
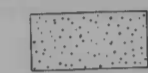






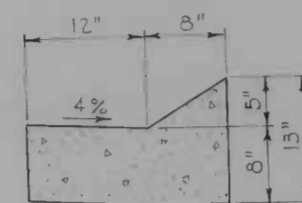


FILE REF.

REVISIONS		
NO.	DESCRIPTION	DATE BY

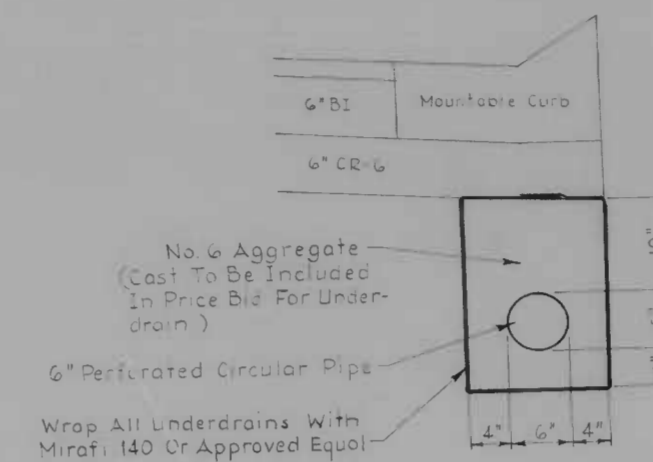
SYMBOLS

-  - Indicates Limits Of Proposed Paving Using 2" Bituminous Concrete Surface Course (Band SN) On 6" Bituminous Concrete Base Course (Band B1) On 6" Crusher Run Aggregate (CR-6).
-  - Indicates Proposed 7" Cement Concrete Walk On 3" Crusher Run Aggregate (CR-6).
-  - Indicates Driveways To Be Paved With 7" Cement Concrete (Mix No 6) On 6" Crusher Run Aggregate (CR-6).
-  - Indicates Driveway Adjustments To Be Paved As Designated On Plans.
-  - Indicates Existing Paving To Be Removed, Backfilled, Topsoiled & Sodded.
-  - Indicates Limit Of Proposed Cut Slopes To Be Covered With 2" Topsoil & Sod.
-  - Indicates Limit Of Proposed Fill Areas To Be Covered With 2" Topsoil & Sod.
-  - Indicates Special Pedestrian Ramp - Type 7 - See BC 655.26

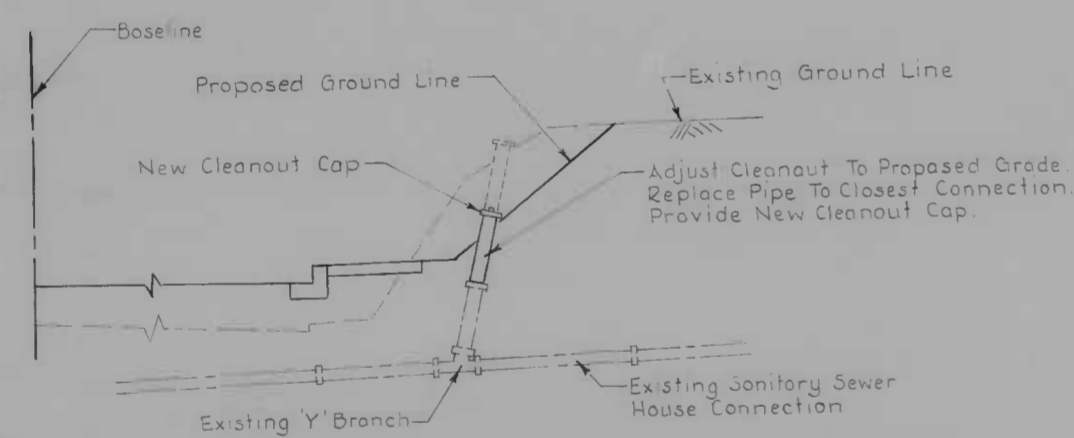


STANDARD MOUNTABLE
V-TYPE COMBINATION
CURB & GUTTER

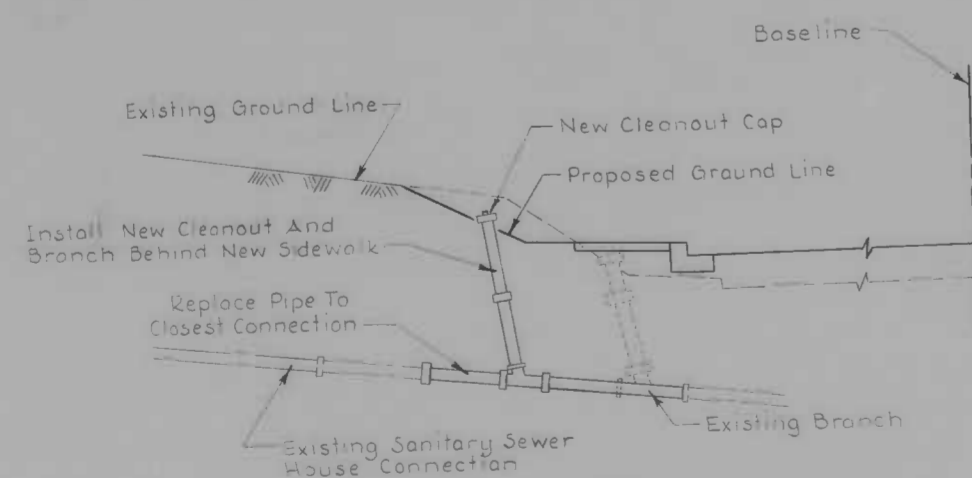
BC-620.04



LONGITUDINAL UNDERDRAIN



TYPICAL CLEANOUT ADJUSTMENT IN CUT SLOPE



TYPICAL CLEANOUT RELOCATION

Sheet No. X-886

DRAWN BY Richard Miller
EXAMINED BY Wm. F. Crampton

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

GLOSTER AVENUE
FROM GEORGETOWN RD. 550'± WESTERLY TO THE DEAD END
AND
OTTAWA AVENUE
FROM GLOSTER AVE 325'± NORTHEASTERLY

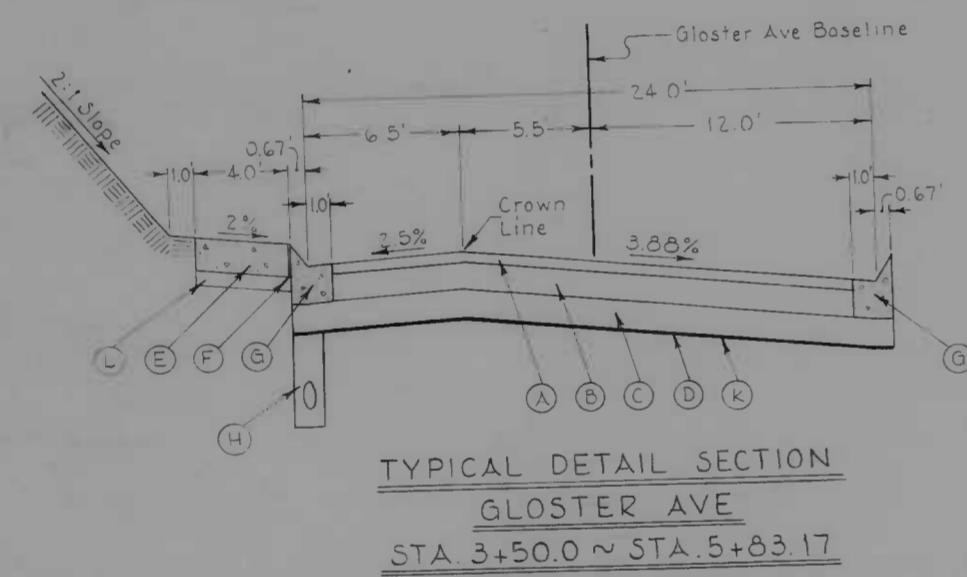
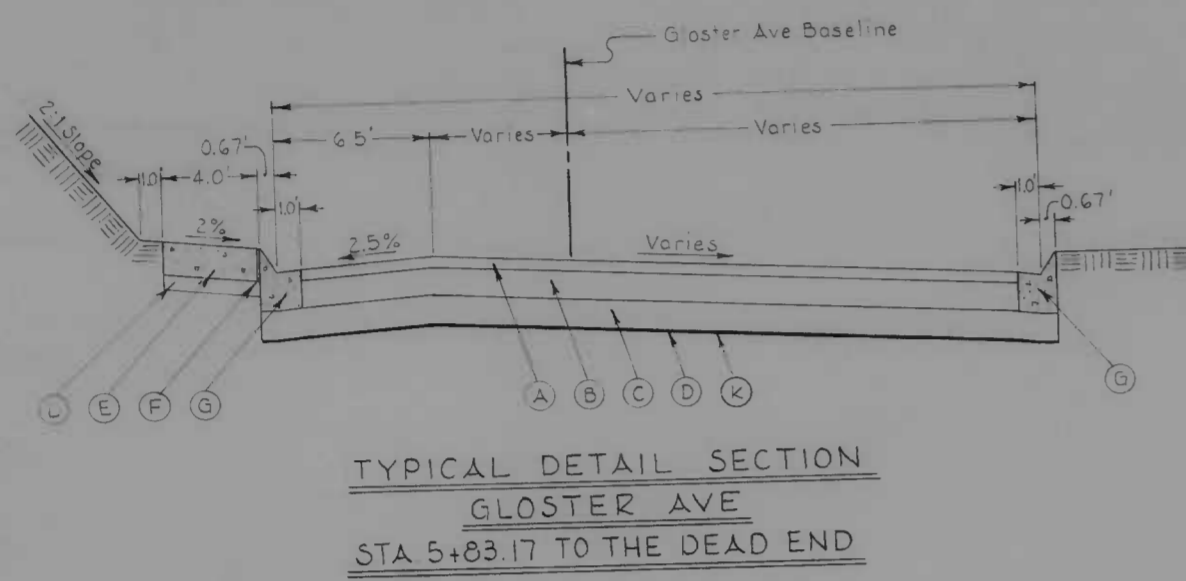
TYPICAL DETAILS

SCALE: NONE DATE: MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 2 OF 17

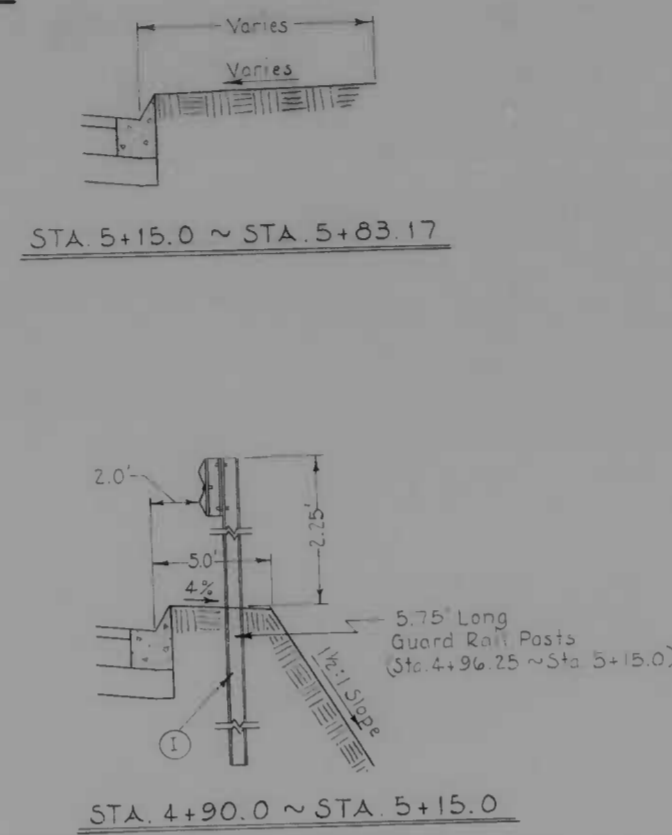
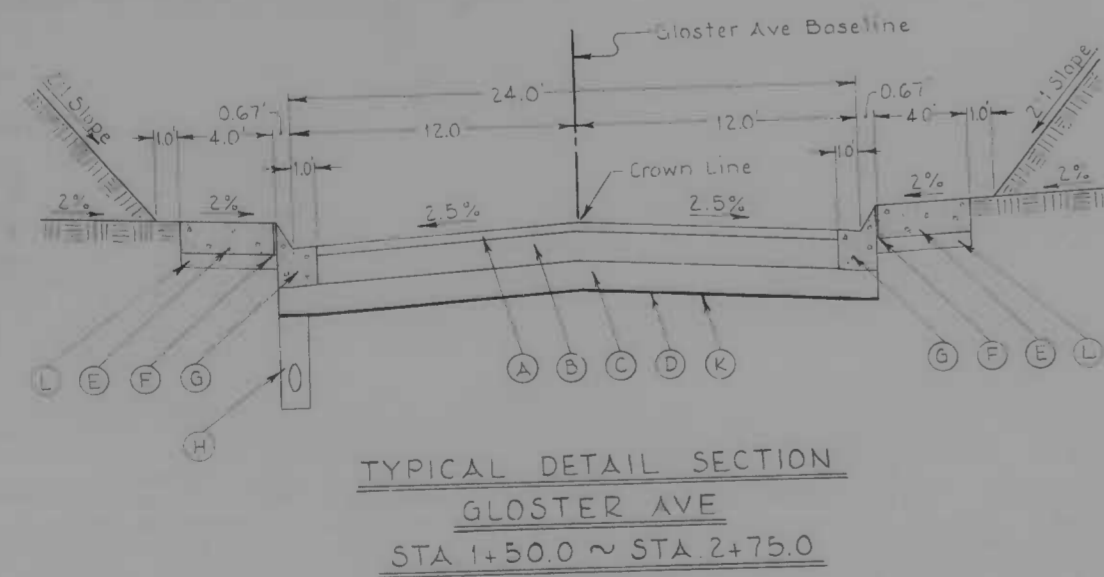
FILE REF.

FILE REF.

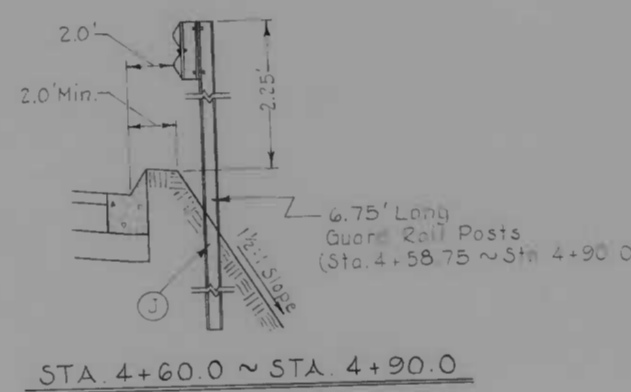
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	Revise Underdrain Limits	12-8-86	RM



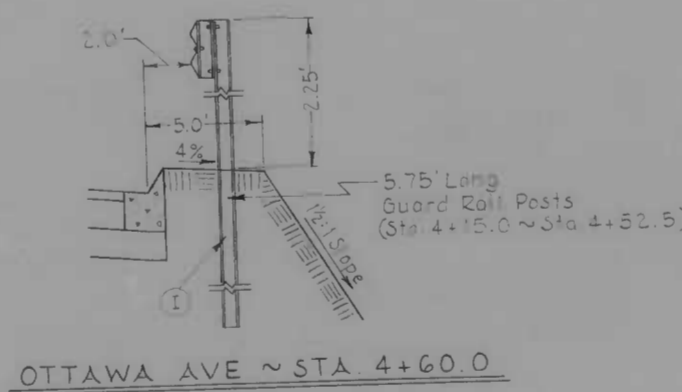
Note: Install Longitudinal Underdrain Under The Proposed Left (South) Curb Of Gloster Ave From The Existing Inlet At Sta 1+13.0 To Sta 3+95.0 And From The Prop Inlet (Sta 4+04, Left) To Sta 5+50.0



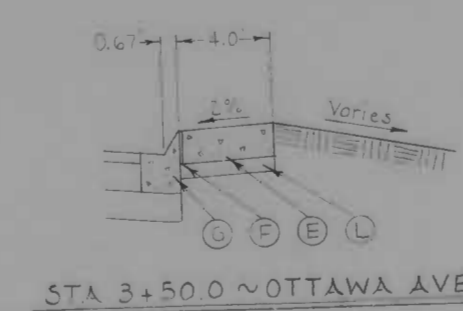
STA 4+90.0 ~ STA 5+15.0



STA 4+60.0 ~ STA 4+90.0



OTTAWA AVE ~ STA 4+60.0



STA 3+50.0 ~ OTTAWA AVE

LEGEND

- (A) 2" Bituminous Concrete Surface Course (Band SN)
- (B) 6" Bituminous Concrete Base Course (Band B1)
- (C) 6" Crusher Run Aggregate (CR-6)
- (D) Filter Cloth (Mirafi 500 Or Approved Equal)
- (E) 7" Cement Concrete Walk
- (F) 1/2" Preformed Expansion Joint
- (G) Std Mountable 'V' Type Combination Curb & Gutter, (BC 620.04), See Sheet 2 of 17 For Detail.
- (H) Longitudinal Underdrain, See Sheet 2 of 17 For Detail.
- (I) 'W' Beam Guard Rail Using 5.75' Long Posts, See BC 660.61
- (J) 'W' Beam Guard Rail Using 6.75' Long Posts, See BC 660.61
- (K) Limit Of Class '1' Excavation
- (L) 3" Crusher Run Aggregate (CR-6)

Book No. X-886

DRAWN BY Richard Miller
 ENGINEERED BY Wm. F. Compton

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3104

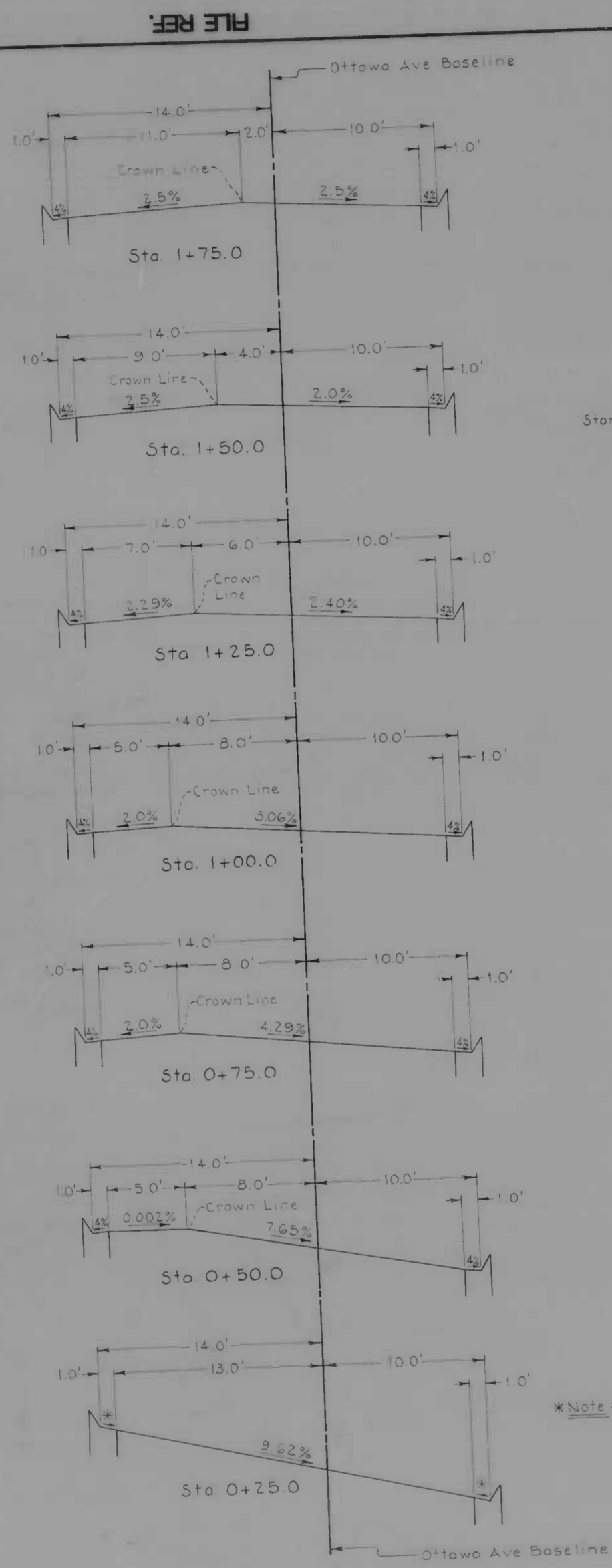
GLOSTER AVENUE
 FROM GEORGETOWN ROAD
 550'± WESTERLY TO THE DEAD END

TYPICAL DETAIL SECTIONS

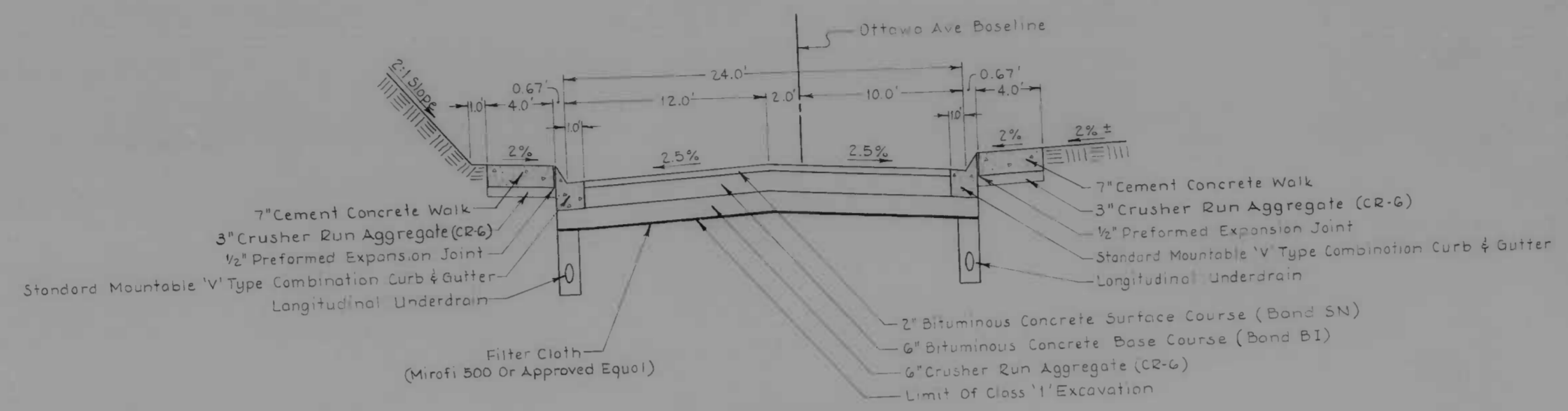
SCALE: NONE DATE: MAY 5, 1986
 HIGHWAY ENGINEERING DIVISION SHEET 31 OF 17

FILE REF.

REVISIONS		
NO.	DESCRIPTION	DATE BY

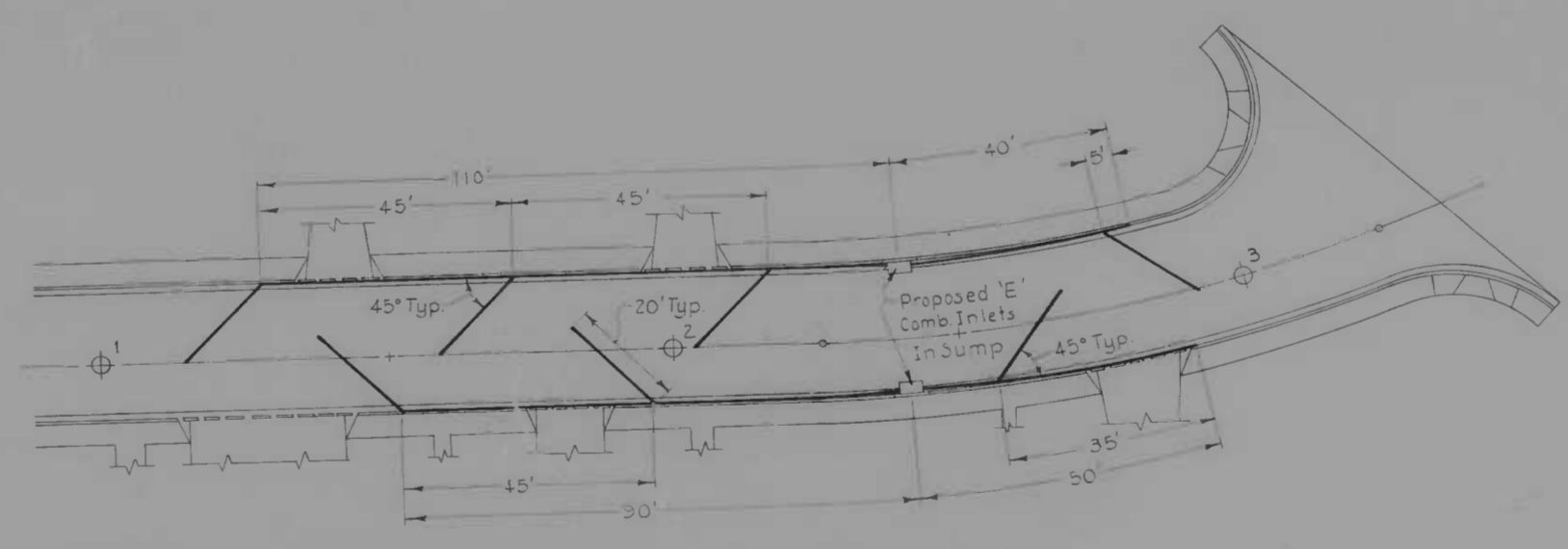


SECTION TRANSITION DIAGRAM
OTTAWA AVE
STA 0+25.0 ~ STA 1+75.0



TYPICAL DETAIL SECTION
OTTAWA AVE
STA. 1+75.0 ~ STA. 2+75.0

Notes: See Sheet 2 of 17 For Standard Mountable 'V' Type Combination Curb & Gutter Detail.



Note: See Sheet 2 of 17 For Proposed Underdrain Detail.

PROPOSED UNDERDRAIN LAYOUT
OTTAWA AVE

*Note: The Slope Of The Right And Left Outer Pans From Ottawa Ave To Sta. 0+40.0 Shall Vary With The Slope Of The Roadway.

Book No X 386
DRAWN BY Richard Miller
EXAMINED BY Wm F Crampton

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

OTTAWA AVENUE
FROM GLOSTER AVENUE
325'± NORTHEASTERLY

TYPICAL DETAIL SECTION

SCALE NONE DATE MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 4 OF 17

FILE REF.

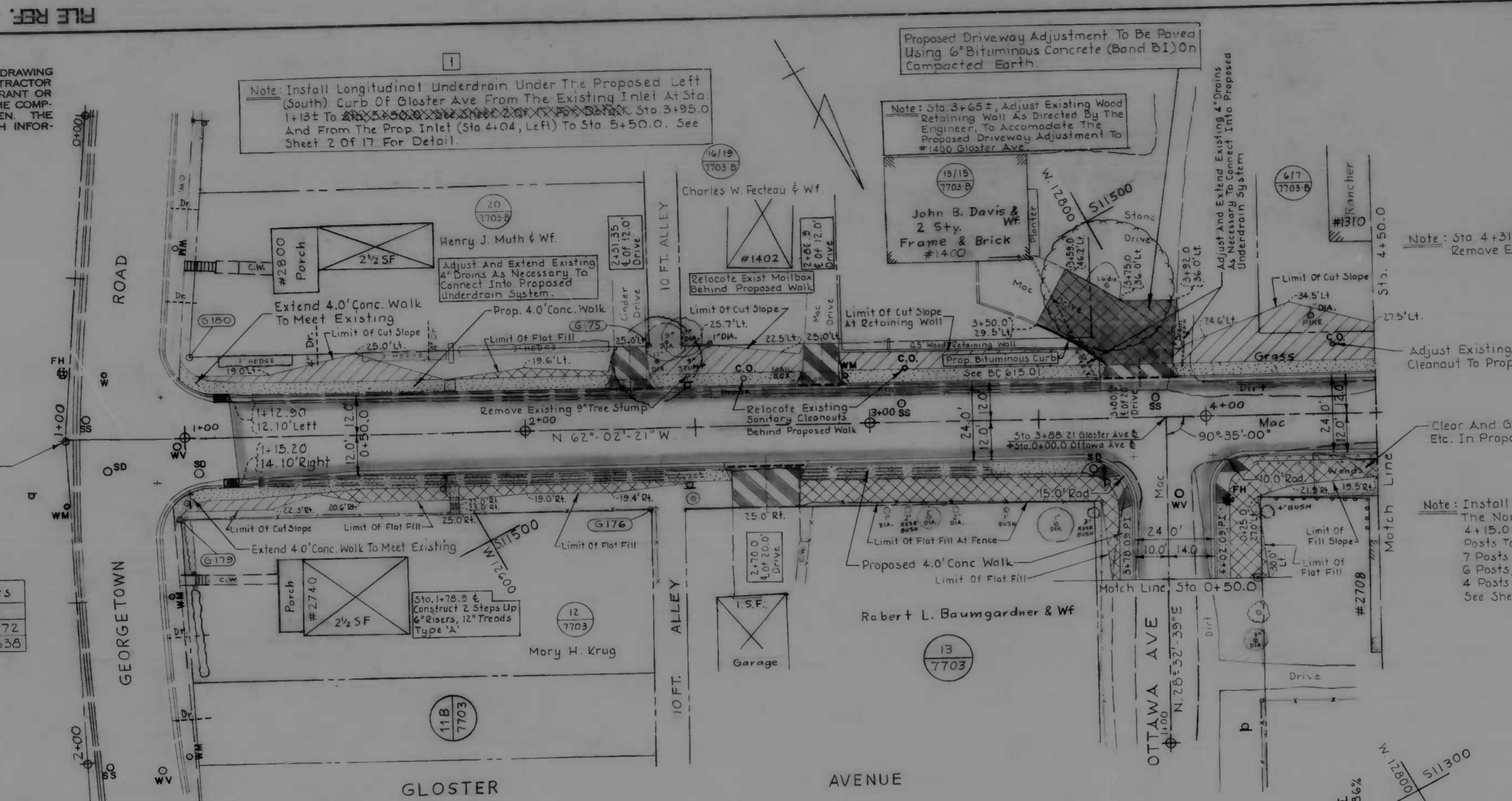
NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

REVISIONS		
NO.	DESCRIPTION	DATE BY
1	Revised Underdrain Limits	12-8-86 RM

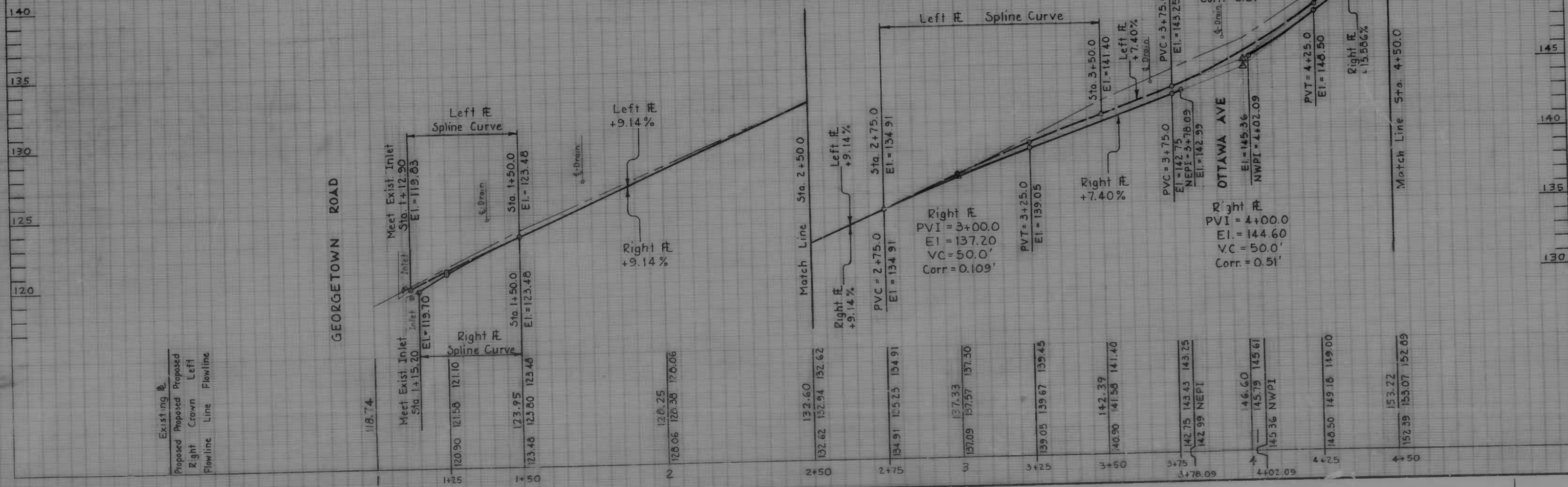
Gloster Ave Baseline Coordinates		
Station	West	South
1+00.0	-12537.208	-11570.772
3+68.21	-12791.777	-11435.638

Right-Of-Way Coordinates				
Point	West	South	Plus	Offset
G 175	-12669.665	-11526.763	2+36.69	25.0' Left
G 176	-12644.272	-11464.600	2+36.69	25.0' Right
G 179	-12523.816	-11549.577	0+98.11	25.0' Right
G 180	-12550.600	-11591.967	1+01.89	25.0' Left

BOOK No. X-886
 DRAWN BY D. Smith, R. Miller
 EXAMINED BY Wm. Campbion



PROPOSED FLOWLINE PROFILE



BENCH MARKS

- BM 7039 - Brass Screw In Second Concrete Terrace Step Entrance To #2720 Georgetown Road 350' S.W. Of Desoto Road. Elev. = 117.627
- BM 7041 - "x" Cut On North Flange Bolt Of Fire Hydrant At N.E. Corner Of Ottawa Ave And Gloster Ave. Elev. = 145.50

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3104

GLOSTER AVENUE
 FROM GEORGETOWN ROAD
 550'± WESTERLY TO THE DEAD END

PLAN & PROFILE
 GEORGETOWN ROAD TO STA. 4+50
 SCALE: 1"=20' HOR., 1"=4' VERT. DATE: MAY 5, 1986
 HIGHWAY ENGINEERING DIVISION SHEET 5r OF 17

FILE REF.

FILE REF.

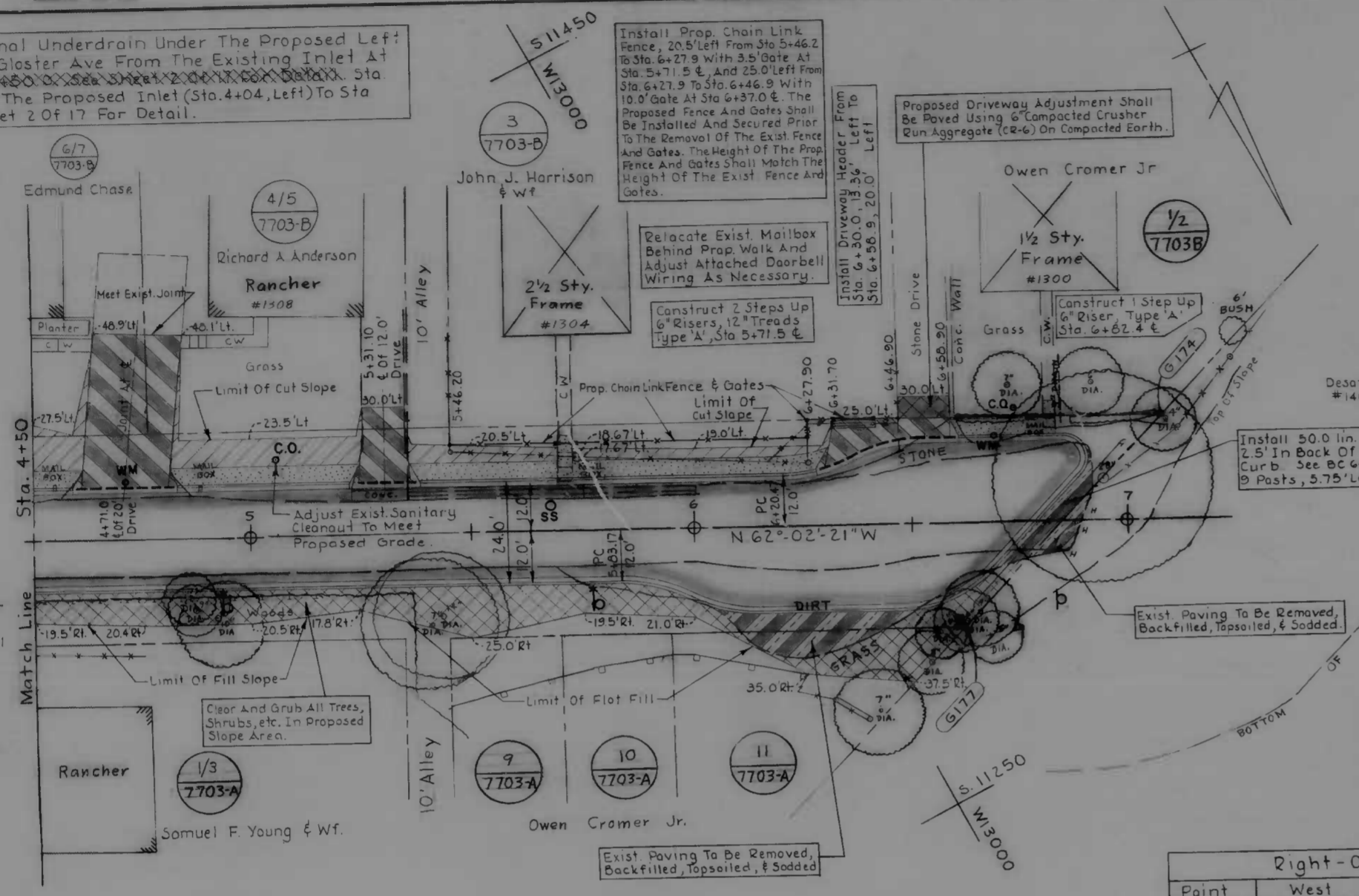
REVISIONS			
NO.	DESCRIPTION	DATE	BY
11	Revised Underdrain Limits	12-6-66	RM

Note: Install Longitudinal Underdrain Under The Proposed Left (South) Curb Of Gloucester Ave From The Existing Inlet At Sta 4+13.5 To Sta 4+50.0. See Sheet 2 OF 17 For Detail.

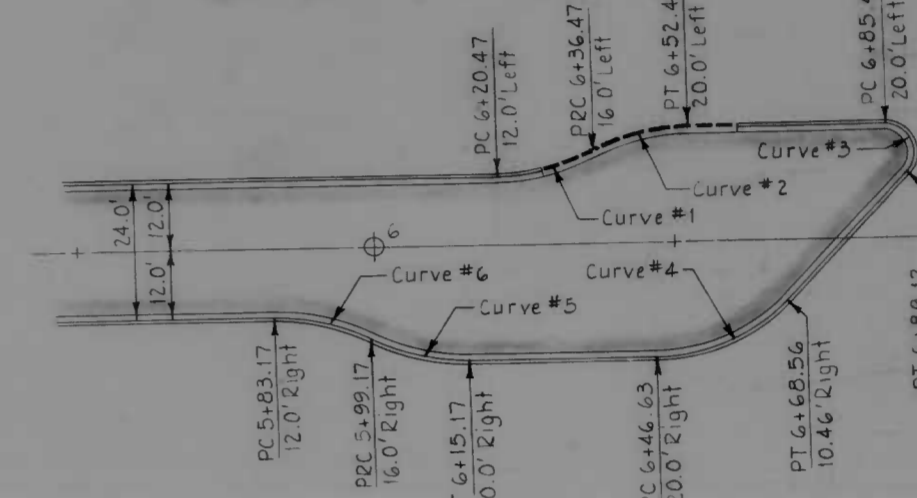
Note: Sta 4+55.0 And Sta 4+88.0 Relocate Existing Mailboxes Behind Proposed Walk

Note: Install 100 In. Ft. W Beam Guard Rail On The North Side Of Gloucester Ave From Sta 4+15.0 To Sta 5+15.0. See Sheet 3 OF 17 And BC 660 G Posts To Be Installed As Follows: 7 Posts, 5.75' Long, @ 25' O.C From Sta 4+15.0 To Sta 4+52.50 6 Posts, 6.75' Long, @ 25' O.C From Sta 4+58.75 To Sta 4+90.5 4 Posts, 5.75' Long, @ 25' O.C From Sta 4+96.25 To Sta 5+15.0

NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION



PROPOSED CURBLINE LAYOUT
GLOSTER AVE



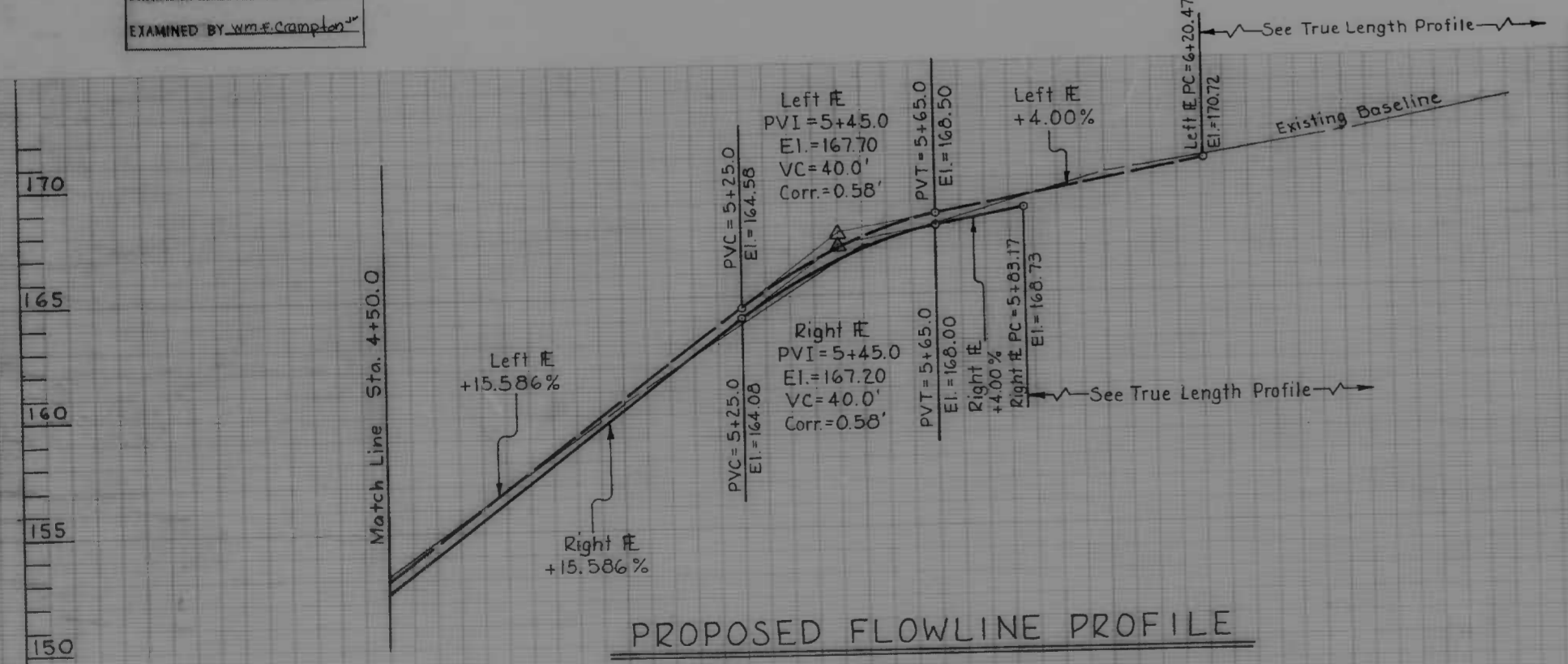
Station	West	South
4+00.24	-12979.054	-11336.226
6+85.15	-13054.055	-11296.412

Point	West	South	Plus	Offset
G174	-13086.368	-11307.563	7+08.46	25.0' Left
G177	-13021.742	-11285.261	6+61.84	25.0' Right

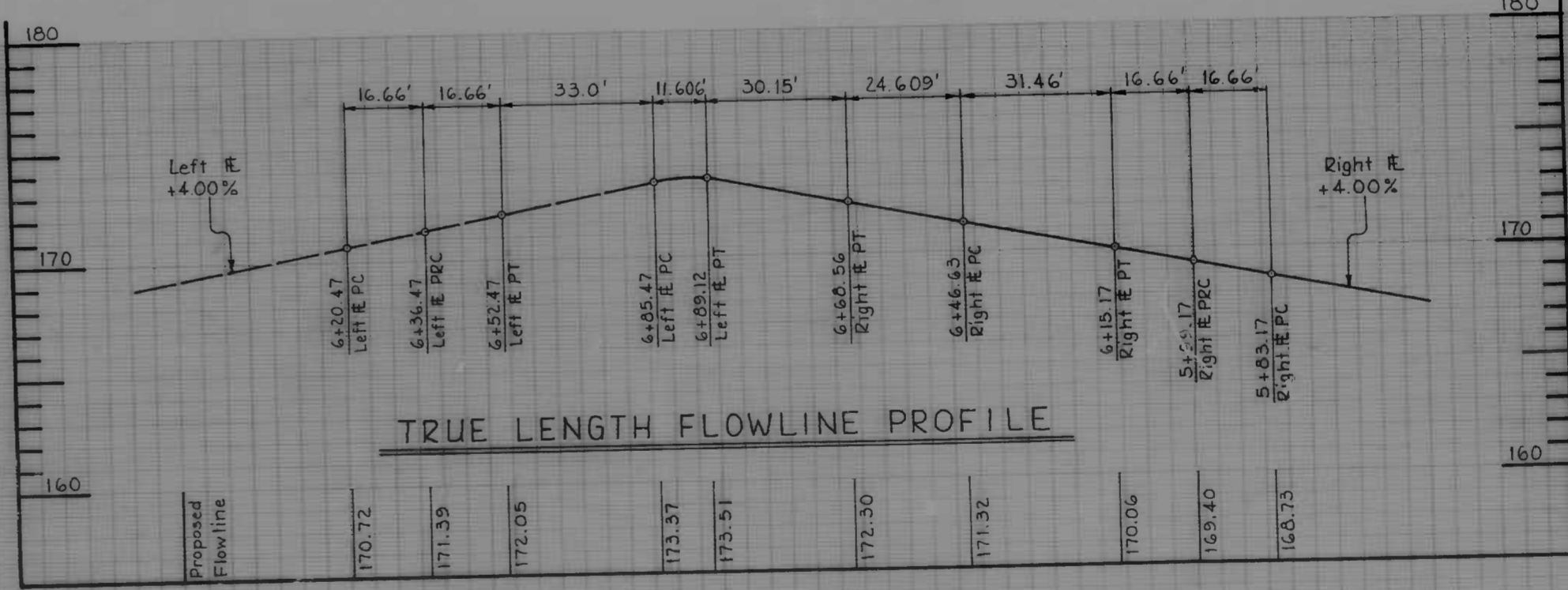
Curve	Δ	Δ/2	R	T	C	L	"d"
1 and 2	28°04'21"	14°02'10.5"	34.00'	8.50'	16.492'	16.658'	50.55509941
3	132°59'59.8"	66°29'59.9"	5.00'	11.499'	9.17'	11.606'	343.77467600
4	47°00'00.2"	23°30'00.1"	30.00'	13.044'	23.925'	24.609'	57.29577933
5 and 6	28°04'21"	14°02'10.5"	34.00'	8.50'	16.492'	16.658'	50.55509941

BOOK No. X-886
DRAWN BY D. Smith, R. Miller
EXAMINED BY Wm. S. Campbell

GLOSTER AVENUE



PROPOSED FLOWLINE PROFILE



TRUE LENGTH FLOWLINE PROFILE

Proposed Right Flowline	Proposed Left Flowline	Station	Elevation
153.22	153.07	4+50	152.09
160.54	160.57	5+25	160.65
164.08	164.76	5+45	164.50
166.62	167.30	5+50	167.12
167.13	167.13	5+55	167.57
168.00	163.68	5+65	168.50
168.15	Right PC	5+83.17	168.50
170.14		6	169.90
170.08		6	169.90
	Left PC	6+20.47	170.72
		6+50	171.77

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

GLOSTER AVENUE
FROM GEORGETOWN ROAD
550'± WESTERLY TO THE DEAD END

PLAN & PROFILE
STA. 4+50 TO THE DEAD END
SCALE 1"=20' HOR., 1"=4' VERT. DATE MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 6 OF 17

FILE REF.

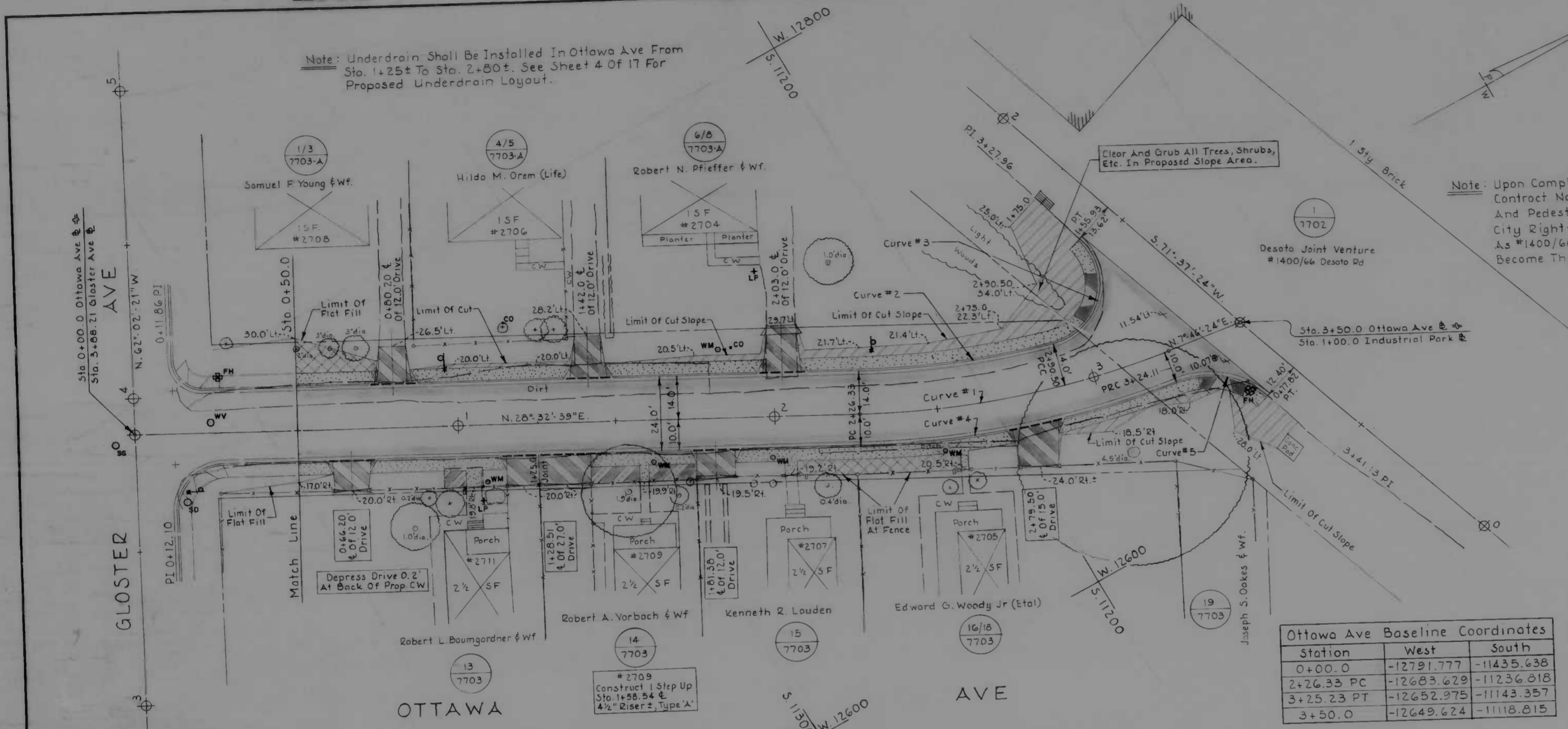
FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Note: Underdrain Shall Be Installed In Ottawa Ave From Sta. 1+25+ To Sta. 2+80+. See Sheet 4 of 17 For Proposed Underdrain Layout.

Note: Upon Completion Of The Bureau Of Highways Contract No 3104, All Paving, Curbs, Sidewalks, And Pedestrian Ramps Located Beyond The City Right-Of-Way Line On The Property Known As #1400/66 Desoto Rd (Block 7702, Lot 1) Shall Become The Responsibility Of The Property Owner.

NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR OR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.



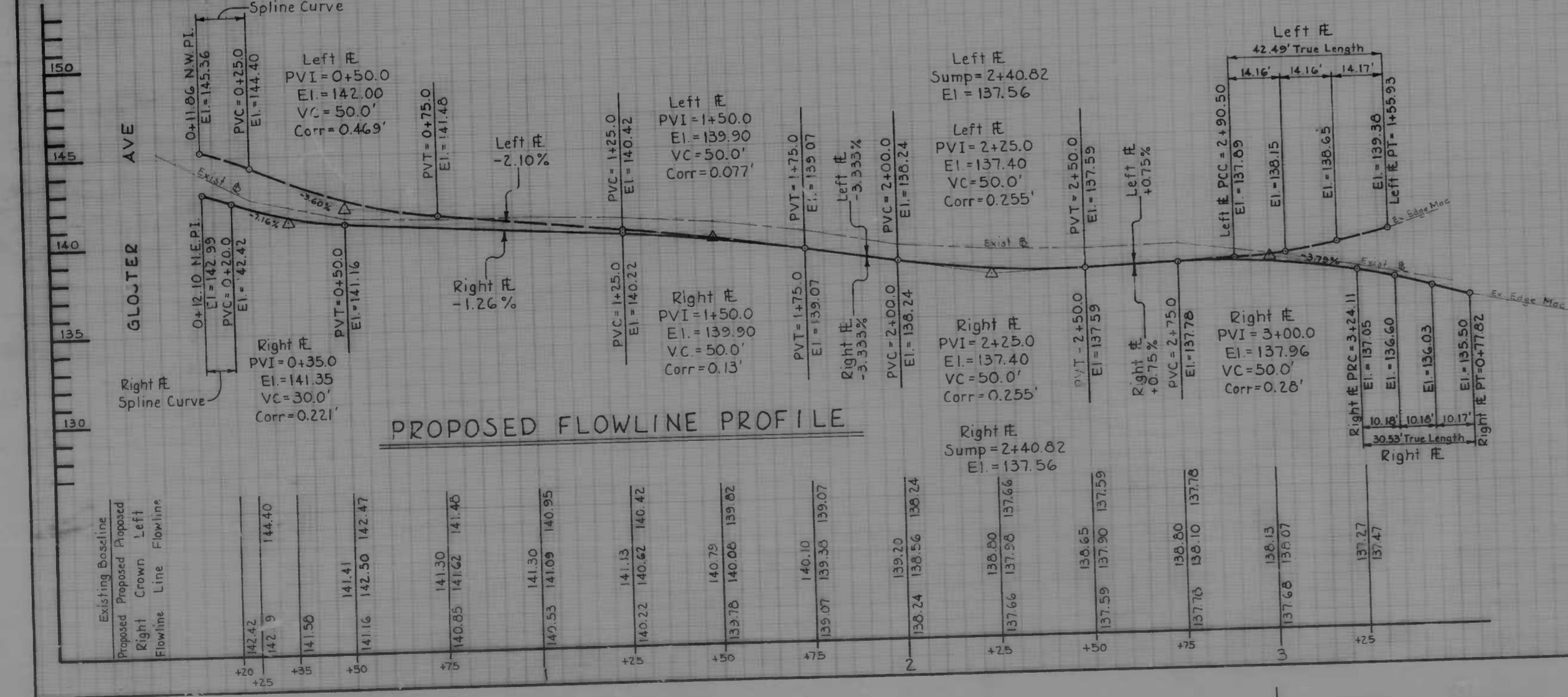
Ottawa Ave Baseline Coordinates

Station	West	South
0+00.0	-12791.777	-11435.638
2+26.33 PC	-12683.629	-11236.818
3+25.23 PT	-12652.975	-11143.357
3+50.0	-12649.624	-11118.815

Curve Data

Curve	Δ	Δ/2	R	T	C	L	g ²
1	20°46'15"	10°23'07.5"	272.82'	50.00'	98.36'	98.90'	6.30039359
2	13°28'36.8"	6°44'18.4"	258.82'	30.580'	60.738'	60.879'	6.64119225
3	12°43'32.2"	6°21'46.1"	20.0'	35.878'	34.938'	42.490'	85.9436690
4	20°32'09.5"	10°16'04.75"	282.82'	51.234'	100.827'	101.368'	6.07762315
5	63°36'54.5"	31°48'27.25"	27.50'	17.056'	28.965'	30.533'	62.50440654

Book No. X-866
 Drawn By: D. Smith, R. Miller
 Examined By: William F. Crampton



CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3104

OTTAWA AVENUE
 FROM GLOSTER AVENUE
 325± NORTHEASTERLY

PLAN & PROFILE

SCALE: 1"=20' HOR., 1"=4' VER. DATE: MAY 5, 1986
 HIGHWAY ENGINEERING DIVISION SHEET 7 OF 17

FILE REF.

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	Add Inlet & Connection, Revise Underdrain Limits	12-8-86	RM

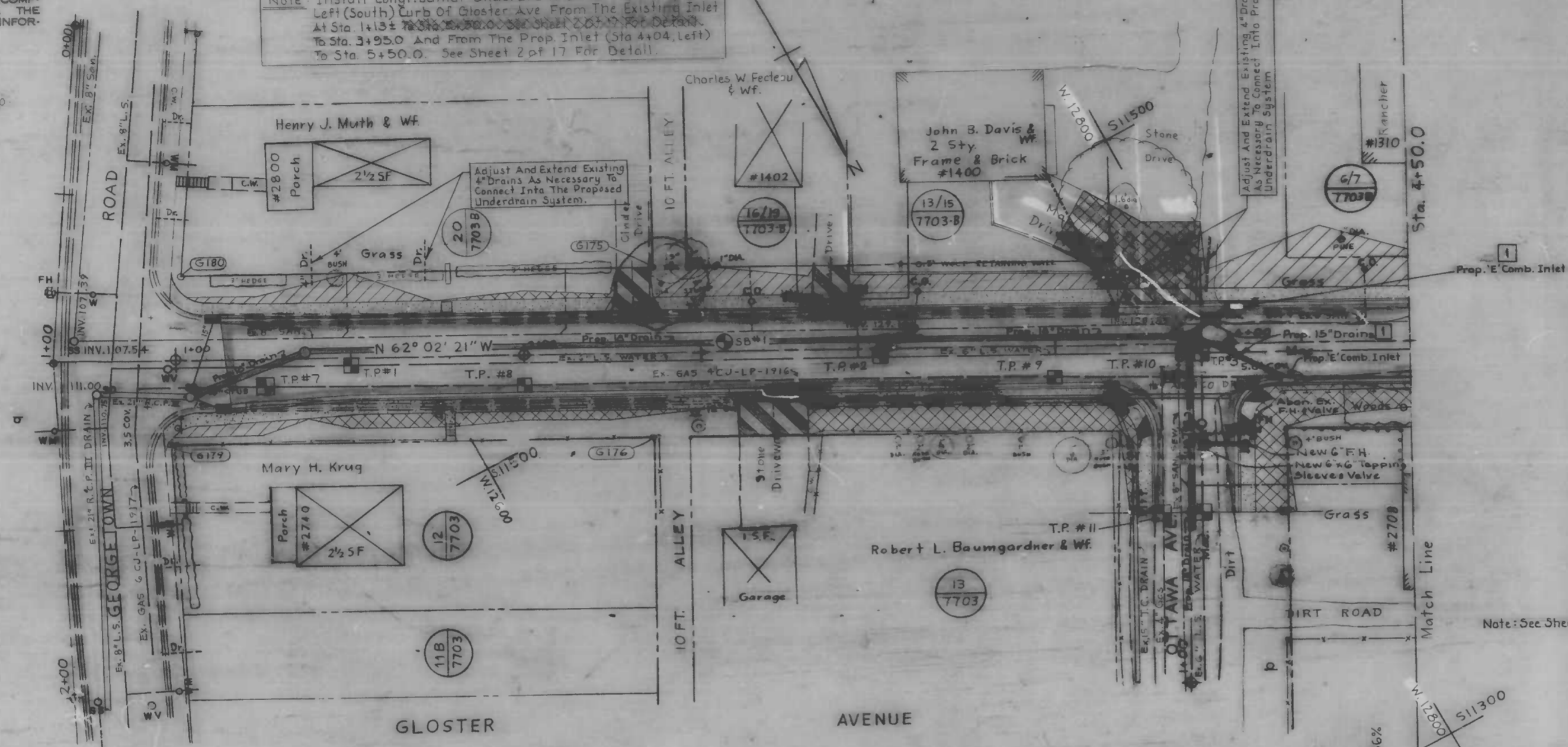
NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

NOTE: Baltimore Gas & Electric Co. C & P Telephone Co. Contact "Miss Utility" at 1-800-257-7777 at least 3 working days prior to starting work so that they can arrange to mark the location of their facilities.

Note: Install Longitudinal Underdrain Under The Proposed Left (South) Curb Of Gloster Ave From The Existing Inlet At Sta. 1+13.5 To Sta. 2+00.0 See Sheet 2 of 17 For Detail.

Adjust And Extend Existing 4" Drains As Necessary To Connect Into The Proposed Underdrain System.

Adjust And Extend Existing 4" Drains As Necessary To Connect Into Proposed Underdrain System.

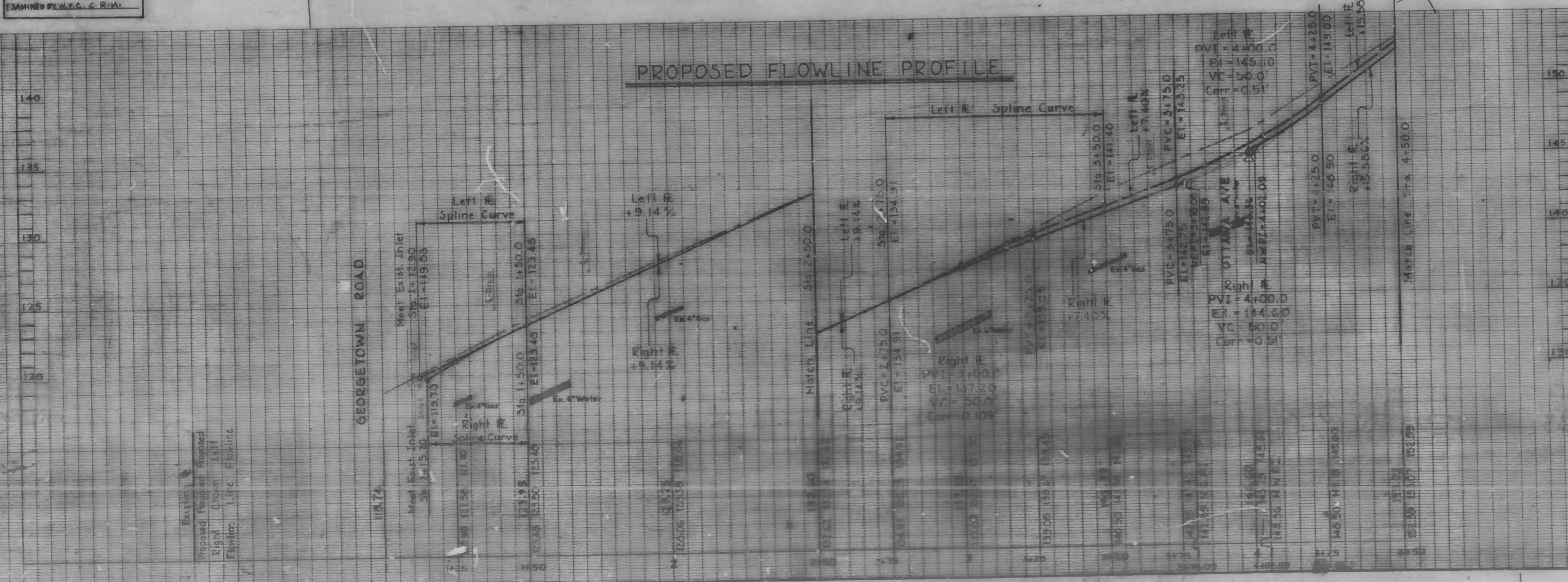


Note: See Sheet 11 Of 17 For Proposed Storm Water Plan And Profiles.

BOOK No. X-886

DESIGNED BY D.T. Smith
EXAMINED BY W.E.C. & R.W.

PROPOSED FLOWLINE PROFILE



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

GLOSTER AVENUE
FROM GEORGETOWN ROAD
550'± WESTERLY TO THE DEAD END

UTILITY PLAN & PROFILE
GEORGETOWN ROAD TO STA. 4+50
SCALE 1"=20' HOR., 1"=4' VERT. DATE MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 81 OF 17

FILE REF.

FILE REF.

REVISIONS		
NO.	DESCRIPTION	DATE BY

Note: Underdrain Shall Be Installed In Ottawa Ave From Sta. 1+25.0 To Sta. 2+80.0. See Sheet 4 Of 17 For Proposed Underdrain Layout.

WATER NOTES

1. Notify the Bureau of Water & Waste Water Maintenance Division at 396-0293 one week before starting work.
2. All existing water valves shall be operated by the Bureau of Water & Waste Water Maintenance Division forces only.
3. All water supply services and/or meters, and fire hydrant relocations shall be done in accordance with contract documents and the book of standards.
4. Contractor shall observe extreme caution when working near or over existing water facilities.
5. Existing water supply services and/or meters to be relocated in Ottawa Ave. Gloucester Ave.
 - A) Relocation of (1) one single setting 3/4" meter item-801.
 - B) Relocation of (2) three 3/4" water services 3/8" meter item-802.
 - C) Adjust (1) one 3/8" meter and vault to proposed grade item-803.

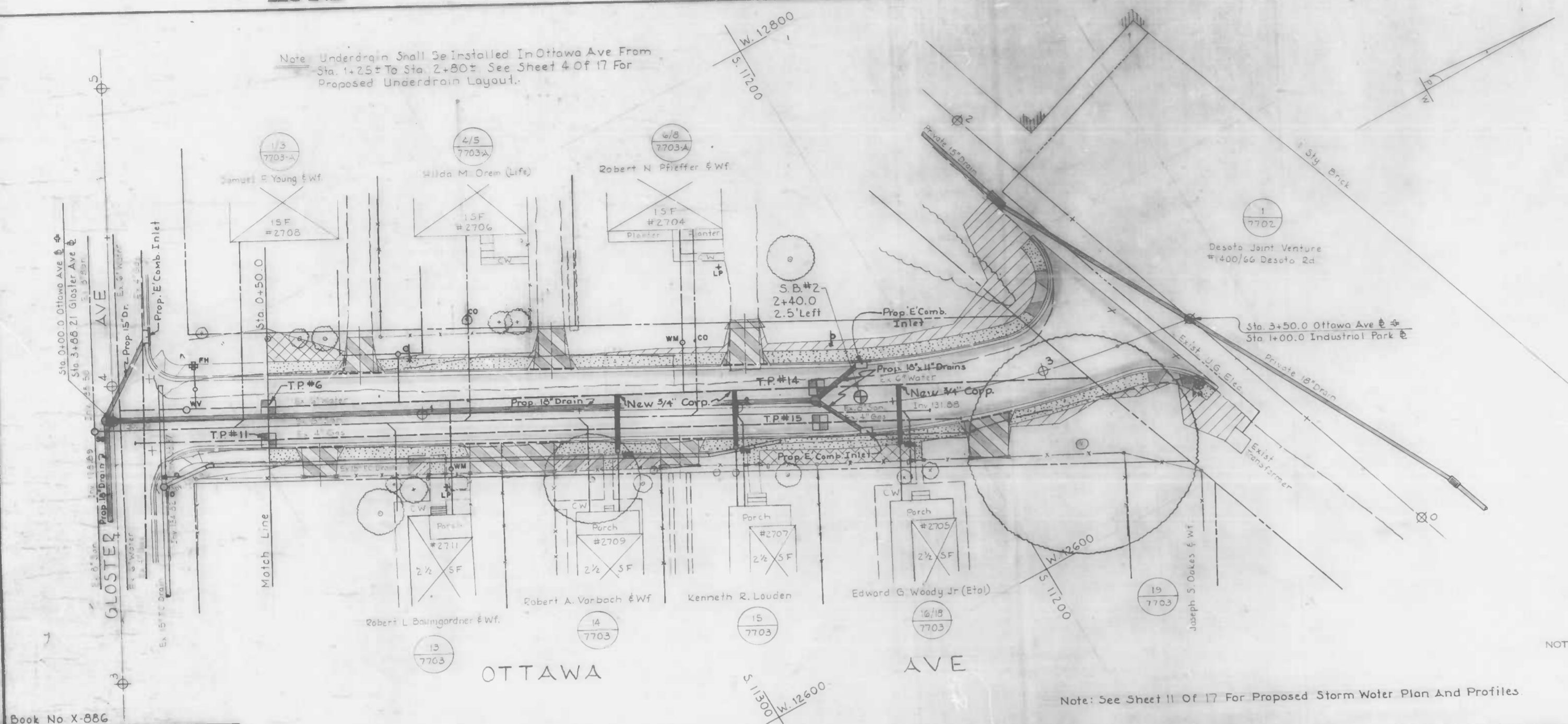
Working Pressure... 99 P.S.I.
Test Pressure... 150 P.S.I.



NOTE: Baltimore Gas & Electric Co., C & P Telephone Co. Contact "Miss Utility" at 1-502-257-7777 at least 3 working days prior to starting work so that they can arrange to mark the location of their facilities.

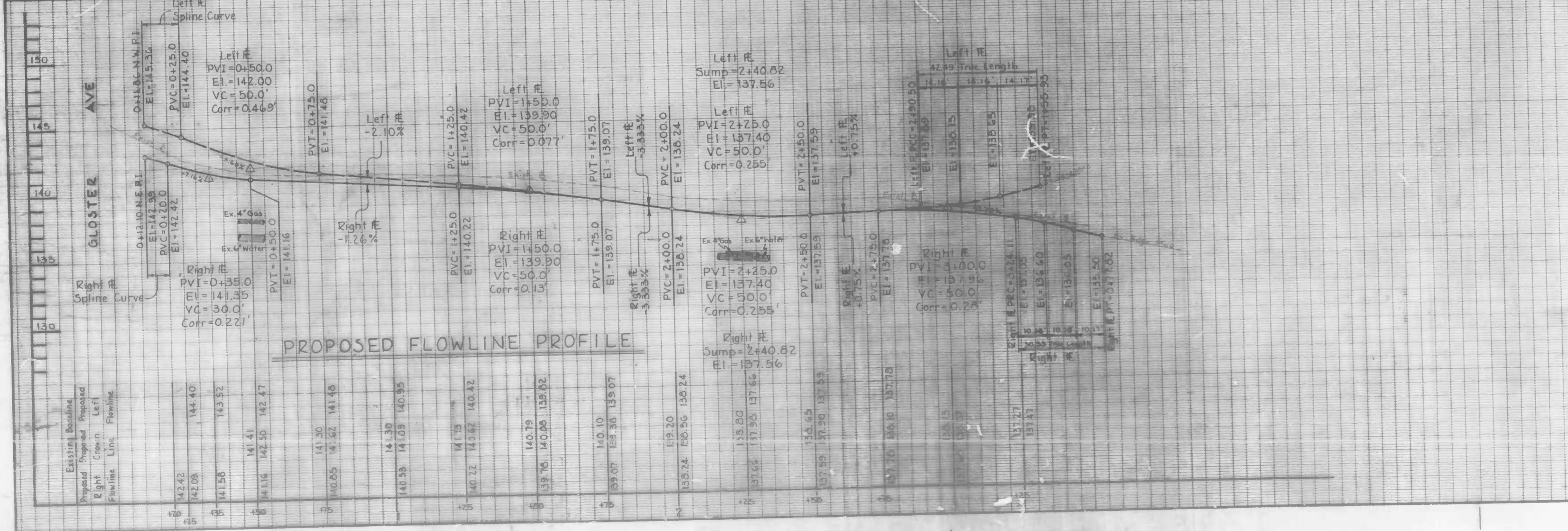
NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

WATER ENGINEERING DIVISION
DRAWN BY: CHERISE H. VNOTTS
CHECKED BY: [Signature]
CHIEF, WATER ENG. SEC.



Note: See Sheet 11 Of 17 For Proposed Storm Water Plan And Profiles

Book No X-886
Drawn By: D. Smith, R. Miller
Examined By: William F. Crampton

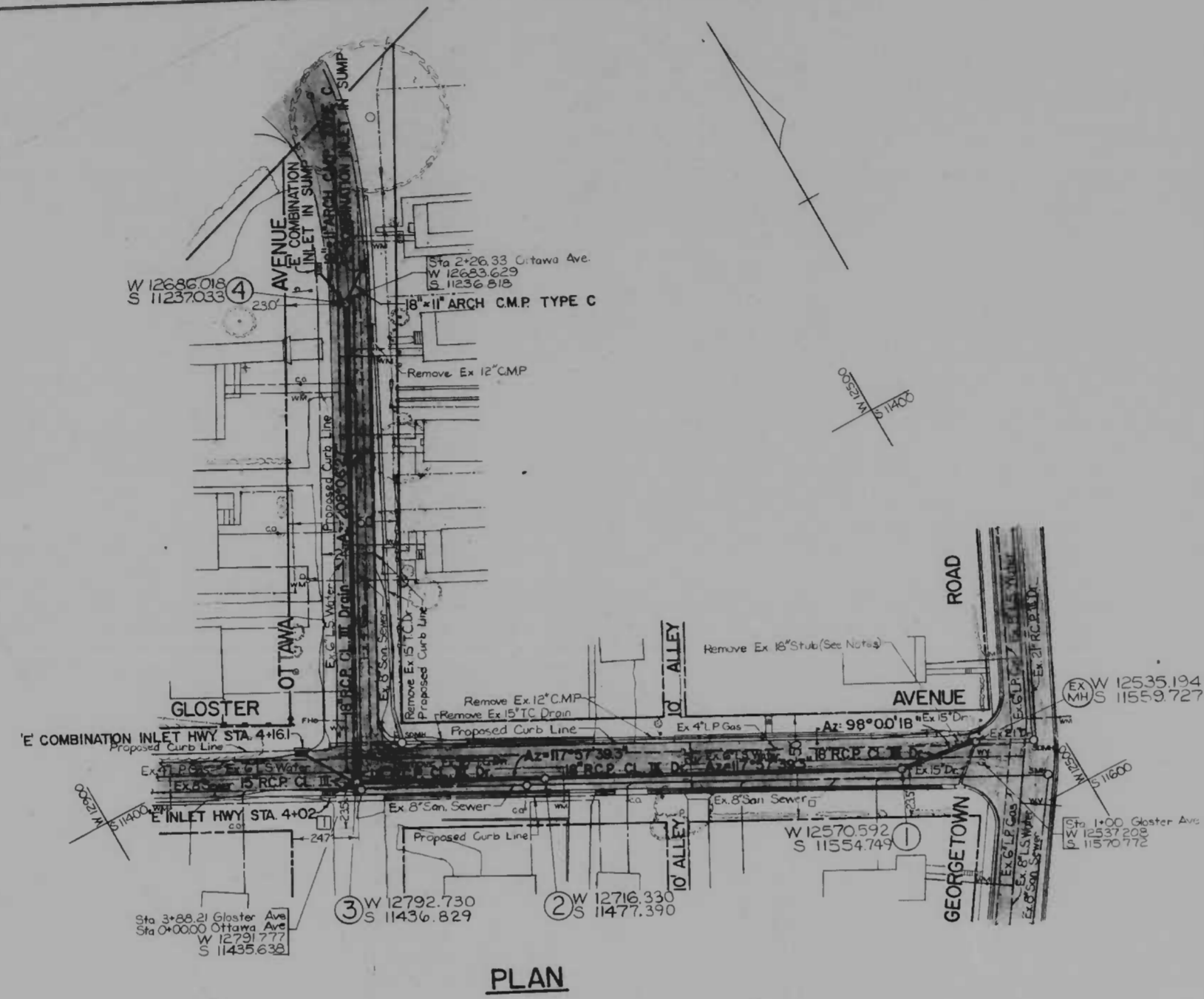


CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104
OTTAWA AVENUE
FROM GLOSTER AVENUE
325'± NORTHEASTERLY
UTILITY PLAN & PROFILE
SCALE 1"=20' HOR., 1"=4' VER. DATE: MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 10 OF 17

FILE REF.

FILE REF. ESD-80-279

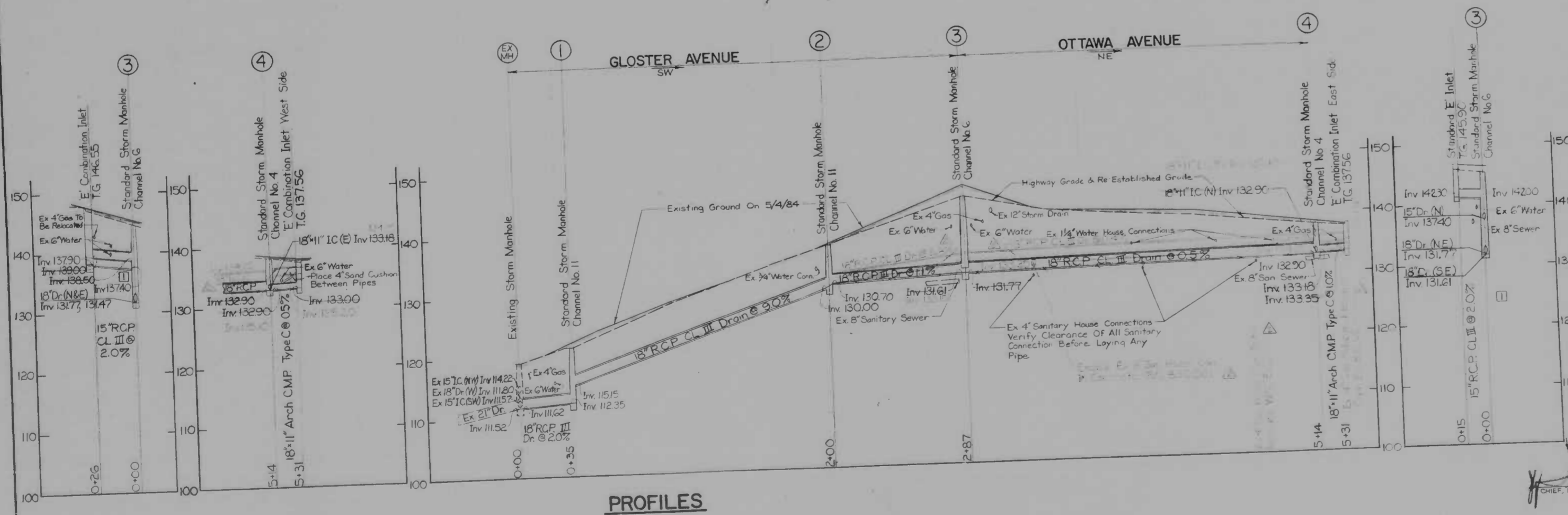
REVISIONS		
NO.	DESCRIPTION	DATE BY
1	Add E Inlet Connection, And Profile Change	12/5/86 W.P.
2	Provide 18" Drain From North To Match 18" Inlet Connections	4/2/87 WEJ



GENERAL NOTES:

- Standard Type No. 1 'E' Frame And Grates (BC 376.0) Shall Be Used For All New 'E' Inlets.
- All Inlets Are To Be Depressed 2-1/2'.
- Before Doing Any Digging Notify The Following:
(Miss Utility) 1-800-257-7777
Bureau Of Highways, Street Light Section 396-1311; Conduit Section 396-3658.
- All Channels In Manholes Must Be Constructed To Conform As Close As Possible To The Standard Channel Called For On The Profiles. Gravel Grade Is Required Under All Pipe Except Inlet Connections. All Backfill Shall Be Mechanically Tamped. For Standard Details See Baltimore City Book Of Standards.
- Obstructions Shown On These Drawings Are For The Convenience Of The Contractor Only, And The City Does Not Warrant Or Guarantee The Correctness Or The Completeness Of The Information Given. The Contractor Must Verify All Such Information To His Own Satisfaction.
- Type Of Joint For Pipe
Type Pipe: Reinforced Concrete Pipe Drain, Reinforced Concrete Pipe Inlet Connection.
Type Joint: O Ring Rubber Gasket, Cement Mortar Or O Ring Rubber Gasket.
- Removal Of The 12" CMP, And 15" TCP In Ottawa Avenue And The 15" TCP, And 15" CMP In Gloster Avenue Shall Be Paid For In The Cost/L.F. To Remove Existing Pipe.
- Removal Of The Storm Manhole At The Intersection Of Gloster Avenue And Ottawa Avenue Shall Be Paid For In The Cost/L.F. To Remove Existing Manholes.
- Remove 18" Stub From The Storm Manhole EX.MH. The Cost Is To Be Included In The Unit Price Bid For The New 18" Drain.

PLAN



PROFILES

SURVEY BOOK X-886 RECORD PLATS 15-Y & 15-A1
BENCH MARK 7041 ELEVATION 143.50 DRAINAGE DISTRICT 61-A
RELEASED BY RIGHT OF WAY DIVISION

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

GLOSTER AVENUE
FROM GEORGETOWN ROAD 550'± WESTERLY TO THE DEAD END
AND
OTTAWA AVENUE
FROM GLOSTER AVENUE 325'± NORTHEASTERLY

STORM WATER DRAINAGE PLAN AND PROFILES

SCALE 1"=40' HOR., 1"=10' VERT. DATE MAY 5, 1986
ENVIRONMENTAL SERVICES DIVISION SHEET 11 OF 17

Frederick J. ...
CHIEF, ENVIRONMENTAL SERVICES DIVISION

DRAWN BY WILLIAM EDWARDS
EXAMINED BY BILL PHILLIPS

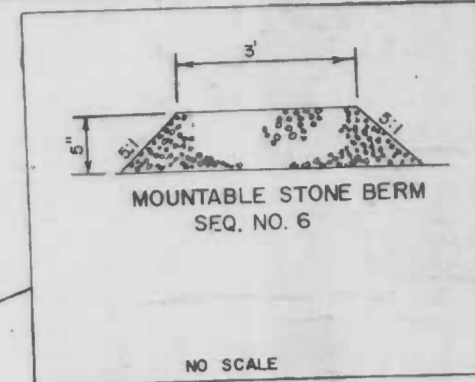
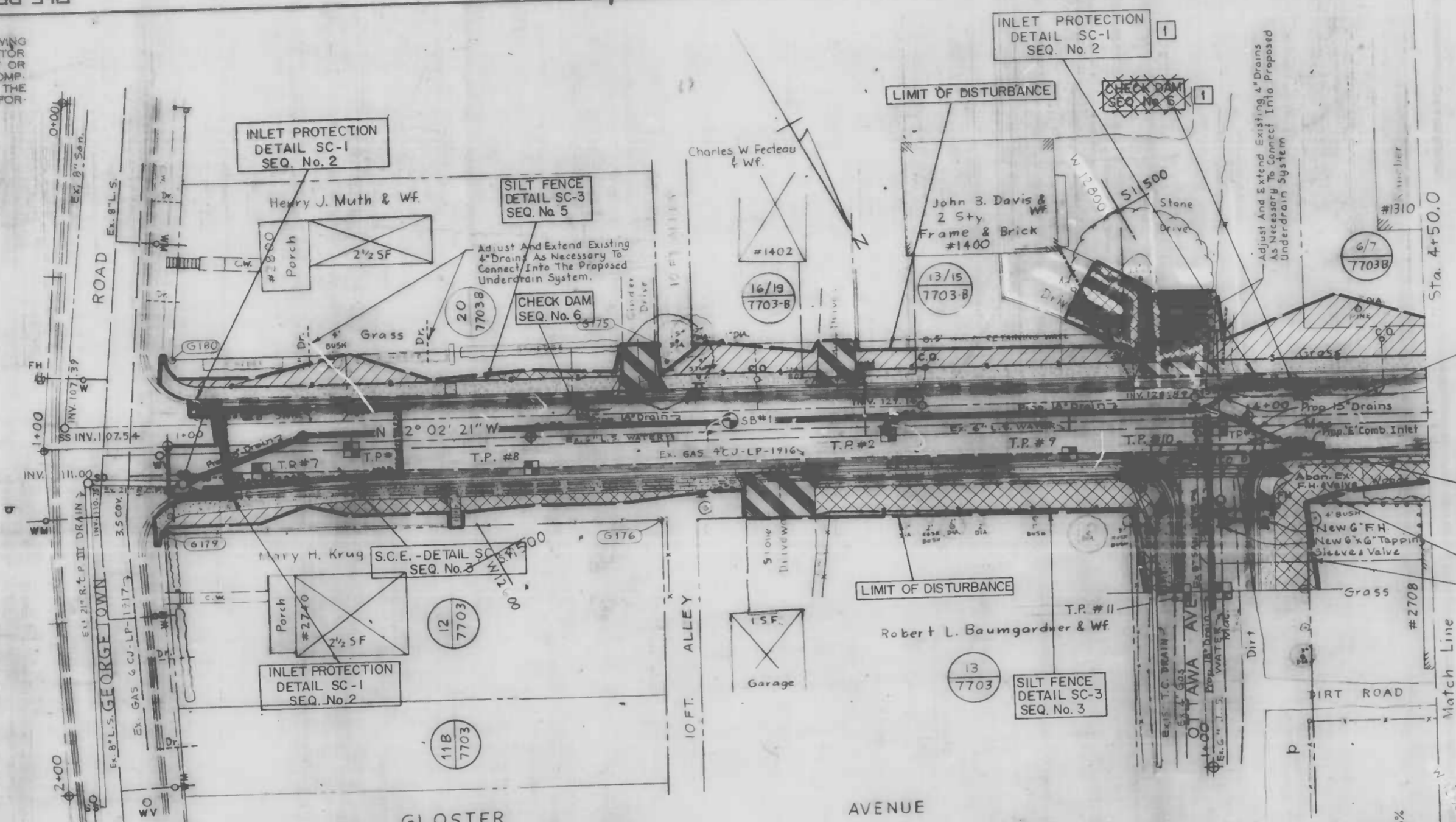
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REVISIONS		
NO.	DESCRIPTION	DATE BY
1	INLET PROTECTION ADDED, CHECK DAM DELETED	12-8-86 RM

NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

NOTE: Baltimore Gas & Electric Co. - C & P Telephone Co Contact "Miss Utility" at 1-800-259-1777 at least 3 working days prior to starting work so that they can arrange to mark the location of their facilities.

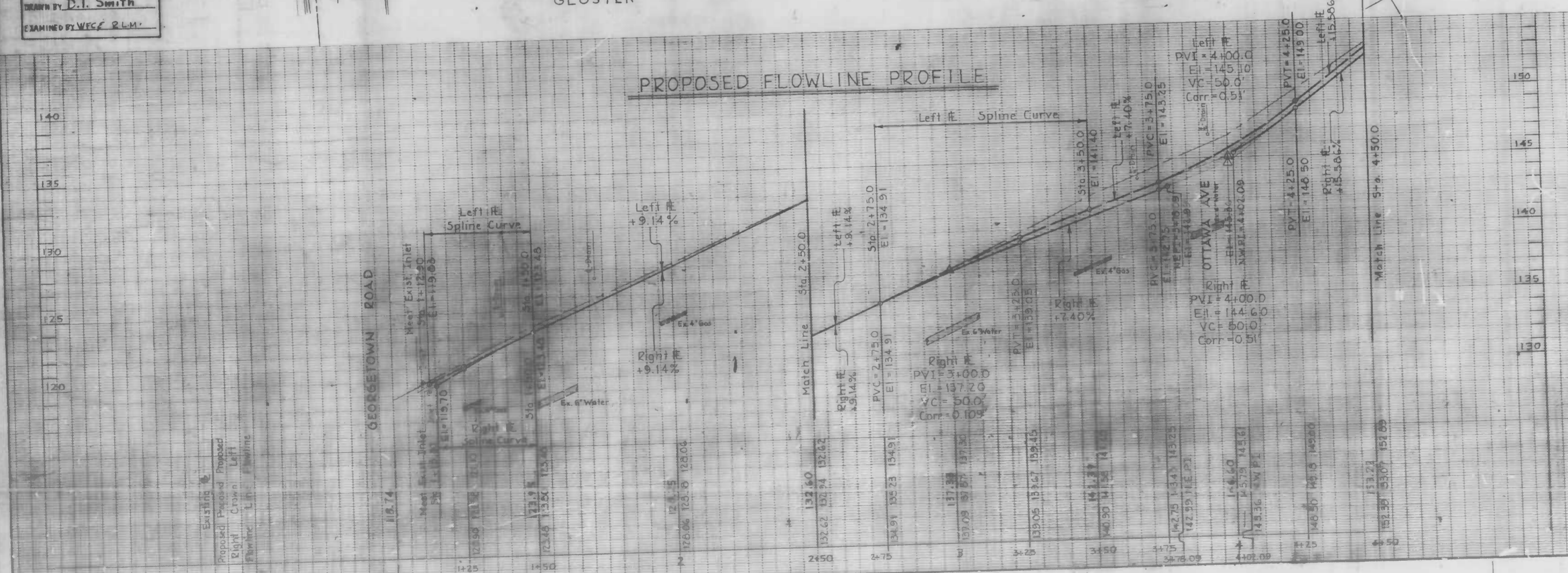


Note: See Sheet 11 of 17 for Proposed Storm Water Plan and Profiles.

BOOK No. X-886

DESIGNED BY: D.T. Smith
EXAMINED BY: W.F.C. R.L.M.

PROPOSED FLOWLINE PROFILE



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

GLOSTER AVENUE
FROM GEORGETOWN ROAD
550'± WESTERLY TO THE DEAD END

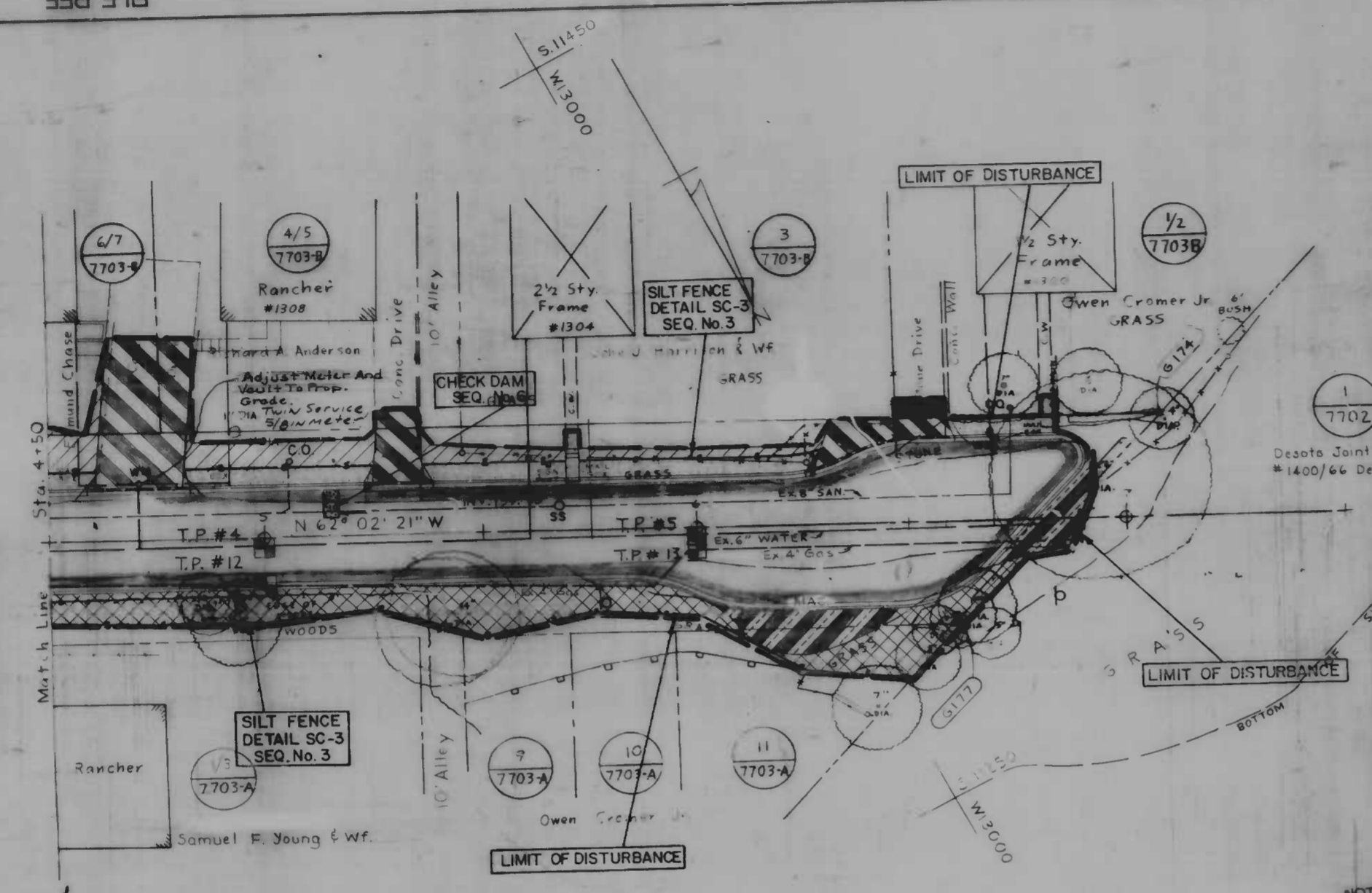
SOIL EROSION / SEDIMENT CONTROL PLAN
GEORGETOWN ROAD TO STA. 4+50

SCALE: 1"=20' HOR., 1"=4' VERT. DATE: MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 12 OF 17

FILE REF.

FILE REF.

REVISIONS		
NO.	DESCRIPTION	DATE BY



NOTE Baltimore Gas & Electric Co. - C & P Telephone Co. Contact "Miss Utility" at 1-800-257-7777 at least 3 working days prior to starting work so that they can arrange to mark the location of their facilities.

NOTE
 1. WORKING PRESSURE . . . 86 PSI
 2. TEST PRESSURE . . . 150 PSI
 3. SEE SHEET 10 FOR WATER NOTES

BOOK No. X-886

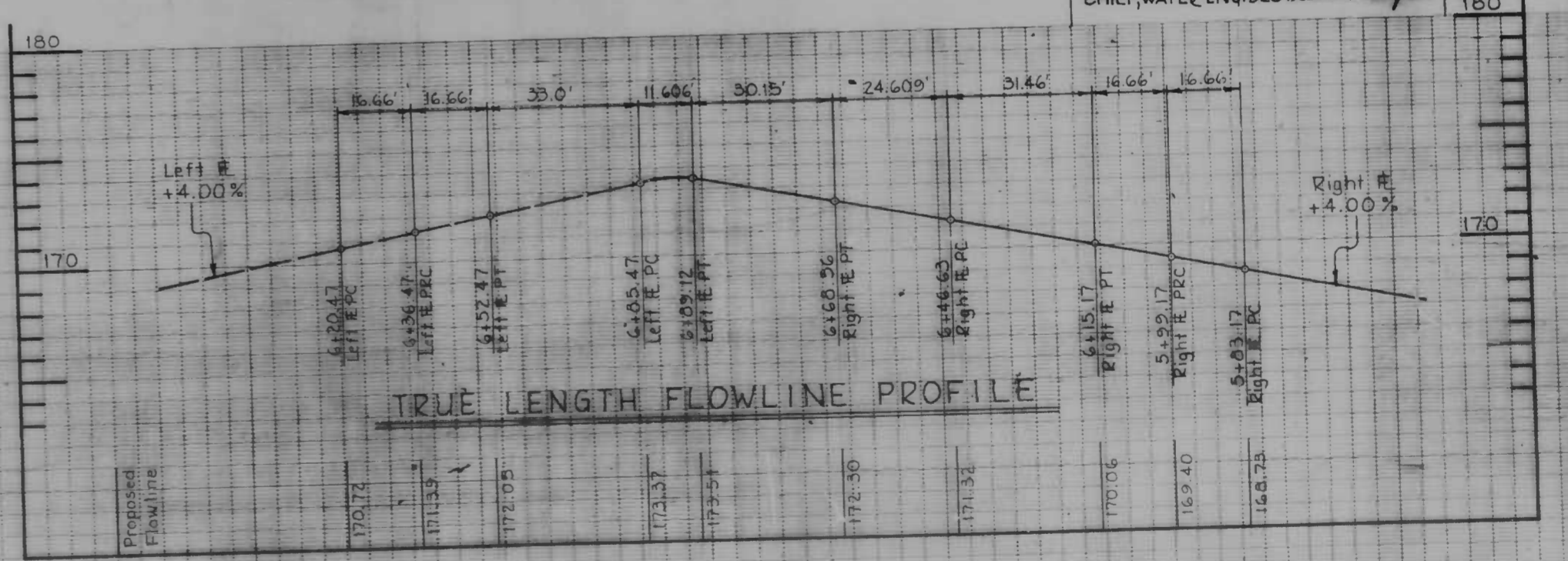
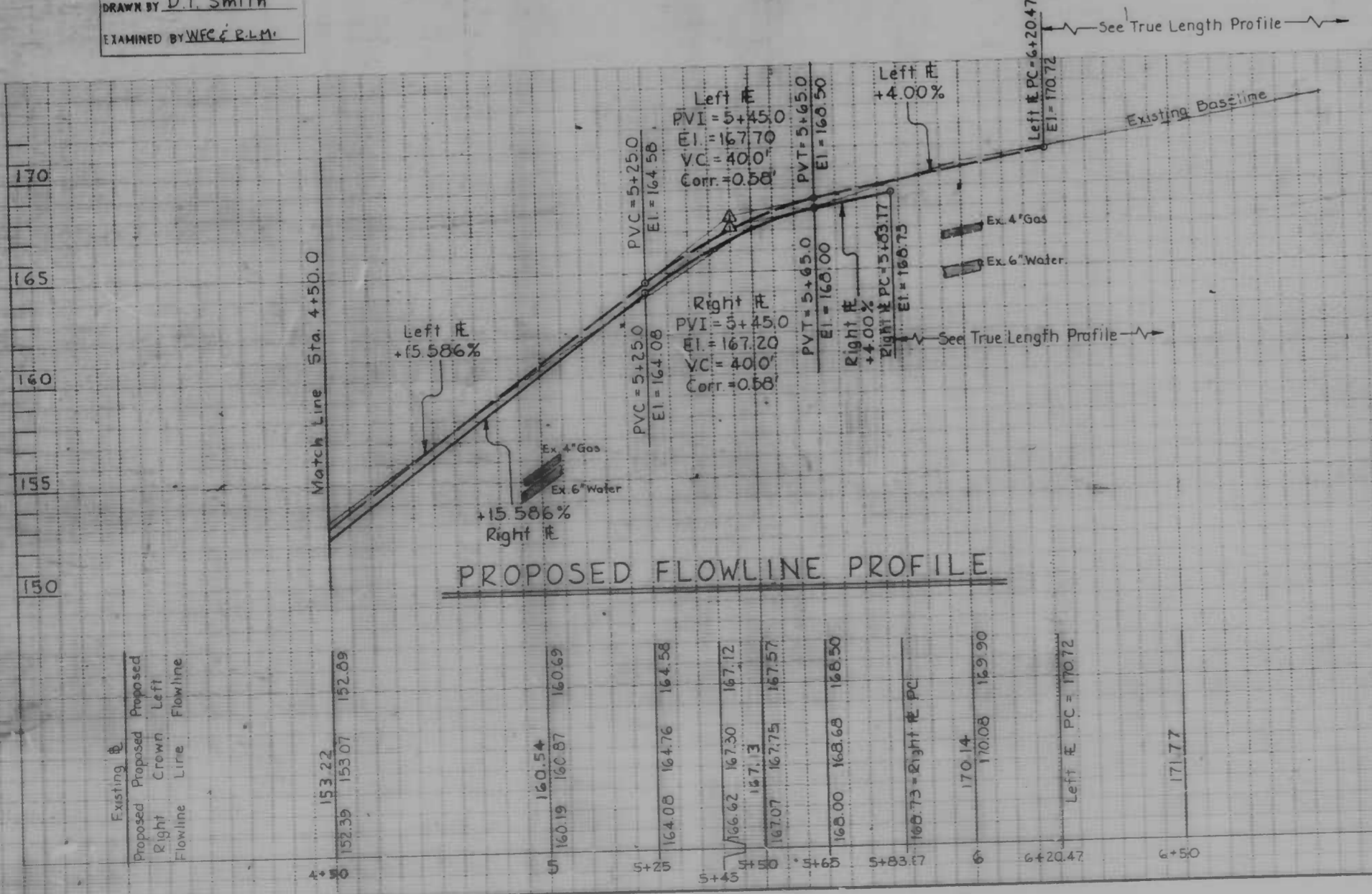
DRAWN BY D.T. Smith
 EXAMINED BY WEC & R.L.H.

GLOSTER AVENUE

NOTE OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

WATER ENGINEERING DIVISION ECG

DRAWN BY CHERISE H. KNOTT
 CHECKED BY Wm. Walker
 CHIEF, WATER ENG. SECT.



CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3104

GLOSTER AVENUE
 FROM GEORGETOWN ROAD
 550'± WESTERLY TO THE DEAD END

SOIL EROSION / SEDIMENT CONTROL PLAN
 STA. 4+50 TO THE DEAD END

SCALE 1"=20' HOR., 1"=4' VERT. DATE MAY 5, 1986
 HIGHWAY ENGINEERING DIVISION SHEET 13 OF 17

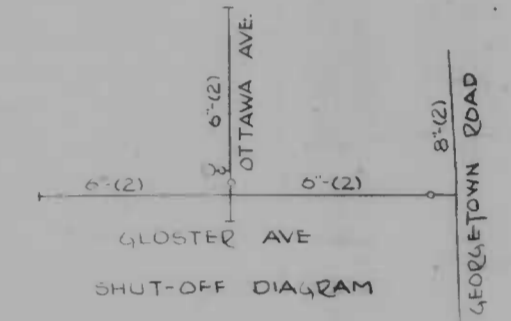
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

WATER NOTES

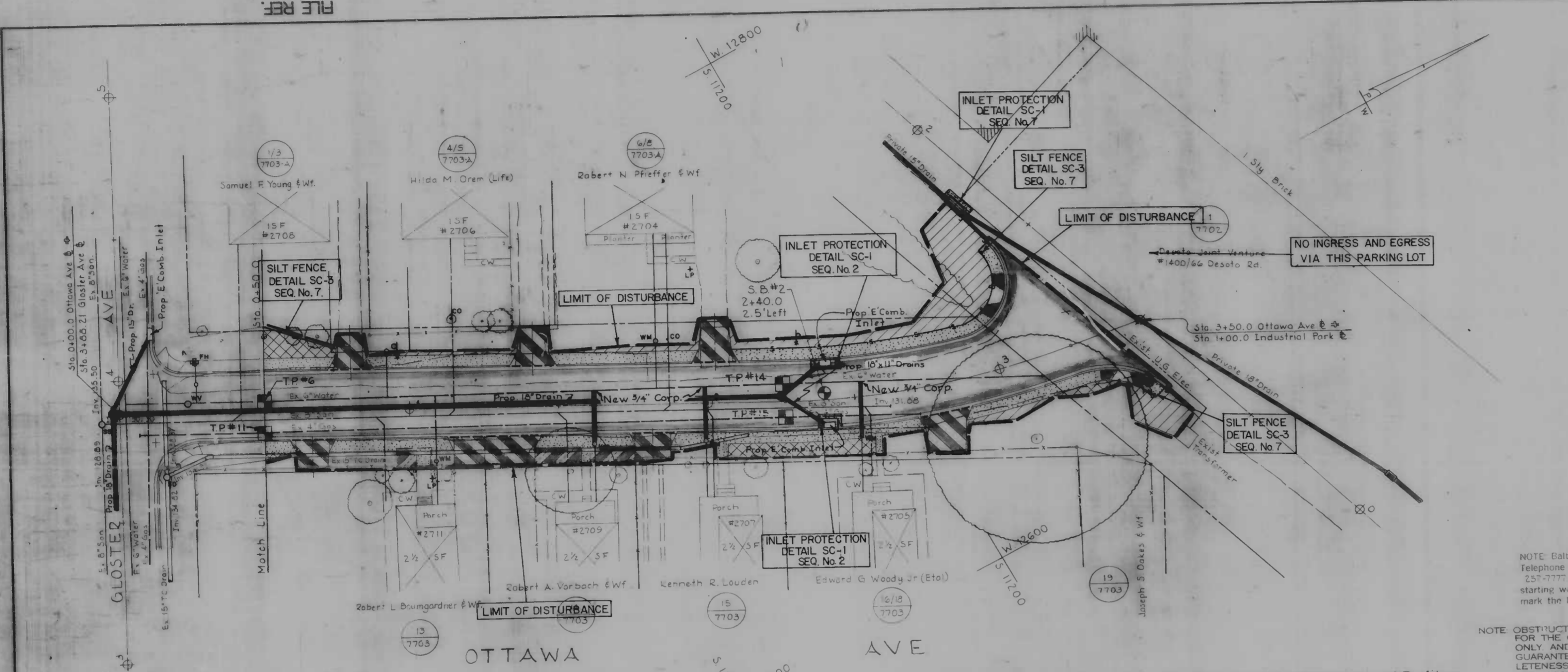
1. Notify the Bureau of Water & Waste Water Maintenance Division at 396-0243 one week before starting work.
 2. All existing water valves shall be operated by the Bureau of Water & Waste Water Maintenance Division forces only.
 3. All water supply services and/or meters, and fire hydrant relocations shall be done in accordance with contract documents and the book of standards.
 4. Contractor shall observe extreme caution when working near or over existing water facilities.
 5. Existing water supply services and/or meters to be relocated in Ottawa Ave & Gloster Ave.
 - A) Relocation of (1) one single setting 3/8" meter item-801.
 - B) Relocation of (3) three 3/4" water services 3/8" meter item-802.
 - C) Adjust (1) one 1/2" meter and vault to proposed grade item-803.
- Working Pressure... 94 PSI
Test Pressure... 150 PSI



NOTE: Baltimore Gas & Electric Co. (BGE) Telephone Co. Contact "Miss Utility" at 1-300-257-7777 at least 3 working days prior to starting work so that they can arrange to mark the location of their facilities.

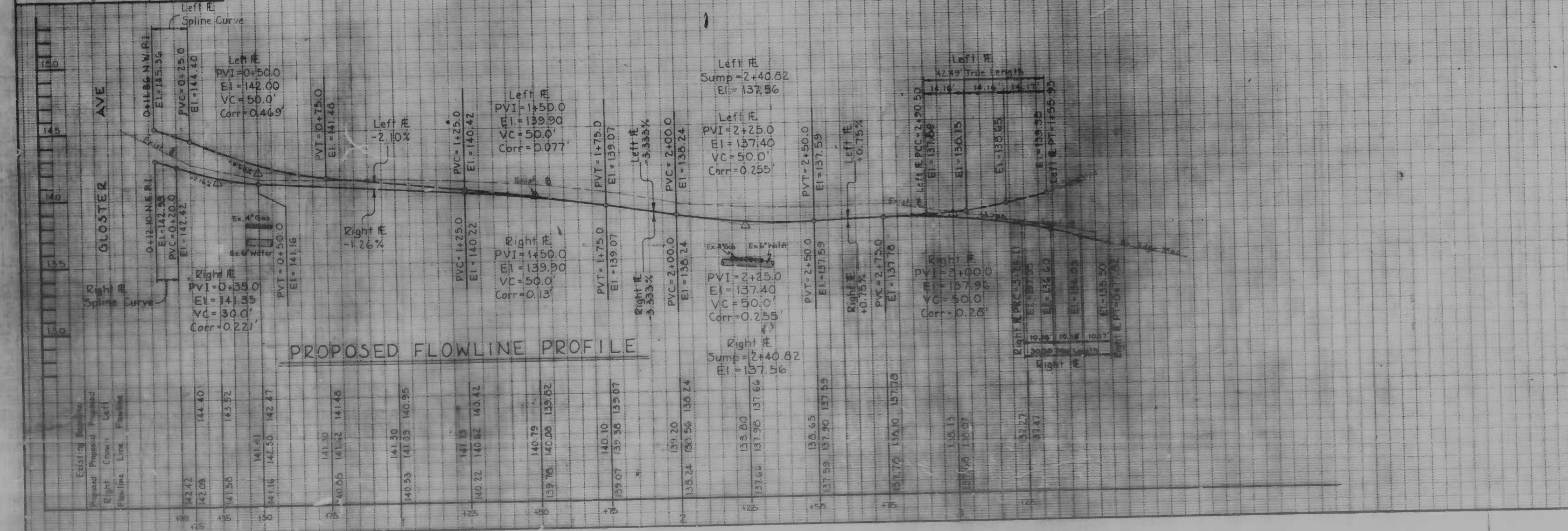
NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OF THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

WATER ENGINEERING DIVISION
DRAWN BY: CHERISE H. VNOTIS
CHECKED BY: [Signature]
CHIEF, WATER ENG. SEC. [Signature]



Note: See Sheet 11 of 17 For Proposed Storm Water Plan and Profiles.

Book No X-886
Drawn By: D. Smith & Miller
Examined By: W.F.C. & R.L.M.



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104

OTTAWA AVENUE
FROM GLOSTER AVENUE
325+ NORTHEASTERLY

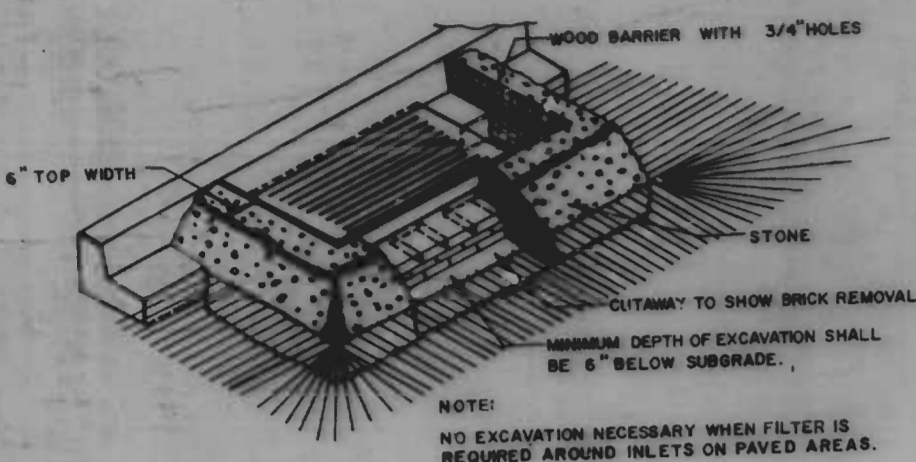
SOIL EROSION / SEDIMENT CONTROL PLAN

SCALE 1" = 20' HOR, 1" = 4' VER DATE MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 14 OF 17

FILE REF.

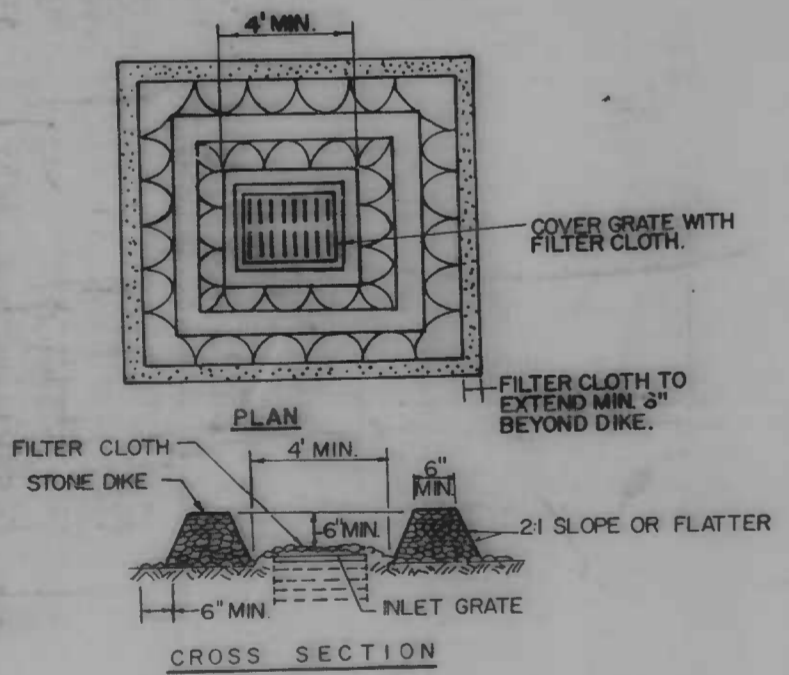
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



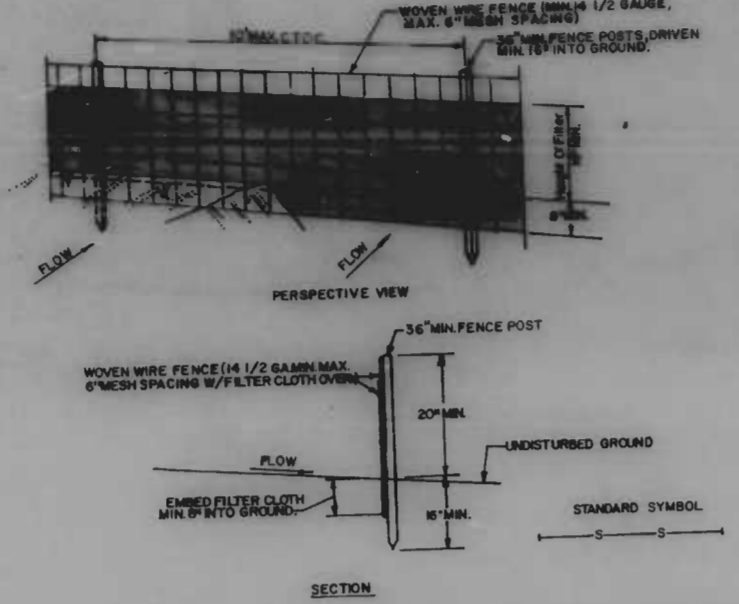
- CONSTRUCTION SPECIFICATIONS**
- Structure shall be inspected after each storm and repairs made as needed.
 - Construction Operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - The structure shall be removed when drainage area has been properly stabilized.
 - The crushed stone used in this outlet shall meet ASTM Designation, #3 size no. 2 or 24 or its equivalent such as MSHA no. 2. Gravel meeting the above specification may be used if crushed stone is not available. Crusher Run is not acceptable.

**INLET PROTECTION
DETAIL SC-1**



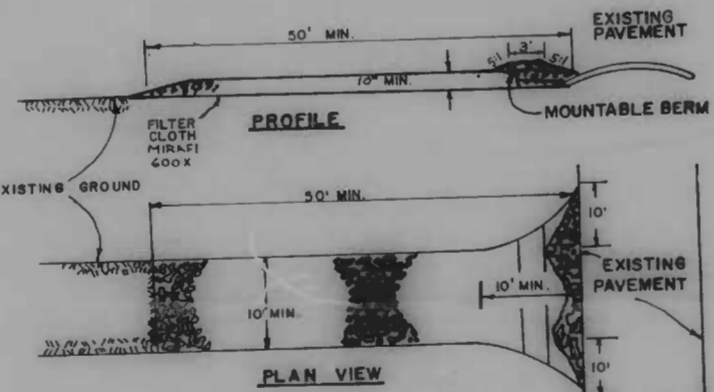
- CONSTRUCTION SPECIFICATIONS**
- Stone for the dike shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA size no. 2 or ASTM Designation #3 size no. 2 or 24. Crusher Run is not acceptable.
 - Filter Cloth shall be Poly-Filter X or approved equal.
 - The structure shall be inspected after each rain and repairs made as needed.

**INLET PROTECTION
DETAIL SC-2**



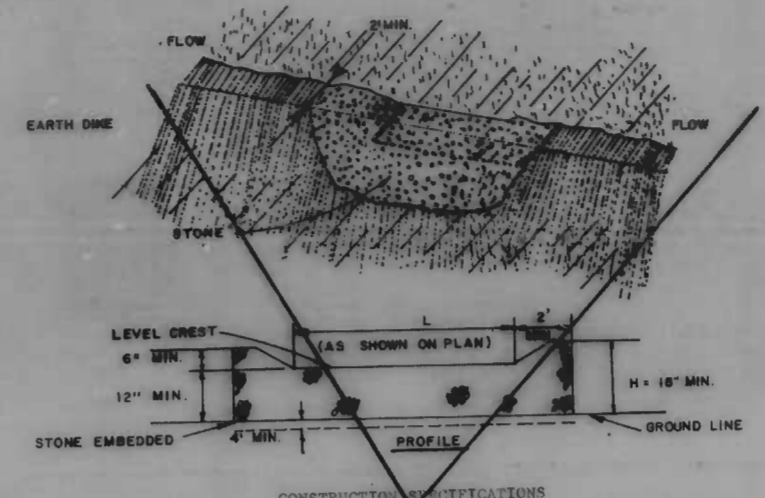
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- Woven Wire Fence to be fastened securely to fence posts with wire ties or staples.
 - Filter Cloth to be fastened securely to Woven Wire Fence with ties spaced every 24" at top and mid section.
 - When two sections of Filter Cloth adjoin each other they shall be overlapped by six inches and folded.
 - Maintenance shall be performed as needed and material removed when "bubbles" develop in the silt fence.
- POSTS:** Steel either T or U Type or 2" Ruled.
- FENCE:** Woven Wire, 1/2 Ga. 12" Max Mesh opening.
- FILTER CLOTH:** Filter X, Mirafil 100X, acabilink, T140W or approved equal.
- PREFABRICATED UNIT:** GROPAB, ENVIRONMENT, OR Equal.

**SILT FENCE
DETAIL SC-3**



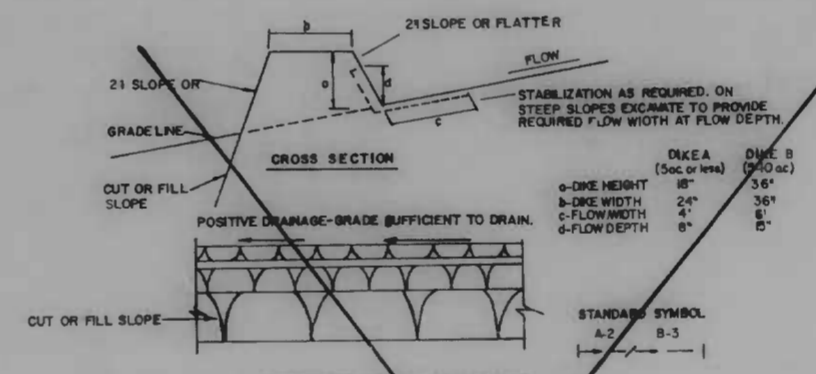
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - 2" stones, or recycled or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single residential lot where a 30 foot minimum length would apply).
 - Thickness - Not less than ten (10) inches.
 - Width - Ten (10) feet minimum, but not less than the full width at points where increase or decrease occurs.
 - Filter Cloth - Will be faced over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrance shall be directed across the entrance. If staking is impractical, a portable berm with 1:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, removed, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE
DETAIL SC-4
HEAVY DUTY ENTRANCE**



- CONSTRUCTION SPECIFICATIONS**
- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet ASTM Size No. 2 or ASTM Designation #3 Size No. 2 or 24.
 - The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres contributing drainage area.
 - The stone outlet structure shall be inspected after each rain, and the stone shall be replaced if the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.

**STONE OUTLET STRUCTURE
DETAIL SC-5**



- CONSTRUCTION SPECIFICATIONS**
- All Earth Dikes shall be constructed by earth moving equipment.
 - All Dikes shall have positive drainage to an outlet.
 - Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction equipment.
 - Dike location should be adjusted as needed to utilize a stabilized, safe outlet.
 - Dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trap or device such as a sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
 - Stabilization shall be: (a) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seedling season, (b) Flow channel as per the chart below. Stone dike need not be stabilized.

FLAT CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL WIDTH	DIKE A	DIKE B
1	1.5-3.0 FEET	Seed and Straw Mulch	Seed and Straw Mulch
2	3.1-5.0 FEET	Seed and Straw Mulch	Seed and Straw Mulch, or Recycled Concrete Aggregate
3	5.1-8.0 FEET	Seed with Fertilizer, or Seed and Straw Mulch	Recycled Concrete Aggregate
4	8.1-20 FEET	Recycled Concrete Aggregate	Recycled Concrete Aggregate

- CONSTRUCTION SPECIFICATIONS**
- Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 12 inches in thickness and be placed over the soil with construction equipment.
 - Straw to be 4-6 inches in a layer at least 6 inches thick and be placed into the soil.
 - Approved equivalents can be substituted for any of the above materials.
 - Periodic inspection and required maintenance must be provided after each rain event.

**EARTH / STONE DIKE
DETAIL SC-6/DETAIL SC-7**

- LEGEND**
- LIMITS OF DISTURBANCE
 - [Symbol] INLET PROTECTION (SC-1 OR SC-2 AS NOTED)
 - S-S- SILT FENCE (SC-3)
 - [Symbol] STABILIZED CONSTRUCTION ENTRANCE (SC-4)
 - [Symbol] STONE OUTLET STRUCTURE (SC-5) N.I.C.
 - [Symbol] EARTH/STONE DIKE N.I.C. (SC-6 OR SC-7 AS NOTED)
 - [Symbol] STOCKPILE AREA
 - [Symbol] SUMP PIT (SP-1) N.I.C.
 - [Symbol] SEDIMENT TRAP (ST-1) N.I.C.
 - [Symbol] CHECK DAM
 - [Symbol] CONTRACTOR STAGING AREA
 - [Symbol] INSTREAM SEDIMENT TRAP (SC-8) N.I.C.

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3104
GLOSTER AVENUE
FROM GEORGETOWN RD. 550'± WESTERLY TO THE DEAD END
AND
OTTAWA AVENUE
FROM GLOSTER AVE 325'± NORTHEASTERLY
SOIL EROSION / SEDIMENT CONTROL DETAILS

SCALE: NO SCALE DATE: MAY 5, 1986
HIGHWAY ENGINEERING DIVISION SHEET 15 OF 17

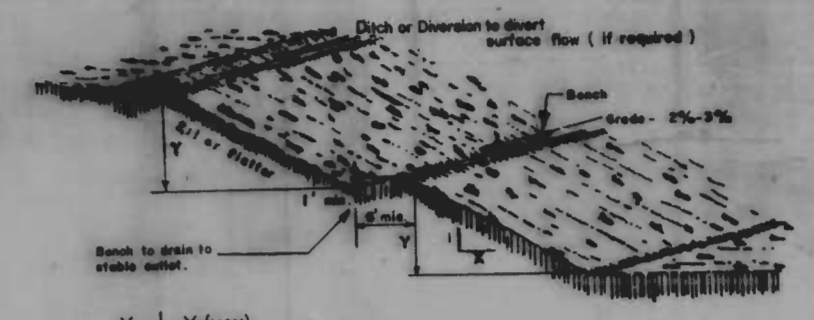
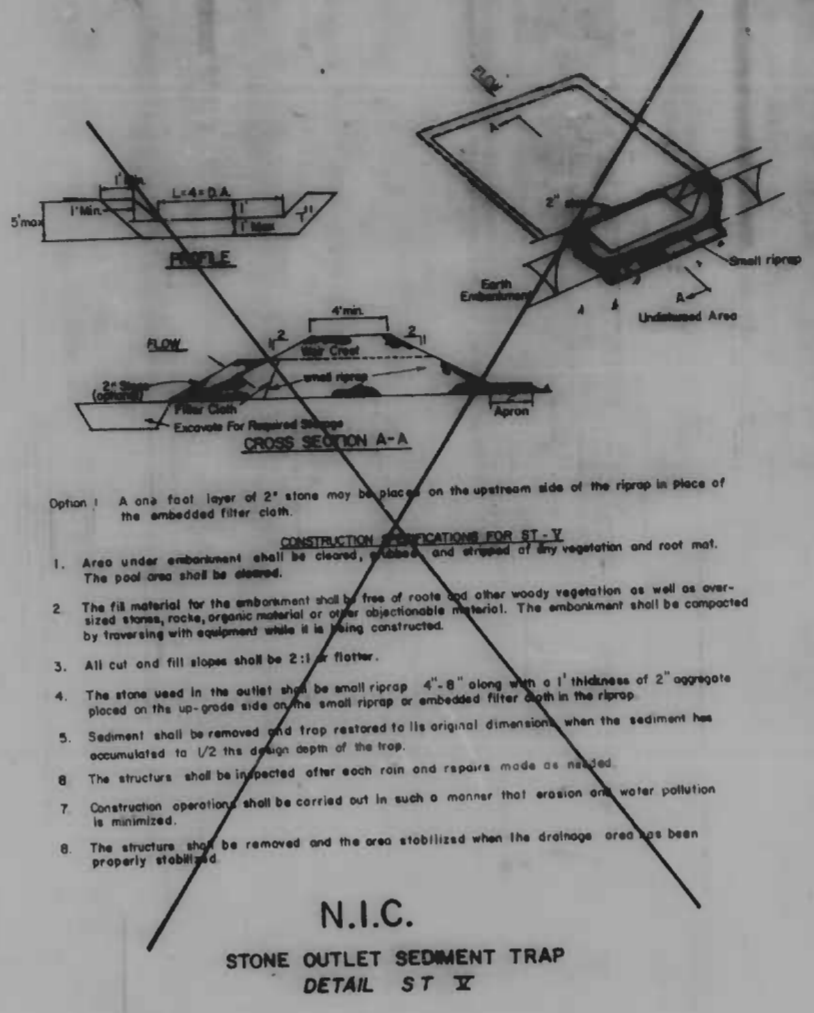
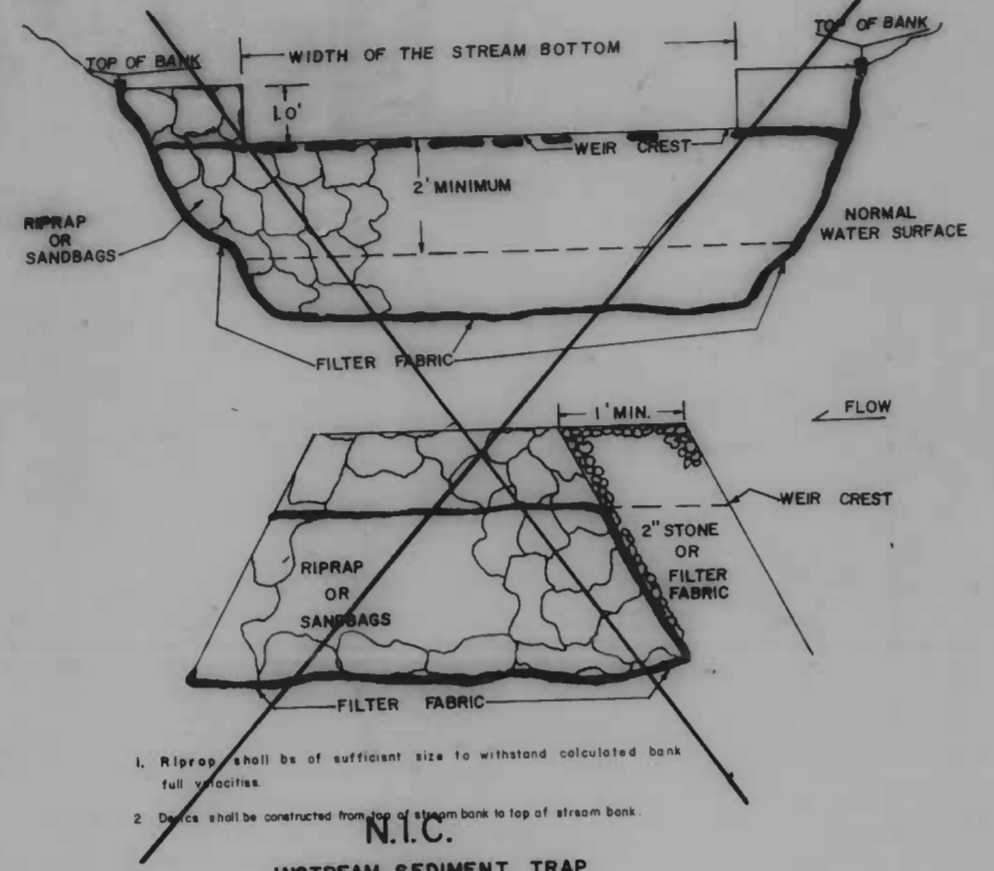
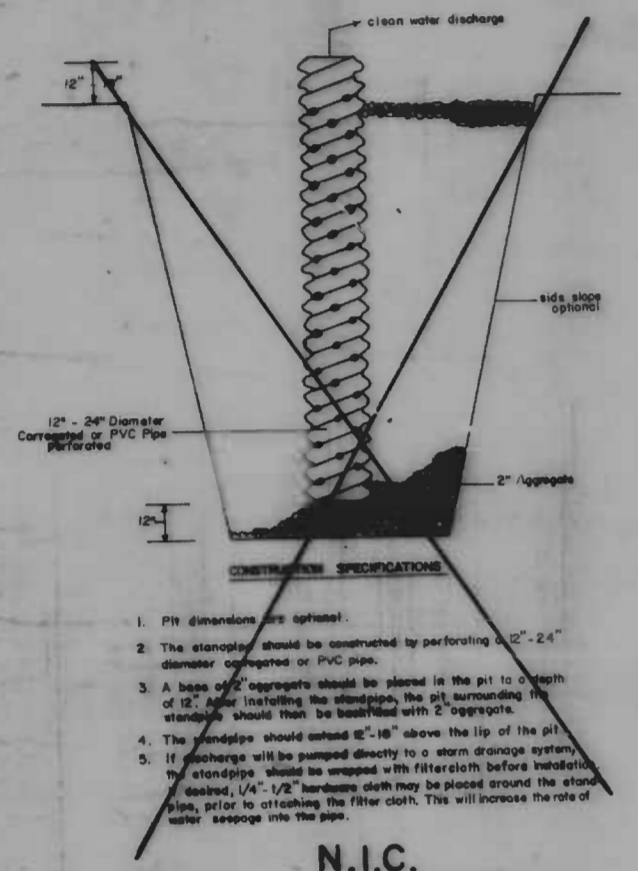
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DRAWN BY A. MOSCATO
EXAMINED BY W.F. G.P.L.M.

KEUFFEL & ESSER © 1982

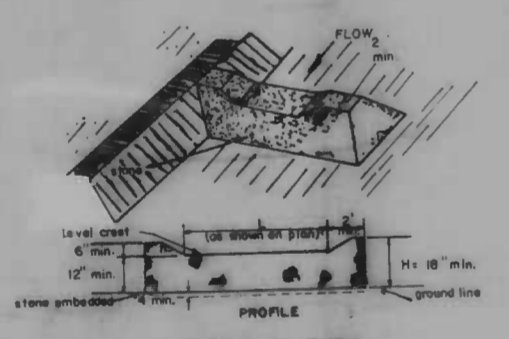
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REVISIONS		
NO.	DESCRIPTION	DATE BY



X	Y (MAX)
2	20'
3	30'
4	40'

- Construction Specifications**
- All graded or disturbed areas including slopes shall be protected during clearing and construction in accordance with the approved sediment control plan until they are permanently stabilized.
 - All sediment control practices and measures shall be constructed, applied and maintained in accordance with the approved sediment control plan and the Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas.
 - Topsoil required for the establishment of vegetation shall be stabilized in as much as is necessary to complete finished grading of all exposed areas.
 - Areas to be filled shall be cleared, grubbed and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
 - Areas which are to be equipped shall be specified to a minimum depth of three inches prior to placement of topsoil.
 - All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or codes.
 - All fills to be stored, and equipped in layers not to exceed 8 inches in thickness.
 - Except for approved leaffills, fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fills.
 - Frozen materials or soft, muddy or highly compressible materials shall not be incorporated into fills.
 - Fills shall not be placed on a frozen foundation.
 - All benches shall be kept free of sediment during all phases of development.
 - Seeps or springs encountered during construction shall be handled in accordance with the Standards and Specifications for Subsurface Drain or other approved method.
 - All graded areas shall be permanently stabilized immediately following finished grading.
 - Excavations, borrow areas and spoil areas shall be shown on the plans and shall be subject to the provisions of the Standards and Specifications.



- Construction Specifications**
- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet ASTM size no 2 or 4.
 - The crest of the stone dam shall be at least six inches lower than the lowest elevation of the top of the earth side and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
 - The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to soil accumulation, erosion, the stone, seasonal construction, traffic damage, etc.

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3104
 GLOSTER AVENUE
 FROM GEORGETOWN RD. 550'± WESTERLY TO THE DEAD END
 AND
 OTTAWA AVENUE
 FROM GLOSTER AVE. 325'± NORTHEASTERLY
 SOIL EROSION / SEDIMENT CONTROL DETAILS

SCALE NO. SCALE DATE: MAY 5, 1986
 HIGHWAY ENGINEERING DIVISION SHEET 16 OF 17

DRAWN BY A. MOSCATO
 EXAMINED BY W.F.C.F.L.W.

FILE REF.

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REVISIONS		DATE	BY
NO.	DESCRIPTION		

STABILIZATION SPECIFICATIONS

TEMPORARY STABILIZATION - ARTICLE 36.12

Planting Season: Temporary seeding can be done anytime of the year except when the ground is frozen. This item shall consist of furnishing and placing all fertilizer, temporary seed and mulch on areas disturbed for more than fourteen (14) days.

Schedule of Procedure: The contractor shall provide temporary stabilization as specified in the approved sediment control plan.

Seedbed Preparation: When the area to be seeded is packed and hard, the top layer of topsoil shall be loosened by raking or other means before seed is applied.

Lime: No lime shall be required for temporary seeding.

Fertilizer: Commercial fertilizer of an analysis 5-10-5 applied at a rate of 35 pounds per 1000 square feet.

Seeding: (Section 20.2B-1) Seed mixture, Annual Ryegrass applied at the rate of 3 pounds per 1000 square feet.

Mulching: Applied at the rate of 100 pounds per 1000 square feet. Mulch anchoring - asphalt mix at the rate of 10 gallons per 1000 square feet. The mulch shall be applied by blowing and the asphalt binder material shall be sprayed into the mulch.

PERMANENT STABILIZATION - ARTICLE 36.08

Planting Season: No sod shall be placed between the dates of June 1 and August 15 inclusive nor at anytime when the temperature is below thirty-two (32) degrees Fahrenheit. No frozen sod shall be used and no sod shall be placed upon frozen soil.

Sodbed Preparation: Before placing or depositing sod upon any surfaces, all shaping and dressing of such surfaces shall have been completed. The completed areas to be sodded shall present a smooth, uniform, well-tilled surface true to line and cross section and any raking required to accomplish this will be done prior to the placing of the sod.

Fertilizer: All areas to be sodded shall be fertilized with a commercial fertilizer of an analysis 10-10-10 and Ureiform fertilizer 38-0-0 applied at the rate of 20 and 5 pounds respectively per 1000 square feet.

NOTE: After sod is in place, topdress the sod with Ureiform fertilizer 38-0-0 at the rate of 5 pounds per 1000 sq. ft.

Lime: Limed at the rate of 100 pounds of ground limestone per 1000 square feet. The lime and the 10-10-10 and 38-0-0 fertilizers shall be worked into the top two (2) inches of soil prior to placing sod.

Seedmixture Grass Sod: (Section 20.2B-3)

TYPE A - Bluegrass Sod
 not less than 60% Kentucky Bluegrass
 not more than 35% Creeping Red Fescue
 not more than 10% other grasses and legumes

TYPE B - Tall Fescue Sod
 not less than 80% Tall Fescue
 not more than 20% other grasses and legumes

DESIGNATED AREA	ACTIVE	INACTIVE	TYPE OF STABILIZATION	SEQUENCE
PROPOSED PAVING	X	X	TEMPORARY - CR-6	#4 #7
CONCRETE WALKS	X	X	PERMANENT - BITUMINOUS CONCRETE	#9
CONCRETE DRIVES	X	X	TEMPORARY - ANNUALE RYE GRASS	#4 #7
BITUM. DRIVES	X	X	PERMANENT - CONCRETE	#9
REMOVE EX. PAVING, ETC.	X	X	TEMPORARY - CR-6	#4 #7
CUT SLOPES	X	X	PERMANENT - CONCRETE	#9
FILL SLOPES/FLAT FILL	X	X	TEMPORARY - CR-6	#4 #7
			PERMANENT - BITUMINOUS CONCRETE	#9
			TEMPORARY - ANNUALE RYE GRASS	#4 #7
			PERMANENT - SOD	#10
			TEMPORARY - ANNUALE RYE GRASS	#4 #5 #7 #8
			PERMANENT - SOD	#10
			TEMPORARY - ANNUALE RYE GRASS	#4 #5 #7 #8
			PERMANENT - SOD	#10

SITE DATA

TOTAL DISTURBED AREA..... 4711.11 SY
 CUT..... 1574.27 CY
 FILL..... 140.24 CY
 TOTAL EXCESS CUT MATERIAL..... 1434.03 CY

Note: Quantities listed herein are to be used only to assist in developing the soil erosion/sediment control plans. There is no guarantee that these quantities are complete and the contractor should not rely on the accuracy of these figures in preparing and submitting his bid.

DRAWN BY D. Smith, R. Miller
 EXAMINED BY W. F. Compton

BALTIMORE CITY SEDIMENT CONTROL

Title 8, Subtitle 11, Natural Resources, Annotated Code of Maryland and Baltimore City Ordinance 1013, require that provisions to control erosion and sediment shall be included for all City land disturbances. As required by State Law, construction cannot be started until such erosion and sediment control provisions are approved.

The Contractor must filter all run-off and control all sediment within the project. All work must comply with all requirements of the "Baltimore City Erosion and Sediment Control Manual" and the "1983 Maryland Standards and Specifications For Soil Erosion and Sediment Control", as distributed and modified by the Baltimore City Sediment Control Section.

Nothing herein relieves the Contractor from complying with any and all other Federal, State or Municipal Regulations.

EROSION AND SEDIMENT CONTROL NOTE

- All utilities to be constructed first, prior to any construction on the site.
- No pumping from foundation excavations will be allowed directly into City system unless it is filtered by way of Sediment Traps or Filter.
- All excavation material shall be placed on the high side whenever possible and confined to an area where it will not obstruct the normal flow of drainage courses.
- Continuous inspection and maintenance of all Sediment Control devices will be required.

INSTRUCTIONS

For land disturbing activities it is understood that the following conditions will be met:

- A. Grading**
- All disturbed areas shall be protected to control erosion and to prevent sedimentation of adjacent properties, storm sewers and/or streams.
 - Sediment control devices such as diversion berms, sediment traps, silt fences, vegetative stabilization, etc., shall be used to prevent off-site sedimentation at all times, at every location throughout the site where natural or existing conditions would cause sediment to normally wash off the site.
 - No proposed cut or fill will exceed three feet in depth (cut) or height (fill) without erosion and sediment controls. Exclusive of excavation for foundations.
 - No fill will be placed on any existing slope steeper than 5:1 without erosion and sediment controls.
 - There will be no final graded slope steeper than 2:1.
 - Borrow and/or spoil material shall not be stockpiled within the limits of this project.
 - All fills will be free of any organic or other deleterious materials and will be compacted. All areas to receive fill will have the ground surface prepared by removing all existing vegetation and root mat.
 - The proposed grading will not impair existing surface drainage, constitute a potential erosion hazard, or source of sedimentation to any adjacent property, drainage way or right-of-way.
 - All points of ingress and egress shall be protected to prevent tracking of mud onto public ways.
- B. Stabilization**
- As soon as final grading is completed, all disturbed areas will be stabilized with temporary or permanent mulch, including stone, blacktop, conc. surfacing, etc.
 - For vegetating areas steeper than three horizontal units to one vertical unit, adequate mulch, fertilizer and type of seed will be placed to ensure a vigorous ground cover and such application will be repeated, if necessary, until such growth is established.
 - Timing - Following initial solid disturbances or redistribution, permanent or temporary stabilization shall be completed within:
 - Seven calendar days for the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes greater than three horizontal to one vertical (3:1) and,
 - Twenty-four (24) hours for disturbed areas such as base repairs, alley returns, curb repairs, bus pads, pedestrian ramps, sidewalks and backfilled utility trenches. Stabilization shall consist of a minimum of 4 inch Graded Aggregate Sub-base and,
 - Fourteen calendar days for all other disturbed or graded areas.
 - For details regarding temporary and permanent stabilization practices, reference the "1983 Maryland Standards and Specifications For Soil Erosion and Sediment Control", or contact the Baltimore City Sediment Control Representative.
 - Sediment control devices are to be removed only after all disturbed areas have been stabilized.

CONDITIONS

The Contractor will submit written notification to the Baltimore City Sediment Control Representative at least three working days before starting any grading activities, stating the following:

- The day he intends to start work
- The source of all borrow material
- The designated stockpile area
- The Contractor's staging area
- The disposal site for all excess material
- The construction sequence
- The completion day of the work

Owners/Developers Certification

I/We hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and that all responsible personnel involved in the construction project will have a certification of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Signature: *James A. Zito*
 Date: 11-24-86

Print Name: James A. Zito
 Date: 11-24-86

Address: 204 Municipal Bldg.

Phone: 396-4600

Engineer's Certification

I certify that this plan for Erosion and Sediment Control represents a practical, workable plan based on personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Baltimore City Erosion and Sediment Control Section.

Signature: *Leonard H. Alderson*
 Date: 11/24/86

Print Name: Leonard H. Alderson

Address: 309 Municipal Bldg.

Phone: 301-396-4107

APPROVED BY:

Fredrick Moore
 EROSION & SEDIMENT CONTROL REPRESENTATIVE

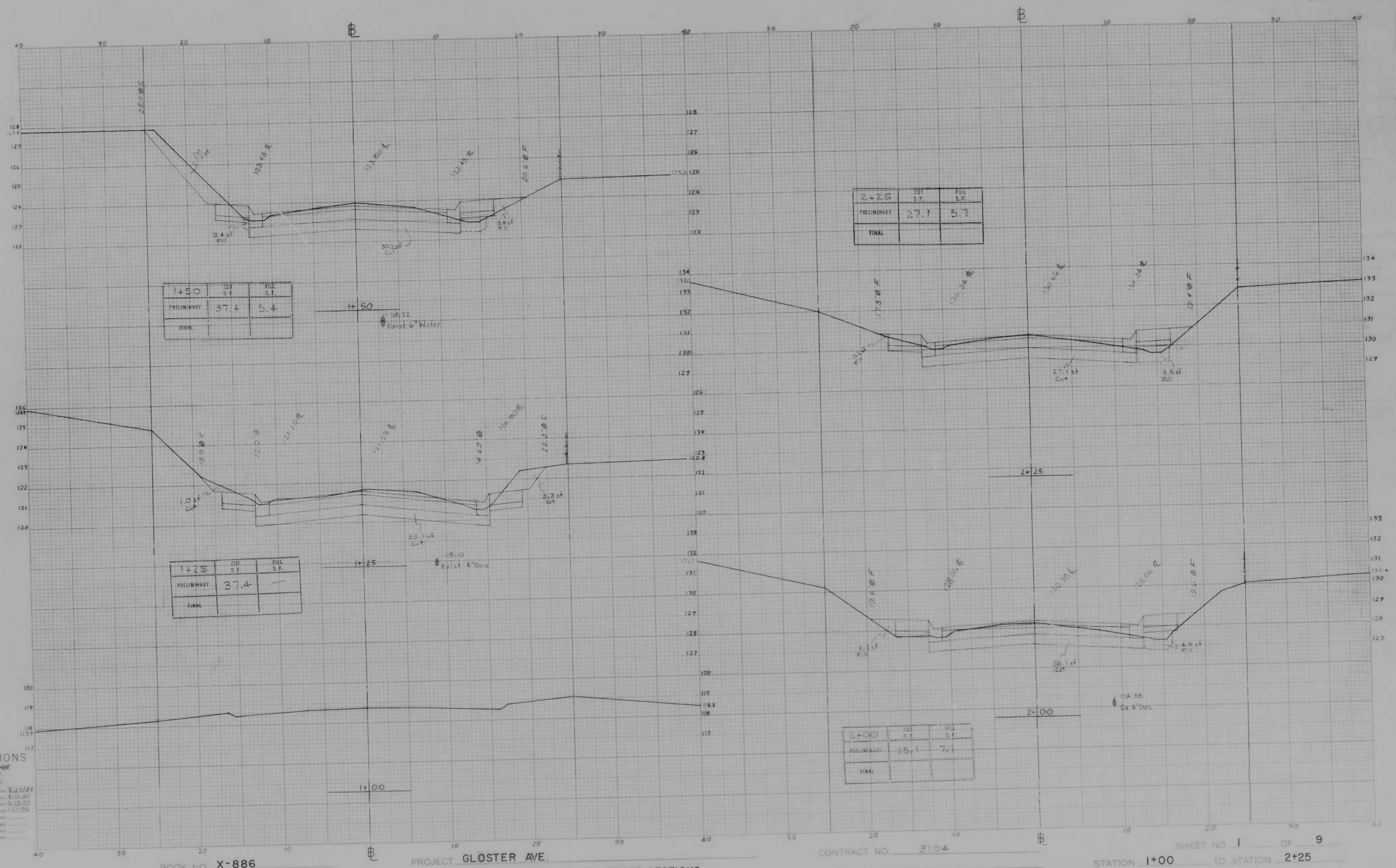
Department of Public Works, Bureau of Highways
 Environmental Services Division, Erosion and Sediment Control Section
 309 Municipal Building, Baltimore, MD 21202
 Phone - (301) 396-3693

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3104
GLOSTER AVENUE
 FROM GEORGETOWN RD. 550'± WESTERLY TO THE DEAD END
 AND
OTTAWA AVENUE
 FROM GLOSTER AVE 325'± NORTHEASTERLY

SOIL EROSION / SEDIMENT CONTROL NOTES

SCALE: NONE
 HIGHWAY ENGINEERING DIVISION
 DATE: SEPT. 27, 1985
 SHEET 17 OF 17

FILE REF.



STATION	CUT S.F.	FILL S.F.
1+50	37.4	5.4
PRELIMINARY		
FINAL		

STATION	CUT S.F.	FILL S.F.
2+25	27.1	5.7
PRELIMINARY		
FINAL		

STATION	CUT S.F.	FILL S.F.
1+25	37.4	—
PRELIMINARY		
FINAL		

STATION	CUT S.F.	FILL S.F.
2+00	25.1	7.1
PRELIMINARY		
FINAL		

CROSS SECTIONS
 Scale 1 inch = 50' Hor.
 2.0' Ver.

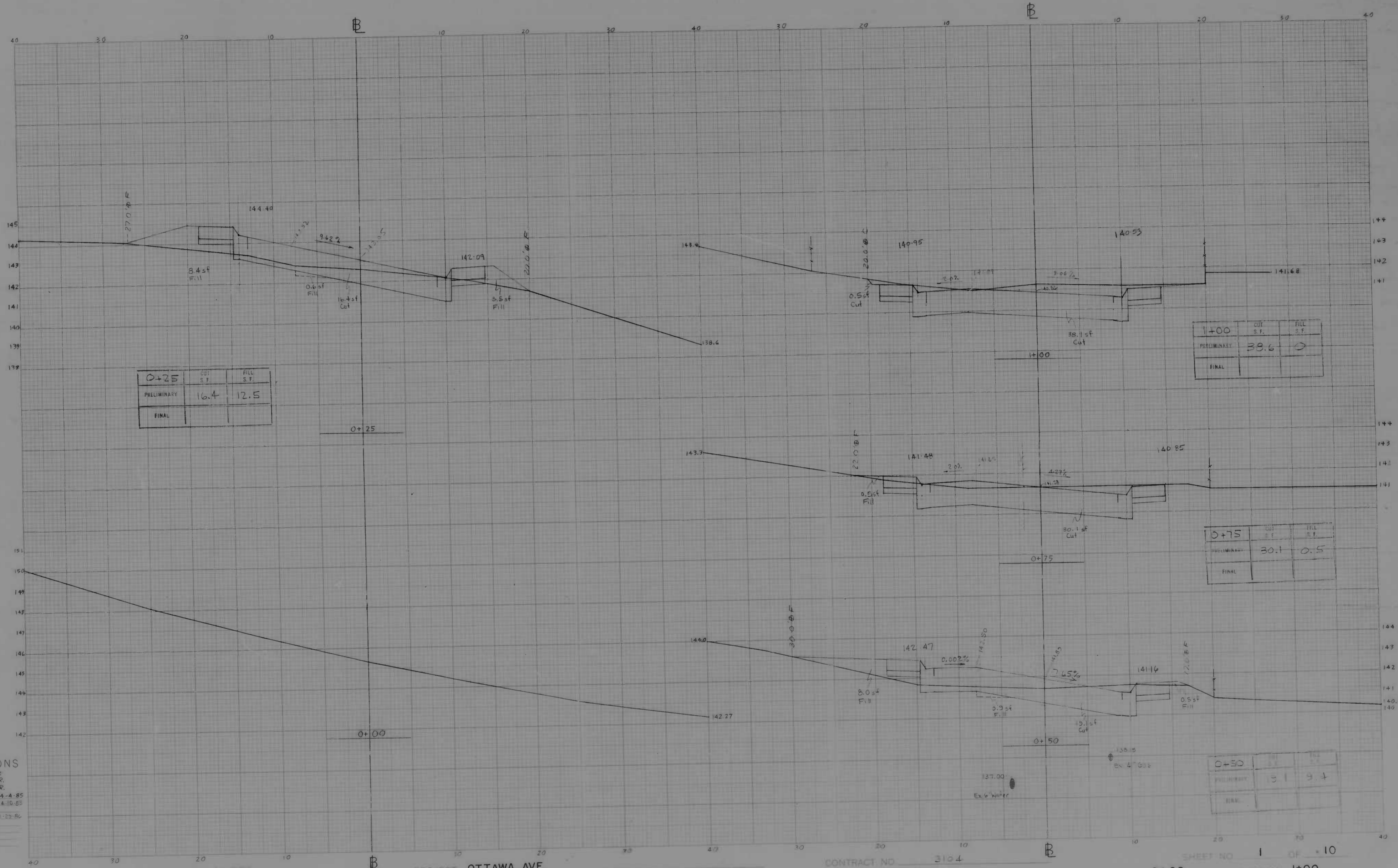
Original Plans by Denis S. Smith 3/27/95
 Original Checked by R. Miller Date 4-18-95
 Template by E. Miller Date 12-15-95
 Date by C. M. P. Date 1-1-96
 Field Checked by _____
 Final Checked by _____
 Author _____
 Date _____

BOOK NO. X-886

PROJECT GLOSTER AVE.
 DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO. 1 OF 9
 STATION 1+00 TO STATION 2+25



0+25	CUT S.F.	FILL S.F.
PRELIMINARY	16.4	12.5
FINAL		

1+00	CUT S.F.	FILL S.F.
PRELIMINARY	38.6	0
FINAL		

0+75	CUT S.F.	FILL S.F.
PRELIMINARY	30.1	0.5
FINAL		

0+30	CUT S.F.	FILL S.F.
PRELIMINARY	31	9.4
FINAL		

CROSS SECTIONS
 Scale 1 inch = 5.0' HOR.
 2.0' VER.
 Original Drafted by Denis Simicich, 4-4-85
 Original Checked by C.M. Rev. Date 4-10-85
 Template by W.F.C. Date
 Area by K.M. Rev. Date 1-22-86
 Plot Prepared by Date
 Final Checked by Date
 Area by Date
 Area Checked by Date

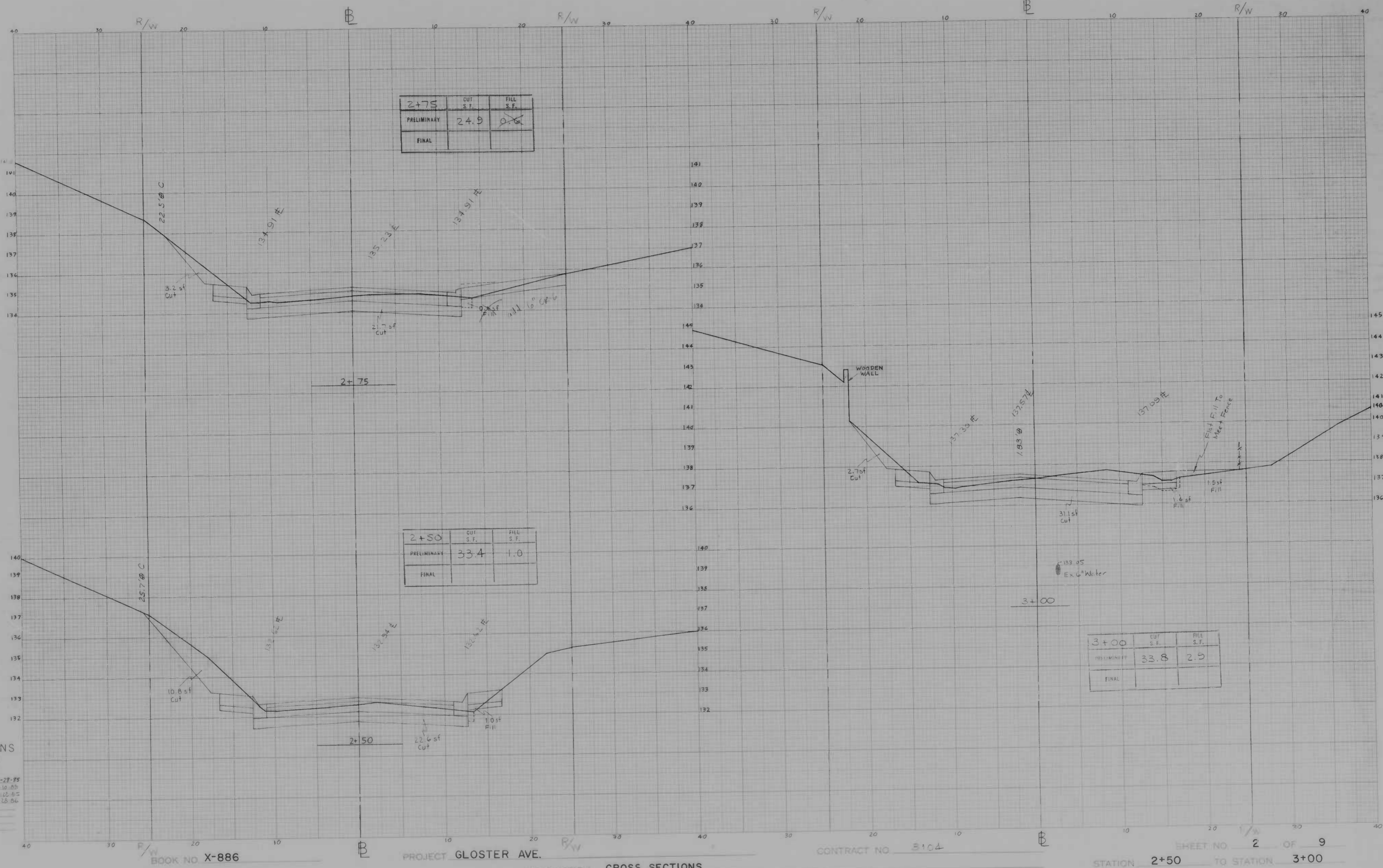
BOOK NO. X-886

PROJECT OTTAWA AVE.

CONTRACT NO. 3104

DESCRIPTION CROSS SECTIONS

SHEET NO. 1 OF 10
 STATION 0+00 TO STATION 1+00

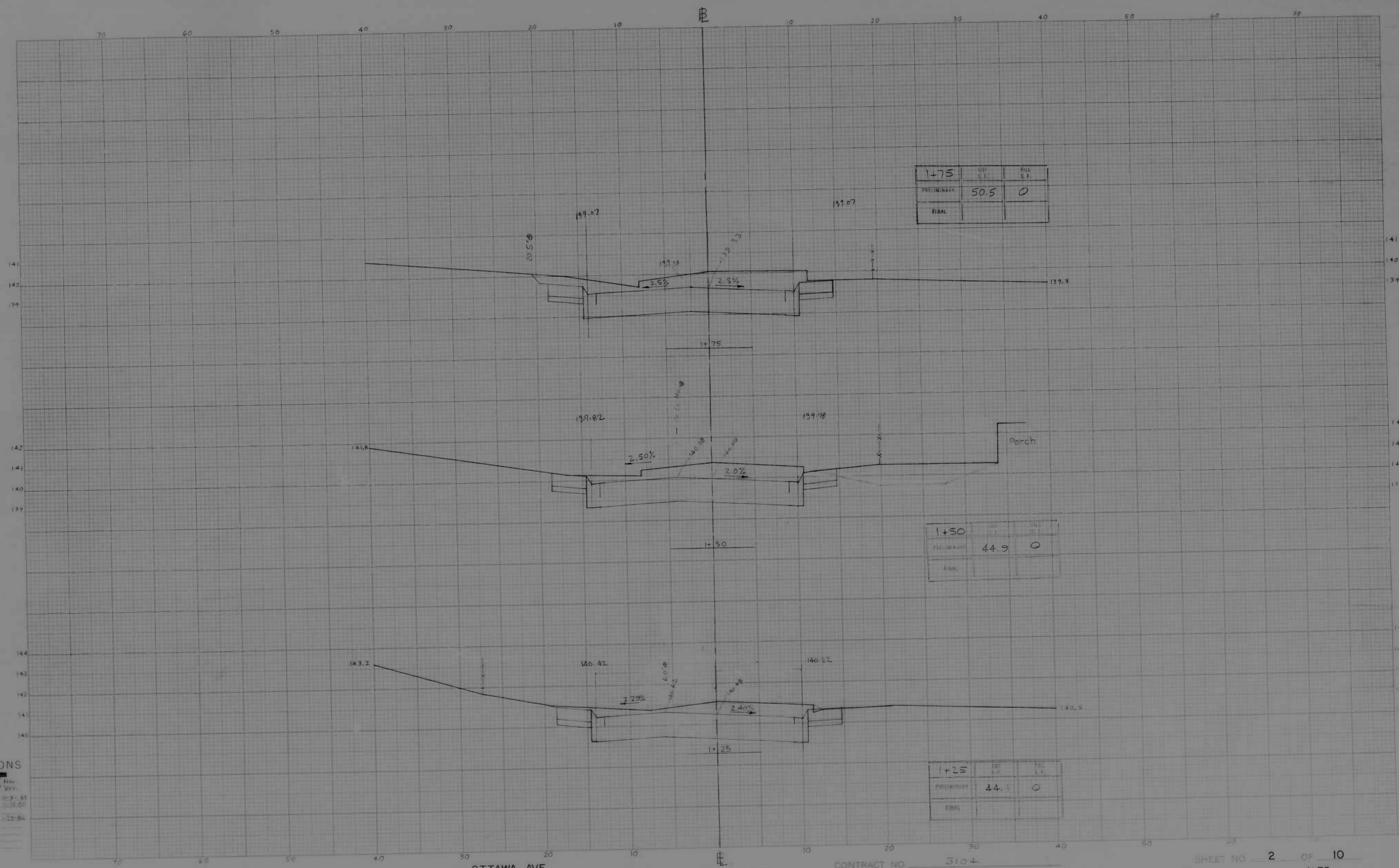


STATION	CUT S.F.	FILL S.F.
2+75	24.9	0.0
PRELIMINARY		
FINAL		

STATION	CUT S.F.	FILL S.F.
2+50	33.4	1.0
PRELIMINARY		
FINAL		

STATION	CUT S.F.	FILL S.F.
3+00	33.8	2.9
PRELIMINARY		
FINAL		

CROSS SECTIONS
 Scale 1 inch = 40 feet
 5.0' HOR.
 2.0' VER.
 Original Plotted by Dennis Smith Date 3-27-95
 Original Checked by E. Miller Date 4-10-95
 Transmitted to S. M. Date 10-25-95
 Approved by S. M. Date 1-26-96
 Plotted by _____ Date _____
 Checked by _____ Date _____
 Area by _____ Date _____
 Area checked by _____ Date _____



CROSS SECTIONS

Scale: 1 inch = 5.0' Hor. / 2.0' Ver.
 Original Prepared by Denis Swartz on 11-27-85
 Original Checked by G.M. on 11-28-85
 Transmitted to W.F.C. Date 12-25-85
 Area by S.M. Date 12-25-85
 Plans Checked by Date
 Field Checked by Date
 Area Checked by Date

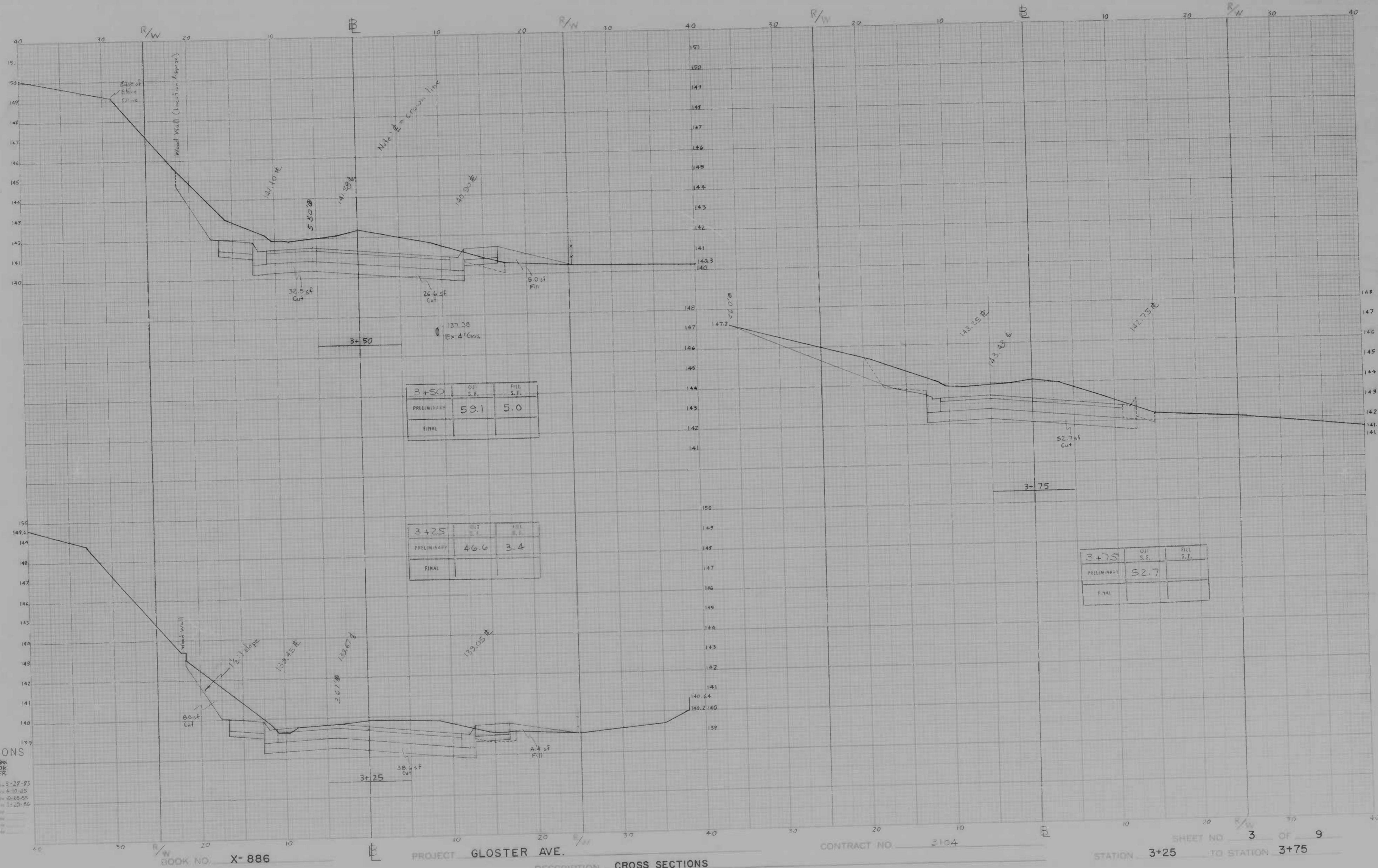
BOOK NO X-886

PROJECT OTTAWA AVE.

DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO 2 OF 10
 STATION 1+25 TO STATION 1+75



3+50	CUT S.F.	FILL S.F.
PRELIMINARY	59.1	5.0
FINAL		

3+25	CUT S.F.	FILL S.F.
PRELIMINARY	46.6	3.4
FINAL		

3+75	CUT S.F.	FILL S.F.
PRELIMINARY	52.7	
FINAL		

CROSS SECTIONS

Scale 1 inch = 10 feet
 5.0' HOR
 1.0' VER

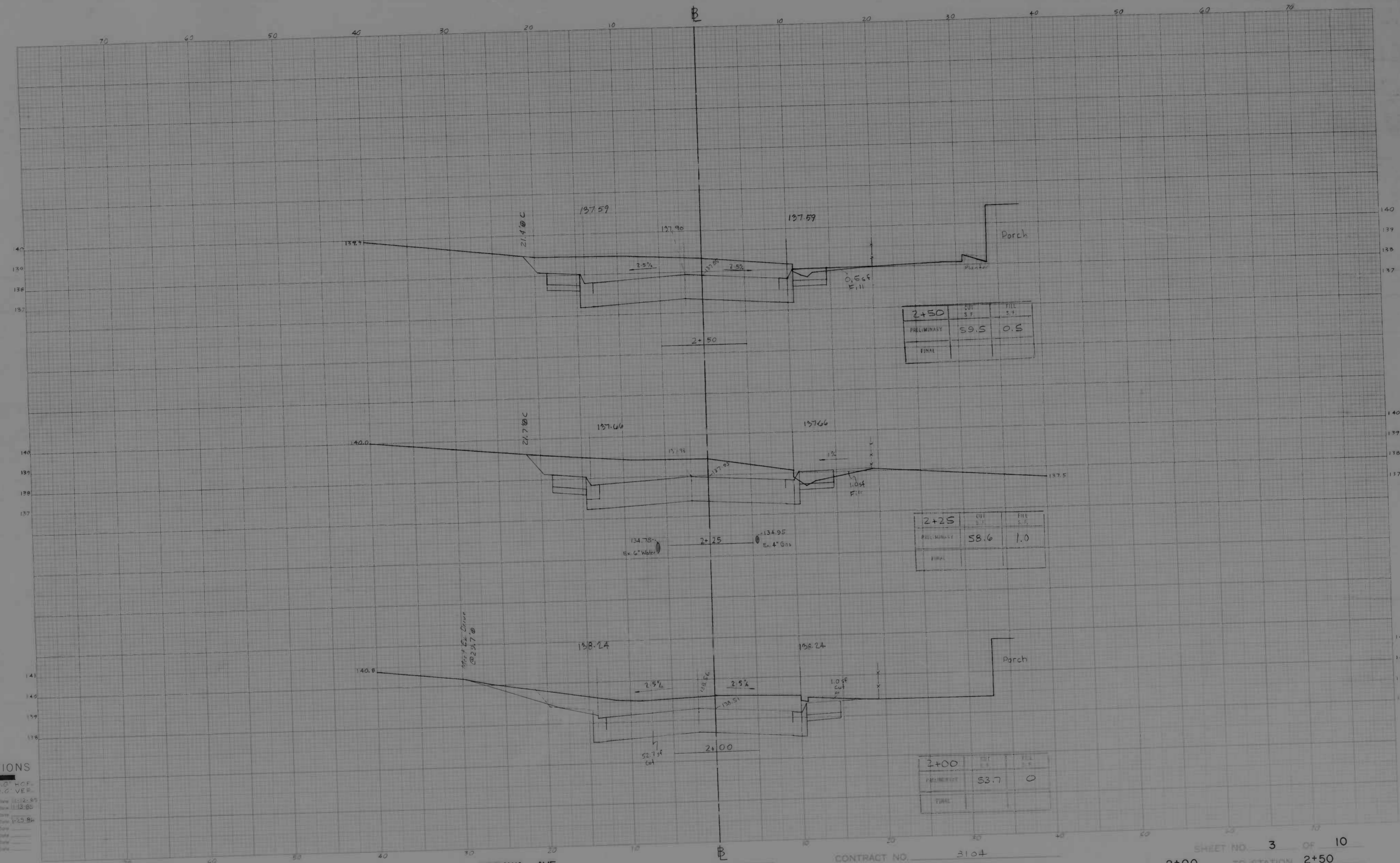
Project Gloucester Ave. 3-29-95
 Design Checked by G.M. 4-10-95
 Drawn by M.H. 10-29-95
 Title Gloucester Ave. 1-20-96

BOOK NO. X-886

PROJECT GLOUCESTER AVE.
 DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO. 3 OF 9
 STATION 3+25 TO STATION 3+75



CROSS SECTIONS

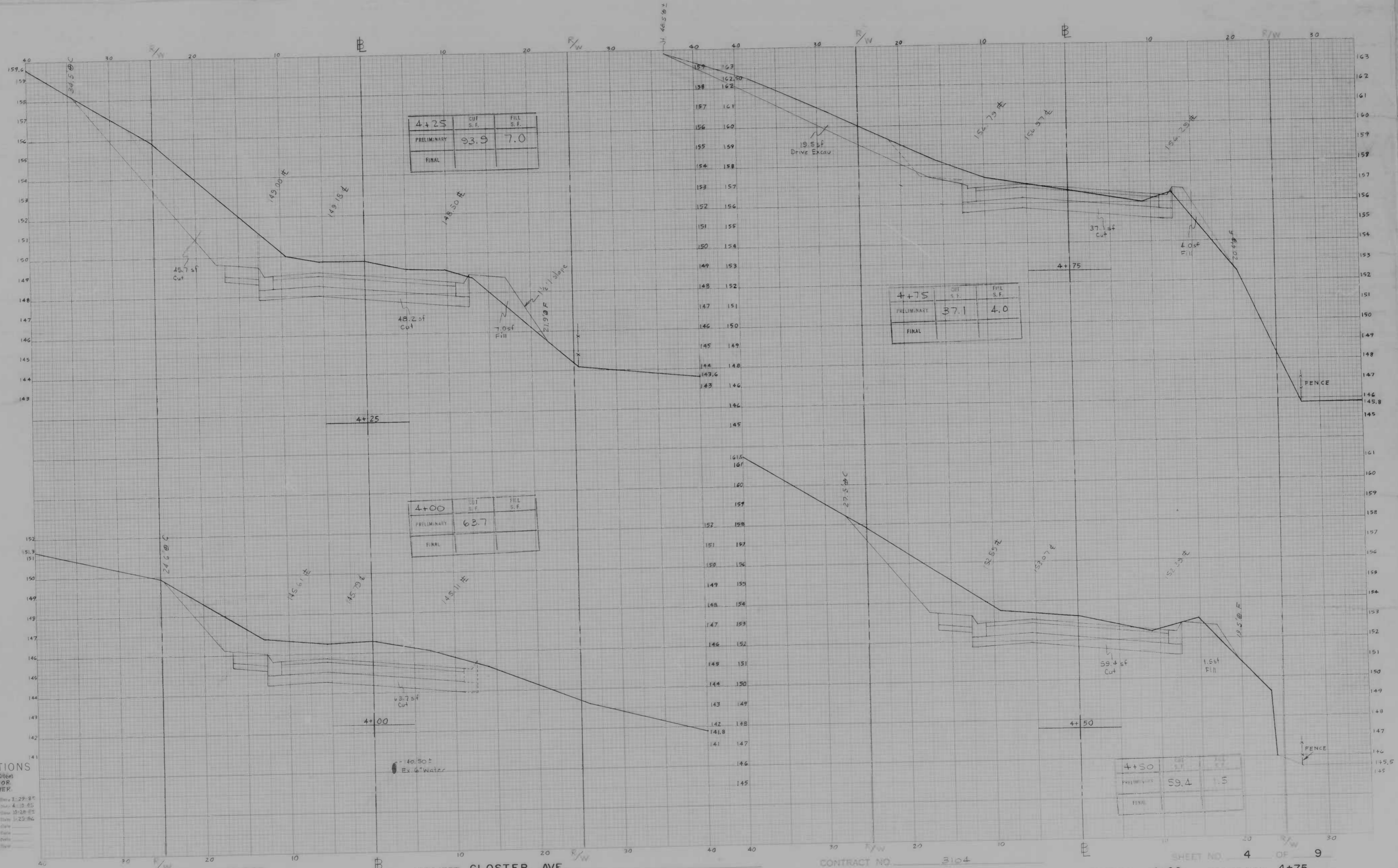
Scale 1" = 20' H.C.F.
2" = 10' V.E.R.
Original Profile by David Swathlow 11-12-85
Original Checked by E. M. [unclear] 11-12-85
Computer by P.C. [unclear] Date
Area by E. M. [unclear] Date 1-25-86
Field Placed by _____ Date
Final Checked by _____ Date
Area by _____ Date
Area Checked by _____ Date

BOOK NO. X-886

PROJECT OTTAWA AVE.
DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO. 3 OF 10
STATION 2+00 TO STATION 2+50



CROSS SECTIONS

Scale 1 inch = 20 feet
 5.0' HOR.
 2.0' VER.

Original Plotted by Dennis Smith Date 3-29-85
 Original Checked by R. Miller Date 4-3-85
 Template by R. Miller Date 3-28-85
 Area by R. Miller Date 3-28-85
 Final Plotted by Dennis Smith Date 4-3-85
 Final Checked by R. Miller Date 4-3-85
 Area by R. Miller Date 3-28-85
 Area Checked by R. Miller Date 3-28-85

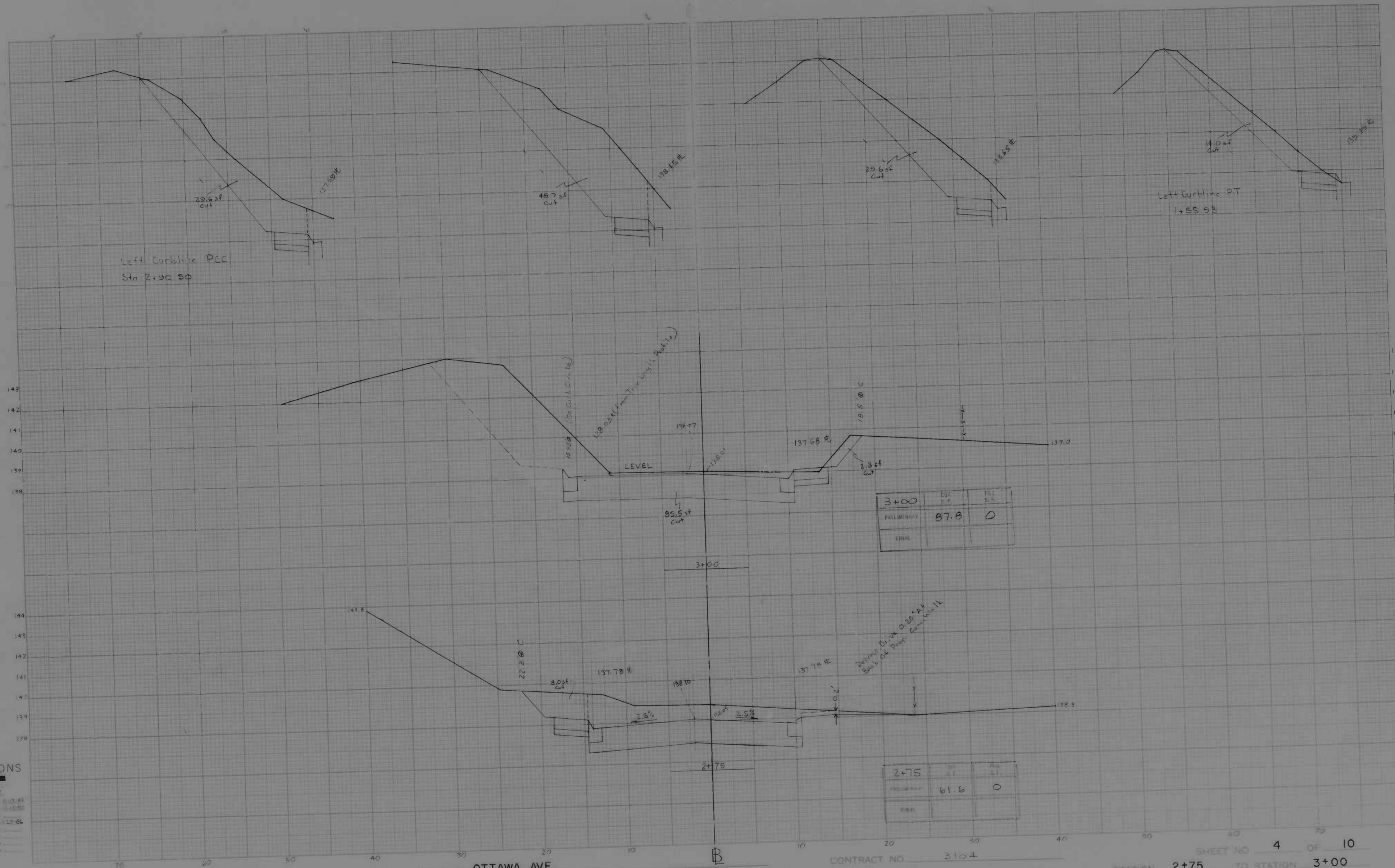
BOOK NO. X-886

PROJECT GLOSTER AVE.

DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO. 4 OF 9
 STATION 4+00 TO STATION 4+75



3+00	87.8	0
PRELIMINARY		
FINAL		

2+75	61.6	0
PRELIMINARY		
FINAL		

CROSS SECTIONS
 Scale 1 inch = 5' FOR
 4" VERTICAL

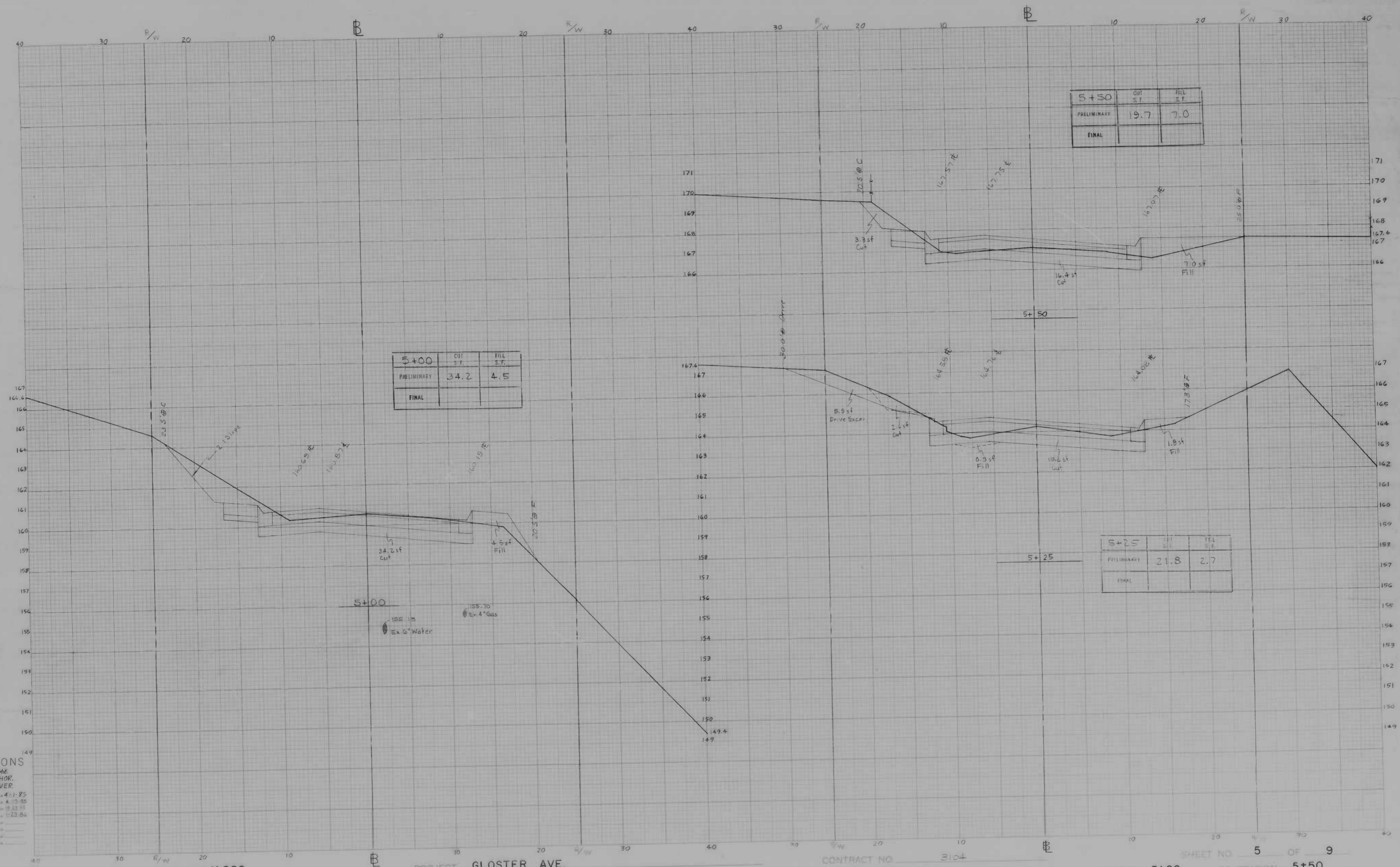
Original Prepared by: [unclear] Date: 11-13-88
 Original Checked by: [unclear] Date: 11-18-88
 Revised by: [unclear] Date: 11-18-88
 Final Checked by: [unclear] Date: 11-18-88
 Date: 11-18-88

BOOK NO. X-886

PROJECT OTTAWA AVE.
 DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO. 4 OF 10
 STATION 2+75 TO STATION 3+00



5+00	CUT S.F.	FILL S.F.
PRELIMINARY	34.2	4.5
FINAL		

5+50	CUT S.F.	FILL S.F.
PRELIMINARY	19.7	7.0
FINAL		

5+25	CUT S.F.	FILL S.F.
PRELIMINARY	21.8	2.7
FINAL		

CROSS SECTIONS
 Scale 1 inch = 10' HOR.
 = 5.0' HOR.
 = 2.0' VER.

Original Plan by Denis Smith Date 4-1-85
 Original Stationing by S.H. McC. Date 4-11-85
 Template by J.V. Date 8-13-85
 Area by R. Miller Date 1-23-86
 Single Checked by _____ Date _____
 Area Checked by _____ Date _____
 Area Checked by _____ Date _____

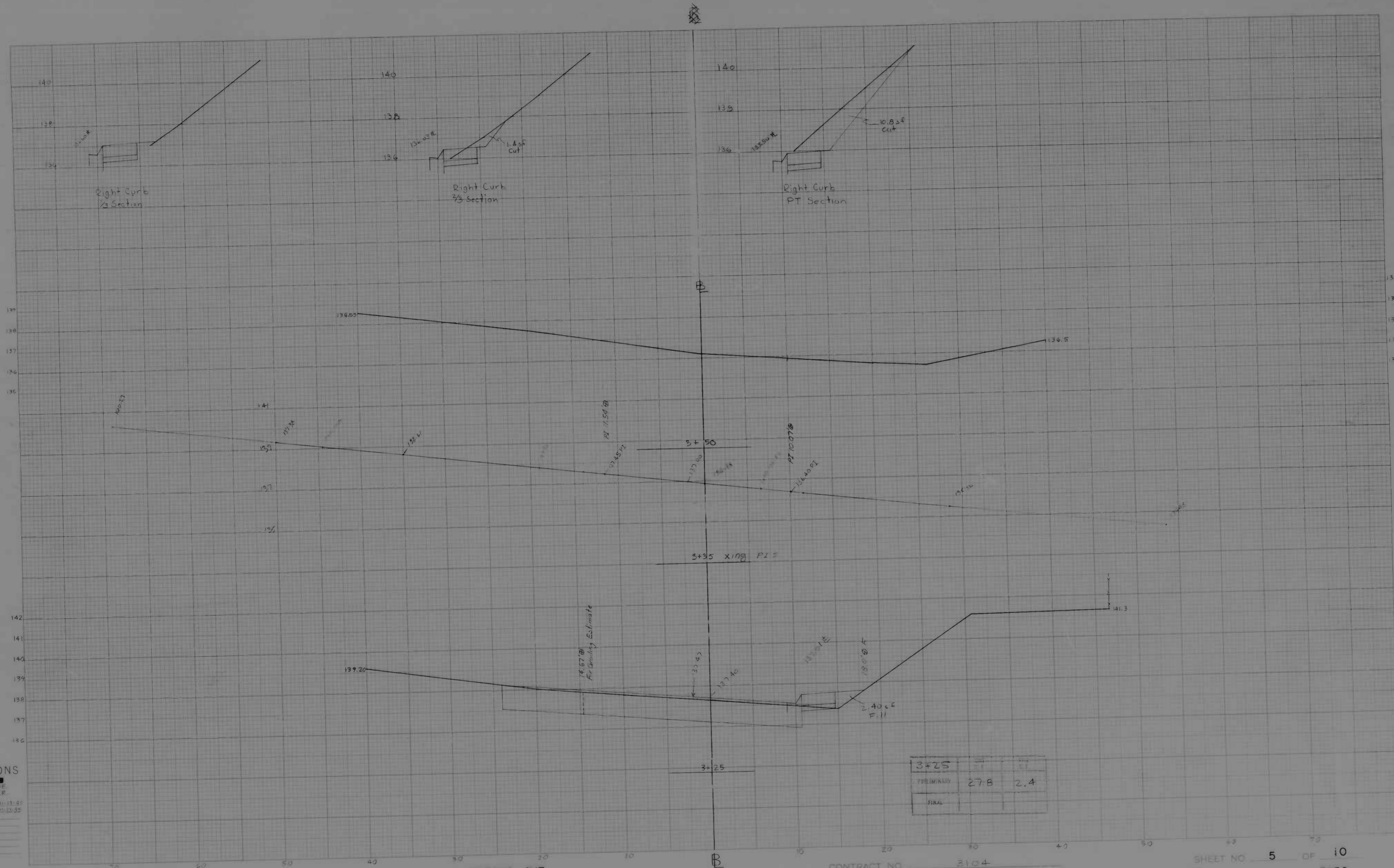
BOOK NO X-886

PROJECT GLOSTER AVE.

DESCRIPTION CROSS SECTIONS

CONTRACT NO 3104

SHEET NO 5 OF 9
 STATION 5+00 TO STATION 5+50



CROSS SECTIONS

Scale 1 inch = 20' VER
 Original Plans to Dept. Selection 11-13-55
 Original Checked by N.M. Bag. Date 10-10-55
 Transferred by K. L. 1962 Date
 Area by _____ Date
 Plans Made by _____ Date
 Plans Checked by _____ Date
 Area by _____ Date
 Area Checked by _____ Date

3+25	2.7	2.4
PRELIMINARY	27.8	2.4
FINAL		

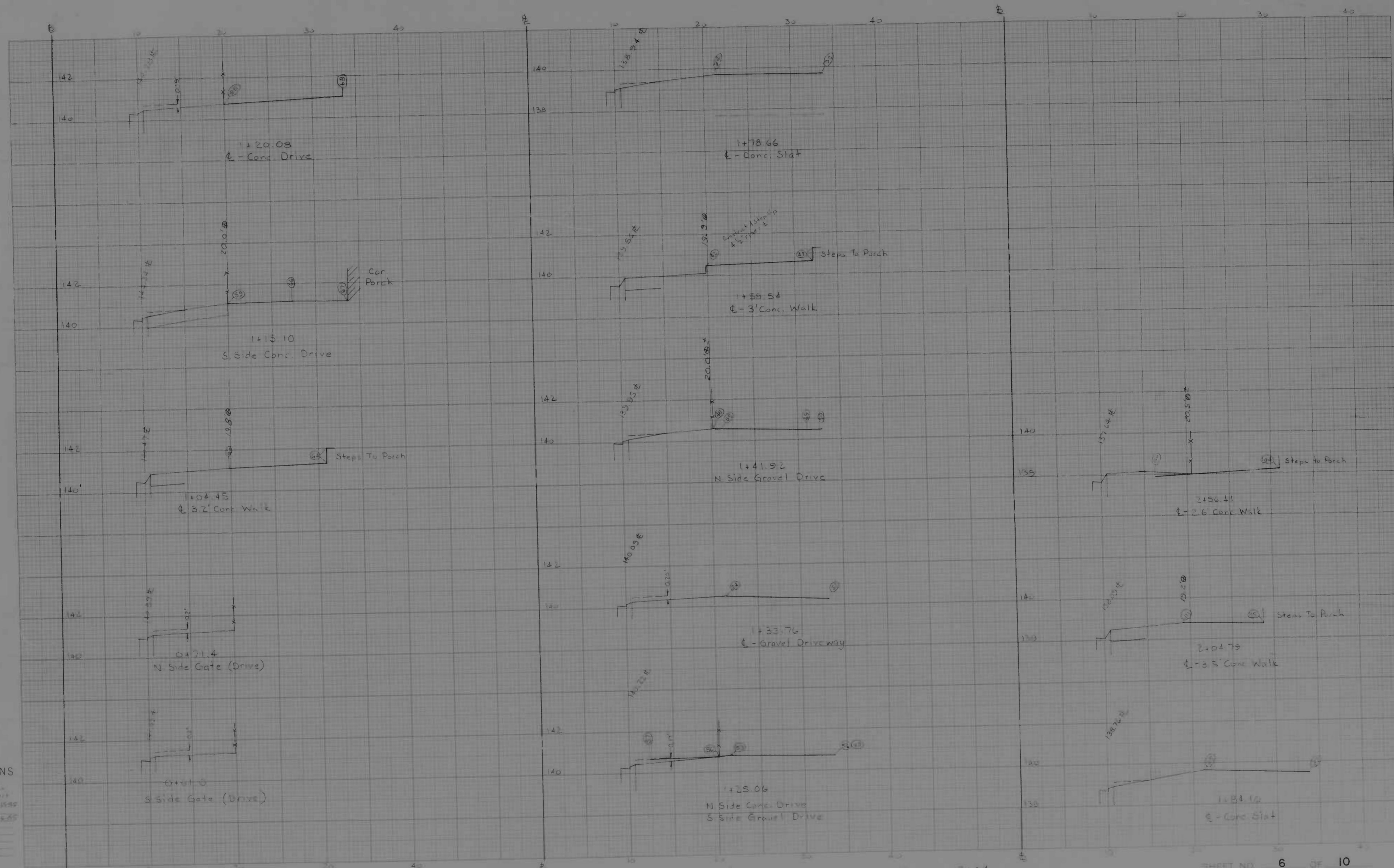
BOOK NO. X-886

PROJECT OTTAWA AVE.

DESCRIPTION CROSS SECTIONS

CONTRACT NO. 3104

SHEET NO. 5 OF 10
 STATION 3+25 TO STATION 3+50



CROSS SECTIONS

Scale 1 inch = 10 feet
 Original Planned by: S. Miller, Date: 7/15/50
 Original Checked by: S. Miller, Date: 8/1/50
 Proposed by: S. Miller, Date: 8/1/50
 Drawn by: S. Miller
 Entered: S. Miller
 Plotted: S. Miller
 Checked: S. Miller
 Date: 8/1/50

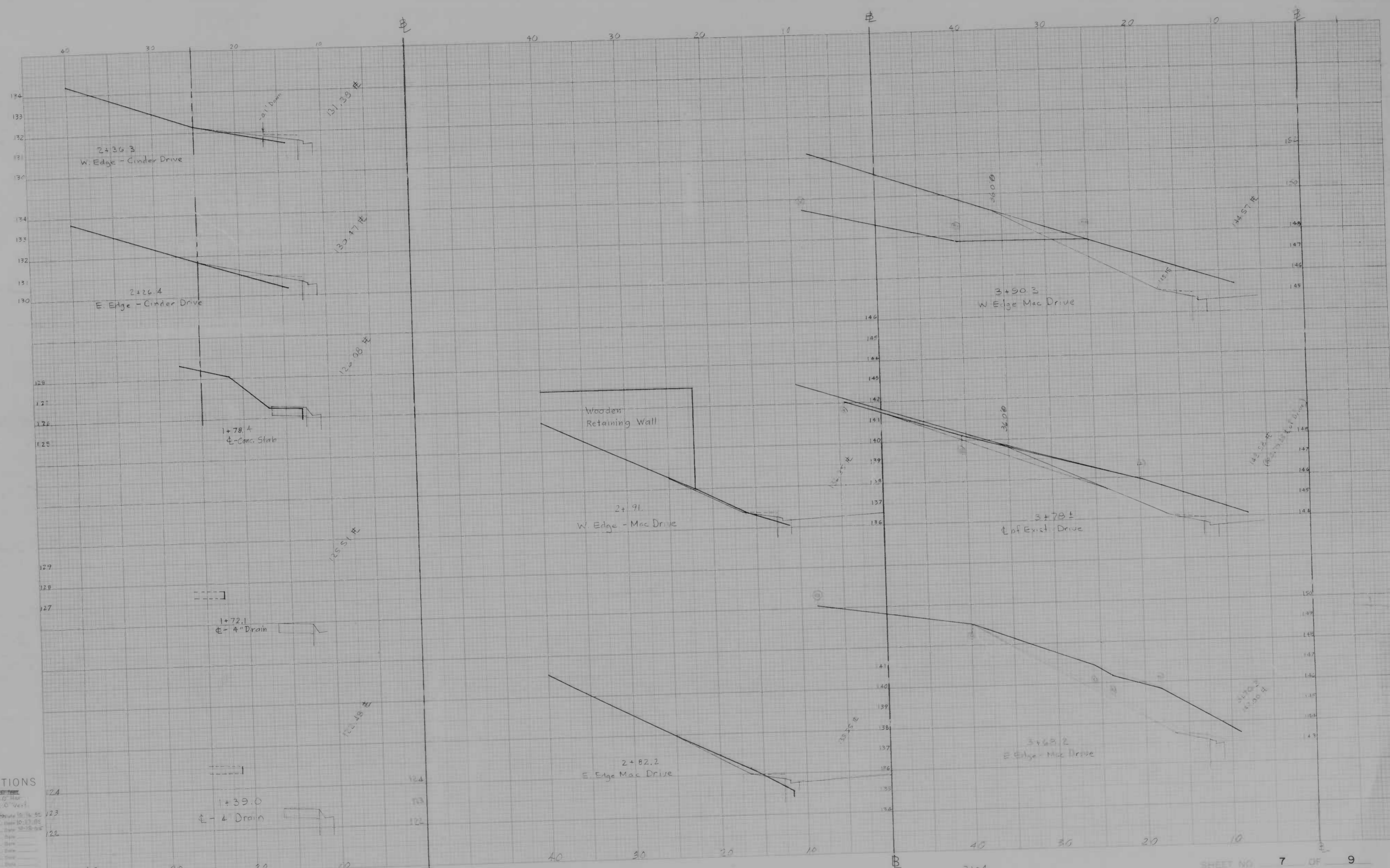
BOOK NO. X-886

PROJECT OTTAWA AVE.

DESCRIPTION STUDIES ALONG RIGHT SIDE

CONTRACT NO. 3104

SHEET NO. 6 OF 10
 STATION 0+61.0 TO STATION 2+56.41
 OTTAWA AVE. - STUDIES ALONG RIGHT SIDE



CROSS SECTIONS

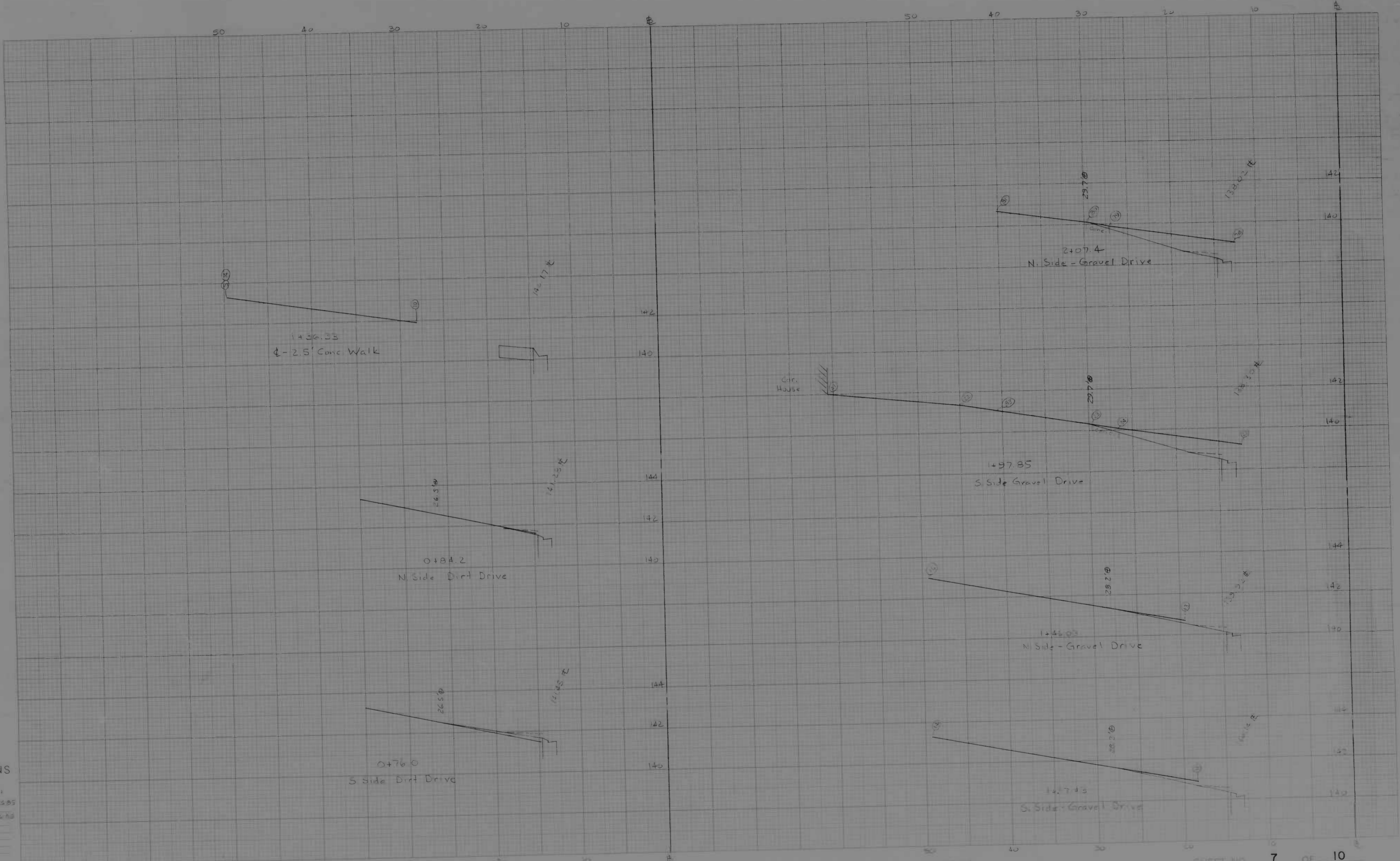
Scale: 1" = 10' Hor. / 2.0" = 1' Vert.
 Original Plan by Davis Brothers Co. Inc. SE
 Original Checked by E. J. ...
 Proposed by ...
 Date ...

BOOK NO. X-886

PROJECT GLOSTER AVE.
 DESCRIPTION STUDIES-LEFT SIDE

CONTRACT NO. 3104

SHEET NO. 7 OF 9
 STATION 1+39.0 TO STATION 3+90.3
 GLOSTER AVE. STUDIES ALONG LEFT SIDE



CROSS SECTIONS

Scale 1" = 10' Vert
 1" = 20' Horz

Original Plan by R. Miller Date 1/25/85
 Original Checked by _____ Date _____
 Revisions by _____ Date 12/2/85
 Area by _____ Date _____
 Draft Plotted by _____ Date _____
 Final Checked by _____ Date _____
 Area by _____ Date _____
 Area Checked by _____ Date _____

BOOK NO. X-886

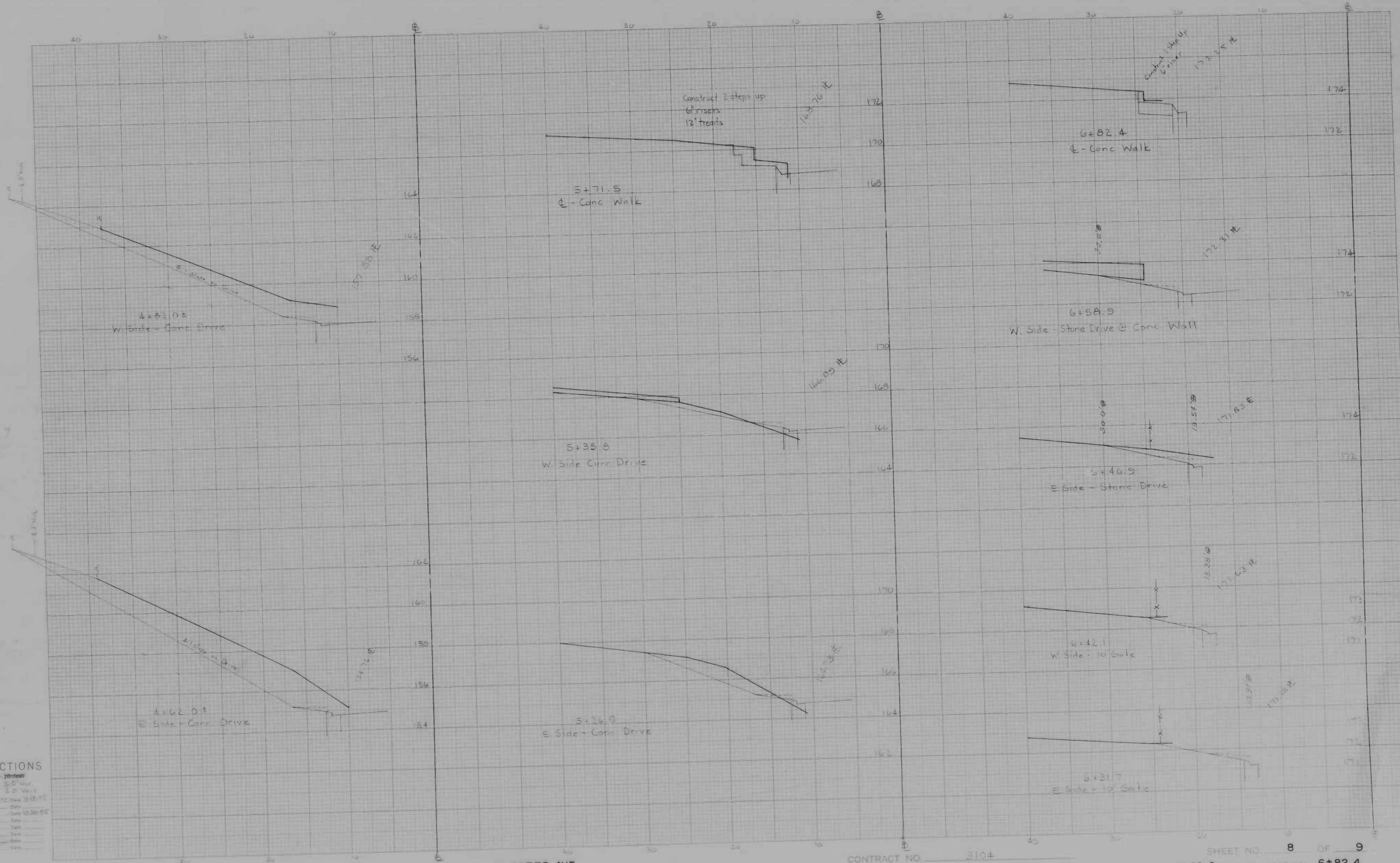
PROJECT OTTAWA AVE.

DESCRIPTION STUDIES ALONG LEFT SIDE

CONTRACT NO. 8104

SHEET NO. 7 OF 10

STATION 0+76.0 TO STATION 2+07.4
OTTAWA AVE. - STUDIES ALONG LEFT SIDE



CROSS SECTIONS

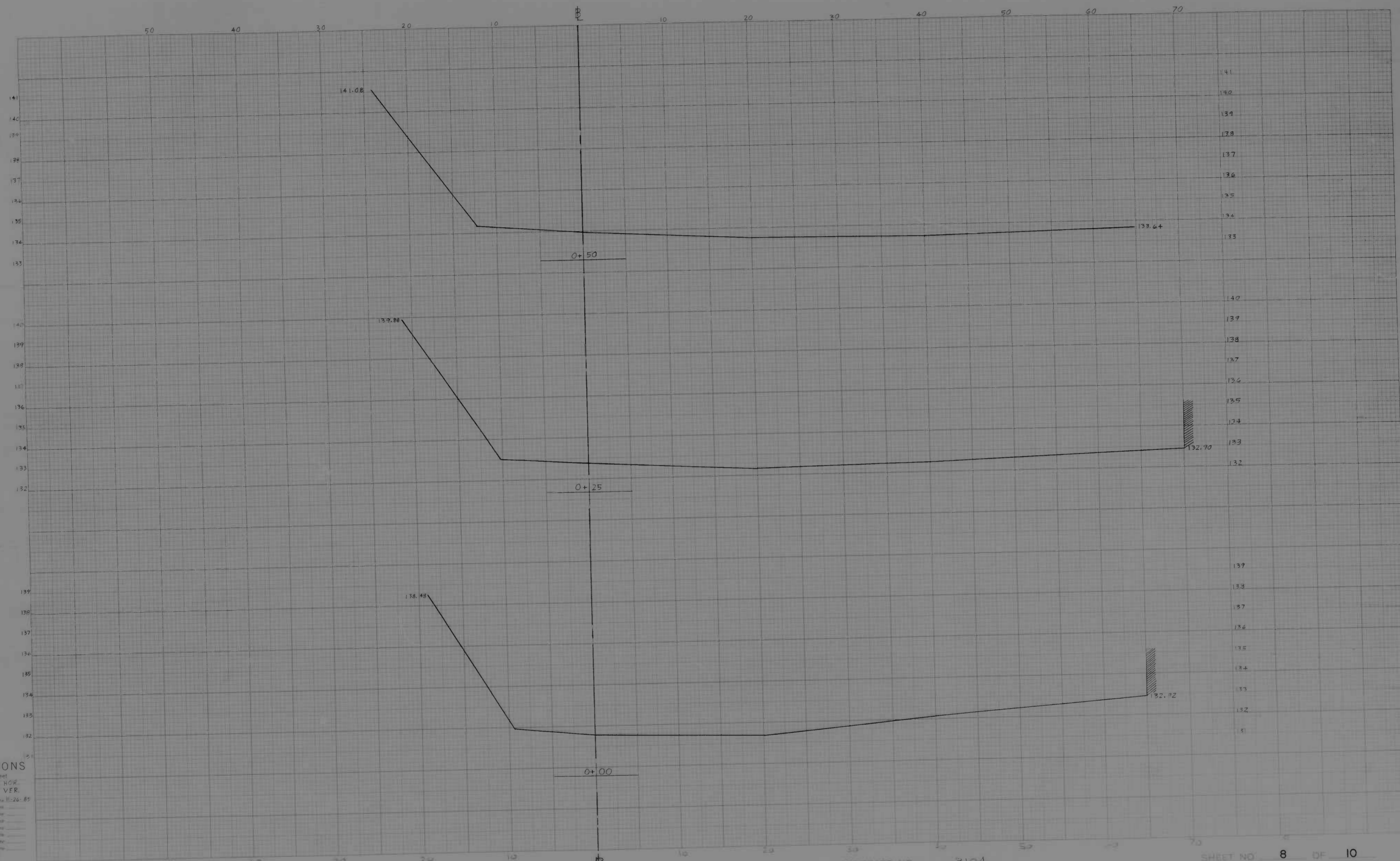
Scale 1 inch = 10 feet
 5.0' Hor.
 2.0' Vert.
 Designer: J. M. Miller Date: 11-18-77
 Project Checked by: J. M. Miller Date: 10-30-77
 Title: Studies - Left Side
 Plotted by: J. M. Miller
 Printed by: J. M. Miller
 Date: 11-18-77

BOOK NO. X-886

PROJECT GLOSTER AVE.
 DESCRIPTION STUDIES - LEFT SIDE

CONTRACT NO. 3104

SHEET NO. 8 OF 9
 STATION 4+62.0 TO STATION 6+82.4
 GLOSTER AVE. STUDIES ALONG LEFT SIDE



CROSS SECTIONS

Scale 1 inch = 10 feet
2.0" HOR.
2.0" VER.

Original Station by Dennis Smith Date 11-24-85
 Original Checked by _____ Date _____
 Prepared by _____ Date _____
 Drawn by _____ Date _____
 Checked by _____ Date _____
 Area by _____ Date _____
 Area Checked by _____ Date _____

BOOK NO. X-886

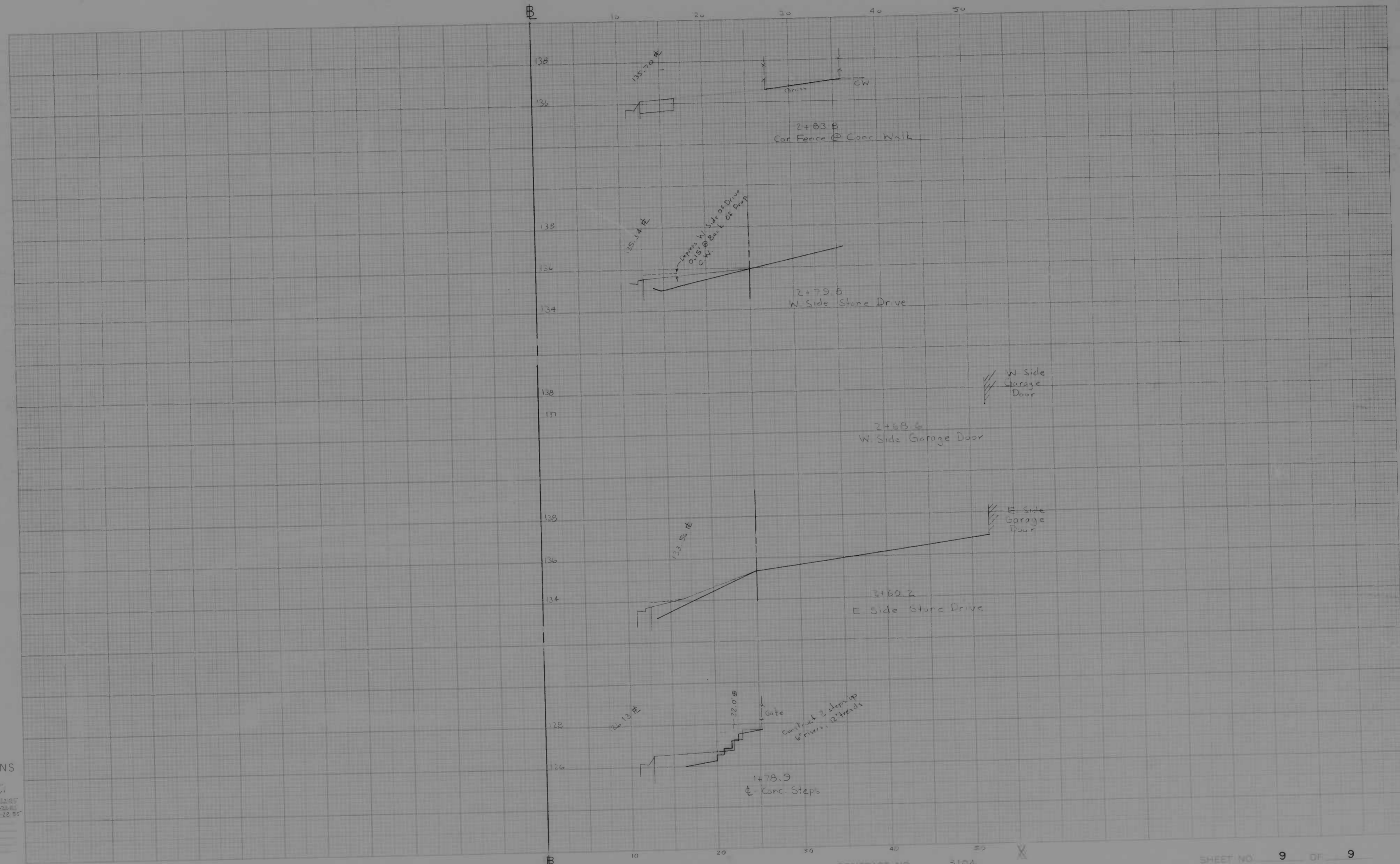
PROJECT OTTAWA AVE.

CONTRACT NO. 3104

SHEET NO. 8 OF 10

DESCRIPTION CROSS SECTIONS ALONG INDUSTRIAL PARK BASELINE

STATION 0+00 TO STATION 0+50
ALONG INDUSTRIAL PARK BASELINE



CROSS SECTIONS

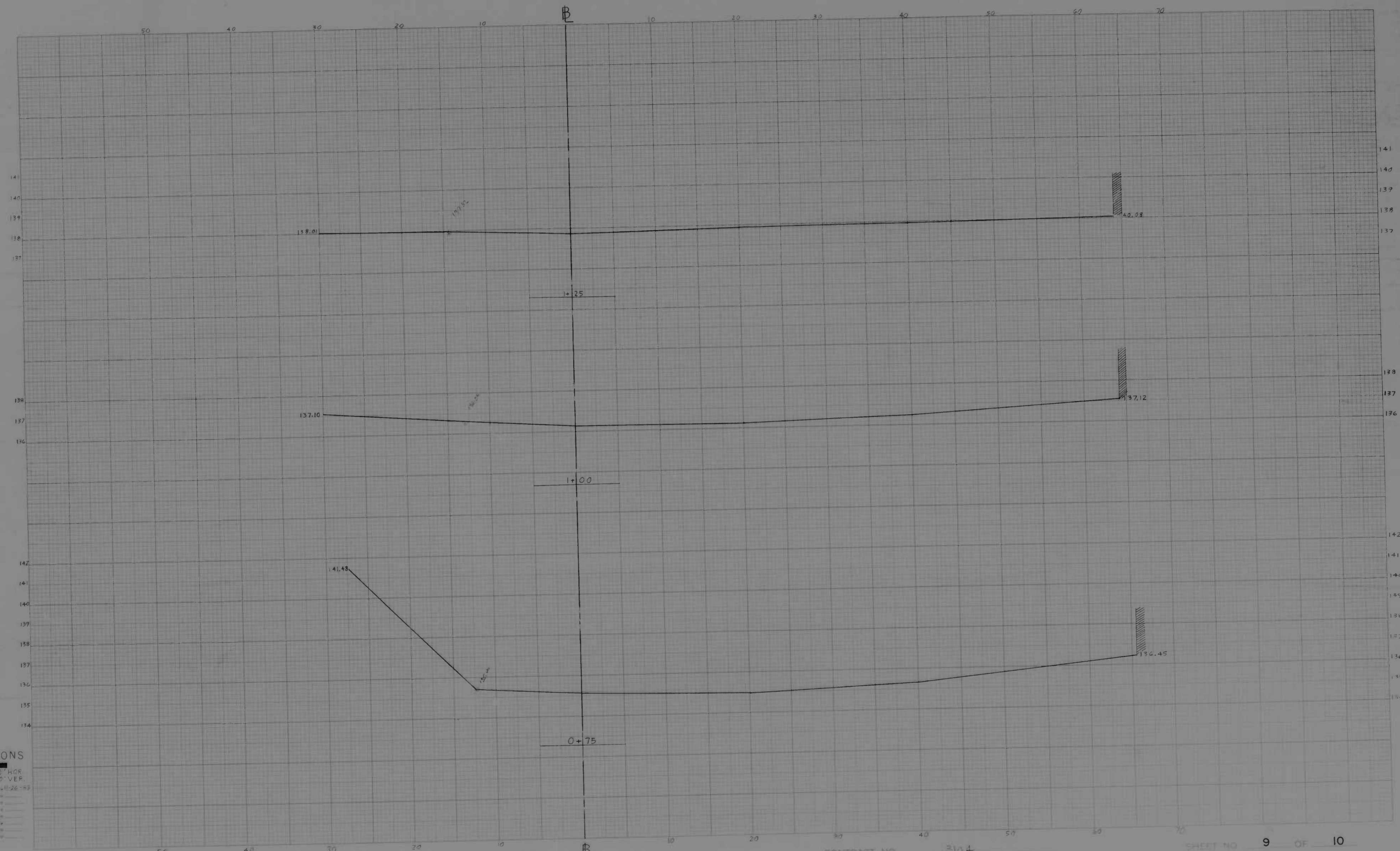
Scale 1" = 10'
 SC No. 5
 L.O. 11/11
 Original Plotted by C. J. Miller, Date 10/12/57
 Original Checked by E. M. Jones, Date 10/25/57
 Transferred by E. M. Jones, Date 10/28/57
 Aged by _____ Date _____
 Plotted by _____ Date _____
 Field Checked by _____ Date _____
 Aged by _____ Date _____
 Auto Checked by _____ Date _____

BOOK NO. X-886

PROJECT GLOSTER AVE.
 DESCRIPTION STUDIES - RIGHT SIDE

CONTRACT NO. 3104

SHEET NO. 9 OF 9
 STATION 1+78.9 TO STATION 2+83.8
 GLOSTER AVE. STUDIES ALONG RIGHT SIDE



CROSS SECTIONS

Scale 1" = 50' HOR
 1" = 2' VER

Original Project by Trans Services 10-26-53
 Original Checked by _____ Date _____
 Designer by _____ Date _____
 Area by _____ Date _____
 Cross Checked by _____ Date _____
 Area by _____ Date _____
 Area Checked by _____ Date _____

BOOK NO. X-886

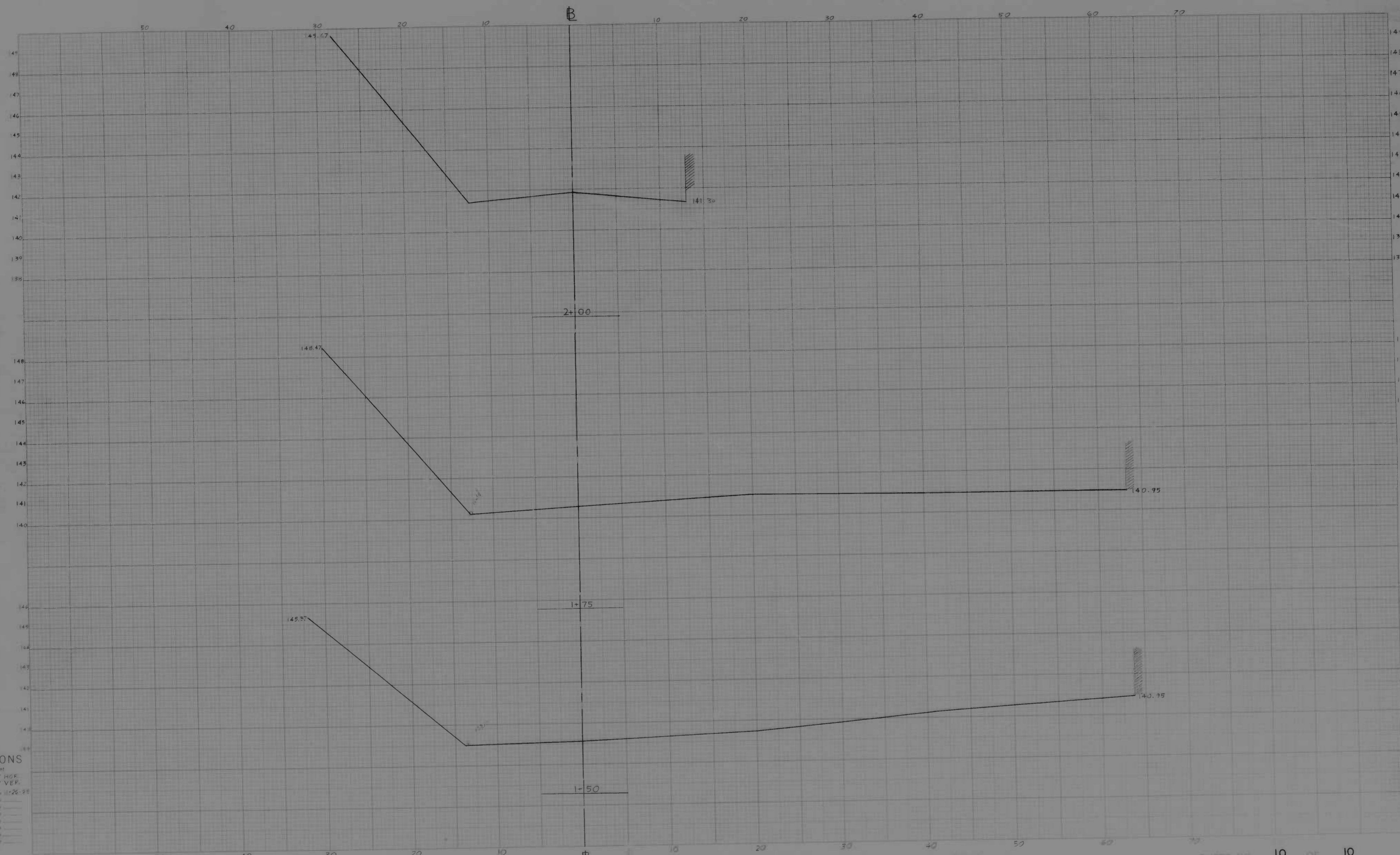
PROJECT OTTAWA AVE.

DESCRIPTION CROSS SECTIONS ALONG INDUSTRIAL PARK BASELINE

CONTRACT NO. 3104

SHEET NO. 9 OF 10

STATION 0+75 TO STATION 1+25
ALONG INDUSTRIAL PARK BASELINE



CROSS SECTIONS

Scale: 1 inch = 10 feet
 5.0' VERT.
 2.0' HORIZ.

Original Plan No. 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000

BOOK NO. X-886

PROJECT OTTAWA AVE.

DESCRIPTION CROSS SECTIONS ALONG INDUSTRIAL PARK BASELINE

CONTRACT NO. 3104

SHEET NO. 10 OF 10

STATION 1+50 TO STATION 2+00
ALONG INDUSTRIAL PARK BASELINE