

COLUMBIA

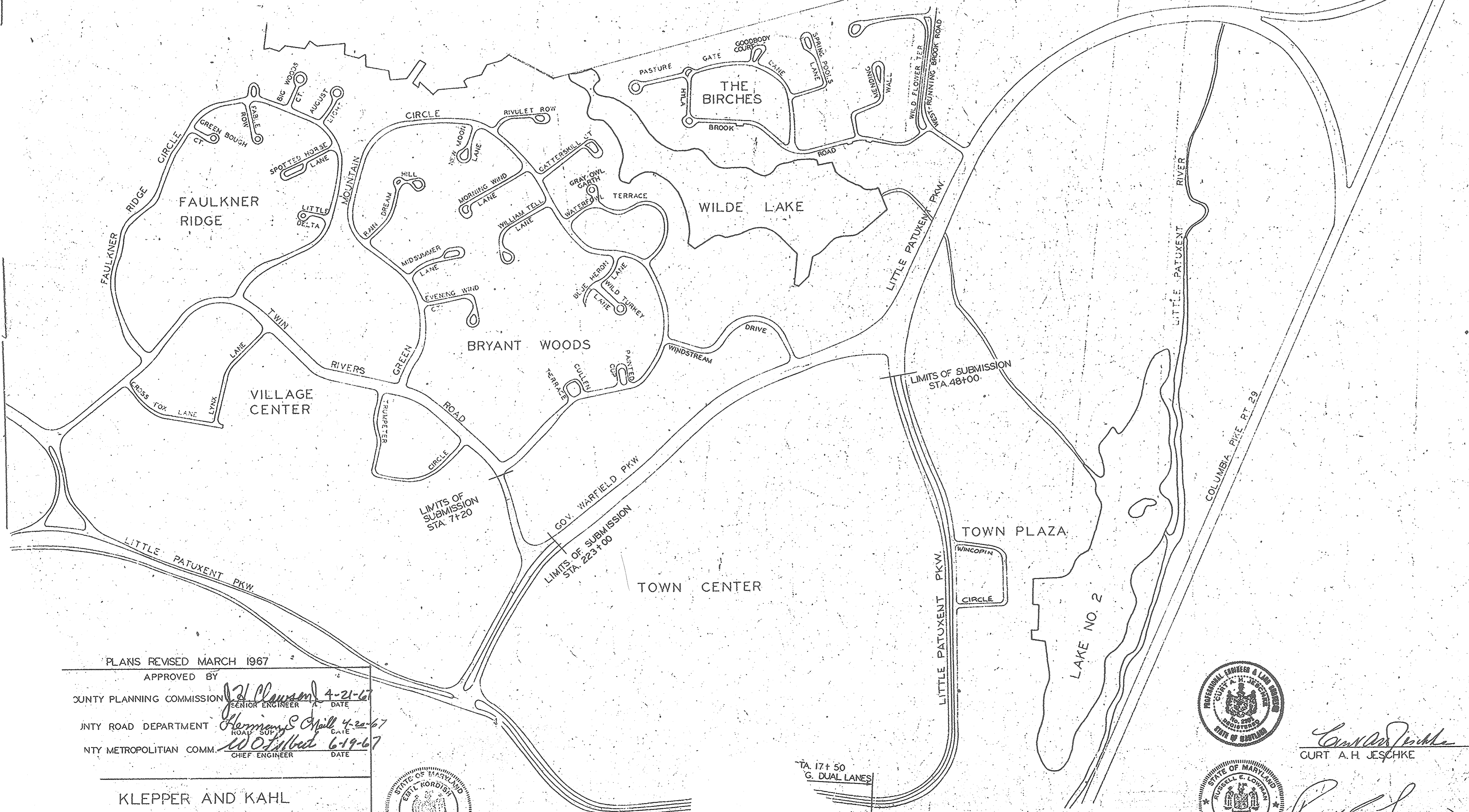
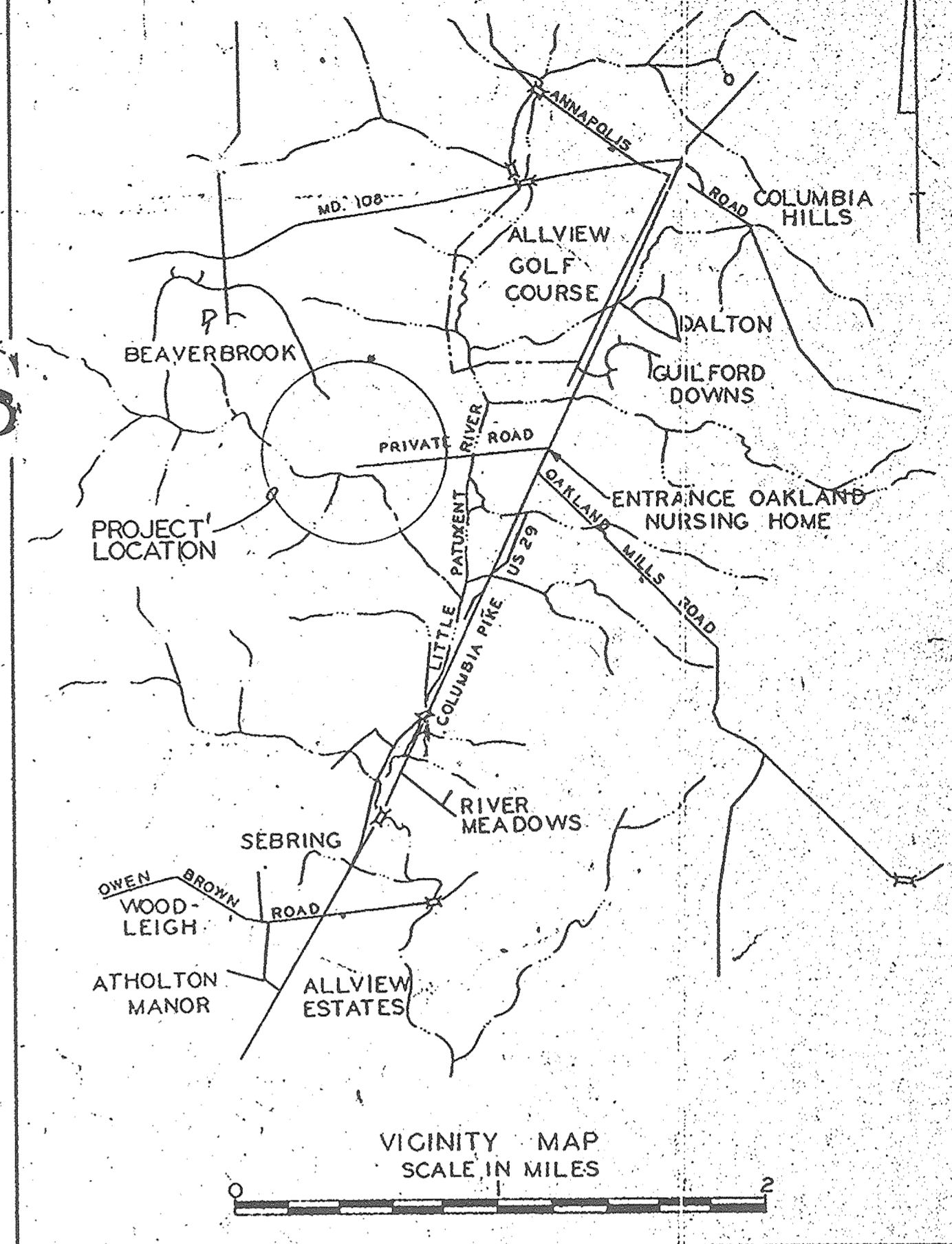
ELECTION DISTRICT 5

LITTLE PATUXENT & GOVERNOR WARFIELD PARKWAYS ROADWAYS - DRAINAGE

TOWN CENTER - SECTION I

HOWARD COUNTY, MARYLAND

SEPTEMBER 1966



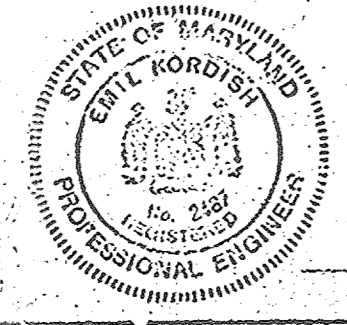
INDEX		
DESCRIPTION	STREET NAME	SHEET NOS.
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	WINCOPIN CIRCLE	18
	TWIN RIVERS ROAD	19, 20
DRAINAGE		21 TO 29

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1967

HOWARD RESEARCH AND DEVELOPMENT CORP.
VILLAGE OF CROSS KEYS BALTIMORE, MARYLAND 21210

PLANS REVISED MARCH 1967
APPROVED BY
COUNTY PLANNING COMMISSION
COUNTY ROAD DEPARTMENT
COUNTY METROPOLITAN COMM.

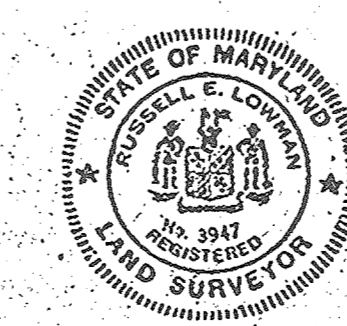
KLEPPER AND KAHL
ENGINEERS
LAND SURVEYORS
ID 21 TO 28



EMIL KORDISH RE. 2487 DATE 3-19-67



GURT A. H. JESCHKE DATE 3-14-67

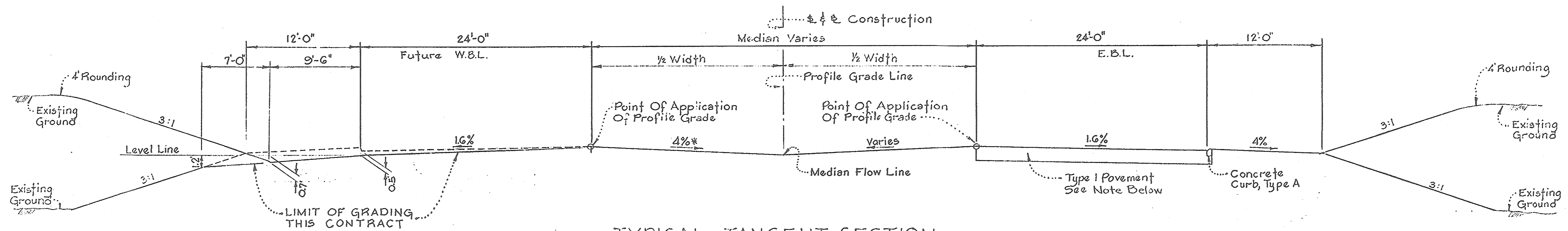


RUSSELL E. LOWMAN L.S. 3947 DATE 3-13-67

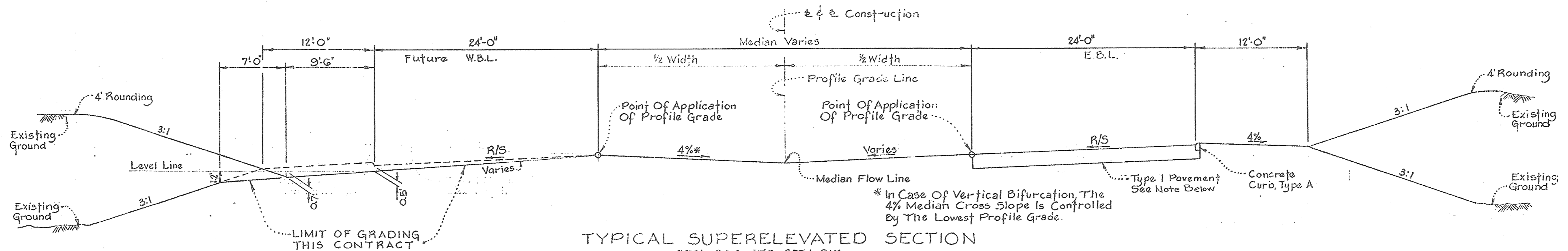
PURDUM & JESCHKE
ENGINEERS AND LAND SURVEYORS
24 PARK AVENUE ELLICOTT CITY, MD.
SHEETS 18 & 29

C. D. MESSICK JR. & ASSOCIATES INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
21 WEST STREET ANNAPOLIS, MD.
SHEETS 19 & 20

Note: 2" Topsoil, Seed (Art. 36.04) & Mulch (Art. 36.05) To Be Placed On All Median Areas, Construction Slopes & Ditches, Unless Otherwise Noted On The Plans.



TYPICAL TANGENT SECTION
STA. 200+ TO STA. 215+



TYPICAL SUPERELEVATED SECTION
STA. 200+ TO STA. 215+

Note: Type I Pavement
7" Crusher Run Subbase
4" Bituminous Concrete Base Course
2 1/2" Bituminous Concrete Binder Course
2- 1 1/2" Bituminous Concrete Surface Courses
This surface type to be constructed in accordance with the Howard County Road Construction Code and specification Dwg. D-112, Page 165 b

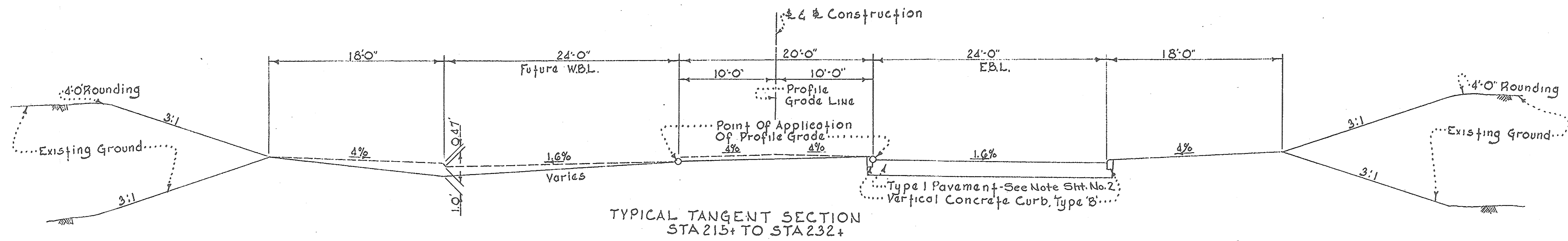
APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: 9/22/66

Added Pav't (E.B.L.), Deleted Pav't (W.B.L.)	10/19/66
Curb Type	9/22/66
LITTLE PATUXENT PARKWAY TYPICAL SECTION	
	9/30/66

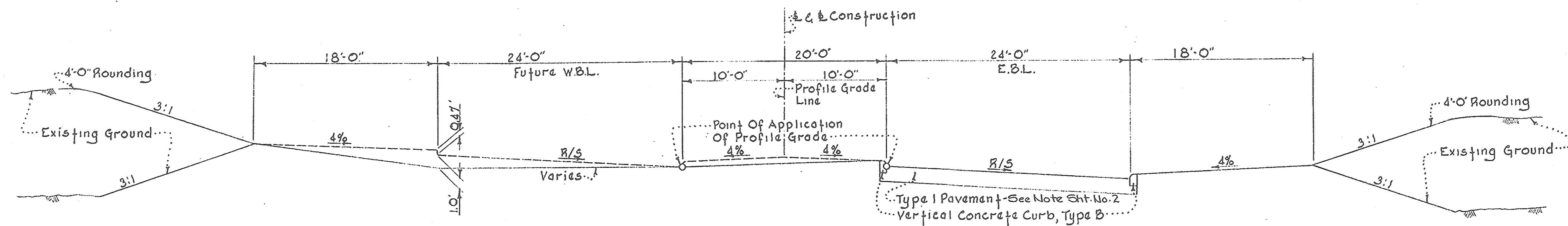
LITTLE PATUXENT PARKWAY

NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
SCOTT SHANABERGER
PROFESSIONAL ENGINEER
EXPIRES 12/31/2018
6-16-2018

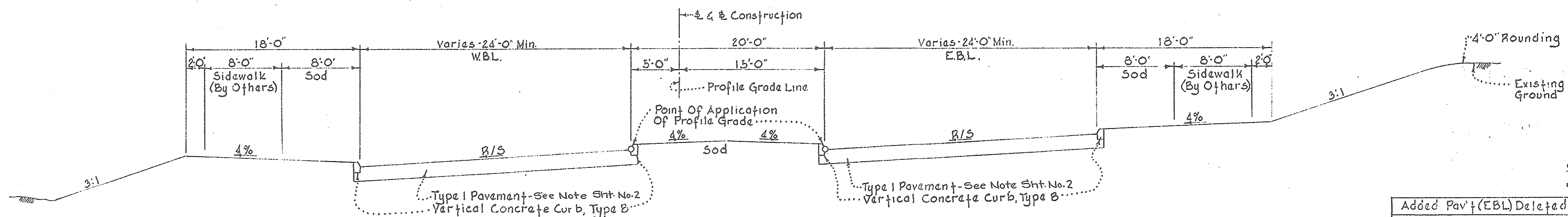
Note 2" Topsoil Seed (Art 36.04) & Mulch (Art 36.05) To Be Placed On All Median Areas, Construction Slopes & Ditches, Unless Otherwise Noted On The Plans



TYPICAL TANGENT SECTION
STA 215+ TO STA 232+



TYPICAL SUPERELEVATED SECTION
STA 215+ TO STA 232+
STA 13+



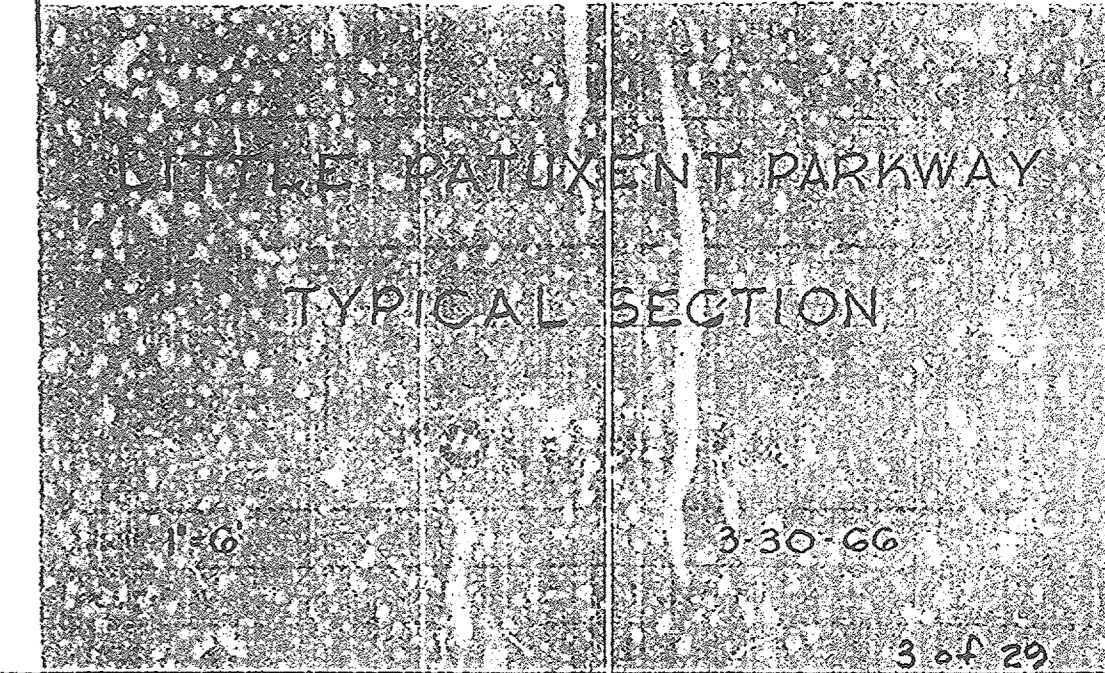
TYPICAL SUPERELEVATED SECTION
STA 13+ TO STA 22+

LITTLE PATUXENT PARKWAY

APPROVED
PLANNING COMMISSION
OF ARROWHEAD COUNTY

DATE: 3/22/06

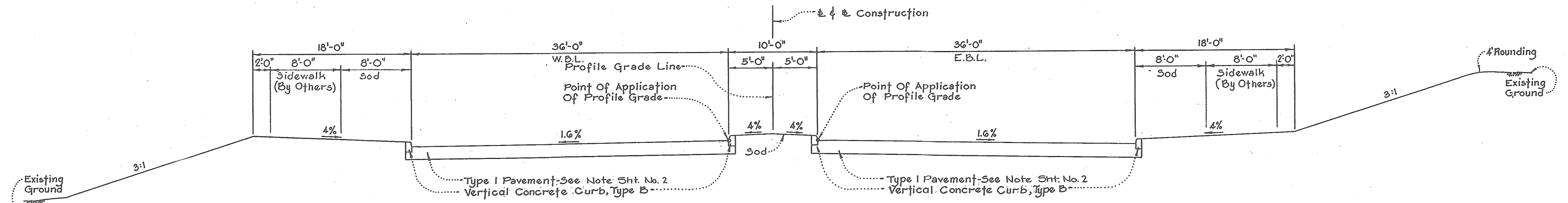
Added Pav't (EBL) Deleted Pav't (WBL) 10/12/06
Curb Type 9/22/06



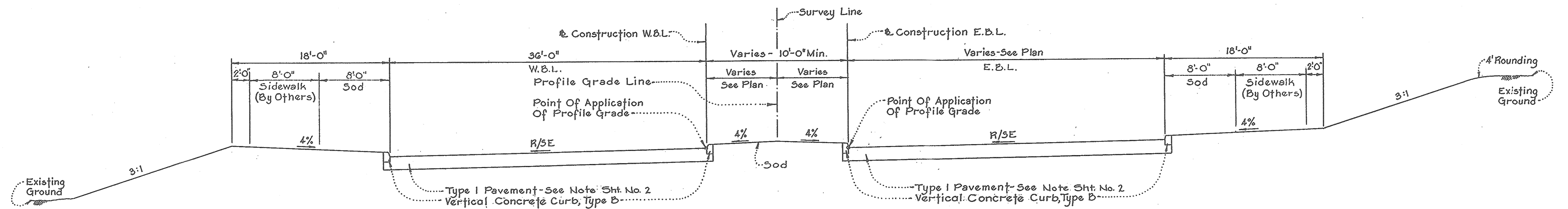
NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
SCOTT BRANHAM
MANAGER, 657 S. LANE
PROFESSIONAL L.S. #10848 Exp. Date 4/22/08
AS-BUILT DATE: 6-10-2018

3-30-06
3-4-09

Note: 2" Topsoil, Seed (Art. 36.04) & Mulch (Art. 36.05) To Be Placed On All Median Areas, Construction Slopes & Ditches, Unless Otherwise Noted On The Plans.



STA. 22+ TO STA. 30+
TYPICAL TANGENT SECTION



STA. 30+ TO STA. 41+
TYPICAL SUPERELEVATED SECTION

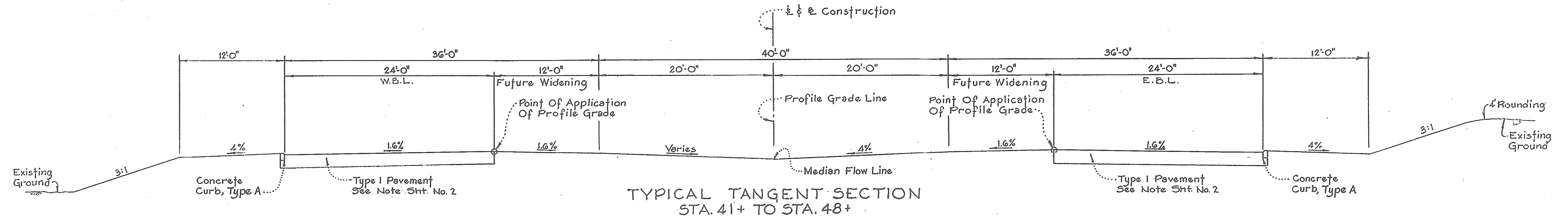
LITTLE PATUXENT PARKWAY

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1967
[Signature]

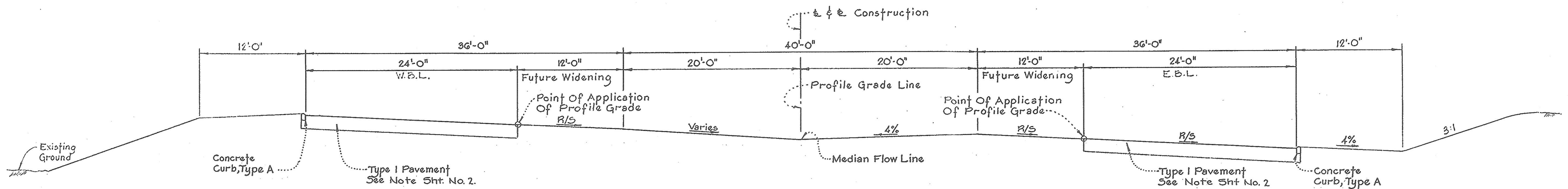
Curb Type	9/22/66
LITTLE PATUXENT PARKWAY	
TYPICAL SECTION	
3/30/66	
4/6/67	

NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
[Signature]
SCOTT S. MAGERER
SHAPE: PR & LANC
Professional L.C. #10642 Exp. Date: 12/31/20
AS-BUILT DATE: 6-10-2018

Note: 2" Topsoil, Seed (Art. 36.04) & Mulch (Art. 36.05) To Be Placed On All Median Areas, Construction Slopes & Ditches, Unless Otherwise Noted On The Plans.



TYPICAL TANGENT SECTION
STA. 41+ TO STA. 48+

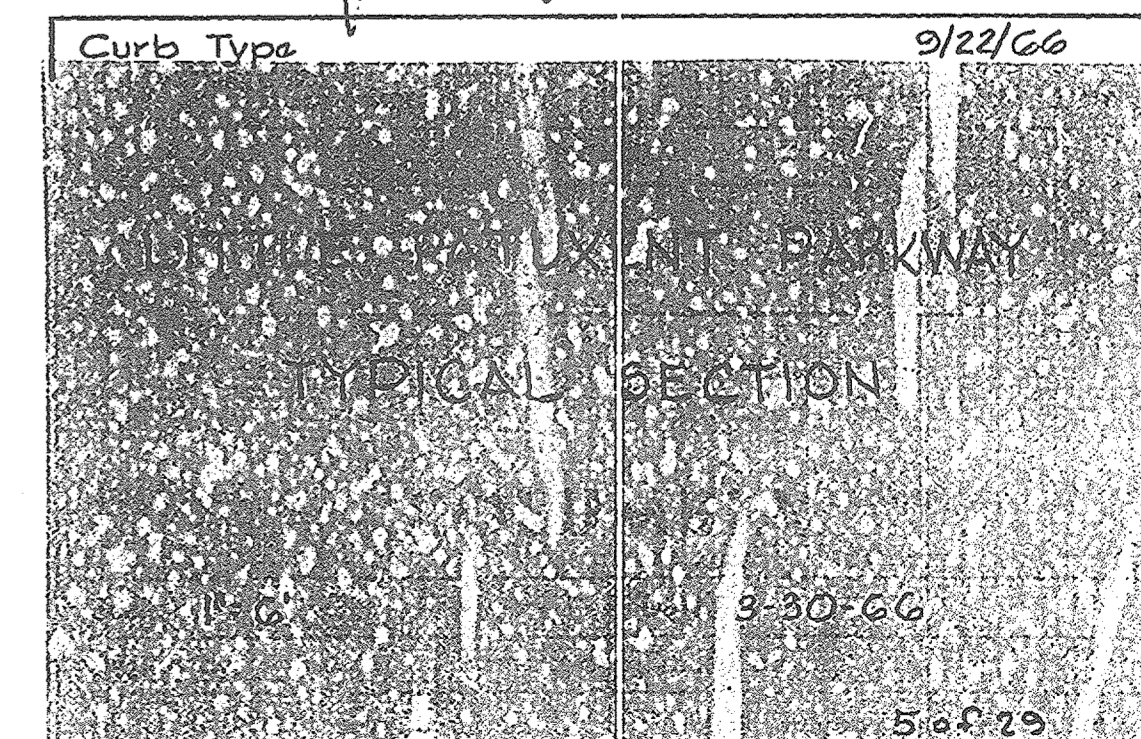


TYPICAL SUPERELEVATED SECTION
STA. 41+ TO STA. 48+

LITTLE PATUXENT PARKWAY

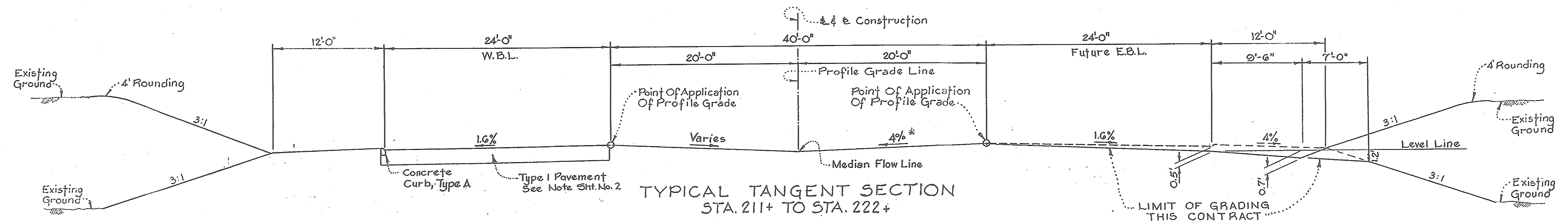
APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE APR 21 1967

[Signature]

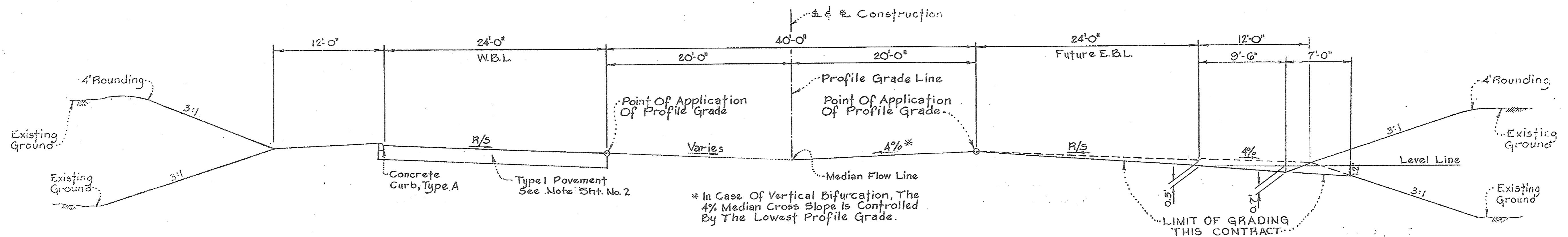


NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET.
[Signature]
G. SCOTT SHANAGER
SHANAGER & ASSOCIATES
Professional Seal #10948 Exp. 12/31/72
AS-BUILT DATE: 6-10-2018

Note: 2" Topsoil, Seed (Art. 36.04) & Mulch (Art. 36.05) To Be Placed On All Median Areas, Construction Slopes & Ditches, Unless Otherwise Noted On The Plans.

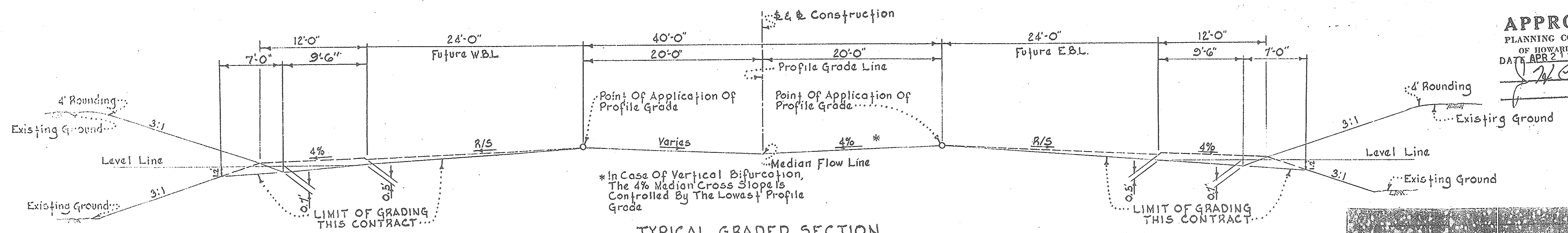


TYPICAL TANGENT SECTION
STA. 211+ TO STA. 222+



TYPICAL SUPERELEVATED SECTION
STA. 211+ TO STA. 222+

* In Case Of Vertical Bifurcation, The 4% Median Cross Slope Is Controlled By The Lowest Profile Grade.



TYPICAL GRADED SECTION
STA. 222+ TO STA. 246+

* In Case Of Vertical Bifurcation, The 4% Median Cross Slope Is Controlled By The Lowest Profile Grade.

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE APR 21 1967

[Signature]

GOV. WARFIELD PARKWAY

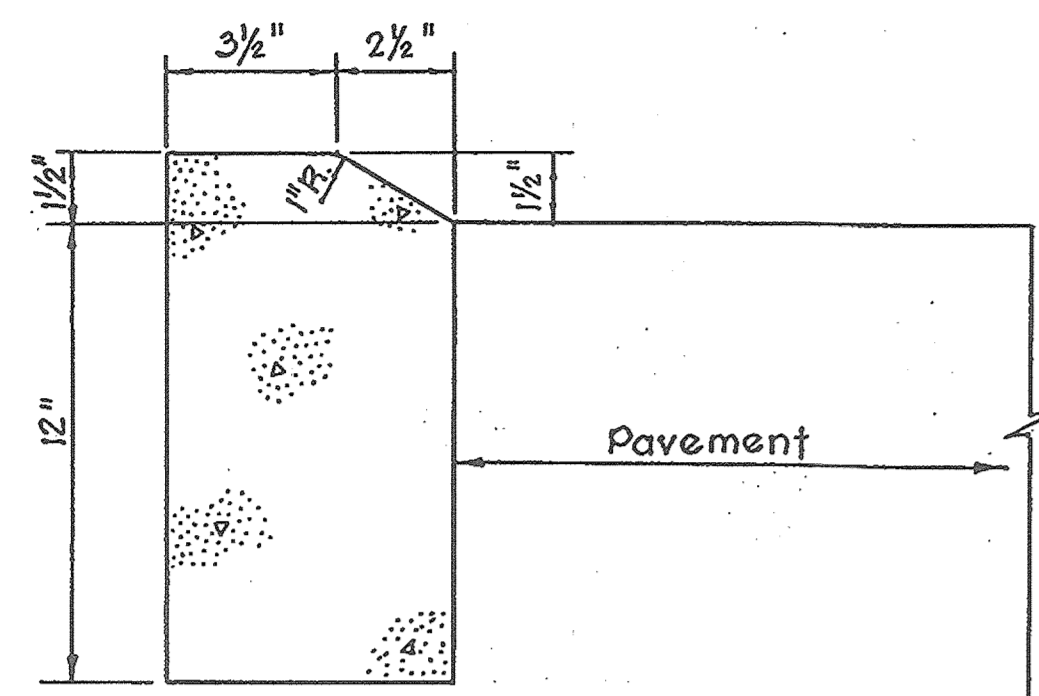
NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
[Signature]
G. SCOTT SHANBERGER
SHANBERGER & ASSOCIATES
PROFESSIONAL LAND SURVEYORS
AS-BUILT DATE: 4-10-2018

Added Typical Section Sta. 222+ to 246+				10/28/66
Curb Type				9/22/66
Description	By	Mark	Date	
REVISIONS				

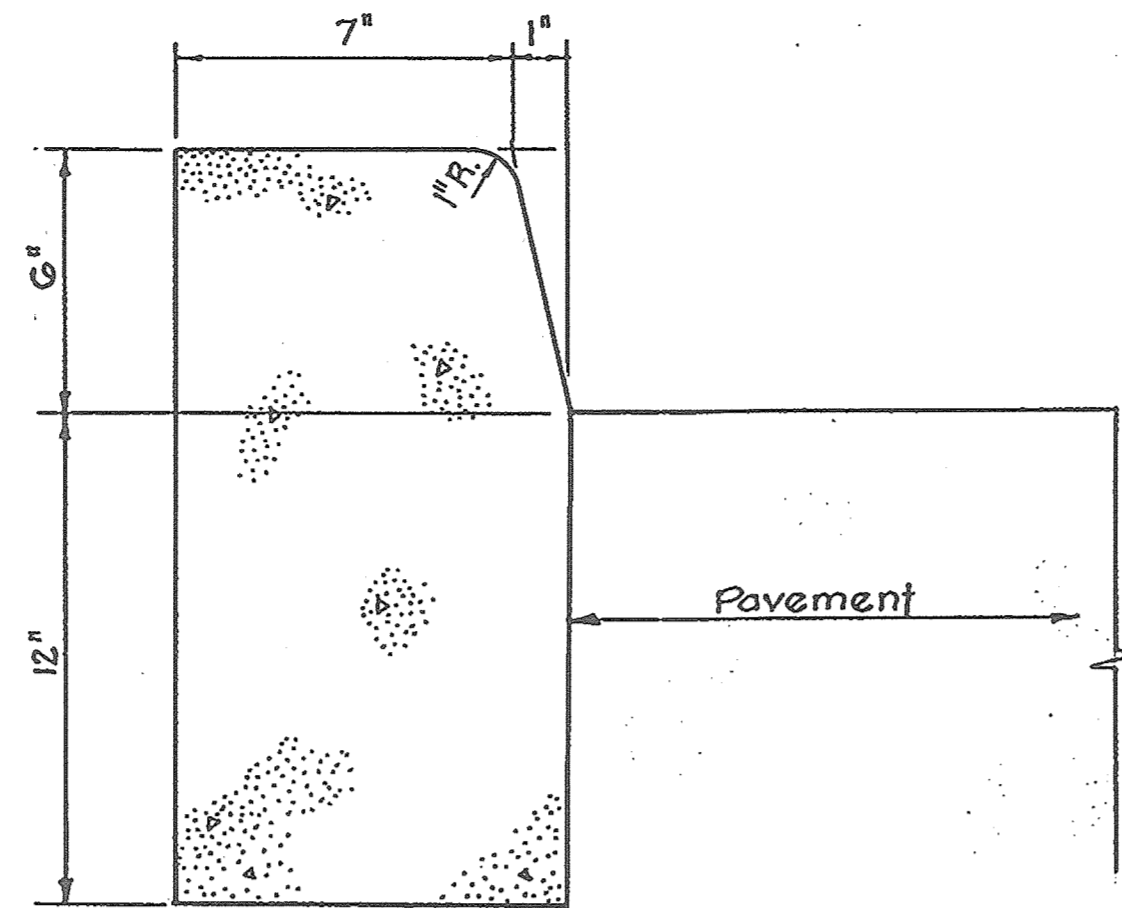
GOV. WARFIELD PARKWAY
TYPICAL SECTION

3-30-66

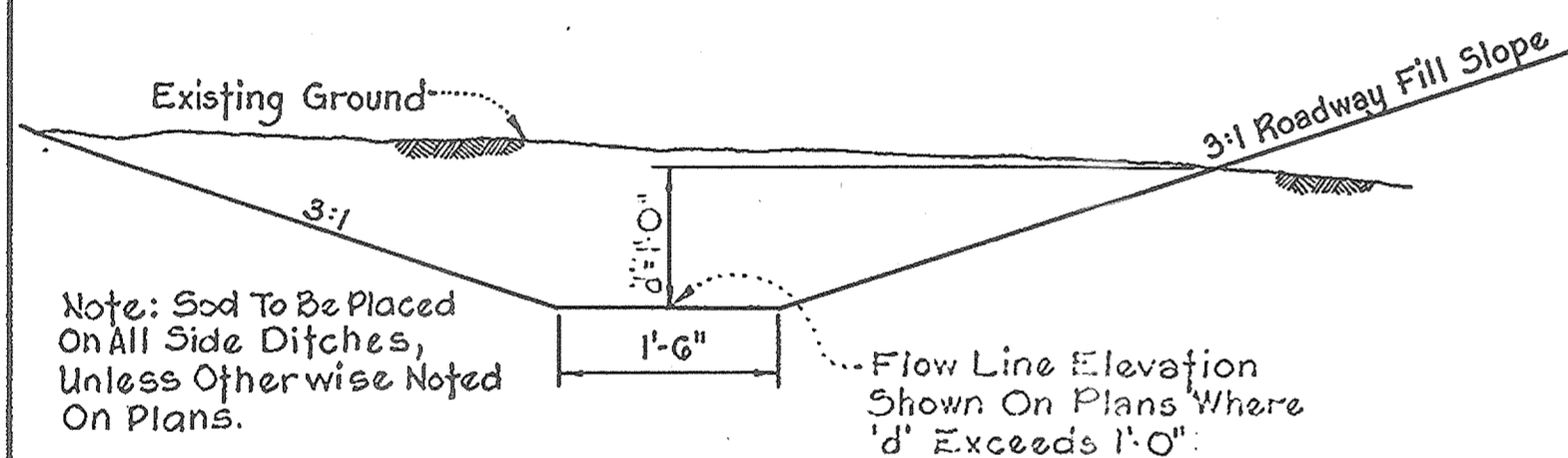
166-29



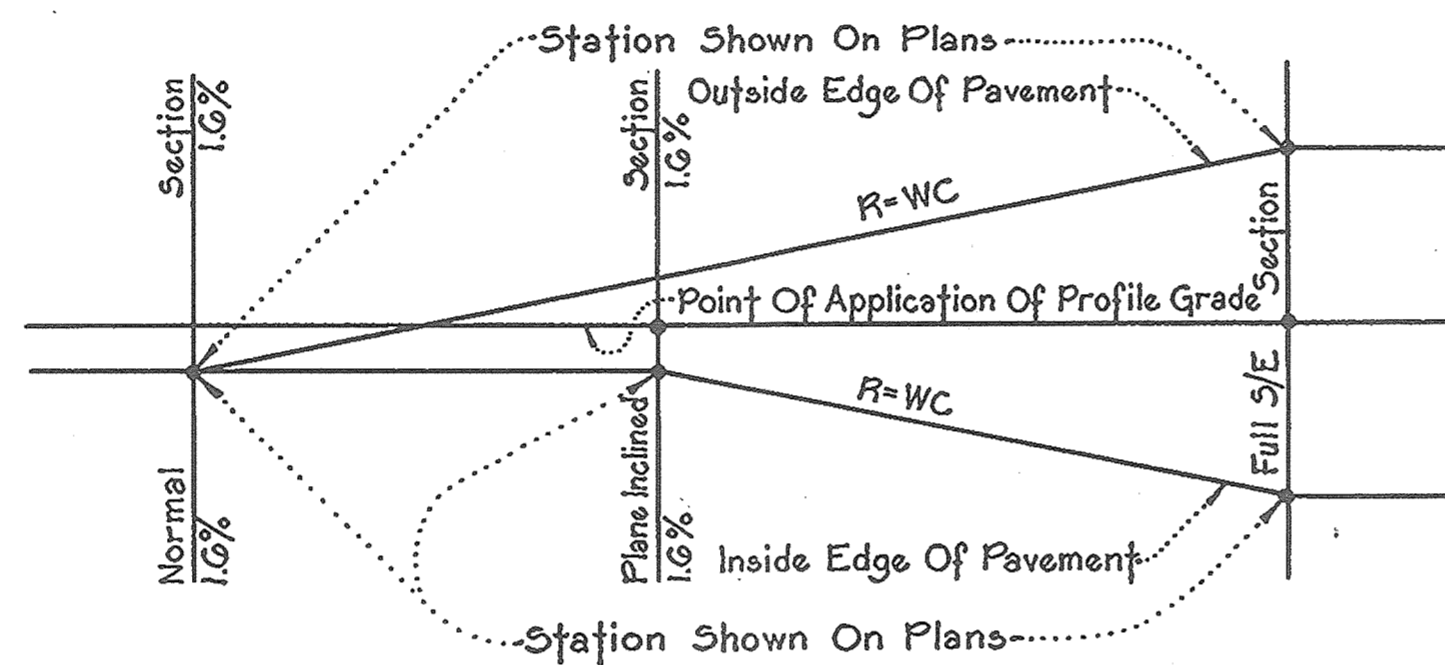
**DETAIL
CONCRETE CURB - TYPE A**
Scale: 3" = 1'-0"



**DETAIL
VERTICAL CONCRETE CURB
TYPE B**
Scale: 3" = 1'-0"

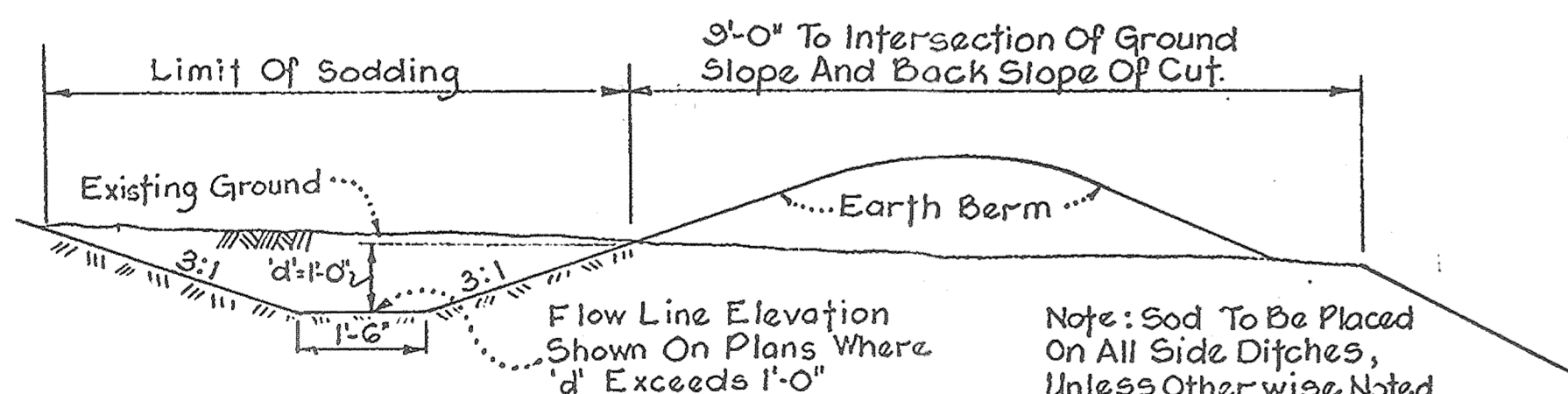


**DETAIL
SIDE DITCH**
Scale: 3/4" = 1'-0"

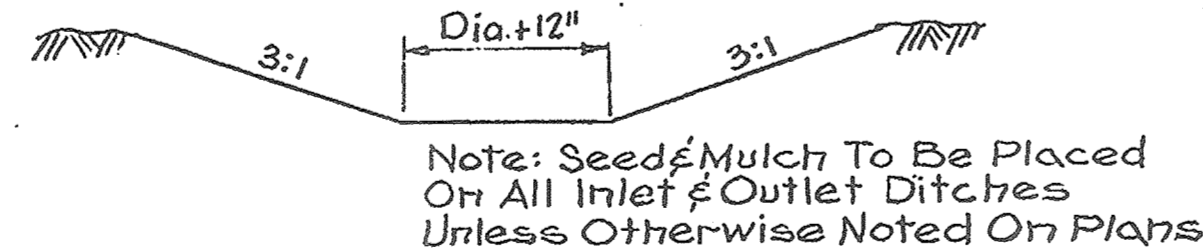


W: Width Of Pavement.
R: Rate Of Change Of A Given Point On The Pavement With Respect To The Point Of Application Of Profile Grade.
C: 0.0002 ft. per ft. Except For The Transitions Between Station 28+95 And Station 43+21.67, Which Are 0.00015 ft. per ft.

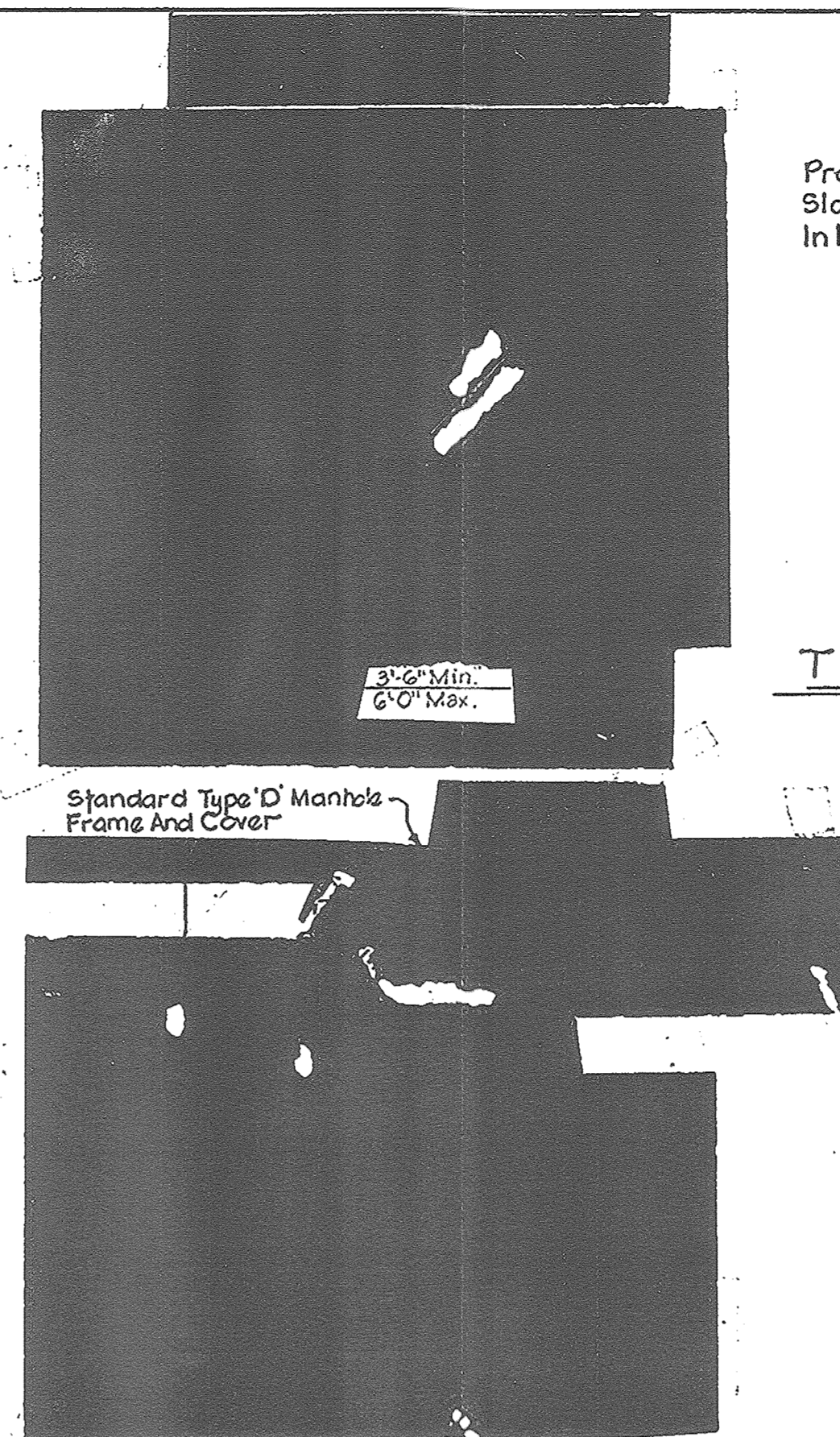
**DETAIL
SUPERELEVATION TRANSITION**



**DETAIL
BERM DITCH**

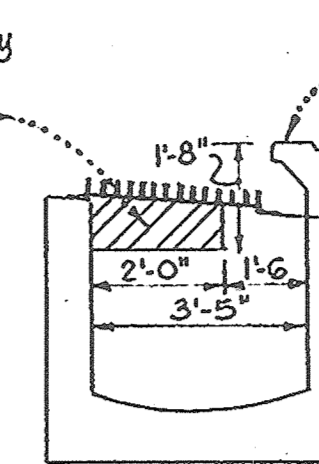


**TYPICAL CHANNEL
CONSTRUCTION
(INLET AND OUTLET DITCHES)**



**DETAIL
TYPE 'C' MANHOLE**

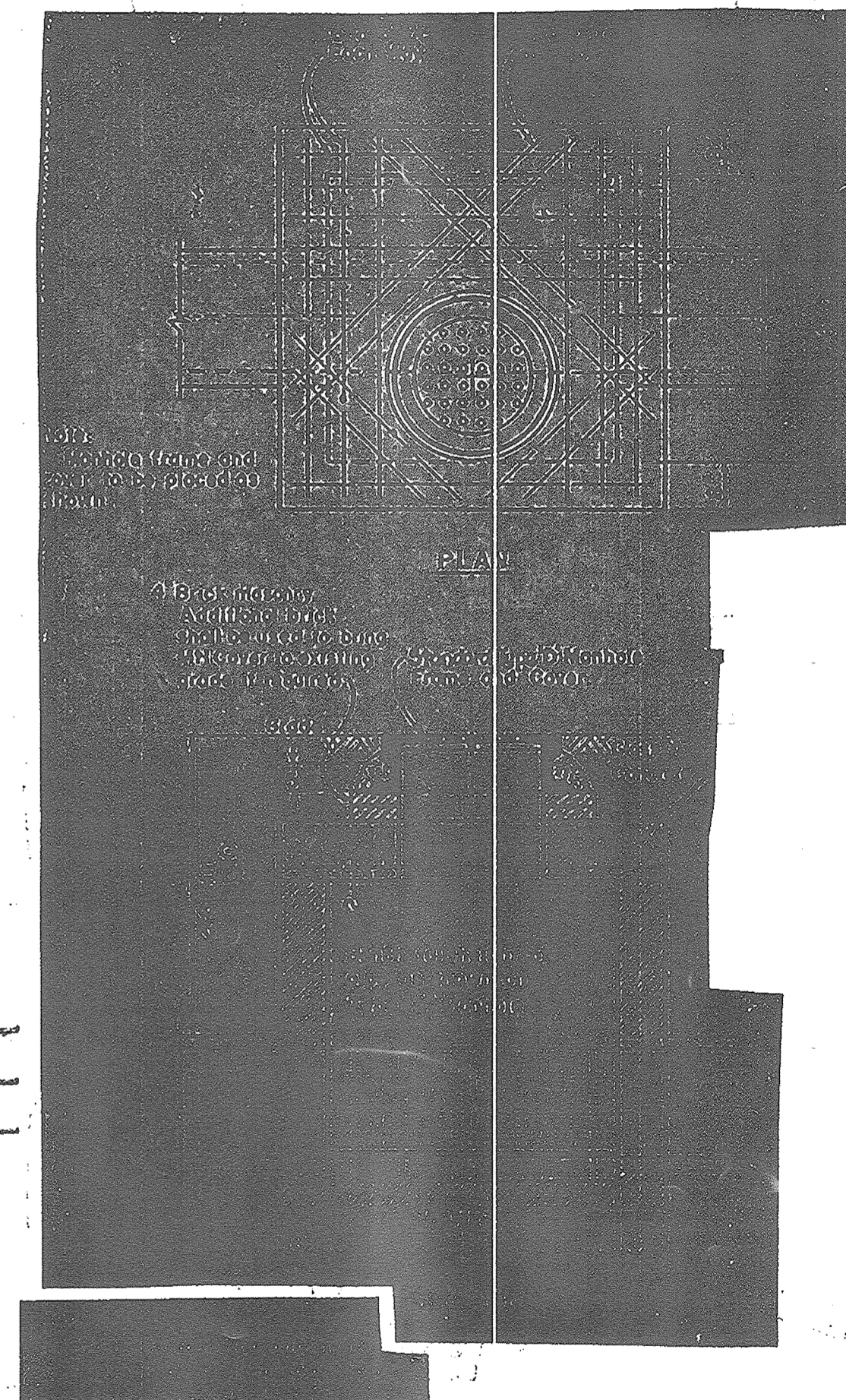
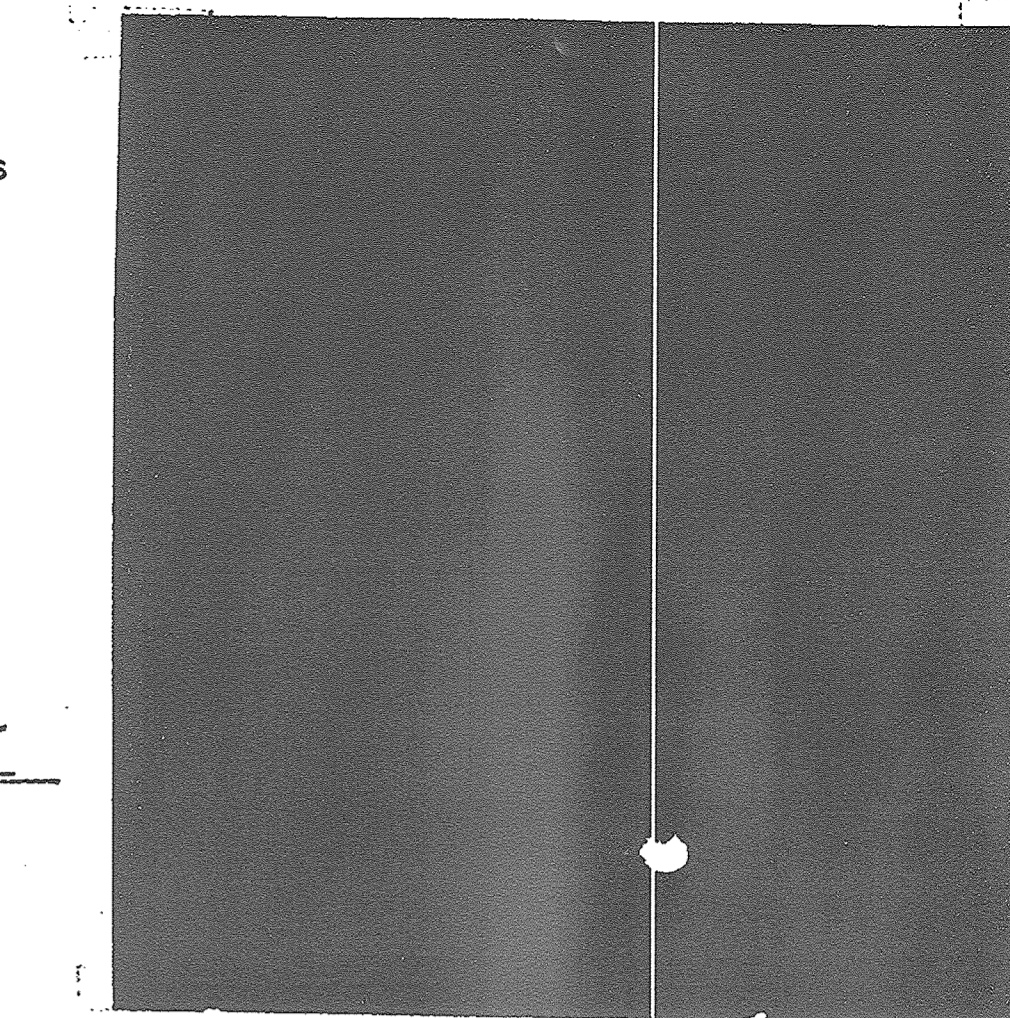
Provide Temporary Slope In End Of 'S'-Inlet As Shown



**TEMPORARY DRAINAGE SLOT
'S'-INLETS**
Note: To Be Constructed Where Noted On Plans

NOTE: FOR M.H. COVER & FRAME.
HOWARD COUNTY STANDARDS.
DRAWING D-106

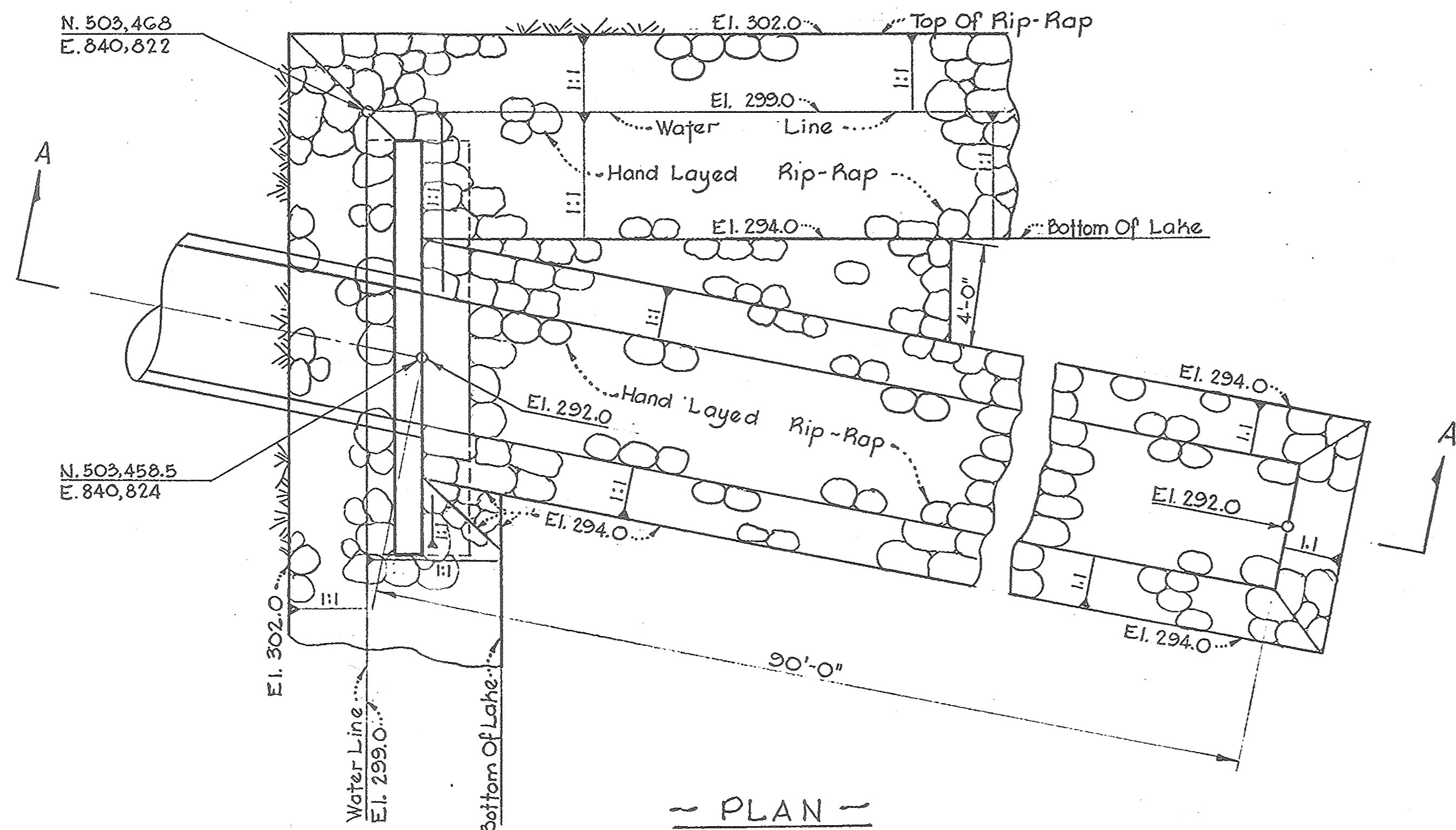
APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 4/17/66



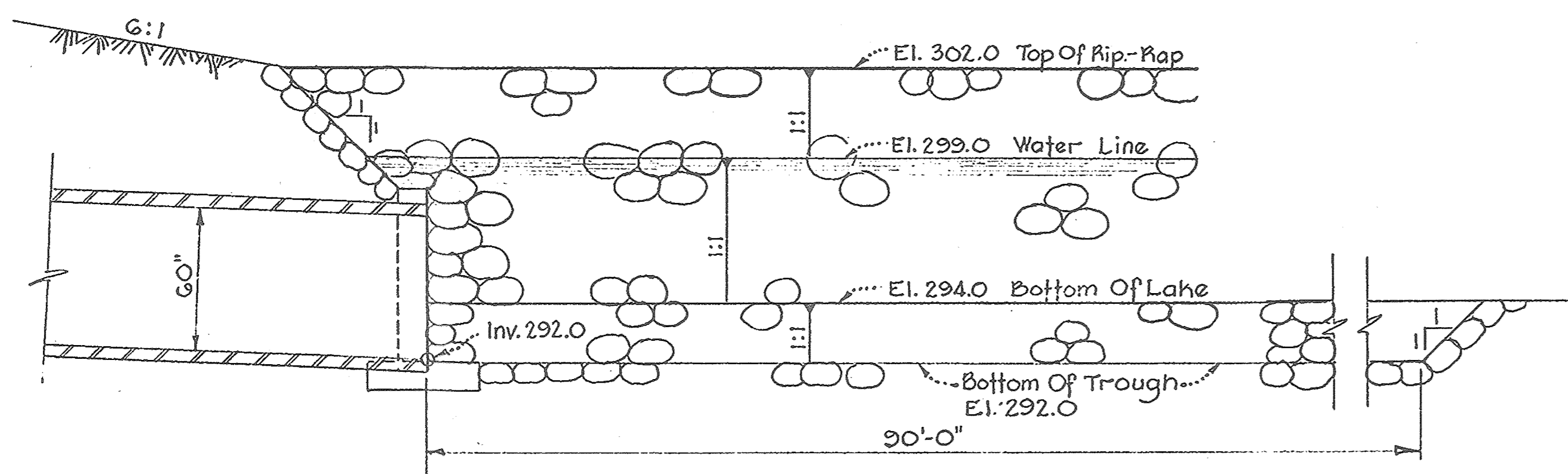
**DETAIL
TYPE 'B' MANHOLE**

Manhole & Curb Type	0/22/66
DETAIL SHEET	
	April 18, 1966
	R.L.J.
	7-27-66

NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
Opell Landscaping
35007 SHANNING
LAWRENCEVILLE, GA
Professional Seal: 4-10-2018



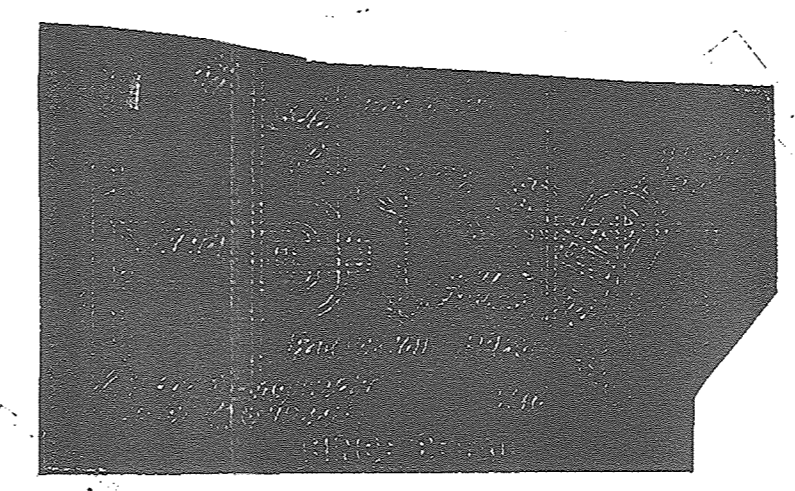
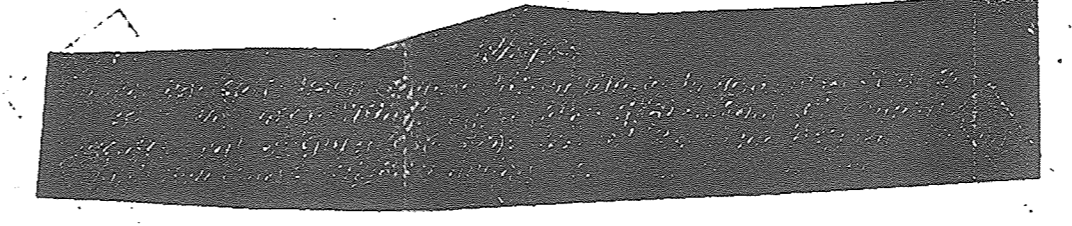
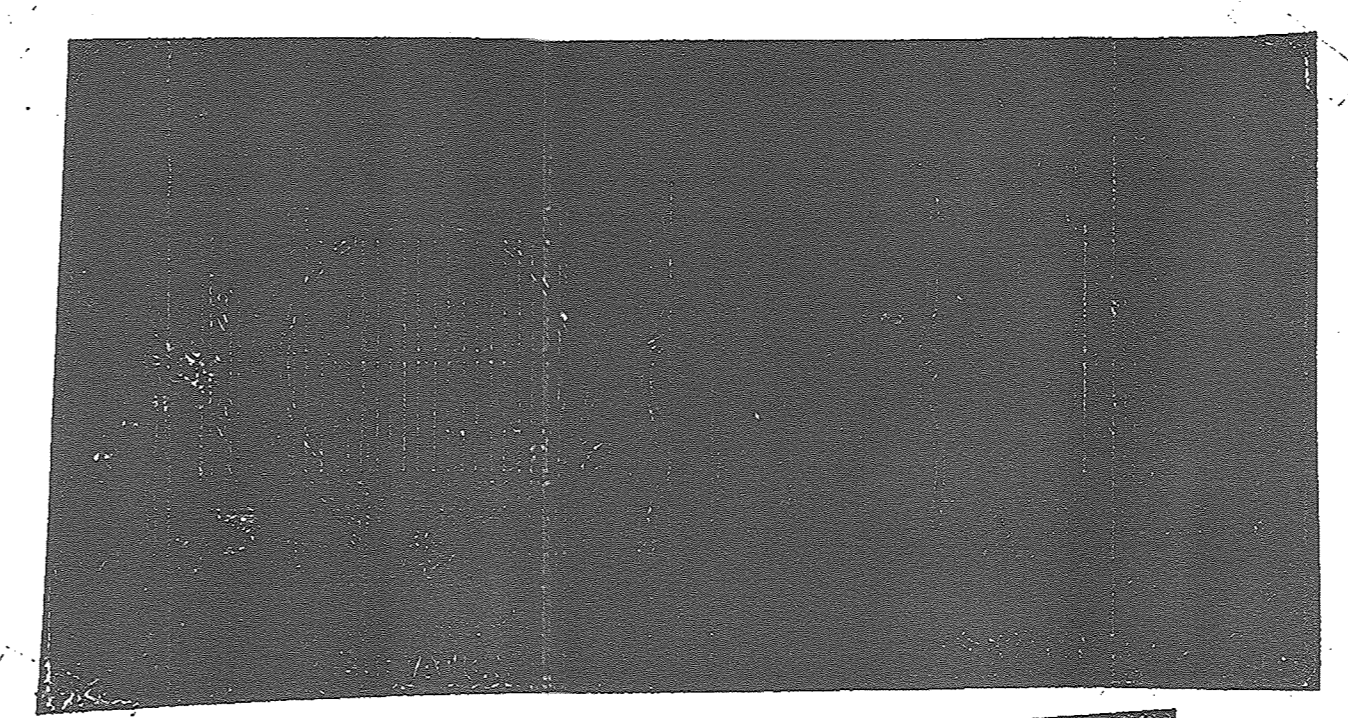
~ PLAN ~



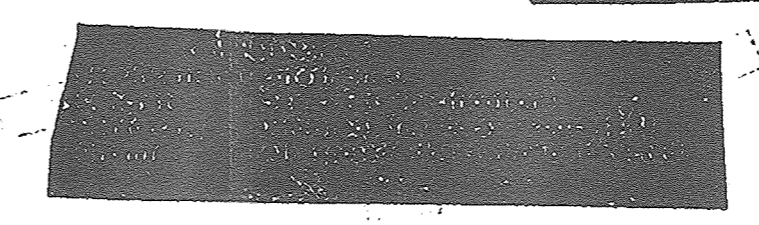
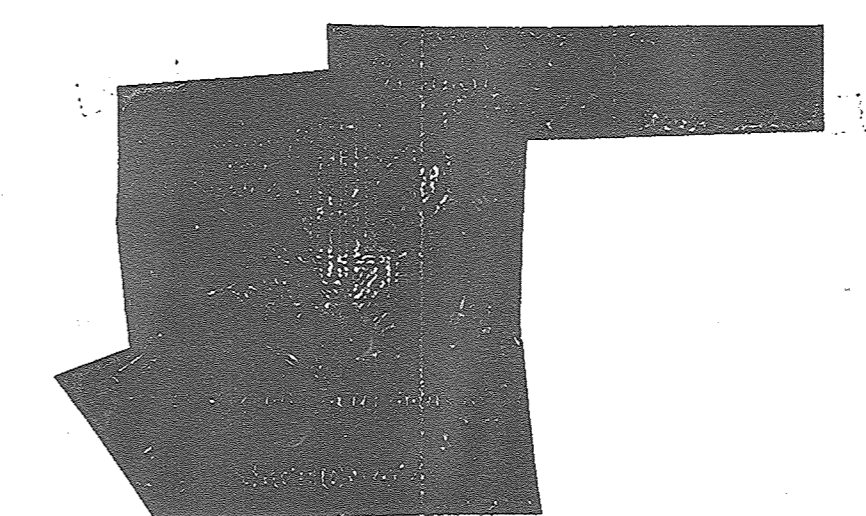
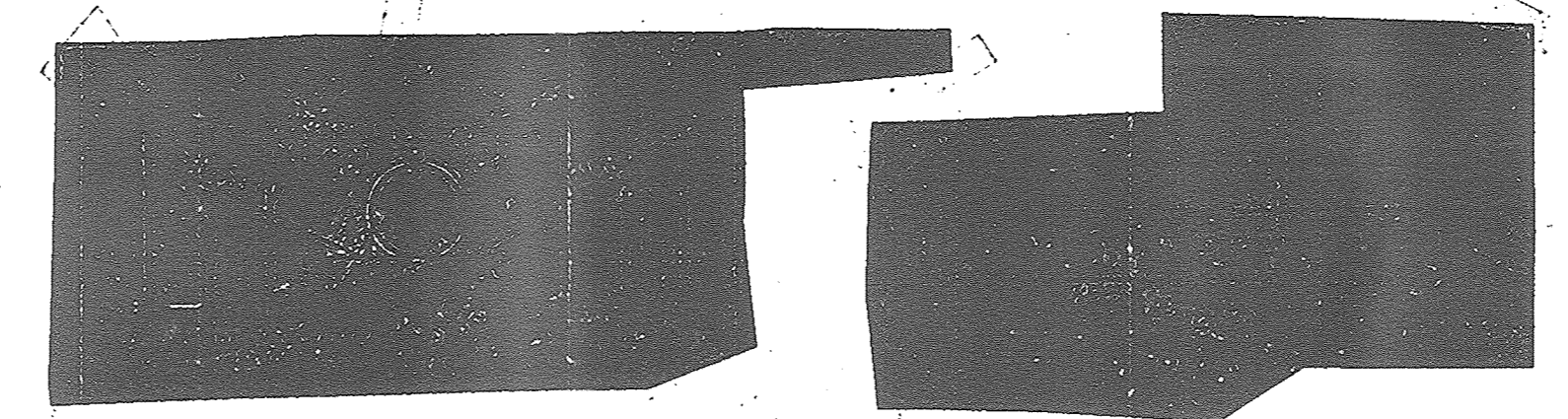
~ SECTION 'A-A' ~

~ DETAIL - OUTLET PROTECTION ~

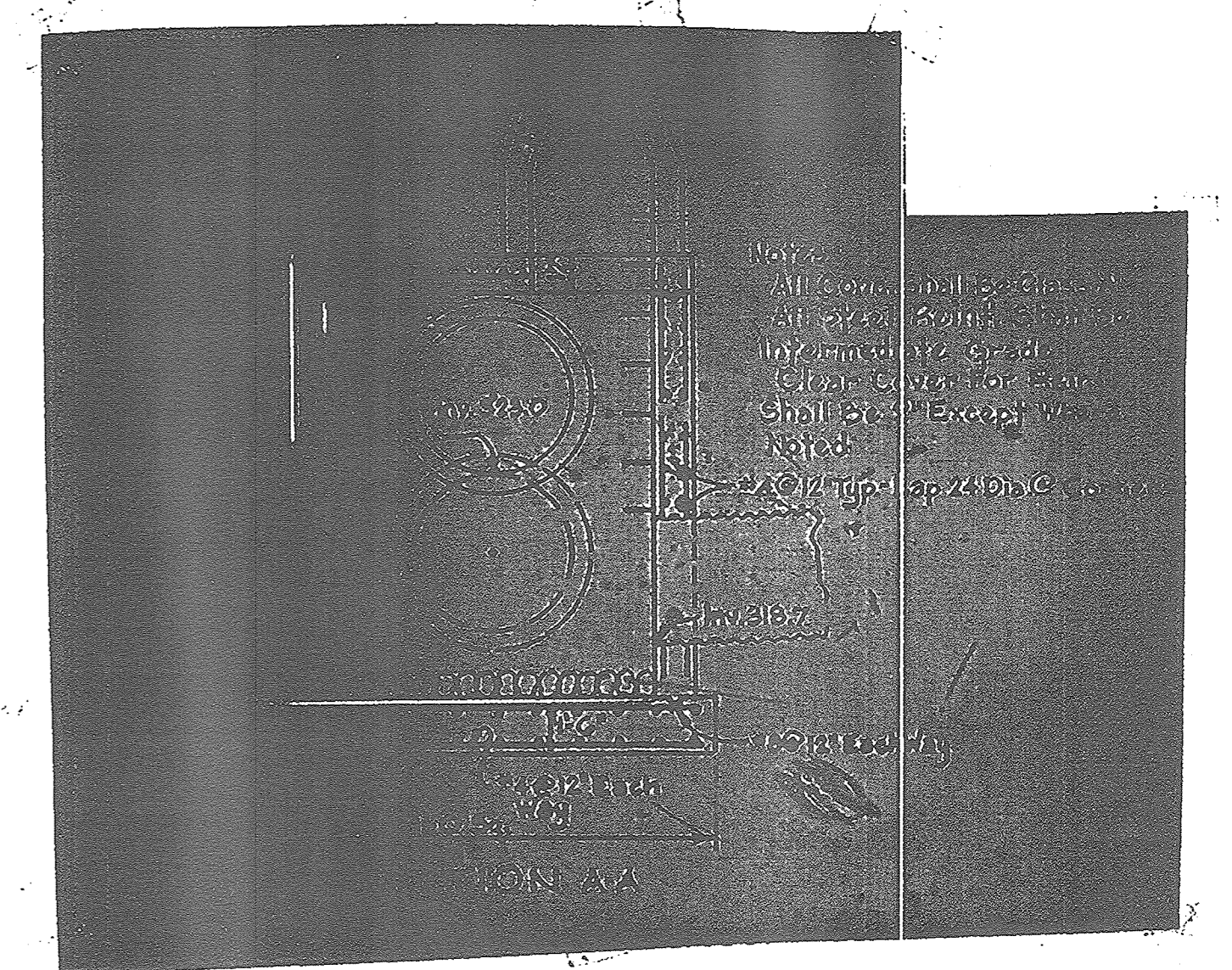
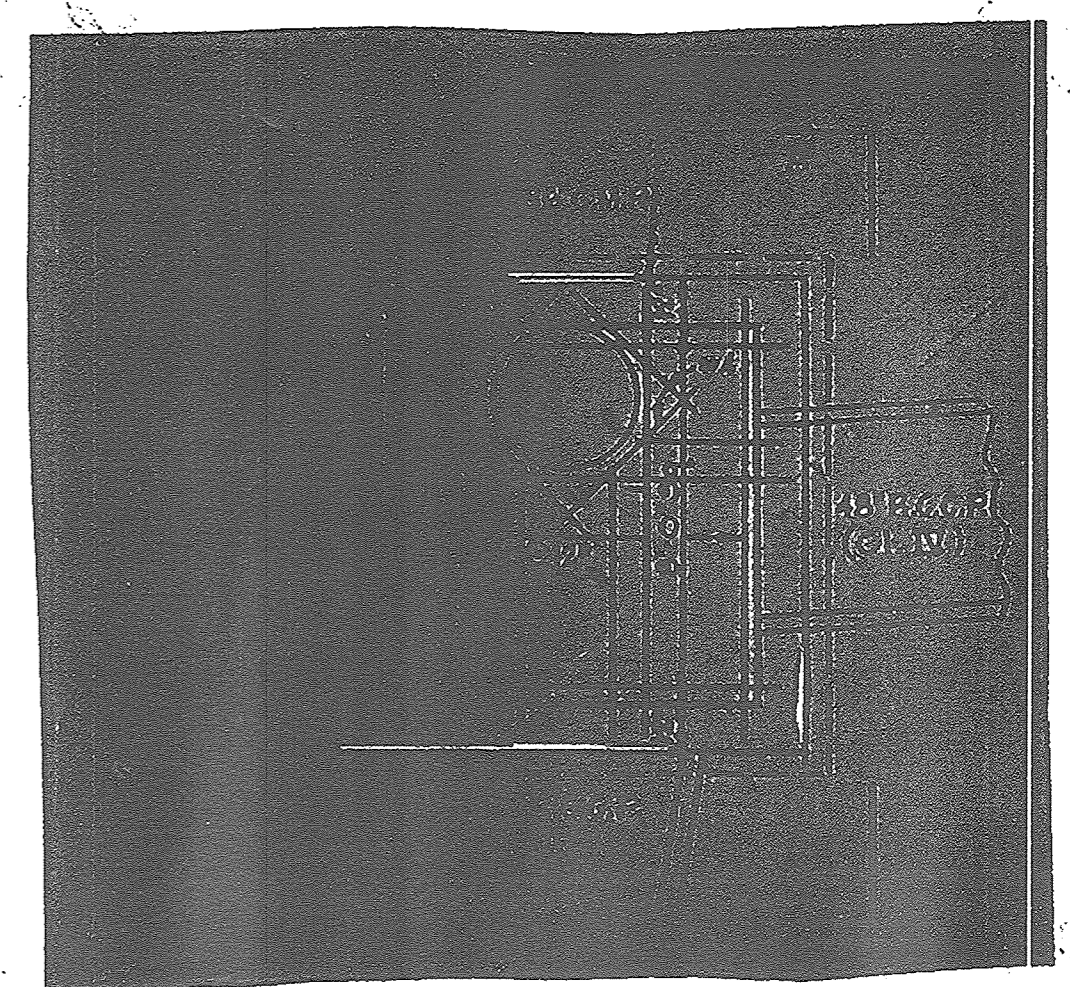
Scale: 1"=4'-0"



~ BAR GATE DETAIL FOR 60" CIRCULAR PIPE ~



~ MODIFIED TYPE 'C' ENDWALL ~



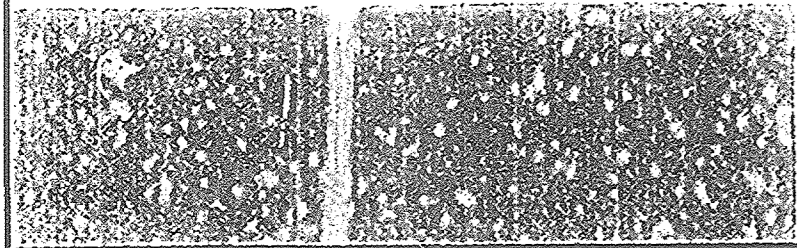
~ SPECIAL 8'x8' REINF. CONC. DROP MANHOLE ~
I.T. STA. 33+

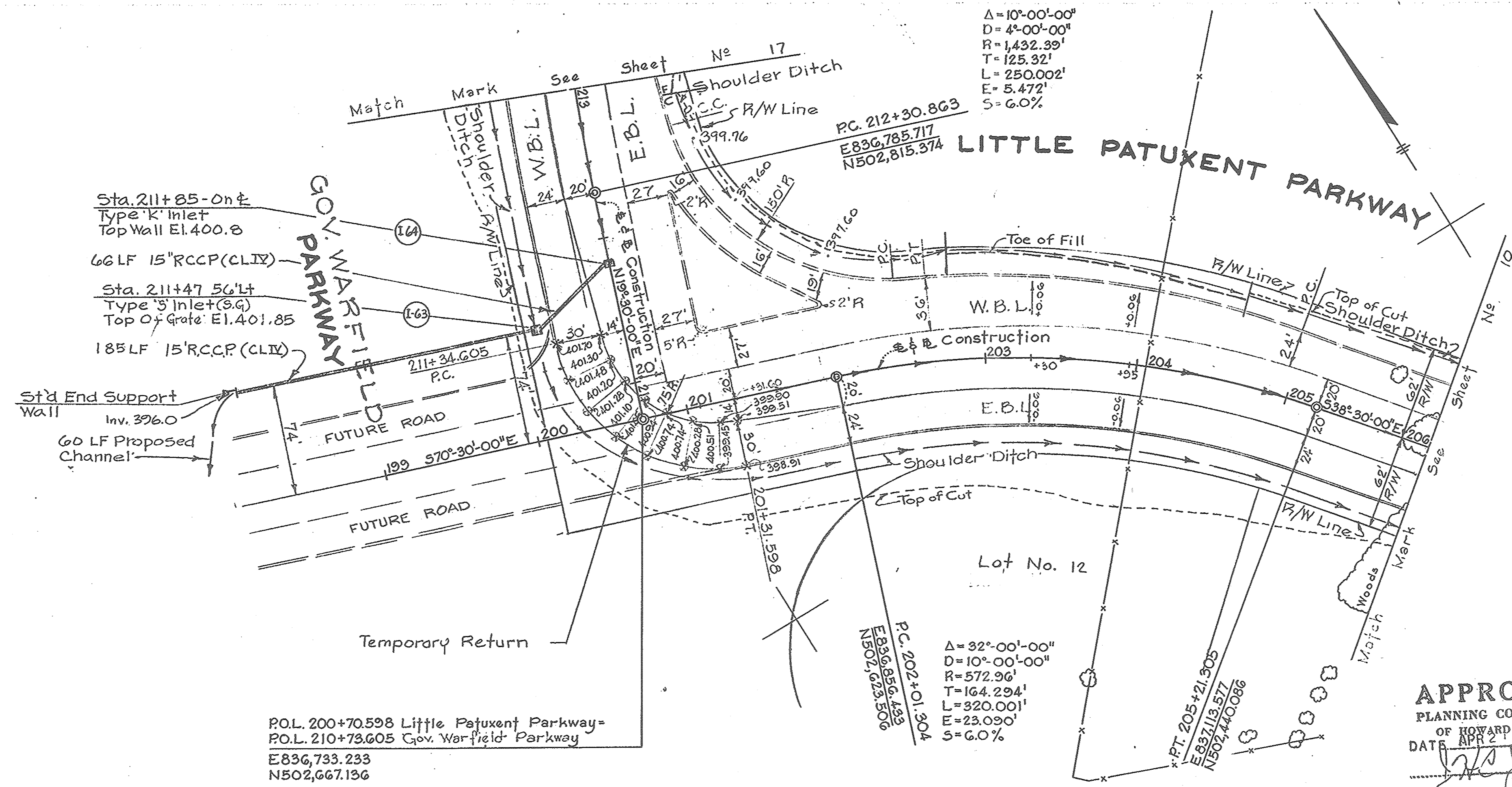
NOTE: FOR M.H. COVER & FRAME.
HOWARD COUNTY STANDARDS:
DRAWING D-106

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: 10/28/66
J.F.L.

WR&A Comments	10/28/66
DETAIL SHEET	
As Noted	Nov. 28, 1966 J.F.L. 8.04.29

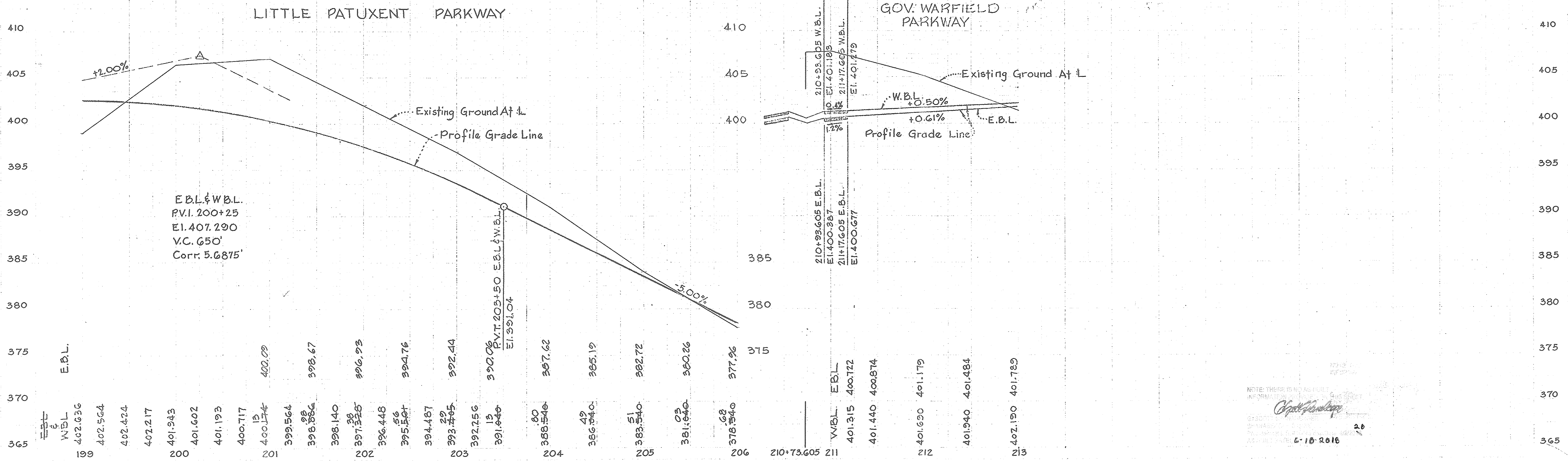
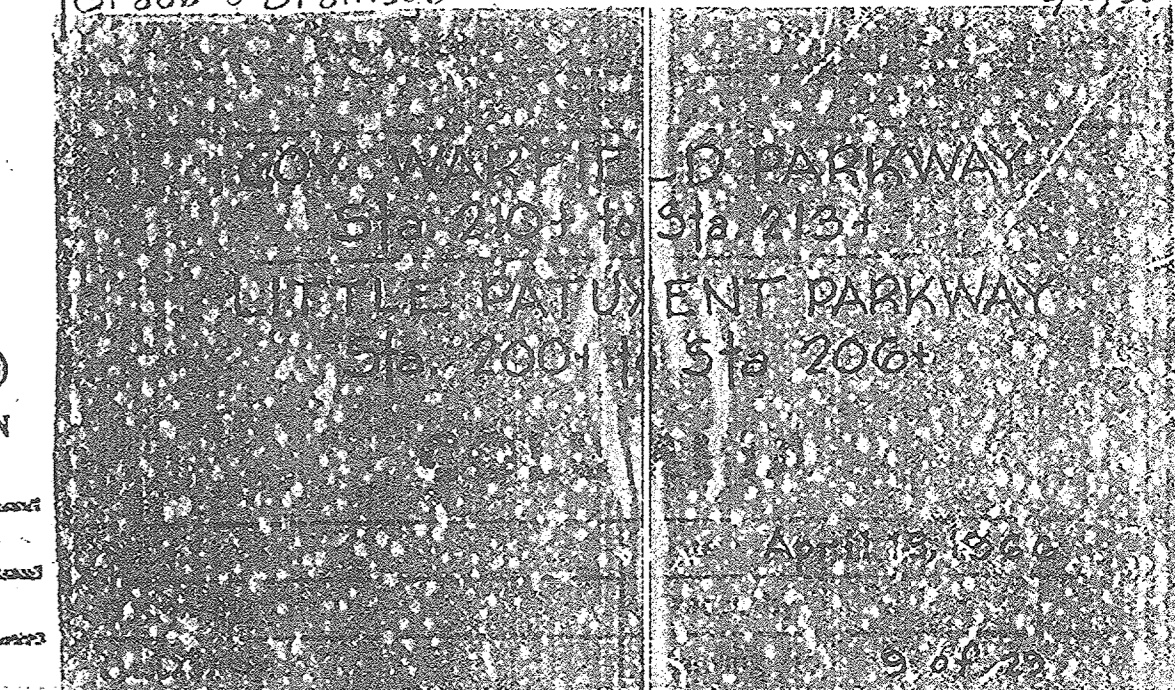
NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
Scott
G. SCOTT
SHAWNEE COUNTY
AS-BUILT DRAWING
6-10-2018



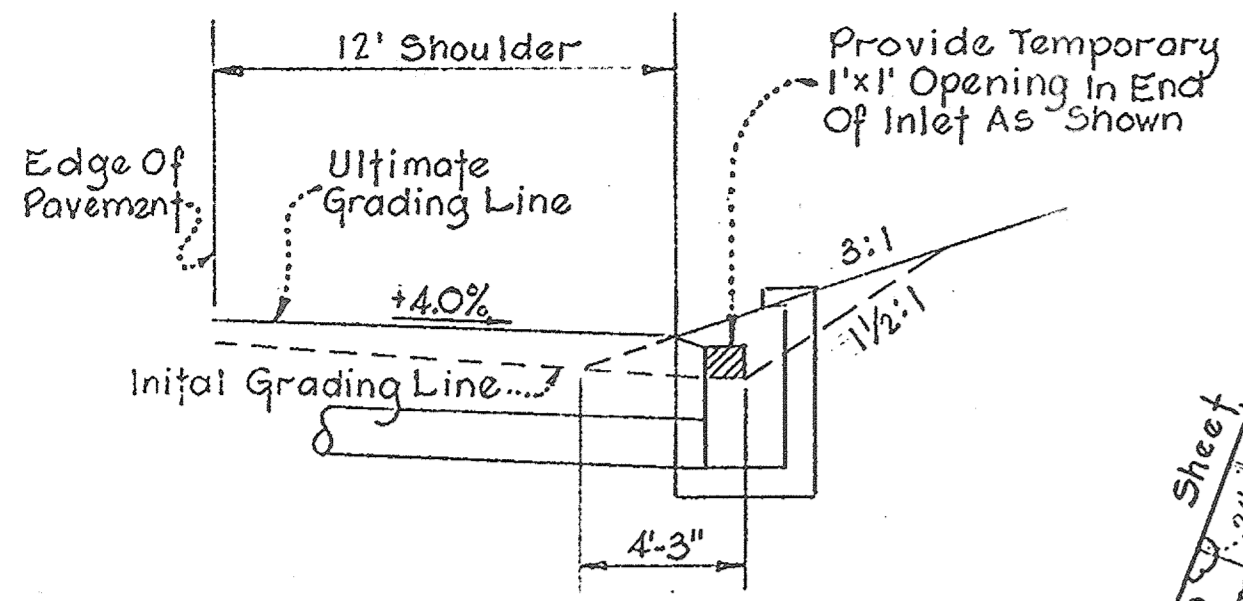


⊗ Indicates Pavement Elevations

Added Pav't (E.B.L.) Deleted Pav't (W.B.L.) And Spot E.I.	10/12/66
Added Drainage	9/22/66
Drainage	6/23/66
Grade	6/24/66
Grade & Drainage	5/12/66

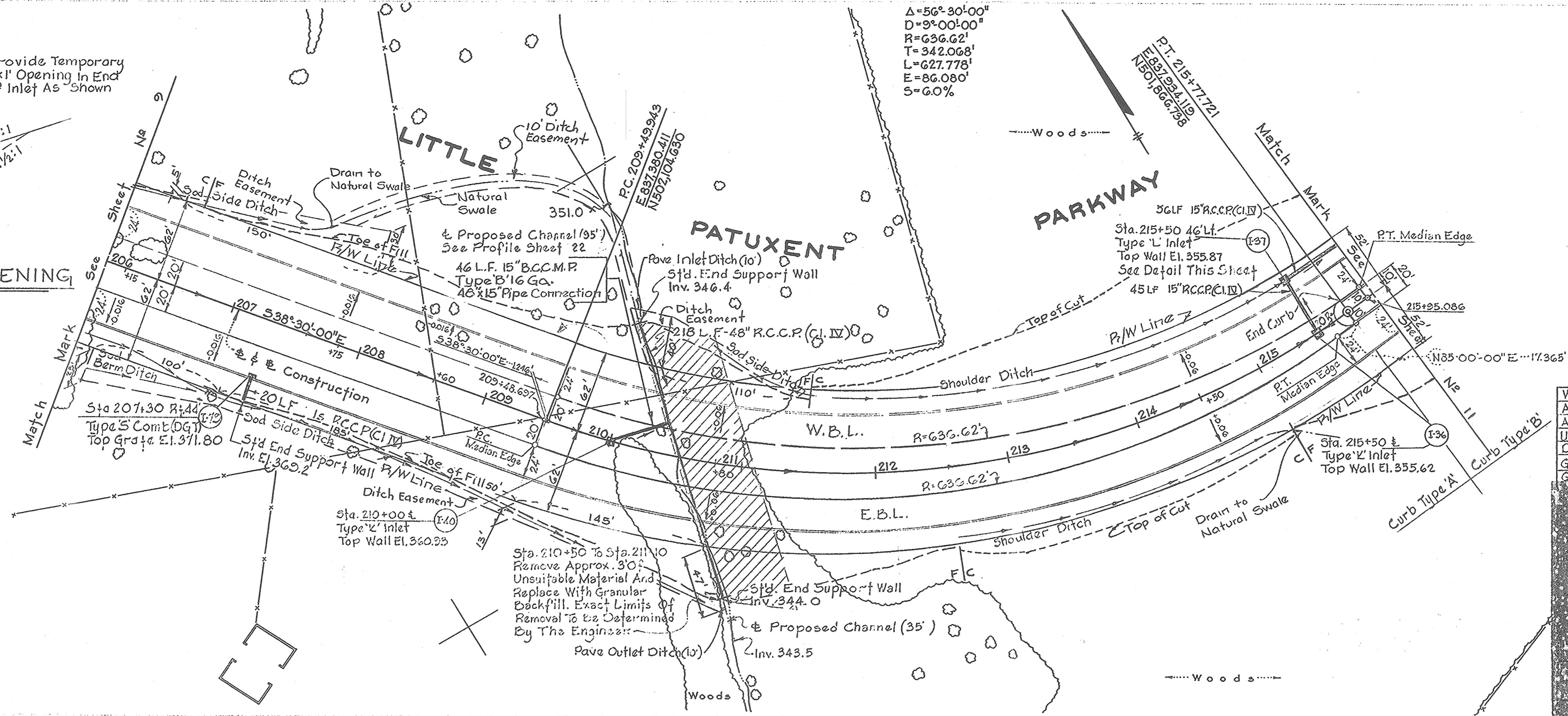


STORM DRAIN PROFILES
 Sta. 210+54 (Culvert) See Sheet No. 22
 Sta. 206+ To Sta. 216+ See Sheet No. 24
 Sta. 207+ See Sheet No. 27



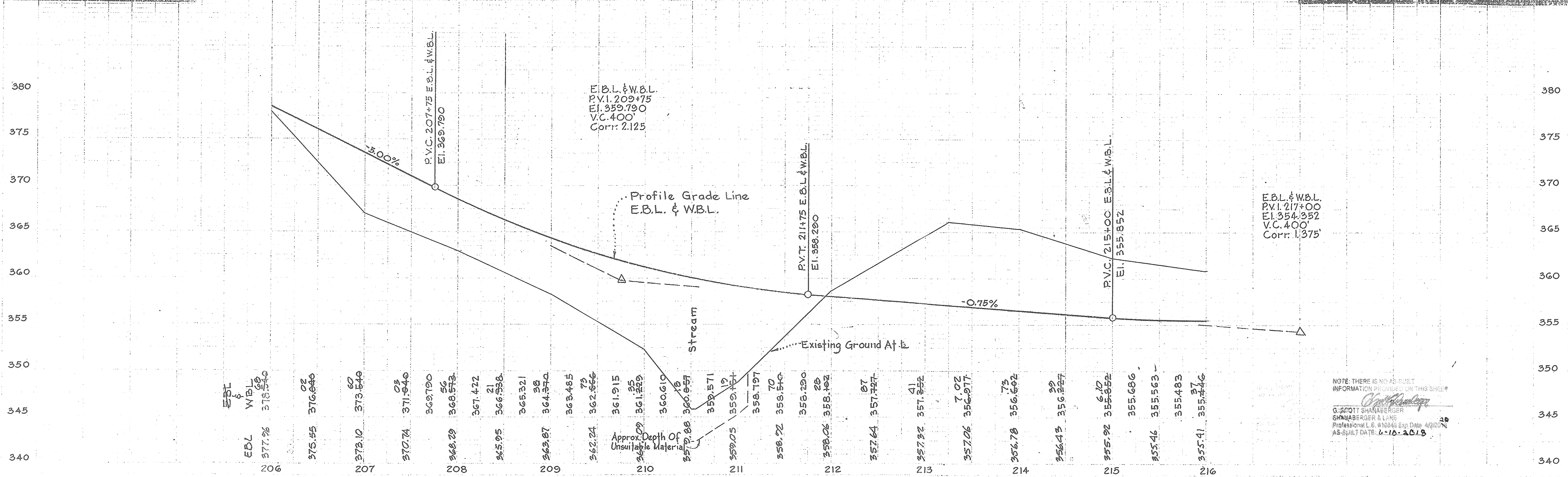
TEMPORARY DRAINAGE OPENING
 'L' INLET
 STA. 215+50 LT.

$\Delta = 56^\circ 30' 00''$
 $D = 9^\circ 00' 00''$
 $R = 636.62'$
 $L = 342.068'$
 $E = 86.080'$
 $S = 6.0\%$

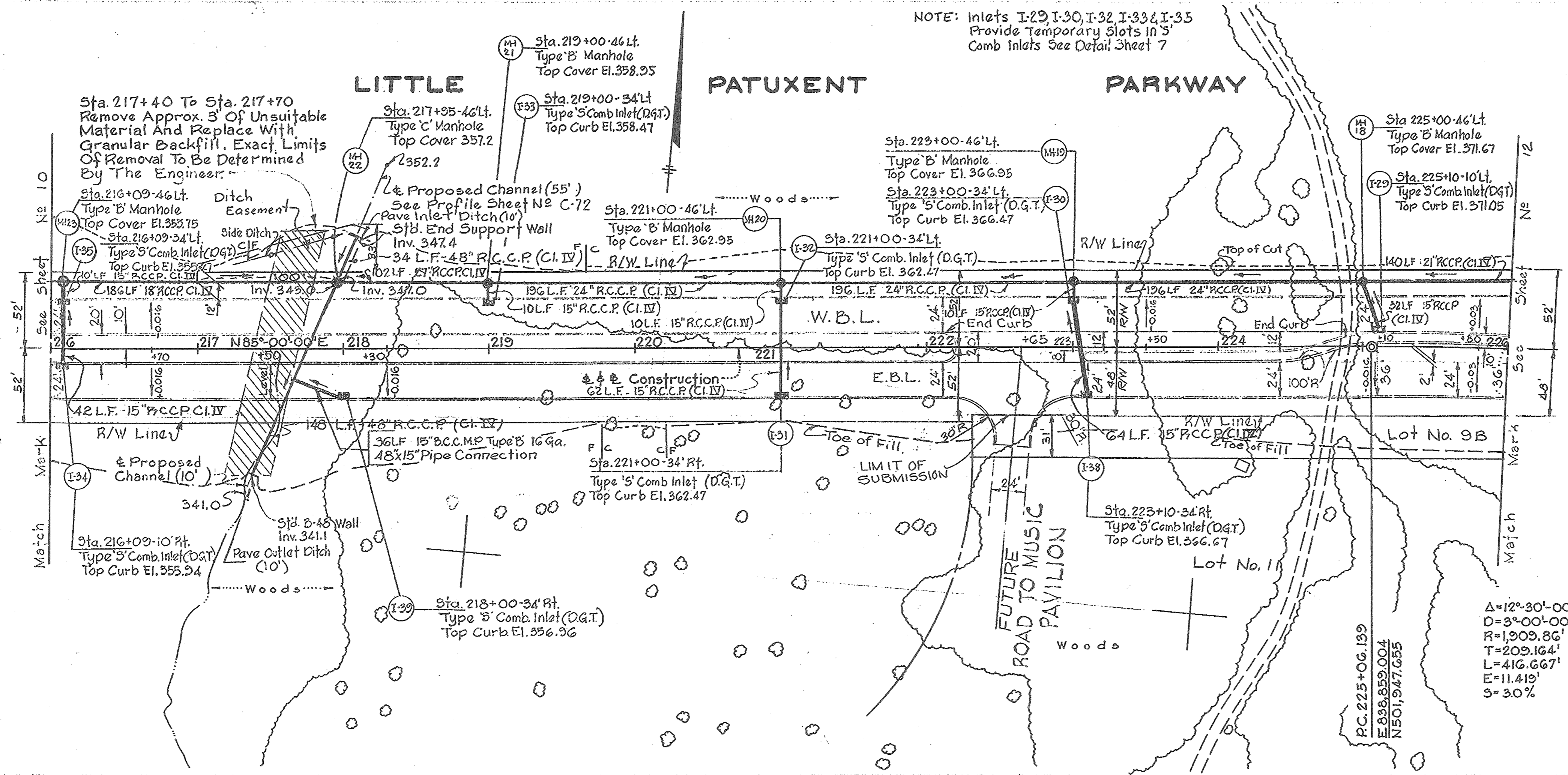


APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE: APR 21 1967

W.R. Comments	Date
Added Pav't (E.B.L.) Deleted Pav't (E.B.L.) Added Drainage	10/28/66
Added Drainage	10/12/66
Unsuitable Material Drainage	7/15/66
Grade	6/24/66
Grade & Drainage	5/18/66



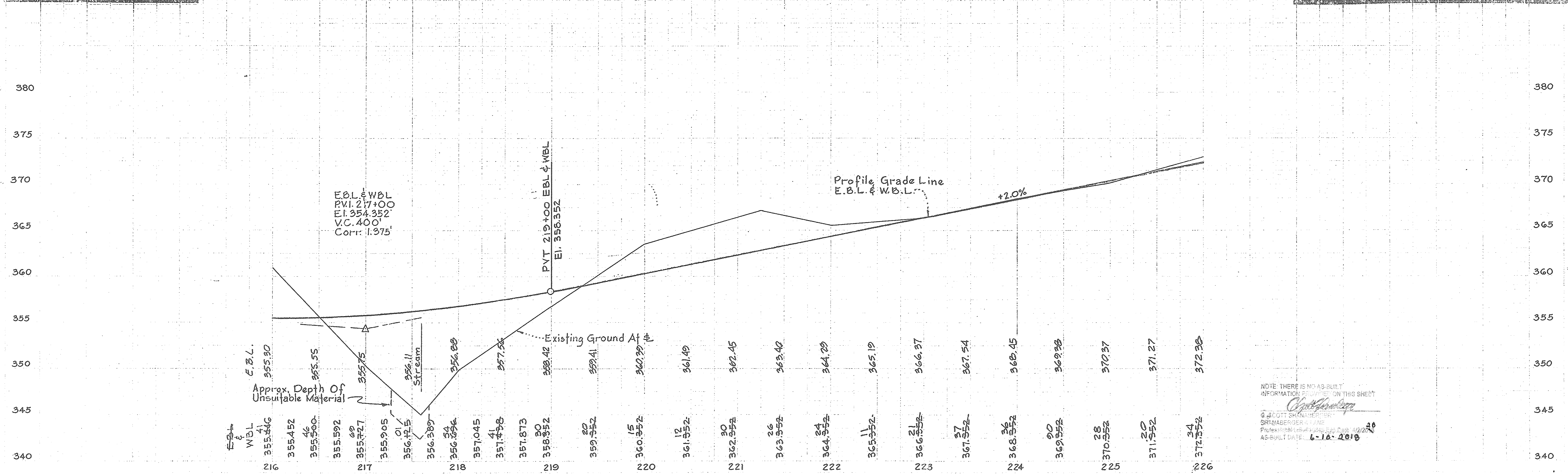
NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET
 G. SCOTT SHANBERGER
 SHANBERGER & LANE
 PROFESSIONAL L.S. & LAND SURVEYORS
 AS-BUILT DATE: 6-10-2013



STORM DRAIN PROFILES
Sta 217+75 (Culvert) See Sheet No. 22
Sta 216+ to Sta 226+ See Sheet No. 24

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1997

W.P.C.A. Comments	10/28/66
Added Pavt (E.B.L.) Deleted Pavt (W.B.L.) & Spot E.lev.	10/12/66
Added Drainage	9/22/66
Unsuitable Material	7/15/66
Drainage	6/29/66
Grade	4/24/66
Grade & Drainage	3/18/66



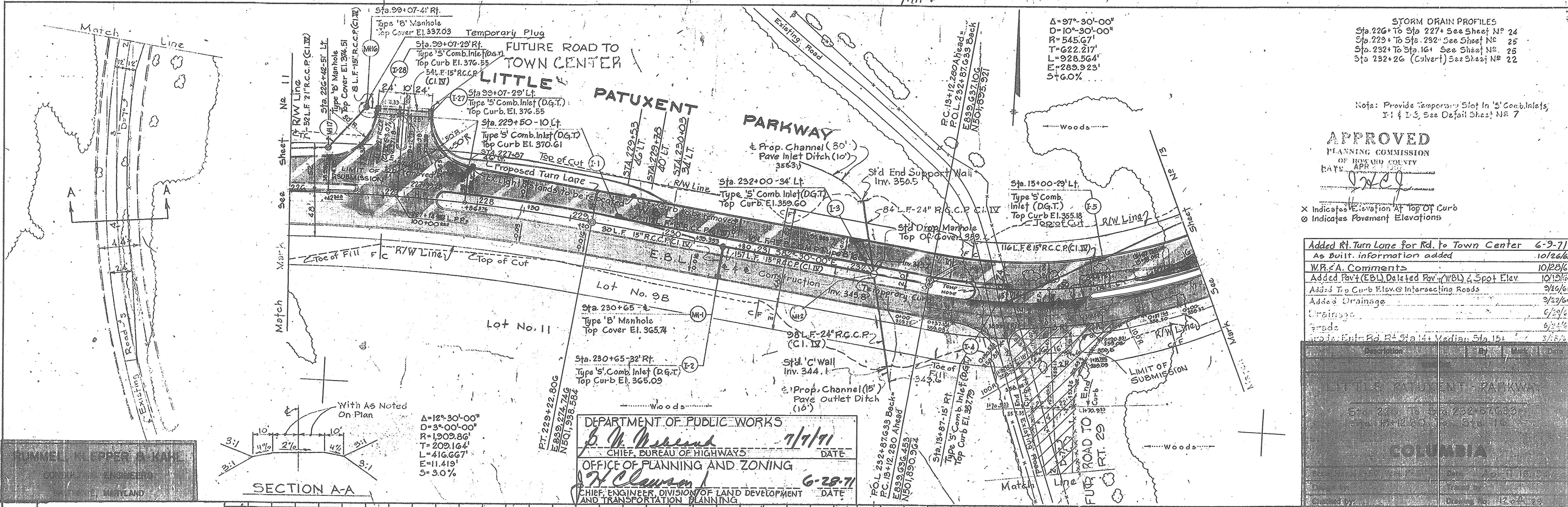
NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET

 ROBERT S. MAMERBERGER
 PROFESSIONAL ENGINEER
 AS-BUILT DATE: 6-16-2018

#55

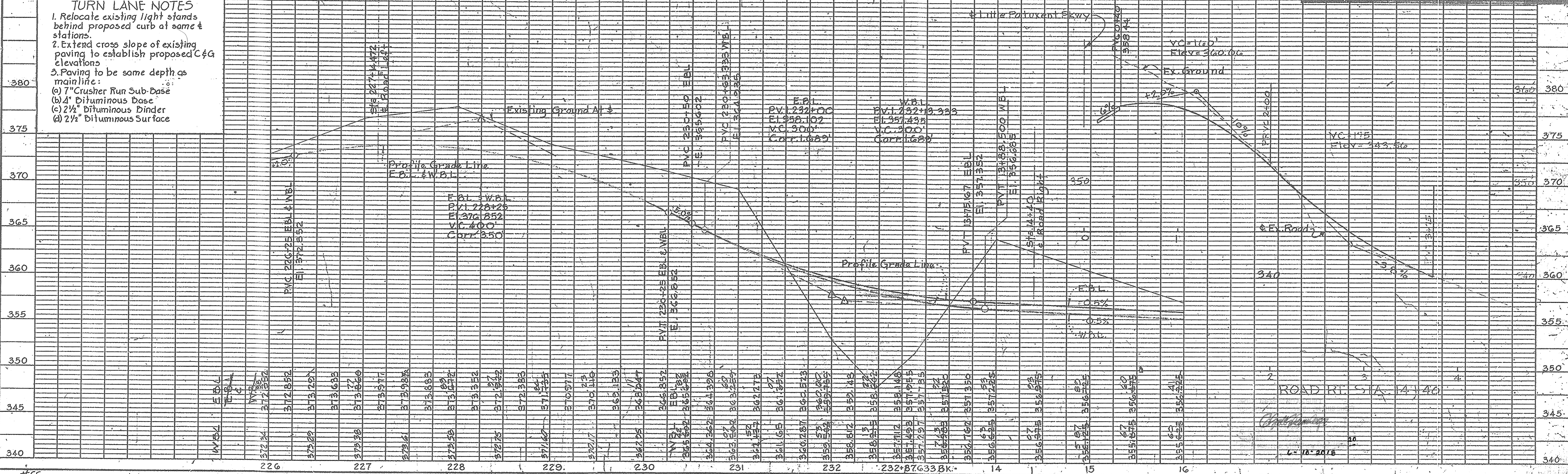
DATE	
BY	
SURVEYED	
NOTE BOOK	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NO.	

DATE	
BY	
SURVEYED	
NOTE BOOK	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	



DEPARTMENT OF PUBLIC WORKS
[Signature] 7/7/71 DATE
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING
[Signature] 6-29-71 DATE
 CHIEF, ENGINEER, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

TURN LANE NOTES
 1. Relocate existing light stands behind proposed curb at same & stations.
 2. Extend cross slope of existing paving to establish proposed C&G elevations.
 3. Paving to be same depth as main line:
 (a) 7" Crusher Run Sub-Base
 (b) 4" Bituminous Base
 (c) 2 1/2" Bituminous Binder
 (d) 2 1/2" Bituminous Surface



DATE	REVISION	BY	APPR.
2016-01-04	Δ REVISED CURB LINE AND INDICATED ADJUSTMENTS TO EXISTING FEATURES.	LAG	DEV

STORM DRAIN PROFILES
Sta. 16+ To Sta. 24+ See Sheet No. 24
Sta. 19+75 (Culvert) See Sheet No. 23

- NOTES:
- LANE CLOSURE DURING THE CONSTRUCTION OF THE LANE MODIFICATIONS WILL BE PROVIDED PER SHA DETAIL MD 104.12-02.
 - FINAL LOCATION OF HAND BOXES WILL BE DETERMINED IN THE FIELD BY DPW-TRAFFIC DIVISION BASED UPON BOTH THE EXISTING CONDITIONS AND THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

X Indicates Elevation At Top Of Curb
⊗ Indicates Pavement Elevation

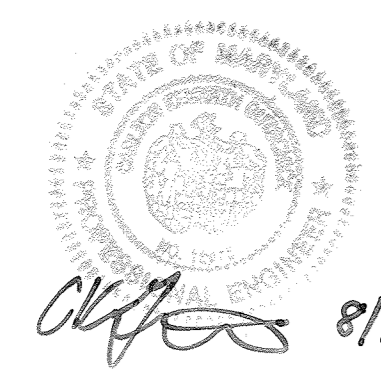
APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21, 1967

WR EA Comments	DATE
Added Top Curb Elev. @ Intersecting Roads	10/28/66
Added Drainage	9/22/66
Drainage	6/23/66
Entr. Rd. Rt. Sta. 18+ Median Sta. 16+	5/18/66

REVISIONS	BY	MARK	DATE
LITTLE PATUXENT PARKWAY Sta. 16+ to Sta. 24+ COLUMBIA			
Scale: Horiz. 1"=50' Vert. 1"=5'	Date: April 18, 1966		
Design:	Drawn By:		
Checked:	Drawing No.: 13 of 24		

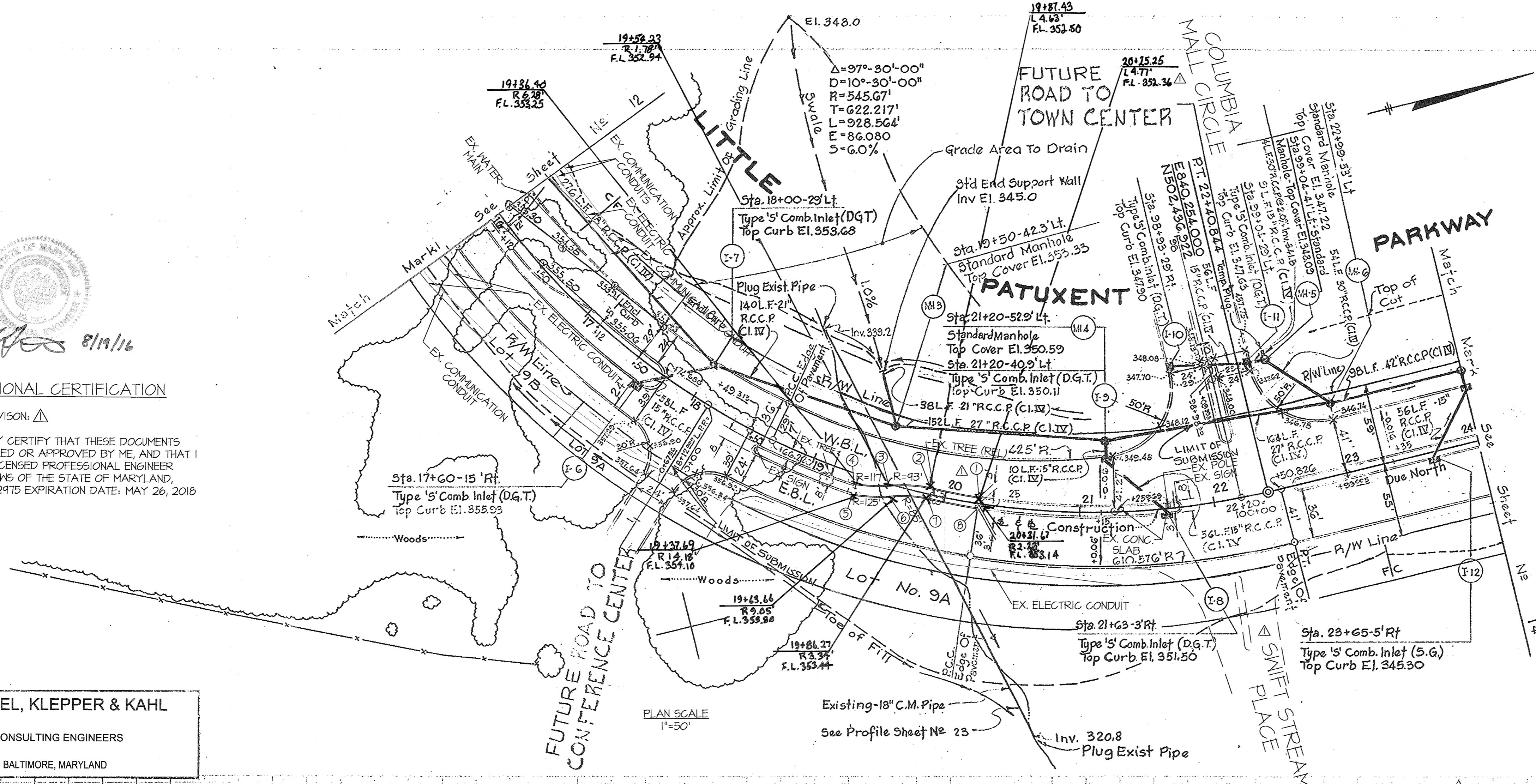
CURB FLOW LINE ELEV.			
#	STA	O/S	DESC
①	20+24	5' L	MEET EX. START/PC
②	19+87	5' L	352.53 POC
③	19+58	1' R	352.83 POC
④	19+33	1' R	MEET EX. END/PT
⑤	19+34	15' R	MEET EX. START/PC
⑥	19+61	8' R	353.75 POC
⑦	19+88	3' R	353.64 POC
⑧	20+24	3' R	MEET EX. END/PT

AS-BUILT NOTE
MEDIAN IMPROVEMENTS TO GOV. WARFIELD PARKWAY FROM STA. 223+73.86 TO 225+56.92 ARE SHOWN ON E.L. 67, SHEET 4 OF 8.

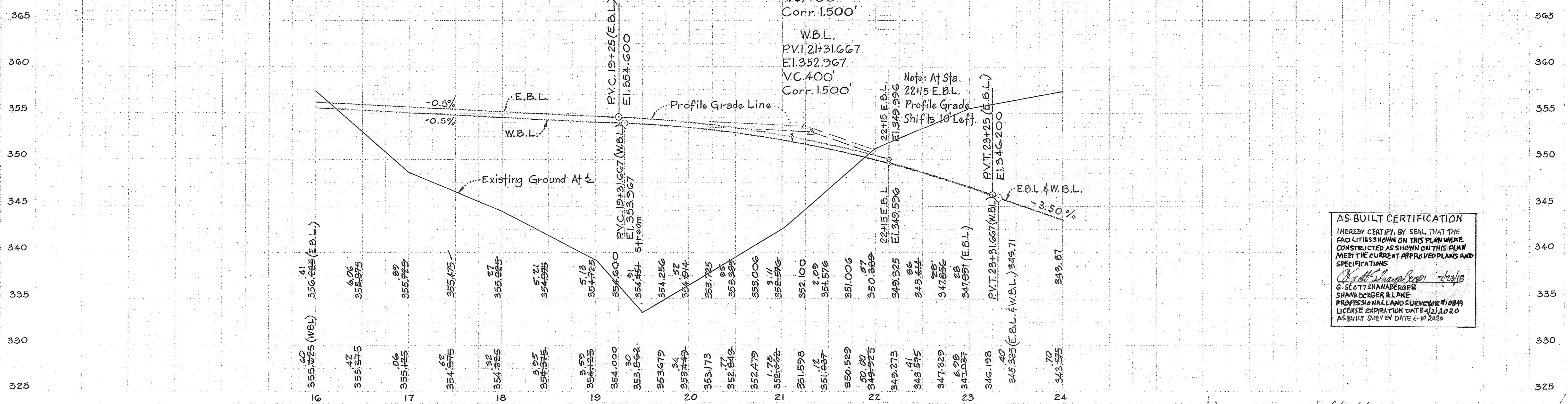


PROFESSIONAL CERTIFICATION
FOR REVISION: Δ
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 12915 EXPIRATION DATE: MAY 26, 2018

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
BALTIMORE, MARYLAND



PROFILE SCALE
HORZ: 1"=50'
VERT: 1"=5'

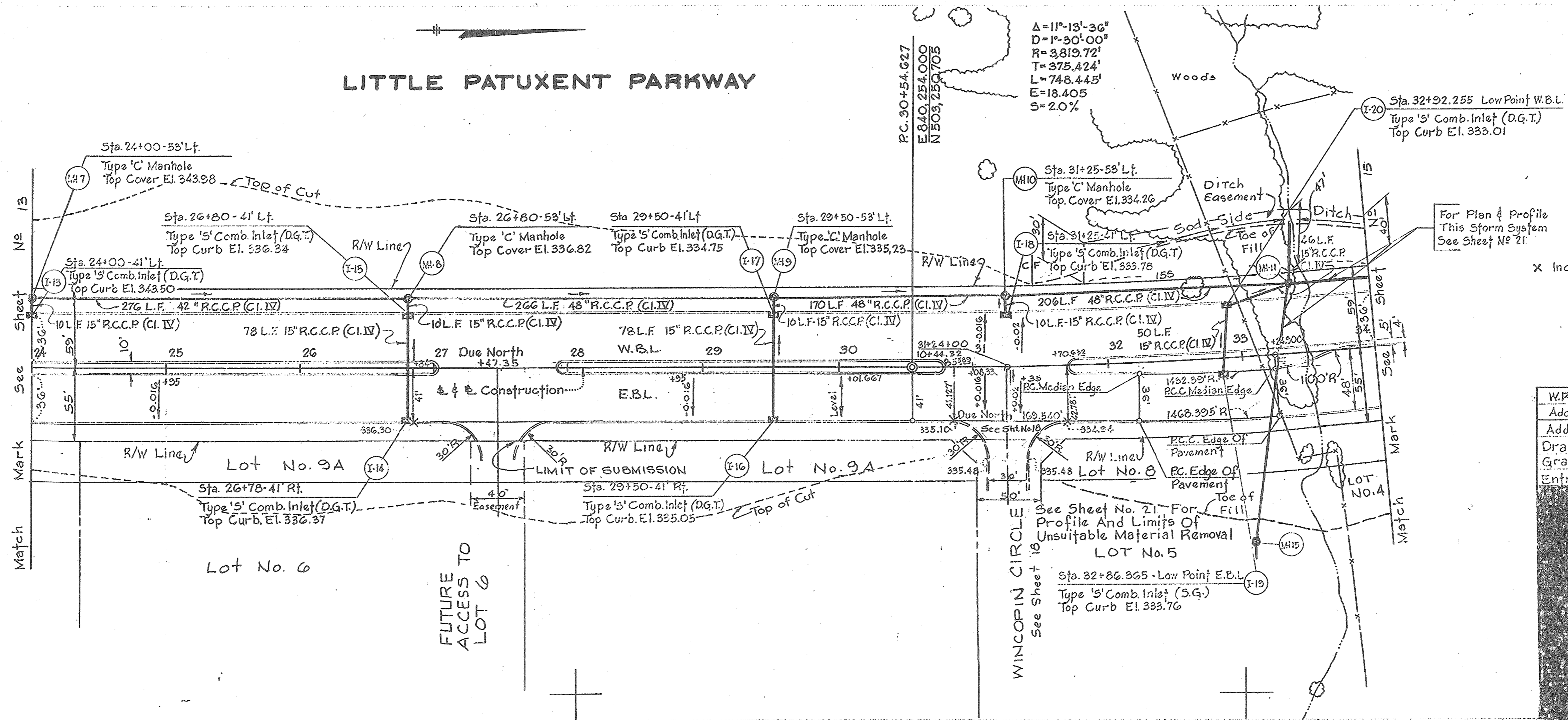


- LEGEND
- EX TREE
 - EX TREE TO BE RELOCATED
 - EX SIGN
 - EX POLE
 - REL TO BE RELOCATED

AS-BUILT CERTIFICATION
I HEREBY CERTIFY, BY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS PLAN MEET THE CURRENT APPROVED PLANS AND SPECIFICATIONS
G. SCOTT SHANBERGER
PROFESSIONAL LAND SURVEYOR #10849
LICENSE EXPIRATION DATE 12/31/2020
AS-BUILT SURVEY DATE 6-10-2020

LITTLE PATUXENT PARKWAY

STORM DRAIN PROFILES
Sta. 24+ to Sta. 33+ See Sheet No. 24
Sta. 33+ to Sta. 34+ See Sheet No. 21

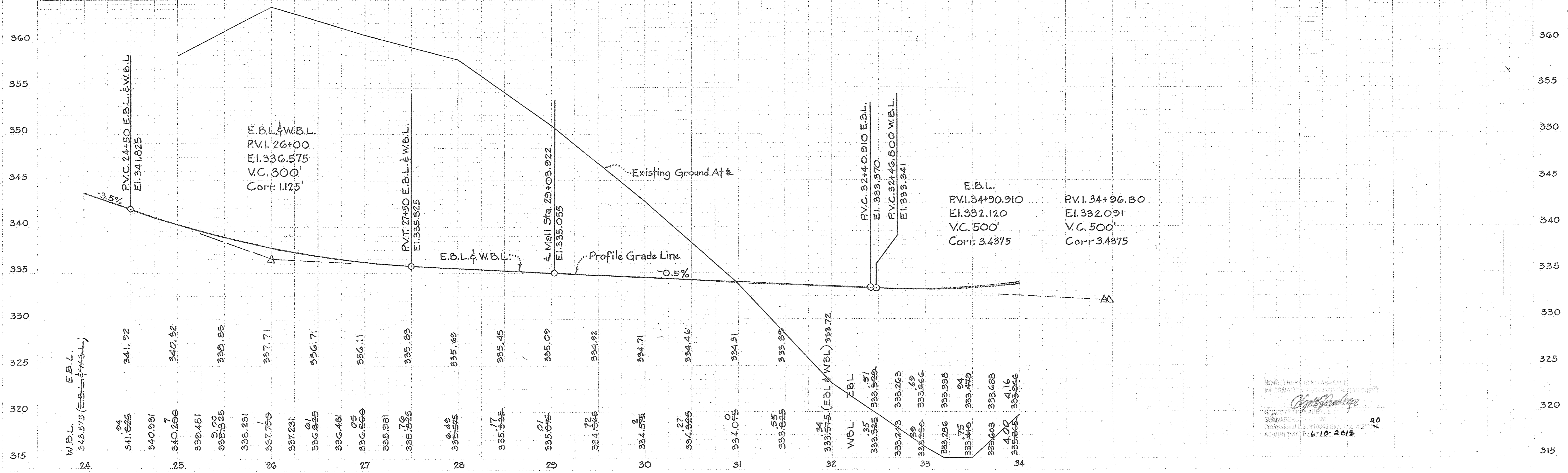


For Plan & Profile
This Storm System
See Sheet No. 21

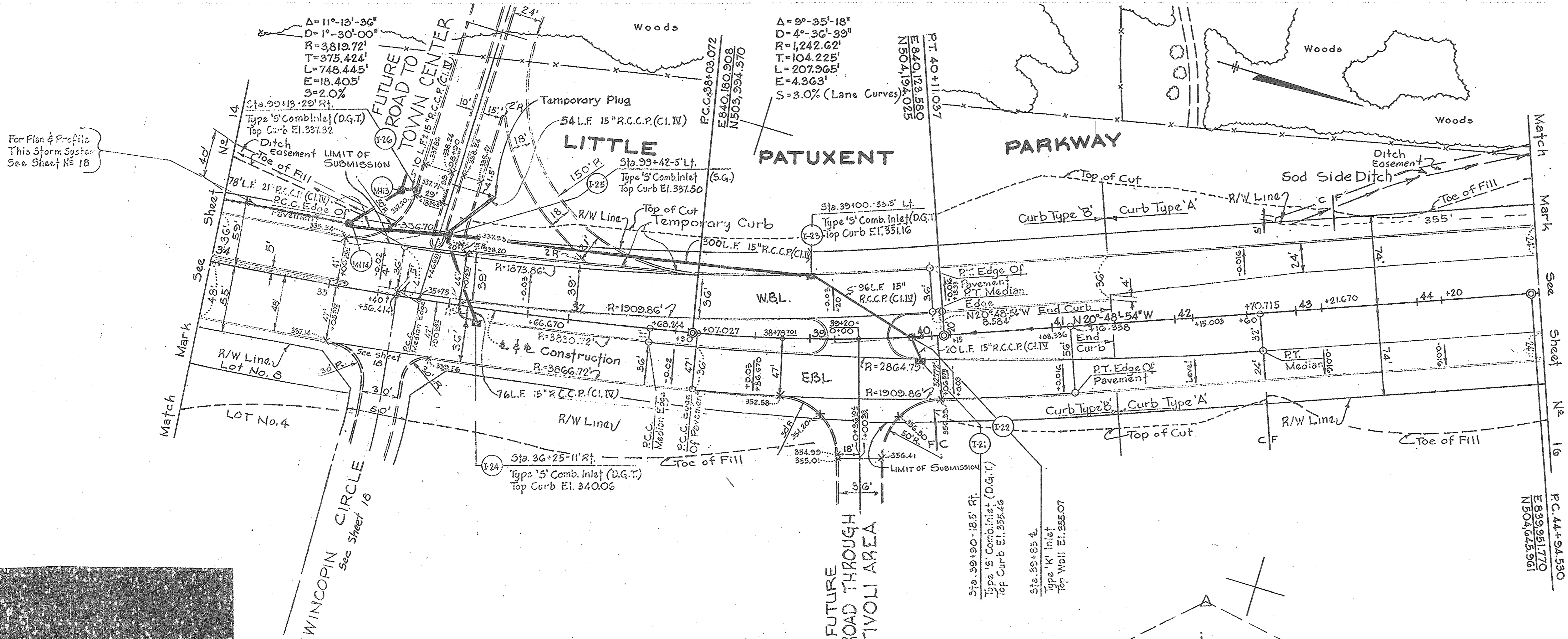
x Indicates Elevation At Top Of Curb

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1967

W.P. & A. Comments	Date
Added Top Curb Elev. @ Intersecting Roads	10/23/66
Added Drainage	10/19/66
Drainage	5/23/66
Grade	6/23/66
Entr. Rd. Rt. Sta. 25+ & 27+	5/15/66



NOTE: THERE IS NO AS-BUILT INFORMATION INCLUDED IN THIS SHEET
Opdyke & Associates
C. OPDYKE, P.E.
SHEAN, P.E.
Professional L.S. #10049 Exp. Date 12/31/70
AS-BUILT DATE: 6-10-2018

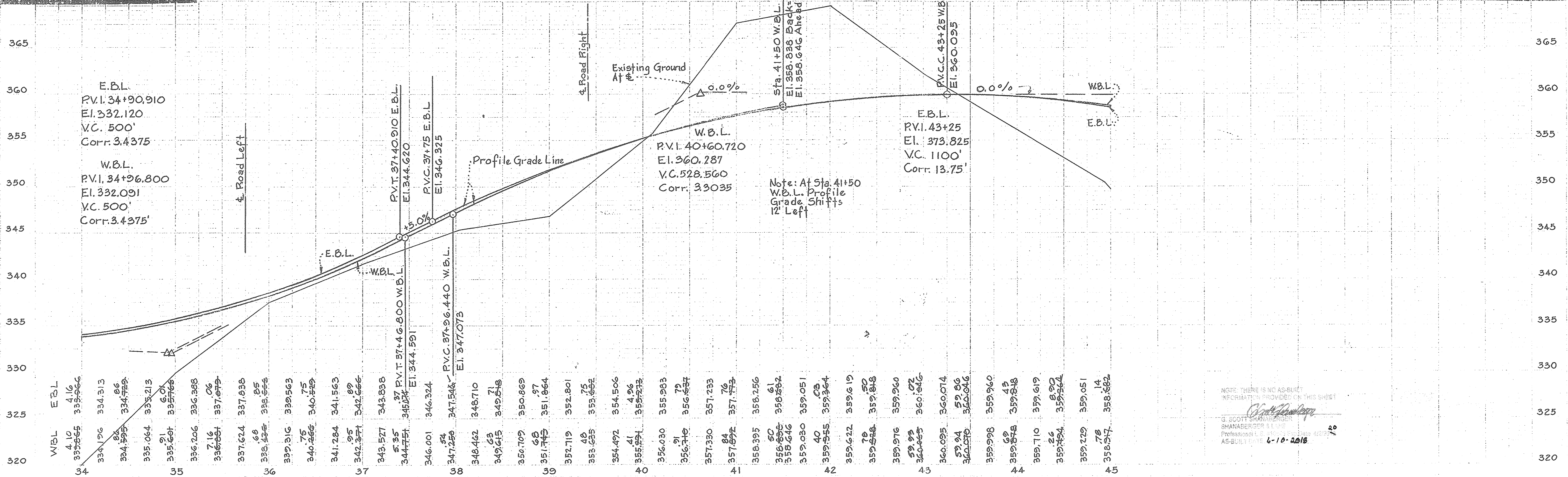


STORM DRAIN PROFILES
 Sta. 34+ To Sta. 35+ See Sheet No. 21
 Sta. 35+ To Sta. 40+ See Sheet No. 25

X Indicates Elevation At Top Of Curb

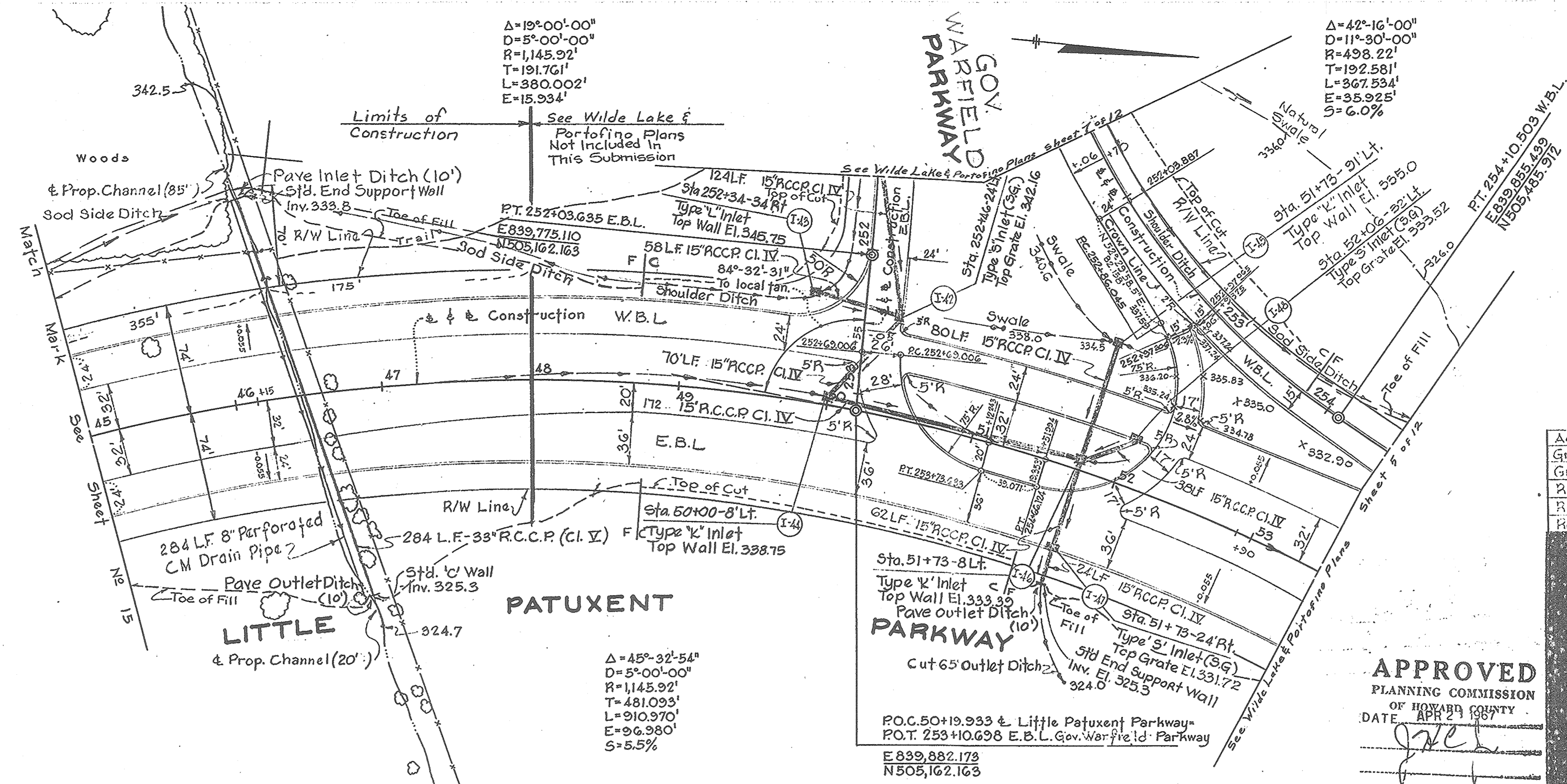
APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE: APR 21 1967

CORRECT LOCATION ON I/S	4/15/67
W.P.A. Comments	10/28/66
Added Top Curb Elev. @ Intersecting Roads	10/19/66
Added Drainage	9/22/66
Drainage	6/23/66
Grade	6/23/66
Entr. Lt. Sta. 354 2+20 Drainage	6/19/66



NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET

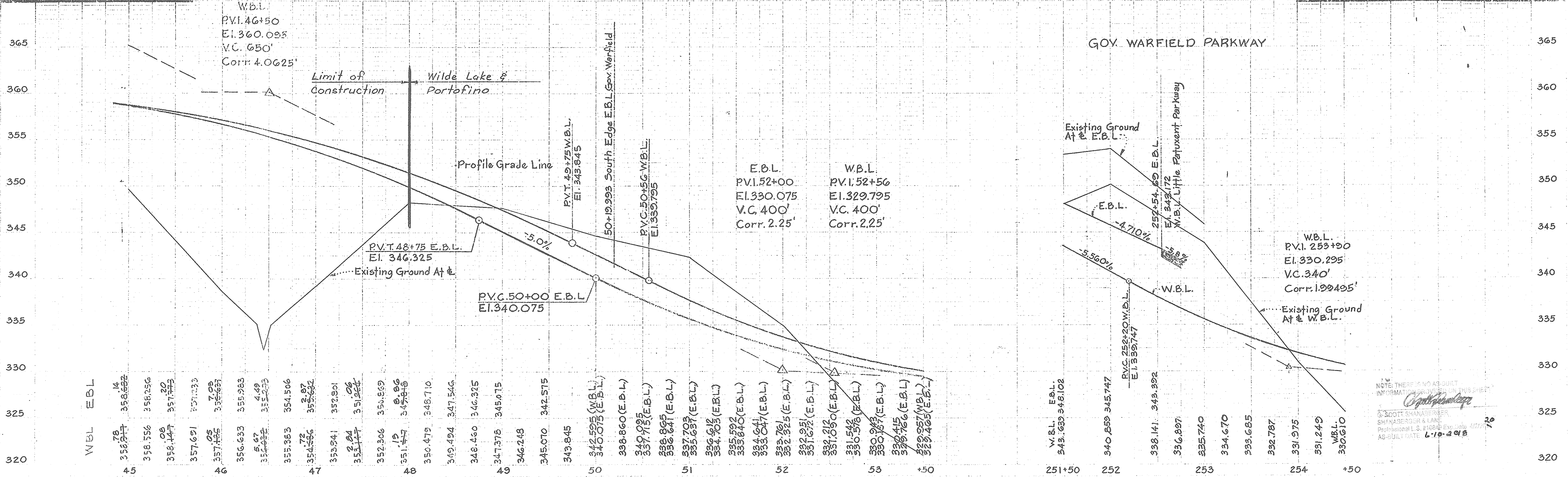
G. SCOTT SHANBERGER
 SHANBERGER & LANE
 PROFESSIONAL ENGINEERS
 AS-BUILT DATE: 4-10-2018



x Indicates Elevations Of Top Of Curb

Added Drainage	9/22/66
Grade Change Gov. Warfield Parkway	8/12/66
Grade Change Gov. Warfield Parkway	7/22/66
Revised Drainage	6/22/66
Revised Grade	4/24/66
Revised Grade	3/15/66

APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE APR 23 1967



NOTE: THERE IS NO AS-BUILT INFORMATION AVAILABLE IN THIS SHEET.
 SCOTT SHANBERGER
 SHANBERGER & LANE
 PROFESSIONAL L.S. & ENGINEERS
 AS-BUILT DATE: 6-19-67

Storm Drain Profiles
 Sta. 216+79 See Sheet No. 28
 Sta. 213+00 To 224+00 See Sheet No. 28

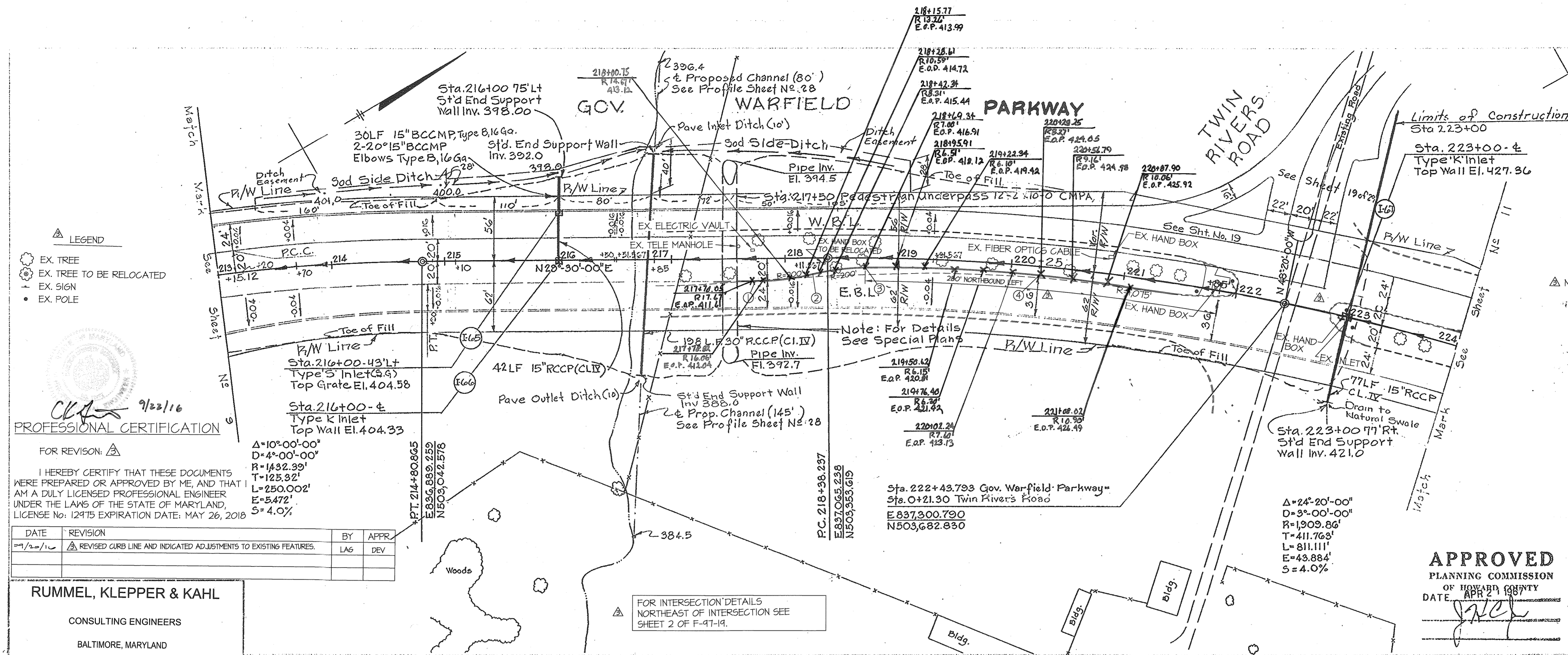
PT. #	STA	O/S	ELEV	DESC
①	217+16.30	18.0' R	MEET EX.	START/PC
②	218+21.82	12.90' R	411.45	FL/PRC
③	218+68.04	7.80' R	414.64	FL/PRC
④	220+25.00	7.80' R	MEET EX.	FL/POC

- NOTES:
- LANE CLOSURE DURING THE CONSTRUCTION OF THE LANE MODIFICATIONS WILL BE PROVIDED PER SHA DETAIL MD 104.12-02.
 - FINAL LOCATION OF HAND BOXES WILL BE DETERMINED IN THE FIELD BY DPW-TRAFFIC DIVISION BASED UPON BOTH THE EXISTING CONDITIONS AND THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

Added Drainage	9/22/66
Grade Revised	8/19/66
Grade Revised	7/22/66
Drainage	6/29/66
Grade	6/24/66
Grade & Drainage	5/18/66

REVISIONS	BY	MARK	DATE
GOV. WARFIELD PARKWAY			
Sta. 213 to Sta. 223			
COLUMBIA			
Scale: Horiz. 1"=50' Vert. 1"=5'	Date: April 18, 1966	Design:	Drawn By:
Checked:	Drawing No. IT of 29		

APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE: APR 18 1966



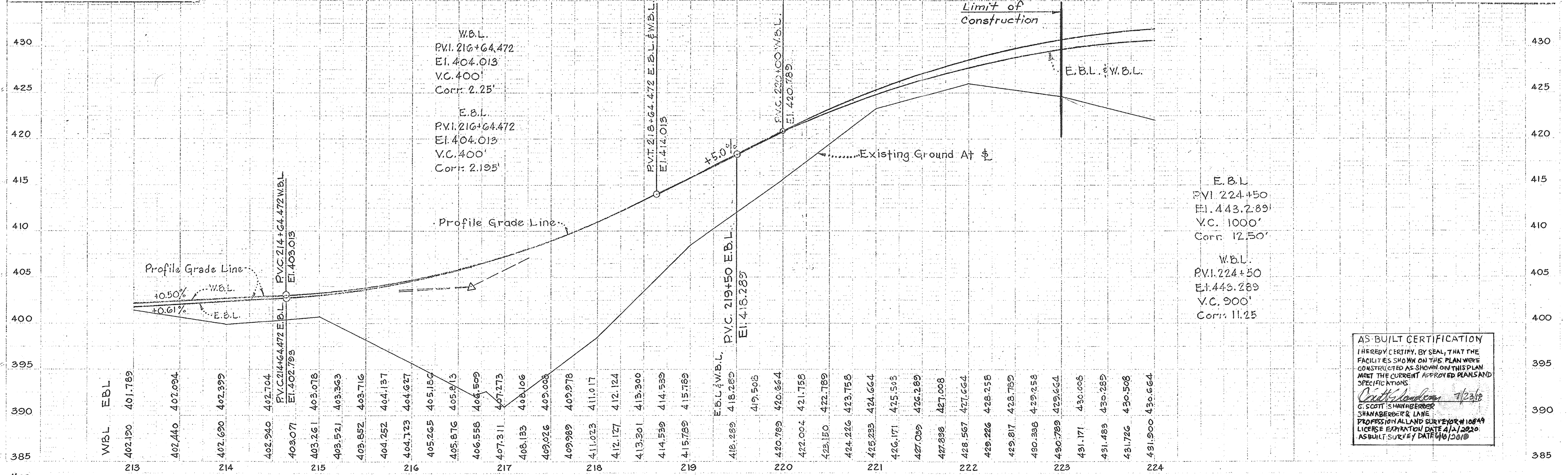
LEGEND

- EX. TREE
- EX. TREE TO BE RELOCATED
- EX. SIGN
- EX. POLE

PROFESSIONAL CERTIFICATION
 9/22/16
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12915 EXPIRATION DATE: MAY 26, 2018

DATE	REVISION	BY	APPR.
9/22/16	REVISED CURB LINE AND INDICATED ADJUSTMENTS TO EXISTING FEATURES.	LAG	DEV

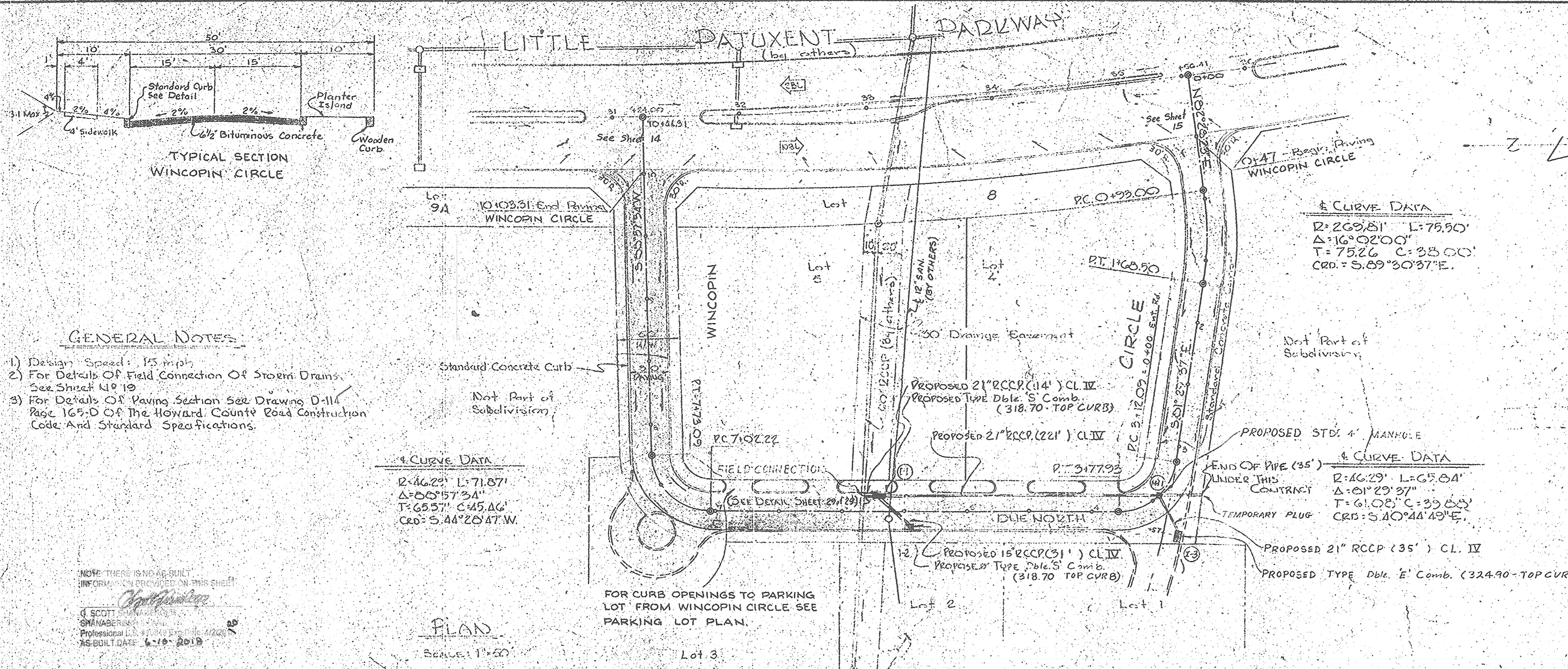
RUMMEL, KLEPPER & KAHL
 CONSULTING ENGINEERS
 BALTIMORE, MARYLAND



AS-BUILT CERTIFICATION
 I HEREBY CERTIFY, BY SEAL, THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THIS PLAN MEET THE CURRENT APPROVED PLANS AND SPECIFICATIONS.
 G. SCOTT SHAWBARGER
 PROFESSIONAL LAND SURVEYOR #10849
 LICENSE EXPIRATION DATE 4/1/2020
 AS-BUILT SURVEY DATE 4/1/2018

RP 19A #55

F-66-44



APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE: APR 2 1967

STANDARD CURB DETAIL
 SCALE: 1"=1'-0"

OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF CROSS KEYS
 BALTIMORE, MARYLAND, 21210

OWNER / DEVELOPER
 PIDDUM & JESCHKE ENGINEERS
 LAND SURVEYORS
 24 PARK AVENUE
 ELLICOTT CITY, MARYLAND

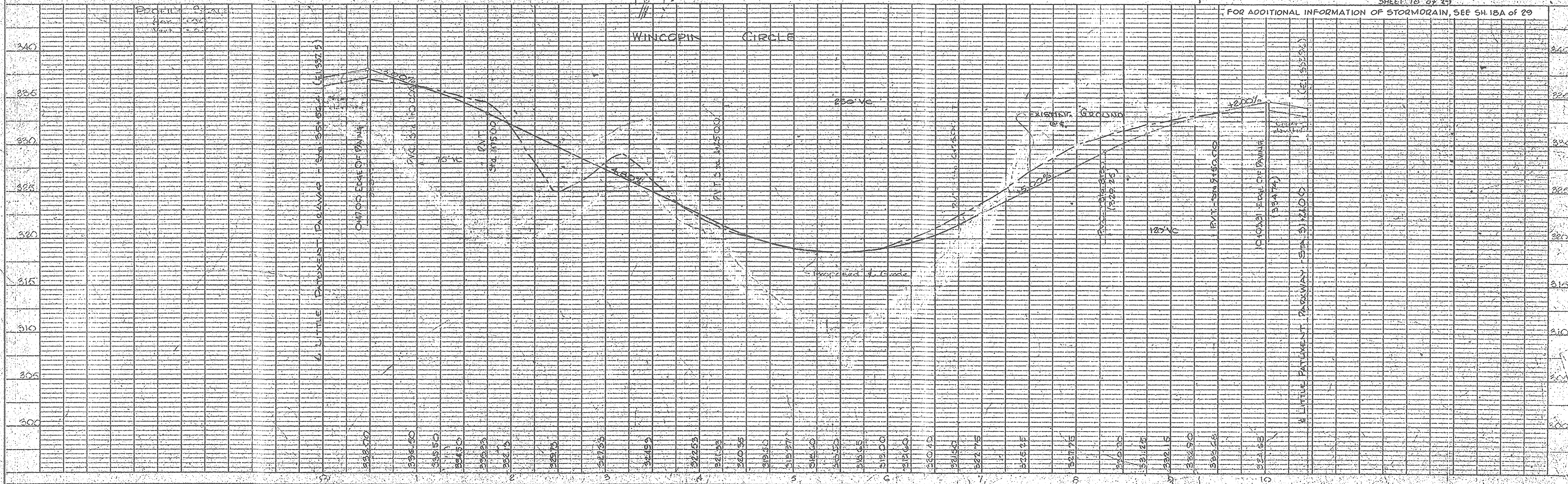
PLAN / PROFILE WINCOPIN CIRCLE
COLUMBIA
 SECTION NO. 1
 TOWN CENTER
 3rd ELECTION DISTRICT - HOWARD COUNTY, Md.
 JANUARY 10, 1968
 SHEET 18 OF 29

PLAN

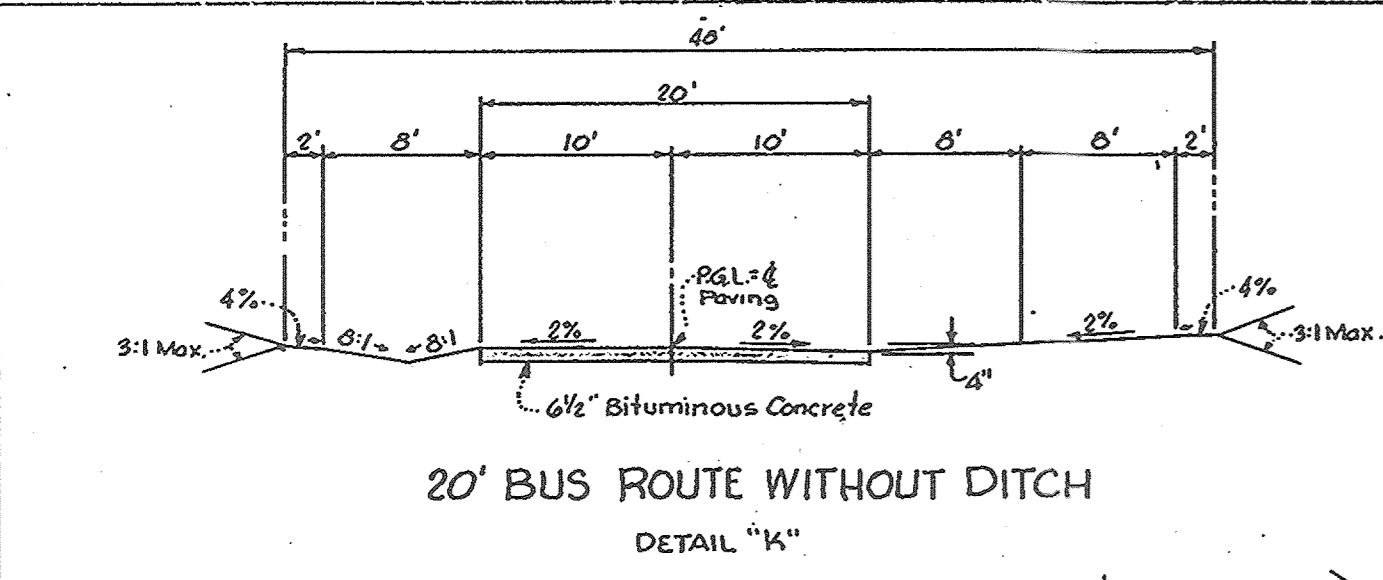
DATE	
BY	
CHECKED	
NOTED	
NO.	

PROFILE

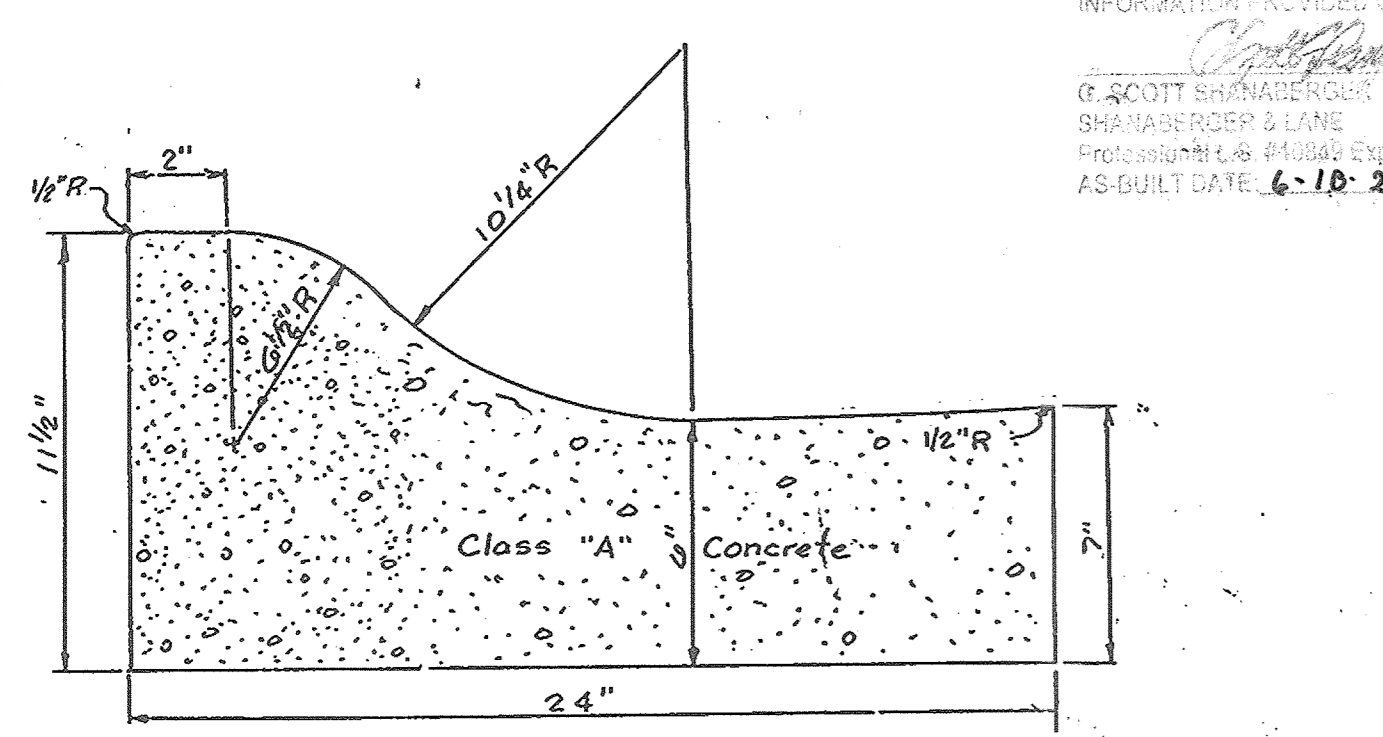
DATE	
BY	
CHECKED	
NOTED	
NO.	



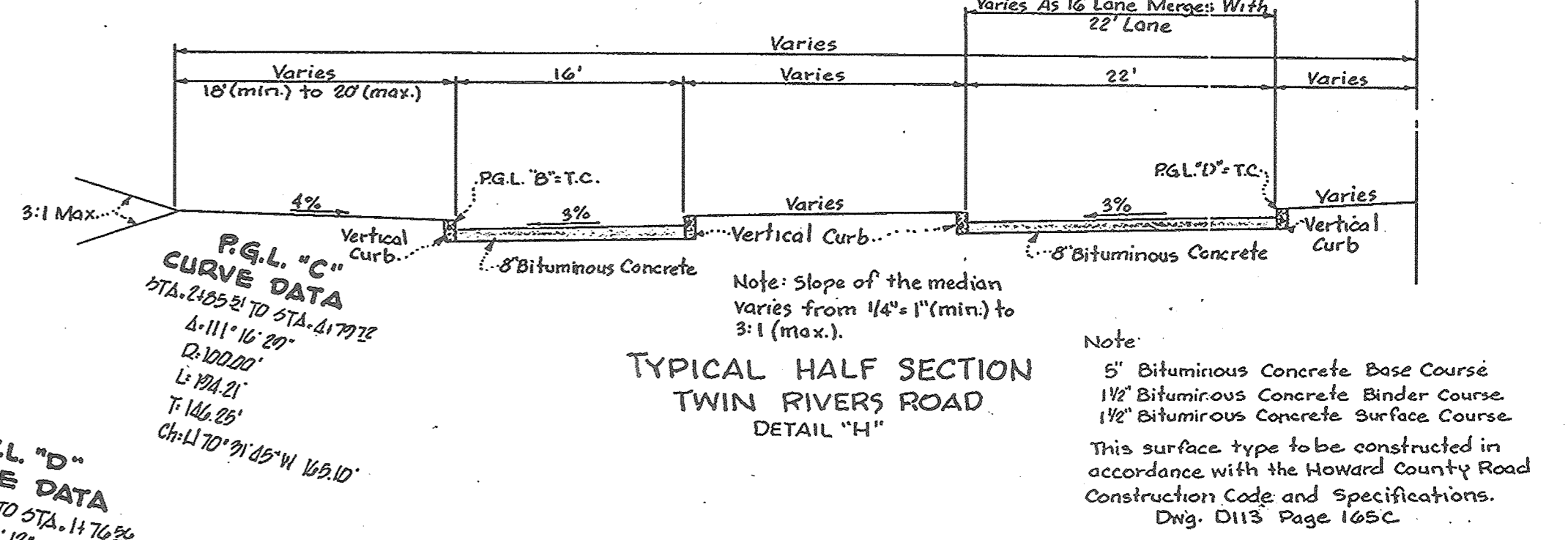
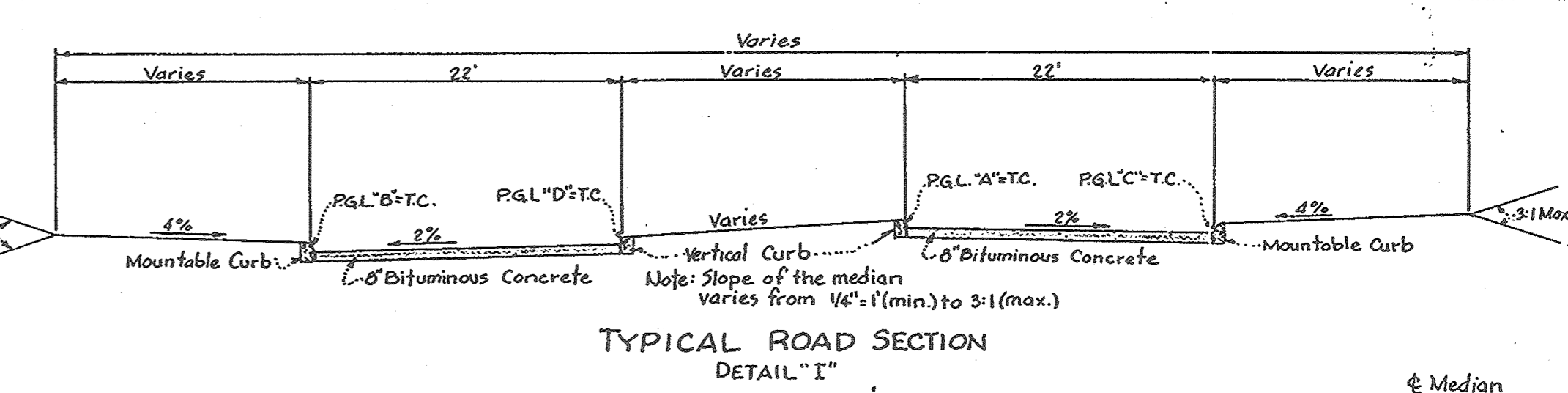
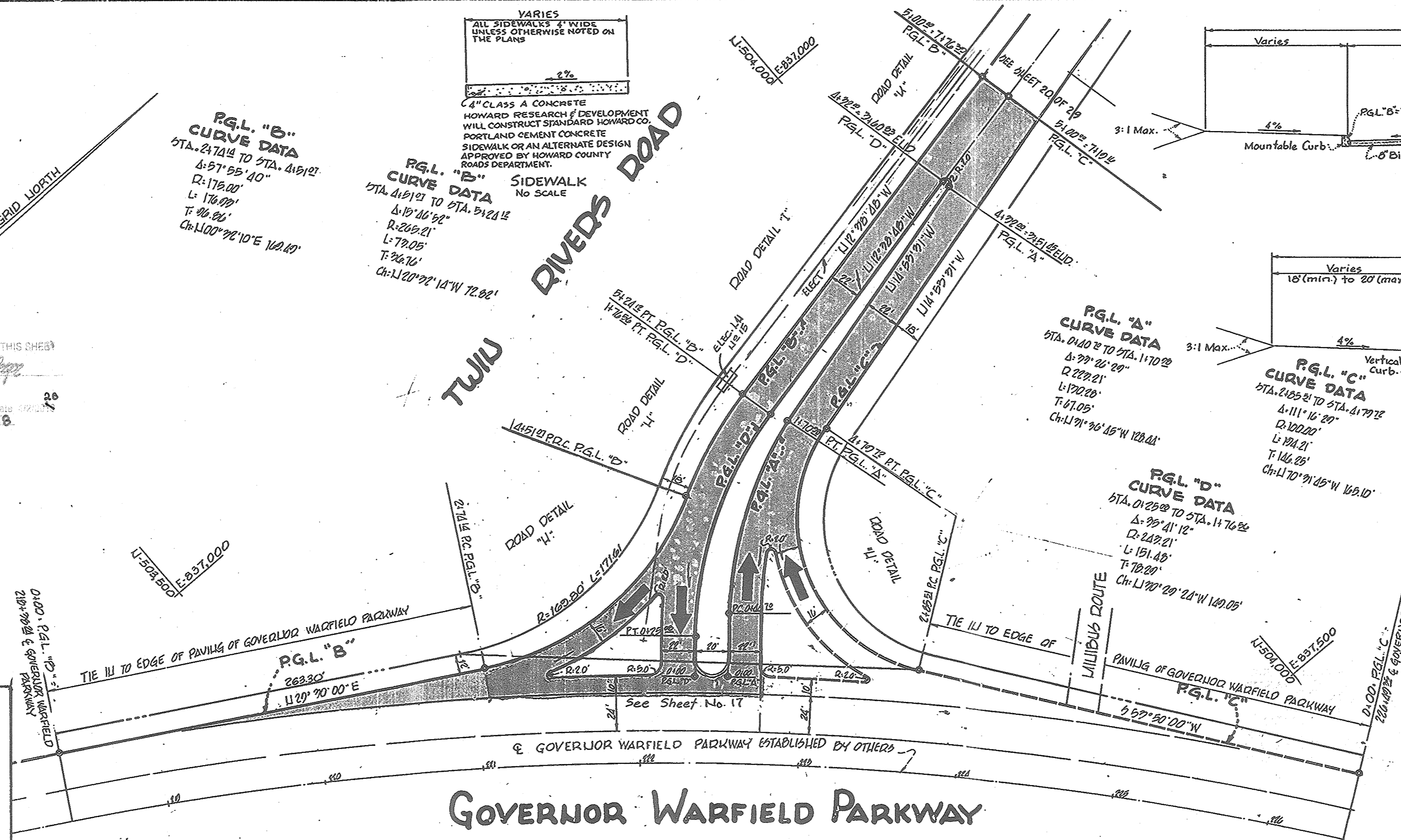
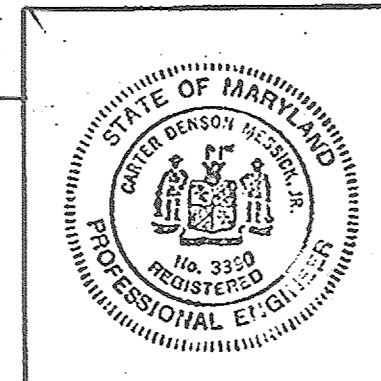
DATE	
BY	
NO.	
PLAN	REVISIONS
NO. OF WAY CHECKED	NO. OF WAY CHECKED
NO. OF WAY CHECKED	NO. OF WAY CHECKED



Note:
5' Bituminous Concrete Base Course
1 1/2' Bituminous Concrete Surface Course
This surface type to be constructed in accordance with the Howard County Road Construction Code and specifications, Div. D114 Page 165d



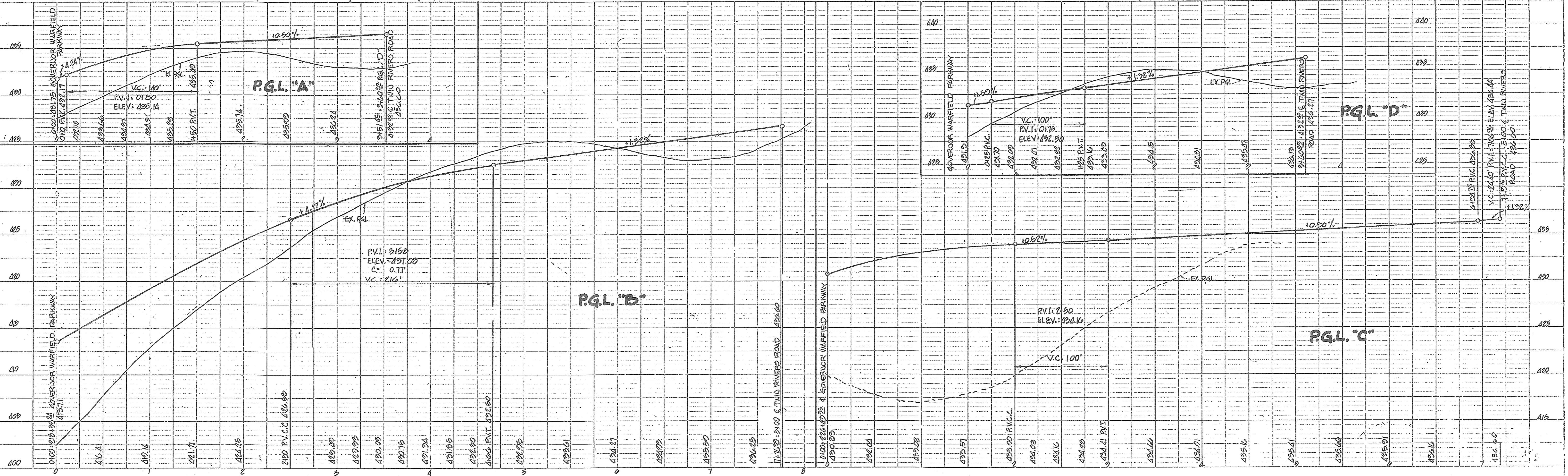
C.D. MESSICK JR. & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
21 WEST STREET ANNAPOLIS, MARYLAND
DATE: 6/23/66
C.D. MESSICK JR. P.E. NO. 3390



APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: 6/23/66

DESCRIPTION	BY	MARK	DATE
REVISIONS			
SECTION I TWIN RIVERS ROAD STA. 0+00 TO STA. 5+00			
COLUMBIA ROAD PLAN			
SCALE: AS SHOWN	DATE: 9-22-66		
DESIGN BY: J.C.S.	TRACED BY: J.B.G.		
CHECKED BY: R.E.L.	DRAWING NO.: 19 of 29		

DATE	
BY	
NO.	
PROFILE	REVISIONS
NO. OF WAY CHECKED	NO. OF WAY CHECKED
NO. OF WAY CHECKED	NO. OF WAY CHECKED



RP19A #55

PLATE 1, PLAN-PROFILE
HERCULENE ENGINEERING & DESIGN CO.

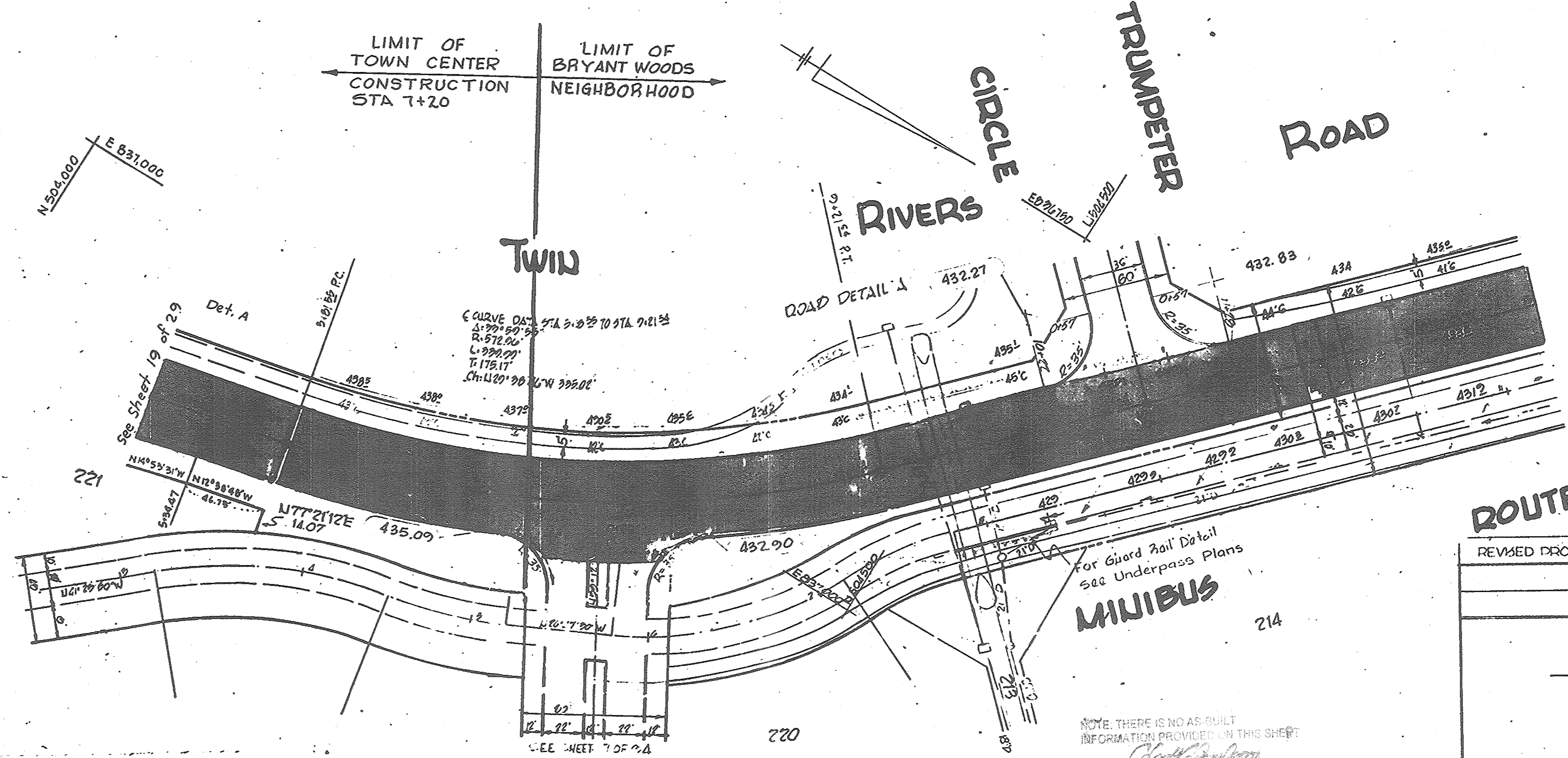
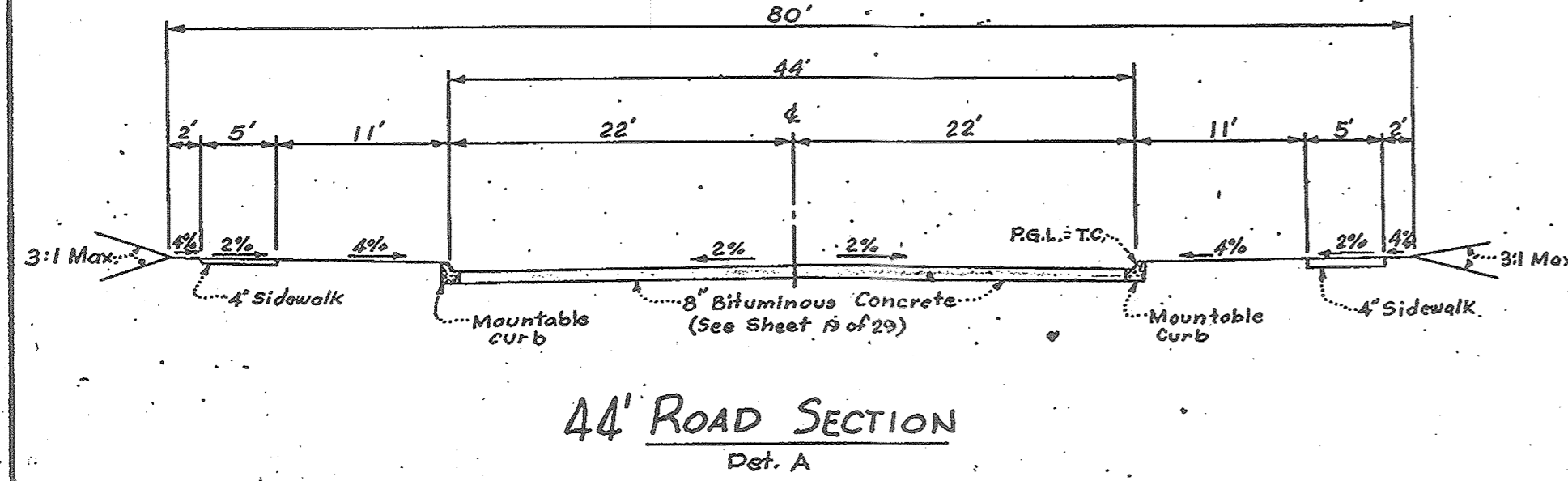
F-66-44
F-66-44

DATE	BY
JUL 26	J.D. GARY
NO.	NO.
PLANNING	PLANNING
DESIGNED	DESIGNED
CHECKED	CHECKED
DATE	DATE

DATE	BY
JUL 26	R.E. J.C.S.
NO.	NO.
PROFILE	PROFILE
DESIGNED	DESIGNED
CHECKED	CHECKED
DATE	DATE

Design Speed - TWIN RIVERS ROAD 30 M.P.H.

Stopping Sight Distance - 200 ft.



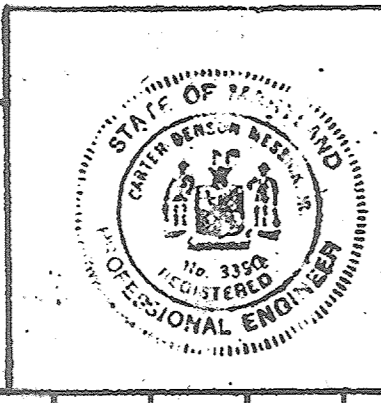
APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1967

ROUTE

REVISIONS	DESCRIPTION	BY	MARK	DATE
6-1-66	REVISED PROFILE GRADE	ARS		6-1-66
SECTION I TWIN RIVERS ROAD STA. 5+00 TO STA. 13+00				
COLUMBIA				
ROAD PLAN				
SCALE: AS SHOWN				DATE: 5-21-66
DESIGN BY: J.A.S. J.C.S.				TRACED BY: J.B.G.
CHECKED BY: R.E.L.				DRAWING NO. 20 OF 29

C.D. MESSICK JR. & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
21 WEST STREET ANNAPOLIS, MARYLAND

C.D. Messick Jr.
C.D. MESSICK JR. P.E. NO. 3390

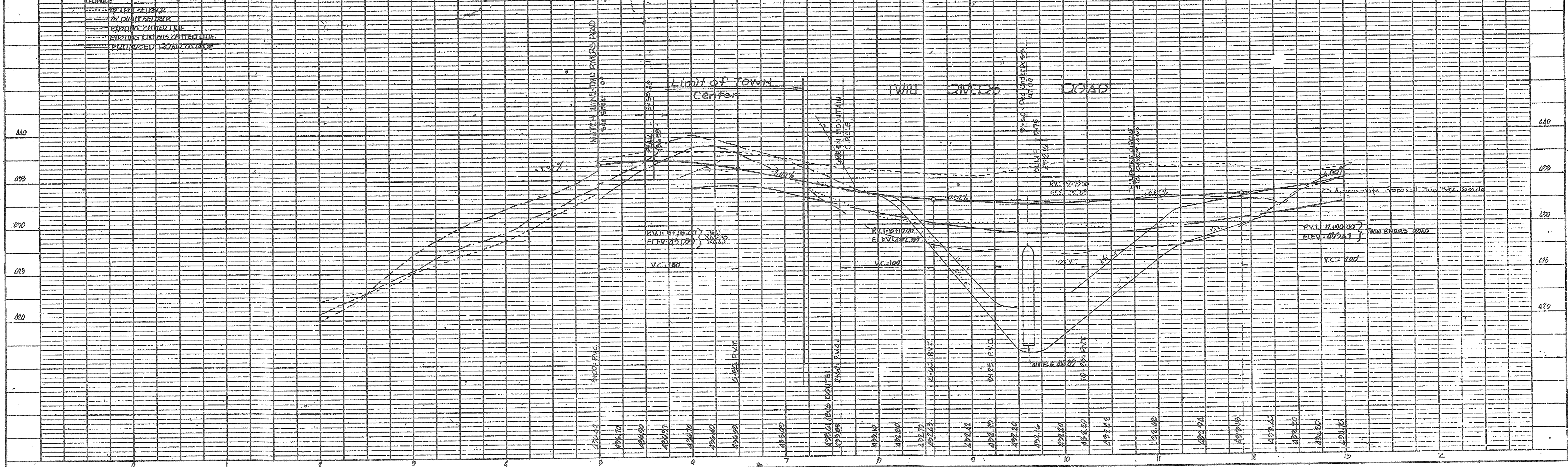


GREEN MOUNTAIN CIRCLE

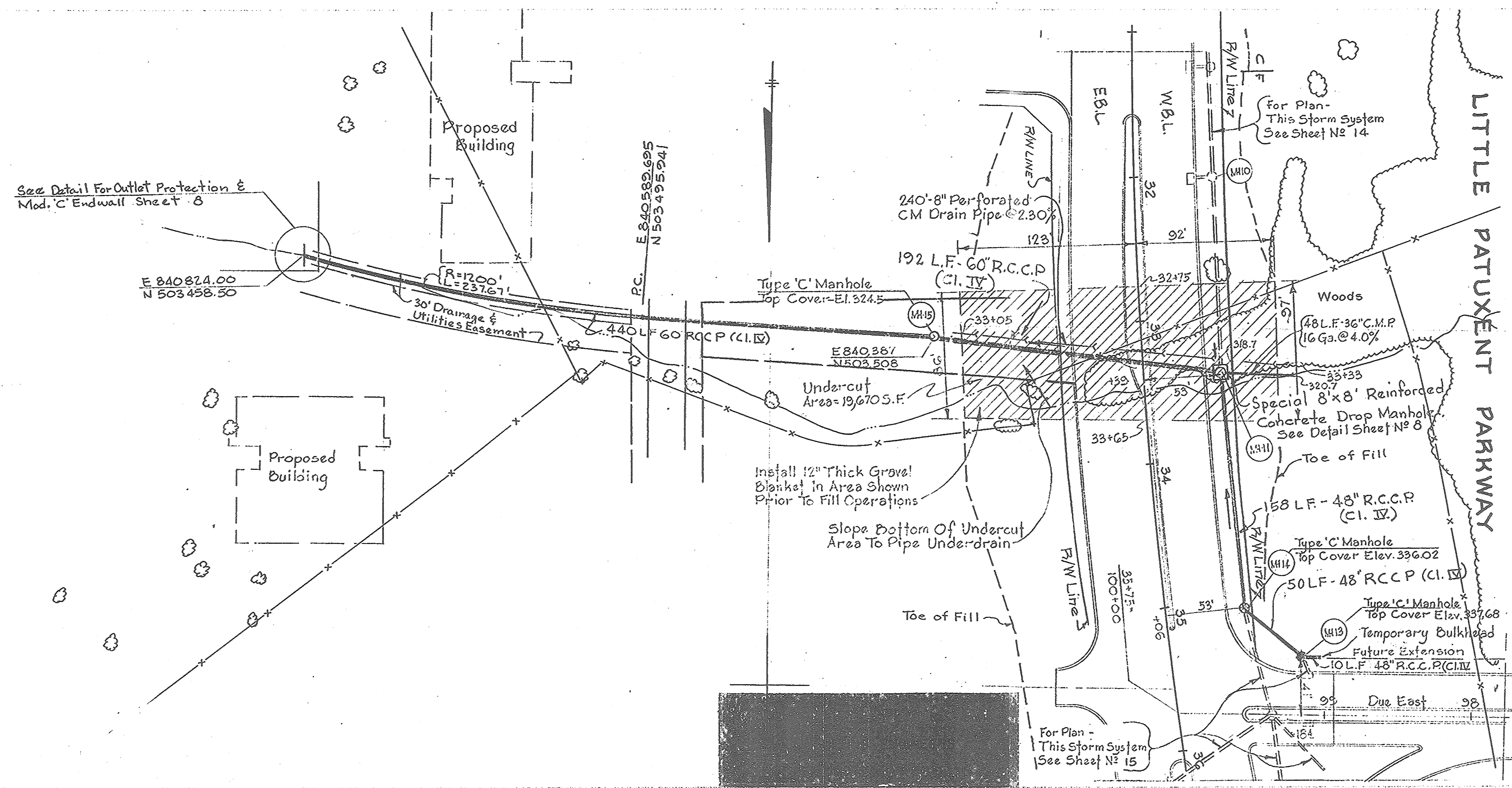
PLAN: 1"=50'
PROFILE: HOR: 1"=50'
VER: 1"=5'

NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET.
SCOTT CHARNOVITZ
REGISTERED PROFESSIONAL ENGINEER
Professional No. #11948, Exp. Date 10/22/18
AS-BUILT DATE: 6-16-2018

GENERAL REVISIONS: WHO 10-19-66

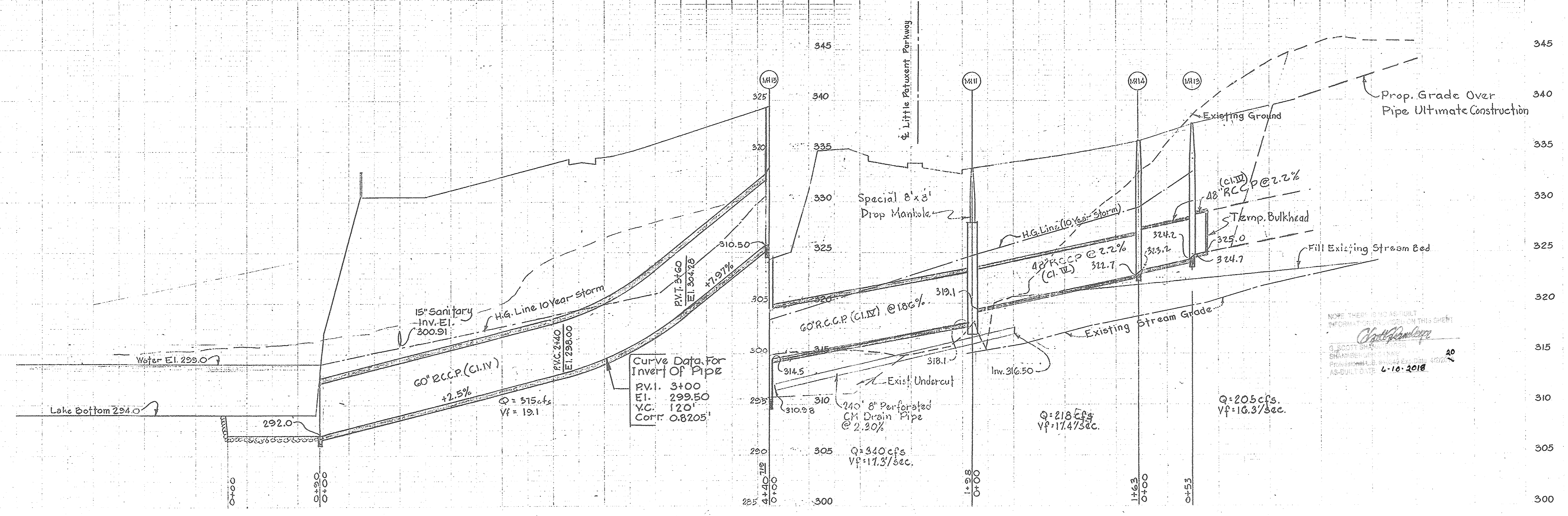


STORM DRAIN PROFILES
 Sta 31+ To Sta. 33+ See Sheet No 24
 Sta. 33+ To Sta. 36+ See Sheet No 25



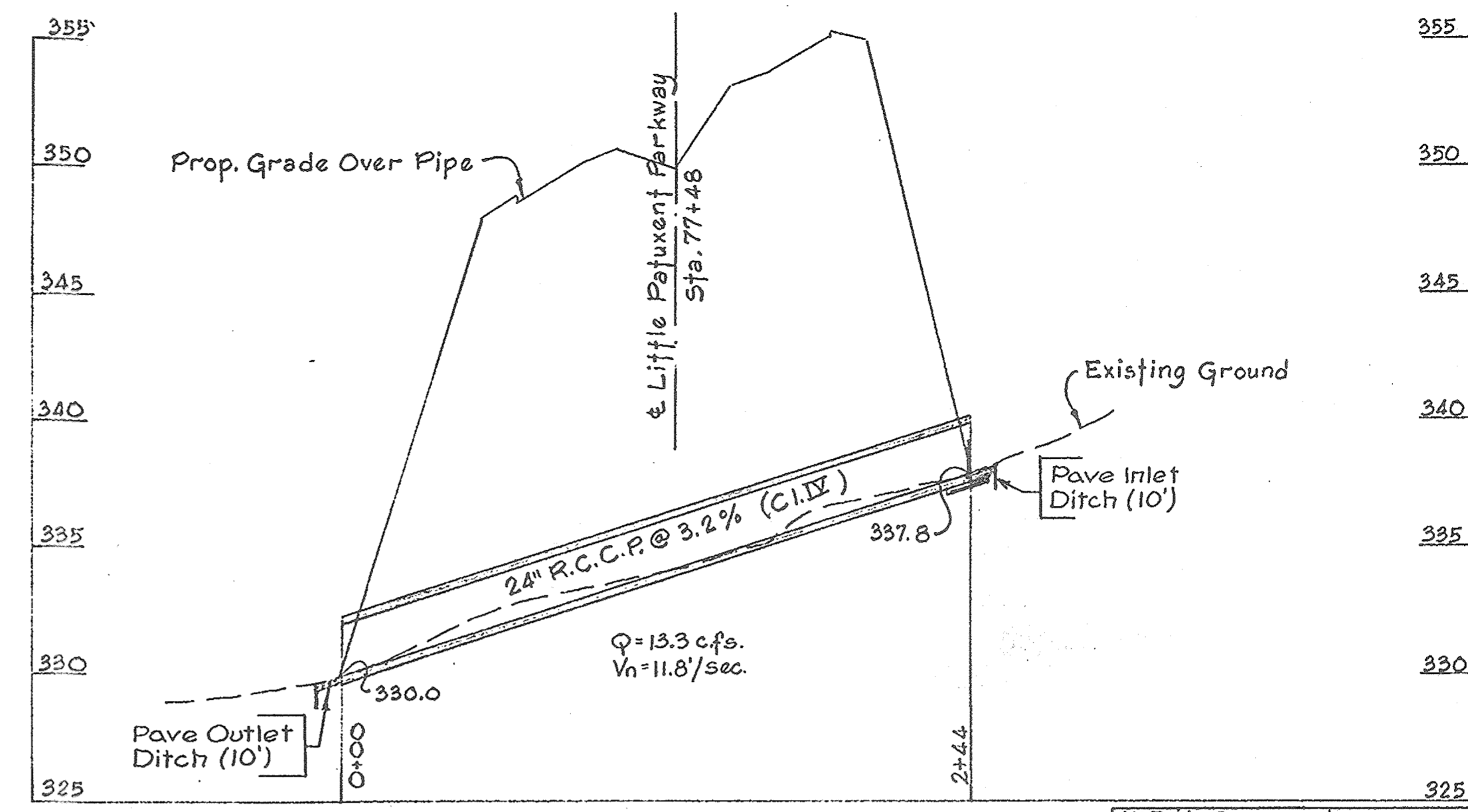
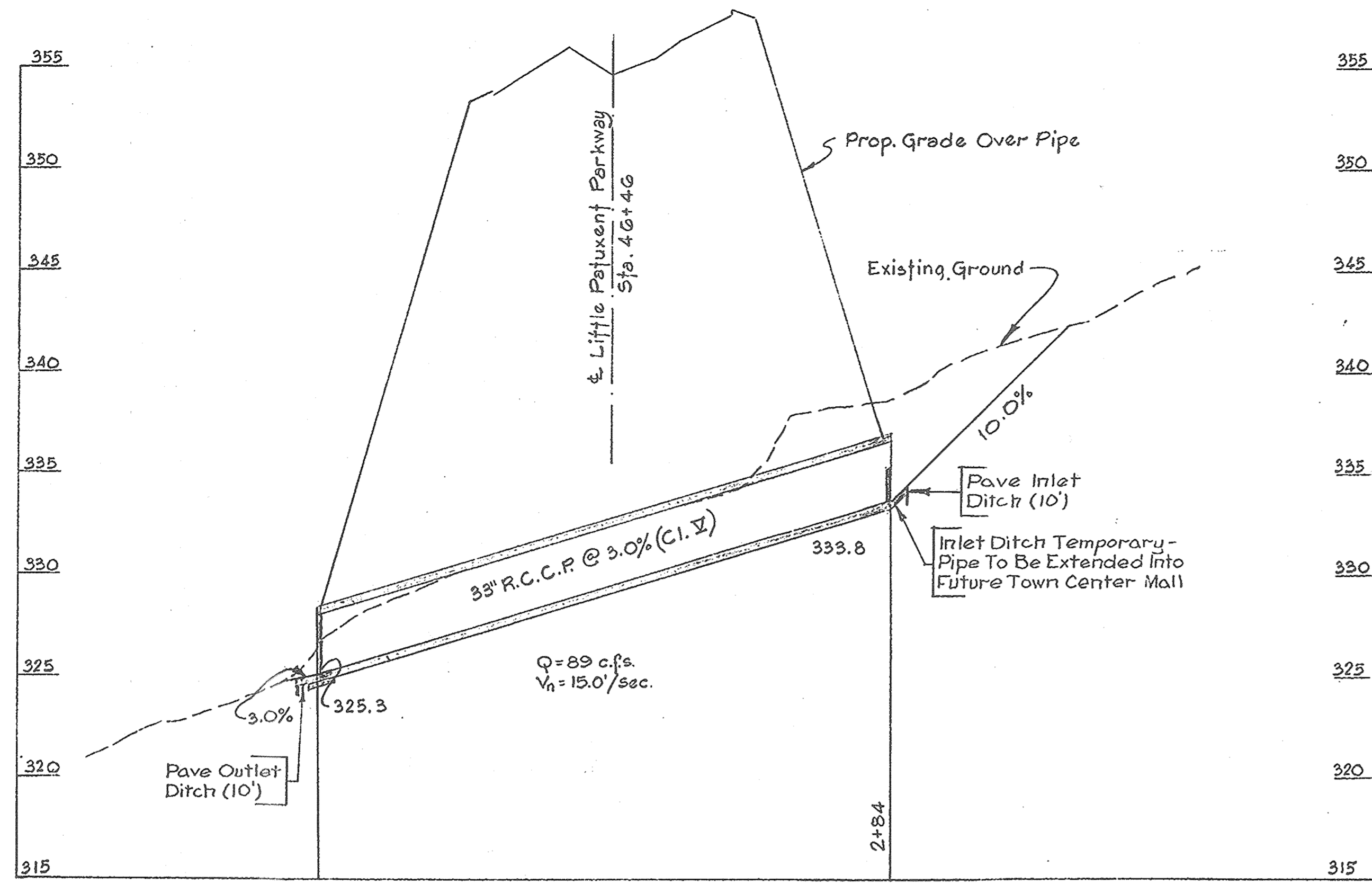
APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE: APR 21 1967

Revised Pipe Profile Between MH15 & Outlet	11/15/66
W.P.A. Comments	10/28/66
Added H.G. Line	10/19/66
Added Drainage	9/22/66
Subdrain Location	7/15/66
Drainage	6/29/66



455

F-66-44



APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE APR 2 1999
[Signature]

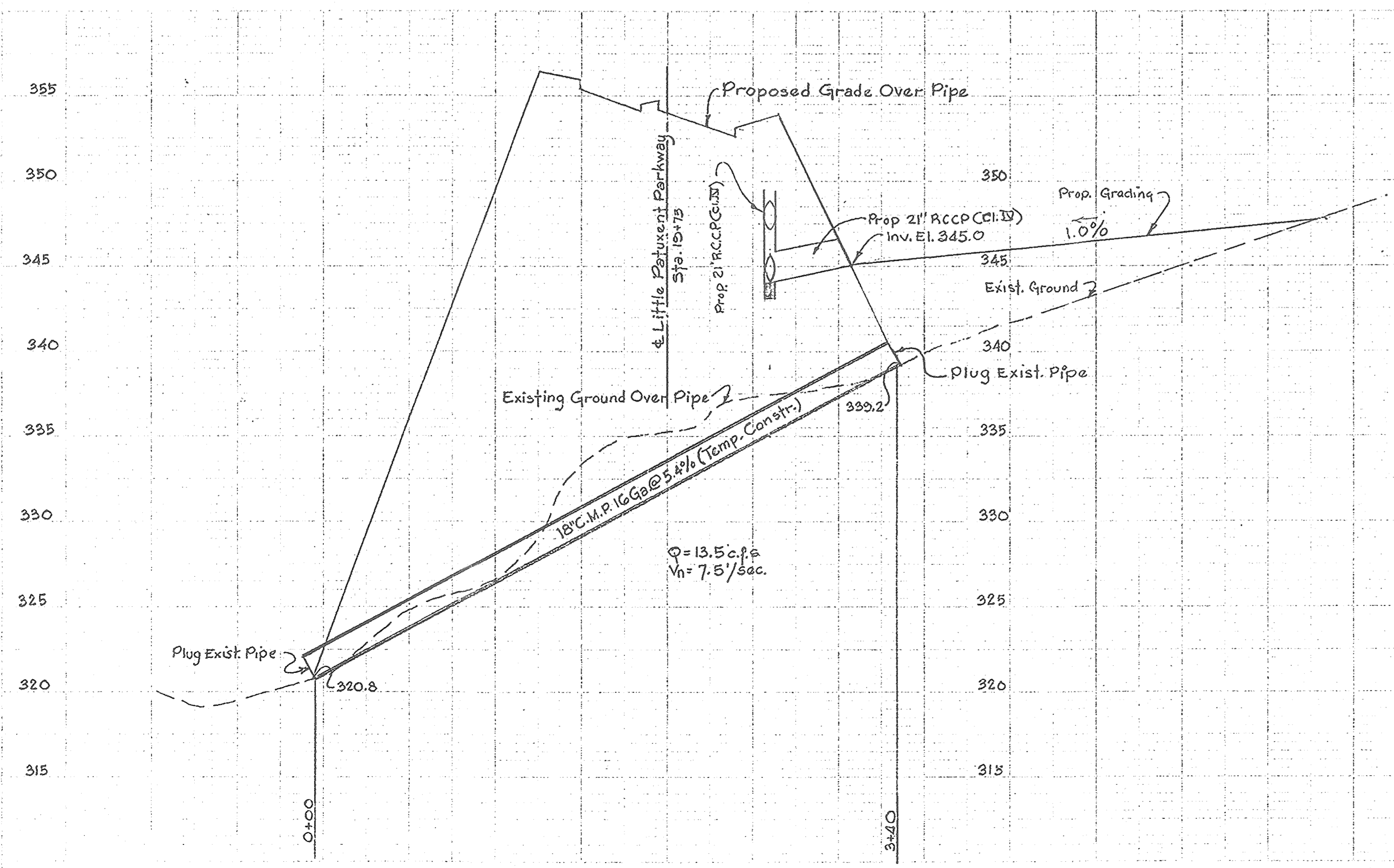
See Detail Sheet 7 For:
 1. Typical Section Of Inlet/Outlet Ditch
 2. Paving Details For Ditches

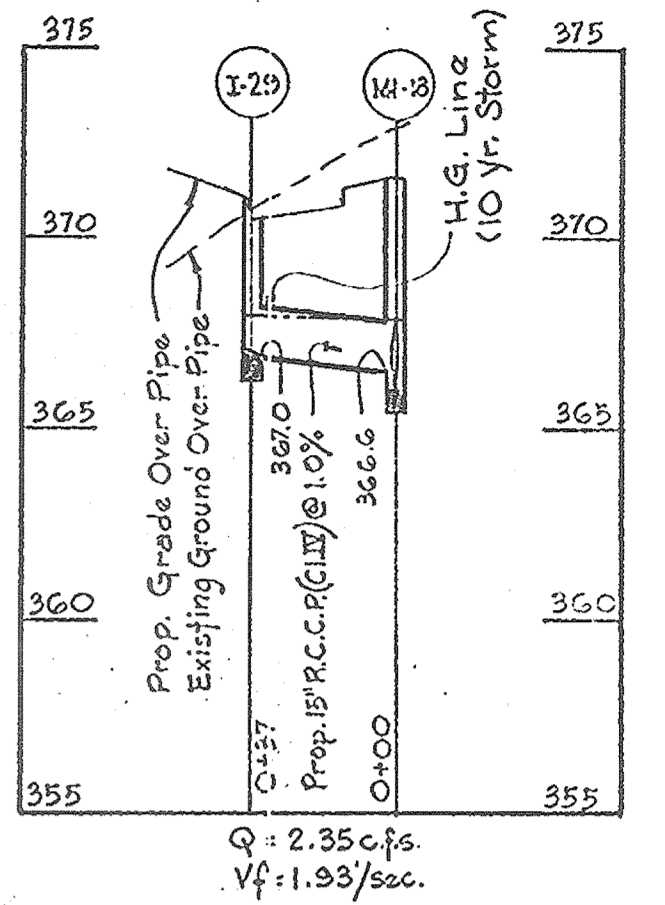
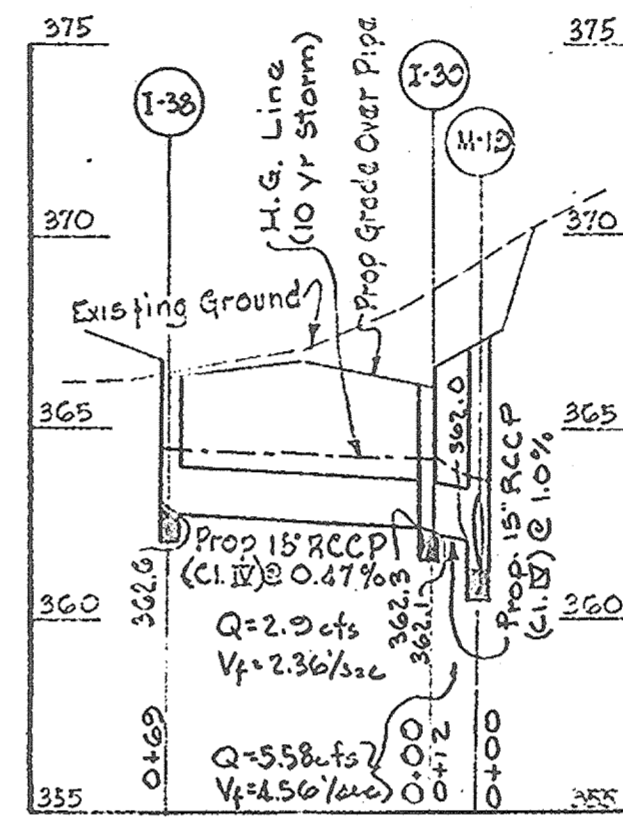
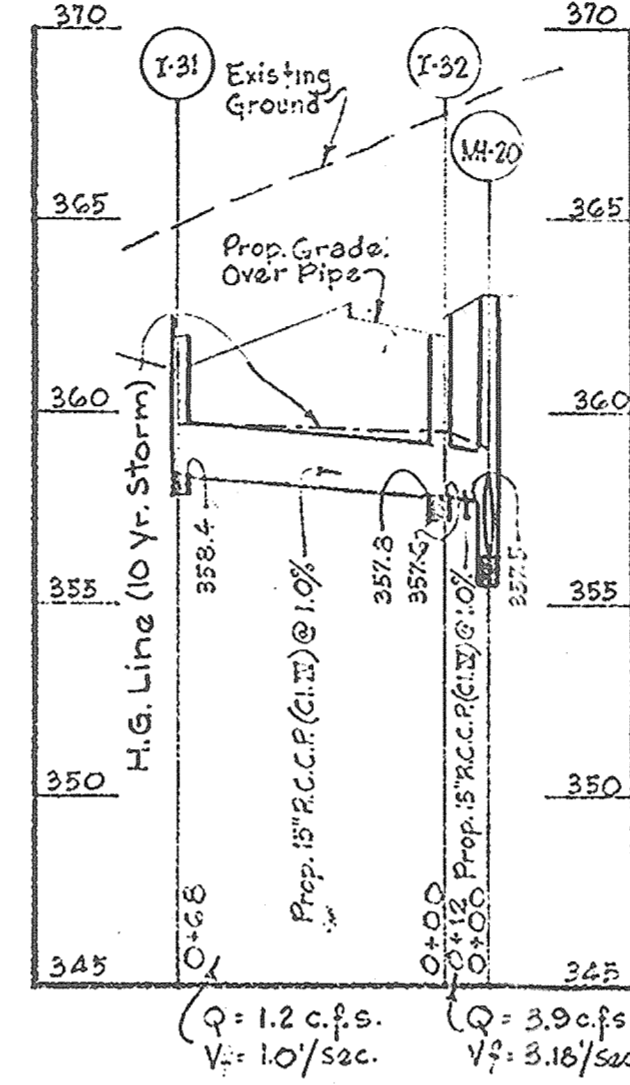
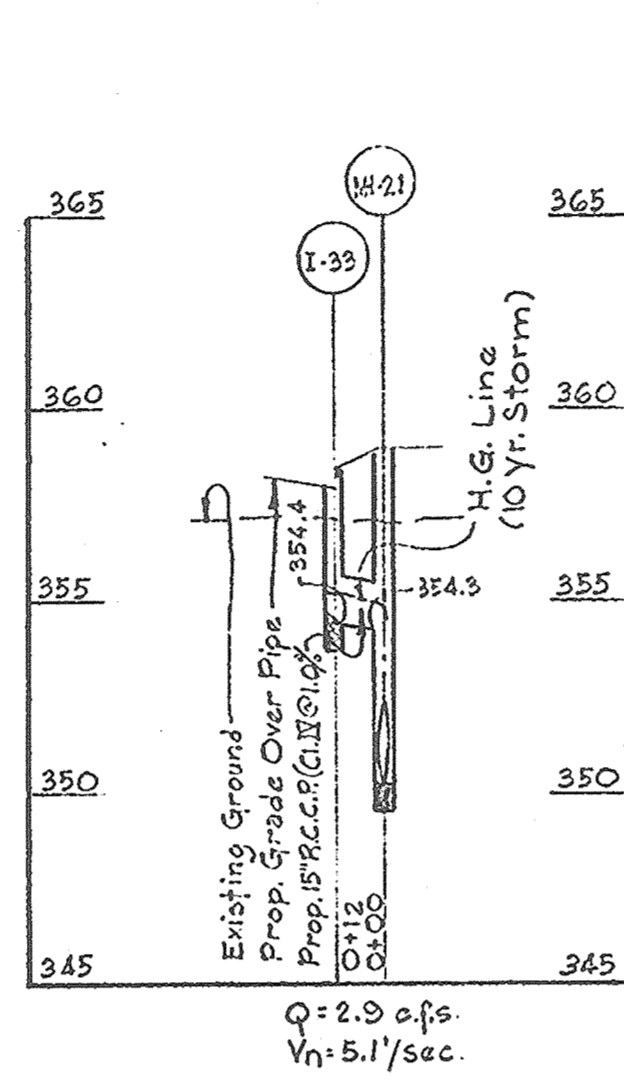
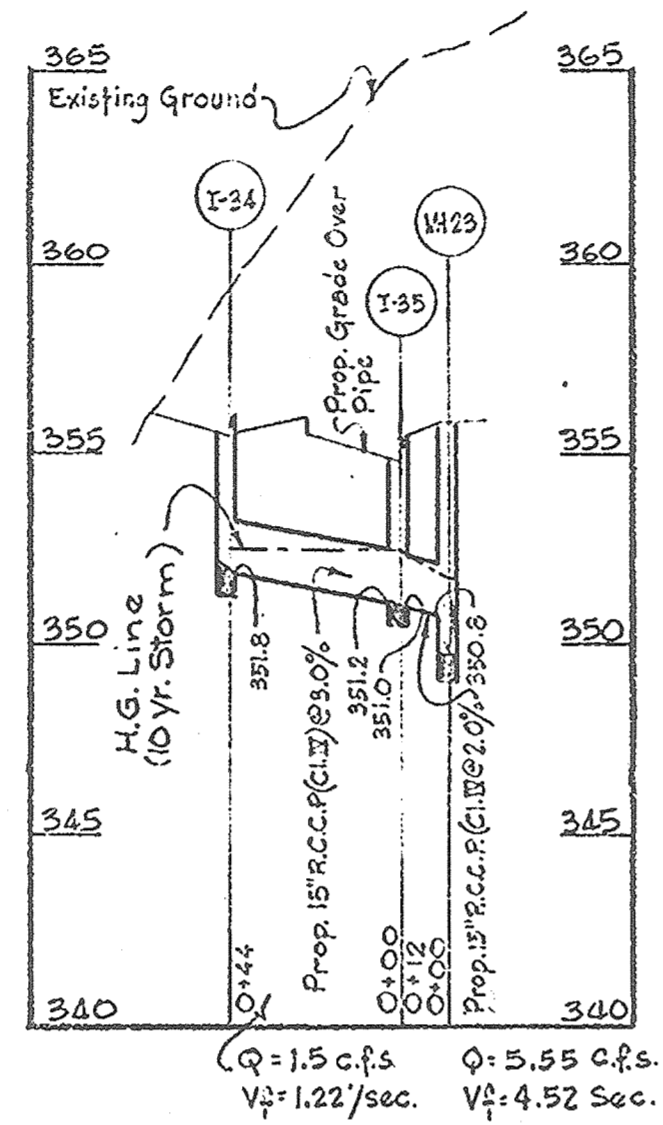
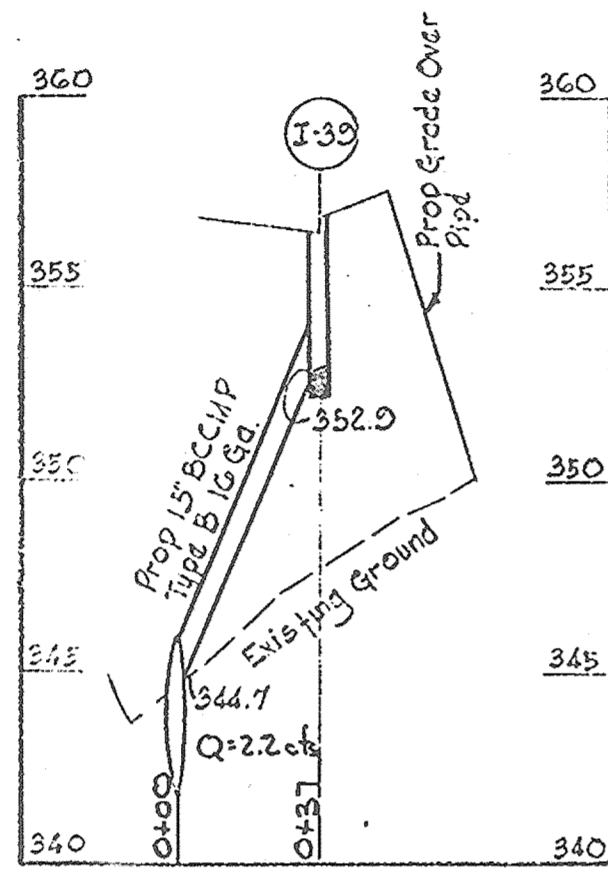
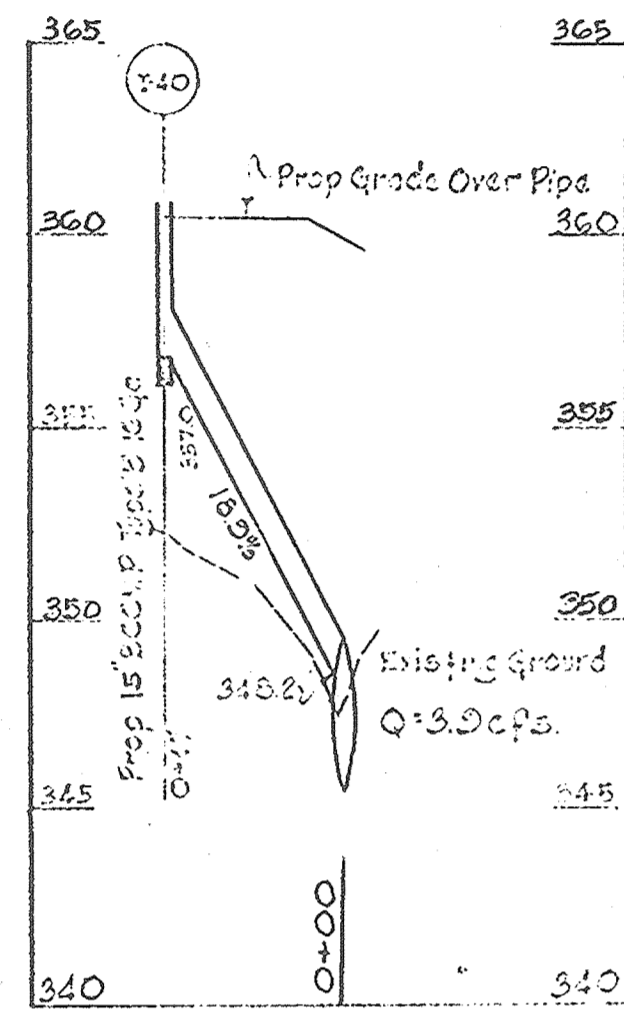
WR#A Comments 10-28-66

NOTE: THERE IS NO AS BUILT INFORMATION PROVIDED ON THIS SHEET

[Signature]
 G. SCOTT SHANKERBERG
 S.E. SUGGERSON LANE
 Professional Engineer No. 49727
 AS EXPIRES DATE 6-16-2018

LITTLE PATUXENT PARKWAY
STORM DRAIN PROFILE 55
COLUMBIA

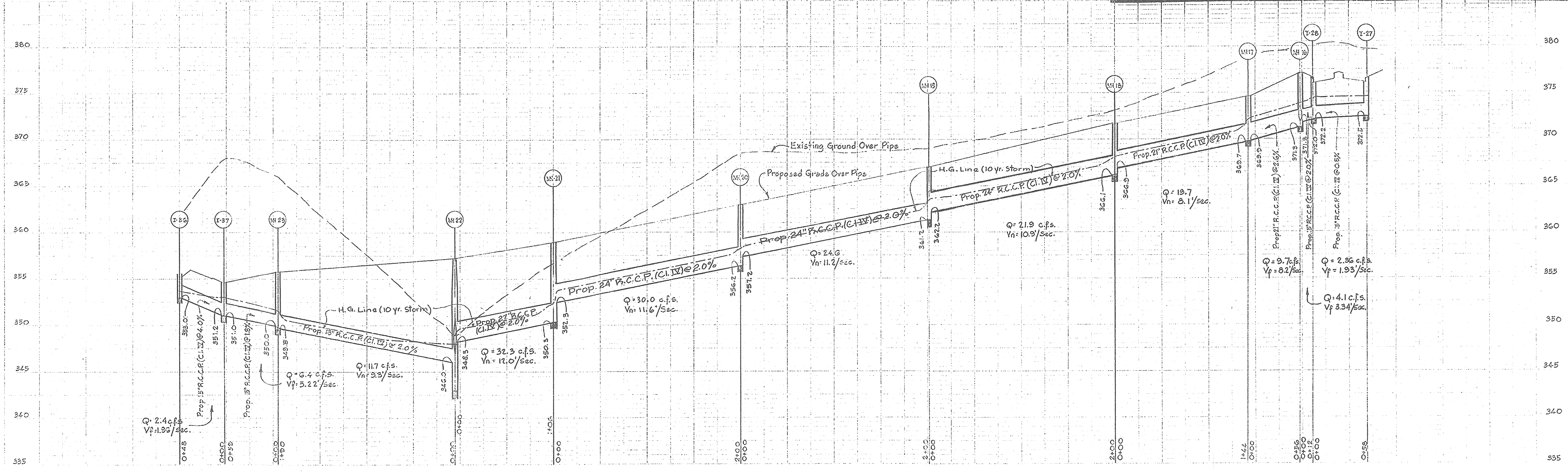


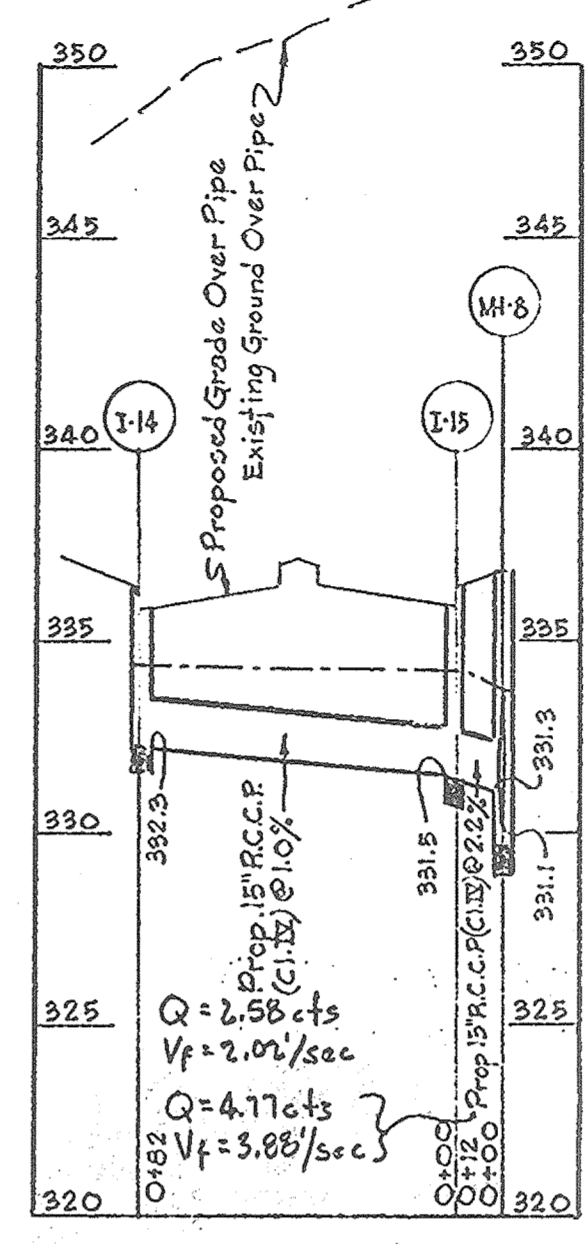
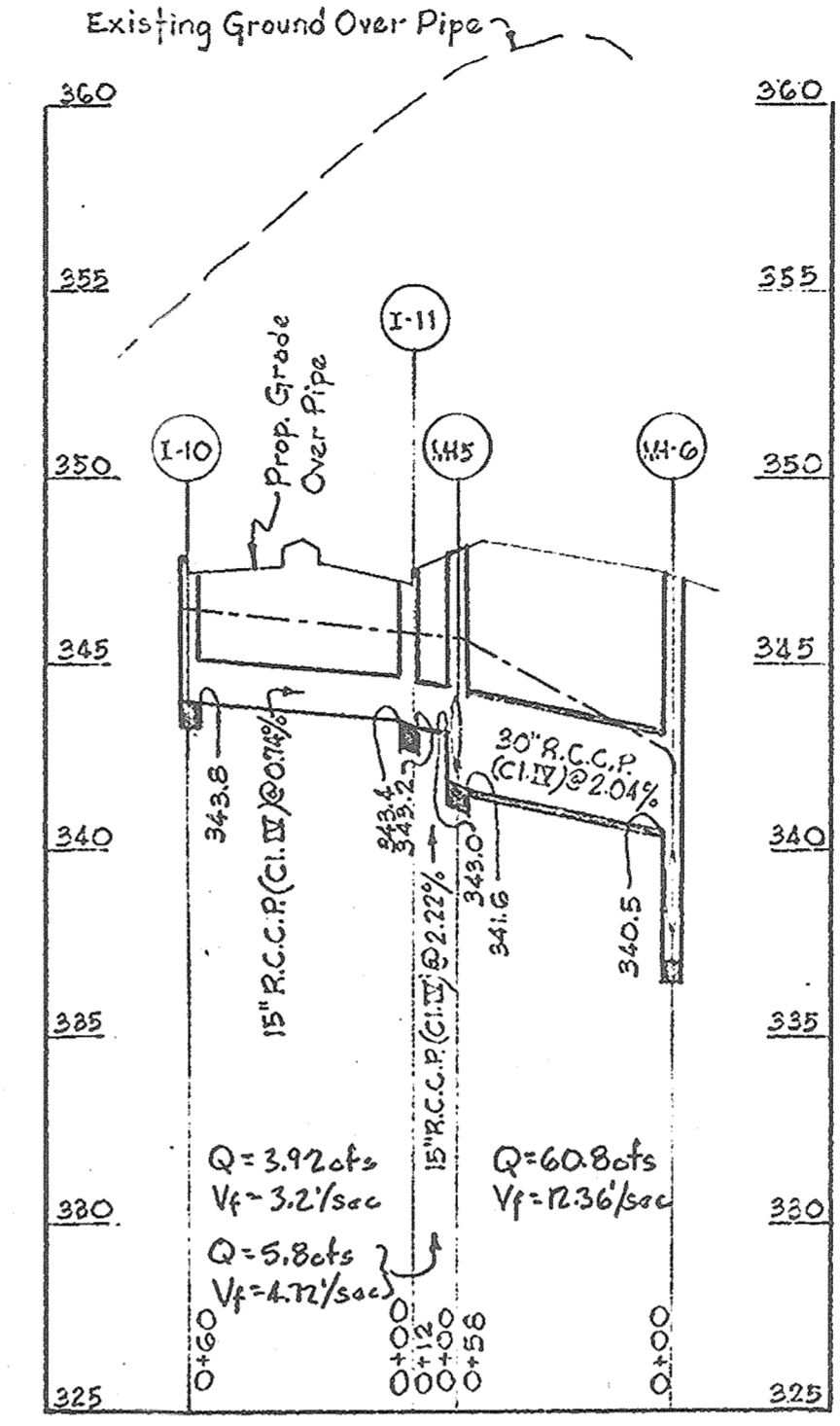
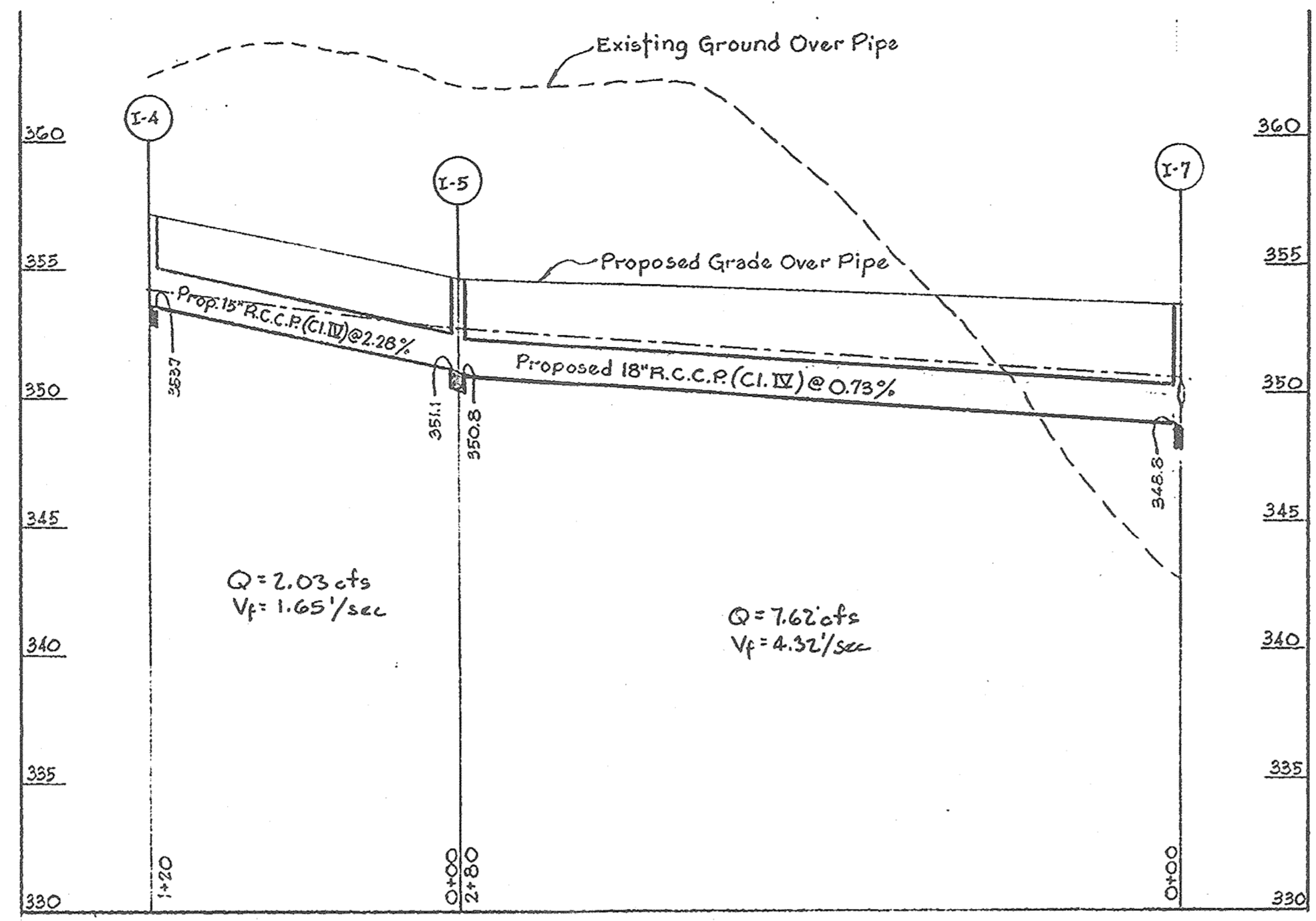
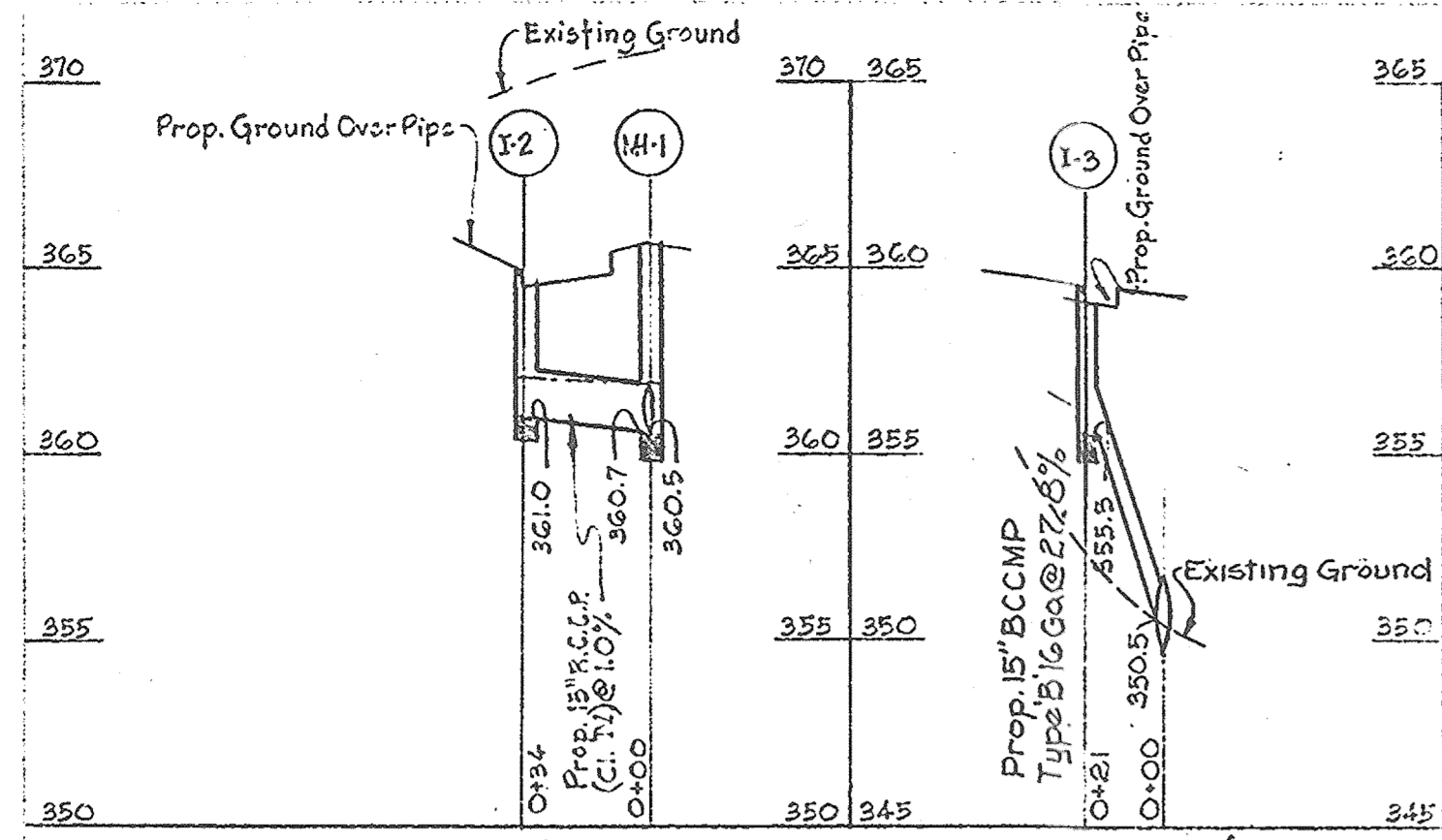


IF THERE IS NO AS-BUILT INFORMATION PROVIDED IN THIS SHEET
 CAPTIONED
 SHANAHAN & SONS
 PROFESSIONAL ENGINEERS
 LICENSE NO. 42227
 EXPIRES 10-2018

APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE APR 21 1967

W.P.A. Comments	Date
Added H.G. Line	10/28/66
	10/19/66

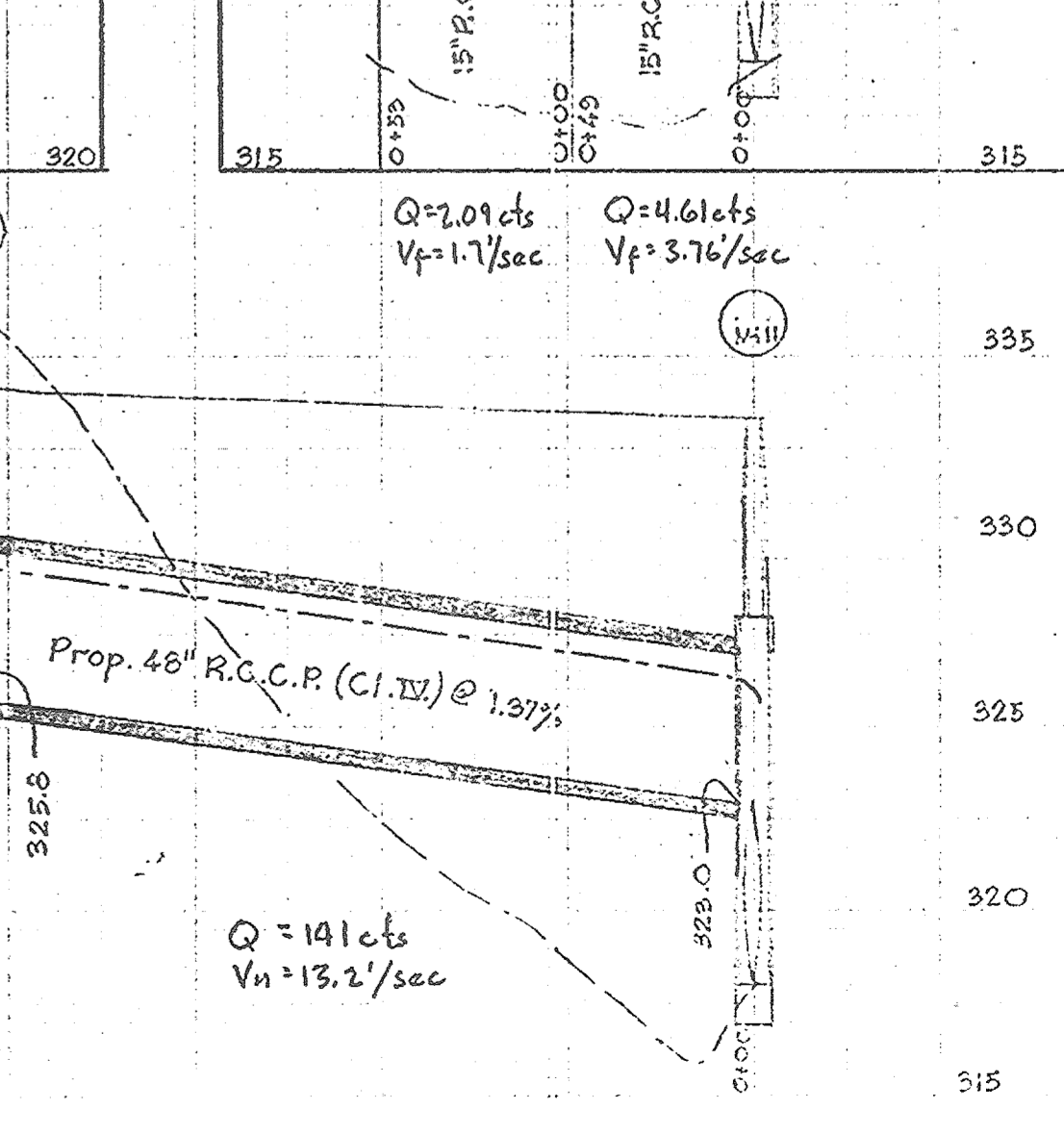
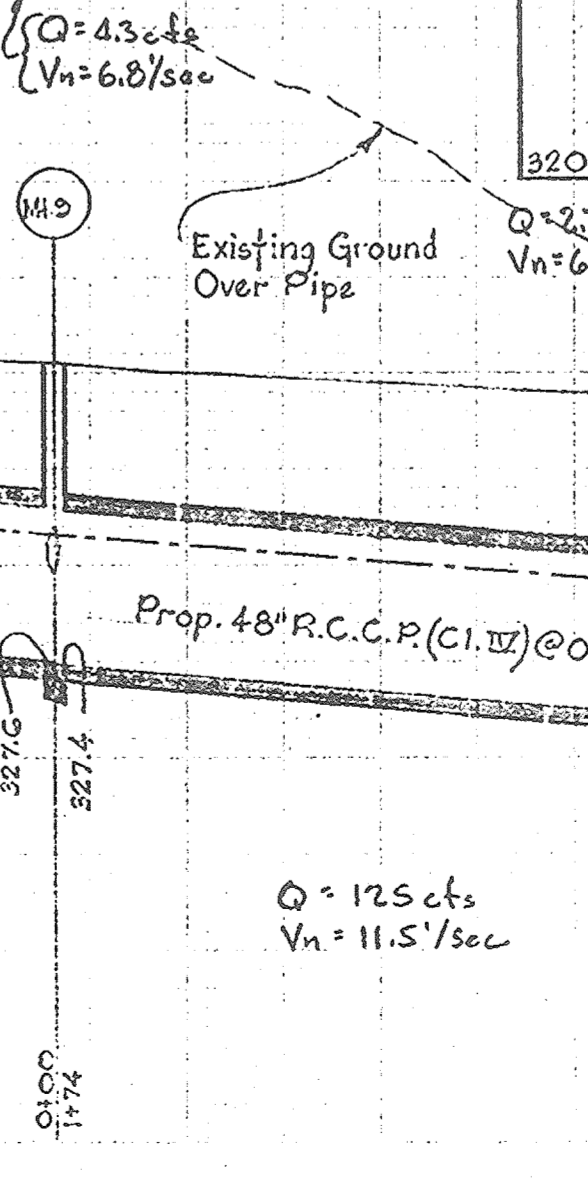
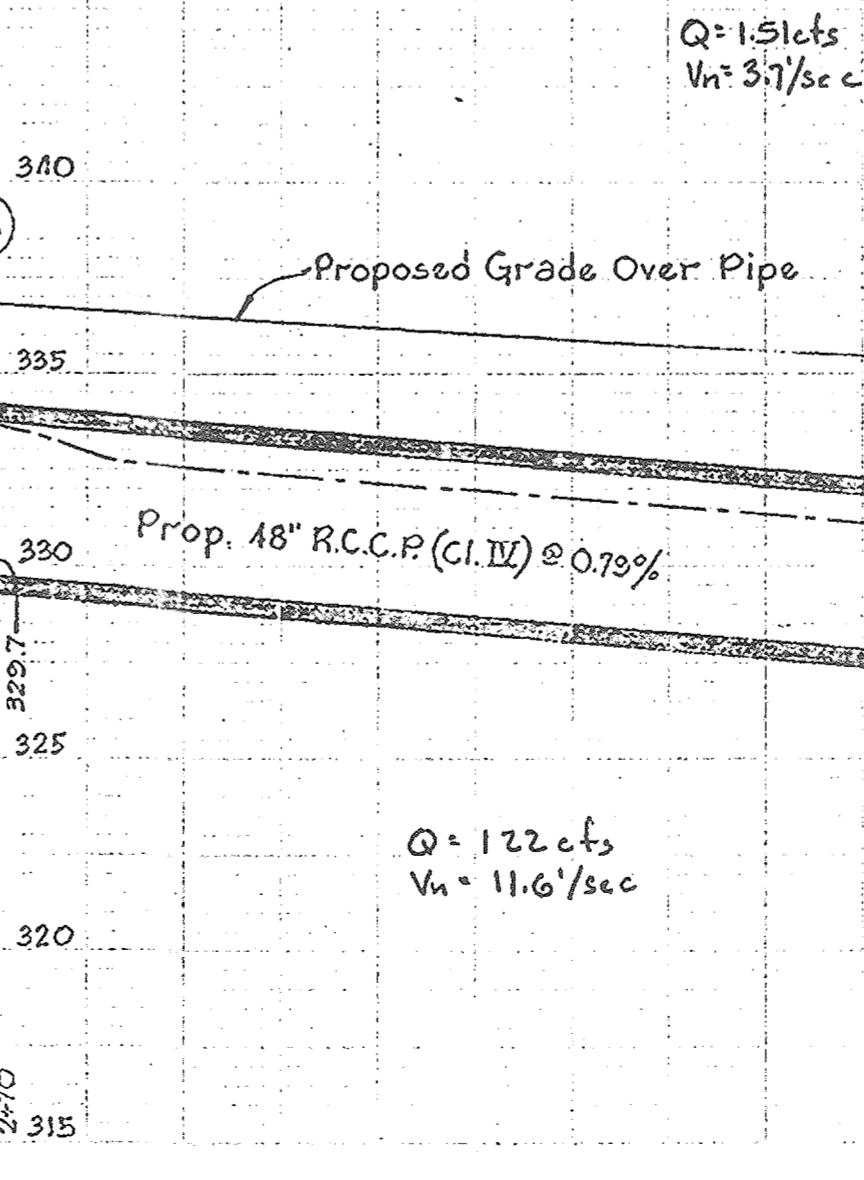
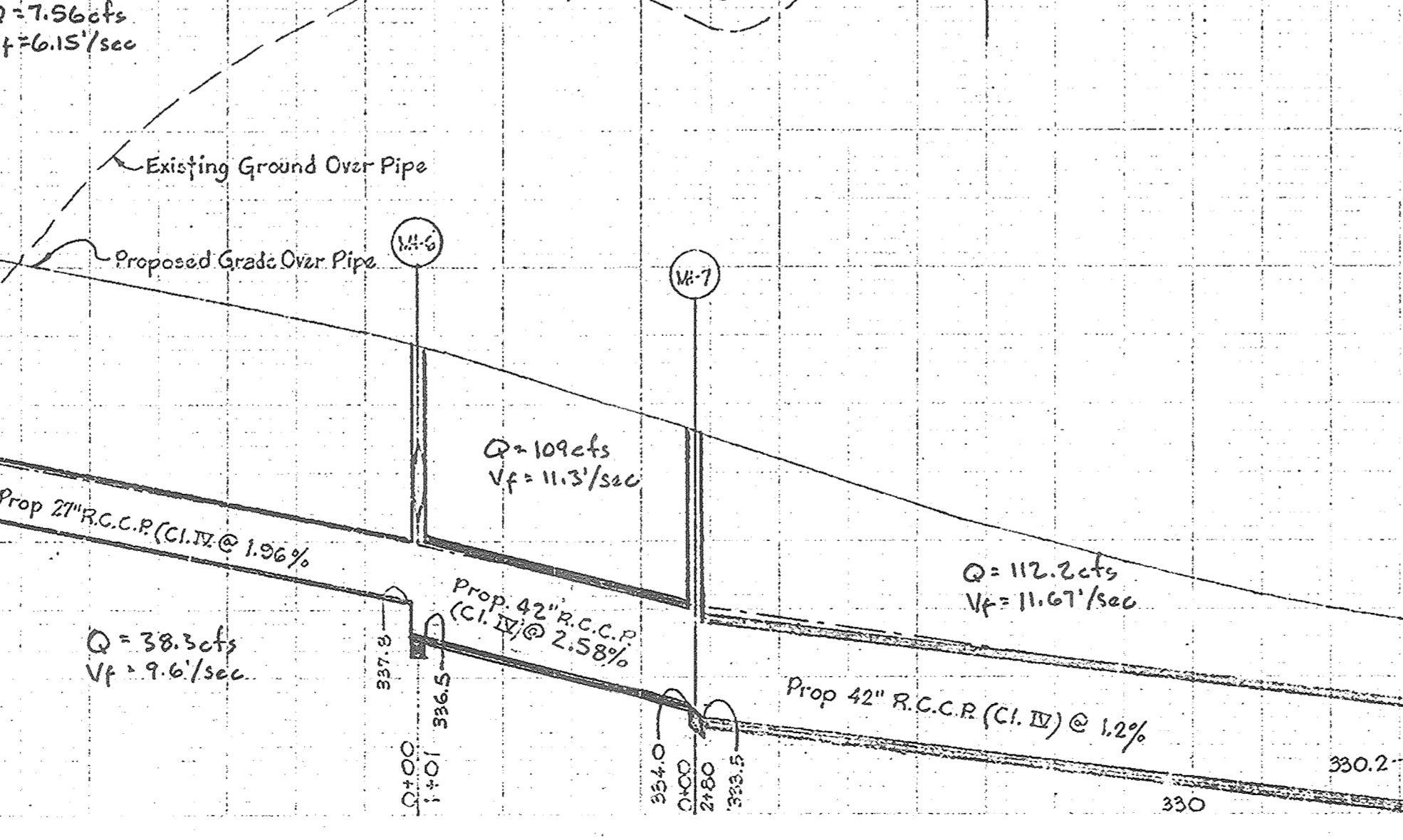
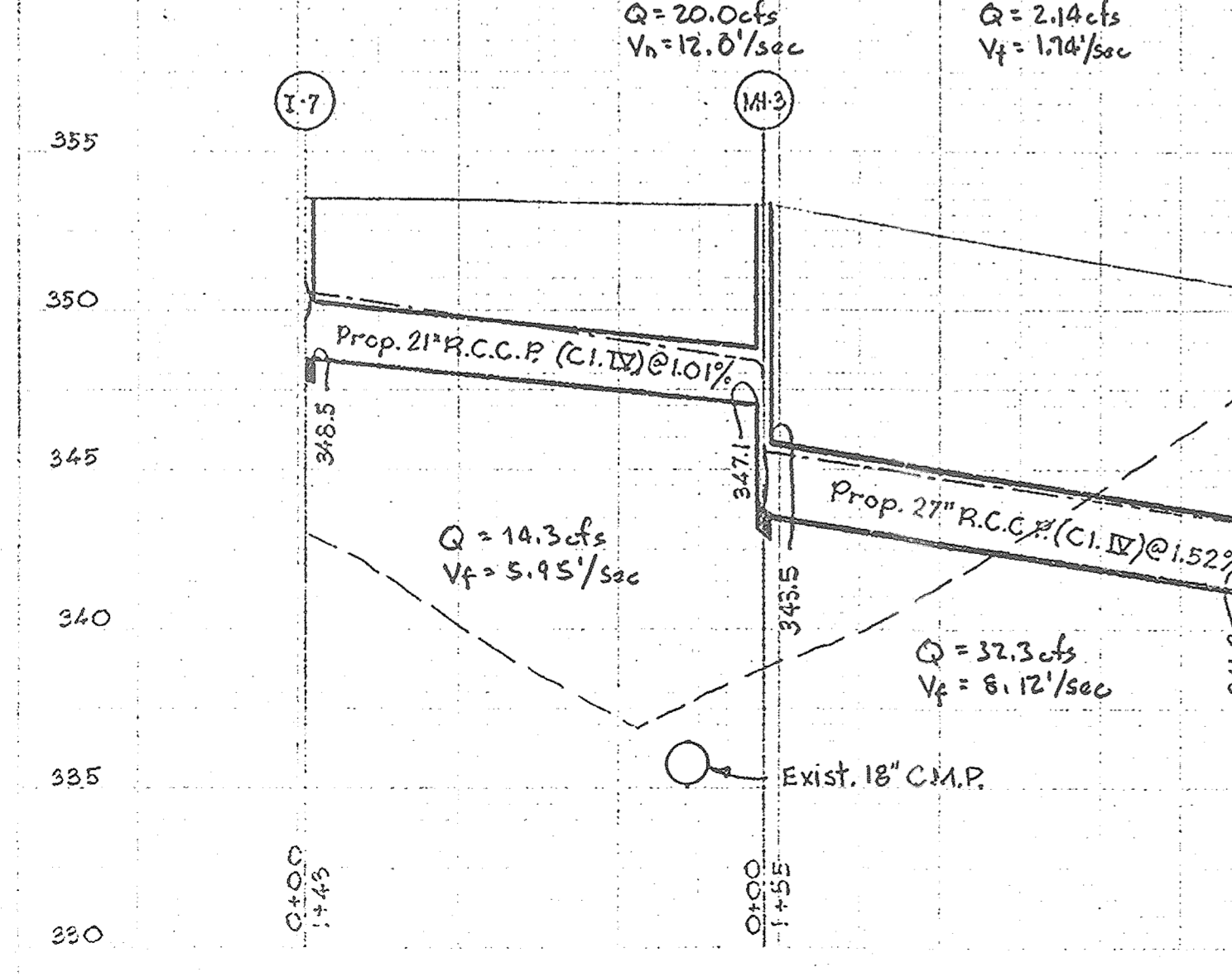
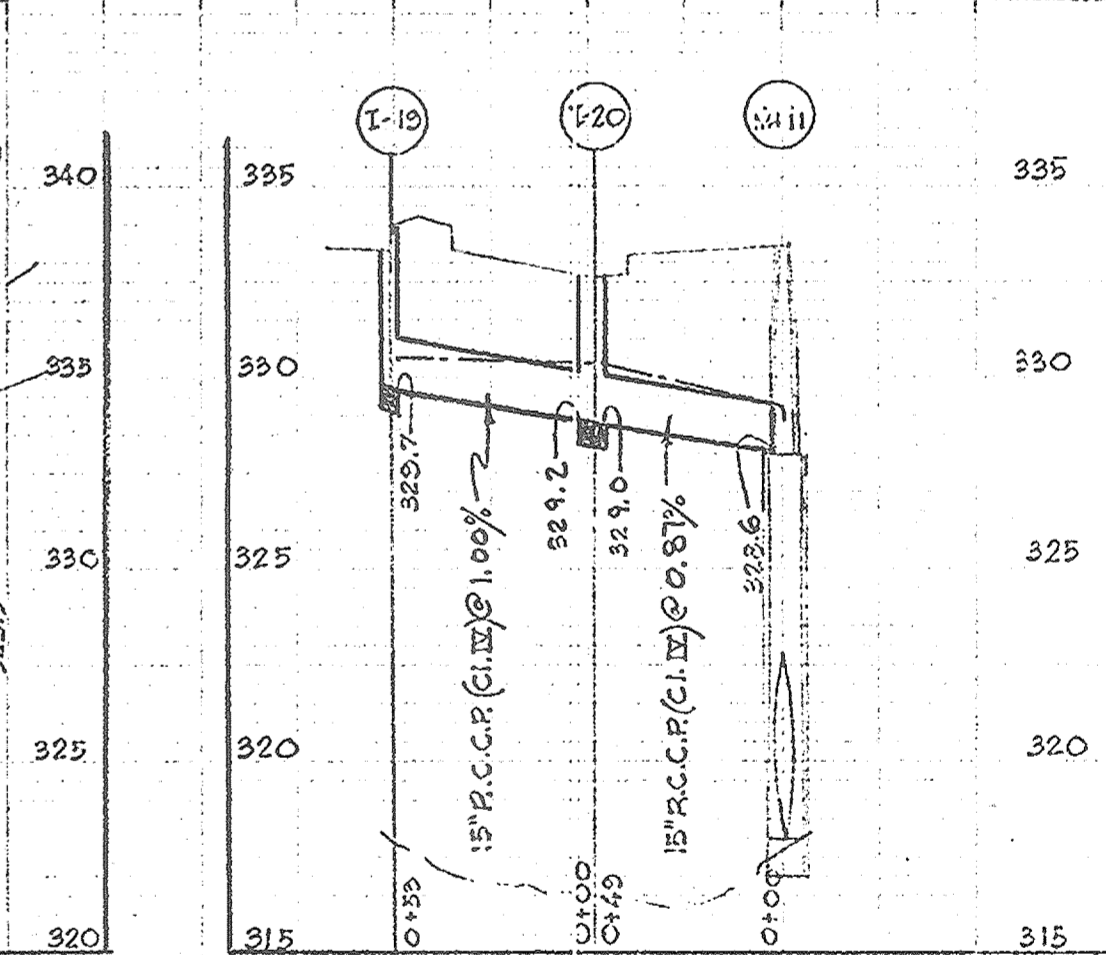
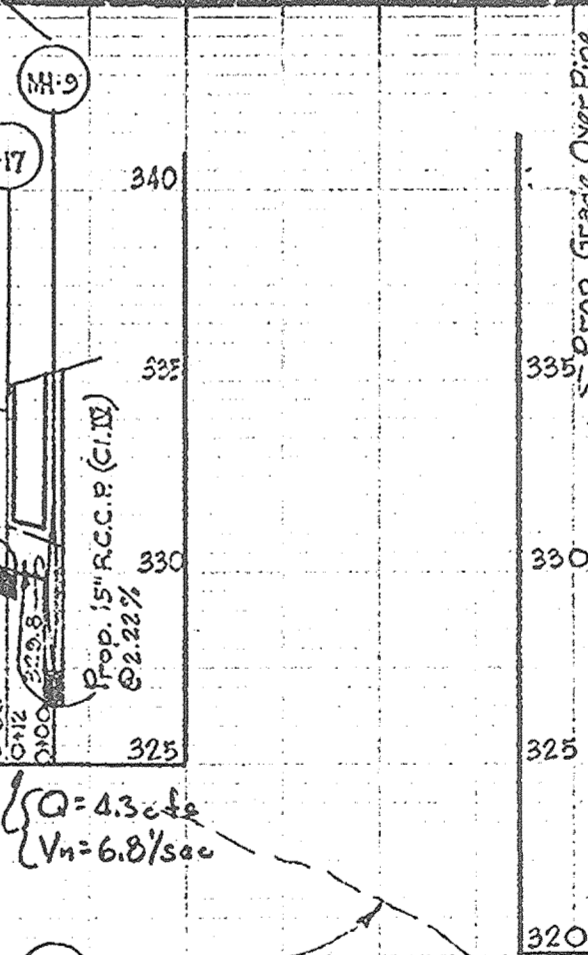
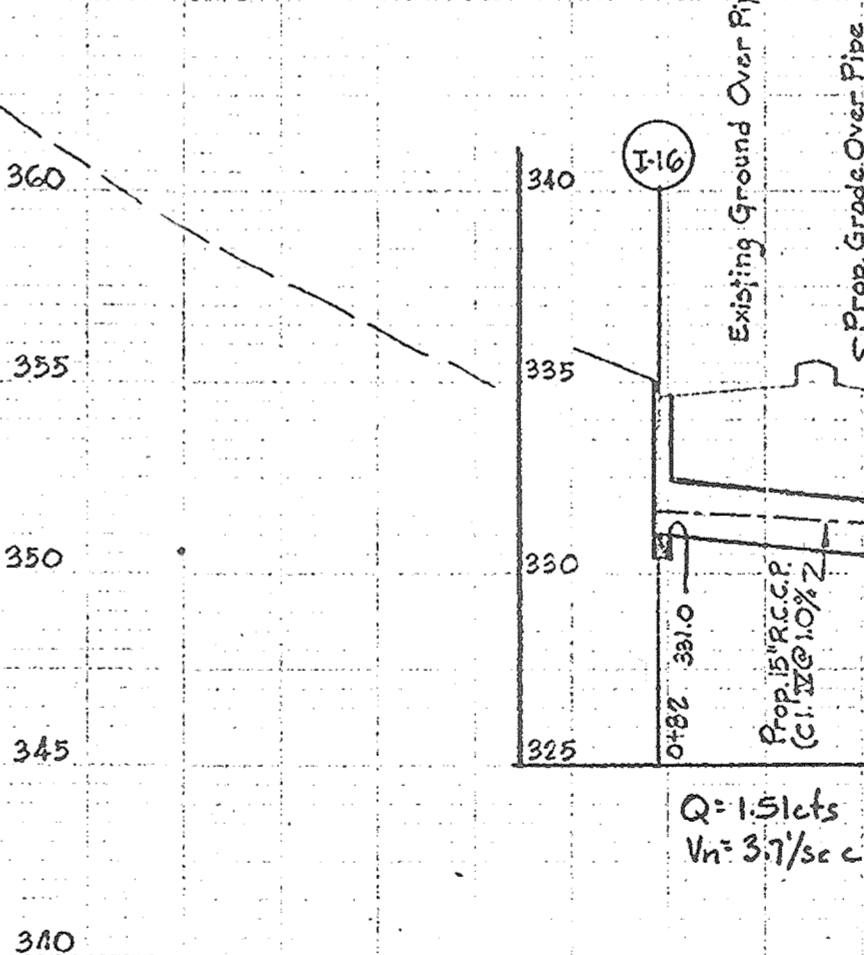
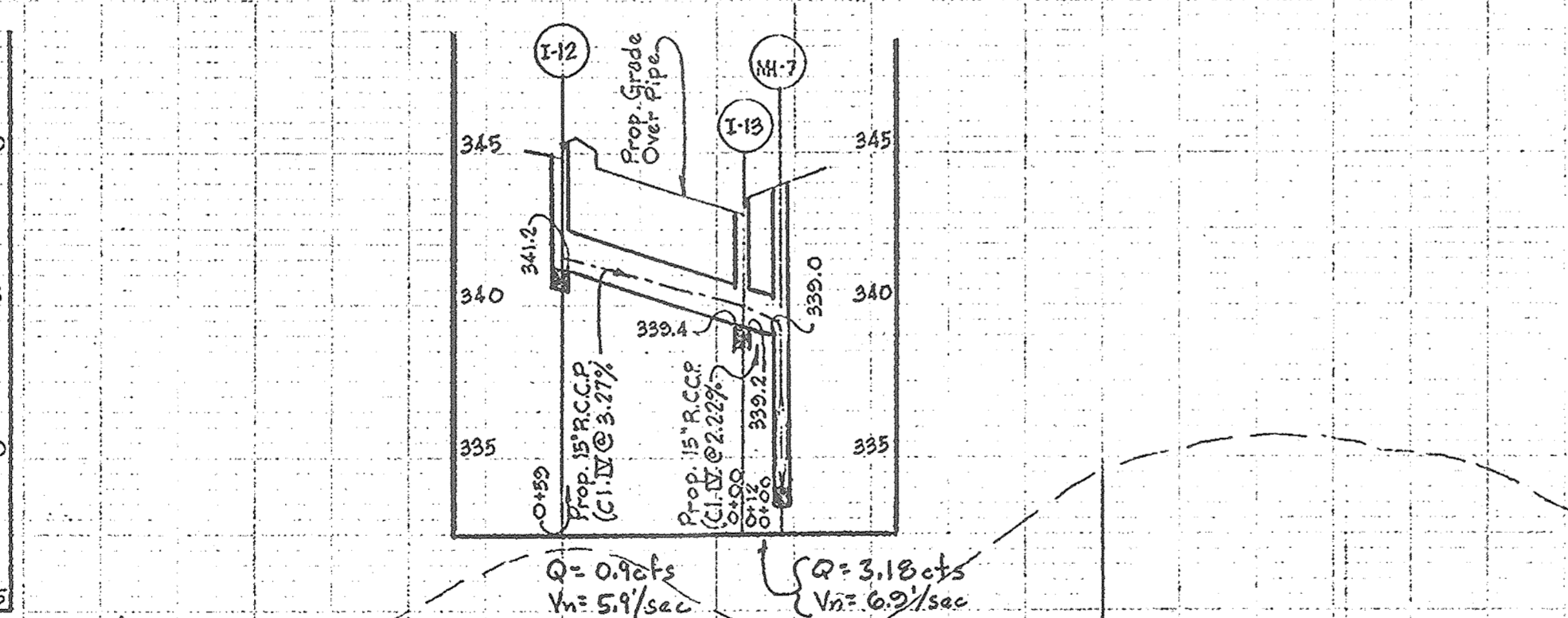
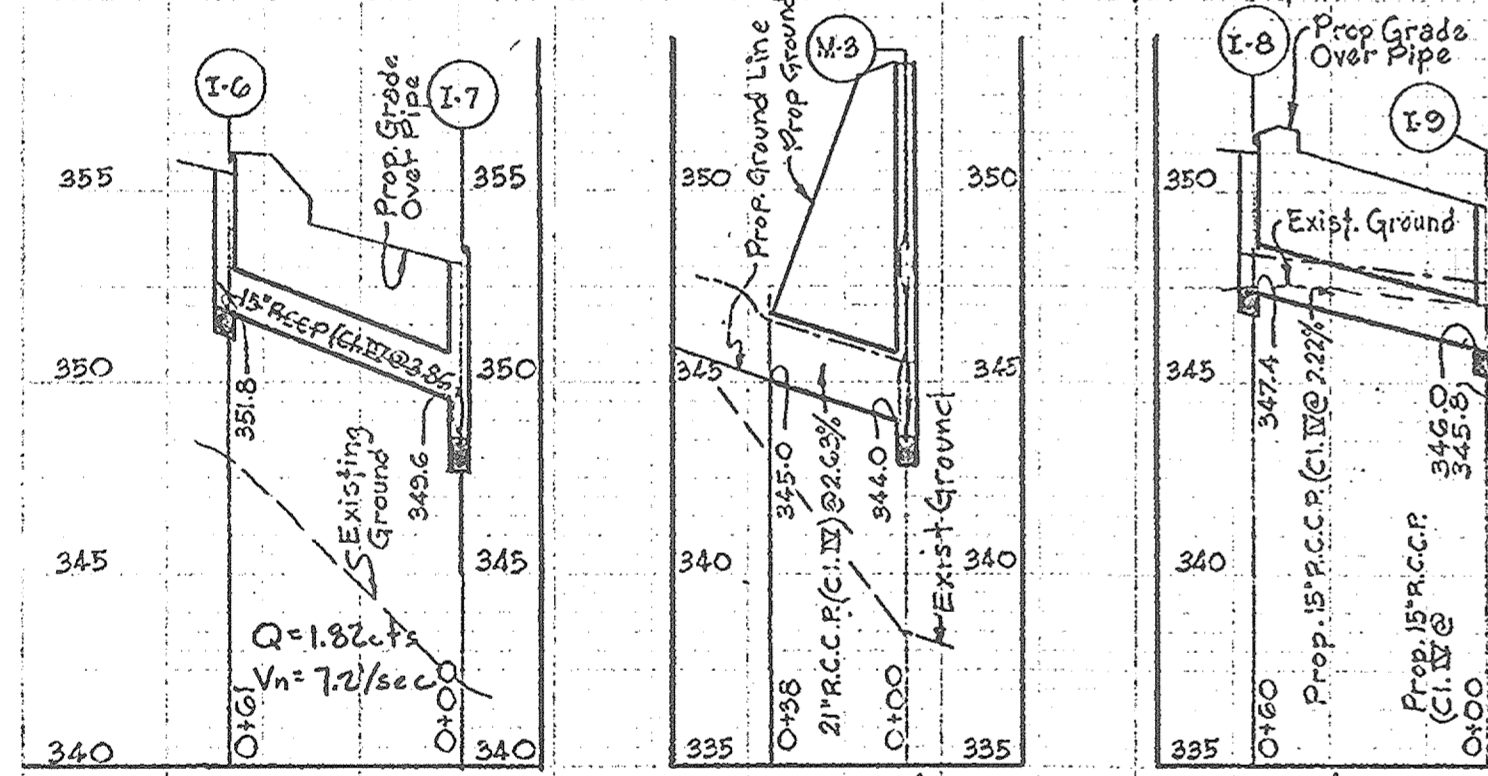
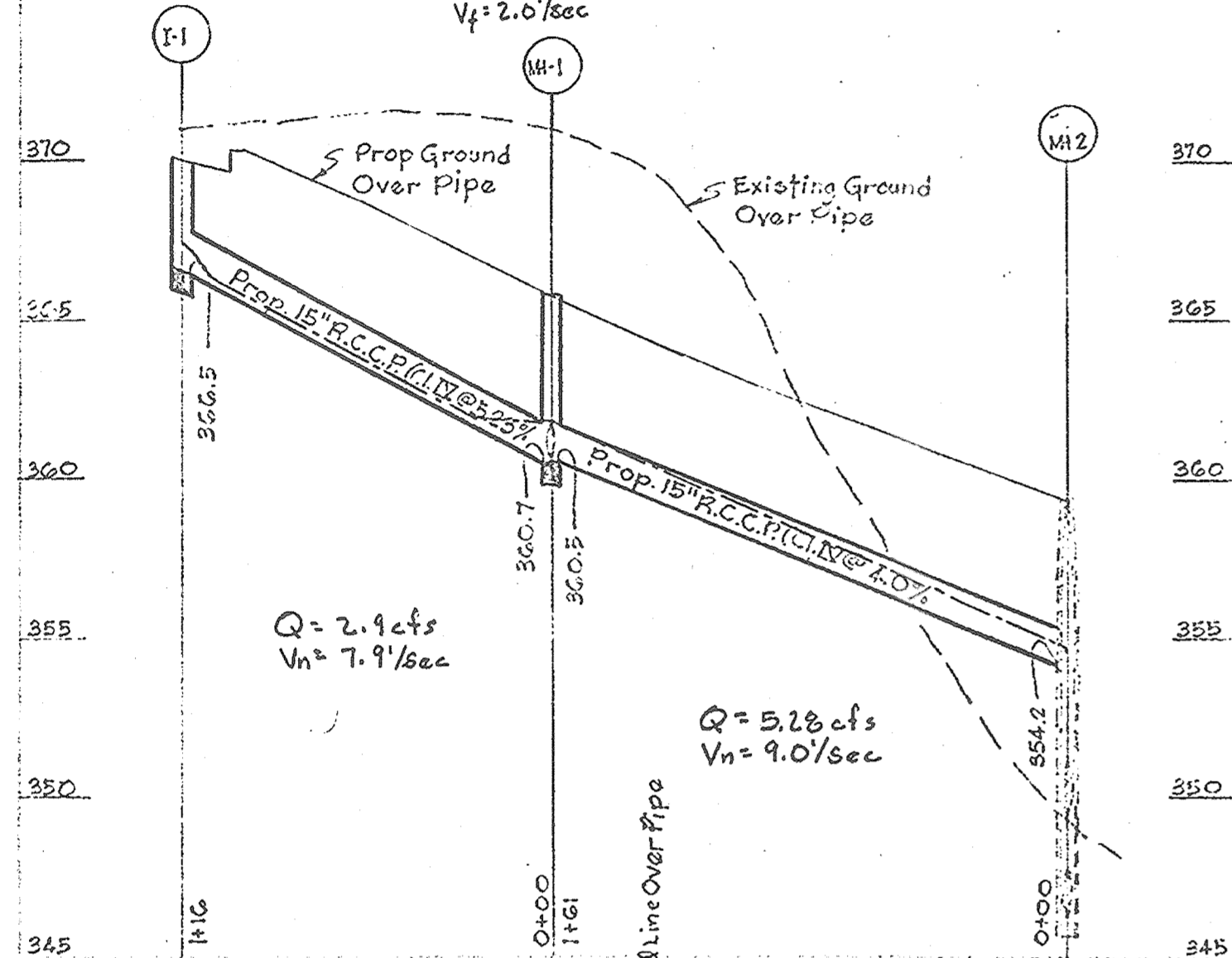
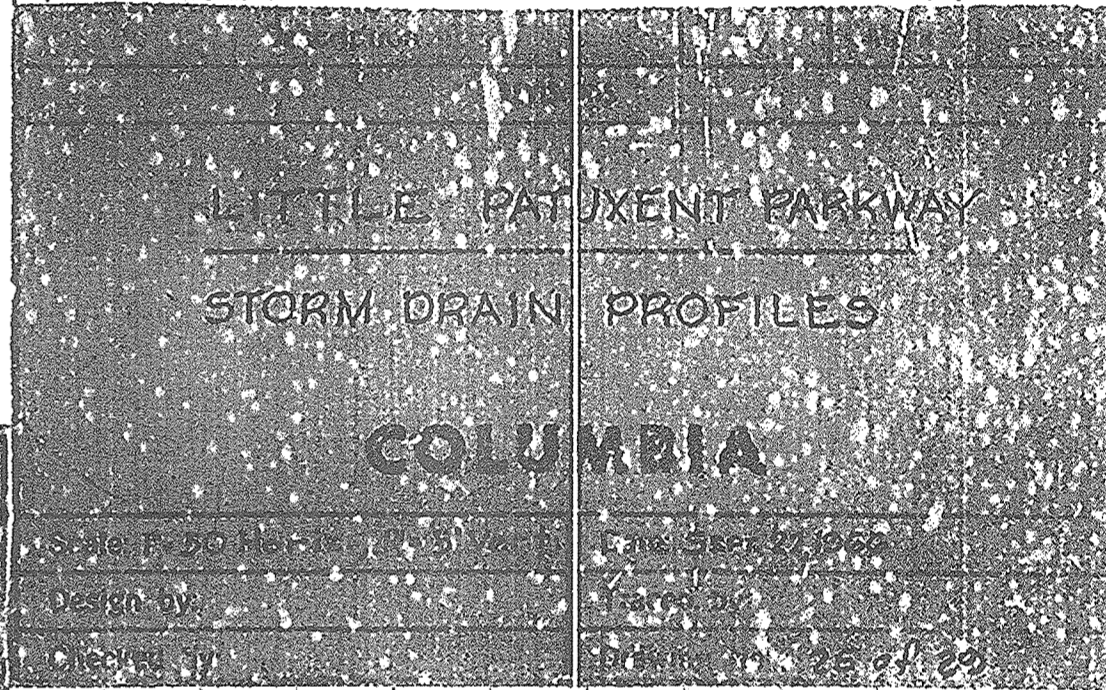


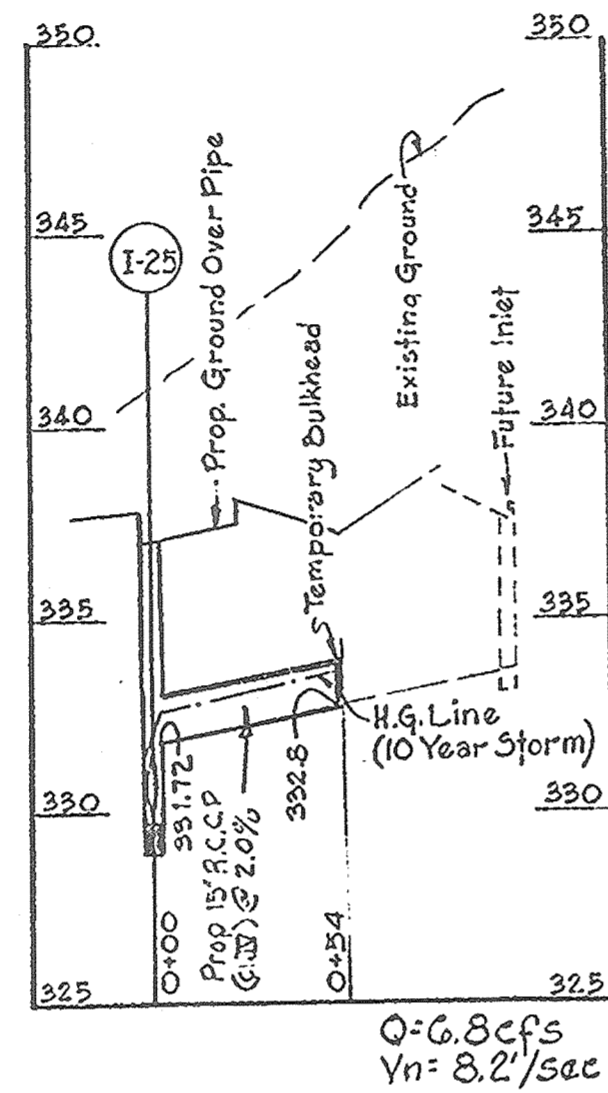
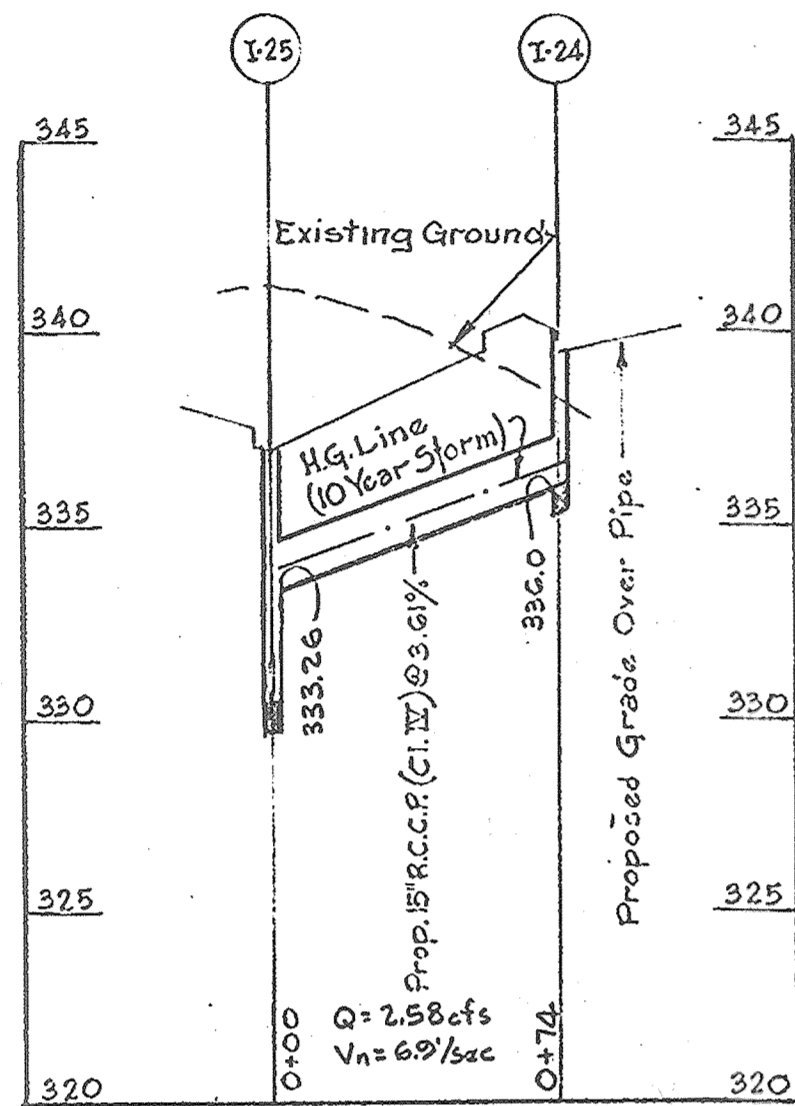
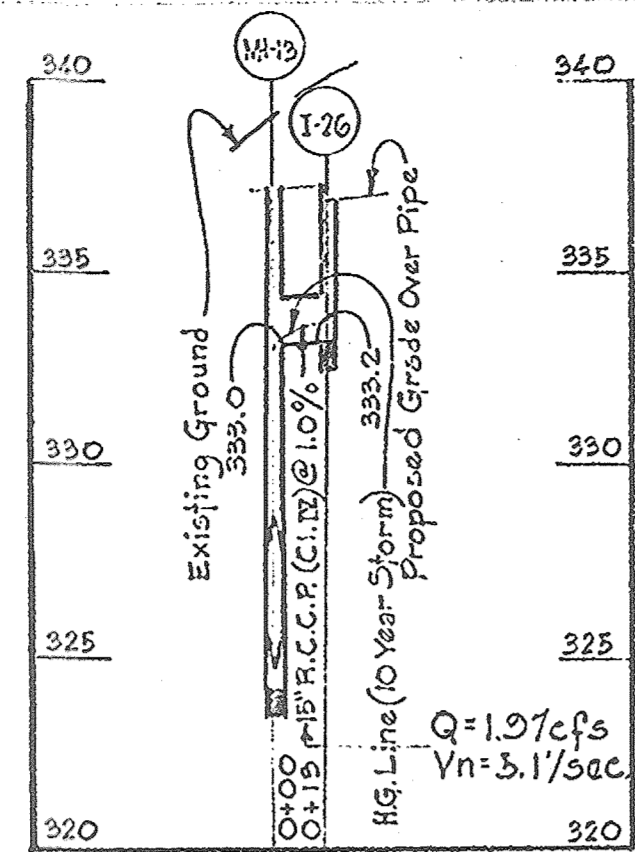


NOTE: THESE PLANS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
G. SCOTT THOMPSON
S.E. ARCHITECT & ENGINEER
PROFESSIONAL LICENSE NO. 10000
AS-BUILT DATE: 4-16-2018

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1967
J. J. [Signature]

W.P. & A. Comments 10/28/66
Add HG Line 10/19/66

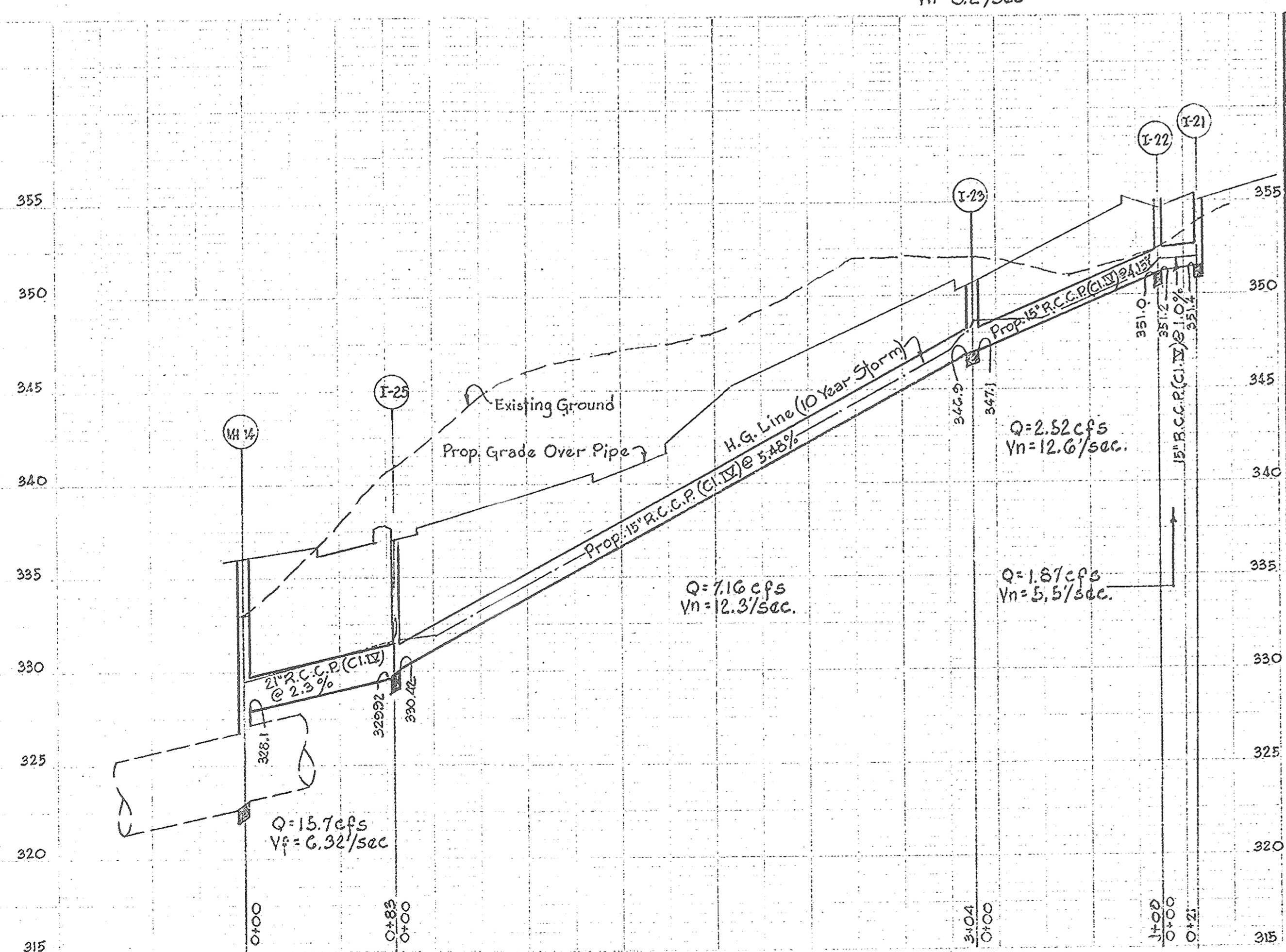




APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE: APR 21 1967

W.P.A. Comments		10/28/66
Added H.G. Line		10/19/66
LITTLE PATUXENT PARKWAY STORM DRAIN PROFILES		
COLUMBIA		
Date: 10/28/66	Drawn by: [Signature]	Checked by: [Signature]
Scale: 1" = 20' Horiz. 1" = 2' Vert.	Project No. 4224	Sheet No. 26 of 29

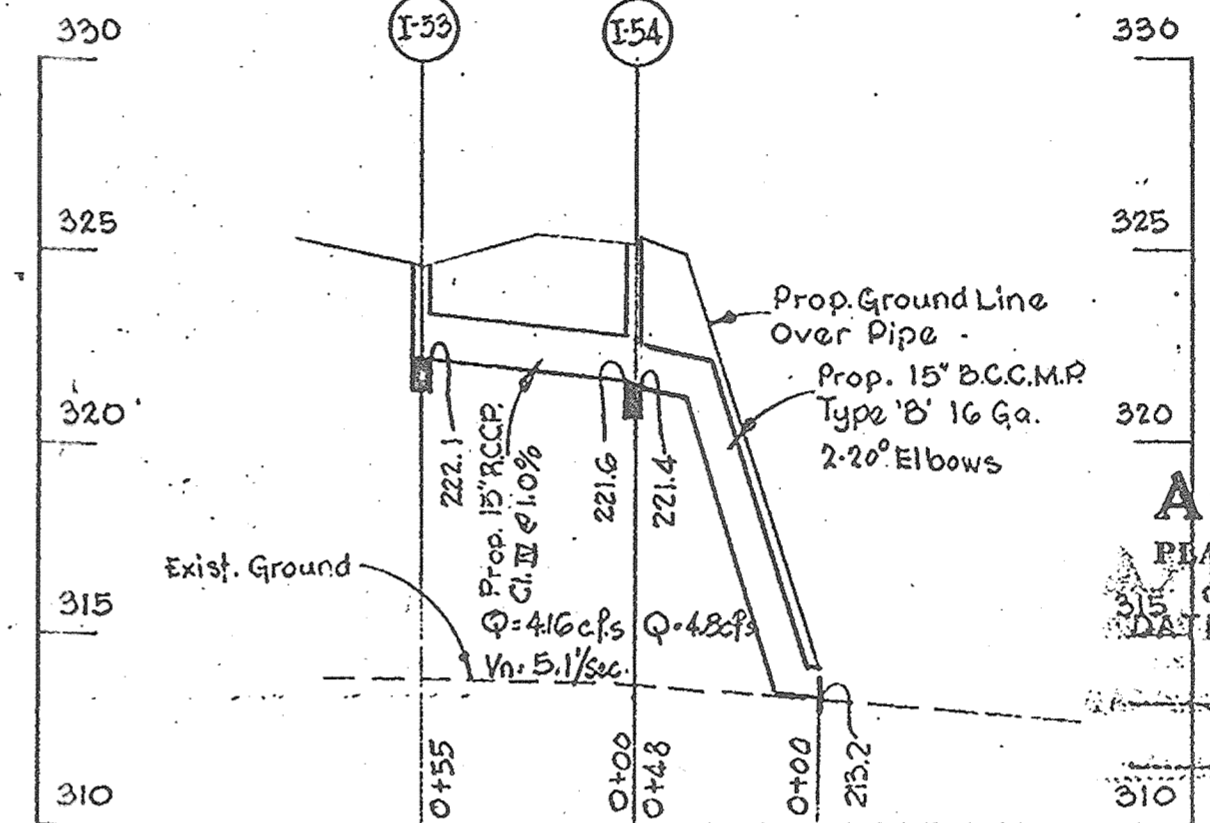
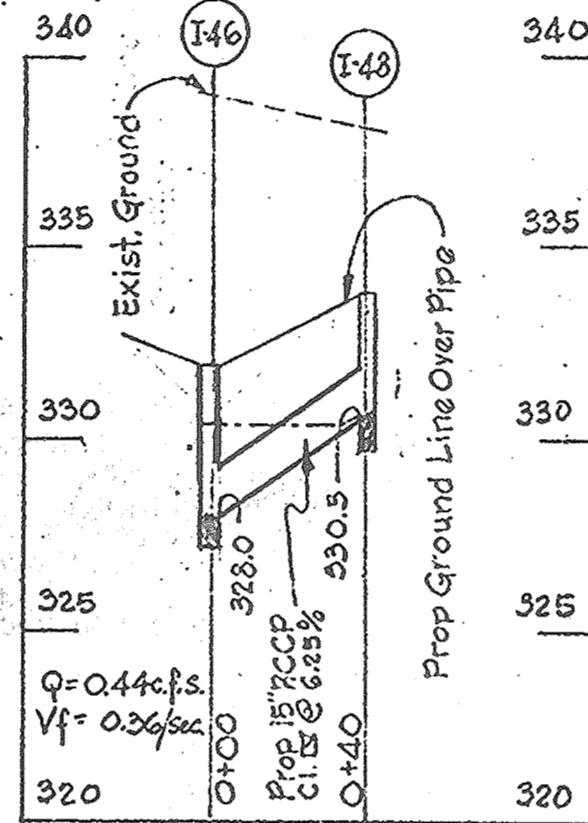
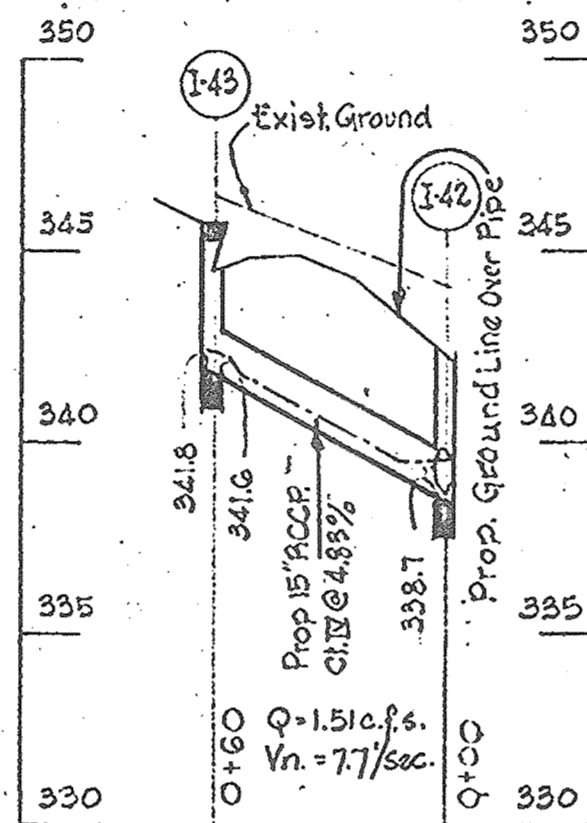
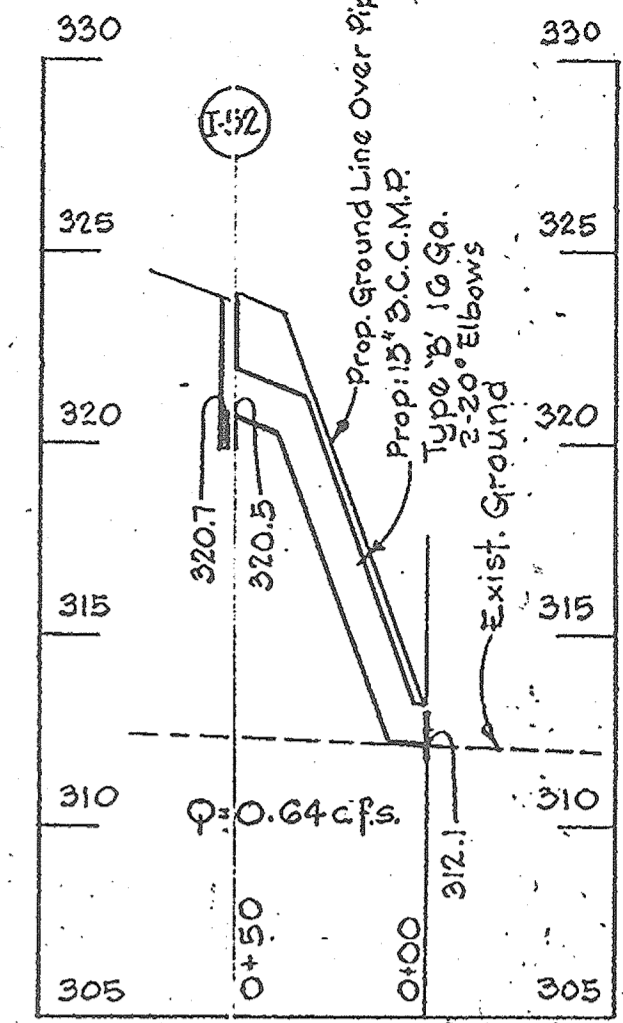
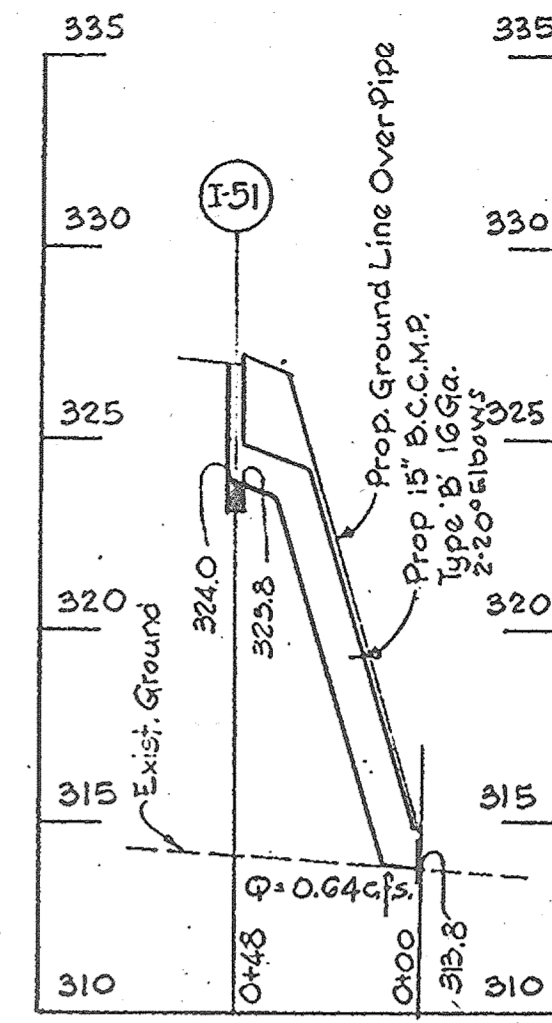
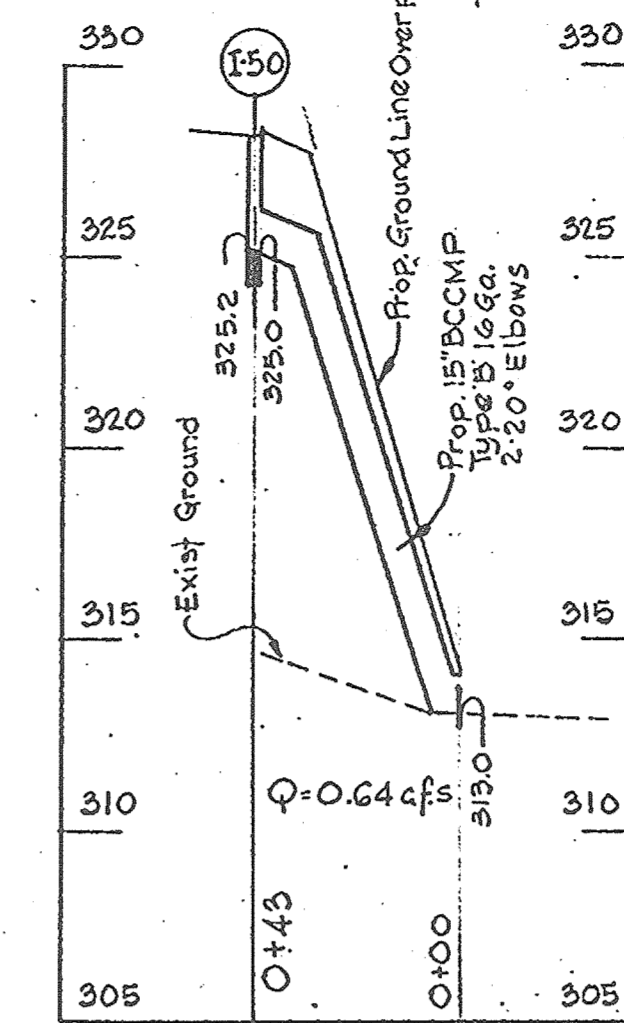
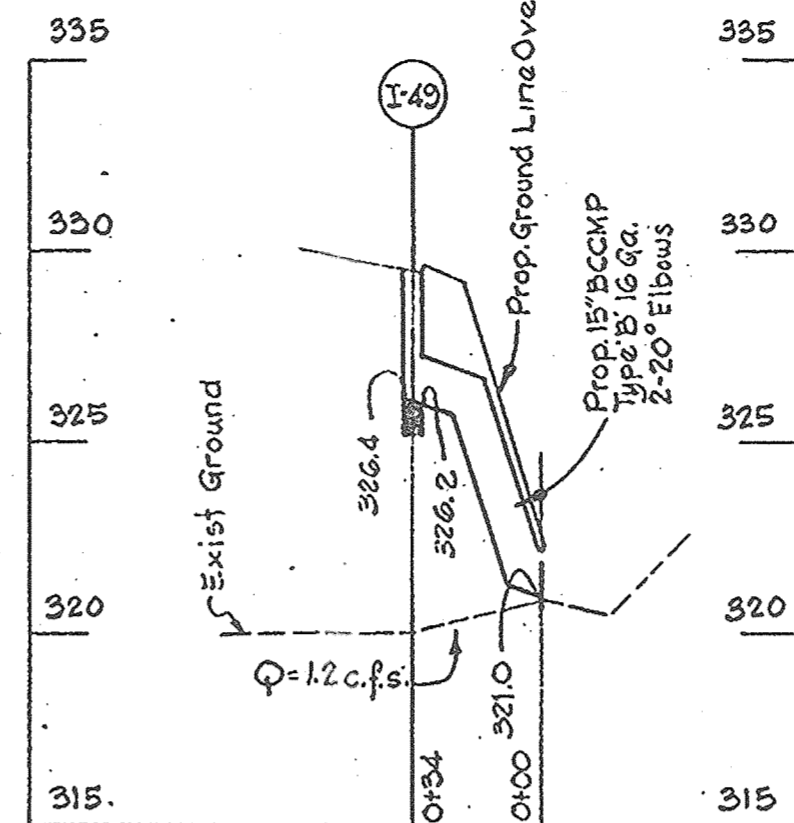
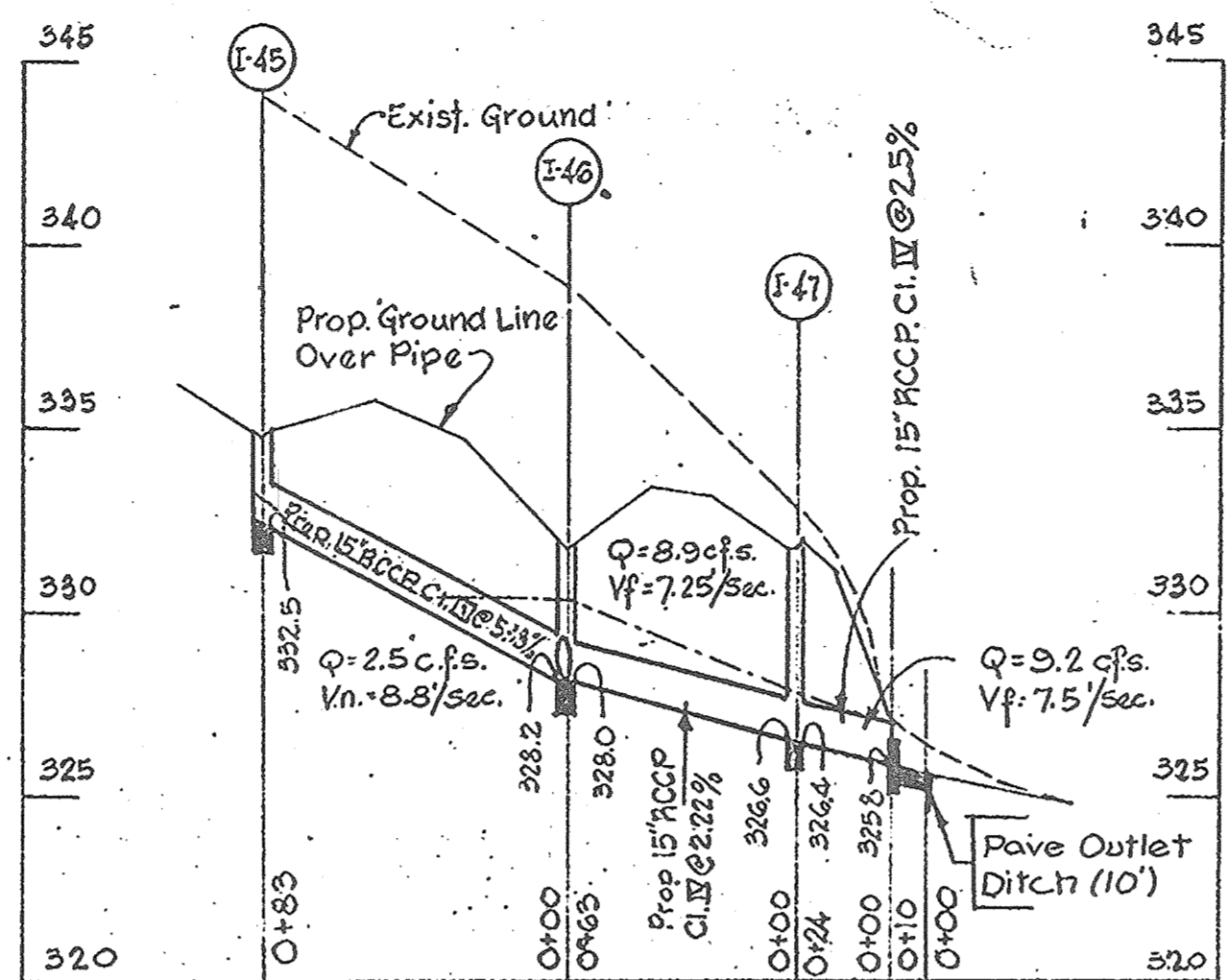
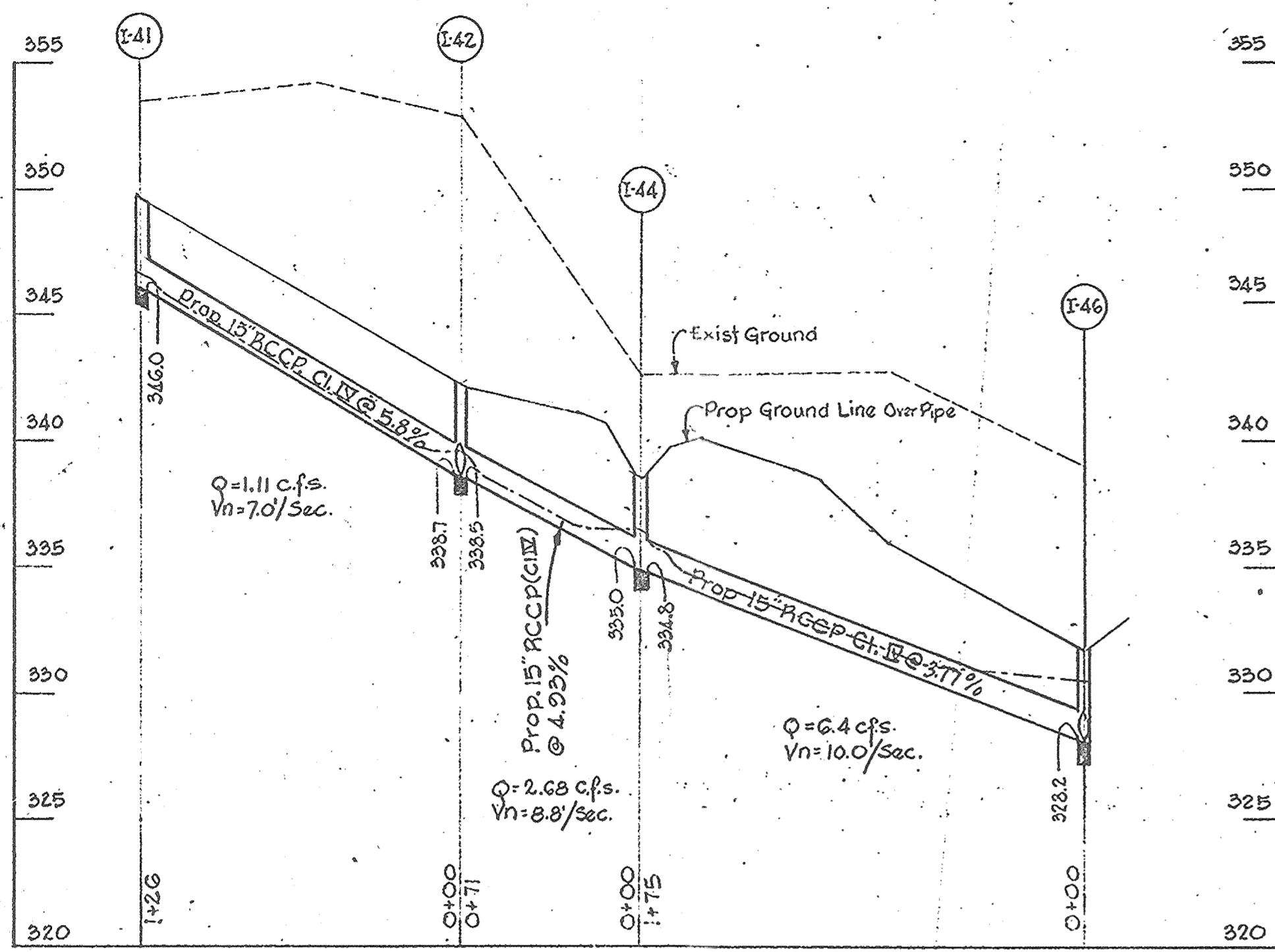
NOTE: THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET.
SCOTT SHANBERGER
SHANBERGER & LANE
Professional L.S. #10948 Exp. Date 4/23/88
AS-BUILT DATE: 6-18-2015



#55

H.G. Line (10 Yr. Storm)

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	NO.
	CHECKED	
	NO.	

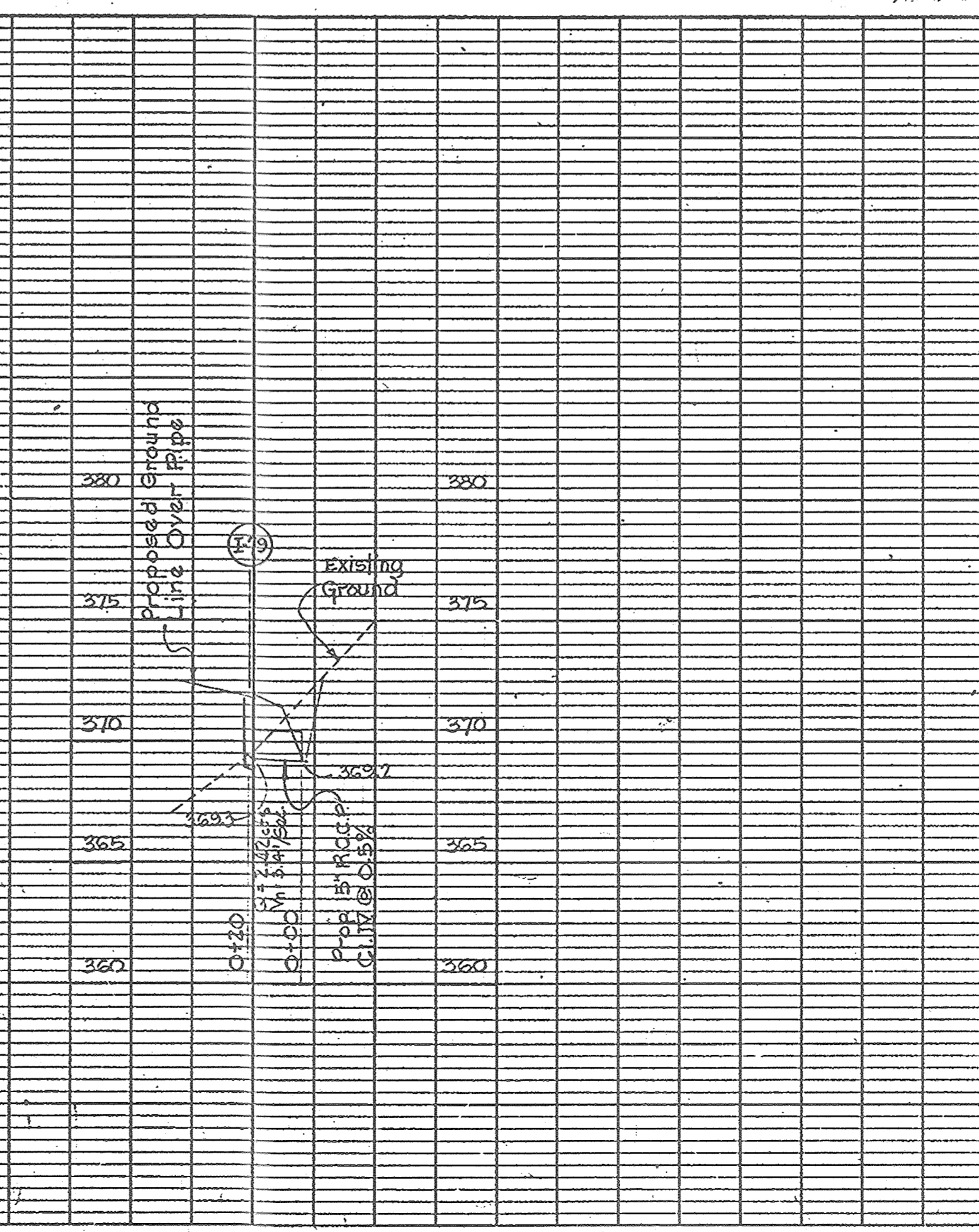
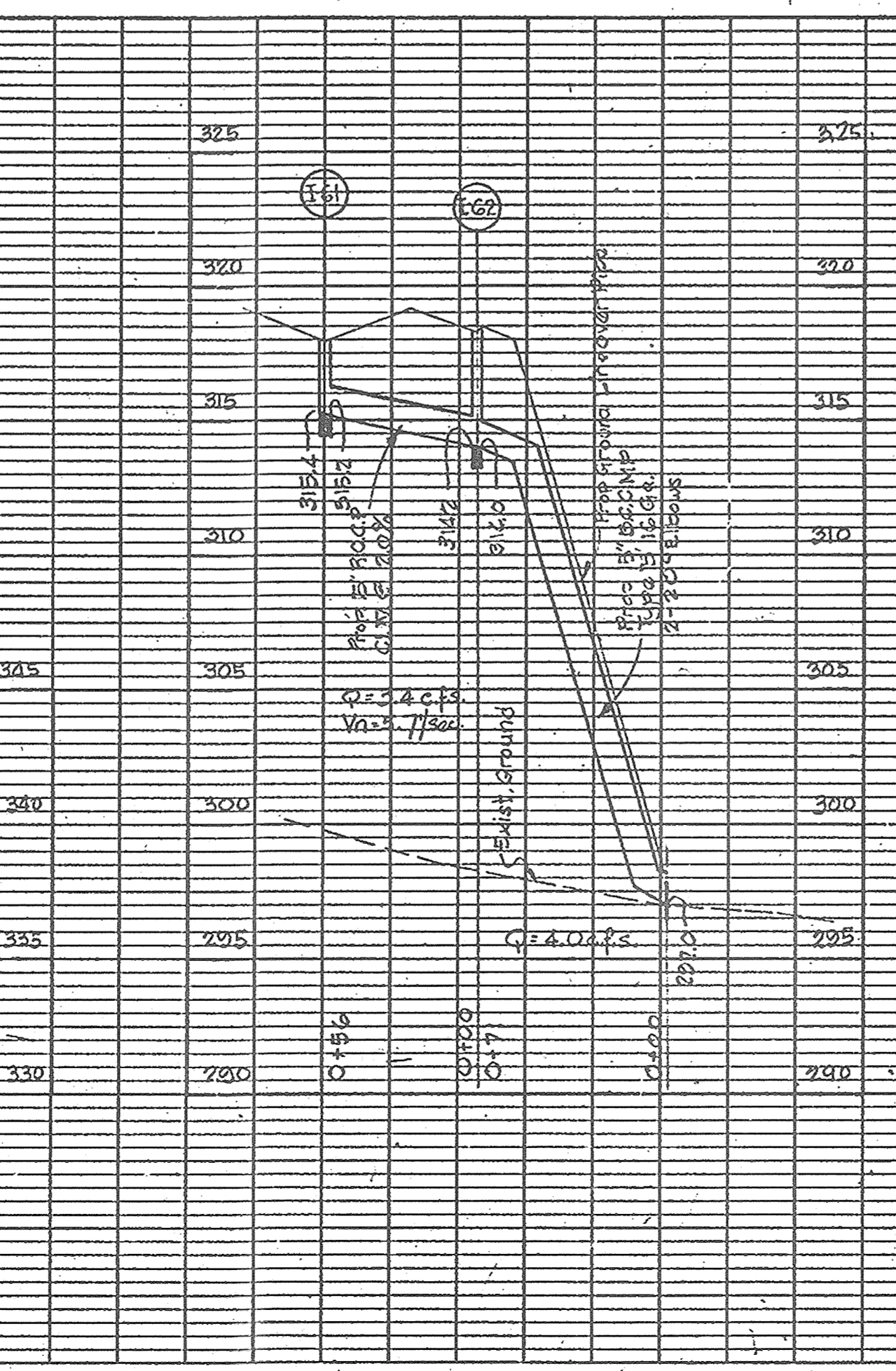
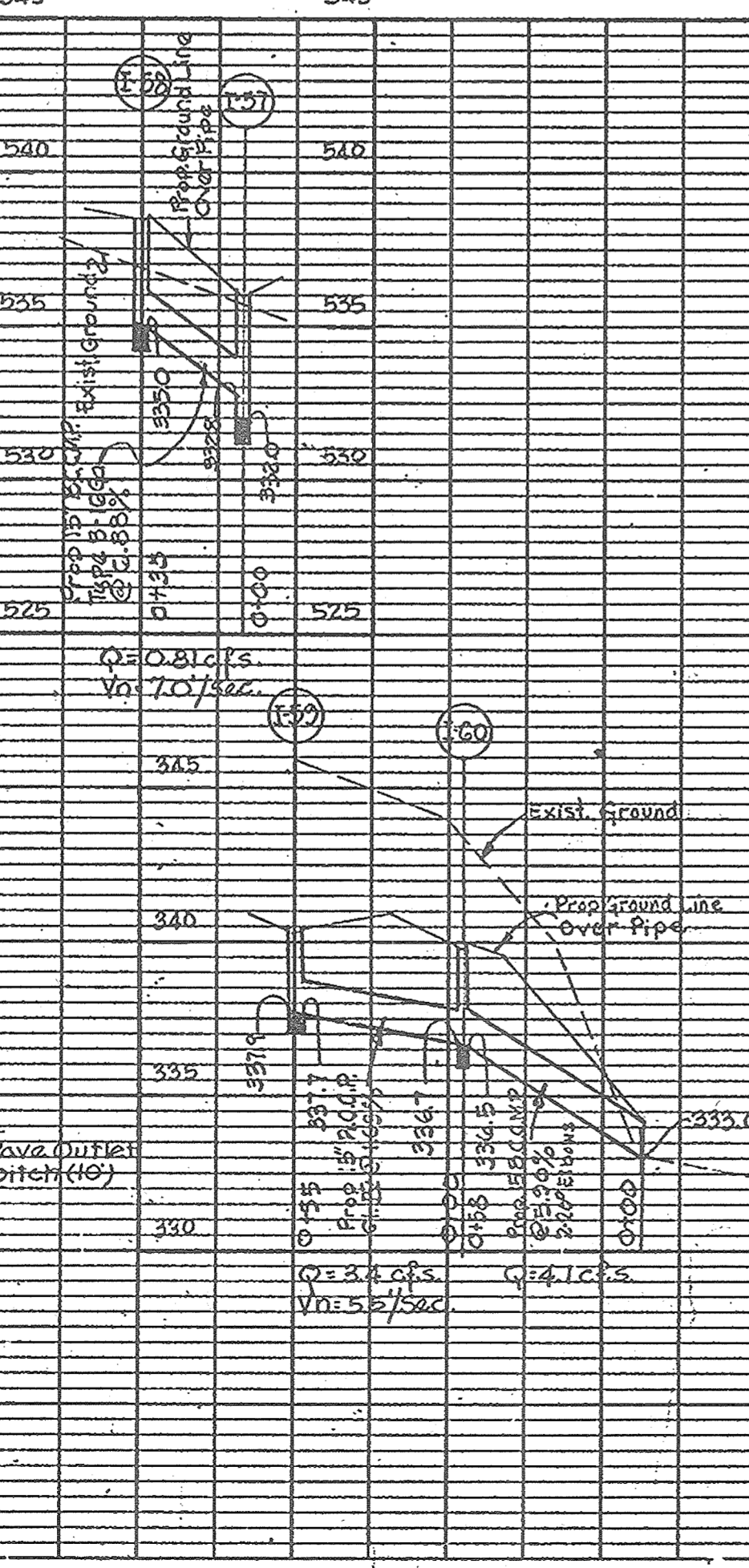
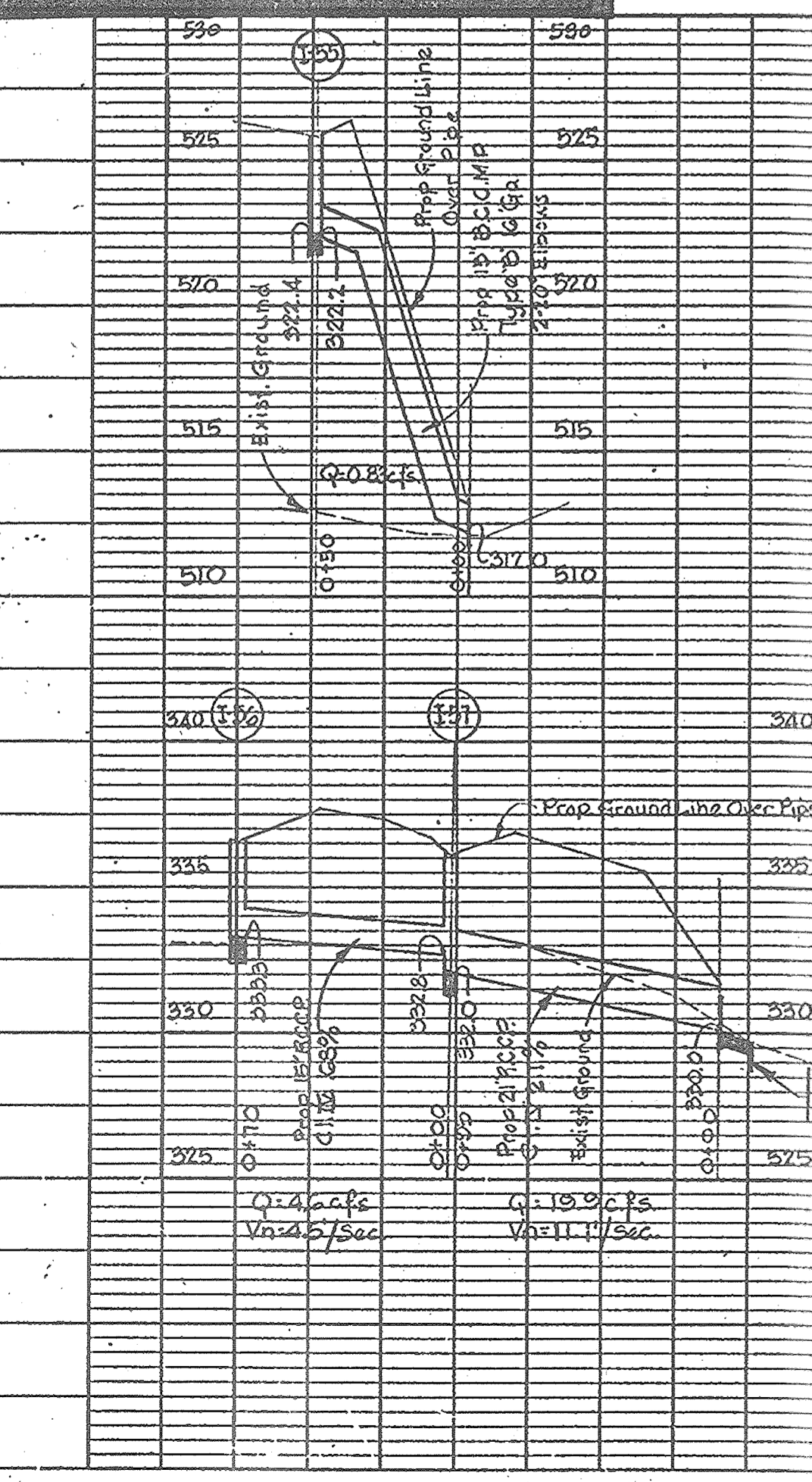


NOTE: All Pipe Elbows Shown On This Sheet Are 20" 15' B.C.C.M.R. Type 'B' 16 Ga.
See Detail Sheet No. 9 For:
1. Typical Section Of Inlet / Outlet Ditch
2. Paving Details For Ditches

Revised Sheet Number	1-10-67
W.P.A. Comments	10-28-66
Added H.G. Line & Profile I-79	10-19-66

APPROVED
PLANNING COMMISSION
OF HONOLULU COUNTY
DATE: 1-10-67

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	NO.
	CHECKED	
	NO.	



DATE: 1-10-67

