CITY OF DETROIT
CITY ENGINEERING DIVISION - D.P.W.

IN CO-OPERATION WITH

MICHIGAN DEPARTMENT OF TRANSPORTATION

AND

FEDERAL HIGHWAY ADMINISTRATION

PLAN AND PROFILE OF PROPOSED

FEDERAL BRIDGE REPLACEMENT PROJECT NO. BRM 2000(196)
CONTROL SECTION BRM 82400 JOB NO 07110A
FEDERAL ITEM - 153

B.P.R. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
STREET	CITY	COUNTY	TWP	SHEET NO.	TOTAL SHEETS
	DETROIT	WAYNE		1	

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1979 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

PROJ. NO. BRM 2000(196)
CONTROL SEC. BRM 82400
JOB NO. 07110A
ITEM - 153

LAFAYETTE AVE.
BRIDGE X01 OF 82-22-58

ROSA PARKS BLVD (12TH STREET)
BRIDGE X01 OF 82-22-59

ITEM NO. 89

CONTRACT FOR RECONSTRUCTION

LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
CITY ENGINEERING DIVISION
ENVIRONMENTAL PROTECTION & MAINTENANCE DEPARTMENT

APPROVED BY _____ ASSISTANT CITY ENGINEER — DATE 6/24/80

APPROVED BY _____ CITY ENGINEER — DATE 6-30-80

PREPARED UNDER SUPERVISION OF

T. E. McGowan — REGISTERED PROFESSIONAL ENGINEER — 8017 REGISTRATION NO.

CITY OF DETROIT — ORGANIZATION

DETROIT MICHIGAN — ADDRESS

(SEAL)

INDEX OF SHEETS

ROADWAY

1	TITLE SHEET
R1-2	TYPICAL CROSS-SECTIONS
R-3	ALIGNMENT
R4-5	CONSTRUCTION SEQUENCE
R6	REMOVALS
R7	HOWARD ST. SIDEWALK CONSTR.
R8	PLAN
R9-10	PROFILE
R11-13	DETAILED GRADES
R14	UTILITIES
R15	SPECIAL DETAILS
R16	LANDSCAPE PLAN
R17-18	FIRE HYDRANTS
R19-21	STANDARD PLANS & DETAILS
R22	QUANTITY SHEET
WS1-3	SEWER & WATER ALTERATIONS

ELECTRICAL

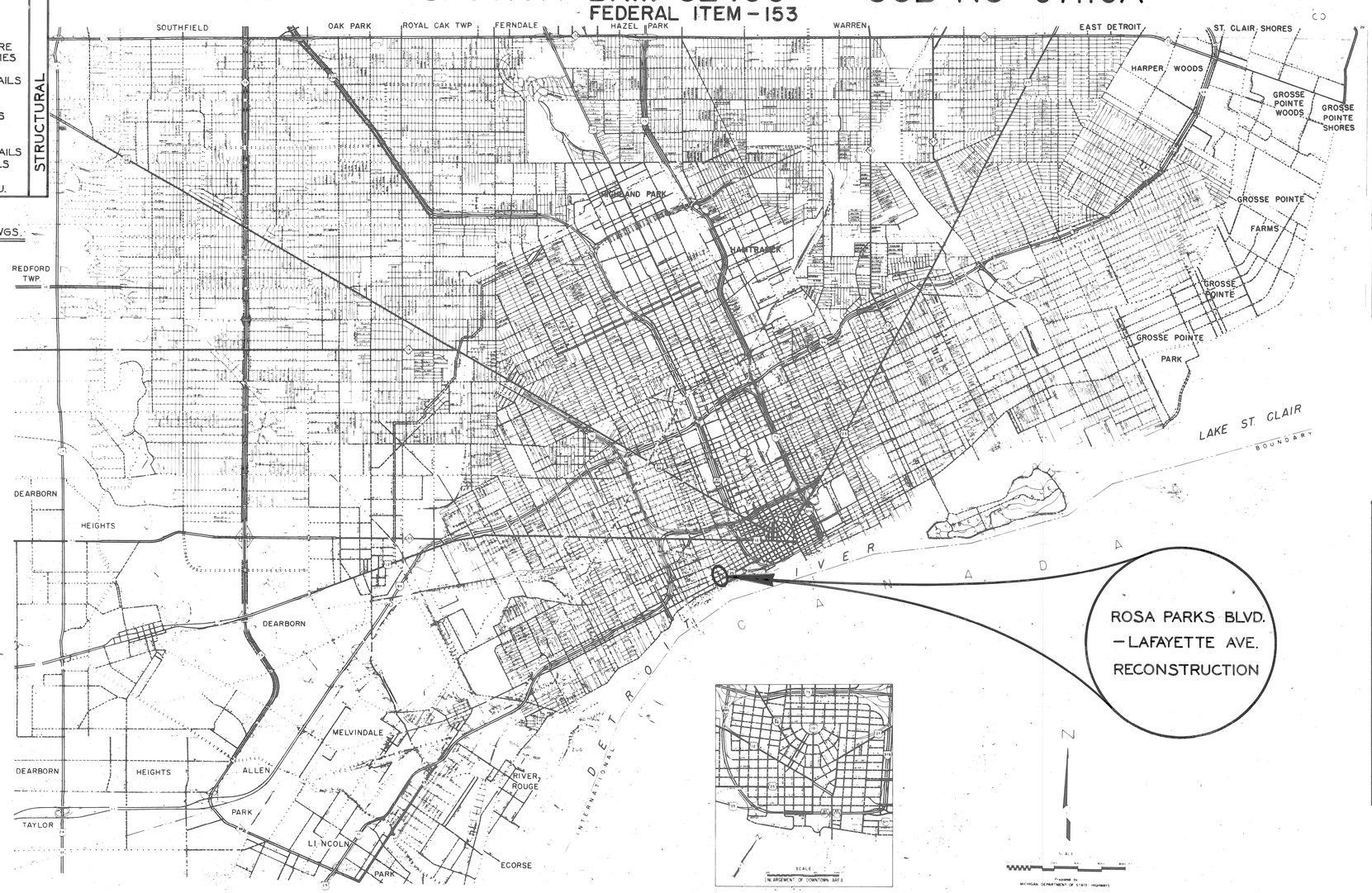
E1	ELECTRICAL LEGEND
E2	GENERAL INFORMATION
E3-4	GENERAL PLANS
E5-6	WIRING DIAGRAMS
E7-8	TRAFFIC SIGNALS
E9-29	DETAILS
E30	ELECTRICAL QUANTITY SHEETS

STRUCTURAL

S101	GENERAL PLAN OF SITE
S102	LOG OF SOIL BORINGS
S103	GENERAL DRAWING
S104-106	GENERAL PLAN OF STRUCTURE
S107	EXISTING & PROPOSED UTILITIES
S108	STAGING DRAWING
S109-117	ABUTMENT & WINGWALL DETAILS
S118	PILING PLAN
S119-122	PIER DETAILS
S123-126	STRUCTURAL STEEL DETAILS
S127-138	SUPERSTRUCTURE DETAILS
S139-140	SCREED DETAILS
S141-144	STEEL REINFORCEMENT DETAILS
S145	BRIDGE NAME PLATE DETAILS
S146	BRIDGE QUANTITY SHEET
SR1-12	REF. DRWGS.-EX BRIDGE STRU.

MDOT STANDARD REFERENCE DRWGS.

II-52D	II-28F	II-29C
II-39G	II-40D	II-41D
II-42C	II-43C	II-44D
II-45C	IV-84B	
V-100A	VI-124C	VI-125E



FILE NO. LINE NO. 1350 STENCIL		STATE PROJECT	FEDERAL PROJECT	SHEET NO.
				1

BRM 82400 - 07110A R01 OF 82-22-58 & R02 OF 82-22-59

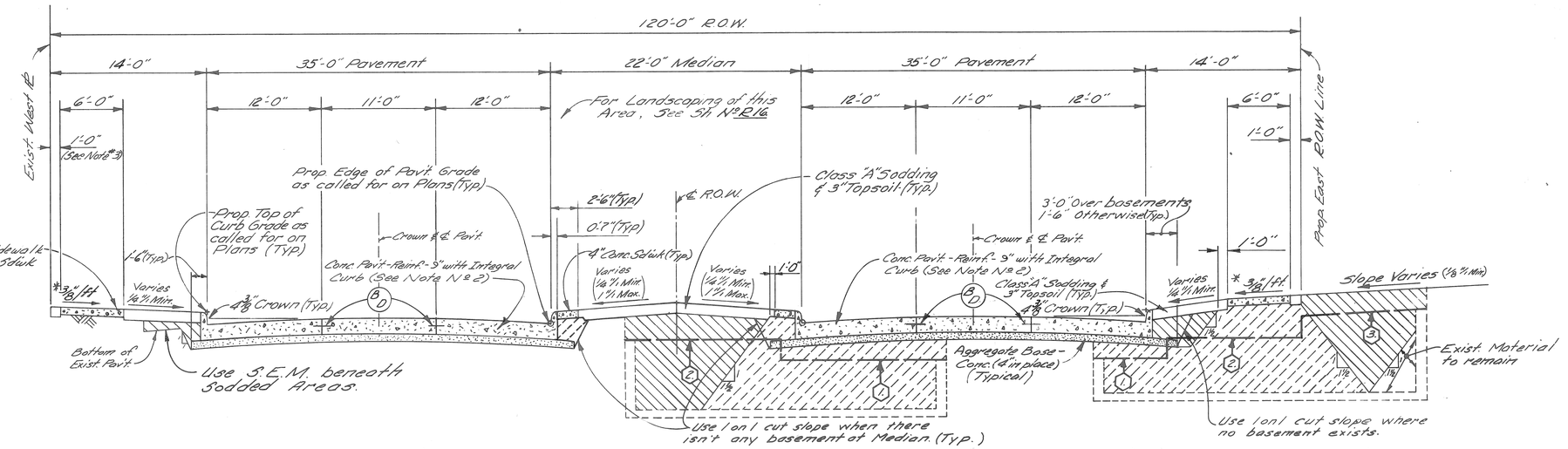
DRAFTING MATERIALS, INC. 800 2-71 44749

The following are estimated quantities for ROSA PARKS BLVD.-LAFAYETTE which may be used at the discretion of the Engineer.

4" Concrete Sidewalk	360 Sq. Ft.
Removing Sidewalk	40 Sq. Yds.
Basement Cleanout	50 Cu. Yds.
Subgrade Undercutting, Type II	200 Cu. Yds.

MISCELLANEOUS QUANTITIES
ROSA PARKS BLVD. — LAFAYETTE

Mobilization	Lump Sum
On The Job Training	3 Each

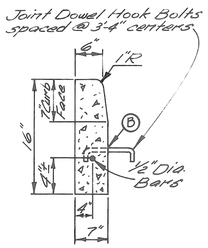


* Sidewalk slopes are to be 3/8" / 1 unless the engineer determines that a minimum slope of 1/4" / 1 or a maximum slope of 3/4" / 1 must be used to meet existing conditions

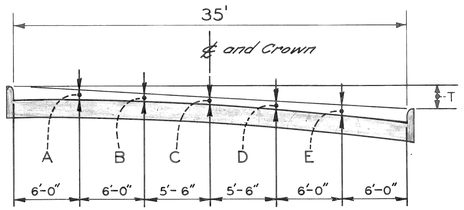
BASEMENT WALL REMOVAL:

1. Remove walls 3'-0" below Prop. Pav't. Surface to 2'-0" behind Face of Curb.
2. Remove walls in Median and Sidewalk Areas to the bottom of the Prop. Pav't Slab.
3. Remove walls in areas outside the 120' R.O.W. to 1'-0" below the Prop. Surface Elevations.

TYPICAL CROSS-SECTION OF ROSA PARKS BLVD. WIDENING
FORT ST. TO HOWARD ST.
NO SCALE

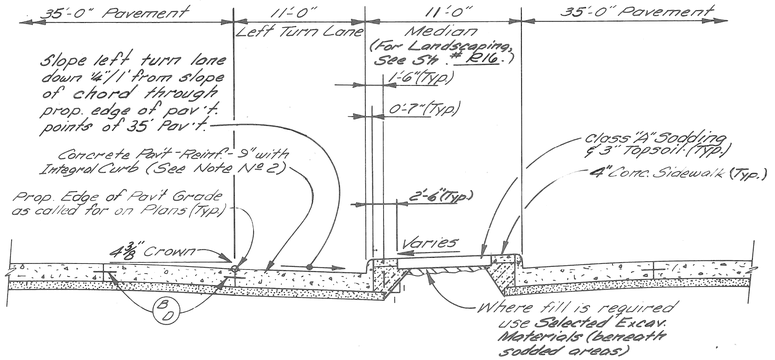


CONC. CURB
DETAIL "X"
NO SCALE

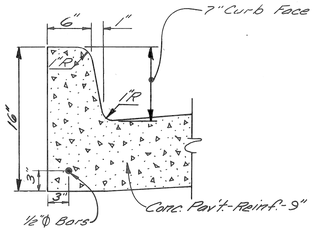


PAV'T WIDTH	CURB HEIGHT		T	A	B	C	D	E
35'	7"		Varies	4 1/2"	3"	2 5/8"	3"	4 1/2"

ELEMENTS OF 35' PAVEMENT



TYPICAL CROSS-SECTION OF LEFT TURN LANE
NO SCALE



INTEGRAL CURB
NO SCALE

EARTHWORK LEGEND

- Granular Mat'l Class II (See Note #5)
- Aggregate Base-Conc. (4" in place)
- Selected Excavated Materials (Incidental to Paving Costs.)

JOINT LEGEND

- (B) Longitudinal Bulkhead Joint according to M.D.O.T. Std. Dwg. II-41D
- (D) Longitudinal Lane Tie Joint with Tie Bars according to M.D.O.T. Std. Dwg. II-41D
- (BD) Optional, B or D

NOTES:

1. It is estimated that approximately 200 Cu. Yds. of Subgrade Undercutting Type II will be required for this contract.
2. The proposed curb shall be Integral Curb (See Detail this sheet) with Conc. Curb Detail "X" as an alternate.
3. Place 4" Conc. Sidewalk to face of Building where Building fronts on property line.
4. An embankment section will have Granular Mat'l. Class II under pav't. & sidewalks, Selected Excavated Mat'l. under sod, one on two side slopes from the property line to existing ground, and otherwise be as shown in the basement areas above.
5. Granular Mat'l. Class II which is used for backfill, other than that required for "Basement Cleanout", will be paid for at the contract unit price for "Embankment-Granular Mat'l. Class II".

DESCRIPTION	DR'N	CK'D	APV'D	DATE
REVISIONS				

DESIGNED BY	
DRAWN BY	J. R. D.
CHECKED BY	W. B.
FINAL REVIEW	

APPROVED: ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
CITY ENGINEERING DIVISION
E. P. M. D.

ROSA PARKS BLVD. — LAFAYETTE AVE.
RECONSTRUCTION

TYPICAL CROSS-SECTIONS — ROSA PARKS BLVD.

SHEET R1 OF R22 SHEETS
CONTRACT No. 07110A
ASSIGNMENT No.
DATE 10-79

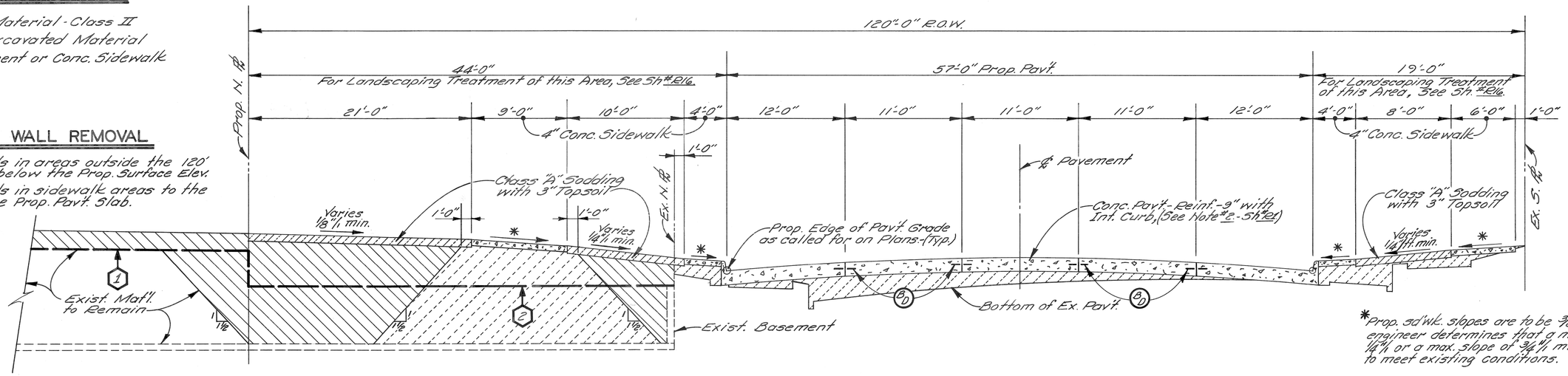
R. CARROLL, INC. 378 1818

EARTHWORK LEGEND

- Granular Material - Class II
- Selected Excavated Material
- Conc. Pavement or Conc. Sidewalk

BASEMENT WALL REMOVAL

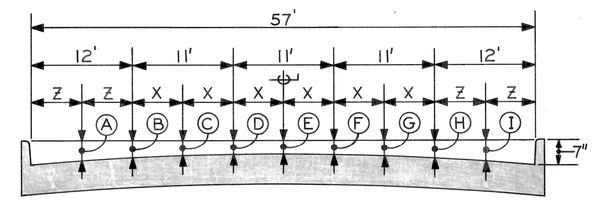
1. Remove walls in areas outside the 120' R.O.W. to 1'-0" below the Prop. Surface Elev.
2. Remove walls in sidewalk areas to the bottom of the Prop. Pavt. Slab.



*Prop. sd'wk. slopes are to be 3/8"/' unless the engineer determines that a min. slope of 1/4"/' or a max. slope of 3/4"/' must be used to meet existing conditions.

TYPICAL CROSS-SECTION – LAFAYETTE AVE. RECONSTRUCTION
STATION 22+00 TO STATION 31+00

NO SCALE



PAV'T. WIDTH	CURB HEIGHT	X	A	B	C	D	E	F	G	H	I	Z
57'	7"	5½'	4⅞"	3⅛"	2⅛"	1½"	1¼"	1½"	2⅛"	3⅛"	4⅞"	6'

ELEMENTS OF 55' PAVEMENT

NO SCALE

JOINT LEGEND

B or D — Longitudinal Bulkhead Construction Joint according to M.D.O.T. Std. Dwg. II-41-D

B/D — Optional, B or D

GENERAL NOTES

1. For Miscellaneous Quantities, See Sh. No. R1.
2. An embankment section will have Granular Mat'l. Class II under pav't. & sidewalks, Selected Excavated Mat'l. under sod, one on two side slopes from the property line to existing ground, and otherwise be as shown in the basement areas above.

COOR'D	DESCRIPTION	DR'N	CK'D	AP'VD	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY

DRAWN BY MAP

TRACED BY

CHECKED BY W.B.

APPROVED:

ENGINEER OF STREETS

HIGHWAY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION - EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. – LAFAYETTE AVE.
RECONSTRUCTION

TYPICAL CROSS-SECTIONS – LAFAYETTE AVE.

SHEET R 2 OF R 22 SHEETS

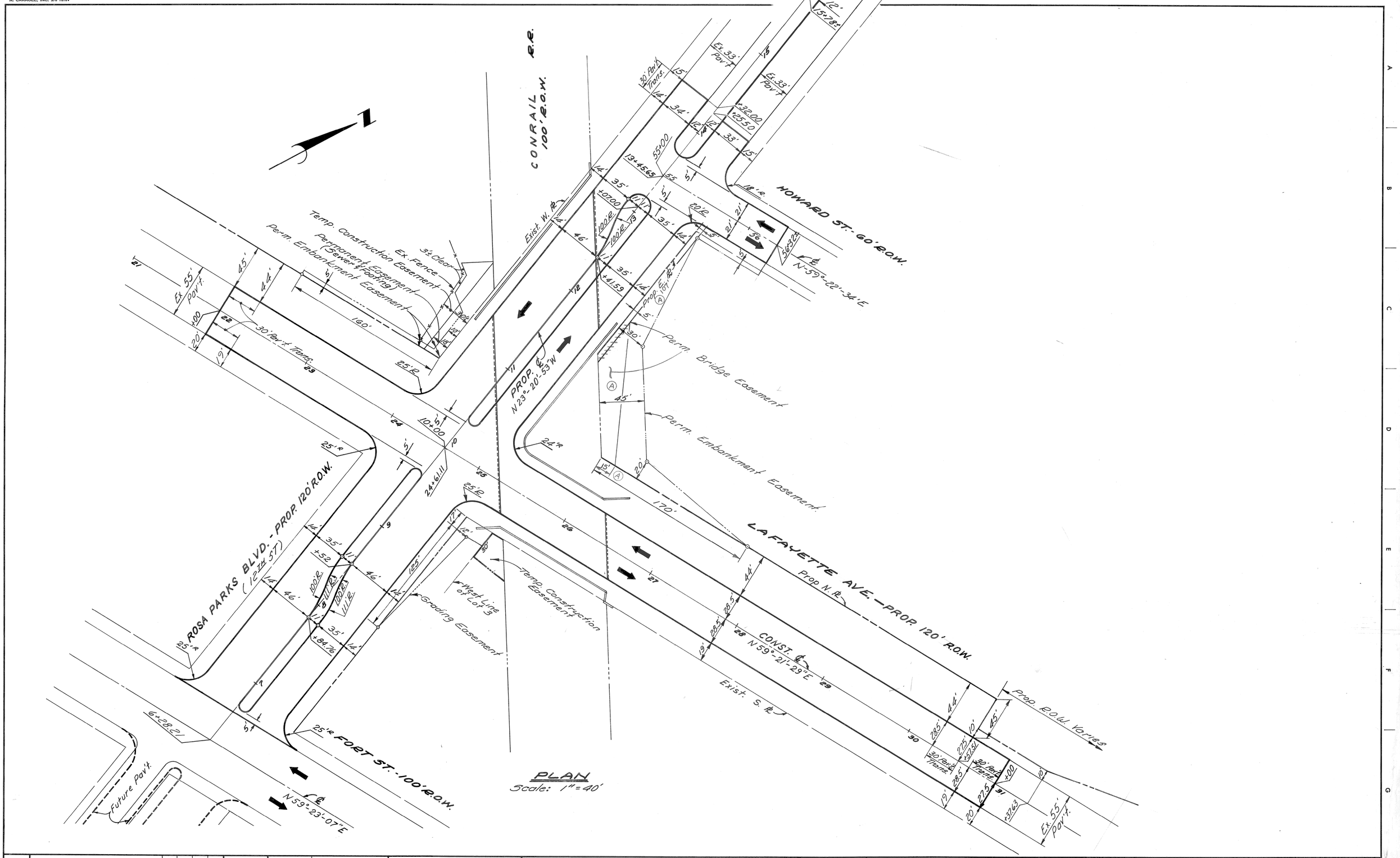
CONTRACT NO. 07110A

ASSIGNMENT NO.

DATE 10-79

1 2 3 4 5 6 7 8 9 10 11

R. CARROLL, INC. 378 1818



PLAN
Scale: 1" = 40'

(A)	Change Easement					12/16/81
CODE	DESCRIPTION	DR'N	CK'D	AP'VD	DATE	

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY	
DRAWN BY	M.P./R.C.
TRACED BY	
CHECKED BY	Comly

APPROVED:

ENGINEER OF STREETS

HIGHWAY ENGINEER

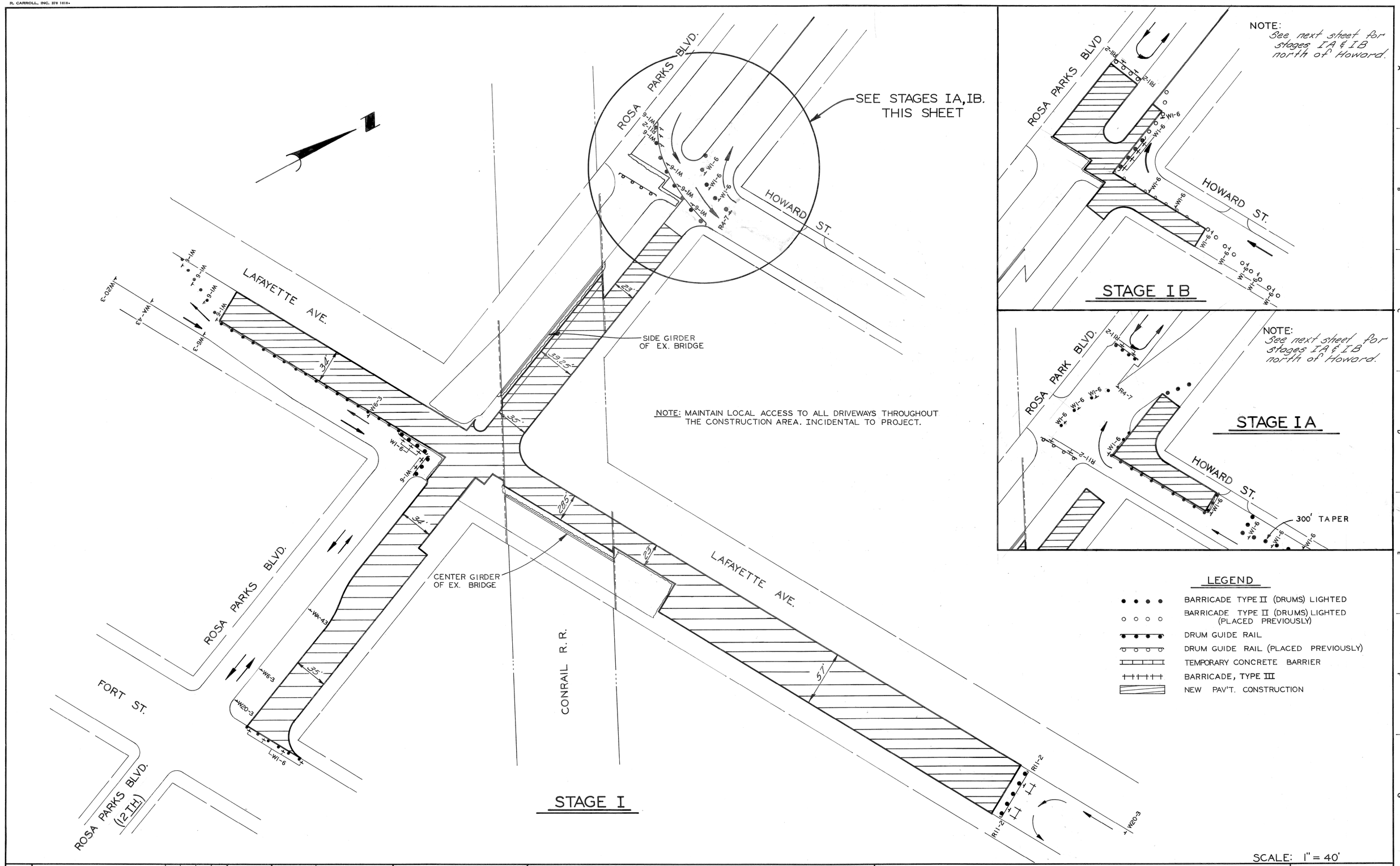
CITY OF DETROIT
CITY ENGINEERING DIVISION - EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

ALIGNMENT

SHEET R 3 OF R 22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

R. CARROLL, INC. 378 1618



							REFERENCE DRAWINGS	DESIGNED BY	
								DRAWN BY	
								TRACED BY	
COOR'D	DESCRIPTION	DR'N	CK'D	AP'VD	DATE			CHECKED BY	R.P.

REVISIONS LOCATED BY COORDINATES ON SHEET

APPROVED:

ENGINEER OF STREETS

HIGHWAY ENGINEER

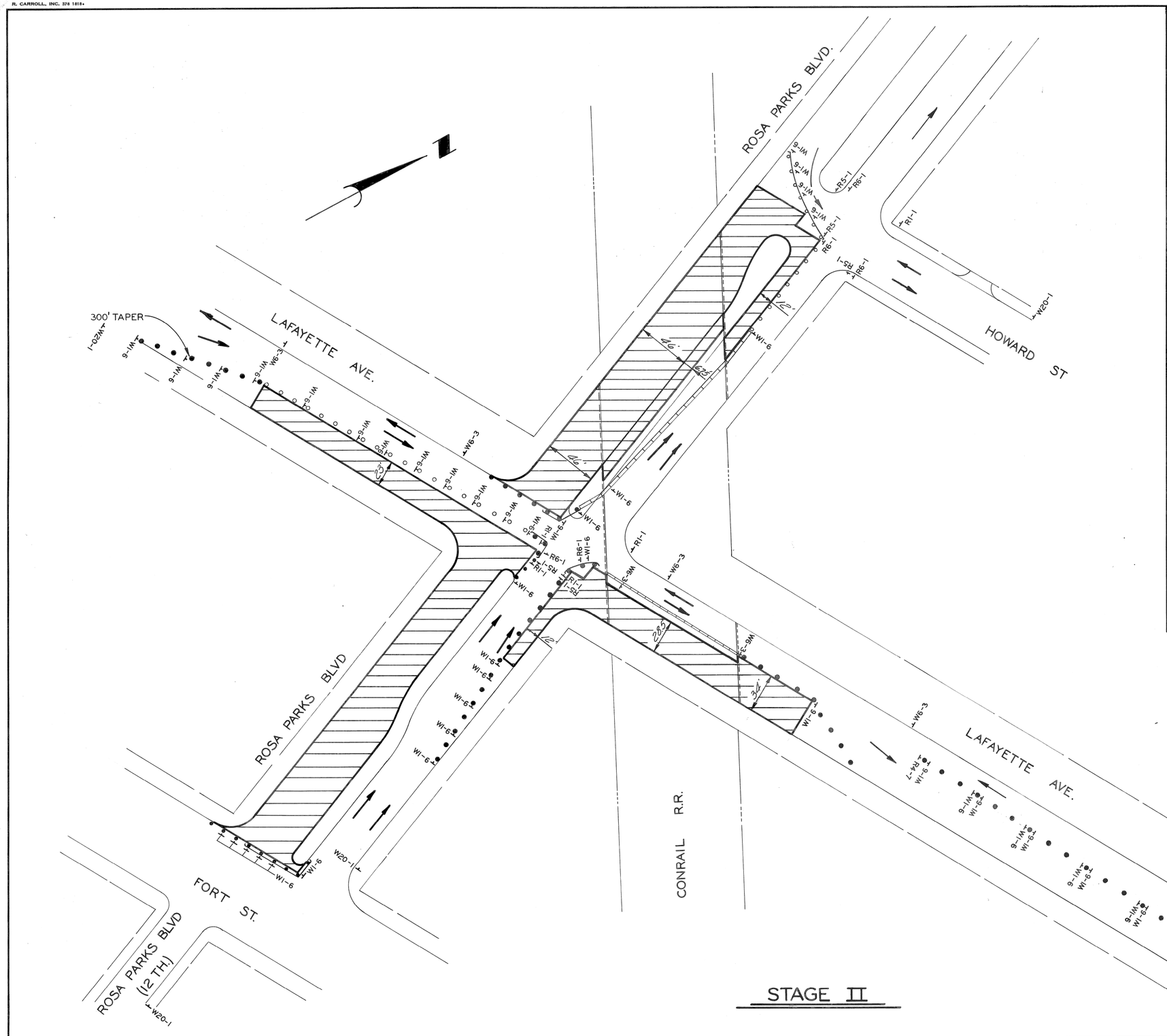
CITY OF DETROIT
CITY ENGINEERING DIVISION-EPMD
BUREAUS OF STREETS AND HIGHWAYS

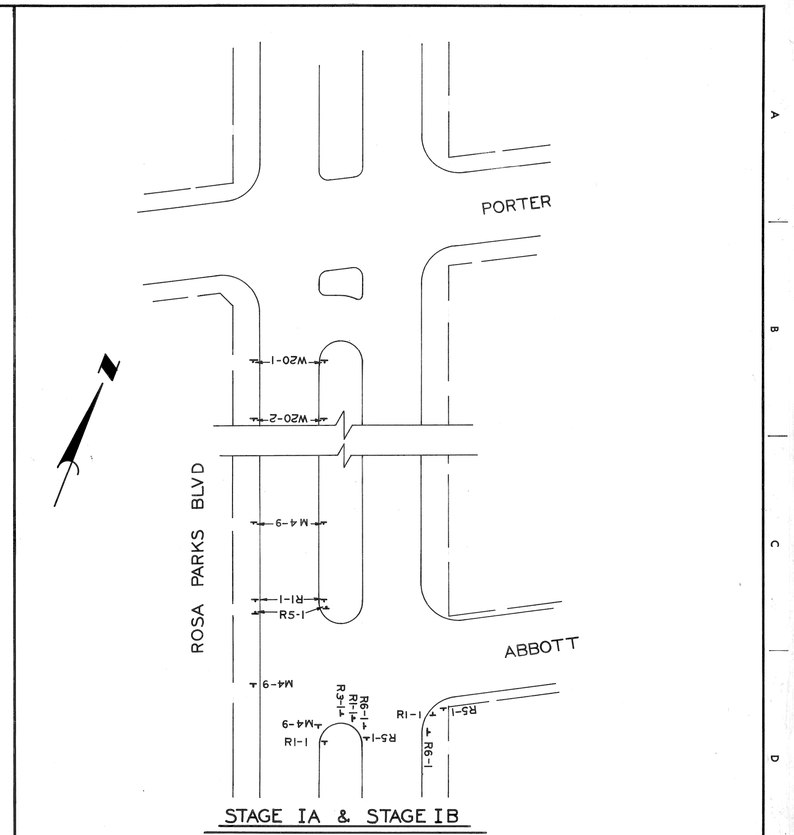
ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

CONSTRUCTION SEQUENCE

SHEET R4 OF R22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

R. CARROLL, INC. 378 1818





NOTES:

1. For Legend, See Sh. No. R-4.
2. Maintain local access to all driveways throughout the construction area. Incidental to project.

SCALE: 1" = 40'

COORD	DESCRIPTION	DR'N	CK'D	AP'VD	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET					

REFERENCE DRAWINGS

DESIGNED BY
DRAWN BY MAS
TRACED BY
CHECKED BY R.P.

APPROVED:
ENGINEER OF STREETS
HIGHWAY ENGINEER

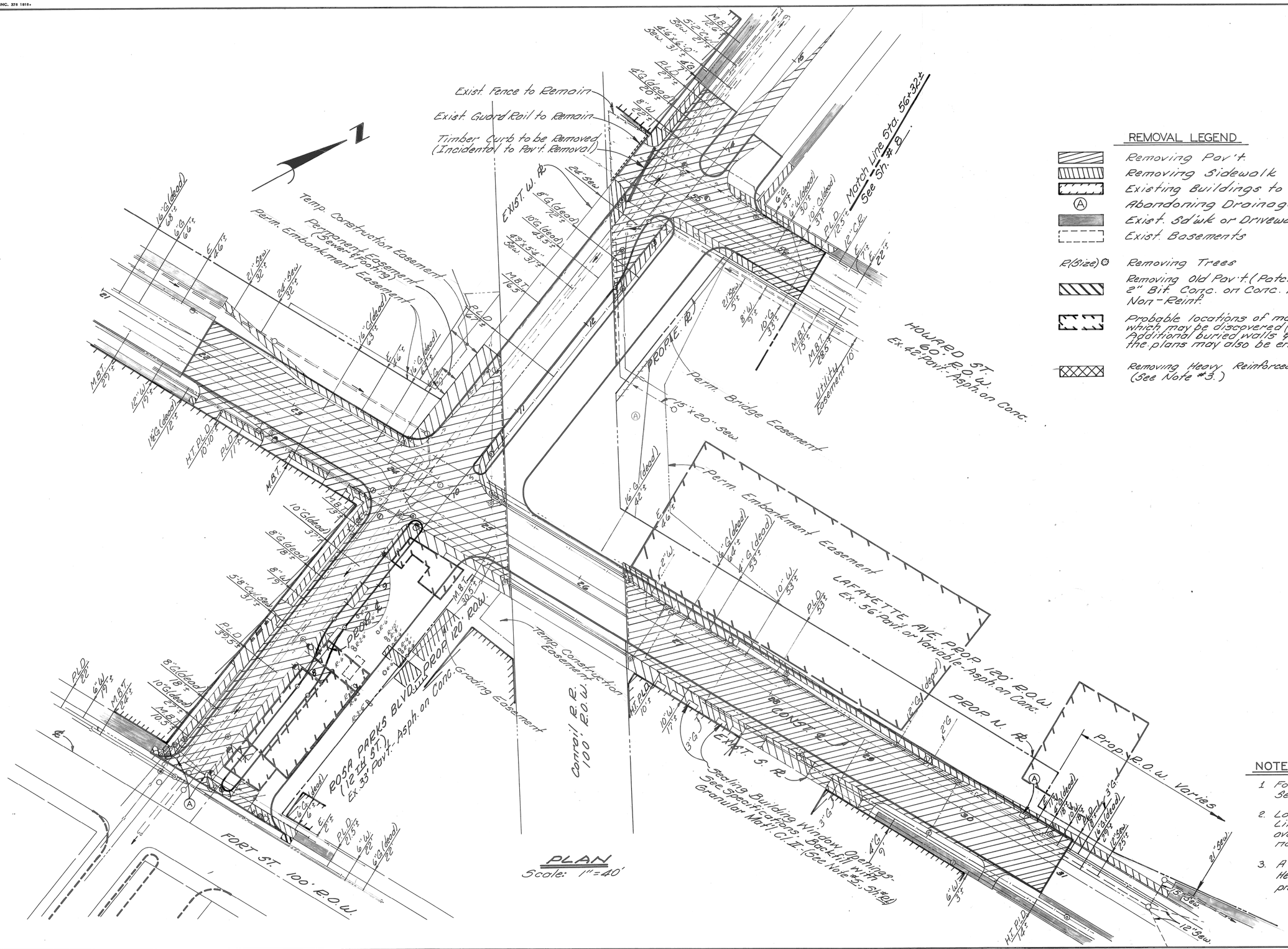
CITY OF DETROIT
CITY ENGINEERING DIVISION-EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD.-LAFAYETTE AVE.
RECONSTRUCTION

CONSTRUCTION SEQUENCE

SHEET R 5 OF R 22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

R. CARROLL, INC. 376 1818



REMOVAL LEGEND

- Removing Pav't.
- Removing Sidewalk
- Existing Buildings to Remain
- (A) Abandoning Drainage Structures
- Exist. Sd'wk or Driveways to Remain
- Exist. Basements
- R(Size) ⊗ Removing Trees
- Removing Old Pav't (Patching). Replace with 2" Bit. Conc. on Conc. Pav't. Patching - 9" Non-Reinf.
- Probable locations of masonry or concrete walls which may be discovered (demolished building sites). Additional buried walls & foundations not shown on the plans may also be encountered.
- Removing Heavy Reinforced Foundations. (See Note #3.)

NOTES

1. For Utility Legend & Symbols, See Sh. # R19.
2. Locations of Existing Utility Lines are based on the best available records and are not guaranteed for accuracy.
3. A Quantity (50 cu. yd.) of "Removing Heavy Reinforced Foundations" is provided in case this item is encountered.

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

(A)	Change Easement				11/1/81
DESCRIPTION		DR'N	CK'D	APVD	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY	
DRAWN BY	M.S.
TRACED BY	
CHECKED BY	W.B.

APPROVED:
ENGINEER OF STREETS
HIGHWAY ENGINEER

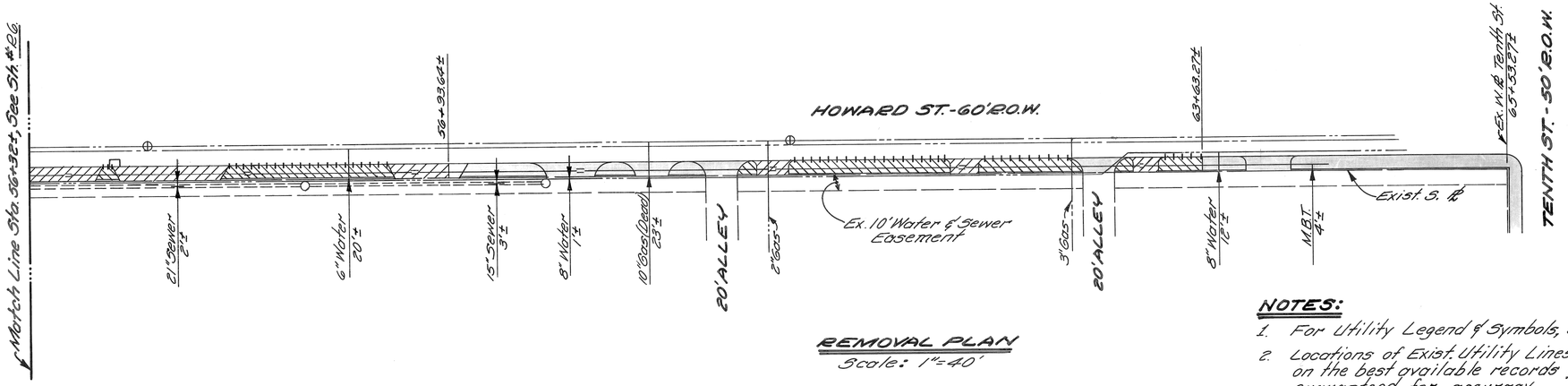
CITY OF DETROIT
CITY ENGINEERING DIVISION · EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

REMOVALS

SHEET R 6 OF R 22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

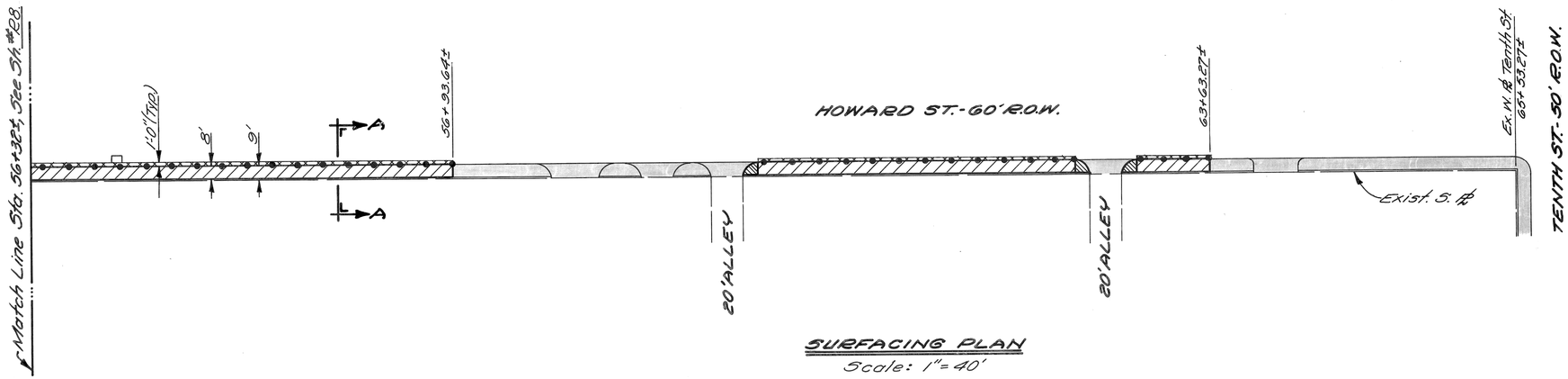
K&E 17 0153 12-73 5714S



REMOVAL PLAN
Scale: 1"=40'

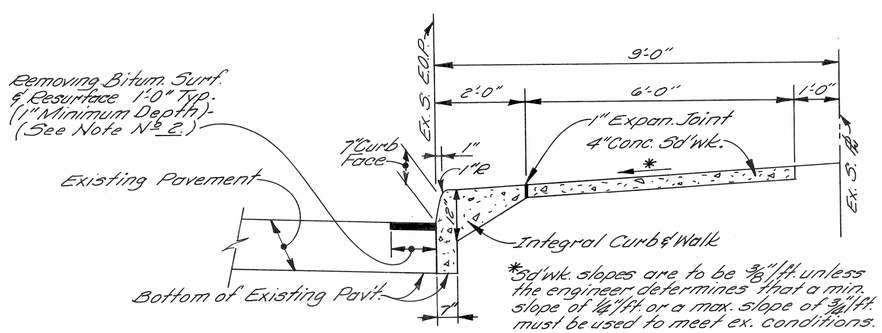
REMOVAL LEGEND
- Removing Pavement
- Removing Sidewalk
- Removing Curb
- Existing Sidewalk, Driveway, or Alley Pavement to Remain.

NOTES:
1. For Utility Legend & Symbols, See Sh. No. R.19.
2. Locations of Exist. Utility Lines are based on the best available records & are not guaranteed for accuracy.



SURFACING PLAN
Scale: 1"=40'

SURFACING LEGEND
- 4" Concrete Sidewalk
- 6" Concrete Sidewalk
- Existing Sidewalk, Driveway, or Alley Pavement to Remain
- Removing Bit. Surf. & Resurf. (Bit. Approaches)
- Integral Curb & Walk



SECTION "A-A"
No Scale

NOTES:
1. Fill, if required, under proposed sidewalk shall be Granular Material, Class II & will be paid for at the Contract unit price for "Embankment-Granular Material-Class II."
2. The contractor shall saw cut (1" min. depth) a longitudinal line along the limits of the one foot "Removing Bitum. Surf." This work will be paid for as "Edge Trimming."

COOR'D	DESCRIPTION	DR'N	CK'D	APV'D	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY	
DRAWN BY	MAB
TRACED BY	
CHECKED BY	W.B.

APPROVED:

CITY OF DETROIT
CITY ENGINEERING DIVISION
E. P. M. D.

ROSA PARKS BLVD. – LAFAYETTE AVE. RECONSTRUCTION

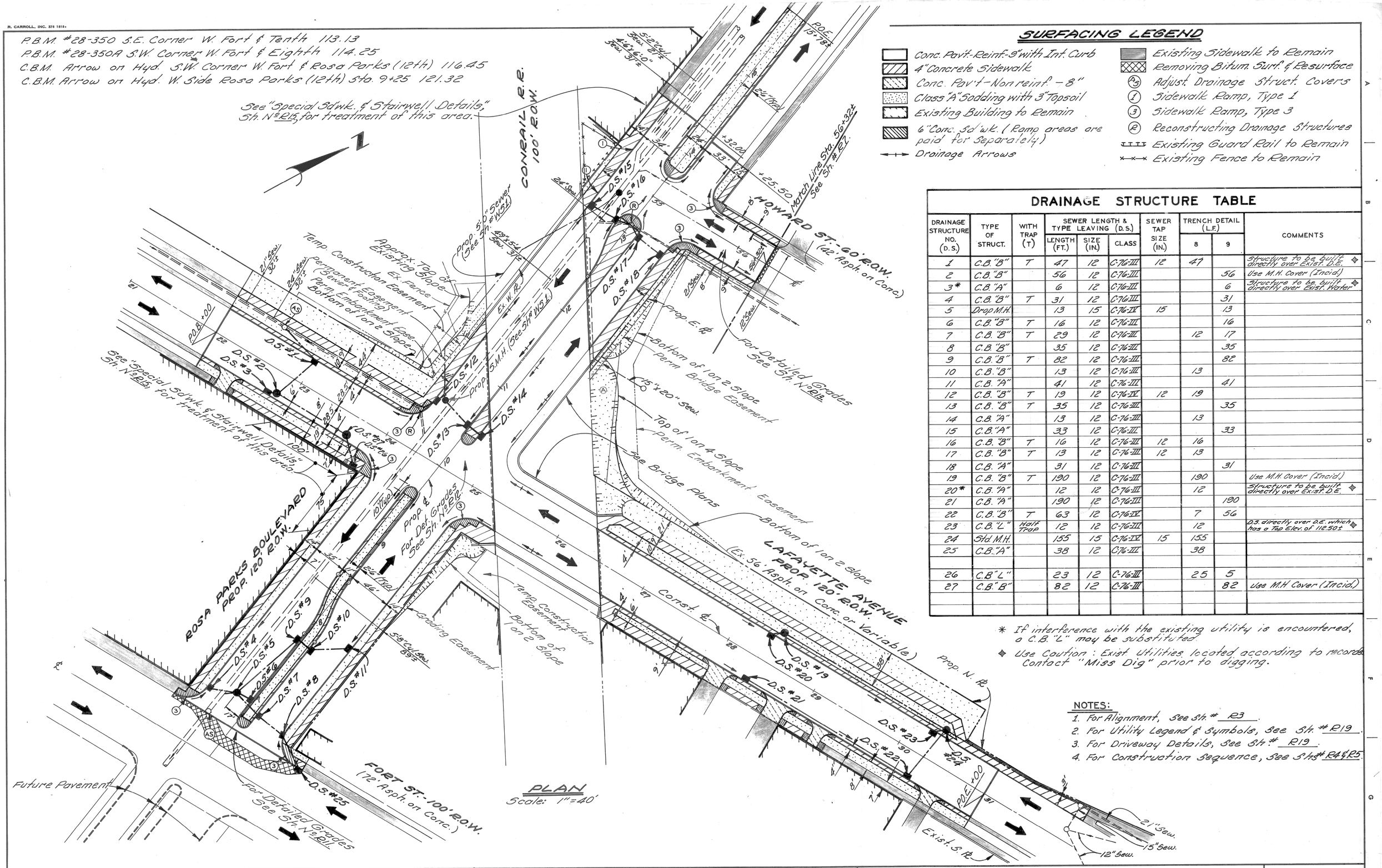
HOWARD ST. SIDEWALK CONSTRUCTION

SHEET R 7 OF R 22 SHEETS
CONTRACT No. 07110A
DRWG No.
DATE 10-79

R. CARROLL, INC. 378 1818

P.B.M. #28-350 S.E. Corner W. Fort & Tenth 113.13
P.B.M. #28-350A S.W. Corner W. Fort & Eighth 114.25
C.B.M. Arrow on Hyd. S.W. Corner W. Fort & Rosa Parks (12th) 116.45
C.B.M. Arrow on Hyd. W. Side Rosa Parks (12th) Sta. 9+25 121.32

See "Special Sd'wk. & Stairwell Details," Sh. No. R15, for treatment of this area.



PLAN
Scale: 1" = 40'

SURFACING LEGEND

- Conc. Pav't-Reinf.-9" with Int. Curb
- 4" Concrete Sidewalk
- Conc. Pav't-Non reinf. - 8"
- Class "A" Sodding with 3" Topsoil
- Existing Building to Remain
- 6" Conc. Sd'wk. (Ramp areas are paid for separately)
- Drainage Arrows
- Existing Sidewalk to Remain
- Removing Bitum. Surf. & Resurface
- Adjust Drainage Struct. Covers
- (1) Sidewalk Ramp, Type 1
- (3) Sidewalk Ramp, Type 3
- (R) Reconstructing Drainage Structures
- Existing Guard Rail to Remain
- Existing Fence to Remain

DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE NO. (D.S.)	TYPE OF STRUCT.	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING (D.S.) LENGTH (FT.)	SIZE (IN.)	CLASS	SEWER TAP SIZE (IN.)	TRENCH DETAIL (L.F.) 8	9	COMMENTS
1	C.B."B"	T	47	12	C-76-III	12	47		Structure to be built directly over Exist. D.E. ◆
2	C.B."B"		56	12	C-76-III			56	Use M.H. Cover (Incid.)
3*	C.B."A"		6	12	C-76-III			6	Structure to be built directly over Exist. Water ◆
4	C.B."B"	T	31	12	C-76-III			31	
5	Drop M.H.		13	15	C-76-IV	15		13	
6	C.B."B"	T	16	12	C-76-III			16	
7	C.B."B"	T	29	12	C-76-III		12	17	
8	C.B."B"		35	12	C-76-III			35	
9	C.B."B"	T	82	12	C-76-III			82	
10	C.B."B"		13	12	C-76-III		13		
11	C.B."A"		41	12	C-76-III			41	
12	C.B."B"	T	19	12	C-76-IV	12	19		
13	C.B."B"	T	35	12	C-76-III			35	
14	C.B."A"		13	12	C-76-III		13		
15	C.B."A"		33	12	C-76-III			33	
16	C.B."B"	T	16	12	C-76-III	12	16		
17	C.B."B"	T	13	12	C-76-III	12	13		
18	C.B."A"		31	12	C-76-III			31	
19	C.B."B"	T	190	12	C-76-III		190		Use M.H. Cover (Incid.)
20*	C.B."A"		12	12	C-76-III		12		Structure to be built directly over Exist. D.E. ◆
21	C.B."A"		190	12	C-76-III			190	
22	C.B."B"	T	63	12	C-76-IV		7	56	
23	C.B."L"	Half Trap	12	12	C-76-III		12		D.S. directly over D.E. which has a Top Elev. of 112.50± ◆
24	Std. M.H.		155	15	C-76-IV	15	155		
25	C.B."A"		38	12	C-76-III		38		
26	C.B."L"		23	12	C-76-III		25	5	
27	C.B."B"		82	12	C-76-III			82	Use M.H. Cover (Incid.)

* If interference with the existing utility is encountered, a C.B."L" may be substituted.

◆ Use Caution: Exist. Utilities located according to records. Contact "Miss Dig" prior to digging.

NOTES:
1. For Alignment, See Sh. # R3.
2. For Utility Legend & Symbols, See Sh. # R19.
3. For Driveway Details, See Sh. # R19.
4. For Construction Sequence, See Shs. # R4 & R5.

(A)	Change Easement				12/4/78
DESIGN NO.	DESCRIPTION	DR'N	CK'D	APV'D	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY
DRAWN BY MAP
TRACED BY
CHECKED BY W.B.

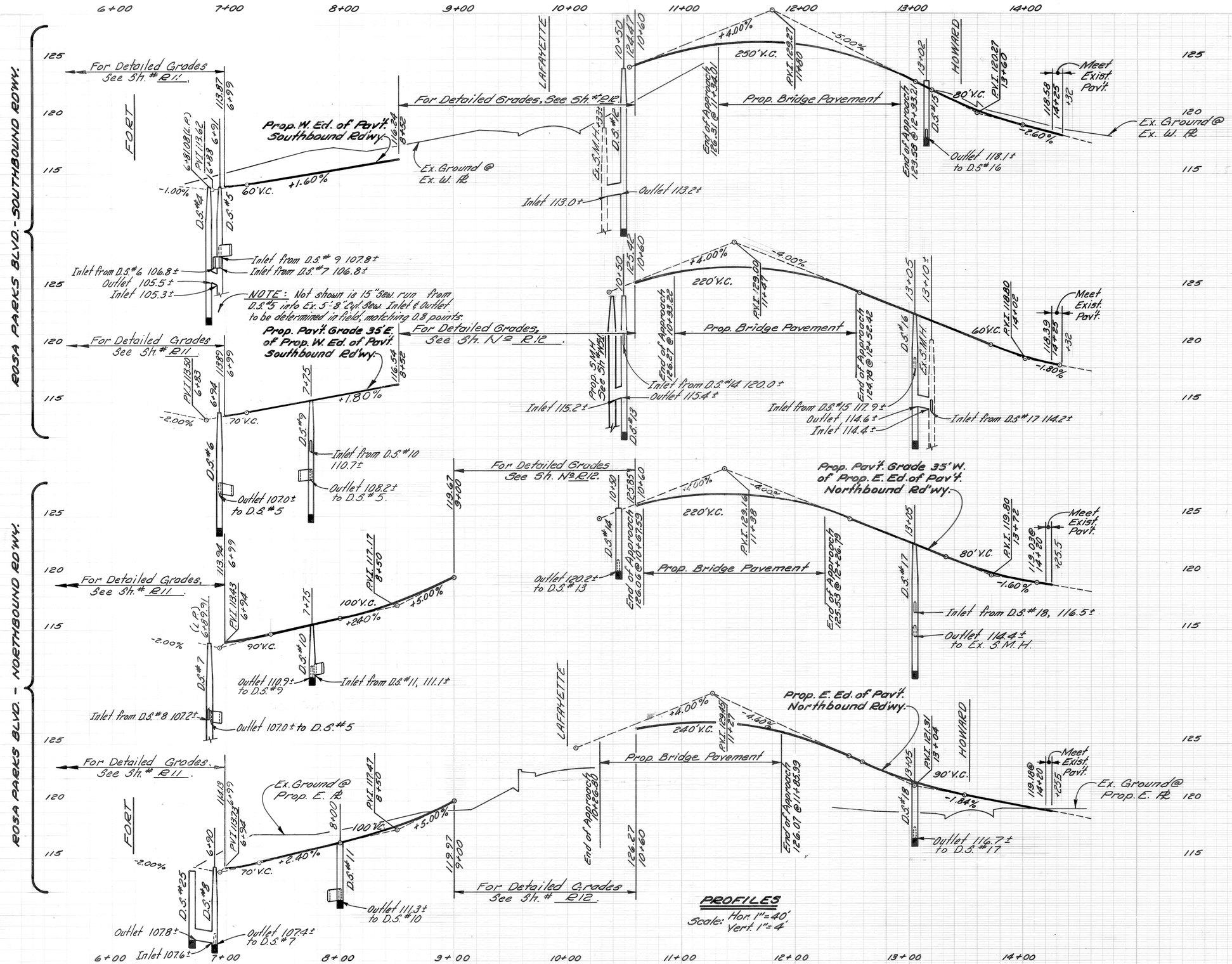
APPROVED:
ENGINEER OF STREETS
HIGHWAY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION - EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

PLAN

SHEET R 8 OF R 22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79



REVISIONS / DR'N / CK'D	DRWN BY MAP	APPROVED	CITY OF DETROIT
		ENGINEER OF EXPRESSWAYS	CITY ENGINEERING DIVISION
	CK'D BY I.H.K.		E.P.M.D.

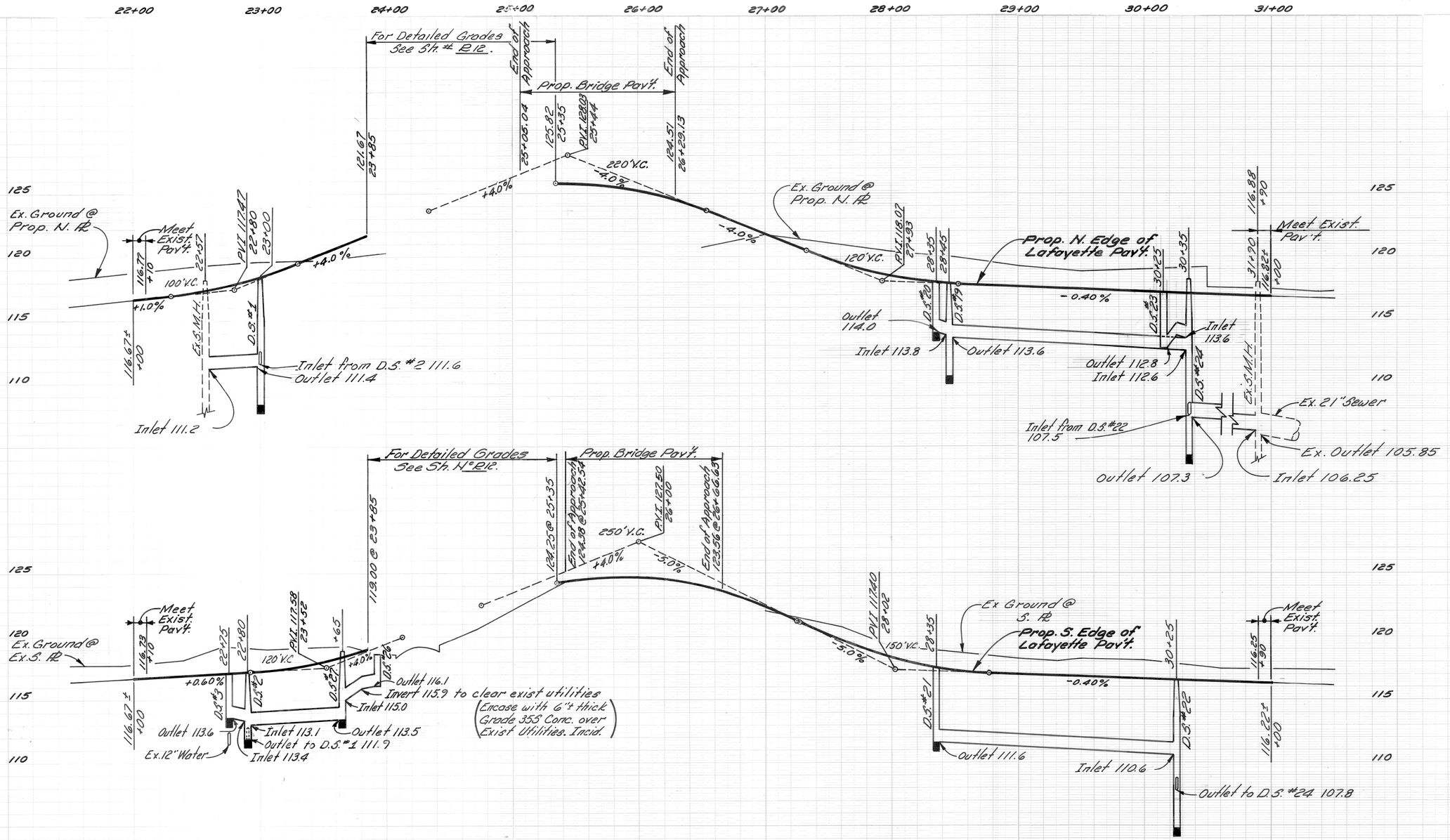
ROSA PARKS BLVD. – LAFAYETTE AVE. RECONSTRUCTION

PROFILES – ROSA PARKS BLVD.

SHEET R 9 OF R 22 SHEETS

CONTRACT NO. 07110A

DATE 10–79



PROFILES

Scale: Hor. 1" = 40'
Vert. 1" = 4'

REVISION'S	DR'N	CK'D	DRWN BY MAP CK'D BY R.P./W.B.	APPROVED ENGINEER OF EXPRESSWAYS	CITY OF DETROIT CITY ENGINEERING DIVISION E. P. M.D.	ROSA PARKS BLVD – LAFAYETTE AVE. RECONSTRUCTION PROFILES – LAFAYETTE AVE.

SHEET R10 OF R22 SHEETS
CONTRACT NO. 07110A
DATE 10-79

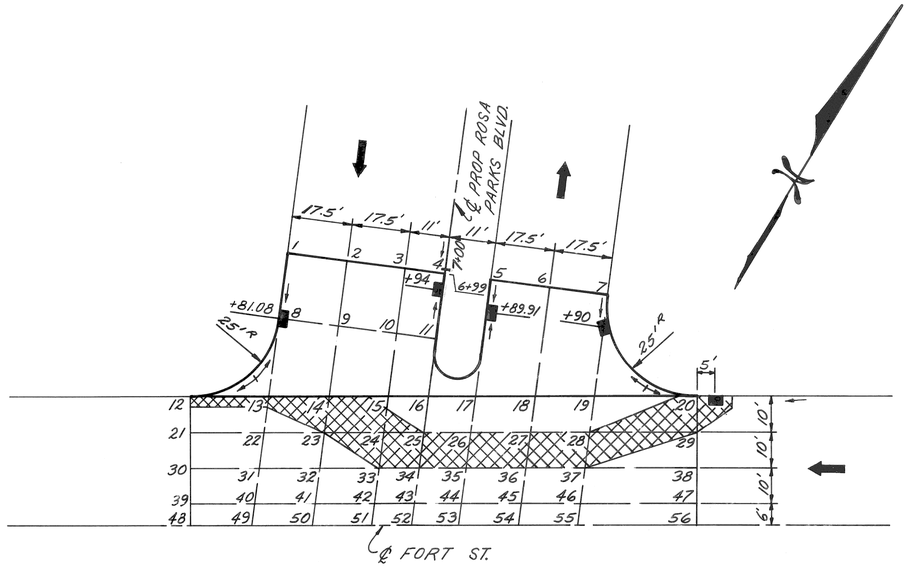
EDCO• 127M 1-75 59271

SCALE	HORIZONTAL	BOOK	LEVEL
	VERTICAL	NO. PG.	DATE
		PAVING COMPLETED	

BEFORE STARTING CONSTRUCTION.....CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

NOTE - FOR SYMBOLS Ⓐ ETC., SEE STANDARD DETAIL DRAWING NO C-4171

BENCH MARKS ELEV

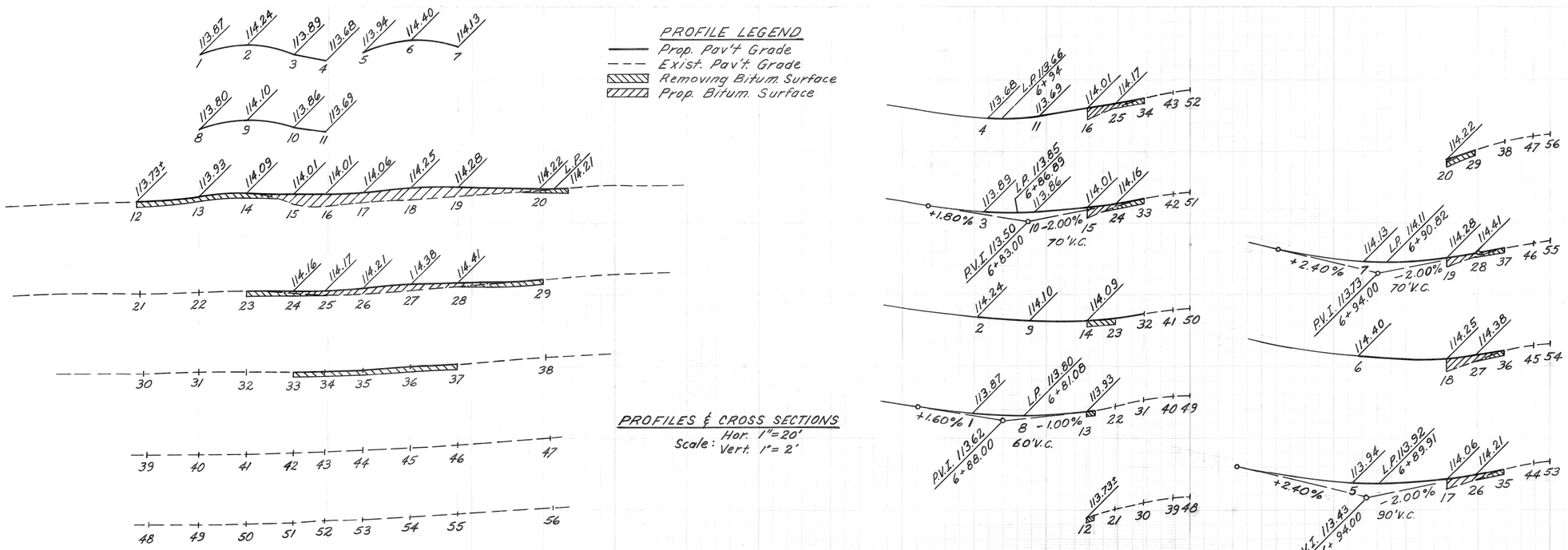


PLAN

Scale : 1" = 20'

PLAN LEGEND

- Propsed Pavement
- Removing Bitum. Surface & Resurface (Bitum. Approaches)
- Proposed Catch Basin
- Drainage Arrow



PROFILES & CROSS SECTIONS

Scale: Hor. 1" = 20'
Vert. 1" = 2'

DESCRIPTION	DR'N	CK'D	AP'VD	DATE
REVISIONS				

	BY	CHECKED BY
PLAN	Comly	R.P.
GRADE	Comly	R.P.
ESTIMATE		
FINAL	CHECK	REVIEW

APPROVED:

ENGINEER OF STREETS

HIGHWAY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION E.P.M.D.
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

DETAILED GRADES FOR
ROSA PARKS BLVD. AT FORT ST.

INDEX NO.

SHEET R 11 OF R 22 SHEETS

TOPO NO.

CONTRACT NO. 07110A

INDEXED

ASSIGNMENT NO.

DATE 10-79

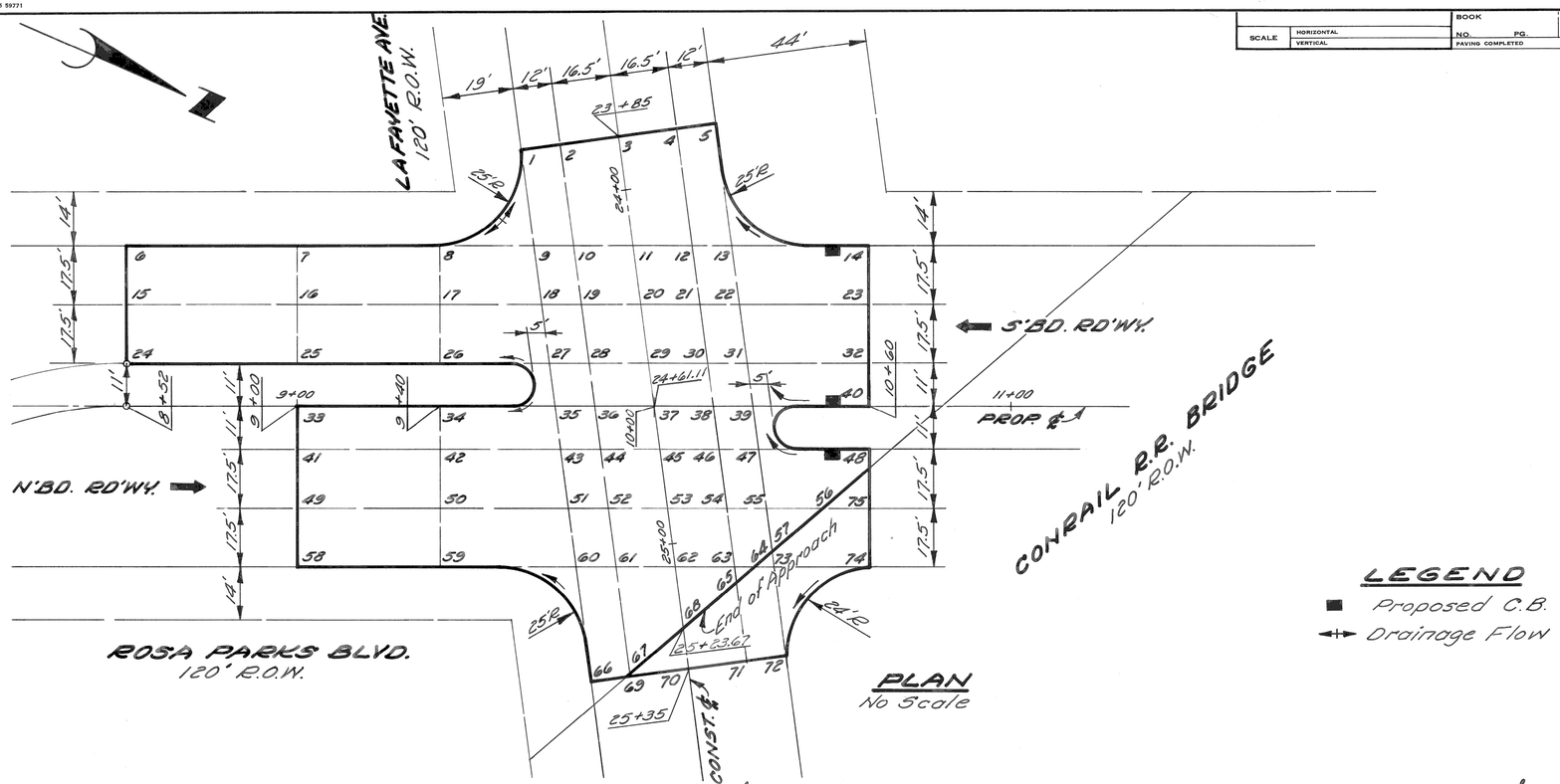
EDCO+ 127M 1-75 59771

SCALE	HORIZONTAL	BOOK	LEVEL
	VERTICAL	NO. PG.	DATE
		PAVING COMPLETED	

BEFORE STARTING CONSTRUCTION.....CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

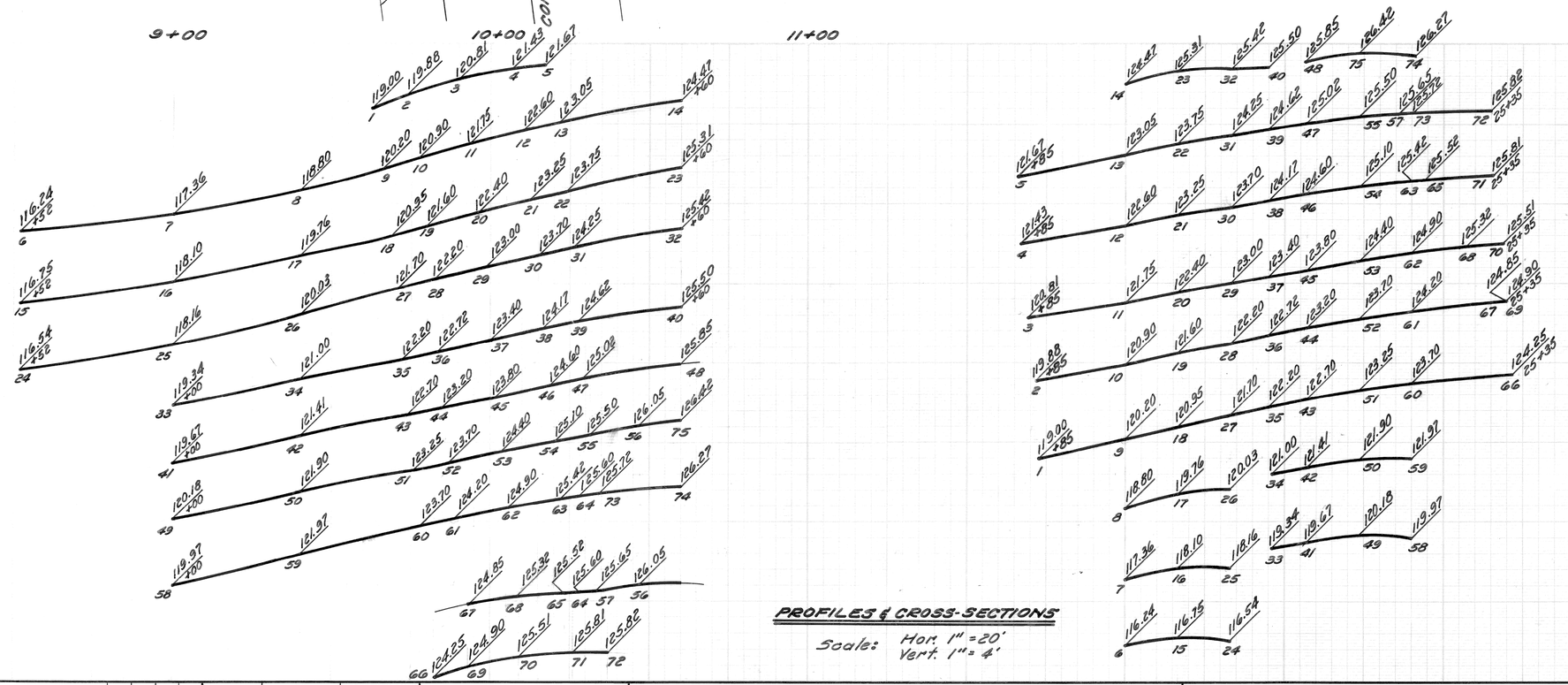
NOTE - FOR SYMBOLS Ⓐ ETC., SEE STANDARD DETAIL DRAWING NO C-4175

BENCH MARKS ELEV



PLAN
No Scale

LEGEND
- Proposed C.B.
- Drainage Flow



PROFILES & CROSS-SECTIONS
Scale: Hor. 1" = 20'
Vert. 1" = 4'

PLAN	MAB	W.B.	APPROVED:	
GRADE	MAB	R.P.	ENGINEER OF STREETS	
ESTIMATE			HIGHWAY ENGINEER	
FINAL				

DESCRIPTION | DR'N | CK'D | AP'VD | DATE
REVISIONS

CITY OF DETROIT
CITY ENGINEERING DIVISION - E.P.M.D.
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD.-LAFAYETTE AVE.
RECONSTRUCTION

DETAILED GRADES FOR ROSA PARKS BLVD AT LAFAYETTE

INDEX NO.
TOPO NO.
INDEXED

SHEET R12 OF R22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

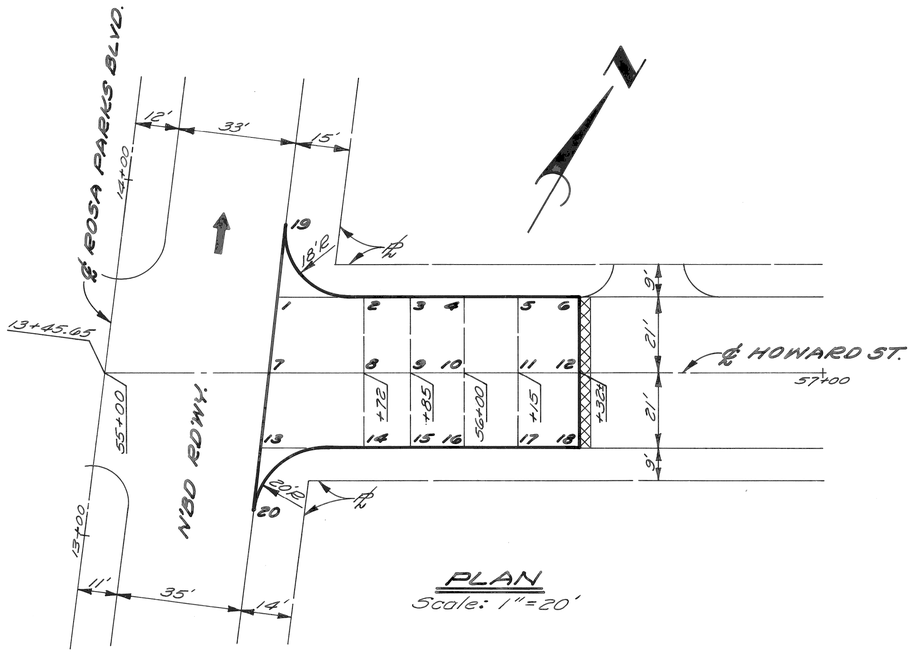
EDCO• 127M 1-75 59771

SCALE	HORIZONTAL	BOOK	LEVEL
	VERTICAL	NO. PG.	DATE
		PAVING COMPLETED	

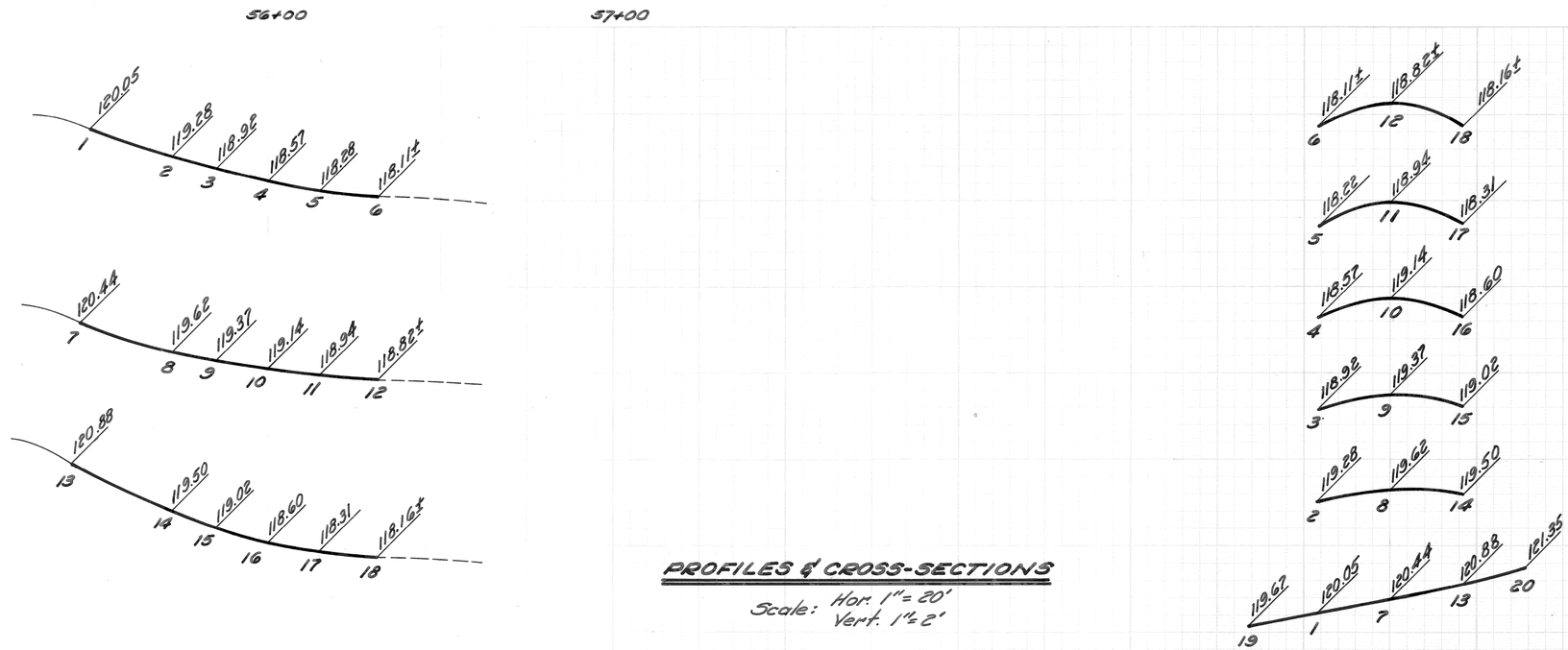
BEFORE STARTING CONSTRUCTION.....CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

NOTE - FOR SYMBOLS Ⓐ ETC., SEE STANDARD DETAIL DRAWING NO C-4375

BENCH MARKS ELEV



PLAN
Scale: 1"=20'



PROFILES & CROSS-SECTIONS
Scale: Hor. 1"=20'
Vert. 1"=2'

DESCRIPTION	DR'N	CK'D	AP'VD	DATE
REVISIONS				

	BY	CHECKED BY
PLAN	WAP	R.P.
GRADE	WAP	R.P.
ESTIMATE		
FINAL	CHECK	REVIEW

APPROVED:
ENGINEER OF STREETS
HIGHWAY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION - E.P.M.D.
BUREAUS OF STREETS AND HIGHWAYS

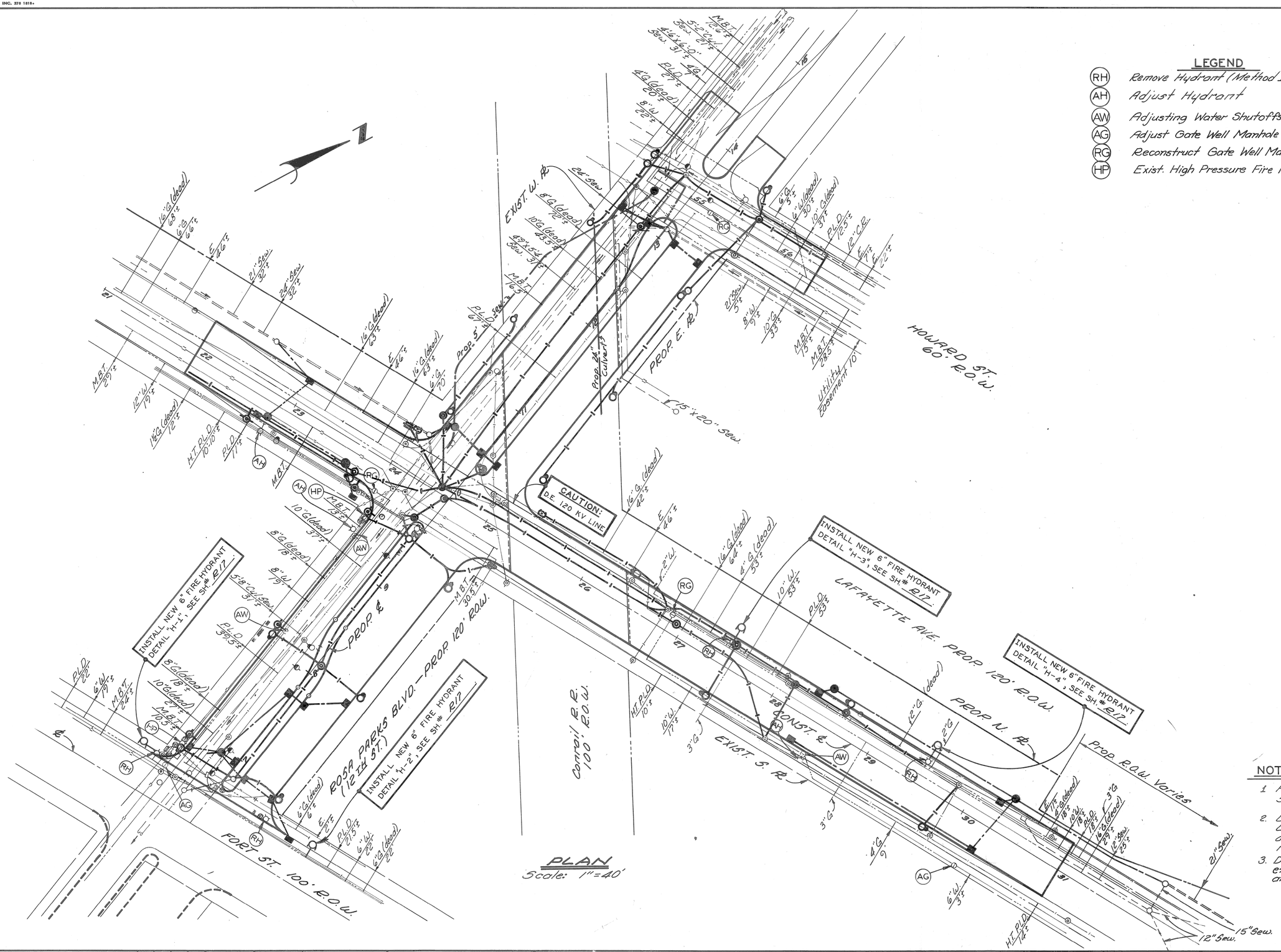
ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

DETAILED GRADES FOR
HOWARD ST. AT ROSA PARKS BLVD.

INDEX NO.
TOPO NO.
INDEXED

SHEET R 13 OF R 22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

R. CARROLL, INC. 378 1818



LEGEND

- (RH) Remove Hydrant (Method I or Method II)
- (AH) Adjust Hydrant
- (AW) Adjusting Water Shutoffs
- (AG) Adjust Gate Well Manhole Covers
- (RG) Reconstruct Gate Well Manhole
- (HP) Exist. High Pressure Fire Hydrant (See Note 3.)

NOTES:

1. For Utility Legend & Symbols, See Sh. # R13.
2. Locations of Existing Utility Lines are based on the best available records and are not guaranteed for accuracy.
3. Do not adjust H.P. Hydrant. Place expansion material around the hydrant and construct sidewalk as per plans.

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

PLAN
Scale: 1" = 40'

COOR'D	DESCRIPTION	DR'N	CK'D	AP'VD	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET					

REFERENCE DRAWINGS

DESIGNED BY	
DRAWN BY	M.S.
TRACED BY	
CHECKED BY	W. B.

APPROVED:
ENGINEER OF STREETS
HIGHWAY ENGINEER

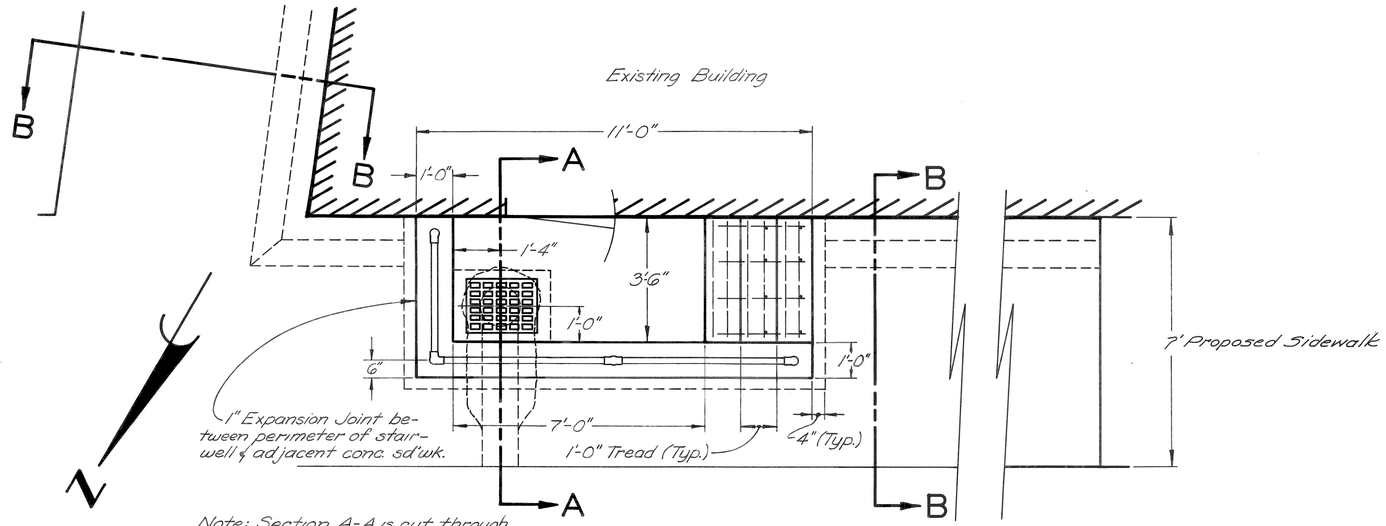
CITY OF DETROIT
CITY ENGINEERING DIVISION - EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

UTILITIES

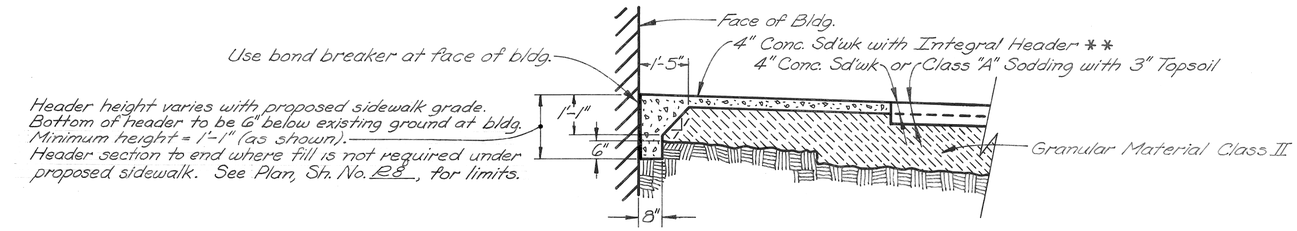
SHEET R14 OF R22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

R. CARROLL, INC. 328 1818+

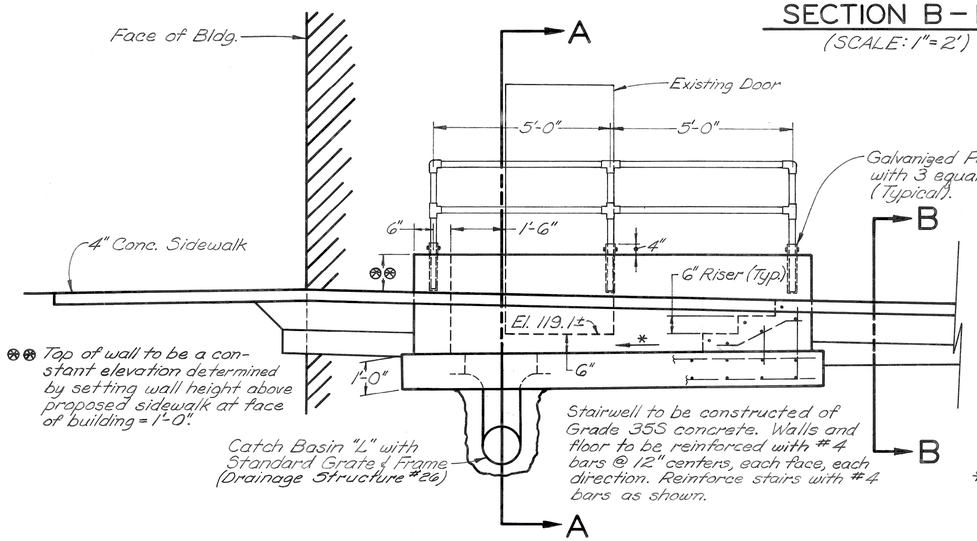


Note: Section A-A is cut through ℄ of proposed catch basin.

PLAN VIEW
(SCALE: 1"=2')

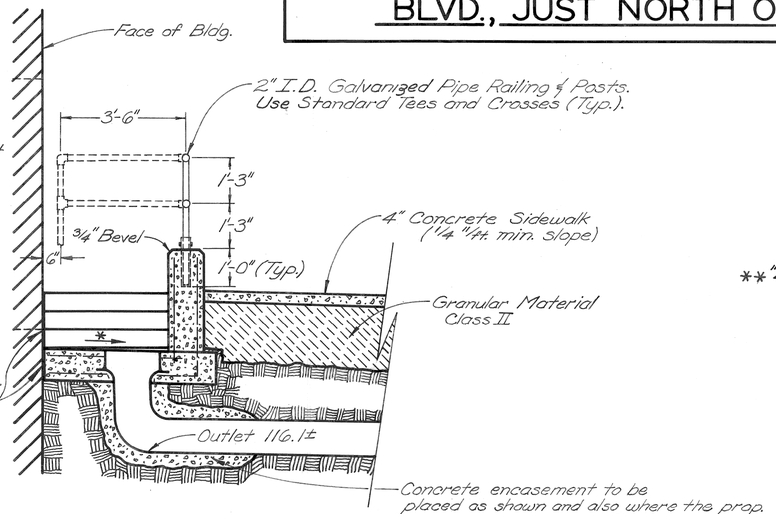


SECTION B-B
(SCALE: 1"=2')



⊗⊗ Top of wall to be a constant elevation determined by setting wall height above proposed sidewalk at face of building = 1'-0".

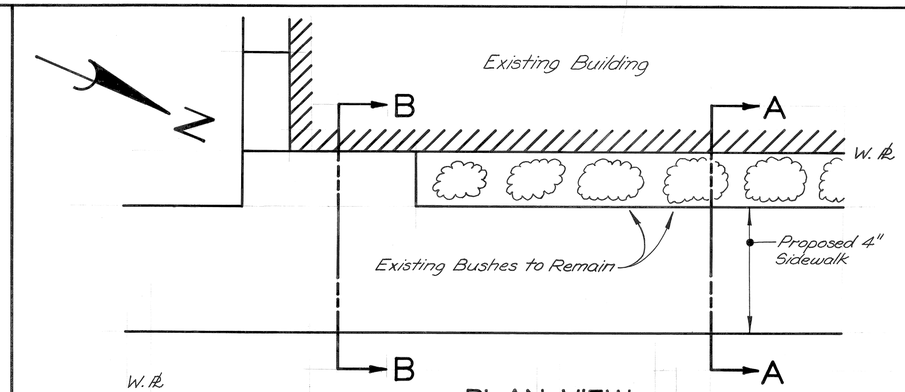
STAIRWELL AND SIDEWALK DETAIL - S.W. CORNER ROSA PARKS BLVD. AND LAFAYETTE AVE.



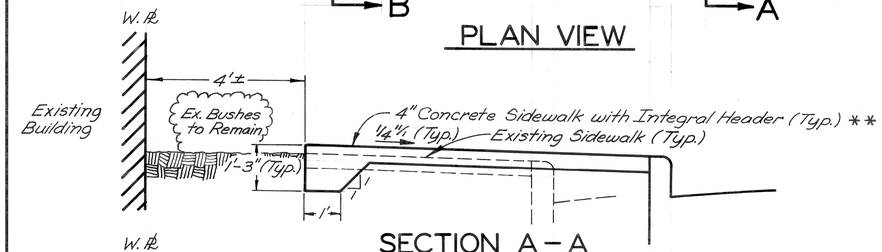
* Slope floor toward catch basin, 3/8"/ft.

SECTION A-A
(SCALE: 1"=2')

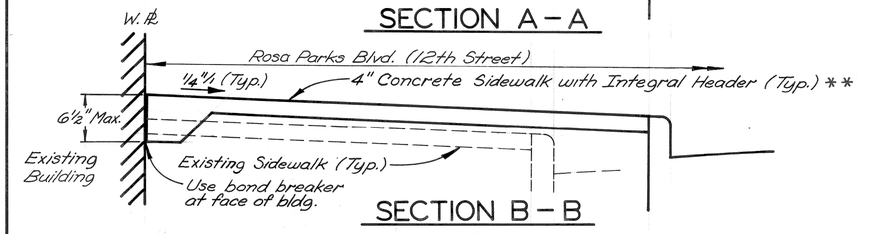
**"4" Concrete Sidewalk with Integral Header" to be paid for as "4" Concrete Sidewalk"



PLAN VIEW



SECTION A-A



SECTION B-B

SIDEWALK DETAIL - WEST SIDE OF ROSA PARKS BLVD., JUST NORTH OF HOWARD STREET

								REFERENCE DRAWINGS	DESIGNED BY	W.B.	APPROVED:
									DRAWN BY	W.B.	ENGINEER OF STREETS
									TRACED BY		HIGHWAY ENGINEER
COOR'D	DESCRIPTION	DR'N	CK'D	AP'VD	DATE				CHECKED BY	R.P./I.H.K.	
REVISIONS LOCATED BY COORDINATES ON SHEET											

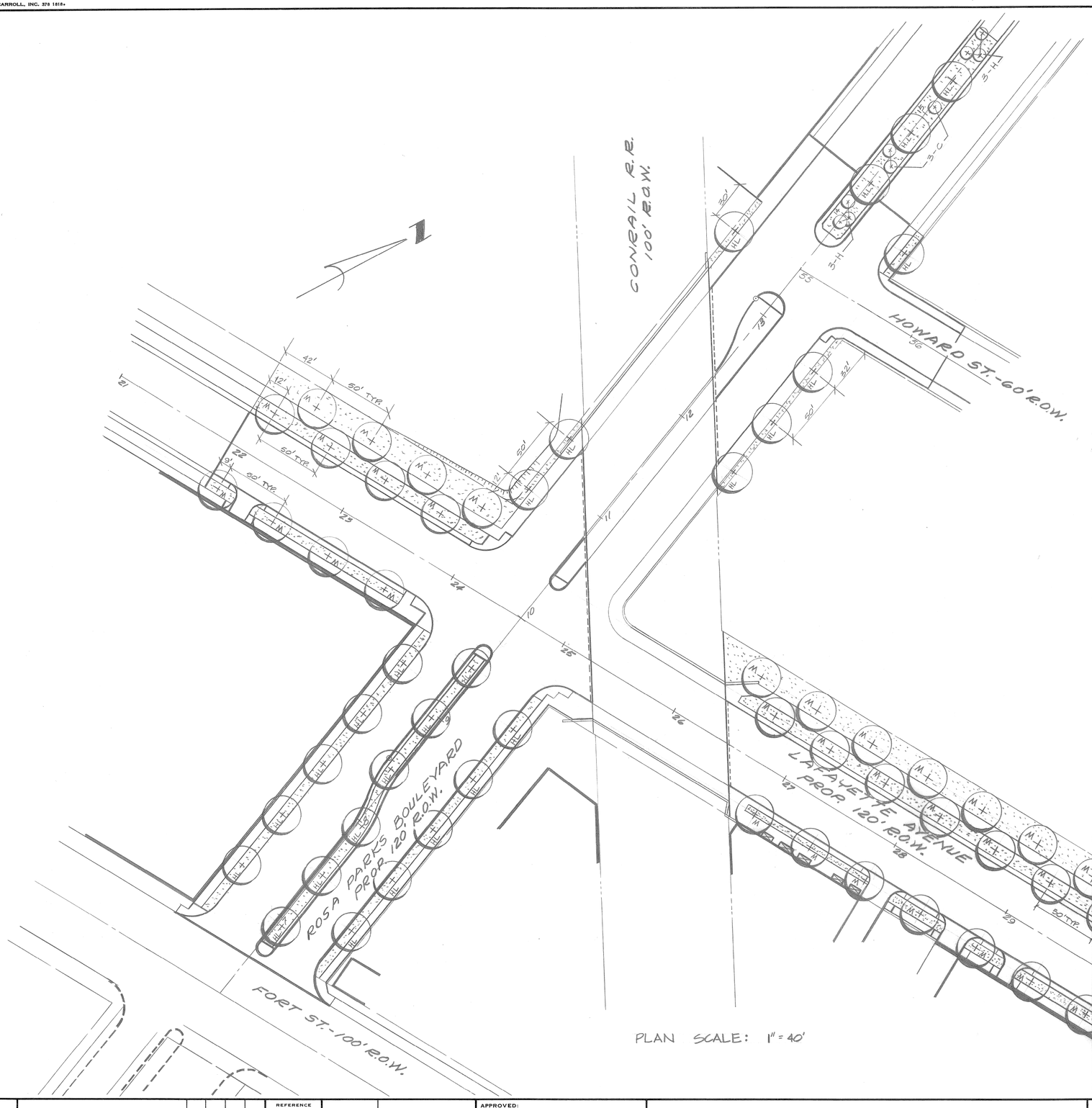
CITY OF DETROIT
CITY ENGINEERING DIVISION - EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. - LAFAYETTE AVE. RECONSTRUCTION

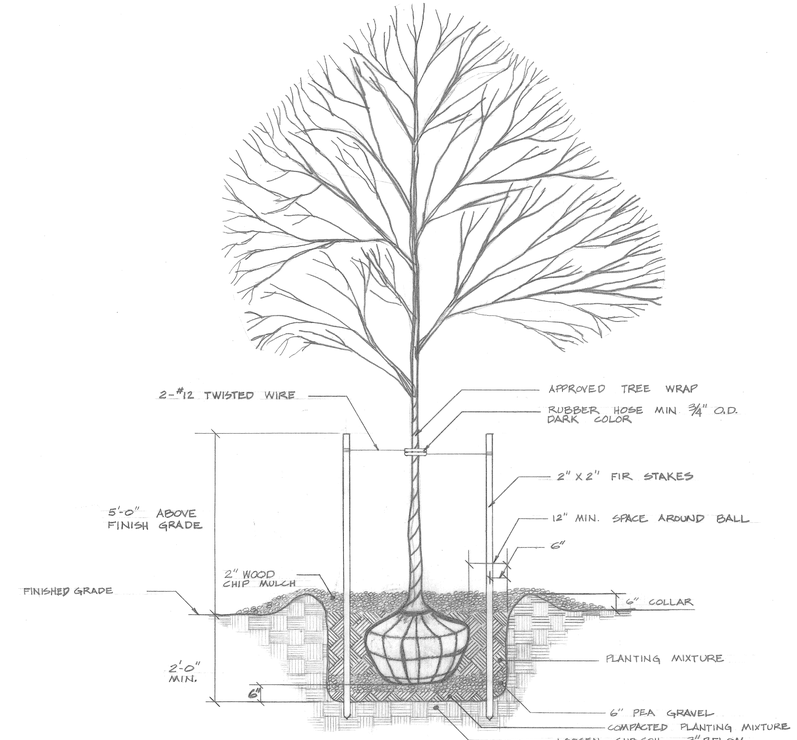
SPECIAL SIDEWALK AND STAIRWELL DETAILS

SHEET R 15 OF R 22 SHEETS
CONTRACT NO. 07110A
ASSIGNMENT NO.
DATE 10-79

R. CARROLL, INC. 378 1818



PLAN SCALE: 1" = 40'



PLANTING & STAKING DETAIL

(SHADE TREE 3½"-4" CALIPER)
(NO SCALE)

PLANT LIST

KEY	QUANT.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
HL.	26	GLEDITSIA TRICANTHOS 'SKYLINE'	SKYLINE HONEYLOCUST	3½"-4"	B&B
M.	38	ACER PLATANOIDES	NORWAY MAPLE	3½"-4"	"
H.	6	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	7'-8'	"
C.	3	MALUS FLORIBUNDA	JAPANESE FLOWERING CRAB APPLE	7'-8'	"

73 · TOTAL

NOTES:

PREPARED SOIL FOR TREE PLANTING IS CALCULATED AT 1 CU. YD/TREE. (INCIDENTAL TO TREES).

LANDSCAPE SYMBOLS:

+ — SHADE TREES

⊕ — ORNAMENTAL TREES

— LAWN AREAS

COOR'D	DESCRIPTION	DR'N	CK'D	AP'VD	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY

DRAWN BY W. PRUZINSKY

TRACED BY

CHECKED BY Edward F. Cliff

APPROVED:

ENGINEER OF STREETS

HIGHWAY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION · EPMD
BUREAUS OF STREETS AND HIGHWAYS

ROSA PARKS BLVD. – LAFAYETTE AVE.
RECONSTRUCTION

LANDSCAPE DEVELOPMENT PLAN

SHEET R 16 OF R 22 SHEETS

CONTRACT NO. 07110A

ASSIGNMENT NO.

DATE 10-79

GENERAL NOTES

Existing Water Mains, as shown, indicate approximate location only as shown by D.M.W.D records and no guarantee is made as to completeness or accuracy.

The locations and elevations of existing utilities are shown in accordance with available data. The Contractor shall expose these utilities, where required, to determine actual locations.

Other utilities may be making alterations to their existing systems in the vicinity of the Water Main construction shown on the plans. These utilities should be consulted for the latest information regarding the location of their facilities.

A minimum clearance of one foot vertically and three and one half feet horizontally shall be maintained between the Water Main and other utilities, unless otherwise shown on the plans or approved by the Engineer. If a conflict is indicated between the Water Main and any other utility, that utility should be consulted.

The location of Fire Hydrants, as shown, are approximate. D.F.D. will give exact location of Proposed Fire Hydrants prior to installation.

"Ductile Iron Pipe in sizes 3" through 16" is permitted as a part of the Cast Iron Pipe Specifications."

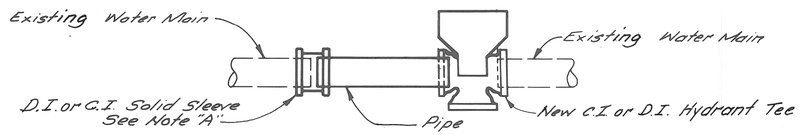
CONSTRUCTION NOTES

Encasements and Thrust Blocks shall be poured against undisturbed earth. Bottom 3" of Encasement may be poured separate from Encasement and used as a subfooting.

All Encasements and Thrust Blocks shall terminate at the face of pipe bells.

Removal of abandoned Water Mains as required for clearance to construct the Proposed Water Mains is incidental to Water Main Construction.

Sheeting and bracing, where required, shall be installed by the Contractor as incidental to Water Main const.



PLAN

DETAIL "A"

HYDRANT CONNECTION TO WATER MAIN

NO SCALE

SCHEDULE OF HYDRANT INSTALLATION ON EXISTING MAINS DETAILS H-1 THROUGH H-4 *							
DETAIL Nº	FROM SHEET Nº	SIZE OF NEW OR EX. HYD. TEE	6" PIPE FROM HYDRANT TO EX. MAIN		DETAIL "A"		
			LENGTH	TRENCH DETAIL	PIPE SIZE	X	TRENCH DETAIL
Ⓐ H-1		6"x6"	15'	12			
Ⓐ H-2		6"x6"	12'	12			
Ⓐ H-3		6"x 10"	20'	12			
Ⓐ Ⓑ H-4		6"x 10"	20'	12			

* Information herein is to be considered only as a guide. Final figures depend upon the exact location of the hydrant as determined by the Fire Department just prior to installation.

Ⓐ 6" Gate Valve & Gate Box shall be furnished & installed with Hydrant.

Ⓑ Caution: Ex. 120 KV D.E. has only 4'-7½ cover in this area.

NOTES FOR CONTRACTOR'S CONNECTIONS

Contractor shall cut and cap or plug existing Water Mains to remain in service where required in accordance with supplemental specifications.

4" Blow-off Assemblies, Plugs and Caps to be installed and/or removed by Contractor have not been shown.

Contractor shall install and later remove all temporary Plugs, Tees and Blow-off Assemblies.

Contractor shall furnish and install Pipe and Fittings necessary to complete the connections shown.

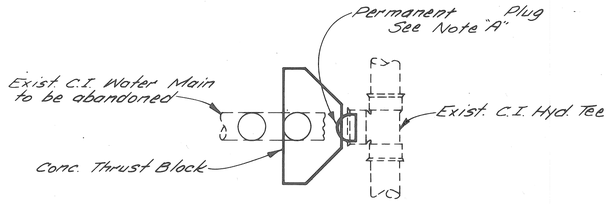
Contractor shall construct all Concrete Thrust Blocks and Gate Wells.

Contractor shall install all Temporary bracing for Water Main work.

It is not normally anticipated that bends requiring Thrust Blocks will be required for Connections unless otherwise shown.

NOTE "A"

Plugs and caps, temporary blow-offs, air valves, corporation stops, pipe jacks, solid sleeves, jointing material, bracing and blocking are incidental to Fire Hydrant Construction and will not be paid for separately.



PLAN

DETAIL "C"

DETAIL OF ABANDONMENT OF

EXISTING HYDRANT CONNECTION TO WATER MAIN

NO SCALE

PAY ITEMS	
Fire Hydrants	2 Each
Relocate Hydrant-Method I	2 Each
Remove Hydrant-Method I	1 Each
Remove Hydrant-Method II	2 Each
Adjust Hydrant	3 Each

All "C"-Details, Tees, Excavation, Backfill, & Thrust Blocks are incidental to the above pay items.

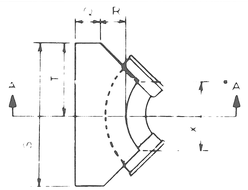
DESIGNED BY	I. H. K.	APPROVED: Allen Prager ENGINEER OF EXPRESSWAYS	CITY OF DETROIT CITY ENGINEERING DIVISION E.P.M.D.
DRAWN BY	Polito		
TRACED BY			
CHECKED BY	R.B.P.		

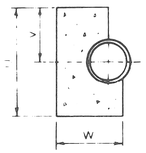
REVISIONS LOCATED BY COORDINATES ON SHEET

ROSA PARKS BLVD. – LAFAYETTE AVE.
RECONSTRUCTION

FIRE HYDRANTS
(CONTRACTOR'S CONNECTIONS)

SHEET R17 OF R22 SHEETS
PROJECT No. 07110A
ASSIGN No.
DATE 10-79

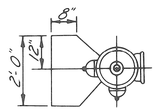


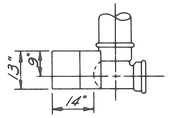


SCHEDULE OF THRUST BLOCK DIMENSIONS								
BEND SIZE	CODE							
	G	R	S	T	U	V	W	X
6"¢ 8" 90°	0' 9"	1' 0"	3' 4"	1' 8"	2' 6"	1' 3"	1' 11"	1' 2"
12" 90°	0' 9"	1' 4"	5' 6"	2' 9"	3' 0"	1' 6"	2' 4"	1' 8"
16" 90°	1' 0"	1' 8"	6' 0"	3' 0"	5' 0"	2' 6"	3' 0"	2' 8"
6"¢ 8" 45°	0' 9"	1' 0"	2' 4"	1' 2"	2' 0"	1' 0"	1' 11"	1' 4"
12" 45	0' 9"	1' 4	3' 6"	1' 9"	2' 6"	1' 3"	2' 4"	1' 4
16" 45°	1' 0"	1' 8"	5' 4"	2' 8"	3' 0"	1' 6"	3' 0"	2' 6
6,8"¢ 12 22½	0' 9"	1' 0"	2' 6"	1' 3"	2' 0"	1' 0"	2' 0"	1' 4"
16" 22½	1' 0"	1' 8"	3' 4"	1' 8"	2' 6"	1' 3	3' 0"	1' 2"

DETAIL OF STANDARD THRUST BLOCKS FOR BENDS

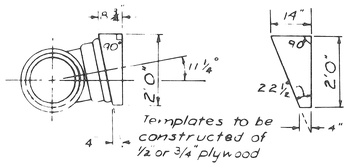
No Scale





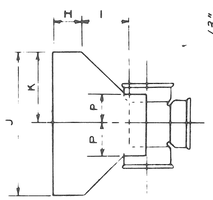
THRUST BLOCK FOR 6" HYDRANT

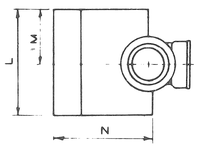
No Scale



TEMPLATE FOR SETTING TEES AT 11¼° & 22½° ANGLES

No Scale





SCHEDULE OF THRUST BLOCK DIMENSIONS								
TEE SIZE	CODE							
	H	I	J	K	L	M	N	P
8" x 8"	0' 9"	1' 0"	3' 0"	1' 6"	2' 0"	1' 0"	8" 2' 3"	8" 0' 6"
12" x 8"							12" 2' 5"	12" 0' 8"
16" x 8"							16" 2' 9"	16" 0' 6"
12" x 12"	0' 9"	1' 4"	4' 0"	2' 0"	3' 0	1' 6"	12" 2' 9"	8" 0' 8"
16" x 12"							16" 3' 1"	16" 0' 8"
16" x 16"	1' 0"	1' 8"	5' 0"	2' 6"	4' 0"	2' 0"	16" 3' 8"	16" 0' 11"

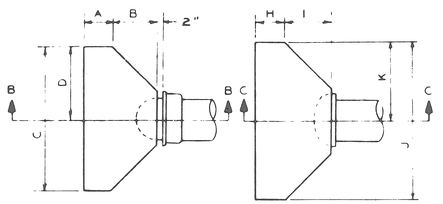
DETAIL OF STANDARD THRUST BLOCKS FOR TEES

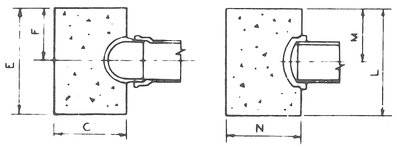
No Scale

NOTES

The bearing face of all thrust blocks shall be poured against undisturbed earth

Thrust Blocks will be required on all Bends 6 inches in Diameter or larger and greater than 11¼°.

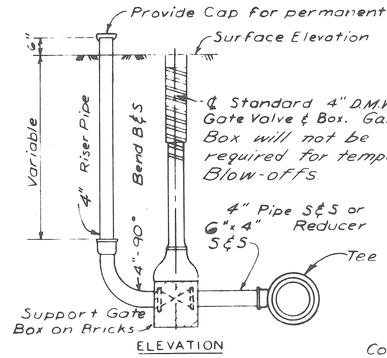




SCHEDULE OF THRUST BLOCK DIMENSIONS							
PLUG SIZE	CODE						
	A	B	C	D	E	F	G
6" & 8"	0' 9"	1' 2"	3' 0"	1' 6"	2' 0"	1' 0"	1' 11"
12"	0' 9"	1' 4"	4' 0"	2' 0"	3' 0"	1' 6"	2' 1
16"	1' 0"	1' 8"	5' 0"	2' 6"	4' 0"	2' 0"	2' 8"
CAP SIZE	CODE						
	H	I	J	K	L	M	N
6" & 8"	0' 9"	1' 2"	3' 0"	1' 6"	2' 0"	1' 0"	1' 11"
12"	0' 9	1' 4"	4' 0"	2' 0"	3' 0"	1' 6"	2' 1
16"	1' 0"	1' 8"	5' 0"	2' 6"	4' 0"	2' 0"	2' 8"

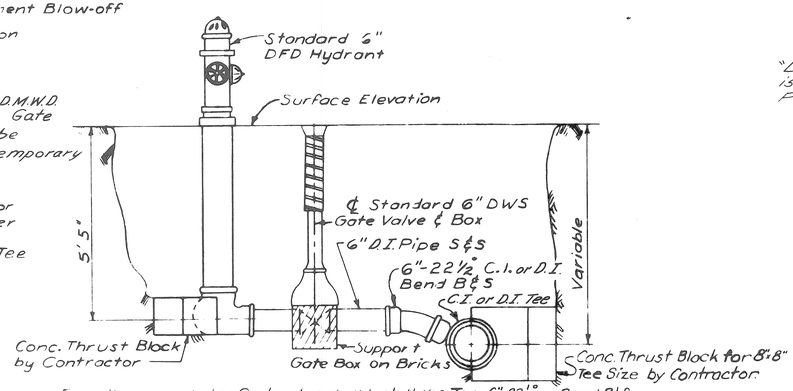
DETAIL OF STANDARD THRUST BLOCKS FOR PLUGS & CAPS

No Scale



DETAIL OF 4" BLOW-OFF

No Scale



From the new main the Contractor shall install the Tee, 6"-22½° Bend B&S, 6" Pipe, 6" D.M.W.D. Gate Valve & Box, 6" Pipe, Concrete Thrust Blocks, and Hydrant.

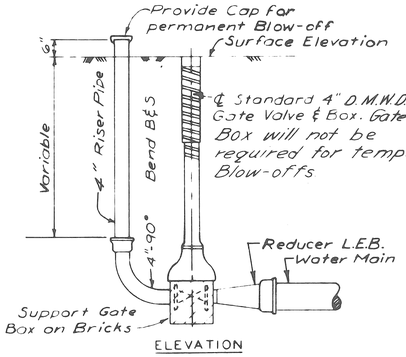
From any existing main the complete Hydrant installation shall be done by the Contractor.

Hydrants to be a minimum of 6' behind Curb, unless otherwise noted on the drawings.

Dimensions given from the Curb are from Pavement Joint line which is at face of Curb.

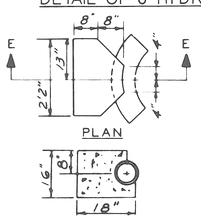
DETAIL OF 6" HYDRANT INSTALLATION

No Scale



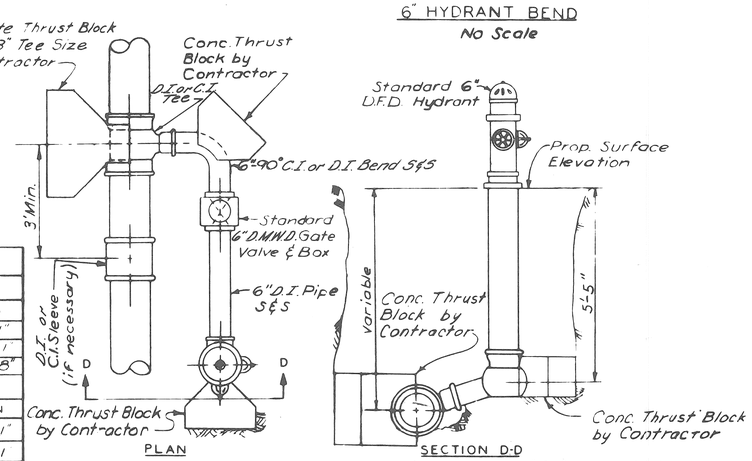
DETAIL OF 4" BLOW-OFF

No Scale



THRUST BLOCK FOR 6" HYDRANT BEND

No Scale



From the new main the Contractor shall install the Tee, 6"-90° Bend S.&S., 6" Pipe, 6" D.M.W.D. Gate Valve & Box, 6" Pipe Concrete Thrust Blocks and Hydrant.

From any existing main the complete Hydrant installation shall be done by the Contractor.

Hydrants to be a minimum of 6' behind the Curb, unless otherwise shown on the drawings.

Dimensions given from Curb are from Pavement Joint line which is at face of Curb

DETAIL OF 6" HYDRANT INSTALLATION

No Scale

GENERAL NOTES

"Ductile Iron Pipe in sizes 3" through 16" is permitted as a part of the Cast Iron Pipe Specifications."

PROJECT NO. 07110A	ASSIGN No.

FIRE HYDRANT

MISCELLANEOUS DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DESIGN CHECK	RBP
DRAWN BY	MP
TRACED BY	
CHECKED BY	JD

10-79

COLOR	SYMBOL	DESCRIPTION
BLACK		PROPERTY AND LOT LINES
"		PROPOSED CURB LINES AND HEADERS AT RETURNS
"		EXISTING CURB LINES OR EDGE OF PAVEMENT
"		PROPOSED CURB OR PAVING ON INTERSECTING STREET
"		PROPOSED SEWER TO CATCH BASINS
	12"CR INV. ELEV 15"CR	EXISTING LATERAL SEWERS
		EXISTING PUBLIC SEWERS
		EXISTING GAS LINES
"		EXISTING WATER LINES
BLACK	CURB LINE / CURB LINE — ELEV OF SEWER INVERT	PROPOSED C.B. M.H. & INLET SEWER
"	ELEV	EXISTING C.B. M.H. & INLET SEWERS
"		PROPOSED C.B. M.H. & INLET SEWERS ON INTERSECTING STREETS

SYMBOL	DESCRIPTION
	SEWER MANHOLE
	P.L.C. MANHOLE / P.L.C. MANHOLE
	WATER MANHOLE OR GRATE
	GAS MANHOLE OR GRATE
	WESTERN UNION MANHOLE
	MICHIGAN BELL MANHOLE
	EDISON STEAM MANHOLE
	EDISON ELECTRIC MANHOLE
	FIRE DEPT. MANHOLE
	POLICE DEPT. MANHOLE
	D.S.R. MANHOLE
	FIRE DEPT. STANDARD HYDRANT
	FIRE DEPT. HIGH PRESSURE HYDRANT
	FIRE DEPT. CALL BOX
	FIRE DEPT. HIGH PRESSURE MANHOLE
	POLICE DEPT. CALL BOX
	P.L.C. LIGHT POLE
	P.L.C. POLE
	TELEPHONE POLE
	EDISON POLE
	TRAFFIC CONTROL BOX

SYMBOL	DESCRIPTION
	STREET SIGN POST
	CATCH BASIN
(W)	WATER METER
(-)	WATER SHUT OFF
(+)	GAS SHUT-OFF
	GAS DRIP
	DRAIN OR VENT
	GUY POLE
	MAIL BOX
	AREAWAY OR COAL CHUTE
	FLAG POLE
	SPRINKLER BOX
	DEAD MANHOLE
	TREE
	P.L.C. & F.D. MANHOLE FILLED WITH SAND
	TRACK DRAIN
	TRAFFIC SIGN POST
(2)	TRAFFIC SIGNAL LIGHT
	TRAFFIC SIGNAL ON LIGHT POST
	D.S.R. DANGER PLATE
	R.R. SIGNAL CONTROL BOX

SYMBOL	DESCRIPTION
	DETROIT EDISON ELECTRIC CONDUIT
	DETROIT EDISON STEAM CONDUIT
	WESTERN UNION DUCTS
	MICHIGAN BELL TELEPHONE DUCTS
	P.L.C. CONDUITS
	DETROIT FIRE OR POLICE DEPT. CONDUITS (P.L.C. COMMUNICATIONS)

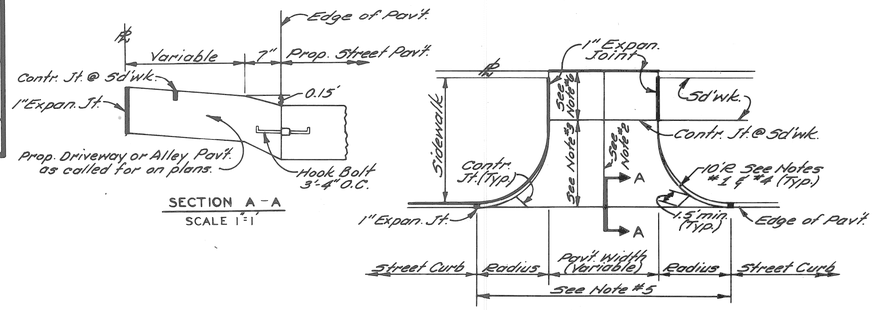
DESIGNED BY
DRAWN BY T. KANDA
TRACED BY T.K.
CHECKED BY M. Kawada

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF DESIGN
PAVING
DETAIL NO. 25

STANDARD SYMBOLS FOR UTILITIES

SCALE NO SCALE
DATE
DWG. NO. C-902-A

REVISIONS

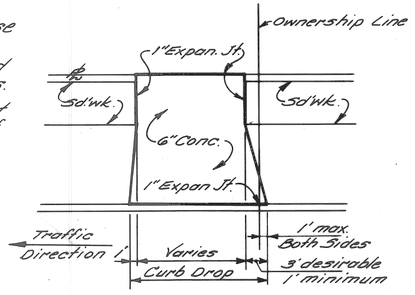


SECTION A-A
SCALE 1"=1'

COMMERCIAL DRIVEWAY OR ALLEY DETAIL
SCALE 1"=10'

GENERAL NOTES
COMMERCIAL DRIVEWAYS & ALLEYS

1. Transition edge of driveway or alley from curb at the street to no curb at the end of the driveway or alley radius.
2. Where driveway or alley exceeds 15' in width a contraction joint shall be placed longitudinally along ℄.
3. When distance exceeds 15', a transverse contraction joint will be required.
4. Radius 10' unless otherwise directed by the Engineer, or as shown on plans.
5. All work & materials reqd to construct the driveway or alley between the end of returns will be paid for as Concrete Pavement of the specified thickness.
6. Minimum & Maximum Slopes of 1/4" /ft. & 3/4" /ft. shall be used in the sidewalk area.



RESIDENTIAL DRIVEWAY DETAIL
SCALE 1"=10'

REVISIONS — LOCATED BY COORDINATES ON SHEET

DESIGNED BY
DRAWN BY J.R.D.
TRACED BY
CHECKED BY RBH

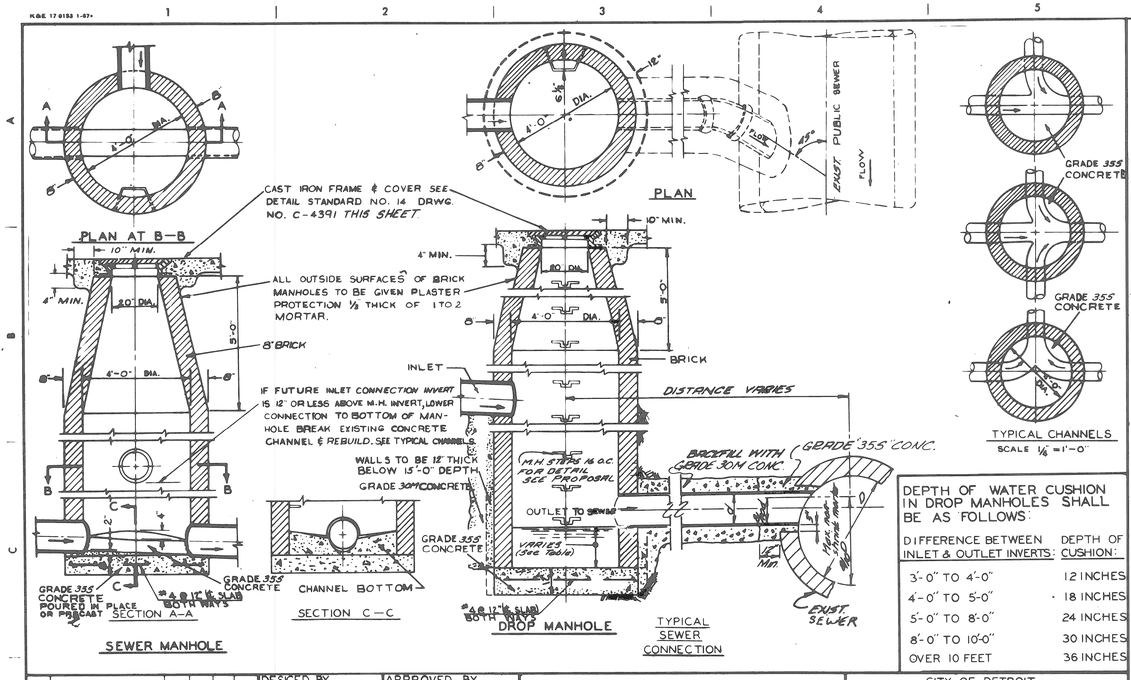
APPROVED:
ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
CITY ENGINEERING DIVISION
E.P.M.D.

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

SPECIAL STANDARDS & SPECIAL DETAILS

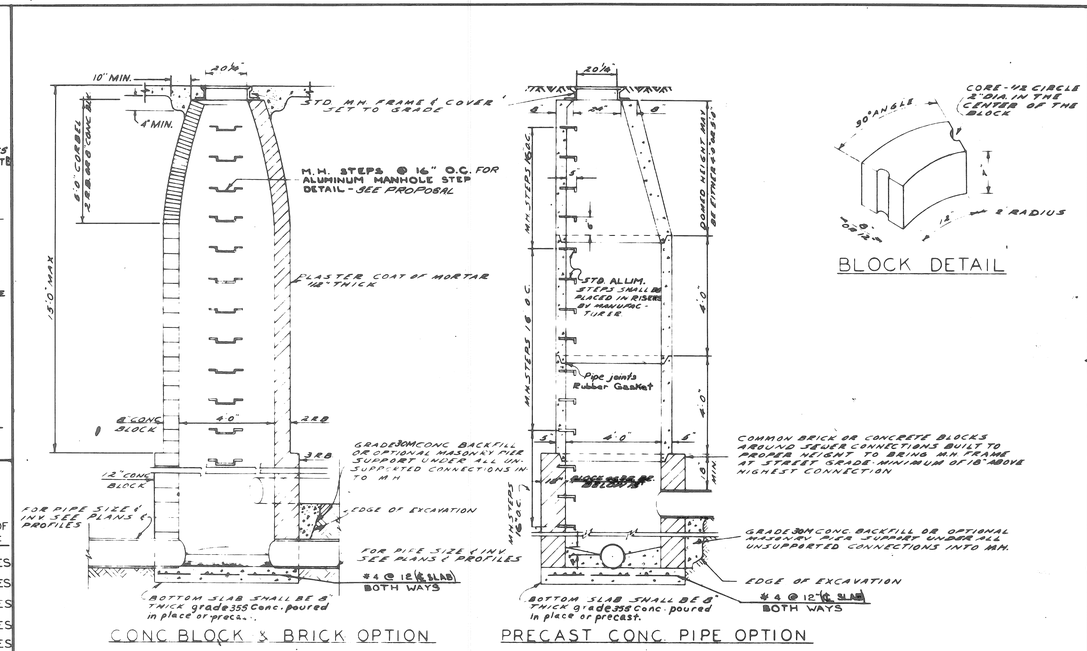
SHEET R19 OF R22 SHEETS
CONTRACT NO 07110A
ASSIGNMENT No. A.O
DATE 10-79



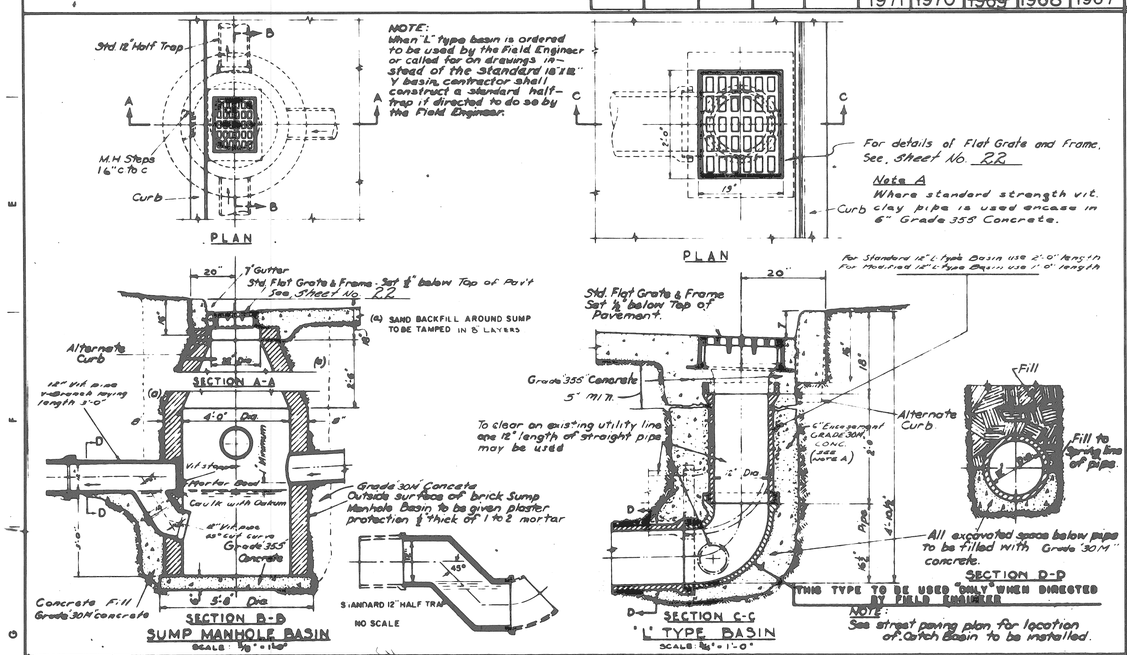
DEPTH OF WATER CUSHION IN DROP MANHOLES SHALL BE AS FOLLOWS:	
DIFFERENCE BETWEEN INLET & OUTLET INVERTS:	DEPTH OF CUSHION:
3'-0" TO 4'-0"	12 INCHES
4'-0" TO 5'-0"	18 INCHES
5'-0" TO 8'-0"	24 INCHES
8'-0" TO 10'-0"	30 INCHES
OVER 10 FEET	36 INCHES

DESIGNED BY	APPROVED BY	DETAILS OF STANDARD SEWER & DROP MANHOLES	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN BY J. Clark	ENGINEER OF STREETS		
TRACED BY			
CHECKED BY	ASST. CITY ENGINEER	BOOK NO. PG. SCALE 3/8" = 1'-0" DATE: 8-27-66	DETAIL STANDARD NO. 10 DWG. NO. C-4387
	CITY ENGINEER		1971 ~~1970~~ ~~1969~~ ~~1968~~ ~~1967~~

Revised M.H. Steps & Base Slab — J.C.G.B. — N.R.L. — 1-28-71
Revised bottom slab & steps — J.C.G.B. — N.R.L. — 1-28-71
Changed Title — J.C. — N.R.L. — 11-1-68
DESCRIPTION — DRW. — CKD. — APR. — DATE
REVISIONS

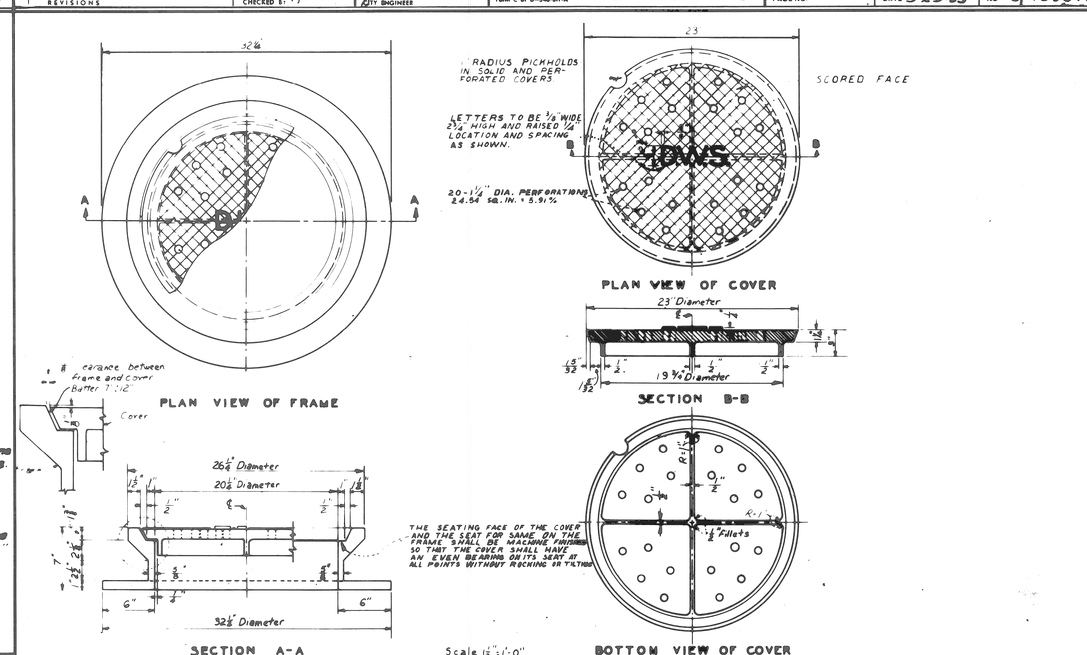


DESIGNED BY	APPROVED	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN	STD SEWER MANHOLES CONSTRUCTION ALTERNATES
DRAWN BY T.P. MIRIANI	THE BUREAU OF STREETS		
TRACED BY			
CHECKED BY Kawwas	CITY ENGINEER	Form C of D-346 SH-A DETAIL STANDARD NO. 18	BOOK NO. / PAGE NO. / SCALE NONE / DATE 3-28-63 / DRG. NO. C-4395A



DESIGNED BY	APPROVED	TYPICAL SUMP MANHOLE & 'L' TYPE CATCH BASINS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN BY	ENGINEER OF STREETS		
TRACED BY	ASST. CITY ENGINEER		
CHECKED BY Kawwas	CITY ENGINEER	BOOK NO. — PG. — SCALE AS SHOWN DATE MAR. 5, 1959	DETAIL STANDARD NO. 12 DWG. NO. C-4396
		1971 ~~1970~~ ~~1969~~ ~~1968~~ ~~1967~~ ~~1966~~ ~~1965~~ ~~1964~~ ~~1963~~ ~~1962~~ ~~1961~~ ~~1960~~	

Revised M.H. Steps — J.C. — G.B. — N.R.L. — 10-27-71
DESCRIPTION — DRW. — CKD. — APR. — DATE
REVISIONS



DESIGNED BY	APPROVED	DETAILS OF STANDARD - MANHOLE FRAME AND COVER -	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN Erickson	ENGINEER OF STREETS		
TRACED BY	ASST. CITY ENGINEER		
CHECKED Kawwas	CITY ENGINEER	BOOK NO. / SCALE: AS SHOWN / DATE: FEB. 4, 1966	DWG. No. C.43

Revised Detail from Cover — J.C. — G.B. — N.R.L. — 11-8-71
DESCRIPTION — DRW. — CKD. — APR. — DATE
REVISIONS

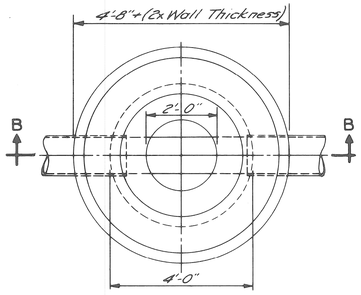
REFERENCE DRAWINGS	DESIGNED BY	APPROVED:	CITY OF DETROIT CITY ENGINEERING DIVISION E. P. M. D.
	DRAWN BY		
	TRACED BY		
	CHECKED BY	CITY ENGINEER	

DESCRIPTION — DRN. — CK'D — APV'D — DATE
REVISIONS LOCATED BY COORDINATES ON SHEET

ROSA PARKS BLVD. - LAFAYETTE AVE.
RECONSTRUCTION

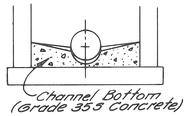
SPECIAL DETAILS

SHEET R20 OF R22 SHEETS
CONTRACT No. 07110A
ASSIG.
DATE 10-79

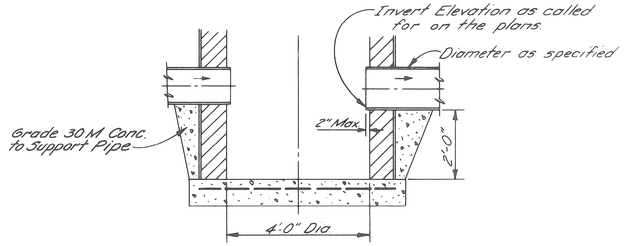


PLAN VIEW

NOTE "A"
Wall thickness below a depth of 15 feet shall be 12 inches.

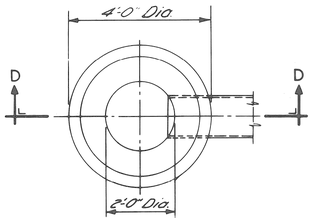


SECTION C-C



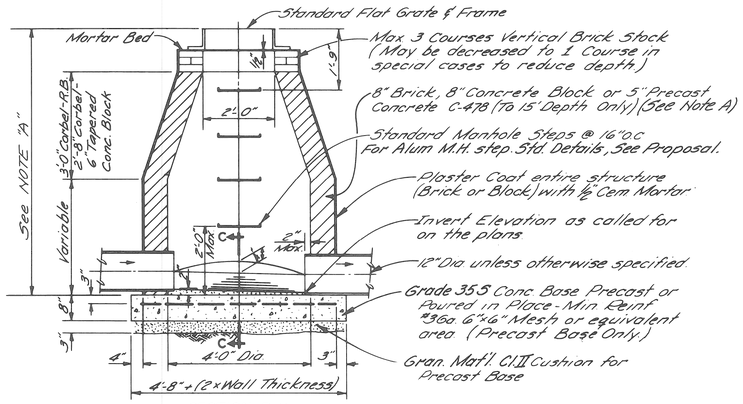
DETAIL OF SUMP FOR CATCH BASIN "B"

NO SCALE



PLAN VIEW

NOTE:
Catch Basin "A" will be used only when outletting to a Catch Basin "B"

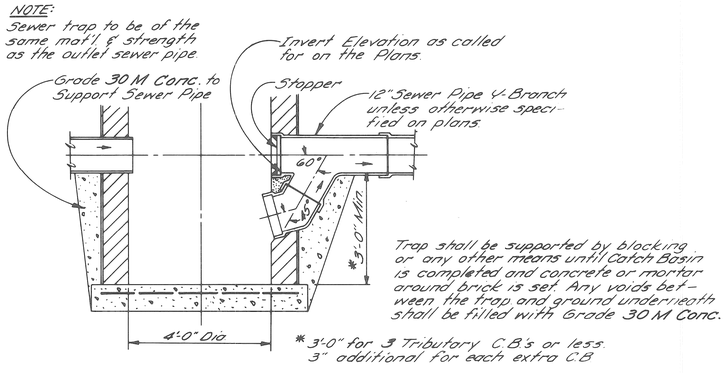


SECTION B-B

CATCH BASIN "B"

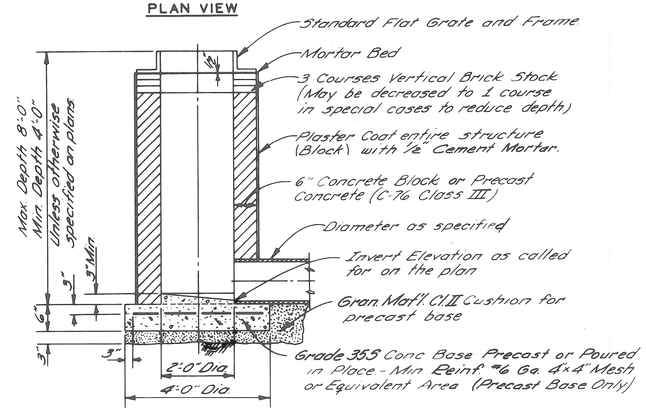
NO SCALE

NOTE:
Sewer trap to be of the same mat'l & strength as the outlet sewer pipe.



DETAIL OF TRAP FOR CATCH BASIN "B"

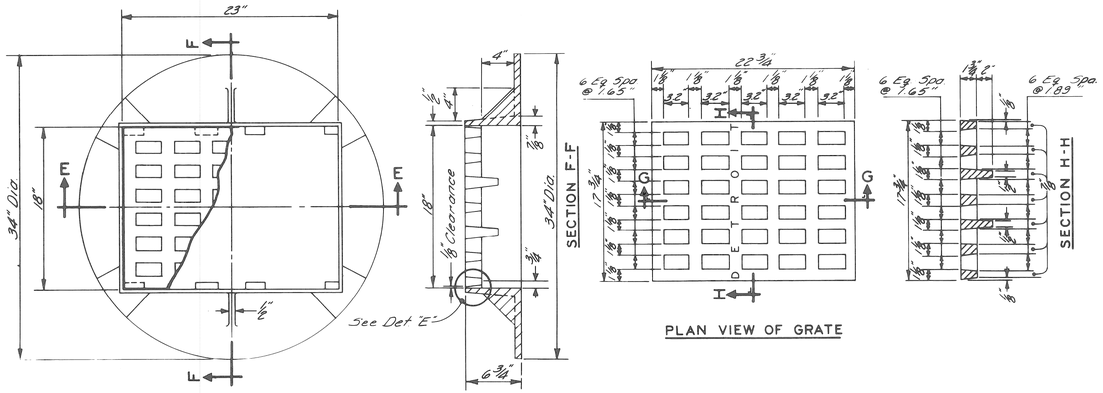
NO SCALE



SECTION D-D

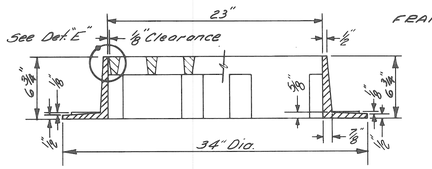
CATCH BASIN "A"

NO SCALE

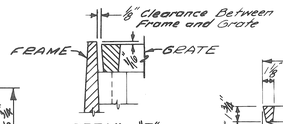


PLAN VIEW OF FRAME

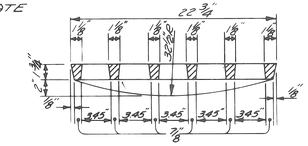
PLAN VIEW OF GRATE



SECTION E-E



DETAIL "E"



SECTION G-G

STANDARD FLAT GRATE AND FRAME

NO SCALE

GENERAL NOTES

1. The materials & workmanship shall be in accordance with the current "Standard Specifications".
2. Center of Catch Basin shall be 20 inches from back of curb.
3. All sizes & flow lines of pipe, and elevations for top & bottom of structures shall be determined from the plans or construction requirements.
   The bell shall be removed from the first length of outlet pipe projecting through the wall of the structures.
   When any structure is constructed of precast concrete or concrete block, the top of the masonry shall be left sufficiently low to permit proper adjustment of cover to grade by the use of mortar or bricks as directed by the Engineer.
4. A Trap, as detailed on this sheet, shall be placed where called for in the outlet sewer line of Catch Basins "B".
   This trap shall be set into the masonry wall as shown on the detail. The space between the faces of the wall & the trap shall be completely filled with cement, mortar or concrete, so as to hold Trap securely in place.
   The Traps will be paid for separately at the Contract Unit Price each, which price shall include the extra catch basin construction required and for furnishing and installing the trap.
5. A plaster coat of mortar 1/2 inch in thickness shall be applied to the outer surface of the structure as shown. A 1/2 inch cement plaster coat shall be placed on the inside of all sumps.
6. Contractor shall verify elevations of existing utilities to enable construction to indicated elevations shown on drawings. If necessary, invert elevations shown on the drawings may be altered in the field to clear existing utilities. Such alterations, upward or downward, shall be at no change in contract price.
7. When precast concrete pipe sections are used for catch basins, either a section of the inlet and outlet pipes or an opening or eye for the inlet & outlet pipes shall be cast into the wall of the catch basin pipe when it is being manufactured. Eyes in precast pipe sections shall be furnished to accommodate a flexible joint connection such as Press-Wedge by Press Seal Gasket Corp or Res-Seal by Scales Mfg. Corp.

DESCRIPTION	DRN.	CKD.	APVD.	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET				

REFERENCE DRAWINGS

DESIGNED BY	
DRAWN BY	M. POLITO
TRACED BY	
CHECKED BY	D. MILZ

APPROVED:
John Erickson — ENGINEER OF STREETS
Allen E. Jaeger — ENGINEER OF EXPRESSWAYS
W. R. Bennett — HEAD CIVIL ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION
E.P.M.D.

DETAILS OF STANDARD CATCH BASINS "A" & "B" AND FLAT GRATE & FRAME

SHEET R21 OF R22 SHEETS
CONTRACT No. 07110A
ASSIGN. NO.
DATE 10-79

QUANTITY SHEET – E

ROSA PARKS BLVD. - LAFAYETTE AVE. RECONSTRUCTION — AS PER PLANS

ITEMS	TOTALS	UNITS	TYPICAL CROSS-SECTIONS (R1-R2)	CONSTRUCTION SEQUENCE (R4-R5)	REMOVALS (R6)	PLAN (R8)	HOWARD ST. SIDEWALK CONSTRUCTION (R7)	UTILITIES (R14)	LANDSCAPE DEVELOPMENT PLAN (R16)	FIRE HYDRANTS (R17)	WATER & SEWER ALTERATIONS (WS-1)
Fuel	1	Lump Sum	1								
Removing Trees 8"-18" Dia.	2	Each			2						
Removing Pavement	8,845	S.Y.			8,630		215				
Removing Curb	270	L.F.					270				
Removing Sidewalk	2,672	S.Y.	40		2,375		257				
Basement Cleanout	251	C.Y.	50		201						
Abandoning Drainage Structures	3	Each			3						
Removing Masonry and Concrete Structures	120	C.Y.			120						
Removing Old Pavement (Patching)	7	S.Y.			7						
Removing Bituminous Surface	238	S.Y.				182	56				
Earth Excavation	2,872	C.Y.				2,870	2				
Embankment-Granular Material Class II	3,425	C.Y.				3,420	5				
Subgrade Undercutting Type II	200	C.Y.	200								
Bituminous Approaches	36	Ton			2	34					
24" Sewer, C-76-V, (Trench Detail 9)	35	L.F.									35
Remove Hydrant-Method II	2	Each								2	
Adjusting Water Shutoffs	3	Each						3			
Edge Trimming	521	L.F.					521				
Concrete Pav't.-Nonreint-8"	188	S.Y.				188					
Concrete Pav't.-Reint.-9" with Integral Curb	10,560	S.Y.				10,560					
Cement	5	Ton				5					
60" Sewer C-76-V Encased (Trench Detail 8)	53	L.F.									53
Conc. Pav't. Patching, Type NS, 9"-Nonreint.	7	S.Y.			7						
12" Sewer C-76-III (Trench Detail 8)	391	L.F.				391					
12" Sewer C-76-III (Trench Detail 9)	653	L.F.				653					
12" Sewer C-76-IV (Trench Detail 8)	26	L.F.				26					
15" Sewer C-76-IV (Trench Detail 8)	155	L.F.				155					
12" Sewer C-76-IV (Trench Detail 9)	56	L.F.				56					
60" Sewer C-76-V Encased (Trench Detail 9)	268	L.F.									268
15" Sewer C-76-IV (Trench Detail 9)	13	L.F.				13					
Catch Basin "B"	15	Each				15					
Catch Basin "A"	8	Each				8					
Manhole-Drop	1	Each				1					
Manhole-Standard	1	Each				1					
Catch Basin "L"	2	Each				2					
D.W.S. Manhole	2	Each									2
12" Sewer Taps	4	Each				4					
15" Sewer Taps	2	Each				2					
Adjusting Drainage Structure Covers	2	Each				2					
Reconstructing Drainage Structures	2	Each				2					
12" Sewer Traps	11	Each				11					
Integral Curb & Sidewalk	502	L.F.					502				
Reinforced Concrete Transition	2	Each									2
4" Concrete Sidewalk	29,024	S.F.	360			25,652	3,012				
6" Concrete Sidewalk	2,197	S.F.				2,089	108				
Sidewalk Ramp-Type 1	84	S.F.				84					
Sidewalk Ramp-Type 3	224	S.F.				224					
Lighted Arrow, Type A-Furnished	2	Each		2							
Lighted Arrow, Type A-Operated	2	Each		2							
8" Water Main, Trench Detail 12	47	L.F.									47
Barricade, Type III	3	Each		3							
Barricade, Type II (Drums), Lighted-Furnished	99	Each		99							
Barricade, Type II (Drums), Lighted-Operated	66	Each		66							
Drum Guide Rail	150	L.F.		150							
Temporary Concrete Barrier	340	L.F.		340							
Minor Traffic Devices	1	Lump Sum		1							
Sign Type B Temporary	758	S.F.		758							
Acer Platanoides, 3½"-4" B&B	38	Each							38		
Gleditsia Tricanthos Inermis Skyline, 3½"-4" B&B	26	Each							26		
Malus Floribunda 7'-8', B&B	3	Each							3		
Crataegus Phaenopyrum 7'-8', B&B	6	Each							6		
Class "A" Sodding	5,209	S.Y.				5,209					
Water	15	Unit				15					
Remove Hydrant-Method I	1	Each								1	
Topsoil Surface-3"	5,209	S.Y.				5,209					
Removing Heavy Reinforced Foundations	50	C.Y.			50						
Fire Hydrant	2	Each								2	
Relocate Hydrant-Method I	2	Each								2	
Reconstruct Gate Well Manhole	3	Each						3			
Removing Above Ground Debris	1	Lump Sum			1						
8" Encased Water Main, Trench Detail 14 Modified	15	L.F.									15
Adjust Hydrant	3	Each								3	
Adjust Gate Well Manhole Covers	2	Each						2			
On The Job Training	3	Each	3								
Stairwell	1	Each				1					
Mobilization	1	Lump Sum	1								
Site Preparation	1	Lump Sum							1		
Sealing Building Window Openings	1	Lump Sum			1						
24" Sewer Tap	1	Each									1
Abandoning of Rosa Parks Sewer	1	Lump Sum									1
Field Office	24	Month	24								

ROSA PARKS BLVD. - LAFAYETTE AVE. RECONSTRUCTION — AS CONSTRUCTED

ITEMS	TOTALS	UNITS	TYPICAL CROSS-SECTIONS (R1-R2)	CONSTRUCTION SEQUENCE (R4-R5)	REMOVALS (R6)	PLAN (R8)	HOWARD ST. SIDEWALK CONSTRUCTION (R7)	UTILITIES (R14)	LANDSCAPE DEVELOPMENT PLAN (R16)	FIRE HYDRANTS (R17)	WATER & SEWER ALTERATIONS (WS-1)
Fuel		Lump Sum									
Removing Trees 8"-18" Dia.		Each									
Removing Pavement		S.Y.									
Removing Curb		L.F.									
Removing Sidewalk		S.Y.									
Basement Cleanout		C.Y.									
Abandoning Drainage Structures		Each									
Removing Masonry and Concrete Structures		C.Y.									
Removing Old Pavement (Patching)		S.Y.									
Removing Bituminous Surface		S.Y.									
Earth Excavation		C.Y.									
Embankment-Granular Material Class II		C.Y.									
Subgrade Undercutting Type II		C.Y.									
Bituminous Approaches		Ton									
24" Sewer, C-76-V, (Trench Detail 9)		L.F.									
Remove Hydrant-Method II		Each									
Adjusting Water Shutoffs		Each									
Edge Trimming		L.F.									
Concrete Pav't.-Nonreint-8"		S.Y.									
Concrete Pav't.-Reint.-9" with Integral Curb		S.Y.									
Cement		Ton									
60" Sewer C-76-V Encased (Trench Detail 8)		L.F.									
Conc. Pav't. Patching, Type NS, 9"-Nonreint.		S.Y.									
12" Sewer C-76-III (Trench Detail 8)		L.F.									
12" Sewer C-76-III (Trench Detail 9)		L.F.									
12" Sewer C-76-IV (Trench Detail 8)		L.F.									
15" Sewer C-76-IV (Trench Detail 8)		L.F.									
12" Sewer C-76-IV (Trench Detail 9)		L.F.									
60" Sewer C-76-V Encased (Trench Detail 9)		L.F.									
15" Sewer C-76-IV (Trench Detail 9)		L.F.									
Catch Basin "B"		Each									
Catch Basin "A"		Each									
Manhole-Drop		Each									
Manhole-Standard		Each									
Catch Basin "L"		Each									
D.W.S. Manhole		Each									
12" Sewer Taps		Each									
15" Sewer Taps		Each									
Adjusting Drainage Structure Covers		Each									
Reconstructing Drainage Structures		Each									
12" Sewer Traps		Each									
Integral Curb & Sidewalk		L.F.									
Reinforced Concrete Transition		Each									
4" Concrete Sidewalk		S.F.									
6" Concrete Sidewalk		S.F.									
Sidewalk Ramp-Type 1		S.F.									
Sidewalk Ramp-Type 3		S.F.									
Lighted Arrow, Type A-Furnished		Each									
Lighted Arrow, Type A-Operated		Each									
8" Water Main, Trench Detail 12		L.F.									
Barricade, Type III		Each									
Barricade, Type II (Drums), Lighted-Furnished		Each									
Barricade, Type II (Drums), Lighted-Operated		Each									
Drum Guide Rail		L.F.									
Temporary Concrete Barrier		L.F.									
Minor Traffic Devices		Lump Sum									
Sign Type B Temporary		S.F.									
Acer Platanoides, 3½"-4" B&B		Each									
Gleditsia Tricanthos Inermis Skyline, 3½"-4" B&B		Each									
Malus Floribunda 7'-8', B&B		Each									
Crataegus Phaenopyrum 7'-8', B&B		Each									
Class "A" Sodding		S.Y.									
Water		Unit									
Remove Hydrant-Method I		Each									
Topsoil Surface-3"		S.Y.									
Removing Heavy Reinforced Foundations		C.Y.									
Fire Hydrant		Each									
Relocate Hydrant-Method I		Each									
Reconstruct Gate Well Manhole		Each									
Removing Above Ground Debris		Lump Sum									
8" Encased Water Main, Trench Detail 14 Modified		L.F.									
Adjust Hydrant		Each									
Adjust Gate Well Manhole Covers		Each									
On The Job Training		Each									
Stairwell		Each									
Mobilization		Lump Sum									
Site Preparation		Lump Sum									
Sealing Building Window Openings		Lump Sum									
24" Sewer Tap		Each									
Abandoning of Rosa Parks Sewer		Lump Sum									
Field Office		Lump Sum									

PLAN ESTIMATE BY _____ DATE _____ CHECKED BY _____ DATE _____ DATE _____ DATA COMPLETED _____ PROJ. ENG DATE _____ HISTORY CHECKED ENTERED ON PLANS BY _____ DATE _____

ROSA PARKS BLVD.-LAFAYETTE AVE.-RECONSTRUCTION QUANTITIES — SHEET R22 OF R22 SHEETS — DATE 10-79