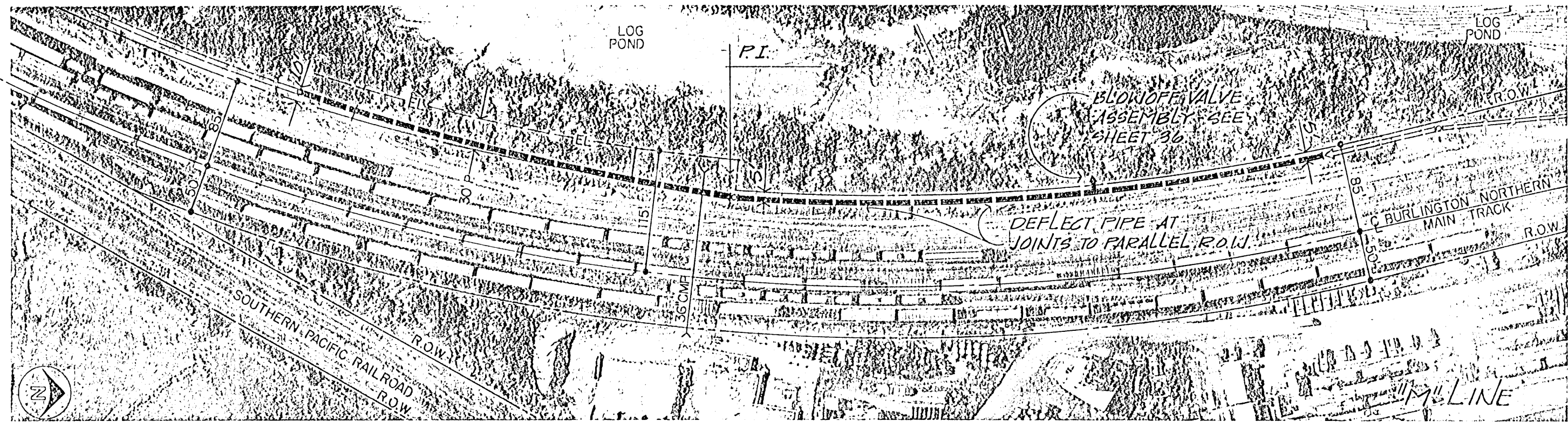
**SANITARY SEWAGE COLLECTION SYSTEM**  
 CONTRACT NO. 1

CITY OF MILLERSBURG  
 LINN COUNTY, OREGON

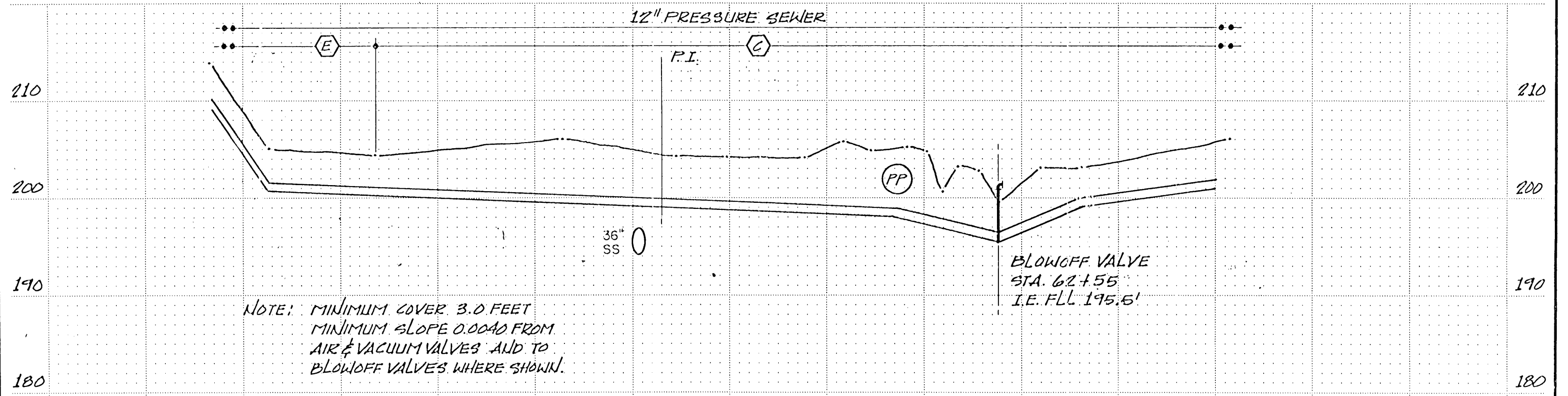
**MILLERSBURG TRUNK SEWER  
 "M" LINE  
 PLAN AND PROFILE  
 STA 43+00 TO STA 55+00**

SHEET **8**  
 OF 39  
 DATE JAN 79  
 DWG. NO. C11032-1

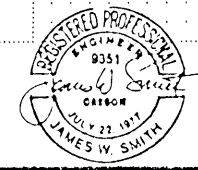




55+00 56 57 58 59 60+00 61 62 63 64 65+00



SCALE:  
HORIZ. 1" = 100'  
VERTICAL 1" = 10'



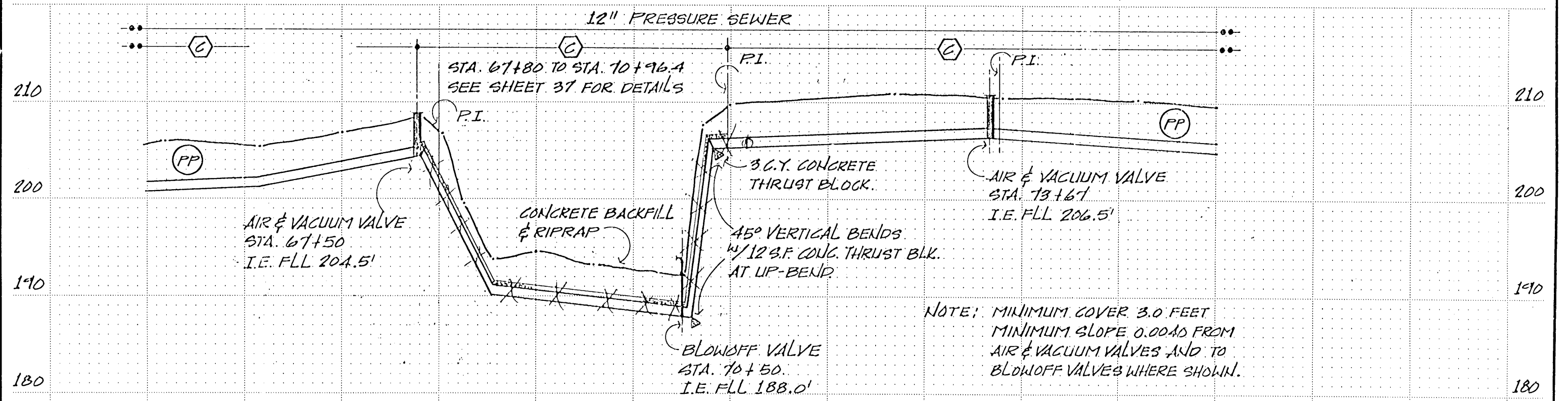
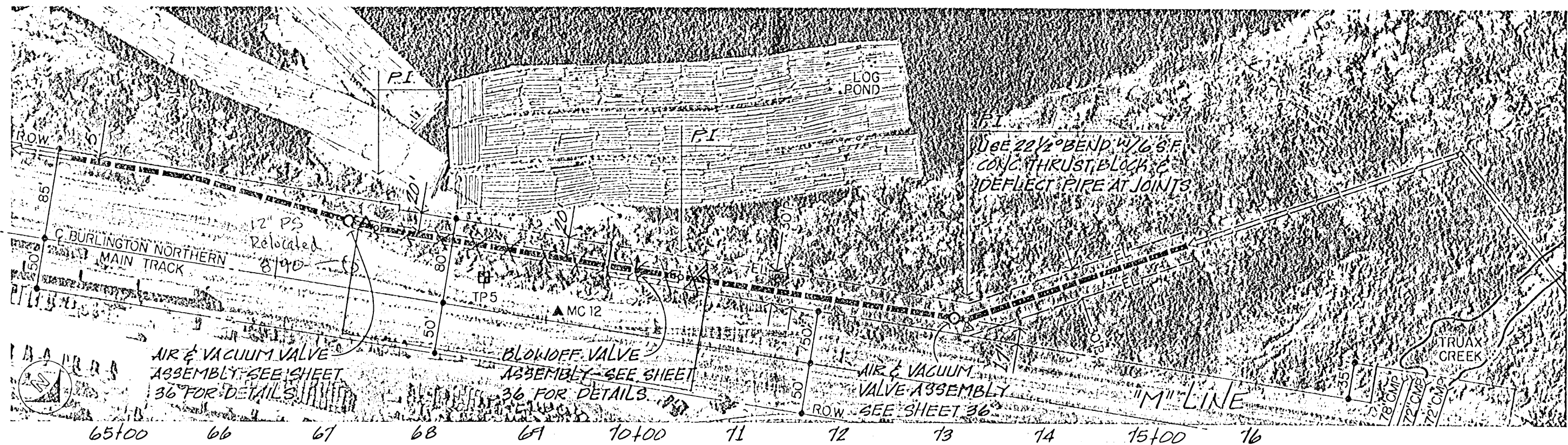
<b>CH2M HILL</b> DES. JWS, km DR. km CHK. DAC APPD. JWS	NO.	DATE	REVISION	BY	APPD.
	1	11/79	AS-BUILT	JLM	JWS

**SANITARY SEWAGE COLLECTION SYSTEM**  
CONTRACT NO. 1

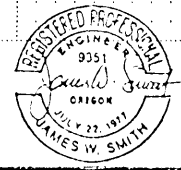
CITY OF MILLERSBURG  
LINN COUNTY, OREGON

**MILLERSBURG TRUNK SEWER  
"M" LINE  
PLAN AND PROFILE  
STA 55+00 TO STA 65+00**

SHEET	9
OF	39
DATE	JAN 79
DWG. NO.	C11032-1



SCALE:  
 HORIZ. 1" = 100'  
 VERTICAL 1" = 10'



CH2M HILL	DES. JWS, Km	2	8/78	REVISED	Jm JLn				
	DR. Km								
	CHK. DAC					1	11/78	AS-BUILT	JLM JWS
	APPD. JWS					NO.	DATE	REVISION	BY

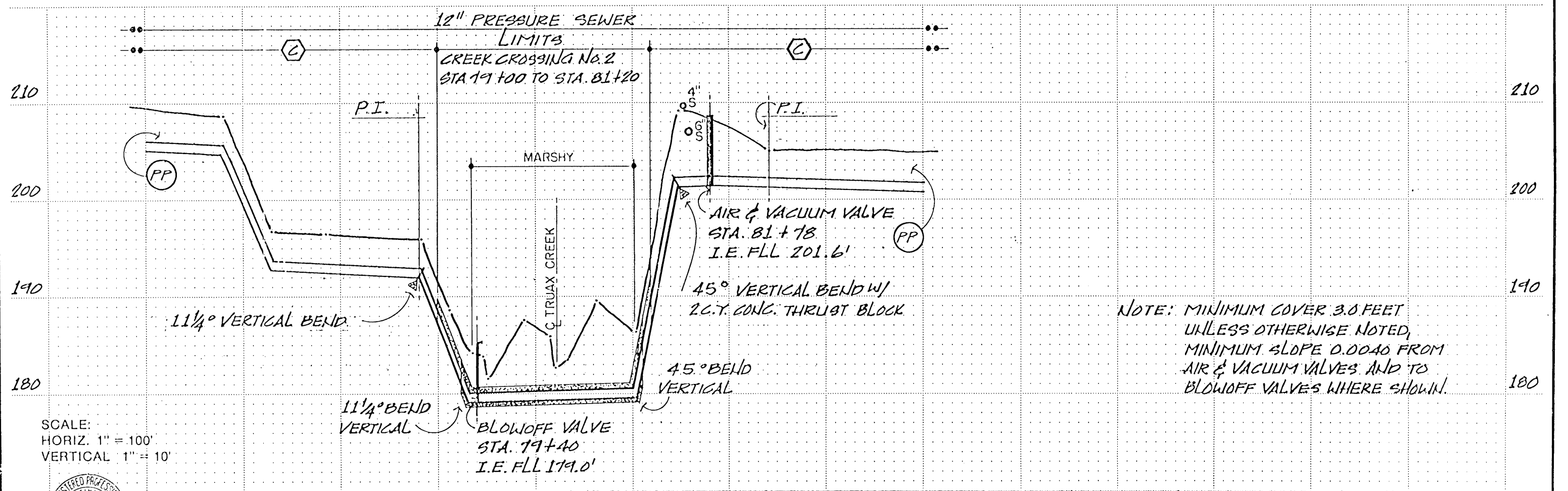
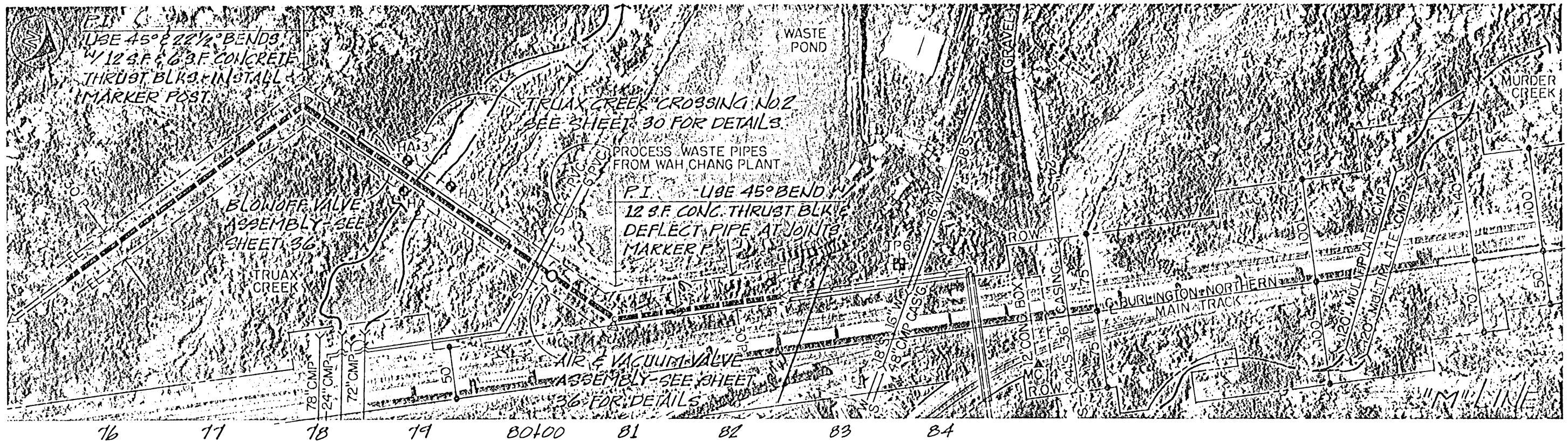
**SANITARY SEWAGE COLLECTION SYSTEM**  
 CONTRACT NO. 1

CITY OF MILLERSBURG  
 LINN COUNTY, OREGON

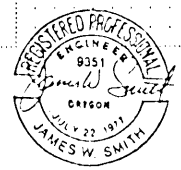
**MILLERSBURG TRUNK SEWER  
 'M' LINE  
 PLAN AND PROFILE  
 STA 65+00 TO STA 76+00**

SHEET 10  
 OF 33  
 DATE JAN 79  
 DWG. C11032-1  
 NO.





SCALE:  
HORIZ. 1" = 100'  
VERTICAL 1" = 10'



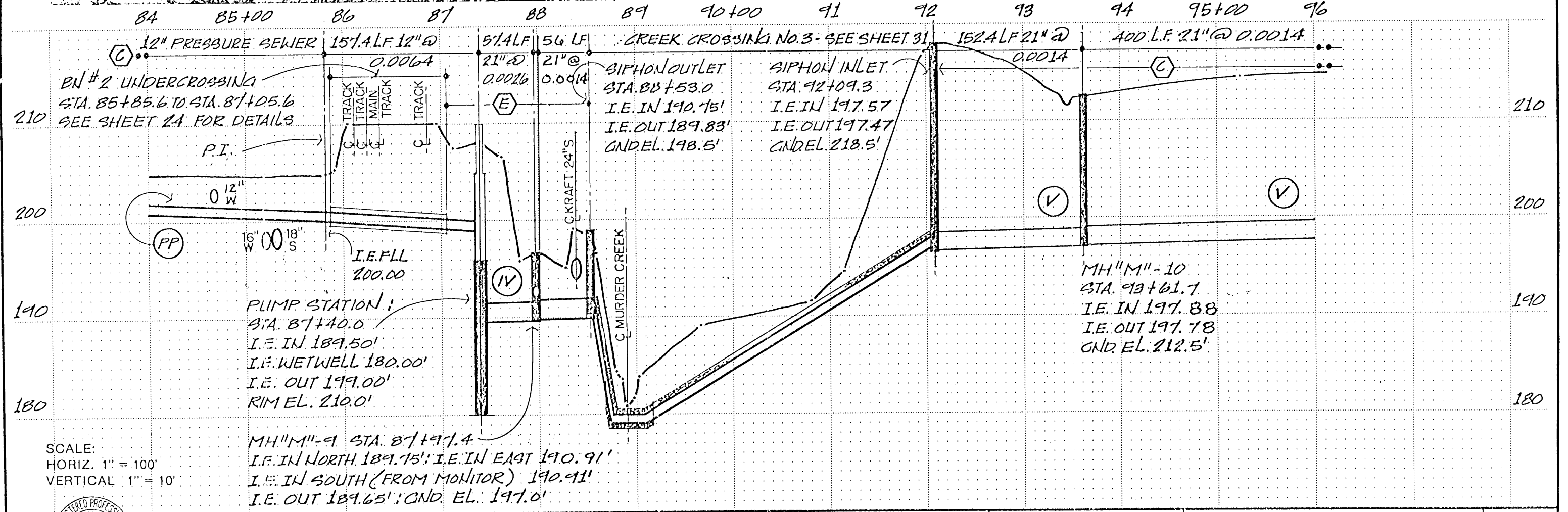
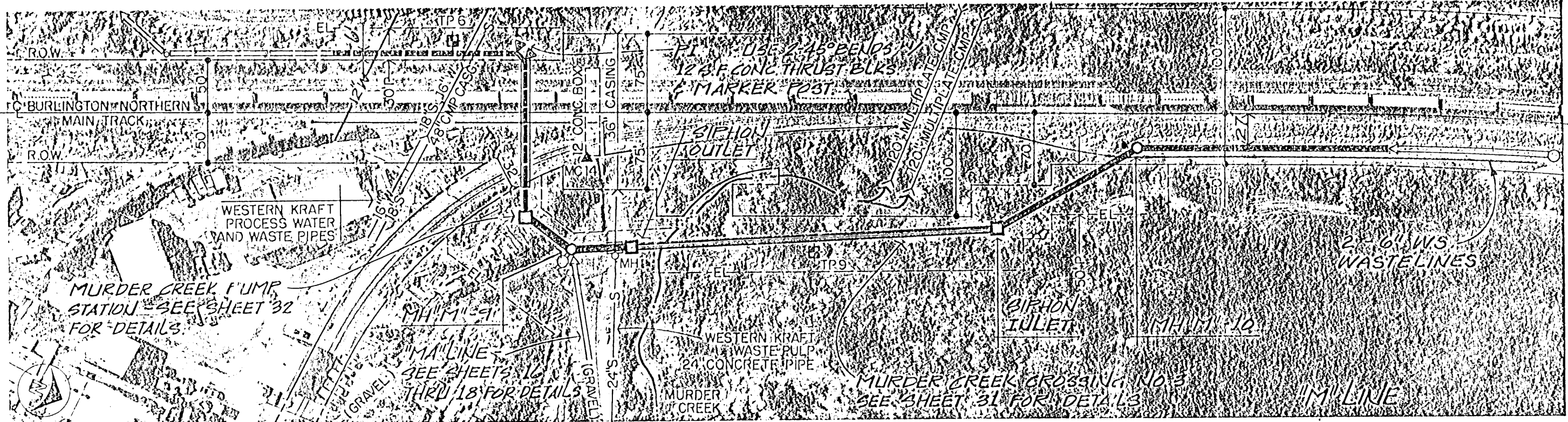
CH2M HILL	DES. JWS/AM	1 11/79	AS-BUILT	JLM/JWS
	DR. TM			
	CHK. DAC			
	APPD. JWS			
NO.	DATE	REVISION	BY	APPD.

**SANITARY SEWAGE COLLECTION SYSTEM**  
CONTRACT NO. 1

CITY OF MILLERSBURG  
LINN COUNTY, OREGON

**MILLERSBURG TRUNK SEWER  
"M" LINE  
PLAN AND PROFILE  
STA 76+00 TO STA 84+00**

SHEET	11
OF	39
DATE	JAN 79
DWG. NO.	C11032-1



SCALE:  
 HORIZ. 1" = 100'  
 VERTICAL 1" = 10'



DES. <i>JWS/jm</i>	NO. DATE	REVISION	BY APPD.
DR. <i>Jm</i>	1 11/79 AS-BUILT		<i>JLM JWS</i>
CHK. <i>DAG</i>			
APPD. <i>JWS</i>			

**SANITARY SEWAGE COLLECTION SYSTEM**  
 CONTRACT NO. 1

CITY OF MILLERSBURG  
 LINN COUNTY, OREGON

MILLERSBURG TRUNK SEWER  
 "M" LINE  
 PLAN AND PROFILE  
 STA 84+00 TO STA 96+00

SHEET 12  
 OF 39  
 DATE JAN 79  
 DWG. NO. C11032-1