

**CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS**
IN CO-OPERATION WITH

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION - 1990 - STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

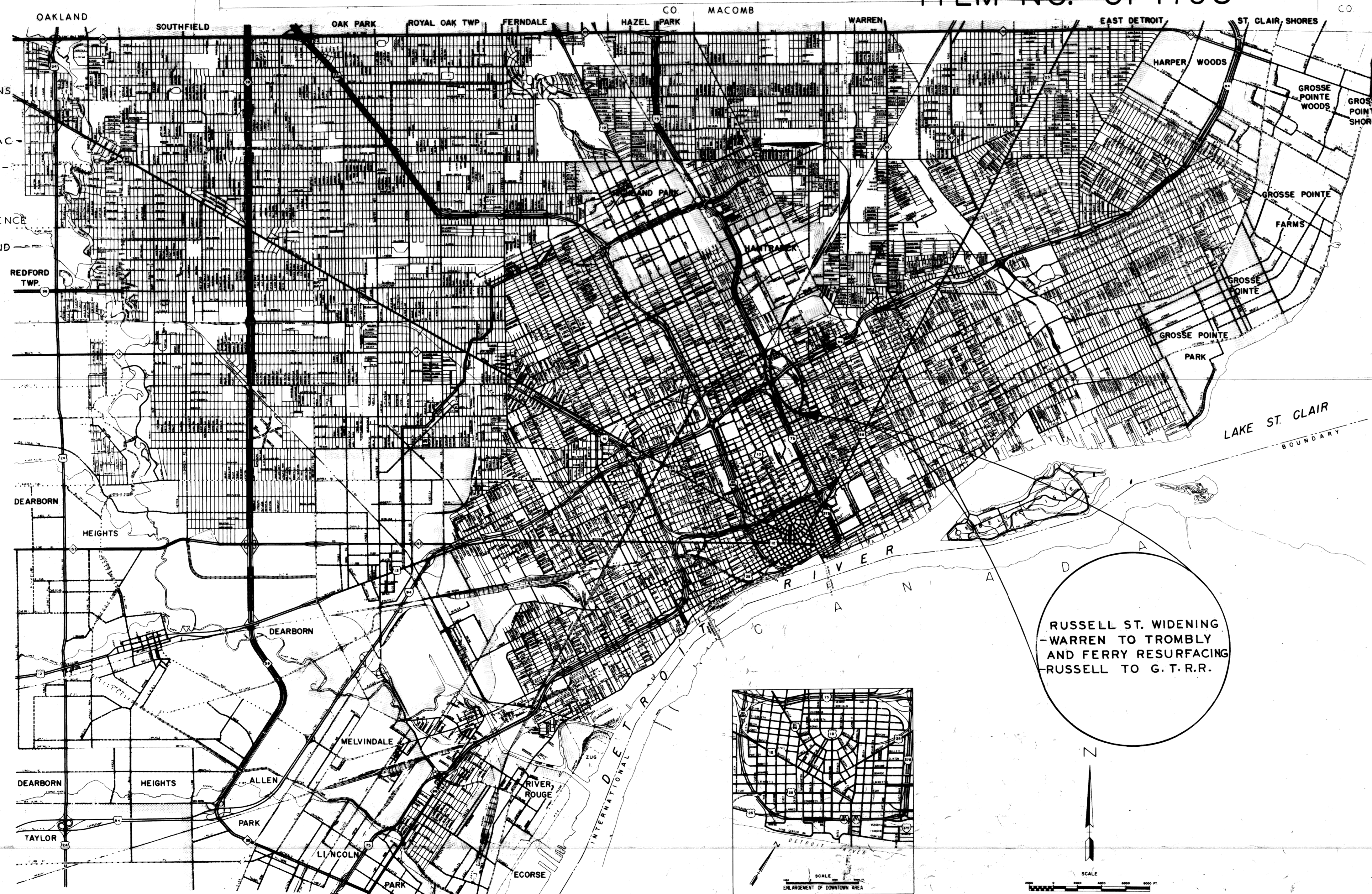
**MICHIGAN DEPARTMENT OF TRANSPORTATION
AND
FEDERAL HIGHWAY ADMINISTRATION**
FEDERAL AID URBAN PROJECT NO. MICHIGAN MR 2000 (307)
CONTROL SECTION MUR 82400 JOB NO. 14670A
ITEM NO. UF 1768

F.H.W.A. REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MCH.				
STREET	CITY	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS

RUSSELL ST.

DESIGN SPEED 30MPH
ADT (1991) 4500
ADT (2008) 10000

- INDEX OF SHEETS**
- 1 TITLE SHEET
 - 2 TYPICAL CROSS-SECTIONS
 - 3-4 ALIGNMENT
 - 5-6 REMOVALS
 - 7-10 PLAN AND PROFILE
 - 11 UTILITIES AND RESURFACING PLAN
 - 12 REMOVALS AND RESURFACING (FERRY AVE.)
 - 13-14 DETAILED GRADES
 - 15-16 UTILITIES
 - 17-19 CONSTRUCTION SEQUENCE
 - 20-21 PAVEMENT MARKINGS
 - 22-26 SPECIAL STANDARDS AND DETAILS
 - 27-31 QUANTITY SHEET STANDARD PLANS
- | | |
|-----------|------------|
| II - 28 G | II - 44 G |
| II - 29 E | II - 45 G |
| II - 39 K | IV - 83 G |
| II - 40 G | V - 96 D |
| II - 41 G | VI - 125 H |
| II - 42 F | IV - 80 D |
| II - 43 D | |



RUSSELL ST. WIDENING
- WARREN TO TROMBLY
AND FERRY RESURFACING
- RUSSELL TO G. T. R. R.

ITEM NO. UF 1768

CONTRACT FOR G, DS, P, & UTILITIES

LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

APPROVED BY E. M. Hammeley 8/13/91
DEPUTY DIRECTOR DATE

APPROVED BY Clyde R. Hopkins 8-13-91
DIRECTOR DATE

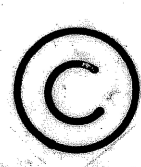
PREPARED UNDER SUPERVISION OF
William L. Talley 26185
REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.

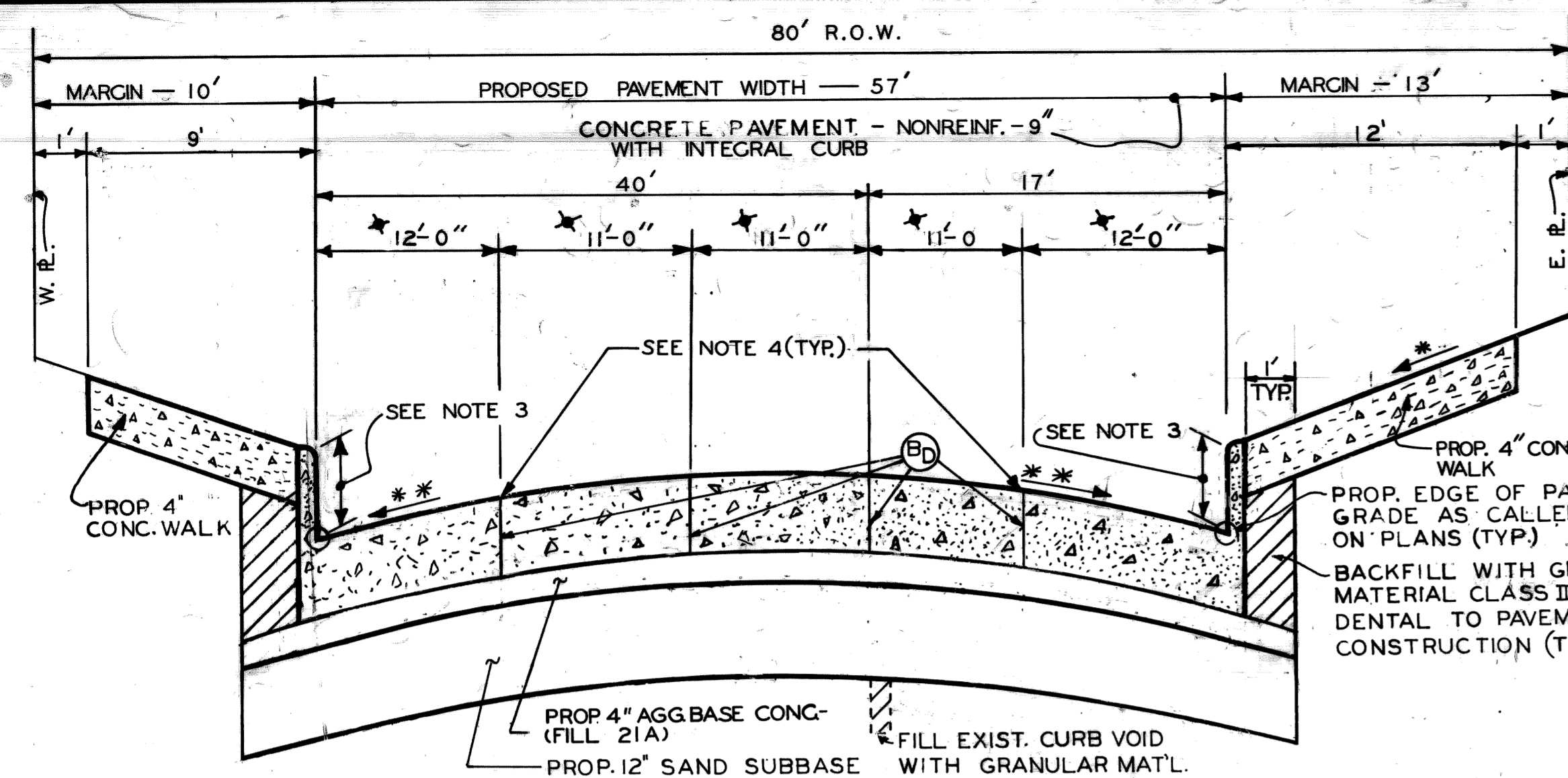
CITY OF DETROIT
ORGANIZATION

DETROIT, MICHIGAN
ADDRESS

STATE OF MICHIGAN
WILLIAM L. TALLEY
ENGINEER
No. 26185
REGISTERED PROFESSIONAL ENGINEER (SEAL)

MR 2000 (307), MUR 82400, JOB NO 14670A, ITEM NO. UF 1768

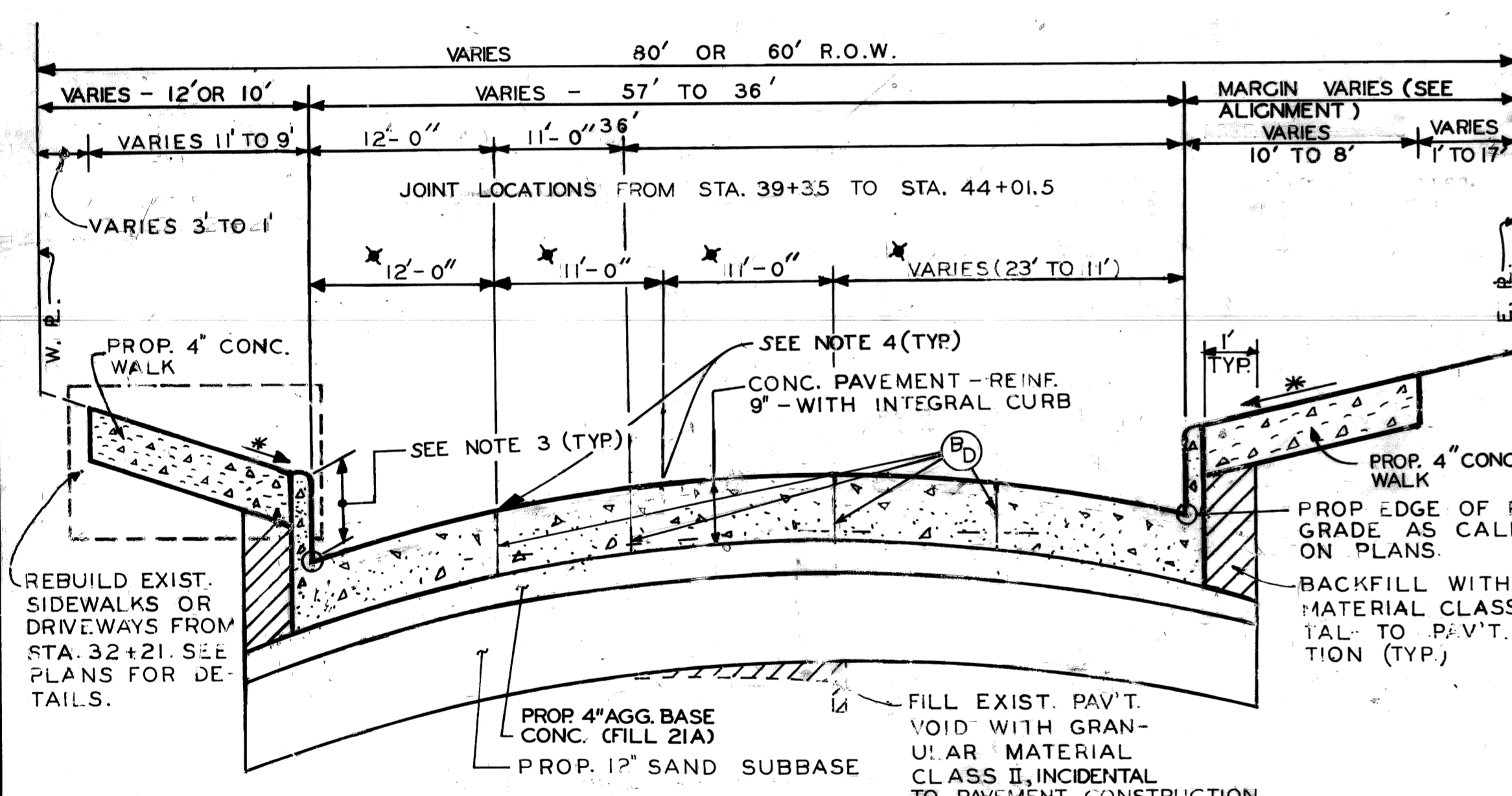




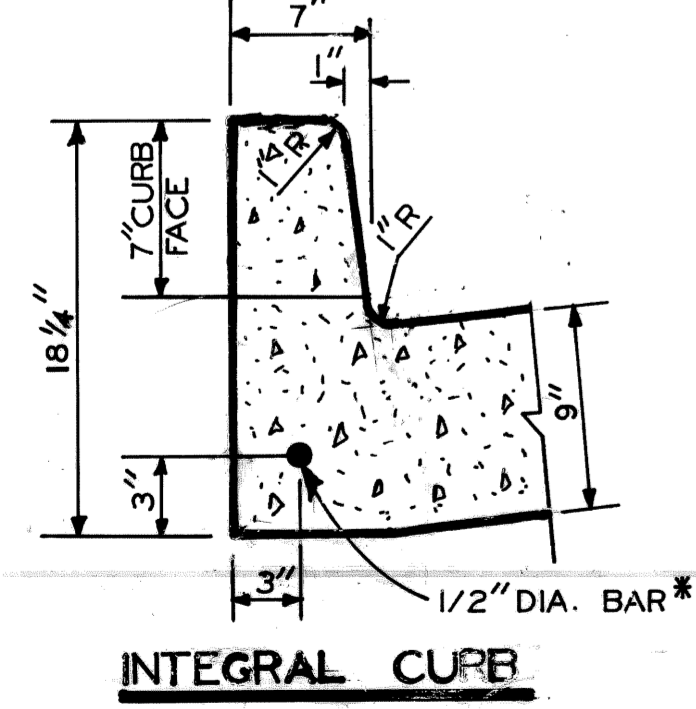
* SIDEWALK SHALL SLOPE AT 3/8" PER FOOT UNLESS THE ENGINEER DETERMINES OTHERWISE TO MEET EXIST. CONDITIONS. THE ENGINEER WILL CHOOSE WITHIN THESE LIMITS: 1/4" PER FOOT MINIMUM TO 3/4" PER FOOT MAXIMUM 0.02' PER FOOT MINIMUM SLOPE (SEE PLAN FOR GRADE).

** THE PROPOSED WIDTHS SHALL INDICATE THE LOCATIONS OF THE PROPOSED PAV'T. JOINTS. THE LANE LINES SHALL BE LOCATED AT 12'-11'-11'-11'-12' ACROSS THE 57' PAV'T.

TYPICAL CROSS SECTION -- RUSSELL STREET WIDENING (WARREN AVE. TO STA. 11+32)

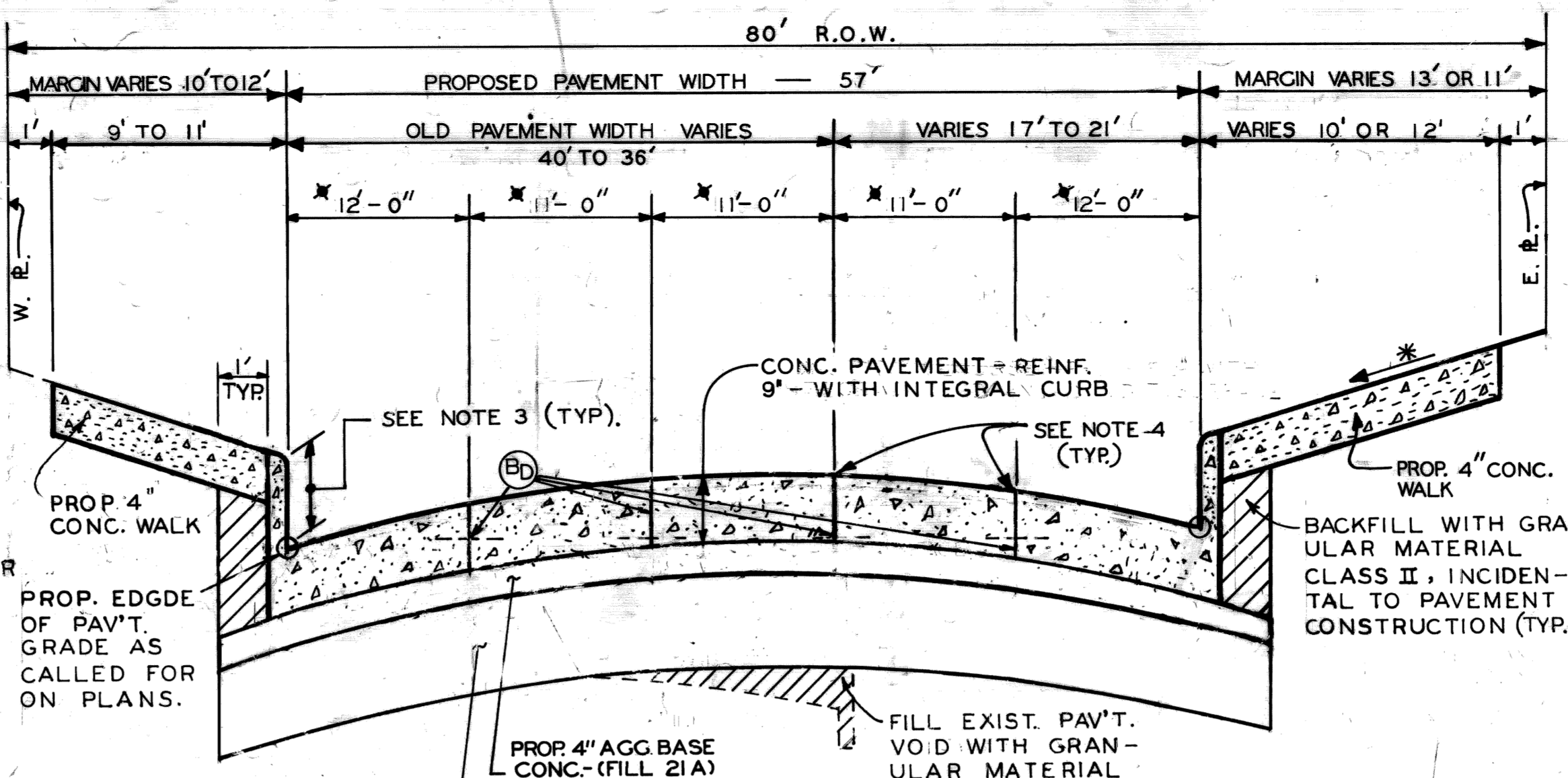


TYPICAL CROSS SECTION - RUSSELL STREET WIDENING (STA. 38+80 TO STA. 44+01.5)

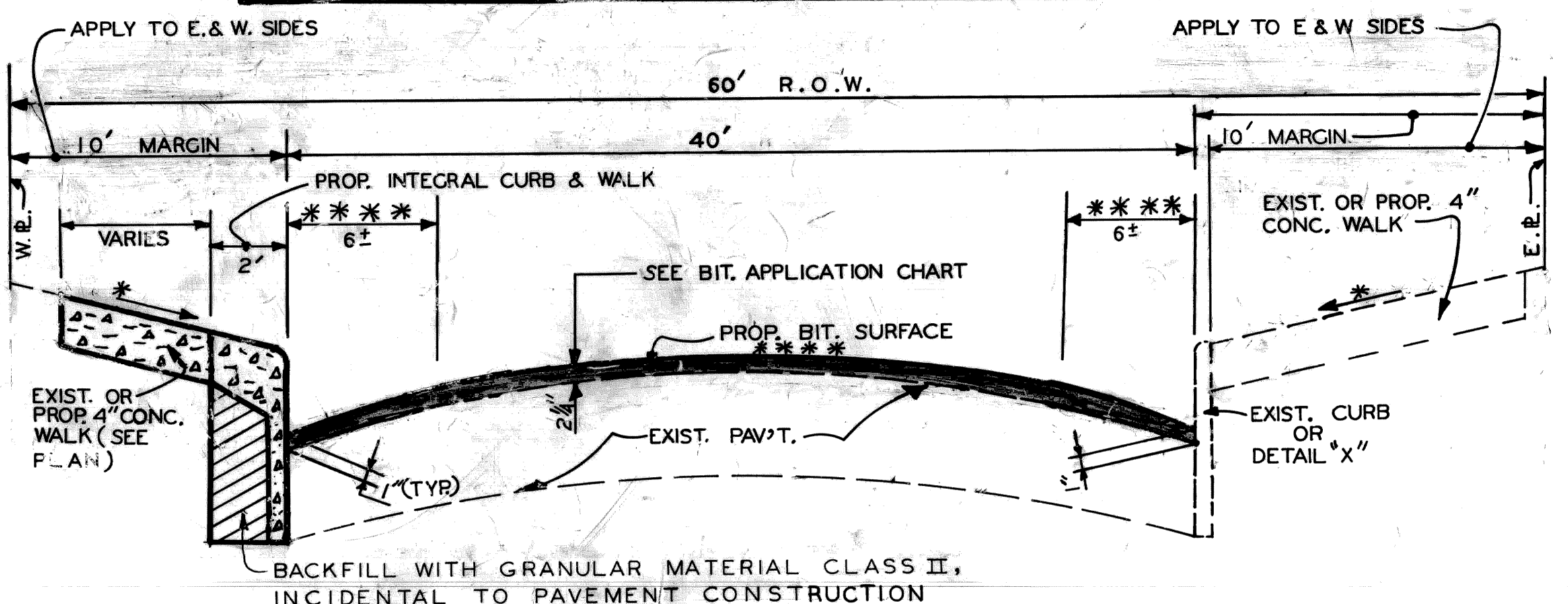


* OMIT BETWEEN WARREN AVE. AND STA. 11+32

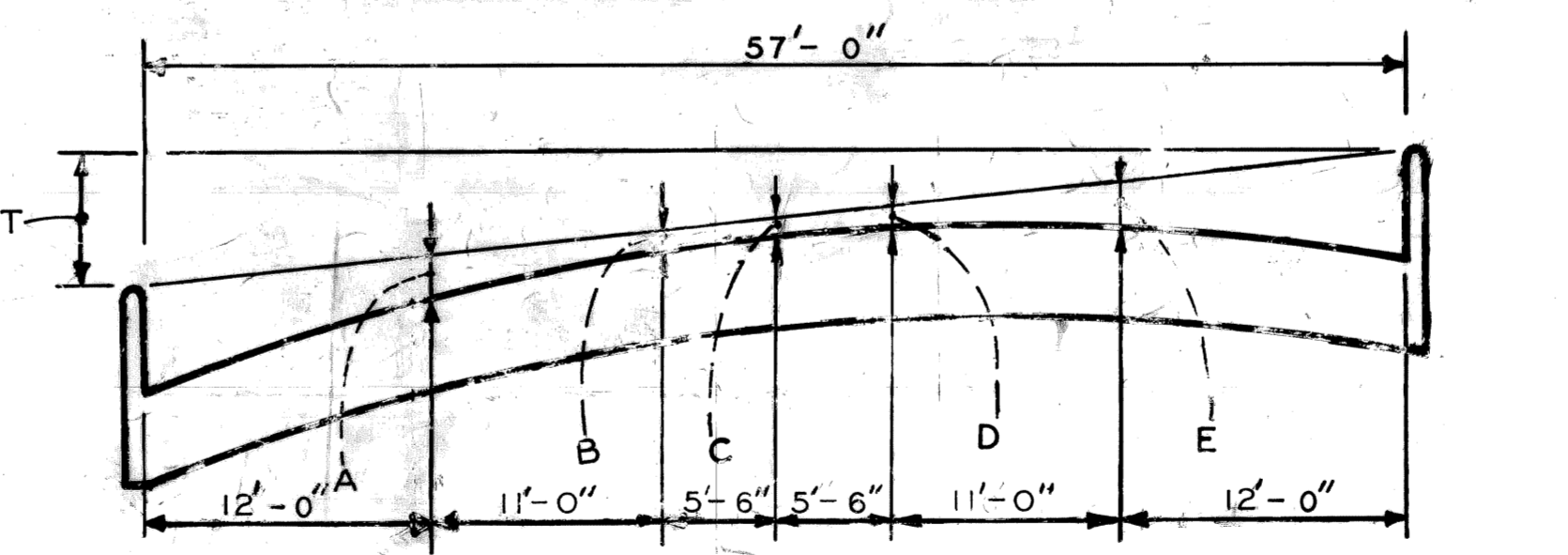
INTEGRAL CURB



TYPICAL CROSS SECTION - RUSSELL STREET WIDENING (STA. 11+32 TO STA. 36+80)



TYPICAL CROSS SECTION - RUSSELL STREET (STA. 44+01.5 TO STA. 53+56.5)



PAV'T. WIDTH	CURB HEIGHT	A	B	C	D	E	
57'	7"	VARIES	0.267	0.126	0.108	0.126	0.267

ELEMENTS OF PROP. 57' PAV'T.

ALL SECTIONS NOT TO SCALE

BITUMINOUS APPLICATION CHART

ITEM	RATE OF APPLICATION	ESTIMATED THICKNESS	ASPHALT PENETRATION
BITUMINOUS MIXTURE NO. 1300L, 20 AAA	130#/SY.	1 1/2 INCHES	85-100
BITUMINOUS MIXTURE NO. 1300T, 20AAA	120#/SY.	1 INCH	85-100
BITUMINOUS BOND COAT 0-010 GAL./SY. TO RIGID BASES AND 0.05 GAL./SY. TACK COAT BETWEEN LAYERS			

JOINT LEGEND

- (B) LONGITUDINAL BULKHEAD JOINT ACCORDING TO M.D.O.T. STANDARD DRAWING II-41G
- (D) LONGITUDINAL LANE TIE JOINT WITH TIE BAR ACCORDING TO M.D.O.T. STANDARD DRAWING II-41G
- (B₁) OPTIONAL, B OR D
- (L₂) LONGITUDINAL BULKHEAD JOINT ACCORDING TO M.D.O.T. STANDARD DRAWING II-41G

ESTIMATED QUANTITIES FOR USE AT THE DISCRETION OF THE ENGINEER

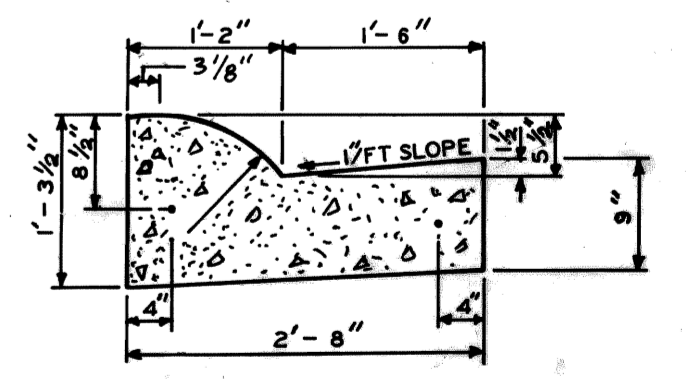
REMOVING PAVEMENT (REPAIR)	100	SQ. YDS.
CONC. PAVEMENT REPAIR, 10" NONREINFORCED	100	SQ. YDS.
SUBGRADE UNDERCUTTING, TYPE II	200	SQ. YDS.
4" CONC. SIDEWALK	150	SQ. FT.
REMOVING SIDEWALK	20	SQ. YDS.
CLEANING DRAINAGE STRUCTURE	10	EACH
SEWER CLEANOUT	250	LIN. FT.
CEMENT	6	TONS
CONC. CURB DETAIL "CD"	200	LIN. FT.
CLASS "A" SODDING	150	SQ. YDS.
TOPSOIL SURFACE - 3"	15	CU. YDS.
WATER	1	UNIT
RECONSTRUCTING DRAINAGE STRUCTURE, CASE 1	10	EACH
REMOVING MASONRY AND CONCRETE STRUCTURES	100	CU. YDS.
SUBGRADE UNDERDRAIN, 6"	500	LIN. FT.

MISCELLANEOUS QUANTITIES

MOBILIZATION	1	LUMP SUM
ON THE JOB TRAINING	750	HOURS
MINOR TRAFFIC DEVICES	1	LUMP SUM
FIELD OFFICE	9	MONTHS
FLAG CONTROL	1	LUMP SUM

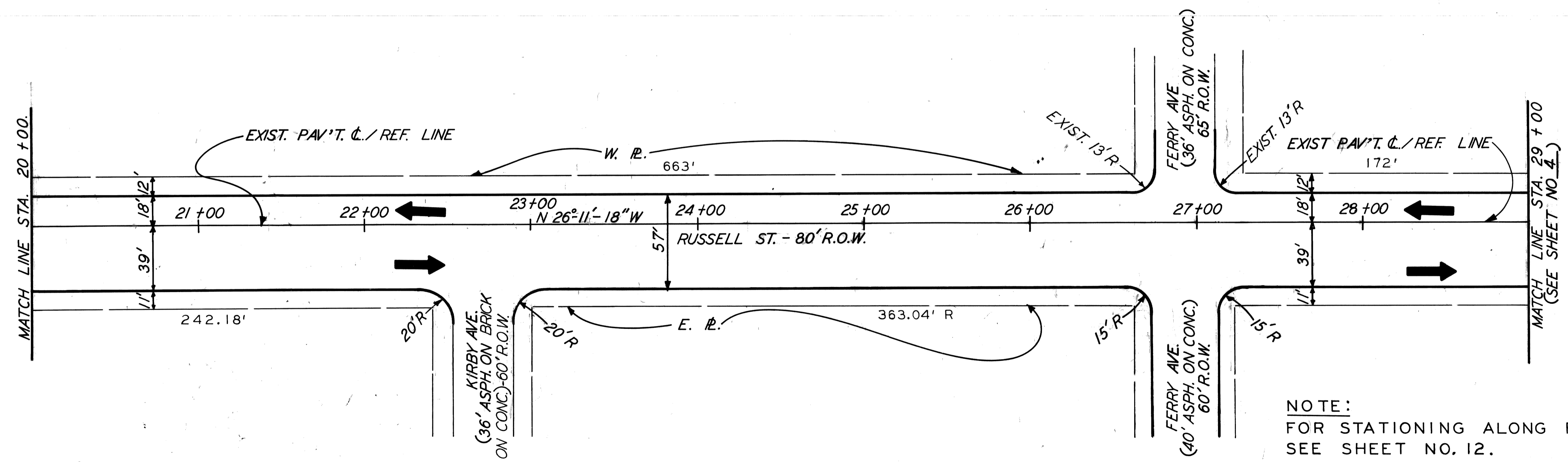
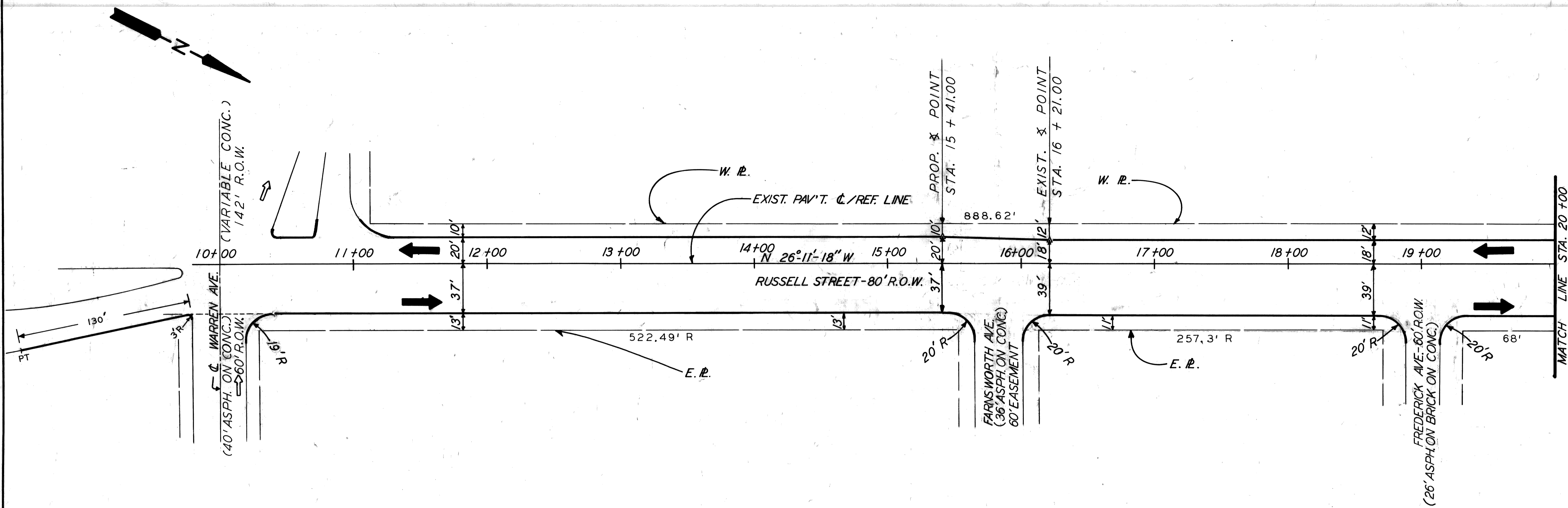
GENERAL NOTES

- (1) THE PROPOSED CURB SHALL BE INTEGRAL CURB (SEE DETAIL THIS SHEET) WITH CONC. CURB DETAIL "X" AS AN ALTERNATE. REGARDLESS OF CONSTRUCTION METHOD, THE PROPOSED CURB SHALL BE PAID FOR AS "CONC. BASE COURSE - REINF. - 9" WITH INTEGRAL CURB" OR "CONC. BASE COURSE - NONREINF. - 9" WITH INTEGRAL CURB".
- (2) BACKFILL, IF REQUIRED, UNDER PROPOSED SIDEWALKS SHALL BE GRANULAR MATERIAL CLASS II (INCIDENTAL TO PROPOSED SIDEWALK CONSTRUCTION).
- (3) THE CURB FACE HEIGHT SHALL BE 7" IN THE PROPOSED PAVEMENT AREAS AND SHALL NOT BE LESS THAN 4" WHERE RESURFACING IS CALLED FOR ON THE PLANS, OR WHERE IT IS REQUIRED TO MEET EXISTING CONDITIONS AT THE PROPERTY LINES.
- (4) SAW PLANE OF WEAKNESS JOINTS OVER THE EXIST. OR PROPOSED JOINT AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "SAWED LONGITUDINAL PLANE OF WEAKNESS JOINT."



CONC. CURB & CUTTER DETAIL B2

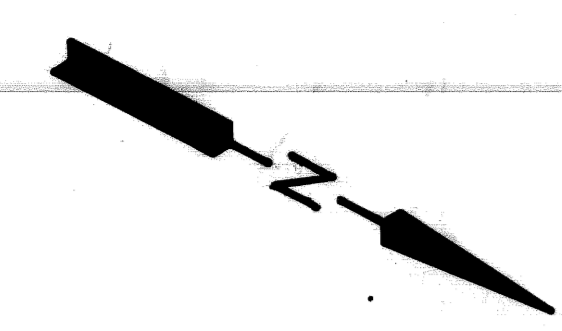
DESIGNED BY E.O.	APPROVED: <i>William Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY	SHEET 2 OF 85 SHEETS
DRAWN BY E.O. ΔS	HIGHWAY ENGINEER		TYPICAL CROSS SECTIONS	CONTRACT NO.
TRACED BY				ASSIGNMENT NO. 83-22-12
CHECKED BY N.W.				DATE OCT, 1990



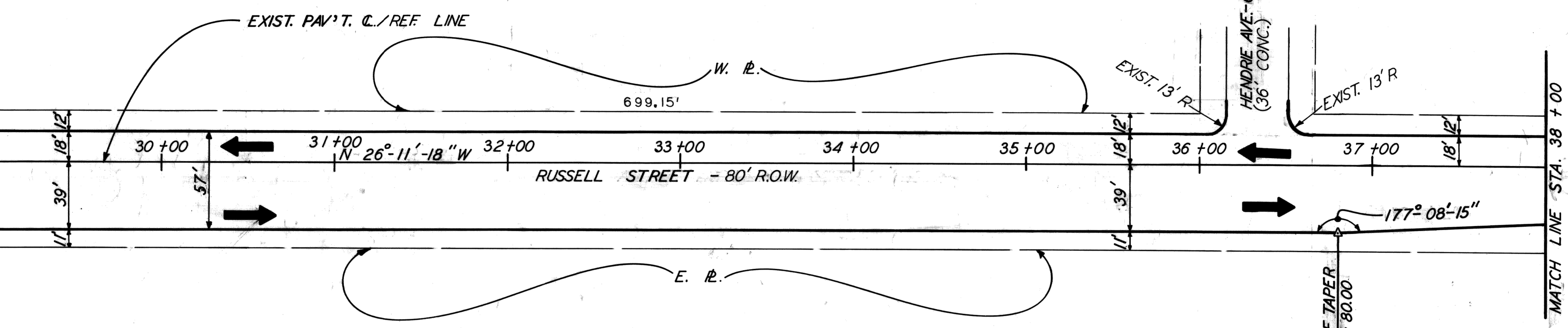
NOTE:
FOR STATIONING ALONG FERRY AVE.
SEE SHEET NO. 12.

SCALE: 1"=40'

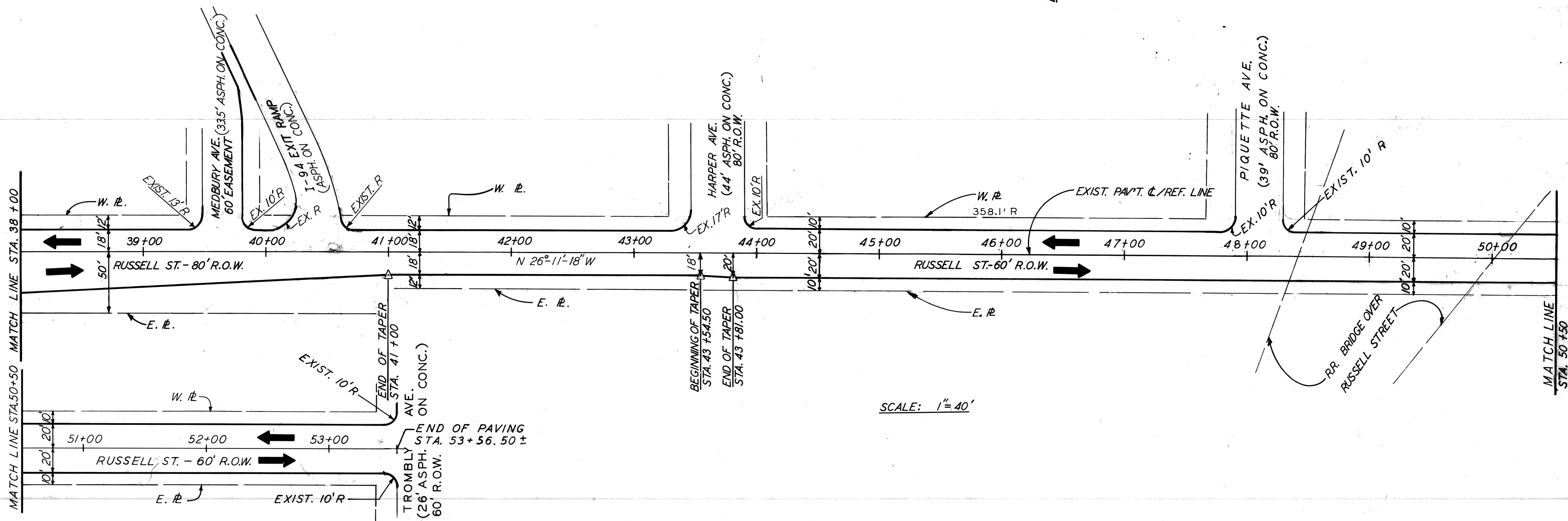
<table border="1"> <tr> <td>COORD</td> <td>DESCRIPTION</td> <td>DRN</td> <td>CHKD</td> <td>APVD</td> <td>DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		COORD	DESCRIPTION	DRN	CHKD	APVD	DATE							<table border="1"> <tr> <td>DESIGNED BY</td> <td>E.O.</td> </tr> <tr> <td>DRAWN BY</td> <td>E.O.</td> </tr> <tr> <td>TRACED BY</td> <td> </td> </tr> <tr> <td>CHECKED BY</td> <td>W.B.</td> </tr> </table>	DESIGNED BY	E.O.	DRAWN BY	E.O.	TRACED BY		CHECKED BY	W.B.	<table border="1"> <tr> <td>APPROVED:</td> <td><i>William Talley</i></td> </tr> <tr> <td>ENGINEER OF STREETS</td> <td> </td> </tr> <tr> <td>HIGHWAY ENGINEER</td> <td> </td> </tr> </table>	APPROVED:	<i>William Talley</i>	ENGINEER OF STREETS		HIGHWAY ENGINEER		<p align="center">CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS</p>	<p align="center">RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY ALIGNMENT WARREN AVENUE TO STA. 29+00</p>	<table border="1"> <tr> <td>SHEET</td> <td>3</td> <td>OF</td> <td>65</td> <td>SHEETS</td> </tr> <tr> <td>CONTRACT NO.</td> <td colspan="4"> </td> </tr> <tr> <td>ASSIGNMENT NO.</td> <td colspan="4">83-22-12</td> </tr> <tr> <td>DATE</td> <td colspan="4">OCT, 1990</td> </tr> </table>	SHEET	3	OF	65	SHEETS	CONTRACT NO.					ASSIGNMENT NO.	83-22-12				DATE	OCT, 1990			
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MATCH LINE STA. 29 + 00 (SEE SH. NO. 3)



MATCH LINE STA. 38 + 00

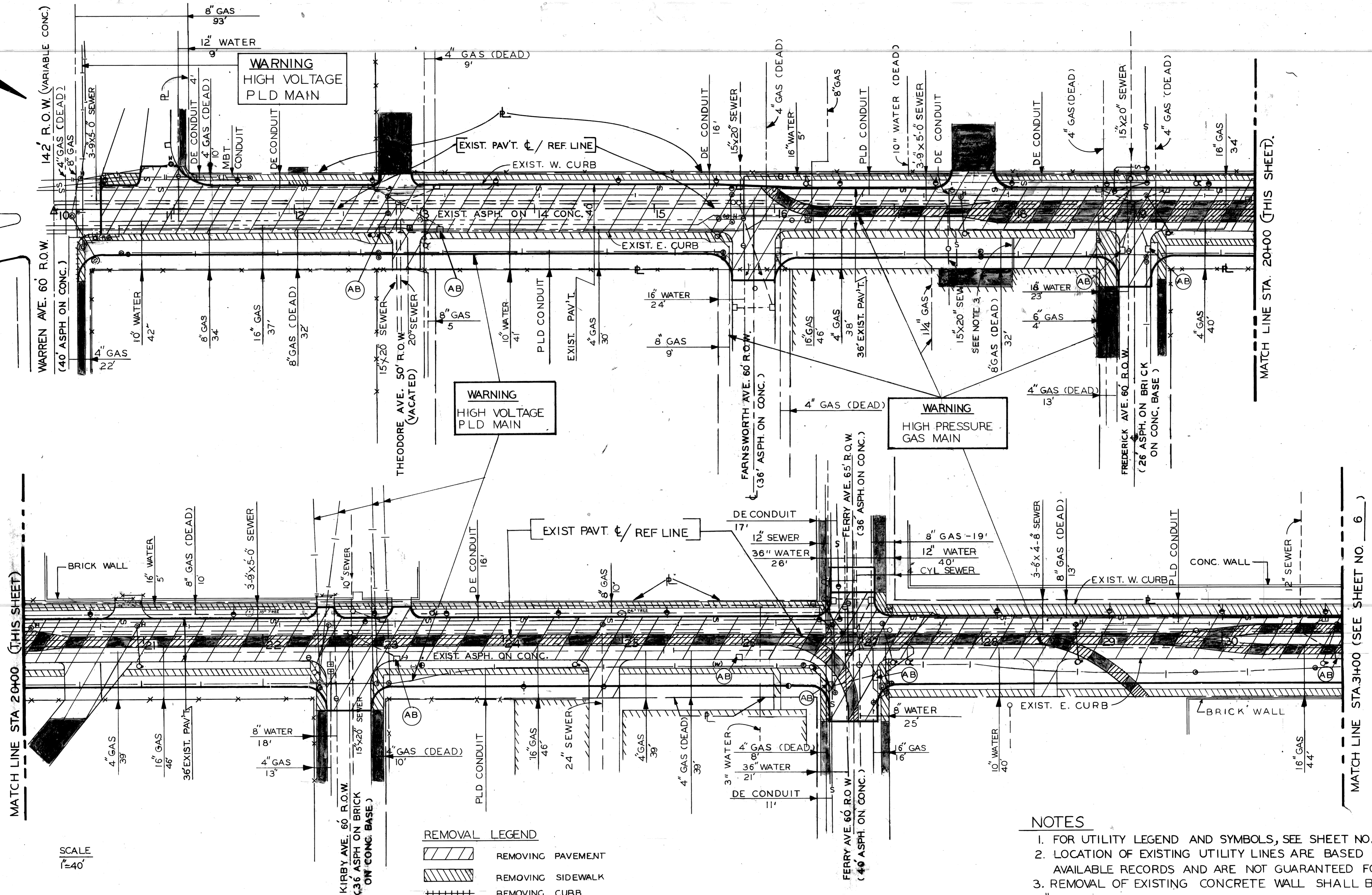


MATCH LINE STA. 38 + 00

MATCH LINE STA. 50 + 00

SCALE: 1" = 40'

REVISIONS LOCATED BY COORDINATES ON SHEET 1 2 3 4 5 6 7 8 9 10 11		REFERENCE DRAWINGS DESIGNED BY E.O. DRAWN BY E.O. TRACED BY CHECKED BY W.B.	APPROVED: ENGINEER OF STREETS HIGHWAY ENGINEER	CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY ALIGNMENT STA. 29 + 00 TO TROMBLY AVE.	SHEET 4 OF 65 SHEETS CONTRACT NO. ASSIGNMENT NO. 83-22-12 DATE OCT., 1990
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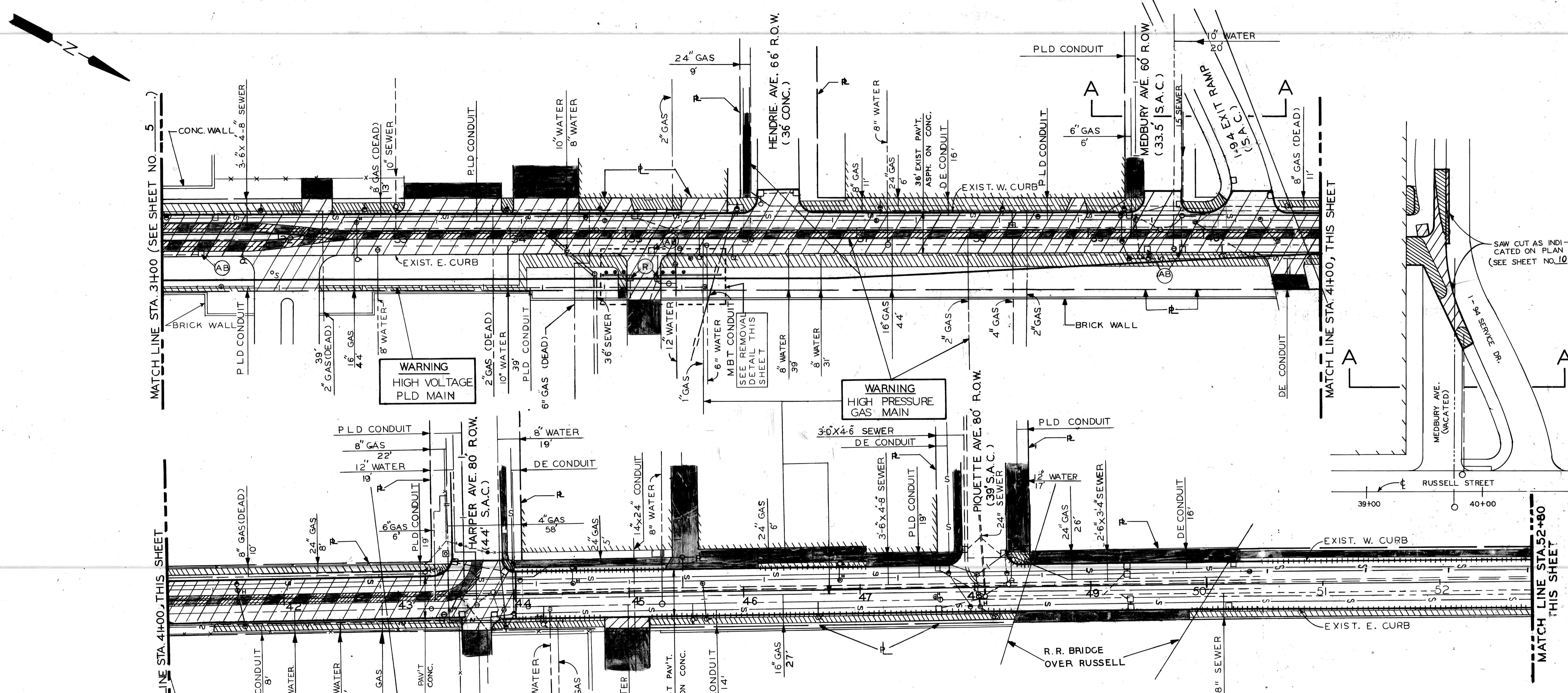
SCALE
1"=40'

- REMOVAL LEGEND**
- REMOVING PAVEMENT
 - REMOVING SIDEWALK
 - REMOVING CURB
 - AB ABANDONING DRAINAGE STRUCTURE
 - EXISTING SIDEWALK OR DRIVEWAY TO REMAIN
 - EXISTING FENCE TO REMAIN
 - REMOVING TRACK ENCASUREMENT

- NOTES**
1. FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 25.
 2. LOCATION OF EXISTING UTILITY LINES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.
 3. REMOVAL OF EXISTING CONCRETE WALL SHALL BE PAID FOR AS "REMOVING MASONRY AND CONCRETE STRUCTURES" (ESTIMATED QUANTITY = 4 C.Y.).

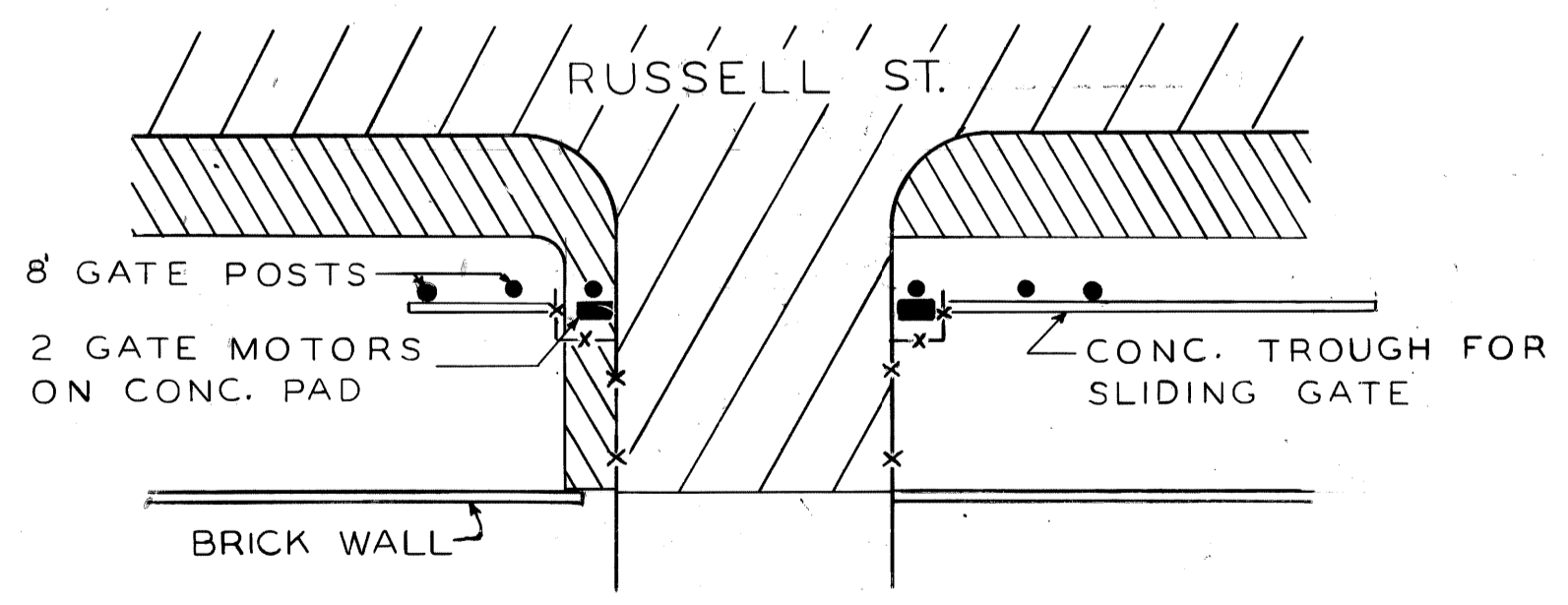
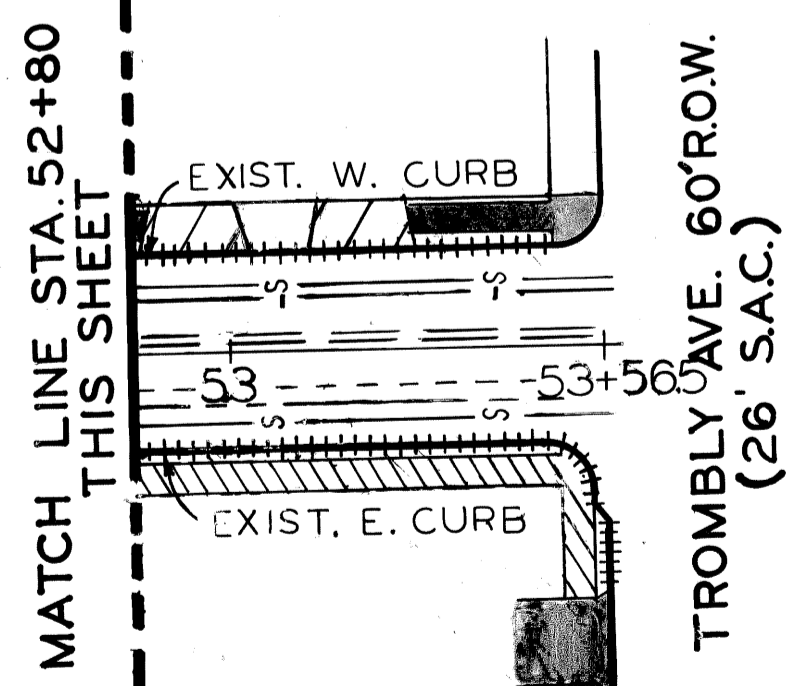
CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

REVISIONS LOCATED BY COORDINATES ON SHEET 1 2 3 4 5 6 7 8 9 10 11		REFERENCE DRAWINGS DESIGNED BY DRAWN BY TRACED BY CHECKED BY	U.P. N.O.W.	APPROVED: ENGINEER OF STREETS HIGHWAY ENGINEER	CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY REMOVALS WARREN AVE. TO STA.31+00	SHEET 5 OF 65 SHEETS CONTRACT NO. ASSIGNMENT NO. 83-22-12 DATE OCT, 1990
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WARNING
HIGH VOLTAGE
PLD MAIN

WARNING
HIGH PRESSURE
GAS MAIN



REMOVAL DETAIL - SCALE: 1" = 20'
SEE PROPOSAL FOR GATE
RELOCATION DETAIL

- REMOVAL LEGEND**
- REMOVING PAVEMENT
 - REMOVING SIDEWALK
 - EXISTING SIDEWALK OR DRIVEWAY TO REMAIN
 - REMOVING CURB
 - EXISTING FENCE TO REMAIN
 - ABANDONING DRAINAGE STRUCTURE
 - REMOVING DRAINAGE STRUCTURES
 - REMOVING TRACK ENCASUREMENT

SCALE 1" = 40'

- NOTES**
- FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 25.
 - LOCATION OF EXISTING UTILITY LINES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.

<p>DESIGNED BY: U.P.</p> <p>DRAWN BY:</p> <p>TRACED BY:</p> <p>CHECKED BY: N.O.W.</p>		<p>APPROVED:</p> <p><i>Williams Talley</i></p> <p>ENGINEER OF STREETS</p> <p>HIGHWAY ENGINEER</p>	<p>CITY OF DETROIT</p> <p>CITY ENGINEERING</p> <p>BUREAU OF STREETS AND HIGHWAYS</p>	<p>RUSSELL STREET WIDENING</p> <p>WARREN AVENUE TO TROMBLY</p> <p>REMOVALS</p> <p>STATION 3+00 TO TROMBLY AVE.</p>	<p>SHEET 6 OF 65 SHEETS</p> <p>CONTRACT NO.:</p> <p>ASSIGNMENT NO. 83-22-12</p> <p>DATE OCT, 1990</p>
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DRAINAGE STRUCTURE (D.S.) NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING			SEWER TAP SIZE (IN)	TRENCH DETAIL (L.F.)		COMMENTS
			LENGTH (FT.)	SIZE (IN)	CLASS		A	B	
1	C.B. "L"	1/2 TRAP	21	12	C-76-III	12	21	CONNECT TO ABANDONED EXIST. C.B. OUTLET	
2	18"x12"		75	12	C-76-III		75		
3	C.B. "A"		24	12	C-76-III		24	PASSES UNDER 16" WATER	
4	C.B. "B"	T	10	15	C-76-IV		10		
5	C.B. "A"		35	12	C-76-III		35		
11	MH-DROP		58	15	C-76-IV	15	58	PASSES UNDER 16" GAS	

SCALE: HORIZONTAL: 1"=40' VERTICAL: 1"=2'

BOOK NO. PG. DATE

LEVEL DATE

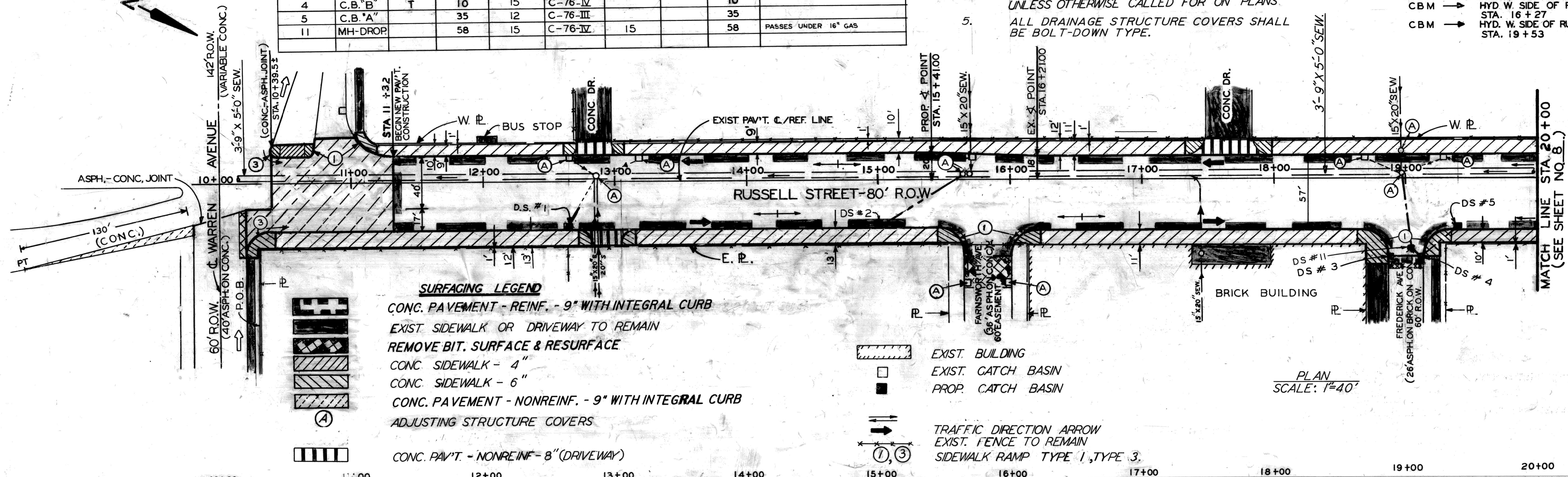
CONTRACTOR

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

NOTE - FOR SYMBOLS (A) ETC., SEE STANDARD DETAIL DRAWING NO. C-478

- NOTES**
- FOR ALIGNMENT, SEE SHEET NO. 3.
 - FOR UTILITY LEGEND & SYMBOLS, SEE SHEET NO. 25.
 - FOR DRIVEWAY DETAILS, SEE SHEET NO. 25.
 - PROP. DRIVEWAY AND ALLEY RADI SHALL BE 10' UNLESS OTHERWISE CALLED FOR ON PLANS.
 - ALL DRAINAGE STRUCTURE COVERS SHALL BE BOLT-DOWN TYPE.

BENCH MARKS	ELEV.
CBM → HYD. S.E. CORNER WARREN & RIOPELLE	155.91
CBM → HYD. S.E. CORNER WARREN & RUSSELL	155.94
CBM → HYD. N.W. CORNER WARREN & RUSSELL	155.91
CBM → HYD. W. SIDE OF RUSSELL STA. 16+27	155.30
CBM → HYD. W. SIDE OF RUSSELL STA. 19+53	154.78



SURFACING LEGEND

- CONC. PAVEMENT - REINF. - 9" WITH INTEGRAL CURB
- EXIST. SIDEWALK OR DRIVEWAY TO REMAIN
- REMOVE BIT. SURFACE & RESURFACE
- CONC. SIDEWALK - 4"
- CONC. SIDEWALK - 6"
- CONC. PAVEMENT - NONREINF. - 9" WITH INTEGRAL CURB
- ADJUSTING STRUCTURE COVERS
- CONC. PAV'T. - NONREINF. - 8" (DRIVEWAY)

EXIST. BUILDING

EXIST. CATCH BASIN

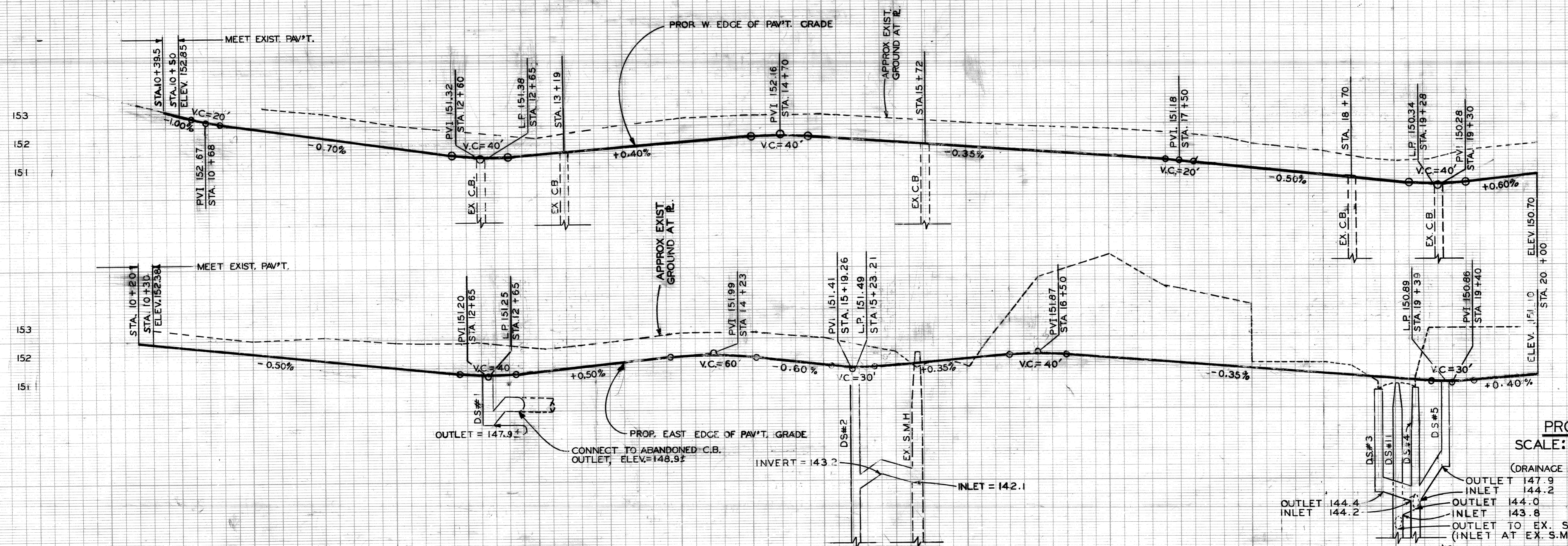
PROP. CATCH BASIN

TRAFFIC DIRECTION ARROW

EXIST. FENCE TO REMAIN

SIDEWALK RAMP TYPE 1, TYPE 3.

PLAN SCALE: 1"=40'



PROFILES

SCALE: HOR 1"=40' VERT. 1"=2'

(DRAINAGE STRUCTURES NOT TO SCALE)

OUTLET 147.9
INLET 144.2
OUTLET 144.0
INLET 143.8
OUTLET TO EX. S.M.H. 142.5
(INLET AT EX. S.M.H. 142.0)

DESCRIPTION		DR. N.	CK. D.	AP. V.D.	DATE	FINAL	CHECK	REVIEW
REVISIONS							S.J.	
BY	CHECKED BY	APPROVED:						
PLAN	EO	WB	<i>William Telling</i> ENGINEER OF STREETS					
GRADE	EO	UP	CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS					
ESTIMATE			HIGHWAY ENGINEER					
INDEX NO.	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY PLAN & PROFILE WARREN AVENUE TO STA. 20+00		CONTRACT NO.		ASSIGNMENT NO. 83-22-12		DATE OCT., 1990	
SHEET 7 OF 65 SHEETS								

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D/S			SEWER TAP SIZE (IN.)	TRENCH DETAIL (L.F.)		COMMENTS
			LENGTH (FT)	SIZE (IN.)	CLASS		A	B	
6	MH-STD.								CONSTRUCT OVER EXIST. 15" x 20" SEWER
7	CB "B"	T	78	12	C-76-III			78	
8	CB "A"		20	12	C-76-III			20	
9	CB "B"	T	180	15	C-76-IV	15		180	INSTALL MANHOLE COVER ON TYPE "B" CATCH BASIN
10	CB "A"		48	12	C-76-IV			48	

SCALE: HORIZONTAL: _____ VERTICAL: _____

BOOK NO. PG. DATE _____

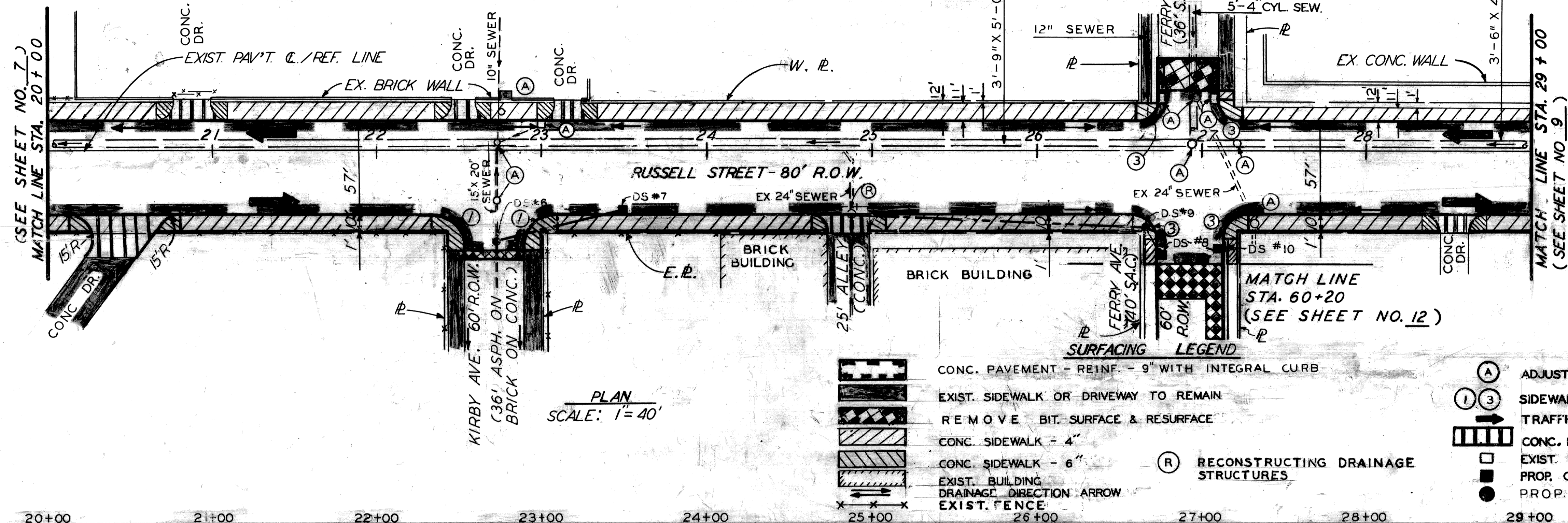
LEVEL: _____

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

NOTE - FOR SYMBOLS (A) ETC. SEE STANDARD DETAIL DRAWING NO. C-472

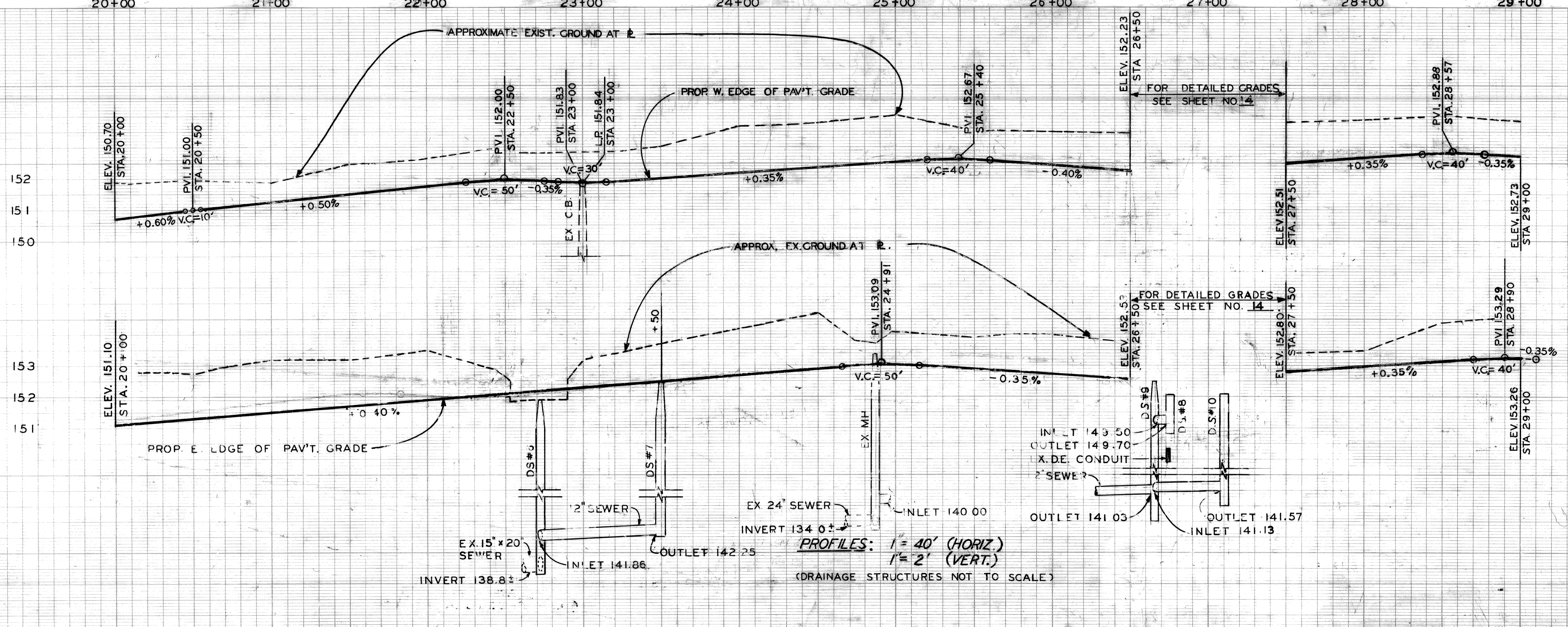
BENCH	MARKS	ELEV.
CBM	HYD. W. SIDE RUSSELL STA. 16 + 27	155.30
CBM	HYD. W. SIDE RUSSELL STA. 19 + 53	154.78
CBM	HYD. W. SIDE RUSSELL STA. 23 + 41	155.76
CBM	HYD. S.W. CORNER RUSSELL & FERRY	155.89
CBM	HYD. N.E. CORNER RUSSELL & FERRY	155.80

- NOTES**
- FOR ALIGNMENT, SEE SHEET NO. 3
 - FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 25
 - FOR DRIVEWAY DETAILS, SEE SHEET NO. 25
 - PROPOSED DRIVEWAY AND ALLEY RADII SHALL BE 10' UNLESS OTHERWISE CALLED FOR ON PLANS.
 - ALL DRAINAGE STRUCTURE COVERS SHALL BE BOLT-DOWN TYPE.



SURFACING LEGEND

- CONC. PAVEMENT - REINF. - 9" WITH INTEGRAL CURB
- EXIST. SIDEWALK OR DRIVEWAY TO REMAIN
- REMOVE BIT. SURFACE & RESURFACE
- CONC. SIDEWALK - 4"
- CONC. SIDEWALK - 6"
- EXIST. BUILDING
- DRAINAGE DIRECTION ARROW
- EXIST. FENCE
- (R) RECONSTRUCTING DRAINAGE STRUCTURES
- (A) ADJUSTING STRUCTURE COVERS
- (1) (3) SIDEWALK RAMP TYPE 1, TYPE 3
- TRAFFIC DIRECTION ARROW
- CONC. PAV'T. - NONREINF. - 8" (DRIVEWAY)
- EXIST. CATCH BASIN
- PROP. CATCH BASIN
- PROP. MANHOLE



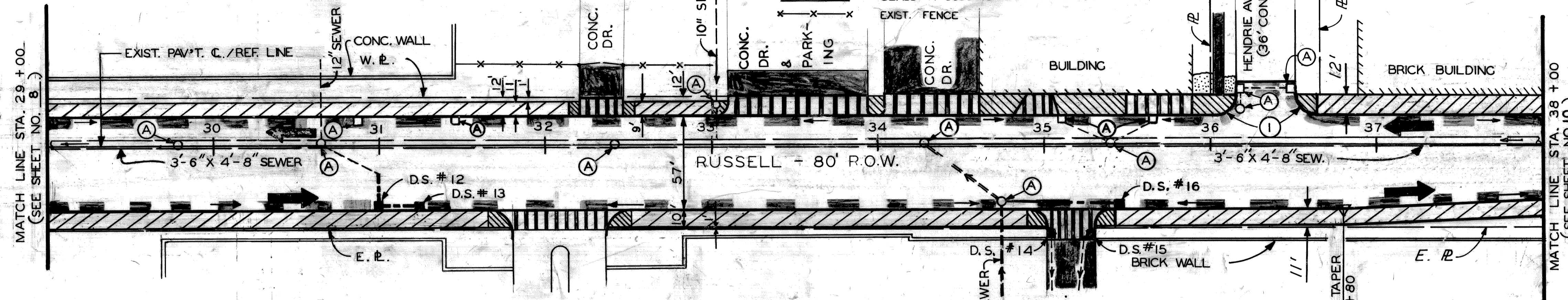
BY: E.O.		CHECKED BY: W.B.		APPROVED: <i>William Talley</i>		CITY OF DETROIT		RUSSELL AVENUE WIDENING		INDEX NO. SHEET 8 OF 65 SHEETS	
GRADE: E.O.		UP		ENGINEER OF STREETS		CITY ENGINEERING		WARREN AVENUE TO TROMBLY		CONTRACT NO.	
ESTIMATE:				HIGHWAY ENGINEER		BUREAU OF STREETS AND HIGHWAYS		PLAN & PROFILE		ASSIGNMENT NO. 83-22-12	
DESCRIPTION: FINAL		CHECK: S.J.		REVIEW:				STA. 20+00 TO STA. 29+00		DATE OCT., 1990	

SURFACING LEGEND

- CONC. PAVEMENT - REINF. - 9" WITH INTEGRAL CURB
- EXIST. SIDEWALK AND DRIVEWAY TO REMAIN
- COLD-MILLING BIT SURFACE AND RESURF.
- CONC. SIDEWALK - 4"
- CONC. SIDEWALK - 6"
- SIDEWALK RAMP TYPE 1

- ADJUSTING STRUCTURE COVERS
- CONC. PAVEMENT - NONREINF. - 8" (DRIVEWAY)
- TRAFFIC DIRECTION ARROW
- EXIST. BUILDING
- DRAINAGE DIRECTION ARROW
- EXIST. CATCH BASIN
- PROPOSED CATCH BASIN
- CLASS "A" SODDING WITH 3" TOPSOIL
- EXIST. FENCE

BENCH	MARKS	ELEV
CBM	→ HYD. S.W. CORNER RUSSELL & FERRY	155.89
CBM	→ HYD. N.E. CORNER RUSSELL & FERRY	155.80
CBM	→ HYD. E. SIDE RUSSELL STA. 31+70	155.71
CBM	→ HYD. E. SIDE RUSSELL STA. 35+93	156.40
CBM	→ HYD. E. SIDE RUSSELL STA. 40+16	155.99

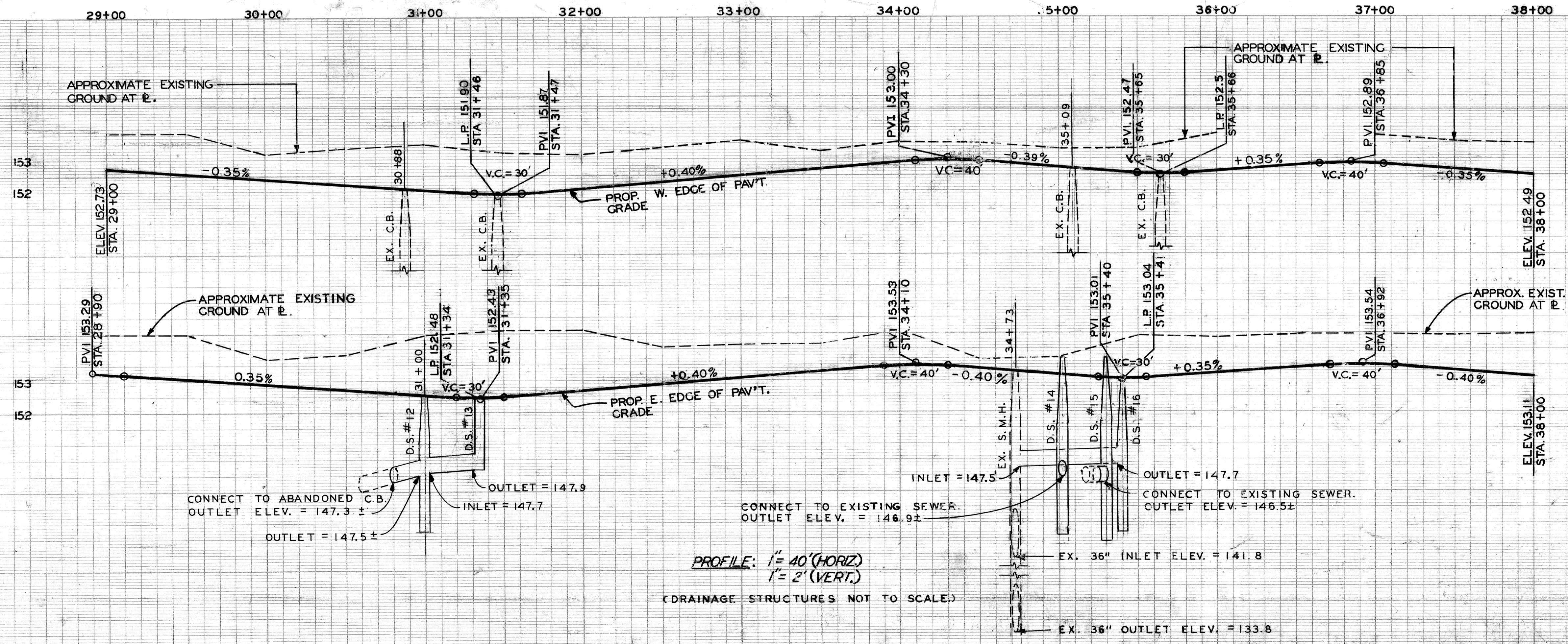


- NOTES**
- FOR UTILITY LEGEND & SYMBOLS, SEE SHEET NO. 25.
 - FOR ALIGNMENT, SEE SHEET NO. 4.
 - FOR DRIVEWAY DETAILS, SEE SHEET NO. 25.
 - PROPOSED DRIVEWAY & ALLEY RADII SHALL BE 10' UNLESS OTHERWISE CALLED FOR ON PLANS.
 - ALL DRAINAGE STRUCTURE COVERS SHALL BE BOLT-DOWN TYPE.

DRAINAGE STRUCTURE (D.S.) NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL (L.F.)		COMMENTS
			LENGTH (FT.)	SIZE (IN.)	CLASS		A	B	
12	CB "B"	T	20	12	C-76-III		20	CONNECT TO ABANDONED EXISTING C.B. OUTLET	
13	CB "A"		30	12	C-76-III		30		
14	CB "B"	T	5	12	C-76-III		5	CONNECT TO EXIST. SEWER	
15	CB "B"	T	5	12	C-76-III		5	CONNECT TO EXIST. SEWER	
16	CB "B"	T	70	12	C-76-III	12	70		

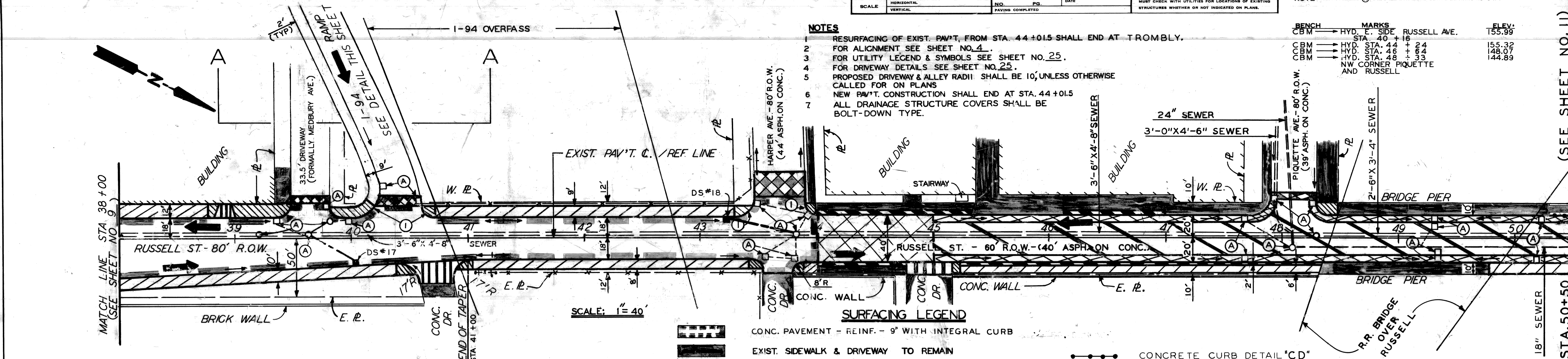
PLAN: 1" = 40'

CITY OF DETROIT - D.P.W.
 RUSSELL - FERRY YARD

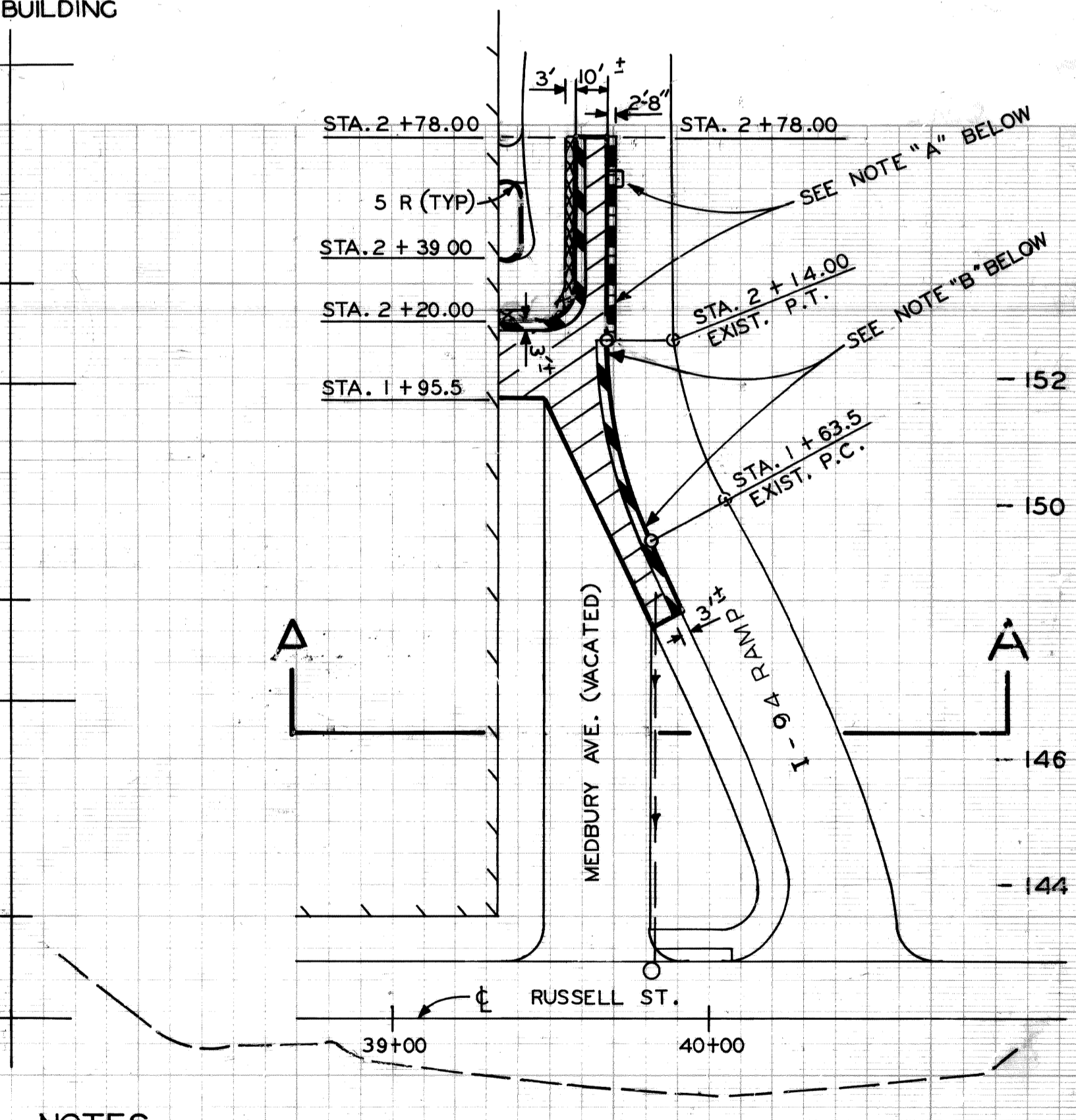
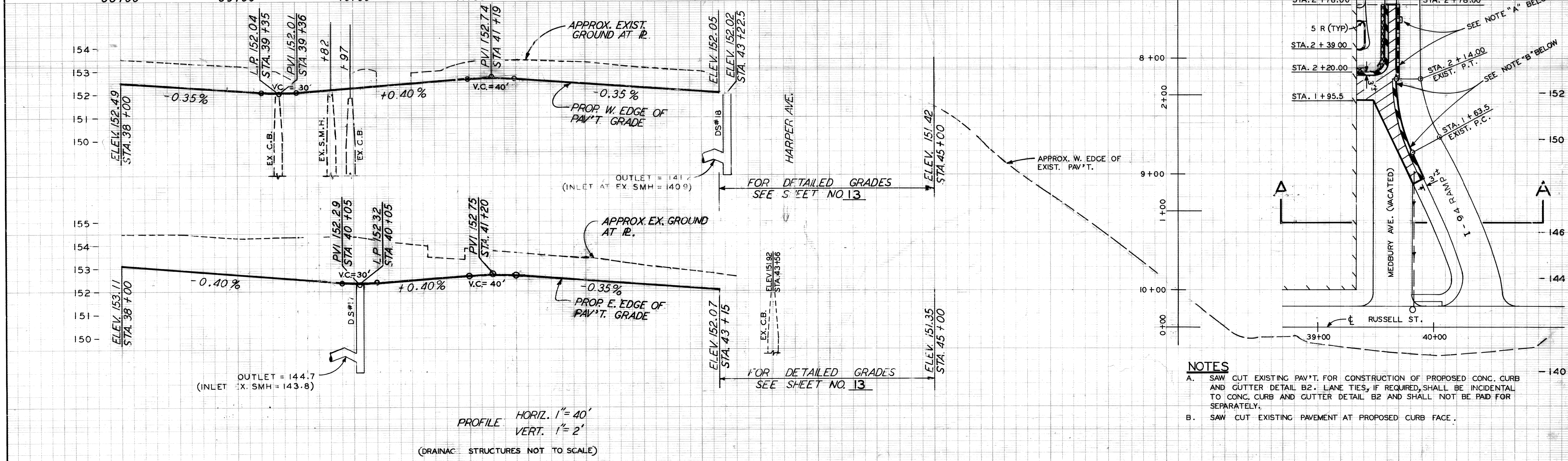


PROFILE: 1" = 40' (HORIZ)
 1" = 2' (VERT.)
 (DRAINAGE STRUCTURES NOT TO SCALE)

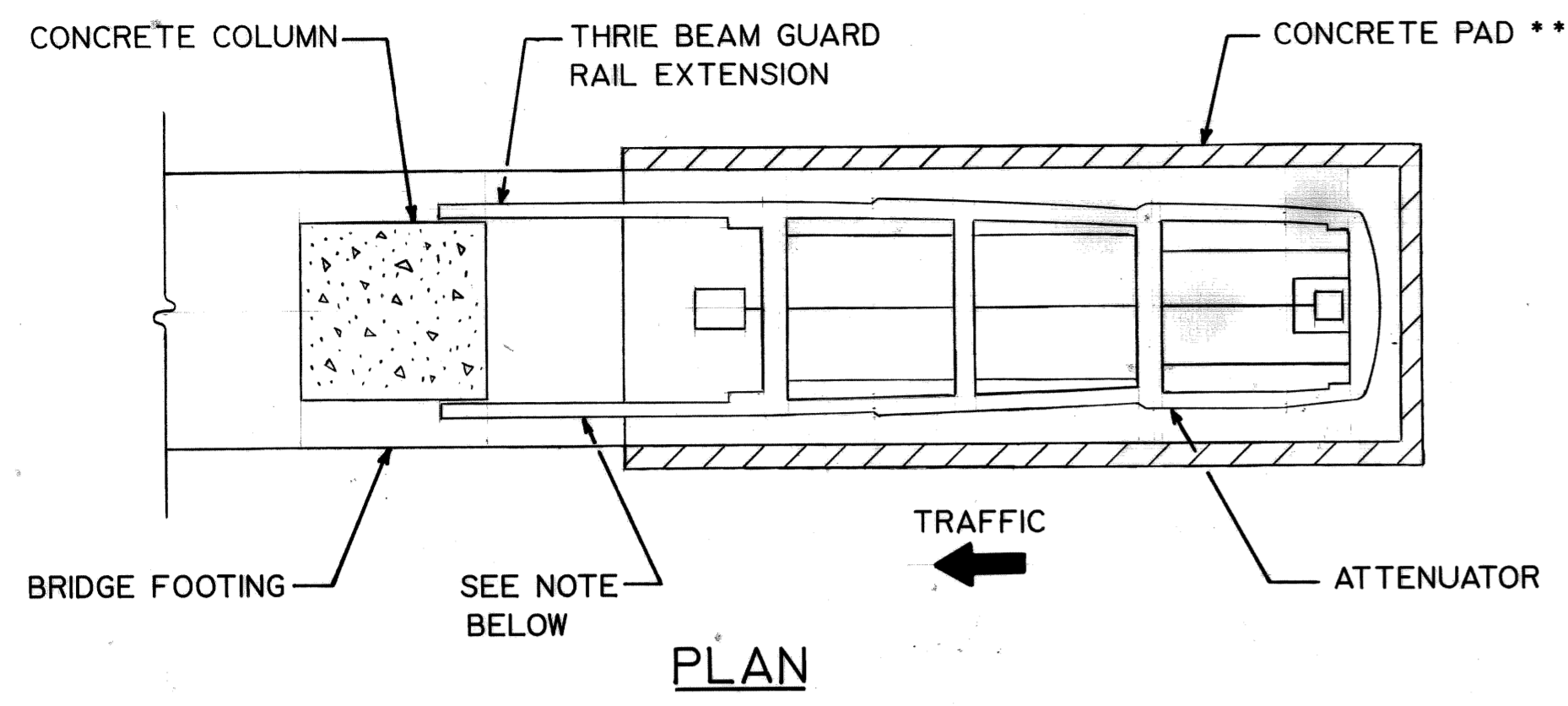
	PLAN	E.O.	UP/WB	APPROVED: <i>William Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY PLAN & PROFILE STA. 29+00 TO STA. 38+00	INDEX NO. SHEET 9 of 65 SHEETS
	GRADE	E.O.	UP/WB	HIGHWAY ENGINEER			CONTRACT NO.
	ESTIMATE						ASSIGNMENT NO. 83-22-12
	DESCRIPTION	DR	CK	AP	VD	DATE	DATE OCT, 1990
	REVISIONS	FINAL	S.J.	REVIEW			



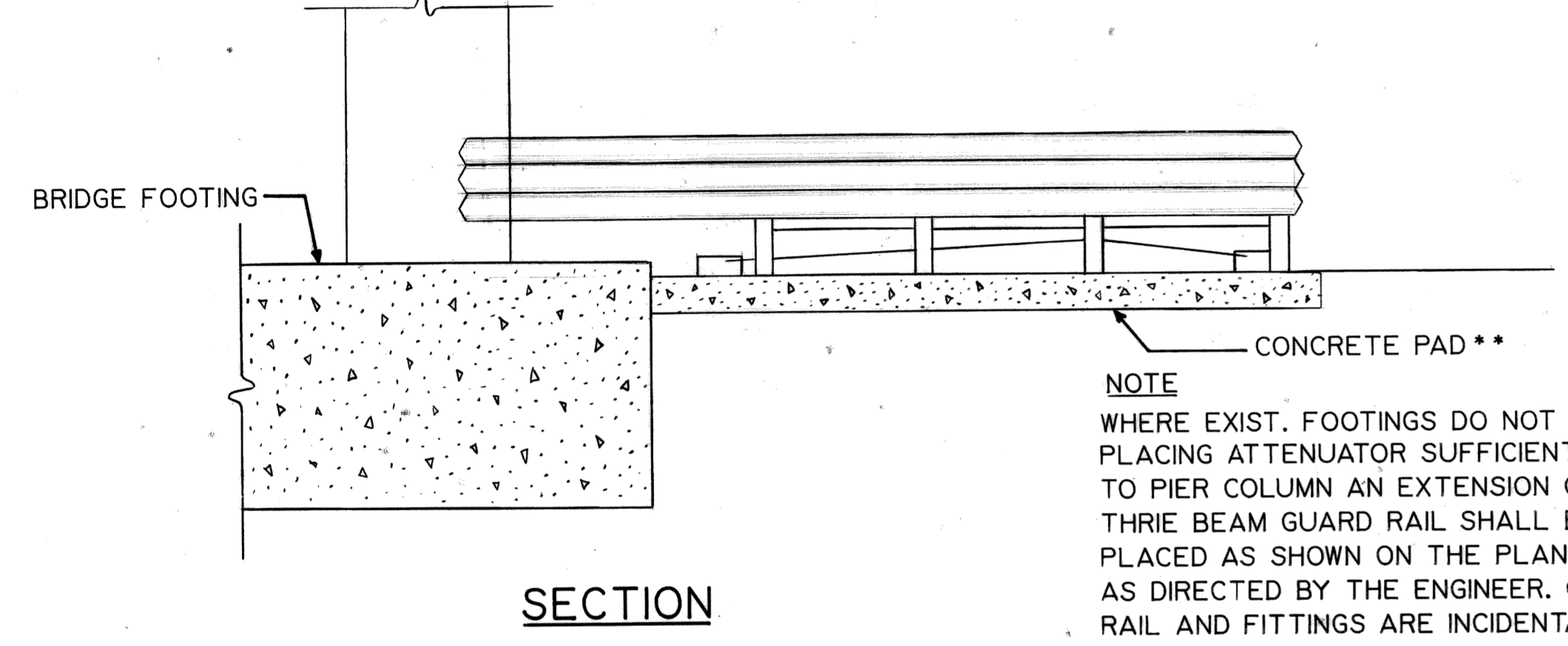
DRAINAGE STRUCTURE (D.S.) NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN)	TRENCH DETAIL (LF)		COMMENTS
			LENGTH (FT)	SIZE (IN)	CLASS		A	B	
17	18" x 12" 'Y'	1/2 TRAP	50	12	C-76-III	12	50	PASSES UNDER 2'-8" WATER MAINS	
18	18" x 12" 'Y'	1/2 TRAP	60	12	C-76-III	12	60	PASSES UNDER DE. PLD. AND 12" WATER	



NOTES
 A. SAW CUT EXISTING PAV'T. FOR CONSTRUCTION OF PROPOSED CONC. CURB AND GUTTER DETAIL B2. LANE TIES, IF REQUIRED, SHALL BE INCIDENTAL TO CONC. CURB AND GUTTER DETAIL B2 AND SHALL NOT BE PAID FOR SEPARATELY.
 B. SAW CUT EXISTING PAV'T. AT PROPOSED CURB FACE.

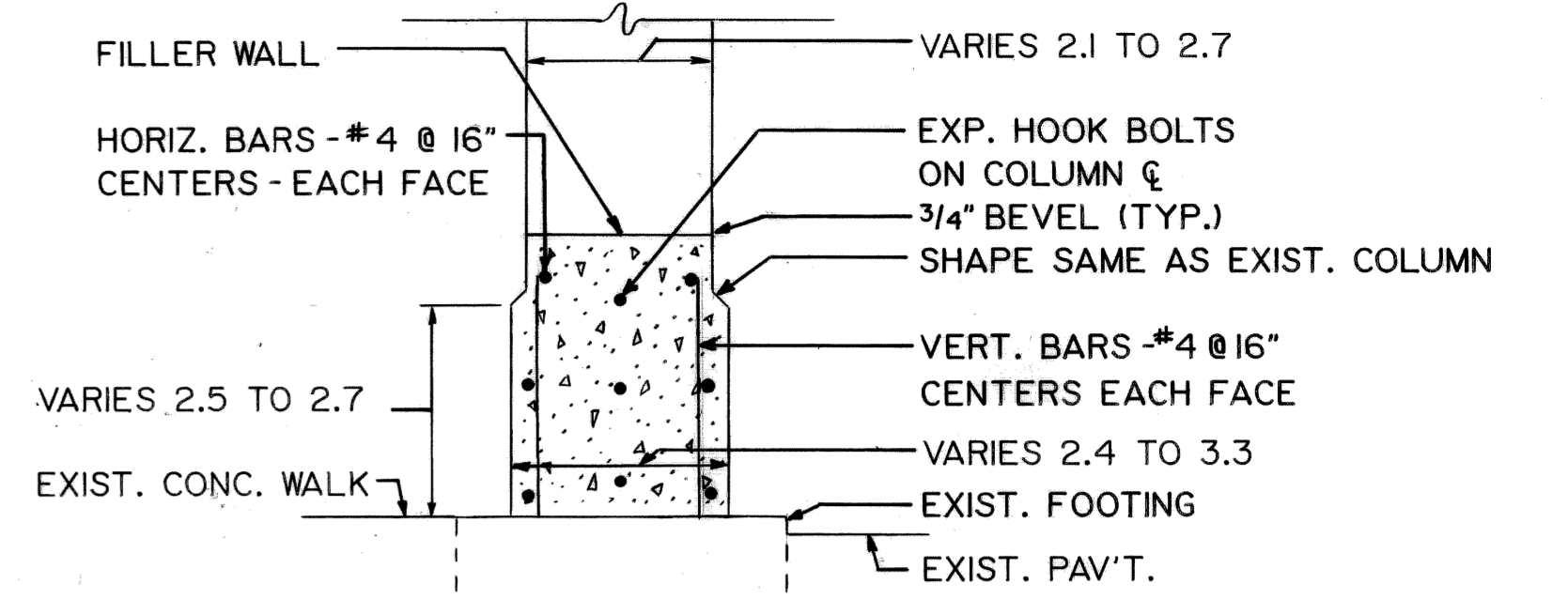
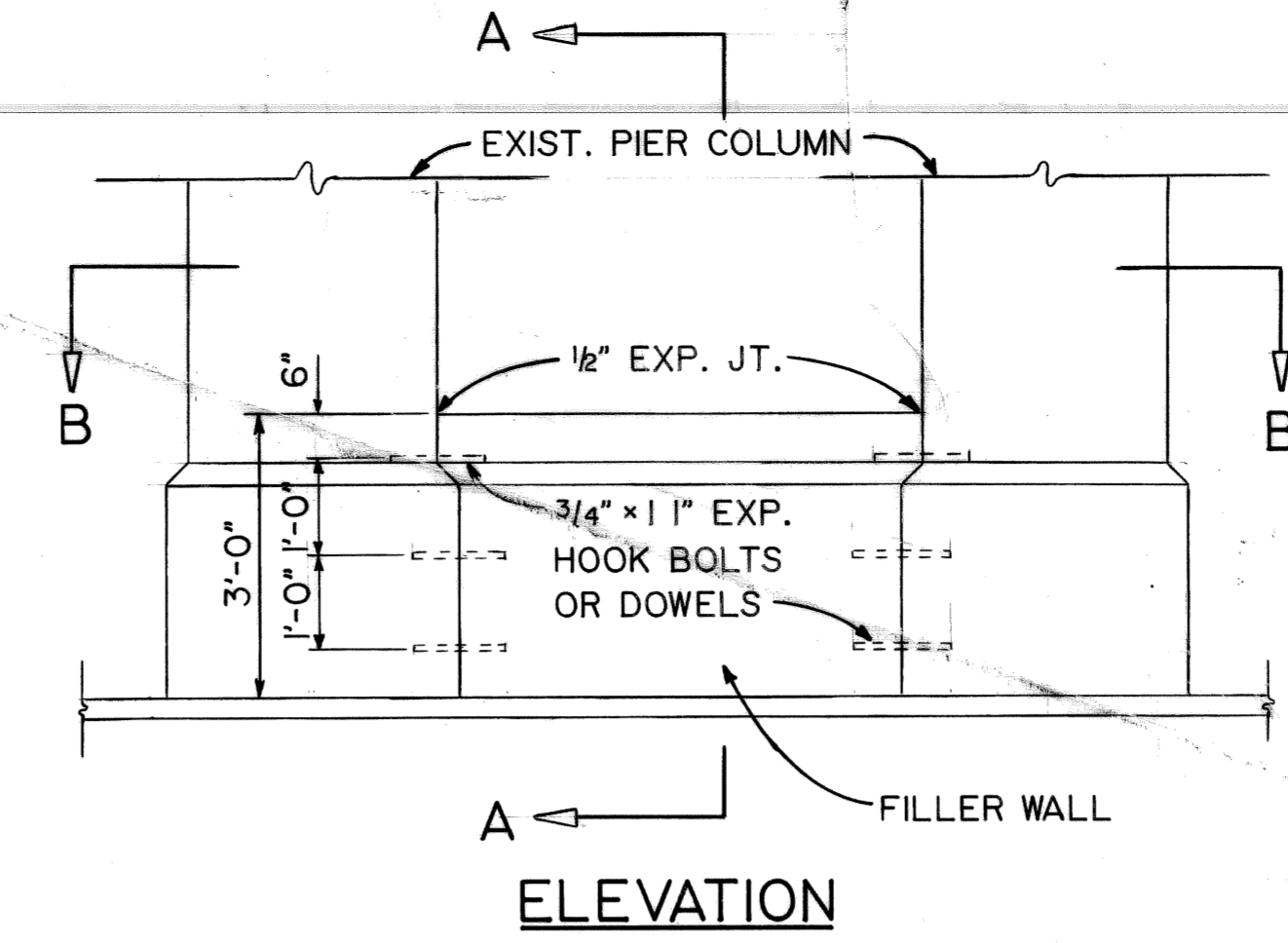


** REMOVE EXISTING SIDEWALK AND PLACE CONCRETE ATTENUATOR PAD FLUSH WITH ADJACENT SIDEWALK.

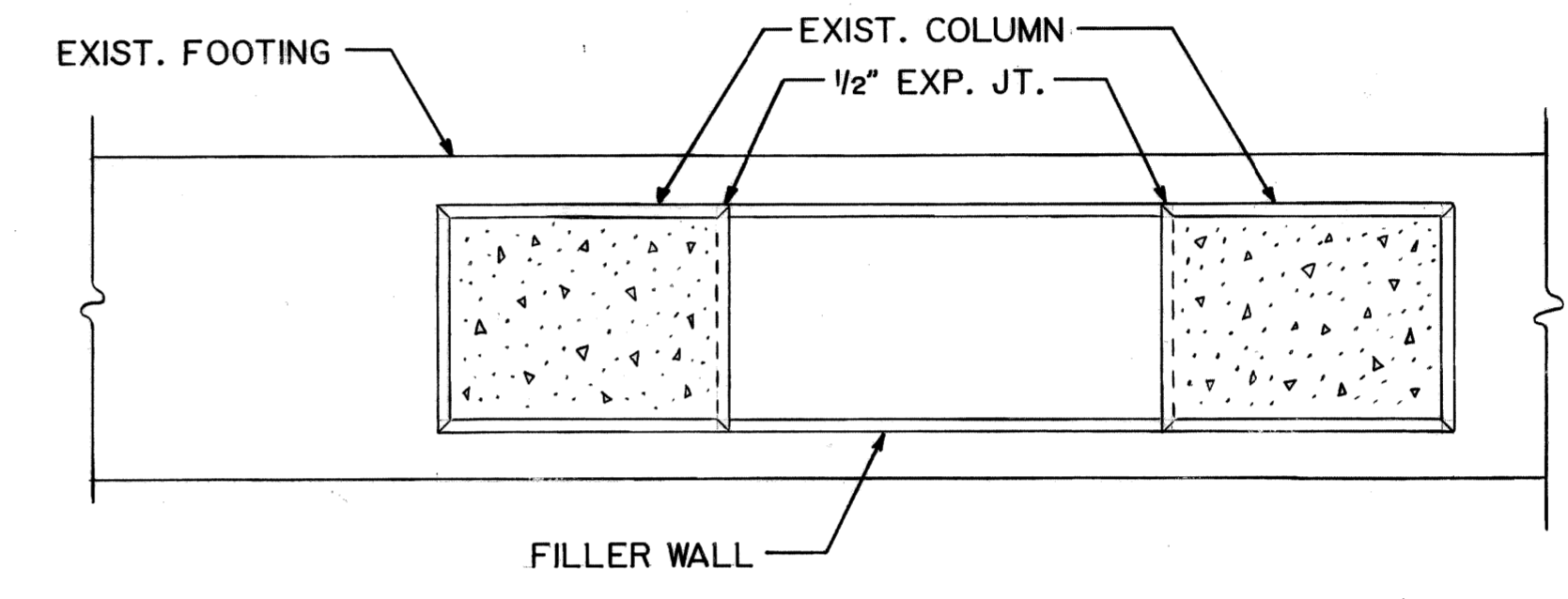


NOTE
WHERE EXIST. FOOTINGS DO NOT PERMIT PLACING ATTENUATOR SUFFICIENTLY CLOSE TO PIER COLUMN AN EXTENSION OF THRIE BEAM GUARD RAIL SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. GUARD RAIL AND FITTINGS ARE INCIDENTAL.

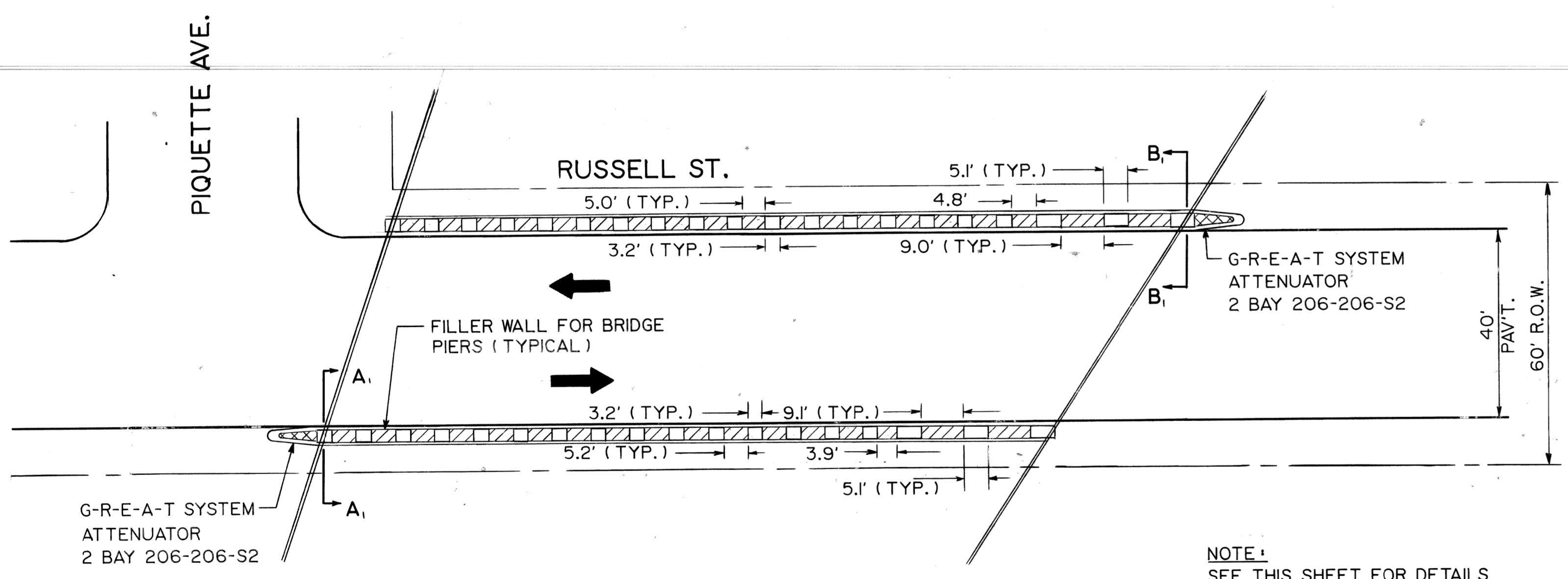
SECTION
ATTENUATOR INSTALLATION



SECTION A - A

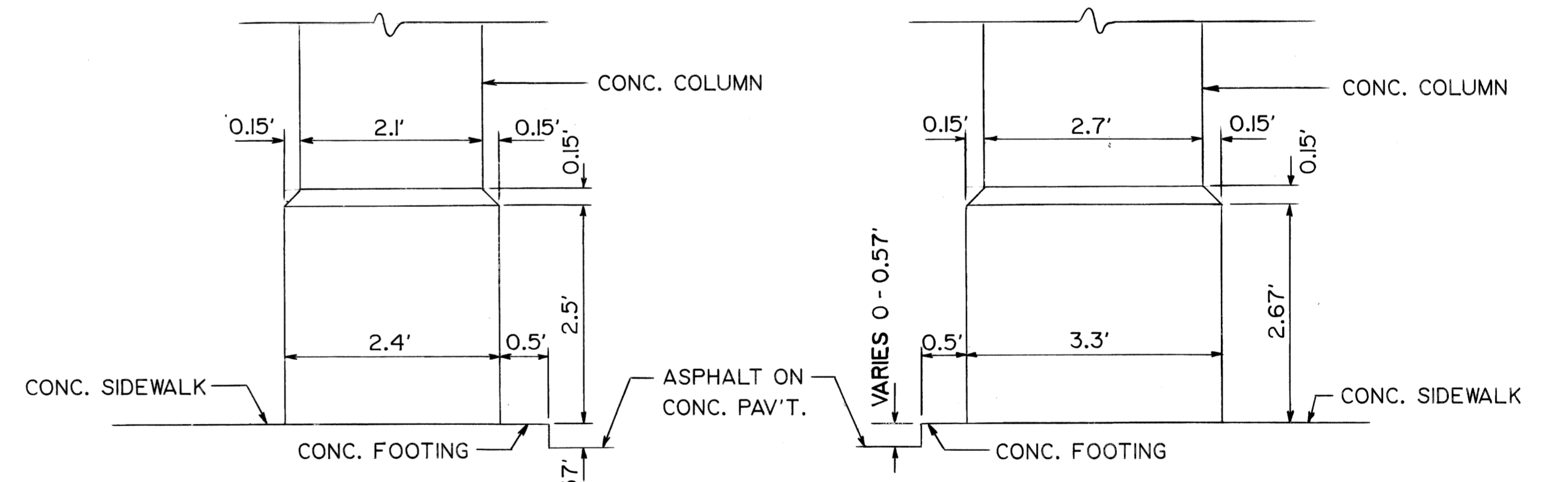


SECTION B - B
FILLER WALL FOR BRIDGE PIER



NOTE:
SEE THIS SHEET FOR DETAILS OF FILLER WALL AND ATTENUATOR INSTALLATION.

PLAN
RUSSELL ST. N. OF PIQUETTE
SCALE 1" = 20'



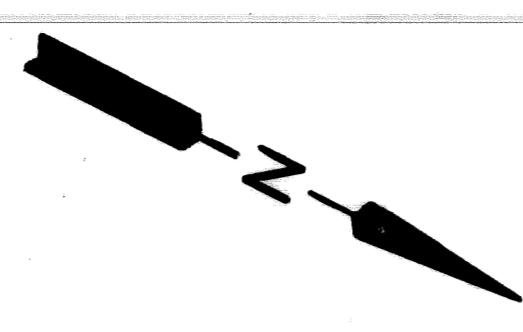
SECTION A - A

SECTION B - B

DESIGNED BY M. K.		APPROVED <i>William R. Talley</i> ENGINEER OF STREETS		CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS			RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY			SHEET 10A OF 65 SHEETS	
DRAWN BY M. K.		HIGHWAY ENGINEER		FOR			ATTENUATORS & FILLER WALLS			CONTRACT NO.	
TRACED BY										ASSIGNMENT NO. 83-22-12	
CHECKED BY N. W.										DATE JULY, 1990	
COORD	DESCRIPTION	DRN	CK'D	AP'D	DATE						
REVISIONS LOCATED BY COORDINATES ON SHEET											

SURFACING LEGEND

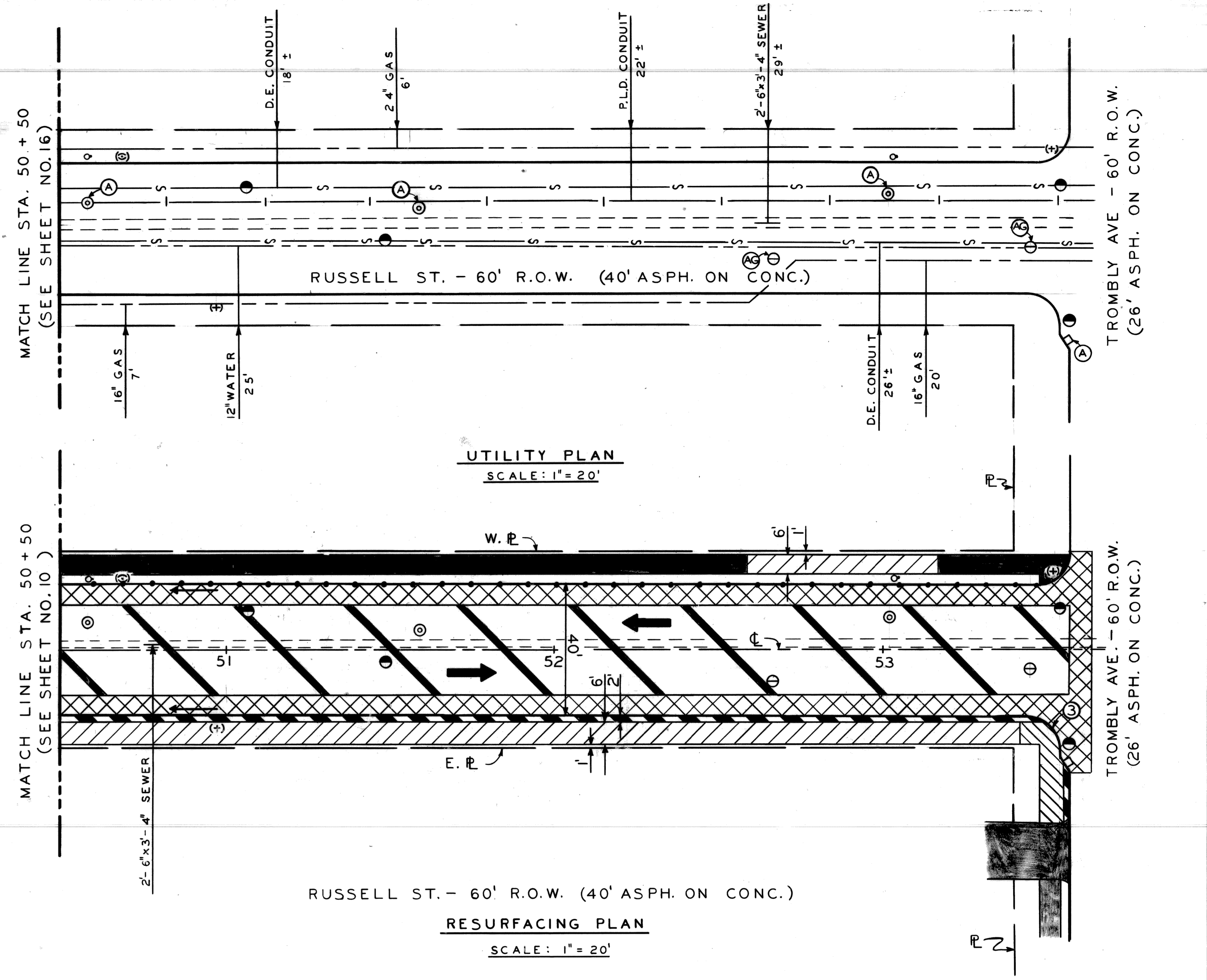
	BITUMINOUS RESURFACING - 2 1/2"
	COLD-MILLING BIT. SUR. AND RESURFACE
	CONC. SIDEWALK - 4"
	CONC. SIDEWALK - 6"
	INTEGRAL CURB AND WALK
	SIDEWALK RAMP TYPE 3
	ADJUSTING STRUCTURE COVERS
	EXIST. CATCH BASIN
	DRAINAGE DIRECTION ARROW
	TRAFFIC DIRECTION ARROW
	CONCRETE CURB DETAIL "CD"



ADJUST GATEWELL COVER ----- (AG)

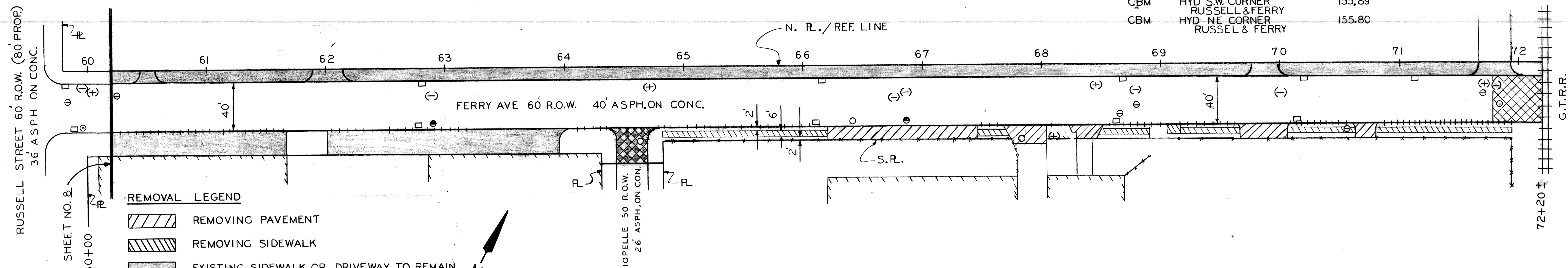
NOTES

1. FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 25.
2. LOCATION OF EXISTING UTILITY LINES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.
3. RESURFACING OF EXIST. PAV'T. FROM STA. 44+01.5 SHALL END AT STA. 53+64 ±.
4. FOR ALIGNMENT SEE SHEET NO. 4.
5. PROPOSED DRIVEWAY AND ALLEY RADII SHALL BE 10' UNLESS OTHERWISE CALLED FOR ON PLANS.
6. FOR TYPICAL SECTION SEE SHEET 2.
7. ALL DRAINAGE STRUCTURE COVERS SHALL BE BOLT-DOWN TYPE.



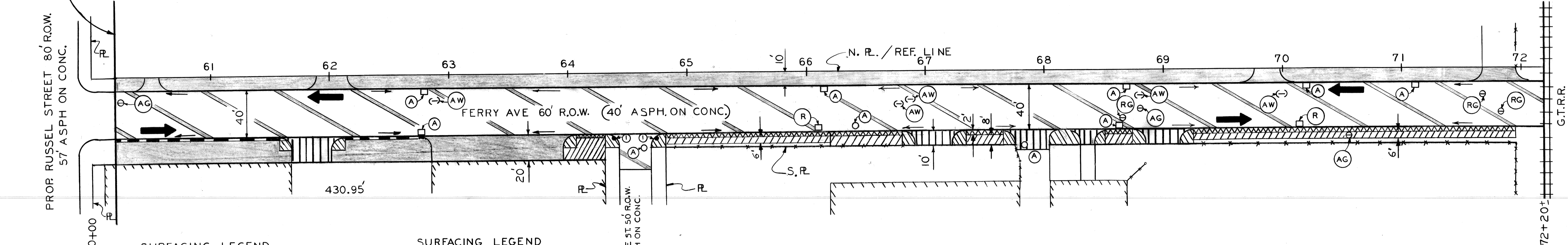
DESIGNED BY		M.K.	APPROVED: ENGINEER OF STREETS HIGHWAY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY UTILITIES AND RESURFACING PLAN STA. 50+50 TO TROMBLY AVE.	SHEET 11 OF 65 SHEETS
DRAWN BY		M.K.				CONTRACT NO.
TRACED BY						ASSIGNMENT NO. 83-22-12
CHECKED BY		N.W.				DATE OCT., 1990
COORD	DESCRIPTION	DRN	CK'D	AP'VD	DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET						
1	2	3	4	5	6	7

BENCH MARKS	ELEV
CBM HYD S.W. CORNER RUSSELL & FERRY	155.89
CBM HYD N.E. CORNER RUSSELL & FERRY	155.80



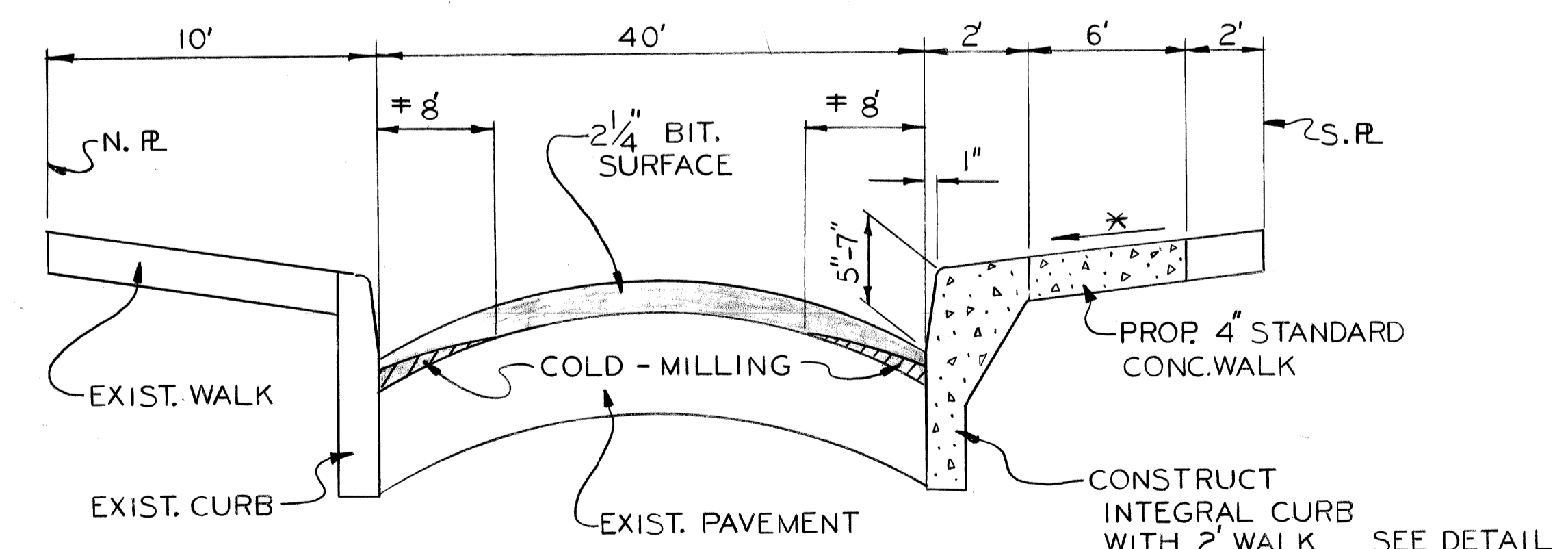
REMOVALS PLAN
SCALE: 1" = 40'

- NOTES
- FOR UTILITY LEGEND AND SYMBOLS SEE SHEET NO. 25.
 - LOCATIONS OF EXIST. UTILITIES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.



RESURFACING PLAN
SCALE: 1" = 40'

- NOTES
- PROP. DRIVE WAY RADII SHALL BE 10' UNLESS OTHERWISE CALLED FOR ON PLAN.
 - FOR DRIVEWAY DETAILS SEE SHEET NO. 25.
 - ALL DRAINAGE STRUCTURE COVERS SHALL BE BOLT-DOWN TYPE.



TYPICAL SECTION
OF FERRY
NO SCALE

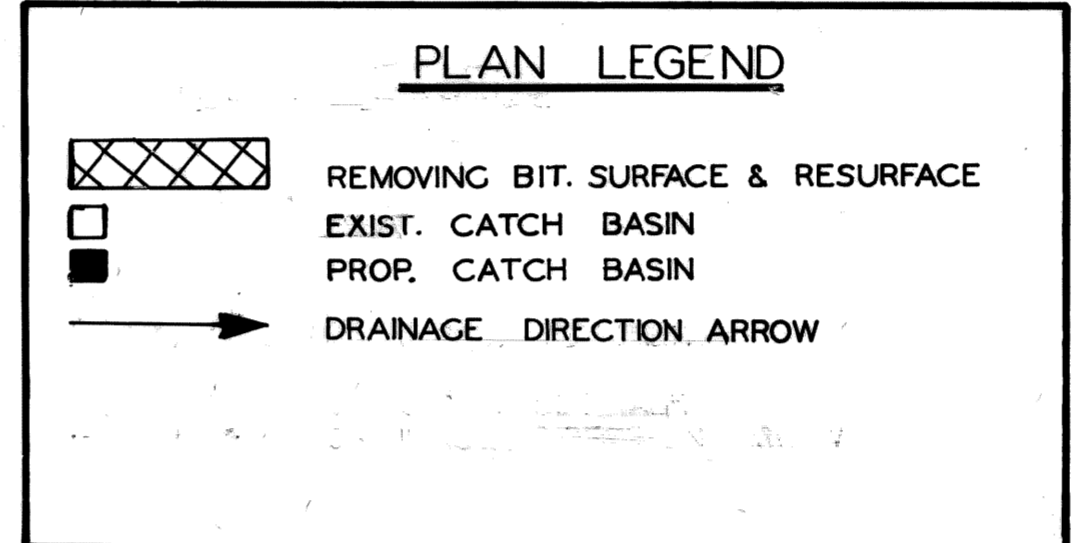
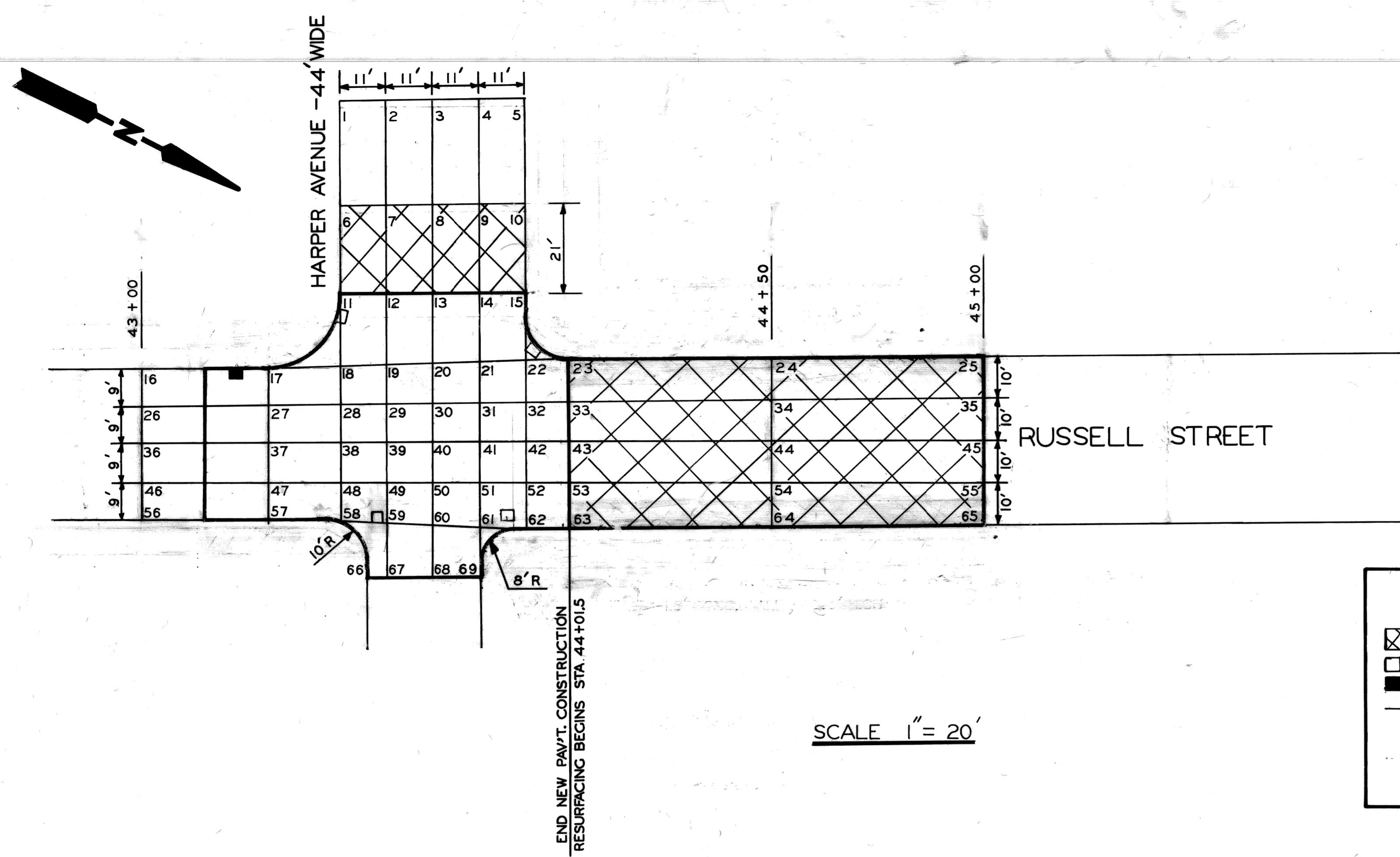
- ≠ COLD MILLING BIT. SURFACE AS NECESSARY
- * SIDEWALK SHALL SLOPE AT 3/8" / FT UNLESS THE ENGINEER DETERMINES OTHERWISE TO MEET EXIST. CONDITIONS.

- REMOVAL LEGEND
- REMOVING PAVEMENT
 - REMOVING SIDEWALK
 - EXISTING SIDEWALK OR DRIVEWAY TO REMAIN
 - REMOVING CURB
 - EXISTING FENCE TO REMAIN

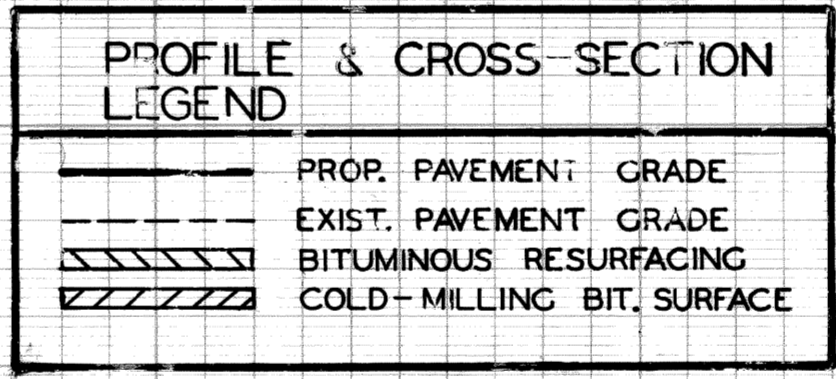
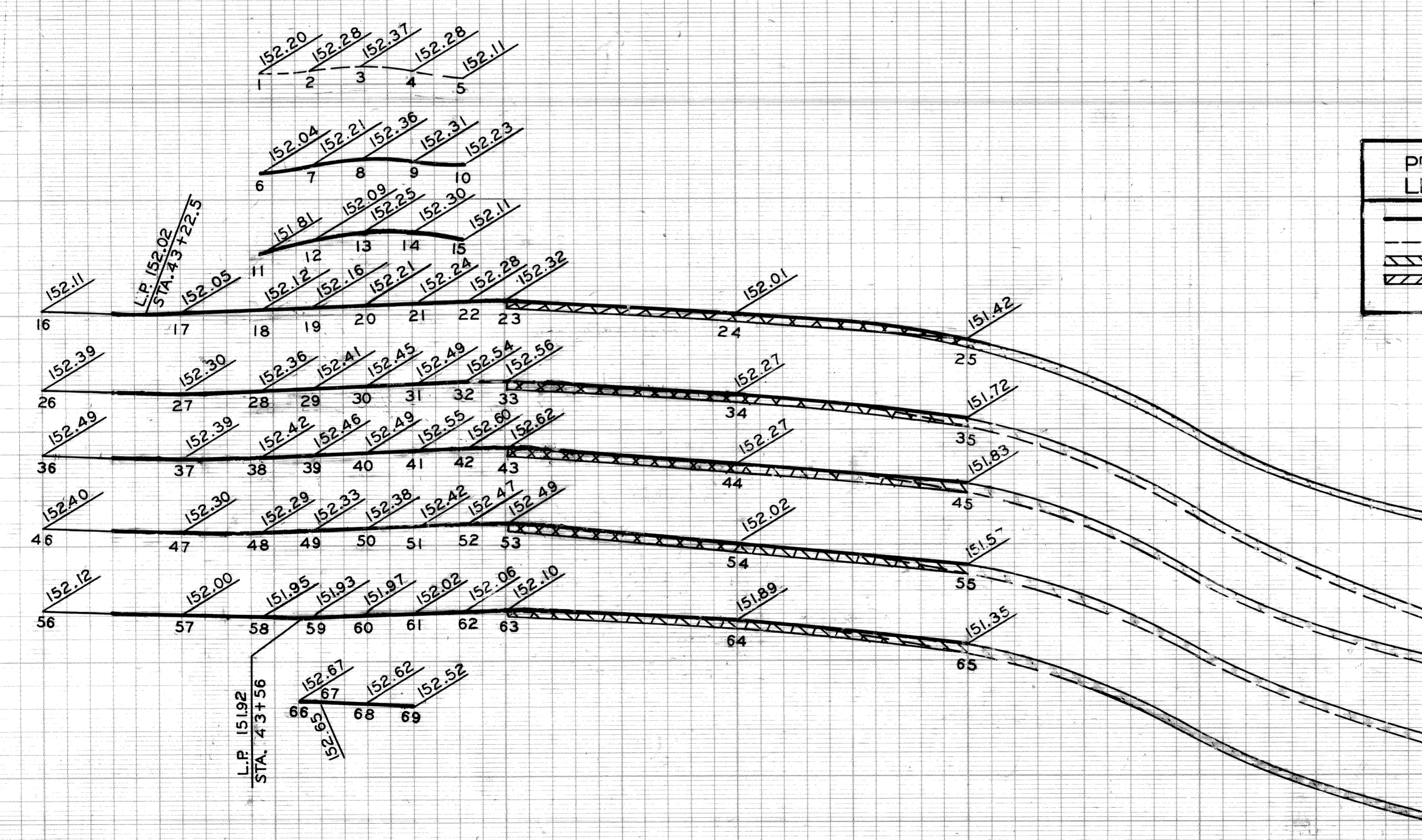
- SURFACING LEGEND
- REMOVE BIT. SURFACE & RESURFACE
 - EXIST SIDEWALK OR DRIVEWAY TO REMAIN
 - COLD MILLING BIT. SURFACE & RESURFACE
 - ROLL OVER CURB SEE DETAIL B 2 SHEET NO. 2
 - INTEGRAL CURB & 4" WALK, 2' WIDE
 - 2 1/4" BIT. RESURFACE
 - CONC. SIDEWALK - 4"
 - CONC. SIDEWALK - 6"
 - EXIST. BUILDING
 - CONC. PAV'T NONREINF. - 8' DRIVEWAY
 - TRAFFIC DIRECTION ARROW
 - DRAINAGE DIRECTION ARROW
 - EXIST. CATCH BASIN
 - ADJUSTING STRUCTURE COVERS
 - RECONSTRUCTING DRAINAGE STRUCTURES
 - ADJUSTING WATER SHUTOFF
 - ADJUST GATE WELL COVER
 - RECONSTRUCT GATEWELL
 - ADJUST P.L.D. HANDHOLE

REVISIONS LOCATED BY COORDINATES ON SHEET 1 2 3 4 5 6 7 8 9 10 11		REFERENCE DRAWINGS DESIGNED BY AP DRAWN BY AP TRACED BY CHECKED BY N.W.	APPROVED: <i>William Talley</i> ENGINEER OF STREETS HIGHWAY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF STREETS AND HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY FERRY AVENUE RESURFACING-RUSSELL TO G.T.R.R. REMOVALS & PLAN	SHEET 12 OF 65 SHEETS CONTRACT NO. ASSIGNMENT NO. 83-22-12 DATE OCT., 1990
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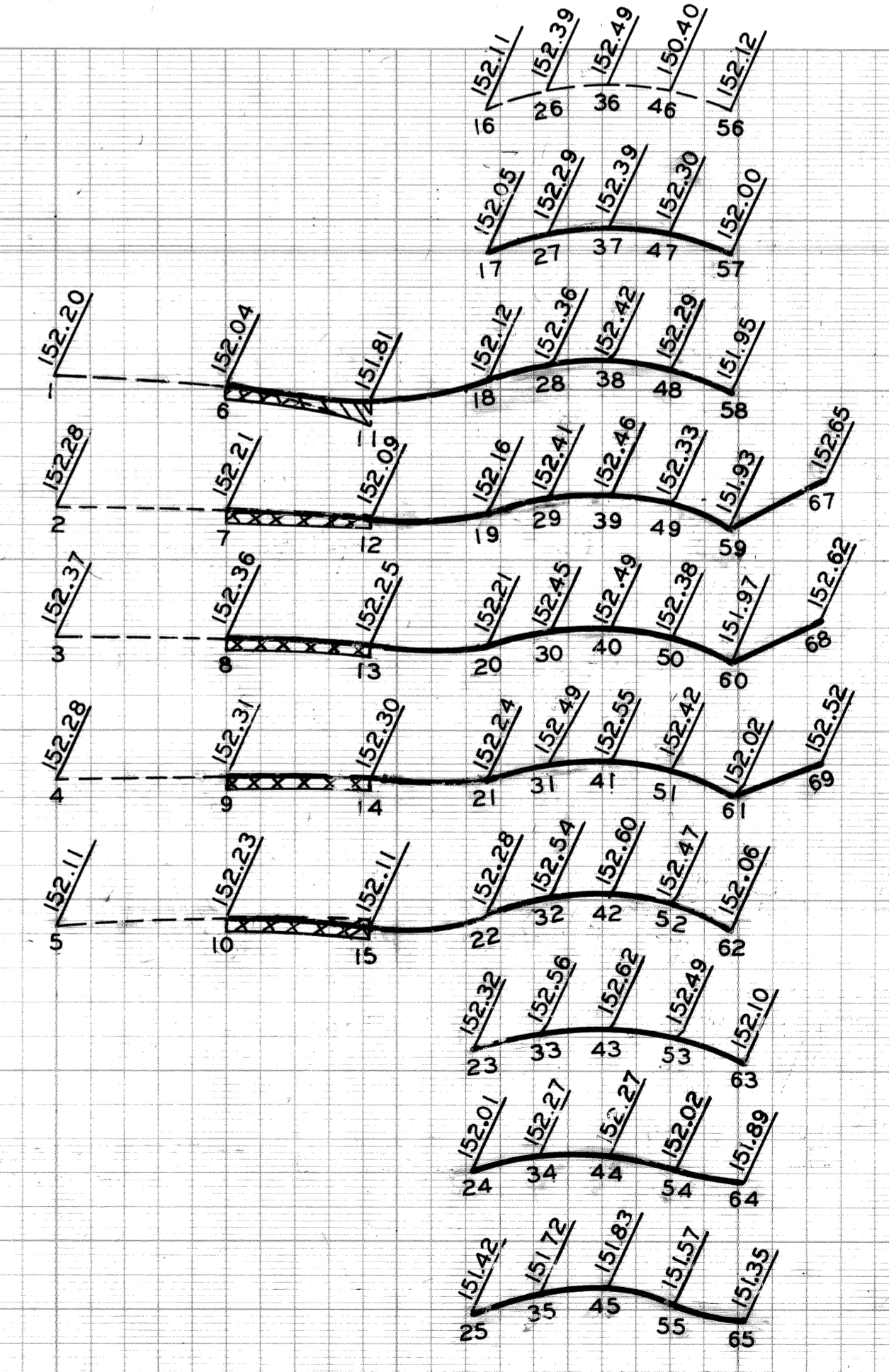
BENCH MARKS ELEV



43+00 44+00 45+00



SCALE
VERT. 1" = 2'
HORIZ. 1" = 20'

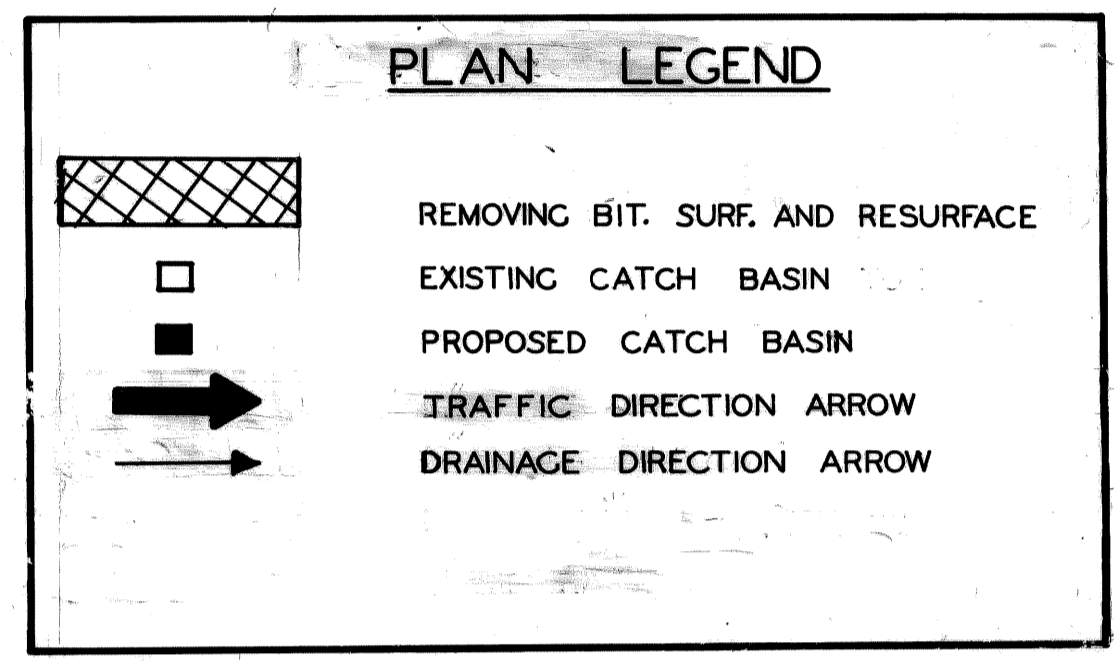
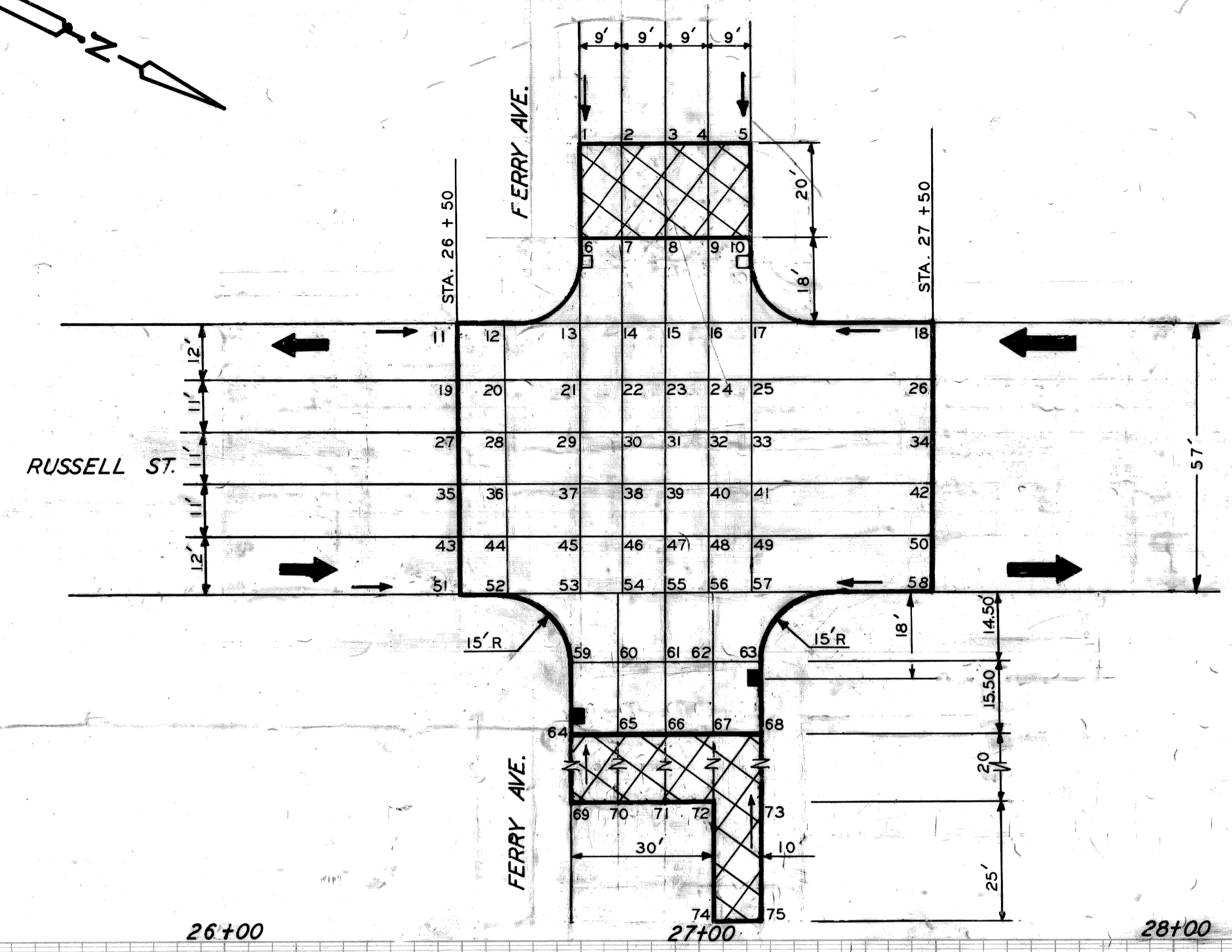
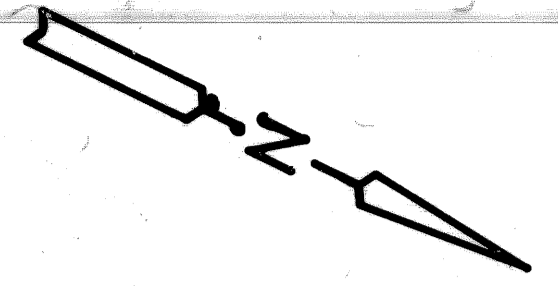


PLAN	E.O.	CHECKED BY	APPROVED
GRADE	E.O.		<i>William Talley</i> ENGINEER OF STREETS
ESTIMATE			HIGHWAY ENGINEER
DESCRIPTION	DRN	CK	AP
REVISIONS	NO.	DATE	

CITY OF DETROIT
CITY ENGINEERING
BUREAUS OF STREETS AND HIGHWAYS

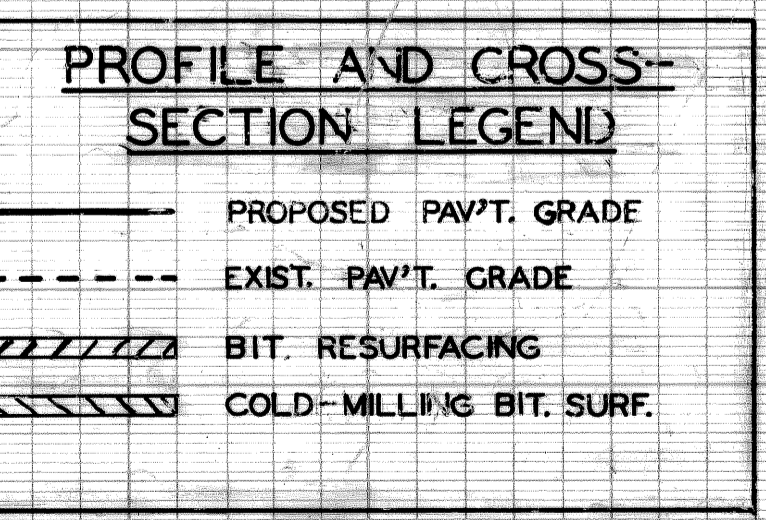
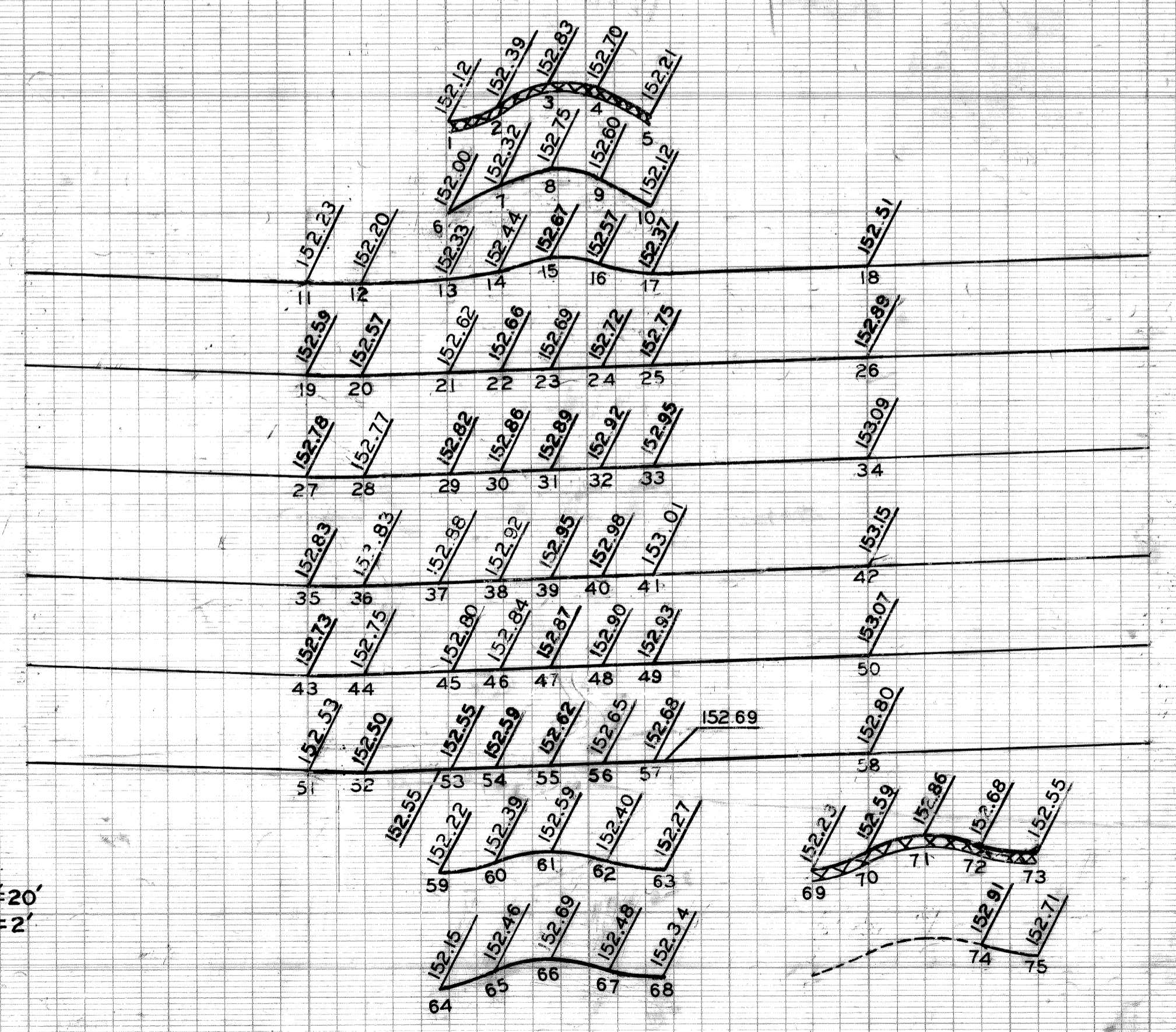
RUSSELL STREET WIDENING
WARREN AVENUE TO TROMBLY
DETAILED GRADES
RUSSELL STREET AT HARPER AVENUE

INDEX NO.	SHEET 13 OF 65 SHEETS
CONTRACT NO.	
ASSIGNMENT NO.	83-22-12
DATE	OCT. 1990

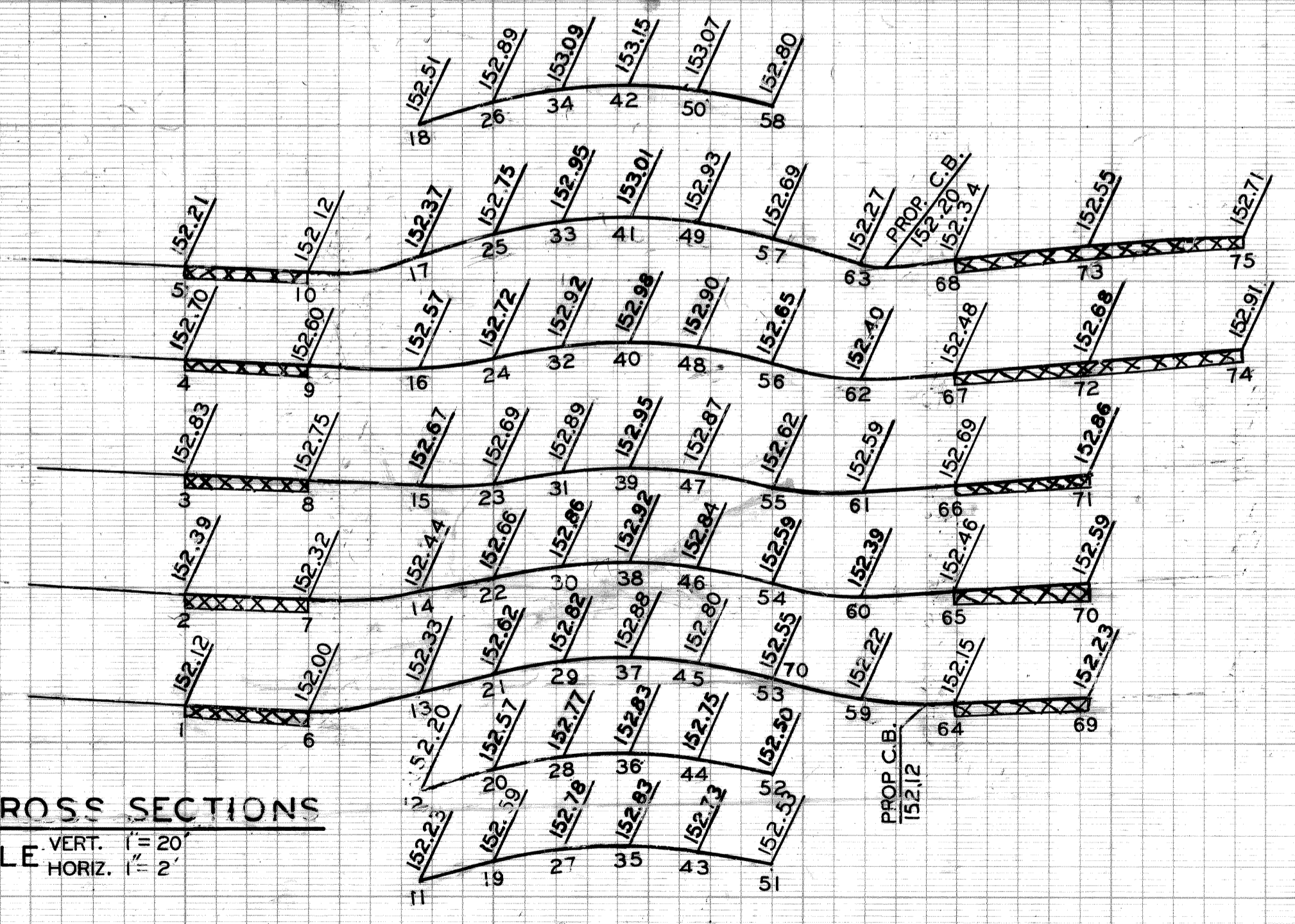


26+00 27+00 28+00

PROFILES
SCALE: HORIZ. 1"=20'
VERT. 1"=2'



CROSS SECTIONS
SCALE VERT. 1"=20'
HORIZ. 1"=2'

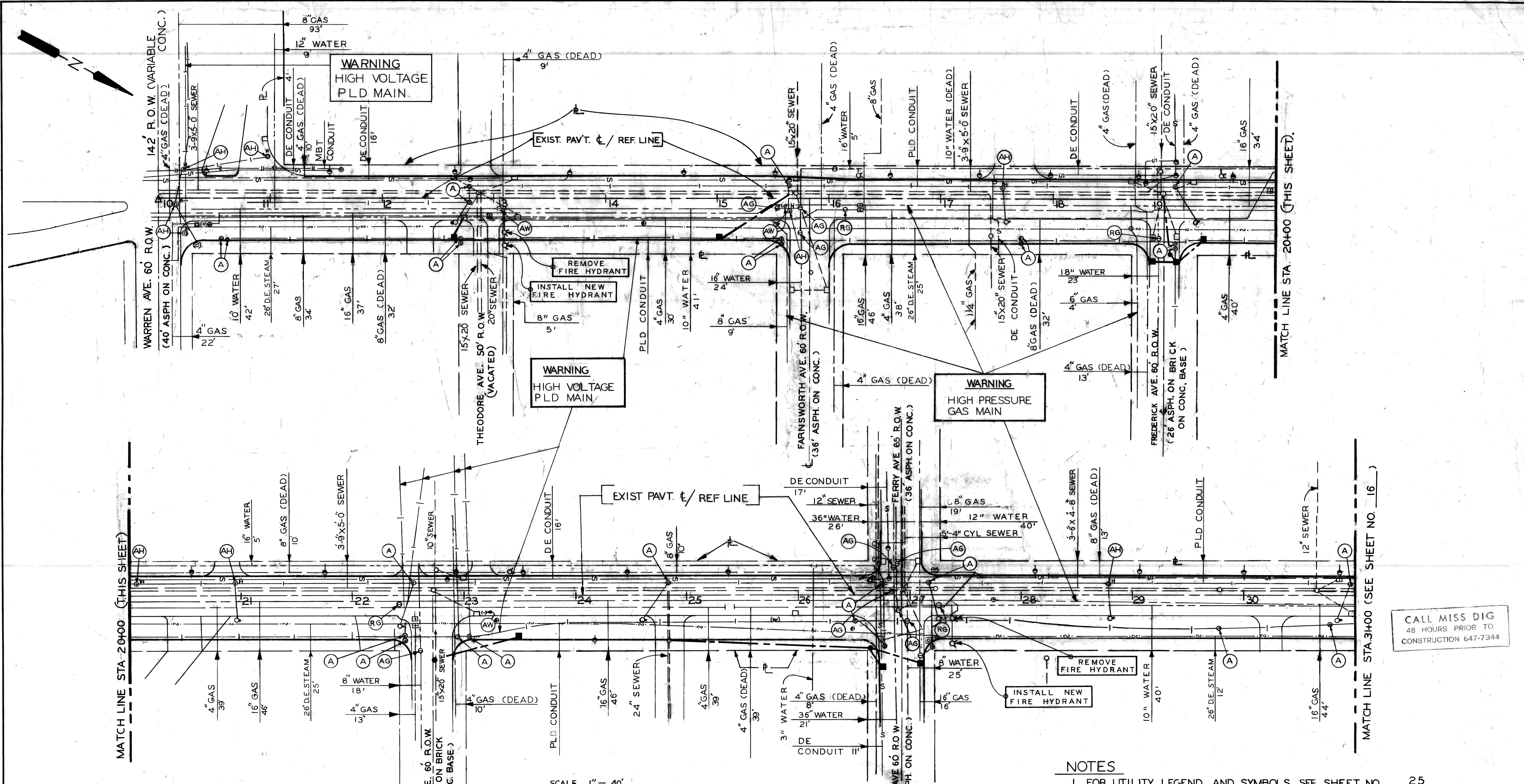


PLAN	E.O.	N.W.	APPROVED: <i>William J. Talley</i> ENGINEER OF STREETS
GRADE	E.O.	N.W.	
ESTIMATE			HIGHWAY ENGINEER
DESCRIPTION	DR N	CH D	AP V D DATE
REVISIONS	FINAL	CHECK	REVIEW

CITY OF DETROIT
CITY ENGINEERING
BUREAUS OF STREETS AND HIGHWAYS
FOR

RUSSELL STREET WIDENING
WARREN AVENUE TO TROMBLY
DETAILED GRADES
RUSSELL STREET AT FERRY AVENUE

INDEX NO.	SHEET 14 of 65 SHEETS
CONTRACT NO.	
ASSIGNMENT NO.	83-22
DATE	OCT. 1950



MATCH LINE STA. 20+00 (THIS SHEET)

MATCH LINE STA. 20+00 (THIS SHEET)

MATCH LINE STA. 31+00 (SEE SHEET NO. 16)

HYDRANT ALTERATION WORK	
PAY ITEM	QUANTITY & UNIT
FIRE HYDRANT*	2 EACH
REMOVE HYDRANT - METHOD I	1 EACH
REMOVE HYDRANT - METHOD II	1 EACH

*Final location of fire hydrants shall be determined by the Detroit Fire Department at the time of construction.

SCALE 1" = 40'

LEGEND

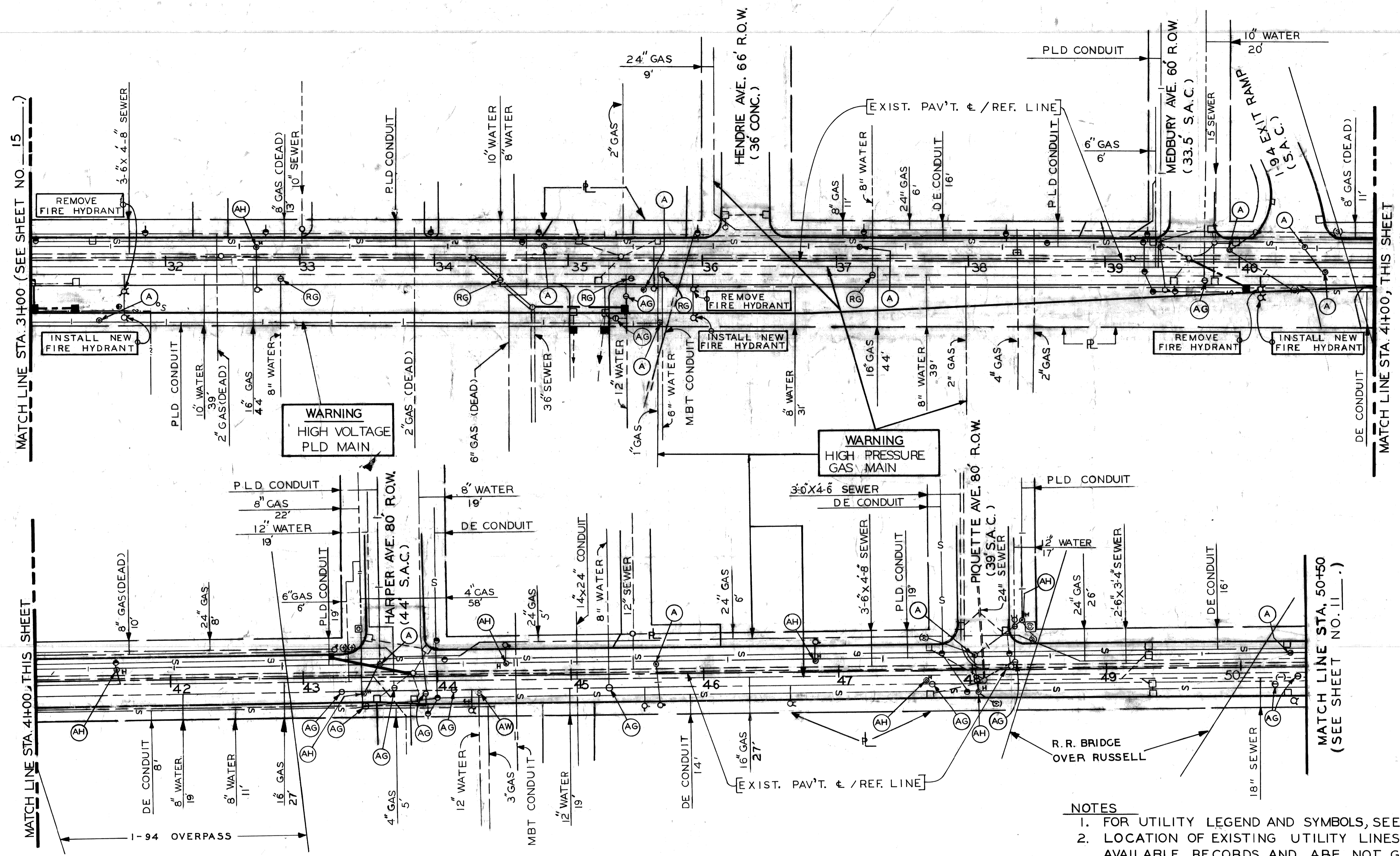
- ADJUSTING WATER SHUTOFFS ----- (AW)
- ADJUST GATE WELL COVER ----- (AG)
- RECONSTRUCT GATE WELL ----- (RG)
- ADJUST P.L.D. MANHOLE ----- (A)
- ADJUST P.L.D. HANDHOLE ----- (AH)

NOTES

- FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 25.
- LOCATION OF EXISTING UTILITY LINES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

DESIGNED BY		DRAWN BY		TRACED BY		CHECKED BY		APPROVED:		CITY OF DETROIT		RUSSELL STREET WIDENING		SHEET 15 OF 65 SHEETS	
		U.P.				N.O.W.		<i>Williams Talley</i>		CITY ENGINEERING		WARREN AVENUE TO TROMBLY		CONTRACT NO.	
								HIGHWAY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS		UTILITIES		ASSIGNMENT NO. 83-22-12	
												WARREN AVE. TO STATION 31+00		DATE OCT, 1990	



CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

- NOTES**
- FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 25.
 - LOCATION OF EXISTING UTILITY LINES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.

SCALE 1"=40'

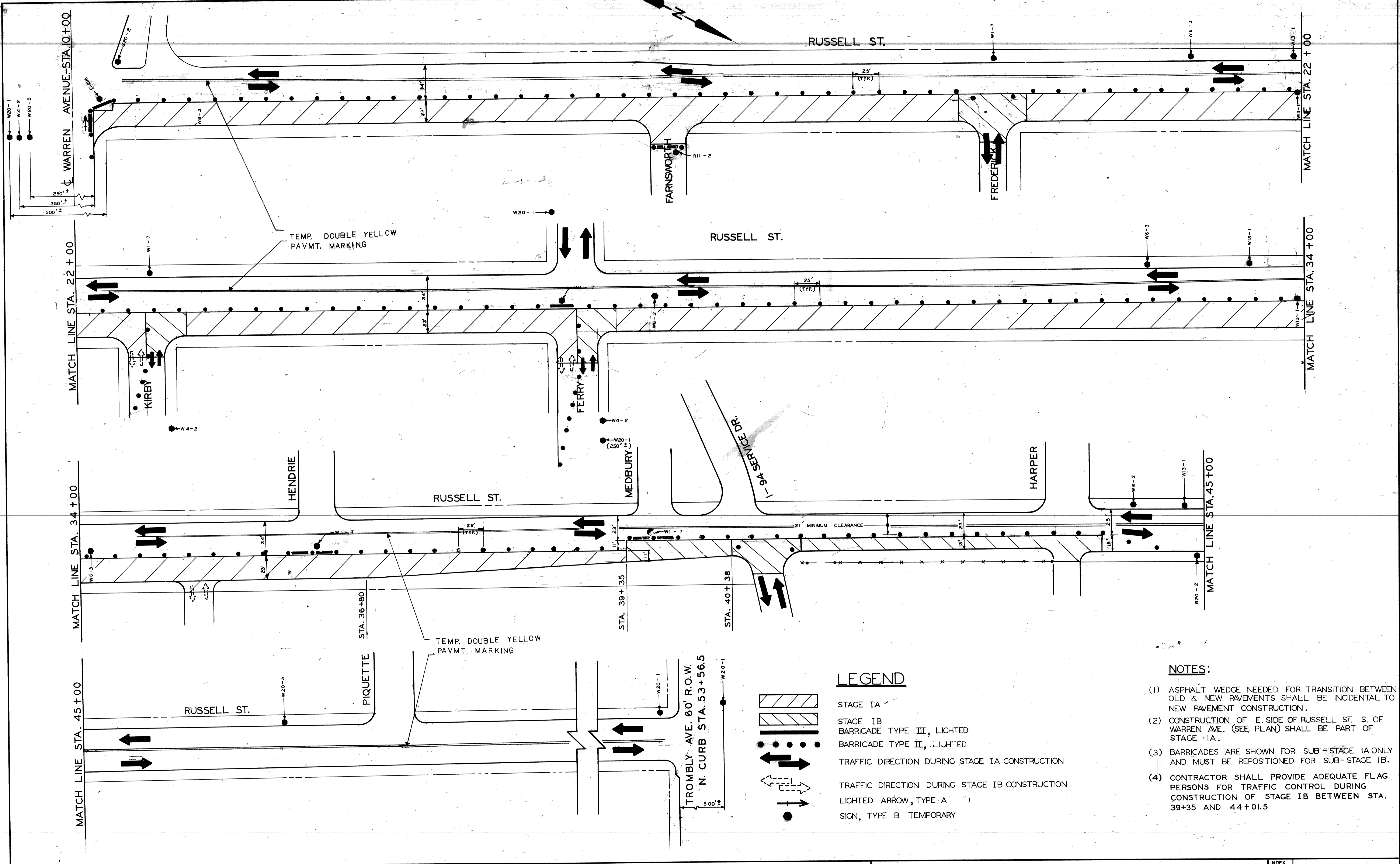
LEGEND

- ADJUSTING WATER SHUTOFFS ----- (AW)
- ADJUST GATE WELL COVER ----- (AG)
- RECONSTRUCT GATEWELL ----- (RG)
- ADJUST P.L.D. MANHOLE ----- (A)
- ADJUST P.L.D. HANDHOLE ----- (AH)

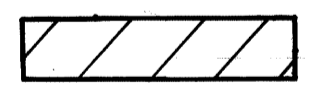
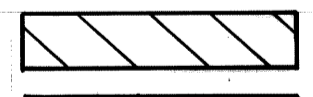


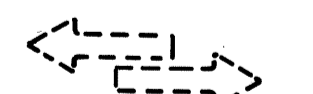
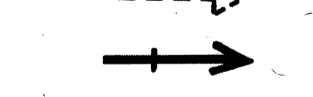


HYDRANT ALTERATION WORK	
PAY ITEM	QUANTITY & UNIT
FIRE HYDRANT *	3 EACH
REMOVE HYDRANT - METHOD I	2 EACH
REMOVE HYDRANT - METHOD II	1 EACH

* Final location of fire hydrants shall be determined by the Detroit Fire Department at the time of construction.

DESIGNED BY	U.P.	APPROVED	<i>William Tally</i>	CITY OF DETROIT CITY ENGINEERING BUREAUS OF STREETS AND HIGHWAYS		RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY	
DRAWN BY		ENGINEER OF STREETS				UTILITIES	
TRACED BY		HIGHWAY ENGINEER				STATION 31+00 TO NORTH OF PIQUETTE AVE.	
CHECKED BY	N.O.W.					SHEET 16 OF 65 SHEETS	
CONTRACT NO.						ASSIGNMENT NO. 83-22-12	
DATE						DATE OCT, 1990	



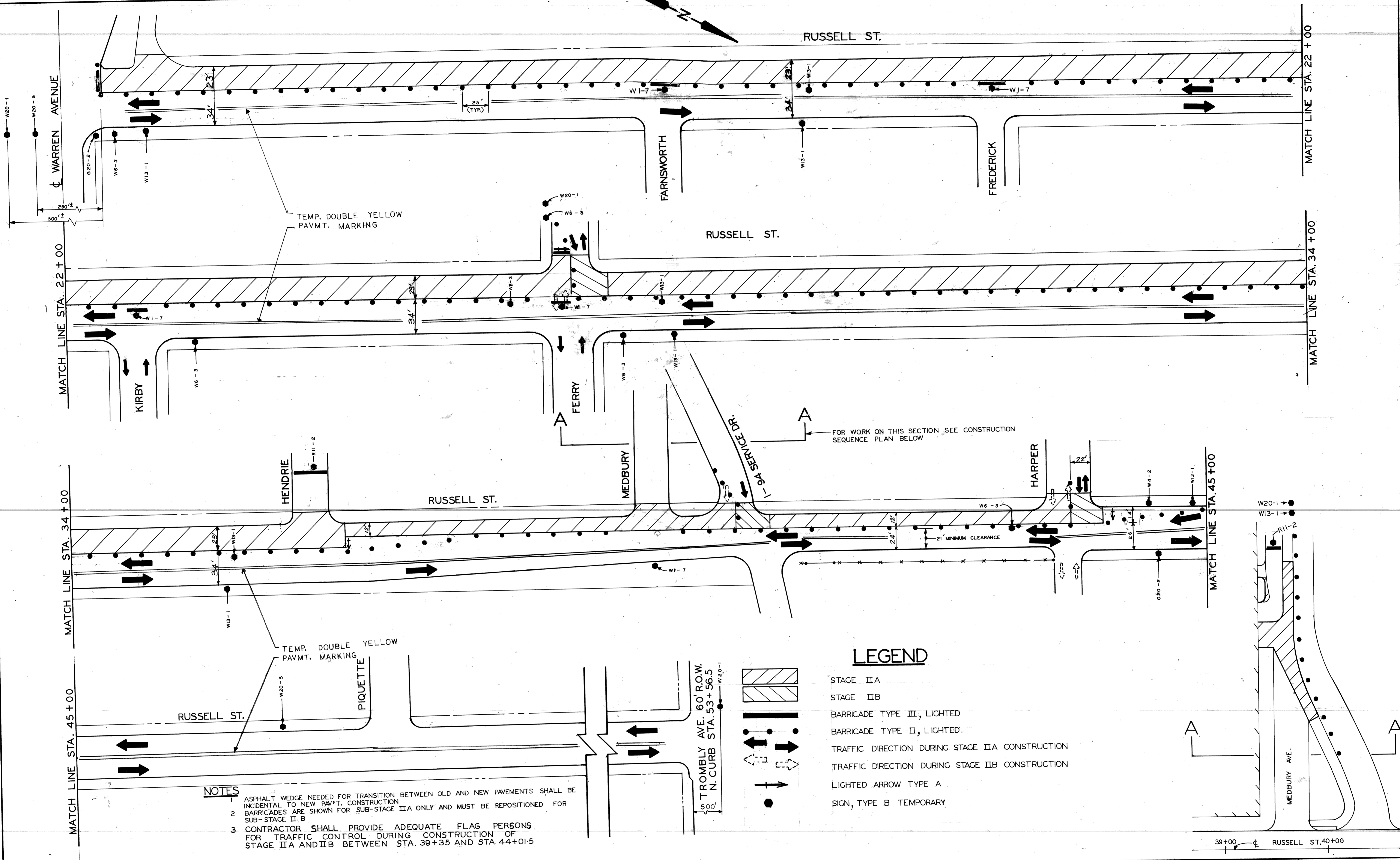
LEGEND

-  STAGE IA
-  STAGE IB
-  BARRICADE TYPE III, LIGHTED
-  BARRICADE TYPE II, LIGHTED
-  TRAFFIC DIRECTION DURING STAGE IA CONSTRUCTION
-  TRAFFIC DIRECTION DURING STAGE IB CONSTRUCTION
-  LIGHTED ARROW, TYPE A
-  SIGN, TYPE B TEMPORARY

NOTES:

- (1) ASPHALT WEDGE NEEDED FOR TRANSITION BETWEEN OLD & NEW PAVEMENTS SHALL BE INCIDENTAL TO NEW PAVEMENT CONSTRUCTION.
- (2) CONSTRUCTION OF E. SIDE OF RUSSELL ST. S. OF WARREN AVE. (SEE PLAN) SHALL BE PART OF STAGE IA.
- (3) BARRICADES ARE SHOWN FOR SUB-STAGE IA ONLY AND MUST BE REPOSITIONED FOR SUB-STAGE IB.
- (4) CONTRACTOR SHALL PROVIDE ADEQUATE FLAG PERSONS FOR TRAFFIC CONTROL DURING CONSTRUCTION OF STAGE IB BETWEEN STA. 39+35 AND 44+01.5

	DESIGNED BY E.O.	APPROVED: <i>William Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY CONSTRUCTION SEQUENCE STAGE IA & IB	INDEX NO.	SHEET 17 OF 65 SHEETS
	DRAWN BY E.O.				CONTRACT NO.	
	CHECKED BY N.W.				ASSIGNMENT NO.	83-22-12
	FINAL REVIEW				SCALE	DATE
DESCRIPTION		DR'N	CK'D	AP'VD	DATE	
REVISIONS						



- NOTES**
- 1 ASPHALT WEDGE NEEDED FOR TRANSITION BETWEEN OLD AND NEW PAVEMENTS SHALL BE INCIDENTAL TO NEW PAV'T. CONSTRUCTION
 - 2 BARRICADES ARE SHOWN FOR SUB-STAGE IIA ONLY AND MUST BE REPOSITIONED FOR SUB-STAGE IIB
 - 3 CONTRACTOR SHALL PROVIDE ADEQUATE FLAG PERSONS FOR TRAFFIC CONTROL DURING CONSTRUCTION OF STAGE IIA AND IIB BETWEEN STA. 39+35 AND STA. 44+01.5

LEGEND

- STAGE IIA
- STAGE IIB
- BARRICADE TYPE III, LIGHTED
- BARRICADE TYPE II, LIGHTED
- TRAFFIC DIRECTION DURING STAGE IIA CONSTRUCTION
- TRAFFIC DIRECTION DURING STAGE IIB CONSTRUCTION
- LIGHTED ARROW TYPE A
- SIGN, TYPE B TEMPORARY

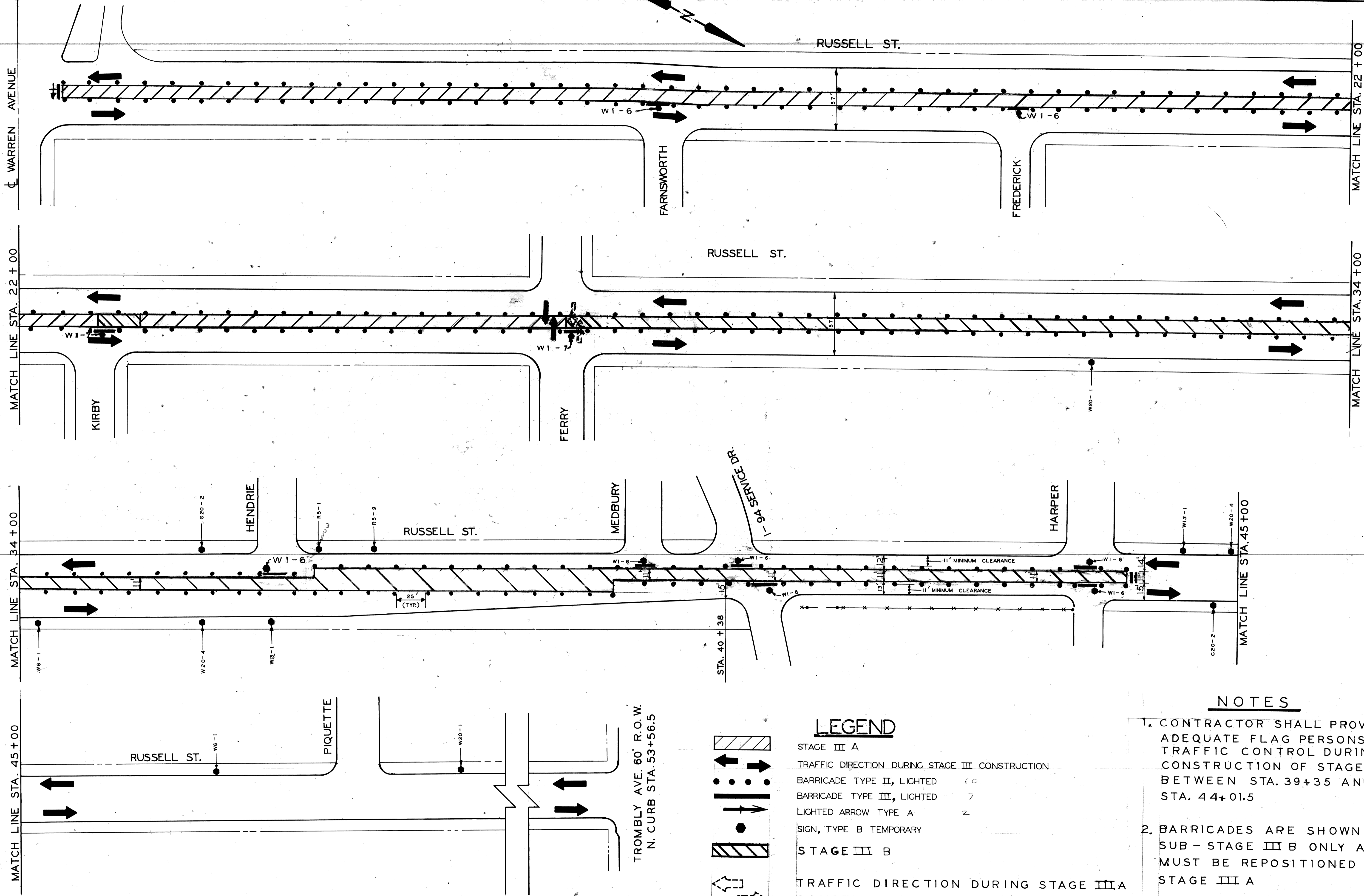
DESCRIPTION	DRN	CHK'D	AP'D	DATE

DESIGNED BY	E.O.	APPROVED:	<i>William Tally</i>
DRAWN BY	E.O.	ENGINEER OF STREETS	
CHECKED BY	N.W.		
FINAL REVIEW			

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAU OF HIGHWAYS

RUSSELL STREET WIDENING
WARREN AVENUE TO TROMBLY
CONSTRUCTION SEQUENCE
STAGE IIA & IIB

INDEX NO.	SHEET 18 OF 65 SHEETS
CONTRACT NO.	
ASSIGNMENT NO.	83-22-12
SCALE	1" = 40'
DATE	OCT, 1990



LEGEND

- STAGE III A
- TRAFFIC DIRECTION DURING STAGE III CONSTRUCTION
- BARRICADE TYPE II, LIGHTED 60
- BARRICADE TYPE III, LIGHTED 7
- LIGHTED ARROW TYPE A 2
- SIGN, TYPE B TEMPORARY
- STAGE III B
- TRAFFIC DIRECTION DURING STAGE III A CONSTRUCTION ON FERRY

NOTES

1. CONTRACTOR SHALL PROVIDE ADEQUATE FLAG PERSONS FOR TRAFFIC CONTROL DURING CONSTRUCTION OF STAGE III B BETWEEN STA. 39+35 AND STA. 44+01.5
2. BARRICADES ARE SHOWN FOR SUB-STAGE III B ONLY AND MUST BE REPOSITIONED FOR STAGE III A

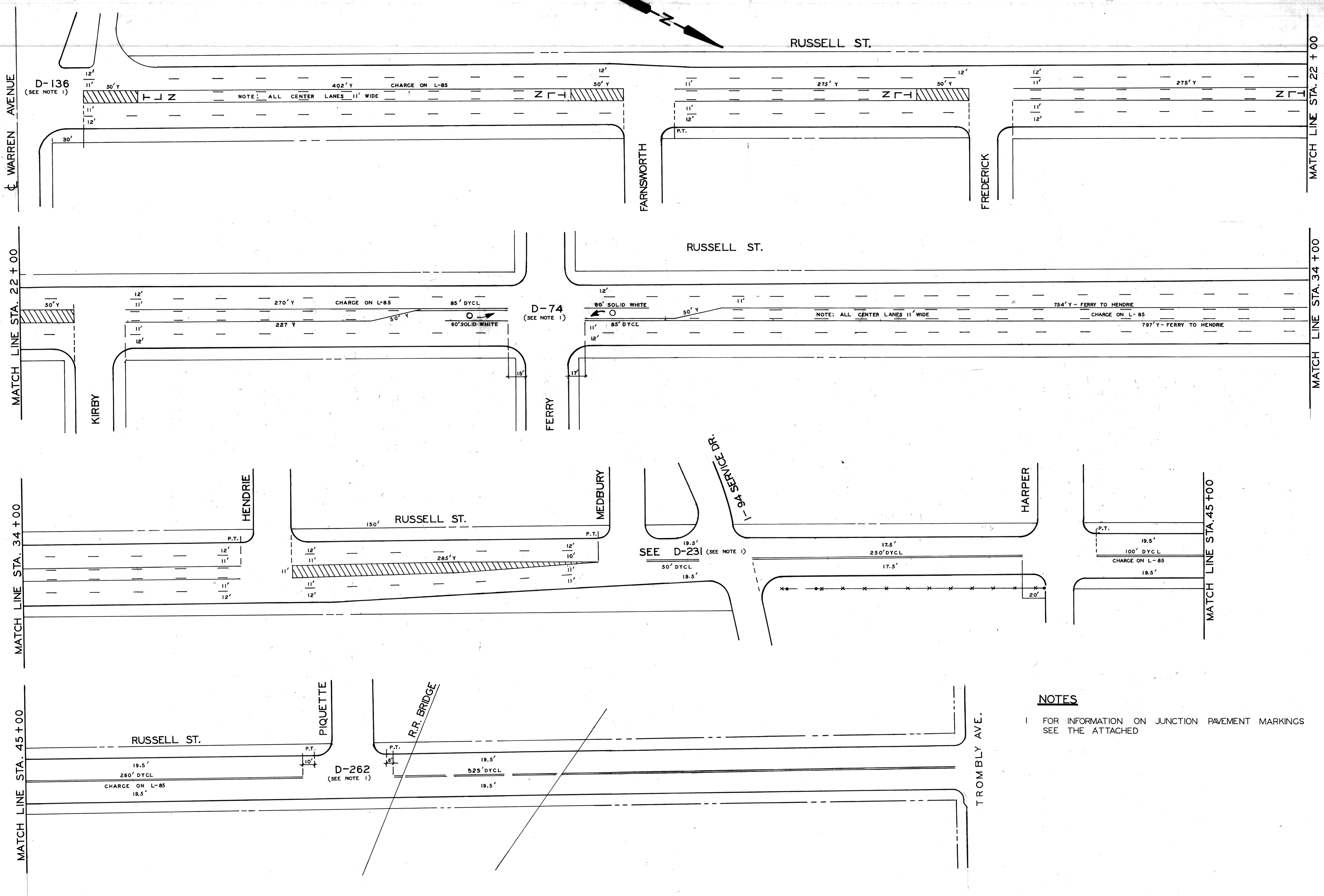
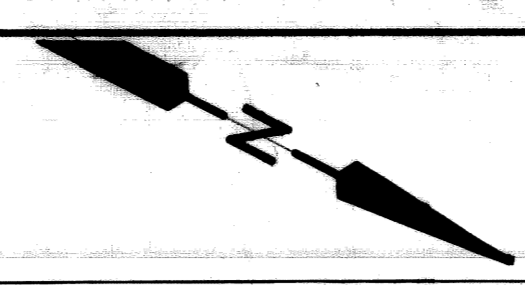
DESCRIPTION	DRN	CK'D	AP'D	DATE

DESIGNED BY	E.O.	APPROVED:	
DRAWN BY	E.O.	ENGINEER OF STREETS	
CHECKED BY	N.W.		
FINAL REVIEW			

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAU OF HIGHWAYS

RUSSELL STREET WIDENING
 WARREN AVENUE TO TROMBLY
 CONSTRUCTION SEQUENCE
 STAGE III

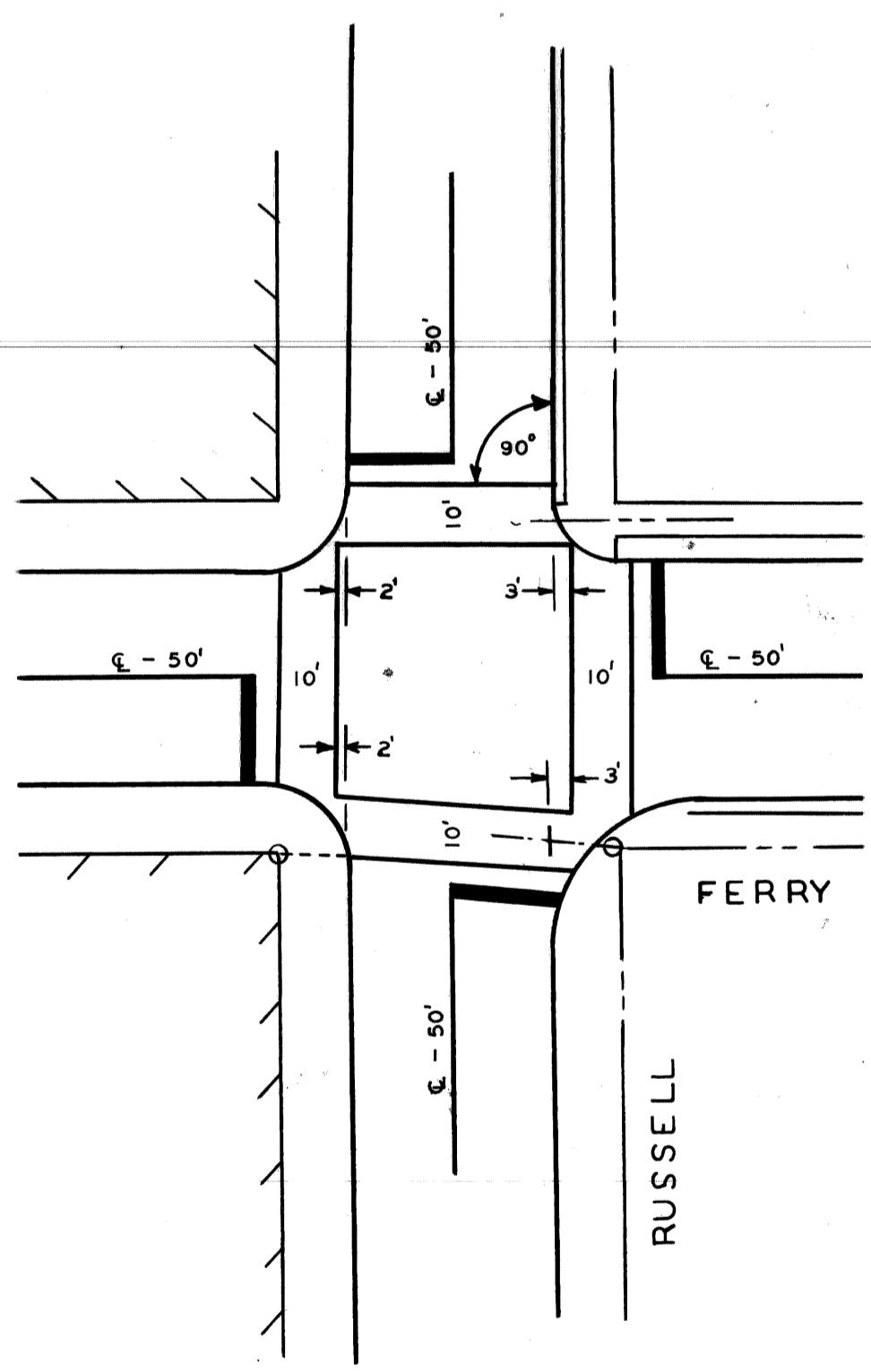
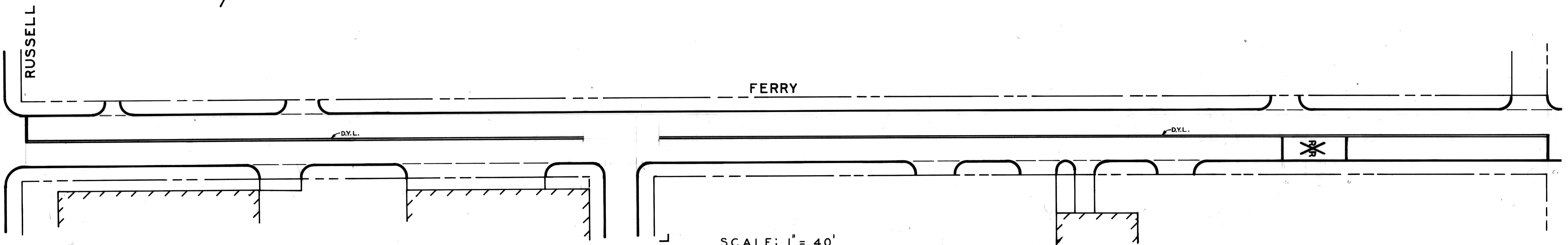
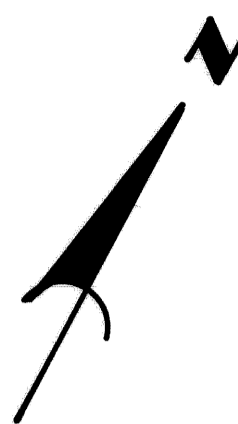
INDEX NO.	SHEET 19 OF 65 SHEETS
CONTRACT NO.	
ASSIGNMENT NO.	83-22-12
SCALE	1" = 40'
DATE	OCT., 1990



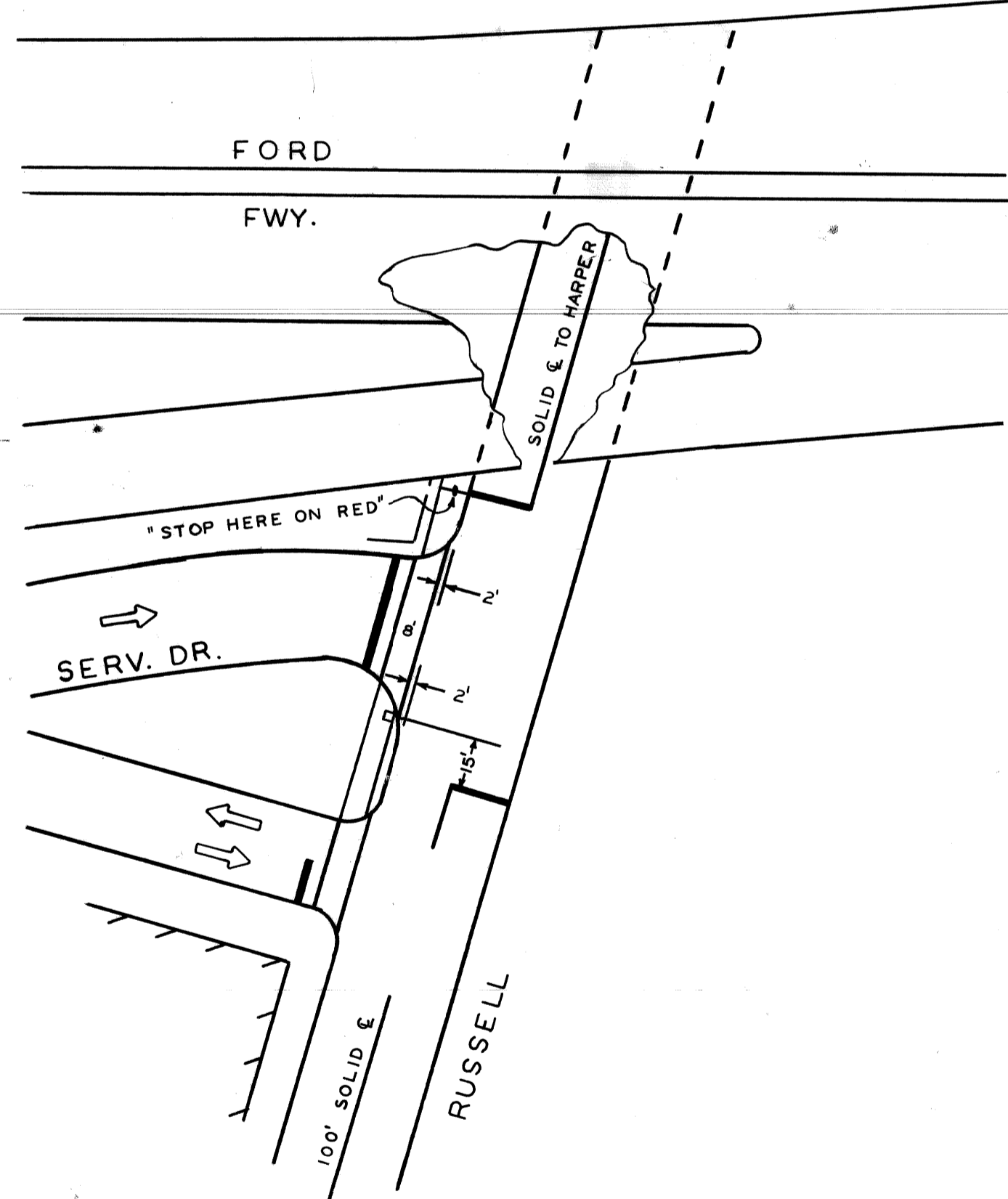
NOTES

1 FOR INFORMATION ON JUNCTION PAVEMENT MARKINGS SEE THE ATTACHED

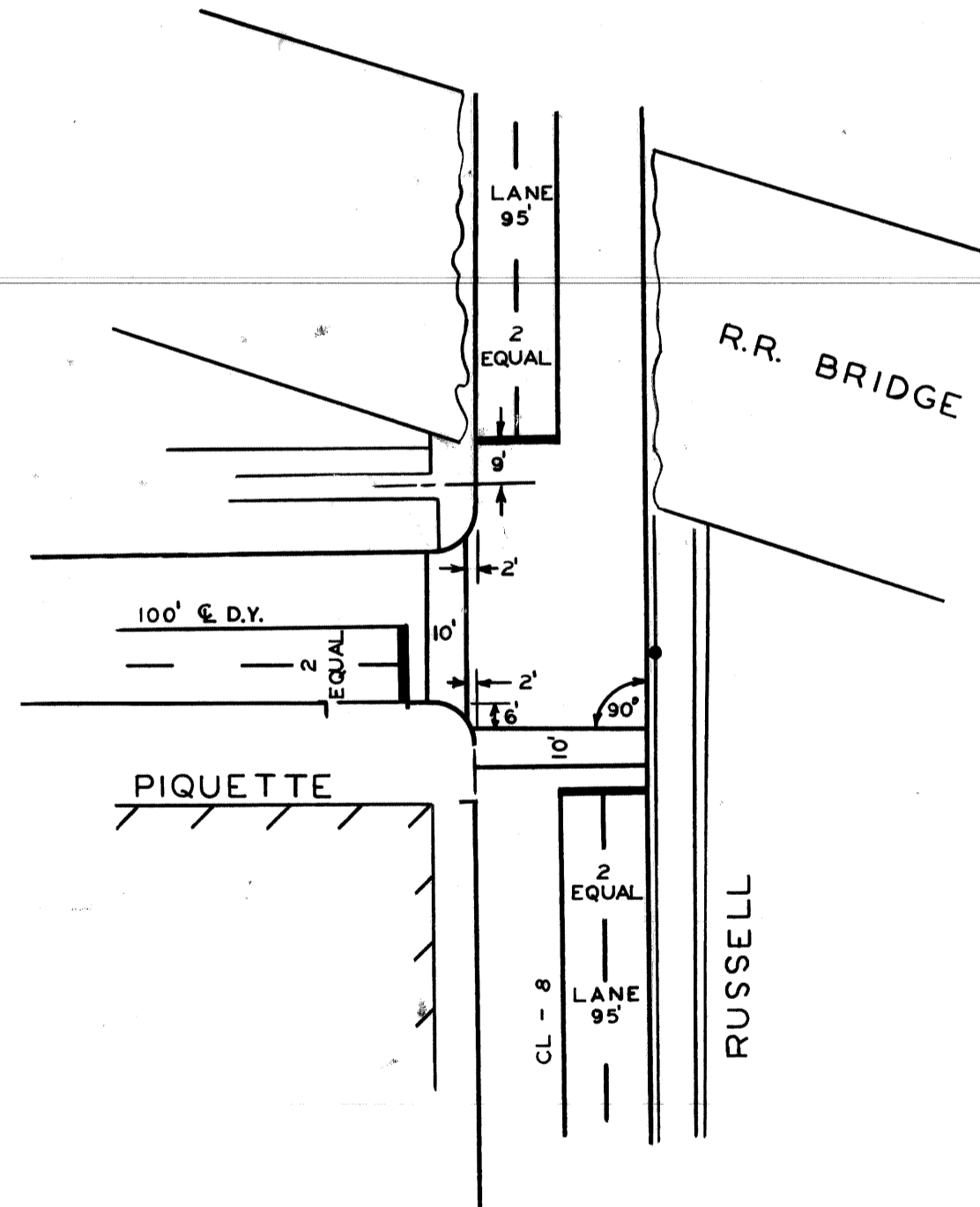
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>DRN</th> <th>CK'D</th> <th>AP'D</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DESCRIPTION	DRN	CK'D	AP'D	DATE	REVISIONS					DESIGNED BY D.O.T. DRAWN BY E.O. CHECKED BY FINAL REVIEW	APPROVED: <i>William Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF HIGHWAYS	RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY LONGITUDINAL PAVEMENT MARKINGS (LANING)	DETAIL STANDARD NO. L-85 SHEET 20 OF 65 SHEETS ASSIGNMENT NO. 83-22-12 SCALE 1" = 40' DATE OCT, 1990
	DESCRIPTION	DRN	CK'D	AP'D	DATE										
REVISIONS															



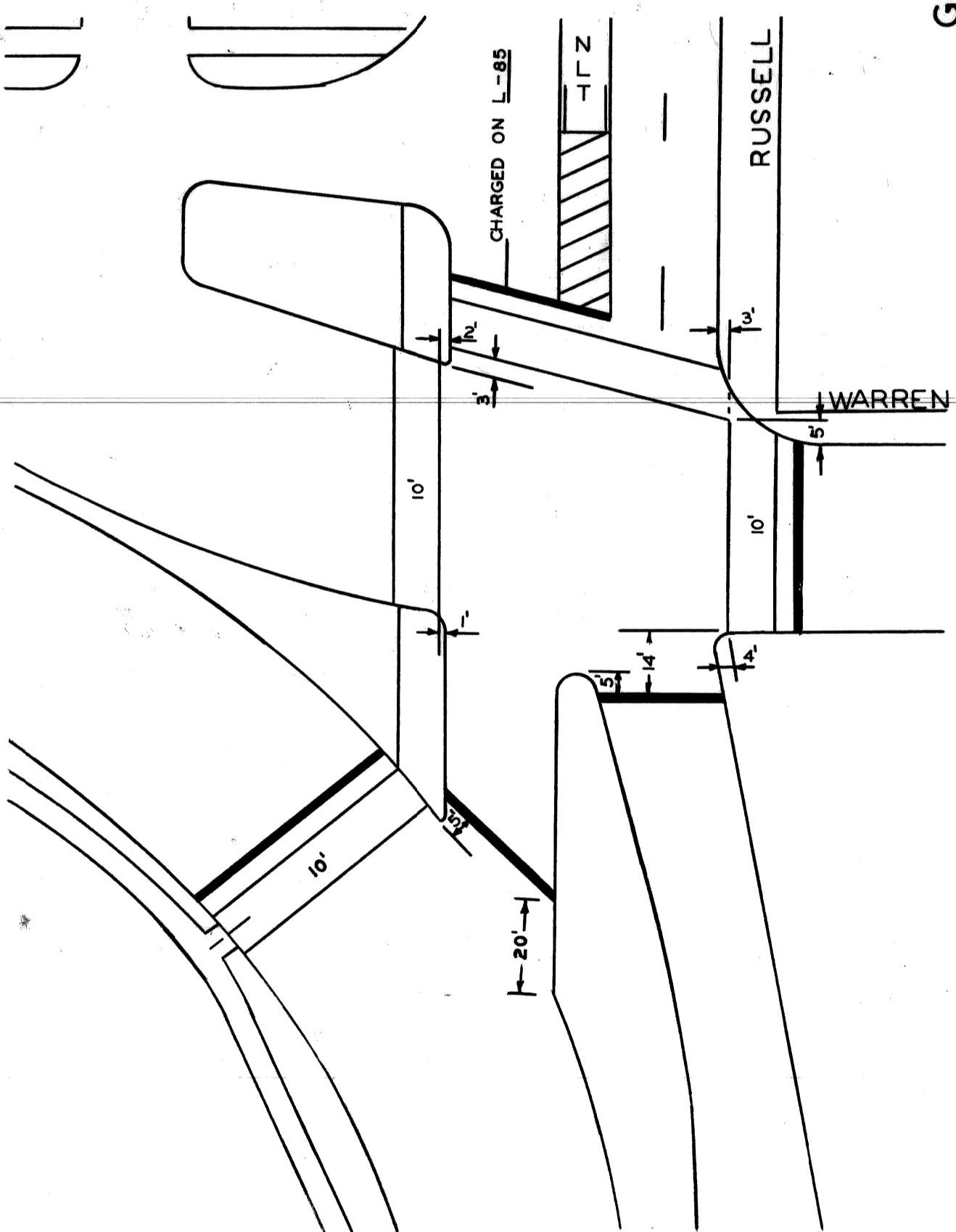
PAVEMENT MARKINGS FERRY-RUSSELL
DETAIL D-74
SCALE: 1" = 30'



PAVEMENT MARKINGS FORD FWY.-RUSSELL
DETAIL D-231
SCALE: 1" = 40'



PAVEMENT MARKINGS PIQUETTE-RUSSELL
DETAIL D-262
SCALE: 1" = 40'



PAVEMENT MARKINGS RUSSELL-WARREN
DETAIL D-136
SCALE: 1" = 30'

DESIGNED BY		APPROVED:		CITY OF DETROIT DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING SERVICES		RUSSELL STREET WIDENING WARREN AVENUE TO TROMBLY PAVEMENT MARKINGS - FERRY AVENUE AND VARIOUS INTERSECTIONS		SHEET 21 OF 65 SHEETS	
DRAWN BY								CONTRACT NO.	
TRACED BY								ASSIGNMENT NO. 83-22-12	
CHECKED BY								DATE OCT, 1990	
COORD	DESCRIPTION	DRW	CK'D	AP'VD	DATE				
REVISIONS LOCATED BY COORDINATES ON SHEET									

R.R. R.O.W.
GRAND TRUNK

1 2 3 4 5 6 7 8 9 10 11