FHWA REGION	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD.	IX 3057(2)	1.0	1.95 / 196

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
AND
STATE HIGHWAY ADMINISTRATION OF MARYLAND
INTERSTATE DIVISION FOR BALTIMORE CITY

GRADING, CURBING, UTILITY & STRUCTURE ADJUSTMENTS
- RECONSTRUCTION OF CENTRAL AVENUE -
ALICEANNA ST. BRIDGE, FLEET ST. BRIDGE & HARFORD RUN STORM DRAIN

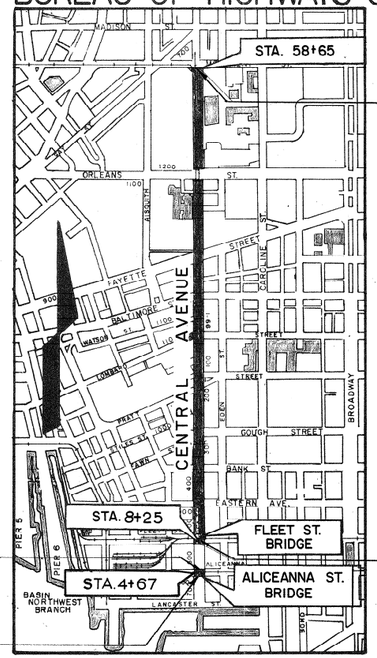
FEDERAL AID PROJECT NO. IX 3057 (2)
THE STATE HIGHWAY ADMINISTRATION PROJECT NO. B.C. 311-107-815
CITY OF BALTIMORE BUREAU OF HIGHWAYS CONTRACT NO. 3052

SOIL LEGEND

- A-3 SAND
- A-2 SAND & FINES
- A-2-4 SILTY SAND
- A-4-2 SANDY SILT
- A-2-7 CLAYEY SAND
- A-7-2 SANDY CLAY
- A-4 SILT
- A-4-7 CLAYEY SILT
- A-7-4 SILTY CLAY
- A-7 CLAY
- A-6 COLLOIDAL CLAY
- A-5 MICA, DIATOMS, DECOMPOSED ROCK
- A-8 SWAMP MUCK
- ROCK REFUSAL

PLAN LOCATION OF SOIL BORINGS

THE SYSTEM OF SOIL CLASSIFICATION SHALL BE IN ACCORDANCE WITH AASHO DESIGNATION M-145, AS AMENDED TO DATE, SHOWN IN "STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS AND METHODS OF SAMPLING AND TESTING, PART I."



LOCATION PLAN
SCALE: 1" = 750'

DESIGN SPEED =>50 MPH

TRAFFIC DATA		
YEAR	1985	2005
ADT	6300	10,000
DHV	600	1,000
DD	60 NB 60 SB	60 NB 60 SB
TRUCKS	20%	20%
DESIGN SPEED CENTRAL AVE.	>50 M.P.H.	
PROJECT LENGTH - 0.948 MILES		

FIELD BOOKS	
Book No.	Description
PJ-1	Location & Intersecting Street Cross-Sections
PJ-2	Bench Marks & Main Line Cross-Sections
PJ-3	Main Line Cross-Sections & Intersecting Street Cross-Sections
PJ-4	Intersecting Street Cross-Sections, Location at Bridges and Elevations on Utilities using Survey Plan

NOTE: Effective July 1, 1971, in accordance with the provisions of Chapter 526 of Acts of the 1970 General Assembly, wherever the title "State Roads Commission" and/or the term "Commission" is used, it shall be construed to be the "State Highway Administration."

NOTE: The design of this project has incorporated facilities for the elderly and handicapped in compliance with State and Federal legislation.

Right-of-way lines shown on these plans do not include easement. They are for assistance in interpreting the plans. These lines do not represent the official property acquisition lines. For official fee right-of-way and easement information, see the appropriate right-of-way plat or plats.

CHECKED BY:	INITIALS	DATE
BUREAU OF WATER AND WASTEWATER		
WATER ENGINEERING DIVISION	RJK	9/23/85
WASTEWATER ENGINEERING DIVISION	NAL per telecon	9/18/85
BUREAU OF HIGHWAYS		
HIGHWAY ENGINEERING DIVISION	MM	9.9.85
LIGHTING SECTION - HIGHWAY MAINT. DIV.	DPW	9/13/85
ENVIRONMENTAL SERVICES - CONDUIT	EDK	9/19/85
BUREAU OF CONSTRUCTION MANAGEMENT		
SURVEY AND RECORDS DIVISION		9/17/85
UTILITIES SECTION - I.D.B.C.		9-17-85
DEPARTMENT OF TRANSIT AND TRAFFIC	RAS	9/20/85
SEDIMENTATION & EROSION CONTROL		9/18/85

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS

APPROVAL RECOMMENDED
George A. Vardakis
HEAD, BUREAU OF HIGHWAYS

APPROVED
Thomas J. Huelster
DIRECTOR OF PUBLIC WORKS

PREPARED BY
PURDUM & JESCHKE
CONSULTING ENGINEERS
1029 N. CALVERT STREET
BALTIMORE, MARYLAND

STATE OF MARYLAND — GEORGE WENZEL, JR. — REGISTERED PROFESSIONAL ENGINEER

DATE

STATE HIGHWAY ADMINISTRATION OF MARYLAND

REVIEWED AND APPROVAL RECOMMENDED
M. Stewart Thomas
CHIEF, BUREAU OF DESIGN

APPROVAL RECOMMENDED
M. Stewart Thomas
CHIEF, INTERSTATE DIVISION FOR BALTIMORE CITY

APPROVED
Gordon E. Dailey
CHIEF ENGINEER

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR — DATE

INDEX OF SHEETS

FHWA REGION	STATE	FED AID PROJ. NO.	SHEET NO	TOTAL SHEETS
3	MD	IX 3057(2)	1.1	195/196

DIVISION ONE

NO.	DESCRIPTION
1.0	TITLE SHEET
1.1	INDEX OF SHEETS
1.2	SYMBOLS, ABBREVIATIONS, LEGENDS, AND GENERAL NOTES
1.3	TYPICAL SECTION OF IMPROVEMENT AND CONSTRUCTION DETAILS
1.4	TYPICAL SECTIONS OF IMPROVEMENT
1.5	TYPICAL SECTIONS OF IMPROVEMENT
1.6	TYPICAL SECTIONS OF IMPROVEMENT AND CONSTRUCTION DETAILS
1.7	CONSTRUCTION DETAILS
1.8	ROADWAY TRANSITION DETAILS
1.9	CONSTRUCTION DETAILS
1.91	SOIL EROSION AND SEDIMENT CONTROL PLAN
1.92	SOIL EROSION AND SEDIMENT CONTROL PLAN
1.93	SOIL EROSION AND SEDIMENT CONTROL PLAN
1.94	SOIL EROSION AND SEDIMENT CONTROL DETAILS
1.95	SOIL EROSION AND SEDIMENT CONTROL DETAILS

DIVISION TWO

NO.	DESCRIPTION
2.1	ROADWAY PLAN - ALICEANNA STREET BRIDGE AND STREET REPAIR
2.2	ROADWAY PLAN - STATION 7+73.86 TO STATION 13+00
2.3	ROADWAY PLAN - STATION 13+00 TO STATION 18+50
2.4	ROADWAY PLAN - STATION 18+50 TO STATION 23+50
2.5	ROADWAY PLAN - STATION 23+50 TO STATION 29+00
2.6	ROADWAY PLAN - STATION 29+00 TO STATION 34+75
2.7	ROADWAY PLAN - STATION 34+75 TO STATION 39+75
2.8	ROADWAY PLAN - STATION 39+75 TO STATION 44+75
2.9	ROADWAY PLAN - STATION 44+75 TO STATION 50+00
2.10	ROADWAY PLAN - STATION 50+00 TO STATION 55+00
2.11	ROADWAY PLAN - STATION 55+00 TO STATION 58+65
2.12	PAVEMENT JOINT LAYOUT PLAN - STATION 7+73.86 TO STATION 13+00
2.13	PAVEMENT JOINT LAYOUT PLAN - STATION 13+00 TO STATION 18+50
2.14	PAVEMENT JOINT LAYOUT PLAN - STATION 18+50 TO STATION 23+50
2.15	PAVEMENT JOINT LAYOUT PLAN - STATION 23+50 TO STATION 29+00
2.16	PAVEMENT JOINT LAYOUT PLAN - STATION 29+00 TO STATION 34+75
2.17	PAVEMENT JOINT LAYOUT PLAN - STATION 34+75 TO STATION 39+75
2.18	PAVEMENT JOINT LAYOUT PLAN - STATION 39+75 TO STATION 44+75
2.19	PAVEMENT JOINT LAYOUT PLAN - STATION 44+75 TO STATION 50+00
2191	PAVEMENT JOINT LAYOUT PLAN - STATION 50+00 TO STATION 55+00
2192	PAVEMENT JOINT LAYOUT PLAN - STATION 55+00 TO STATION 58+65

DIVISION THREE

NO.	DESCRIPTION
3.1	ROADWAY PROFILES - STATION 7+75.45 TO STATION 13+00
3.2	ROADWAY PROFILES - STATION 13+00 TO STATION 23+50
3.3	ROADWAY PROFILES - STATION 23+50 TO STATION 34+75
3.4	ROADWAY PROFILES - STATION 34+75 TO STATION 44+75
3.5	ROADWAY PROFILES - STATION 44+75 TO STATION 55+00
3.6	ROADWAY PROFILES - STATION 55+00 TO STATION 58+65

DIVISION FOUR

NO.	DESCRIPTION
4.1	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.2	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.3	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.4	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.5	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.6	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.7	CURB FLOW LINE PROFILES - INTERSECTION STREETS
4.8	CURB FLOW LINE PROFILES - INTERSECTION STREETS

DIVISION FIVE

NO.	DESCRIPTION
5083	WATER SHUTOFF DIAGRAM
5084	CONDUIT DETAILS
5085	CONDUIT DETAILS
5086	MANHOLE DETAILS
5087	CONDUIT FORMATION DETAILS
5088	CONDUIT FORMATION DETAILS
5089	MANHOLE FOLDOUTS
5090	MANHOLE FOLDOUTS
5091	MANHOLE FOLDOUTS
5092	MANHOLE FOLDOUTS
5093	MANHOLE FOLDOUTS
5094	MANHOLE FOLDOUTS
5095	MANHOLE FOLDOUTS
5096	MANHOLE FOLDOUTS
5097	MANHOLE FOLDOUTS
5098	PROPOSED LIGHTING AND TRAFFIC POLE LEGEND AND DETAILS
5099	POLE FOUNDATIONS AND TREE PLANTING DETAILS
5.1	ALICEANNA STREET BRIDGE- ELECTRICAL CONDUIT
5.2	UTILITY, PLANTING AND LIGHTING PLAN - STATION 7+73.86 TO STATION 13+00
5.3	UTILITY, PLANTING AND LIGHTING PLAN - STATION 13+00 TO STATION 18+50
5.4	UTILITY, PLANTING AND LIGHTING PLAN - STATION 18+50 TO STATION 23+50
5.5	UTILITY, PLANTING AND LIGHTING PLAN - STATION 23+50 TO STATION 29+00
5.6	UTILITY, PLANTING AND LIGHTING PLAN - STATION 29+00 TO STATION 34+75
5.7	UTILITY, PLANTING AND LIGHTING PLAN - STATION 34+75 TO STATION 39+75
5.8	UTILITY, PLANTING AND LIGHTING PLAN - STATION 39+75 TO STATION 44+75
5.9	UTILITY, PLANTING AND LIGHTING PLAN - STATION 44+75 TO STATION 50+00
5.10	UTILITY, PLANTING AND LIGHTING PLAN - STATION 50+00 TO STATION 55+00
5.11	UTILITY, PLANTING AND LIGHTING PLAN - STATION 55+00 TO STATION 58+65
5.12	WATER MAIN RELOCATIONS - PLAN & PROFILE

DIVISION SIX

NO.	DESCRIPTION
6.1	UTILITY PROFILES
6.2	UTILITY PROFILES
6.3	UTILITY PROFILES
6.4	UTILITY PROFILES
6.5	UTILITY PROFILES
6.6	UTILITY PROFILES
6.7	UTILITY PROFILES
6.8	UTILITY PROFILES
6.9	UTILITY PROFILES
6.10	UTILITY PROFILES
6.11	UTILITY PROFILES
6.12	UTILITY PROFILES

DIVISION SEVEN

NO.	DESCRIPTION
7.2	STORM DRAIN PLAN - STATION 7+73.86 TO STATION 13+00
7.3	STORM DRAIN PLAN - STATION 13+00 TO STATION 18+50
7.4	STORM DRAIN PLAN - STATION 18+50 TO STATION 23+50
7.5	STORM DRAIN PLAN - STATION 23+50 TO STATION 29+00
7.6	STORM DRAIN PLAN - STATION 29+00 TO STATION 34+75
7.7	STORM DRAIN PLAN - STATION 34+75 TO STATION 39+75
7.8	STORM DRAIN PLAN - STATION 39+75 TO STATION 44+75
7.9	STORM DRAIN PLAN - STATION 44+75 TO STATION 50+00
7.10	STORM DRAIN PLAN - STATION 50+00 TO STATION 55+00
7.11	STORM DRAIN PLAN - STATION 55+00 TO STATION 58+65

DIVISION EIGHT

NO.	DESCRIPTION
8.1	INLET CONNECTION PROFILES
8.2	INLET CONNECTION PROFILES
8.3	INLET CONNECTION PROFILES
8.4	INLET CONNECTION PROFILES
8.5	INLET CONNECTION PROFILES
8.6	INLET CONNECTION PROFILES
8.7	INLET CONNECTION PROFILES

DIVISION NINE

NO.	DESCRIPTION
9.1	TRAFFIC CONTROL PLAN - TYPICAL MAINTENANCE OF TRAFFIC SEQUENCE
9.2.1	TRAFFIC CONTROL PLAN - TABLE OF PRECEDENTS
9.2.2	TRAFFIC CONTROL PLAN - TABLE OF PRECEDENTS (CONT'D)
9.2.3	TRAFFIC CONTROL PLAN - TABLE OF PRECEDENTS (CONT'D)
9.3	TRAFFIC CONTROL PLAN - STATION 3+00 TO STATION 31+00 PHASE I
9.4	TRAFFIC CONTROL PLAN - STATION 3+00 TO STATION 31+00 PHASE II
9.5	TRAFFIC CONTROL PLAN - STATION 3+00 TO STATION 31+00 PHASE III
9.6	TRAFFIC CONTROL PLAN - STATION 3+00 TO STATION 31+00 PHASE IV
9.7	TRAFFIC CONTROL PLAN - STATION 31+00 TO STATION 59+00 PHASE I
9.8	TRAFFIC CONTROL PLAN - STATION 31+00 TO STATION 59+00 PHASE II
9.9	TRAFFIC CONTROL PLAN - STATION 31+00 TO STATION 59+00 PHASE III
9.10	TRAFFIC CONTROL PLAN - STATION 31+00 TO STATION 59+00 PHASE IV
9.10.1	TRAFFIC CONTROL PLAN - STATION 31+00 TO STATION 59+00 PHASE V
9.11	FINAL SIGNING PLAN - STATION 3+00 TO STATION 31+00 (MATCH LINE)
9.12	FINAL SIGNING PLAN - STATION 31+00 TO STATION 59+00 (MONUMENT ST.)
9.13	TYPICAL TRAFFIC CONTROL FOR UTILITY CONSTRUCTION
9.14	TRAFFIC CONTROL DETAILS

DIVISION TEN

NO.	DESCRIPTION
10.1	PHASE I, IIA CONSTRUCTION - FLEET STREET AND EASTERN AVENUE
10.2	PHASE II CONSTRUCTION - FLEET STREET AND EASTERN AVENUE
10.3	PHASE III CONSTRUCTION - FLEET STREET AND EASTERN AVENUE
10.4	PHASE III CONSTRUCTION - FLEET STREET AND EASTERN AVENUE
10.5	PHASE IV CONSTRUCTION - FLEET STREET AND EASTERN AVENUE
10.6	PHASE IV CONSTRUCTION - FLEET STREET AND EASTERN AVENUE
10.7	PHASE I CONSTRUCTION - PRATT STREET
10.8	PHASE IIA CONSTRUCTION - PRATT STREET
10.9	PHASE IIB CONSTRUCTION - PRATT STREET
10.10	PHASE III CONSTRUCTION - PRATT STREET
10.11	PHASE III CONSTRUCTION - PRATT STREET
10.12	PHASE IV CONSTRUCTION - PRATT STREET
10.13	PHASE IV CONSTRUCTION - PRATT STREET
10.14	PHASE I CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.15	PHASE II CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.16	PHASE II CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.17	PHASE III CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.18	PHASE III CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.19	PHASE IV CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.20	PHASE IV CONSTRUCTION - LOMBARD STREET AND BALTIMORE STREET
10.21	PHASE I CONSTRUCTION - FAYETTE STREET
10.22	PHASE III CONSTRUCTION - FAYETTE STREET
10.23	PHASE III CONSTRUCTION - FAYETTE STREET
10.24	PHASE III CONSTRUCTION - FAYETTE STREET
10.25	PHASE IV CONSTRUCTION - FAYETTE STREET
10.26	PHASE IV CONSTRUCTION - FAYETTE STREET
10.27	PHASE IV CONSTRUCTION - FAYETTE STREET

DIVISION ELEVEN

NO.	DESCRIPTION
11.1	ALICEANNA STREET BRIDGE - GENERAL PLAN AND ELEVATION
11.2	ALICEANNA STREET BRIDGE - EXISTING PLAN AND REMOVALS
11.3	ALICEANNA STREET BRIDGE - FRAMING PLAN AND TYPICAL SECTION
11.4	ALICEANNA STREET BRIDGE - SUPERSTRUCTURE DETAILS
11.5	ALICEANNA STREET BRIDGE - ABUTMENTS

DIVISION TWELVE

NO.	DESCRIPTION
12.1	FLEET STREET BRIDGE - GENERAL PLAN AND ELEVATION
12.2	FLEET STREET BRIDGE - EXISTING PLAN AND REMOVALS
12.3	FLEET STREET BRIDGE - FRAMING PLAN AND TYPICAL SECTION
12.4	FLEET STREET BRIDGE - SUPERSTRUCTURE DETAILS
12.5	FLEET STREET BRIDGE - ABUTMENTS

DIVISION THIRTEEN

NO.	DESCRIPTION
13.1	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 11+75 TO STATION 13+00
13.2	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 13+00 TO STATION 18+50
13.3	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 18+50 TO STATION 23+50
13.4	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 23+50 TO STATION 29+00
13.5	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 29+00 TO STATION 34+75
13.6	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 34+75 TO STATION 39+75
13.7	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 39+75 TO STATION 44+75
13.8	HARFORD RUN STORM DRAIN - GENERAL PLAN STATION 44+75 TO STATION 46+56
13.9	HARFORD RUN STORM DRAIN - PROFILE STATION 11+75 TO STATION 18+30
13.10	HARFORD RUN STORM DRAIN - PROFILE STATION 18+30 TO STATION 23+50
13.11	HARFORD RUN STORM DRAIN - PROFILE STATION 23+50 TO STATION 29+00
13.12	HARFORD RUN STORM DRAIN - PROFILE STATION 29+00 TO STATION 34+50
13.13	HARFORD RUN STORM DRAIN - PROFILE STATION 34+50 TO STATION 40+00
13.14	HARFORD RUN STORM DRAIN - PROFILE STATION 40+00 TO STATION 46+56
13.15	HARFORD RUN STORM DRAIN - OPENINGS AND MANHOLE DETAILS
13.16	HARFORD RUN STORM DRAIN - TYPICAL SECTIONS AND EXPANSION AND CONTRACTION JOINTS
13.17	HARFORD RUN STORM DRAIN - GAS LINE CROSSINGS
13.18	HARFORD RUN STORM DRAIN - MECHANICAL ELECTRICAL DUCT CROSSINGS
13.19	HARFORD RUN STORM DRAIN - SEWER AND WATER CROSSINGS
13.20	HARFORD RUN STORM DRAIN - CROSS SECTIONS STATION 31+43.60 TO STATION 37+83.10
13.21	HARFORD RUN STORM DRAIN - CROSS SECTIONS STATION 37+85.30 TO STATION 43+00
13.22	HARFORD RUN STORM DRAIN - CROSS SECTIONS STATION 44+00 TO STATION 46+55.50
13.23	HARFORD RUN STORM DRAIN - DETAILS FOR LINER PLATE
13.24	HARFORD RUN STORM DRAIN - INCOMING CULVERT STATION 41+67
13.25	HARFORD RUN STORM DRAIN - REMOVAL & TEMPORARY SHORING

DIVISION FOURTEEN

NO.	DESCRIPTION
14.1	SUMMARY OF QUANTITIES
14.2	SUMMARY OF QUANTITIES

DIVISION FIFTEEN

NO.	DESCRIPTION
15.1	HARFORD RUN STORM DRAIN - BORING LOGS
15.2	HARFORD RUN STORM DRAIN - BORING LOGS
15.3	HARFORD RUN STORM DRAIN - BORING LOGS
15.4	HARFORD RUN STORM DRAIN - BORING LOGS
15.5	HARFORD RUN STORM DRAIN - BORING LOGS
15.6	CENTRAL AVENUE TEST PIT DATA
15.7	CENTRAL AVENUE TEST PIT DATA

REVISIONS

CONSULTANT

Purdum & Jeschke
CIVIL Engineers
1029 N. Calvert Street
Baltimore Md. 21202

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
&
STATE HIGHWAY ADMINISTRATION OF MARYLAND
INTERSTATE DIVISION FOR BALTIMORE CITY

RECONSTRUCTION OF CENTRAL AVENUE

INDEX OF SHEETS

SCALE: No Scale DATE: 12/23/85

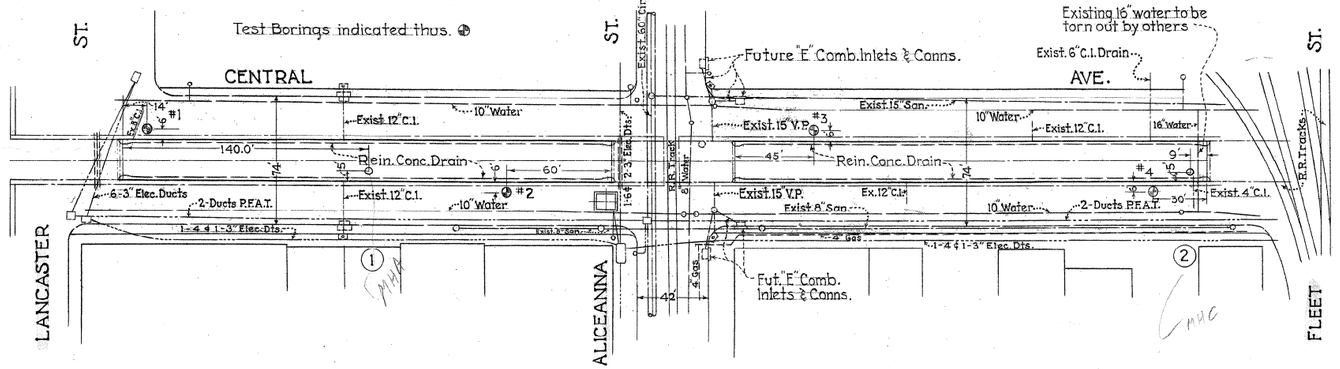
DRAWN BY: DES. BY:
TRACED BY: CHK. BY:
F.A.P. NO. IX 3057(2)
S.H.A. NO. BC 311-107-815
BALTO. CITY NO. 3052

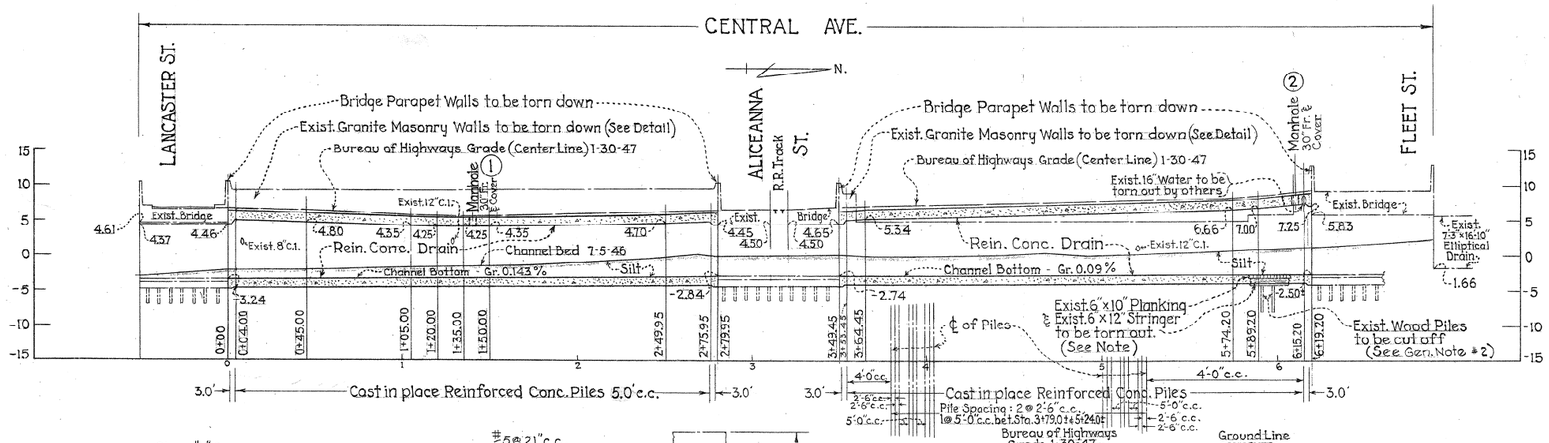
SHEET NO. 1.1 OF 195/196

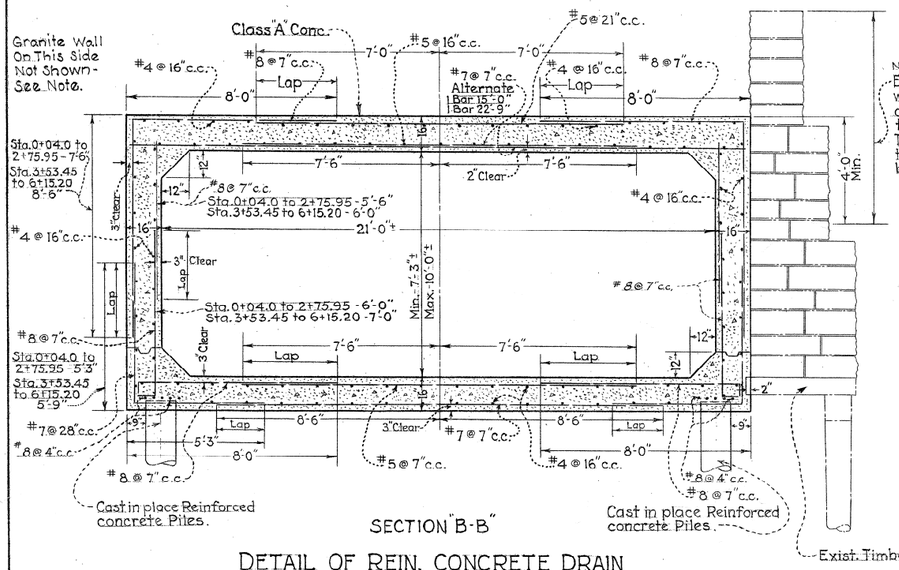
OKNJC 4-10-59
O.K.-J.F.S. 4-10-59

NOTE:
Tear out existing Retaining Wall to elev. of existing inlet connections and pick up connections in new drain with 18" R.C.C.P.

TRAFFIC NOTE:
MAINTAIN ONE 12-FT. LANE FOR TRAFFIC IN EACH DIRECTION.





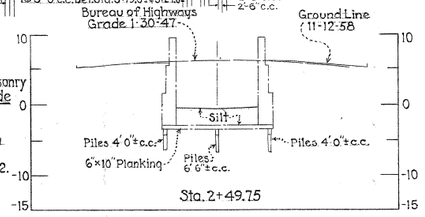


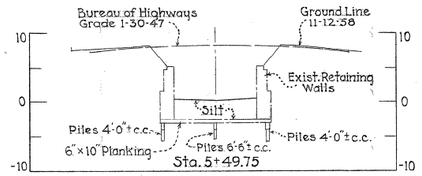
SECTION "B-B"

DETAIL OF REIN. CONCRETE DRAIN

Scale: 3/8" - 1'-0"

NOTE:
Exist. Granite Masonry walls on each side of drain to be torn down. To be included in the Lump Sum bid for Item No 2.





CROSS SECTIONS OF EXISTING CHANNEL
Scale: Hor. 1"=20'
Vert. 1"=10'

BORING No. 1

		WL (24)
GROUND SURFACE EL. 6.36		0.0
CINDER & SAND FILL	2 / 3	6.0
SILT, CINDER & SAND FILL	3 / 2	10.0
SILT & SAND	1	13.0
SILT & COARSE SAND	1	18.0
ORGANIC MATTER & SAND	3	21.0
BROWN COARSE SAND MEDIUM GRAVEL	39	28.0
FINE WHITE SANDY CLAY	54	33.0
RED & WHITE FINE SANDY CLAY	76	37.0
FINE BROWN SAND	274	40.0
FINE WHITE SANDY CLAY TRACES OF SMALL GRAVEL	474	45.0

WL = 5'2" IN 1 HOUR

BORING No. 2

		WL (24)
GROUND SURFACE EL. 5.96		0.0
CINDERS, ROCK FRAGMENTS & CONCRETE FILL	14	3.0
SAND, CINDER & CLAY FILL	2	6.0
BRICK, CINDER & CLAY FILL	3	9.0
SAND & CINDER FILL	4	12.0
SAND & SILT	4	17.0
ORGANIC MATTER	2	20.0
BROWN COARSE SAND MEDIUM GRAVEL CLAY	41	27.0
FINE WHITE SANDY CLAY	32	31.0
COARSE WHITE SAND GRAVEL & QUARTZ	265	36.0
COARSE WHITE & BROWN SAND	125	42.0
SANDY DISINTEGRATED ROCK	371 / 350/6	50.0

WL = 5'8" IN 1 HOUR

BORING No. 3

		WL (24)
GROUND SURFACE EL. 6.61		0.0
CONCRETE & CLAY FILL	17	3.0
CINDERS & CLAY FILL	16	7.0
A	11 / 6	9.0
SILT & FINE SAND	4	18.0
ORGANIC MATTER	5	20.0
COARSE BROWN SAND & GRAVEL	47 / 22	31.0
FINE WHITE SANDY CLAY	234	35.0
FINE WHITE SANDY CLAY	114	42.0
BROWN & WHITE SANDY CLAY	56 / 134	52.0
B		56.0
QUARTZ CLAY & DISINTEGRATED ROCK	371/6 / 392/6	60.0
DRILLED WITH CARBIDE INSERT BIT 60' TO 65' 2" RECOVERY 65' TO 70' 10" RECOVERY		70.0

A CLAY, CINDERS & BRICK FILL.
B BROWN COARSE SAND, QUARTZ & CLAY
WL = 5'4" IN 1 HOUR

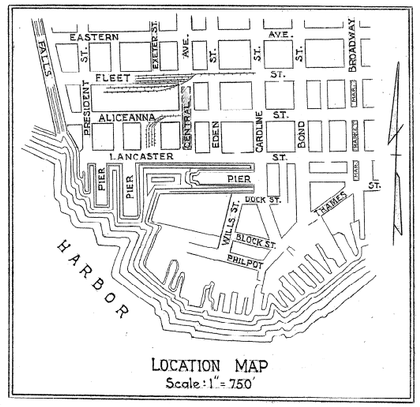
BORING No. 4

		WL (24)
GROUND SURFACE EL. 8.40		0.0
CINDER, SAND & CONCRETE FILL	3	3.0
SAND & CINDER FILL	2 / 4 / 5	11.0
SAND & SILT	7	17.0
ORGANIC MATTER	6	21.0
BROWN COARSE SAND MEDIUM GRAVEL & CLAY	89 / 176	31.0
COARSE WHITE SAND	305/6	36.0
COARSE WHITE SAND GRAVEL & QUARTZ	81	42.0
WHITE SANDY CLAY	276	45.0
SANDY DISINTEGRATED Rock	314	50.0

WL = 5'5" IN 1 HOUR

Scale: Vert. 1" = 8'-0"

Classifications are made by visual inspection.
Water levels (WL). Figure indicates time of reading (hours) after completion of boring.
Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe one foot, using 140 lb. weight falling 30 inches.



LOCATION MAP
Scale: 1" = 750'

GENERAL NOTES:

1. Where piles are to be driven, 24 inch openings shall be cut in the existing timber platform.
2. The existing timber piles in the center of the channel shall be cut down to an elevation which is at least 3 inches below the elevation of the outside bottom of the new drain. Cost shall be included in unit price bid for Item No. 1.
3. No more of the existing timber platform shall be removed at any one time than the length necessary to permit the construction which will immediately follow such removal.
4. Special care shall be exercised within 25 ft. of the existing bridge so as not to affect the stability of the existing channel walls under these bridges.
5. Silt shall be removed from bottom of existing channel under bridges at Lancaster St. and Aliceanna St. Cost shall be included in unit price bid for Item No 1.

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.

REVIEWED BY OFFICE ENG. John H. Pomeroy SENIOR CIVIL ENGINEER
REVIEWED BY DIV. CONTRACT CONST. A. T. Bruckheim GEN. SUPT. OF SEWERS

SERIAL NUMBERS OF MANHOLES SHOWN: (1)
SURVEY BOOK M - 24
B. M. NO. 6448 ELEV. 6.26
RECORD PLATS 41-M & 41-K
DRAINAGE DISTRICT 21-B
FILE NO. OF DRAWINGS IN CONTRACT
B.S.80-37930
B.S.80-37931

SEE SPEC. BOOK FOR STD. DETAILS
GRADES ESTABLISHED.
James L. Hunt ENGINEER OF SURVEYS
EXAMINED BY:-
PRINCIPAL ASSOCIATE ENGINEER
SENIOR CIVIL ENGINEER
ASST. BUREAU ENGINEER

RELEASED BY R. OF W. DIVISION 4-15-59 C.W.O. 6466

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF SEWERS
STORM WATER CONTRACT NO. 356
LOCATION: CENTRAL AVE. FROM FLEET ST. TO LANCASTER ST.
SCALES: HOR. 1" = 40' & VERT. 1" = 10' OR AS SHOWN ON DRAWING — DATE April 15, 1959
SHEETS IN SET 2 SHEET NO. 1
John J. Hunt SEWERAGE ENGINEER
DIRECTOR OF PUBLIC WORKS

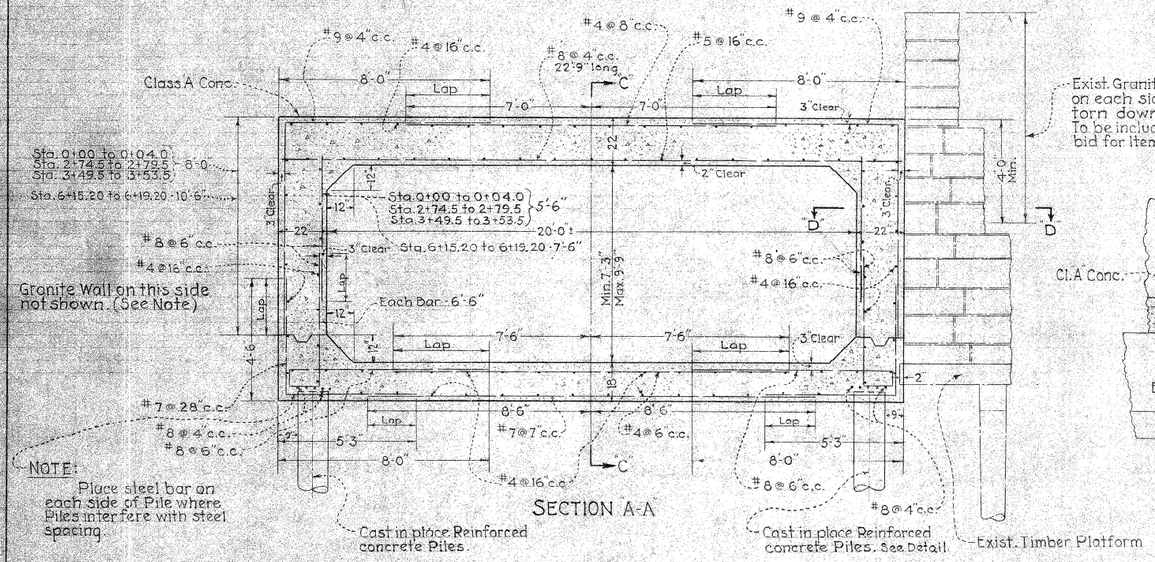
EST. BOOK E-
DESIGN BY E.L.R.
TRACED BY J.J. Foggio
CHECKED BY E.L.R.
REVISED 4/16/59 Pile Spacing, Steel added in top slab.

BELL TELEPHONE SYSTEM
UNDERGROUND CABLES IN THIS AREA
BEFORE STARTING WORK
Call Collect At Any Time
LE 9-9900 EXTENSION 649
For Telephone Company Representative

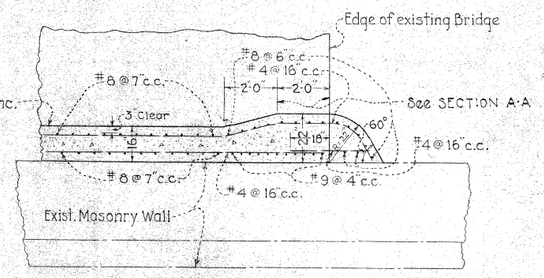
CONTRACTOR - Please notify Baltimore Gas & Electric Co. LE. 9-8000, Ext. 691 at least three days before starting work shown on this drawing.

B.S.80-37930

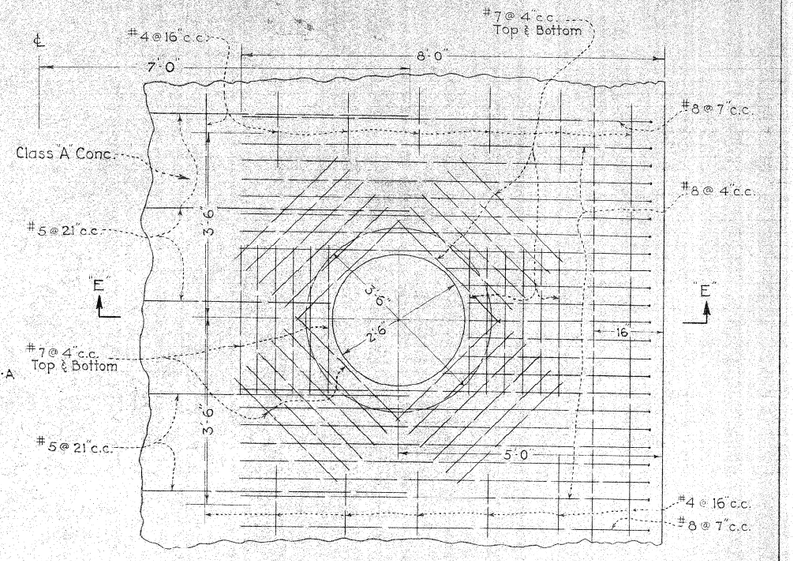
OK w.r.c. 4-10-59
O.K. R.P.S. 4-10-59



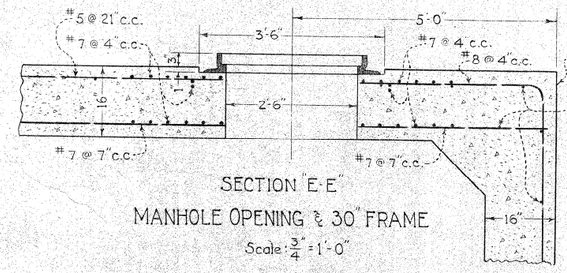
SECTION A-A



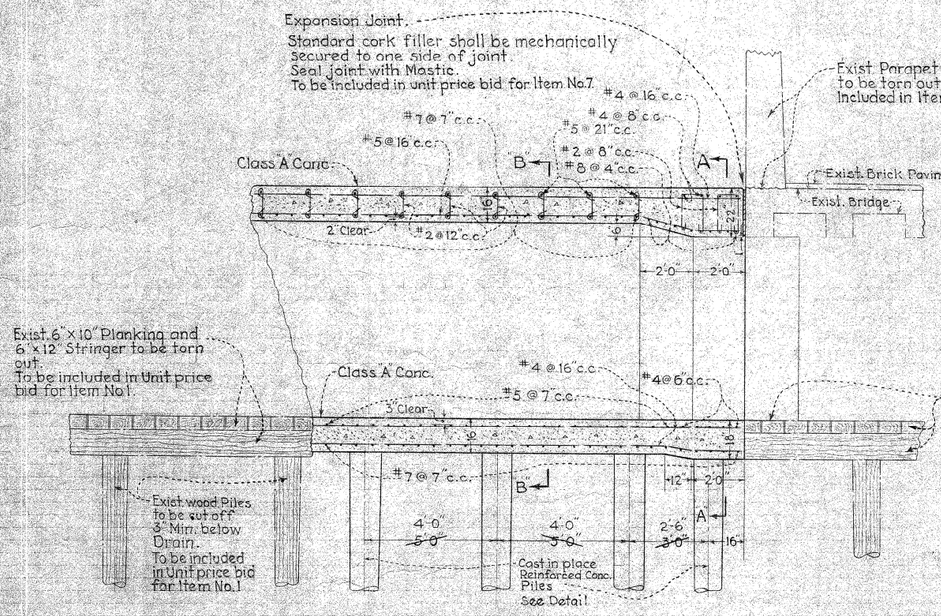
SECTION "D-D"
CONNECTING WITH EXIST. BRIDGES
(BOTH SIDES SIMILAR)
Scale: $\frac{3}{8}$"=1'-0"



PLAN



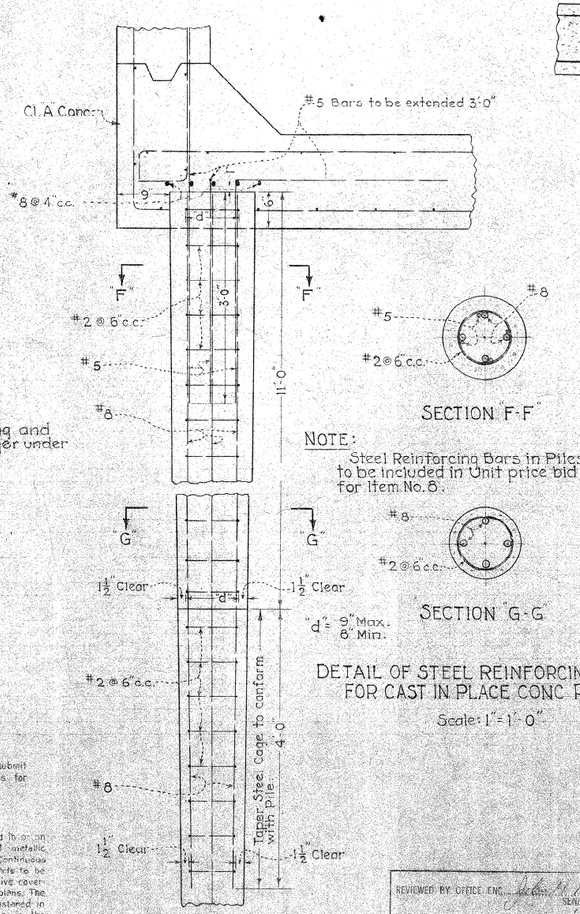
SECTION "E-E"
MANHOLE OPENING & 30" FRAME
Scale: $\frac{3}{4}$"=1'-0"



SECTION "C-C"
DETAIL OF REIN. CONCRETE DRAIN
Scale: $\frac{3}{8}$"=1'-0"

NOTE:
Contractor will be required to submit Steel Fabricator's detailed drawings for Office approval.

NOTE:
Reinforcing bars shall be supported by or on the formwork by a manufactured metallic bar support of the "Bolster" or Continuous Chair" type. The height of support to be such as to provide the clear protective covering of concrete as shown on the plans. The reinforcing bars to be securely fastened in place and to occupy the position in the concrete as shown on the plans.



SECTION "F-F"

NOTE:
Steel Reinforcing Bars in Piles to be included in Unit price bid for Item No.8.

SECTION "G-G"

DETAIL OF STEEL REINFORCING CAGE FOR CAST IN PLACE CONC PILE
Scale: 1"=1'-0"

SERIAL NUMBERS OF MANHOLES SHOWN: (1)
SURVEY BOOK M- 21
B.M. NO. 6146 ELEV. 6.26
RECORD PLATS 41 M 1 41 K
DRAINAGE DISTRICT 21 B
FILE NO. OF DRAWINGS IN CONTRACT
B.S.80 37930
B.S.80 37931
SEE SPEC. BOOK FOR STD. DETAILS
GRADES ESTABLISHED.
James E. Hunt
ENGINEER OF SURVEYS
EXAMINED BY:-
SENIOR CIVIL ENGINEER

REVIEWED BY OFFICE ENG. John J. Hunt
SENIOR CIVIL ENGINEER
REVIEWED BY DIV. CONTRACT CONST. H. Peterson
CHIEF INSP. OF SEWERS

RELEASED BY B. OF W. DIVISION 4-15-59 O.W.O. 6466

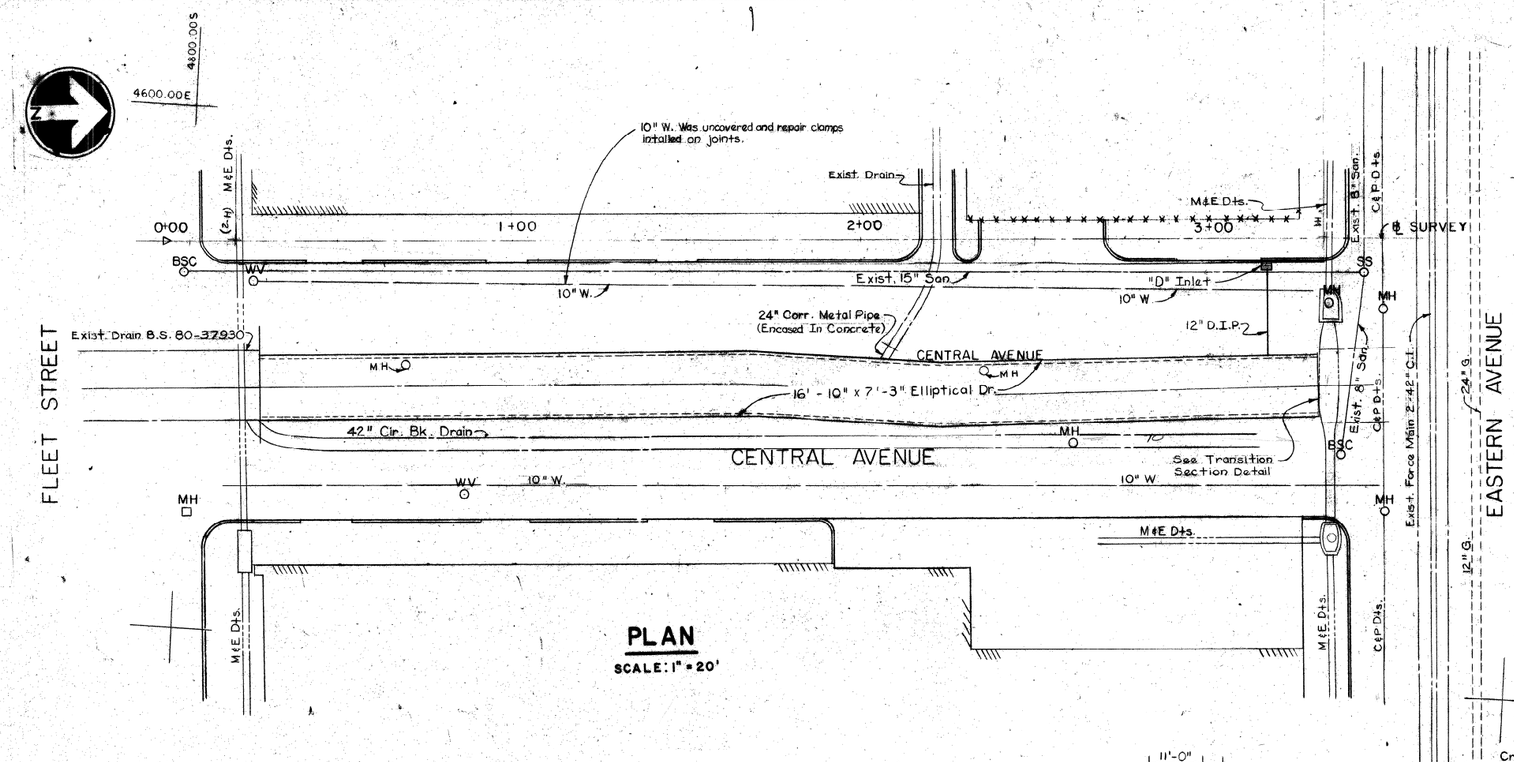
CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF SEWERS
STORM WATER CONTRACT NO. 388
LOCATION CENTRAL AVE. FROM FLEET ST. TO LANCASTER ST.
K/M-41 B
SCALES: AS NOTED 1" = 10' DATE April 15, 1959
SHEETS IN SET 2 SHEET NO. 2
Bernard F. Donnelly
PRINCIPAL ASSOCIATE ENGINEER
John J. Hunt
SEWERAGE ENGINEER
C. E. Kelly
ASST. BUREAU ENGINEER
Leo J. Cantin
DIRECTOR OF PUBLIC WORKS

EST. BOOK E-
DESIGN BY E.E.H.
TRACED BY J.J. SCHMID
CHECKED BY E.E.H.
REVISED 6/17/59 Pile Spacing, Steel added in top slab

B.S.80-37931

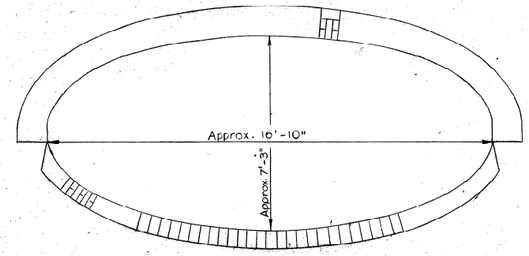
FILE REF. W.W.D. 80-44637

REVISIONS			
NO.	DESCRIPTION	DATE	BY

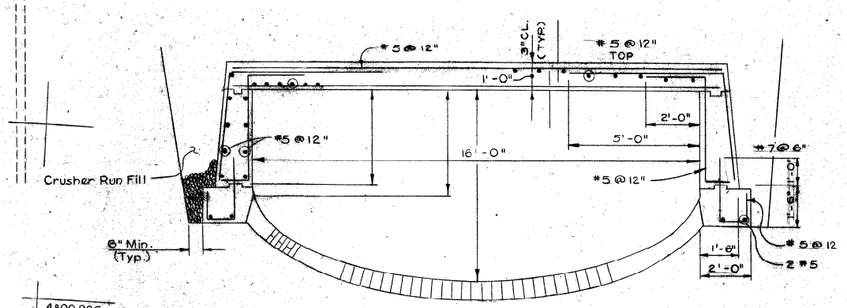


PLAN

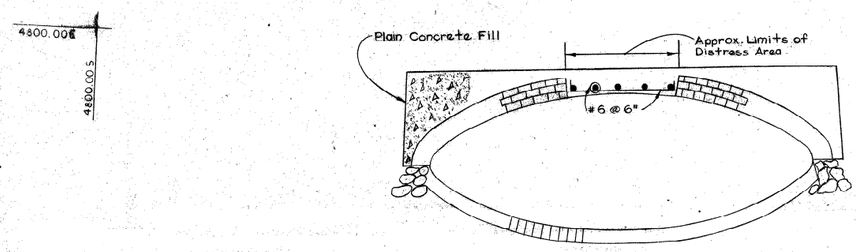
SCALE: 1" = 20'



ORIGINAL SECTION

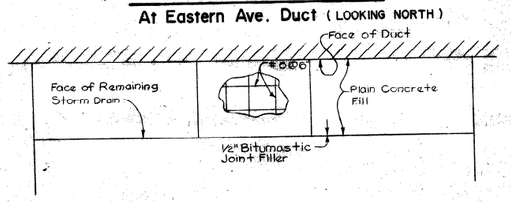


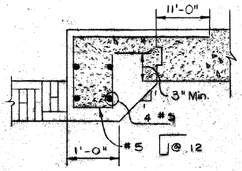
TYPICAL SECTION



TRANSITION SECTION

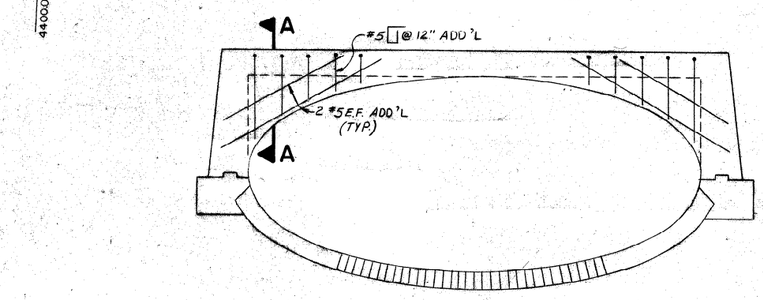
At Eastern Ave. Duct (LOOKING NORTH)



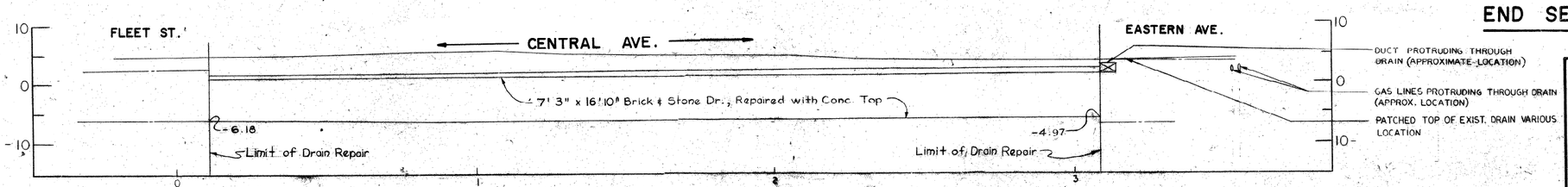


SECTION A-A

Note:
Repair performed on emergency time-and-materials contract by Baltimore Contractors Inc., July-October 1981. Also see drawing No. B.S. 80-28551



END SECTION, FLEET STREET



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER AND WASTE WATER

CENTRAL AVENUE STORM DRAIN, EMERGENCY REPAIRS

FLEET ST. AND EASTERN AVE.

SCALE: AS NOTED DATE: 2/23/82

WASTE WATER ENGINEERING DIVISION SHEET 1 OF 1

DRAWN BY [signature]
CHECKED BY [signature]

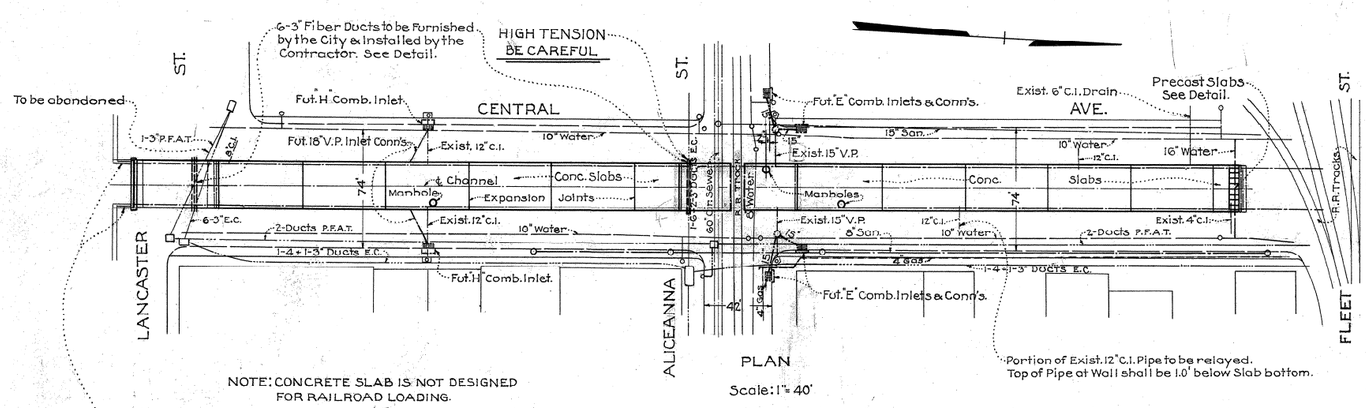
FILE REF. W.W.D. 80-44637

W16-3-13-47
Rev. 5-12-47

B.S. 80-34409

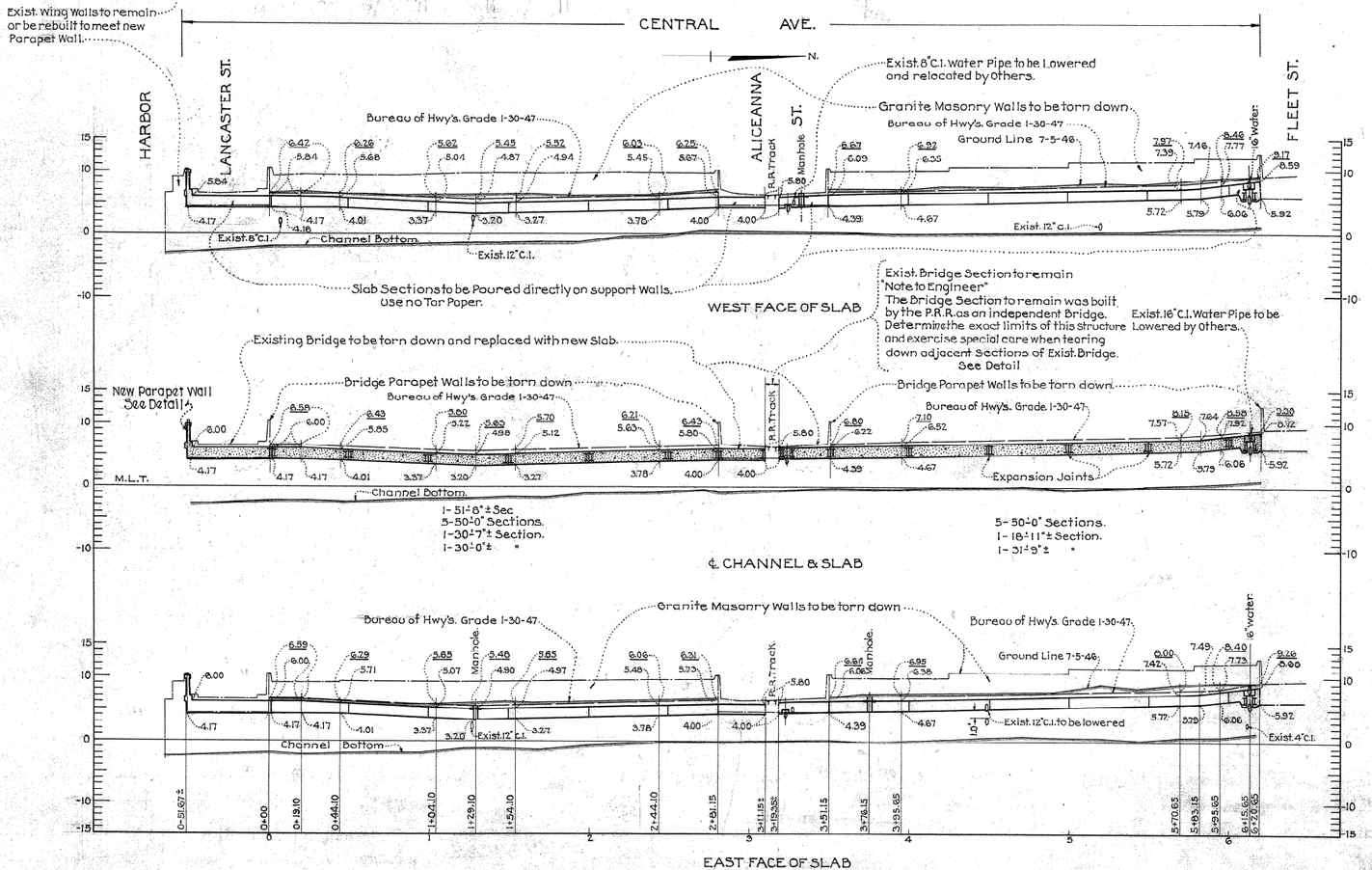
W. O. 2932

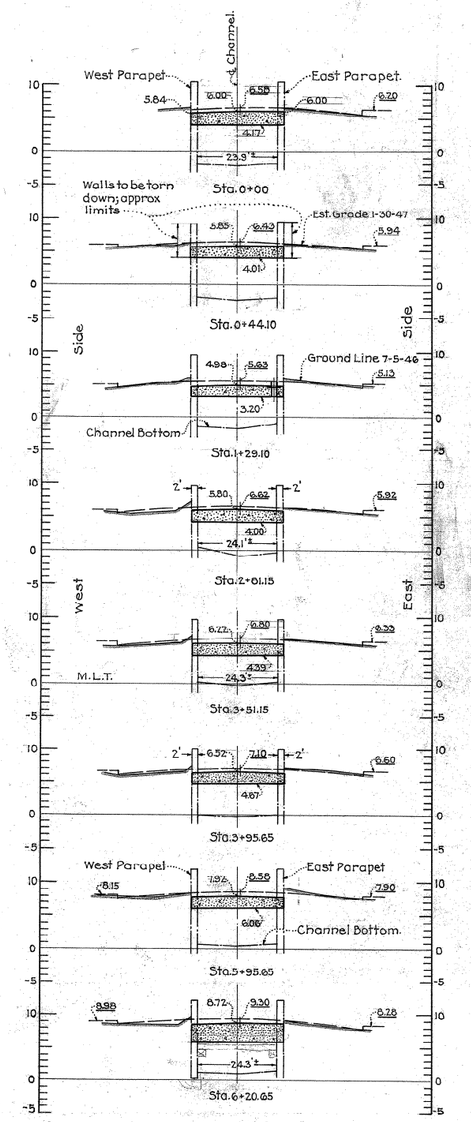
Released by R. of W. Div. 3-7-47

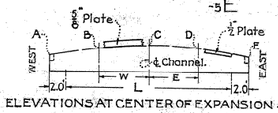


NOTE: No Inlets or Inlet Connections to be built on this Contract.

Est. Grade Elevations Shown thus: 6.00







ELEVATIONS AT CENTER OF EXPANSION JOINTS

STA.	ELEVATIONS A	B	C	D	E	DISTANCE-FT. W	E	L
0+00.04	5.84	5.94	6.00	6.02	6.00	6.7	7.5	23.9
0+50.12	5.67	5.73	5.79	5.74	5.65	6.8	7.2	
1+00.20	5.08	5.20	5.26	5.21	5.11	"	"	
1+50.28	4.93	5.05	5.10	5.06	4.96	"	"	
2+00.36	5.20	5.32	5.38	5.33	5.23	"	"	
2+50.44	5.54	5.65	5.70	5.65	5.54	"	"	
2+81.15	5.67	5.79	5.80	5.80	5.73	"	"	24.1
3+51.15	6.09	6.18	6.22	6.14	6.06	7.4	6.7	24.3
4+01.27	6.36	6.49	6.55	6.50	6.41	"	"	
4+51.35	6.68	6.79	6.85	6.80	6.71	"	"	
5+01.43	6.97	7.09	7.14	7.10	7.00	6.9	7.2	
5+51.47	7.28	7.39	7.45	7.40	7.31	6.9	7.4	
6+01.55	7.36	8.06	8.11	8.03	7.93	6.5	7.4	

CROSS SECTIONS
Scale: HOR. 1" = 20'
VER. 1" = 10'

FILE NUMBERS OF DRAWINGS IN THIS CONTRACT.
B.S. 80-34409
B.S. 80-34410
B.S. 80-34444

NOT BUILT See B.S. 80-37930

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF SEWERS

STORM WATER CONTRACT NO. 222
CENTRAL AVE. CHANNEL COVERING

SHEETS IN SET: 3
SCALES AS SHOWN.
SHEET NO. 1
DATE: MARCH 3, 1947

ASSOCIATE ENGINEER.
DEPUTY SEWERAGE ENGINEER.
SEWERAGE ENGINEER.
CHIEF ENGINEER.

DRAWN BY: W.H.S.
TRACED BY: W.E.S.
CHECKED BY: W.H.S.

EXAMINED BY: B.D. Gemmill
JR. ASSOCIATE ENGINEER.

EST. GRADE: Edward Thacker
CITY SURVEYOR.

Sheet No. 3 is B.S. 80-3444

B.S. 80-34409

E-152-1000
E-170