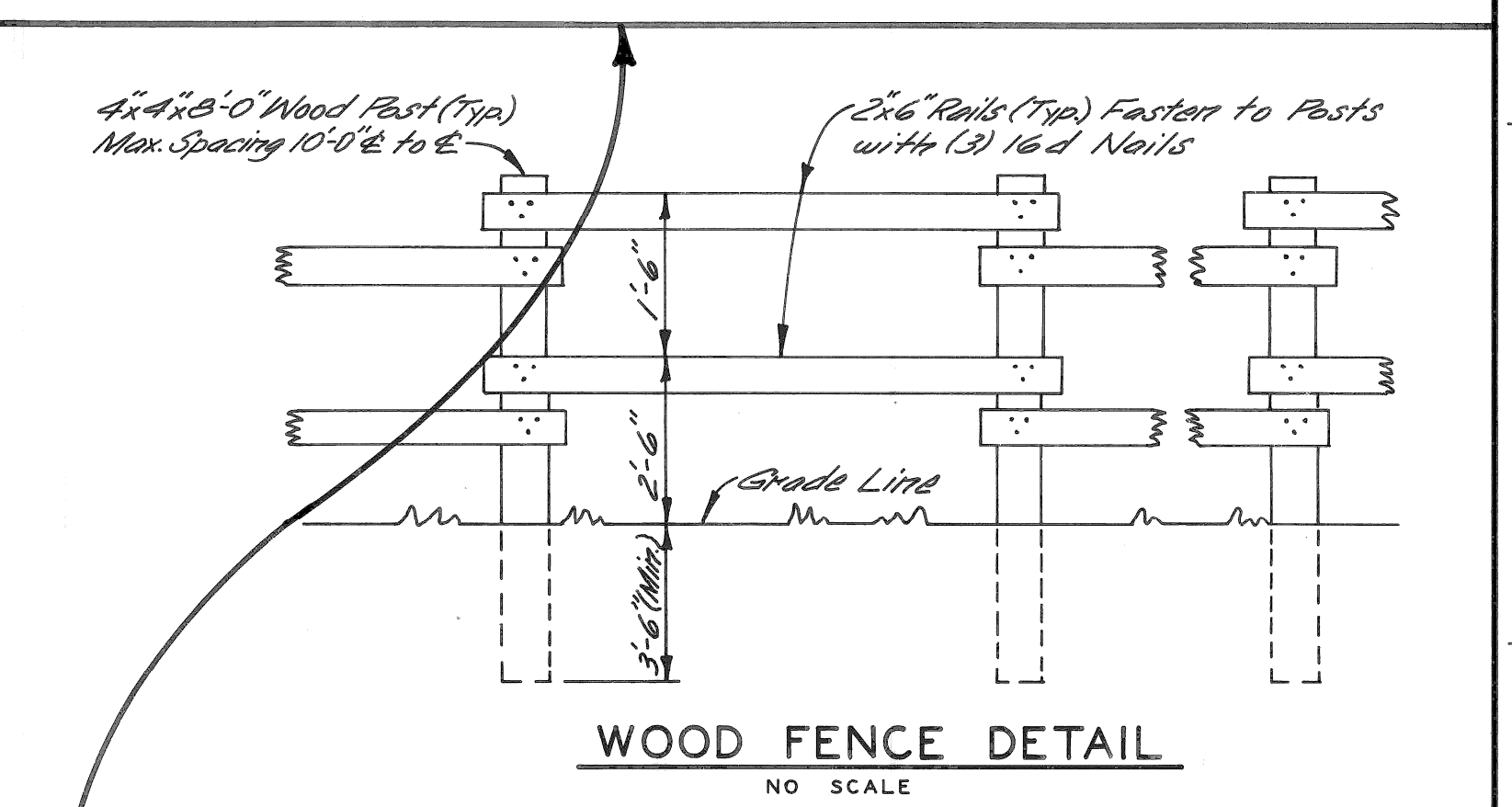


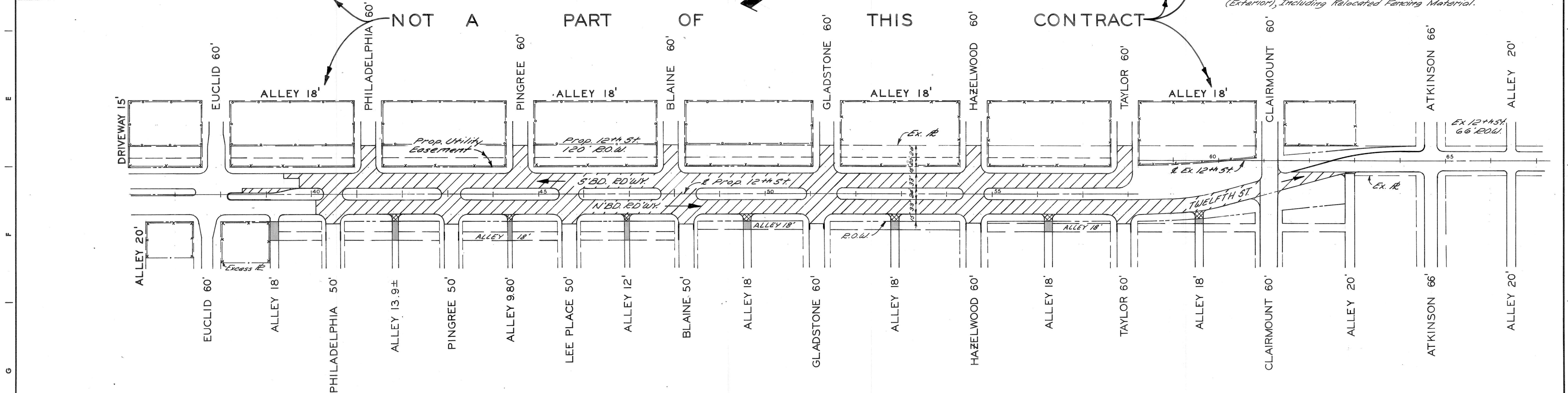
LEGEND

- Concrete Pav't 9" Uniform (Reinf.)
- Concrete Pav't 9" Uniform (Non Reinf.)
- Prop. Concrete Curb
- Concrete Pav't 8" Uniform
- Prop. "Wood Fence"
- Exist. "Wood Fence"



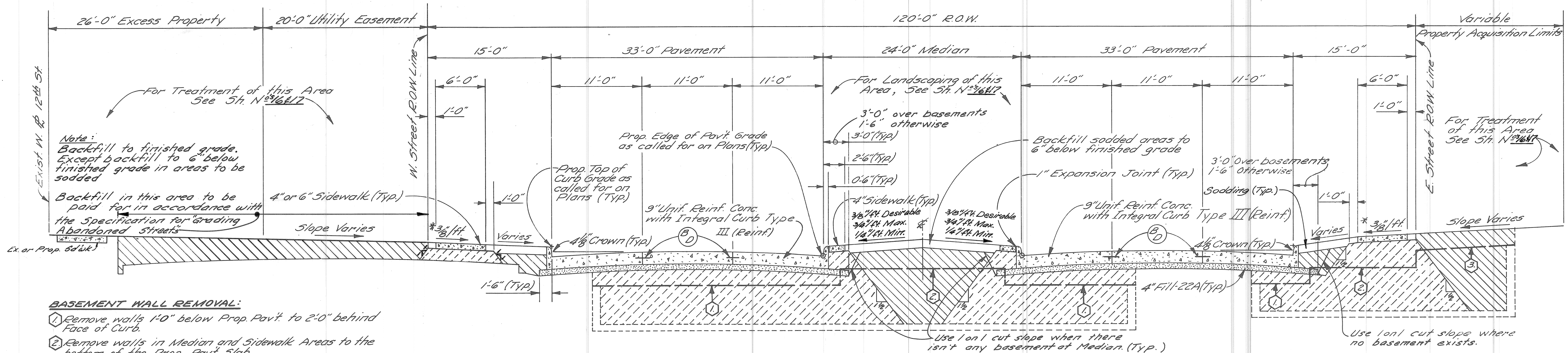
- Wood Fence Notes:**
1. Wood Rails and Posts to be either New No. 2 Grade Lumber, or Relocated Existing Fencing in good condition.
 2. All Fence Material to be Painted one coat Latex White Paint (Exterior), Including Relocated Fencing Material.

NOT A PART OF THIS CONTRACT



PLAN
Scale: 1" = 100'

DESIGNED BY DRAWN BY <i>M. Busch</i> TRACED BY CHECKED BY <i>R.B.P.</i>		APPROVED: ENGINEER OF EXPRESSWAYS		CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR COMMUNITY DEVELOPMENT COMMISSION			TWELFTH STREET WIDENING WEST GRAND BLVD TO LASALLE GARDENS GENERAL PLAN			SHEET <u>2</u> OF <u>59</u> SHEETS CONTRACT No. M 2000 (017) ASSIGNMENT No. A.O.2091 DATE 5-18-75 C-5523	
COORD.	DESCRIPTION	DRN	CKD	APVD	DATE	REVISIONS LOCATED BY COORDINATES ON SHEET					



TYPICAL CROSS-SECTION OF TWELFTH ST. RELOCATION
WEST GRAND BLVD. TO LASALLE GRADENS

NO SCALE

BASEMENT WALL REMOVAL:

1. Remove walls 1'-0" below Prop. Pavt. to 2'-0" behind Face of Curb.
2. Remove walls in Median and Sidewalk Areas to the bottom of the Prop. Pavt. Slab.
3. Remove walls in areas outside the 120' R.O.W. to 1'-0" below the Prop. Surface Elevations.

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

EARTHWORK LEGEND

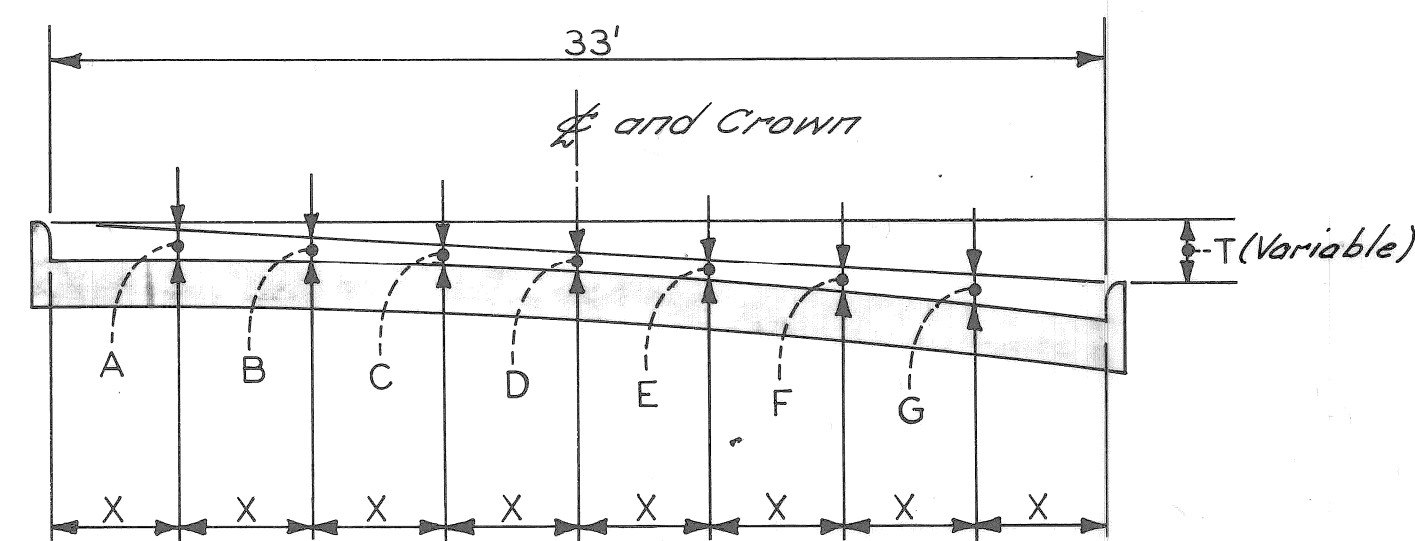
- Fill - Grade A
- Fill - 22A
- Selected Excavated Materials (See Note Below)

JOINT LEGEND

- B - Longitudinal Bulkhead Construction Joint
- D - Longitudinal Lane Tie Joint
- B/D - optional Bar/D Joint

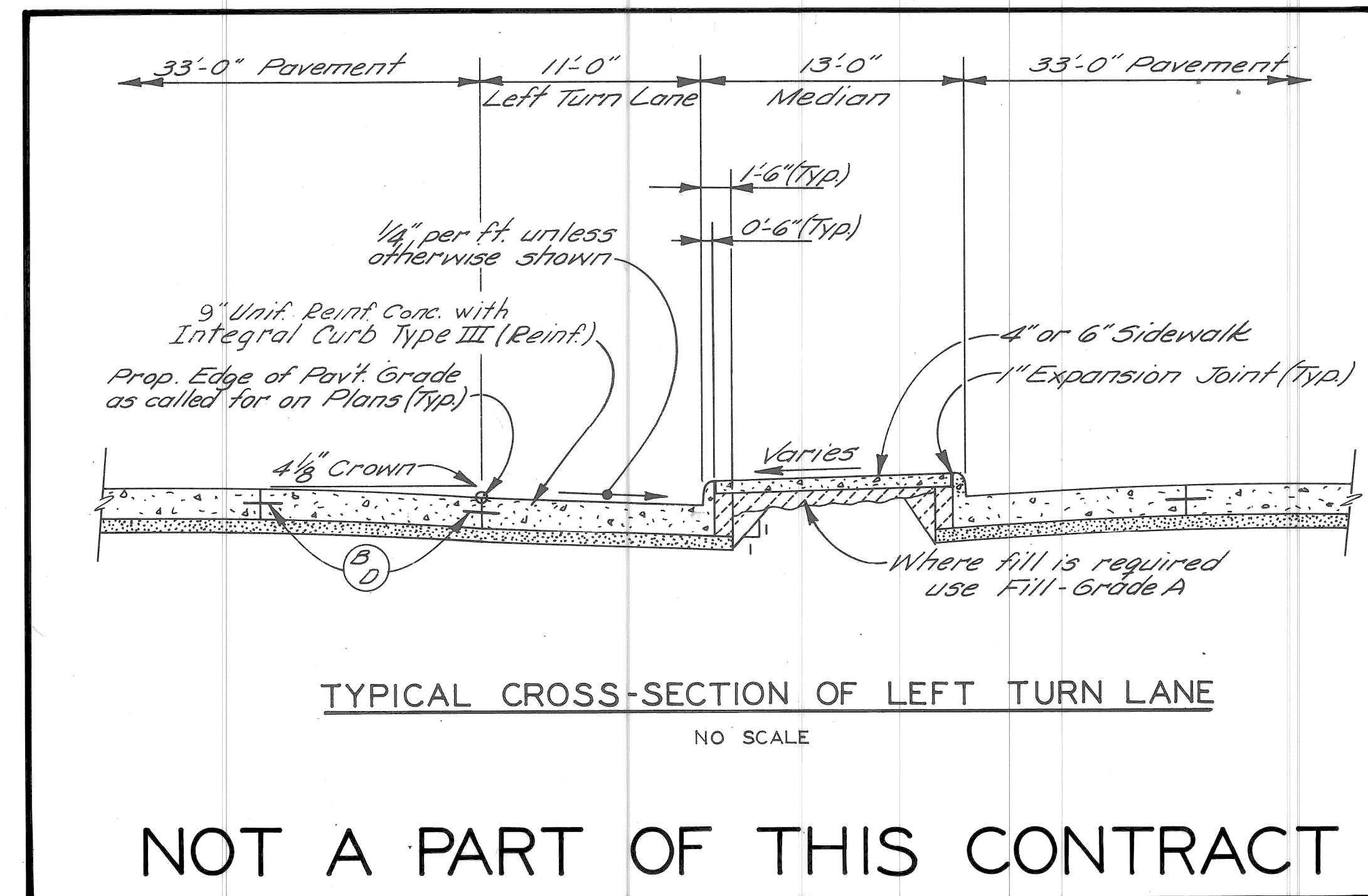
NOTES:

1. If the excavated material is in insufficient quantities for back-filling basements, or does not meet the specified requirements, suitable fill material shall be furnished at no additional cost.
2. Approximately 2200 cu. yds. of Selected Excavated Material will be required for this contract.



PAV'T. WIDTH	CURB HEIGHT	X	T	A	B	C	D	E	F	G
33'	7"	4 1/2"	Variable	5 1/4"	3 3/8"	3 1/8"	2 3/8"	3 3/8"	3 3/8"	5 1/4"

ELEMENTS OF 33' PAVEMENT



TYPICAL CROSS-SECTION OF LEFT TURN LANE

NO SCALE

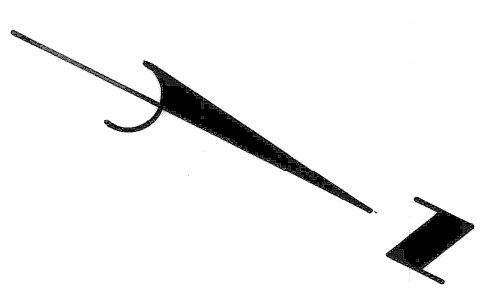
NOT A PART OF THIS CONTRACT

DESIGNED BY		APPROVED:	<i>Walter P. ...</i> ENGINEER OF EXPRESSWAYS
DRAWN BY	M. P.		
CHECKED BY	R. B. P.		
DESCRIPTION	DRN	CK'D	AP'VD
REVISIONS			

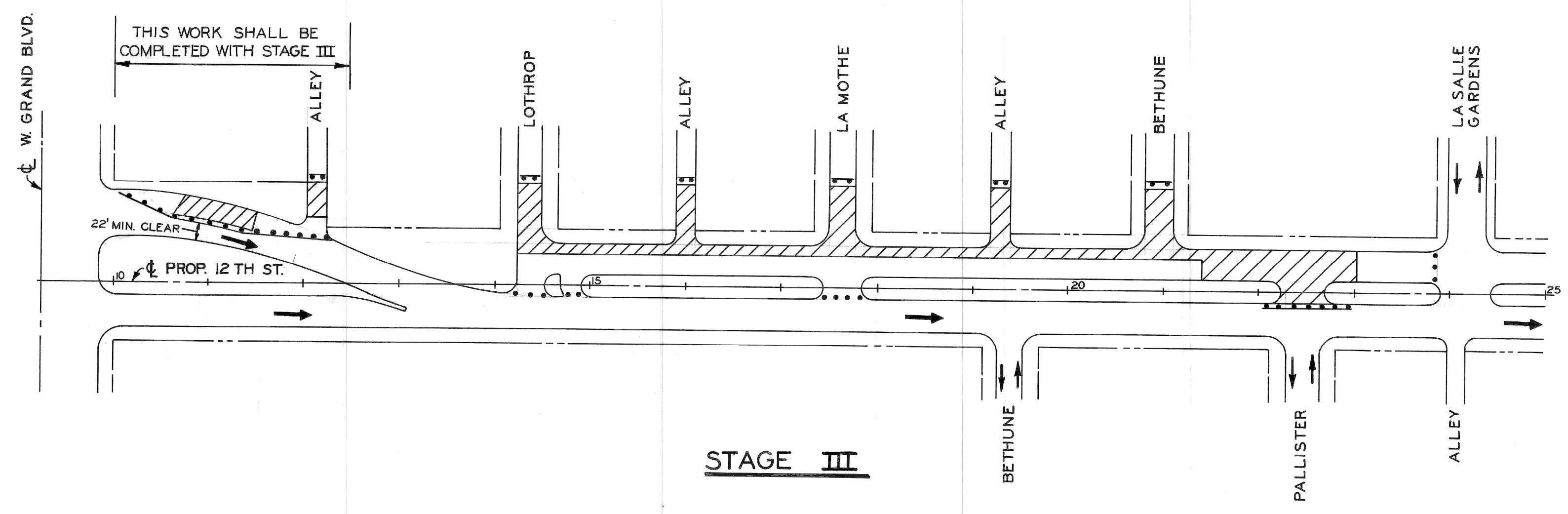
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
FOR
COMMUNITY DEVELOPMENT COMMISSION

TWELFTH STREET WIDENING
WEST GRAND BLVD. TO LASALLE GARDENS
TYPICAL CROSS - SECTIONS

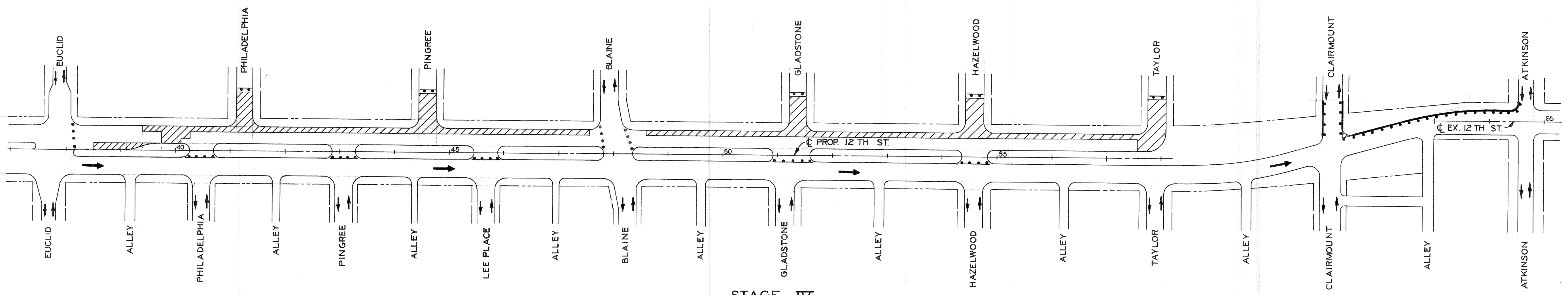
SHEET 3 OF 59 SHEETS
CONTRACT No. M 2000 (017)
ASSIGNMENT No. A.O. 2091
DATE 5-18-75



NOTE:
For Legend, See Sh. #5.



STAGE III



STAGE IV

FOR INFORMATION ONLY

NOTE:
For Legend, See Sh. #5.

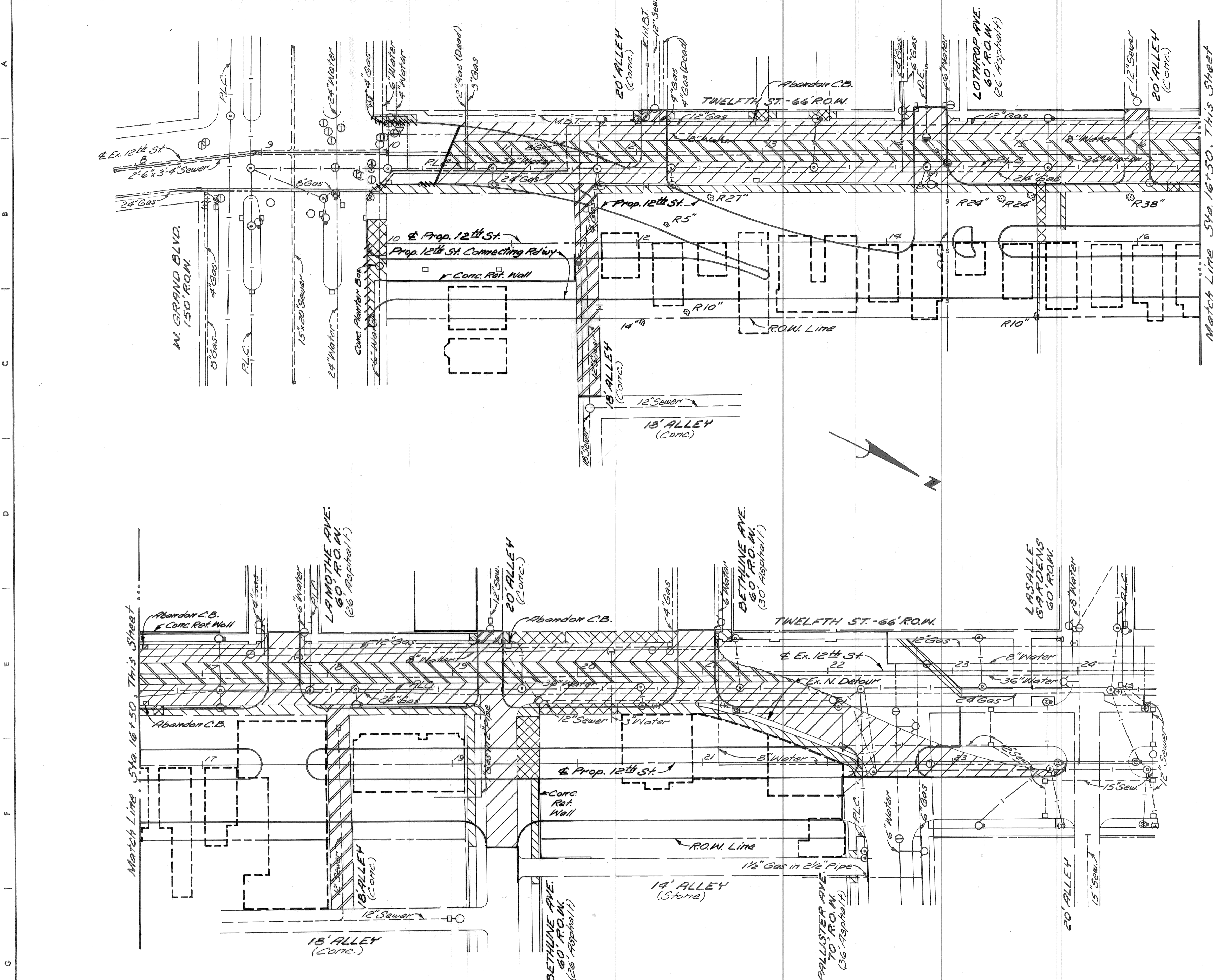
COORD	DESCRIPTION	DRW	CHK'D	AP'D	DATE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					

DESIGNED BY	M.A.P.	APPROVED:	
DRAWN BY		ENGINEER OF EXPRESSWAYS	
TRACED BY			
CHECKED BY	R.A.C.		

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 FOR
 COMMUNITY DEVELOPMENT COMMISSION

TWELFTH STREET WIDENING
 WEST GRAND BLVD. TO LASALLE GARDENS
 CONSTRUCTION SEQUENCE

SHEET	6	OF	59	SHEETS
CONTRACT No.	M 2000(017)			
ASSIGNMENT No.	A.O.2091			
DATE	5-18-75			



REMOVAL LEGEND

Streetcar Rail and Track Base Removal	
Street Pavement Removal - Unreinforced	
Driveway Removal	
Sidewalk Removal	
Alley Pavement Removal	
Existing Basement	
Existing Building to Remain	
Tree Removal	
Separate Type Curb Removal	

NOTES:

1. For Utility Legend, See Sht. No. 14A.
2. The removal of trees less than 4" in diameter is incidental to the contract.

PLAN
Scale: 1" = 40'

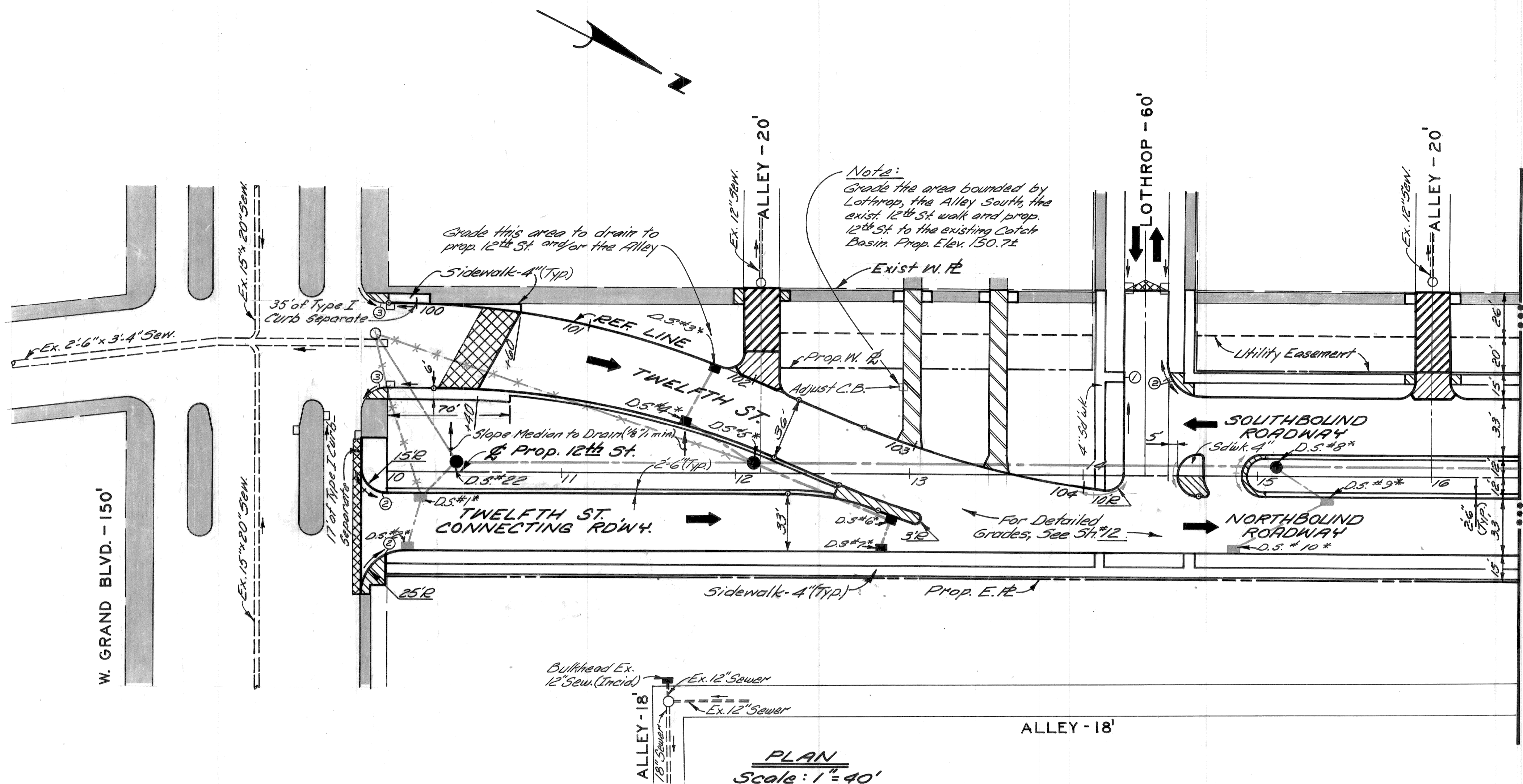
DESIGNED BY DRAWN BY J.R.D. TRACED BY CHECKED BY I.H.K.		APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR COMMUNITY DEVELOPMENT COMMISSION	TWELFTH STREET WIDENING WEST GRAND BLVD. TO LASALLE GARDENS REMOVALS, WEST GRAND BLVD. TO LASALLE GARDENS	SHEET 7 OF 59 SHEETS CONTRACT NO. M 2000 (017) ASSIGNMENT No. A.O. 2091 DATE 5-18-75
--	--	--------------------------------------	---	---	---

P.B.M. #31-251B Elev. 151.069 N.E.
Corner W. Grand Blvd. & Twelfth St.

C.B.M. Elev. 155.32 Arrow on Hydrant
S.W. Corner Twelfth St & Lothrop.

LEGEND

- Strip and Adjust Asphalt Surface
- Concrete Pavement, 9" Uniform (Non-Reinforced)
- Sidewalk - 6" (Sloot Ramp areas are paid for Separately)
- Existing Sidewalk or Driveway to Remain
- Concrete Pavement, 9" Uniform (Reinforced) with Type III Curb Integral (Reinforced)
- Concrete Pavement, 8" Uniform (Non-Reinforced)
- Driveway, 6" Uniform (Residential)
- ① ② ③ Sidewalk Ramps (4" or 6") - Types 1, 2 or 3



PLAN
Scale: 1" = 40'

NOTES:

1. All proposed street return radii are 20' unless otherwise noted.
2. For utility adjustments or reconstructions, See Sh.#13.
3. For Alignment, See Sh.#4.

* D.S. refers to Drainage Structure with Sewer as shown in the table below.

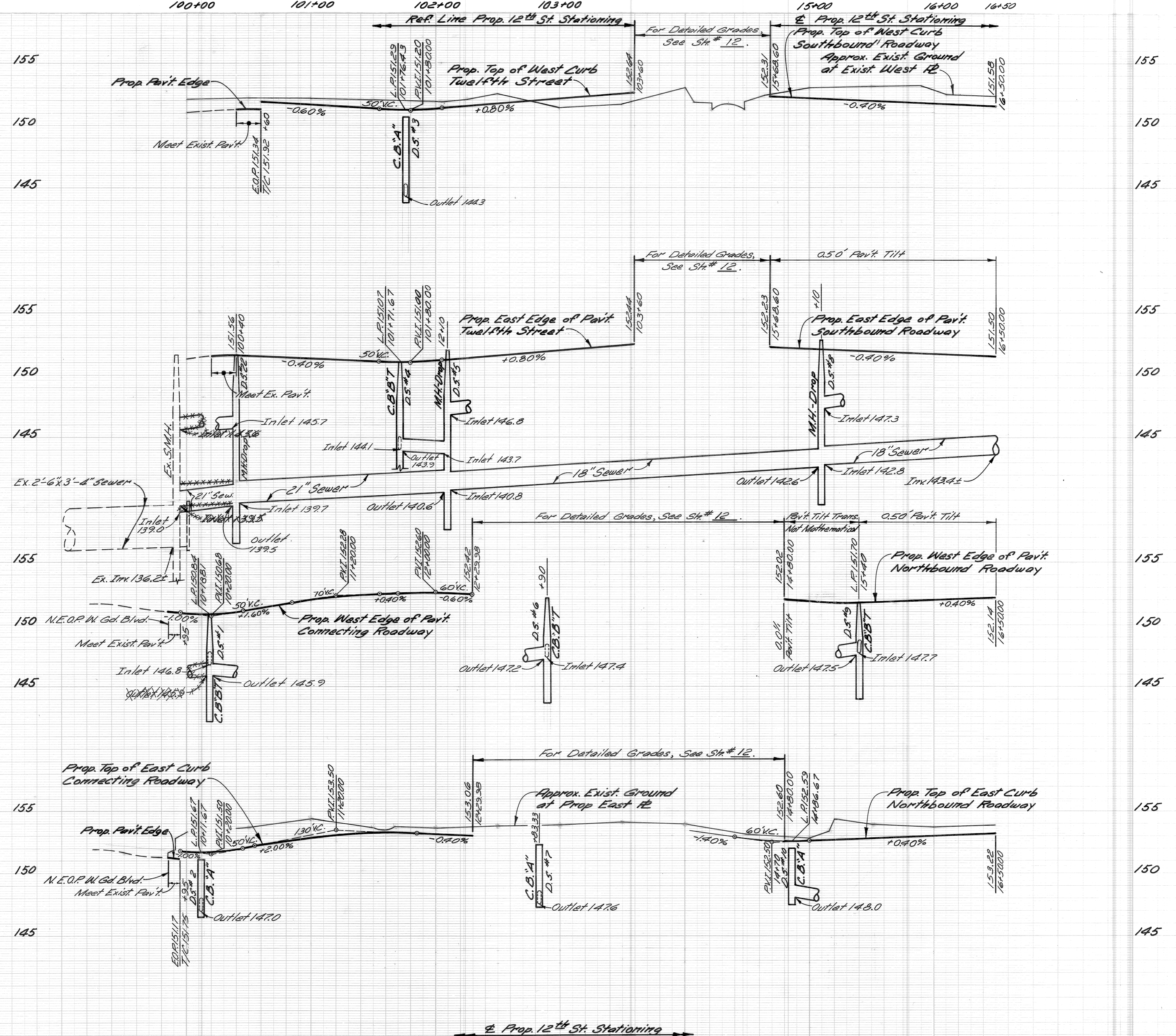
DRAINAGE STRUCTURE NUMBER	TYPE OF STRUCTURE	WITH OR WITHOUT TRAP	SEW. LENGTH & TYPE LEAVING D.S.			COMMENTS
			LENGTH (FT)	SIZE (IN)	CLASS	
1.	C.B. B	With	21	12	C-76-III	Sew. length includes 30' of sewer under part
2.	C.B. A	Without	28	12	"	
3.	C.B. A	"	35	12	"	
4.	C.B. B	With	42	12	"	
5.	M.H. Drop	Without	222.166	21	"	Sew. length includes 66' of sewer under part
6.	C.B. B	With	82	12	"	
7.	C.B. A	Without	17	12	"	
8.	M.H. Drop	"	236.130	18	V-18	
9.	C.B. B	With	31	12	"	
10.	C.B. A	Without	58	12	"	
22	M.H. Drop	"	83	21	"	Sew. length includes 34' of sewer under part

• consists of 18" Sewer (Entering) from Match Line.

On The Job Training ----- 2 Each

<p>REFERENCE DRAWINGS</p> <p>D-4 Add D.S. #22 & Accompanying Sewer</p> <p>DESIGNED BY: J.R.D.</p> <p>DRAWN BY: J.R.D.</p> <p>TRACED BY:</p> <p>CHECKED BY: R.A.C.</p>	<p>APPROVED:</p> <p>ENGINEER OF EXPRESSWAYS</p>	<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR COMMUNITY DEVELOPMENT COMMISSION</p>	<p>TWELFTH STREET WIDENING WEST GRAND BLVD. TO LASALLE GARDENS PLAN, WEST GRAND BLVD. TO STA. 16 + 50</p>	<p>SHEET 8 OF 59 SHEETS</p> <p>CONTRACT No. M 2000 (017)</p> <p>ASSIGNMENT No. A.O. 2091</p> <p>DATE 5-18-75</p>
---	---	---	--	--

FINAL R.O.W.



DESIGNED BY		APPROVED:	
DRAWN BY	M.S.	ENGINEER OF EXPRESSWAYS	
TRACED BY			
CHECKED BY	R.B.P.		

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 FOR
COMMUNITY DEVELOPMENT COMMISSION

TWELETH STREET WIDENING
 WEST GRAND BLVD. TO LASALLE GARDENS
 PROFILES WEST GRAND BLVD. TO STA. 16+50

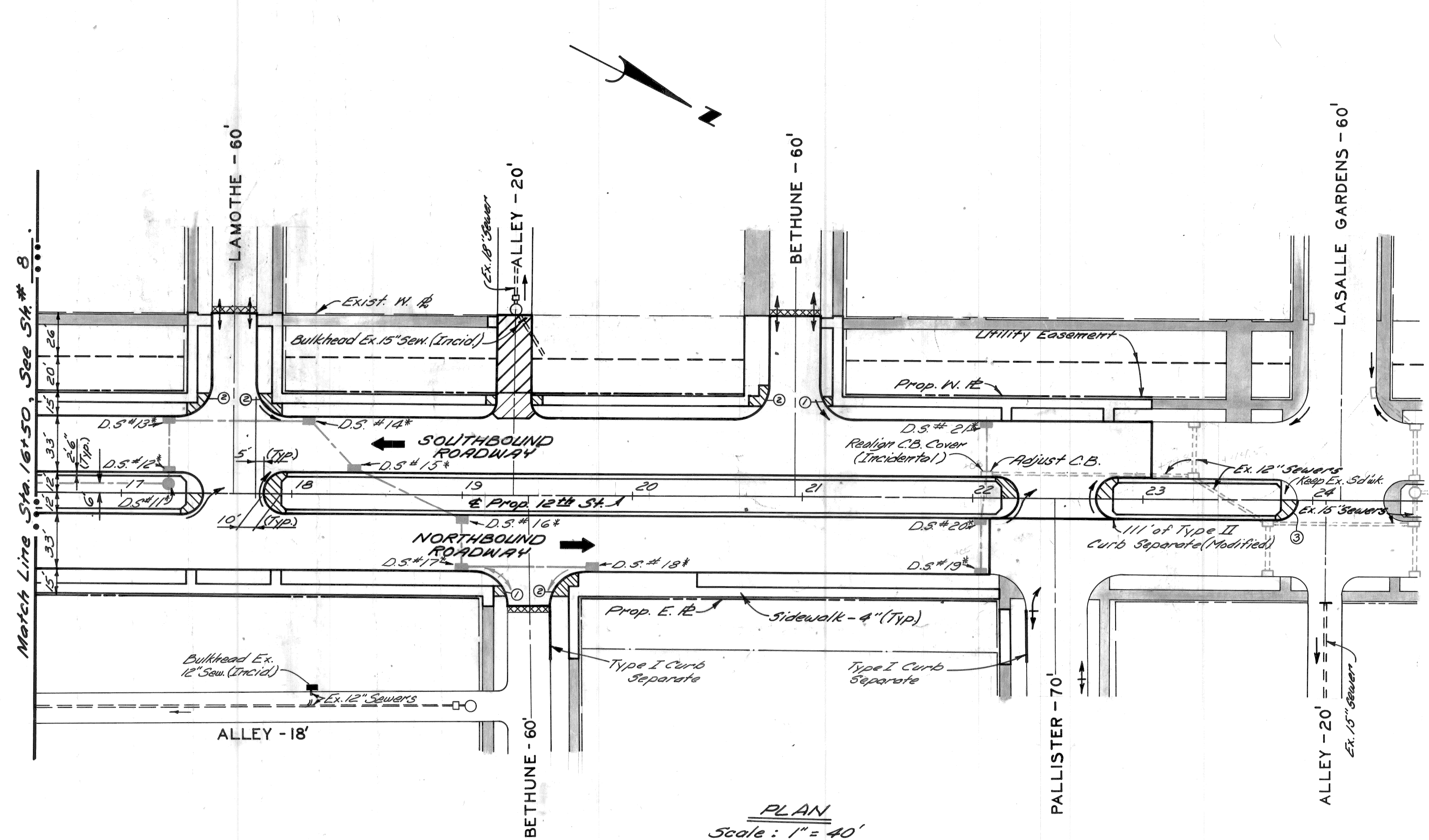
HEET 9 OF 59 SHEETS
CONTRACT NO. M 2000 (017)
ASSIGNMENT NO. AD 2091
DATE 5-18-75

C-5523

C.B.M. Elev. 155.00 Arrow on Hydrant
S.W. Corner Twelfth & LaMothe.

C.B.M. Elev. 156.26 Arrow on Hydrant
N.W. Corner Twelfth & Bethune.

C.B.M. Elev. 155.97 Arrow on Hydrant
S.W. Corner Twelfth & LaSalle Gardens.



LEGEND

- Strip & Adjust Asphalt Surface
- Conc. Pavt - 9" Uniform (Non-Reinf.)
- Sidewalk - 6" (Sdsk Ramp areas are paid for Separately)
- Exist. Sidewalk or Driveway to Remain
- Conc. Pavt - 9" Uniform (Reinf.) with Type III Curb Integral (Reinf.)
- Conc. Pavt - 8" Uniform (Non-Reinf.)
- Driveway - 8" Uniform (Commercial)
- Sidewalk Ramps - 6", Types 1, 2 or 3

NOTES:

1. All proposed street return radii are 20' unless otherwise noted.
2. For Utility adjustments or reconstructions, See Sh. # 13.
3. For Alignment, See Sh. # 4.
4. For Driveway Details, See Sh. # 14A.

* D.S. refers to Drainage Structure with Sewer as shown in the table below.

DRAINAGE STRUCTURE NUMBER	TYPE OF STRUCTURE	WITH OR WITHOUT TRAP	SEW. LENGTH & TYPE LEAVING D.S.			COMMENTS
			LENGTH (FT.)	SIZE (IN)	CLASS	
11	M.H. Std.	Without	76	18	C-76-III	
12	C.B. B	With	3	15	"	
13	C.B. B	Without	27	15	"	
14	C.B. B	"	78	15	"	
15	C.B. B	"	36	12	"	
16	C.B. B	"	66	12	"	
17	C.B. B	"	27	12	"	
18	C.B. A	"	74	12	"	
19	C.B. A	"	27	12	"	
20	C.B. B	"	22	12	"	Place 2'-0" Sump
21	C.B. B	"	27	12	"	Place 2'-0" Sump

DESIGNED BY	J.R.D.	APPROVED:	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR COMMUNITY DEVELOPMENT COMMISSION				TWELFTH STREET WIDENING WEST GRAND BLVD. TO LASALLE GARDENS		SHEET 10 OF 59 SHEETS	
DRAWN BY	J.R.D.	ENGINEER OF EXPRESSWAYS					PLAN, STA. 16+50 TO LASALLE GARDENS		ASSIGNMENT No. A.O. 2091	
CHECKED BY	R.A.C.						DATE 5-18-75		11 C-5523	



16+50 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00

DESIGNED BY	
DRAWN BY	J.R.D.
TRACED BY	
CHECKED BY	R.A.C.

APPROVED:	
ENGINEER OF EXPRESSWAYS	

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 FOR
COMMUNITY DEVELOPMENT COMMISSION

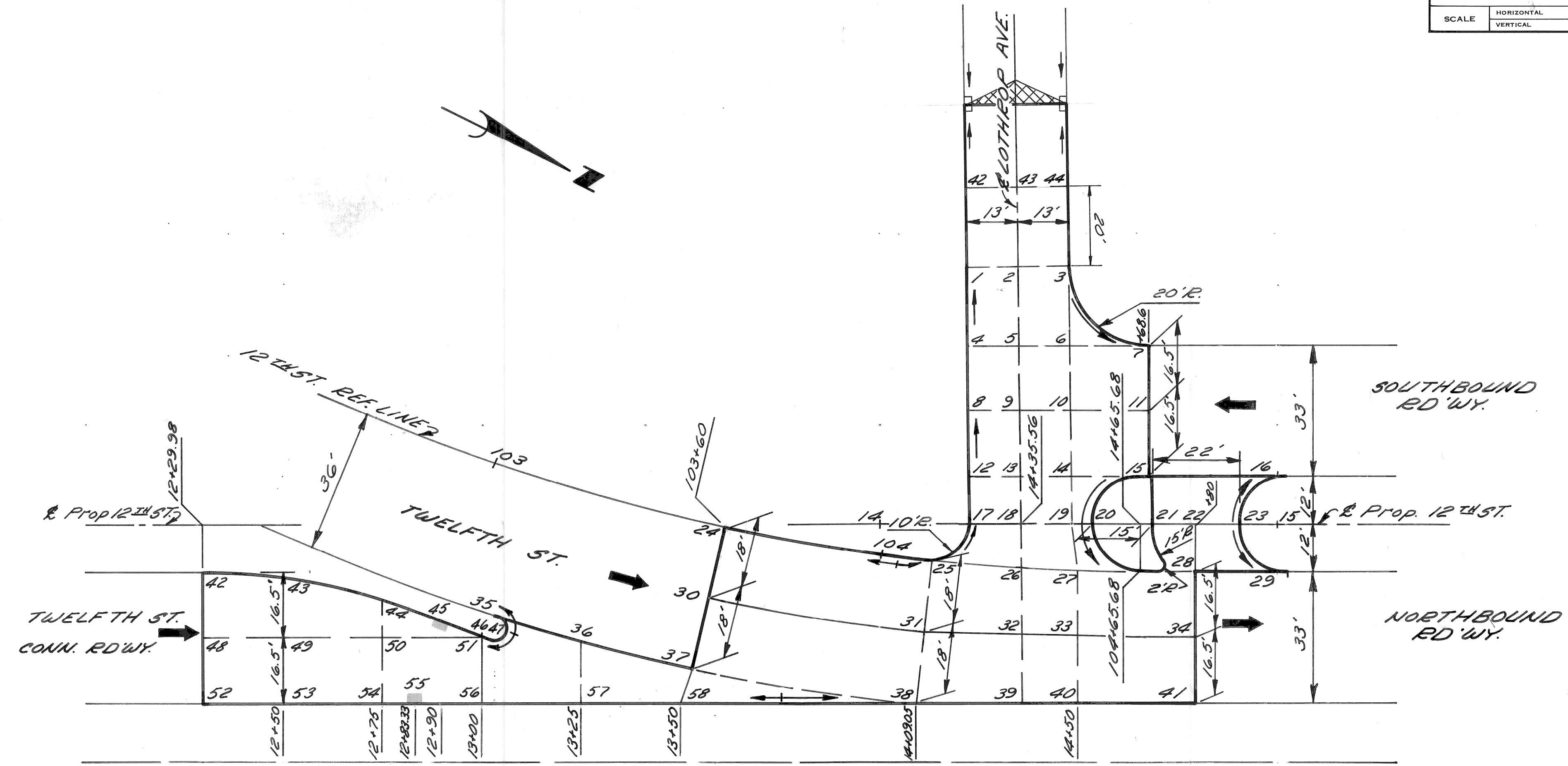
TWELETH STREET WIDENING
 WEST GRAND BLVD. TO LASALLE GARDENS
 PROFILES STA. 16+50 TO LASALLE GARDENS

SHEET 11 OF 59 SHEETS
CONTRACT NO. M 2000 (017)
ASSIGNMENT NO. AC 2091
DATE 5-18-75

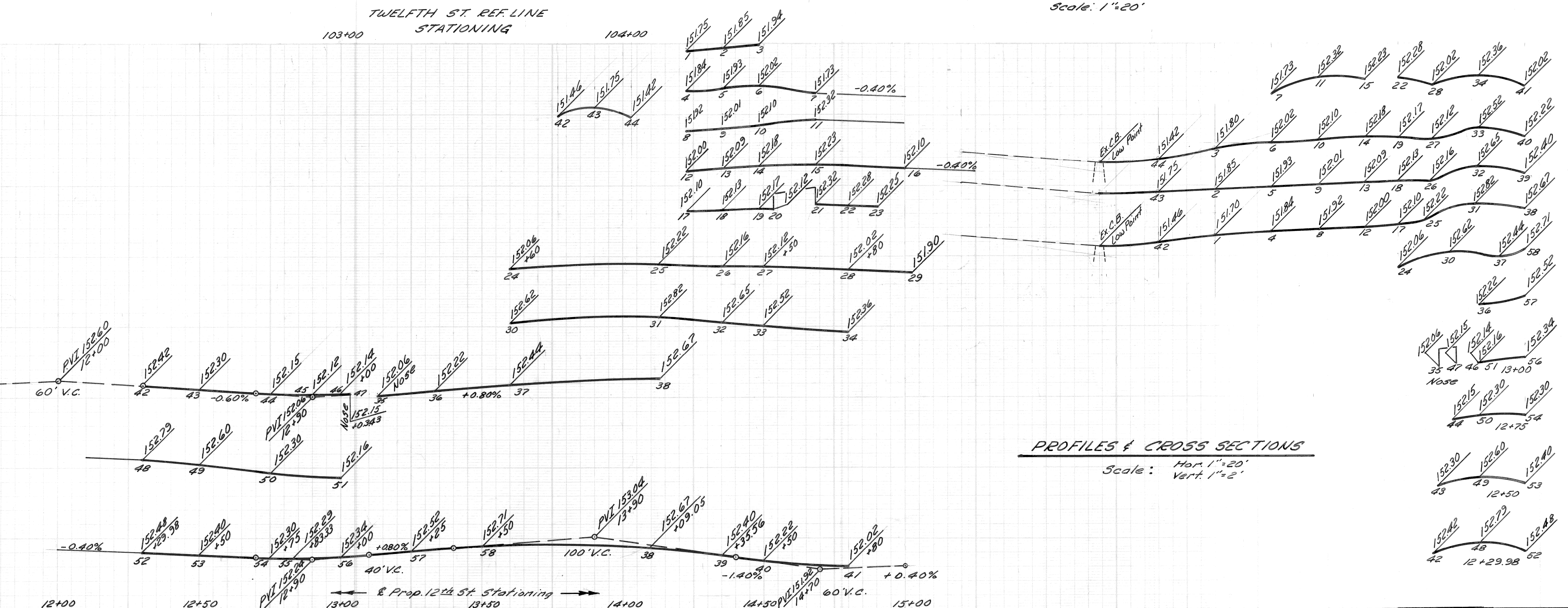
C-5523

BENCH MARKS ELEV.

LEGEND
Strip & Adjust Asphalt Surface: [Symbol]



PLAN
Scale: 1"=20'



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

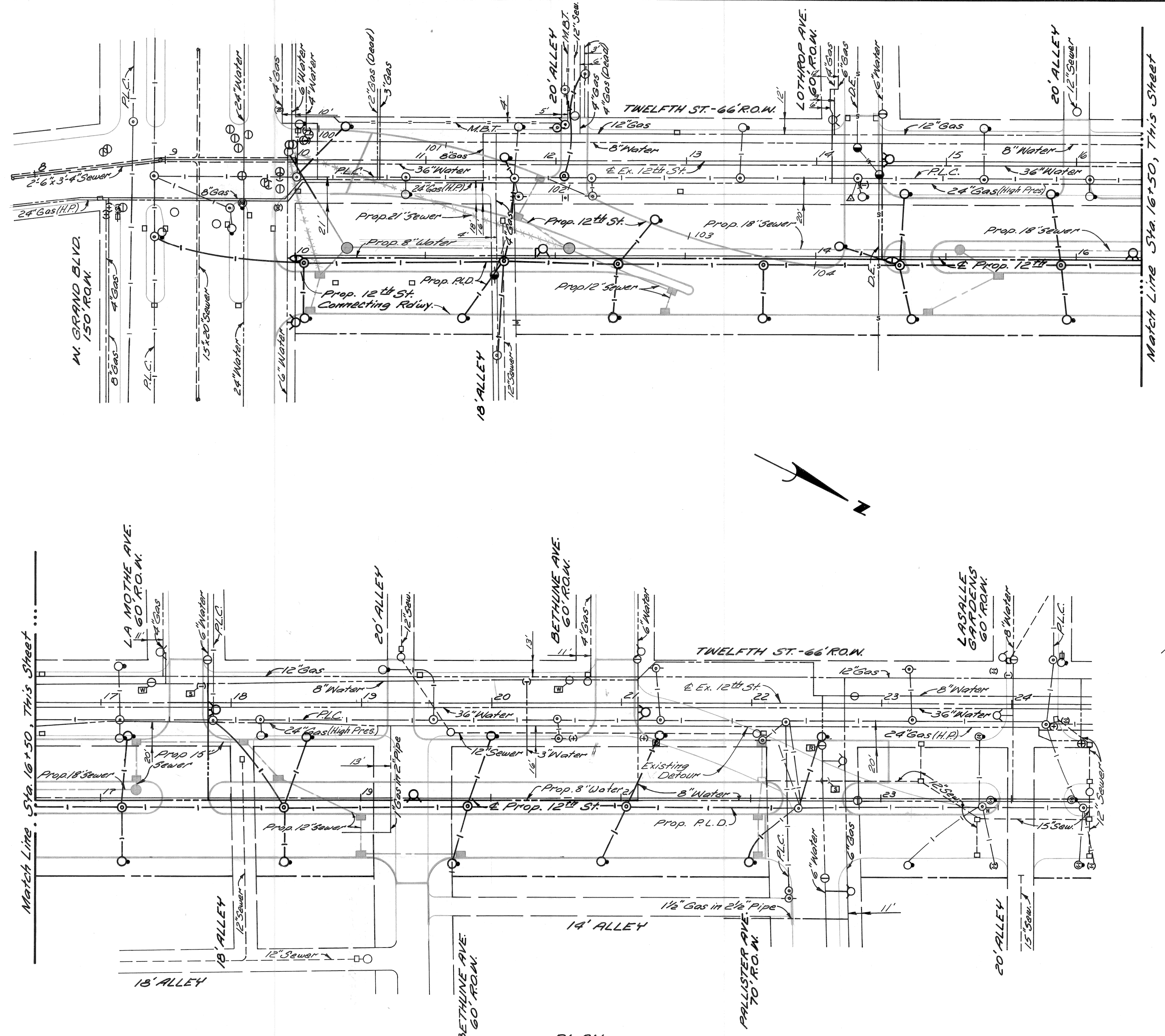
LEGEND
--- Exist Pav't Grade
— Prop. Pav't Grade

BY	CHECKED BY	APPROVED:
PLAN	M.S. R.A.C.	ENGINEER OF EXPRESSWAYS
GRADE	M.S. R.A.C.	
ESTIMATE		
DESCRIPTION	DRN	CK'D
REVISIONS	AP'VD	DATE
FINAL	CHECK	REVIEW

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
FOR
COMMUNITY DEVELOPMENT COMMISSION

TWELFTH STREET WIDENING
WEST GRAND BLVD TO LASALLE GARDENS
DETAILED GRADES FOR TWELFTH ST. AT LOTHROP AVE.

INDEX NO.	12 59
SHEET	OF SHEETS
CONTRACT NO.	M 2000 (017)
ASSIGNMENT NO.	A.O. 2091
DATE	5-18-75



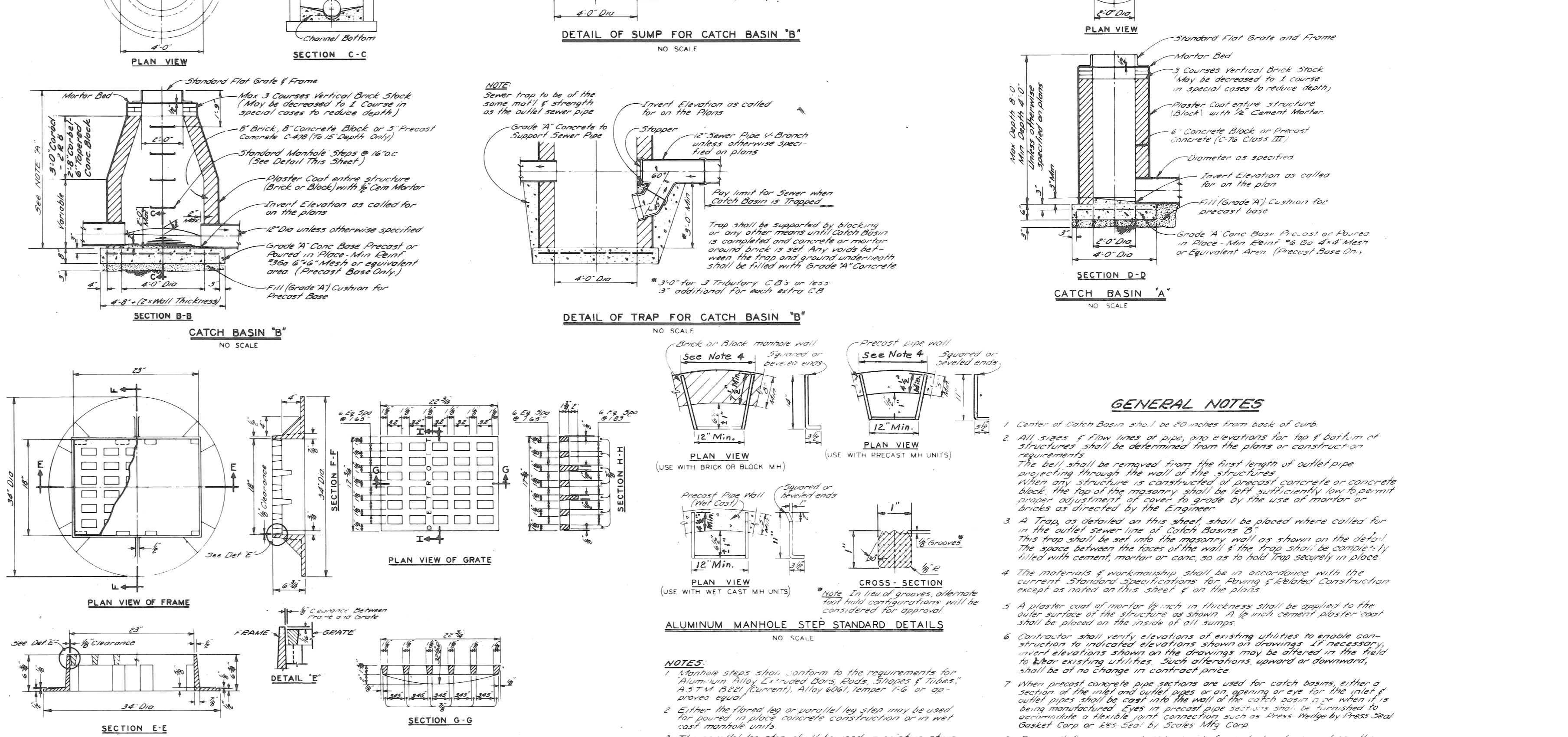
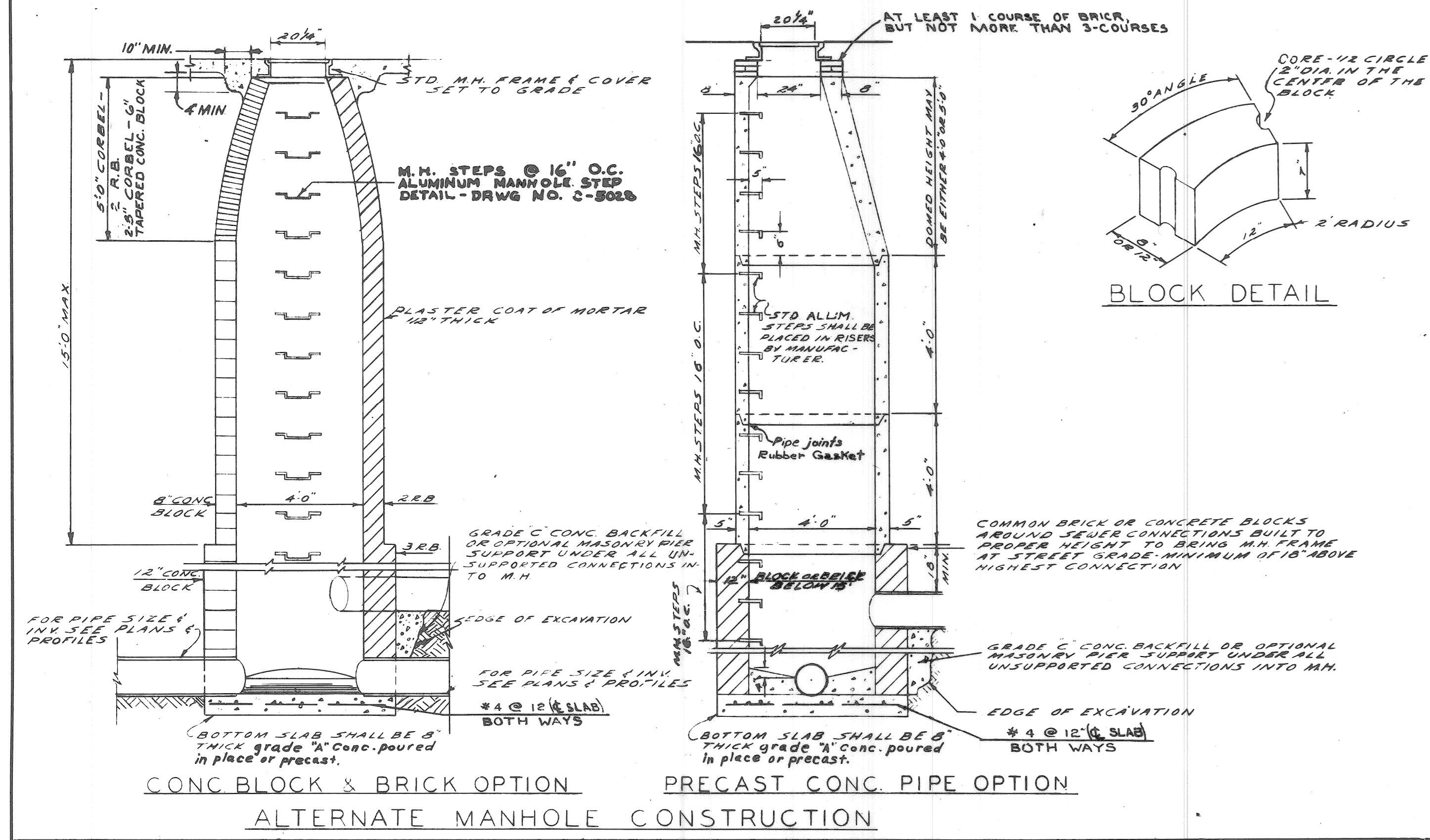
LEGEND

Step Box - Adjustment	S
Manhole (Water) - Adjustment	W
Manhole (Water) - Reconstruct Core	R

NOTES:
 1. For Utility Legend, See Stk # 14A.

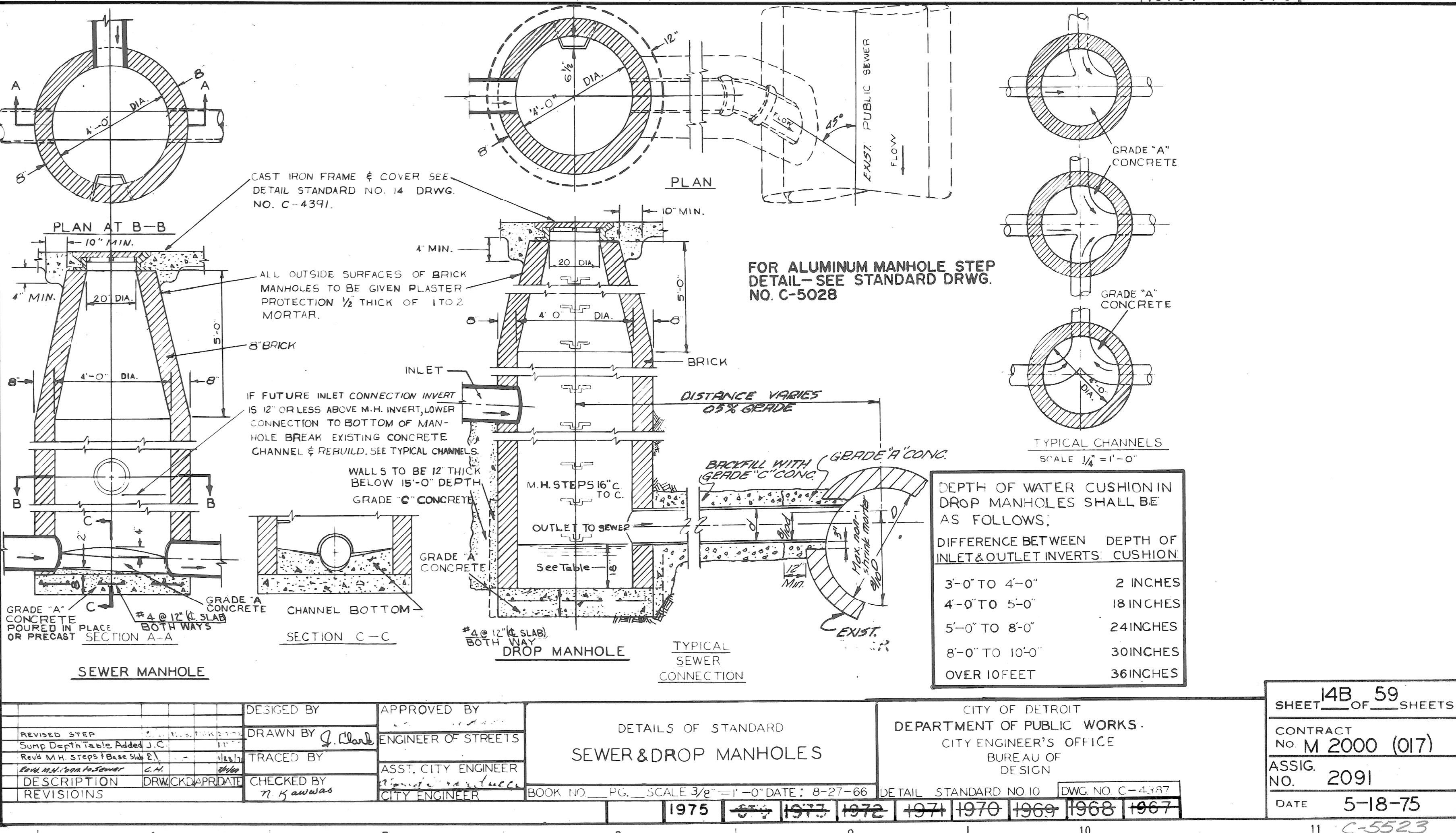
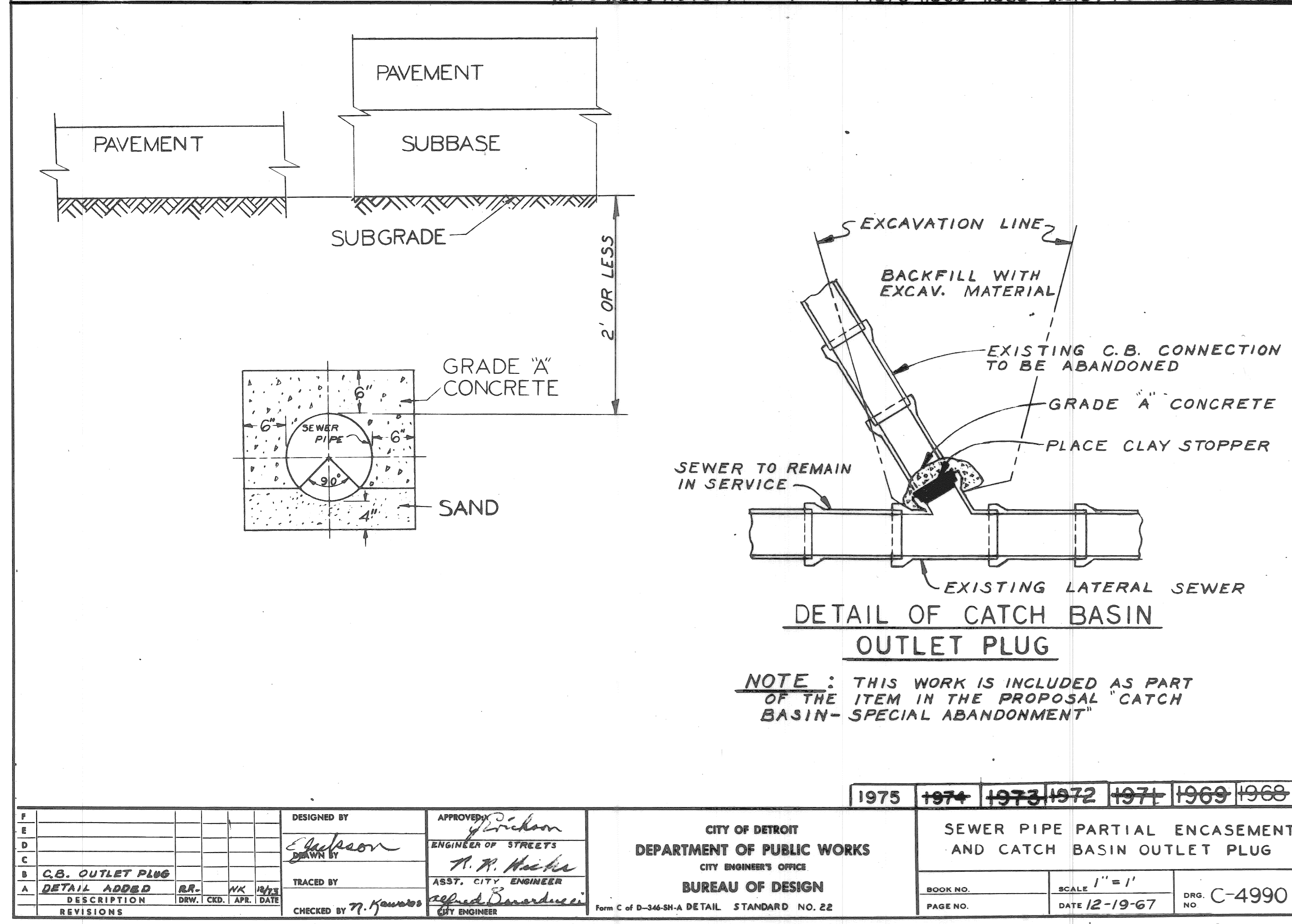
PLAN
 Scale: 1" = 40'

REVISIONS LOCATED BY COORDINATES ON SHEET B-3 Add Manhole & Accompanying Sewers MS.W.B. 2/74		DESIGNED BY J.R.D.	APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR COMMUNITY DEVELOPMENT COMMISSION	TWELFTH STREET WIDENING WEST GRAND BLVD. TO LASALLE GARDENS UTILITY, WEST GRAND BLVD. TO LASALLE GARDENS	SHEET 13 OF 59 SHEETS
		DRAWN BY J.R.D.				CONTRACT No. M 2000 (017)
		CHECKED BY I.H.K.				ASSIGNMENT No. AD.2091 DATE 5-18-75



DESIGNED BY		APPROVED		CITY OF DETROIT		STD. SEWER MANHOLES	
DRAWN BY		ENGINEER OF STREETS		DEPARTMENT OF PUBLIC WORKS		CONSTRUCTION ALTERNATES	
TRACED BY		CITY ENGINEER'S OFFICE		BUREAU OF DESIGN		SCALE: NONE	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 18		DWG. NO. C-4395 A	
REVISIONS		DATE		1975 1974 1973 1972 1971 1969 1968		1970 1969 1968 1967 1966 1965 1964	

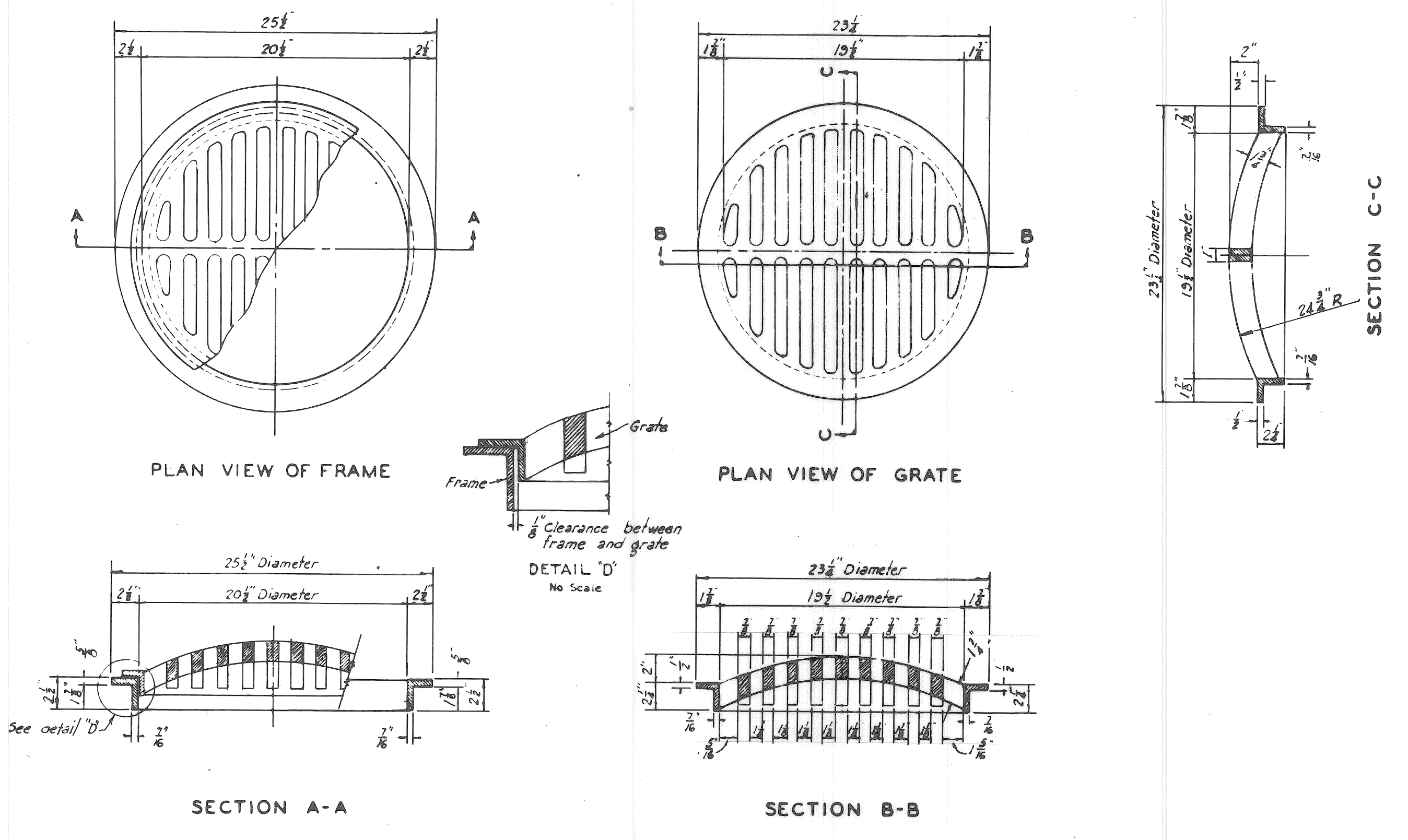
DESIGNED BY		APPROVED		CITY OF DETROIT		DETAILS OF STANDARD	
DRAWN BY		ENGINEER OF STREETS		DEPARTMENT OF PUBLIC WORKS		CATCH BASINS "A" & "B"	
TRACED BY		CITY ENGINEER'S OFFICE		BUREAU OF DESIGN		AND FLAT GRATE & FRAME	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10		DWG. NO. C-5028	
REVISIONS		DATE		1975 1974 1973 1972 1971 1969 1968		1975 1974 1973	



DESIGNED BY		APPROVED		CITY OF DETROIT		SEWER PIPE PARTIAL ENCASEMENT	
DRAWN BY		ENGINEER OF STREETS		DEPARTMENT OF PUBLIC WORKS		AND CATCH BASIN OUTLET PLUG	
TRACED BY		CITY ENGINEER'S OFFICE		BUREAU OF DESIGN		SCALE: 1" = 1'	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 22		DWG. NO. C-4990	
REVISIONS		DATE		1975 1974 1973 1972 1971 1969 1968		1975 1974 1973 1972 1971 1969 1968	

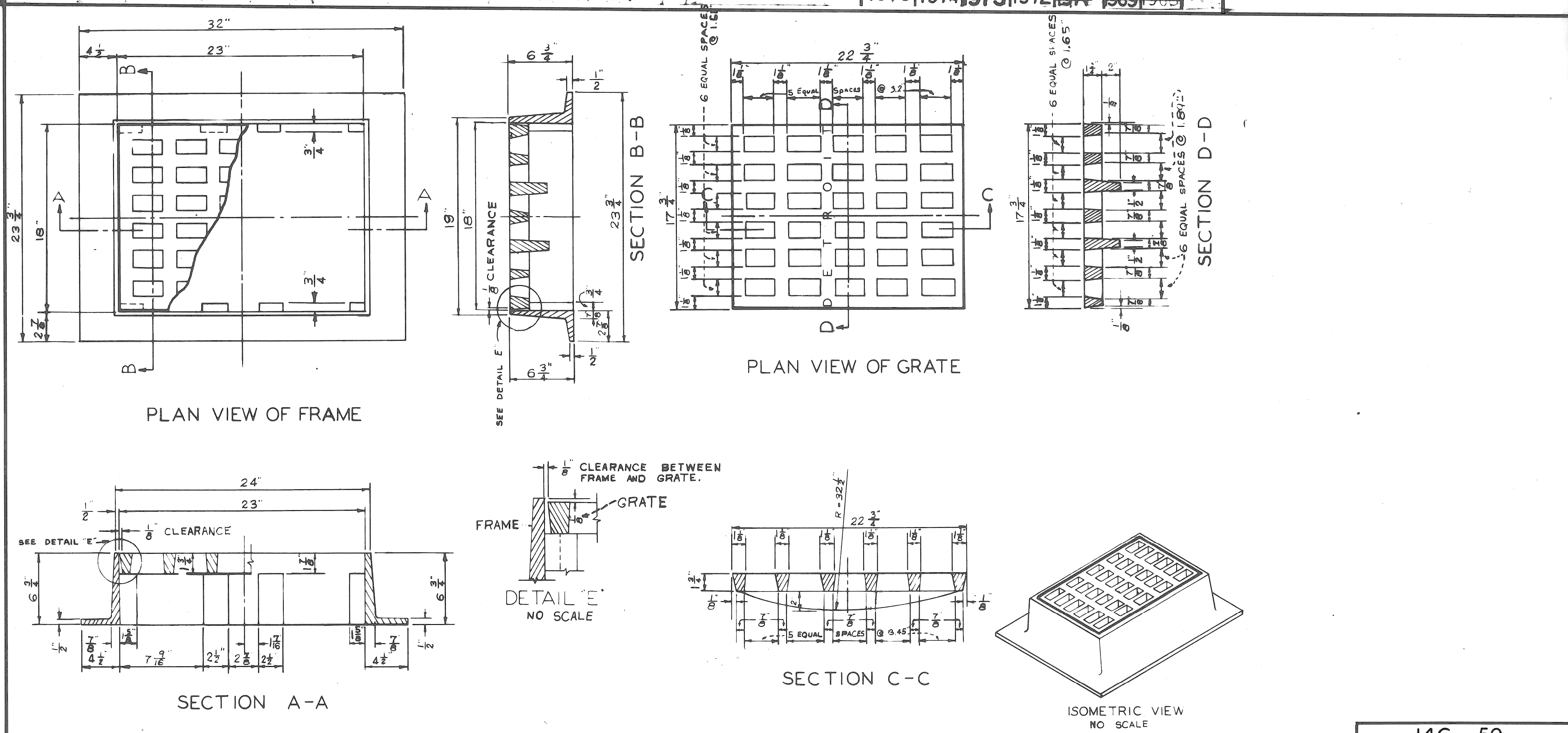
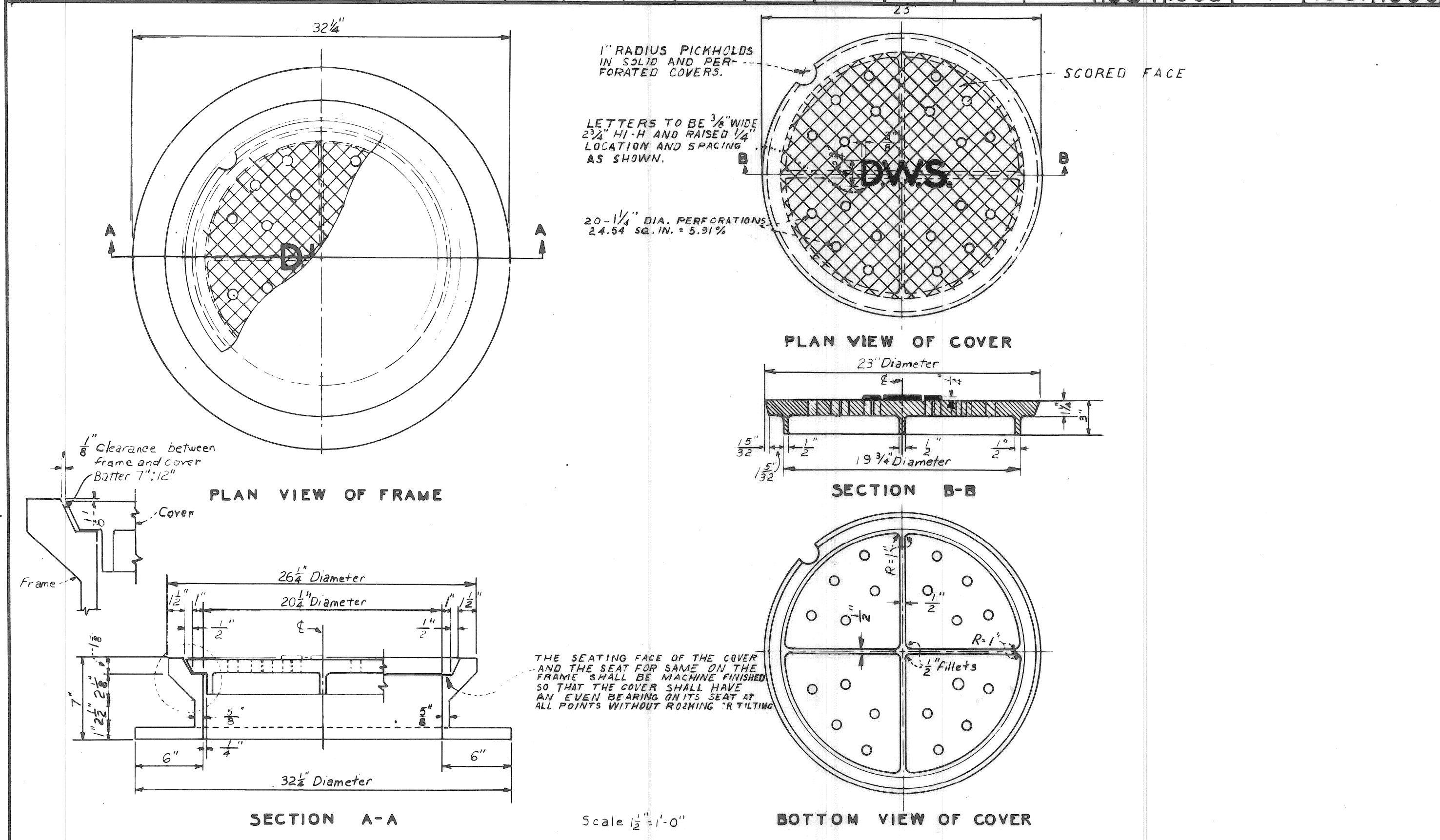
DESIGNED BY		APPROVED		CITY OF DETROIT		DETAILS OF STANDARD	
DRAWN BY		ENGINEER OF STREETS		DEPARTMENT OF PUBLIC WORKS		SEWER & DROP MANHOLES	
TRACED BY		CITY ENGINEER'S OFFICE		BUREAU OF DESIGN		SCALE: 3/8" = 1'-0"	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10		DWG. NO. C-4397	
REVISIONS		DATE		1975 1974 1973 1972 1971 1969 1968		1975 1974 1973 1972 1971 1969 1968	

SHEET 14B 59	
OF 59 SHEETS	
CONTRACT NO. M 2000 (017)	
ASSIGN NO. 2091	
DATE 5-18-75	



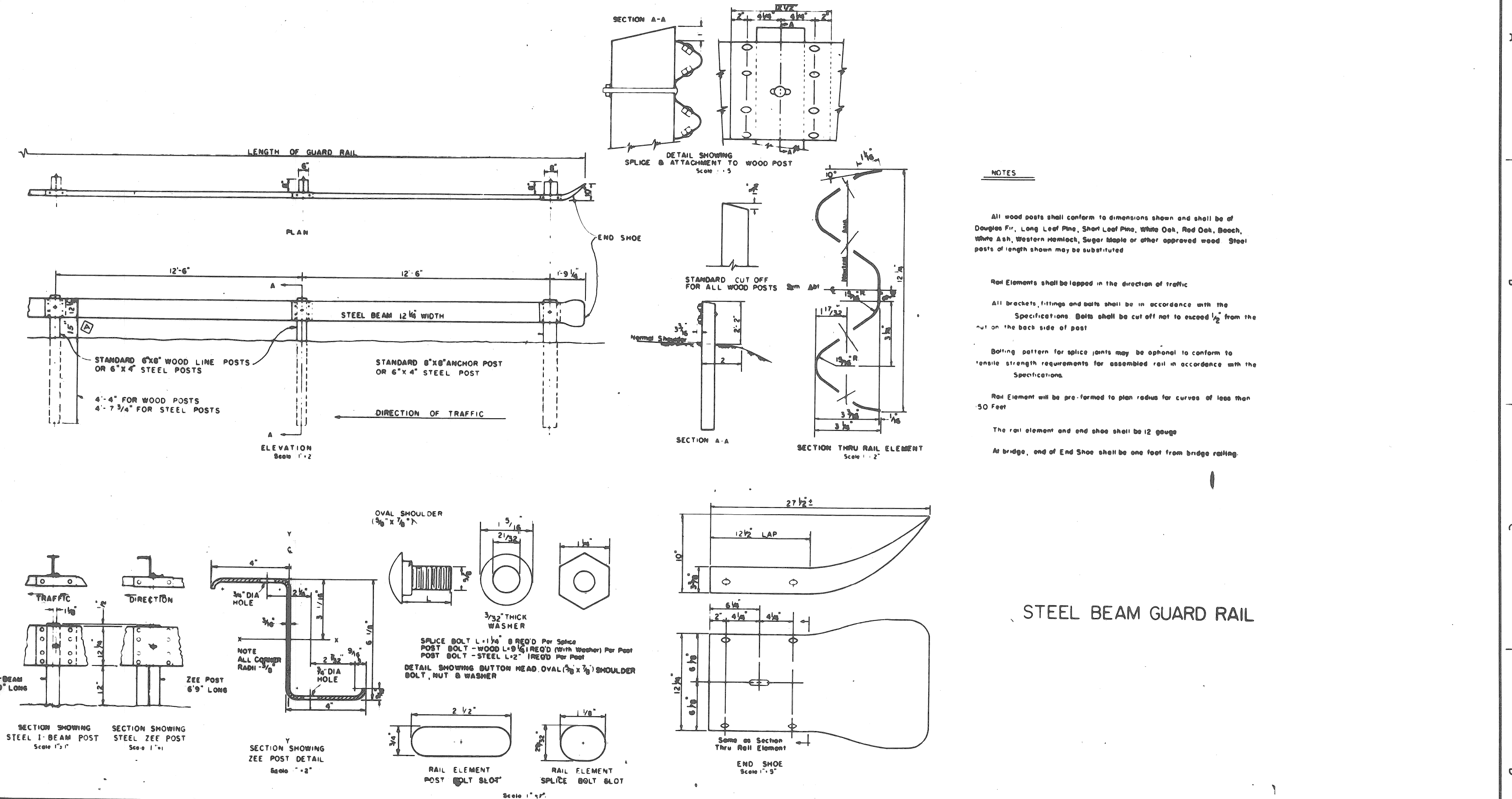
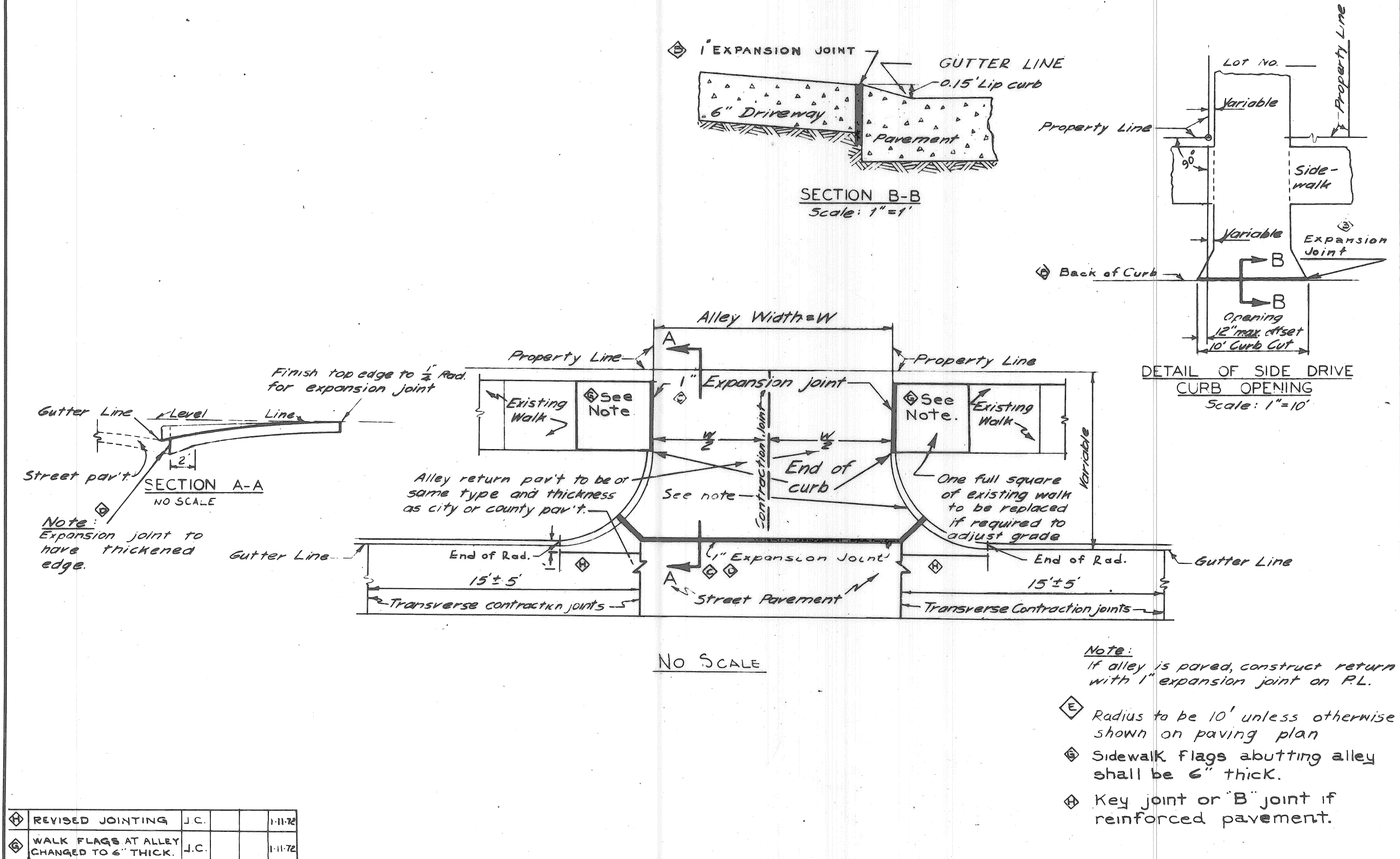
COLOR	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BLACK	---	PROPERTY AND LOT LINES.	○	SEWER MANHOLE.	#	STREET SIGN POST.
---	---	PROPOSED CURB LINES AND HEADERS AT RETURNS.	□	P.L.C. MANHOLE.	□	CATCH BASIN.
---	---	EXISTING CURB LINES OR EDGE OF PAVEMENT.	⊕	WATER MANHOLE OR GRATE.	(W)	WATER METER.
---	---	PROPOSED CURB OR PAVING ON INTERSECTING STREET.	⊕	GAS MANHOLE OR GRATE.	(-)	WATER SHUT-OFF.
---	---	PROPOSED SEWER TO CATCH BASINS.	⊕	WESTERN UNION MANHOLE.	(+)	GAS SHUT-OFF.
---	---	EXISTING LATERAL SEWERS.	⊕	MICHIGAN BELL MANHOLE.	⊕	GAS DRIP.
---	---	EXISTING PUBLIC SEWERS.	⊕	EDISON STEAM MANHOLE.	⊕	DRAIN OR VENT.
---	---	EXISTING GAS LINES.	⊕	EDISON ELECTRIC MANHOLE.	⊕	GUY POLE.
---	---	EXISTING WATER LINES.	⊕	FIRE DEPT. MANHOLE.	+	MAIL BOX.
---	---	ELEV. OF SEWER INVERT.	⊕	POLICE DEPT. MANHOLE.	⊕	AREAWAY OR COAL CHUTE.
---	---	PROPOSED C.B., M.H., & INLET SEWER	⊕	D.S.R. MANHOLE.	⊕	FLAG POLE.
---	---	ELEV.	⊕	FIRE DEPT. STANDARD HYDRANT.	⊕	SPRINKLER BOX.
---	---	EXISTING C.B., M.H., & INLET SEWERS.	⊕	FIRE DEPT. HIGH PRESSURE HYDRANT.	⊕	DEAD MANHOLE.
---	---	PROPOSED C.B., M.H., & INLET SEWERS ON INTERSECTING STREETS.	⊕	FIRE DEPT. CALL BOX.	⊕	TREE.
			⊕	FIRE DEPT. HIGH PRESSURE MANHOLE.	⊕	PLC & F.O. MANHOLE FILLED WITH SAND.
			⊕	POLICE DEPT. CALL BOX.	⊕	TRACK DRAIN.
			⊕	P.L.C. LIGHT POLE.	⊕	TRAFFIC SIGNAL POST.
			⊕	P.L.C. POLE.	⊕	TRAFFIC SIGNAL LIGHT.
			⊕	TELEPHONE POLE.	⊕	TRAFFIC SIGNAL ON LIGHT POST.
			⊕	EDISON POLE.	⊕	D.S.R. DANGER PLATE.

DESIGNED BY: <i>S.P. King</i> DRAWN BY: <i>S.P. King</i> TRACED BY: <i>T.K.</i> CHECKED BY: <i>T. Rawwas</i>	APPROVED: <i>T.A. Hester</i> ENGINEER OF STREETS ASST. CITY ENGINEER	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS BUREAU OF DESIGN DWG. NO. C-4394	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN PAVING DETAIL NO. 25	STANDARD SYMBOLS FOR UTILITIES BOOK NO. _____ SCALE NO. SCALE _____ PAGE NO. _____ DATE 10-11-66 DWG. NO. C-982-A
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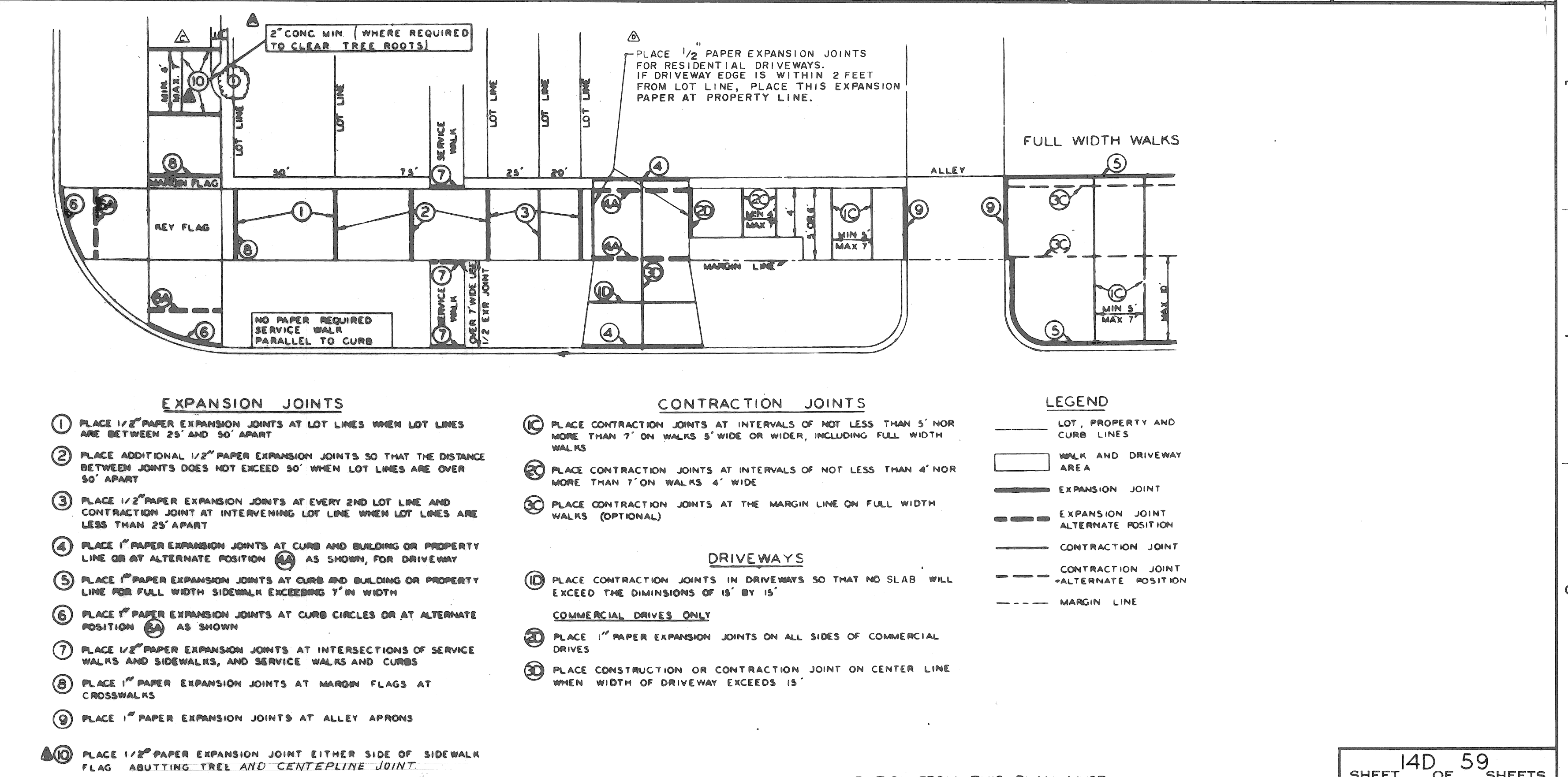
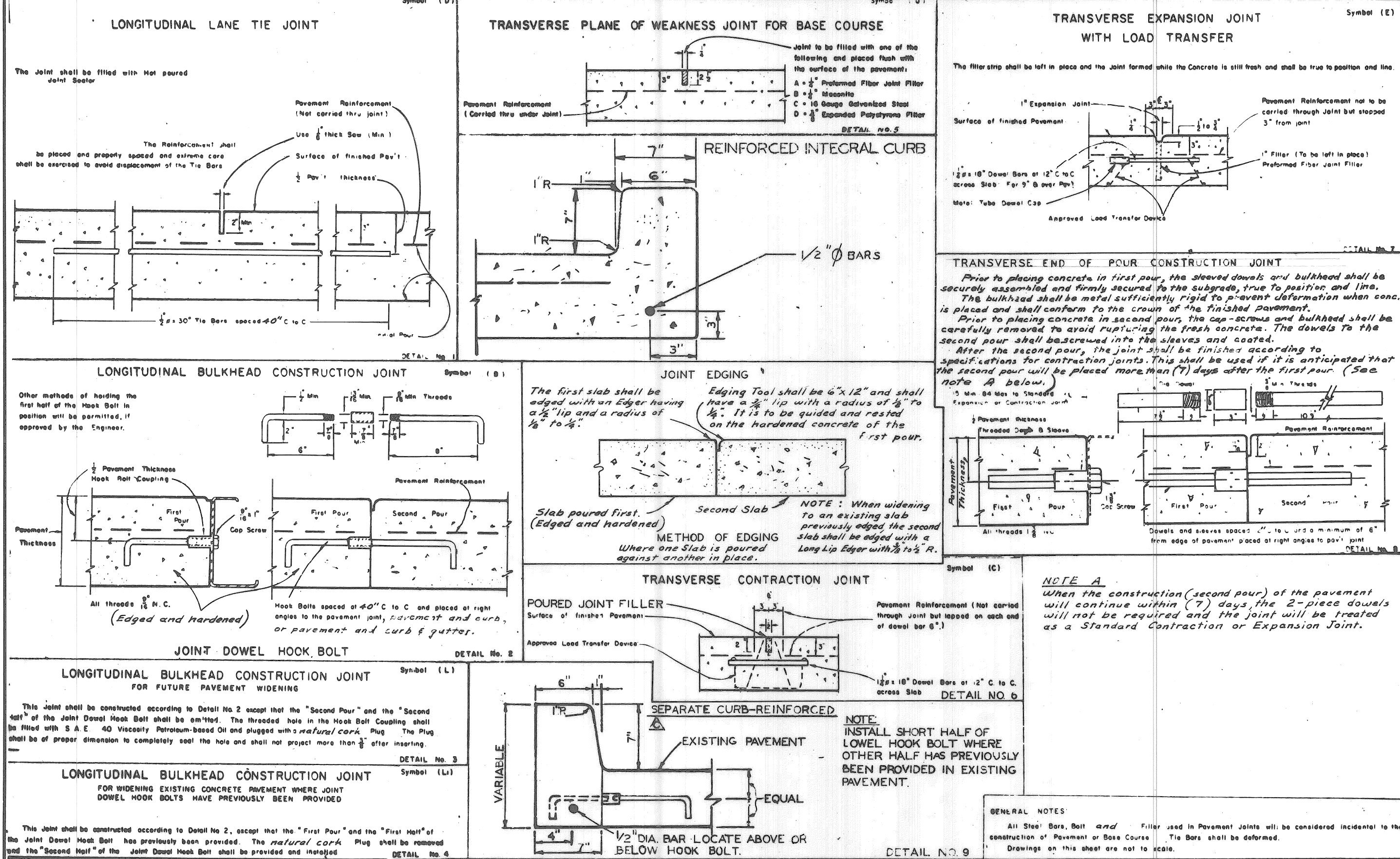
DESIGNED BY: <i>Edison</i> DRAWN BY: <i>Edison</i> TRACED BY: <i>T. Rawwas</i> CHECKED BY: <i>T. Rawwas</i>	APPROVED: <i>Edison</i> ENGINEER OF STREETS ASST. CITY ENGINEER	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS BUREAU OF DESIGN DWG. NO. C-4391	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN DETAILS OF STANDARD FLAT GRATE AND FRAME	STANDARD SYMBOLS FOR UTILITIES BOOK NO. _____ SCALE NO. SCALE _____ PAGE NO. _____ DATE 10-11-66 DWG. NO. C-982-A
--	---	--	--	---

14C 59
SHEET OF SHEETS
CONTRACT NO. M 2000 (017)
ASSIG. NO. A.O. 2091
DATE 5-18-75



REVISIONS	DESCRIPTION	DRW.	CHKD.	APR.	DATE
1	CHANGING ALLEY RETURN TO 6" THICK	J.C.			11-11-72
2	WALK FLAGS AT ALLEY CHANGED TO 6" THICK	J.C.			11-11-72
3	ADD NOTE	J.C.			11-11-72
4	ADD NOTE	J.C.			11-11-72
5	ADD NOTE	J.C.			11-11-72
6	ADD NOTE	J.C.			11-11-72
7	ADD NOTE	J.C.			11-11-72
8	ADD NOTE	J.C.			11-11-72
9	ADD NOTE	J.C.			11-11-72
10	ADD NOTE	J.C.			11-11-72
11	ADD NOTE	J.C.			11-11-72
12	ADD NOTE	J.C.			11-11-72
13	ADD NOTE	J.C.			11-11-72
14	ADD NOTE	J.C.			11-11-72
15	ADD NOTE	J.C.			11-11-72
16	ADD NOTE	J.C.			11-11-72
17	ADD NOTE	J.C.			11-11-72
18	ADD NOTE	J.C.			11-11-72
19	ADD NOTE	J.C.			11-11-72
20	ADD NOTE	J.C.			11-11-72

REVISIONS	DESCRIPTION	DRW.	CHKD.	APR.	DATE
1	CHANGED DIM. TO 15" C WOOD POST	J.C.			11-11-72
2	ADD NOTE	J.C.			11-11-72
3	ADD NOTE	J.C.			11-11-72
4	ADD NOTE	J.C.			11-11-72
5	ADD NOTE	J.C.			11-11-72
6	ADD NOTE	J.C.			11-11-72
7	ADD NOTE	J.C.			11-11-72
8	ADD NOTE	J.C.			11-11-72
9	ADD NOTE	J.C.			11-11-72
10	ADD NOTE	J.C.			11-11-72
11	ADD NOTE	J.C.			11-11-72
12	ADD NOTE	J.C.			11-11-72
13	ADD NOTE	J.C.			11-11-72
14	ADD NOTE	J.C.			11-11-72
15	ADD NOTE	J.C.			11-11-72
16	ADD NOTE	J.C.			11-11-72
17	ADD NOTE	J.C.			11-11-72
18	ADD NOTE	J.C.			11-11-72
19	ADD NOTE	J.C.			11-11-72
20	ADD NOTE	J.C.			11-11-72



REVISIONS	DESCRIPTION	DRW.	CHKD.	APR.	DATE
1	REVISION	J.C.			11-11-72
2	REVISION	J.C.			11-11-72
3	REVISION	J.C.			11-11-72
4	REVISION	J.C.			11-11-72
5	REVISION	J.C.			11-11-72
6	REVISION	J.C.			11-11-72
7	REVISION	J.C.			11-11-72
8	REVISION	J.C.			11-11-72
9	REVISION	J.C.			11-11-72
10	REVISION	J.C.			11-11-72
11	REVISION	J.C.			11-11-72
12	REVISION	J.C.			11-11-72
13	REVISION	J.C.			11-11-72
14	REVISION	J.C.			11-11-72
15	REVISION	J.C.			11-11-72
16	REVISION	J.C.			11-11-72
17	REVISION	J.C.			11-11-72
18	REVISION	J.C.			11-11-72
19	REVISION	J.C.			11-11-72
20	REVISION	J.C.			11-11-72

REVISIONS	DESCRIPTION	DRW.	CHKD.	APR.	DATE
1	REVISION	J.C.			11-11-72
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3	REVISION	J.C.			11-11-72
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5	REVISION	J.C.			11-11-72
6	REVISION	J.C.			11-11-72
7	REVISION	J.C.			11-11-72
8	REVISION	J.C.			11-11-72
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10	REVISION	J.C.			11-11-72
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18	REVISION	J.C.			11-11-72
19	REVISION	J.C.			11-11-72
20	REVISION	J.C.			11-11-72

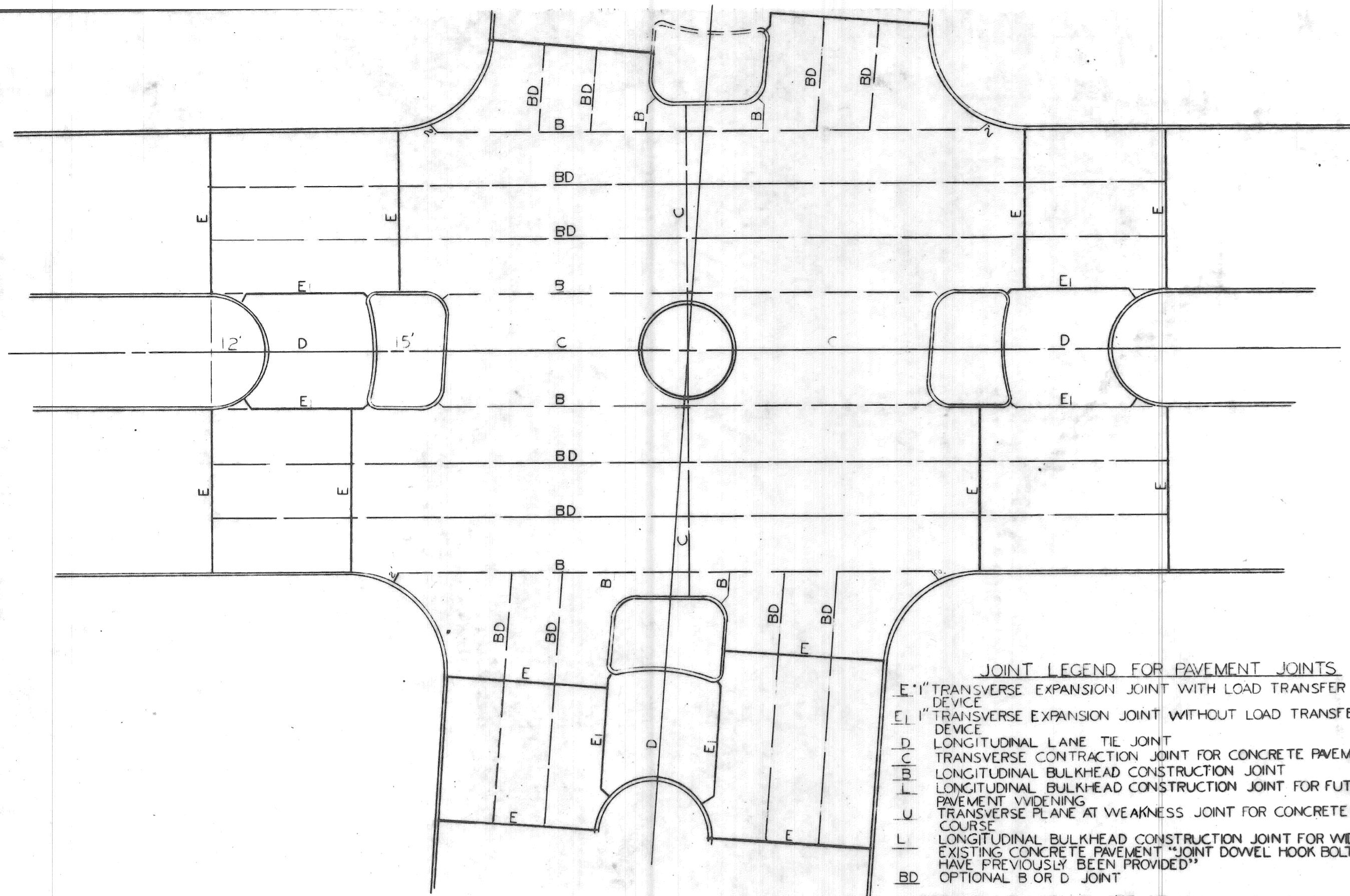
14D 59
SHEET OF SHEETS

CONTRACT No. M2000 (017)

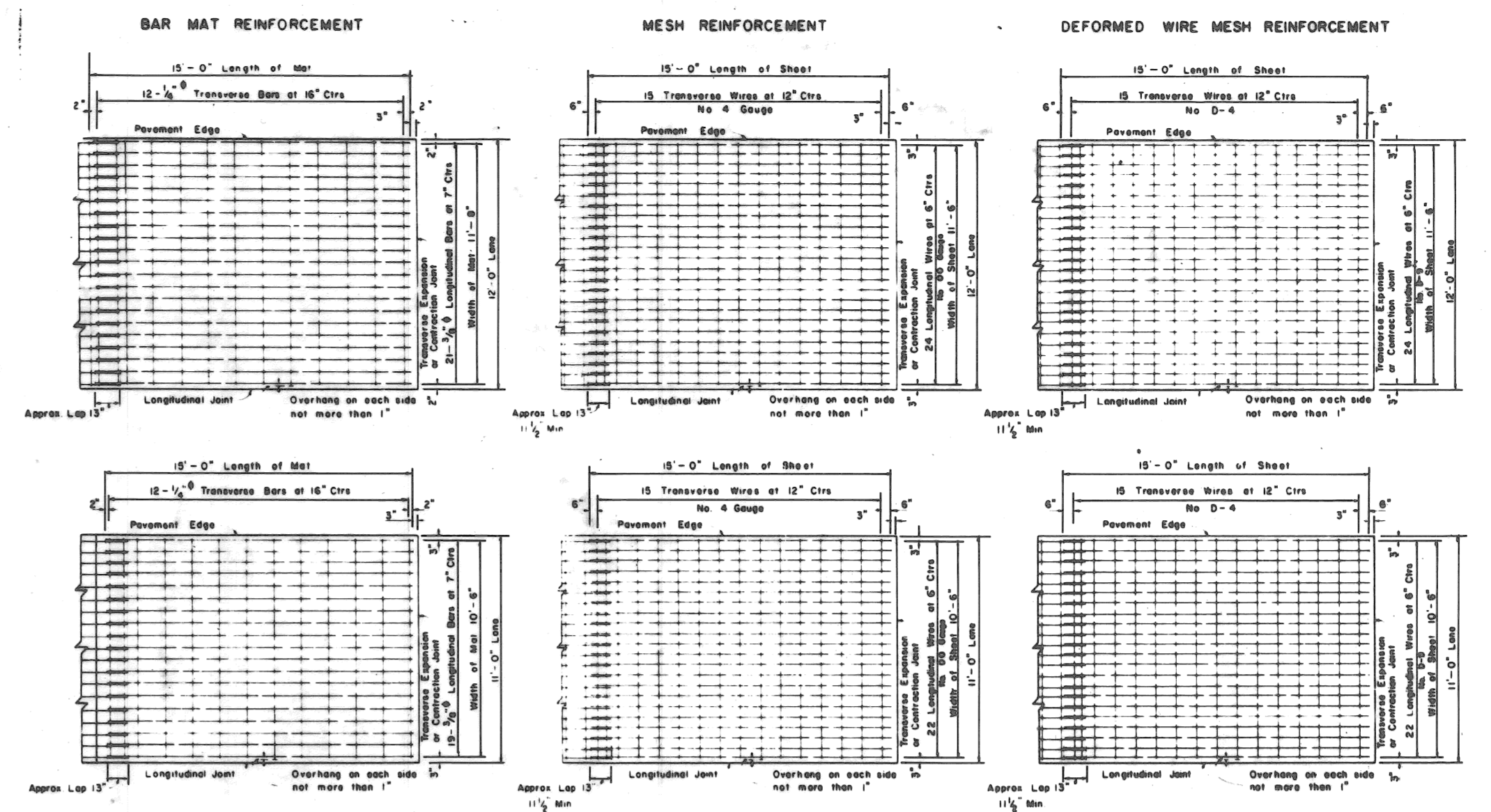
ASSIG. No. A0.2091

DATE 5-18-75

C-5523



JOINT LEGEND FOR PAVEMENT JOINTS
 E 1" TRANSVERSE EXPANSION JOINT WITH LOAD TRANSFER DEVICE
 E 1" TRANSVERSE EXPANSION JOINT WITHOUT LOAD TRANSFER DEVICE
 D LONGITUDINAL LANE TIE JOINT
 C TRANSVERSE CONTRACTION JOINT FOR CONCRETE PAVEMENT
 F LONGITUDINAL BULKHEAD CONSTRUCTION JOINT
 U LONGITUDINAL BULKHEAD CONSTRUCTION JOINT FOR FUTURE PAVEMENT WIDENING
 L TRANSVERSE PLANE AT WEAKNESS JOINT FOR CONCRETE BASE COURSE
 L LONGITUDINAL BULKHEAD CONSTRUCTION JOINT FOR WIDENING EXISTING CONCRETE PAVEMENT JOINT DOWEL HOOK BOLTS HAVE PREVIOUSLY BEEN PROVIDED
 BD OPTIONAL B OR D JOINT
 FOR JOINT DETAILS SEE DRAWING C-4943



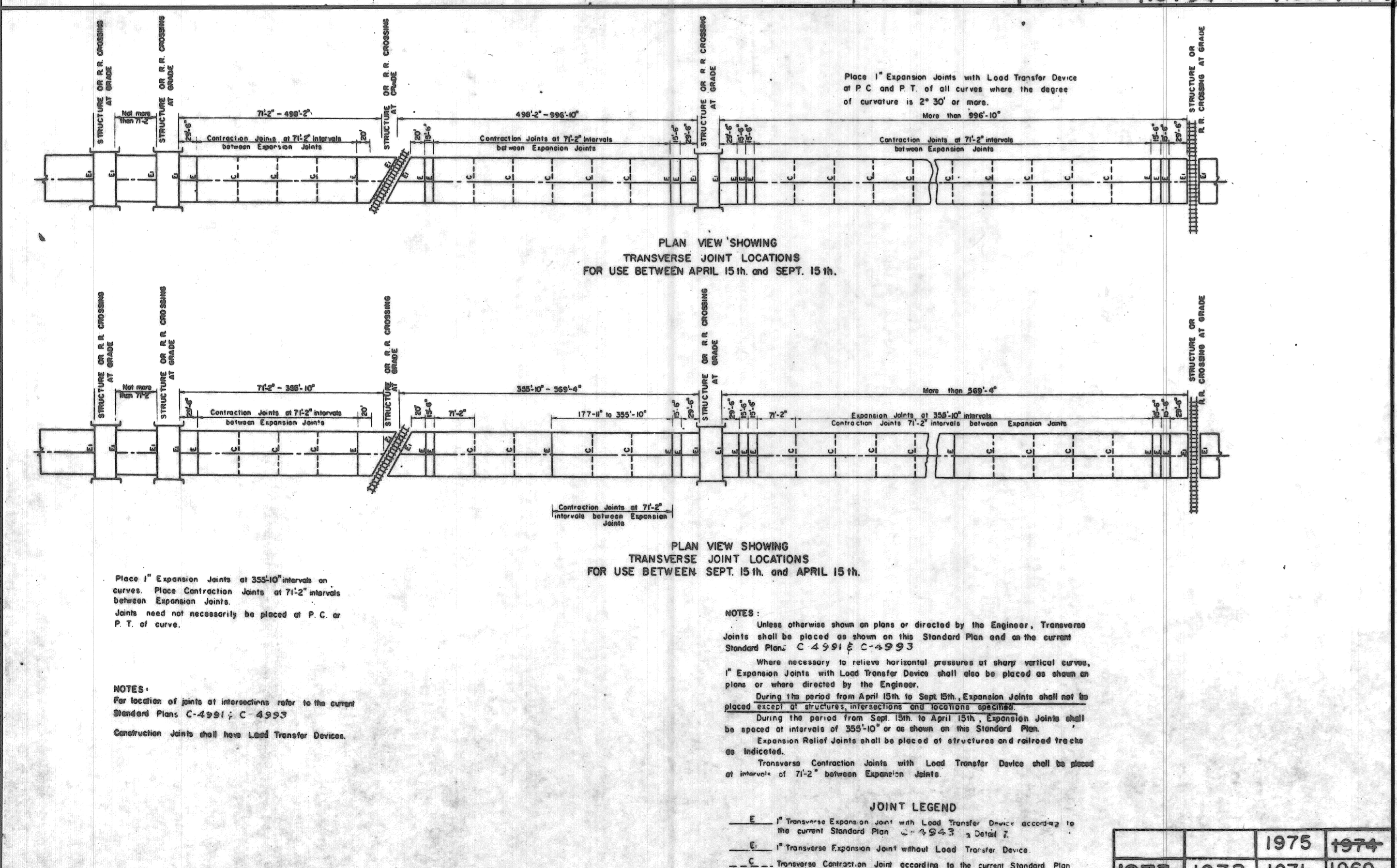
GENERAL NOTES

Where the joint width of pavement slab is other than shown, the reinforcement requirements shall be the same as shown on this standard plan. Special sheets of the required width may be used or standard sheets may be cut to the required size or joint sheets may be added to standard sheets to obtain the required size. Side laps shall be not less than the spacing of longitudinal wires for wire mesh or deformed wire, or of longitudinal bar for bar mat.
 Size of wire is based on U.S. Steel Wire Gauge and weight for Mesh and Deformed Wire Reinforcement is according to the Wire Reinforcement Institute Tables.

Type Of Reinforcement	COMPUTED WEIGHTS OF STEEL			
	Average Weight per 100 Sq. Ft. Of Pavement (lb./sq. ft.)	Average Weight per Sq. Yd. Of Pavement (lb./sq. yd.)	Weight per Standard Sheet (lb./sheet)	Weight per Standard Sheet (lb./sheet)
DEFORMED WIRE	78.4	78.4	7.1	122.7
MESH	75.4	76.5	6.8	118.1
BAR MAT	82.1	83.2	7.4	128.3

DESIGNED BY <i>Johnson</i>	APPROVED <i>Prichard</i> ENGINEER OF STREETS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN DETAIL NO. 26	BOOK NO.	SCALE	DRG. NO.
DRAWN BY <i>H. H. Hecks</i>	CITY ENGINEER		1975	1/9-68	C-4993
TRACED BY <i>W. Kawas</i>	CITY ENGINEER				
DESCRIPTION	REV. NO.	DATE	DATE	DATE	DATE

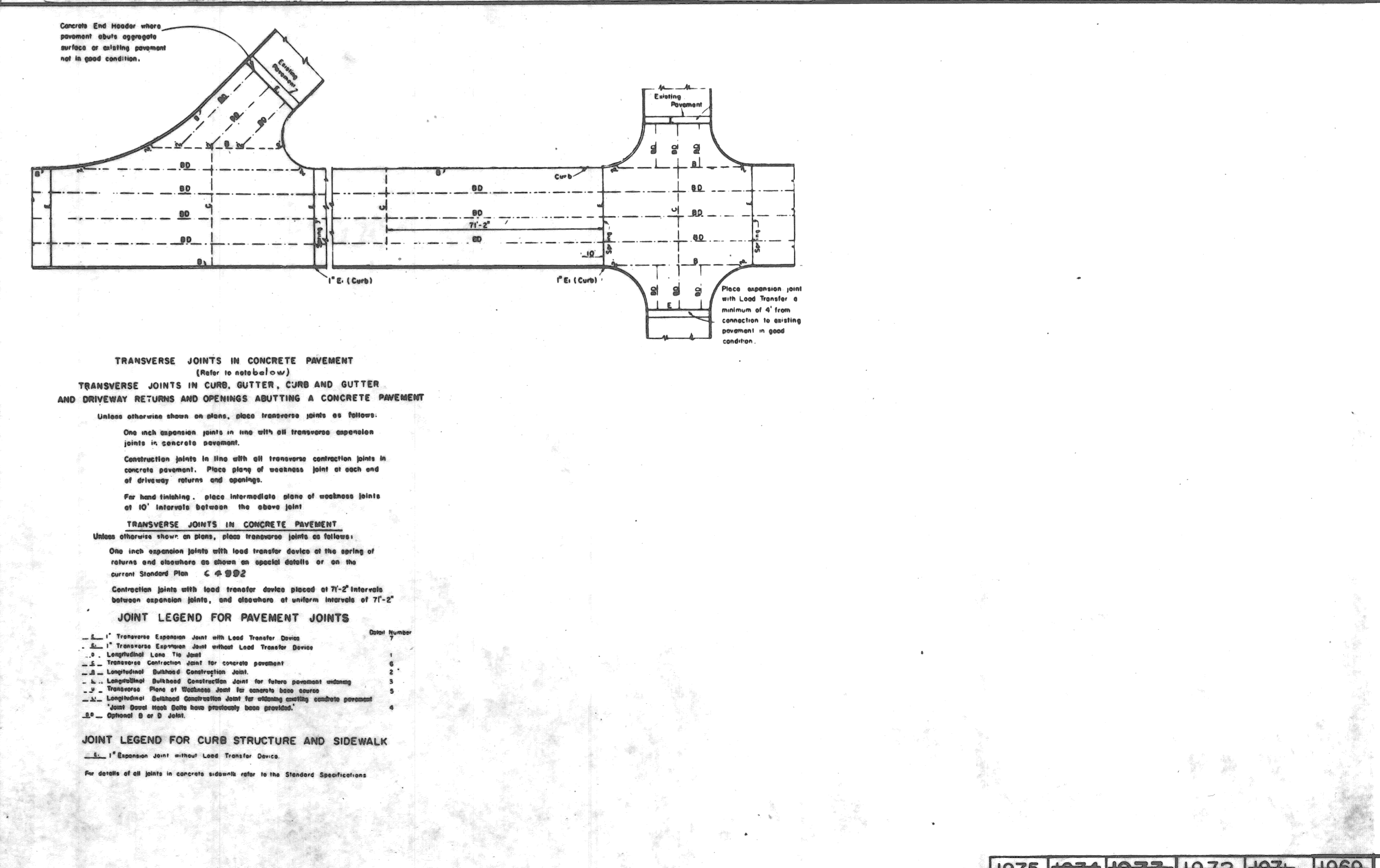
DESIGNED BY <i>Johnson</i>	APPROVED <i>Prichard</i> ENGINEER OF STREETS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN DETAIL NO. 23	BOOK NO.	SCALE	DRG. NO.
DRAWN BY <i>H. H. Hecks</i>	ASST. CITY ENGINEER		1975	4-2-66	C-4942
TRACED BY <i>W. Kawas</i>	CITY ENGINEER				
DESCRIPTION	REV. NO.	DATE	DATE	DATE	DATE



NOTES
 Unless otherwise shown on plans or directed by the Engineer, Transverse Joints shall be placed as shown on this Standard Plan and on the current Standard Plan C-4991 & C-4993.
 Where necessary to relieve horizontal pressure at sharp vertical curves, Expansion Joints with Load Transfer Devices shall also be placed as shown on plans or where directed by the Engineer.
 During the period from April 15th to Sept. 15th, Expansion Joints shall not be placed except at structures, intersections and sections as noted.
 During the period from Sept. 15th to April 15th, Expansion Joints shall be spaced at intervals of 335'-0" or as shown on the Standard Plan.
 Expansion Relief Joints shall be placed at structures and railroad tracks as indicated.
 Transverse Contraction Joints with Load Transfer Devices shall be placed at intervals of 71'-2" between Expansion Joints.

JOINT LEGEND
 E 1" Transverse Expansion Joint with Load Transfer Device according to the current Standard Plan C-4991 & C-4993
 E 1" Transverse Expansion Joint without Load Transfer Device
 C Transverse Contraction Joint according to the current Standard Plan C-4943, Detail 6

DESIGNED BY <i>Johnson</i>	APPROVED <i>Prichard</i> ENGINEER OF STREETS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN DETAIL NO. 28	BOOK NO.	SCALE	DRG. NO.
DRAWN BY <i>H. H. Hecks</i>	ASST. CITY ENGINEER		1975	3-66	C-4992
TRACED BY <i>W. Kawas</i>	CITY ENGINEER				
DESCRIPTION	REV. NO.	DATE	DATE	DATE	DATE



TRANSVERSE JOINTS IN CONCRETE PAVEMENT
 (Refer to standard plan)
 TRANSVERSE JOINTS IN CURB, GUTTER, CURB AND GUTTER AND DRIVEWAY RETURNS AND OPENINGS ADJUTING A CONCRETE PAVEMENT
 Unless otherwise shown on plans, place transverse joints as follows:
 One each expansion joint in line with all transverse expansion joints in concrete pavement.
 Construction joints in line with all transverse contraction joints in concrete pavement. Place along of weakness joint at each end of driveway returns and openings.
 For hand finishing, place intermediate slabs of weakness joints at 10' intervals between the above joints.
TRANSVERSE JOINTS IN CONCRETE PAVEMENT
 Unless otherwise shown on plans, place transverse joints as follows:
 One inch expansion joints with load transfer devices at the center of returns and elsewhere as shown on special details or on the current Standard Plan C-4992.
 Contraction joints with load transfer devices placed at 71'-2" intervals between expansion joints, and elsewhere of uniform intervals of 71'-2".

JOINT LEGEND FOR PAVEMENT JOINTS
 E 1" Transverse Expansion Joint with Load Transfer Device
 E 1" Transverse Expansion Joint without Load Transfer Device
 C Transverse Contraction Joint for concrete pavement
 F Longitudinal Bulkhead Construction Joint for future pavement widening
 U Longitudinal Bulkhead Construction Joint for widening existing concrete pavement
 L Transverse Plane at Weakness Joint for concrete base course
 L Longitudinal Bulkhead Construction Joint for widening existing concrete pavement
 BD Optional B or D Joint

JOINT LEGEND FOR CURB STRUCTURE AND SIDEWALK
 E 1" Expansion Joint without Load Transfer Device
 For details of joints in concrete structures refer to the Standard Specifications.

DESIGNED BY <i>Johnson</i>	APPROVED <i>Prichard</i> ENGINEER OF STREETS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN DETAIL NO. 27	BOOK NO.	SCALE	DRG. NO.
DRAWN BY <i>H. H. Hecks</i>	ASST. CITY ENGINEER		1975	1-13-66	C-4991
TRACED BY <i>W. Kawas</i>	CITY ENGINEER				
DESCRIPTION	REV. NO.	DATE	DATE	DATE	DATE

14E 59
SHEET OF SHEETS
CONTRACT NO. M 2000 (017)
ASSIGN NO. A.O. 2091
DATE 5-18-75

C-5523

TEMPORARY BARRICADE-TYPE No. 1
Scale: 1" = 4'-0"

TEMPORARY BARRICADE-TYPE No. 2
Scale: 1" = 4'-0"

TYPICAL CROSS-SECTION TIMBER AND SNOWFENCE BARRICADE
Scale: 1" = 1'-0"

TYPICAL BARRICADE UNITS
Scale: 6" = 1'-0"

DETAIL NO. 19
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF DESIGN

PORTABLE BARRICADES
DWG. NO. C-4552
(REV. JAN. 25, 1961)

DESIGNED BY	APPROVED
DRAWN BY	ENGINEER OF STREETS
TRACED BY	
CHECKED BY	

LEGEND

- SIDEWALK
- SIDEWALK RAMP TYPE 1 & 2
- SIDEWALK RAMP TYPE 3
- PREFERRED LOCATION OF DRAINAGE INLET TYPICAL
- ALTERNATE LOCATION OF DRAINAGE INLET TYPICAL
- CROSSWALK MARKING
- STOP LINE MARKING

ARTERIAL ALL RAMP SHOWN ARE TYPE 1

RESIDENTIAL ALL RAMP SHOWN ARE TYPE 2

NO TRAFFIC SIGNAL HEAVY TRAFFIC ON ARTERIAL

SIGNALIZED INTERSECTION TYPICAL RAMP TREATMENTS

TRAFFIC CONTROL ON BOTH STREETS WIDE SIDEWALKS

SIDEWALK RAMP TYPE 1

SIDEWALK RAMP TYPE 2

SIDEWALK RAMP TYPE 3

NOTES:

DETAILS SHOWN ON THIS PLAN APPLY TO ALL CONSTRUCTION ON RECONSTRUCTION OF STREETS, CURBS OR SIDEWALKS BY ALL PUBLIC AGENCIES AND BY ALL PRIVATE ORGANIZATIONS.

RAMP CURB RAMP ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF STREET INTERSECTIONS WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB RAMP SHALL BE PROVIDED AT ALL CORNERS AT ALL INTERSECTIONS IN THE VICINITY OF HIGHWAYS, MEDICAL CENTERS AND ATHLETIC STADIUMS.

SHARP CURVES OF THE RAMP SHALL BE THAT DETERMINED BY A CURVE BREAKING TRANSITION TO THE CURVE OF THE RAMP.

SIDEWALK SHALL BE FINISHED WHERE THE DRAINAGE CURB IS EXTENDED ACROSS THE RAMP.

CURE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE TO BE HAD AND SLOPE CHANGES.

IF AT ALL THE DRAINAGE CURB SHALL NOT BE PLACED IN LINE WITH THE RAMP, EXCEPT WHERE EXISTING CURB IS TO REMAIN BEING RELOCATED IN THE NEW CONSTRUCTION, LOCATION OF ALL RAMP SHALL BE PRECEDENCE TO LOCATION OF DRAINAGE STREET.

THE DRAINAGE RAMP TYPE 3 SHALL BE RESTRICTED TO LOCATIONS WHERE IT IS NOT FEASIBLE TO USE TYPE 1 OR 2.

THE RAMP, EITHER THE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.

GRADE ON EACH SIDE OF THE RAMP SHALL BE A MINIMUM 1/2" BELOW THE GRADE OF THE EXISTING SIDEWALK. RAMP TYPES SHALL BE FINISH WITH ACCELERATED CONCRETE.

CROSSWALK AND STOP LINE MARKINGS TO BE LOCATED AS SHOWN ON THIS PLAN. SPECIFIC DETAILS FOR MARKING AND STOP LINE SHALL BE THE DISCRETION OF THE LOCAL TRAFFIC CONTROL DEPARTMENT.

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAU OF STREETS AND HIGHWAYS

DETAIL STANDARD No. 34

STATE OF MICHIGAN
DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
STANDARD PLAN FOR

SIDEWALK RAMP DETAILS

AS PROVIDED BY ACT 8 PUBLIC ACTS OF 1913

CHECKED	APPROVED	DATE
FOR APPROVAL	SECTION 1	4-29-74
FOR APPROVAL	ENGINEER OF DESIGN	4-29-74
FOR APPROVAL	ENGINEER OF TRAFFIC AND SAFETY	4-26-74
FOR APPROVAL	ENGINEER OF CONSTRUCTION	4/26/74

DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
TOM H. HOSFORD - DIRECTOR

BY: *James R. Kelly* 4/27/74
DEPUTY DIRECTOR - TRAFFIC

DATE: 4/27/74

DRWN: H.A.W. BY: Y.R. REVISED: H.A.W. DATE: 4-17-74
APPROVE: J.L.M. DATE: 4-17-74

II-28F

SECTION A-A

LOCATION PLAN

PLAN

DETAIL "A"

NOTES:

USE 3/4" DIA. BOLT WITH FLATE WASHER TO ATTACH SECTION TO BARREL.

BEAM SUPPORTS SHALL BE 55 GALLON SALVAGED BARRELS PAINTED HIGHWAY YELLOW (NON-REFLECTORIZED) AND PROVIDED WITH DRAIN HOLES.

FACE OF GUARD RAIL SHALL BE PARTIALLY REFLECTORIZED WITH WHITE OR SILVER BEADED SHEET MATERIAL COVERING 25% OF SURFACE AREA PLACED IN THE FORM OF HORIZONTAL (1 1/2"-2" WIDTH) OR VERTICAL (2"-6" WIDTH) STRIPES. REMAINING PORTION SHALL BE PAINTED WHITE.

FOR DETAILS OF BEAM SECTIONS SEE STANDARD DWG. NO. C-4585 ON "STEEL BEAM GUARD RAIL."

DESIGNED BY L.P. KING
APPROVED ENGINEER OF STREETS
DRAWN BY JONES
TRACED BY DEPUTY DIRECTOR
CHECKED BY CITY ENGINEER

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF DESIGN
DETAIL NO. 21

SINGLE AND DOUBLE BEAM BARREL BARRICADE

BOOK NO. _____ SCALE _____
PAGE NO. _____ DATE 5-18-63 DRG. NO. C-4729

1975 1974 1973 1972 1971 1970 1969 1968 1967 1966

SECTION A-A

LOCATION PLAN

PLAN

DETAIL "A"

NOTE:

MOWER RAMPS TO BE LOCATED AT ISLAND TURNAROUNDS, OTHERWISE AS SHOWN ON THE PLANS. EXACT LOCATION WILL VARY.

DESIGNED BY JONES
APPROVED ENGINEER OF STREETS
DRAWN BY DEPUTY DIRECTOR
TRACED BY CITY ENGINEER
CHECKED BY CITY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

SPECIAL MOWER RAMP

BOOK NO. _____ SCALE NONE
PAGE NO. _____ DATE JULY 22, 1974 DRG. NO. C-5239

1975

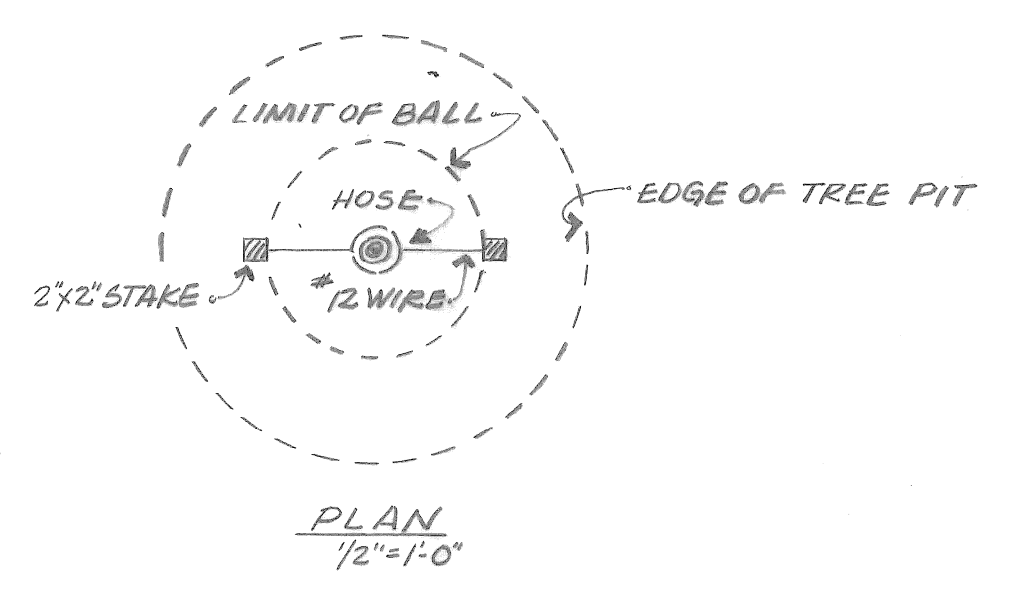
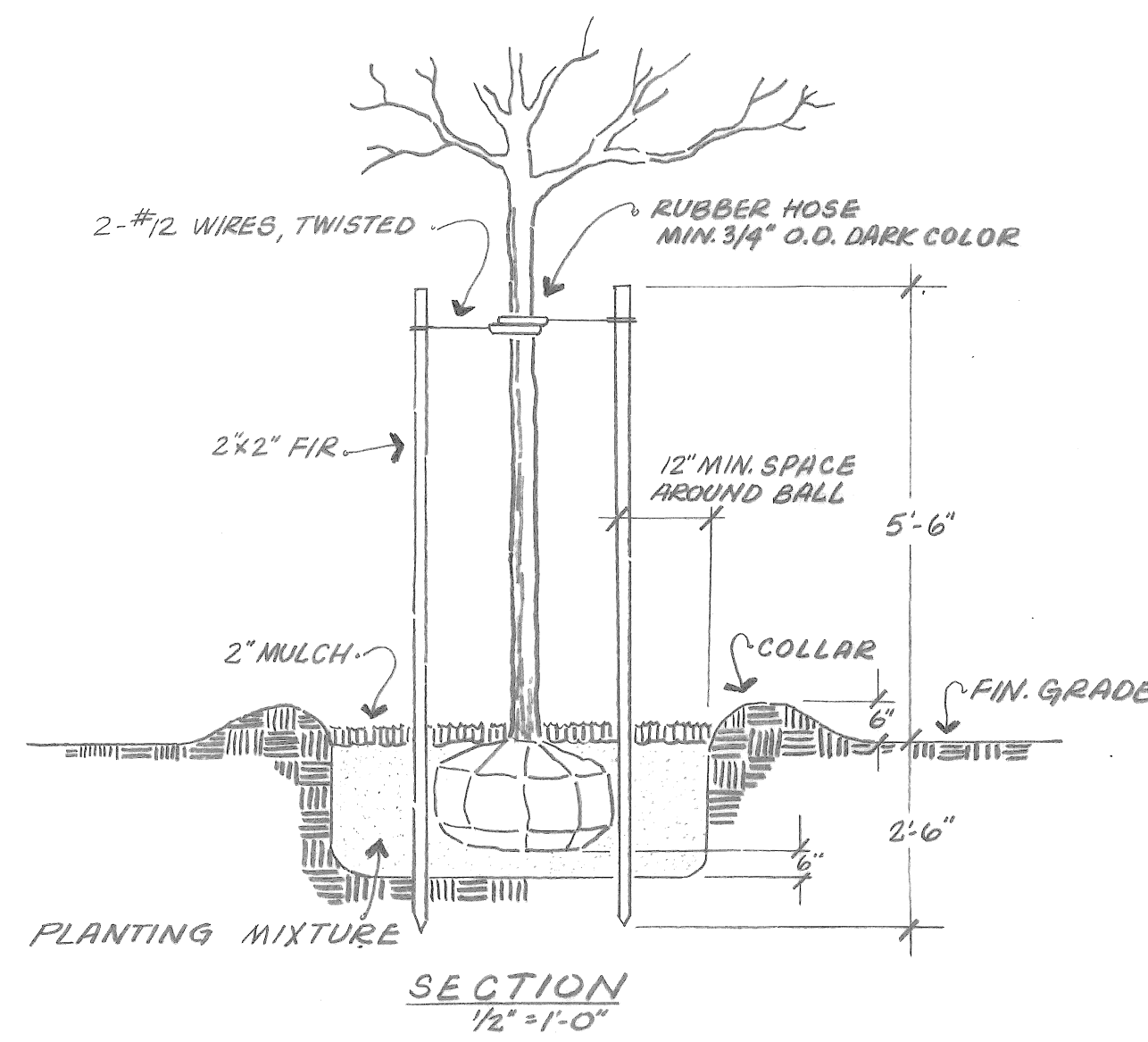
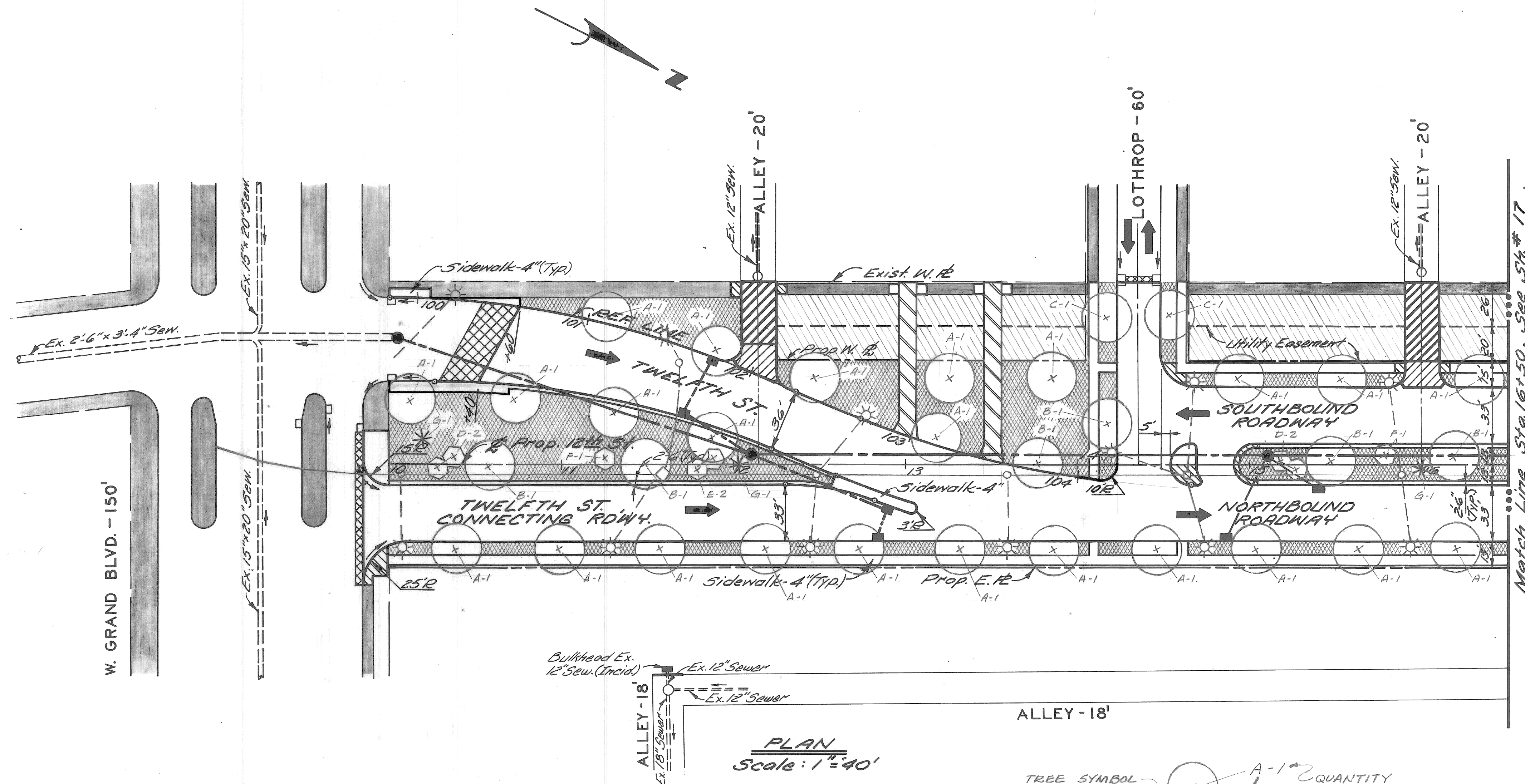
14F 59
SHEET OF SHEETS

CONTRACT No. M 2000 (017)
ASSIGN. A.O. 2091
DATE 5-18-75

11 C-5523

P.B.M. #31-251B Elev. 151.069 N.E.
Corner W. Grand Blvd. & Twelfth St.

C.B.M. Elev. 155.32 Arrow on Hydrant
S.W. Corner Twelfth St & Lothrop.



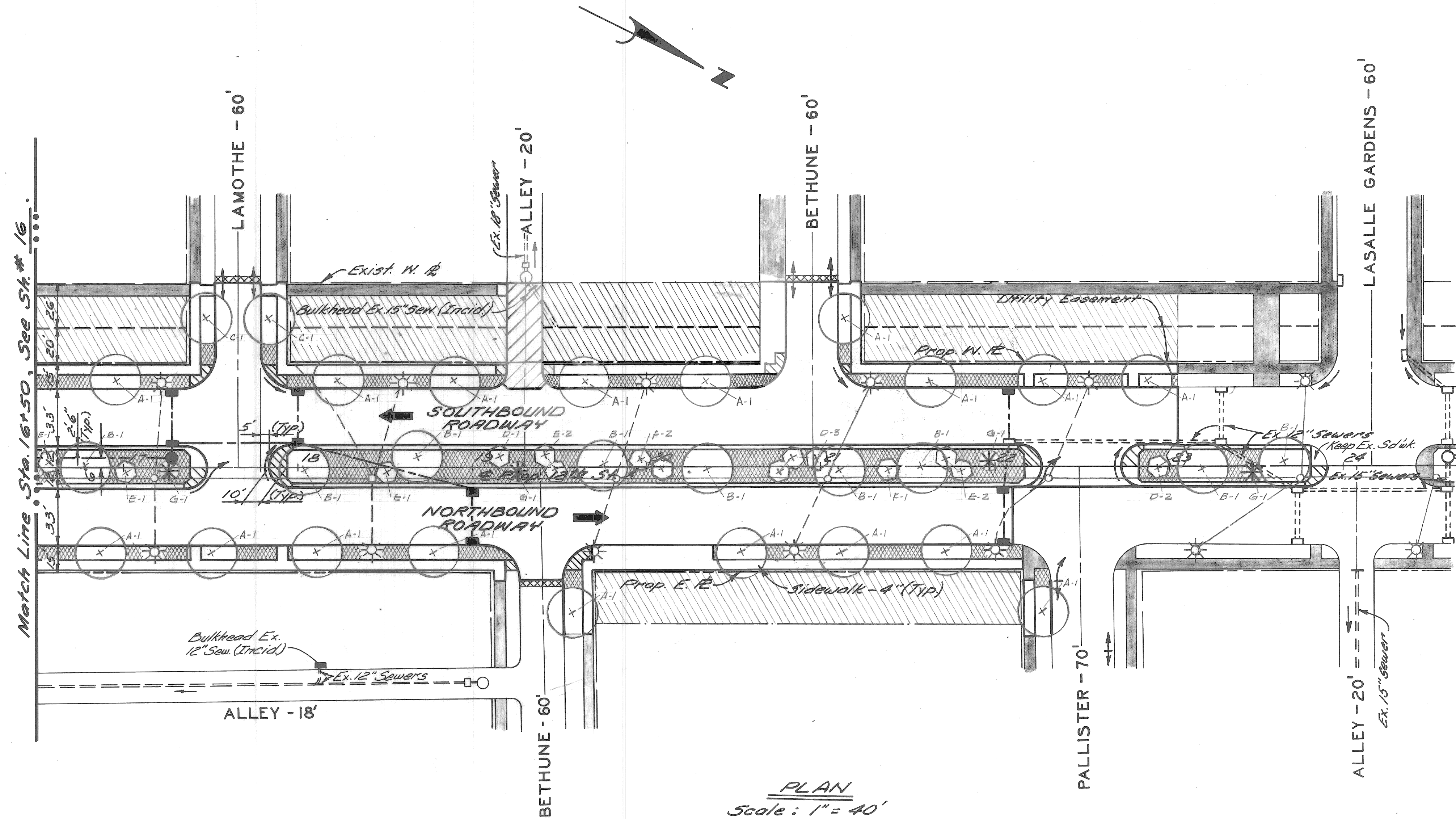
- NOTES:**
- All proposed street return radii are 20' unless otherwise noted.
 - For utility adjustments or reconstructions, See Sht. #13.
 - For Alignment, See Sht. # 4.

<table border="1"> <tr> <td>COORD.</td> <td>DESCRIPTION</td> <td>DRW.</td> <td>CHKD.</td> <td>APVD.</td> <td>DATE</td> </tr> <tr> <td></td> <td>REVISIONS LOCATED BY COORDINATES ON SHEET</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	COORD.	DESCRIPTION	DRW.	CHKD.	APVD.	DATE		REVISIONS LOCATED BY COORDINATES ON SHEET					<table border="1"> <tr> <td>REFERENCE DRAWINGS</td> <td>DESIGNED BY WGB</td> <td>APPROVED:</td> </tr> <tr> <td></td> <td>DRAWN BY</td> <td>ENGINEER OF EXPRESSWAYS</td> </tr> <tr> <td></td> <td>TRACED BY</td> <td></td> </tr> <tr> <td></td> <td>CHECKED BY E.H. VIALI</td> <td></td> </tr> </table>	REFERENCE DRAWINGS	DESIGNED BY WGB	APPROVED:		DRAWN BY	ENGINEER OF EXPRESSWAYS		TRACED BY			CHECKED BY E.H. VIALI		<p align="center">CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR COMMUNITY DEVELOPMENT COMMISSION</p>	<p align="center">TWELFTH STREET WIDENING WEST GRAND BLVD. TO ATKINSON PLAN, LANDSCAPE CONSTRUCTION</p>	<table border="1"> <tr> <td>SHEET 16 OF 59 SHEETS</td> </tr> <tr> <td>CONTRACT No. M 2000(017)</td> </tr> <tr> <td>ASSIGNMENT No. A.O. 2091</td> </tr> <tr> <td>DATE 5-18-75</td> </tr> </table>	SHEET 16 OF 59 SHEETS	CONTRACT No. M 2000(017)	ASSIGNMENT No. A.O. 2091	DATE 5-18-75
COORD.	DESCRIPTION	DRW.	CHKD.	APVD.	DATE																											
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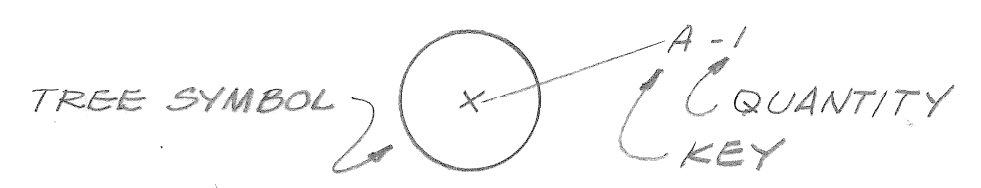
C.B.M. Elev. 155.00 Arrow on Hydrant
S.W. Corner Twelfth & LaMothe.

C.B.M. Elev. 156.26 Arrow on Hydrant
N.W. Corner Twelfth & Bethune.

C.B.M. Elev. 155.47 Arrow on Hydrant
S.W. Corner Twelfth & LaSalle Gardens.



PLAN
Scale: 1" = 40'



PLANT MATERIALS LEGEND

KEY	PLANT NAME
A	GREENSPIRE LINDEN
B	KENTUCKY COFFEE TREE
C	NORWAY MAPLE
D	JAPANESE FLOWERING CRABAPPLE
E	SCHIEDECKER CRABAPPLE
F	WASHINGTON HAWTHORNE
G	COLORADO SPRUCE

NOTES:

DESIGNED BY	WJB	APPROVED:	
DRAWN BY		ENGINEER OF EXPRESSWAYS	
TRACED BY			
CHECKED BY	E.H.VIALL		

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
FOR
COMMUNITY DEVELOPMENT COMMISSION

TWELFTH STREET WIDENING
WEST GRAND BLVD. TO ATKINSON
PLAN, LANDSCAPE CONSTRUCTION

SHEET 17 OF 59 SHEETS
CONTRACT No. M 2000 (017)
ASSIGNMENT No. A.O.2091
DATE 5-18-75

QUANTITY SHEET - E

ITEMS	AS PER PLANS													AS CONSTRUCTED												
	SHEET NO'S 5&6		7	8&9		10&11		13		16 & 17	52	2	SHEET NO'S 5&6		7	8&9		10&11		13		16 & 17	52	2		
	TOTALS	UNITS	CONSTRUCTION SEQUENCE	REMOVALS	PLAN AND PROFILES				UTILITIES	LANDSCAPING		WATER SYSTEM ALTERATIONS	GENERAL PLAN	TOTALS	UNITS	CONSTRUCTION SEQUENCE	REMOVALS	PLAN AND PROFILES				UTILITIES	LANDSCAPING		WATER SYSTEM ALTERATIONS	GENERAL PLAN
			W. GRAND BLDV TO LASALLE GARDENS	W. GRAND BLDV TO STA. 16+50	STA. 16+50 TO LASALLE GARDENS			W. GRAND BLDV TO LASALLE GARDENS								W. GRAND BLDV TO LASALLE GARDENS	W. GRAND BLDV TO STA. 16+50	STA. 16+50 TO LASALLE GARDENS								
Maintaining Traffic	Lump	Sum											Lump	Sum												
Lawn Watering System	Lump	Sum											Lump	Sum												
Manhole (Sewer) - Abandonment	3	Each												Each												
Catch Basin - Abandonment	11	Each												Each												
Sewer - 12" (C-76-III)	634	Lin.Ft.						355	279					Lin.Ft.												
Sewer - 15" (C-76-III)	108	Lin.Ft.							108					Lin.Ft.												
Sewer - 18" (C-76-III)	510	Lin.Ft.						434	76					Lin.Ft.												
Sewer - 21" (C-76-III)	160	Lin.Ft.						160						Lin.Ft.												
Catch Basin - Special Abandonment	1	Each												Each												
Sewer Under Pavement - 12" (C-76-III)	30	Lin.Ft.						30						Lin.Ft.												
Sewer Under Pavement - 21" (C-76-III)	66	Lin.Ft.						66						Lin.Ft.												
Catch Basin - Adjustment	2	Each						1	1					Each												
Catch Basin "A"	6	Each						4	2					Each												
Catch Basin "B"	5	Each							5					Each												
Catch Basin "B" with trap	5	Each						4	1					Each												
Catch Basin "B" with sump	2	Each							2					Each												
Manhole - Standard	1	Each							1					Each												
Manhole - Drop	2	Each						2						Each												
Fill (Grade A)	5308	Cu.Yds.						61	81					Cu.Yds.												
Fill (22A)	1261	Cu.Yds.						603	658					Cu.Yds.												
Excavation	15488	Cu.Yds.						3878	4690					Cu.Yds.												
Grading Abandoned Streets	2923	Sq.Yds.						1638	1285					Sq.Yds.												
Grading Abandoned Alleys	234	Sq.Yds.						124	110					Sq.Yds.												
Tree Removal (4" thru 12")	3	Each												Each												
Tree Removal (13" thru 24")	2	Each												Each												
Tree Removal (25" thru 36")	1	Each												Each												
Tree Removal (37" and over)	1	Each												Each												
Street Pavement Removal - Unreinforced	5188	Sq.Yds.												Sq.Yds.												
Alley Pavement Removal	794	Sq.Yds.												Sq.Yds.												
Separate Type Curb Removal - Unreinforced	128	Lin.Ft.												Lin.Ft.												
Sidewalk Removal	10969	Sq.Ft.												Sq.Ft.												
Driveway Removal	3389	Sq.Ft.												Sq.Ft.												
Streetcar Rail Removal	4400	Lin.Ft.												Lin.Ft.												
Streetcar Track Base Removal	2078	Sq.Yds.												Sq.Yds.												
Non-Reinforced Concrete Removal	141	Cu.Yds.												Cu.Yds.												
Conc. Pavt. - 9" Unif. (Reinf.) with type III Curb-Integral (Reinf.)	10,259	Sq.Yds.						4888	5371					Sq.Yds.												
Conc. Pavt. - 9" Unif. (Non-Reinf.)	115	Sq.Yds.						79	36					Sq.Yds.												
Conc. Pavt. - 8" Unif. (Non-Reinf.)	289	Sq.Yds.						187	102					Sq.Yds.												
Test Ceres	10	Each												Each												
Strip and Adjust Asphalt Surface	196	Sq.Yds.						163	27					Sq.Yds.												
Type I Curb - Separate (Unreinforced)	116	Lin.Ft.						52	64					Lin.Ft.												
Type II Curb - Separate (Modified) Unreinforced	111	Lin.Ft.							111					Lin.Ft.												
Sidewalk - 4"	20810	Sq.Ft.						8760	12050					Sq.Ft.												
Sidewalk - 6"	1619	Sq.Ft.						760	859					Sq.Ft.												
Driveway - 6"	1974	Sq.Ft.						1974						Sq.Ft.												
Driveway - 8"	2562	Sq.Ft.							2562					Sq.Ft.												
Sidewalk Ramp - 4"	2	Each						2						Each												
Sidewalk Ramp - 6"	10	Each						4	6					Each												
Stopbox - Adjustment	2	Each												Each												
Manhole (Water) - Reconstruct Core	1	Each												Each												
Manhole (Water) - Adjustment	2	Each												Each												
On The Job Training	2	Each						2						Each												
Fine Grading	10320	Sq.Yds.												Sq.Yds.												
Topsoil	1620	Cu.Yds.												Cu.Yds.												
Sodding	5685	Sq.Yds.												Sq.Yds.												
Seeding	4625	Sq.Yds.												Sq.Yds.												
Trees - Tilia Cordata Greenspire - Greenspire Linden	42	Each												Each												
Trees - Gynmrolledus Dracois Kentucky Coffee Tree	15	Each												Each												
Trees - Acer Platanoides - Norway Maple	4	Each												Each												
Trees - Malus Floribunda Japanese Flowering Crabapple	10	Each												Each												
Trees - Malus Schindleriana - Schindleriana Crabapple	9	Each												Each												
Trees - Crataegus Phaeopyrum - Washington Hawthorn	5	Each												Each												
Trees - Picea Fungans - Colorado Spruce	7	Each												Each												
8-Inch Water Main (Non Federal Participation)	1389	Lin.Ft.												Lin.Ft.												
8-Inch Gate Valve (Non Federal Participation)	3	Each												Each												
8-Inch Gate Valve Wall (Non Federal Participation)	3	Each												Each												
6-Inch Fire Hydrant (Including Gate, Gate Box, & Piping)	7	Each												Each												

ROADWAY ITEMS

LANDSCAPE DEVELOP ITEMS