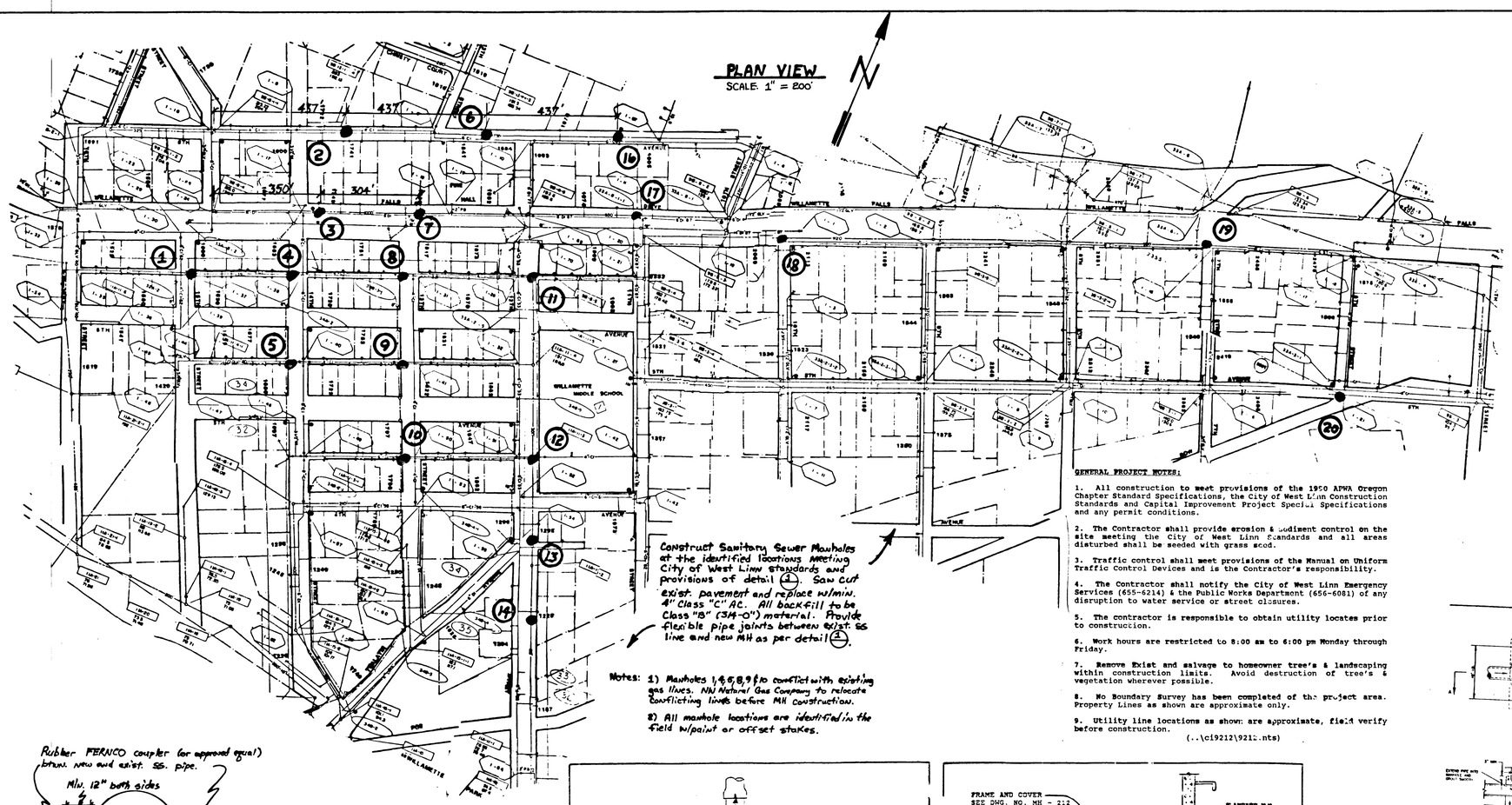
PLAN VIEW
SCALE: 1" = 200'



Construct Sanitary Sewer Manholes at the identified locations meeting City of West Linn standards and provisions of detail 1. Saw cut exist. pavement and replace w/min. 4" Class "C" AC. All backfill to be Class "B" (3/4"-0") material. Provide flexible pipe joints between exist. SS line and new MH as per detail 1.

Notes: 1) Manholes 1,4,5,8,9 f/o conflict with existing gas lines. NW Natural Gas Company to relocate conflicting lines before MH construction.

2) All manhole locations are identified in the field w/paint or offset stakes.

NEW MANHOLES

1. SS MH #1 ~~8" I.E. = 203.9±~~ Rim = 212.2± Depth = 2.3'
2. SS MH #2 8" I.E. = 188.3± Rim = 208.5±
3. SS MH #3 ~~8" I.E. = 198.3±~~ Rim = 210.0± Depth = 12.3'
4. SS MH #4 ~~8" I.E. = 204.9±~~ Rim = 208.4± Depth = 3.7'
5. SS MH #5 ~~8" I.E. = 195.8±~~ Rim = 199.5± Depth = 4.1'
6. SS MH #6 ~~8" I.E. = 172.5±~~ Rim = 195.0± Depth = 9.5'
7. SS MH #7 ~~8" I.E. = 190.3±~~ Rim = 202.5± Depth = 8.8'
8. SS MH #8 ~~8" I.E. = 197.8±~~ Rim = 202.0± Depth = 4.1'
9. SS MH #9 ~~8" I.E. = 190.5±~~ Rim = 195.9± Depth = 5.5'
10. SS MH #10 ~~8" I.E. = 178.4±~~ Rim = 185.2± Depth = 6.9'
11. SS MH #11 ~~8" I.E. = 188 (estimated)~~ Rim = 193.5± Depth = 3.6'
12. SS MH #12 ~~8" I.E. = 177 (estimated)~~ Rim = 182.0± Depth = 8.3'
13. SS MH #13 ~~8" I.E. = 156 (estimated)~~ Rim = 161.0± Depth = 5.4'
14. SS MH #14 ~~8" I.E. = 111 (estimated)~~ Rim = 116.0± Depth = 2.8'
15. SS MH #15 ~~8" I.E. = 156.1±~~ Rim = 170.1± Depth = 7.8'
16. SS MH #16 ~~8" I.E. = 171.3±~~ Rim = 178.0± Depth = 6.6'
17. SS MH #17 ~~8" I.E. = 165.7±~~ Rim = 170.0± Depth = 7.9'
18. SS MH #18 8" I.E. = 139.2± Rim = 148.0±
19. SS MH #19 ~~8" I.E. = 113.5±~~ Rim = 121.0± Depth = 7.7'
20. SS MH #20

GENERAL PROJECT NOTES:

1. All construction to meet provisions of the 1990 APWA Oregon Chapter Standard Specifications, the City of West Linn Construction Standards and Capital Improvement Project Special Specifications and any permit conditions.

2. The Contractor shall provide erosion & sediment control on the site meeting the City of West Linn Standards and all areas disturbed shall be seeded with grass sod.

3. Traffic control shall meet provisions of the Manual on Uniform Traffic Control Devices and is the Contractor's responsibility.

4. The Contractor shall notify the City of West Linn Emergency Services (655-6214) & the Public Works Department (656-6081) of any disruption to water service or street closures.

5. The contractor is responsible to obtain utility locates prior to construction.

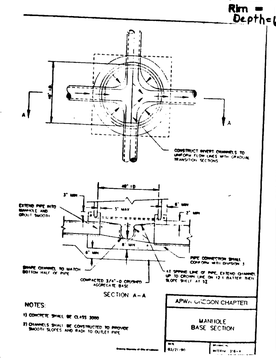
6. Work hours are restricted to 8:00 am to 6:00 pm Monday through Friday.

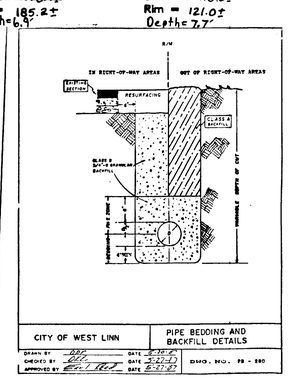
7. Remove Exist and salvage to homeowner tree's & landscaping within construction limits. Avoid destruction of tree's & vegetation wherever possible.

8. No Boundary Survey has been completed of the project area. Property Lines as shown are approximate only.

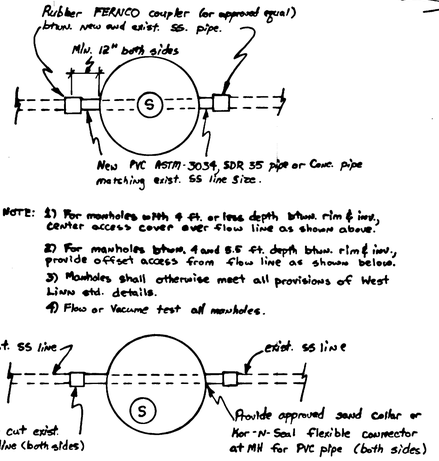
9. Utility line locations as shown are approximate, field verify before construction.

(..\ci9212\9212.nts)





AS BUILT



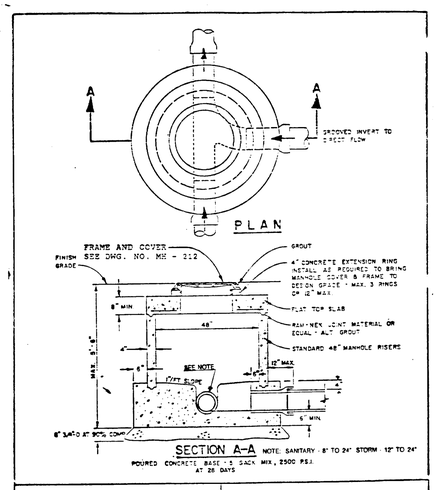
NOTE: 1) For manholes with 4 ft. or less depth btwn. rim & inv., center access cover over flow line as shown above.

2) For manholes btwn. 4 and 8.5 ft. depth btwn. rim & inv., provide offset access from flow line as shown below.

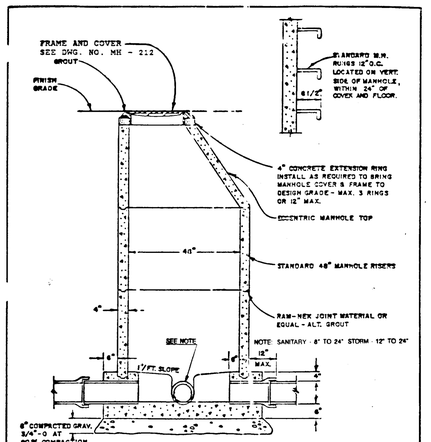
3) Manholes shall otherwise meet all provisions of West Linn std. details.

4) Flow or Vacume test all manholes.

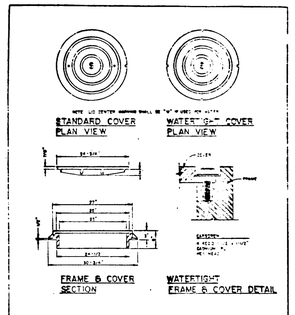
1 Manhole Detail - Plan View
N.T.S.



CITY OF WEST LINN	SHALLOW MANHOLE
DRAWN BY DDP DATE 5-20-87	DWG. NO. MH - 210
CHECKED BY DLL DATE 5-27-87	
APPROVED BY Earl Reed DATE 5-27-87	



CITY OF WEST LINN	STANDARD MANHOLE
DRAWN BY DDP DATE 5-20-87	DWG. NO. MH - 209
CHECKED BY DLL DATE 5-27-87	
APPROVED BY Earl Reed DATE 5-27-87	



CITY OF WEST LINN	MANHOLE FRAME & COVER
DRAWN BY DDP DATE 5-20-87	DWG. NO. MH - 212
CHECKED BY DLL DATE 5-27-87	
APPROVED BY Earl Reed DATE 5-27-87	

REGISTERED PROFESSIONAL ENGINEER 14,958 OREGON JULY 25, 1980 KEITH D. GARLINGHOUSE

8-8-95

Reviewed on 12-31-95

DATE	NO.	REVISION
1/94		As-Built

DRAWN BY: K.G./K.K.
FILE: CI-92-12 DATE:
SCALE: N.T.S.

CITY OF WEST LINN
ENGINEERING DEPARTMENT

WILLAMETTE MANHOLE RETROFIT
PLAN/DETAIL SHEET

SURVEYED BY: STAFF
CHECKED BY: STAFF
DESIGNED BY: K.GARLINGHOUSE, PE

PROJECT NO. CI-92-12
DRAWING FILE: CI9210\9210P01A