

FILE REF.

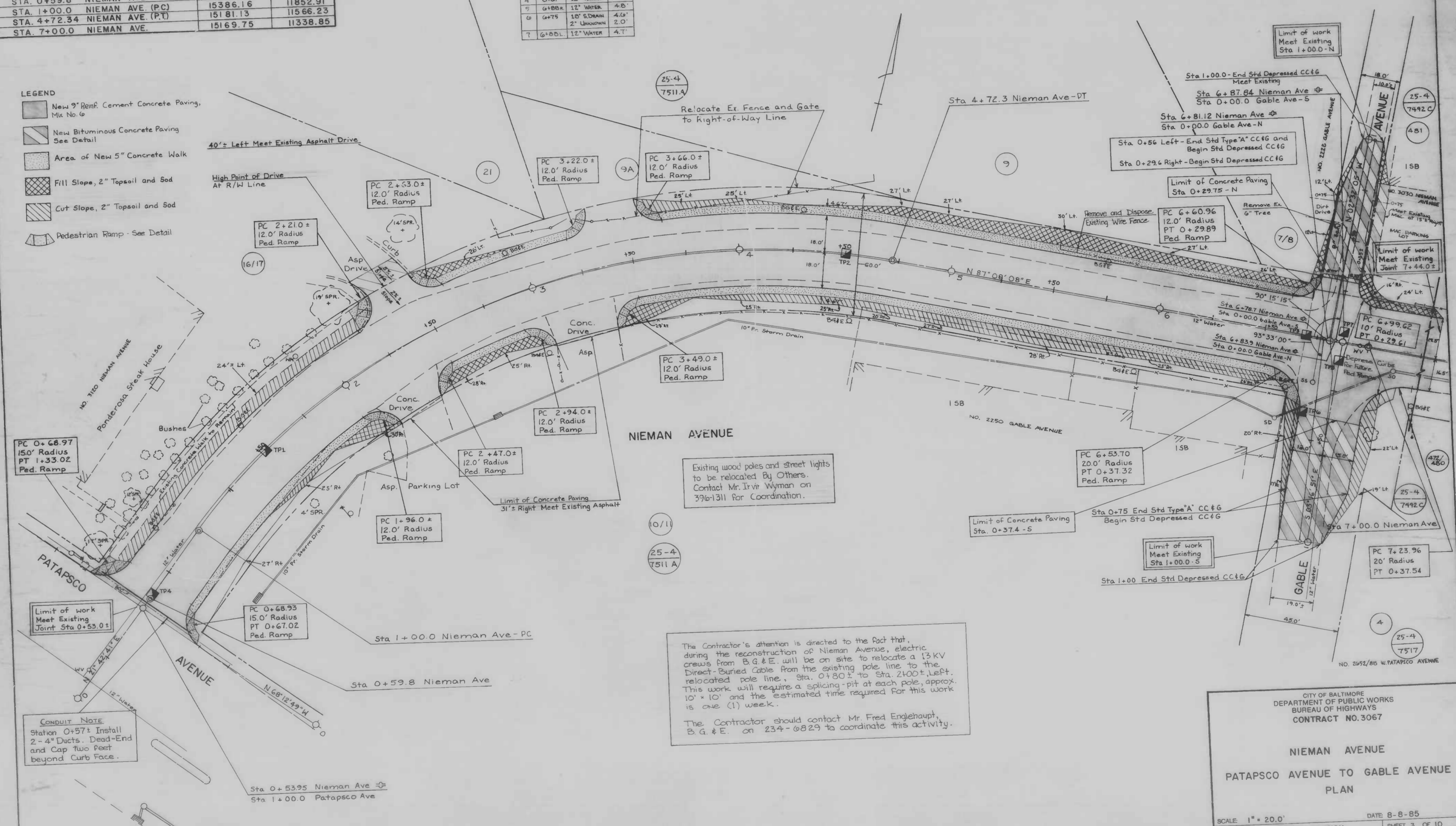
REVISIONS		
NO.	DESCRIPTION	DATE BY

ROADWAY COORDINATES			
POINT DESCRIPTION	SOUTH	WEST	
STA. 0+59.8 NIEMAN AVE.	15423.50	11867.78	
STA. 1+00.0 NIEMAN AVE. (P.C.)	15386.16	11852.91	
STA. 4+72.3 NIEMAN AVE. (P.T.)	15181.13	11566.23	
STA. 7+00.0 NIEMAN AVE.	15169.75	11338.85	

TEST PITS			
No.	LOCATION	UTILITY	COVER
1	1+50	12" WATER	4.5'
2	4+50	12" WATER	8.0'
3	6+70	8" GAS	3.2'
4	0+61	12" WATER	3.8'
5	6+88	12" WATER	4.0'
6	6+75	10" DRAIN	4.0'
7	6+80	12" WATER	2.0'

CURVE DATA						
DESCRIPTION	PC STA.	PT STA.	Δ	R	T	LC
CONSTRUCTION	1+00.0	4+72.3	65-25-27	326.08	209.437	372.34
						352.439

- LEGEND**
- New 9" Reinr. Cement Concrete Paving, Mix No. 6
 - New Bituminous Concrete Paving See Detail
 - Area of New 5" Concrete Walk
 - Fill Slope, 2" Topsoil and Sod
 - Cut Slope, 2" Topsoil and Sod
 - Pedestrian Ramp - See Detail



Existing wood poles and street lights to be relocated by Others. Contact Mr. Irvin Wyman on 396-1311 for Coordination.

The Contractor's attention is directed to the fact that, during the reconstruction of Nieman Avenue, electric crews from B.G.&E. will be on site to relocate a 13KV Direct-Buried Cable from the existing pole line to the relocated pole line, Sta. 0+80± to Sta. 2+00±, Left. This work will require a splicing pit at each pole, approx. 10' x 10' and the estimated time required for this work is one (1) week.

The Contractor should contact Mr. Fred Englehaupt, B.G.&E. on 234-6829 to coordinate this activity.

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3067

NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
PLAN

SCALE: 1" = 20.0'
HIGHWAY ENGINEERING DIVISION

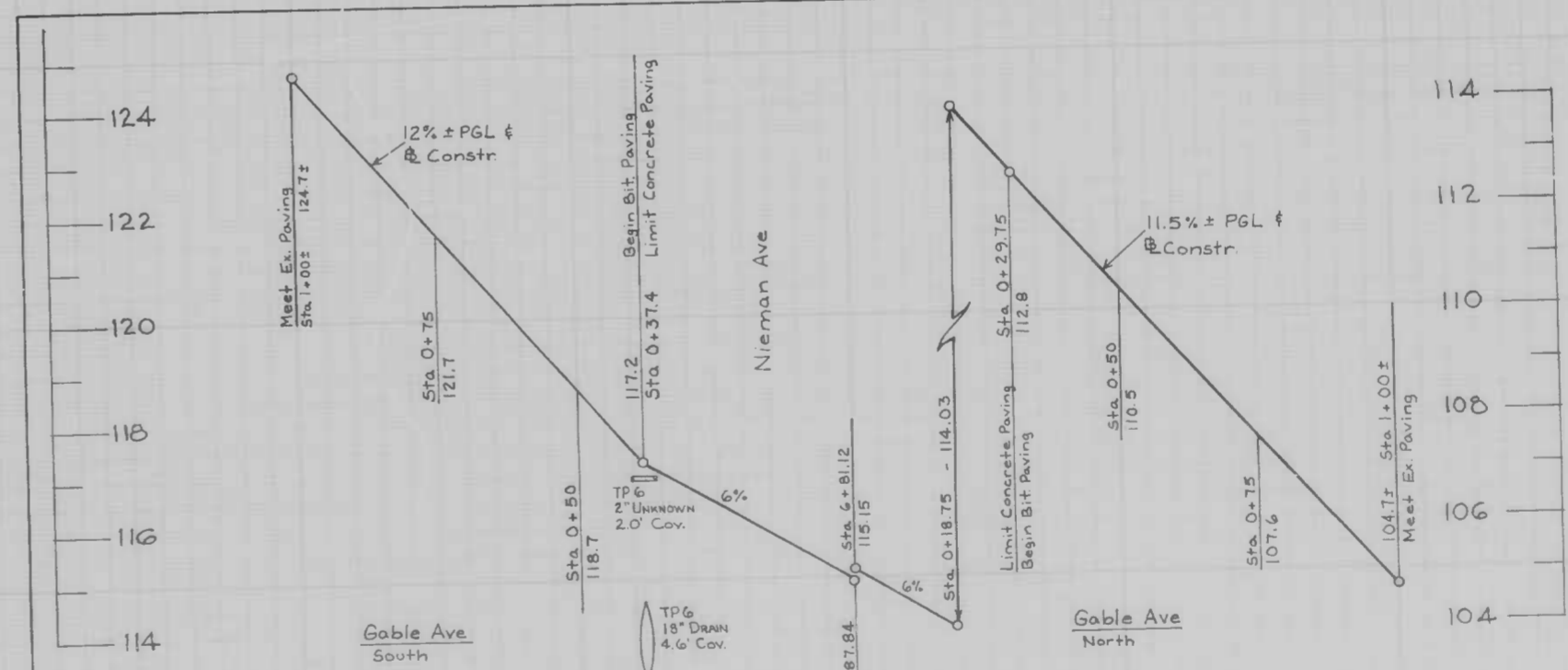
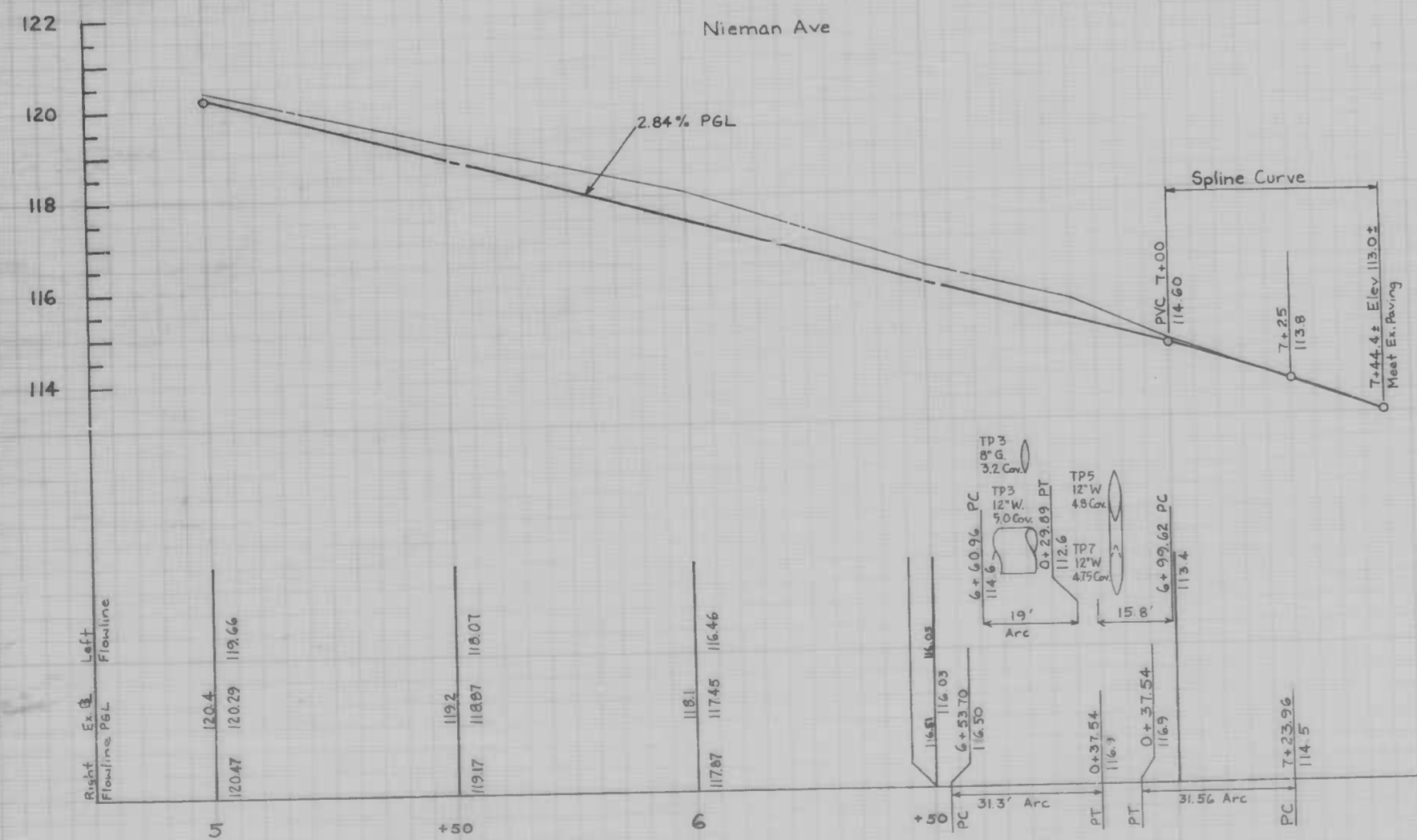
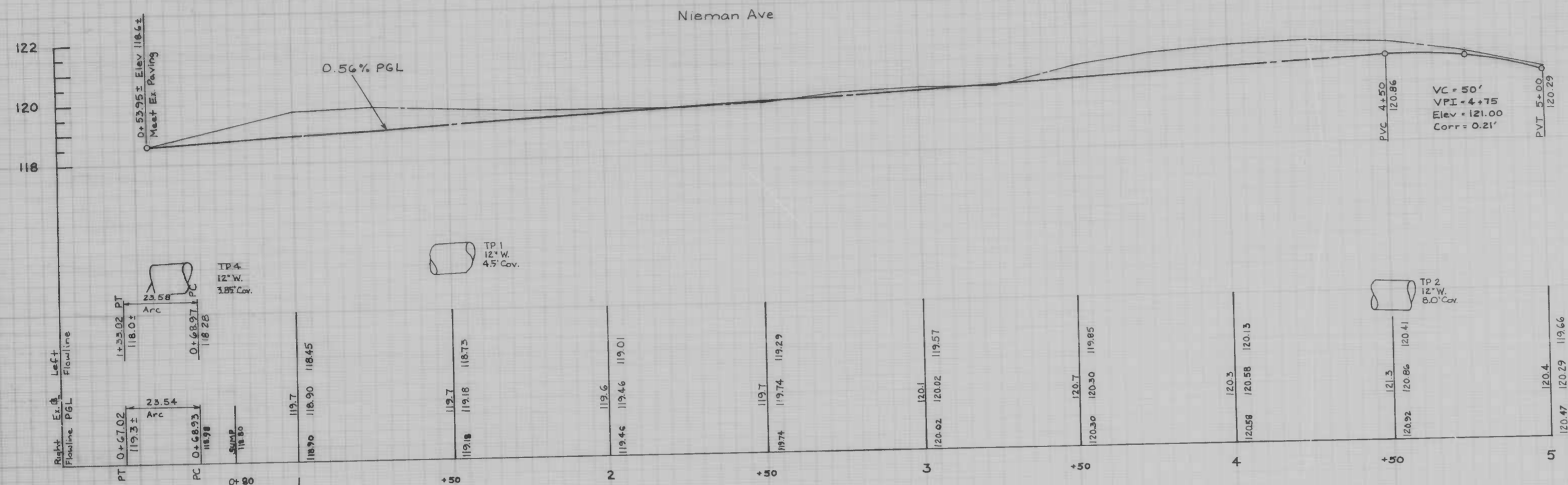
DATE: 8-8-85
SHEET 3 OF 10

Field Book - L1177

DRAWN BY C. Webber
EXAMINED BY

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONT NO 3067

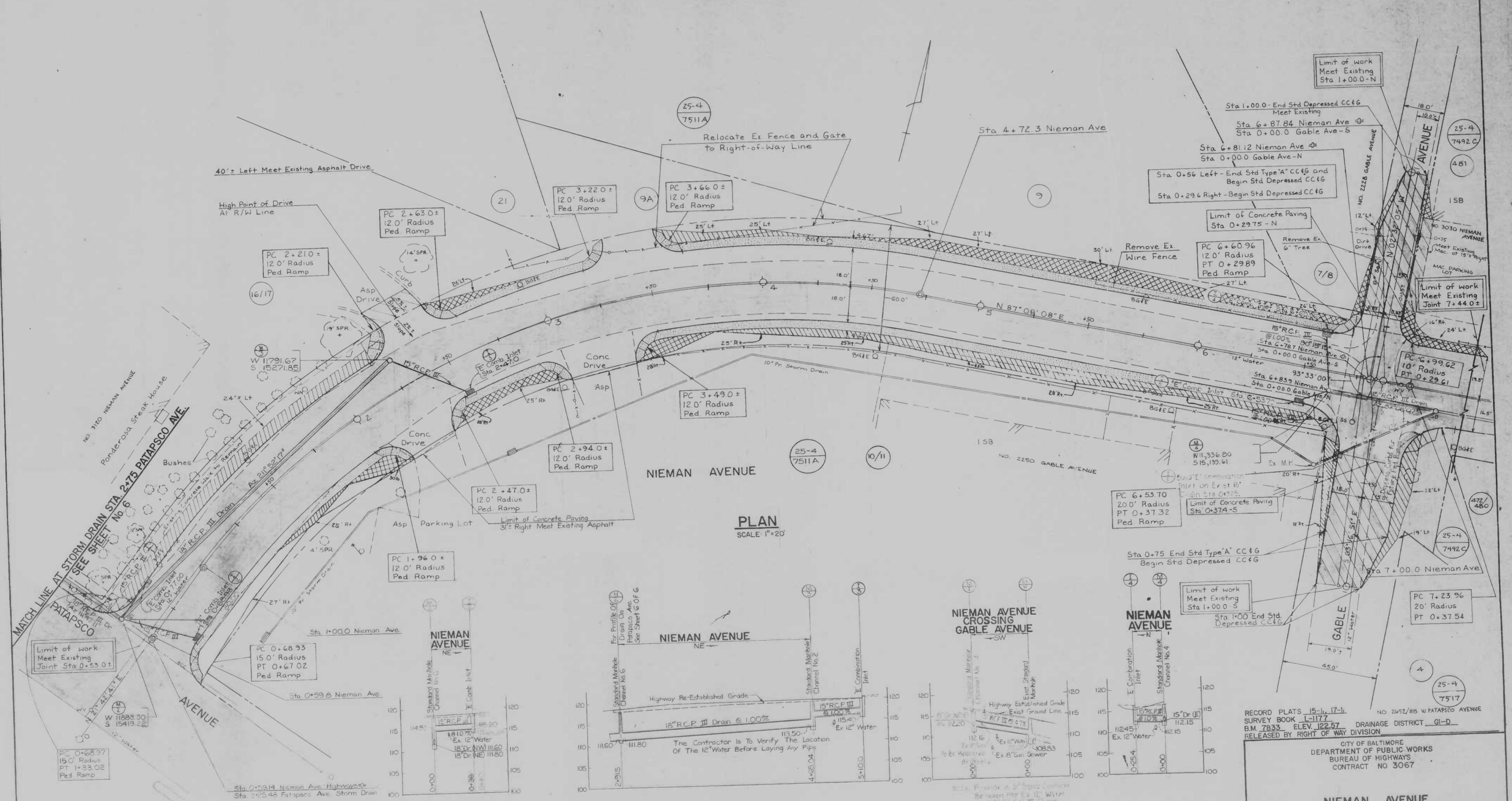
NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
PROFILE

SCALE HOR 1" = 20' VER 1" = 2'
DATE 8-8-85
HIGHWAY ENGINEERING DIVISION SHEET 4 OF 10

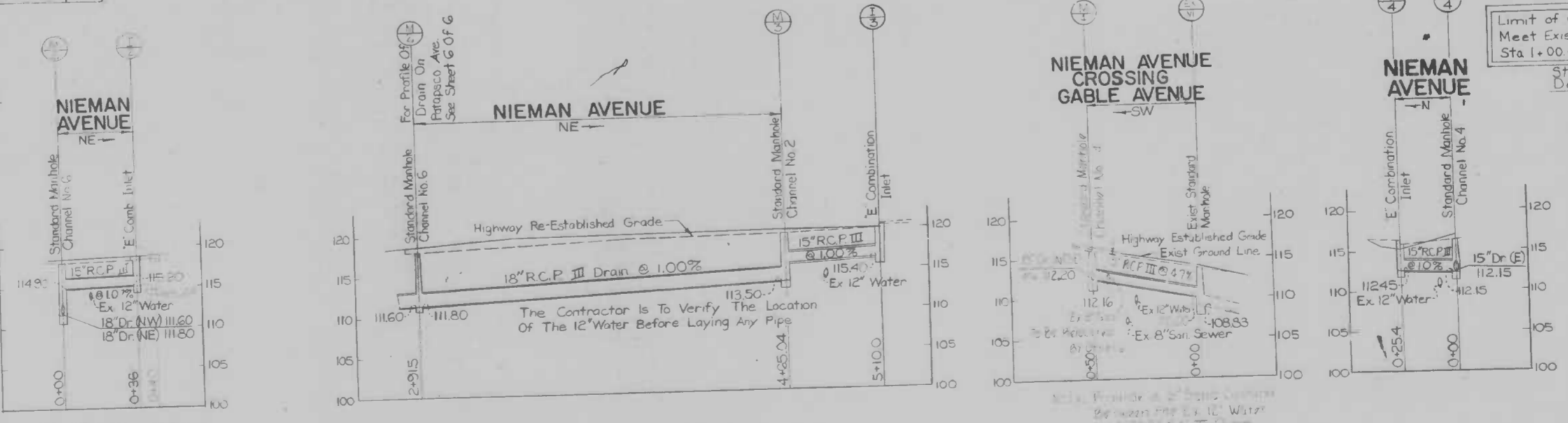
FILE REF.

FILE REF. ESD - 80 - 313

REVISIONS		
NO	DESCRIPTION	DATE BY
1	Changed location of Inlet	8/12/85 WHE



PLAN
SCALE: 1"=20'



PROFILES
SCALE: HORZ. 1"=40'
VERT. 1"=10'

RECORD PLATS 15-1, 17-1
SURVEY BOOK L-1177
B.M. 7833 ELEV. 122.57
RELEASED BY RIGHT OF WAY DIVISION

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3067

**NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
STORM DRAIN PLAN AND PROFILE**

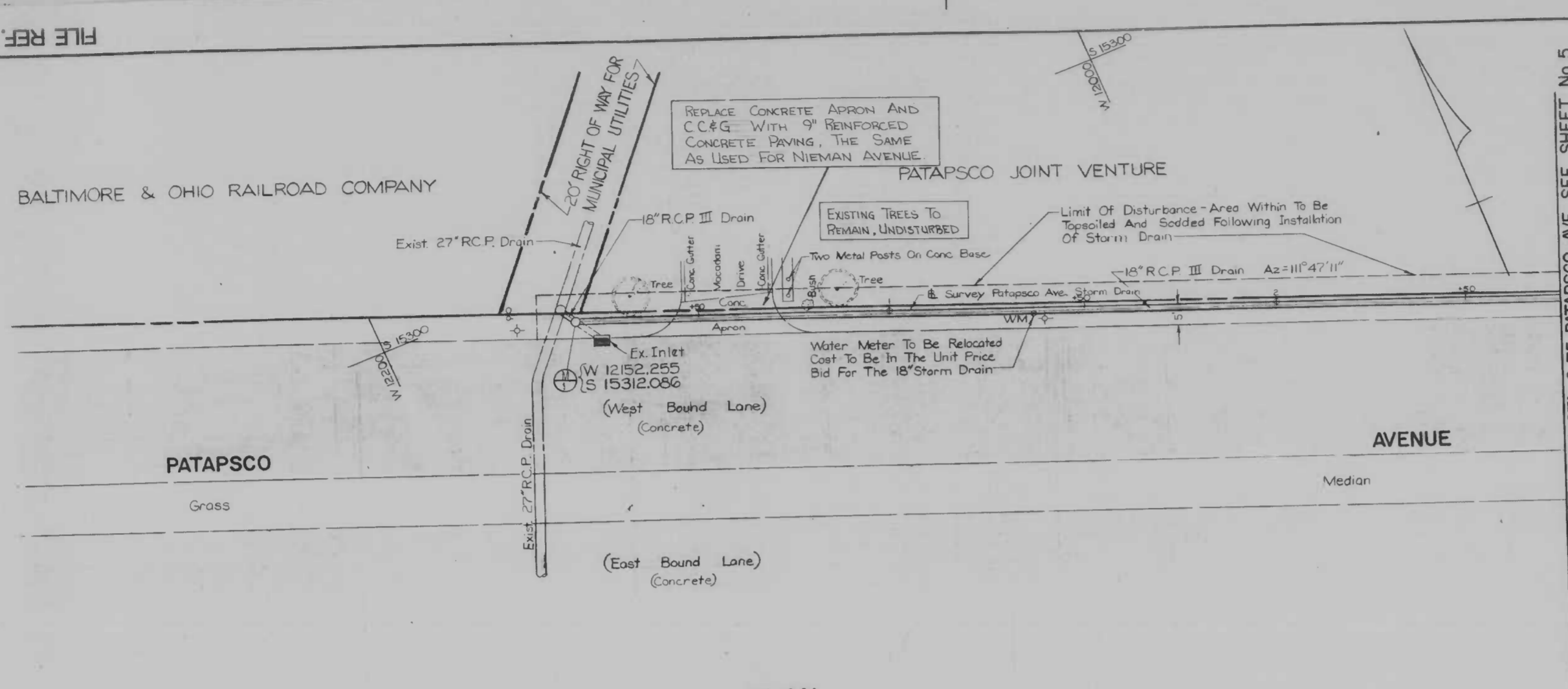
SCALE: AS SHOWN DATE: 8-8-85
ENVIRONMENTAL SERVICES DIVISION SHEET 5 OF 10

Field Book - 11177
DRAWN BY WILLIAM EDWARDS
EXAMINED BY

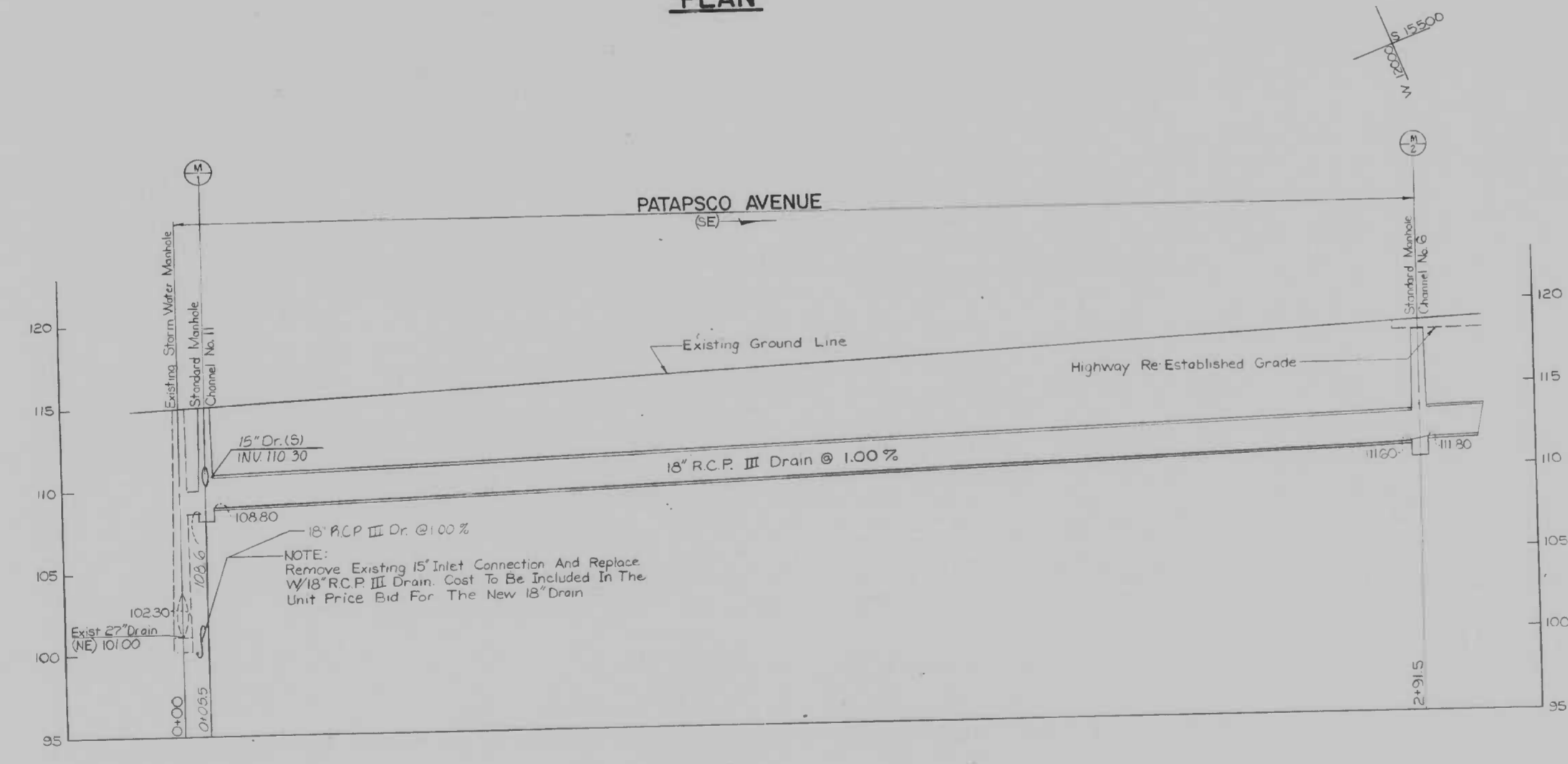
ENVIRONMENTAL SERVICES DIVISION

FILE REF. ESD - 80 - 313

FILE REF. ESD-80-314



PLAN



PROFILE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

- 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) 559-C100
Bureau Of Highways, Street Lighting 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 Cradle 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: Reinforce Concrete Pipe Drain
Type Joint: O' Ring Rubber Gasket
Reinforce Concrete Pipe Inlet Conn: Cement Mortar Or O' Ring Rubber Gasket.

ROADWAY COORDINATES		
Point Description	South	West
Survey Storm Drain	15304.57	12167.27
Station 0+00	15424.13	11868.03

SURVEY BOOK L-1177 RECORD PLATS 15-1, 17-1
B.M. 7833 ELEV. 122.57 DRAINAGE DISTRICT GI-D
RELEASED BY RIGHT OF WAY DIVISION

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3067

NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
STORM DRAIN PLAN AND PROFILE

SCALE: HORIZ. 1"=20', VERT. 1"=5' DATE: 8-8-85
ENVIRONMENTAL SERVICES DIVISION SHEET 6 OF 10

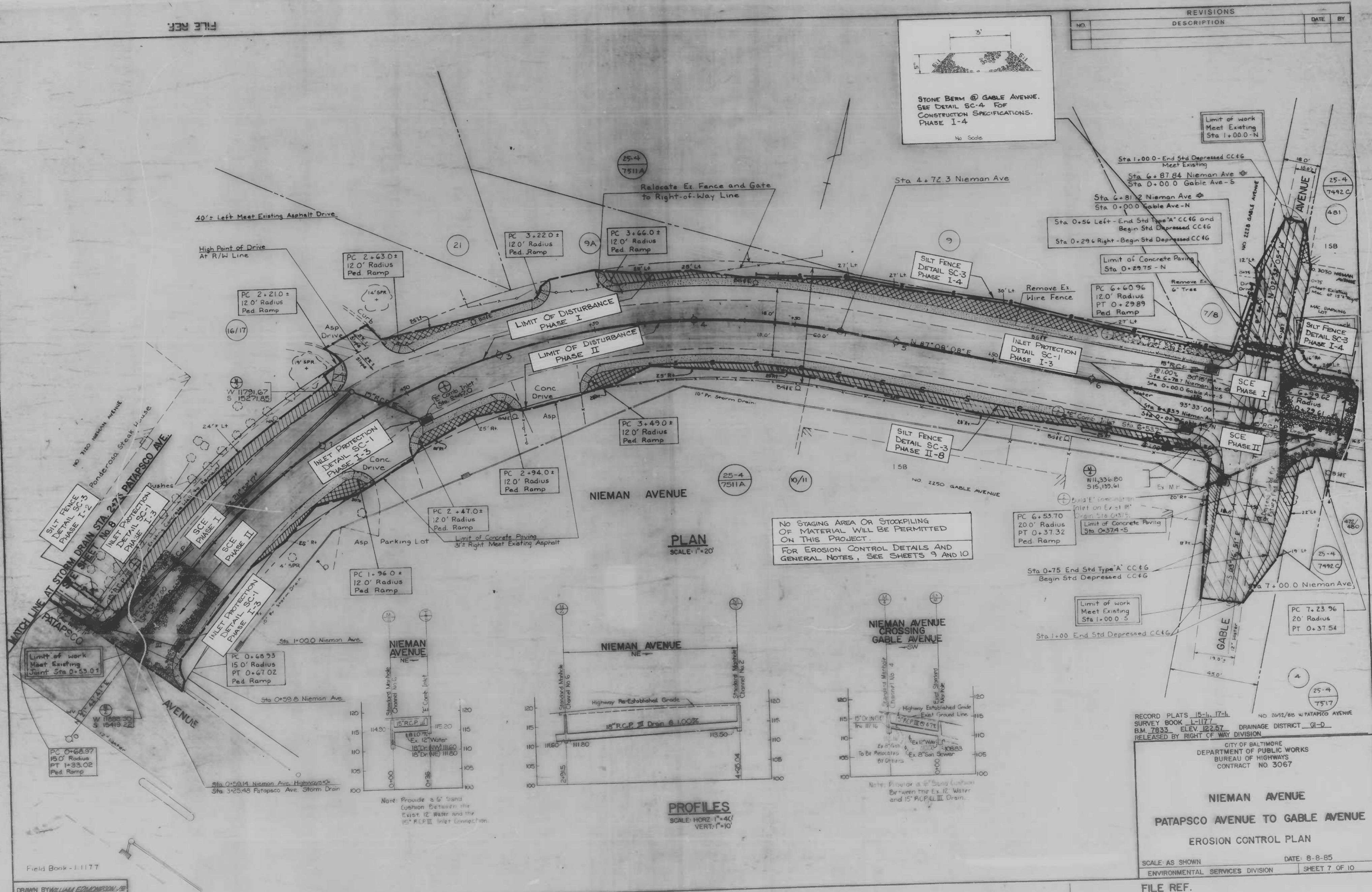
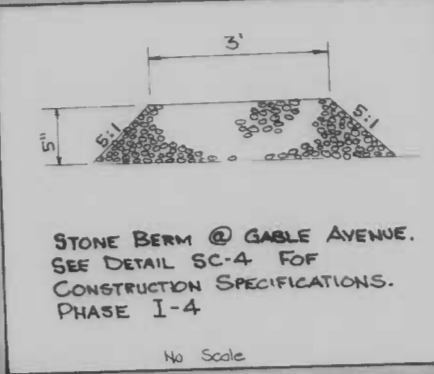
DRAWN BY WILLIAM EDMONSON
EXAMINED BY *Wm. Phelps*

CEUPPEL & EDGER 8-953

FILE REF. ESD - 80 - 314

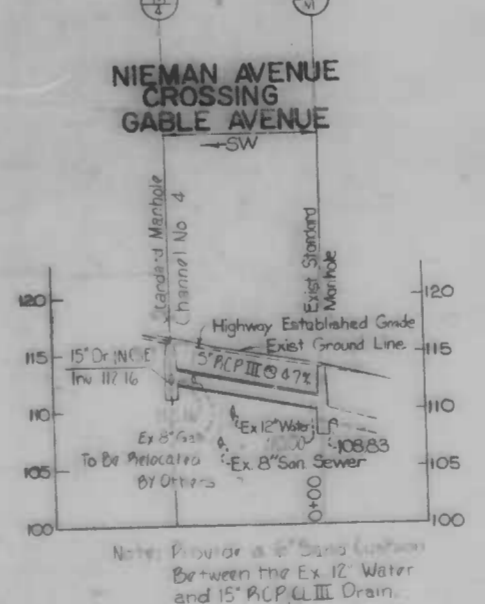
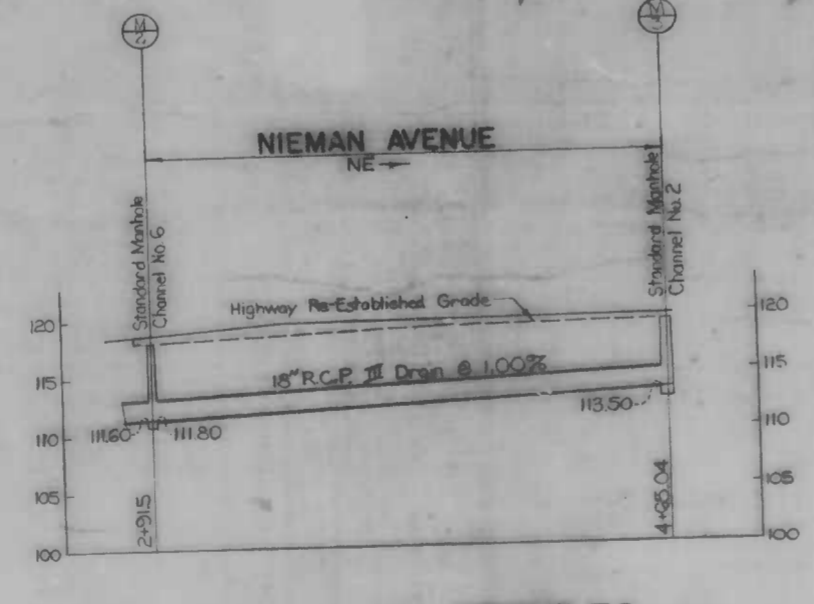
FILE REF

REVISIONS		
NO	DESCRIPTION	DATE BY



NO STAGING AREA OR STOCKPILING OF MATERIAL WILL BE PERMITTED ON THIS PROJECT.
FOR EROSION CONTROL DETAILS AND GENERAL NOTES, SEE SHEETS 9 AND 10

PLAN
SCALE: 1"=20'



PROFILES
SCALE: HORIZ. 1"=40'
VERT. 1"=10'

RECORD PLATS 15-11, 17-1
SURVEY BOOK 1-1177
B.M. 7833 ELEV. 122.57 DRAINAGE DISTRICT G-9
RELEASED BY RIGHT OF WAY DIVISION

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3067

**NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
EROSION CONTROL PLAN**

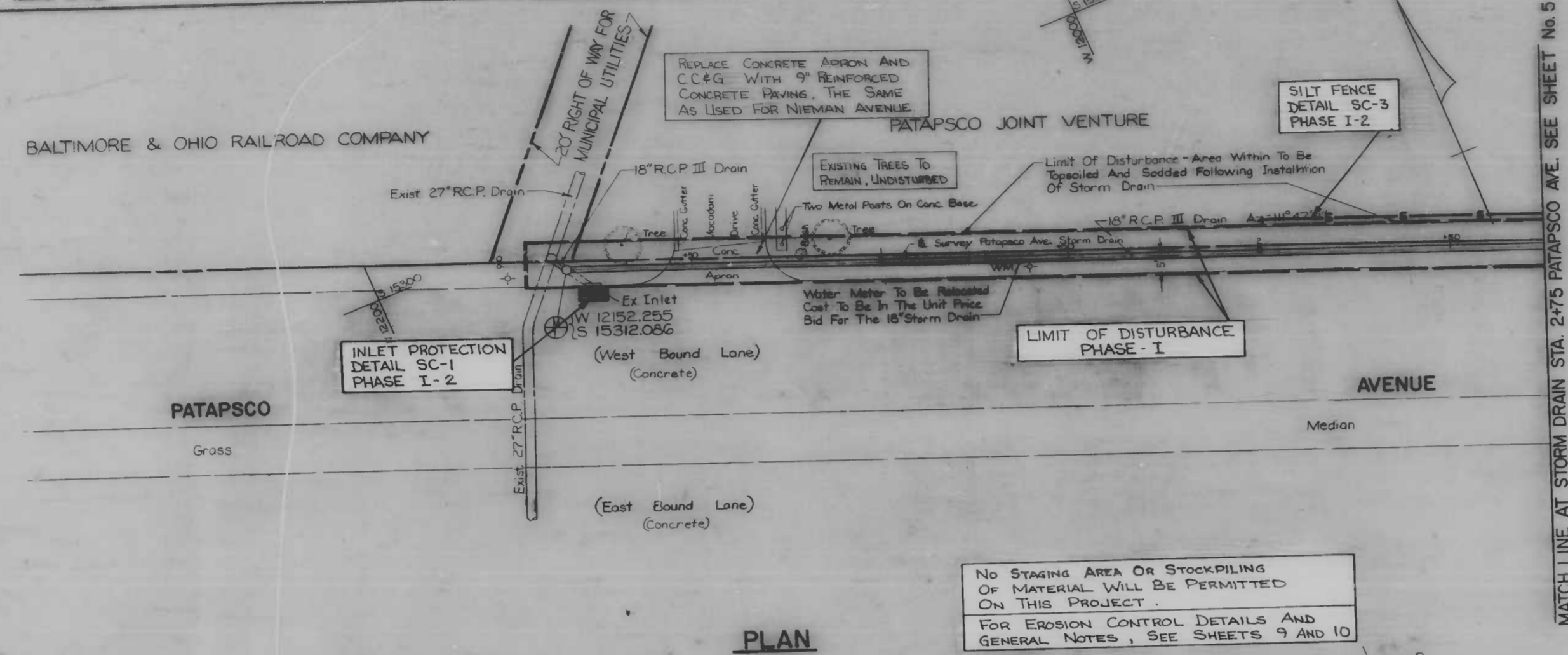
SCALE: AS SHOWN DATE: 8-8-85
ENVIRONMENTAL SERVICES DIVISION SHEET 7 OF 10

DRAWN BY WILLIAM EDWARDS
EXAMINED BY [Signature]

FILE REF.

FILE REF.

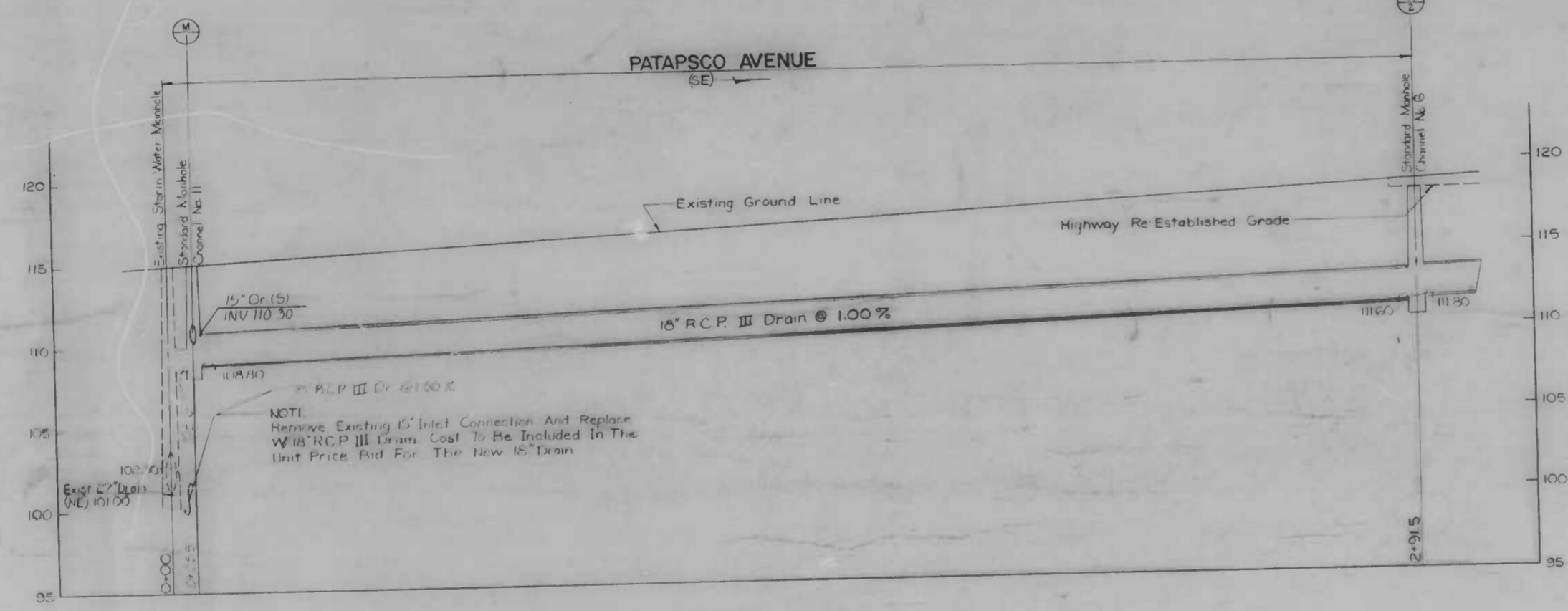
REVISIONS		
NO.	DESCRIPTION	DATE BY



NO STAGING AREA OR STOCKPILING OF MATERIAL WILL BE PERMITTED ON THIS PROJECT.
 FOR EROSION CONTROL DETAILS AND GENERAL NOTES, SEE SHEETS 9 AND 10

- GENERAL NOTES:**
- Standard Type No. 1 'E' Frame And Grates (B.C. 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) 559-0100
 - Bureau Of Highways, Street Lighting 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 Cradle Is Required Under All Pipe Except Inlet Connectors. 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	Type Joint
Reinforced Concrete Pipe Drain	O Ring Rubber Gasket
Reinforced Concrete Pipe Inlet Cam	Cement Mortar Or O Ring Rubber Gasket



ROADWAY COORDINATES		
Point Description & Survey Station	South	West
Station 0+00	15304.57	12167.27
Station 3+25.48	15424.13	11868.03

SURVEY BOOK L-1177 RECORD PLATS 15-1, 17-1
 BM 7833 ELEV 122.57 DRAINAGE DISTRICT 61-D
 RELEASED BY RIGHT OF WAY DIVISION

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3067

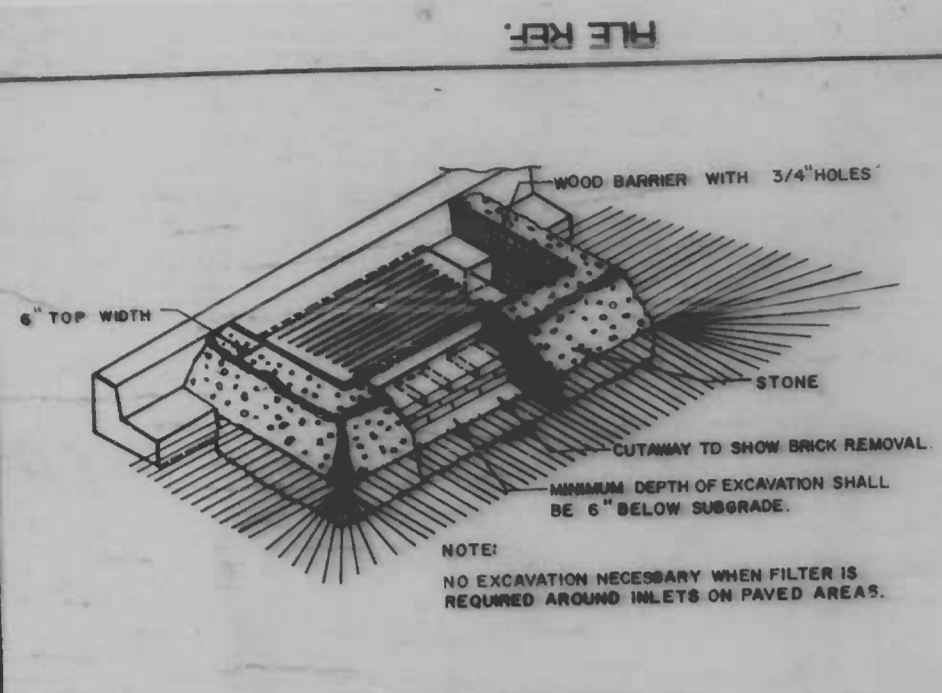
PATAPSCO AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
EROSION CONTROL PLAN

SCALE: HORIZ. 1"=20', VERT. 1"=5' DATE: 8-8-85
 ENVIRONMENTAL SERVICES DIVISION SHEET 8 OF 10

DRAWN BY WILLIAM EDWARDS
 EXAMINED BY Wm. Edwards

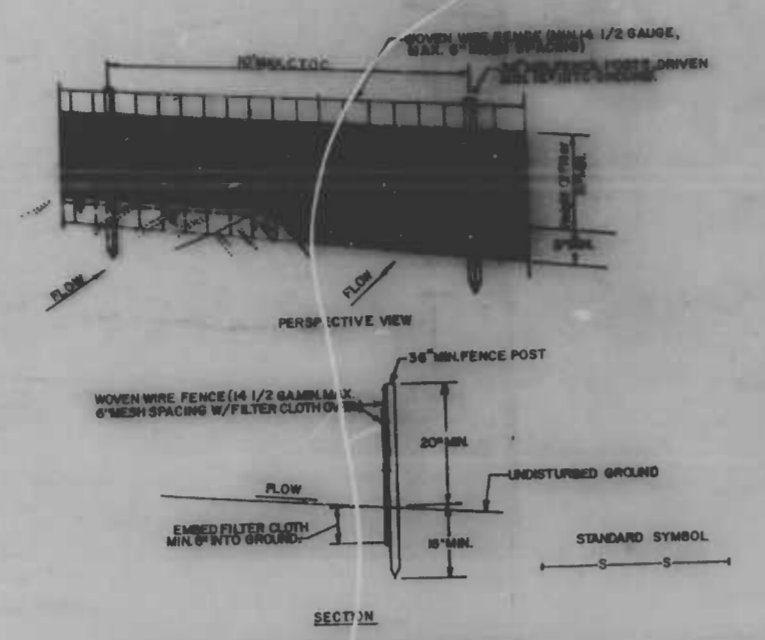
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



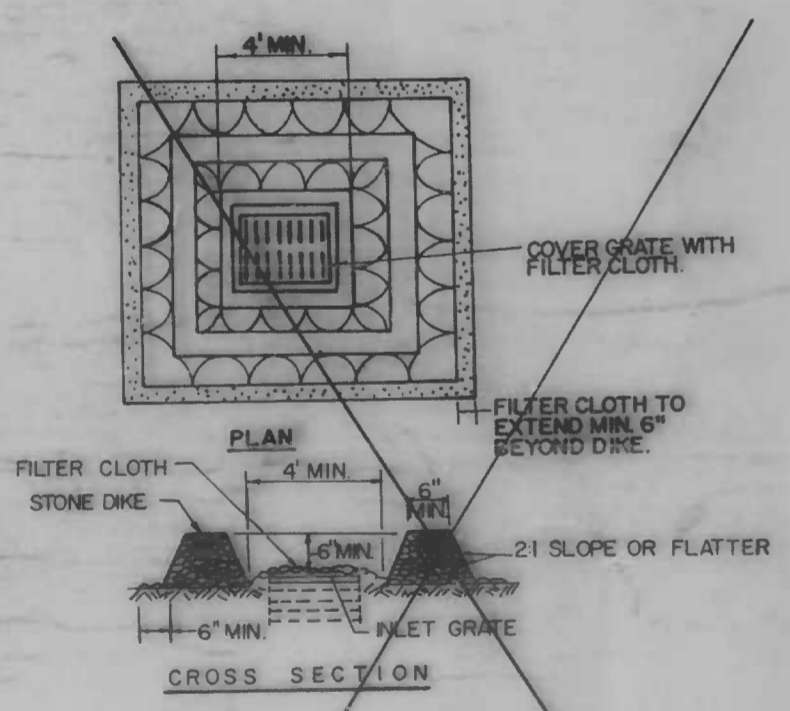
- CONSTRUCTION SPECIFICATIONS**
- Structure shall be inspected after each storm and repairs made as needed.
 - Construction Operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - The structure shall be removed when drainage area has been properly stabilized.
 - The crushed stone used in the outlet shall meet AASHTO Designation M3 size no. 2 or 24 or its equivalent such as MSHA No. 2. Gravel meeting the above gradation may be used if crushed stone is not available. Crusher Run is not acceptable.

**INLET PROTECTION
DETAIL SC-1**



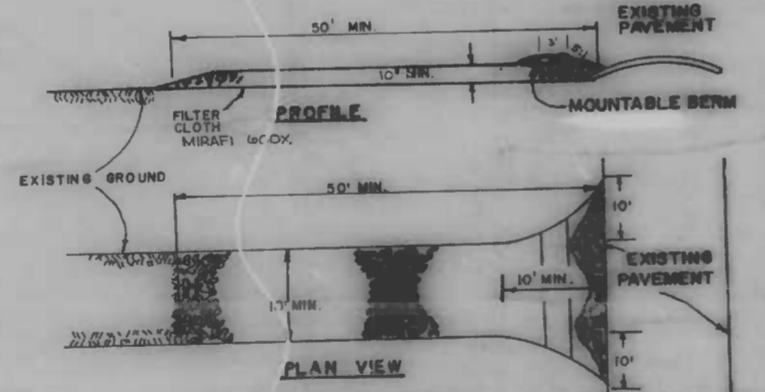
- Woven Wire Fence to be fastened securely to fence posts with wire ties or staples.
 - Filter Cloth to be fastened securely to Woven Wire Fence with clean steel staples every 24" at top and mid section.
 - When two sections of Filter Cloth adjoin each other they shall be overlapped by six inches and folded.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.
- POSTS: Steel either T or I Type or 2" Hardwood
FENCE: Woven Wire, 36 Ga. 6" Max Mesh opening
FILTER CLOTH: Poly-Fibrous X, Mifrafil 100X, or approved equal
PREFABRICATED UNIT: GEOPAR, ENVIROFENCE, OR Equal

**SILT FENCE
DETAIL SC-3**



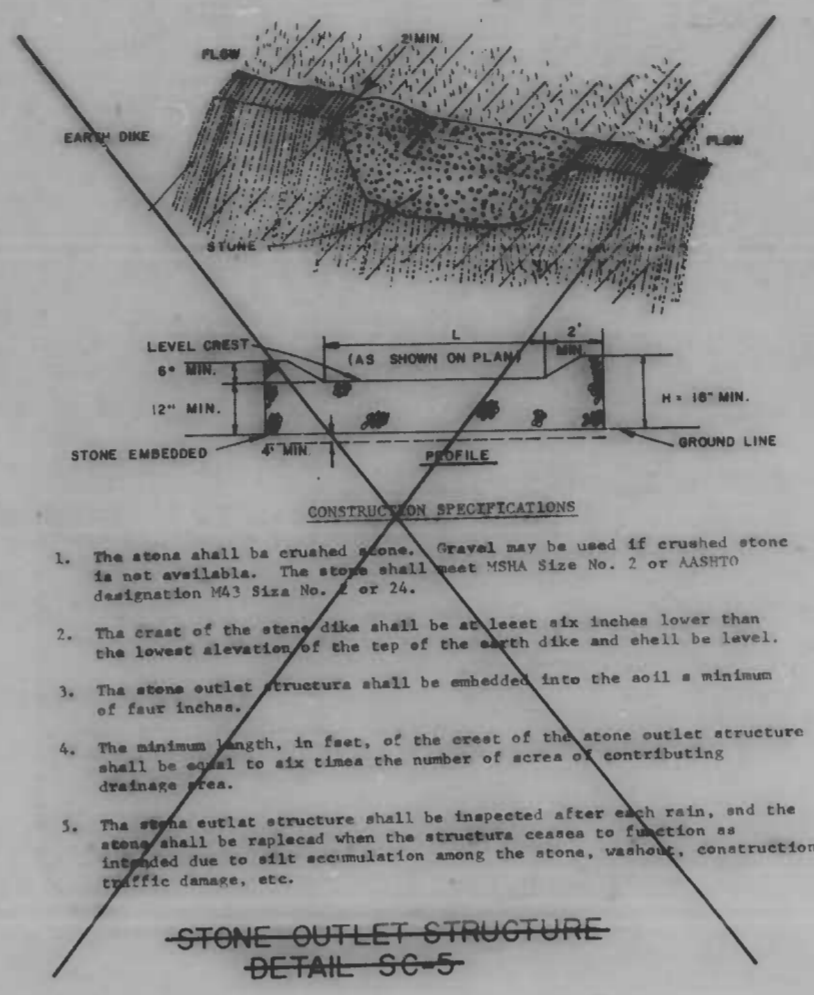
- CONSTRUCTION SPECIFICATIONS**
- Stones for the dike shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA size no. 2 or AASHTO designation M3 size no. 2 or 24. Crusher Run is not acceptable.
 - Filter Cloth shall be Poly-Fibrous X or approved equal.
 - The structure shall be inspected after each rain and repairs made as needed.

**INLET PROTECTION
DETAIL SC-2**

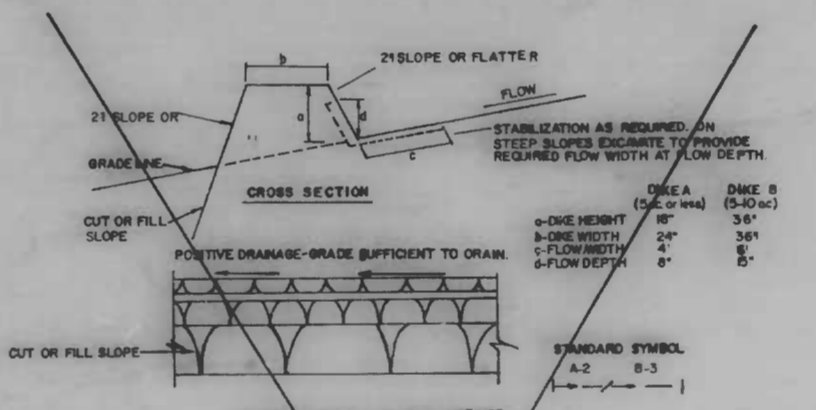


- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or recycled or recycled concrete equivalent.
 - Length - As required, but not less than 30 feet (except on a single road-junction lot where a 30 foot minimum length would apply).
 - Thickness - Not less than ten (10) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where Driveway or entrance occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residential lot.
 - Surface Water - All surface water flowing or deposited around construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be provided.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleaning of any material used to stop sediment. All sediment spilled, dumped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area established with stone and which drains into an approved sediment trapping device.
 - Periodic Inspection and needed maintenance shall be provided after each rain event.

**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 MSHA Size No. 2 or AASHTO designation M3 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 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 silt accumulation among the stone, washed, construction traffic damage, etc.



- 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 the slopes may be flatter if desired to facilitate crossing by construction traffic.
 - Field 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 trapping device such as a sediment basin where either the dike channel or the drainage area above the dike area are not adequately stabilized.
 - Stabilization shall be: (a) by accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (b) Flow channel as per the chart below. Stone dike need not be stabilized.

FLOW CHANNEL STABILIZATION

TYPE OF CHANNEL	CHANNEL GRADE	DIKE A		DIKE B	
		SEEDING	STRAW MULCH	SEEDING	STRAW MULCH
1	0.5-3.0%	Seed and Straw Mulch	Seed and Straw Mulch	Seed and Straw Mulch	Seed and Straw Mulch
2	3.1-5.0%	Seed and Straw Mulch	Seed and Straw Mulch	Seed using Jute, or Excelsior; Sed. 2" Stone	Seed using Jute, or Excelsior; Sed. 2" Stone
3	5.1-8.0%	Seed with Jute, or Sed. 2" Stone	Seed with Jute, or Sed. 2" Stone	Seed with Jute, or Sed. 2" Stone	Seed with Jute, or Sed. 2" Stone
4	8.1-20%	Seed with Jute, or Sed. 2" Stone	Seed with Jute, or Sed. 2" Stone	Seed with Jute, or Sed. 2" Stone	Seed with Jute, or Sed. 2" Stone

NOTE: Stone to be 2 inch stone, or recycled concrete equivalent, in a layer of least 3 inches in thickness and be pressed into the soil with construction equipment.
Rip-Rap to be 4-8 inches in a layer at least 3 inches thickness and pressed 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.

LEGEND

- LIMITS OF DISTURBANCE
- [Symbol] INLET PROTECTION (SC-1 AS NOTED)
- S-S- SILT FENCE (SC-3)
- [Symbol] STABILIZED CONSTRUCTION ENTRANCE (SC-4)
- [Symbol] STONE OUTLET STRUCTURE (SC-5)
- [Symbol] EARTH / STONE DIKE (SC-6/7)

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
CONTRACT NO. 3067

NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
SOIL EROSION / SEDIMENT CONTROL DETAILS

SCALE: NO SCALE
HIGHWAY ENGINEERING DIVISION
DATE: SHEET 9 OF 10

DRAWN BY A. MOSCATO
EXAMINED BY

FILE REF.

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REVISIONS		
NO.	DESCRIPTION	DATE BY

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 oil 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 the 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 36.06

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) degree 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-filled surface true to line and cross section and any raking required to accomplish this will be done prior to the placing of the sod.

Fertilizers: All areas to be sodded shall be fertilized with a commercial fertilizer of an analysis 10-10-10 and Ureafarm 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 Ureafarm 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 #	
				PHASE I	PHASE II
9" CONC.	X		TEMPORARY CR-60 SUBBASE	#5	#8
	X		PERMANENT 9" CONCRETE	#6	#9
BIT CONC. PAV.	X		TEMPORARY CR-60 SUBBASE	#5	#8
	X		PERMANENT BITUMINOUS CONC.	#6	#9
CONC. SIDEWALK	X		TEMPORARY ANNUAL RYEGRASS	#5	#8
	X		PERMANENT CONCRETE	#6	#9
FILL SLOPE		X	TEMPORARY ANNUAL RYEGRASS	#5	#8
		X	PERMANENT SOD KENTUCKY BLUEGRASS		#10
CUT SLOPE		X	TEMPORARY ANNUAL RYEGRASS	#5	#8
		X	PERMANENT SOD KENTUCKY BLUEGRASS		#10

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.

* SEE SPECIAL PROVISIONS FOR COMPLETE SEQUENCE OF OPERATIONS.

TOTAL DISTURBED AREA: 43,399 S.F.
TOTAL CUT: 1,996 C.Y.
TOTAL FILL: 77 C.Y.
TOTAL EXCESS MATERIAL 1,919 C.Y.

NO STAGING AREA OR STOCKPIILING OF MATERIALS WILL BE PERMITTED ON THIS PROJECT.

DRAWN BY
EXAMINED BY

BALTIMORE CITY SEDIMENT CONTROL

Title B, Subtitle II, 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 soil 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* Print Name: James A. Zito Date: _____
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: *Bob Gaudin* Date: 8/21/83 Print Name: _____
Address: _____ Phone: _____

APPROVED BY: *Judith M. ...*
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. 3067
NIEMAN AVENUE
PATAPSCO AVENUE TO GABLE AVENUE
SOIL EROSION / SEDIMENT CONTROL NOTES
SCALE NONE DATE SEPT. 27, 1985
HIGHWAY ENGINEERING DIVISION SHEET 10 OF 10
FILE REF.

FILE REF.

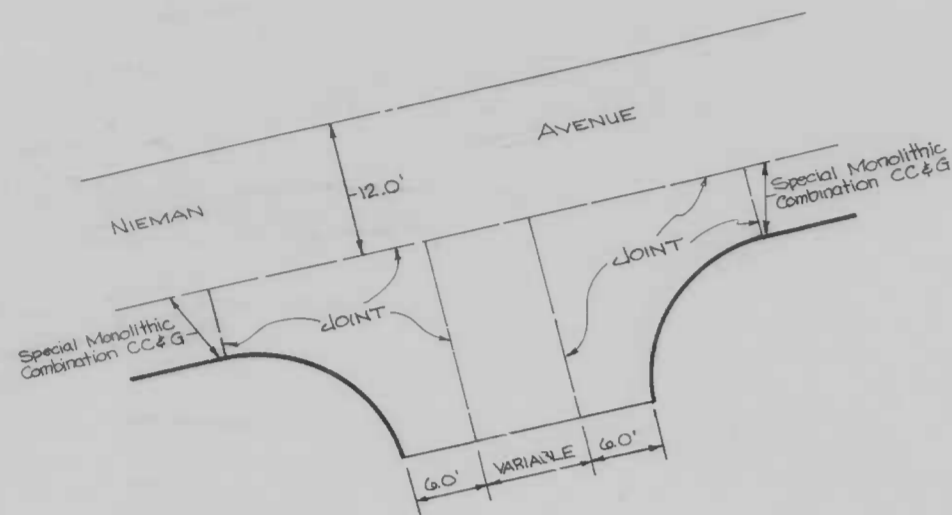
REVISIONS		
NO.	DESCRIPTION	DATE BY

General Notes

Damage to any existing or newly constructed utilities shall be the sole responsibility of the Contractor.
 Contractor shall observe extreme caution at all times when working near or over existing water facilities.
 Soil Erosion and Sediment Control procedures, as defined in Baltimore City Soil Erosion & Sediment Control Manual (Revised May 6, 1976) shall be strictly adhered to.
 Contractor shall exercise caution to avoid damage to all inlets.
 Contractor shall contact the Conduit Section on 396-1311 and 396-3658 before construction is to begin.

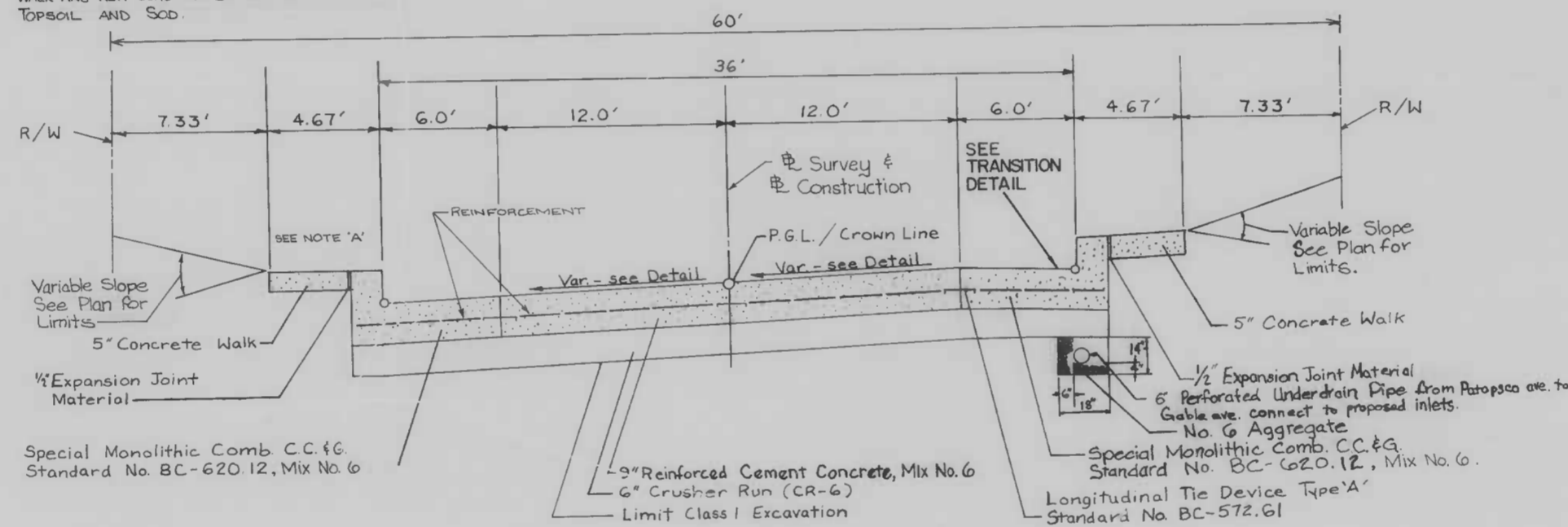
NOTE: OBSTRUCTIONS ARE SHOWN ON THIS DRAWING FOR THE CONVENIENCE OF THE CONTRACTOR ONLY, AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.

NOTE: Baltimore Gas & Electric Co. - C & P Telephone Co. Contact "Miss Utility" at 559-0100 at least 3 working days prior to starting work so that they can arrange to mark the location of their facilities.

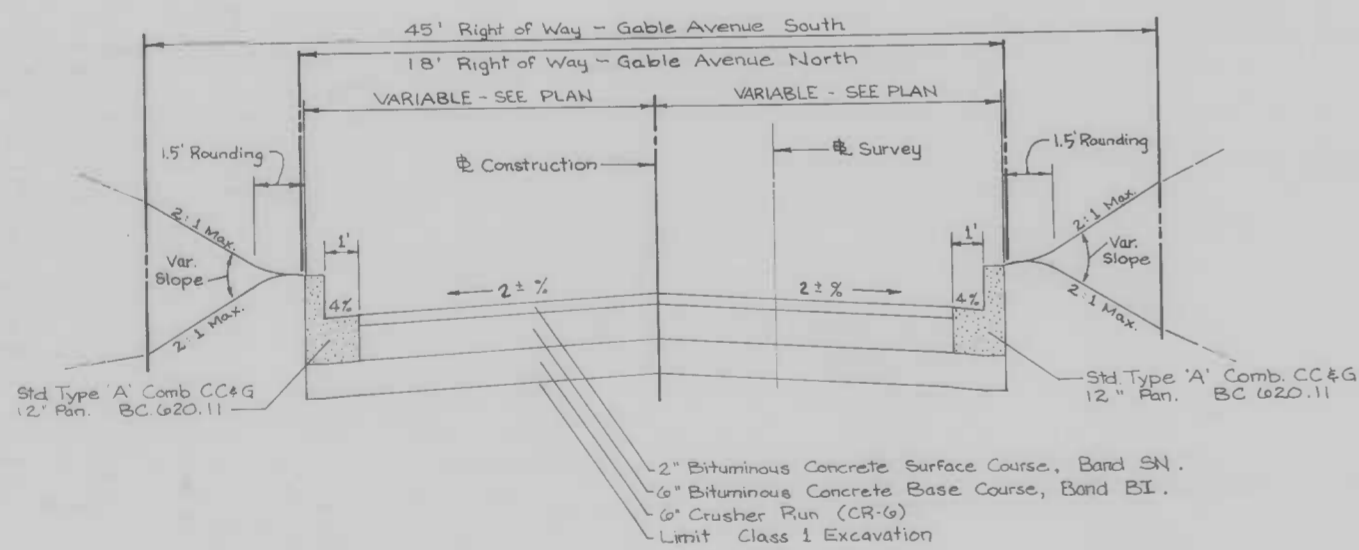


DRIVEWAY ENTRANCE DETAIL

NOTE 'A' - EXISTING CONCRETE WALK ON LEFT SIDE BETWEEN STATION 0+65.1 AND STATION 2+22.2 SHALL REMAIN. AREA BETWEEN EXISTING WALK AND NEW CURB TO BE COVERED WITH TOPSOIL AND SOG.

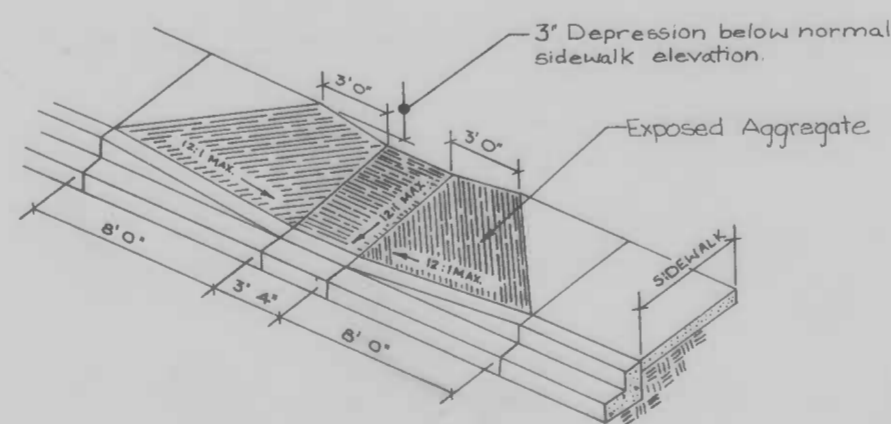


TYPICAL SECTION NIEMAN AVENUE

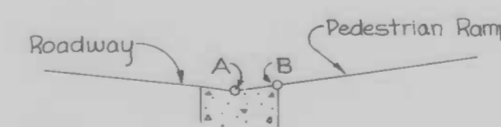


TYPICAL SECTION GABLE AVE.

0+29.75 to 0+75.0 Gable Ave North
 0+37.4 to 0+75.0 Gable Ave South

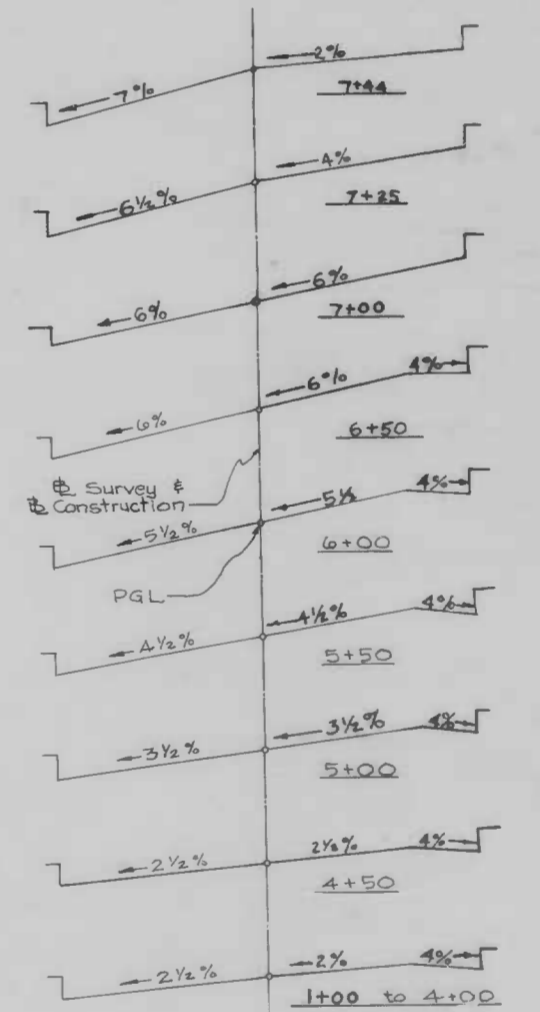


PEDESTRIAN RAMP DETAIL



NOTE: In forming the curb circle in connection with the installation of all pedestrian ramps; be sure to have the elevation @ B 1" higher than A.

PEDESTRIAN RAMP DETAIL NOTE



NIEMAN AVENUE TRANSITION DETAIL

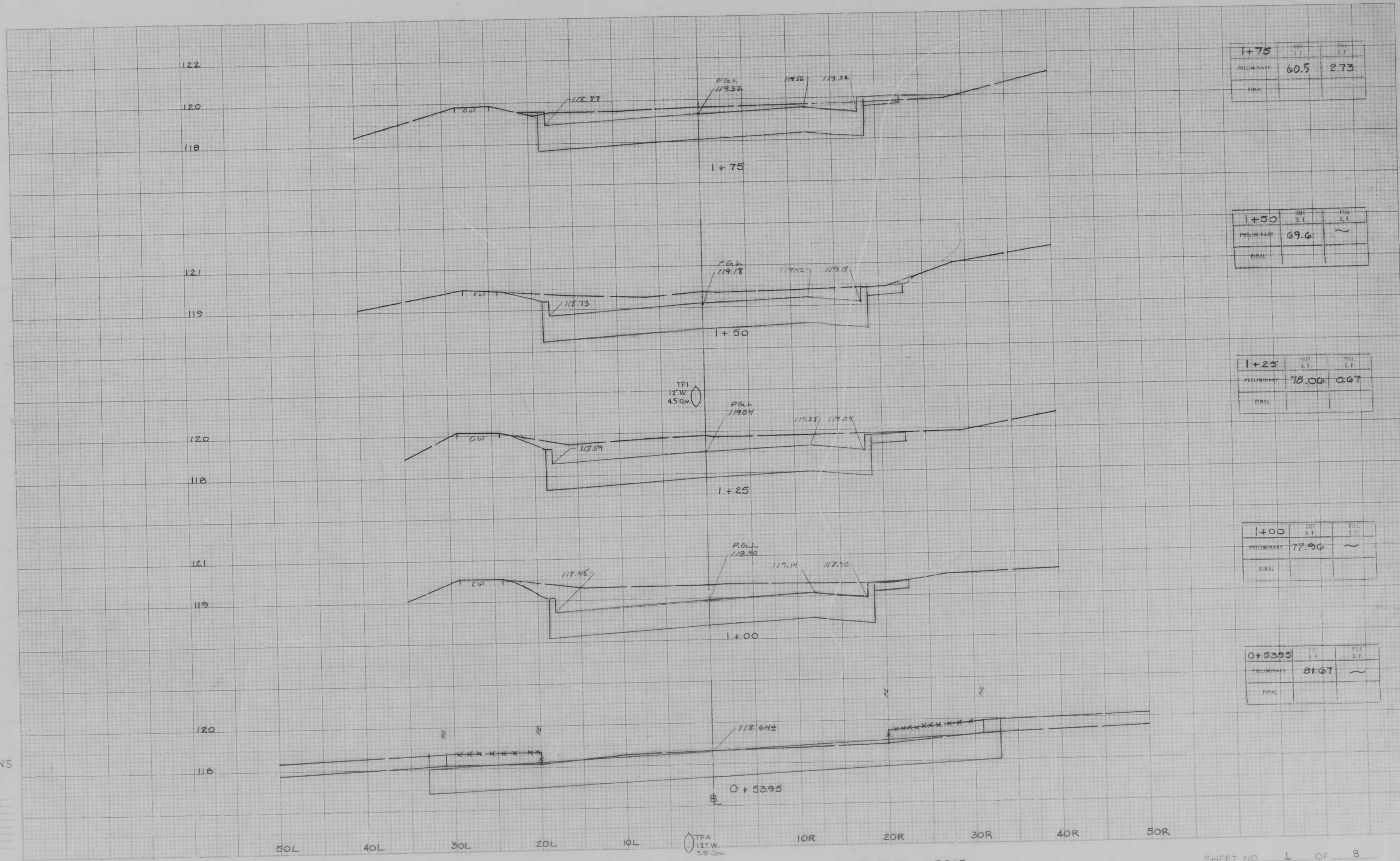
CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3067

NIEMAN AVENUE
 PATAPSCO AVENUE TO GABLE AVENUE
 DETAILS

SCALE: NONE DATE: 8-8-85
 HIGHWAY ENGINEERING DIVISION SHEET 2 OF 10

DRAWN BY
 EXAMINED BY

KUPELL & EISNER 8-3553



1+75	CUT S.F.	FILL S.F.
PRELIMINARY	60.5	2.73
FINAL		

1+50	CUT S.F.	FILL S.F.
PRELIMINARY	69.6	~
FINAL		

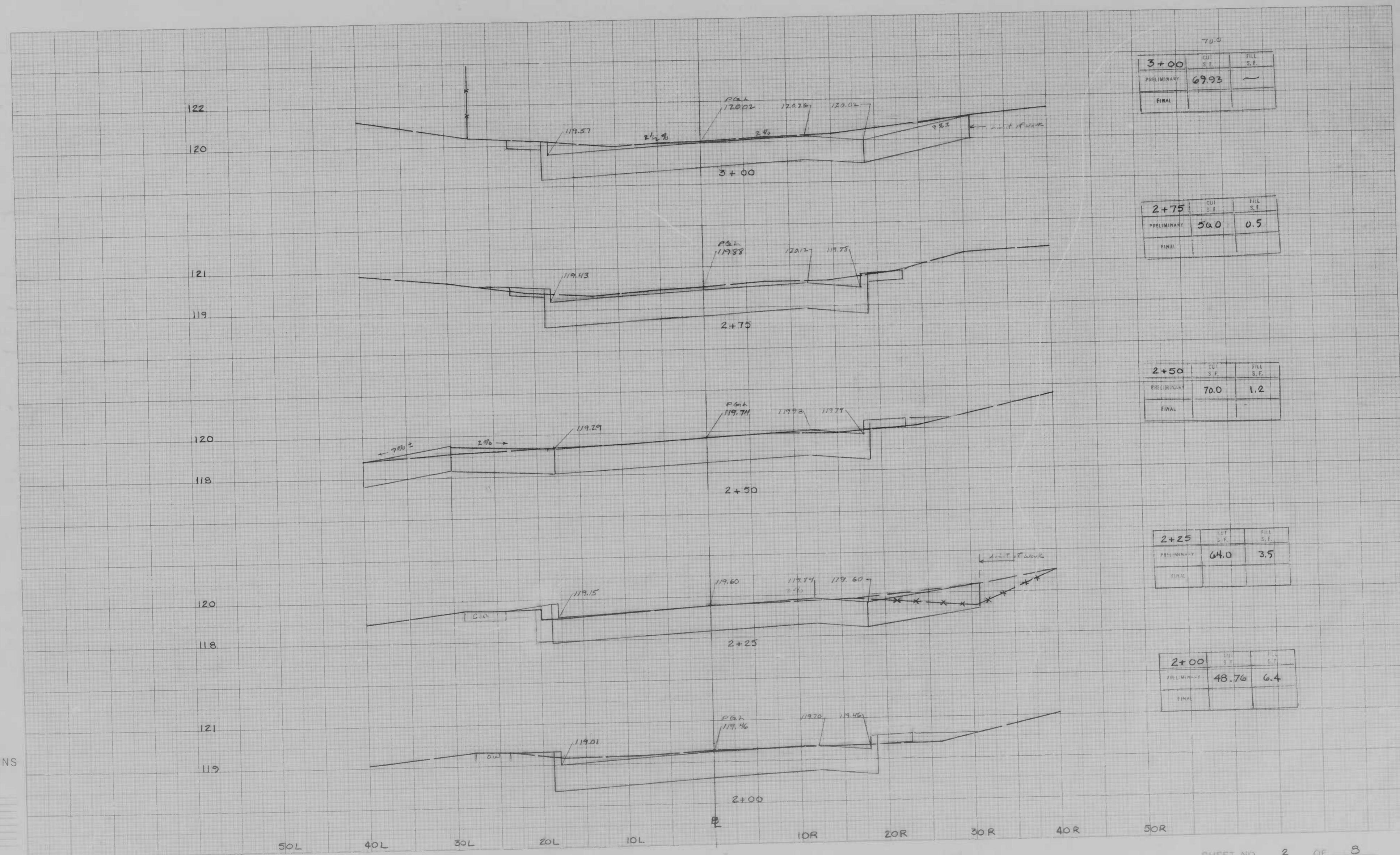
1+25	CUT S.F.	FILL S.F.
PRELIMINARY	78.06	0.67
FINAL		

1+00	CUT S.F.	FILL S.F.
PRELIMINARY	77.96	~
FINAL		

0+53.95	CUT S.F.	FILL S.F.
PRELIMINARY	81.67	~
FINAL		

CROSS SECTIONS
 Scale 1 inch = 10 feet
 5 H.P.
 2 V.P.T.

Original Made by	Date
Original Checked by	Date
Templated by	Date
Area by	Date
Final Checked by	Date
Area by	Date
Area Checked by	Date



		70.9	
3+00	CUT S.F.		FILL S.F.
PRELIMINARY	69.93		
FINAL			

2+75	CUT S.F.		FILL S.F.
PRELIMINARY	56.0		0.5
FINAL			

2+50	CUT S.F.		FILL S.F.
PRELIMINARY	70.0		1.2
FINAL			

2+25	CUT S.F.		FILL S.F.
PRELIMINARY	64.0		3.5
FINAL			

2+00	CUT S.F.		FILL S.F.
PRELIMINARY	48.76		6.4
FINAL			

CROSS SECTIONS

Scale 1 inch = 5' Hor. / 2' Vert.

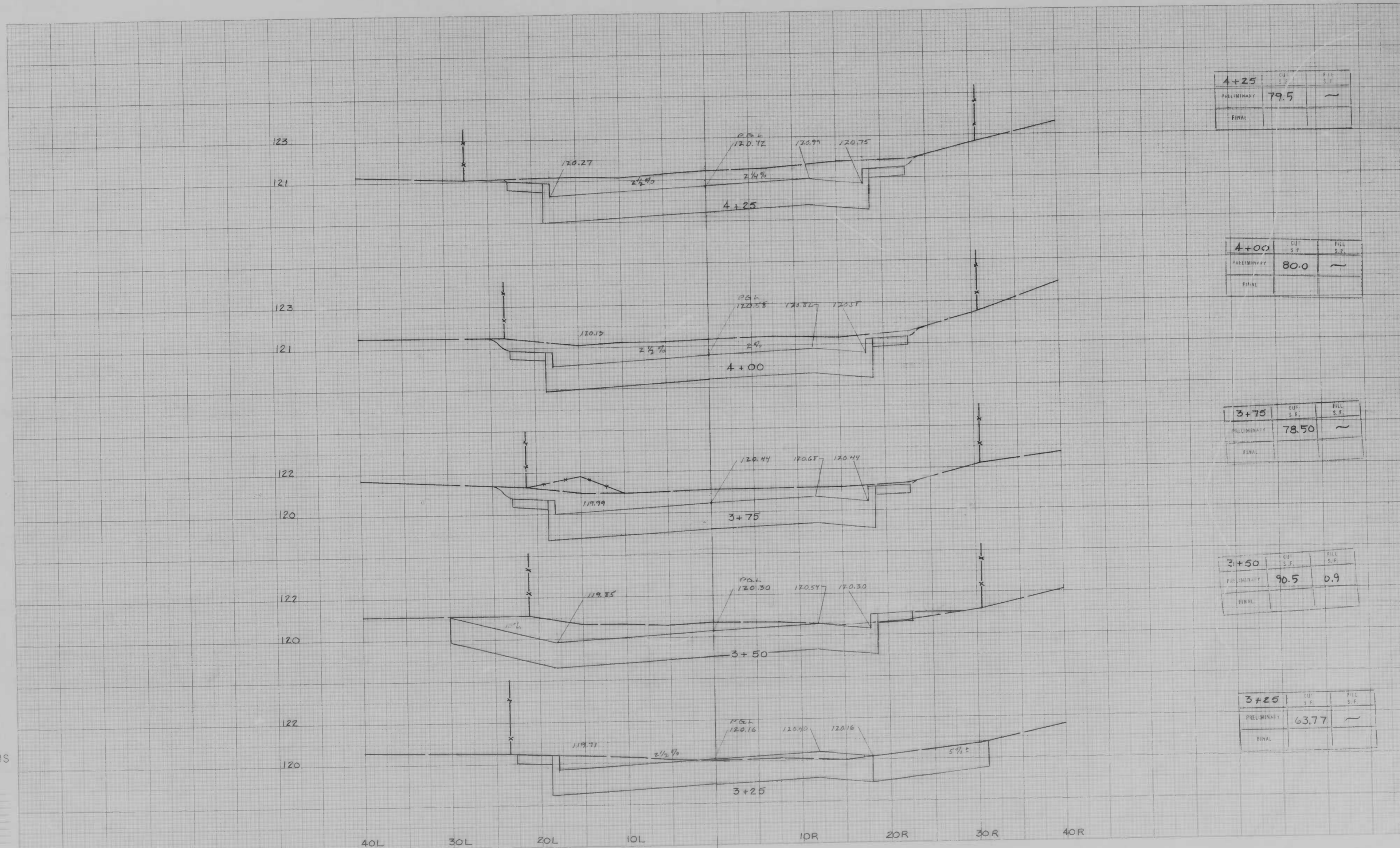
Original Prepared by: _____
 Original Checked by: _____
 Original Date: _____
 Area by: _____
 Original Checked by: _____
 Area by: _____
 Original Checked by: _____

BOOK NO. L1177

PROJECT Nieman Avenue
 DESCRIPTION Nieman Avenue

CONTRACT NO. 3067

SHEET NO. 2 OF 8
 STATION 2+00 TO STATION 3+00



4+25	CUT S.F.	FILL S.F.
PRELIMINARY	79.5	~
FINAL		

4+00	CUT S.F.	FILL S.F.
PRELIMINARY	80.0	~
FINAL		

3+75	CUT S.F.	FILL S.F.
PRELIMINARY	78.50	~
FINAL		

3+50	CUT S.F.	FILL S.F.
PRELIMINARY	90.5	0.9
FINAL		

3+25	CUT S.F.	FILL S.F.
PRELIMINARY	63.77	~
FINAL		

CROSS SECTIONS

Scale 1 inch = 5' Hor.
2" Vert.

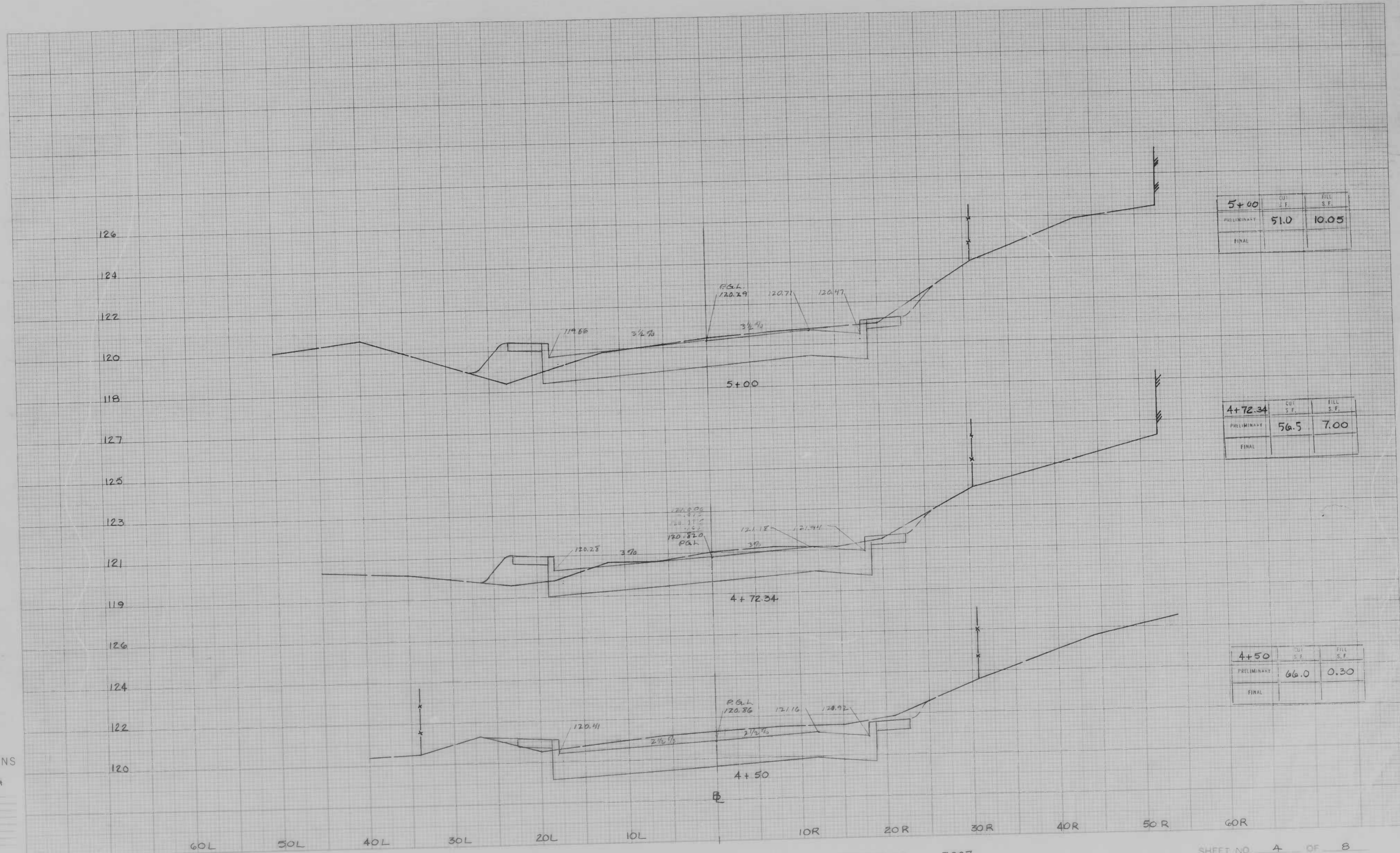
Original Planned by: _____ Date: _____
 Original Checked by: _____ Date: _____
 Transcribed by: _____ Date: _____
 Area by: _____ Date: _____
 Final Checked by: _____ Date: _____
 Final Drawn by: _____ Date: _____
 Area by: _____ Date: _____
 Area Checked by: _____ Date: _____

BOOK NO. L1177

PROJECT Nieman Avenue
 DESCRIPTION Nieman Avenue

CONTRACT NO. 3067

SHEET NO. 3 OF 8
 STATION 3+25 TO STATION 4+25



CROSS SECTIONS
 Scale 1 inch = 5 Hor. / 2 Vert.
 Original Planned by: _____ Date: _____
 Original Checked by: _____ Date: _____
 Yawards by: _____ Date: _____
 Area by: _____ Date: _____
 Profile Checked by: _____ Date: _____
 Area by: _____ Date: _____
 Area Checked by: _____ Date: _____

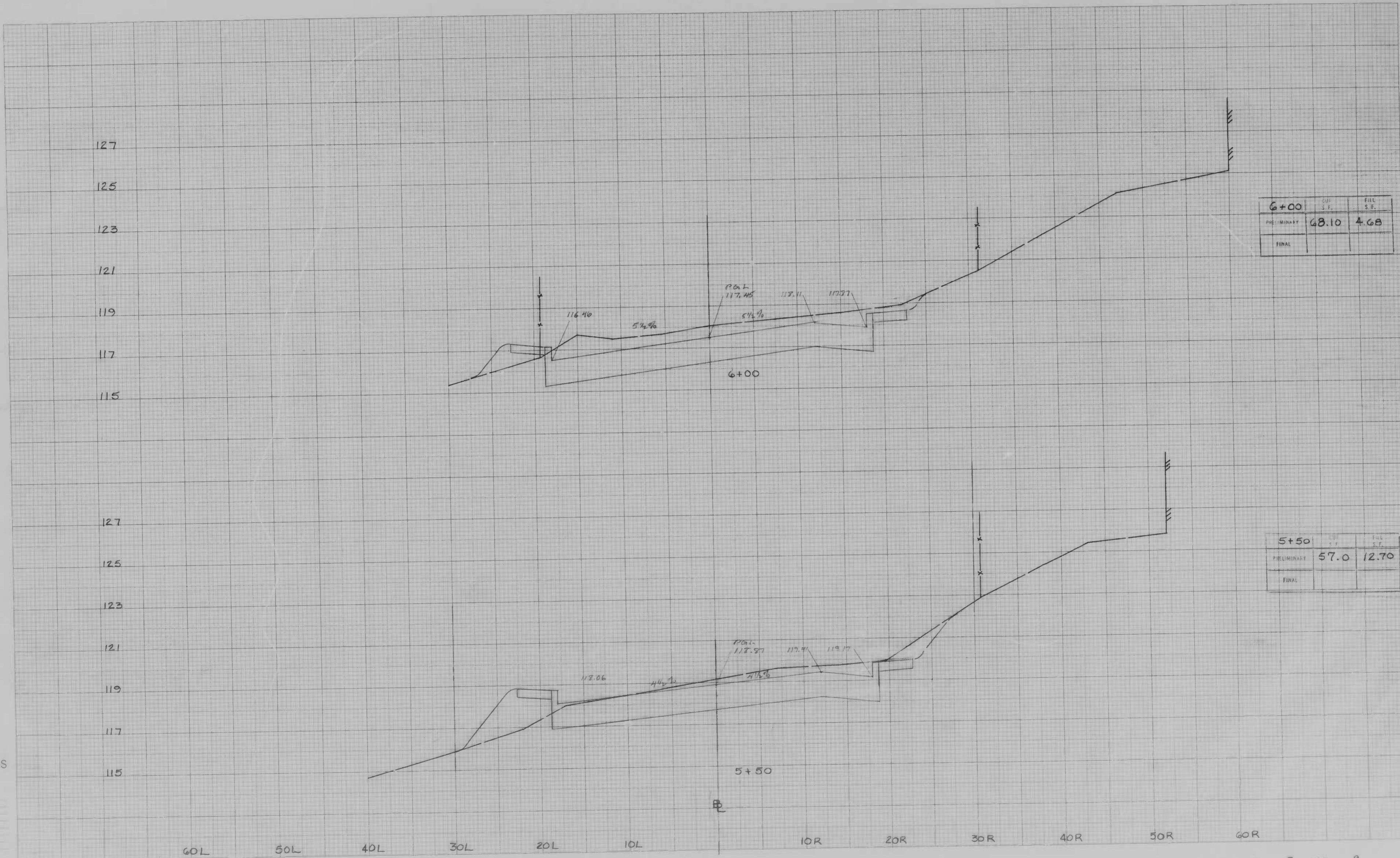
BOOK NO. L1177

PROJECT Nieman Avenue
 DESCRIPTION Nieman Avenue

CONTRACT NO. 3067

SHEET NO. 4 OF 8
 STATION 4+50 TO STATION 5+00

TP2
 12'-W
 8.0' Cov.



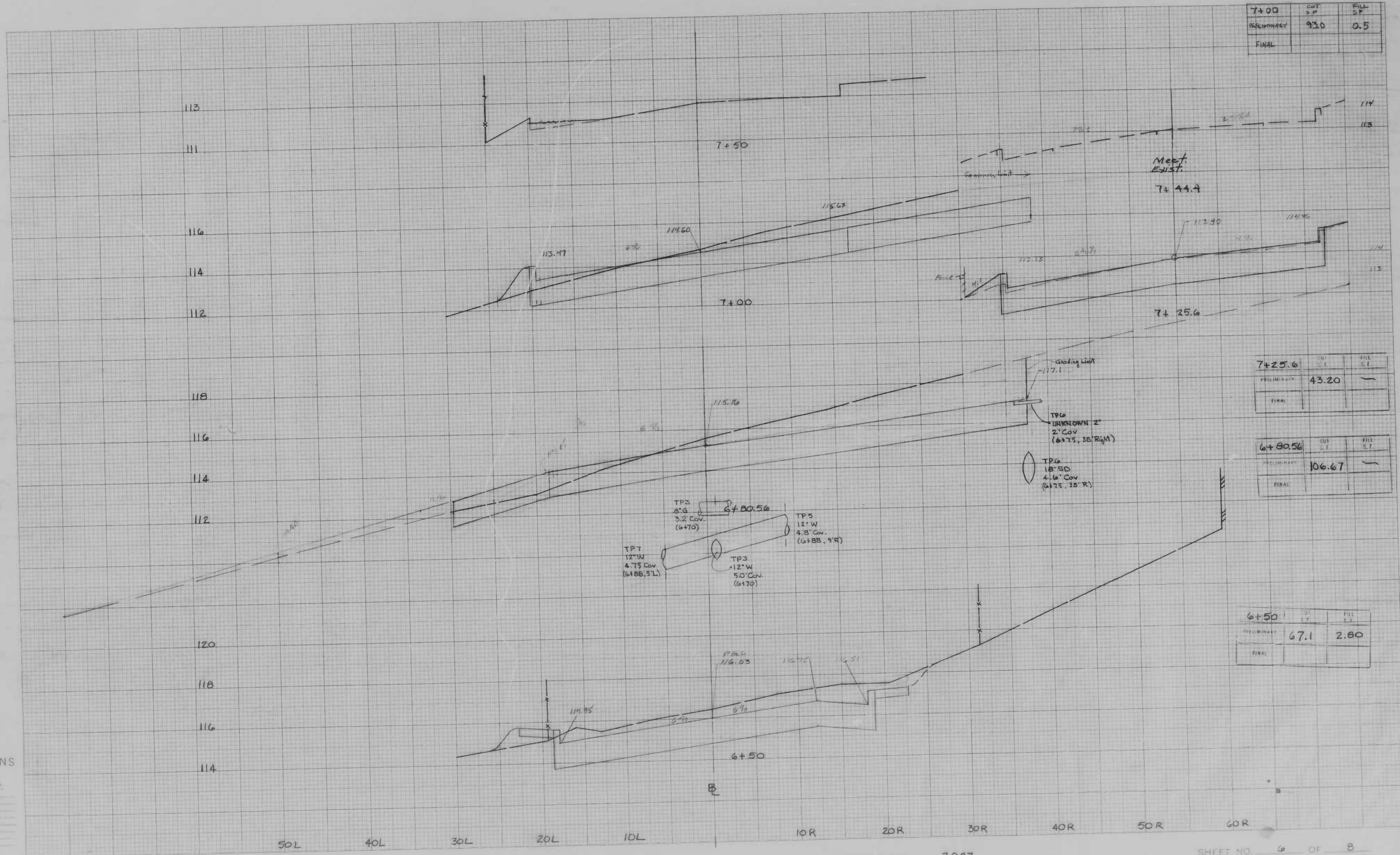
6+00	CU	FILL
PRELIMINARY	48.10	4.68
FINAL		

5+50	CU	FILL
PRELIMINARY	57.0	12.70
FINAL		

CROSS SECTIONS

Scale 1 inch = 5 Hor
 2 Vert

Original Plotted by _____ Date _____
 Original Checked by _____ Date _____
 Template by _____ Date _____
 Area by _____ Date _____
 Final Plotted by _____ Date _____
 Final Checked by _____ Date _____
 Area Checked by _____ Date _____



7+00	CUT S.F.	FILL S.F.
PRELIMINARY	93.0	0.5
FINAL		

7+25.6	CUT S.F.	FILL S.F.
PRELIMINARY	43.20	
FINAL		

6+80.56	CUT S.F.	FILL S.F.
PRELIMINARY	106.67	
FINAL		

6+50	CUT S.F.	FILL S.F.
PRELIMINARY	67.1	2.80
FINAL		

CROSS SECTIONS

Scale 1 inch = 5 Hor 2 Vert

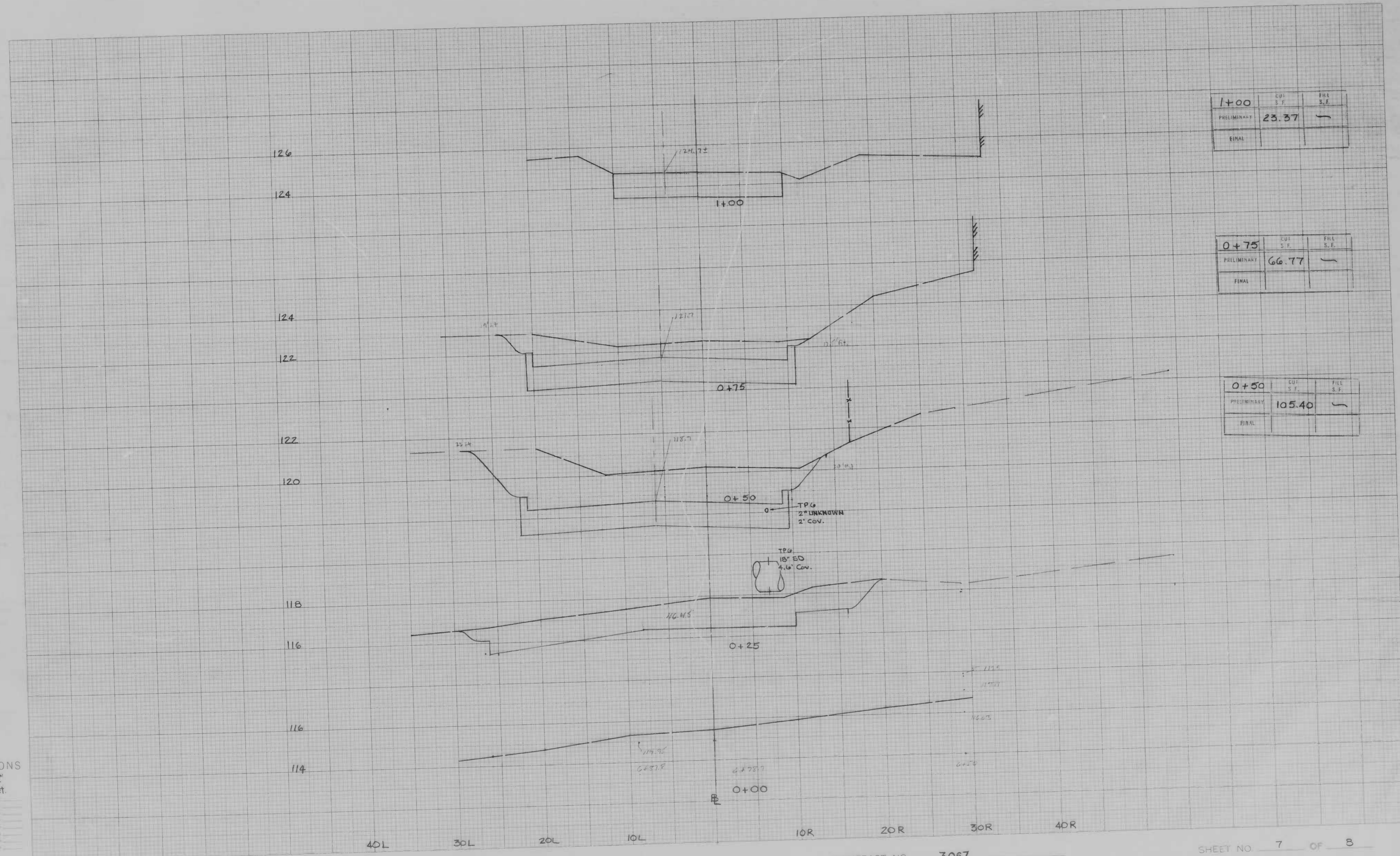
Original Planned by: _____ Date: _____
 Original Checked by: _____ Date: _____
 Temporary by: _____ Date: _____
 Revis. by: _____ Date: _____
 Final Planned by: _____ Date: _____
 Final Checked by: _____ Date: _____
 Area by: _____ Date: _____
 Area Checked by: _____ Date: _____

BOOK NO. L1177

PROJECT Nieman Avenue
 DESCRIPTION Nieman Avenue

CONTRACT NO. 3067

SHEET NO. 6 OF 8
 STATION 6+50 TO STATION 7+50



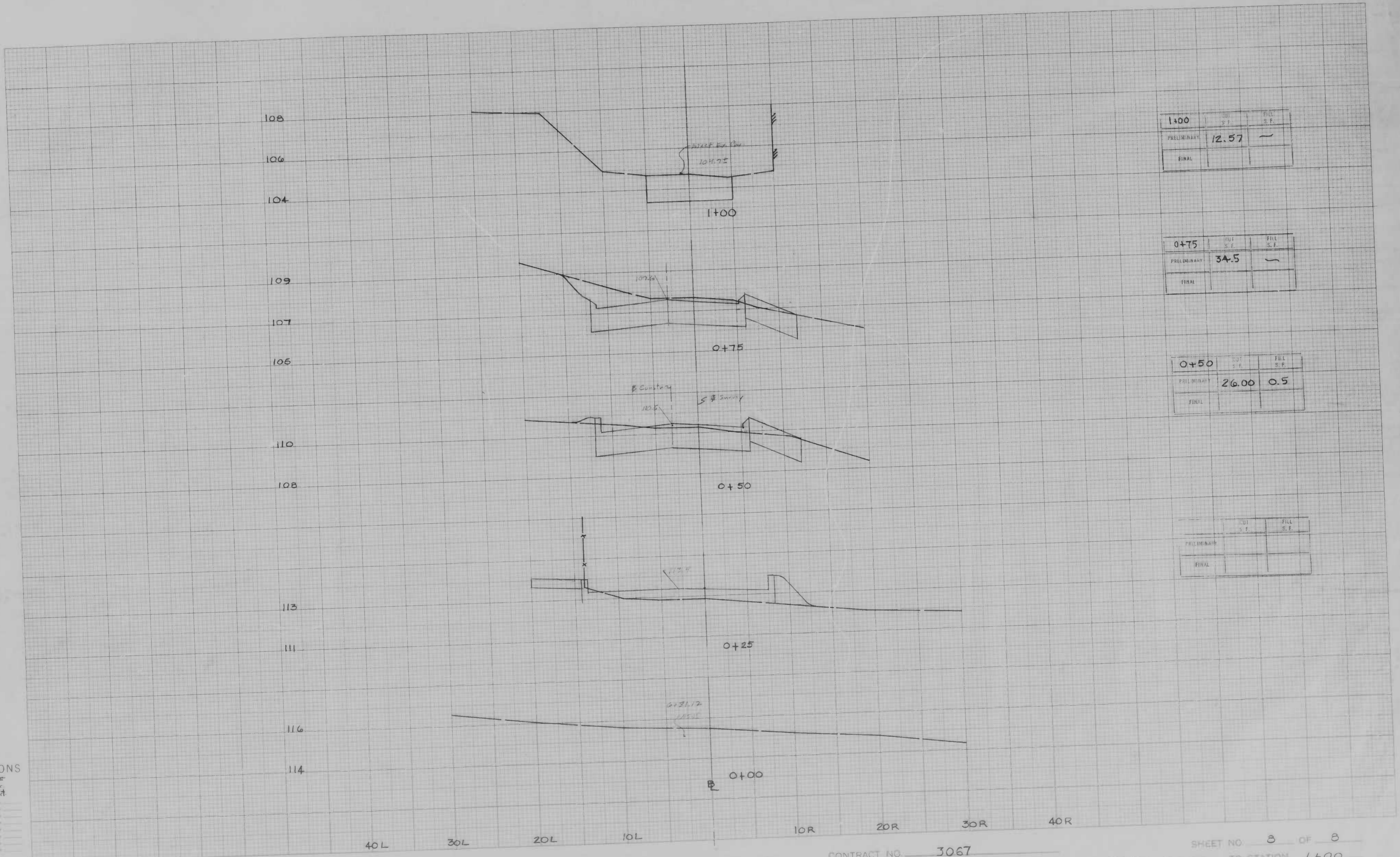
1+00	CUT S.F.	FILL S.F.
PRELIMINARY	23.37	—
FINAL		

0+75	CUT S.F.	FILL S.F.
PRELIMINARY	66.77	—
FINAL		

0+50	CUT S.F.	FILL S.F.
PRELIMINARY	105.40	—
FINAL		

CROSS SECTIONS
 Scale 1 inch = 5' Hor.
 2" Vert.

Original Marked by: _____ Date: _____
 Original Checked by: _____ Date: _____
 Transferred by: _____ Date: _____
 Area by: _____ Date: _____
 Layout Marked by: _____ Date: _____
 Layout Checked by: _____ Date: _____
 Area Checked by: _____ Date: _____



1+00	CUT S.F.	FILL S.F.
PRELIMINARY	12.57	—
FINAL		

0+75	CUT S.F.	FILL S.F.
PRELIMINARY	34.5	—
FINAL		

0+50	CUT S.F.	FILL S.F.
PRELIMINARY	26.00	0.5
FINAL		

	CUT S.F.	FILL S.F.
PRELIMINARY		
FINAL		

CROSS SECTIONS
 Scale 1 inch = 5' Hor
 2" Vert

Original Proposed by _____ Date _____
 Checked by _____ Date _____
 Estimated by _____ Date _____
 Area by _____ Date _____
 Placed by _____ Date _____
 Placed Checked by _____ Date _____
 Area Checked by _____ Date _____