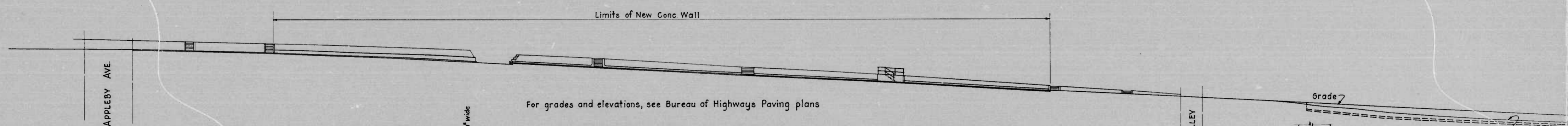
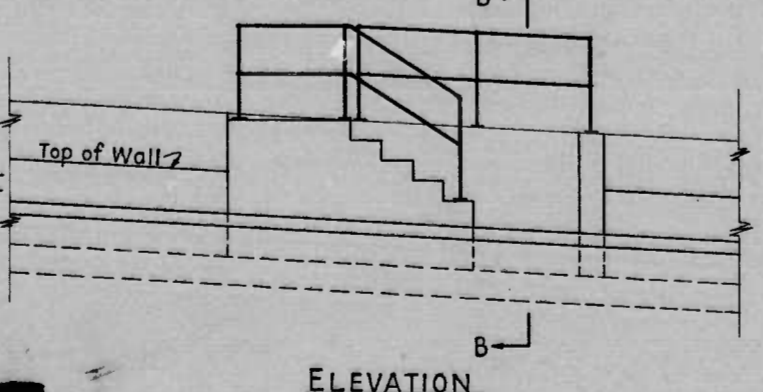
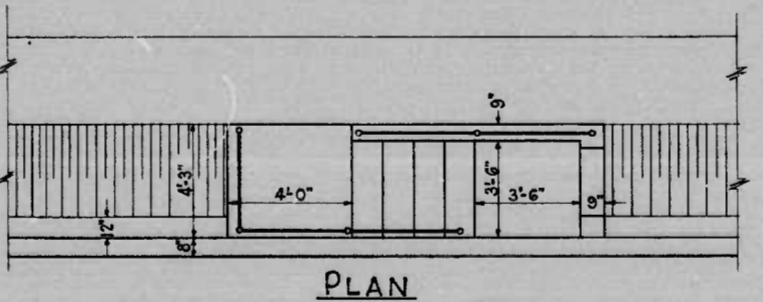
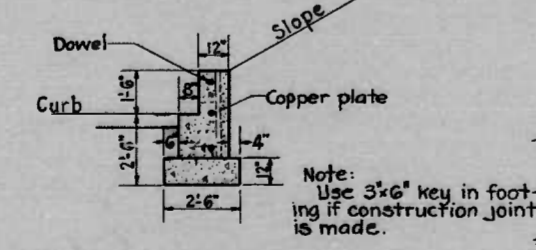
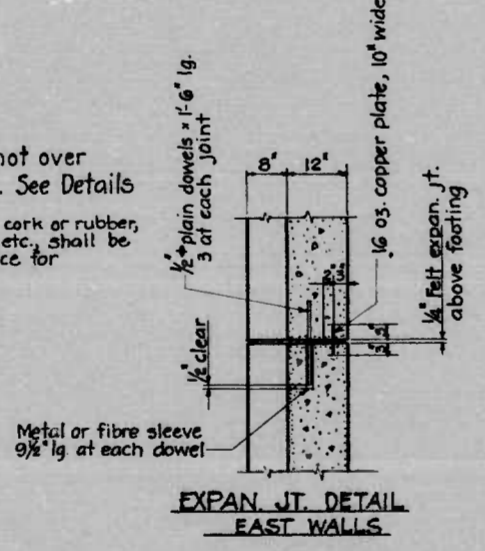


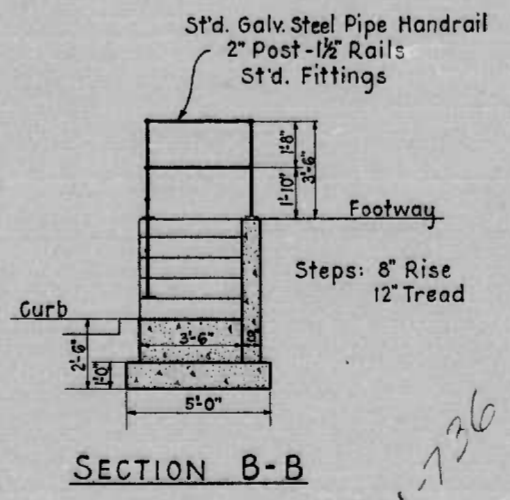
BC-161



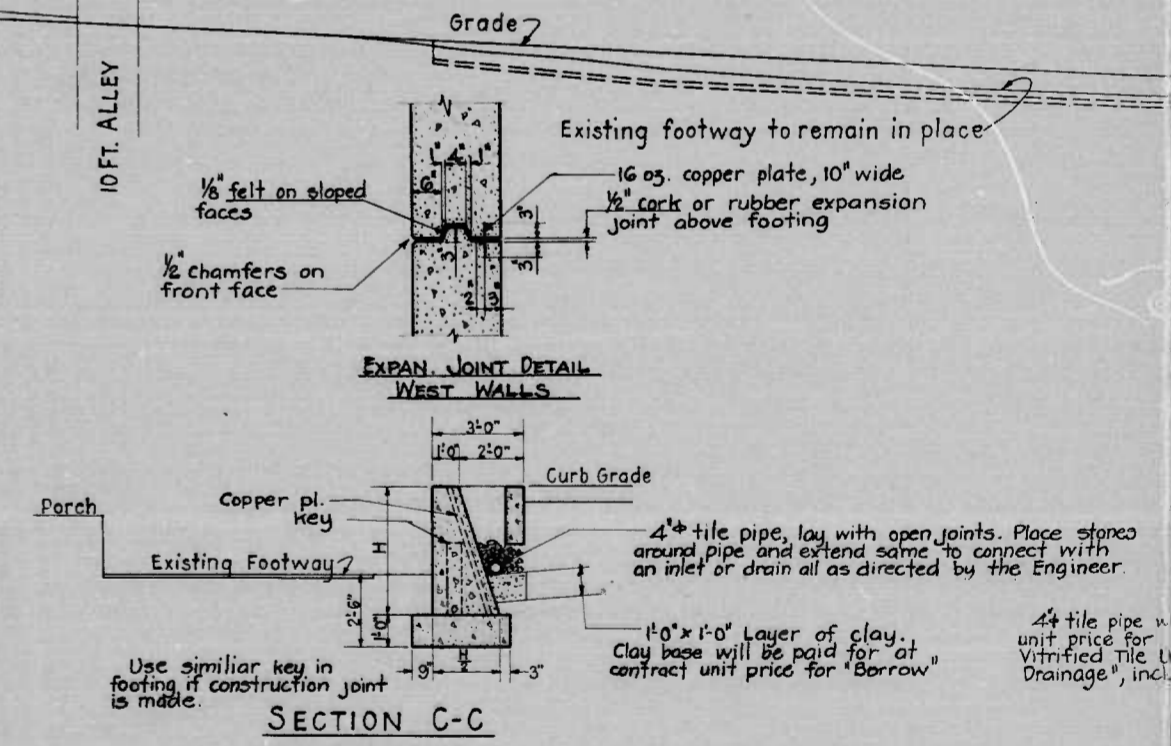
Note: Provide expansion joints, not over 30 Feet apart, in all walls. See Details. Cost of all expansion joints, felt, cork or rubber, copper pins, dowels, sleeves, keys, etc. shall be included in the contract unit price for "Class A Concrete".



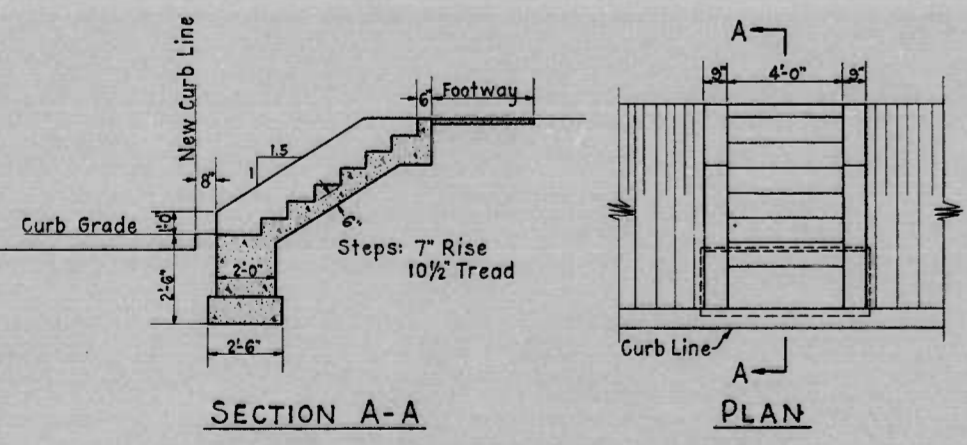
ELEVATION Scale: 1/4" = 20 FT.



SECTION B-B



SECTION C-C



TYPICAL STEPS Scale: 1/4" = 1 FT.

1173
DRAWER

NEW STAIRWAY Scale: 1/4" = 1 FT.

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
BRIDGE DIVISION
NEW CONCRETE WALL
IN CONNECTION WITH
FALLS ROAD BRIDGE
KELLY AVE. TO
SCALES: AS SHOWN

APPROVED: *[Signature]* ASSOCIATE ENGINEER
APPROVED: *[Signature]* HIGHWAYS ENGINEER

BC-161-726

INDEX OF SHEETS

SHEET NO. 1	TITLE PAGE & LAYOUT
2	TYPICAL CROSS SECTION OF IMPROVEMENT
3	PLAN & PROFILE—STA. 32+00.00 TO STA. 42+00.00
4	" " " 42+00.00 " " 54+00.00
5	" " " 54+00.00 " " 66+64.78
6	" " " 66+64.78 " " 78+00.00
7	" " " 77+00.00 " " 79+92.03
8	" " & DETAILS—SEWER
9	" " & SUMMARY
10	SUMMARY—PAVING

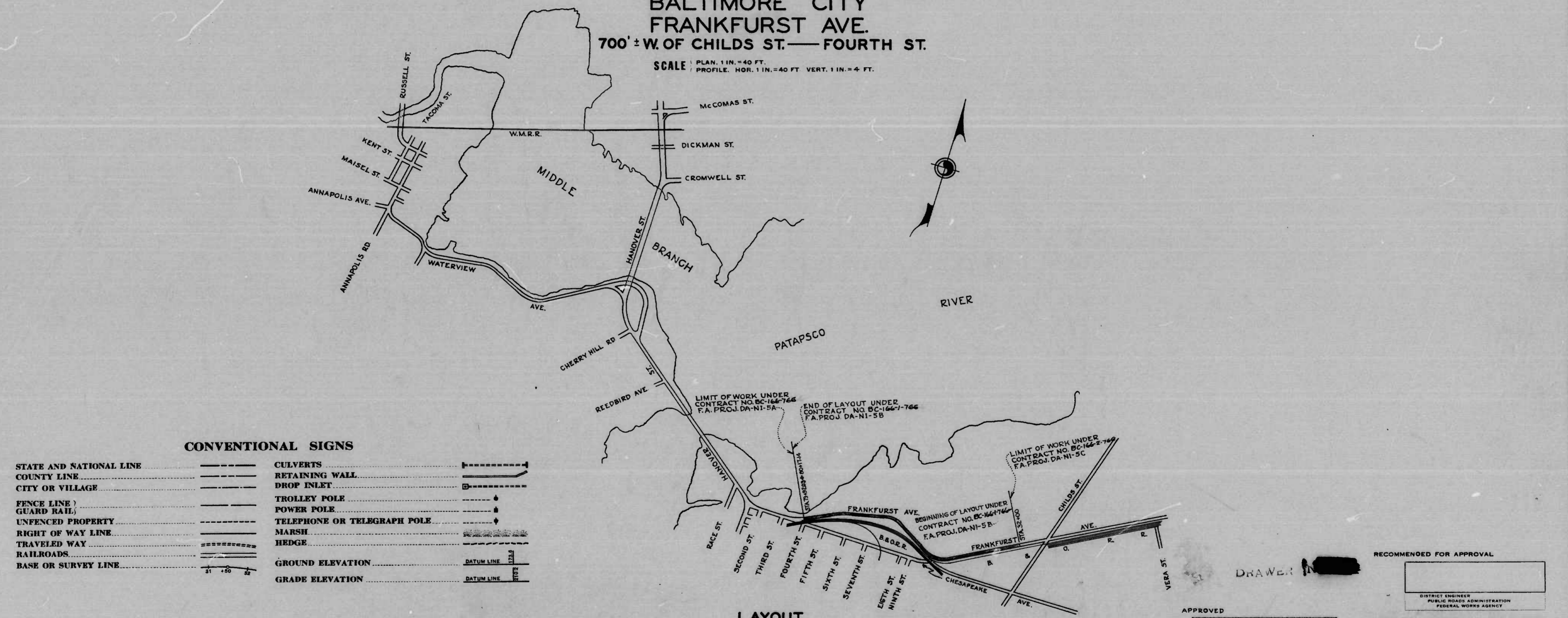
STATE OF MARYLAND
STATE ROADS COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT NO. DA-NI-5-B

BALTIMORE CITY
FRANKFURST AVE.
700' ± W. OF CHILDS ST.—FOURTH ST.

SCALE: PLAN, 1 IN. = 40 FT.
PROFILE, HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	-----	CULVERTS	-----
COUNTY LINE	-----	RETAINING WALL	-----
CITY OR VILLAGE	-----	DROP INLET	-----
FENCE LINE	-----	TROLLEY POLE	-----
GUARD RAIL	-----	POWER POLE	-----
UNFENCED PROPERTY	-----	TELEPHONE OR TELEGRAPH POLE	-----
RIGHT OF WAY LINE	-----	MARSH	-----
TRAVELED WAY	-----	HEDGE	-----
RAILROADS	-----	GROUND ELEVATION	DATUM LINE
BASE OR SURVEY LINE	-----	GRADE ELEVATION	DATUM LINE

LAYOUT
SCALE: 1"=1000'

FOR DETAILS OF CULVERTS, ETC. SEE STANDARD SHEET.
STATE SPECIFICATIONS AND STANDARD PLANS ON FILE IN BUREAU OF PUBLIC ROADS.

APPROVED *Gene Collins*
CHIEF ENGINEER, CITY OF BALTIMORE

APPROVED *Wilson T. Rector*
CHIEF ENGINEER, STATE ROADS COMMISSION 3/24/42

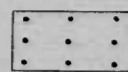


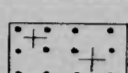

RECOMMENDED FOR APPROVAL

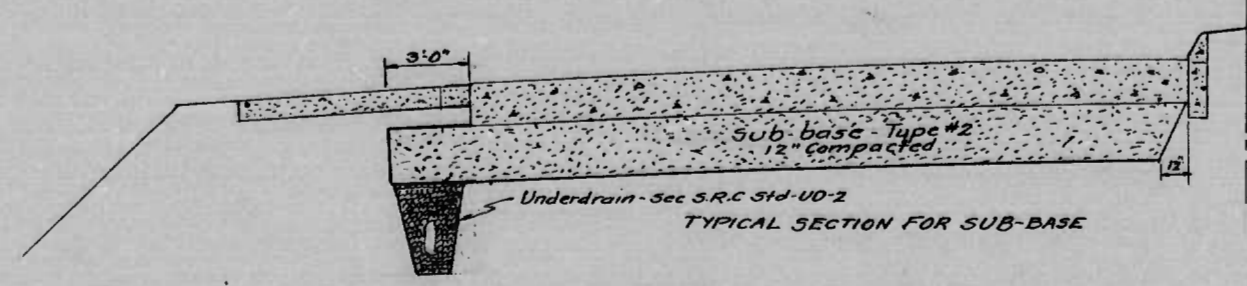
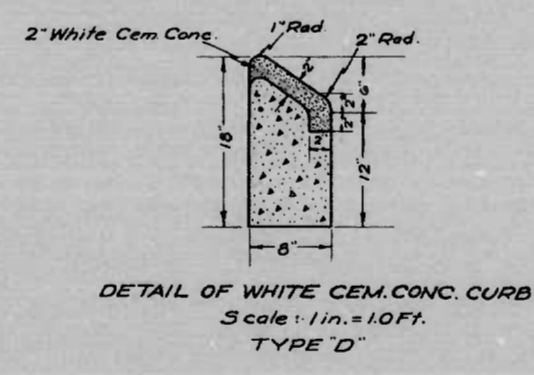
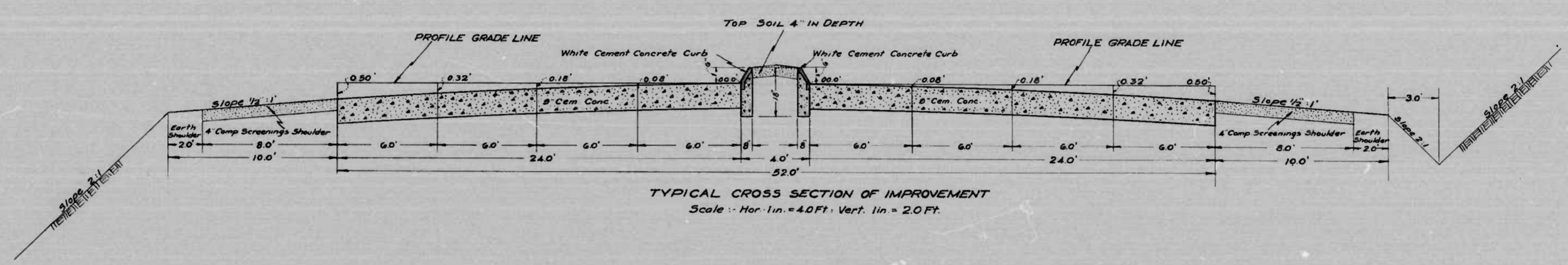
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

MICROFILMED ON APERTURE CARDS

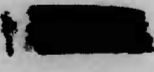
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5B	2	10

- A-2; sand with fines 
- A-3; sand zero Pl. 
- A-4; silt 
- A-2^T; clay, sand 
- A-4; silt, mucky condition 



MICROFILMED ON APERTURE CARDS

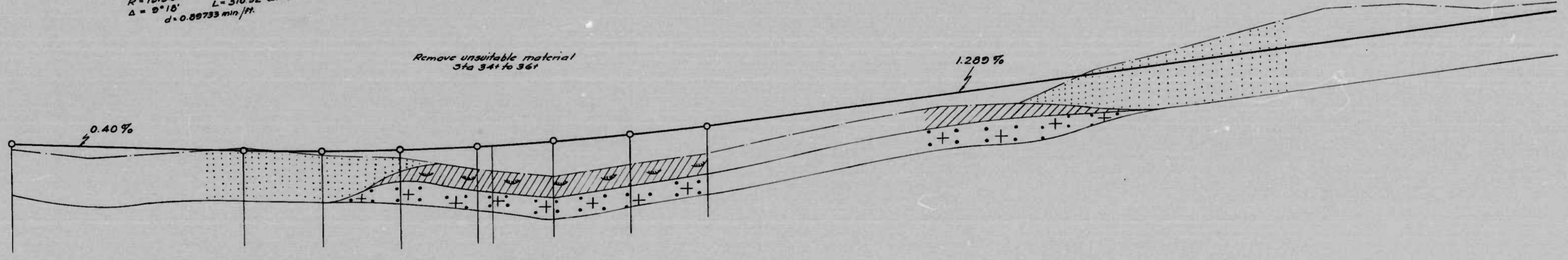
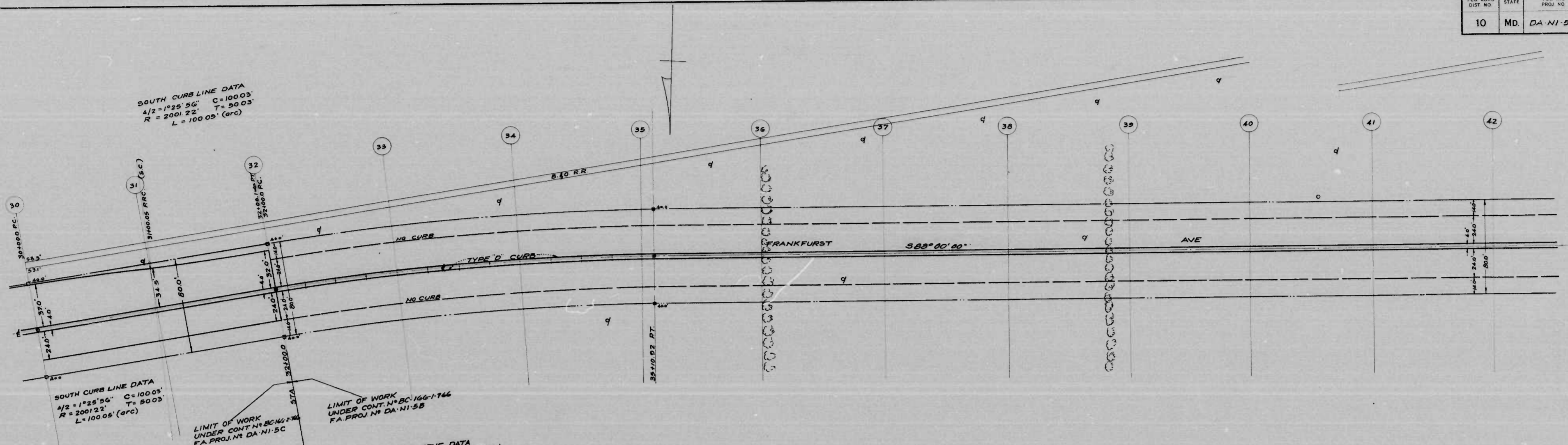
William T. Ballou & Shultz

DRAWN BY 

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT FRANKFURST AVE - 700 W CHILDS ST. - 4 TH ST
	CONT. NO. BC-166-1-766 F. A. P. NO. DA-NI-5B SHEET NO. 2 OF 10 PREL. TRAC. BY: _____ FINAL TRAC. BY: _____

1172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD	DA-NI-5B	3	10



32+500	16.21	17.70
33+000	16.58	18.80
33+500	16.97	19.70
34+000	16.23	18.60
34+500	16.15	18.70
35+000	15.24	16.85
35+500	15.92	16.90
35+500	14.79	17.15
36+000	15.53	17.50
36+500	16.19	18.00
37+000	17.29	18.64
37+500	18.35	19.29
38+000	19.19	19.93
38+500	19.29	20.50
39+000	21.47	21.22
39+500	22.67	21.87
40+000	24.01	22.51
40+500	25.40	23.16
41+000	25.67	23.80
41+500	25.35	24.45
42+000	25.67	25.09

MICROFILMED ON APERTURE CARDS

SCALE PLAN - 1 IN. = 40 FT.
 PROFILE - HOR. 1 IN. = 40 FT. - VERT. 1 IN. = 4 FT.

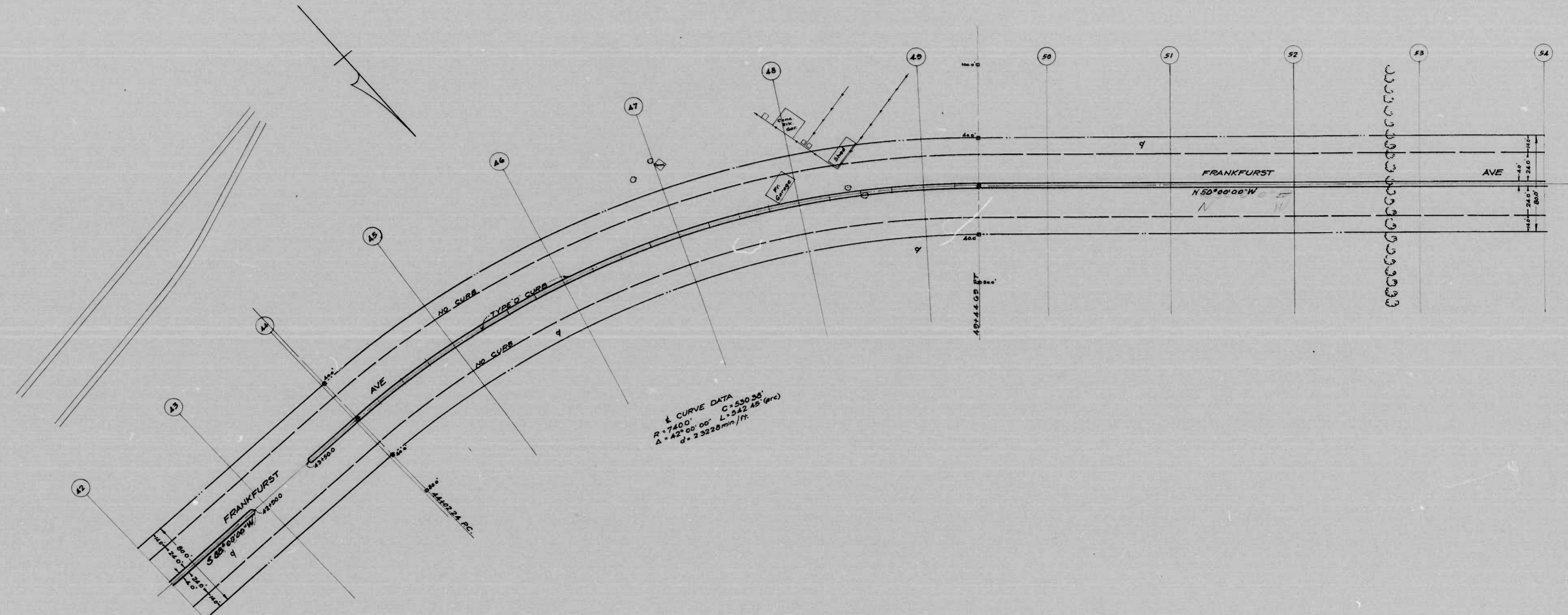
REVISIONS

STATE OF MARYLAND
 STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT
 FRANKFURST AVE - 700' W CHILDS ST. - 4TH ST
 CONT. NO. BC-166-1-766 F. A. P. NO. DA-NI-5B SHEET NO. 3 OF 10
 PREL. TRAC. BY FINAL TRAC. BY

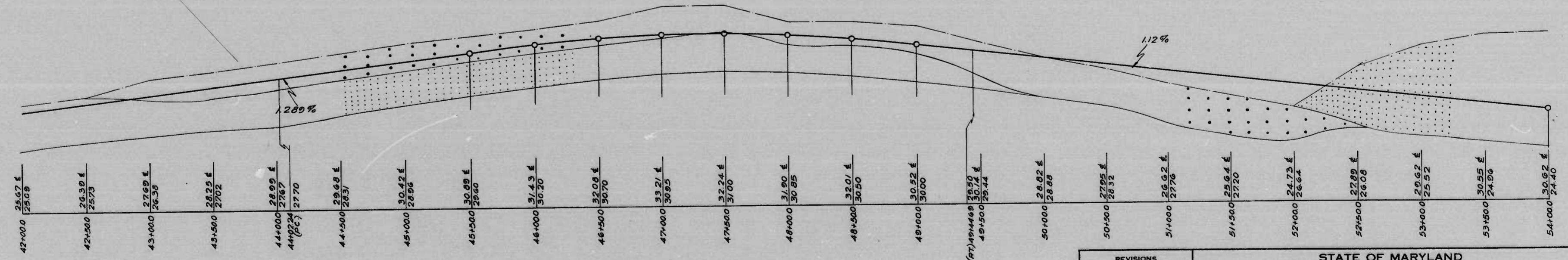
DRAWN

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5B	4	10

Note - Sta. 47+ to 48+ Left
The Surface Drain Ditches as Planned will be Omitted in this Area.



CURVE DATA
 R = 740.0' C = 530.36'
 Δ = 42° 00' 00" L = 542.48' (arc)
 g = 2.3228 min/ft



SCALE | PLAN - 1 IN. = 40 FT.
 PROFILE - HOR. 1 IN. = 40 FT. - VERT. 1 IN. = 4 FT.

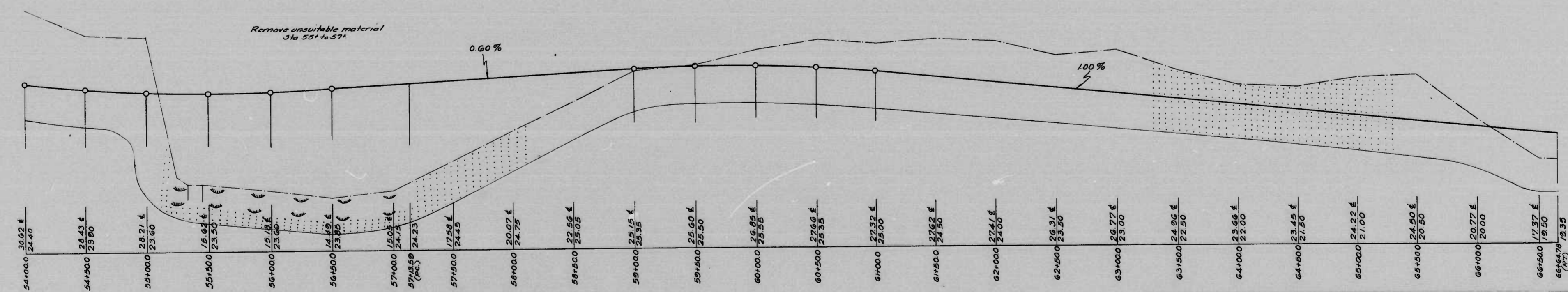
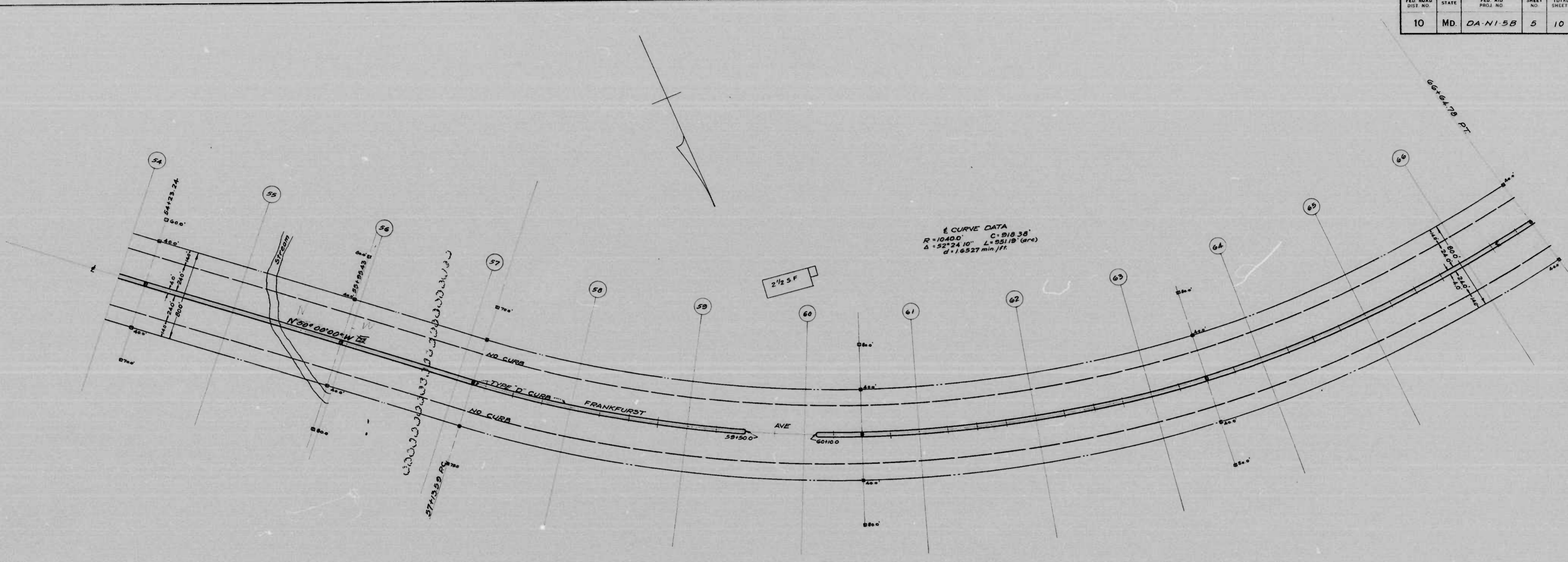
REVISIONS

STATE OF MARYLAND
 STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT
 FRANKFURST AVE. 700' W CHILDS ST. - 4TH ST
 CONT. NO. 9C-166-1766 F. A. P. NO. DA-NI-5B SHEET NO. 4 OF 10
 PREP. TRAC. BY: [REDACTED] FINAL TRAC. BY: [REDACTED]

DRAWN BY: [REDACTED] 1172

MICROFILMED ON APERTURE CARDS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-58	5	10



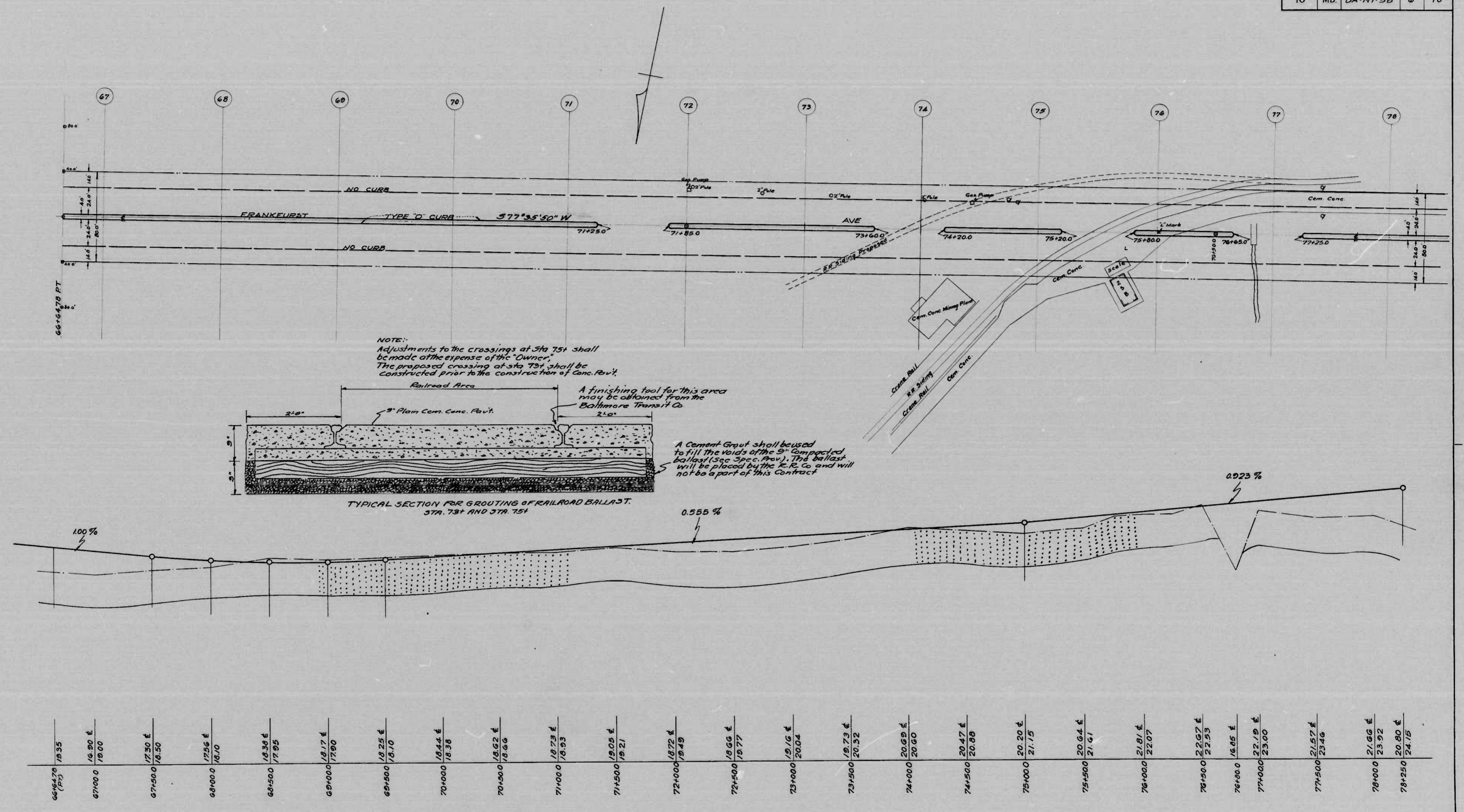
SCALE | PLAN 1 IN. = 40 FT.
 PROFILE - HOR. 1 IN. = 40 FT. - VERT. 1 IN. = 4 FT.

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT FRANKFURST AVE - 700' W CHILDS ST - 4TH ST CONT. NO. BC-166-1766 P. A. P. NO. DA-NI-58 SHEET NO. 5 OF 10 PREL. TRAC. BY: FINAL TRAC. BY:
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MICROFILMED
APERTURE CARDS

DRAWN BY: [Redacted] 1172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5B	6	10



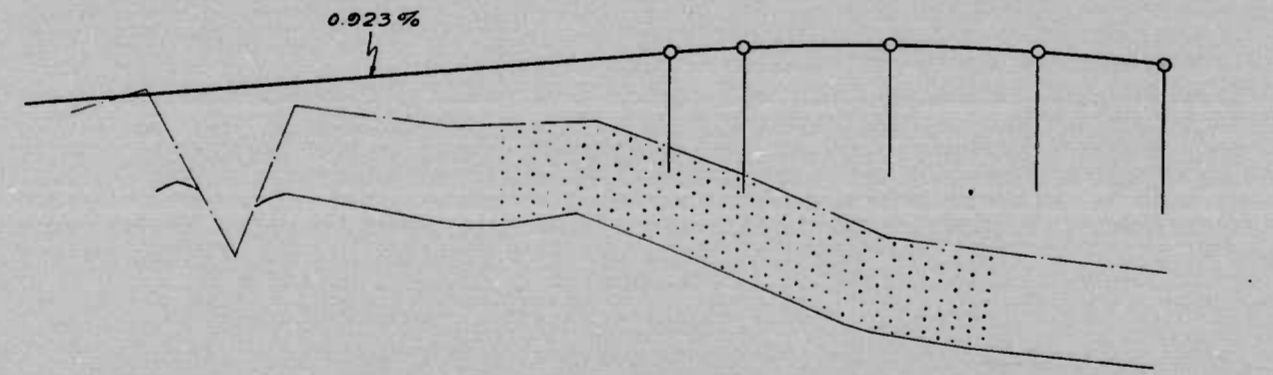
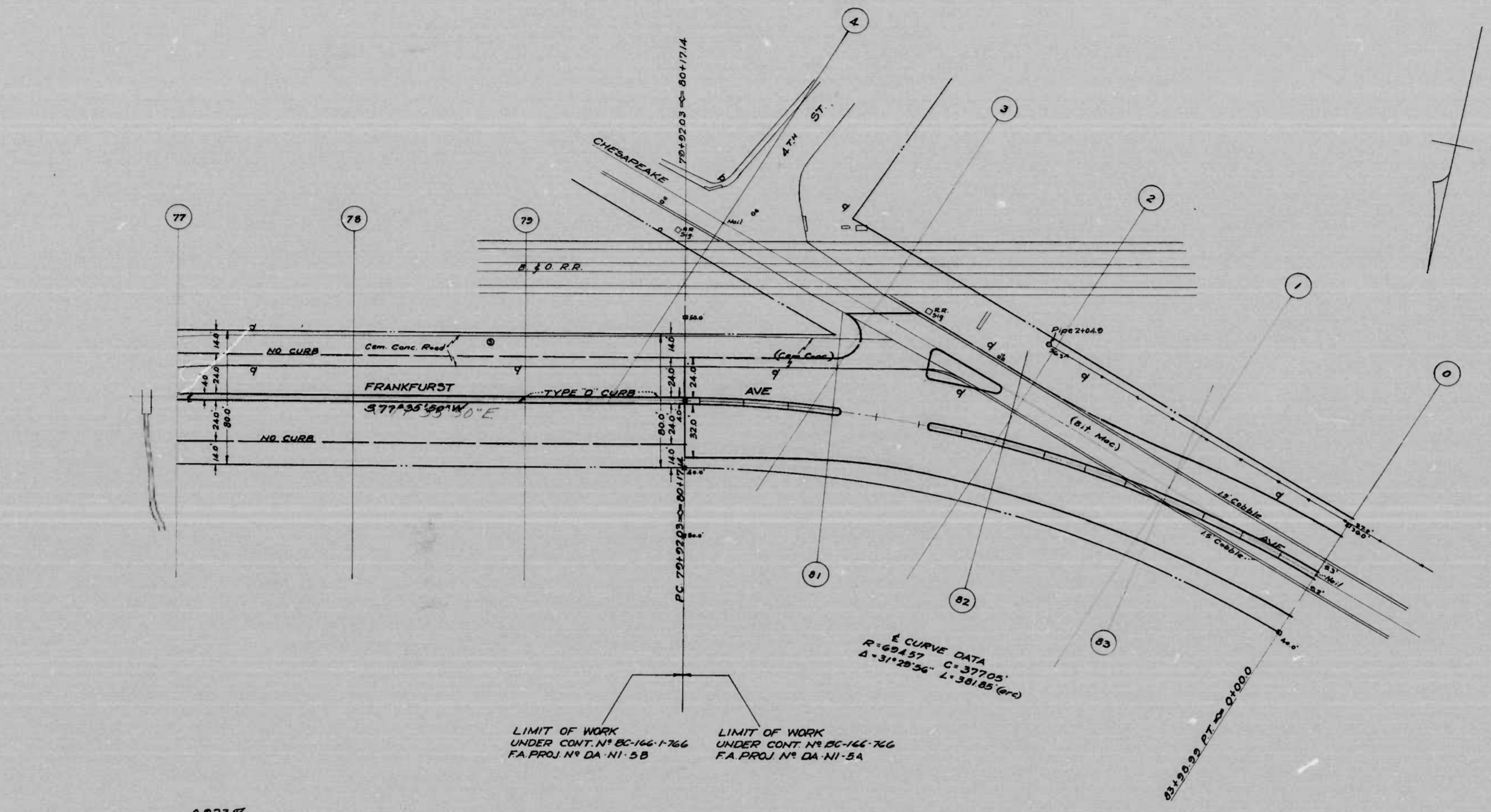
MICROFILMED ON APERTURE CARDS

SCALE | PLAN 1 IN. = 40 FT.
| PROFILE HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT FRANKFURST AVE - 700' W. CHILDS ST - 4TH ST CONT. NO. BC-166-1-766 P. A. P. NO. DA-NI-5B SHEET NO. 6 OF 10 PREL. TRAC. BY FINAL TRAC. BY
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DRAWN BY [REDACTED] 1172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5B	7	10



77+000	23.19	23.00
77+500	21.57	23.46
78+000	21.66	23.92
78+250	20.80	24.15
78+500	19.03	24.30
79+000	17.62	24.45
79+300	17.00	24.25
79+500	16.59	23.00

SCALE | PLAN - 1 IN. = 40 FT.
 | PROFILE - HOR. 1 IN. = 40 FT. - VERT. 1 IN. = 4 FT.

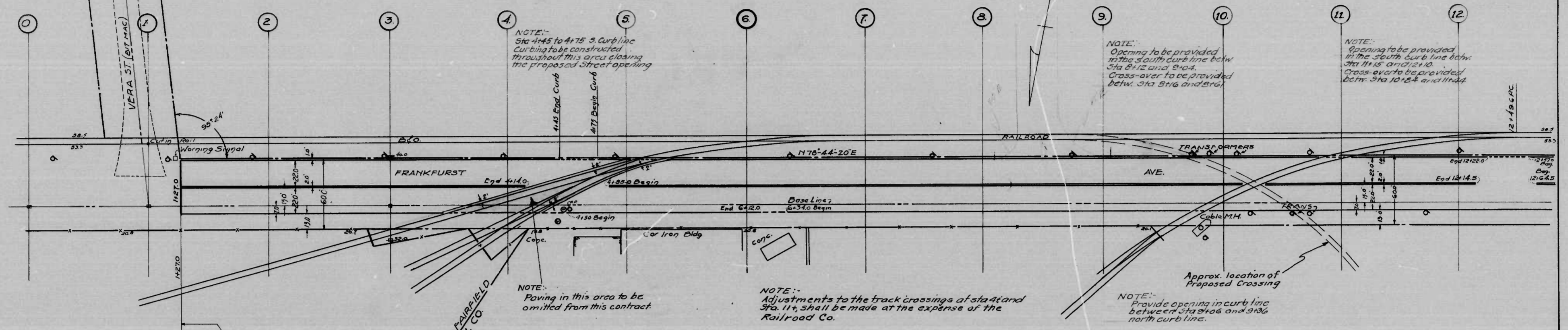
REVISIONS

STATE OF MARYLAND
 STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT
 FRANKFURST AVE - 700' W CHILDS ST. - 4TH ST.
 CONT. NO. BC-166-1-766 F. A. P. NO. DA-NI-5B SHEET NO. 7 OF 10
 PREL. TRAC. BY: FINAL TRAC. BY:

DRAWER [REDACTED] 1172

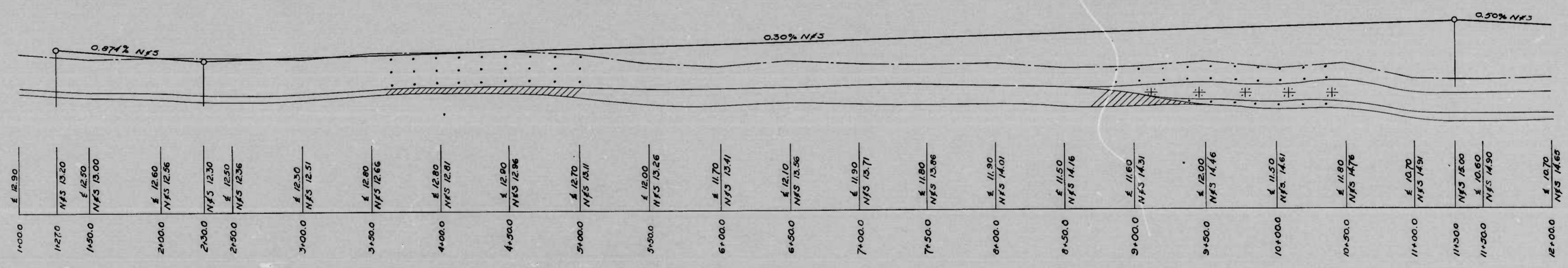
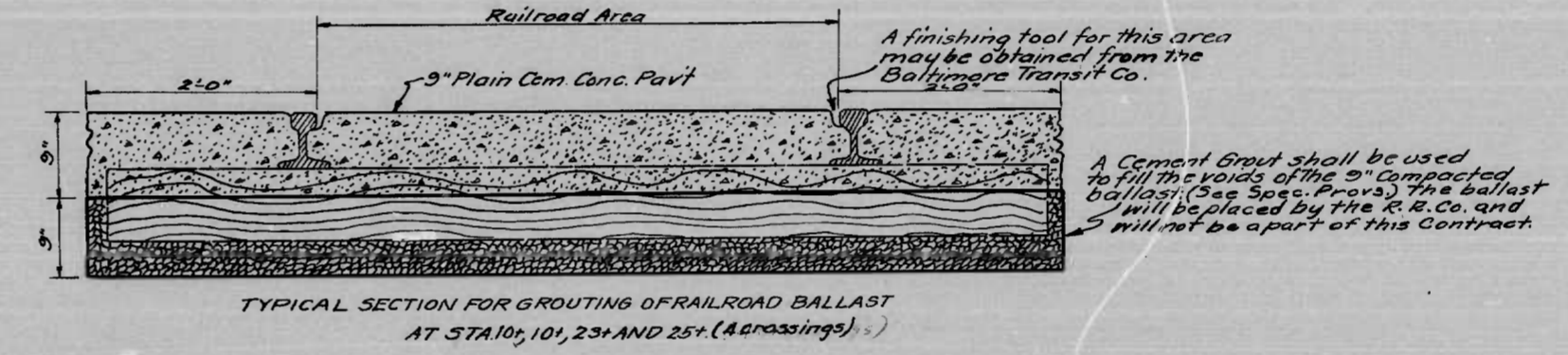
MICROFILMED ON APERTURE CARDS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5C	3	10



LIMIT OF WORK UNDER CONT. NO. BC-166-2-766 R.A. PROJECT NO. DA-NI-5C

DEPTH PAIRFIELD GULF OIL CO.



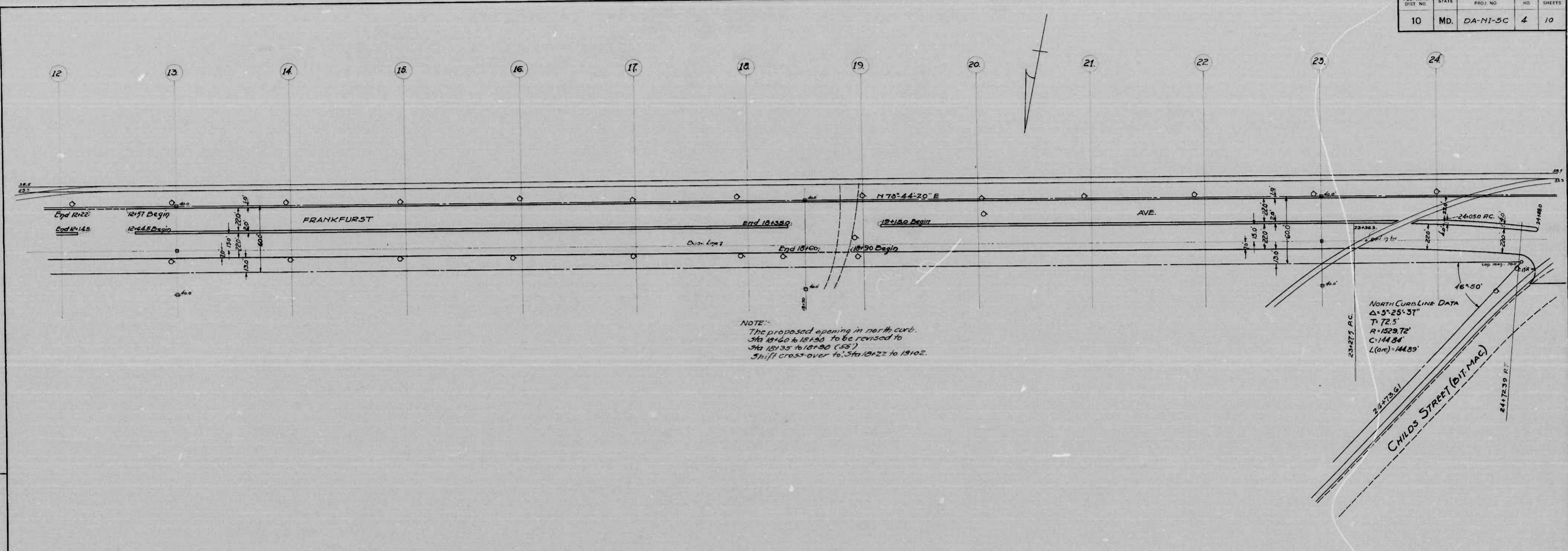
MICROFILMED ON APERTURE CARDS

SCALE PLAN 1 IN. = 40 FT. PROFILE - HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION
Revisions in curb opening and cross-overs 8/18/52	PLANS AND SURVEYS DEPARTMENT
	FRANKFURST AVE. - VERA ST. - 700' W. CHILDS ST.
	CONT. NO. BC-166-2-766 F. A. P. NO. DA-NI-5C SHEET NO. 3 OF 10
	PREL. TRAC. BY: FINAL TRAC. BY:

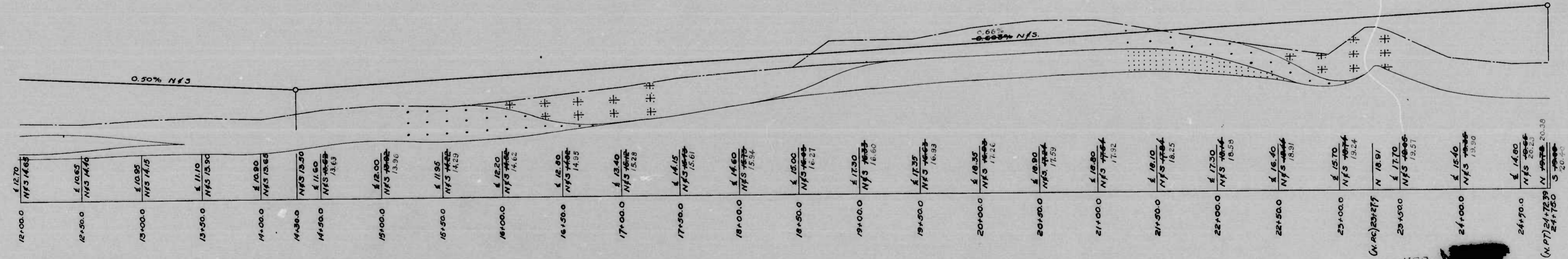
1172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5C	4	10



NOTE:
 The proposed opening in north curb.
 Sta 18+00 to 18+30 to be revised to
 Sta 18+35 to 18+90 (55')
 Shift cross-over to Sta 18+22 to 18+02.

NORTH CURBLINE DATA
 Δ = 5° 25' 37"
 T = 72.5'
 R = 1329.72'
 C = 144.84'
 L (one) = 144.83'



DRAWER [REDACTED]

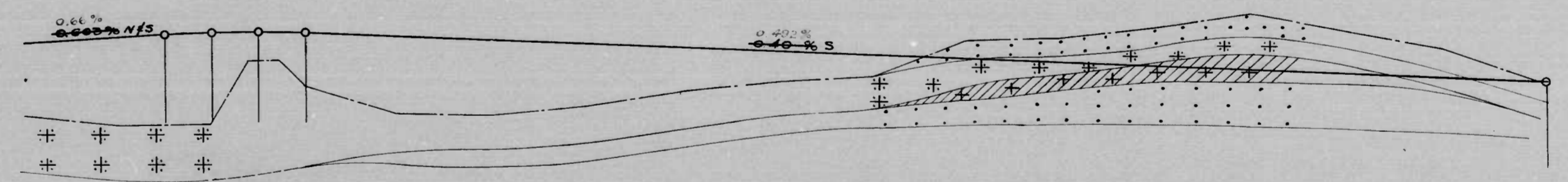
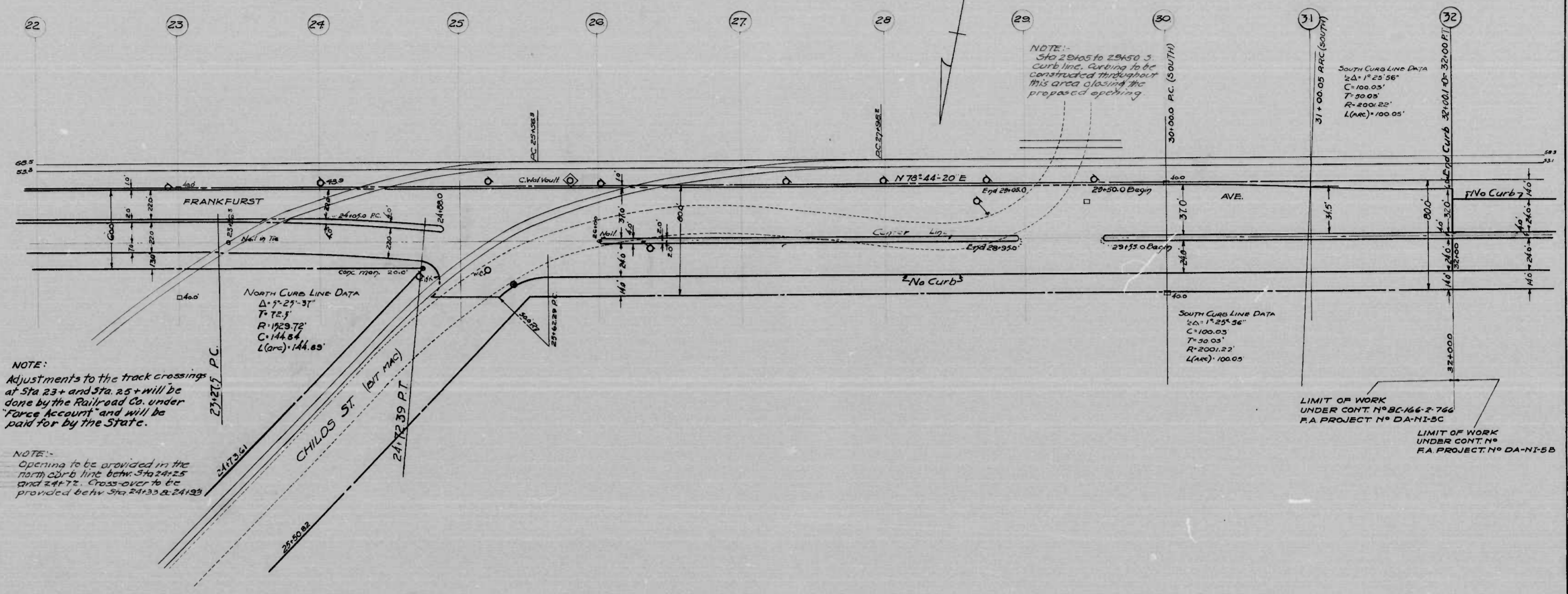
MICROFILMED ON APERTURE CARDS

SCALE | PLAN - 1 IN. = 40 FT.
 | PROFILE - HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

REVISIONS Revisions in curb openings and cross-overs 01/14/82	STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT 1172
	FRANKFURST AVE. - VERA ST. - 700' ± W. CHILD'S ST. CONT. NO. BC-166-2-766 F. A. P. NO. DA-NI-5C SHEET NO. 4 OF 10
	PREL. TRAC. BY: FINAL TRAC. BY:

1172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD	DA-NI-5C	5	10



SCALE PLAN 1 IN. = 40 FT.
 PROFILE HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

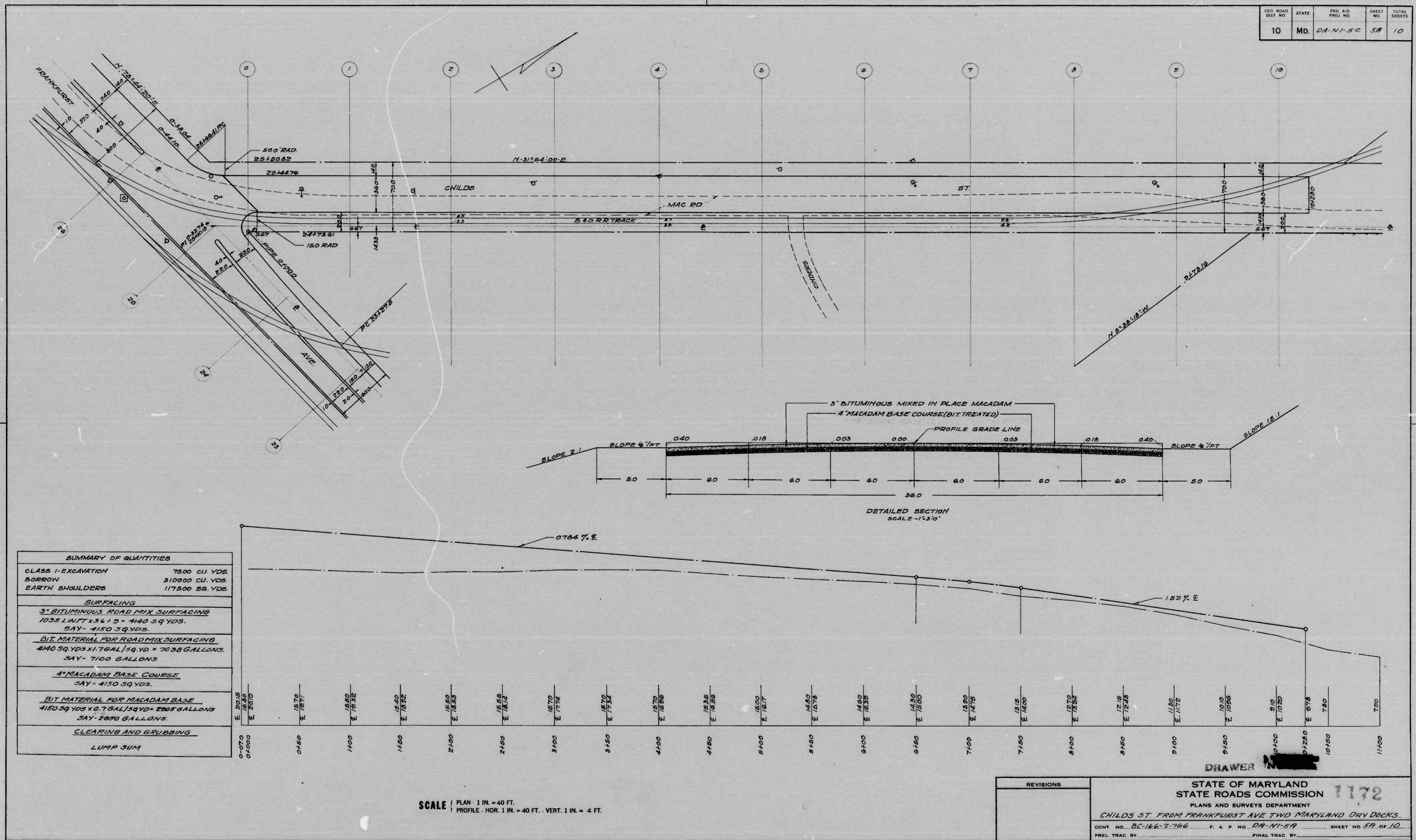
REVISIONS
 Revision in curb openings
 4/28/42

STATE OF MARYLAND
 STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT

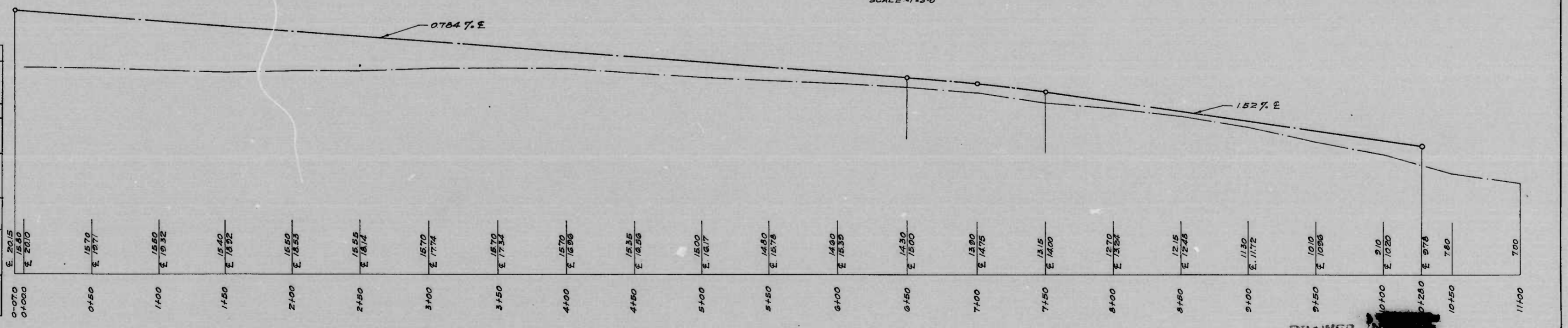
FRANKFURST AVE - VERA ST - 700' SW CHILDS ST.
 CONT. NO. BC 166-2-766 F.A.P. NO. DA-NI-5C SHEET NO. 5 OF 10
 PREL. TRAC. BY: FINAL TRAC. BY:

MICROFILMED APERTURE CARDS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-5C	5A	10



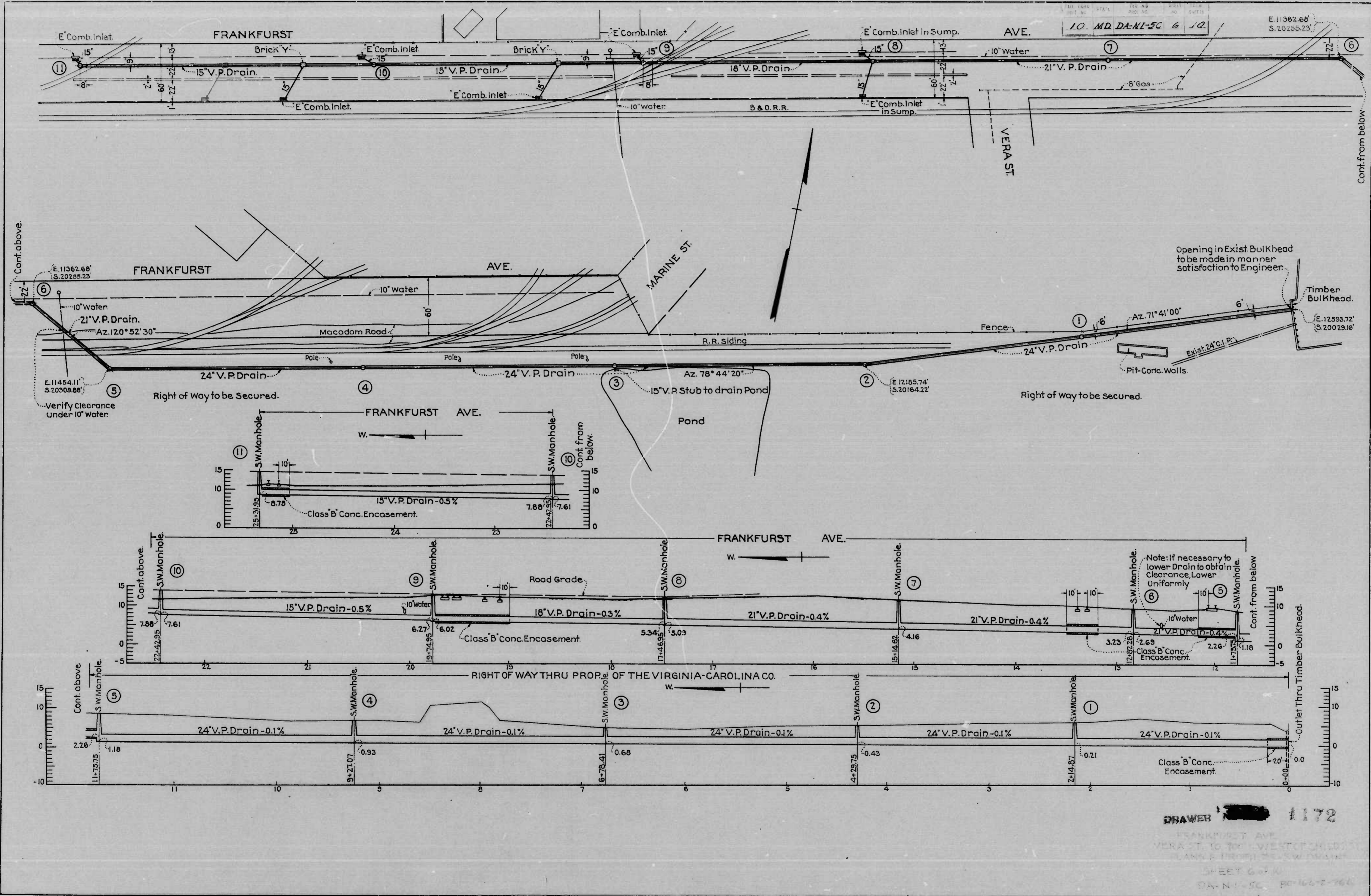
SUMMARY OF QUANTITIES	
CLASS I-EXCAVATION	7500 CU. YDS.
BORROW	310000 CU. YDS.
EARTH SHOULDERS	117500 SQ. YDS.
SURFACING	
3" BITUMINOUS ROAD MIX SURFACING	1035 L IN/T x 3613 = 440 SQ. YDS.
SAY -	4150 SQ. YDS.
BIT. MATERIAL FOR ROAD MIX SURFACING	440 SQ. YDS x 1.7 GAL/SQ. YD. = 7038 GALLONS.
SAY -	7100 GALLONS
4" MACADAM BASE COURSE	SAY - 4150 SQ. YDS.
BIT MATERIAL FOR MACADAM BASE	4150 SQ. YDS x 0.7 GAL/SQ. YD. = 2905 GALLONS.
SAY -	2900 GALLONS.
CLEARING AND GRUBBING	
LUMP SUM	



SCALE | PLAN 1 IN. = 40 FT.
 | PROFILE - HOR. 1 IN. = 40 FT. - VERT. 1 IN. = 4 FT.

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT CHILD'S ST. FROM FRANKFURST AVE TWO MARYLAND DRY DOCKS. CONT. NO. BC-166-2-766 F. A. P. NO. DA-NI-5A SHEET NO. 5A OF 10 PREL. TRAC. BY: _____ FINAL TRAC. BY: _____

MICROFILMED ON APERTURE CARDS



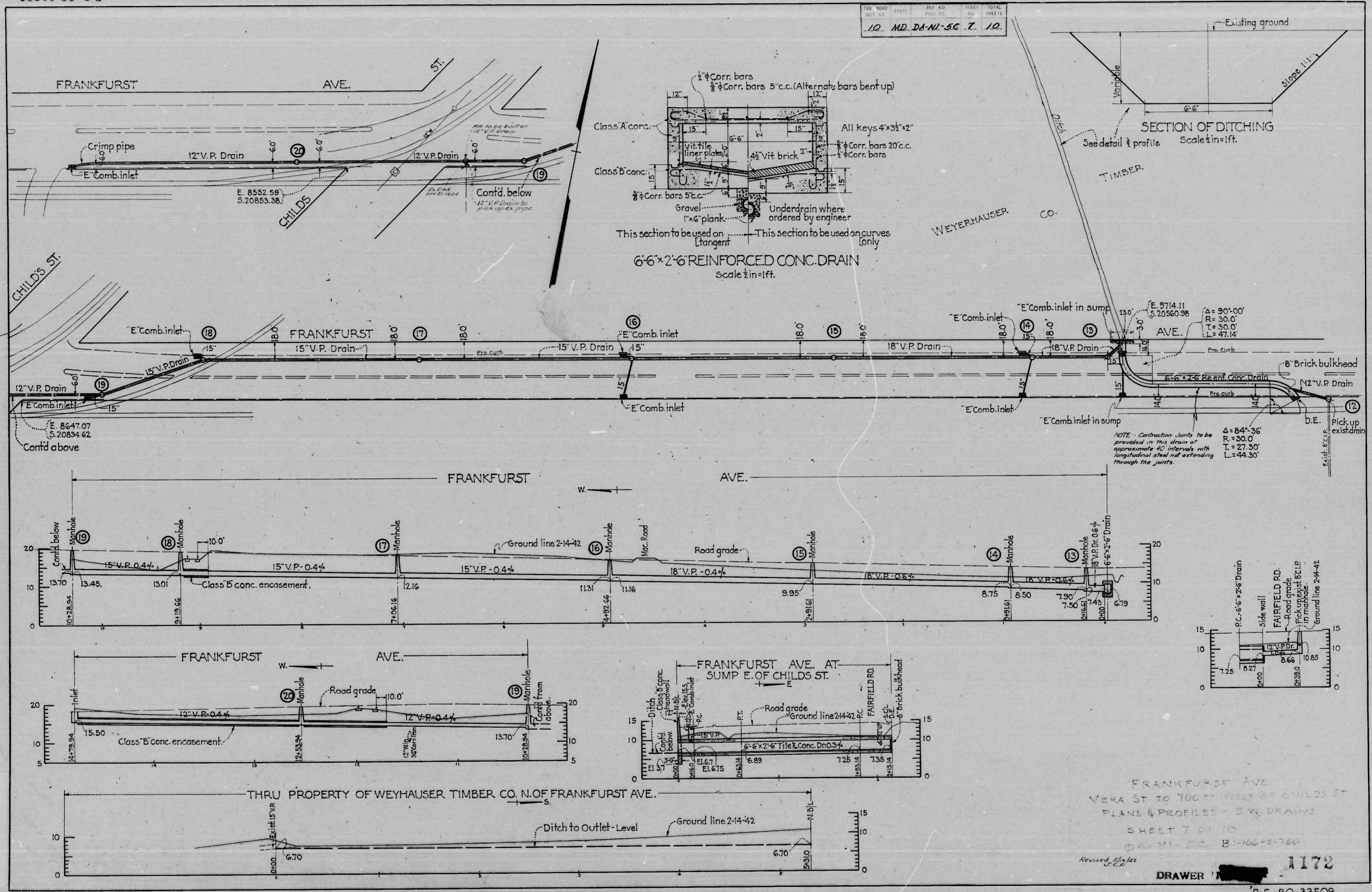
DRAWER 1172

FRANKFURST AVE
VERA ST TO THE WEST
LANE & BRUSH TO THE EAST
SHEET 6 OF 10
DA-NI-50. 6. 10-10-60

MICROFILMED ON APERTURE CARDS

B.S.-80-33508

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-50	7	10

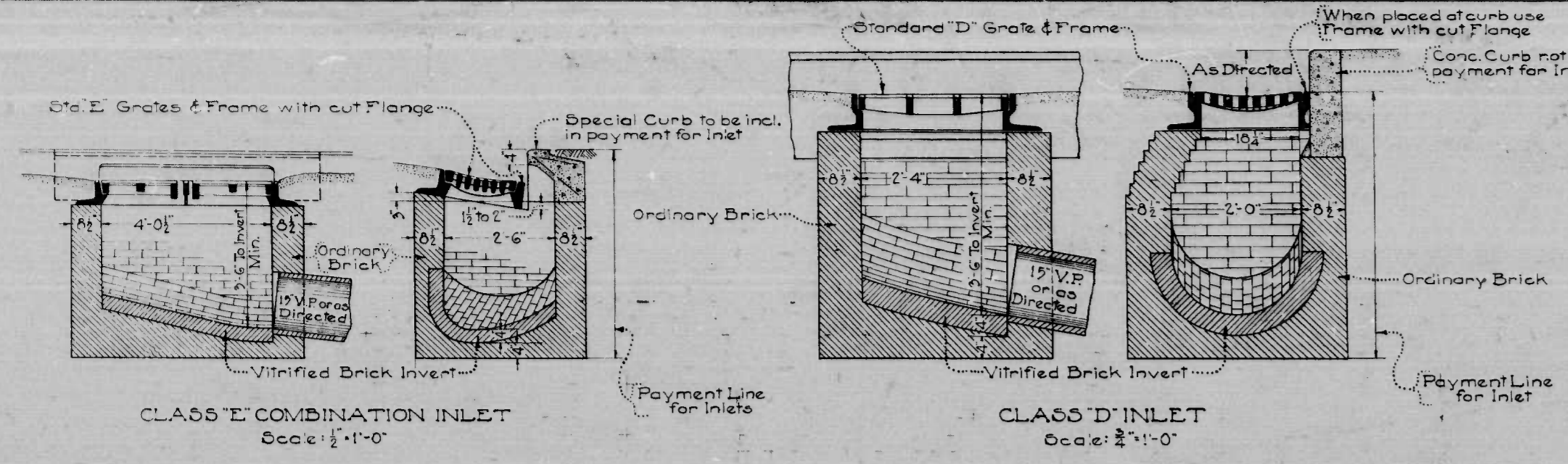


FRANKFURST AVE
 VERA ST TO 700 FT. WEST OF CHILDS ST
 PLANS & PROFILES - S.W. DRAINS
 SHEET 7 OF 10
 DA-NI-50 B-166-2-760
 Revised 5/15/42

DRAWER [REDACTED] 1172

B.S.-80-33508

MICROFILMED ON APERTURE CARDS

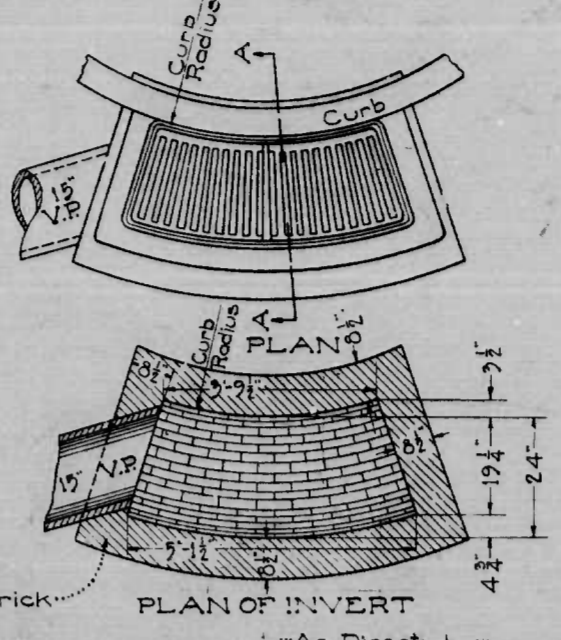


CLASS 'E' COMBINATION INLET
Scale: 1/2" = 1'-0"

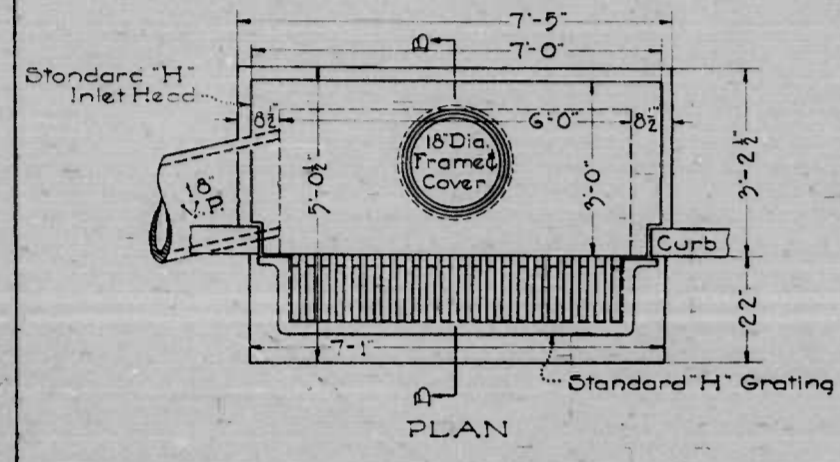
CLASS 'D' INLET
Scale: 1/2" = 1'-0"

Note: Inverts to slope of least 2" per foot toward outlet

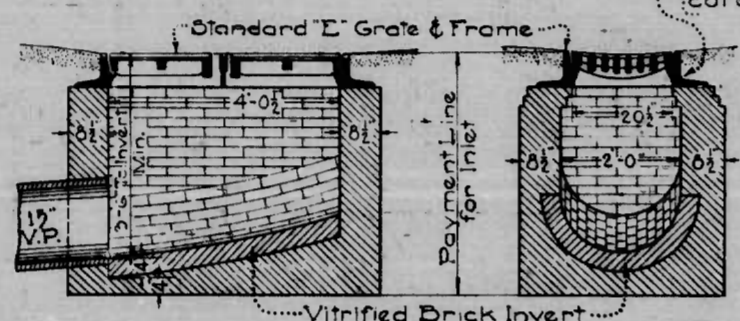
Note: Direction of Inlet Connections will vary to suit conditions



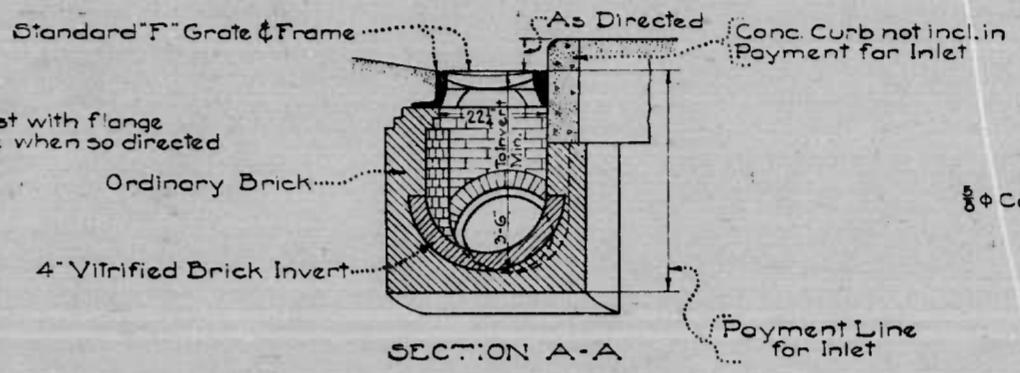
PLAN OF INVERT



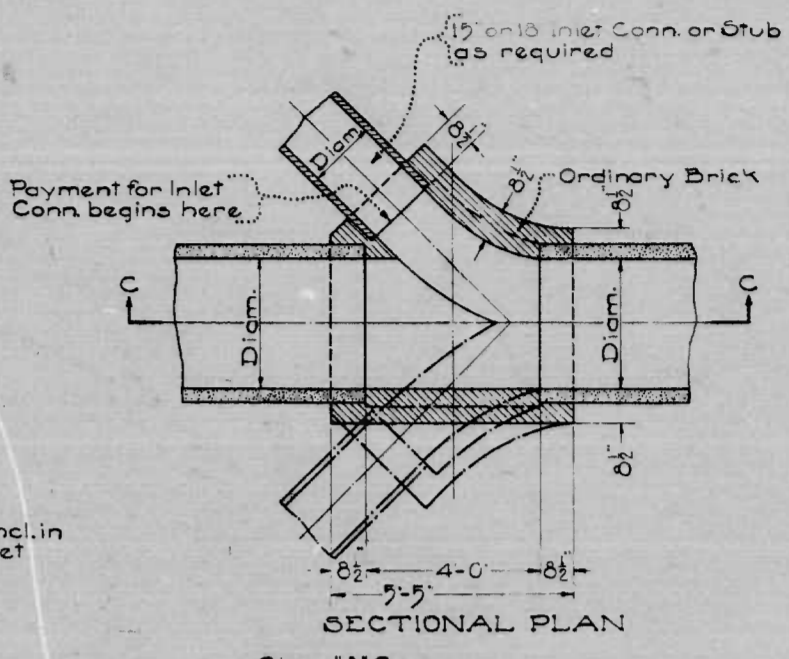
PLAN



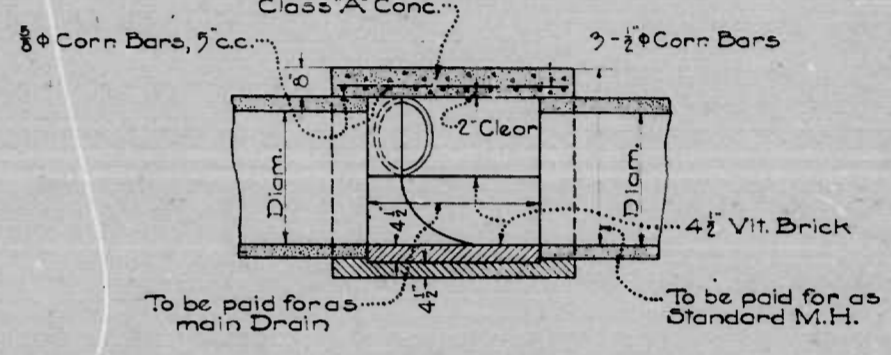
CLASS 'E' INLET
Scale: 1/2" = 1'-0"



CLASS 'F' INLET
Scale: 1/2" = 1'-0"

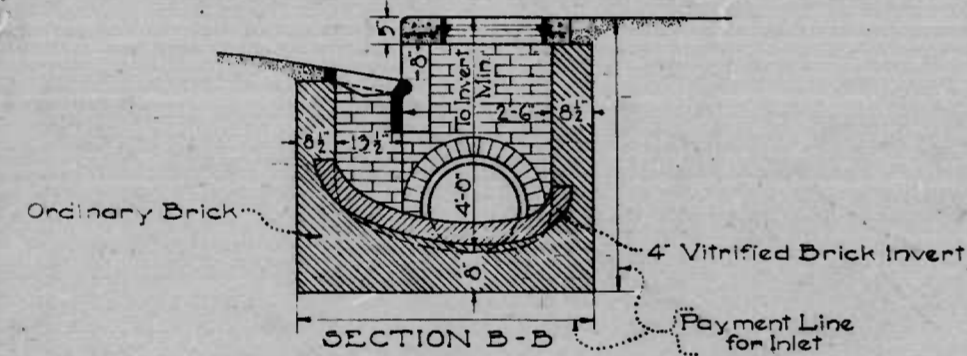


SECTIONAL PLAN



SECTION C-C

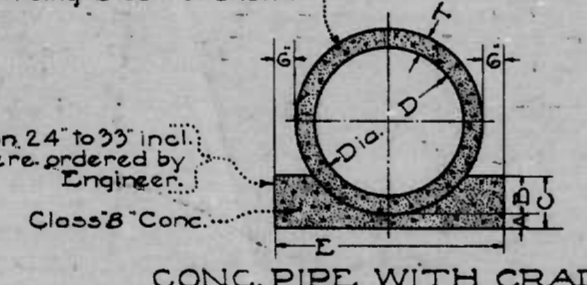
DOUBLE OR SINGLE BRICK 'Y' FOR INLET CONN'S.
Scale: 1/8" = 1'-0"



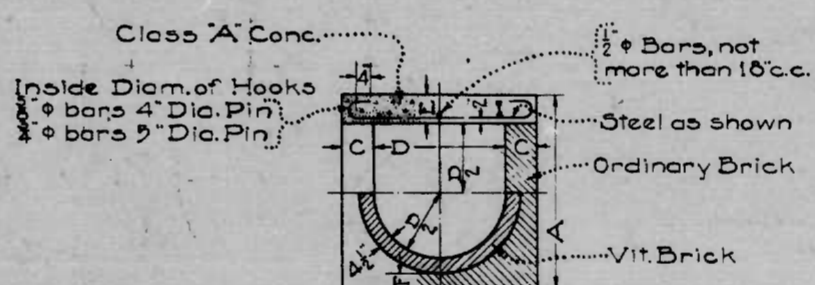
CLASS 'H' COMBINATION INLET
Scale: 1/2" = 1'-0"

Reinforcing Steel not shown

Cradle on 24" to 30" incl. only where ordered by Engineer



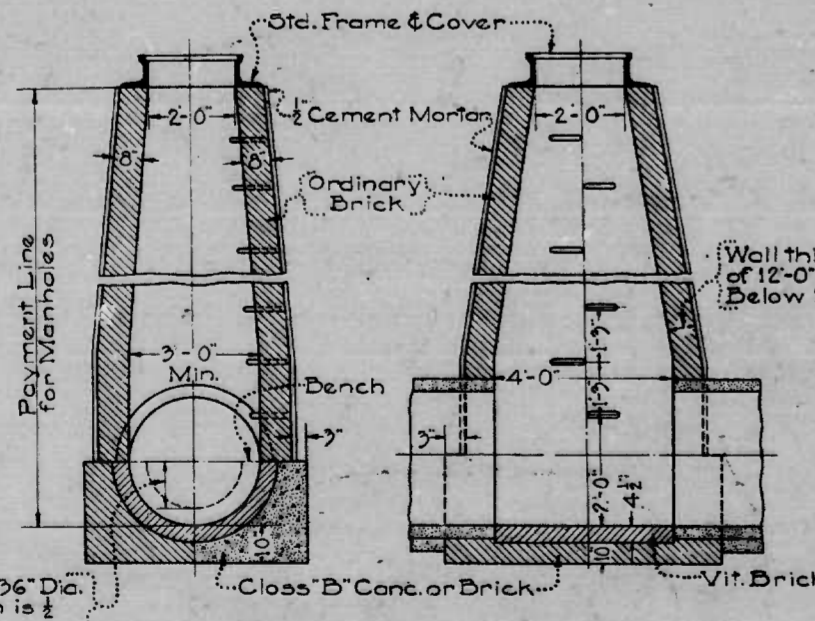
CONC. PIPE WITH CRADLE



ST'D BRICK CURVE

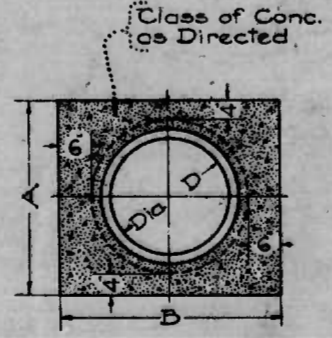
DIMENSIONS						
D	A	B	C	Feet	T	
inches	inches	inches	inches	inches	inches	
24	3	6	9	3-6	3	
27	3	7	10	3-10	3 1/2	
30	4	7 1/2	11 1/2	4-1	3 1/2	
33	4	8	12	4-7	4	
36	4	9	13	4-6	4	
42	4	10 1/2	14 1/2	5-3	4 1/2	
48	4	12	16	5-10	5	
54	4	13 1/2	17 1/2	6-3	5 1/2	

DIMENSIONS						
D	A	B	C	E	F	Steel
24	3-3/4	3-6	9"	8"	4 1/2"	3/8" Conn Bars 10'cc.
27	3-8	3-9	9"	8"	4 1/2"	3/8" Conn Bars 8'cc.
30	3-11	4-0	9"	8"	4 1/2"	3/8" Conn Bars 7'cc.
33	4-2	4-3	9"	8"	4 1/2"	3/8" Conn Bars 6'cc.
36	4-3	4-6	9"	8"	4 1/2"	3/8" Conn Bars 5'cc.
42	5-3	5-8	13"	10"	6 1/2"	3/8" Conn Bars 6'cc.
48	5-9	6-2	13"	10"	6 1/2"	3/8" Conn Bars 5'cc.
54	6-3	6-8	13"	10"	6 1/2"	3/8" Conn Bars 8'cc.



STANDARD S.W. MANHOLE
Scale: 3/8" = 1'-0"

Wall thickness to a depth of 12'-0" to be 5" thick Below 12'-0" to be 1 1/2" thick



VIT. PIPE ENCASEMENT

DIMENSIONS		
D	A	B
8	1'-6"	2'-0"
10	1'-10"	2'-2 1/2"
12	2'-1"	2'-3"
15	2'-3"	2'-9"
18	2'-9"	3'-1"
21	3'-1"	3'-3"
24	3'-5"	3'-9"

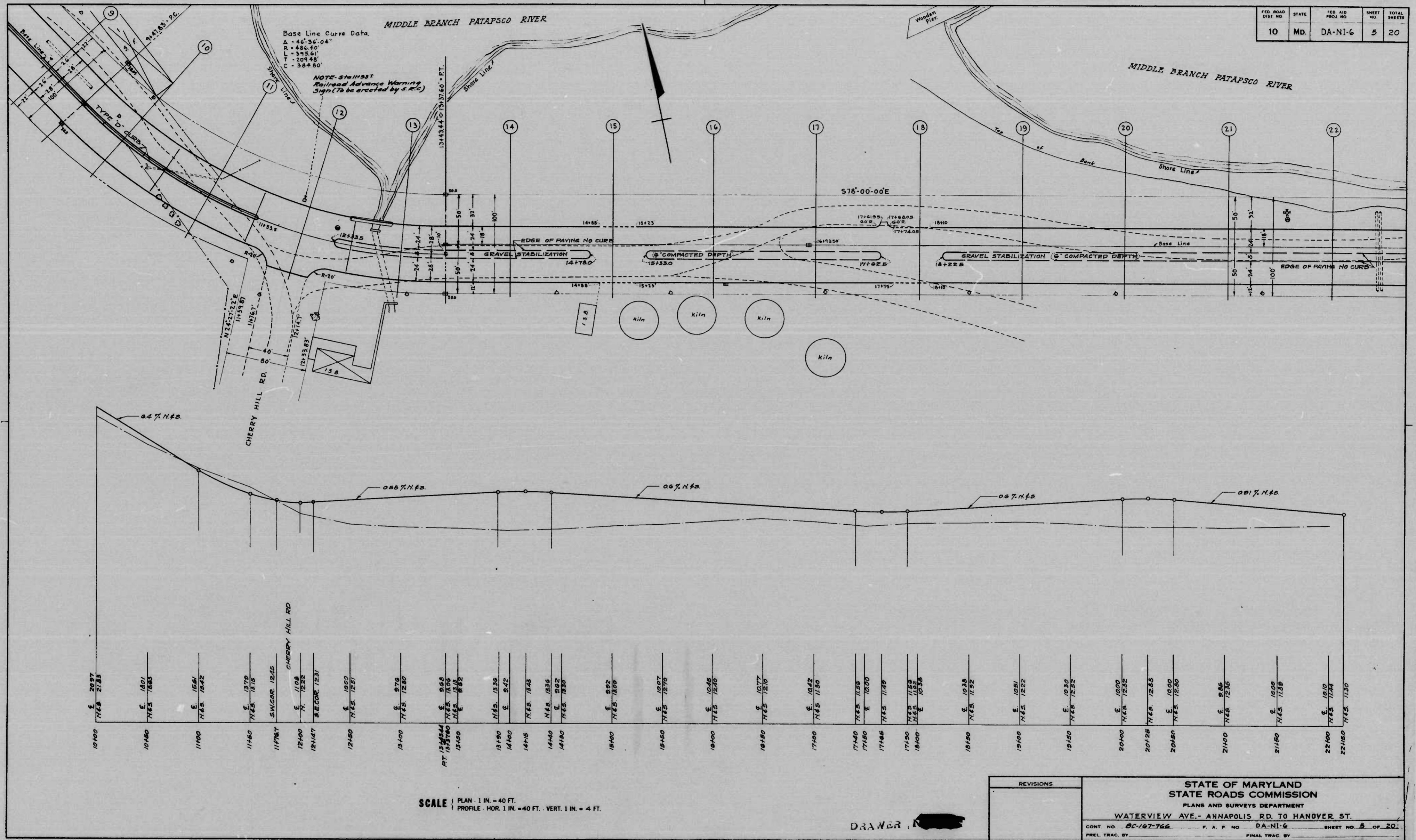
FRANKFURT AVE
Veris St. to 730' west of Childs St
Standard Details - S.W. Drains
Sheet No. 8 of 10
DA-NI-56 B-1062-760
DRAWN

1172

MICROFILMED ON APERTURE CARDS

DRAWN BY
TRACED BY
CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-6	5	20



MICROFILMED ON APERTURE CARDS

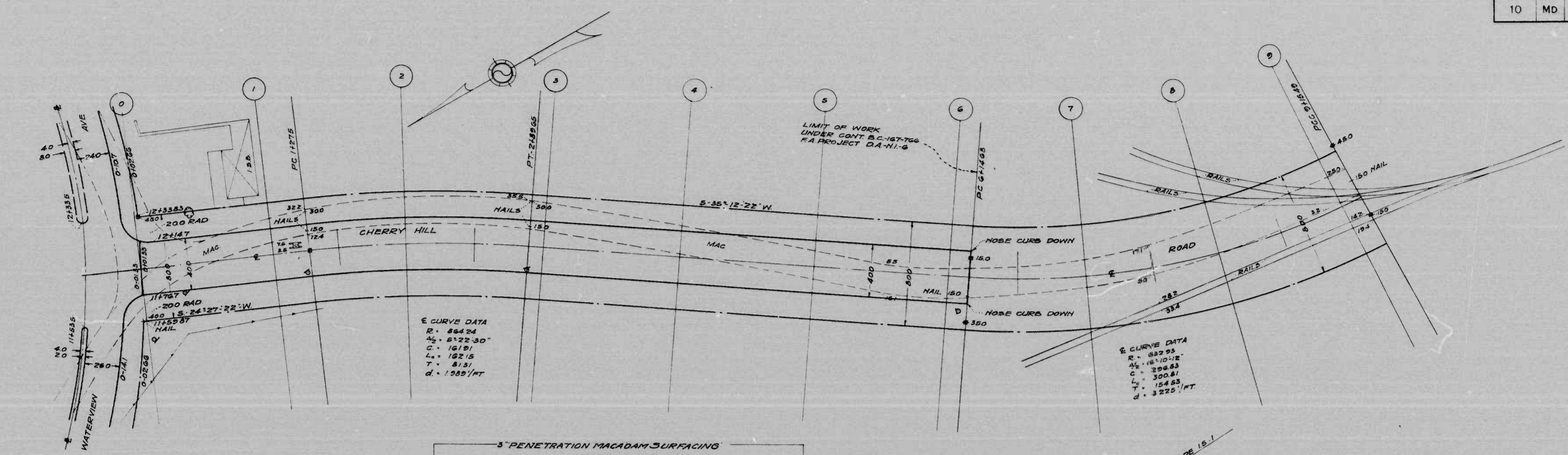
SCALE: PLAN: 1 IN. = 40 FT. PROFILE: HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

DRAWN BY [Redacted]

REVISIONS	<p align="center">STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT WATERVIEW AVE. - ANNAPOLIS RD. TO HANDOVER ST.</p>

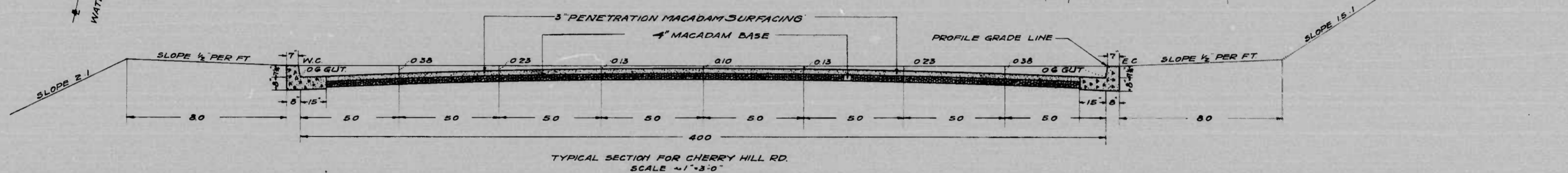
CONT. NO. 8C-167-766 F. A. P. NO. DA-NI-6 SHEET NO. 5 OF 20
 PREL. TRAC. BY: FINAL TRAC. BY:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD	DA-NI-G	5-A	20

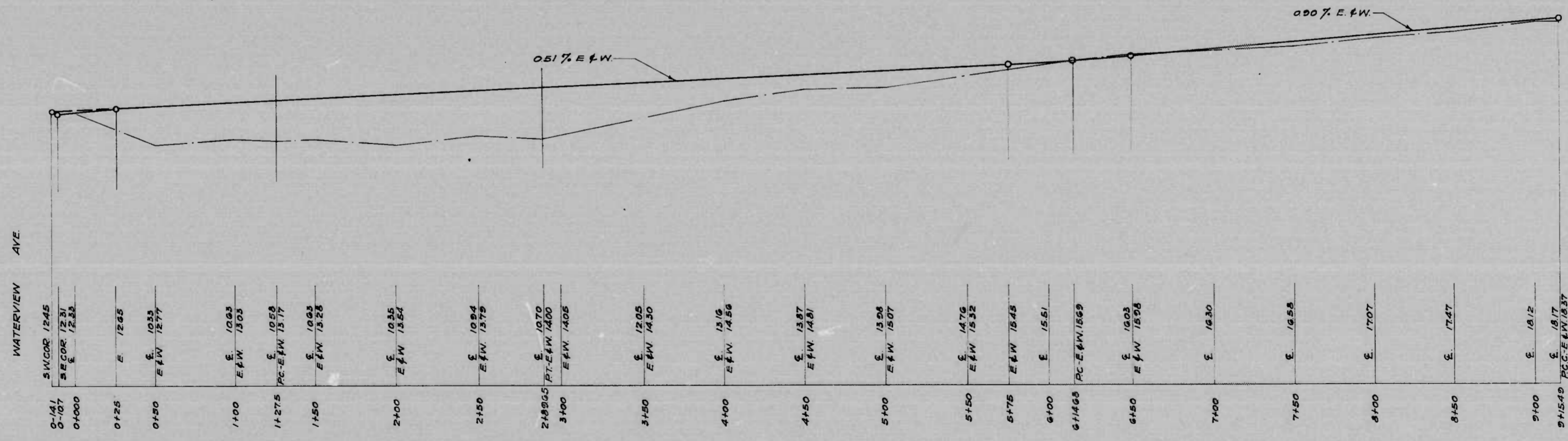
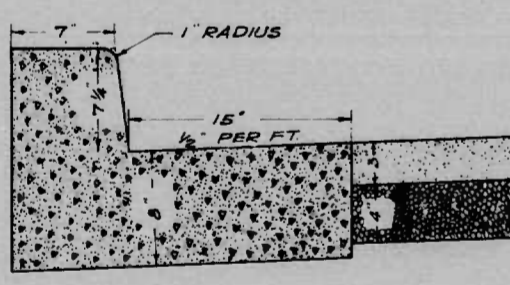


E CURVE DATA
 R = 264.34
 Δ = 6°22'30"
 C = 161.91
 L = 122.15
 T = 81.51
 d = 1.285'/FT

E CURVE DATA
 R = 322.95
 Δ = 18°10'12"
 C = 298.43
 L = 300.81
 T = 154.83
 d = 3.225'/FT



TYPICAL SECTION FOR CHERRY HILL RD.
 SCALE = 1" = 4 FT



0+00	0+25	0+50	1+00	1+275	1+50	2+00	2+150	2+695	3+00	3+50	4+00	4+50	5+00	5+50	6+00	6+143	6+50	7+00	7+50	8+00	8+50	9+00	9+540
PC 1245	E 1245	E 1035	E 1035	E 1058	E 1058	E 1035	E 1024	E 1070	PT-EN 1400	E 1205	E 1315	E 1287	E 1505	E 1475	E 1551	PC-EN 1569	E 1523	E 1630	E 1655	E 1707	E 1747	E 1812	PC-EN 1837
0+00	E 1245	E 1035	E 1035	E 1058	E 1058	E 1035	E 1024	E 1070	PT-EN 1400	E 1205	E 1315	E 1287	E 1505	E 1475	E 1551	PC-EN 1569	E 1523	E 1630	E 1655	E 1707	E 1747	E 1812	PC-EN 1837

SCALE: PLAN 1 IN = 40 FT.
 PROFILE: HOR. 1 IN = 40 FT. VERT. 1 IN = 4 FT.

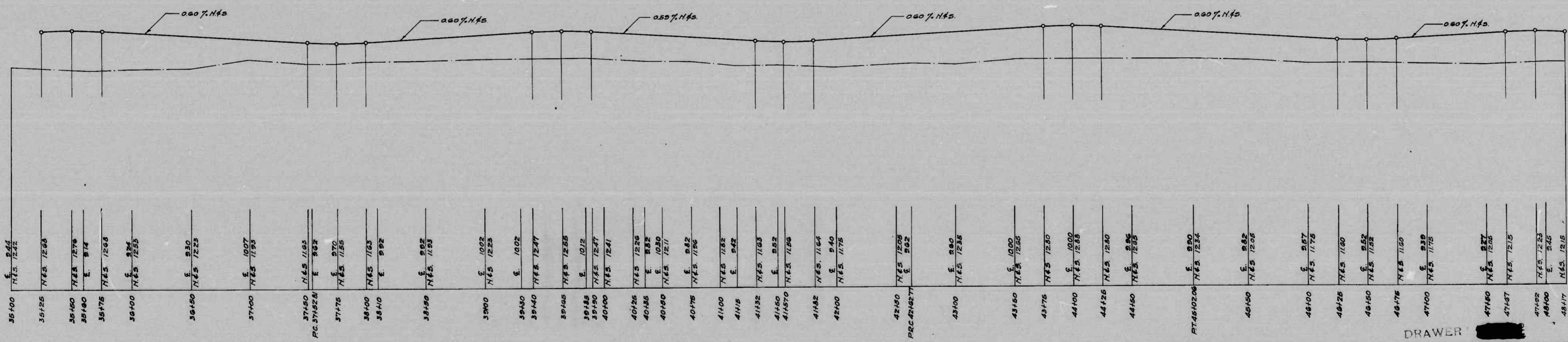
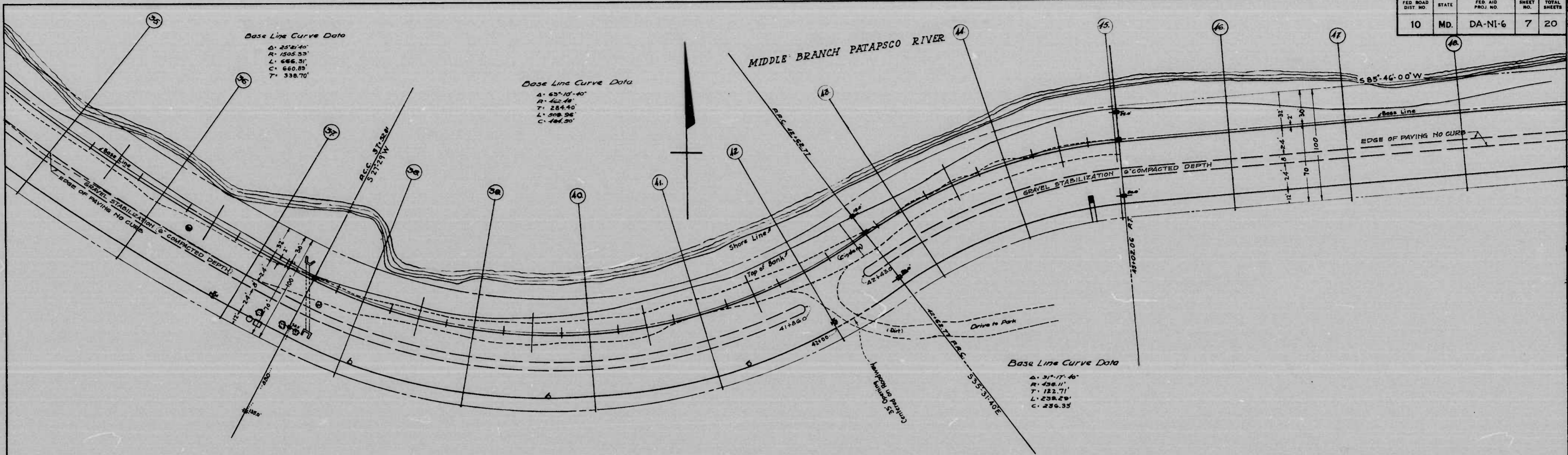
DRAWER

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT WATERVIEW AVE - ANNAPOLIS RD TO HANOVER ST CONT. NO. B.C. 167-766 F.A.P. NO. DA-NI-G SHEET NO. 5-A OF 20 PREL. TRAC. BY FINAL TRAC. BY
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1173

MICROFILMED ON APERTURE CARDS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-6	7	20



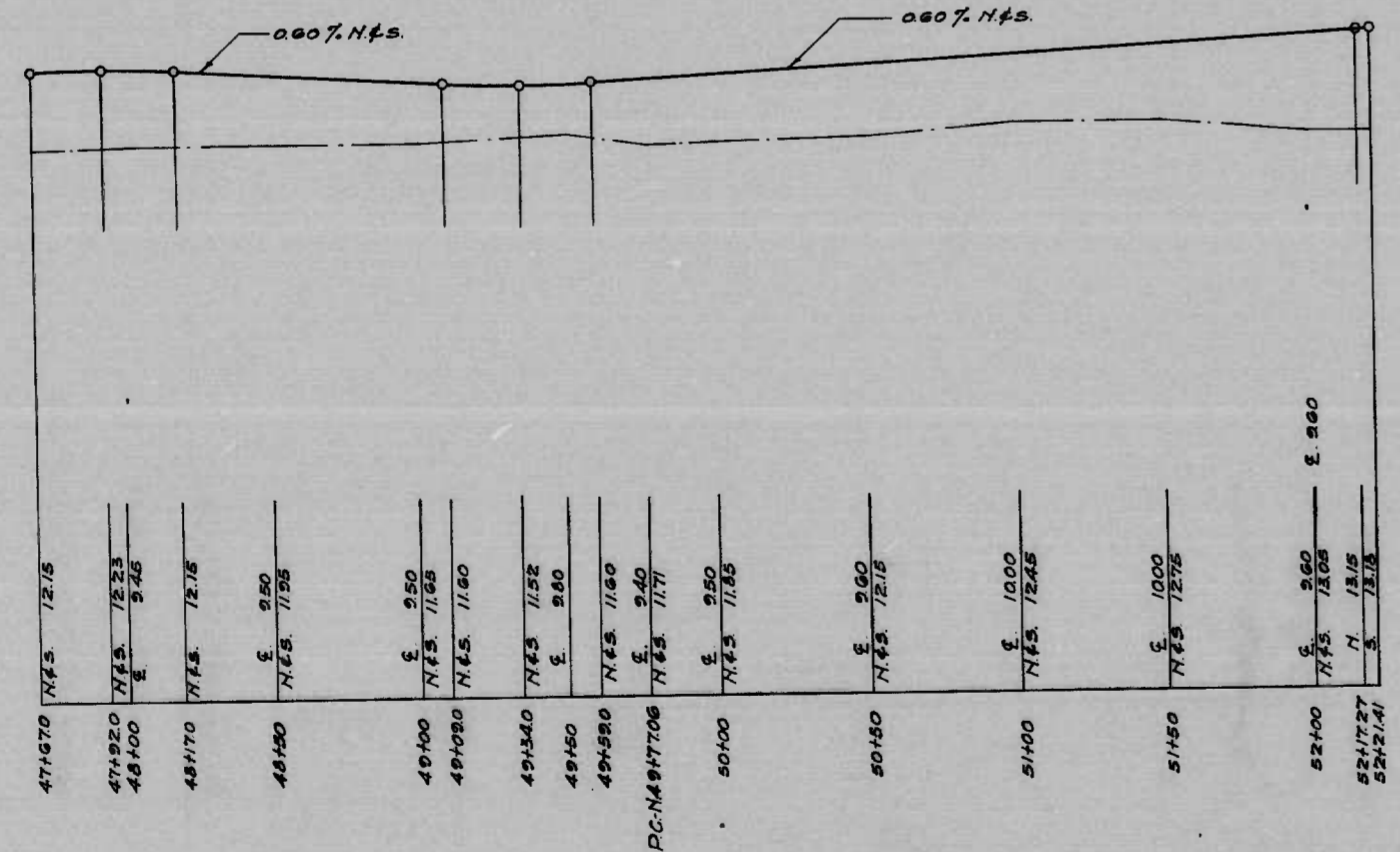
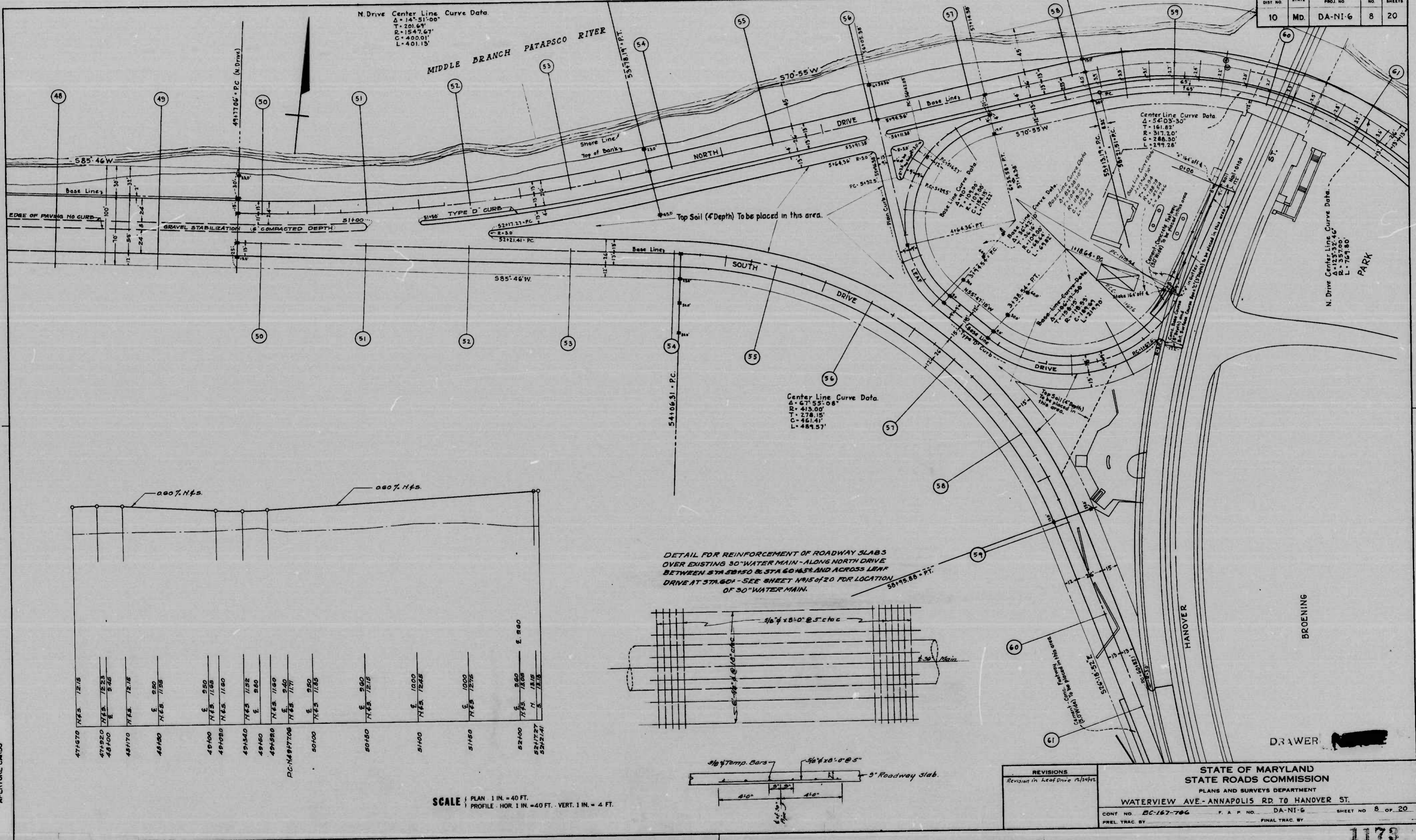
MICROFILMED ON APERTURE CARDS

SCALE | PLAN 1 IN = 40 FT.
 PROFILE HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

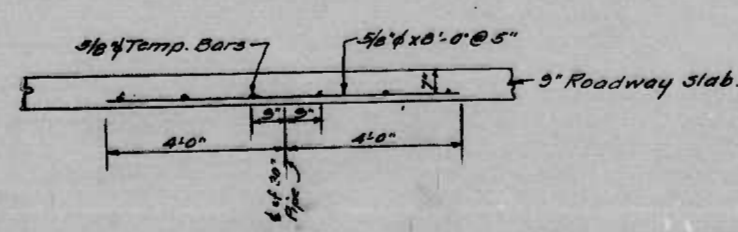
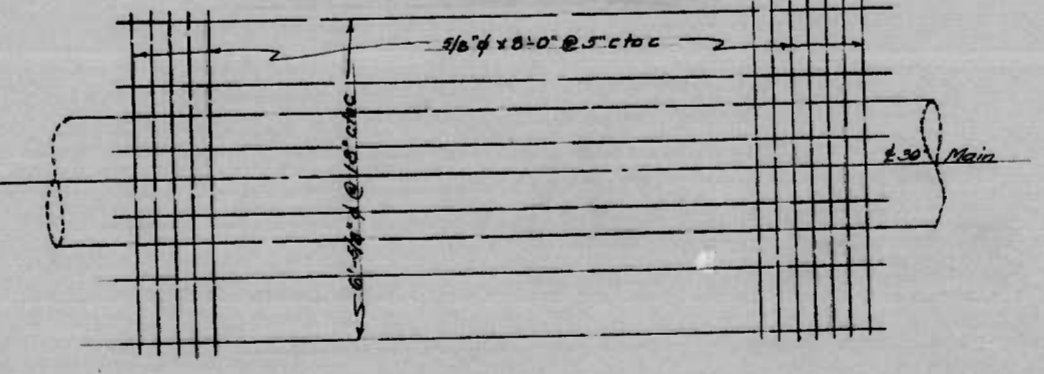
REVISIONS	DRAWER [REDACTED] STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT WATERVIEW AVE. ANNAPOLIS RD TO HANOVER ST. CONT. NO. DC-167-766 P. A. P. NO. DA-NI-6 SHEET NO. 7 OF 20 PREL. TRAC BY: FINAL TRAC BY:

1172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-6	8	20



DETAIL FOR REINFORCEMENT OF ROADWAY SLABS OVER EXISTING 30" WATER MAIN - ALONG NORTH DRIVE BETWEEN STA 50+50 & STA 60+65 AND ACROSS LEFT DRIVE AT STA 60+1 - SEE SHEET NRS OF 20 FOR LOCATION OF 30" WATER MAIN.



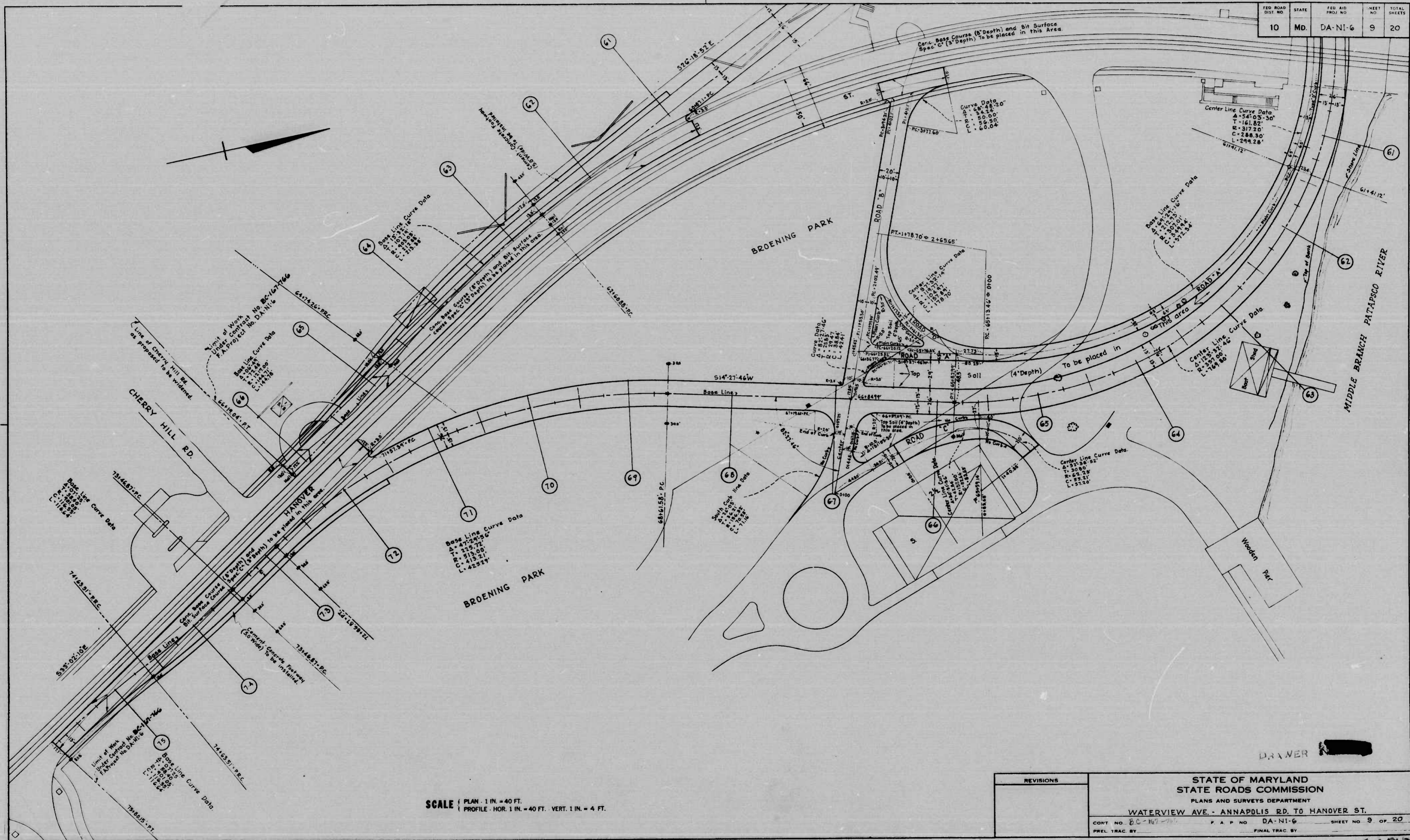
STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT WATERVIEW AVE - ANNAPOLIS RD TO HANOVER ST.	
CONT. NO. BC-167-706 PREL. TRAC. BY	F. A. P. NO. DA-NI-6 FINAL TRAC. BY
SHEET NO. 8 OF 20	

MICROFILMED FROM ORIGINAL APERTURE CARDS

SCALE: PLAN 1 IN. = 40 FT.
 PROFILE: HOR. 1 IN. = 40 FT., VERT. 1 IN. = 4 FT.

1173

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-6	9	20



MICROFILMED ON APERTURE CARDS

SCALE PLAN: 1 IN. = 40 FT. PROFILE: HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

NO.	REVISIONS

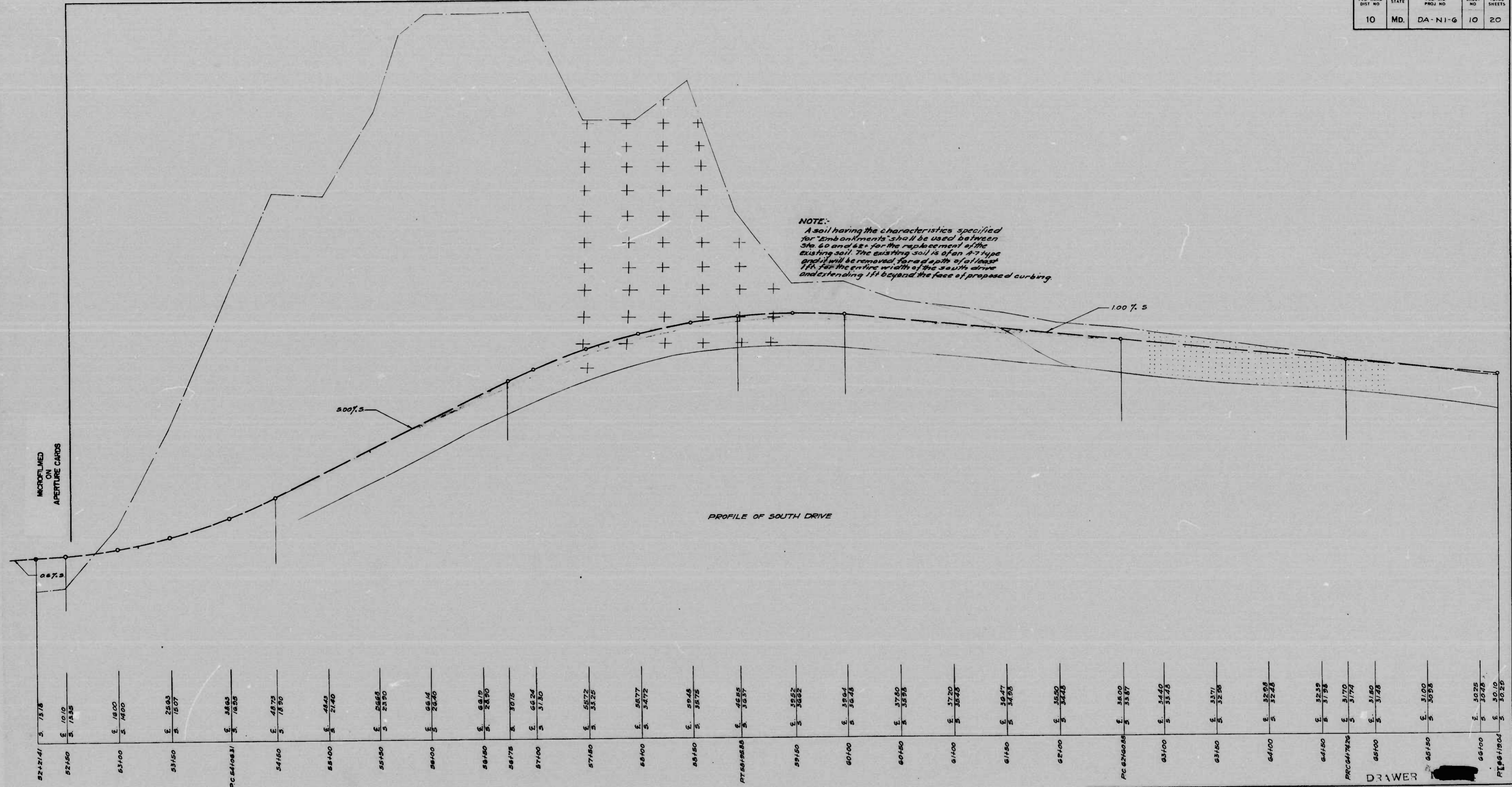
DRAWER [Signature]

STATE OF MARYLAND
STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT
WATERVIEW AVE. - ANNAPOLIS RD. TO HANOVER ST.

CONT. NO. B.C.-107-700 F.A.P. NO. DA-NI-6 SHEET NO. 9 OF 20
 PREL. TRAC. BY: FINAL TRAC. BY:

1173

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-6	10	20



52+21.41	S. 13.78	52+50	E. 10.10 S. 74.95	53+00	E. 18.00 S. 14.00	53+50	E. 25.83 S. 15.07	PC 54+08.31	E. 34.63 S. 14.55	54+50	E. 48.72 S. 15.50	55+00	E. 49.43 S. 21.40	55+50	E. 56.63 S. 23.90	56+00	E. 58.14 S. 25.40	56+50	E. 63.79 S. 28.50	57+00	E. 66.24 S. 31.30	57+50	E. 66.72 S. 35.25	58+00	E. 55.77 S. 34.72	58+50	E. 59.48 S. 35.75	PT 59+95.85	E. 45.85 S. 35.57	59+50	E. 39.52 S. 36.62	60+00	E. 38.64 S. 35.78	60+50	E. 37.50 S. 35.95	61+00	E. 37.20 S. 35.55	61+50	E. 36.47 S. 34.95	62+00	E. 35.50 S. 34.25	PC 62+60.88	E. 35.00 S. 33.87	63+00	E. 34.40 S. 33.75	63+50	E. 33.71 S. 32.56	64+00	E. 32.98 S. 32.25	64+50	E. 32.58 S. 31.98	PRC 64+74.25	E. 31.70 S. 31.74	65+00	E. 31.80 S. 31.28	65+50	E. 31.00 S. 30.98	66+00	E. 30.25 S. 30.28	PT 66+190.4	E. 30.10 S. 30.20
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SCALE | PLAN 1 IN. = 40 FT.
 PROFILE HOR. 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

REVISIONS

STATE OF MARYLAND
 STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT

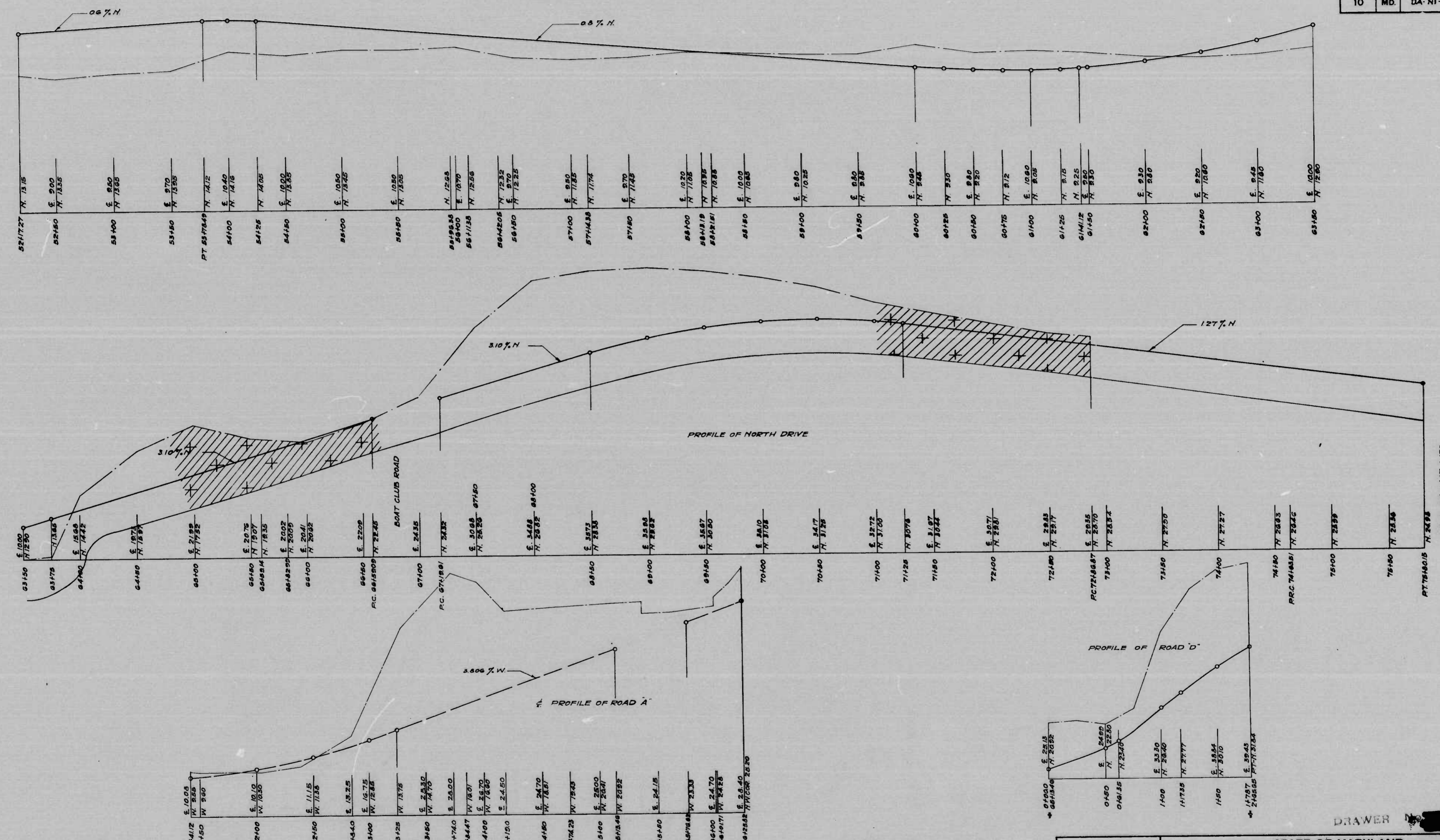
WATERVIEW AVE - ANNAPOLIS RD TO HANOVER ST

CONT. NO. EC-107-756 F A P NO. DA-NI-6 SHEET NO. 10 OF 20

PREL. TRAC. BY FINAL TRAC. BY

1173

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD.	DA-NI-G	11	20



MICROFILMED ON APERTURE CARDS

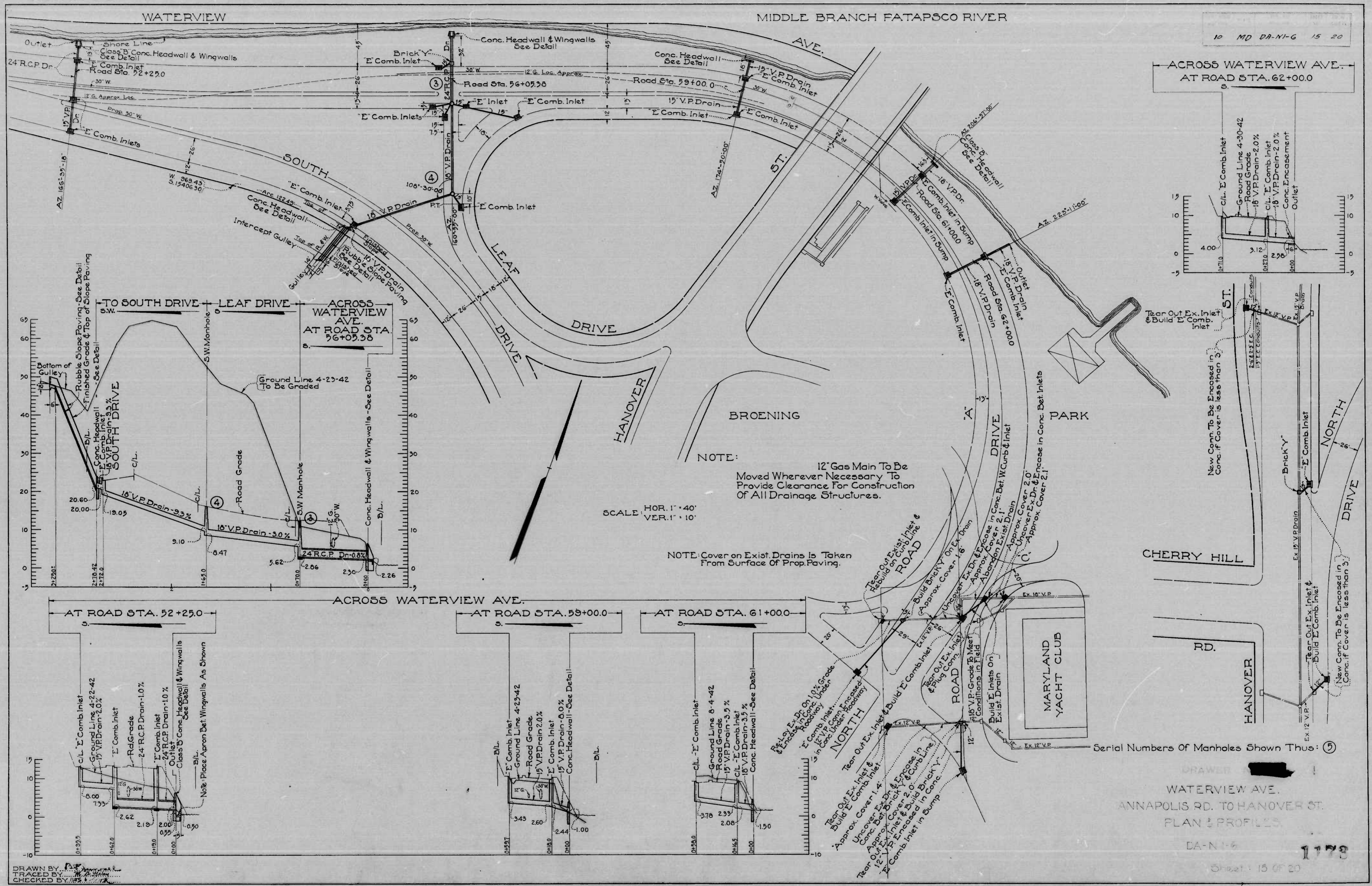
SCALE | PLAN 1 IN. = 40 FT.
 | PROFILE HOR 1 IN. = 40 FT. VERT. 1 IN. = 4 FT.

REVISIONS

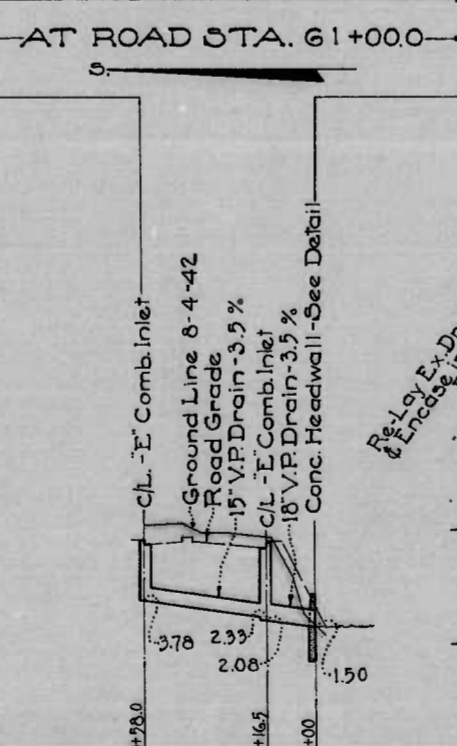
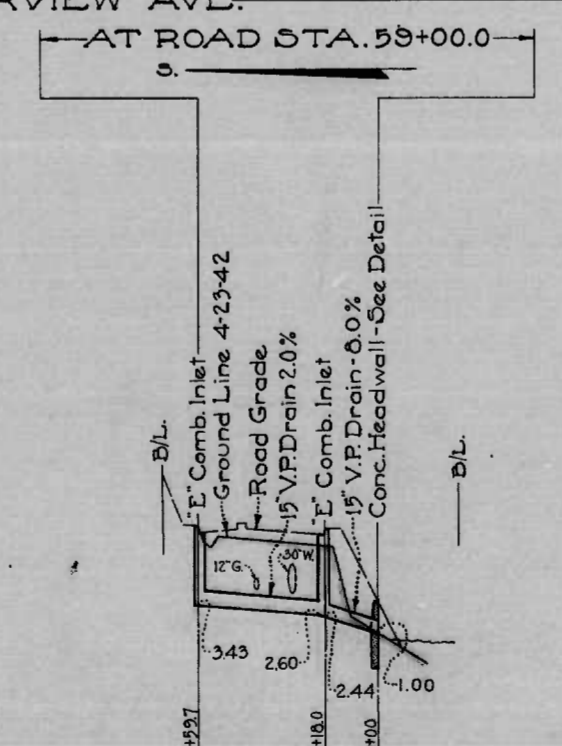
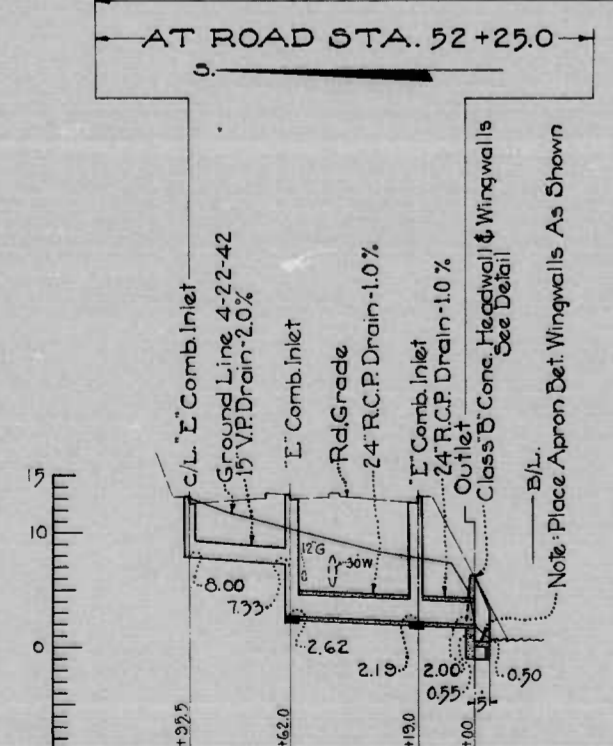
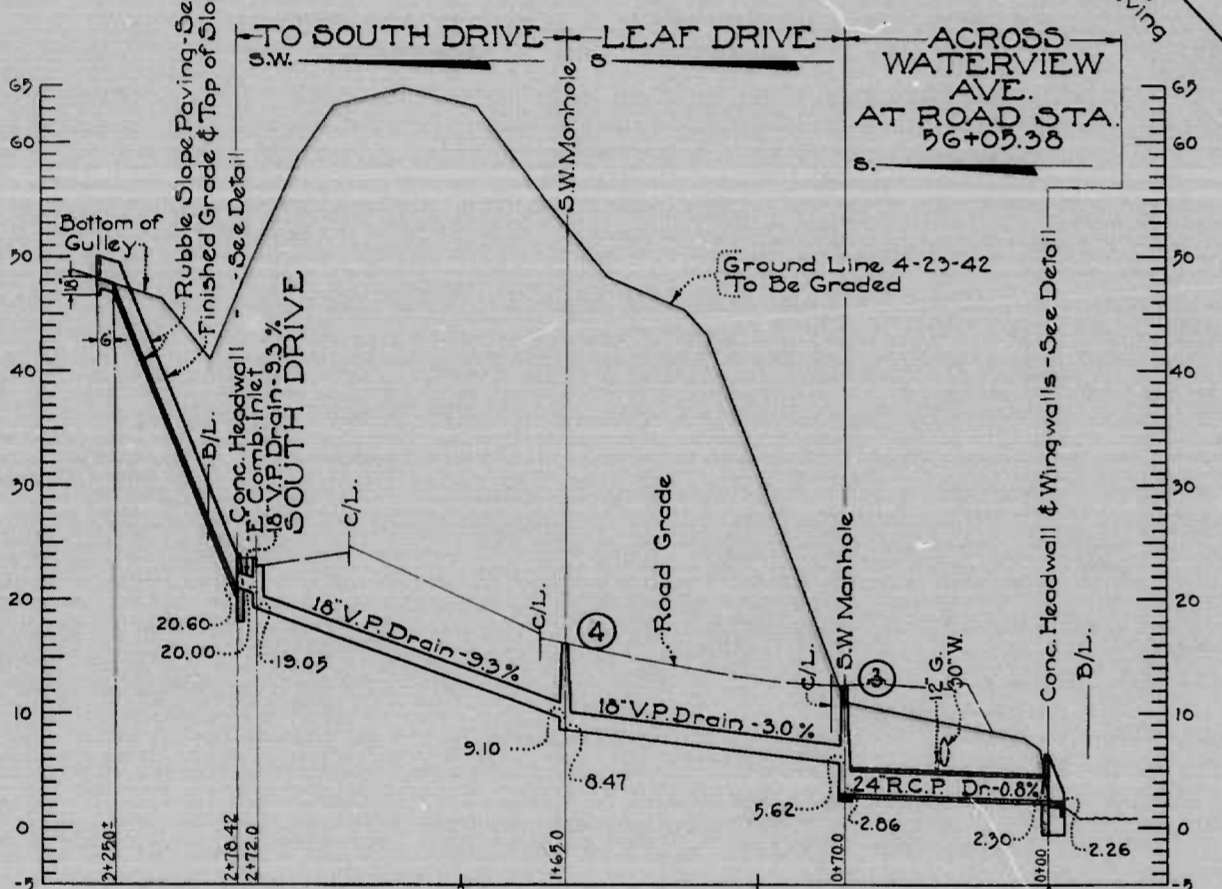
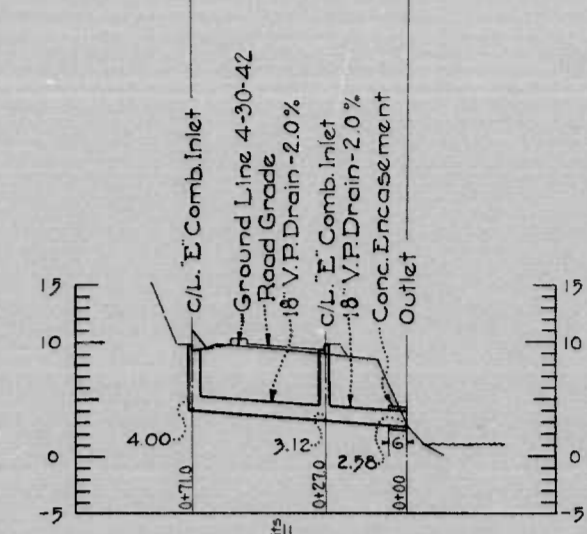
STATE OF MARYLAND
 STATE ROADS COMMISSION
 PLANS AND SURVEYS DEPARTMENT
 WATERVIEW AVE.-ANNAPOLIS RD TO HANOVER ST.
 CONT. NO. 100-157 F. A. P. NO. DA-NI-G SHEET NO. 11 OF 20
 PREL. TRAC. BY: FINAL TRAC. BY:

DRAWER

D.S. 80-33562



ACROSS WATERVIEW AVE. AT ROAD STA. 62+00.0



NOTE: 12' Gas Main To Be Moved Wherever Necessary To Provide Clearance For Construction Of All Drainage Structures.

SCALE: HOR. 1" = 40'
VER. 1" = 10'

NOTE: Cover on Exist. Drains Is Taken From Surface Of Prop. Paving.

Serial Numbers of Manholes Shown Thus: (5)

DRAWN BY: [Redacted]

WATERVIEW AVE.
ANNAPOLIS RD. TO HANOVER ST.
PLAN & PROFILES.

DA-NI-6 1179

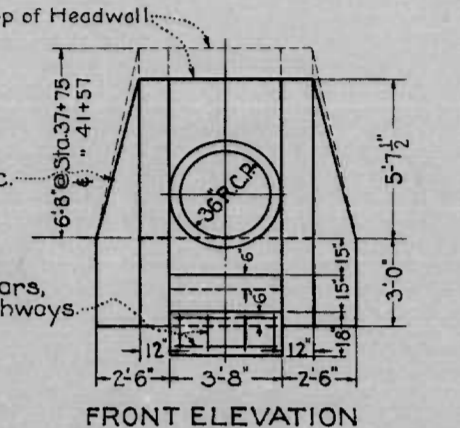
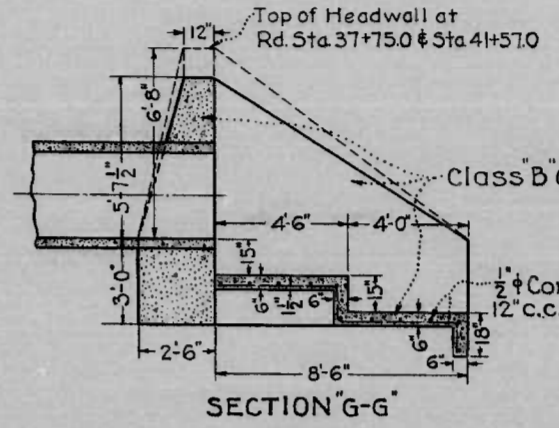
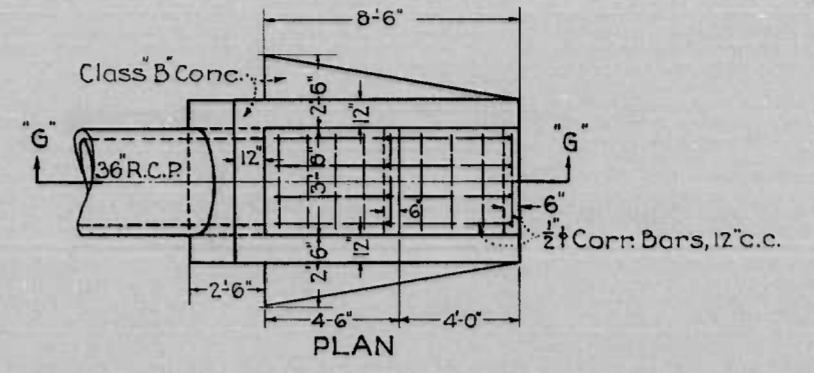
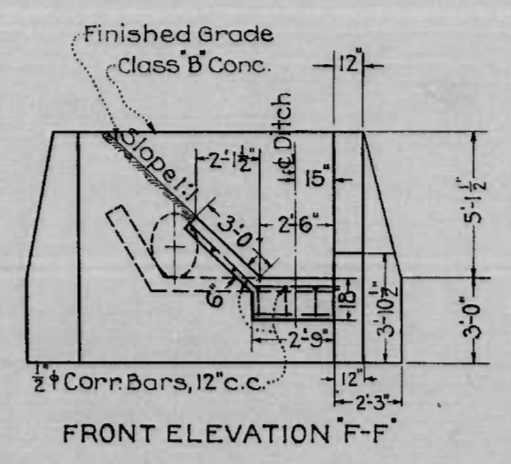
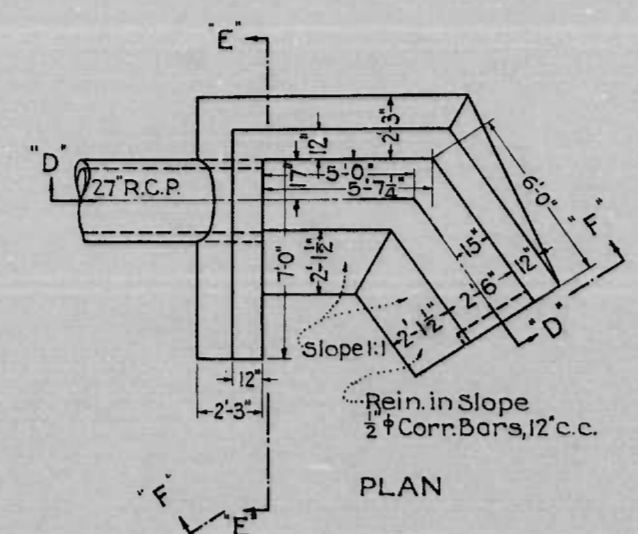
Sheet: 15 OF 20

MICROFILMED ON APERTURE CARDS

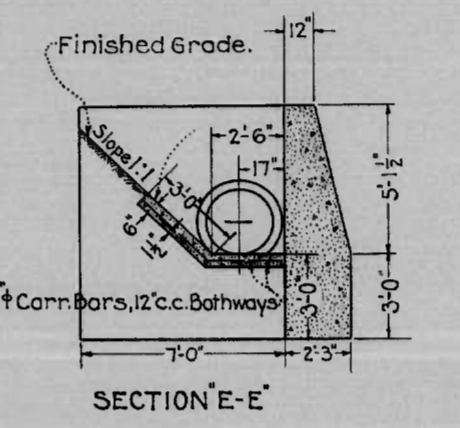
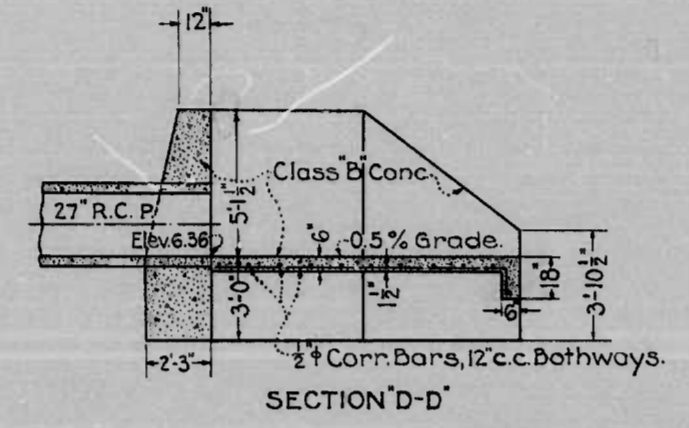
DRAWN BY: [Redacted]
TRACED BY: [Redacted]
CHECKED BY: [Redacted]

B.S. 80-33563

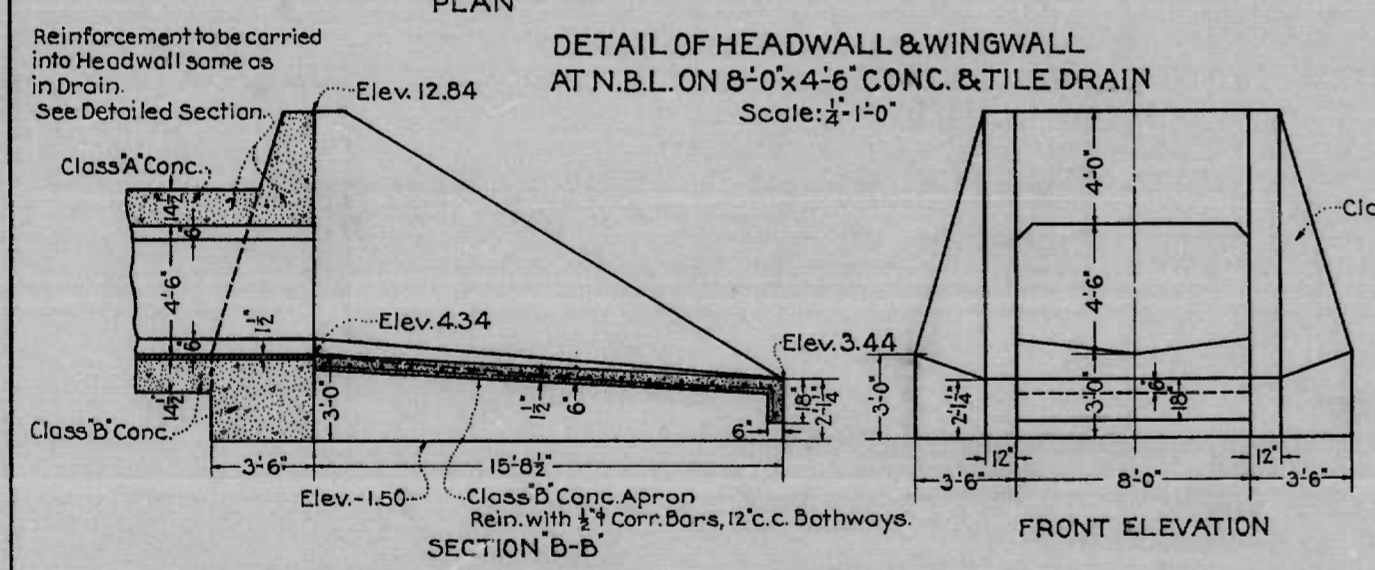
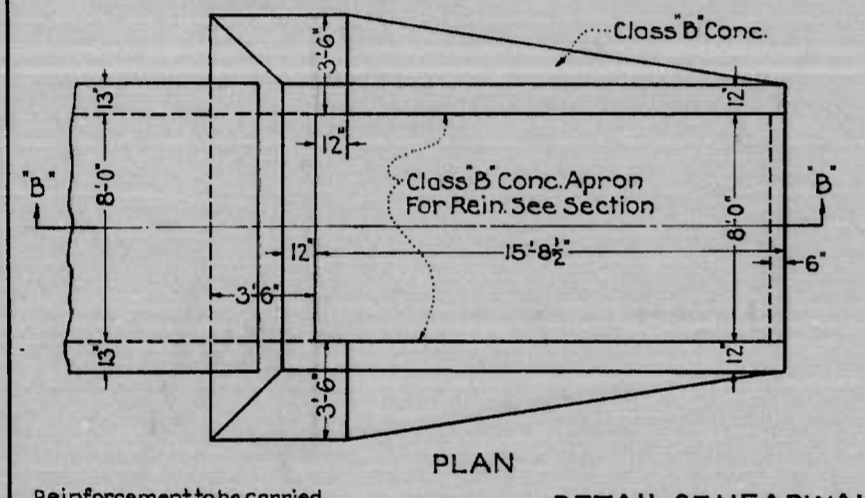
DATE	10 MD DA-N1-6	16 20
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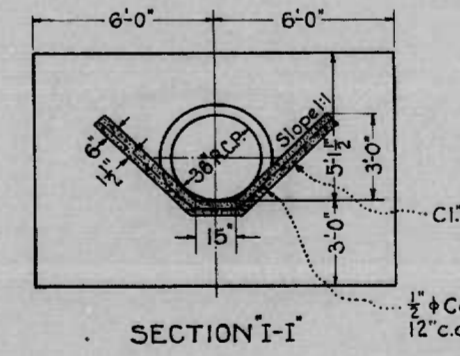
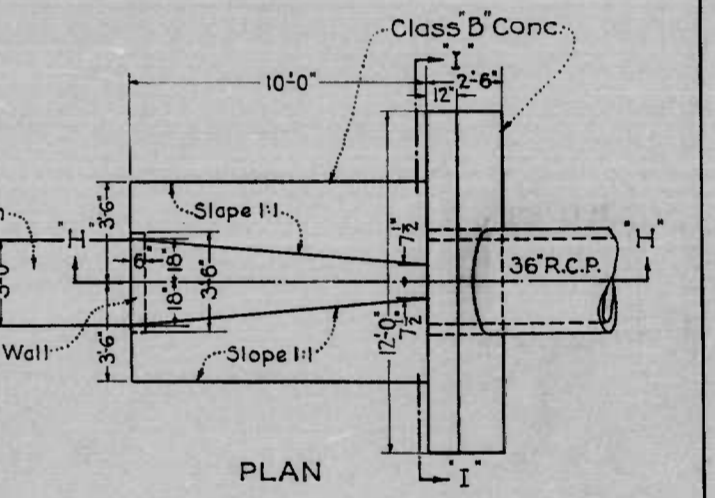
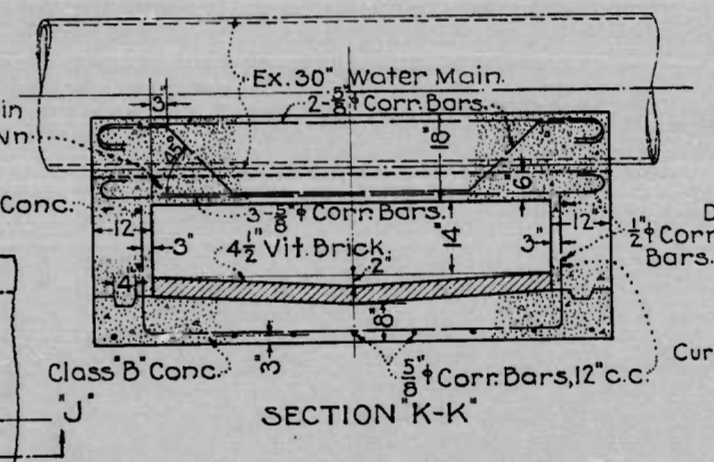
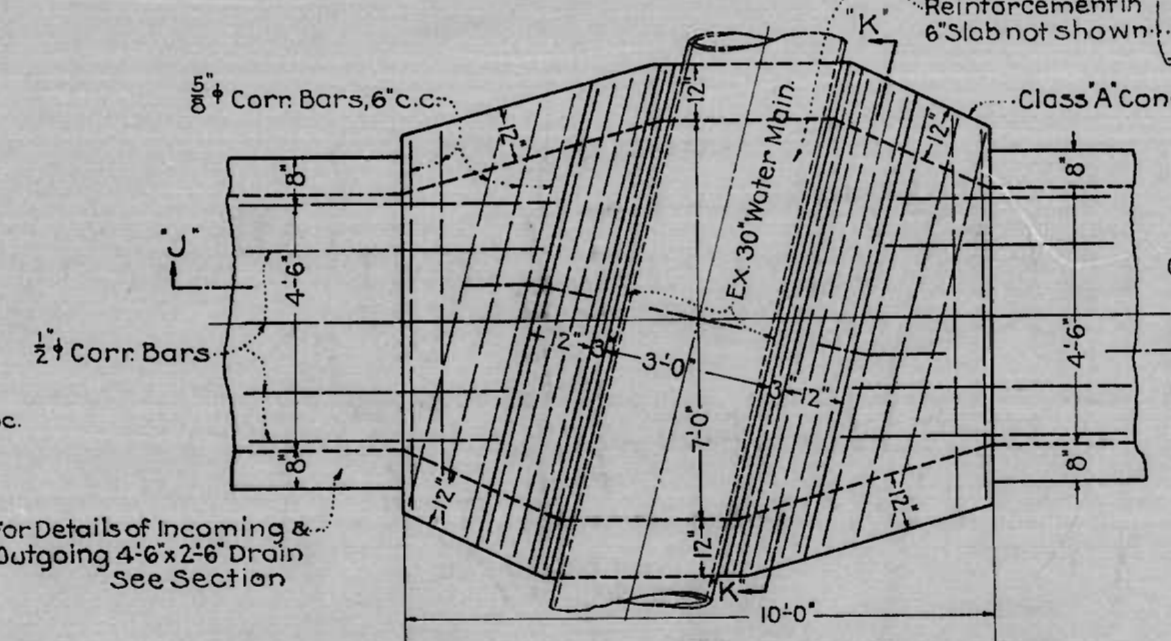
DETAIL OF HEADWALL & WINGWALLS ON 36" & 42" R.C.P. DRAINS AT ROAD STA. 22+40.0, 37+75.0 & 41+57.0 Scale: 1/4" = 1'-0"



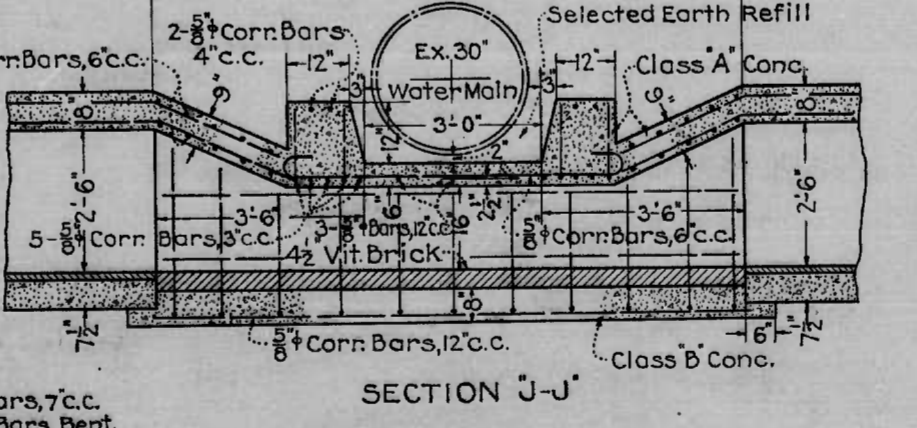
DETAIL OF HEADWALL & SLOPE PAVING AT ROAD STA. 17+65.0 Scale: 1/4" = 1'-0"



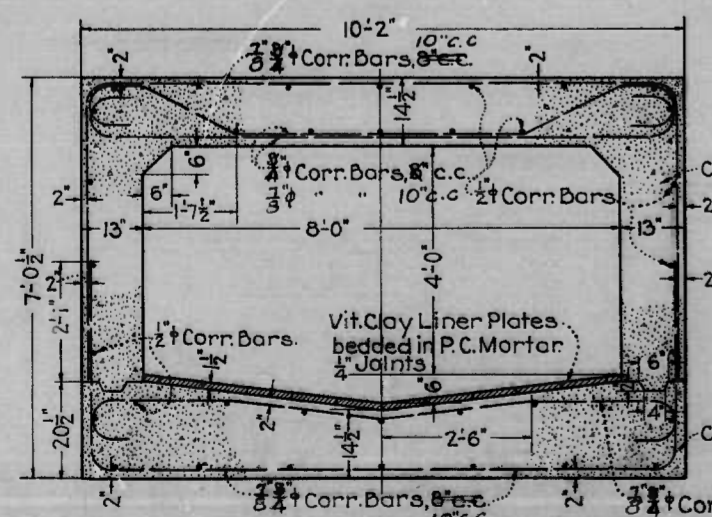
DETAIL OF HEADWALL & WINGWALL AT N.B.L. ON 8'-0" x 4'-6" CONC. & TILE DRAIN Scale: 1/4" = 1'-0"



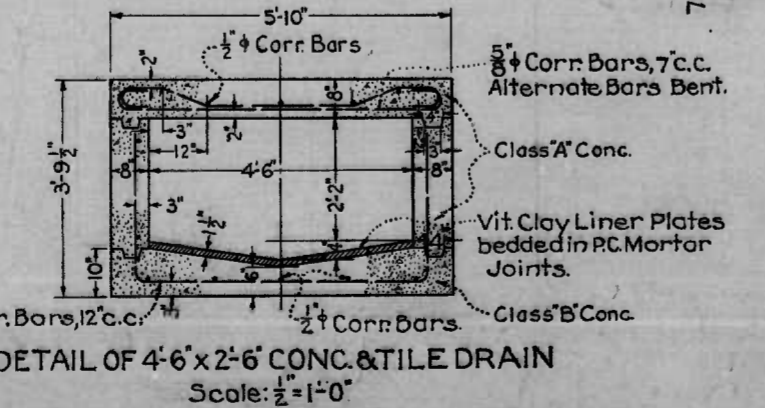
DETAIL OF HEADWALL & SLOPE PAVING AT ROAD STA. 22+40.0 Scale: 1/4" = 1'-0"



DETAIL OF CHANGING SECTION AT ROAD STA. 12+70± Scale: 1/2" = 1'-0"



Size & Spacing of Bars Revised 1-6-43



MICROFILMED APERTURE CARDS

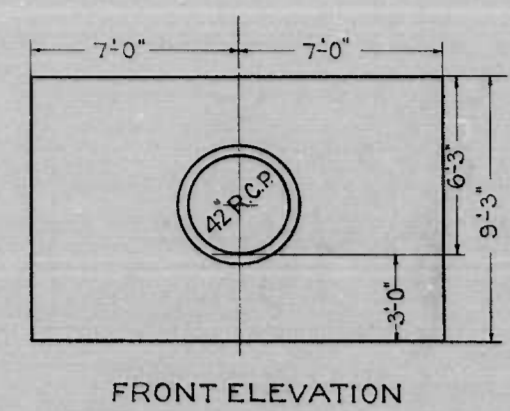
DRAWN BY
TRACED BY
CHECKED BY

DRAWER N
WATERVIEW AVE.
ANNAPOLIS RD. TO HANOVER ST.
DETAILS
DA-N1-6
1179

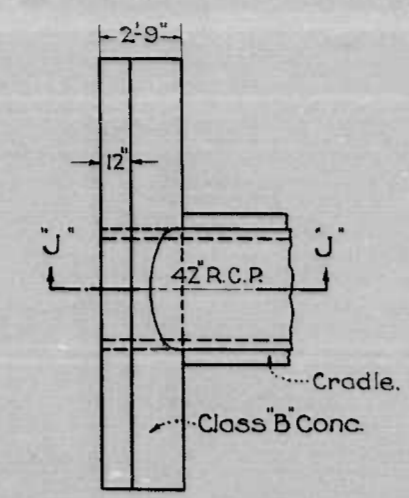
Sheet 16 OF 20

B.S. 80-33563

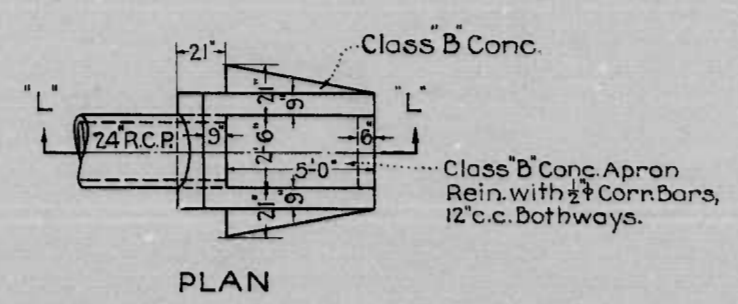
B.S.80-33564



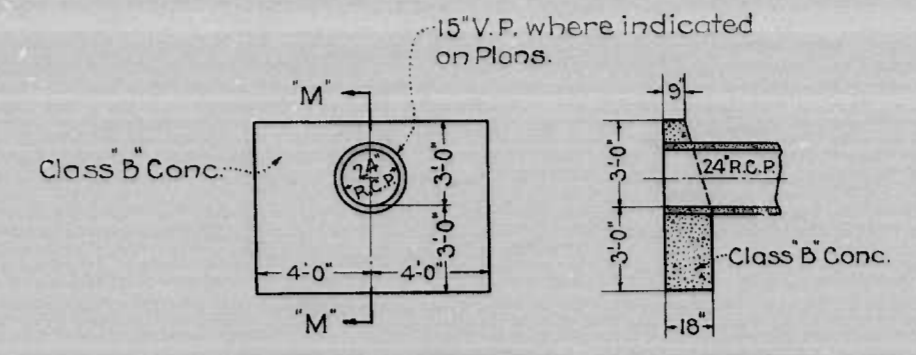
FRONT ELEVATION



PLAN

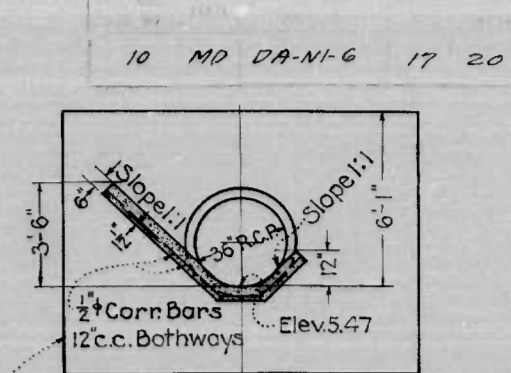


PLAN



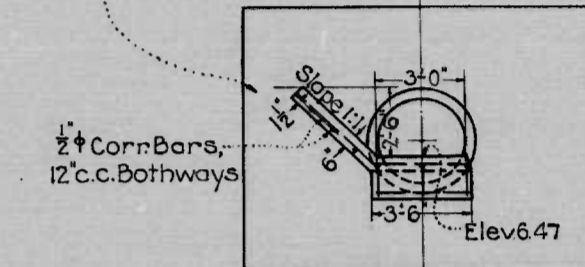
FRONT ELEVATION SECTION M-M

HEADWALL ON 15" V.P. & 24" R.C.P. DRAINS, ROAD STA. 8+15.0, 17+65.0, 33+04.5, 46+50.0, 49+34.0, 59+00, 61+00.0 & 55+37± (South Drive) Scale: 1/4"=1'-0"

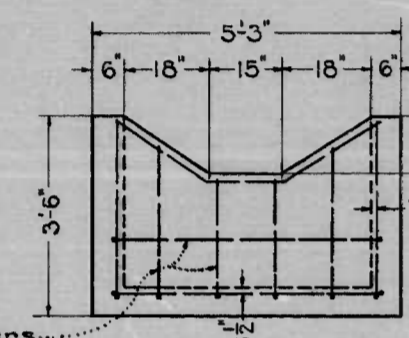


SECTION THRU. SLOPE PAVING AT FACE OF HEADWALL ON S.B.L. ROAD STA. 41+57.0 Scale: 1/4"=1'-0"

Except as shown all Details & Materials are same as Headwall & Slope Paving at Road Sta. 22+40

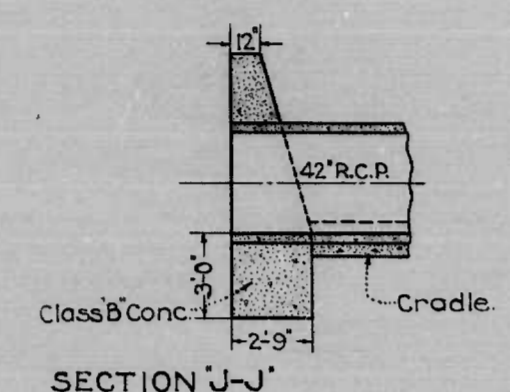


FRONT ELEVATION SLOPE PAVING ROAD STA. 41+57.0 Scale: 1/4"=1'-0"



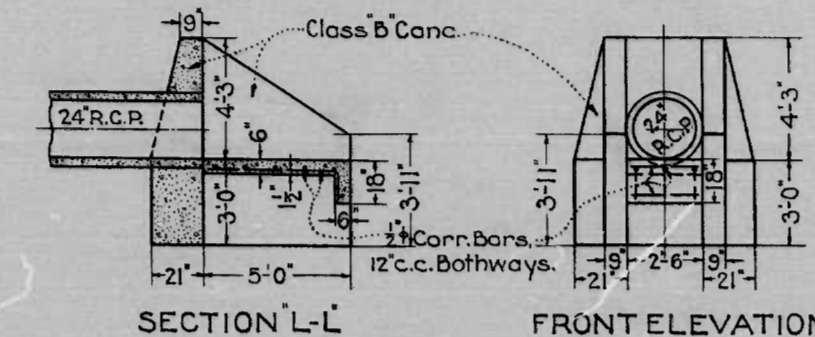
FRONT ELEVATION

1/2" Corrn Bars, 12" c.c. Bothways



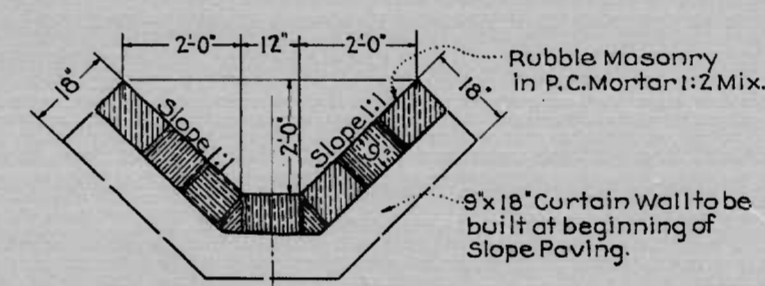
SECTION J-J

HEADWALL AT ROAD STA. 37+75.0 Scale: 1/4"=1'-0"



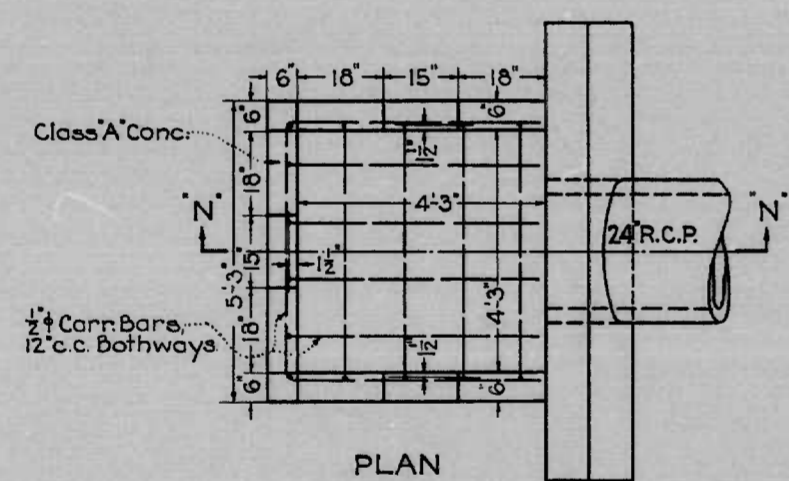
SECTION L-L FRONT ELEVATION

HEADWALL & WINGWALLS AT ROAD STA. 26+50.0, 33+04.5, 46+50.0, 49+34.0, 52+25.0 & 56+05.38 Scale: 1/4"=1'-0"

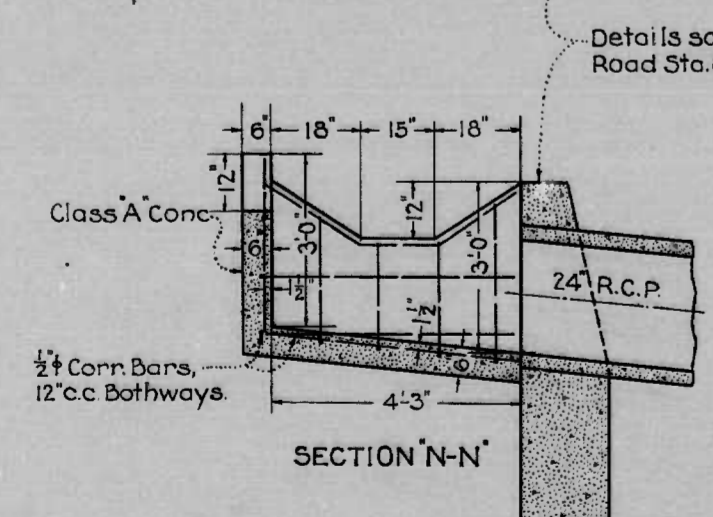


DETAIL OF SLOPE PAVING SOUTH DRIVE ROAD STA. 55+37.0 Scale: 1/2"=1'-0"

Rubble Masonry in P.C. Mortar 1:2 Mix. 8" x 18" Curtain Wall to be built at beginning of Slope Paving.

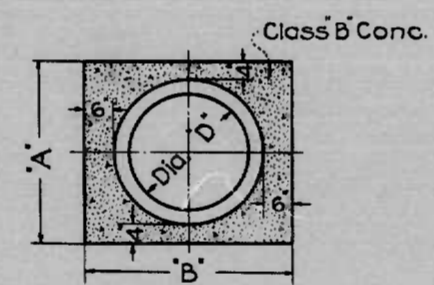


PLAN



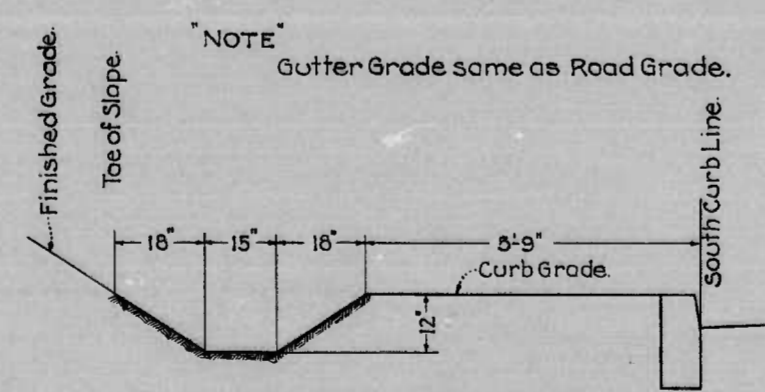
SECTION N-N

DETAIL OF CATCH BASIN AT ROAD STA. 33+04.5 & RD. STA. 49+34.0 Scale: 1/2"=1'-0"



CONCRETE PIPE ENCASEMENT No Scale.

DIMENSIONS		
D	A	B
24	3'-2"	3'-6"
27	3'-6"	3'-10"
36	4'-4"	4'-8"
42	4'-11"	5'-3"



SECTION OF DRAINAGE GUTTER TO BE BUILT FROM ROAD STA. 31+50.0 TO ROAD STA. 35+50.0 & FROM RD. STA. 49+25.0 TO RD. STA. 52+00.0 Scale: 1/2"=1'-0"

NOTE: Gutter Grade same as Road Grade.

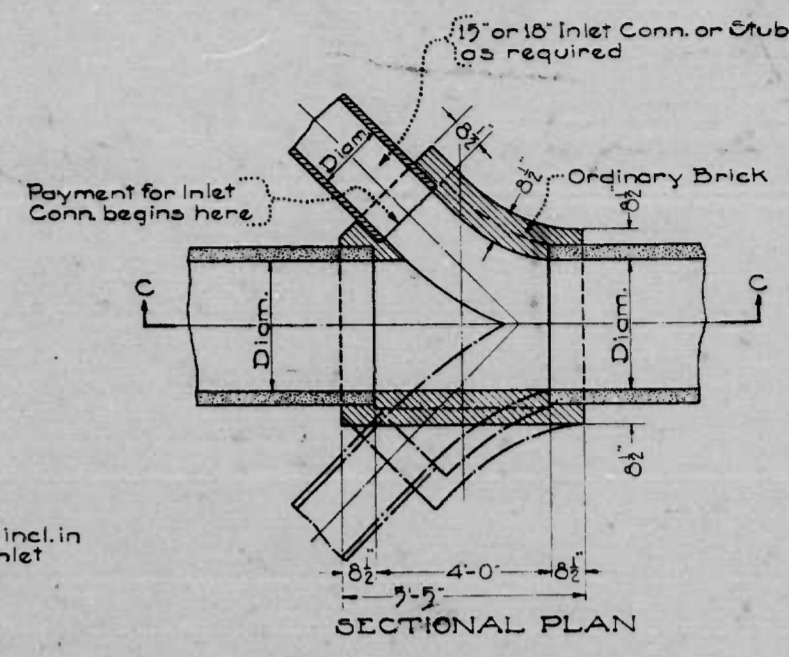
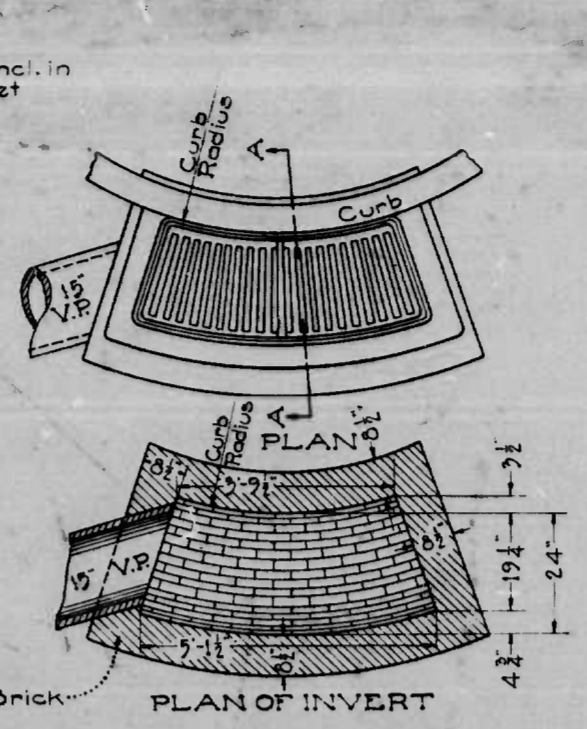
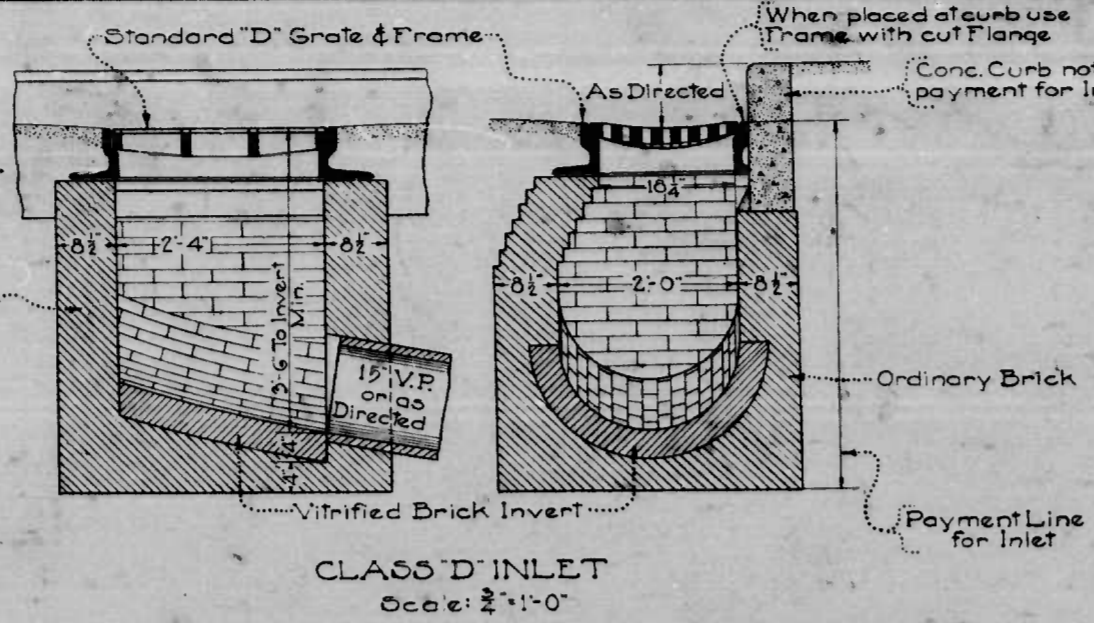
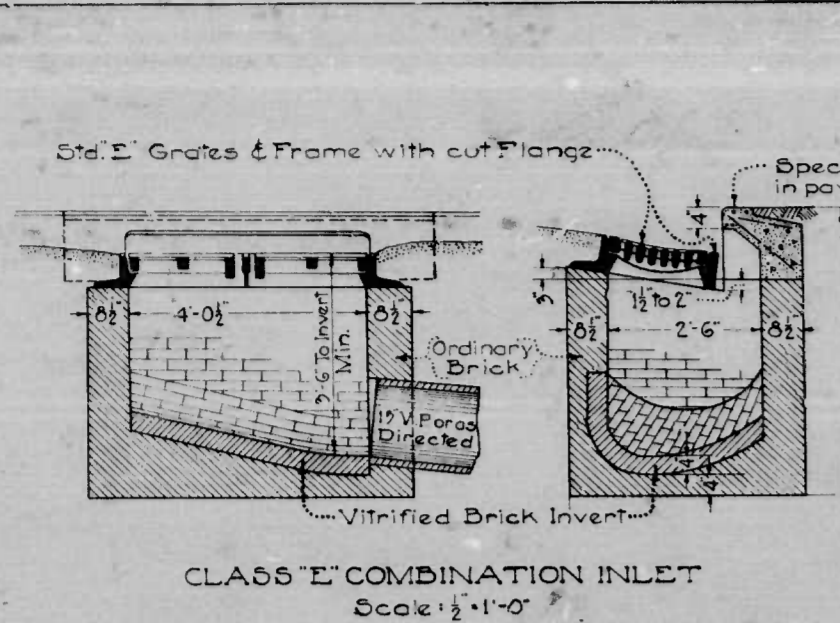
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WATERVIEW AVE.
ANNAPOLIS RD. TO HANOVER ST.
DETAILS
DA-N-1-6 1179

Sheet 17 OF 20

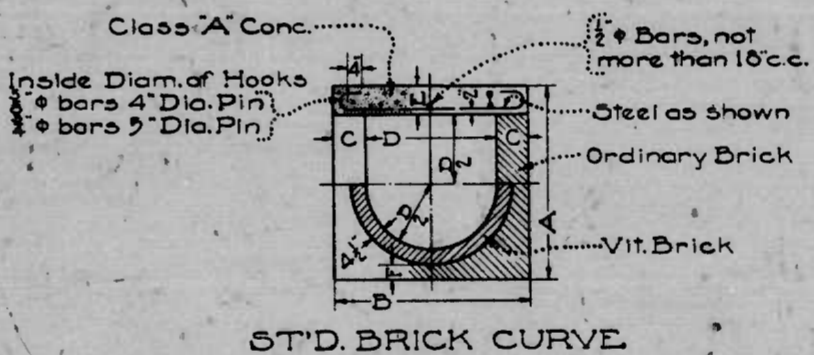
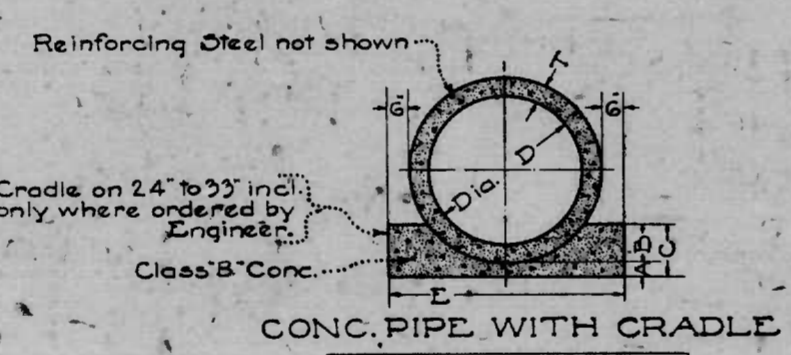
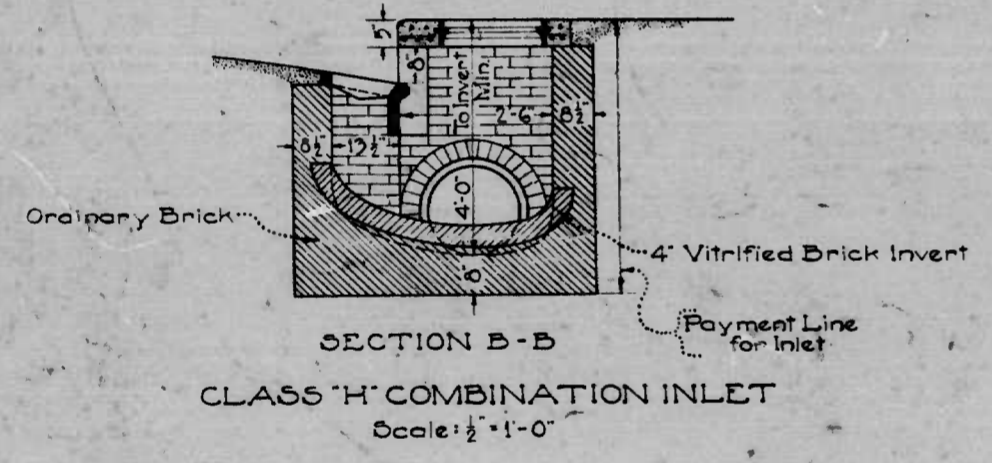
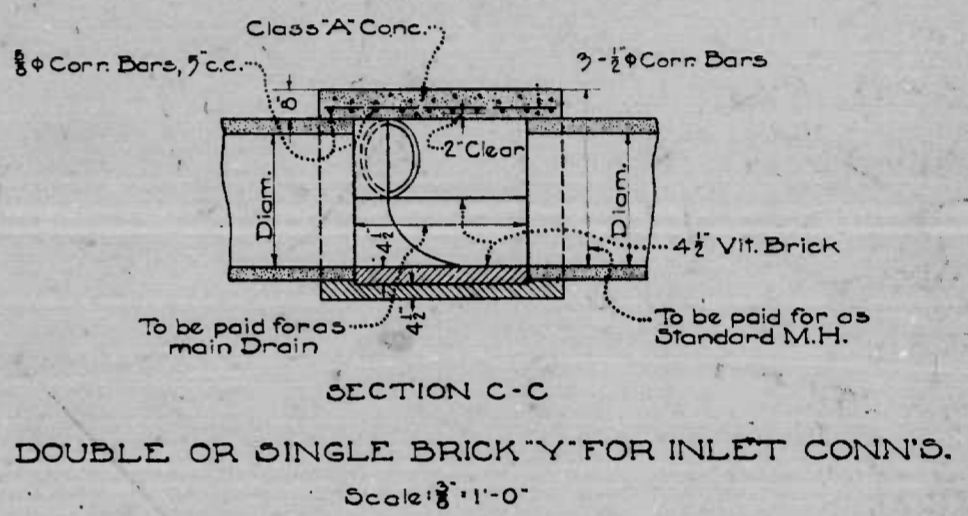
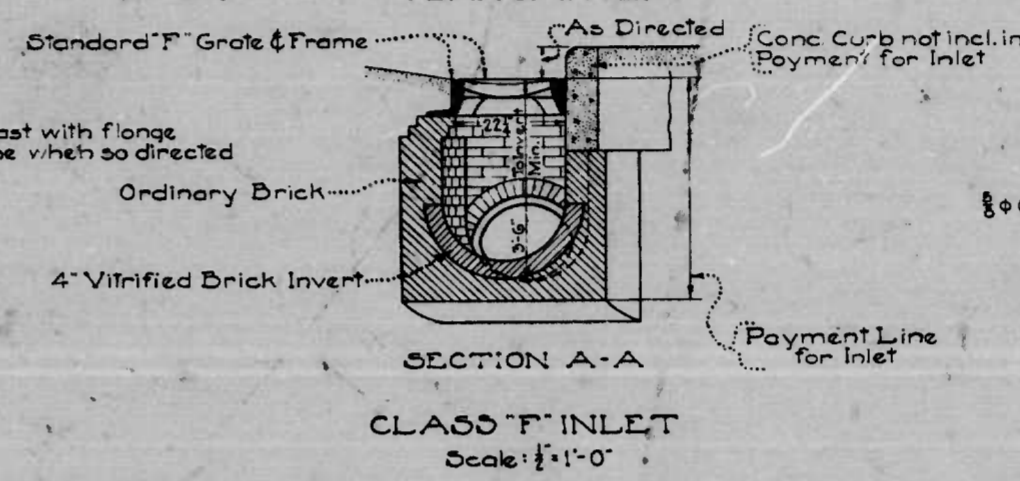
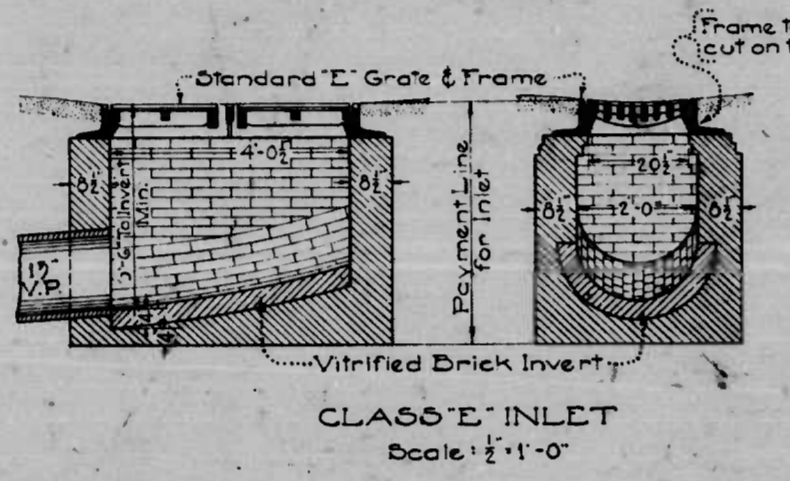
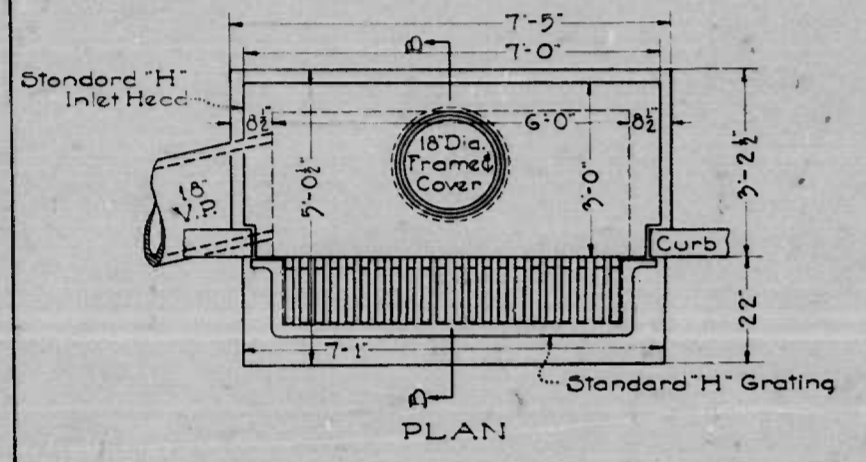
B.S.80-33564

REV.	DATE	BY	APP.
10	MD	DA-NI-G	18 20



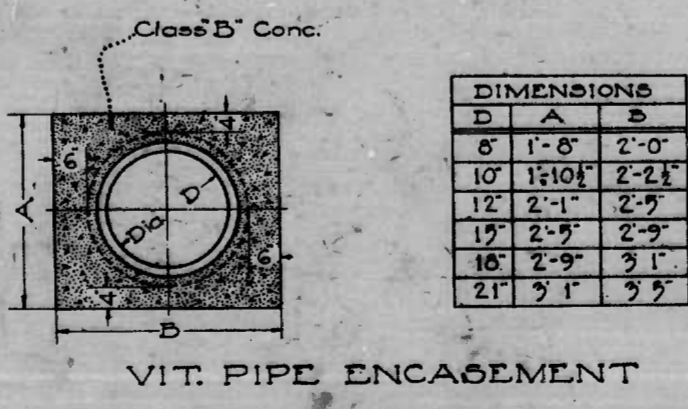
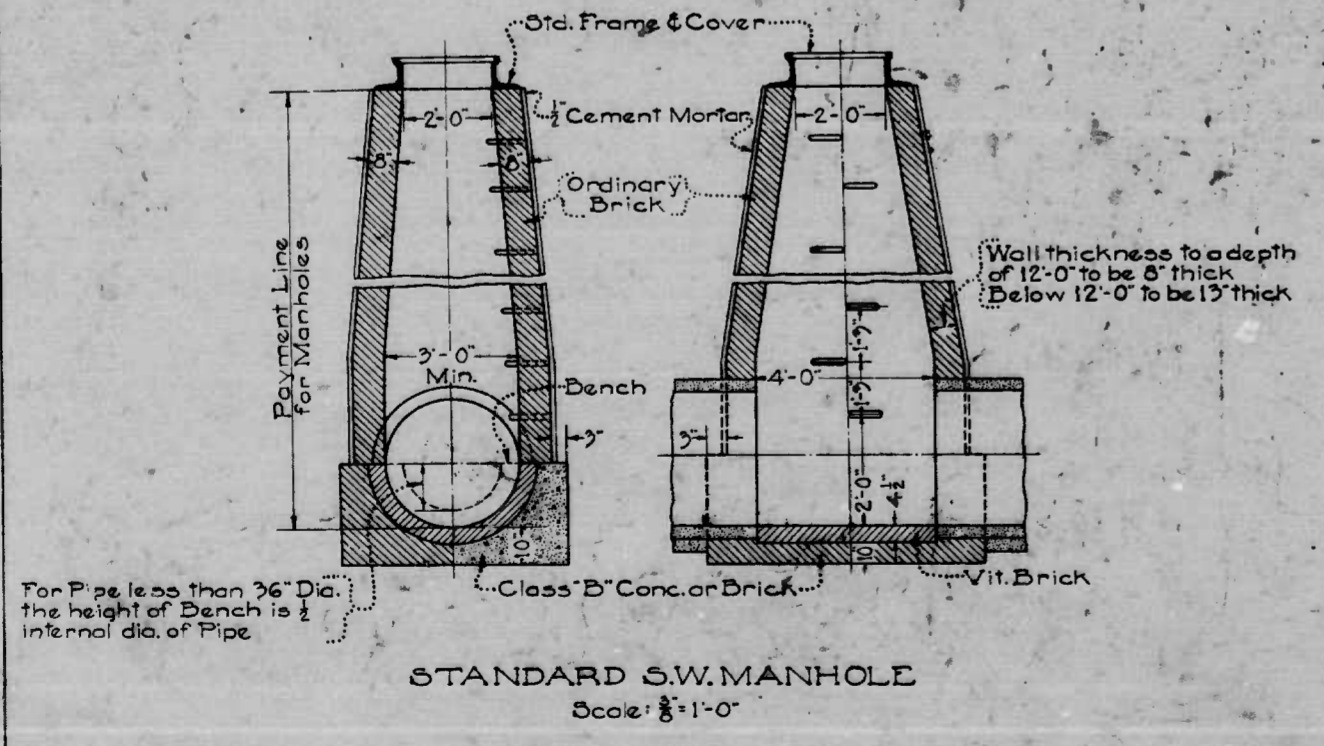
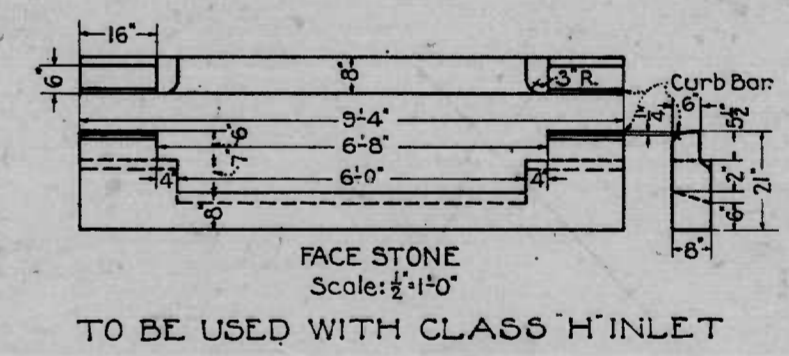
Note: Inverts to slope of least 2" per foot toward outlet

Note: Direction of Inlet Connections will vary to suit conditions



DIMENSIONS						
D	A	B	C	Feet	T	
inches	inches	inches	inches	inches	inches	
24	3	6	9	3-6	3	
27	3	7	10	3-10	3 1/2	
30	4	7 1/2	11 1/2	4-1	3 1/2	
33	4	8	12	4-7	4	
36	4	9	13	4-8	4	
42	4	10 1/2	14 1/2	5-3	4 1/2	
48	4	12	16	5-10	5	
54	4	13 1/2	17 1/2	6-5	5 1/2	

DIMENSIONS						
Size	A	B	C	E	F	Steel
24"	5'-9"	5'-6"	9"	8"	4 1/2"	3/4" Conn. Bars 10' c.c.
27"	5'-8"	5'-9"	9"	8"	4 1/2"	3/4" Conn. Bars 8' c.c.
30"	5'-11"	4'-0"	9"	8"	4 1/2"	3/4" Conn. Bars 7' c.c.
33"	4'-2"	4'-3"	9"	8"	4 1/2"	3/4" Conn. Bars 6' c.c.
36"	4'-7"	4'-6"	9"	8"	4 1/2"	3/4" Conn. Bars 5' c.c.
42"	5'-7"	5'-8"	13"	10"	6 1/2"	3/4" Conn. Bars 6' c.c.
48"	5'-7"	6'-2"	13"	10"	6 1/2"	3/4" Conn. Bars 7' c.c.
54"	6'-7"	6'-8"	13"	10"	6 1/2"	3/4" Conn. Bars 8' c.c.



DIMENSIONS		
D	A	B
8"	1'-8"	2'-0"
10"	1'-10"	2'-2 1/2"
12"	2'-1"	2'-5"
15"	2'-5"	2'-9"
18"	2'-9"	3'-1"
21"	3'-1"	3'-5"

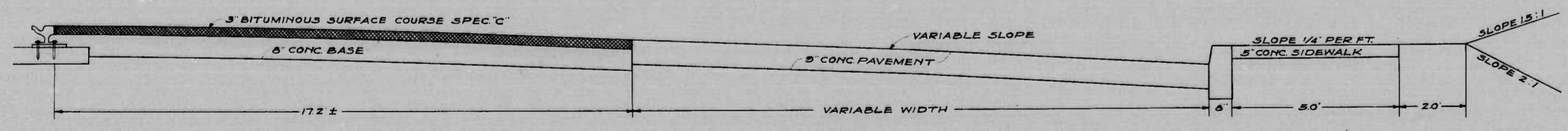
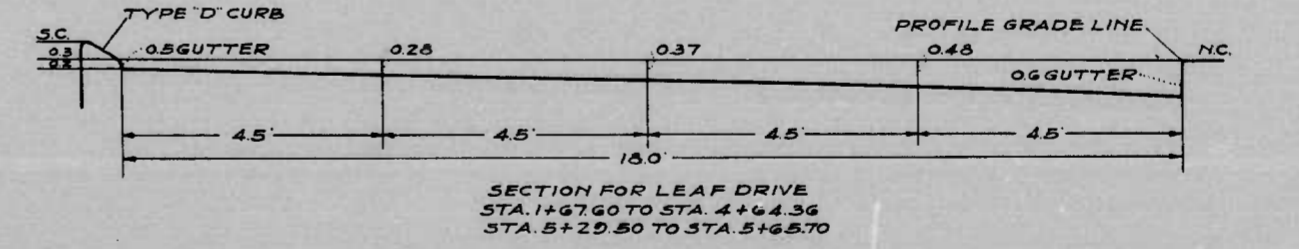
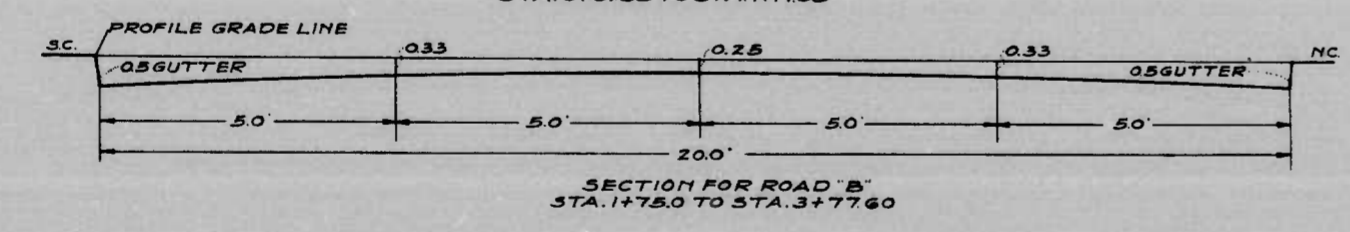
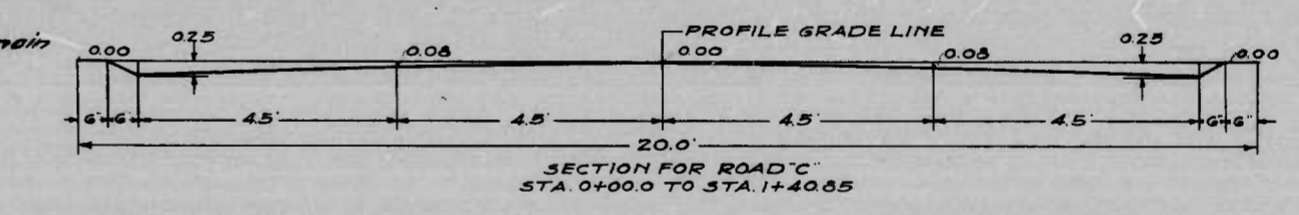
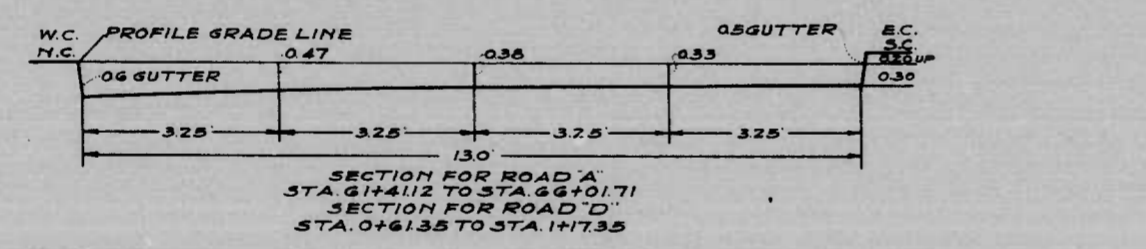
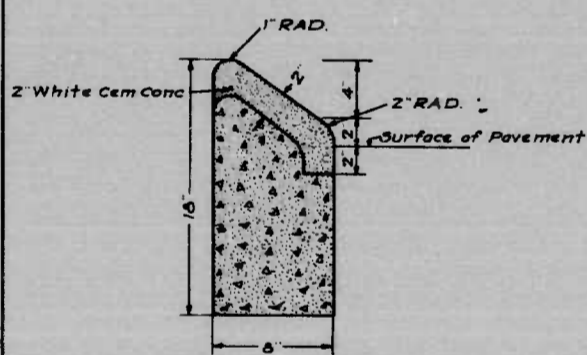
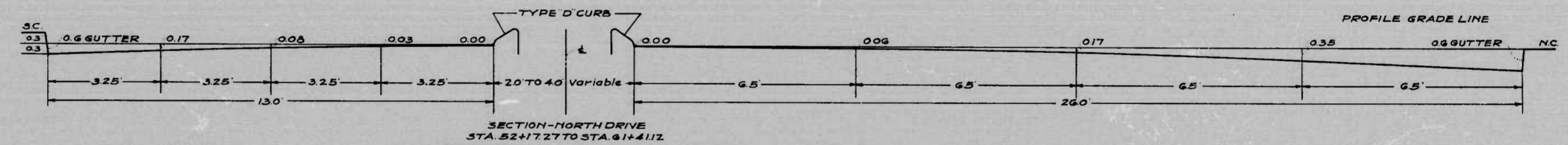
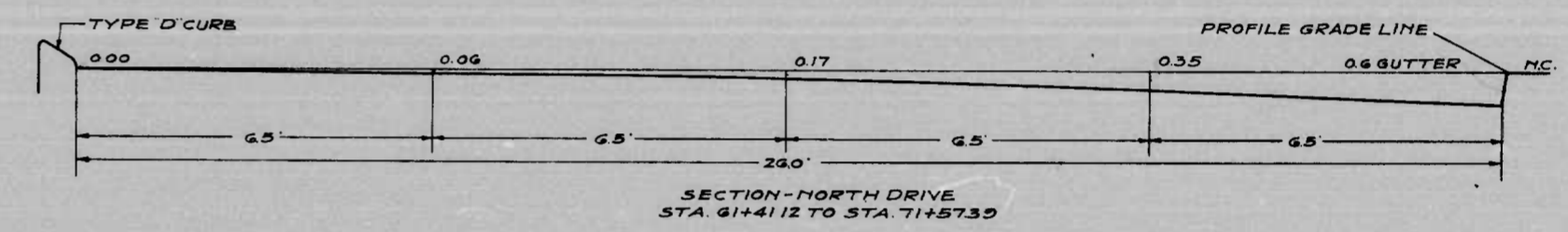
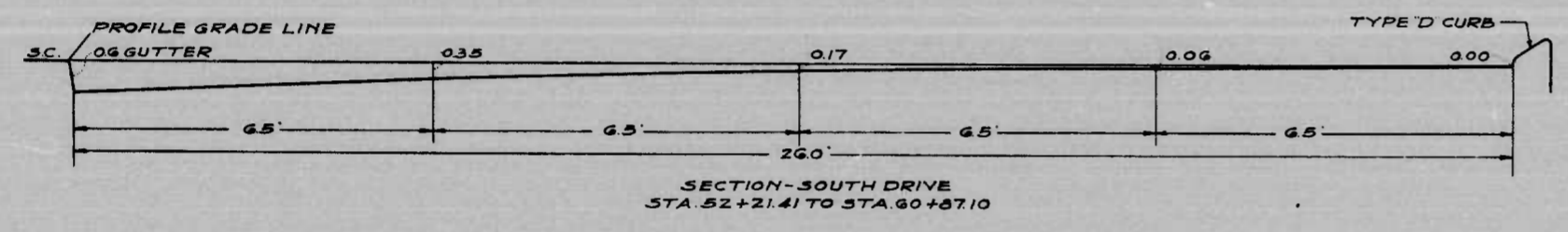
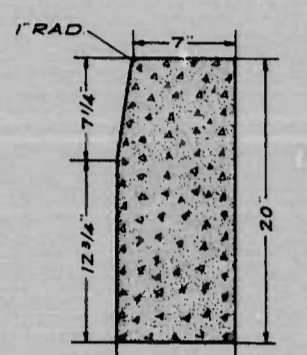
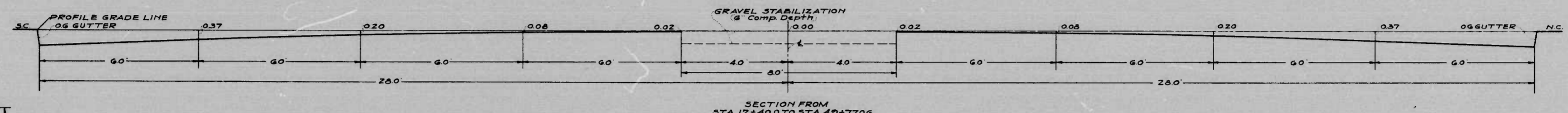
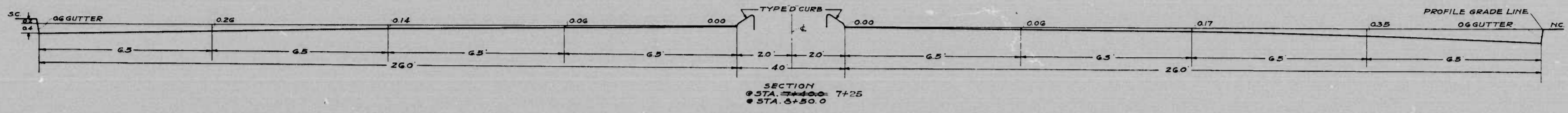
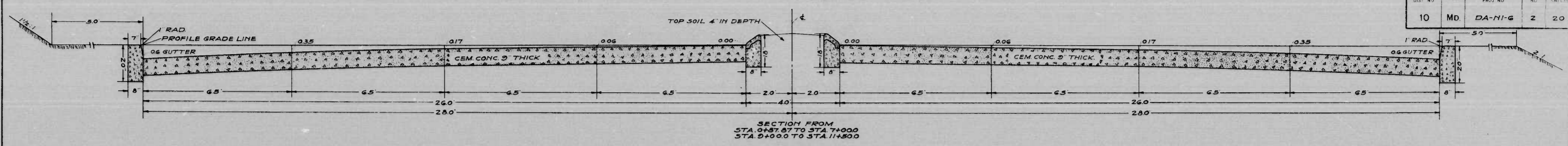
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WATERVIEW AVE.
ANNAPOLIS RD. TO HANOVER ST.
STANDARD DETAILS

DA-NI-6 Sheet 18 of 20

1179

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD	DA-NI-G	2	20



NOTE: Cement Concrete Footway (5.0' Wide) to be installed at locations as shown on plan. Top Soil (4" depth) to be placed in parked areas and at other locations as shown on plan. Between Sta. 31+50 to Sta. 35+50 & Sta. 45+25 to Sta. 52+00, on south side of Road, top of slope to be 10 Ft. 3 of SCL. to provide for drainage gutter.

DRAWER NO. [REDACTED]

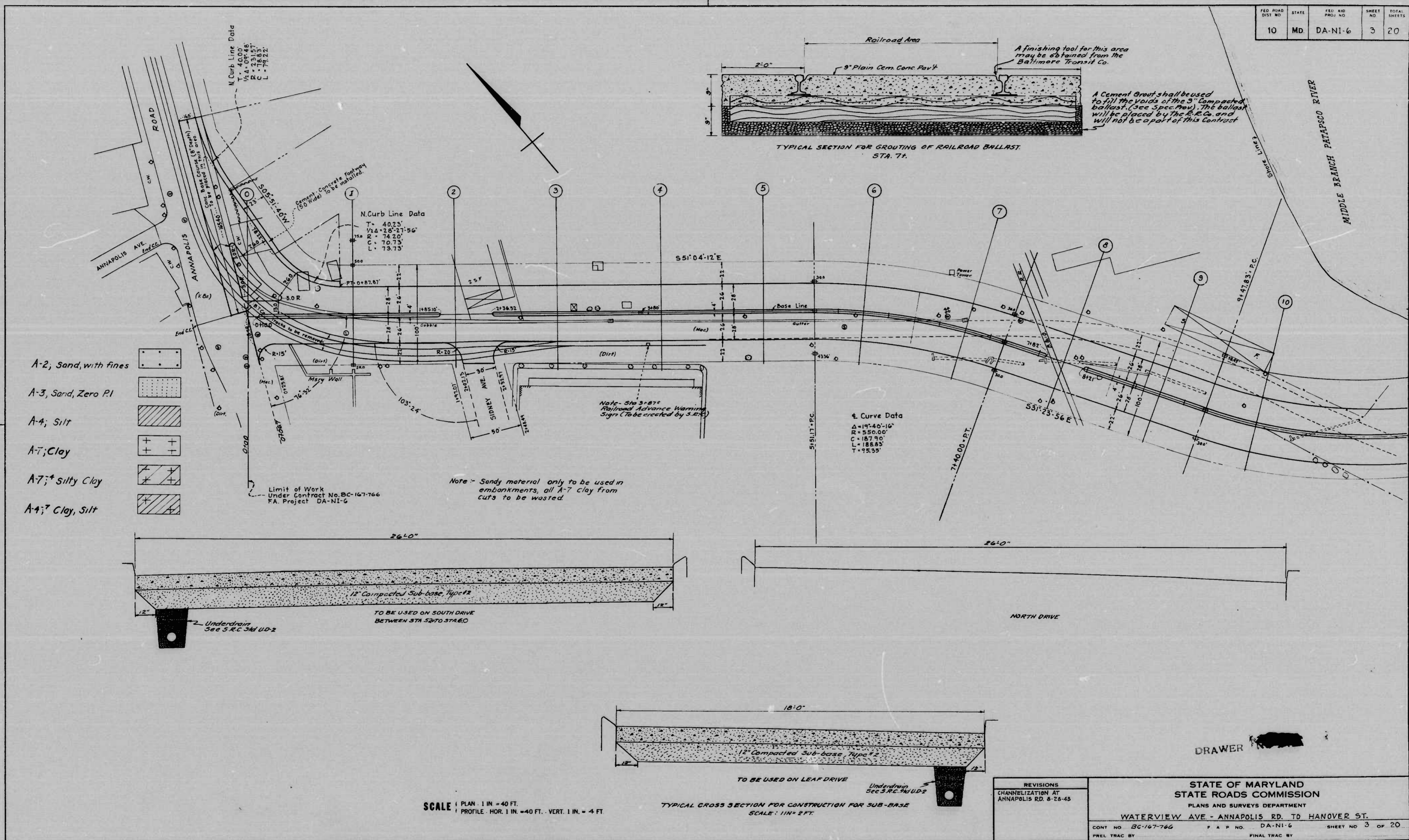
REVISIONS	SECTION 0+1+25 4-14-43
STATE OF MARYLAND STATE ROADS COMMISSION PLANS AND SURVEYS DEPARTMENT	
WATERVIEW AVE. - ANNAPOLIS RD. TO HANOVER ST.	
CONT. NO. 5C-167-766	F. A. R. NO. DA-NI-G SHEET NO. 2 OF 20
PREL. TRAC. BY	FINAL TRAC. BY

Scale - 1" = 2'-0"

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MICROFILMED ON APERTURE CARDS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	MD	DA-NI-6	3	20



MICROFILMED ON APERTURE CARDS

1173

