-11

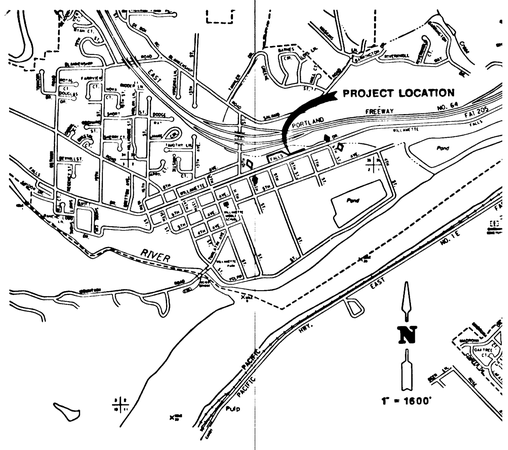
PLANS FOR

WILLAMETTE FALLS DRIVE SEWER REPLACEMENT

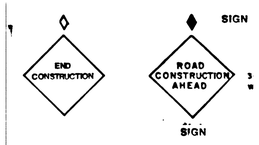
IN

WEST LINN , OREGON

SEPTEMBER,1988



VICINITY MAP
(& TRAFFIC SIGNING PLAN)



NOTES:

1. ALL EXISTING FACILITIES TO BE MAINTAINED [illegible] BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. [illegible] TO LEAVE EXISTING FACILITIES IN [illegible] ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
2. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER CITY REQUIREMENTS. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL TIMES.
3. ALL CONSTRUCTED MANHOLES, CLEANOUTS, AND MONUMENTS SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK OR PASTURE WHEREIN THEY LIE UNLESS DIRECTED OTHERWISE BY ENGINEER.
4. CONTRACTOR TO NOTIFY PRIVATE UTILITIES FOR RELOCATION OF POWER POLES, VAULTS, ETC.
5. CRUSHED ROCK TRENCH BACKFILL TO BE UNDER ALL IMPROVED AREAS. ALL PIPES TO BE BEDDED WITH MINIMUM 4" CRUSHED ROCK BEDDING.
6. UTILITIES SHOWN ARE APPROXIMATELY ONLY. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. IF GRADE MODIFICATION IS NECESSARY, CONTRACTOR TO NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
8. UPON COMPLETION OF CONSTRUCTION OF PUBLIC FACILITIES, CONTRACTOR TO SUBMIT AS-BUILT DRAWINGS TO THE ENGINEER FOR SUBMITTAL TO THE CITY OF WEST LINN. IN ADDITION, CONTRACTOR TO SUBMIT APPROVED 18 MONTH MAINTENANCE BOND TO THE CITY PRIOR TO FINAL PAYMENT.

AS-BUILT
12-8-88

SHEET INDEX

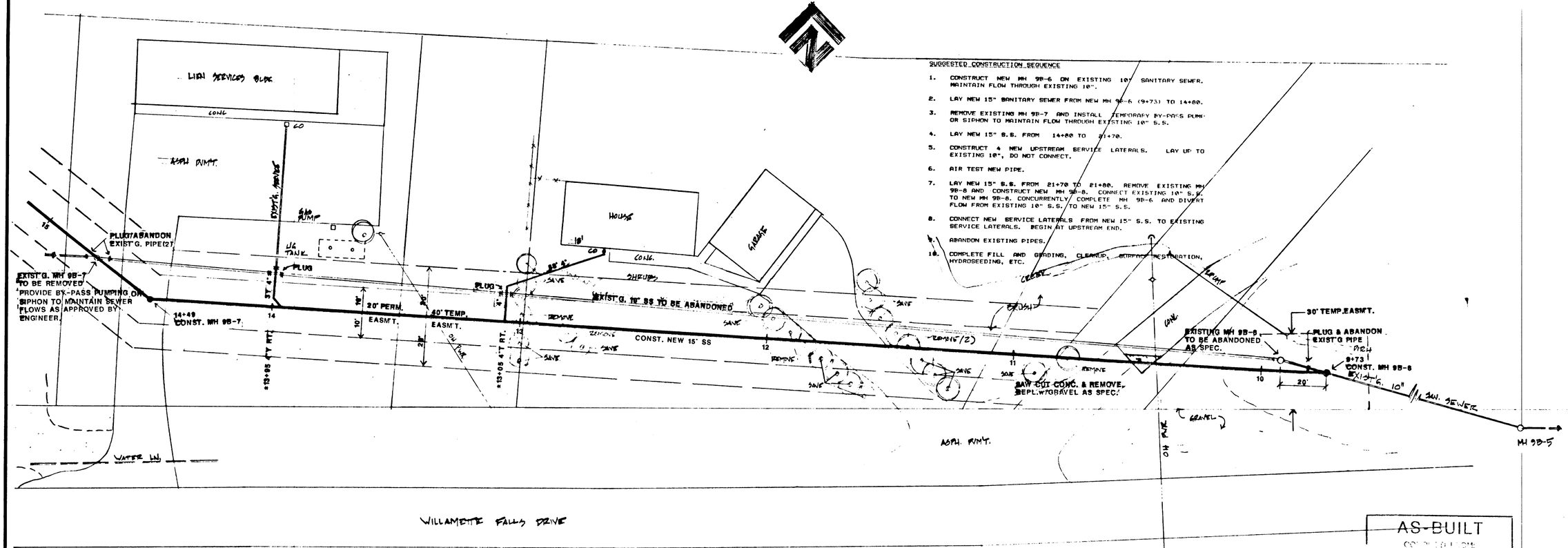
SHT.NO.	DESCRIPTION
1.	WILLAMETTE FALLS DRIVE SEWER REPLACEMENT 0+00 - 4+77
2.	WILLAMETTE FALLS DRIVE SEWER REPLACEMENT 4+77 - 11+80
3.	DETAILS

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

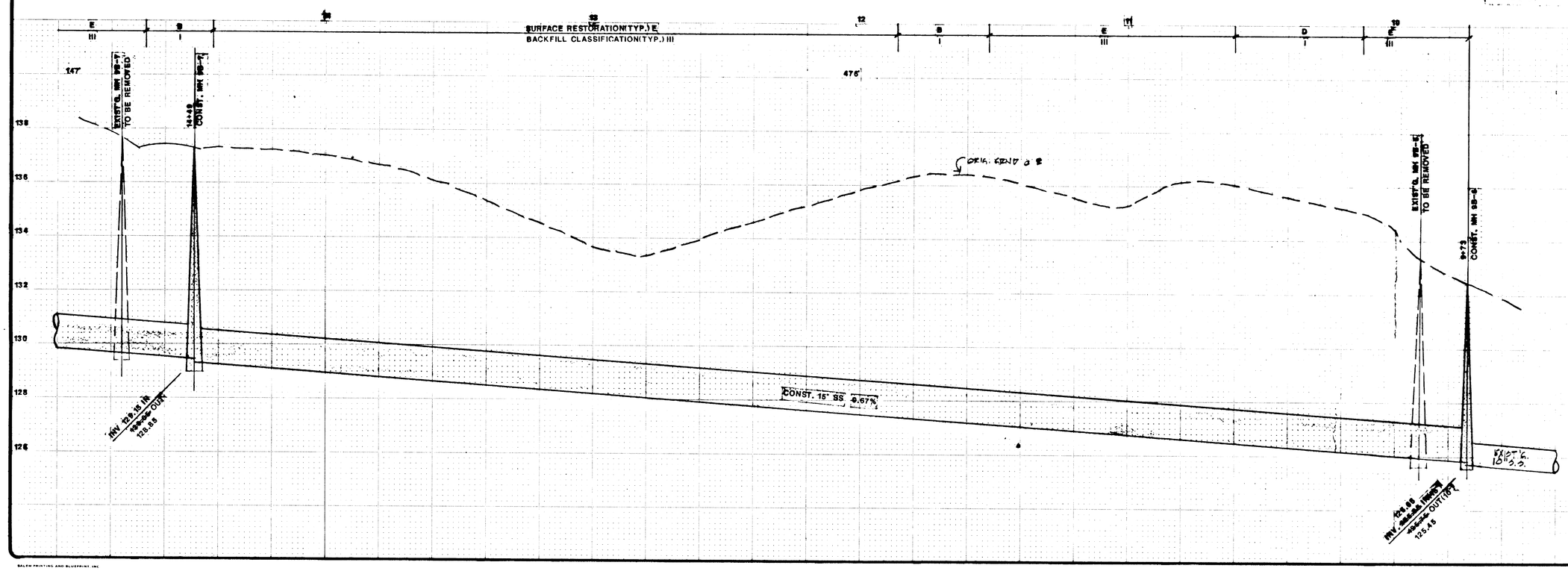
9/12/88

SUGGESTED CONSTRUCTION SEQUENCE

1. CONSTRUCT NEW MH 9B-6 ON EXISTING 10" SANITARY SEWER. MAINTAIN FLOW THROUGH EXISTING 10".
2. LAY NEW 15" SANITARY SEWER FROM NEW MH 9B-6 (9+73) TO 14+80.
3. REMOVE EXISTING MH 9B-7 AND INSTALL TEMPORARY BY-PASS PUMP OR SIPHON TO MAINTAIN FLOW THROUGH EXISTING 10" S.S.
4. LAY NEW 15" S.S. FROM 14+80 TO 21+70.
5. CONSTRUCT 4 NEW UPSTREAM SERVICE LATERALS. LAY UP TO EXISTING 10", DO NOT CONNECT.
6. AIR TEST NEW PIPE.
7. LAY NEW 15" S.S. FROM 21+70 TO 21+80. REMOVE EXISTING MH 9B-8 AND CONSTRUCT NEW MH 9B-8. CONNECT EXISTING 10" S.S. TO NEW MH 9B-8. CONCURRENTLY, COMPLETE MH 9B-6 AND DIVERT FLOW FROM EXISTING 10" S.S. TO NEW 15" S.S.
8. CONNECT NEW SERVICE LATERALS FROM NEW 15" S.S. TO EXISTING SERVICE LATERALS. BEGIN AT UPSTREAM END.
9. ABANDON EXISTING PIPES.
10. COMPLETE FILL AND GRADING, CLEANUP, SURFACE RESTORATION, HYDROSEEDING, ETC.



AS-BUILT



NO.	DATE	DESCRIPTION	BY
		REVISIONS	

SCALE
HORIZ: 1" = 20'
VERT: 1" = 2'

DSN. JY
DRN. JG
CKD. JY SW
DATE: SEPT. 1988

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS
3421 25TH ST. S.E., SALEM, OR. 97302 (503)585-2474
13500 SW 72nd, PORTLAND, OR. 97223 (503)644-9226
2300 OAKMONT WAY, EUGENE, OR. 97401 (503)485-4484

CITY OF WEST LINN, OREGON

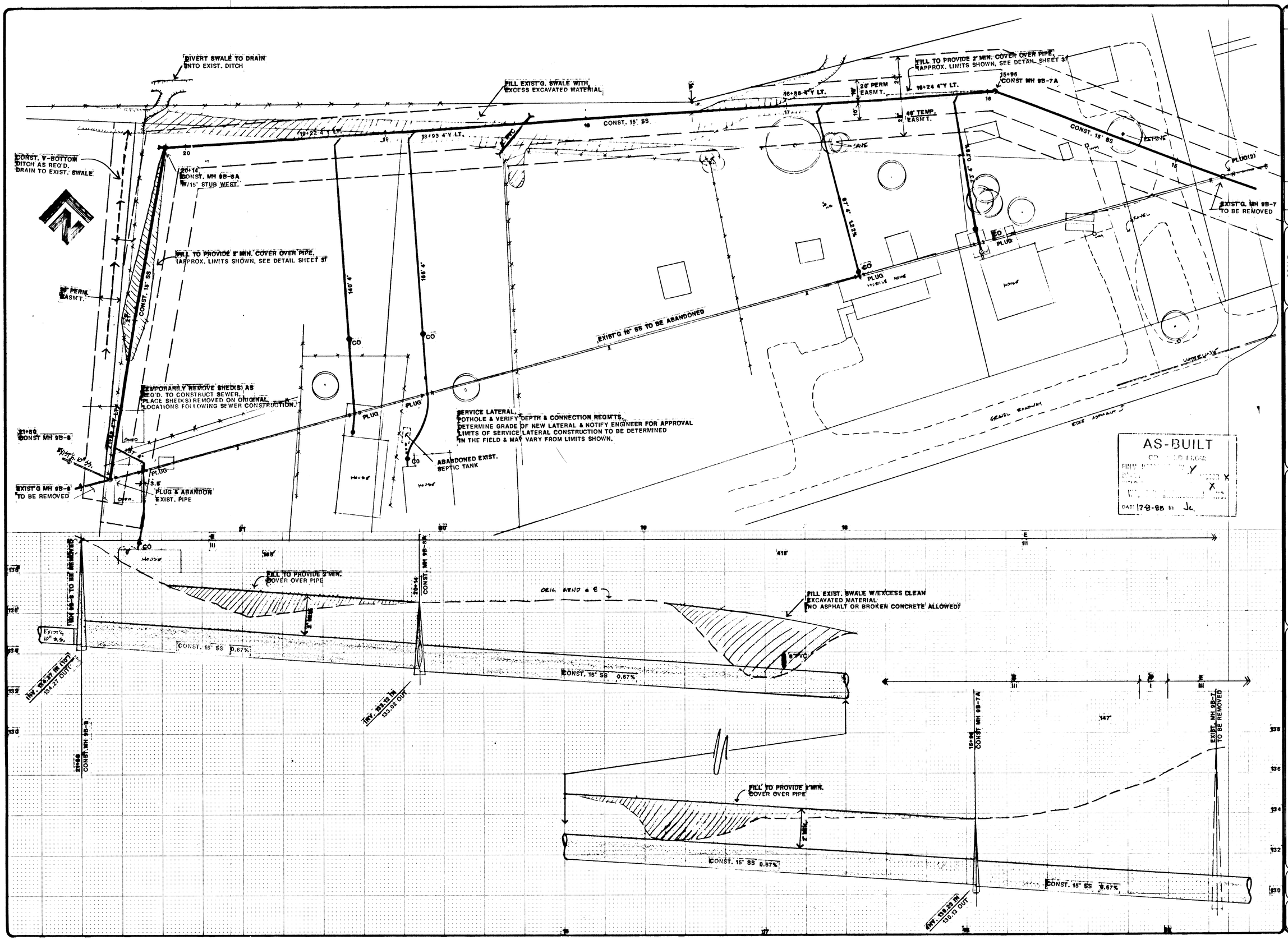
WILLAMETTE FALLS DRIVE SEWER REPLACEMENT

O+00 – 4+77

SHEET 1 OF 3

JOB NUMBER 1249.300.1

SALEM PRINTING AND BLUEPRINT, INC.



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13980 SW 72nd, PORTLAND, OR. 97223 (503)684-9288
2300 OAKMONT WAY, EUGENE, OR. 97401 (503)485-4454

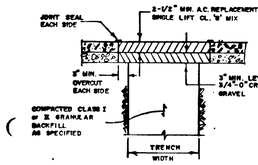
CITY OF WEST LINN, OREGON

WILLAMETTE FALLS DRIVE SEWER REPLACEMENT 4+77 – 11+80

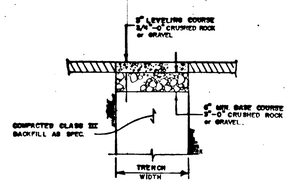
SHEET 2 OF 3

JOB NUMBER 849.300.1

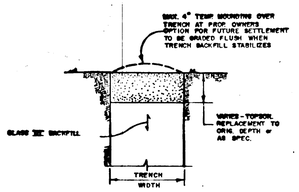
SALEM PRINTING AND BLUEPRINT, INC



CLASS B
PAVED STREET or PAVED SHOULDER REPLACEMENT



CLASS D
GRAVELED ROAD or STREET



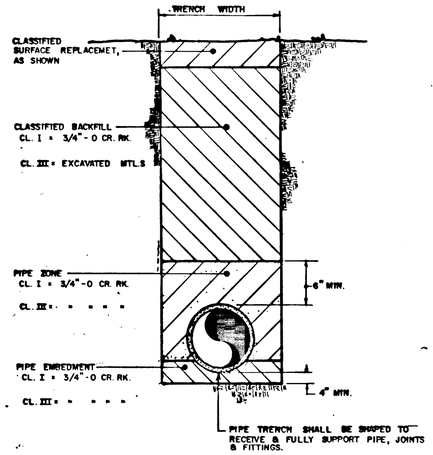
CLASS E
UNIMPROVED & OPEN AREAS

SURFACE REPLACEMENT DETAILS

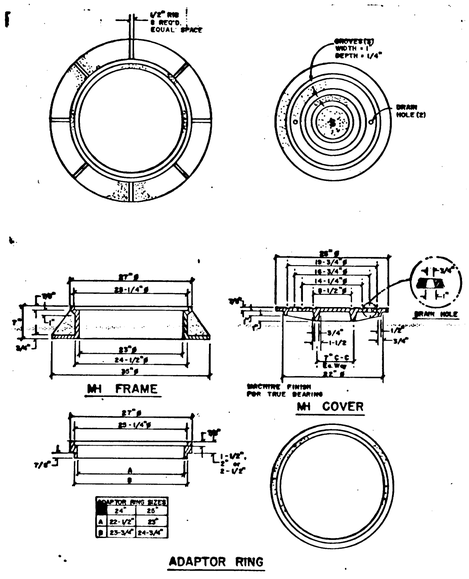
MAXIMUM TRENCH WIDTHS

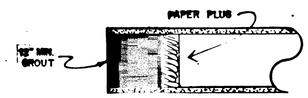
NOMINAL PIPE SIZE	6"	8"	10"	12"	15"	18"	21"	24"	27"	30"
USUAL MAXIMUM TRENCH WIDTH	2'-0"	2'-2"	2'-4"	2'-8"	2'-11"	3'-2"	3'-6"	3'-9"	4'-0"	4'-4"

ENGINEER WILL CONSIDER ADJUSTING USUAL TRENCH WIDTH TO ACCOMMODATE CONDITIONS ENCOUNTERED.

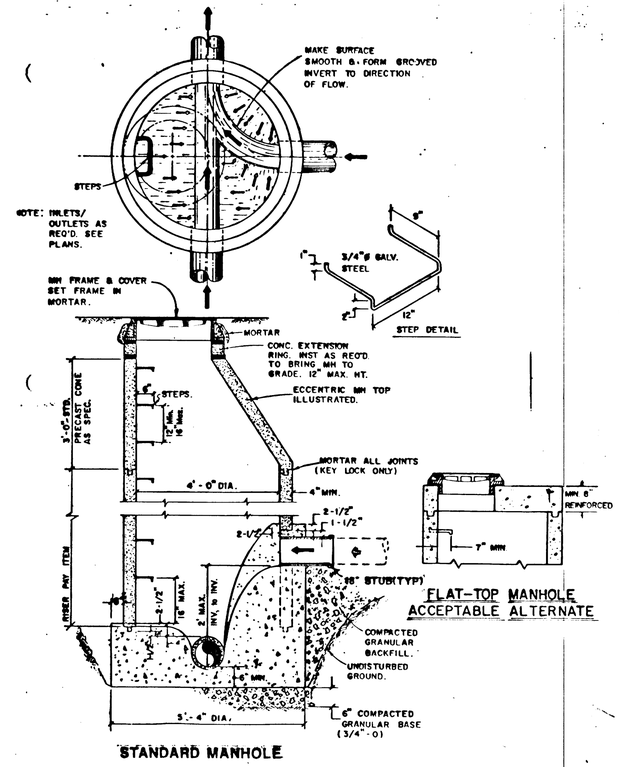


PIPE TRENCH DETAIL
(MAINS & SERVICE LATERALS)

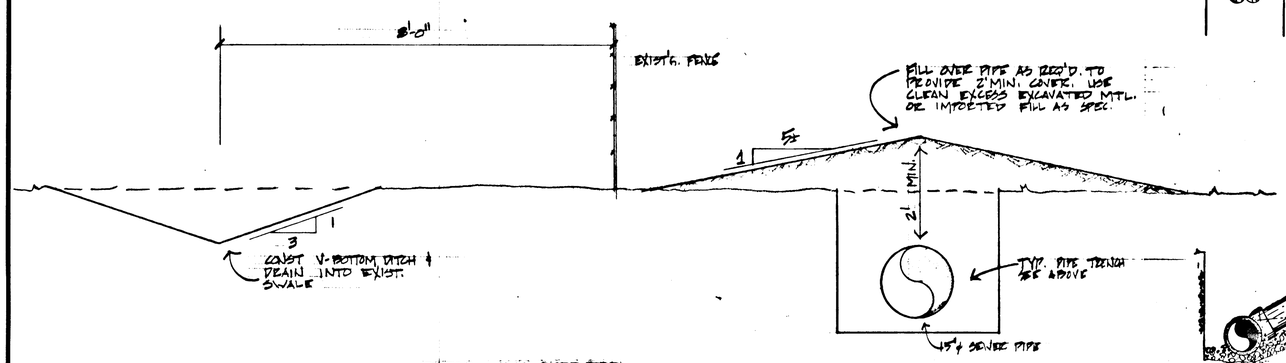




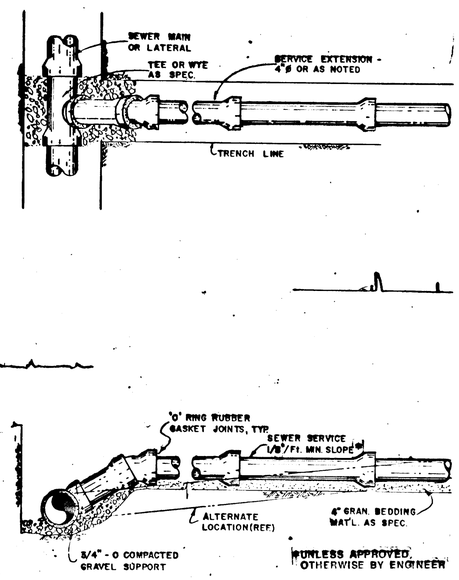
STANDARD PIPE PLUG



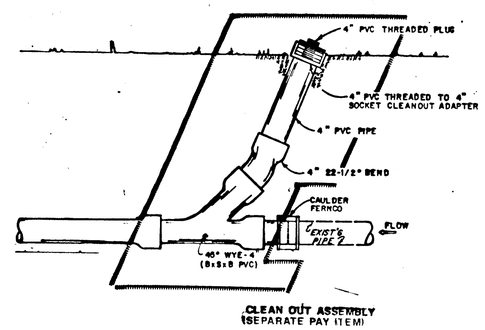
STANDARD MANHOLE



DETAIL - FILL OVER PIPE



SERVICE LATERAL CONNECTION



CLEAN OUT ASSEMBLY
(SEPARATE PAY ITEM)

AS-BUILT
CONSULTING ENGINEERS
FINAL REDLINE MARKUP X
DATA ENTRY X
FIELD VERIFY X
WESTECH ENGINEERING, INC.
DATE 12-8-88 BY JG.

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

SCALE
HORIZ: NONE
VERT:
DSN. JY
DRN. JG
CKD. JY
DATE: SEPT. 1988

9/22/89

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS
3421 25TH ST. S.E., SALEM, OR. 97302 (503)585-2474
13500 SW 72nd, PORTLAND, OR. 97223 (503)684-9228
2300 OAKMONT WAY, EUGENE, OR. 97401 (503)485-4454

CITY OF WEST LINN OREGON

WILLAMETTE FALLS DRIVE
SEWER REPLACEMENT
DETAILS

SHEET 3 OF 3

JOB NUMBER
8249.300.1

SALEM PRINTING AND BLUEPRINT, INC.

Second Scan

This As-Built was scanned twice due to illegibility issues of the original scan.

C88-11

-11

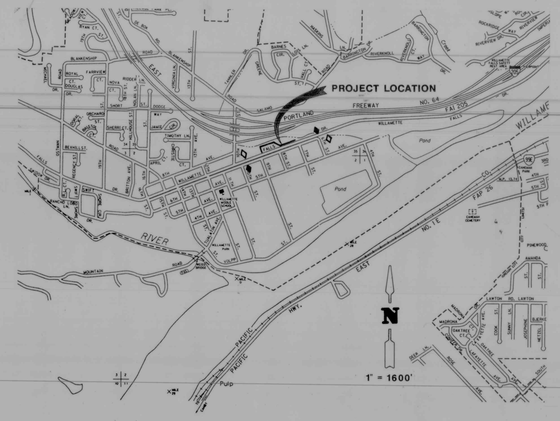
PLANS FOR

WILLAMETTE FALLS DRIVE SEWER REPLACEMENT

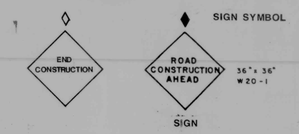
IN

WEST LINN , OREGON

SEPTEMBER,1988



VICINITY MAP
(& TRAFFIC SIGNING PLAN)



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AS-BUILT
COMPILED FROM
FINAL PROJECT SURVEY X
CONTRACTOR X
X
WESTECH ENGINEERING, INC.
DATE 12-8-88 BY JC

SHEET INDEX

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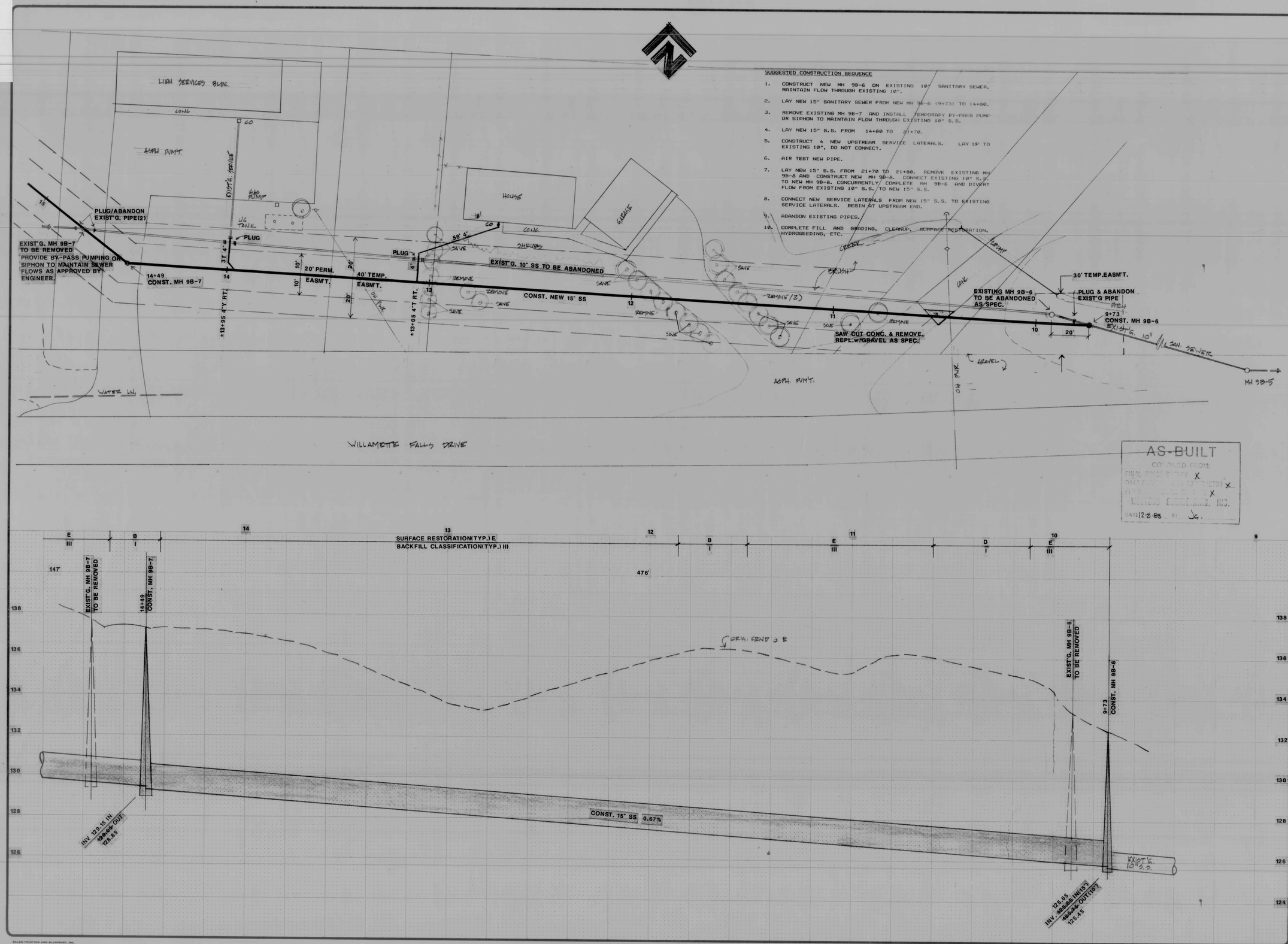
WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

9/22/88

1249.300.1

C88-11



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10. COMPLETE FILL AND GRADING, CLEANUP, SURFACE RESTORATION, HYDROSEEDING, ETC.

AS-BUILT
COMPILED FROM:
FINAL PROCESS SURVEY X
DATA FURNISHED BY CONTRACTOR X
FIELD INSPECTION BY X
WESTECH ENGINEERING, INC.
DATE 12-8-88 BY JG

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

SCALE
HORIZ: 1" = 20'
VERT: 1" = 2'
DSN. JY
DRN. JG
CKD. JY SW
DATE: SEPT. 1988

STEVEN A. WARD 9/22/88

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS
3421 25TH ST. S.E., SALEM, OR. 97302 (503)585-2474
13500 SW 72nd, PORTLAND, OR. 97223 (503)684-9226
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CITY OF WEST LINN, OREGON

WILLAMETTE FALLS DRIVE
SEWER REPLACEMENT
0+00 - 4+77

SHEET 1 OF 3

JOB NUMBER 1249.300.1

E88-11

DIVERT SWALE TO DRAIN INTO EXIST. DITCH

FILL EXIST'G. SWALE WITH EXCESS EXCAVATED MATERIAL

FILL TO PROVIDE 2' MIN. COVER OVER PIPE. (APPROX. LIMITS SHOWN, SEE DETAIL SHEET 3)

15+96 CONST MH 9B-7A

20' PERM EASM'T.

40' TEMP. EASM'T.

16+86 4" Y LT.

16+24 4" Y LT.

19+22 4" Y LT.

18+93 4" Y LT.

CONST. 15" SS

CONST. 15" SS

CONST. V-BOTTOM DITCH AS REQ'D. DRAIN TO EXIST. SWALE

20+14 CONST. MH 9B-8A W/15" STUB WEST

FILL TO PROVIDE 2' MIN. COVER OVER PIPE. (APPROX. LIMITS SHOWN, SEE DETAIL SHEET 3)

10' PERM. EASM'T.

CONST. 15" SS

140' 4"

166' 4"

87' 4" 12.2%

73' 4" 0.78%

PLUG(2)

EXIST'G. MH 9B-7 TO BE REMOVED

CO

PLUG

EXIST'G 10" SS TO BE ABANDONED

TEMPORARILY REMOVE SHED(S) AS REQ'D. TO CONSTRUCT SEWER. PLACE SHED(S) REMOVED ON ORIGINAL LOCATIONS FOLLOWING SEWER CONSTRUCTION.

SERVICE LATERAL. POTHOLE & VERIFY DEPTH & CONNECTION REQM'TS. DETERMINE GRADE OF NEW LATERAL & NOTIFY ENGINEER FOR APPROVAL LIMITS OF SERVICE LATERAL CONSTRUCTION TO BE DETERMINED IN THE FIELD & MAY VARY FROM LIMITS SHOWN.

ABABDONED EXIST. SEPTIC TANK

21+80 CONST MH 9B-8

215' 4" 15"

187' 4"

EXIST'G MH 9B-8 TO BE REMOVED

3.5'

PLUG & ABANDON EXIST. PIPE

GRAVEL ROADWAY

EDGE ASPHALT

AS-BUILT

COMPILED FROM:

FINAL PLAN REVIEW X

DATA FROM CONTRACTOR X

FIELD X

WESTECH ENGINEERING, INC.

DATE 12-8-88 BY JL

MH 9B-8 TO BE REMOVED

166'

418'

147'

FILL TO PROVIDE 2'MIN. COVER OVER PIPE

2' MIN.

20+14 CONST. MH 9B-8A

ORIG. GRND @ ℄

FILL EXIST. SWALE W/EXCESS CLEAN EXCAVATED MATERIAL (NO ASPHALT OR BROKEN CONCRETE ALLOWED)

8" PVC

CONST. 15" SS 0.67%

INV. 134.37 IN (10") 134.27 OUT

INV. 133.12 IN 133.02 OUT

21+80 CONST. MH 9B-8

15+96 CONST MH 9B-7A

EXIST. MH 9B-7 TO BE REMOVED

INV. 130.23 IN 130.13 OUT

NO.	DATE	DESCRIPTION	BY
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DRN. JIG
CKD. JY SW
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CITY OF WEST LINN, OREGON

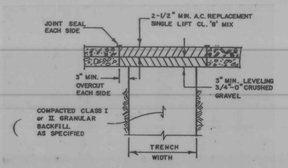
WILLAMETTE FALLS DRIVE
SEWER REPLACEMENT
4+77 - 11+80

SHEET 2 OF 3

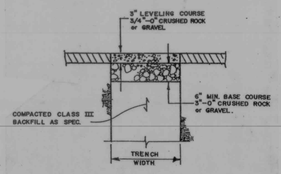
JOB NUMBER 1249.300.1

SALEM PRINTING AND BLUEPRINT, INC.

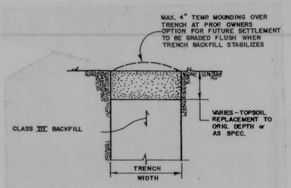
C88-11



CLASS B
PAVED STREET or PAVED SHOULDER REPLACEMENT



CLASS D
GRAVELED ROAD
or STREET



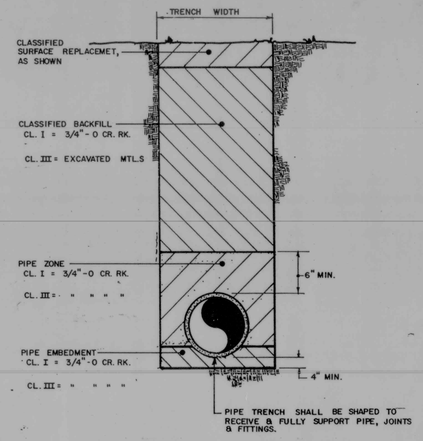
CLASS E
UNIMPROVED
& OPEN AREAS

SURFACE REPLACEMENT DETAILS

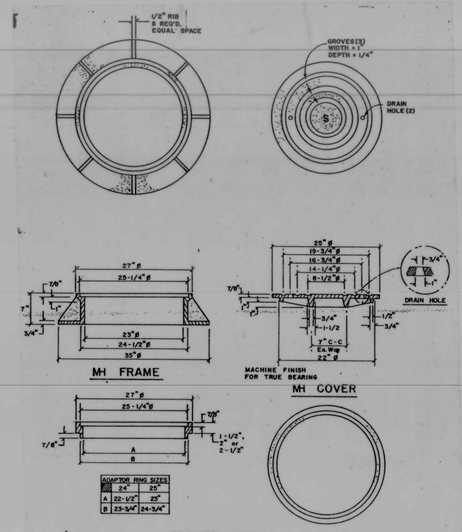
MAXIMUM TRENCH WIDTHS

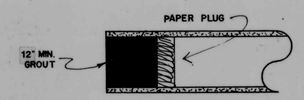
NOMINAL PIPE SIZE	6"	8"	10"	12"	15"	18"	21"	24"	27"	30"
USUAL MAXIMUM TRENCH WIDTH	2'-0"	2'-2"	2'-4"	2'-8"	2'-11"	3'-2"	3'-6"	3'-9"	4'-0"	4'-4"

ENGINEER WILL CONSIDER ADJUSTING USUAL TRENCH WIDTH TO ACCOMMODATE CONDITIONS ENCOUNTERED.

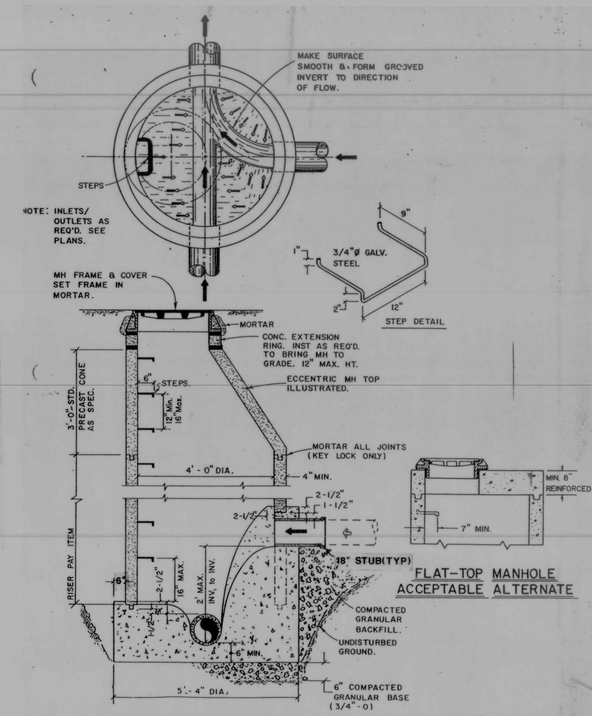


PIPE TRENCH DETAIL
(MAINS & SERVICE LATERALS)



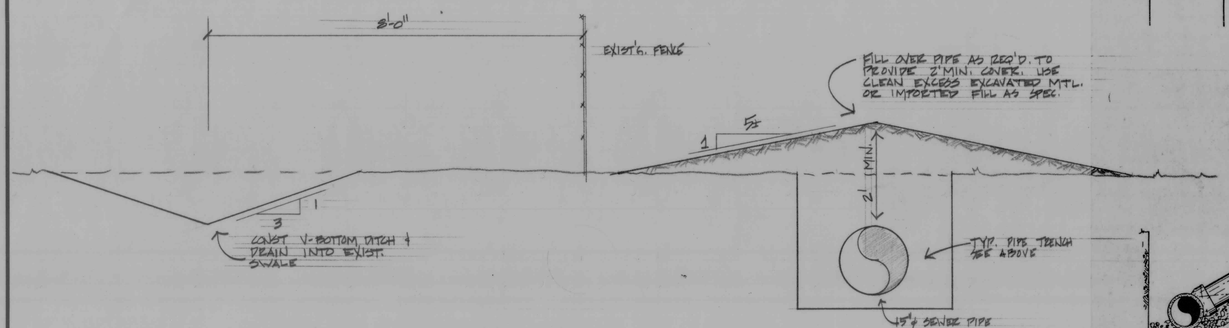


STANDARD PIPE PLUG

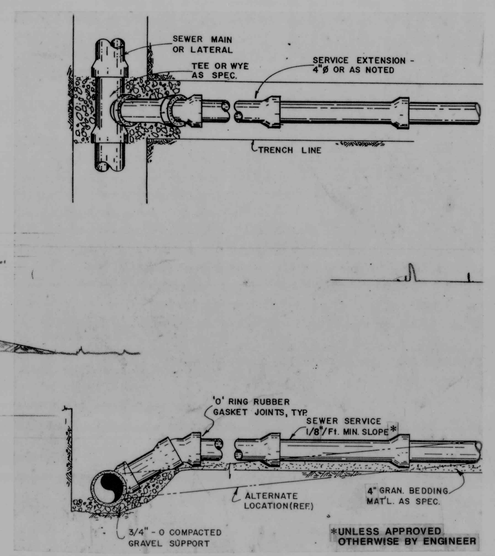


FLAT-TOP MANHOLE
ACCEPTABLE ALTERNATE

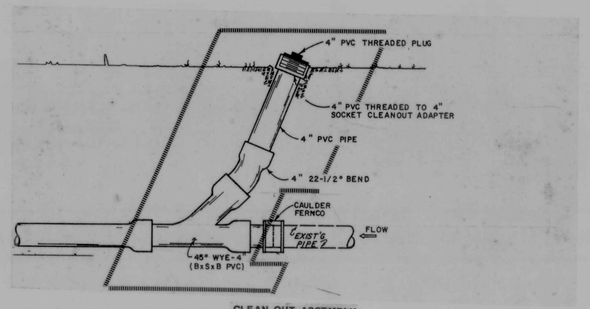
STANDARD MANHOLE



DETAIL - FILL OVER PIPE



SERVICE LATERAL CONNECTION



CLEAN OUT ASSEMBLY
(SEPARATE PAY ITEM)

AS-BUILT
COMPILED FROM:
FINAL FIELD SURVEY X
DATA FURNISHED BY CONTRACTOR X
FIELD INSPECTION BY WESTECH X
WESTECH ENGINEERING, INC.
DATE 12-8-88 BY JG.

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

SCALE
HORIZ: NONE
VERT:
DSN. JY
DRN. JG
CKD. JY-JW
DATE: SEPT. 1988

9/22/89

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS
3421 25TH ST. S.E., SALEM, OR. 97302 (503)585-2474
13590 SW 72nd, PORTLAND, OR. 97223 (503)684-9226
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CITY OF WEST LINN OREGON

WILLAMETTE FALLS DRIVE
SEWER REPLACEMENT
DETAILS

SHEET 3 OF 3

JOB NUMBER
1249.300.1

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