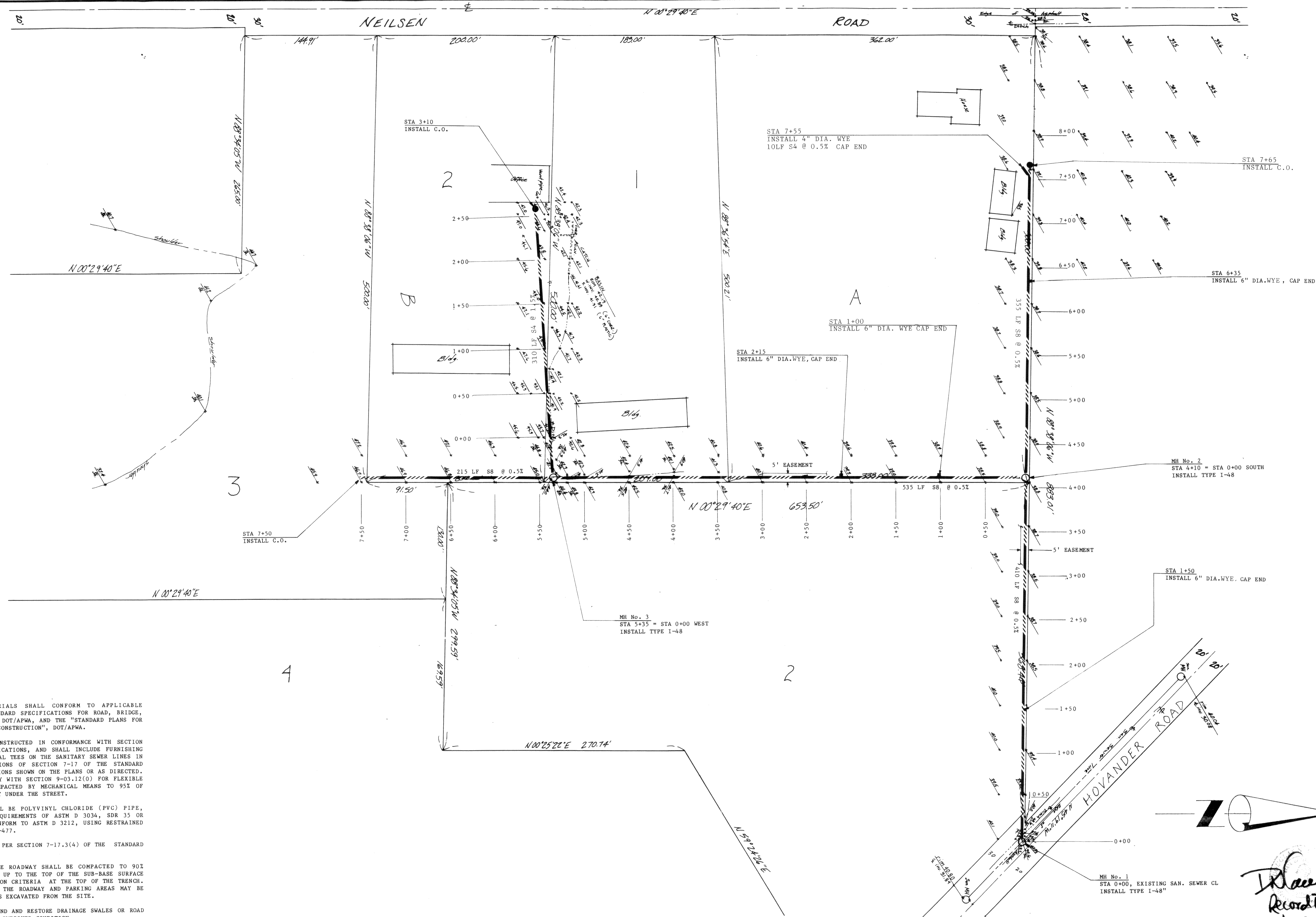
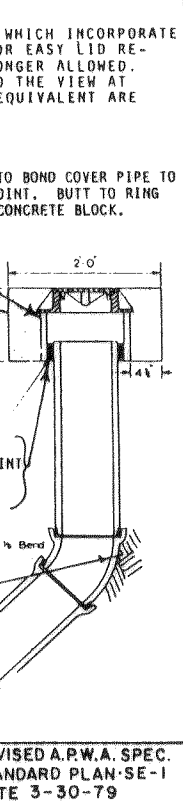
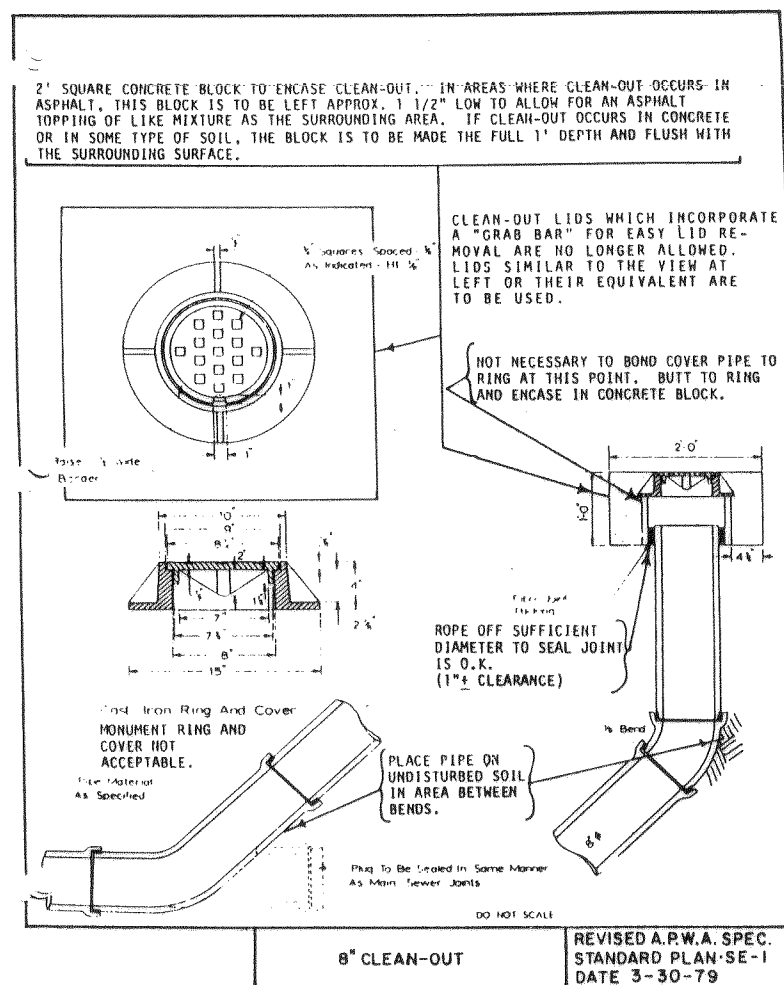




REVISIONS	Drwn. by	Date	Chkd. by	Date	APPROVED FOR CONSTRUCTION:	Seal	Seal	REFERENCES	ASSOCIATED PROJECT CONSULTANTS, INC.	Drawn by: S.R.V. Date: 8/24/89	Client:	AL LEISHMAN	JOB NO. 89-155	
1					Title:			Field Bk. Page	ASSOCIATED PROJECT CONSULTANTS, INC. 1401 ASTOR STREET, BELLINGHAM, WA 98225 — 671-1146 366 MARTIN STREET, BOX 1697, BLAINE, WA 98230 — 332-5825	Checked by:	SANITARY SEWER	PLAN	DRAWING NO. 1	
2				APPROVED FOR DESIGN:			R.O.S.	Date:		Project:				
3				Title:			A.F.	H. Scale: 1"= 50'						Title:
4								V. Scale: 1"=						
5										Datum:			OF 2	



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DATE 3-30-79

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STANDARD P.W.A. SE-1
DATE 3-30-79

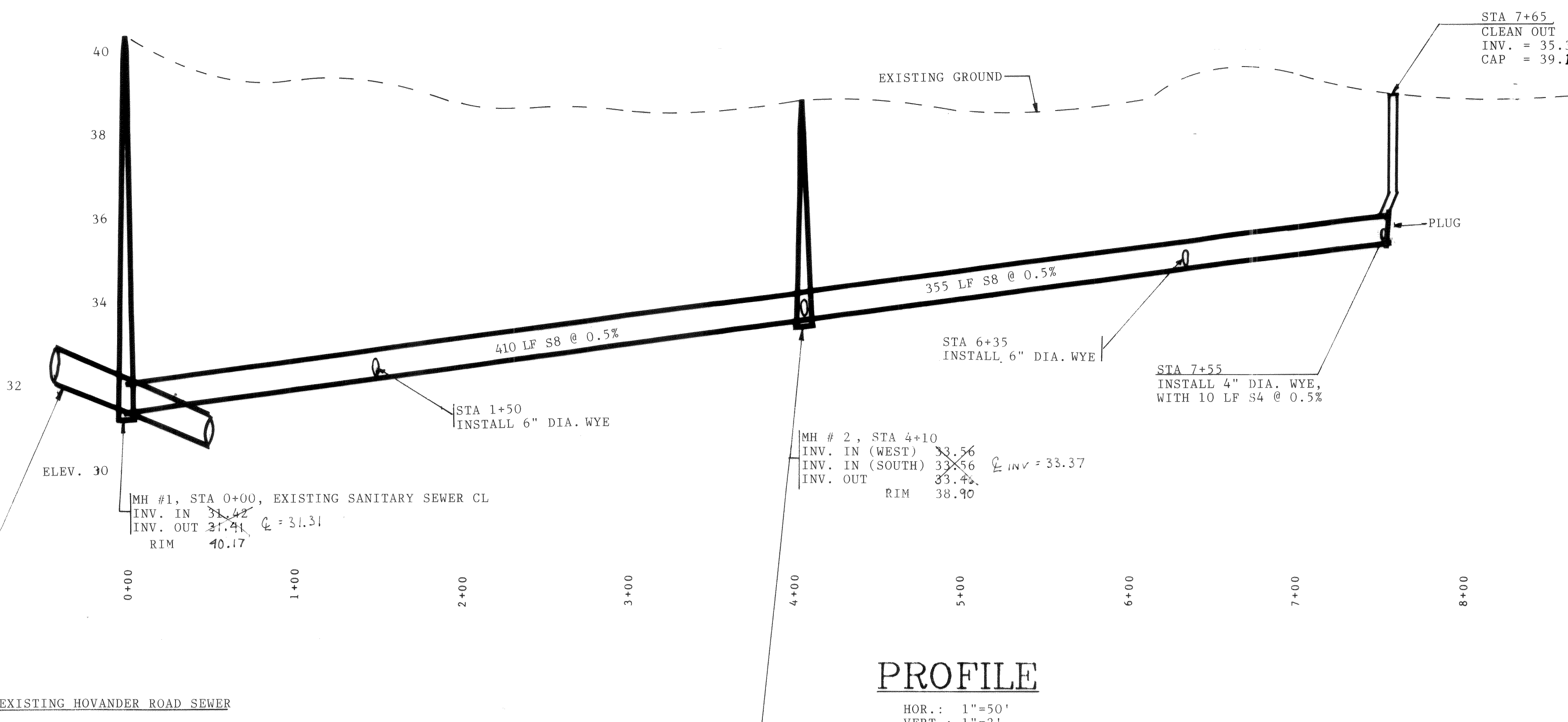
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STANDARD P.W.A. SE-1
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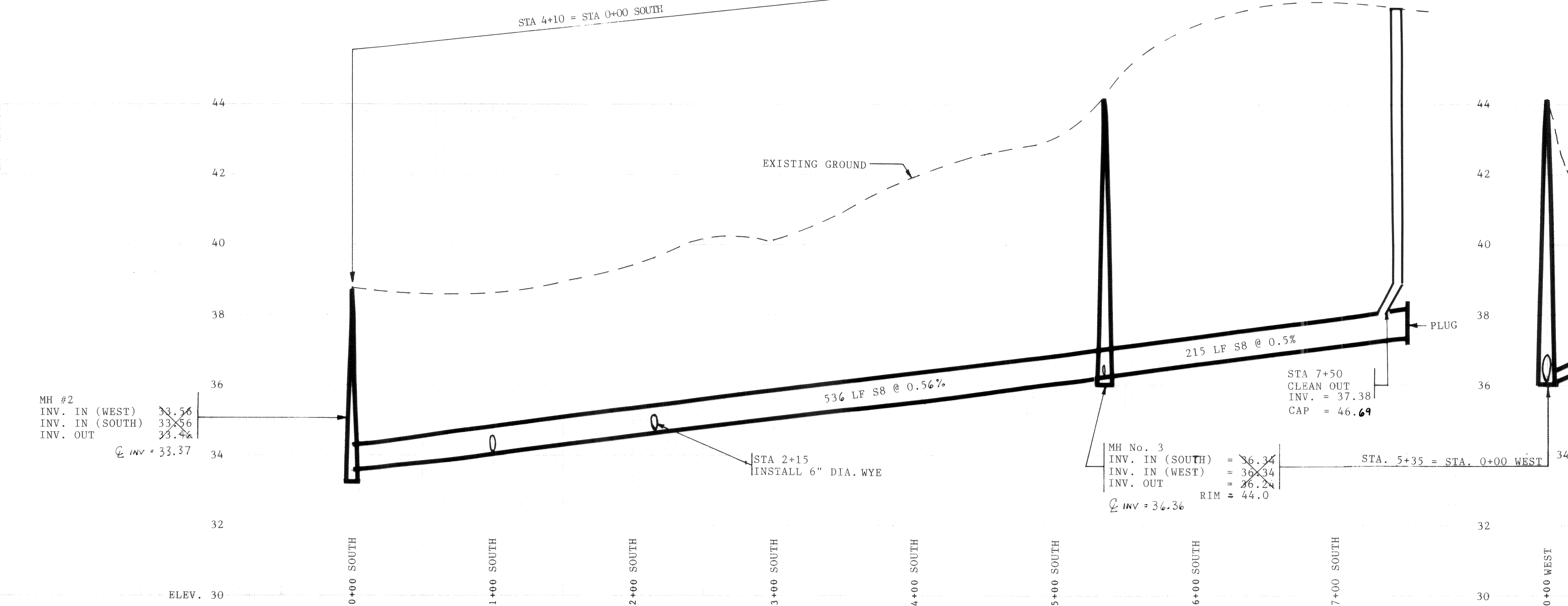
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STANDARD P.W.A. SE-1
DATE 3-30-79

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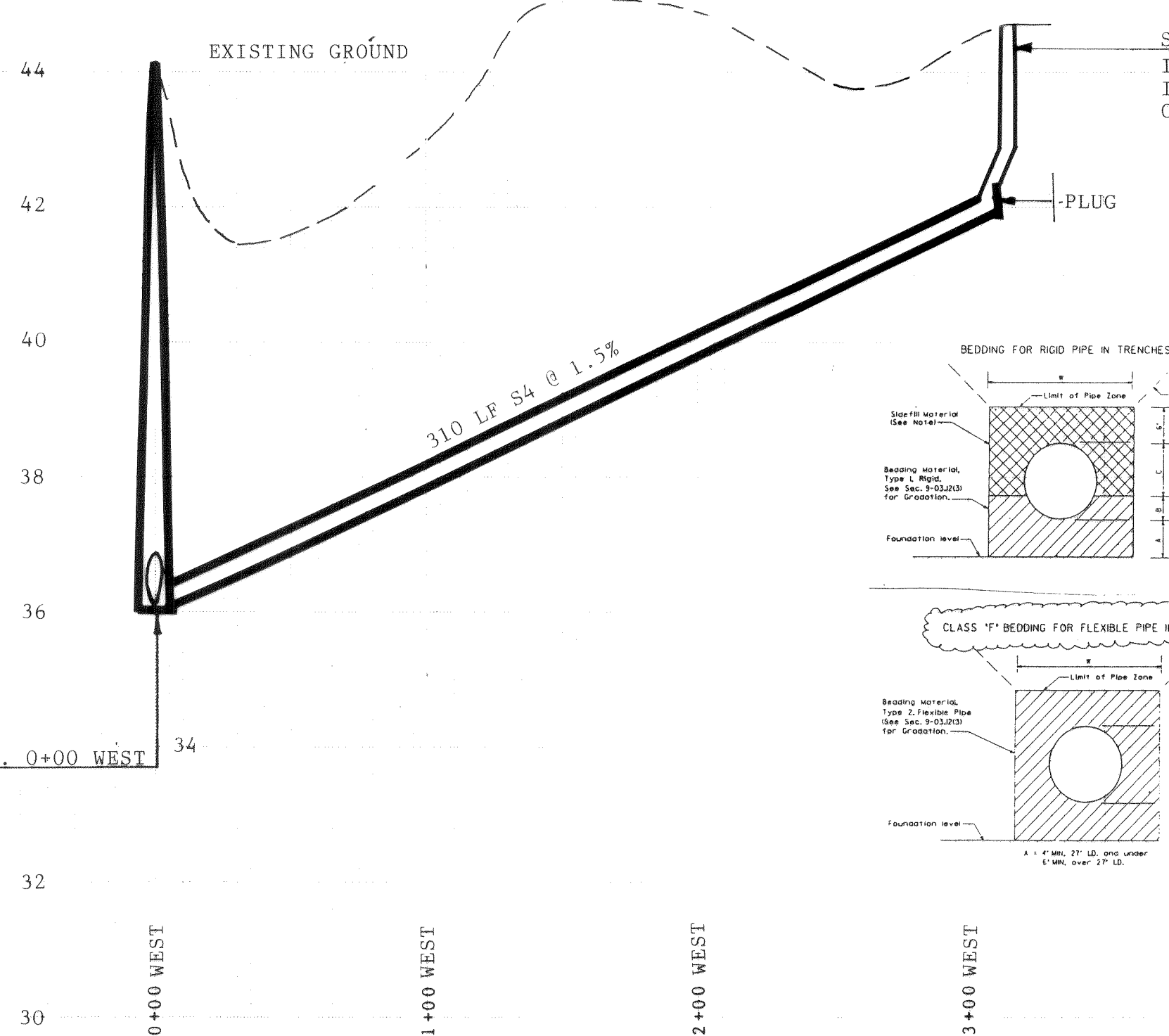
PROFILE

HOR.: 1"=50'
VERT.: 1"=2'



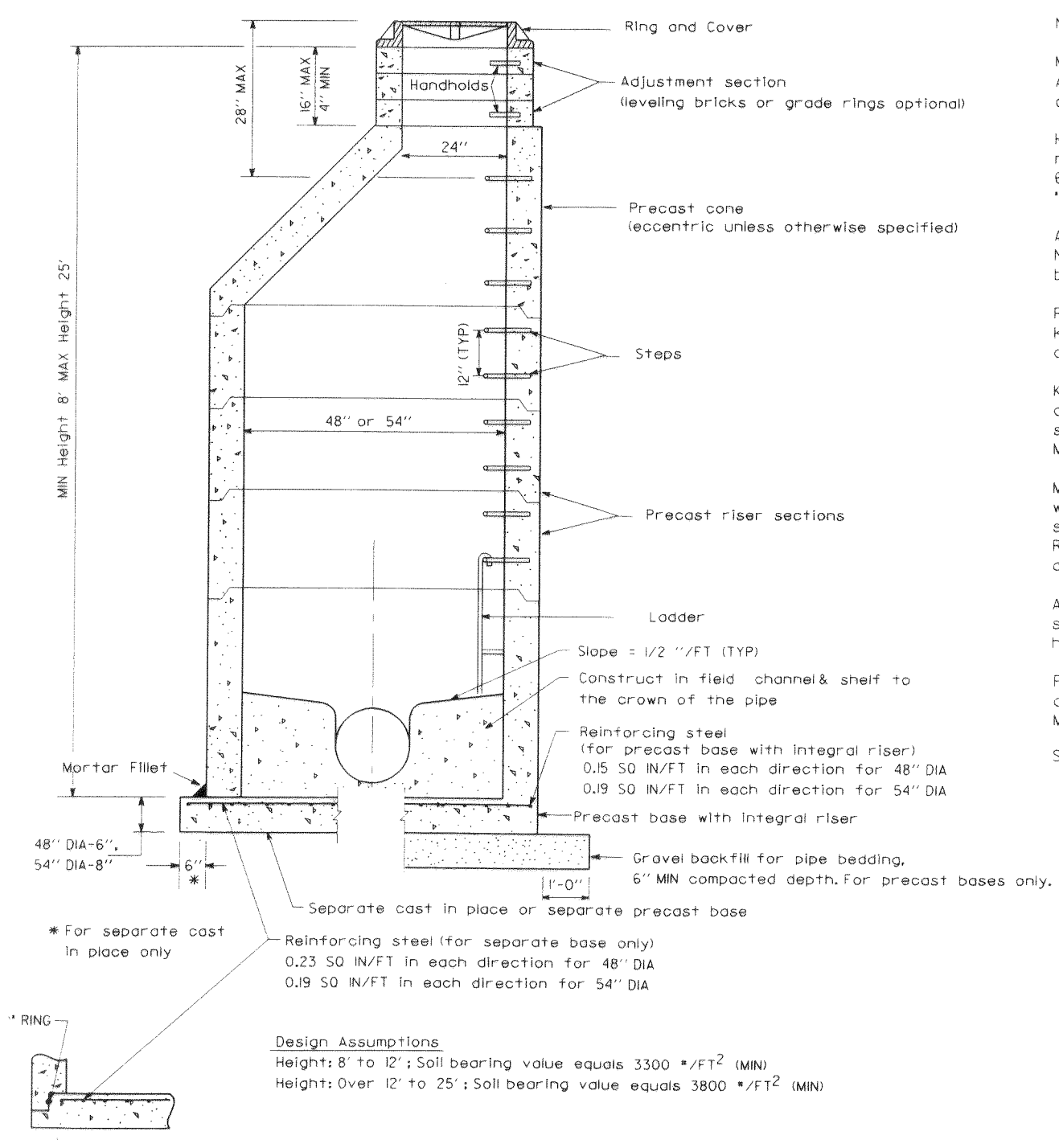
PROFILE-SOUTH LEG

HOR.: 1"=50'
VERT.: 1"=2'



PROFILE-WEST LEG

HOR.: 1"=50'
VERT.: 1"=2'



NOTES

Manholes to be constructed in accordance with AASHTO M-99 (ASTM C-478) unless otherwise shown on plans or noted in the Standard Specifications.

Handholds in adjustment section shall have 3\"/>

All reinforced cast in place concrete shall be Class A. Non-reinforced concrete in channel and shaft shall be Class C. All precast concrete shall be Class A.

Precast bases shall be furnished with cutouts or knockouts. Knockouts shall have a wall thickness of 2\"/>

Knockout or cutout hole size is equal to pipe outer diameter plus manhole wall thickness. Maximum hole size is 36\"/>

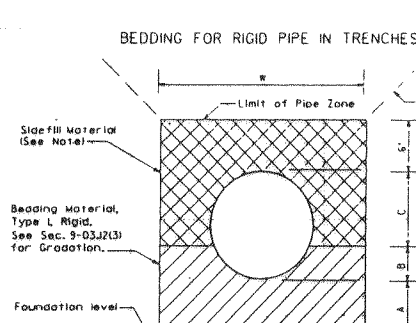
Manhole rings and covers shall be in accordance with Standard Specifications and meet the strength requirements of Federal Specification RR-1-520. Mating surfaces shall be finished to assure non-rocking fit with any cover position.

All base reinforcing steel shall have a minimum yield strength of 60,000 PSI and be placed in the upper half of the base with 1\"/>

For details showing Grade Ring, Ladder, Steps, Handholds and Top Slabs, see Standard Plan Miscellaneous Manhole Details.

See the Standard Specifications for joint requirements.

MANHOLE - TYPE I
48\"/>



NOTES

1. Provide uniform support under barrel.

2. Hand tamped under manholes.

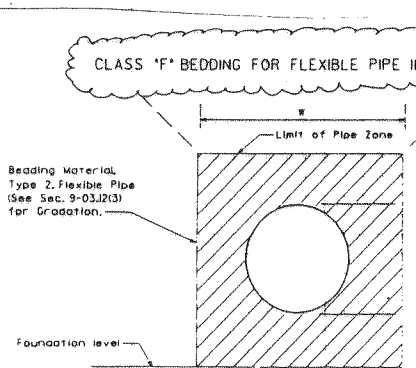
3. Compact bedding material to 95% wet density except directly over pipe, hand tamp only.

4. Make surface of bedding level or slope up only from pipe.

5. See Sec. 7-1.3.3 for trench width and trenching method. The pipe shall be laid on the bedding with the top of the pipe at least 1\"/>

6. See Sec. 7-1.3.3.3 for bedding material.

7. Bedding material shall conform to Sec. 7-1.3.3.3, except that rock or boulders larger than 1\"/>



NOTES

1. Provide uniform support under barrel.

2. Hand bedding under manholes.

3. See Sec. 7-1.3.3.3 for trench width and trenching method. The pipe shall be laid on the bedding with the top of the pipe at least 1\"/>

4. See Sec. 7-1.3.3.3 for bedding material.

5. Bedding material shall conform to Sec. 7-1.3.3.3, except that rock or boulders larger than 1\"/>

DIMENSION	CLASS A	CLASS B	CLASS C	CLASS D
A	4" MIN. 1/4" O.D. 12" MAX	4" MIN. 27" & UNDER		ZERO
B	1/4" O.D.	1/4" O.D.	3/8" O.D.	ZERO
C	3/4" O.D.	1/4" O.D.	3/4" O.D.	O.D.

REVISIONS 1 2 3 4 5	Drwn. by	Date	Chkd. by	Date	APPROVED FOR CONSTRUCTION:	Seal	Seal 	REFERENCES	ASSOCIATED PROJECT CONSULTANTS, INC. 1401 ASTOR STREET, BELLINGHAM, WA 98225 - 671-1146 366 MARTIN STREET, BOX 1697, BLAINE, WA 98230 - 332-5825	Drawn by: RM/srv Date: 8/21/89 Checked by: Date: H. Scale: 1"= V. Scale: 1"= Datum:	Client: AL LEISHMAN Project: SANITARY SEWER Title: PROFILE	JOB NO. 89-155 DRAWING NO. 2 OF 2
					Title:			Field Bk.		Page		
					APPROVED FOR DESIGN:			R.O.S.				
					Title:			A.F.				

Robert D. Leishman
 Robert D. Leishman
 Nov 9, 90