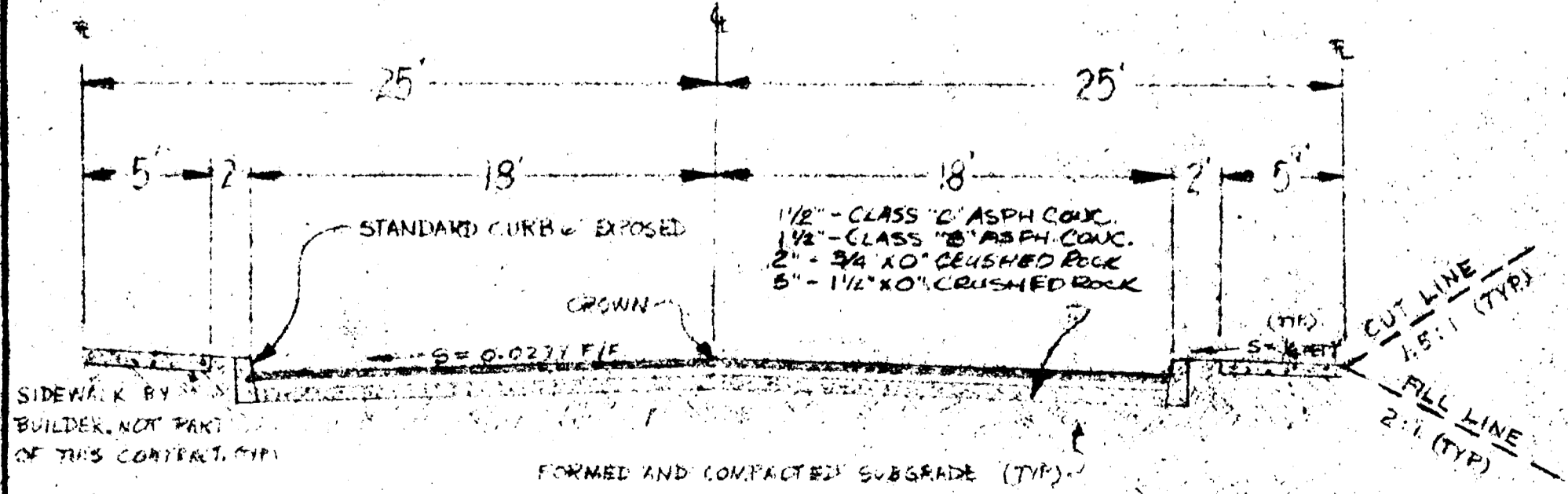


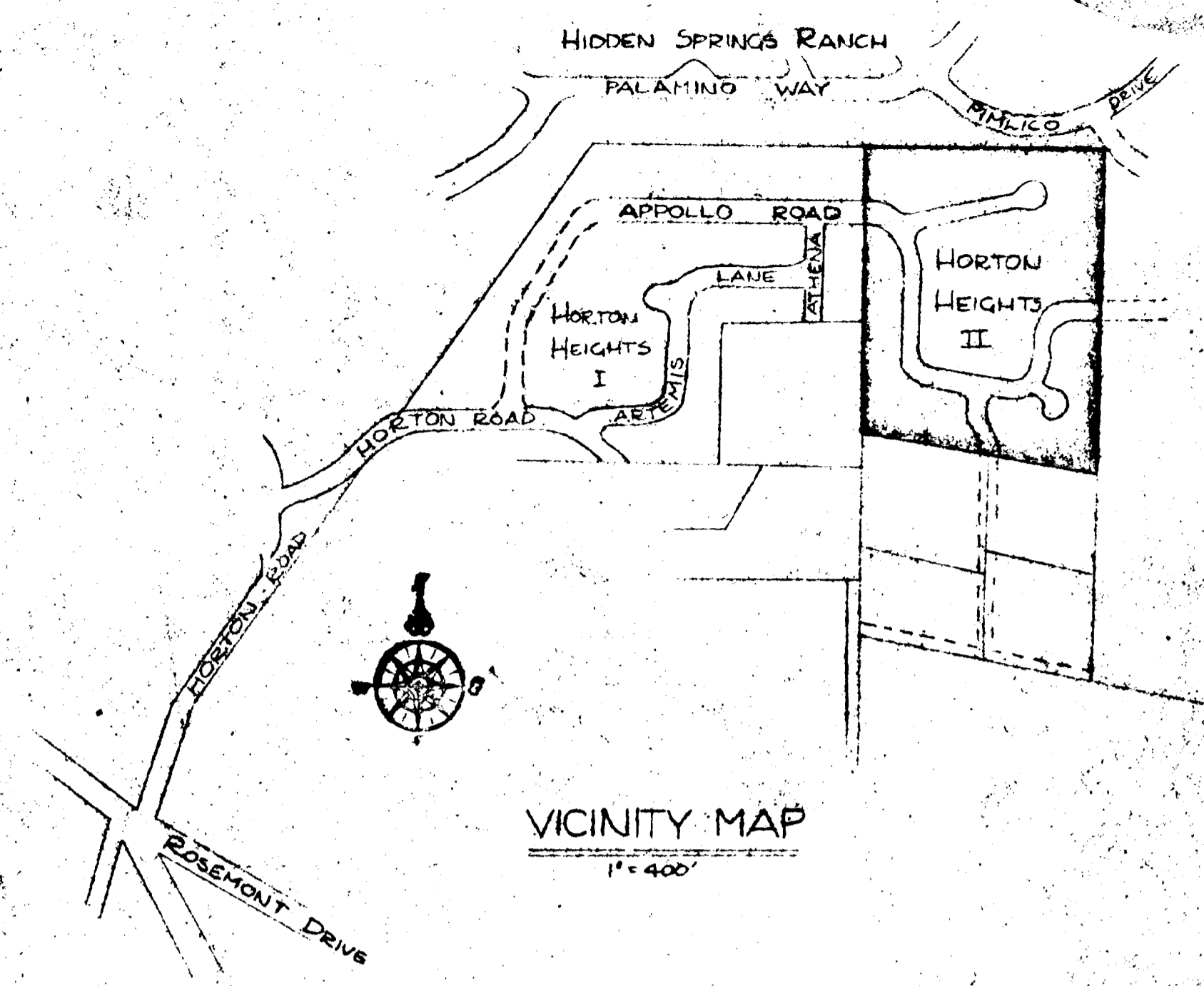
PLAN
1"=100'

TYPICAL STREET SECTION



STREET AND STORM DRAINAGE NOTES

- ALL WORK AND MATERIAL TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN PUBLIC WORKS DEPARTMENT O.S.H.D. AND A.P.W.A. OREGON CHAPTER SPECIFICATION.
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION TWO (2) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, A.P.W.A. OREGON CHAPTER.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, AND OTHER MATERIAL IN THE ROADWAY AND WHERE INDICATED ON THE PLAN. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS.
- CONCRETE CULVERT PIPE SHALL BE ASTM C 14 CLASS 3 NONREINFORCED CONCRETE PIPE OR ASTM C 76 CLASS III REINFORCED CONCRETE PIPE.
- PIPE BEDDING SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIV. III SECTION 61-3.03.82 AND 61-3.05.
- CORRUGATED METAL PIPE SHALL BE ASPHALT-COATED 16 GAGE GALVANIZED STEEL PIPE AND COUPLING BANDS CONFORMING TO OSHD SECTION 603.
- TRENCHES WITHIN THE RIGHTS-OF-WAY SHALL BE BACKFILLED WITH GRANULAR MATERIAL. BEDDING TO BE CLASS B.
- COMPACTION SHALL BE SUFFICIENT TO PREVENT FUTURE SETTLEMENT. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE REQUIRED COMPACTION.
- TRENCH BACKFILL OUTSIDE OF PAVED AREAS MAY BE EXCAVATED TRENCH MATERIAL. BEDDING TO BE CLASS "B"
- MATERIAL IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH PIT RUN CRUSHED ROCK. THE ENTIRE SUBGRADE SHALL BE THOROUGHLY COMPACTED AT THE LOWEST MOISTURE CONTENT AT WHICH A HANDFUL OF THE SOIL CAN BE MOULDED BY A FIRM CLOSING OF THE HAND. (95% COMPACTION AASHTO T180)
- AN INSPECTOR WILL BE ON THE PROJECT AS DEEMED NECESSARY BY ENGINEER. IF INSPECTOR IS NOT PRESENT, CONTRACTOR SHALL CALL FOR INSPECTION OF TRENCHES PRIOR TO BACKFILLING AND PRIOR TO POURING MANHOLE BASES. ALSO, CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADING IS COMPLETED AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR INSPECTION OF THE WORK. SEE SECTION 5.01 A.P.W.A. SPECIFICATIONS.
- ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A JOB MIX FORMULA APPROVED BY THE O.S.H.D. FOR MATERIAL USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT UNLESS OTHERWISE INDICATED.
- EXCESS EXCAVATION TO BE COMPACTED ON LOTS 7, 8, AND 9 BLOCK 3, LOTS 7, 8, AND 19 THROUGH 24 OF BLOCK 1 AND AS DIRECTED BY OWNER. VEGETATION AND TOP SOIL TO BE STRIPPED OFF FILL AREAS PRIOR TO FILLING.
- CONTRACTOR TO APPLY SEDIMENTATION CONTROL MEASURES IN EACH DRAINAGE WAY AS DIRECTED BY ENGINEER.
- THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.



VICINITY MAP
1"=400'

INDEX

SHEET	TITLE
1	INDEX SHEET
2	ROADWAY IMPROVEMENT PLAN
3	STREET PROFILES
4	STORM DRAIN PROFILES AND DETAILS
5	SANITARY SEWER PLAN
6	SANITARY SEWER PROFILES
7	CONSTRUCTION DETAILS
8	WATERLINE AND SERVICE PLAN

HORTON HEIGHTS II
CITY OF WEST LINN, OREGON



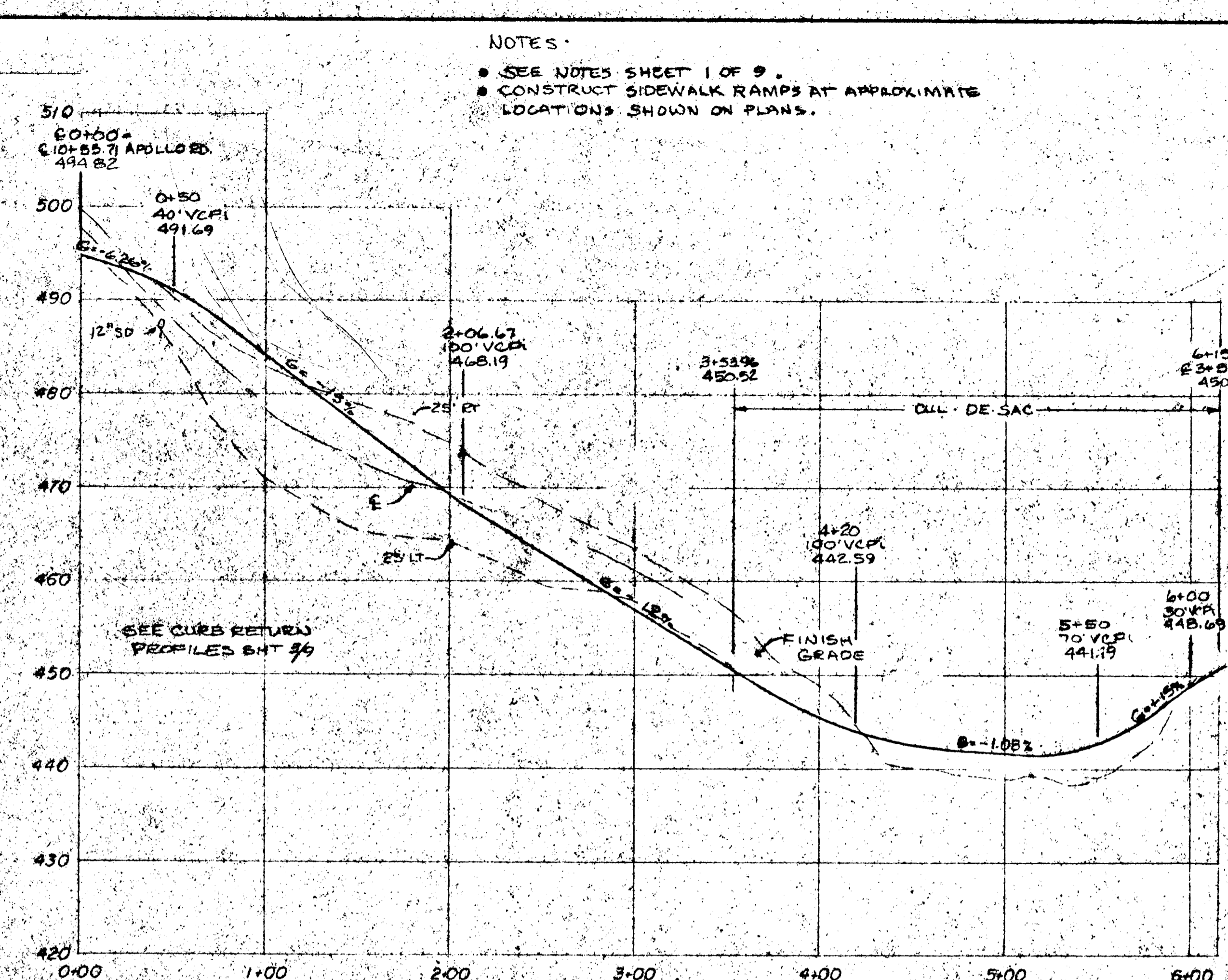
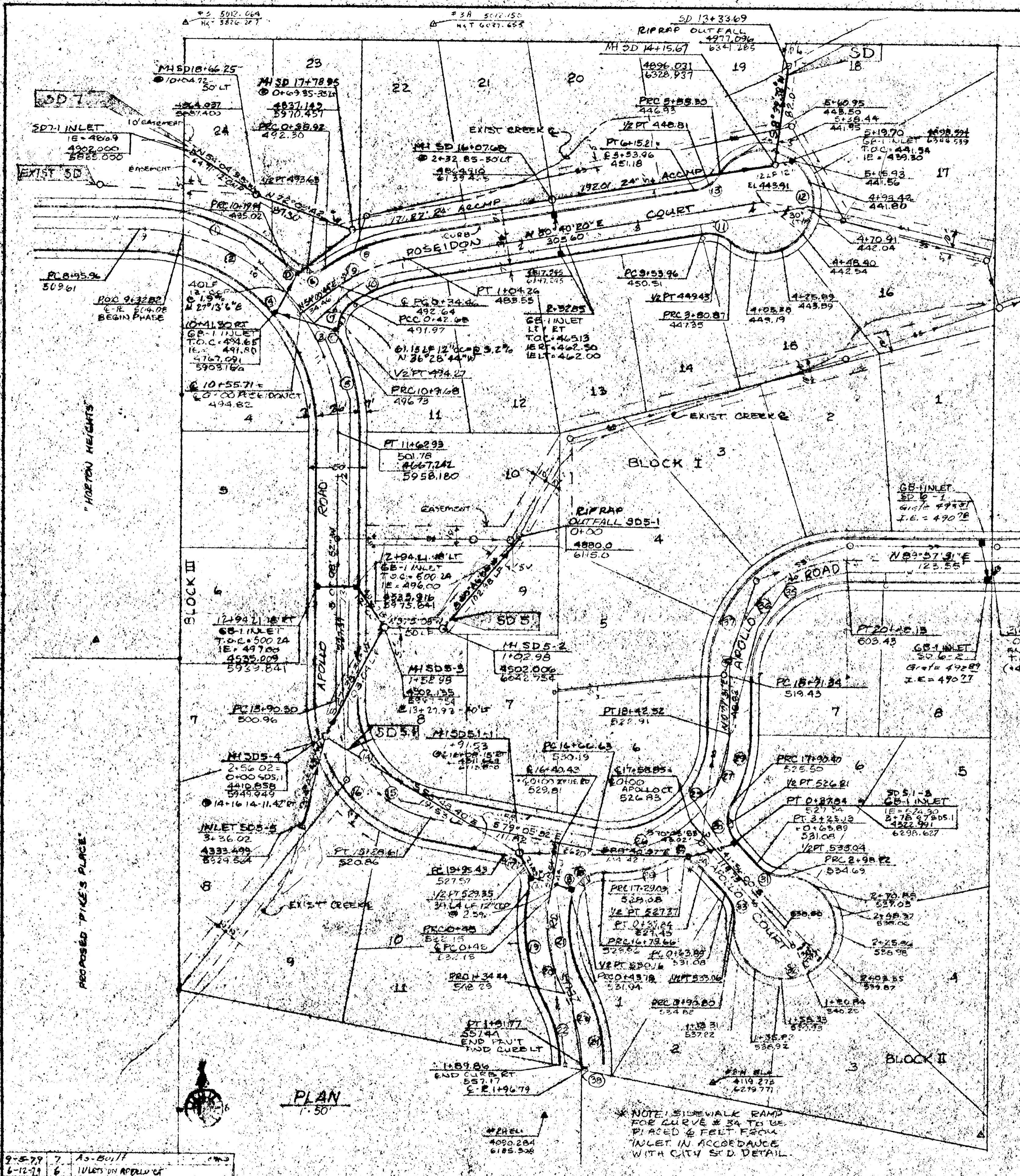
10-19-79	3	AS CONSTRUCTED
11-9-78	2	NOTE, APPROVED FOR WEST
11-6-78	1	NOTE, SECTION 5, SAT. NO.
DATE	NO.	REVISION

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
8564 S.E. LAKE ROAD
WAUKIE, OREGON 97222

MR. NICK FOSSES
1957 CARRIAGE WAY
WEST LINN OREGON 97068
636-0220

INDEX SHEET

OCT 29 1979



NOTES:
 • SEE NOTES SHEET 1 OF 9.
 • CONSTRUCT SIDEWALK RAMP AT APPROXIMATE LOCATIONS SHOWN ON PLANS.

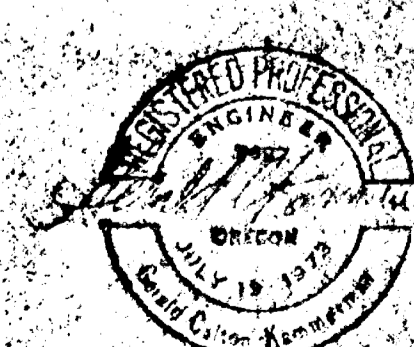
CURVE DATA

CURVE	RADIUS	DELTA	LENGTH	RADIUS POINT	CURVE	RADIUS	DELTA	LENGTH	RADIUS POINT
1 CURB	188'	30°34'10"	100.31'		19 CURB	143'	39°20'25"	98.19'	
2 E	170'	41°25'10"	122.89'		20 E	125'	39°20'25"	85.83'	4248.894 6262.032
3 E	170'	35°08'08"	107.22'	4667.681 5788.181	21 CURB	107'	39°20'25"	73.47'	
4 CURB	152'	75°45'28"	200.96'		22 CURB	107'	25°24'16"	47.44'	
5 CURB	188'	24°00'39"	78.76'		23 E	125'	26°16'47"	57.33'	4129.842 6042.200
6 CURB	27'	76°14'16"	35.93'	4827.571 5931.917	24 CURB	143'	26°16'47"	65.59'	
7 CURB	27'	81°00'47"	38.18'	4754.659 5984.801	25 CURB	82'	100°46'37"	144.23'	
8 CURB	168'	24°57'22"	73.18'		26 E	100'	52°50'06"	92.22'	
9 E	150'	26°39'36"	69.80'	4666.450 6041.758	27 E	100'	47°56'29"	83.67'	4413.505 6193.123
10 CURB	132'	23°31'20"	54.19'		28 CURB	118'	27°18'20"	56.24'	
11 CURB	32'	48°11'23"	26.91'	4805.600 6271.941	29 CURB	118'	29°51'42"	61.50'	
12 CURB	43'	276°22'46"	207.43'	4864.000 6919.000	30 CURB	27'	71°55'11"	33.89'	4341.034 6318.713
13 CURB	32'	48°11'23"	26.91'	4904.278 6255.733	31 CURB	32'	48°11'23"	26.91'	4325.000 6339.838
14 CURB	82'	79°14'44"	113.41'		32 CURB	43'	276°22'46"	207.43'	4250.000 6340.000
15 E	100'	79°14'44"	138.31'	4439.610 6057.593	33 CURB	32'	48°11'23"	26.91'	4258.113 6265.446
16 CURB	118'	79°14'44"	163.21'		34 CURB	27'	71°55'11"	33.89'	4280.890 6251.759
17 CURB	27'	90°	42.41'	4284.588 6095.782	35 CURB	82'	89°50'00"	128.57'	
18 CURB	27'	82°33'02"	38.90'	4268.761 6184.390	36 E	100'	89°50'00"	156.79'	4461.889 6393.229
					37 CURB	118'	89°50'00"	185.01'	
					38 E	125'	2°18'04"	5.02'	4129.842 6042.200

SELECT INLETS

INLET	ROAD STA	SD/SI STA	IE	T.O.C.	REF PT
②	IN CURB RETURN ①		IN-527.10 OUT-527.00	530.43	4289.626 6122.399
③	IN CURB RETURN ②			530.80	4281.789 6160.737
④	IN CURB RETURN ③	3+35.95	524.70	527.20	4308.319 6258.181
⑤	IN CURB RETURN ④		IN-491.04 OUT-490.84	494.29	4803.551 5919.586
⑥	IN CURB RETURN ⑤		493.00	495.73	4751.435 5957.984

HORTON HEIGHTS II
 CITY OF WEST LINN, OREGON



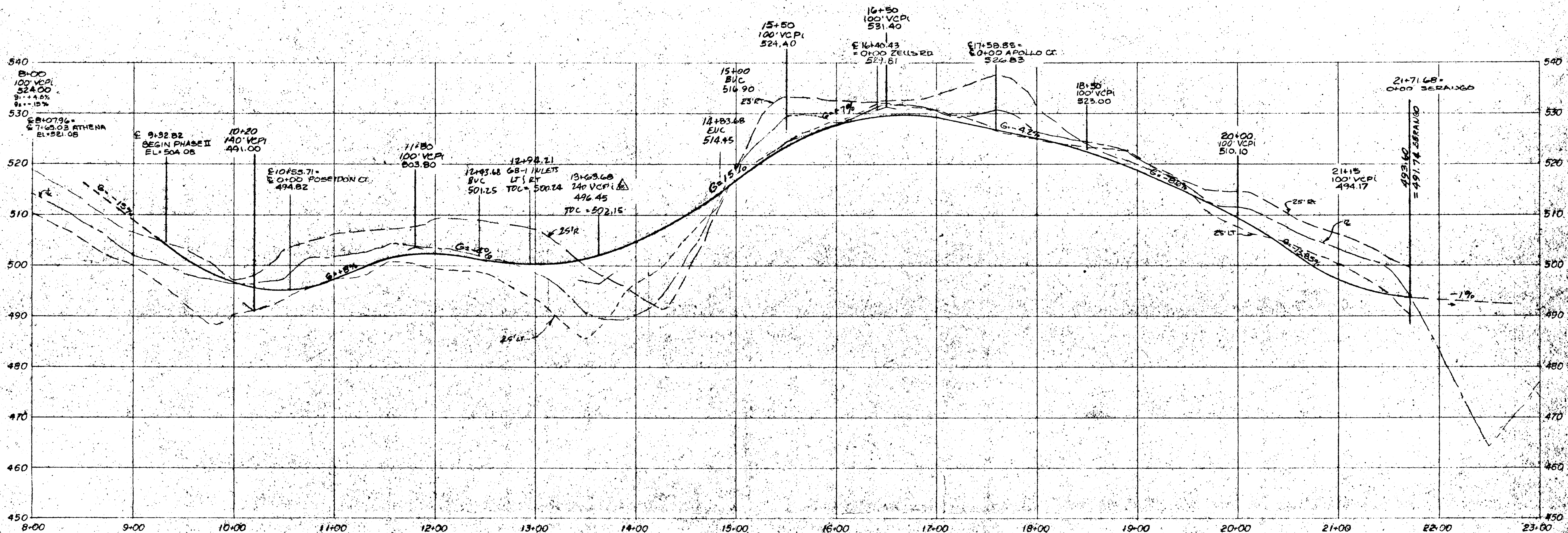
NO.	REVISION
1	AS-BUILT
2	INLETS ON APOLLO CT
3	APOLLO CT GRADE
4	APPROVED FOR SUBMIT
5	SDS, SD SI
6	GRADE POSEIDON COURT, SDSI
7	EASEMENTS, ELEV

SCALE: AS NOTED
 DATE: 7-27-78
 FILE: TT-1135-931-II

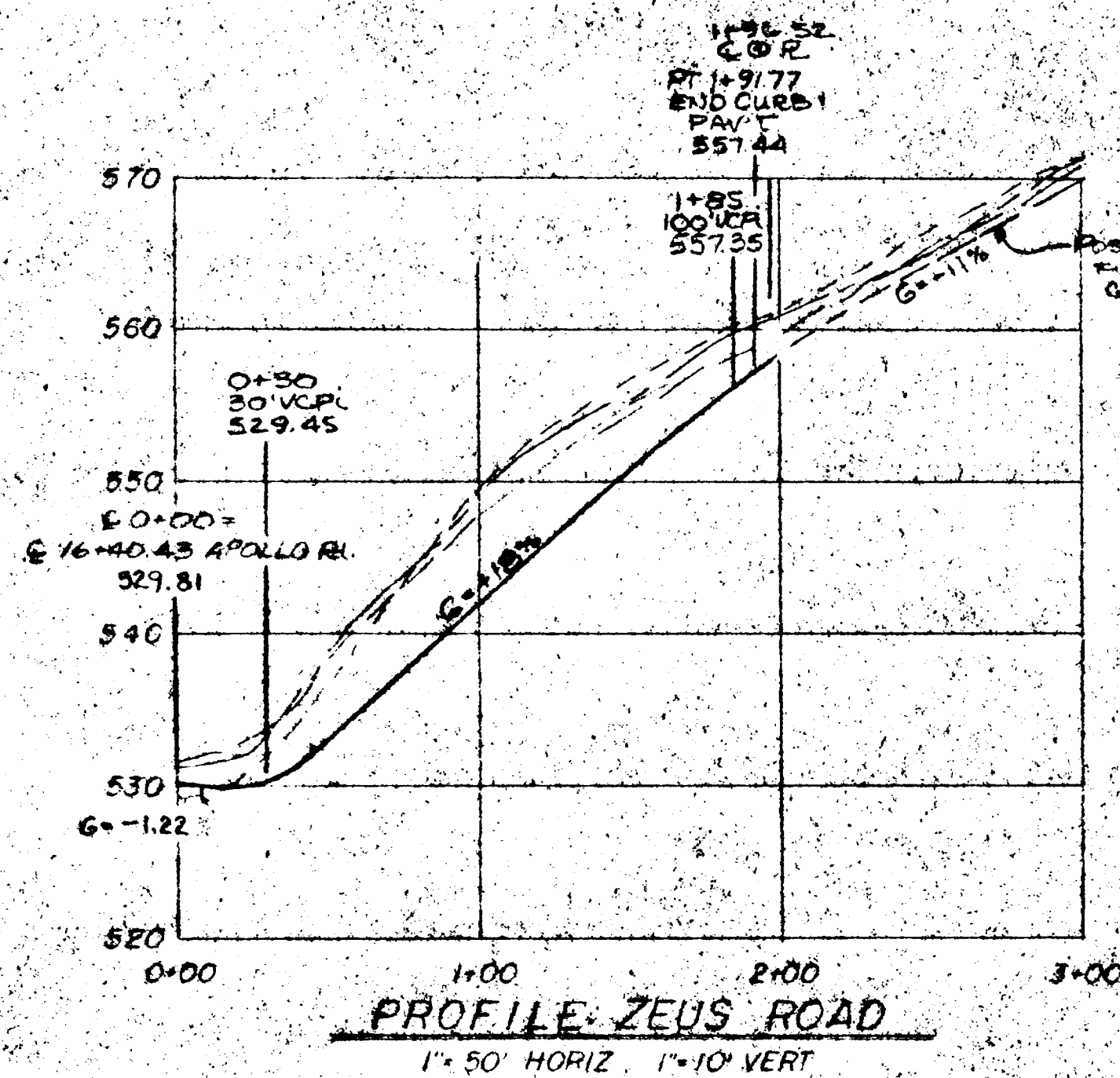
COMPASS CORPORATION
 ENGINEERING SURVEYING PLANNING 653-9043
 6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

MR. NICK FOSSES
 1957 CARRIAGE WAY
 WEST LINN OREGON 97068

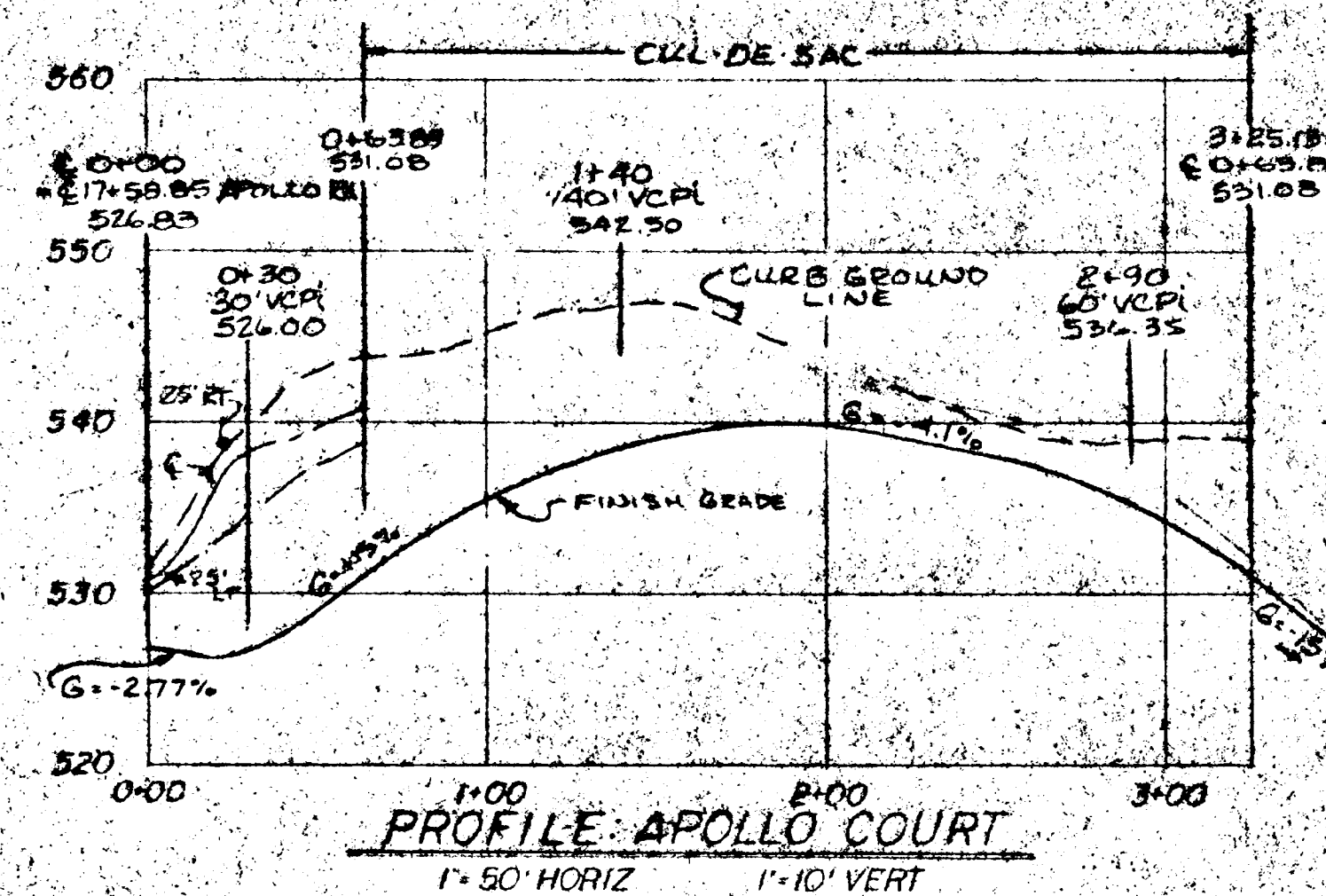
ROADWAY IMPROVEMENT PLAN AND PROFILE
 OCT 29 1979



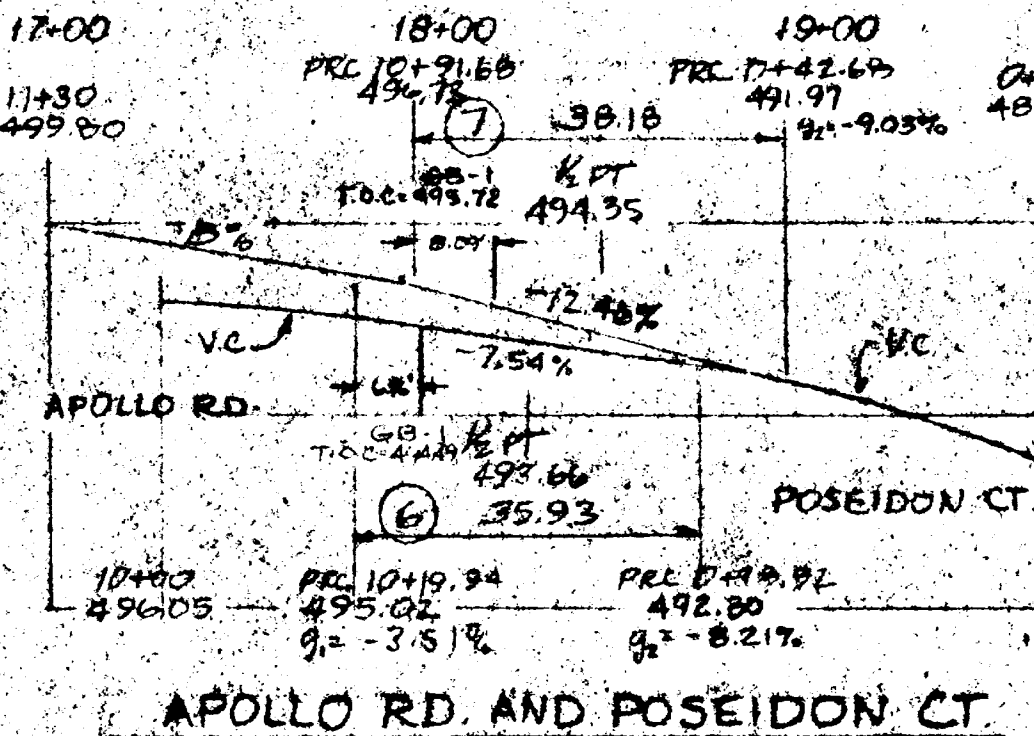
PROFILE APOLLO ROAD
1"=50' HORIZ 1"=10' VERT



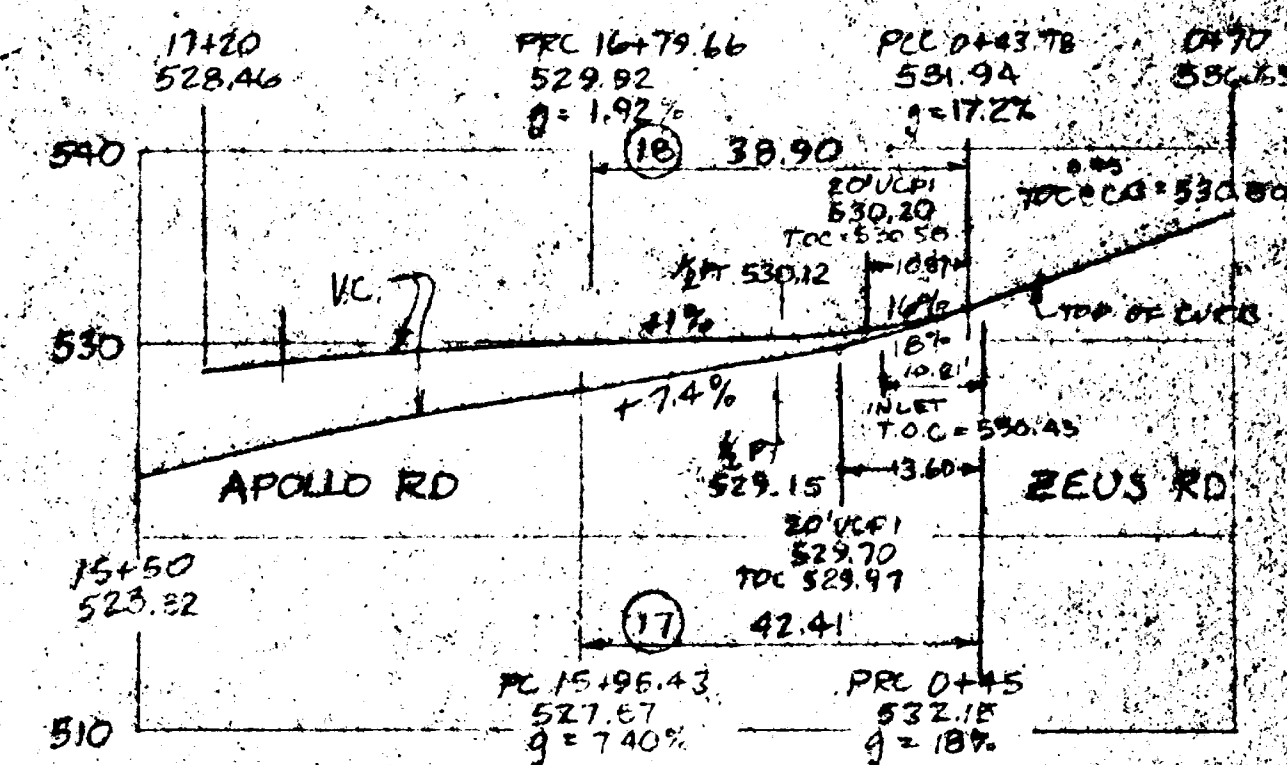
PROFILE ZEUS ROAD
1"=50' HORIZ 1"=10' VERT



PROFILE APOLLO COURT
1"=50' HORIZ 1"=10' VERT

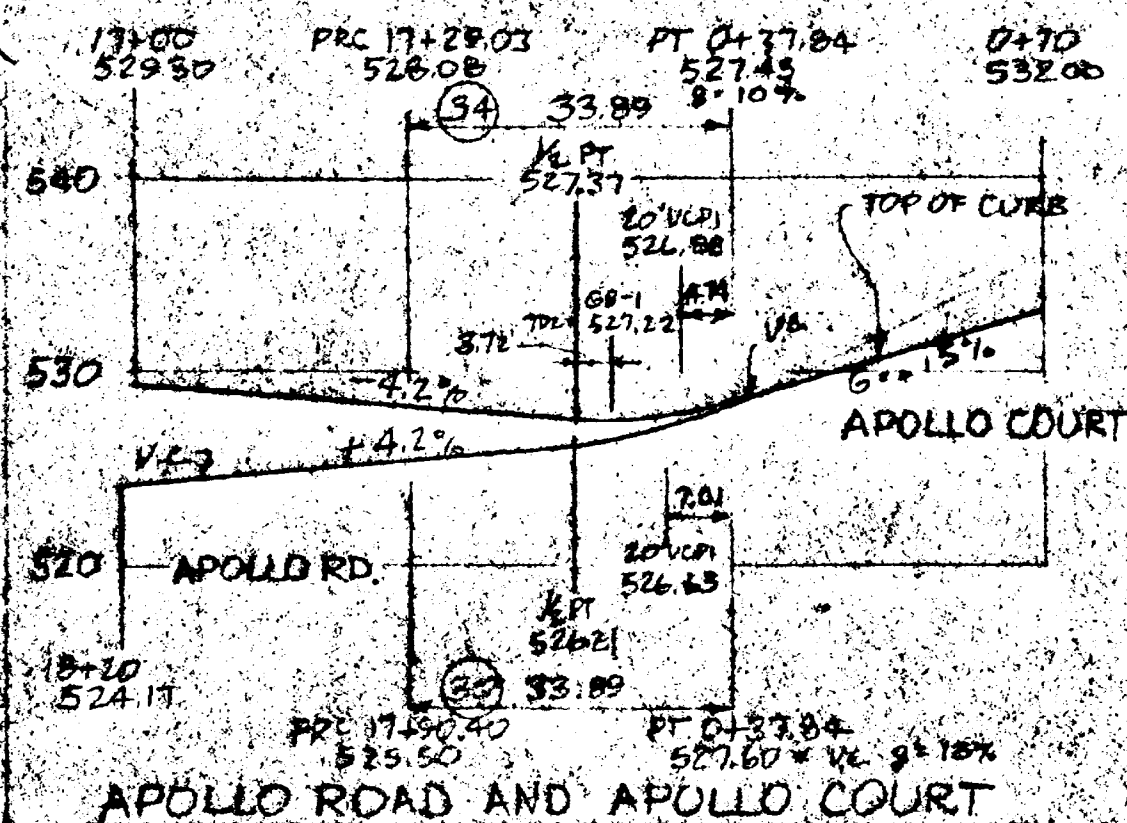


APOLLO RD. AND POSEIDON CT.



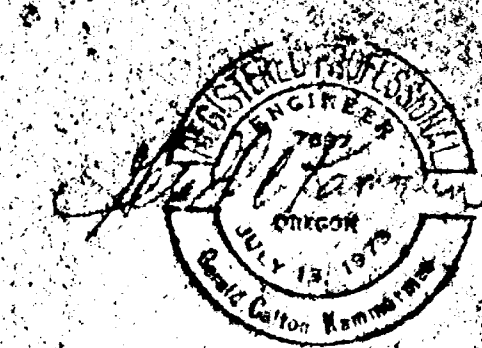
APOLLO RD. AND ZEUS RD.

CURB RETURN PROFILES
1"=20' HORIZ 1"=10' VERT



APOLLO ROAD AND APOLLO COURT

HORTON HEIGHTS II
CITY OF WEST LINN OREGON



10-17-77	7	AS CONSTRUCTED	CNA
6-12-79	10	APOLLO RD. U/L LENGTH INCREASE	
12-18-78	5	APOLLO CT. GRADES	
11-9-78	4	APPROVED FOR CONSTRUCTION	
11-8-78	3	GRADES	
10-17-78	2	GRADES	
9-26-78	1	GRADES	
DATE	NO.	REVISION	

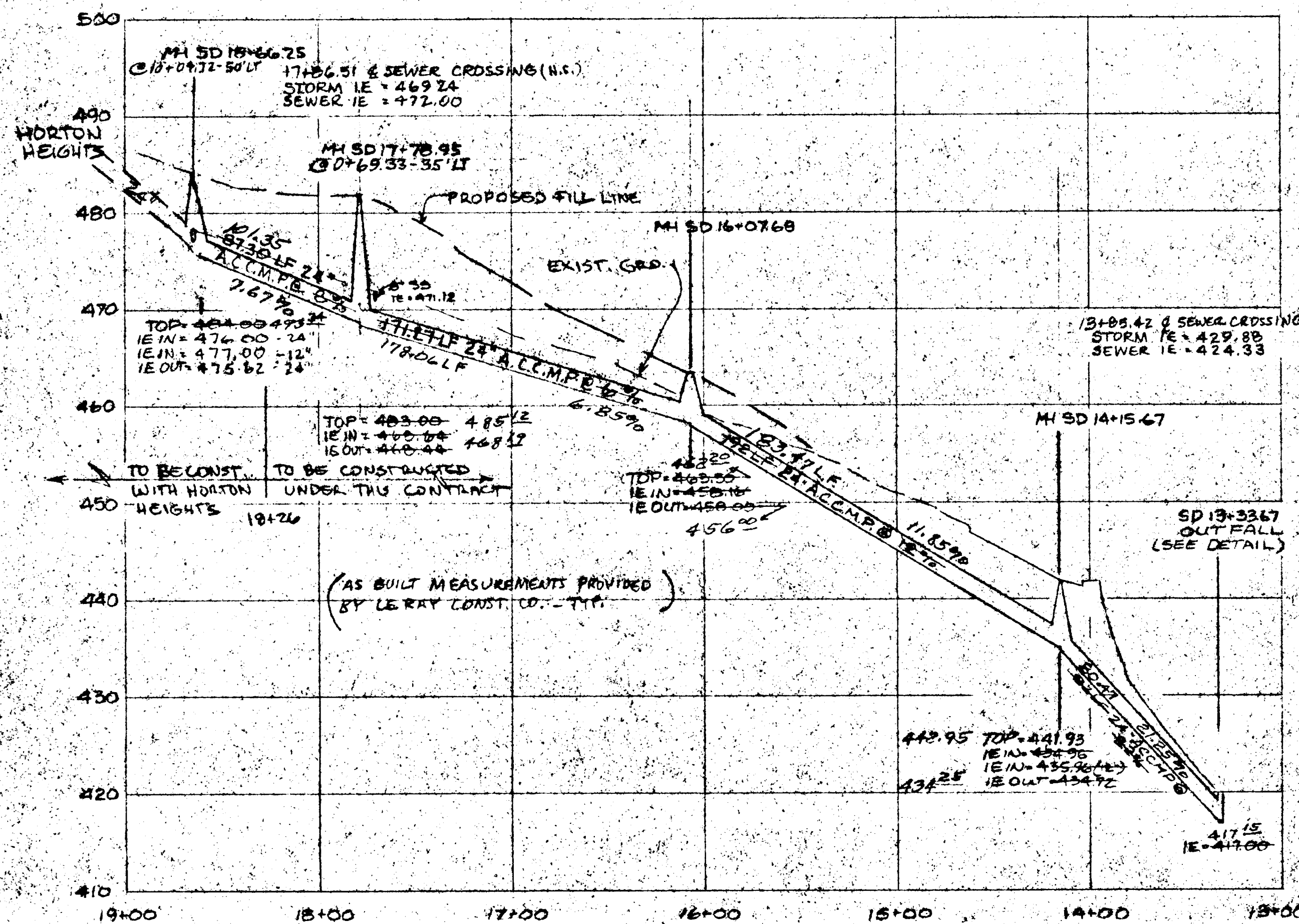
DRAWN AS SHOWN DATE 9-22-78
FILE 77-115-931-II

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
5564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

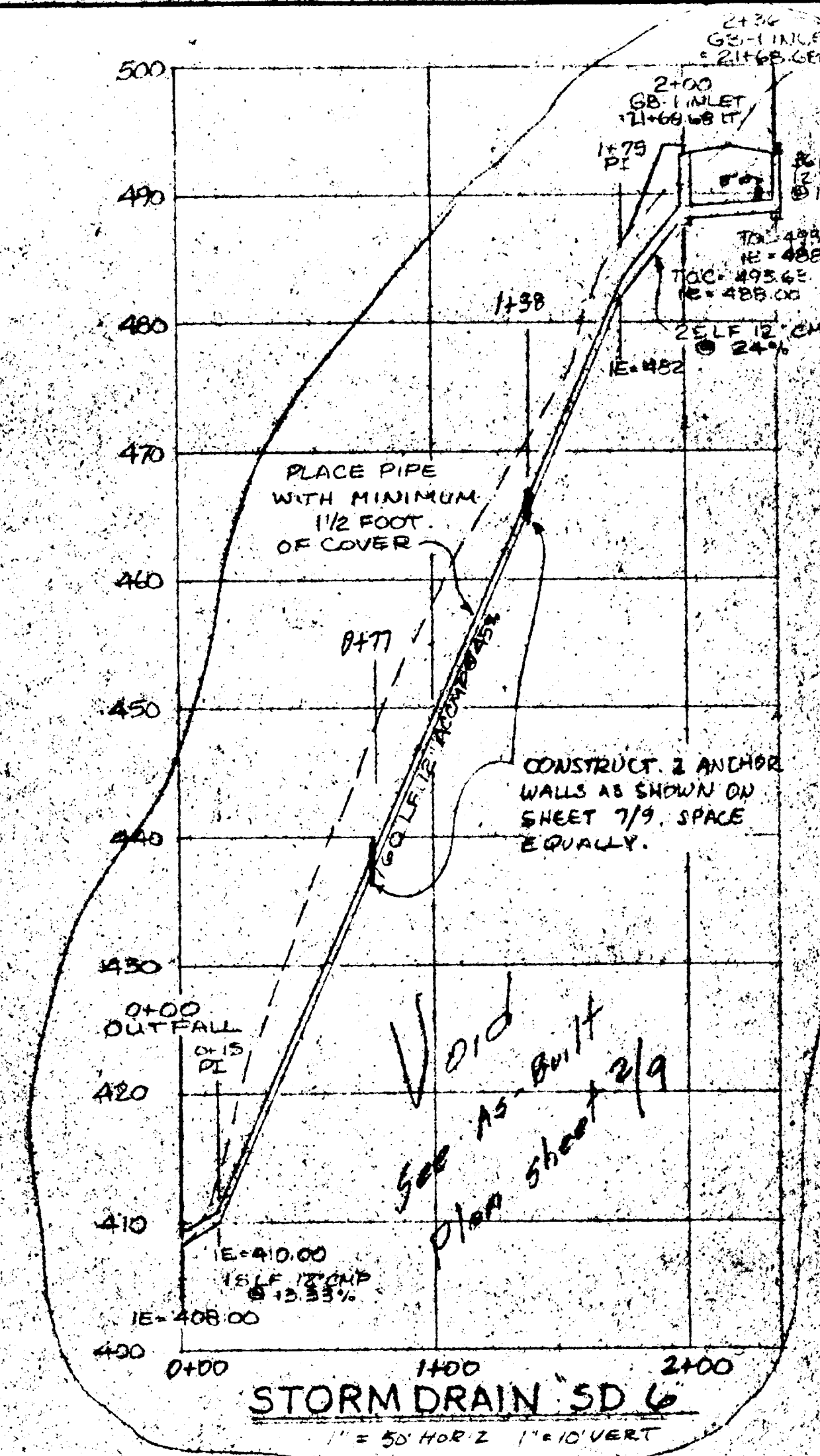
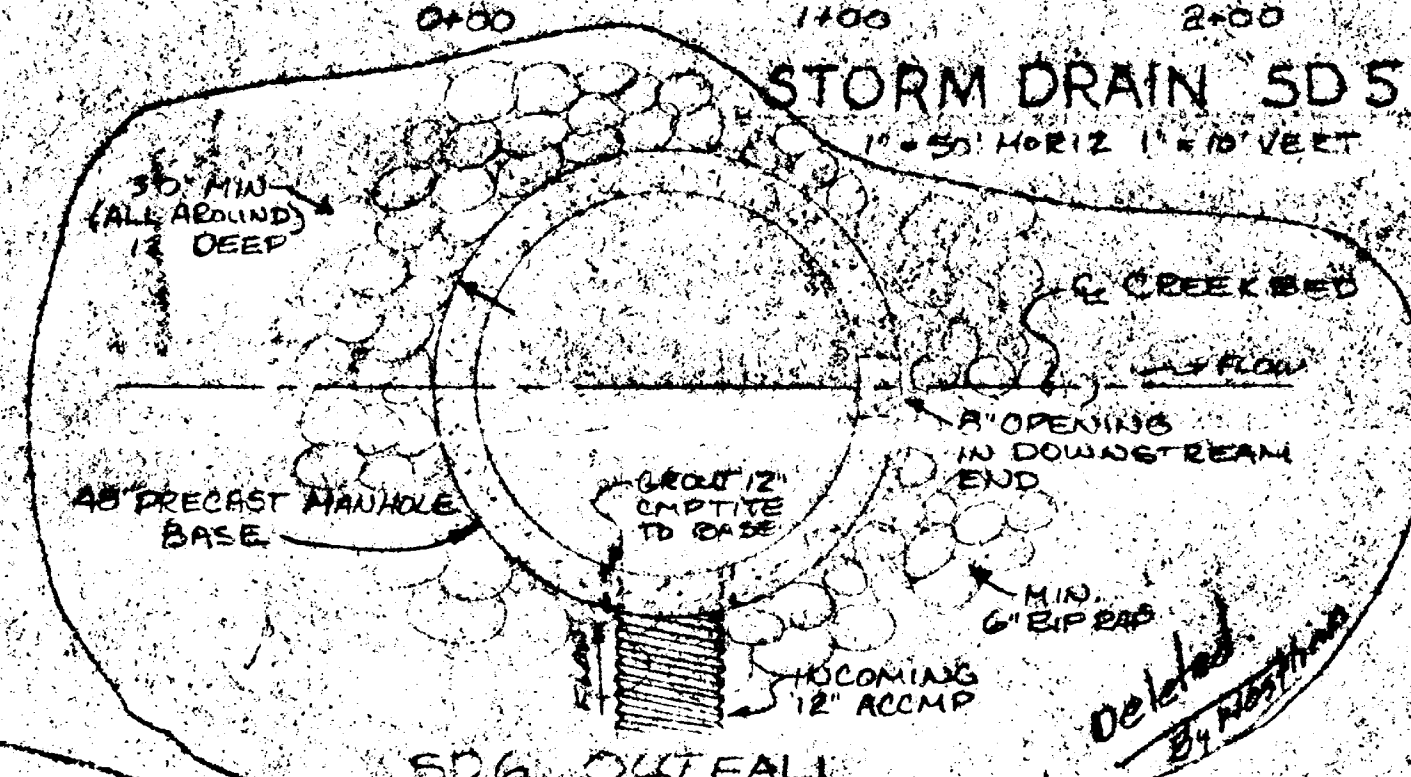
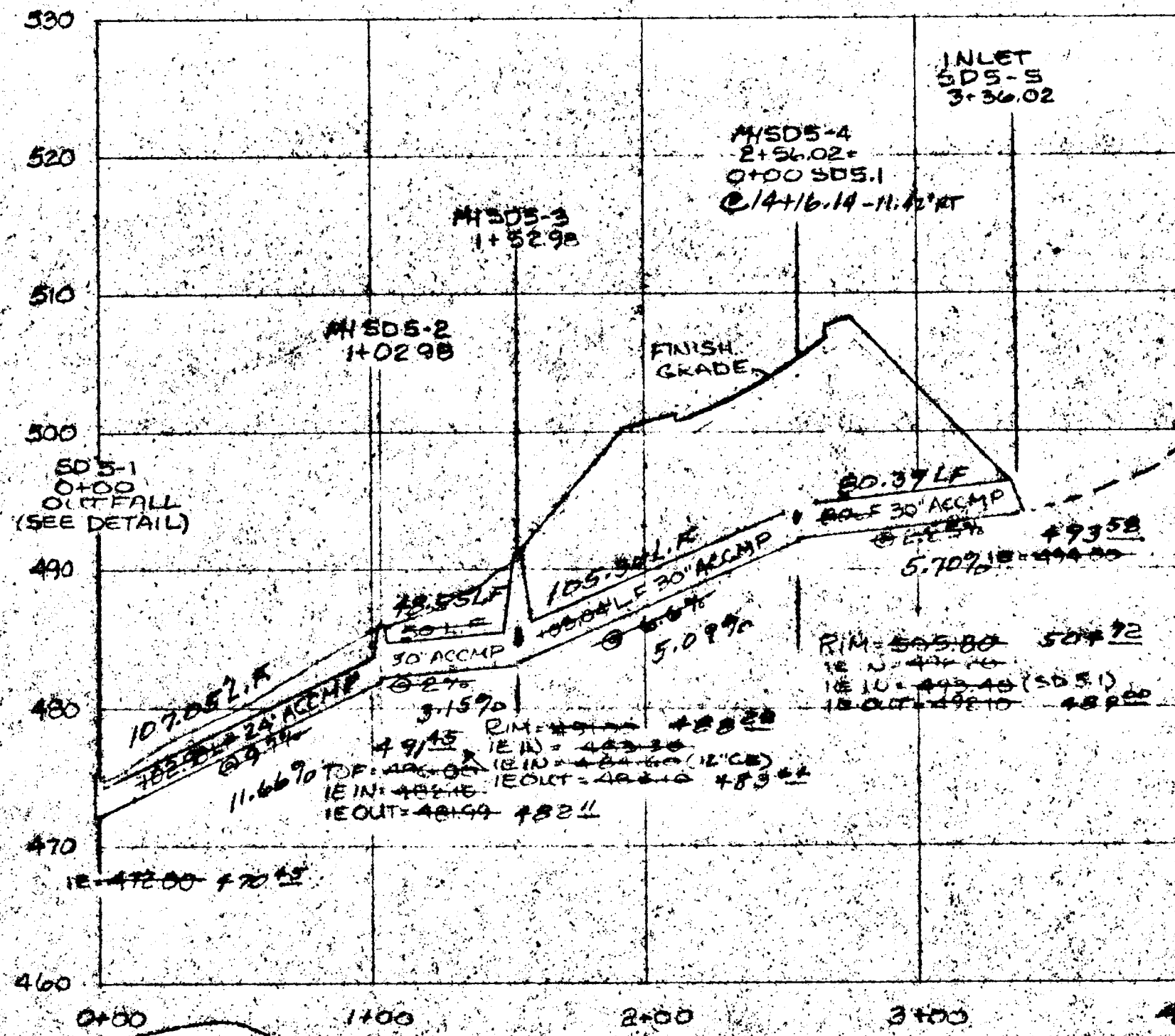
MR. NICK FOSSEY
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

636-0220

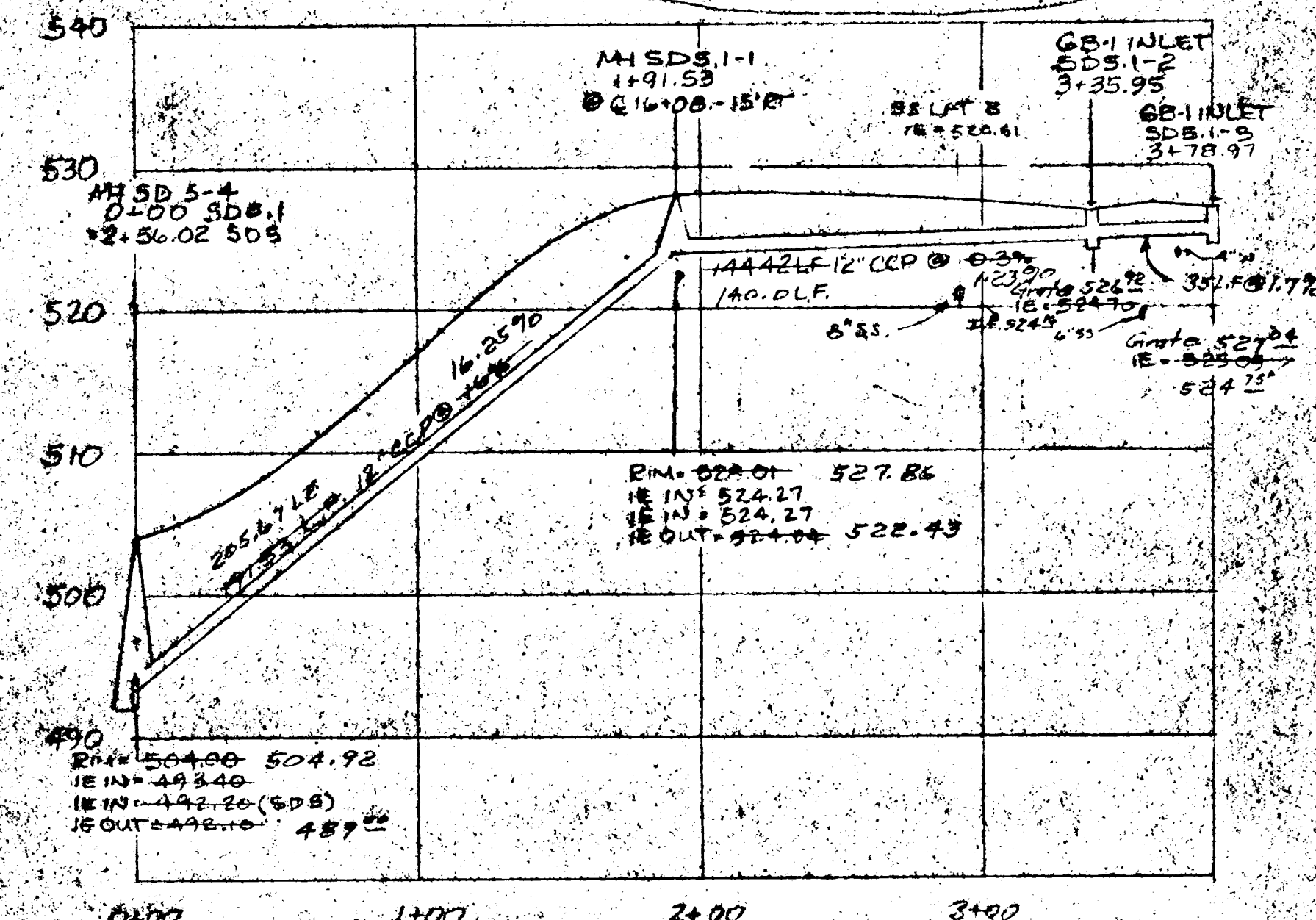
STREET PROFILES OCT 29 1979



STORM DRAIN "SD"
1" = 50' HORIZ 1" = 10' VERT

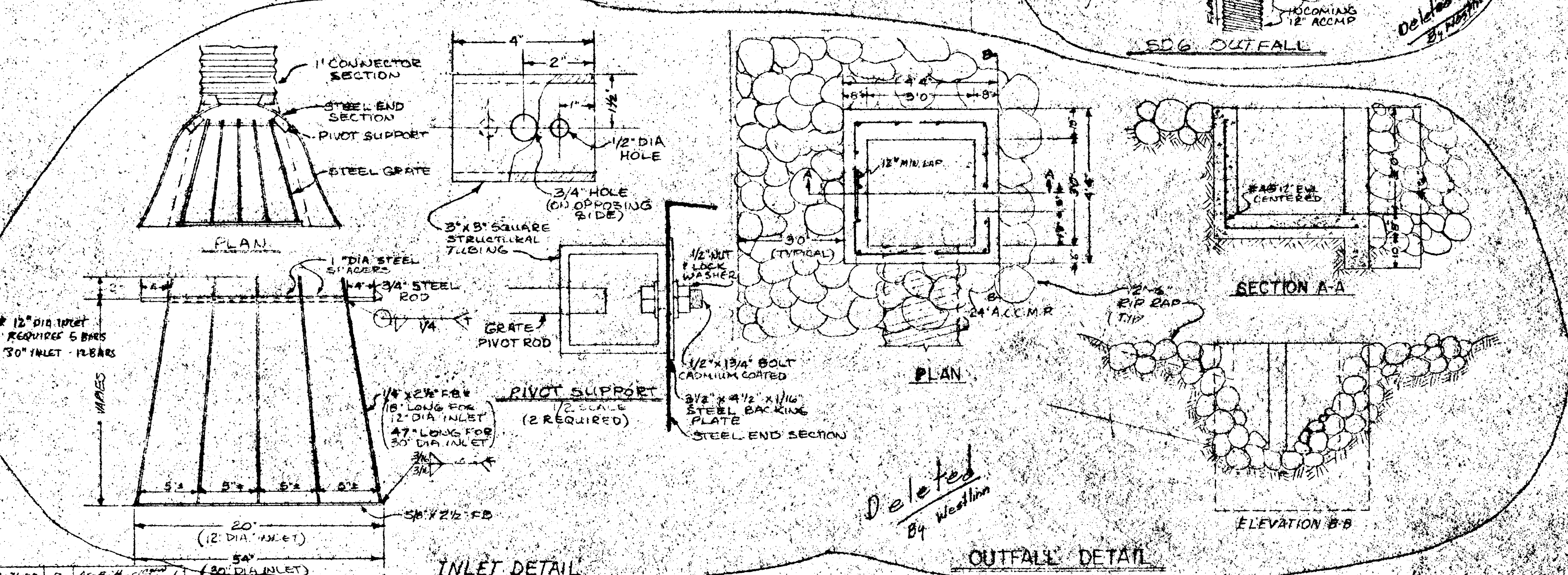


STORM DRAIN "SD 6"
1" = 50' HORIZ 1" = 10' VERT



STORM DRAIN SD 5.1
1" = 50' HORIZ 1" = 10' VERT

HORTON HEIGHTS II
CITY OF WEST LINN, OREGON



DATE	NO.	REVISION
11-9-78	4	APPROVED FOR CONST.
11-11-78	5	SD 5, SD 5.1
11-12-78	6	SD 5, SD 5.1, SD 5.1.1
12-18-78	7	SD 5, SD 5.1, SD 5.1.1, SD 5.1.2

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

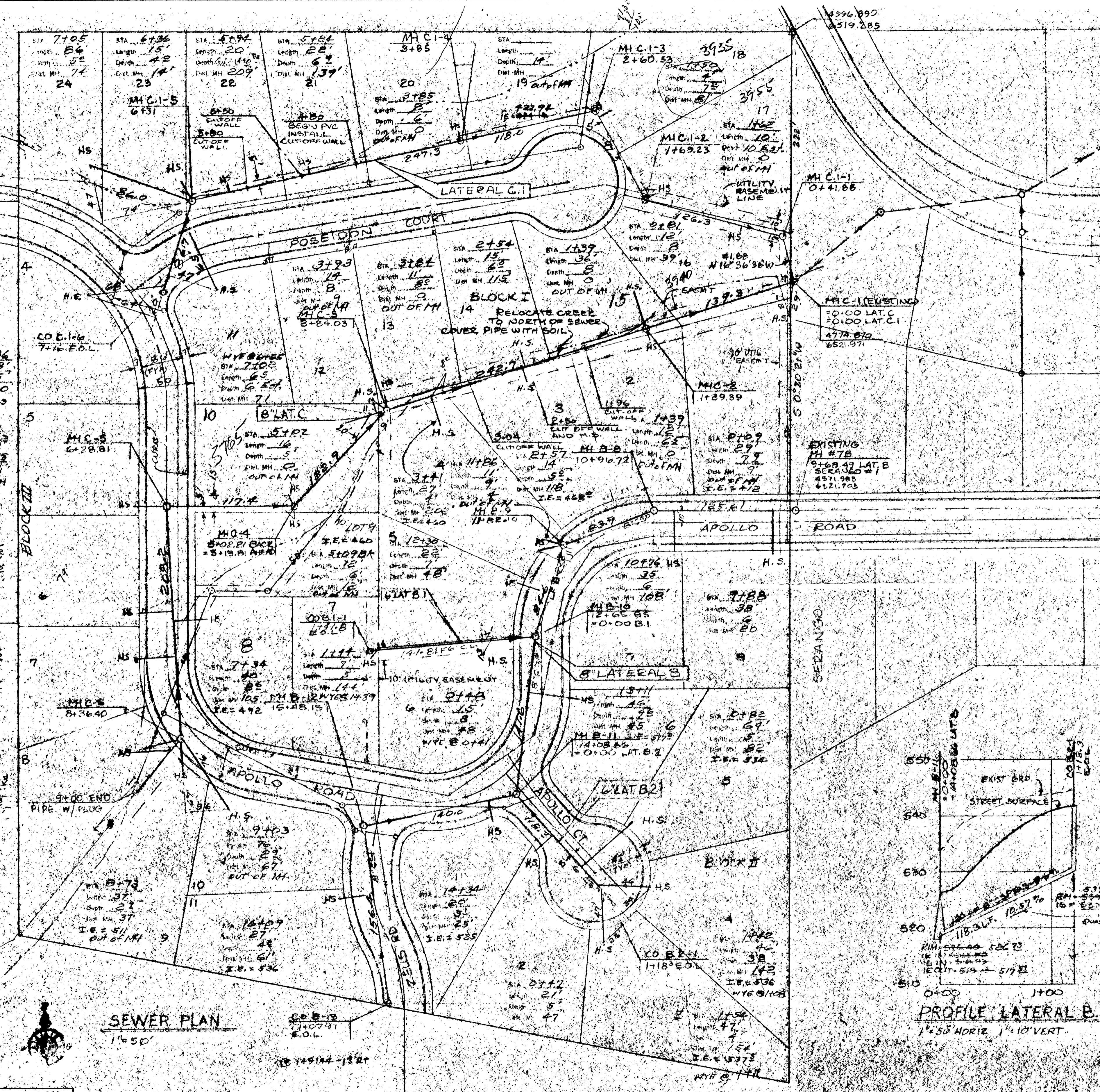
NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

PH. 636-0220

STORM DRAIN PROFILES AND DETAILS

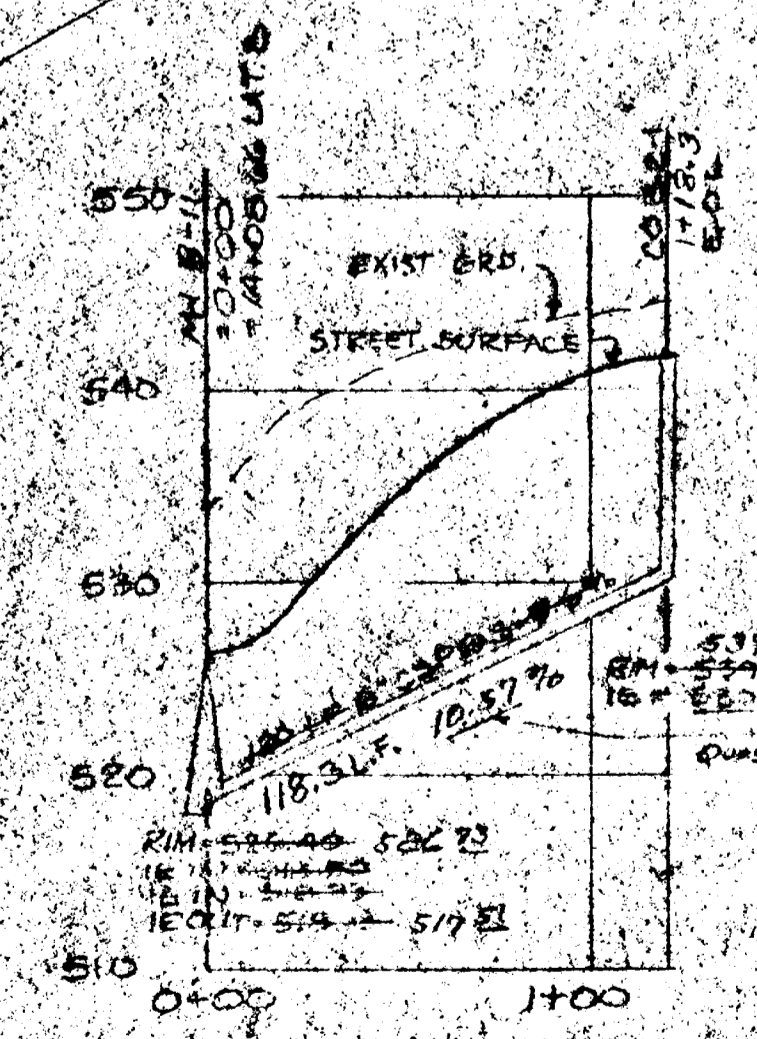
OCT 29 1979

PROPOSED PIPES PLACES
HORTON HEIGHTS

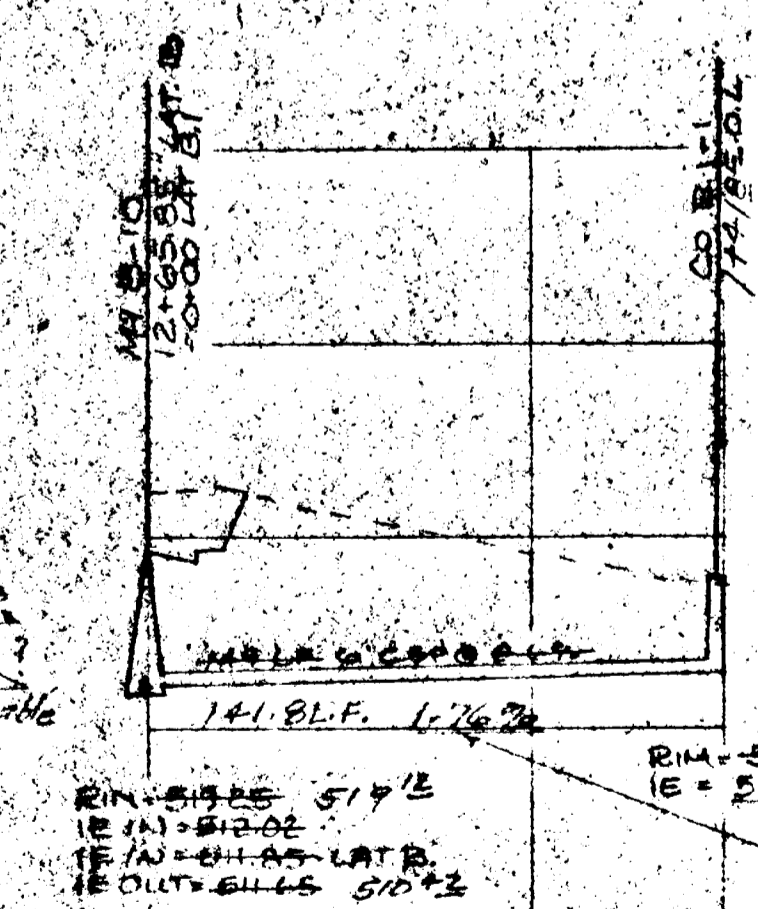


- SANITARY SEWER CONSTRUCTION NOTES:**
- CONSTRUCTION SHALL CONFORM WITH THE CITY WEST LINN AND A.P.W.A. SPECIFICATIONS FOR CONSTRUCTION OF SANITARY SEWERS.
 - CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
 - CONCRETE SANITARY SEWER PIPE SHALL BE ASTM 212, CLASS 2 NON-REINFORCED CONCRETE PIPE WITH RUBBER GASKETS.
 - CONTRACTOR TO LOCATE ALL UTILITIES BEFORE STARTING CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
 - EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY CONTRACTOR. ADDITIONAL UNDEGROUND UTILITIES MAY EXIST.
 - ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
 - BUILDING SERVICE CONNECTIONS TO BE 4-INCH SEWER PIPE AND SHALL EXTEND TO DISTANCE SHOWN ON PLANS AND END AT ELEVATION SHOWN.
 - SERVICE CONNECTION TO SLOPE 2% MINIMUM UP TO FUTURE HOUSE LOCATION FROM SEWER LATERAL OR MAIN.
 - WYES AND 1/8TH BENDS REQUIRED FOR SERVICE CONNECTION.
 - STATIONING AND DISTANCE SHOWN ON PLAN AND PROFILE ARE HORIZONTAL AND NOT SLOPE DISTANCE.
 - PIPE BENDING SHALL BE CLASS B AS INDICATED ON CONSTRUCTION DETAILS SHEET.
 - TRENCHES WITHIN THE RIGHTS-OF-WAY SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
 - COMPACTION SHALL BE SUFFICIENT TO PREVENT FUTURE SETTLEMENT. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE REQUIRED COMPACTION. SUBSEQUENT SETTLEMENT OF THE FINISHED SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
 - TRENCHES OUTSIDE OF RIGHTS-OF-WAY MAY BE BACKFILLED WITH EXCAVATED TRENCH MATERIALS. CONTRACTOR SHALL MOUND SOIL OVER TRENCH TO COMPENSATE FOR NORMAL SETTLEMENT.
 - CONTRACTOR SHALL PREPARE A PRINT OF THE ENGINEER SHOWING AS-CONSTRUCTED DATA: STATION OF WYE ALONG SEWER, LENGTH OF CONNECTION AND DEPTH OF SERVICE CONNECTION AT PROPERTY LINE OR END OF SERVICE AND ANY CHANGES MADE DURING CONSTRUCTION.
 - INSPECTOR WILL BE ON PROJECT AS DEEMED NECESSARY BY ENGINEER. IF INSPECTOR IS NOT PRESENT, CONTRACTOR SHALL CALL FOR INSPECTION PRIOR TO BACKFILLING TRENCH AND TO WITNESS PIPELINE TESTING.
 - MANHOLE C-4 OR C-5 MAY POSSIBLY BE ELIMINATED - DEPENDING ON FIELD CONDITIONS FOUND DURING CONSTRUCTION.
 - PVC SEWER PIPE SHALL BE ASTM 3034 SDR 35. SERVICE SADDLES TO BE GASKETED WITH TWO STAINLESS STEEL STRAPS AND RING-TYPE BELL OUTLET. WYE FITTING MAY BE SUBSTITUTED FOR SADDLE.
 - FOR CUT-OFF WALL DETAILS USE CONCRETE ANCHOR WALL DETAIL ON SHEET 7/9.

AS-BUILT MEASUREMENTS PROVIDED BY LEAN CONSTRUCTION, INC.



PROFILE LATERAL B.2
1"=50' HORIZ 1"=10' VERT.



PROFILE LATERAL B.1
1"=50' HORIZ 1"=10' VERT.

9-8-79	7	AS-BUILT
4-3-79	6	LAT. C. DIM. AND ANCHORS
11-8-78	5	CODE-LEIM
11-9-78	4	APPROVED FOR CONST.
11-8-78	3	PVC SEAS, ALTERNATE, CUT-OFFS
10-17-78	2	EOL, J.O. LAT. C
9-24-78	1	EXISTING MHC-1-4, UTILITY LINE
DATE	NO.	REVISION

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222 503-636-0220

MR. NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068
636-0220

SANITARY SEWER PLAN AND PROFILE
OCT 29 1979



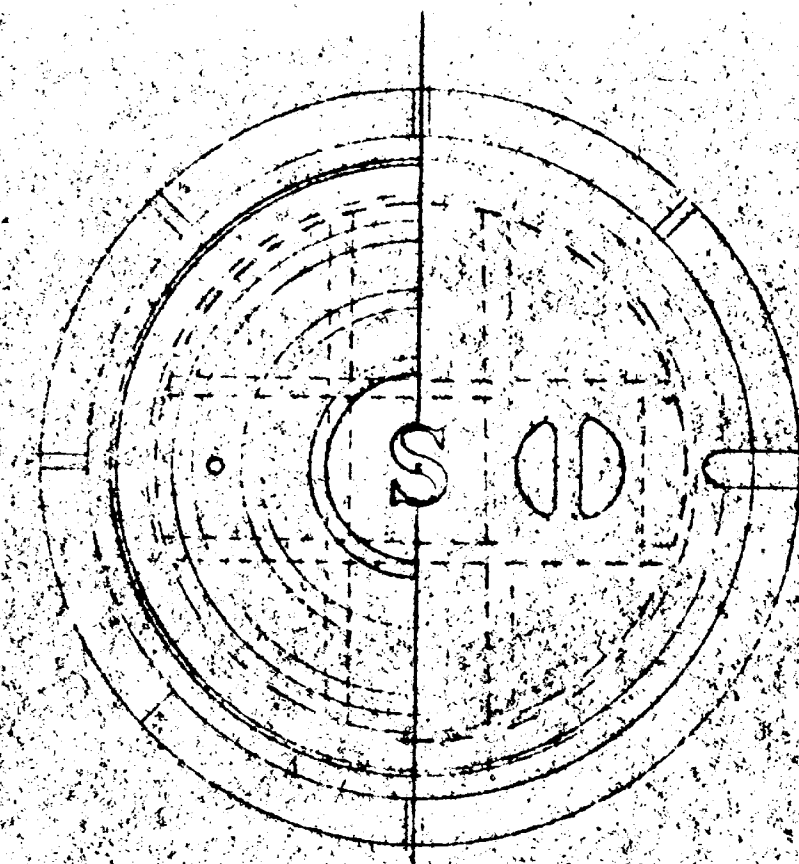
[illegible]

A circular professional engineer seal for the State of Oregon. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "State of Oregon" at the bottom. The center of the seal features the number "7807" above the word "ENGINEER", which is above the word "OREGON". Below "OREGON" is the date "JULY 19, 1973". The seal is stamped over a document that includes the name "John H. ...".

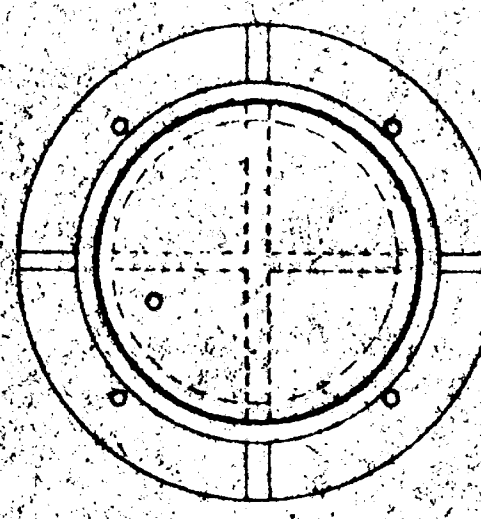
DRAWN: B. MC / GCK
1" = 50' HORIZ
SCALE 1" = 10' VERT DATE 9-22-78
FILE 77-1135-931-II

SANITARY SEWER PROFILES OCT 29 1979

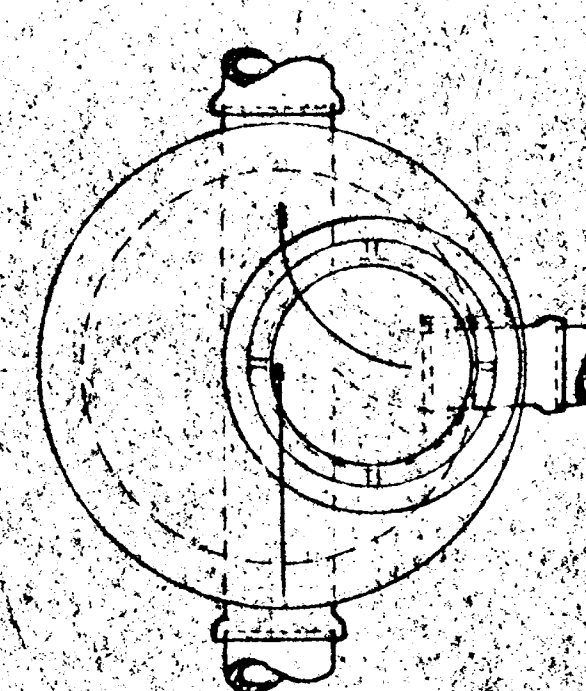
~~69~~



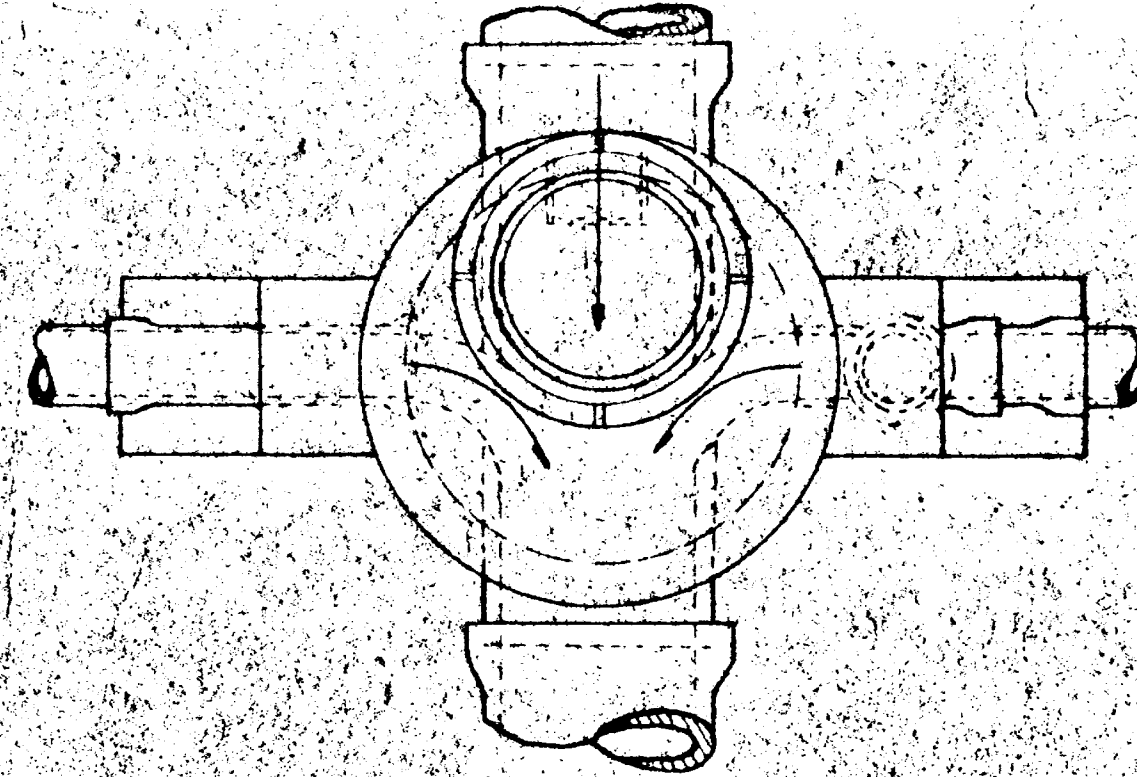
GRAY IRON CASTINGS SHALL
CONFORM TO A.S.T.M. A-48



PLAN

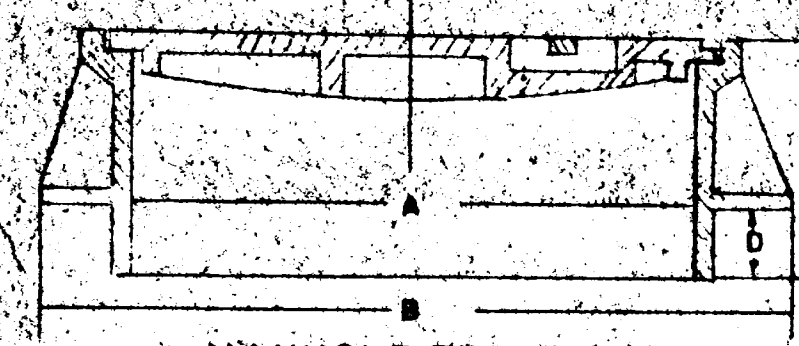


PLAN OF TOP

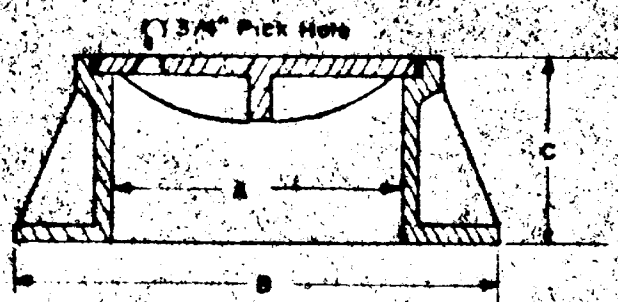


PLAN

STANDARD WATERTIGHT

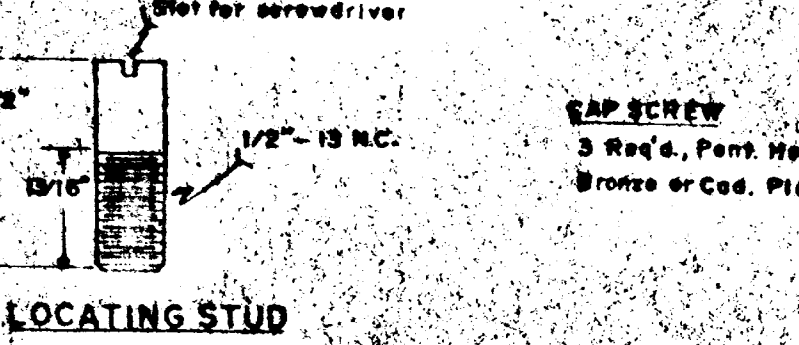


MANHOLE FRAME &
COVER

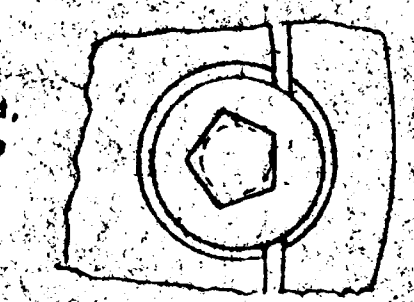


CLEANOUT
FRAME AND COVER

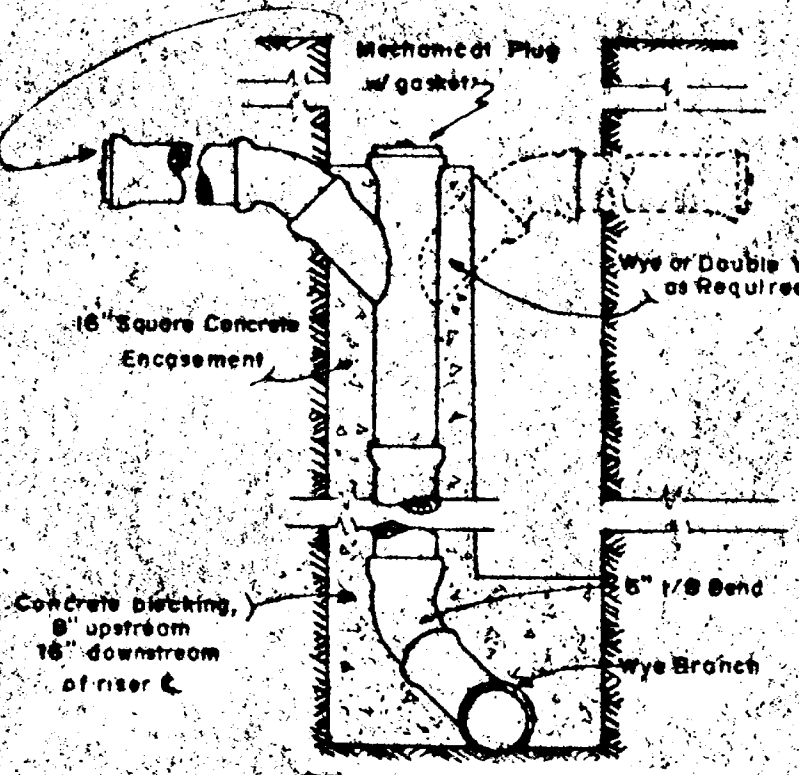
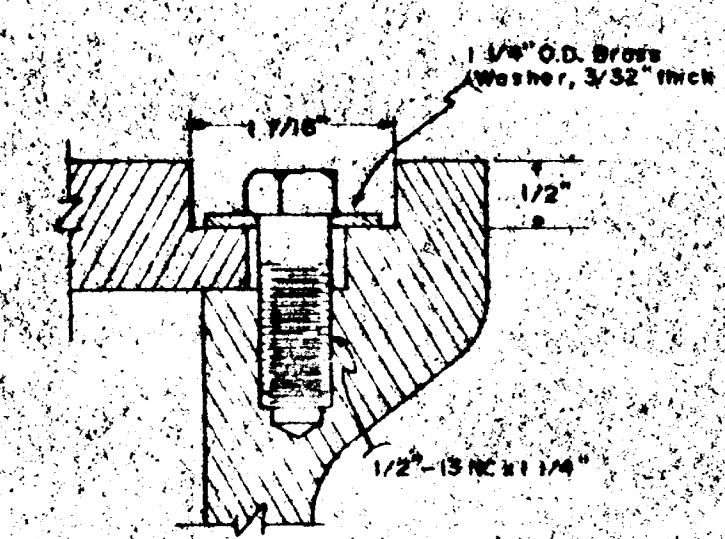
TYPE	DIMENSION IN INCHES				WEIGHT IN LBS.	
	A	B	C	D	FRAME	COVER
MANHOLE	23	31	10	3	240	140
CLEANOUT-8" CSP	12	20	7 3/4	--		
CLEANOUT-6" CSP	9	11 1/2	6 3/4	--		



LOCATING STUD

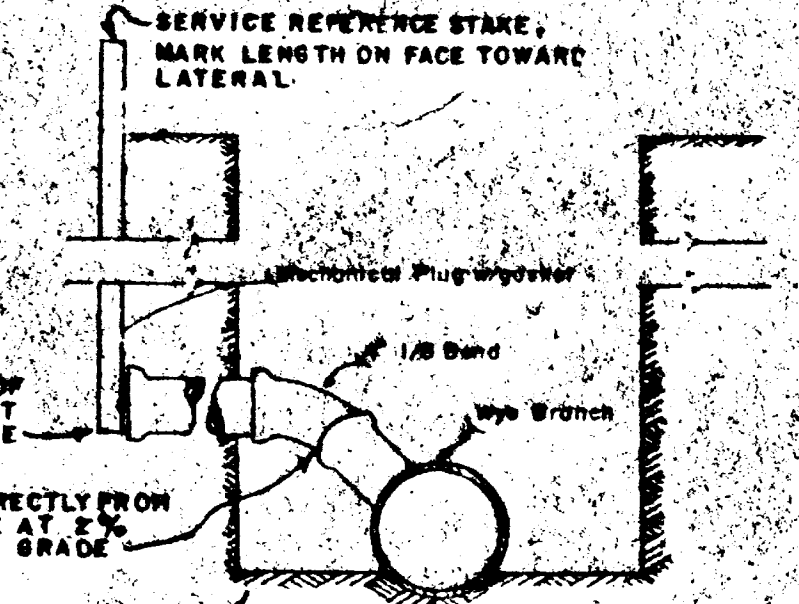


TAMPERPROOFING
FOR
MANHOLE COVERS
NOT TO SCALE



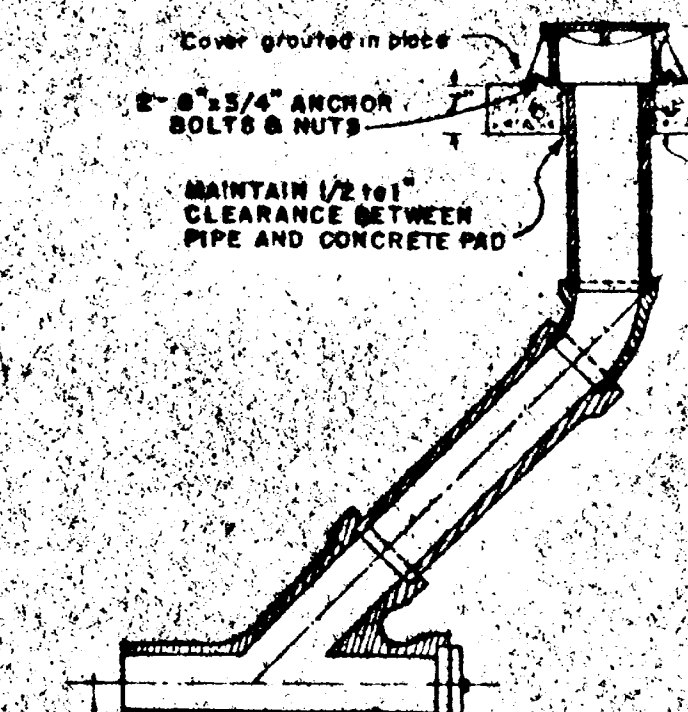
STANDING CONNECTION

BEDDING AS REQUIRED



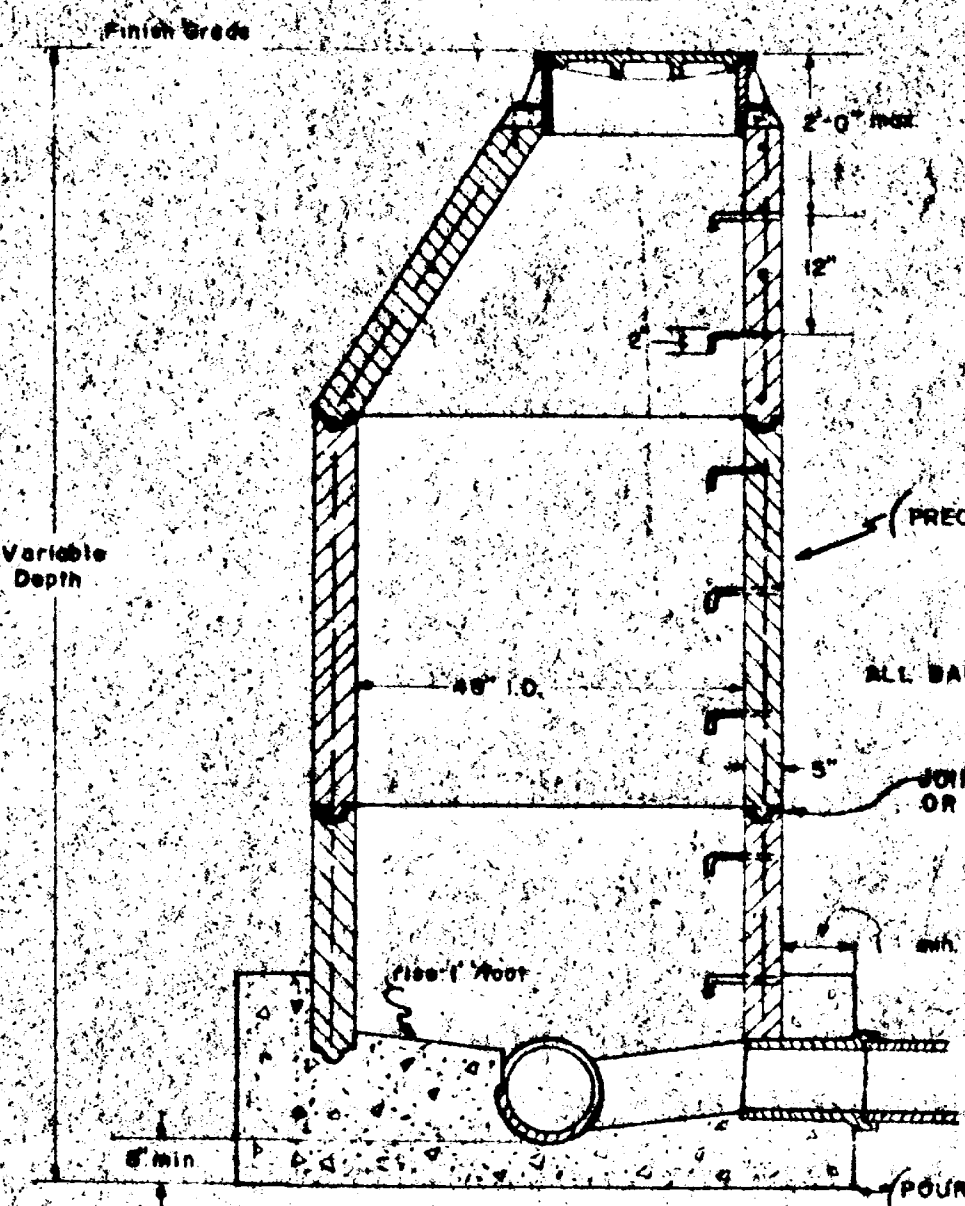
SERVICE CONNECTION

BEDDING AS REQUIRED



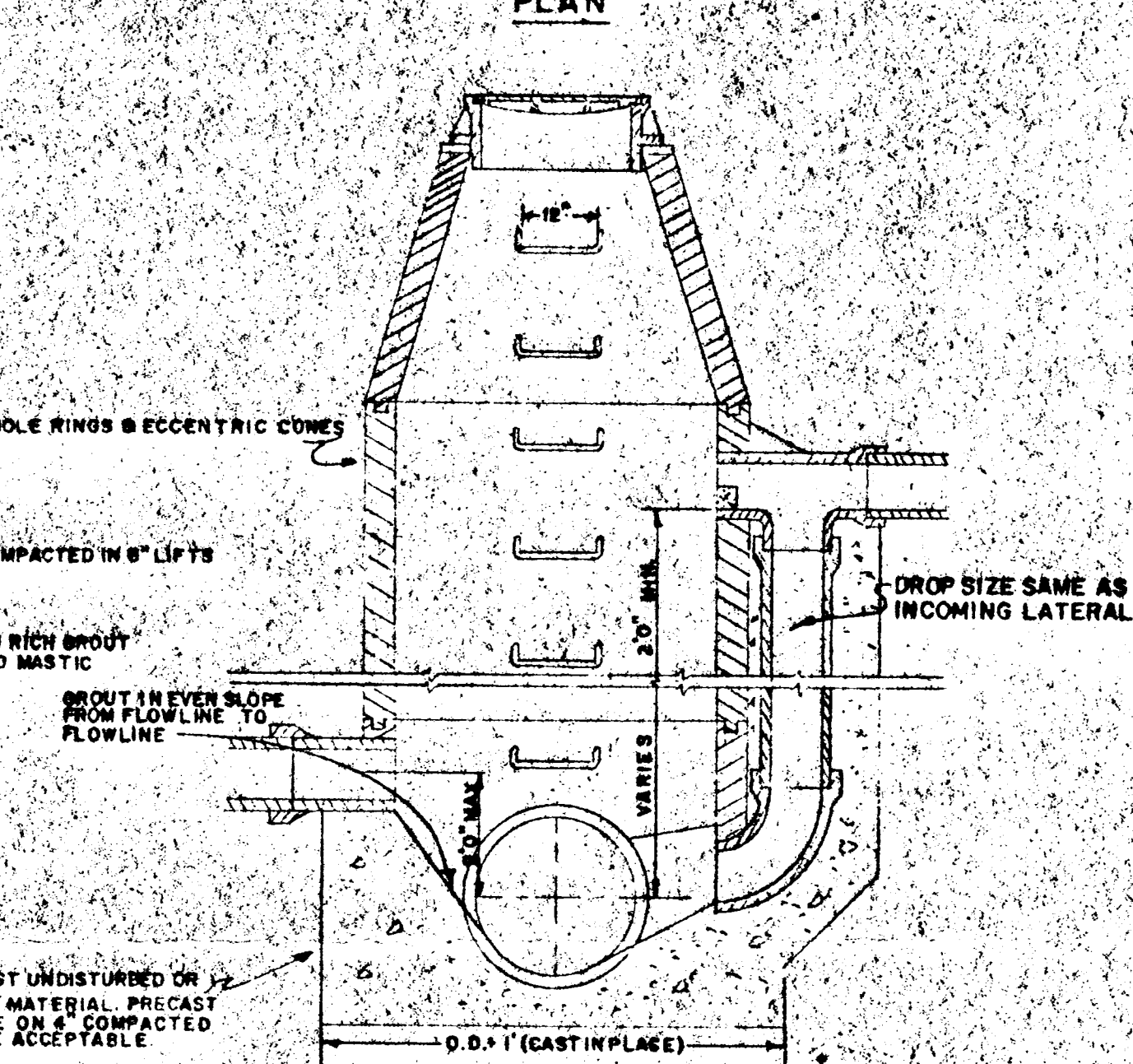
CLEANOUT

CONCRETE TO SPRINGLINE



STANDARD MANHOLE

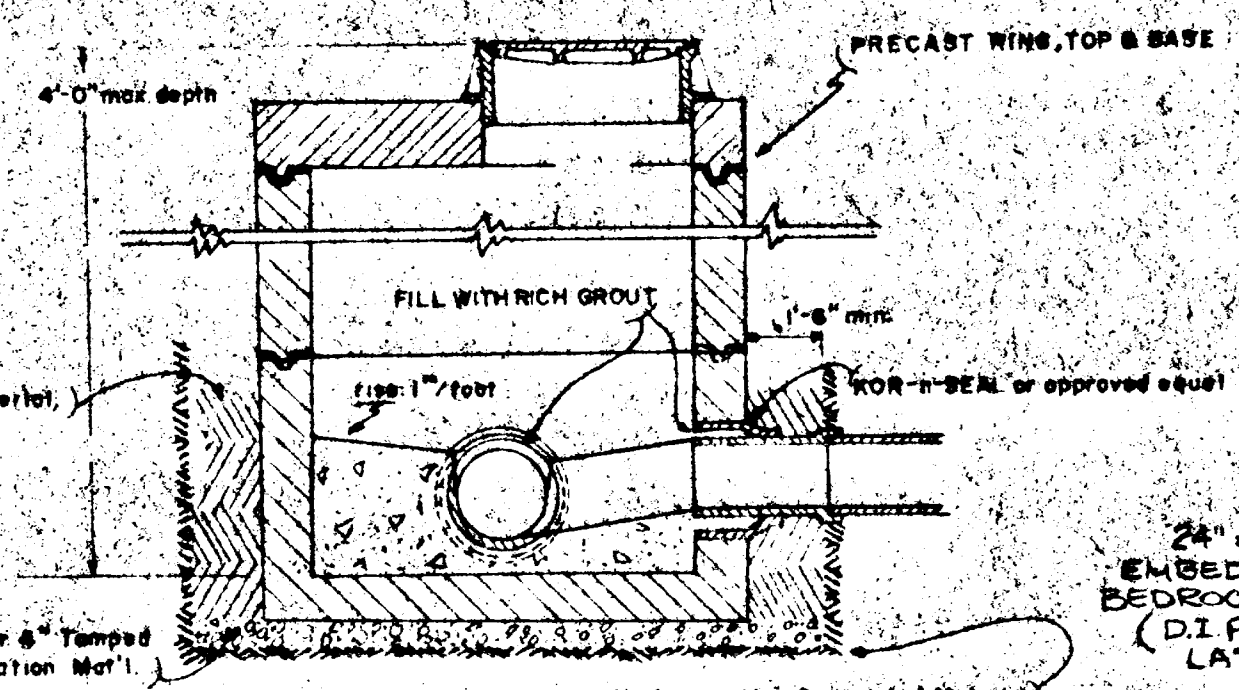
SCALE: 1/2"=1'-0"



DROP MANHOLE

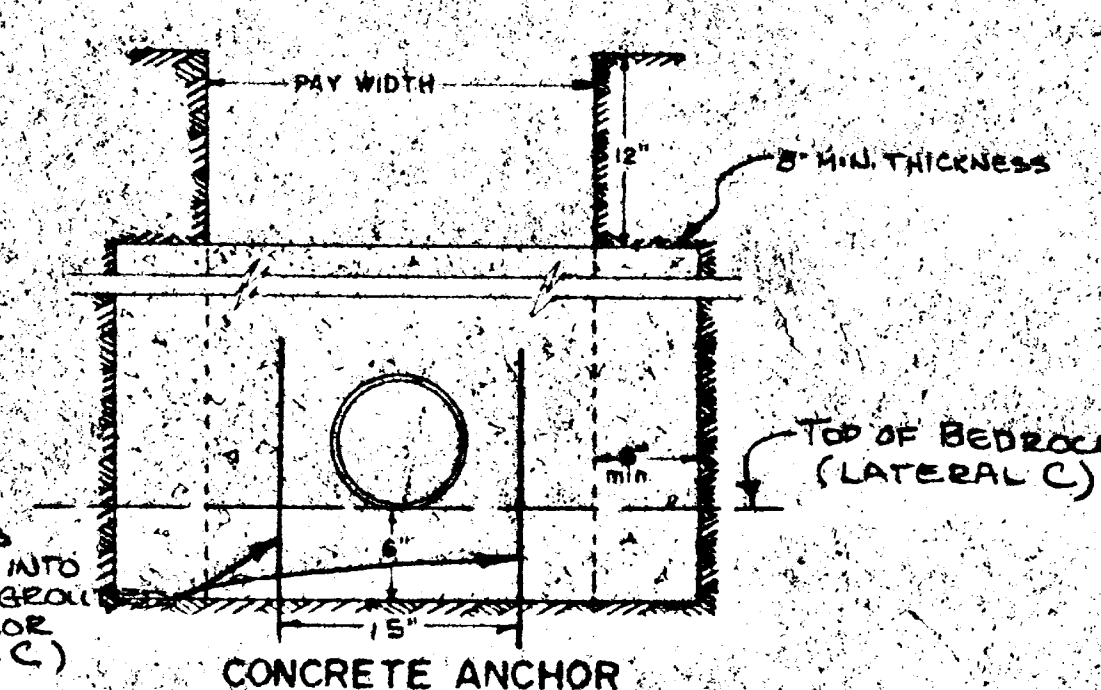
SCALE: 1/2"=1'-0"

PRECAST MATERIAL SHALL CONFORM TO A.S.T.M. C-478



SHALLOW MANHOLE

SCALE: 1/2"=1'-0"



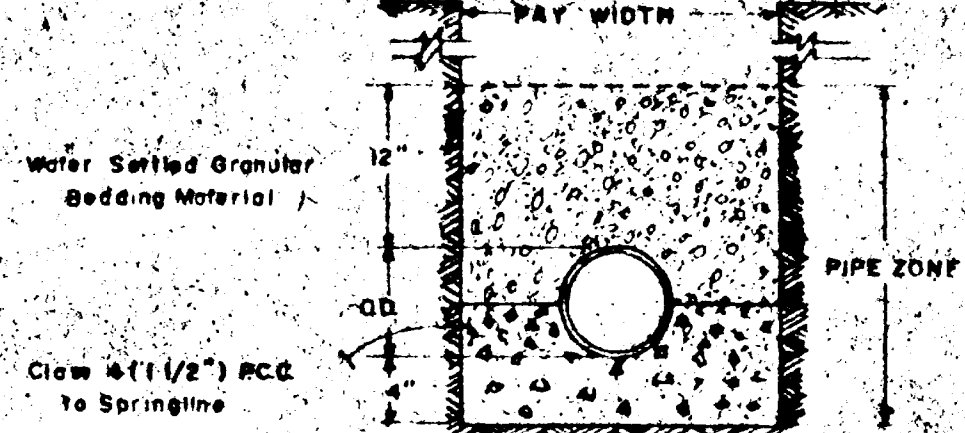
CONCRETE ANCHOR

SCALE: 1"=1'-0"

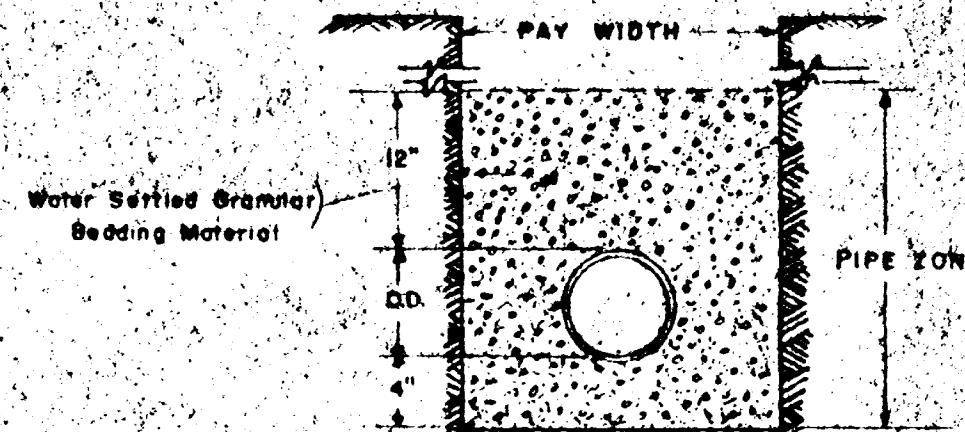
* CONCRETE ANCHOR SPACING	
SLOPE PERCENT	MINIMUM CENTER TO CENTER
20 to 34	35 feet
35 to 50	25 feet
OVER 50	15 feet or CONCRETE ENCASE

* SEE ALSO PROFILE GUIDELINE

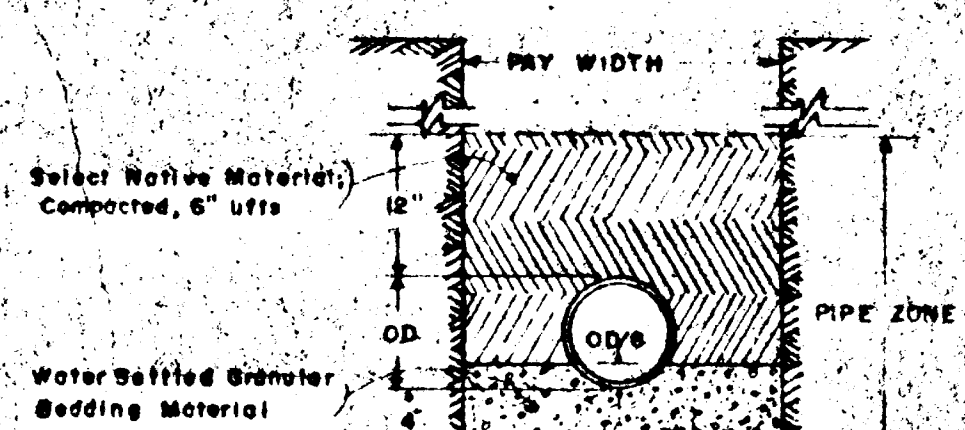
CLASS "A"



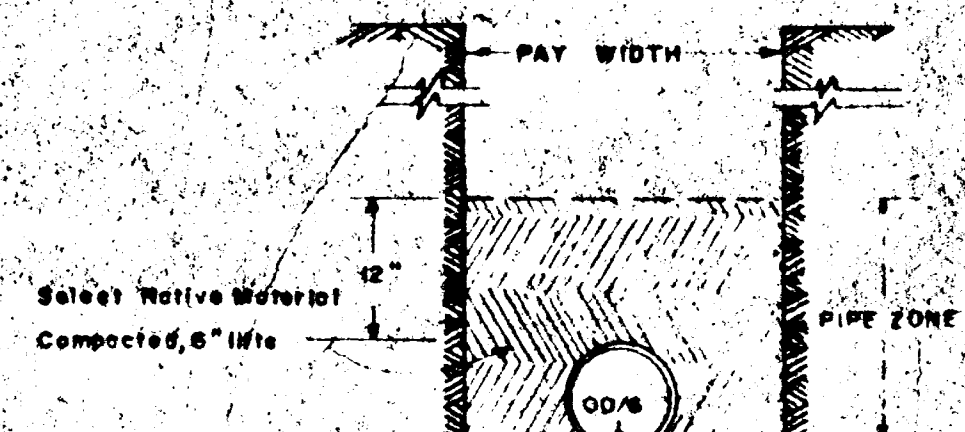
CLASS "B"



CLASS "C"

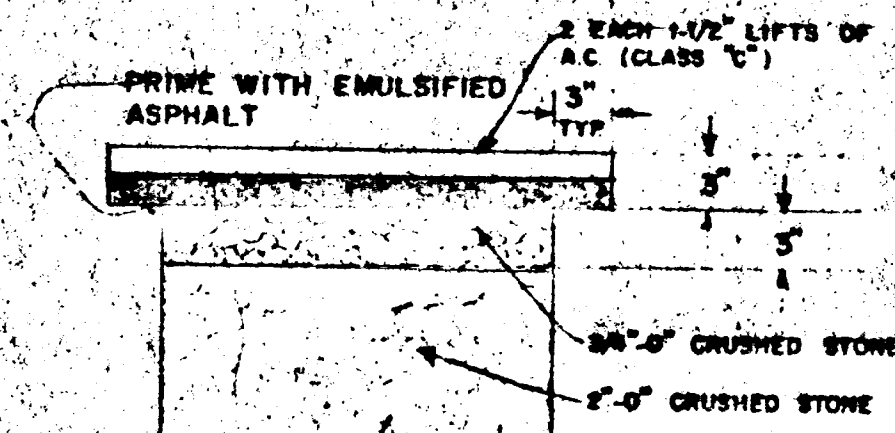


CLASS "D"

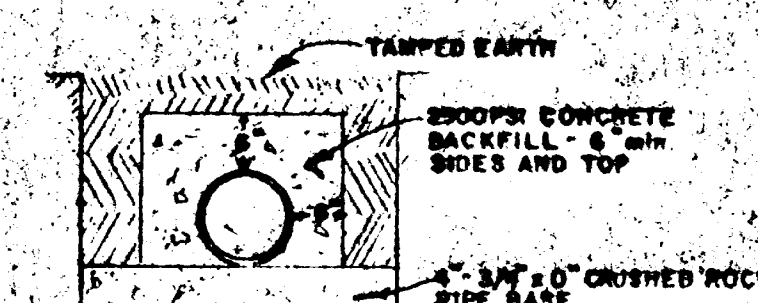


BEDDING REQUIREMENTS

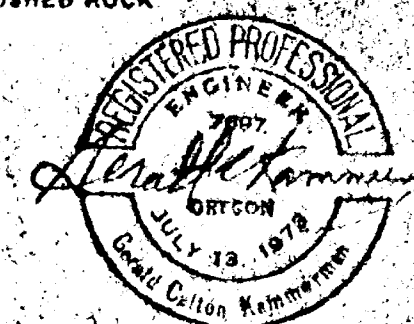
NOT TO SCALE



A.C. PAVEMENT RESTORATION



CREEK CROSSING CONCRETE
BACKFILL DETAIL



HORTON HEIGHTS II
CITY OF WEST LINN, OREGON

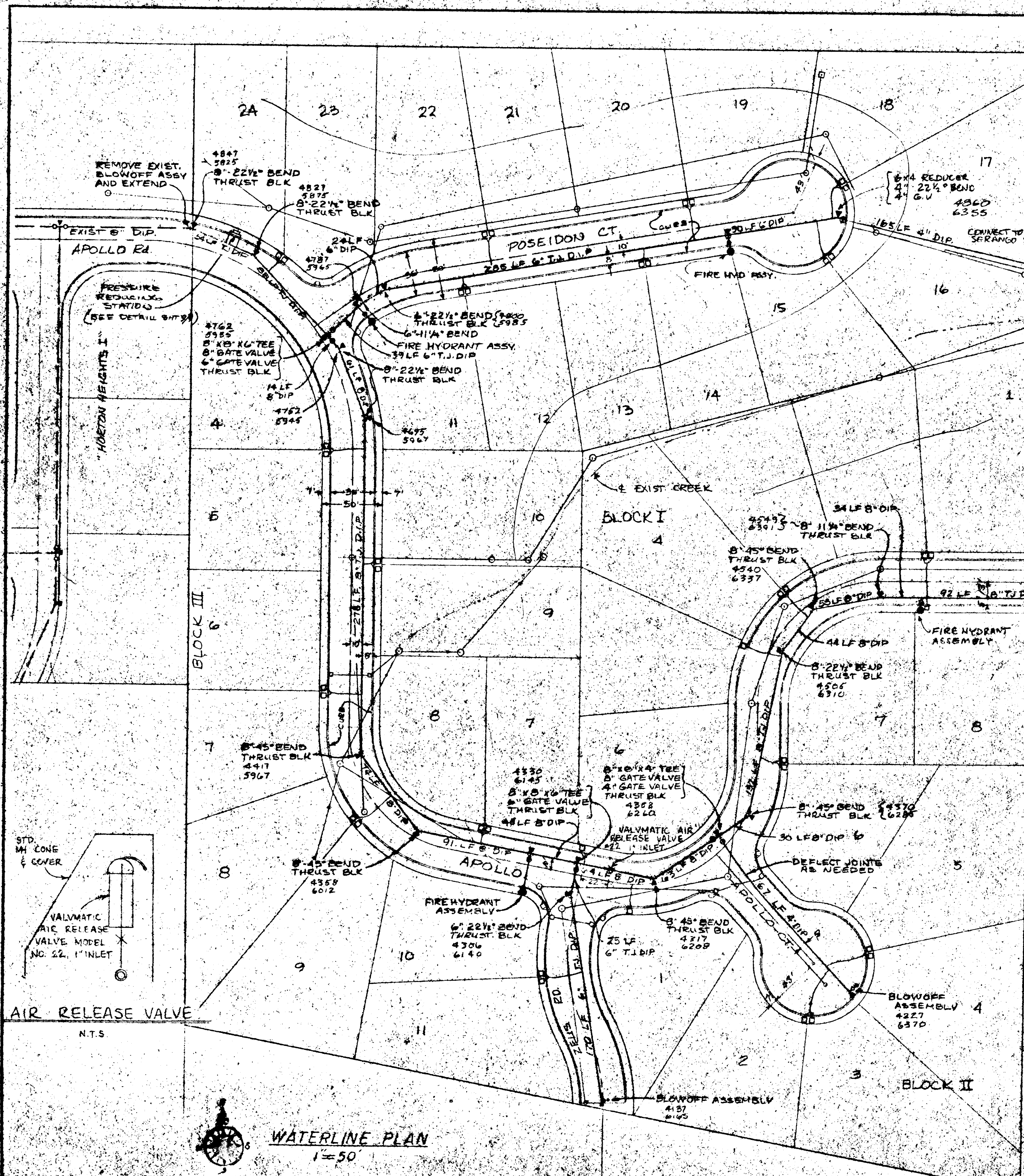
COMPASS CORPORATION

ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

PH. 636-0220

CONSTRUCTION DETAILS OCT 29 1979



9-5-79	7	AS-BUILT
1-5-79	6	APPROV. FOR CONST.
11-15-78	5	SHT. NO. PEN. BTH.
10-10-78	3	PVC TO DIP, DEPTH OF PIPELINE
10-2-78	2	P.R.V. STATION MARKING
9-25-78	1	P.R.V. STATION MARKING
DATE	NO.	REVISION

DATE	NO.	REVISION
9-22-78	1	AS SHOWN
7-11-75	931-II	

COMPASS CORPORATION
 ENGINEERING SURVEYING PLANNING
 6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222 653-9093

NICK FOSSES
 1957 CARRIAGE WAY
 WEST LINN, OREGON 97068 654-7736

HORTON HEIGHTS II
 CITY OF WEST LINN, OREGON

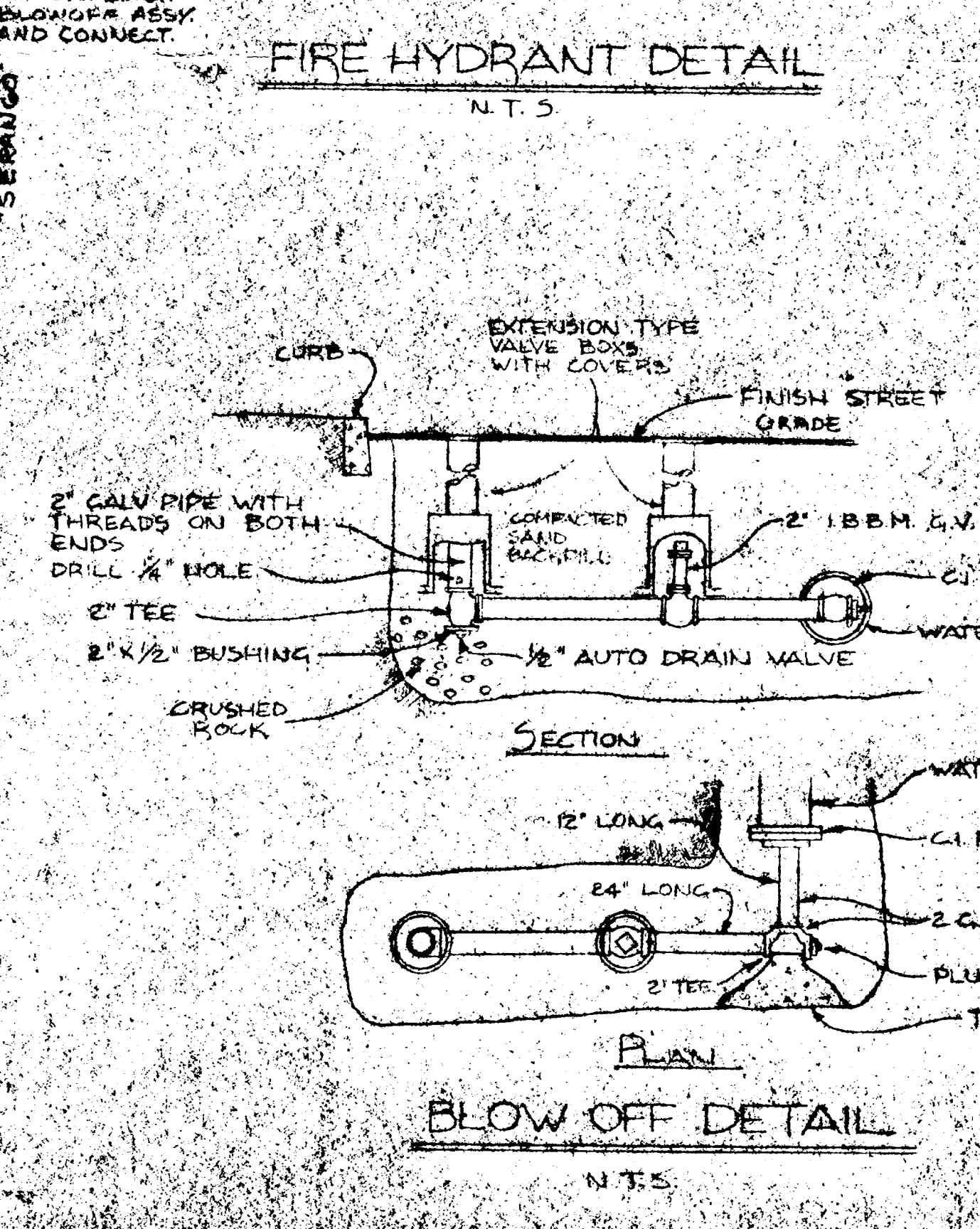
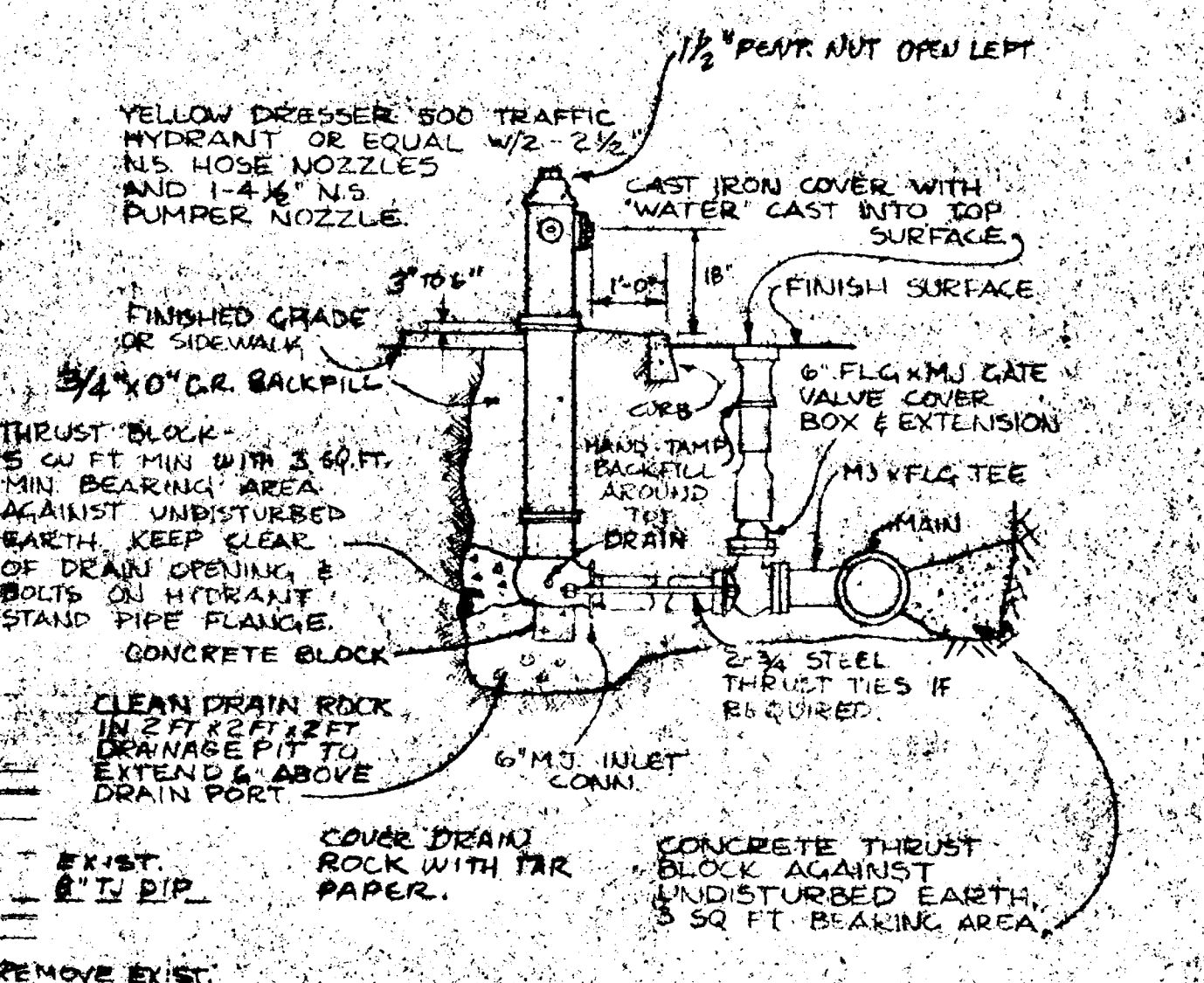
WATERLINE AND SERVICE PLAN OCT 29 1979

TEST PRESSURE TABLE

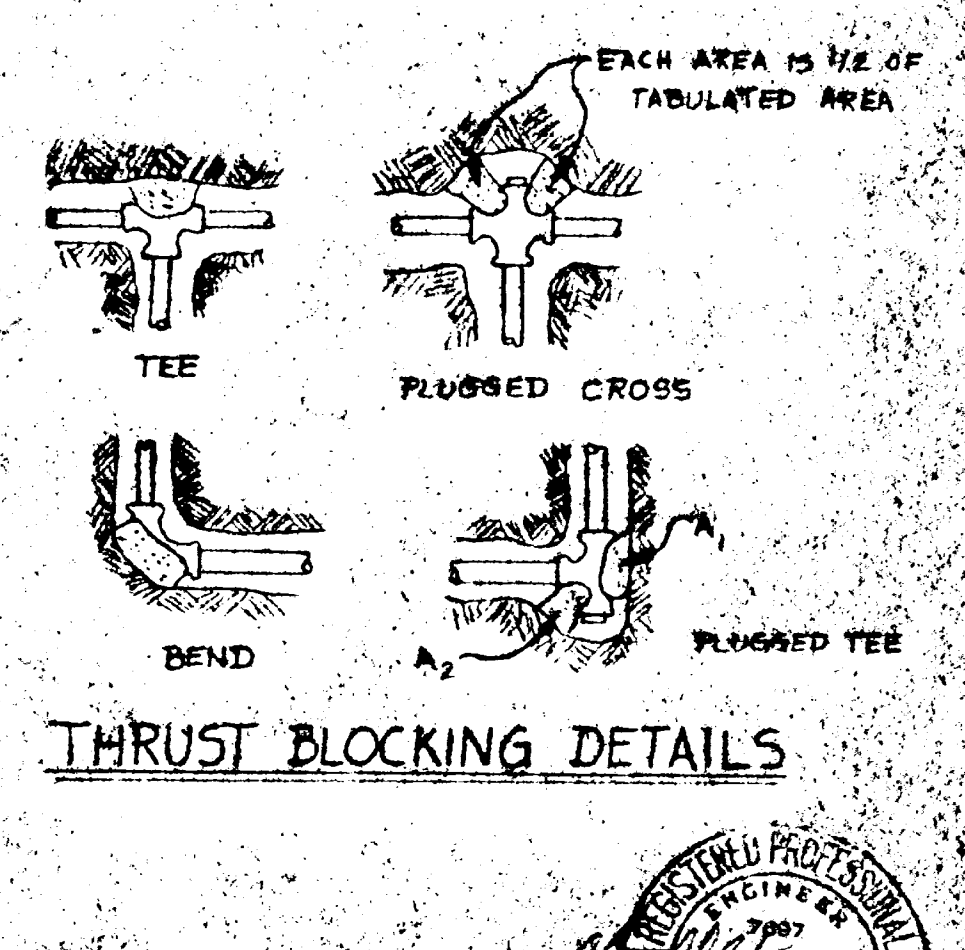
PIPE SIZE	TEE, WYE, PLUG OR CAP	90° BEND	TEE PLUGGED ON RUN	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.0	1.4	1.9	1.4	1.0	-
6	2.1	3.0	4.3	3.0	1.6	1.0
8	3.8	5.3	7.6	5.4	2.9	1.5

1. Concrete thrust blocking to be poured against undisturbed earth.
 2. Keep concrete clear of joint and accessories.
 3. If not shown on plans, required bearing areas at fitting shall be as indicated below, adjusted if necessary, to conform to the test pressure(s) and allowable soil bearing stress(es) determined by inspector.

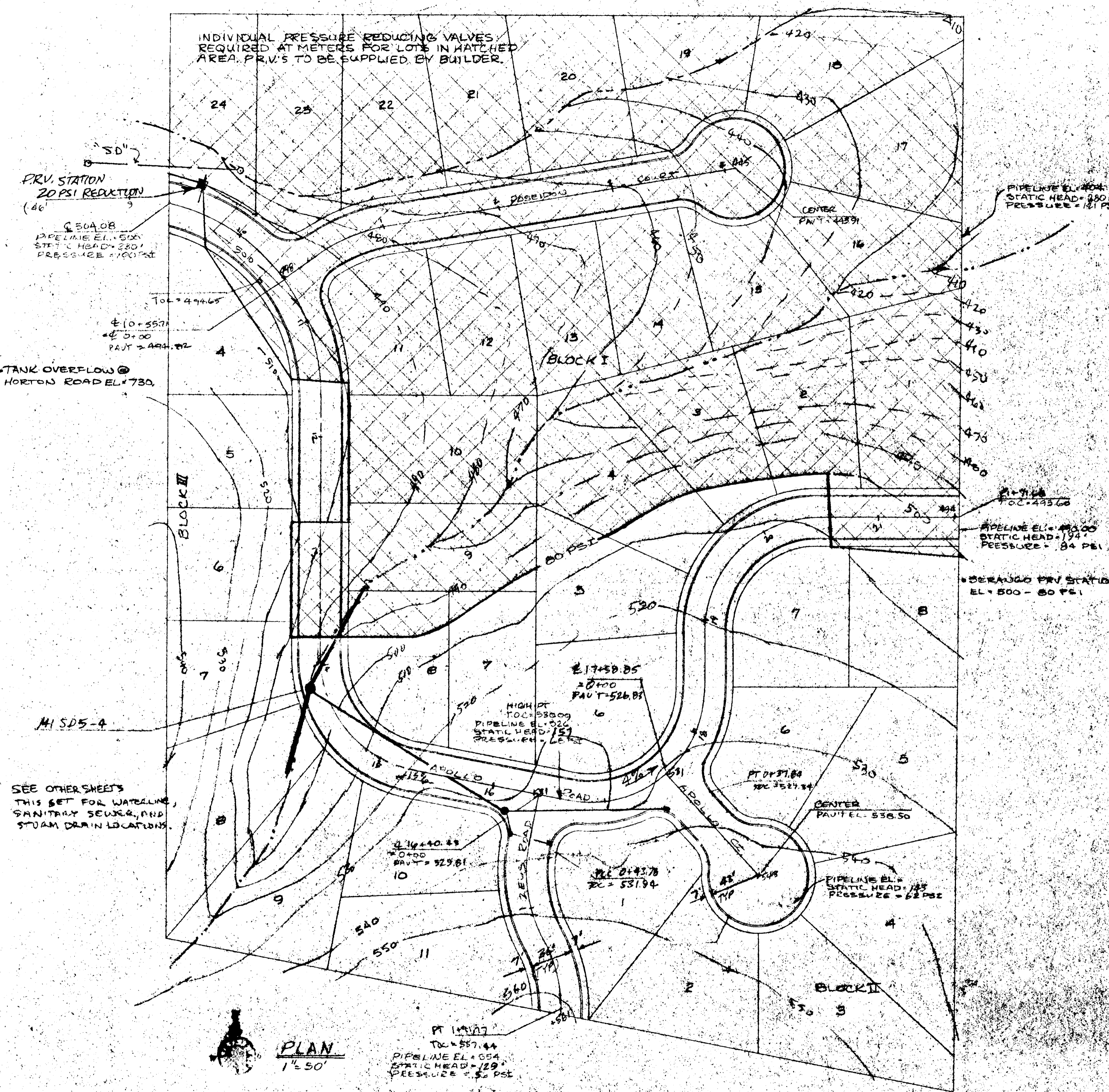
4. Above bearing areas based on test pressure of 150 p.s.i. and an allowable soil bearing stress of 2,000 points per square foot. To compute bearing areas for different test pressures and soil bearing stresses, use the following equation: $Bearing\ Area = (test\ pressure / 150) \times (2000 / soil\ bearing\ stress) \times (table\ value)$



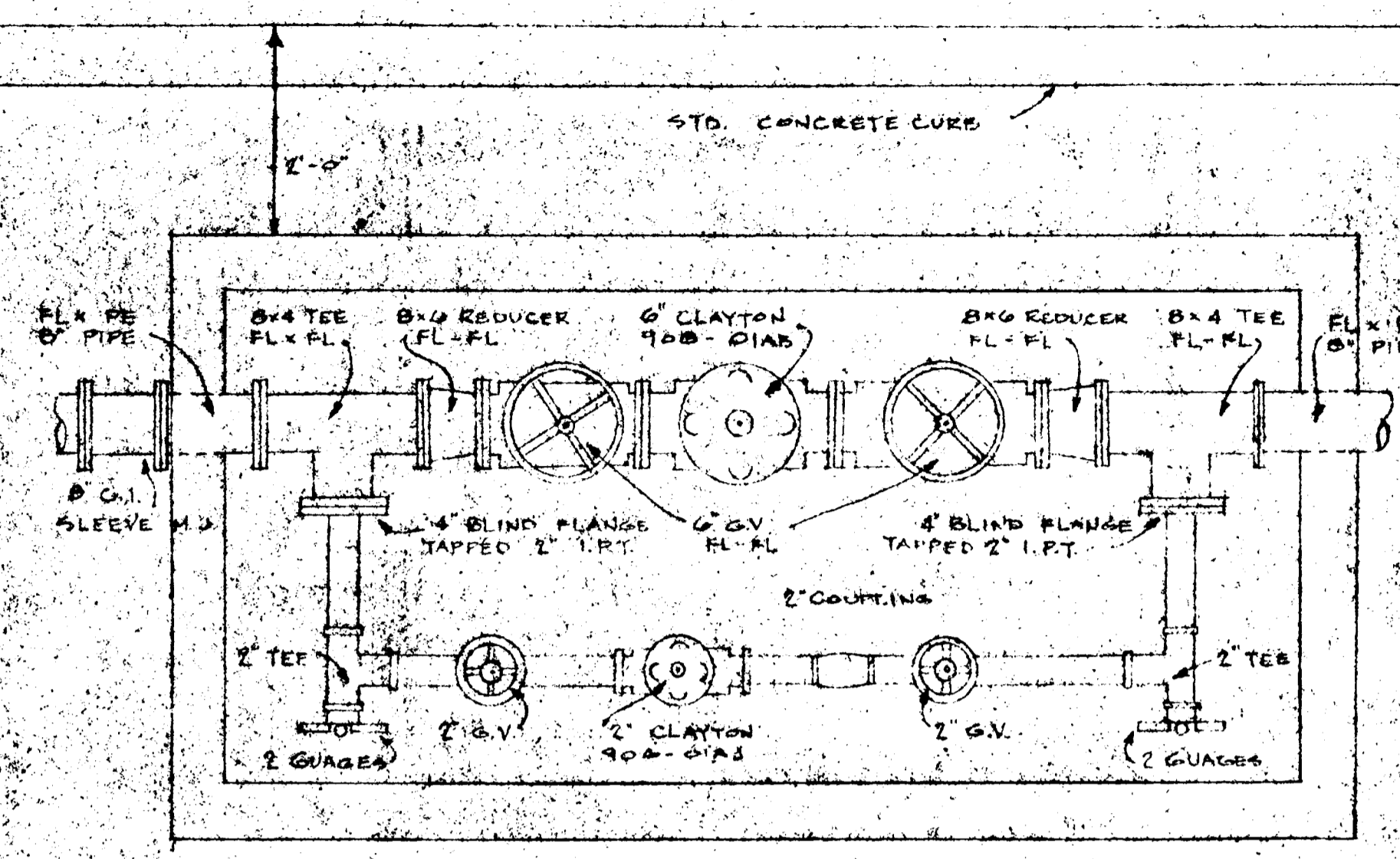
- WATER LINE CONSTRUCTION NOTES:**
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL CONSTRUCT THE WATERMAIN TO AVOID CONFLICT WITH EXISTING UTILITIES.
 - CONTRACTOR TO OBTAIN ALL PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
 - ALL WORK AND MATERIALS TO CONFORM WITH THE CITY OF WEST LINN, THE LATEST EDITION OF OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, A.W.W.A. AND A.P.W.A. STANDARDS.
 - ALL PIPE TO BE MINIMUM COVER OF 36 INCHES BELOW FUTURE STREET GRADES. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT PIPE INTERIORS, FITTINGS, AND VALVES AGAINST CONTAMINATION.
 - FIRE HYDRANTS TO BE DRY-BARREL AND COMPLY WITH A.W.W.A. C502.
 - SERVICES TO HAVE COMPRESSION TYPE FITTINGS.
 - INDIVIDUAL PRESSURE REDUCING VALVES ARE REQUIRED FOR EACH HOUSE SERVICE WHERE STATIC PRESSURE IS 60 P.S.I. OR GREATER.
 - HOUSE SERVICES TO BE COPPER TYPE "T" SEAMLESS SOFT ANNEALED.
 - SINGLE SERVICES TO BE 3/4 INCH.
 - DOUBLE SERVICES TO BE 1 INCH.
 - COPPER TUBE BENDS TO BE SMOOTH RADIUS.
 - METER BOXES TO BE NO. 1 METER BOX AS MANUFACTURED BY METER BOX EQUIPMENT COMPANY, TIGARD, OREGON.
 - SERVICE TAPS TO BE AT LEAST 18 INCHES APART. SAIDLES REQUIRED.
 - CONTRACTOR TO INSTALL PIPELINE AND HOUSE SERVICES TO, AND INCLUDING, CURB STOPS AND METER BOXES. HOUSE BUILDER TO INSTALL P.R.V.'S AND METALS.
 - GATE VALVES TO BE A.W.W.A. C 500.
 - VALVES TO HAVE 2 INCH OPERATING NUT WITH COUNTER CLOCKWISE OPENING AND MOUNTING STEM.
 - DUCTILE IRON PIPE TO BE FITTED JOINT CEMENT MORTAR LINED CLASS 54 AND SHALL CONFORM TO ASTM C 110, C150 AND C151.
 - DUCTILE CAST IRON WATER MAINS AND APPURTENANCES TO BE INSTALLED IN ACCORDANCE WITH A.W.W.A. STANDARD C 600.
 - FITTINGS AND PIPE SECTIONS THAT WILL NOT BE DISINFECTED BY CHLORINE LINE FOR 24 HOURS SHALL HAVE THE INTERIORS SWABBED WITH A 6 PERCENT HYPOCHLORITE SOLUTION BEFORE THEY ARE INSTALLED.
 - PIPE BEDDING SHALL BE CLASS B AS SHOWN ON CONSTRUCTION DETAILS DRAWING.
 - CONCRETE THRUST BLOCKS TO BE CONSTRUCTED AT ALL TEES, BENDS, FIRE HYDRANTS, ELBOWS AND WHERE INDICATED ON PLANS. THE MINIMUM BEARING SURFACE AGAINST UNDISTURBED SOIL TO BE AS SHOWN ON PLANS. CONCRETE SHALL BE ALLOWED TO CURE BEFORE PIPELINE PRESSURE TESTING.
 - PIPELINE TO BE TESTED AT 150 P.S.I. AND HELD AT THAT PRESSURE FOR 2 HOURS. PIPE LINE TO BE THOROUGHLY DISINFECTED AND FLUSHED IN ACCORDANCE WITH A.W.W.A. STANDARD C 601.
 - TRENCH BACKFILL AND COMPACTION: DRIVEWAYS AND STREETS—BACKFILL ABOVE PIPE ZONE SHALL BE 1 1/2-INCH MINUS. MATERIALS SHALL BE PLACED IN 6-INCH LIFTS AND COMPACTION TO 95 PERCENT RELATIVE DENSITY. OTHER AREAS—BACKFILL ABOVE PIPE ZONE SHALL BE NATIVE MATERIAL FREE OF ORGANIC MATTER OR ROCKS GREATER THAN 3 INCHES IN SIZE. COMPACTION SHALL BE SUCH AS REQUIRED TO ELIMINATE FUTURE SETTLEMENT.
 - INDIVIDUAL PRESSURE REDUCING VALVES WILL BE REQUIRED FOR LOTS 1-5, AND 9-24 BLOCK I. SEE SHEET 9/9. VALVES TO BE SUPPLIED BY HOME BUILDER.



INDIVIDUAL PRESSURE REDUCING VALVES REQUIRED AT METERS FOR LOTS IN HATCHED AREA. PRV'S TO BE SUPPLIED BY BUILDER.

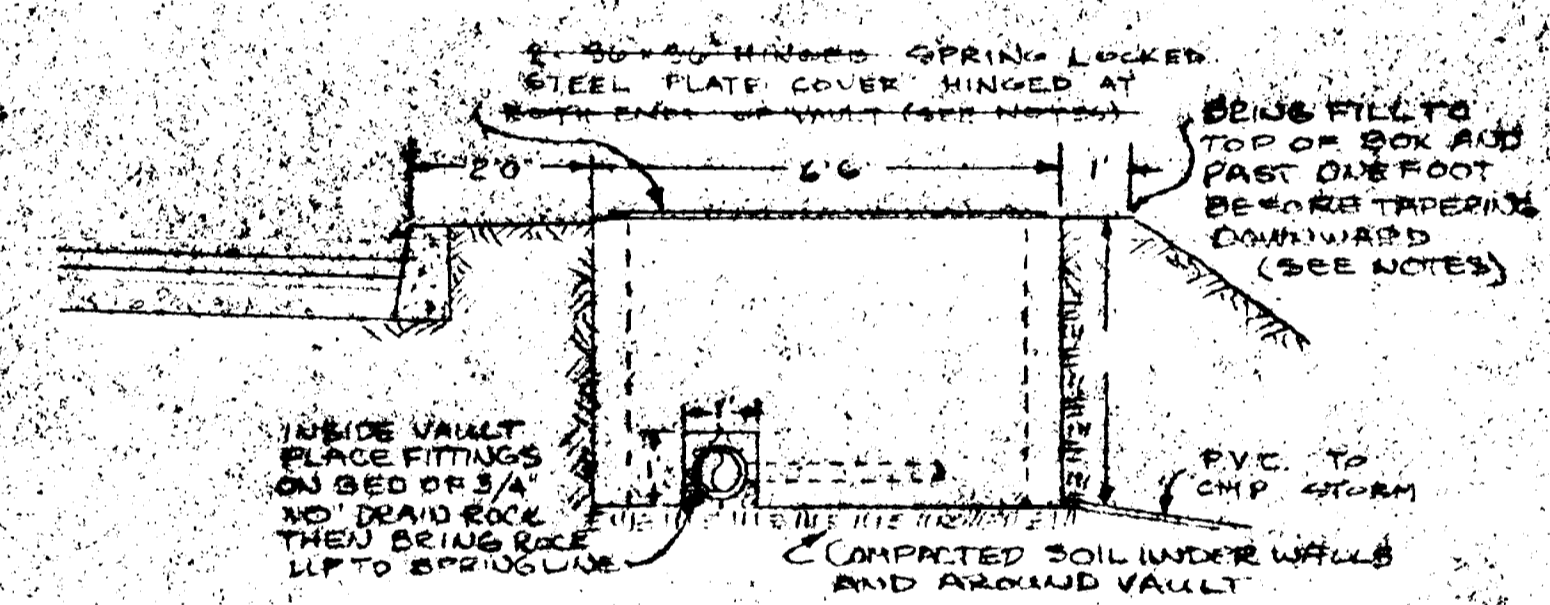


- NOTES
- CONTRACTOR SHALL EMERGENCY VAULT STYLE 675-WA-44-3322 BY UTILITY VAULT CO. OF WILSONVILLE, OREGON.
 - 2 HINGED AND SPRING LOCKED STEEL PLATE COVERS HINGED AT BOTH ENDS OF VAULT TO BE EQUIVALENT TO COVERS PROVIDED BY UTILITY VAULT CO. OF WILSONVILLE, ORE.
 - TOP OF VAULT TO BE ADJUSTED TO FUTURE SIDEWALK ELEVATION.



PRESSURE REDUCING ASSEMBLY
N.T.S.

- NOTES
- ALL 2\"/>



VAULT END ELEVATION

10-26-79	5	PRESSURE RED. STA. 15.00
10-19-79	4	AS CONSTRUCTED
1-5-79	3	APPROV. FOR CONST.
11-13-78	2	TITLE, DETAILS, BUT NO PRESS.
10-20-78	1	WATERLINE PRELIMINARY
DATE	NO.	REVISION

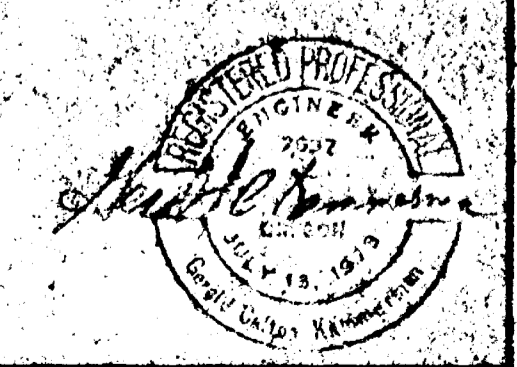
PLAN
1"=50'

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

MR. NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

636-0220

HORTON HEIGHTS II
CITY OF WEST LINN, OREGON



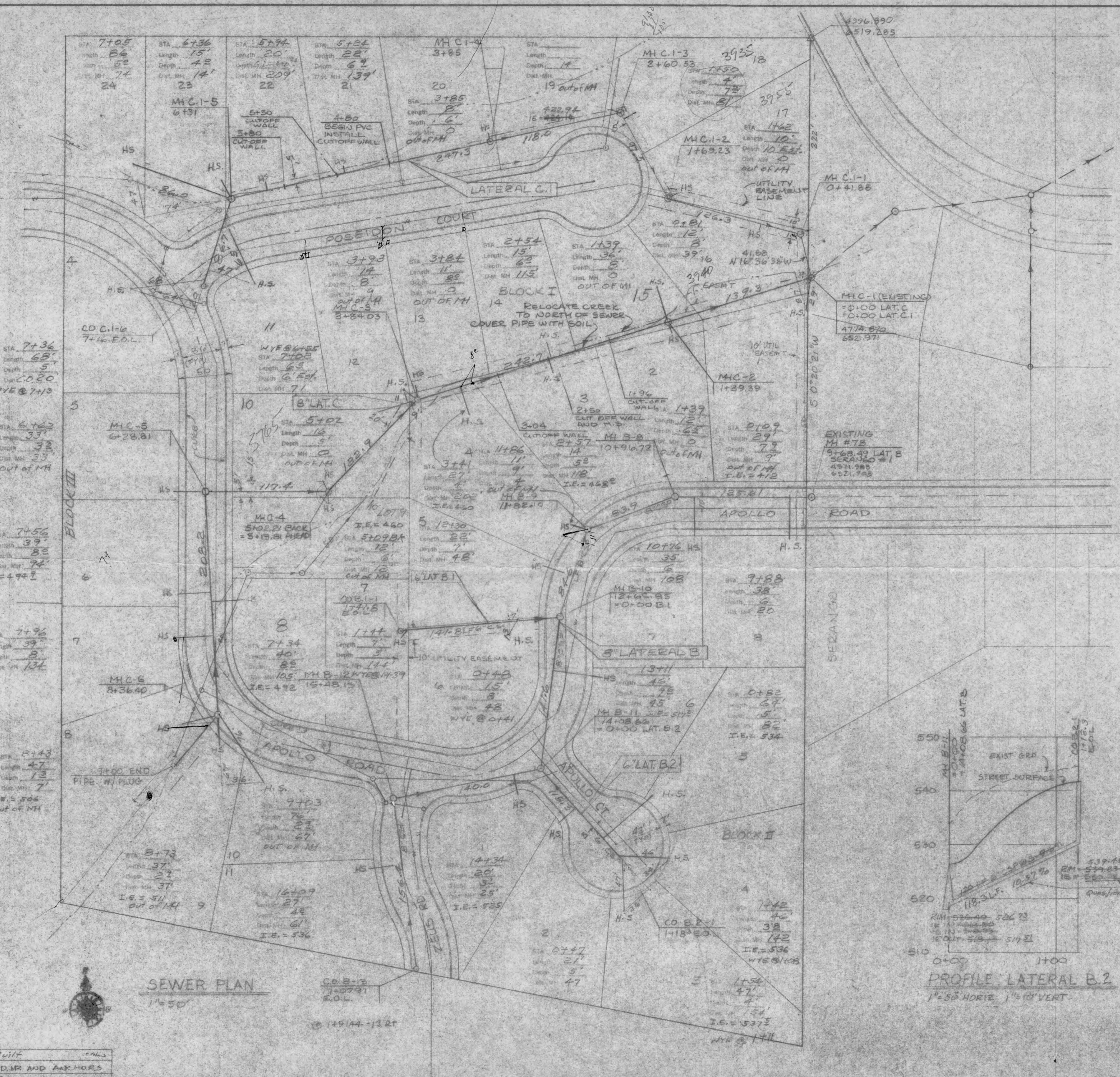
WATERLINE DETAILS AND PRECONSTRUCTION
SITE CONTOURS

OCT 29 1979

Second Scan

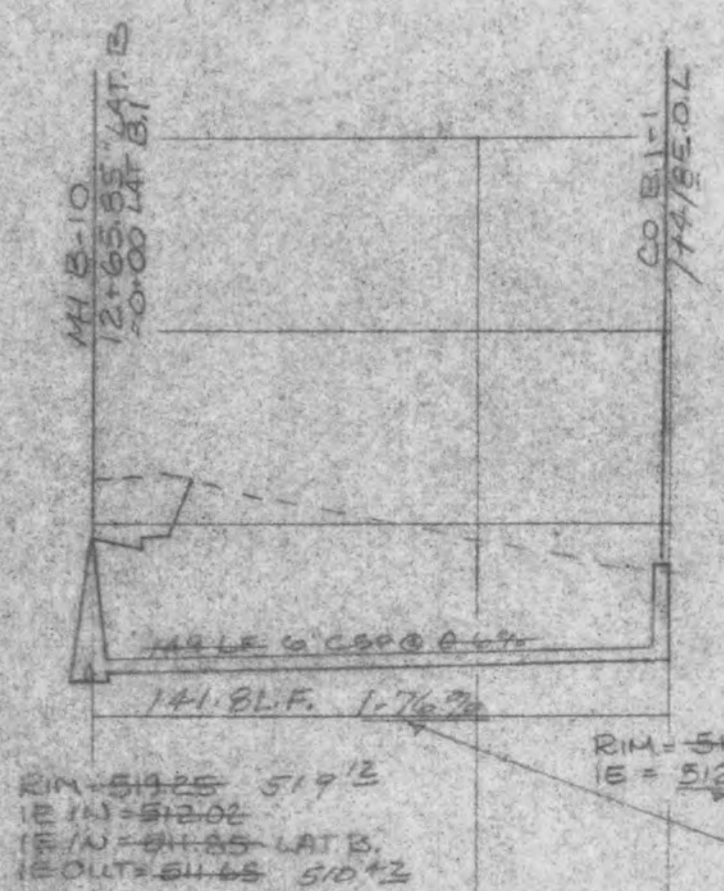
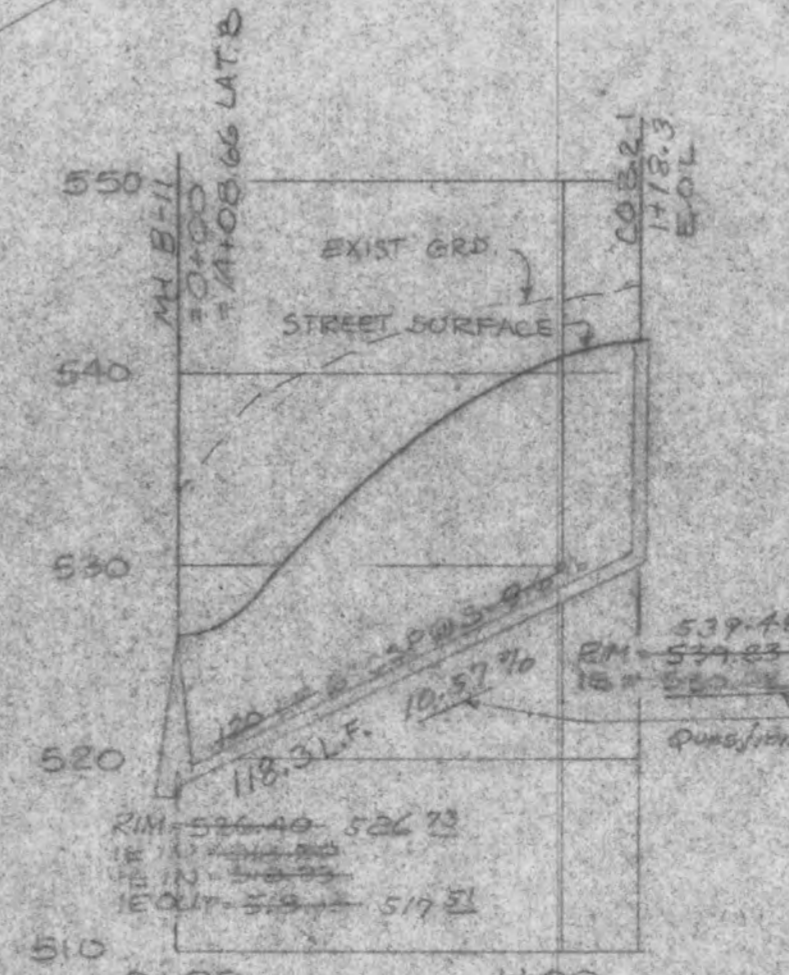
This As-Built was scanned twice due to illegibility issues of the original scan.

"HORTON HEIGHTS II"
"PROPOSED PIKE'S PLACE"



- SANITARY SEWER CONSTRUCTION NOTES:**
- CONSTRUCTION SHALL COMPLY WITH THE CITY WEST LINN AND A.P.W.A. SPECIFICATIONS FOR CONSTRUCTION OF SANITARY SEWERS.
 - CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
 - CONCRETE SANITARY SEWER PIPE SHALL BE ASTM C 12, CLASS 2 NON-REINFORCED CONCRETE PIPE WITH RUBBER GASKETS.
 - CONTRACTOR TO LOCATE ALL UTILITIES BEFORE STARTING CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
 - EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
 - ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
 - BUILDING SERVICE CONNECTIONS TO BE 1-INCH SEWER PIPE AND SHALL EXTEND TO DISTANCE SHOWN ON PLANS AND END AT ELEVATION SHOWN.
 - SERVICE CONNECTION TO SLOPE 2% MINIMUM UP TO FUTURE HOUSE LOCATION FROM SEWER LATERAL OR MAIN.
 - WYES AND 1/8TH BENDS REQUIRED FOR SERVICE CONNECTION.
 - STATIONING AND DISTANCE SHOWN ON PLAN AND PROFILE ARE HORIZONTAL AND NOT SLOPE DISTANCE.
 - PIPE BEDDING SHALL BE CLASS B AS INDICATED ON CONSTRUCTION DETAILS SHEET.
 - TRENCHES WITHIN THE RIGHTS-OF-WAY SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
 - COMPACTION SHALL BE SUFFICIENT TO PREVENT FUTURE SETTLEMENT. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE REQUIRED COMPACTION. SUBSEQUENT SETTLEMENT OF THE FINISHED SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
 - TRENCHES OUTSIDE OF RIGHTS-OF-WAY MAY BE BACKFILLED WITH EXCAVATED TRENCH MATERIALS. CONTRACTOR SHALL MOUND SOIL OVER TRENCH TO COMPENSATE FOR NORMAL SETTLEMENT.
 - CONTRACTOR SHALL PREPARE A PRINT OF THE ENGINEER SHOWING AS-CONSTRUCTED DATA: STATION OF WYE ALONG SEWER, LENGTH OF CONNECTION AND DEPTH OF SERVICE CONNECTION AT PROPERTY LINE OR END OF SERVICE AND ANY CHANGES MADE DURING CONSTRUCTION.
 - INSPECTOR WILL BE ON PROJECT AS DEEMED NECESSARY BY ENGINEER. IF INSPECTOR IS NOT PRESENT, CONTRACTOR SHALL CALL FOR INSPECTION PRIOR TO BACKFILLING TRENCH AND TO WITNESS PIPELINE TESTING.
 - MANHOLE C-4 OR C-5 MAY POSSIBLY BE ELIMINATED - DEPENDING ON FIELD CONDITIONS FOUND DURING CONSTRUCTION.
 - PVC SEWER PIPE SHALL BE ASTM 3034 - SDR 35, SERVICE SADDLES TO BE GASKETED WITH TWO STAINLESS STEEL STRAPS AND RING-TIE BELL OUTLET. WYE FITTING MAY BE SUBSTITUTED FOR SADDLE.
 - FOR CUT-OFF WALL DETAILS USE CONCRETE ANCHOR WALL DETAIL ON SHEET 7/3

AS-BUILT MEASUREMENTS PROVIDED BY LEANT CONSTRUCTION, INC.



SEWER PLAN
1"=50'

PROFILE LATERAL B.2
1"=50' HORIZ. 1"=10' VERT.

PROFILE LATERAL B.1
1"=50' HORIZ. 1"=10' VERT.

9-8-79	7	AS-BUILT
4-5-79	6	LAT. C D.I.P. AND ANCHORS
12-3-78	5	COB2 LEM
11-9-78	4	APPROVED FOR CONST.
11-8-78	3	PVC SEWERS, ALTERNATE, CUT-OFFS
10-17-78	2	ECL 1.1A LAT C
7-28-78	1	CALENDAR, MAP, AND UTILITY LINE
DATE	NO.	REVISION

DRAWN B.M.
SCALE AS NOTED
DATE 9-22-78
77-1135-931-II

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222 653-7093

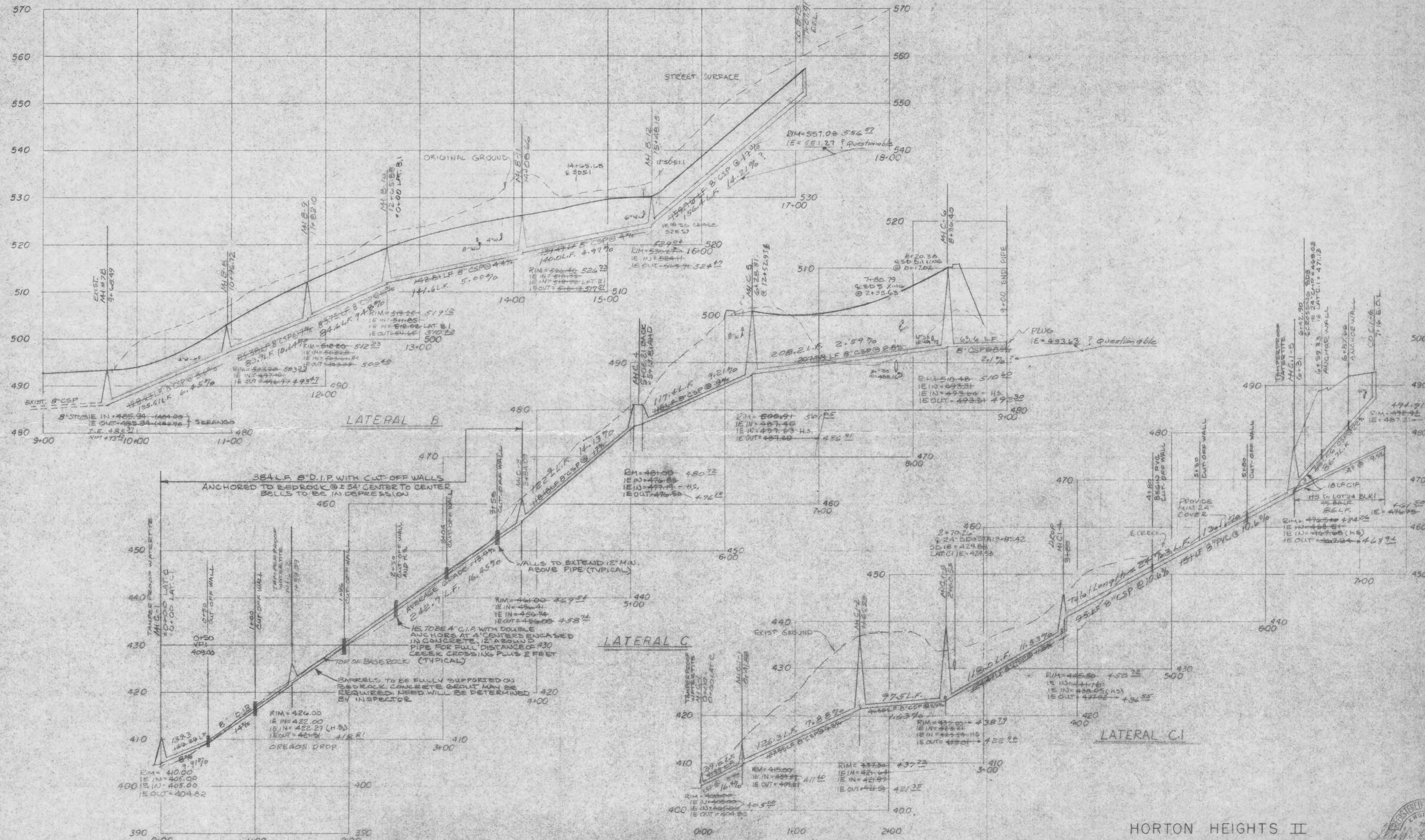
MR. NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

SANITARY SEWER PLAN AND PROFILE

OCT 29 1979



AS-BUILT MEASUREMENTS
PROVIDED BY CERAY CONSTRUCTION, INC.



8-31-79	8	As-Built Lengths & Grades (CND)
6-12-79	7	APPROVED GRADE, INVERT, C.S.P.
4-3-79	6	LAT. C, D.I.P., ANCHORS
11-2-78	5	LATE DROP - BROWNE & S.
1-9-78	4	APPROVED FOR CONVT.
11-8-78	3	PVC, CUT-OFF WALL
10-17-78	2	E.O.L. 9+00 LATERAL C
9-25-78	1	BRIDGE



COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD, P.O. BOX 2093, MILWAUKIE, OREGON 97222

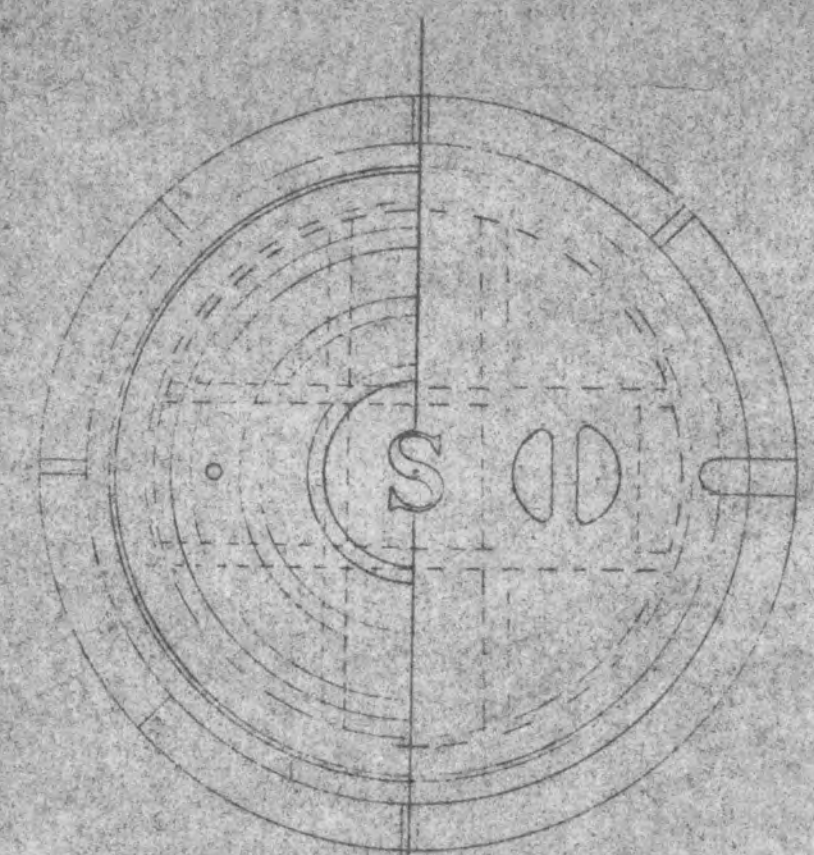
NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

PH. 636-0220

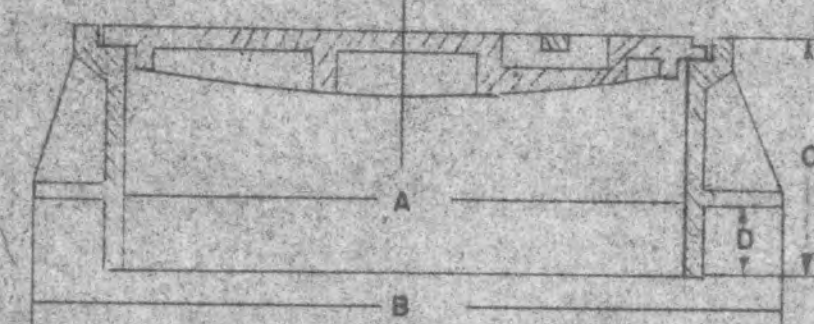
HORTON HEIGHTS II
CITY OF WEST LINN, OREGON

SANITARY SEWER PROFILES OCT 29 1979

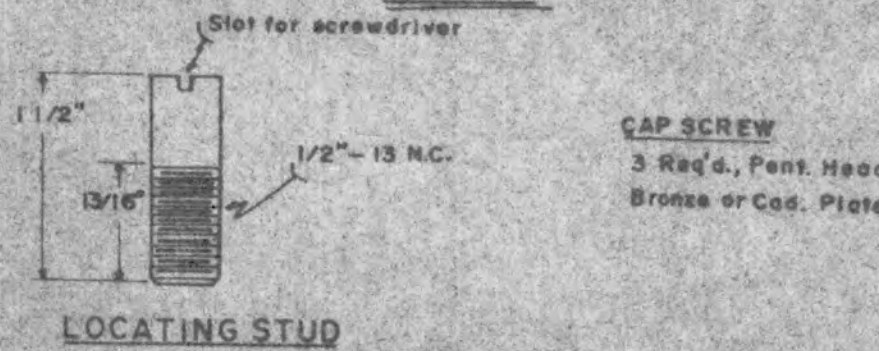




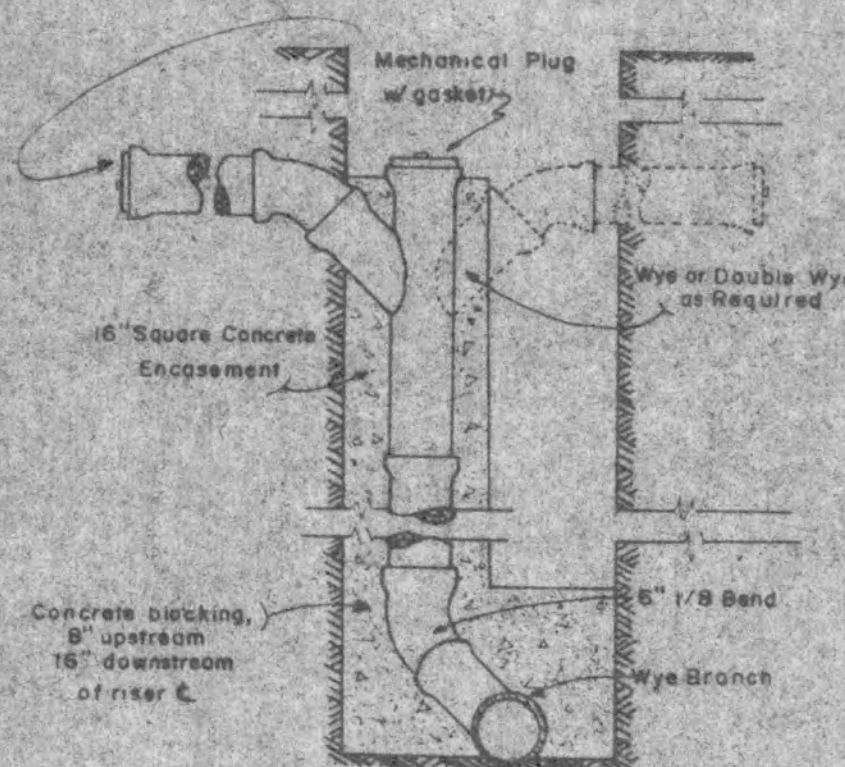
STANDARD WATER TIGHT



MANHOLE FRAME & COVER

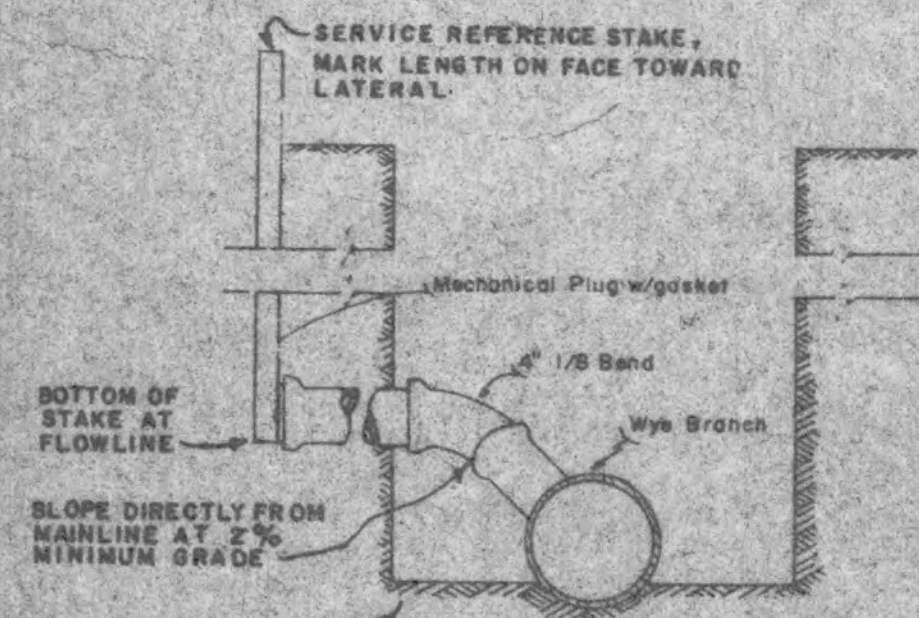


LOCATING STUD



STANDING CONNECTION

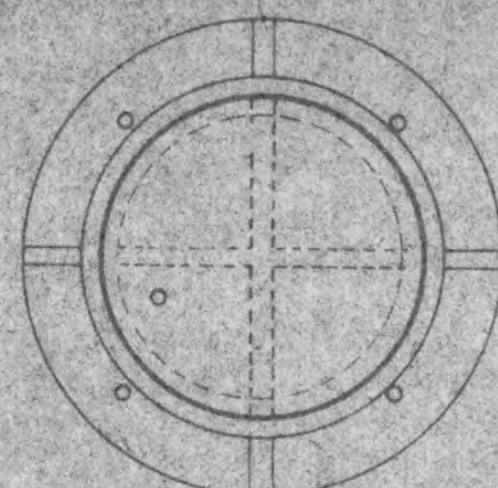
BEDDING AS REQUIRED



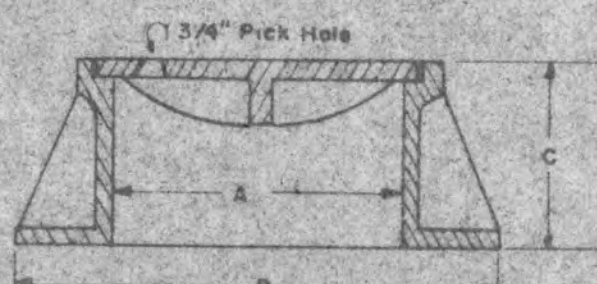
SERVICE CONNECTION

BEDDING AS REQUIRED

GRAY IRON CASTINGS SHALL CONFORM TO A.S.T.M. A-48

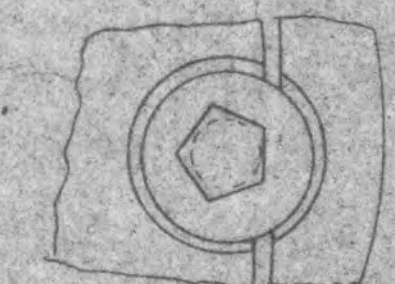


PLAN



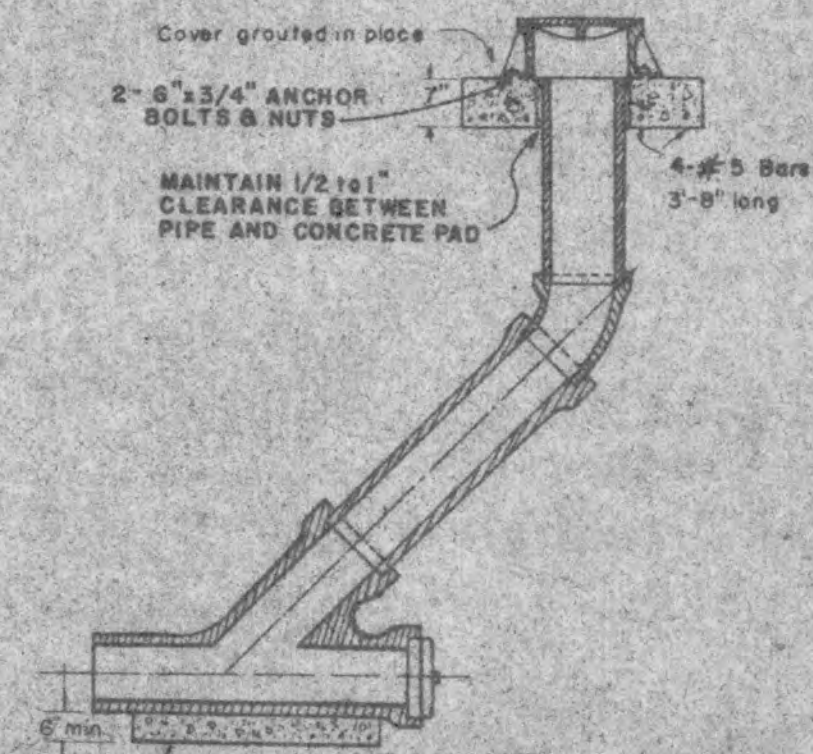
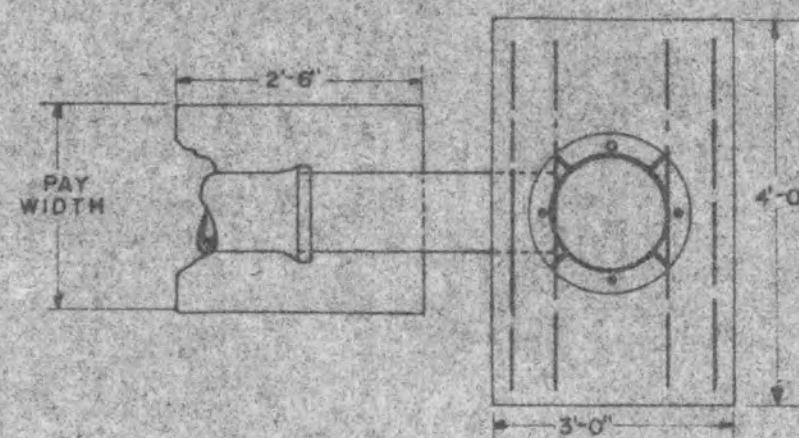
CLEANOUT FRAME AND COVER

TYPE	DIMENSION IN INCHES				WEIGHT IN LBS.	
	A	B	C	D	FRAME	COVER
MANHOLE	23	31	10	3	240	140
CLEANOUT-8" CSP	12	20	7 3/4	--	--	--
CLEANOUT-6" CSP	9	11 1/2	6 3/4	--	--	--



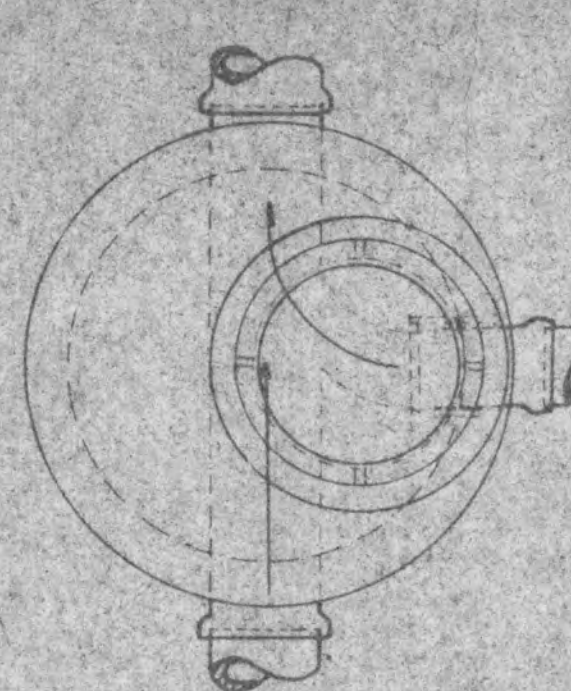
TAMPERPROOFING FOR MANHOLE COVERS

NOT TO SCALE

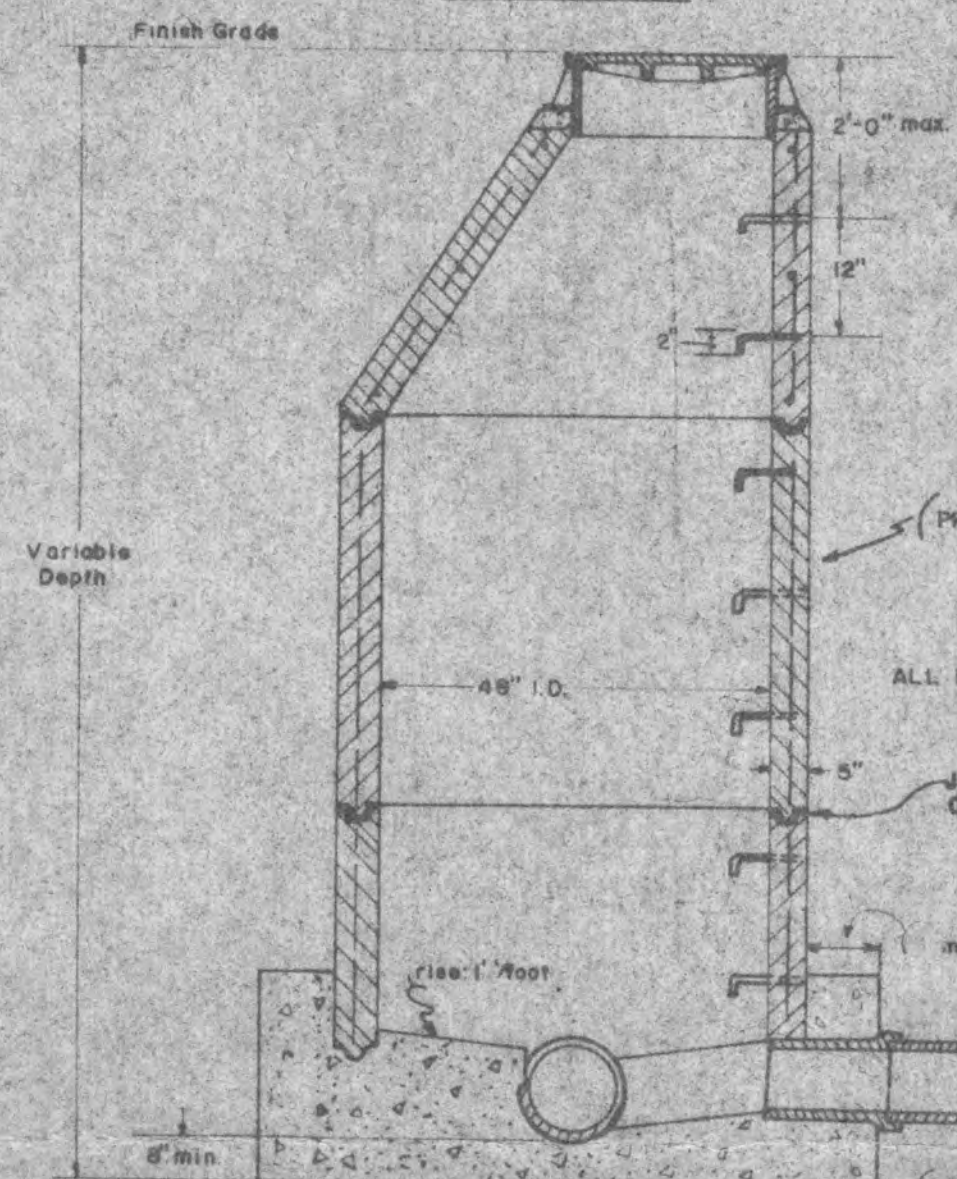


CLEANOUT

CONCRETE TO SPRINGLINE

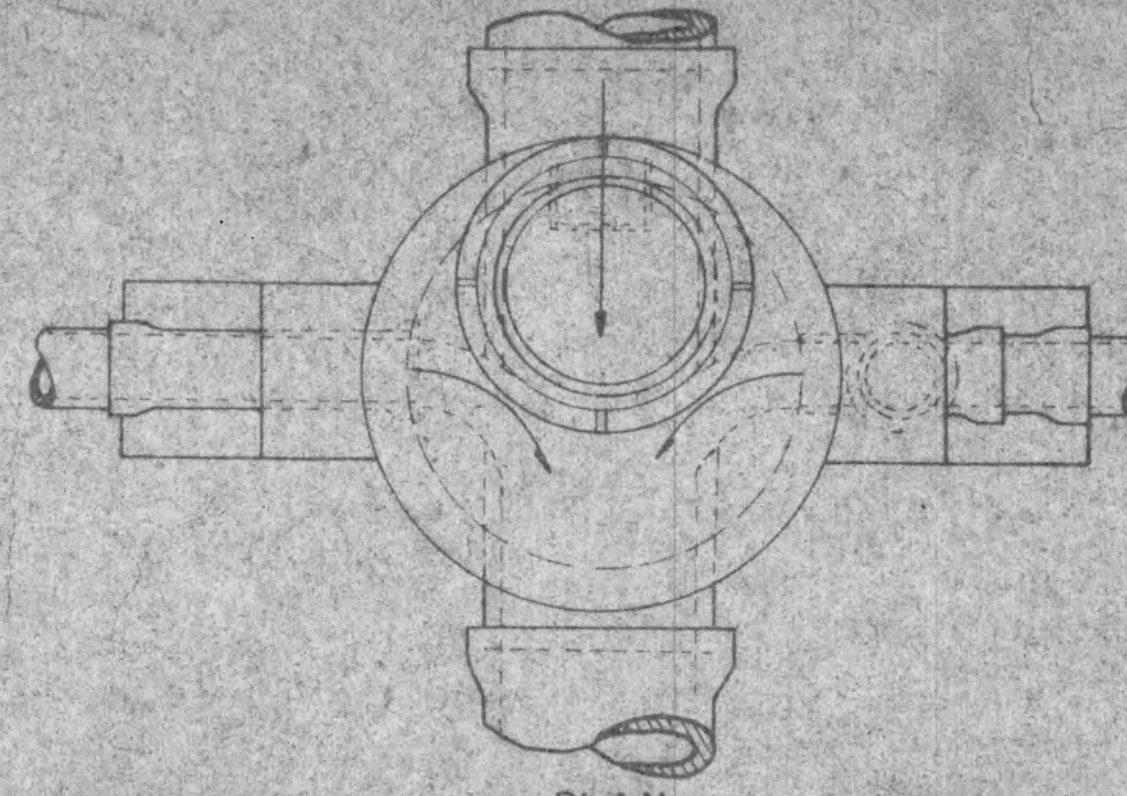


PLAN of TOP

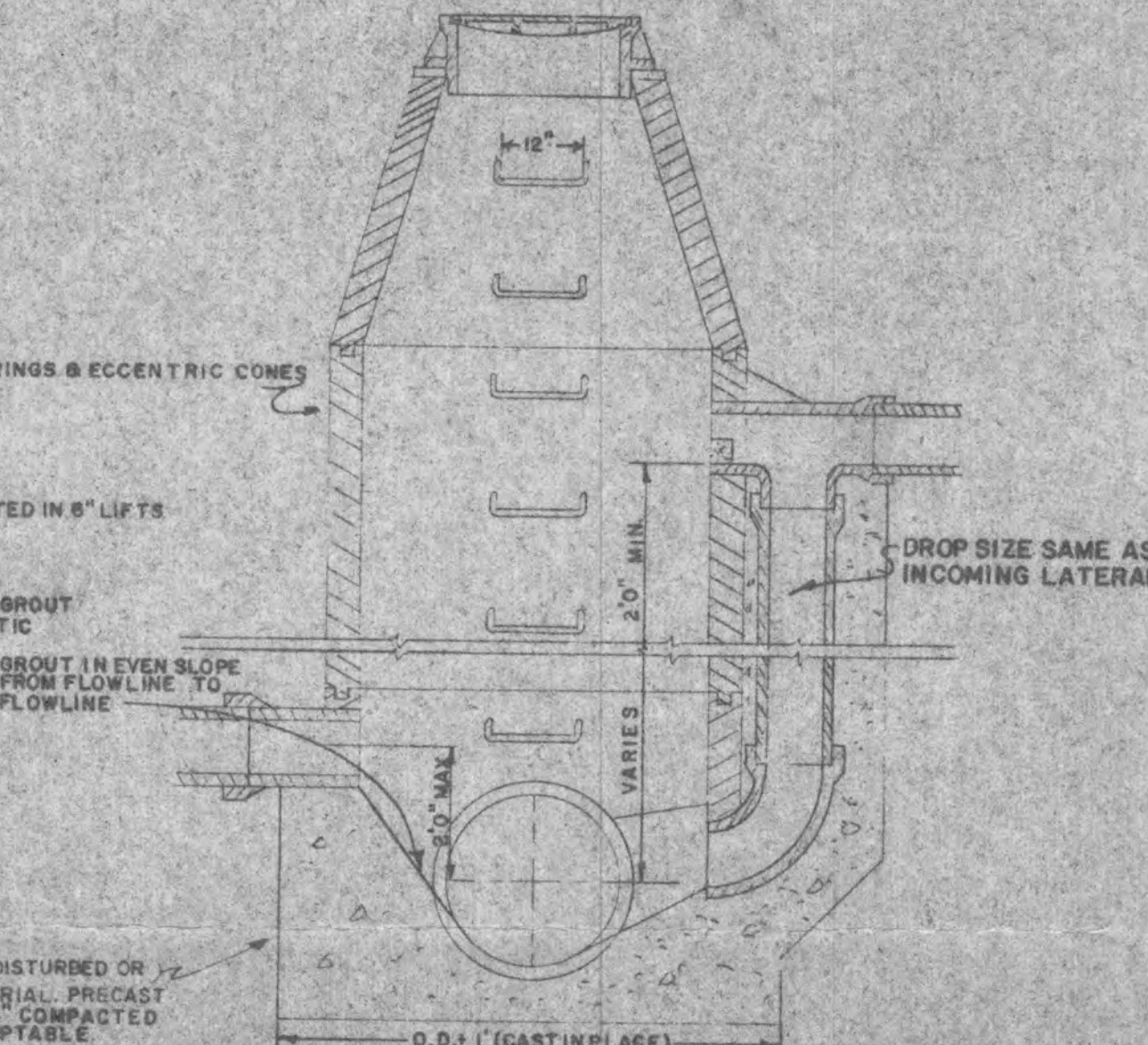


STANDARD MANHOLE

SCALE: 1/2" = 1'-0"



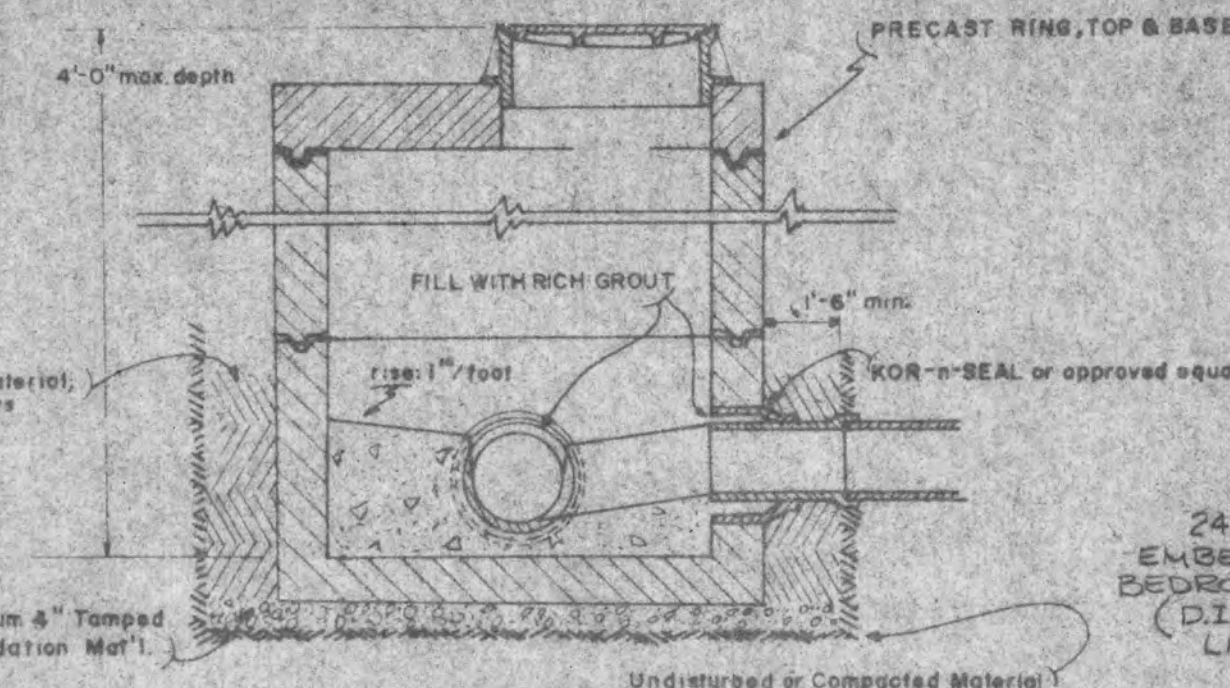
PLAN



DROP MANHOLE

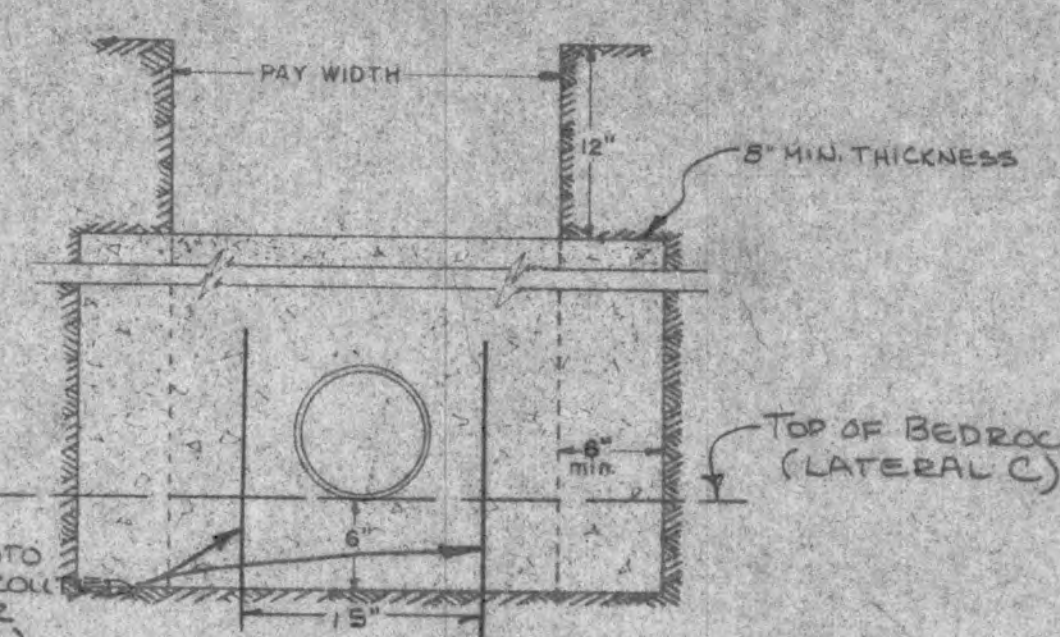
SCALE: 1/2" = 1'-0"

PRECAST MATERIAL SHALL CONFORM TO A.S.T.M. C-478



SHALLOW MANHOLE

SCALE: 1/2" = 1'-0"

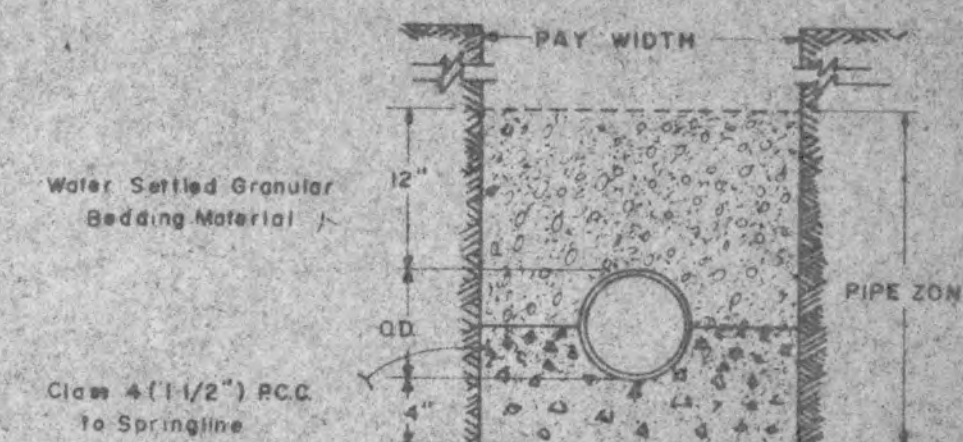


CONCRETE ANCHOR

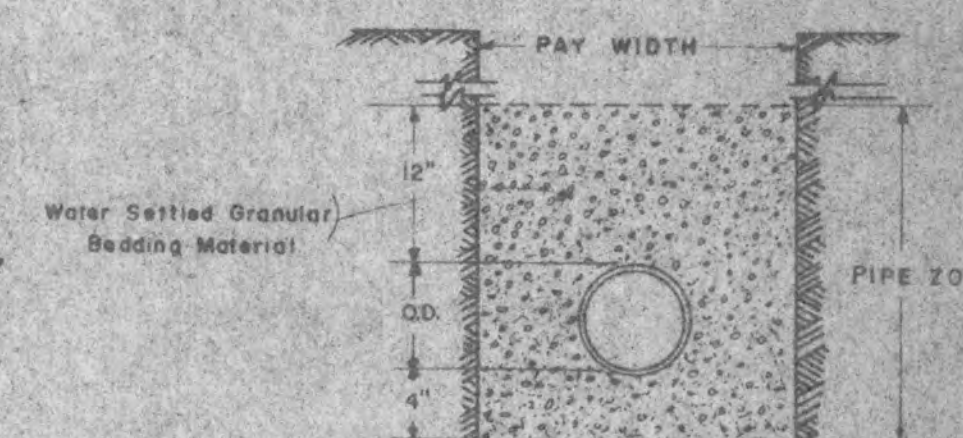
SCALE: 1" = 1'-0"

* CONCRETE ANCHOR SPACING		
SLOPE PERCENT	MINIMUM CENTER TO CENTER	
20 to 34	35 feet	
35 to 50	25 feet	
OVER 50	15 feet or CONCRETE ENCASE	

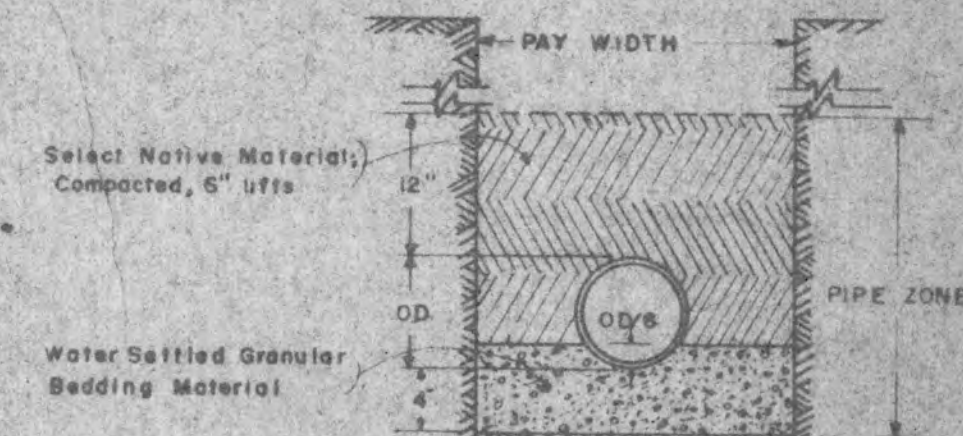
* SEE ALSO PROFILE GUIDELINE



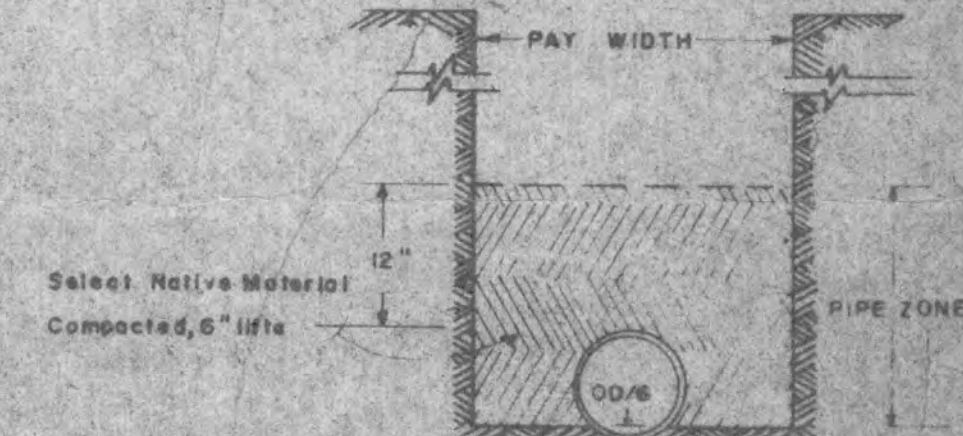
CLASS "A"



CLASS "B"



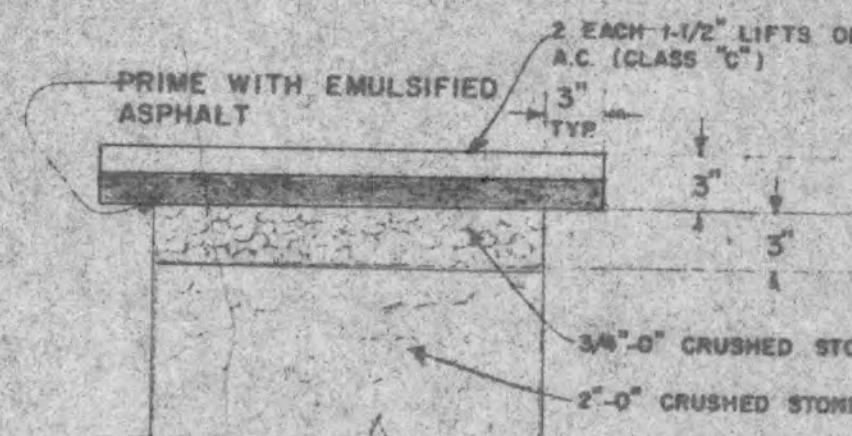
CLASS "C"



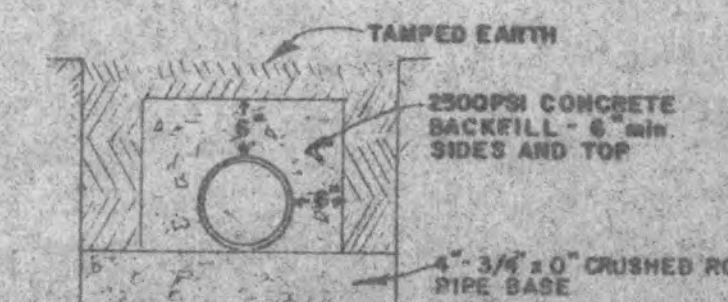
CLASS "D"

BEDDING REQUIREMENTS

NOT TO SCALE



A.C. PAVEMENT RESTORATION



CREEK CROSSING CONCRETE BACKFILL DETAIL

HORTON HEIGHTS II
CITY OF WEST LINN, OREGON

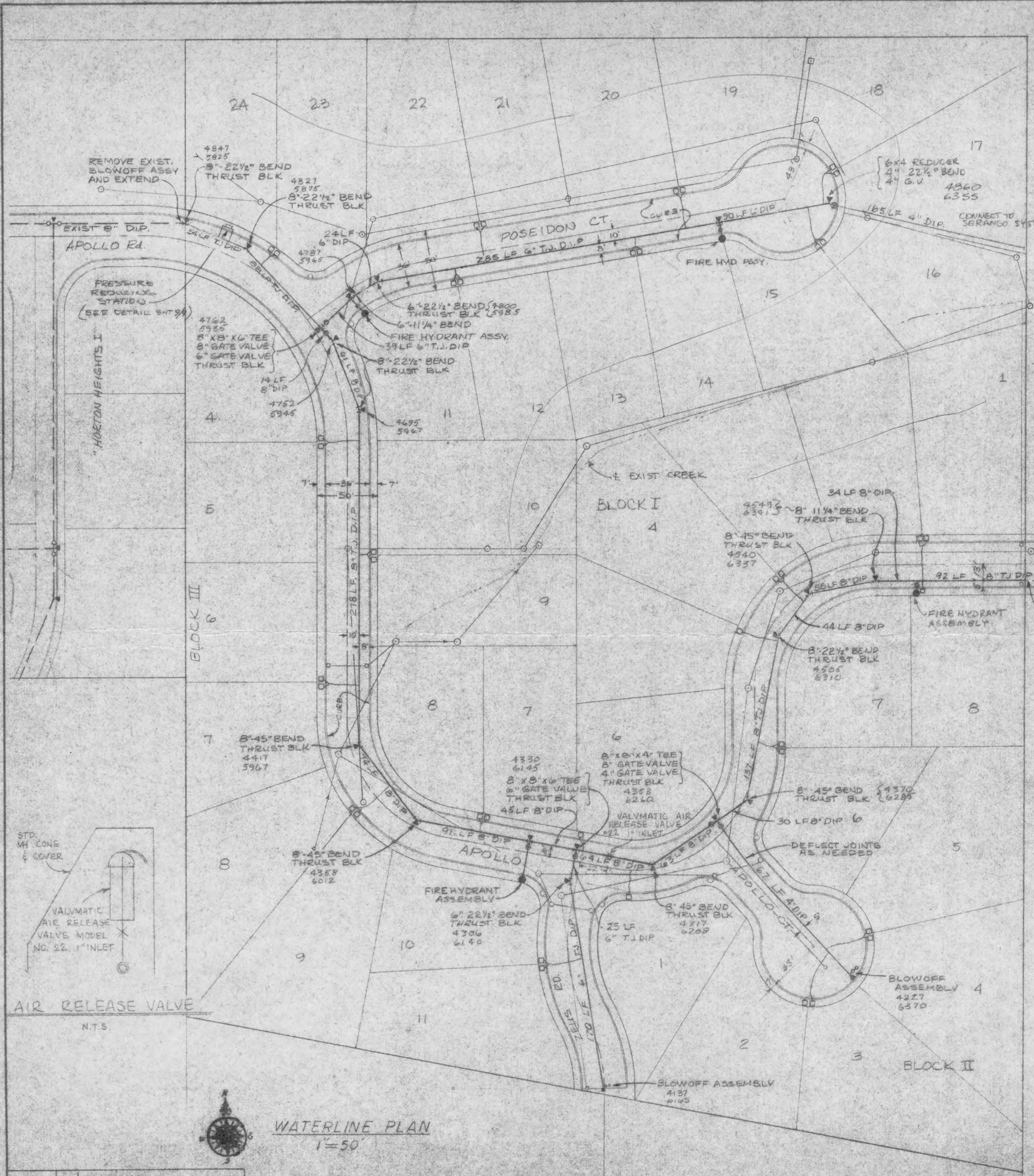
COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING
6584 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

NICK FOSSES
1957 CARRIAGE WAY
WEST LINN, OREGON 97068

PH. 636-0220

CONSTRUCTION DETAILS

OCT 29 1979

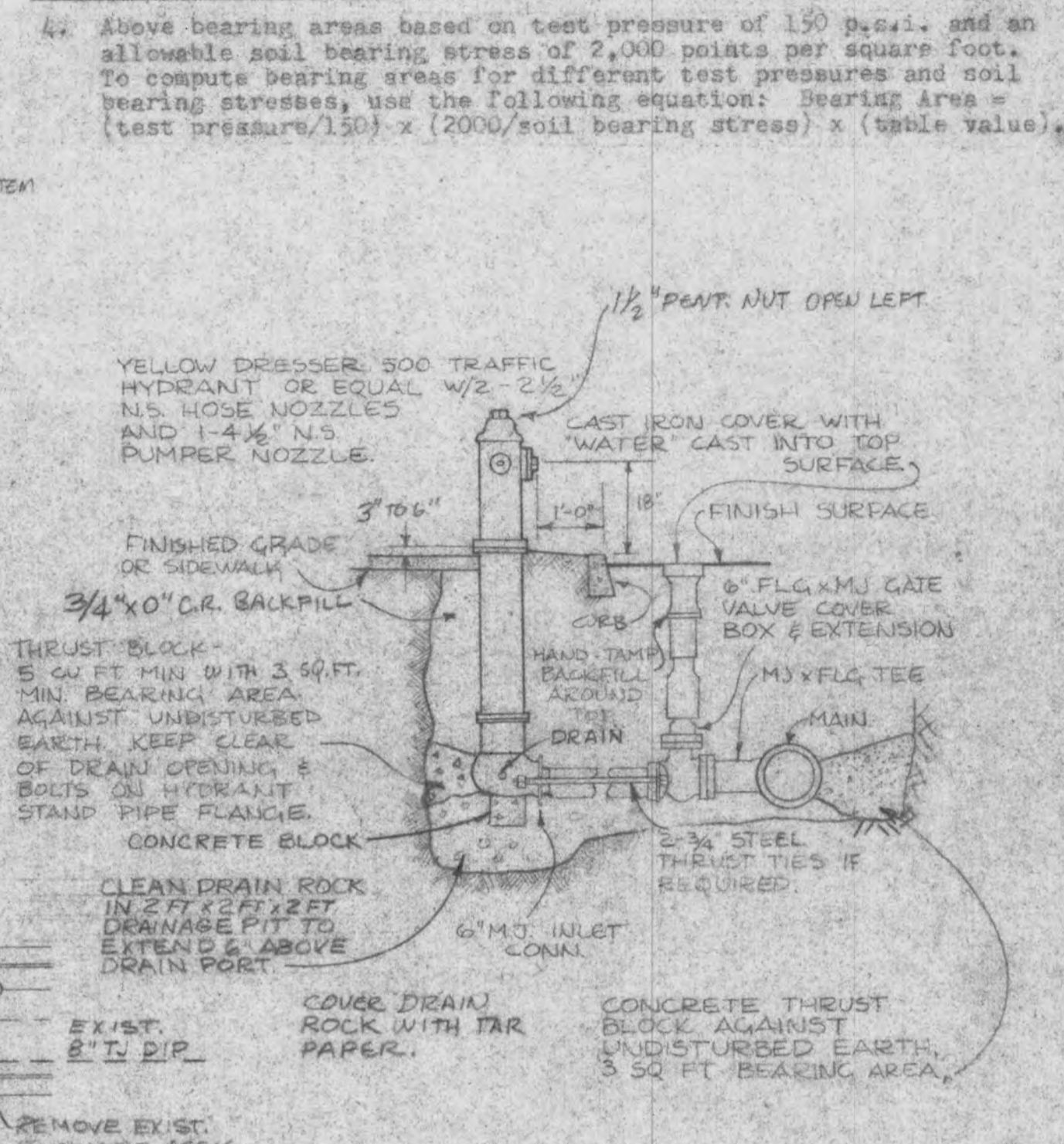


THRUST BLOCK NOTES

- Concrete thrust blocking to be poured against undisturbed earth.
- Keep concrete clear of joint and accessories.
- If not shown on plans, required bearing areas at fitting shall be as indicated below, adjusted if necessary, to conform to the test pressure(s) and allowable soil bearing stress(es) determined by inspector.

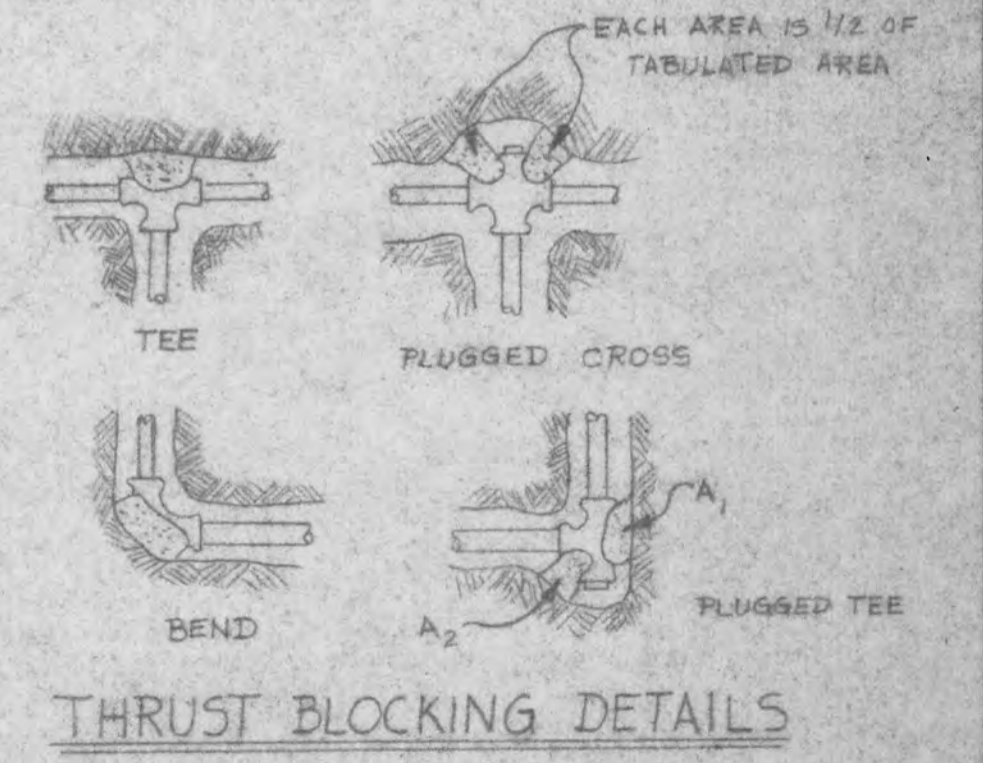
FITTING SIZE	TEE, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED A.O.N. WITH 1/2"	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.0	1.4	1.8	1.4	-	-
6	2.1	3.0	4.3	3.0	1.0	-
8	3.8	5.3	7.6	5.4	2.9	1.0

4. Above bearing areas based on test pressure of 150 p.s.i. and an allowable soil bearing stress of 2,000 pounds per square foot. To compute bearing areas for different test pressures and soil bearing stresses, use the following equation: Bearing area = (test pressure/150) x (2000/soil bearing stress) x (table value).



- WATER LINE CONSTRUCTION NOTES:**
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL CONSTRUCT THE WATERMAIN TO AVOID CONFLICT WITH EXISTING UTILITIES.
 - CONTRACTOR TO OBTAIN ALL PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
 - ALL WORK AND MATERIALS TO CONFORM WITH THE CITY OF WEST LINN, THE LATEST EDITION OF OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, A.W.W.A. AND A.P.W.A. STANDARDS.
 - ALL PIPE TO BE MINIMUM COVER OF 36 INCHES BELOW FUTURE STREET GRADES. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT PIPE INTERIORS, FITTINGS, AND VALVES AGAINST CONTAMINATION.
 - FIRE HYDRANTS TO BE DRY-BARREL AND COMPLY WITH A.W.W.A. C502.
 - SERVICES TO HAVE COMPRESSION TYPE FITTINGS.
 - INDIVIDUAL PRESSURE REDUCING VALVES ARE REQUIRED FOR EACH HOUSE SERVICE WHERE STATIC PRESSURE IS 80 P.S.I. OR GREATER.
 - HOUSE SERVICES TO BE COPPER TYPE "K" SEAMLESS SOFT ANNEALED.
 - SINGLE SERVICES TO BE 3/4 INCH.
 - DOUBLE SERVICES TO BE 1 INCH.
 - COPPER TUBE BENDS TO BE SMOOTH RADIUS.
 - METER BOXES TO BE NO. 1 METER BOX AS MANUFACTURED BY METER BOX EQUIPMENT COMPANY, TIGARD, OREGON.
 - SERVICE TAPS TO BE AT LEAST 18 INCHES APART. SADDLES REQUIRED.
 - CONTRACTOR TO INSTALL PIPELINE AND HOUSE SERVICES TO, AND INCLUDING CURB STOPS AND METER BOXES, HOUSE BUILDER TO INSTALL P.V.T. AND METER.
 - GATE VALVES TO BE A.W.W.A. C 300.
 - VALVES TO HAVE 2 INCH OPERATING NUT WITH COUNTER CLOCKWISE OPENING AND NONRISING STEM.

- DUCTILE IRON PIPE TO BE TYTON JOINT CEMENT MORTAR LINED CLASS 54 AND SHALL CONFORM TO ASTM C 110, C150 AND C151.
- DUCTILE CAST IRON WATER MAINS AND APPURTENANCES TO BE INSTALLED IN ACCORDANCE WITH A.W.W.A. STANDARD C 600.
- FITTINGS AND PIPE SECTIONS THAT WILL NOT BE DISINFECTED BY CHLORINE LIME FOR 24 HOURS SHALL HAVE THE INTERIORS SHAWED WITH A 5 PERCENT HYPOCHLORITE SOLUTION BEFORE THEY ARE INSTALLED.
- PIPE BEDDING SHALL BE CLASS B AS SHOWN ON CONSTRUCTION DETAILS DRAWING.
- CONCRETE THRUST BLOCKS TO BE CONSTRUCTED AT ALL TEES, BENDS, FIRE HYDRANTS, BLOWOFFS AND WHERE INDICATED ON PLANS. THE MINIMUM BEARING SURFACE AGAINST UNDISTURBED SOIL TO BE AS SHOWN ON PLANS. CONCRETE SHALL BE ALLOWED TO CURE BEFORE PIPELINE PRESSURE TESTING.
- PIPELINE TO BE TESTED AT 150 P.S.I. AND HELD AT THAT PRESSURE FOR 2 HOURS. PIPE LINE TO BE THOROUGHLY DISINFECTED AND PUSHED IN ACCORDANCE WITH A.W.W.A. STANDARD C 601.
- TRENCH BACKFILL AND COMPACTION: DRIVEWAYS AND STREETS--BACKFILL ABOVE PIPE ZONE SHALL BE 1 1/2-INCH MINUS. MATERIALS SHALL BE PLACED IN 8-INCH LIFTS AND COMPACTED TO 95 PERCENT RELATIVE DENSITY. OTHER AREAS--BACKFILL ABOVE PIPE ZONE SHALL BE NATIVE MATERIAL FREE OF ORGANIC MATTER OR ROCKS GREATER THAN 3 INCHES IN SIZE. COMPACTION SHALL BE SUCH AS REQUIRED TO ELIMINATE FUTURE SETTLEMENT.
- INDIVIDUAL PRESSURE REDUCING VALVES WILL BE REQUIRED FOR LOTS 1-3, AND 9-24 BLOCK I. SEE SHEET 9/9. VALVES TO BE SUPPLIED BY HOME BUILDER.



WATERLINE PLAN
1"=50'

DATE	NO.	REVISION
9-5-79	7	As-Built
1-5-79	6	APPROV. FOR CONST.
11-13-78	5	SHT. NO. 1, PRV. STA.
10-21-78	4	ADDED AIR RELEASE VALVE
10-10-78	3	P.V.C. TO DIP, DEPTH OF PIPELINE
10-6-78	2	PRV. STATION, BLOCK I
9-25-78	1	PRV. STATION, WINDING

DATE	NO.	REVISION
9-22-78	1	AS SHOWN

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654-7736

HORTON HEIGHTS II
CITY OF WEST LINN, OREGON

WATERLINE AND SERVICE PLAN

OCT 29 1979

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9

INDIVIDUAL PRESSURE REDUCING VALVES
REQUIRED AT METERS FOR LOTS IN HATCHED
AREA. P.R.V.'S TO BE SUPPLIED BY BUILDER.

PRV STATION
20 PSI REDUCTION
(46') 9

Q 504.08
PIPELINE EL. = 500
STATIC HEAD = 280'
PRESSURE = 100 PSI

- TANK OVERFLOW @
HORTON ROAD EL = 730.

PIPELINE EL=404
STATIC HEAD=280
PRESSURE=121 PSI

$$\frac{21 + 71.68}{T.O.C.} = 493.60$$

PIPELINE EL. = 490.00
STATIC HEAD = 194'
PRESSURE = 84 PSI

- SERANGO PRV STATION
EL = 500 - 80 PSI

$$\begin{aligned} & \underline{17 + 58.85} \\ & = 75.85 \\ & \text{PAU T} = 526.83 \end{aligned}$$

HIGH PT
T.O.C = 53509
PIPELINE SL-026
STATE HEAD = 157
PRESSURE = 157

PT 0+37.84
TVC = 527.34

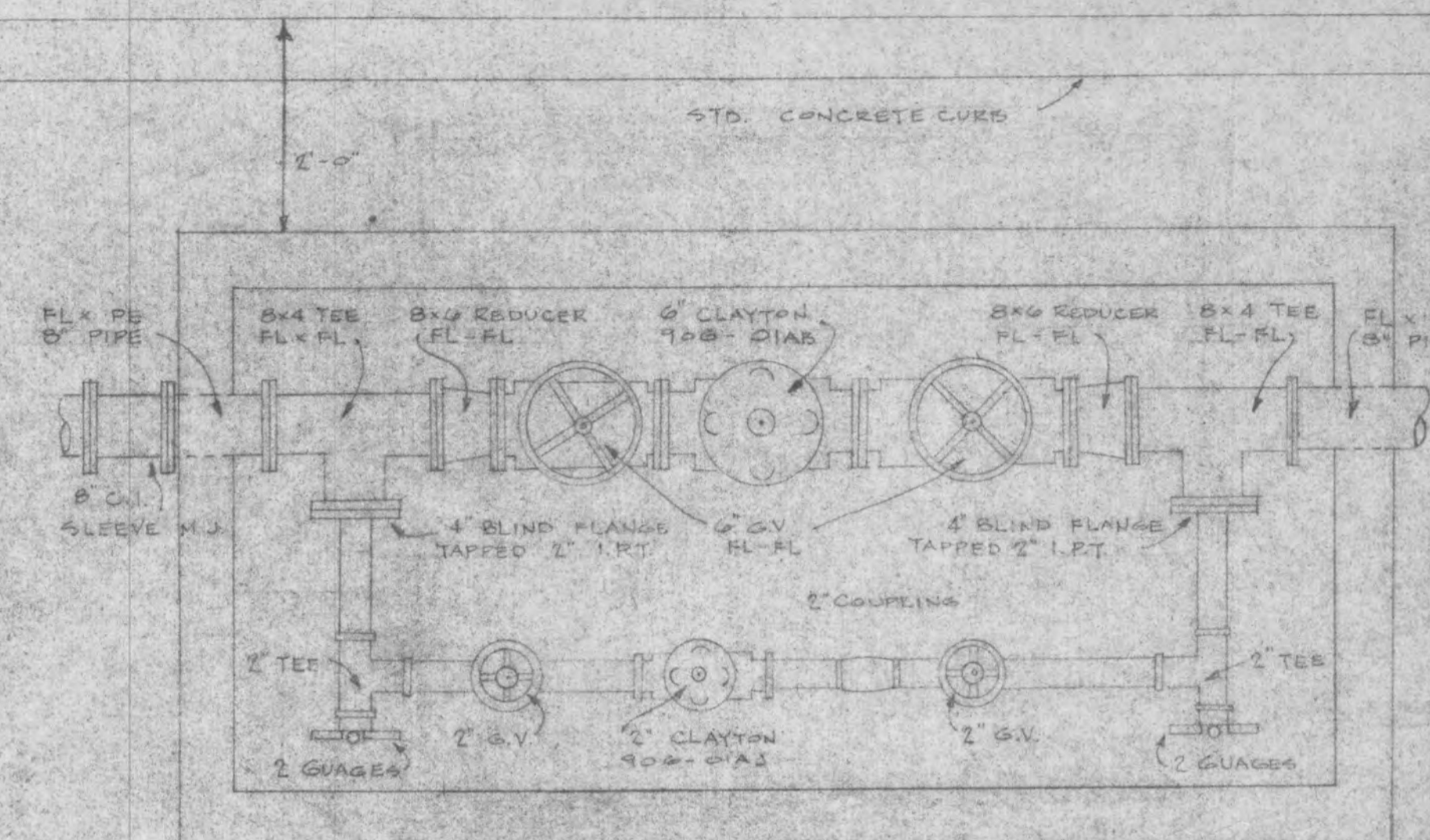
CENTER
PAV'T EL. 538.50

PIPELINE EL. =
STATIC HEAD = 143
PRESSURE = 62 PSI

PT 119.07
TOL = 557.44
PIPELINE EL = 554
STATIC HEAD = 129
PRESSURE = 50 PSI

NOTES

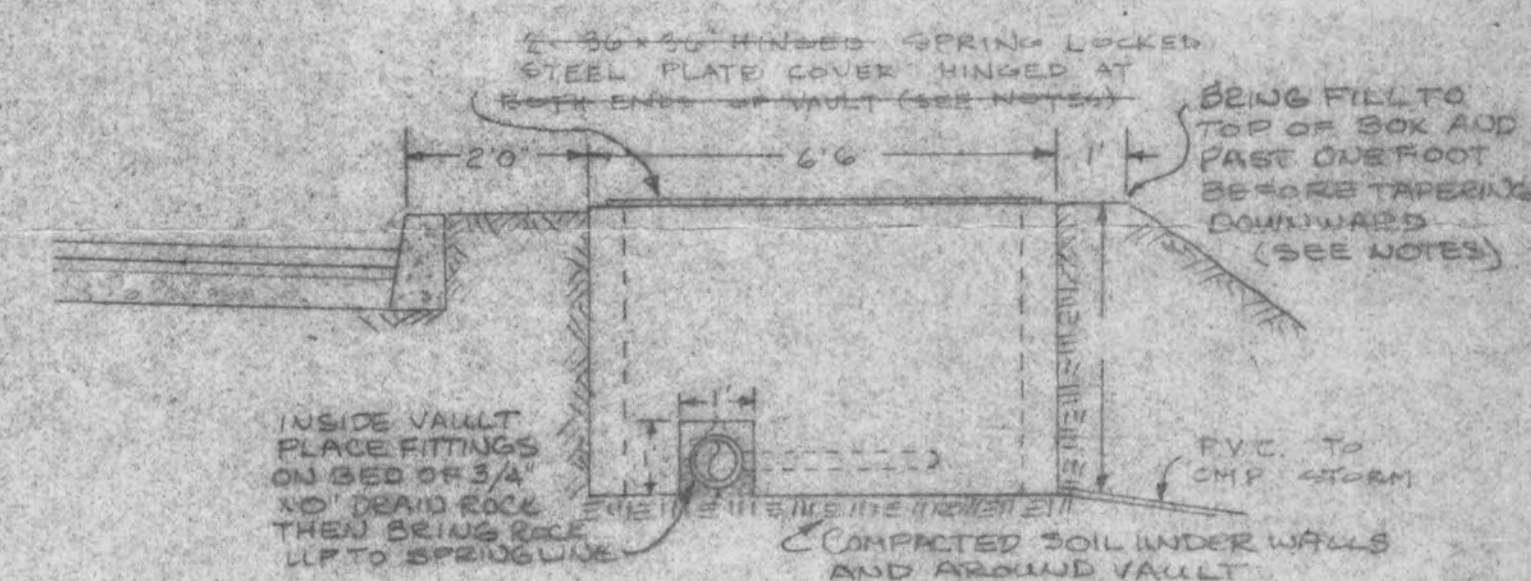
- CONTRACTOR MAY SUBSTITUTE VAULT STYLE 675-WA-44-332P BY UTILITY VAULT CO. OF WILSONVILLE, OREGON.
- 2-HINGED AND SPRING-LOCKED STEEL PLATE COVERS HINGED AT BOTH ENDS OF VAULT TO BE EQUIVALENT TO COVERS PROVIDED BY UTILITY VAULT CO. OF WILSONVILLE, ORE.
- TOP OF VAULT TO BE ADJUSTED TO FUTURE SIDEWALK ELEVATION.



PRESSURE REDUCING ASSEMBLY

NOTES

- ALL 2" FITTINGS I.P.T.
- GAUGES TO BE ORIENTED TO BE READ FROM OPENING
- INSIDE DIMENSION OF VAULT - 8'-6" X 6'-0" X 6'-0"



VAULT END ELEVATION

SEE OTHER SHEETS
THIS SET FOR WATERLINE,
SANITARY SEWER, AND
STORM DRAIN LOCATIONS.



PLAN
1" = 50'

10-26-79	5	PRESSURE RED. STA. 13+60.17
10-19-79	4	AS CONSTRUCTED AND
1-5-79	3	APPROV. FOR CONST.
11-13-78	2	TITLE, DETAILS, SHT. NO. PRESS.

DRAWN	GCK
SCALE	AS SHOWN
DATE	9-27-78

COMPASS CORPORATION
ENGINEERING SURVEYING PLANNING

MR. NICK FOSSES
1957 CARRIAGE WAY

WATERLINE DETAILS AND PRECONSTRUCTION
SITE CONTOURS

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