

1. CONTRACTOR SHALL PROCURE AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF WEST LIND.
2. CONTRACTOR SHALL PROCURE A RIGHT-OF-ENTRY PERMIT FROM CITY STREET HIGHWAY DIVISION FOR ALL WORK WITHIN THE PERMIT ZONE TO BE CONFORM TO THE CITY OF WEST LIND.
3. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
4. CONTRACTOR TO NOTIFY CITY, ODOT AND ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH ALL OTHER REQUIREMENTS OF OGS 700-A-757-0.
5. ALL MATERIALS AND WORKMANSHIP FOR PUBLIC FACILITIES SHALL CONFORM TO THE CITY AND ODOT STANDARD CONSTRUCTION SPECIFICATIONS WHEREIN EACH HAS JURISDICTION, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. CRITICAL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 A.M. AND 6:00 P.M.
6. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER CITY AND ODOT REQUIREMENTS IN ACCORDANCE WITH THE MUTCD. ALL TRAFFIC CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
7. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTOR SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE CITY OF WEST LIND. DRAWINGS FOR THE LOCATION OF UTILITIES OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORDS/CHANGES SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE CITY AT ANY REQUEST.
8. UPON COMPLETION OF CONSTRUCTION OF PUBLIC FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER FOR SUBMITTAL.
9. THE CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCY HAVING JURISDICTION.
10. ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE INVERT ELEVATION OF CITY OF WEST LIND'S SANITARY SEWER MANHOLE JA 37-2-3 SITUATED ON THE SOUTH SIDE OF WALLING WAY IN THE SEWER MAIN FOR THE CITY OF WEST LIND. THE ELEVATION SHALL BE THE SAME FOR ALL OTHER ELEVATIONS.
11. THE ARCHITECTURAL DRAWINGS FOR SITE LIGHTING, TREE REMOVAL AND CONTINUATION OF ALL UTILITIES.

12. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES PROVIDING SUCH DATA DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

13. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES SHOWN NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADES AND/OR REVISIONS TO THE DESIGN. IF A UTILITY CONFLICT IDENTIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS SHALL BE POOLED AS NEARLY AS POSSIBLE PRIOR TO CONSTRUCTION TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.

14. ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING UTILITIES IN PLACE IN AT LEAST THE SAME ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.

17. CONTRACTOR TO REVIEW SOILS REPORT PREPARED BY AGI, AND CONFORM TO ALL RECOMMENDATIONS LISTED IN THE REPORT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAR OF MUD, DUST OR DEBRIS.
19. UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO OSHD STANDARD SPECIFICATIONS, 1991 EDITION.
20. STRIP WORK LIMITS. REMOVING ALL ORGANIC MATTER WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

SUBGRADE TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD. SUBGRADE MUST BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO PLACING EMBANKMENTS OR BASE ROCK.

24. UNLESS OTHERWISE SHOWN, 6-INCHES NOMINAL CURB EXPOSURE USED FOR DESIGN OF ALL PARKING LOT AND STREET GRADES.

26. ALL PLANTER AREAS SHALL BE BACKFILLED WITH APPROVED TOP SOIL MINIMUM 8" THICK. STRIPPING MATERIALS SHALL NOT BE USED FOR PLANTER BACKFILL.

28. CONTRACTOR SHALL HYDROSEED ALL EXPOSED SLOPES AND DISTURBED AREAS WHICH ARE NOT SCHEDULED TO BE LANDSCAPED.

30. CONTRACTOR SHALL COORDINATE AND ENSURE THAT DETENTION POND VOLUMES ARE INSPECTED AND APPROVED BY PUBLIC AGENCIES HAVING JURISDICTION OVER THE DRAINAGE AND SANITARIUM

31. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER FACILITIES.

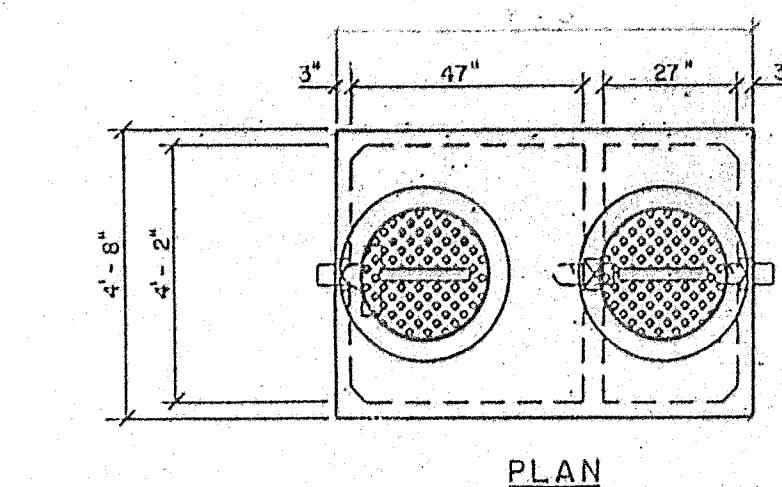
31. ALL PIPES SHALL BE BEDDED WITH MINIMUM 4-INCHES OF 3/4" MINUS CRUSHED ROCK BEDDING AND BACKFILLED WITH COMPACTED 3/4" MINUS CRUSHED ROCK IN THE PIPE SLOPE. CRUSHED ROCK SHALL EXTEND A MINIMUM OF 12-INCHES OVER THE TOP OF THE PIPE IN ALL CASES). THE CRUSHED ROCK TRENCH BACKFILL SHALL BE USED UNDER ALL IMPOSED AREAS.
34. ALL NON-METALLIC WATER, SANITARY AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 12 GA COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE USING BLUE WIRE FOR WATER, GREEN FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, AND MANHOLES AND MANHOLE COVERS TO THE TOP OF THE COVER. THE TRACER WIRE SHALL WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP AND TO THE COVER SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE.
35. NO TRENCHES IN ROADS OR DRIVEWAYS SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORK DAY AND NORMAL TRAFFIC FLOWS RESTORED.
- ▶ WATER
36. CITY FORCES TO OPERATE ALL VALVES ON EXISTING PUBLIC MAINS.
37. WATER SERVICE PIPE SHALL BE TYPE K 2 INCH SOT COPPER TUBING CONFORMING TO ASTM B 88.
38. DOMESTIC AND FIRE BACKFLOW PREVENTION DEVICES AND VALUETS SHALL CONFORM TO REQUIREMENTS OF PUBLIC AND/OR PRIVATE AGENCIES AND JURISDICTIONS.
39. WHERE SANITARY SEWER LINES CROSS ABOVE OR WITHIN 18-INCHES VERTICAL SEPARATION BELOW A WATERLINE, SEWER MAINS AND/OR LATERALS SHALL BE REPLACED WITH DUCTILE IRON PIPE AT THE CROSSING. COVER ON FULL LENGTH OF CLASS 50 21 PIPE CONFORMING TO AWWA C-151 AND C-104 AT POINT OF CROSSING. CONNECT TO EXISTING SEWER LINES WITH ENGINEER APPROVED RUBBER COUPLINGS.
- ▶ SANITARY SEWER
40. UNLESS OTHERWISE SHOWN, SANITARY SEWER PIPE SHALL BE PVC IN CONFORMANCE WITH ASTM C-3014, SDR 35. ALL OTHER APPURTENANCES AND INSTALLATION TO FULL LENGTH OF CITY SPECIFICATIONS.
- ▶ STORM SEWER
41. CATCH BASINS AND JUNCTION BOXES SHALL BE SET SQUARE WITH CURB OR ON THE EDGE OF THE PARKING LOT OR STREET OR WHEREVER THEY LIE.
42. UNLESS OTHERWISE NOTED OR SHOWN, STORM SEWER PIPE MATERIALS TO CONFORM TO THE TABLE BELOW. CONTRACTOR SHALL USE UNIFORM PIPE MATERIAL ON EACH PIPE RUN BETWEEN STRUCTURES UNLESS OTHERWISE NOTED OR SPECIFIED.

1' COVER DEPTH 1'	4" - 10" DIAMETER
LESS THAN 1' COVER DEPTH	CLASS 55 DUCTILE IRON PIPE WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS
1' TO 24' COVER	PIPE SPECIFIED FOR LESSER COVER DEPTHS -OR- CLASS 3, ASTM C-14 NON-REINFORCED CONCRETE PIPE WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS
24' TO 15' COVER	PIPE SPECIFIED FOR LESSER COVER DEPTHS -OR- PVC PIPE CONFORMING TO ASTM D-3034 SDR 35 (4" -15") OR ASTM F-2919 (18") WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS
	HIGH DENSITY POLYETHYLENE PIPE CONFORMING TO ASTM D-3552 (18") OR ASTM D-2991 (12"-18"). PIPE SHALL MEET THE REQUIREMENTS OF ASTM D-2991 AND ASTM D-3552 (PREPARED FITTINGS AND END GASKETS) CONFORMING TO ASTM F-1339 AND ASTM F-477 RESPECTIVELY.

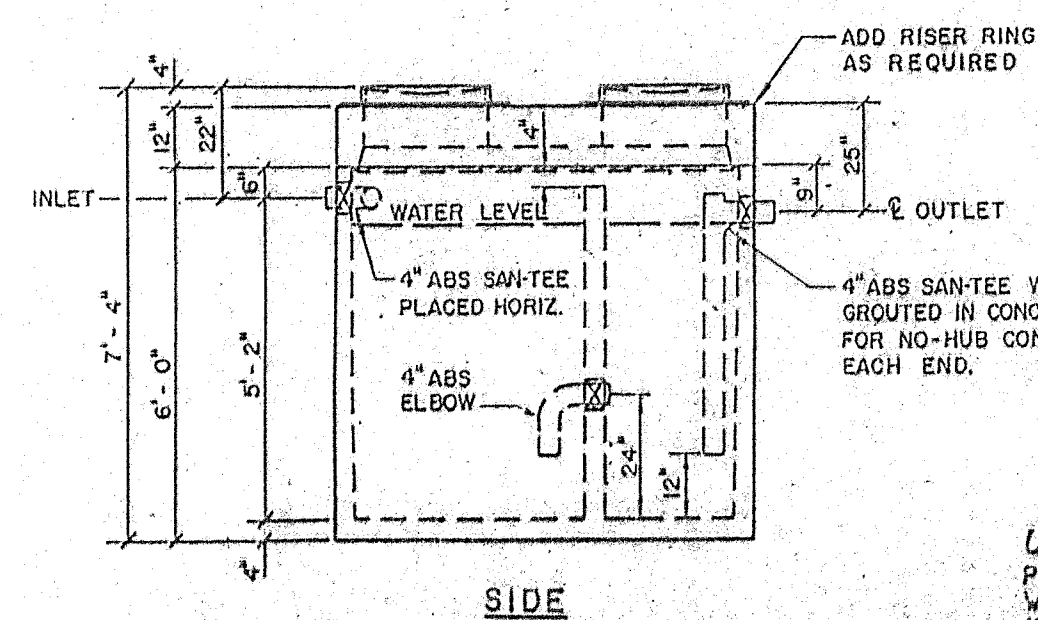
43. SWEEP STORM SEWER PIPE INTO CATCH BASINS AND MANHOLES AS REQUIRED.
44. UNLESS OTHERWISE SHOWN OR DIRECTED, INSTALL STORM SEWER PIPE IN ACCORDANCE WITH MANUFACTURERS INSTALLATION GUIDELINES.

45. UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY JURISDICTION HAVING AUTHORITY, ALL NEW PRIVATE UTILITIES (POWER, CABLE TV, TELEPHONE & GAS) SHALL BE INSTALLED UNDERGROUND. INSTALLATION OF PRIVATE UTILITIES IN A COMMON TRENCH WITH WATER, SANITARY SEWER OR STORM SEWER IS PROHIBITED.

46. CONTRACTOR SHALL COORDINATE WITH POWER, TELEPHONE, AND CABLE TV COMPANY FOR LOCATION OF VAULTS, PEDESTALS, ETC. ALL ABOVE-GRADE FACILITIES SHALL BE PLACED IN A LOCATION OUTSIDE THE PROPOSED SIDEWALK LOCATION.
47. POWER, TELEPHONE AND TV TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH POLY WIRE. CONTRACTOR SHALL VERIFY ALL UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION. ALL CHANGES IN DIRECTION OF UTILITY CONDUIT RUNS SHALL HAVE LONG RADIUS STREET BENDS.
48. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PRIVATE UTILITIES FOR RELOCATION OF POWER POLES, VAULTS, ETC.



NOTE:
CONTRACTOR TO VERIFY
DIMENSIONS FOR DISTANCE
FROM GRADE TO CENTERLINE



UTILITY VAULT COMPANY
P.O. BOX 323
WILSONVILLE, OREGON
(503)-682-2844
(503)-682-2657 FAX

The drawing consists of three main parts: a Plan View, an Elevation View, and a Bar Grate detail.

- Plan View:** Shows a square grate assembly with a central square opening. The opening is labeled "C.O." (Center of Opening). The overall dimensions are 2'-5" SQ. The assembly includes a 1/4" LIP (TYP) and a 1/2" (TYP) RIM ELEV. The distance from the center of the opening to the rim is 12" TYP. The distance from the center of the opening to the outer edge of the lip is 4". The distance from the center of the opening to the inner edge of the lip is 6". The distance from the center of the opening to the outer edge of the lip is 4". The distance from the center of the opening to the inner edge of the lip is 6".
- Elevation View:** Shows a side view of the grate assembly. It includes a 1/4" LIP (TYP) and a 1/2" (TYP) RIM ELEV. The distance from the center of the opening to the rim is 12" TYP. The distance from the center of the opening to the outer edge of the lip is 4". The distance from the center of the opening to the inner edge of the lip is 6". The distance from the center of the opening to the outer edge of the lip is 4". The distance from the center of the opening to the inner edge of the lip is 6".
- Bar Grate Detail:** Shows a detail of the bar grate. It includes a 2'-4" SQ. dimension. The detail shows a cross-section of the grate with a 1/4" LIP (TYP) and a 1/2" (TYP) RIM ELEV. The distance from the center of the opening to the rim is 12" TYP. The distance from the center of the opening to the outer edge of the lip is 4". The distance from the center of the opening to the inner edge of the lip is 6". The distance from the center of the opening to the outer edge of the lip is 4". The distance from the center of the opening to the inner edge of the lip is 6".

PLAN VIEW

ELEVATION VIEW

BAR GRATE

GRATE: WELDED STEEL, DROP IN BAR GRATE (ASTM A36)

- END BARS: 1/2" X 2"
- CROSS BARS: 1/2" X 2" @ 2" O.C.
- BIKE STRAPS: 1/8" X 1" 2 REQ'D.
- 16,000 LB UNIFORM LOAD CAPACITY

GRATE: WELDED STEEL, DROP
IN BAR GRATE (ASTM A36)

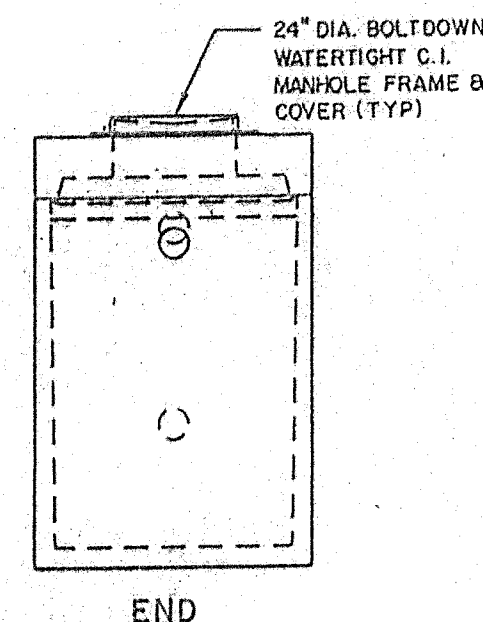
- END BARS: 1/2" X 2"
- CROSS BARS: 1/2" X 2" @ 2" O.C.
- BIKE STRAPS: 1/8" X 1" 12 REQD.
- 16,000 LB UNIFORM LOAD CAPACITY

FOR JUNCTION BOX, REPLACE GRATE WITH 3/4" STEEL PLATE. DRILL ONE 1-INCH LIFTING HOLE, CENTERED IN ONE END OF THE PLATE. ATTACH SHIMS TO RIM AS REQUIRED TO RAISE PLATE TO RIM ELEVATION.

BASIN: WELDED 1/4" STEEL,
COATED ALL SURFACES WITH
ASPHALTIC PAINT.

OUTLET: SIZE AS REQUIRED
FOR INDICATED PIPE SIZE.


CATCH BASIN DETAIL




1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH $f'_c = 4500$ psi
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. STEEL: ASTM A-36 GRADE 36
5. GALVANIZING: ASTM A-123-89 & A-153-87 (HOT DIPPED)
6. STEEL DESIGN: ALSO MANUAL OF STEEL CONSTRUCTION 9TH EDITION.
7. CONCRETE DESIGN: ACI-318-89 BUILDING CODE

ASTM C-897 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"

8. LOADS AASHTO H-20 16 KIP WHEEL LOAD w/ 30' IMPACT (10" x 20" FOOTPRINT)
AASHTO LIVE LOAD SURCHARGE (2' BOLT) TO 8' DEPTH
EFFECTIVE SOIL PRESSURE BELOW TABLE = 80 p.s.f.
EFFECTIVE SOIL PRESSURE ABOVE WATER TABLE = 45 p.s.f.
9. SOIL COVER:
FINISHED GRADE
5' - 0" MAX. w/ WATER TABLE 3' - 0" BELOW
FINISHED GRADE
0' MIN w/ WATER TABLE BELOW BOTTOM OF VAULT
5' 0" MAX. w/ WATER TABLE BELOW BOTTOM OF VAULT



REGISTERED PROFESSIONAL
ENGINEER
11843

The Oregon State Seal is located in the bottom right corner of the document. It features a circular design with the word "OREGON" at the top and "JULY 16, 1859" at the bottom. In the center is a shield depicting a landscape with a plow, a sheaf of wheat, and a ship on the water.

(503) 585-2474

5421 25th ST. S.E. SALEM OR.



McDonald's

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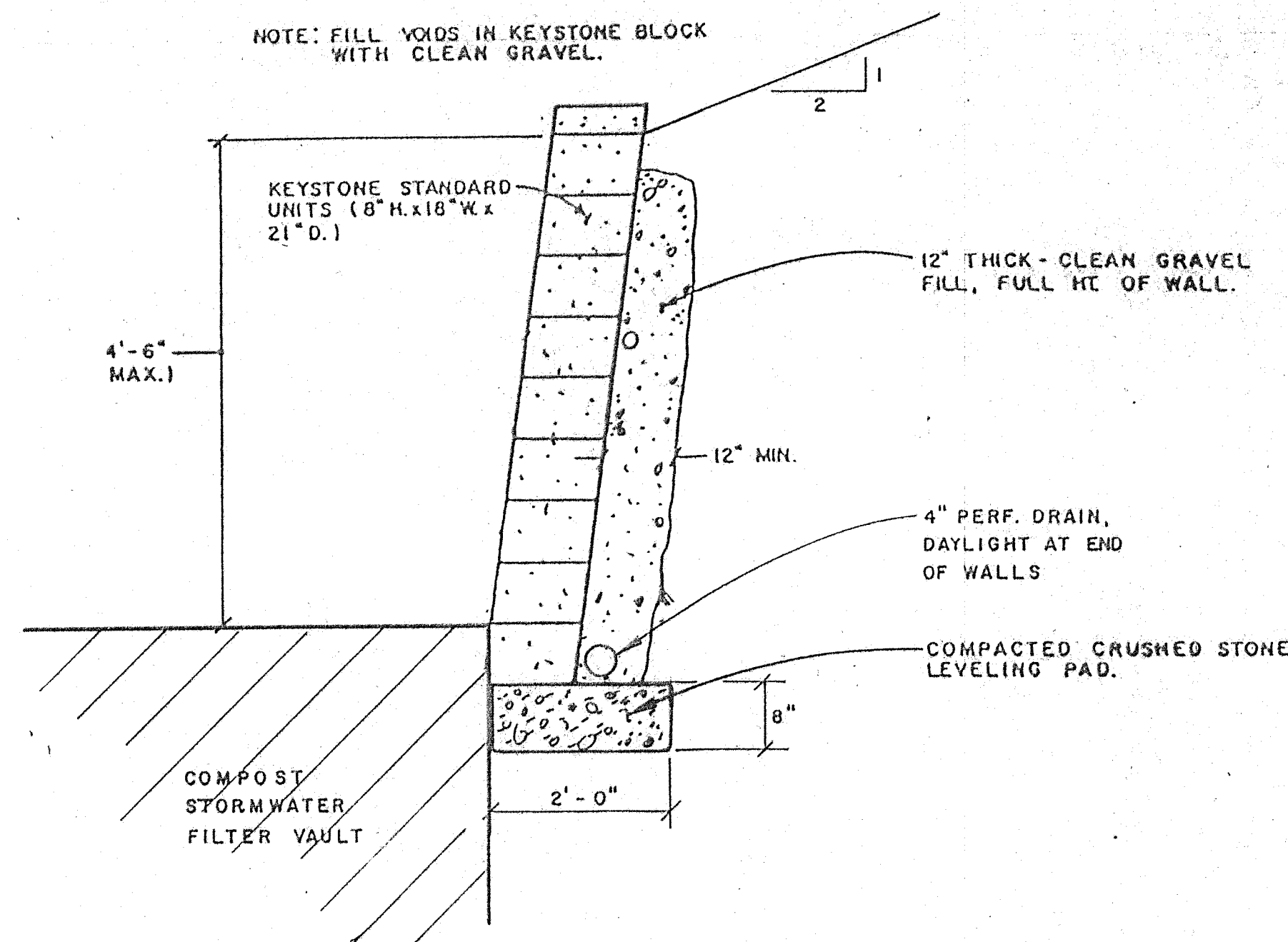
OFFICE ADDRESS

SCALE:	
HORIZ:	- 1"=20'
VERT:	-
DESIGNED BY:	- CGB
DRAWN BY:	- CGB
CHECKED BY:	- SAW
DATE:	- MAY, 199

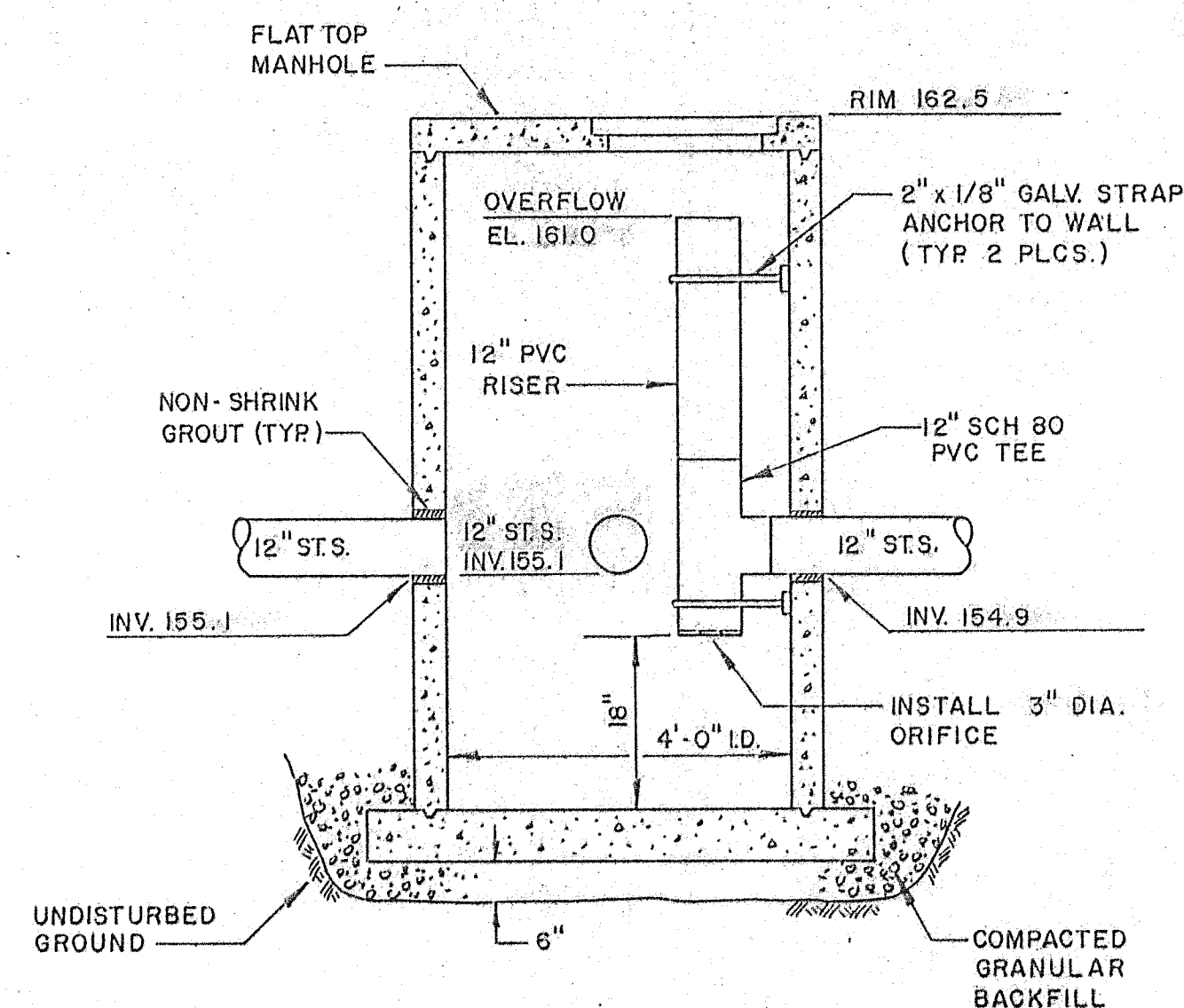
DETAILS

WEST LINN/HGWAY 43

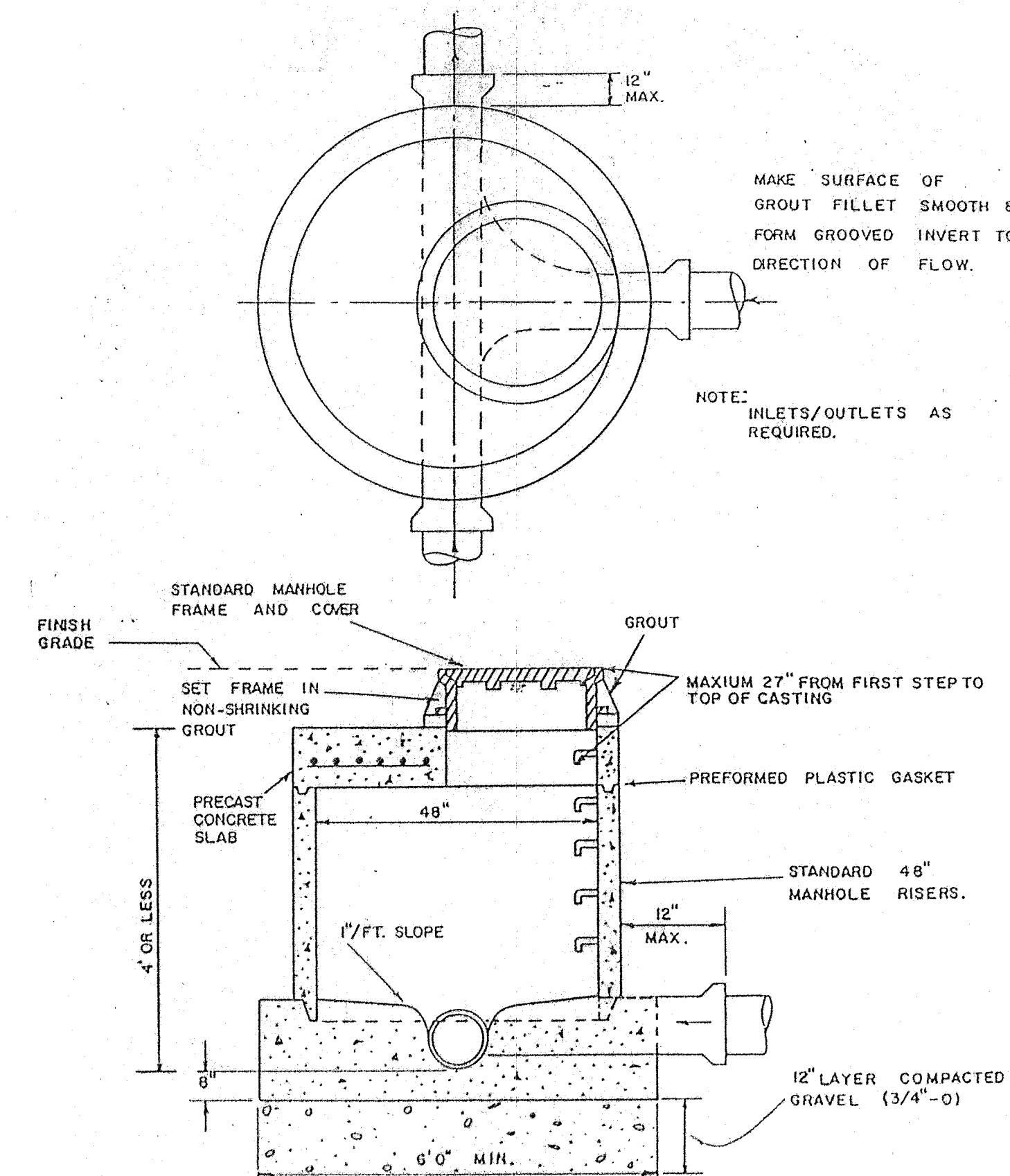
C3-A



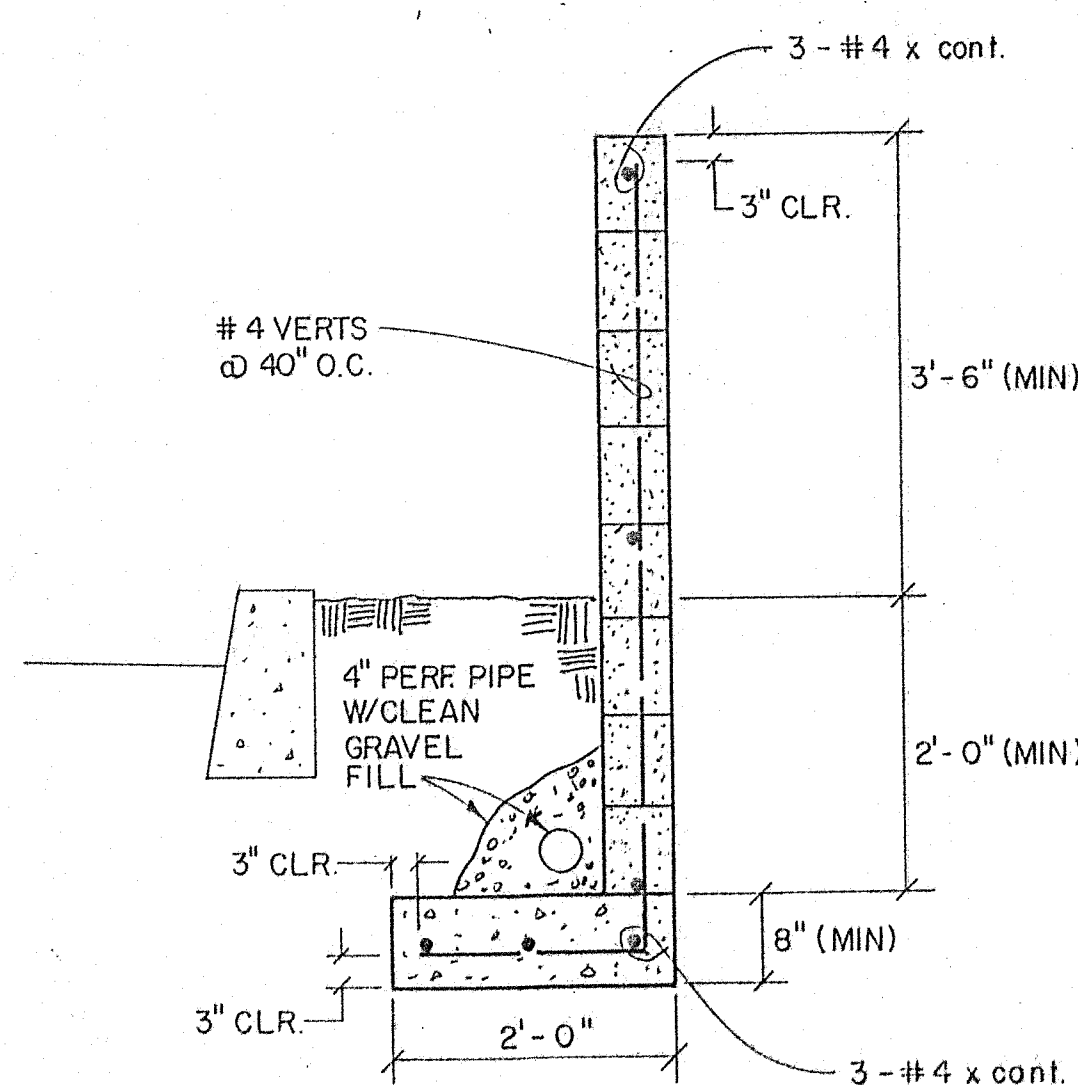
**KEYSTONE RETAINING WALL
AT COMPOST STORMWATER FILTER VAULT**



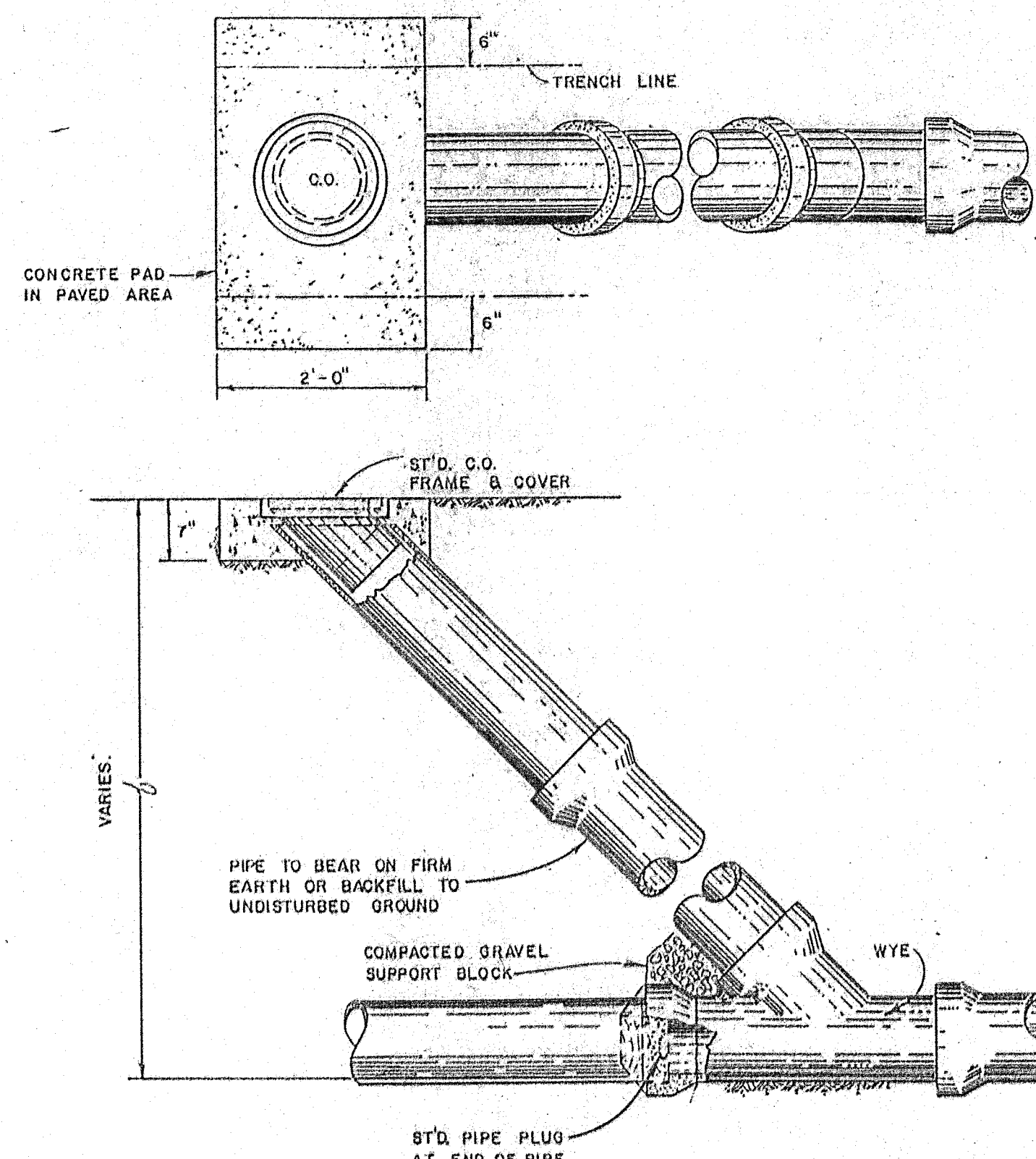
FLAT TOP FLOW CONTROL MANHOLE



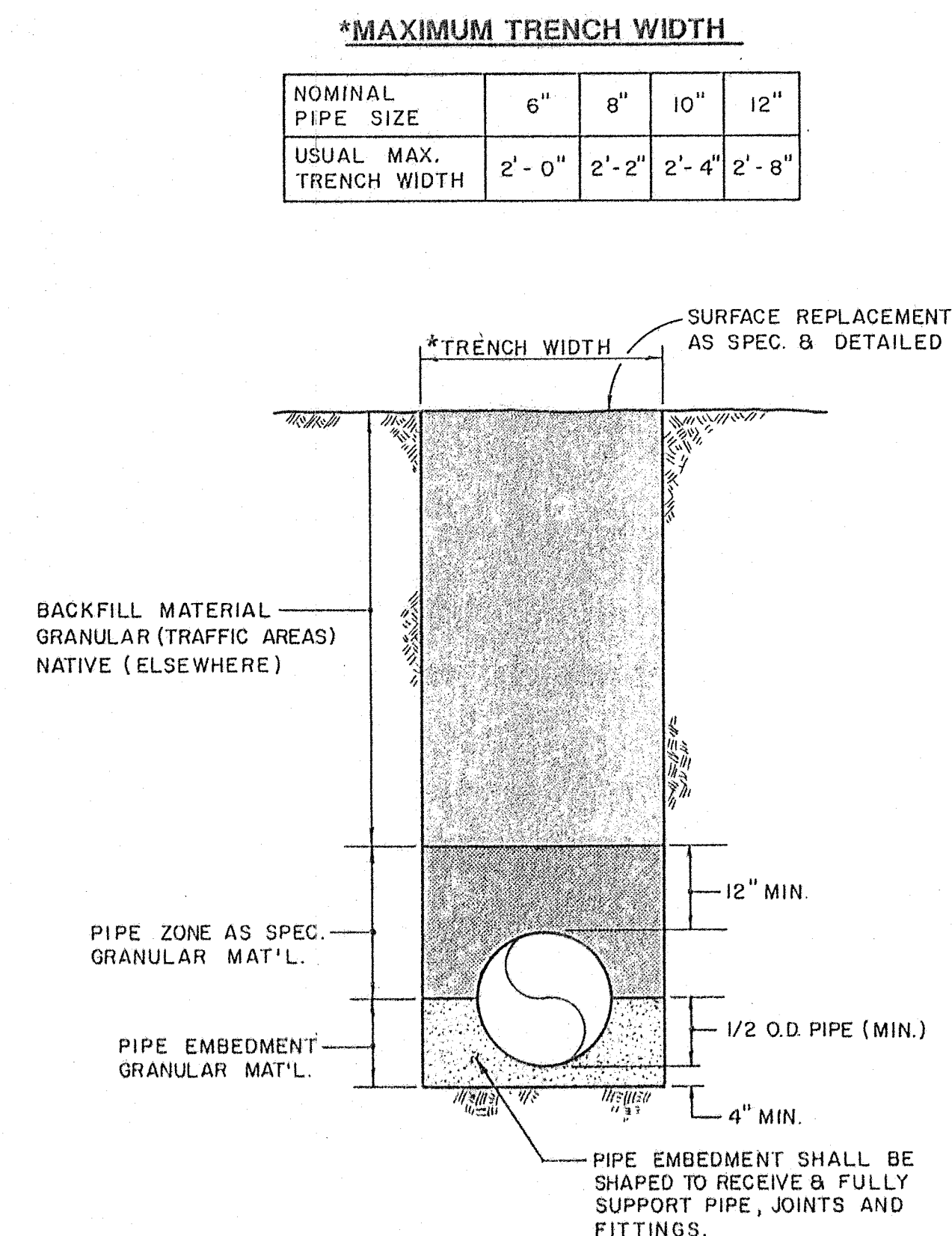
FLAT TOP STORM SEWER MANHOLE



SCREEN WALL DETAIL



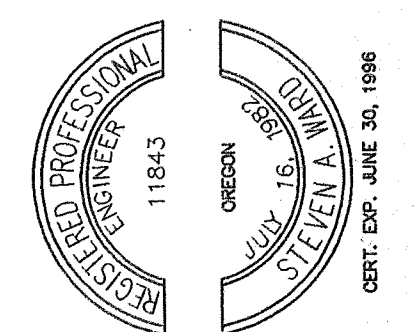
STD. CLEANOUT



PIPE TRENCH

WEST LINN/HGWY 43

C3-B



McDonald's
WESTSIDE ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3421 25th ST. S.E. SALEM, OR.
(503) 565-2474
CERT. EXP. JUNE 30, 1998

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DETAILS

