

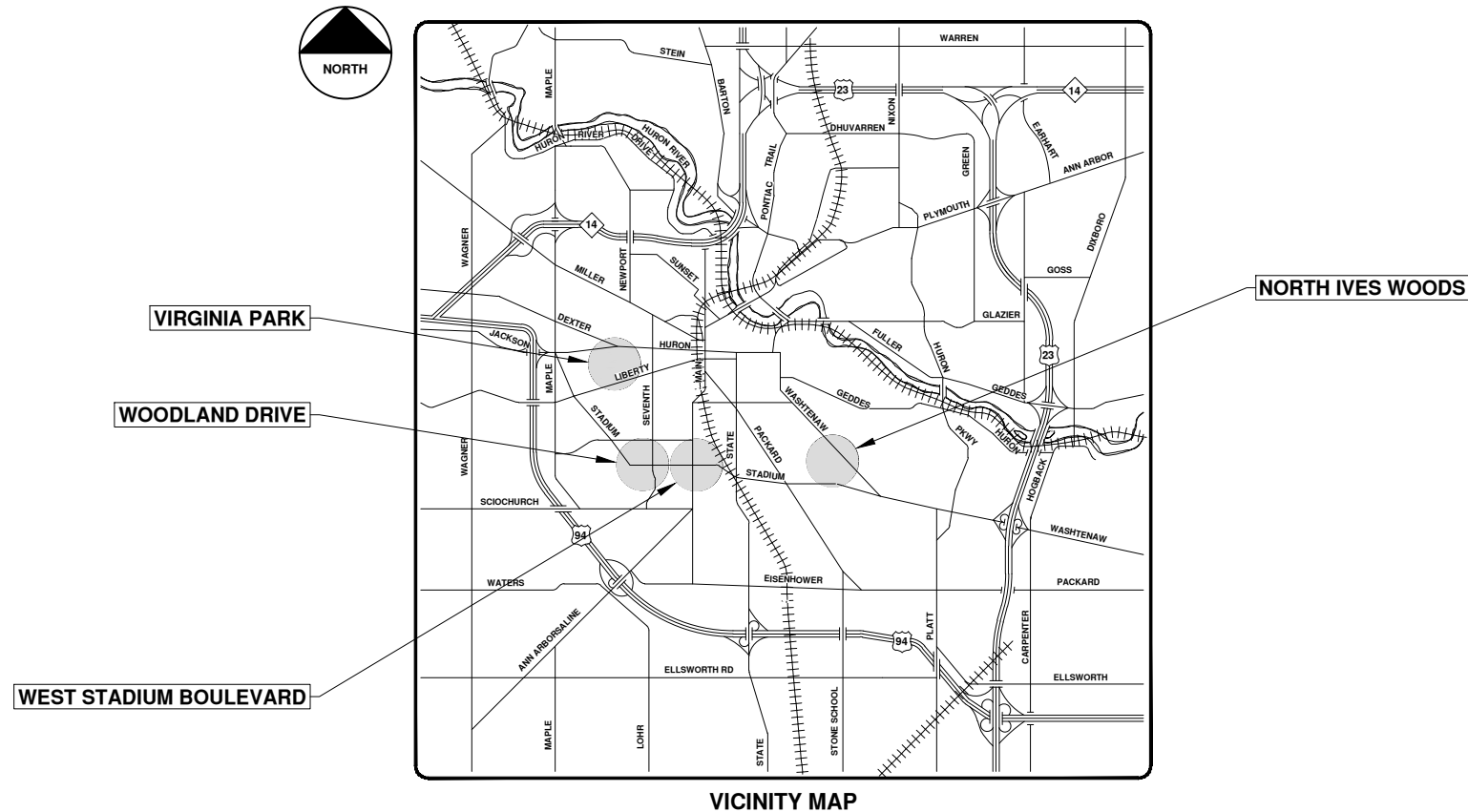


CITY OF ANN ARBOR PROJECT MANAGEMENT

2016 SANITARY SEWER LINING

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2-17	VIRGINIA PARK
18-19	WOODLAND DRIVE
20-21	WEST STADIUM BOULEVARD
22-30	NORTH IVES WOODS

BID No. BID NO, FILE No. 2015040



NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

PROJECT MANAGEMENT SERVICE UNIT

PREPARED UNDER THE SUPERVISION OF

Jennifer A. Nelson
 JENNIFER A. NELSON, P.E. - MI LICENSE No. 48125
 PROJECT MANAGER

3/29/2016
 DATE

811 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	4-8-16	DPF	JEN

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-1007
 ANN ARBOR 734.764.5410
 www.aagov.org

CITY OF ANN ARBOR MICHIGAN

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE

DRAWING No. 2015040-1

SHEET No. 1 OF 30

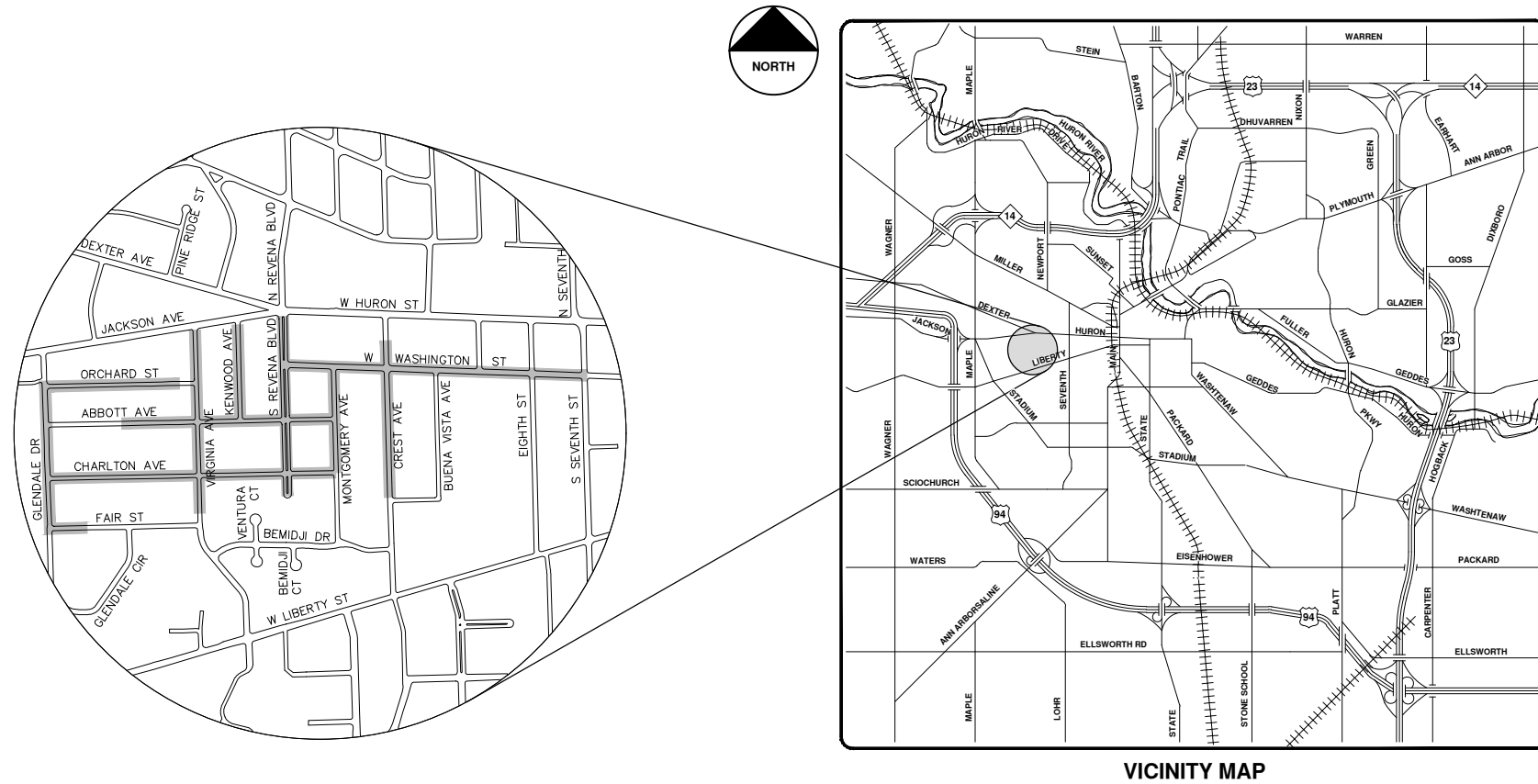
© 2016 SANITARY SEWER LINING; BID No. BID NO; 2015040

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2016 SANITARY SEWER LINING

VIRGINIA PARK



VICINITY MAP

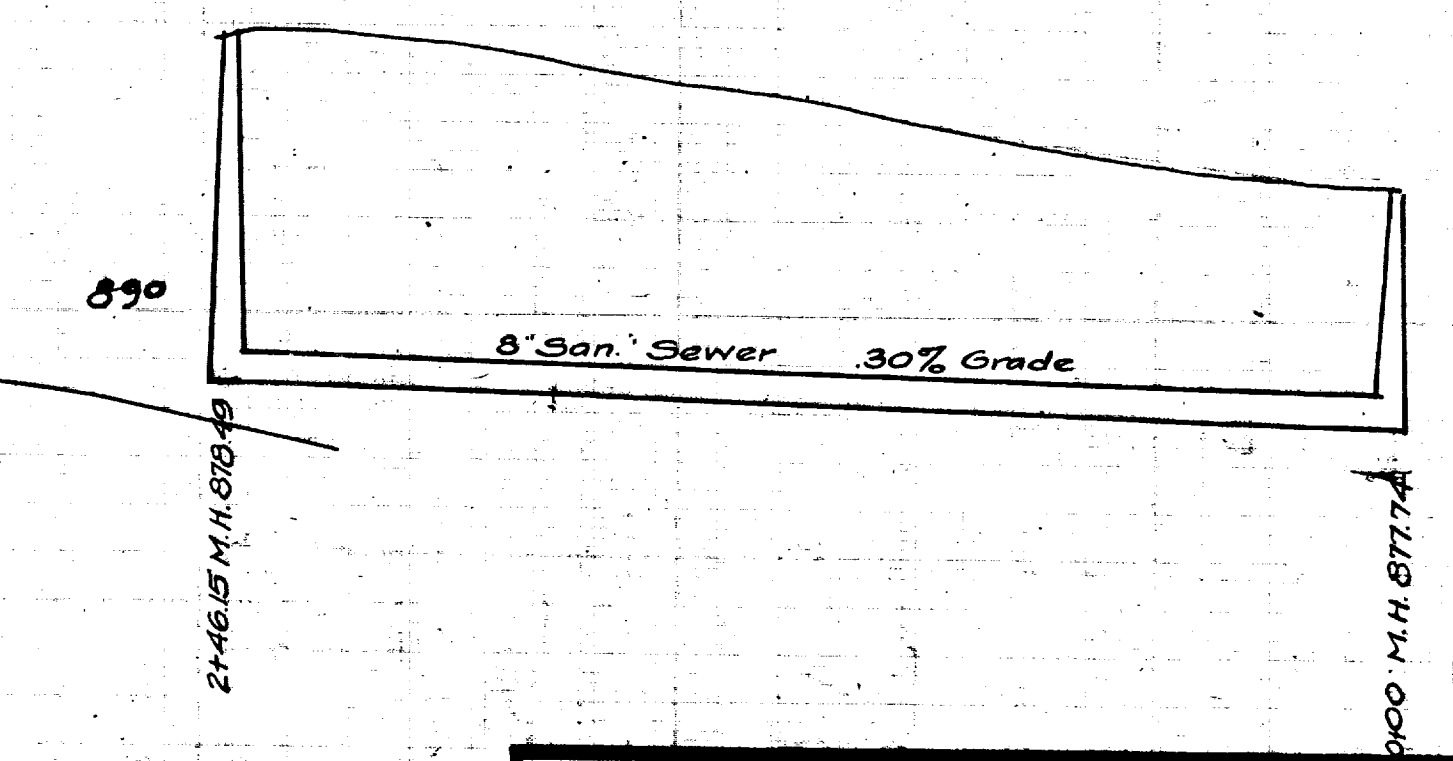
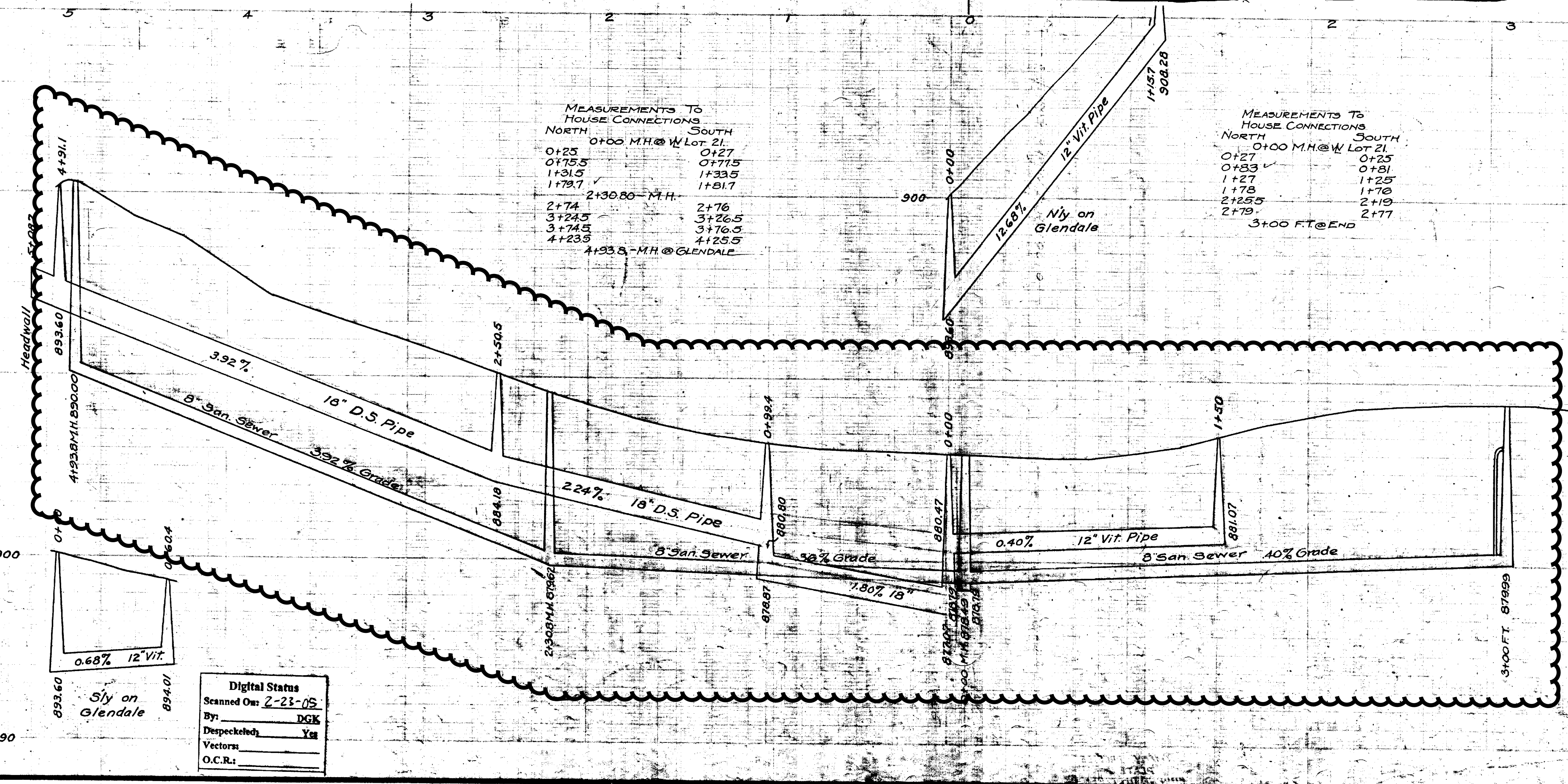
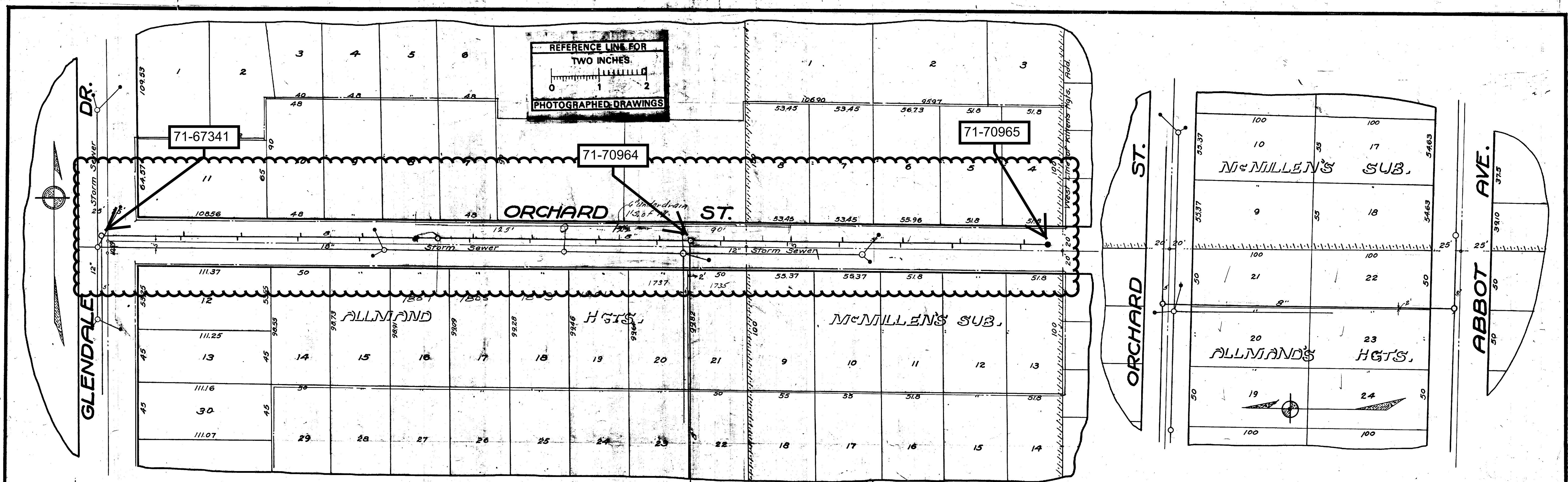
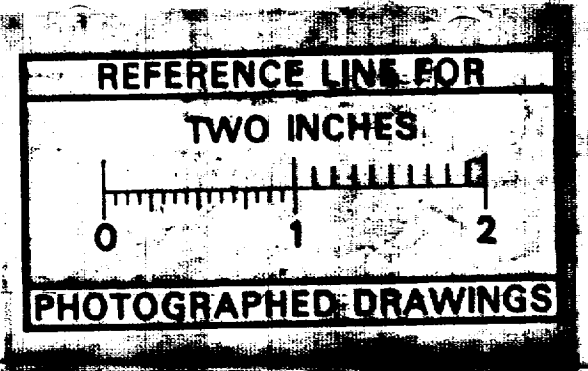
S:\Project Management\Drafting\autocad\2015040\2015040Cov.dwg - _c2 standard bw.stb - Plot Date: 4/8/2016 3:16:54 PM



PROJECT MANAGEMENT SERVICES UNIT
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

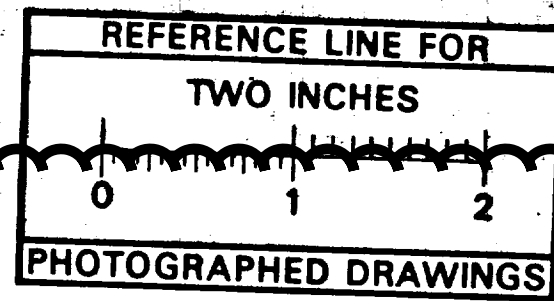
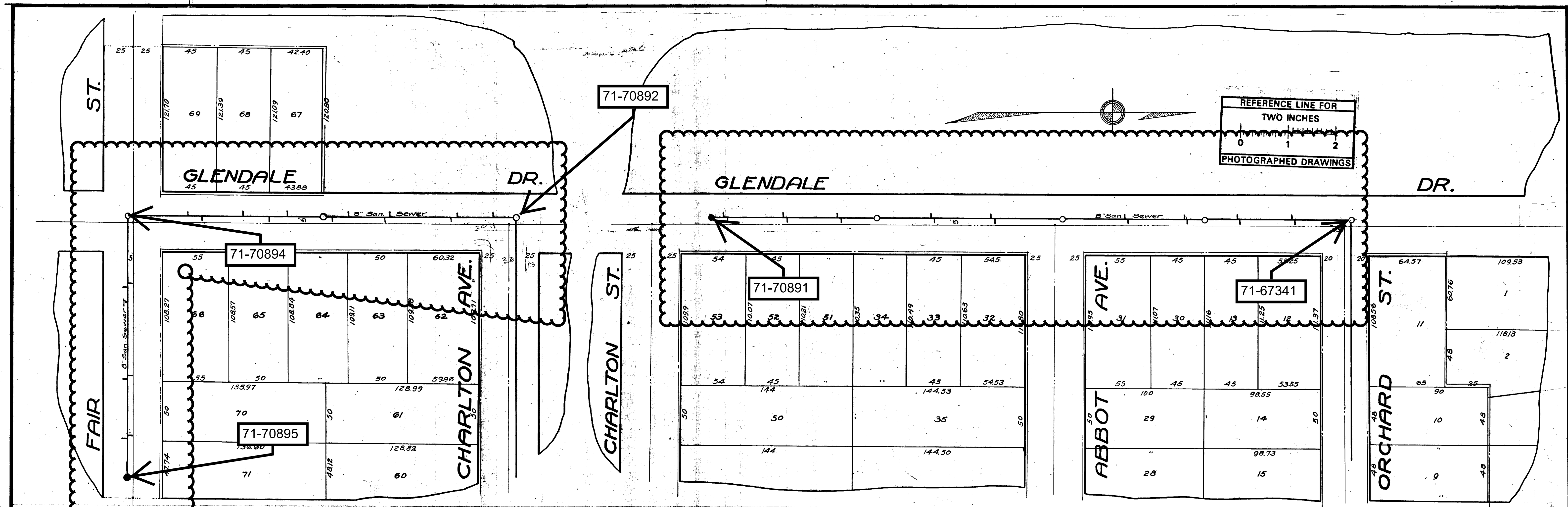
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2015040-2	OUT FOR BID	00
SHEET No.	4-8-16	DATE	4-8-16
2 OF 30	JEN	DRAWN	CHECKED





Digital Status
Scanned On: 2-23-08
By: DSK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No.	CITY ENGINEERS OFFICE
INDEX No. 1832	ANN ARBOR, MICH.
SHELF No. 6	PLAN AND PROFILE
SIZE C	OF
SUB. No. 680	SANITARY SEWER AND STORM SEWER
	ORCHARD ST.
	West Line Killias Hgts. to Glendale Dr.
Drawn by	District No. 130
Traced by VWM.	Geo. H. Sandenburgh City Engineer
Checked by	1929-1-7
Approved by	Scale: Plan 1" = 40' Profile Vert. 15'



MEASUREMENTS TO HOUSE CONNECTIONS ON GLENDALE EAST

WEST	0+00 M.H. @ Charlton	EAST	54.00
	19.00		54.00
	33.25		100.00
	140.00		124.50
	160.70 M.H.		207.50
	191.00		264.00
	228.00		
	275.00		
	3+25.20 M.H. @ Fair		

MEASUREMENTS TO HOUSE CONNECTIONS ON GLENDALE EAST

WEST	0+00 M.H. @ Orchard St.	EAST	46.00
	48.00		93.00
	95.00		140.00
	1+23.50 - M.H.		138.00
	180.30		188.30
	2+41.60 - M.H. @ Abbott		300.00
	302.00		351.50
	353.50		4+00 - M.H.
	400.00		400.00
	471.50		475.50
	528.00		528.00
	5+38.80 - FT. @ End.		

MEASUREMENTS TO HOUSE CONNECTIONS ON FAIR ST.

NORTH	0+00 M.H. @ Glendale	SOUTH	57.50
	33.50		135.50
	133.50		183.50
	183.50		2+20.60 FT. @ End.

SHEET No. 1831
INDEX No. 6
SHELF No. 6
SIZE C
SUB No. 672

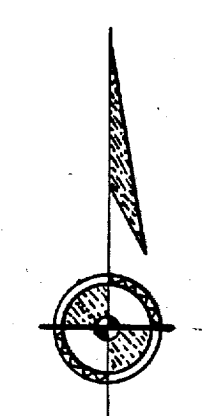
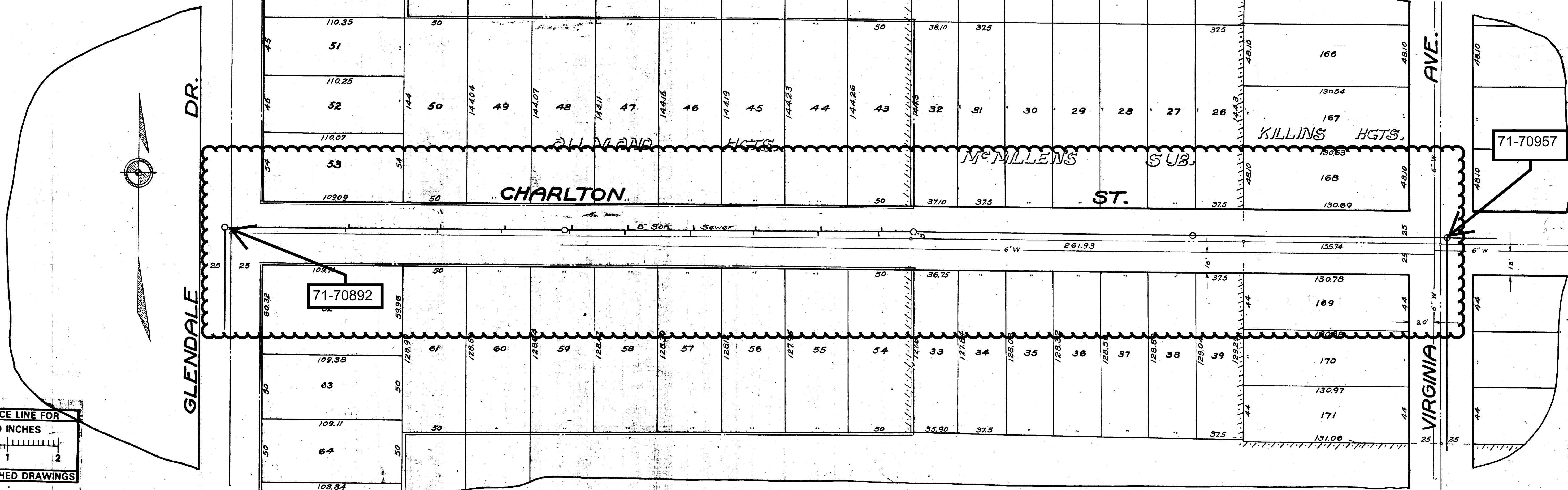
Drawn by
Traced by VM.
Checked by
Approved by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
GLENDALE DR.

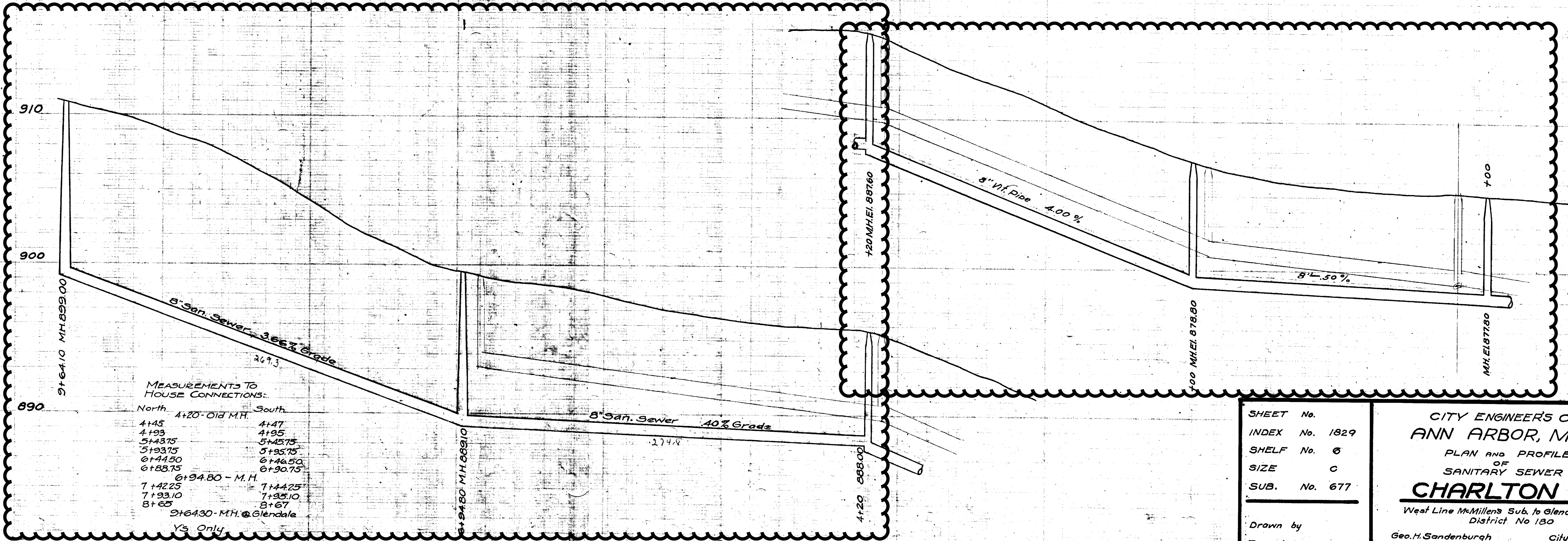
Orchard St. to Fair St.
FAIR ST.
Glendale Dr., Ely
Geo. H. Sandenburgh City Engineer
1929-2-11
Dist. No. 180.
Scales: - Plan 1"=40' Profile Vert. 1"=4'

Digital Status
Scanned On: 2-23-05
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

172 3/12/49



REFERENCE LINE FOR
TWO INCHES
PHOTOGRAPHED DRAWINGS



MEASUREMENTS TO HOUSE CONNECTIONS:

North	South
4+145	4+47
4+193	4+95
5+4375	5+4275
5+9375	5+9575
6+4450	6+4650
6+8875	6+9075
7+4225	7+4425
7+9310	7+9510
8+65	8+67

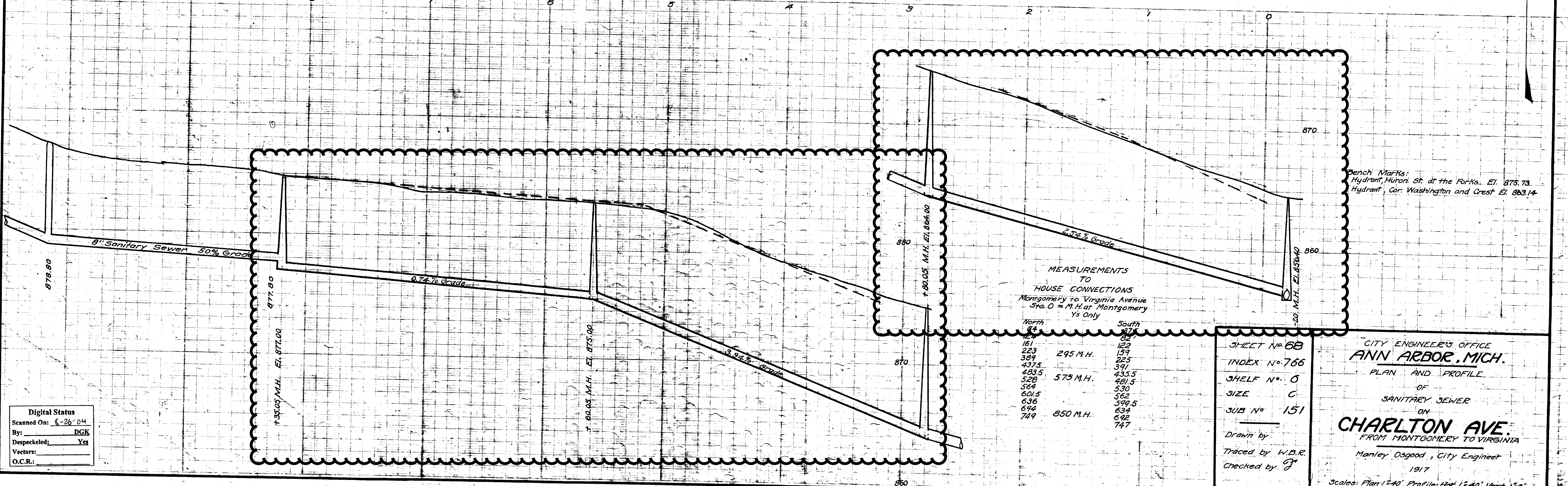
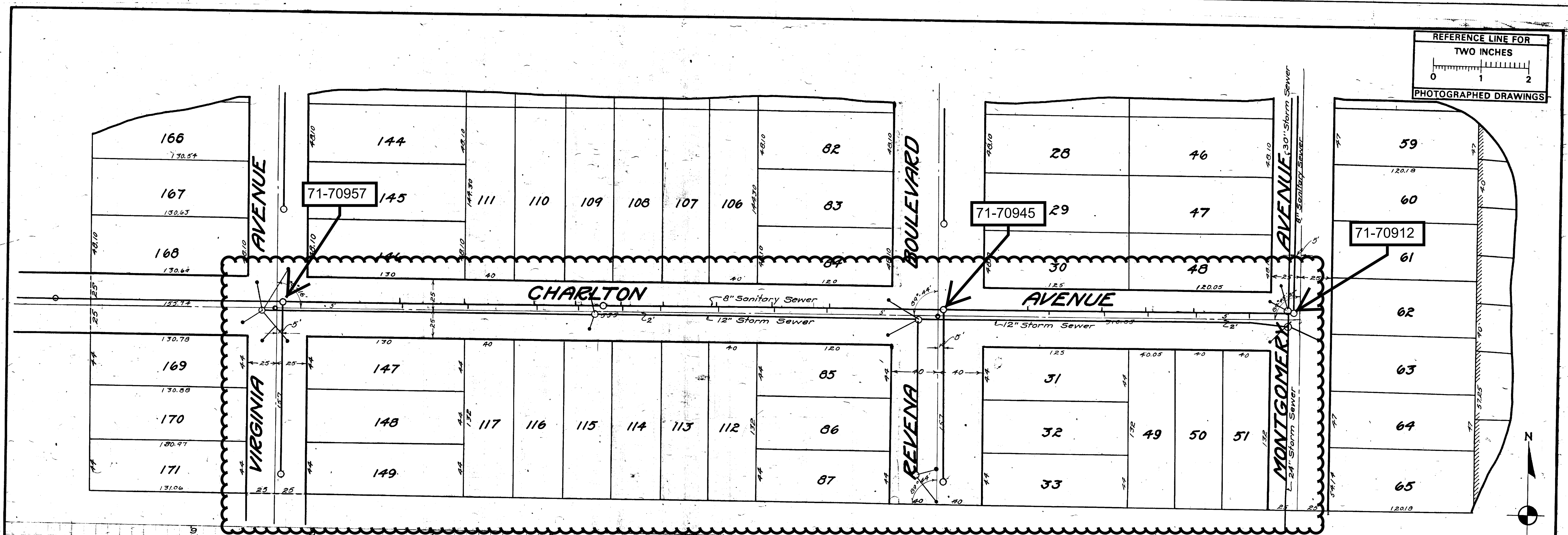
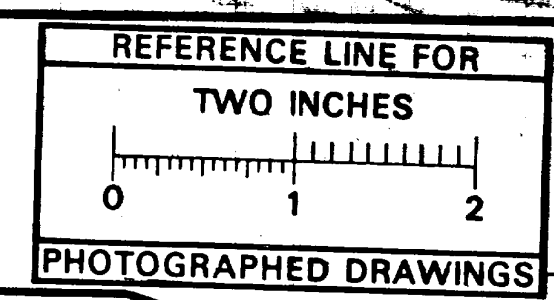
6+94.80 - M.H.
2+6430 - M.H. @ Glendale
Vs Only

Digital Status
Scanned On: 2-23-05
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No.
INDEX No. 1829
SHELF No. 6
SIZE C
SUB. No. 677

Drawn by
Traced by VWM.
Checked by
Approved by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
CHARLTON AVE.
West Line McMillen's Sub. to Glendale Dr.
District No 180
Geo. H. Sandenburgh City Engineer
1929-1-5
Scales: - Plan 1"=40', Profile, Vert. 1"=4'



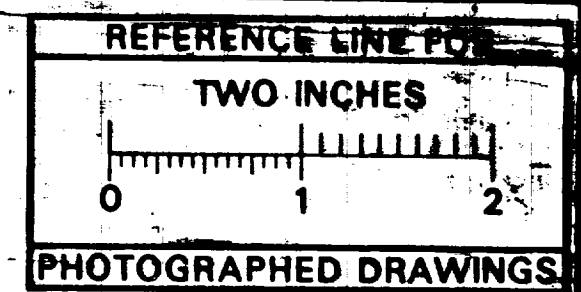
MEASUREMENTS TO HOUSE CONNECTIONS
Montgomery to Virginia Avenue
Sta. 0 = M.H. at Montgomery Ys Only

North	South
161	122
223	159
389	225
437.5	391
483.5	435.5
528	481.5
564	530
601.5	562
636	599.5
694	634
749	692
	747

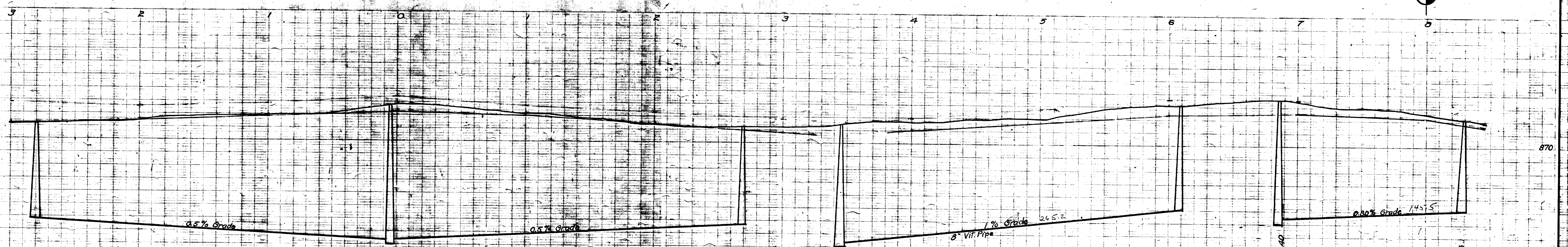
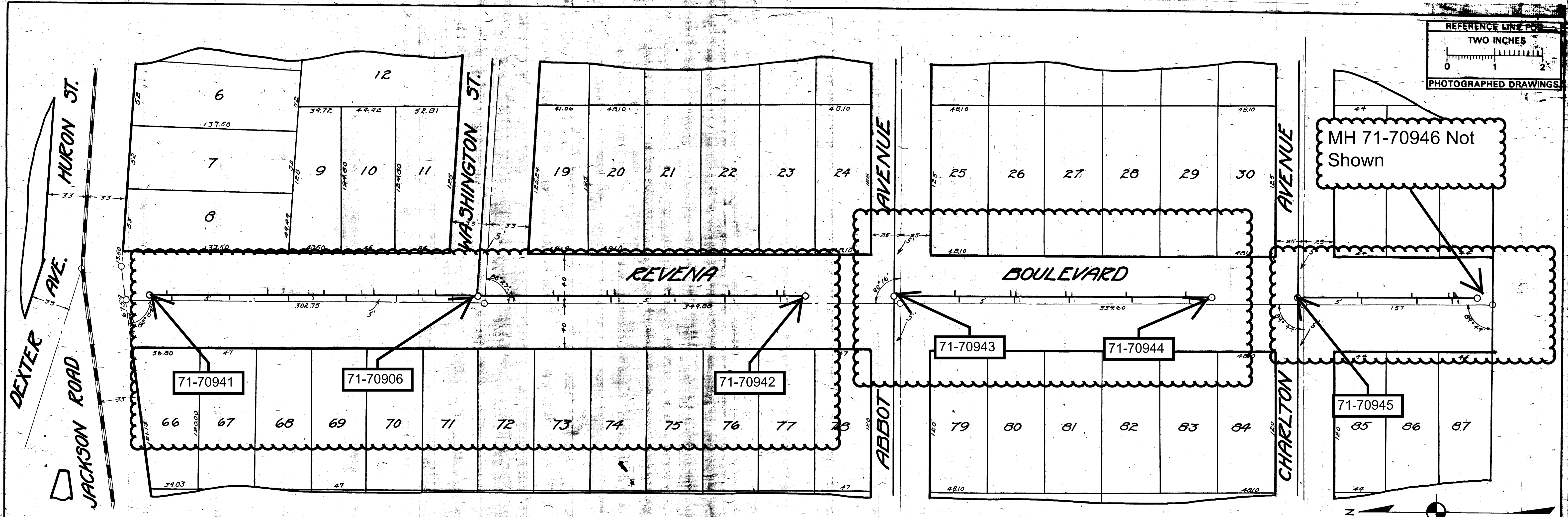
SHEET No 68
INDEX No 766
SHELF No. 0
SIZE C
SUB No 151
Drawn by
Traced by W.B.R.
Checked by J

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
ON
CHARLTON AVE
FROM MONTGOMERY TO VIRGINIA
Manley Osgood, City Engineer
1917
Scale: Plan 1"=40', Profile, Hog 1"=40', Vert 1"=4'

Digital Status
Scanned On: 5-26-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:



MH 71-70946 Not Shown



MEASUREMENTS TO HOUSE CONNECTIONS

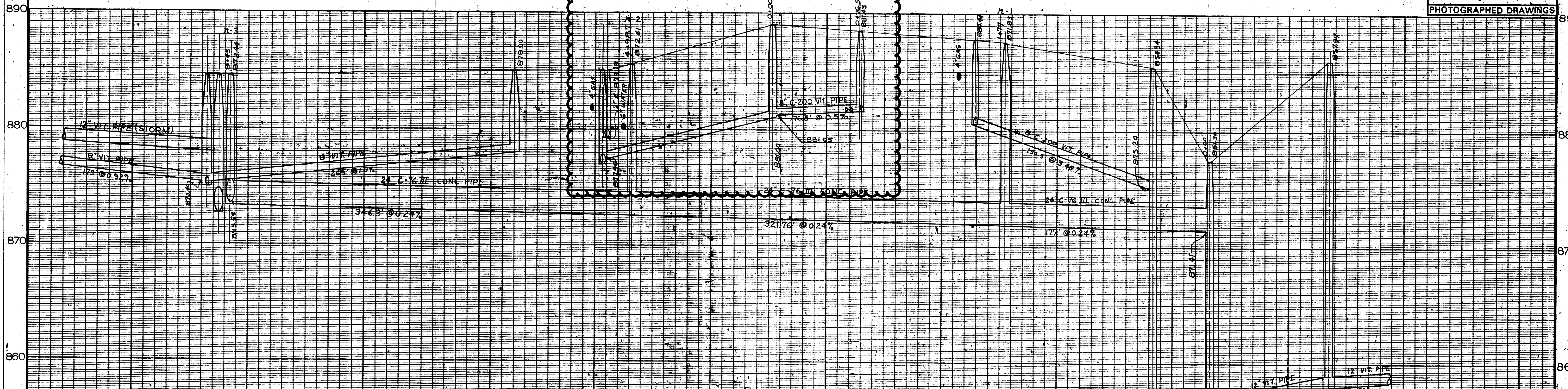
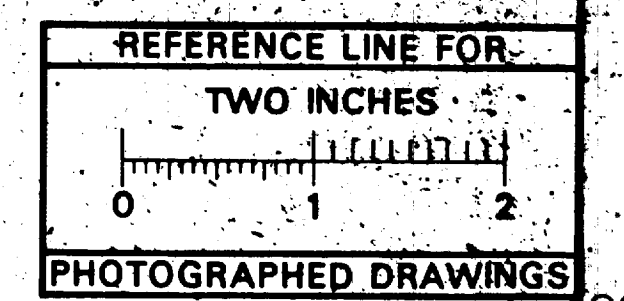
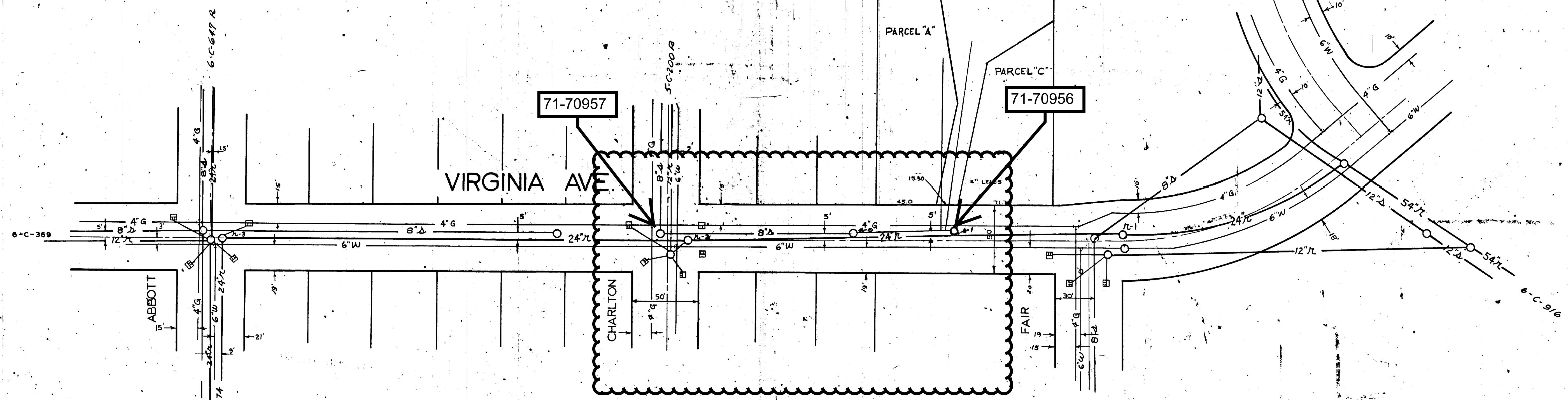
Washington to Jackson Sta. 0 = M.H. @ Wash.		Washington to Abbot Sta. 0 = M.H. @ Wash.	
East	West	East	West
35.5	21.5	43.5	25.0
80.5	69	110	68.5
130.0	113	150	115.0
176.0	159	209	165.0
260.5	209	251	207.0
	259.5		253
279 F.T.		275 F.T.	

Abbot to Charleton Sta. 0 = M.H. @ Charleton		From Charleton South Sta. 0 = M.H. @ Charleton	
East	West	East	West
52	59	52	59
90.5	100.5	98.5	100.5
145	147	127	129
193	201		
248	250		
286 F.T.		146 F.T.	

Bench Marks:
Hydrant, Huron St. at the Forks El. 875.73
Hydrant, Cor. Washington and Chest El. 863.14

Digital Status
Scanned On: 9-3-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No 255	<p>CITY ENGINEER'S OFFICE ANN ARBOR, MICH. PLAN AND PROFILE OF SANITARY SEWER ON REVENA BOULEVARD FROM JACKSON ED. TO END Manley Osgood, City Engineer 1917 Scales: Plan 1"=40', Profile, Hor. 1"=40', Vert. 1"=4'</p>
INDEX No 912	
SHEEF No 6	
JUNE No 296	
Drawn by	
Traced by W.B.R.	
Checked by J	



Digital Stamp
 Stamped On 6/18/10
 By LES

DATE SHEET NO.
 2/71 INDEX NO.
 TR. BY A.K. IAKM. SHELF NO.
 CH. BY
 REVISIONS
 AS B.L.T. BY A.K.M. 2/72
 AS BUILT 7-27-81 W.L.
6-C-4641(3)
 SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=4'

SANITARY AND STORM
 SEWER
VIRGINIA AVENUE
 ABBOTT TO BEMIDJI

FREDRICK A. MAMMEL
 SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

LEGEND:

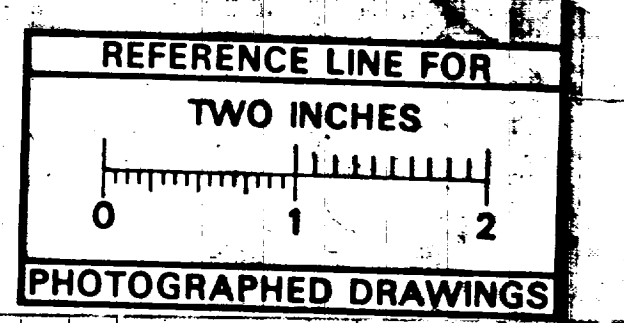
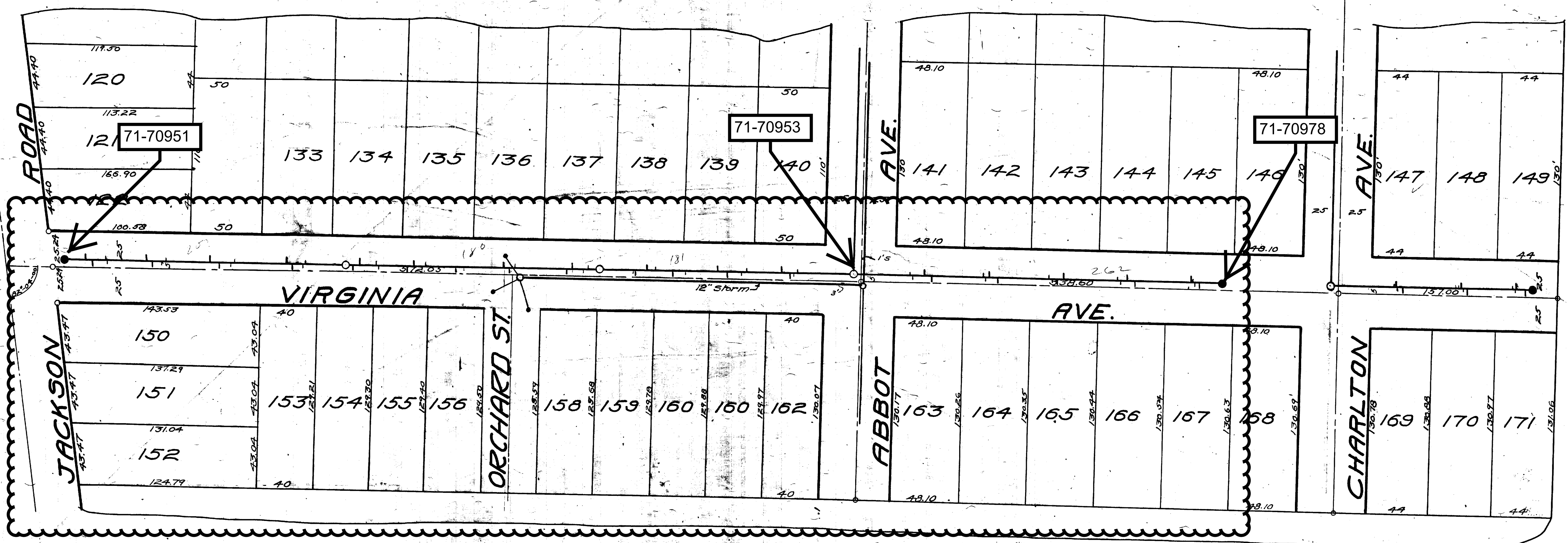
UNDERGROUND UTILITIES	EXISTING SANITARY	EXISTING STORM	EXISTING GAS
PROFILES	PROPOSED SANITARY	PROPOSED STORM	EXISTING WATER
	CENTER LINE	RIGHT PROPERTY LINE	
	LEFT PROPERTY LINE		

REFERENCES:

BENCH MARK	PROFILES BY
DRAWINGS	FIELD BOOK
	333 PP 41-48

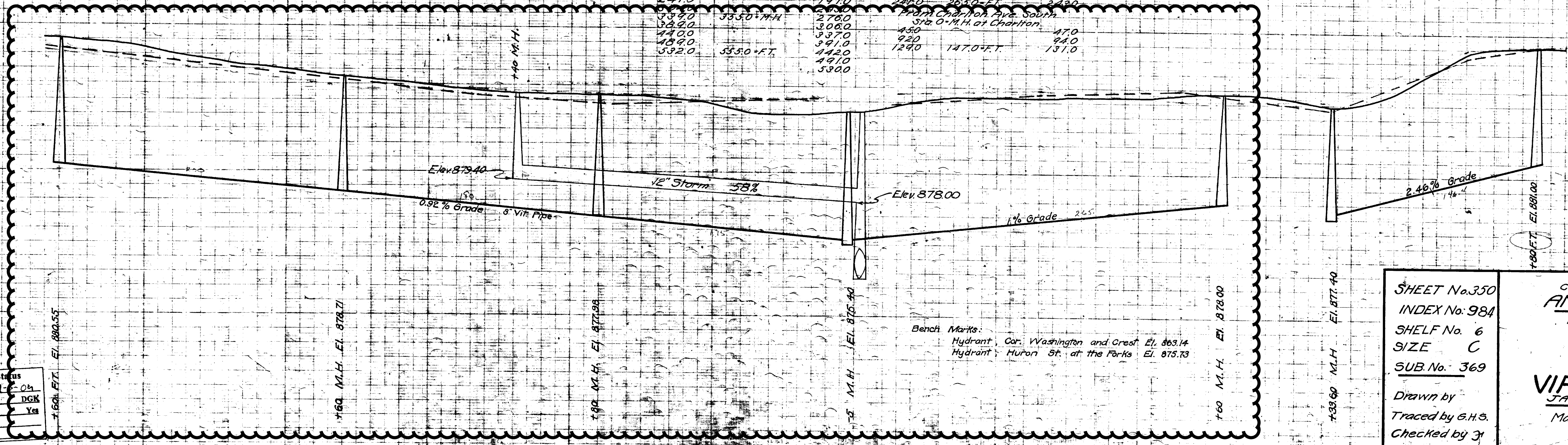
JOB 21-607-3734	DIST.
JOB 33-664	DIST.
JOB	DIST.
JOB	DIST.

PREPARED BY _____
 APPROVED BY _____



MEASUREMENTS TO HOUSE CONNECTIONS

From Abbot to Jackson Road		From Abbot to Charlton	
Sta. 0 = M.H. at Abbot Ave	1/2 Only	Sta. 0 = M.H. at Abbot Ave	1/2 Only
East	400	East	400
West	420	West	420
	740		740
	1410		1410
	1890		1890
	2410		2410
	2930		2930
	3450		3450
	3970		3970
	4490		4490
	5010		5010
	5530		5530



Digital Status
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By: DCK
Despeckled: Yes
Vectors:
O.C.R.:

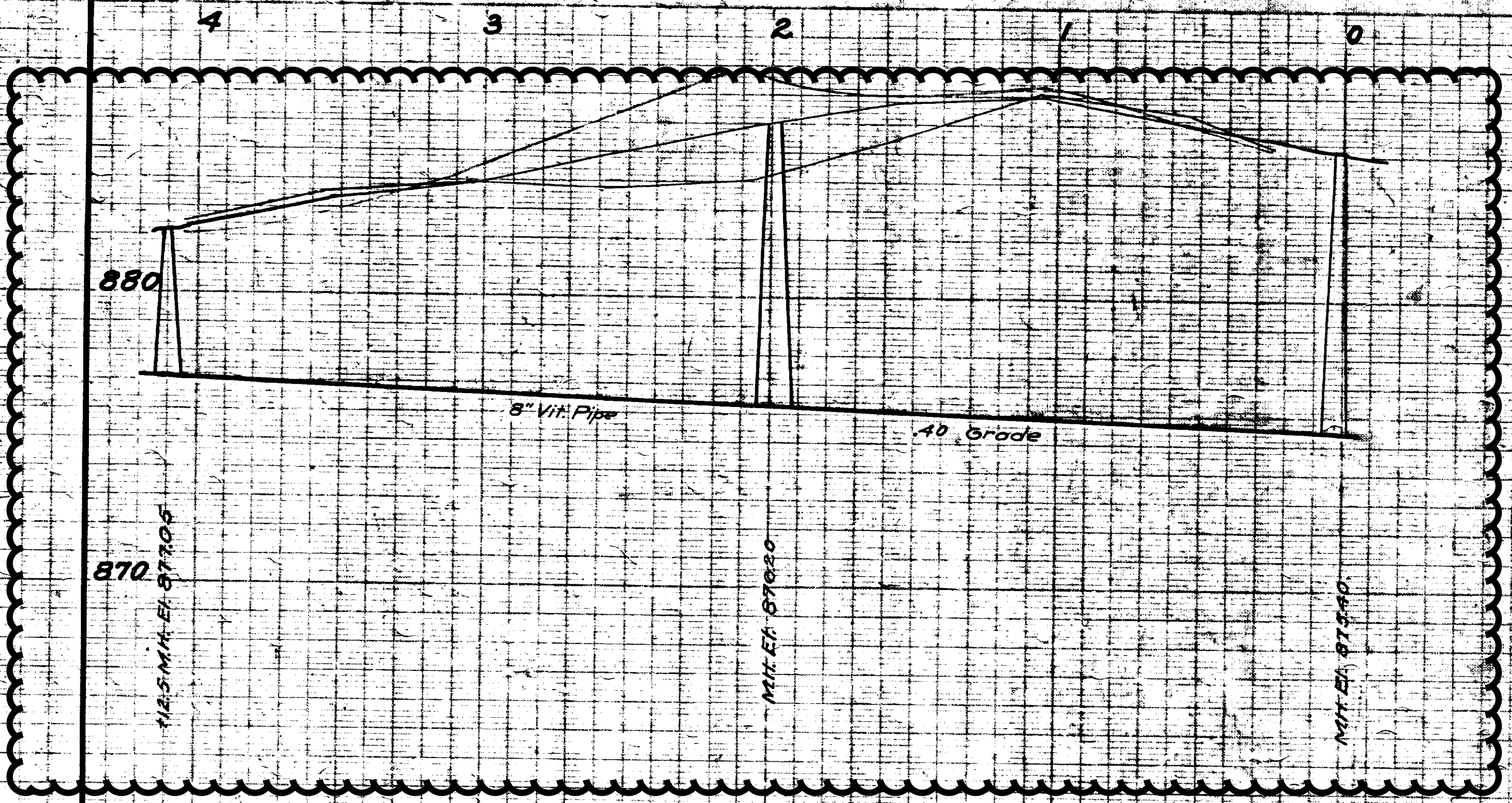
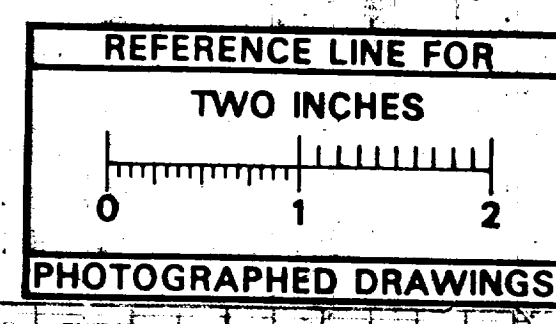
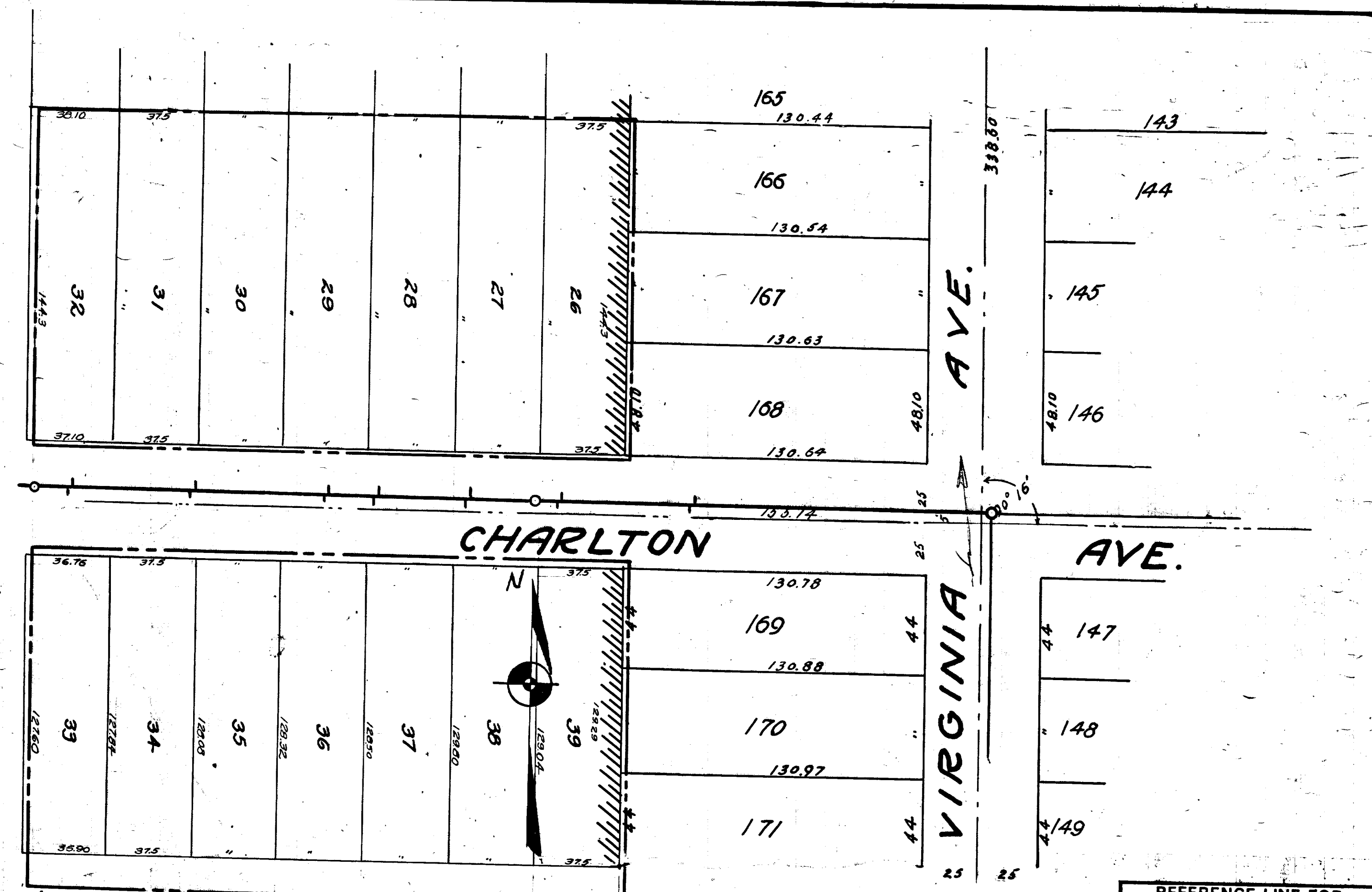
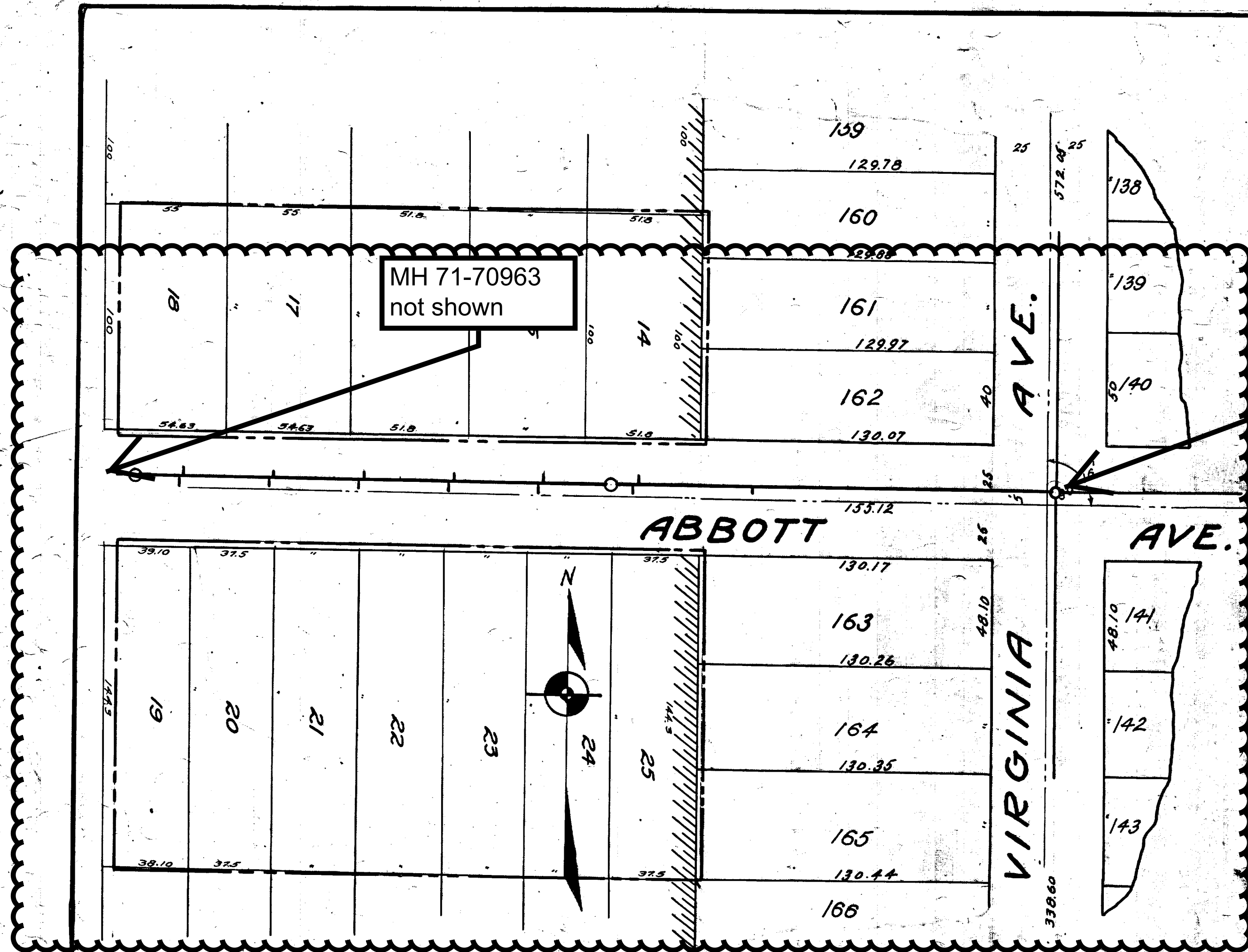
SHEET No. 350
INDEX No. 984
SHELF No. 6
SIZE C
SUB. No. 369

CITY ENGINEER'S OFFICE
ANN ARBOR MICH.
PLAN AND PROFILE
OF
STORM AND
SANITARY SEWERS

VIRGINIA AVE.
JACKSON RD. S. TO END

Drawn by
Traced by G.H.S.
Checked by J.

Manley Osgood, City Engineer.
1917-5-1
Scales - Plan 1" = 40' Profile Horizontal 40 Vertical 4'



MEASUREMENTS TO HOUSE CONNECTIONS

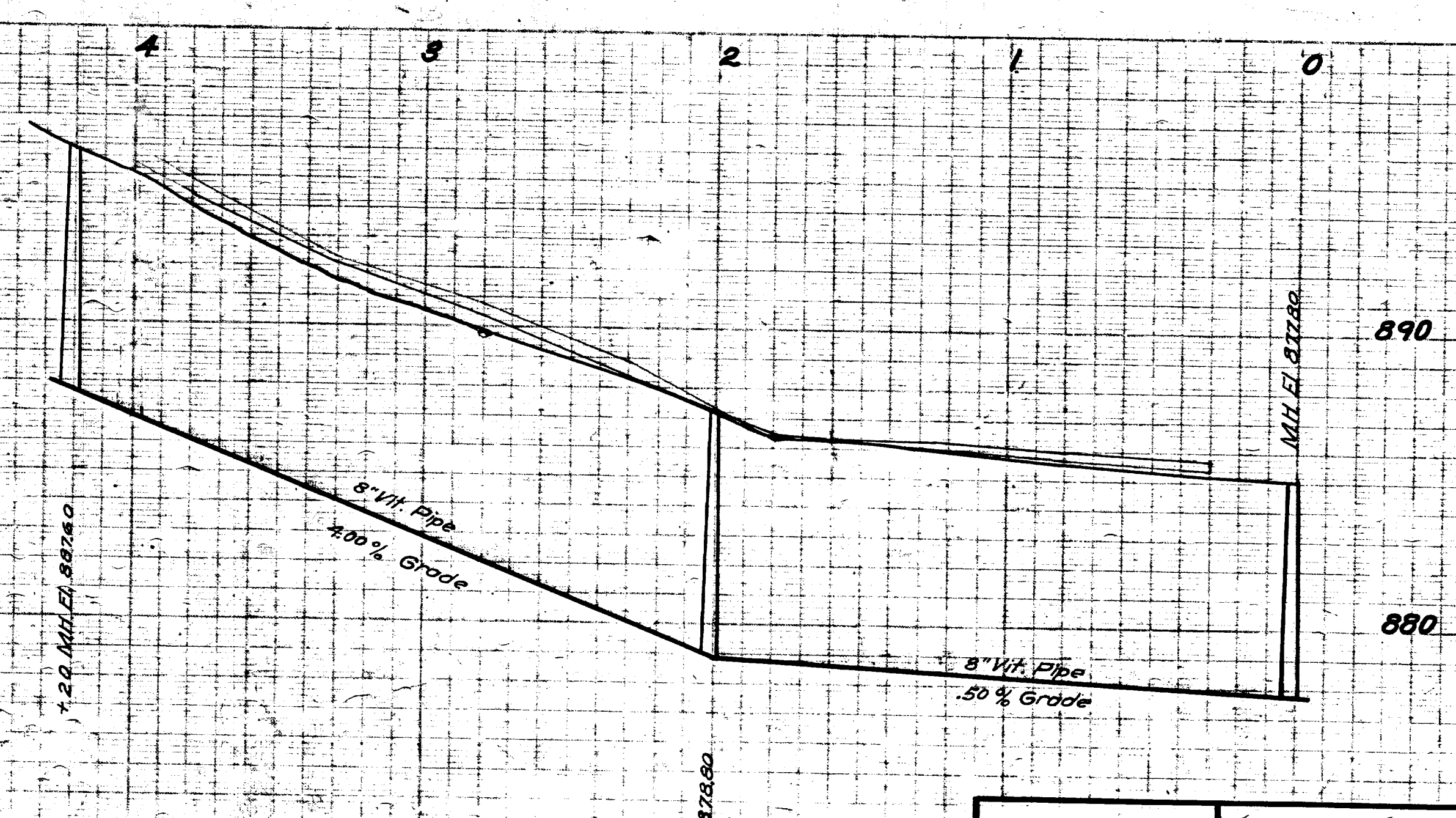
1.5' Sanitary T. South

0' = MH of Virginia Ave. on Abbott Ave.	138
180' 200' MH	139
228	140
268	141
308	142
348	143
388	144
	145
	146
	147
	148
	149
	150
	151
	152
	153
	154
	155
	156
	157
	158
	159
	160
	161
	162
	163
	164
	165
	166

412.5 MH of end

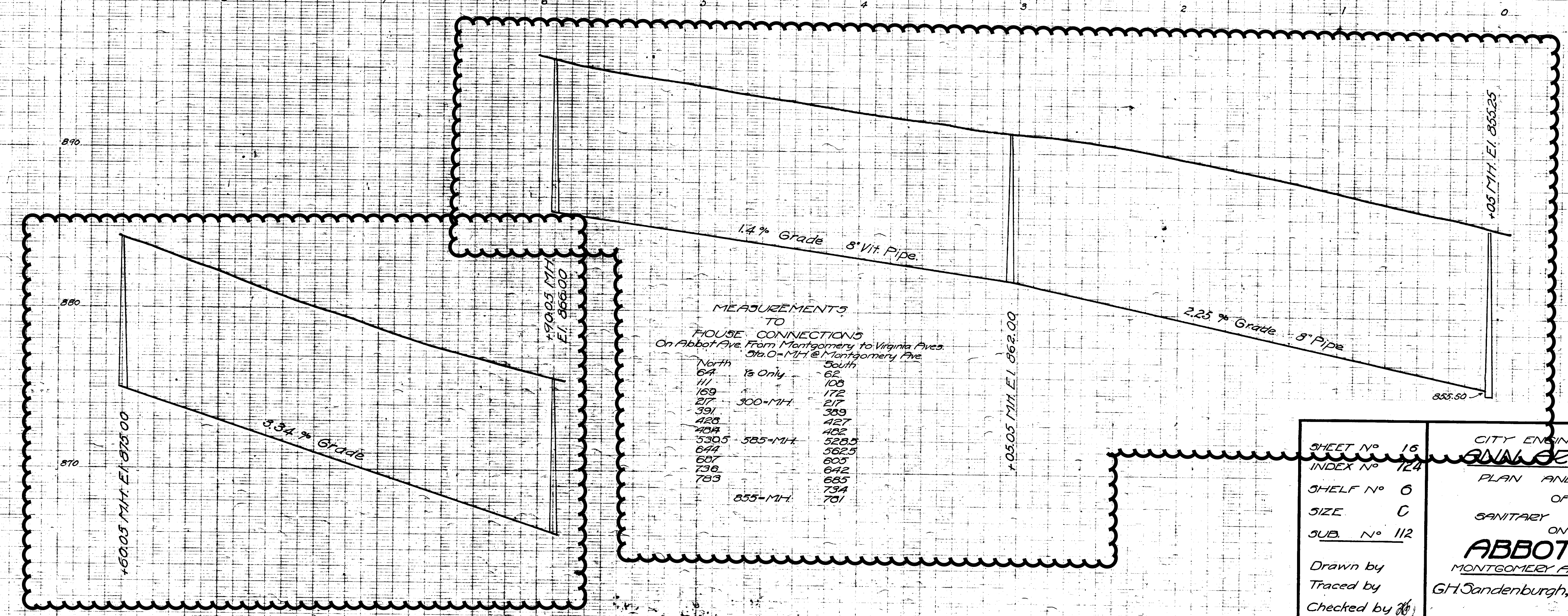
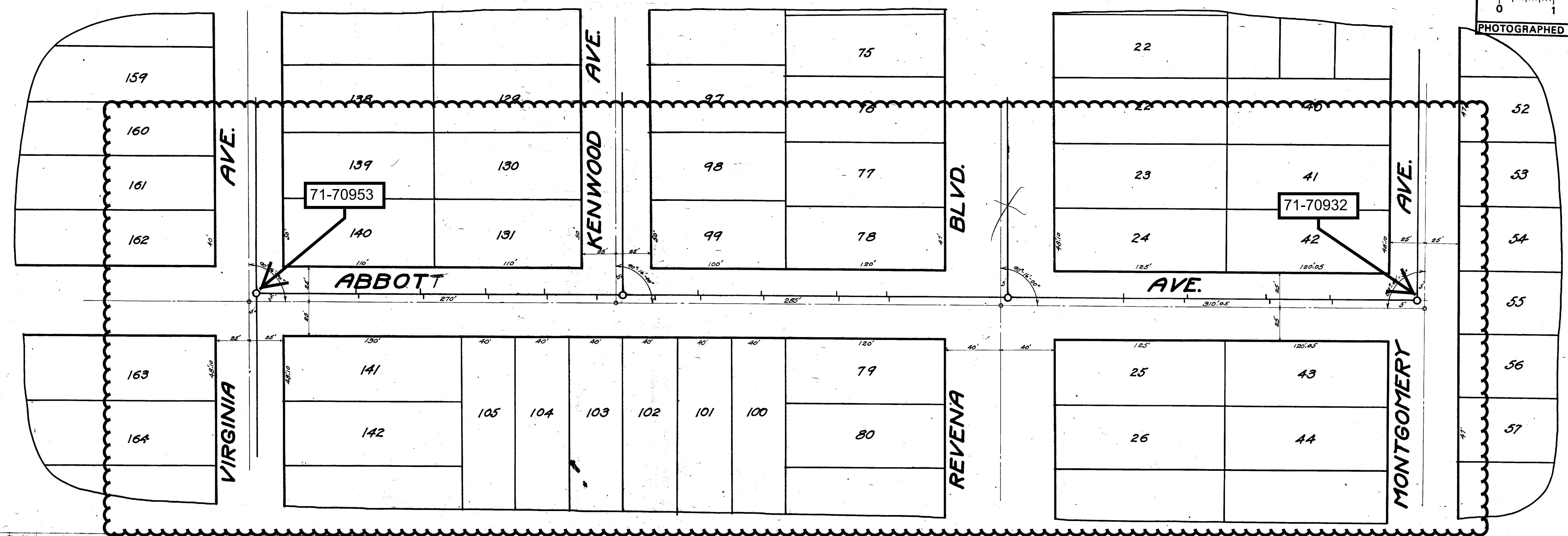
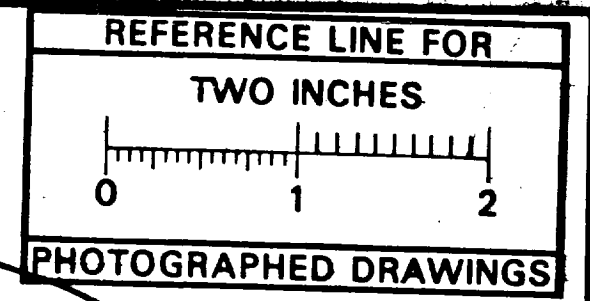
0' = MH of Virginia Ave. on Charlton Ave.	165
130	166
170	167
210	168
250	169
290	170
330	171
370	172
410	173

420' MH of end



Digital Status
Scanned On: 3-20-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No.	CITY ENGINEERS OFFICE
INDEX No. 1223	ANN ARBOR, MICH.
SHELF No. 6	PLAN AND PROFILE OF
SIZE C.	SEWER & SANITARY SEWERS
SUB. No. 488	CHARLTON AVE.
	ABBOTT AVE.
	VIRGINIA AVE., 400 Ft. West
Drawn by	Geo. H. Sandenburgh, City Engineer.
Traced by	1922-8-22
Checked by	Scales: - Plan 1" = 40'; Profile Vert. 1" = 4'



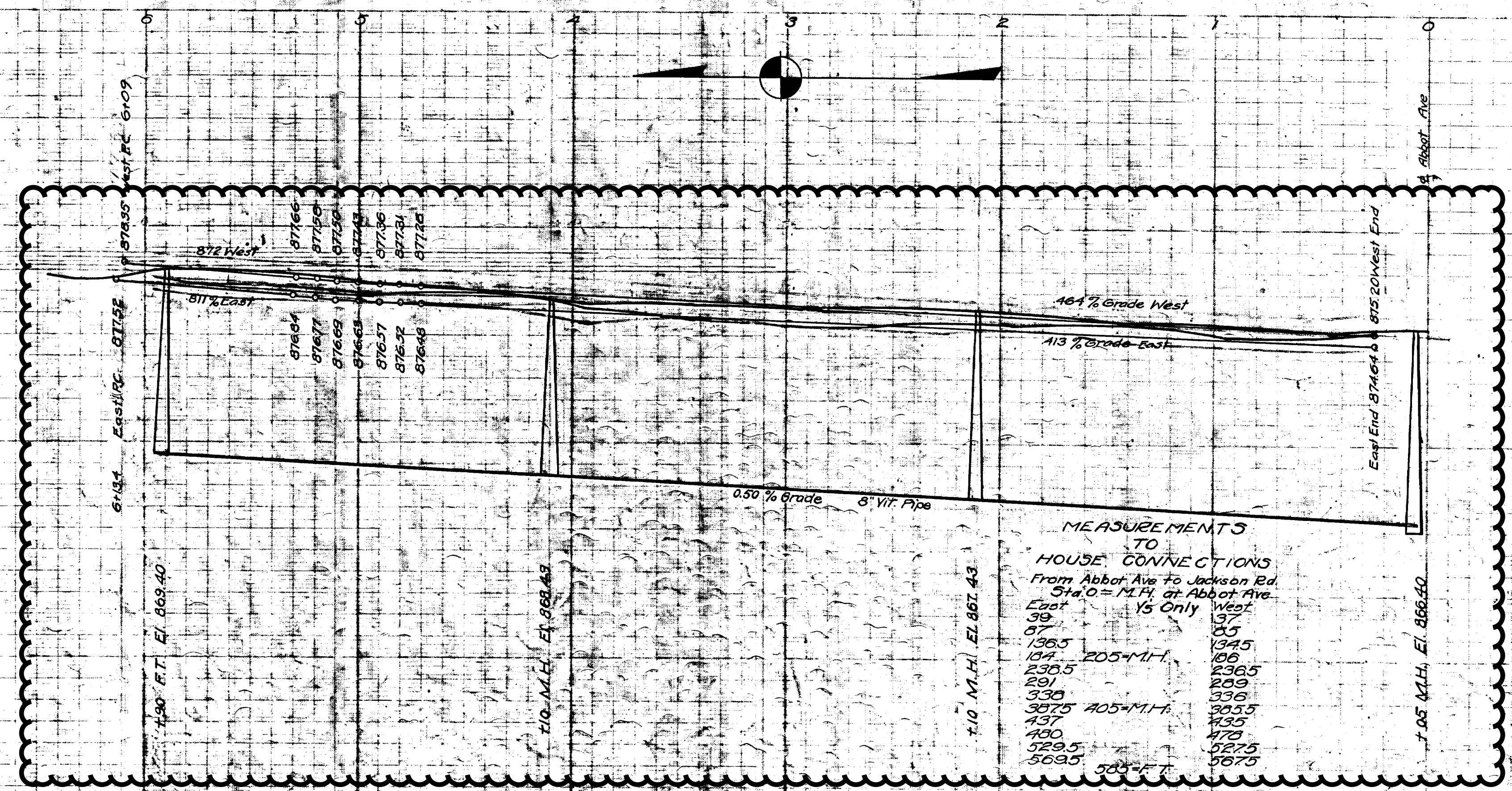
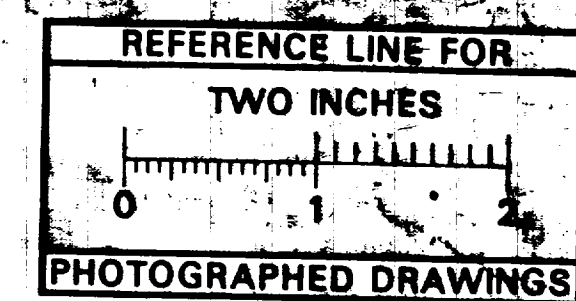
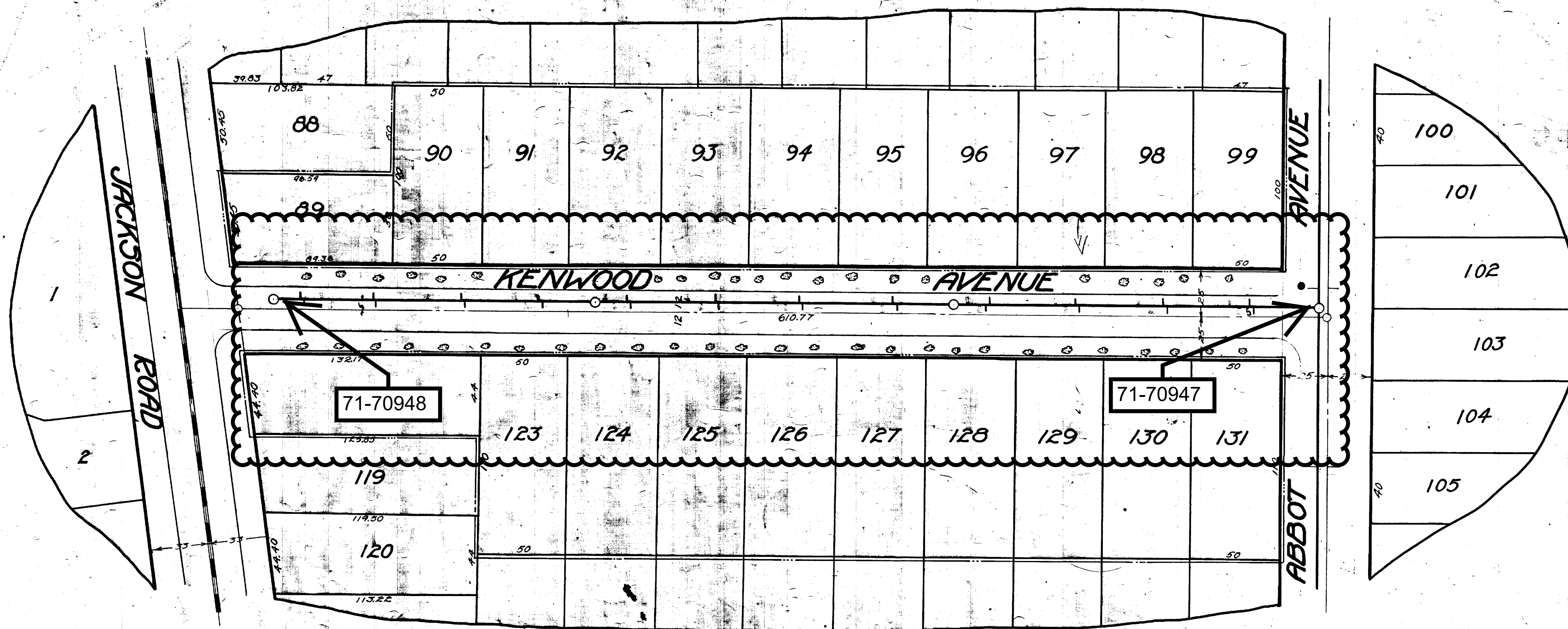
MEASUREMENTS
TO
HOUSE CONNECTIONS
On Abbott Ave. from Montgomery to Virginia Aves.
314.0'-MH at Montgomery Ave.

North	Is Only	South
64		62
11		100
159		172
27		217
391	300'-MH	323
423		427
424		422
530.5	525'-MH	520.5
622		522.5
607		603
736		642
783		685
	855'-MH	734
		701

Digital Status
Scanned On: 8-26-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No 16
INDEX No 124
SHELF No 0
SIZE C
SUB. No 112
Drawn by
Traced by
Checked by

CITY ENGINEERS OFFICE
GNAL SZBOZ, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
ON
ABBOT AVE.
MONTGOMERY AVE TO VIRGINIA AVE.
G.H. Sandenburgh, City Engineer
Scales - Plan 1"=40' Profile-1"=40' Ver 1"=4'



MEASUREMENTS TO HOUSE CONNECTIONS From Abbot Ave to Jackson Rd. Sta. 0 = M.H. at Abbot Ave.

East	West
39	37
97	85
126.5	124.5
154	156
236.5	236.5
291	299
339	336
367.5	363.5
437	435
490	479
529.5	527.5
569.5	567.5

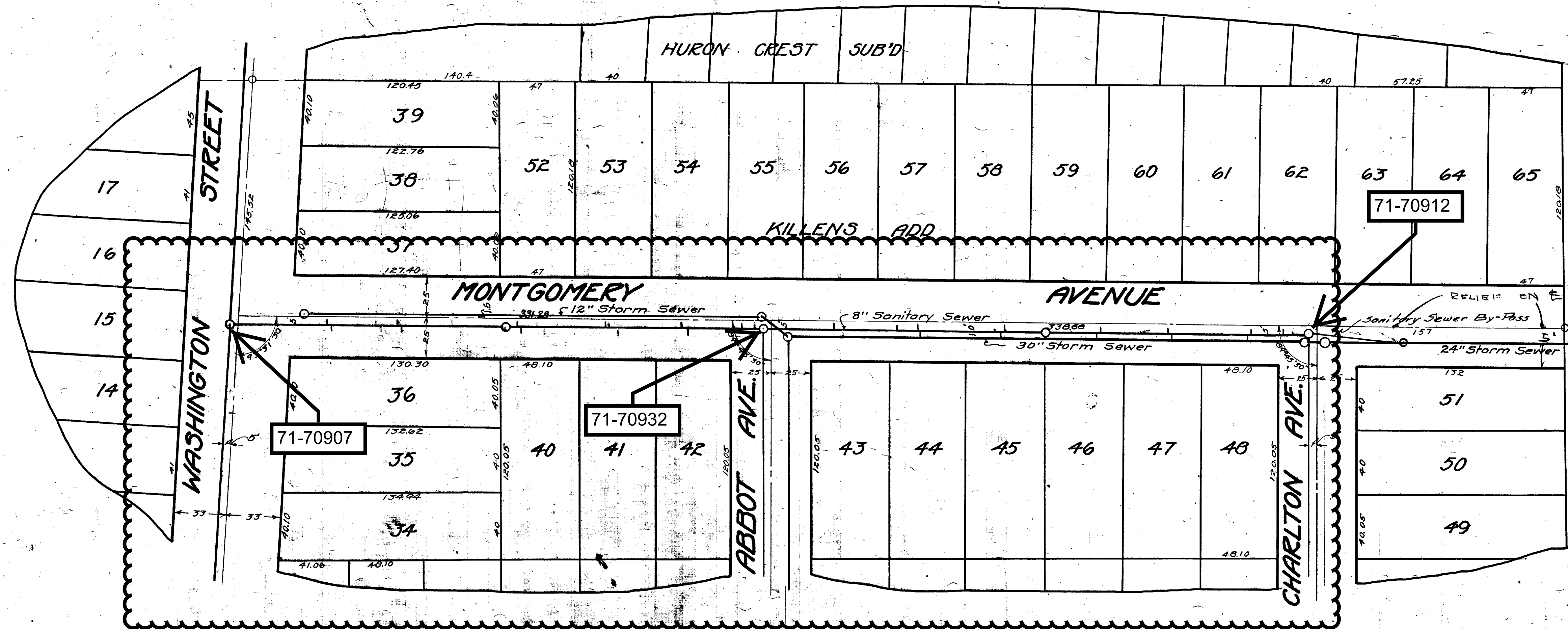
Bench Marks:
 Hydrant, Cor. Washington and Crest El. 885.14
 Hydrant, Huron St. at the Forks El. 875.73

Legend
 East Walk
 East Gutter
 West Walk
 West Gutter
 Edison Pole

Digital Status
 Scanned On: 8-27-04
 By: DGK
 Despeckled: Yes
 Vectors:
 O.C.R.:

SHEET No. 100
 INDEX No. 856
 SHELF No. 6
 SIZE C
 SUB No. 240
 Drawn by
 Traced by
 Checked by

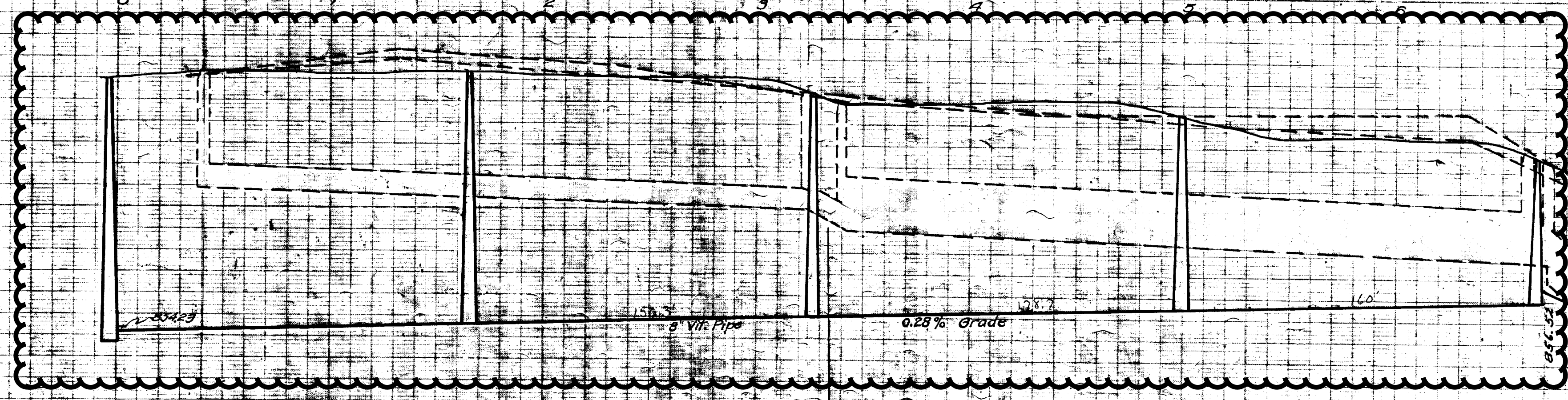
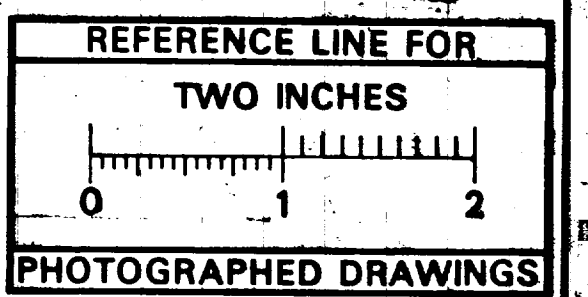
CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER
 AND
 PAVEMENT
 ON
KENWOOD AVENUE
 FROM JACKSON RD. TO ABBOT AVENUE
 Manley Osgood, City Engineer.
 1917
 Scales: Plan 1"=40', Profile, Hor. 1"=40', Vert. 1"=4'



71-70912

71-70907

71-70932



MEASUREMENTS TO HOUSE CONNECTIONS On Montgomery Ave. From Washington St. to Charlton Ave.

Sta O - M.F. @ Washington St.	West
60	62
103.5	103.5
170	100
232.5	239.5
200	2020
317	331-M.F.
412.5	4270
479.5	4775
539	5025
500.5	630
632	
602	670-M.F.

SEE DRWG. G-C-354 FOR RELIEF SANITARY SEWER CONSTRUCTED IN 1949

850
852
15 M.F. EL. 852.73
165 M.F. EL. 854.69
186.28 M.F. EL. 855.14
195 M.F. EL. 855.52
194.84 M.F. EL. 858.00

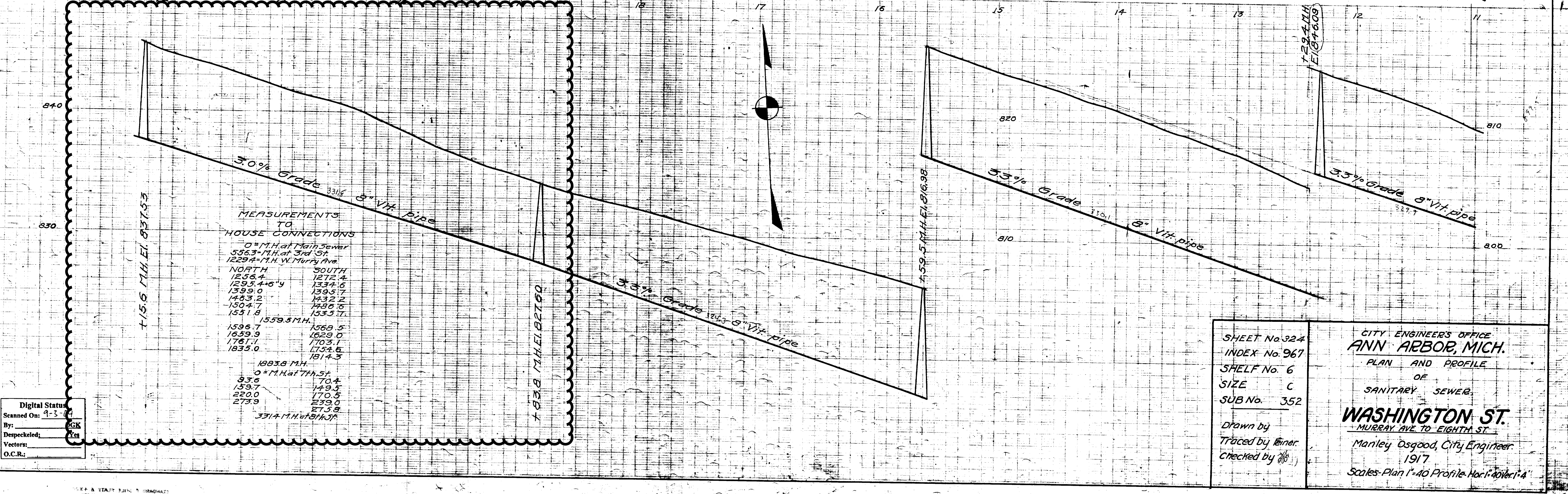
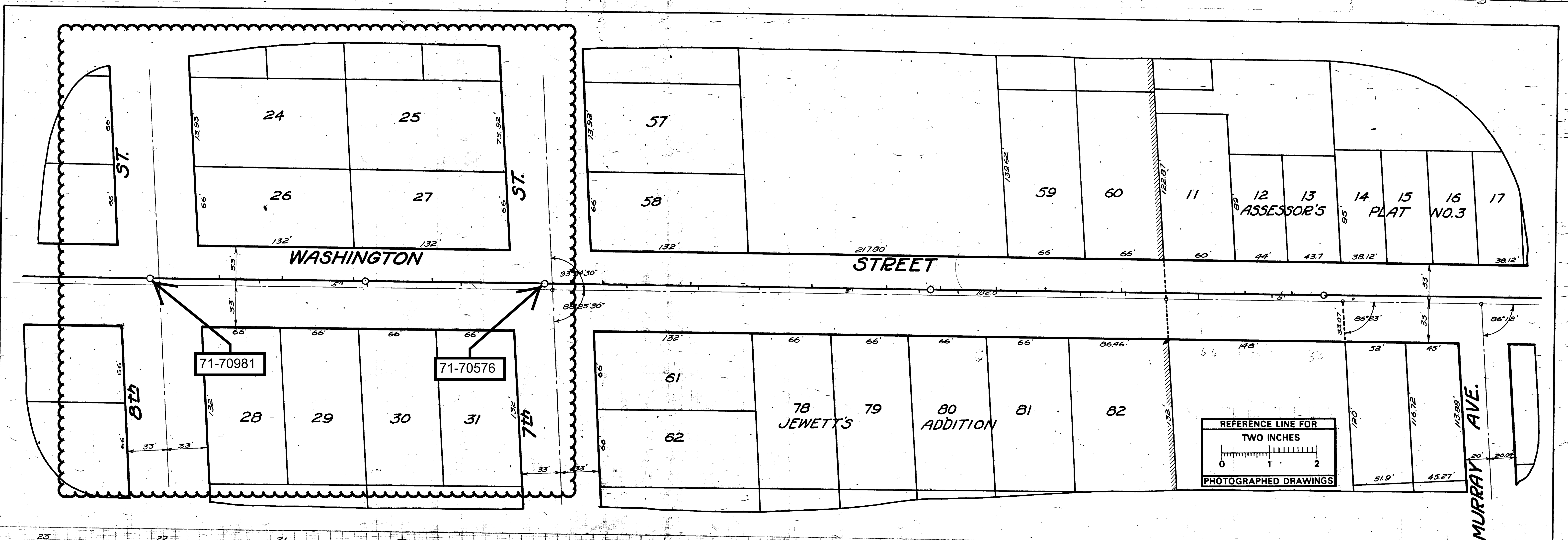
Depth Marks
Hydrant Cor. Washington and Crest El. 863.14
Hydrant Huron St. at the Forks El. 875.73

SHEET No. 223
INDEX No. 890
SHELF No. 6
SIZE C
SUB No. 274

Drawn by
Traced by
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
DISTRICT NO.
MONTGOMERY AV.
FROM WASHINGTON ST. S. TO END
Manley Osgood, City Engineer.
1917-4-19
Scale Plan 1" = 40' Profile 1" = 40' VERT. 1" = 1' One Sheet.

Digital Status
Scanned On: 9-1-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

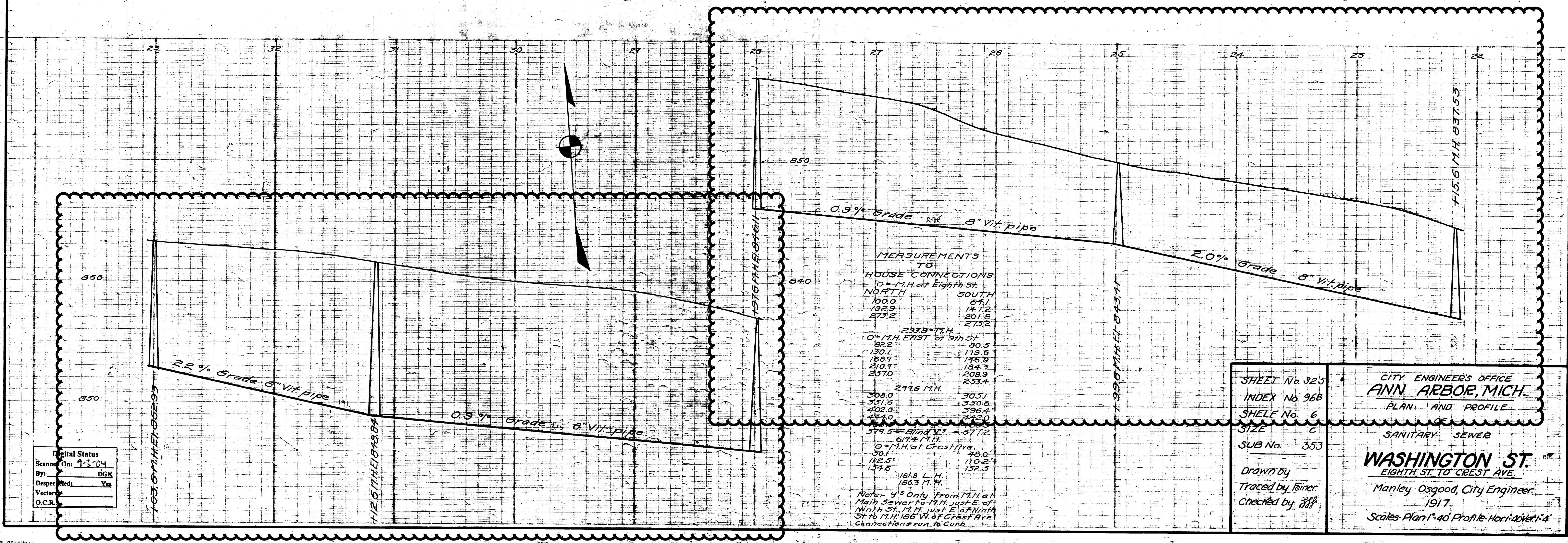
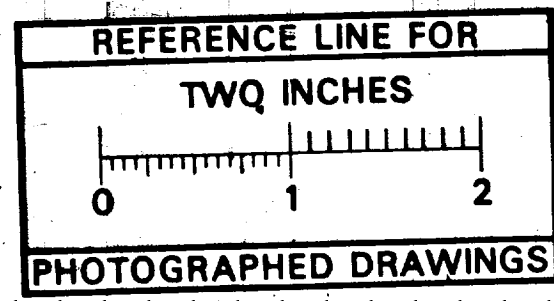
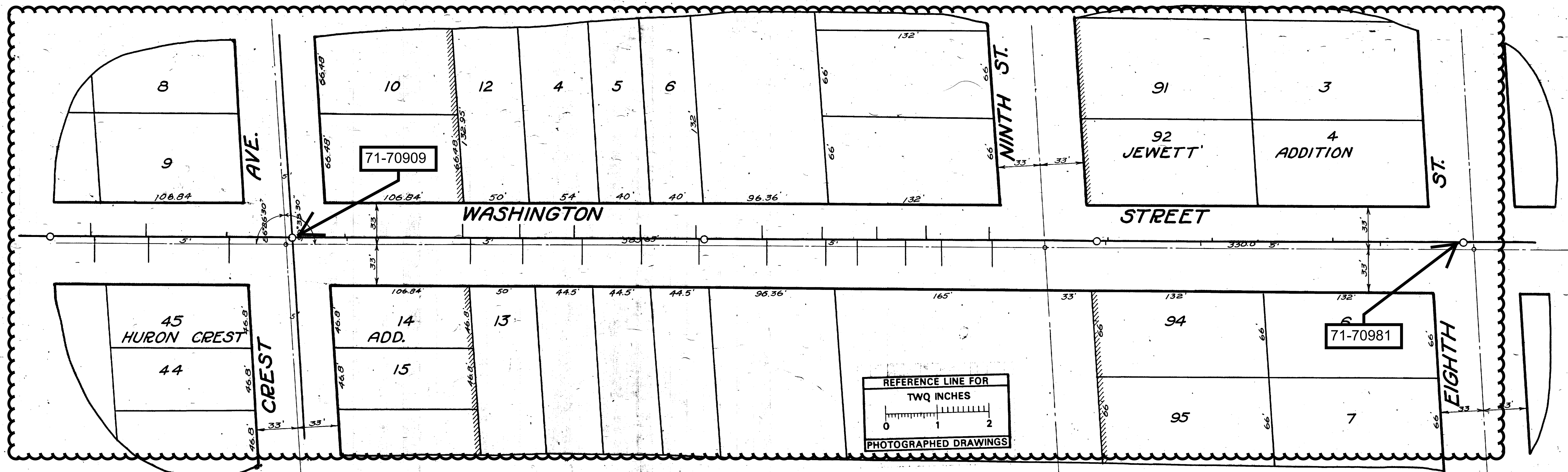


Digital Status
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By: GJK
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Vectors:
O.C.R.:

SHEET No. 324
INDEX No. 967
SHELF No. 6
SIZE C
SUB No. 352

Drawn by
Traced by Feiner
Checked by

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
WASHINGTON ST.
MURRAY AVE. TO EIGHTH ST.
Manley Osgood, City Engineer.
1917
Scale: Plan 1"=40' Profile Horizontal 1"=4'



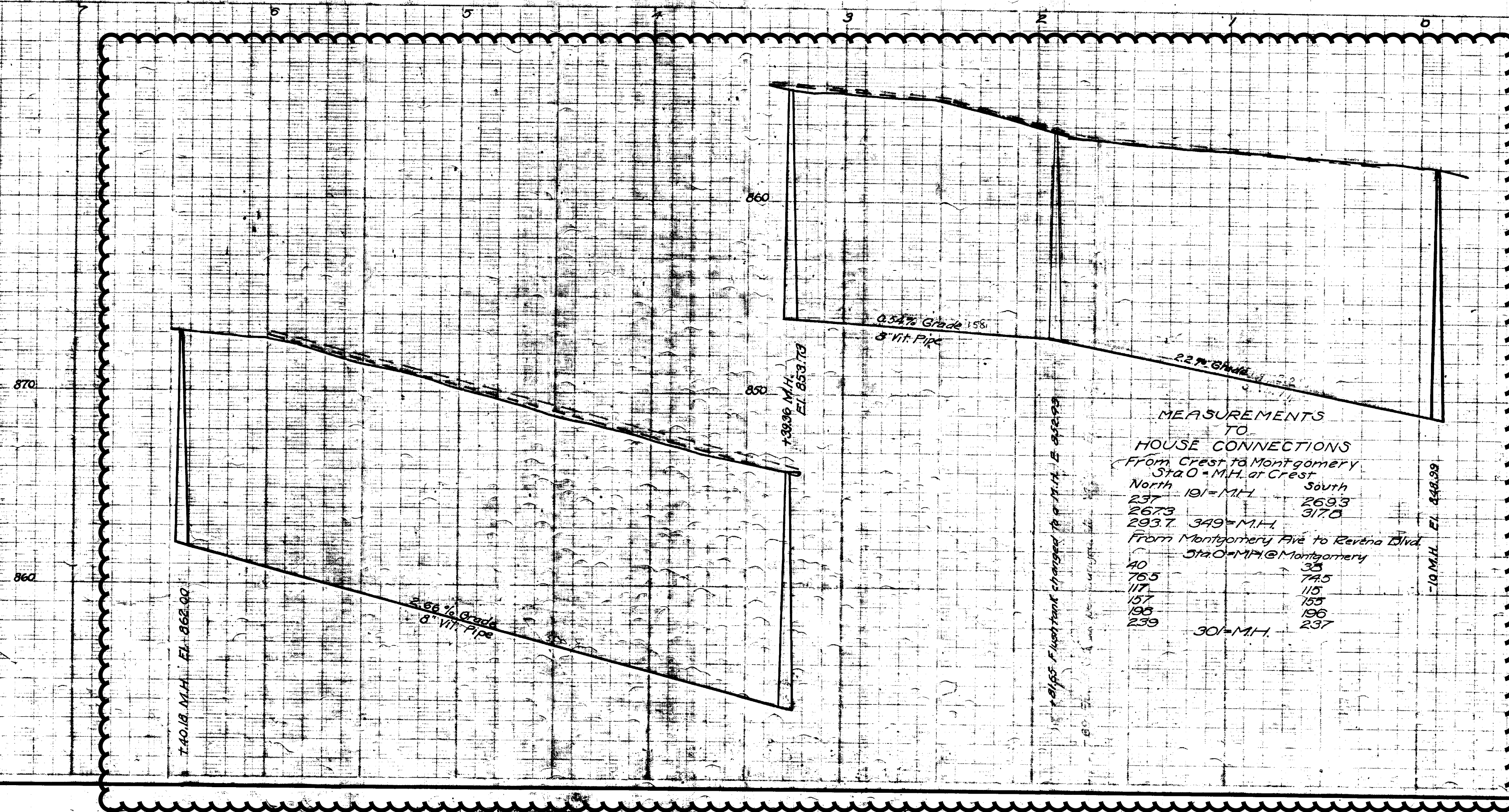
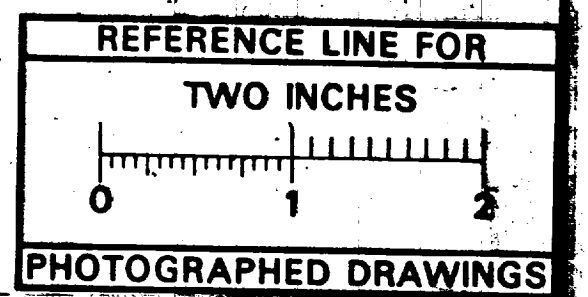
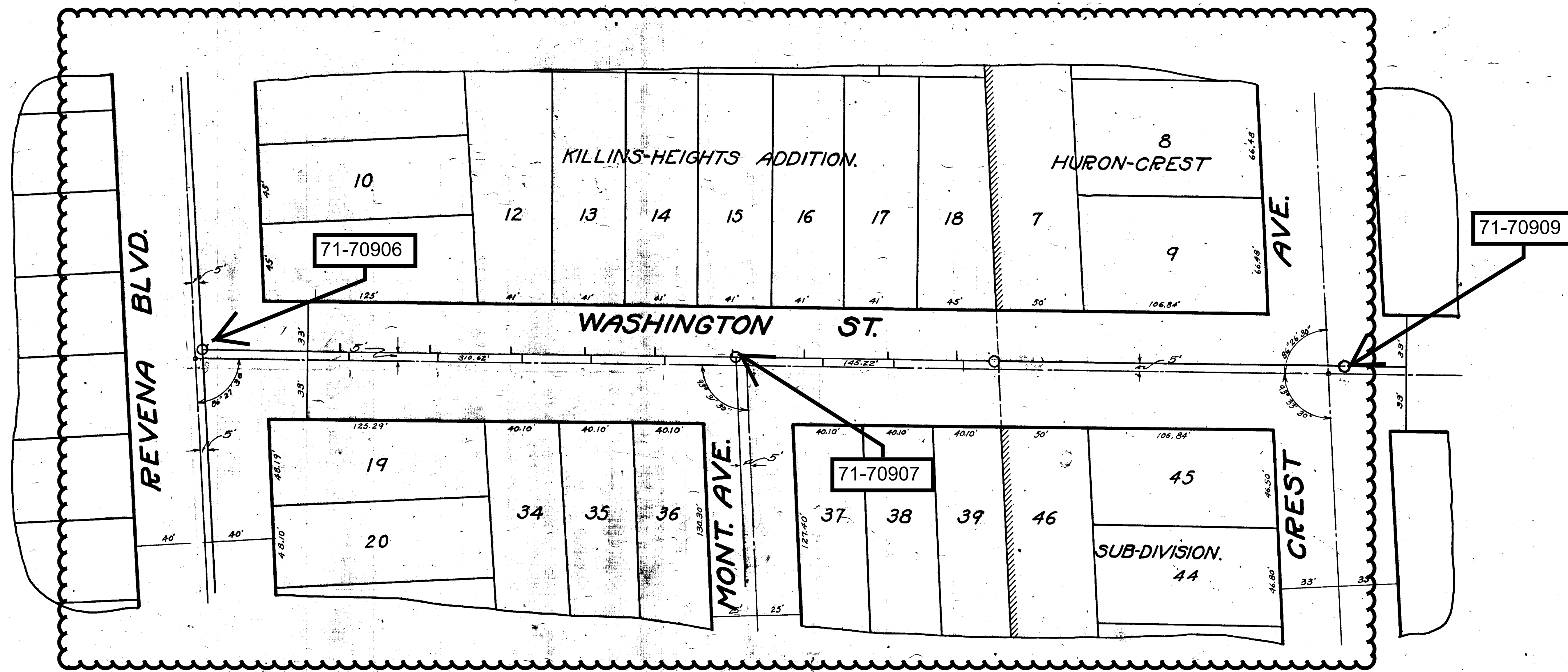
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Scanned On: 9-3-04
By: DGK
Despeckled: Yes
Vectorized:
O.C.R.:

SHEET No. 325
INDEX No. 96B
SHELF No. 6
SIZE C
SUB No. 353

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE

SANITARY SEWER
WASHINGTON ST.
EIGHTH ST. TO CREST AVE.
Manley Osgood, City Engineer.
1917.
Scales - Plan 1" = 40' Profile Horizontal 1" = 4'

Drawn by
Traced by Feiner
Checked by JFF

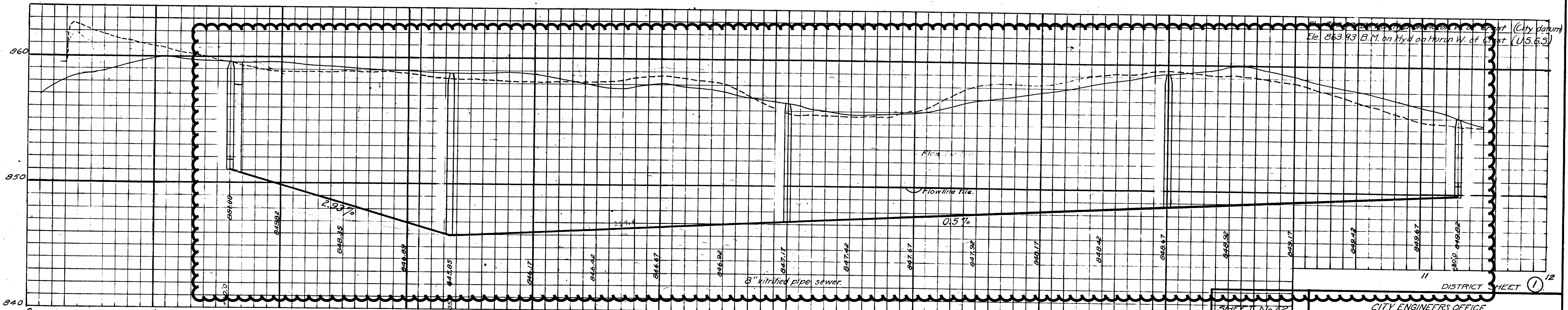
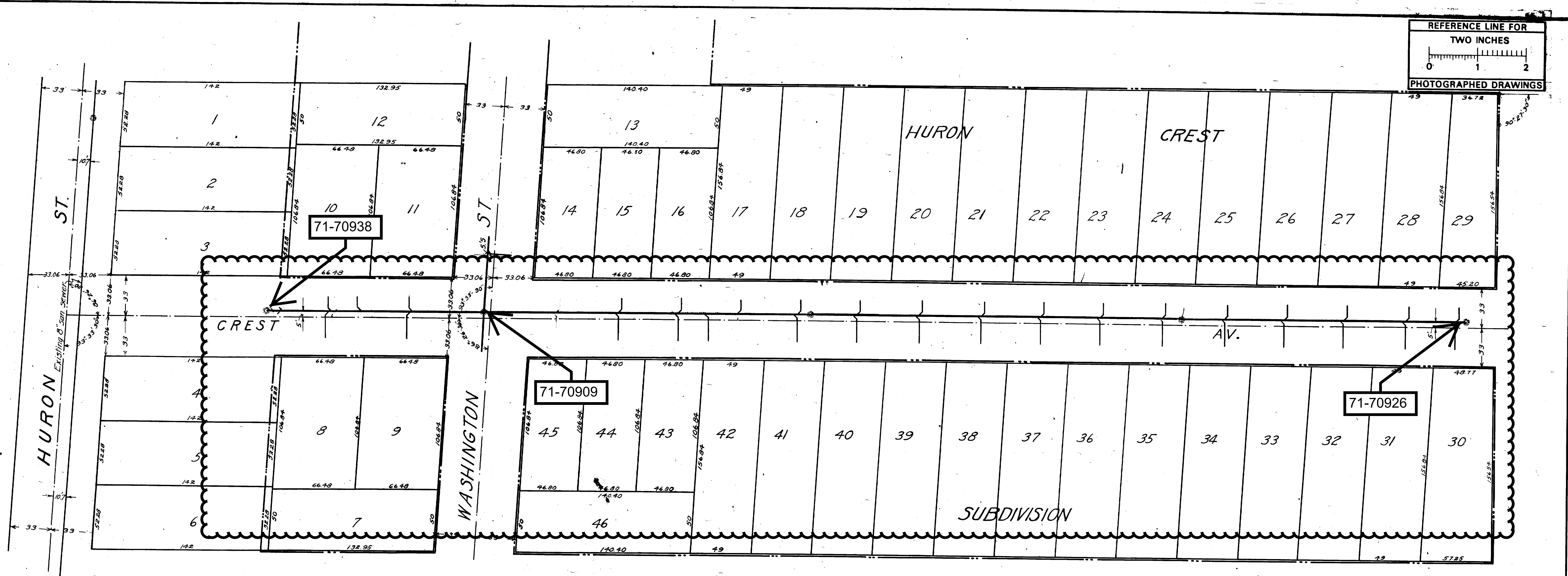
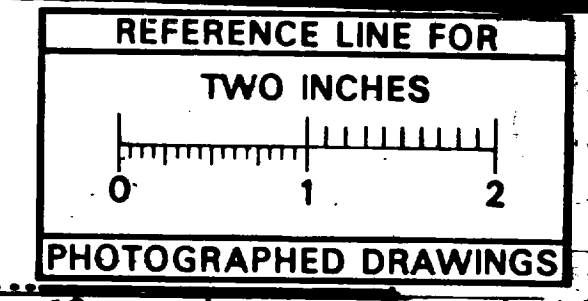


Bench Marks:
Hydrant, Chas. Washington and Crest, EL. 263.14
Hydrant, Huron St. at the Forks, EL. 275.73

Digital Status
Scanned On: 9-5-04
By: DCK
Despeckled: Yes
Vectors:
O.C.R.:

SHEET No. 332
INDEX No. 373
SHELF No. 6
SIZE C
SUB No. 358
Drawn by
Traced by Famer
Checked by J

CITY ENGINEERS OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
WASHINGTON ST.
REVENA BLVD. TO CREST AVE.
Manley Osgood, City Engineer
1917
Scale: Plan 1"=40' Profile Vert. 1"=4'



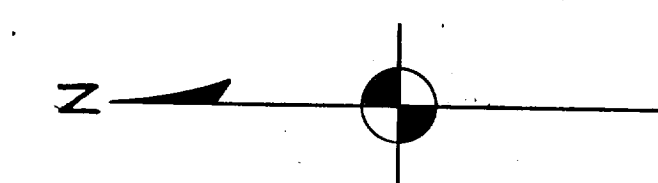
Digital Status
Scanned On: 8-25-04
By: DGK
Despeckled: Yes
Vectors:
O.C.R.:
Corrected to final measurements 1915-1-8 by S. J. ...

Measurements to house connections
40' M.H. at Wash.

North from Wash.		South from Wash (cont.)	
E	W	E	W
576	605	2639	M.H.
1025	1202	3042	300.9
1256	166.76	350.2	3470
164.7		401.2	3999
168.2	L.H.	441.0	4059
174.5	FT.	446.3	493.7
		446.5	544.5
110.5	109.2	565.1	M.H.
156.1	135.4	576.4	594.0
204.7	181.6	644.7	642.3
253.4	253.4	692.4	691.0

- BILL OF MATERIAL**
- 1654 lineal ft. of 8" tile
 - 250 " "
 - 74 - 8" branches
 - 74 - 4" curves
 - 4 - manholes
 - 4 - flush valves
 - 1 - flush tank using old siphon
 - 2 - lamp globe covers
- Excavation - 8" depth
223 lineal ft. of 6" depth
1497 " " 8"-10"
1046 " " 10"-12"

- LEGEND**
- Center line of street
 - West sidewalk line
 - East sidewalk line
 - Grade line of sewer
 - District boundary line



SHEET No. 12
INDEX No. 454
SHELF No. 6
SIZE C
SUB No. 12

Checked by M.O.

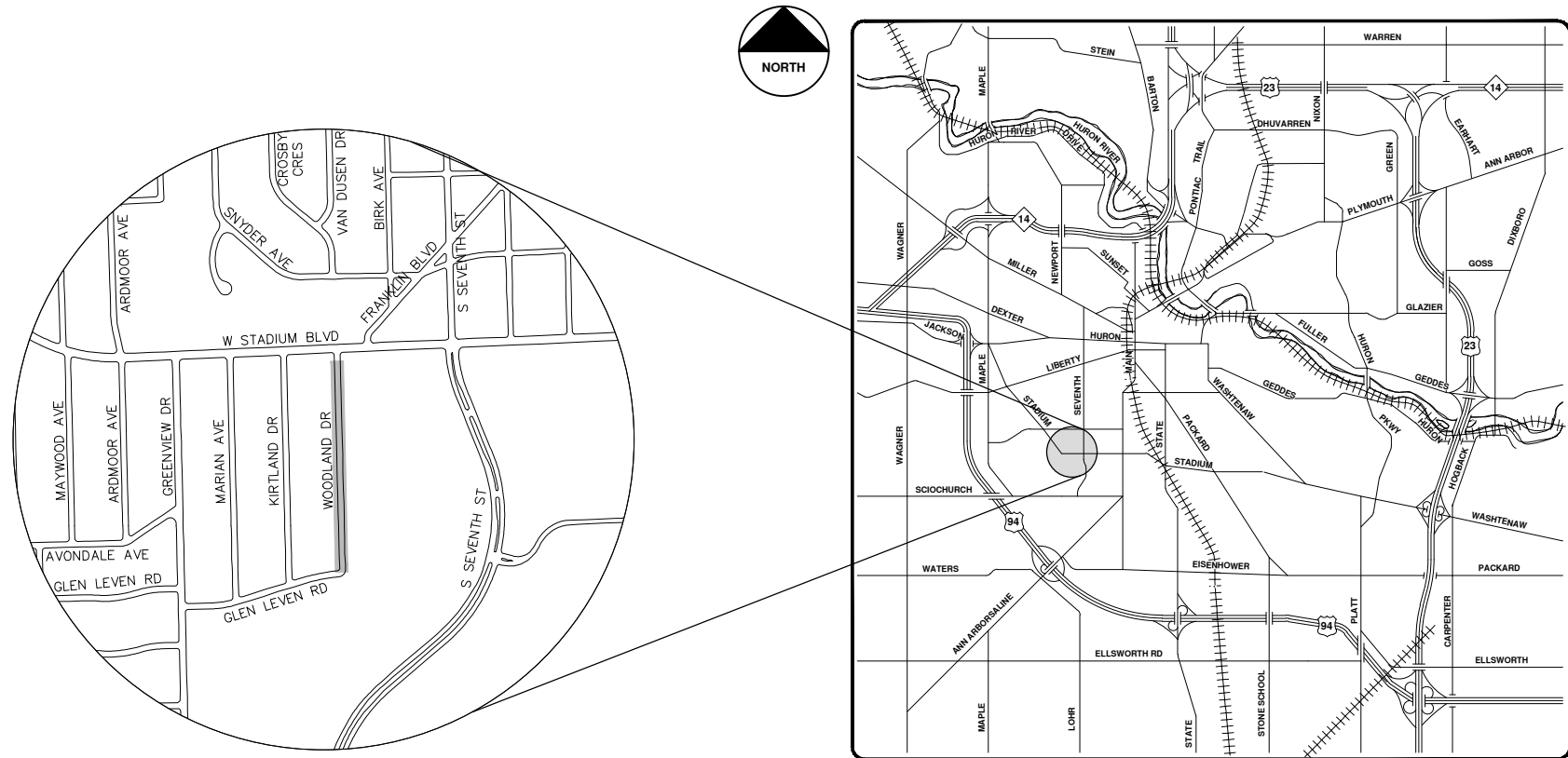
CITY ENGINEERS OFFICE
ANN ARBOR, MICH
PLAN AND PROFILE
OF
SANITARY SEWER
DISTRICT No. 53
CREST AVE
FROM HURON ST SOUTH
Manley Osgood City Engr
1913-3-28
Scales: Plan-1"=40'; Profile, Hor-1"=40', Vert-1"=4'
One Sheet

DISTRICT SHEET 12



2016 SANITARY SEWER LINING

WOODLAND DRIVE



VICINITY MAP

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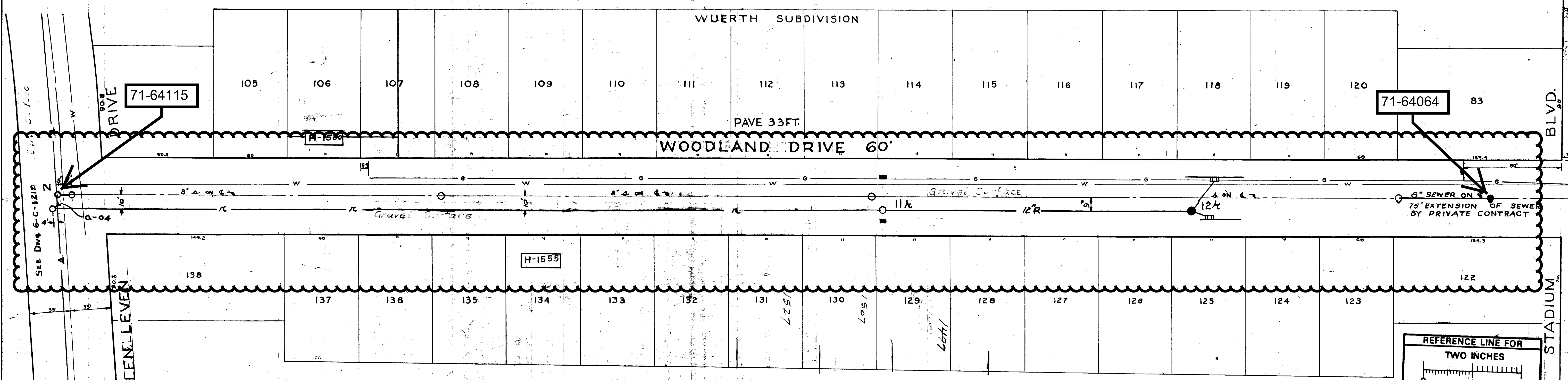


PROJECT MANAGEMENT SERVICES UNIT
 CITY OF ANN ARBOR PUBLIC SERVICES
 301 EAST HURON STREET, P.O. BOX 8647
 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR		CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 www.a2gov.org	
SCALE	DRAWING No.	DESCRIPTION	REV.
	2015040-18	OUT FOR BID	00
SHEET No.	DATE	4-8-16	00
18 OF 30		DRAWN	JEN
		CHECKED	

© 2016 SANITARY SEWER LINING; LOCATION: WOODLAND DRIVE; 2015040

WUERTH SUBDIVISION



71-64115

71-64064

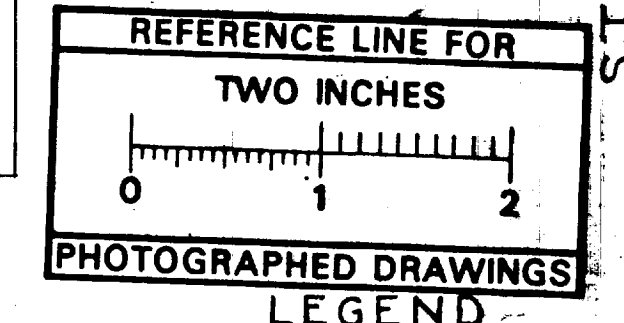
WOODLAND DRIVE 60'

PAVE 33FT.

ABANDON END OF GLEN LEVEN EAST OF WOODLAND
1992 RESURFACING SEE 92004-33 R.C/G

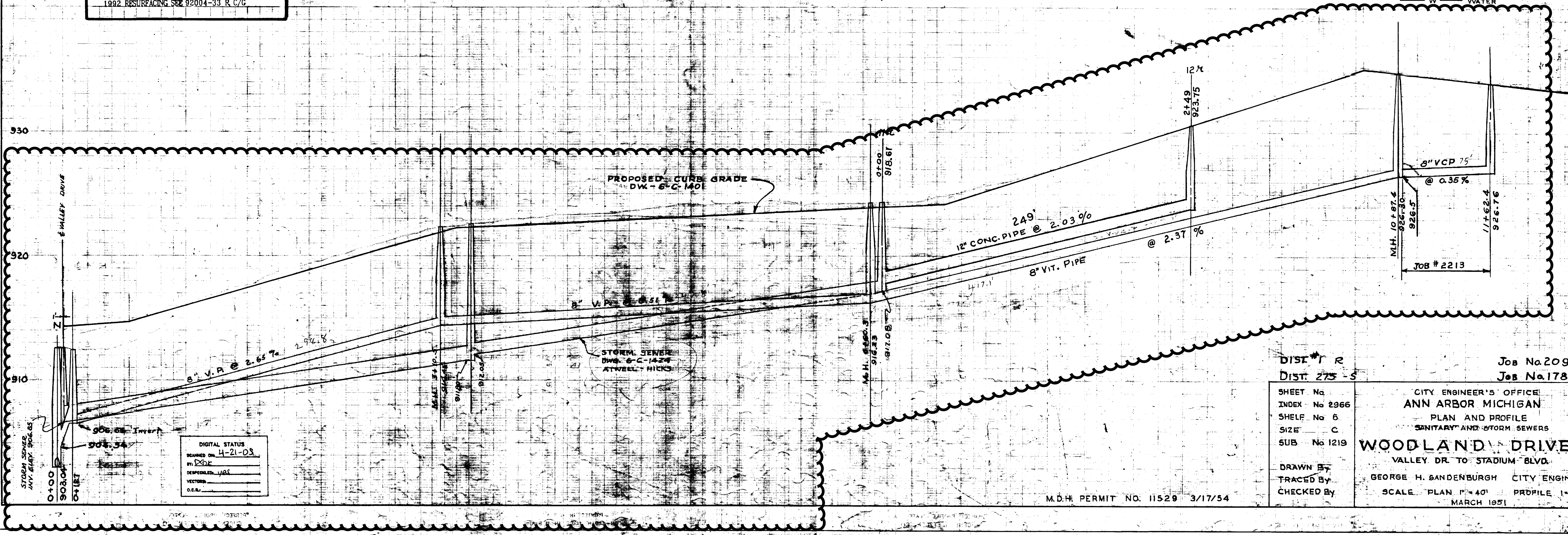
NOTE: ALL INLETS LOCATED ON C.LINE OF LOTS.

REFERENCES
BENCH MARKS-
STADIUM AT HUTCHING 923.90.
DRAWINGS-
PROFILES-
Bk.- 508 Pg.- 40



PHOTOGRAPHED DRAWINGS LEGEND

— A —	EXISTING SANITARY SEWER
— S —	PROPOSED SANITARY SEWER
— R —	EXISTING STORM SEWER
— G —	PROPOSED STORM SEWER
— W —	GAS
— W —	WATER



DIGITAL STATUS
SCANNED ON 4-21-03
BY: DSG
DESIGNED: JMS
VECTOR:
D.C.A.

DISTRICT 275-5
SHEET No. 2966
INDEX No. 6
SHELF No. 6
SIZE C
SUB No. 1219

Job No. 2093 R
Job No. 17895

CITY ENGINEER'S OFFICE
ANN ARBOR MICHIGAN
PLAN AND PROFILE
SANITARY AND STORM SEWERS

WOODLAND DRIVE
VALLEY DR. TO STADIUM BLVD.

DRAWN BY
TRACED BY
CHECKED BY

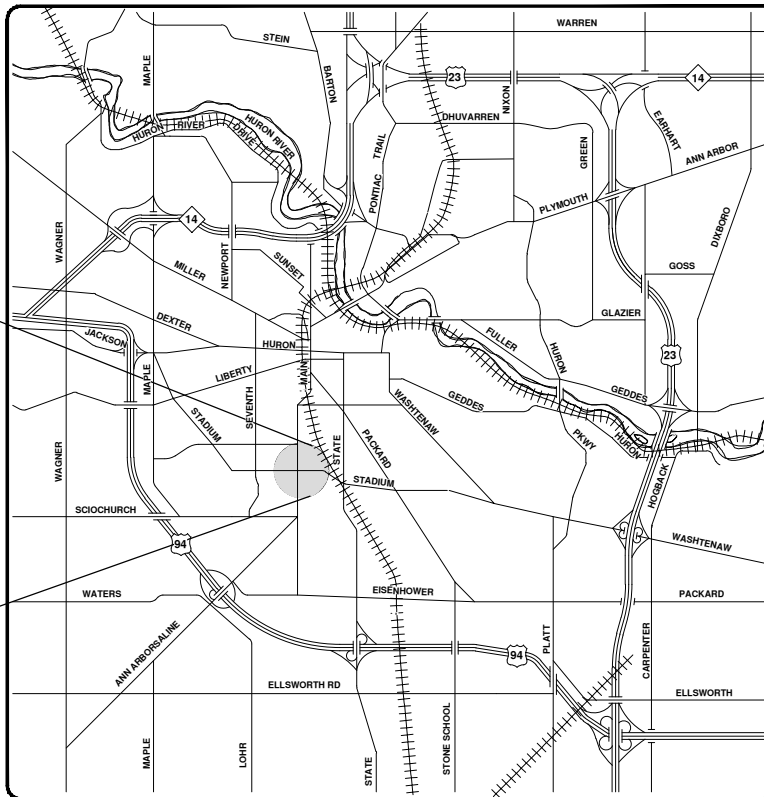
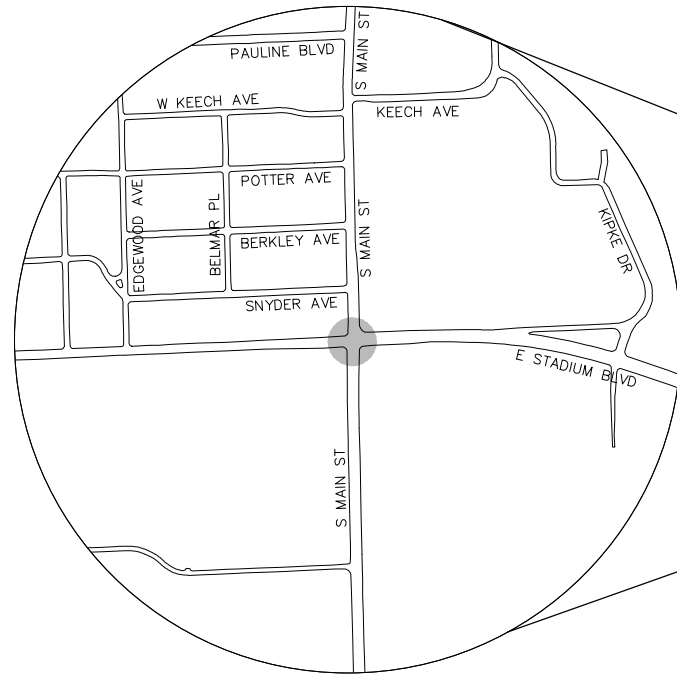
GEORGE H. BANDENBURGH CITY ENGINEER.
SCALE PLAN 1"=40' PROFILE 1"=4'
MARCH 1951

M.D.H. PERMIT NO. 11529 3/17/54



2016 SANITARY SEWER LINING

WEST STADIUM BOULEVARD



VICINITY MAP

S:\Project Management\Drafting\autocad\2015040\2015040Cov.dwg - _g2_standard bw.stb - Plot Date: 4/8/2016 3:16:56 PM



PROJECT MANAGEMENT SERVICES UNIT

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE
 DRAWING No.
 2015040-20

SHEET No.
 20 OF 30

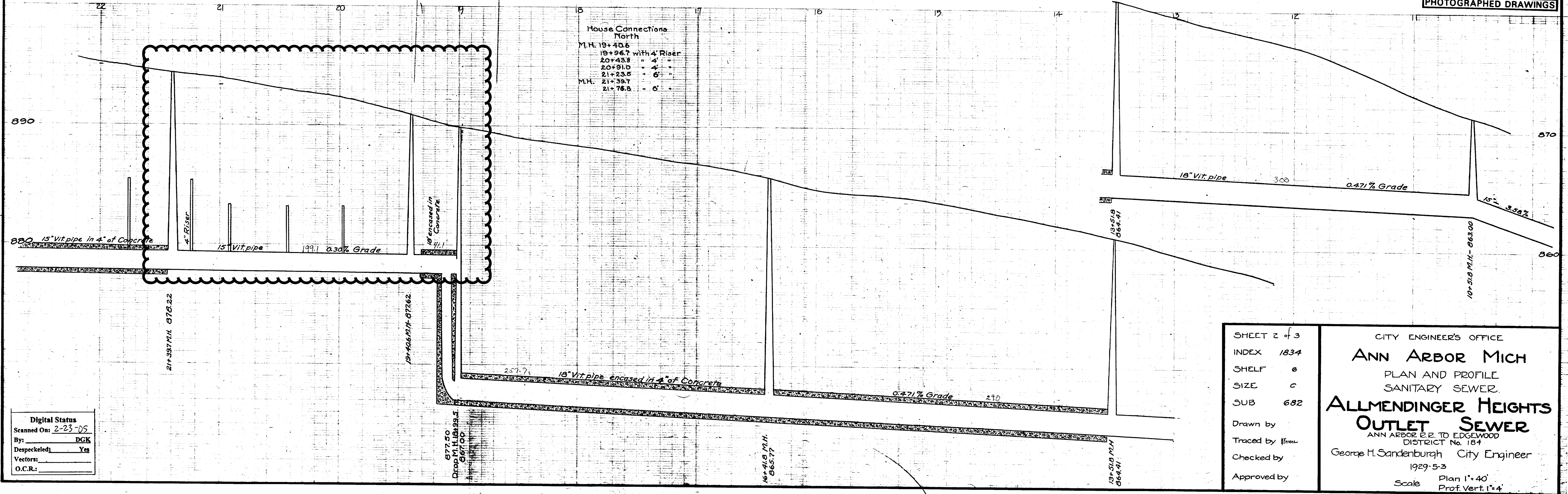
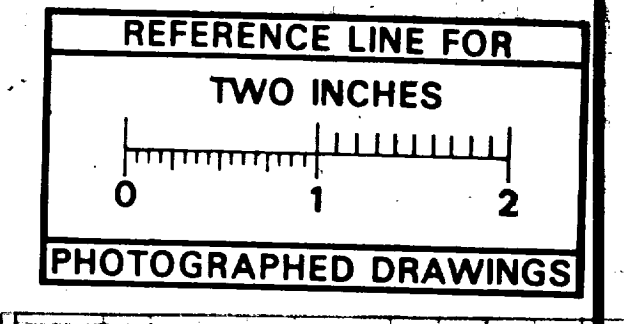
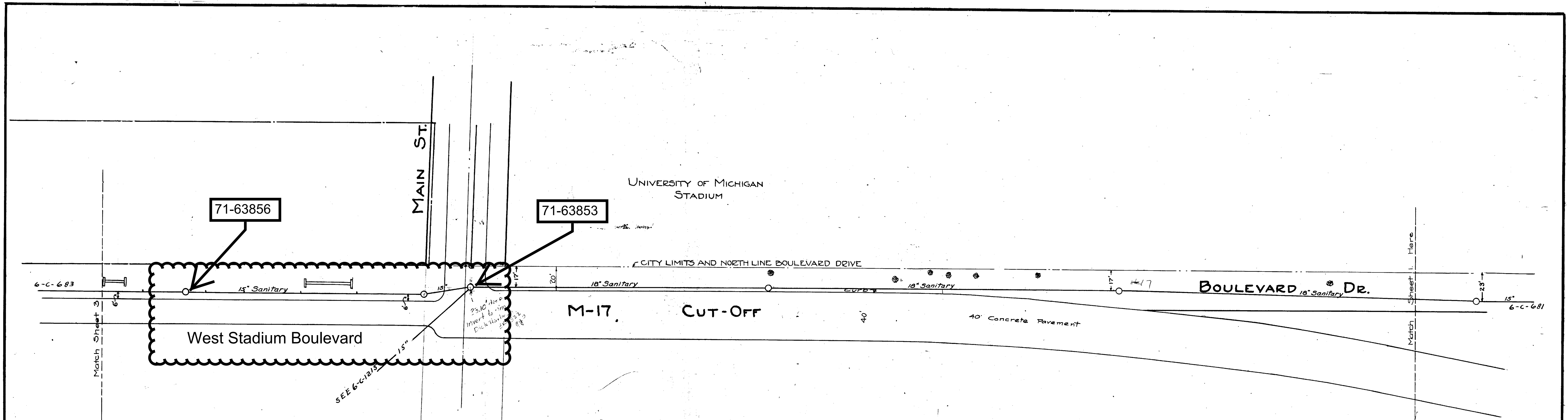
CITY OF ANN ARBOR
 PUBLIC SERVICES
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT FOR BID	4-8-16	DPF	JEN

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By: DGK
Despeckled: Yes
Vectors:
O.C.R.:

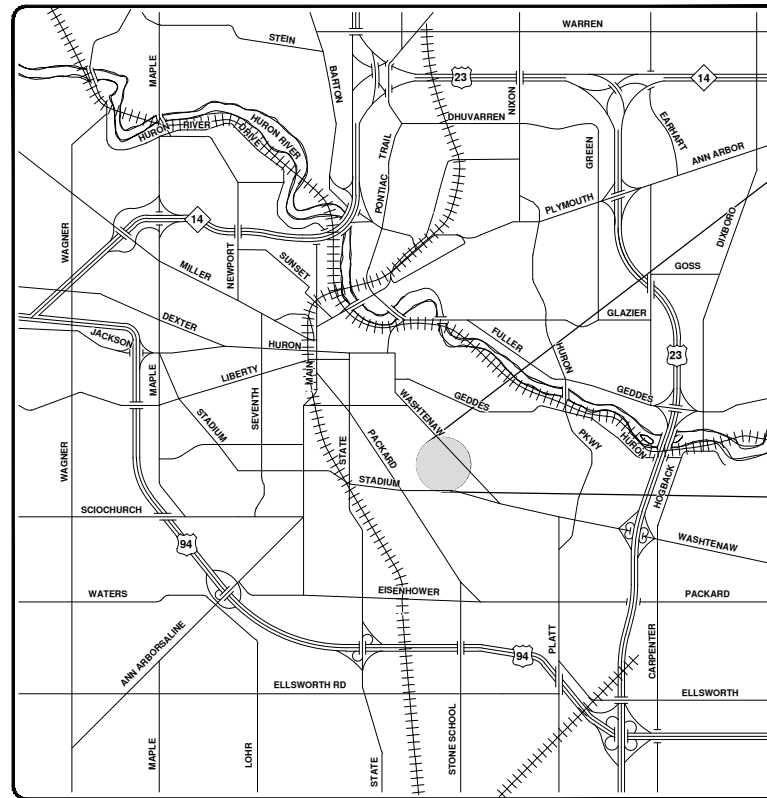
SHEET 2 of 3
INDEX 1834
SHELF e
SIZE c
SUB 682
Drawn by
Traced by [Name]
Checked by
Approved by

CITY ENGINEER'S OFFICE
ANN ARBOR MICH
PLAN AND PROFILE
SANITARY SEWER
ALLMENDINGER HEIGHTS
OUTLET SEWER
ANN ARBOR E.E. TO EDGWOOD
DISTRICT No. 184
George H. Sandenburgh City Engineer
1929-5-3
Plan 1"=40'
Scale Prof. Vert. 1"=4'

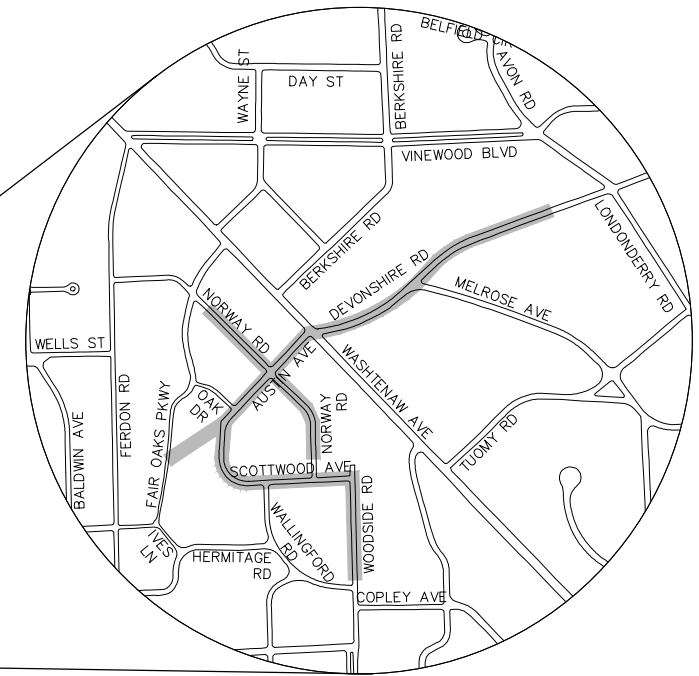


2016 SANITARY SEWER LINING

NORTH IVES WOODS




VICINITY MAP



S:\Project Management\Drafting\autocad\2015040\2015040Cov.dwg - _o2 standard bw.stb - Plot Date: 4/8/2016 3:16:57 PM

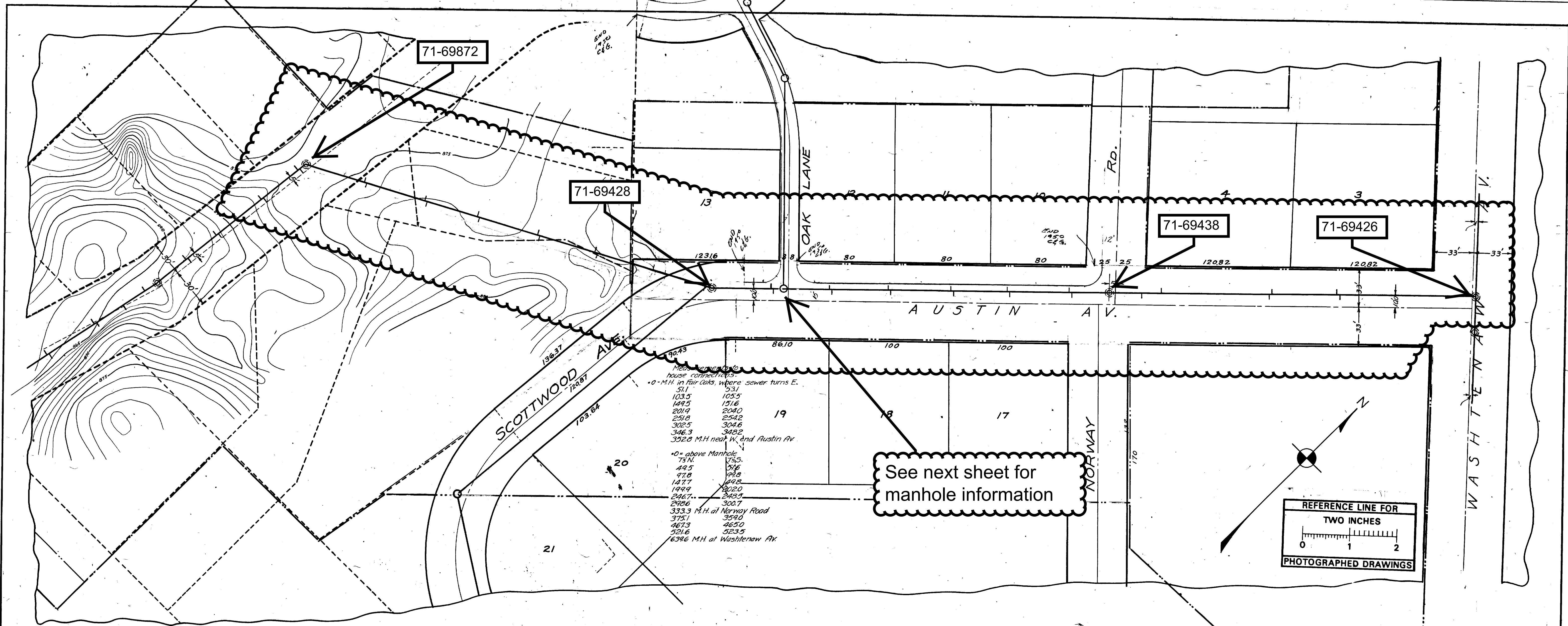


PROJECT MANAGEMENT SERVICES UNIT
 CITY OF ANN ARBOR PUBLIC SERVICES
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 ANN ARBOR, MICHIGAN 48107-8647
 734-794-6410 www.a2gov.org

 <p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org</p>	
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	SHEET No. 22 OF 30
SCALE DRAWING No. 2015040-22	REV.
DESCRIPTION OUT FOR BID	DATE 4-8-16
DRAWN DPF	CHECKED JEN

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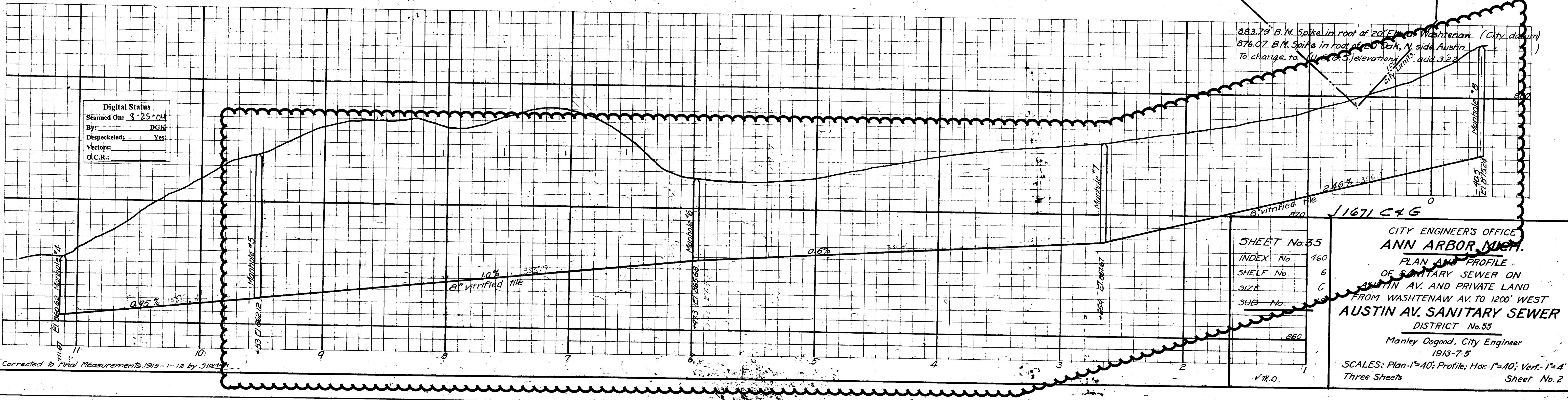
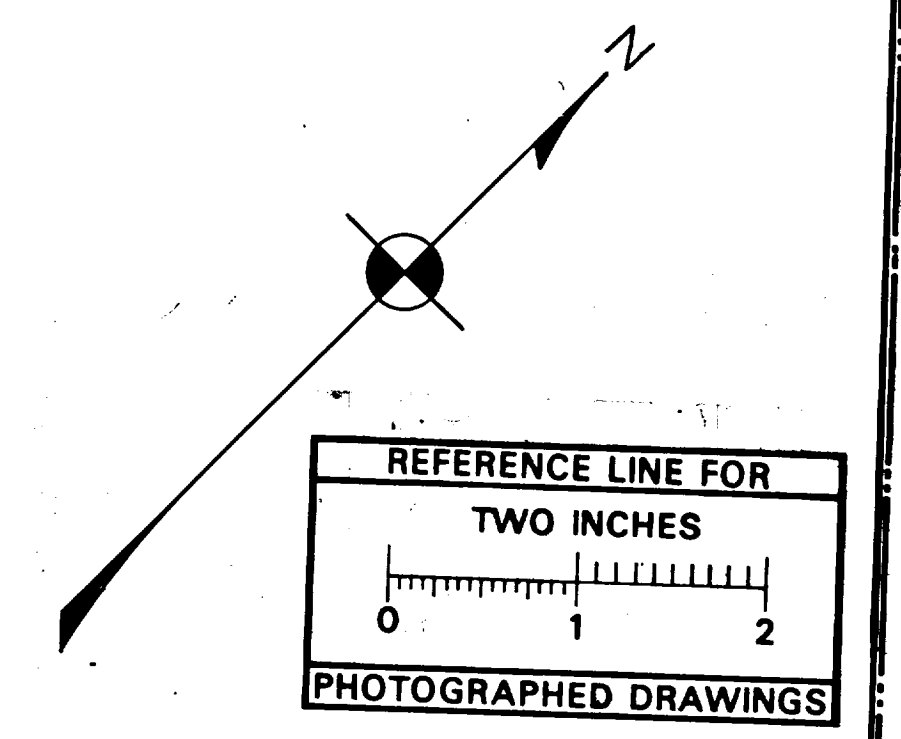
6-C-890
5-C-190



Manhole elevations table:

311	103.5
149.5	151.6
201.9	204.0
251.8	254.2
302.5	304.6
346.3	348.2
352.0	M.H. near W. end Austin Av.
+0 = above Manhole	
75.1	175.3
49.5	51.6
97.8	149.8
147.7	149.8
144.9	202.0
246.7	248.0
288.0	300.7
333.3	M.H. at Norway Road
375.1	354.0
467.3	465.0
521.6	523.9
639.6	M.H. at Washenaw Av.

See next sheet for manhole information

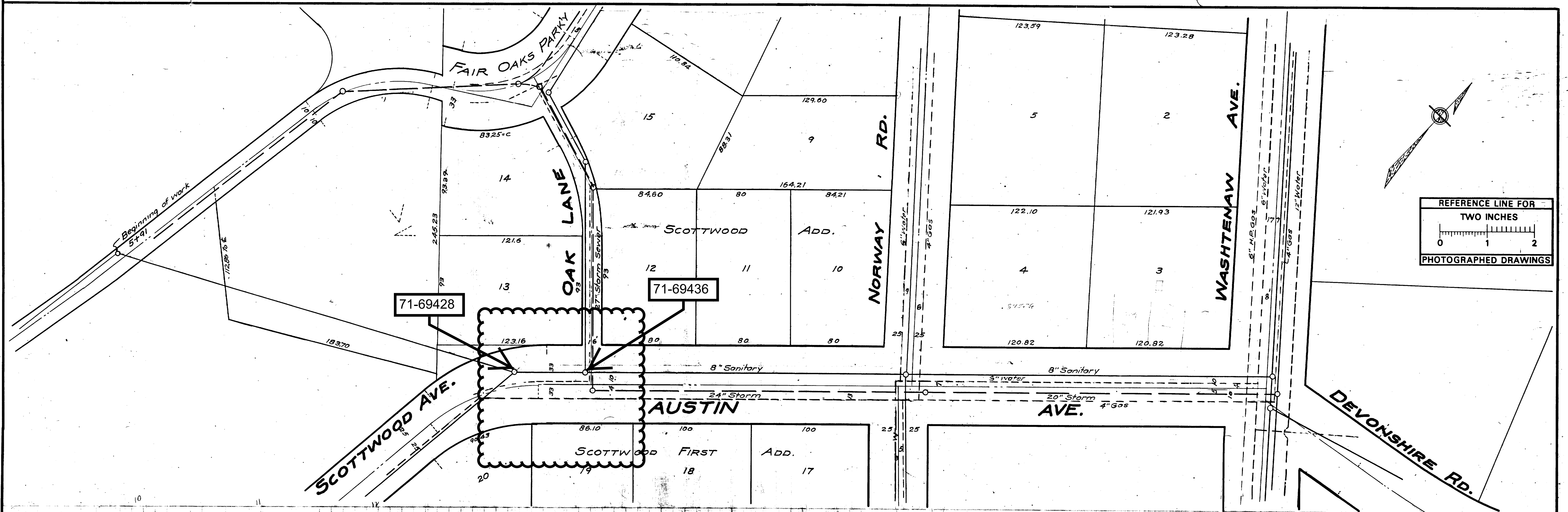


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Vectors:
O.C.R.:

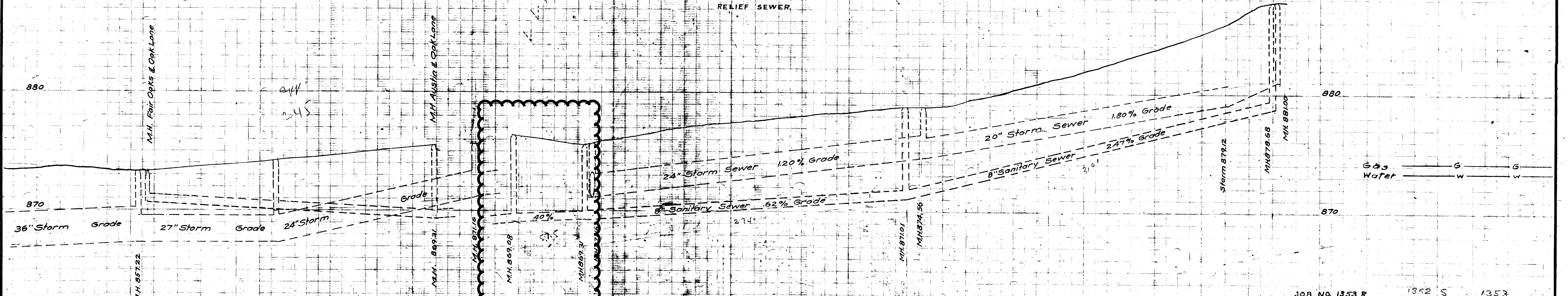
SHEET No. 35
INDEX No. 460
SHELF No. 6
SIZE C
SUB No. 11
V.M.O.

CITY ENGINEER'S OFFICE
ANN ARBOR MICH.
PLAN AND PROFILE
OF SANITARY SEWER ON
AUSTIN AV. AND PRIVATE LAND
FROM WASHENAW AV. TO 1200' WEST
AUSTIN AV. SANITARY SEWER
DISTRICT No. 55
Manley Osgood, City Engineer
1913-75
SCALES: Plan-1"=40'; Profile: Hor-1"=40'; Vert-1"=4'
Three Sheets
Sheet No. 2

Corrected to Final Measurements 1915-1-12 by J1227



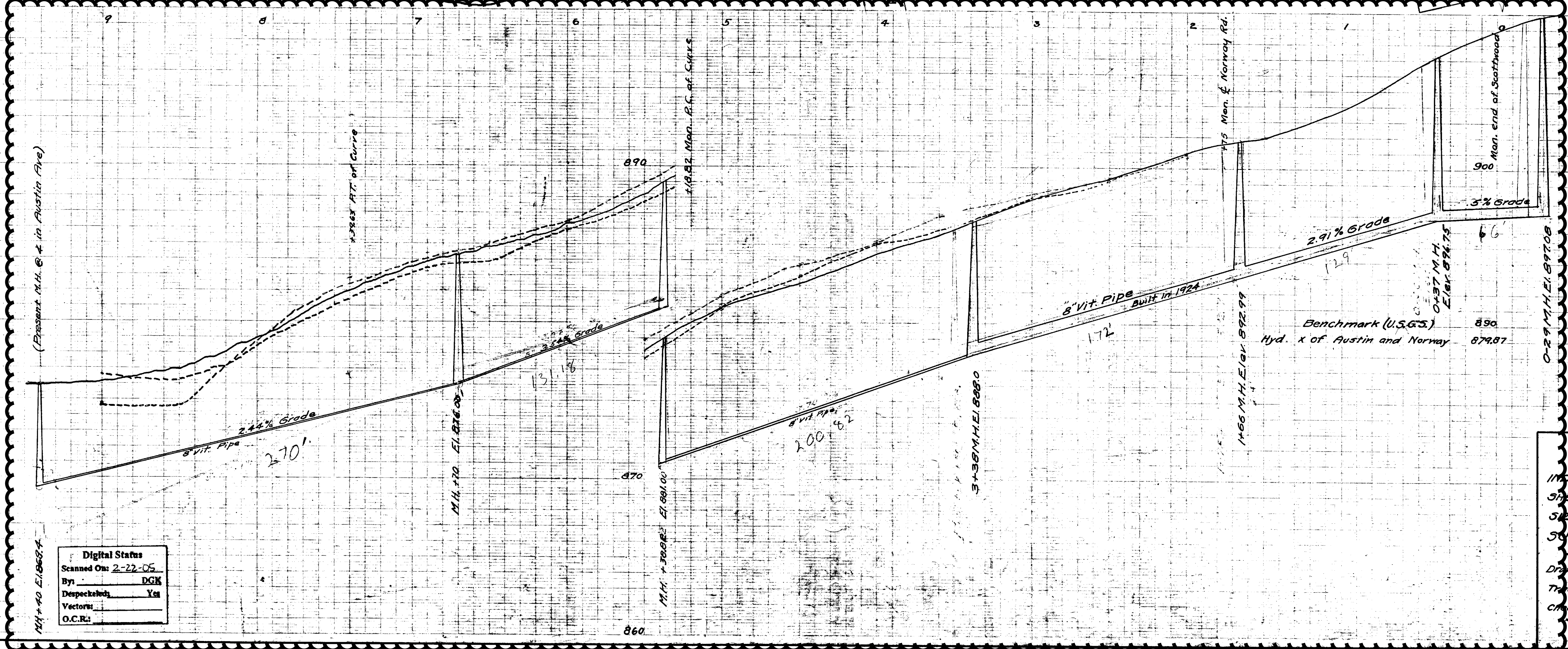
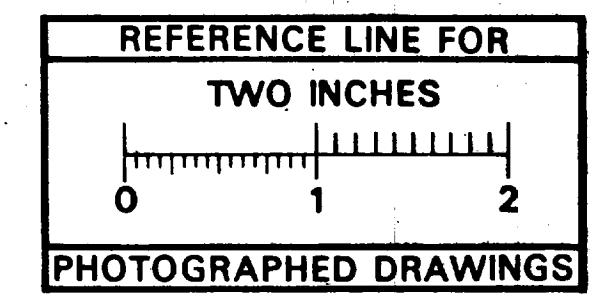
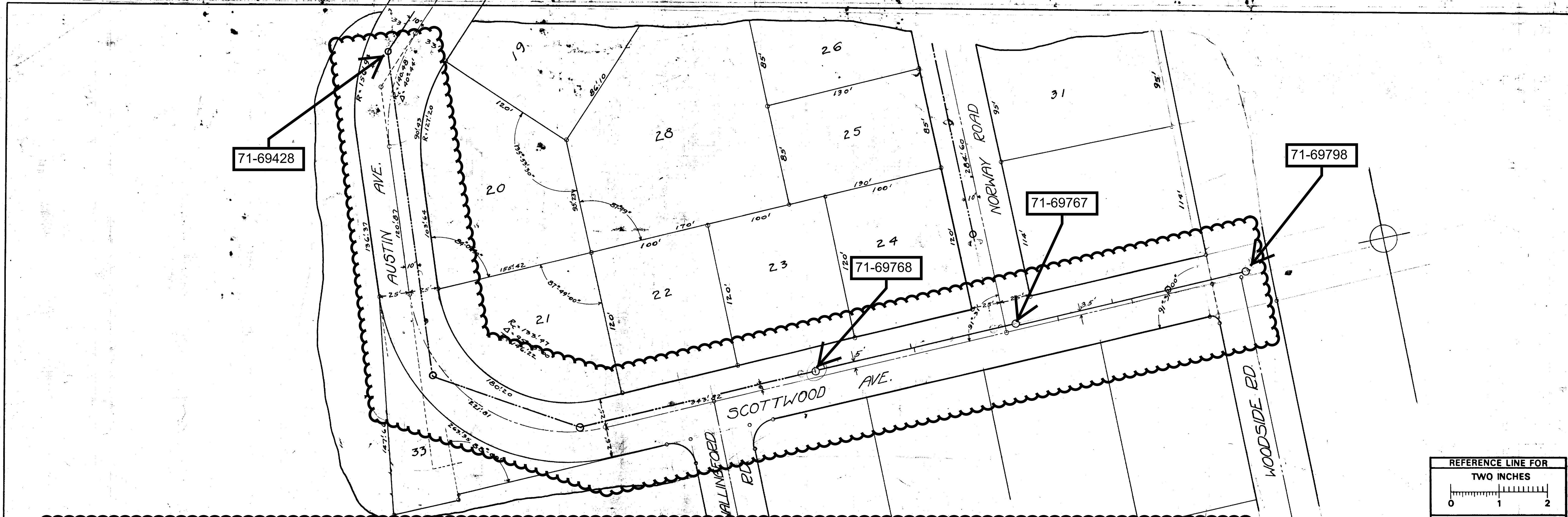
NOTE: SEE 6-C-2234 FOR SANITARY RELIEF SEWER.



Digital Status
Scanned On: 3-1-05
By: DGK
Despeckled: Yel
Vector:
O.C.R.:

JOB NO. 1353 R 1352 S 1353

SHEET No. 2395	CITY ENGINEERS OFFICE
INDEX No. 2395	ANN ARBOR, MICHIGAN
SHELF No. 6	PLAN AND PROFILE
SIZE C	OF
SUB No. 891	SANITARY SEWER
	AUSTIN AVE.
	Washtenaw Ave. to Scottwood Ave.
	Bypass between Washtenaw Ave. and
	Norway Rd.
Drawn by K.W.M.	Geo. H. Sandenburgh, City Engineer
Traced by	1943
Checked by	Scales: Plan 1" = 40'; Profile Vert. 1" = 4'



MEASUREMENTS
TO
HOUSE CONNECTIONS
Y's Only

0+00 W. Prop. Woodside	
North	South
0-29 M.H.	68.4
0+37 M.H.	131.4
84.9	146.6 M.H.
256.3	254.3
330.4	338 M.H.

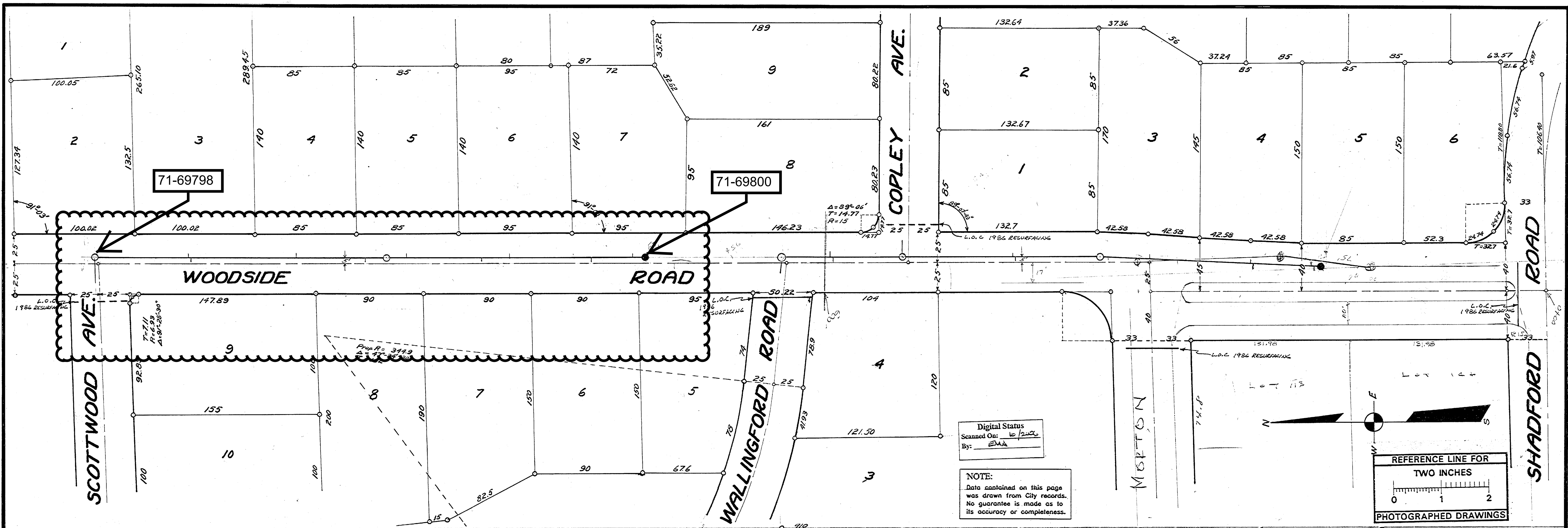
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Scanned On: 2-22-05
By: DGM
Despeckled: Yes
Vectors:
O.C.R.:

INDEX No. 1477
SHELF No. 6
SIZE C
JOB No. 559

Drawn by
Traced by
Checked by

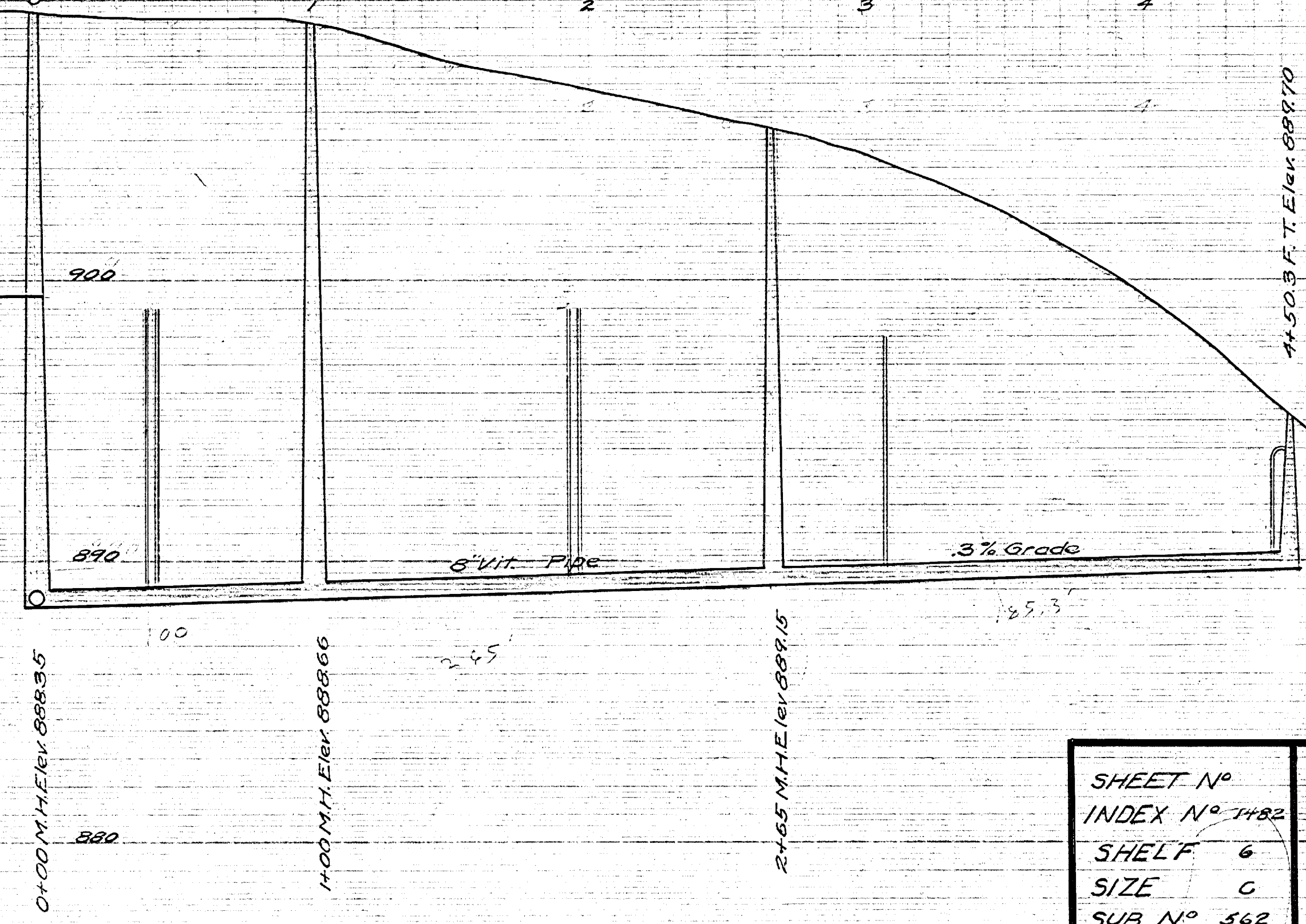
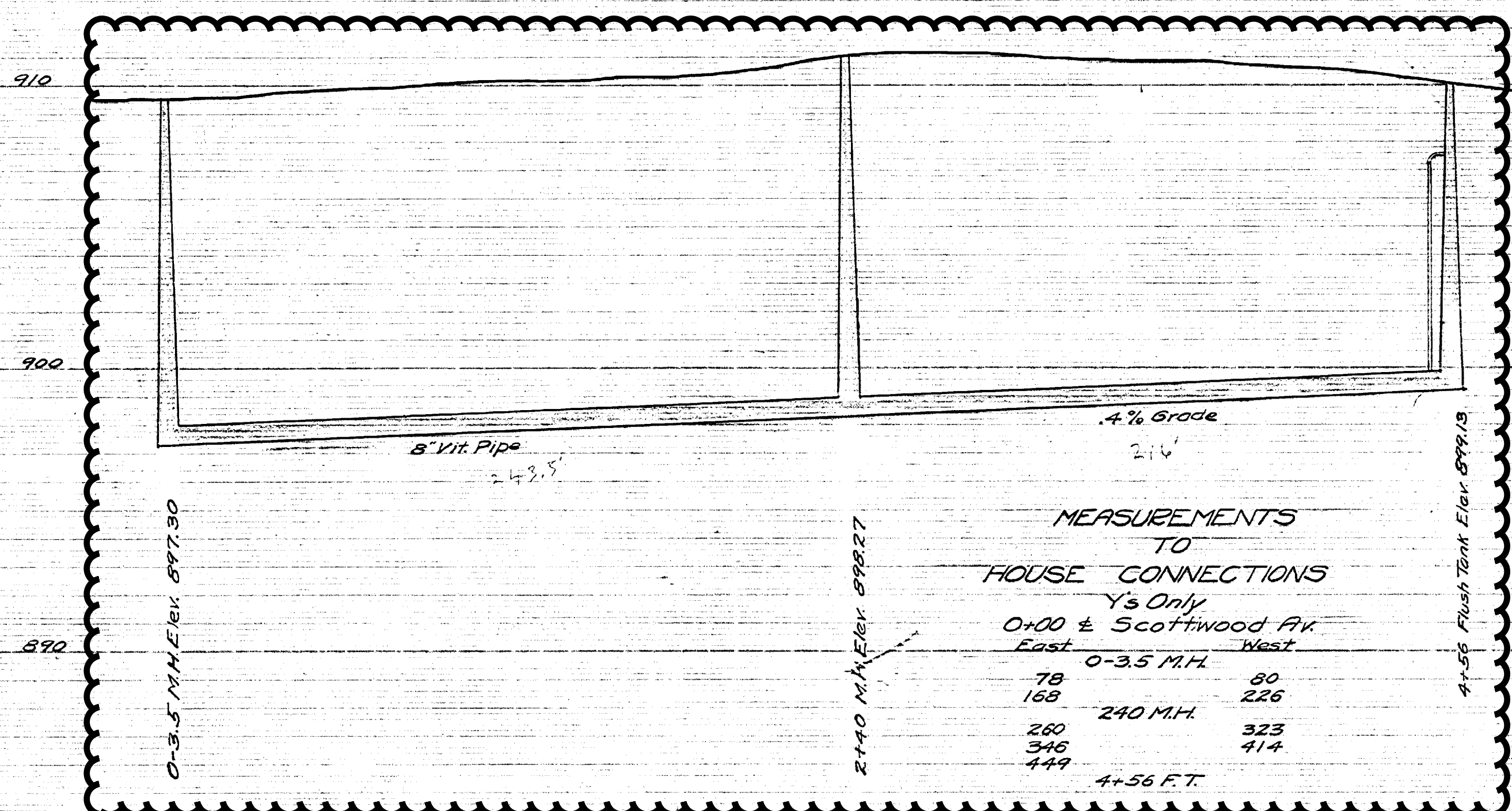
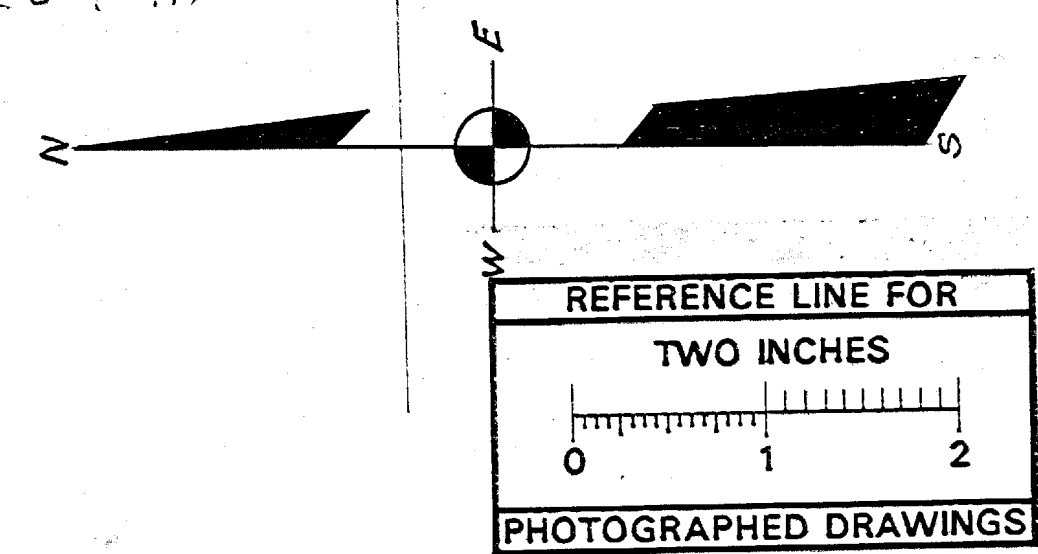
1-17-25

WASHTENAW ENGINEERING CO.
ANN ARBOR, MICH.
PLAN AND PROFILE
OF
SANITARY SEWER
ON
**AUSTIN & SCOTTWOOD
AVENUES**
1916-10-30
Scale: Plan 1/4"=10'; Profile, Hor 1"=40' Vert 1"=4'



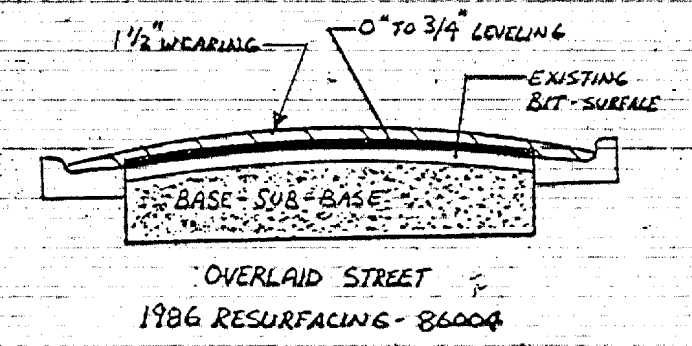
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NOTE:
Data contained on this page
was drawn from City records.
No guarantee is made as to
its accuracy or completeness.

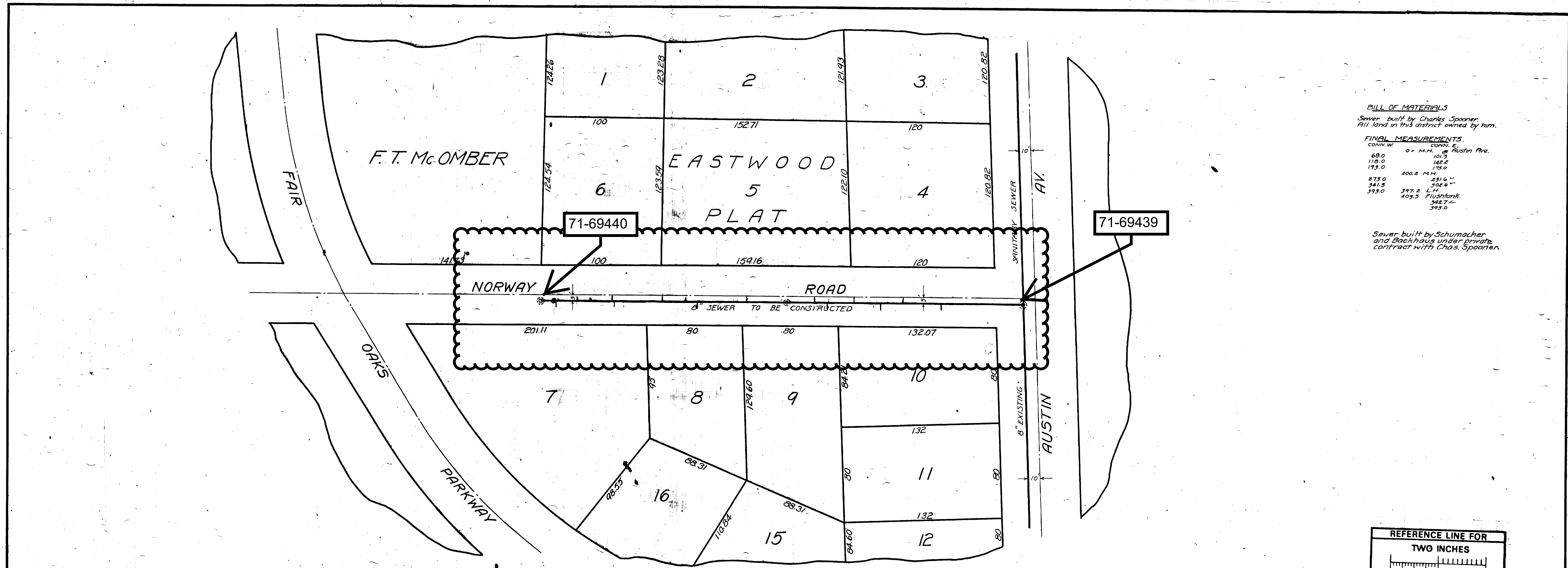


MEASUREMENTS TO HOUSE CONNECTIONS Y's Only

East		West	
40	0+00 M.H.	42	
192	1+00 M.H. @ Copley	194	2+65 M.H.
306		392.5	
390.5		443	
441			
4503 F.T.			



SHEET No INDEX No 1182 SHELF 6 SIZE C SUB No 562	CITY ENGINEER'S OFFICE ANN ARBOR, MICH PLAN AND PROFILE OF SANITARY SEWER ON WOODSIDE ROAD SCOTTWOOD AVE TO SHADFORD ROAD
	Drawn by Traced by LDC Checked by J.A.
	Geo. Sandenburgh City Engineer 1925-1-13 Scales Plan 1"=40' Profile Hor 1"=40' Vert 1"=4'

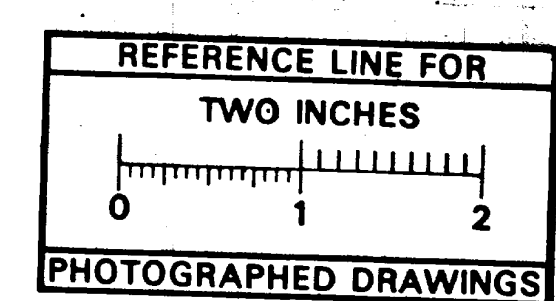


BILL OF MATERIALS
 Sewer built by Charles Spooner
 All land in this district owned by him.

FINAL MEASUREMENTS.

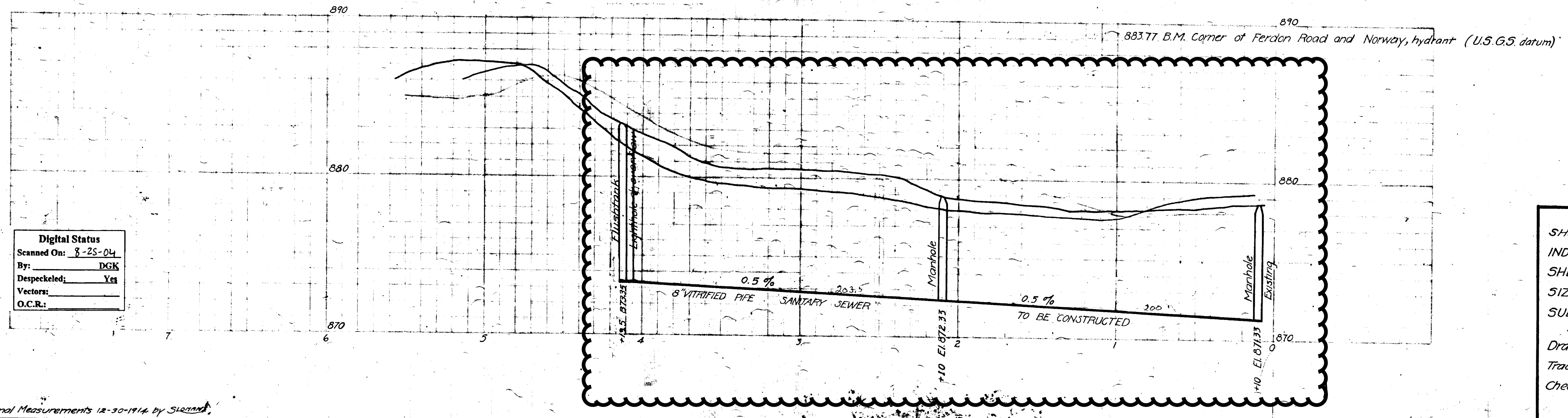
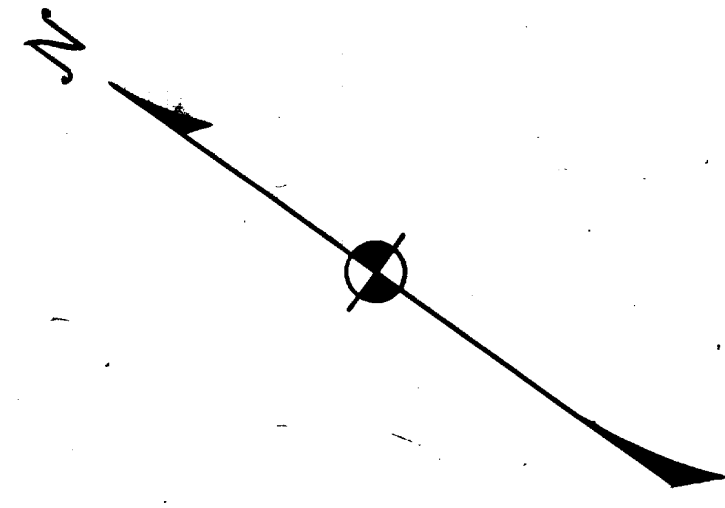
CONTR. W.	CONTR. E.
68.0	101.5
129.0	142.0
193.0	173.0
273.0	200.2 M.H.
341.5	231.6
397.2	262.6
513.0	327.2
	403.5
	487.7
	575.0

Sewer built by Schumacher and Backhaus under private contract with Chas. Spooner.



LEGEND

- Center line of street
- North West sidewalk line
- South West sidewalk line
- Grade line of sewer
- District boundary line



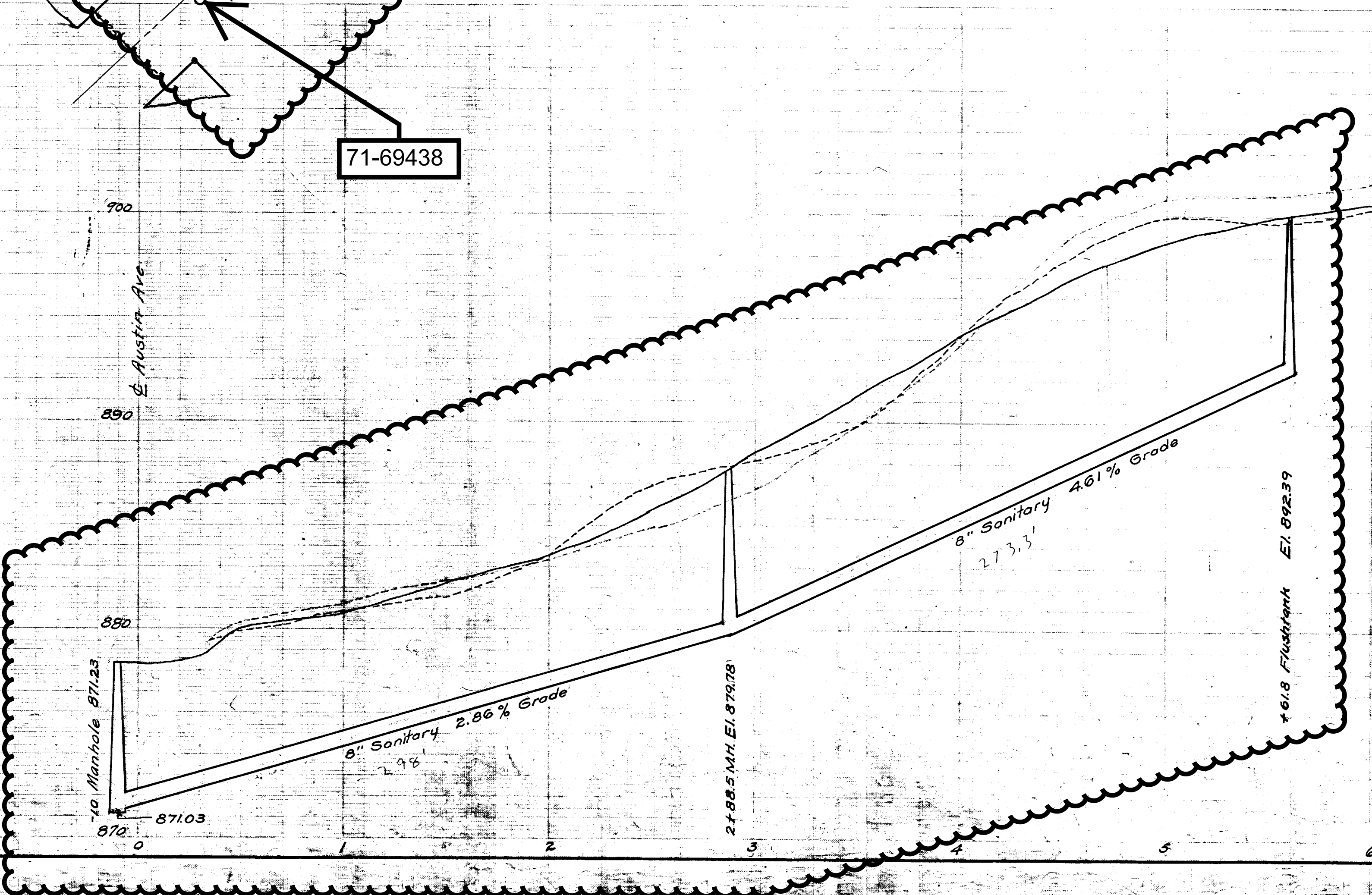
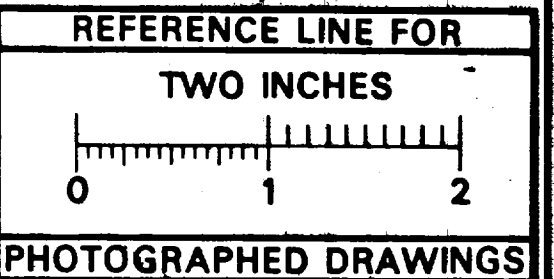
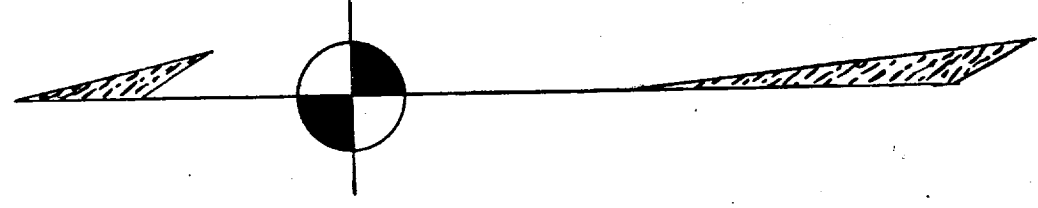
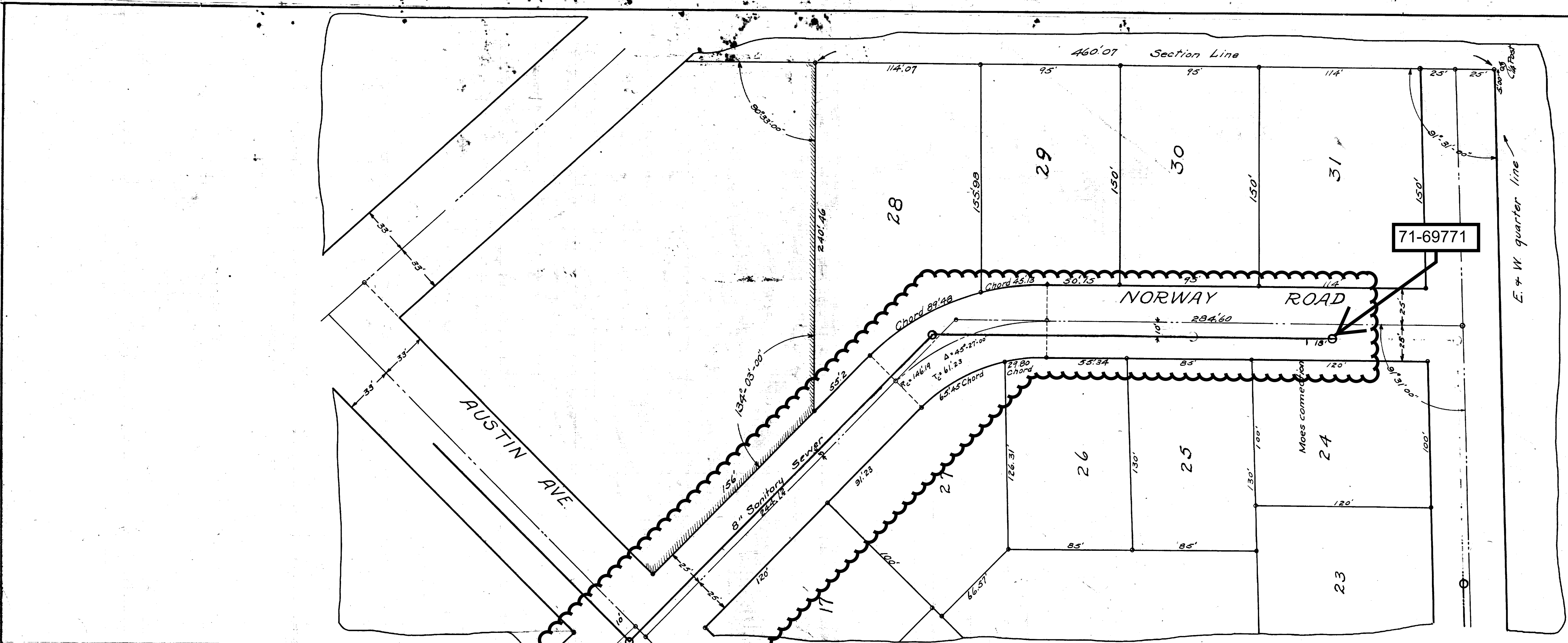
Digital Status
 Scanned On: 8-25-04
 By: DCK
 Despeckled: Yes
 Vector:
 O.C.R.:
 Corrected to Final Measurements 12-30-1914 by Starnad

SHEET No. 229
 INDEX No. 493
 SHELF No. 6
 SIZE C
 SUB No. 51

Drawn by *J.A.*
 Traced by *J.A.*
 Checked by *M.B.*

CITY ENGINEER'S OFFICE
ANN ARBOR, MICH.
 PLAN AND PROFILE
 OF
 SANITARY SEWER
 DISTRICT NO.
NORWAY ROAD
 FROM FAIR OAKS PARKWAY TO AUSTIN AV.
 Manley Osgood, City Engineer
 1914-7-19

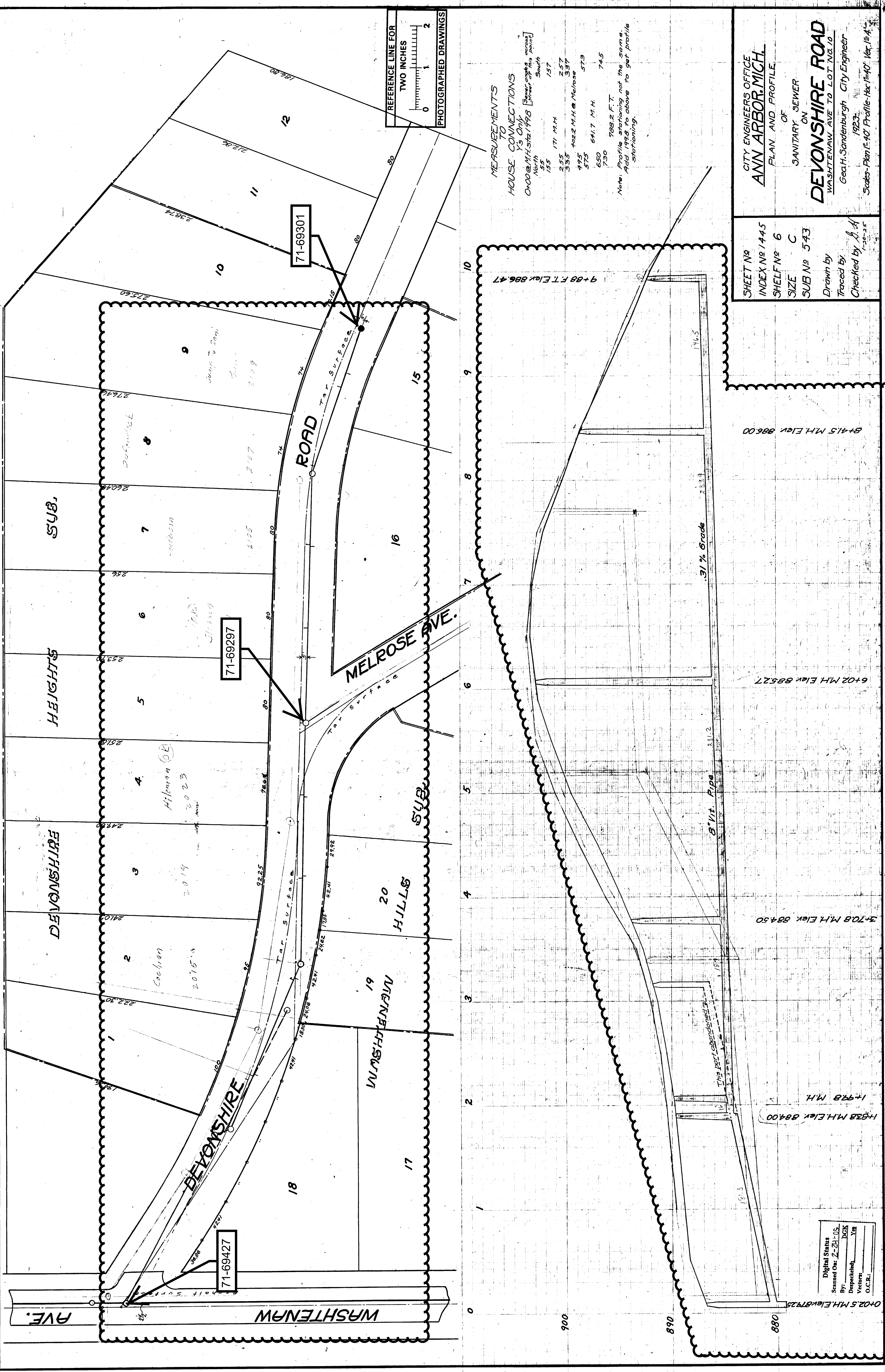
SCALES: Plan, 1"=40'; Profile, Hor. 1"=40', Vert. 1"=4'
 Two Sheets Sheet No. 1



East and Northeast walk -----
 West and Southwest walk -----
 Center Line -----
BENCH MARKS
 B.M. on hydrant at corner Austin Ave.
 and Norway Road EL 879.87

Digital Status
 Scanned On: 2-22-05
 By: DGK
 Despeckled: Yes
 Vectors
 O.C.R.

INDEX No 1478 SHELF No 6 SIZE C SUB No 558 Drawn by Traced by Checked by Corrected 1932 W.W.M.	WASHTENAW ENGINEERING CO. ANN ARBOR, MICH.
	PLAN AND PROFILE OF SANITARY SEWER ON
	NORWAY ROAD AUSTIN AVE. TO SCOTTWOOD
	1916-10-30 Scales: Plan 1"=40'; Profile, Hor. 1"=40', Vert. 1"=4'



REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS

MEASUREMENTS TO HOUSE CONNECTIONS
Y's Only
0+00 @ M.H. Sta. 1998 [Stationing off this point]

North	55	155	171	M.H.	157	257	337
South	155	171	M.H.	157	257	337	417
				402.2	M.H. @ Melrose	573	745
				495		573	745
				573	641.7	M.H.	745
				650			745
				730			745
				788.2	F.T.		

Note: Profile Stationing not the same. Reference to above to get profile stationing.

CITY ENGINEERS OFFICE
ANN ARBOR, MICH.
PLAN AND PROFILE

SANITARY SEWER
ON
DEVONSHIRE ROAD
WASHTENAW AVE. TO LOT NO. 18

Geo. H. Sandenburgh City Engineer
1923
Scale: Plan 1" = 40' Profile 1" = 40' Vert. 1" = 4'

SHEET No
INDEX No 1445
SHELF No 6
SIZE C
SUB No 543

Drawn by
Traced by
Checked by S.H.
7-20-25

Digital Status
Scanned On: 2-23-05
By: DSK
Despatched: Yes
Victory: Yes
O.C.R.: Yes