

MATCHLINE SEE SHEET 2 OF 6

NOTES:

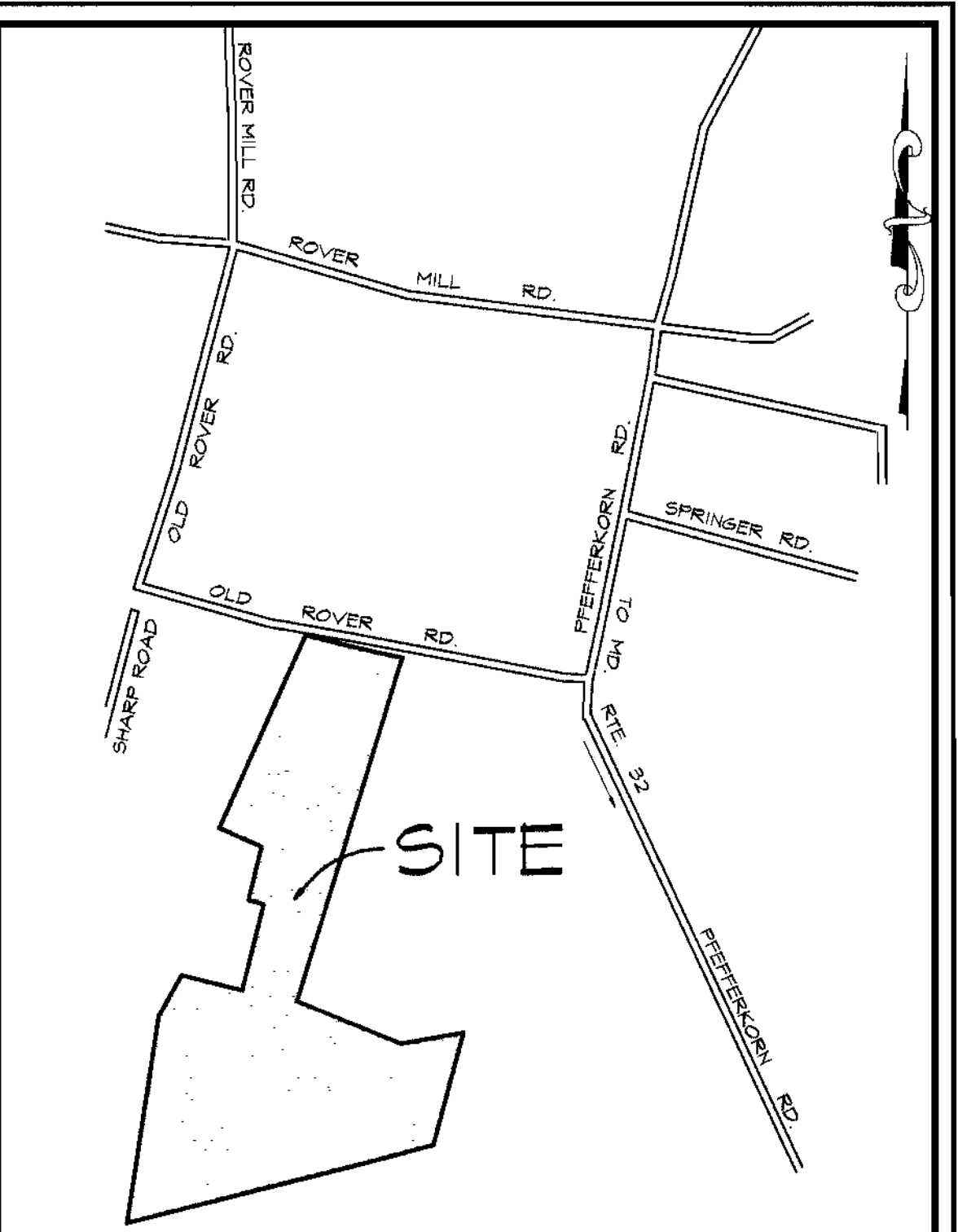
- A SEPTIC FEE IN THE AMOUNT OF \$180 PER LOT SERVICED BY THE COMMON SEPTIC SYSTEM SHALL BE PAID TO THE HOWARD COUNTY ENVIRONMENTAL HEALTH DEPARTMENT AT THE TIME OF THE SEPTIC CONSTRUCTION PERMIT ISSUANCE.
- WELLS ON THE LOTS SURROUNDING THE COMMON SHARED SEPTIC AREAS AND THE EXISTING WELLS SHALL BE TESTED FOR BACKGROUND LEVELS OF TOTAL COLIFORMS, TOTAL NITROGEN, PH, AND NITRATES PRIOR TO PUTTING THE SHARED SEPTIC SYSTEM IN SERVICE.
- THE WELLS TO BE TESTED AS FOLLOWS:
 LOT 1 - 13725 OLD ROVER ROAD
 LOT 2 - 3174 SHARP ROAD
 LOT 3 - 3185 SHARP ROAD
 LOT 4 - 3187 SHARP ROAD
 LOT 5 - 3141 SHARP ROAD
 LOT 6 - 3188 SHARP ROAD
 LOT 7 - 3144 SHARP ROAD
 LOT 8 - 3211 SHARP ROAD
 LOT 9 - 3221 SHARP ROAD
 13715 OLD ROVER ROAD
- COPIES OF ALL NOTIFICATIONS LETTERS TO HOMEOWNERS, ALL TEST RESULTS AND NON-RESPONSIVE ADDRESSES SHALL BE FORWARDED TO THE HOWARD COUNTY BUREAU OF UTILITIES PRIOR TO THE SYSTEM BEING PUT IN-SERVICE.
- THE BUILDER SHALL INSTALL BACKWATER VALVE AND RELIEF VENT ON THE SEWER SERVICE AT THE HOUSE AS REQUIRED BY THE PLUMBING INSPECTOR.
- INSTALLATION OF GRINDER PUMPS AND APPURTENANCES, AND THE 4" PVC SEWER HOUSE CONNECTIONS (SHC) ARE TO BE INSTALLED BY THE DEVELOPER. THE DEVELOPER SHALL BE REQUIRED TO PREPURCHASE THE SPECIFIED GRINDER PUMPS AND PROVIDE STORAGE AT THE MANUFACTURER'S FACILITY UNTIL SUCH TIME AS THEY ARE INSTALLED AND PLACED INTO SERVICE. NO PUMPS SHALL BE SET UNTIL THE HOUSE IS READY FOR U & O, AND ANY DEBRIS WHICH HAS ENTERED THE TANK PRIOR TO THE PUMP INSTALLATION SHALL BE PUMPED OUT AT THE DEVELOPER'S EXPENSE. THE DEVELOPER WILL RETAIN RESPONSIBILITY FOR INSTALLATION OF THE GRINDER PUMPS AND SHALL CONTRACT WITH THE MANUFACTURER TO PROVIDE START UP SERVICES JUST PRIOR TO U & O. GRAVITY CONNECTION TO THE GRINDER PUMPS WILL NOT BE ALLOWED UNTIL ALL WORK INSIDE THE HOMES IS COMPLETE AND THE HOMES ARE READY FOR OCCUPANCY.
- SEWER FORCE MAIN SHALL BE SDR 21, PVC, WITH PUSH ON SASKETED JOINTS. PRESSURE SEWER LATERALS MAY BE SDR 21 PVC WITH SOLVENT WELDED JOINTS. A 6 GAUGE TRACER WIRE SHALL BE WRAPPED AROUND OR ATTACHED TO THE PVC PIPE.
- SEPTIC TANKS SHALL BE VACUUM OR WATER TESTED ON-SITE BY THE MANUFACTURER. SEPTIC TANK SHOP DRAWINGS FROM THE MANUFACTURER SHOULD BE SUBMITTED TO THE HOWARD COUNTY ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO ANY INSTALLATION OF THE SEPTIC TANKS.
- ALL PRESSURE SEWER IS TO BE PRESSURE TESTED ACCORDING TO THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
- OBSERVATION WELL TO BE INSTALLED AFTER TRENCH INSTALLATION IS COMPLETED SO THAT PH, TOTAL COLIFORMS, TOTAL NITROGEN, AND NITRATES CAN BE MONITORED.
- A STATE CONSTRUCTION PERMIT IS REQUIRED ON COLLECTION SYSTEM WHICH SERVES 10 OR MORE LOTS.
- THIS PLAN IS SUBJECT TO NATIONAL WETLANDS PERMIT NO. 97-N-0104.
- ANY WELL WITHIN 50 FEET OF THE SEWER FORCE MAIN SHALL BE RELOCATED.

GENERAL NOTES:

- PART 1 - GENERAL
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL, AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES OR DAMAGED POLES BE DEDICATED FROM MONEY OWNED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL "W" AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN MADE SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION 581-5893
 BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES 280-4620
 BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL 787-9068
 MISS UTILITY 1-800-281-1111
 COLONIAL PIPELINE CO. 145-1540
 HOWARD CO. DEPT. OF PUBLIC WORKS BUREAU OF UTILITIES 313-4700
 HOWARD COUNTY ENVIRONMENTAL HEALTH DEPT. 410-313-2450
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR WORKING/JACKING OPERATION IN CONDUITS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPA REQUIREMENTS PER SECTION 19.1(K)(4) OF THE HOWARD COUNTY CODE.

PART 3 - SEWER

- ALL SEWER MAINS SHALL BE DIP AND PVC, UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE SDR 21 PVC.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED "M" IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS. STANDARD DETAIL 0552 SHALL BE USED FOR ALL MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S" INDICATES THAT CELLAR CANNOT BE SERVICE.
- TRENCH REQUIREMENTS:
 THE FOLLOWING 5 LOTS ARE TO BE SERVED BY THE SHARED SYSTEM: LOTS 11, 12, 13, 14 AND THE PRESERVATION PARCEL "A"
 *USE 4 BEDROOM/HOUSE
 600 GPD PER HOUSE
 600 GPD/HOUSE X 5 HOUSES = 3,000 GPD
 3,000 GPD / 60"/60. FT. = 3,000 SQ. FT. EFFECTIVE AREA
 3,000 SQ. FT. / 3 FT. WIDE TRENCH = 1,000 L.F. (REQUIRED)
 PROVIDED: 1,045 L.F.



WATER AND SEWER COUNTY CODE		TYPE OF BUILDINGS - SINGLE FAMILY DETACHED	
WATER CODE	N/A	NUMBER OF BUILDABLE LOTS	
SEWER CODE	N/A	NUMBER OF NON-BUILDABLE LOTS	
TEST GRADIENT	N/A	NUMBER OF SHC'S	
		NUMBER OF SDC'S	
		DRAINAGE AREA	

VICINITY MAP
SCALE: 1"=600'

NOTE:

THE CONTRACTOR SHALL NOTIFY HOWARD COUNTY HEALTH DEPARTMENT AT (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY PRESSURE TEST OR PRESSURE SEWERS, AND ANY SEPTIC TANKS VACUUM OR WATER TESTING IS PERFORMED.

HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
[Signature] 2/5/01 DATE
 NATURAL RESOURCES CONSERVATION SERVICE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 2/5/01 DATE
 HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 214 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS 97-36 F-01-12

SHEET INDEX	
NO.	DESCRIPTION
1	SHARED SEPTIC SYSTEM PLAN
2	SHARED SEPTIC SYSTEM PLAN
3	PROFILES
4	DETAILS
5	DETAILS
6	DETAILS
7	DETAILS

SEWER MANHOLE LOCATION DATA	
SM#	LOCATION
1	N 530415.19 E 800623.05

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature] 1-25-01 DATE
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
[Signature] 2/6/01 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

McCRONE
 ENGINEERING & ENVIRONMENTAL SCIENCES
 LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
 20 BROADWAY AVENUE
 ANNAPOLIS, MARYLAND 21401
 (410) 291-8811
 ANNAPOLIS - CENTREVILLE - SALISBURY - ELKTON - PRINCE FREDRICK



DES:	R. Sell				
DRN:	T. Price				
CHK:	R. Sell	KCI	2	AS-BUILT DATA	02/12/01
		KCI	1	AS-BUILT DATA	10/09/02
DATE:	Dec 2000	BY:	No.	REVISION	DATE

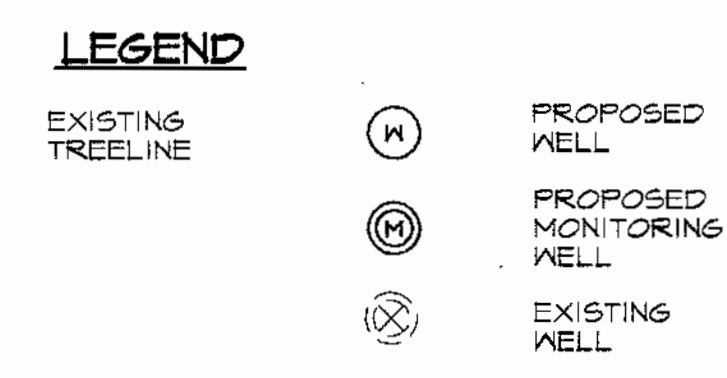
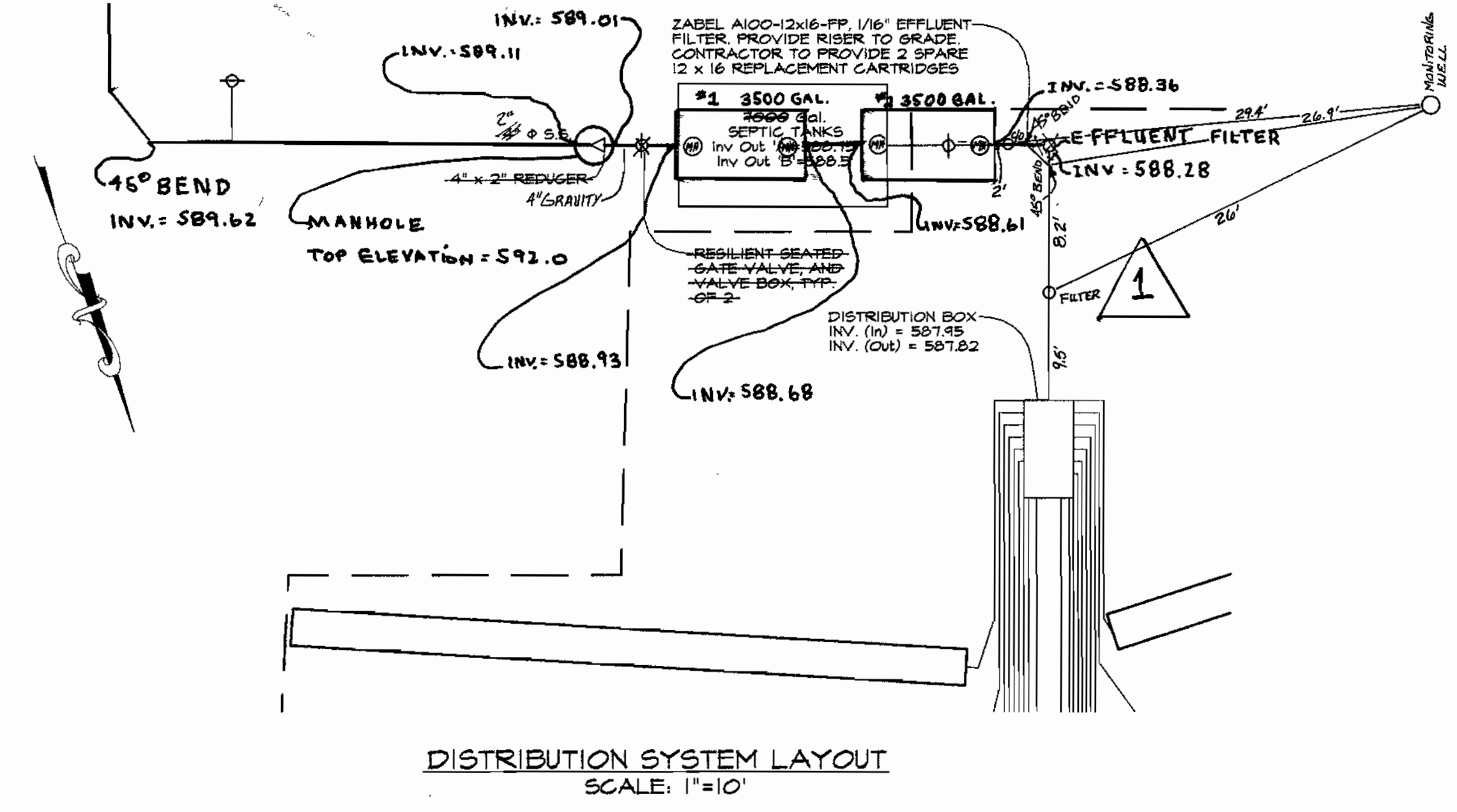
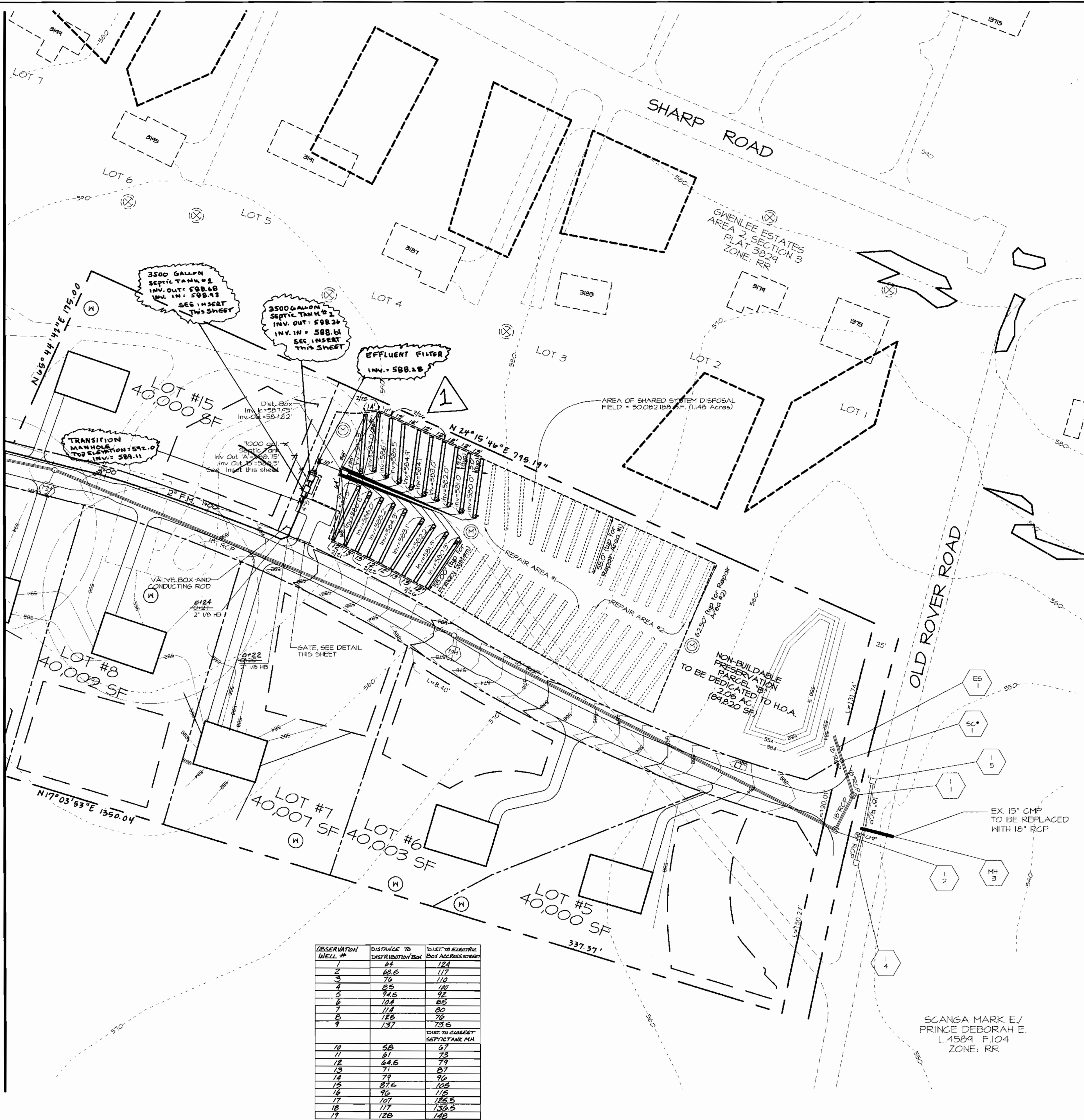
**TITLE SHEET;
 INDEX OF DRAWINGS,
 GENERAL NOTES,
 SHARED SEPTIC SYSTEM PLAN**

**FRIENDSHIP LAKE
 SHARED SEPTIC SYSTEM**
 CONTRACT No. 50-3871-D
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS 11 THRU 14, PRESERVATION PARCEL "A", HOWARD COUNTY HEALTH DEPT.
[Signature] 2/5/01 DATE
 COUNTY HEALTH OFFICER

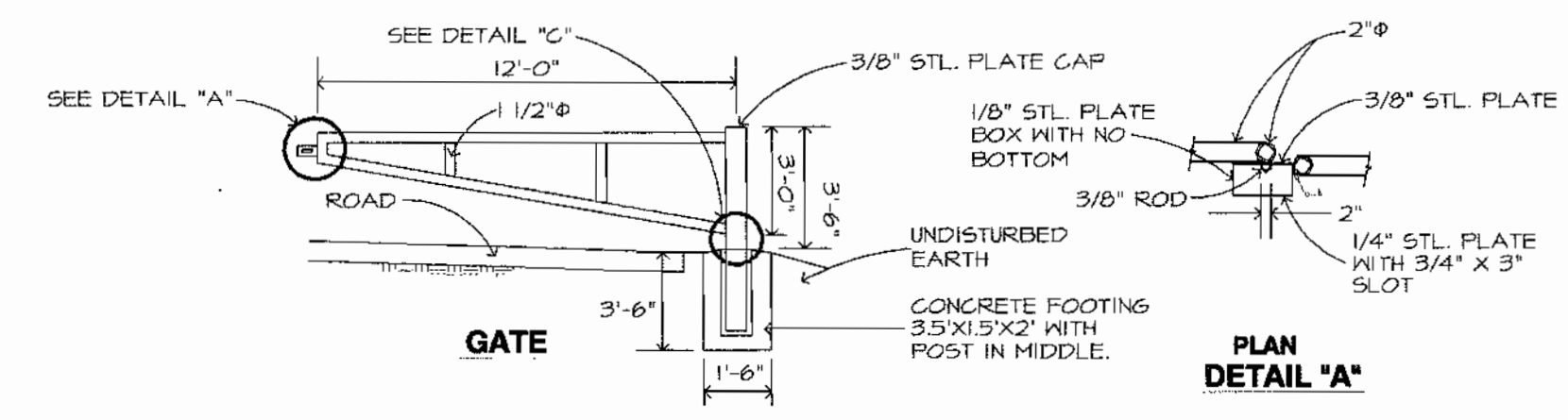
SCALE AS SHOWN
 SHEET 1 OF 7

MATCHLINE SEE SHEET 1 OF 6

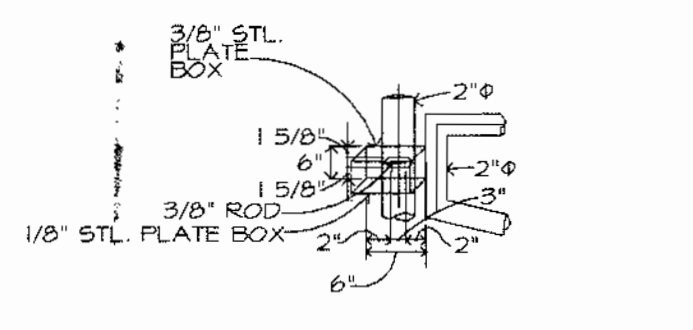


NOTES:

1. ALL METAL USED IN THE MANUFACTURE OF THE GATE TO BE HOT DIP GALVANIZED. ALL WELDS & PIPE TO BE PAINTED & TOUCHED UP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ALL JOINTS TO BE WELDED ALL AROUND WITH 3/16" WELDS.
3. ALL PIPE TO BE SCHEDULE 40 STEEL. DIAMETERS SHOWN ARE NOMINAL PIPE SIZE.
5. CONTRACTOR SHALL PROVIDE ADDITIONAL 3" Ø POSTS WITH 3/8" ROD. LOCATE TO HOLD GATE IN AN OPEN POSITION 90° FROM THAT SHOWN BELOW.
6. GATE TO SWING OUTWARD TOWARDS EXISTING STEEL DRIVE.
7. WIDTH OF GATE NOT TO EXCEED 12 FEET.



GATE DETAIL
NOT TO SCALE



ELEVATION

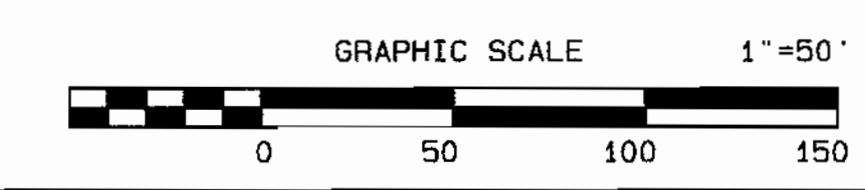
DETAIL 'C'

NOTE

SCREENING OF THE SHARED SEPTIC AREA IS SHOWN ON SHEET II OF THE PLANS PREPARED BY MILDENBERG, BOENDER & ASSOC., INC. TITLED "ROAD CONSTRUCTION PLANS- FRIENDSHIP LAKES, LOT 5 THRU 15 AND PRESERVATION PARCEL 'A' & 'B'. A RESUBDIVISION OF FRIENDSHIP LAKES LOTS 1, 2 AND 4".

OBSERVATION WELLS	DISTANCE TO DISTRIBUTION BOX	DIST TO ELECTRIC BOX ACCESS POINT
1	84	124
2	68.6	117
3	76	110
4	85	120
5	94.6	92
6	104	85
7	114	80
8	124	73
9	137	75.6
10		
11	58	107
12	61	75
13	44.5	79
14	79	67
15	79	96
16	87.5	105
17	96	115
18	101	125
19	117	136.5
20	128	146

SCANGA MARK E./ PRINCE DEBORAH E. L4504 F.104 ZONE: RR



APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS 11 THRU 14: PRESERVATION PARCEL "A" HOWARD COUNTY HEALTH DEPT.
David M. ...
COUNTY HEALTH OFFICER

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. ...
1-25-01

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
2/8/01

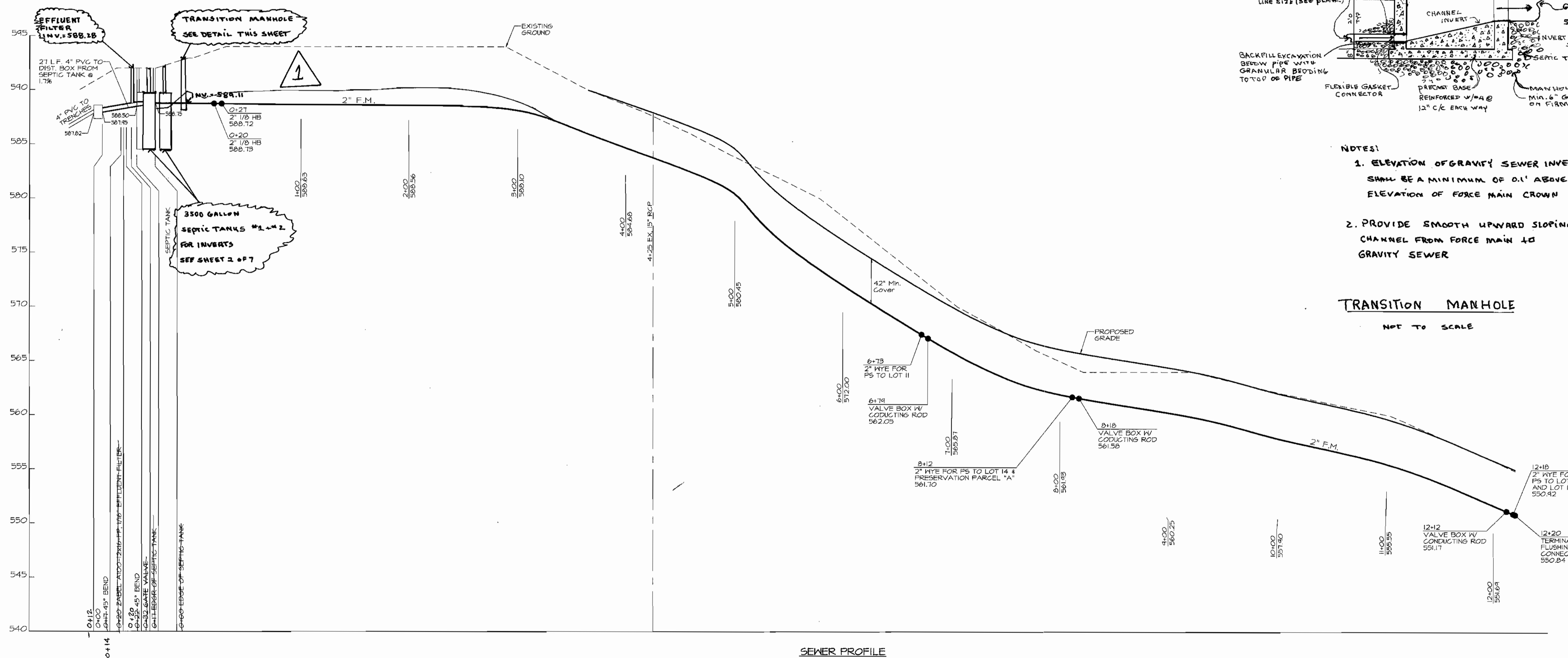
McCRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
20 RIDGELY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 321-8800



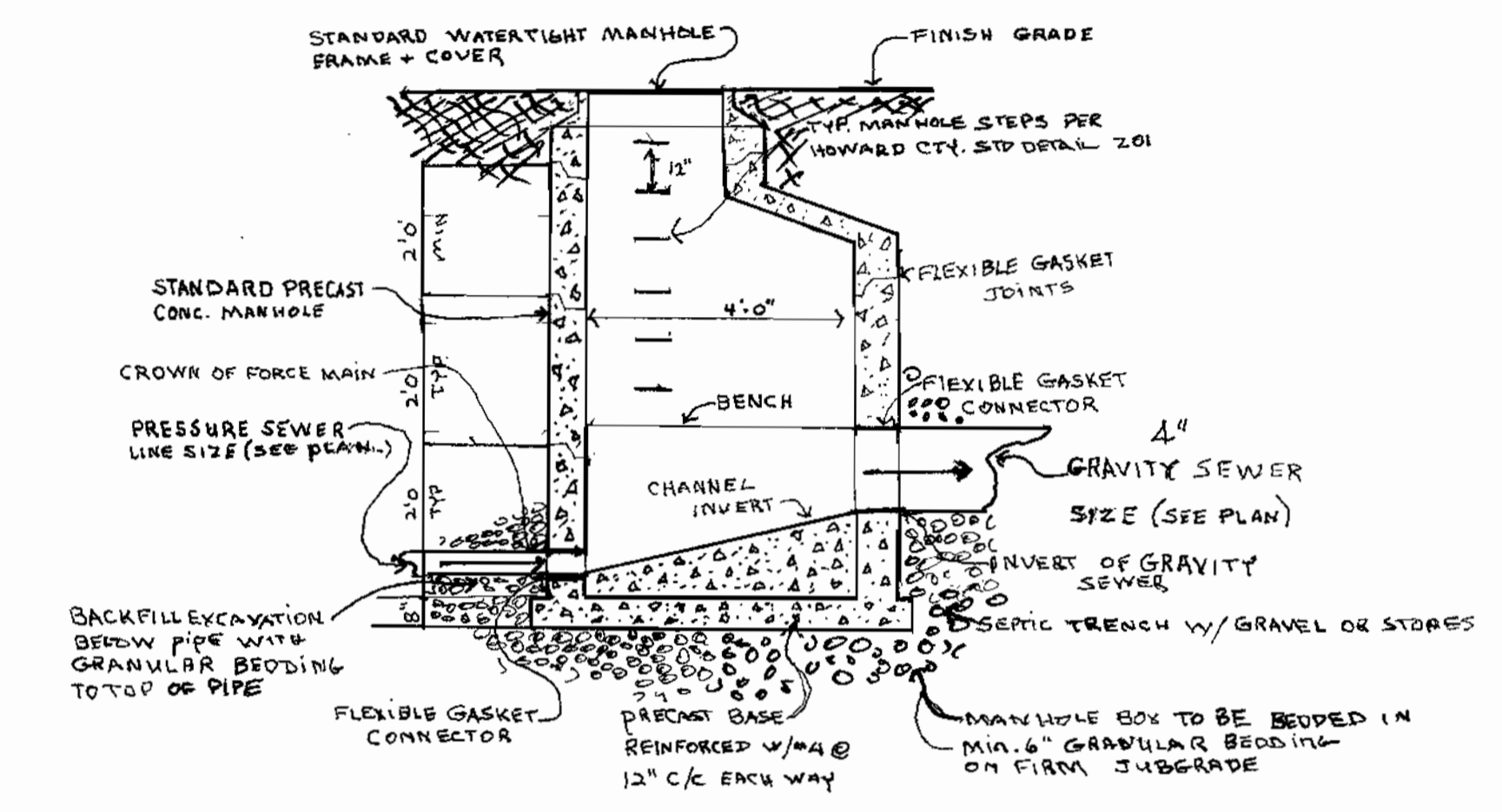
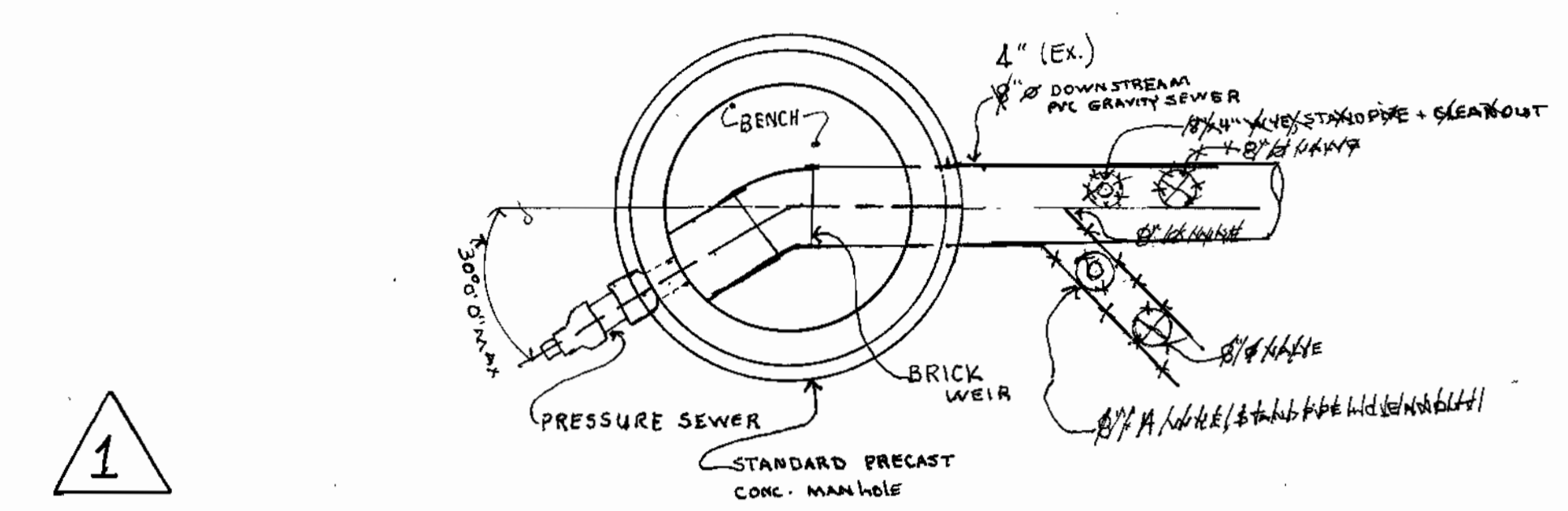
DES:	R. Sell	REV:	4	ADD 2x 3500 GAL. SEPTIC TANKS
DRN:	T. Price			
CHK:	R. Sell	KCI 2	ASBUILT DATA (REVIEW)	2/14/01
		KCI 1	ASBUILT DATA	
DATE:	Jan 2001	BY:	No.	REVISION

SHARED SEPTIC SYSTEM PLAN
JOB No. C1940484 FILE: 6\1940484 - Eder Proprietor\dwg\shdseptic-system.rvt

FRIENDSHIP LAKE SHARED SEPTIC SYSTEM
CONTRACT No. 50-3871-D
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 2 OF 7



SEWER PROFILE
SCALE: H 1"=50' V 1"=5'



- NOTES:**
1. ELEVATION OF GRAVITY SEWER INVERT SHALL BE A MINIMUM OF 0.1' ABOVE ELEVATION OF FORCE MAIN CROWN
 2. PROVIDE SMOOTH UPWARD SLOPING CHANNEL FROM FORCE MAIN TO GRAVITY SEWER

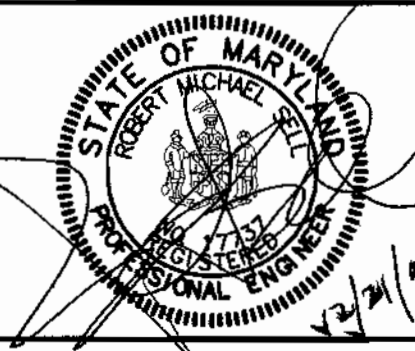
TRANSITION MANHOLE
NOT TO SCALE

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS II THRU IV, PRESERVATION PARCEL "A" HOWARD COUNTY HEALTH DEPT.
David L. Matney 1/10/01
COUNTY HEALTH OFFICER

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert W. Bennett 1-25-01
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
William J. ... 2/10/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

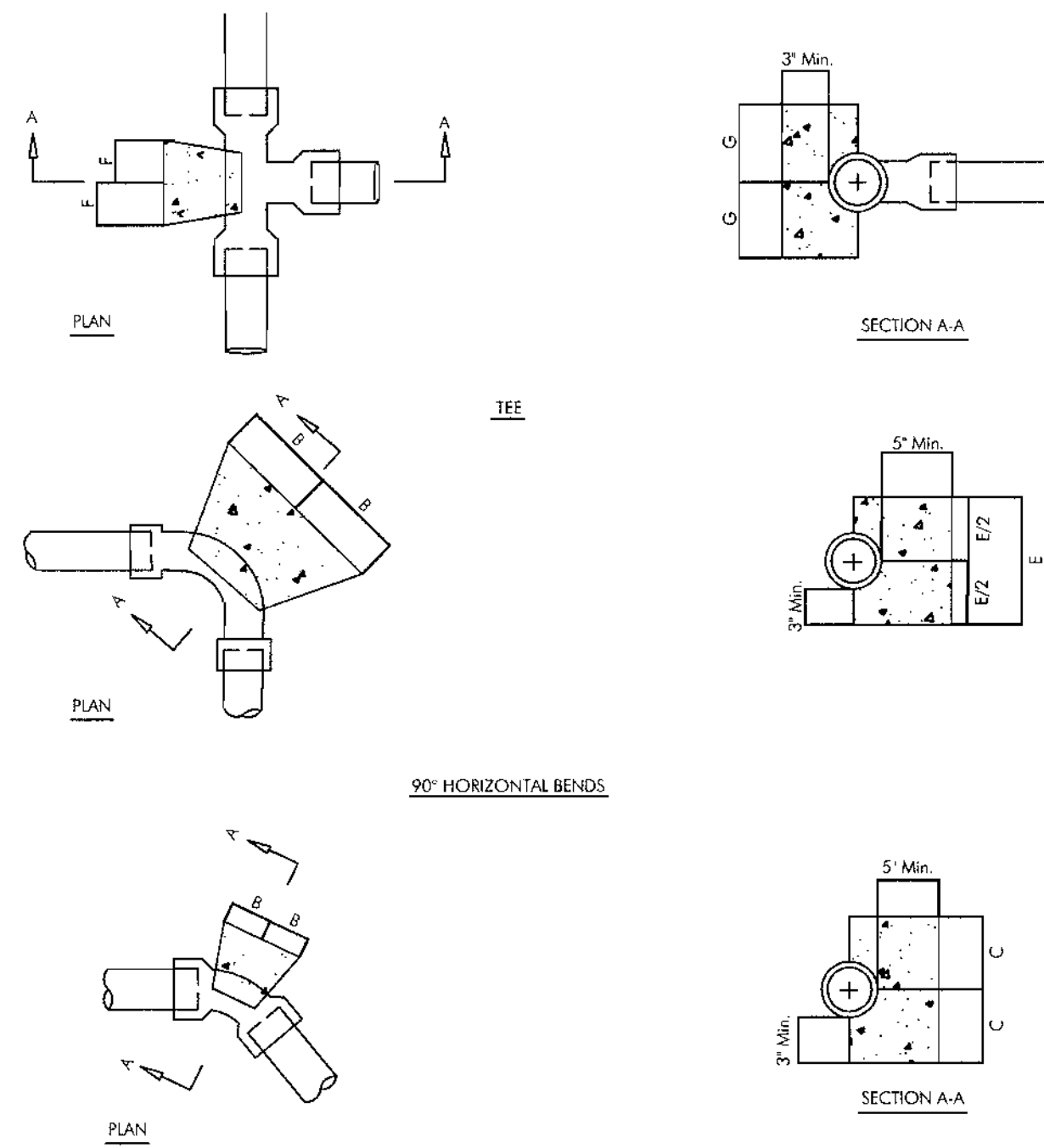
McCRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
20 ROCKLEY AVENUE
ANAPOLIS, MARYLAND 21401
(410) 291-8801
ANAPOLIS - CENTREVILLE - SALISBURY - ELKTON - PRINCE FREDERICK



DES:	R. Sell	DL	1	ADD 2x 3500 GAL SEPTIC TANKS	
DRN:	T. Price				
CHK:	R. Sell	KCI	2	ASBUILT DATA REVISED	10/12/02
		KCI	1	ASBUILT DATA	10/08/02
DATE:	Dec 2000	BY:	No.	REVISION	DATE

PROFILE
JOB No. C1490484 FILE: 6:\PRG\481 - Edgar Property\Drawings\Friendship-graders.spr

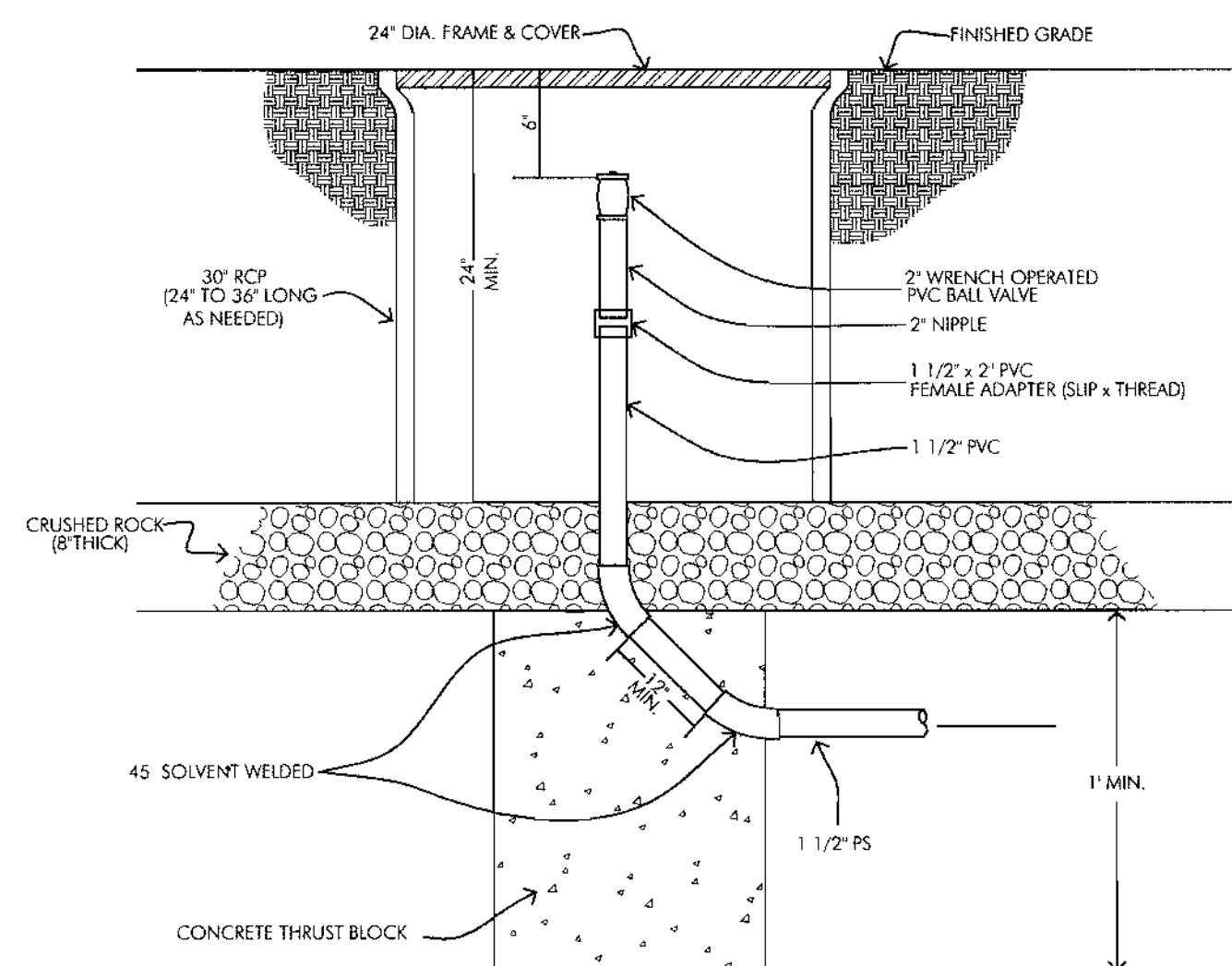
FRIENDSHIP LAKE SHARED SEPTIC SYSTEM
CONTRACT No. 50-3871-D
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 3 OF 7



BUTTRESS DIMENSIONS						
PIPE SIZE	B	C	D	E	F	G
1 1/2" OR 2"	4 1/2"	4 1/2"	5"	9"	4 1/2"	4"
2"	5"	5"	7"	7"	5"	5"

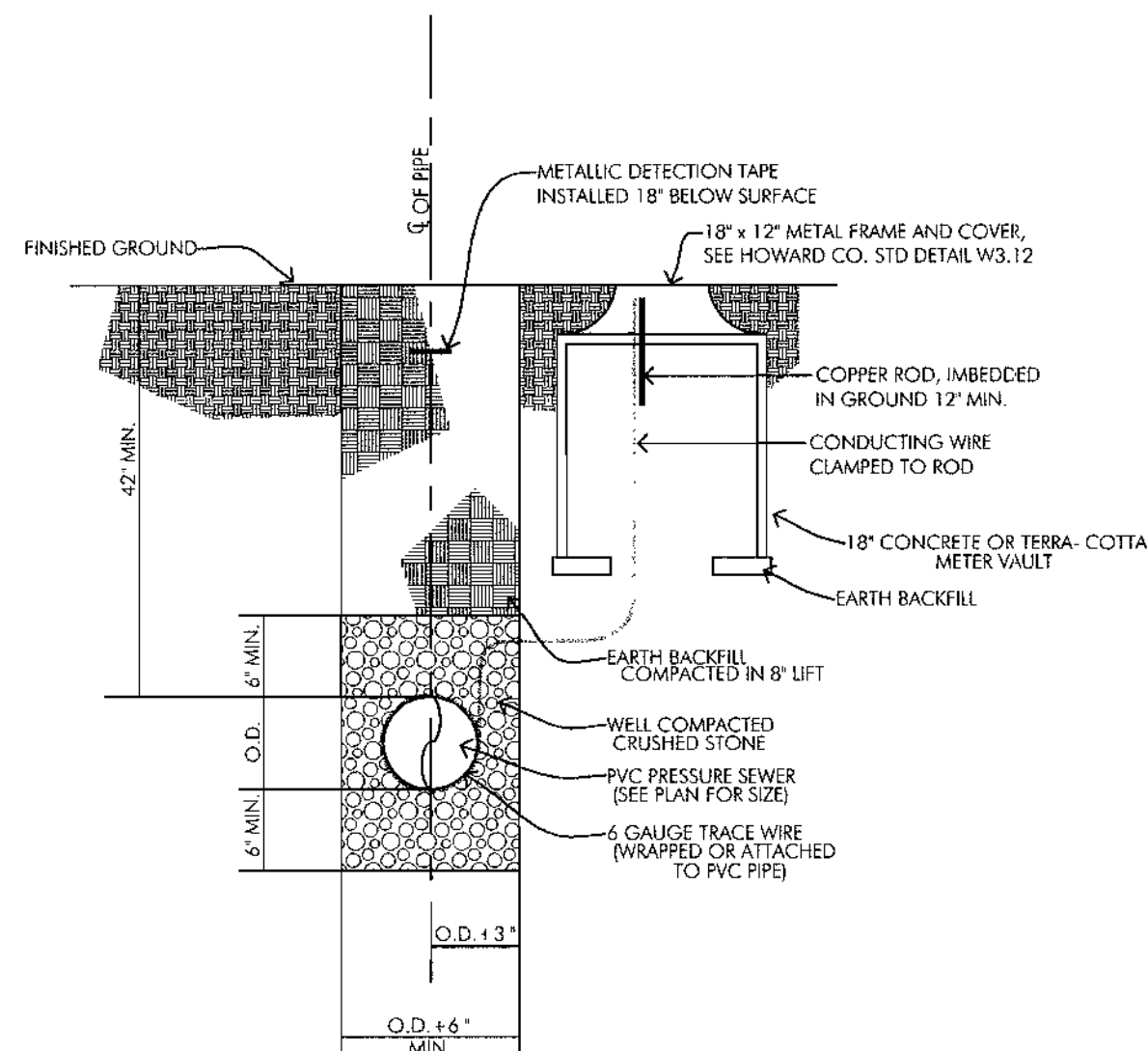
- NOTES:
1. Fc=3000 P.S.I. @ 28 DAYS
 2. CARRY ALL BEARING SURFACES TO UNDISTURBED GROUND OR FIRM SUBGRADE.
 3. BUTTRESS SIZED FOR 150 P.S.I. AND SOIL WITH C(3) = 2000 P.S.I.
 4. DO NOT ENCASE JOINTS

NOT TO SCALE



TERMINAL FLUSHING CONNECTION

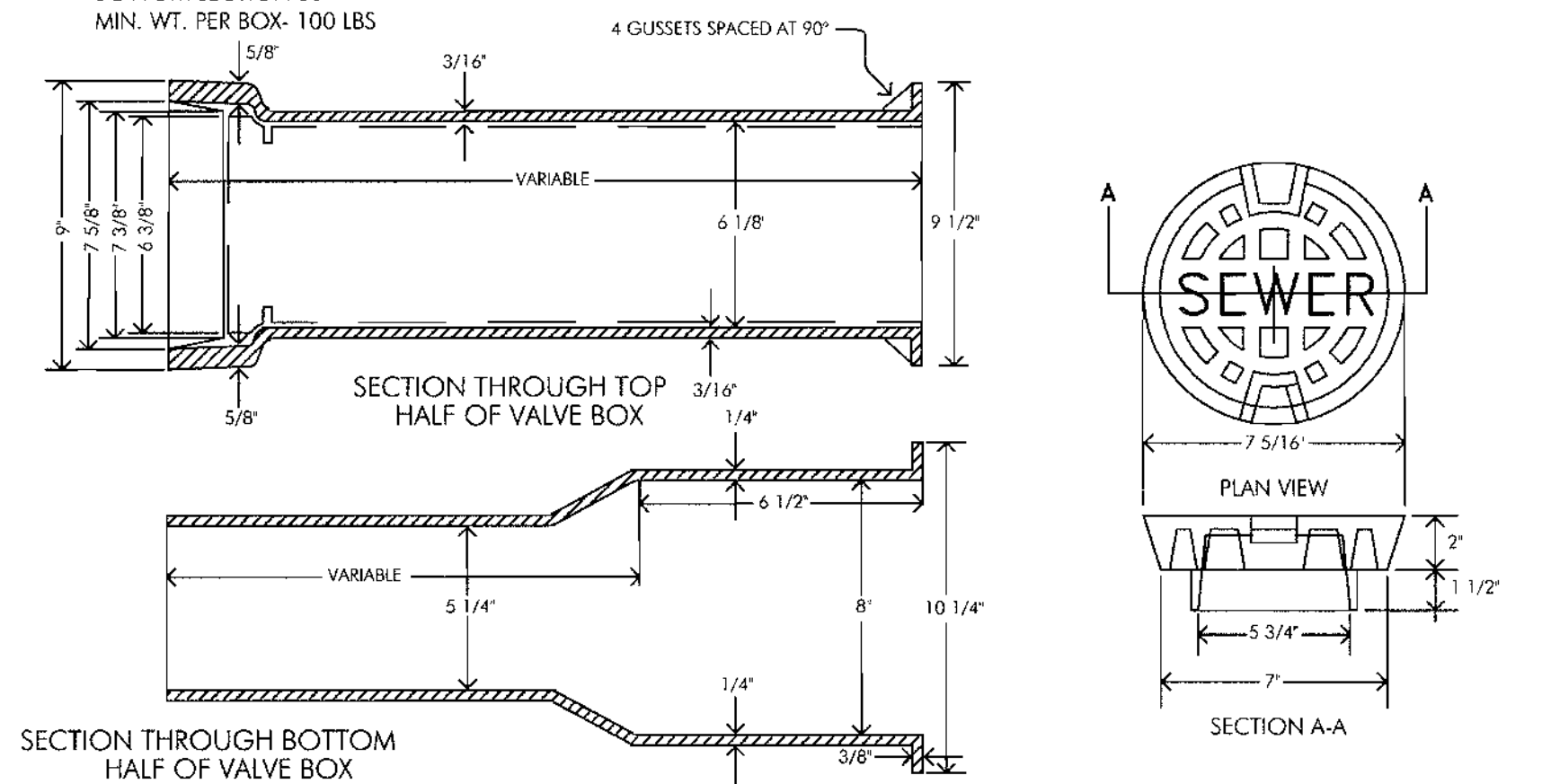
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PRESSURE SEWER TRENCH, BEDDING & CONDUCTING ROD CABLE BOX LOCATION DETAIL

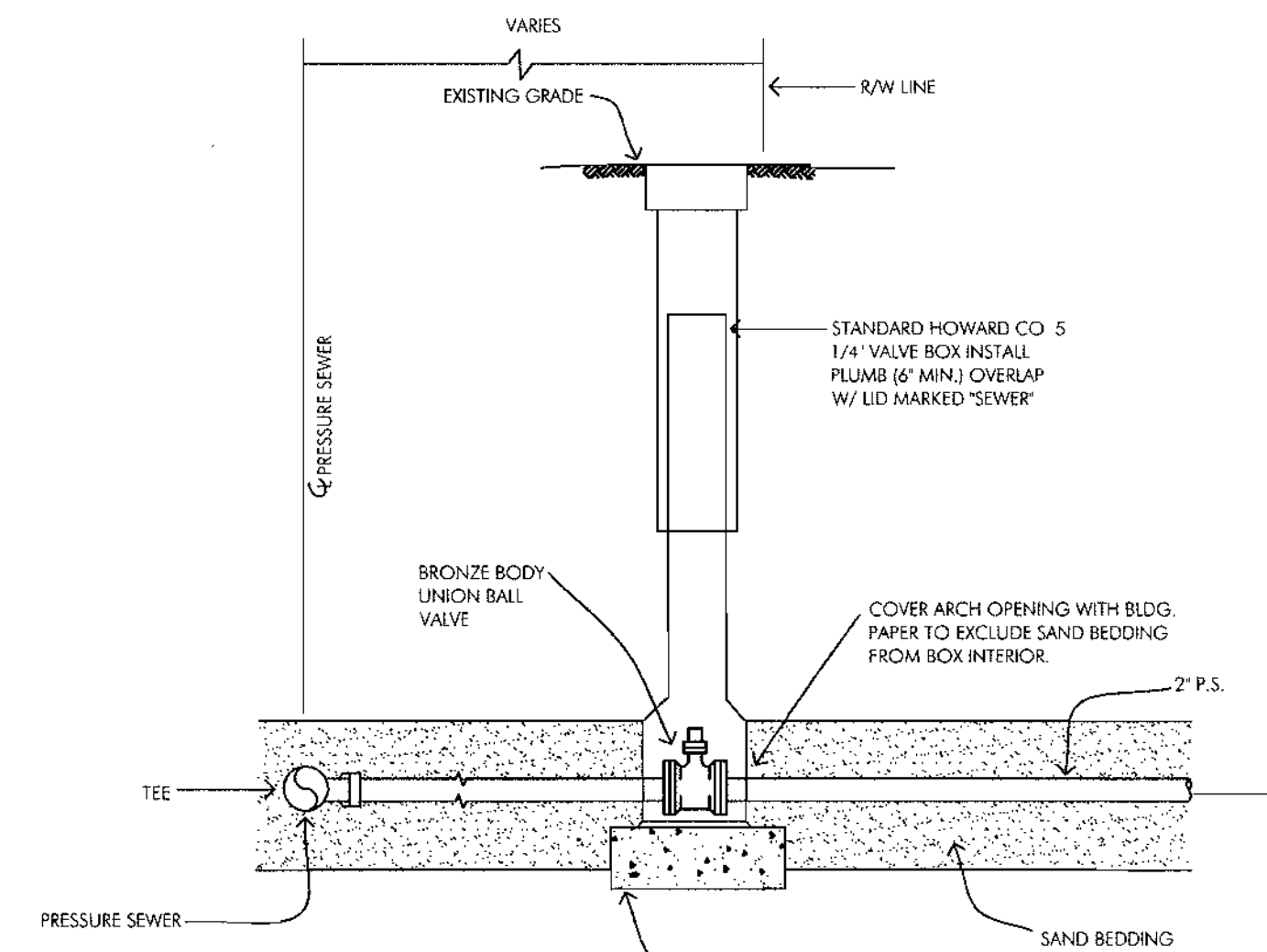
NOT TO SCALE

- SPECIFICATIONS:
1. CAST IRON-SLIDING TYPE
MIN. T.S. 30,000 PSI
 2. TOP SECTION- 16"
BOTTOM SECTION 18"
 3. BOXES ADJUSTABLE 34" TO 46"
 4. TOP SECTION- 16"
BOTTOM SECTION 30"
MIN. WT. PER BOX- 100 LBS



ADJUSTABLE VALVE BOX ROUND HEAD SLIDING TYPE

NOT TO SCALE



- NOTES:
1. MAINTAIN 4\"/>
 2. CONCRETE SLAB ON UNDISTURBED EARTH OR FIRM SUBGRADE.

UNION BALL VALVE ASSEMBLY

NOT TO SCALE

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS 11 THRU 14; PRESERVATION PARCEL "A" HOWARD COUNTY HEALTH DEPT.

David Matuszak 01/10/01
COUNTY HEALTH OFFICER M.A. DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert W. Berman 1-25-01
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael J. ... 2/9/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MICRONE
ENGINEERING ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES
30 BROADWAY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 297-0621



DES: R. SELL				
DRN: RJR				
CHK: R. SELL				
DATE: 1/00	BY	No.	REVISION	DATE

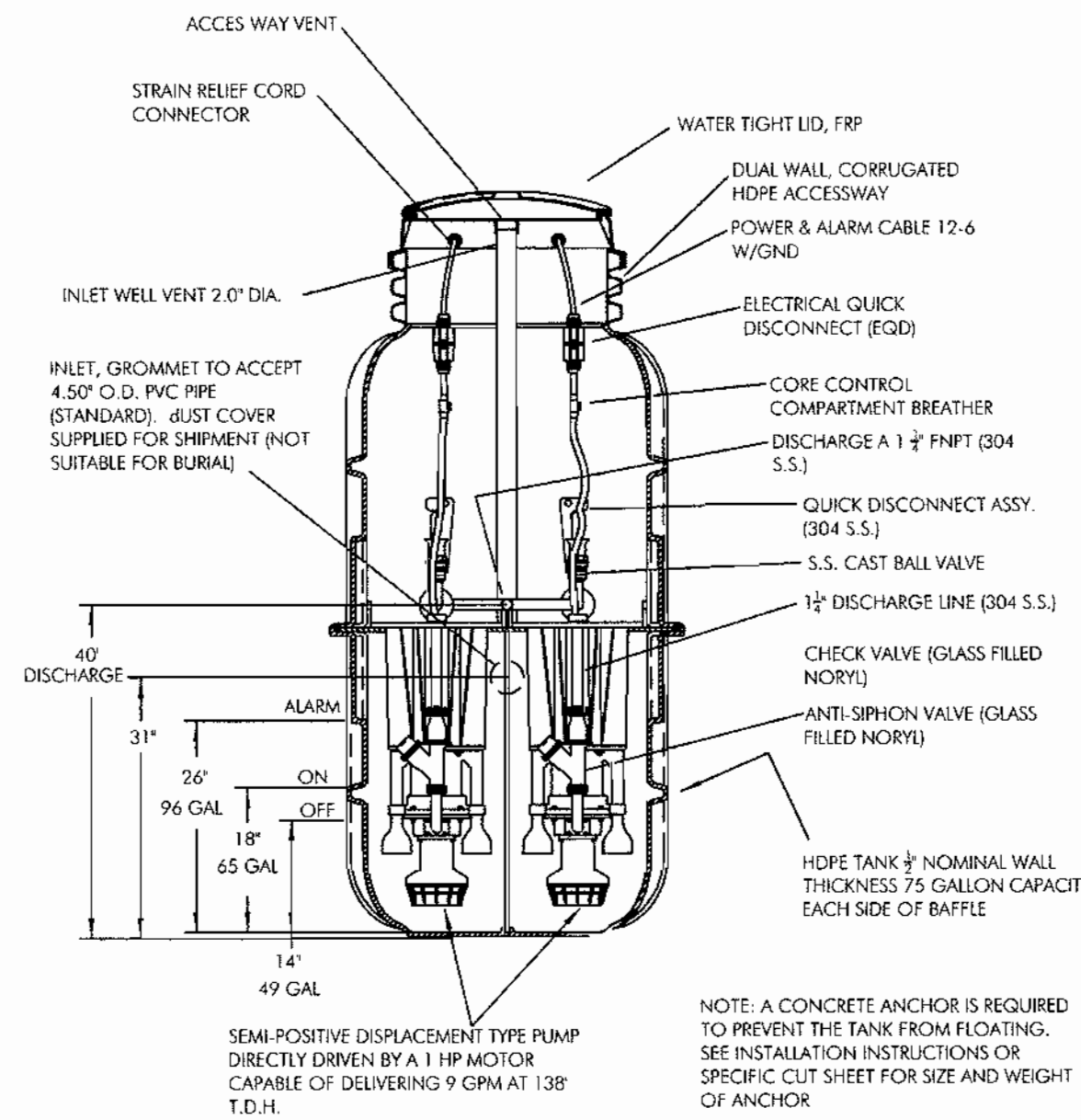
DETAIL SHEET

FRIENDSHIP LAKE SHARED SEPTIC SYSTEM

CONTRACT No. 60-3871-D
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

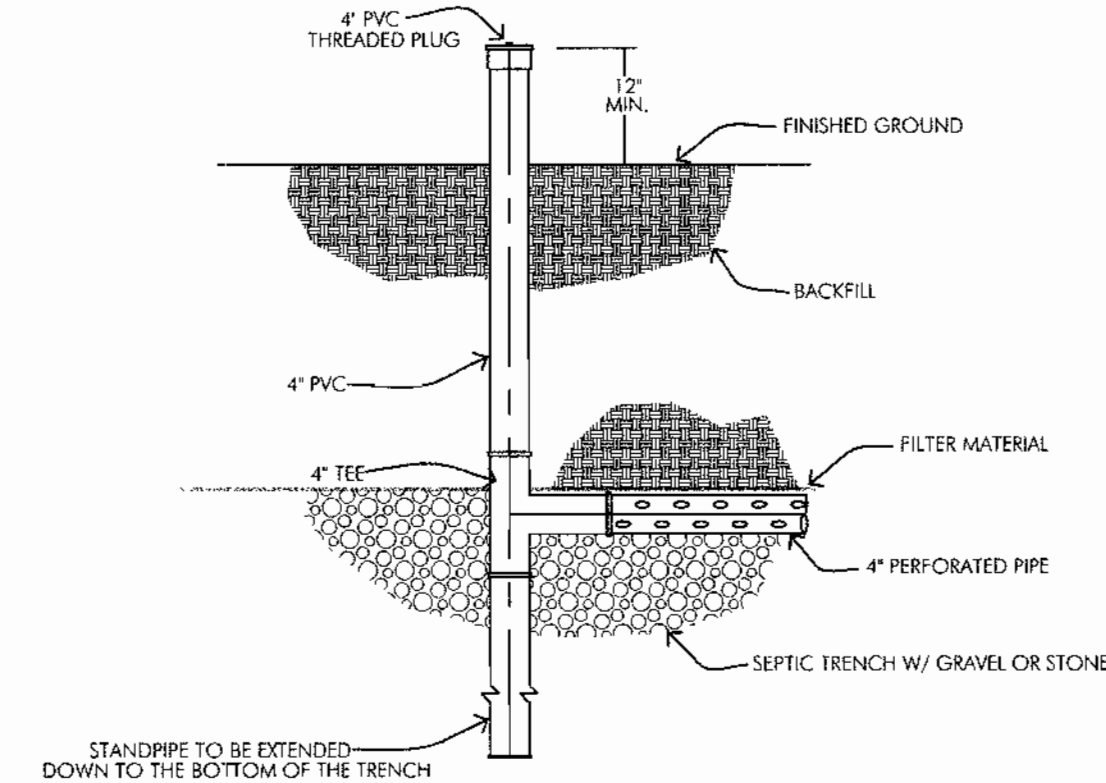
SCALE AS SHOWN
SHEET 4 OF 7

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS II THRU 14, PRESERVATION PARCEL "A" HOWARD COUNTY HEALTH DEPT.
Dawn K. Waters 01/10/01
 COUNTY HEALTH OFFICER DATE



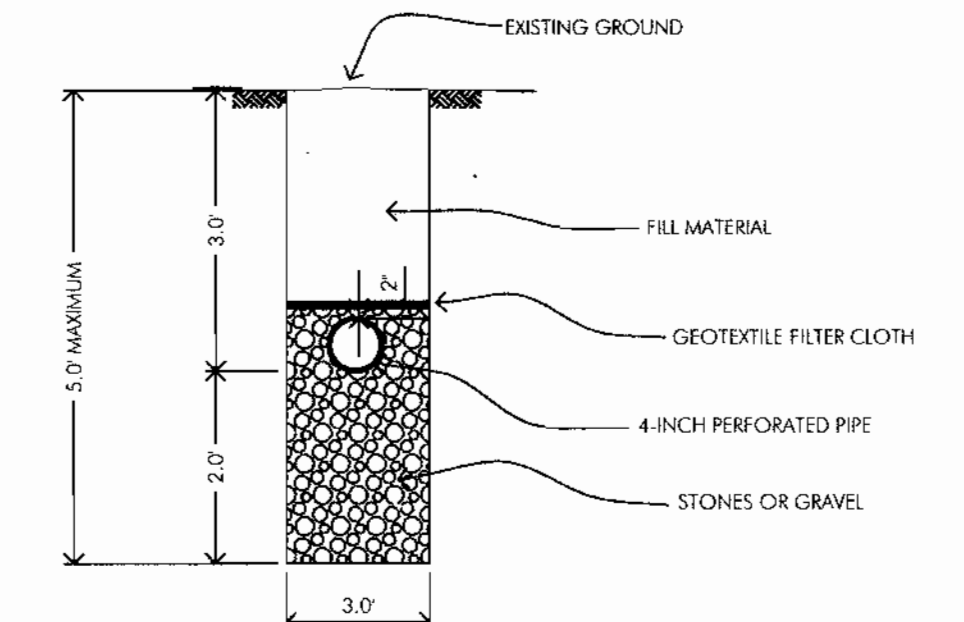
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NOT TO SCALE



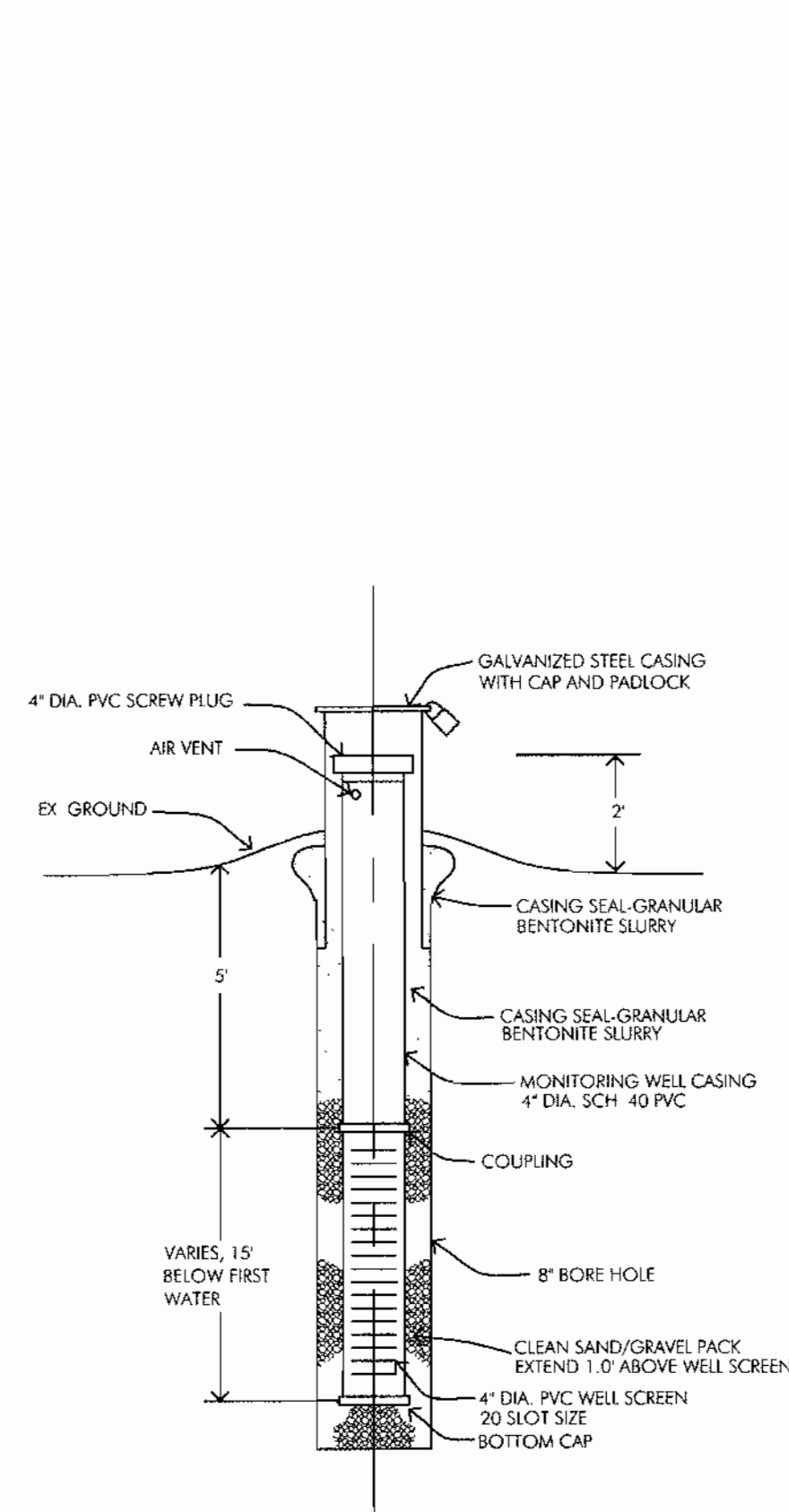
DISTRIBUTION LATERAL TERMINATION DETAIL

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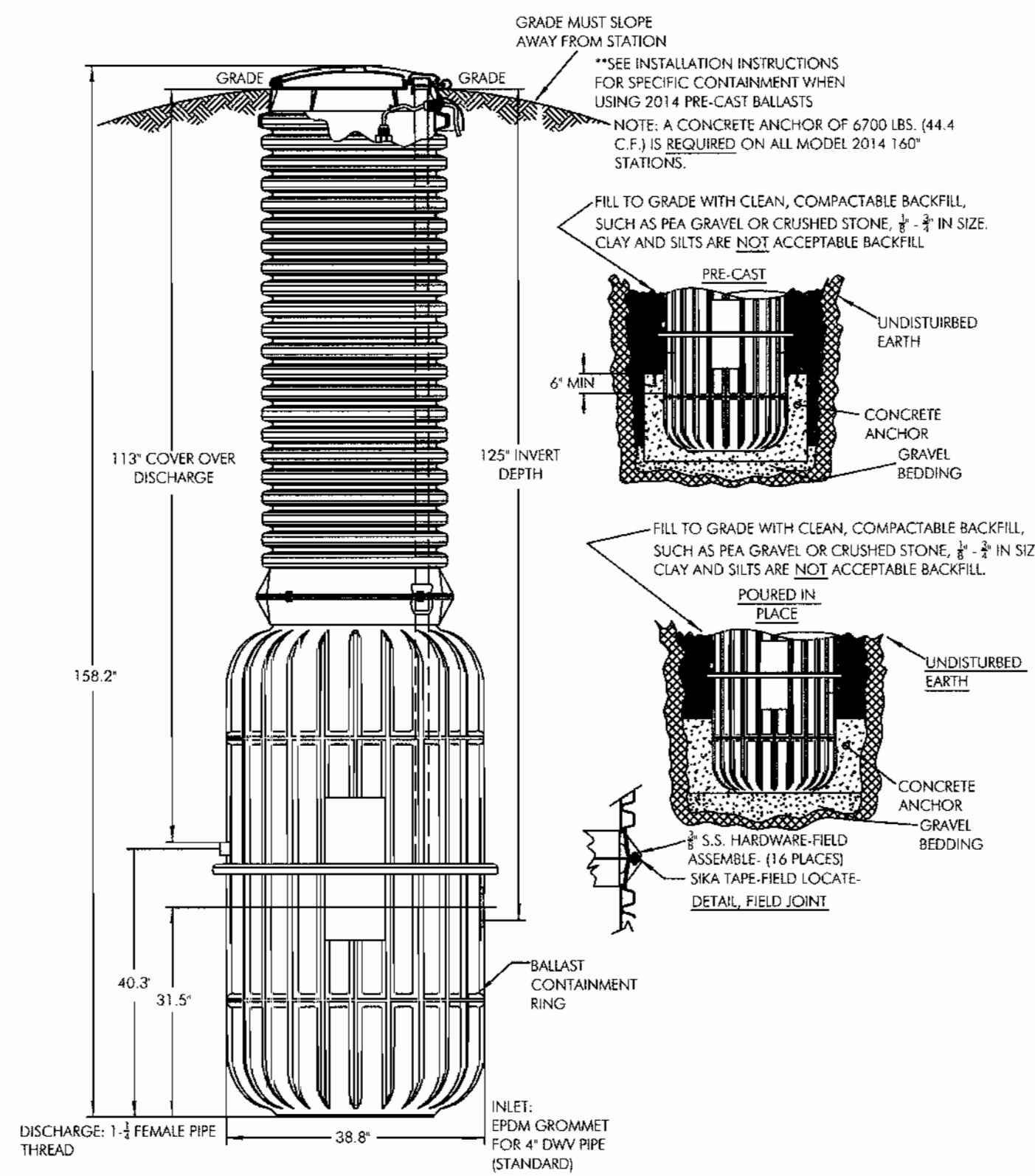
SEPTIC TRENCH DETAIL

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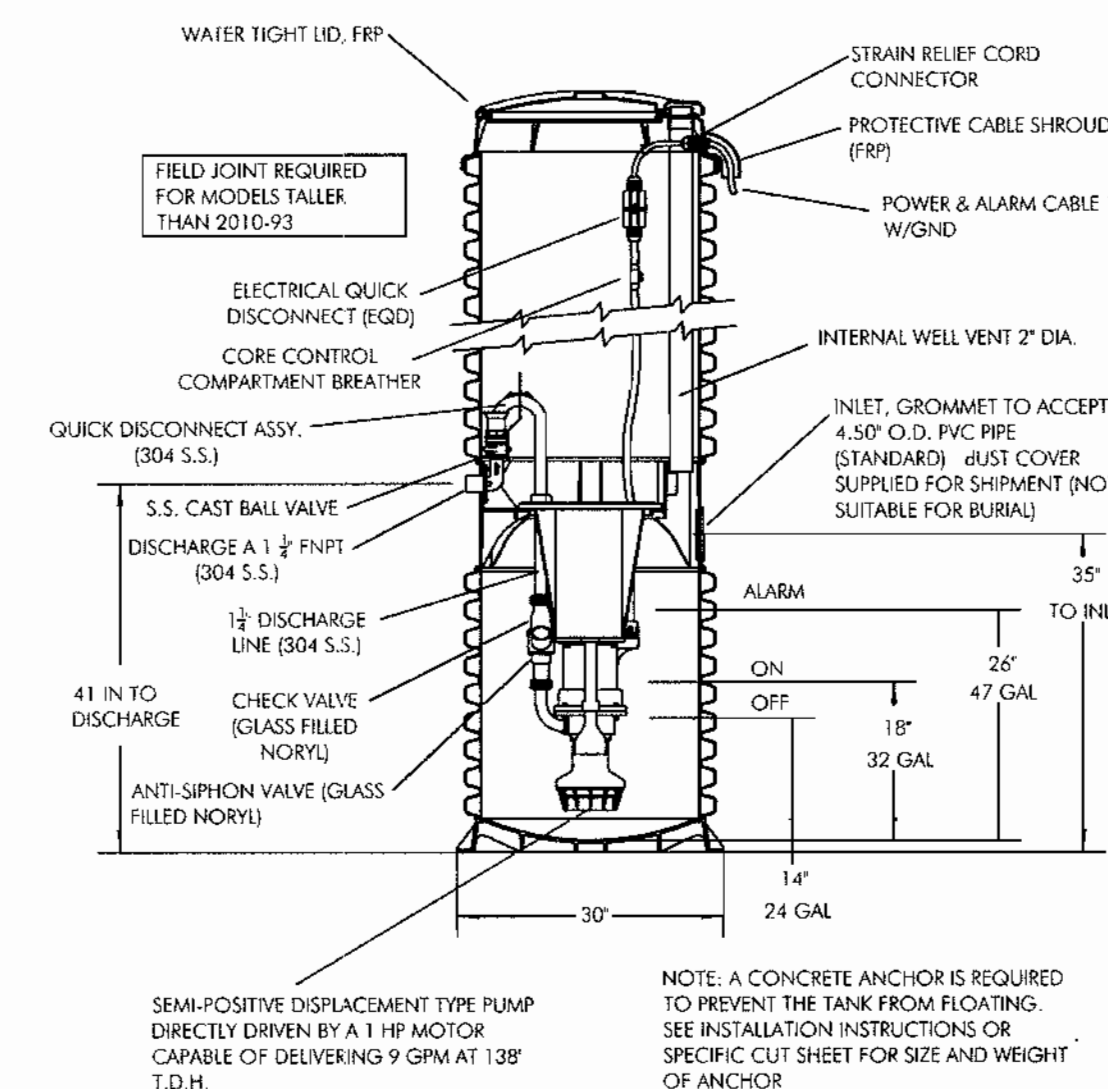
MONITORING WELL DETAIL

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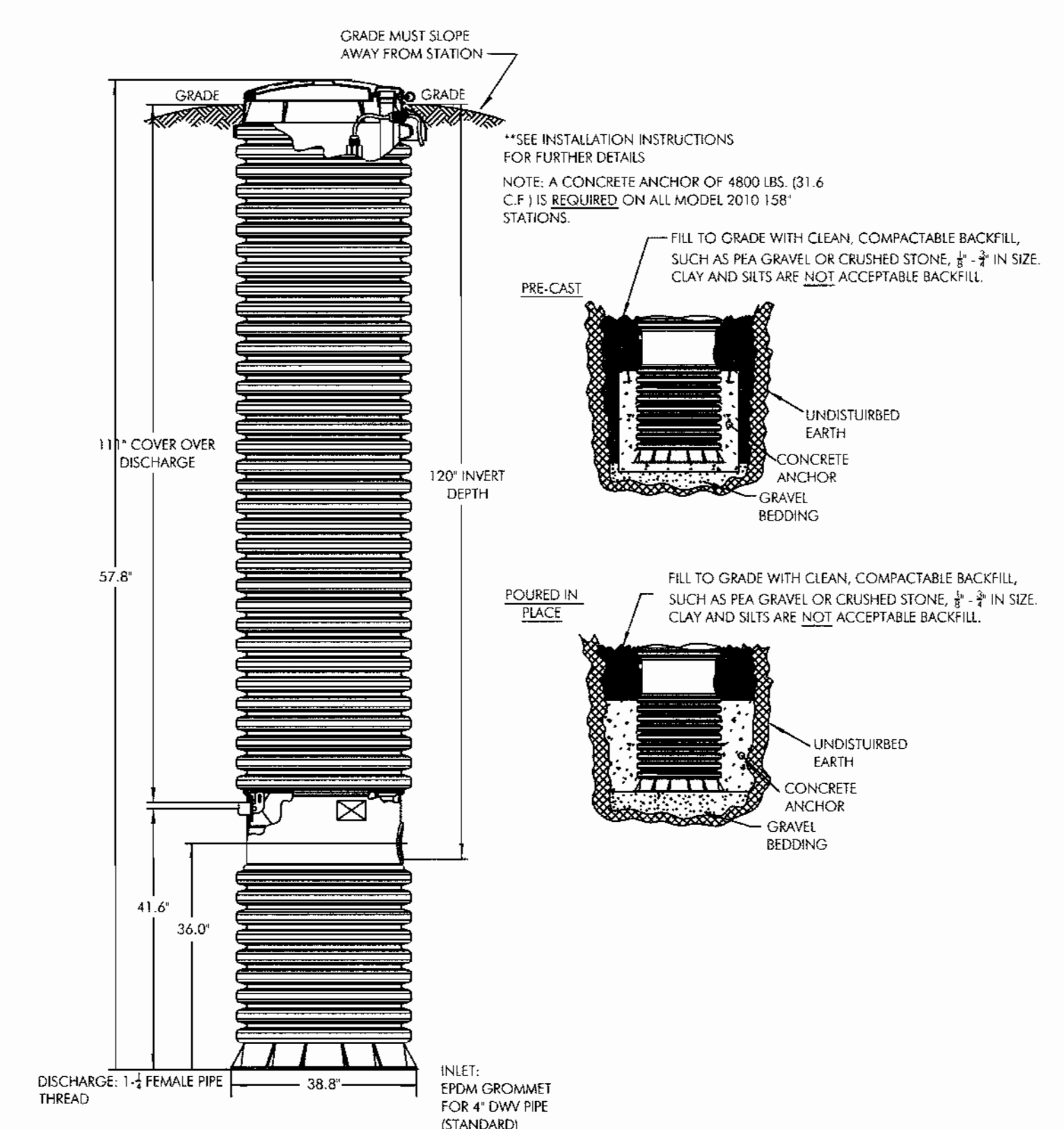
DUPLEX ENVIRONMENT ONE GRINDER PUMP MODEL 2014-160

NOT TO SCALE



SIMPLEX ENVIRONMENT ONE GRINDER PUMP MODEL 2010-158

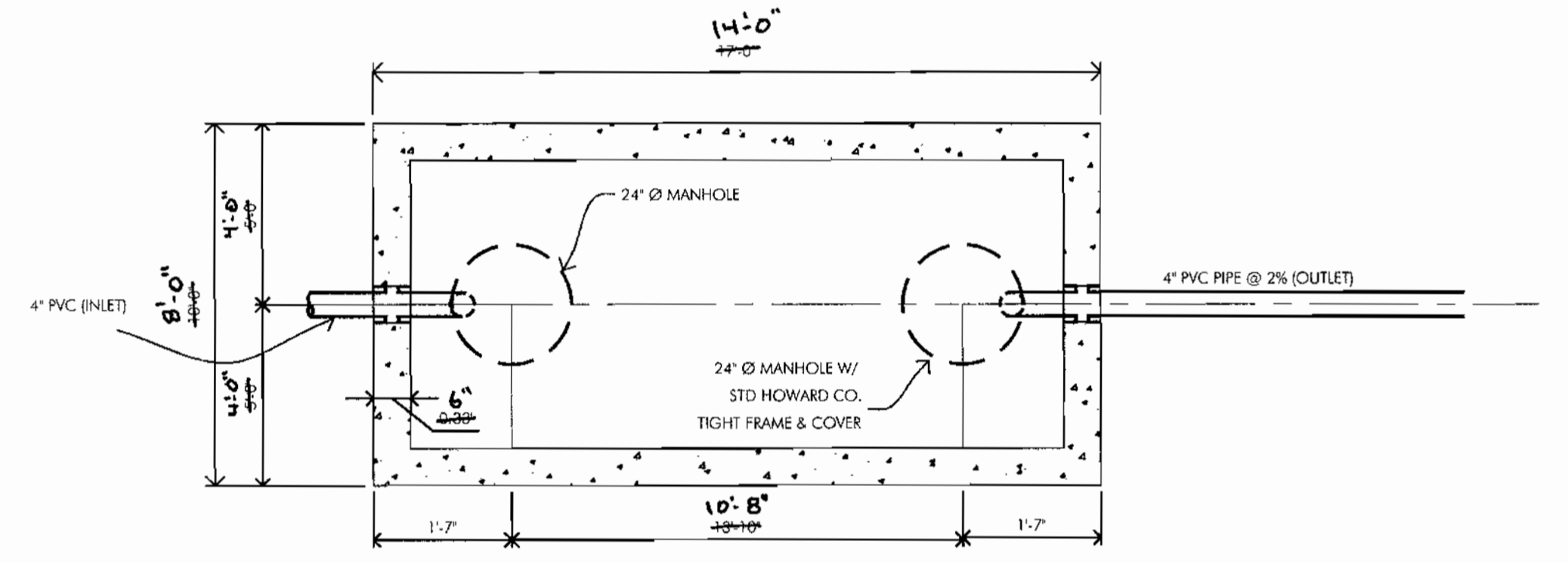
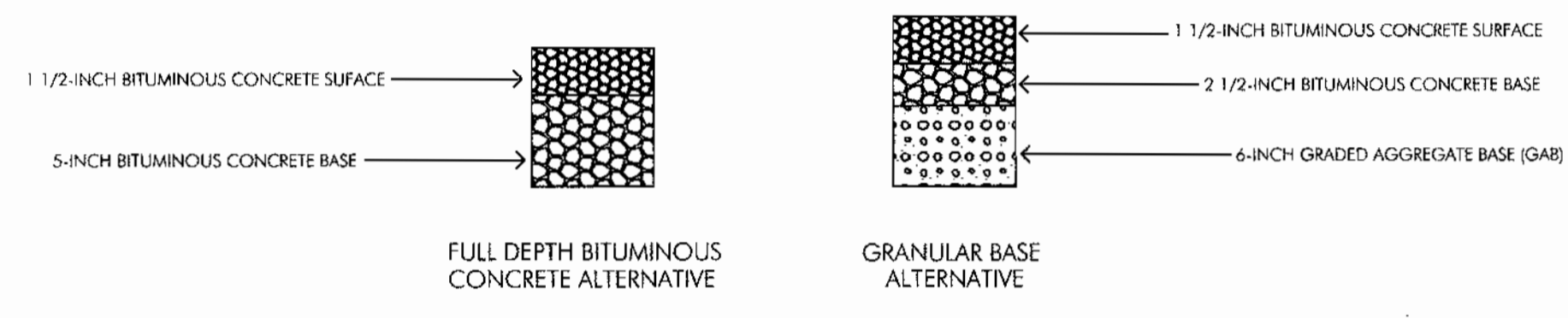
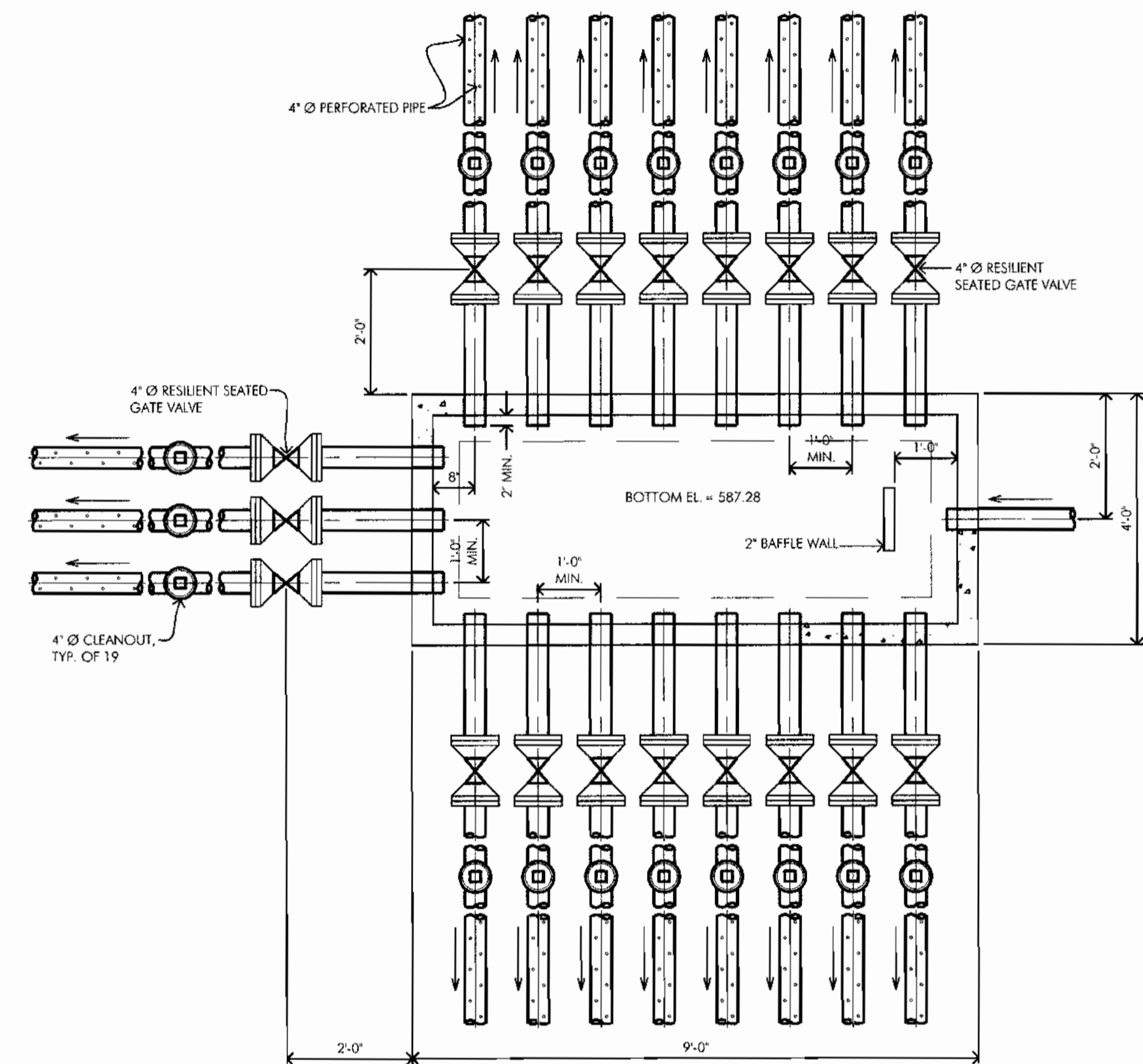
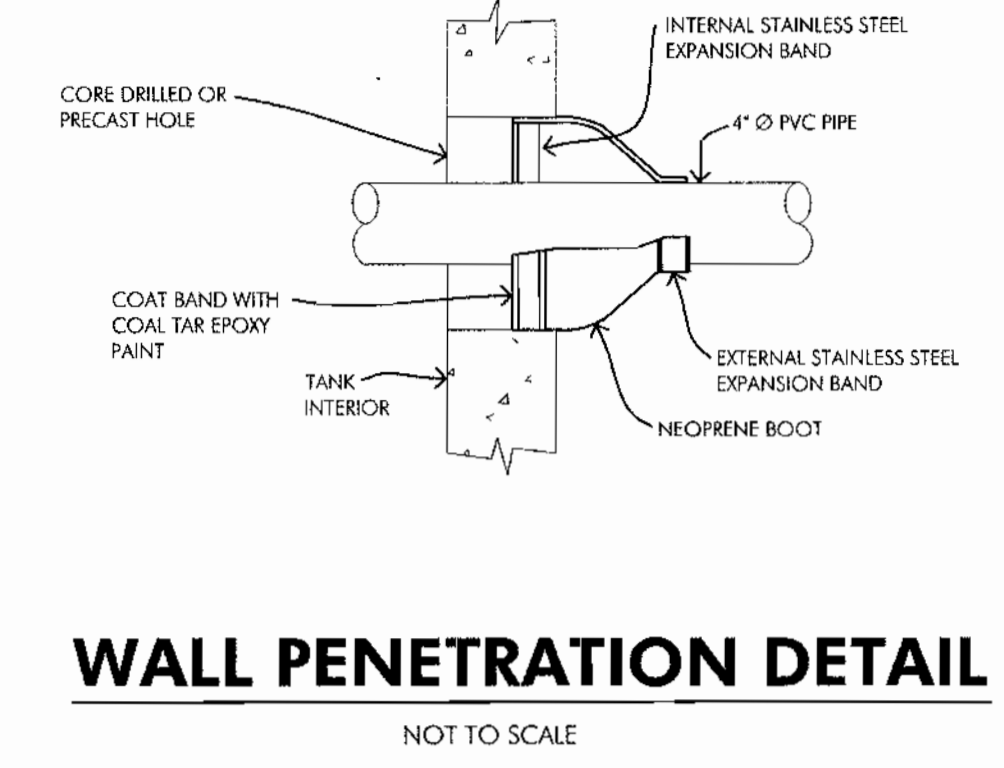
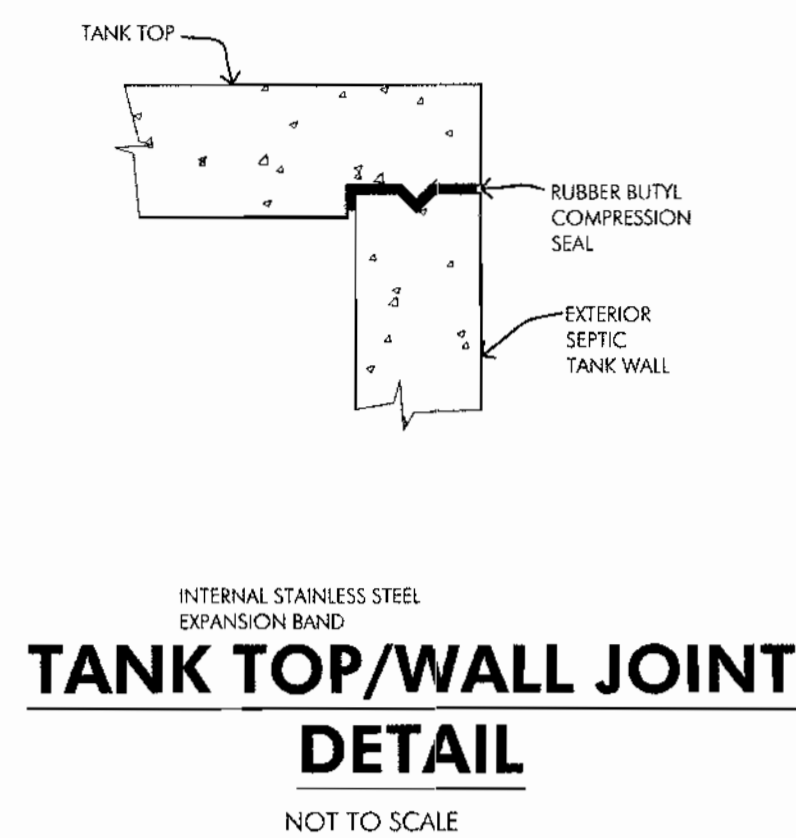
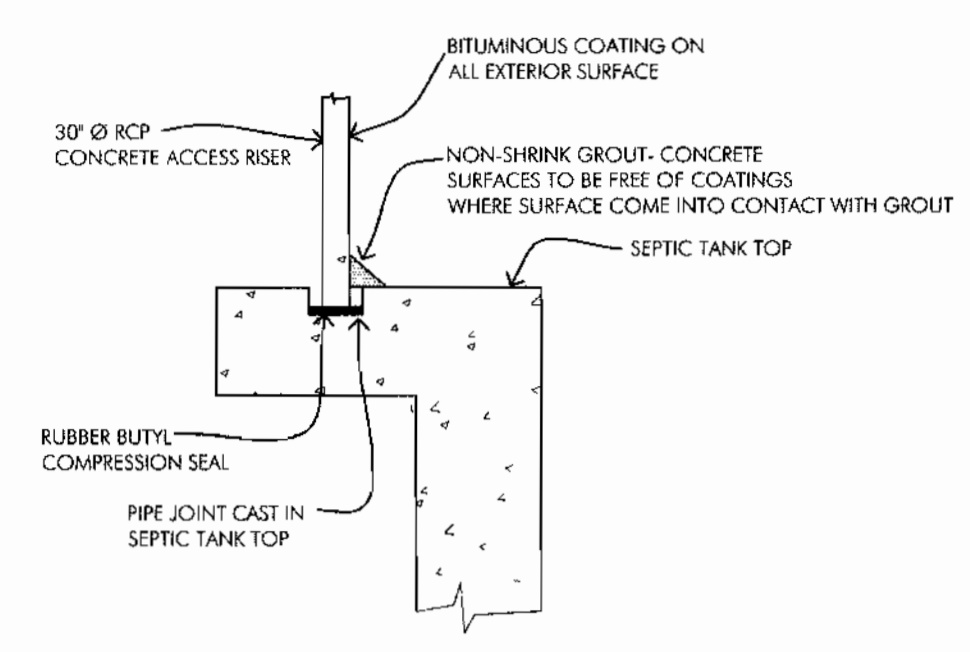
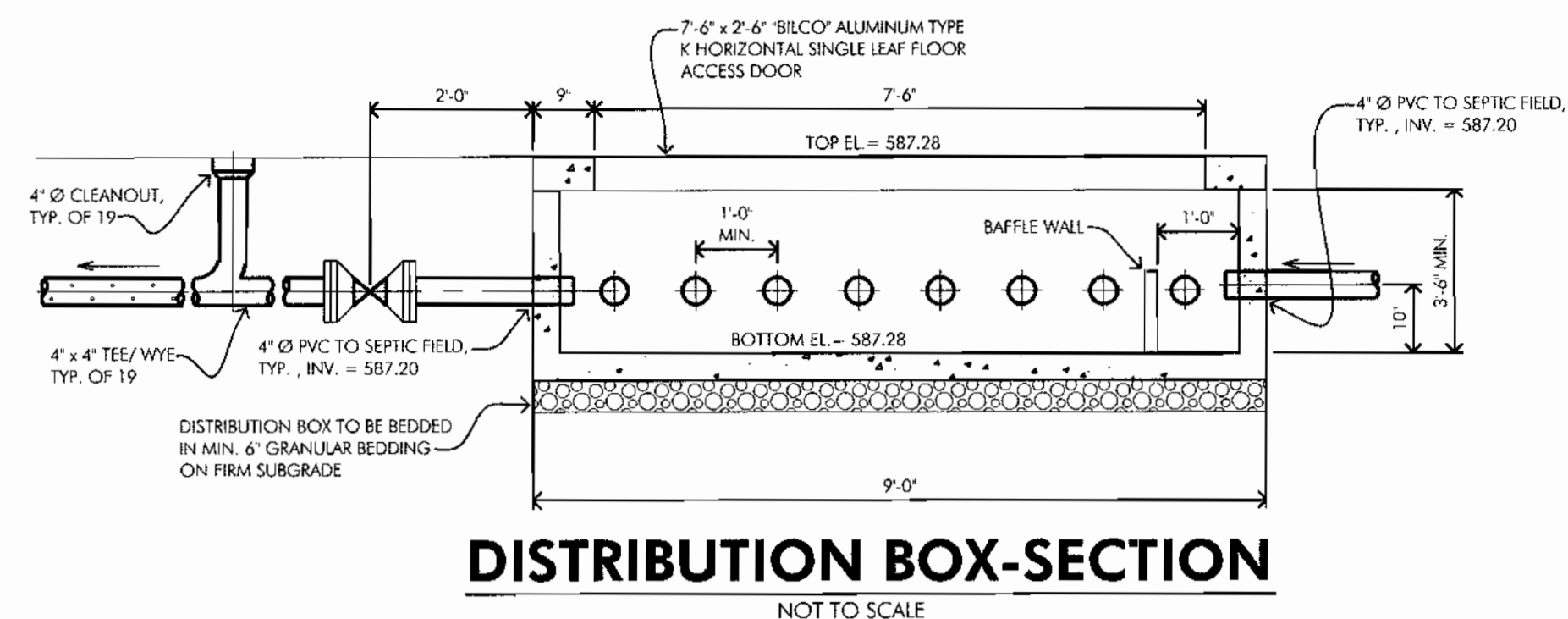
NOT TO SCALE



SIMPLEX ENVIRONMENT ONE GRINDER PUMP MODEL 2010-158

NOT TO SCALE

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS II THRU 14, PRESERVATION PARCEL "A" HOWARD COUNTY HEALTH DEPT.
John H. Blanton 01/10/02
 COUNTY HEALTH OFFICER DATE



DISTRIBUTION BOX COORDINATES DATA

BOX #	INLET SIDE	OUTLET SIDE
1	N 530455.24 E 800580.47	N 530462.63 E 800583.52

NOTE: TO INSURE EQUAL DISTRIBUTION TO LATERALS, PROVIDE "DIAL-A-FLOW" WHICH FITS IN THE OUTLET PORTS OF EACH LATERAL LEAVING THE DISTRIBUTION BOX. "DIAL-A-FLOW" SHALL BE AS MANUFACTURED BY AMERICAN MANUFACTURING COMPANY, INC., MANASSAS, VA.

TANK	TANK ELEVATION	INVERT ELEVATION	TANK COORDINATES	MANHOLE RIM ELEVATION	REMARK
TANK A	590.17 TOP	588.75 IN	N 530428.88 E 800592.27	592.83	DIMENSIONS ARE BASED ON ROTUNDO & SONS, INC. MODEL ST 6414-35
	583.00 BTM	588.50 OUT	N 530433.46 E 800591.18	592.82	
	590.17 TOP	588.75 IN	N 530443.64 E 800608.38	591.99	
TANK B	583.00 BTM	588.50 OUT	N 530448.25 E 800580.47	591.90	MODEL ST 6414-35

NOTES:
 1. MANHOLE RIM ELEVATIONS SHOWN HEREON ARE AT THE CENTER OF THE RIM
 2. TANK COORDINATES ARE AT THE MIDPOINT OF EACH END.

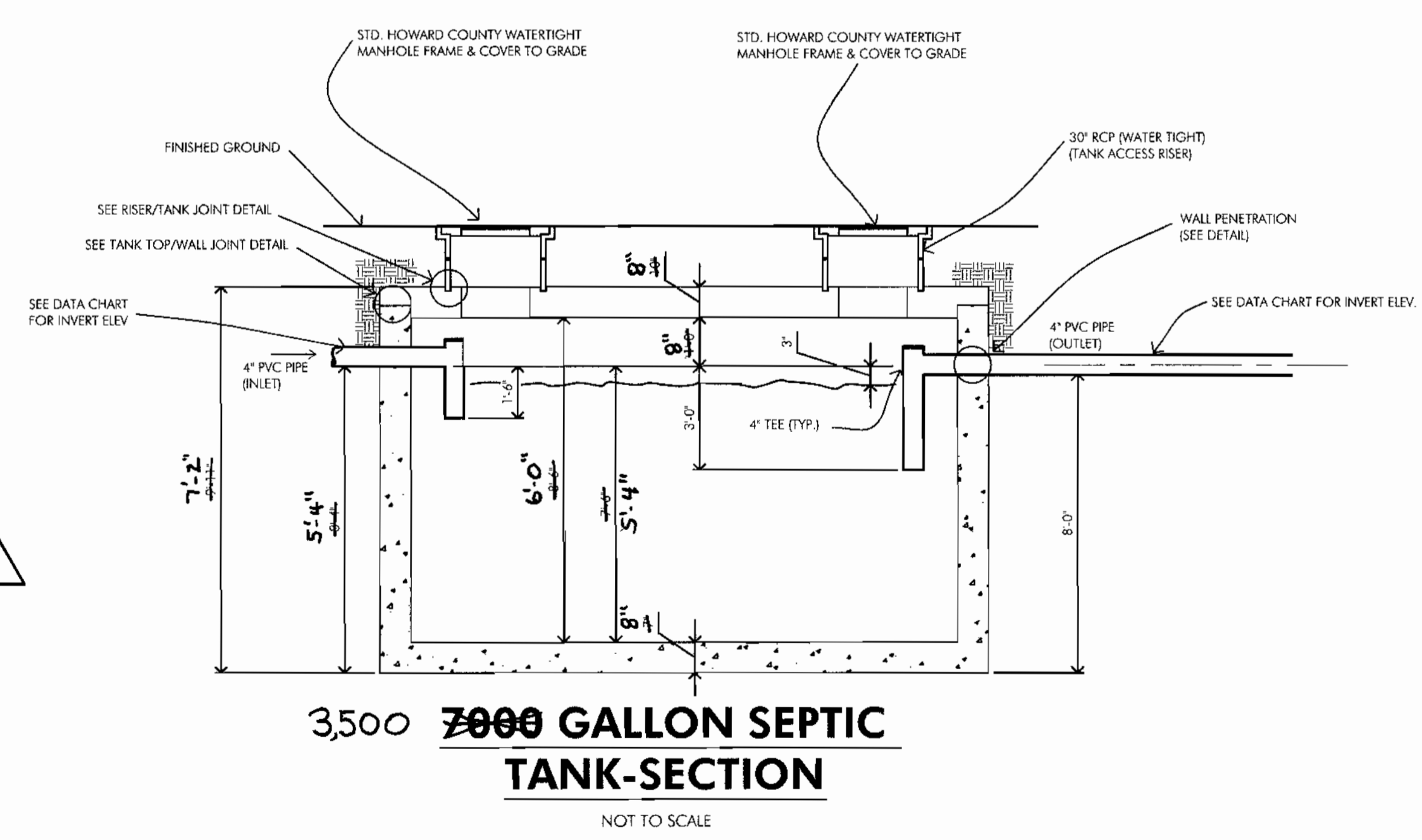
SEPTIC TANK SUMMARY

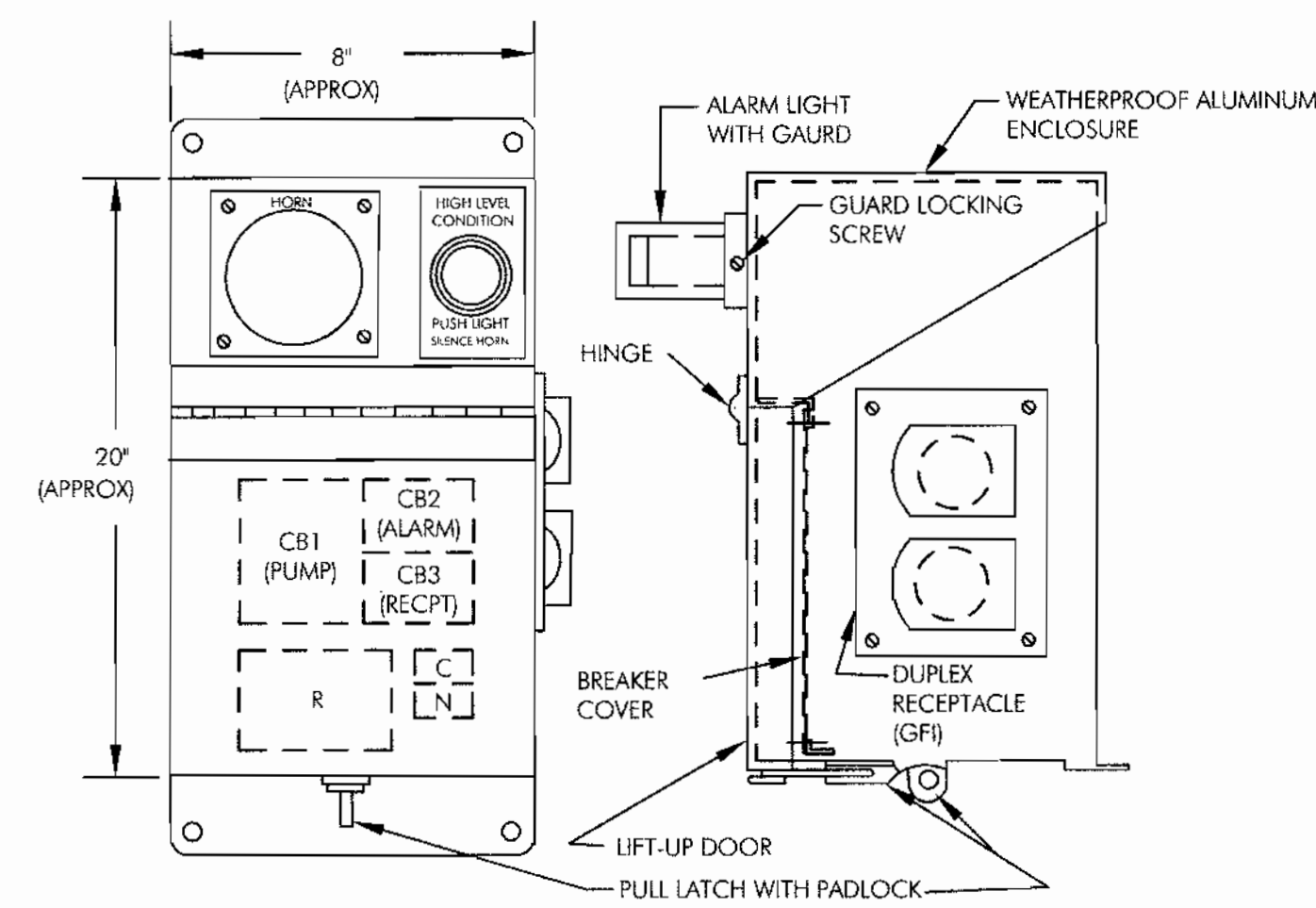
LOT NO.	TOP ELEVATION	BOTTOM ELEVATION	TOTAL LENGTH	INLET ELEVATION	DISCHARGE ELEVATION	VOL. OF CONCRETE FOR CONCRETE ANCHOR (C.F.)	REMARK
11/14	566.50	553.17	160	555.83	556.42	44.03	MODEL 214-160
12	554.50	541.33	158	544.25	544.75	32.92	MODEL 214-158
13	560.50	547.33	158	550.25	550.75	32.92	MODEL 214-158

GRINDER PUMP SUMMARY

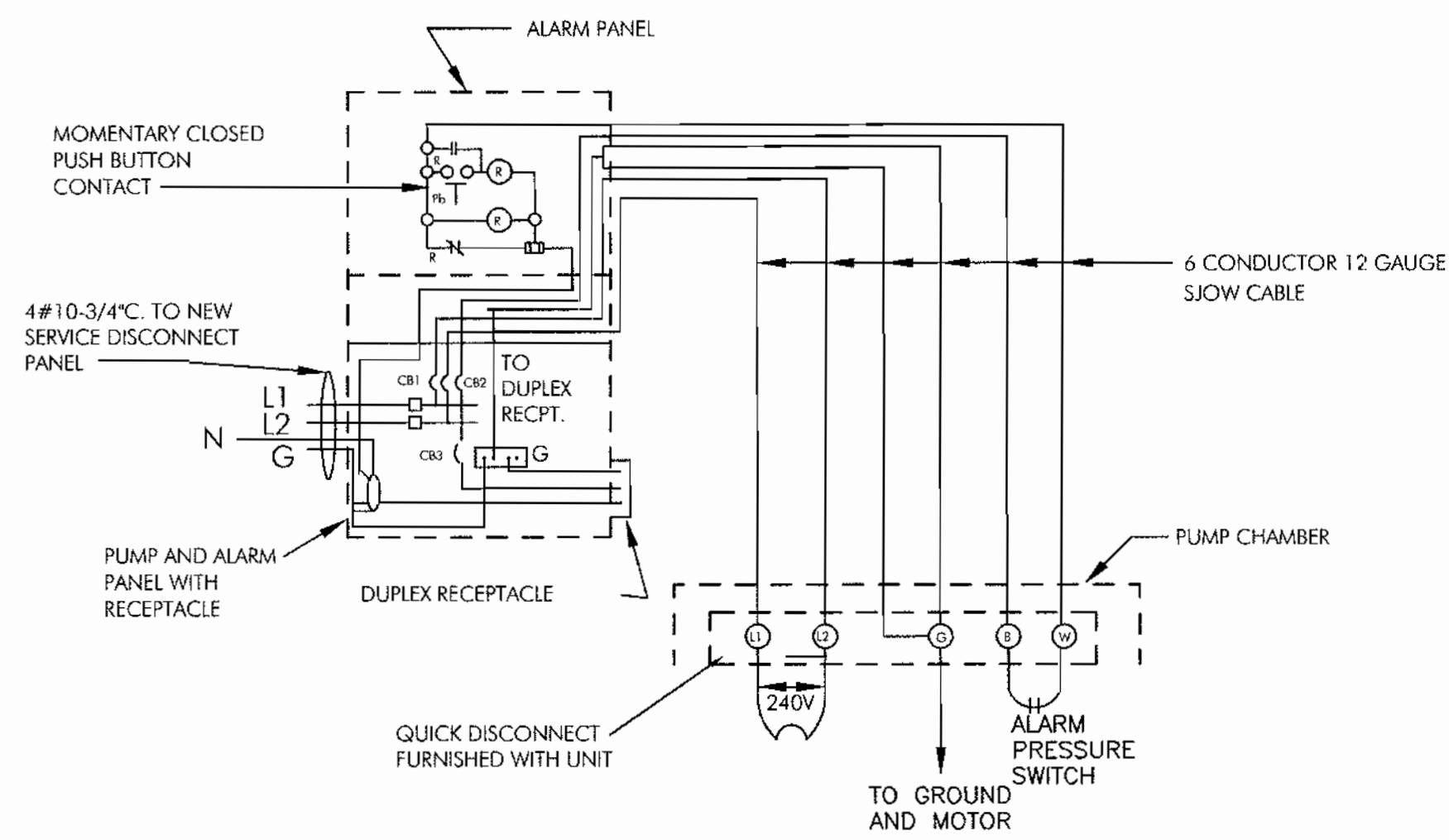
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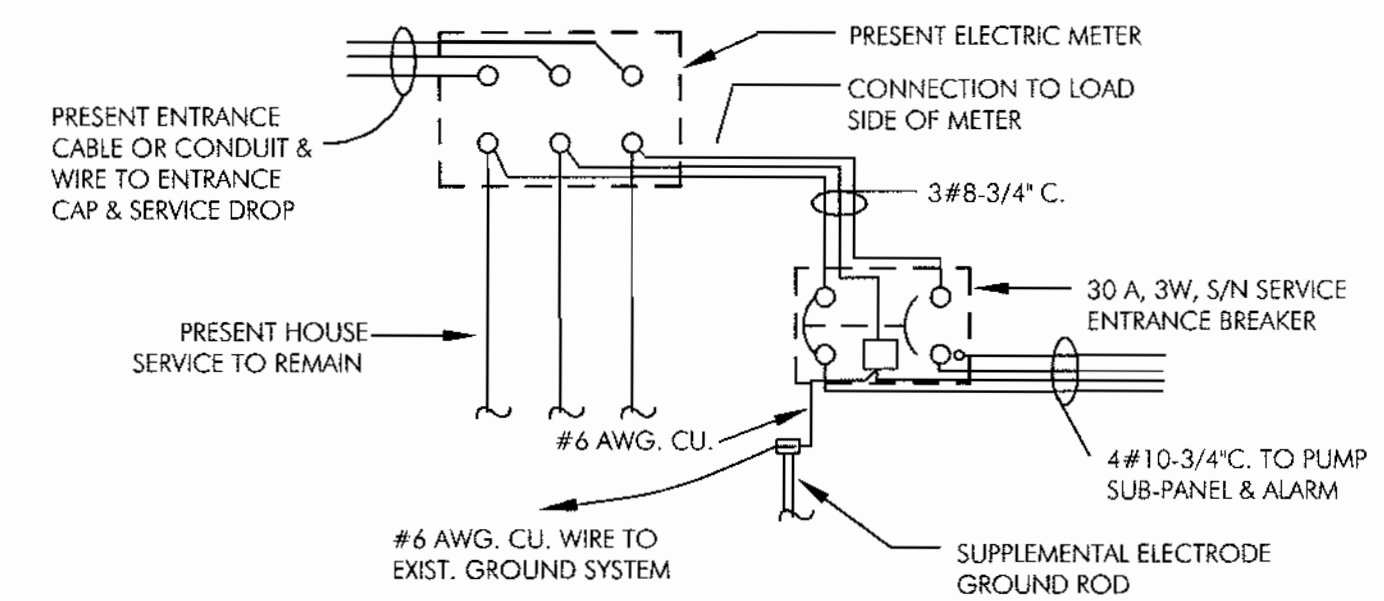




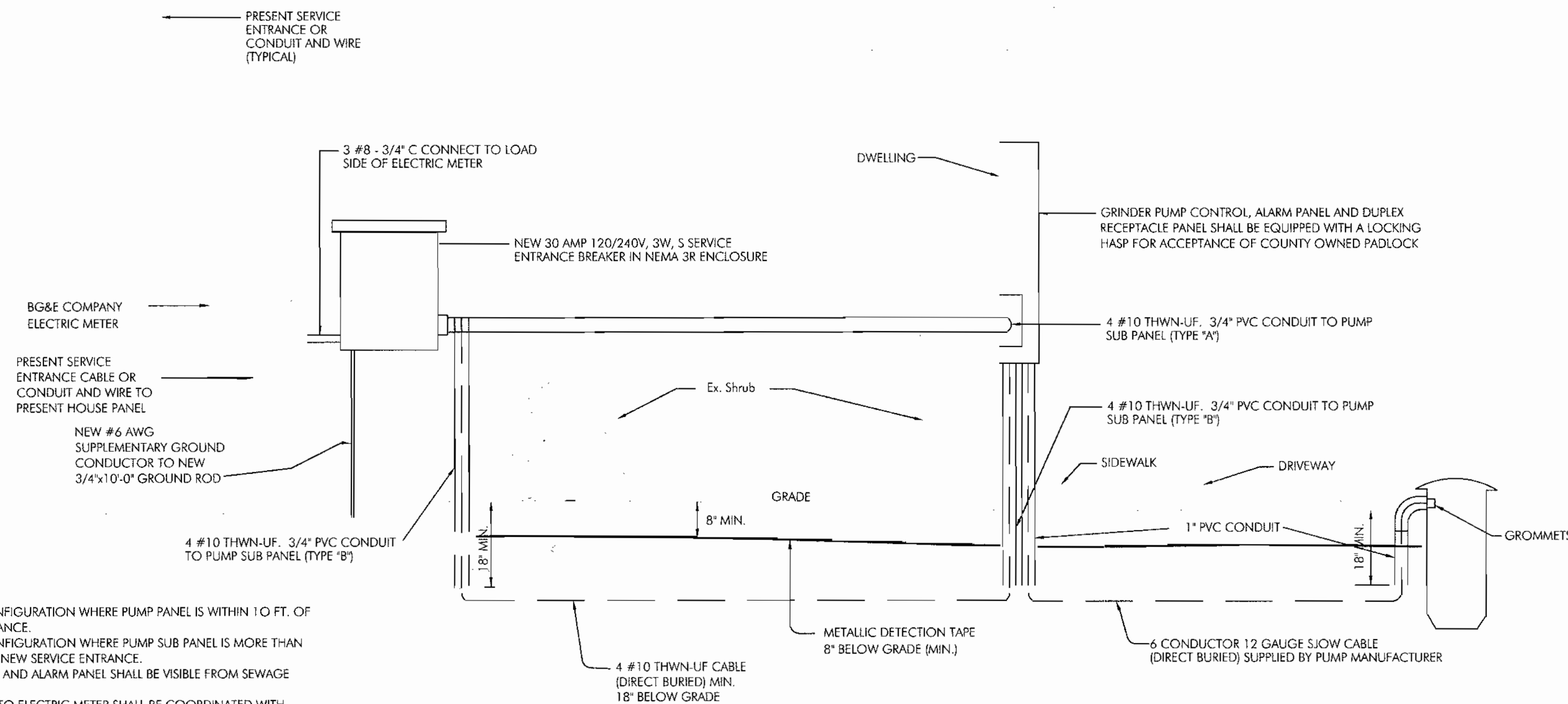
GRINDER PUMP CONTROL & ALARM PANEL
NOT TO SCALE



SEWAGE GRINDER PUMP WIRING DIAGRAM (240 v) TYPICAL EACH PUMP UNIT
NOT TO SCALE



NEW SERVICE ENTRANCE WIRING DIAGRAM
NOT TO SCALE



TYPICAL GRINDER PUMP ELECTRIC POWER
NOT TO SCALE

1. USE TYPE 'A' CONFIGURATION WHERE PUMP PANEL IS WITHIN 10 FT. OF NEW SERVICE ENTRANCE.
2. USE TYPE 'B' CONFIGURATION WHERE PUMP SUB PANEL IS MORE THAN 10 FT. AWAY FROM NEW SERVICE ENTRANCE.
3. PUMP SUB PANEL AND ALARM PANEL SHALL BE VISIBLE FROM SEWAGE GRINDER PUMP.
4. CONNECTIONS TO ELECTRIC METER SHALL BE COORDINATED WITH POWER COMPANY.
5. ALL PVC CONDUIT SHALL TERMINATE 18" BELOW GROUND.
6. PROVIDE LOCKING HASP ON SERVICE BREAKER FOR ACCEPTANCE OF COUNTY OWNED LOCK.

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS ON LOTS II THRU 14; PRESERVATION PARCEL, "A" HOWARD COUNTY HEALTH DEPT.
Diana H. [Signature] 01/18/02
COUNTY HEALTH OFFICER DATE