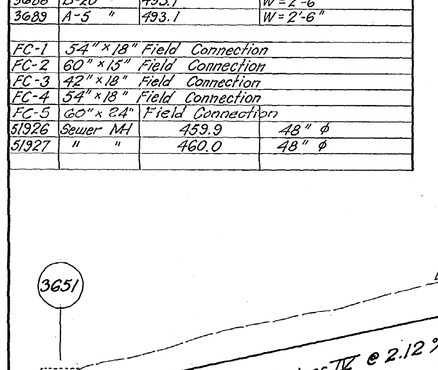
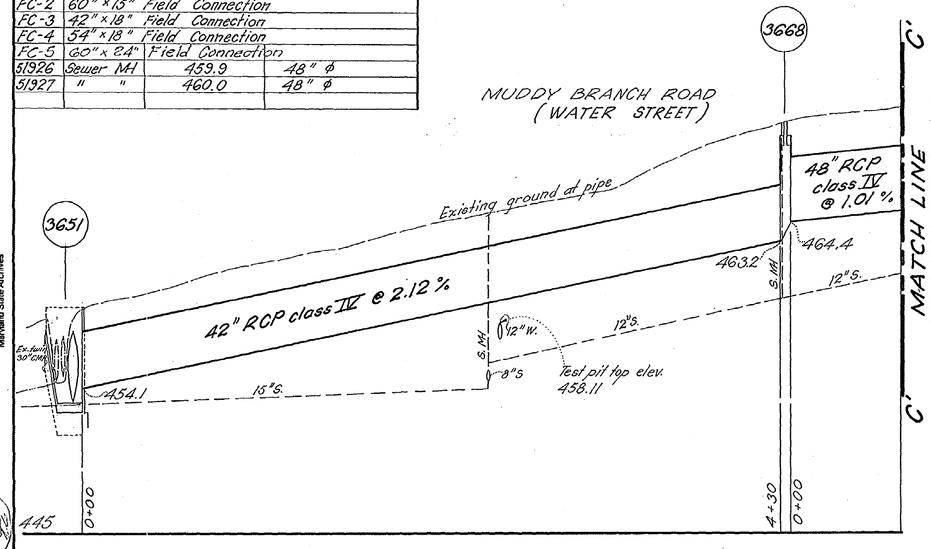
STRUCTURE SCHEDULE

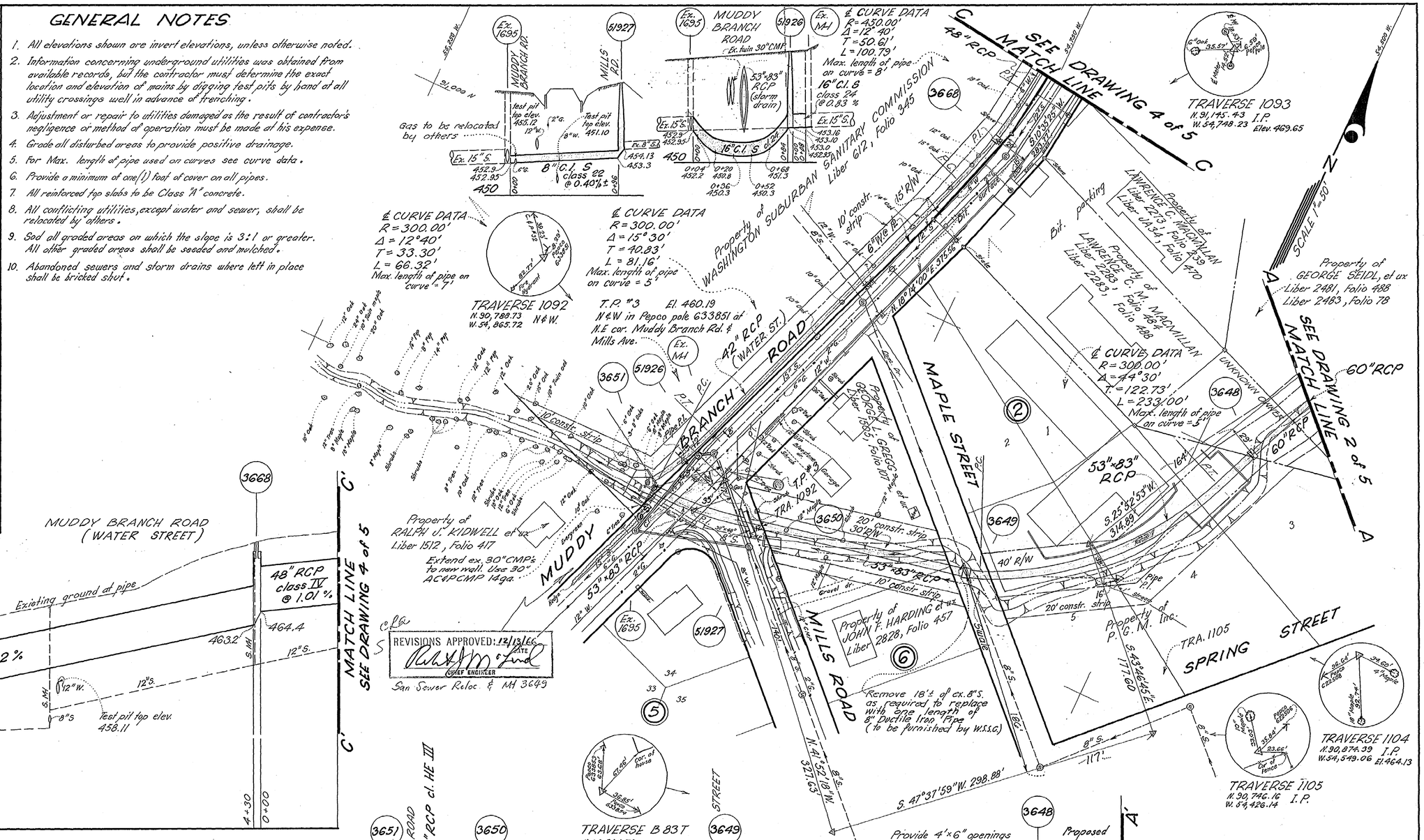
Nº	TYPE	TOP ELEVATIONS Upper	Lower	REMARKS
3640	'B' Manhole	504.0		78" × 48"
3641	'B" "	495.9		66" × 48"
3642	'B" "	493.6		60" ϕ
3643	'B" "	492.9		GG" Modified
3644	'B" "	488.5		72" × 48"
3645	Spec. Inlet	485.8		See Drawing # 5
3646	A-10 "	485.6		W = 2'-6"
3647	'B" Manhole	477.5		72" × 48"
3648	'B" "	467.5		96" × 48"
3649	'B" "	463.7		96" × 48"
3650	A-20 Inlet	460.4		W = 3'-0"
3651	Special Endwall			See Drawing # 5
3652	B-20 Inlet	497.9		W = 2'-6"
3653	E "	496.8		S.R.C.
3654	'B" Manhole	496.7		48" ϕ
3655	'A" "	498.1		48" ϕ
3656	S Inlet	496.6		S.R.C.
3657	'B" Manhole	496.7		72" × 48"
3658	S Inlet	496.4		S.R.C. double
3659	'A" Manhole	493.5		48" ϕ
3660	— — —			
3661	'B" "	486.9		54" ϕ
3662	'B" "	482.0		54" ϕ
3663	'B" "	499.0		48" ϕ
3664	'B" "	475.6		60" ϕ
3665	'B" "	474.8		60" ϕ
3666	B-10 Inlet	475.8		W = 2'-6"
3667	B-10 "	475.1		W = 2'-6"
3668	'B" Manhole	470.5		60" ϕ
3669	'D" Inlet	468.0		
3686	B-10 Inlet	493.3		W = 2'-6"
3687	B-20 "	493.6		W = 2'-6"
3688	B-20 "	493.1		W = 2'-6"
3689	A-5 "	493.1		W = 2'-6"
FC-1	54" × 18" Field Connection			
FC-2	60" × 15" Field Connection			
FC-3	42" × 18" Field Connection			
FC-4	54" × 18" Field Connection			
FC-5	60" × 24" Field Connection			
51926	Sewer M-1	459.9		48" ϕ
51927	" "	460.0		48" ϕ

GENERAL NOTES

1. All elevations shown are invert elevations, unless otherwise noted.
2. Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of mains by digging test pits by hand at all utility crossings well in advance of trenching.
3. Adjustment or repair to utilities damaged as the result of contractor's negligence or method of operation must be made at his expense.
4. Grade all disturbed areas to provide positive drainage.
5. For Max. length of pipe used on curves see curve data.
6. Provide a minimum of one(1) foot of cover on all pipes.
7. All reinforced top slabs to be Class 'A' concrete.
8. All conflicting utilities, except water and sewer, shall be relocated by others.
9. Sod all graded areas on which the slope is 3:1 or greater. All other graded areas shall be seeded and mulched.
10. Abandoned sewers and storm drains where left in place shall be bricked shut.







REVISIONS APPROVED: 12/13/66 DATE
CHIEF ENGINEER
San Sewer Reloc & Mt 3649

DATE	DESCRIPTION
12/13/66	M1 3649 & San. Sewer Relocation
10/19/66	Corrected Job Number

REVISIONS
CONTRACT NO. 0279-D W

DESIGNED V.J.P.
TRACED
CHECKED R.M.
EXAMINED
STARTED DEC. '62

WASHINGTON SUBURBAN SANITARY COMMISSION

APPROVED September 16, 1966 DATE
CHIEF ENGINEER

STORM DRAIN
AUTHOR 11-1-62
JOB NO. 62 DW 1170

SUPERVISION FOR MAIN LINES ONLY REQUIRED BY DEPT. OF STATE FORESTS & PARKS BALTIMORE, MD.

EXAMINED FOR		
WATER — SEWER		9/19/66
R/W REQ'D		9/19/66
OTHER UTILITIES		9/19/66

Ben Dyer Associates, Inc. 779-6500
ENGINEERS — SURVEYORS
4703 QUEENSBURY ROAD
RIVERDALE, MARYLAND

CONTRACT NO. 0279-D W

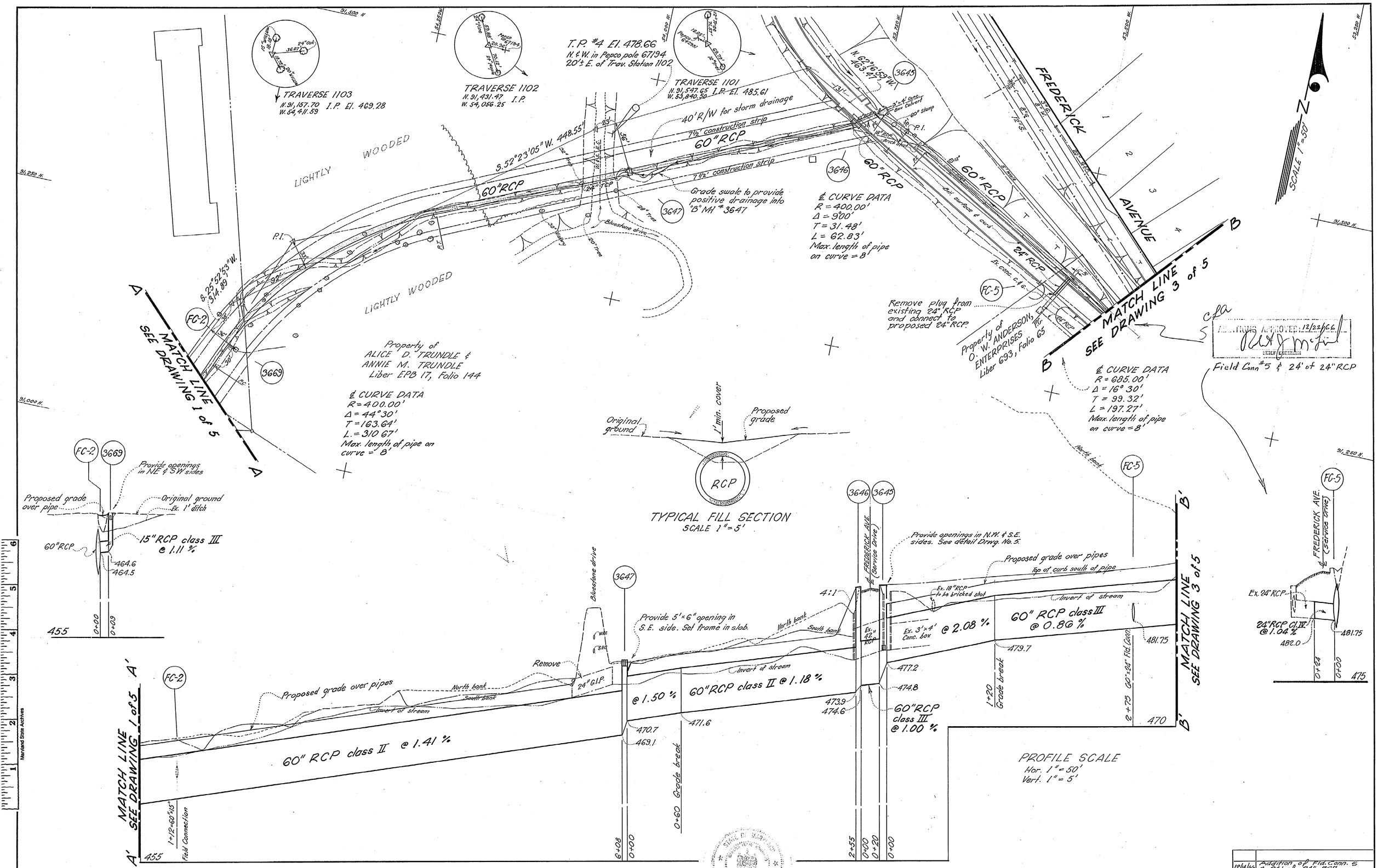
GAITHERSBURG DISTRICT, MONTGOMERY COUNTY, MD.
STORM DRAINAGE
VICINITY OF FREDERICK AVE. AT B. & O. R-R GAITHERSBURG

DRAWING NO. 1 OF 5

223 NW-10
63035
Y

CE 487-234-1

SD FILE NO. 235



DATE	DESCRIPTION
12/14/66	Addition of Fld. Conn. 5 & 24' of 24" RCP.
10/19/66	Corrected Job Number

REVISIONS

CONTRACT NO. 0279-DW

DESIGNED V.J.P. TRACED CHECKED EXAMINED STARTED DEC. '62	WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED September 16, 1966 DATE CHIEF ENGINEER	STORM DRAIN AUTHOR 11-1-62 JOB NO. 62 DW 1170	SUPERVISION FOR MAIN LINES ONLY REQUIRED BY DEPT. OF STATE FORESTS & PARKS BALTIMORE, MD.	EXAMINED FOR WATER-SEWER R/W REQ'D OTHER UTILITIES	Ben Dyer Associates, Inc. 779-8500 ENGINEERS - SURVEYORS 4705 QUEENSBURY ROAD RIVERDALE, MARYLAND	CONTRACT NO. 0279-DW

GAITHERSBURG DISTRICT
STORM DRAINAGE
VICINITY OF FREDERICK AVE. AT B. & O. R-R
GAITHERSBURG

DRAWING NO. 2 OF 5

223 NW-9 & 10
63036
Y
46 NW 18-1
46 NW 19-2
D 62186

CE487-234-2

SD FILE NO. 235

T.P. #5 El. 490.03
N. & W. in Pepco pole at int. of Frederick Ave. & Route 124

MATCH LINE B SEE DRAWING 2 of 5

FREDERICK AVENUE (Md. Rt. 355)

℄ CURVE DATA
R = 270.00'
Δ = 29° 30'
T = 71.09'
L = 139.02
Max. length of pipe on curve = 6

℄ CURVE DATA
R = 685.00'
Δ = 16.30'
T = 99.32'
L = 197.27'
Max length of pipe on curve = 8

TRAVERSE 1100
T.P.

TRAVERSE 1098
N. 91,303.76
W. 52,907.47 El. 495.36

TRAVERSE 1097
N. 91,250.45 I.P.
W. 52,409.30

TRAVERSE 1099
N. 91,116.33 I.P. El. 493.14
W. 53,133.47

OAK AVE.

CEDAR AVENUE

SUMMIT AVENUE

N. 83°53'28" W. 500.98'

Property of O. W. ANDERSON, ENTERPRISES Liber 693 Folio 65

Property of E. LEE GARTNER

Property of Wm. E. NORMAN et ux

Property of B. & O. R-R

Property of BAKER

Property of HAROLD C. MORRIS et ux

Remove ex. paving, gate & endwall as required and build manhole over end of ex. 43" × 68" RCP.

Transition sleeve
Existing 6" or 8" water main
R.C.P. Storm Drain
Test pit top elev. shown
6" or 8" ⅛ V.B.'s
Provide 0.5' minimum clearance

For details of welding & painting the steel pipe see standard detail # G51239-L

WATER MAIN LOWERING
SCALE 1" = 5'

SCALE 1" = 50'

18" RCP cl. V @ 5.45 %
Ex. 18" G.I.P.
Conduit

24" RCP cl. IV @ 1.71 %
21" RCP cl. V @ 1.29 %
18" RCP cl. V @ 1.25 %
Provide 2' of low cradle 9" each side of PEPCO conduit. Cradle to extend to bottom of conduit.
Telephone conduit
PEPCO conduit Relocated
Test pit top elev. 488.17

15" RCP cl. IV @ 3.33 %

54" RCP class IV @ 0.99 % To be lowered
54" RCP class IV @ 0.92 %
54" RCP class IV @ 1.01 %
48" RCP class IV @ 0.88 %

Existing ground
Finish grade
Invert of stream @ pipe ℄
North bank
South bank

Set MH frame in slab 4" × 6" openings in S.E. & N.W. sides. Use 5'-0" × 4" × 4" × ¼" JL lintels.

Provide 1" expansion joint material between top of pipe and bottom of curb and gutter.

Telephone conduit to be relocated by others.

Pepco conduit to be relocated by others.

Gas to be relocated by others

8"W. test pit top elev. 487.84 To be lowered, see detail this drawing.

test pit top elev. 484.33

8"S.HC. test pit top elev. 482.22

Provide 2' of low cradle 9" each side of 8"S.HC. Cradle to extend to bottom of S.HC.

1+16 54"×18" field connection

Ex. 53"RCP

Ex. 68"×43" RCP

PROFILE SCALE
Hor. 1" = 50'
Vert. 1" = 5'

STATE OF MARYLAND — CHARLES VERNON PHILLIPS — No. 4139 — REGISTERED PROFESSIONAL ENGINEER

C. V. Crocker 8-23-66

8/9	10/9/66 Corrected Job Number
DATE	DESCRIPTION
REVISIONS	
CONTRACT NO. 0279-DW	

DESIGNED	V.J.P.
TRACED	
CHECKED	
EXAMINED	
STARTED	DEC. '62

WASHINGTON SUBURBAN SANITARY COMMISSION

APPROVED September 16, 1966 (DATE)
CHIEF ENGINEER

STORM DRAIN
AUTHOR
11-1-62
JOB NO.
62 DW 1170

SUPERVISION FOR MAIN LINES ONLY REQUIRED BY DEPT. OF STATE FORESTS & PARKS BALTIMORE, MD.

EXAMINED FOR		
WATER	SEWER	
R/W REQ'D		
OTHER UTILITIES		

Ben Dyer Associates, Inc.
779-8500
ENGINEERS – SURVEYORS
6705 QUEENSBURY ROAD
RIVERDALE, MARYLAND

CONTRACT NO. 0279-DW

GAITHERSBURG DISTRICT
STORM DRAINAGE
VICINITY OF FREDERICK AVE. AT B. & O. R-R
GAITHERSBURG

DRAWING NO. 3 OF 5

223 NW-9
63037
Y
46 NW 18-142

D 62186

CE 487-234-3

SD FILE NO. 235

Maryland State Archives

DATE	DESCRIPTION
10/19/66	Corrected Job Number

REVISIONS

CONTRACT NO. 0279-DW

DESIGNED V.J.P.
TRACED
CHECKED
EXAMINED
STARTED DEC. '62

WASHINGTON SUBURBAN SANITARY COMMISSION

APPROVED September 16, 1966
CHIEF ENGINEER

STORM DRAIN
AUTHOR
11-1-62
JOB NO.
62 DW 1170

SUPERVISION FOR MAIN LINES ONLY REQUIRED BY DEPT. OF STATE FORESTS & PARKS BALTIMORE, MD.

EXAMINED FOR
WATER - SEWER
R/W REQ'D
OTHER UTILITIES

Ben Dyer Associates, Inc. 779-8500
ENGINEERS - SURVEYORS
4705 QUEENSBURY ROAD
RIVERDALE, MARYLAND

CONTRACT NO. 0279-DW

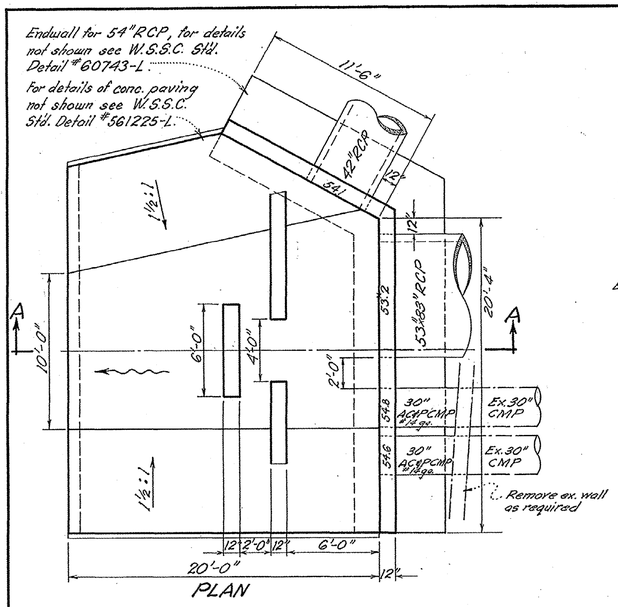
GAITHERSBURG DISTRICT
STORM DRAINAGE
VICINITY OF FREDERICK AVE. AT B. & O. R-R
GAITHERSBURG

DRAWING NO. 4 OF 5

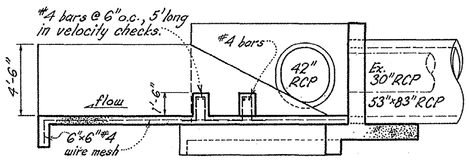
223 NW-10
224 NW-10
63038
Y
46 NW 19-2
47 NW 19 4
D-62186

CE 487-234 -4

SD FILE NO. 235



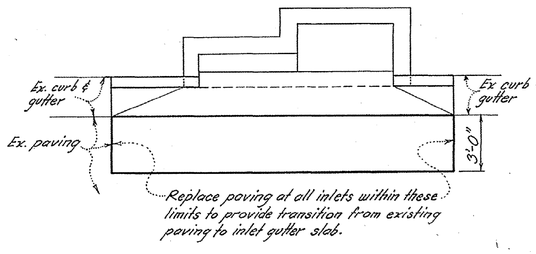
PLAN



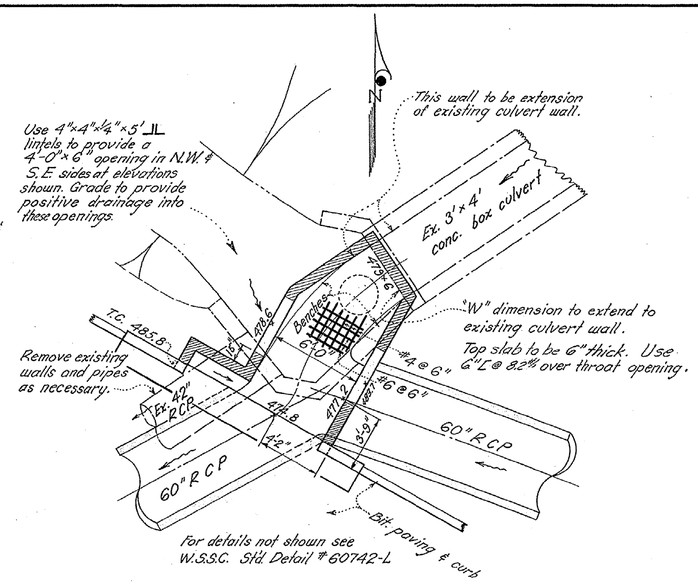
SECTION A-A

DETAIL OF ENDWALL #3651

SCALE 1"=5'

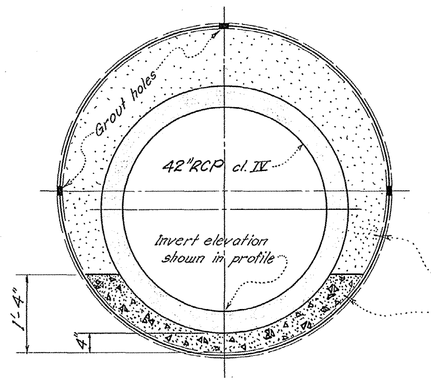


PAVING REPLACEMENT



DETAIL OF #3645 Modified B-10

SCALE 1"=5'



NOTE:

68" diameter tunnel liner plate. Provide grouting plugs in assembled ring. Position of plugs in assembled rings to be left side, top side, right side, etc. at maximum spacing of 4'-6".

Use temporary wooden bulkheads to retain sand in tunnel during backfilling.

Fill space between tunnel liner plate & earth with 1:3 cement grout applied under pressure.

Backfill with sand.

Class 'C" concrete.

68" neutral axis metal tunnel liner, Armco 12 gage or Truscon 3/16" or Commercial 3/16" or approved equivalent.

DETAIL OF TUNNEL LINER UNDER B.&O. R-R TRACKS

SCALE 3/4"=1'-0"

C.T. Cochran 8-23-66

DATE	DESCRIPTION
	REVISIONS
10/19/66	Corrected Job Number

CONTRACT NO. 0279-DW

DRAWN / TRACED / CHECKED / EXAMINED / STARTED	WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED September 16, 1966 (DATE) Chief Engineer	STORM DRAINAGE / AUTHOR / 11-1-62 / JOB NO. / 62-DW-1170	SUPERVISION FOR MAIN LINES ONLY REQUIRED BY DEPT. OF STATE FORESTS & PARKS BALTIMORE, MD.	EXAMINED FOR: WATER SEWER; R/W REQ'D; OTHER UTILITIES	Bess Dyes Associates, Inc. 779-8500 ENGINEERS – SURVEYORS 4705 QUEENSBURY ROAD RIVERDALE, MARYLAND	CONTRACT #0279-DW	GAITHERSBURG DISTRICT STORM DRAINAGE VICINITY OF FREDERICK AVE. AT B. & O. R-R GAITHERSBURG	DRAWING NO. 5 OF 5	63039 Y

CE487-234-5

SD FILE NO. 235

D-62186

Maryland State Archives