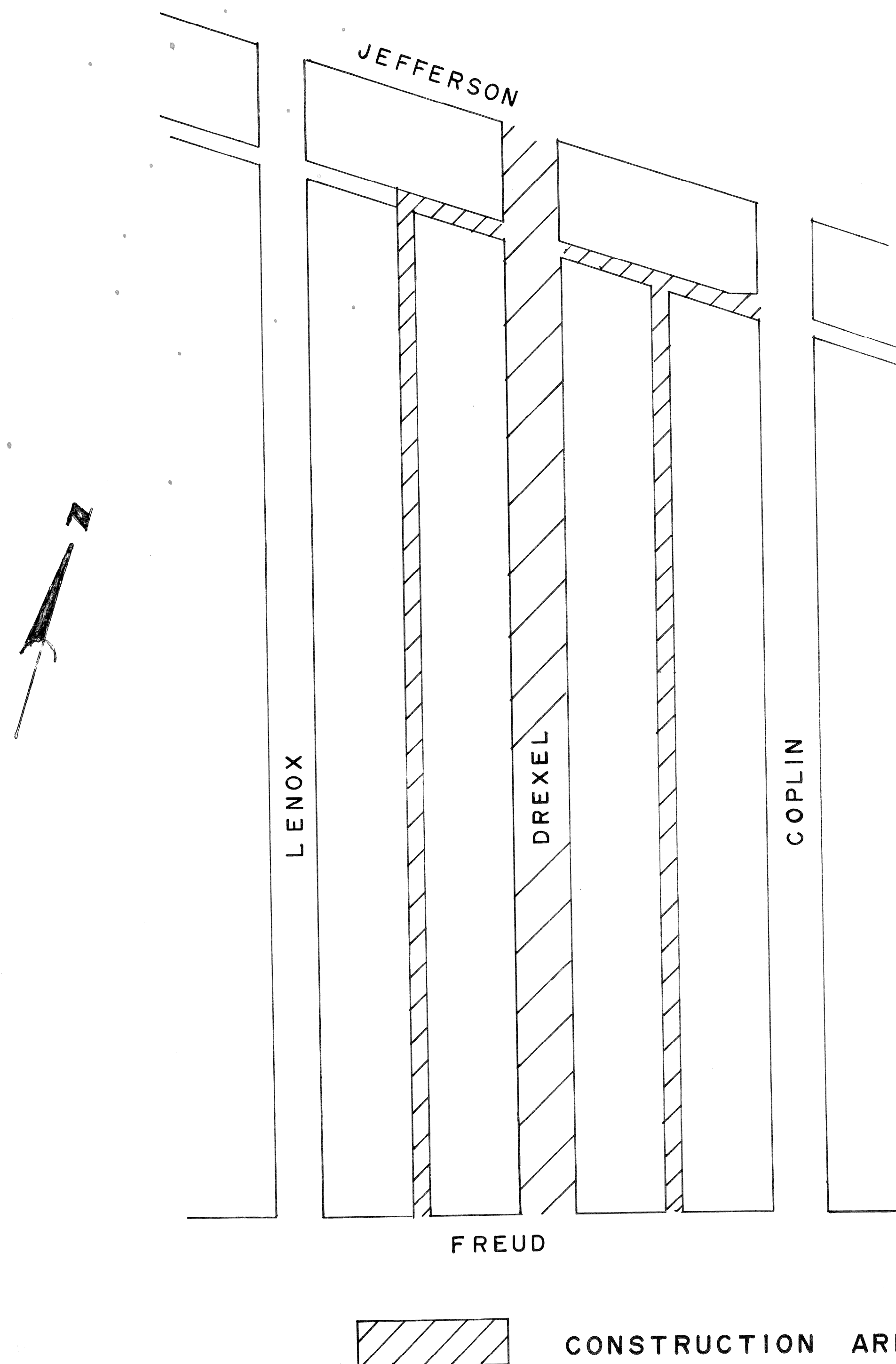


CITY OF DETROIT
 COLEMAN A. YOUNG - MAYOR
 CITY ENGINEERING DEPARTMENT

PLANS FOR PROPOSED
 PAVEMENT REMOVAL AND MISCELLANEOUS CONSTRUCTION
 IN THE AREA BOUNDED BY
 W-LENOX E-COPLIN S-FREUD N-JEFFERSON
 JEFFERSON - CHALMERS REHABILITATION PROJECT



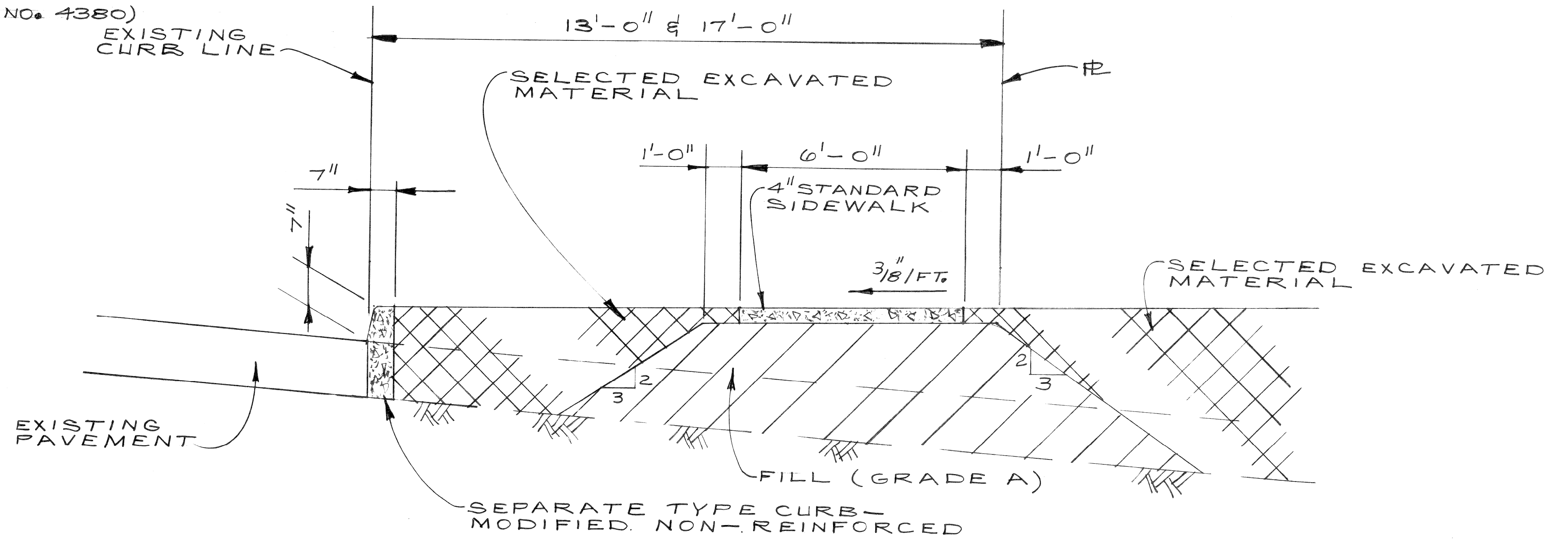
INDEX OF SHEETS

- 1 TITLE SHEET
- 2 QUANTITY AND SECTION SHEET
- 3 PLAN
- 4-5 SEWER ALTERATIONS

PROJECT: PAVEMENT REMOVAL AND MISCELLANEOUS CONSTRUCTION IN THE AREA BOUNDED BY W-LENOX E-COPLIN S-FREUD N-JEFFERSON JEFFERSON-CHALMERS REHABILITATION PROJECT	CONTRACT NO. PW 6668
PLANS PREPARED BY CITY ENGINEERING DEPARTMENT	
RECOMMENDED FOR APPROVAL <small>ENGINEER OF INSPECTION</small>	 _____ <small>DATE</small>
RECOMMENDED FOR APPROVAL <small>ENGINEER OF STREETS</small>	 _____ <small>DATE</small>
APPROVED <small>HEAD ENGINEER</small>	 _____ <small>DATE</small>
APPROVED <small>DIRECTOR</small>	 _____ <small>DATE</small>
DATE 2-13-84	DRWG. NO. 1 OF 5

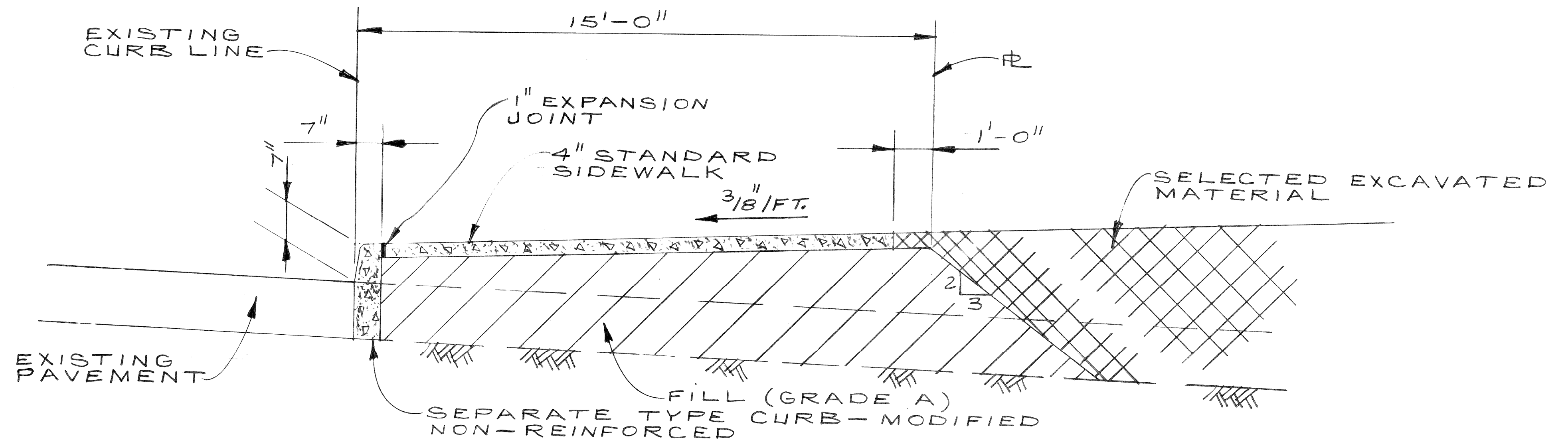
* INCLUDES INTEGRAL CURB TYPE III (SEE STD. DRWG. NO. 4380)
 *** CONSTRUCTION ONLY

ITEM NO.	DESCRIPTION OF ITEM	UNIT	TOTAL
1	EXCAVATION	CYDS	10
2	STREET PAVEMENT REMOVAL - NON-REINFORCED	SYDS	4126
3	ALLEY PAVEMENT REMOVAL	SYDS	4916
4	INTEGRAL CURB AND SIDEWALK REMOVAL	LFT	156
5	SIDEWALK REMOVAL	SFT	15,557
6	DRIVEWAY REMOVAL	SFT	1088
7	TREE REMOVAL 4"-12" DIA.	EACH	10
8	TREE REMOVAL 13"-18" DIA.	EACH	1
9	TREE REMOVAL 24" DIA.	EACH	1
10	TREE REMOVAL 36" DIA.	EACH	3
11	TREE REMOVAL 48" DIA.	EACH	2
12	STUMP REMOVAL		1
13	FILL (GRADE A)	CYDS	40
14	GRADING ABANDONED ALLEYS	SYDS	4916
15	GRADING ABANDONED STREETS	SYDS	7969
16	MANHOLE ADJUSTMENT	EACH	1
17	SIDEWALK 4" STANDARD ***	SFT	1814
18	SEPARATE TYPE CURB - MODIFIED NON-REINFORCED	LFT	130
19	CONCRETE SAWING	LFT	100
20	LITTER REMOVAL	CYDS	65
21	COLD PATCHING	SYDS	25
22	SINGLE BEAM BARREL BARRICADE - 12.5' LENGTH	EACH	1
23	CONCRETE BASE PAVEMENT - 9" UNIFORM NON-REINFORCED *	SYDS	98
24	REMOVING BITUMINOUS SURFACE	SYDS	63
25	CLEANING STRUCTURES	EACH	1
26	RESETTING CATCH BASINS - ALL TYPES	EACH	1
27	BITUMINOUS BOND COAT	GALS	10
28	MAINTAINING TRAFFIC	LUMP SUM	
29	RESURFACING MIXTURE IN PLACE		
A)	FINE BINDER COURSE MIXTURE (ALL NATURAL AGGREGATES)	TONS	9
B)	FINE BINDER COURSE MIXTURE (ALL SLAG AGGREGATES)	TONS	8
30	RESURFACING MIXTURE IN PLACE		
A)	WEARING SURFACE MIXTURE 31A (CD) (ALL SLAG AGGREGATES)	TONS	8
31	8" WATER MAIN ABANDONMENT	LUMP SUM	
32	REMOVE HYDRANT - METHOD I	EACH	1
33	REMOVE HYDRANT - METHOD II	EACH	1
34	12-INCH SEWER C-76CL IV (OPEN CUT)	LFT	190
35	21-INCH SEWER C-76CL III (TUNNEL)	LFT	13
36	STANDARD MANHOLE (11' TO 13' DEEP)	EACH	3
37	REPLACE CATCH BASINS	EACH	1
38	BULKHEADS (8" BRICK & 12" CONC)	EACH	5
39	SEWER TAP	LUMP SUM	
40	ABANDON EXISTING MANHOLES, SEWERS AND CATCH BASINS	LUMP SUM	
41	REPLACE PAVEMENT AND BERM	LUMP SUM	
42	RESTORATION AND CLEAN-UP	LUMP SUM	



SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

NOTES:

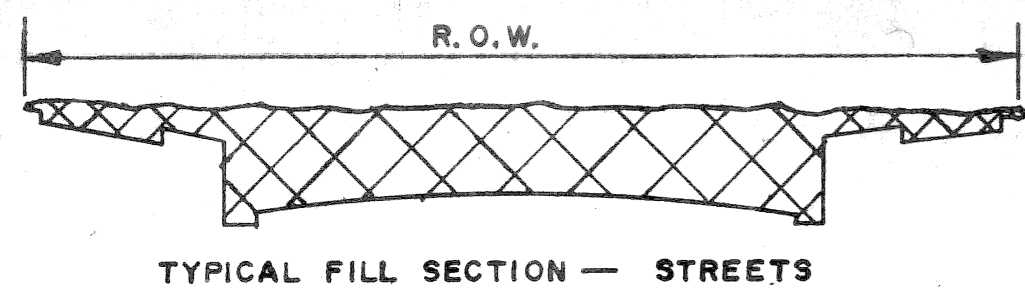
- BEFORE STARTING CONSTRUCTION - CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.
- FOR UTILITY LEGEND SEE STANDARD DRAWING C-902-A.
- FOR SEPARATE TYPE CURB DETAIL SEE STANDARD DRAWING C-4381.
- WHERE CALLED FOR ON THE PLANS, REMOVE THE EXISTING STREET PAVEMENT, CURBS, SIDEWALKS, DRIVEWAYS, TREES, AND ALLEY PAVEMENT WITHIN THE RIGHT OF WAY UNLESS OTHERWISE NOTED.
- THE FIRE HYDRANTS ON THE ABANDONED 8" WATER MAIN SHALL BE REMOVED AND DELIVERED TO D.W.S.D. PLANT AND MECHANICAL MAINTENANCE DIVISION.

DESIGNED BY	D.E.U.
DRAWN BY	JONES
CHECKED BY	D.E.U.

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAUS OF STREETS AND HIGHWAYS
 FOR

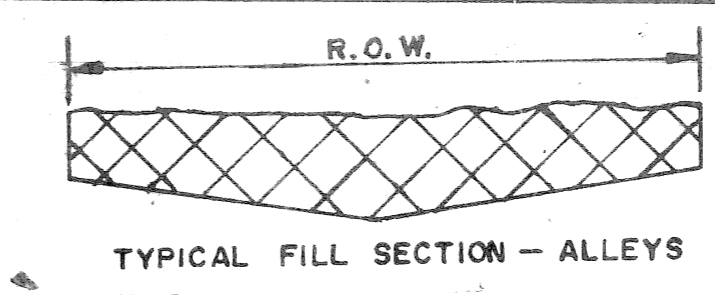
PAVEMENT REMOVAL AND MISCELLANEOUS CONSTRUCTION
 IN THE AREA BOUNDED BY
 W-LENOX E-COPLIN S-FREUD N-JEFFERSON
 JEFFERSON-CHALMERS REHABILITATION PROJECT

SHEET	2	OF	5	SHEETS
CONTRACT NO.	PW 6668			
ASSIGNMENT NO.	83-14-02			
DATE	2-13-84			

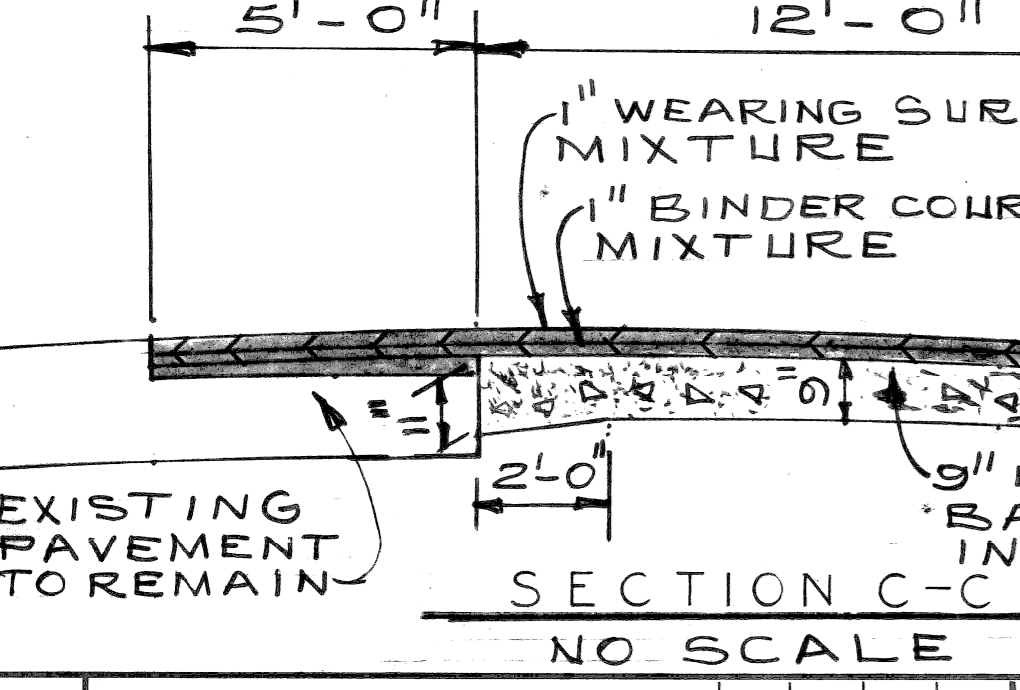
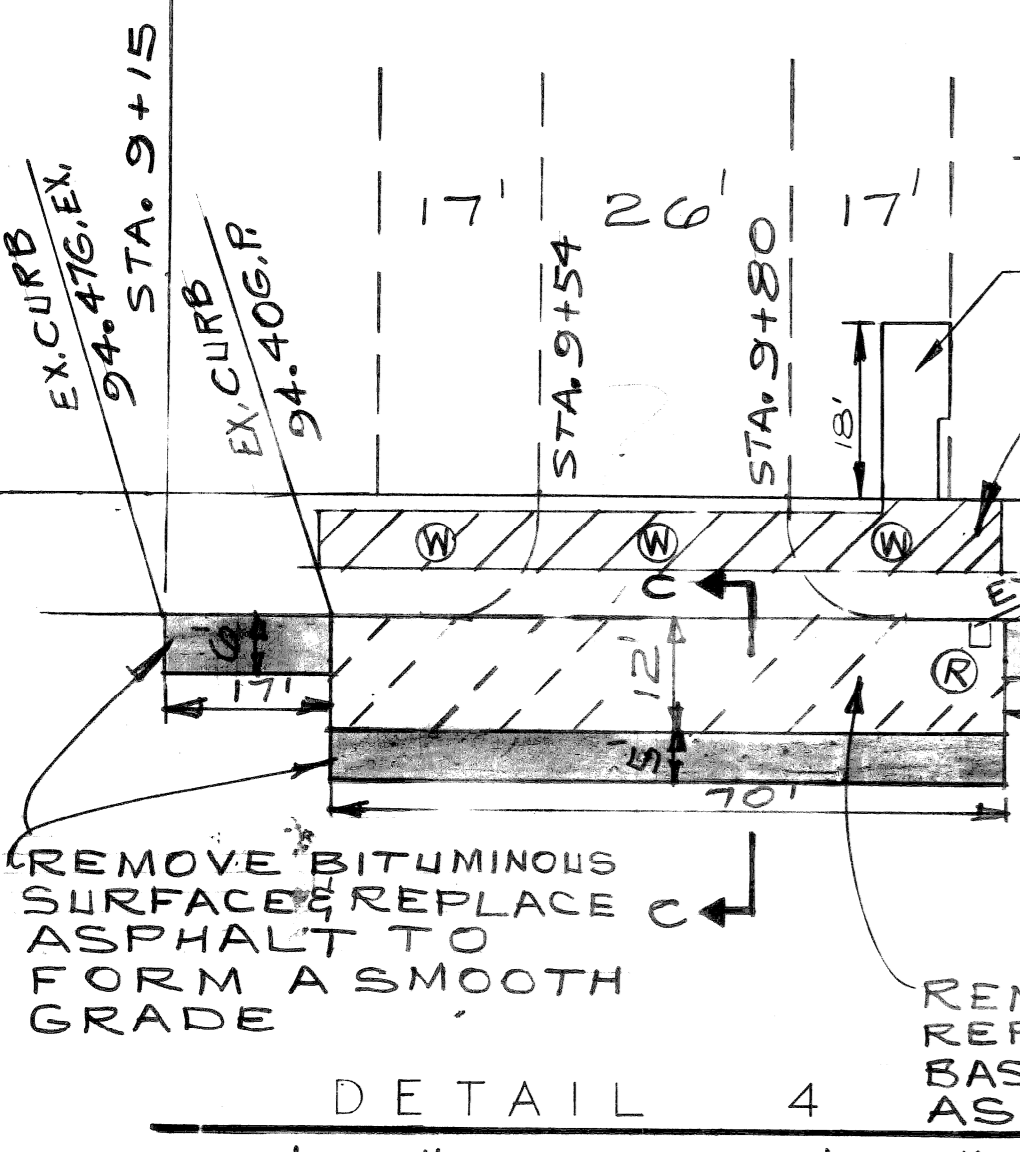
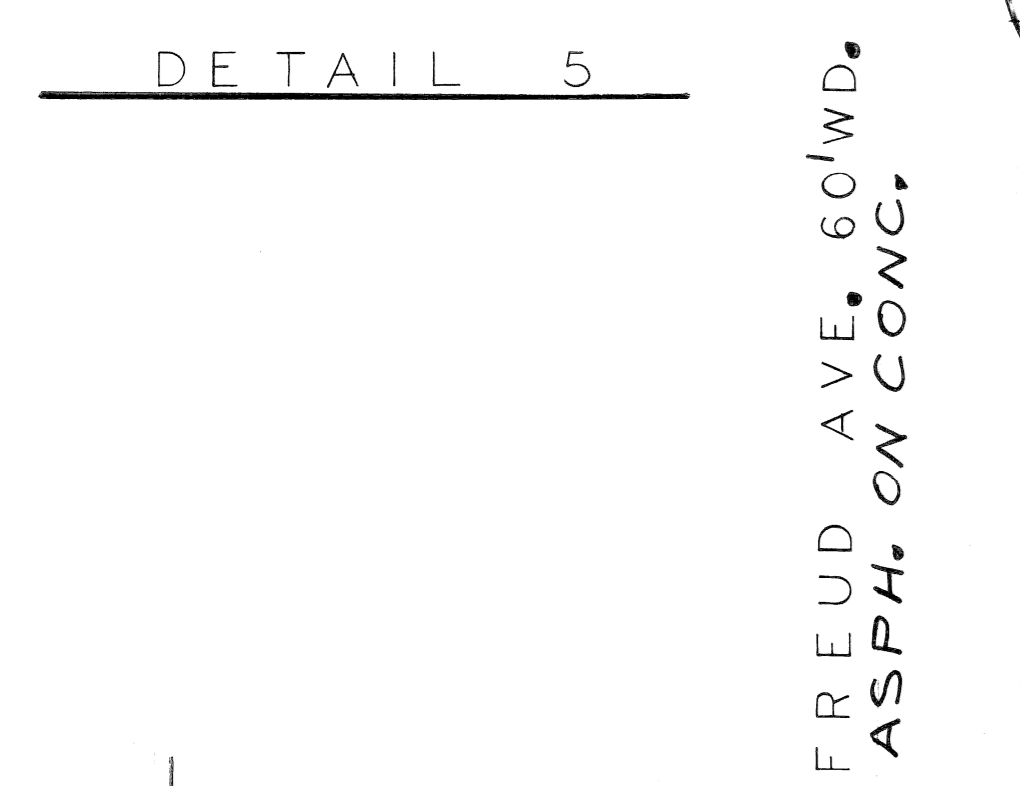
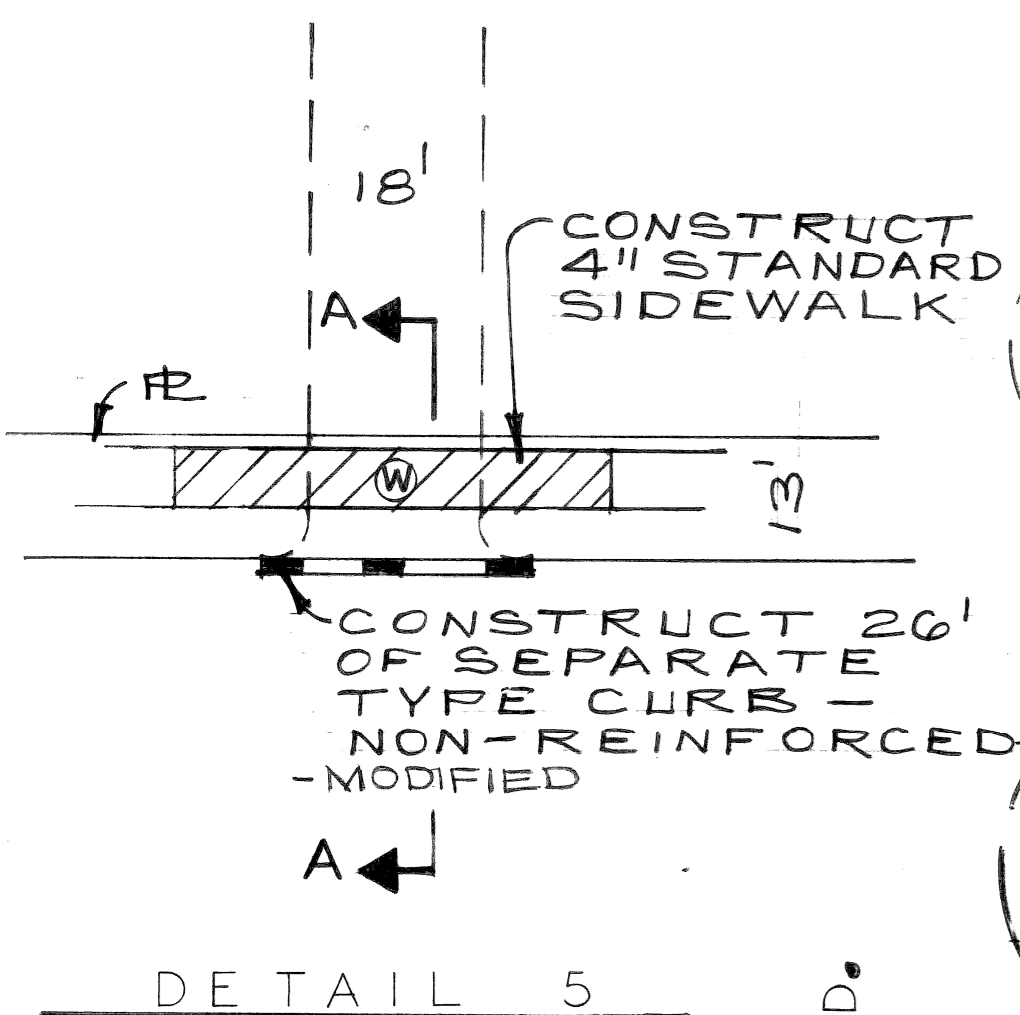
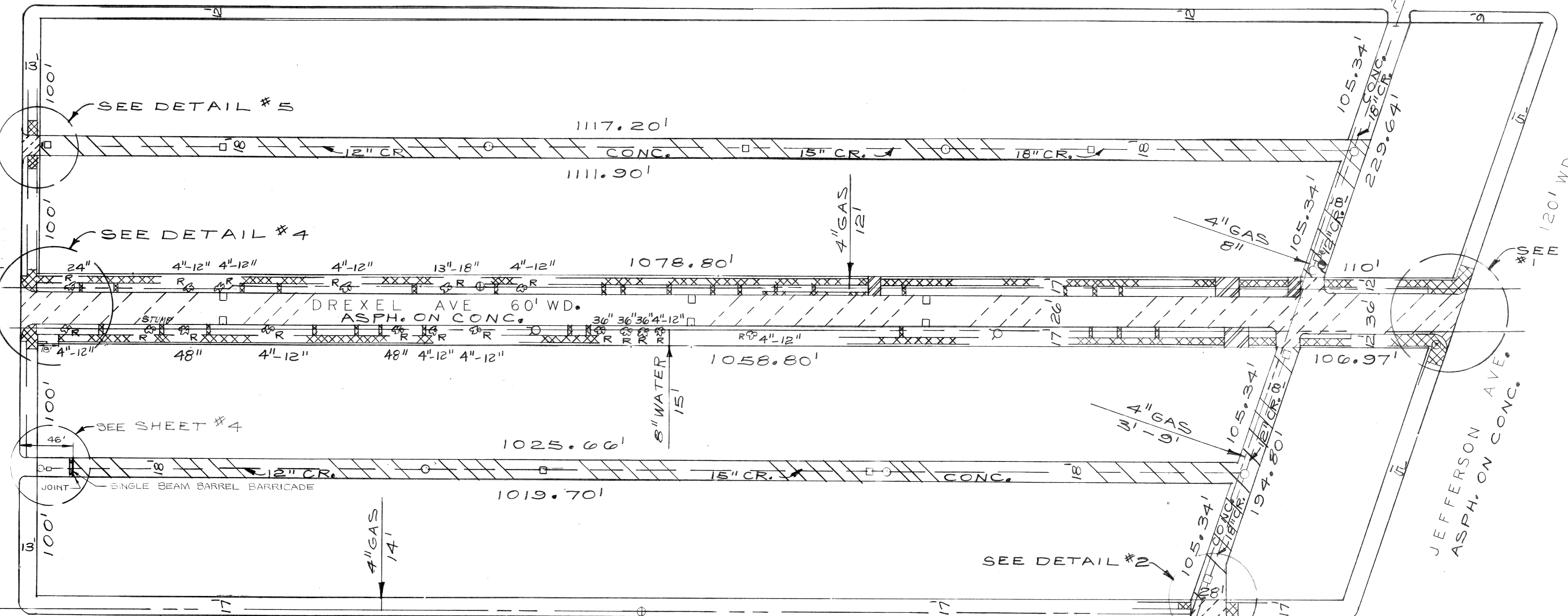


CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

LENOX AVE. 50' WD.
ASPH. ON CONC.

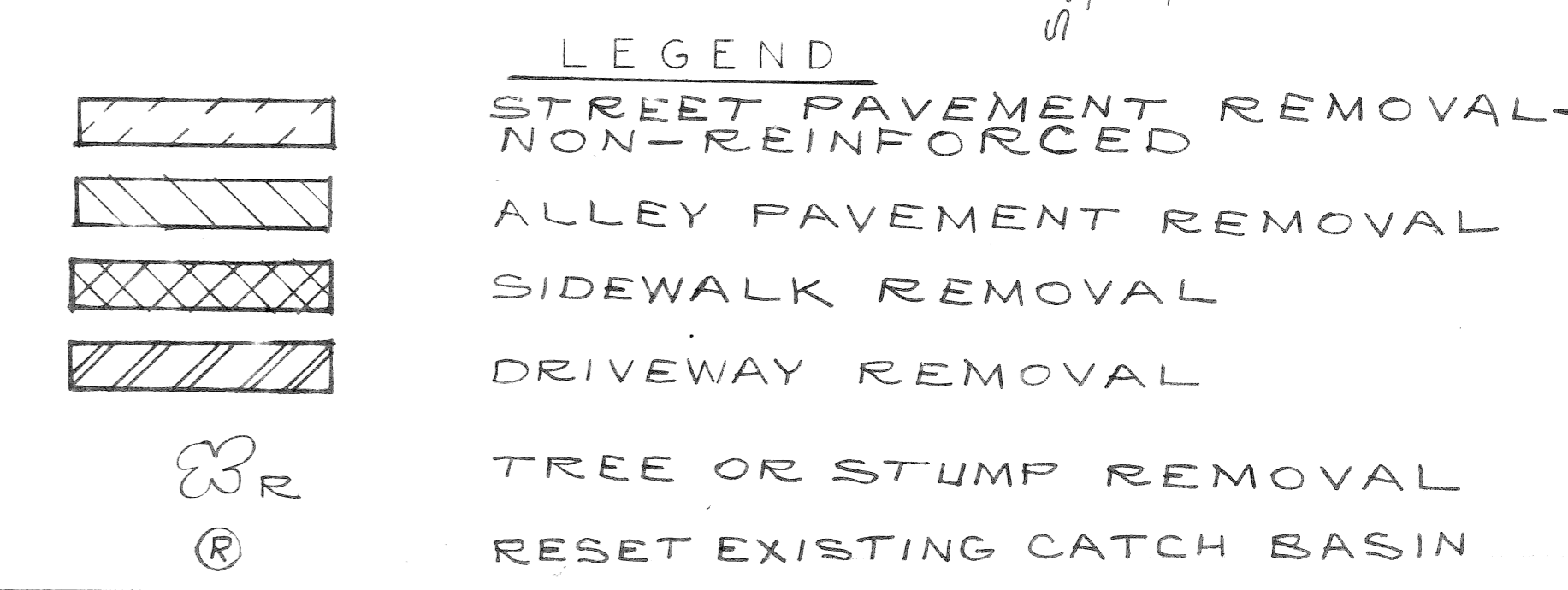
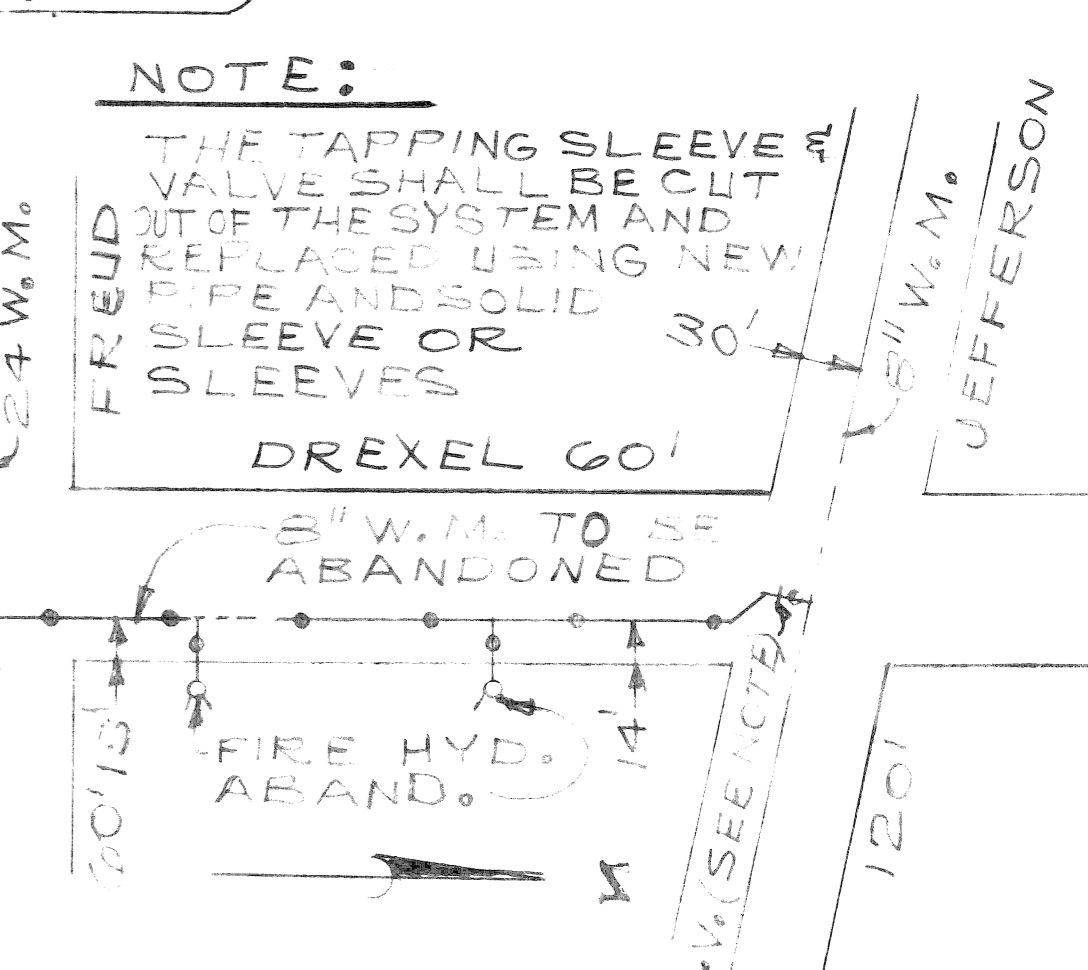
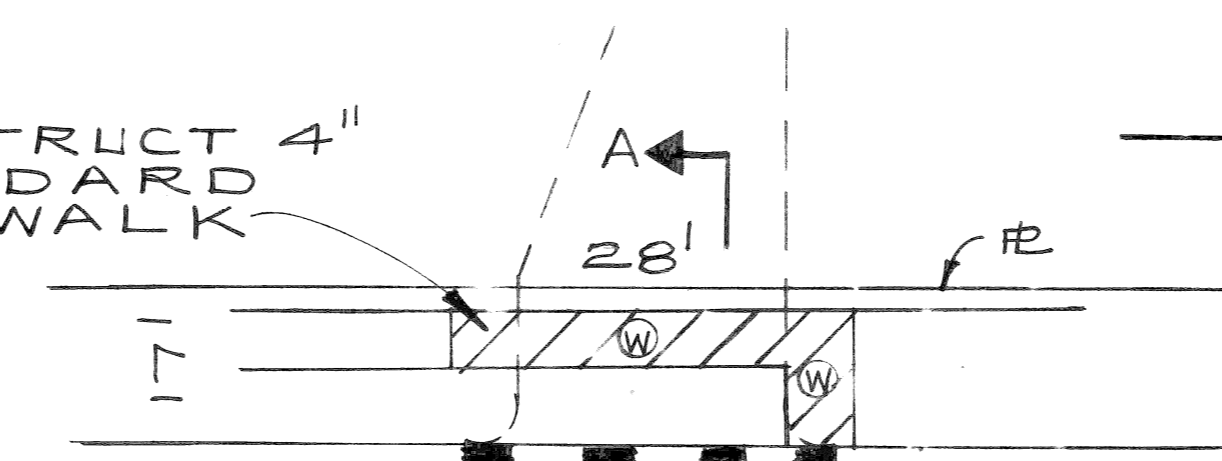
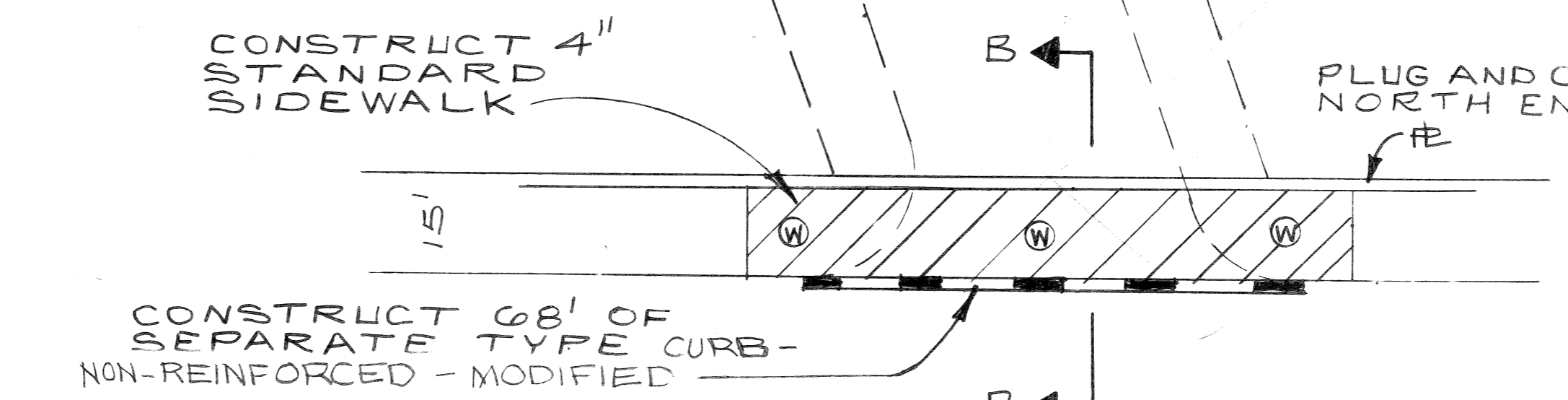


NOTE—
APPROXIMATELY 4610 CYDS. OF
SELECTED EXCAVATED MATERIAL
REQUIRED FOR THIS SHEET.

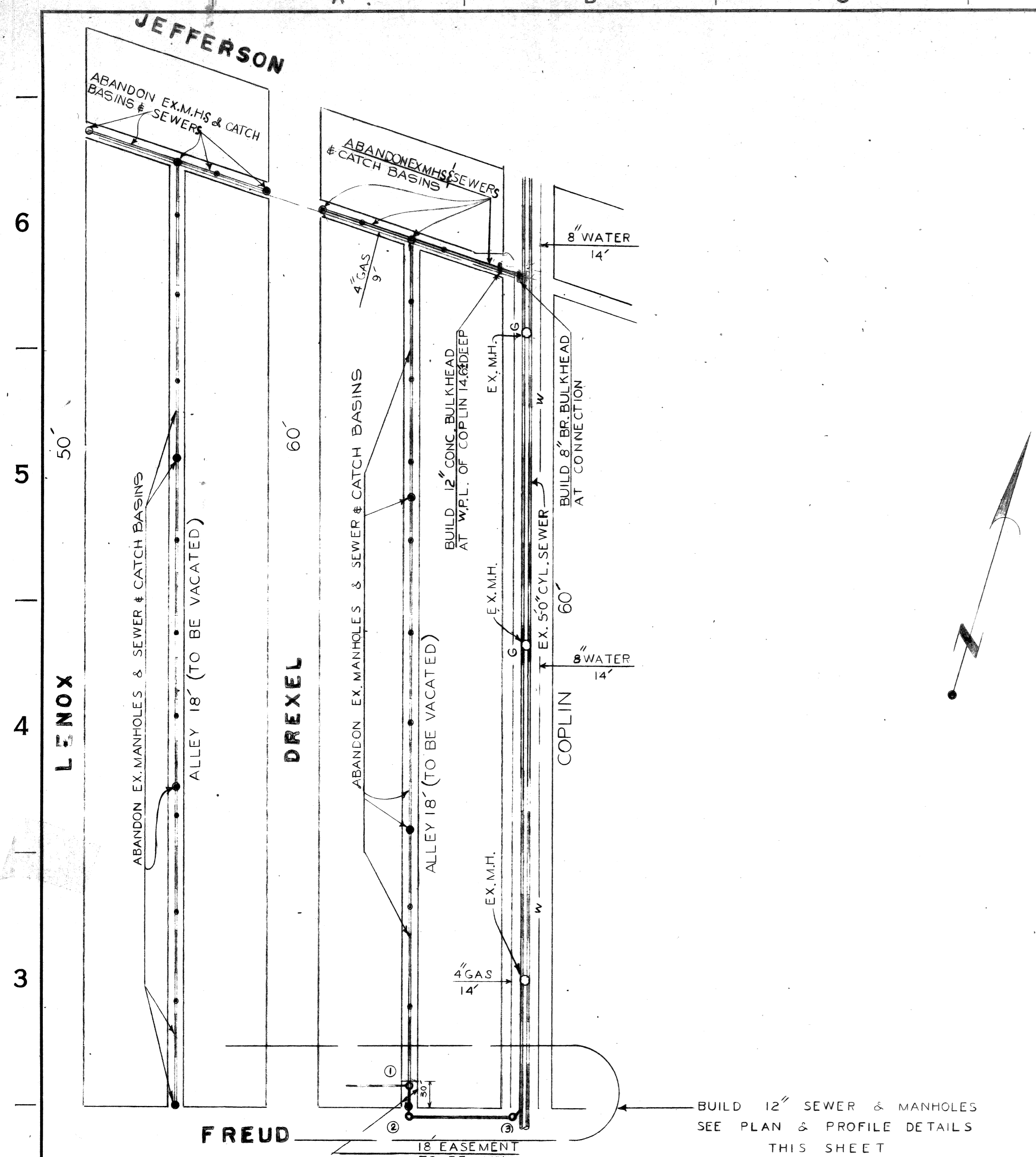


COPLIN AVE. 60' WD.
ASPH. ON CONC.

PLAN
SCALE: 1" = 50'

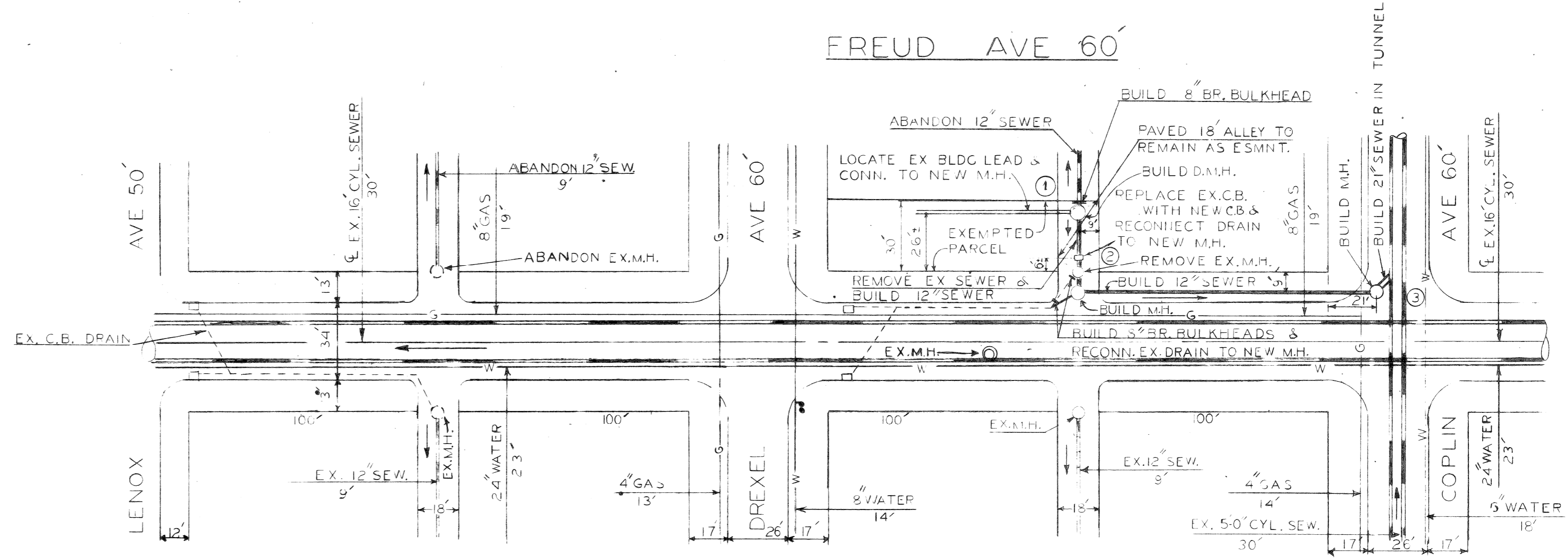


DESIGNED BY DE.U	APPROVED <i>William S. Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS FOR	PAVEMENT REMOVAL AND MISCELLANEOUS CONSTRUCTION IN THE AREA BOUNDED BY W-LENOX E-COPLIN S-FREUD N-JEFFERSON JEFFERSON-CHALMERS REHABILITATION PROJECT PLAN	SHEET <u>3</u> OF <u>5</u> SHEETS		
DRAWN BY JONES	CHECKED BY DE.U			CONTRACT NO. PW 6068	ASSIGNMENT NO. 83-14-02	
COORD	DESCRIPTION	DRN	CK'D	APVD	DATE	REVISIONS LOCATED BY COORDINATES ON SHEET
1						
2						
3						
4						
5						
6						
7						
8						
9						

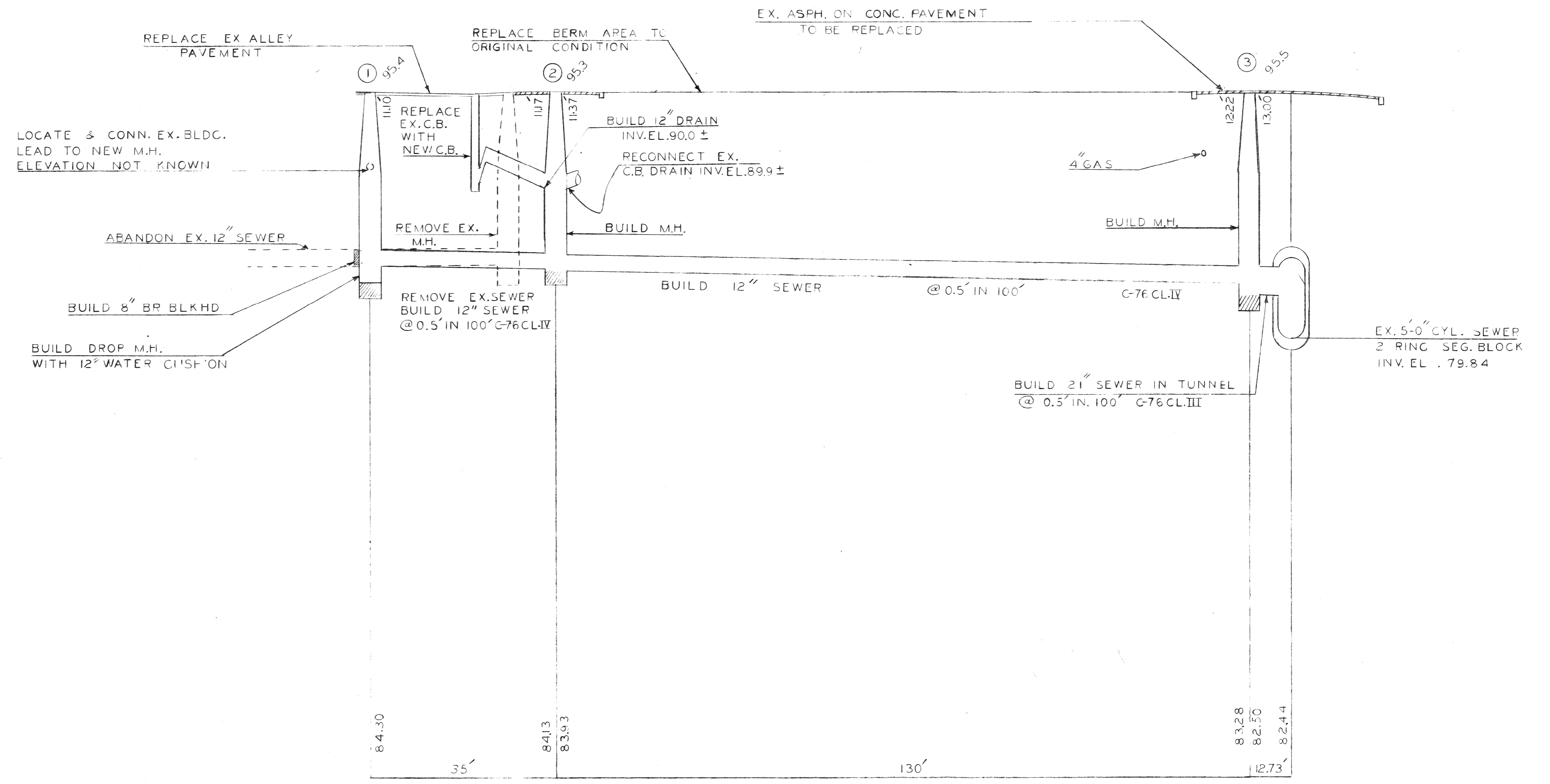


PLAN
SCALE: 1"=100'

NOTE
FOR MANHOLE COVERS NOTE SEE
NOTE *S ON SHEET *J



PLAN
SCALE: 1"=40'



PROFILE
HOR. 1"=15'
SCALE: VER. 1"=5'

SHEET 4 OF 5 SHEETS

F			
E			
D			
C			
B			
A			
DESCRIPTION	CHK'D	APRVD.	DATE
REVISIONS			

DESIGNED BY *J. Didani*
 DRAWN BY *J. Didani*
 CHECKED BY *M.W.M.* 1-4-84
 ENGINEER *J. Williams* 1/5/84
 WATER SYSTEM

APPROVED
J. Behlala 1/5/84
 HEAD ENGINEER
L. Szymanski 1/6/84
 DIVISION ENGINEER

PAVEMENT REMOVAL & MISC. CONSTRUCTION
 IN THE AREA BOUNDED BY
 W-LENOX E-COPLIN N-FREUD N-JEFFERSON
 JEFFERSON - CHALNERS REHAB. PROJECT
 SEWER ALTERATIONS
 SCALE: AS SHOWN
 DATE: JANUARY, 1984

CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
 ENGINEERING DIVISION

62 B 62 E

TOWN	RANGE	SECTION	PORTION CODE	WORK ORDER NO.
				S-136-7351

M.D.P.H./D.N.R. PERMIT NO.
 FED. REF. NO.
 CONTRACT NO. PW-6608
 FILE NO.
D-

SEWER BULKHEADS

SEWER BULKHEADS SHALL BE CONSTRUCTED OF BRICK OR CONCRETE TO THE SPECIFIED THICKNESS AS SHOWN ON THE PLANS OR AS INDICATED BY THE ENGINEER.

BRICK BULKHEADS

THE SURFACE OF CONTACT OF THE SEWER WALL WITH THE BULKHEAD SHALL BE ROUGHENED BY BUSH HAMMERING OR CHISELING AND THEN CLEANED JUST PRIOR TO THE BULKHEAD CONSTRUCTION. SUCH BULKHEADS SHALL BE VERTICAL WITH ALTERNATE HEADER AND STRETCHER COURSES LAID IN MORTAR.

VERTICAL JOINTS IN ADJACENT COURSES SHALL BE STAGGERED. BRICK SHALL BE LAID WITH FULL MORTAR JOINTS. ALL AVAILABLE BEARING AREAS SHALL BE COVERED WITH MORTAR SPREAD IN AN EVEN LAYER WITHOUT SPLITTING OR FURROWING, AND ALL VERTICAL AND INTERIOR JOINTS SHALL ALSO BE SOLIDLY FILLED WITH MORTAR. THE COURSES SHALL BE LAID EVEN. BULKHEADS SHALL BE CONSTRUCTED AS PLUMB AS IS PRACTICAL.

CONCRETE BULKHEADS

ALL BULKHEADS SHALL BE CONSTRUCTED WITH GRADE "A" CONCRETE TO A THICKNESS OF AT LEAST ONE-THIRD THE DIAMETER OF THE PIPE BUT IN NO CASE LESS THAN TWELVE INCHES. SEWER WALLS SHOULD BE BRUSH CLEANED BEFORE CONCRETE BULKHEADS ARE POURED. (THAT IS ALL THE SLUDGE AND DEBRIS SHOULD BE OUT OF THE WAY)

DETROIT EDISON COMPANY
PHONE: 237-8000

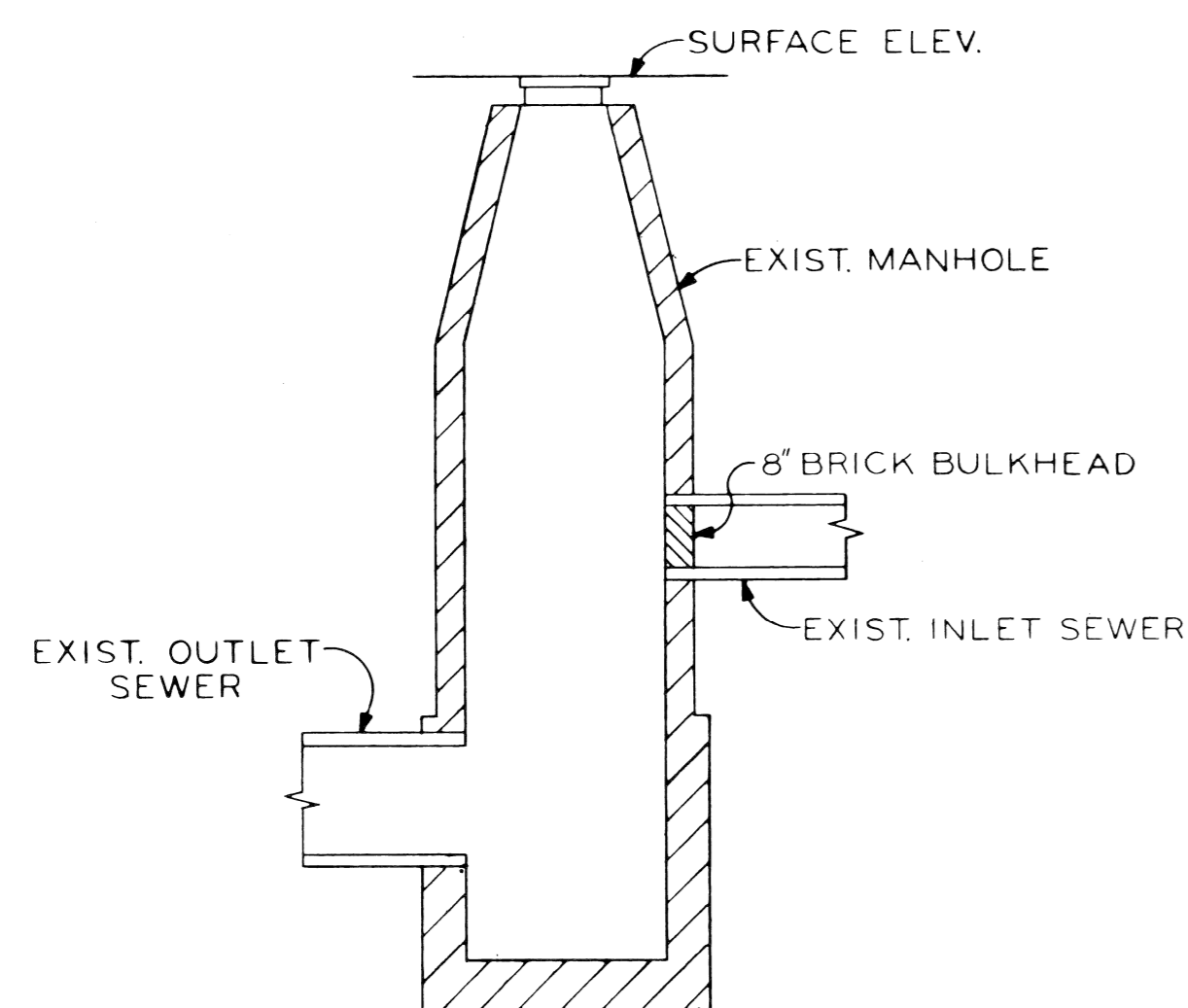
MICHIGAN CONSOLIDATED GAS COMPANY
PHONE: 965-8000

MICHIGAN BELL TELEPHONE COMPANY
PHONE: 372-8703

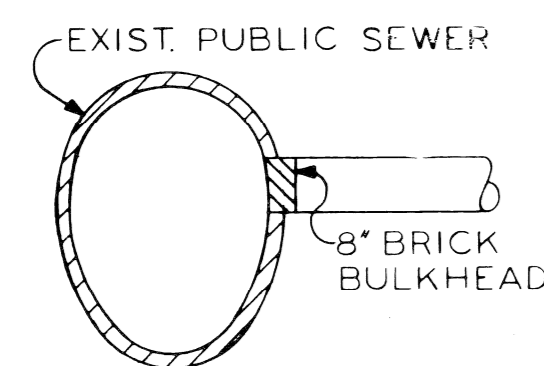
PUBLIC LIGHTING COMMISSION
PHONE: 875-0972

GENERAL NOTES

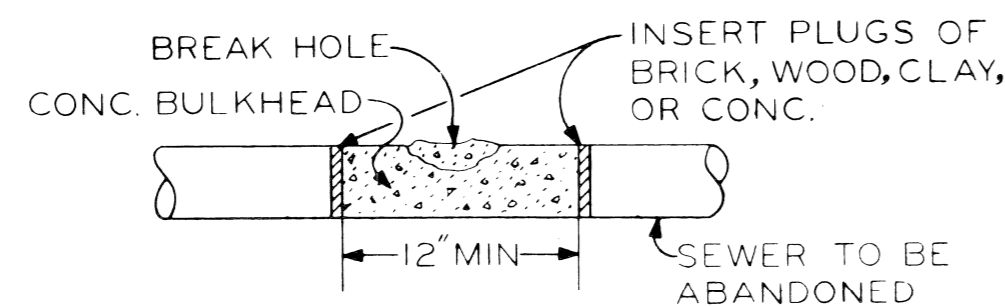
1. IN COMPLIANCE WITH PUBLIC ACT 53 OF THE STATE OF MICHIGAN (EFFECTIVE AUG. 1, 1974) THE CONTRACTOR SHALL NOTIFY IN ADVANCE OF CONSTRUCTION, ALL PUBLIC AND PRIVATE OWNERS HAVING EXISTING FACILITIES IN OR NEAR THE IMMEDIATE WORKING AREA. FOR CONVENIENCE THE KNOWN UTILITY OWNERS ARE LISTED ON THIS DRAWING. THIS LISTING DOES NOT, HOWEVER, BELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF VERIFYING UTILITY LOCATIONS AND NOTIFYING ALL UTILITY OWNERS AND MISS-DIG. (PHONE: 482-7171 IN AREA CODE 800.)
2. LOCATIONS OF EXISTING CATCH BASIN DRAINS ARE APPROXIMATE.
3. UTILITIES CROSSING THE SEWERS TO BE CONSTRUCTED IN OPEN CUT ARE SHOWN IN PROFILE. ELEVATIONS AND LOCATIONS ARE APPROXIMATE.
4. VERIFY EXISTING INVERT ELEVATIONS PRIOR TO START OF CONSTRUCTION.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND WATERTIGHT AND SHALL BE NEENAH R-1916-F, EAST JORDAN 1045 PT OR APPROVED EQUAL.



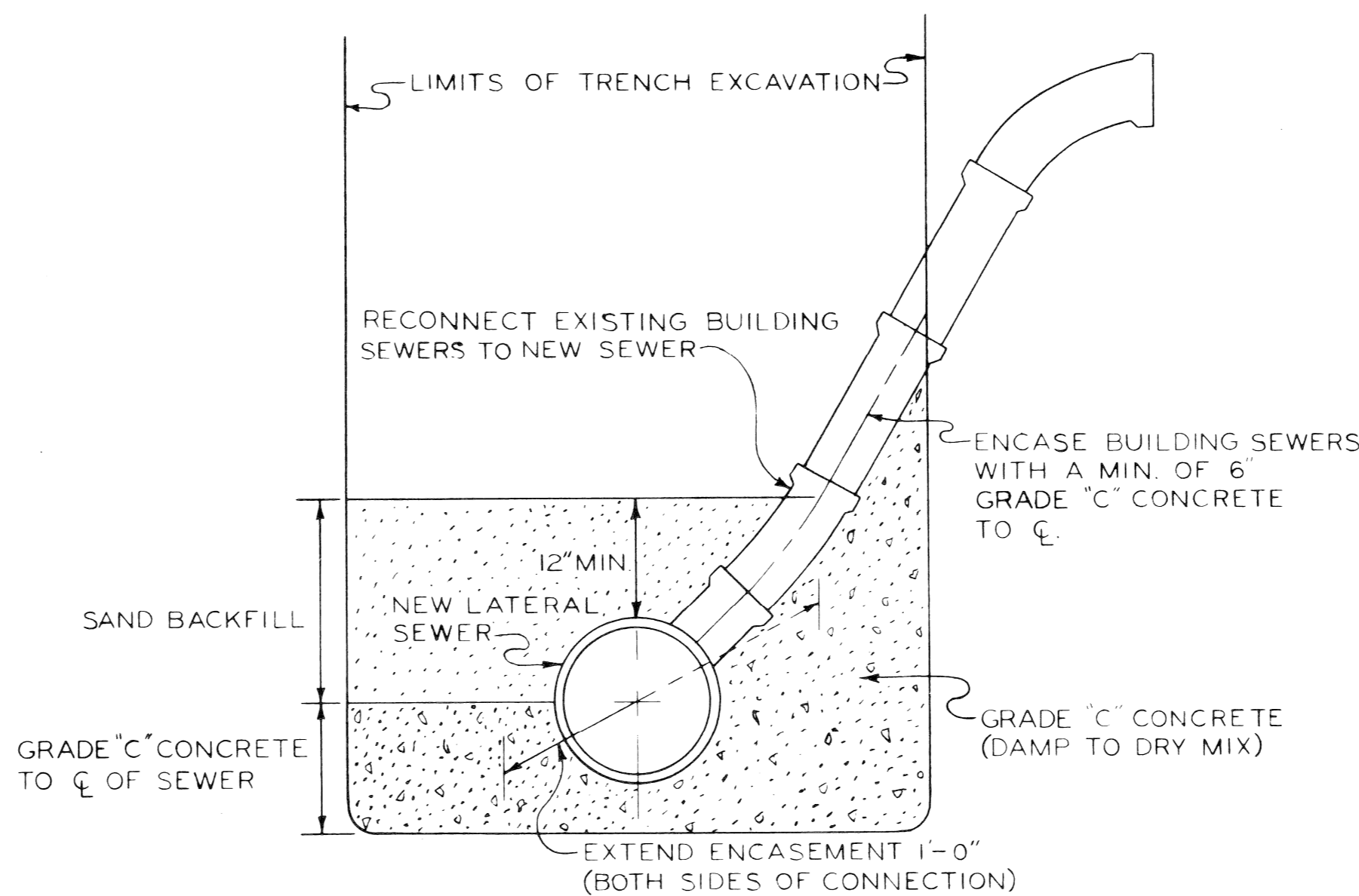
BULKHEAD CONSTRUCTED FROM WITHIN MANHOLE
NO SCALE



TYPICAL CROSS SECTION OF BULKHEAD CONSTRUCTED FROM WITHIN THE SEWER
NO SCALE



TYPICAL DETAIL OF BULKHEAD CONSTRUCTED AND POURED FROM OUTSIDE SEWER AFTER EXCAVATING TO SEWER DEPTH
NO SCALE



DETAIL OF WYE CONNECTION
NO SCALE

SHEET 5 OF 5 SHEETS

DESIGNED BY		APPROVED		PAVEMENT REMOVAL & MISC. CONSTRUCTION		CITY OF DETROIT		M.D.P.H. PERMIT NO.	
DRAWN BY <i>William Baker Jr.</i>		HEAD ENGINEER-WATER SYSTEM		IN THE AREA BOUNDED BY		WATER AND SEWERAGE DEPARTMENT		FED. REF. NO.	
CHECKED BY <i>DWD 1/20</i>		<i>D. Sule</i> DIRECTOR OF ENGINEERING		W-LENOX E-COPLIN S-FREUD N-JEFFERSON		ENGINEERING DIVISION		CONTRACT NO.	
DATE <i>11/13/83</i>		DIRECTOR		JEFFERSON - CHALMERS REHAB. PROJECT		SECTION MAP		PW-6688	
DESCRIPTION		APRVD.		SCALE AS SHOWN		TOWN		WORK ORDER NO.	
REVISIONS		DATE		SEWER ALTERATIONS		RANGE		S-136-7351	
				DATE DECEMBER 1983		SECTION		D-	
						PORTION CODE			
						WORK ORDER NO.			