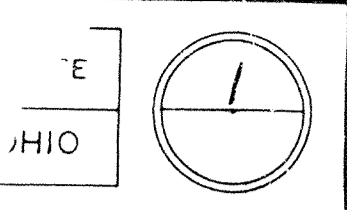


SANDYVILLE

COMM. NO.	
7443	SANL

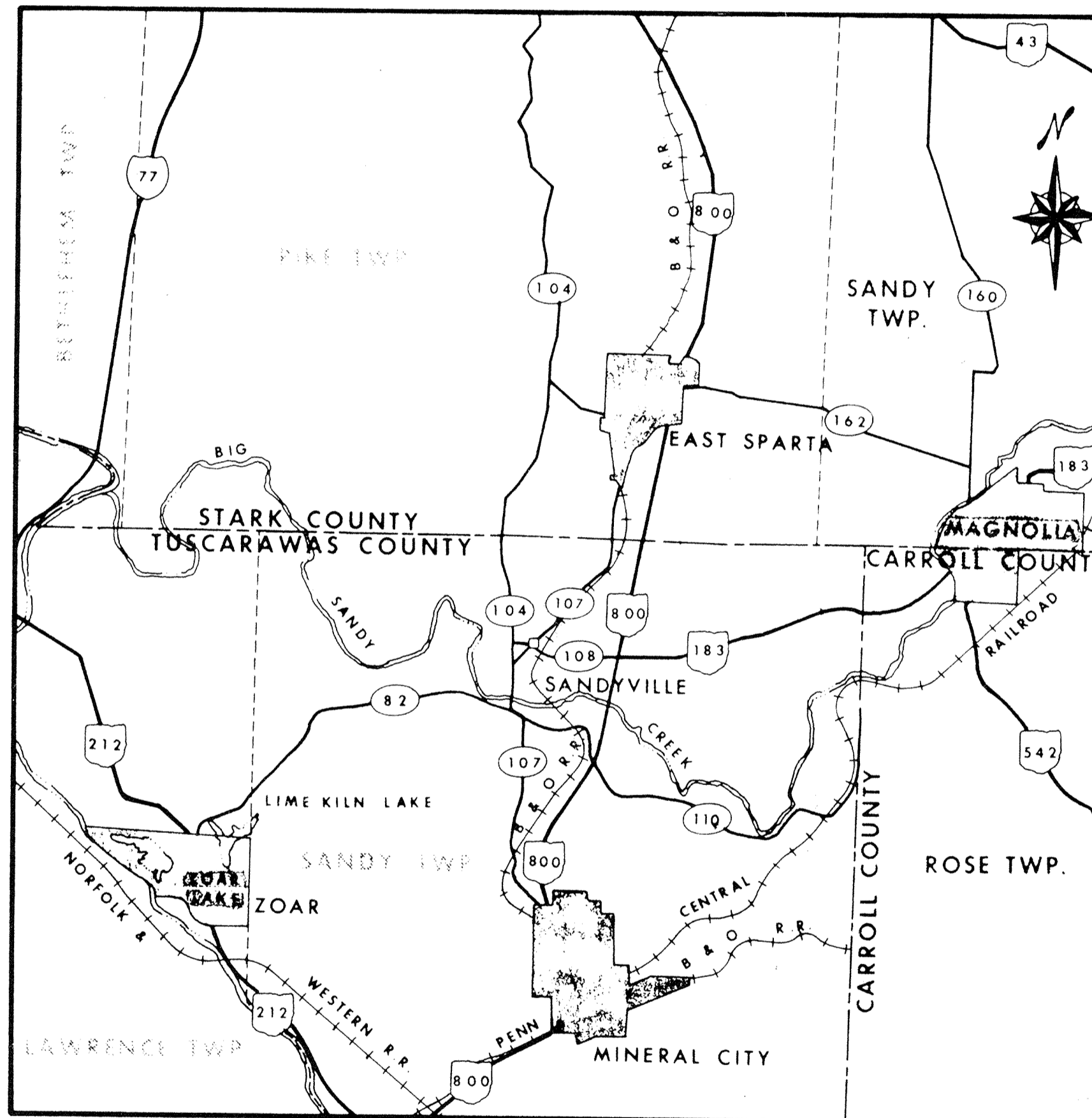


SANITARY SEWER COLLECTION SYSTEM

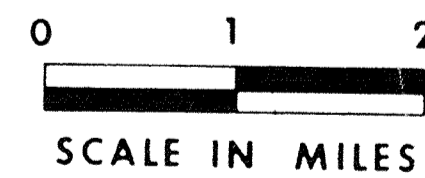
TUSCARAWAS COUNTY
OHIO

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LOCATION MAP



TUSCARAWAS COUNTY COMMISSIONERS

WILLIAM F. HANEY, PRESIDENT
WILLIAM E. WINTERS
JOANNE LIMBACH
EDITH BAIR, CLERK

TUSCARAWAS COUNTY ENGINEER

EDWARD GASSER

STARK COUNTY COMMISSIONERS

VIRGIL MUSSER, PRESIDENT
ROBERT C. SCHIRACK
NORMAN W. SPONSELLER, VICE PRESIDENT

STARK COUNTY SANITARY ENGINEER

WILLIAM VEROSKI

STARK COUNTY CLERK AND ADMINISTRATOR

WILLIAM KEEN

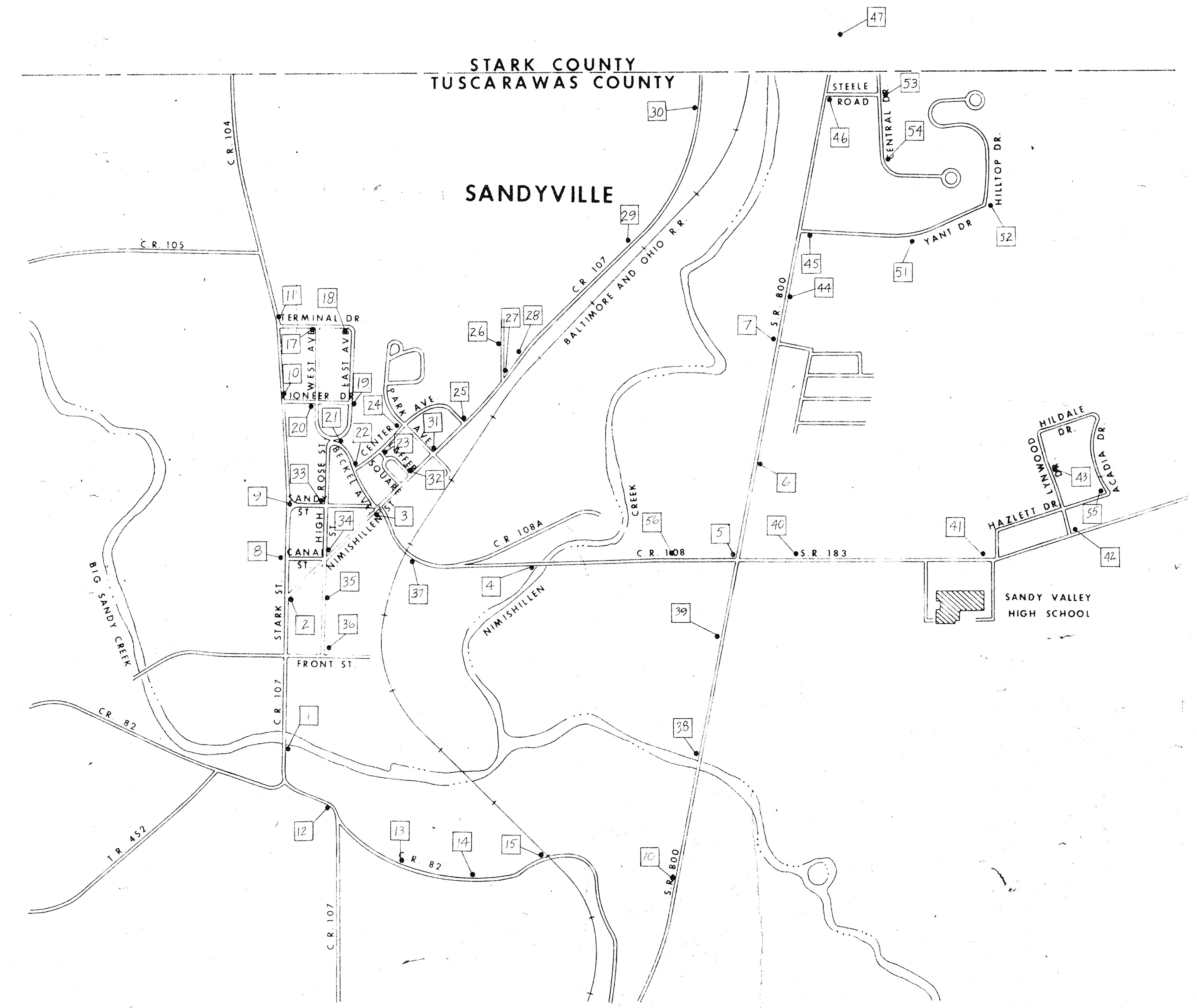
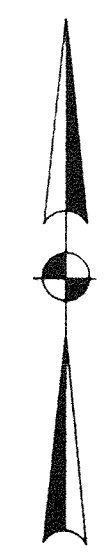
THESE PLANS ARE HEREBY ACCEPTED AND APPROVED FOR CONSTRUCTION

SIGNED _____ (VIRGIL MUSSER) DATE _____
 SIGNED *Robert C. Schirack* (ROBERT C. SCHIRACK) DATE 6-21-77
 SIGNED *Norman W. Sponseller* (NORMAN W. SPONSELLER) DATE 6-21-77
 SIGNED *William Veroski* (WILLIAM VEROSKI) DATE 6/21/77

PREPARED AND RECOMMENDED BY
W.E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS
NEW PHILADELPHIA, OHIO

CONSTRUCTION PLANS
DATE FEB 20 1979

- Sewers -



BENCH MARK LOCATIONS

(NO SCALE)

LEGEND

□ APPROXIMATE BENCH MARK NUMBER LOCATION

FOR BENCH LIST SEE SHT. NO. 4

BENCH LIST

COMM. NO.	PROJECT	STATE
74 43	SANDYVILLE	OHIO



Number	Elevation	Description	Number	Elevation	Description	Number	Elevation	Description
1	923.15	Sandyville - .4 mile south of; std. tablet stamped 925 - in east end of south concrete bridge seat, steel girder bridge over Sandy Creek. (925.154) /	21	969.80	Small boat spike in west side of power-telephone pole 52/14 at the east corner of East Ave. and Beckel Ave.	41	980.67	P.K. nail in south side of power-telephone pole 988C2/21 O.P. Co. on north side of S.R. 183 opposite east end of Sandy Valley High School.
2	944.24	P.K. nail in power pole 988A2/94, east 20' of intersection of C.R. 104 and C.R. 107, south end of Sandyville.	22	969.58	Chiseled square in center of west end of concrete sidewalk at the east corner of Center St. and Beckel Ave. intersection.	42	986.78	Small boat spike in west side of power-telephone pole 988C2-28 O.P. Co. at north east corner of S.R. 183 and Lynnwood Drive; 1000'± east of Sandy Valley School.
3	970.26	Top of northwest nut of concrete sign base; 75'± southeast of intersection of C.R. 107 and C.R. 108 in Sandyville.	23	972.04	Chiseled square on corner of northwest end of first concrete step into Sandy Township Hall (Precinct #2) at the east corner of Center St. and Laffer Square.	43	930.83	60 d wt. spike in east side of power pole 988C1-4 (with transformer) on west side of Lynnwood Drive 400'± north of Hazlett Drive, 800'± north of S.R. 800.
4	948.96	Chiseled square on southwest corner bridge abutment, 1200'± east of Sandyville and west of S.R. 800.	24	971.92	Chiseled square in center of northwest end of concrete sidewalk at the south corner of Center St. and Park St.	44	952.97	Chiseled square on top of upstream end of 48" concrete pipe, on east side of S.R. 800, 500'± north of Sandy Valley Estates entrance.
5	967.51	Mine spike in power-telephone pole (no number) at northwest corner of intersection of S.R. 800 and C.R. 106.	25	974.29	Small boat spike in southeast side of power-light pole (no number) at the north corner of Nimishillen St. (C.R. 107) and Center St.	45	954.30	60 d wt. spike in west side of power pole 964D2/41 O.P. Co.; 100'± east of S.R. 800 and on south side of Hilltop Drive.
6	966.94	Southwest corner of stone outside sign at Church of God; 75'± east of S.R. 800 & 900'± north of crossroads.	26	963.32	P.K. nail in west side of transformer pole (no number) at the southwest corner of drive and Steele Ave. 500'± north of Nimishillen St. (C.R. 107).	46	956.61	P.K. nail in north side of light pole 964D1/46 O.P. Co. at the south east corner of S.R. 800 and Steele Drive, 200'± south of Stark-Tuscarawas County Line.
7	964.34	Mine spike in power pole (no number) 30'± west of S.R. 800 at Sandy Valley Estates sanitary system plant; 5'± north of cyclone fence. (Sandy Valley #2).	27	972.50	60 d wt. spike in southeast side of power-telephone pole 988A1/25 at the northeast corner of Nimishillen St. (C.R. 107) and Steele Ave. 40'± east of the Greenhouse.	47	962.41	Chiseled square on north east corner of headwall of 6' x 6' concrete box culvert under S.R. 800; 400'± north of Stark-Tuscarawas County Line.
8	954.78	Small boat spike in south side of transformer pole no. 986A2/97; west of Ridge Road (C.R. 104) opposite Canal St.	28	962.40	Chiseled square on top of the southwest wingwall of concrete culvert on the northwest side of C.R. 107; 400'± northeast of Steele Avenue.	48	967.40	P.K. nail in south side of light pole 964D1/48 O.P. Co. at the north east corner of S.R. 800 and Maycrest Drive, entrance to Ferndale.
9	966.28	Small boat spike in east side of power pole 988A1/52 O.P. Co. at Ridge Road (C.R. 104) and Sandy St. (C.R. 108) intersection.	29	930.91	60 d wt. spike in southeast side of power pole 964/120 on northwest side of C.R. 107; at top of grade, 1200'± northeast of the northeast edge of Sandyville.	49	973.97	Chiseled square on northwest corner of concrete slab for "Monkey Bars" at south east corner of Maycrest and Rice-land in Ferndale; 400'± east of S.R. 800.
10	981.67	Small boat spike in east side of power-light pole 988 A1/6 O.P. Co. at east edge of Ridge Road (C.R. 104), 60'± north of Pioneer Drive.	30	972.00	P.K. nail in root on southwest side of 10" Red Oak on northwest side of C.R. 107; halfway up grade, 600'± south of East Sparta Ceramic Tile Plant.	50	967.35	Chiseled square on top of the southwesterly concrete post at culvert at north west corner of Maycrest and Vally Dale in Ferndale.
11	985.26	P.K. nail in east side of power-light pole 46/24 1/2 on east side of Ridge Road (C.R. 104), 75'± north of Terminal Road at the north edge of Sandyville.	31	974.14	Chiseled square in center of the end of sidewalk at the north corner of Nimishillen St. (C.R. 107) and Park St.	51	988.02	60 d wt. spike in north side of power pole 964D2 O.P. Co.; High voltage lines, at angle point in Hilltop Drive; 900'± east of S.R. 800.
12	937.72	High point, with chisel mark on wing wall at junction of headwall of culvert, west side of C.R. 107; 100'± west of C.R. 107 and C.R. 82 intersection.	32	972.15	Chiseled off square at the inside corner of sidewalks at the north corner of Nimishillen Street (C.R. 107) and Laffer Square, 100'± southeast of Post Office.	52	1046.55	P.K. nail in north side of power pole 964D2/26 O.P. Co. (transformer pole); 35'± southeast of a residence and north of "Y" in field drives; 150'± east of Hilltop Drive, at top of hill.
13	1025.30	Small boat spike in north side of power-telephone pole 988/500 O.P. Co. 101/36, with brace pole at end of fence, at top of hill on north side of C.R. 82; 800'± southwest of C.R. 107.	33	968.55	P.K. nail in east side of light pole (no number) at the northwest corner of Sandy St. (C.R. 108) and Alley (High Street) north and south; 450'± west of C.R. 107 and C.R. 108 intersection in Sandyville.	53	984.79	P.K. nail in west side of power pole 934D1/15 O.P. Co. beside gas meter on east side of Center Drive opposite Steele Drive; 500'± east of S.R. 800.
14	1001.55	Tuscarawas County Bench Mark in west end of the north headwall on north side of C.R. 82, 1100'± east of C.R. 107 200'± north east of pond at a park on south side of C.R. 82.	34	956.67	Chiseled square in center of end of sidewalk at the corner of Nimishillen St. (C.R. 107) and Alley (High Street) north and south; 500'± southwest of the C.R. 107 and C.R. 108 intersection in Sandyville.	54	981.66	P.K. nail in west side of power pole 964D2/1 O.P. Co. High voltage lines running north and south inside of curve on Center Drive, 500'± south of Steele Drive.
15	969.57	Chiseled square at the south corner of the southeast end of the southwest headwall of R.R. culvert, 35'± north-west of C.R. 82.	35	951.85	Chiseled square on top of concrete step at the southwest corner of the abandoned Sandy Twp. School, on High St. in Sandyville.	55	1004.89	Top of iron pin property monument (concreted) (in to 4" V.S.P.) at the north west corner of Hazlett Drive and Acadia Drive; 400'± east of Lynnwood Drive.
16	950.44	Small boat spike in west side of telephone pole 101/11, with brace pole on west side of S.R. 800 & 40'± south of drive, to the west, 300'± northwest of Sandy Valley Inn.	36	942.69	Top of 1 1/2" pipe in old concrete steps at the north-east corner of Front St. and High Street.	56	967.21	Small mine spike in north side of power-telephone pole 23/107 on south side of C.R. 108 at top of grade; 700'± west of S.R. 800; end pole with guy wire.
17	985.60	P.K. nail in east side of light pole 988A1/140 O.P. Co. at southwest corner of Terminal Road and West Ave.	37	965.02	P.K. nail in northeast side of power pole 23/108 at the south corner of C.R. 108 and drive 100'± southeast of the R.R. Crossing at the southeast edge of Sandyville.			
18	986.91	Small boat spike in east side of light pole 968A1/150 O.P. Co. at the southwest corner of Terminal Road and East Avenue.	38	955.62	Chiseled square on southwest corner of top step of abutment at the southwest corner of bridge on S.R. 800 over Sandy Creek; 1800'± south of S.R. 183 intersection.			
19	985.07	Small boat spike in west side of light pole 988A1/114 O.P. Co. on east side of East Ave. opposite Pioneer Drive.	39	961.08	60 d wt. spike in east side of telephone pole 101/4 on north side of field drive to the west and west side of S.R. 800; 1000'± south of S.R. 183 intersection.			
20	983.64	Small boat spike in east side of light pole 988A1/110 O.P. Co. at the south west corner of Pioneer Drive and West Avenue.	40	974.45	P.K. nail in south side of power pole 988C2/3 O.P. Co. on north side of S.R. 183, 750'± east of S.R. 800.			

Note: For approximate Bench Mark Locations, See Sheet No. 3

GENERAL NOTES

COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

5
69

EXISTING UTILITIES

It shall be the responsibility of the Contractor to maintain flow in all sewers, drain pipes and water courses encountered during construction at his own expense and any drains destroyed or disturbed during construction shall be restored to the satisfaction of the Engineer at the Contractor's expense with State of Ohio Department of Transportation approval on State Right of Way.

It shall also be the responsibility of the Contractor to maintain flow in all drive pipes encountered during construction at his own expense. The Contractor shall carefully remove and store all drive pipes during construction, and the drive pipes shall be reinserted to their original position as soon as possible after the construction passes by the drive. Any drive pipes destroyed or damaged during construction shall be replaced.

Utility locations as shown on the plan sheets are approximate only. It shall be the Contractor's responsibility to determine the exact location and elevation of said utilities prior to construction, and to negotiate such utility relocation as may be necessary with the utility company (ies). All negotiations and work shall be performed at no extra cost to the owner and must have State of Ohio Department of Transportation approval on State Right of Way.

Notification shall be given to the following utility companies before construction begins:

1. Ohio Bell Telephone Company, 832 McKinley Ave. N.W. Canton, Ohio 44703
2. Ohio Power Company, 301 Cleveland Ave. S.W., Canton, Ohio 44701
3. Columbia Gas of Ohio Inc., 622 East Lincoln way, Minerva, Ohio 44701
4. Columbia Gas of Ohio Inc., 99 North Front Street, Columbus, Ohio 43215
5. Columbia Gas Transmission Corporation, P.O. Box 1273, Charleston, West Virginia 25300
6. East Ohio Gas Company, 7015 Freedom Street, North Canton, Ohio 44720
7. Tele-Media Cable T.V., 116 South Main, Columbiana, Ohio

MANHOLES

Manholes located in pavement, berms, lawns or mowed areas shall be flush with existing ground while manholes located in non-mowing open land areas shall extend four (4) to six (6) inches above existing ground unless otherwise noted on the plan and profile sheets.

Manholes with covers below elevation 962.0 will require waterproof lids and shall be equal in quality and performance to Number R-1755-G as manufactured by Neenah Foundry Company, or Number 1043 as manufactured by East Jordan Iron Works, Inc. or equal. 19 waterproof lids will be required.

TREES

Trees within the Right of Way may be removed to facilitate construction with the Engineer, except fruit trees, shade trees and ornamental trees which should be preserved and replaced upon completion of construction or tunneled under if the tree is too big to replace. Should it become necessary to remove trees, it may be done only with the written approval of the Engineer or State of Ohio Department of Highways approval when on State Right of Way.

ESTIMATED QUANTITIES

The Contractor agrees that the estimated quantities are only for the purpose of comparing, on a uniform basis, the bids offered for the work under this contract. The Owner shall not be held responsible if, in the construction of the work, any of the said estimated quantities should be found to vary from the quantities shown. The Engineer may increase or decrease the amount of any class or portion of the work as may be deemed necessary. Measurement for pipe quantities for bidding purposes are calculated as follows: Centerline to Centerline between manholes.

DATUM

All elevations shown in this plan are based on U.S.C. and G.S. data.

TRAFFIC MAINTENANCE

The Contractor shall maintain lights, signs, barricades, flagmen and watchmen necessary for the protection of traffic at all times, day and night. The Contractor shall provide signs and barricades in accordance with the Ohio Manual of Uniform Traffic Control Devices for Street and Highways. The cost of such equipment, materials, and labor shall be included in the cost stipulated per linear foot of sewer pipe.

SIDEWALKS AND DRIVES

The contractor shall replace any sidewalk and/or drive damaged during construction with equal materials or better. The cost for sidewalk and/or drive replacement shall be included in the unit price bid per linear foot of sewer line.

MATERIALS AND PROCEDURES

All materials shall meet the 1975, State of Ohio, Department of Transportation Construction and Material Specifications.

REGULATIONS

Roof drains, foundation drains and other clean water connections to the sanitary sewer are prohibited.

WYE BRANCHES AND HOUSE CONNECTIONS

Location of wye branches and house connections shown on the plans is only an approximate location. The exact location shall be determined by the Resident Project Representative at the time of construction.

MANHOLE AND WET WELL REFERENCES

All manholes and wet wells situated at turning points are located by means of centerline references. All dimensions shown on the references in this plan are given from a point on the reference to the centerline of the item referenced.

SUBSURFACE CONDITIONS

It shall be the responsibility of the Contractor to investigate subsurface conditions at the project site prior to construction. (See information for bidders.)

FARM DRAINS

All farm drains which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors which are encountered during construction shall be replaced within, and one (1) foot on each side of, the trench limits by one section of conduit, one commercial size larger than the existing conduit. Backfill in farm drain areas shall be sufficiently tamped to allow a minimum amount of settlement. The cost of furnishing and installing farm drains disturbed during construction shall be included in the price bid per linear foot of sewer pipe.

PROPERTY LINES

Property lines as shown in this plan have been provided in order to establish the necessary service connections along the Trunk and Lateral lines and to establish development potentials for future use. They are not, however, intended for use in establishing personal property limits or boundaries.

CONCRETE ENCASEMENT AT STREAM CROSSINGS

Concrete encasement shall extend two (2) feet beyond normal water line, where the stream is under ten (10) feet in width at normal flow conditions and concrete encasement shall extend five (5) feet beyond normal water line where the stream is ten (10) feet or greater in width at normal flow conditions. Concrete encasement shall be Class C concrete and will be paid for at the cost stipulated per linear foot per size of sewer.

RAILROAD CROSSINGS

The Contractor shall notify the Baltimore and Ohio Railroad Company and obtain clearance from them before starting construction and co-ordinate his work in accordance with the railroad's provisions. In addition the contractor shall furnish a protective liability policy with the Baltimore and Ohio Railroad Company as the Named Insured with liability limits of \$500,000, \$100,000 for bodily injury and \$500,000 for property damage. The insurance must be furnished before work is commenced on Railways property. The cost of insurance shall be included in the cost per railroad crossing, no additional payment will be made for insurance.

No excavation materials or any other materials shall be placed on highway pavement at any time.

Blasting will not be permitted under or near railroad tracks and facilities.

Whenever equipment or personnel are working closer than 15 feet to the centerline of an adjacent track, that track shall be considered as being obstructed. Insofar as possible, all operations shall be conducted no less than this distance. Operations closer than 15 feet to the centerline of a track shall be conducted only with the permission of, and as directed by, a duly qualified railroad employee present at the site of the work.

Crossing of tracks at grade by equipment and personnel is prohibited except by prior arrangement with, and as directed by, the railroad.

All operations shall be conducted so as not to interfere with, interrupt, or endanger the operation of trains, nor damage, destroy, or endanger the integrity of railroad facilities. All work on and near railroad property shall be conducted in accordance with railroad safety rules and regulations. The Contractor shall secure and comply with the railroad safety rules and shall give written acknowledgement to the railroad that they have been received, read and understood by the Contractor and his employees. Operations will be subject to railroad inspection at any and all times.

At all times when the work is being progressed, a field supervisor for the work with no less than 12 months' experience in the operation of the equipment being used shall be present. When boring, drilling, or similar machines are being used, the machine operator also shall have no less than 12 months' experience in the operation of the equipment being used.

CONSTRUCTION PRIORITIES

During the construction of this project the Contractor shall strictly adhere to the following priorities, unless otherwise directed:

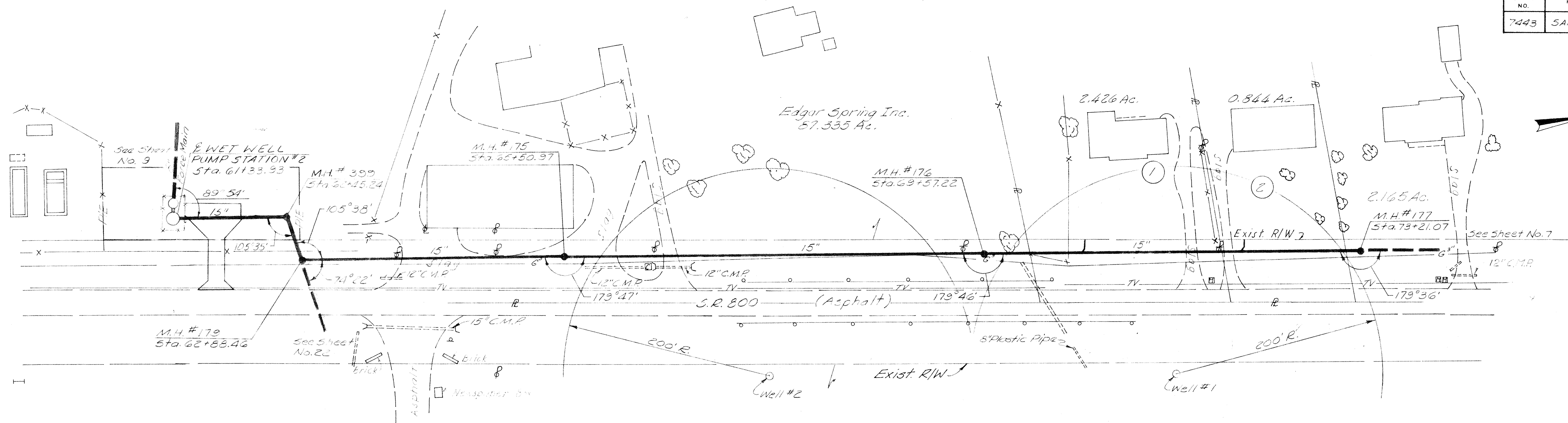
Order of importance:

1. Vertical Alignment: Flowline elevations of manholes take precedence over any and all other plan requirements and shall be held at the sacrifice of the calculated slope of pipe, if necessary, to satisfy the horizontal alignment.
2. Horizontal Alignment: Dimensions shown from the proposed manhole locations to existing topographical features will take precedence over distances and angles given between manholes to establish horizontal alignment.

All other conditions described in this plan shall remain unchanged unless directed by the Engineer and State of Ohio Department of Transportation when on State Right of Way.

EXISTING COMBINED SEWERS

The existing combined sewers shall remain in service during and after construction. After construction the existing sewer shall transport storm water only, no sanitary sewage will be permitted.



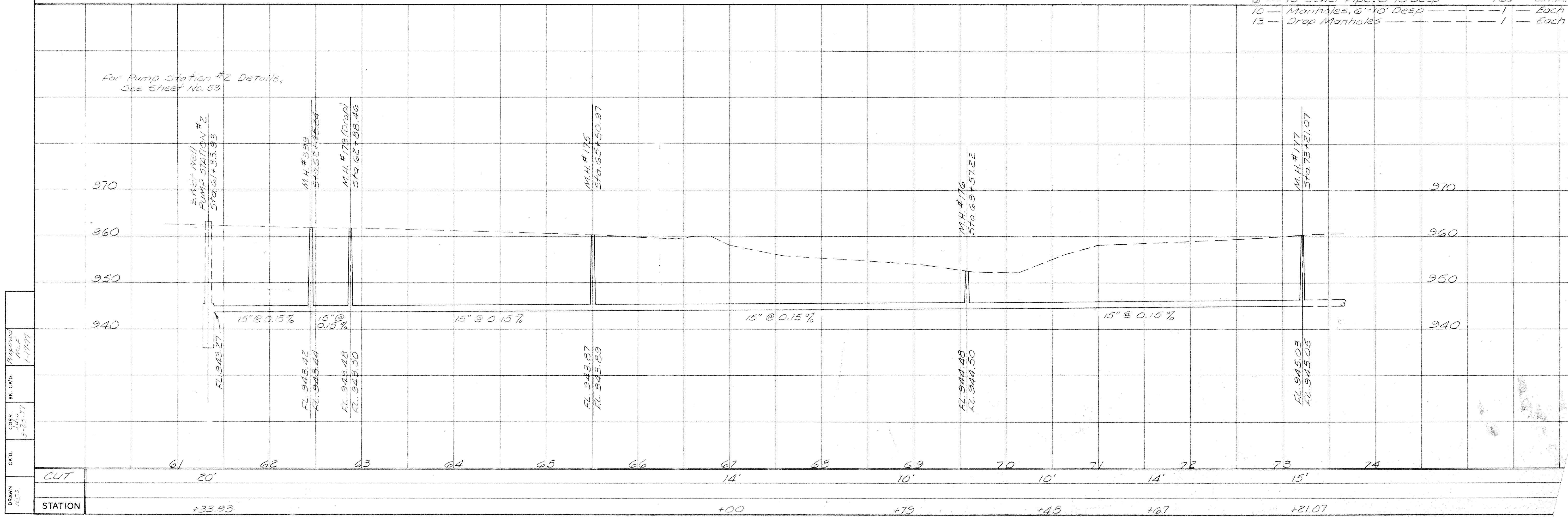
Note:
 All sewer pipe, house connections and wyes between Manhole #175 and Manhole #177 shall be constructed watertight, of water Main type materials Joints, etc. and shall be subjected to a 50 psi pressure test. Payment for this work shall be included in the price bid for the corresponding items of Sewer Pipe, 6" House Connections, Wyes, etc.

- ① Richard Lee & Donna Carol Davis
- ② Edward Ray & Nancy Gail Adolph

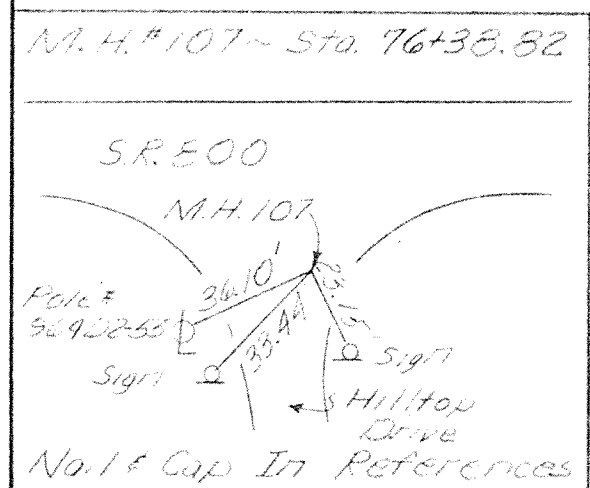
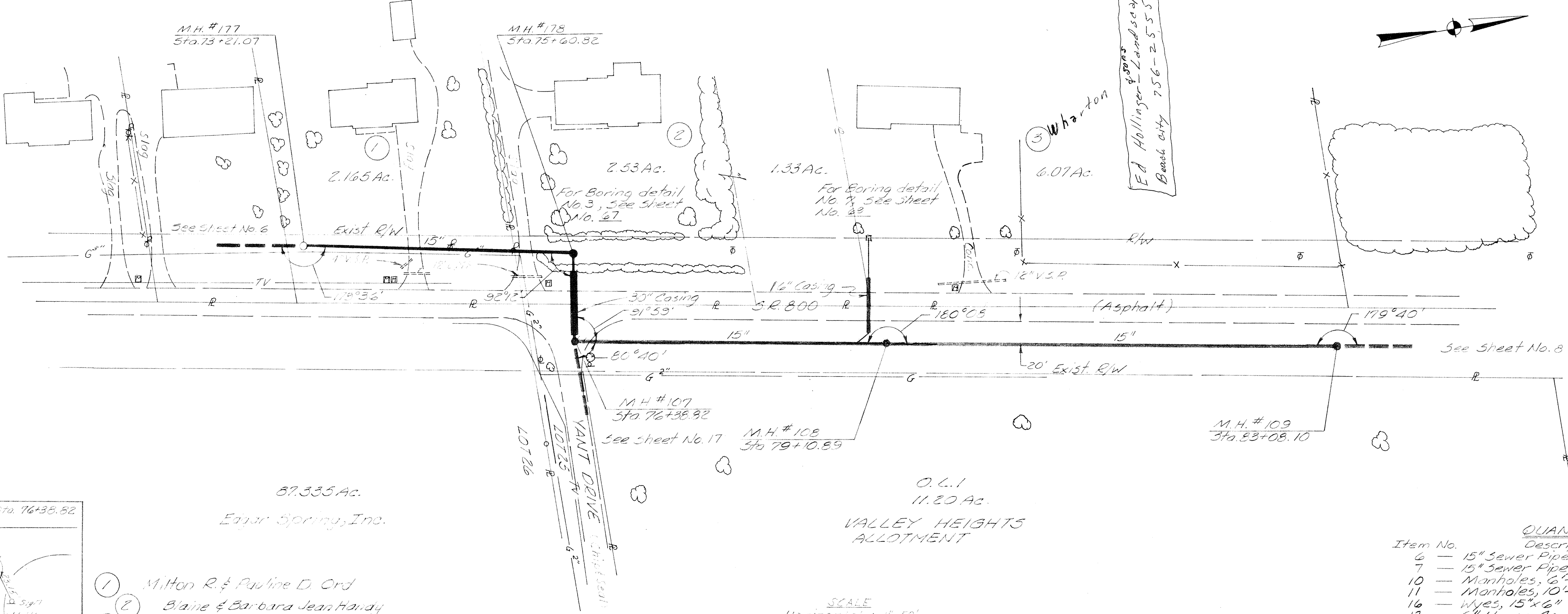
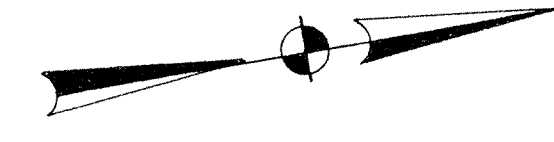
SCALE
 Horizontal : 1" = 50'
 Vertical : 1" = 10'

Item No.	Description	Quantity	Unit
7	15" Sewer Pipe, 10'-14' Deep	298	Lin. Ft.
8	15" Sewer Pipe, Over 14' Deep	721	Lin. Ft.
11	Manholes, 10'-15' Deep	1	Each
12	Manholes, Over 15' Deep	2	Each
14	Wyes, 15" x 6"	2	Each
17	6" House Connections	25	Lin. Ft.
18	Granular Backfill	518	Lin. Ft.
6	15" sewer Pipe, 0-10' Deep	169	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
13	Drop Manholes	1	Each

For Pump Station #2 Details,
 See Sheet No. 59



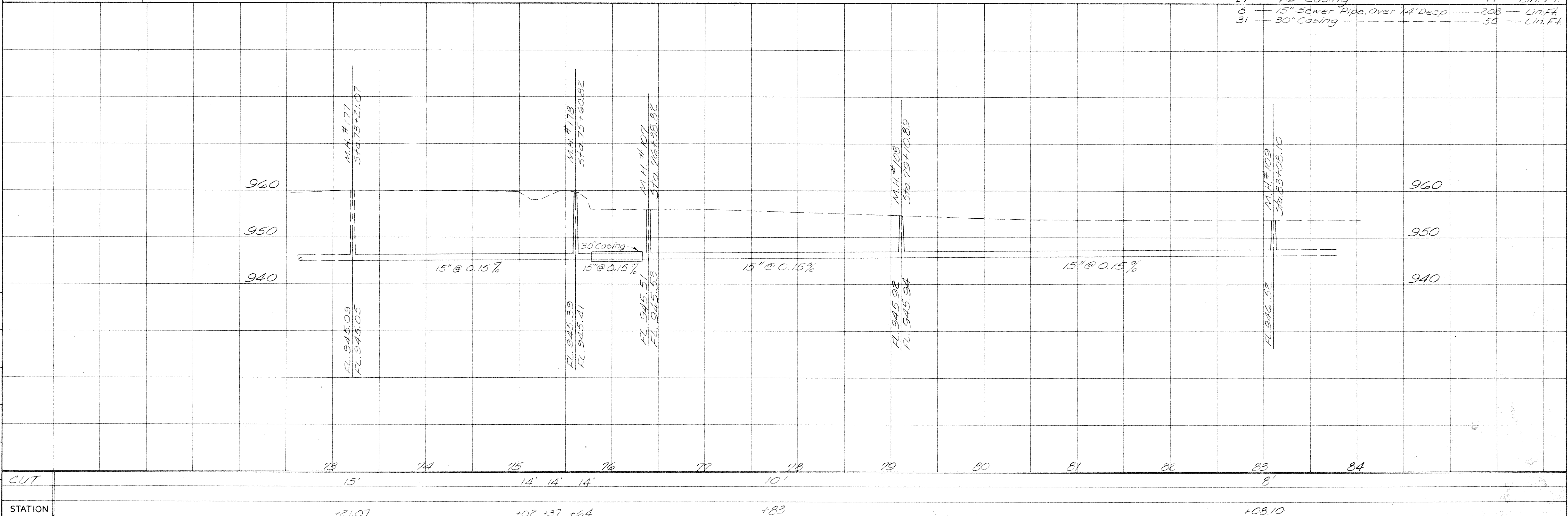
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 BK CKD: R. G. G., 1-17-77
 DRAWN: H.E.S.



- 1 Milton R. & Pauline D. Ord
- 2 Blaine & Barbara Jean Handy
- 3 Robert L. & Lou Ann Wharton

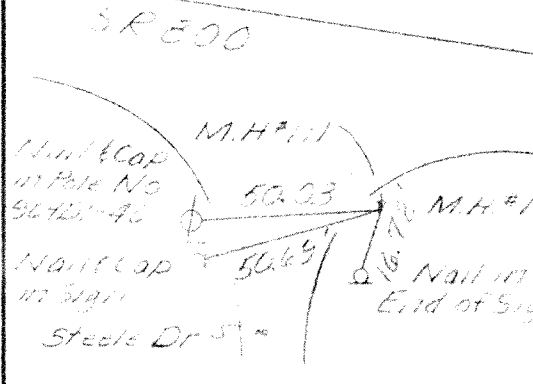
SCALE
 Horizontal: 1" = 30'
 Vertical: 1" = 10'

Item No.	Description	Quantity	Unit
6	15" Sewer Pipe, 0'-10' Deep	526	Lin. Ft.
7	15" Sewer Pipe, 10'-14' Deep	254	Lin. Ft.
10	Manholes, 6'-10' Deep	2	Each
11	Manholes, 10'-15' Deep	2	Each
16	Wyes, 15" x 6"	3	Each
17	6" House Connection	119	Lin. Ft.
18	Granular Backfill	96	Cu. Yd.
29	12" Casing	47	Lin. Ft.
3	15" Sewer Pipe, Over 14' Deep	208	Lin. Ft.
31	30" Casing	55	Lin. Ft.



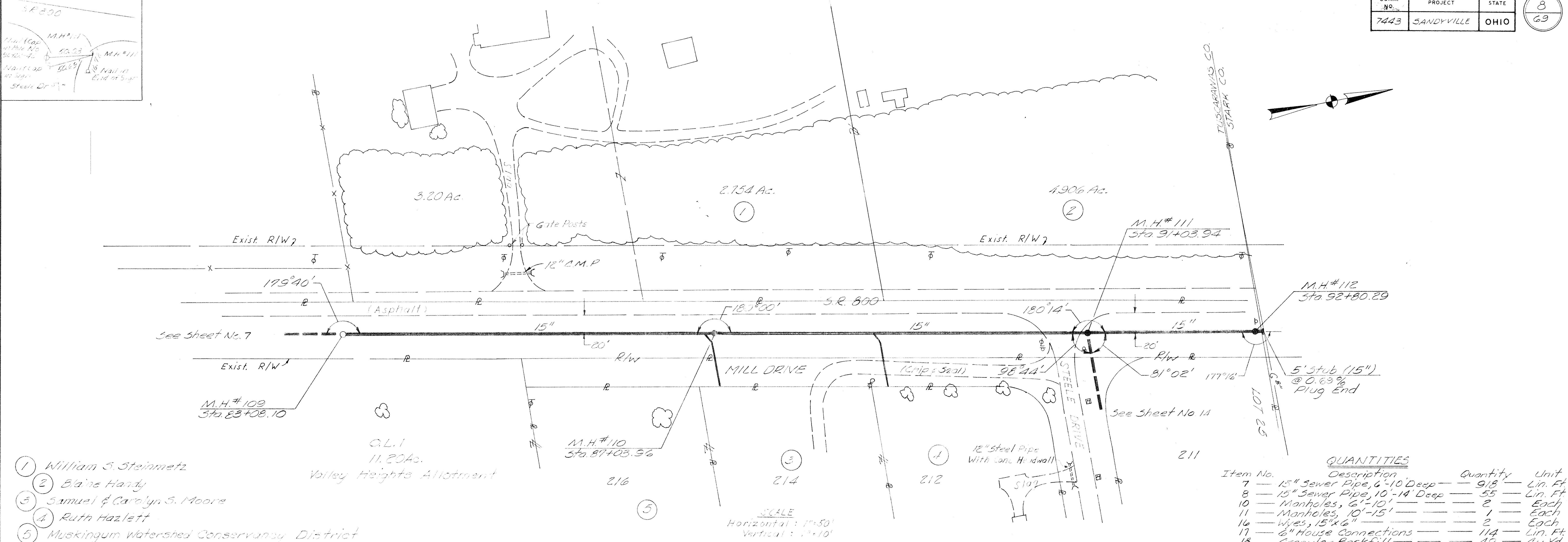
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 CORR: []
 BK. CTD: []
 PLOTTED: []

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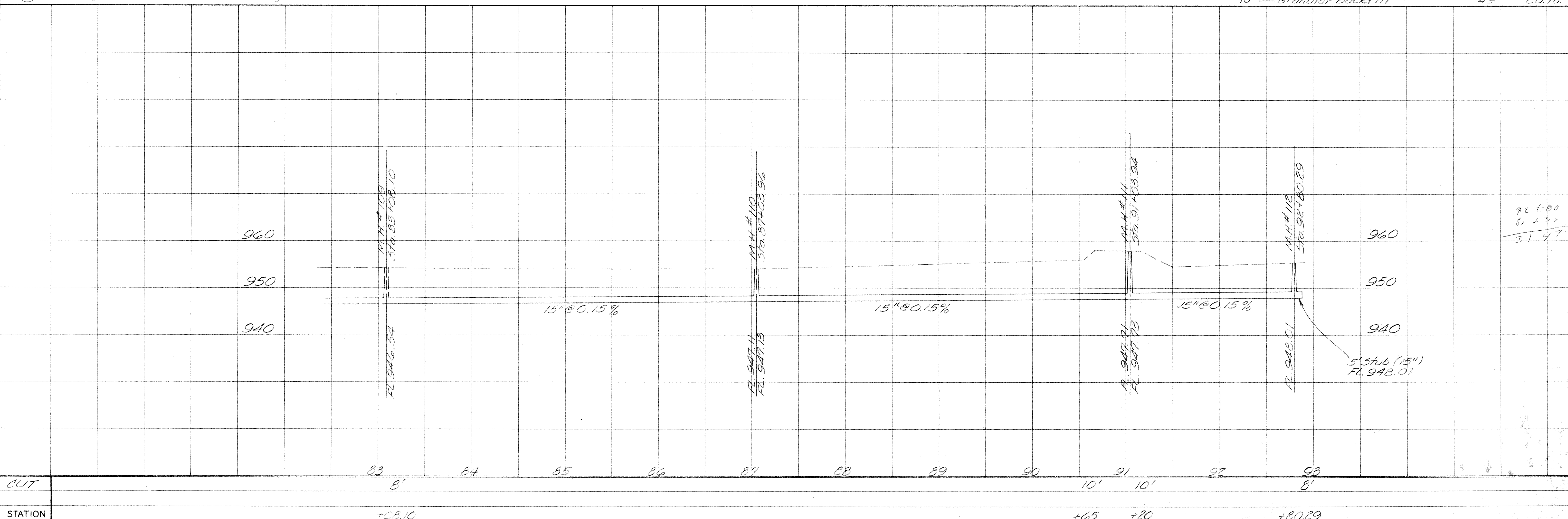
COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

8
69



- ① William S. Steinmetz
- ② Blaine Hardy
- ③ Samuel & Carolyn S. Moore
- ④ Ruth Hazlett
- ⑤ Muskingum Watershed Conservancy District

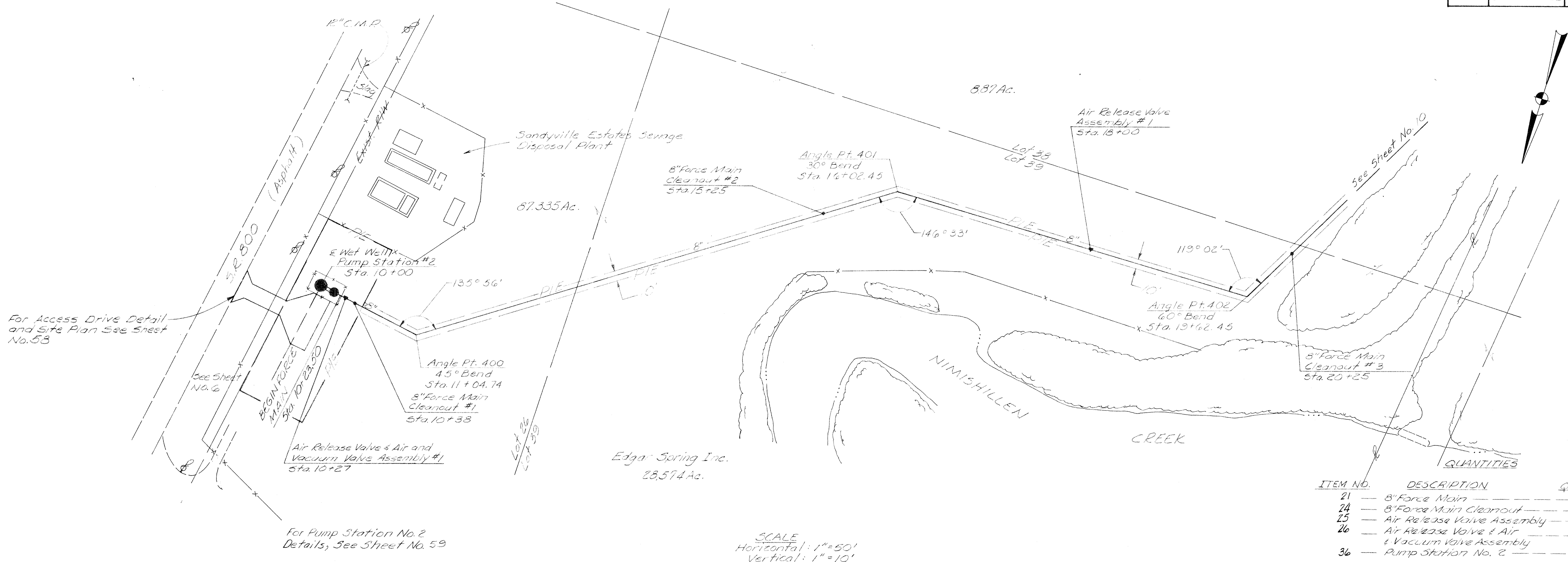
Item No.	Description	Quantity	Unit
7	15" Sewer Pipe, 6'-10' Deep	918	Lin. Ft.
8	15" Sewer Pipe, 10'-14' Deep	55	Lin. Ft.
10	Manholes, 6'-10'	2	Each
11	Manholes, 10'-15'	1	Each
16	Wyes, 15" x 6"	2	Each
17	6" House Connections	114	Lin. Ft.
18	Granular Backfill	49	Cu. Yd.



DRAWN: []
 CORR: []
 BK. CKD: []
 PROJECTED: []

CUT STATION: +83, +84, +85, +86, +87, +88, +89, +90, +91, +92, +93

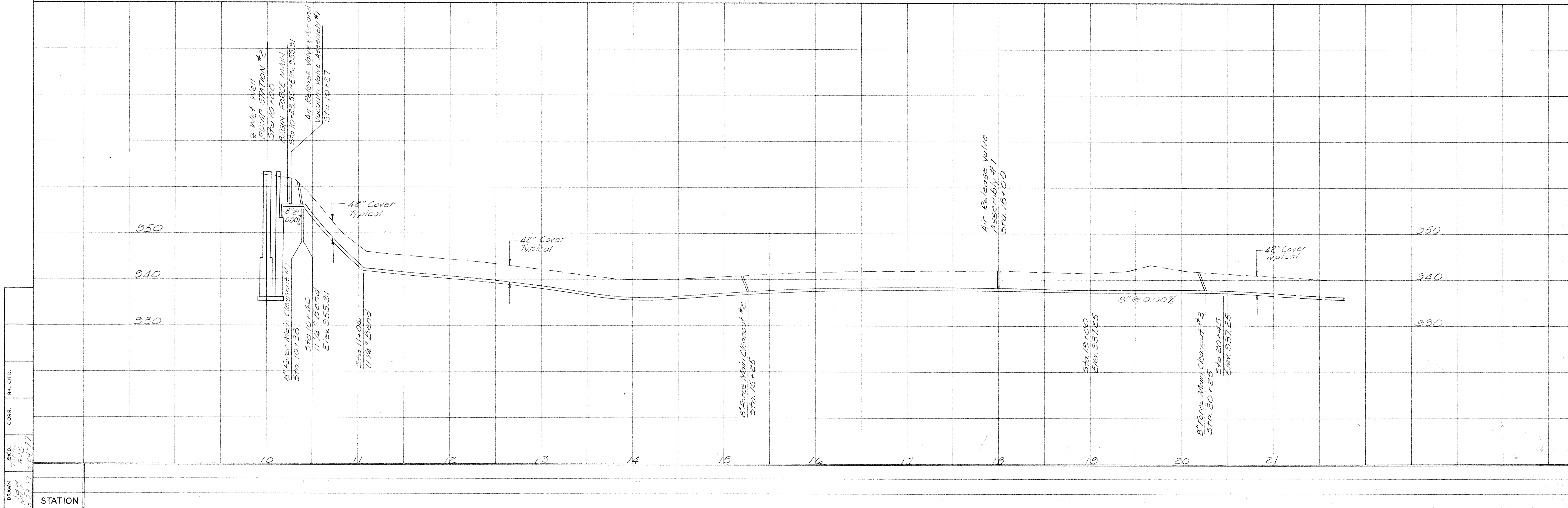
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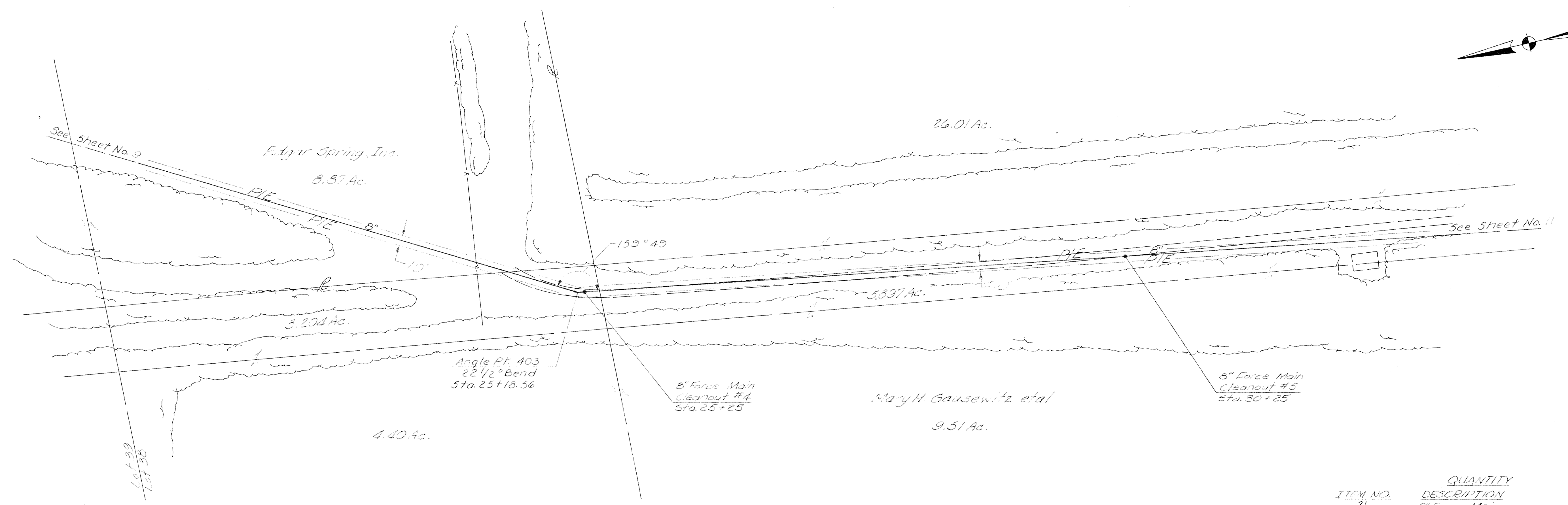
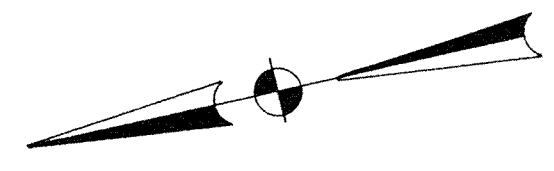
QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
21	8" Force Main	1071	Lin. Ft.
24	8" Force Main Cleanout	3	Each
25	Air Release Valve Assembly	1	Each
26	Air Release Valve & Air & Vacuum Valve Assembly	1	Each
36	Pump Station No. 2	1	Lump

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

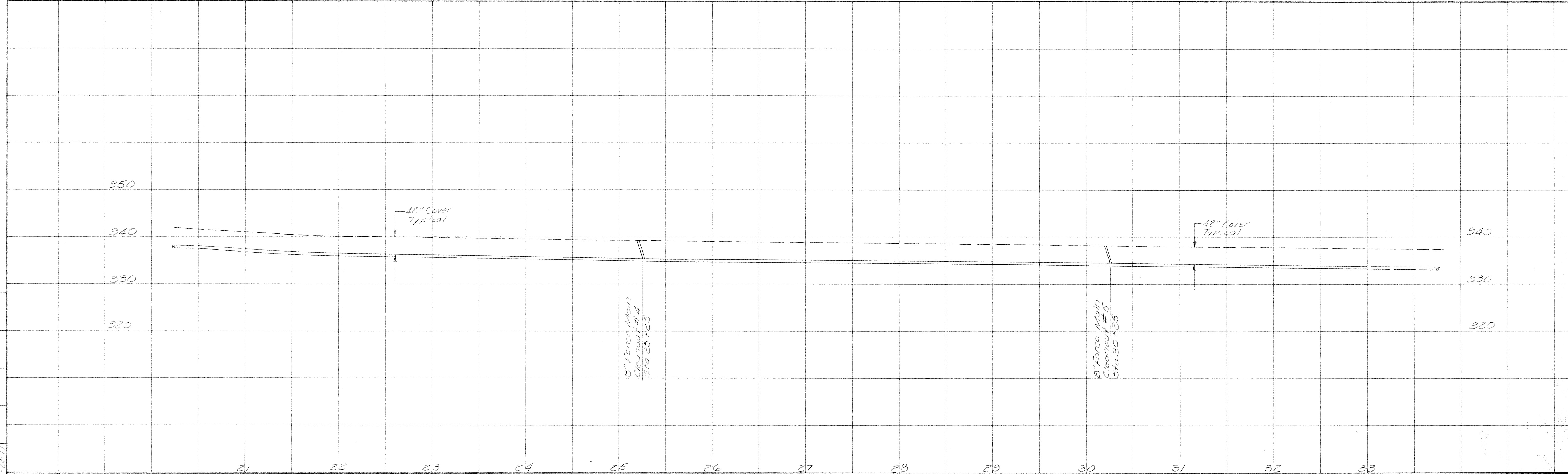


DRAWN: J.E.H. 5/22/77
CHKD: J.E.H. 5/24/77
CORR.: BK. CHD.
STATION

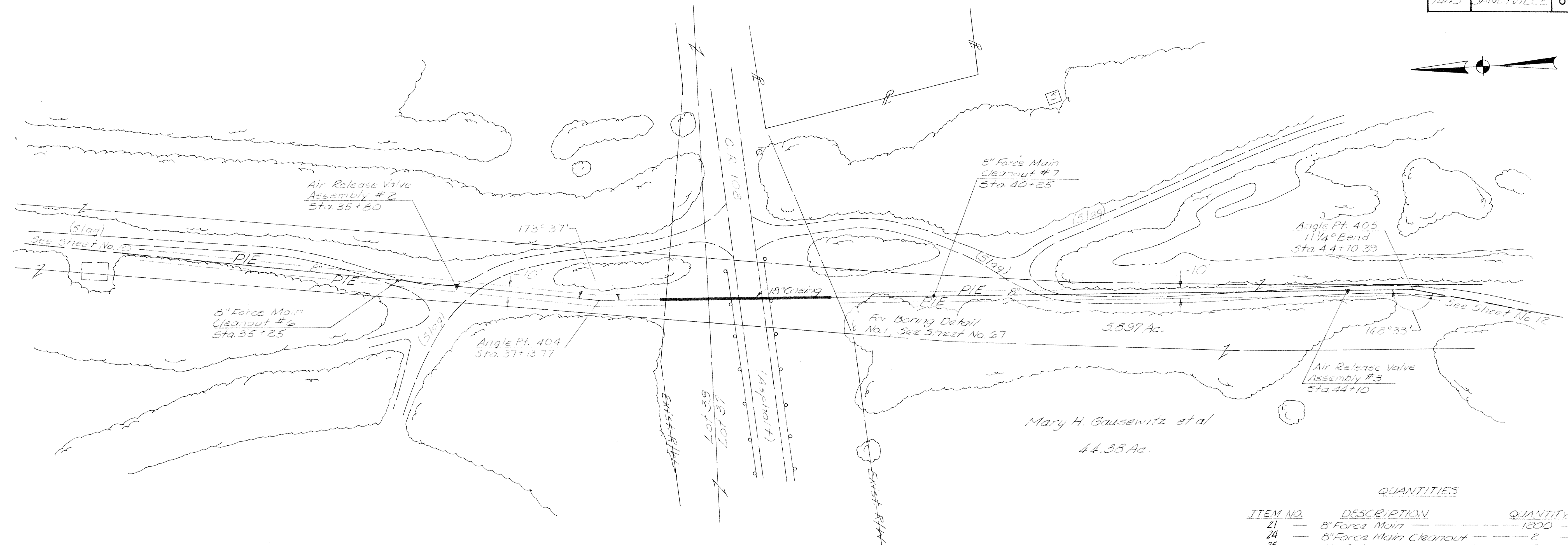
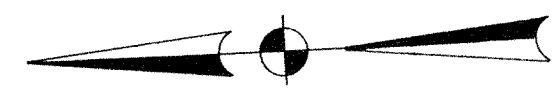


ITEM NO.	DESCRIPTION	QUANTITY	UNIT
21	8" Force Main	1300	Lin. Ft.
24	8" Force Main Cleanout	2	Each

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



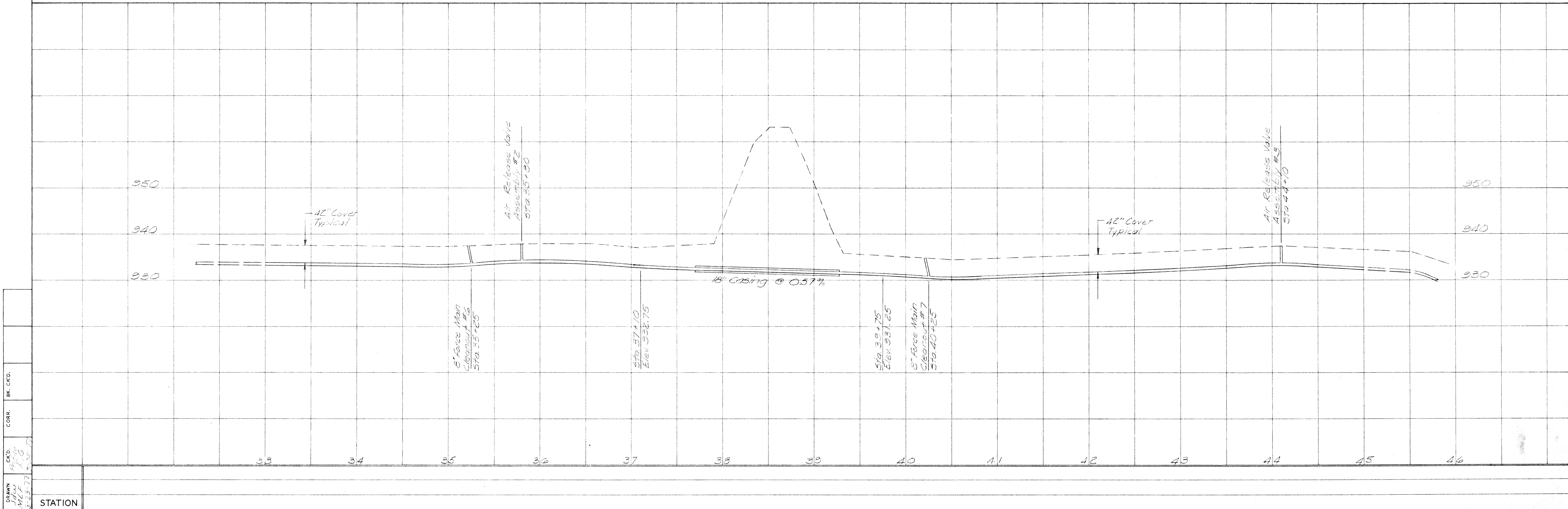
DRAWN: MCE
CHECKED: MCE
CORR.: BK. CKD.



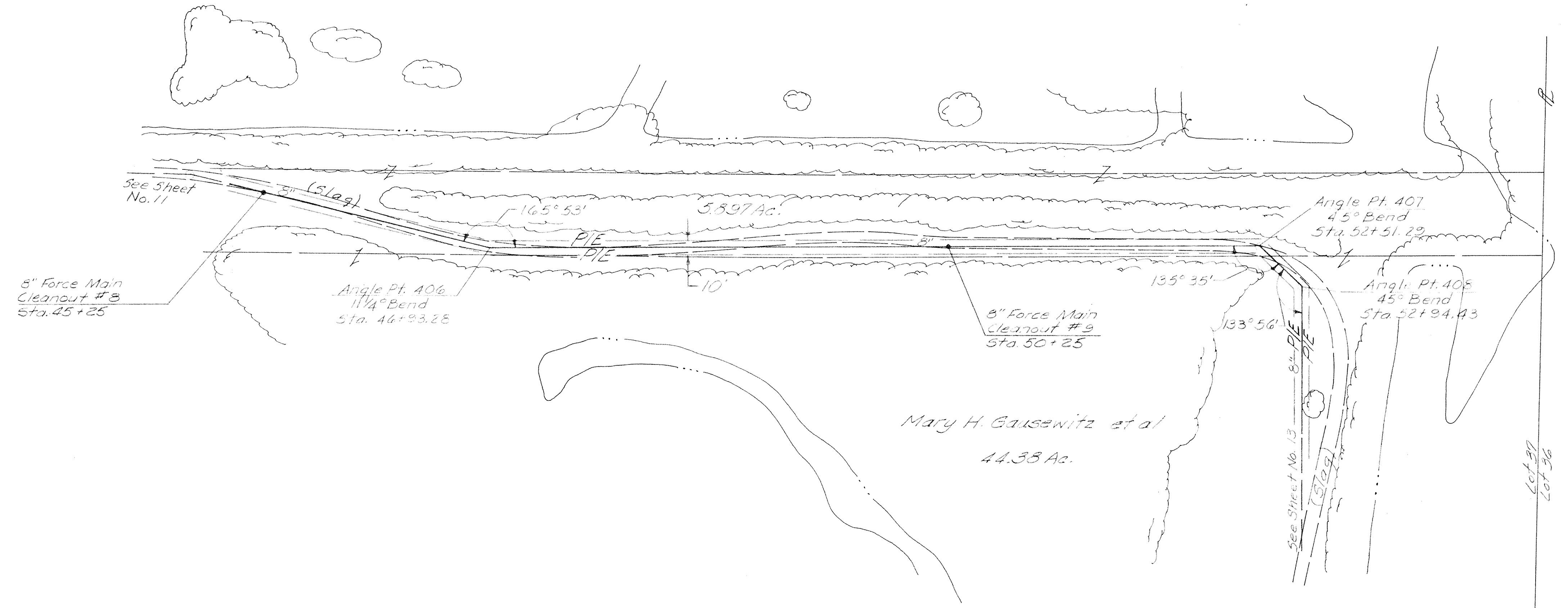
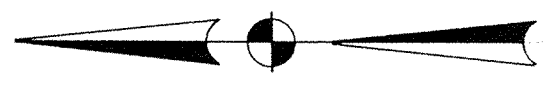
QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
21	8" Force Main	1200	Lin. Ft.
24	8" Force Main Cleanout	2	Each
25	Air Release Valve Assembly	2	Each
30	18" Casing	158	Lin. Ft.

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'



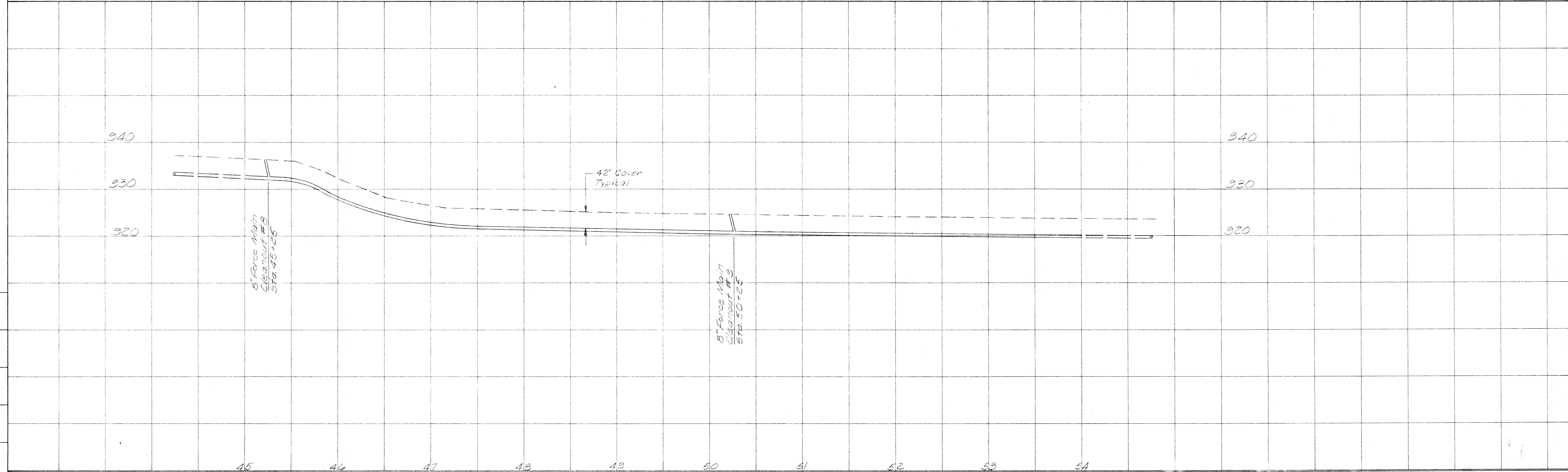
DRAWN: M.P. 1/15/11
 CHECKED: M.P. 1/15/11
 DATE: 1-15-11



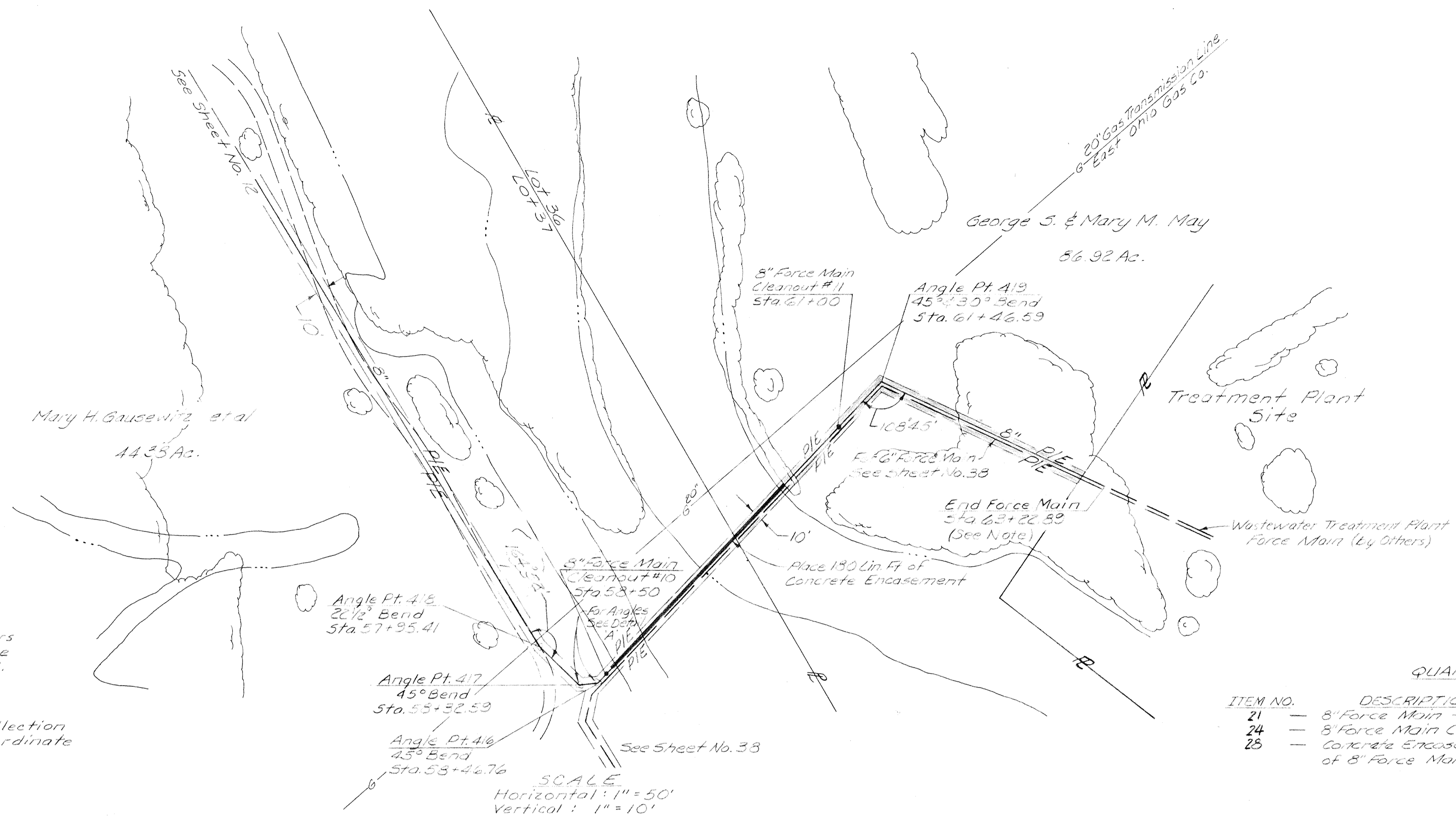
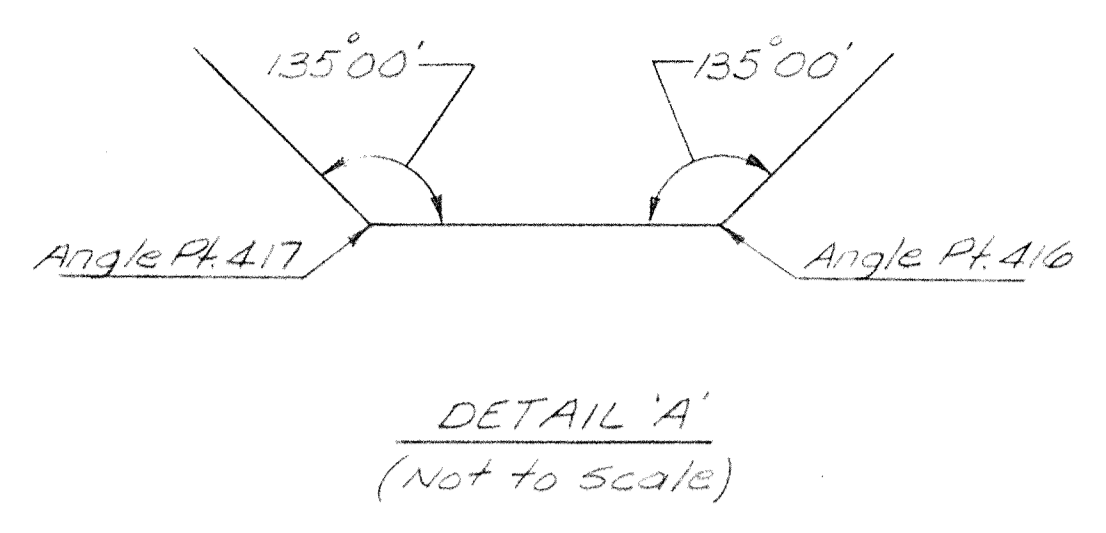
QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
21	8" Force Main	900	Lin. Ft.
24	8" Force Main Cleanout	2	Each

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



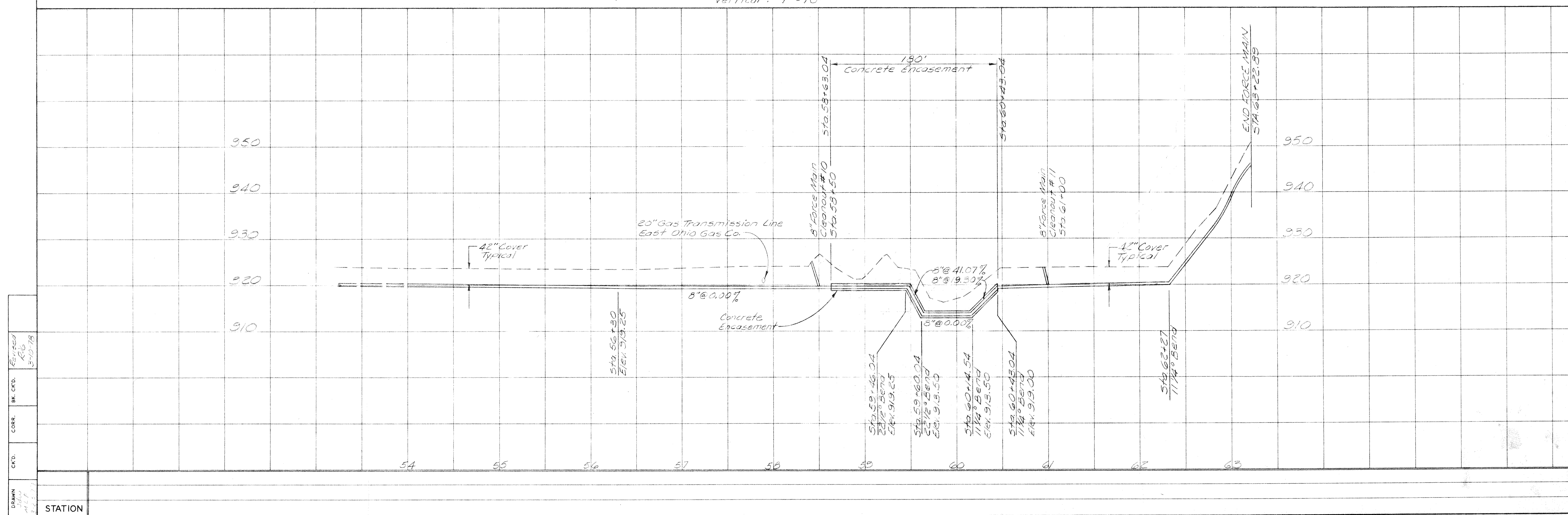
DRAWN: MJP
 3-23-17
 CKD:
 CORR:
 BK. CKD:

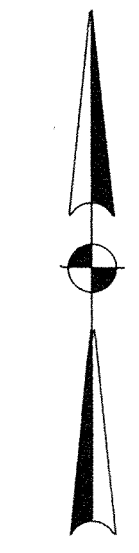
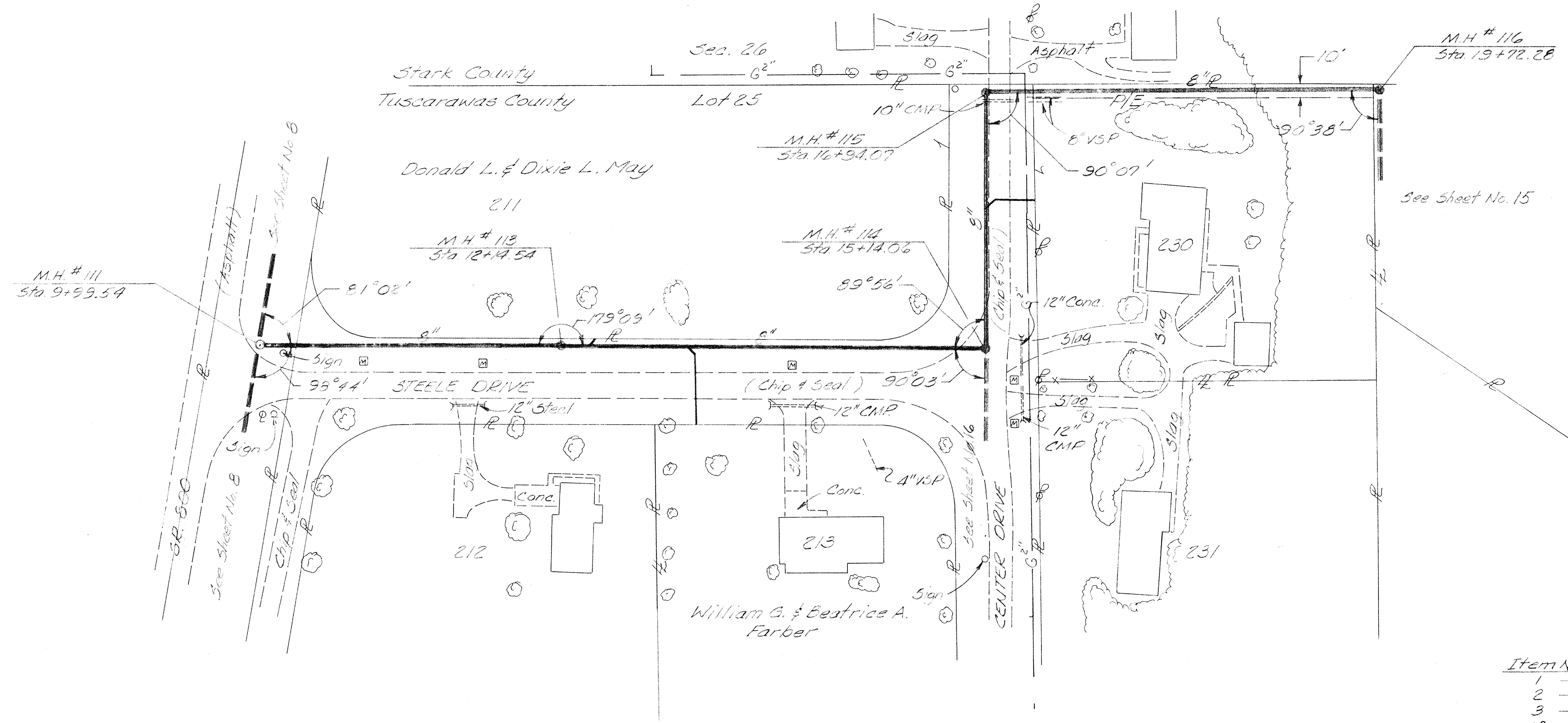
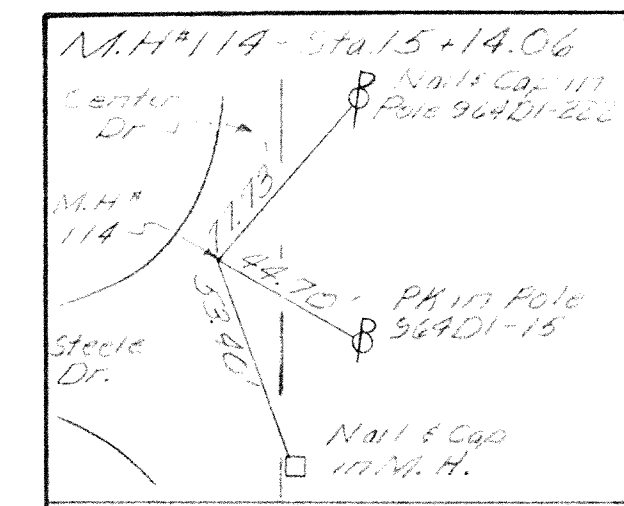


Note:
Wastewater Treatment Plant to be constructed by others as a separate contract. The type of pipe provided at the Wastewater Treatment Plant will be Cast Iron, class 22. The Contractor for the Collection System shall be responsible for supplying an adaptor, if force main material did is not cast iron, and for making the connection of the Plant. The Contractors for the Collection System and Wastewater Treatment Plant shall coordinate their work with each other.

QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
21	8" Force Main	923	Lin. Ft.
24	8" Force Main Cleanout	2	Each
25	Concrete Encasement	150	Lin. Ft. of 8" Force Main

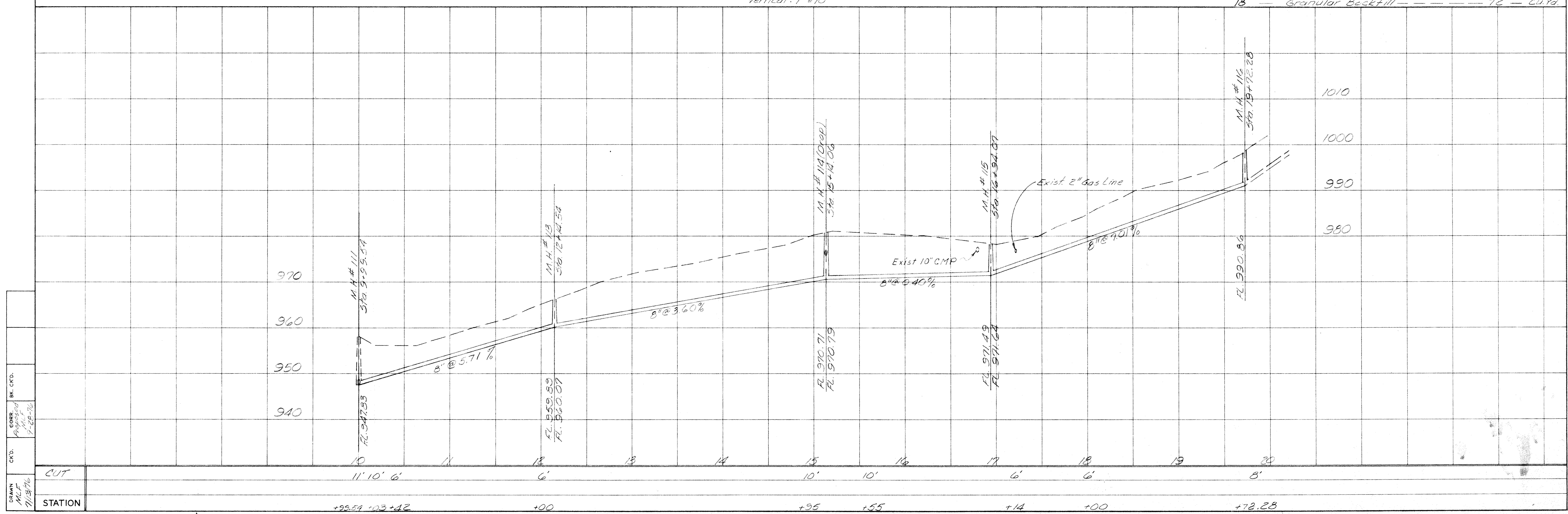




SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

QUANTITIES

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6' Deep	244	Lin. Ft.
2	8" Sewer Pipe, 6'-10' Deep	668	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	63	Lin. Ft.
10	Manholes, 6'-10' Deep	3	Each
13	Drop Manholes	1	Each
15	Wyes, 8" x 6"	3	Each
17	6" House C. r. section	90	Lin. Ft.
18	Granular Backfill	72	Cu. Yd.



CONR.	BR. CRD.
PROG.	
CHK'D.	
DRAWN	
DATE	

CUT
STATION

+92.59 +93.42 +00 +95 +55 +14 +00 +72.28

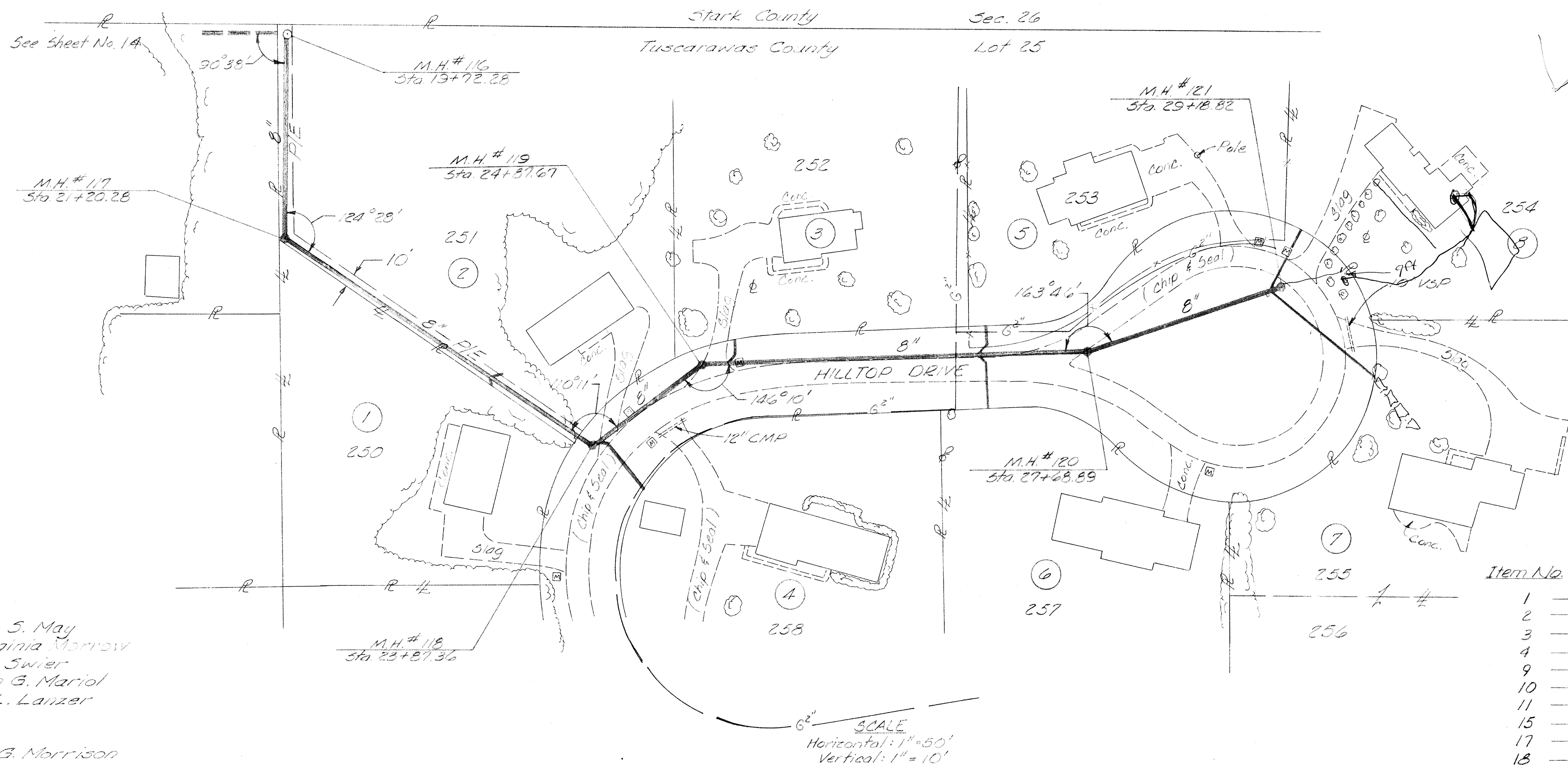
STEELE DRIVE LATERAL

M.H.#115 - Sta. 24+87.67

M.H.#115
Hilltop Dr
Note: All pipe
is to be top of
or culverts.
Punch Holes In References

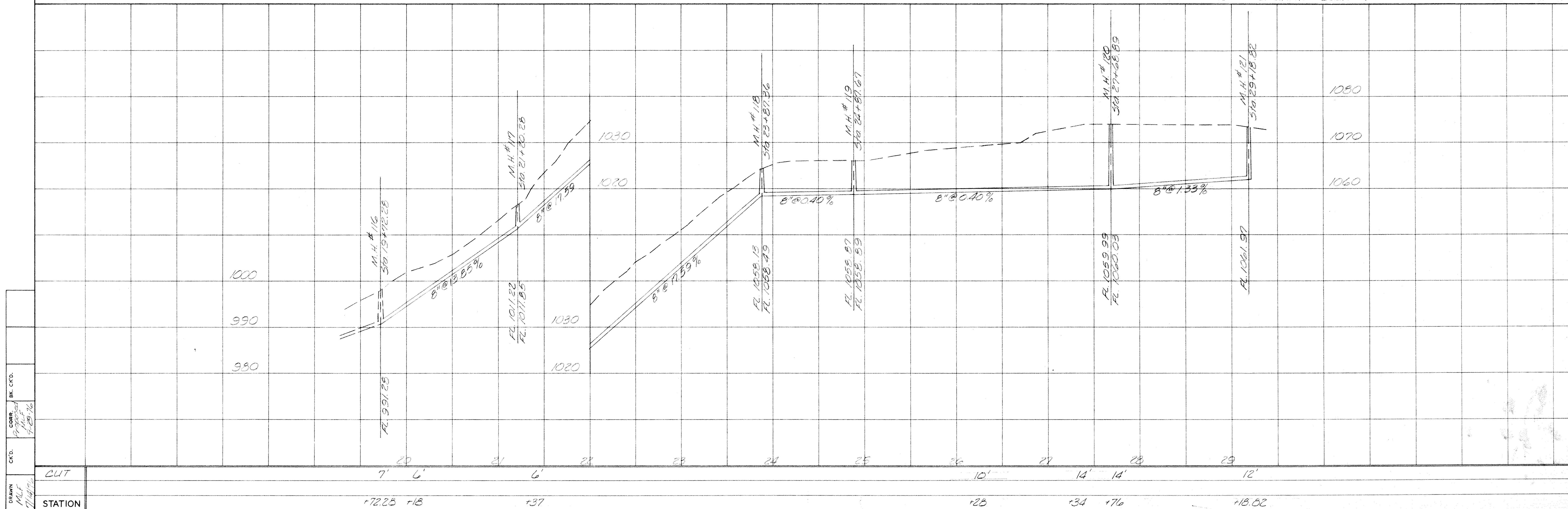
COMM. NO.	PROJECT	STATE
1443	SANDYVILLE	OHIO

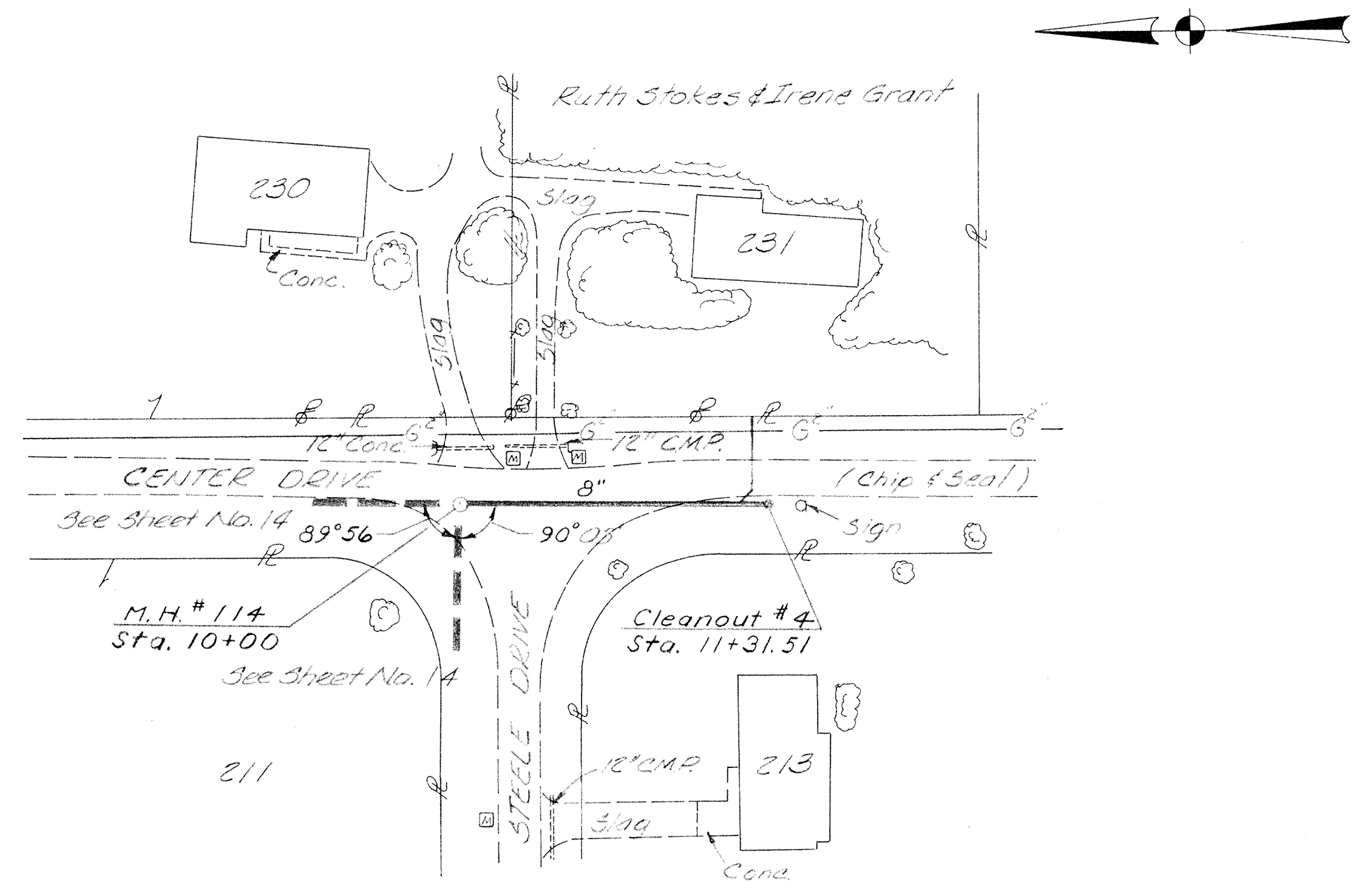
15
69



- ① George W. Jr. & Diane S. May
- ② H. Timothy & Virginia Morrow
- ③ William C. & June M. Swier
- ④ Ralph J. & Eileen B. Mariol
- ⑤ Bruce A. & Patricia L. Lanzer
- ⑥ Elsie L. Spahr
- ⑦ Jeannette J. Jones
- ⑧ Lynn A. & Linda G. Morrison

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	119	Lin. Ft.
2	8" Sewer Pipe, 6-10' Deep	537	Lin. Ft.
3	8" Sewer Pipe, 10-14' Deep	249	Lin. Ft.
4	8" Sewer Pipe, Over 14' Deep	42	Lin. Ft.
9	Manholes, 0-6' Deep	1	Each
10	Manholes, 6-10' Deep	2	Each
11	Manholes, 10-15' Deep	2	Each
15	Wyes, 8"x6"	8	Each
17	6" House Connection	282	Lin. Ft.
18	Granular Backfill	132	Cu. Yd.

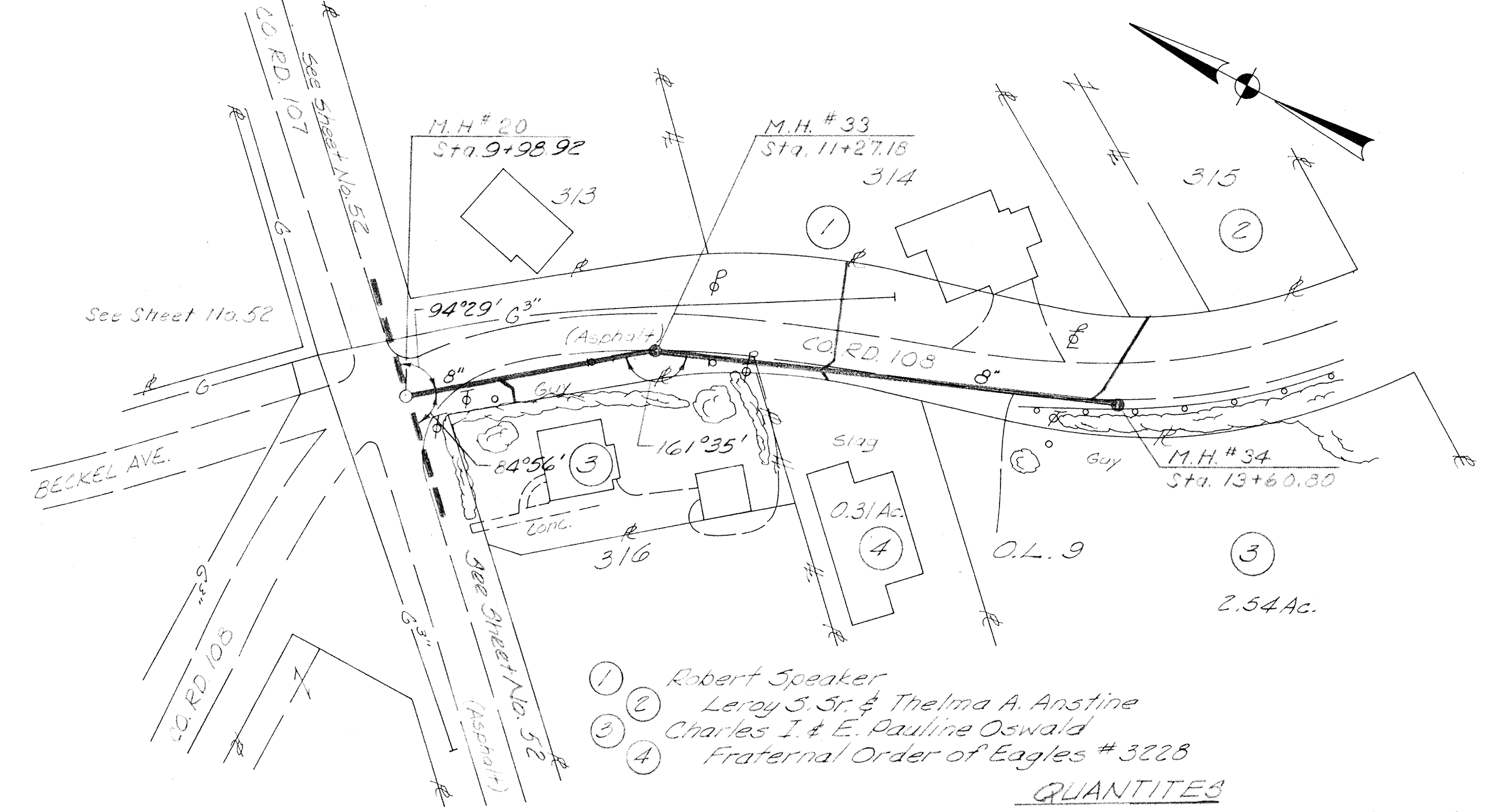




CENTER DRIVE LATERAL 'C'

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

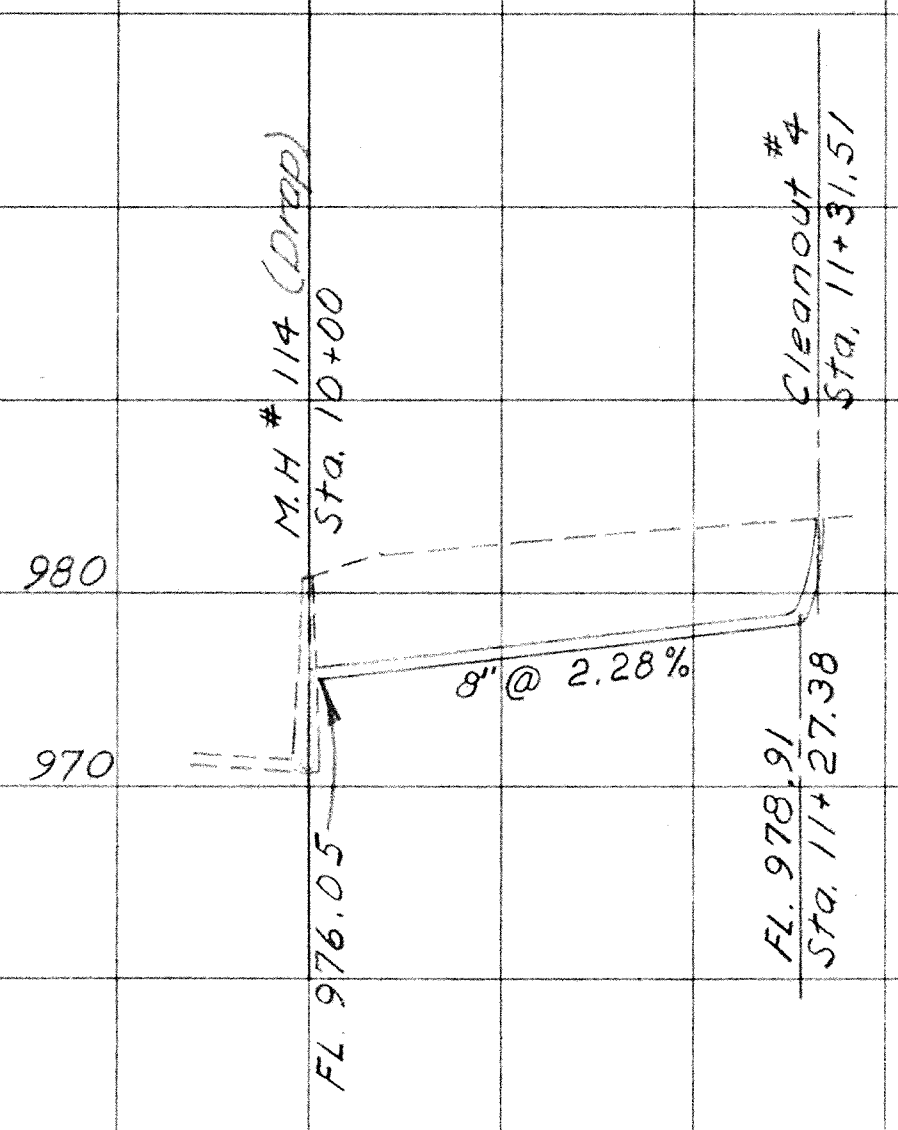
Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	91	Lin. Ft.
2	8" Sewer Pipe, 6-10' Deep	37	Lin. Ft.
14	Cleanouts	1	Each
15	Wyes, 8"x6"	1	Each
17	6" House Connection	38	Lin. Ft.
18	Granular Backfill	42	Cu. Yd.



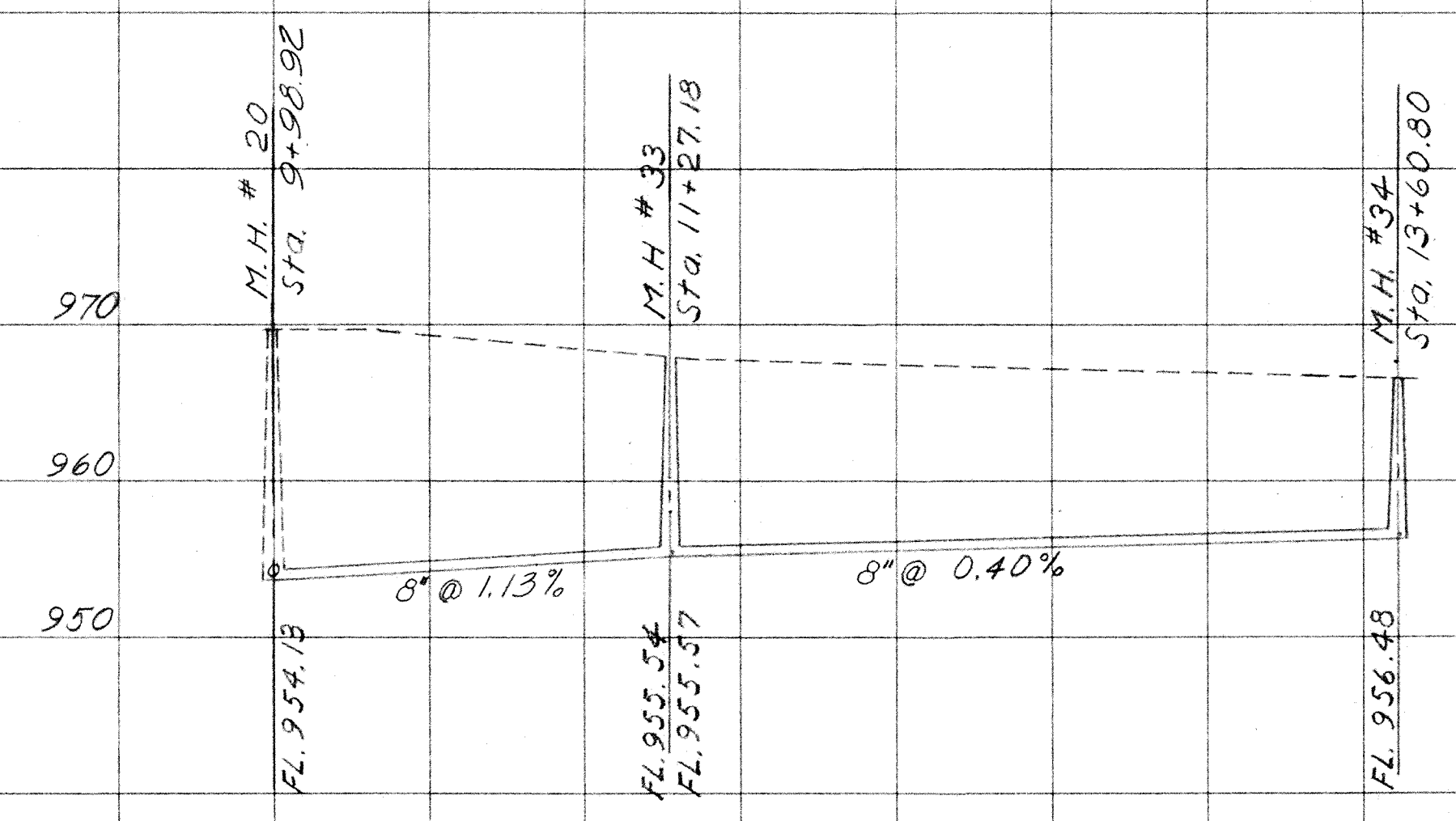
CORD. 108 LATERAL 'B'

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

Item No.	Description	Quantity	Unit
3	8" Sewer Pipe, 10'-14' Deep	271	Lin. Ft.
4	8" Sewer Pipe, Over 14' Deep	31	Lin. Ft.
11	Manholes, 10'-15' Deep	2	Each
15	Wyes, 8"x6"	4	Each
17	6" House Connection	165	Lin. Ft.
18	Granular Backfill	265	Cu. Yd.



CUT	6' 6" 6'	6'
STATION	+00+13 +50	+27.38



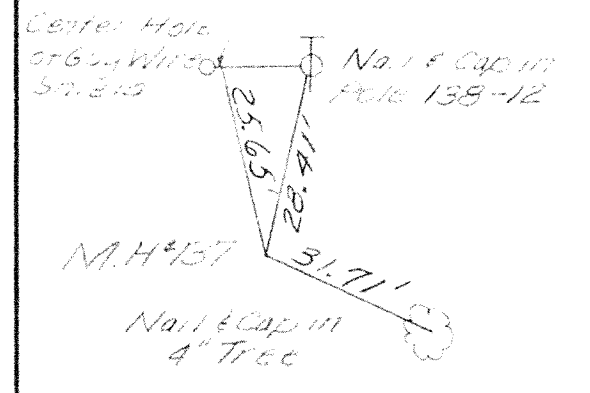
CUT	14'	14'	10'
STATION	+98.92	+90	+60.80

DRAWN BY: [Signature]
DATE: 7-1-76

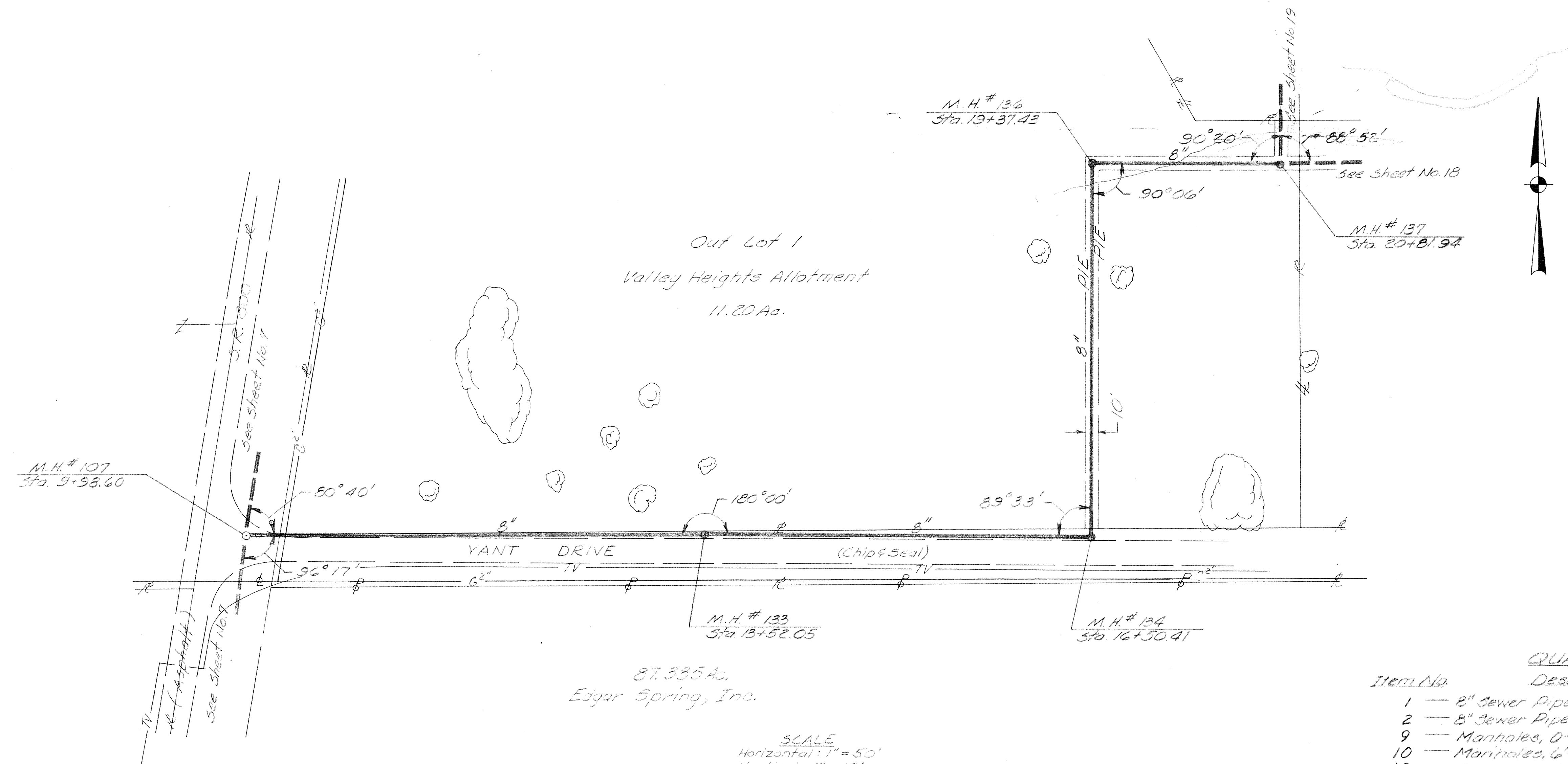
CORR. Proposed
H.E.S.
8-18-76

BK. CVD.

M.H.#137 - Sta. 20+81.94



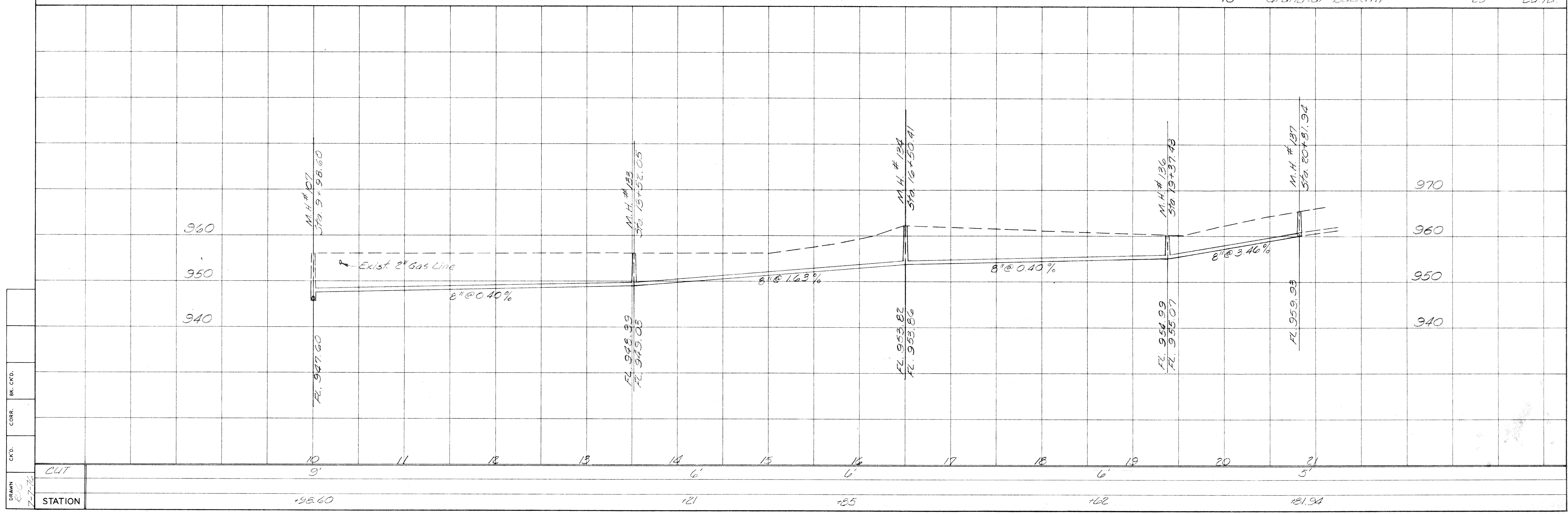
COMM. NO.	PROJECT	STATE	17 69
7443	SANDYVILLE	OHIO	



87.335 Ac.
Edgar Spring, Inc.

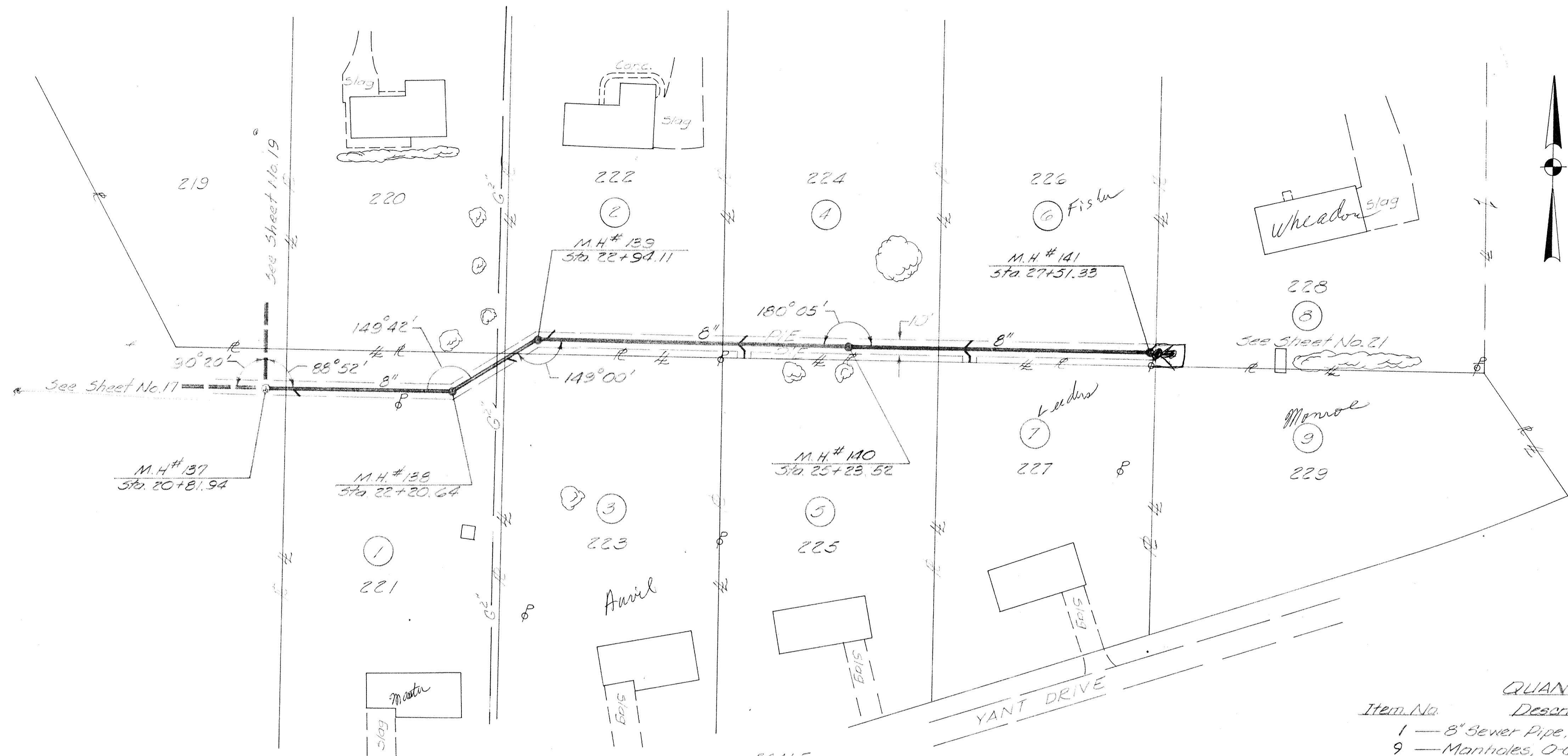
SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6" Deep	324	Lin. Ft.
2	8" Sewer Pipe, 6'-10" Deep	700	Lin. Ft.
9	Manholes, 0'-6" Deep	2	Each
10	Manholes, 6'-10" Deep	2	Each
18	Granular Backfill	29	Cu. Yd.



DRAWN
CHKD.
CORR.
BR. CKD.

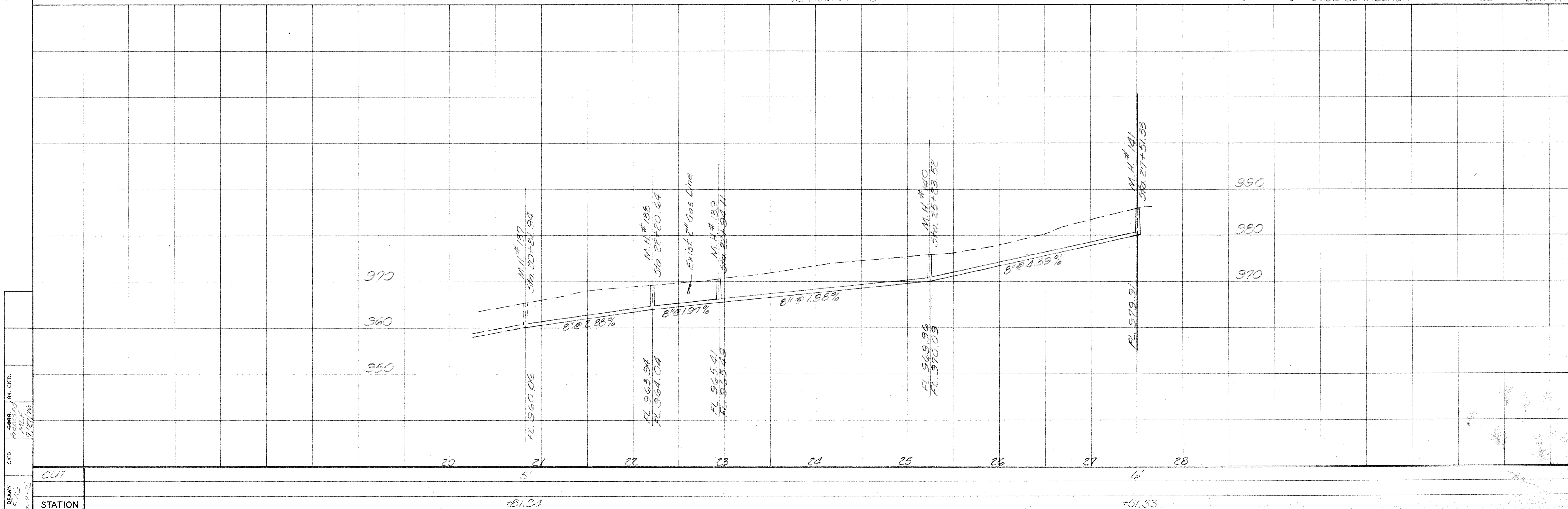
STATION	9+98.60	11	12	13	14	15	16	17	18	19	20	21	21+81.94
CUT					6'		6'			6'		5'	



- ① Louis J. & Jacqueline Mauter
- ② Michael J. & Ruth Ann DeDent
- ③ Anton B. & Frankie Ann Auvil
- ④ Gene C. & Ruth A. Patrick
- ⑤ Glen A. & Cheryl D. Whipple
- ⑥ John M. Fisher
- ⑦ Terry D. & Karen S. Leaders
- ⑧ John W. & Joan E. Wheador
- ⑨ Richard W. & Shelly J. Monroe

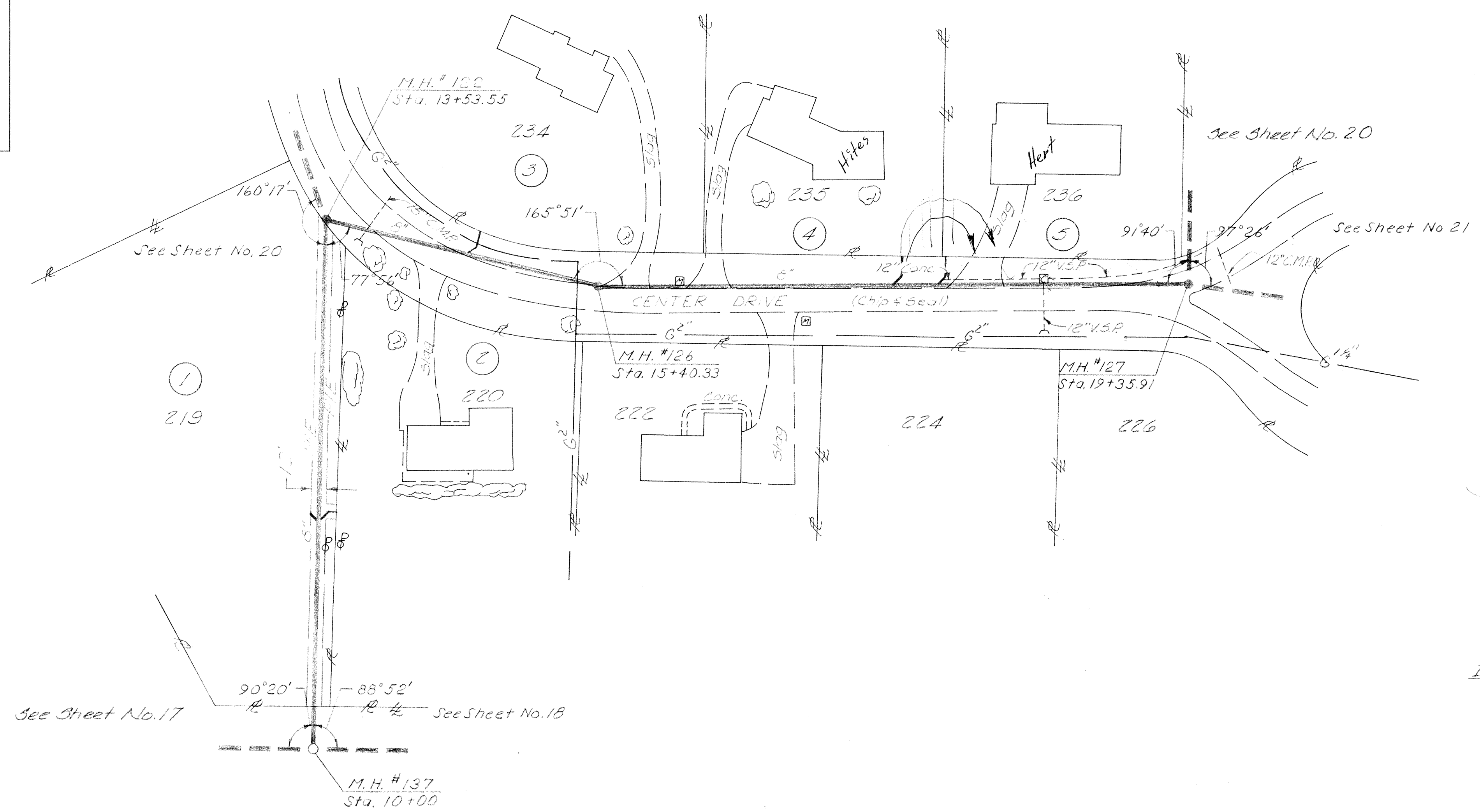
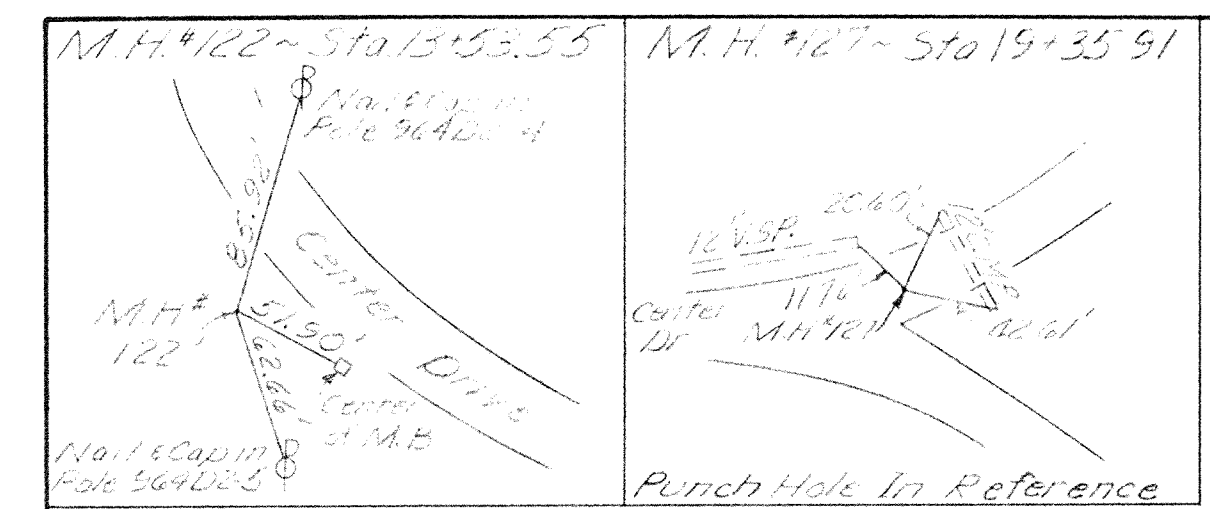
SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	670	Lin. Ft.
9	Manholes, 0-6' Deep	4	Each
15	Wyes, 8"x6"	9	Each
17	6" House Connection	20	Lin. Ft.



CKD. [Signature]
 CORR. [Signature]
 BK. CKD. [Signature]
 DATE: 1/27/78

CUT
 STATION

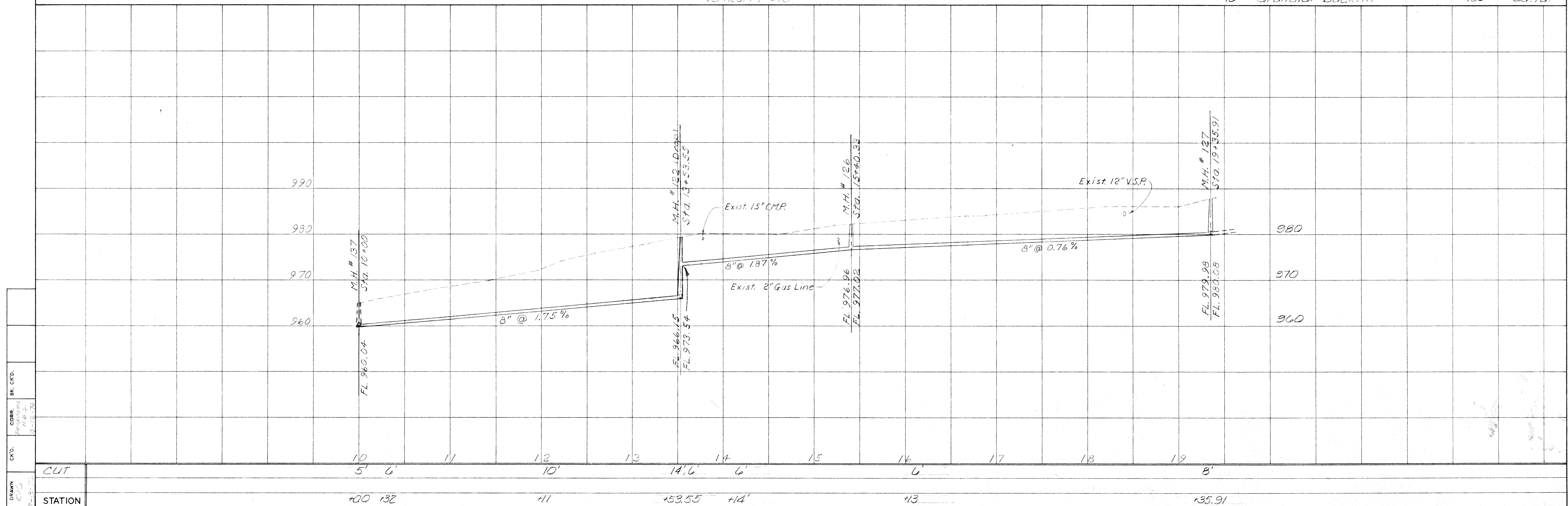


- ① James H. & Verna B. Everett
- ② David L. Chippis
- ③ Ruth A. Stokes
- ④ John D. & Berdona M. Hites
- ⑤ Thomas E. & Diane Hert

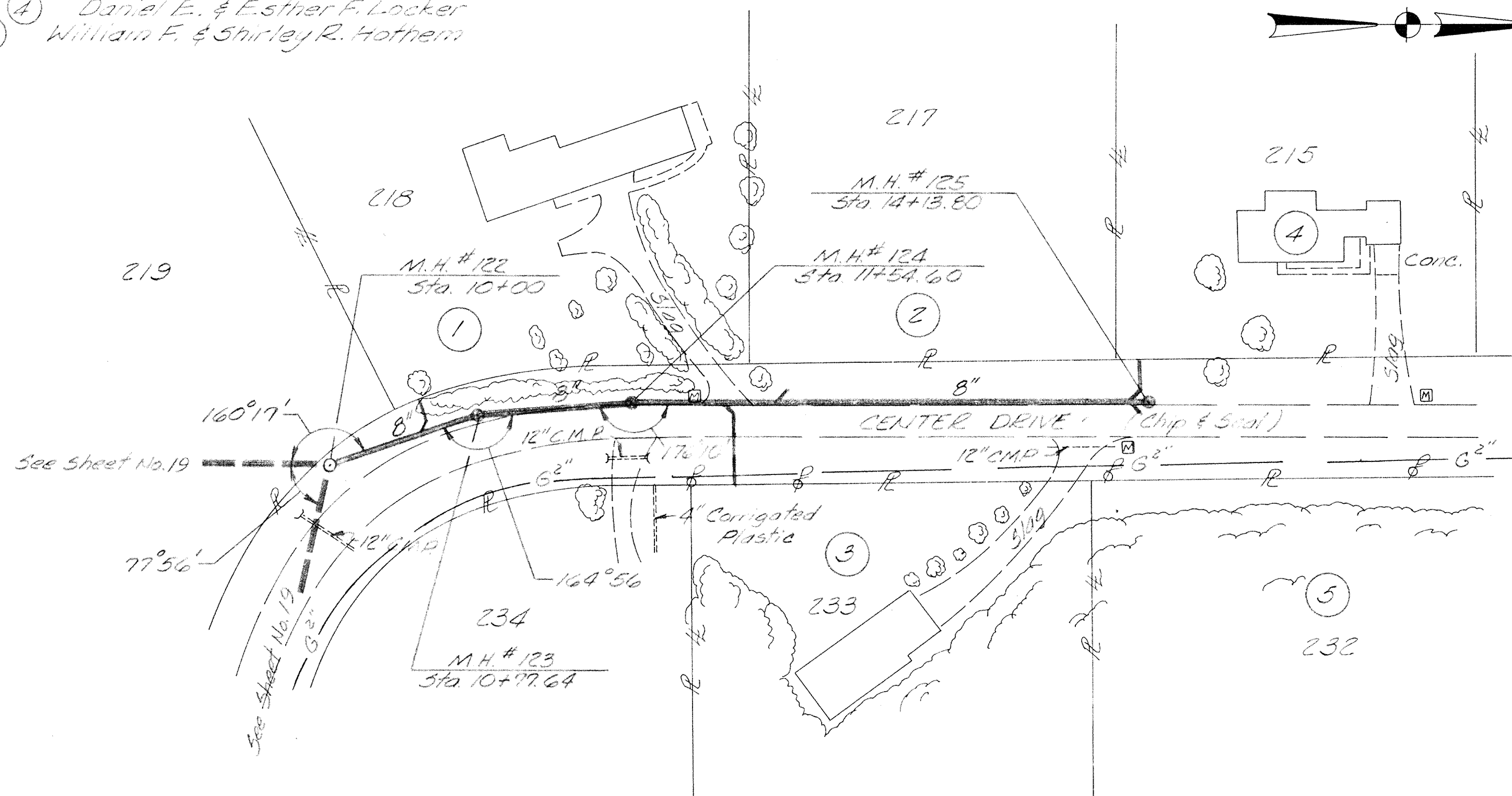
QUANTITIES

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	231	Lin. Ft.
2	8" Sewer Pipe, 6-10' Deep	503	Lin. Ft.
3	8" Sewer Pipe, 10-14' Deep	143	Lin. Ft.
9	Manholes, 0-6' Deep	1	Each
10	Manholes, 6'-10' Deep	1	Each
13	Drop Manholes,	1	Each
15	Wyes, 8" x 6"	5	Each
17	6" House Connection	70	Lin. Ft.
18	Granular Backfill	120	Cu. Yd.

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'



- ① James D. & Wilma C. Everett
- ② James H. & Verna B. Everett
- ③ Robert W. & Mary E. Haren
- ④ Daniel E. & Esther F. Locker
- ⑤ William F. & Shirley R. Hoffern



QUANTITIES

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10" Deep	95	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	320	Lin. Ft.
11	Manholes, 6'-10" Deep	1	Each
12	Manholes, 10'-15" Deep	1	Each
14	Drop Manholes, 0'-15" Deep	1	Each
17	Wyes, 8"x6"	5	Each
19	6" House Connection	79	Lin. Ft.
20	Granular Backfill	63	Cu. Yd.

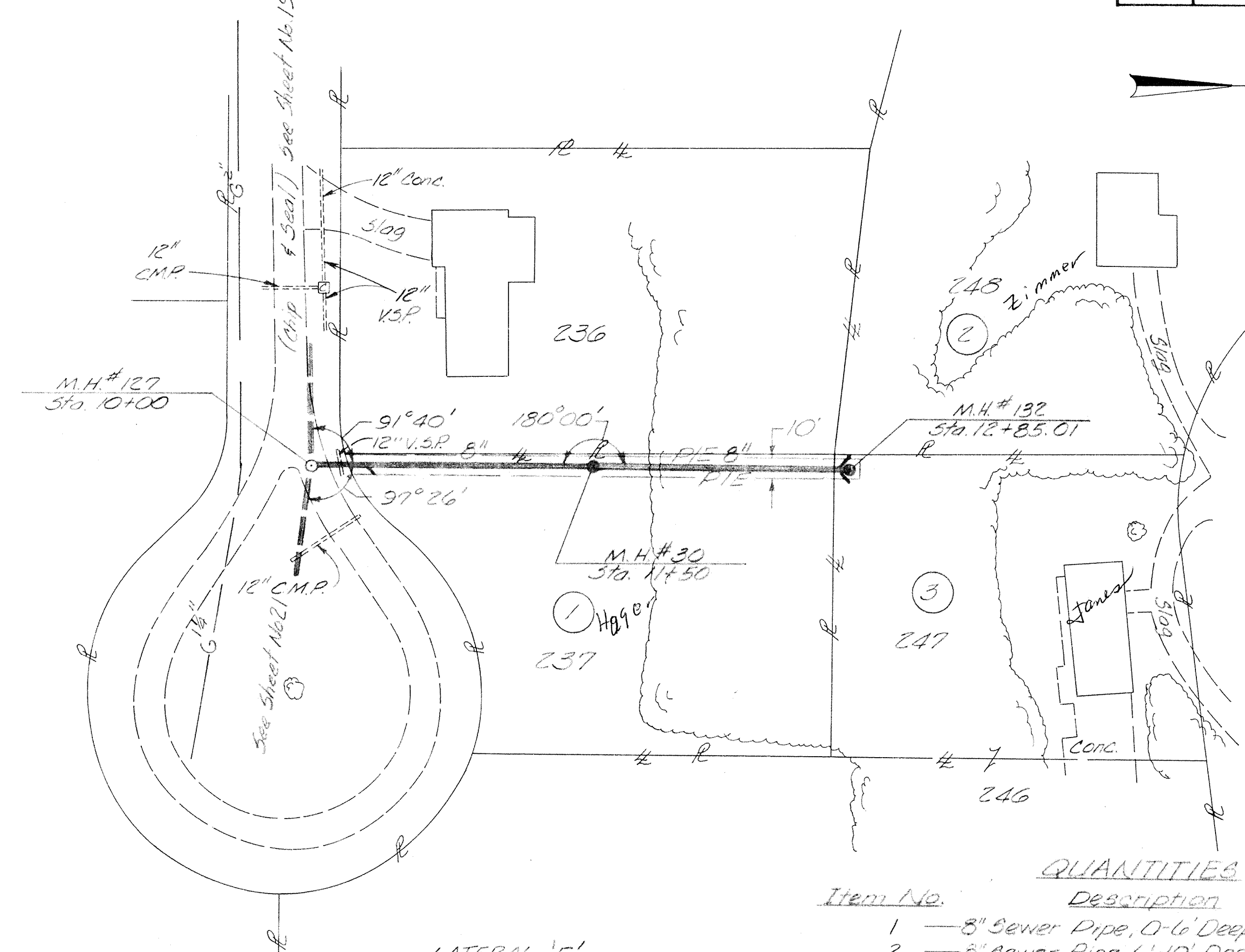
CENTER DRIVE LATERAL 'B'

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

- ① Patricia A. Hager
- ② Frederic M. & Olive C. Zimmer
- ③ Kermit L. & Betty Y. James

COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

20
69

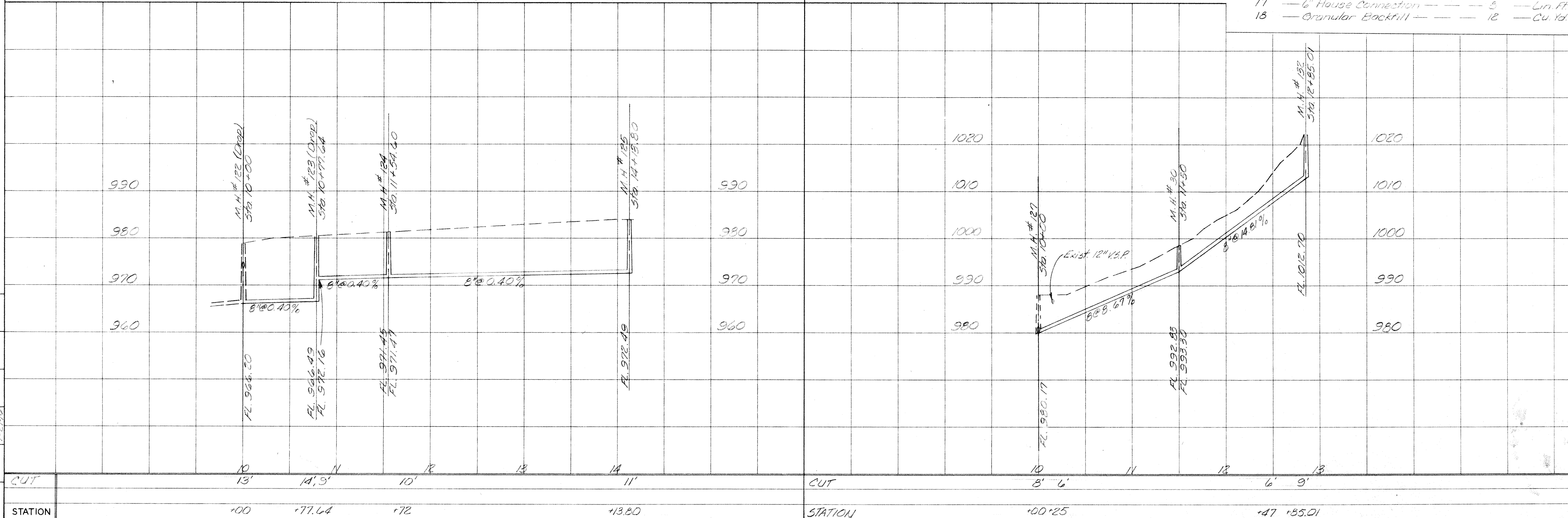


QUANTITIES

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6" Deep	222	Lin. Ft.
2	8" Sewer Pipe, 6'-10" Deep	64	Lin. Ft.
9	Manholes, 0'-6" Deep	1	Each
10	Manholes, 6'-10" Deep	1	Each
15	Wyes, 8"x6"	3	Each
17	6" House Connection	3	Lin. Ft.
18	Granular Backfill	12	Cu. Yd.

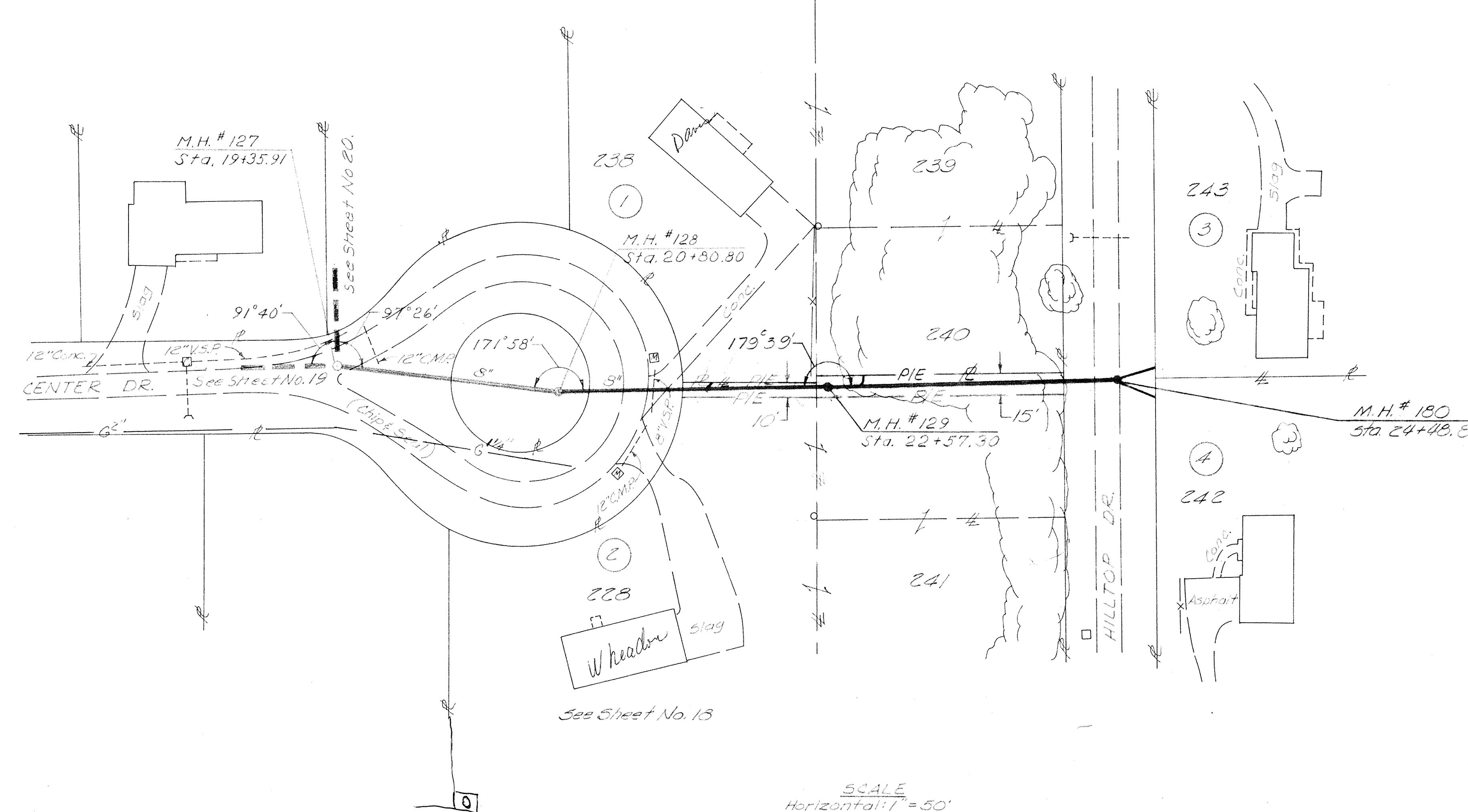
LATERAL 'F'

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'



CK'D. []
CORR. []
DRAWN []
DATE []

CUT	STATION	STATION	STATION	STATION	CUT	STATION	STATION
	+00	+77.64	+72	+13.80		+00+25	+17+85.01

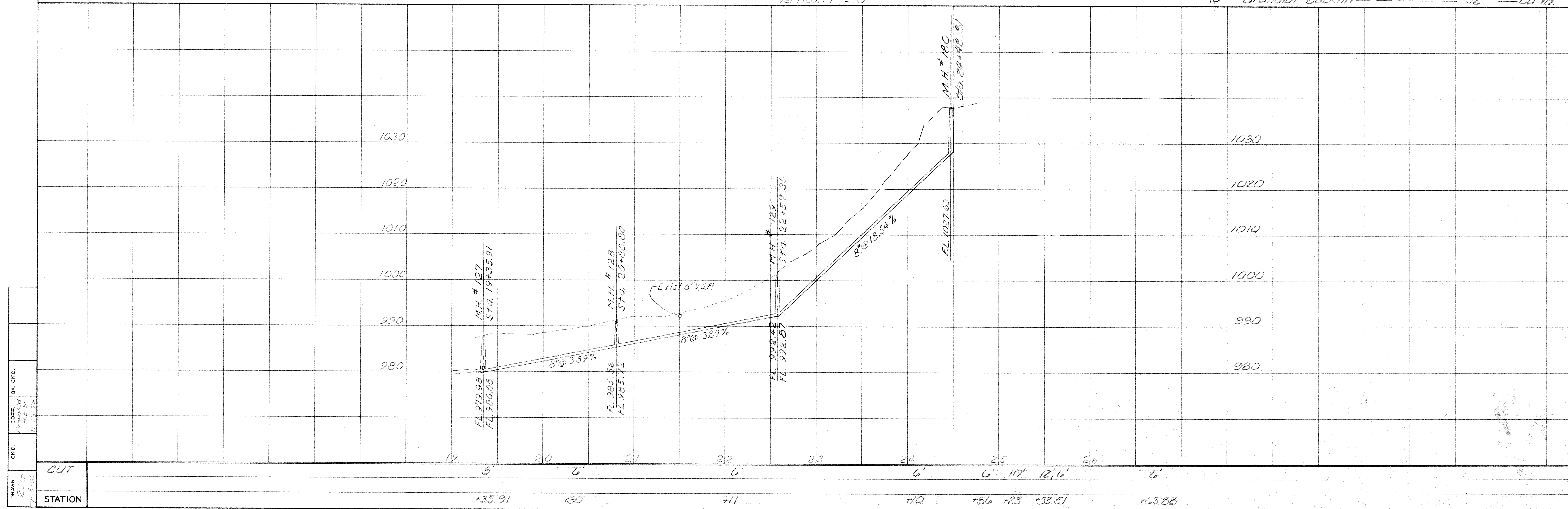


QUANTITIES

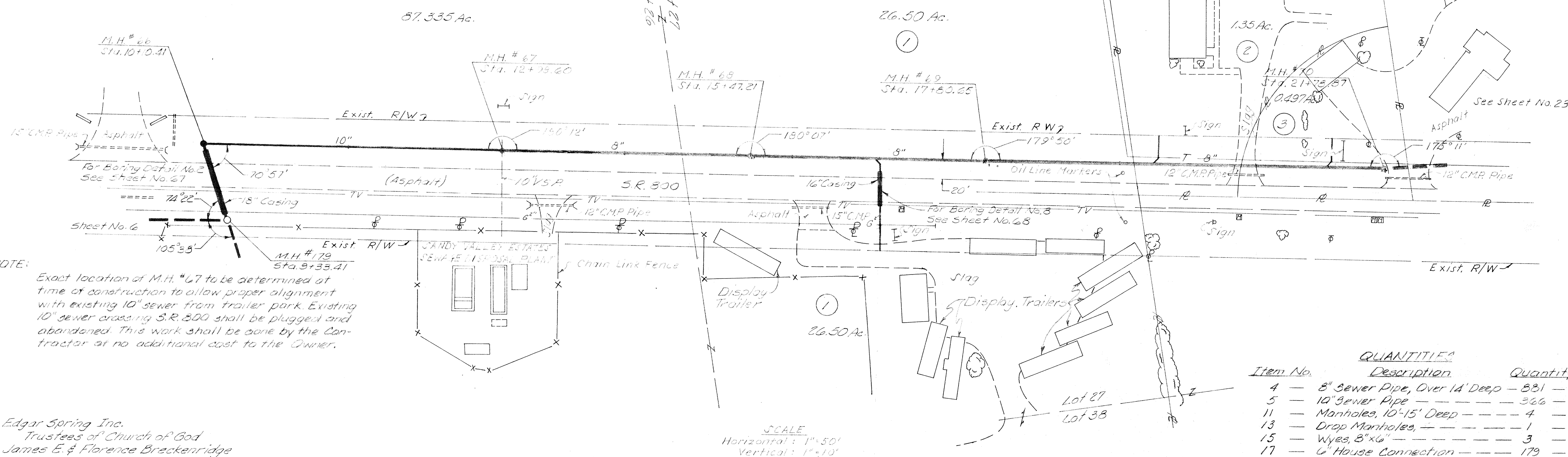
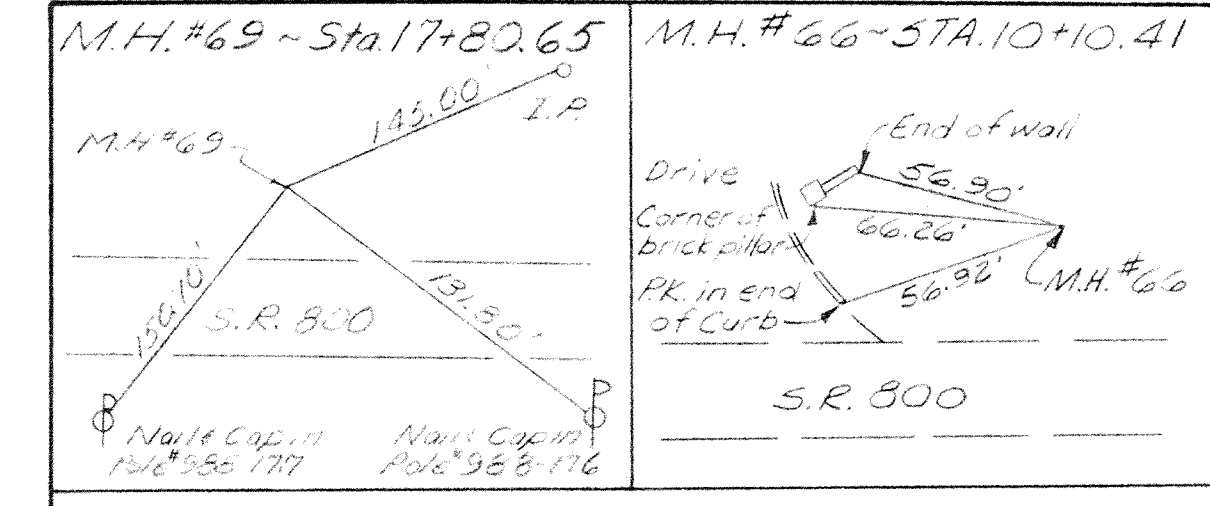
Item No	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6" Deep	181	Lin. Ft.
2	8" Sewer Pipe, 6'-10" Deep	297	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	36	Lin. Ft.
9	Manholes, 0'-6" Deep	1	Each
10	Manholes, 6'-10" Deep	2	Each
15	Wyes, 8" x 6"	2	Each
17	6" House Connection	52	Lin. Ft.
18	Granular Backfill	52	Cu Yd.

- ① Donald E. & Betty A. Davis
- ② John W. & Joan E. Wineadon
- ③ Adrian D. & W. Alice Devine
- ④ Ralph E. & Dorothy I. Huggins

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



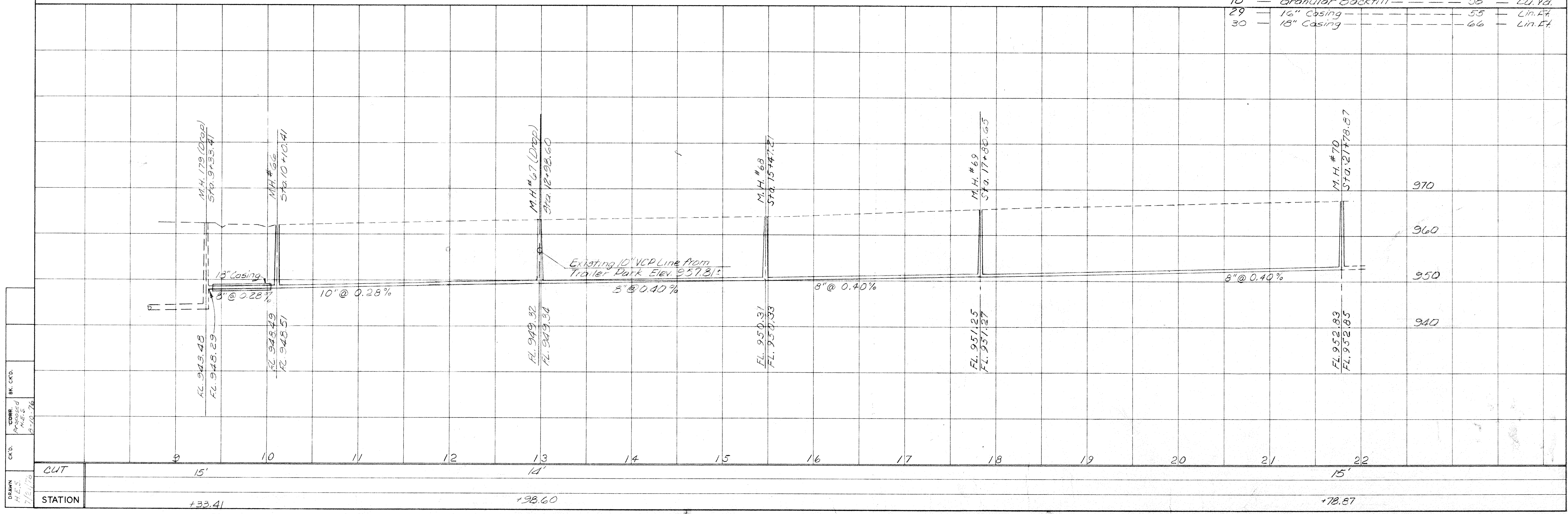
DRAWN: E.T.G. 7-13-74
CHKD.: B.K.C.F.D.
CORRE: H.E.S. 9-13-74



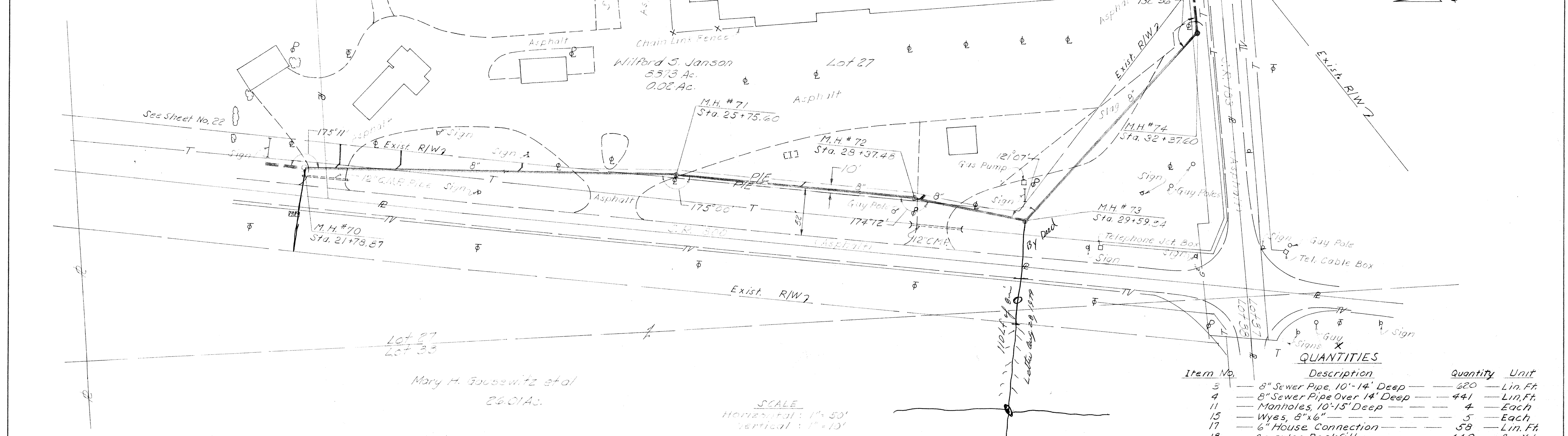
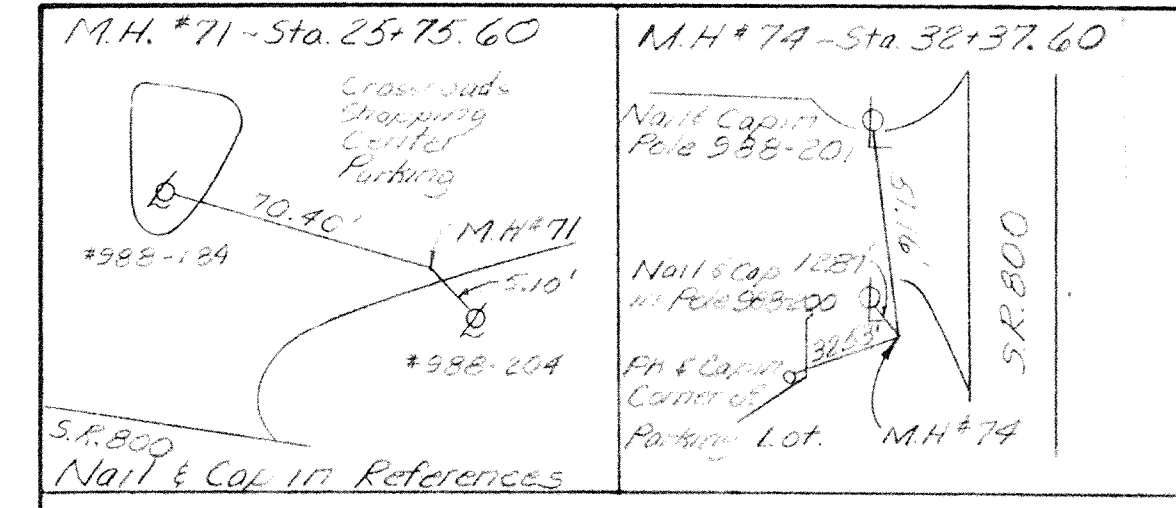
- ① Edgar Spring Inc.
- ② Trustees of Church of God
- ③ James E. & Florence Breckenridge

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

Item No.	Description	Quantity	Unit
4	8" Sewer Pipe, Over 14' Deep	831	Lin. Ft.
5	10" Sewer Pipe	366	Lin. Ft.
11	Manholes, 10'-15' Deep	4	Each
13	Drop Manholes	1	Each
15	Wyes, 8"x6"	3	Each
17	4" House Connection	179	Lin. Ft.
18	Granular Backfill	58	Cu. Yd.
29	16" Casing	55	Lin. Ft.
30	18" Casing	66	Lin. Ft.



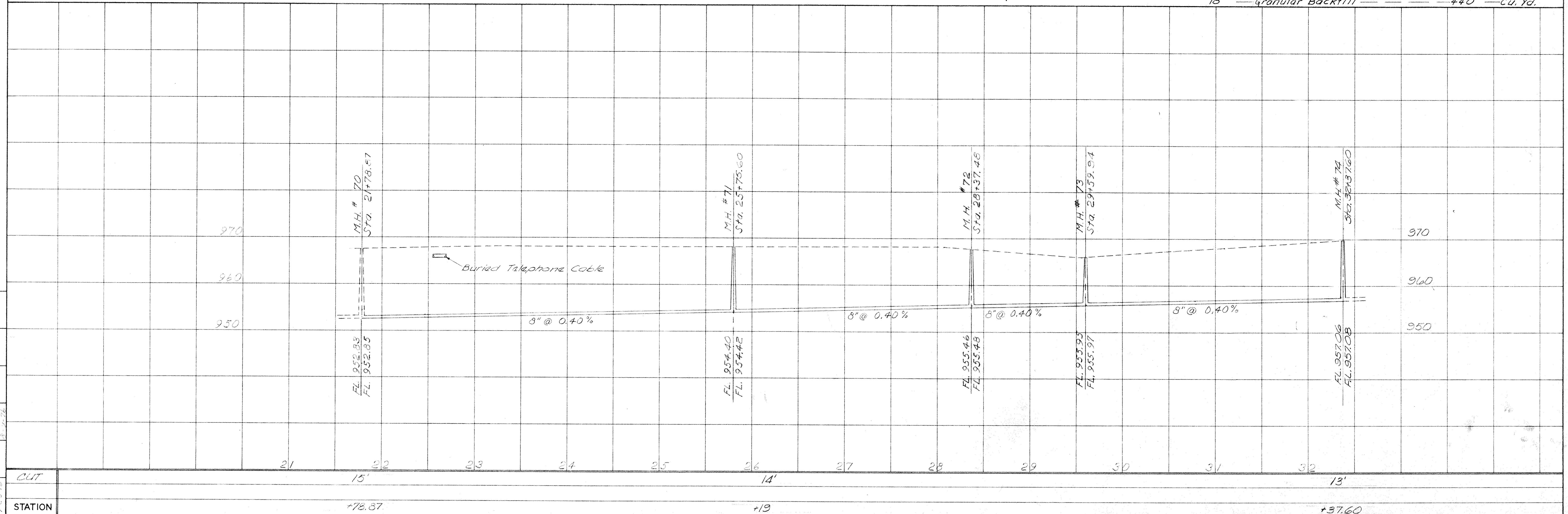
CKD. H.E.S. 7/8/78

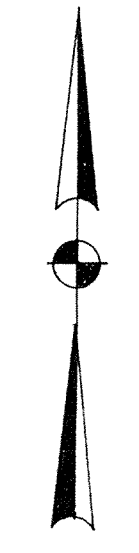


QUANTITIES

Item No.	Description	Quantity	Unit
3	8" Sewer Pipe, 10'-14" Deep	620	Lin. Ft.
4	8" Sewer Pipe Over 14" Deep	441	Lin. Ft.
11	Manholes, 10'-15" Deep	4	Each
15	Wyes, 8"x6"	5	Each
17	6" House Connection	58	Lin. Ft.
18	Granular Backfill	440	Cu. Yd.

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

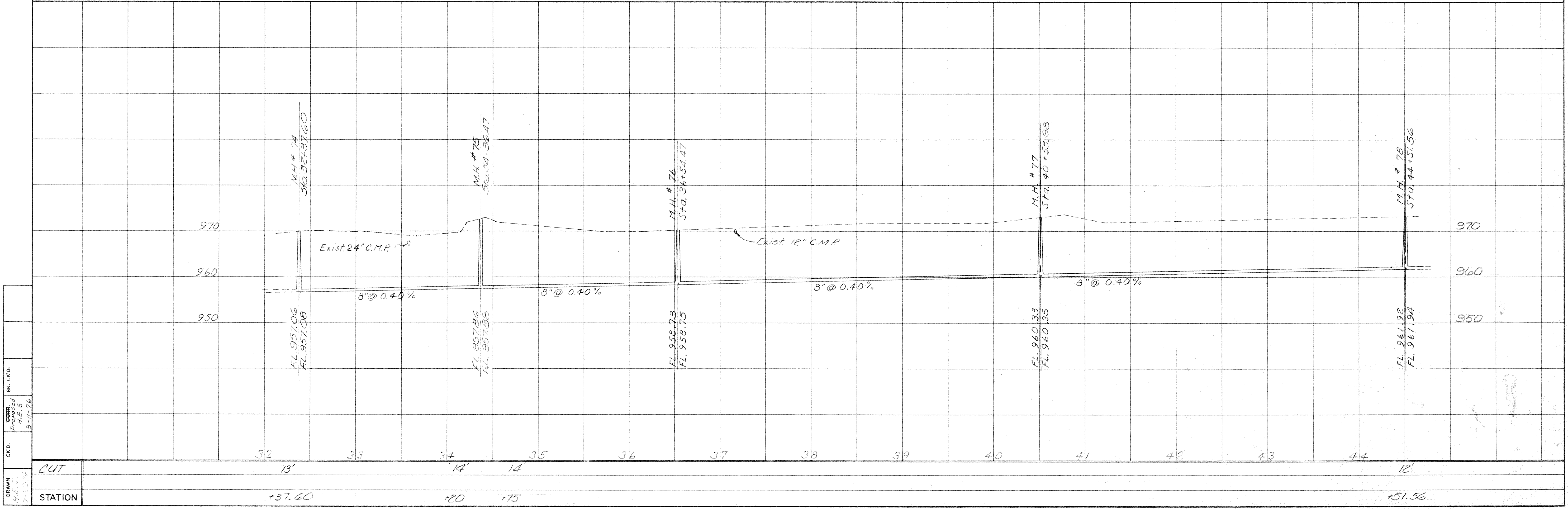




SCALE
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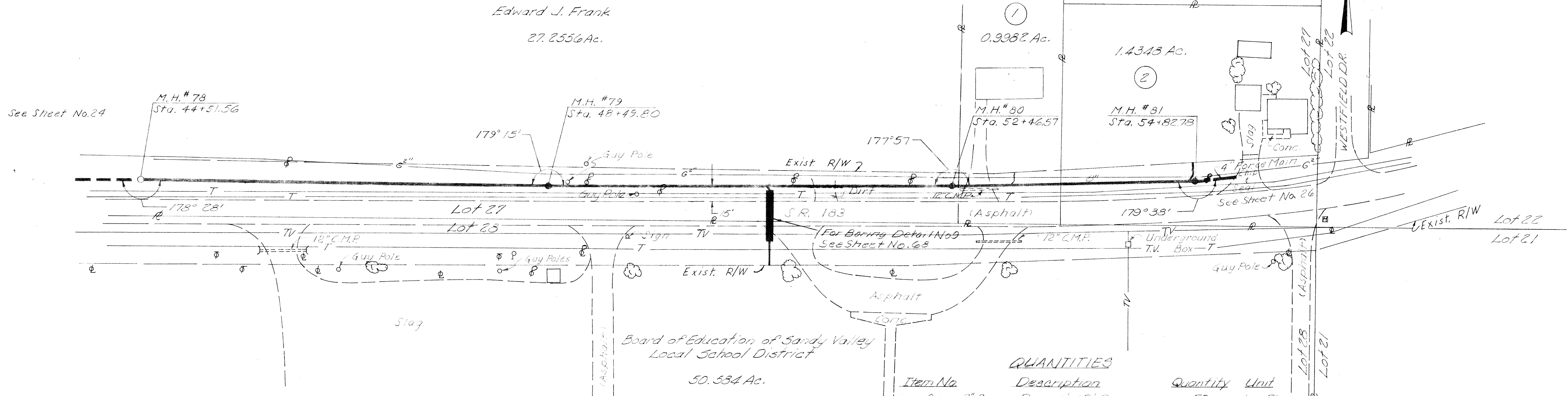
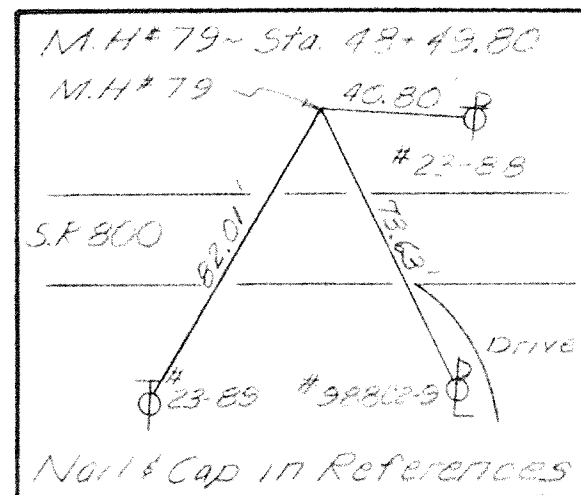
QUANTITIES

Item No.	Description	Quantity	Unit
3	8" Sewer Pipe, 10'-14' Deep	1160	Lin. Ft.
4	8" Sewer Pipe, Over 14' Deep	55	Lin. Ft.
11	Manholes, 10'-15' Deep	3	Each
12	Manholes, Over 15' Deep	1	Each
18	Granular Backfill	126	Cu. Yd.



CKD.
DRAWN
BY
DATE

CUT
STATION
13'
14'
14'
12'

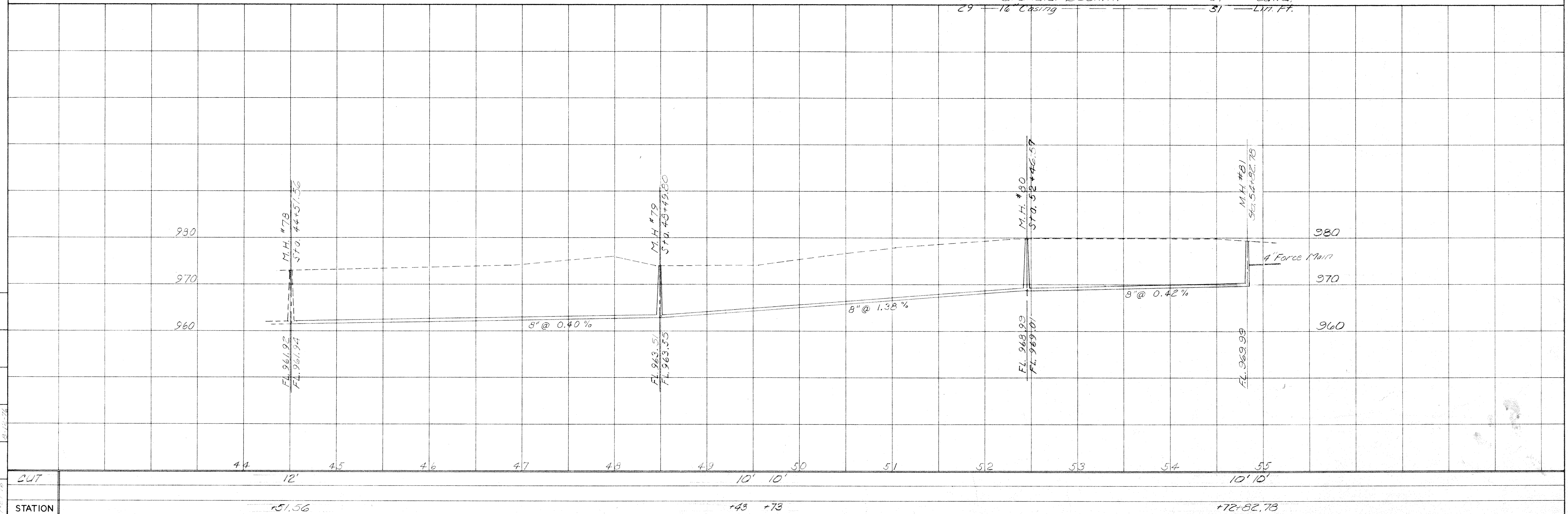


QUANTITIES

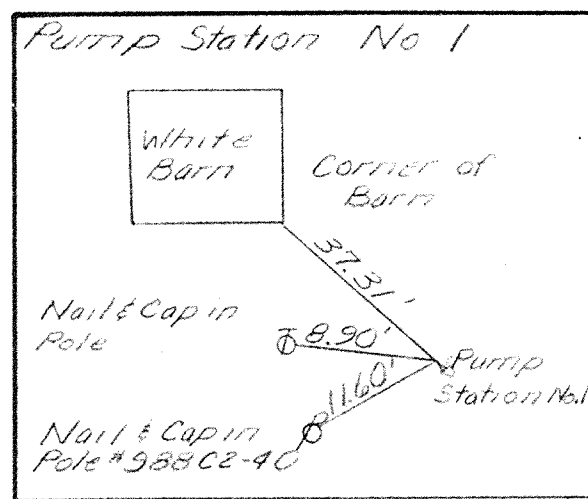
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	50	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	383	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
11	Manholes, 10'-15' Deep	2	Each
15	Wyes, 8"x6"	3	Each
17	6" House Connection	18	Lin. Ft.
18	Granular Backfill	34	Cu. Yd.
29	16" Casing	31	Lin. Ft.

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

① Kenneth D. & Sally A. Wolf
② Susan B. Bordner

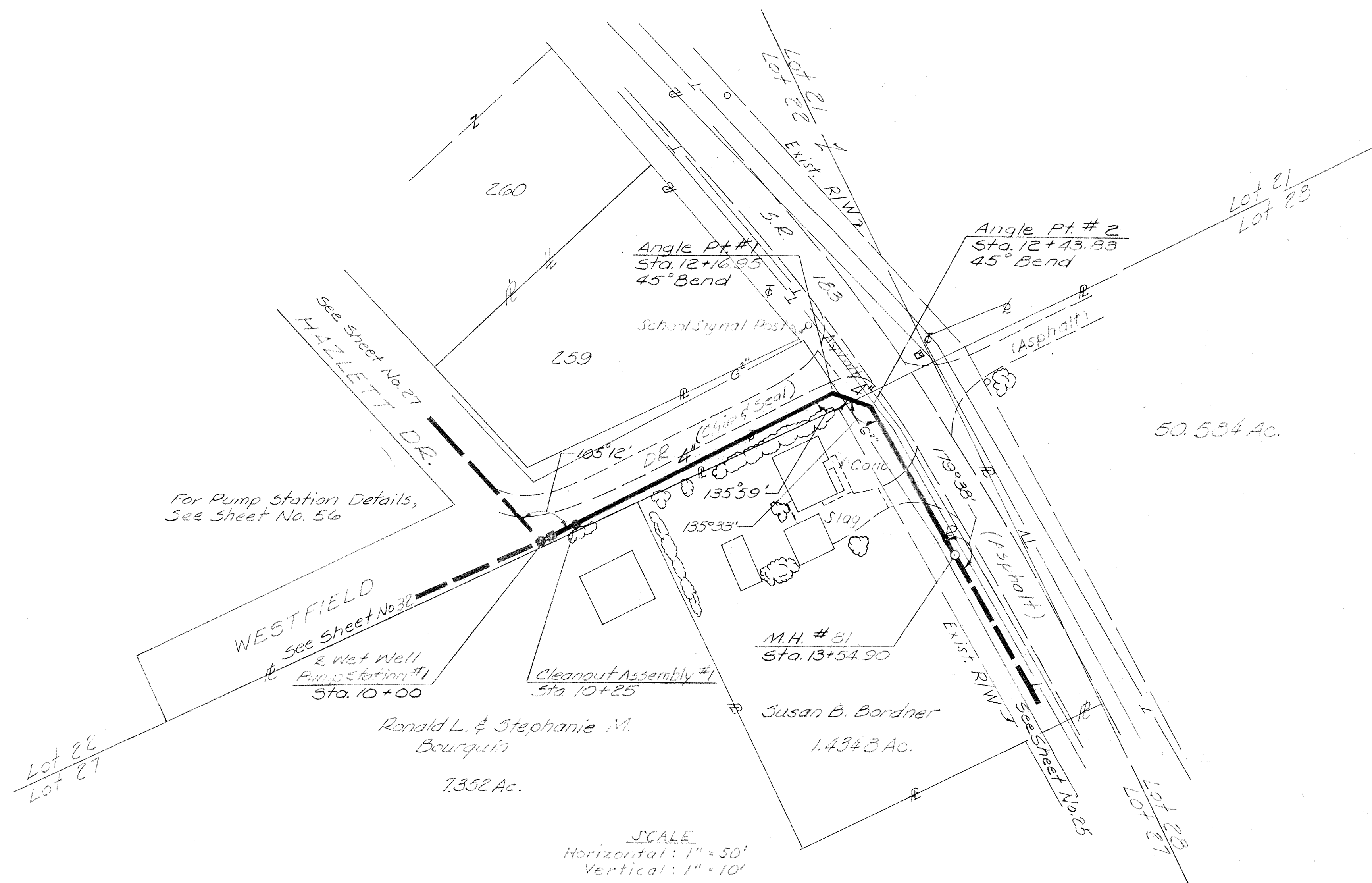


DRAWN: J.E.S.
 CHECKED: J.E.S.
 DESIGNED: J.E.S.
 BK. CKD.: J.E.S.
 CORE: J.E.S.
 CVD.: J.E.S.



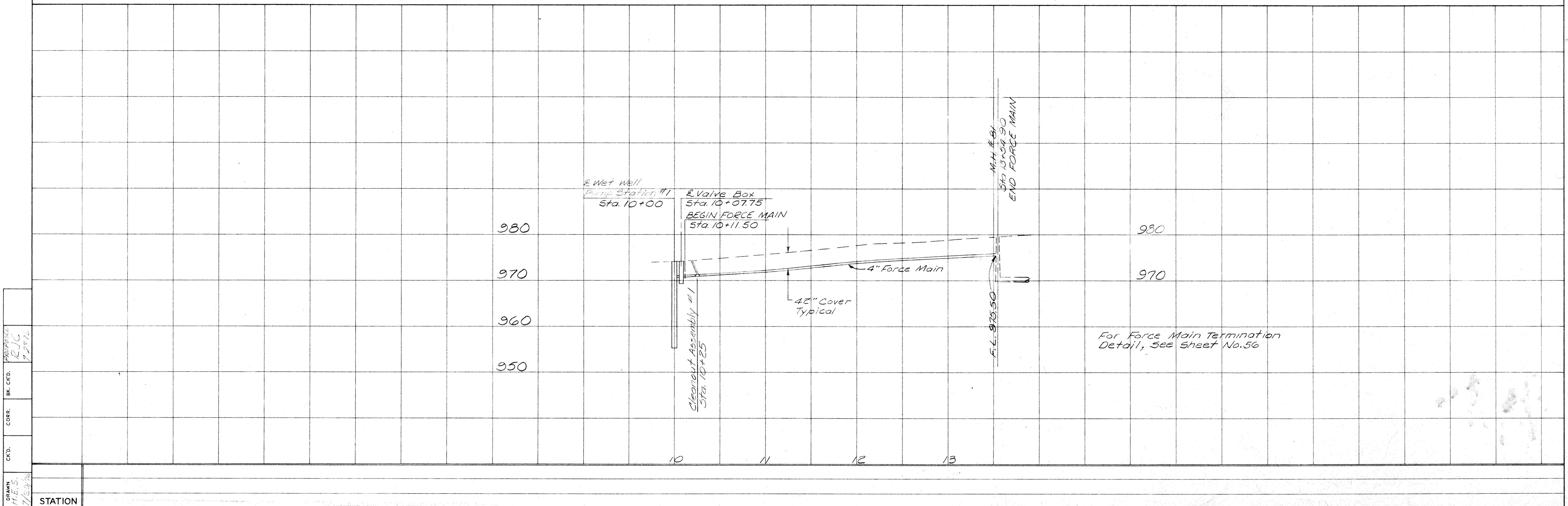
COMM. NO.	PROJECT	STATE
7443	SANDVILLE	OHIO

26
69



QUANTITIES

Item No.	Description	Quantity	Unit
19	4" Force Main	344	Lin. Ft.
22	Cleanout Assembly	1	Each
18	Granular Backfill	9	Cu. Yd.
35	Pump Station No. 1	1	Lump

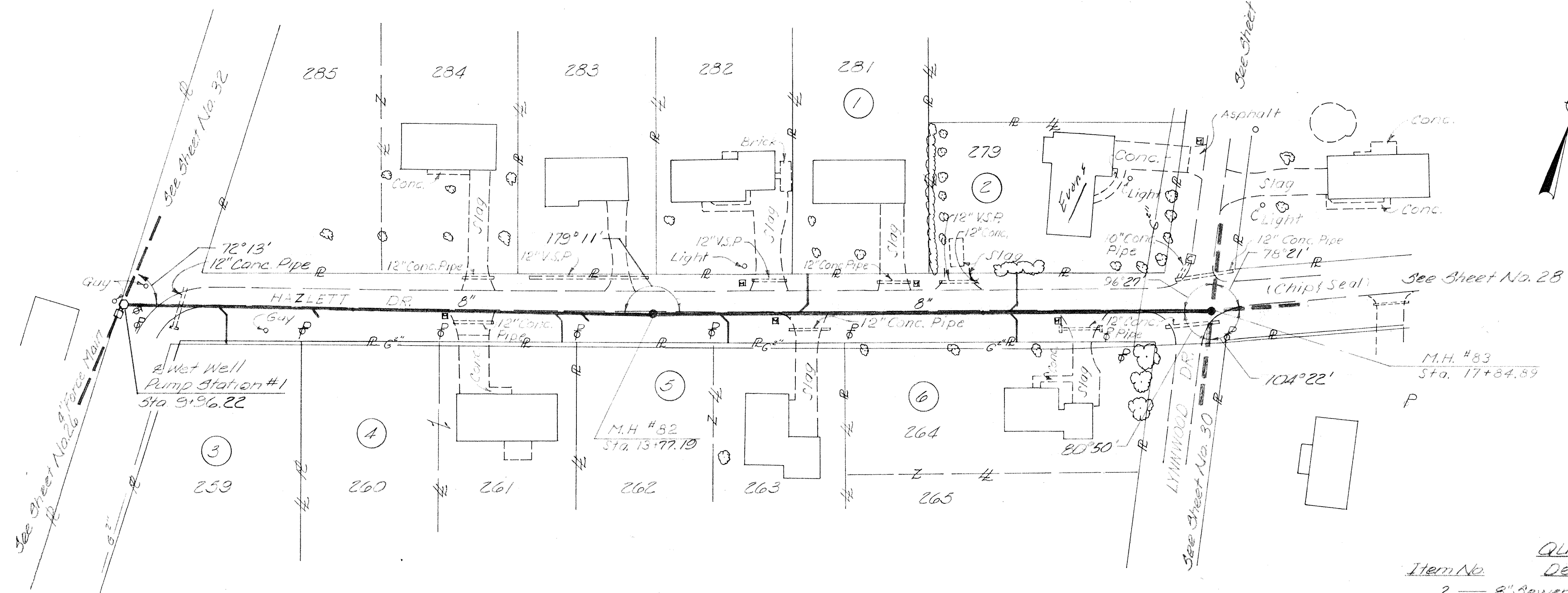
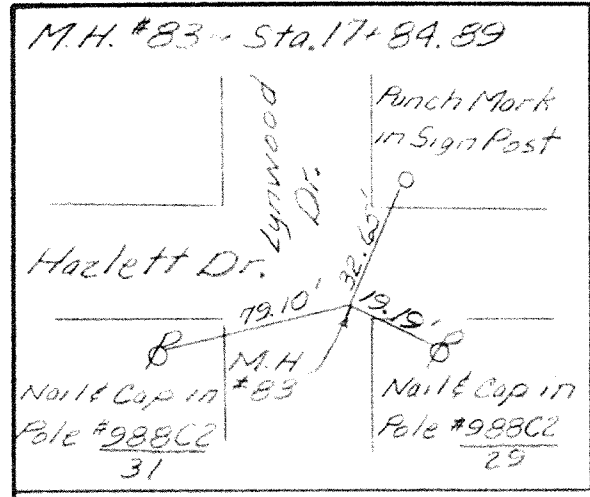


CD. H.E.S. 7/20/20

CHK. BK. CKD. 7/20/20

CORR. 7/20/20

STATION

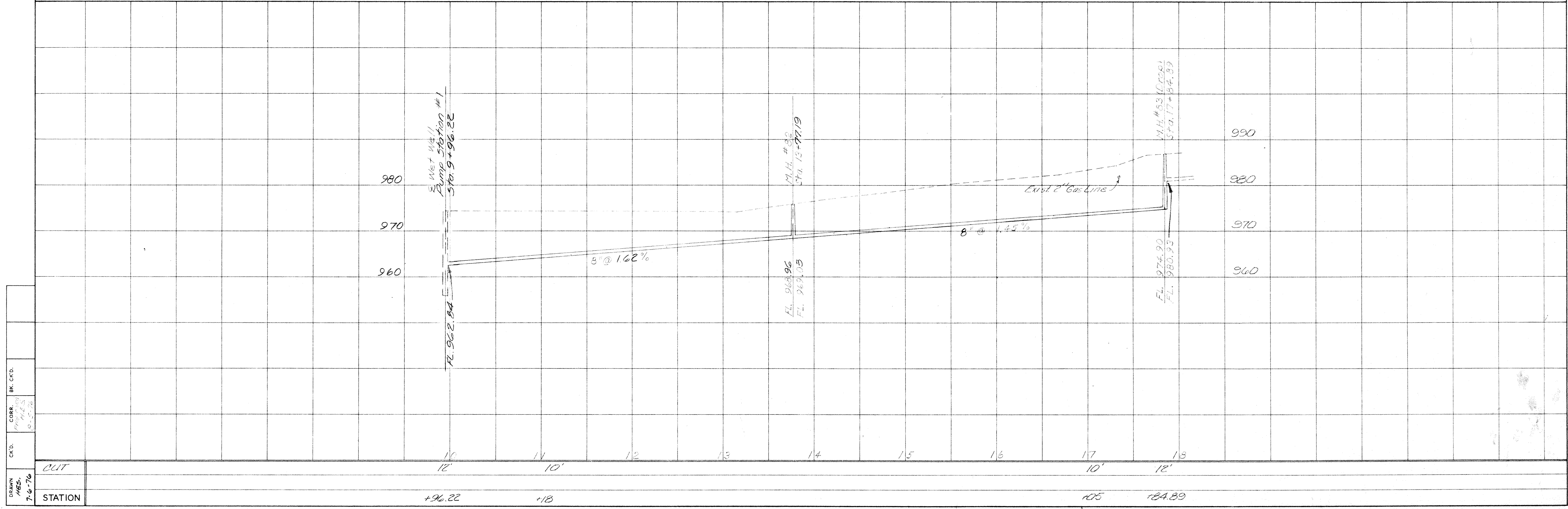


- ① Walter W. & Beatrice M. Dye
- ② Leonard P. & Edith M. Evans
- ③ Gregory & Frances M. Rodgers
- ④ Sam & Carmela Brio
- ⑤ John E. & JoAnn Thompson
- ⑥ George C. & Betty Hoagland

For Pump Station #1 Details, See Sheet No. 56

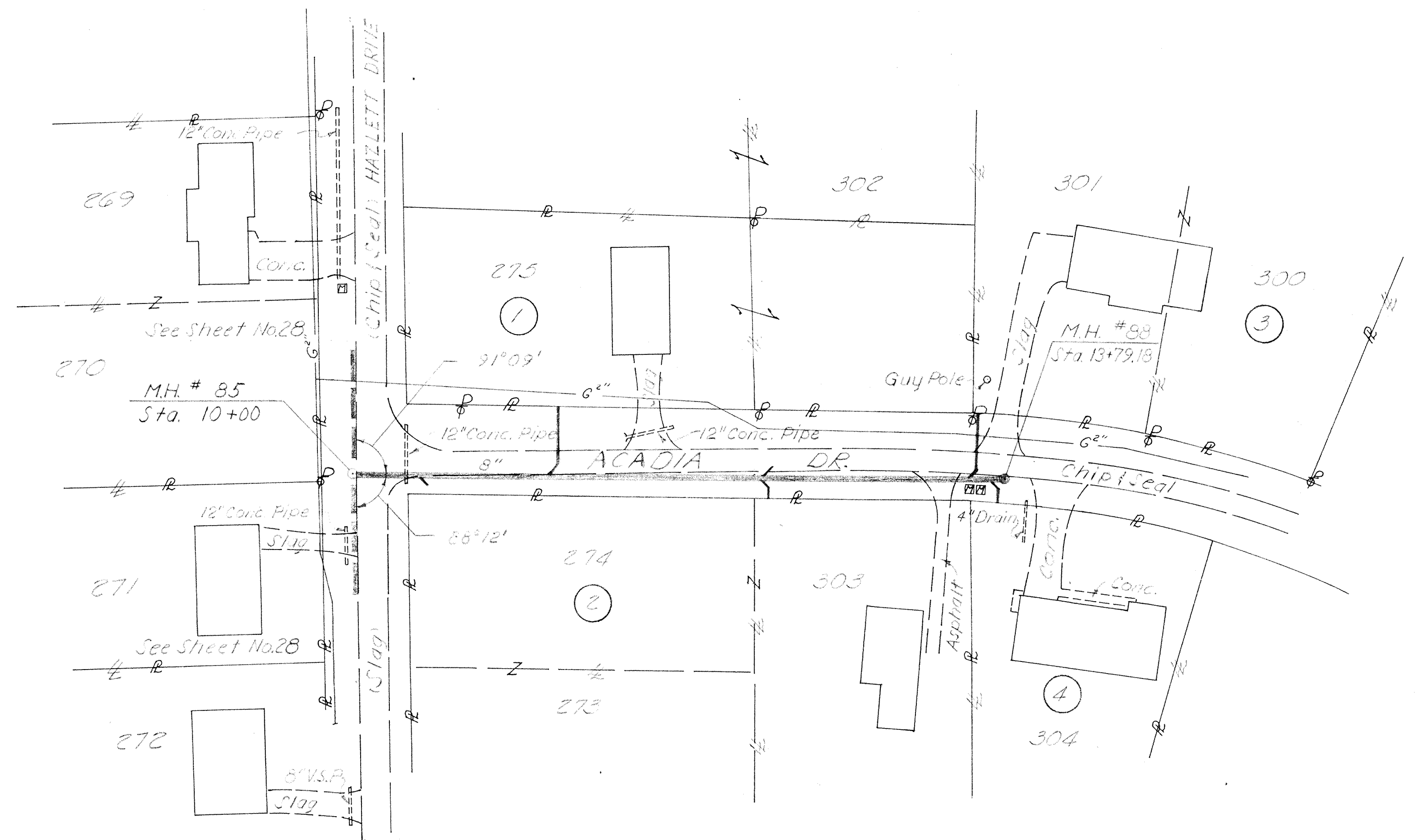
SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	587	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	202	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
13	Drop Manholes	1	Each
15	Wyes, 8" x 6"	7	Each
17	6" House Connection	148	Lin. Ft.
18	Granular Backfill	194	Cu. Yd.



DRAWN: HES, 7-6-76
CHK'D: BK, CRD.
CORR. PREPARED: H.E.S., 8-5-76

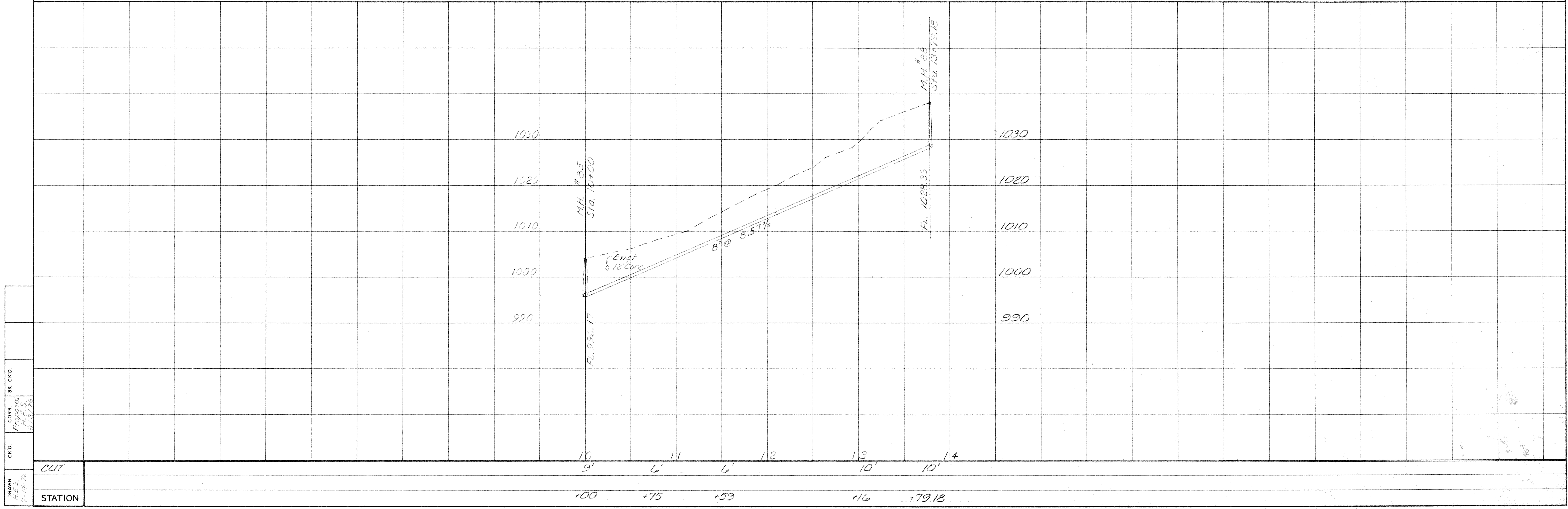
STATION
96.22 78 84.89



- ① Ralph R. & Carolyn L. Brock
- ② Carl D. & Fern E. Braschler
- ③ Jeffrey W. & Patricia Dazey
- ④ Ray W. & Carol S. Brown

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	84	Lin. Ft.
2	8" Sewer Pipe, 6-10' Deep	232	Lin. Ft.
3	8" Sewer Pipe, 10-14' Deep	64	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
15	Wyes, 8"x6"	6	Each
17	6" House Connection	105	Lin. Ft.
18	Granular Backfill	111	Cu. Yd.

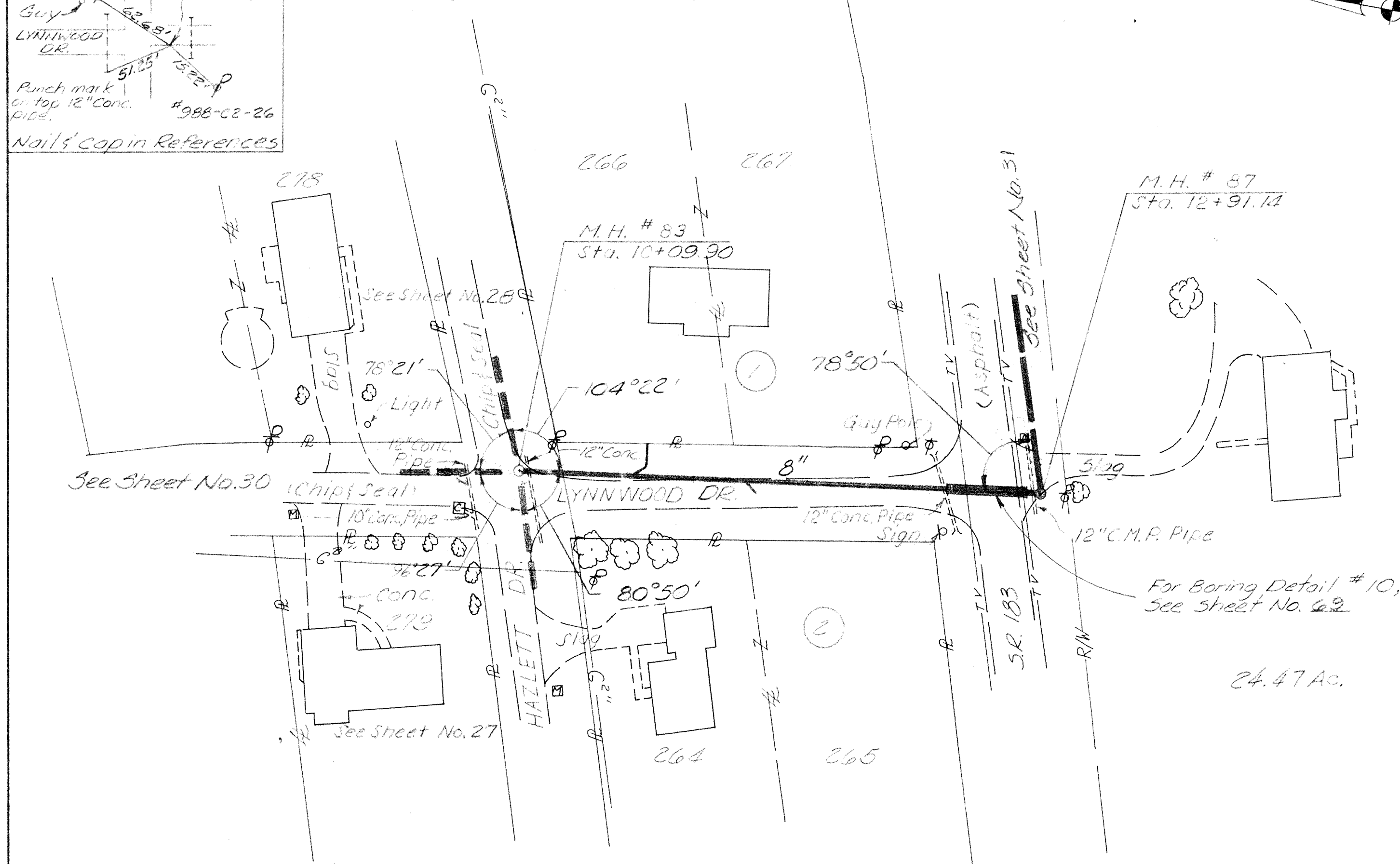


CHKD. BY: []
CORR. PROPOSED: []
DATE: []
DRAWN: []
DATE: []

M.H. #87-Sta. 12+86.53

#23/81
SR 183
LYNNWOOD DR.
M.H. #87
Nail & Cap in References
#986-02-26

1 Nick J. & Karen R. S. Koon
2 George C. & Betty J. Hoag and



LYNNWOOD DR. LATERAL 'B'

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

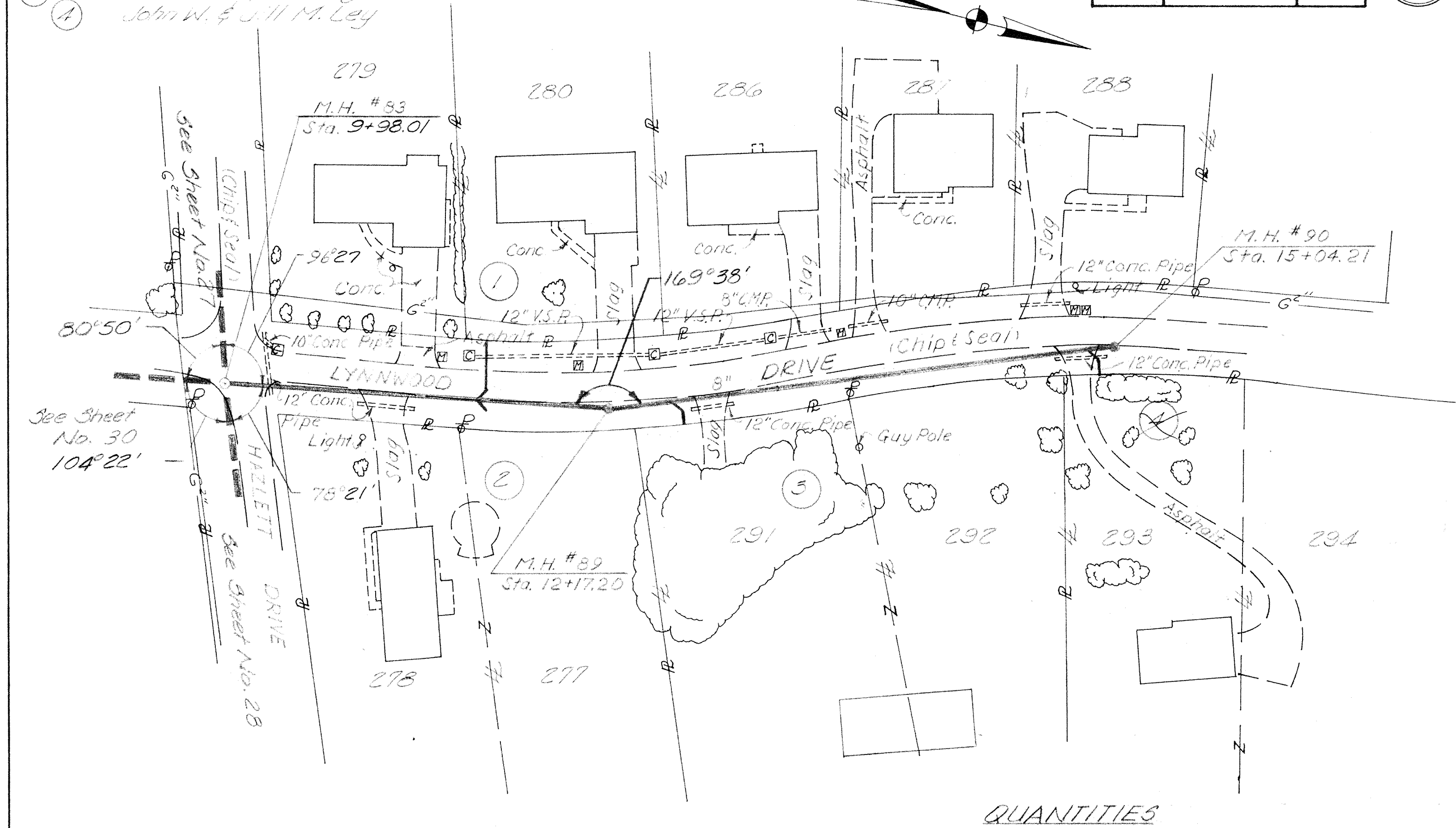
QUANTITIES

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	180	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	103	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
15	Wyes, 8"x6"	2	Each
17	6" House Connection	12	Lin. Ft.
18	Granular Backfill	57	Cu. Yd.
30	18" Casing	51	Lin. Ft.

1 Glenn R. Norton
2 Arthur Michael III & Barbara Sue Gremminger
3 Robert L. Jr. & Beverly A. Resler
4 John W. & Jill M. Lay

COMM. NO. 7443
PROJECT SANDYVILLE
STATE OHIO

30
69

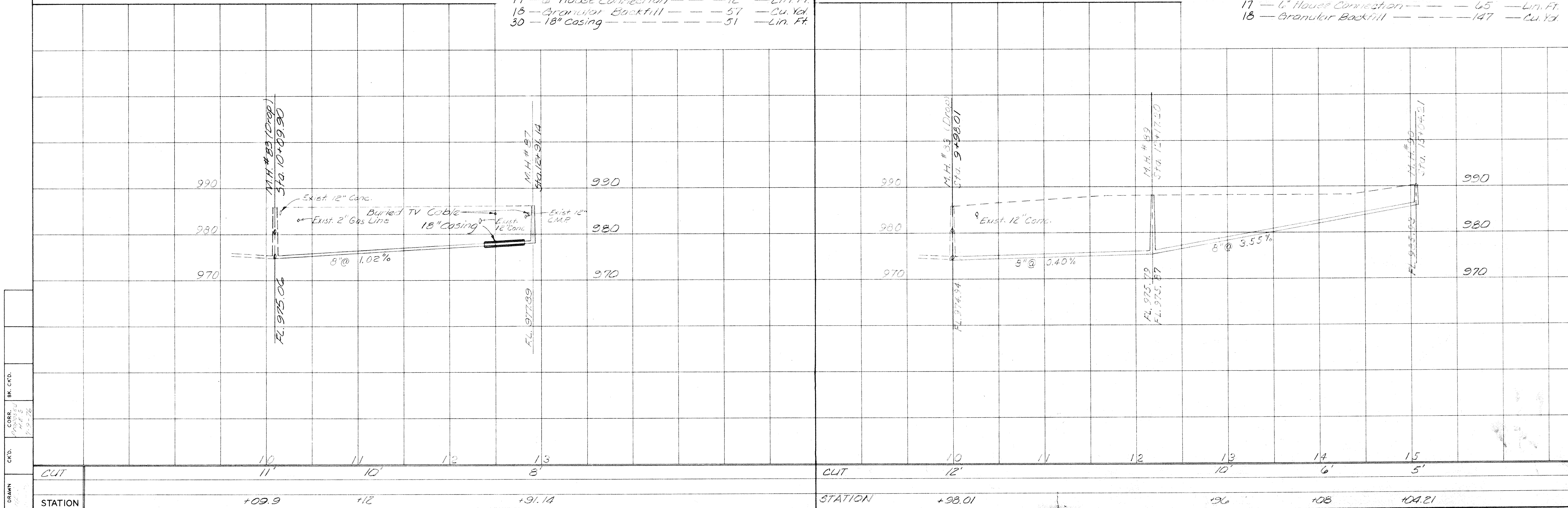


LYNNWOOD DR. LATERAL 'A'

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

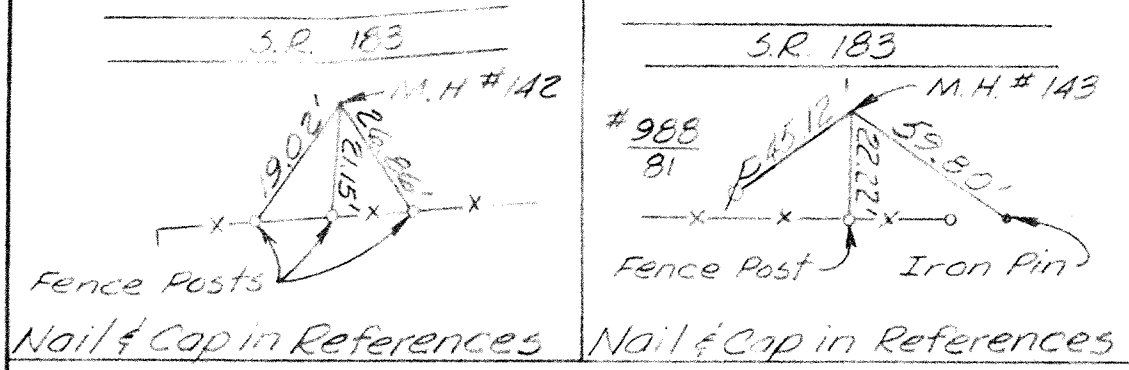
QUANTITIES

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6' Deep	97	Lin. Ft.
2	8" Sewer Pipe, 6'-10' Deep	112	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	298	Lin. Ft.
9	Manholes, 0'-6' Deep	1	Each
11	Manholes, 10'-15' Deep	1	Each
15	Wyes, 8"x6"	4	Each
17	6" House Connection	65	Lin. Ft.
18	Granular Backfill	147	Cu. Yd.



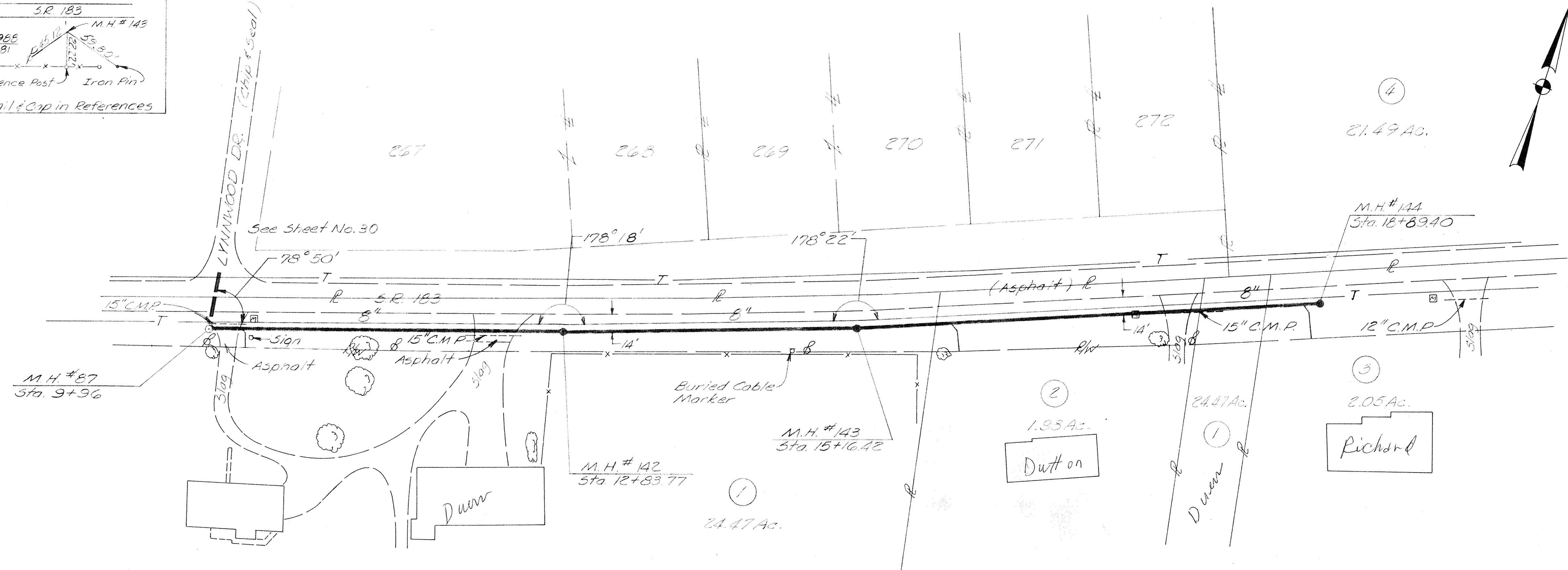
DRAWN
CHECKED
CORRECTED
BY C.K.D.
DATE 5/19/76

M.H. #142 ~Sta. 12+83.77 M.H. #143 ~Sta. 15+16.42



COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

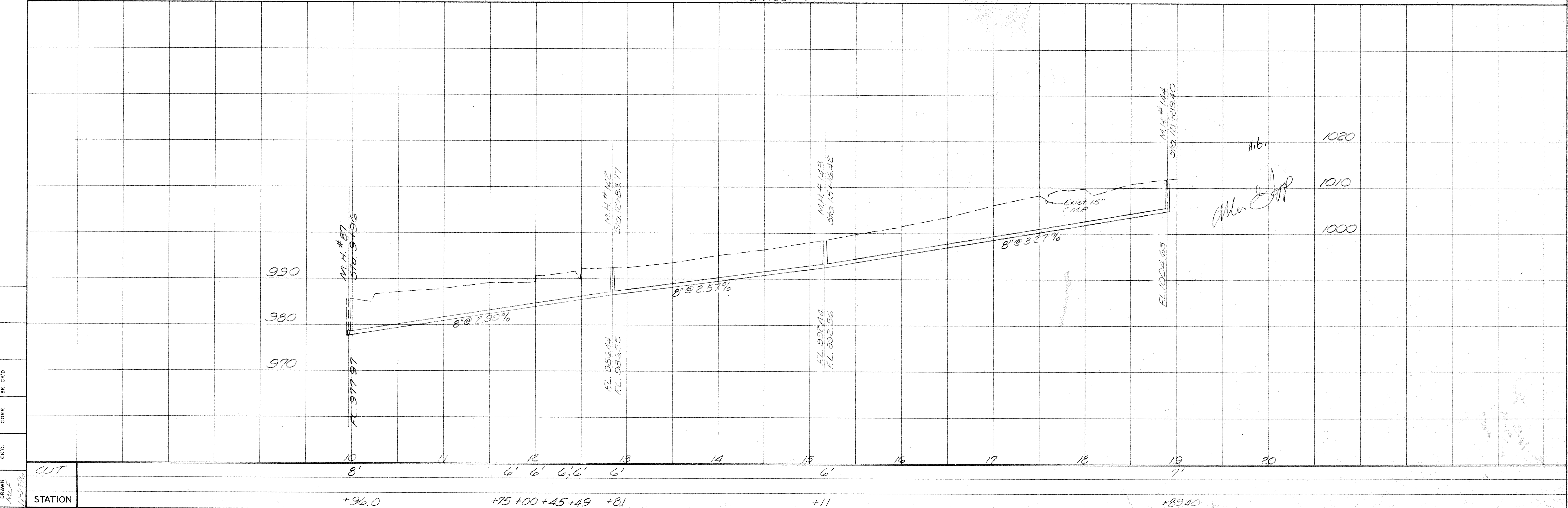
31
69



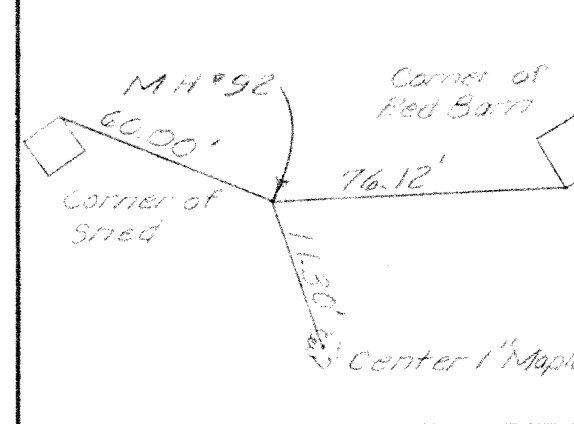
- ① Stanley & Evelyn Quarr
- ② James H. & Betty Z. Dutton
- ③ John V. & Charlotte M. Richard
- ④ Carl O. & Fern E. Blasenbauer

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

Item No.	Description	Quantity	Unit
1	8" sewer Pipe, 0'-6' Deep	259	Lin. Ft.
2	8" sewer Pipe, 6'-10' Deep	636	Lin. Ft.
10	Manholes, 6'-10' Deep	3	Each
15	Wyes, 8"x 6"	3	Each
17	6" House Connection	69	Lin. Ft.
18	Granular Backfill	65	Cu. Yd.

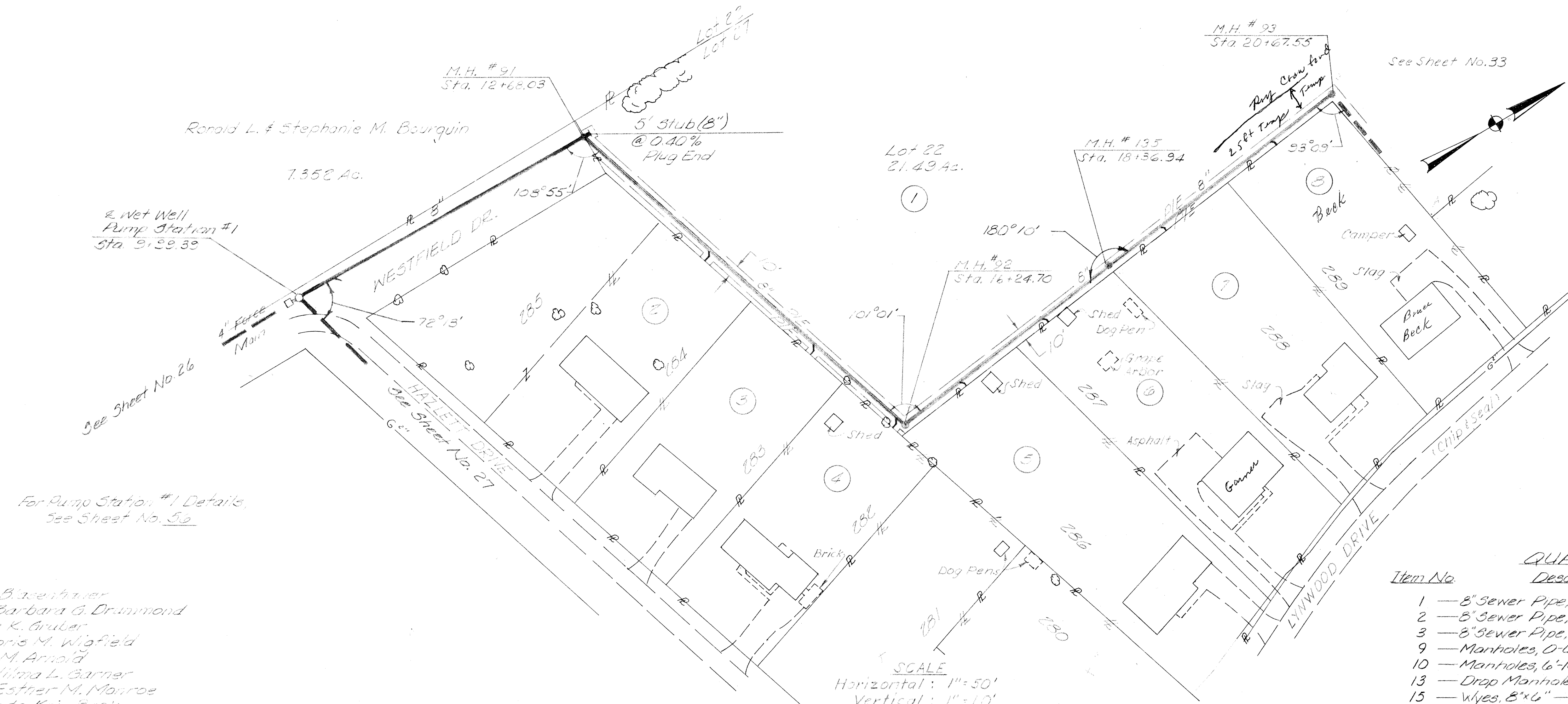


M.H. #92 Sta. 16+24.70



COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

32
69

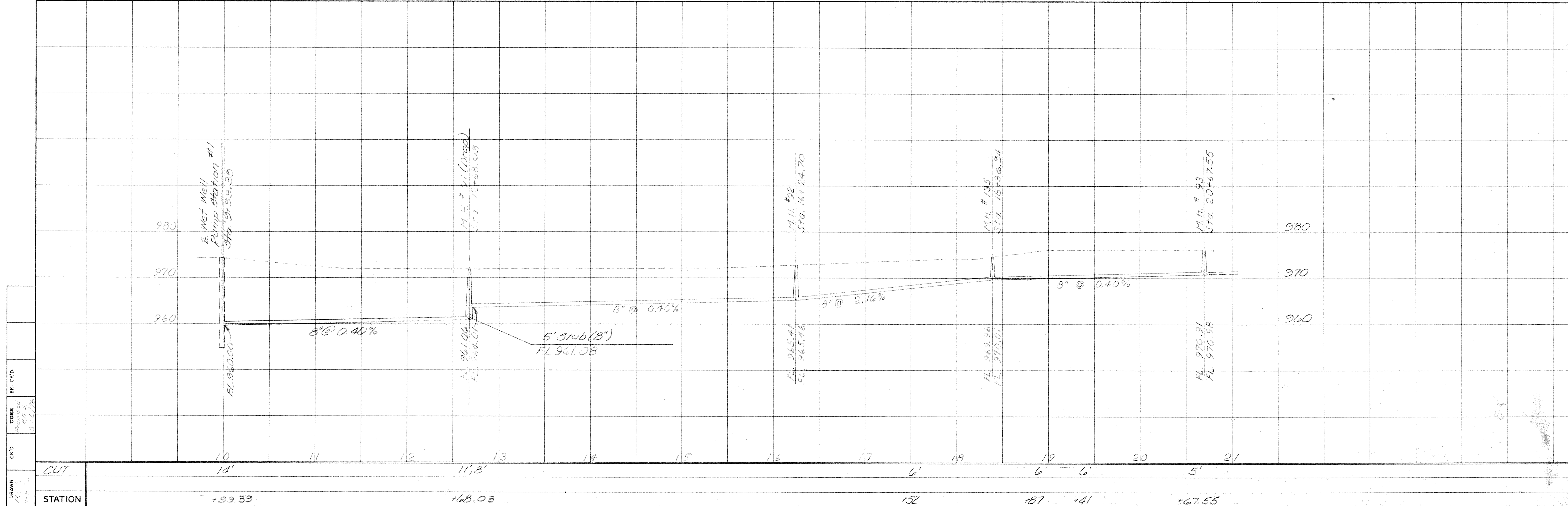


For Pump Station #1 Details, See Sheet No. 30

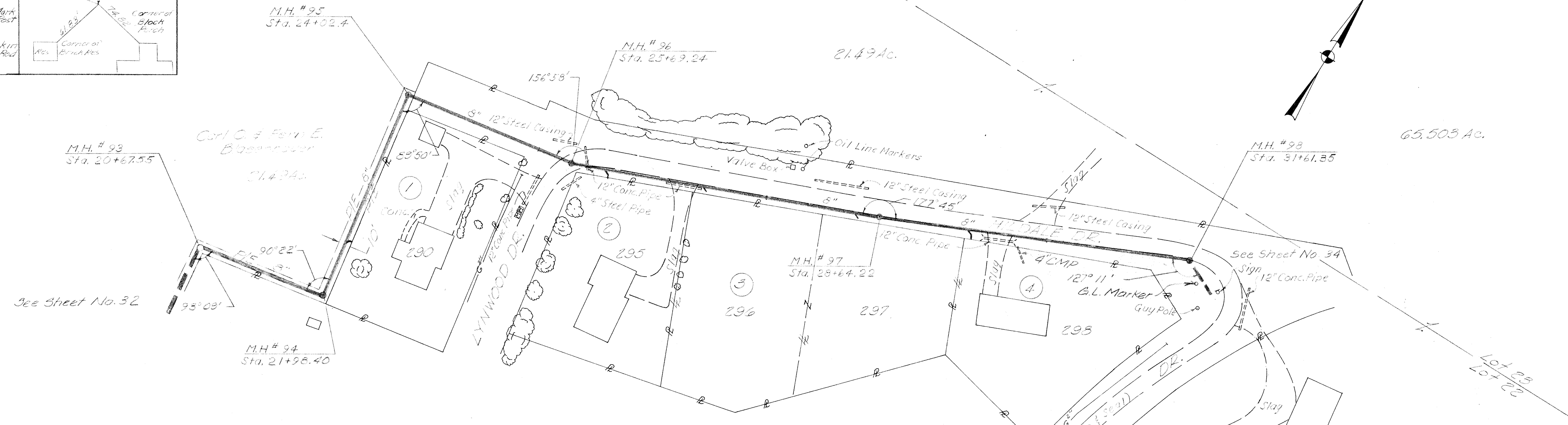
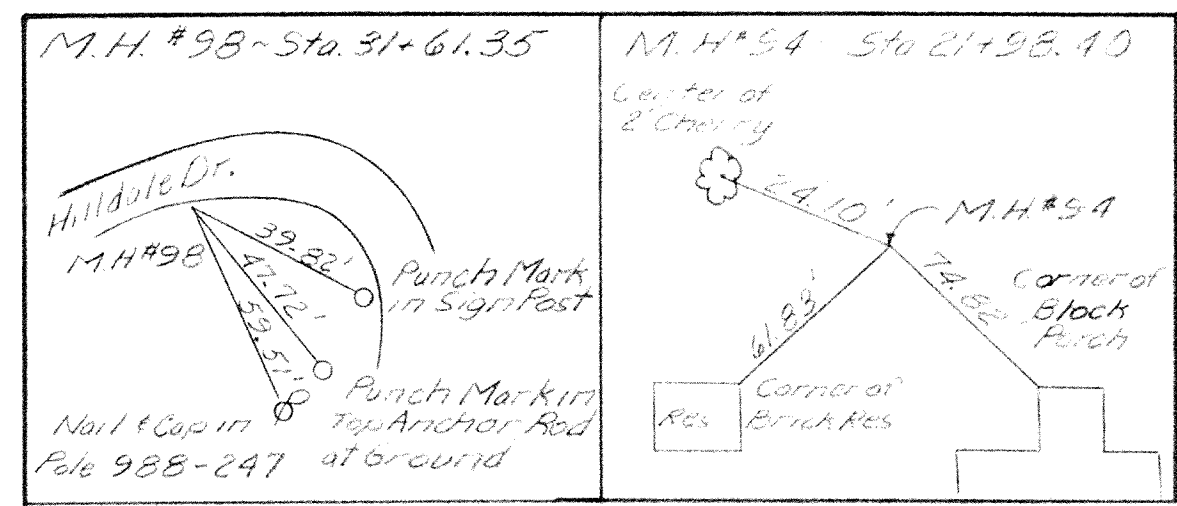
- ① Carl O. & Fern E. Blasenbauer
- ② Charles D. & Barbara G. Drummond
- ③ Mark W. & Diane K. Gruber
- ④ Donald E. & Doris M. Wigfield
- ⑤ Paul R. & Wanda M. Arnold
- ⑥ Robert C. & Wilma L. Garner
- ⑦ Kenneth E. Sr. & Esther M. Monroe
- ⑧ Bruce B. & Linda Kay Beck

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6" Deep	262	Lin. Ft.
2	8" Sewer Pipe, 6'-10" Deep	536	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	269	Lin. Ft.
9	Manholes, 0'-6" Deep	2	Each
10	Manholes, 6'-10" Deep	1	Each
13	Drop Manholes	1	Each
15	Wyes, 8"x6"	8	Each
17	4" House Connection	49	Lin. Ft.

SCALE
Horizontal: 1"=50'
Vertical: 1"=10'



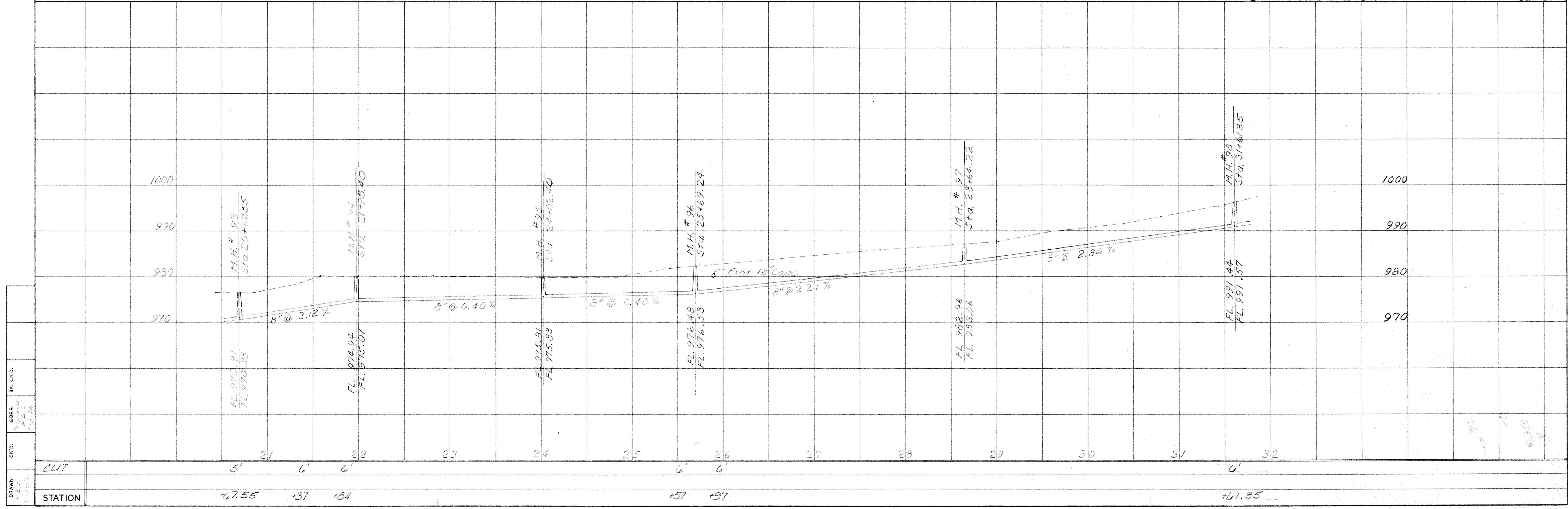
BR. CK'D.
CONS. Proposed
5/26/26
CK'D.
DRAWN



- ① Carl H. & Jane L. Fry
- ② Donald R. & Janet E. Tanner
- ③ Larry D. & Zonda S. Williams
- ④ Kelly R. & Peggy S. Phillips

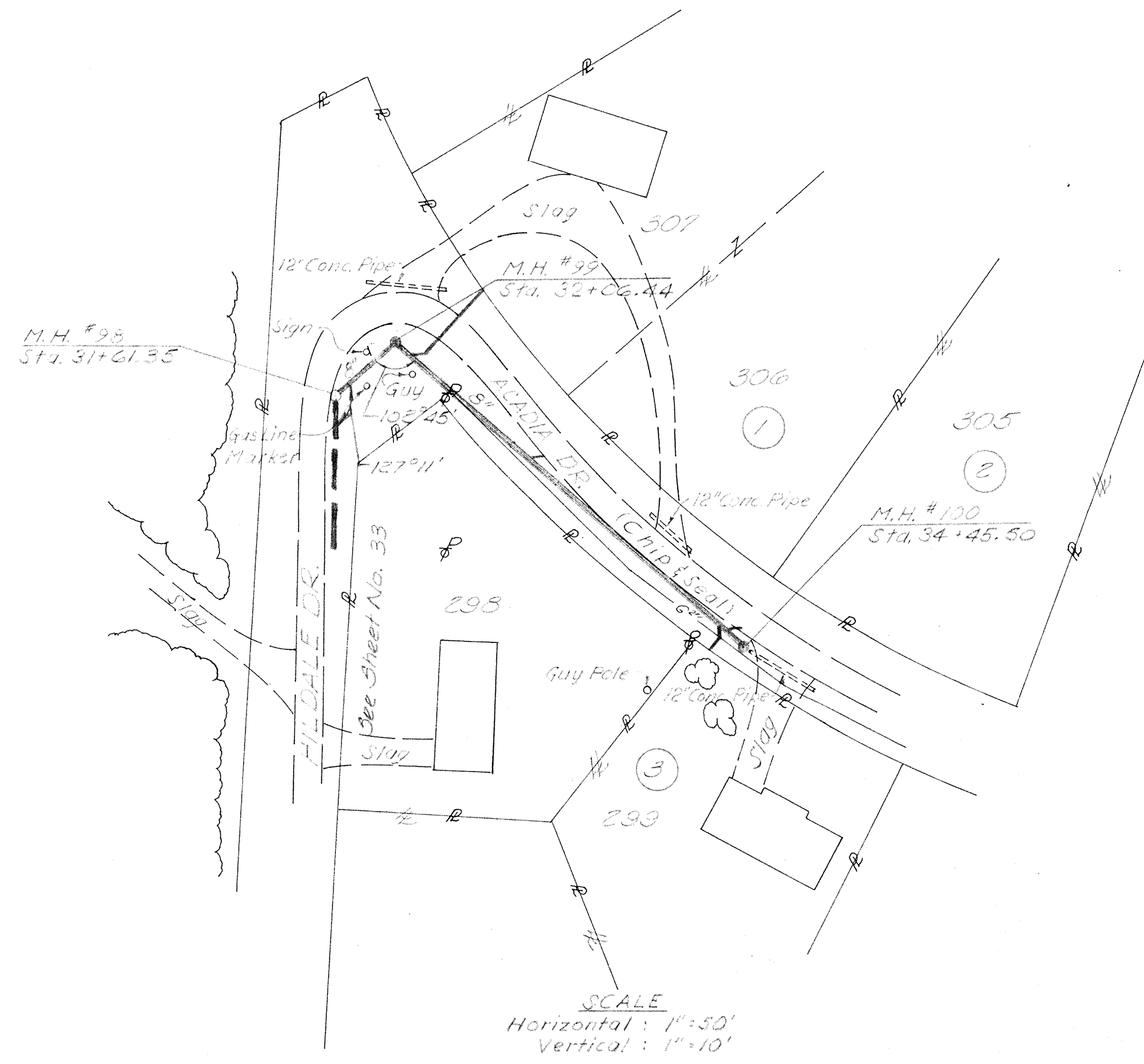
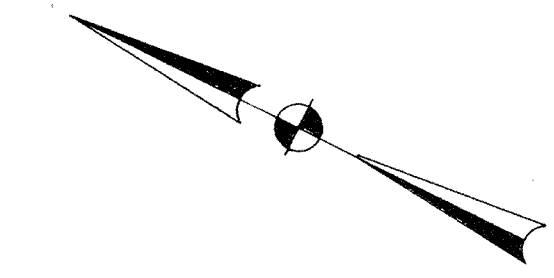
SCALE
Horizontal: 1"=50'
Vertical: 1"=10'

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe 0'-6" Deep	1007	Lin. Ft.
2	8" Sewer Pipe 6'-10" Deep	87	Lin. Ft.
9	Manholes, 0'-6" Deep	4	Each
10	Manholes, 6'-10" Deep	1	Each
15	Wyes, 8"x6"	5	Each
17	6" House Connection	23	Lin. Ft.
18	Granular Backfill	103	Cu. Yd.



DRAWN: [Signature]
CHECKED: [Signature]
BY: [Signature]

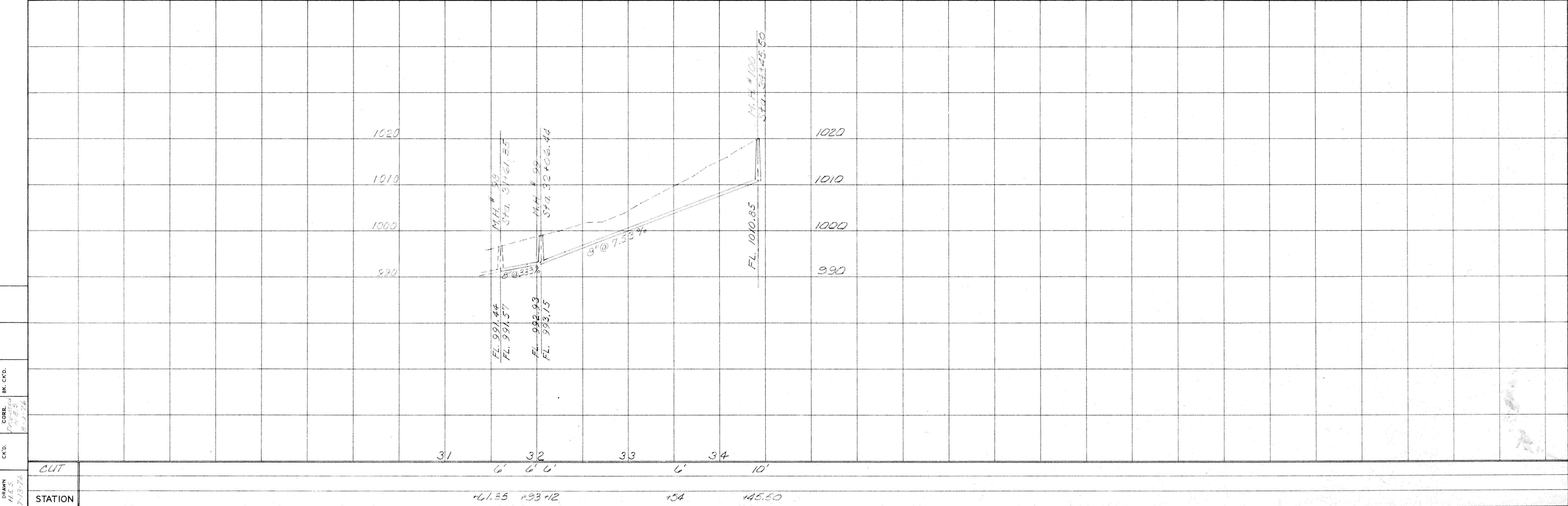
CUT	5'	6'	6'		6'	6'		6'
STATION	20+67.55	21+37	22+04		25+57	26+24		31+61.35



① Donald L. & Sheryl Bortney
 ② Roy W. Brown
 ③ George J. & Sheryl P. Cooney

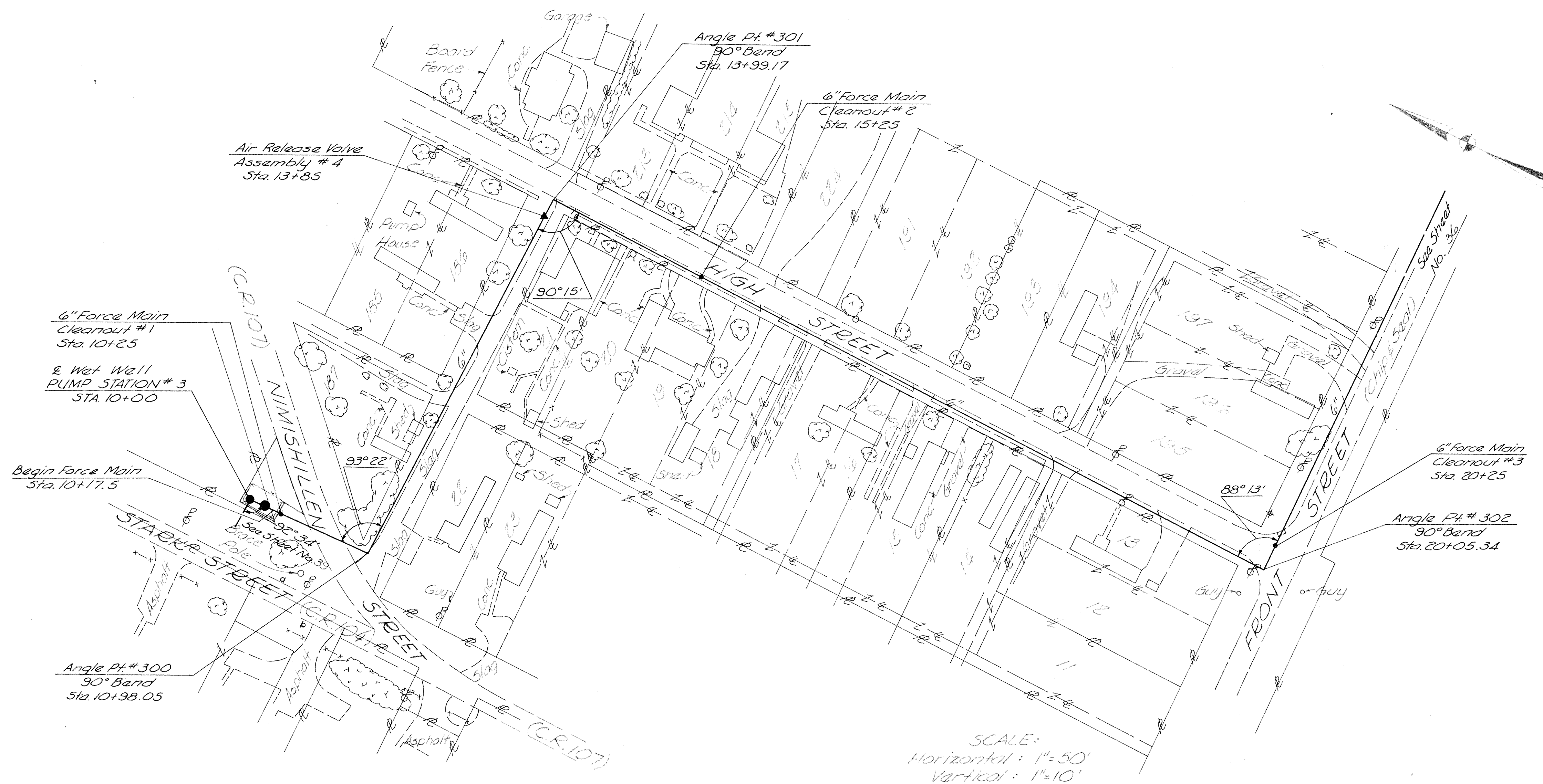
SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'

QUANTITIES		
Item No.	Description	Quantity Unit
1	8" Sewer Pipe, 0'-6" Deep	174 Lin. Ft.
2	8" Sewer Pipe, 6'-10" Deep	111 Lin. Ft.
10	Manholes, 6'-10" Deep	2 Each
15	Wyes, 8"x6"	4 Each
17	6" House Connection	64 Lin. Ft.
18	Granular Backfill	39 Cu. Yd.



DRAWN: H.W.B. 9/13/24
 CK'D: H.W.B. 9/13/24
 ECOR: H.W.B. 9/13/24
 INC. CK'D: H.W.B. 9/13/24

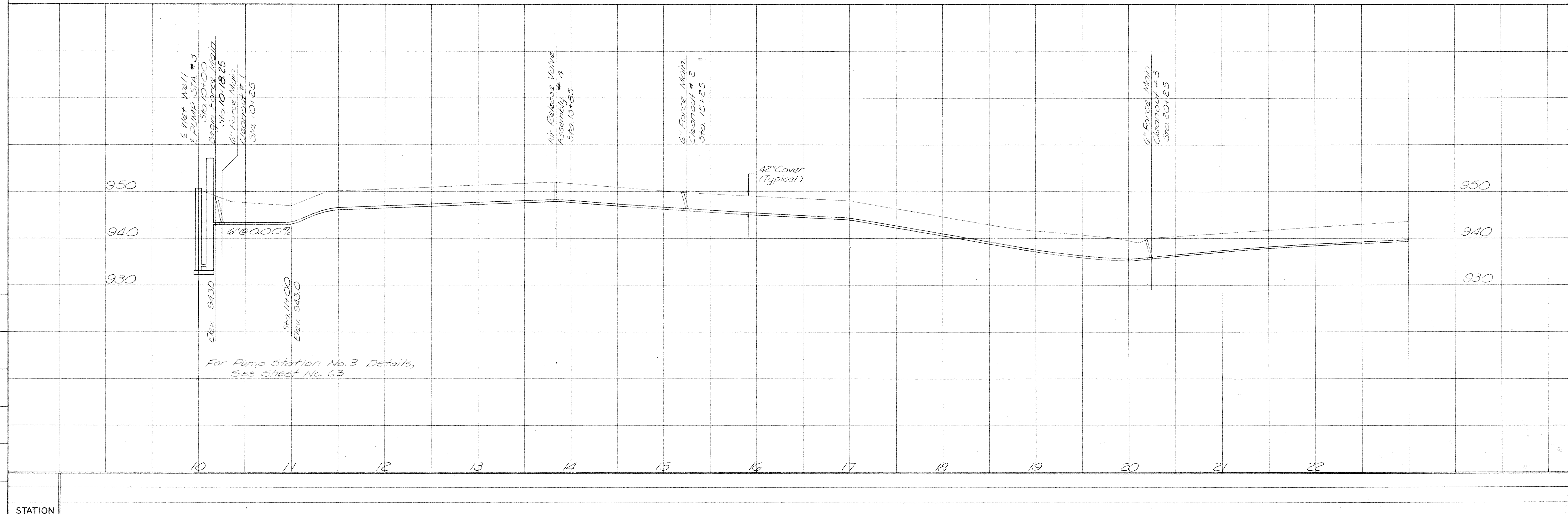
CUT	6'	6'	6'	6'	10'
STATION	31	32	33	34	
	+61.35	+93+12	+54	+45.50	



SCALE:
Horizontal: 1"=50'
Vertical: 1"=10'

QUANTITIES

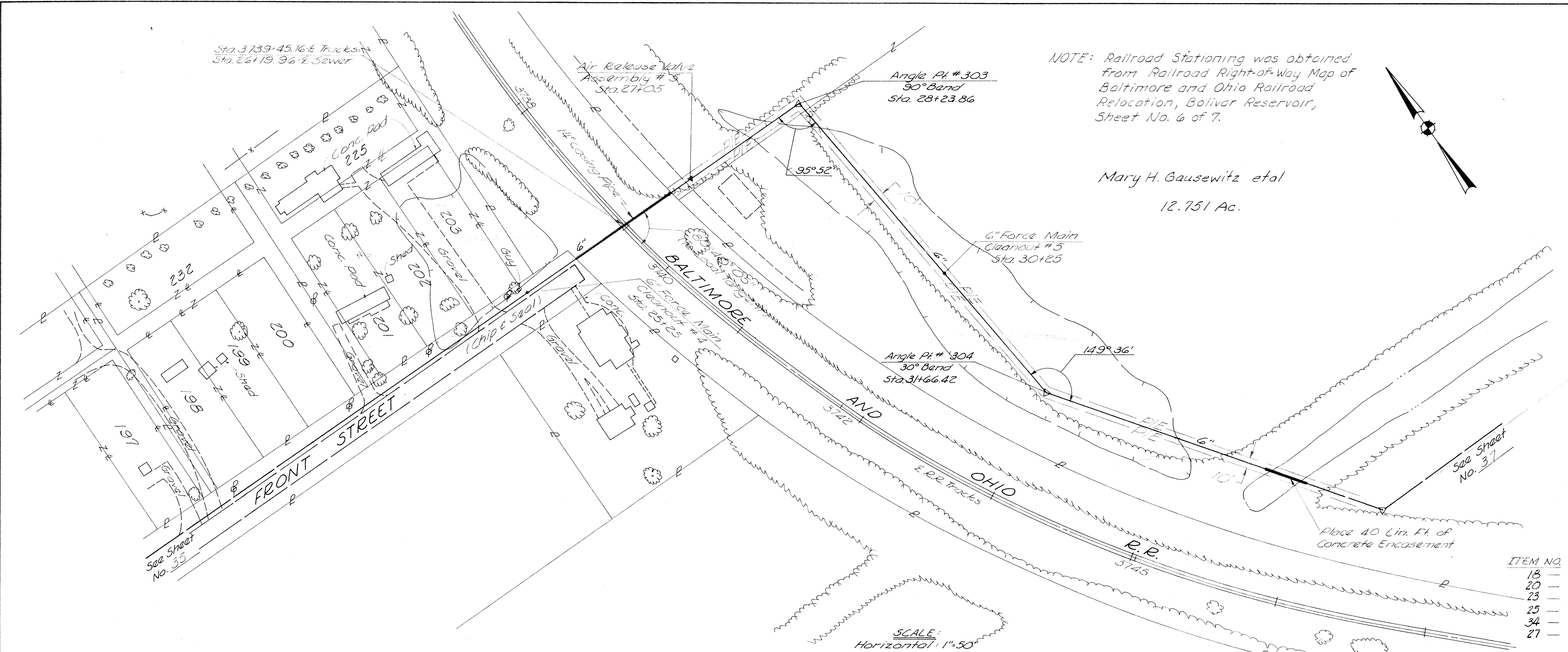
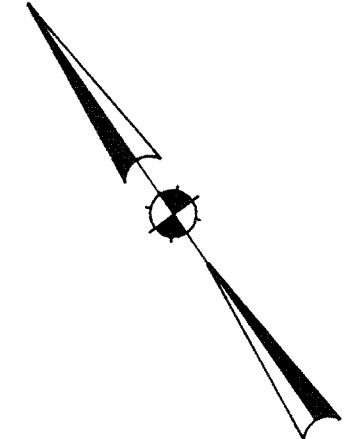
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
18	Granular Backfill	93	Cu. Yds.
20	6" Force Main	1233	Lin. Ft.
23	6" Force Main Cleanout	3	Each
25	Air Release Valve Assembly	1	Each
37	Pump Station No. 3	1	Lump



DRAWN
CKD.
CORR.
BK. CKD.

NOTE: Railroad Stationing was obtained from Railroad Right-of-Way Map of Baltimore and Ohio Railroad Relocation, Bolivar Reservoir, Sheet No. 6 of 7.

Mary H. Gausewitz et al
12.751 Ac.

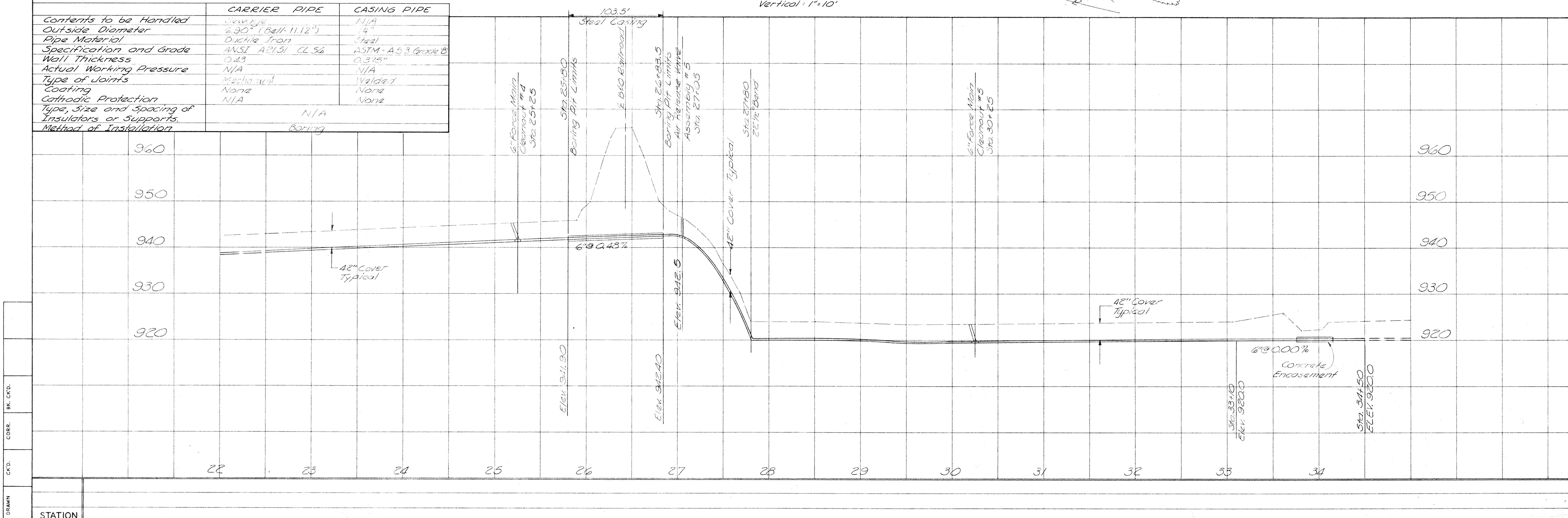


QUANTITIES

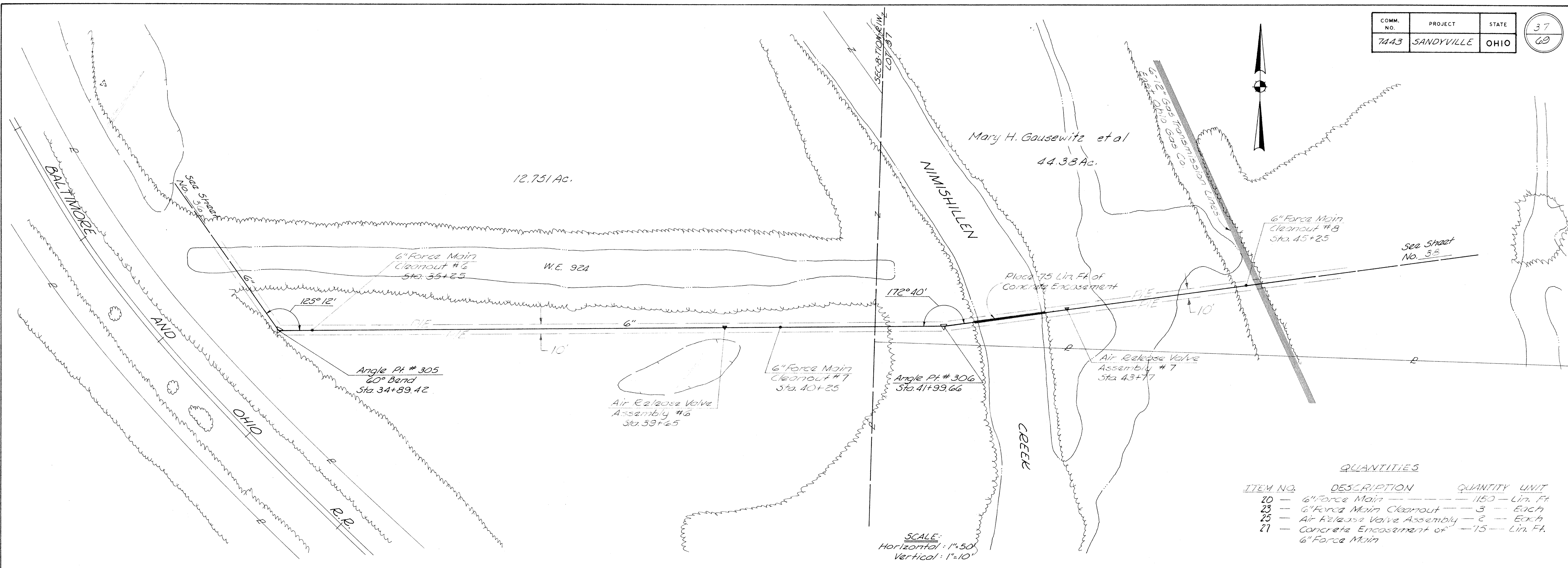
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
18	Granular Backfill	16	Cu. Yds.
20	6" Force Main	1036	Lin. Ft.
23	6" Force Main Cleanout	2	Each
25	Air Release Valve Assembly	1	Each
34	Railroad Crossing		Lump
27	Concrete Encasement of 6" Force Main	40	Lin. Ft.

SCALE:
Horizontal: 1"=50'
Vertical: 1"=10'

	CARRIER PIPE	CASING PIPE
Contents to be Handled	Sewerage	N/A
Outside Diameter	6.90" (Bell-11.12")	14"
Pipe Material	Ductile Iron	Steel
Specification and Grade	ANSI A2151 CL 56	ASTM-A53 Grade B
Wall Thickness	0.43	0.375"
Actual Working Pressure	N/A	N/A
Type of Joints	Mechanical	Welded
Coating	None	None
Cathodic Protection	N/A	None
Type, Size and Spacing of Insulators or Supports	N/A	N/A
Method of Installation	Boring	



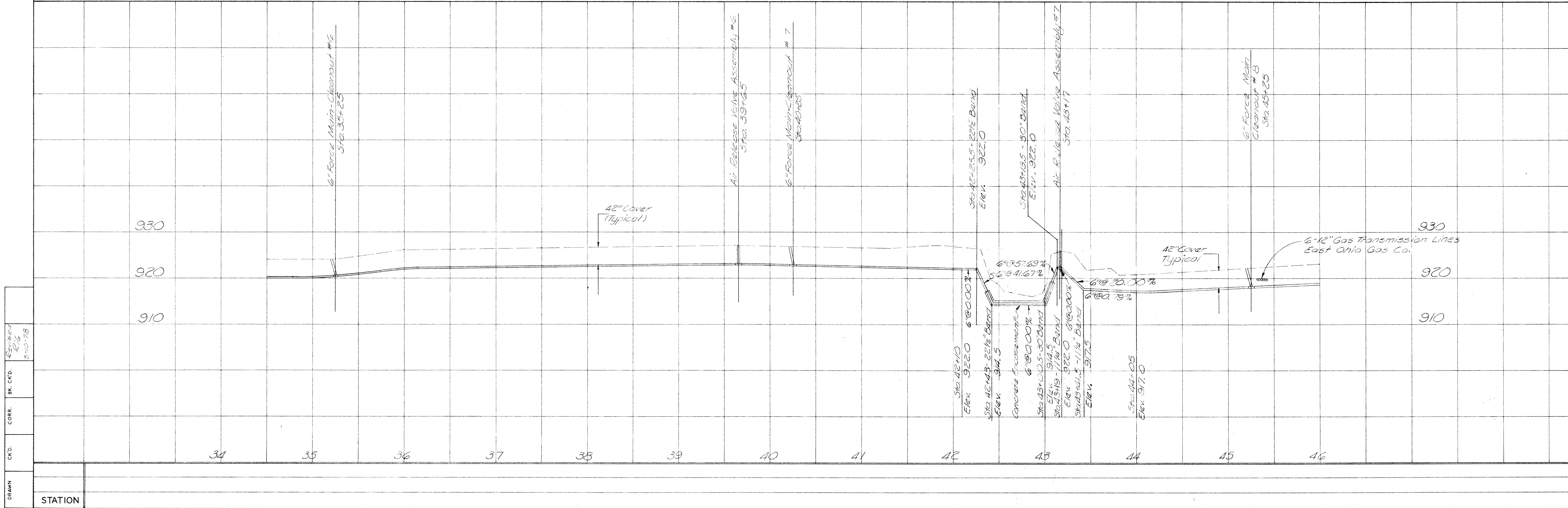
DRAWN
CK'D
CORR.
BR. CK'D.



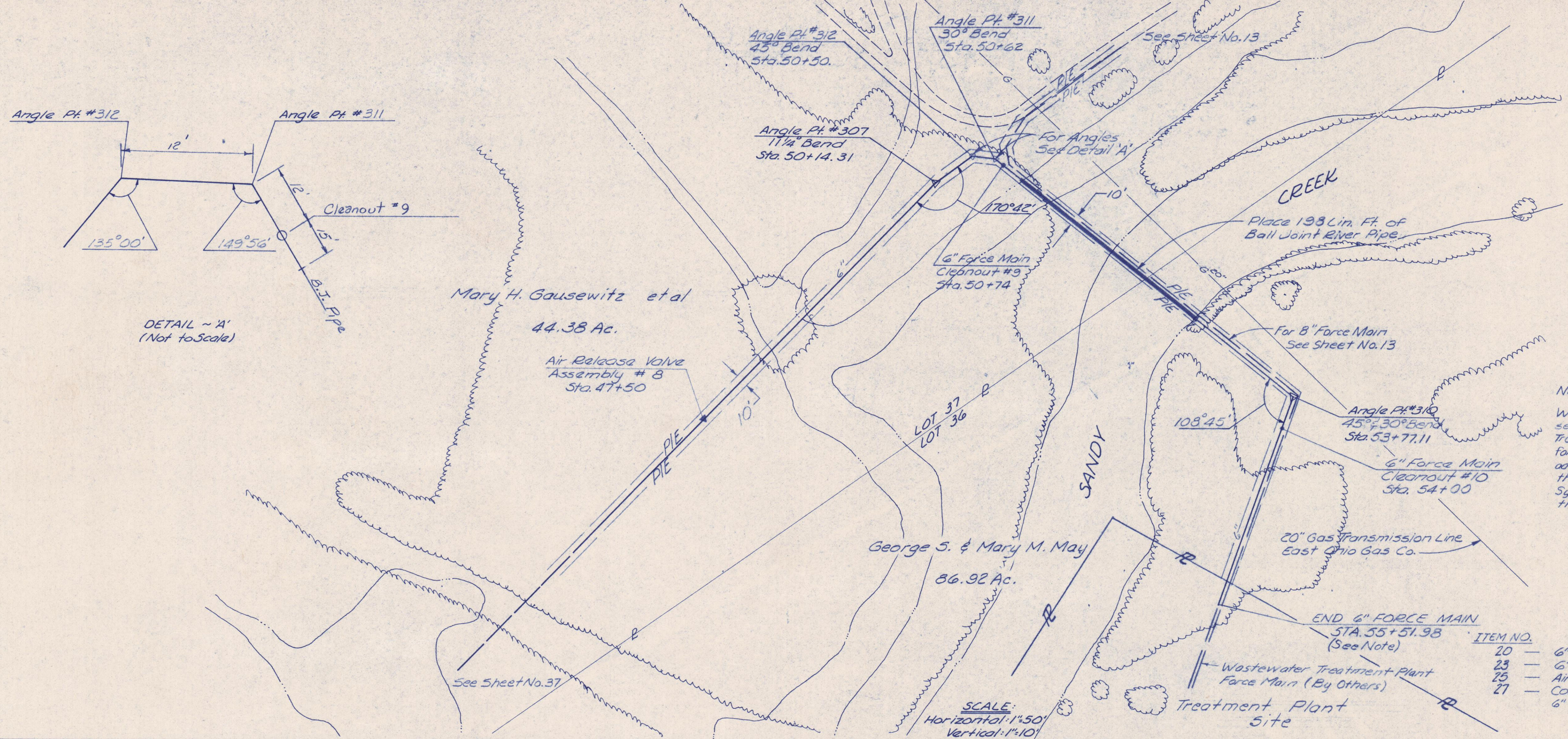
QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
20	6" Force Main	1150	Lin. Ft.
23	6" Force Main Cleanout	3	Each
25	Air Release Valve Assembly	2	Each
27	Concrete Encasement of 6" Force Main	75	Lin. Ft.

SCALE:
Horizontal: 1"=50'
Vertical: 1"=10'



DRAWN: [Blank]
CHKD: [Blank]
CORR: [Blank]
BK. CTD: [Blank]
5-10-78

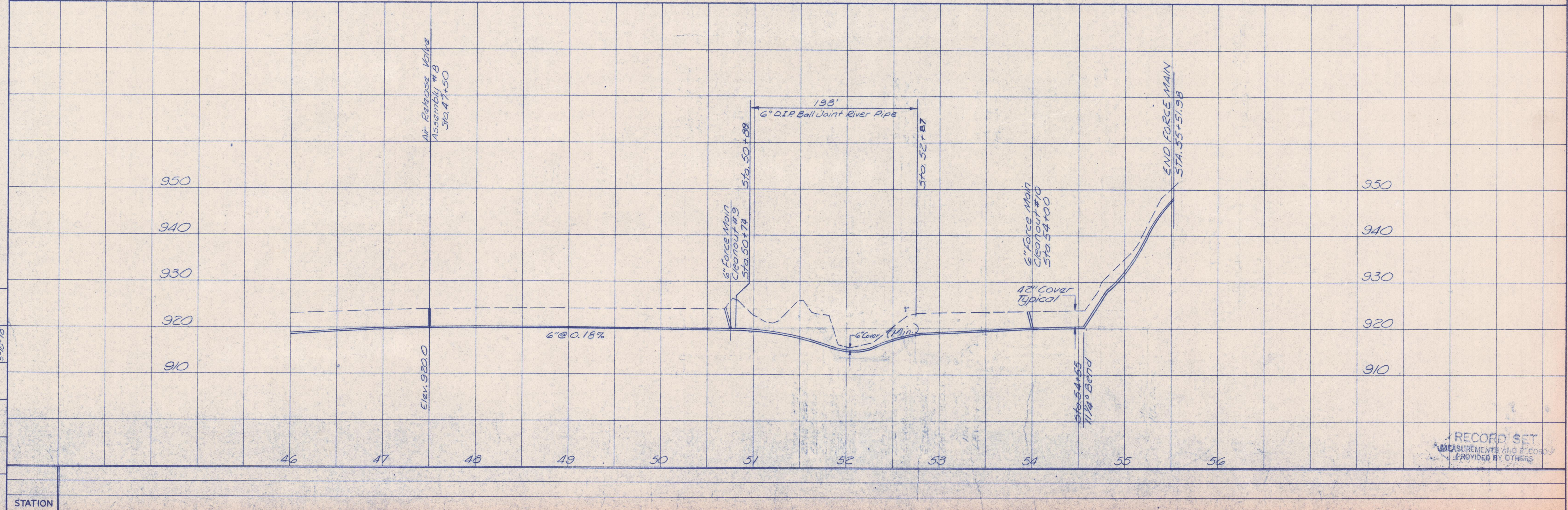


DETAIL ~ 'A'
(Not to Scale)

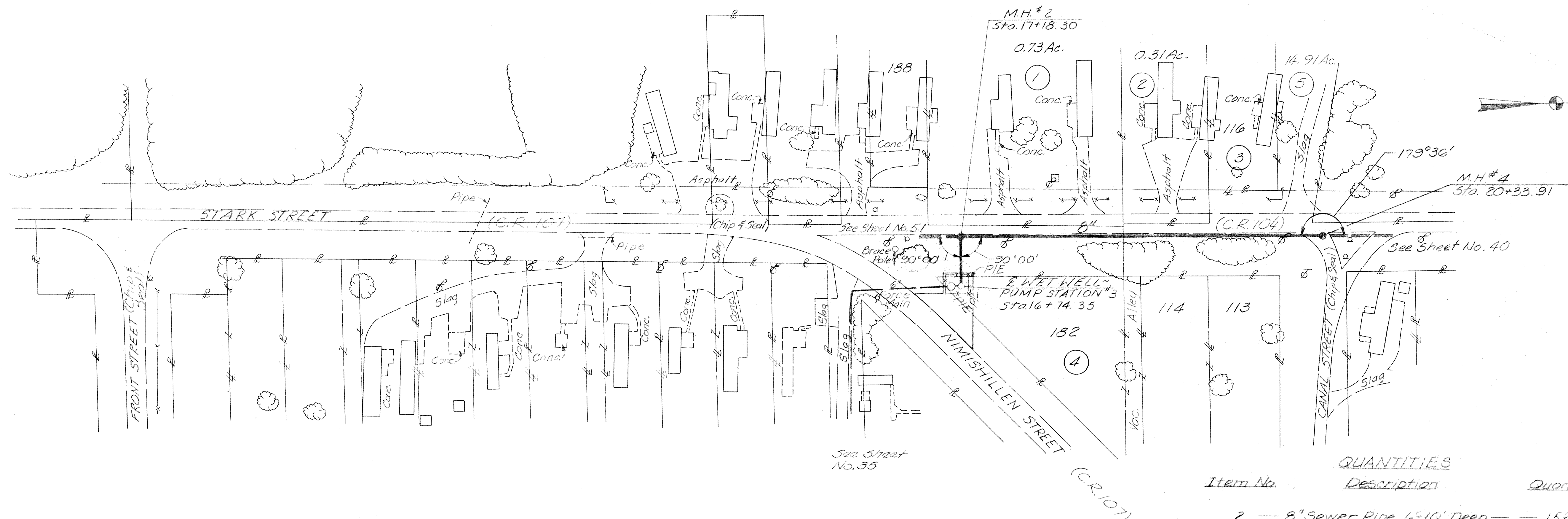
Note:
Wastewater Treatment Plant to be constructed by others as a separate contract. The type of pipe provided at the Wastewater Treatment Plant will be Cast Iron, class 22. The Contractor for the Collection System shall be responsible for supplying an adaptor, if force main material bid is not cast iron, and for making the connection at the Plant. The Contractors for the Collection System and Wastewater Treatment Plant shall coordinate their work with each other.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
20	6" Force Main	352	Lin. Ft.
23	6" Force Main Cleanout	2	Each
25	Air Release Valve Assembly	1	Each
27	Concrete Encasement of 6" Force Main	180	Lin. Ft.

SCALE:
Horizontal: 1"=50'
Vertical: 1"=10'



RECORD SET
MEASUREMENTS AND RECORDS
PROVIDED BY OTHERS

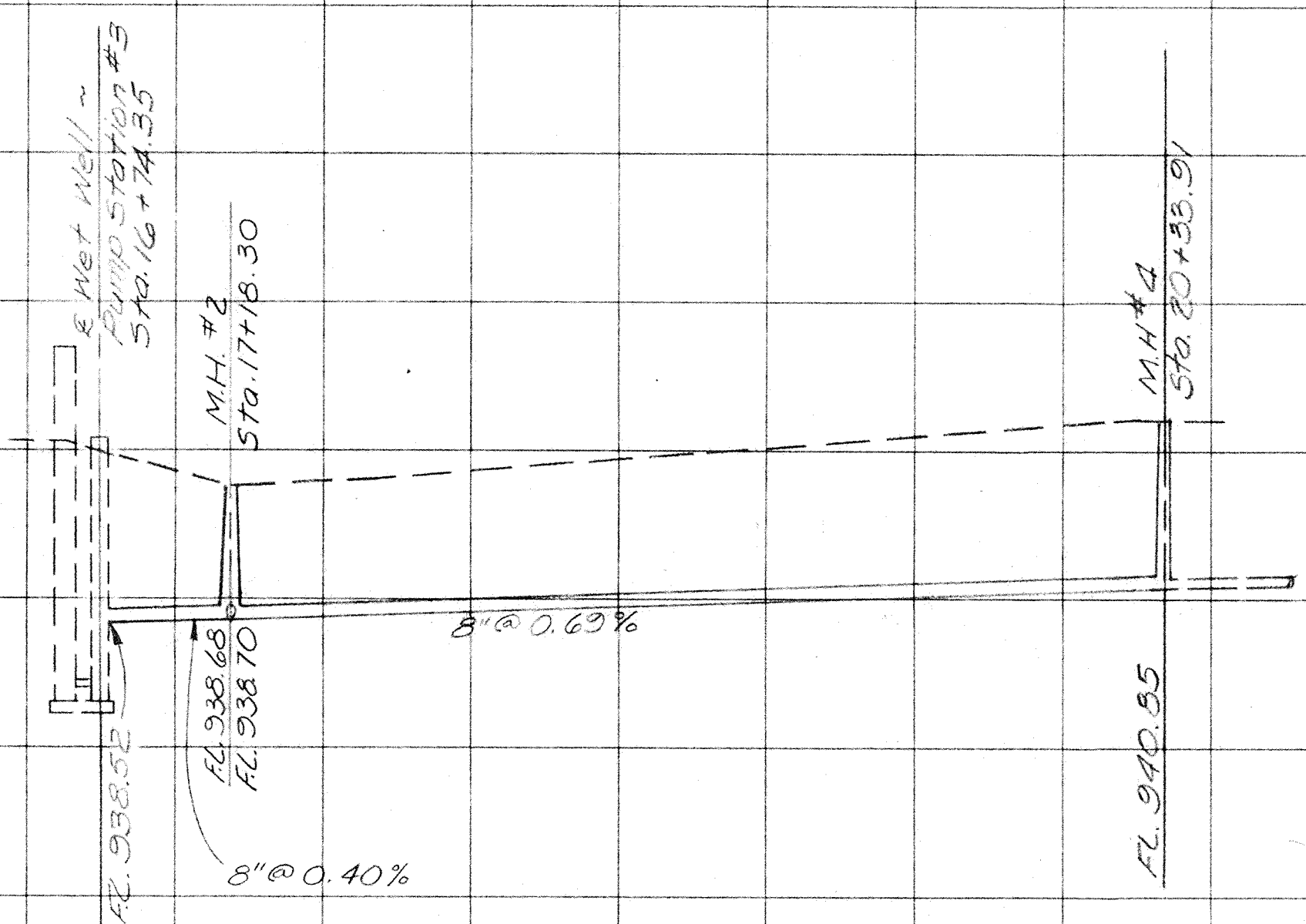


- ① Leonard L. Martin
- ② Sue Martin
- ③ Martin Mobile Homes Sales, Inc.
- ④ Grace Evangelical Lutheran Church
- ⑤ Russell D. & Dorothy M. Cable

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'

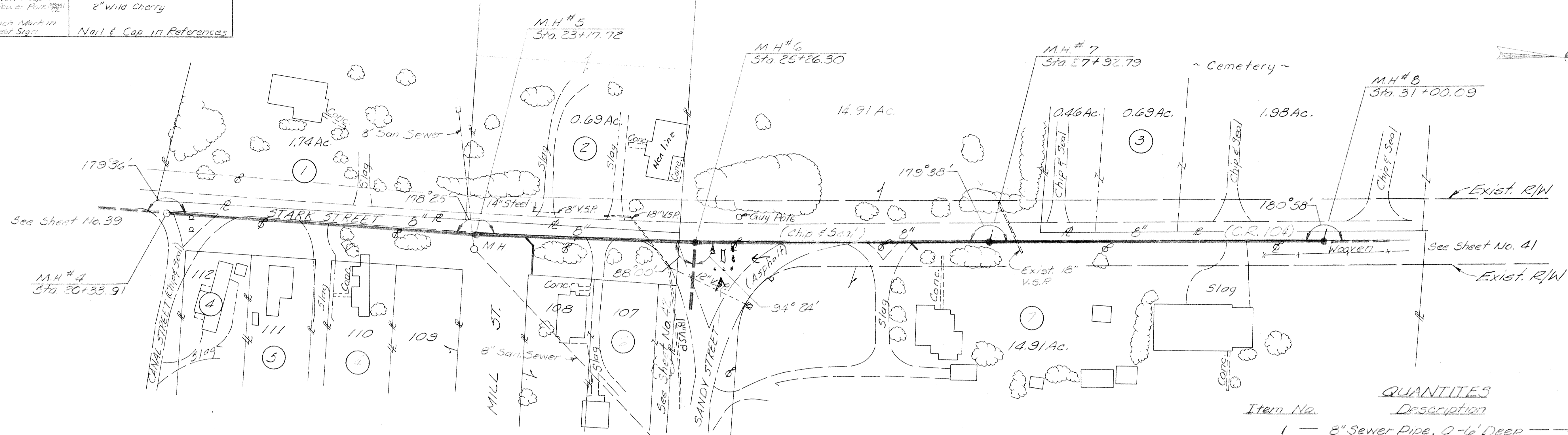
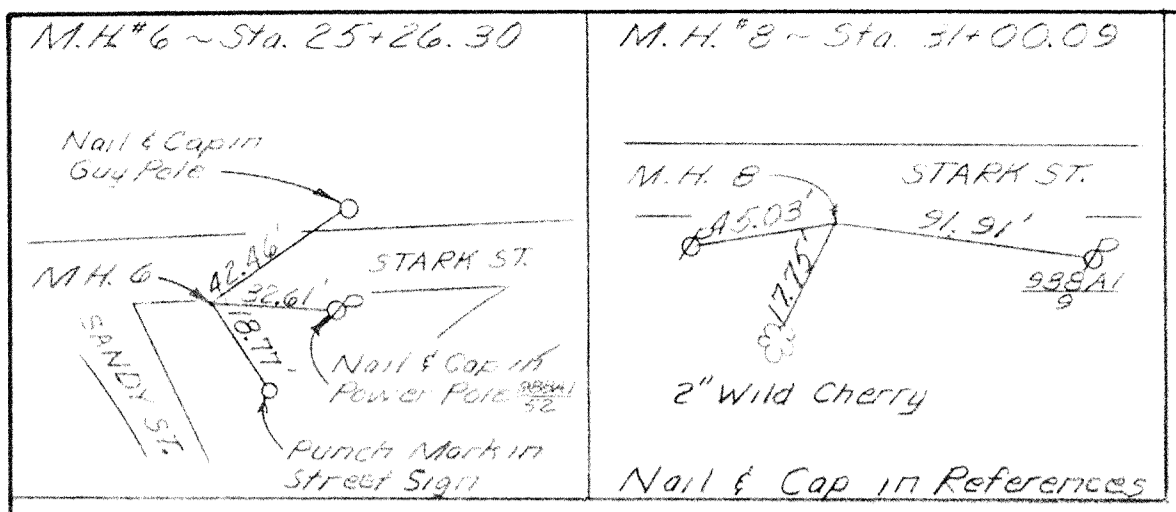
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	152	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	208	Lin. Ft.
10	Manhole, 6'-10' Deep	1	Each
11	Manhole, 10'-15' Deep	1	Each
13	Granular Backfill	30	Cu. Yd.

For Pump Station No. 3 Details, see Sheet No. 63



CKD. [Signature] 3-25-77
 BR. CKD. [Signature] 3-25-77
 DRAWN [Signature] 4-17-76

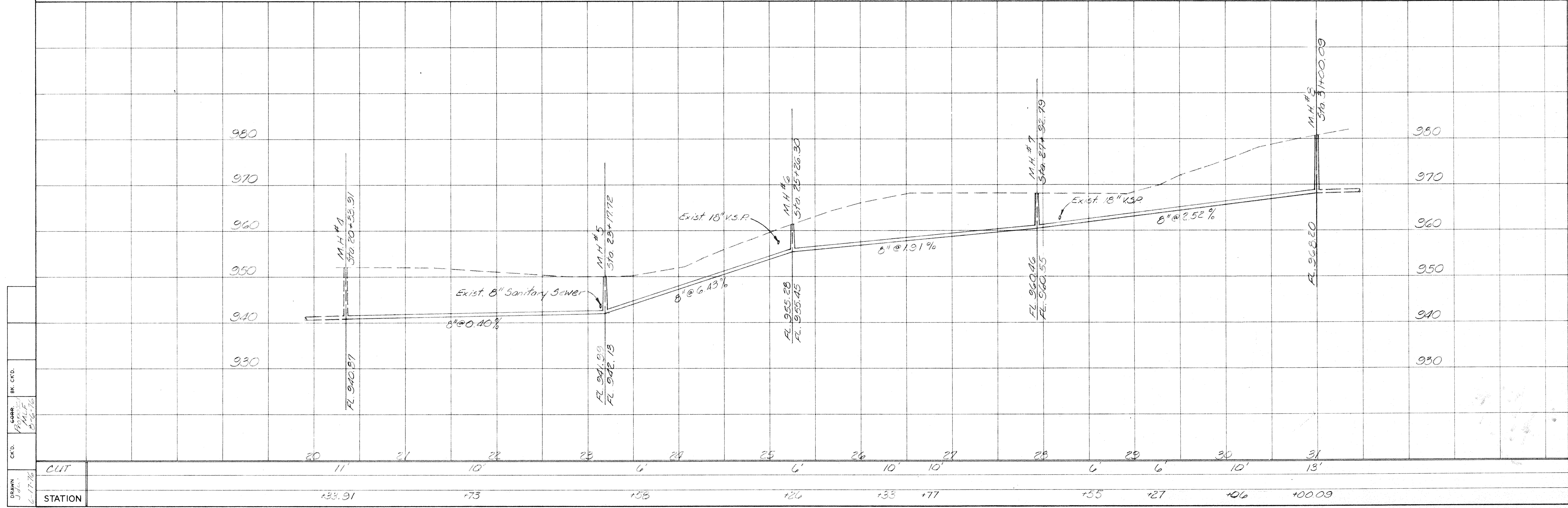
CUT	16	17	18	19	20	21
STATION	+74.35	+03	+55		133.91	

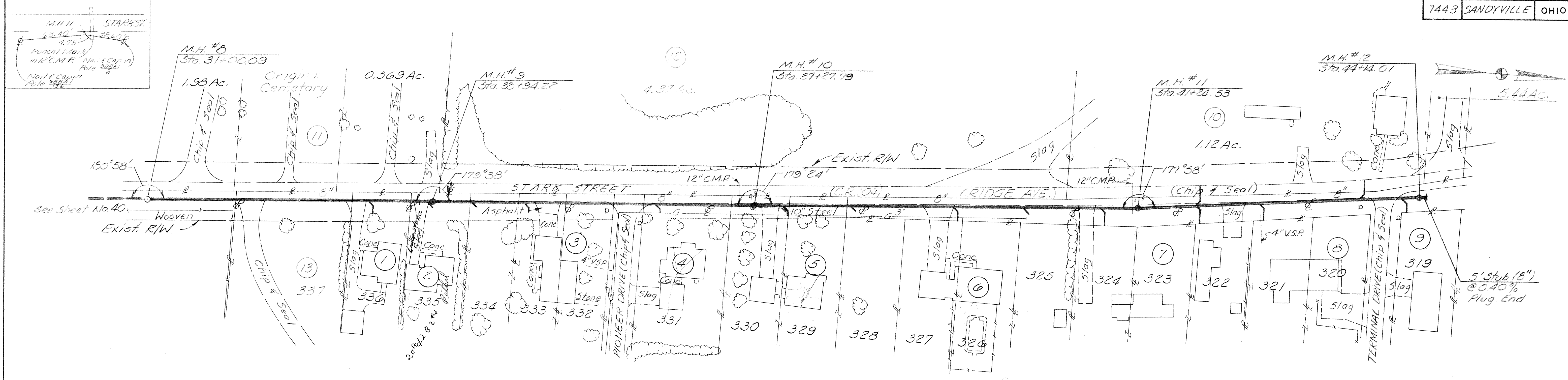


- ① Michael A. & Nancy E. Norcia
- ② Claude Otto & Oma J. Henline
- ③ Trustees Sandy Township
- ④ Robert W. Vielhauer
- ⑤ Pauline W. Vielhauer
- ⑥ Charles & Dorothy J. Scalfidi
- ⑦ Russell D. & Dorothy M. Cable

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	240	Lin. Ft.
2	8" Sewer Pipe, 6'-10' Deep	549	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	278	Lin. Ft.
9	Manholes, 0-6' Deep	1	Each
10	Manholes, 6'-10' Deep	2	Each
11	Manholes, 10'-15' Deep	1	Each
15	Wyes, 8" x 6"	2	Each
17	6" House Connection	35	Lin. Ft.
18	Granular Backfill	683	Cu. Yd.

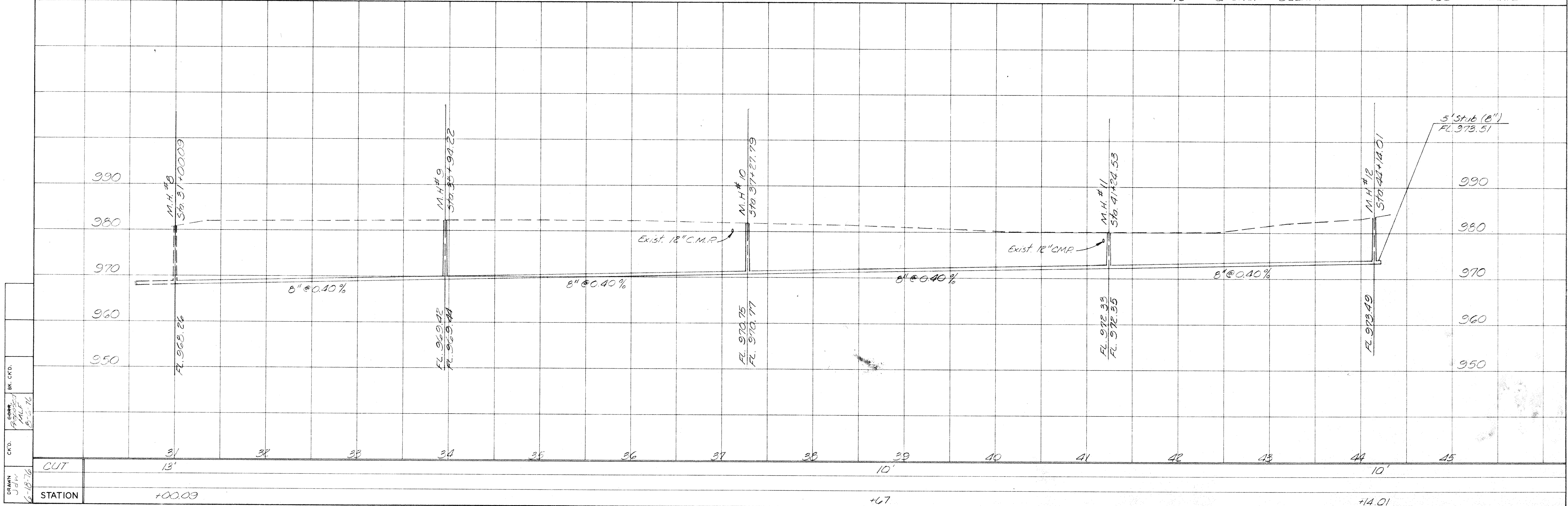




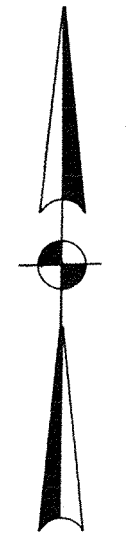
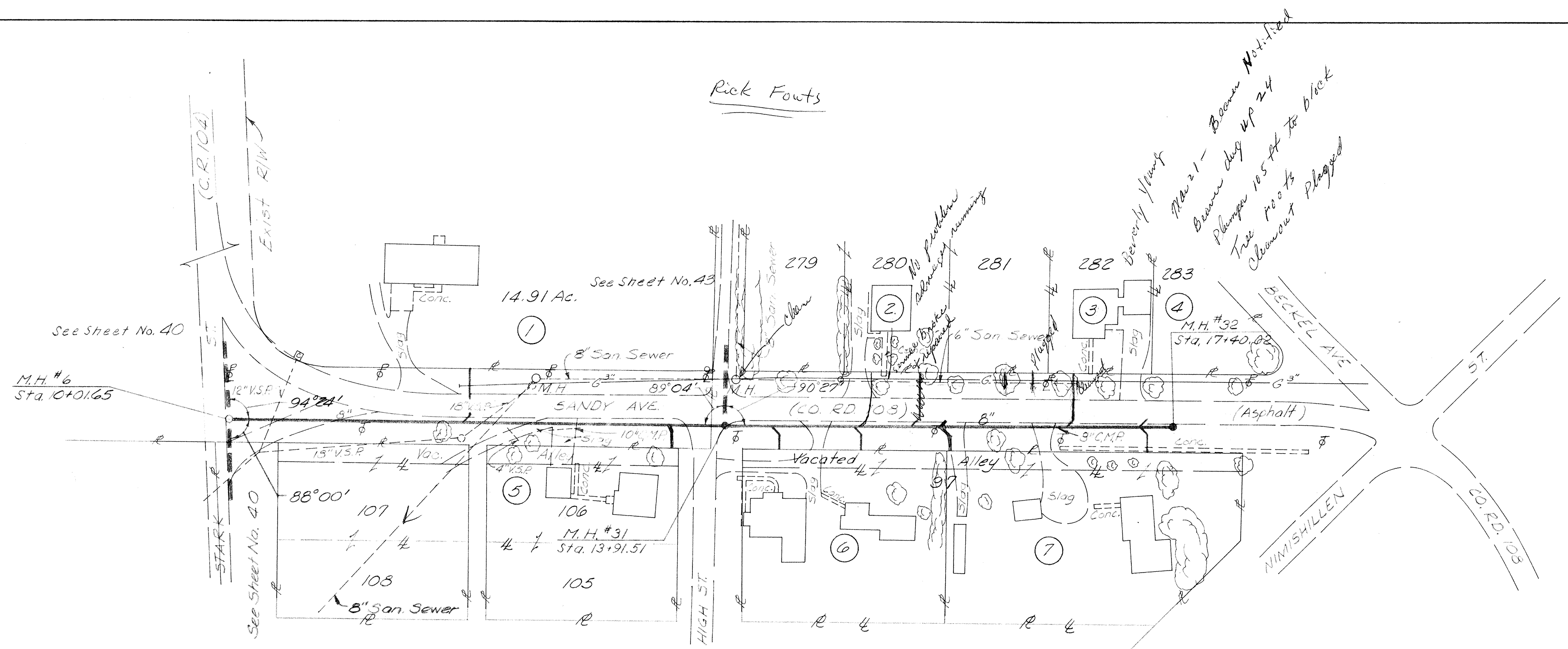
- ① Stanley O. & Barbara A. Wheeler
- ② Robert W. & Hannah B. Bethel
- ③ Louis & Ruth Smitley
- ④ Donald Lee & Lylan Marie Woods
- ⑤ Alfred J. & Katherine Forster
- ⑥ Paul W. & Marie S. Wahl
- ⑦ George T. & Lydia E. Cutter
- ⑧ Jerry L. & Marilyn Dilley
- ⑨ John P. Weaver
- ⑩ Edgar Spring, Inc.
- ⑪ Trustees Sandy Township
- ⑫ The Reeves Banking & Trust Company
- ⑬ Trustees Methodist Church of Sandyville

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	553	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	766	Lin. Ft.
10	Manholes, 6'-10' Deep	2	Each
11	Manholes, 10'-15' Deep	2	Each
15	Wyes, 8" x 6"	15	Each
17	6" House Connection	168	Lin. Ft.
18	Granular Backfill	788	Cu. Yd.



CKD. []
 BR. CKD. []
 DRAWN []
 6-18-76

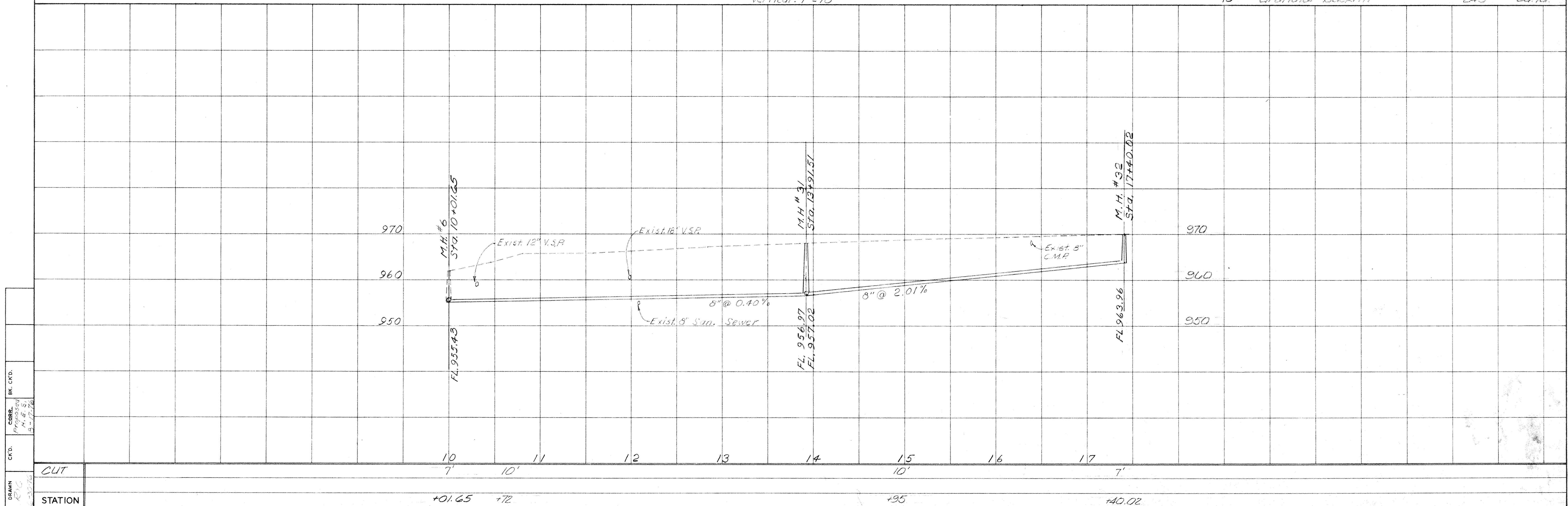


- ① Russell D. & Dorothy M. Cable
- ② Donald G. Fedder
- ③ David Z. Jr. & Mary M. Winn
- ④ Trustees, Sandy Township
- ⑤ Anna E. Rainsburg
- ⑥ Frank A. & Frances M. Prestier
- ⑦ Joseph A. & Louise C. Severs

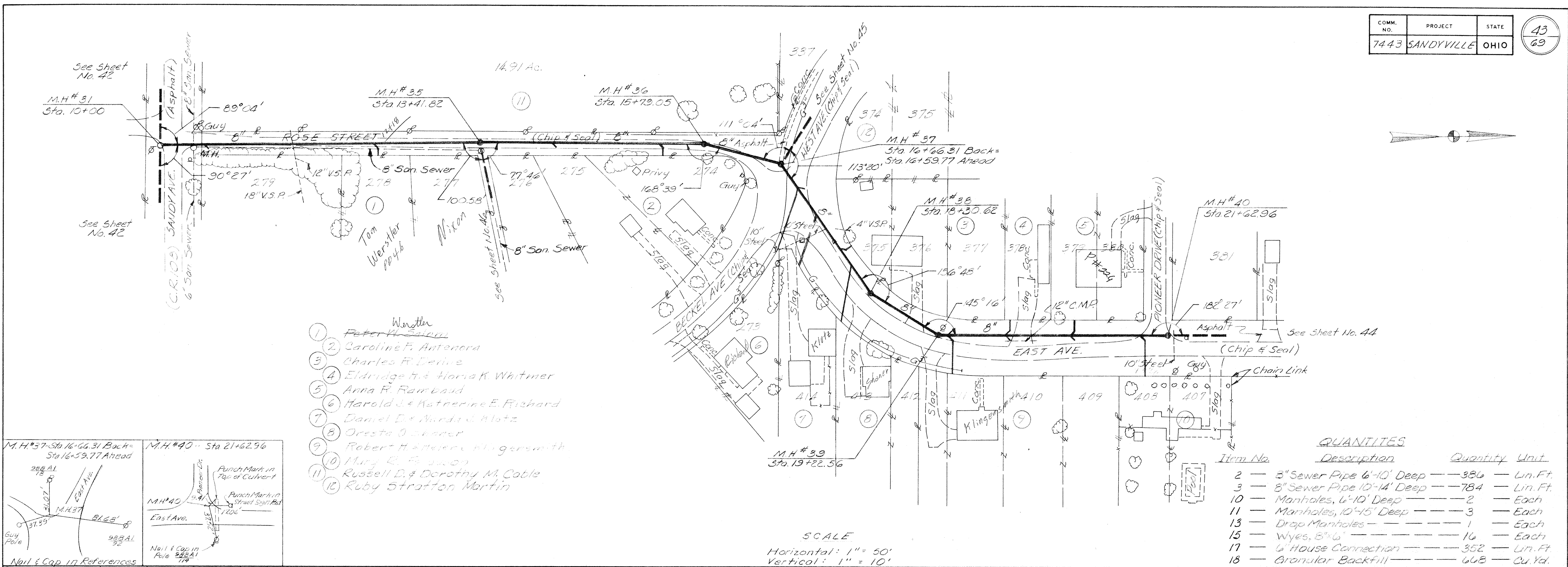
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	316	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	423	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
11	Manholes, 10'-15' Deep	1	Each
15	Wyes, 8"x6"	10	Each
17	6" House Connection	249	Lin. Ft.
18	Granular Backfill	249	Cu. Yd.

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

Lot 50



DRWN: R.P.V.
CHKD: R.P.V.
CORR. PROPOSED: M.B.S. 5-17-18

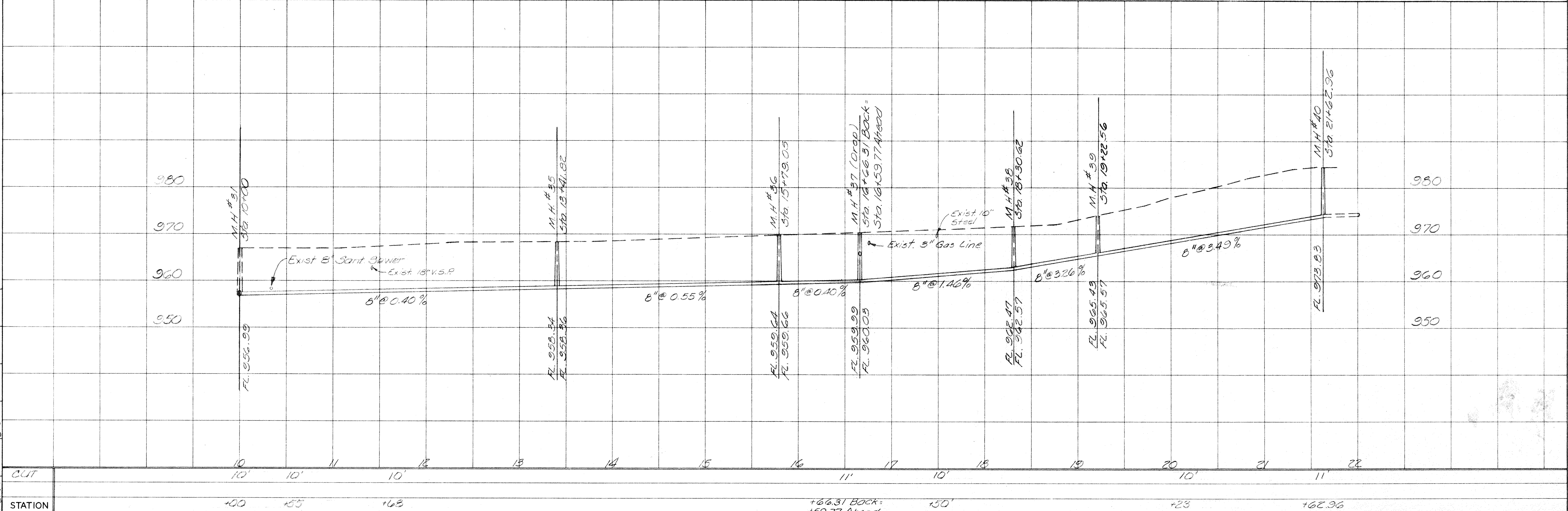
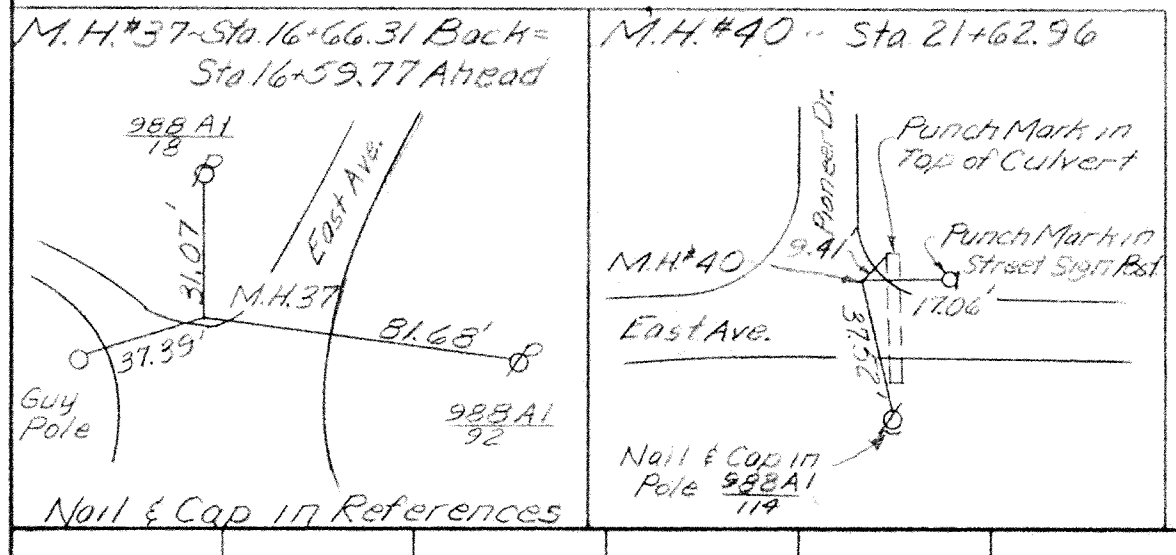


- Wentler
- ① Peter W. Wentler
 - ② Caroline F. Antenora
 - ③ Charles R. Devine
 - ④ Eldridge H. & Gloria K. Whitmer
 - ⑤ Anna R. Rambaud
 - ⑥ Harold J. & Katherine E. Richard
 - ⑦ Daniel D. & Manda S. Klutz
 - ⑧ Oresta O. Schaner
 - ⑨ Robert H. & Helen R. Hingersmith
 - ⑩ Mary R. Ferguson
 - ⑪ Russell D. & Dorothy M. Cable
 - ⑫ Ruby Stratton Martin

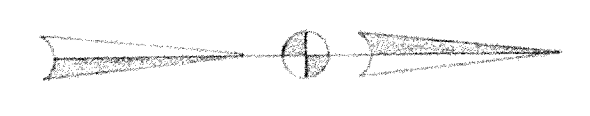
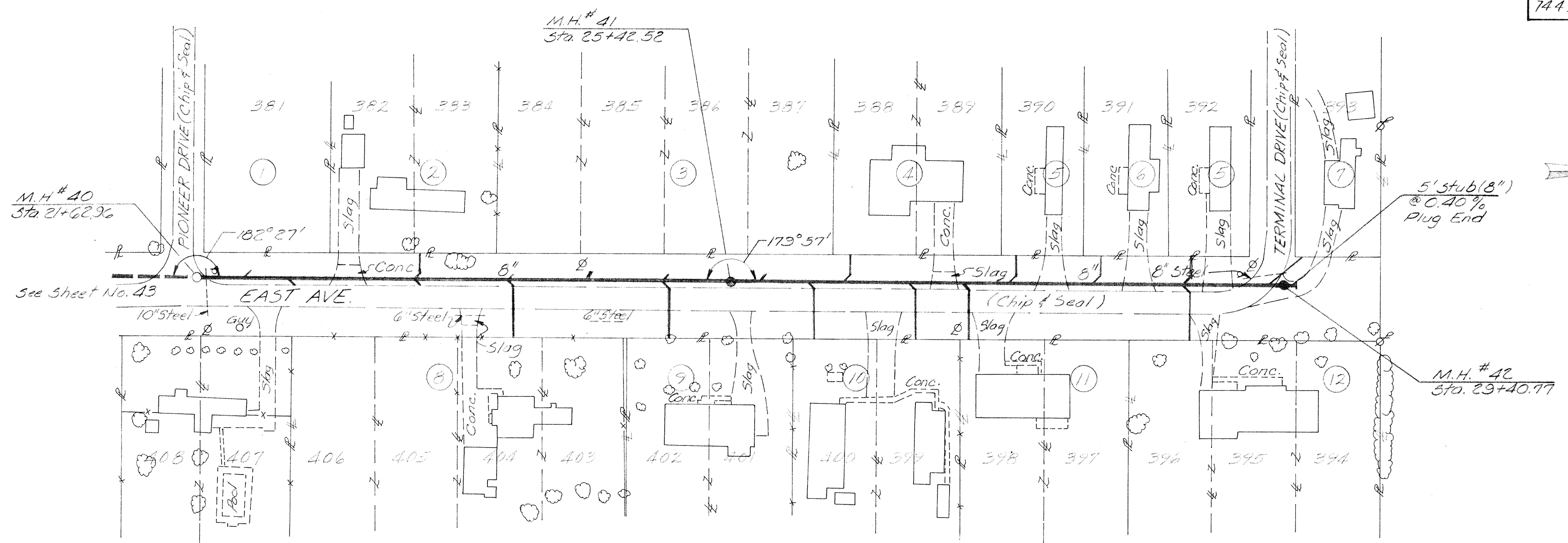
QUANTITIES

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe 6'-10' Deep	386	Lin. Ft.
3	8" Sewer Pipe 10'-14' Deep	784	Lin. Ft.
10	Manholes, 6'-10' Deep	2	Each
11	Manholes, 10'-15' Deep	3	Each
13	Drop Manholes	1	Each
15	Wyes, 8" x 6"	16	Each
17	6" House Connection	352	Lin. Ft.
18	Granular Backfill	668	Cu. Yd.

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



DATE: 8-27-76
DRAWN: J.W.
CHKD: B.K.
PROJECT: SANDYVILLE
SHEET: 43/69



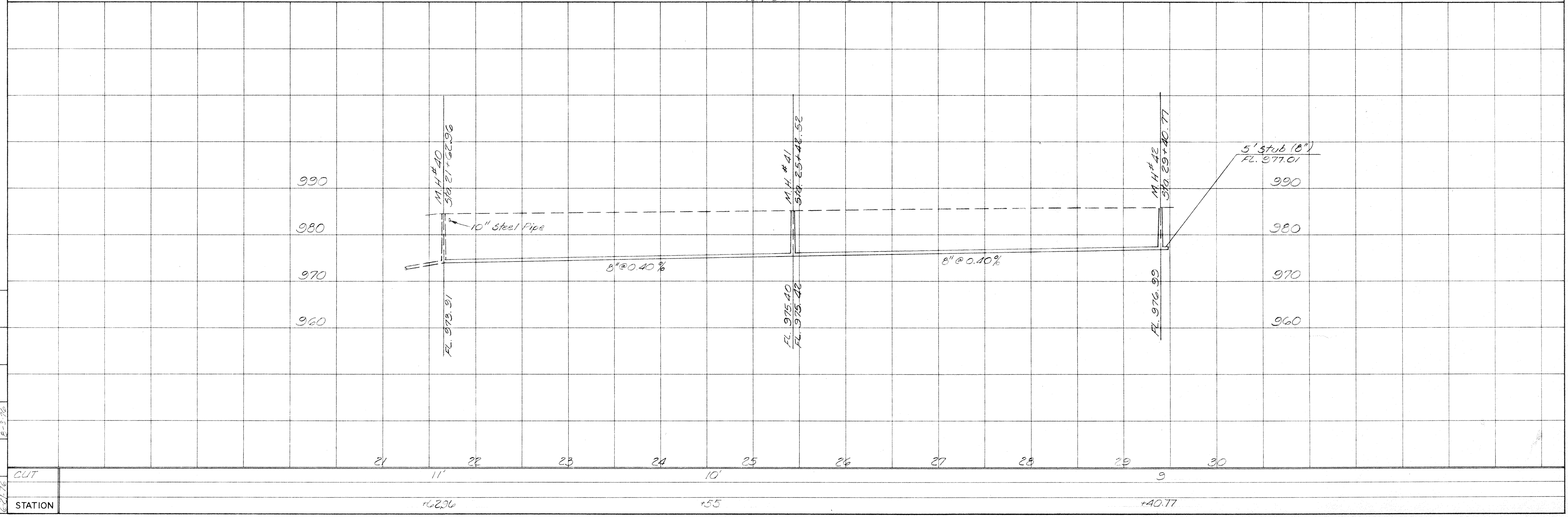
- ① Anna R. Rambaud
- ② Albert E. & Norma G. Stair
- ③ Max M. Weaver
- ④ Carl & Ruby Reid
- ⑤ Ruby Stratton Martin
- ⑥ Mary & Lee Martin
- ⑦ Pat & Dorothy Bennett
- ⑧ v. Harold & Blomavane Anderson

- ⑨ Gary L. & Deborah D. Williams
- ⑩ Kate A. Golley
- ⑪ Richard L. & Frisilla S. Huston
- ⑫ Garnett C. Henline

QUANTITIES

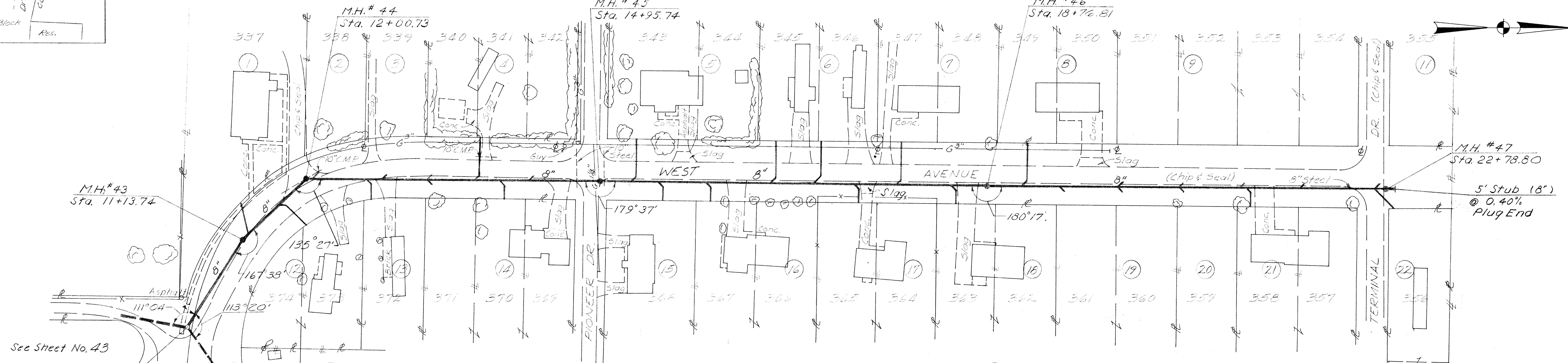
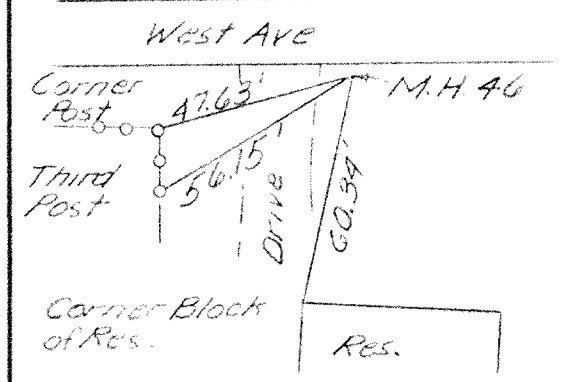
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	491	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	293	Lin. Ft.
10	Manholes, 6'-10' Deep	2	Each
15	Wyes, 8"x6"	19	Each
17	6" House Connection	371	Lin. Ft.
18	Granular Backfill	185	Cu. Yd.

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'



CK'D. *[Signature]*
 CORR. Proposed
 8-25-76
 BK. CK'D.
 DRAWN
 J.W.
 6-24-76

CUT	11'	10'	9'
STATION	+22.96	+55	+40.77

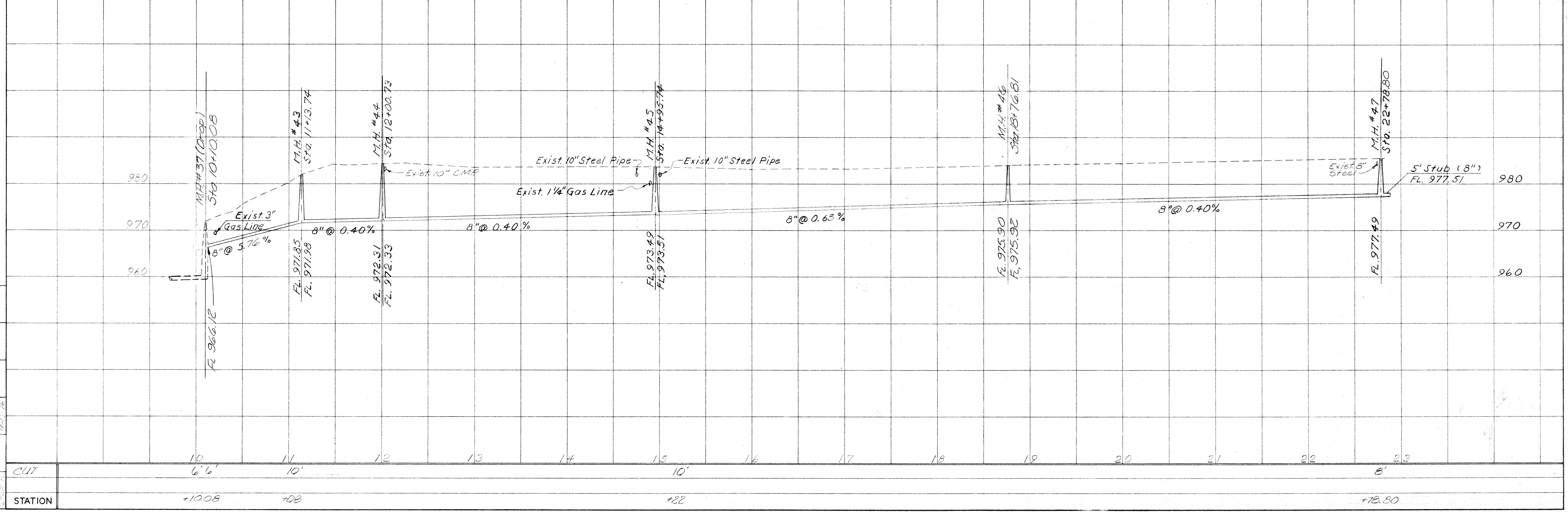


- 1 Trustees Methodist Church of Sandyville
- 2 Stanley C. & Barbara A. Wheeler
- 3 Robert W. & Hannah B. Bethel
- 4 Randall W. & Rhoda Schmuck
- 5 Robert & Joyce Welker
- 6 Donald Siekafosse
- 7 John O. & Vivian A. Slach
- 8 George R. & Betty J. Broad
- 9 George Jr. & Norma Jean Broad
- 11 John R. Weaver
- 12 Ruby Stratton Martin
- 13 Irven R. & Carrie S. Boyd
- 14 Leland C. & Lois E. Swinford
- 15 Robert E. & Shirley M. Mears
- 16 Jennings Creed & Doris Lee Lake
- 17 Candy & Ruth D. Collingsworth
- 18 Edna L. & Elizabeth M. Burchell
- 19 Carl & Ruby Reidl
- 20 Orion Aubuhl
- 21 Sandyville Methodist Church, Inc.
- 22 Fat & Dorothy Bennett

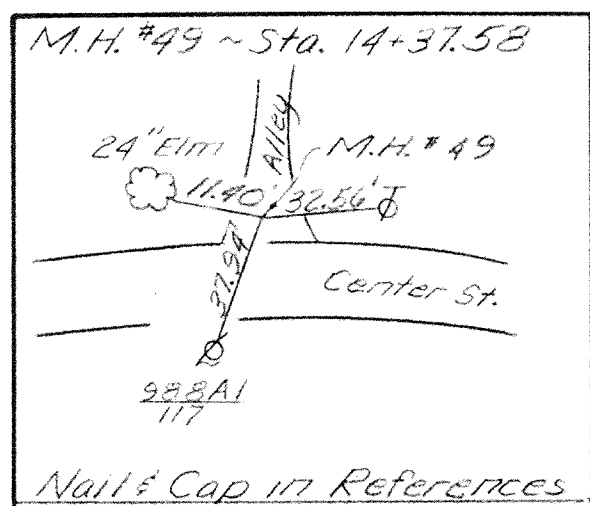
QUANTITIES

Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0'-6" Deep	2	Lin. Ft.
2	8" Sewer Pipe, 6'-10" Deep	858	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	414	Lin. Ft.
10	Manholes, 6'-10" Deep	2	Each
11	Manholes, 10'-15" Deep	3	Each
15	Wyes, 8" x 6"	29	Each
17	6" House Connection	472	Lin. Ft.
18	Granular Backfill	349	Cu. Yd.

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

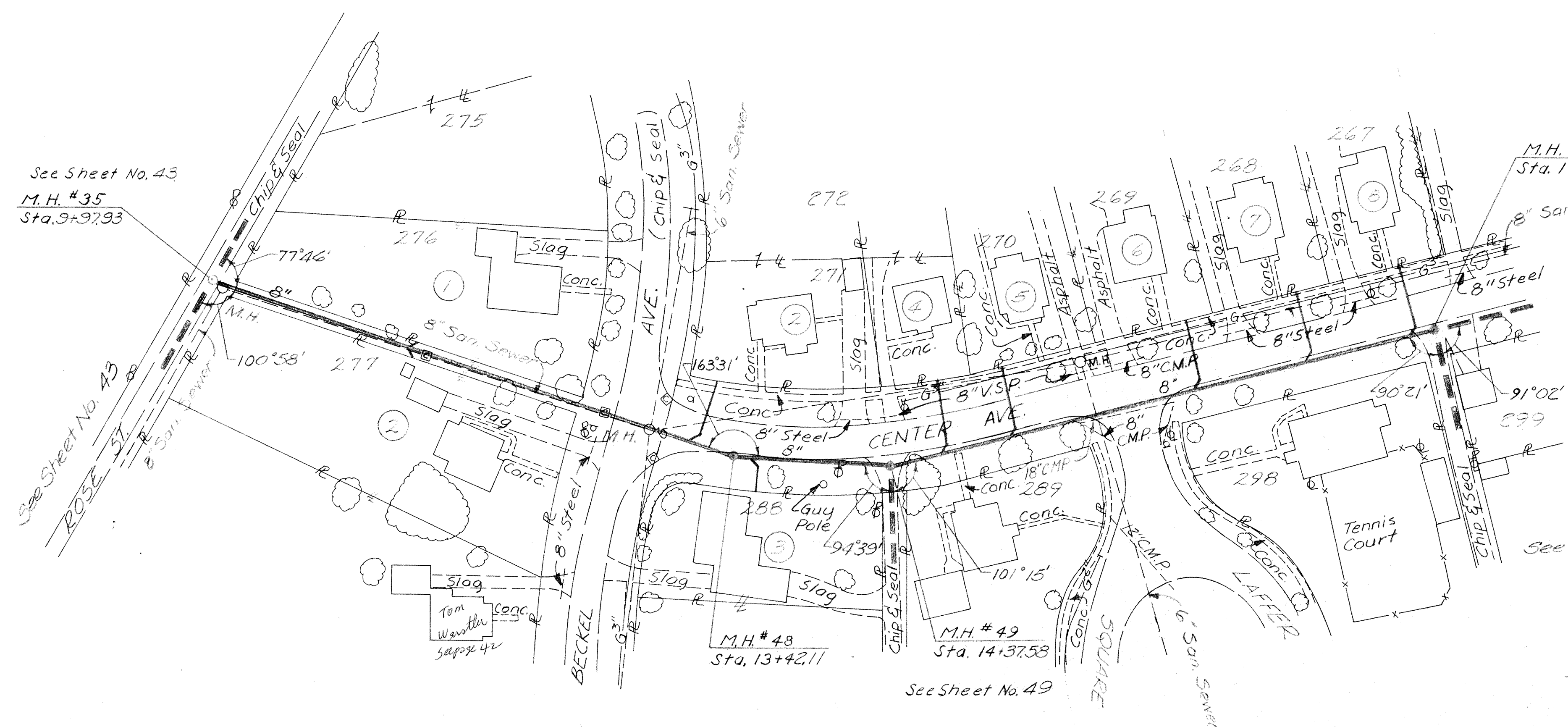


CK'D. BK. CK'D.
CORR. PROPOSED
DATE: 1/14/74
DRAWN: R.P.C.



COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

46
69

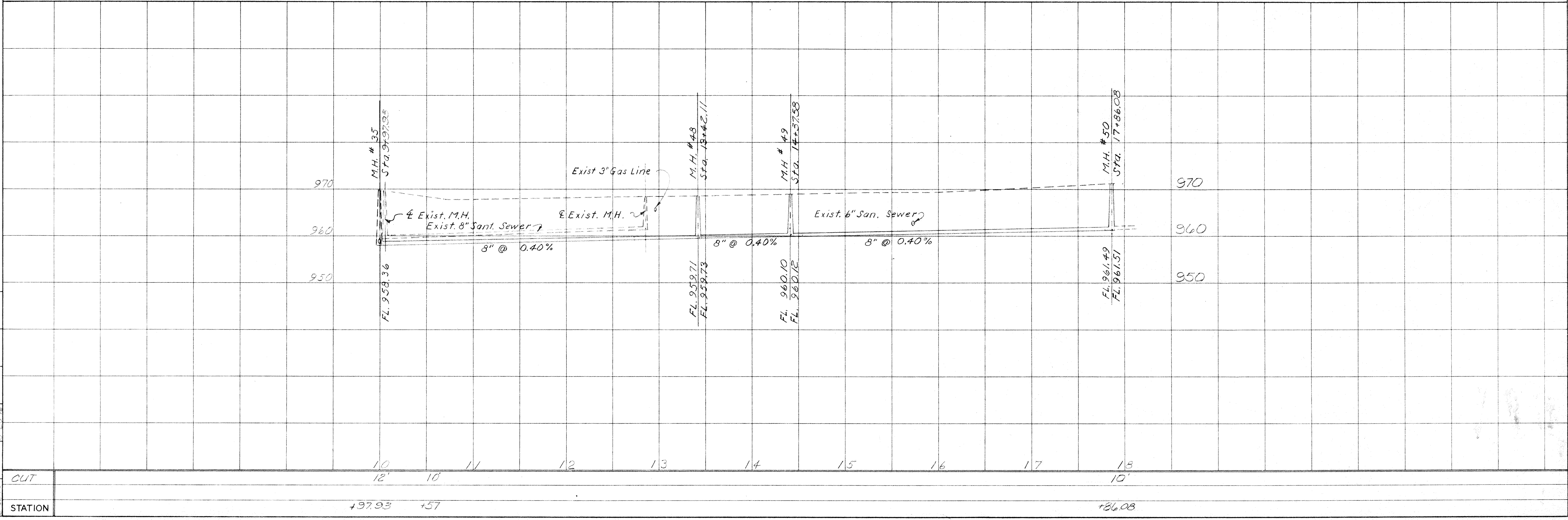


- See Sheet No. 47
- ① G. W. & Guy V. Butts
 - ② Gregg W. & Janice C. Nixon
 - ③ Donald R. & Lillie May Williams
 - ④ James L. & Hazel M. Moffett
 - ⑤ Catherine Weaver et al
 - ⑥ Harry Welker
 - ⑦ Henry & Ruby Collingsworth
 - ⑧ Nicholas M. & Carol M. Vecchio

See Sheet No. 50

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

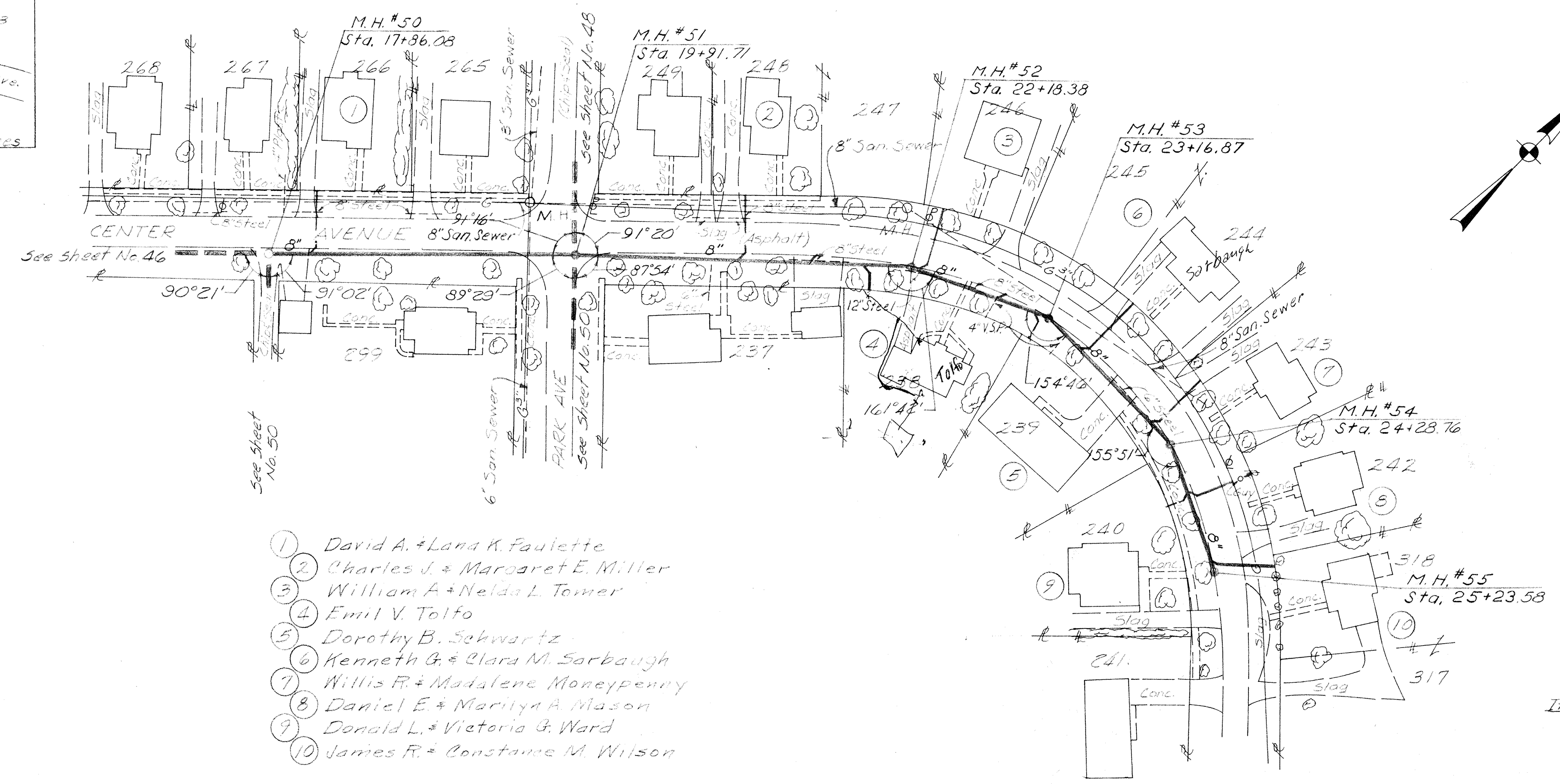
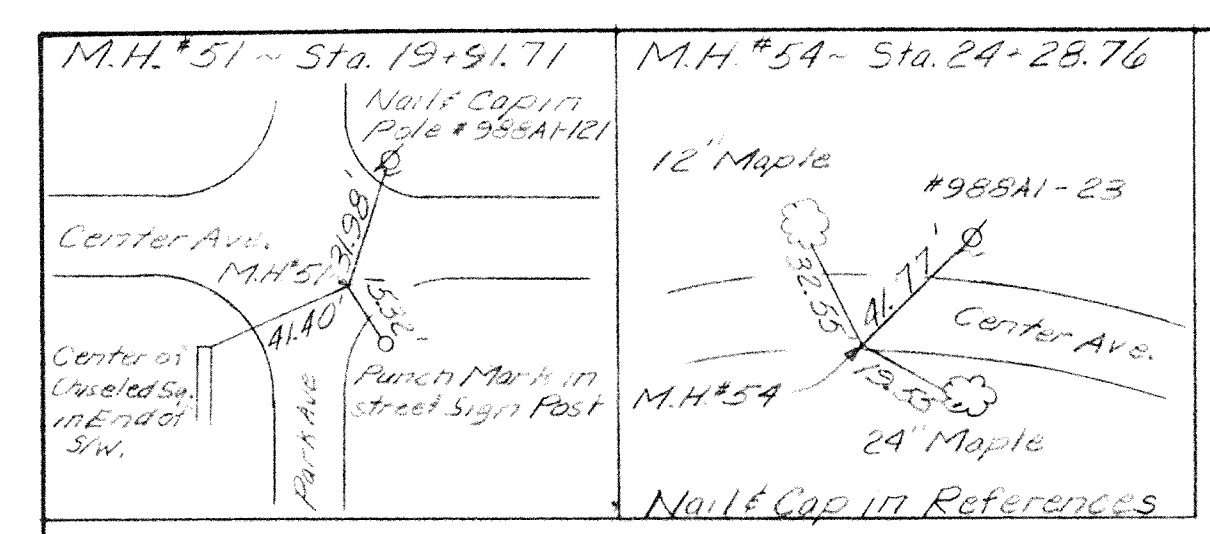
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10" Deep	730	Ln. Ft.
3	8" Sewer Pipe, 10'-14" Deep	60	Ln. Ft.
10	Manholes, 6'-10" Deep	3	Each
15	Wyes, 8" x 6"	9	Each
17	6" House Connection	292	Ln. Ft.
18	Granular Backfill	170	Cu. Yd.



BR. CVD.
CHK'D.
DRAWN

CUT
STATION

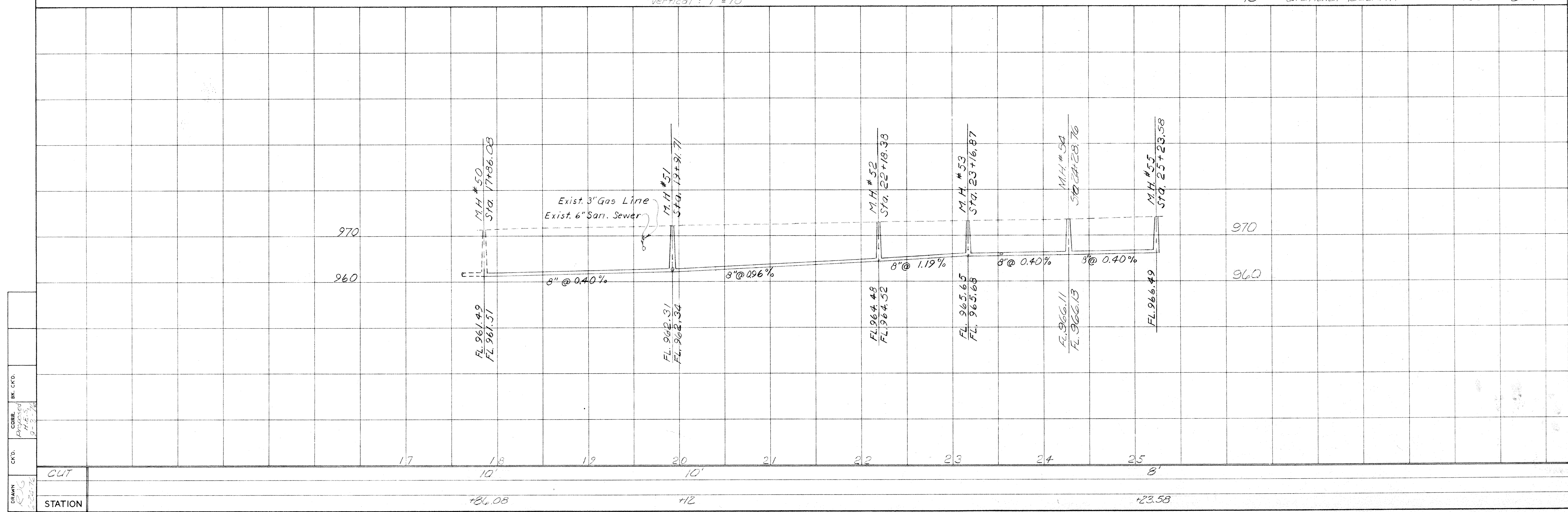
10 11 12 13 14 15 16 17 18
12' 10' 10'
+97.93 +57 +86.08



- 1 David A. + Lana K. Faulette
- 2 Charles J. + Margaret E. Miller
- 3 William A. + Nelda L. Tomer
- 4 Emil V. Tolfo
- 5 Dorothy B. Schwartz
- 6 Kenneth G. + Clara M. Sarbaugh
- 7 Willis R. + Madalene Moneyperny
- 8 Daniel E. + Marilyn A. Mason
- 9 Donald L. + Victoria G. Ward
- 10 James R. + Constance M. Wilson

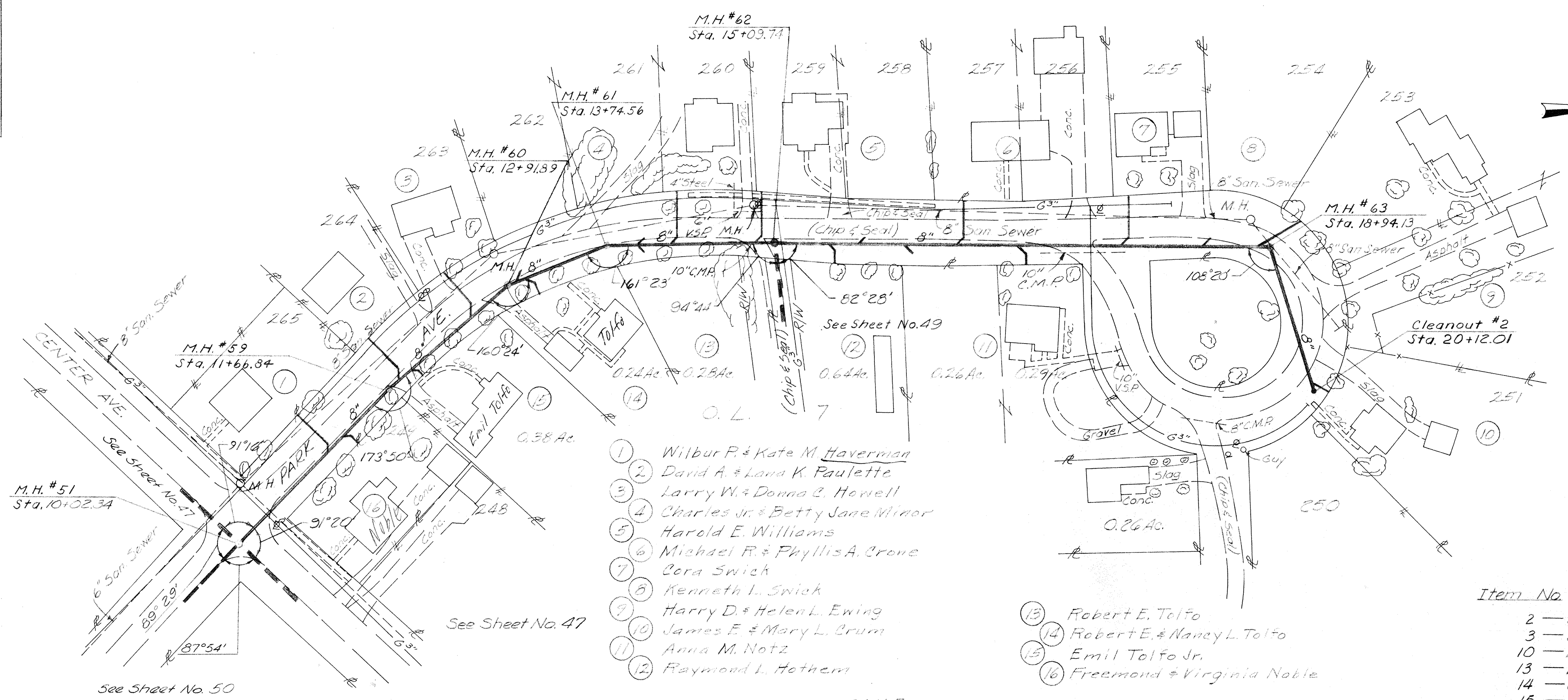
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	512	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	226	Lin. Ft.
10	Manholes, 6'-10' Deep	4	Each
11	Manholes, 10'-15' Deep	1	Each
15	Wyes, 8" x 6"	12	Each
17	6" House Connection	356	Lin. Ft.
18	Granular Backfill	163	Cu. Yd.

SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'



DR. CK'D.
 CORR. P. H. E. S.
 9-2-76

M.H. #62 ~ Sta. 15+02.89
Nail & Cap in Light Pole 22.7
Park St. 3.62
M.H. #62 11.40
Nail & Cap in 10" Maple
Hornbeam Ave. 29.72
Porch Mark in Sign

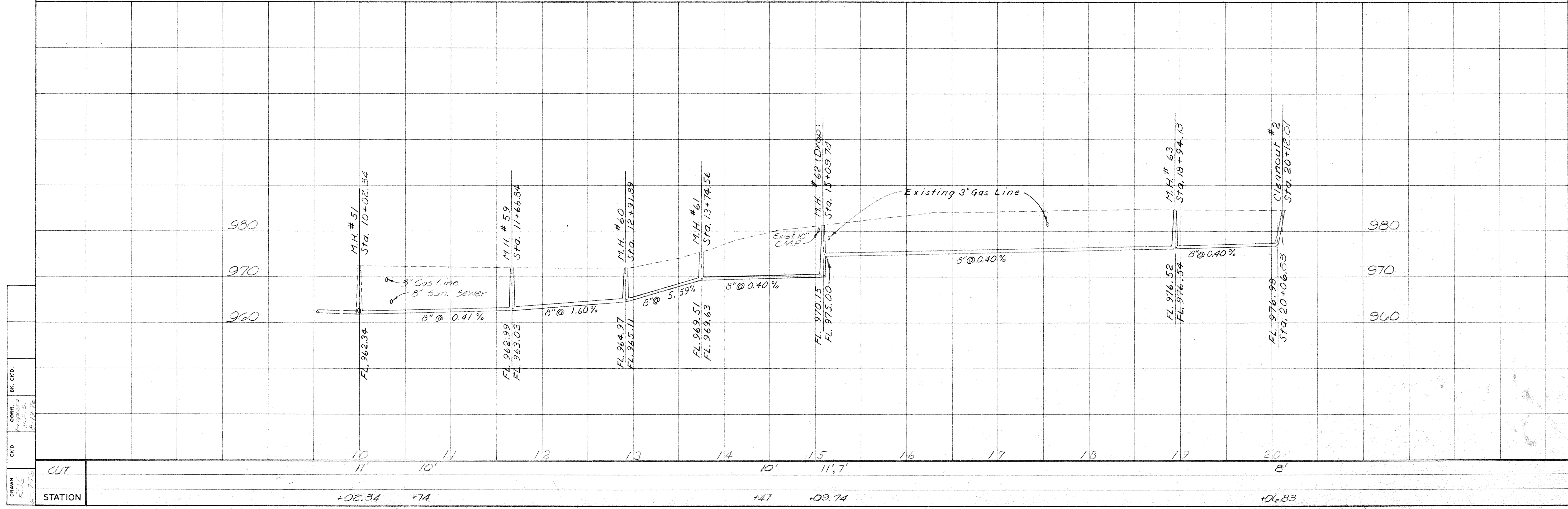


- 1 Wilbur P. & Kate M. Haverman
- 2 David A. & Lana K. Paulette
- 3 Larry W. & Donna C. Horrell
- 4 Charles Jr. & Betty Jane Minor
- 5 Harold E. Williams
- 6 Michael R. & Phyllis A. Crane
- 7 Cora Swick
- 8 Kenneth L. Swick
- 9 Harry D. & Helen L. Ewing
- 10 James E. & Mary L. Crum
- 11 Anna M. Notz
- 12 Raymond L. Hothorn
- 13 Robert E. Tolfo
- 14 Robert E. & Nancy L. Tolfo
- 15 Emil Tolfo Jr.
- 16 Fremond & Virginia Noble

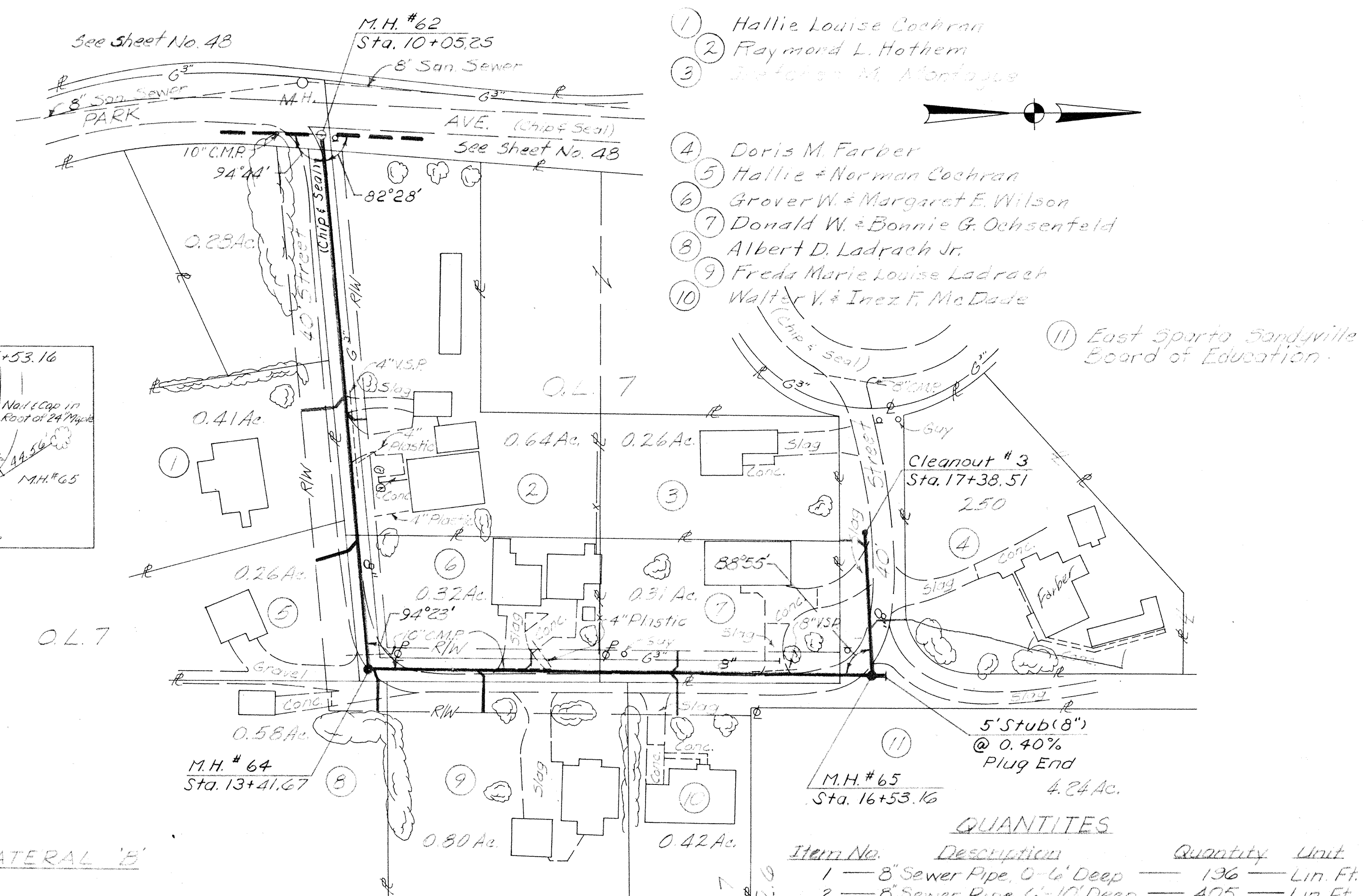
QUANTITIES

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	871	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	134	Lin. Ft.
10	Manholes, 6'-10' Deep	4	Each
13	Drop Manholes	1	Each
14	Cleanouts	1	Each
15	Wyes, 8"x6"	20	Each
17	6" House Connection	375	Lin. Ft.
18	Granular Backfill	163	Cu. Yd.

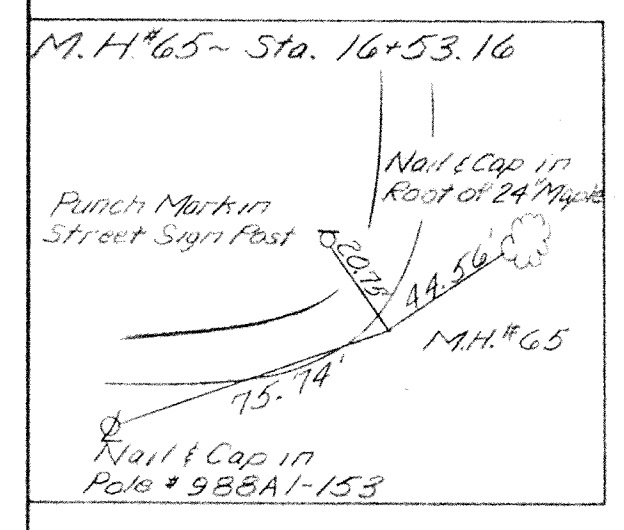
SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



BR. CK'D.
CON. Proposed
H-1-5
5/12/76
CK'D.
DRAWN
RUG
5-7-76



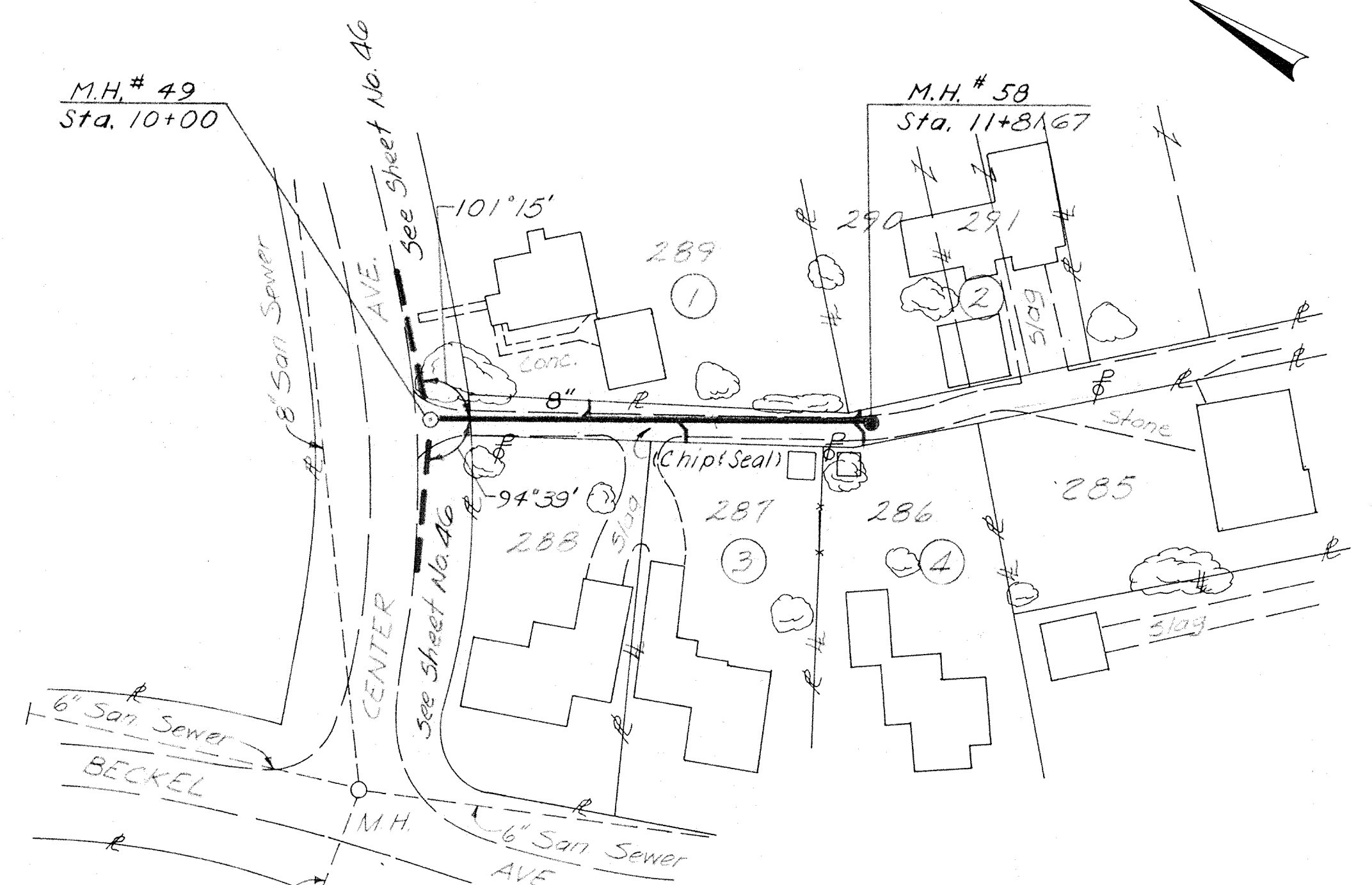
- 1 Hallie Louise Cochran
- 2 Raymond L. Hothorn
- 3 Jefferson M. Montague
- 4 Doris M. Farber
- 5 Hallie + Norman Cochran
- 6 Grover W. + Margaret E. Wilson
- 7 Donald W. + Bonnie G. Ochsenfeld
- 8 Albert D. Ladrach Jr.
- 9 Freda Marie Louise Ladrach
- 10 Walter V. + Inez F. McDade
- 11 East Sparta, Sandyville Board of Education



QUANTITIES

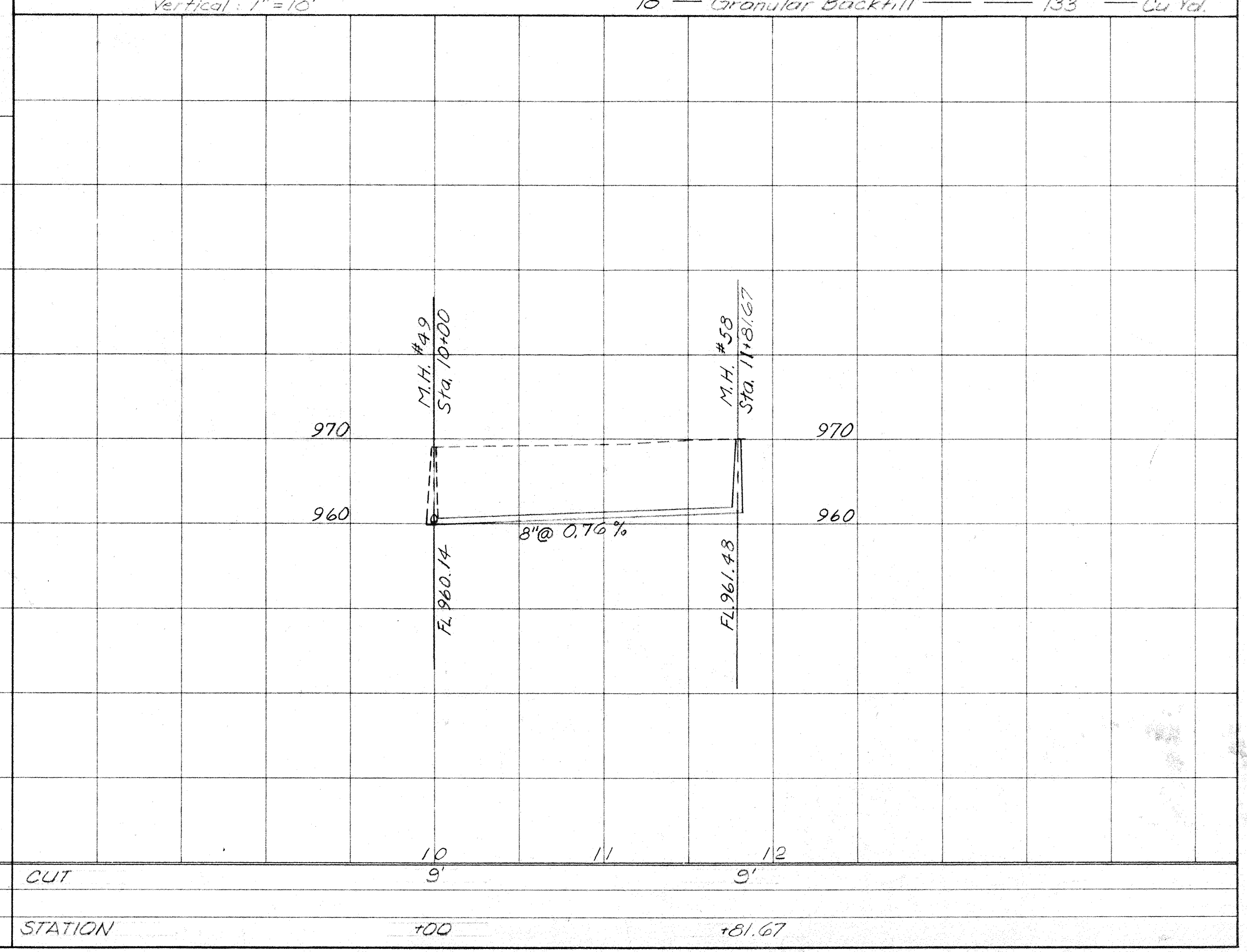
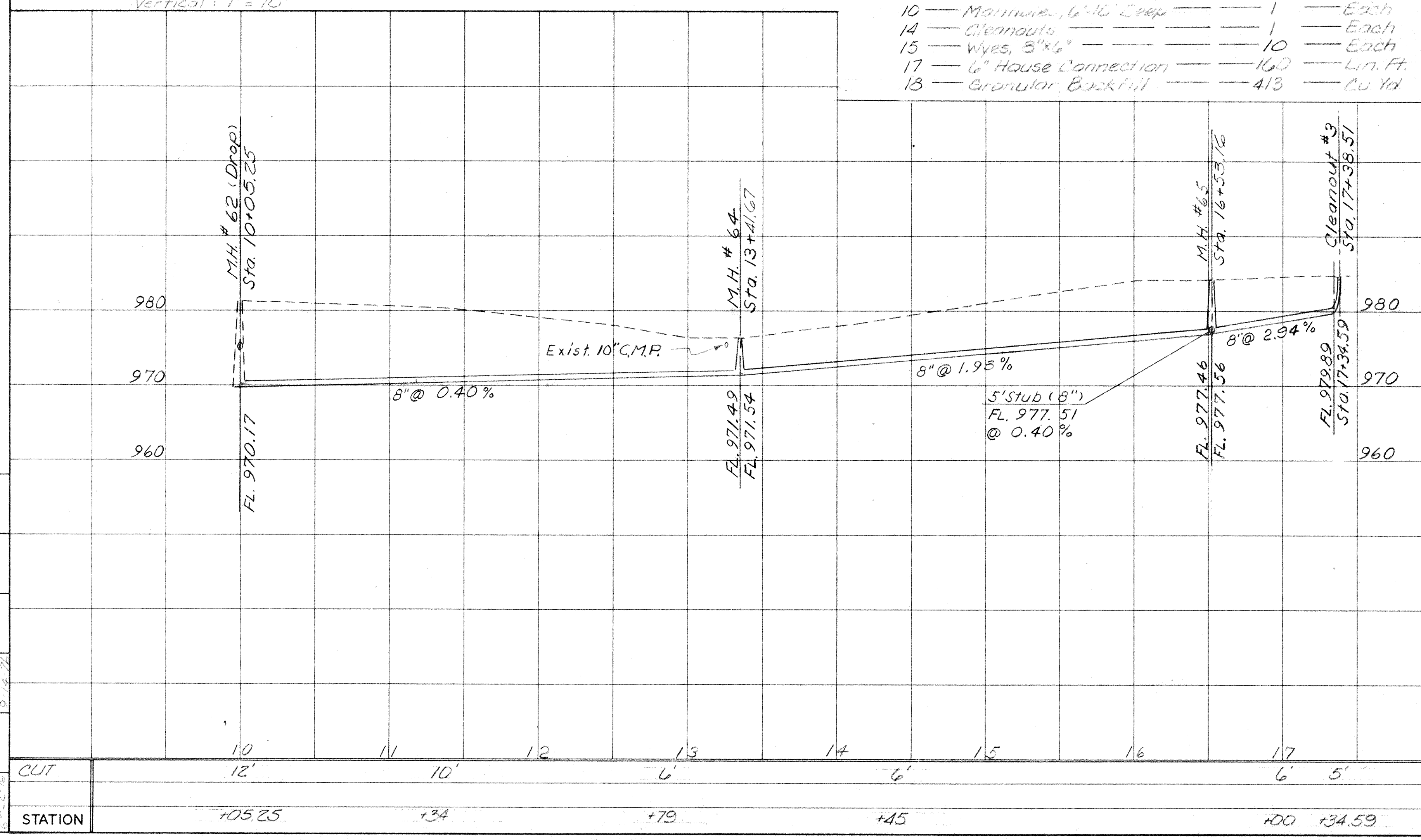
Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	136	Lin. Ft.
2	8" Sewer Pipe, 6'-10' Deep	405	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	134	Lin. Ft.
9	Manholes, 0-6' Deep	1	Each
10	Manholes, 6'-10' Deep	1	Each
14	Cleanouts	1	Each
15	Wyes, 3"x6"	10	Each
17	6" House Connection	160	Lin. Ft.
18	Granular Backfill	413	Cu Yd.

- 1 Iven R. Boyd
- 2 John M. + Laura M. Lebold
- 3 Harry A. Kesling
- 4 Richard A. + Janet M. Davis



QUANTITIES

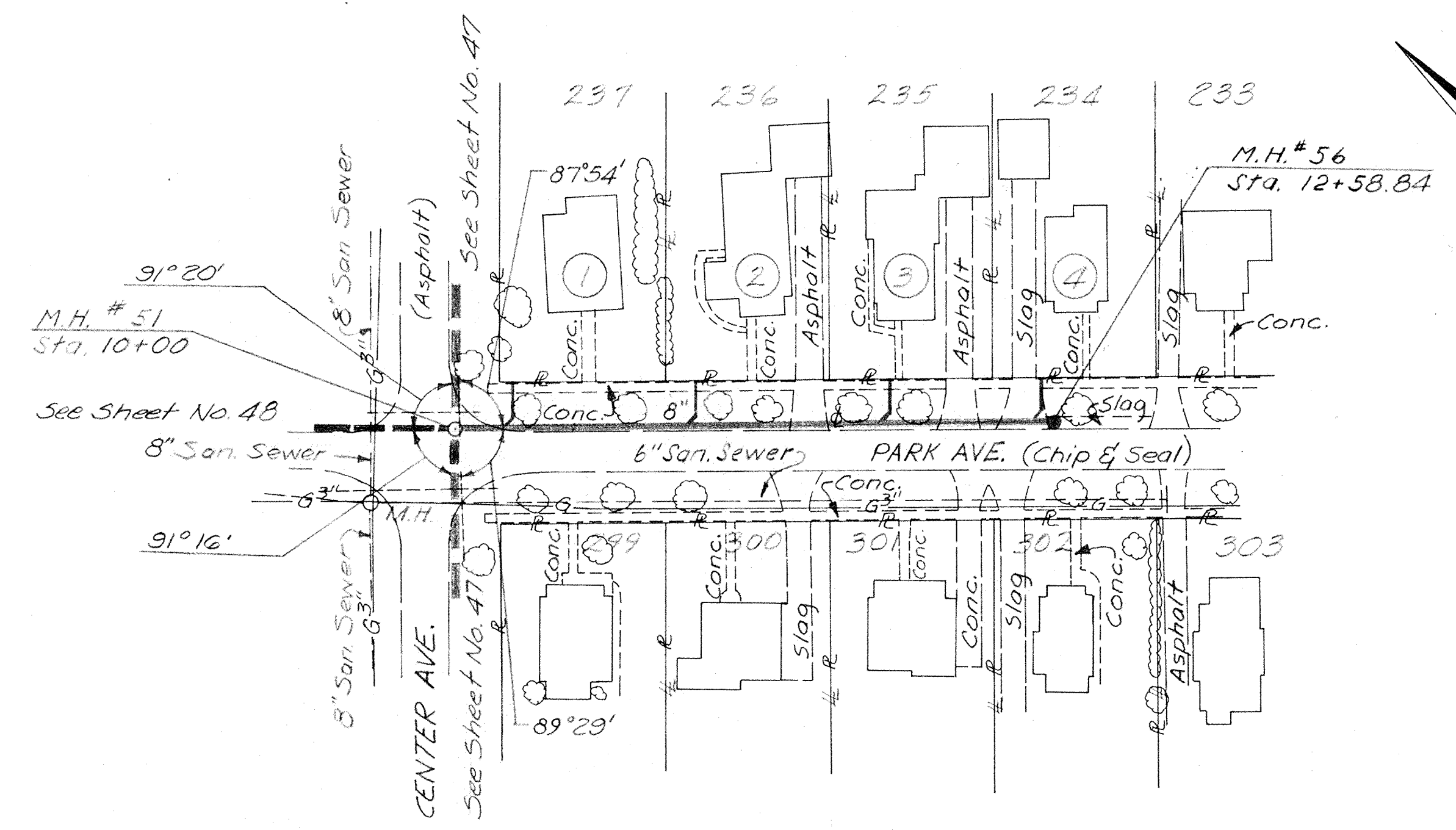
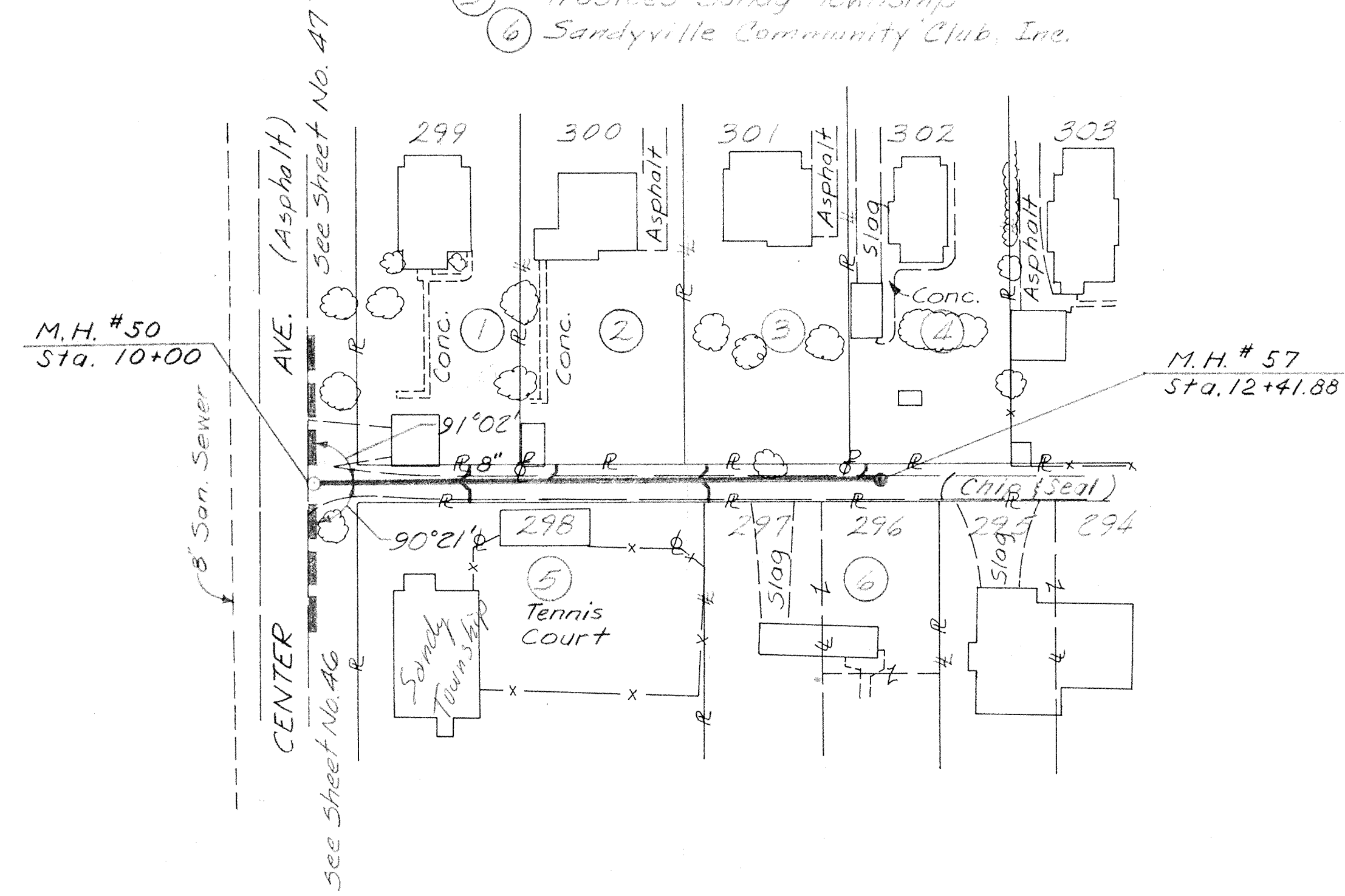
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	182	Lin. Ft.
10	Manholes, 6'-10' Deep	1	Each
15	Wyes, 8"x6"	4	Each
17	6" House Connection	32	Lin. Ft.
18	Granular Backfill	133	Cu Yd.



CK'D. SK. CK'D.
CORR. Proposed 11/2/24
DRAWN R.D.G.
DATE 11/2/24

- 1 Theodore Robert & Margaret Joyce Welker
- 2 Thomas D. & Judith A. Foush
- 3 Clarence Edward & Mary Jane Strong
- 4 William A. & Marilyn Kay Jones
- 5 Trustees Sandy Township
- 6 Sandyville Community Club, Inc.

- 1 Ralph G. Schneider
- 2 Gerald D. & Gretchen Lindemood
- 3 Cleo M. & Jean Boyd
- 4 Fat W. & Jane M. Bennett



LATERAL 'A'

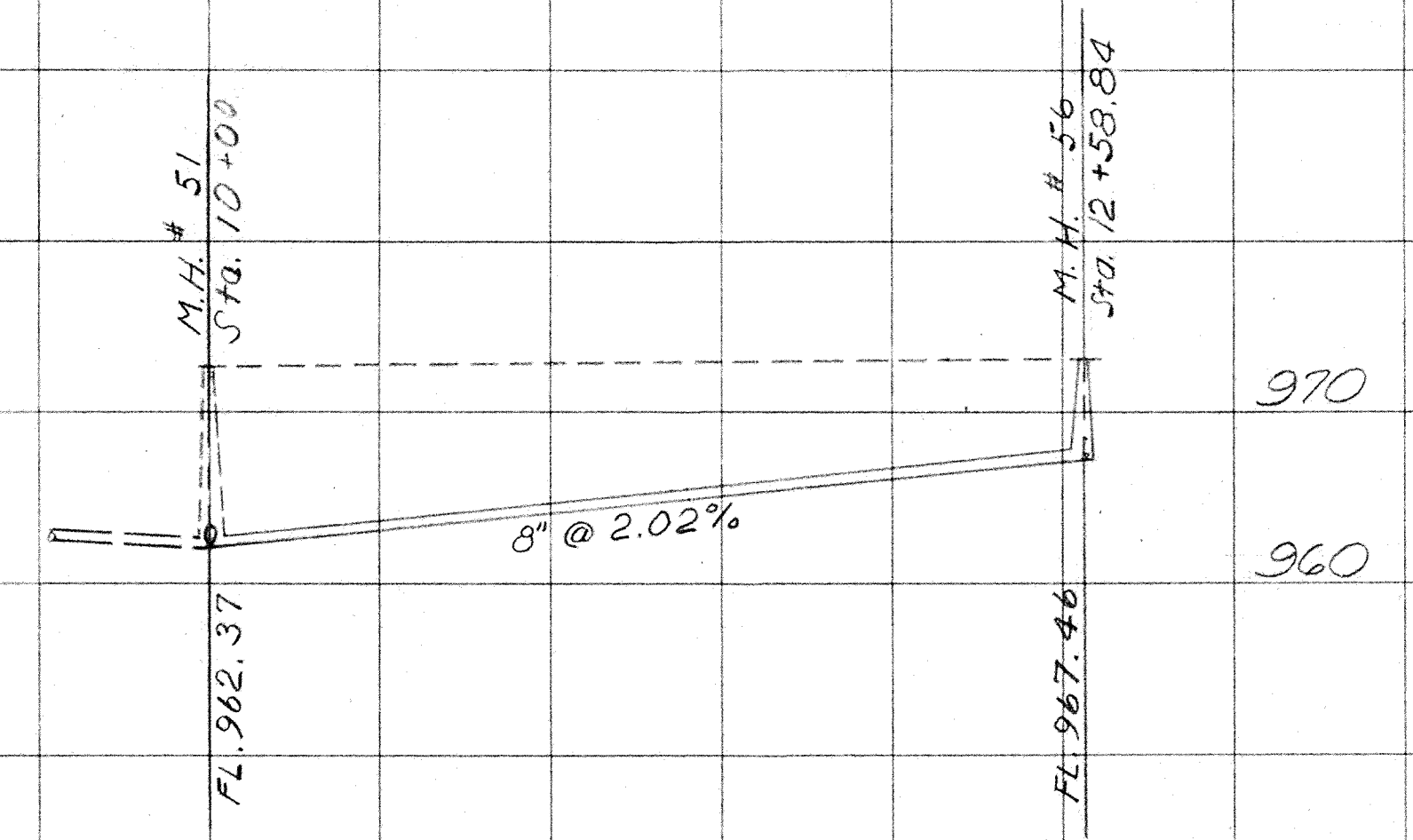
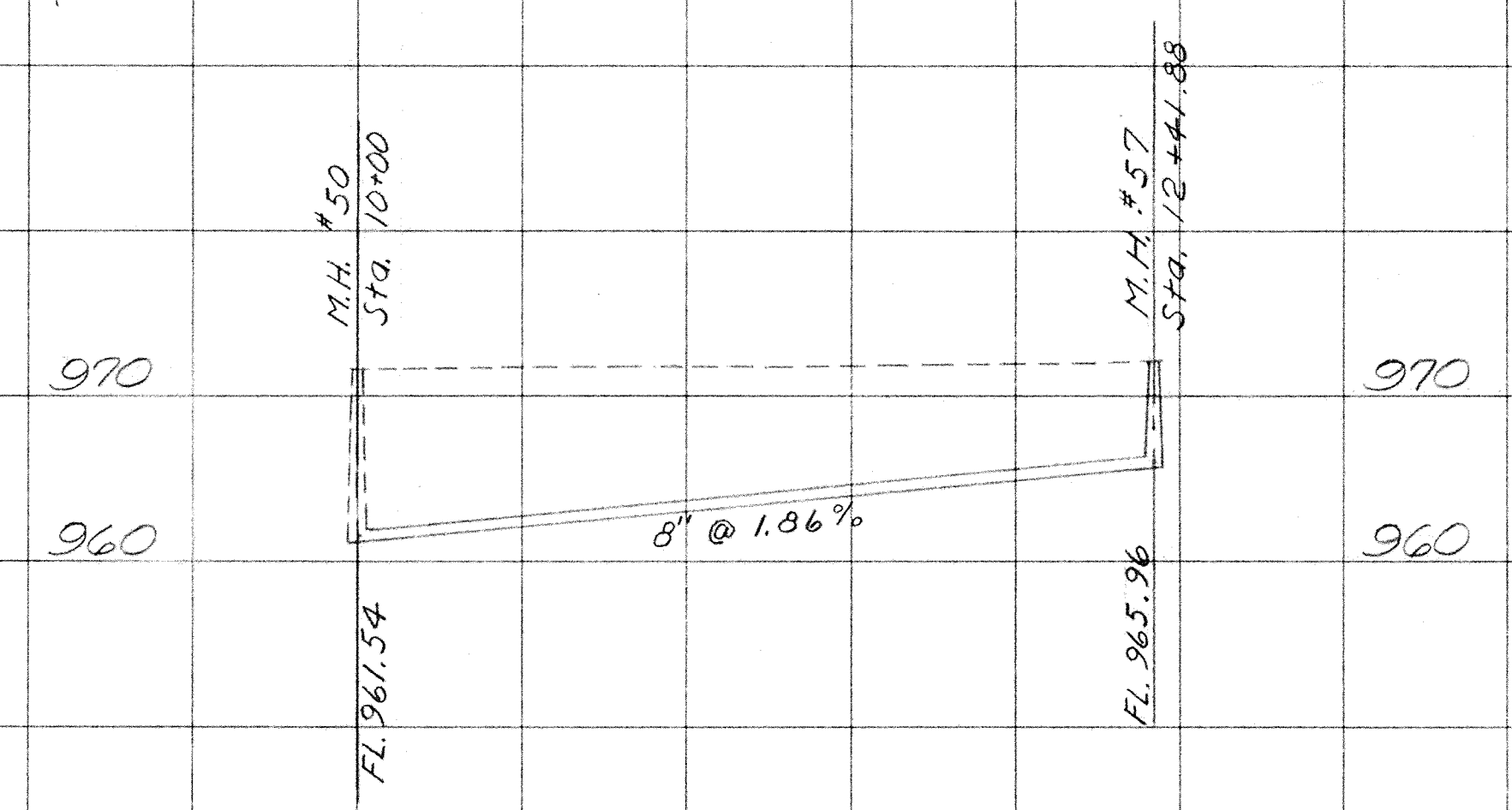
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10" Deep	212	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	30	Lin. Ft.
10	Manholes, 6'-10" Deep	1	Each
15	Wyes, 8"x6"	4	Each
17	6" House Connection	42	Lin. Ft.
18	Granular Backfill	179	Cu. Yd.

PARK AVENUE LATERAL 'B'

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10" Deep	226	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	33	Lin. Ft.
10	Manholes, 6'-10" Deep	1	Each
15	Wyes, 8"x6"	4	Each
17	6" House Connection	58	Lin. Ft.
18	Granular Backfill	54	Cu. Yd.

SCALE
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Vertical: 1"=10'

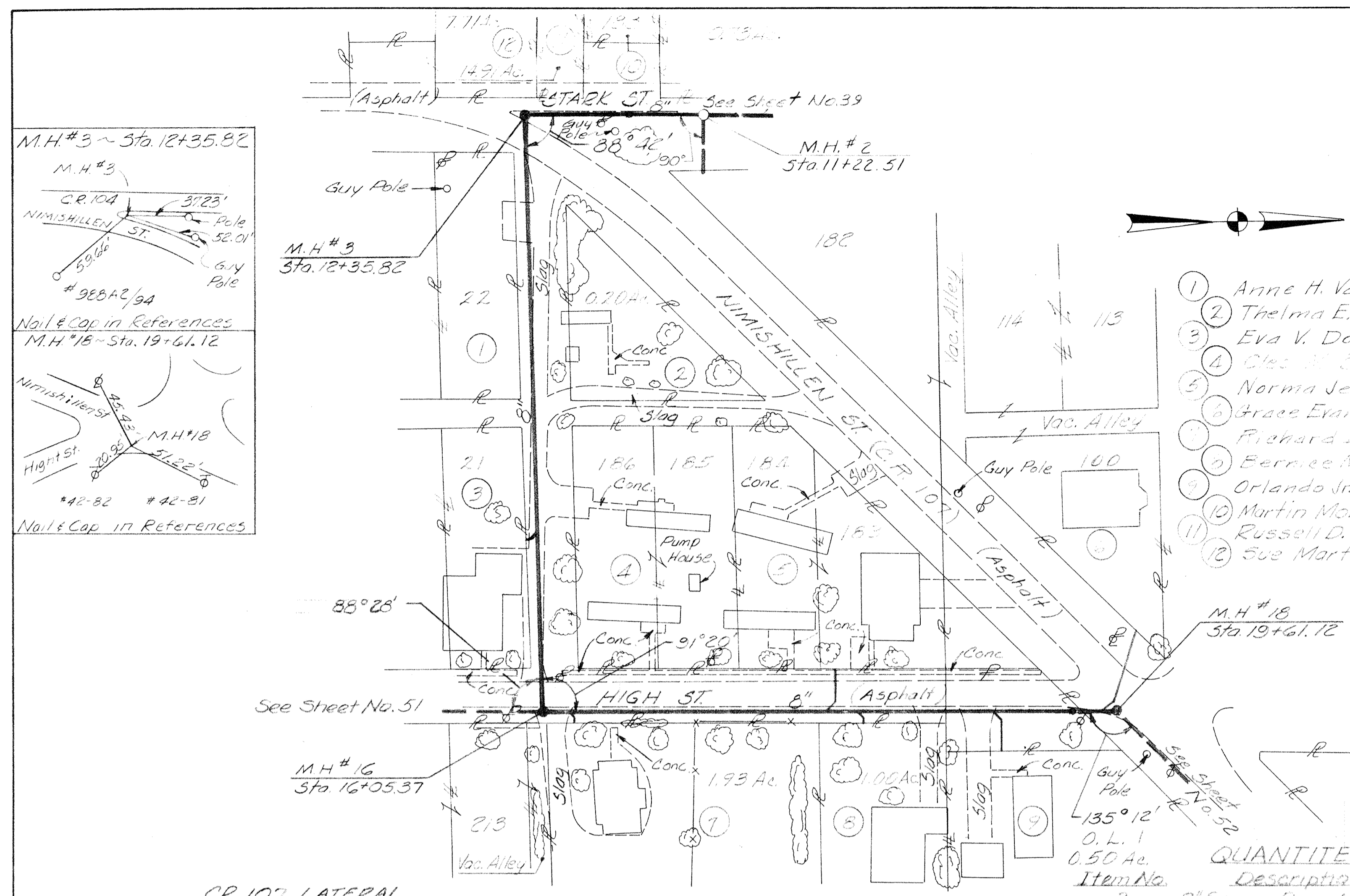
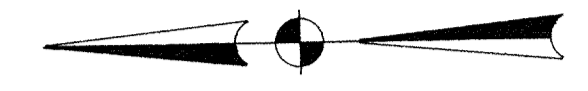
SCALE
Horizontal: 1"=50'
Vertical: 1"=10'



DRWN
CHK'D
CORR.
PAGE
NO.
DATE

CUT	11'	10'	7'	11'	10'	6'
STATION	100	+30	41.88	100	+33	58.84

① Sandy Township Board of Education
② Leon L. & Anne H. Van Voorhis



M.H.#3 - Sta. 12+35.82
M.H.#2 - Sta. 11+22.51
M.H.#6 - Sta. 16+05.37
M.H.#18 - Sta. 19+61.12

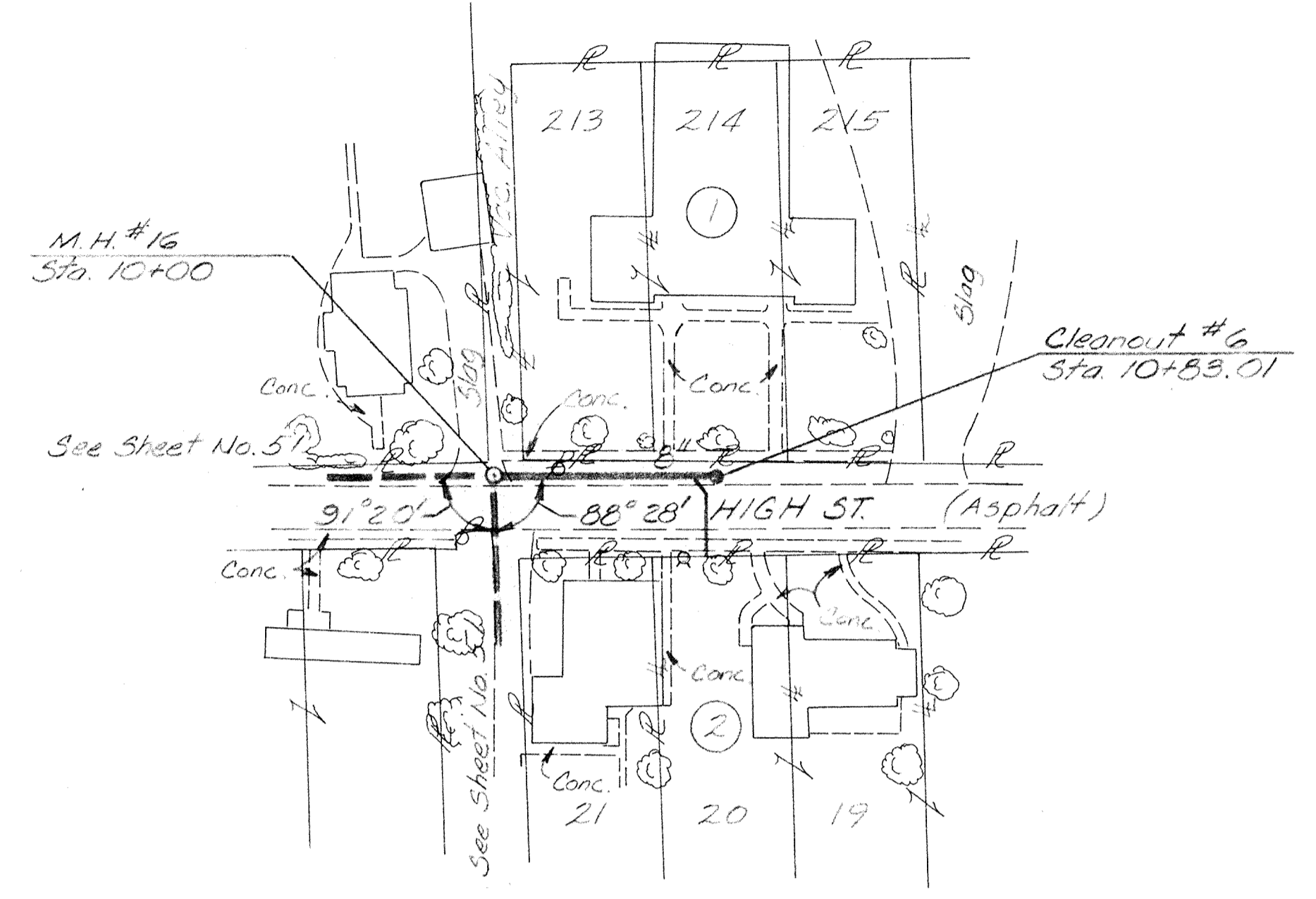
Nail & Cap in References
M.H.#15 - Sta. 19+61.12

Nail & Cap in References
M.H.#17 - Sta. 19+61.12

- ① Anne H. Van Voorhis
- ② Thelma E. Reading
- ③ Eva V. Dolvin
- ④ Oles M. Esau
- ⑤ Norma Jean Boyd
- ⑥ Grace Ewing of the Lutheran Church
- ⑦ Richard L. & Marjorie E. Schlimm
- ⑧ Bernice M. Farber
- ⑨ Orlando Jr. & Ruth L. Castelli
- ⑩ Martin Mobile Home Sales, Inc.
- ⑪ Russell D. & Dorothy M. Coble
- ⑫ Sue Martin

QUANTITIES

Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10" Deep	244	Lin. Ft.
3	8" Sewer Pipe, 10'-14" Deep	595	Lin. Ft.
10	Manholes, 6'-10" Deep	2	Each
11	Manholes, 10'-15" Deep	1	Each
15	Wyes, 8"x6"	6	Each
17	6" House Connection	123	Lin. Ft.
18	Granular Backfill	404	Cu. Yd.

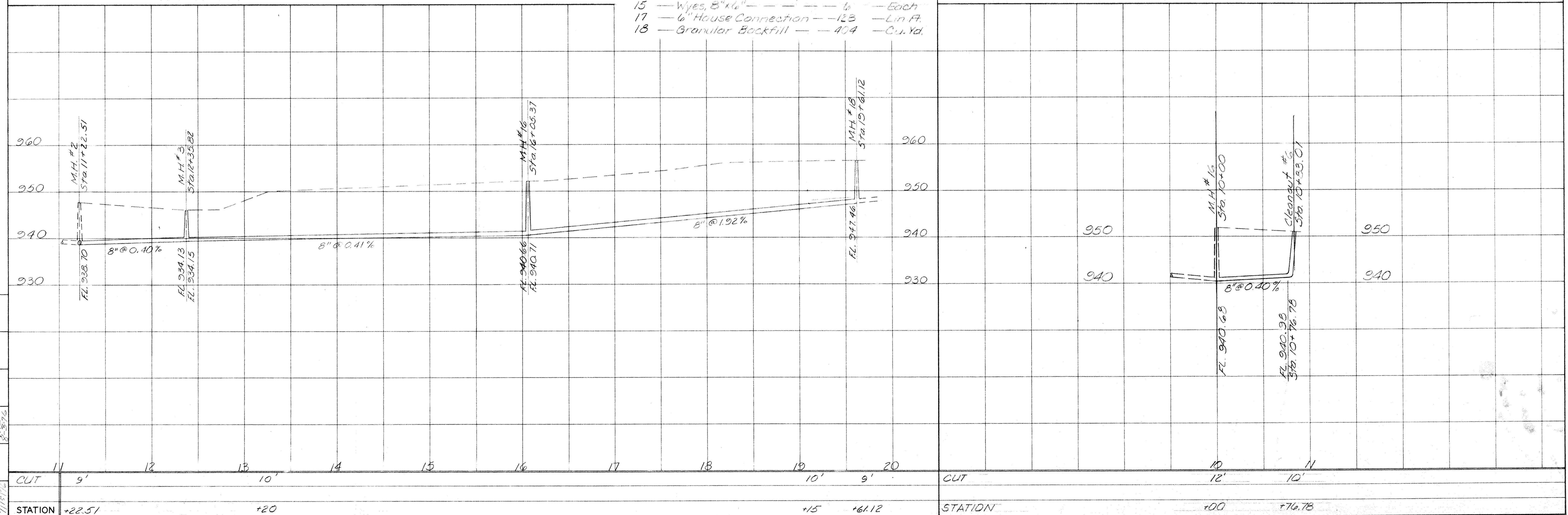


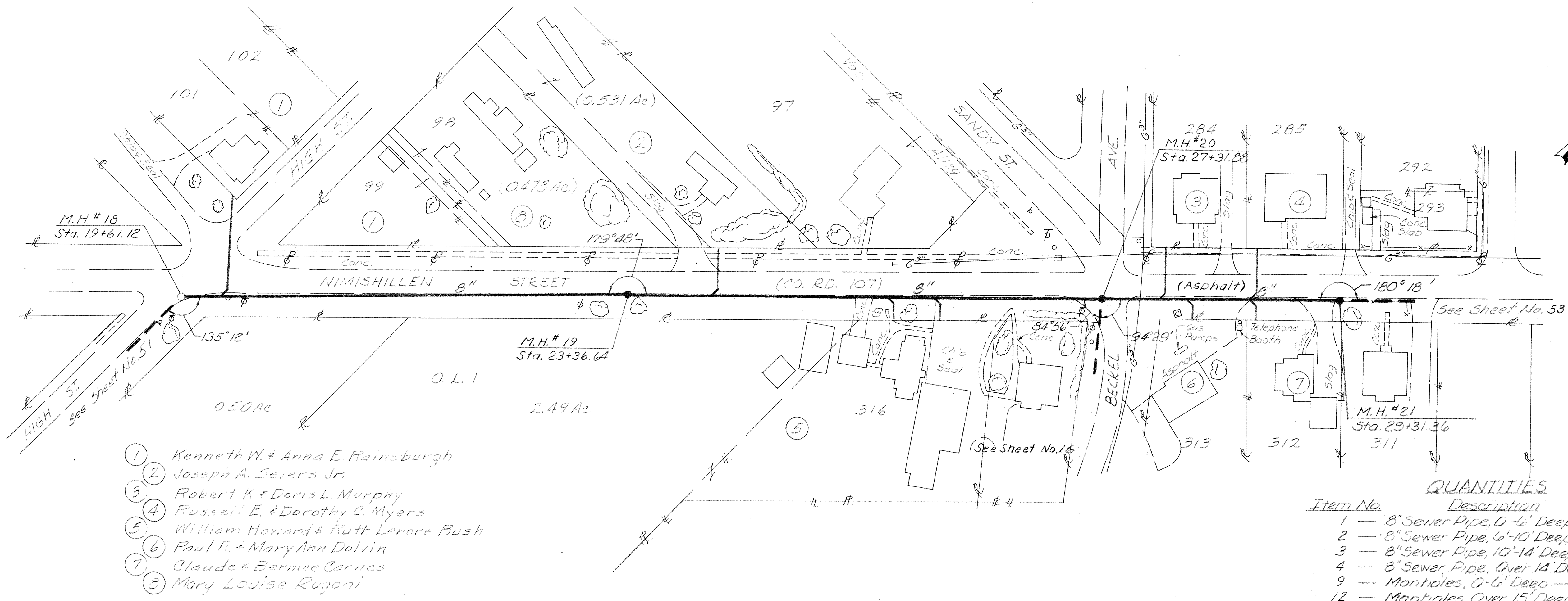
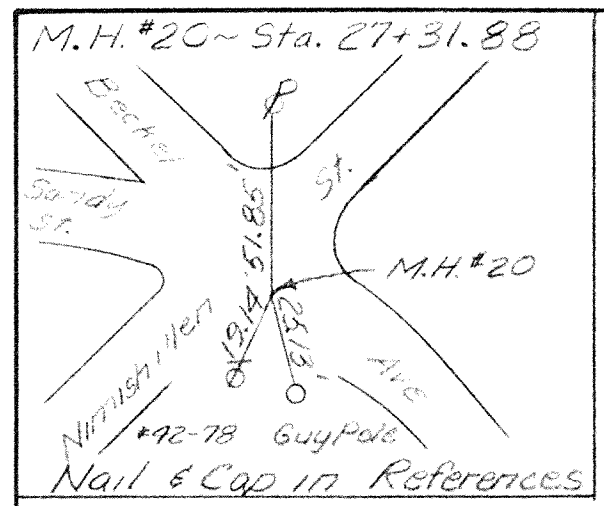
QUANTITIES

Item No.	Description	Quantity	Unit
3	8" Sewer Pipe, 10'-14" Deep	77	Lin. Ft.
14	Cleanout	1	Each
15	Wyes, 8"x6"	1	Each
17	6" House Connection	30	Lin. Ft.
18	Granular Backfill	19	Cu. Yd.

CR 107 LATERAL
SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'

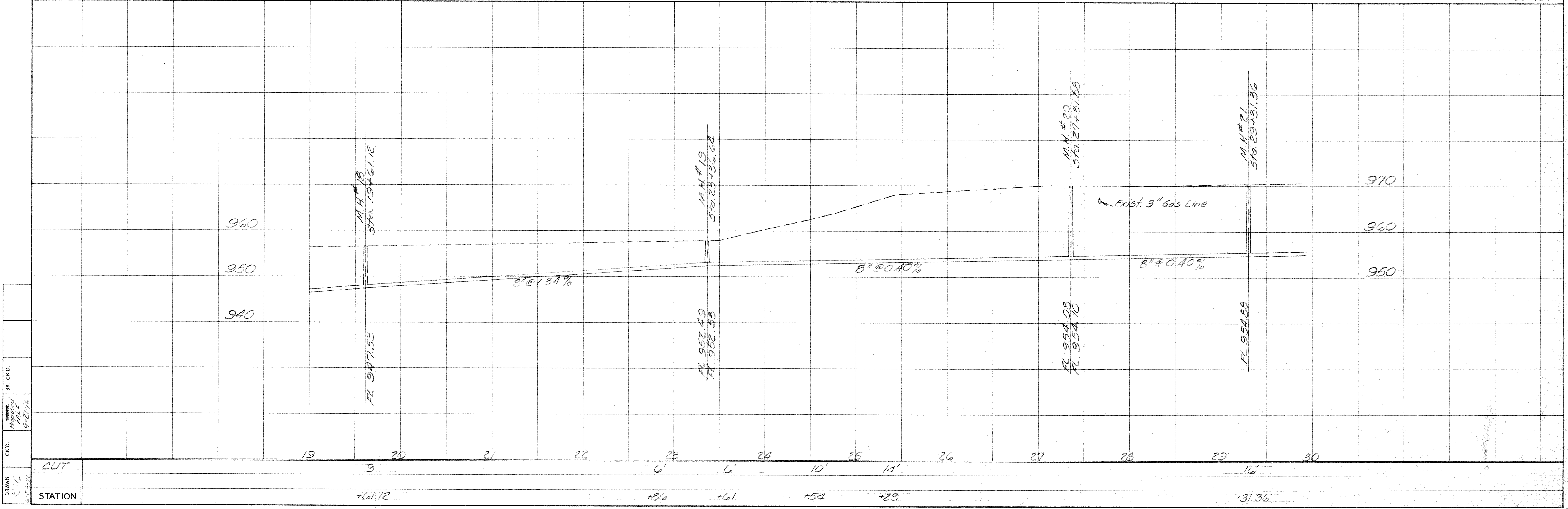
HIGH ST. LATERAL
SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'





Item No.	Description	Quantity	Unit
1	8" Sewer Pipe, 0-6' Deep	75	Lin. Ft.
2	8" Sewer Pipe, 6'-10' Deep	418	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	75	Lin. Ft.
4	8" Sewer Pipe, Over 14' Deep	403	Lin. Ft.
9	Manholes, 0-6' Deep	1	Each
12	Manholes, Over 15' Deep	2	Each
15	Wyes, 8"x6"	2	Each
17	1/2" House Connection	231	Lin. Ft.
18	Granular Backfill	796	Cu. Yd.

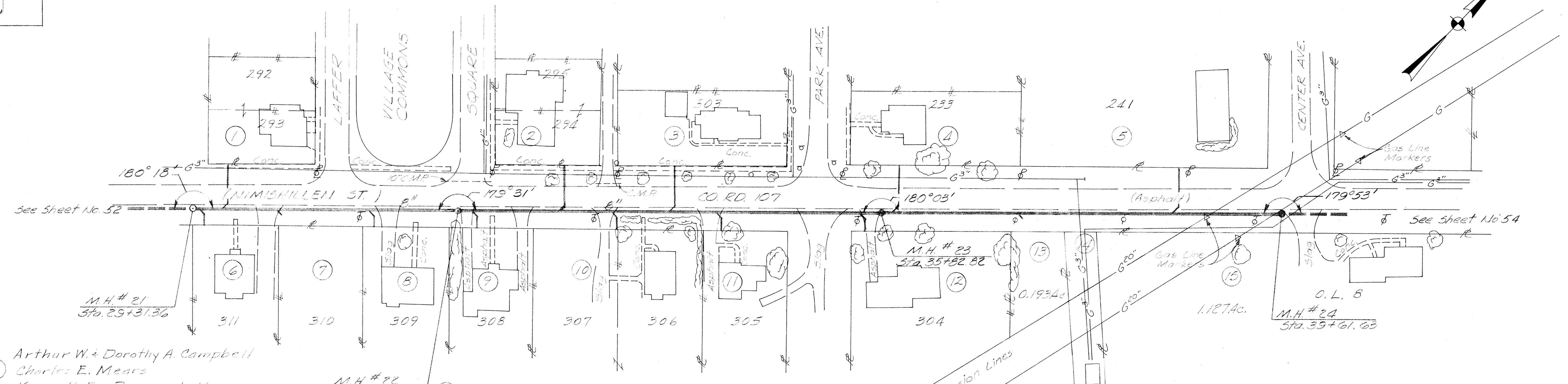
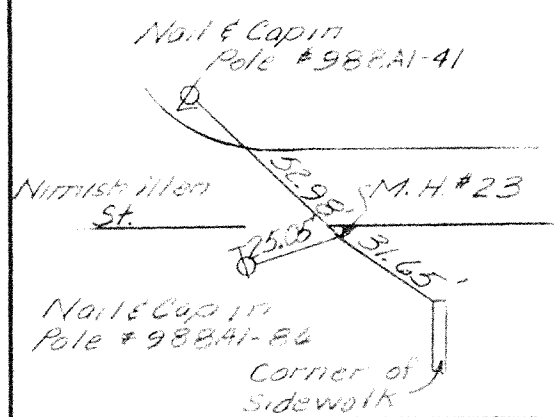
SCALE
 Horizontal: 1" = 50'
 Vertical: 1" = 10'



BR. CKD.
 DRAWN
 RJC
 9-27-78

CUT
 STATION

M.H. #23 - Sta 35+82.82

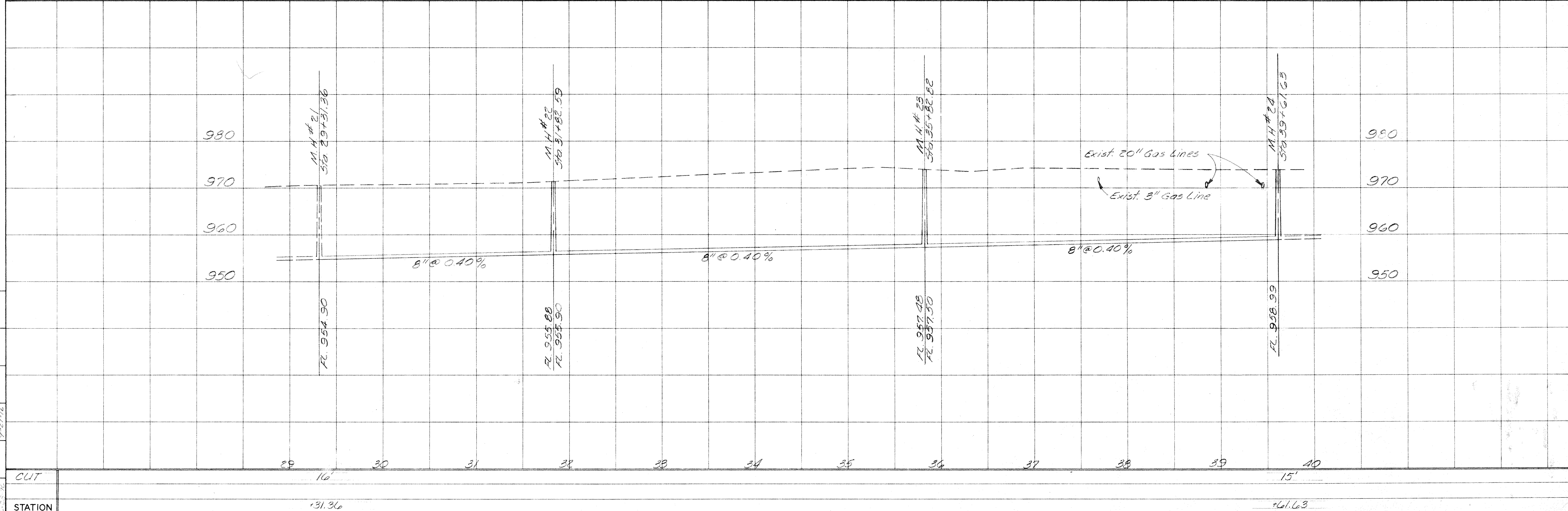


- ① Arthur W. & Dorothy A. Campbell
- ② Charles E. Mears
- ③ Kenneth B. & Ramona L. Mapp
- ④ Walter Max Lebold
- ⑤ Evelyn X. Oswald
- ⑥ Willard S. & Louise Hanni
- ⑦ Robert Speaker
- ⑧ Dorothy A. Reynolds
- ⑨ Harry & Rhea Espenscheid
- ⑩ David & Janice Materna
- ⑪ Max R. Lebold
- ⑫ John D. & Jo Anne Burkhardt
- ⑬ Edgar Spring, Inc.
- ⑭ East Ohio Gas Co.
- ⑮ Edgar E. & Gloria J. English

QUANTITIES

Item No.	Description	Quantity	Unit
4	8" Sewer Pipe, Over 14' Deep	1031	Lin. Ft.
12	Manholes, Over 15' Deep	3	Each
15	Wyes, 8"x6"	13	Each
17	6" House Connection	315	Lin. Ft.
18	Granular Backfill	424	Cu. Yd.

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



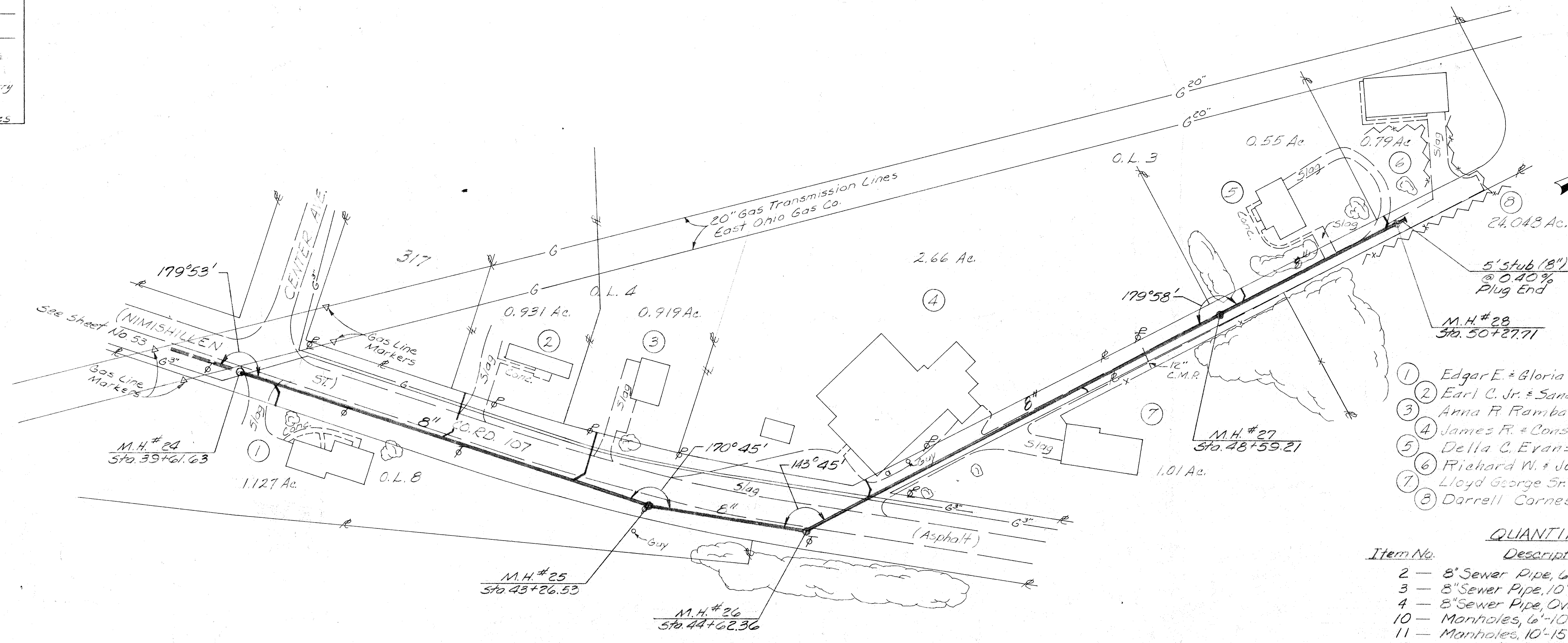
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CHKD: [Signature]
CORR: [Signature]
BK. CKD: [Signature]

M.H.#26 - Sta 44+62.36

Nimishillen St
M.H.#26
12" Sycamore 15" W. Cherry
Nail Cap in Reference

COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

54
69

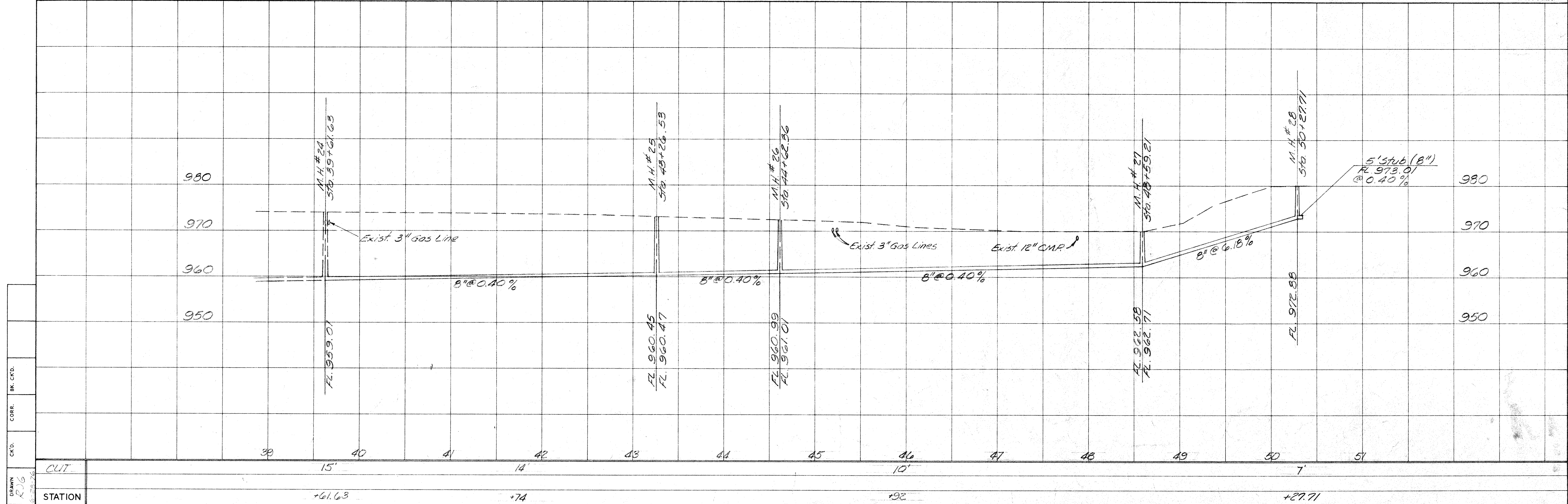


- ① Edger E. & Gloria J. English
- ② Earl C. Jr. & Sandra K. Rambaud
- ③ Anna R. Rambaud et al
- ④ James R. & Constance M. Wilson
- ⑤ Della C. Evans
- ⑥ Richard W. & Joanne Oswald
- ⑦ Lloyd George Sr. & Zoe Alta Burt
- ⑧ Darrell Cornes

QUANTITIES

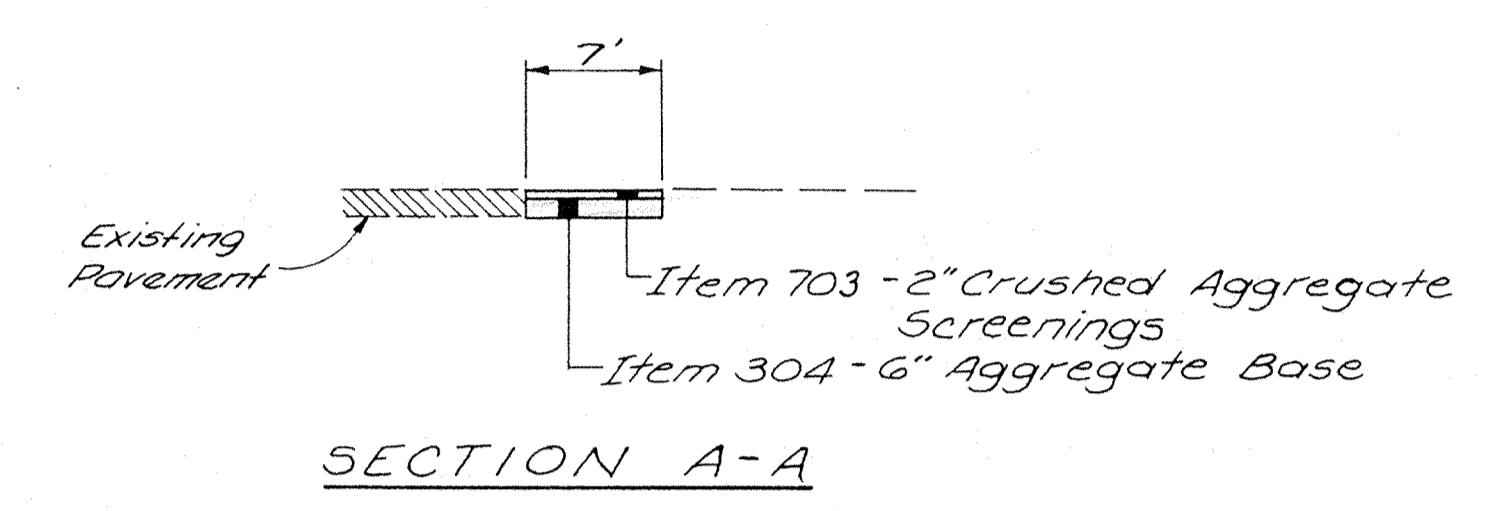
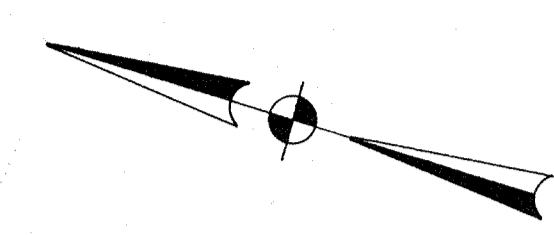
Item No.	Description	Quantity	Unit
2	8" Sewer Pipe, 6'-10' Deep	441	Lin. Ft.
3	8" Sewer Pipe, 10'-14' Deep	418	Lin. Ft.
4	8" Sewer Pipe, Over 14' Deep	213	Lin. Ft.
10	Manholes, 6'-10' Deep	2	Each
11	Manholes, 10'-15' Deep	2	Each
15	Wyes, 8"x6"	7	Each
17	6" House Connection	149	Lin. Ft.
18	Granular Backfill	489	Cu. Yd.

SCALE
Horizontal: 1" = 50'
Vertical: 1" = 10'



DRAWN: RUG
CHK'D:
CORR.
BY: CKD.

CUT	15'	14'	10'	7'
STATION	+61.63	+74	+92	+27.71

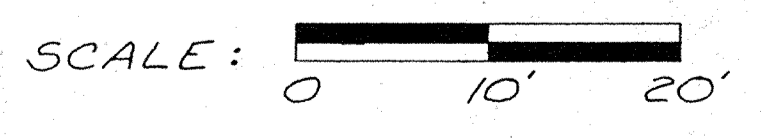
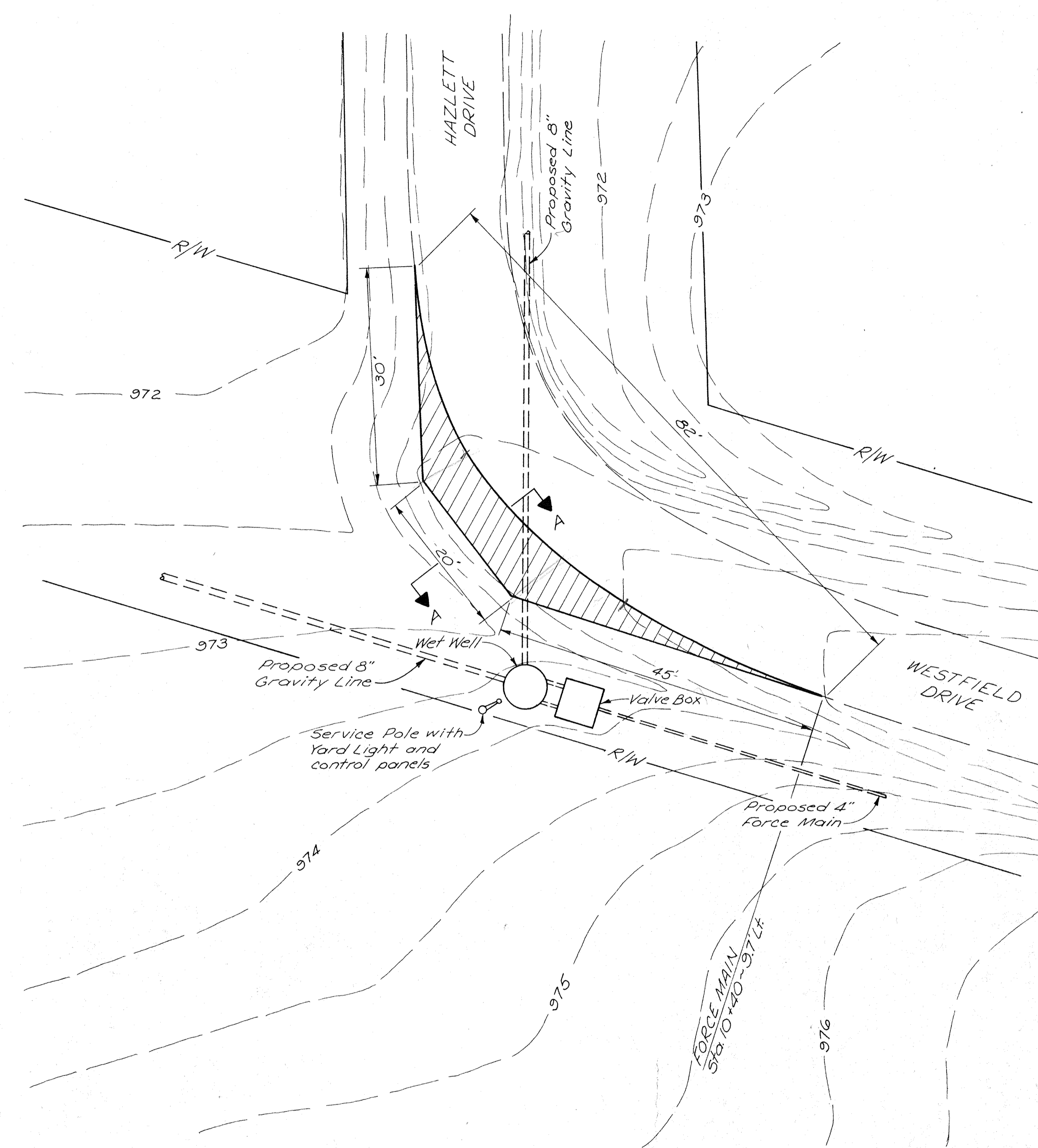


NOTES

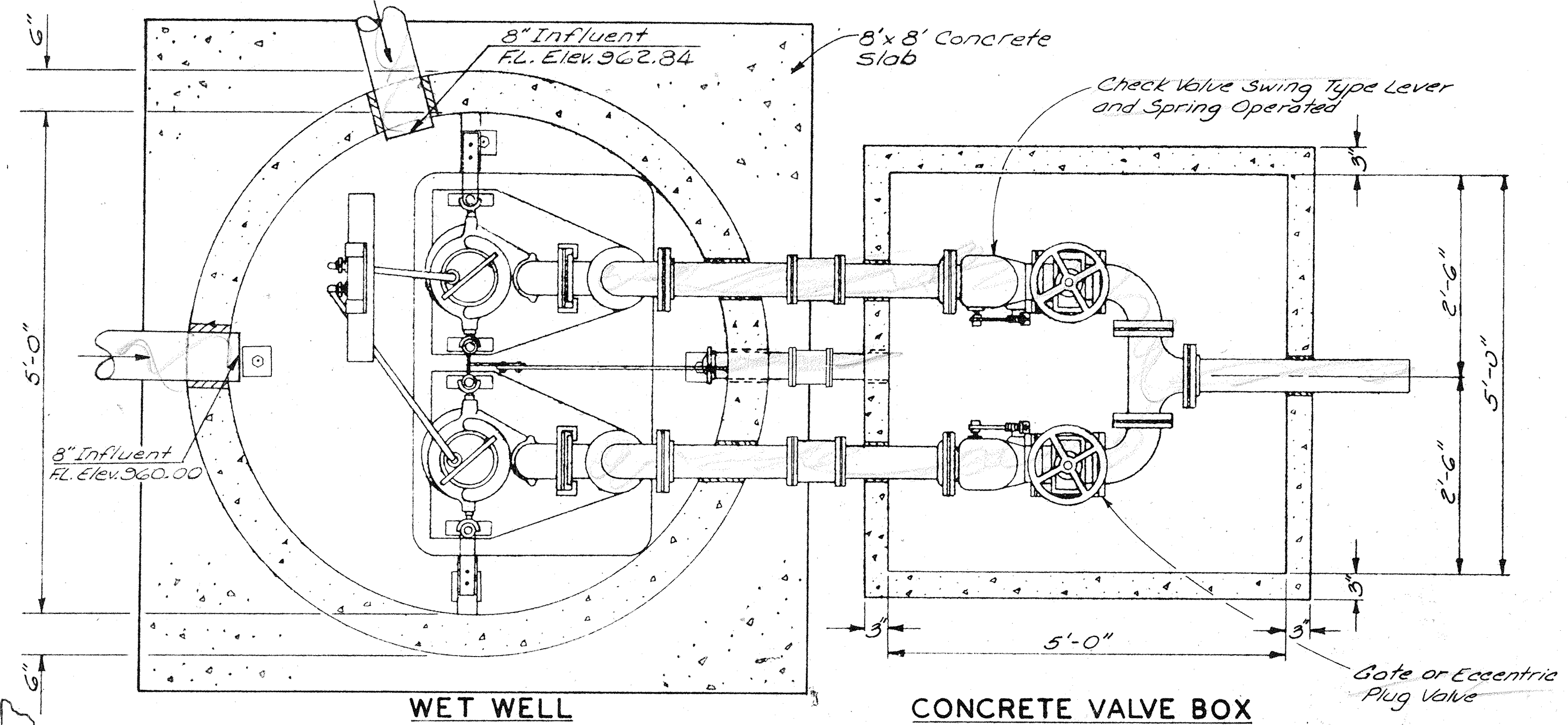
1. Wet Well and Valve Box shall be placed flush with proposed grade.
2. Landscaping shall be performed in accordance with specification 5-9 as directed by the Engineer.
3. The Access Pullover shall be placed in reasonably close conformity to the lines and grades shown on the plans or established by the Engineer. The cost of the access pullover shall be included with the Lump sum price for the Pump Station Complete and in Place.
4. An electrical service pole shall be supplied and erected by the Contractor in a suitable location determined at the time of construction. The pole shall be set to a minimum depth of five(5) feet below the finished grade elevation. It shall support a grounded service meter which will be furnished by the Power Company and installed by the Contractor. An anchor and guy may be required depending upon length of service drop and/or soil conditions. The pole shall also support a yard light which shall be supplied and erected by the Contractor. The cost of the service pole, yard light, service meter and all conduit, wiring and fittings necessary to perform this work shall be included with the unit price for Pump Station No. 1 complete and in place.

For Force Main Plan and Profile, See Sheet No. 26
 For Gravity Line Plan and Profile, See Sheet Nos. 27 & 32
 For Pump Station Details, See Sheet No. 56

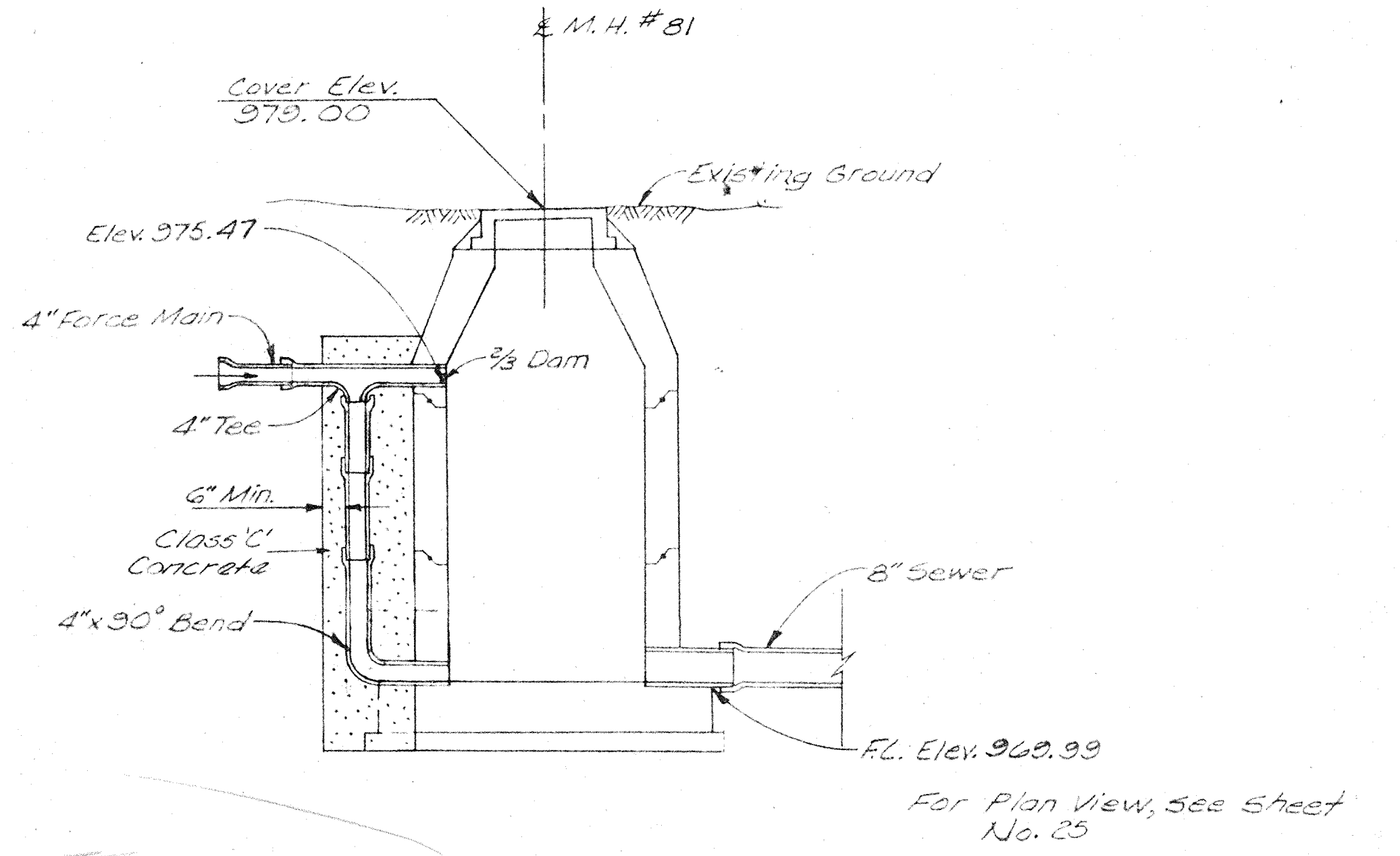
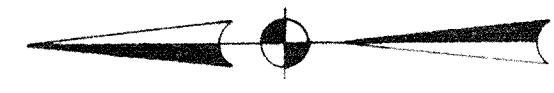
5/3/0
 2-1
 140
 100
 40
 224



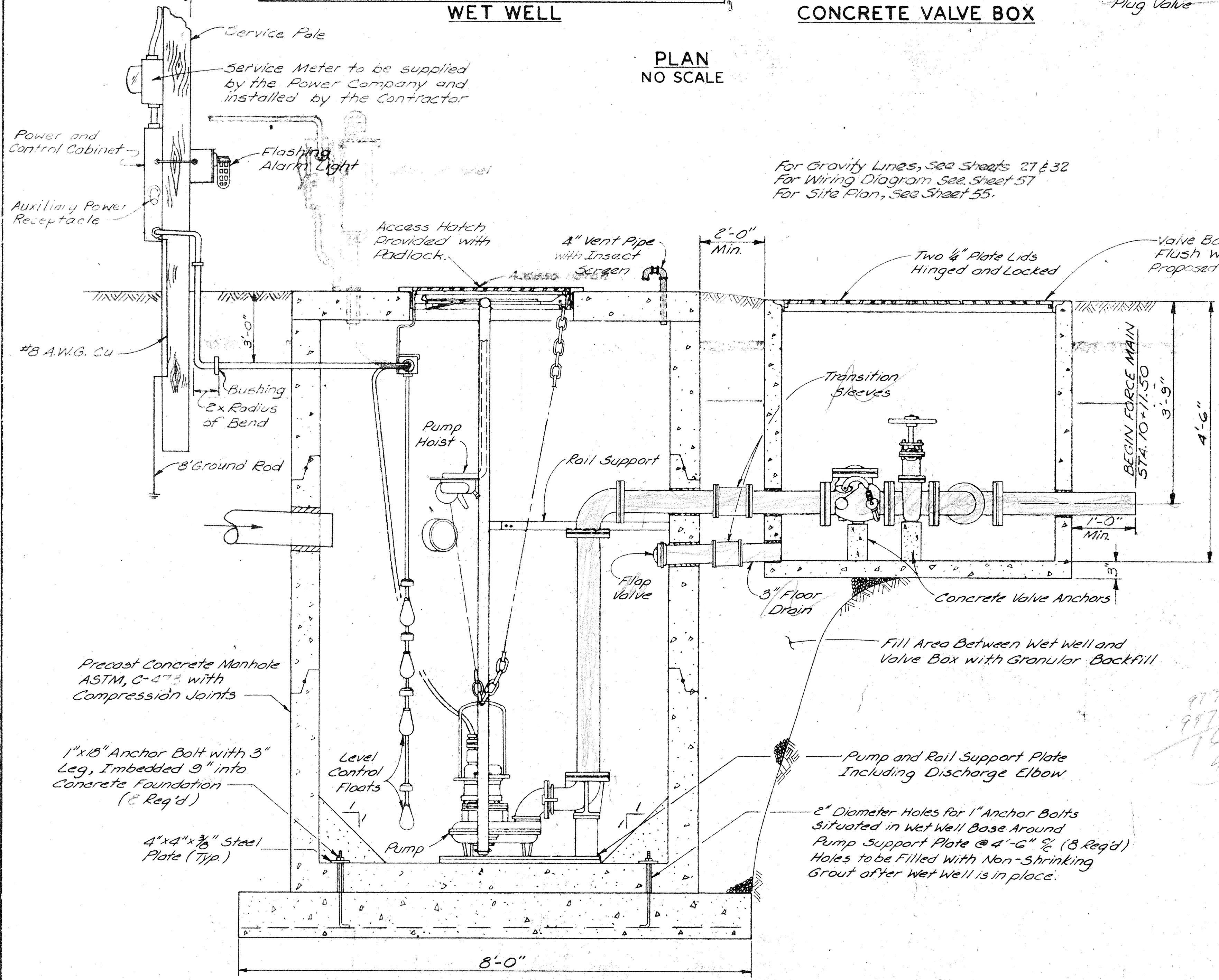
TERRY
 PUC
 10-12-96



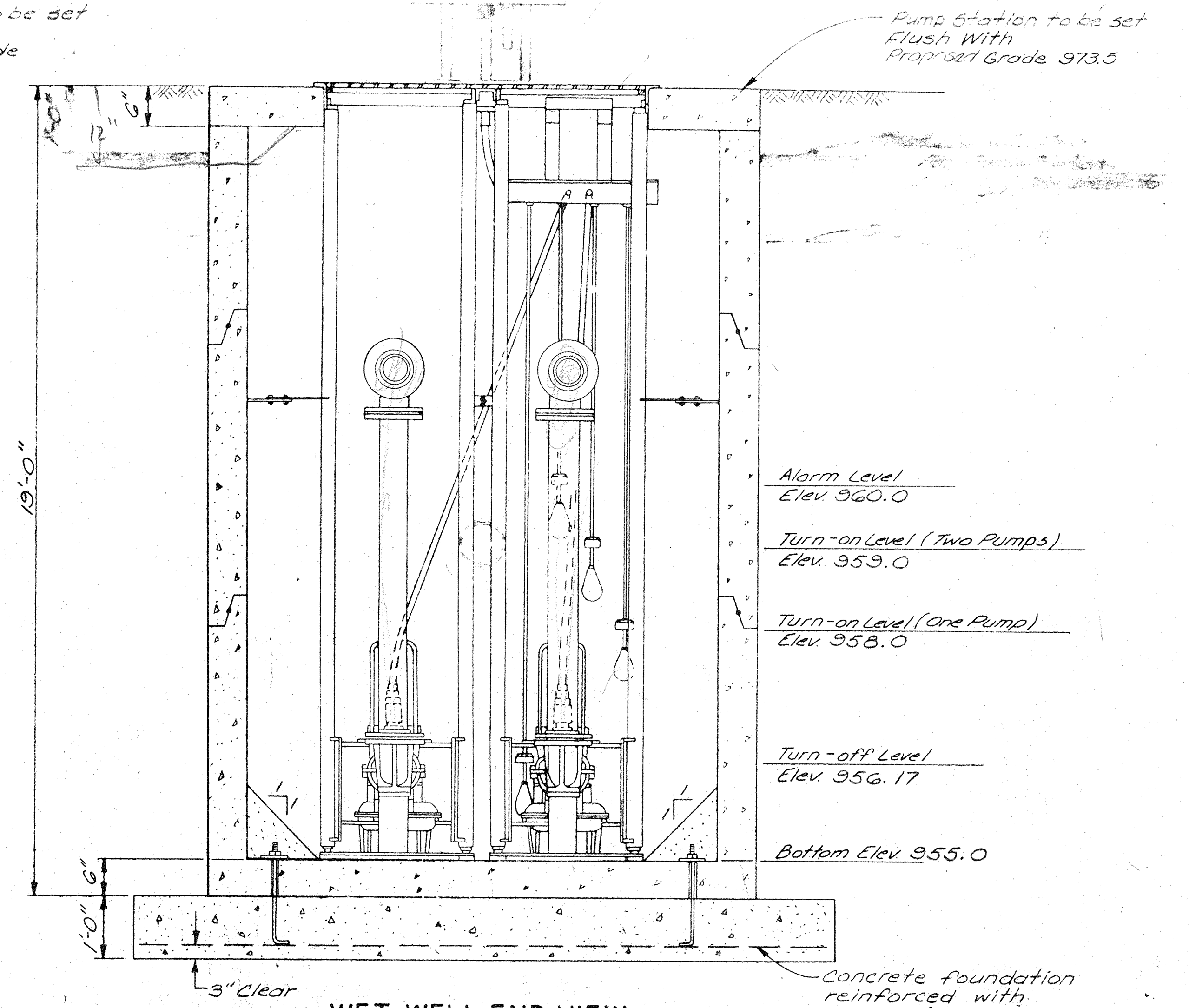
PLAN
NO SCALE



FORCE MAIN TERMINATION
DETAIL
(No Scale)



ELEVATION
NO SCALE

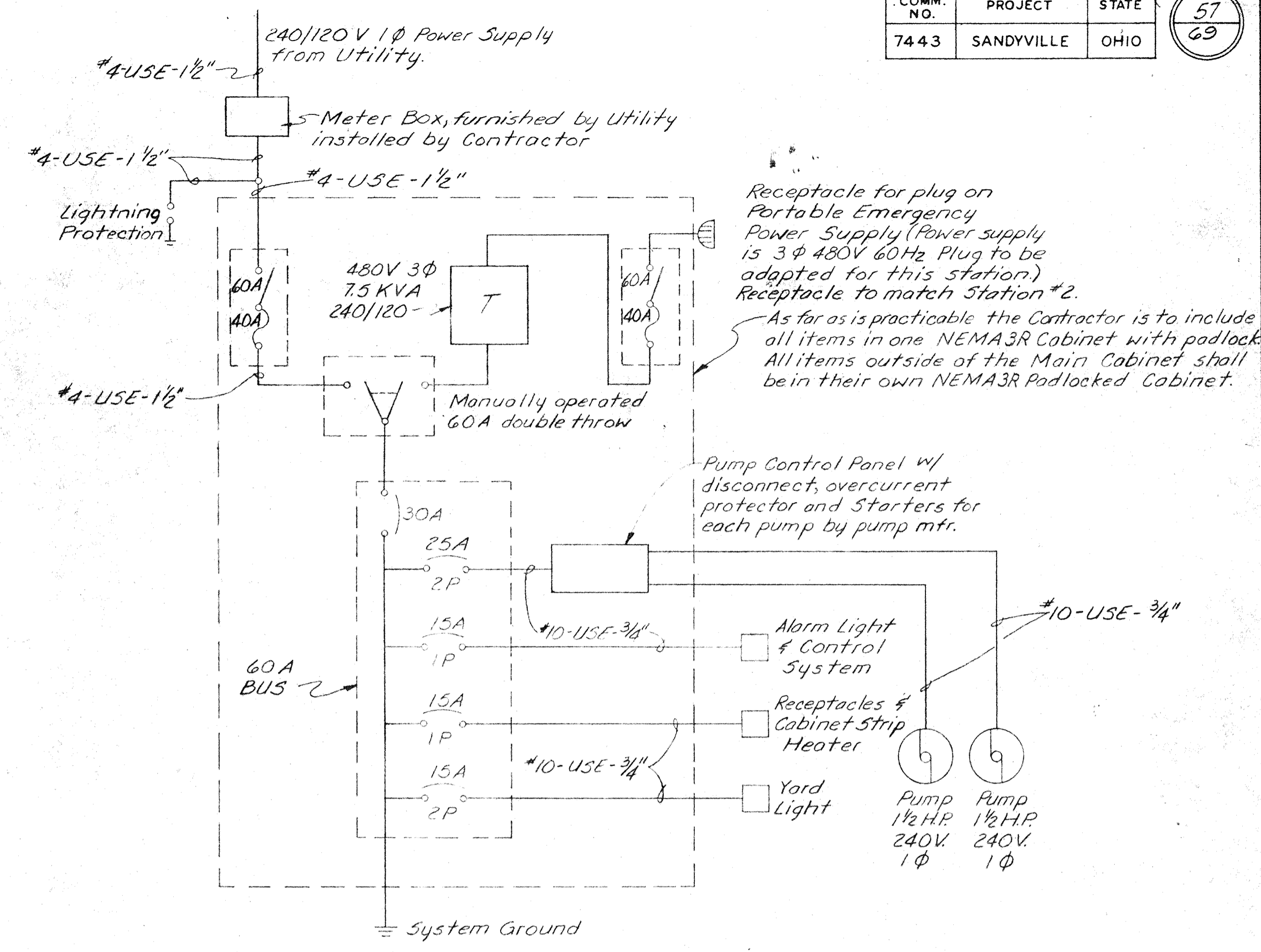


WET WELL END VIEW
NO SCALE

COMM. NO.	PROJECT	STATE
7443	SANDYVILLE	OHIO

57
69

GENERAL NOTES



SANDYVILLE PUMP STATION NO. 1
WIRING DIAGRAM

Note: THHN wire may be used for all interior wiring within a control cabinet. Whenever wire is run underground, type USE or UF shall be used in accordance with N.E.C. requirements.

For General Notes and Misc. Details, See Sheet No. 66.

Wiring Diagram

NOTES

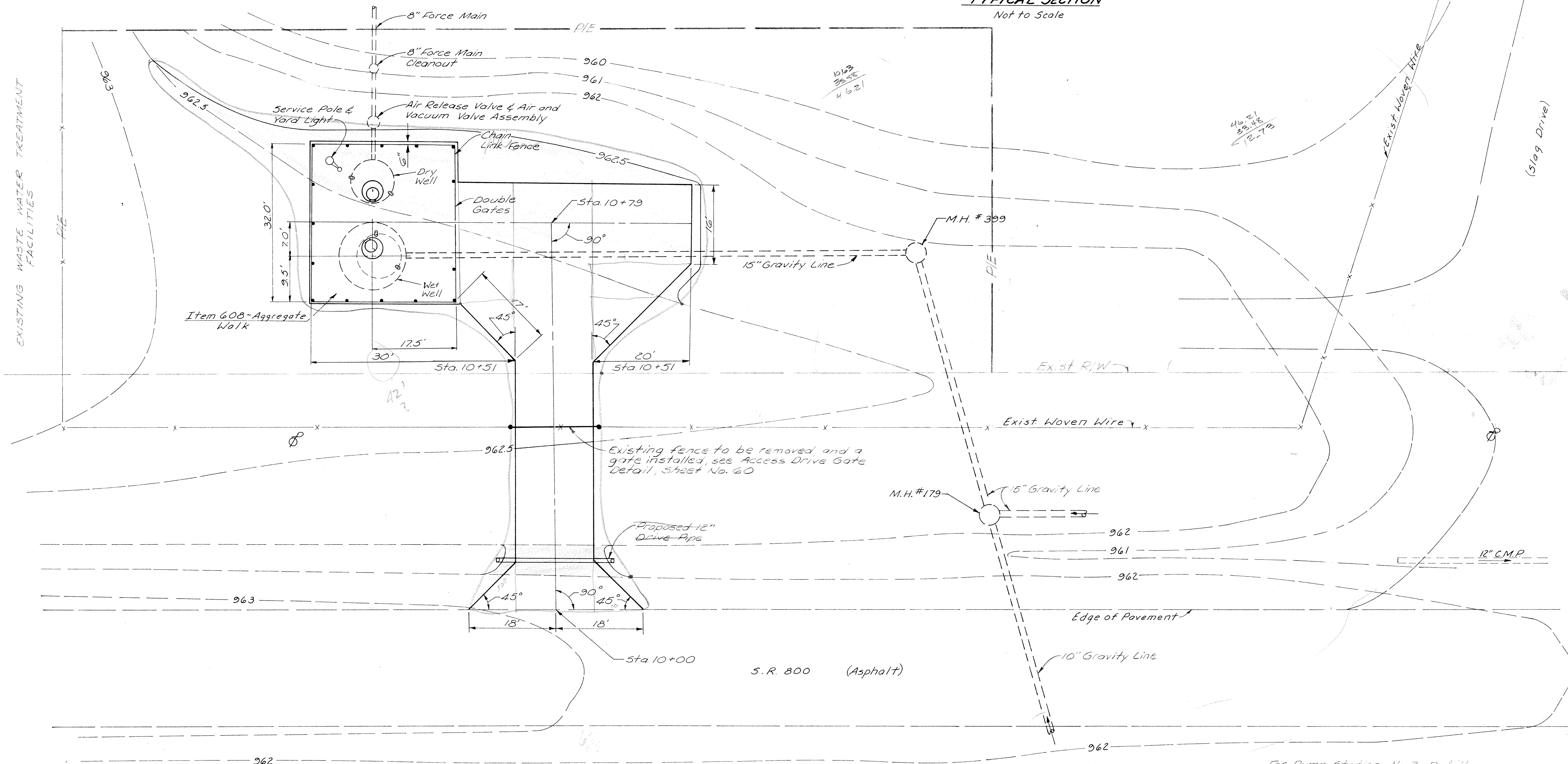
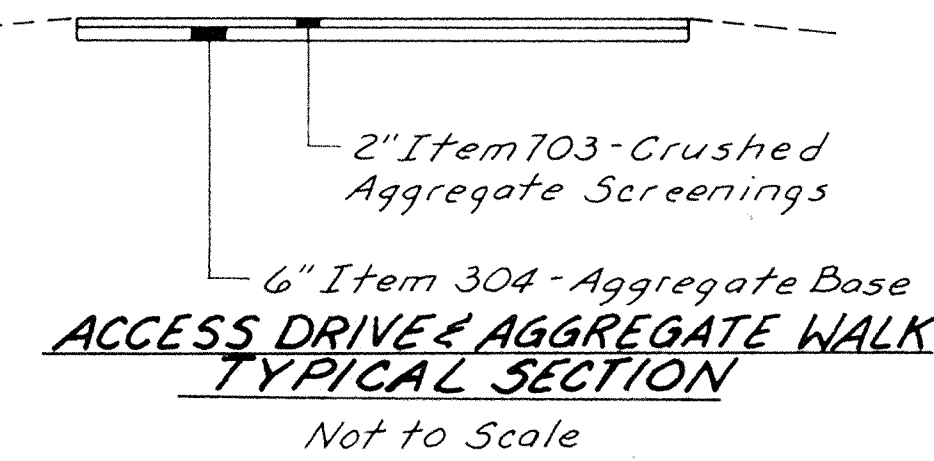
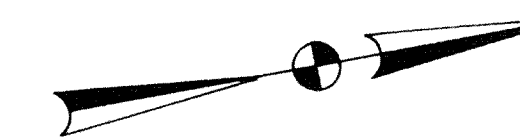
1. An electrical service pole shall be supplied and erected by the Contractor in a suitable location determined at the time of construction. The pole shall be set to a minimum depth of five (5) feet below the finished grade elevation. It shall support a grounded service meter which will be furnished by the Power Company and installed by the Contractor. An anchor and guy may be required depending upon length of service drop and/or soil conditions. The pole shall also support a yard light which shall be supplied and erected by the Contractor. The cost of the service pole, yard light, service meter and all conduit, wiring and fittings necessary to perform this work shall be included with the unit price for Pump Station No. 2 complete and in place.

NOTES

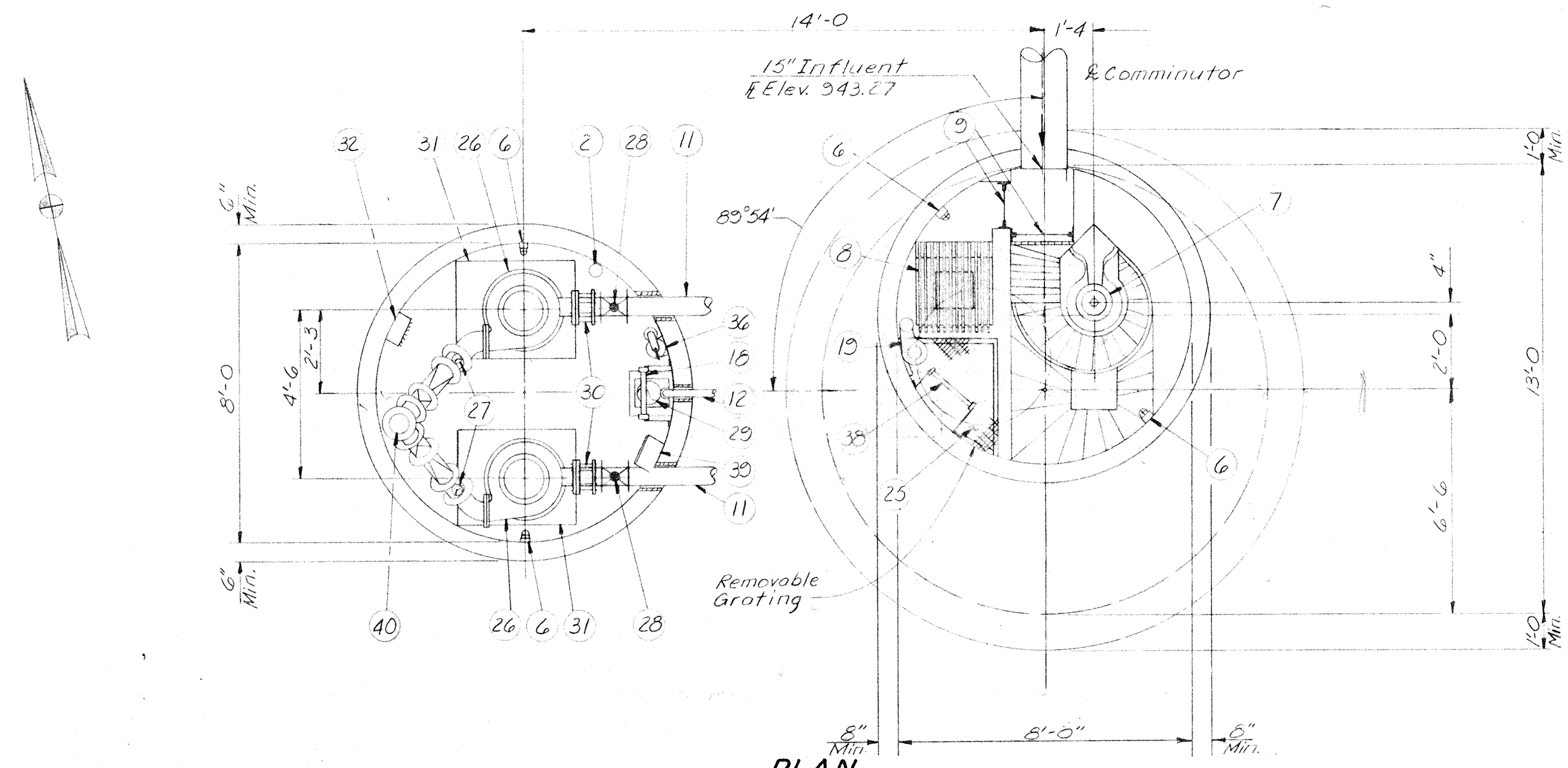
2. Landscaping shall be performed in accordance with specification 5-9 as directed by the Engineer.
 3. The Access Drive and Crushed Aggregate Walk shall be placed in reasonably close conformity to the lines & grades shown on the plans or established by the Engineer. The cost of these items shall be included with the unit price for Pump Station complete and in place.

COMM. No.	PROJECT	STATE
7443	SANDYVILLE	OHIO

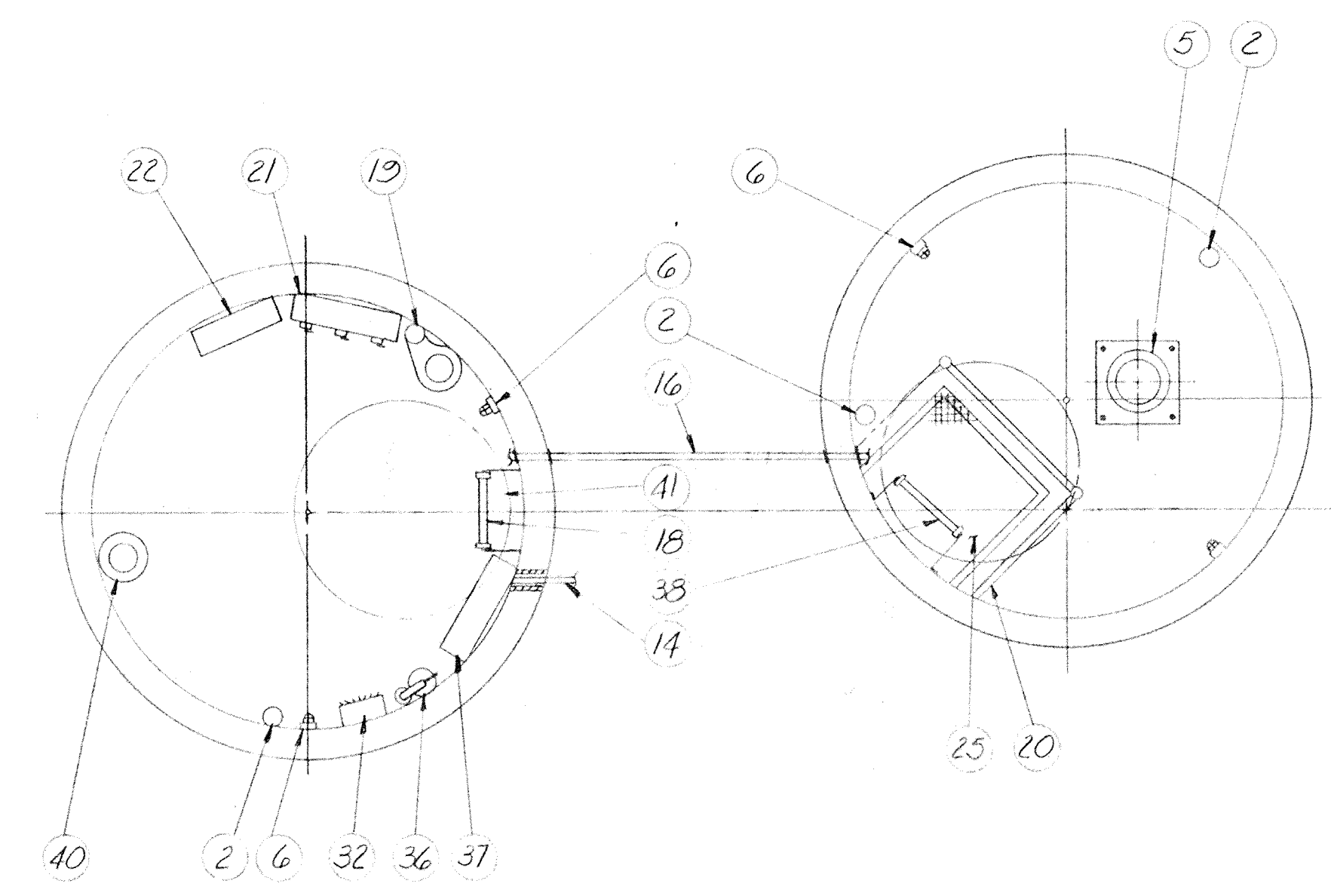
58
69



For Pump Station No. 2 Details,
See Sheet No. 59
 For Fence Detail,
See Sheet No. 60
 For 15" Gravity Line,
See Sheet No. 6
 For 8" Force Main,
See Sheet No. 9



PLAN
(PUMP CHAMBER AND COMMINUTOR CHAMBER)



PLAN
(CONTROL CHAMBER AND MOTOR CHAMBER)

FOUNDATION DETAIL NOTES

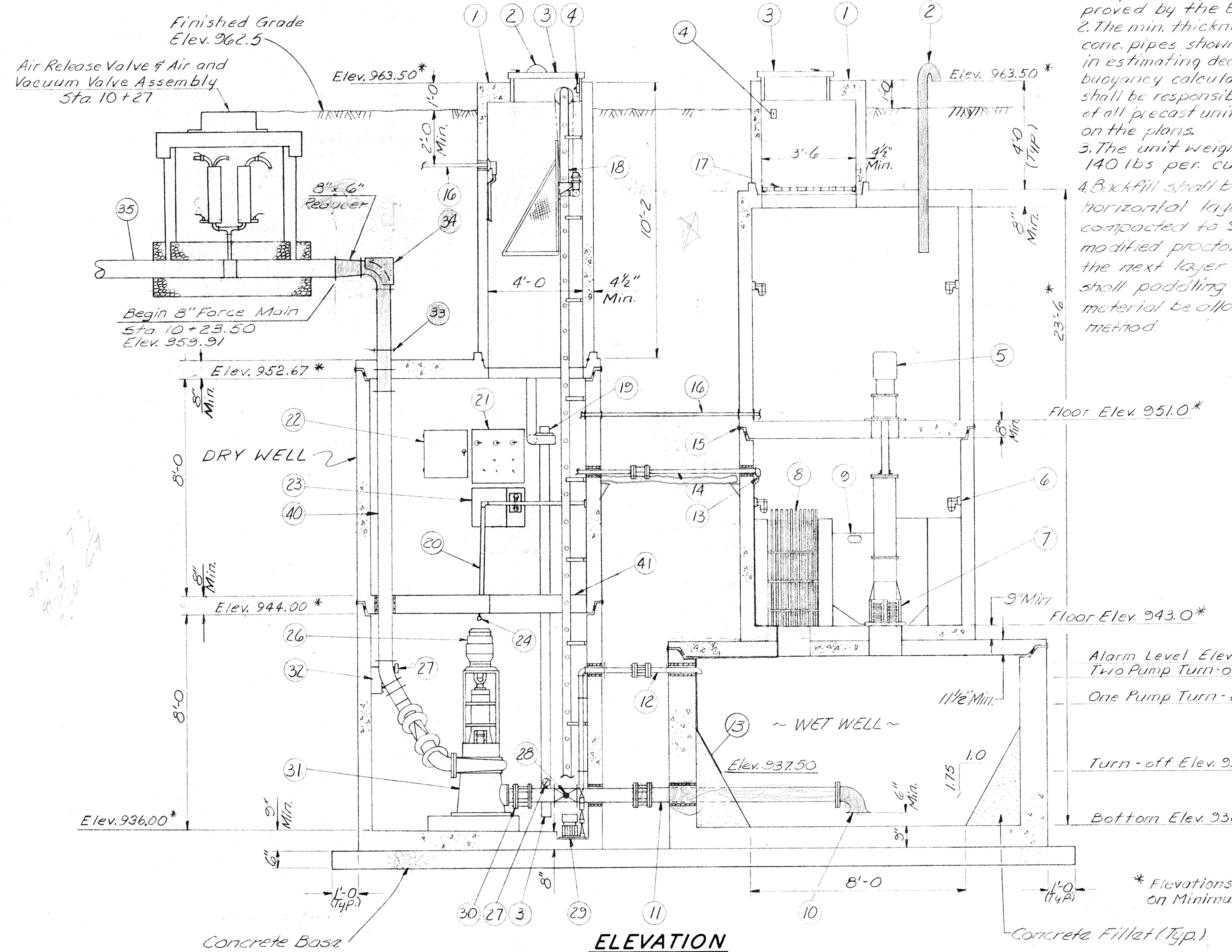
1. The Dry & Wet Well have been checked against flotation for the joint arrangement shown on the plans. Any other arrangement shall be approved by the Engineer.
2. The min. thickness of walls & slabs of precast conc. pipes shown on the plans have been used in estimating dead weight of structures for buoyancy calculations. The pipe manufacturer shall be responsible for the structural integrity of all precast units, for the arrangement shown on the plans.
3. The unit weight of soil shall be taken as 140 lbs per cubic ft.
4. Backfill shall be placed in successive horizontal layers, with each layer being compacted to 90% of the maximum modified proctor dry unit weight before the next layer is added. In no instance shall puddling or jetting of the backfill material be allowed as a compaction method.

PUMP STATION INCIDENTALS

No.	Description	No.	Description
1	Entrance Tube	21	Main Control Panel
2	PVC Vent Pipe w/ Bird Screen	22	Automatic Transfer Panel
3	Entrance Hatch	23	Monitoring Equipment
4	Light & Vent Fan Switch (Explosion Proof)	24	Eye Bolt (for pump removal)
5	Comminutor Motor (Explosion Proof)	25	28" x 30" Clear Opening w/ Removable Aluminum Grating
6	Light Fixture (Explosion Proof)	26	Pump Motor
7	Comminutor & Drive Shaft Assembly	27	Gauges
8	Bar Screen	28	6" Plug Valve
9	Aluminum Step Gates	29	Sump Pump
10	6" x 30" Flared & Flanged	30	Flexible Couplings (To match pipe size)
11	6" Suction Line	31	Sewage Pump
12	1 1/4" Sump Pump Discharge Line	32	Heater
13	1/4" Bubbler Line	33	6" Flanged x Plain End Wall Pipe
14	1 1/4" Conduit	34	Reaction Backing (SD-100)
15	Water Tight Joint Seal (Typical)	35	8" Force Main
16	Electrical Conduit	36	Fire Extinguisher
17	Rest Platform (Elev. 959.5)	37	Pneumatic Control Panel
18	Motor Operated Manlift	38	Aluminum Ladder with Safety Chain
19	Exhaust Fan (Explosion Proof)	39	Dehumidifier
20	Hand Rail w/ Safety Chain	40	6" Discharge Piping (See Detail, Sheet No. 60)
		41	48" Clear Opening for Manlift

PUMP STATION NOTES

1. All joints shall be sealed watertight and shall be done under the supervision of the pump station manufacturer and Engineer.
2. Apply two brush coats of bituminous waterproofing below grade.
3. Service Entrances required for water, monitoring and electrical connections shall be located at time of construction by the Contractor. All materials required to do this work shall be included in unit price bid for Pump Station #2.
4. All piping, fittings and adapters after Flange & Plain End Wall Pipe shall be considered as Force Main and shall be paid for with the unit price bid per linear foot of 8" Force Main.
5. Where wall pipe is shown, void spaces between wall pipe and wall shall be filled with non-shrinking grout in a waterproof manner.
6. All vertical piping located along the inside walls including ventilation, electrical conduit, sump pump lines etc. shall be sufficiently anchored to the wall.
7. Suitable flexible couplings shall be used on all pipe and conduit connections made between Wet well and Dry Well.



ELEVATION

* Elevations & Dimensions based on Minimum Thicknesses

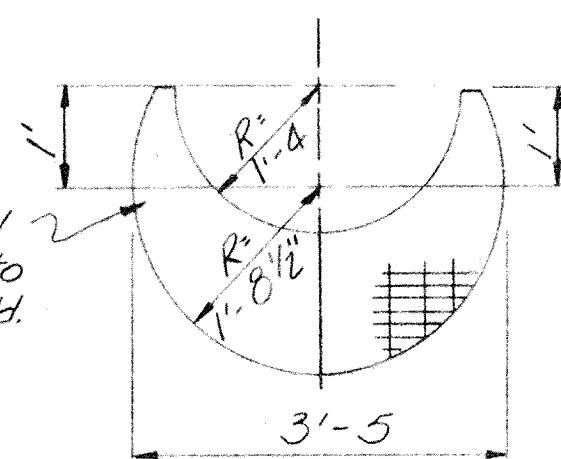
(NO SCALE)

For 15" Gravity Sewer, See Sheet No. 6
 For Force Main, See Sheet No. 9
 For Site Plan, See Sheet No. 58
 For Base Details, See Sheet No. 65
 For Discharge Piping Schematic, See Sheet No. 60
 For Rest Platform Detail, See Sheet No. 60

NOTE: Entrance tube rest platforms to be fabricated from alum. grating in accordance with the dimensions shown. Bearing bar spacing shall be 1 3/16" 9c with cross bars spaced at 4" 9c. Bearing bars shall be 1" x 3/16" in size.

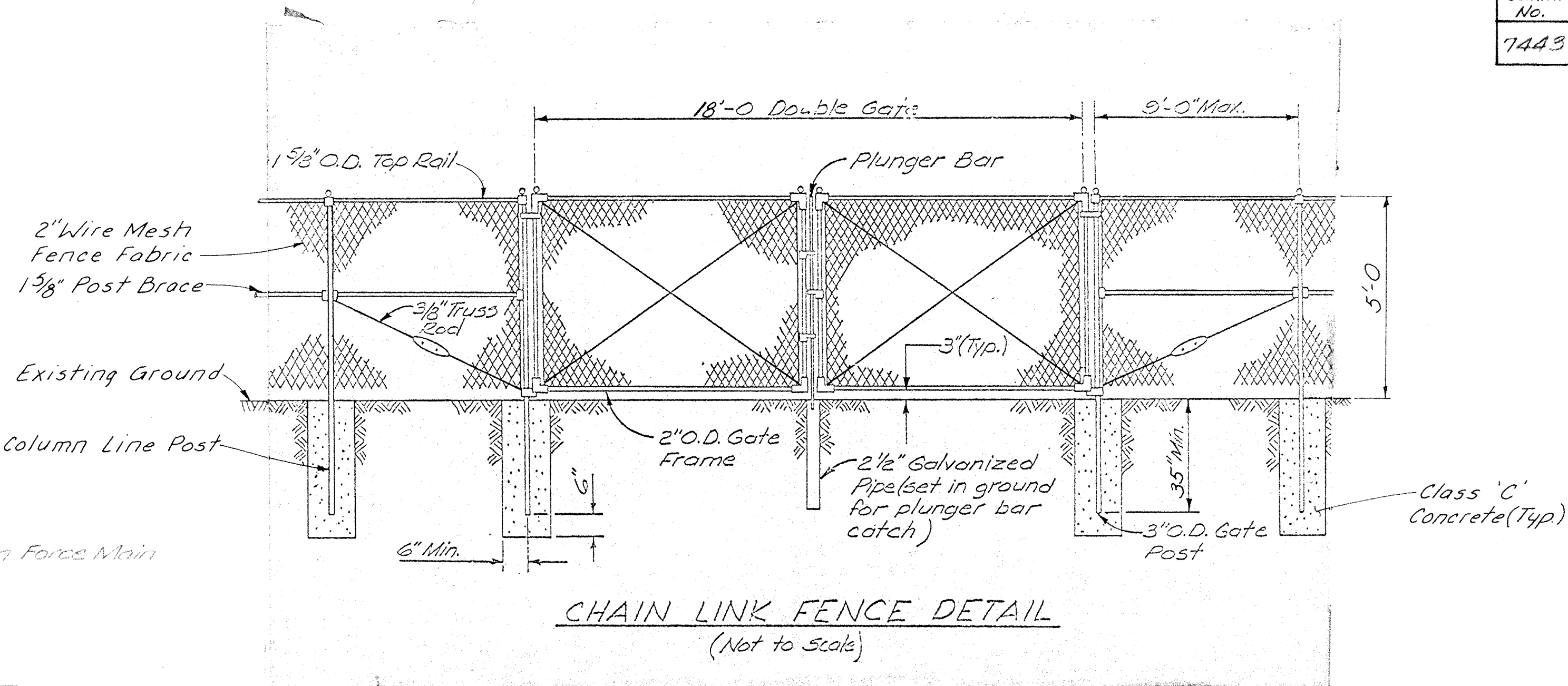
The grating shall rest on a 1 1/2" x 1 1/2" x 3/16" cold rolled steel angle formed to fit the interior wall of the entrance tube and securely bolted to the wall at the elevations shown.

The aluminum in contact with the angle on tube wall shall be coated with two coats of bitumastic.

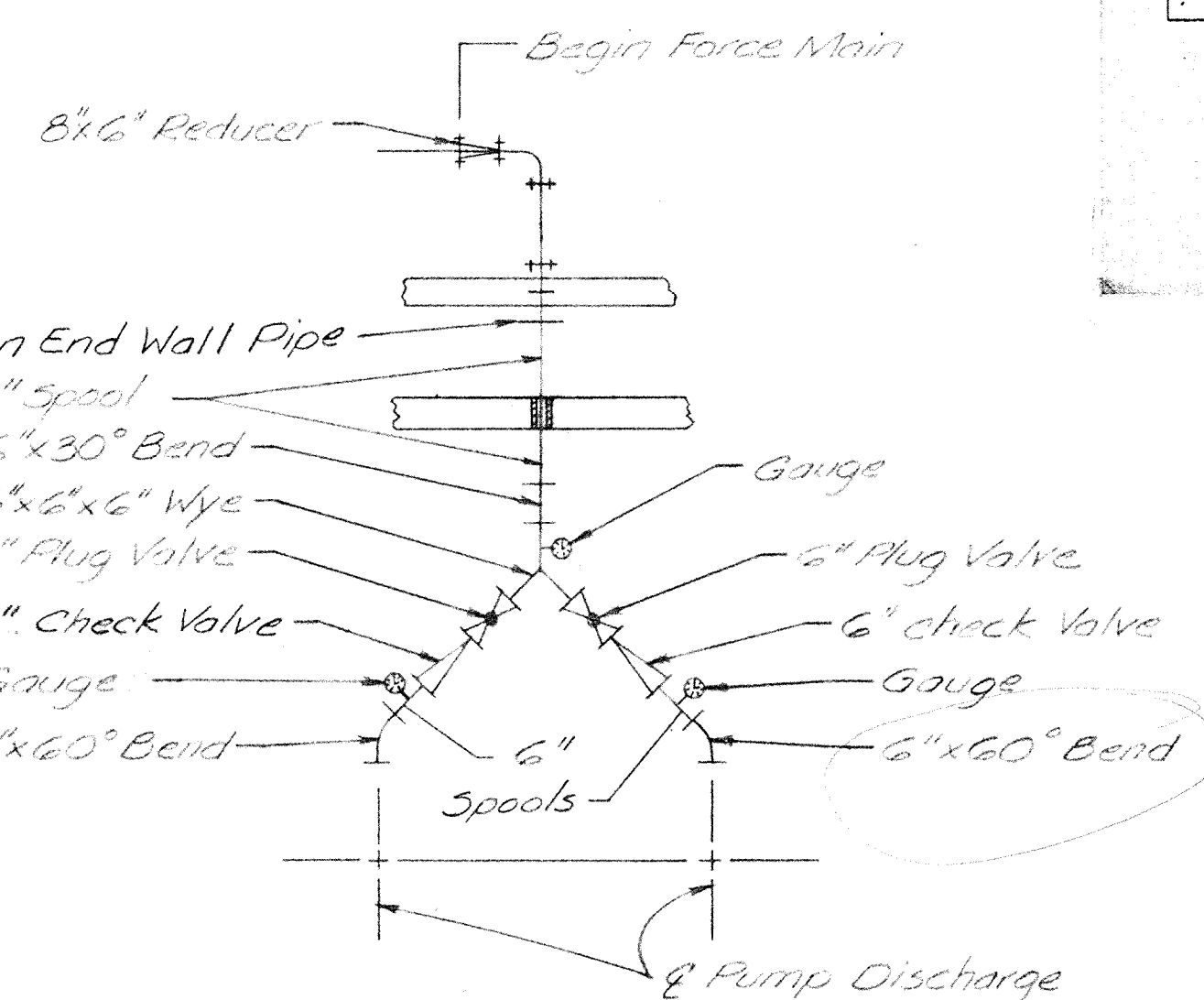


REST PLATFORM
No Scale

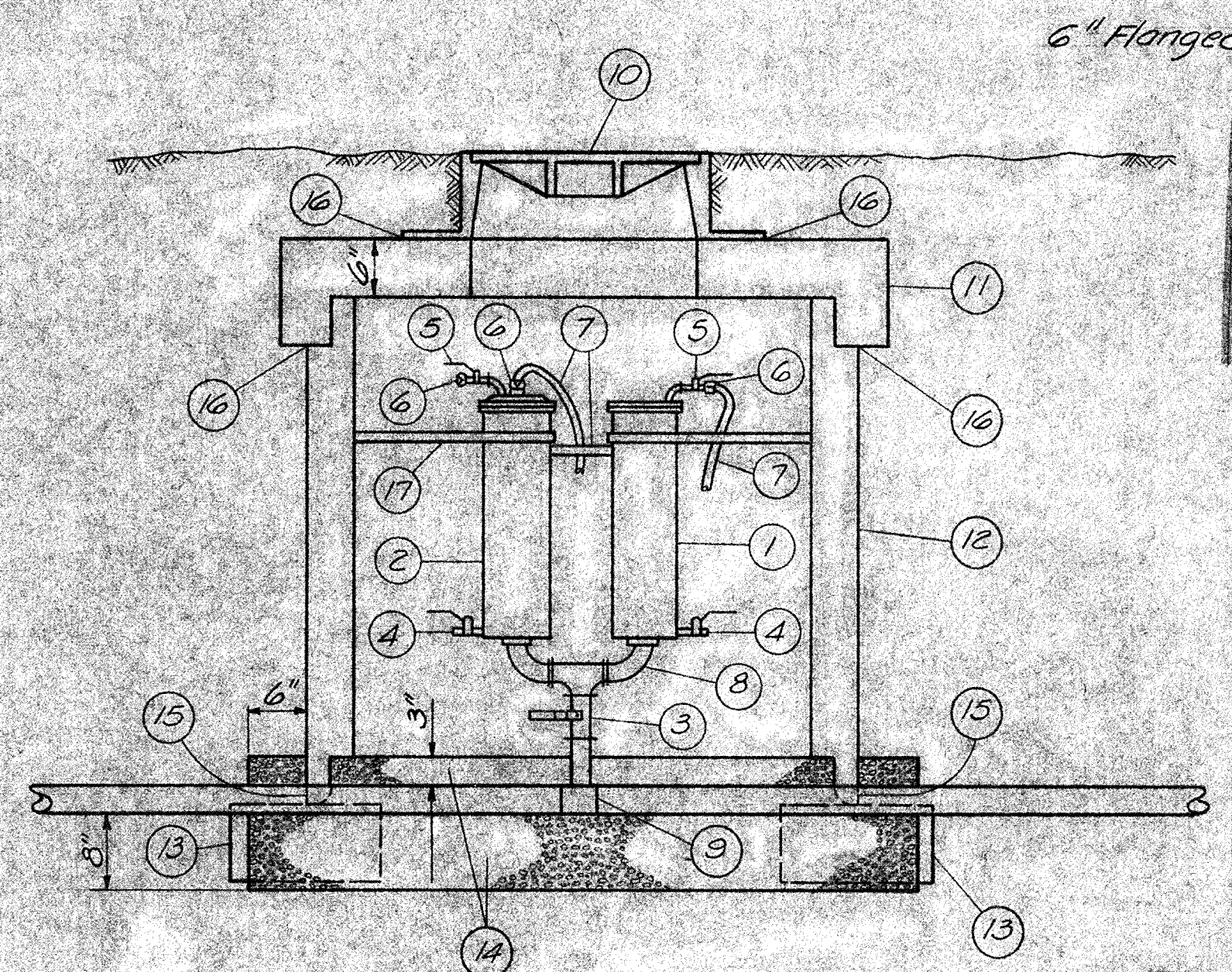
Aluminum grating (Care shall be taken during fabrication to permit the passage of the req'd. conduit.)



Note:
Padlock for gates to be supplied by the Contractor and keys turned over to the Owner upon completion of the Pump Station. A duplicate key shall be supplied and turned over to the adjacent property Owner for the lock on the Access Drive Gate.



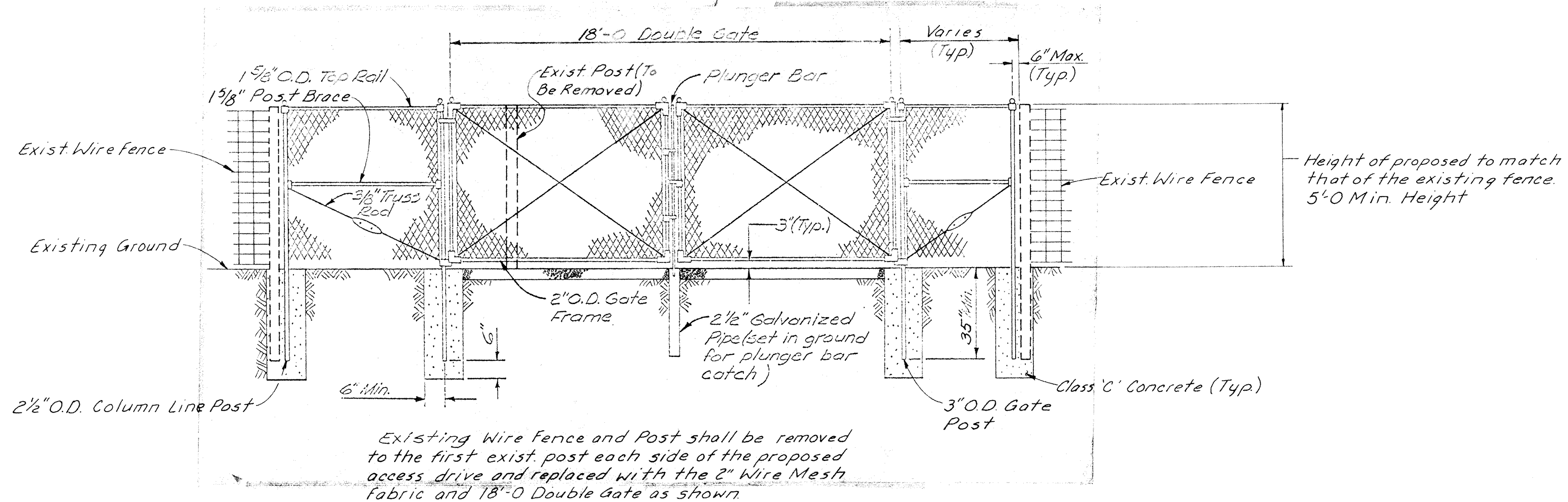
DISCHARGE PIPING SCHEMATIC
(No Scale)



For Plan Sheet, See Sheet No. 3
AIR RELEASE VALVE AND AIR AND VACUUM VALVE ASSEMBLY DETAIL
(NOT TO SCALE)

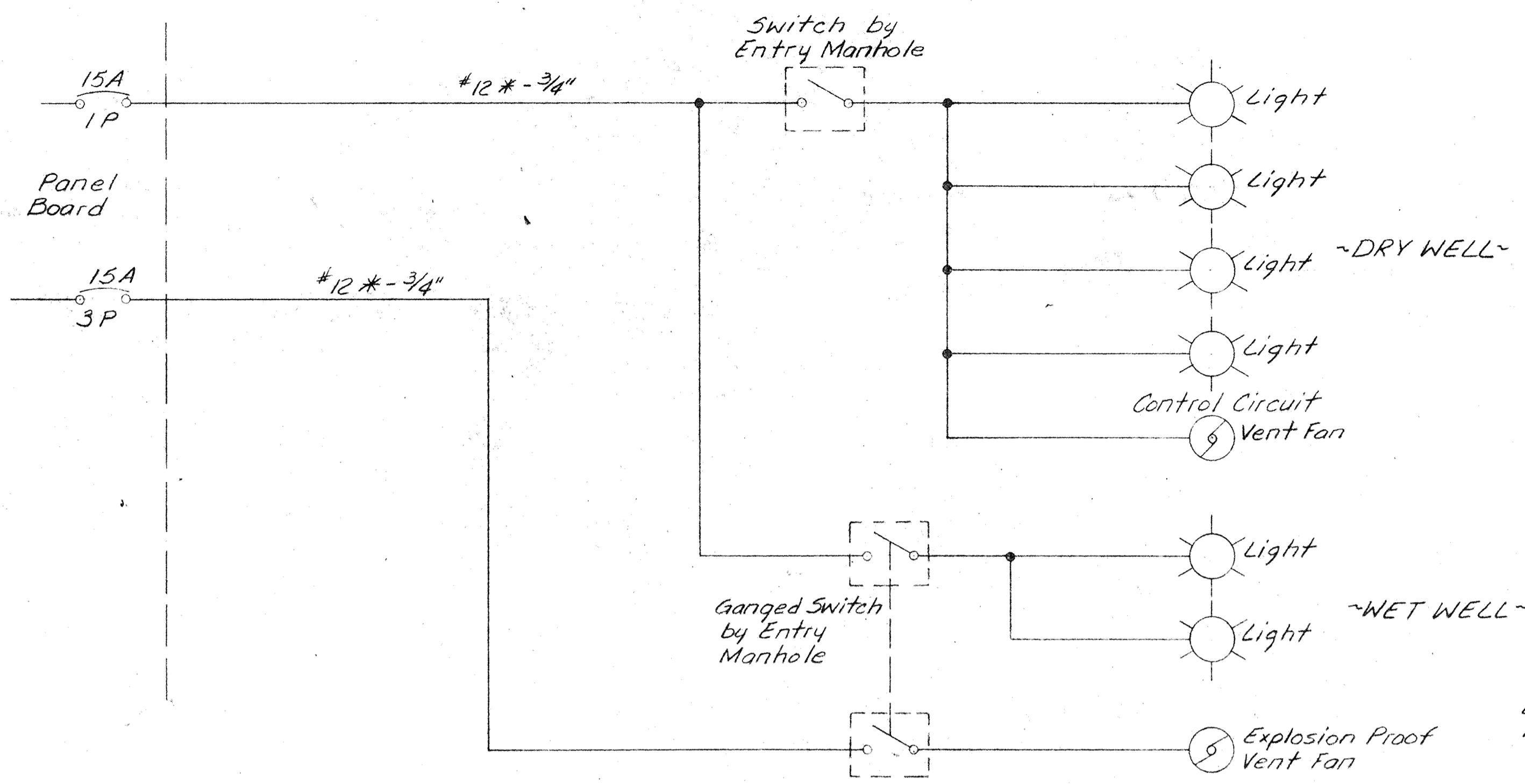
- 1 Sewage Air & Air and Vacuum Valves
- 2 Sewage Air Release Valve
- 3 2" Ball Valve
- 4 1" Ball Valve
- 5 1/2" Ball Valve
- 6 Quick Disconnect Coupling
- 7 Back Flushing Hose
- 8 2" Threaded Galvanized Pipe
- 9 Twin Seal Tapping Saddle
- 10 Manhole Frame & Cover: Neenah B-1785 Solid Lid or East Jordan Iron Works Inc. 1450-Type A' Solid Cover
- 11 Flat Top Slab ~ (ASTM-C478)
- 12 48" Manhole Riser ~ (ASTM-C478)
- 13 8" x 8" x 16" Concrete Block ~ (4 Required)
- 14 Aggregate
- 15 Opening to Span 8" Force Main
- 16 All Joints are Mortar Sealed with "O" Ring Rubber Gasket
- 17 1" Metal Straps

Strapping to be provided in such a manner as to allow for minimal movement of the valves. Straps shall be sufficiently anchored to the manhole section wall.

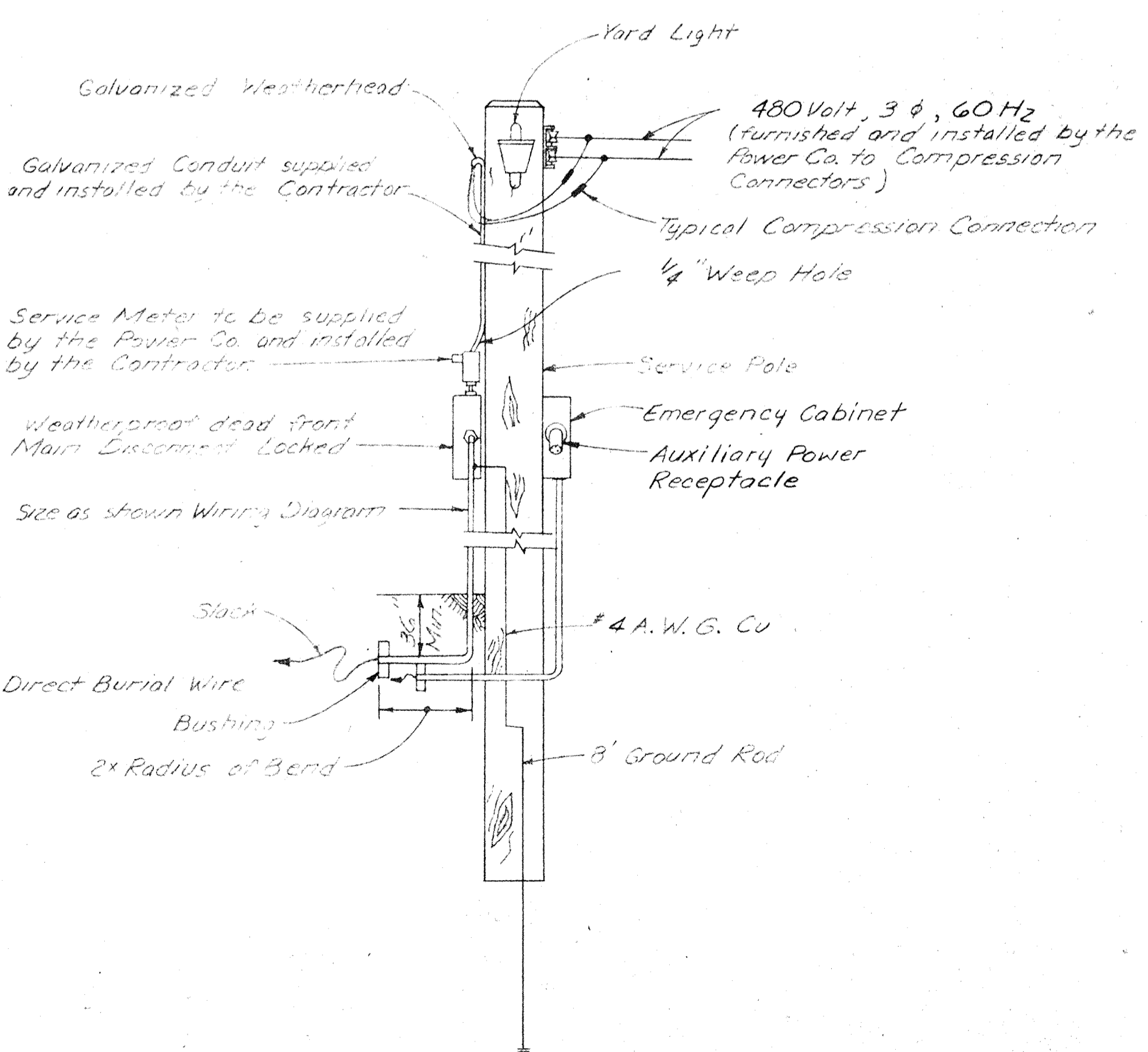


Existing Wire Fence and Post shall be removed to the first exist. post each side of the proposed access drive and replaced with the 2" Wire Mesh fabric and 18'-0 Double Gate as shown.

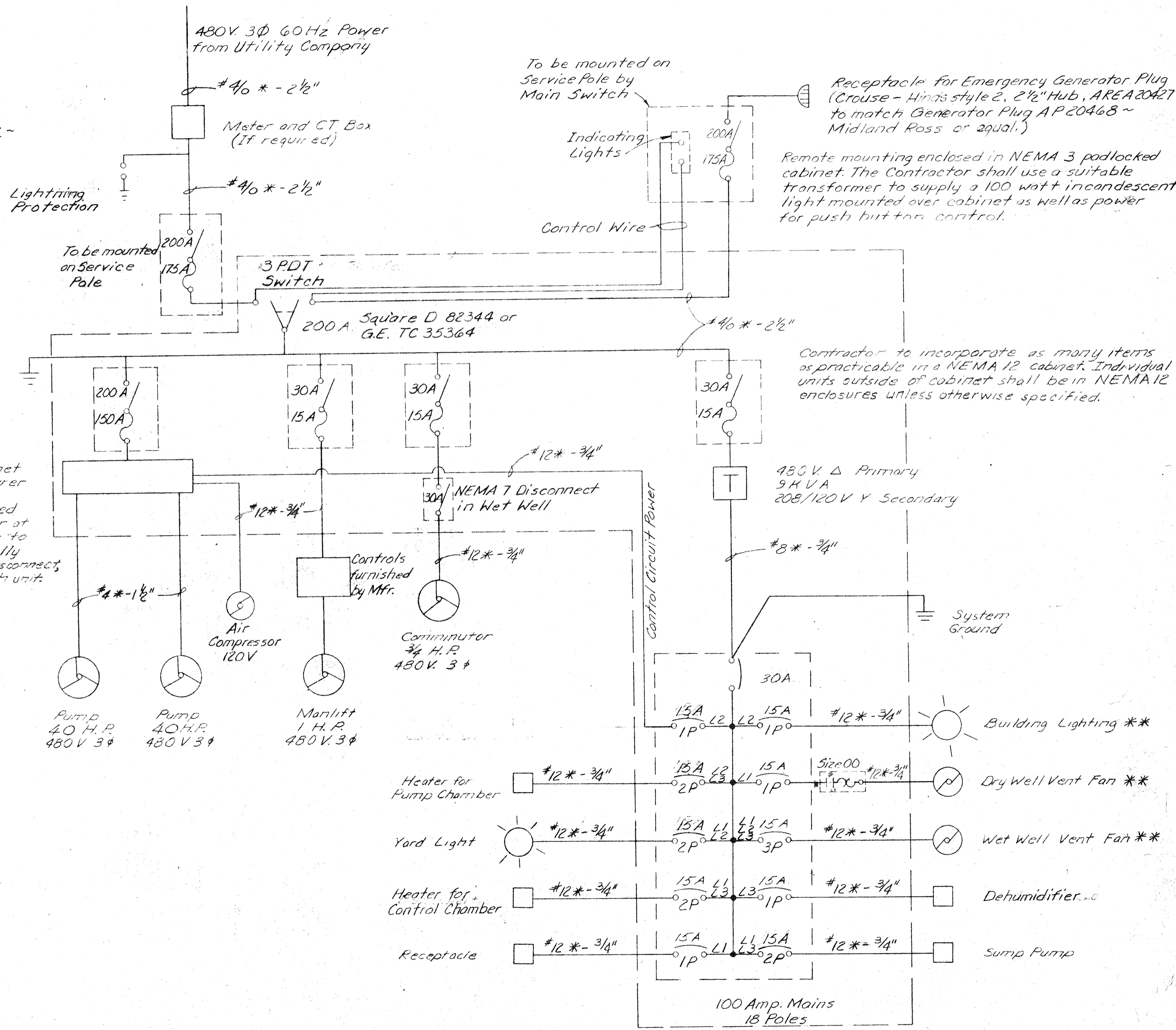
ACCESS DRIVE GATE DETAIL
(Not to Scale)



DETAIL 'A'



POWER SERVICE DETAIL



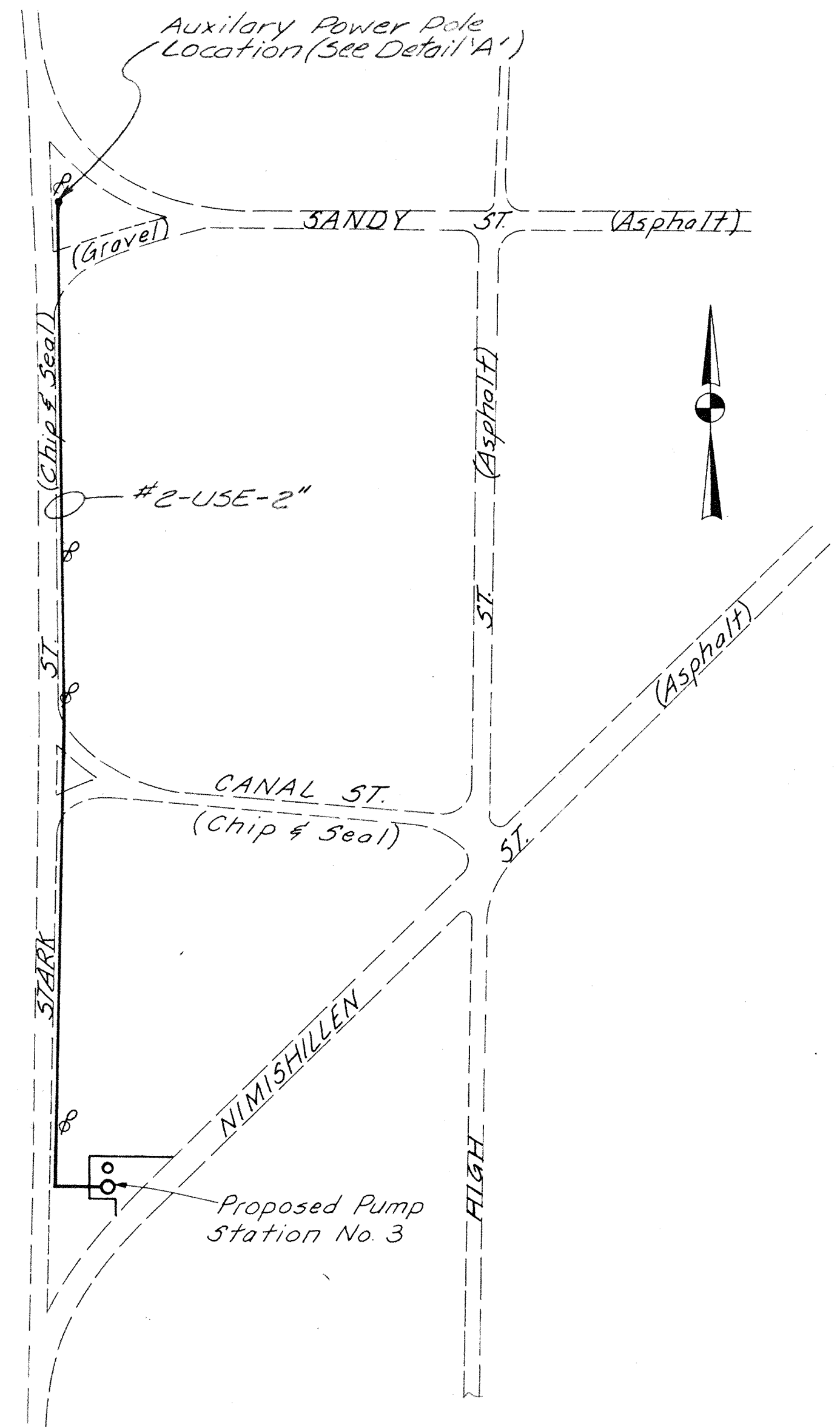
* THHN wire may be used for all interior wiring within a control cabinet or within conduit in the Wet Well or Dry Well. Whenever wire is run underground type USE, or UF shall be used in accordance with N.E.C. requirements.

** See Detail 'A' (This Sheet)

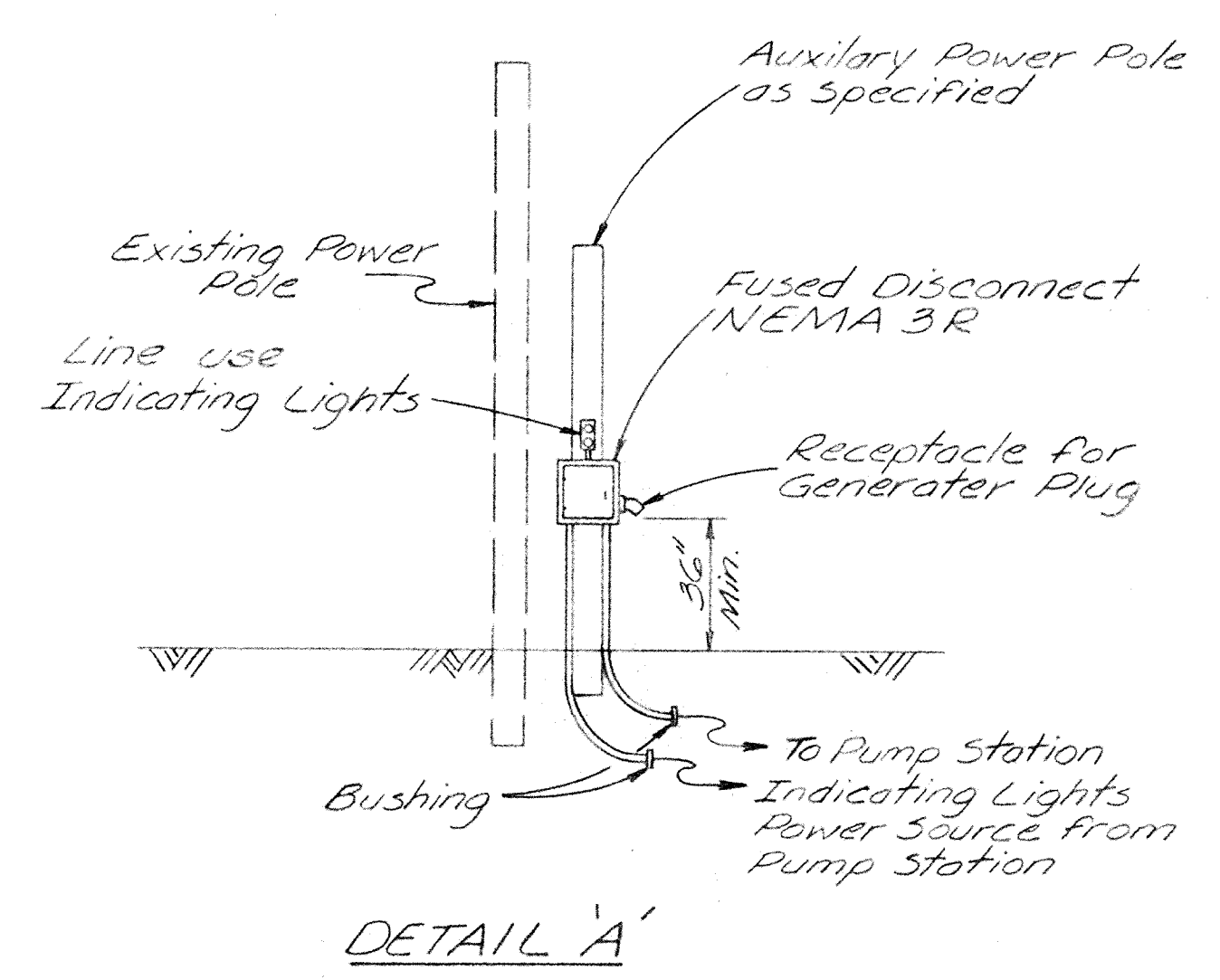
For General Notes and Misc. Details, See Sheet No. 66

NOTES

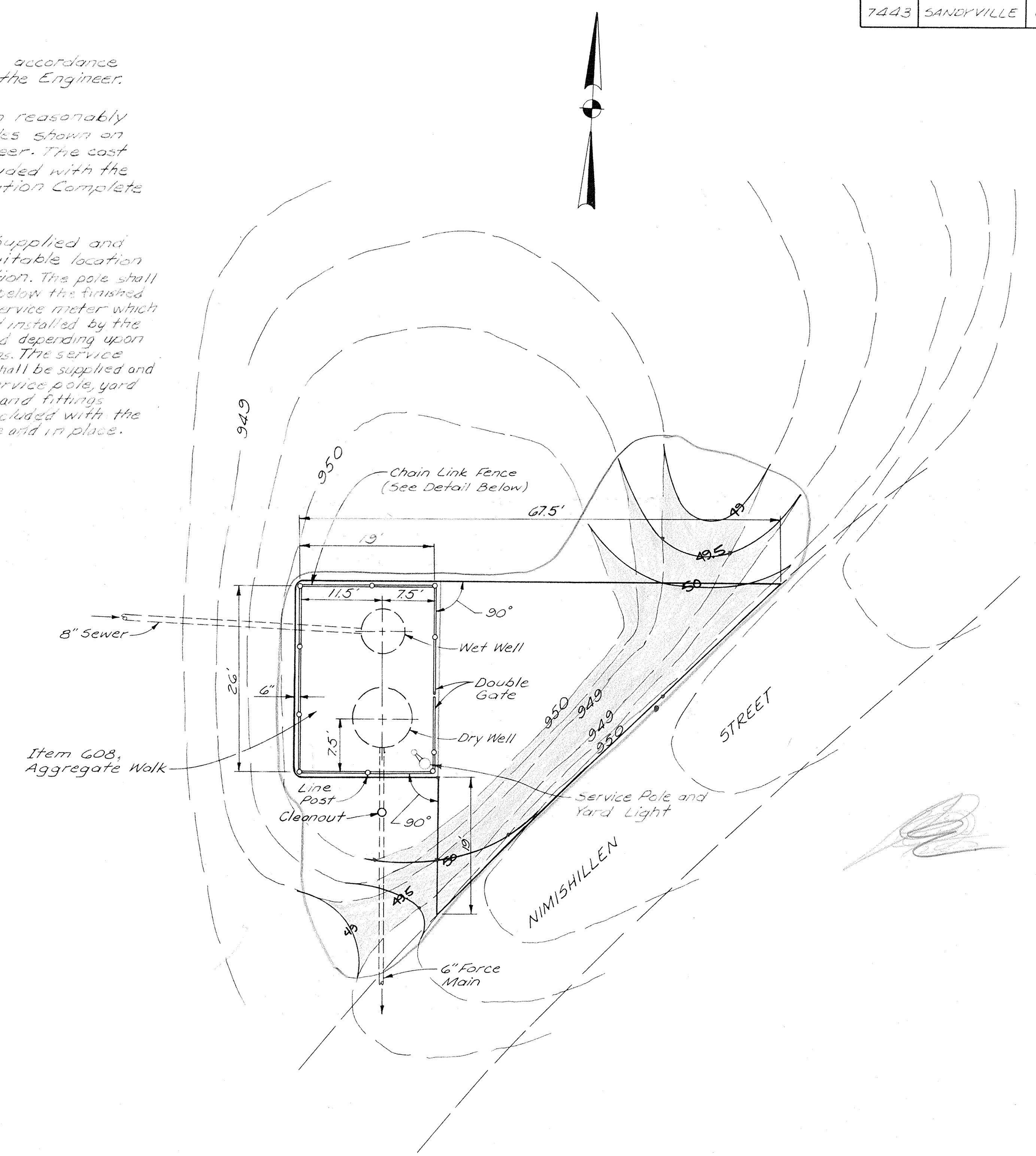
1. Landscaping shall be performed in accordance with specification 5-3 as directed by the Engineer.
2. The Access Pullover shall be placed in reasonably close conformity to the lines and grades shown on the plans or established by the engineer. The cost of the access pullover shall be included with the Lump Sum price for the Pump Station Complete and in Place.
3. An electrical service pole shall be supplied and erected by the Contractor in a suitable location determined at the time of construction. This pole shall be set to a minimum depth of five (5) feet below the finished grade elevation. It shall support a grounded service meter which will be furnished by the Power Company and installed by the Contractor. An anchor and guy may be required depending upon length of service drop and/or soil conditions. The service pole shall also support a yard light which shall be supplied and erected by the Contractor. The cost of the service pole, yard light, service meter and all conduit, wiring and fittings necessary to perform this work shall be included with the unit price for Pump Station No 3 complete and in place.



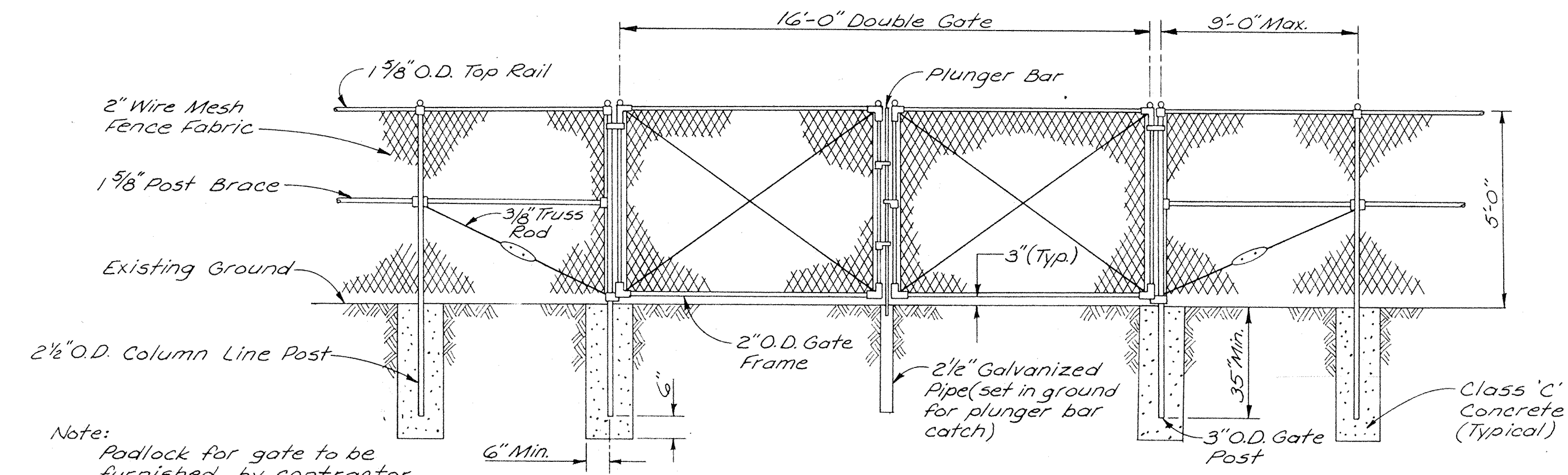
AUXILIARY POWER SUPPLY SCHEMATIC
(No Scale) For Wiring Diagram, See Sheet No. 64



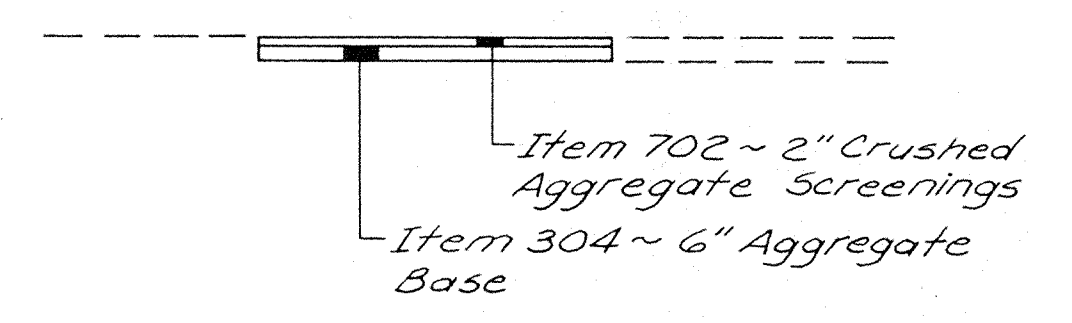
DETAIL A



SITE PLAN
(Scale: 1"=10')



CHAIN LINK FENCE DETAIL
(Not to Scale)



ACCESS PULLOVER TYPICAL SECTION
(Not to Scale)

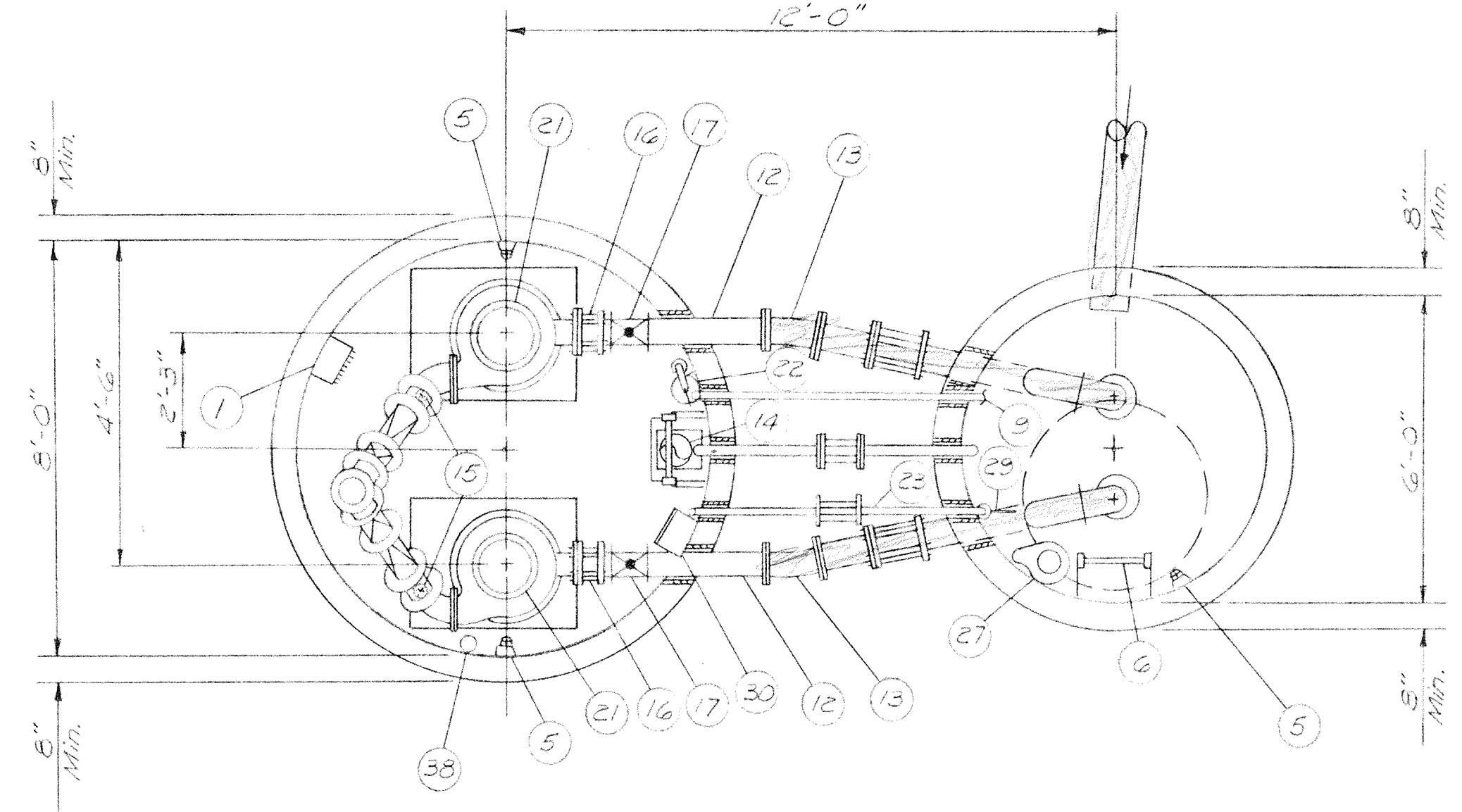
For Pump Station Detail, See Sheet No. 63

DRAWN
E.P.
5-2-77

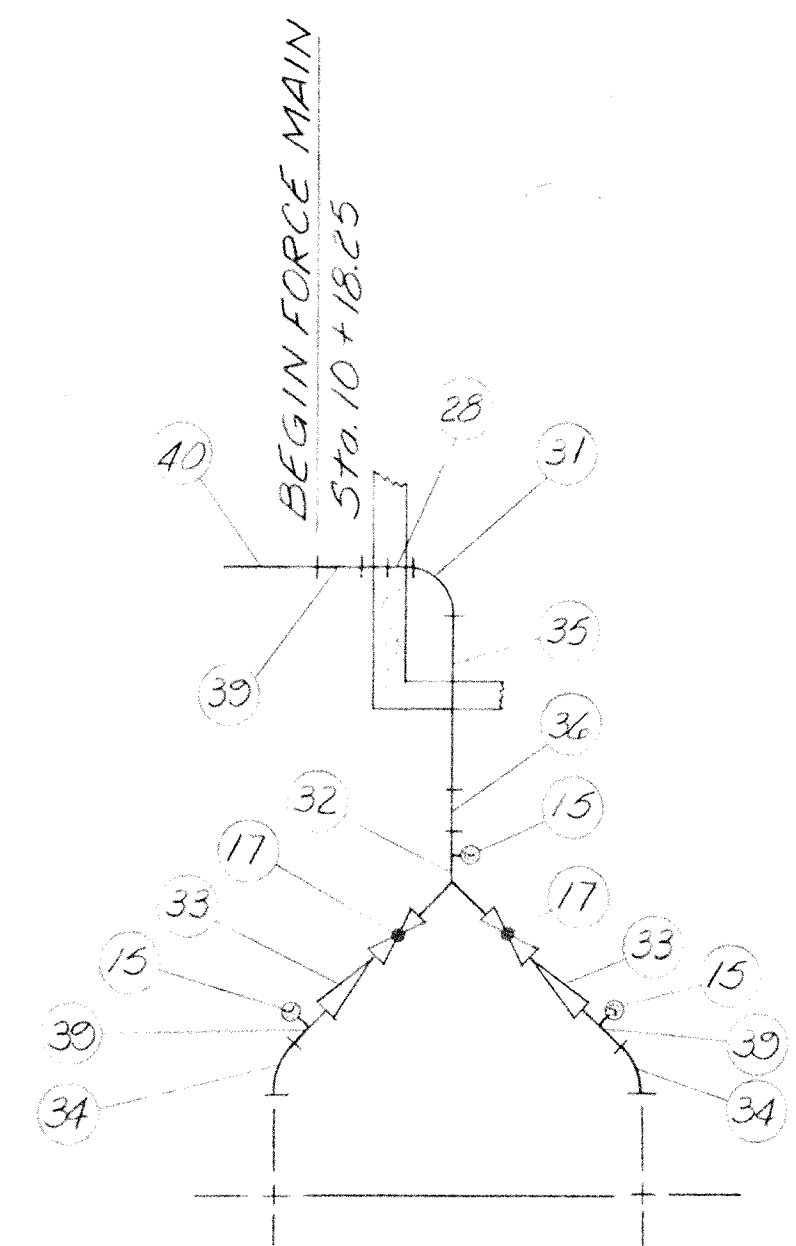
PUMP STATION INCIDENTALS

Ref. No.	Description
1	Heater
2	Light & Vent Fan Switch
3	Access Door (Water Tight)
4	Facing Brick
5	Light Fixture
6	Aluminum Ladder With safety Chain
7	Water Tight Joint Seal
8	Entrance Hatch (Water Tight)
9	Electrical Conduit
10	1 1/2" Sump Pump Discharge Pipe
11	4" x 30° Flanged and Flanged
12	4" Suction Pipe
13	1 1/2" Bend
14	Sump Pump
15	Gauges
16	4" Flexible Coupling
17	4" Plug Valve
18	Sewage Pump
19	48" Circular Opening
20	Hand Rail With Safety Chain
21	Pump Motor
22	Fire Extinguisher
23	1 1/4" Conduit
24	Pneumatic Control
25	Pump Station Monitoring System
26	Main Control System
27	Intake Vent Fan
28	4" Flanged & Plain End Wall Pipe
29	1/4" Bubbler Line
30	Dehumidifier
31	4" x 90° Bend
32	4" x 4" x 4" Wye
33	4" Check Valve
34	4" x 60° Bend
35	4" Spool
36	4" x 30° Bend
37	Motor Operated Manlift
38	PVC Vent Pipe with Bird Screen
39	4" x 6" Reducer
40	6" Force Main
41	Anchor Assembly
42	Automatic Transfer Panel
43	Rest Platform (Elev. 943.00)
44	Galvanized Steel Ladder

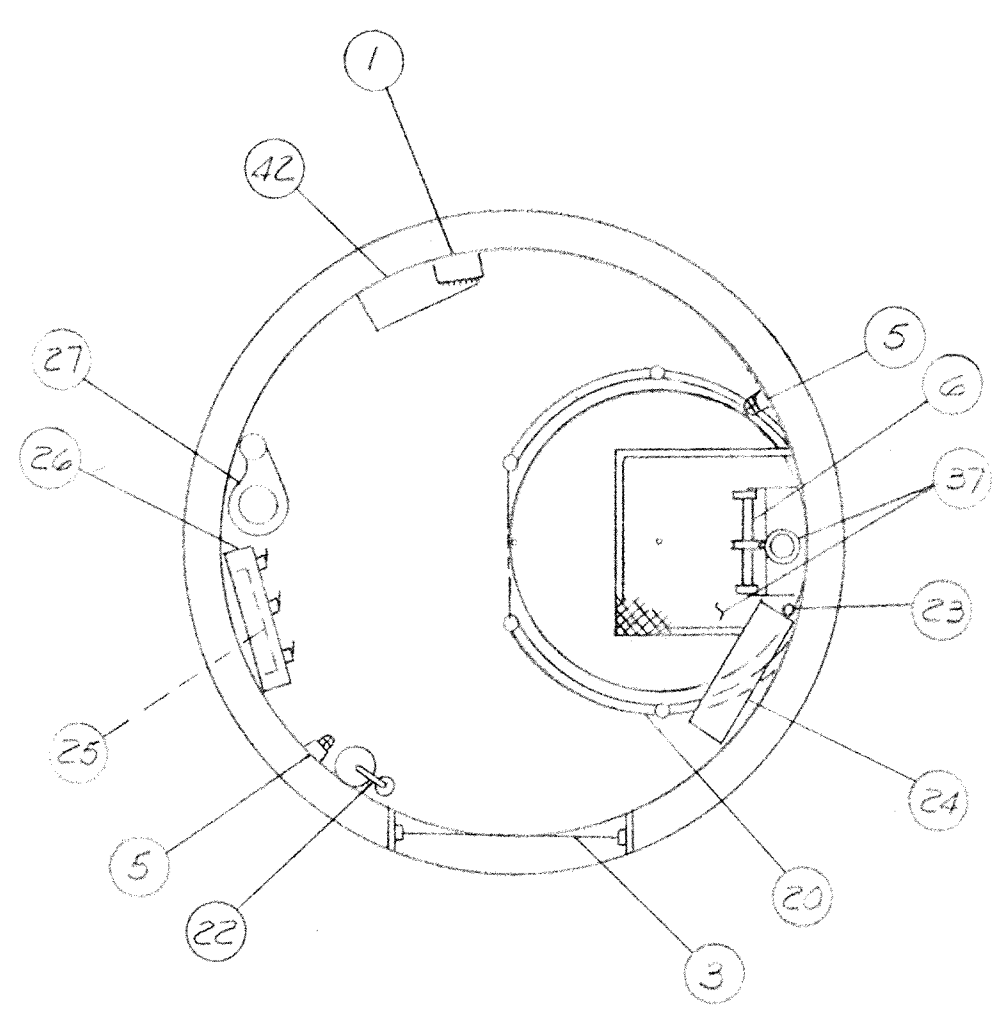
COMM. NO.	PROJECT	STATE
7443	SANDVILLE	OHIO



PLAN
(PUMP CHAMBER AND WET WELL)

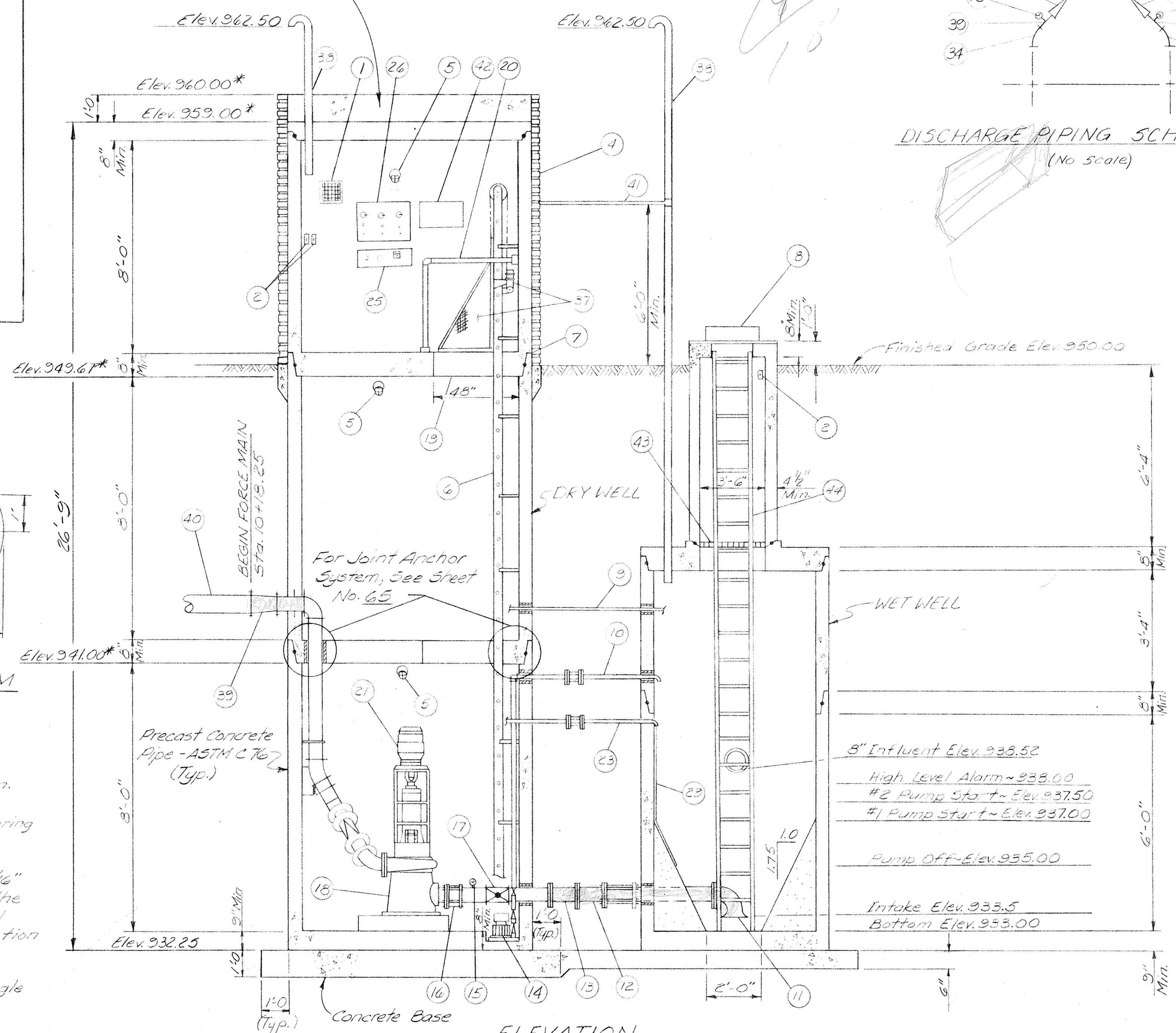


DISCHARGE PIPING SCHEMATIC
(No Scale)



PLAN
(CONTROL CHAMBER)

For Reinforcing Details, See Sheet No. 65



ELEVATION
(No Scale)

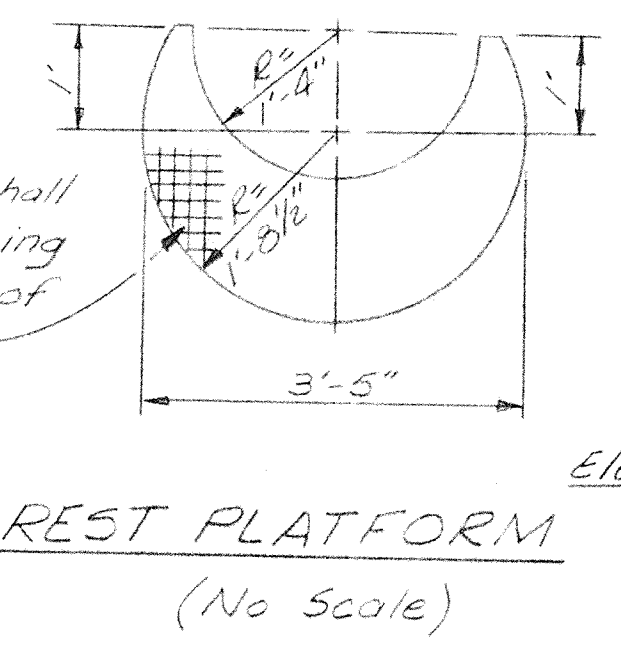
*Elevations & Dimensions Based on Minimum Thicknesses

FOUNDATION DETAIL NOTES

1. Precast concrete pipe with brick facing shall be supplied by the pipe manufacturer with appropriate arrangement for anchoring the brick facing to the pipe.
2. The precast slab @ Elev. 950.00± shall be designed by the pipe manufacturer to support 130 lb per Sq. Ft. loading in addition to its own dead load.
3. The Dry & Wet Well have been checked against flotation for the joint arrangement shown on the plans. Any other arrangement shall be approved by the Engineer.
4. The minimum thickness of walls and slabs of precast concrete pipes shown on the plans have been used in estimating dead weight of structures for buoyancy calculations. The pipe manufacturer shall be responsible for the structural integrity of all precast concrete units, for the arrangement shown on the plans.
5. The unit weight of soil shall be taken as 140 lbs. per Cubic Ft.
6. Backfill shall be placed in successive, horizontal layers, with each layer being compacted to 90% of the Maximum Modified Proctor dry unit weight before the next layer is added. In no instance shall puddling or jetting of the backfill material be allowed as a compaction method.
7. See Detail Specification D5-66 for Control Chamber access door.

PUMP STATION NOTES

1. All joints shall be sealed watertight and shall be done under the supervision of the pump station manufacturer and Engineer.
2. Apply two brush coats of bituminous waterproofing below grade.
3. Service Entrances required for water, monitoring and electrical connections shall be located at time of construction by the Contractor. All materials required to do this work shall be included in unit price for Pump Station #3.
4. All piping, fittings and adapters after Flange & Plain End Wall Pipe shall be considered as Force Main and shall be paid for with the unit price bid per linear foot of 6" Force Main.
5. Where wall pipe is shown, void spaces between wall pipe and wall shall be filled with non-shrinking grout in a waterproof manner.
6. All vertical piping located along the inside walls including ventilation, electrical conduit, sump pump lines, etc. shall be sufficiently anchored to the wall.
7. Suitable flexible couplings shall be used on all pipe and conduit connections made between Wet Well and Dry Well.
8. All conduits into Wet Well shall be sealed so that vapors cannot pass through them.



REST PLATFORM
(No Scale)

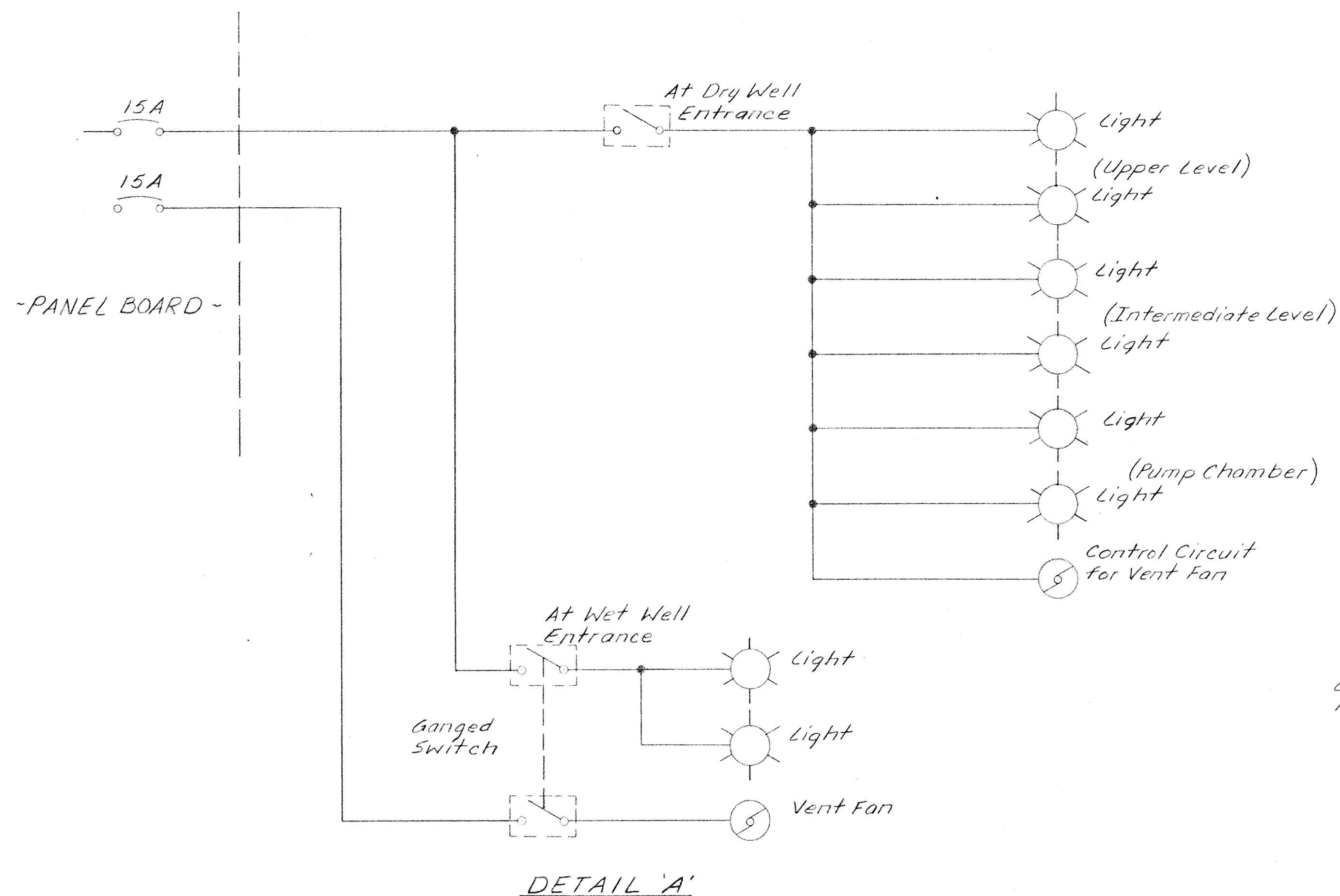
Aluminum grating (Care shall be taken during fabricating to permit the passage of the required conduit)

Note:
Entrance tube rest platforms to be fabricated from aluminum grating in accordance with the dimensions shown. Bearing bar spacing shall be 1 3/16" @c with cross bars spaced at 4" @c. Bearing bars shall be 1" x 3/16" in size.

The grating shall rest on a 1 1/2" x 1 1/2" x 3/16" cold rolled steel angle formed to fit the interior wall of the entrance tube and securely bolted to the wall at the elevation shown.

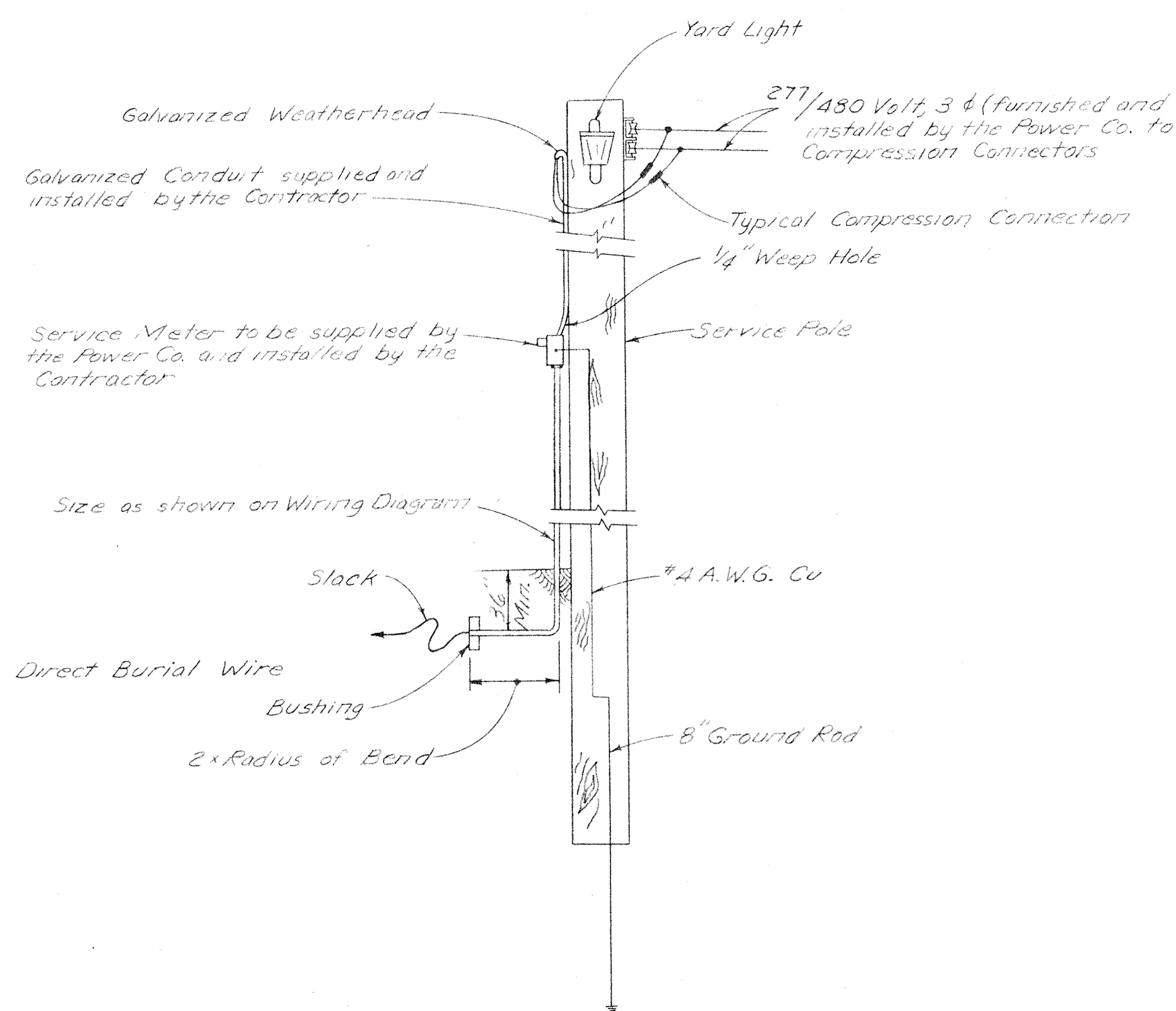
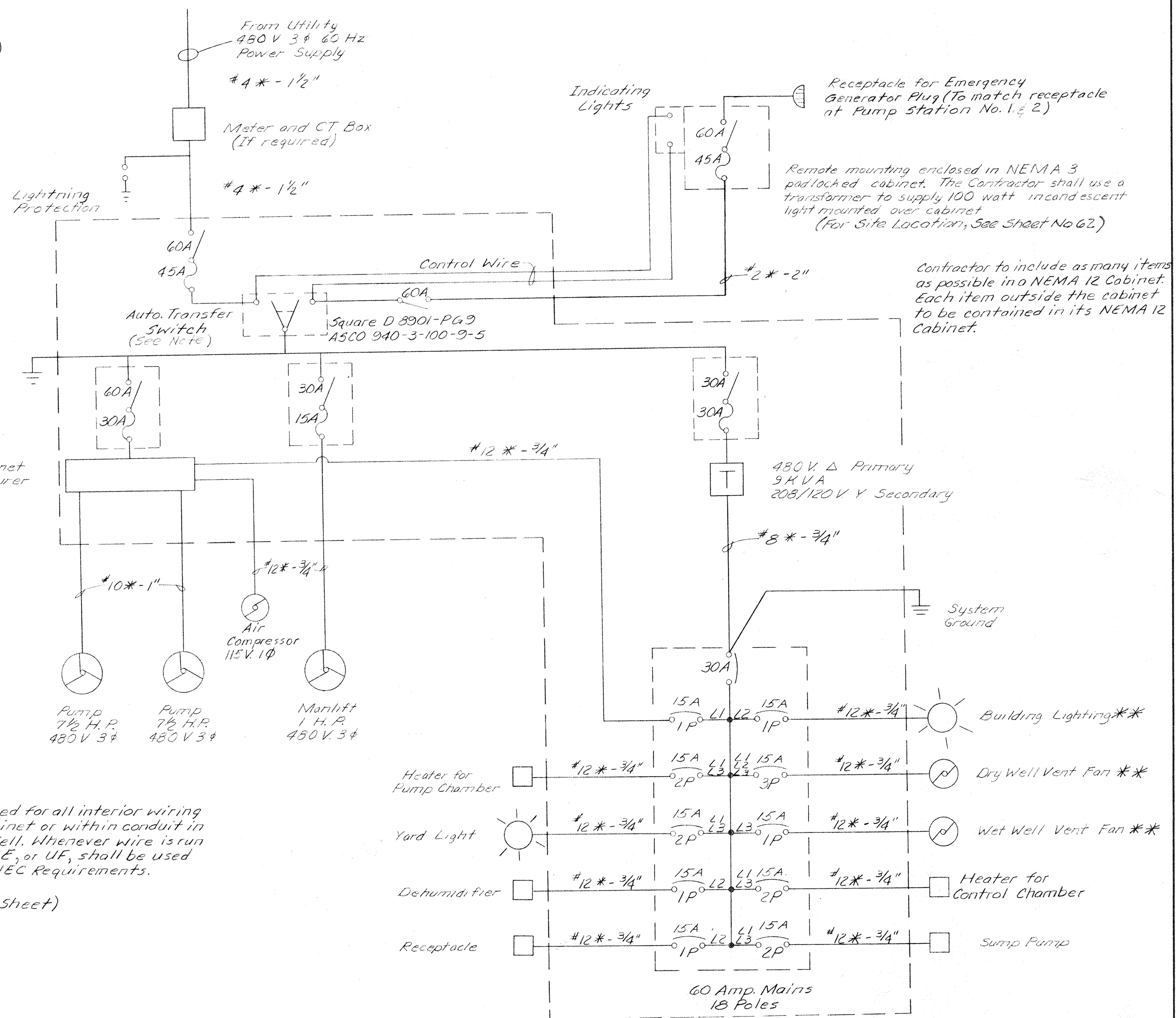
The aluminum in contact with the angle shall be coated with two coats of bitumastic.

For Brick Facing Support Collar Detail, See Sheet 66
For Force Main Details, See Sheet No. 35
For Electrical Details, See Sheet No. 64
For Gravity Line Details, See Sheet No. 39
For Site Plan, See Sheet No. 62
For Concrete Base Details and Anchor System, See Sheet No. 65



Note

Auto. Transfer Switch "locking relay, to prevent transfer from alternate to normal until voltage is stabilized. Pneumatic 3 minute delay. Prevent transfer of load to generator until voltage is at least 90% normal. Interlocks for pilot lights to indicate normal or alternate power source.

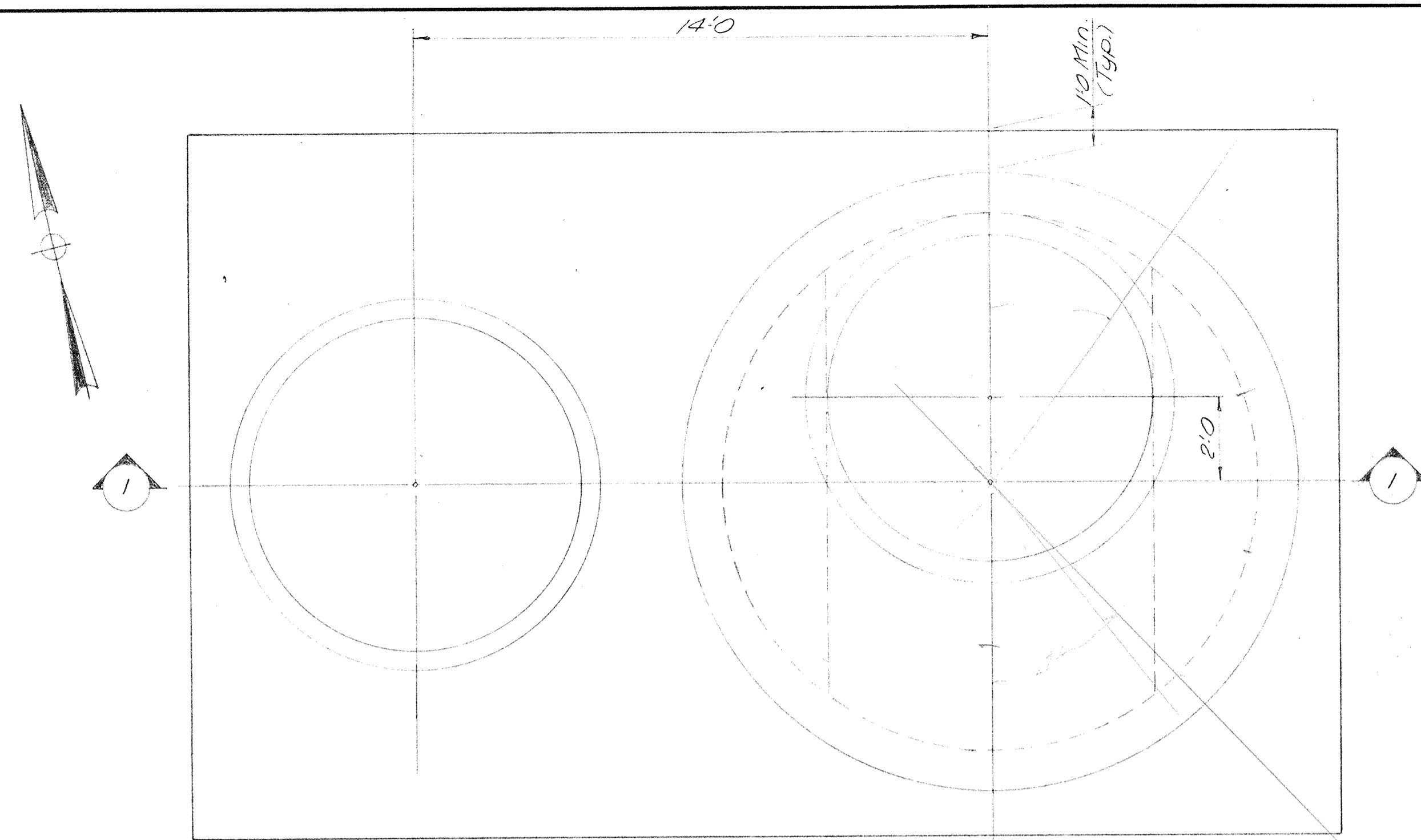


* THHN Wire may be used for all interior wiring within a control cabinet or within conduit in the Dry Well or Wet Well. Whenever wire is run underground Type USE, or UF, shall be used in accordance with NEC Requirements.

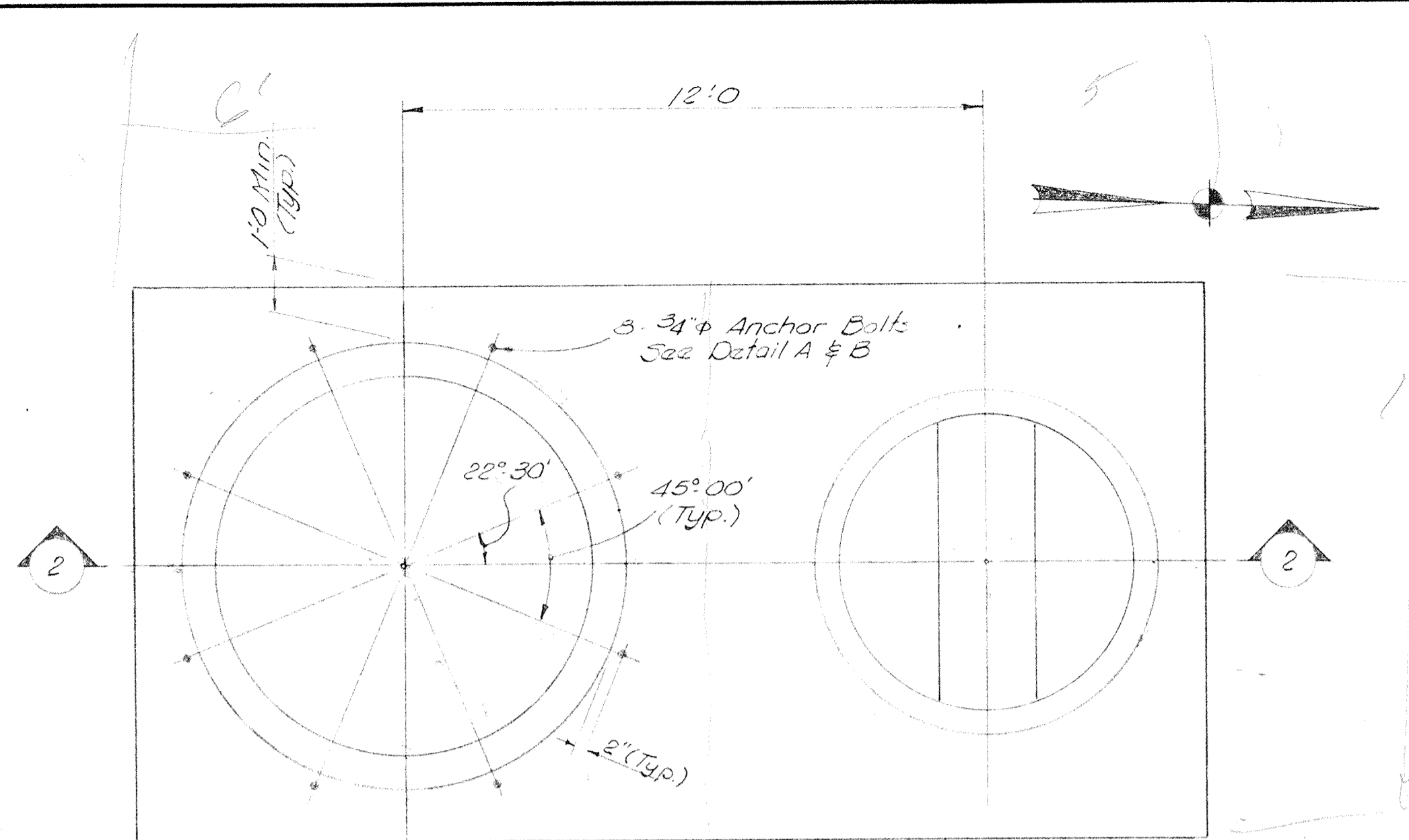
** See Detail 'A' (This Sheet)

All Conduit Entrances And Exits And From Structures To Be Sealed Off To Prevent Water From Entering And Flowing Through Conduit.

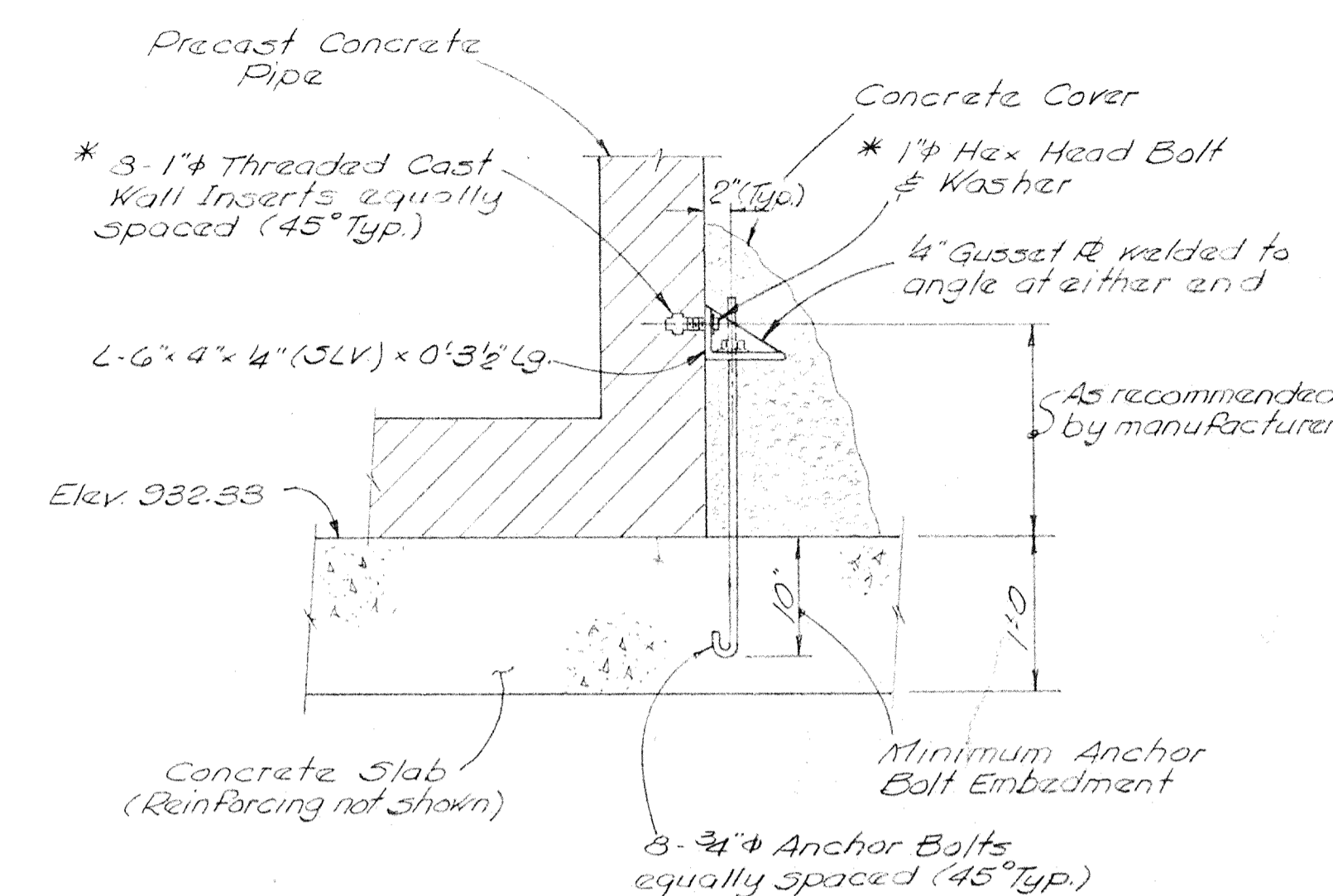
For General Notes and Misc. Details, See Sheet No. 66



PLAN

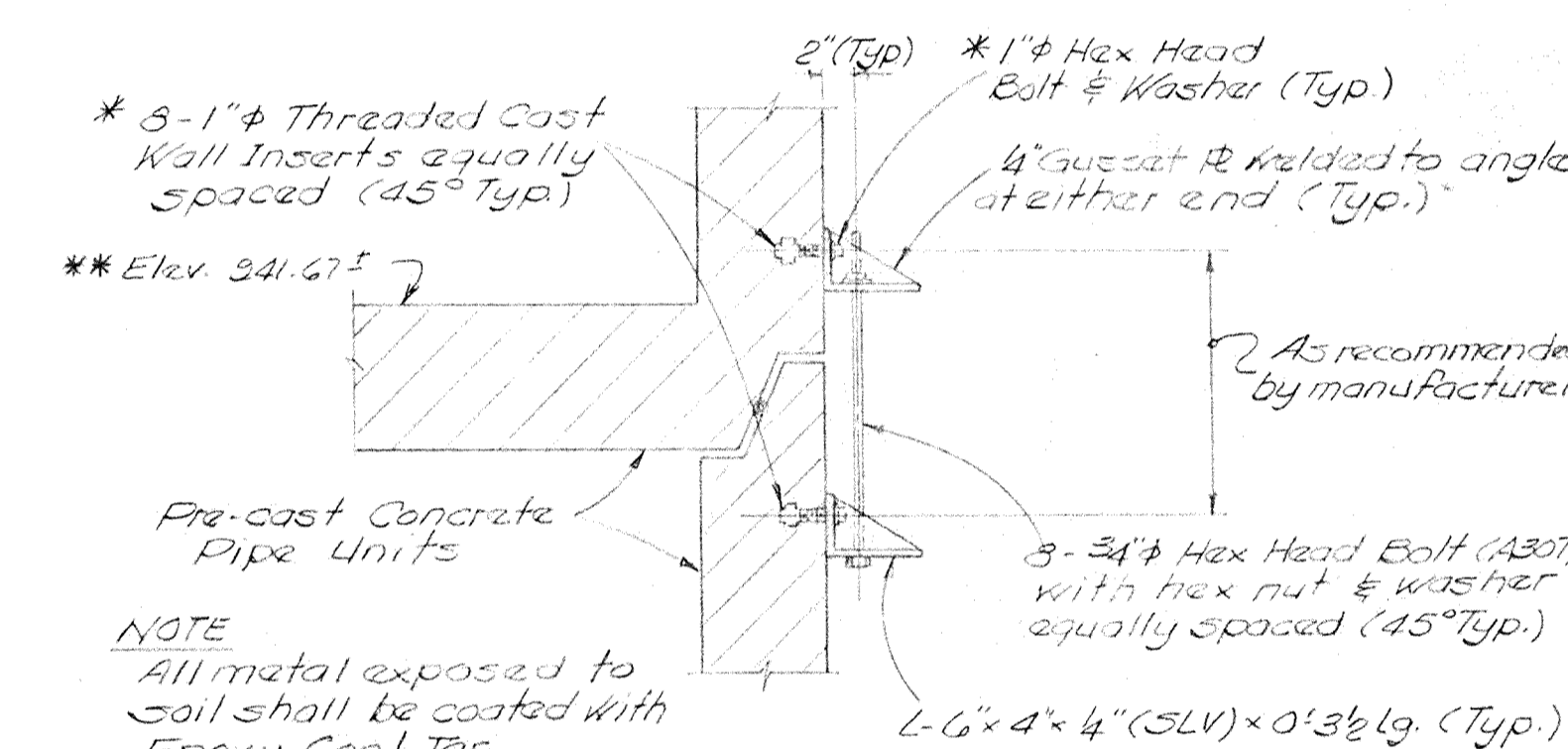


PLAN



DETAIL 'A'
Scale: 1" = 1'-0"

* To be furnished by manufacturer



DETAIL 'B'
Scale: 1" = 1'-0"

NOTES:

During construction Dry Well and Wet Well (Pump Station No. 2 & No. 3) are buoyant until such time when all the anchor systems (if required) are installed and backfilling is completed and compacted up to the finished grade elevation. The area surrounding the Pump Stations must be kept free of water to prevent flotation.

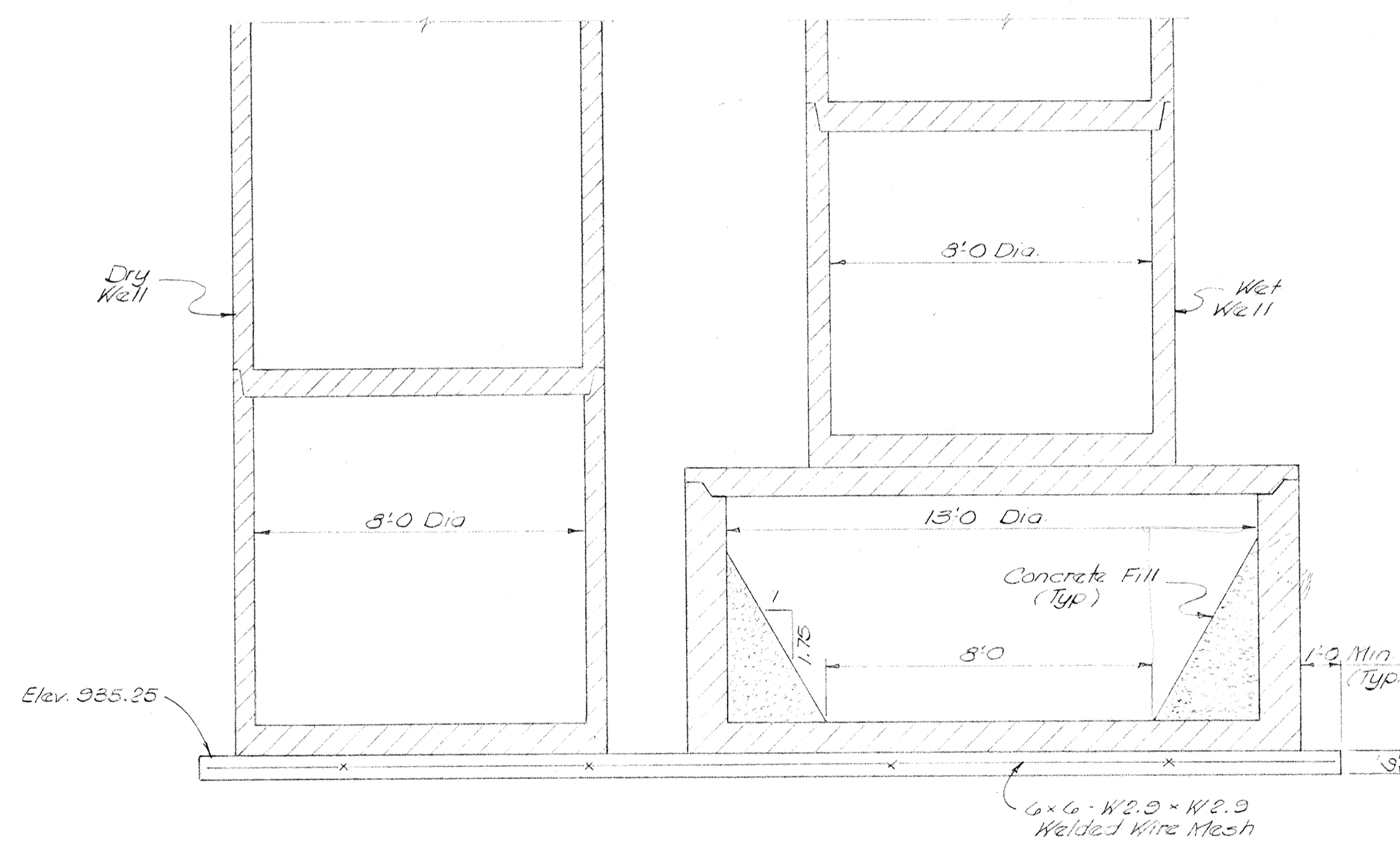
One inch diameter threaded wall inserts (See Detail A or B) shall be designed and cast-in place by the Pipe Manufacturer to withstand a safe vertical force of 6.70 kips.

The safety of pre-cast pipe shall be checked by the Pipe Manufacturer for force applied by each Anchor Bolt.

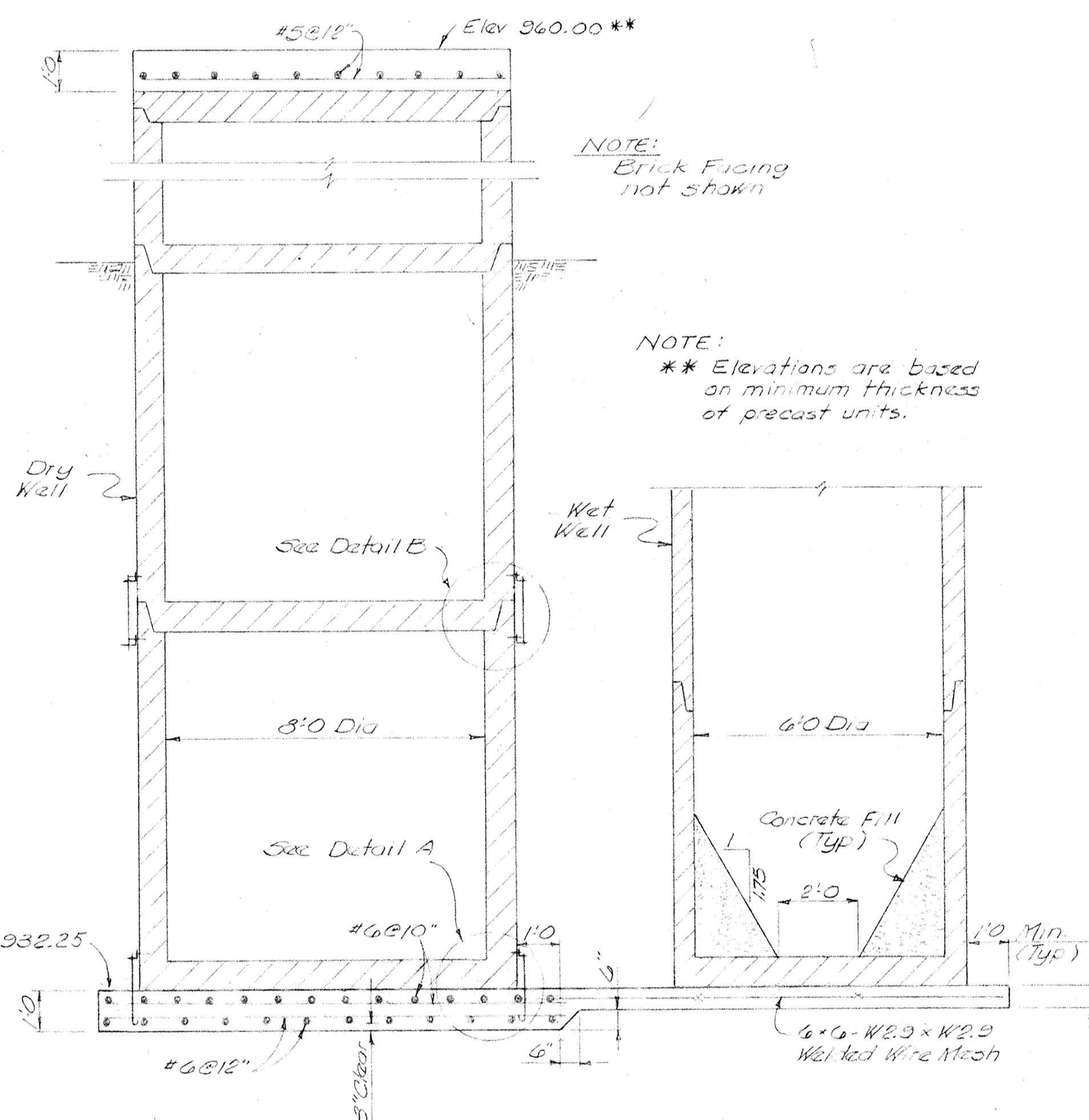
All reinforcing steel splices shall be 30 bar diameters unless otherwise noted.

DESIGN DATA:

Concrete - $f'_c = 3500$ psi
 $f'_c = 1575$ psi
 Reinforcing Steel - $f_s = 29,000$ psi



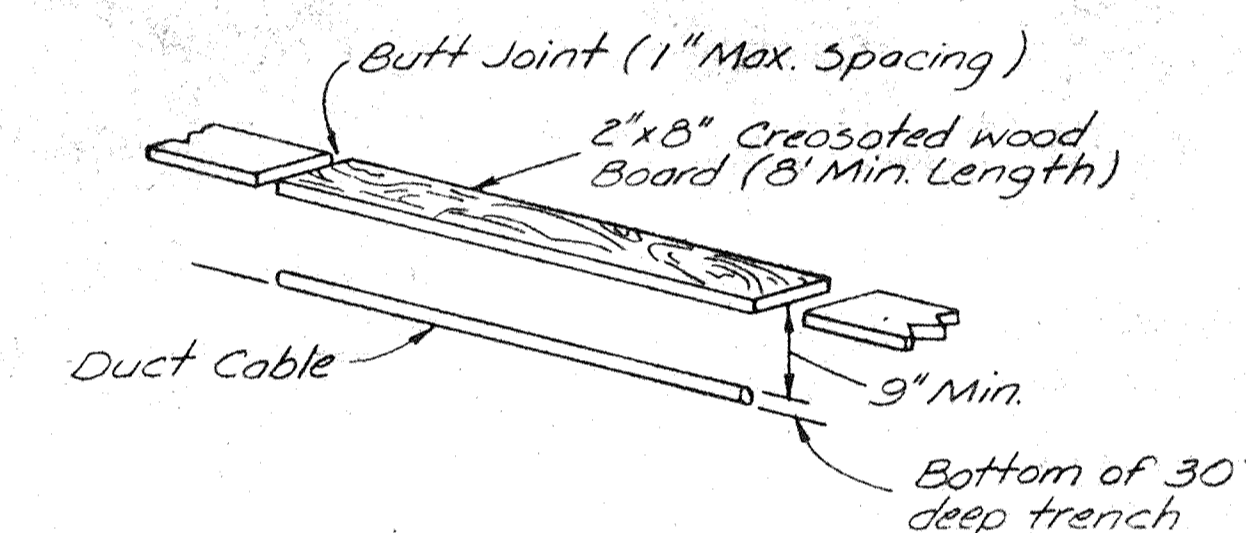
SECTION 1-1
PUMP STATION No. 2
Scale: 3/8" = 1'-0"



SECTION 2-2
PUMP STATION No. 3
Scale: 3/8" = 1'-0"

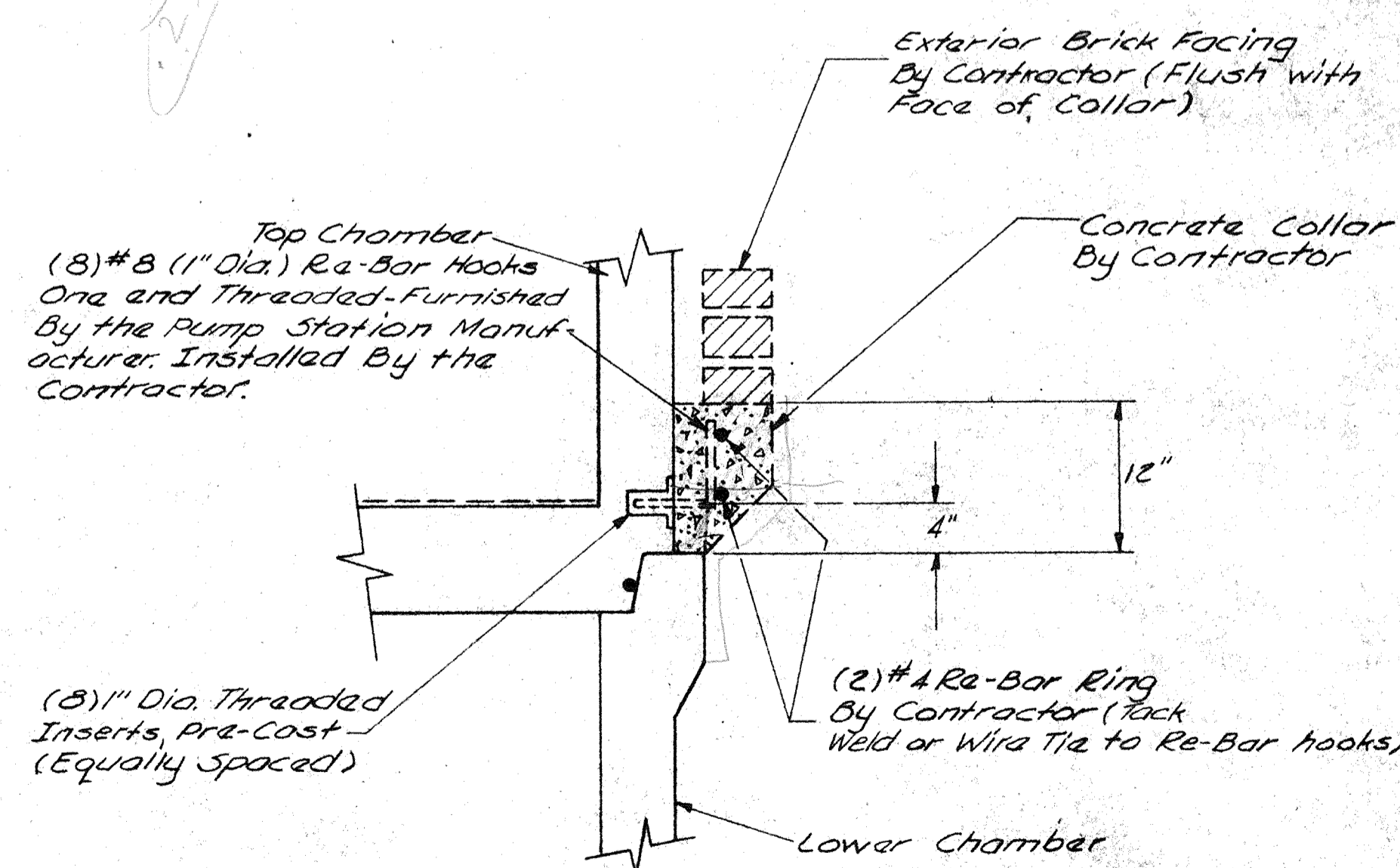
GENERAL NOTES

1. All work shall be done in accordance with Ohio Building Code and National Electrical Code.
2. Contractor to supply all material and labor from Utility Company drop point.
3. Contractor to arrange for service entrance, at location shown, with the Utility Company.
4. Grounding and fault protection shall be provided and installed as required by N.E.C.
5. All overcurrent protection to be coordinated to prevent cascading in case of fault.
6. The horsepower and amperage ratings shown are approximate only. The Contractor shall verify the electrical ratings of the equipment to be furnished, and provide proper controls, wire, conduit, and connection at no additional cost to the owner.
7. Motor overload heaters shall be field verified for motor nameplate current, and installed accordingly.
8. All wire sizes shown are for copper wire.
9. Wire and conduit size shown thus #8-1"
10. All conduit bonded for ground.
11. All switches to be heavy duty to withstand opening or closing under full load.
12. Ground lines are typical and required for all equipment. To be sized according to N.E.C. Table 250-95, and shall be provided for all circuits. Where equipment is supplied with a neutral terminal, this connection is also required.
13. Contractor shall furnish one set of spare fuses for each switch installed.
14. All switch handles shall be located at a height not to exceed 6'-0".
15. Bussman dual element fuse-tron fuse shall be used.
16. Wire size shown are for feeder conductor, grounding conductor to be in accordance with N.E.C.
17. Wire taps to change size of conductor due to lug size to be made by disconnect enclosures only.
18. Wire lengths shown are for each run unless otherwise noted. A run consists of two hot lines plus the ground for 230 Volt single phase power only.
19. Circuit breakers to have a minimum of 10,000 Amperes interrupting capacity.
20. All building lights to be 100 watt incandescent, for installation in Class I, Group D Atmosphere. Fixtures - Crouse-Hinds EVJ240; Pyle-Nation LEJ 231; or equal.

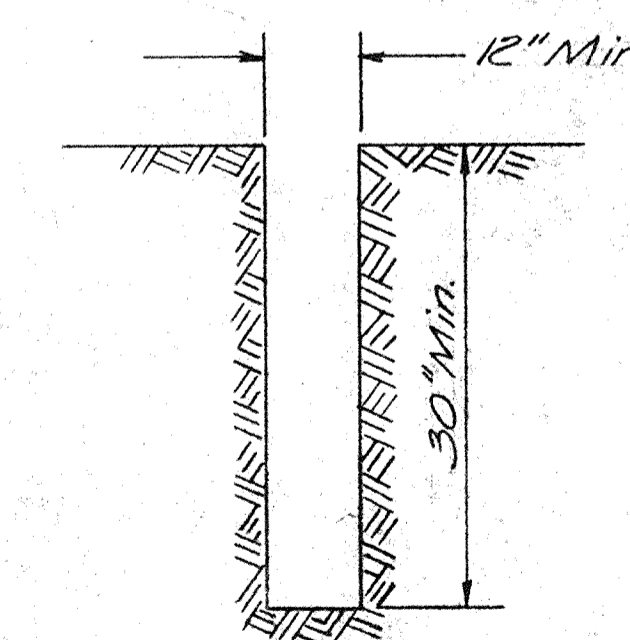


Note:
Creosoted Wood Boards shall be used over Duct Cable for all open trench installations.

DUCT CABLE PROTECTION DETAIL



BRICK FACING COLLAR DETAIL

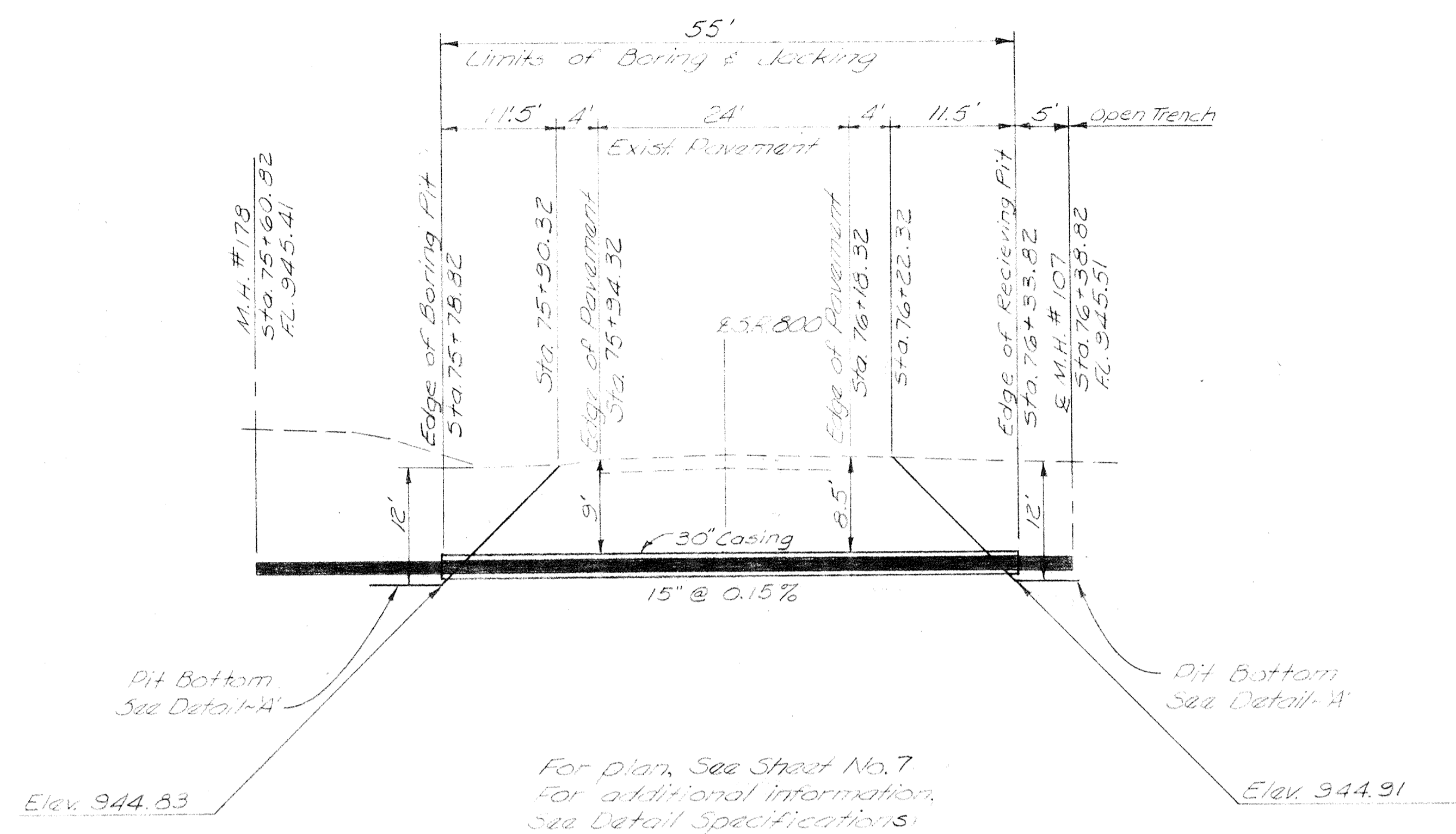


TYPICAL DUCT CABLE TRENCH

960

950

940



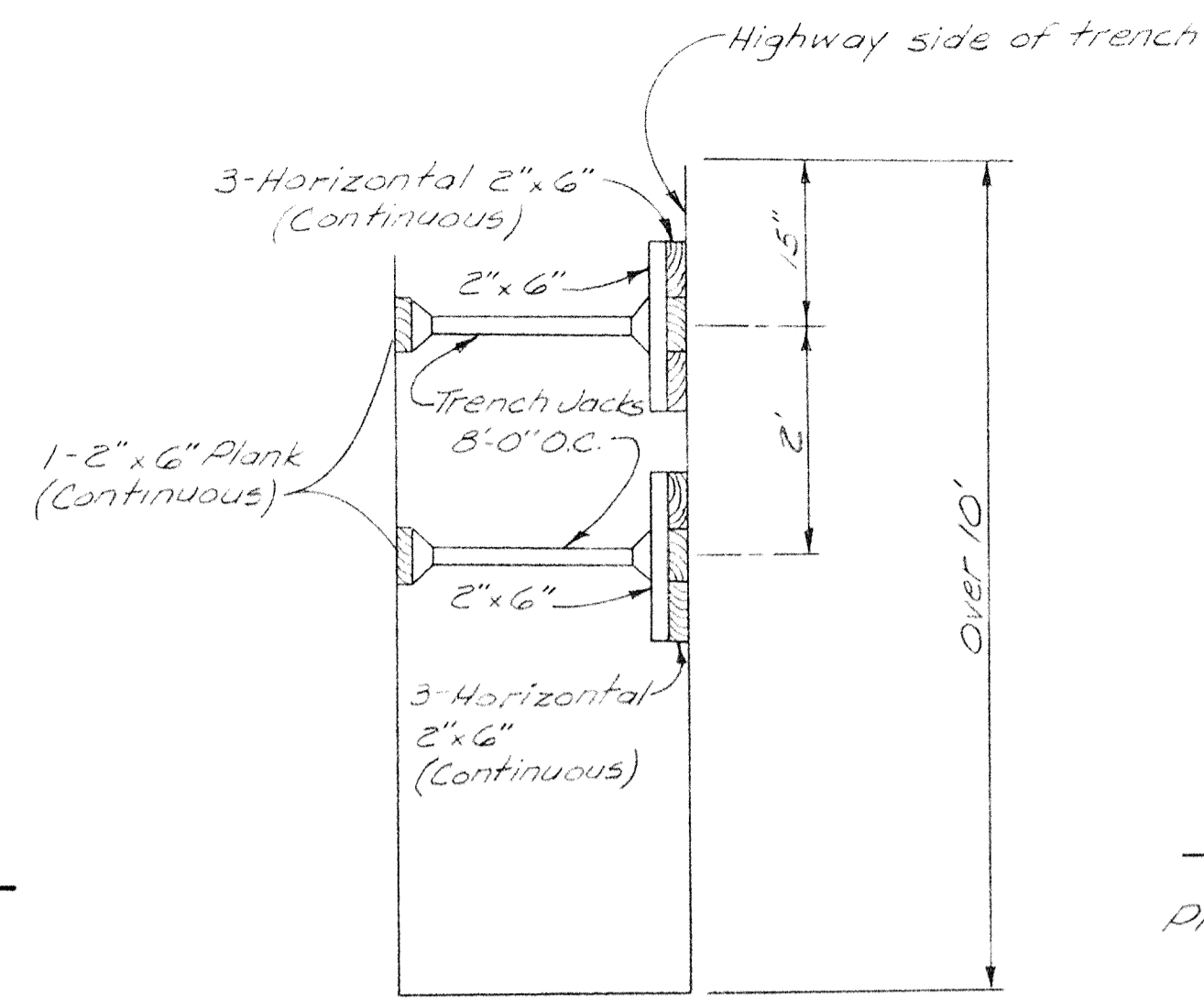
DETAIL NO. 3
EAST TRUNK LINE

960

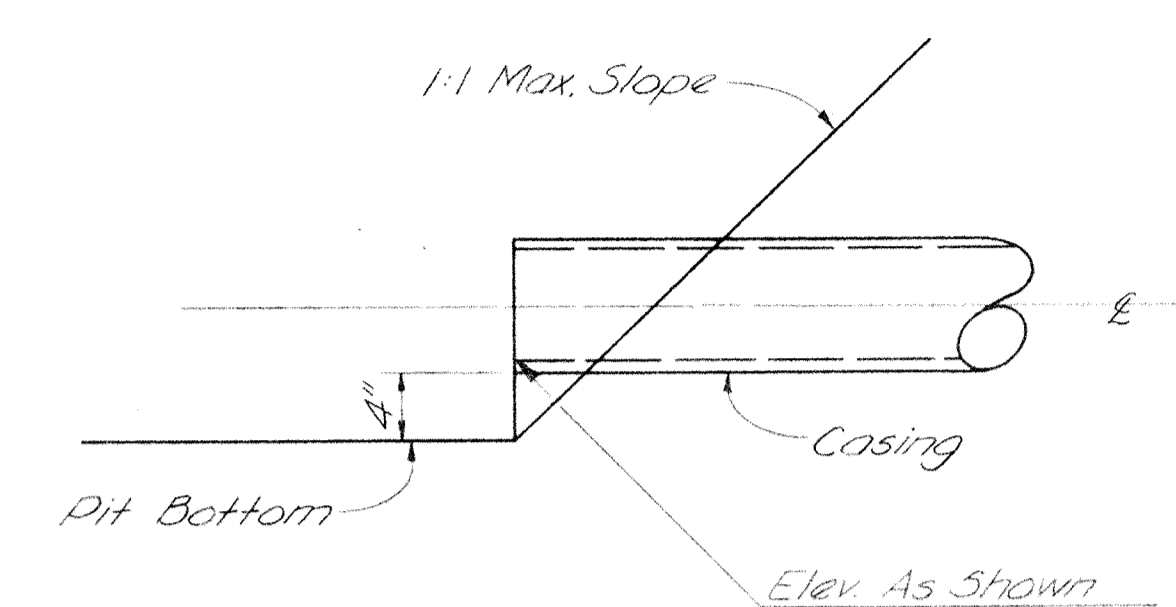
950

940

Note: To be used whenever the top of the trench excavation is within 3' of the edge of pavement or edge of paved berm.
(Other methods acceptable to O.D.O.T. may be used)

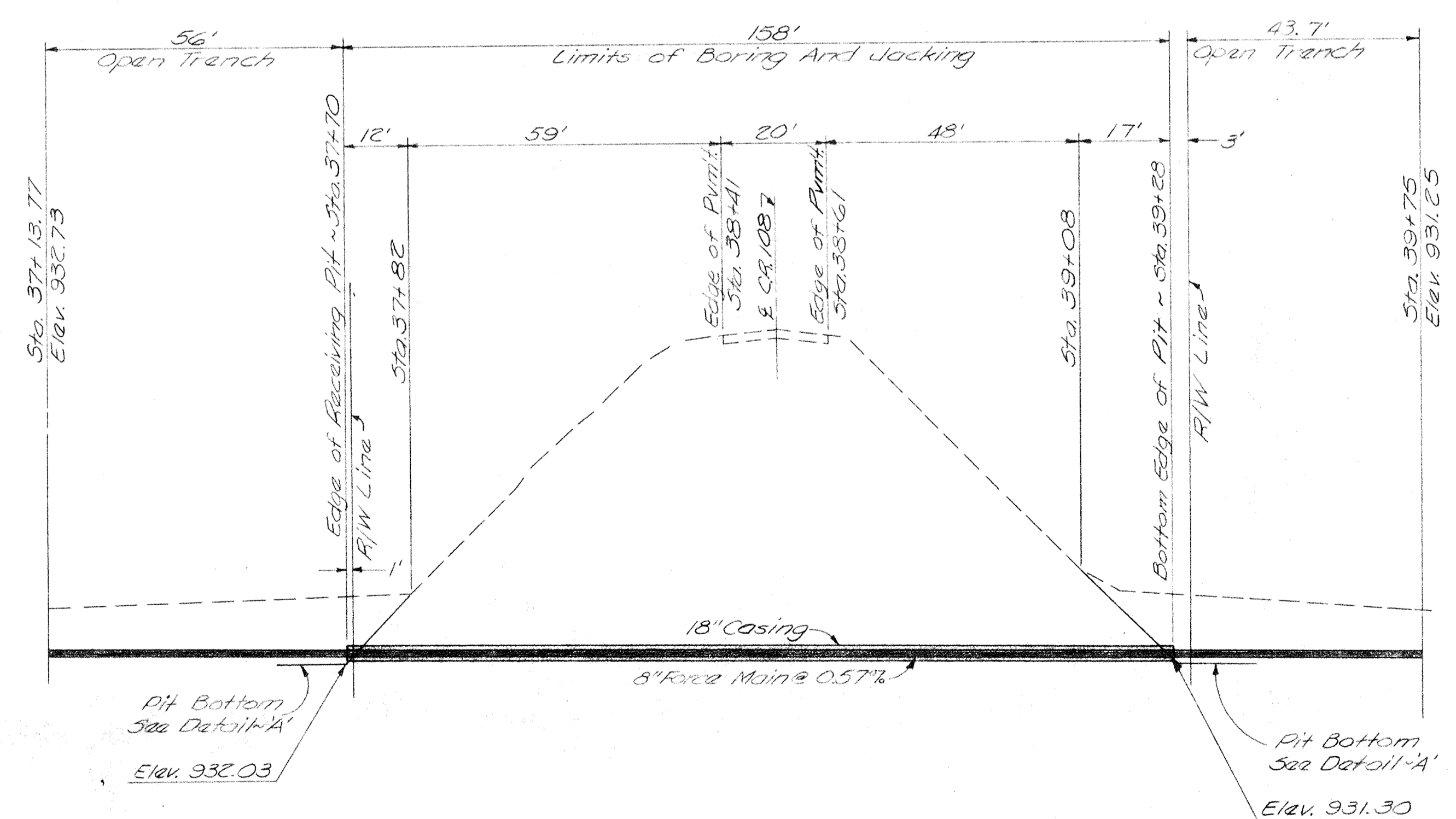


TYPICAL DETAIL 'C'
(No Scale)



NOTE: The bore pit length may vary as required. Bottom width of pit should not exceed 5 feet.

TYPICAL DETAIL 'A'
(No Scale)

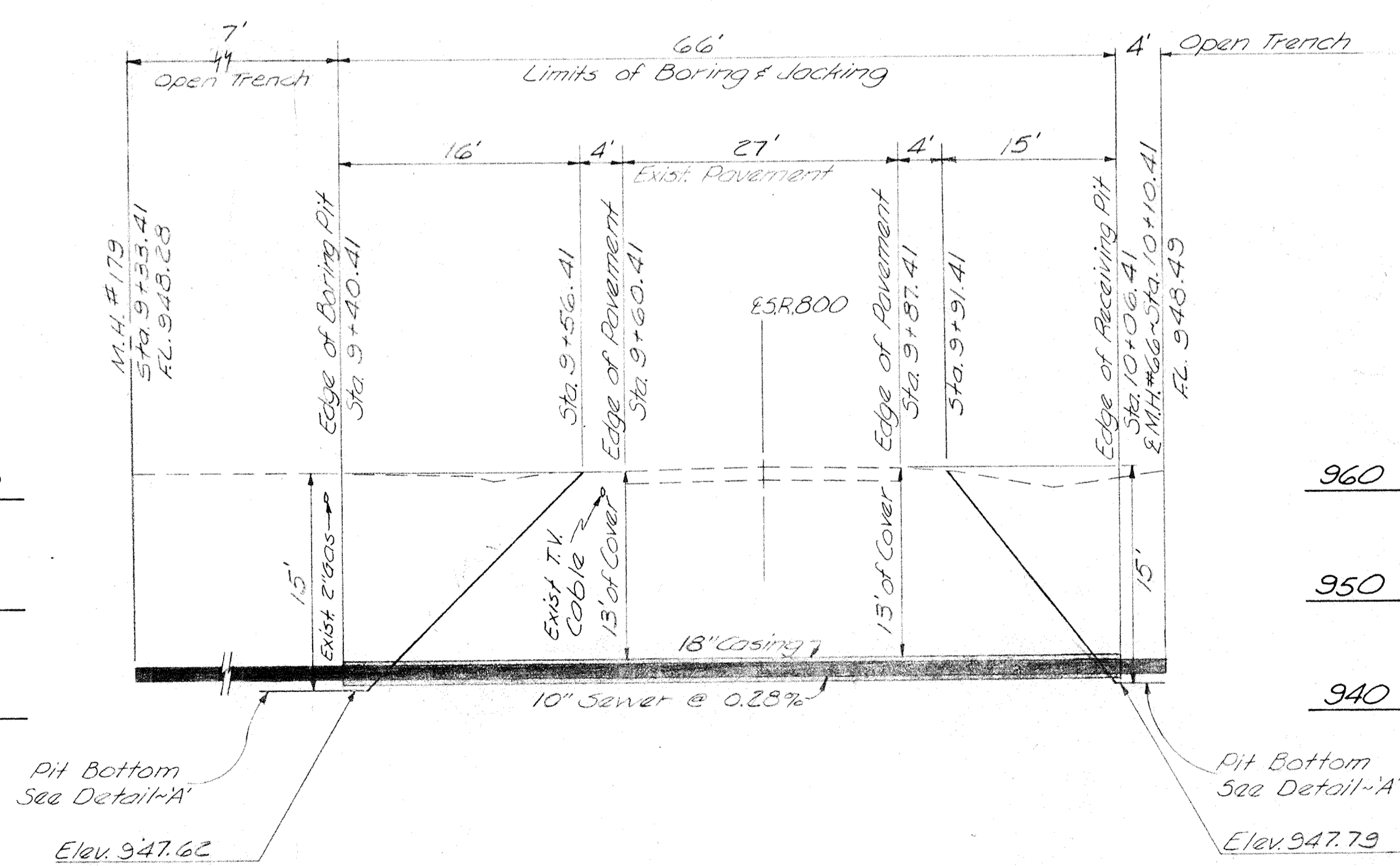


DETAIL NO. 1
C.R. 108

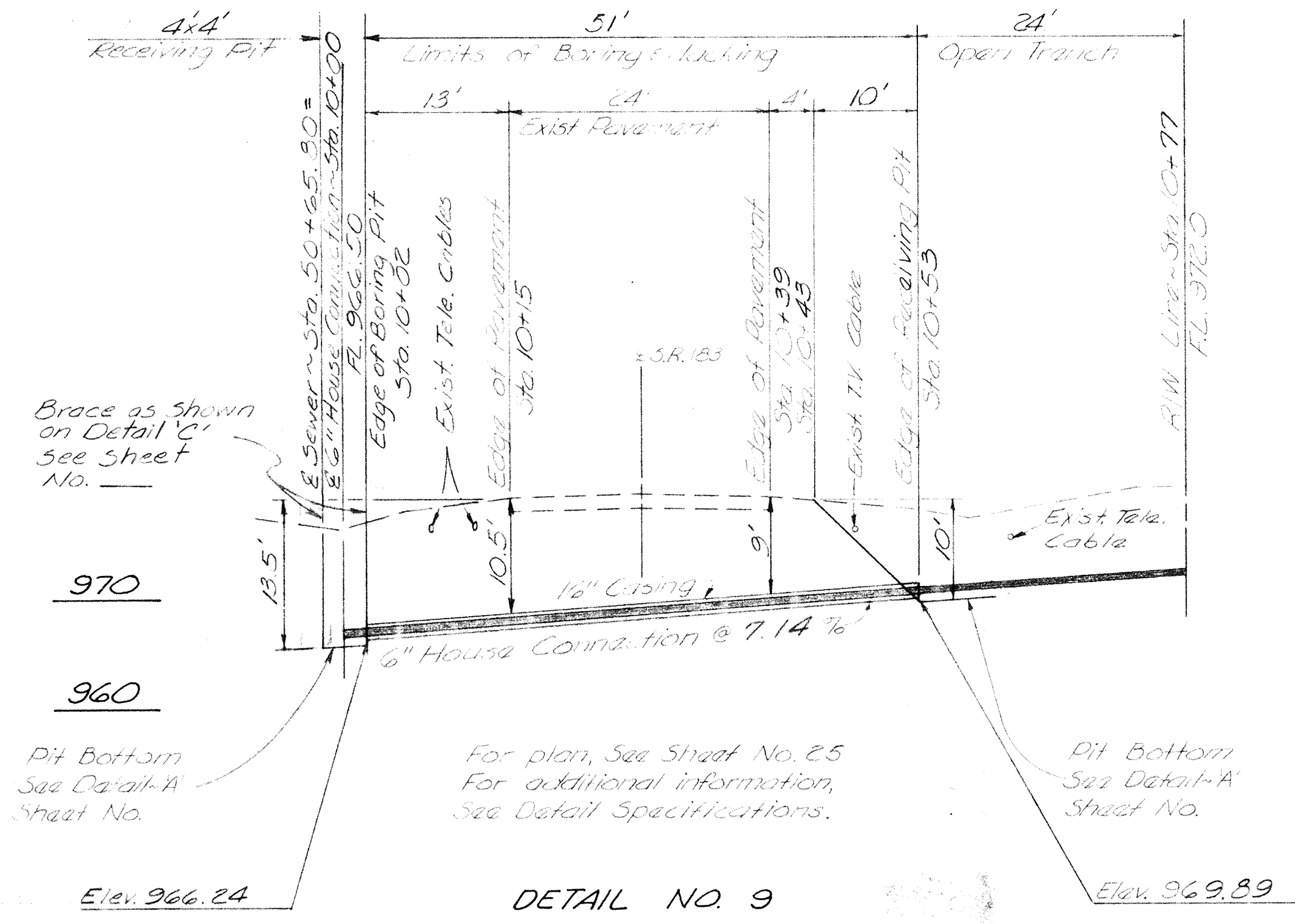
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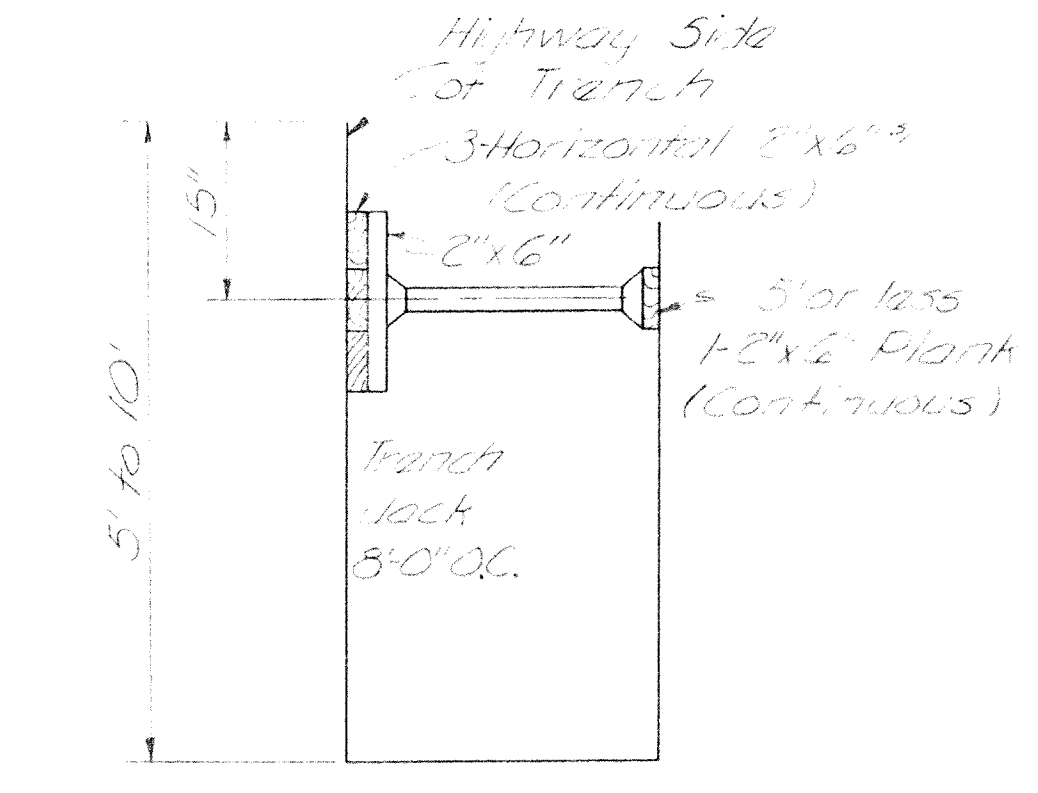
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DETAIL NO. 2
EAST TRUNK LINE
Scale: 1"=10'

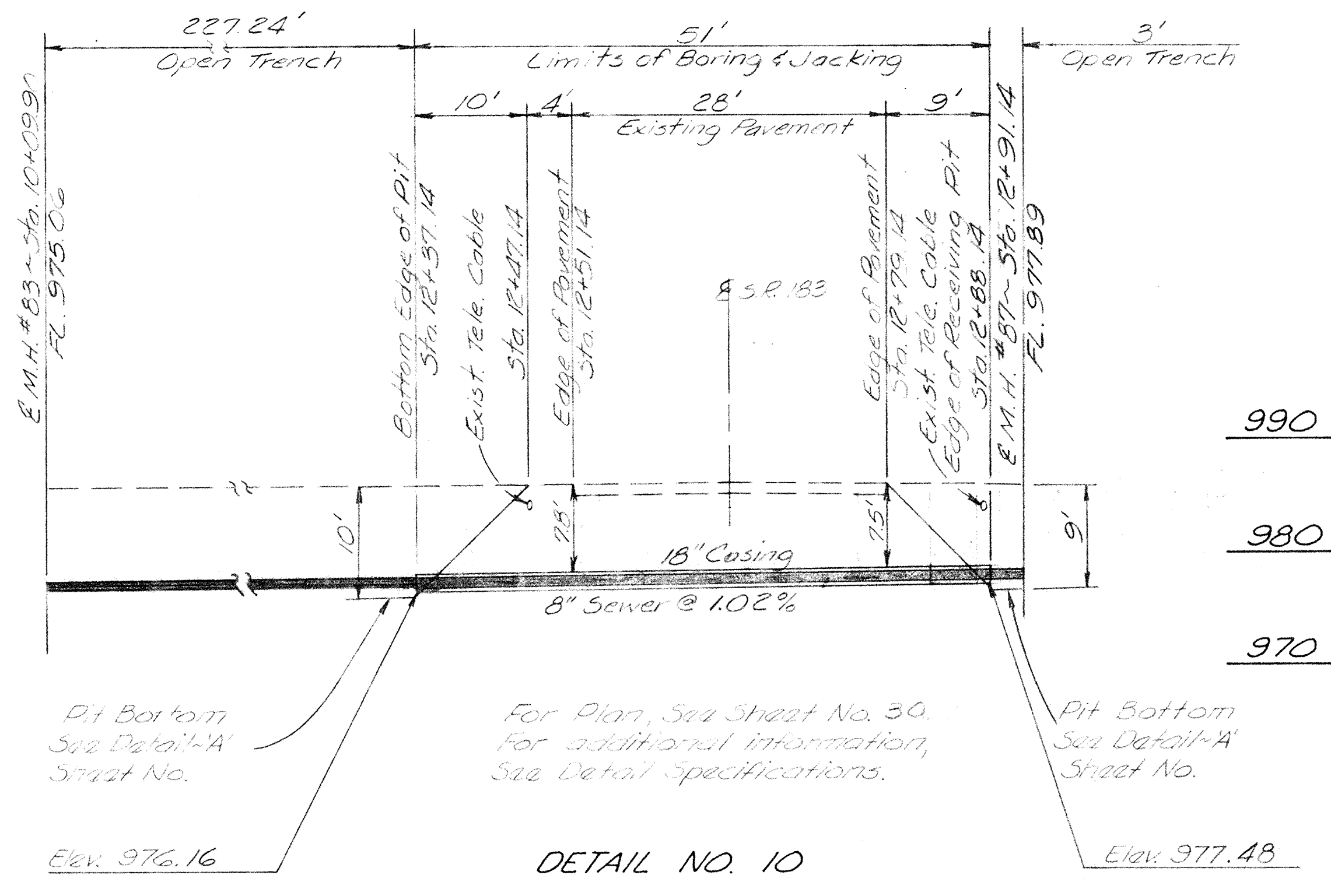


DETAIL NO. 9
S.R. 800 LATERAL-A'
 Scale: 1"=10'

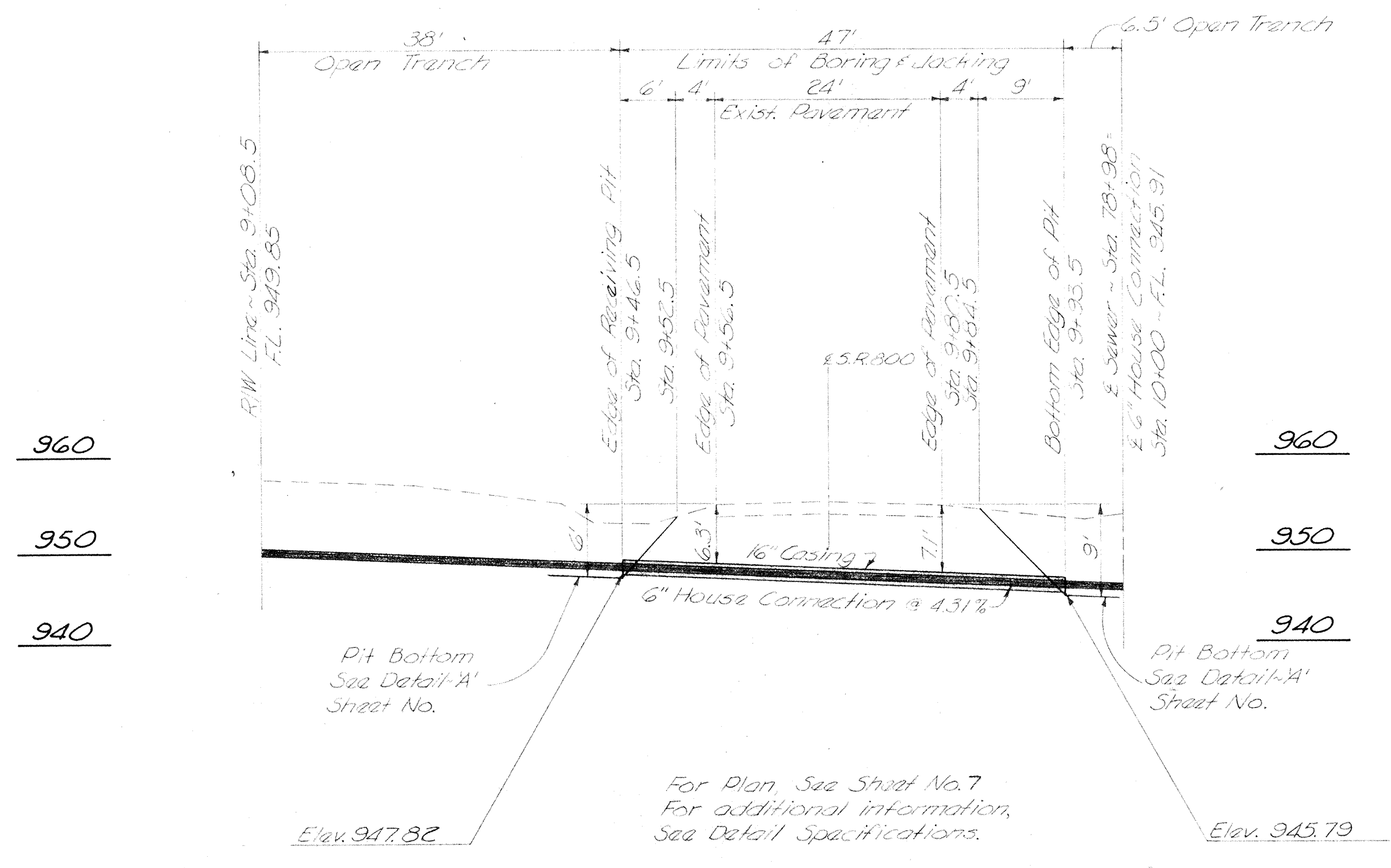


TYPICAL DETAIL 'B'
 No Scale

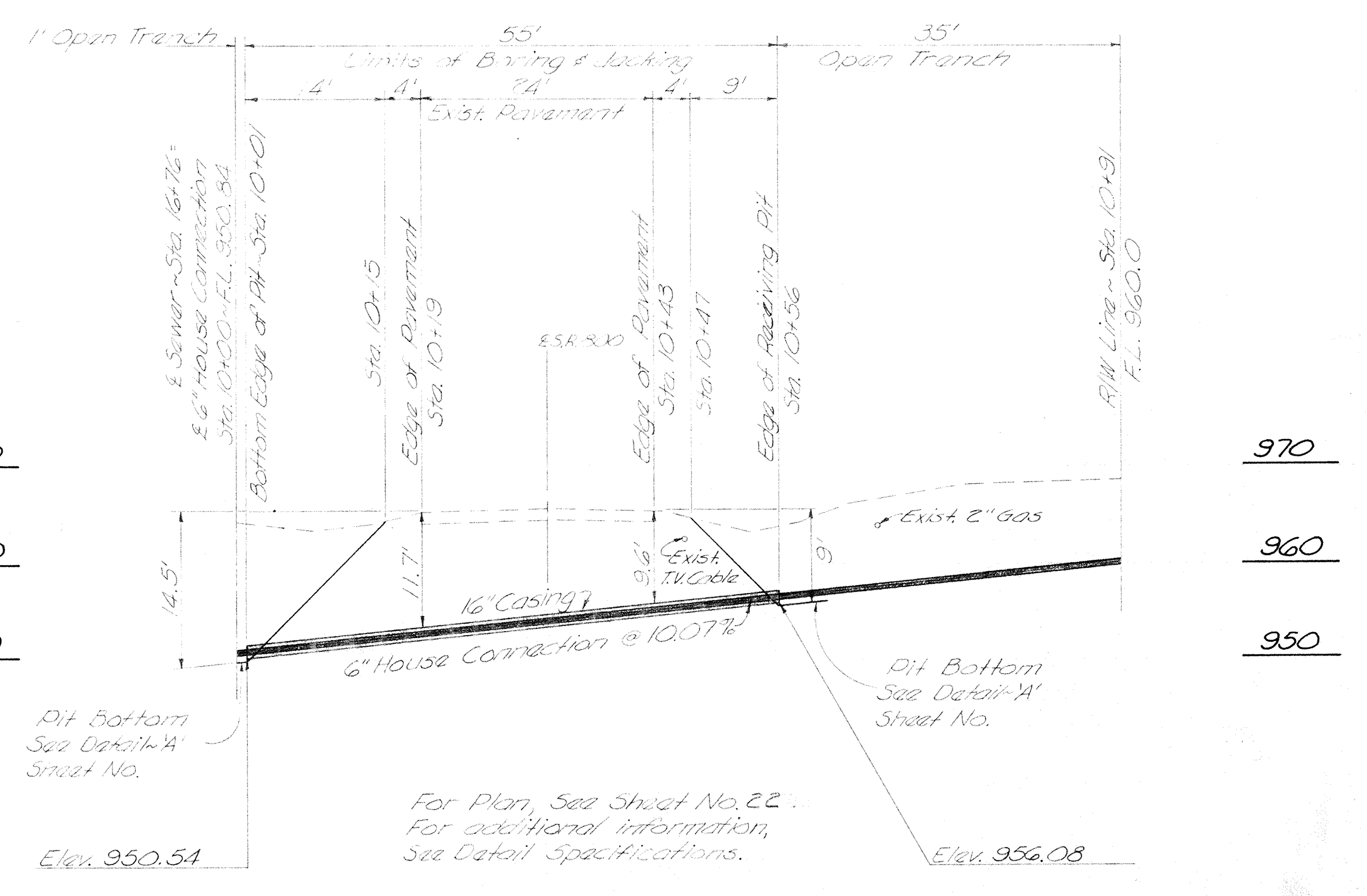
BRACING DETAIL
 (Other methods acceptable to D.U.O.T. may be used)
 To be used whenever the top of trench excavation is within 3' of the edge of pavement or edge of paved berm.



DETAIL NO. 10
LYNNWOOD DRIVE LATERAL-B'
 Scale: 1"=10'



DETAIL NO. 7
EAST TRUNK LINE
 Scale: 1"=10'



DETAIL NO. 8
S.R. 800 LATERAL-A'
 Scale: 1"=10'