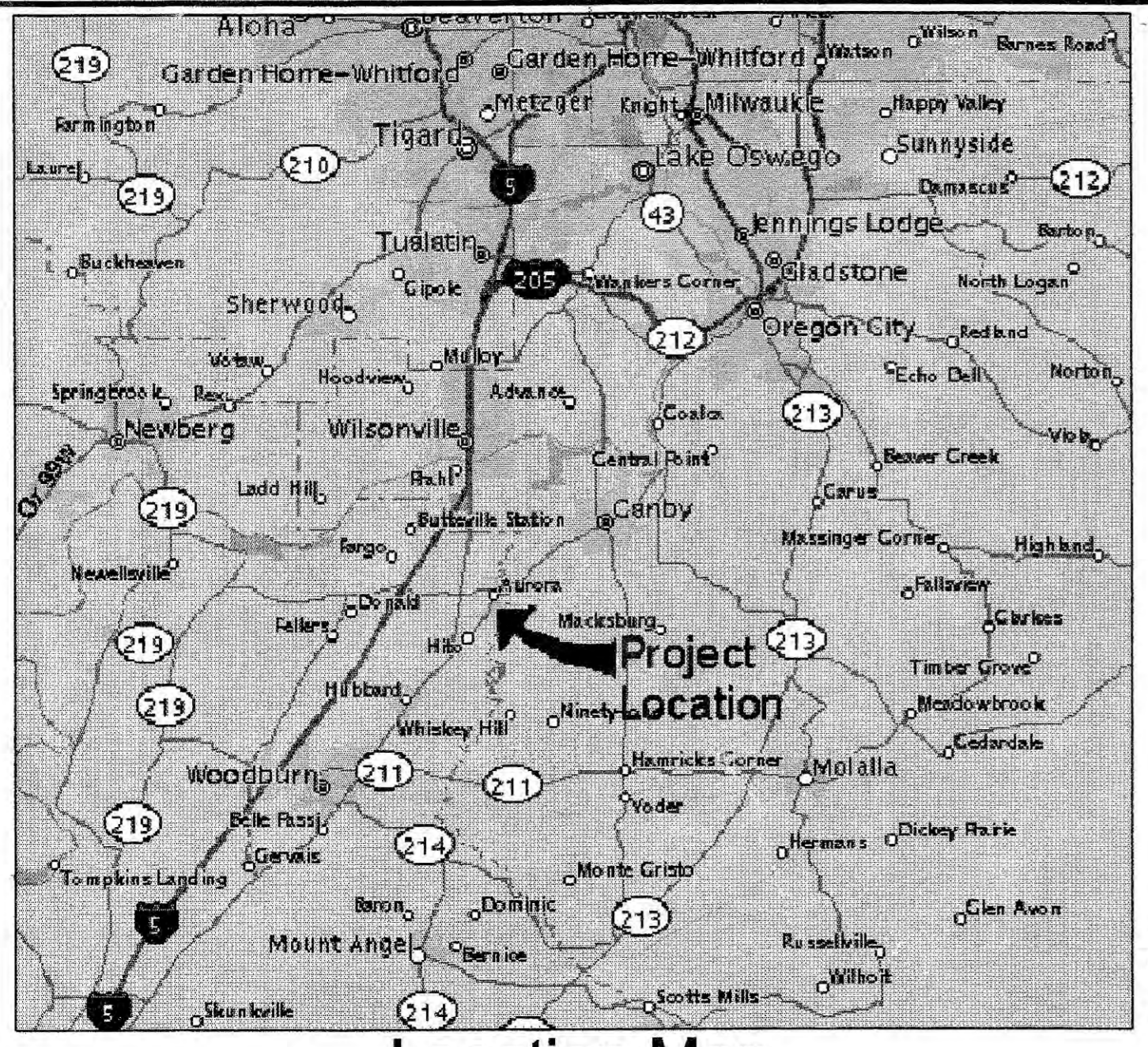
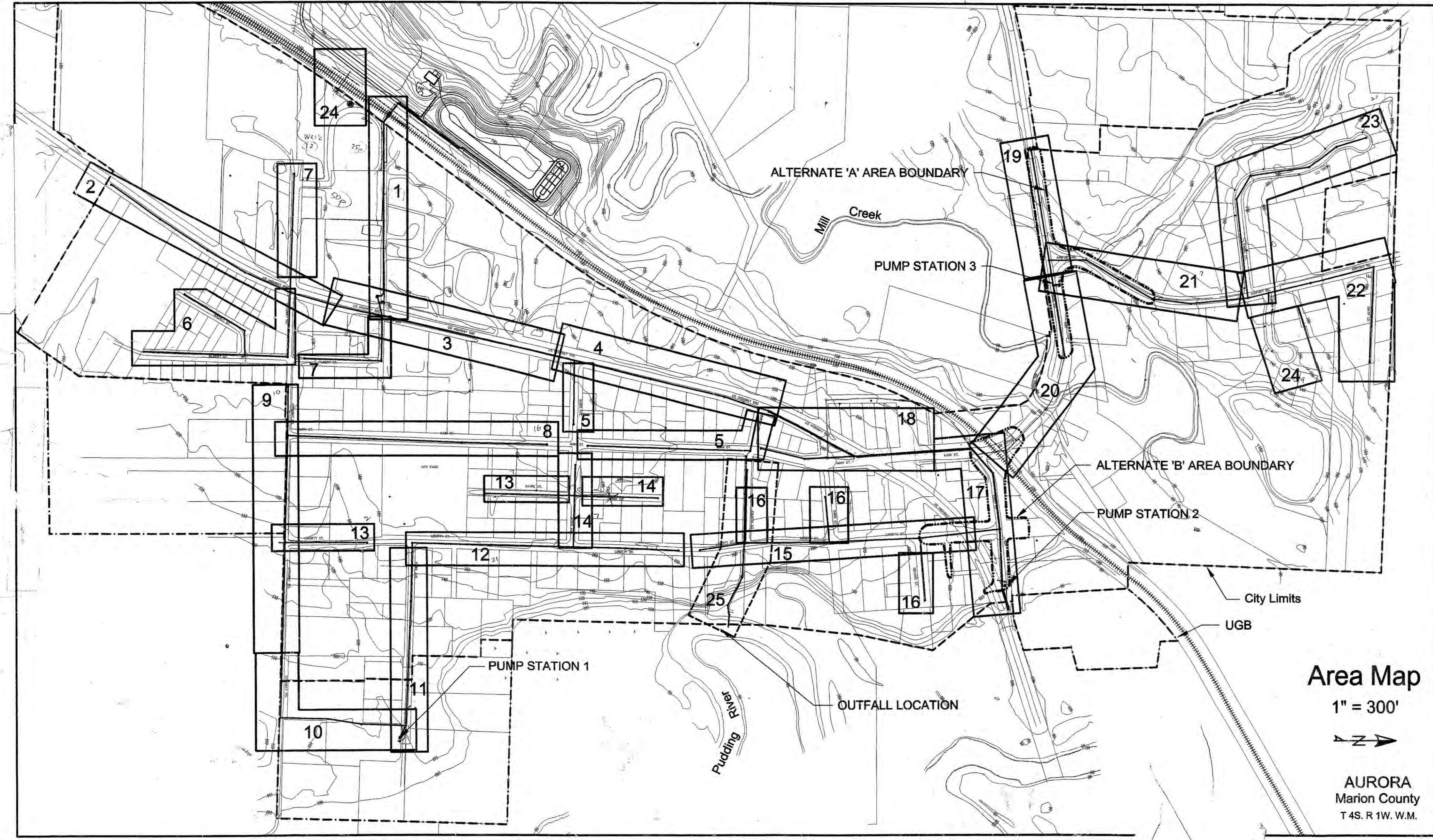


CITY OF AURORA WASTEWATER COLLECTION SYSTEM

June 1999



Location Map
NTS



Area Map
1" = 300'
AURORA
Marion County
T 4S. R 1W. W.M.

9-10
10-
11-111
12-21
13-7
14-7
15-
16-
17-
18-
19-5
20-1
21-7
22-16
23-21
24-9
119

SHEET INDEX

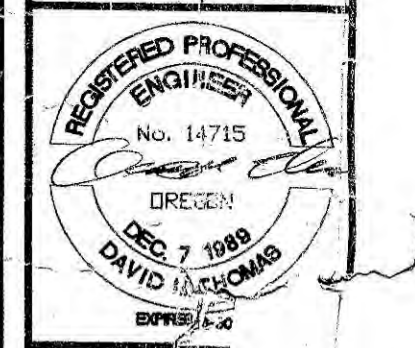
| | |
|--------------------------------|--------|
| Collection System Plan/Profile | 1-24 |
| Outfall Gravity Line | 25 |
| Pump Stations 1,2,3 | 26, 27 |
| Manhole, Misc. Details | 28, 29 |

This Project was funded in part with a financial award from the Water/Wastewater Financing Program, funded by the Oregon State Lottery and administered by the State of Oregon, Economic Development Department

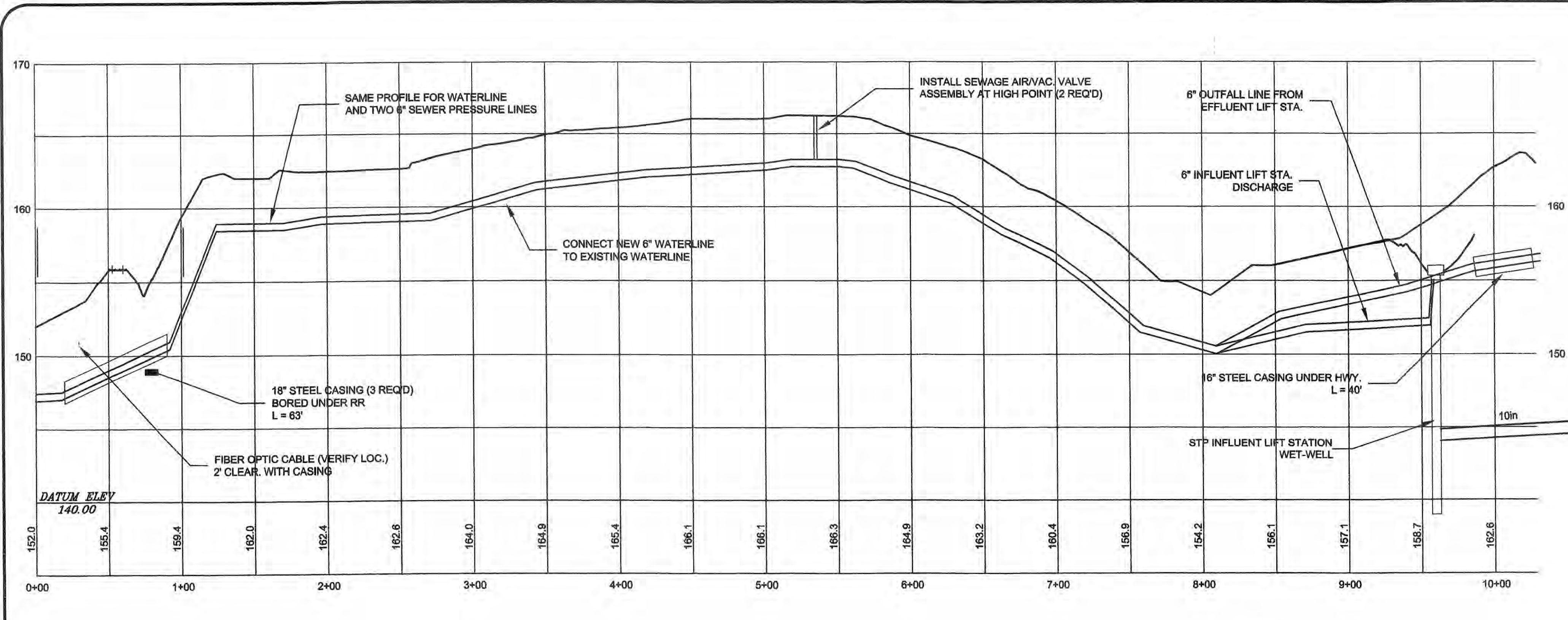
BST, Inc.
engineers, planners, construction managers
4025 ridge lane
west linn, oregon 97068
telephone (503) 650-4919 fax (503) 650-4935

CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

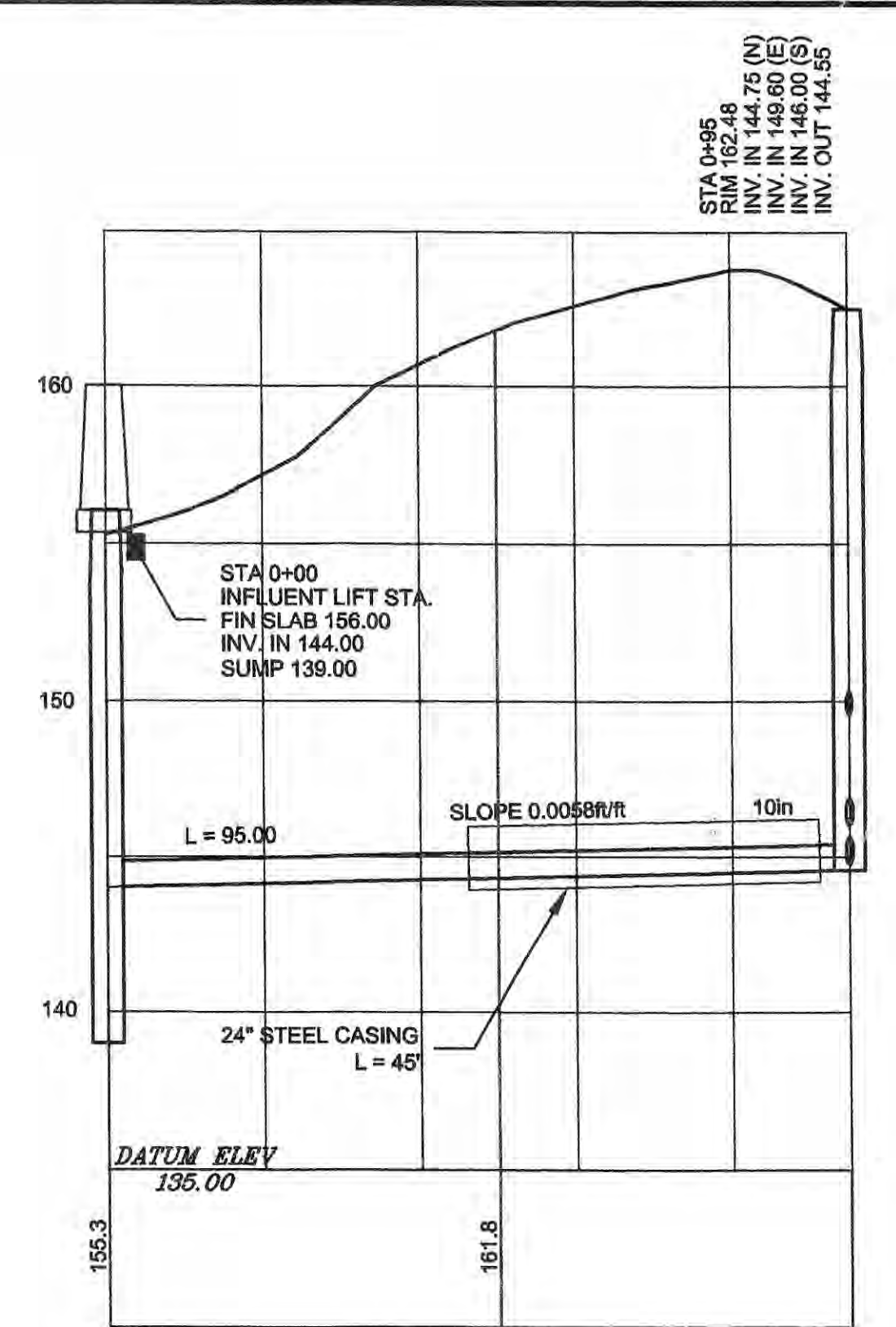
WASTEWATER COLLECTION SYSTEM
PUMP STATIONS, AND OUTFALL



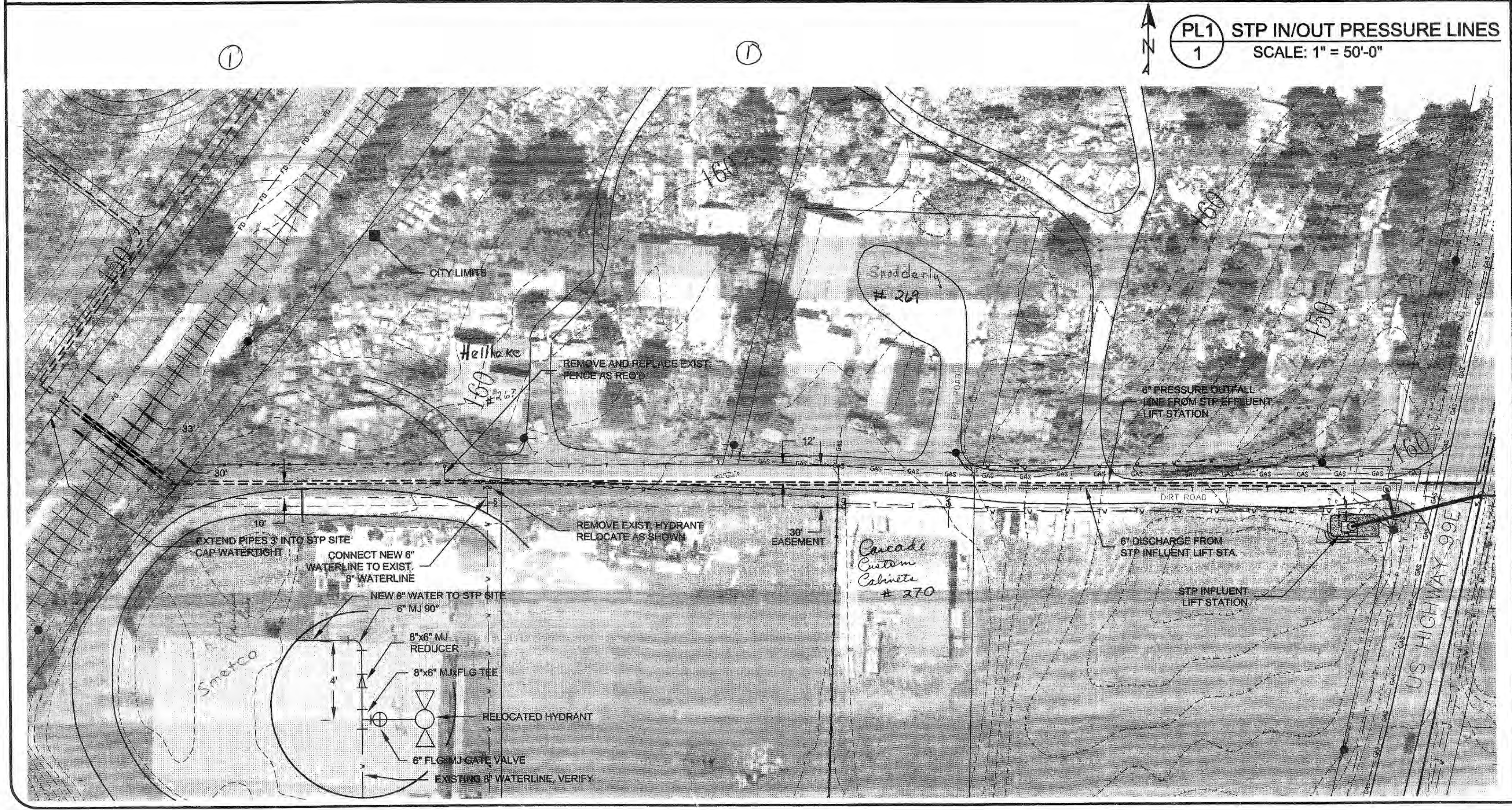
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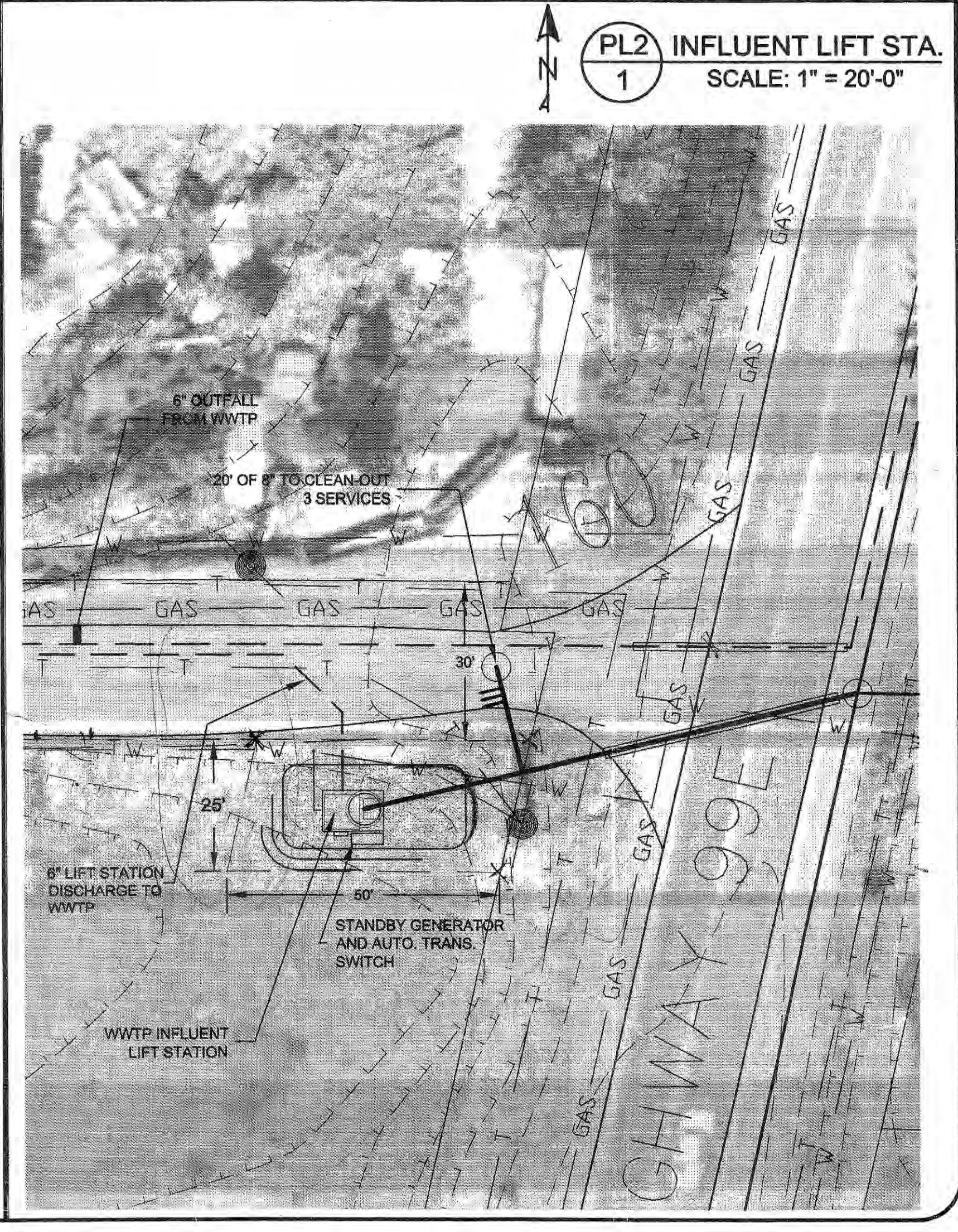
PR1 STP IN/OUT PRESSURE LINES
 1 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



PR2 INFLUENT LIFT STA.
 1 HOR. SCALE: 1" = 20'-0"
 VERT. SCALE: 1" = 5'-0"



PL1 STP IN/OUT PRESSURE LINES
 1 SCALE: 1" = 50'-0"



PL2 INFLUENT LIFT STA.
 1 SCALE: 1" = 20'-0"

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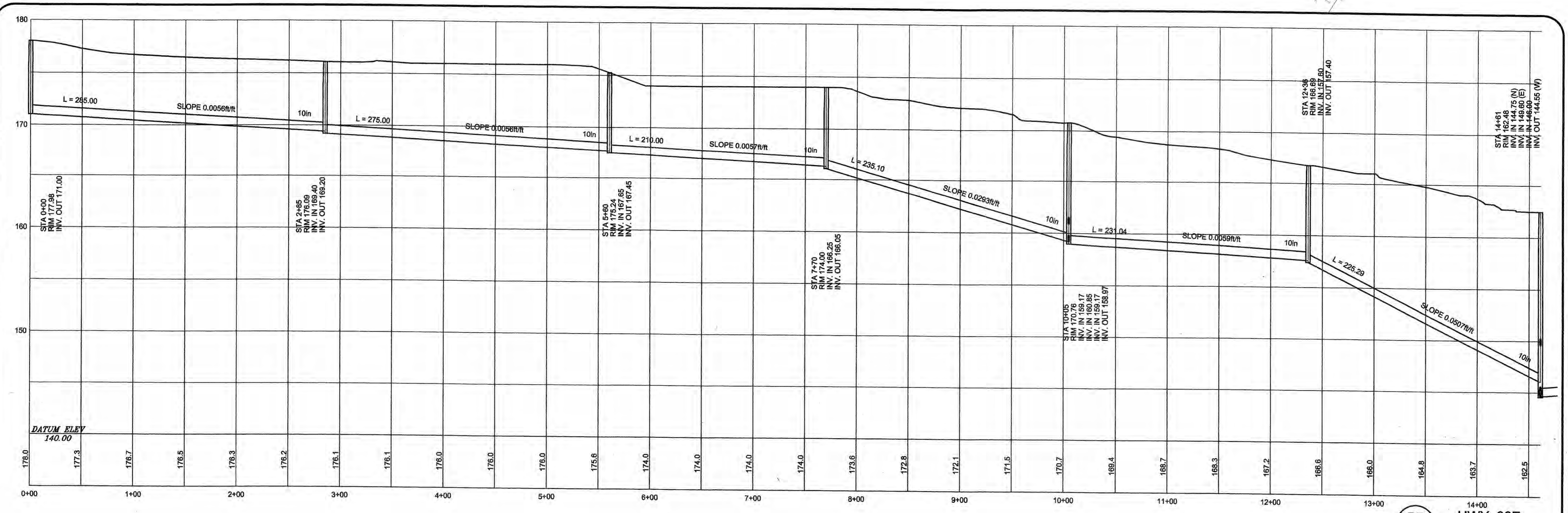
CITY OF AURORA
 MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 STP INFLUENT LIFT STATION
 STP IN/OUT PRESSURE LINES

REGISTERED PROFESSIONAL ENGINEER
 No. 14715
 Oregon
 DEC 7 1988
 DAVID M THOMAS
 EXPIRES 6-30-90

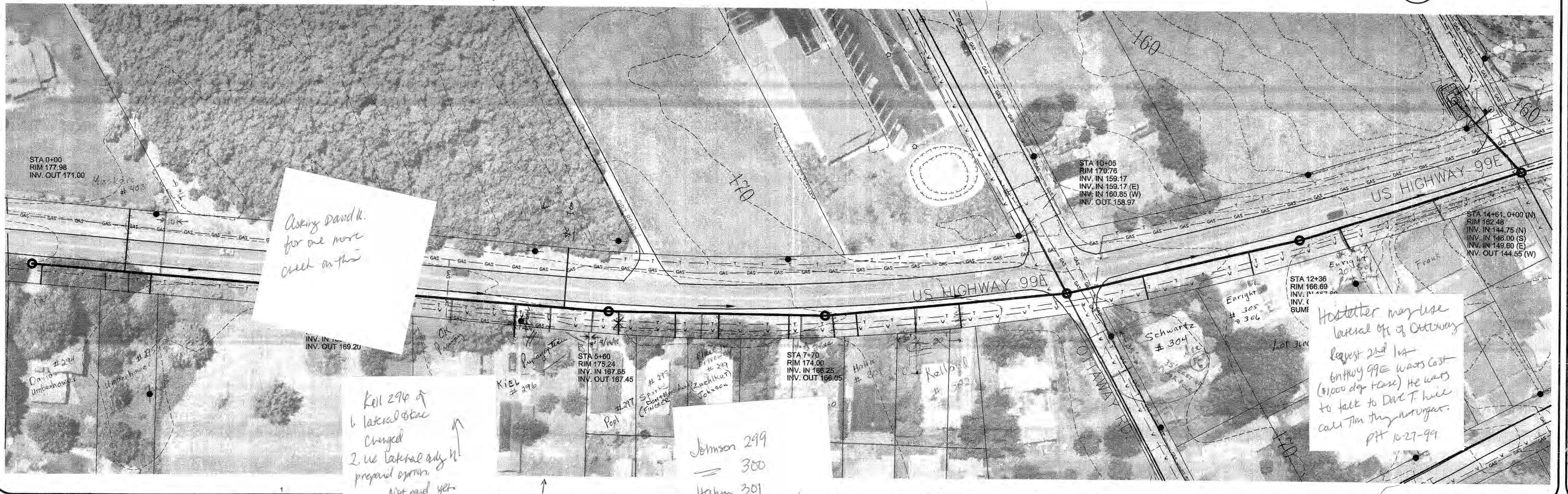
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Turner



PR 2 HWY. 99E
 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PL 2 HWY. 99E
 SCALE: 1" = 50'-0"



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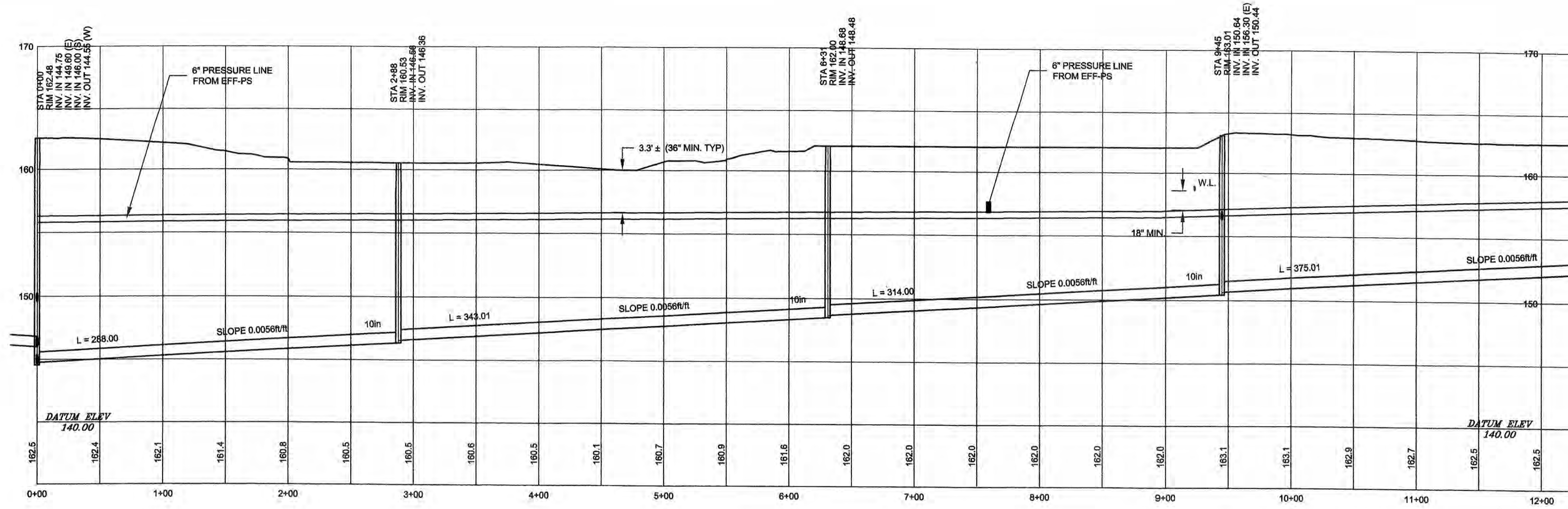
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 HIGHWAY 99E

REGISTERED PROFESSIONAL ENGINEER
 No. 14715
 DAVID M. THOMPSON
 DEC 7 1989

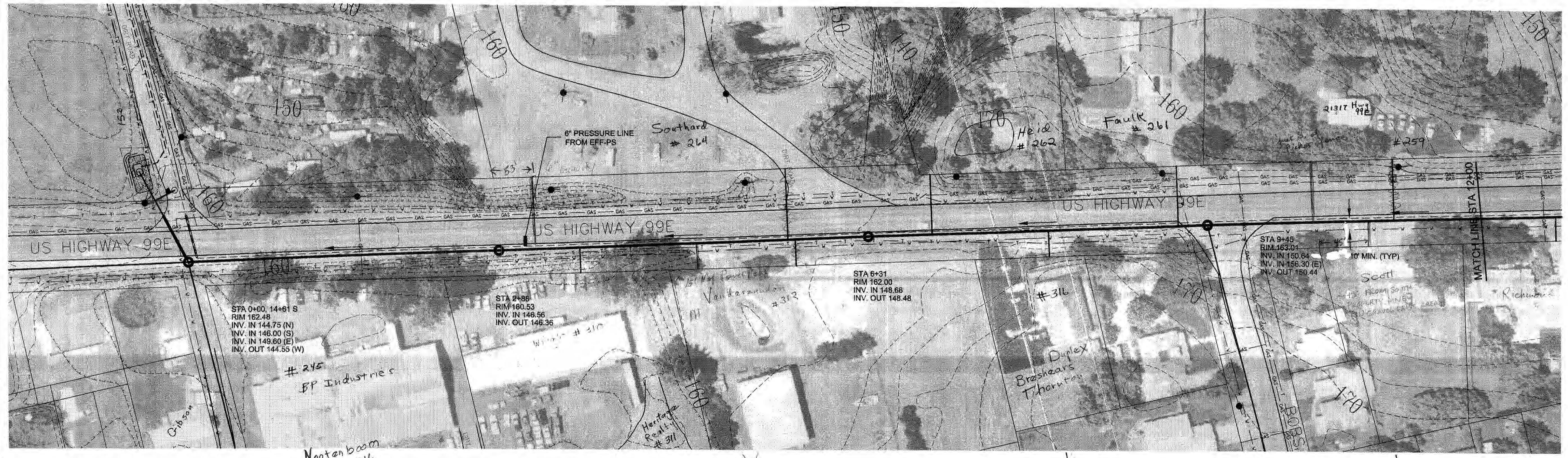
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| REB | | 2 | 1" = 50'-0" |
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2



PR HWY. 99E
 3 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PL HWY. 99E
 3 SCALE: 1" = 50'-0"



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 telephone (503) 650-4919 fax (503) 650-4935

CITY OF AURORA
 MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

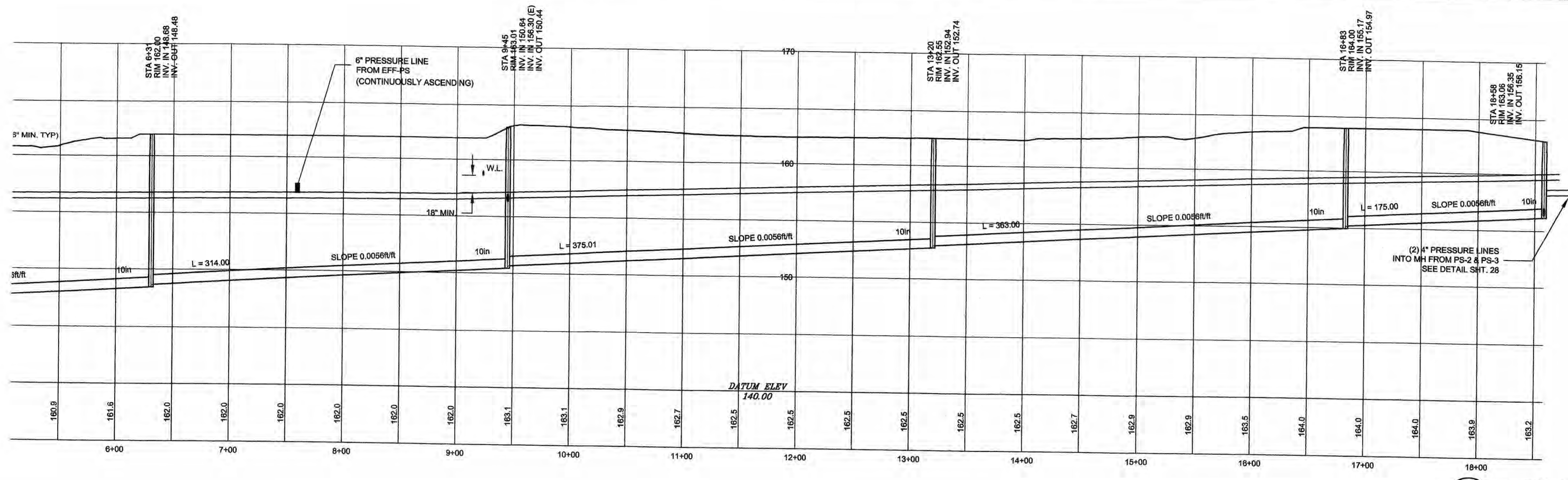
WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
HIGHWAY 99E

REGISTERED PROFESSIONAL ENGINEER
 No. 14715
 DAVID M. THOMAS
 DREGDN
 DEC 7 1988
 EXPIRES 6-30-00

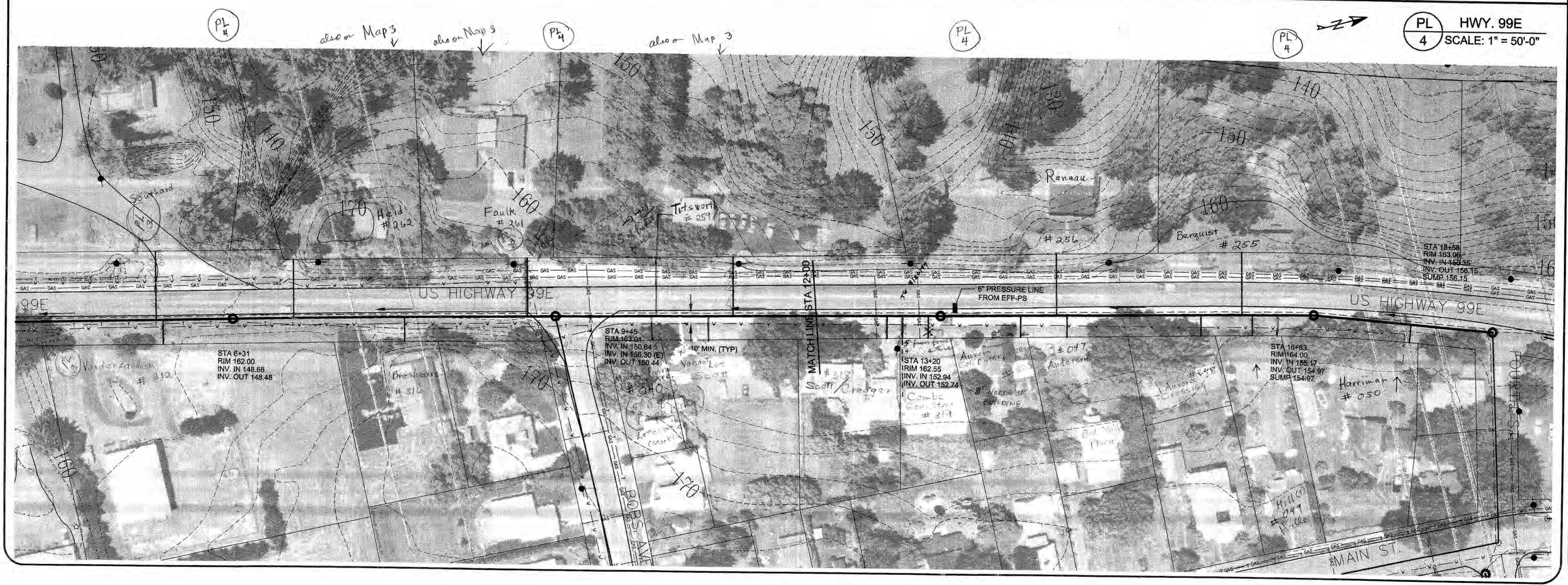
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SCALE see sheet
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3



PR HWY. 99E
4 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 5'-0"



PL HWY. 99E
4 SCALE: 1" = 50'-0"

③ & ④ duplicate 6 & 8 Annotations
- change on both -

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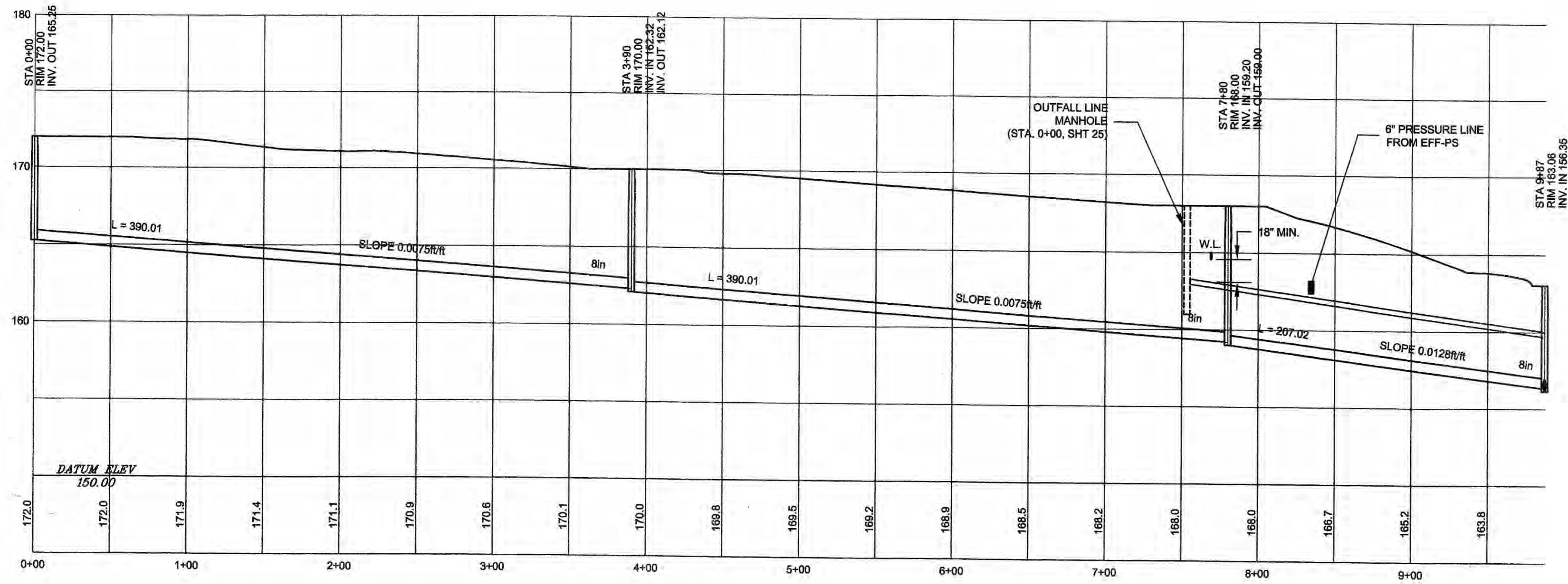
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
HIGHWAY 99E

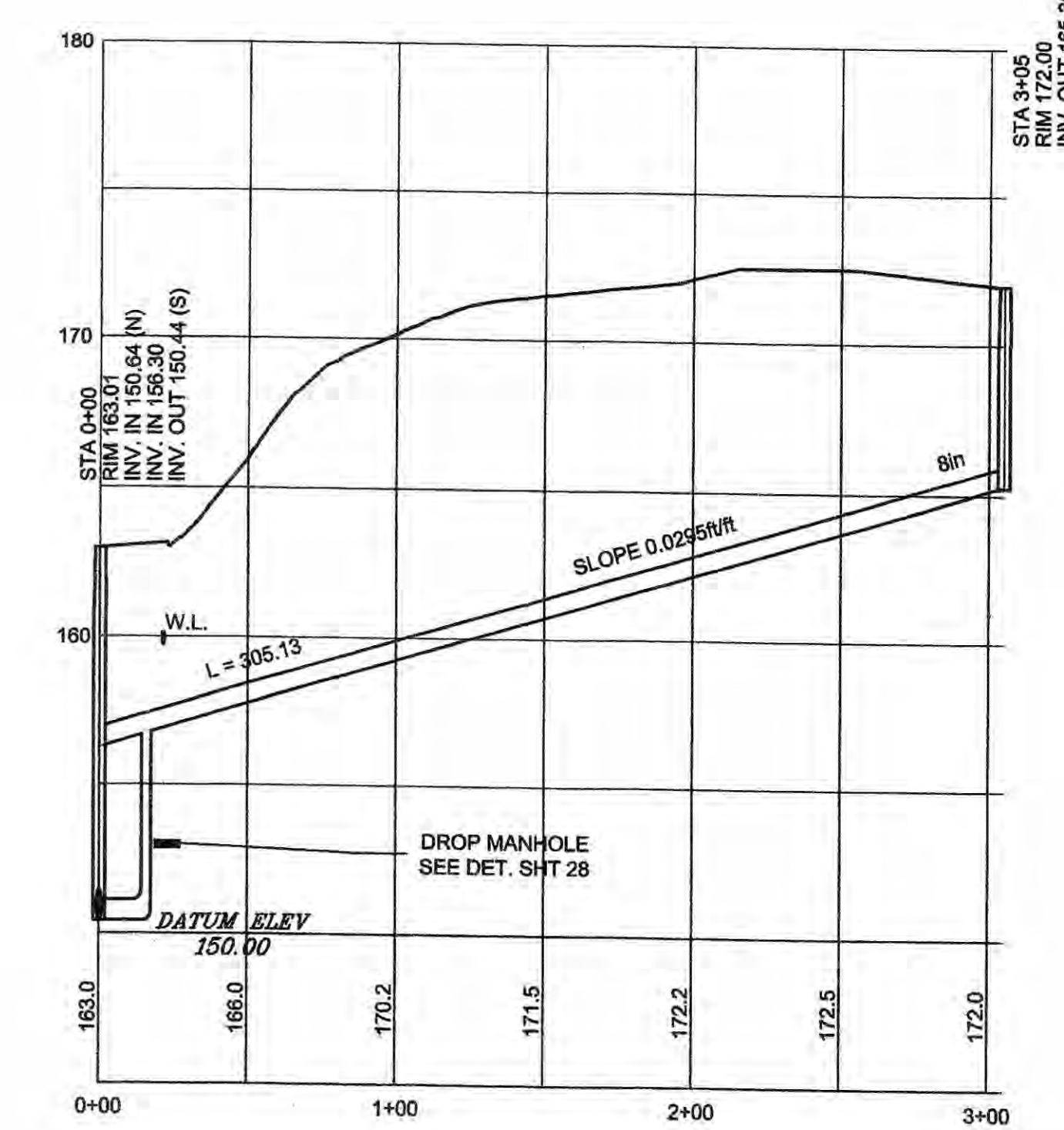
REGISTERED PROFESSIONAL ENGINEER
No. 14715
OREGON
DEC 7 1989
DAVID M. THOMAS
EXPIRES 9-30-00

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JOB NO. 9706



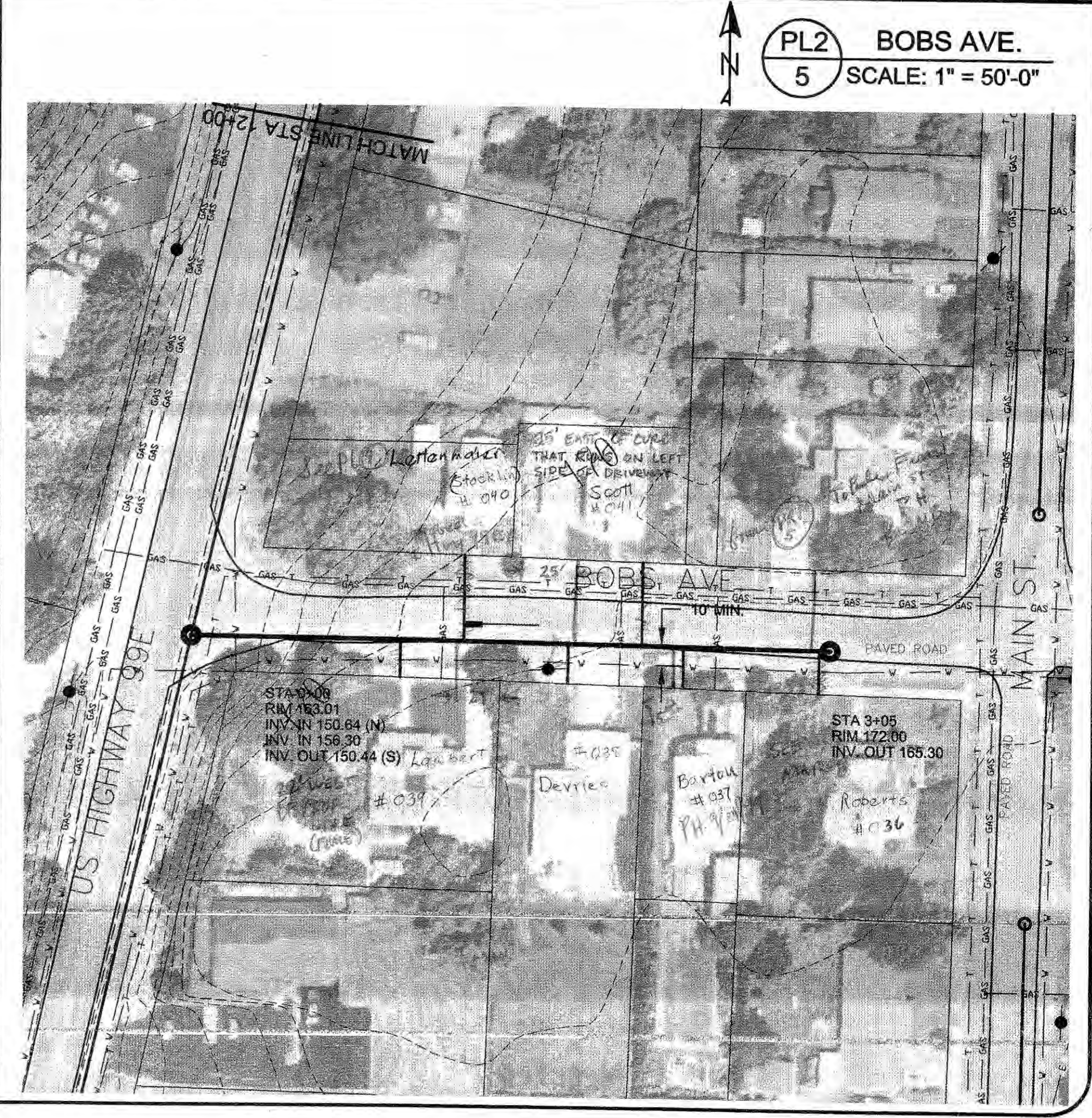
PR1 MAIN ST.
 5 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



PR2 BOBS AVE.
 5 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



PL1 MAIN ST.
 5 SCALE: 1" = 50'-0"



PL2 BOBS AVE.
 5 SCALE: 1" = 50'-0"

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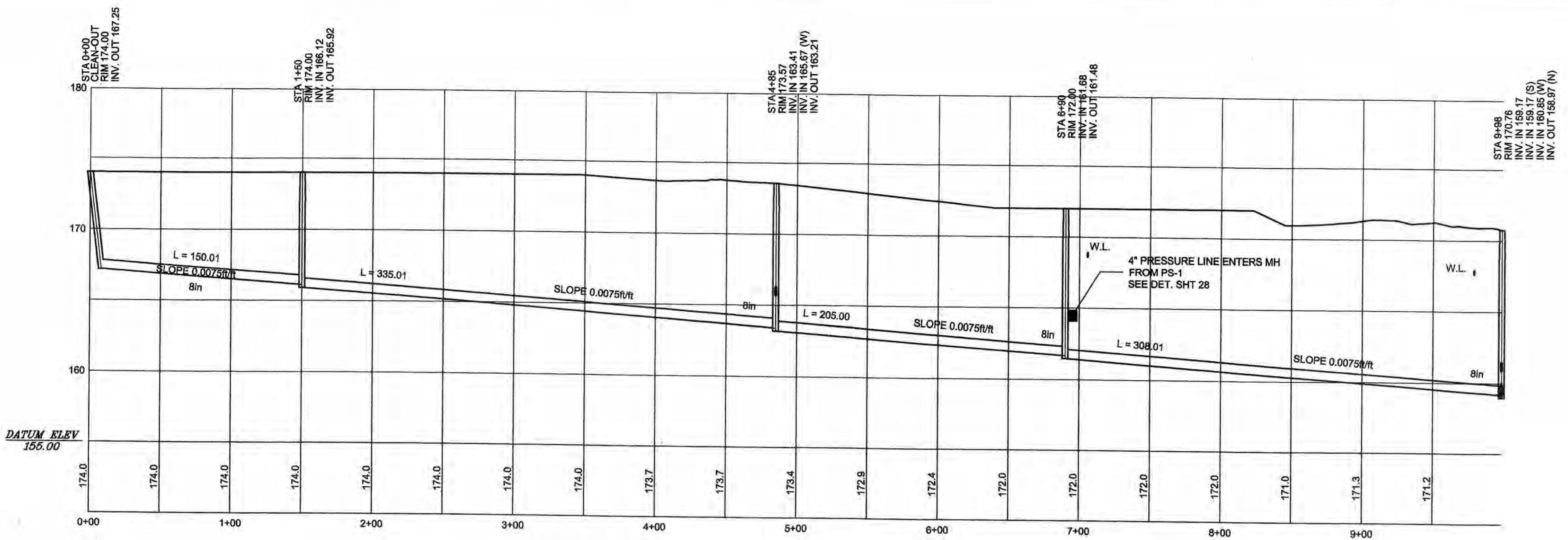
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 MAIN STREET & BOBS AVE.

REGISTERED PROFESSIONAL ENGINEER
 No. 14715
 DAVI
 DEC 7 1989
 DAVID M THOMAS
 EXPIRES 8-30-00

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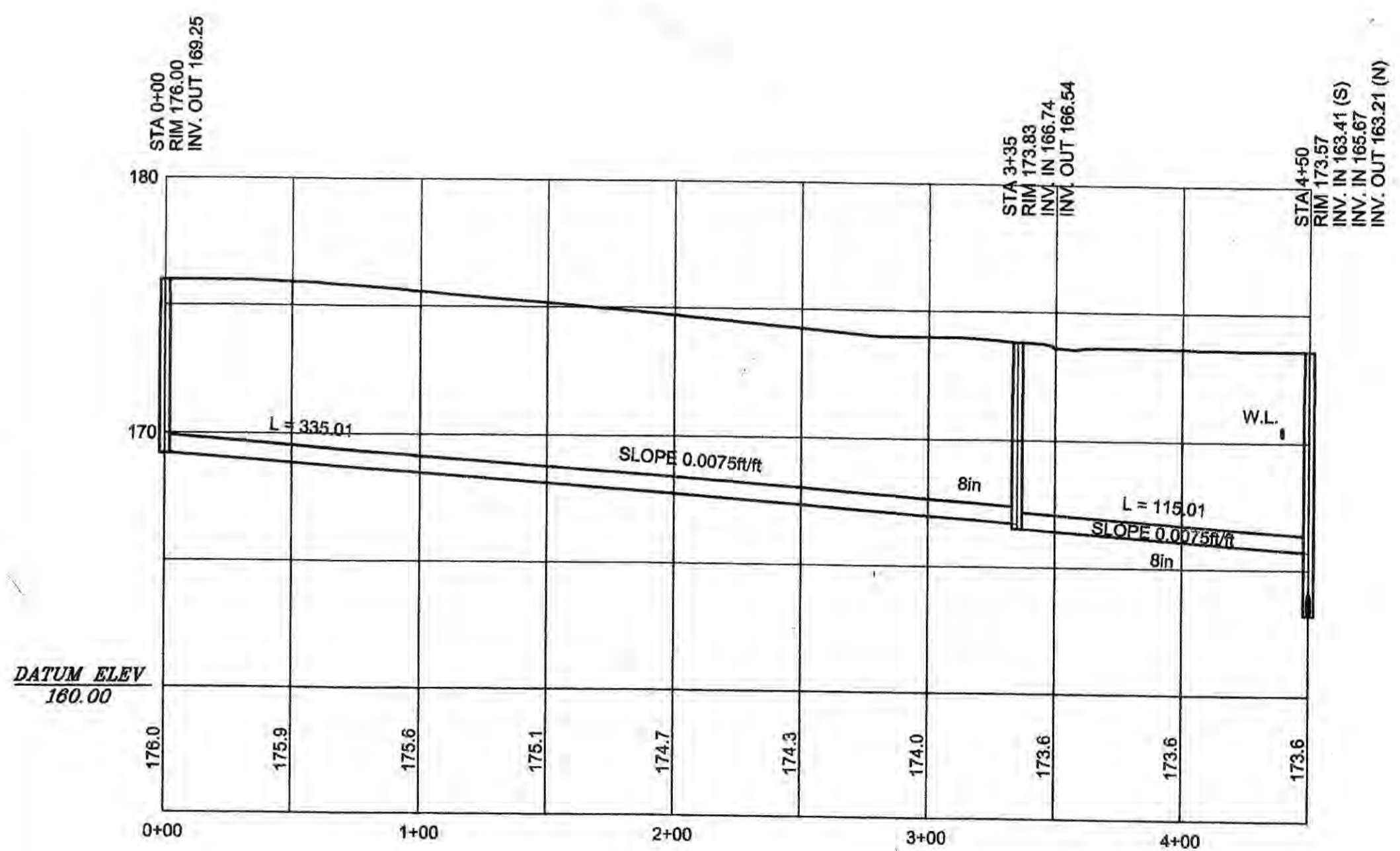
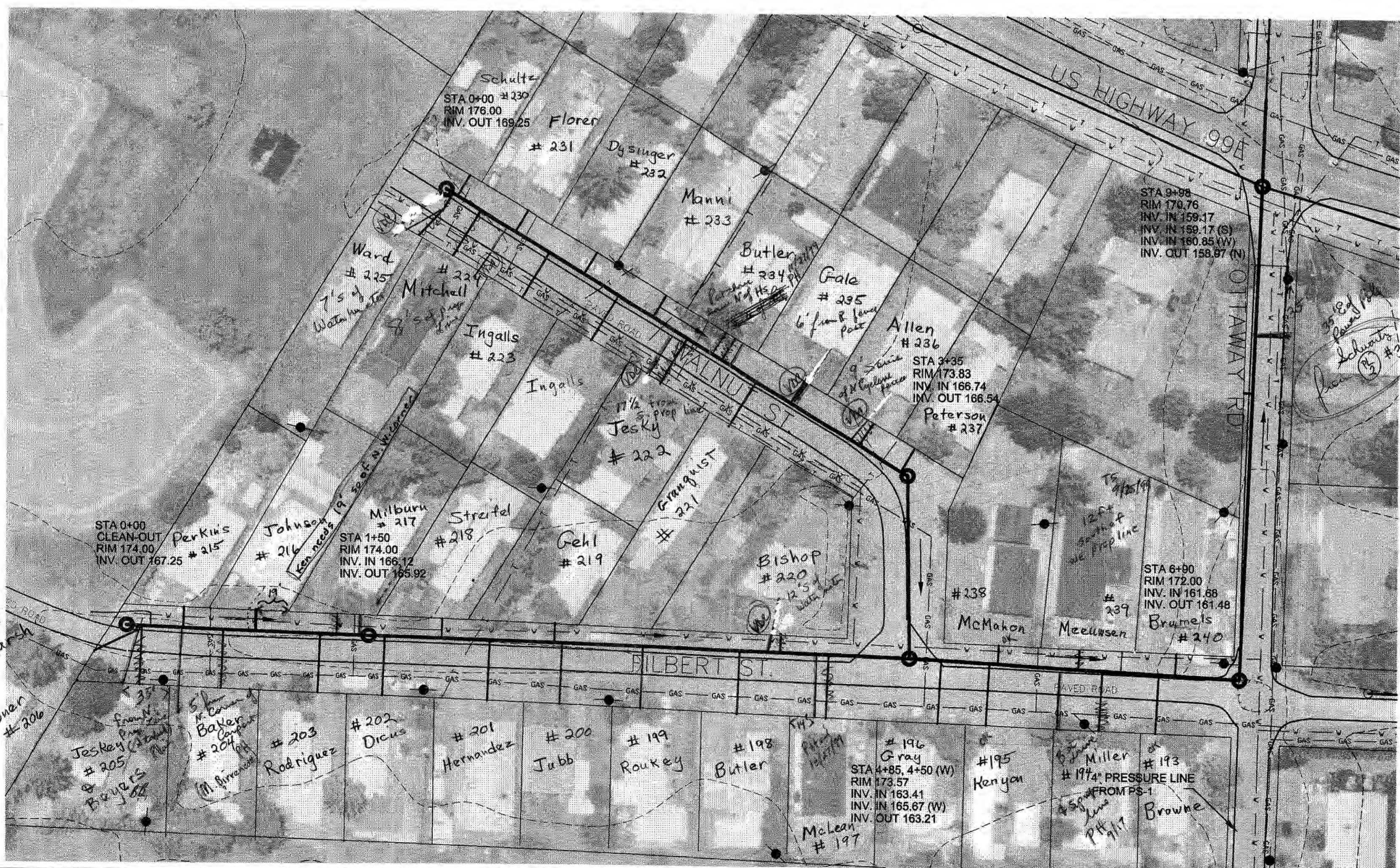
SCALE see sheet
 DESIGNED A REB
 CHECKED
 JOB NO. 9706



PR1 FILBERT ST.
6 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PR2 WALNUT ST.
6 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PL FILBERT ST. & WALNUT ST.
6 SCALE: 1" = 50'-0"



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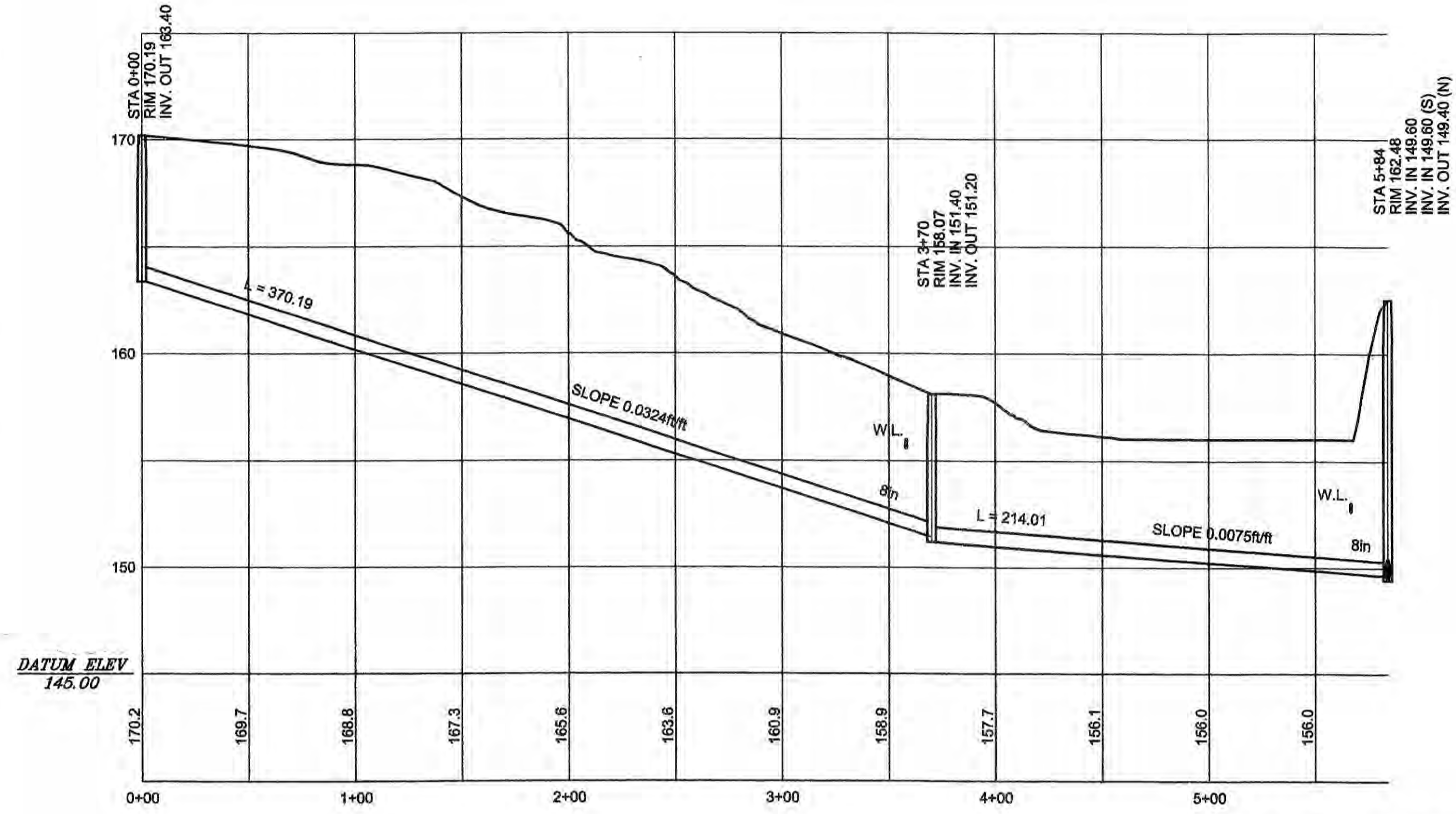
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 FILBERT ST. & WALNUT ST.

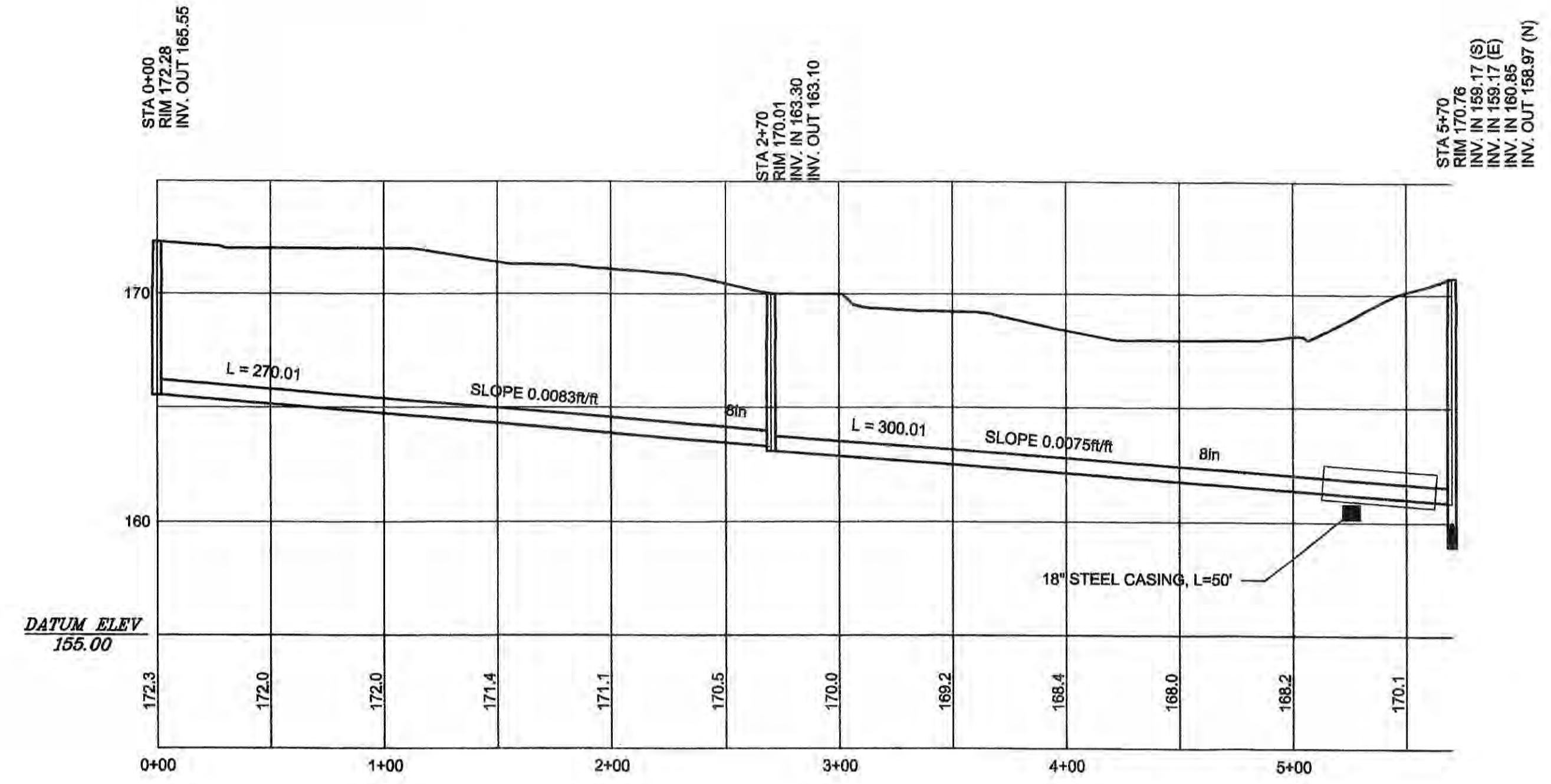
REGISTERED PROFESSIONAL ENGINEER
 No. 14715
 OREGON
 DEC 7 1988
 DAVID M. THOMAS
 EXPIRES 9-9-00

| REVISIONS | BY | DATE |
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SCALE: see sheet
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 JOB NO.: 9706



PR1 N. FILBERT ST.
 7 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



PR2 W. OTTAWAY RD.
 7 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PL1 N. FILBERT ST.
 7 SCALE: 1" = 50'-0"

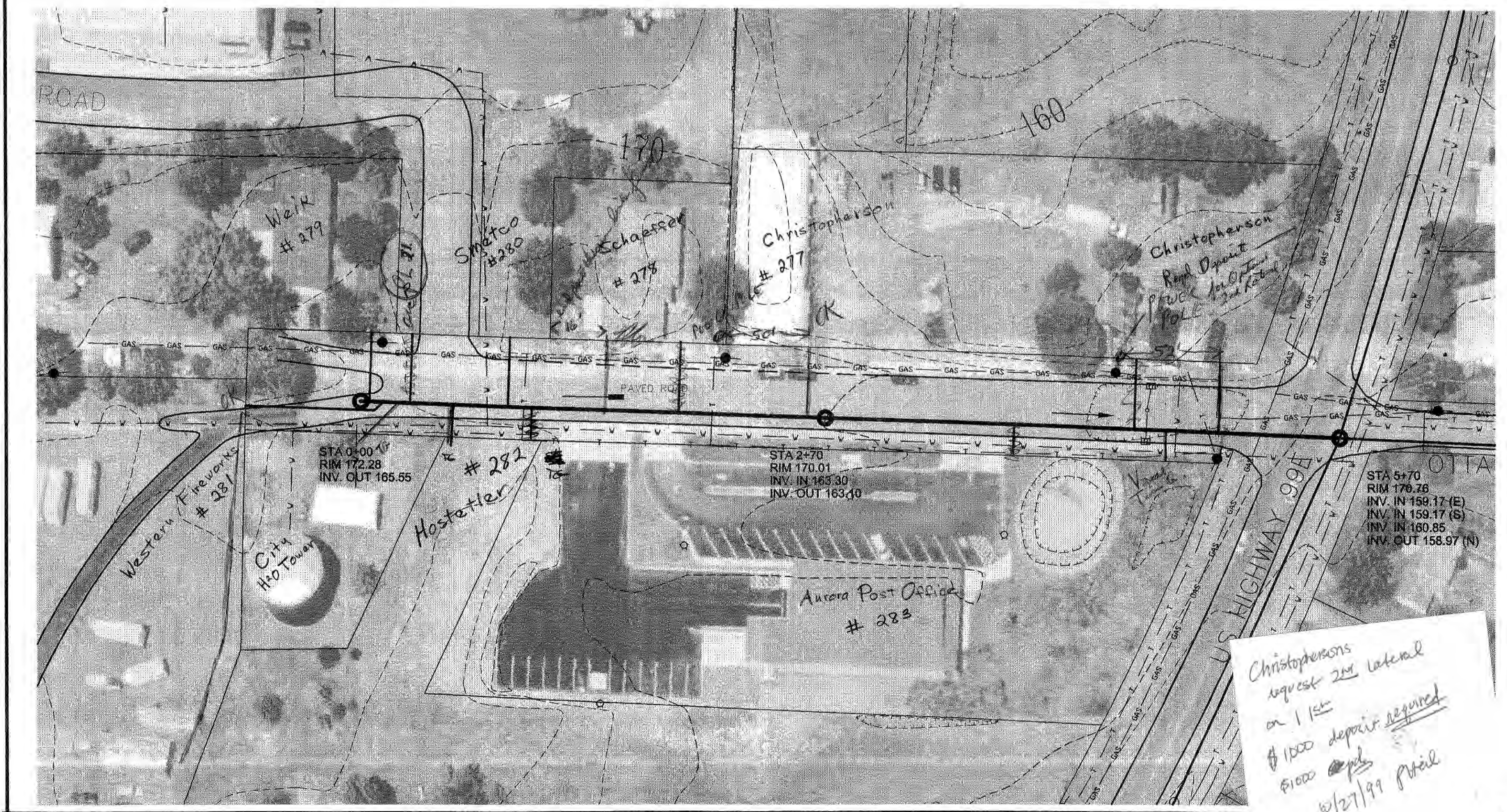


*Unresolved:
 Nootenboon (PL1)
 which of 2 laterals*

*Needs narrow
 for his private
 widening lateral*

*He appears
 invited to one
 lateral
 ← Nootenboon
 may change to one*

PL2 W. OTTAWAY RD.
 7 SCALE: 1" = 50'-0"



*Christophersons
 request 2nd lateral
 on 1st
 \$1000 deposit required
 1/27/99 Phil*

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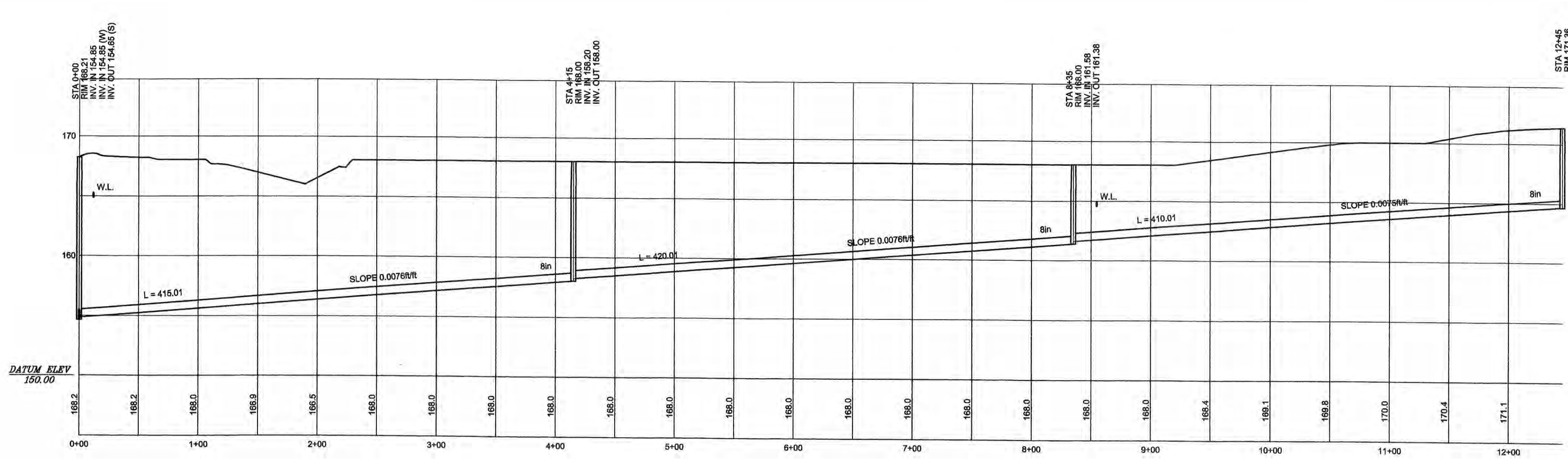
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 N. FILBERT STREET &
 W. OTTAWAY ROAD



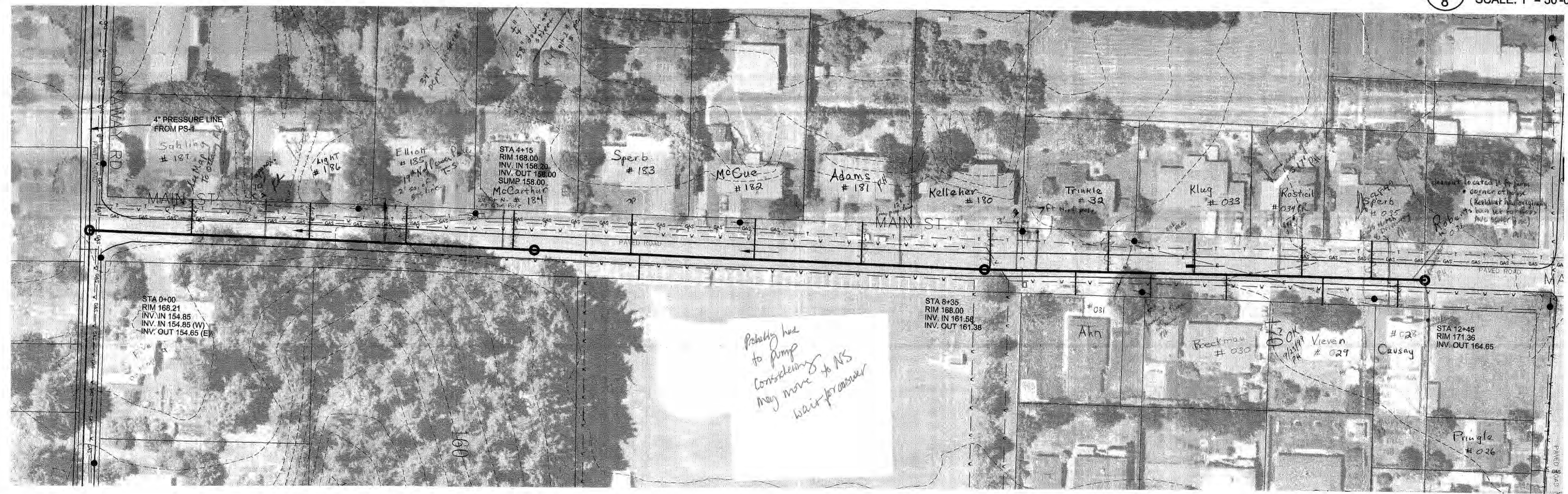
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| JOB NO. | 9706 |



PR 8 MAIN ST.
 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PL 8 MAIN ST.
 SCALE: 1" = 50'-0"



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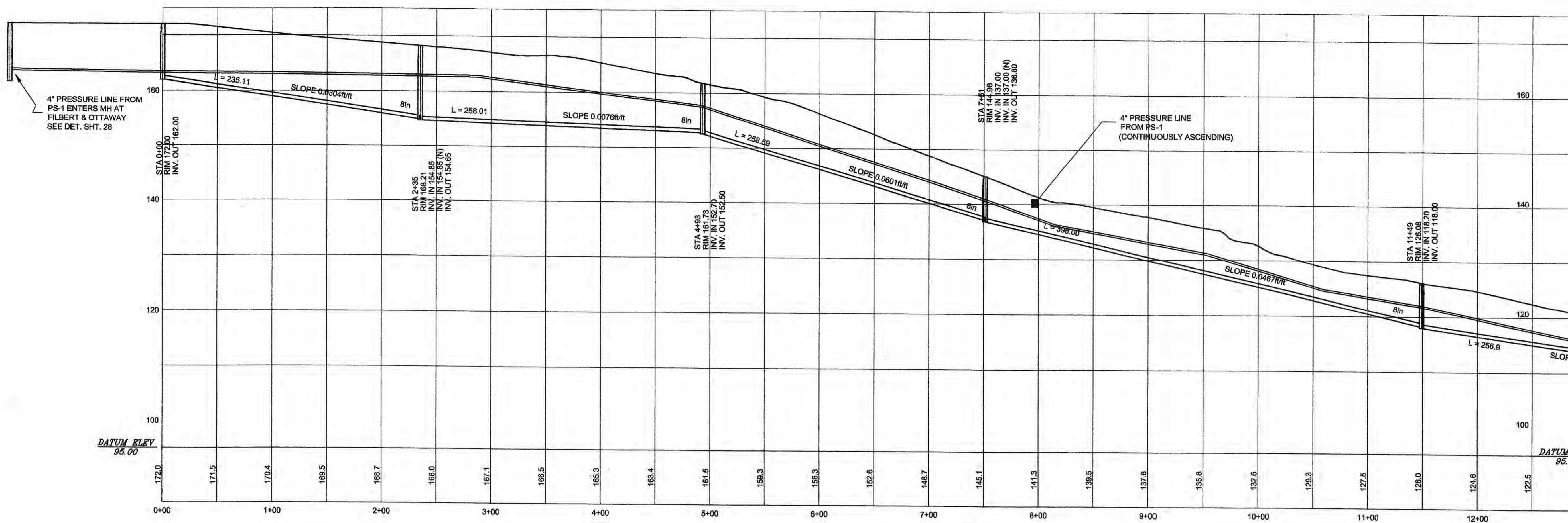
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
MAIN STREET

REGISTERED PROFESSIONAL ENGINEER
 No. 14715
 OREGON
 DEC 7 1988
 DAVID M THOMAS
 DPW 8-00-00

| REVISIONS | DATE |
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SCALE: see sheet
 OF 11"
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 JOB NO. 9706



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x.lower.freds

PR OTTAWAY RD.
9 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"

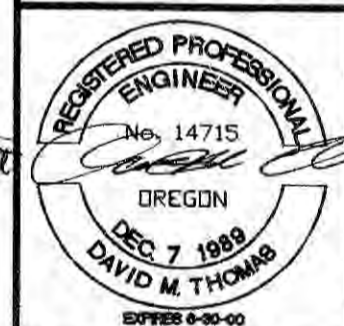
PL OTTAWAY RD.
9 SCALE: 1" = 50'-0"
4" to 100' to 100'



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engineers, planners, construction managers
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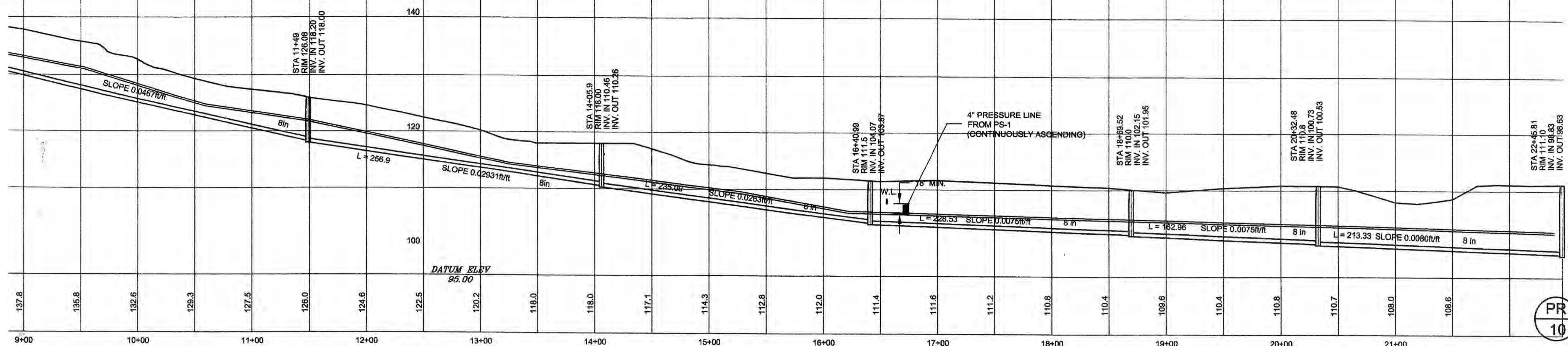
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
OTTAWAY ROAD



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SCALE see sheet
DESIGNED REB
CHECKED DMT
JOB NO. 9706



PR 10 OTTAWAY RD.
 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 10'-0"

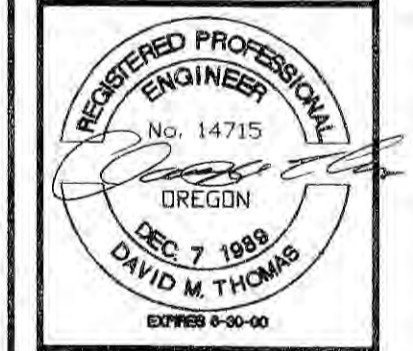


PL 10 OTTAWAY RD.
 SCALE: 1" = 50'-0"

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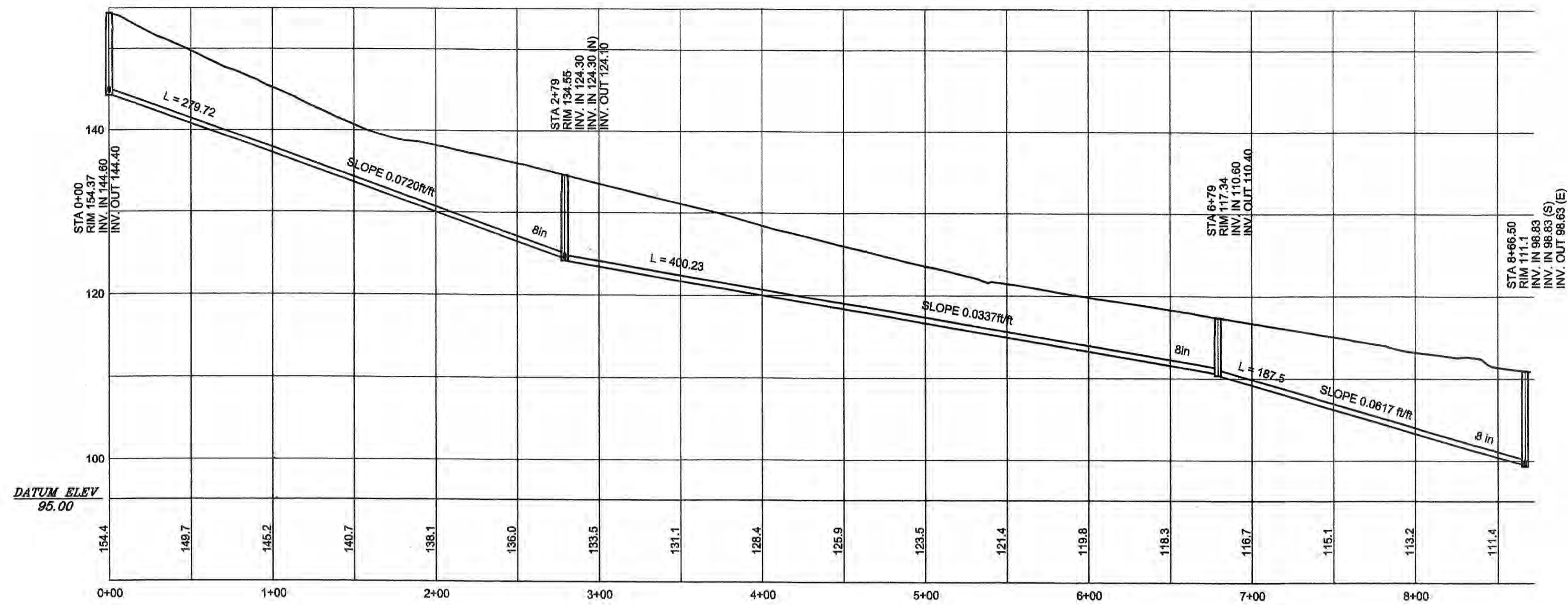
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
**OTTAWAY ROAD
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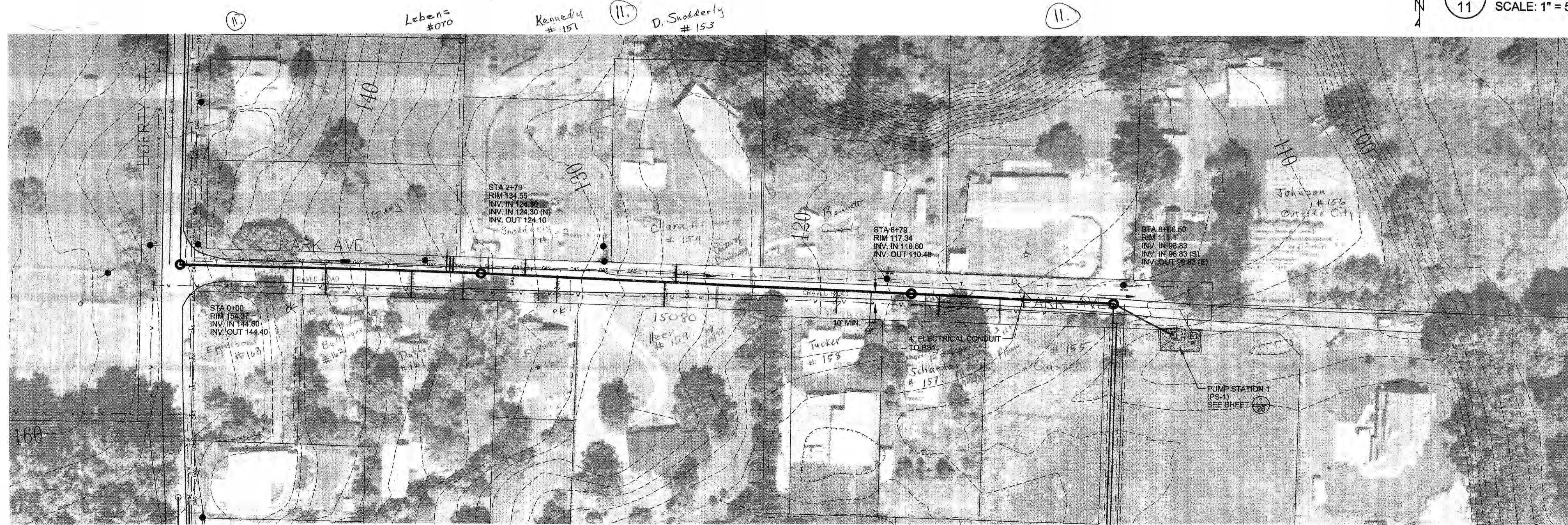
SCALE see sheet
 DESIGNED REB
 CHECKED DMT
 JOB NO. 9706



*Bennett
Lateral
Outside
City!*

PR 11 PARK AVE.
HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"

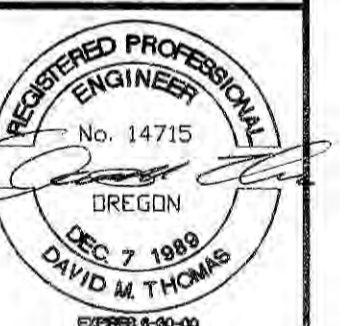
PL 11 PARK AVE.
SCALE: 1" = 50'-0"



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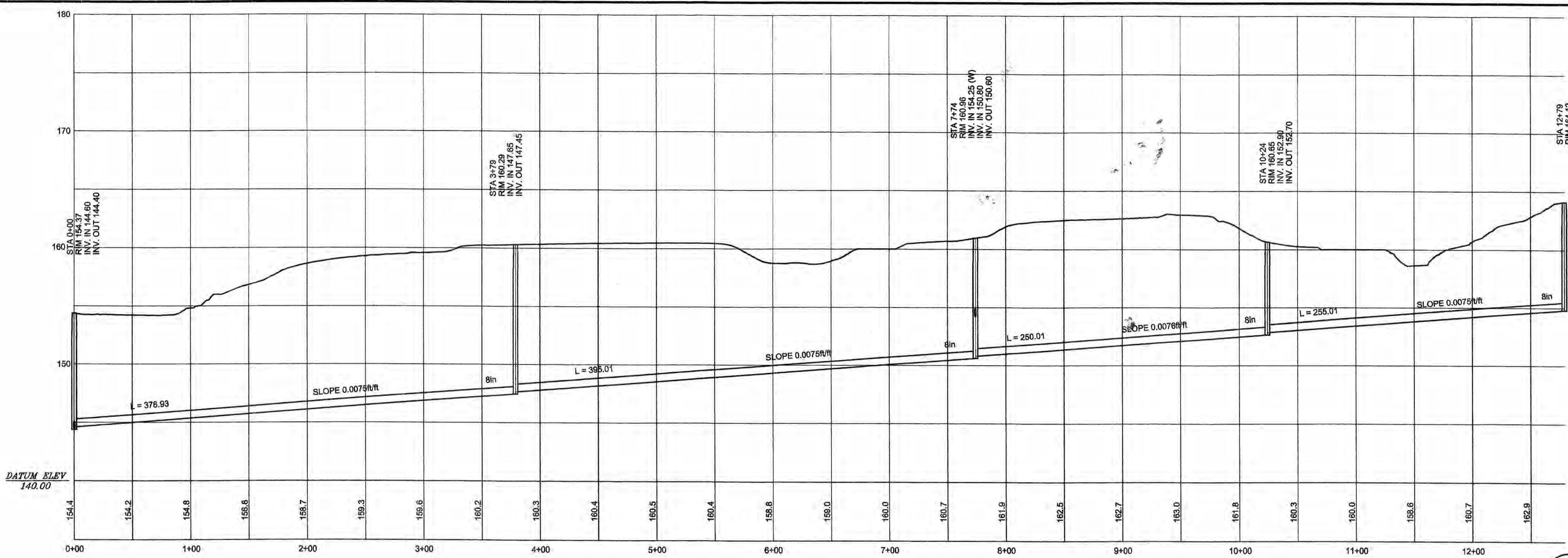
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
PARK AVENUE



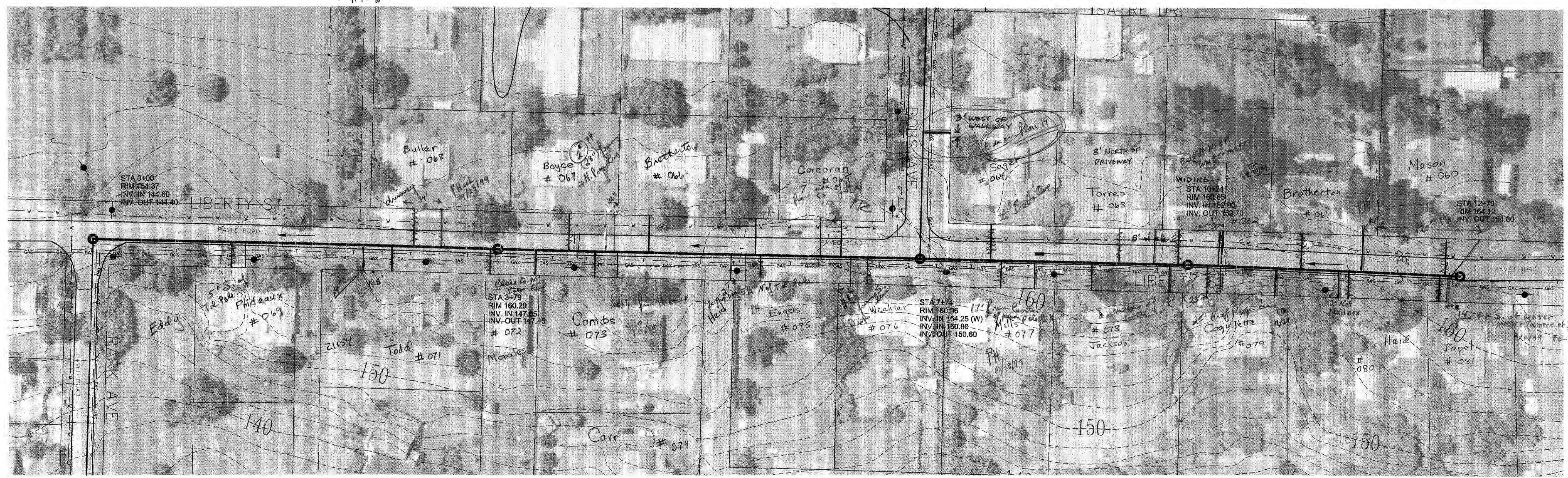
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SCALE see sheet
DESIGNED REB
CHECKED DMT
JOB NO. 9706



PR LIBERTY ST.
 12 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

PL LIBERTY ST.
 12 SCALE: 1" = 50'-0"



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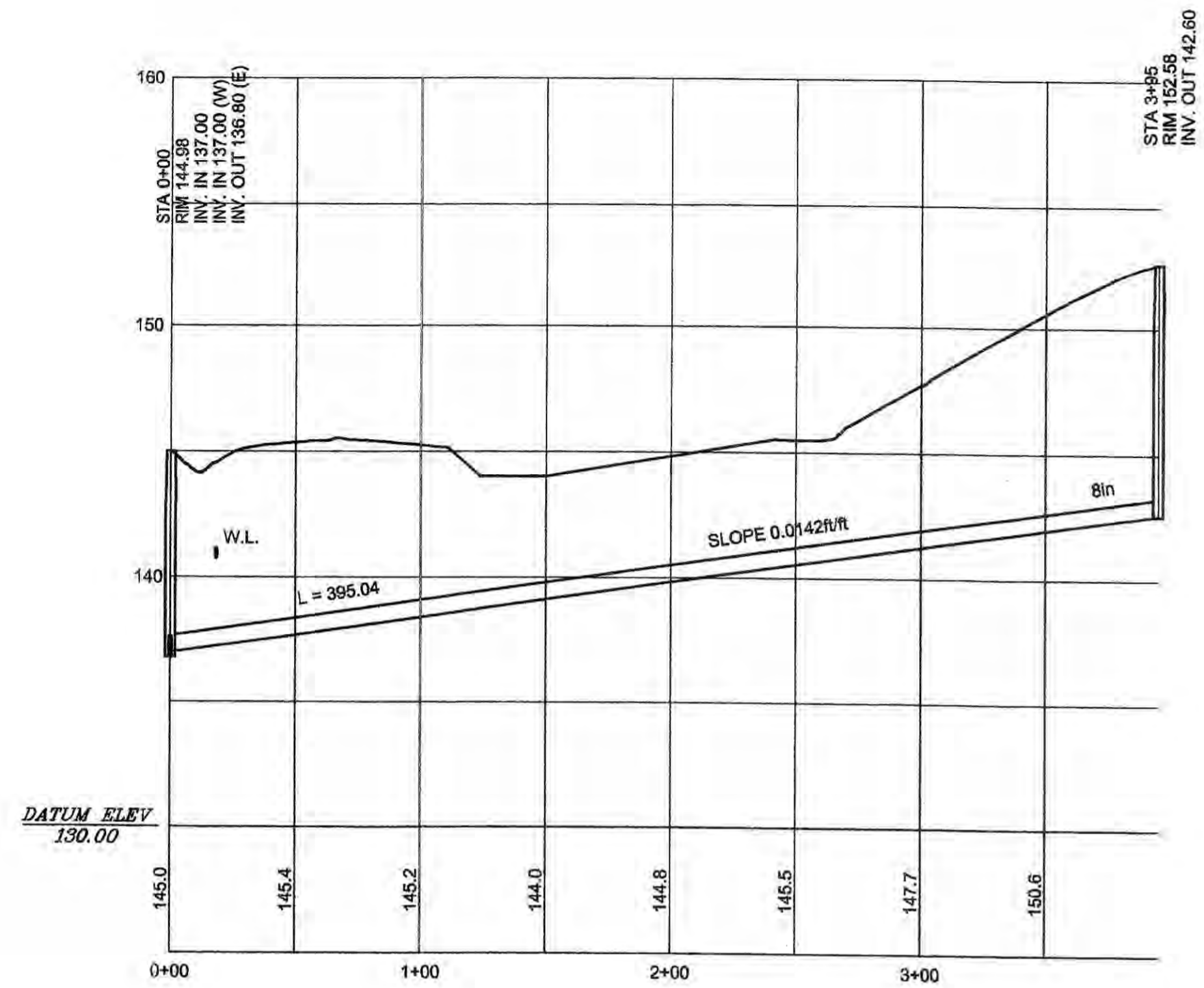
CITY OF AURORA
 MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
LIBERTY STREET

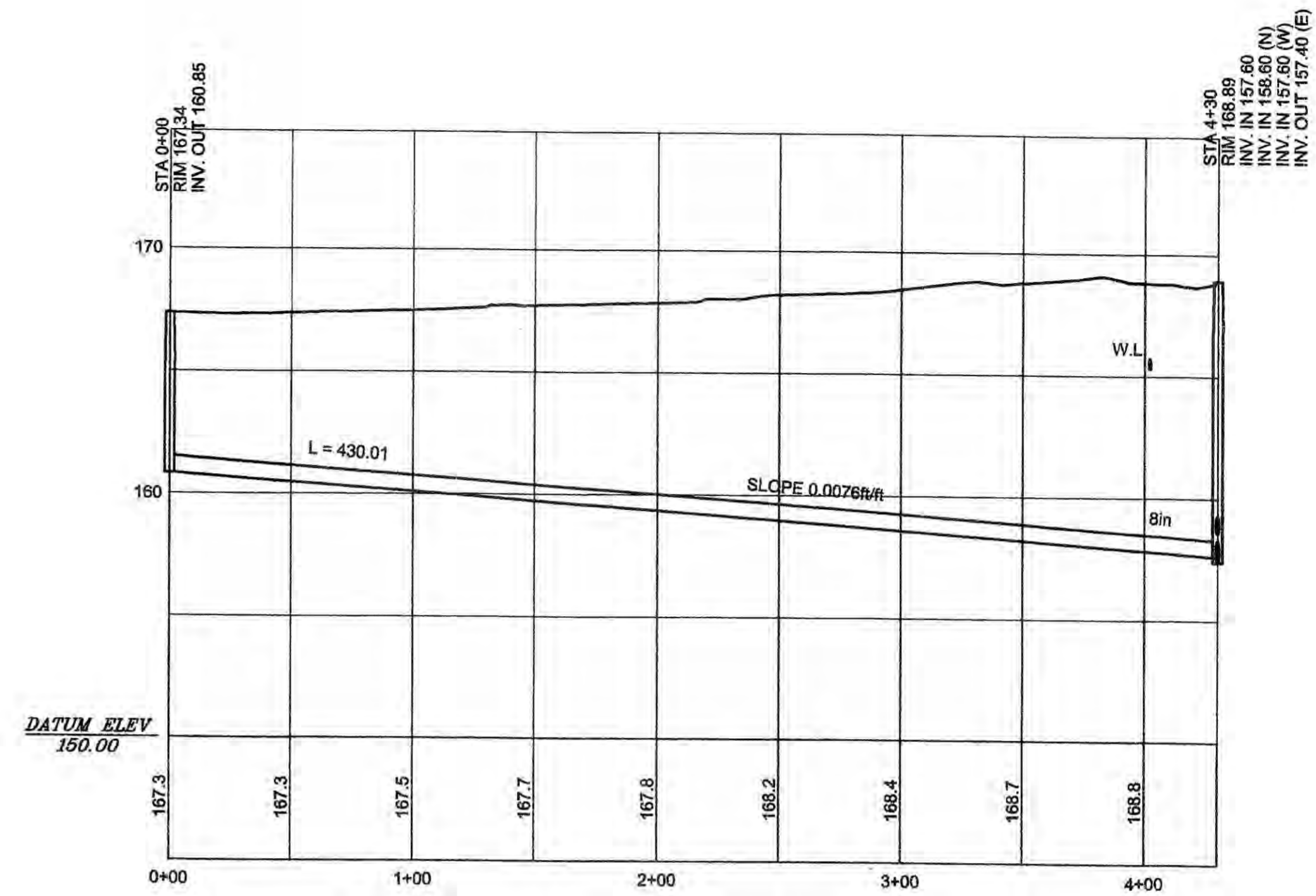
REGISTERED PROFESSIONAL
 ENGINEER
 No. 14715
 Oregon
 DEC 7 1989
 DAVID M THOMAS
 DISTRICT 6-20-00

| REVISIONS | DATE |
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SCALE see sheet
 DESIGNED A REB
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PR1 S. LIBERTY ST.
13 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 5'-0"



PR2 SAYRE DR.
13 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 5'-0"



PL1 S. LIBERTY ST.
13 SCALE: 1" = 50'-0"

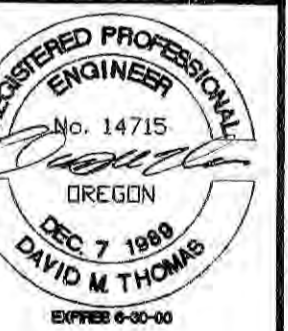


PL2 SAYRE DR.
13 SCALE: 1" = 50'-0"

BST, Inc.
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west linn, oregon 97068
telephone (503) 650-4919 fax (503) 650-4935

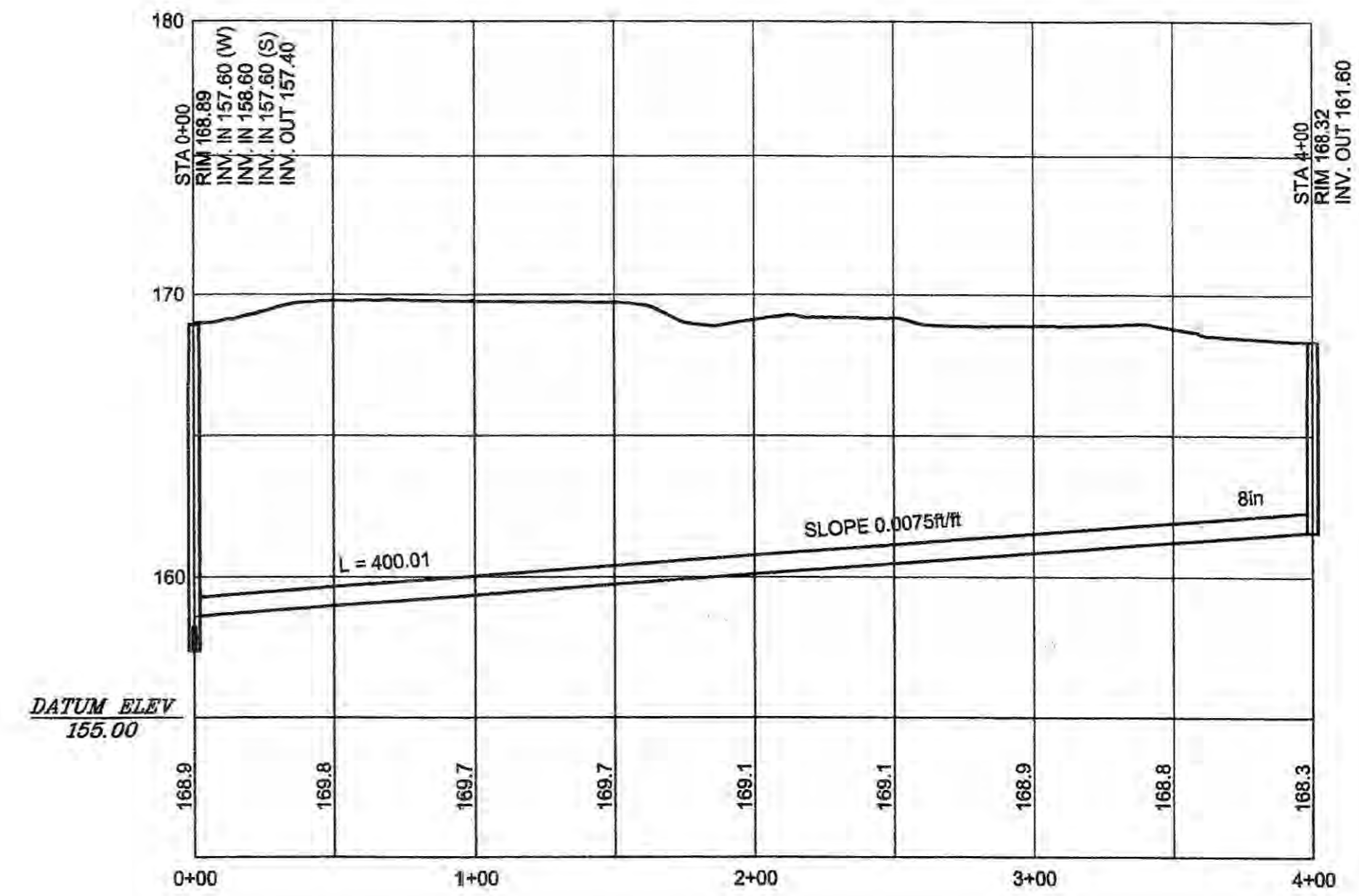
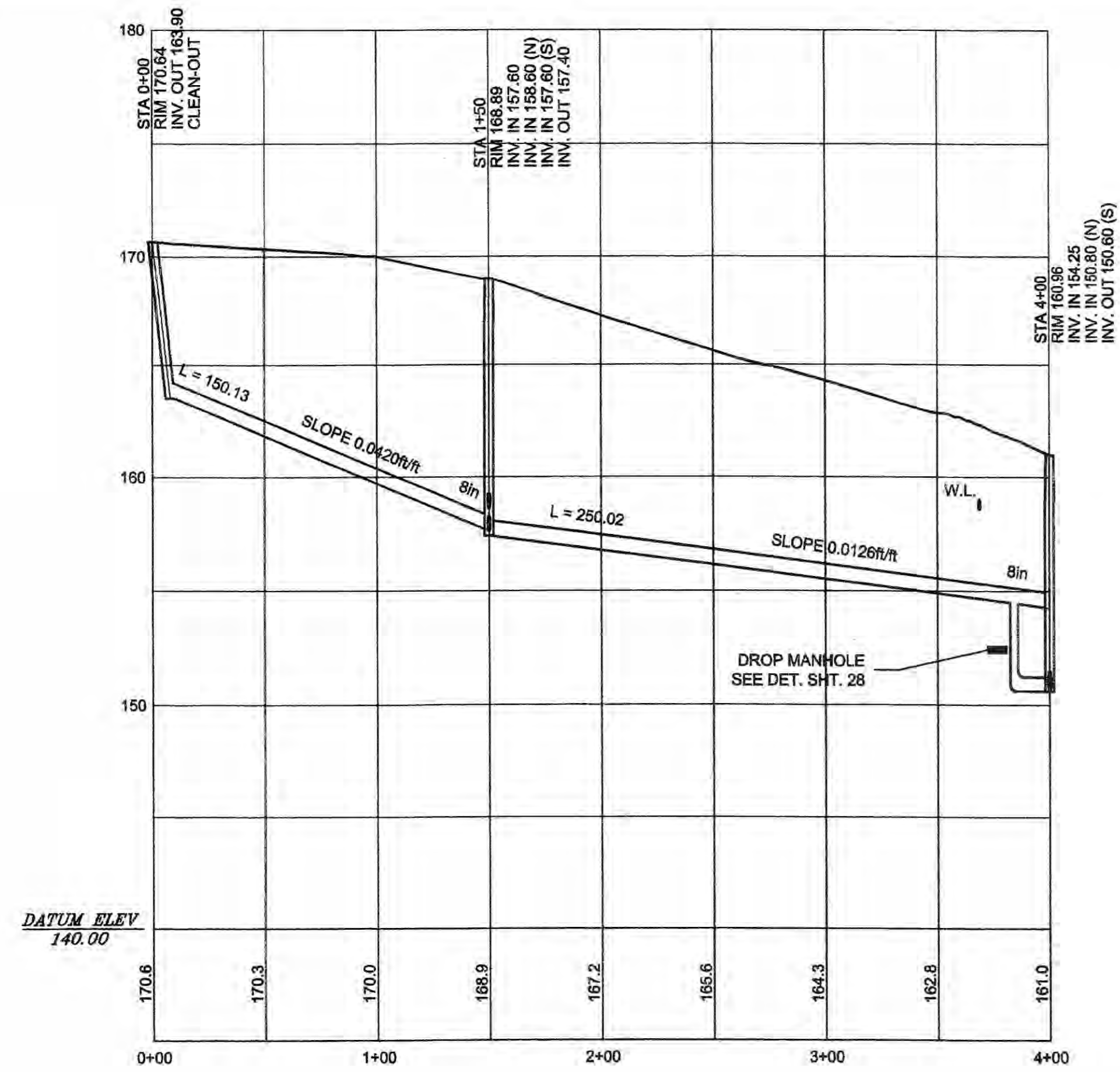
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
S. LIBERTY ST. & SAYRE DR.



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SCALE see sheet
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JOB NO. 9706



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 west linn, oregon 97068
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CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

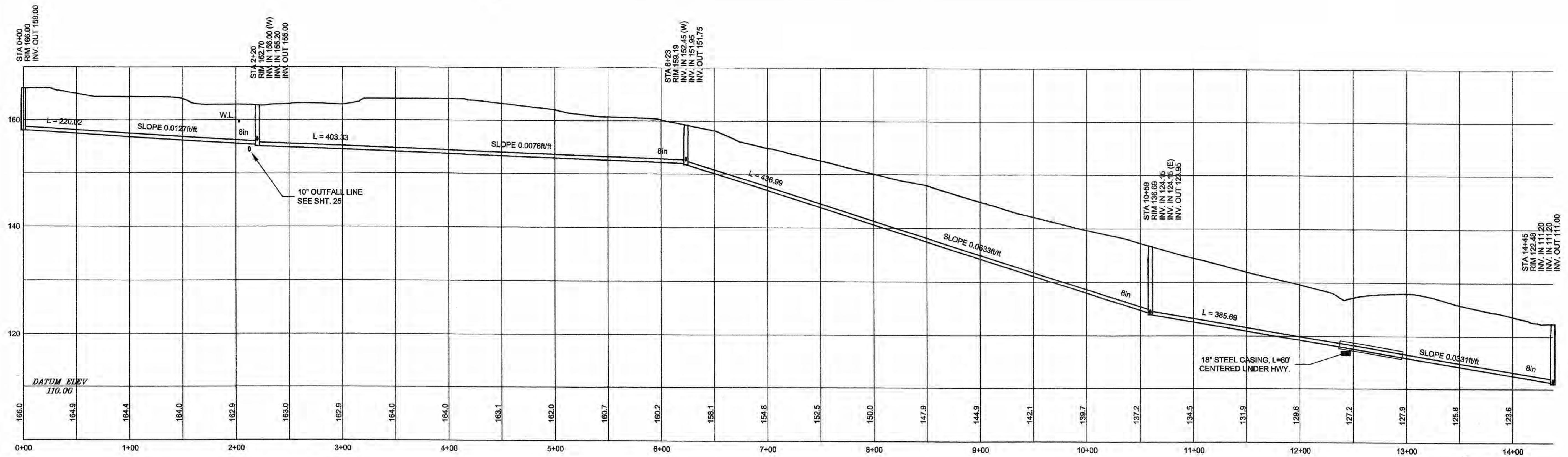
WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
BOBS AVE. & SAYRE DR.

REGISTERED PROFESSIONAL
 ENGINEER
 No. 14715
 Oregon
 DEC 7 1998
 DAVID M. THOMAS
 0208 6-10-00

| REVISIONS | DATE | BY |
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SCALE see sheet of 1"

DESIGNED: REB
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 JOB NO. 9706



PR N. LIBERTY ST.
 15 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 10'-0"

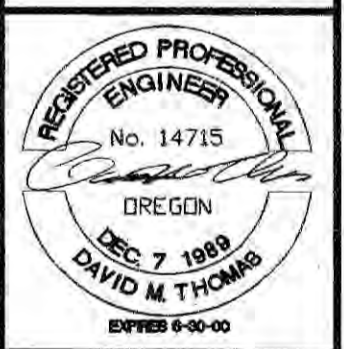


PL N. LIBERTY ST.
 15 SCALE: 1" = 50'-0"

BST, Inc.
 engineers, planners, construction managers
 4025 ridge lane
 west linn, oregon 97068
 telephone (503) 650-4919 fax (503) 650-4935

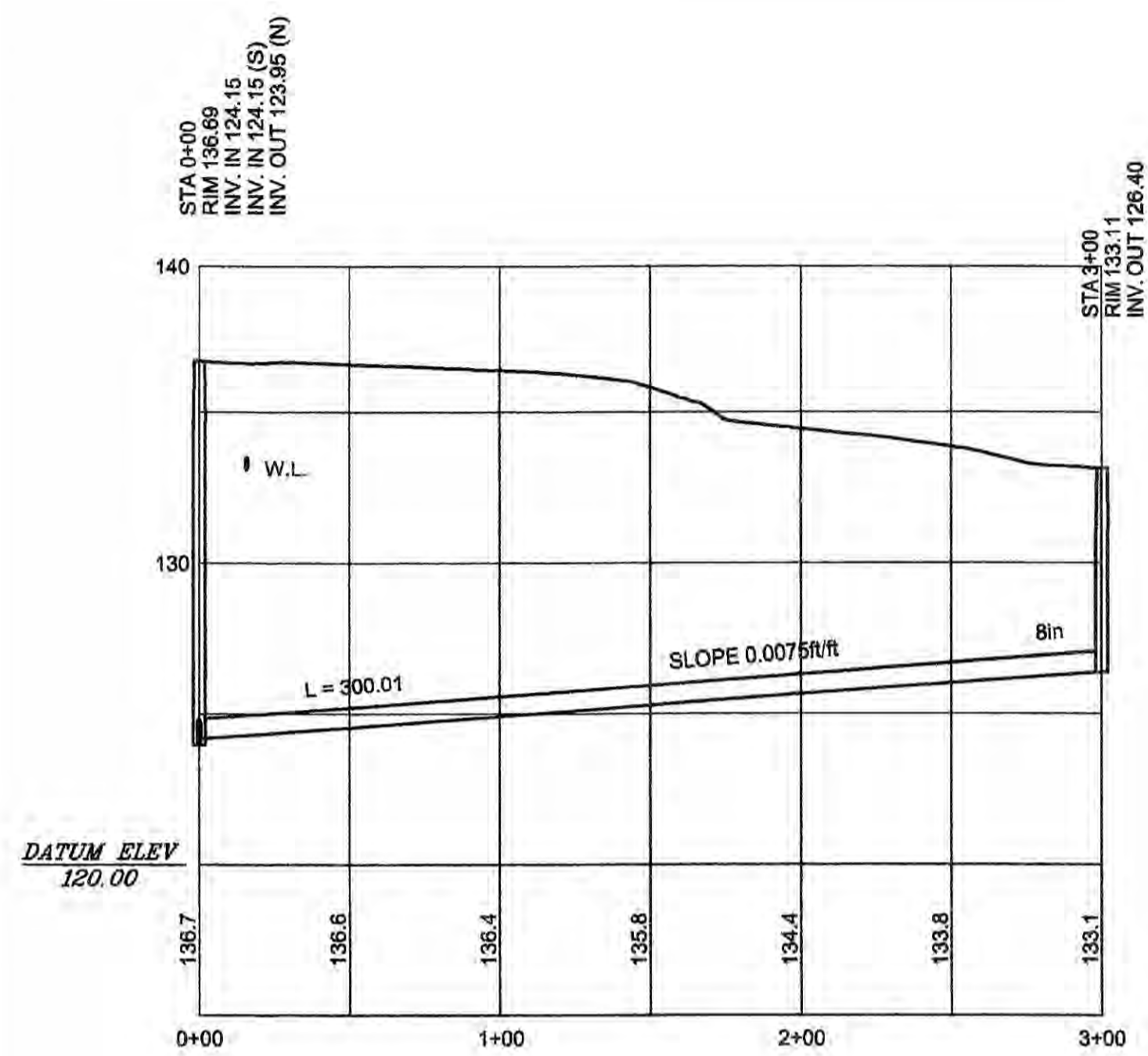
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 N. LIBERTY ST.

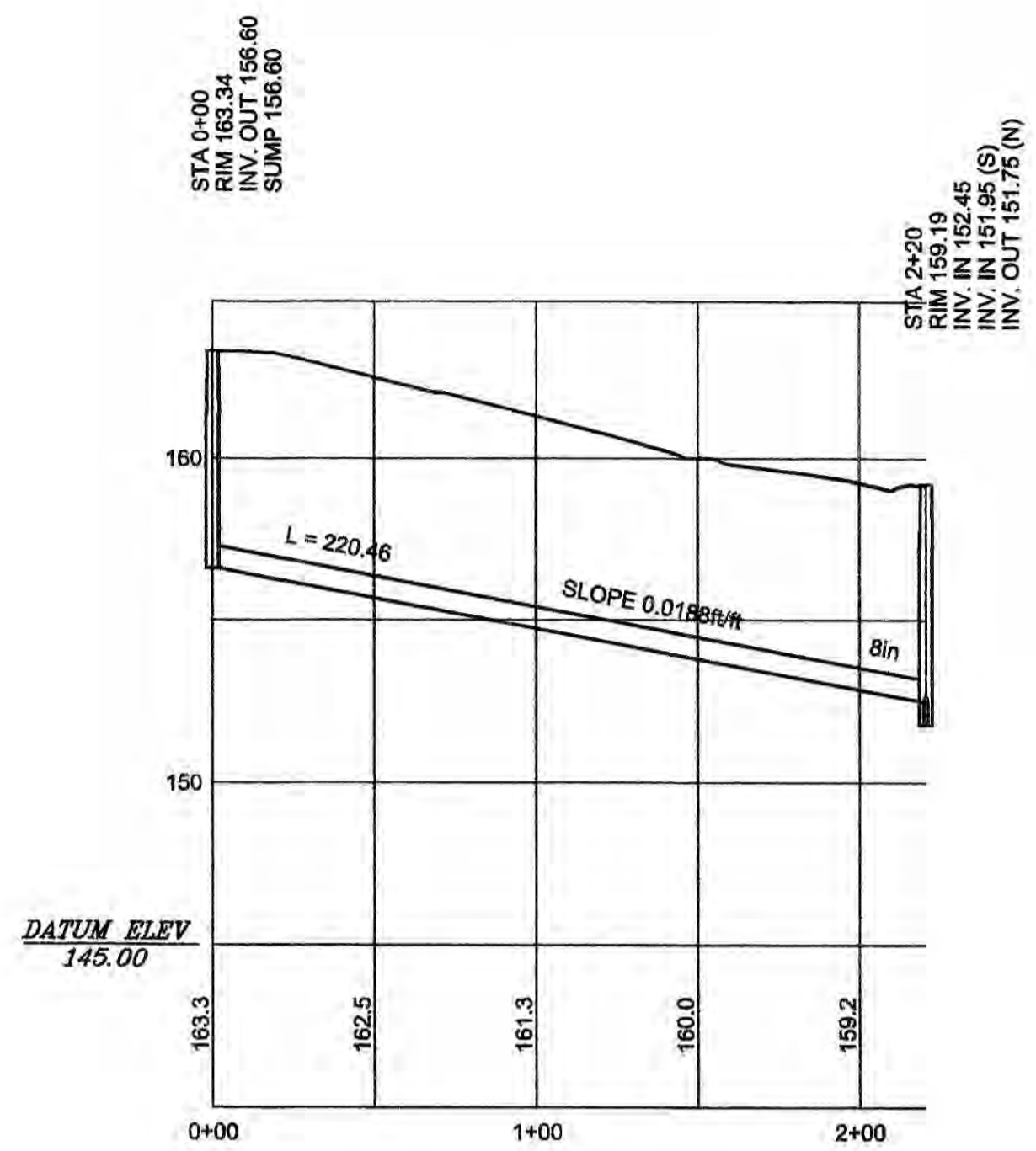


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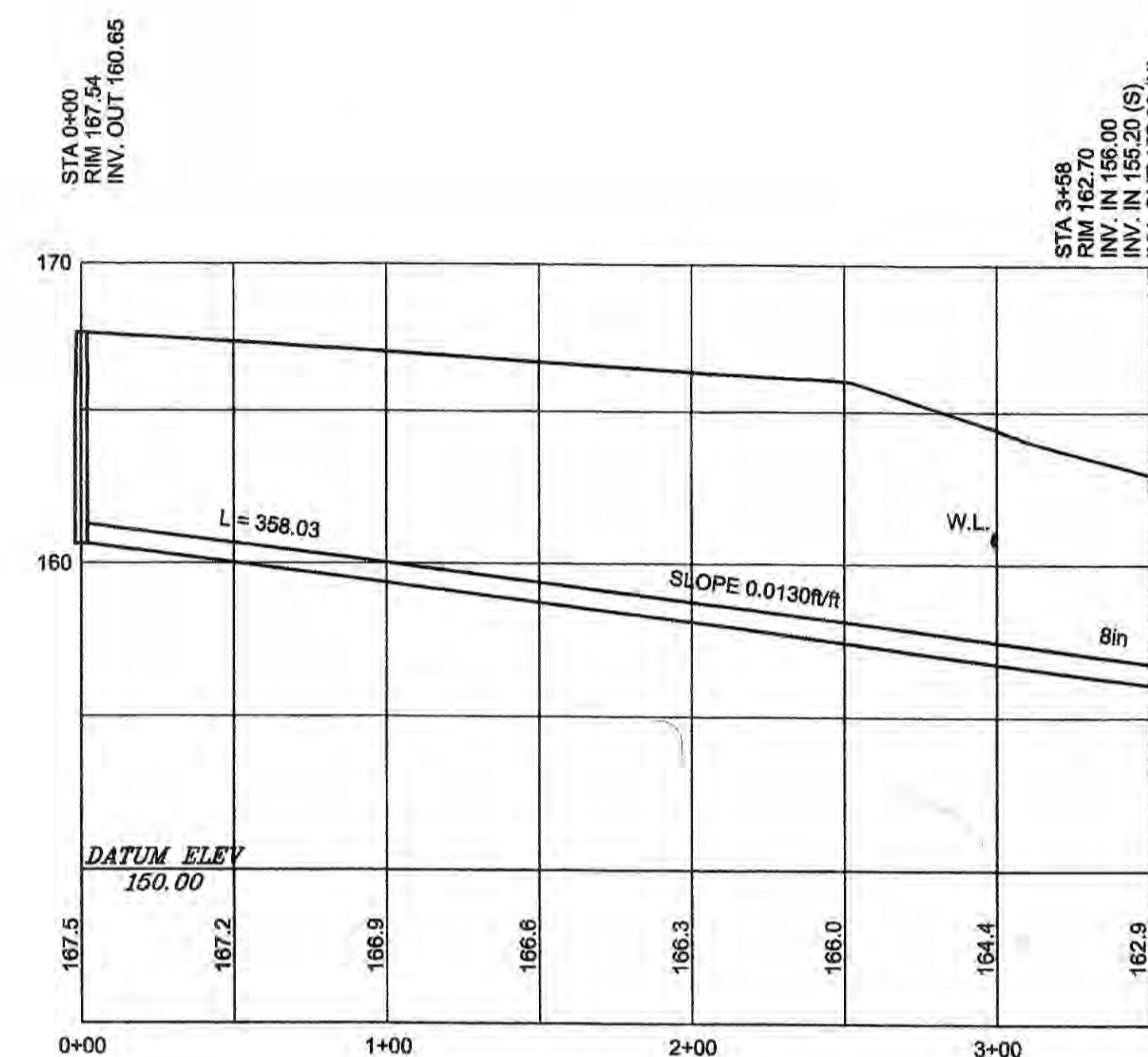
SCALE see sheet
 DESIGNED A REB
 CHECKED DMT
 JOB NO. 9706



PR1 2ND. STREET
 16 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



PR2 3RD. STREET
 16 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"

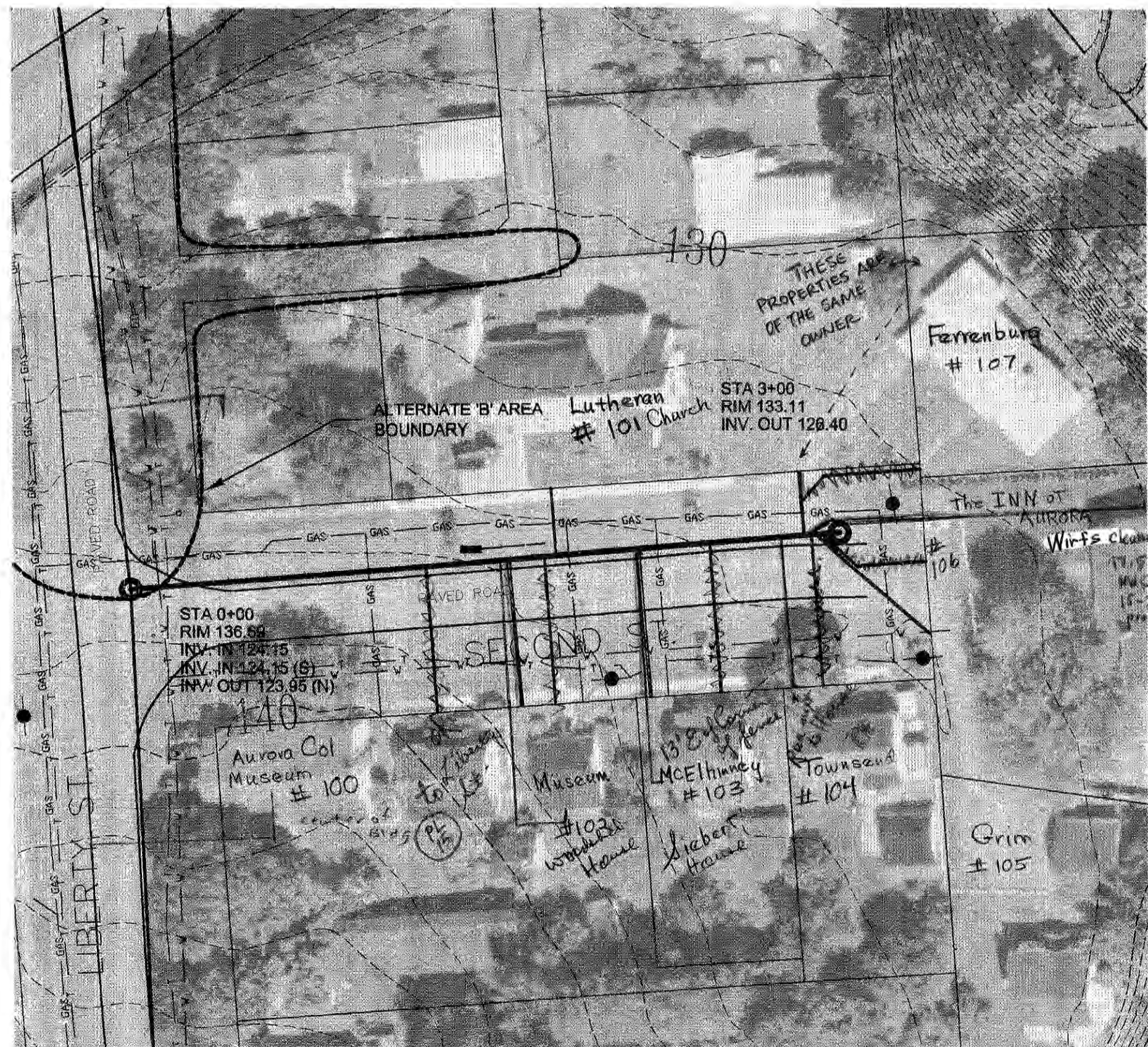


PR3 4TH. STREET
 16 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



PL1 2ND. STREET
 16 SCALE: 1" = 50'-0"

16



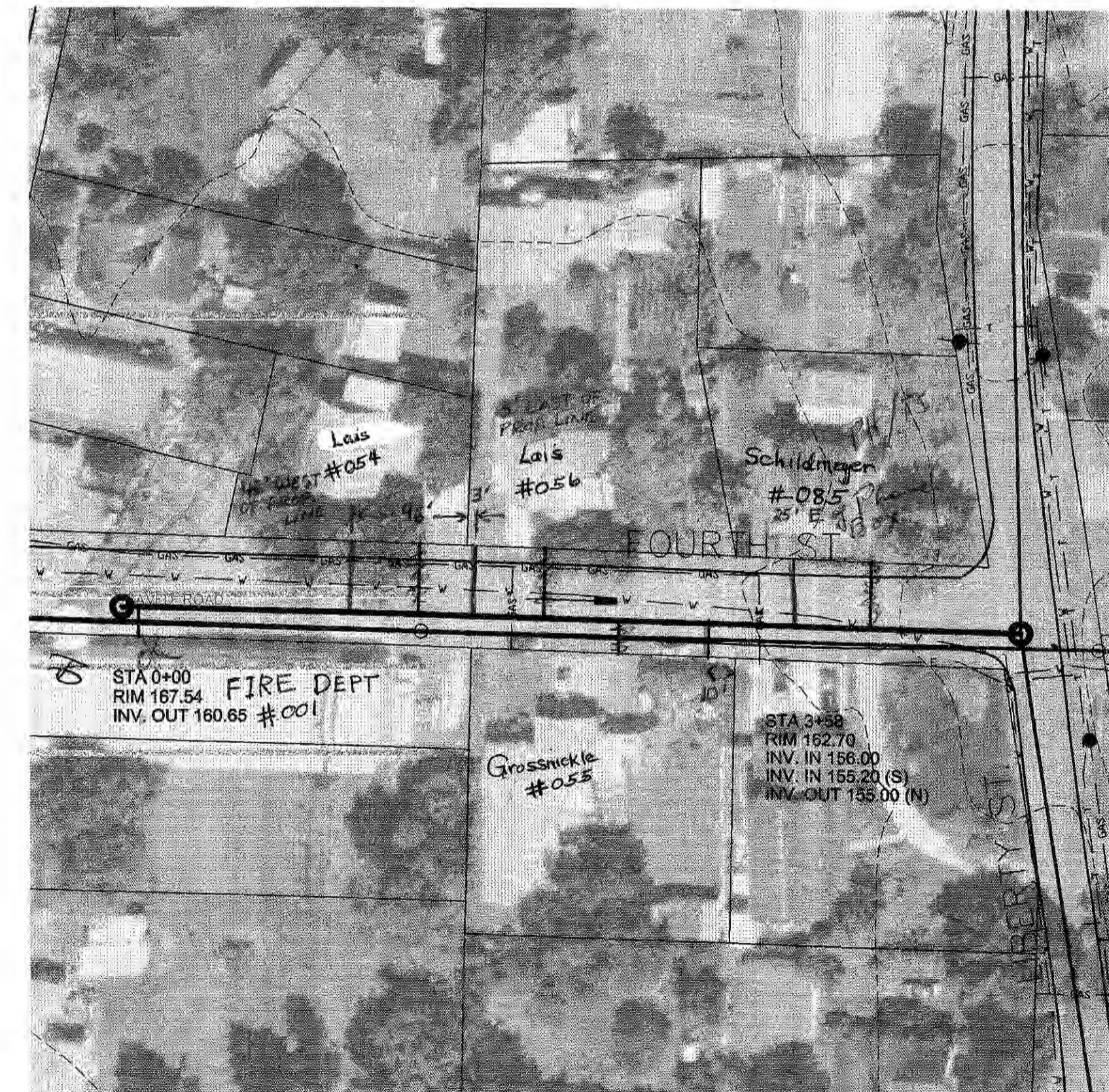
PL2 3RD. STREET
 16 SCALE: 1" = 50'-0"

16



PL3 4TH. STREET
 16 SCALE: 1" = 50'-0"

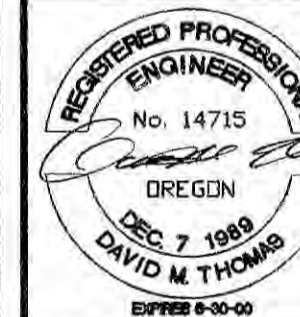
16



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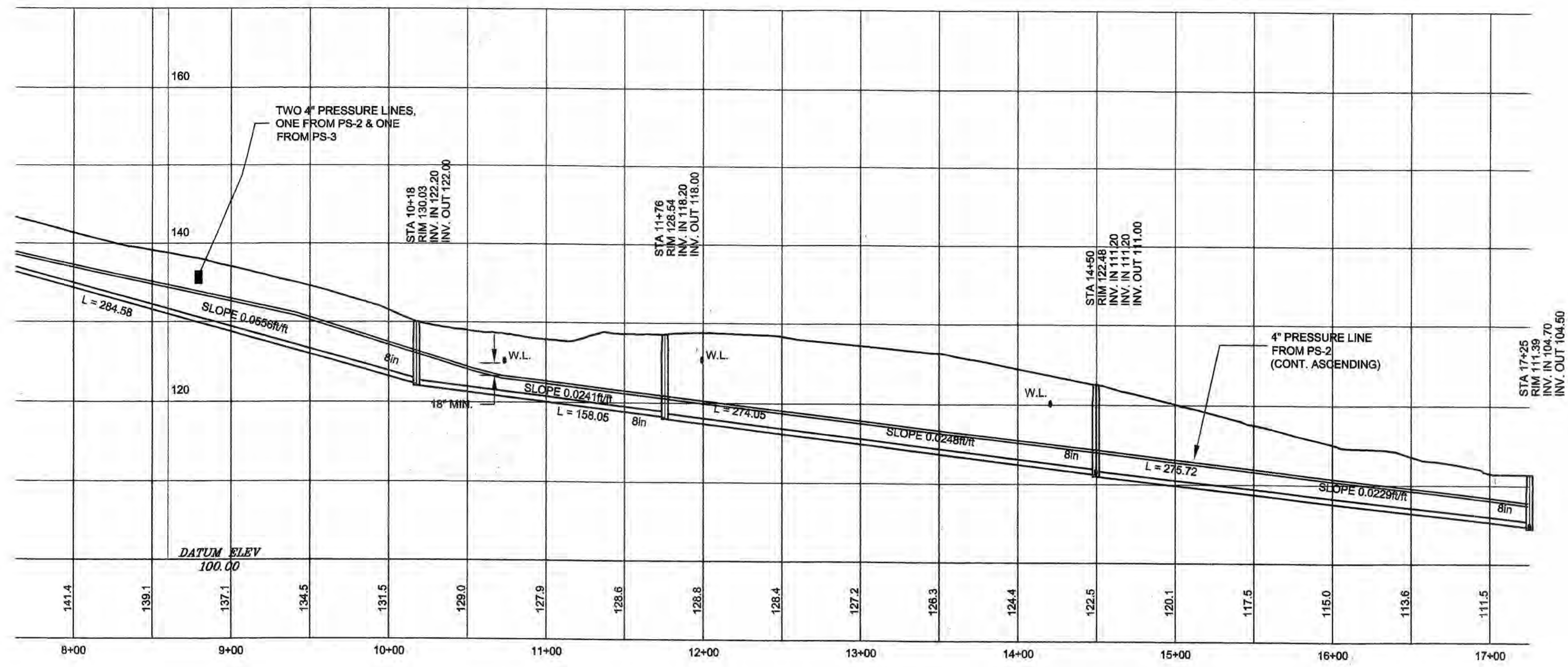
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 2ND, 3RD, & 4TH STREET



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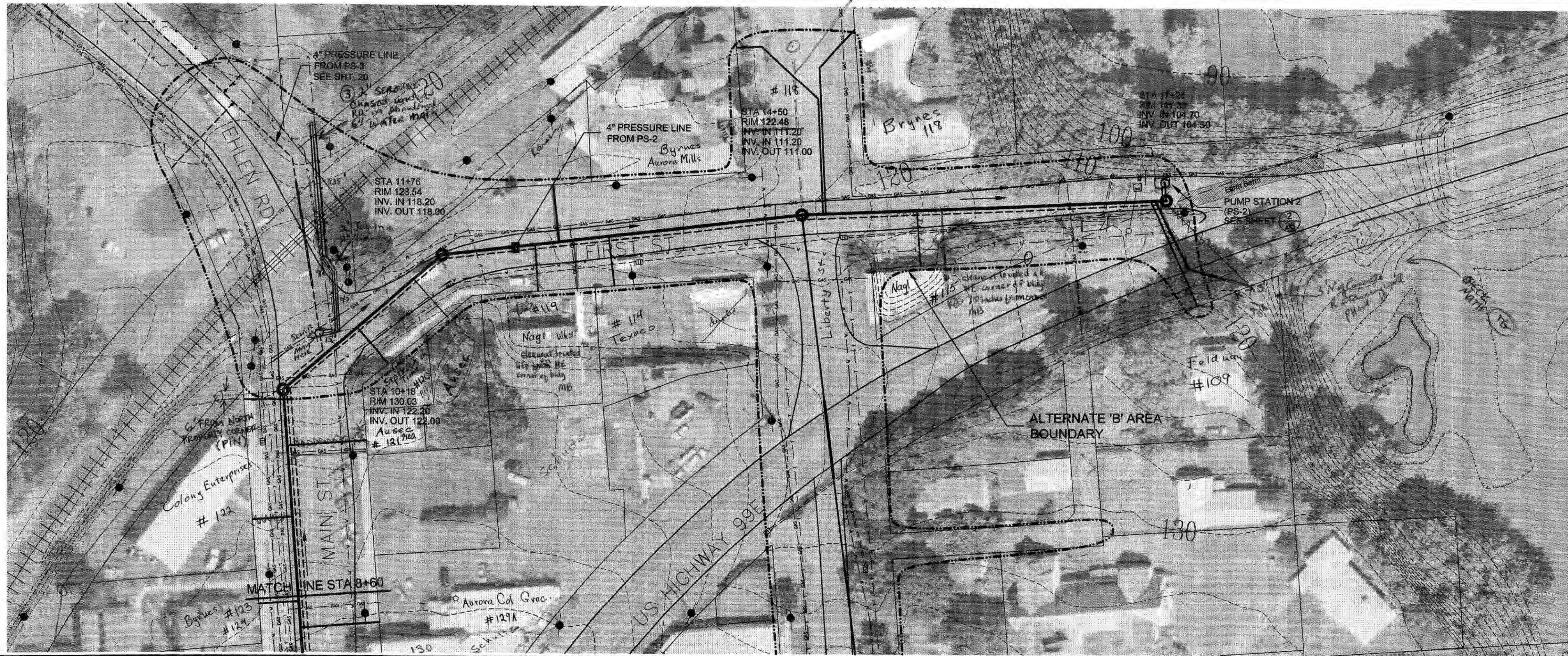


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PR 17 FIRST ST.
 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 10'-0"



PL 17 99E & FIRST ST.
 SCALE: 1" = 50'-0"

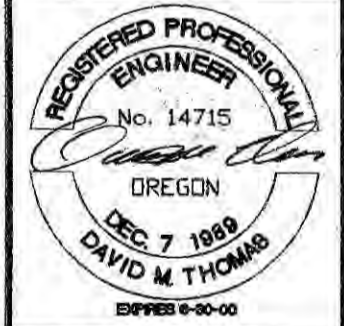


NOTE:
 PUMP STATION WET-WELL AND BURIED PIPING INCLUDED IN ALT. 'B'.
 ENCLOSURE AND EQUIPMENT NOT INCLUDED IN ALT. 'B'.

BST, Inc.
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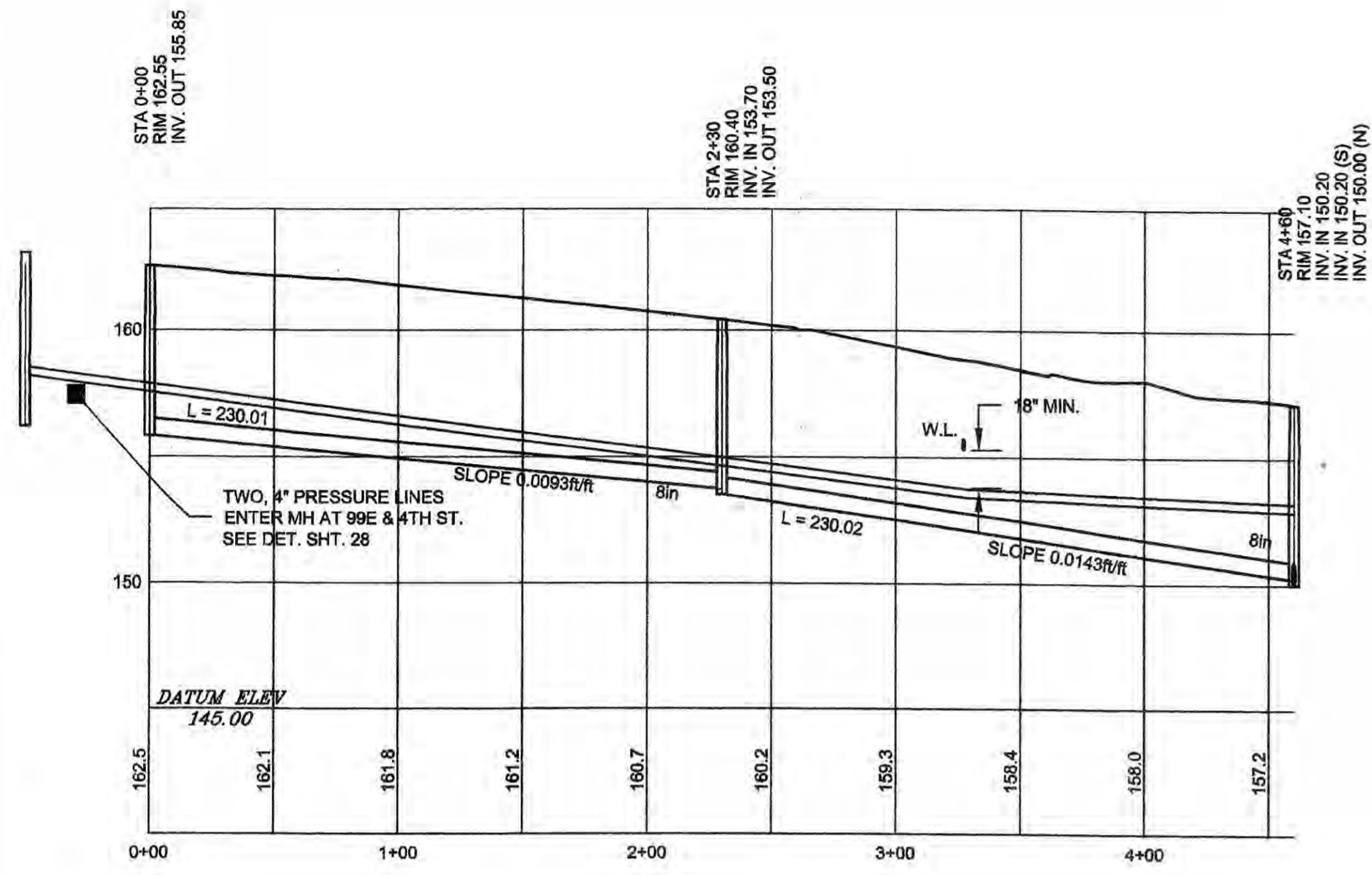
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
FIRST ST. & 99E

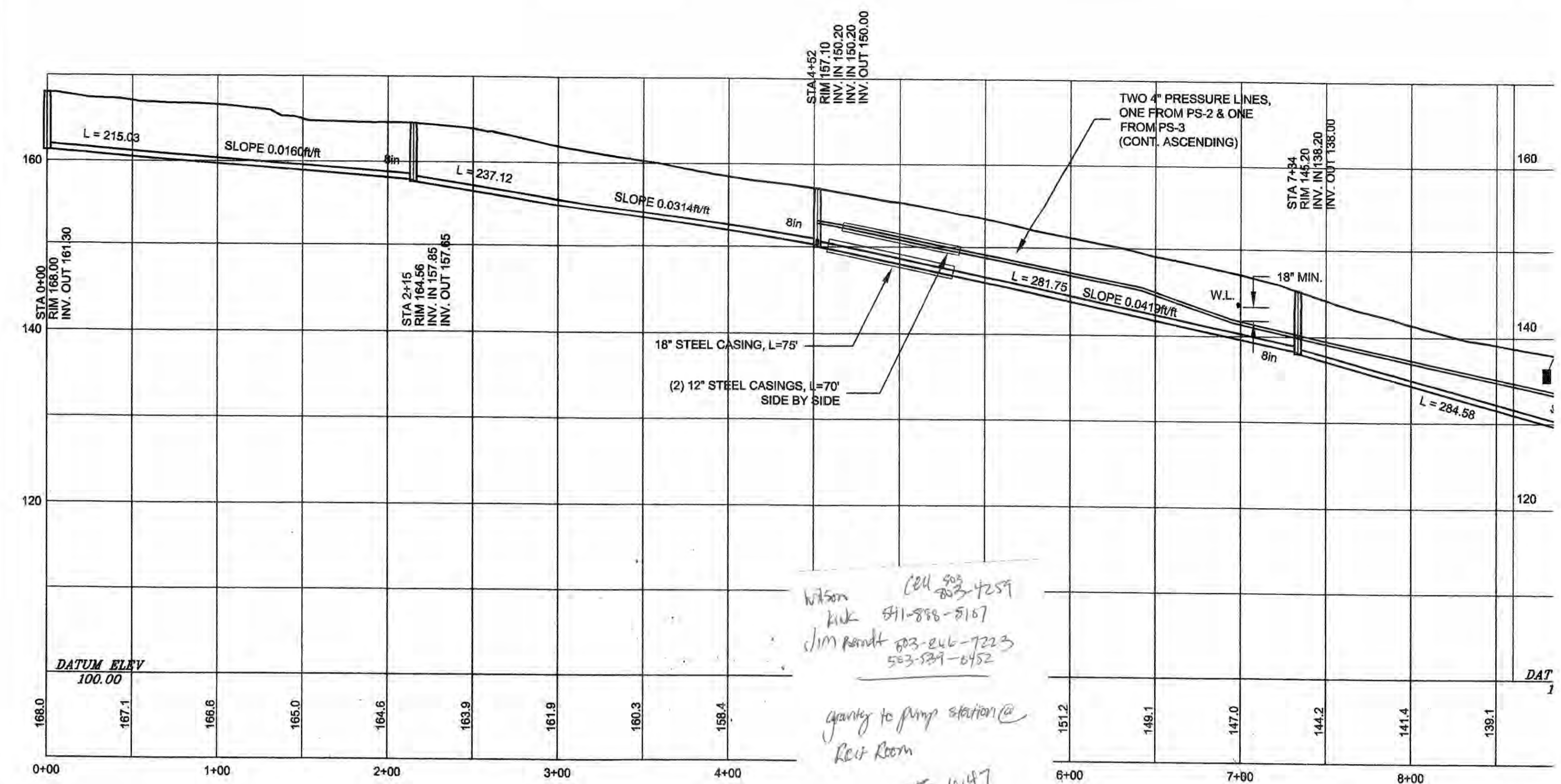


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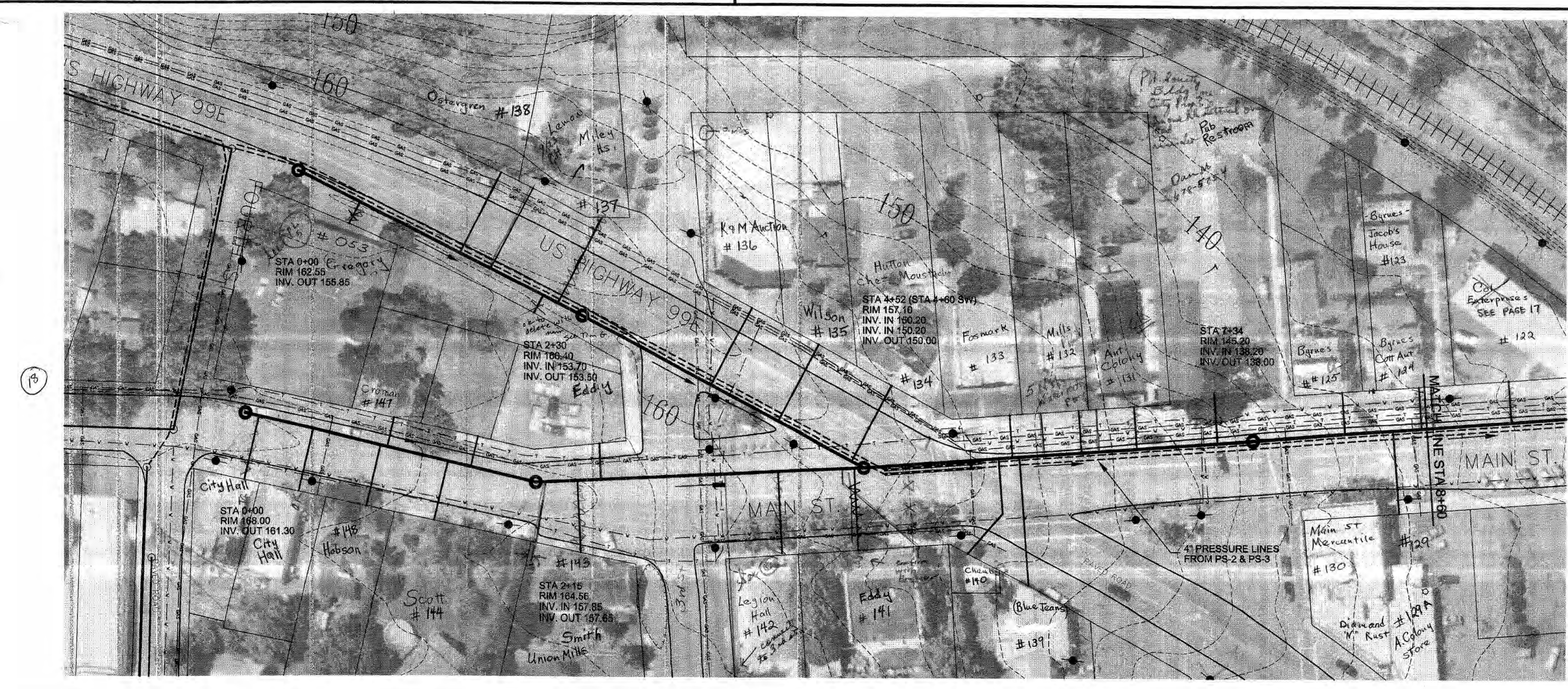
SCALE: see sheet
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 JOB NO.: 9706



PR1 99E
18 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 5'-0"



PR2 MAIN ST.
18 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"



PL 99E & MAIN ST.
18 SCALE: 1" = 50'-0"

*Add measurements
to make things
them in*

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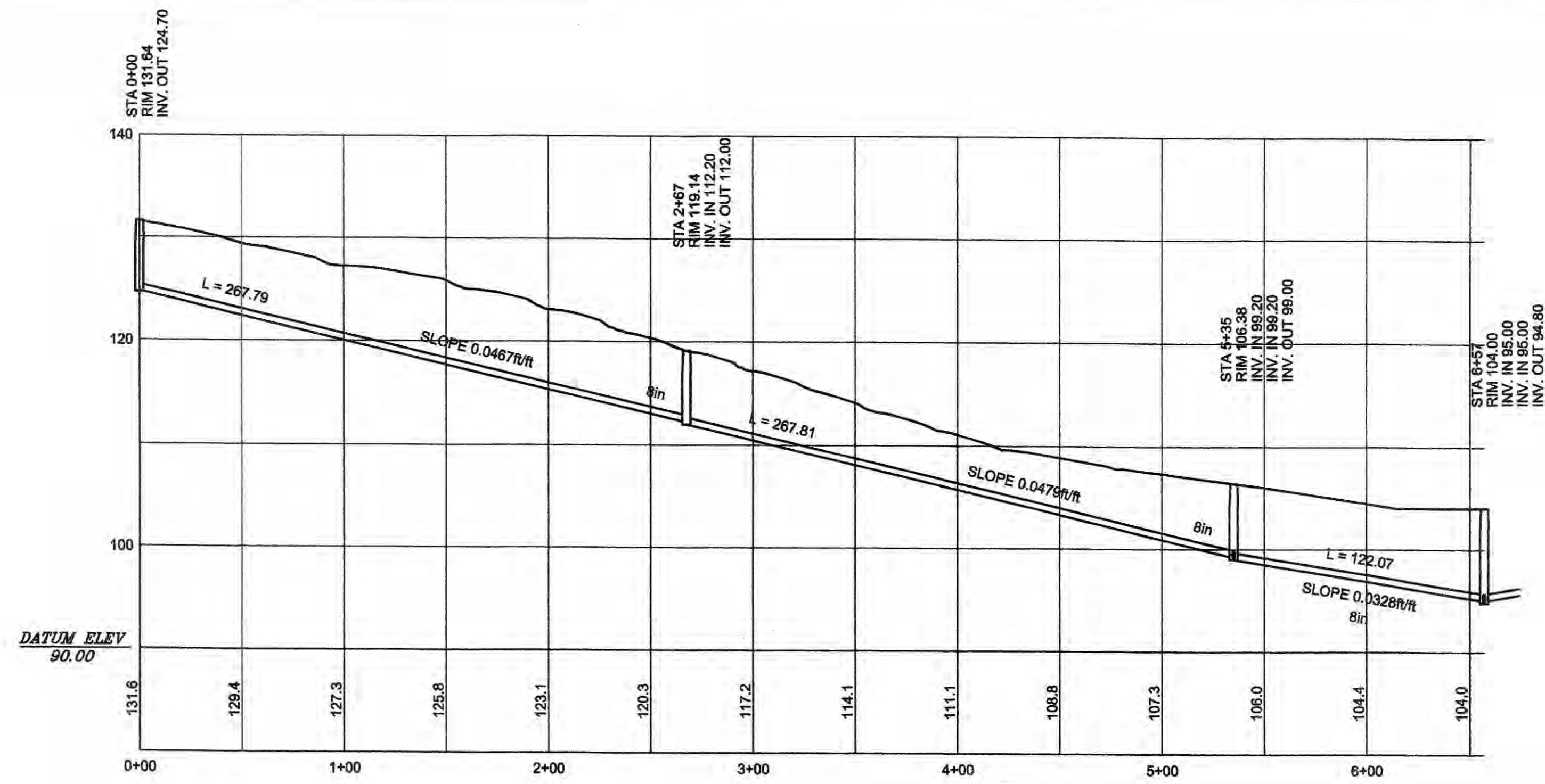
WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
MAIN STREET & 99E

REGISTERED PROFESSIONAL
ENGINEER
No. 14715
DAVID M. THOMAS
DEC. 7 1989
DREGON

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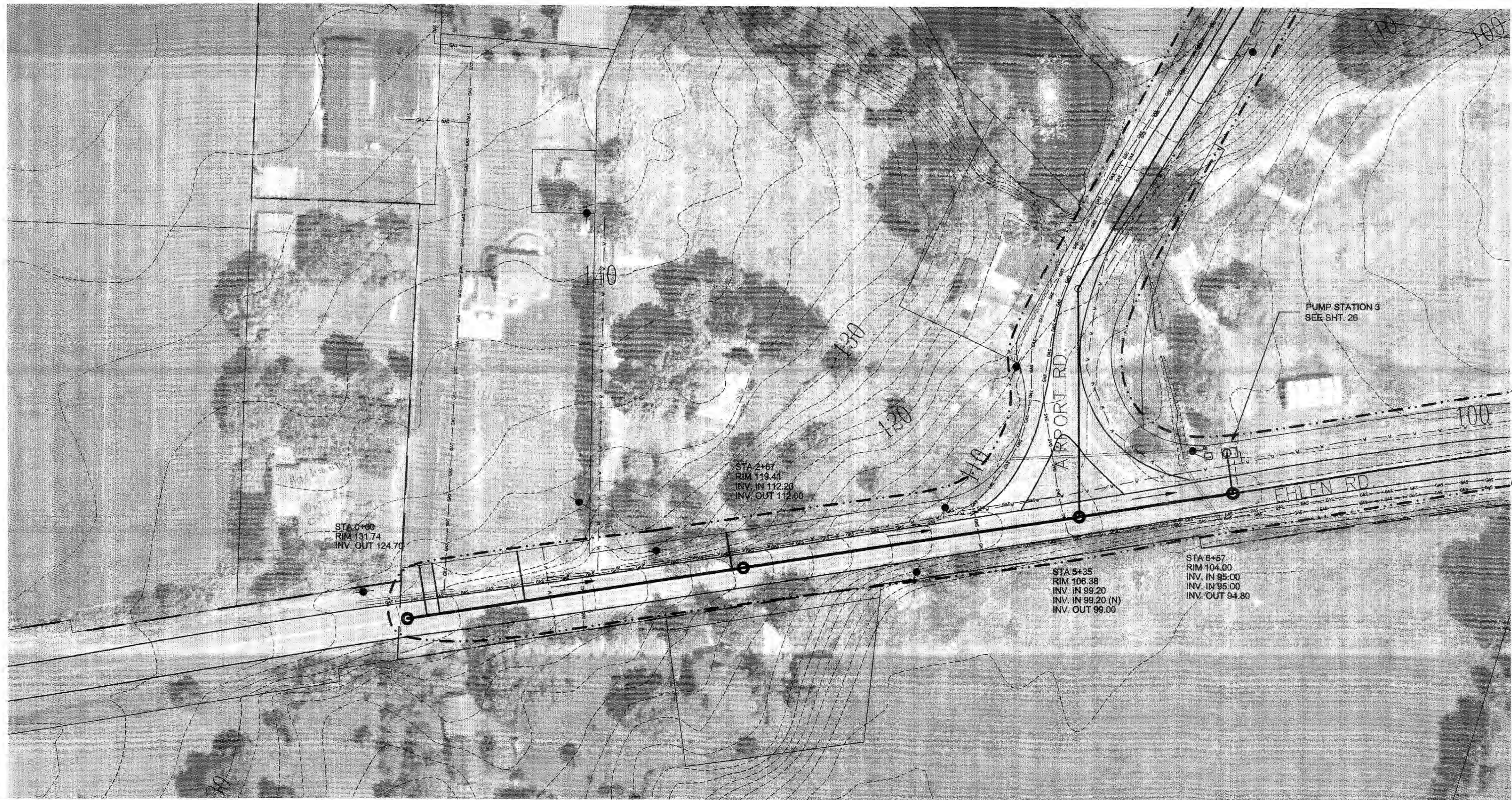
SCALE see sheet
DESIGNED REB
CHECKED DMT
JOB NO. 9706

18



PR 19 EHLEN RD.
 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 10'-0"

PL 19 EHLEN RD.
 SCALE: 1" = 50'-0"



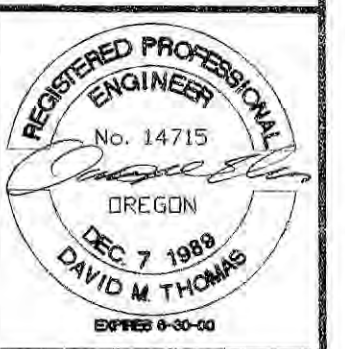
ALTERNATE 'A' AREA BOUNDARY

NOTE: PUMP STATION WET-WELL AND BURIED PIPING INCLUDED IN ALT. 'A'. ENCLOSURE AND EQUIPMENT NOT INCLUDED IN ALT. 'A'

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CITY OF AURORA
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 WASTEWATER COLLECTION SYSTEM

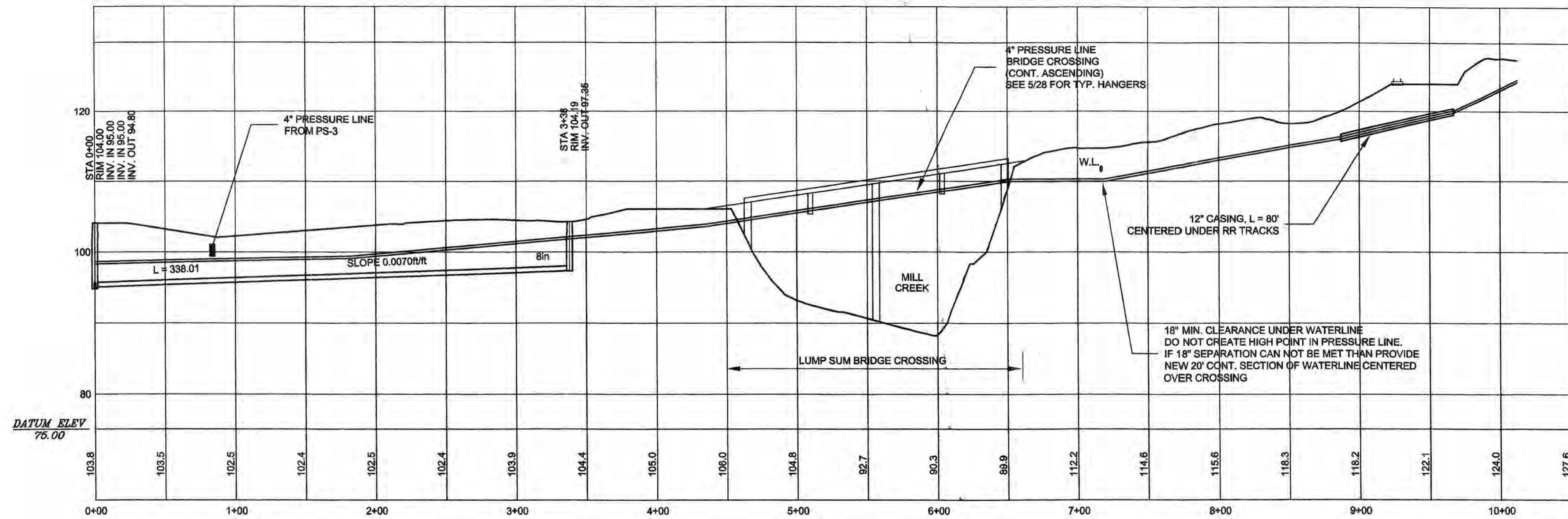
WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 EHLEN ROAD



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| revised to cl | 8/2/98 | REB | |

SCALE see sheet
 1" = 1"

DESIGNED: REB
 CHECKED: DMT
 JOB NO.: 9706



ALTERNATE 'A'
AREA BOUNDARY

20

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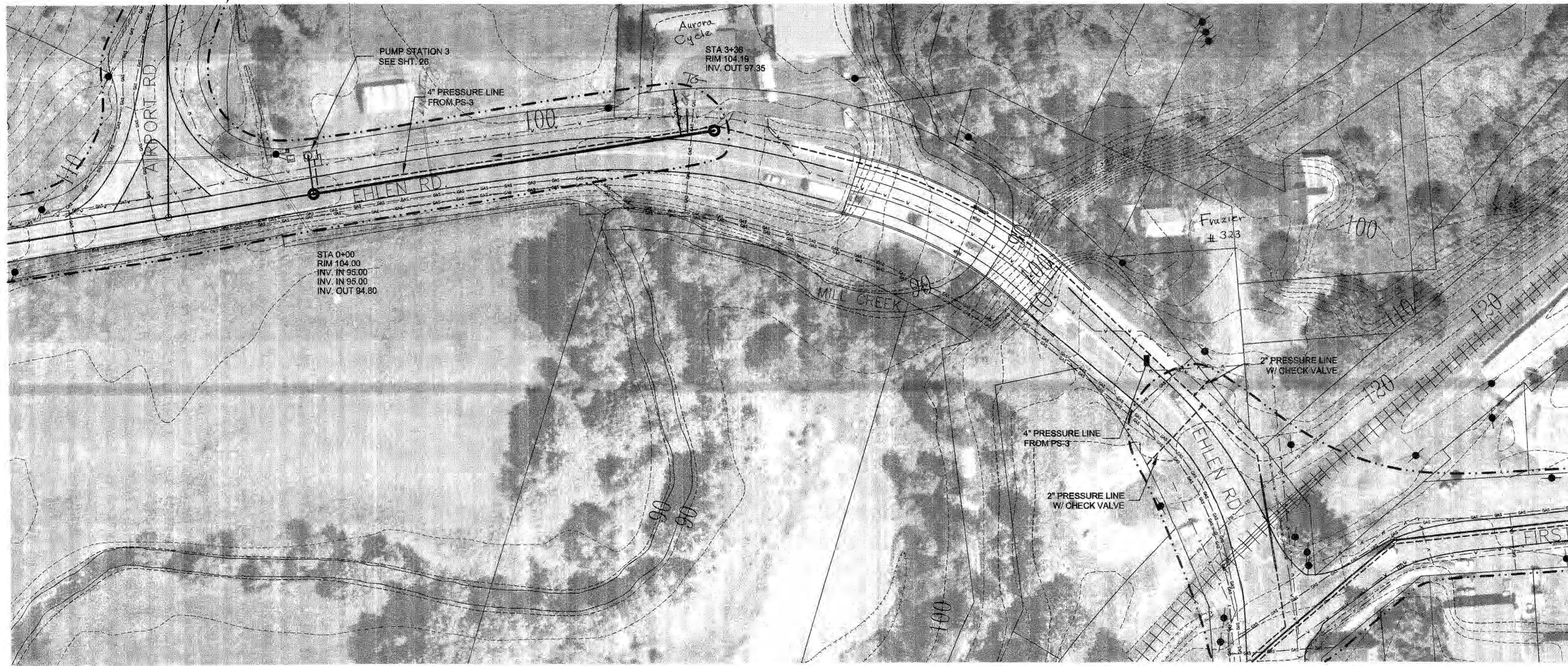
20

PR EHELEN RD.
20 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"

PL EHELEN RD.
20 SCALE: 1" = 50'-0"



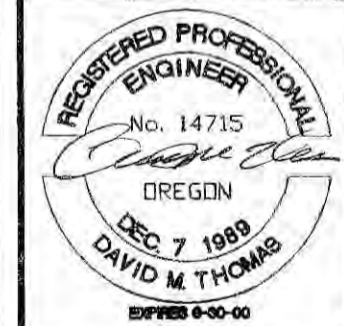
ALTERNATE 'B'
AREA BOUNDARY



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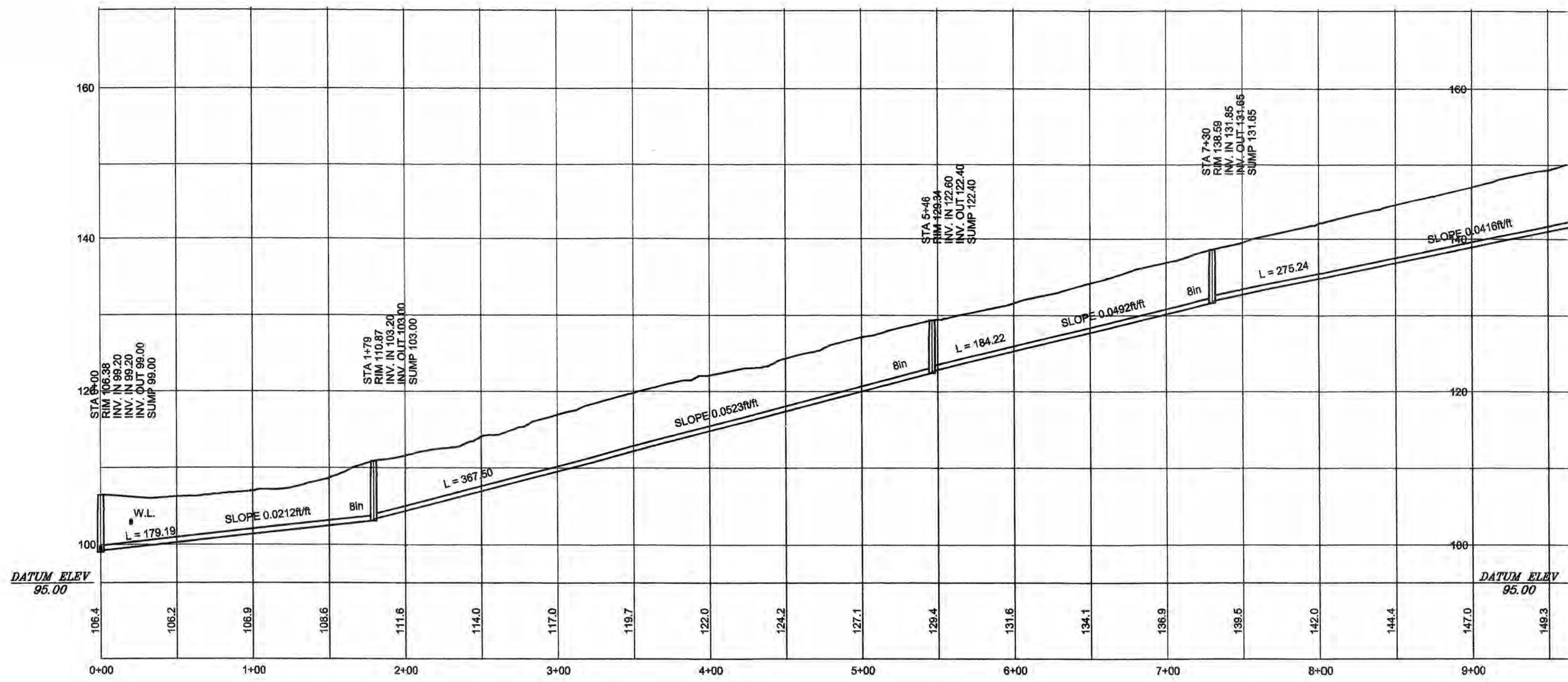
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
EHELEN ROAD



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JOB NO.: 9706



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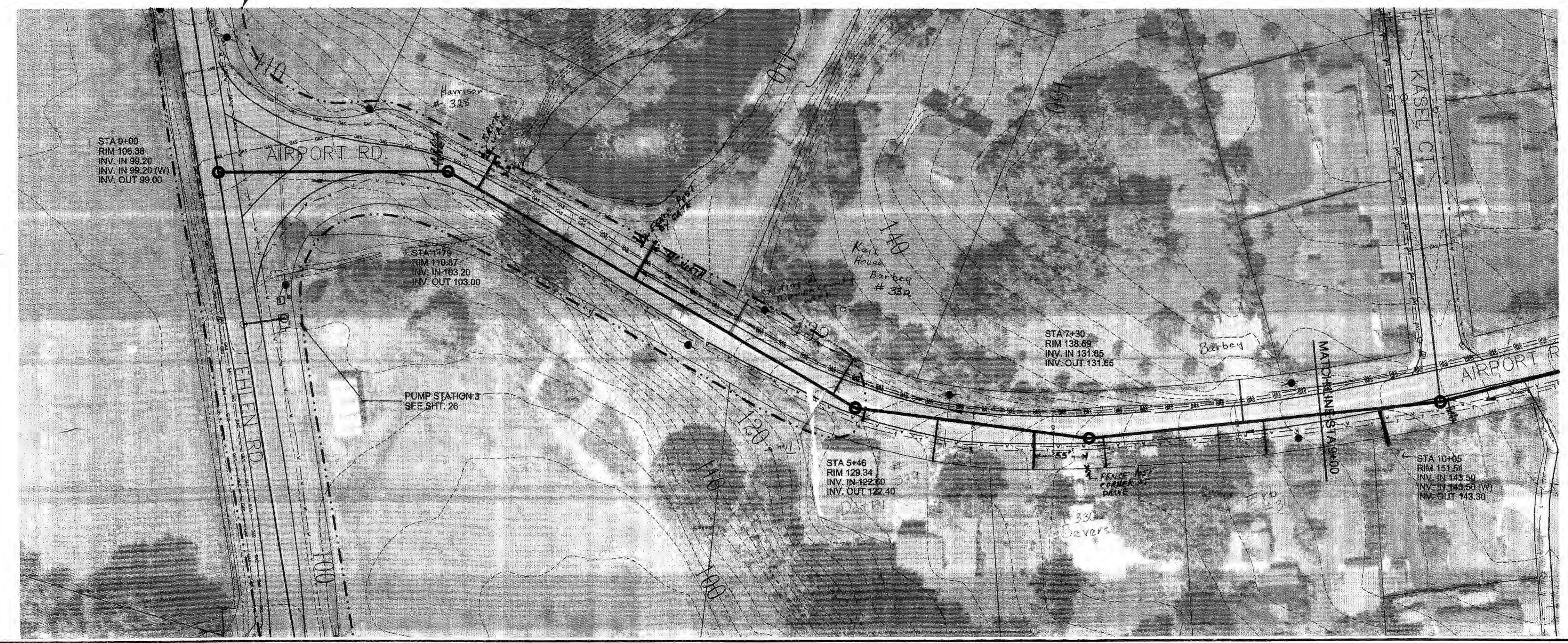
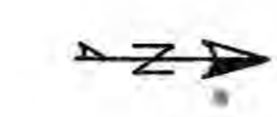
ALTERNATE 'A'
AREA BOUNDARY

(21)

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PR AIRPORT RD.
21 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"

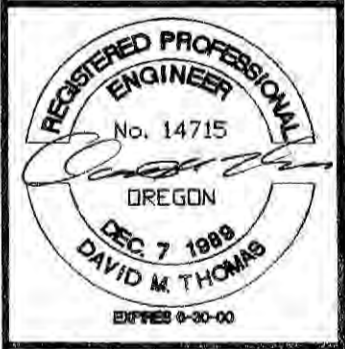
PL AIRPORT RD.
21 SCALE: 1" = 50'-0"



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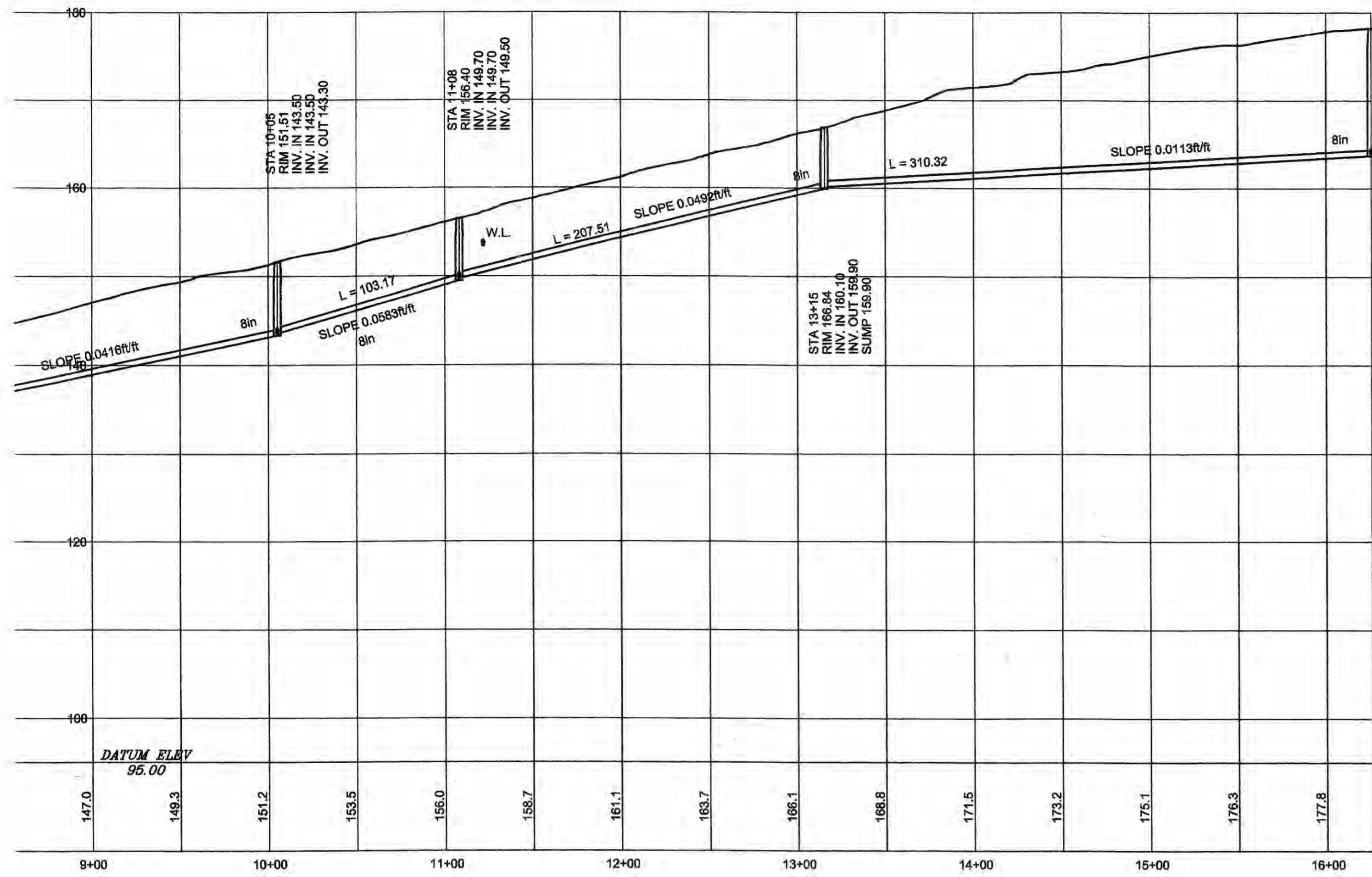
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
AIRPORT ROAD

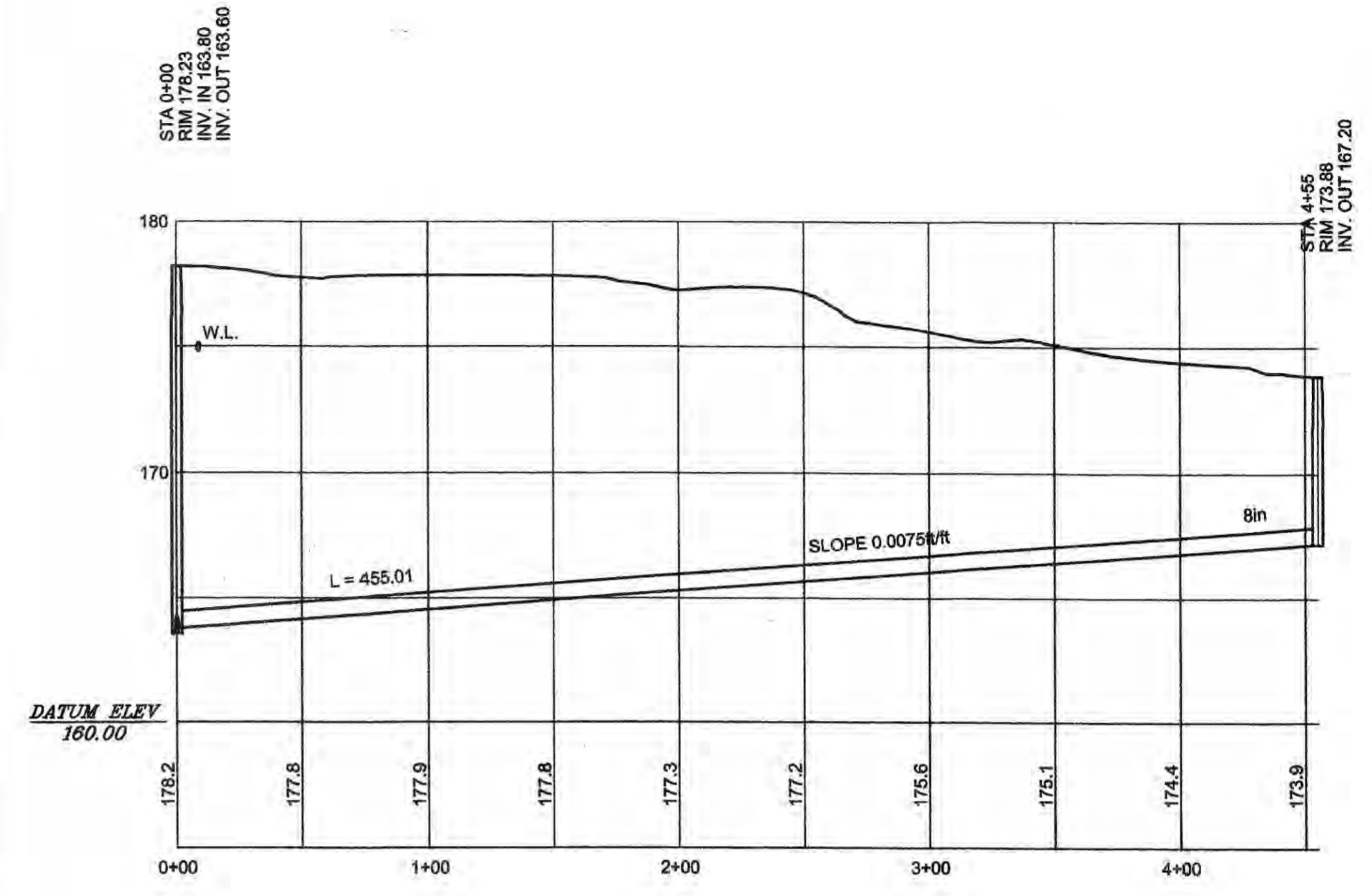


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SCALE see sheet
DESIGNED REB
CHECKED DMT
JOB NO. 9706



STA 16+26
RIM 178.23
INV. IN 163.80
INV. OUT 163.60
SUMP 163.60

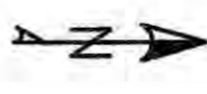


STA 4+55
RIM 167.20
INV. OUT 167.20

PR1 AIRPORT RD.
22 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"

PR2 SMITH LN.
22 HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 5'-0"

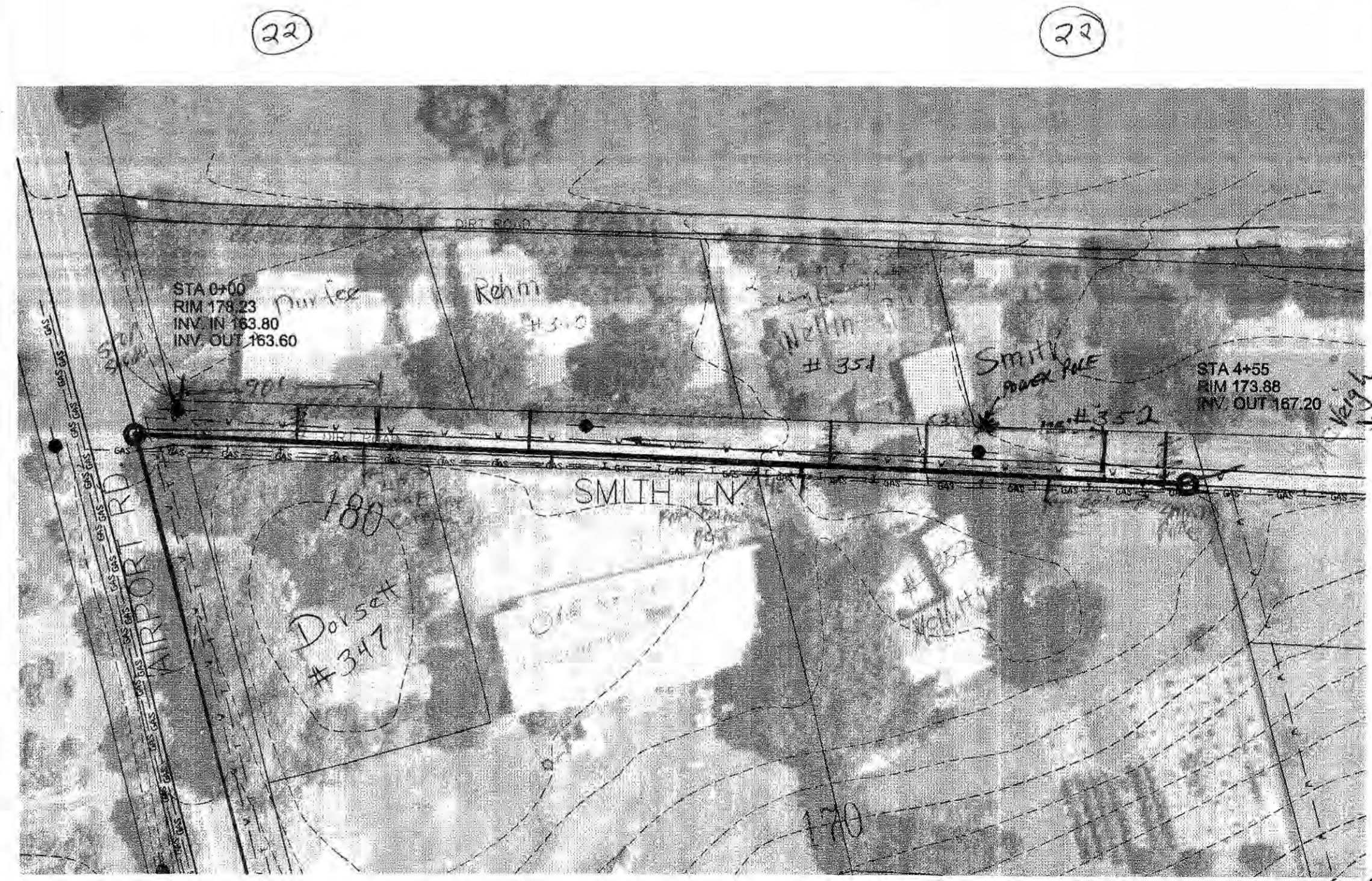
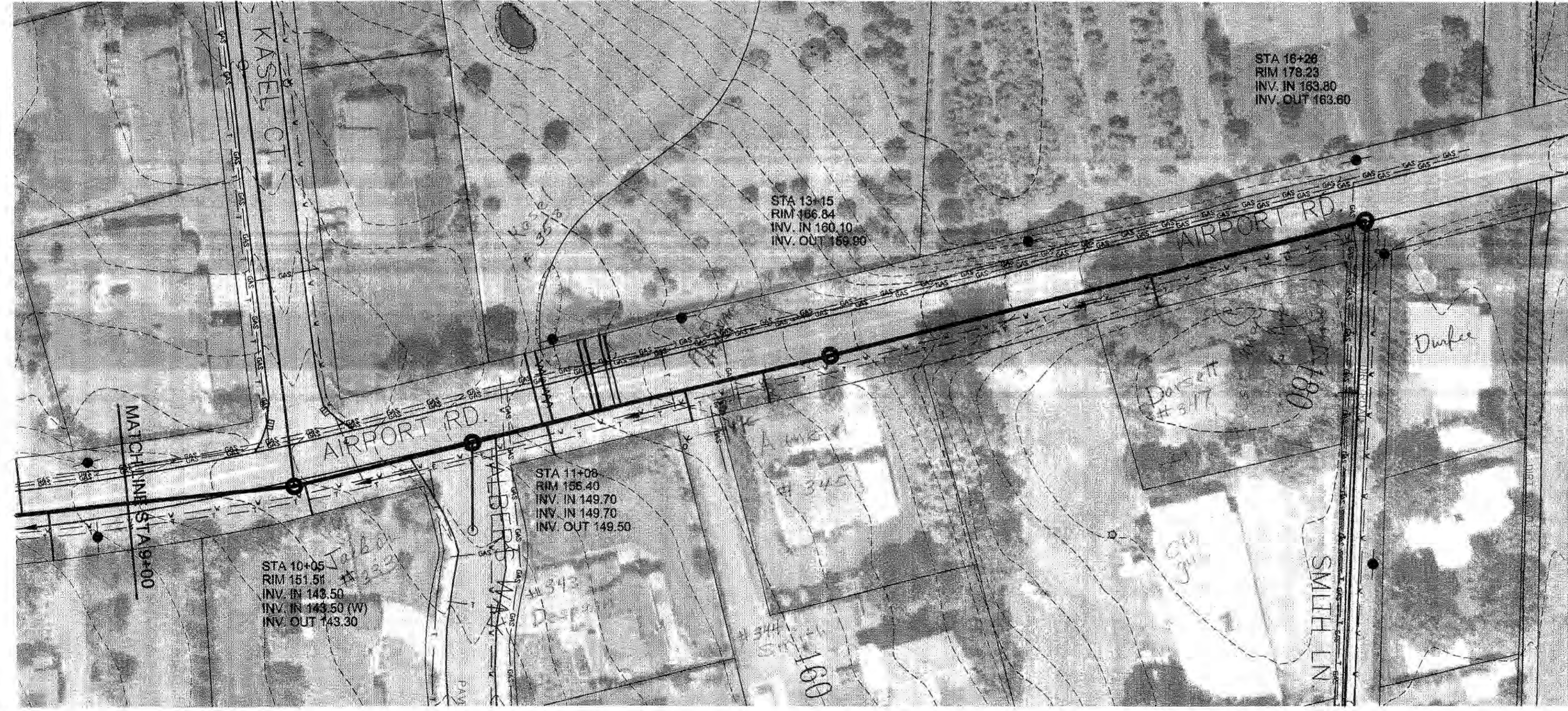
22



PL1 AIRPORT RD.
22 SCALE: 1" = 50'-0"



PL2 SMITH LN.
22 SCALE: 1" = 50'-0"



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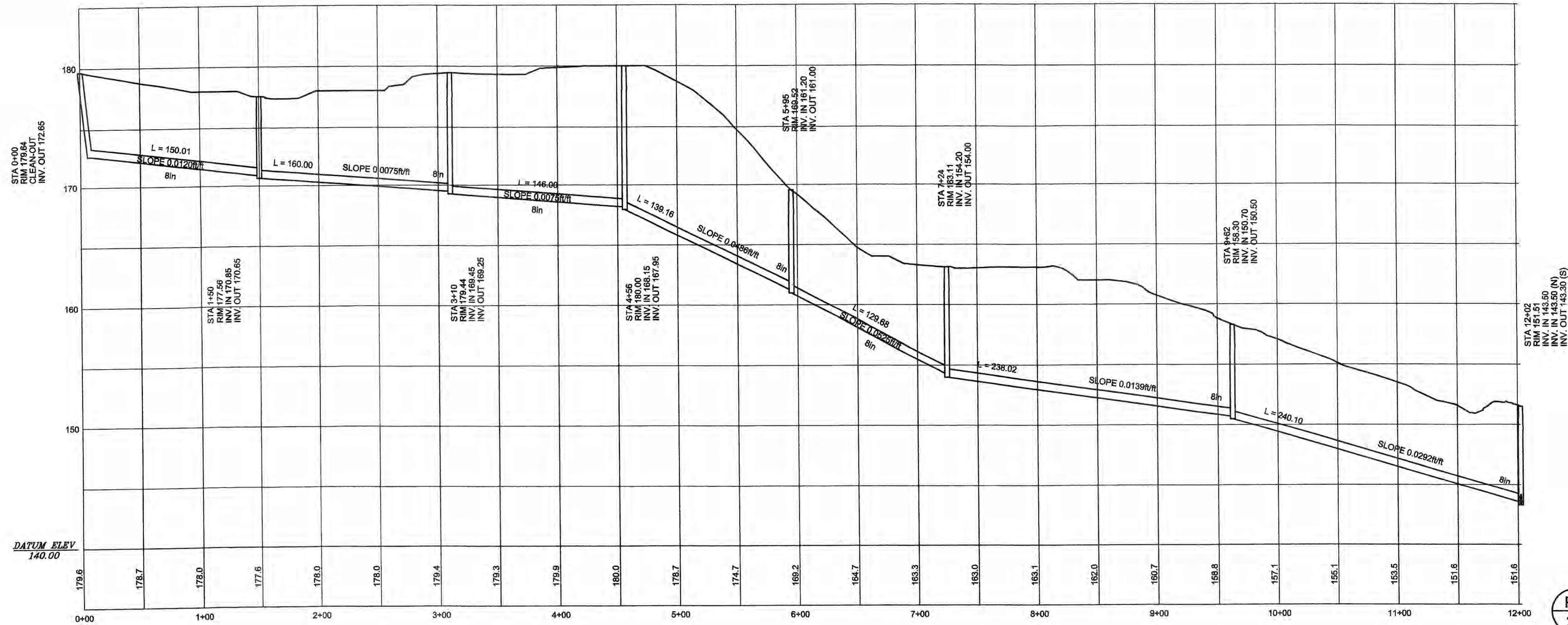
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
AIRPORT ROAD
& SMITH LANE

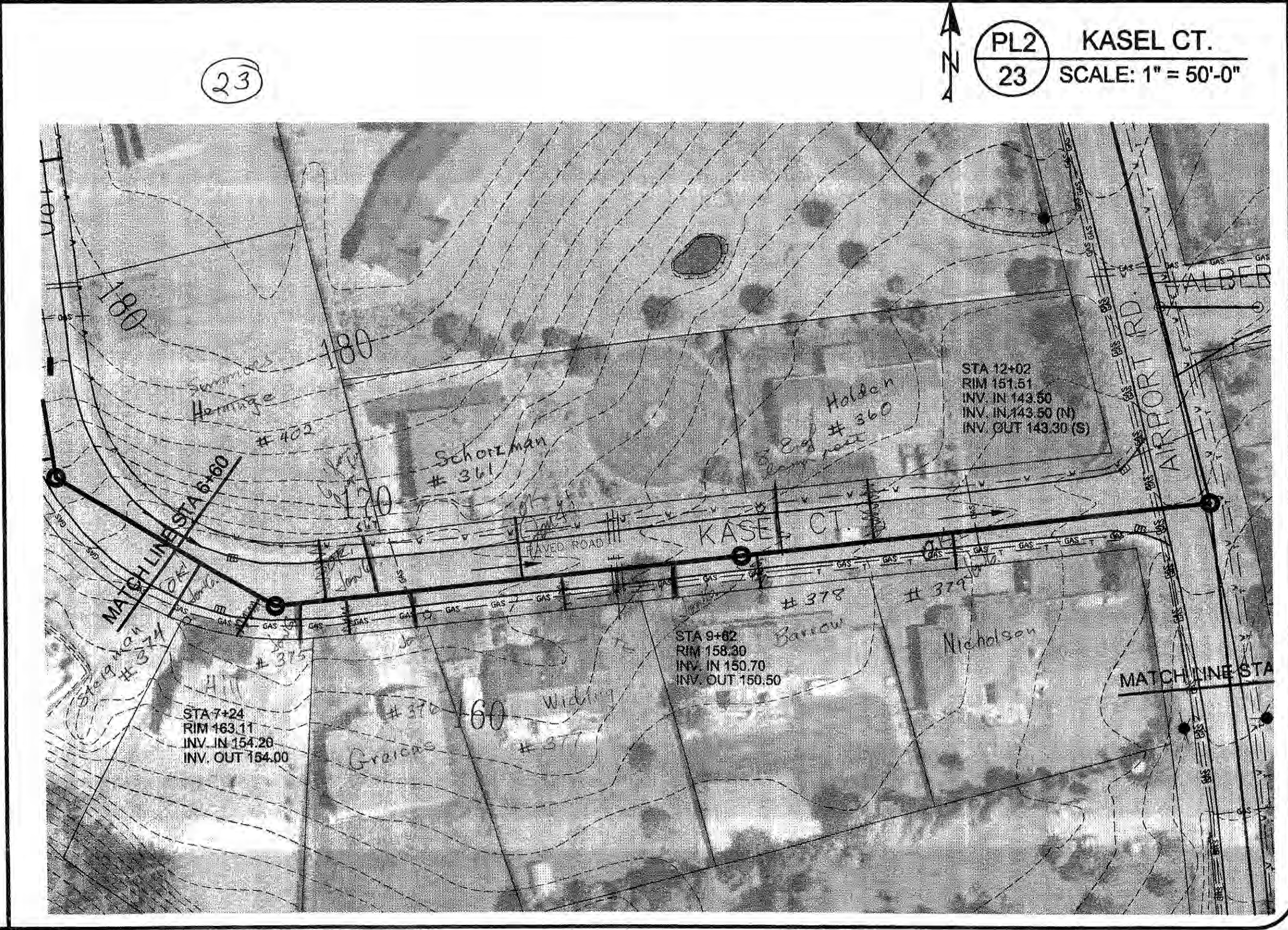
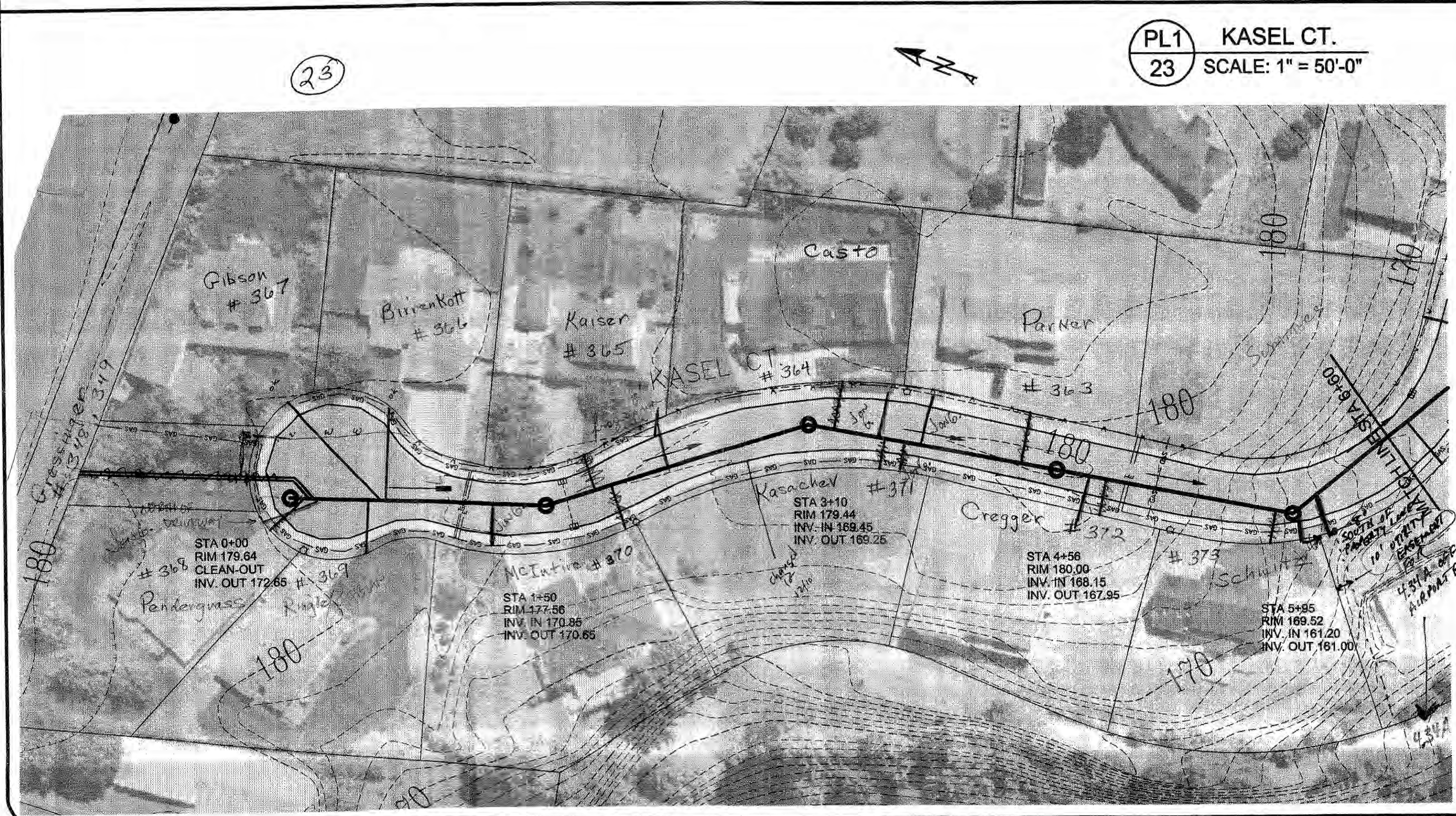


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SCALE see sheet
DESIGNED A REB
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JOB NO. 9706



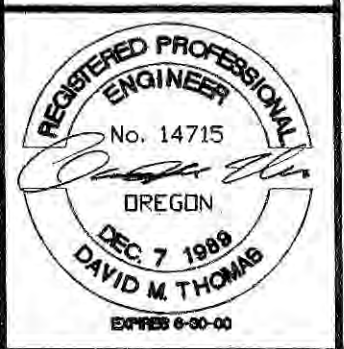
PR 23 KASEL CT.
 HOR. SCALE: 1" = 50'-0"
 VERT. SCALE: 1" = 5'-0"



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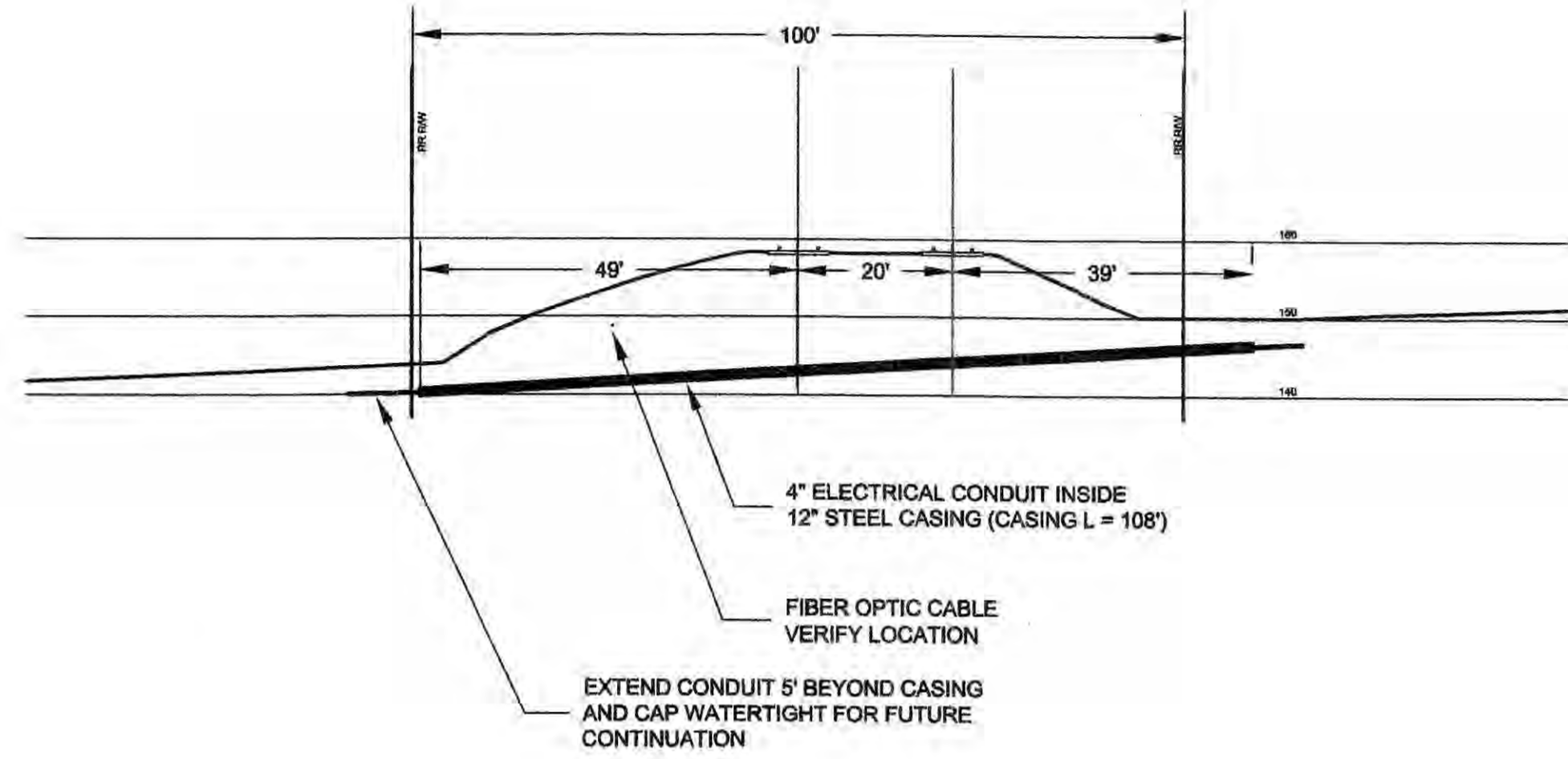
CITY OF AURORA
 MARION COUNTY, OREGON
 WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
 PLAN / PROFILE
 KASEL COURT

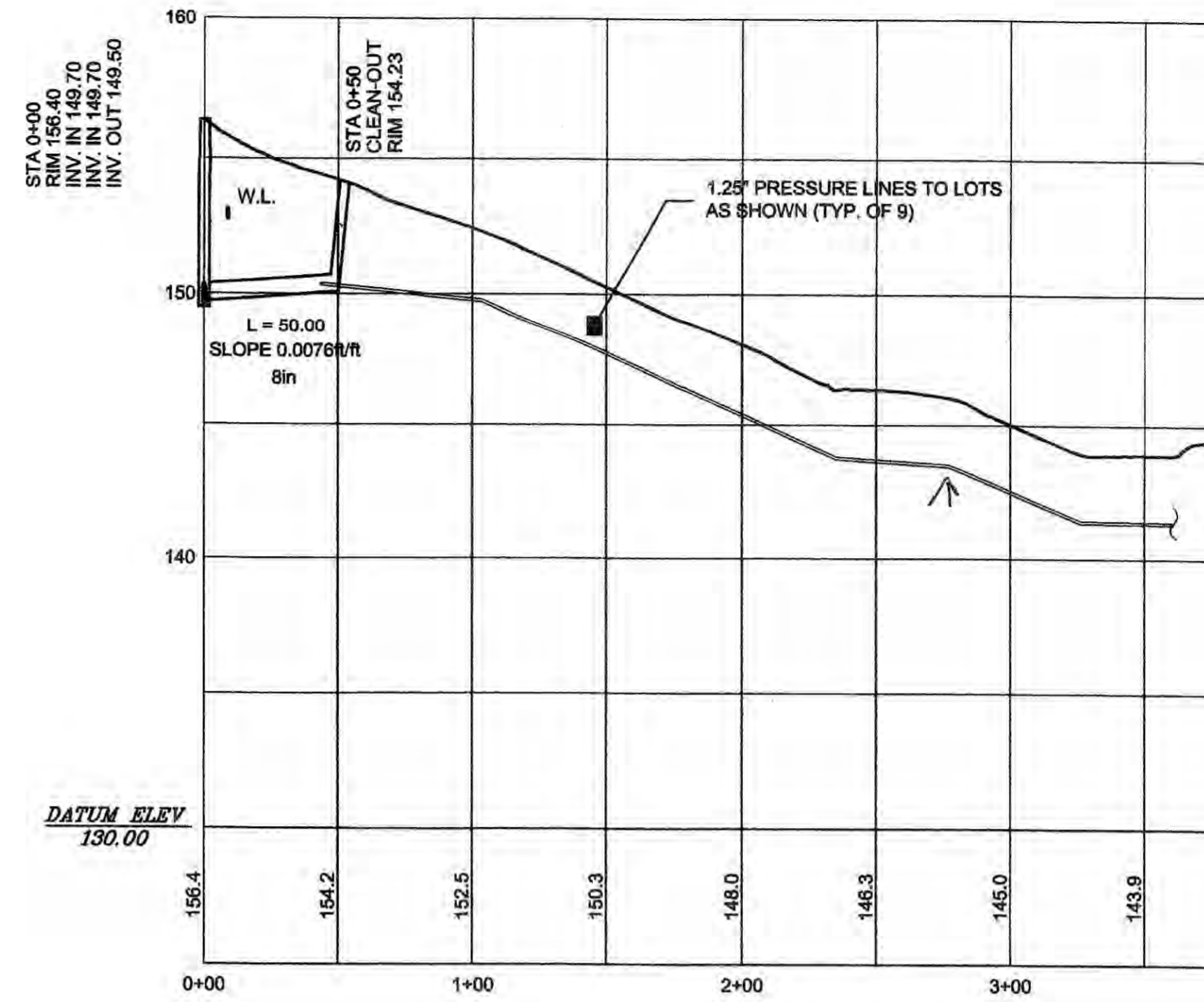


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SCALE see sheet
 OF 1"
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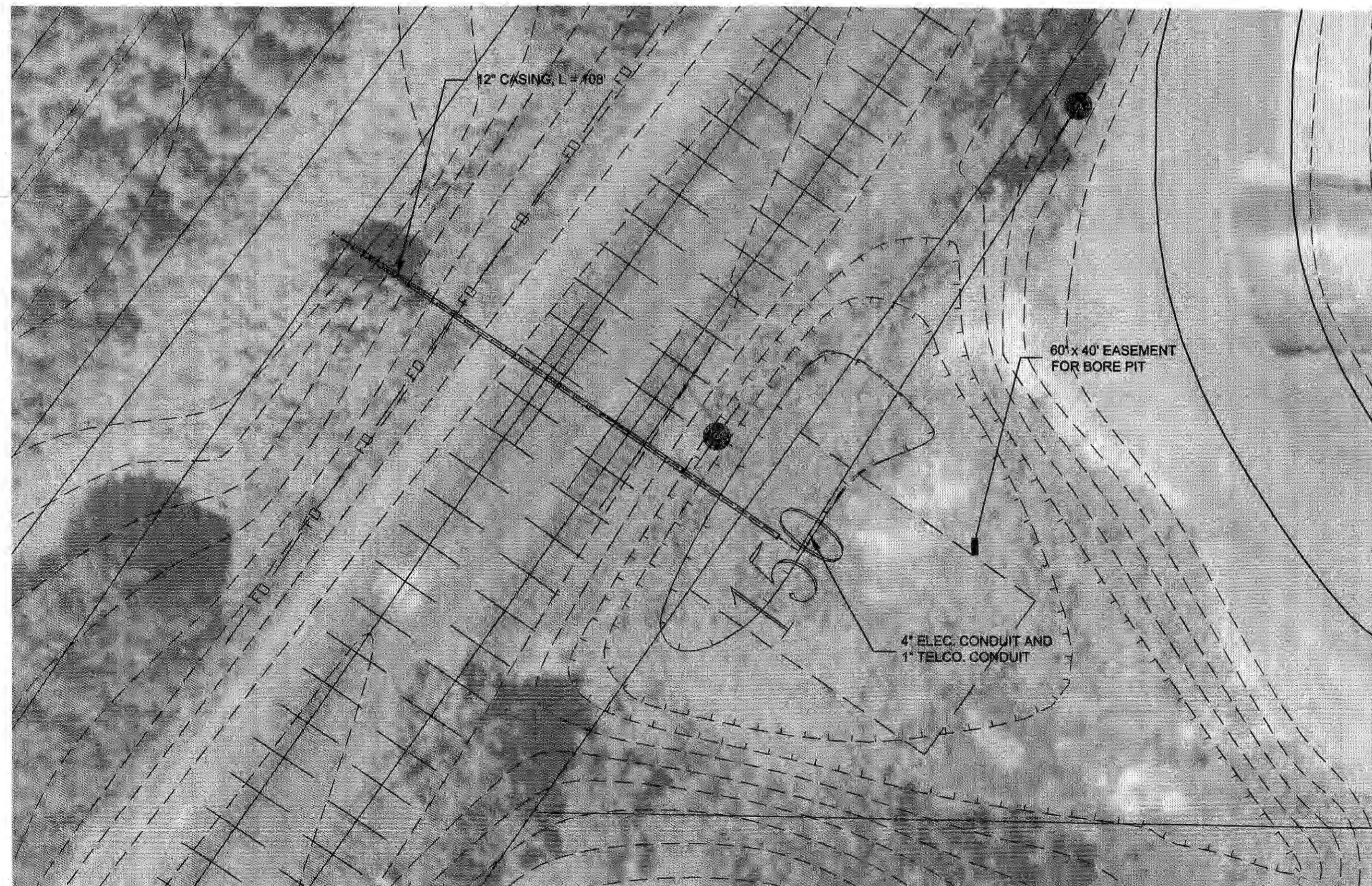
PR1
24 RR CROSSING TO STP SITE
HOR. SCALE: 1" = 20'-0"
VERT. SCALE: 1" = 20'-0"



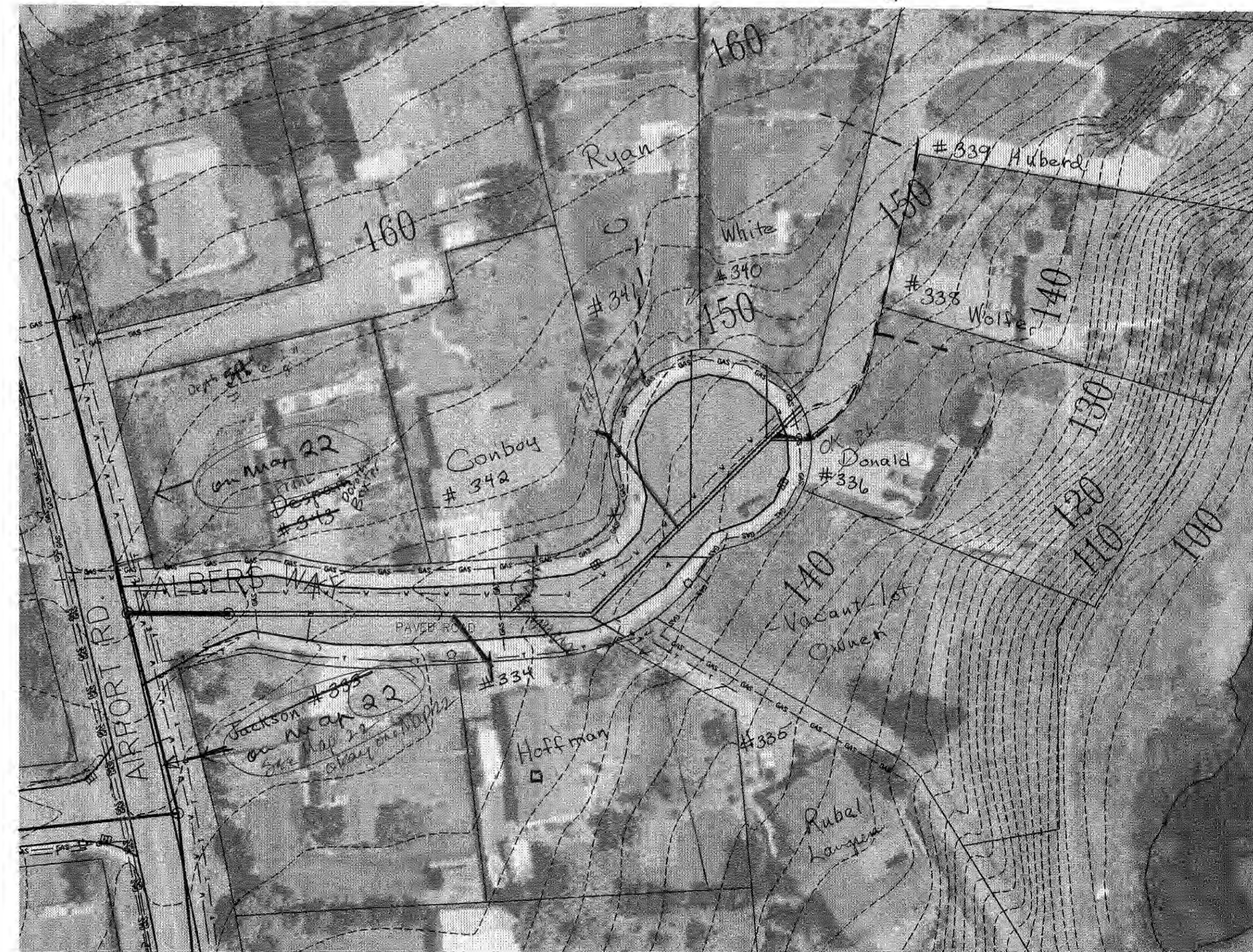
NOTE: CONTRACTOR TO PROVIDE A CHECK VALVE AT PROPERTY LINE FOR EACH SERVICE CONNECTION

PR2
24 ALBERS WAY
HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 5'-0"

PL1
24 RR CROSSING TO STP SITE
SCALE: 1" = 20'-0"



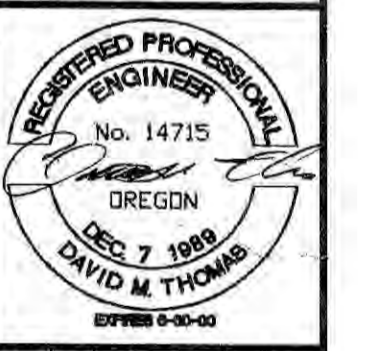
PL2
24 ALBERS WAY
SCALE: 1" = 50'-0"



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CITY OF AURORA
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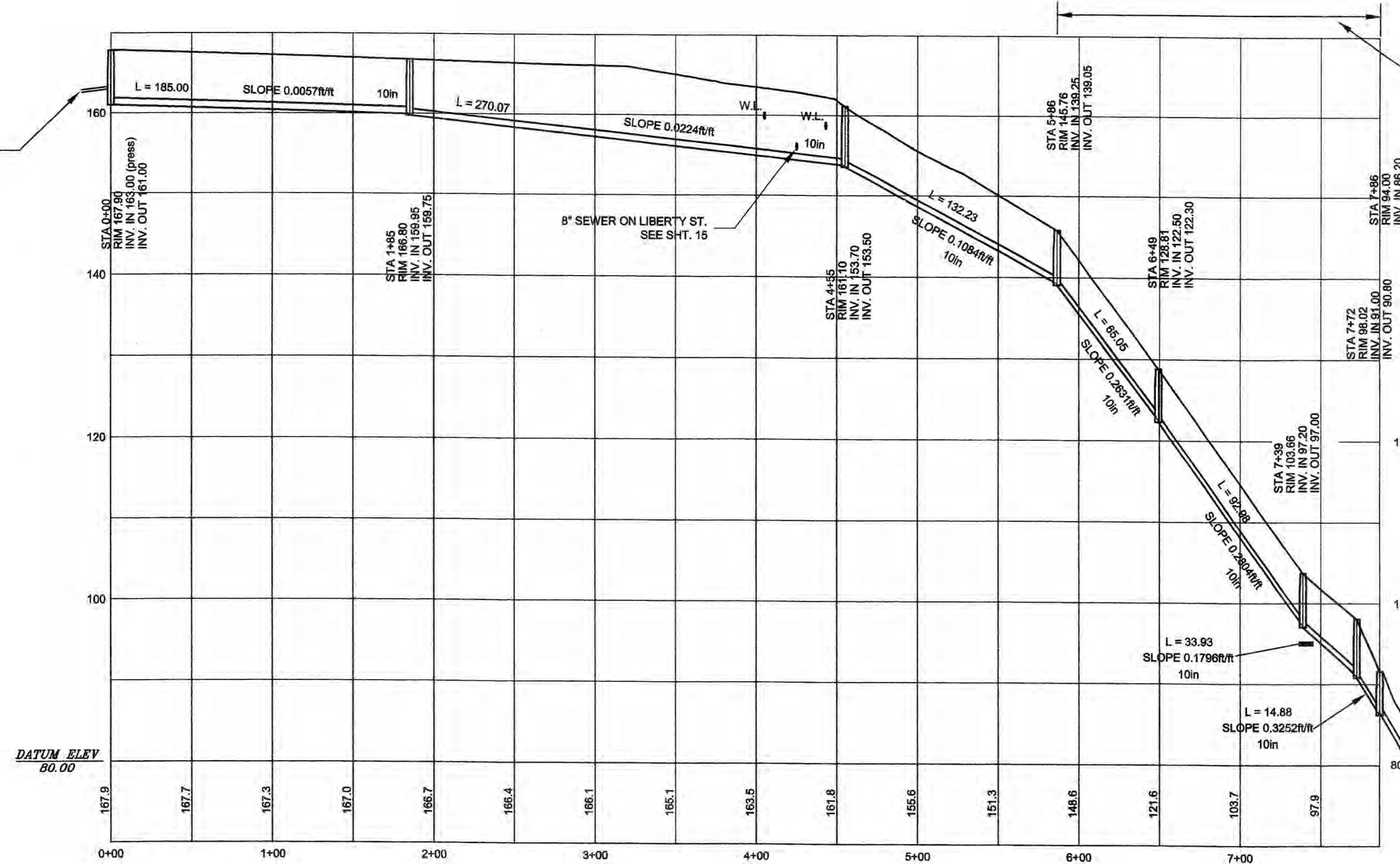
WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
ALBERS WAY & RR CROSSING



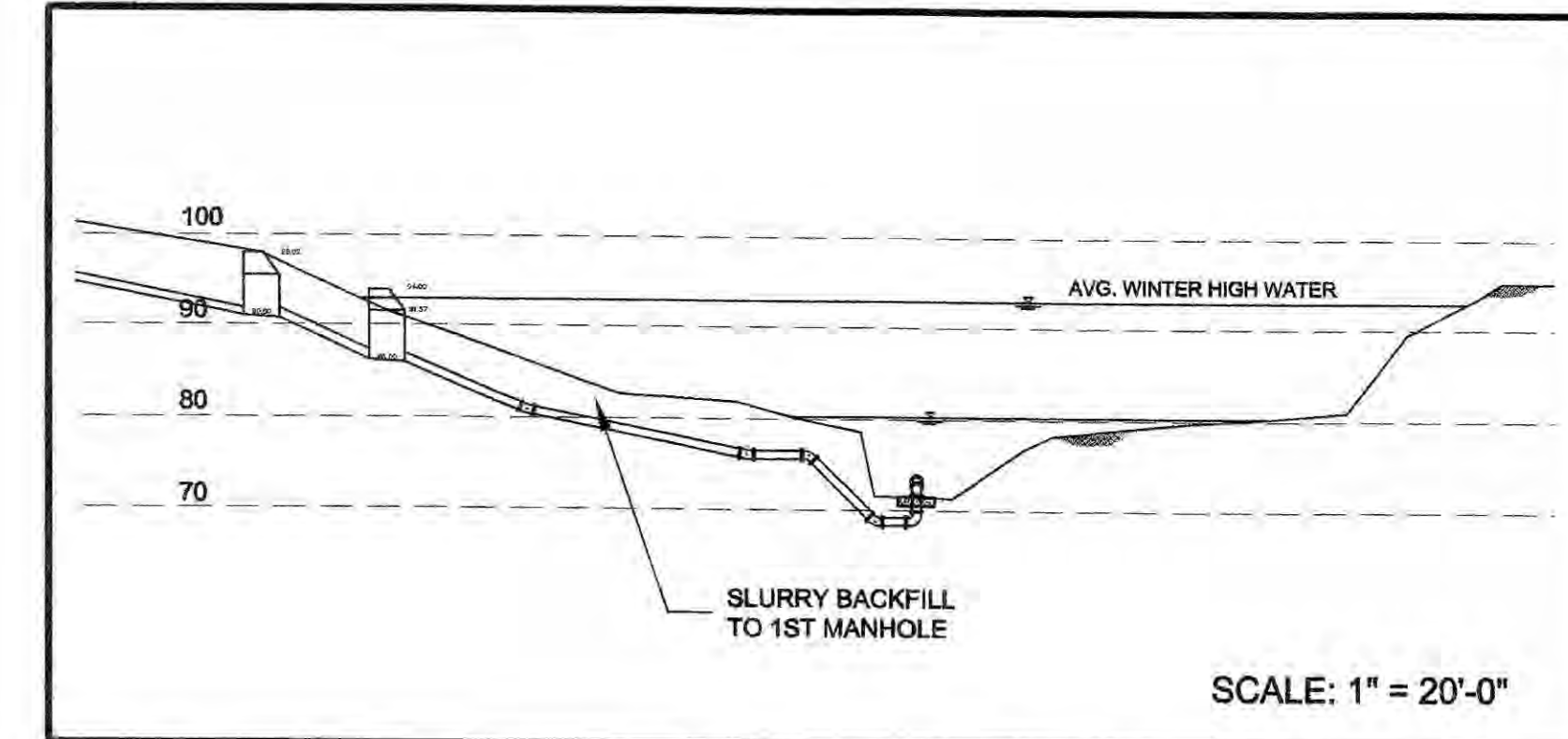
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JOB NO. 9706

6" PRESSURE OUTFALL LINE ENTERS MANHOLE AT INV. 163.00 SEE DET. SHT. 28



STA. 5+86 TO 7+86 PROVIDE CONCRETE SLURRY TRENCH CUT-OFF WALLS AT 35' ON CENTER, 12" THICK AND EXTENDING 8" BEYOND NORMAL TRENCH WALLS AND EXTENDING TO 4" BELOW SURFACE.



USE SLURRY BACKFILL BEYOND LAST MANHOLE

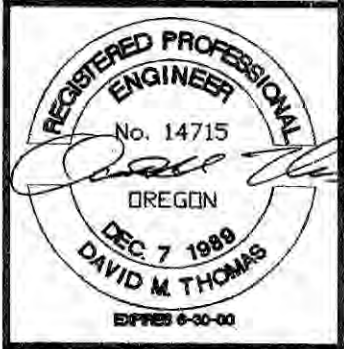
SUBMERGED DIFFUSER SEE 7/28

PR 25 OUTFALL
HOR. SCALE: 1" = 50'-0"
VERT. SCALE: 1" = 10'-0"

PL 25 OUTFALL
SCALE: 1" = 50'-0"



NOTE: CONTRACTOR TO LOCATE OUTFALL DISCHARGE AS SHOWN ON THE 404 DREDGING PERMIT



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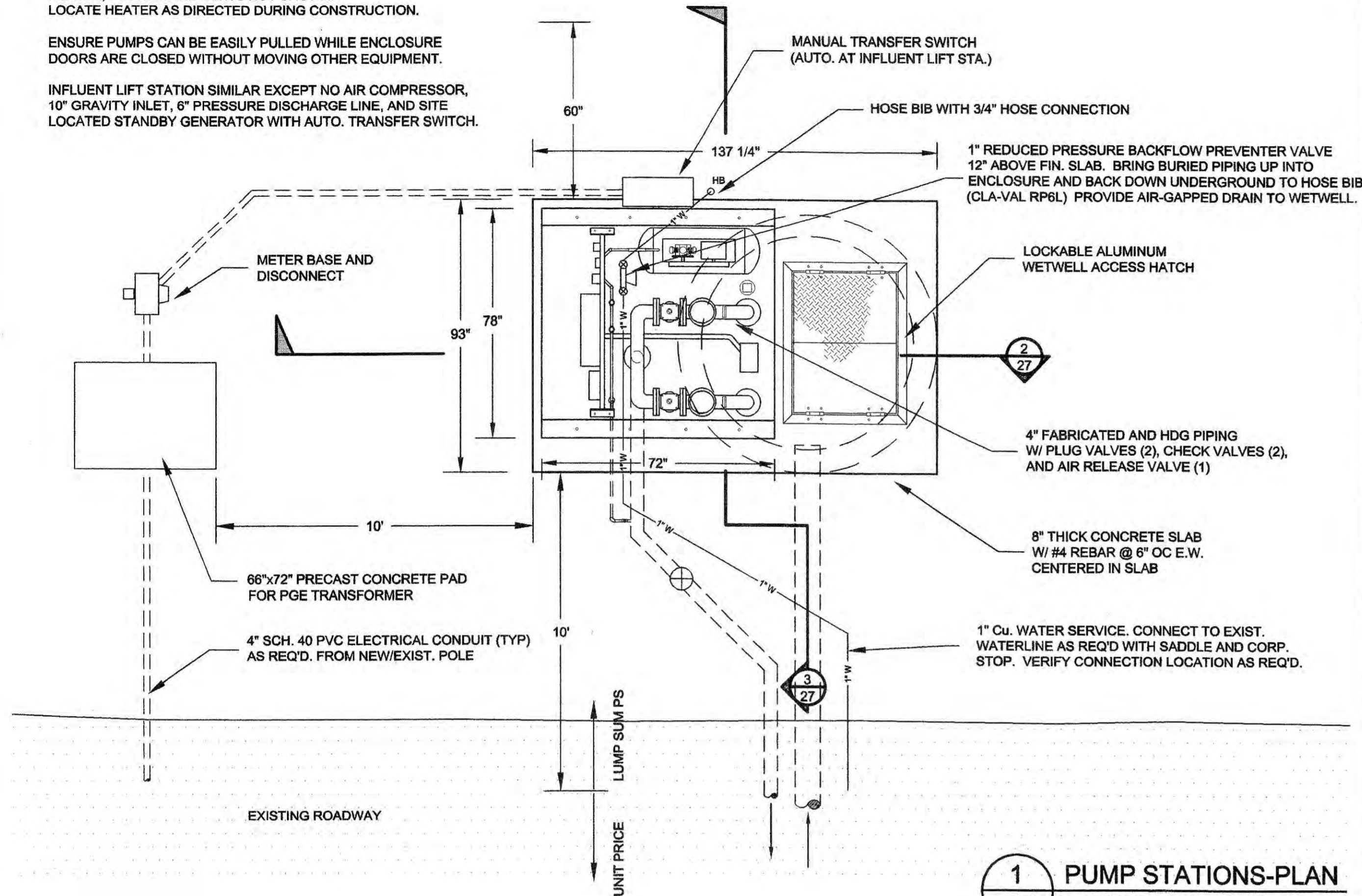
CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PLAN / PROFILE
OUTFALL LINE

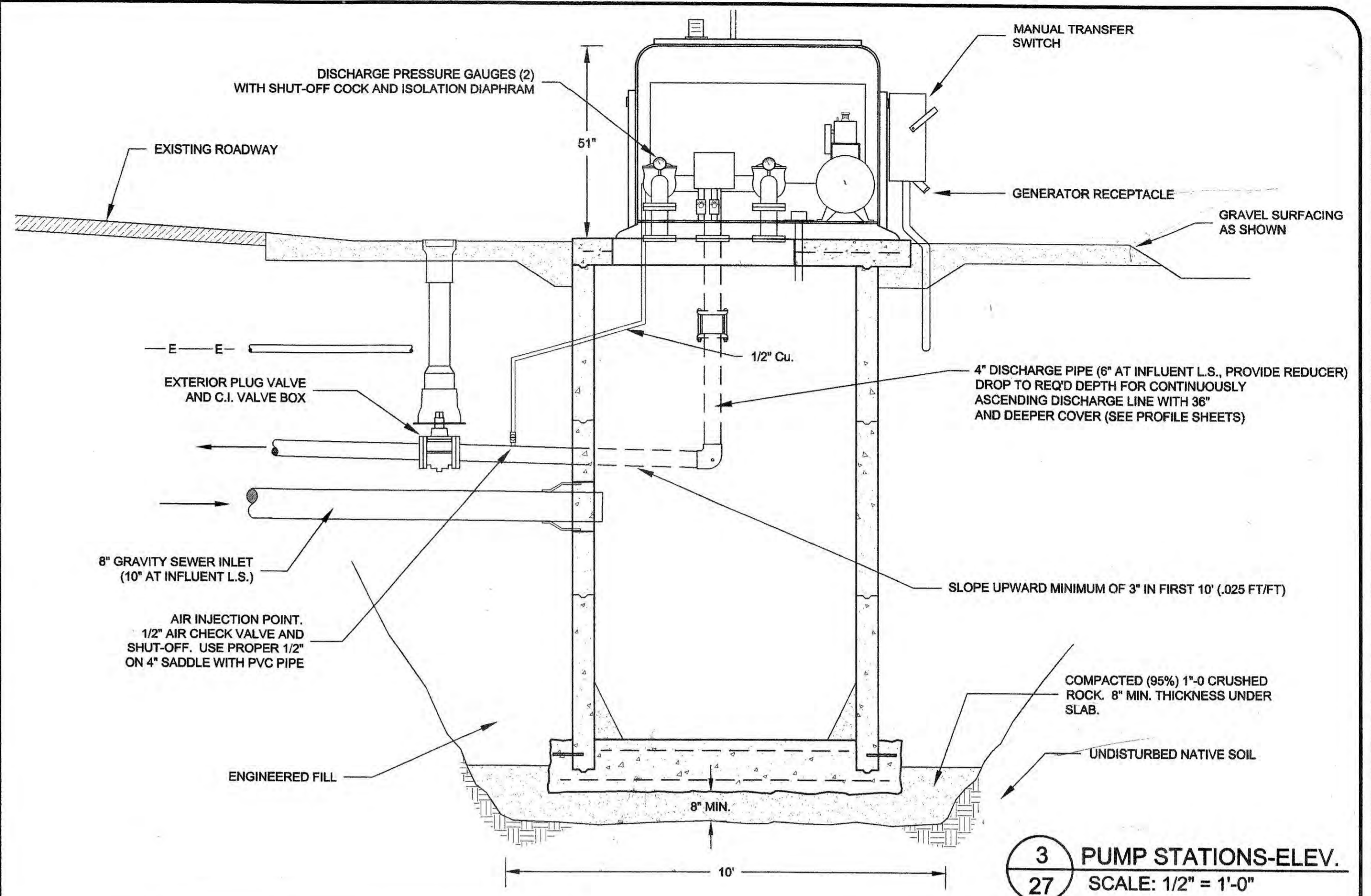
NOTES:
HEATER, BLOWER AND VENTS NOT SHOWN.
LOCATE HEATER AS DIRECTED DURING CONSTRUCTION.

ENSURE PUMPS CAN BE EASILY PULLED WHILE ENCLOSURE DOORS ARE CLOSED WITHOUT MOVING OTHER EQUIPMENT.

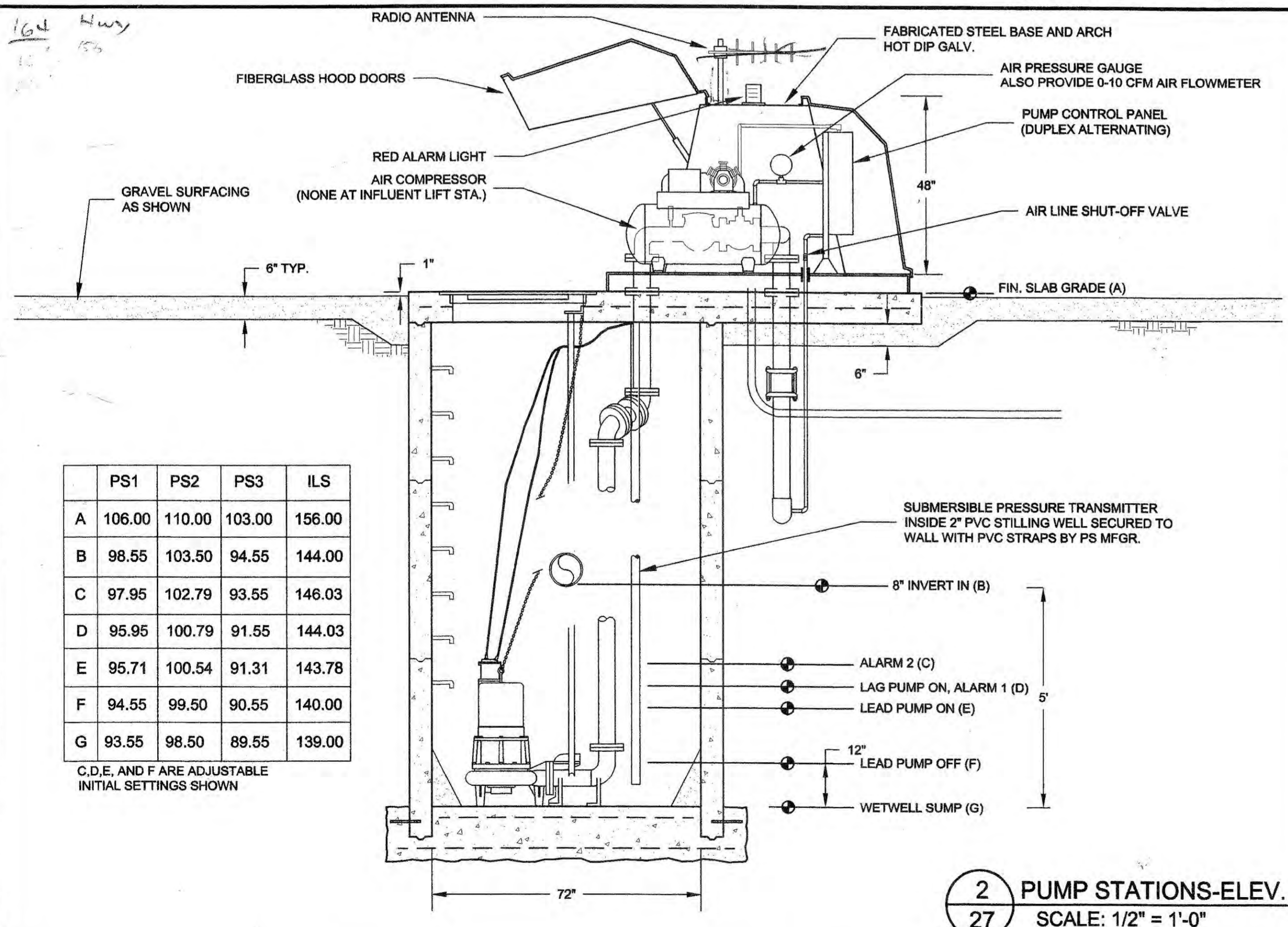
INFLUENT LIFT STATION SIMILAR EXCEPT NO AIR COMPRESSOR, 10" GRAVITY INLET, 6" PRESSURE DISCHARGE LINE, AND SITE LOCATED STANDBY GENERATOR WITH AUTO. TRANSFER SWITCH.



1 PUMP STATIONS-PLAN
27 SCALE: 3/8" = 1'-0"
(TYP. SEE SHEET 26)



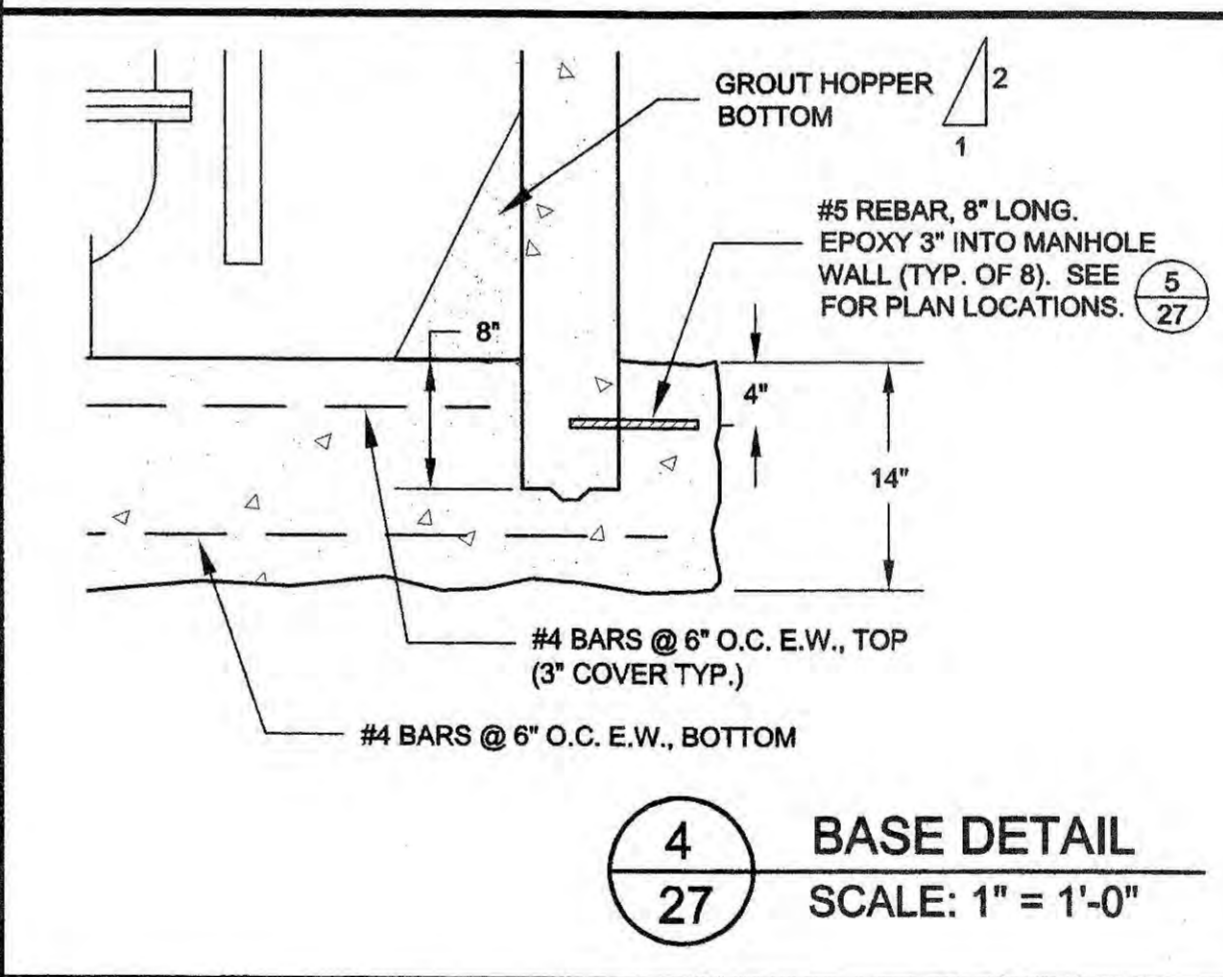
3 PUMP STATIONS-ELEV.
27 SCALE: 1/2" = 1'-0"



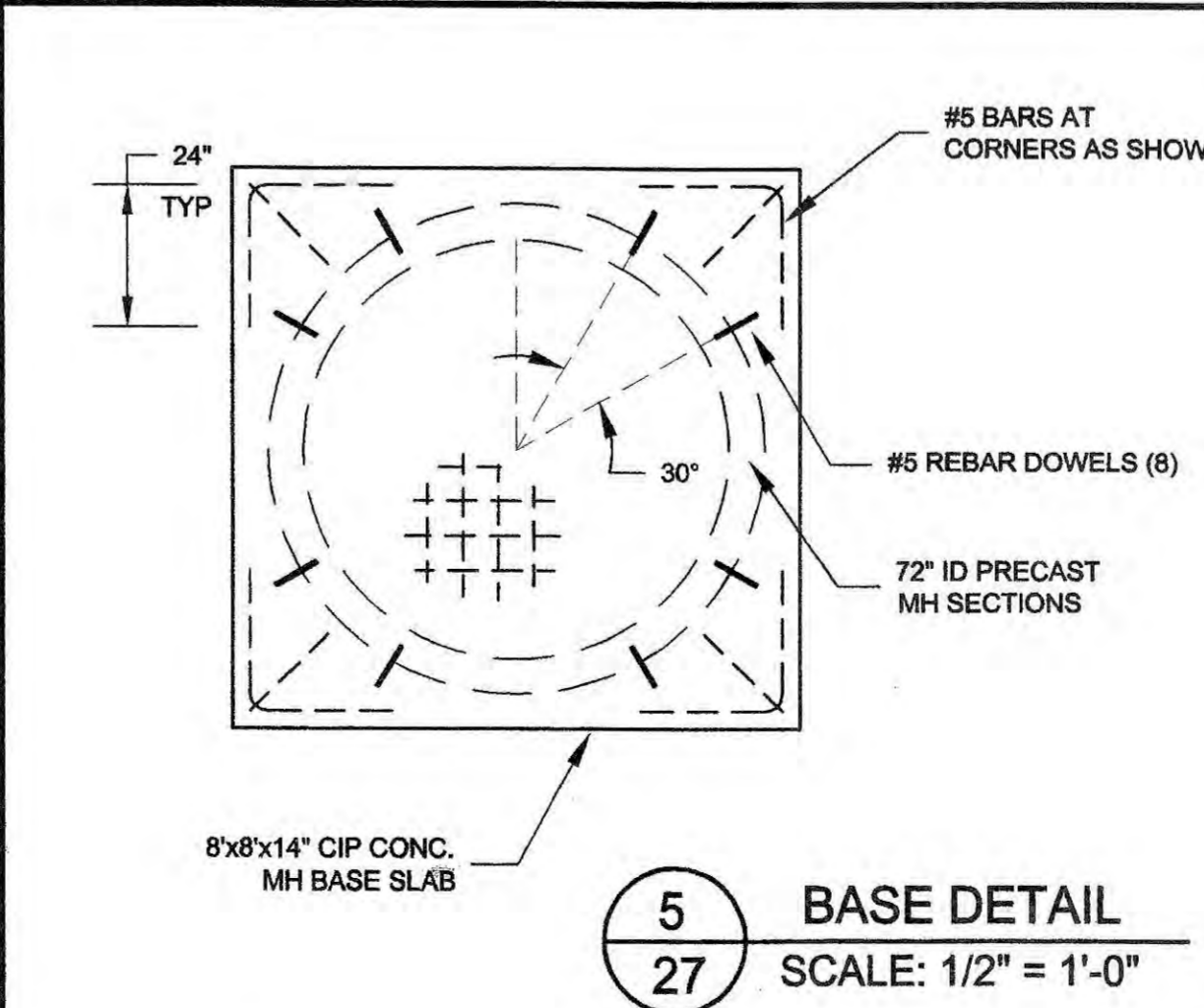
| | PS1 | PS2 | PS3 | ILS |
|---|--------|--------|--------|--------|
| A | 106.00 | 110.00 | 103.00 | 156.00 |
| B | 98.55 | 103.50 | 94.55 | 144.00 |
| C | 97.95 | 102.79 | 93.55 | 146.03 |
| D | 95.95 | 100.79 | 91.55 | 144.03 |
| E | 95.71 | 100.54 | 91.31 | 143.78 |
| F | 94.55 | 99.50 | 90.55 | 140.00 |
| G | 93.55 | 98.50 | 89.55 | 139.00 |

C,D,E, AND F ARE ADJUSTABLE INITIAL SETTINGS SHOWN

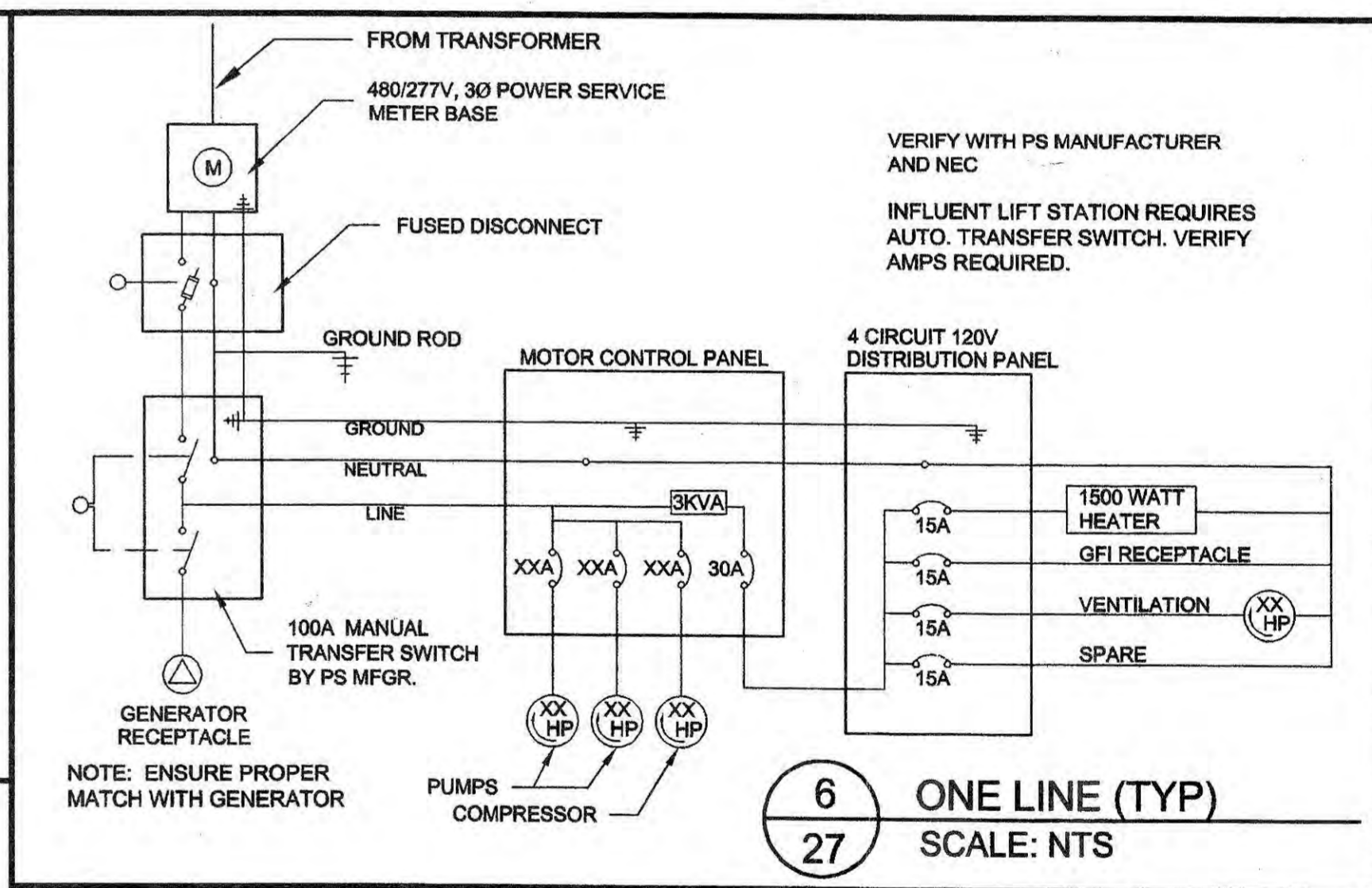
2 PUMP STATIONS-ELEV.
27 SCALE: 1/2" = 1'-0"



4 BASE DETAIL
27 SCALE: 1" = 1'-0"



5 BASE DETAIL
27 SCALE: 1/2" = 1'-0"



6 ONE LINE (TYP)
27 SCALE: NTS

NOTES:
PUMPS, BASE ELBOWS, LIFTING SYSTEM, ENCLOSURE AND BASE, CABLES TO PUMPS, LEVEL CONTROLS, ACCESS HATCH, TELEMETRY SYSTEM, TRANSFER SWITCH AND GENERATOR RECEPTACLE, AND ALL EQUIPMENT AND MATERIALS INSIDE ENCLOSURE, INCLUDING ELECTRICAL, AIR AND PIPING STUB-OUTS, SHALL BE SUPPLIED AS A PACKAGE BY A SINGLE PUMP STATION MANUFACTURER AS SPECIFIED.

CONTRACTOR SHALL COORDINATE WORK WITH PS MANUFACTURERS APPROVED SHOP DRAWINGS AND EQUIPMENT FOR EXACT LOCATION OF PIPES THRU CONCRETE SLAB AND LOCATION OF ACCESS HATCH, ANCHOR BOLTS, AND OTHER IMBEDDED ITEMS.

CONTRACTOR SHALL NOTIFY GAS COMPANY PRIOR TO DIGGING NEAR GAS LINES. ADEQUATELY LOCATE GAS LINE IN ADVANCE OF NEW WORK TO ENSURE PROPER CLEARANCE BETWEEN NEW PIPES AND CONDUITS AND THE EXISTING GAS LINES.

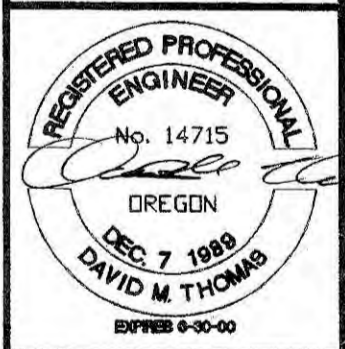
CONTRACTOR SHALL COORDINATE WITH PGE IN INSTALLING NEW POWER SERVICE TO THE PUMP STATIONS.

PUMP STATION MANUFACTURER SHALL PROVIDE SHOP DRAWINGS SHOWING ALL EQUIPMENT AND MISC. ITEMS IN EXACT PROPOSED LOCATIONS FOR APPROVAL. INCLUDE DRAWINGS OF PANEL AND ELECTRICAL DIAGRAMS.

BST, Inc.
engineers, planners, construction managers
4025 ridge lane
west linn, oregon 97068
telephone (503) 650-4919 fax (503) 650-4935

CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
PUMP STATION DETAILS



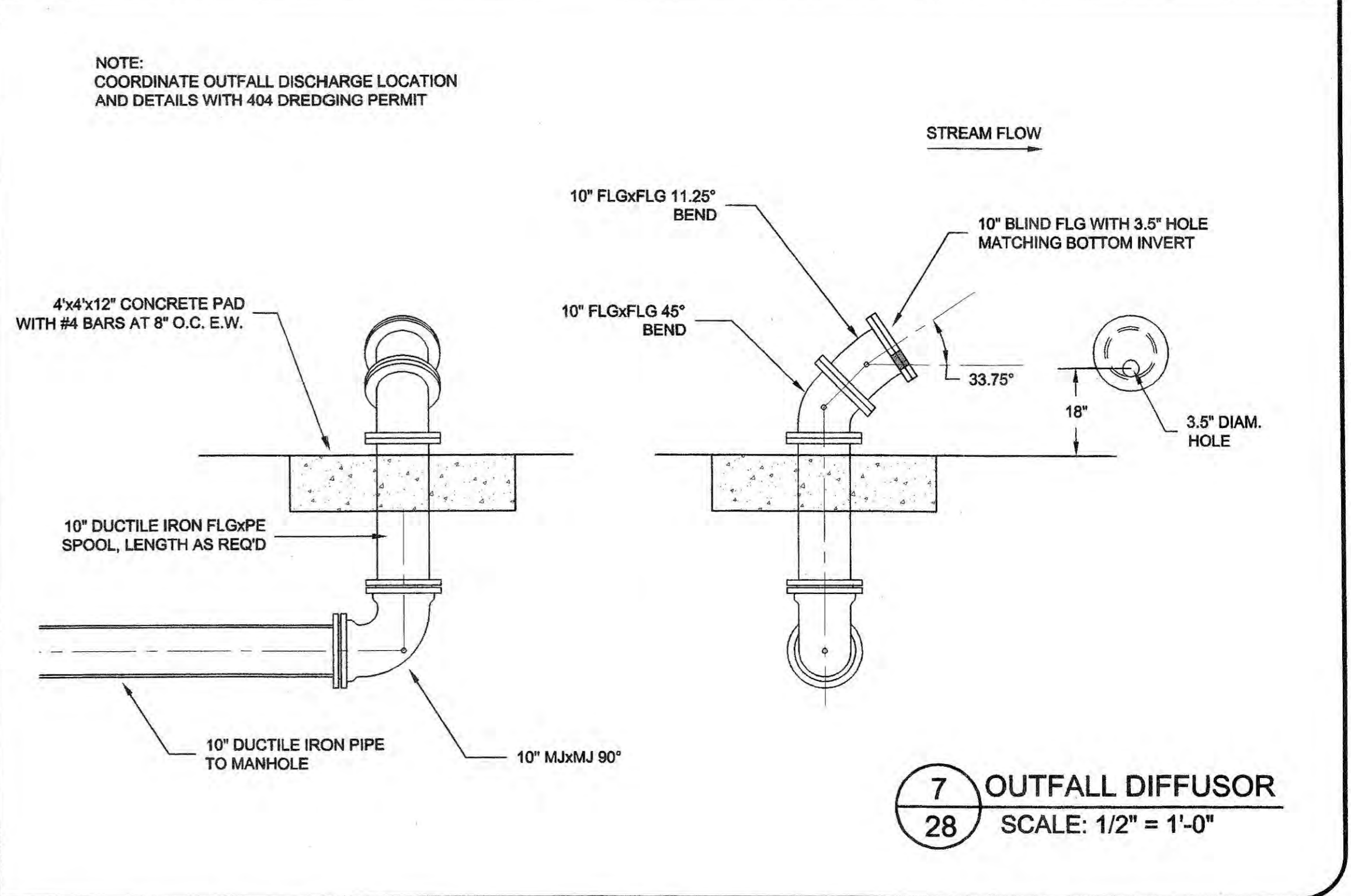
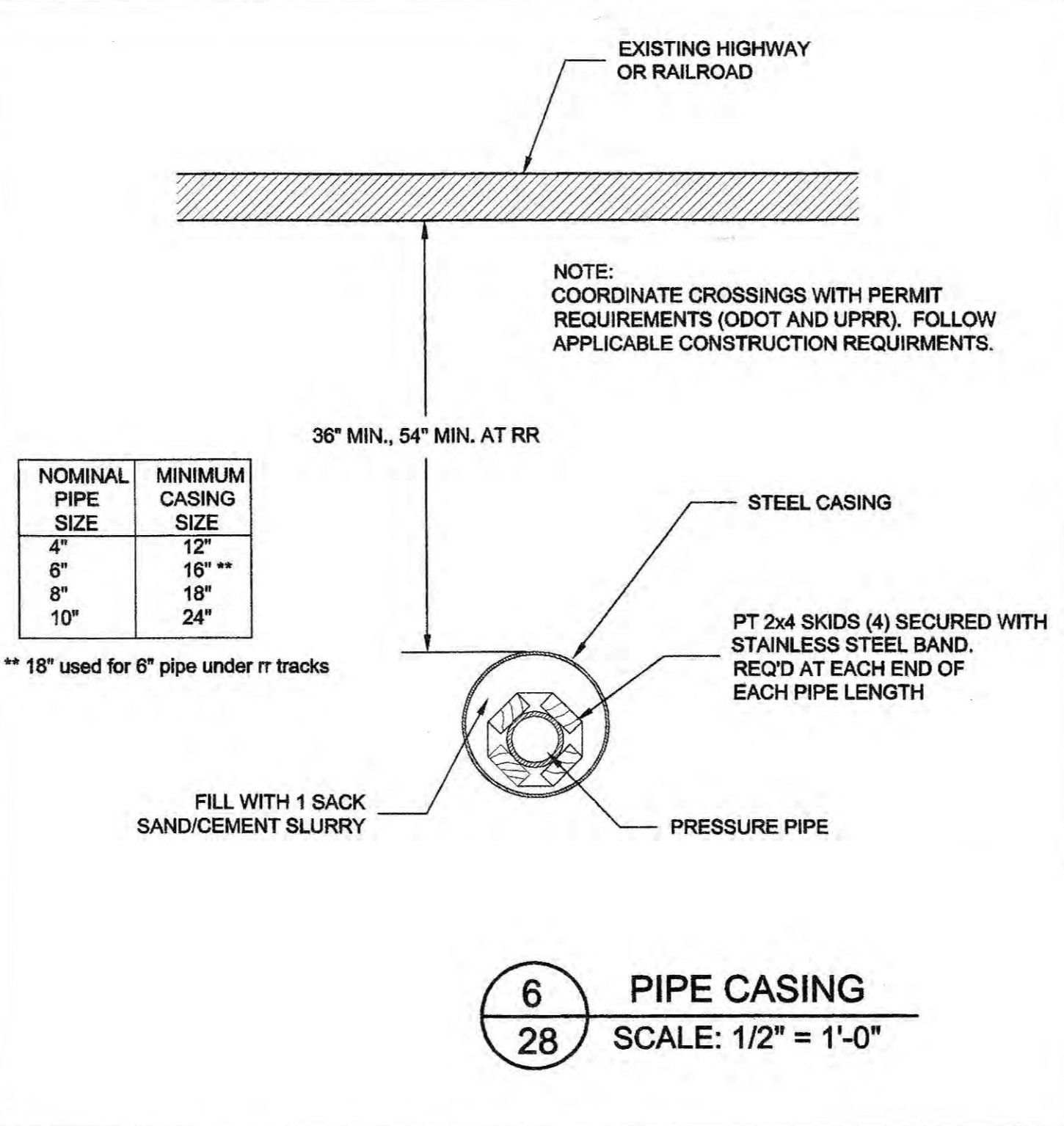
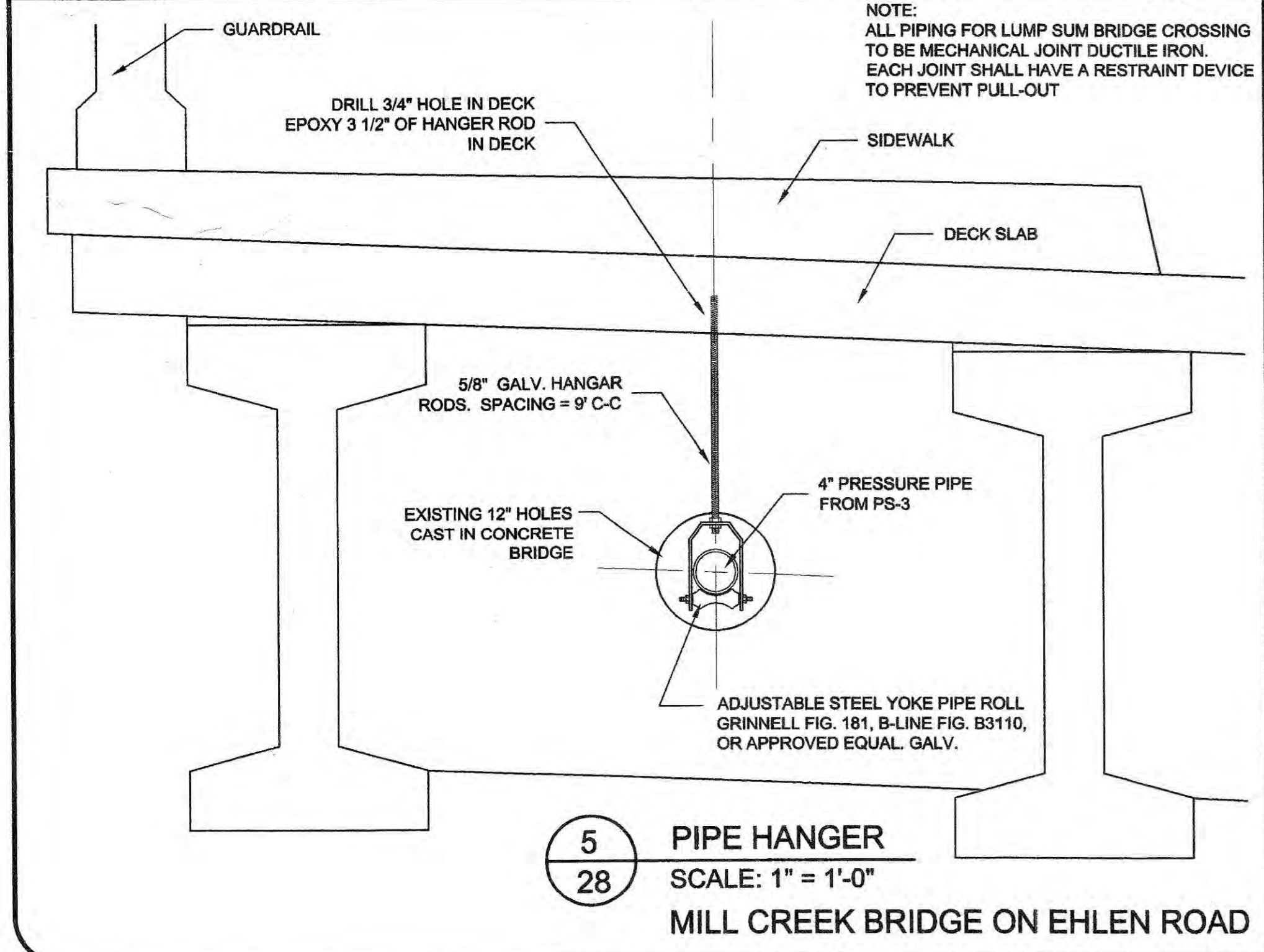
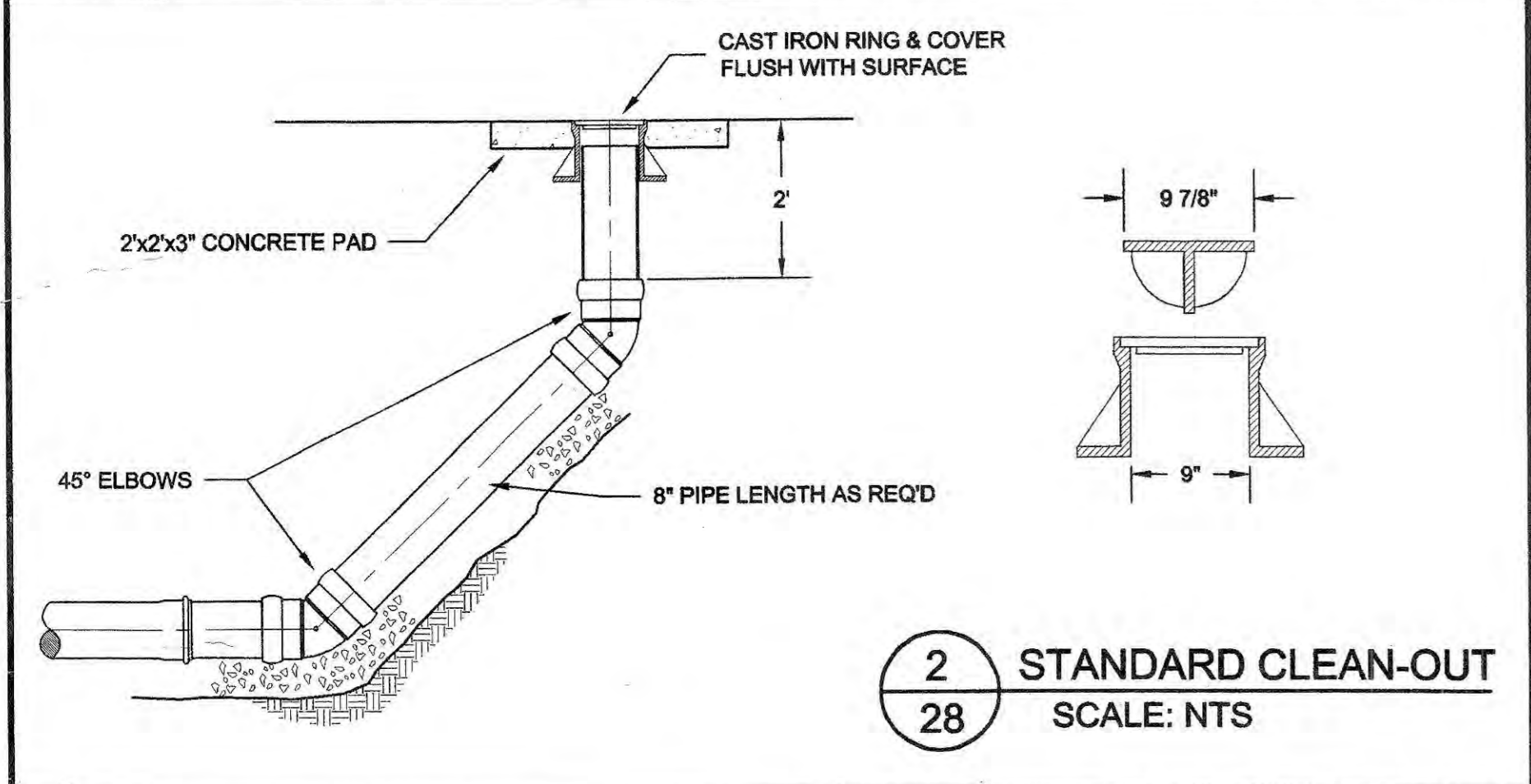
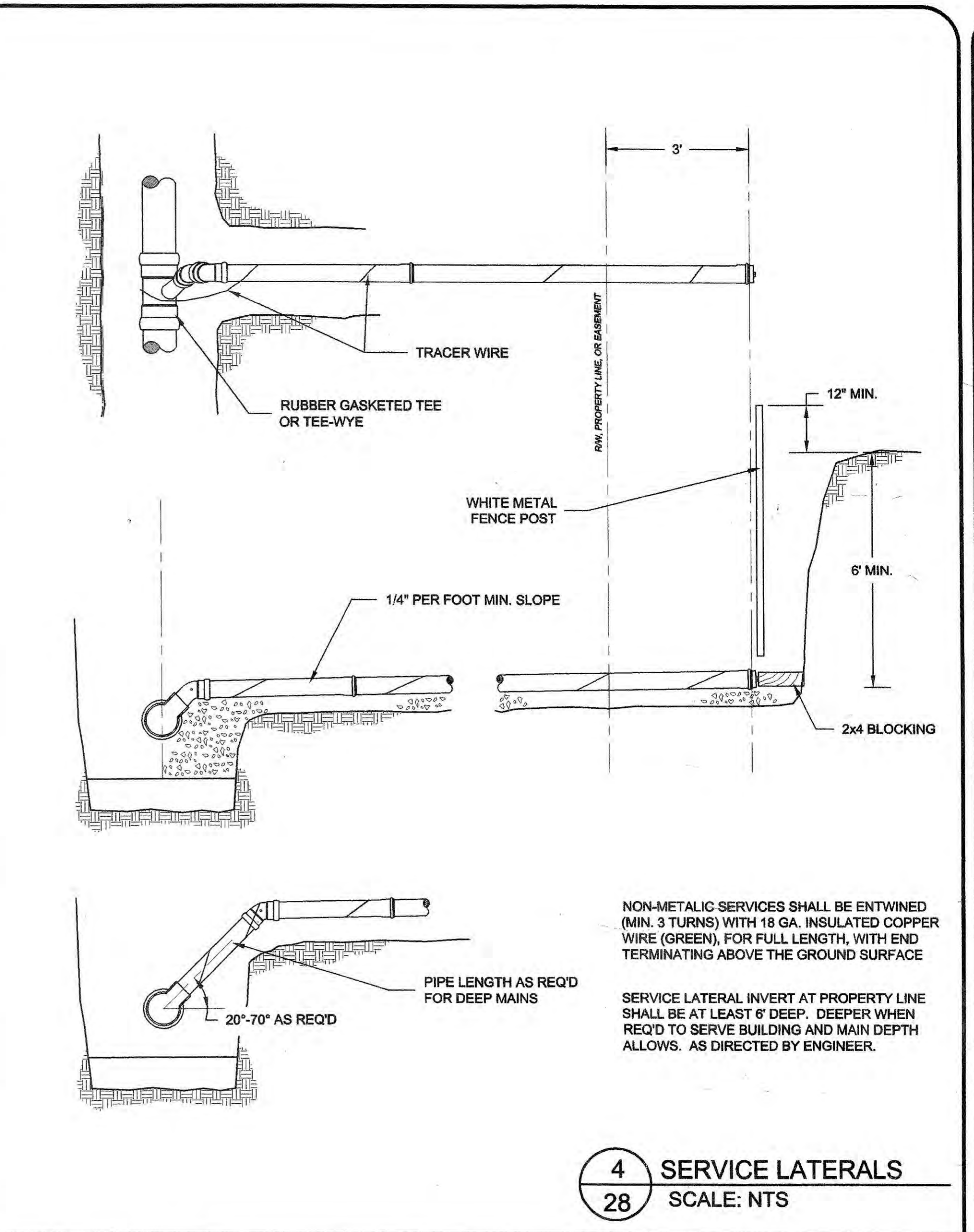
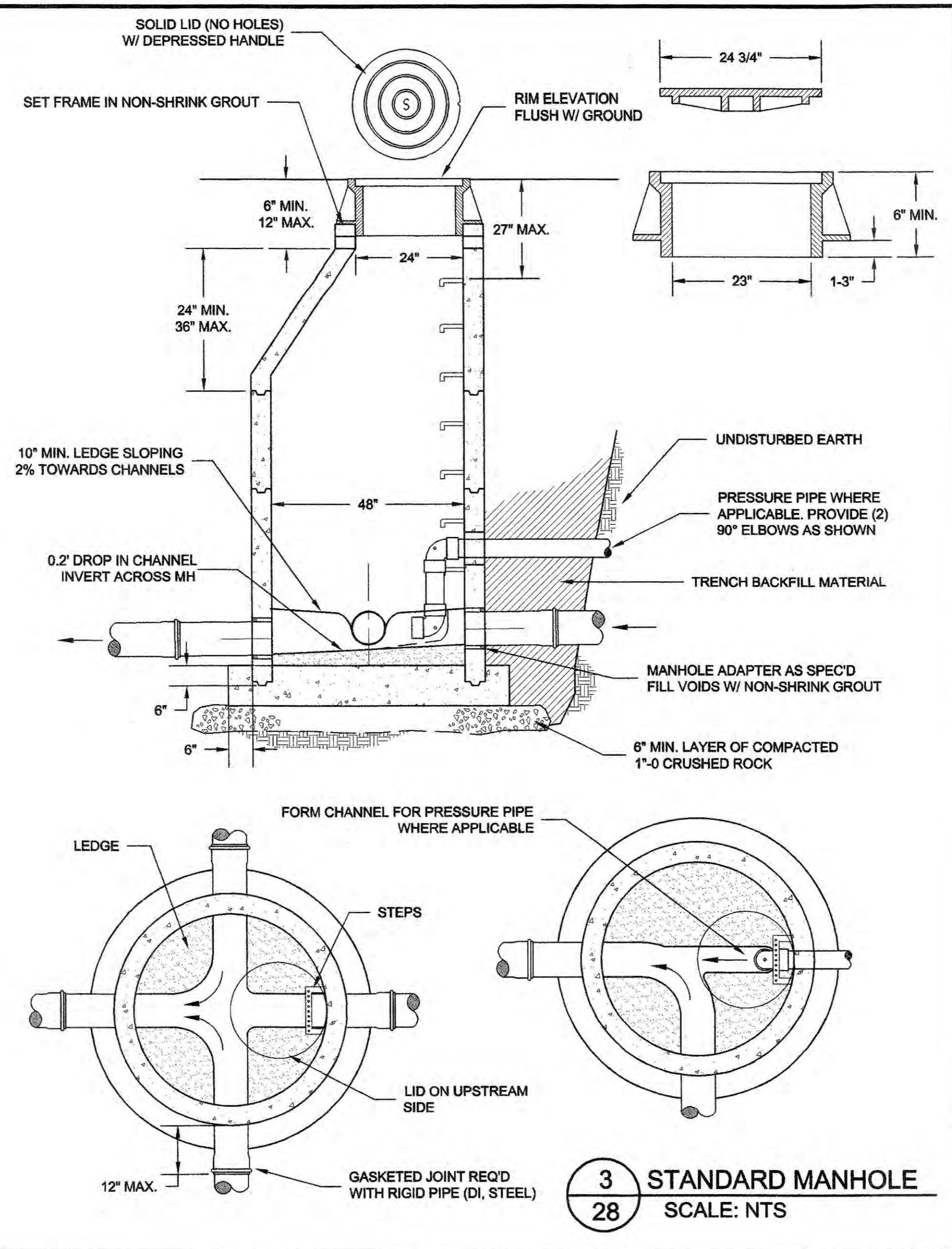
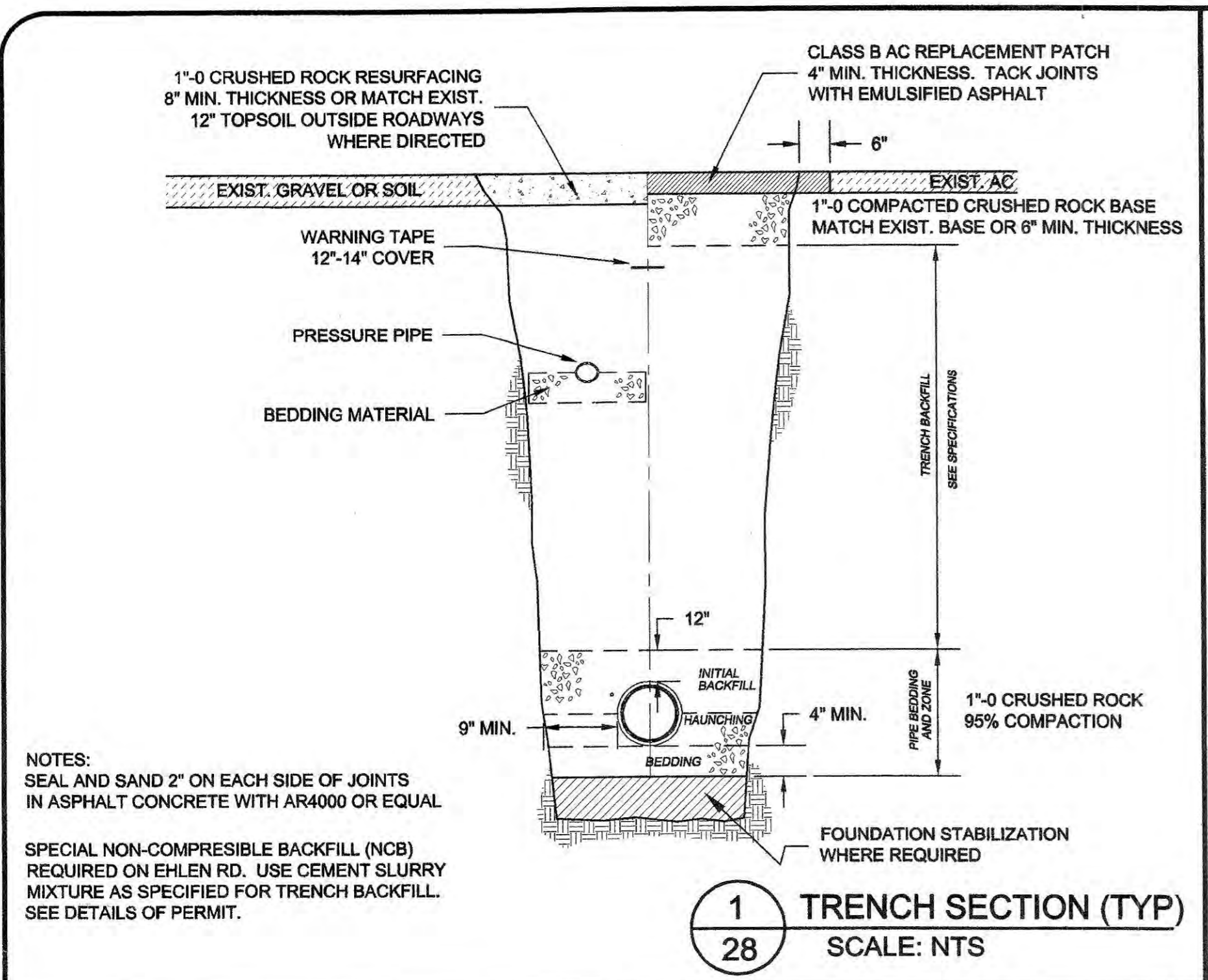
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JOB NO. 9706



BST, Inc.
engineers, planners, construction managers
4025 ridge lane
west linn, oregon 97068
telephone (503) 650-4919 fax (503) 650-4935

CITY OF AURORA
MARION COUNTY, OREGON
WASTEWATER COLLECTION SYSTEM

WASTEWATER COLLECTION SYSTEM
TRENCH SECTION,
MANHOLE, MISC. DETAILS

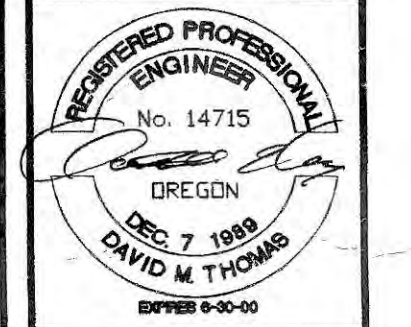
REGISTERED PROFESSIONAL ENGINEER
No. 14,715
OREGON
DAVID B. THOMAS
Exp. 03-30-00

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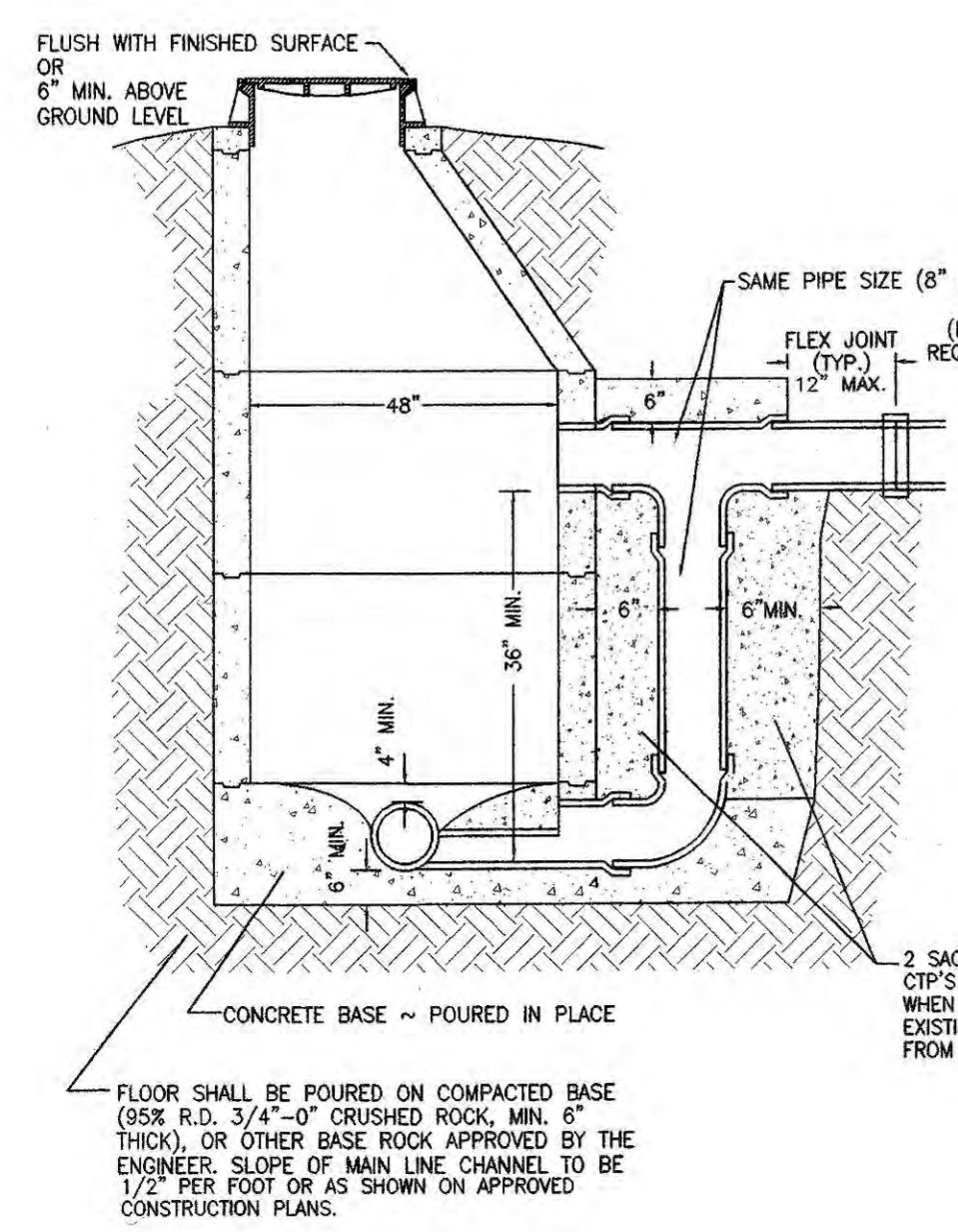
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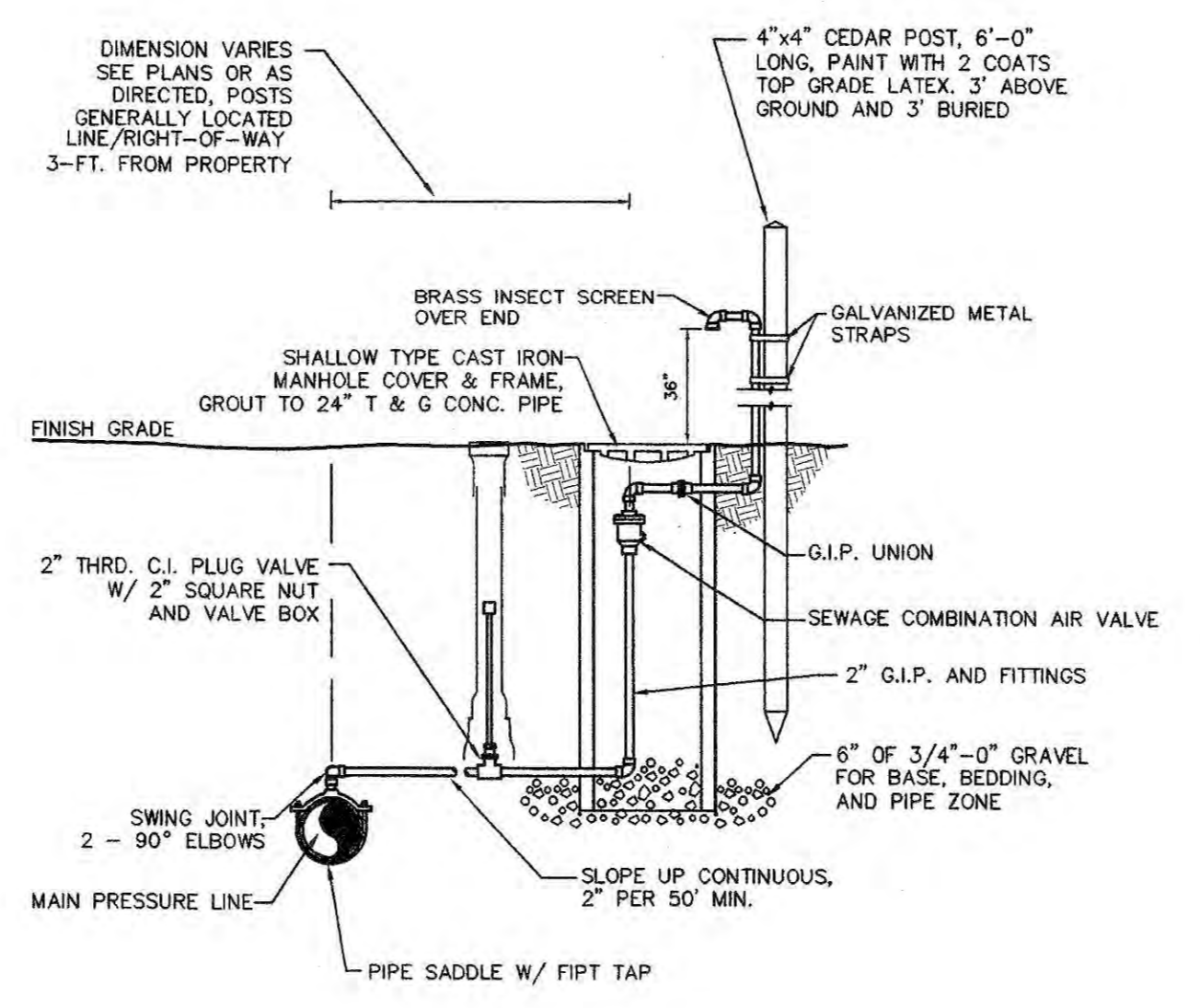


NOTES: CONCRETE BASE SHALL BE 6 SACKS PORTLAND CEMENT PER CUBIC YARD OF CONCRETE, AND SHALL REACH 3300 P.S.I. IN 28 DAYS.
SET JOINTS INSIDE & OUT IN 1:2 MORTAR. ALTERNATE BUTYL JOINT SEALANT ST-8, 1" WIRE, MEETING FED. SPEC. SS-5-00210 (SSA-7SS).
FORM STRAIGHT "U" CHANNEL WITH SMOOTH, VERTICAL MORTAR SIDE. 1/2" PIPE ACCEPTABLE.
MAKE ANGULAR CHANGES WITH UNIFORM "U" CHANNEL, WITH SMOOTH CURVED PATH.
MAKE CHANGES IN CHANNEL SIZE WITH A SMOOTH, TAPERING TRANSITION.
FINISH PIPE ENDS FLUSH WITH INSIDE WALLS. PROVIDE MANUFACTURED FLEX JOINTS WITHIN 12" OF OUTSIDE WALL FACE FOR ALL 6" AND 8" PIPES. CAULDER COUPLINGS NOT PERMITTED.
WHEN PVC IS USED, PROVIDE MANUFACTURED WATER STOP. FLEX JOINT NOT REQUIRED.
STANDARD MANHOLE COVER MARKED "S" FOR SEWER, "D" FOR DRAINAGE.
STRAIGHT FACE OF ECCENTRIC MANHOLE SECTION TO FACE DOWNSTREAM.
RING AND COVER TO PROJECT 6" ABOVE ADJACENT GROUND - OR BE FLUSH WITH FINISHED PAVEMENT SURFACE.
NO SEWER SERVICE LATERALS SHALL BE CONNECTED DIRECTLY TO MANHOLES.
WATER TIGHT LID REQUIRED IF SEWER MANHOLE IS LOCATED WHERE IT MAY BE SUBMERGED.

2 SACK SLURRY MIX OR 1 SACK CIP'S ALLOWED AROUND DROP WHEN DROP IS INSTALLED TO EXISTING MH. SLURRY ALLOWED FROM O.D. OF MANHOLE

(FLEX JOINT NOT REQUIRED WHEN PVC IS USED)

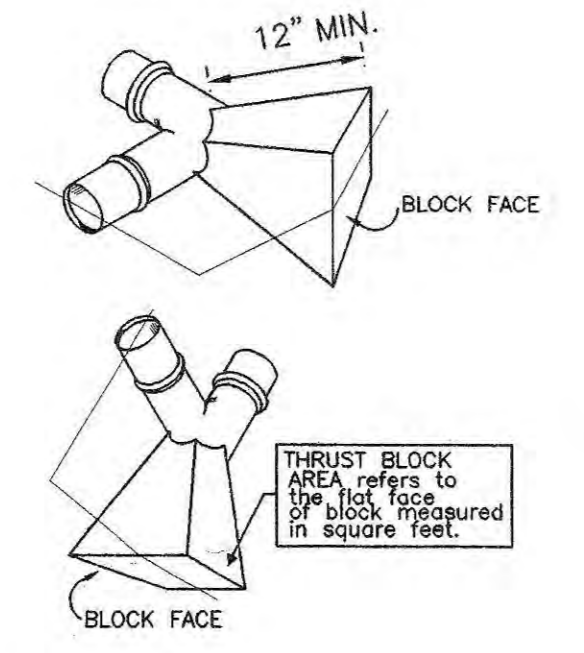
1 DROP MANHOLE (TYP)
29 SCALE: NTS



2 SEWAGE COMB. AIR VALVE
29 SCALE: NTS

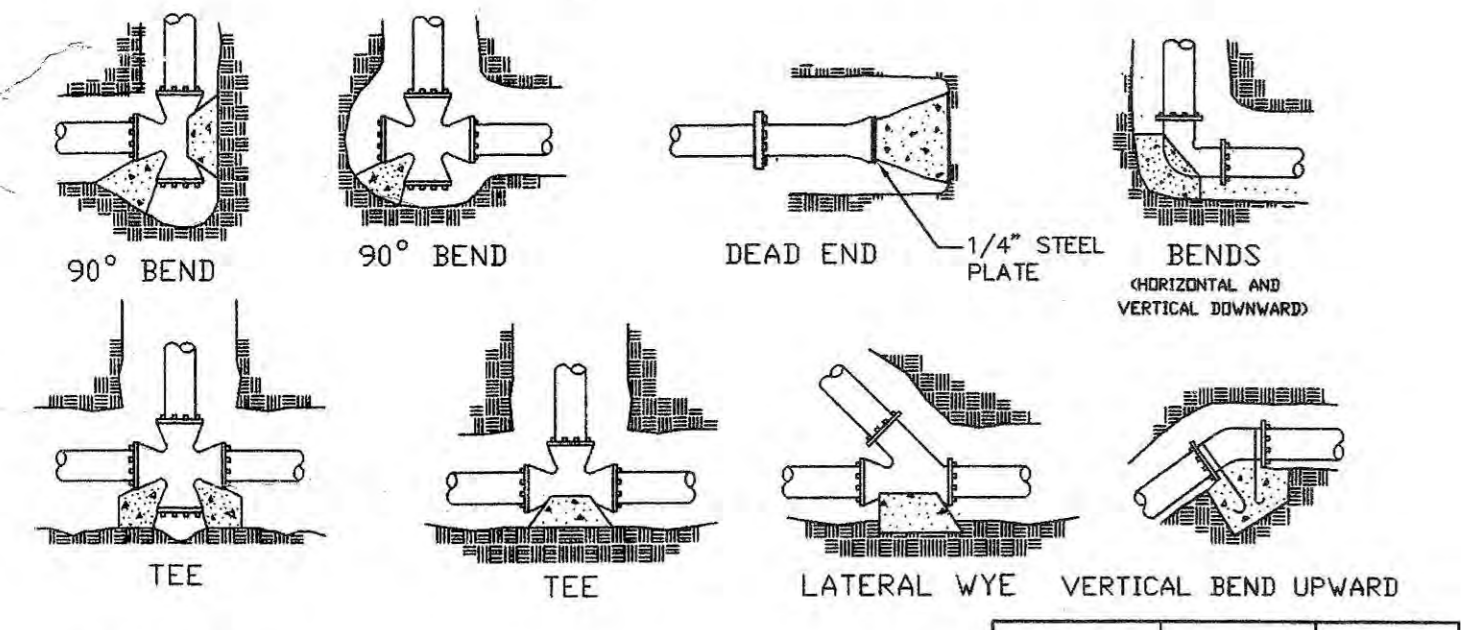
THRUST AT FITTINGS IN LBS. (AT 150 PSI)

| Pipe Ø (in.) | 90° | 45° | 22½° | 11¼° | Tees, Dead Ends |
|--------------|---------|--------|--------|--------|-----------------|
| 2 | 1,000 | 541 | 276 | 139 | 707 |
| 3 | 2,249 | 1,217 | 621 | 312 | 1,590 |
| 4 | 3,999 | 2,164 | 1,103 | 554 | 2,827 |
| 6 | 8,997 | 4,869 | 2,482 | 1,247 | 6,362 |
| 8 | 15,994 | 8,656 | 4,413 | 2,217 | 11,310 |
| 10 | 24,991 | 13,525 | 6,895 | 3,484 | 17,671 |
| 12 | 35,987 | 19,476 | 9,929 | 4,988 | 25,447 |
| 14 | 48,983 | 26,509 | 13,514 | 6,790 | 34,636 |
| 16 | 63,978 | 34,624 | 17,651 | 9,068 | 45,239 |
| 18 | 80,972 | 43,821 | 22,340 | 11,224 | 57,256 |
| 20 | 99,965 | 54,101 | 27,580 | 13,857 | 70,686 |
| 24 | 143,949 | 77,905 | 39,716 | 19,954 | 101,788 |



FOR HORIZONTAL AND VERTICAL BENDS DOWNWARD: THRUST BLOCK AREA SHALL BE CALCULATED BY DIVIDING THE THRUST IN LBS. BY 2000 PSF.

FOR VERTICAL BENDS UPWARD: THRUST BLOCK VOLUME SHALL BE CALCULATED BY DIVIDING THE THRUST IN LBS. BY 3900.

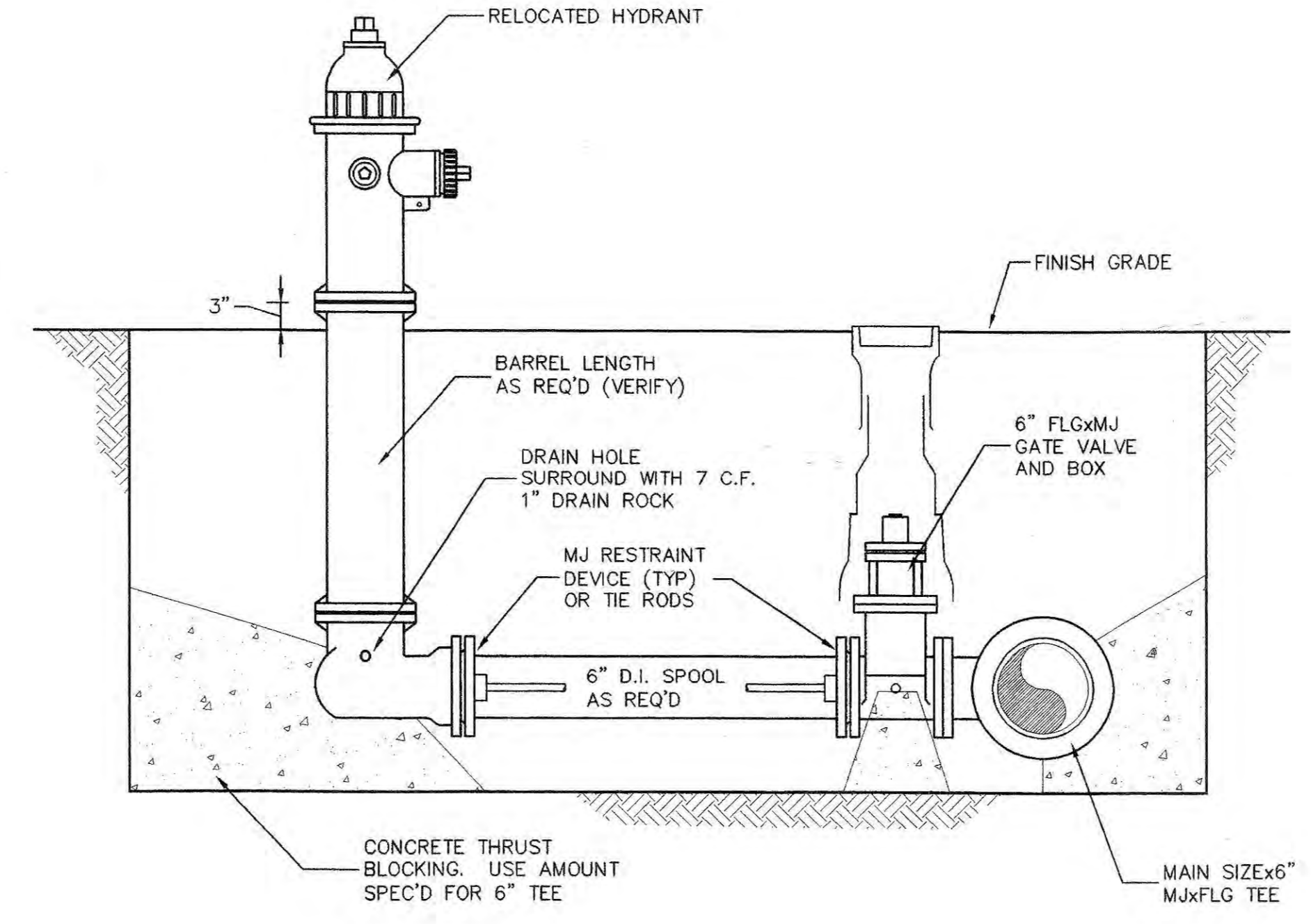


NOTES:
- CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH.
- CONCRETE SHALL HAVE 2500 PSI MIN. STRENGTH
- INSTALL FELT PAPER BETWEEN FITTING AND CONCRETE BEFORE POURING
- A VALUE HIGHER THAN 2000 PSF MAY BE USED FOR SOIL BEARING CAPACITY WHEN APPROVED BY ENGINEER AND WARRANTED BY SOIL CONDITIONS

| FITTING SIZE | ROD SIZE | EMBEDMENT |
|--------------|----------|-----------|
| 12" AND LESS | #6 | 30" |
| 14"-16" | #8 | 36" |

THRUST ON REDUCERS IS THE DIFFERENCE BETWEEN VALUES FOR DEAD ENDS FOR EACH END SIZE (IE. 6x8: 11,310 - 6,362 = 4,948 LBS.)

3 THRUST BLOCKING FOR PRESSURE LINES
29 SCALE: NTS



4 HYDRANT DETAIL
29 SCALE: NTS