

TRUNK STORM SEWER — ASSESSMENT SHEET

SECOND STREET AREA

Parcel No. Deed Description Owner of Record Owners Mailing Address Total Parcel Area SQ. FT. Area to be Assessed SQ. FT. % Benefit by Turnoff Adjusted Area by Turnoff Assessment For Open Ditch (Dollars) Assessment For Enclosed Ditch (Dollars) Total Estimated Assessment (Dollars)

$$K_1 = \frac{\text{Cost of Open Ditch}}{\text{Adjusted Areas A+B+C}} \approx \frac{2983.33}{257,473} \approx 0.0115870 \text{ Pr. Ft.}^2$$

$$K_2 = \frac{\text{Cost of Enclosed Ditch}}{\text{Adjusted Areas A+B}} \approx \frac{9916.67}{212,765} \approx 0.0466086 \text{ Pr. Ft.}^2$$

AREA "A"

1-8	Cooley's Addition Block No. 2	David M. & Blanche H. Platt Alma Schanke Robert J. Skillitter Nelson H. & Alma Schanke John R. Wyse Mary Hudson John R. Wyse Agatha Dekreon	Genoa, Ohio 304 S. Main St., Genoa, O. 306 West St., Genoa, O. 304 S. Main St., Genoa, O. Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio	7500 7500 7500 7500 5400 8250 900 15,750	7500 7500 7500 7500 5400 8250 900 15,750	25	1875 1875 1875 1875 1350 2062 150 3937	21.73 21.73 21.73 21.73 15.64 23.89 1.74 43.62	87.39 87.39 87.39 87.39 62.92 96.11 6.99 183.50	109.12 109.12 109.12 109.12 78.56 120.00 8.73 229.12
9-15	Cooley's Addition Block No. 3	Ross W. & Sybil Kreeger Helen G. Crockett Genevieve Geldine Frank C. Herman Zella Kamke Bernice Hennen Otto L. Arndt	Genoa, Ohio Genoa, Ohio 211 Main St., Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio	7500 7500 7500 7500 7500 7500 15,000	7500 7500 7500 7500 7500 7500 15,000	25	1875 1875 1875 1875 1875 1875 3750	21.73 21.73 21.73 21.73 21.73 21.73 43.45	87.39 87.39 87.39 87.39 87.39 87.39 174.78	109.12 109.12 109.12 109.12 109.12 109.12 218.23
16-19	F. Rundell's 1st Addition Block No. 1	Marcelino & Ruth Castilleja Hazel Champion Dolores P. Purtee Mary Johnson	207 S. Main St., Genoa, Ohio Genoa, Ohio Genoa, Ohio % N.C. Johnson, 115 W. Rice St. Elmore, Ohio	7500 7500 7500 7500	7500 7500 7500 7500	25	1875 1875 1875 1875	21.73 21.73 21.73 21.73	87.39 87.39 87.39 87.39	109.12 109.12 109.12 109.12
20-22	F. Rundell's 1st Addition Block No. 2	Elizabeth Bubb Barbara Layman Virginia J. Zupp	208 Washington St., Genoa, O. 206 Washington St., Genoa, O. 202 Washington St., Genoa, O.	7500 7500 15,000	7500 7500 15,000	25	1875 1875 3750	21.73 21.73 43.45	21.73 21.73 174.78	109.12 109.12 218.23
23-28	F. Rundell's 1st Addition Block No. 3	Louis J. & Caroline M. Meng Nelson F. Zahloff Lloyd & Hazel Champion Susan L. Garey Anna Zak Virginia J. Zupp	Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio 202 Washington St., Genoa, O.	7500 7500 15,000 7500 7500 15,000	7500 7500 15,000 7500 7500 15,000	25	1875 1875 3750 1875 1875 3750	21.73 21.73 43.45 21.73 21.73 43.45	87.39 87.39 174.78 87.39 87.39 174.78	109.12 109.12 218.23 109.12 109.12 218.23
29-32	F. Rundell's 1st Addition Block No. 4	Earl & Nellie Long Afton K. Kelly James C. Pierson William N. & Ora Gladden	Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio	7500 6330 7500 6240	7500 6330 7500 6240	25	1875 1583 1875 1560	21.73 18.34 21.73 18.08	87.39 73.78 87.39 72.71	109.12 109.12 109.12 90.79
33-35	Streets & Alleys	George Lehring, Bishop Louise Ann Cashen Nora Cashen	2544 Parkwood, Toledo, O. Genoa, Ohio Genoa, Ohio	35,000 7500 7500	35,000 7500 7500	25	8750 1875 1875	101.39 21.73 21.73	907.83 87.39 87.39	509.22 109.12 109.12
36-37	F. Rundell's 3rd Addition Block No. 2	George Lehring, Bishop Elizabeth M. Patchett	2544 Parkwood, Toledo, O. 608 E. Perry, Port Clinton, O.	7500 7500	7500 7500	25	938 938	1087 1087	43.72 43.72	54.57 54.57
38-41	D. G. Bowers' 1st Addition Block No. 3	Jennie Plantz Inez Skillitter LaPlantz Nelson & Alma Schanke Kenneth V. Plantz	Genoa, Ohio Genoa, Ohio Genoa, Ohio Genoa, Ohio	7500 7500 7500 7500	7500 7500 7500 7500	25	938 1875 1875 1875	10.87 21.73 21.73 21.73	43.72 87.39 87.39 87.39	54.57 109.12 109.12 109.12
42-44	D. G. Bowers' 1st Addition Block No. 5	Augusta Schulte Joseph J. & Ina M. Verkin William J. Pfeiffer	Genoa, Ohio Genoa, Ohio Genoa, Ohio	7500 7500 7500	7500 7500 7500	25	1875 1875 1875	21.73 21.73 21.73	87.39 87.39 87.39	109.12 109.12 109.12
45	Parcel in Village of Genoa, Ohio Living N of 7th St. & between Main & West Sts. S. of Lots 3 & 6 D. G. Bowers' 1st & 2nd Add. respectively (See V. 86, P. 642)	George Lehring, Bishop	Genoa, Ohio	80,375	80,375	25	15,488	177.46	721.87	901.33
46	Streets & Alleys	Genoa, Ohio	Genoa, Ohio	281,565	281,565	25	70,391	815.48	3280.86	4096.34
TOTAL OF AREA "A"				744,760	771,338		179,335	2077.95	8358.55	10436.50

AREA "B"

47-48	F. Rundell's 3rd Addition Block No. 1	George Lehring, Bishop Eldo W. & Agnes Bergman	Genoa, Ohio Genoa, Ohio	30,000 15,000	30,000 15,000	5	1500 750	17.38 8.70	69.91 34.95	87.29 43.65
49	Parcel in Clay Twp., Ottawa Co., Ohio being N 1/2 of 5 1/2 E. of NE 1/4 Sec. 4, T. 16 N., R. 15 E., containing 35 Acres excepting the E. 5 Acres containing 35 Acres (see V. 213, P. 98)	Eldo W. & Agnes Bergman	Genoa, Ohio	1,524,600	249,150	5	12,457	144.34	580.60	724.94
50	Parcel in NE 1/4 Sec. 4, Clay Twp., Ottawa Co., Ohio containing 17.5 Acres excepting H. J. Heinz Co. parcel 2.55 Acres (see V. 213, P. 98 & V. 155, P. 535)	Eldo W. & Agnes Bergman	Genoa, Ohio	585,322	53,850	5	2692	31.19	125.47	156.66
51	Parcel in NE 1/4 Sec. 4, Clay Twp., Ottawa Co., Ohio Adjacent to 1/4 Sec. Line Sec. 4 & Genoa Clay Center Rd. (see V. 131, P. 159)	Angelo Migliori, Etux	% Woodville State Bank Woodville, Ohio	12,651	10,676	5	534	6.19	24.89	31.08
52	Parcel in NE 1/4 Sec. 4, Clay Twp., Ottawa Co., Ohio Adjacent to S. Side of 2nd St. & between Buckeye & Superior Sts., Genoa, Ohio	H. J. Heinz Co.	Pittsburgh Penn.	111,078	53,750	5	1688	19.56	78.68	98.24
53	E. 4.71 Acs. of N 1/2 of 5 1/2 E. of NE 1/4 Sec. 4, Clay Twp., Ottawa Co., Ohio (T. 16 N., R. 15 E.) see V. 150, P. 428 V. 151, P. 159	George Lehring, Bishop	Genoa, Ohio	205,168	88,324	5	4416	51.17	208.82	256.99
54	Streets & Alleys	Ottawa County, Ohio	Ottawa County, Ohio	19,800	19,800	2.5	4950	57.34	230.71	288.05
56	Street & Alley (West St.) Parcel 200 x 329.5 NE 1/4 Sec. 4	Clay Twp., Ottawa Co., Ohio	Clay Twp., Ottawa Co., Ohio	22,950	22,950	5	1148	13.30	53.51	66.81
57	Parcel 200 x 329.5 NE 1/4 Sec. 4	George Lehring, Bishop	Genoa, Ohio	65,900	65,900	5	3295	58.18	153.58	191.76
TOTAL OF AREA "B"				2,592,449	589,400		33,430	387.35	1558.12	1945.47

AREA "C"

55	Parcel in NW 1/4 Sec. 3 Clay Twp., Ottawa Co., Ohio see V. 86, P. 152 V. 213, P. 228 V. 85, P. 221	United States Gypsum Co.	Gypsum, Ohio	3,417,573	894,150	5	44,708	518.03	—	518.03
TOTAL OF AREA "C"				3,417,573	894,150		44,708	518.03	—	518.03
TOTAL OF ALL AREAS				6,294,782	2,200,888		257,473	2,983.33	9916.67	12,900.00

SECOND STREET AREA TRUNK STORM SEWER

(FROM MAIN ST. TO RUNDALL DITCH)

OFFICE
COPY / with
Notes
SAFE

VILLAGE of GENOA
OTTAWA COUNTY, OHIO

I, **I**, hereby approve these plans and declare that the making of this improvement will necessitate the closing of portions of the rights-of-way in which said improvement is proposed to be constructed, and that detours and access will be provided as necessary.

OTTAWA COUNTY ENGINEER

Delos J. Nissen Date

CONVENTIONAL SIGNS

Center Line	----
Corporation Line	-----
Fence Line	-----
Power Poles	
Telephone Poles	
Trees & Stumps	⊗ ⊗ ⊗ ⊗ ⊗
Trees & Stumps (To Be Removed)	⊗ ⊗ ⊗ ⊗ ⊗

INDEX OF SHEETS

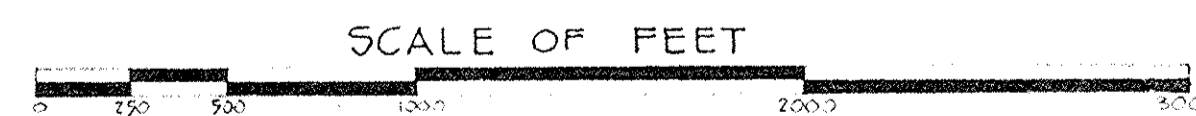
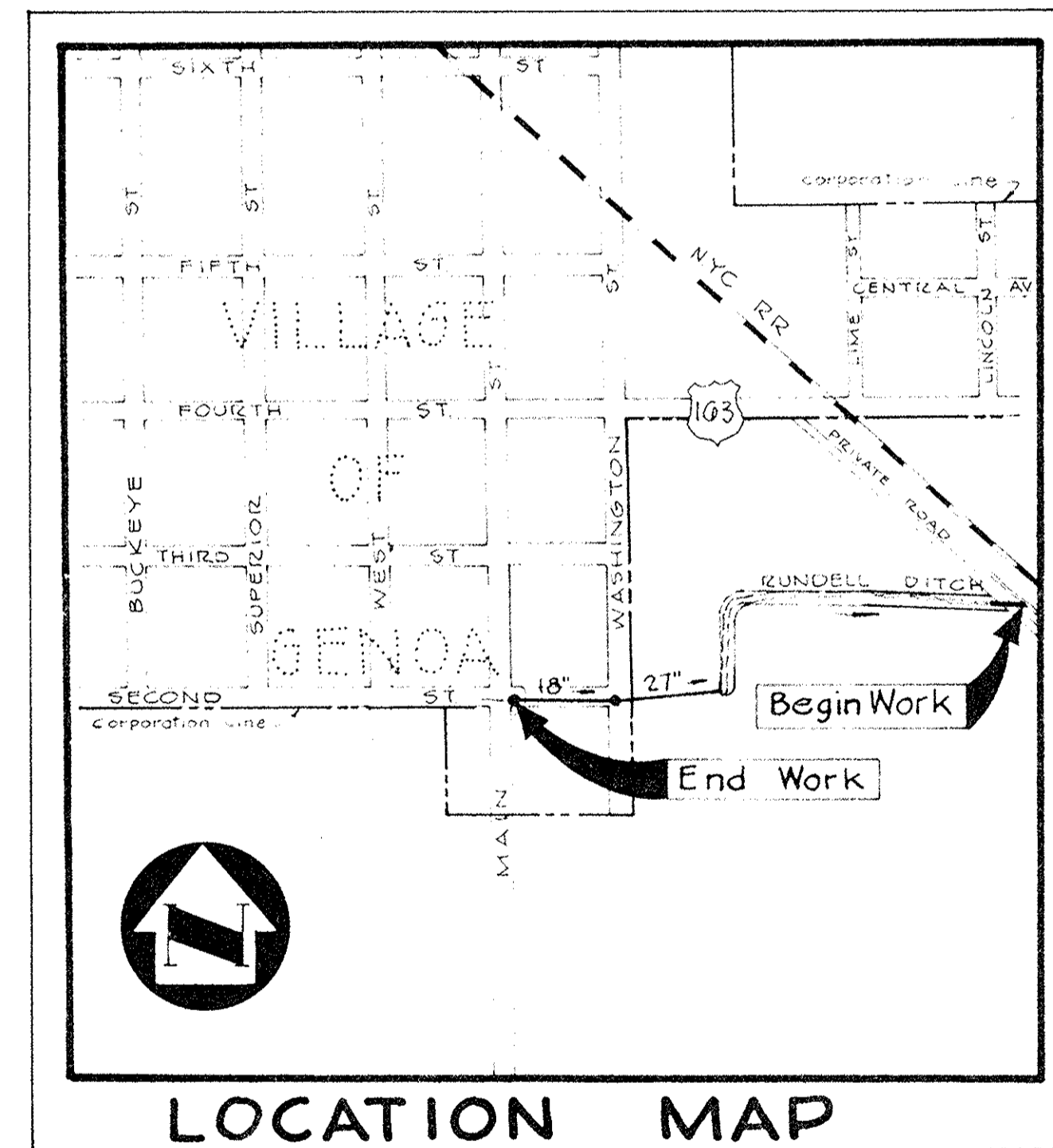
Title Sheet	1
Drainage Area Map	2
General Notes & General Summary	3
Plan & Profile	4, 5, 6
Standard Drawings	A

STANDARD DRAWINGS

ITEM	DESCRIPTION
I-8	Manholes

LINE DATA

Begin Trunk Sewer	Sta 22+84
End Trunk Sewer	Sta 10+14
TOTAL LENGTH	670 Lin. Ft.
Begin Rundell Ditch Improvement	Sta 12+08
End Rundell Ditch Improvement	Sta 0+11
TOTAL LENGTH	1287 Lin. Ft.
Total Project Length	1,957 Lin. Ft. or 0.37 Miles

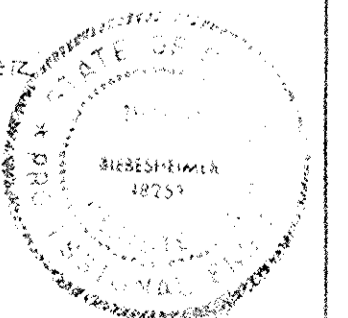


BENCH MARK DATA

U.C.C.C. B.M. - Cross cut in 20" Slab at East Sidewalk of Main St North of Packer Creek Bridge	Elevation = 623.67
SITE B.M. #1 - Top of East Bolt of Hydrant at N.E. Corner of Second St & Main St	Elevation = 632.03

T. C. BIEBESHEIMER ENGINEERING CO.
CIVIL ENGINEERS AND SURVEYORS
1100 JACKSON ST. - TOLEDO, OHIO

by: *T. C. Biebesheimer*
REGISTERED PROFESSIONAL ENGINEER
date: *June 1953*



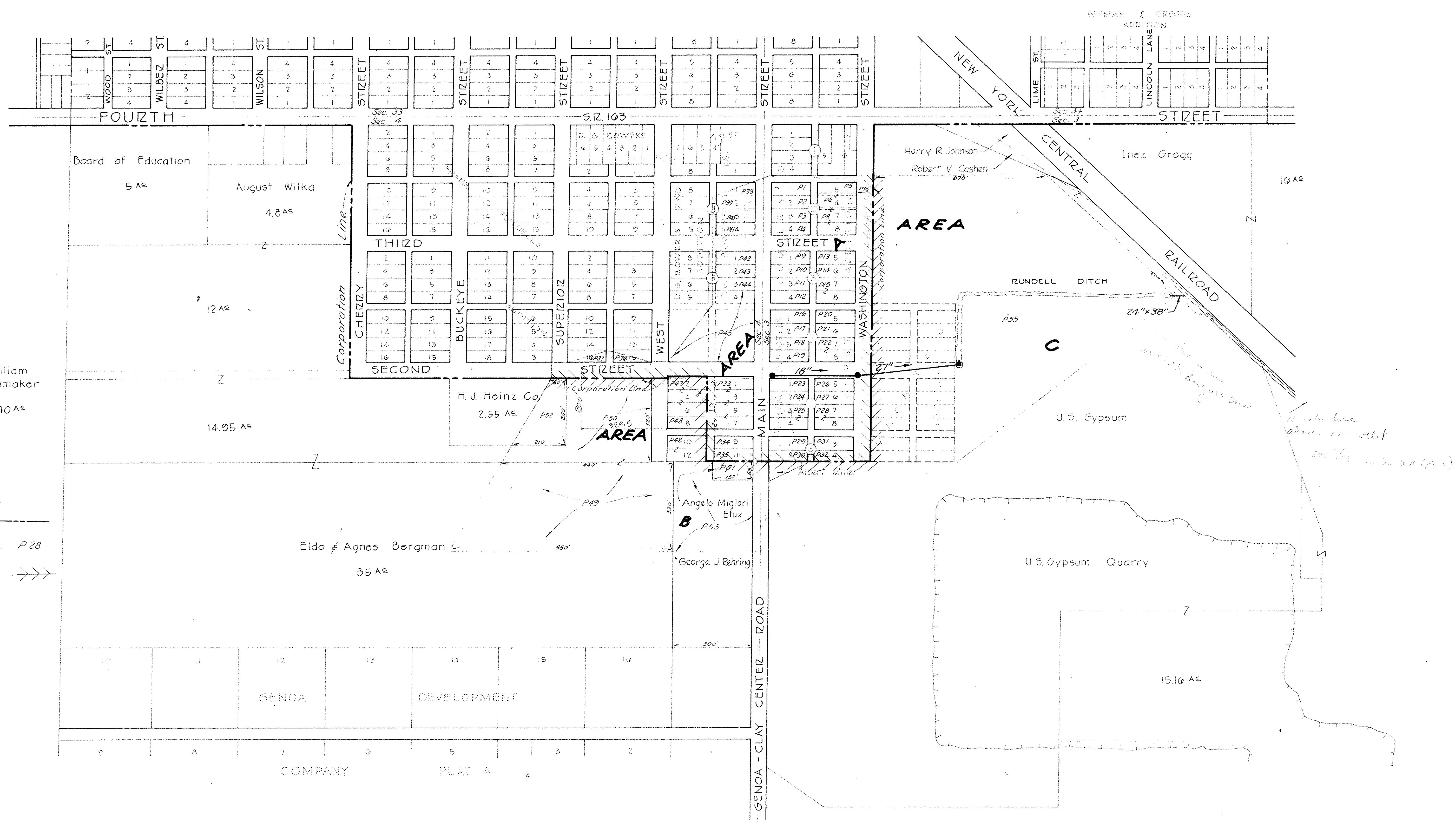
REVISED	DESIGN	DRAWN	CHECKED	COMM. NO.	SHEET NO.
	JK	JK	JK	6308	1/6

DRAINAGE AREA MAP

SECOND STREET AREA TRUNK STORM SEWER

GENOA, OHIO

Scale: 1" = 200'



LEGEND
 Boundary of Drainage Area
 Village Corporation Line
 Assessment Area Parcels Shown P28
 Sub-Area Boundary>>>

REVISED	T.C. BIEBESHEIMER ENGINEERING CO.			2 6
BY DATE CHARACTER	CIVIL ENGINEERS AND SURVEYORS TOLEDO, OHIO • PORT CLINTON, OHIO			
DESIGN	DRAWN	CHECKED	COMM. NO.	
	JMK	LBH	6305	

GENERAL

SEEDING AND PROTECTING: Seeding shall extend within work limits of Second Street Right-of-Way from Station 16+05 to Station 19+90 outside of paved areas.

The following seeding mixture shall be used:

Kentucky Bluegrass	45%
White Clover	10%
English Rye	30%
Alfa Fascue	15%

See general note: Cleaning site & restoring damaged surfaces

FERTILIZER: Commercial Fertilizer (4-12-4) shall be applied to all seeded areas at the rate of 20 pounds per 1000 sqft.

All areas and spots that do not show a prompt "catch" shall be reseeded at intervals of 21 days. This shall be continued until a good growth is established over the entire area.

SPECIFICATIONS: All work shall conform to the State of Ohio, Department of Highways, Construction and Material Specifications and Supplements thereto in effect 14 calendar days prior to the receiving of bids and to these plans, profiles, cross-sections and standards and such of the supplementary specifications of the State of Ohio, Department of Highways as are made a part of these plans by reference.

EXISTING SEWERS & DITCHES: The Contractor shall be responsible for maintaining flow in all existing ditches, storm sewers and sanitary sewers at all times during the course of construction.

GRADES: Grades for the tops of all manholes and catch basins which are not specified in these plans will be determined by the Engineer.

DISPOSAL: Any material to be disposed of, which cannot be disposed of on the project to the satisfaction of the Engineer, shall be removed from the site and disposed of at the expense of the Contractor.

CONNECTING EXISTING PIPES: All existing storm drains or tiles which are tributary to the existing sewer or ditch shall be connected to the new sewer pipe in a manner satisfactory to the Engineer. The cost of such connections, unless otherwise noted in the plans, shall be considered paid for in the unit price per linear foot bid for the item to which the pipe connection is made.

Existing drains are shown on the plans, but this information is not guaranteed as to accuracy or completeness.

Where tile or pipe drains extend across or into the improved ditch, such tile or pipe shall be removed from the limits of excavation and the remaining pipe or tile shall be cut in such a manner that a satisfactory outlet is provided into the new stream bed. Such removal of pipe or tile and necessary repairs or modifications to existing pipe or tile, shall be considered paid for in the unit price bid per linear foot for Item E-3, Ditch Cleanout.

ROCK: Rock surface elevations from test holes will be found on sheet 4.

NOTES

PIPE IDENTIFICATION MARKINGS: Pipes shall bear initials or markings indented or stenciled legibly on the burralls for the purpose of indicating the class or specification number of each piece.

PIPE JOINTS: Joints shall conform to the requirements of Section I-105.

BACKFILLING: Backfilling shall conform to the requirements of Section I-107 and these plans.

CLEANING SITE & RESTORING DAMAGED SURFACES: The Contractor shall, upon completion of backfilling, restore all surface material which has been disturbed, including paving, lawns, drives, sidewalk or fence to a condition equal to that which existed prior to beginning work. The requirements of Section I-108 shall be carefully carried out.

Unless otherwise noted in the plans, the cost of removal and replacement of existing surfaces shall be included in the unit price bid for the appropriate size and type of pipe.

UTILITY ADJUSTMENT: Any and all work required for public or private utilities will be done by and at the expense of their respective owners unless otherwise noted on these plans.

All facilities intersecting the line of the project, either above or below the working grade limits, shall be located by the Engineer to the best of his ability, and the Contractor shall be immediately informed of such facilities and their locations.

After the Contractor has been informed of the locations of any facilities, no work shall be performed within fifty (50) feet of said locations unless the Engineer or his duly authorized representative is present at all times when work is being done and such work is proceeding to the satisfaction of the Engineer.

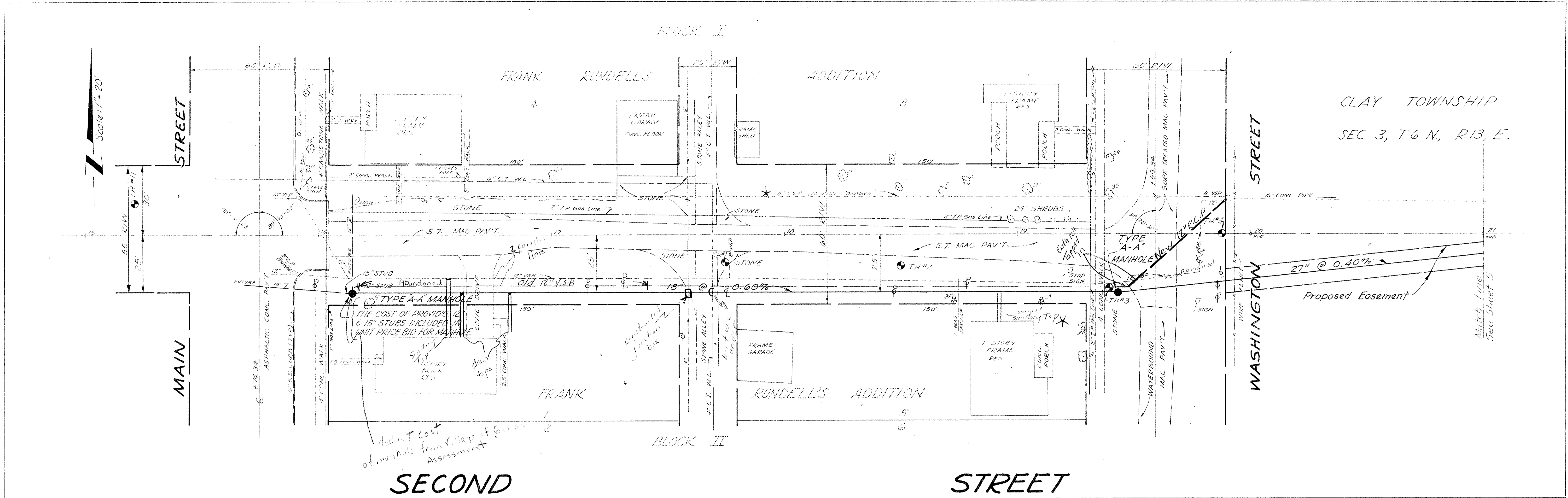
If, for any reason, the Contractor should disrupt or endanger the operation of any facility, all work at the affected location must be stopped until the owner of the said facility has been informed and has been given seven (7) days to accomplish such protection or relocation of the facility as its owner may desire.

GENERAL			SUMMARY
ITEM	QUAN.	UNIT	DESCRIPTION
E-3	1185	Lin.Ft.	DITCH CLEAN-OUT
I-1	6	Lin.Ft.	15" PIPE, CLASS E-1, M-6.5(a)
I-1	304	Lin.Ft.	18" PIPE, CLASS E-1, M-6.5(a)
I-1	308	Lin.Ft.	27" PIPE, CLASS E-1, M-6.6(a)
I-1	3	Lin.Ft.	36" PIPE, CLASS E-1, M-6.6(a)
I-1	24	Lin.Ft.	18" PIPE, CLASS B-1, M-6.6(b)
I-1	36	Lin.Ft.	27" PIPE, CLASS B-1, M-6.6(b)
I-1	66	Lin.Ft.	24"x36" ELLIPTICAL PIPE, CLASS G-1, M-6.7(b)
I-8	2	Each	TYPE "A-A" MANHOLE
I-8	1	Each	TYPE "D-4" MANHOLE
I-10	5	Cu.Yd.	DUMPED ROCK CHANNEL PROTECTION

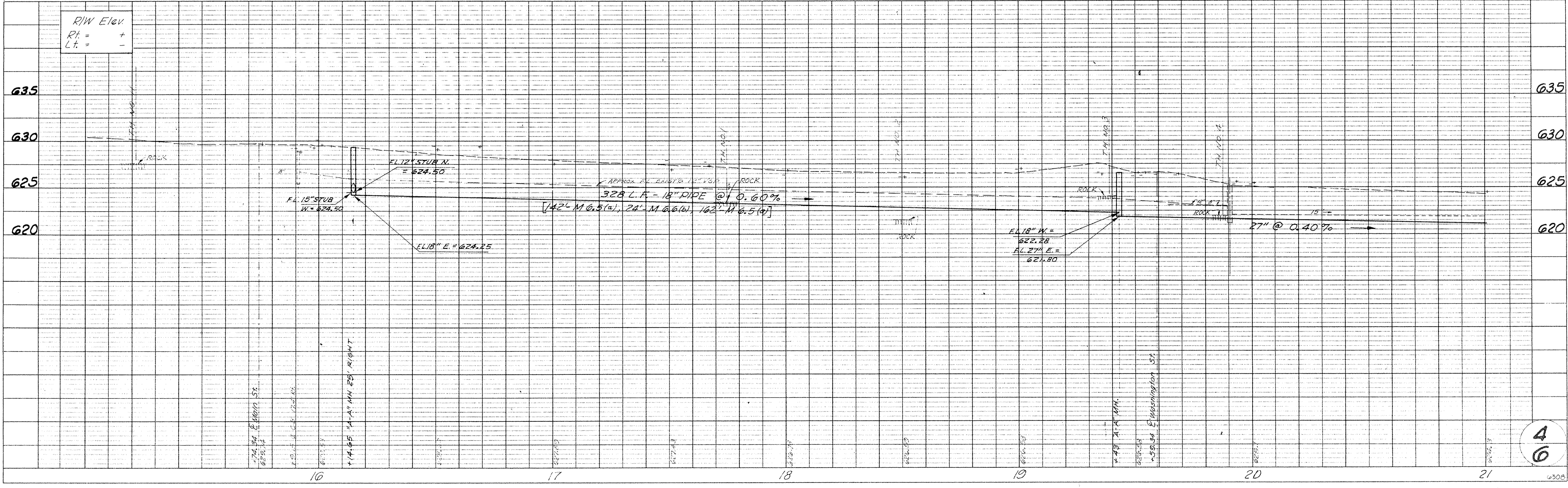
DRAINAGE WORK SCHEDULE															
LOCATION STATION		I-1 PIPE									E-3 DITCH CLEAN- OUT		I-8 TYPE "A-A" "D-4" M.H. M.H.		I-10 DUMPED ROCK CHANNEL PROTECTION
		CLASS E-1			CLASS B-1			CLASS G-1							
		M-6.5(a)		M-6.6(a)		M-6.6(b)		M-6.7(D)		24"x36" ^{3"}					
From	To or At	15" Lin.Ft.	18" Lin.Ft.	27" Lin.Ft.	36" Lin.Ft.	18" Lin.Ft.	27" Lin.Ft.	24"x36" Lin.Ft.	36" Lin.Ft.	66" Lin.Ft.	Lin.Ft.	Each	Each	Cu.Yd.	
SECOND ST.															
16+55	19+43		304						24				2		
19+43	22+84								308				36		
RUNDELL DITCH															
0+11	2+60														3
2+96	12+32														249
12+32	12+98														936
TOTAL		6	304			308	3		24	36	66	1185	2	1	5

REVISED			T.C. BIEBESHEIMER ENGINEERING CO.				3
DATE	BY	CHARACTER	CIVIL ENGINEERS		AND SURVEYORS		
			TOLEDO, OHIO • PORT CLINTON, OHIO				6
DESIGN	DRAWN	CHECKED	COMM. NO.				
			Jes. R.P.	L.H.	23-23-37		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
	NO.	

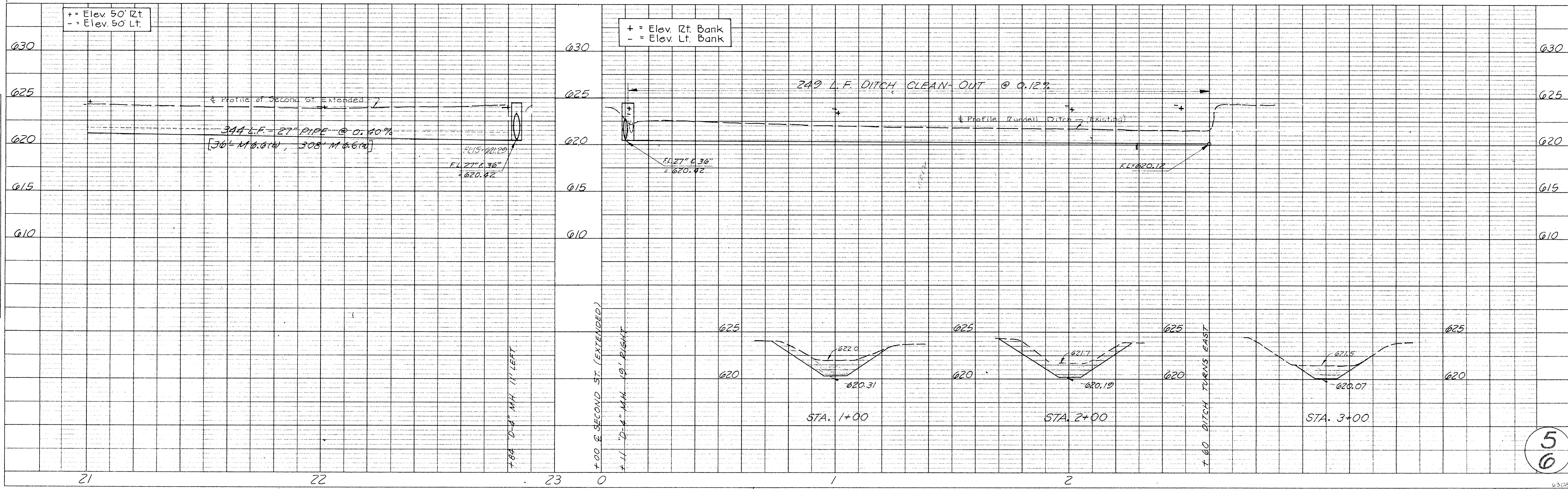
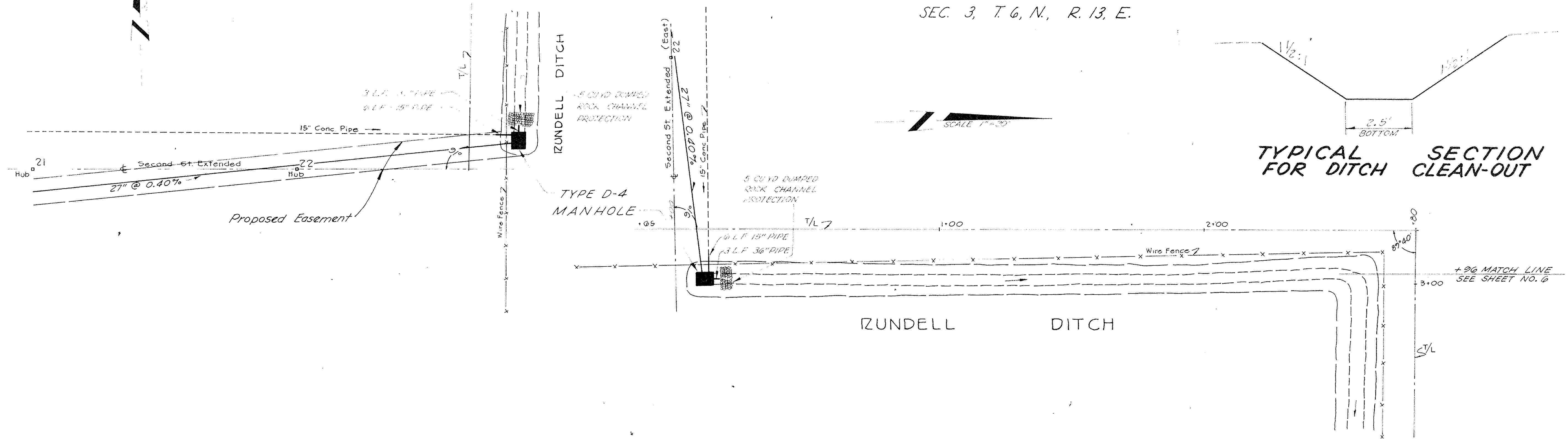


PROF	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



CLAY TOWNSHIP

SEC. 3, T. 6, N., R. 13, E.

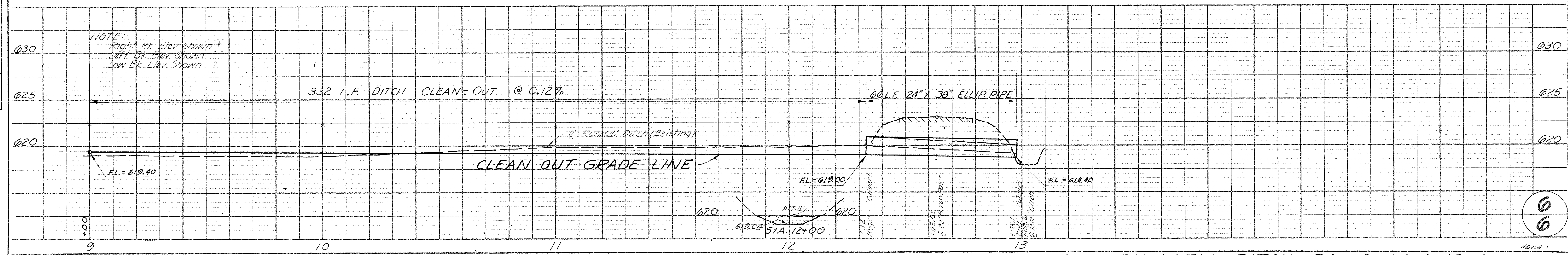
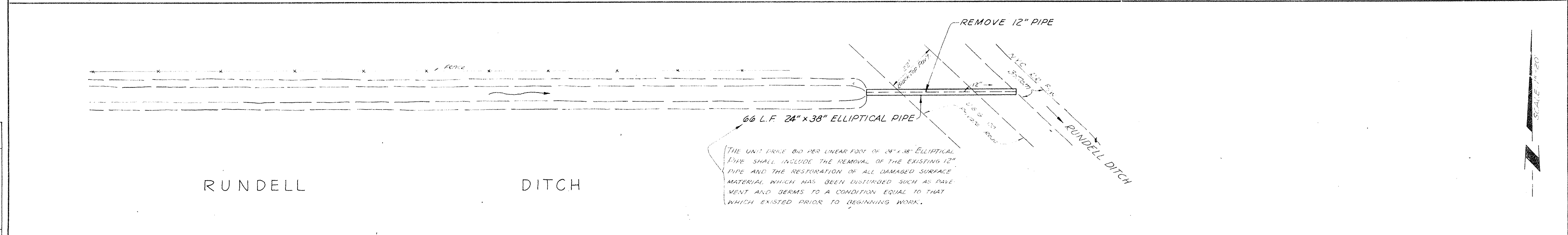
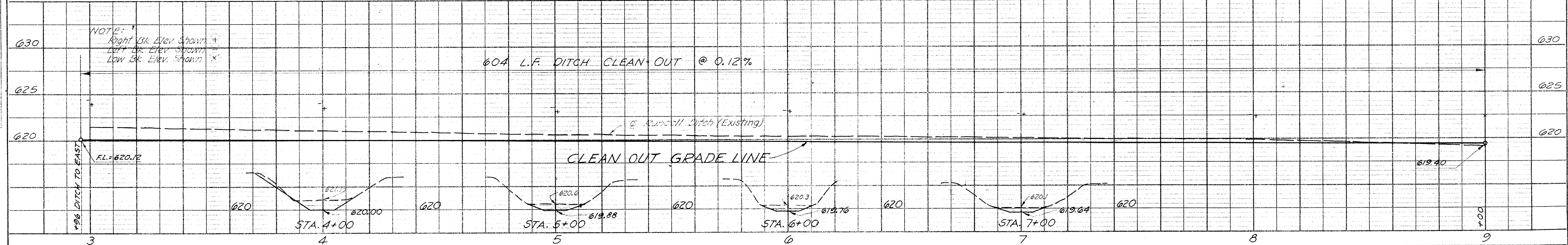
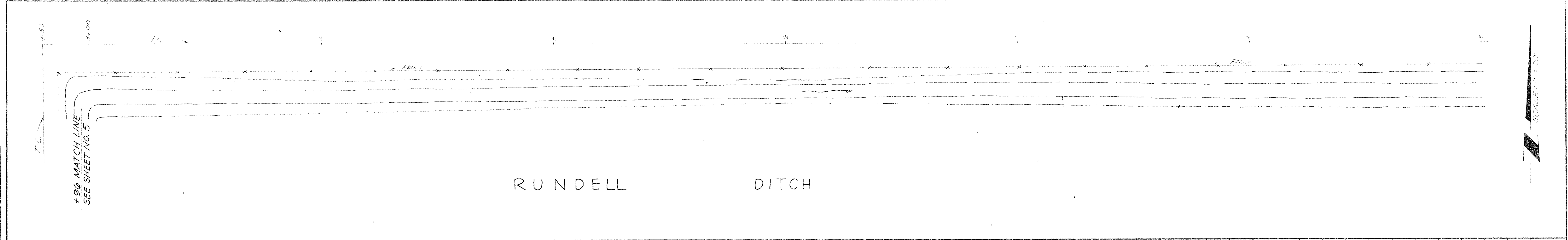


PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.

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SURVEYED
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NOTE BOOK
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DATE	
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BY	
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NO.	



6
6

SECOND STREET AREA TRUNK STORM SEWER

(FROM MAIN ST. TO RUNDALL DITCH)

VILLAGE of GENOA
OTTAWA COUNTY, OHIO

I, Delos J. Nissen, hereby approve these plans and declare that the making of this improvement will necessitate the closing of portions of the rights-of-way in which said improvement is proposed to be constructed, and that detours and access will be provided as necessary.

OTTAWA COUNTY ENGINEER

Delos J. Nissen Date

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Fence Line	—————
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Telephone Poles	⊕ ⊕ ⊕ ⊕
Trees & Stumps	⊗ ⊗ ⊗ ⊗
Trees & Stumps (To Be Removed)	⊗ ⊗ ⊗ ⊗

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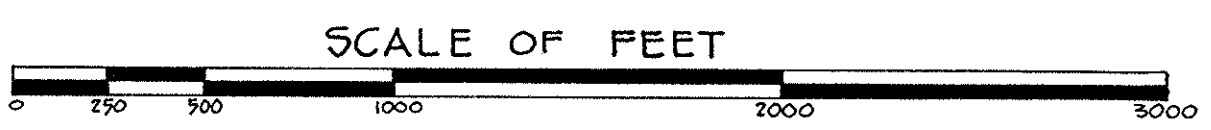
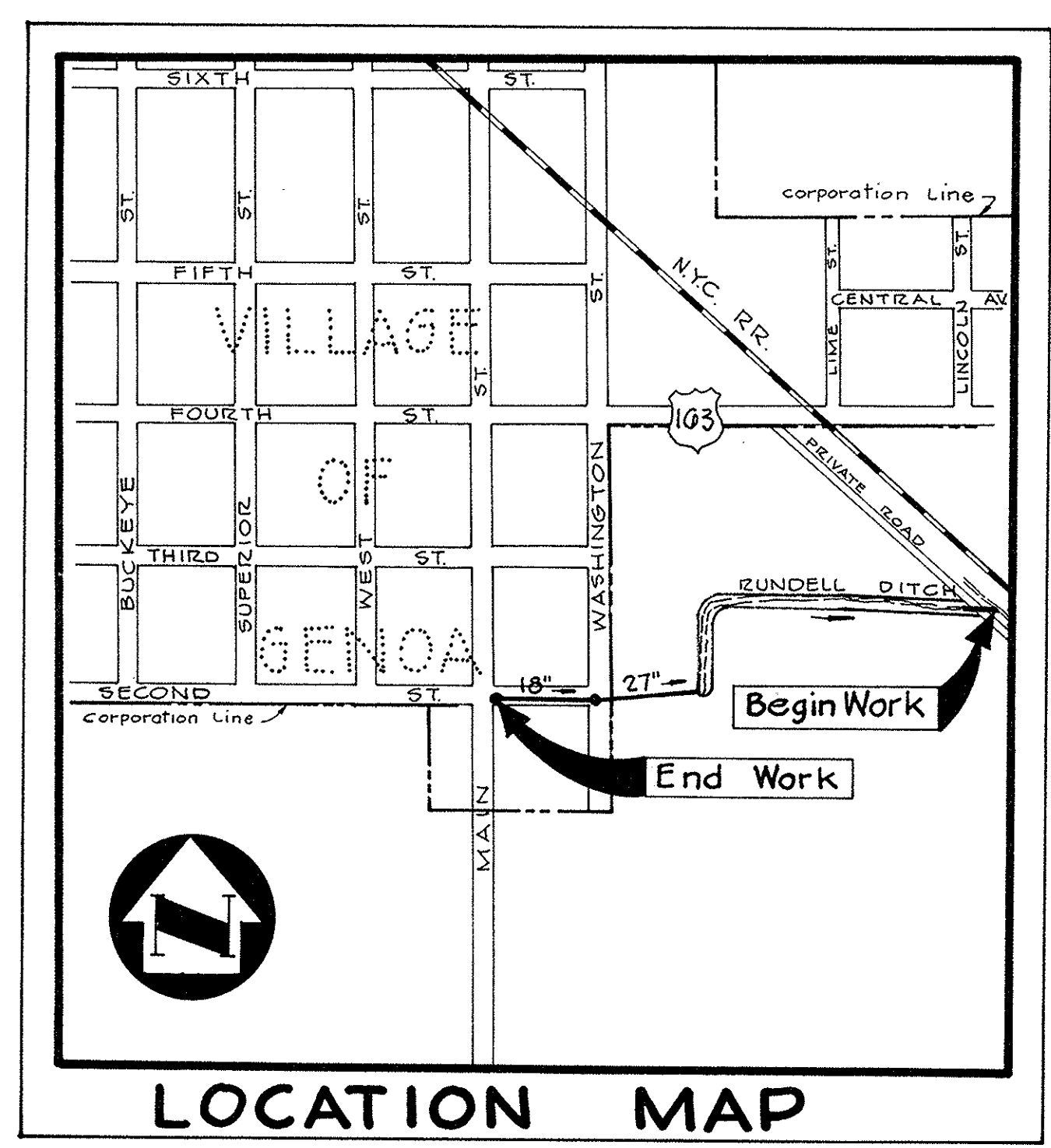
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Drainage Area Map	_____	2
General Notes & General Summary	_____	3
Plan & Profile	_____	4, 5, 6
Standard Drawings	_____	A

STANDARD DRAWINGS

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Elevation = 623.67

SITE B.M. #1 - Top of East Bolt of Hydrant at N.E. Corner of Second St. & Main St. Elevation = 632.03

T. C. BIEBESHEIMER ENGINEERING CO.
CIVIL ENGINEERS AND SURVEYORS
1100 JACKSON ST. • TOLEDO, OHIO

by: T. C. Biebesheimer
REGISTERED PROFESSIONAL ENGINEER

date: June 1963

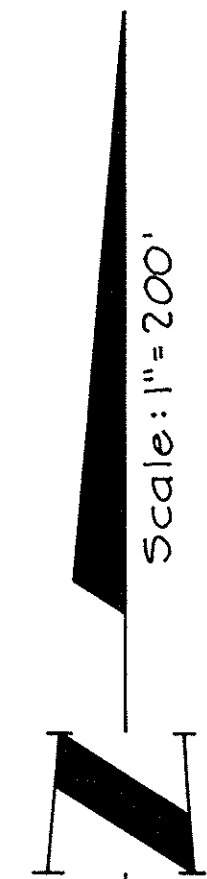
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DRAINAGE AREA MAP

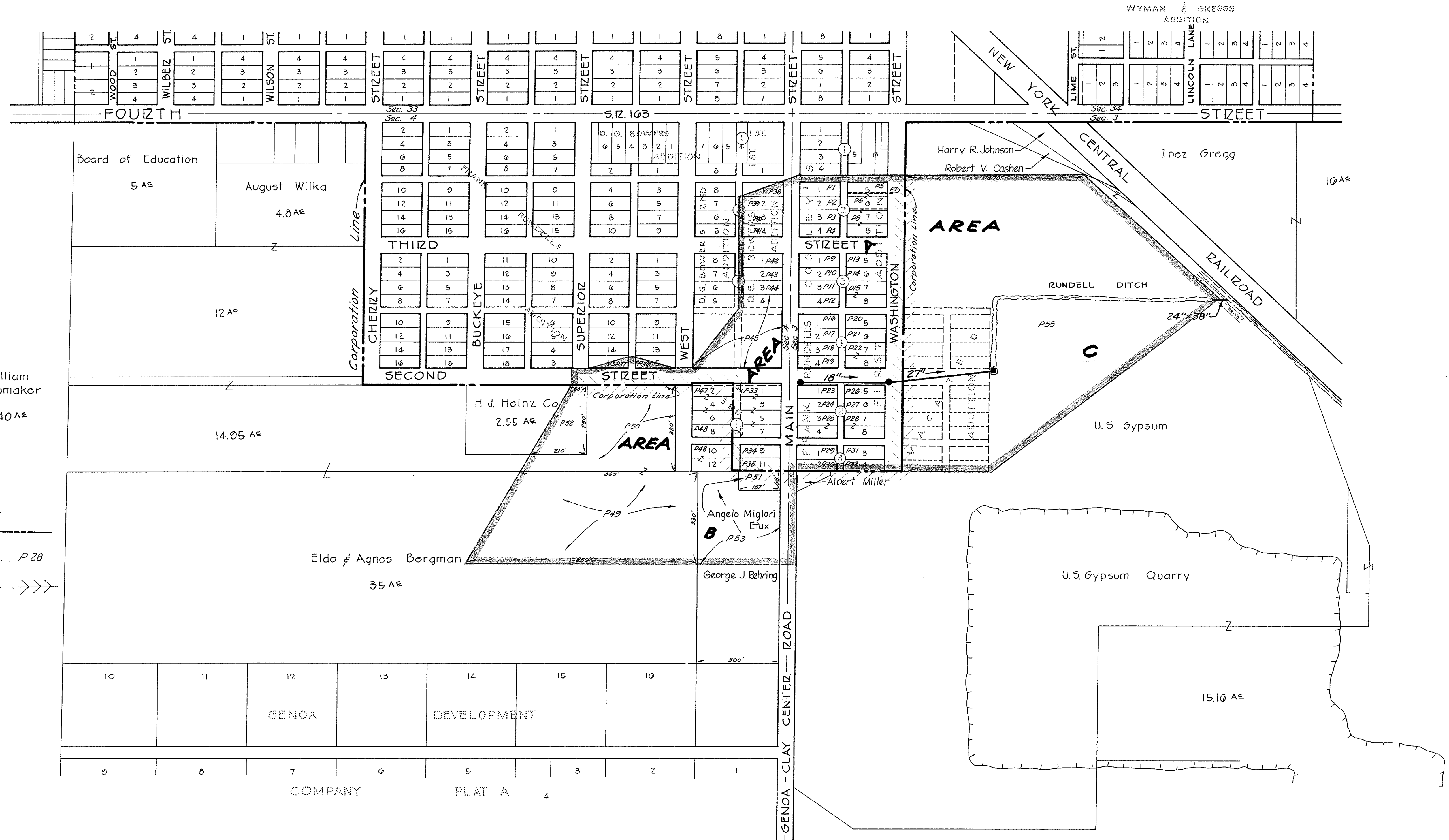
SECOND STREET AREA TRUNK STORM SEWER

GENOA, OHIO

Scale: 1"=200'



LEGEND
 Boundary of Drainage Area.....
 Village Corporation Line.....
 Assessment Area Parcels Shown..... P28
 Sub-Area Boundary.....



REVISED	T.C. BIEBESHEIMER ENGINEERING CO.		2 6
BY DATE CHARACTER	CIVIL ENGINEERS AND SURVEYORS TOLEDO, OHIO • PORT CLINTON, OHIO		
DESIGN	DRAWN	CHECKED	COMM. NO.
	JMK	LEH	0308

GENERAL

NOTES

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FERTILIZER: Commercial Fertilizer (4-12-4) shall be applied to all seeded areas at the rate of 20 pounds per 1000 sq.ft.

All areas and spots that do not show a prompt "catch" shall be reseeded at intervals of 21 days. This shall be continued until a good growth is established over the entire area.

SPECIFICATIONS: All work shall conform to the State of Ohio, Department of Highways, Construction and Material Specifications and Supplements thereto in effect 14 calendar days prior to the receiving of bids and to these plans, profiles, cross-sections and standards and such of the supplementary specifications of the State of Ohio, Department of Highways as are made a part of these plans by reference.

EXISTING SEWERS & DITCHES: The Contractor shall be responsible for maintaining flow in all existing ditches, storm sewers and sanitary sewers at all times during the course of construction.

GRADES: Grades for the tops of all manholes and catch basins which are not specified in these plans will be determined by the Engineer.

DISPOSAL: Any material to be disposed of, which cannot be disposed of on the project to the satisfaction of the Engineer, shall be removed from the site and disposed of at the expense of the Contractor.

CONNECTING EXISTING PIPES: All existing storm drains or tiles which are tributary to the existing sewer or ditch shall be connected to the new sewer pipe in a manner satisfactory to the Engineer. The cost of such connections, unless otherwise noted in the plans, shall be considered paid for in the unit price per linear foot bid for the item to which the pipe connection is made.

Existing drains are shown on the plans, but this information is not guaranteed as to accuracy or completeness.

Where tile or pipe drains extend across or into the improved ditch, such tile or pipe shall be removed from the limits of excavation and the remaining pipe or tile shall be left in such a condition that a satisfactory outlet is provided into the new stream bed. Such removal of pipe or tile and necessary repairs or modifications to existing pipe or tile, shall be considered paid for in the unit price bid per linear foot for Item E-3, Ditch Cleanout.

ROCK: Rock surface elevations from test holes will be found on sheet 4.

PIPE IDENTIFICATION MARKINGS: Pipes shall bear initials or markings indented or stenciled legibly on the barrels for the purpose of indicating the class or specification number of each piece.

PIPE JOINTS: Joints shall conform to the requirements of Section I-1.05.

BACKFILLING: Backfilling shall conform to the requirements of Section I-1.07 and these plans.

CLEANING SITE & RESTORING DAMAGED SURFACES: The Contractor shall, upon completion of backfilling, restore all surface material which has been disturbed, including paving, lawns, drives, sidewalk or fence to a condition equal to that which existed prior to beginning work. The requirements of Section I-1.08 shall be carefully carried out.

Unless otherwise noted in the plans, the cost of removal and replacement of existing surfaces shall be included in the unit price bid for the appropriate size and type of pipe.

UTILITY ADJUSTMENT: Any and all work required for public or private utilities will be done by and at the expense of their respective owners unless otherwise noted on these plans.

All facilities intersecting the line of the project, either above or below the working grade limits, shall be located by the Engineer to the best of his ability, and the Contractor shall be immediately informed of such facilities and their locations.

After the Contractor has been informed of the locations of any facilities, no work shall be performed within fifty (50) feet of said locations unless the Engineer or his duly authorized representative is present at all times when work is being done and such work is proceeding to the satisfaction of the Engineer.

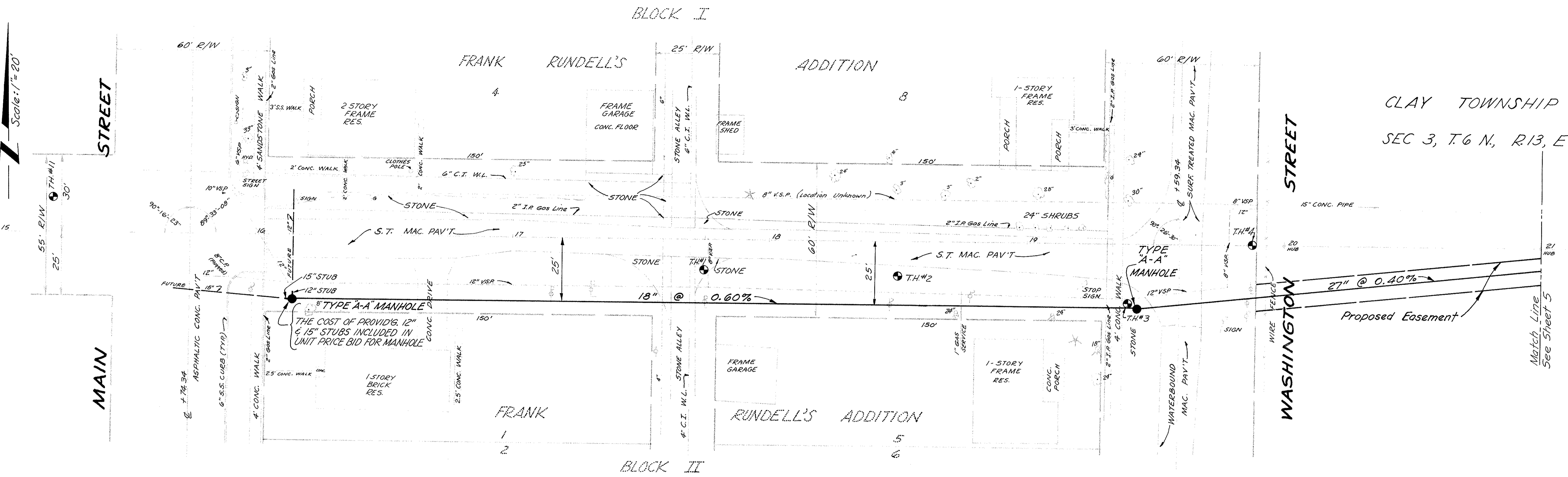
If, for any reason, the Contractor should disrupt or endanger the operation of any facility, all work at the affected location must be stopped until the owner of the said facility has been informed and has been given seven (7) days to accomplish such protection or relocation of the facility as its owner may desire.

GENERAL			SUMMARY
ITEM	QUAN.	UNIT	DESCRIPTION
E-3	1185	Lin.Ft.	DITCH CLEAN-OUT
I-1	6	Lin.Ft.	15" PIPE, CLASS E-1, M-6.5(a)
I-1	304	Lin.Ft.	18" PIPE, CLASS E-1, M-6.5(a)
I-1	308	Lin.Ft.	27" PIPE, CLASS E-1, M-6.6(a)
I-1	3	Lin.Ft.	36" PIPE, CLASS E-1, M-6.6(a)
I-1	24	Lin.Ft.	18" PIPE, CLASS B-1, M-6.6(b)
I-1	36	Lin.Ft.	27" PIPE, CLASS B-1, M-6.6(b)
I-1	66	Lin.Ft.	24"x36" ELLIPTICAL PIPE, CLASS G-1, M-6.7(b)
I-8	2	Each	TYPE "A-A" MANHOLE
I-8	1	Each	TYPE "D-4" MANHOLE
I-10	5	Cu.Yd.	DUMPED ROCK CHANNEL PROTECTION

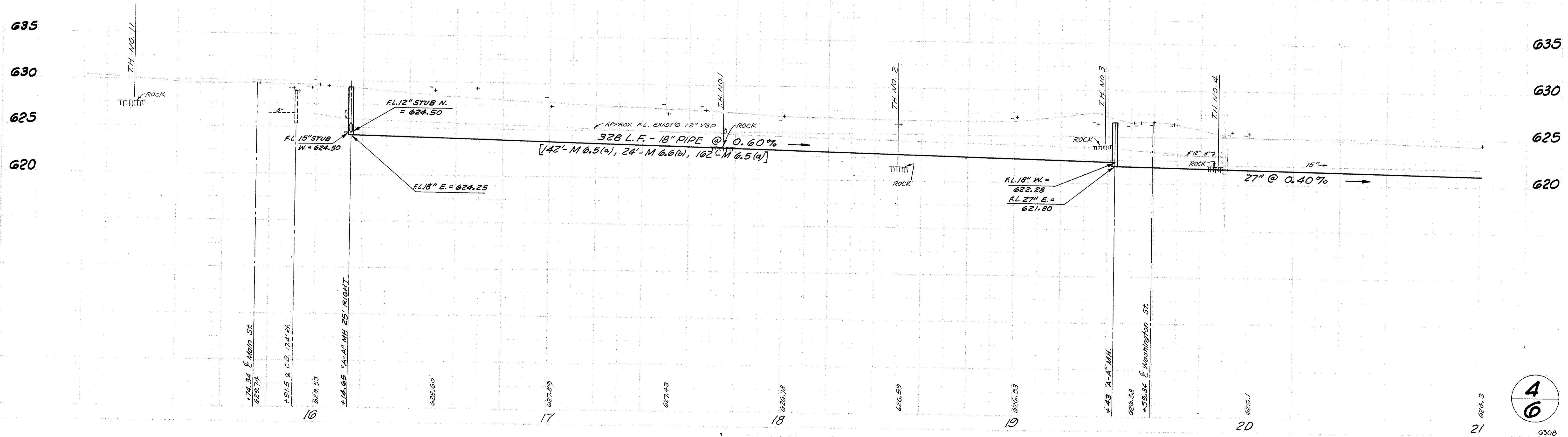
DRAINAGE WORK SCHEDULE

LOCATION STATION	I-1 PIPE									E-3 DITCH CLEAN-OUT	I-8		I-10 DUMPED ROCK CHANNEL PROTECTION
	CLASS E-1			CLASS B-1		CLASS G-1		TYPE "A-A"	TYPE "D-4"				
	M-6.5(a) 15"	M-6.5(a) 18"	M-6.6(a) 27"	M-6.6(a) 36"	M-6.6(b) 18"	M-6.6(b) 27"	M-6.7(D) 24x36"						
From To or At. SECOND ST.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Each	Each	Cu.Yd.		
16+55 19+43		304				24			2				
19+43 22+84	6		308			36			1				
RUNDELL DITCH													
0+11 2+60				3				249			5		
2+96 12+32								936					
12+32 12+98						66							
TOTAL	6	304		308	3	24	36	66	1185	2	1	5	

REVISED	T.C. BIEBESHEIMER ENGINEERING CO.	3		
DATE BY CHARACTER	CIVIL ENGINEERS AND SURVEYORS TOLEDO, OHIO • PORT CLINTON, OHIO			
DESIGN	DRAWN	CHECKED	COMM. NO.	6
	Jco. RVP	L. B. B.	6308-3	

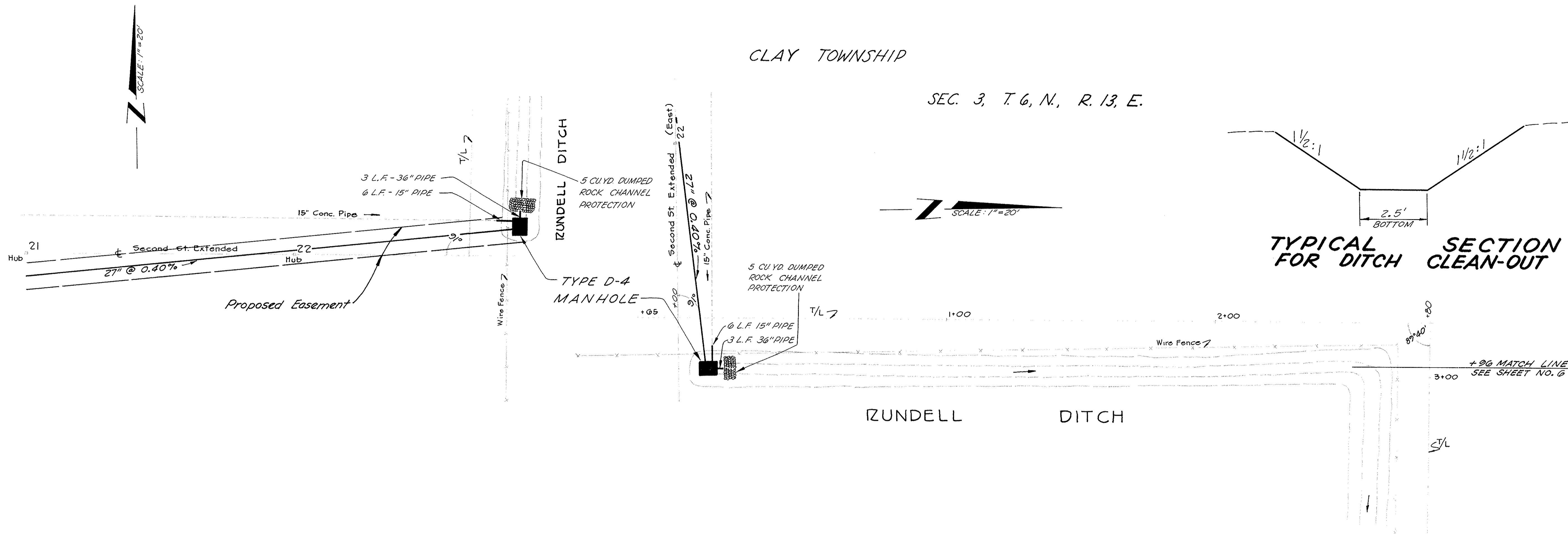


R/W Elev.	
Rt. =	+
Lt. =	-



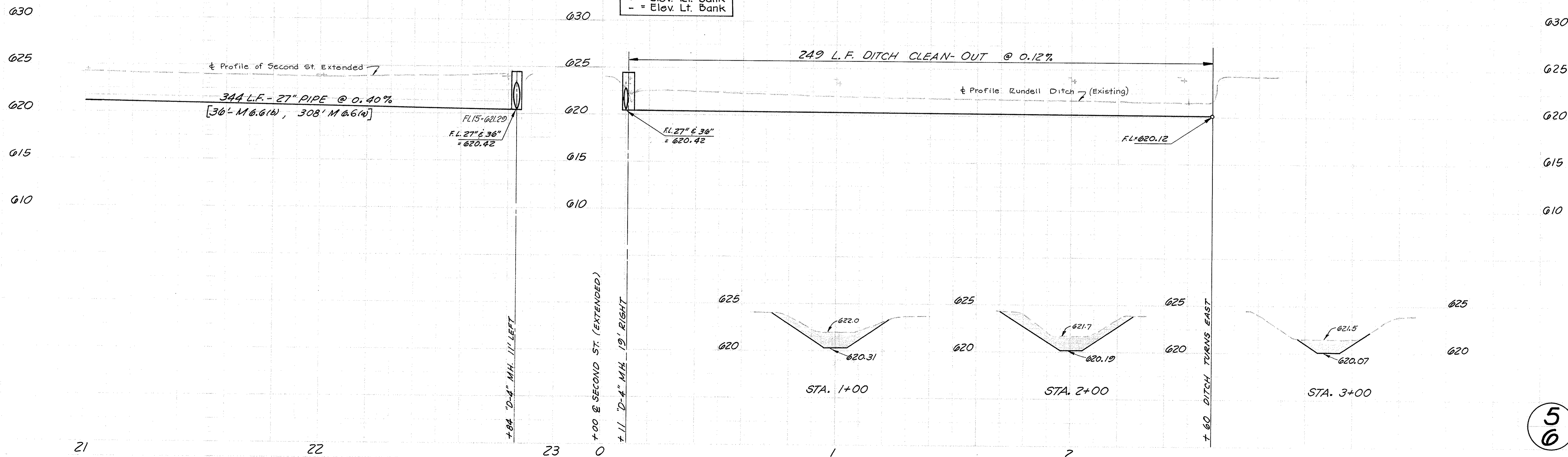
CLAY TOWNSHIP

SEC. 3, T. 6, N., R. 13, E.



+ = Elev. 50' Rt.
- = Elev. 50' Lt.

+ = Elev. Rt. Bank
- = Elev. Lt. Bank

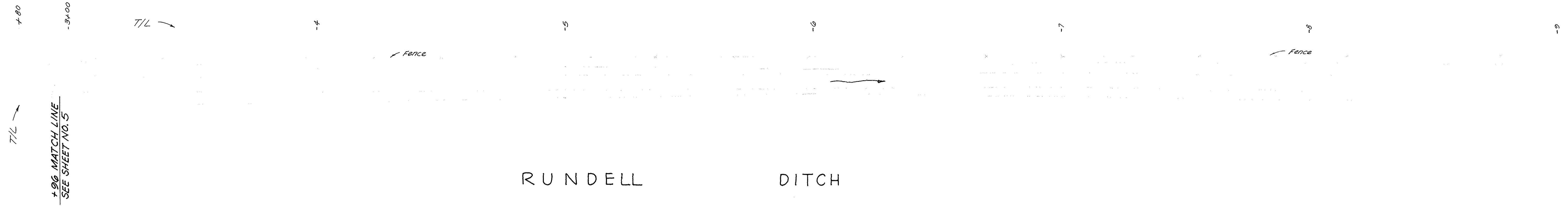


TRUNK SEWER AND RUNDRELL DITCH Sta 0+00 to 2+00

SCALE: 1" = 20'

SCALE: 1" = 20'

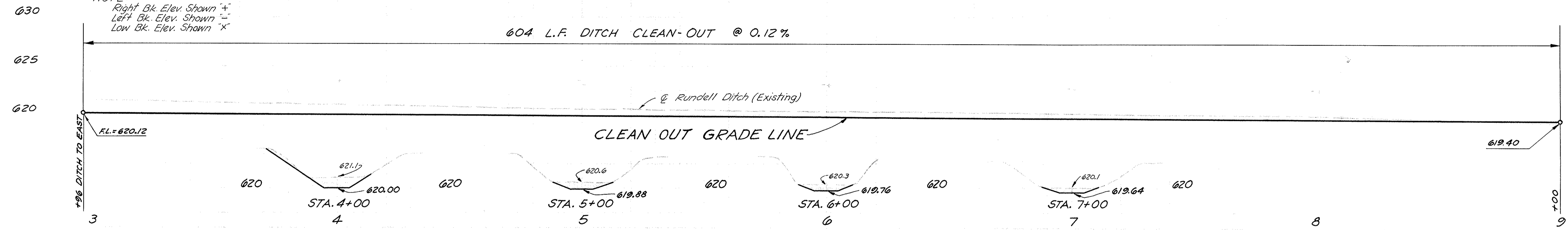
#6308-3



RUNDELL DITCH

NOTE:
 Right Bk. Elev. Shown "+"
 Left Bk. Elev. Shown "-"
 Low Bk. Elev. Shown "x"

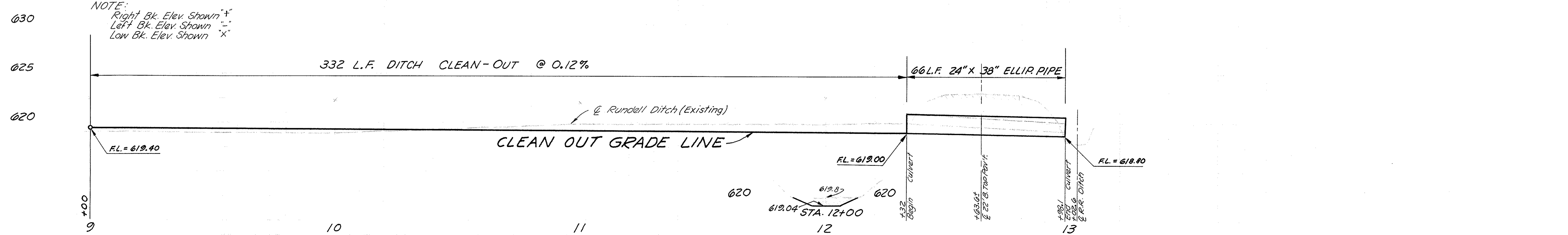
604 L.F. DITCH CLEAN-OUT @ 0.12%



RUNDELL DITCH

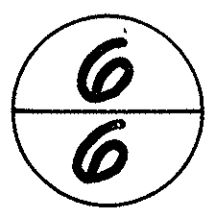
NOTE:
 Right Bk. Elev. Shown "+"
 Left Bk. Elev. Shown "-"
 Low Bk. Elev. Shown "x"

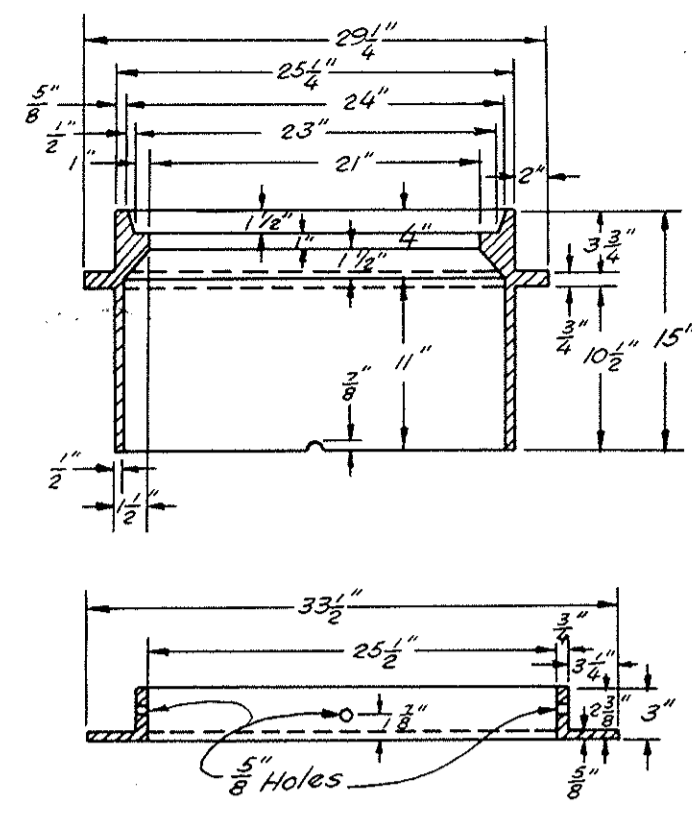
332 L.F. DITCH CLEAN-OUT @ 0.12%



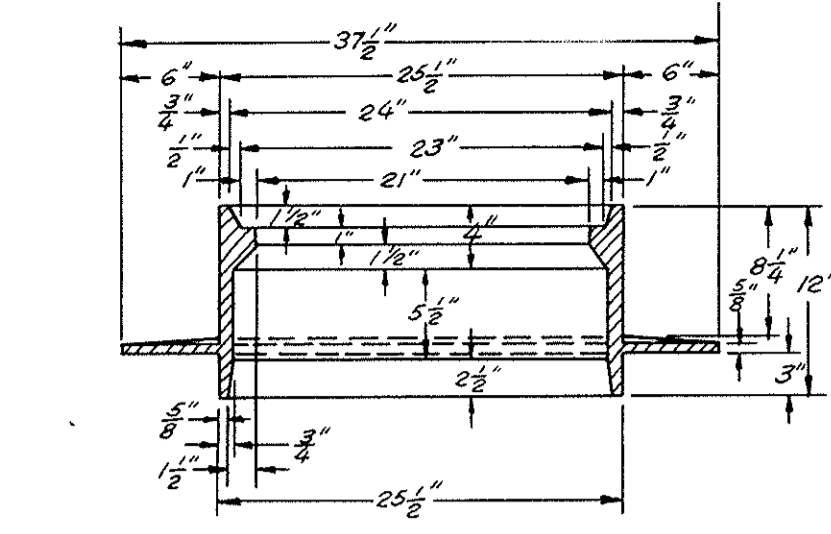
THE UNIT PRICE BID PER LINEAR FOOT OF 24" x 38" ELLIPTICAL PIPE SHALL INCLUDE THE REMOVAL OF THE EXISTING 12" PIPE AND THE RESTORATION OF ALL DAMAGED SURFACE MATERIAL WHICH HAS BEEN DISTURBED SUCH AS PAVEMENT AND BERMS TO A CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO BEGINNING WORK.

RUNDELL DITCH Sta. 2+96 to 13+00

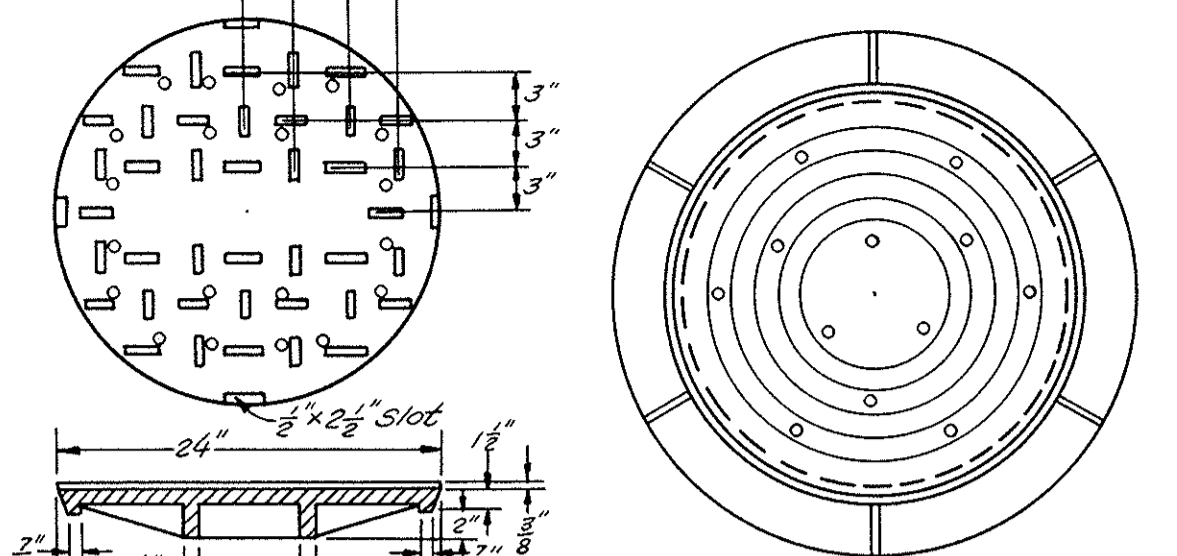




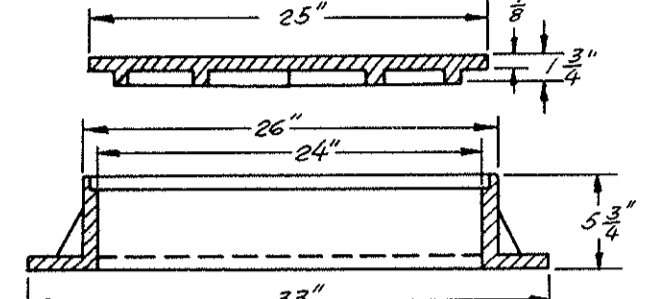
380# FLOATING MANHOLE CASTING
2 PIECES (Alloy Frnds. N^o 69 or Equal)
TYPE "A-C" MANHOLE CASTING
(For use with Rigid Pav't.)



330# MANHOLE RING
TYPE "A-B" MANHOLE CASTING
(For use with Non-Rigid Pav't.)



150# MANHOLE COVER
(For use with Type AB & AC MANHOLE CASTINGS)



270# MANHOLE RING & COVER
(Alloy Frnds. N^o 12 or Equal)
TYPE "A-A" MANHOLE CASTING
(For use outside of Pav't. Areas)

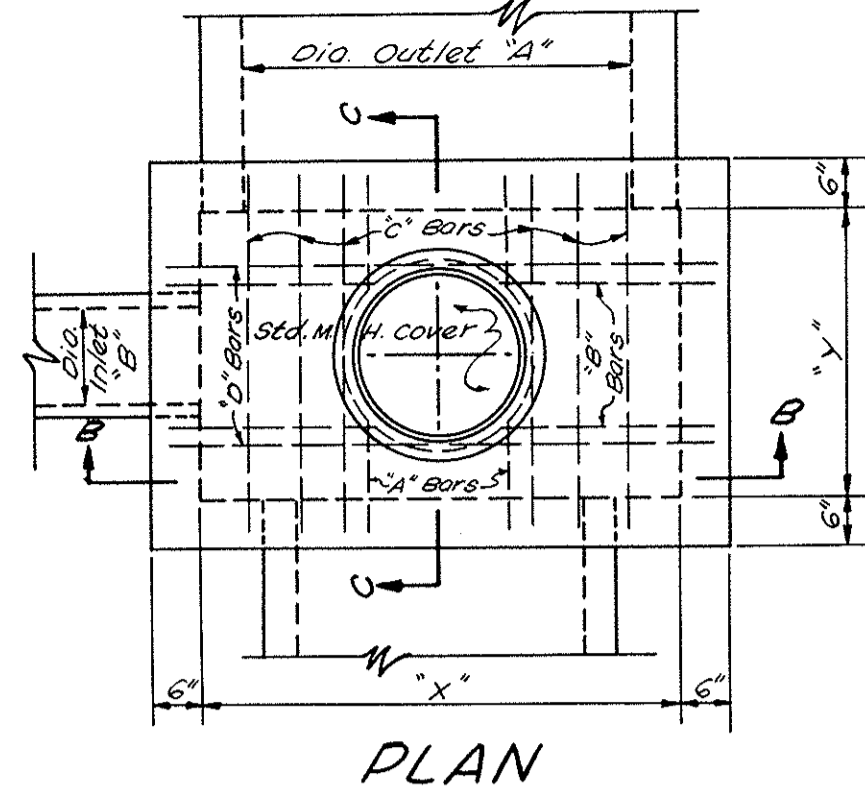
GENERAL NOTES

When Manhole is located in a Rigid Type Pavement - Use Type "A-C" Manhole Top, integral with pavement.
When Manhole is located in a Non-Rigid Pavement - Use Type "A-B" Manhole Ring & Cover as shown.
When Manhole is located outside of Pavement Area - Use Type "A-A" Manhole Ring & Cover.
NOTE: When Manhole is located within the pavement area, backfill material shall be granular & it shall be tamped in place & inundated. Granular Material is to be constructed to mean sand, screenings, gravel, or similar suitable material & is to be approved by the engineer.
When Manhole is located outside of pavement area, earth backfill may be used.

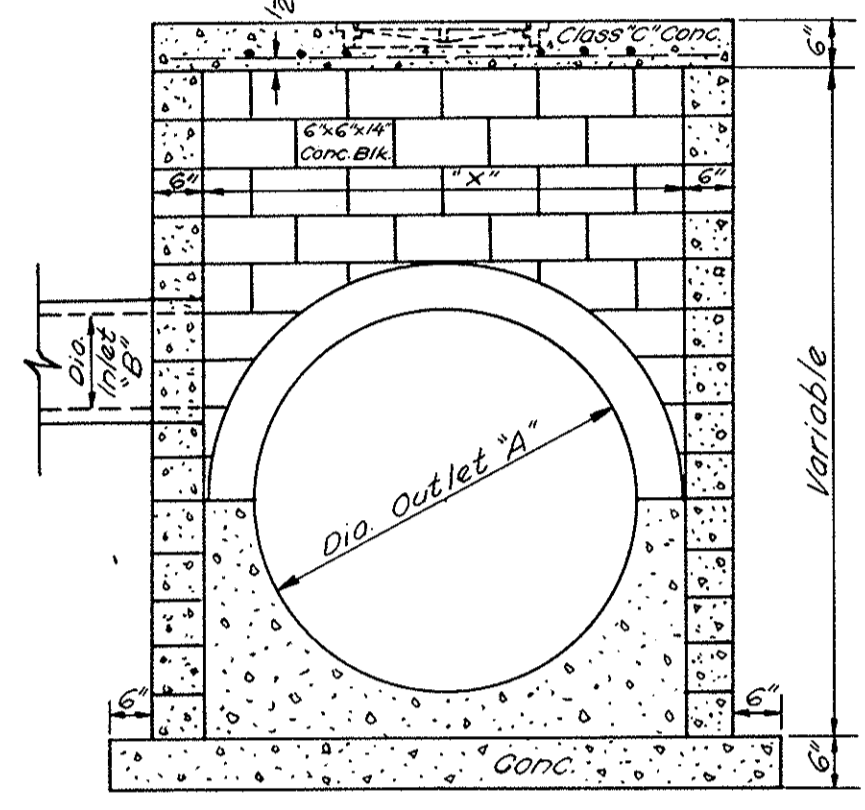
SPECIFICATIONS

All Castings Must -
Meet A.S.T.M. Specification A 48-56.
Be poured in a closed mold & shall be true to pattern.
Be free of blows, porosity, burrs, & other defects & shall not under any circumstances be plugged.
Be of a good grade of machinable grey iron used in commercial castings.
All Bearing bases shall be machined when used in traffic.
All Side ditch or Non-Traffic castings shall be properly fitted.

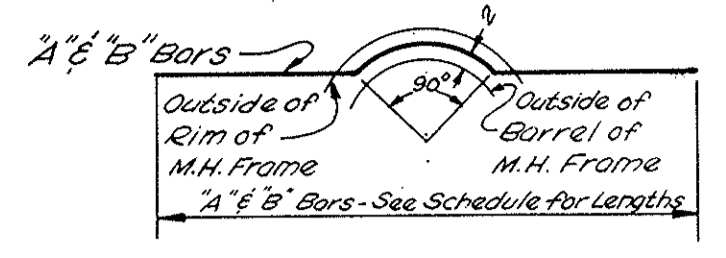
TYPE "A-A," "A-B," & "A-C" MANHOLE CASTINGS & COVERS



PLAN



SEC. B-B



BENDING DIAGRAM

CONCRETE
Concrete shall contain a minimum of 5.5 sacks of cement per cubic yard and a maximum of 6.75 gallons of water per sack of cement. Aggregate shall conform to Tentative Specifications for Concrete Aggregates, ASTM C 33, and shall be so proportioned as to provide a mixture which will work readily into all corners and angles. Maximum size of coarse aggregate shall be 2 inches. The quantity of aggregate passing the No. 4 sieve shall not be less than 35% by weight, nor more than 50% of the total weight of aggregate.

• SEE NOTE BELOW

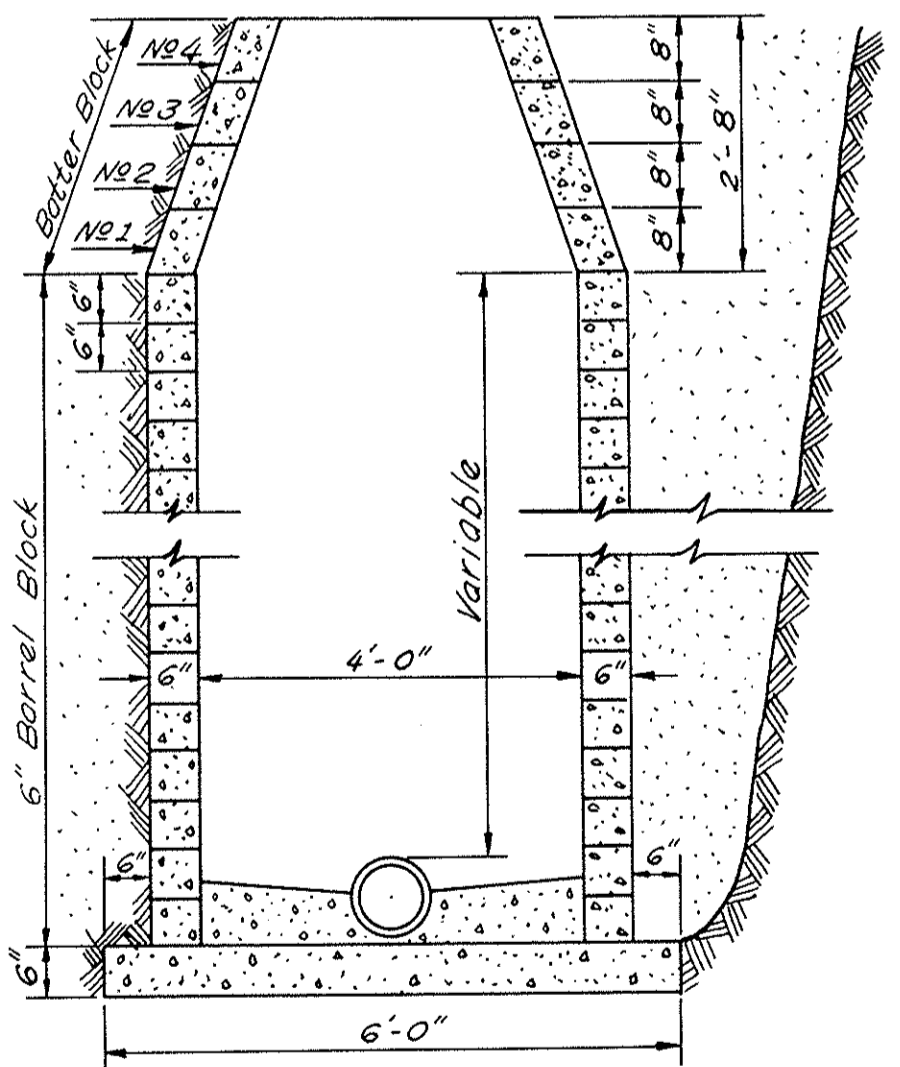
SIZES FOR D-1 TO D-14 M.H.

SIZE OF BASIN		"A" & "B" BARS		"C" & "D" BARS		NO. OF BARS		MANHOLE TYPE			
A	X	B	Y	"A" LGTH	"B" LGTH	"C" LGTH	"D" LGTH	PER FT. OF HEIGHT			
42	4-2	Under 33	3-0	3-10	5-0	4	3-10	0	5-0	28	D-1
"	"	33-36	4-2	5-0	5-0	4	5-0	4	5-0	32	D-2
48-54	5-4	Under 33	3-0	3-10	6-2	6	3-10	0	6-2	32	D-3
"	"	33-36	4-2	5-0	6-2	6	5-0	4	6-2	36	D-4
"	"	39-42	5-4	6-2	6-2	6	6-2	6	6-2	40	D-5
60-66	6-6	Under 33	3-0	3-10	7-4	8	3-10	0	7-4	36	D-6
"	"	33-36	4-2	5-0	7-4	8	5-0	4	7-4	40	D-7
"	"	39-42	5-4	6-2	7-4	8	6-2	6	7-4	44	D-8
72-78	7-8	Under 33	3-0	3-10	8-6	10	3-10	0	8-6	40	D-9
"	"	33-36	4-2	5-0	8-6	10	5-0	4	8-6	44	D-10
"	"	39-42	5-4	6-2	8-6	10	6-2	6	8-6	48	D-11
"	"	Under 33	3-0	3-10	8-6	10	7-4	8	8-6	52	D-12
"	"	33-36	4-2	5-0	8-6	10	8-6	10	8-6	56	D-13
"	"	39-42	5-4	6-2	8-6	10	8-6	10	8-6	56	D-14

• NOTE: Where Y dimension or shortest span is over 4'-0" and under 6'-0" use #6 Bars. Where Y dimension or shortest span is over 6'-0" use #8 Bars.

NOTE: Type A-A or A-B or A-C casting shall be used. Selection of type shall be determined by location of structure as referred to on standard drawing for castings mentioned.

TYPE D-1 TO D-14 CONCRETE BLOCK MANHOLE



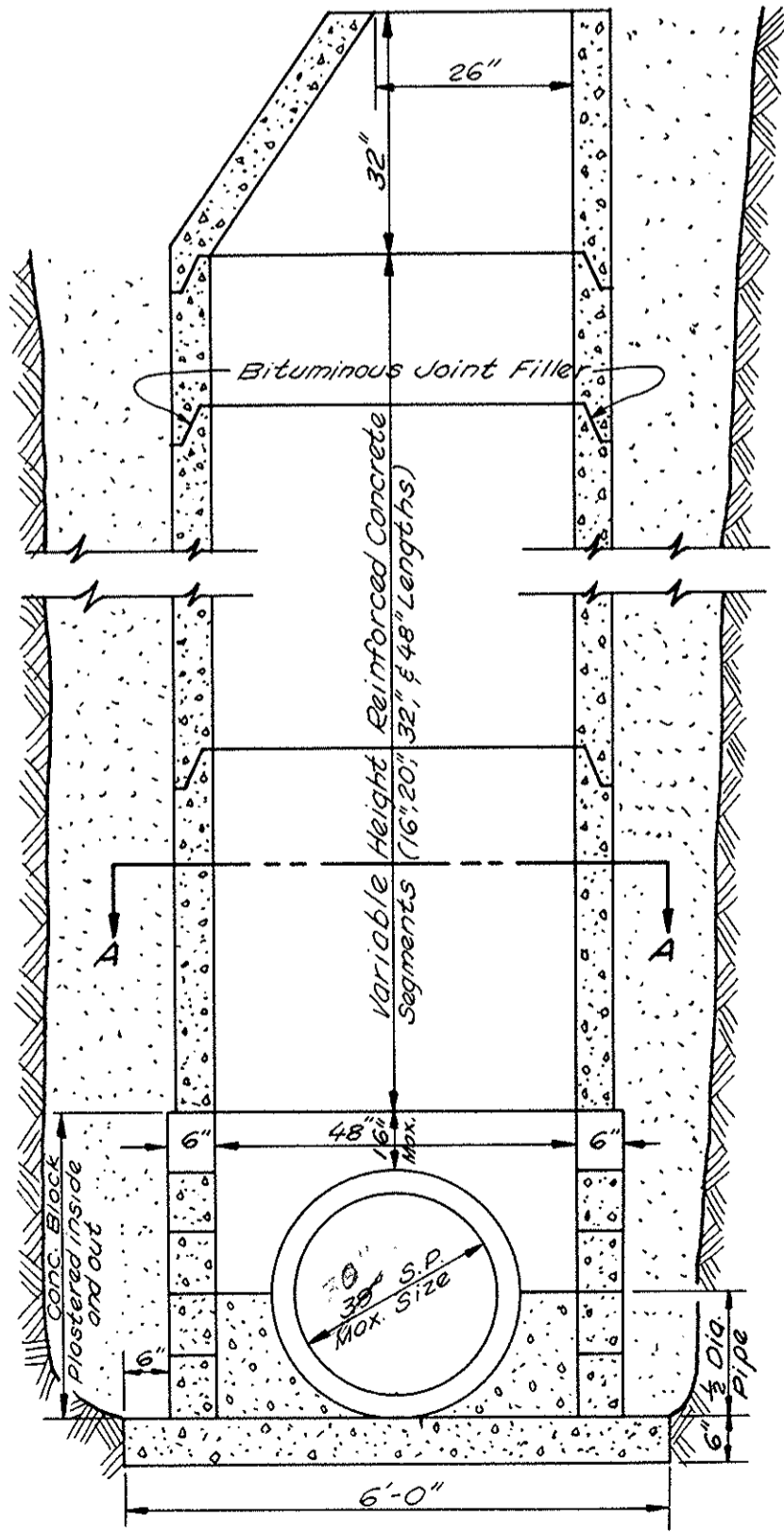
CONCRETE: Concrete shall contain a minimum of 5.5 sacks of cement per cubic yard, and a maximum of 6.75 gallons of water per sack of cement. Aggregate shall conform to Tentative Specifications for Concrete Aggregates, ASTM C 33, and shall be so proportioned as to provide a mixture which will work readily into all corners and angles. Maximum size of coarse aggregate shall be 2 inches. The quantity of aggregate passing the No. 4 sieve shall not be less than 35% by weight, nor more than 50% of the total weight of aggregate.

CONCRETE BLOCK REQUIRED:
N^o 1 Better Block = 10
N^o 2 " " = 9
N^o 3 " " = 8
N^o 4 " " = 8
Barrel Block = 12 per course

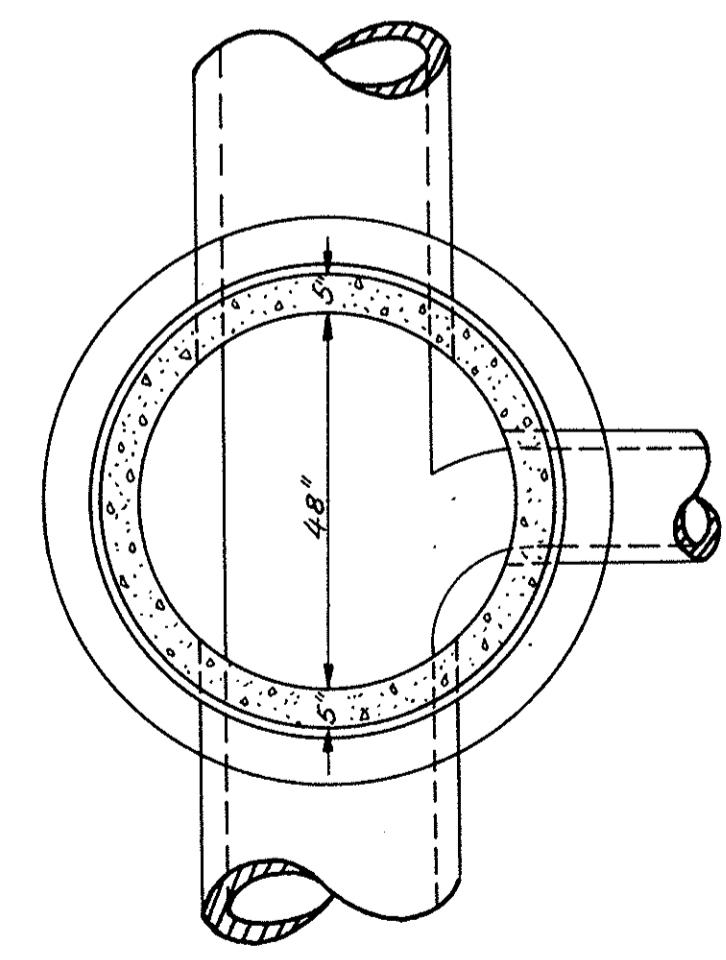
MORTAR REQUIRED:
2 Cu. Ft. Cement per 100 block.
4 Cu. Ft. Sand " " "

MATERIAL REQUIREMENTS

TYPE "A-A," "A-B," & "A-C" CONCRETE BLOCK MANHOLE

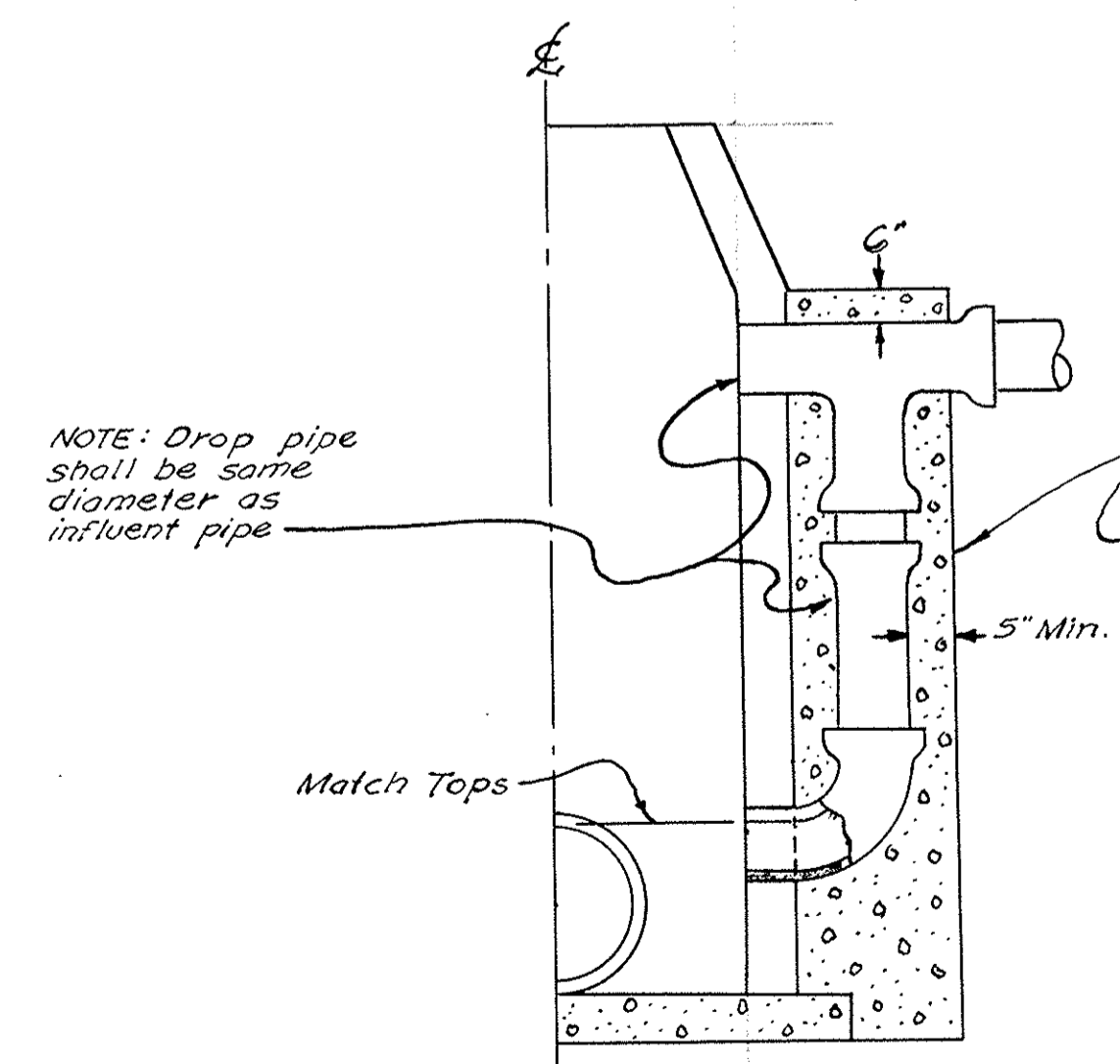


NOTE: Type A-A, A-B, or A-C casting shall be used. Selection of type shall be determined by location of structure as referred to on standard drawing for castings mentioned.



SEC. A-A

TYPE "B-1" PRECAST, REINFORCED CONCRETE SECTIONAL MANHOLE



NOTE: Drop pipe shall be same diameter as influent pipe.

Concrete shall conform to requirement for concrete in base of Type "A-A," "A-B" or "A-C" Manhole. (See detail on this sheet)

TYPE "A-A," "A-B," "A-C" or "B-1" DROP MANHOLE CONCRETE BLOCK OR PRECAST REINFORCED CONCRETE SECTIONAL MANHOLE

REVISED	T.C. BIEBESHEIMER ENGINEERING CO.			
DATE	BY	CHARACTER	CIVIL ENGINEERS & SURVEYORS TOLEDO, OHIO • PORT CLINTON, OHIO	
			DRAWN	DESIGN
			J.T.B.	D.C.C.
			11-6-57	3-11-58
			CHECKED	COMM. NO.

STANDARD MANHOLES