

CITY OF DETROIT CITY ENGINEERING DEPARTMENT

IN CO-OPERATION WITH

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

AND

FEDERAL HIGHWAY ADMINISTRATION

PLAN AND PROFILE OF PROPOSED

FEDERAL AID URBAN PROJECT NO. MICHIGAN M2000 (047) - ITEM 268
M2000 (048) - ITEM 269
CONTROL SECTION MU 82400 - JOB NO'S 08690A & 08822A

B.P.R. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
STREET	CITY	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS
	DETROIT	WAYNE		1	49

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

TRAFFIC COUNT

	CURRENT (2-WAY)	1990 (2-WAY)
SEVEN MILE AT HOOVER	ADT ---- 23000 DHV ---- 2400	45000 5000
SEVEN MILE AT SCHOENHERR	ADT ---- 20000 DHV ---- 2000	45000 5000

M2000(047) - JOB NO 08822A
M2000(048) - JOB NO 08690A

INDEX OF SHEETS

- 1 TITLE SHEET
- 2-3 TYPICAL CROSS SECTIONS
- 4-5 ALIGNMENTS
- 6-7 REMOVALS
- 8-11 PLANS AND PROFILES
- 12-15 DETAILED GRADES
- 16-17 UTILITIES
- 18-19 FIRE HYDRANT DETAILS
- 20-22 SPECIAL DETAILS AND STANDARDS
- 23 QUANTITIES (ROADWAY)
- 24 PLD LEGEND
- 25 PLD GENERAL INFORMATION
- 26-27 PLD GENERAL PLANS
- 28-29 PLD WIRING DIAGRAMS
- 30-32 TRAFFIC SIGNALS
- 33-48 PLD DETAILS
- 49 QUANTITIES (PLD)

STANDARD PLANS

- II - 28F
- II - 39C
- II - 40A
- II - 42A
- IV - 84B
- VI - 124B
- VI - 125C



CONTRACT FOR _____

LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
GOVERNMENTAL AGENCY

APPROVED BY W. R. [Signature] DEPUTY DIRECTOR 4/13/76 DATE

APPROVED BY H. T. [Signature] DIRECTOR 11.13.75 DATE

RECOMMENDED FOR APPROVAL

BY N. U. [Signature] F.A.U. ENGINEER 5/3/76 DATE

PLANS CHECKED BY Leigh A. Chyck 5/3/76 DATE

DEPARTMENT OF STATE HIGHWAYS APPROVAL
APPROVED FOR COMMISSION

BY Agnes [Signature] DEPUTY DIRECTOR - HIGHWAYS 5/3/76 DATE

PREPARED UNDER SUPERVISION OF

Allen E. Prager REGISTERED PROFESSIONAL ENGINEER 9261 REGISTRATION NO.

CITY OF DETROIT
ORGANIZATION

DETROIT MICHIGAN
ADDRESS

(SEAL)

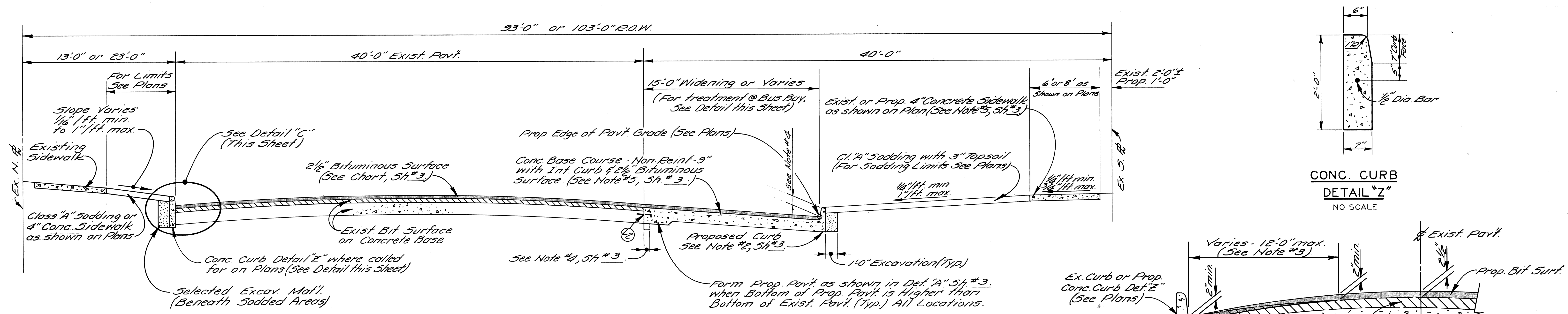
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____

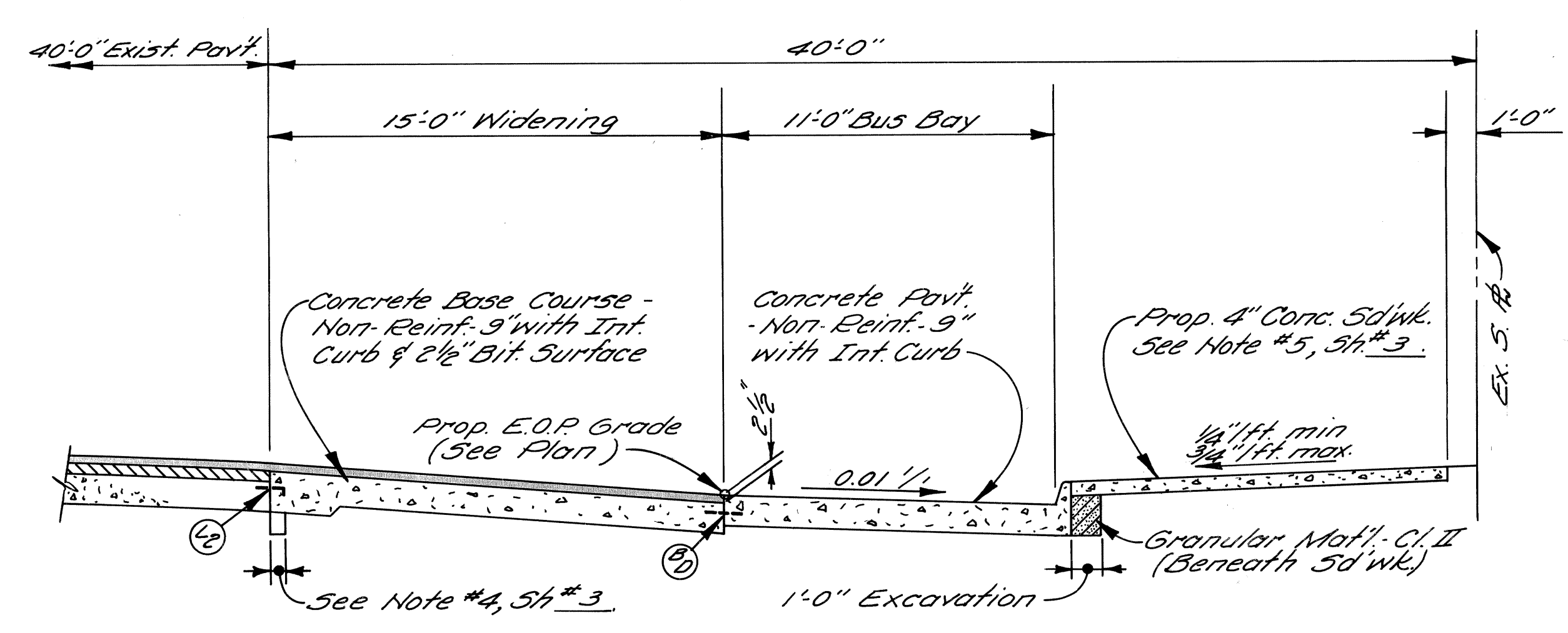
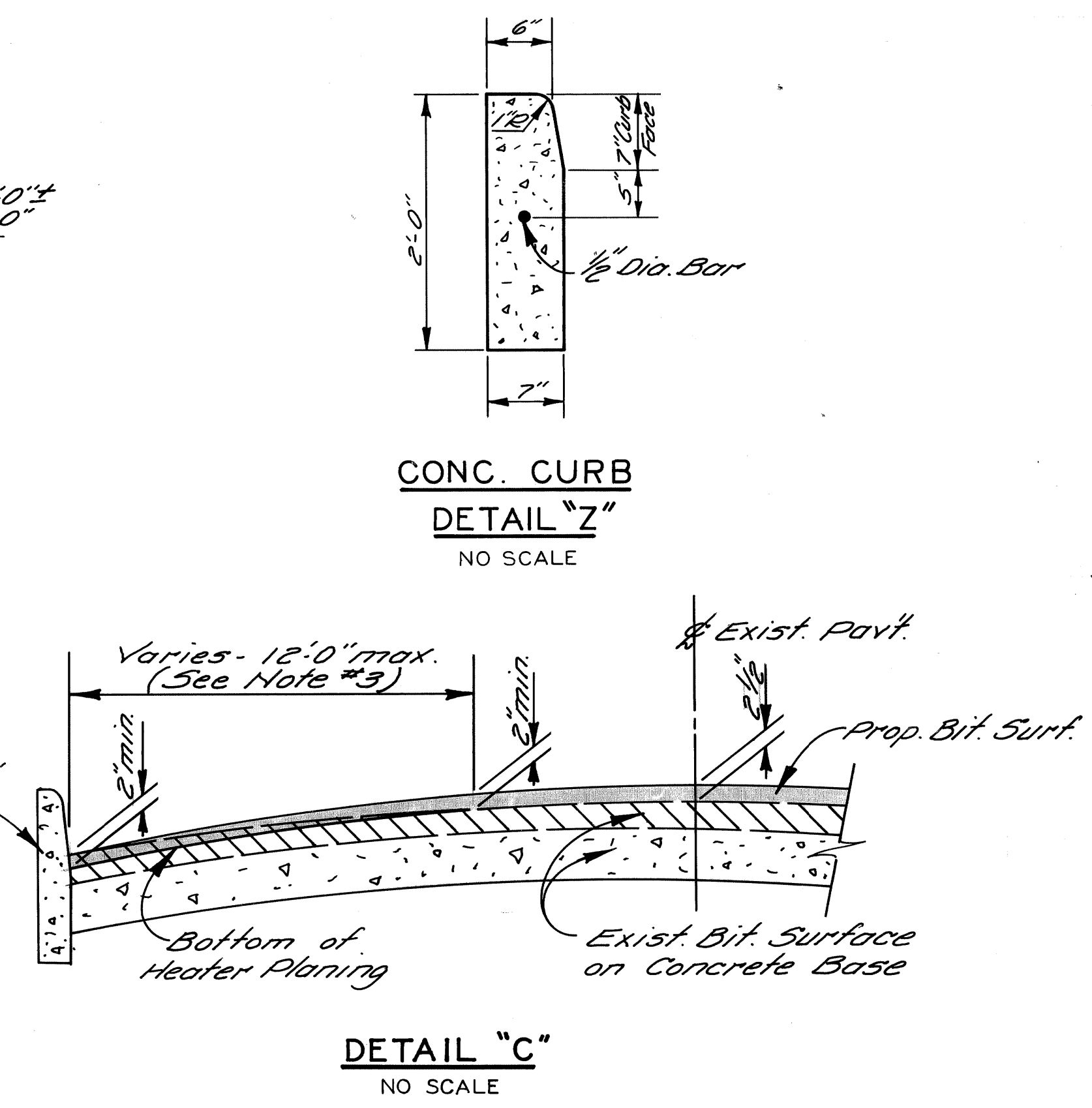
DISTRICT ENGINEER

M 2000 (047) & M 2000 (048)

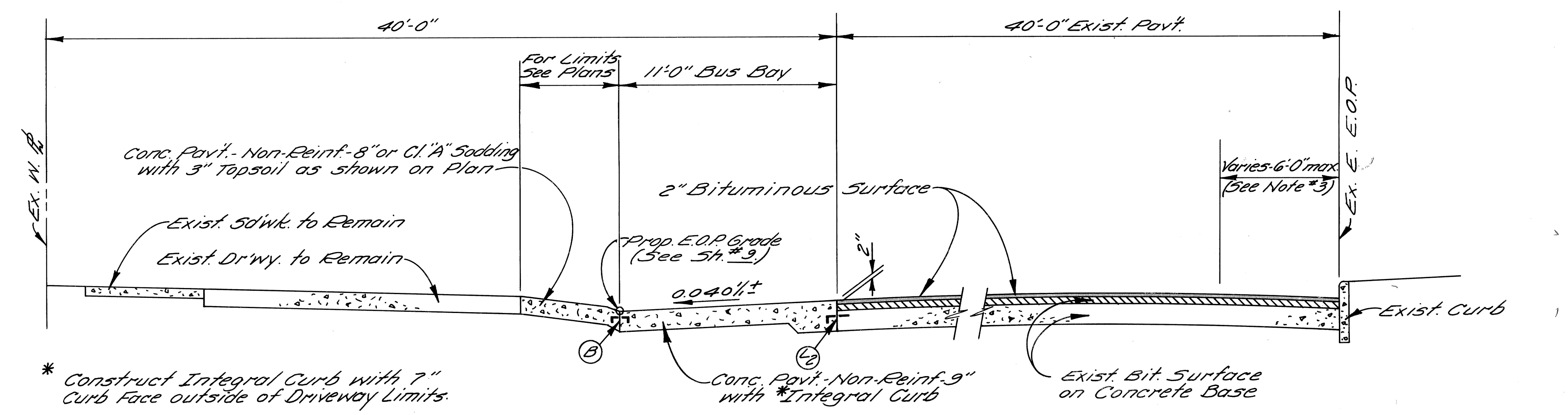
FILE NO.	STATE	FEDERAL	FEDERAL
NO. 330	PROJECT	PROJECT	SHEET
STENCIL			NO.



SEVEN MILE ROAD
TYPICAL WIDENING AND RESURFACING
 RUNYON AVE. TO DRESDEN AVE.
 NO SCALE



BUS BAY
 S. SIDE OF SEVEN MILE RD. NEAR ANNOTT AVE.
 AND
 S. SIDE OF SEVEN MILE RD. E. OF HOOVER AVE.
 NO SCALE



BUS BAY & RESURFACING
 HOOVER AVE. S. OF SEVEN MILE RD.
 NO SCALE

Miscellaneous Quantities 7 Mile-Hoover	
Maintaining Traffic	Lump Sum
Type II Barricade (Drums) Lighted	142 Each
Type III Barricade	1 Each
Drum Guide Rail	475 Lin. Ft.

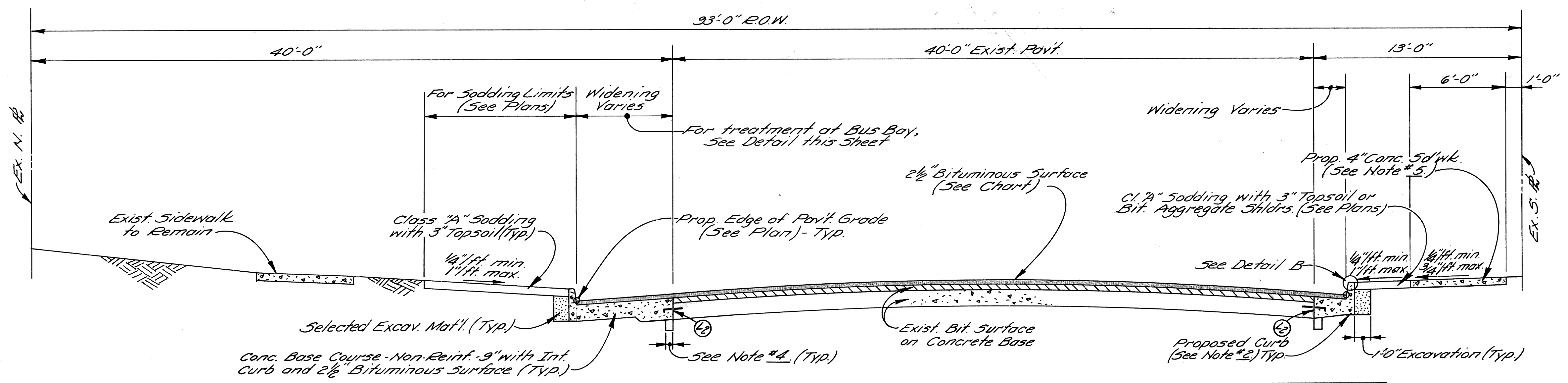
The following Quantities are estimated for use throughout 7 Mile-Hoover at the Discretion of the Engineer.	
4" Concrete Sidewalk	1100 Sq. Ft.
Removing Sidewalk	120 Sq. Yds.
Subgrade Undercutting Type II	250 Cu. Yds.
Class "A" Sodding	270 Sq. Yds.
Topsoil Surface (L.M.)	30 Cu. Yds.
Wafer	0.8 Units
Bituminous Aggregate Shoulders	4 Tons

Miscellaneous Quantities 7 Mile - Hoover	
Field Laboratory, Concrete Proportioning	1 Each

GENERAL NOTES

1. For Earthwork Legend, See 5th. No. 3.
2. For Joint Legend, See 5th. No. 3.
3. Heater Plane as necessary prior to placing 2" bituminous surface at pavement edge in order to maintain 5" curb face (4" min curb face on Hoover) Stripping Bituminous Surface may be used as an alternate method.
4. Construct 6" Curb Face between Runyon and Albion. Construct 7" Curb Face between Albion and Dresden.
5. For Bituminous Application Rates, See 5th. # 3.

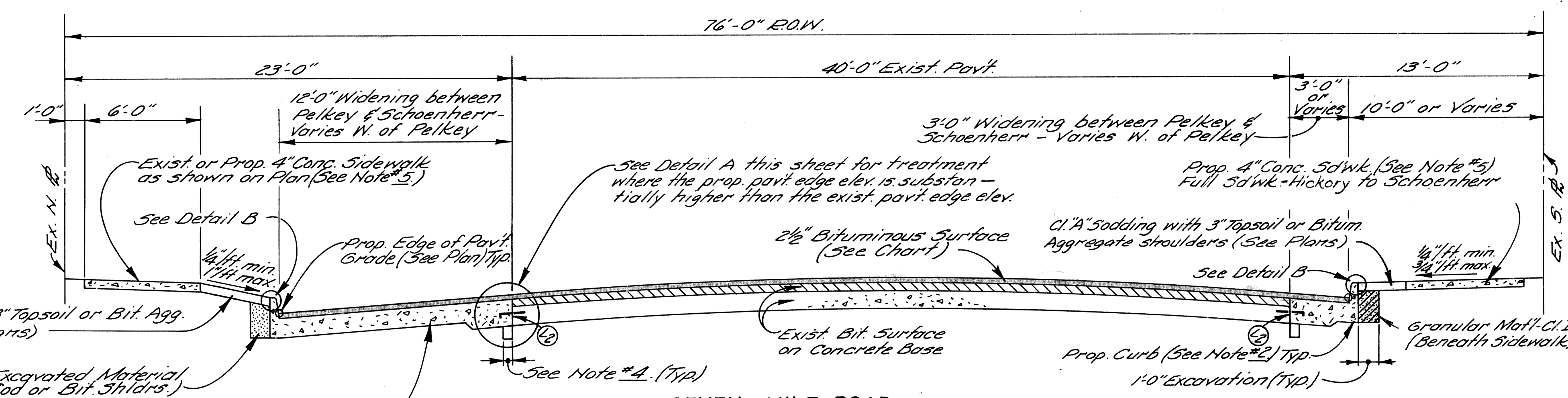
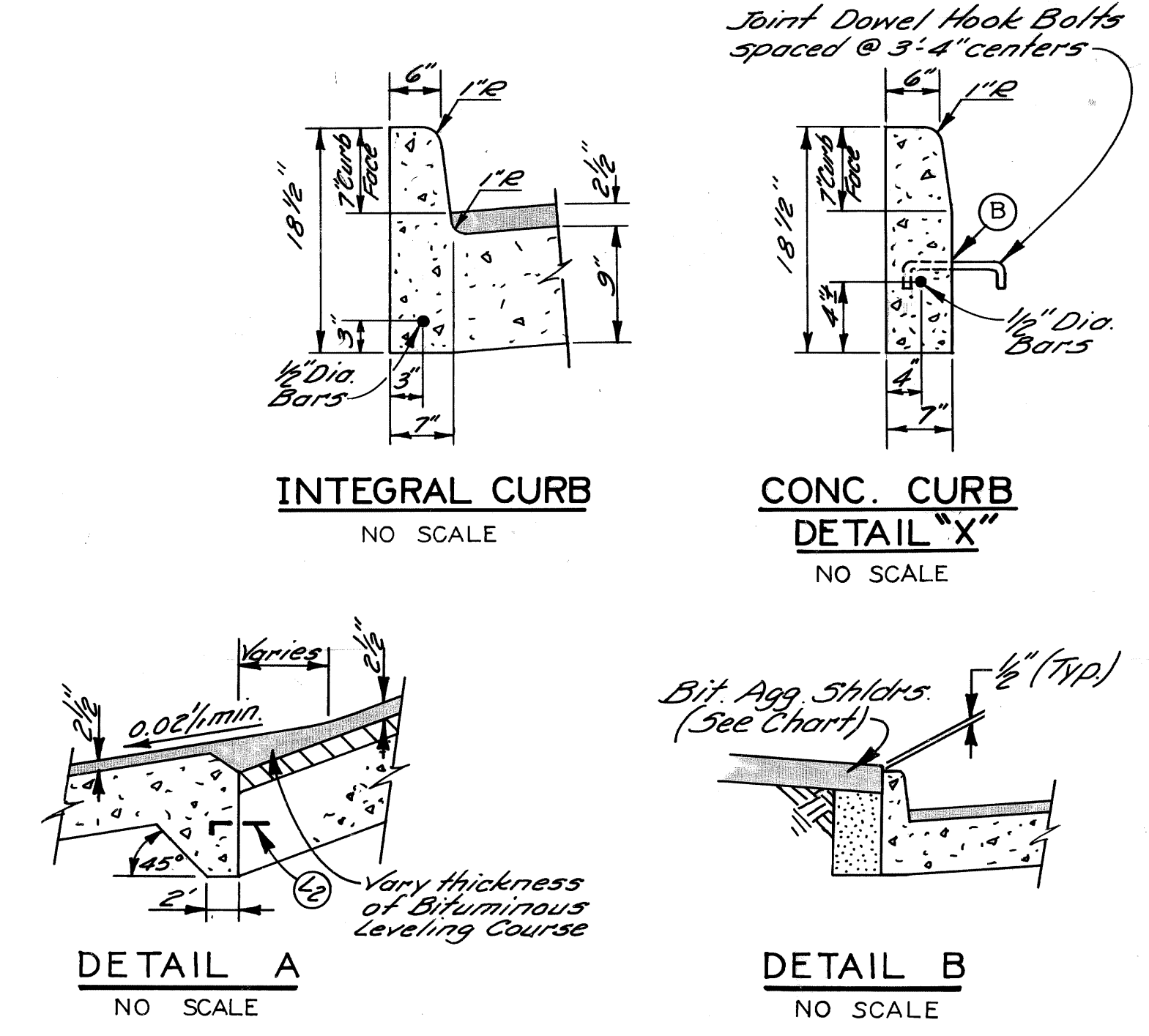
	DESIGNED BY <i>M.A.R./R.A.C.</i> DRAWN BY <i>YHP</i> TRACED BY CHECKED BY <i>R.A.C.</i>	APPROVED: <i>Allen E. Proger</i>	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - HOOVER AVE. INTERSECTION IMPROVEMENT TYPICAL CROSS-SECTION	SHEET <u>2</u> OF <u>49</u> SHEETS CONTRACT NO. 08692 A ASSIGN. NO. 2307 DATE NOV. 14, 1975
--	--------------------------------------------------------------------------------------------------	-------------------------------------	-------------------------------------------------------	-----------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------



SEVEN MILE ROAD
TYPICAL WIDENING AND RESURFACING
W. OF HICKORY AVE. TO STA. 14+75
 NO SCALE

Miscellaneous Quantities 7 Mile - Schoenherr

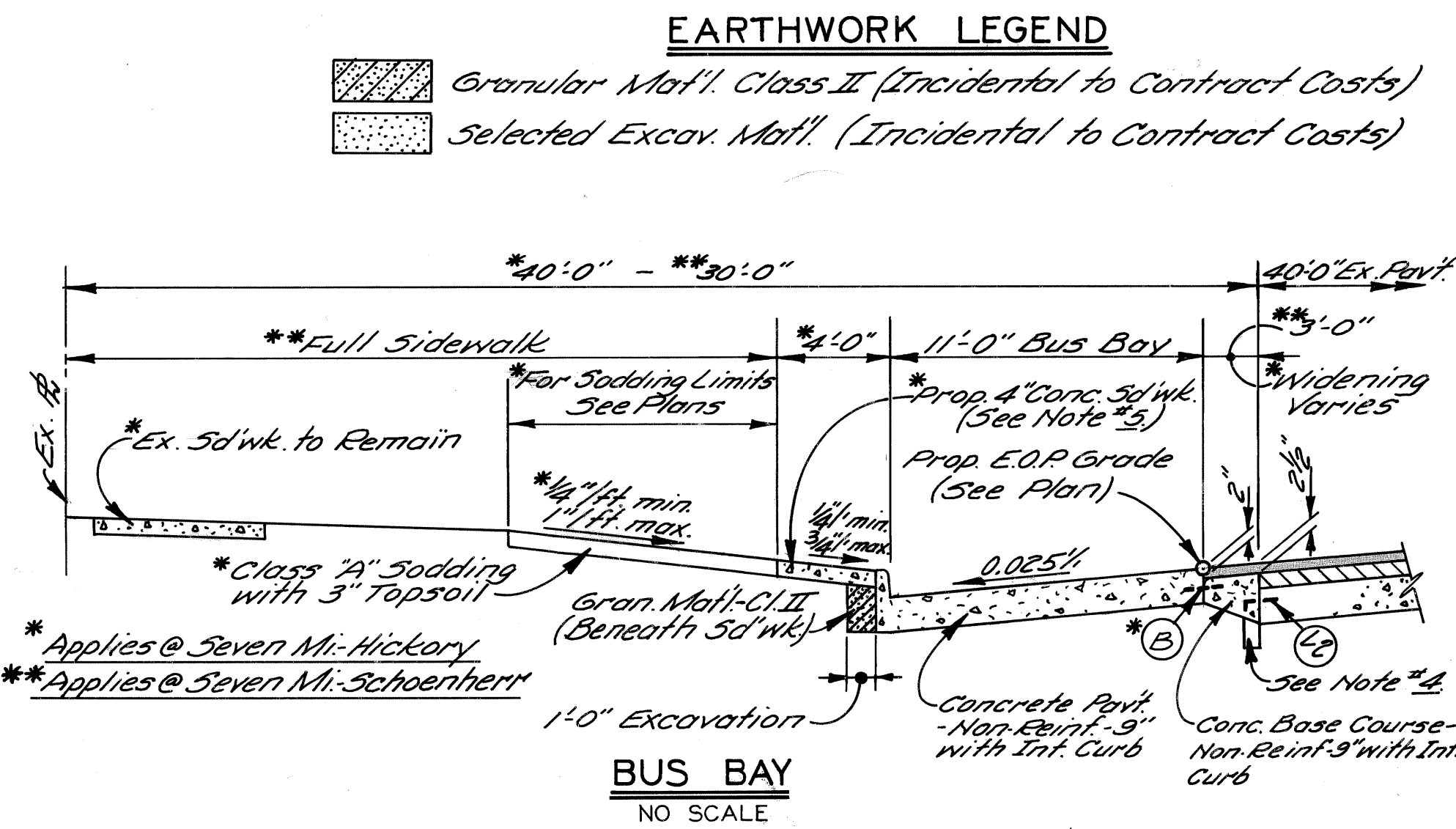
Maintaining Traffic	Lump Sum
Type II Barricade (Drums) Lighted	98 Each
Drum Guide Rail	450 Lin. Ft.



SEVEN MILE ROAD
TYPICAL WIDENING AND RESURFACING
STA. 14+75 TO SCHOENHERR AVE.
 NO SCALE

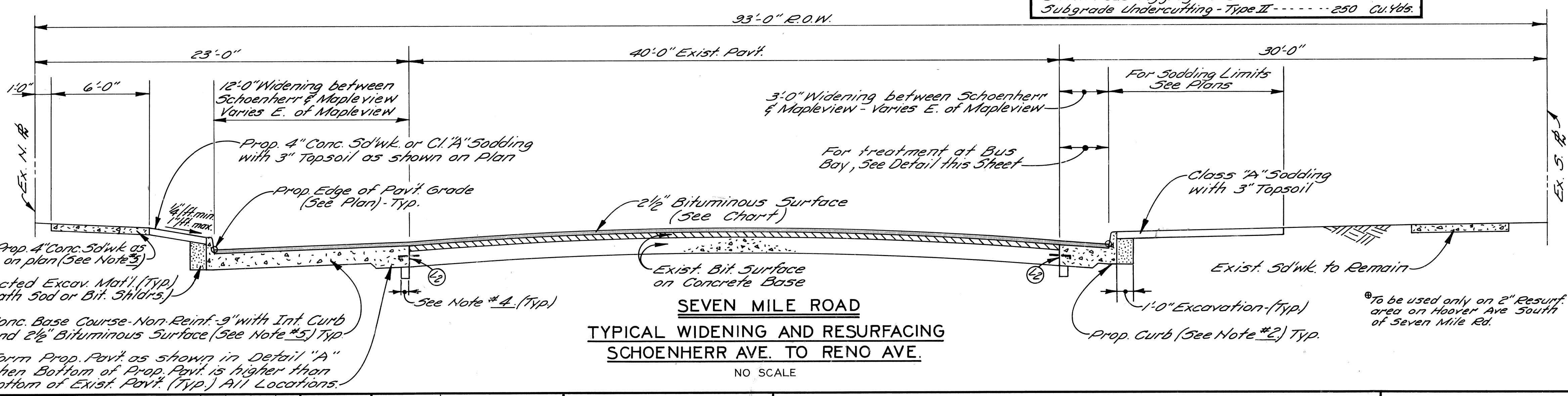
The following quantities are estimated for use throughout 7 Mile - Schoenherr @ the Discretion of the Engineer.

4" Concrete Sidewalk	650	Sq. Ft.
Removing Sidewalk	70	Sq. Yds.
Class 'A' Sodding	80	Sq. Yds.
Topsoil Surface (L.M.)	9	Cu. Yds.
Water	0.2	Units
Bituminous Aggregate Shoulders	2	Tons
Subgrade Undercutting - Type II	250	Cu. Yds.



BUS BAY
 NO SCALE

JOINT LEGEND
 (2) , (B) or (L) Longitudinal Bulkhead Construction Joint, according to M.D.S.H. Std. Dwg. II-39 C



SEVEN MILE ROAD
TYPICAL WIDENING AND RESURFACING
SCHOENHERR AVE. TO RENO AVE.
 NO SCALE

GENERAL NOTES

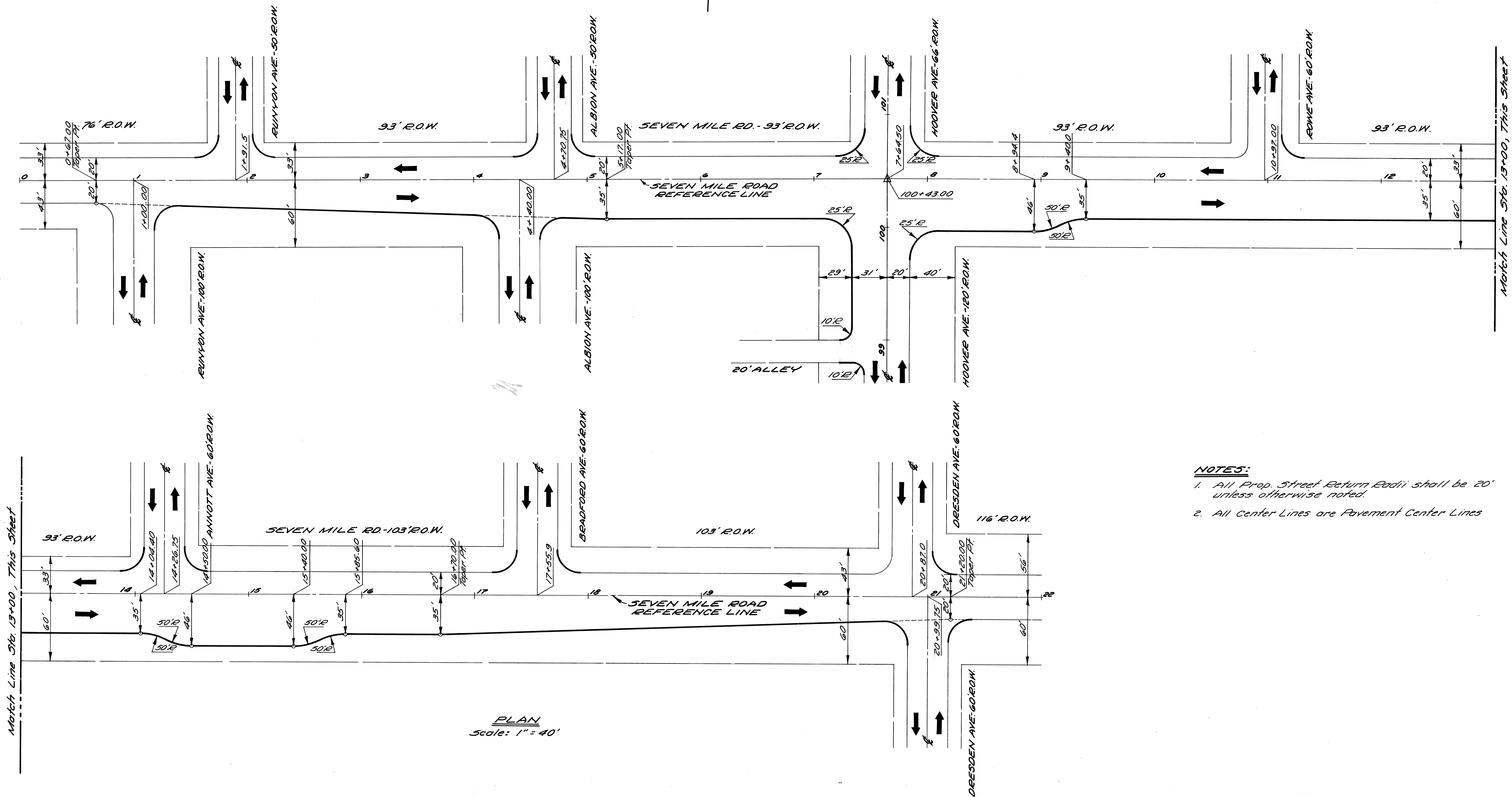
- It is estimated that approx. 500 Cu. Yds. of subgrade undercutting - Type II may be req'd. for this Contract.
- The prop. curb shall be Int. Curb (See Detail this Sheet) with Conc. Curb Det. X as an alternate. If Conc. Curb Det. X is used, the new pav't. curb must be constructed integrally where the pav't. widening is 1'-0" or less.
- Place 4" Conc. Sidewalk to face of bldg. where bldg. fronts on property line.
- Fill existing curb void with Granular Mat'l. Class II (Incidental)
- Backfill if req'd. under prop. sidewalks & pav't. shall be Granular Mat'l. Class II (Incidental to Contract Costs).

BITUMINOUS APPLICATION RATES				
ITEM	RATE OF APPLICATION	ESTIMATED THICKNESS	ASPHALT PENETRATION	
Bit. Conc. Leveling Course (25A)	160%/5.4	1 1/2" Inches	85-100	
Bit. Conc. Wearing Course (31A) Type F	110%/5.4	1" Inch	85-100	
Bit. Agg. Shoulders	170%/5.4	1 1/2" Inches	200-250	

Bit. Bond Coat - 0.10 Gal./Sq. Yd. to rigid bases & 0.10 Gal./Sq. Yd. Tack Coat bet. bit. layers

Bit. Bond Coat RC 70 may be used in lieu of MS-20 & 55-1h on this project where thru traffic is defaured from the construction area. The contractor however, is cautioned of the flammable characteristic of this mat'l. & shall take due precautions when using same.

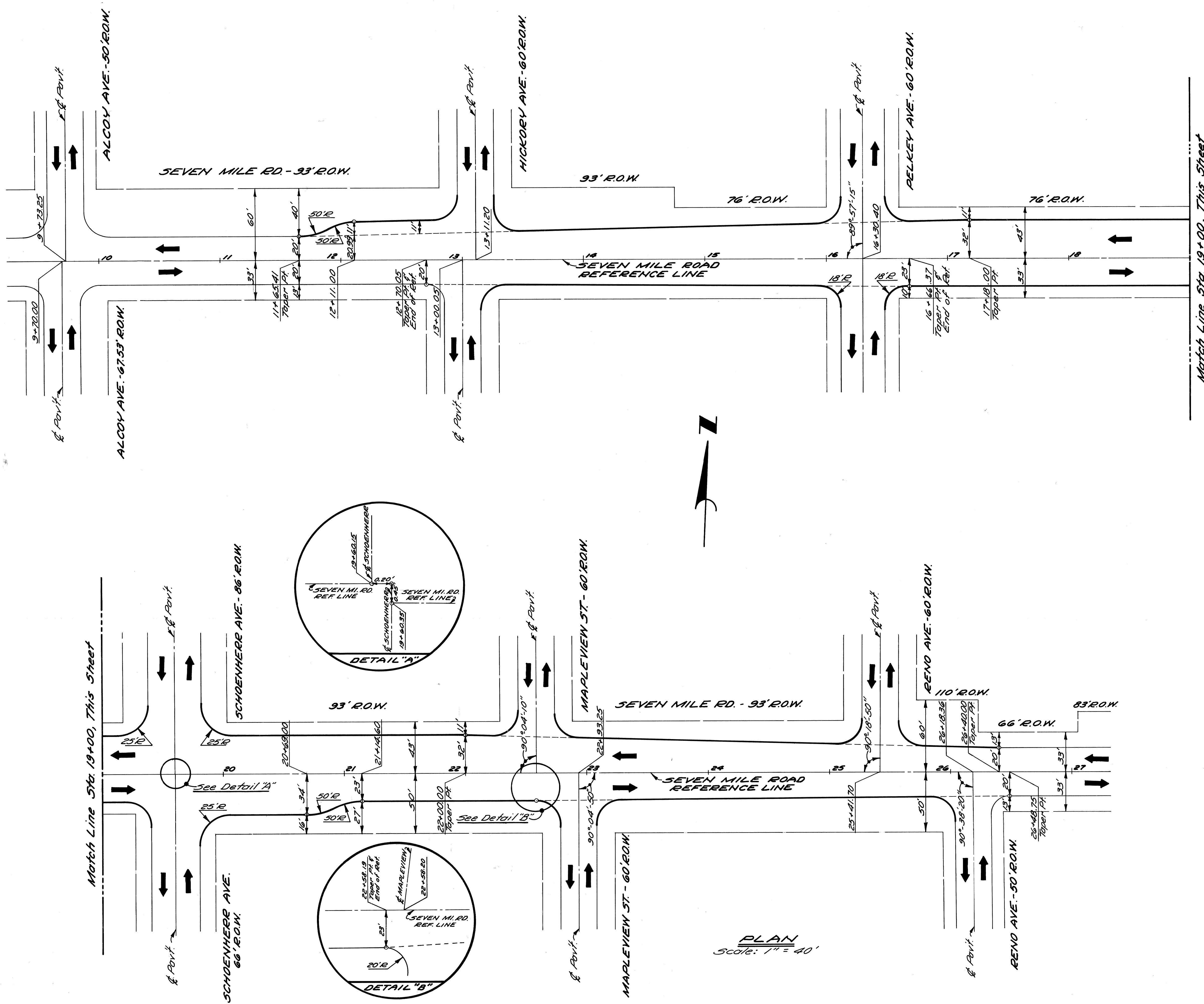
DESIGNED BY	MAP/RAC	APPROVED:	<i>Allen E. Logan</i>	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - SCHOENHERR AVE. INTERSECTION IMPROVEMENT TYPICAL CROSS-SECTION	SHEET 3 OF 49 SHEETS CONTRACT NO. 08690 A ASSIGN. NO. 2302 DATE NOV. 14, 1975
DRAWN BY	MAP					
TRACED BY						
CHECKED BY	R.A.C.					



PLAN
Scale: 1" = 40'

- NOTES:**
1. All Prop. Street Return Radii shall be 20' unless otherwise noted.
 2. All Center Lines are Pavement Center Lines

REVISIONS LOCATED BY COORDINATES ON SHEET NO. DESCRIPTION DATE 1 2 3 4 5 6 7 8 9 10 11		REFERENCE DRAWINGS DESIGNED BY: <i>MAD/RAC</i> DRAWN BY: <i>MAB</i> TRACED BY: CHECKED BY: <i>RAC</i>	APPROVED: <i>Allen E. Prokop</i>	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - HOOVER AVE. INTERSECTION IMPROVEMENT ALIGNMENT	SHEET 4 OF 49 SHEETS CONTRACT No. 08692A ASSIGN No. 2307 DATE NOV. 14, 1975 C-5575
----------------------------------------------------------------------------------------------------------------------------	--	-------------------------------------------------------------------------------------------------------------------	-------------------------------------	------------------------------------------------	-----------------------------------------------------------------------	------------------------------------------------------------------------------------------------



NOTES:
 1. All Street Return Radii are 20' unless otherwise noted.

PLAN
 Scale: 1" = 40'

NO.	DESCRIPTION	DATE

DESIGNED BY	R. PLATER
DRAWN BY	M. POLITO
TRACED BY	
CHECKED BY	R. COMLY

APPROVED:
Allen E. Progen

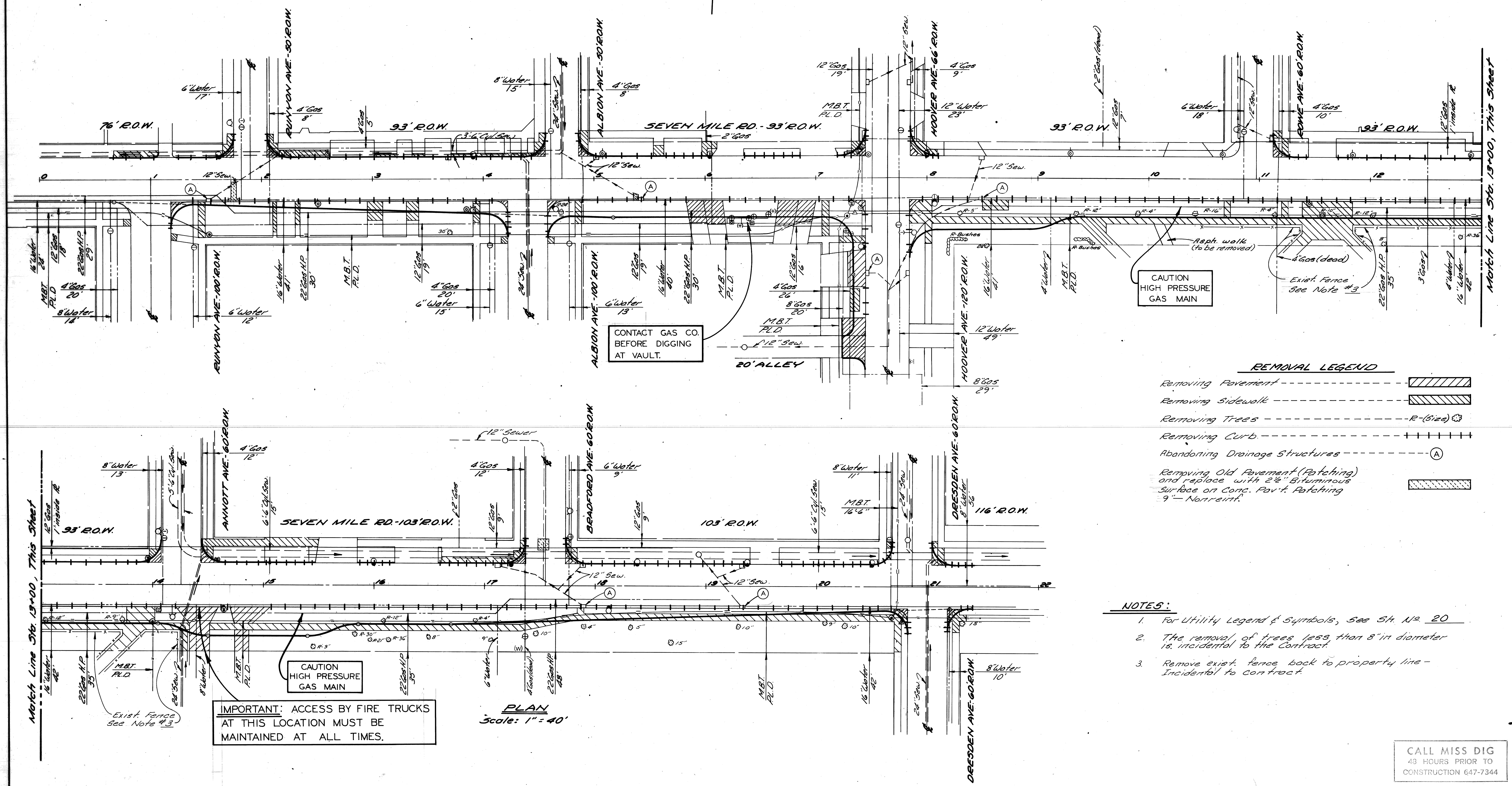
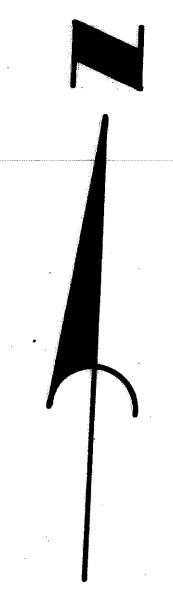
CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT

SEVEN MILE RD. - SCHOENHERR AVE.
 INTERSECTION IMPROVEMENT

ALIGNMENT

SHEET	5	OF	49	SHEETS
CONTRACT No.	08690A			
ASSIGN No.	2302			
DATE	NOV. 14, 1975			

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344



CONTACT GAS CO.
BEFORE DIGGING
AT VAULT.

CAUTION
HIGH PRESSURE
GAS MAIN

- REMOVAL LEGEND**
- Removing Pavement --- [diagonal hatching]
 - Removing Sidewalk --- [cross-hatching]
 - Removing Trees --- R-(size) [circle with 'R']
 - Removing Curb --- [dashed line]
 - Abandoning Drainage Structures --- (A) [circle with 'A']
 - Removing Old Pavement (Patching) and replace with 2 1/2" Bituminous Surface on Conc. Pav't. Patching 9" Nonreinf. --- [diagonal hatching]

- NOTES:**
1. For Utility Legend & Symbols, See St. No. 20
 2. The removal of trees less than 8" in diameter is incidental to the Contract.
 3. Remove exist. fence back to property line - Incidental to contract.

**IMPORTANT: ACCESS BY FIRE TRUCKS
AT THIS LOCATION MUST BE
MAINTAINED AT ALL TIMES.**

PLAN
Scale: 1" = 40'

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

DESIGNED BY MS / I.H.K. DRAWN BY MS TRACED BY CHECKED BY I.H.K.		APPROVED: <i>Allen E. Prager</i>		CITY OF DETROIT CITY ENGINEERING DEPARTMENT		SEVEN MILE RD - HOOPER AVE. INTERSECTION IMPROVEMENT REMOVALS		SHEET 6 OF 49 SHEETS CONTRACT NO. 08692A ASSIGN. NO. 2307 DATE NOV 14 1975	
--------------------------------------------------------------------------	--	-------------------------------------	--	------------------------------------------------	--	---------------------------------------------------------------------	--	-------------------------------------------------------------------------------------	--

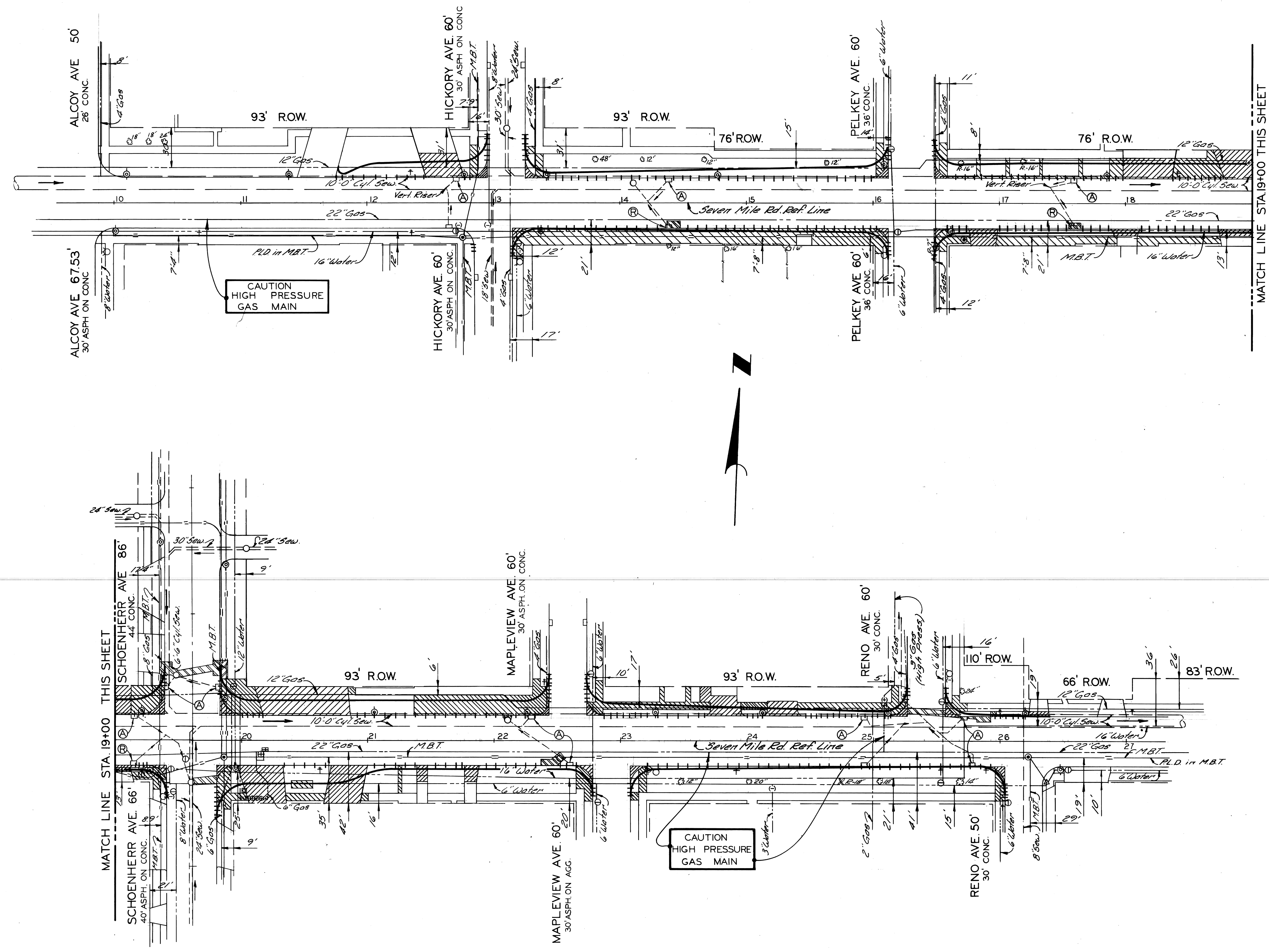
NO.	DESCRIPTION	CHK.	DATE
1	REVISIONS LOCATED BY COORDINATES ON SHEET		

16-5515

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

REMOVAL LEGEND

- Removing Pavement ----- [Hatched Box]
- Removing Sidewalk ----- [Hatched Box]
- Removing Trees ----- R(Size) ⊗
- Removing Curb ----- [Dashed Line]
- Removing Old Pavement (Patching),
Replace with Conc. Pavt. Patching - 9" Non-riant. ----- [Hatched Box]
- Abandoning Drainage Structures ----- (A)
- Removing Drainage Structures ----- (R)
- Removing Sidewalk - Replace with
6" Concrete Sidewalk ----- [Hatched Box]
- Removing Stumps ----- R(Size) X



- NOTES:**
- For Utility Legend & Symbols, See Sht. N^o 20.
 - The removal of trees less than 8" in diameter is incidental to the contract.

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

PLAN
SCALE: 1" = 40'

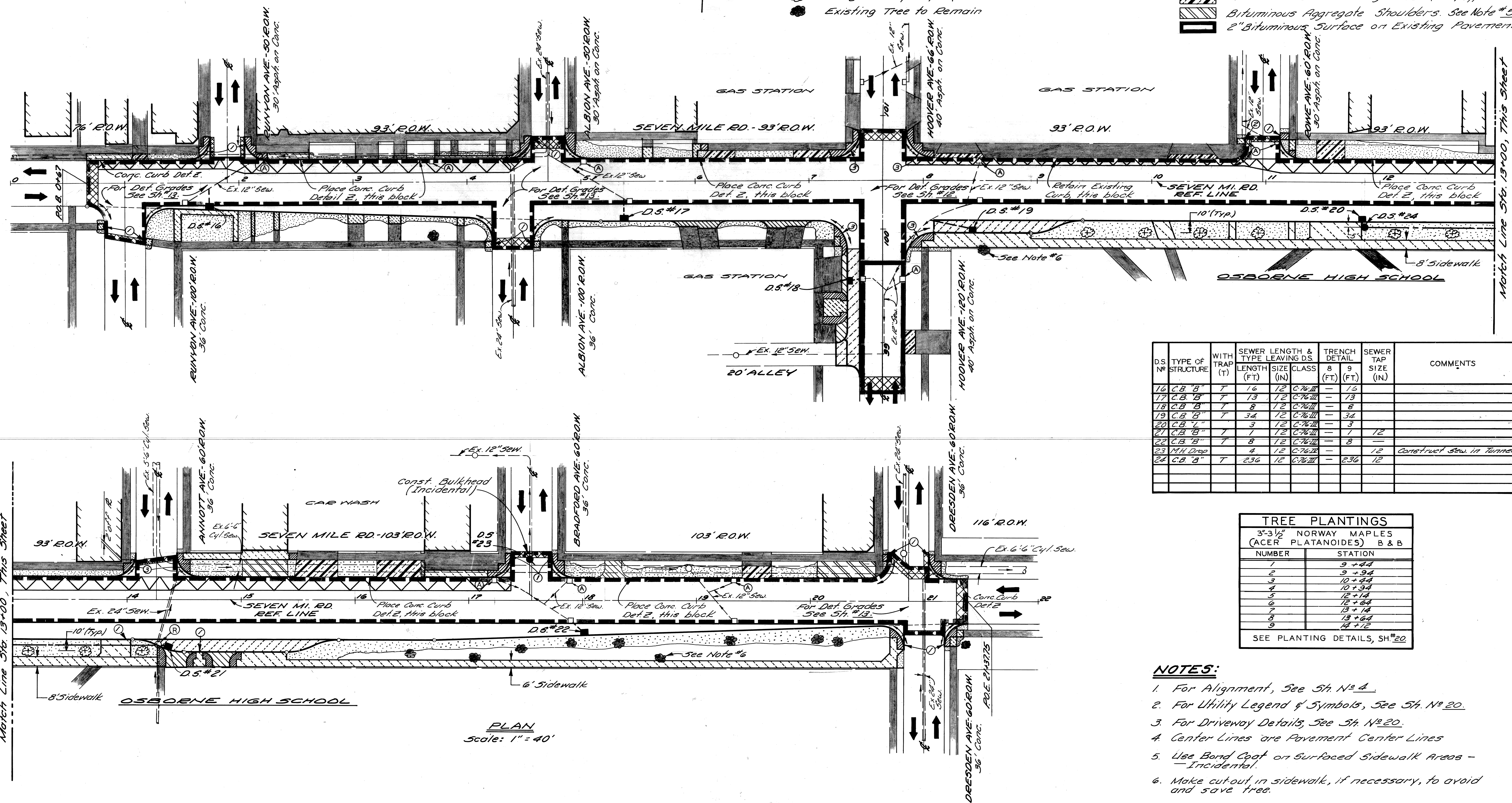
DESIGNED BY M.S./ I.H.K.		APPROVED: <i>Allen & Prokop</i>		CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. — SCHOENHERR AVE INTERSECTION - IMPROVEMENT	REMOVALS	SHEET 7 OF 49 SHEETS
DRAWN BY M.S.							CONTRACT NO. 08690A
CHECKED BY I.H.K.							ASSIGN NO. 2302
REVISIONS LOCATED BY COORDINATES ON SHEET						DATE NOV. 14, 1975	

C.B.M. Elev. 148.12 Arrow on Hydrant
N.W. Corner Eumyon Ave & Seven Mi. Rd
P.B.M. # 93-256 Elev. 145.70 S.W. Corner
Eumyon Avenue and Seven Mile Road
C.B.M. Elev. 150.44 Arrow on Hydrant
N.E. Corner Rowe Ave & Seven Mi. Rd.

P.B.M. # 93-256-A Elev. 150.136 N.E. Cor.
Annott Avenue and Seven Mile Road
C.B.M. Elev. 152.54 Arrow on Hydrant
N.E. Corner Bradford Ave & Seven Mi. Rd.
C.B.M. Elev. 153.22 Arrow on Hydrant
N.W. Corner Dresden Ave & Seven Mi. Rd.

SURFACING LEGEND

- Conc. Base Course - Non-Reinf. - 9" with Int. Curb and 2" Bituminous Surface
- 2" Bituminous Surface on Existing Pavement
- Concrete Pavt. - Non-Reinf. - 8" (Driveway)
- 4" Concrete Sidewalk
- Class "A" Sodding with 3" Topsoil
- Existing Sidewalk or Driveway to Remain
- Existing Building
- 3-3 1/2" Norway Maple (Acer Platanoides) B & B
- Existing Tree to Remain
- 6" Concrete Sidewalk (Sidewalk Ramp Areas are Paid for Separately)
- Remove Bituminous Surface & Resurface
- Adjusting Drainage Structure Covers
- Sidewalk Ramps (4" or 6") Types ①, ② or ③
- Conc. Pavt. - Non-Reinf. - 9" with Int. Curb
- Removing Bituminous Surface - Planer Method
- Reconstructing Drainage Structures
- Bituminous Conc. Wearing Course (31A) Type F
- Bituminous Aggregate Shoulders. See Note #5.
- 2" Bituminous Surface on Existing Pavement



D.S. NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH (FT)	TYPE & LEAVING CLASS	TRENCH DETAIL (FT)	SEWER TAP SIZE (IN)	COMMENTS
16	C.B. "B"	T	16	12 C76 III	- 16		
17	C.B. "B"	T	13	12 C76 III	- 13		
18	C.B. "B"	T	8	12 C76 III	- 8		
19	C.B. "B"	T	34	12 C76 III	- 34		
20	C.B. "T"		3	12 C76 III	- 3		
21	C.B. "B"	T	1	12 C76 III	- 1	12	
22	C.B. "B"	T	8	12 C76 III	- 8		
23	M.H. Drop		4	12 C76 III	-	12	Construct Sew. in Tunnel
24	C.B. "B"	T	236	12 C76 III	- 236	12	

TREE PLANTINGS	
3"-3 1/2" NORWAY MAPLES (ACER PLATANOIDES) B & B	
NUMBER	STATION
1	9+44
2	9+94
3	10+44
4	10+94
5	12+14
6	12+64
7	13+14
8	13+64
9	14+12

SEE PLANTING DETAILS, SH #20

- NOTES:**
- For Alignment, See Sh. No. 4.
 - For Utility Legend & Symbols, See Sh. No. 20.
 - For Driveway Details, See Sh. No. 20.
 - Center Lines are Pavement Center Lines
 - Use Bond Coat on Surfaced Sidewalk Areas - Incidental.
 - Make cutout in sidewalk, if necessary, to avoid and save tree.

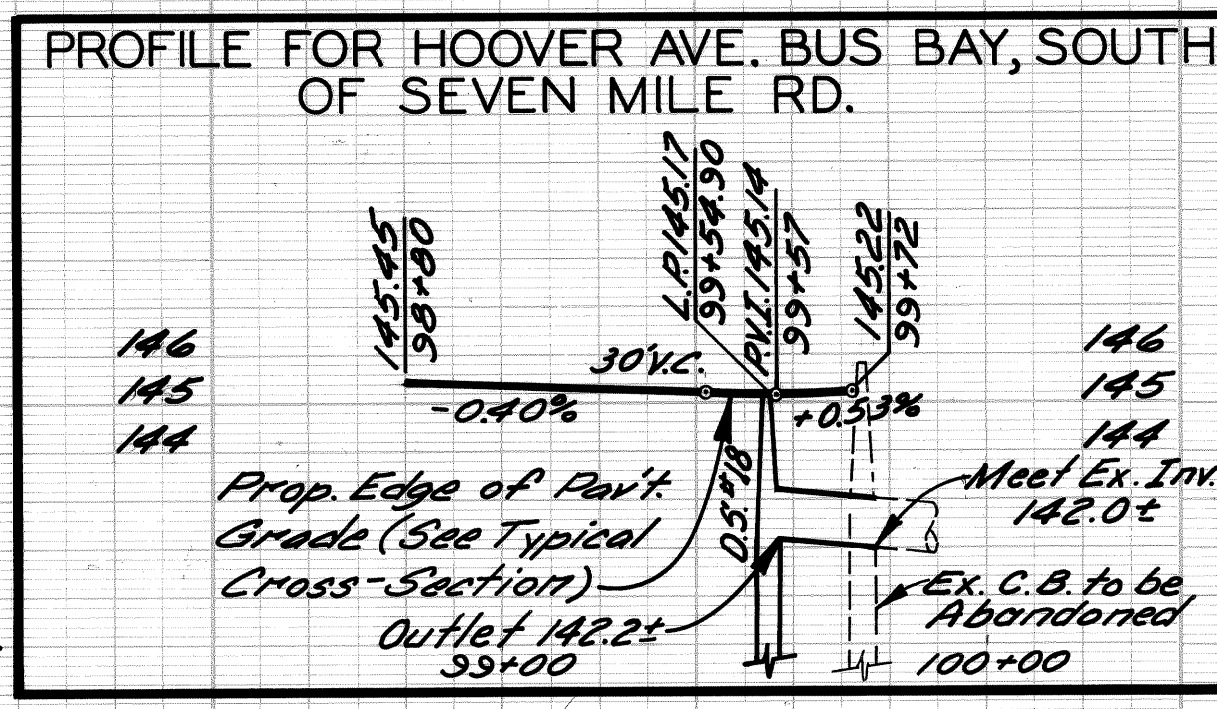
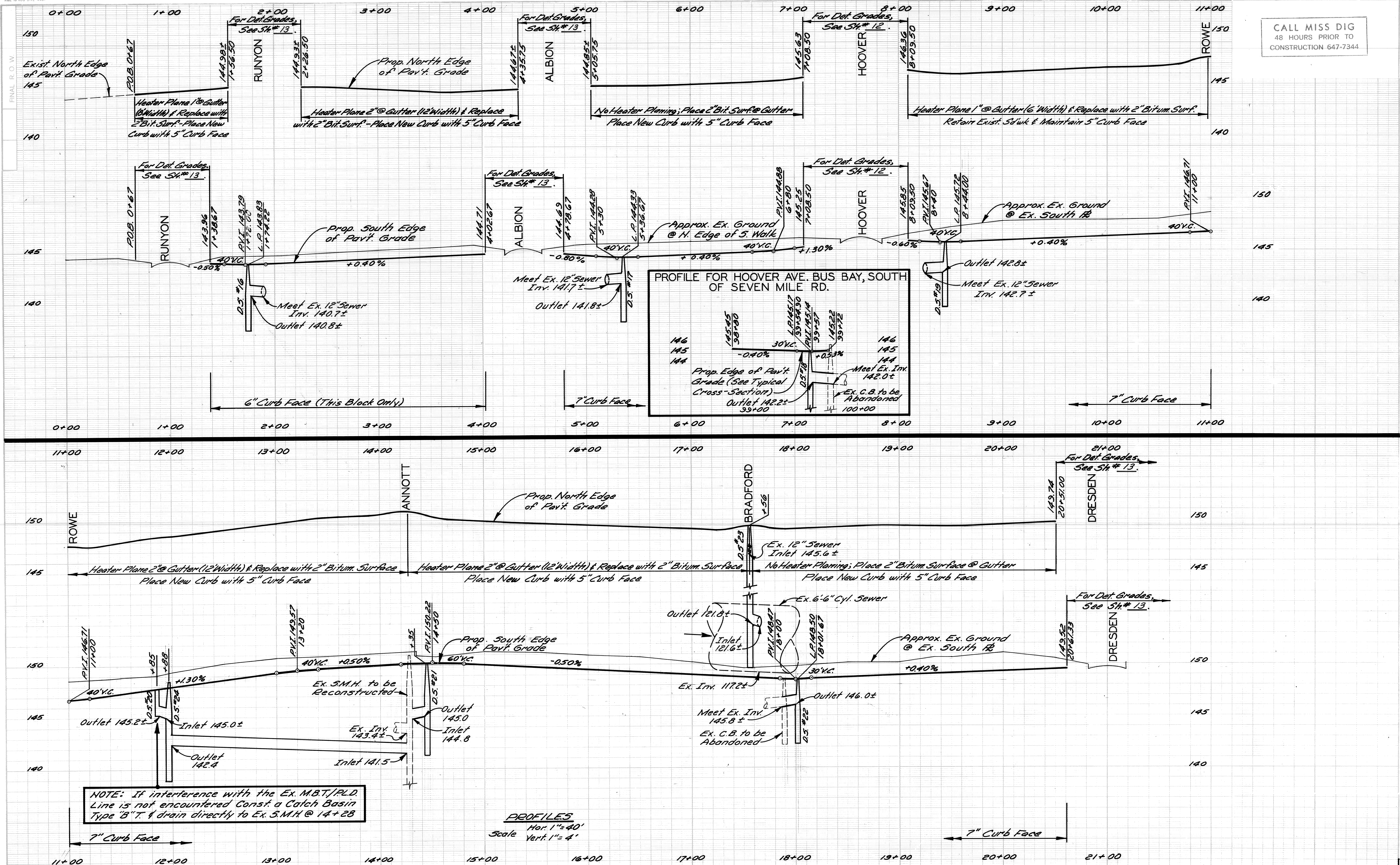
PLAN
Scale: 1" = 40'

	DESIGNED BY <i>R.A.C.</i>	APPROVED: <i>Allen E. Progen</i> ENGINEER OF EXPRESSWAYS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - HOOVER AVE. INTERSECTION IMPROVEMENT	SHEET <u>8</u> OF 49 SHEETS ASSIGN. No. 2307 CONT. NO. 08692A DATE NOV. 14, 1975
	DRAWN BY <i>WHP</i>			PLAN	
	TRACED BY				
	CHECKED BY <i>R.A.C.</i>				

NO.	DESCRIPTION	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

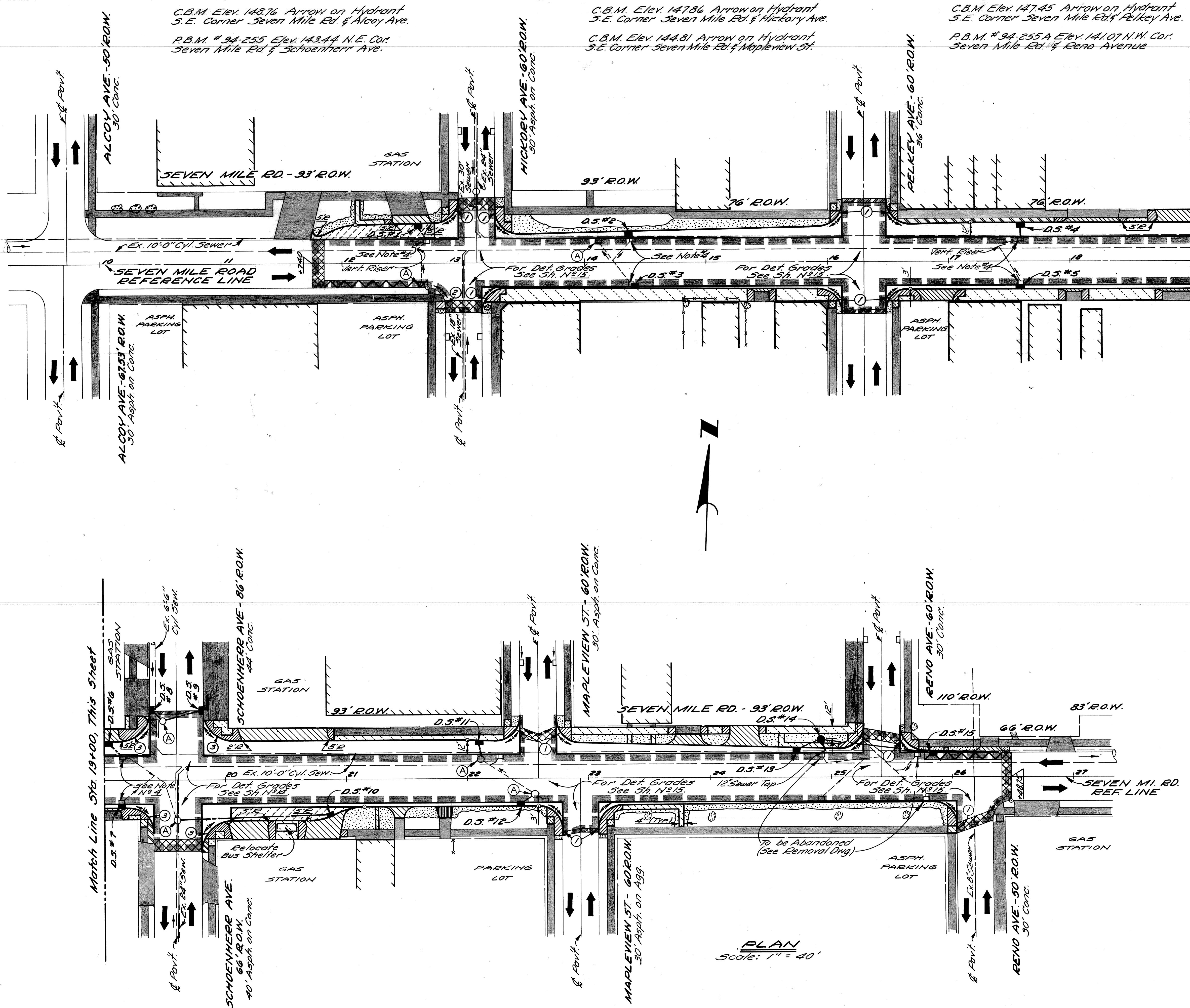
CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344



NOTE: If interference with the Ex. M.B.T./P.L.D. Line is not encountered Const. a Catch Basin Type "B" T. & drain directly to Ex. S.M.H. @ 14+28

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

DESIGNED BY	R.A.C.	APPROVED	<i>Allen E. Prosser</i>	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - HOOVER AVE. INTERSECTION IMPROVEMENT	SHEET 9 OF 49 SHEETS
DRAWN BY	J.D.	ENGINEER OF EXPRESSWAYS				CONTRACT NO. 08692A
CHECKED BY						ASSIG. NO. 2307
FINAL REVIEW	R.A.C.					DATE NOV. 14, 1975



LEGEND

- Conc. Pavt.-Non-Reinf.-9" with Integral Curb
- Conc. Base Course - Non-Reinf. 9" with Int. Curb and 2 1/2" Bituminous Surface
- 2 1/2" Bituminous Surface on Existing Pavement
- Conc. Pavt.-Non Reinf.-8" (Driveway)
- 4" Concrete Sidewalk
- 6" Concrete Sidewalk (Sidewalk Ramps Areas are Paid for Separately)
- Class "A" Sadding with 3" Topsoil
- Existing Sidewalk or Driveway to Remain
- Existing Building
- Remove Bituminous Surface & Resurface
- Conc. Pavt.-Non Reinf.-6" (Driveway)
- Bituminous Aggregate Shoulders
- (A) Adjusting Drainage Structure Covers
- ① ② or ③ Sidewalk Ramps (4" or 6") Types ① ② or ③
- Chipping Pavement for Joints
- Removing Bituminous Surface-Planer Method (Removing Bituminous Surface-Optional)

D.S. NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH (FT.)	TYPE LEAVING D.S. (IN)	SEWER CLASS	TRENCH DETAIL		SEWER TAP SIZE (IN)	COMMENTS
						8 (FT.)	9 (FT.)		
1	C.B. 'B'	T	11	12	C-7 1/2 III		11		See Note # 5
2	C.B. 'B'	T	5	12	C-7 1/2 III		5		
3	C.B. 'B'	T	2	12	C-7 1/2 III		2		
4	C.B. 'B'	T	8	12	C-7 1/2 III		8		
5	C.B. 'B'	T	2	12	C-7 1/2 III		2		
6	C.B. 'B'	T	12	12	C-7 1/2 III		12		
7	C.B. 'B'	T	2	12	C-7 1/2 III		2		
8	C.B. 'B'	T	6	12	C-7 1/2 III		6	12	
9	C.B. 'B'	T	27	12	C-7 1/2 III		27	12	
10	C.B. 'B'	T	119	12	C-7 1/2 III		119	12	
11	C.B. 'B'	T	8	12	C-7 1/2 III		8	12	See Note # 6
12	C.B. 'B'	T	8	12	C-7 1/2 III		8	12	
13	C.B. 'B'	T	14	12	C-7 1/2 III		14		Lower Sewer from D.S. 13 to D.S. No. 11 necessary to avoid D.S. #11
14	M.H. Drop		10	12	C-7 1/2 III			12	Construct Sewer in Tunnel
15	C.B. 'B'	T	88	12	C-7 1/2 III		88		

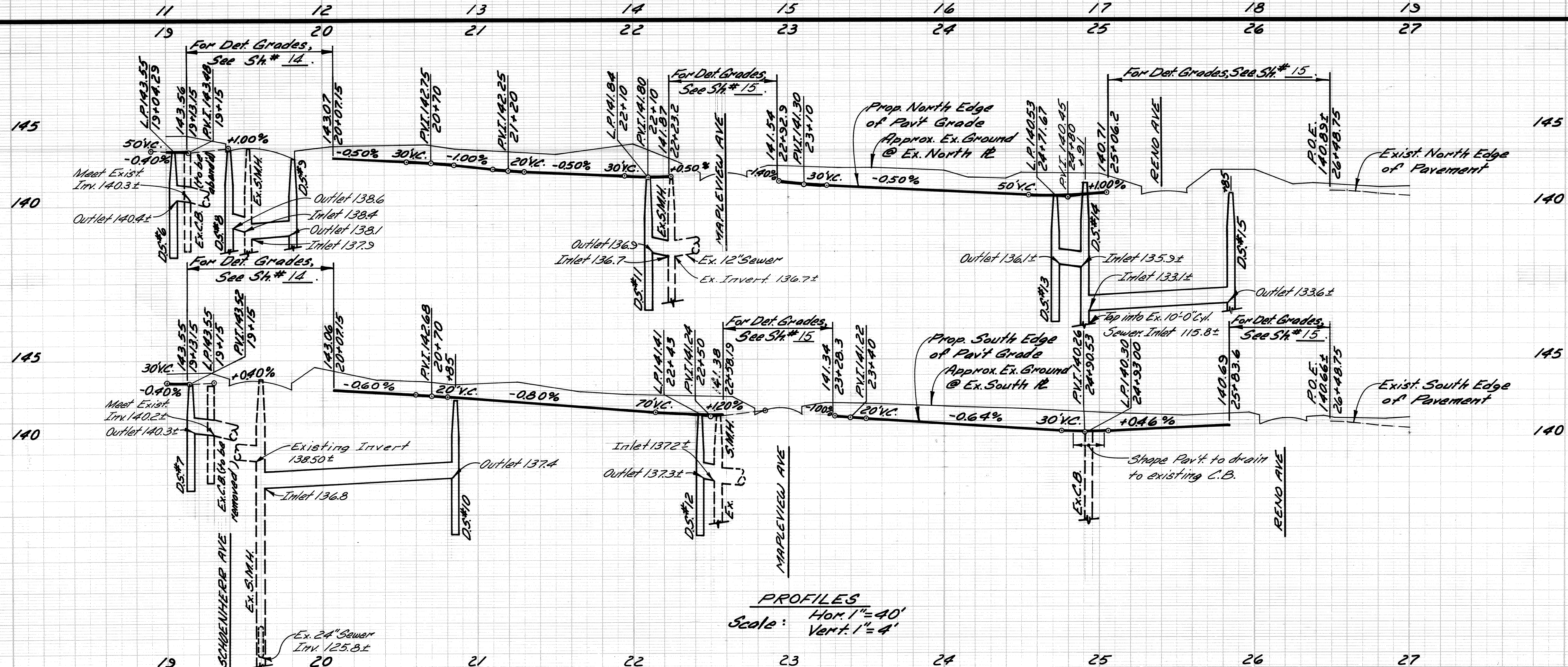
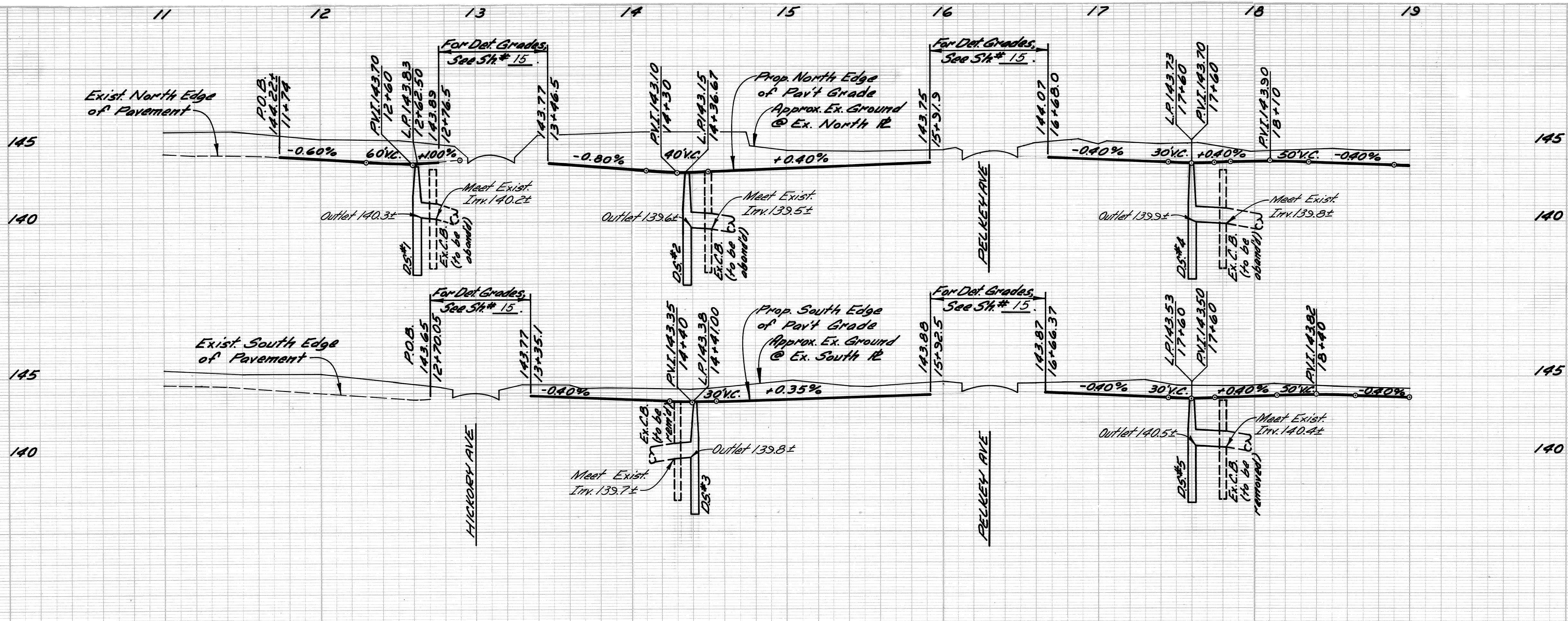
NOTES:

1. For Alignment, See Sh. N^o 5.
2. For Utility Legend & Symbols, See Sh. N^o 20.
3. For Driveway Details, See Sh. N^o 20.
4. Place properly connected pipe to match existing outlet pipe before abandoning or removing existing Catch Basin (Abandonments and Removals are billed on the removal drawing).
5. If Necessary use L-Basin with half trap to clear 12" Gas.
6. Locate Gas Main before constructing Catch Basin. Low Point might have to be adjusted to clear Gas.

PLAN
Scale: 1" = 40'

	DESIGNED BY <i>R.A.C.</i>	APPROVED: <i>Allen E. Lopez</i> ENGINEER OF EXPRESSWAYS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - SCHOENHERR AVE. INTERSECTION IMPROVEMENT	SHEET <u>10</u> OF <u>49</u> SHEETS CONTRACT NO. 08690A ASSIGNMENT N ^o 2302 DATE NOV. 14, 1975
	DRAWN BY <i>M.A.P.</i>				
	TRACED BY				
	CHECKED BY <i>R.A.C.</i>				
COORD. DESCRIPTION	DWN	CKD	APVD	DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET					

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344



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

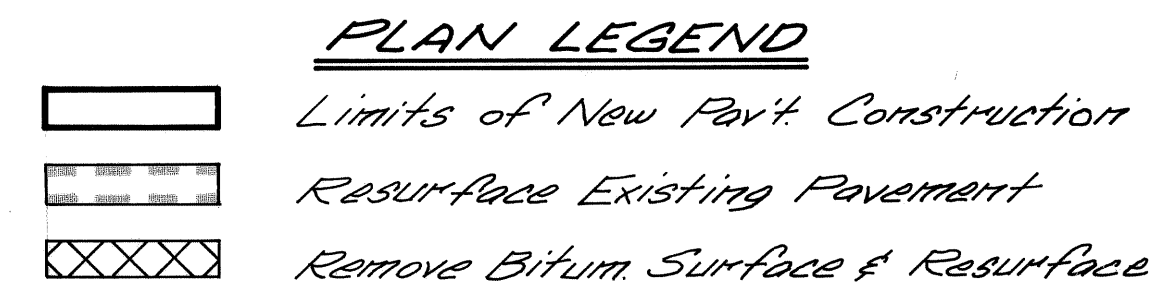
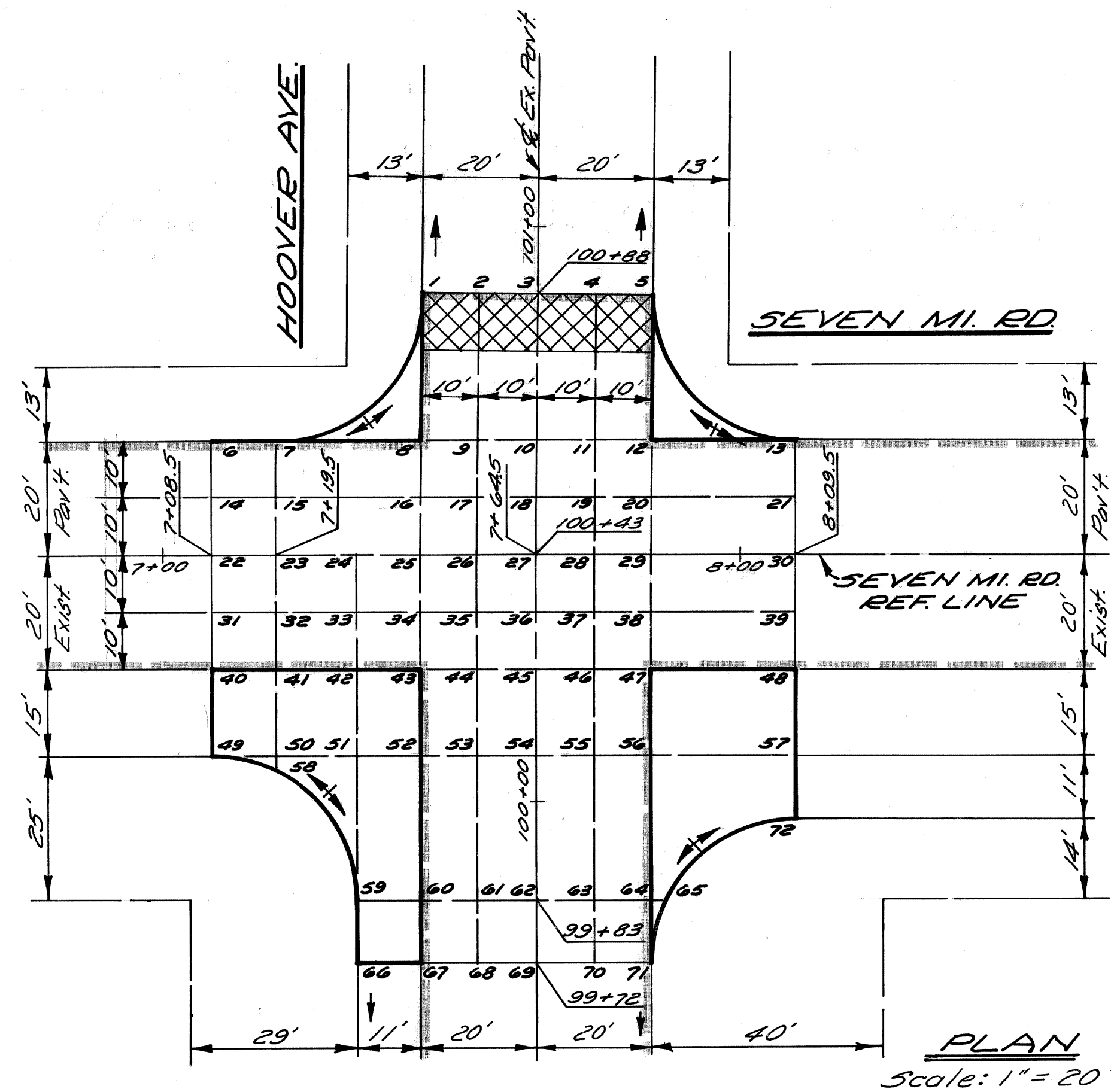
DESIGNED BY	R.A.C.	APPROVED	<i>Allen E. Berger</i>
DRAWN BY	J.D.	ENGINEER OF EXPRESSWAYS	
CHECKED BY			
FINAL REVIEW	R.A.C.		

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

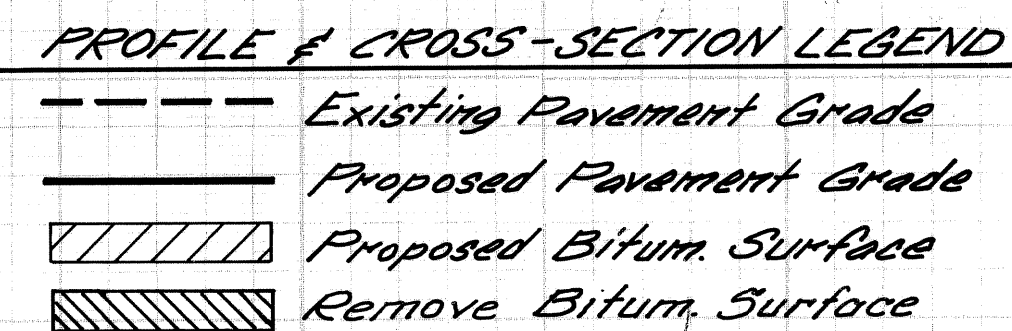
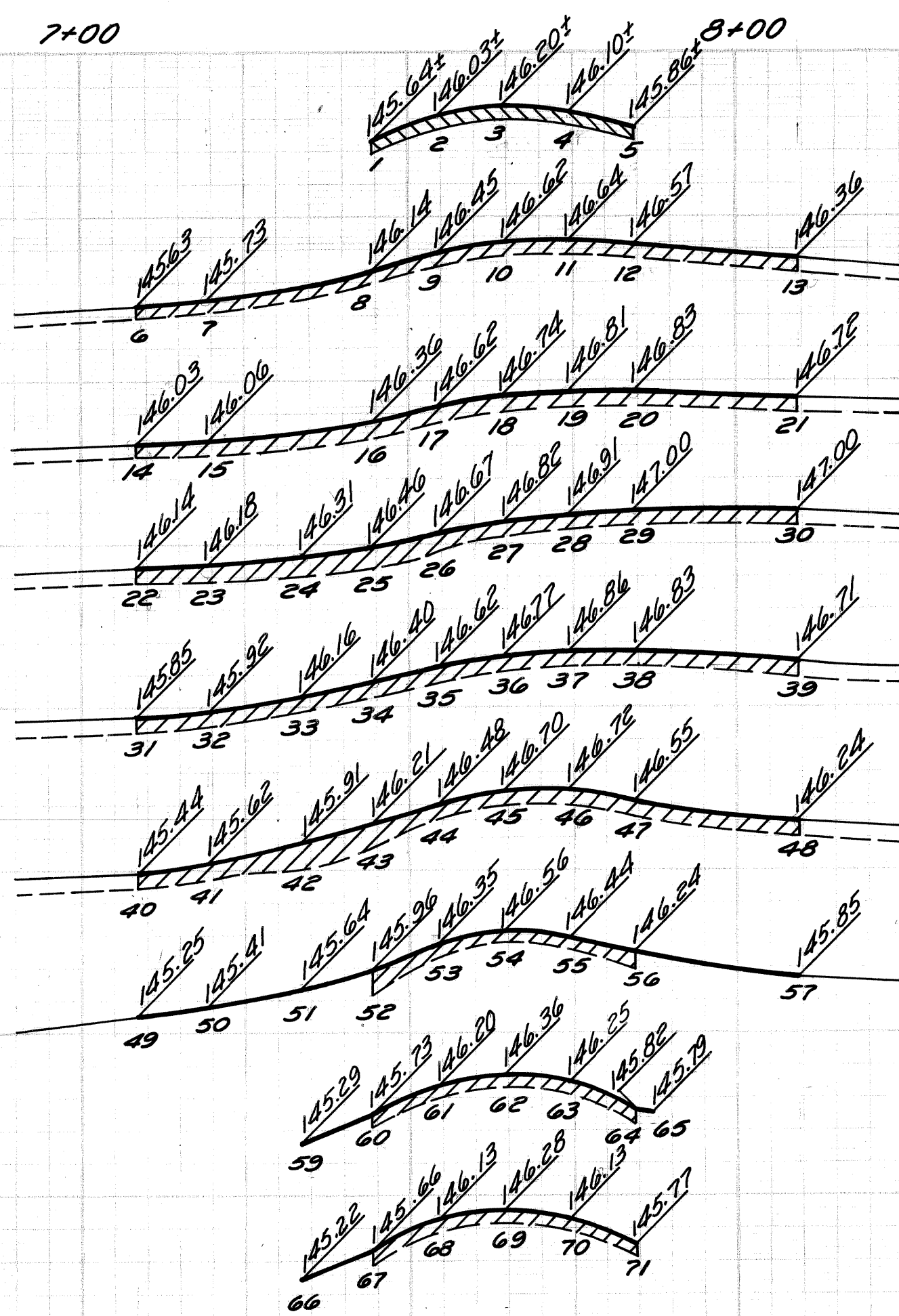
SEVEN MILE RD. - SCHOENHERR AVE.
INTERSECTION IMPROVEMENT

PROFILES

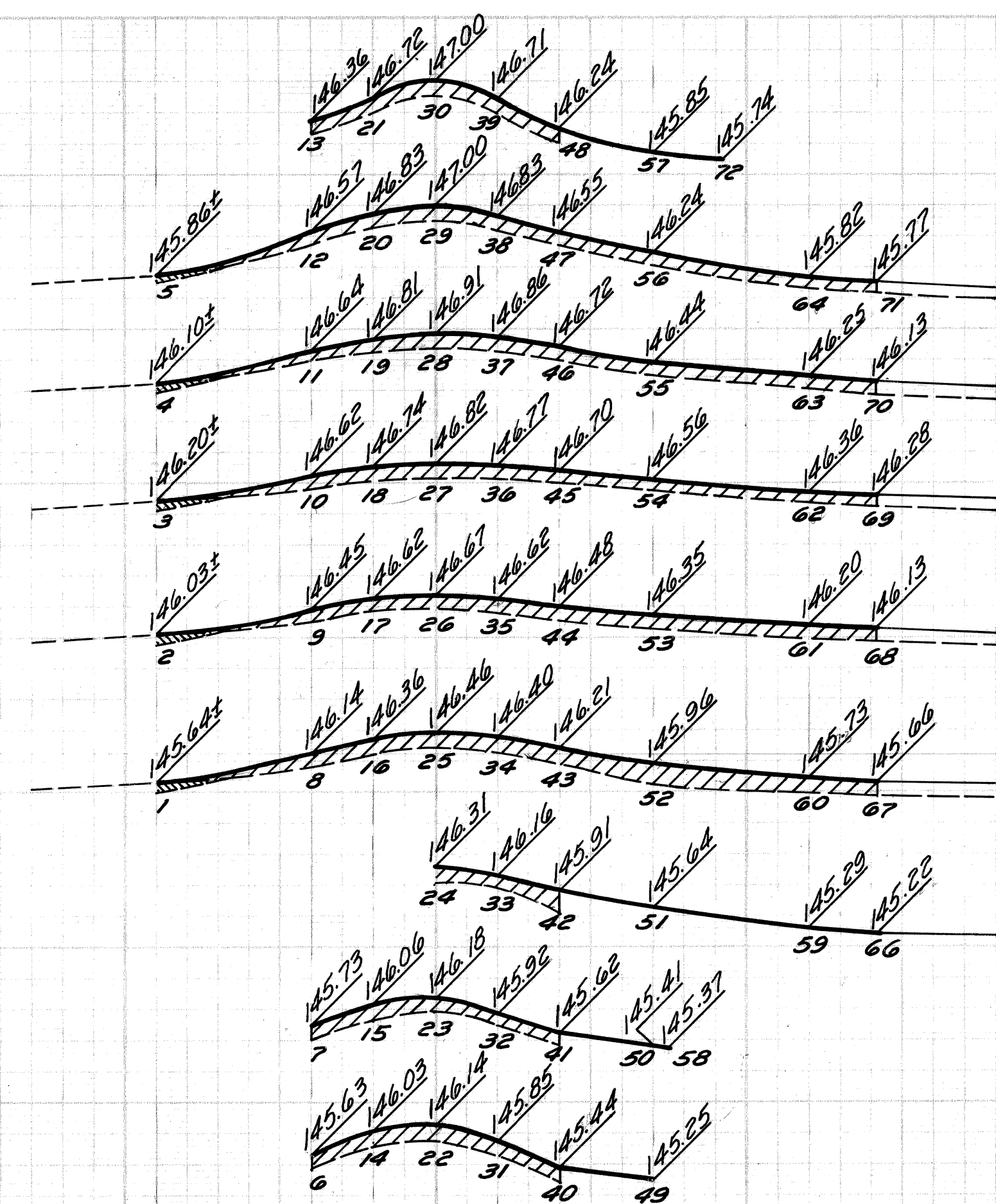
SHEET 11 OF 49 SHEETS
CONTRACT NO. 08690A
ASSIGNMENT NO. 2302
DATE NOV. 14, 1975



NOTE:
All proposed radii shall be 25'



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



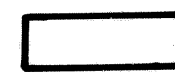


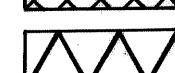

BY	J.R.D.	CHECKED BY	W.B.	APPROVED:	
PLAN	J.D.	I.H.K.		ENGINEER OF STREETS	
ESTIMATE				Highway Engineer	
DESCRIPTION	DRN	CK'D	AP'D	DATE	
REVISIONS					

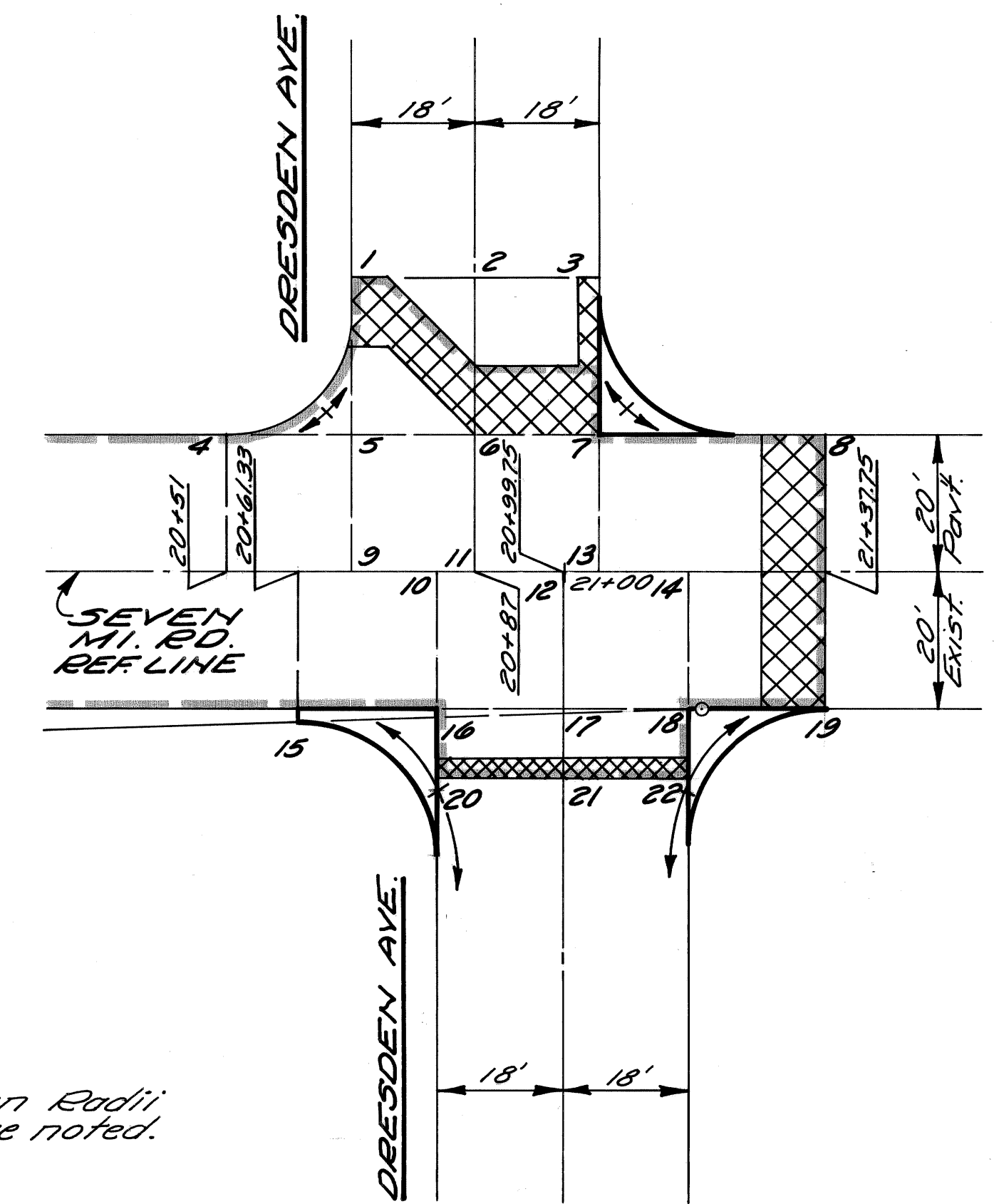
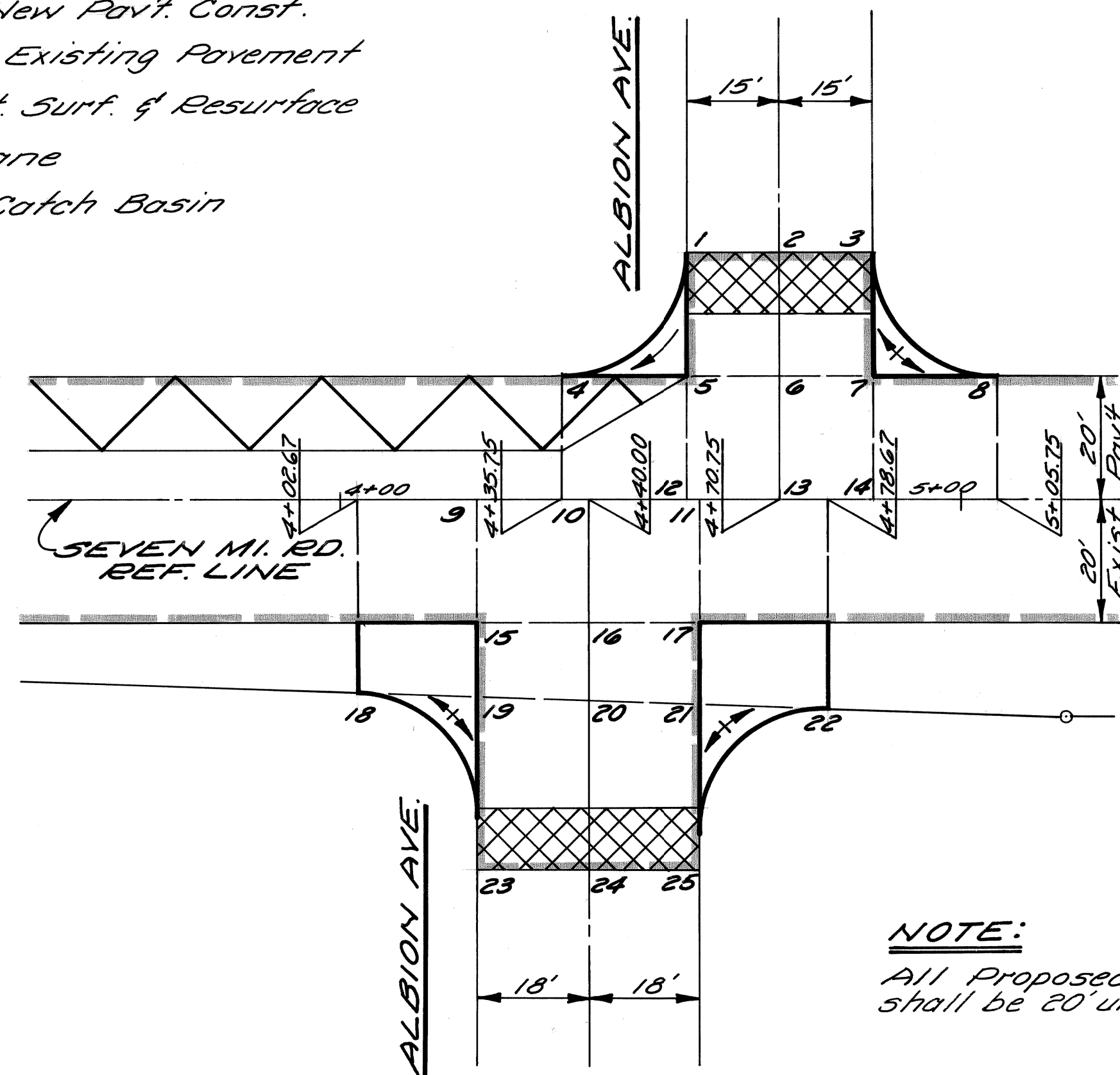
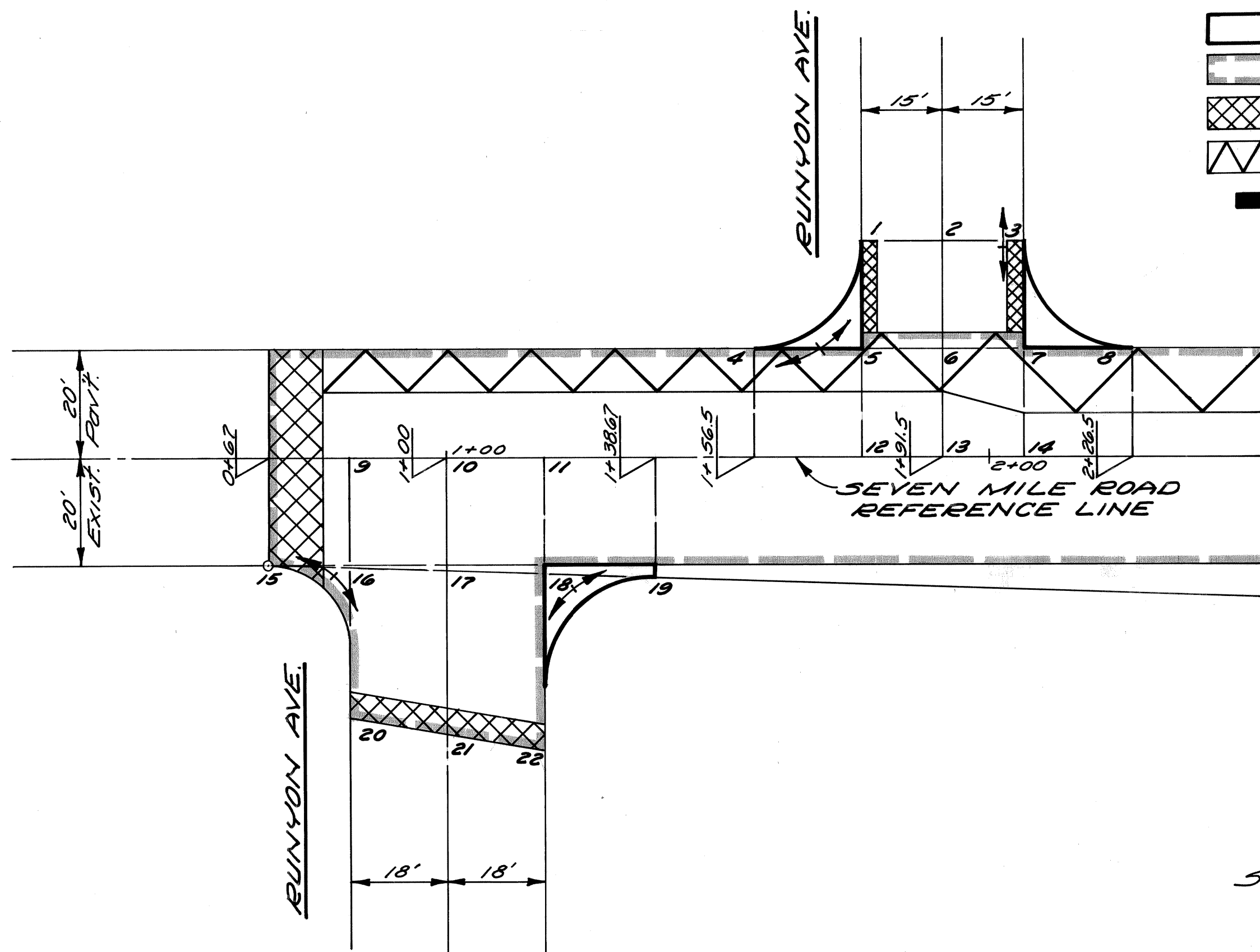
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

SEVEN MILE RD. - HOOVER AVE.
INTERSECTION IMPROVEMENT
DETAILED GRADES FOR SEVEN MILE RD. AT HOOVER AVE.

INDEX NO.	SHEET 12 OF 49 SHEETS
CONTRACT NO.	08692A
ASSIGNMENT NO.	2307
DATE	NOV. 14, 1975

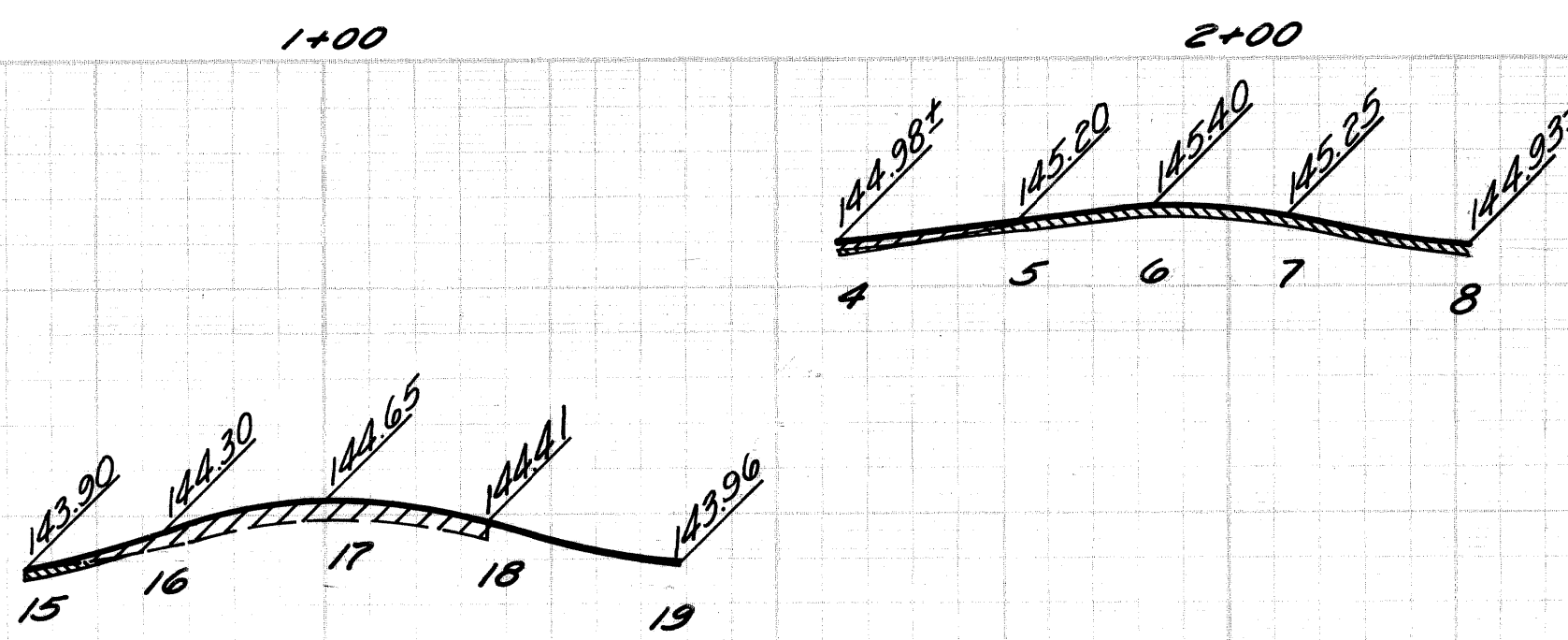
PLAN LEGEND


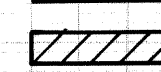
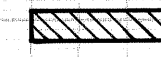

-  Limits of New Pavt. Const.
-  Resurface Existing Pavement
-  Remove Bit. Surf. & Resurface
-  Heater Plane
-  Proposed Catch Basin

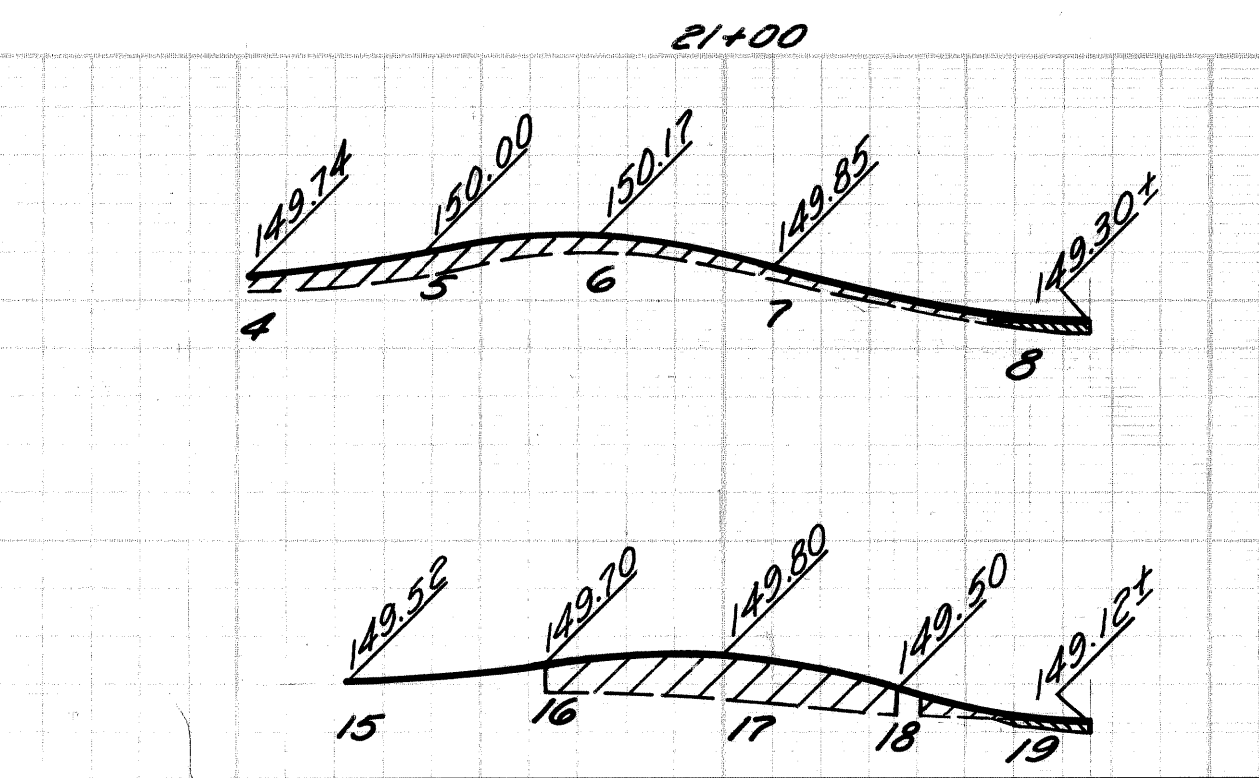
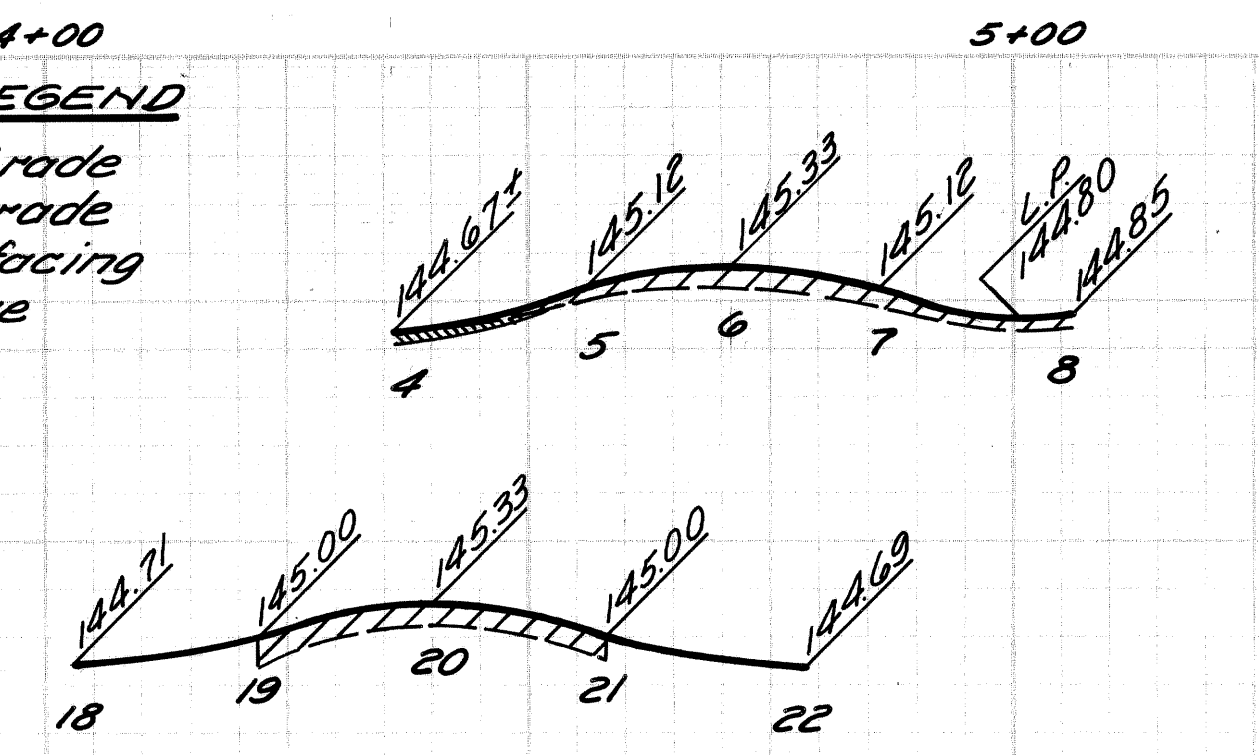


PLAN
Scale: 1" = 20'

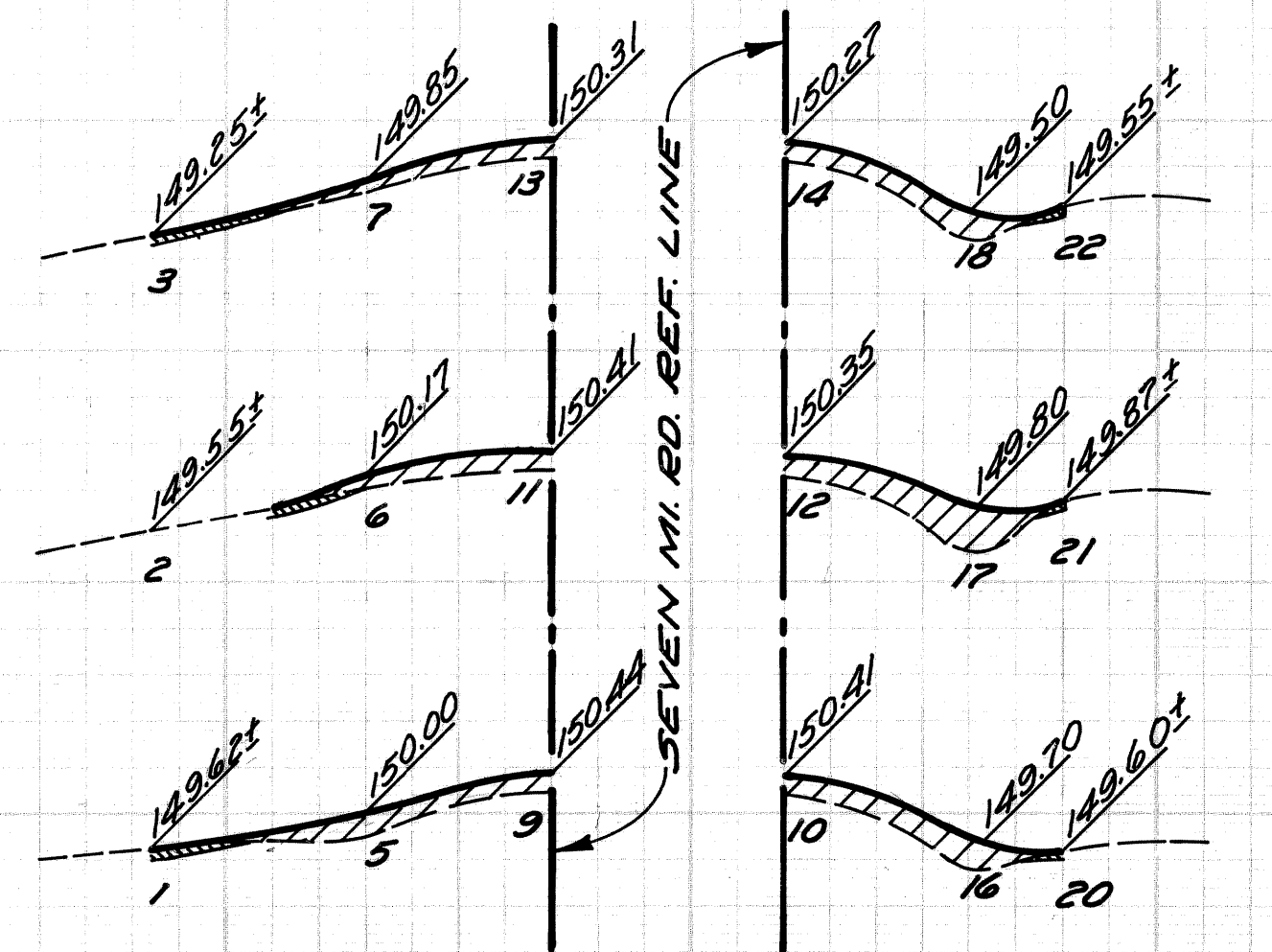
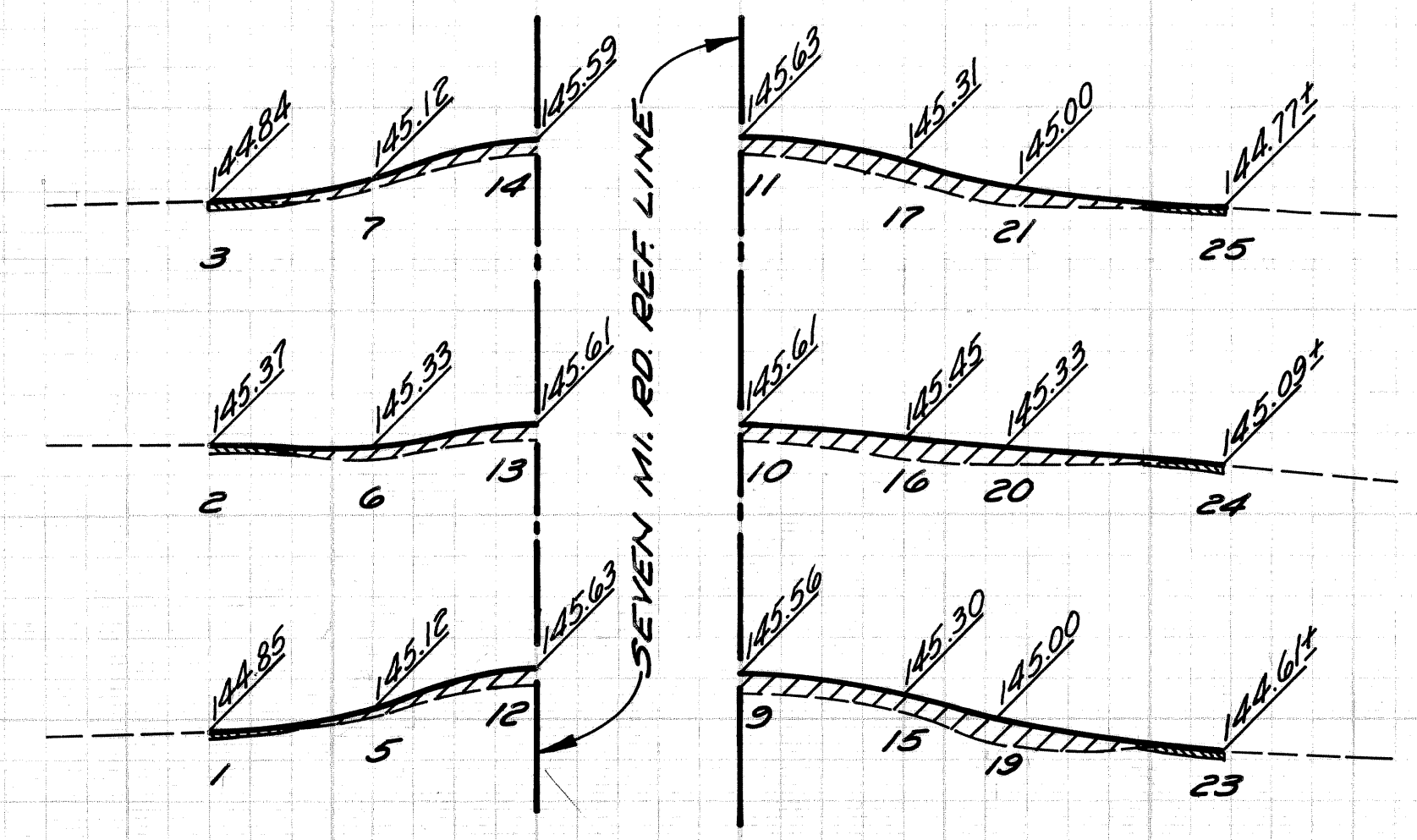
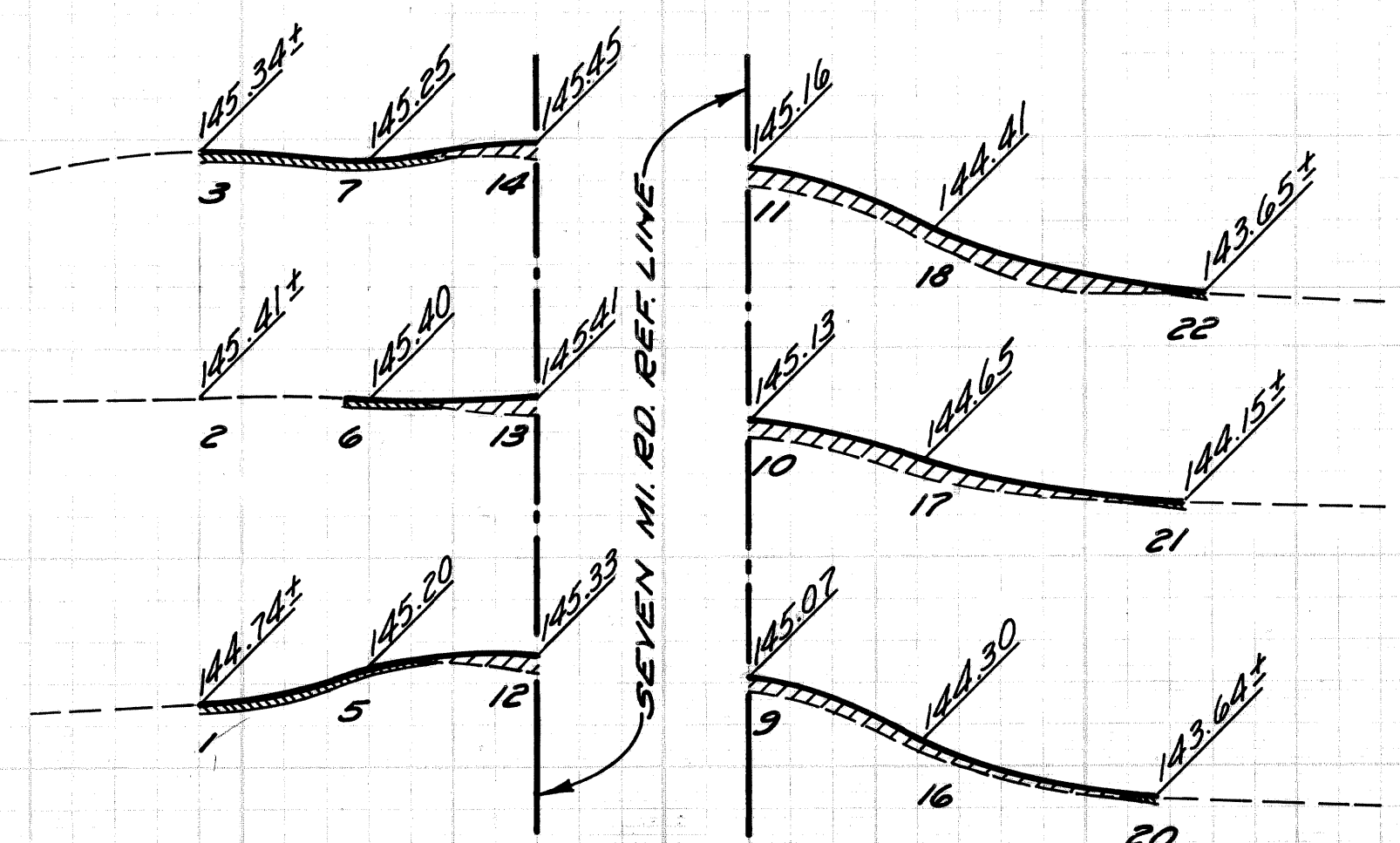
NOTE:
All Proposed Street Return Radii shall be 20' unless otherwise noted.



- PROFILE & CROSS-SECTION LEGEND**
-  Existing Pavement Grade
 -  Proposed Pavement Grade
 -  Proposed Bit. Resurfacing
 -  Removing Bit. Surface



PROFILES
Hor. 1" = 20'
Vert. 1" = 2'



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

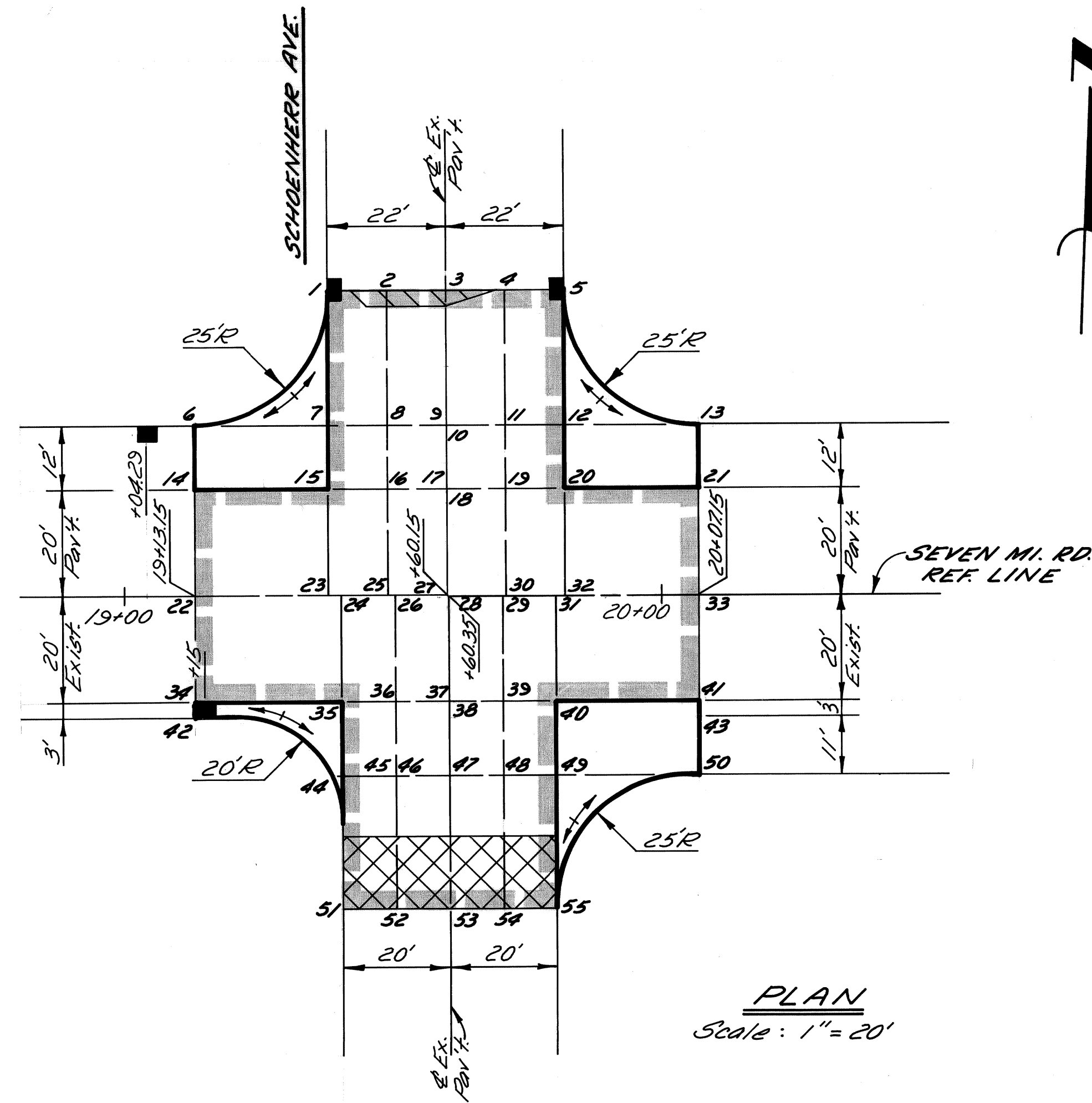
DESCRIPTION	DR	CK	AP	VD	DATE
REVISIONS					
PLAN	MAB		CHECKED BY	APPROVED:	
GRADE	I.H.K.		R.P.	ENGINEER OF STREETS	
ESTIMATE				HIGHWAY ENGINEER	
FINAL	CHECK	REVIEW			
	R.P.				

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

SEVEN MILE RD. - HOOVER AVE.
INTERSECTION IMPROVEMENT
DETAILED GRADES FOR SEVEN MILE RD. AT
RUNYON, ALBION, AND DRESDEN

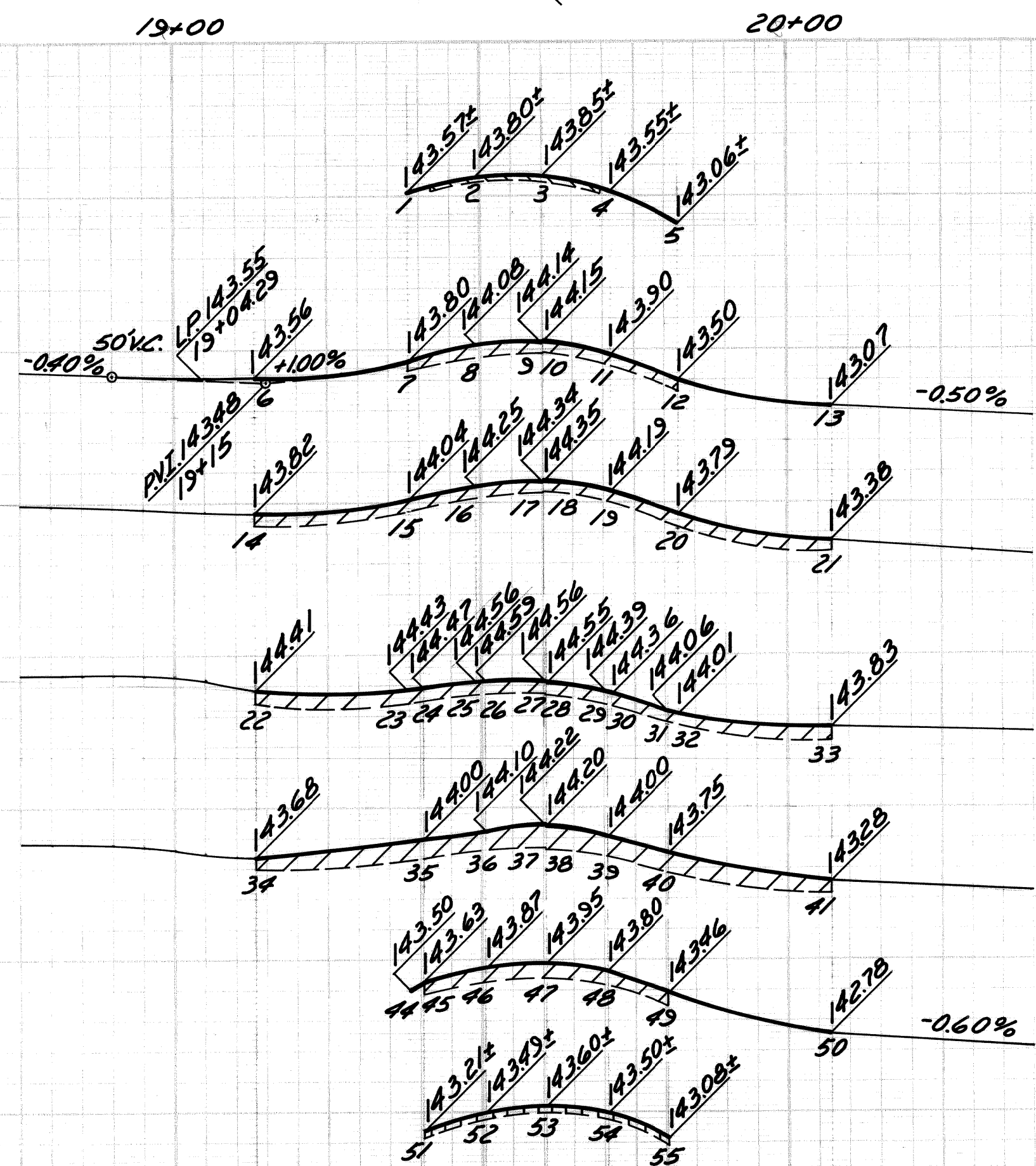
INDEX NO.	SHEET 13 OF 49 SHEETS
CONTRACT NO.	08692A
ASSIGNMENT NO.	2307
DATE	NOV. 14, 1975

C-5515



- PLAN LEGEND**
- Limits of New Pav't. Constr.
 - Resurface Existing Pav't.
 - Remove Bit. Surface & Resurface
 - Chipping Conc. Pav't. for Joints
 - Prop. Catch Basin

PLAN
Scale: 1" = 20'

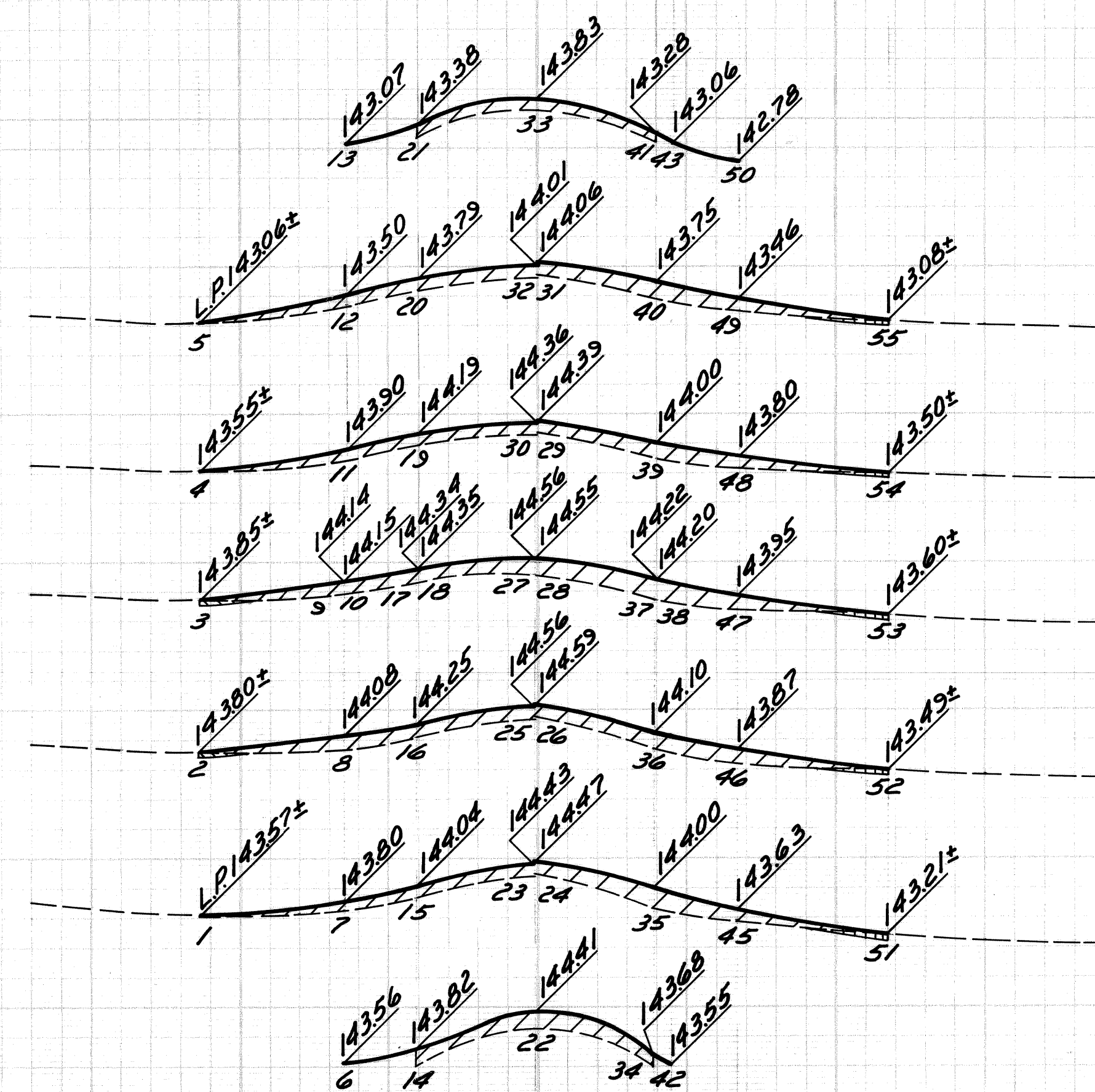


PROFILE & CROSS-SECTION LEGEND

- Existing Pavement Grade
- Proposed Pavement Grade
- Proposed Bit. Resurfacing
- Removing Bit. Surface
- Chipping Conc. Pavement for Joints

PROFILES & CROSS-SECTIONS

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



BY	J.R.D.	CHECKED BY	I.H.K.	APPROVED:	
PLAN	J.R.D.				
GRADE	J.R.D.		R.A.C.		
ESTIMATE					
DESCRIPTION	DRN	CK'D	AP'D	DATE	
REVISIONS					
CHECK	R.A.C.	REVIEW			

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

ENGINEER OF STREETS
William E. Morgan
HIGHWAY ENGINEER

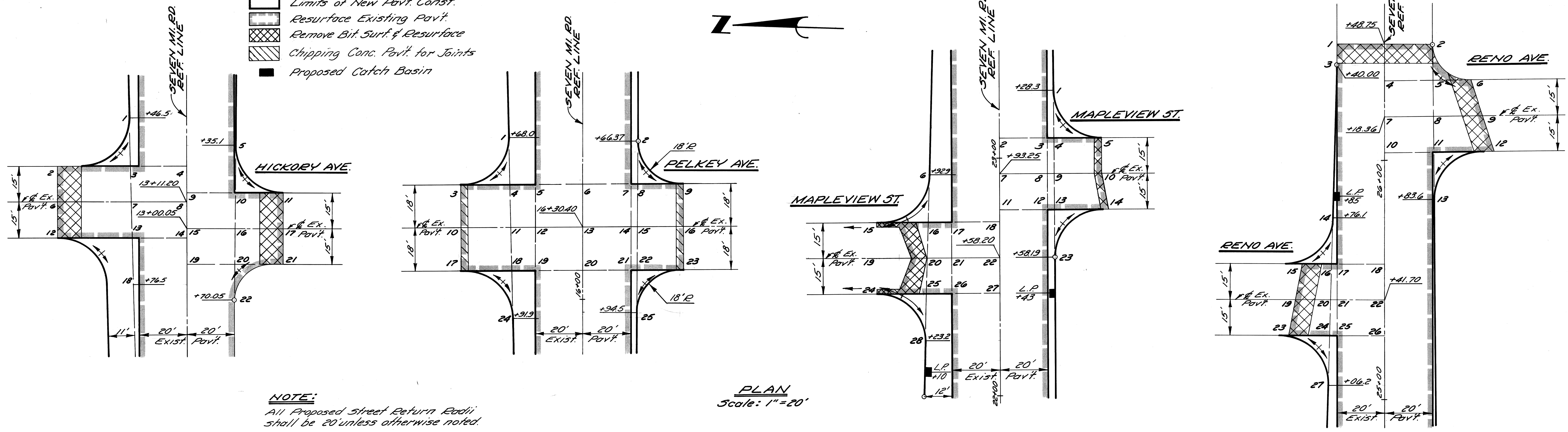
SEVEN MILE RD. - SCHOENHERR AVE.
INTERSECTION IMPROVEMENT

DETAILED GRADES FOR SEVEN MILE RD. AT SCHOENHERR AVE.

INDEX NO.	SHEET 14 OF 49 SHEETS
CONTRACT NO.	08690A
ASSIGNMENT NO.	2302
DATE	NOV. 14, 1975

PLAN LEGEND

- Limits of New Pavt. Const.
- Resurface Existing Pavt.
- Remove Bit. Surf. & Resurface
- Chipping Conc. Pavt. for Joints
- Proposed Catch Basin

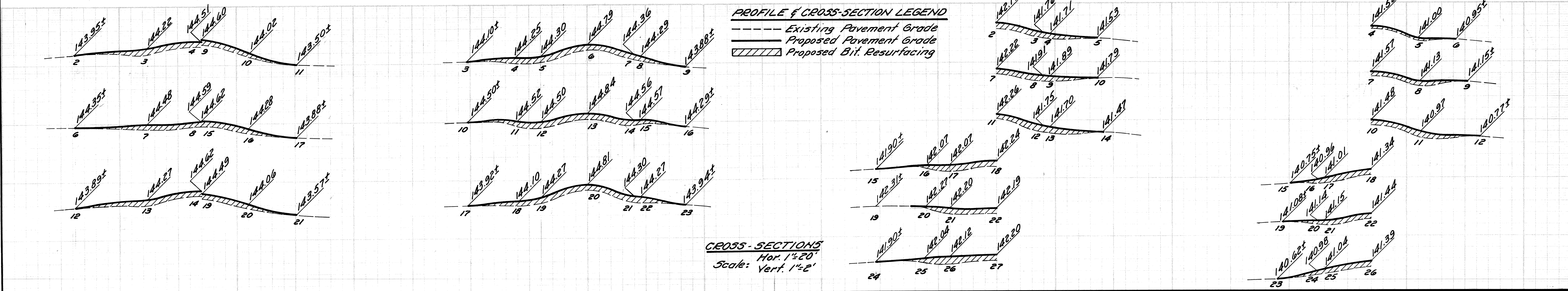


PROFILE & CROSS-SECTION LEGEND

- Existing Pavement Grade
- Proposed Pavement Grade
- Proposed Bit. Resurfacing

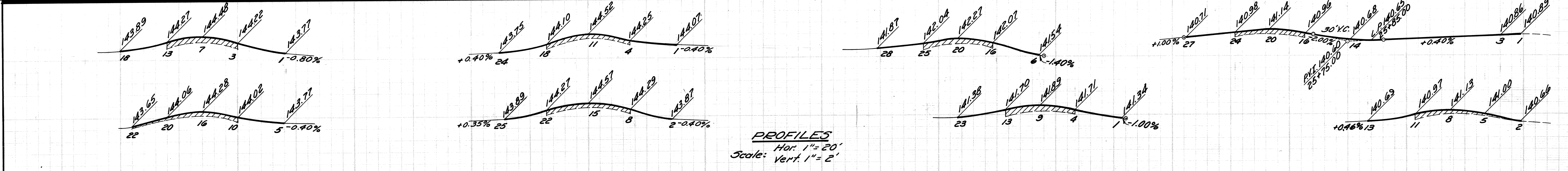
CROSS-SECTIONS

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

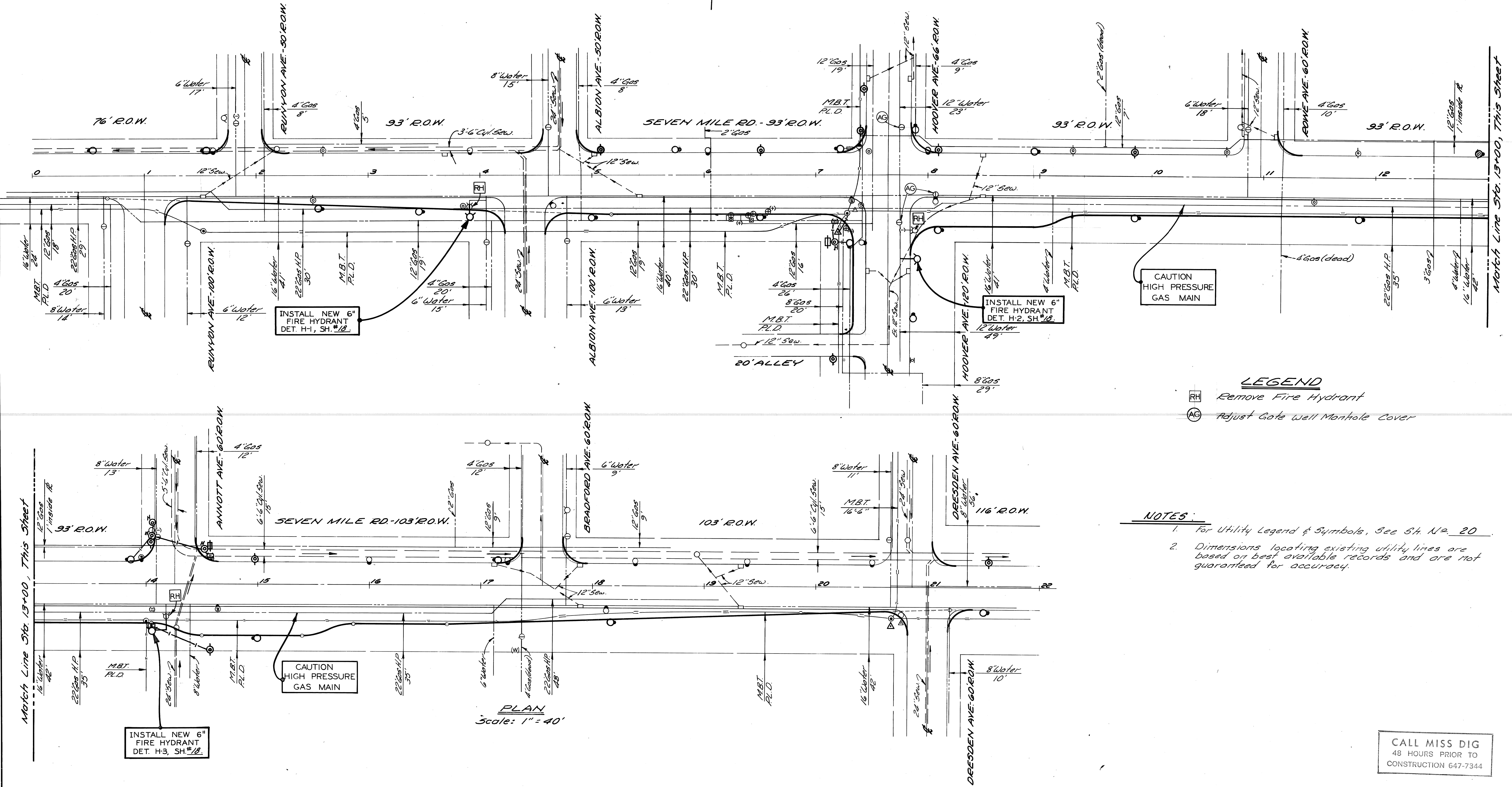


PROFILES

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



DESCRIPTION		DRN	CHK'D	AP'D	DATE	BY		CHECKED BY	APPROVED:	CITY OF DETROIT CITY ENGINEERING DEPARTMENT SEVEN MILE RD. - SCHOENHERR AVE. INTERSECTION IMPROVEMENT DETAILED GRADES FOR SEVEN MILE RD. AT HICKORY, PELKEY, MAPLEVIEW AND RENO	INDEX NO.	SHEET 15 OF 49 SHEETS
REVISIONS						PLAN	Map	R.A.C.	ENGINEER OF STREETS		CONTRACT NO.	08690A
						GRADE	R.A.C.	W.B.	HIGHWAY ENGINEER		ASSIGNMENT NO.	2302
						ESTIMATE					DATE	NOV. 14, 1975



INSTALL NEW 6" FIRE HYDRANT DET. H-1, SH. #18.

INSTALL NEW 6" FIRE HYDRANT DET. H-2, SH. #18.

CAUTION HIGH PRESSURE GAS MAIN

CAUTION HIGH PRESSURE GAS MAIN

PLAN Scale: 1" = 40'

LEGEND
 (RH) Remove Fire Hydrant
 (AS) Adjust Gate Well Manhole Cover

NOTES:
 1. For Utility Legend & Symbols, See St. No. 20
 2. Dimensions locating existing utility lines are based on best available records and are not guaranteed for accuracy.

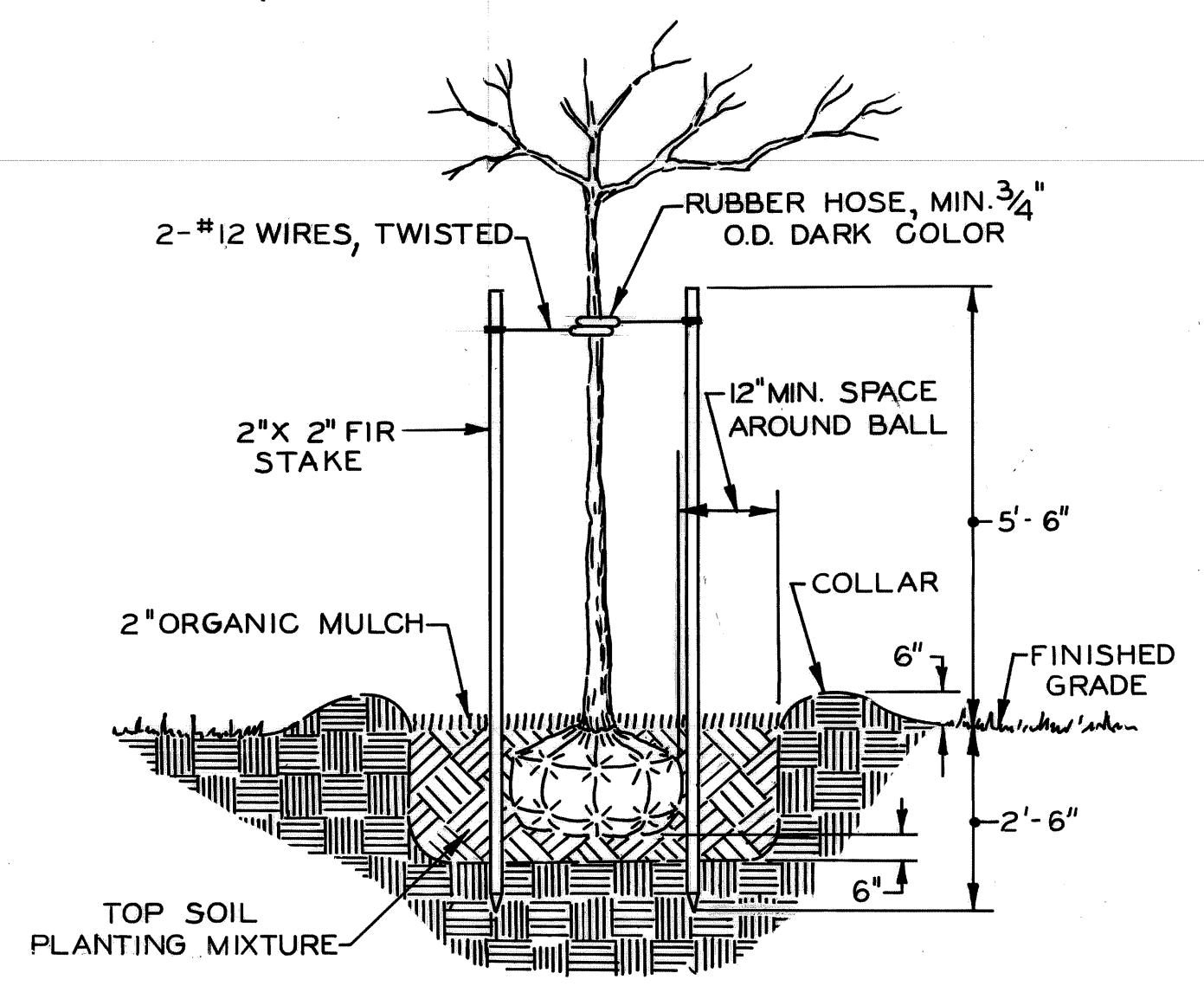
Match Line Sta. 13+00, This Sheet

Match Line Sta. 13+00, This Sheet

REVISIONS LOCATED BY COORDINATES ON SHEET COORD DESCRIPTION DWN CKD APVD DATE				DESIGNED BY DRAWN BY M.S. TRACED BY CHECKED BY I.H.K.	APPROVED: 	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	SEVEN MILE RD. - HOOVER AVE. INTERSECTION IMPROVEMENT UTILITIES	SHEET 16 OF 49 SHEETS CONTRACT No. 08692A ASSIG. NO. 2307 DATE NOV. 14, 1975
-----------------------------------------------------------------------------------------------------------	--	--	--	----------------------------------------------------------------	---------------	------------------------------------------------	-----------------------------------------------------------------------	---------------------------------------------------------------------------------------

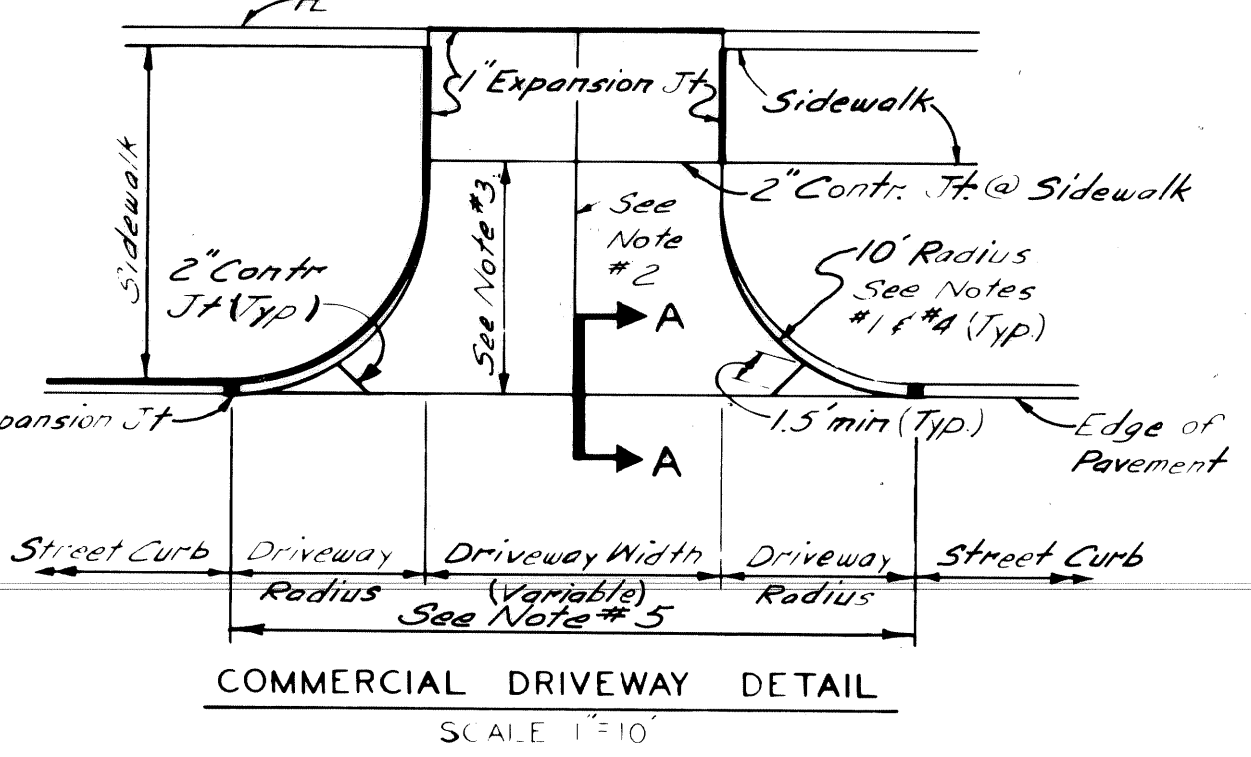
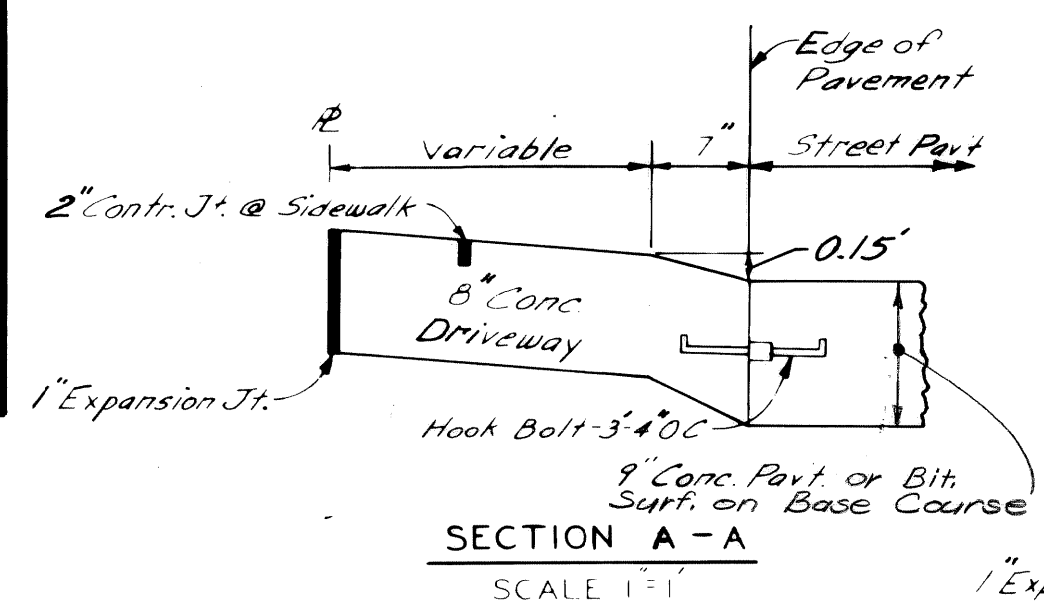
CALL MISS DIG 48 HOURS PRIOR TO CONSTRUCTION 647-7344

COLOR	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BLACK	---	PROPERTY AND LOT LINES	○	SEWER MANHOLE	#	STREET SIGN POST
	---	PROPOSED CURB LINES AND HEADERS AT RETURNS	○	PLD. HANDHOLE	□	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
	---	EXISTING LATERAL SEWERS	⊕	WESTERN UNION MANHOLE	(+)	GAS SHUT-OFF
	---	EXISTING PUBLIC SEWERS	⊕	MICHIGAN BELL MANHOLE	⊕	GAS DRIP
	---	EXISTING GAS LINES	⊕	EDISON STEAM MANHOLE	⊕	DRAIN OR VENT
	---	EXISTING WATER LINES	⊕	EDISON ELECTRIC MANHOLE	⊕	GUY POLE
	---	PROPOSED C.B. M.H. & INLET SEWERS ON INTERSECTING STREETS	⊕	FIRE DEPT MANHOLE	⊕	MAIL BOX
	---	EXISTING C.B. M.H. & INLET SEWERS	⊕	POLICE DEPT MANHOLE	⊕	AREAWAY OR COAL CHUTE
	---	PROPOSED C.B. M.H. & INLET SEWERS ON INTERSECTING STREETS	⊕	D.S.R. MANHOLE	⊕	FLAG POLE
	---		⊕	FIRE DEPT STANDARD HYDRANT	⊕	SPRINKLER BOX
	---		⊕	FIRE DEPT HIGH PRESSURE HYDRANT	⊕	DEAD MANHOLE
	---		⊕	FIRE DEPT CALL BOX	⊕	TREE
	---		⊕	FIRE DEPT HIGH PRESSURE MANHOLE	⊕	PLD. FD MANHOLE FILLED WITH SAND
	---		⊕	POLICE DEPT CALL BOX	⊕	TRACK DRAIN
	---		⊕	PLD. LIGHT POLE	⊕	TRAFFIC SIGN POST
	---		⊕	PLD. POLE	⊕	TRAFFIC SIGNAL LIGHT
	---		⊕	TELEPHONE POLE	⊕	TRAFFIC SIGNAL ON LIGHT POST
	---		⊕	EDISON POLE	⊕	D.S.R. DANGER PLATE
	---		⊕	TRAFFIC CONTROL BOX	⊕	R.R. SIGNAL CONTROL BOX
	---		---	DETROIT EDISON ELECTRIC CONDUIT	---	
	---		---	DETROIT EDISON STEAM CONDUIT	---	
	---		---	WESTERN UNION DUCTS	---	
	---		---	MICHIGAN BELL TELEPHONE DUCTS	---	
	---		---	PLD. CONDUITS	---	
	---		---	DETROIT FIRE OR POLICE DEPT CONDUITS (PLD. COMMUNICATIONS)	---	

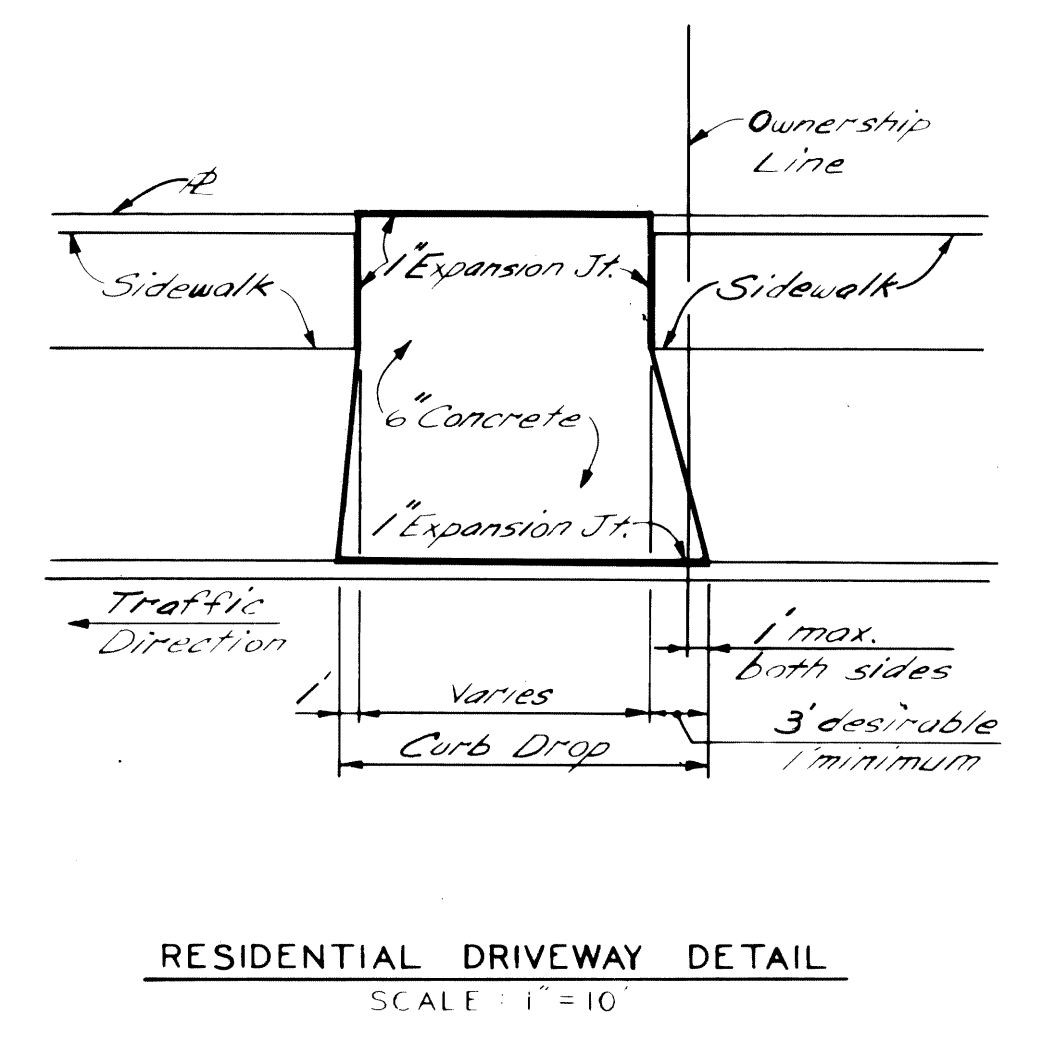


DESIGNED BY	APPROVED BY
DRAWN BY T. KANDU	J. P. HARRIS
TRACED BY T. K.	
CHECKED BY M. KAWIGS	

CITY OF DETROIT		STANDARD SYMBOLS FOR UTILITIES	
DEPARTMENT OF PUBLIC WORKS		CITY ENGINEER'S OFFICE	
BUREAU OF DESIGN		PAVING	
DETAIL NO. 25		SCALE: NO SCALE	
BUILDING NO.	SCALE	NO. SCALE	DWG. NO. C-902-A
PROP. NO.	DATE	11/1/75	



- NOTES - COMMERCIAL DRIVEWAY
1. Transition edge of driveway from curb at the street to no curb at the end of the driveway radius.
 2. Where driveway exceeds 15' in width, a contraction joint shall be placed longitudinally along $\frac{L}{2}$.
 3. When distance exceeds 15', a transverse contraction joint will be required.
 4. Radius 10' unless otherwise directed by the Engineer, or as shown on plans.
 5. All work and materials required to construct the driveway between the end of returns will be paid for as "Driveway" of the specified thickness.



REVISIONS LOCATED BY COORDINATES ON SHEET

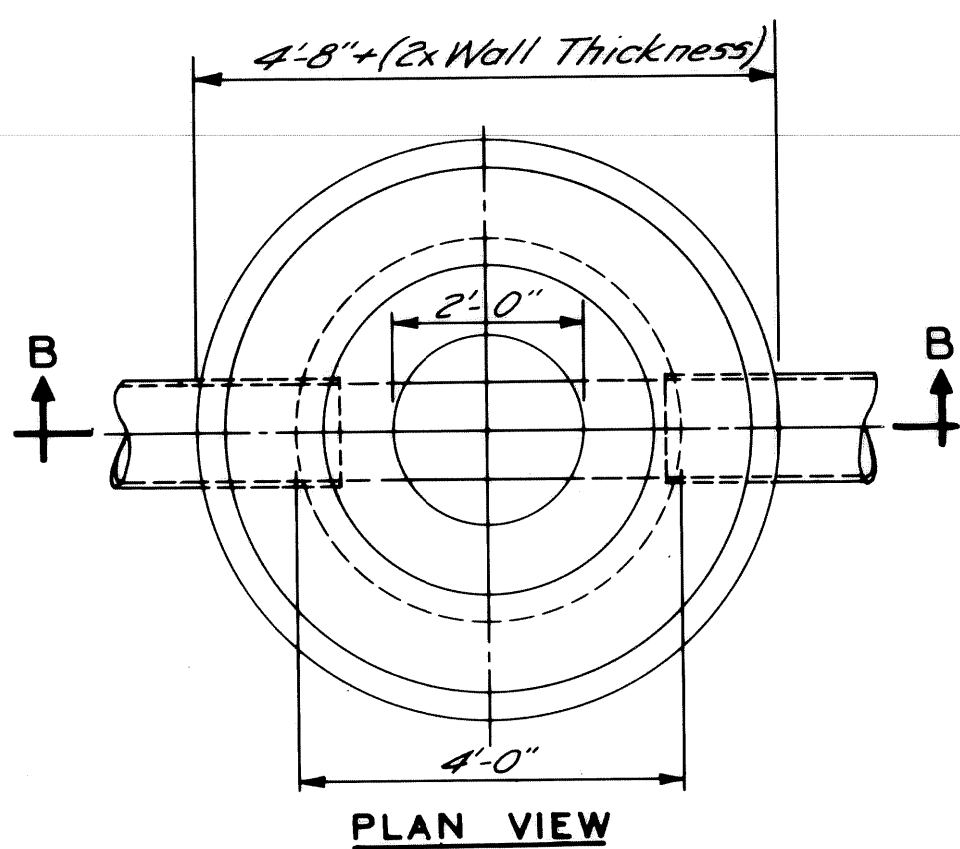
DESIGNED BY	APPROVED BY
J.R.D.	J.P.H.
DRAWN BY	ENGINEER OF EXPRESSWAYS
TRACED BY	
CHECKED BY	
NBA	

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

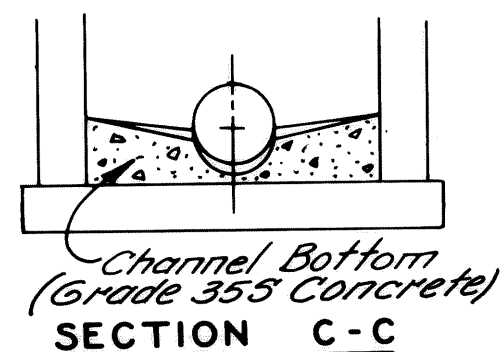
HOOVER - SEVEN MILE AND SCHOENHERR - SEVEN MILE
INTERSECTION IMPROVEMENTS
SPECIAL STANDARDS & SPECIAL DETAILS

SHEET 20 OF 49 SHEETS
CONTRACT 08692A
No. 08690A
ASSIGNMENT 2307
No. A.O. 2302
DATE NOV. 14, 1975

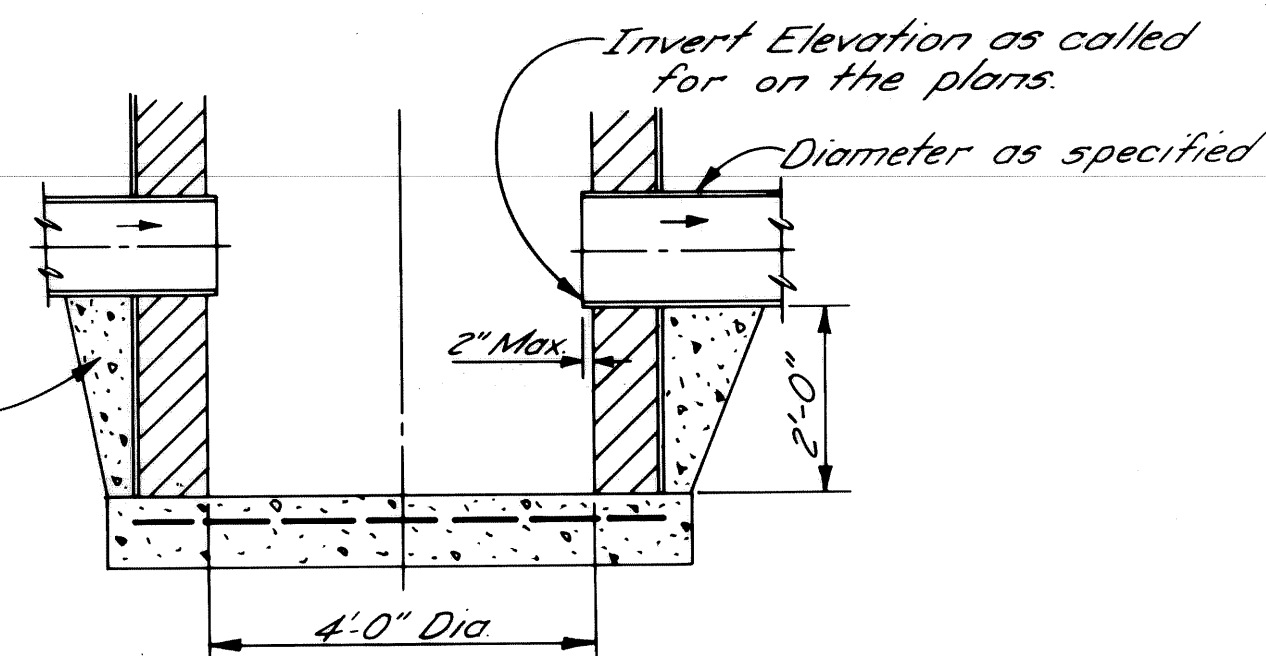
C-5575



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

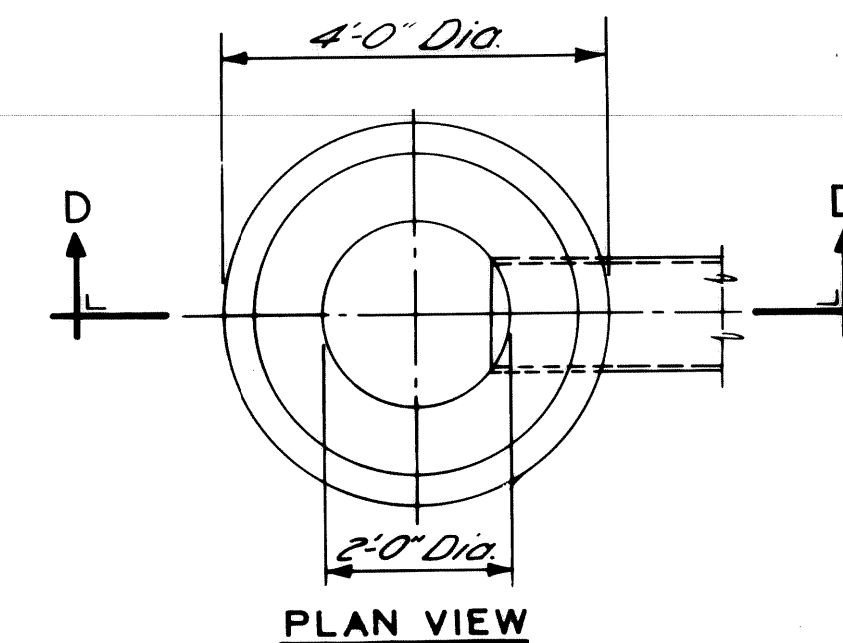


Grade 30M Conc. to Support Pipe

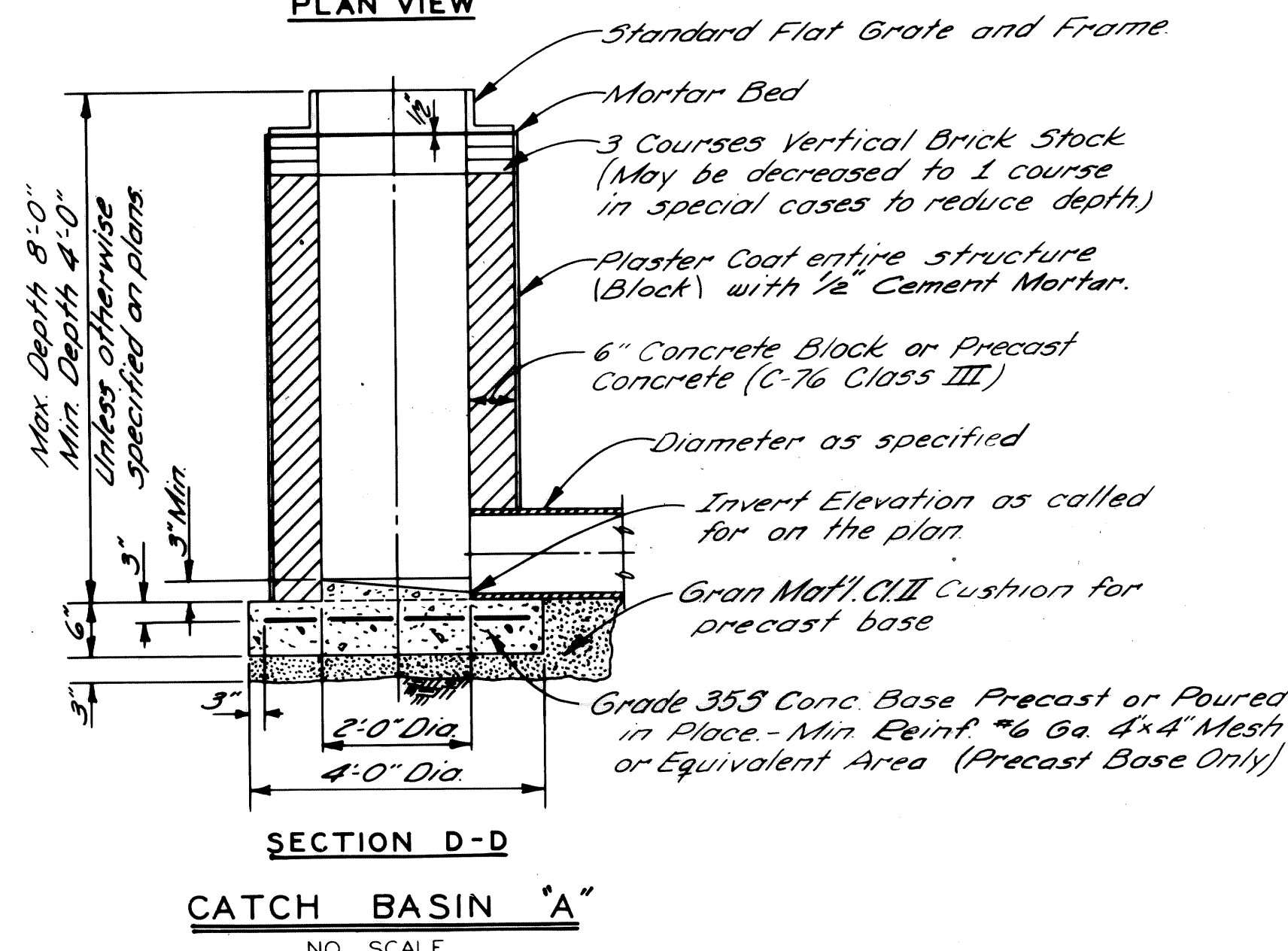


DETAIL OF SUMP FOR CATCH BASIN "B"

NO SCALE

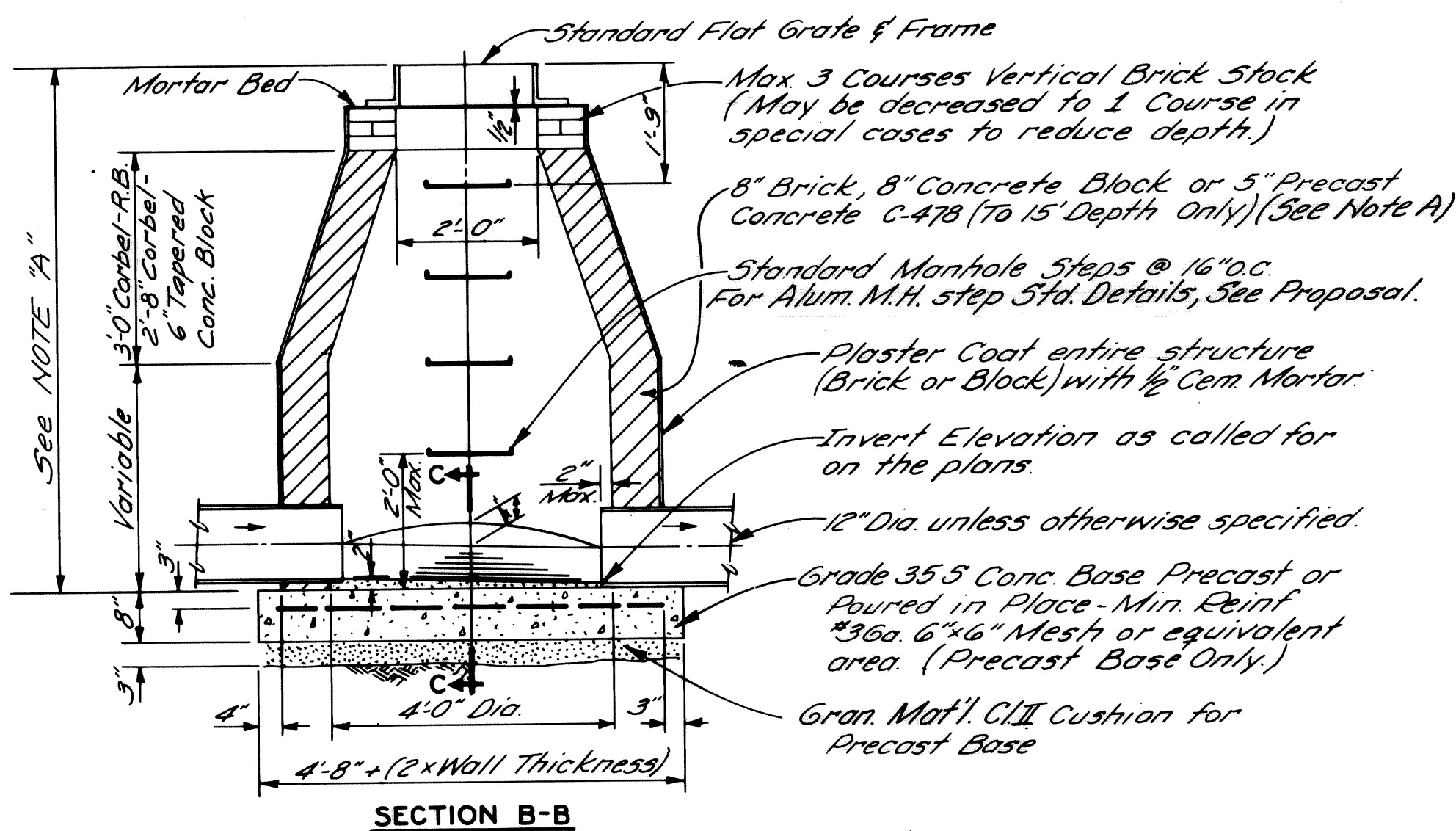


NOTE:
Catch Basin "A" will be used only when outletting to a Catch Basin "B"



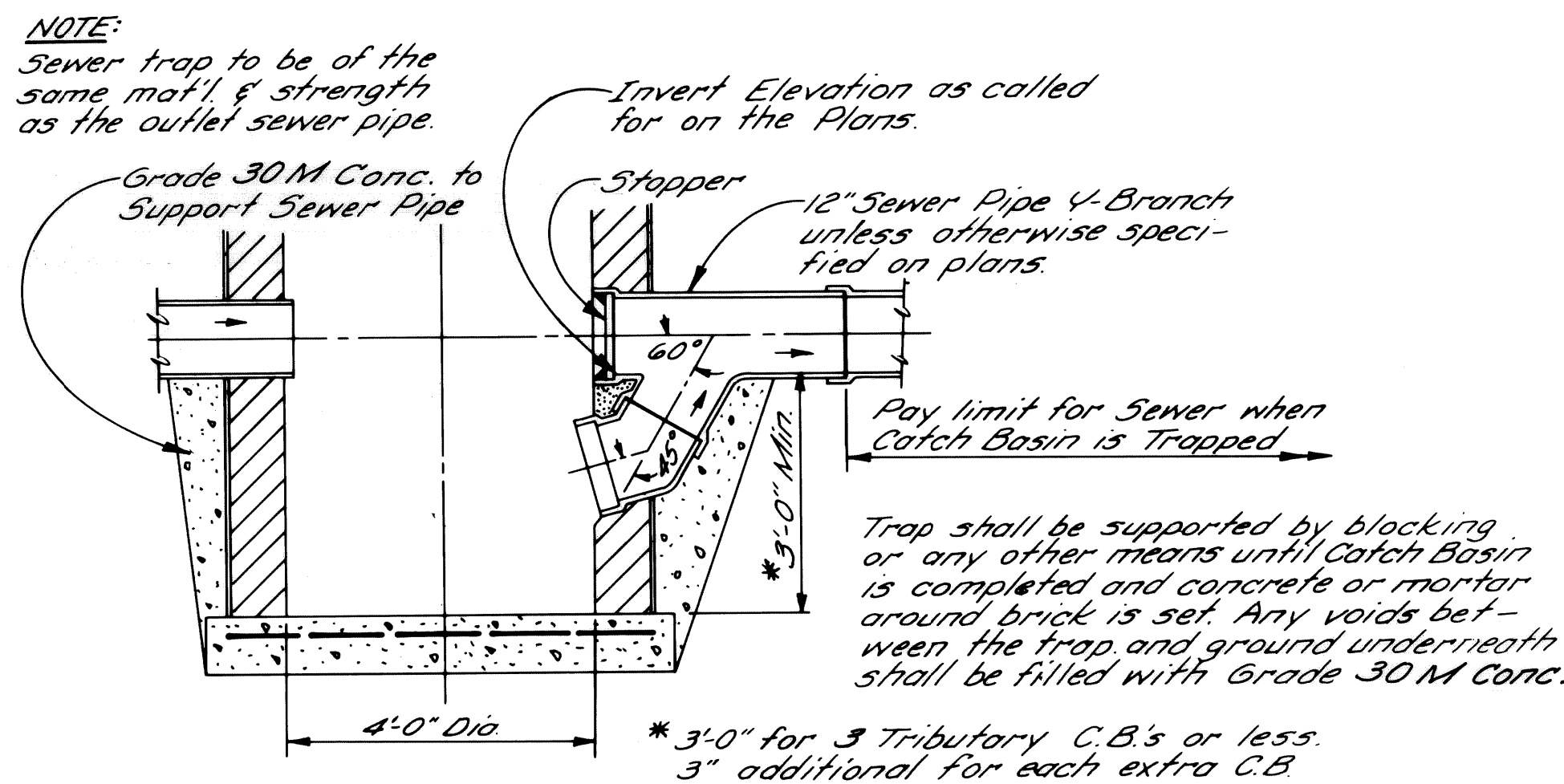
CATCH BASIN "A"

NO SCALE



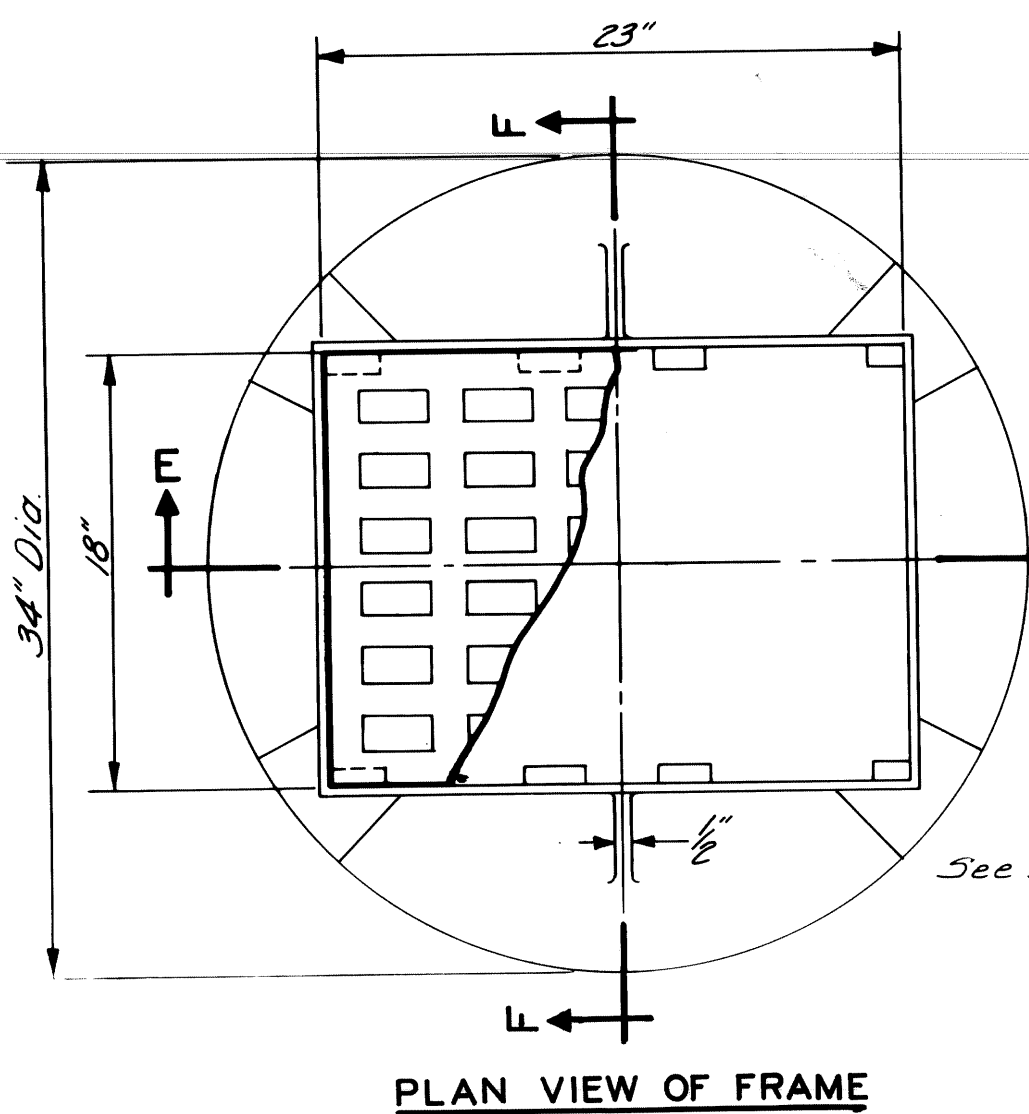
CATCH BASIN "B"

NO SCALE

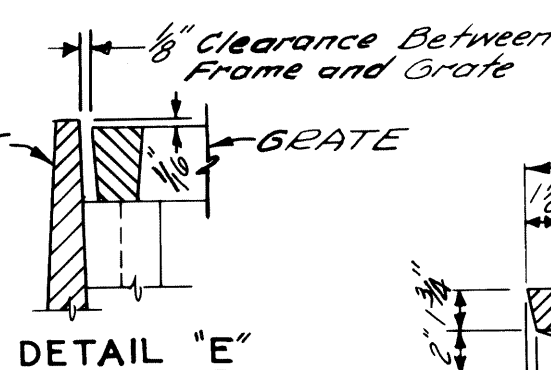
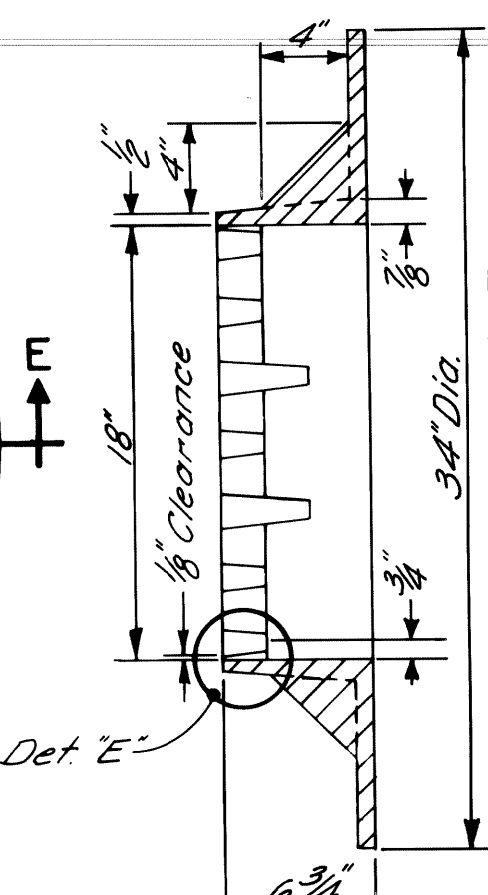


DETAIL OF TRAP FOR CATCH BASIN "B"

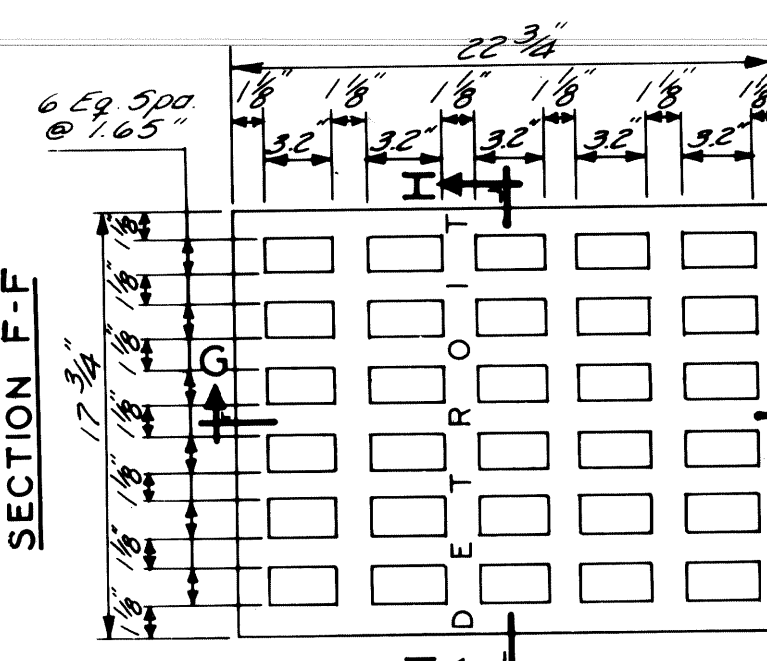
NO SCALE



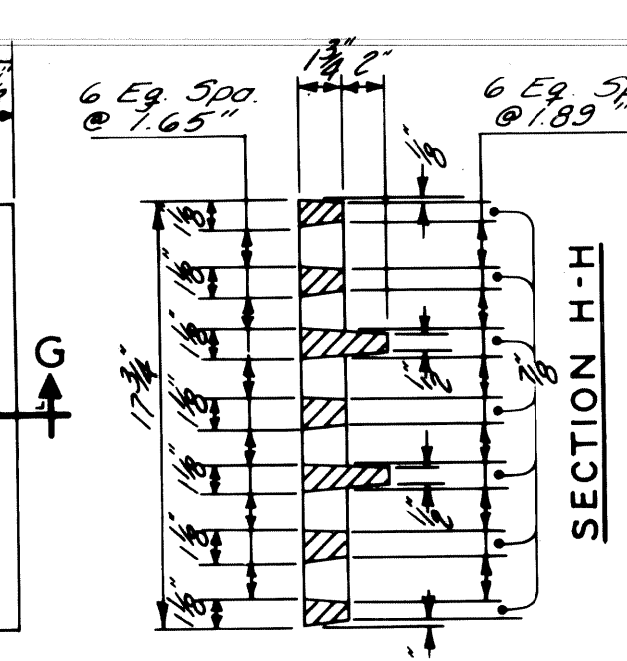
PLAN VIEW OF FRAME



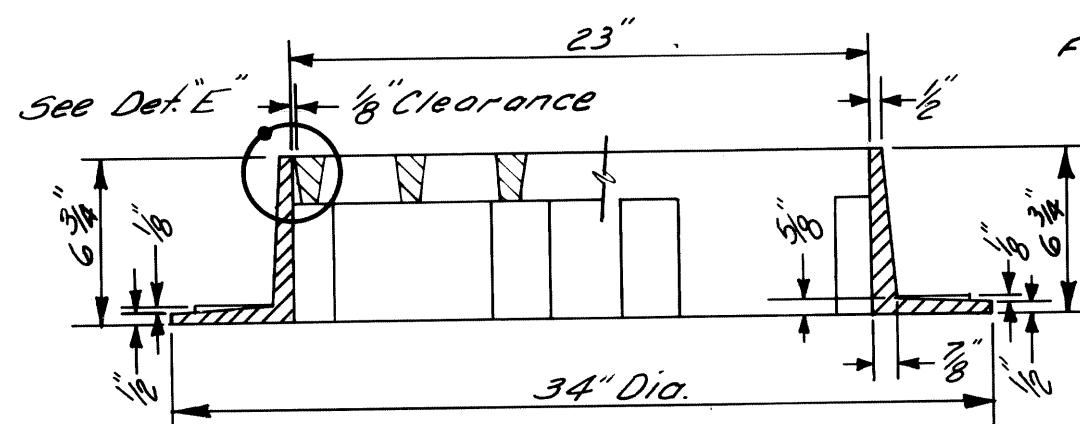
DETAIL "E"



PLAN VIEW OF GRATE



SECTION G-G



SECTION E-E

STANDARD FLAT GRATE AND FRAME

NO SCALE

GENERAL NOTES

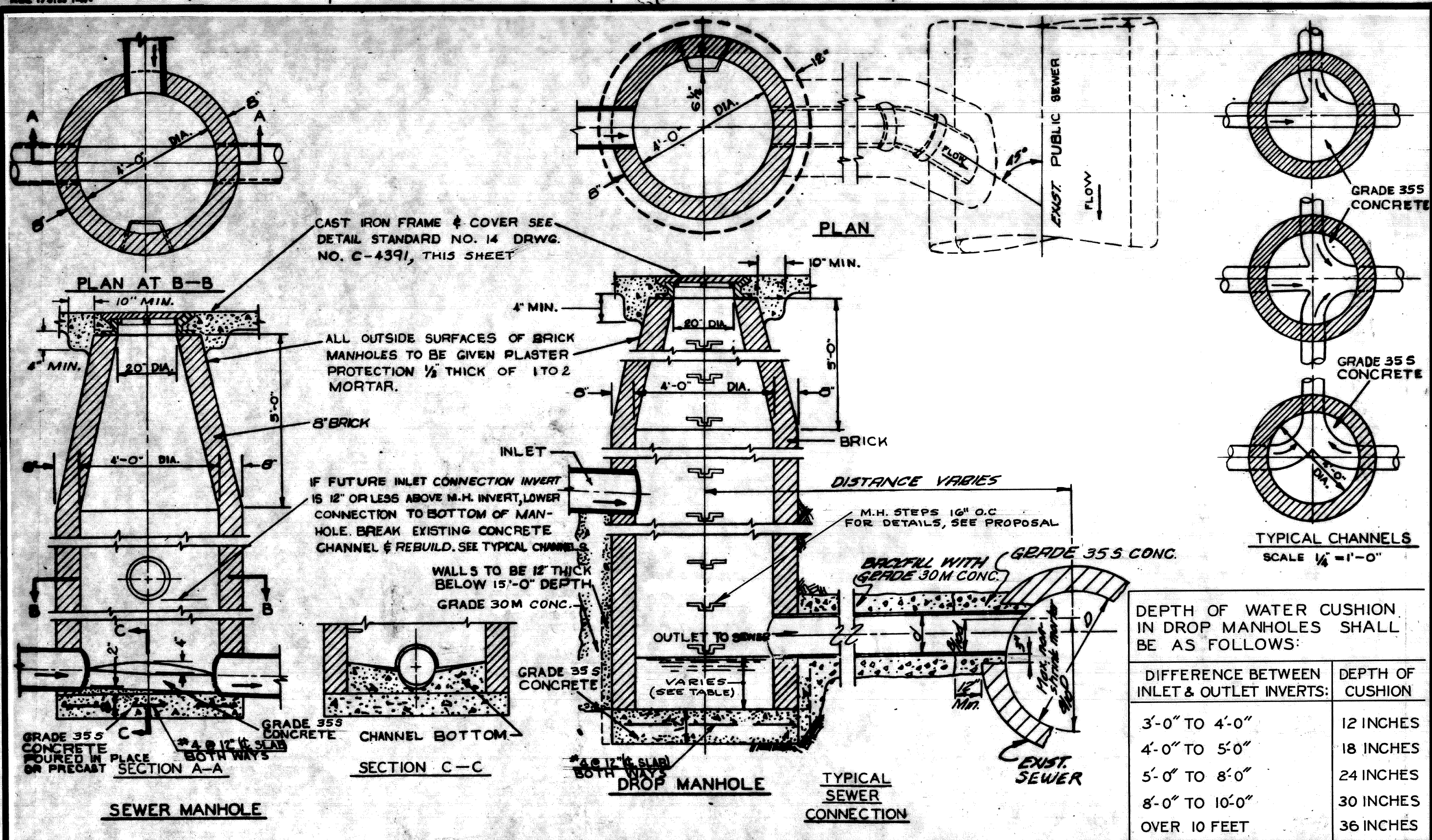
- The materials & workmanship shall be in accordance with the current Standard Specifications.
- Center of Catch Basin shall be 20 inches from back of curb.
- All sizes & flow lines of pipe, and elevations for top & bottom of structures shall be determined from the plans or construction requirements.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

DESIGNED BY	M. POLITO	APPROVED	John Erickson ENGINEER OF STREETS
DRAWN BY			W. J. Ferguson ENGINEER OF EXPRESSWAYS
TRACED BY			W. B. Bannard HEAD CIVIL ENGINEER
CHECKED BY	D. MILZ		

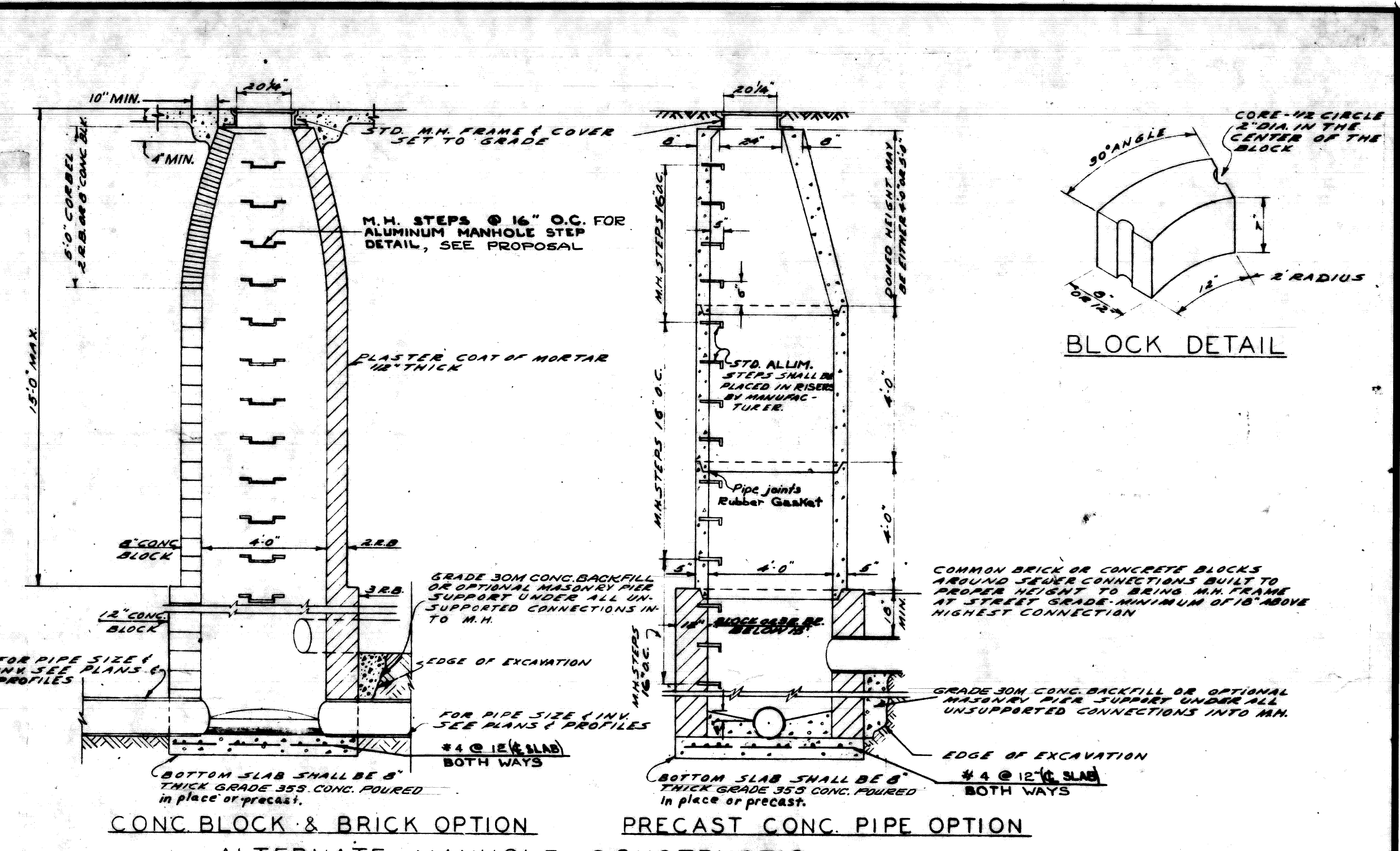
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

SEVEN MI. RD. - HOOVER & SCHOENHERR INTERSECTION IMPROVEMENTS
DETAILS OF STANDARD
CATCH BASINS "A" & "B"
AND FLAT GRATE & FRAME

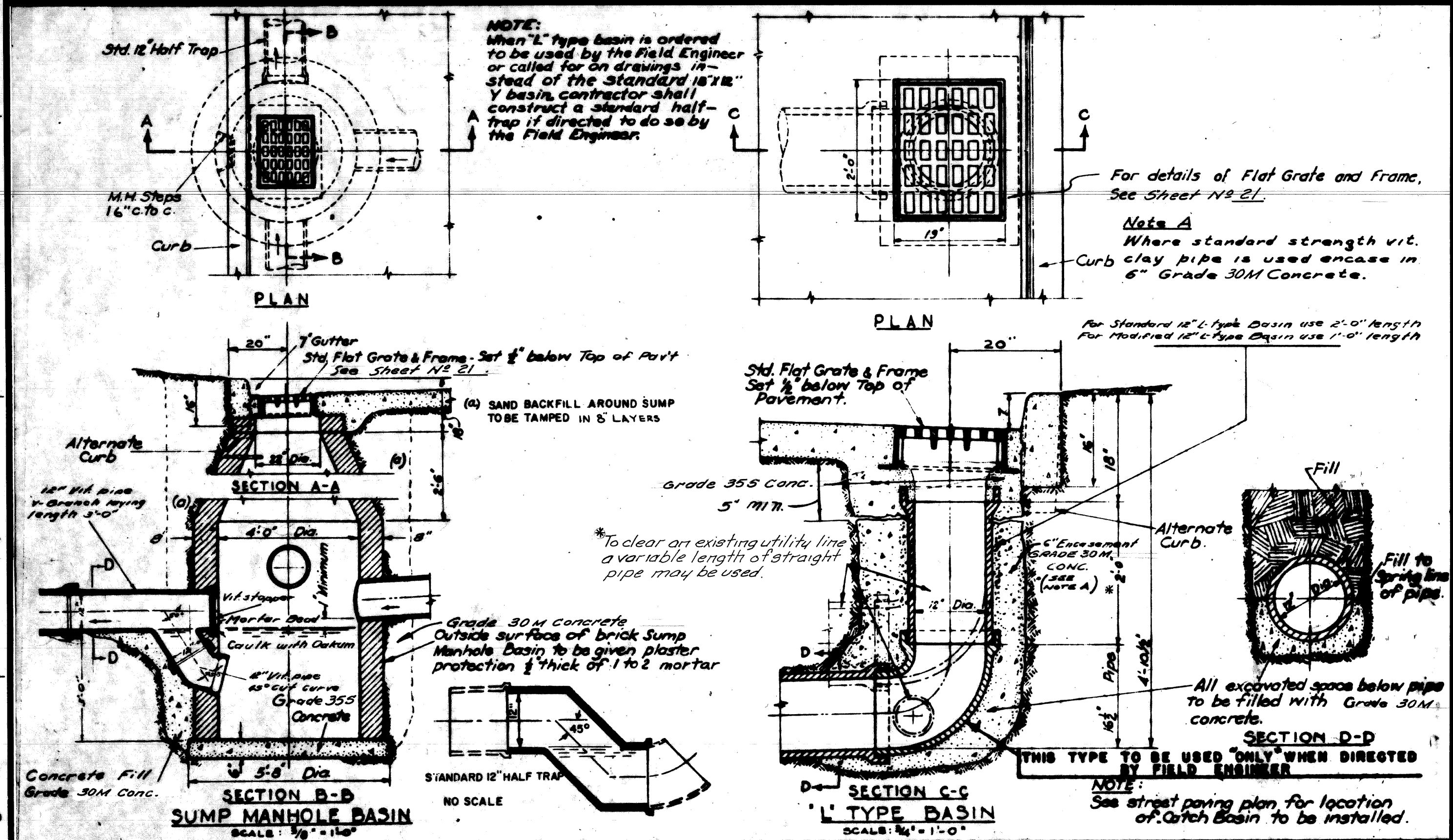
SHEET 21 OF 49 SHEETS
CONTRACT 08692A
No. 08690A
ASSIGN. 2307
NO. 2302
DATE NOV. 14, 1975



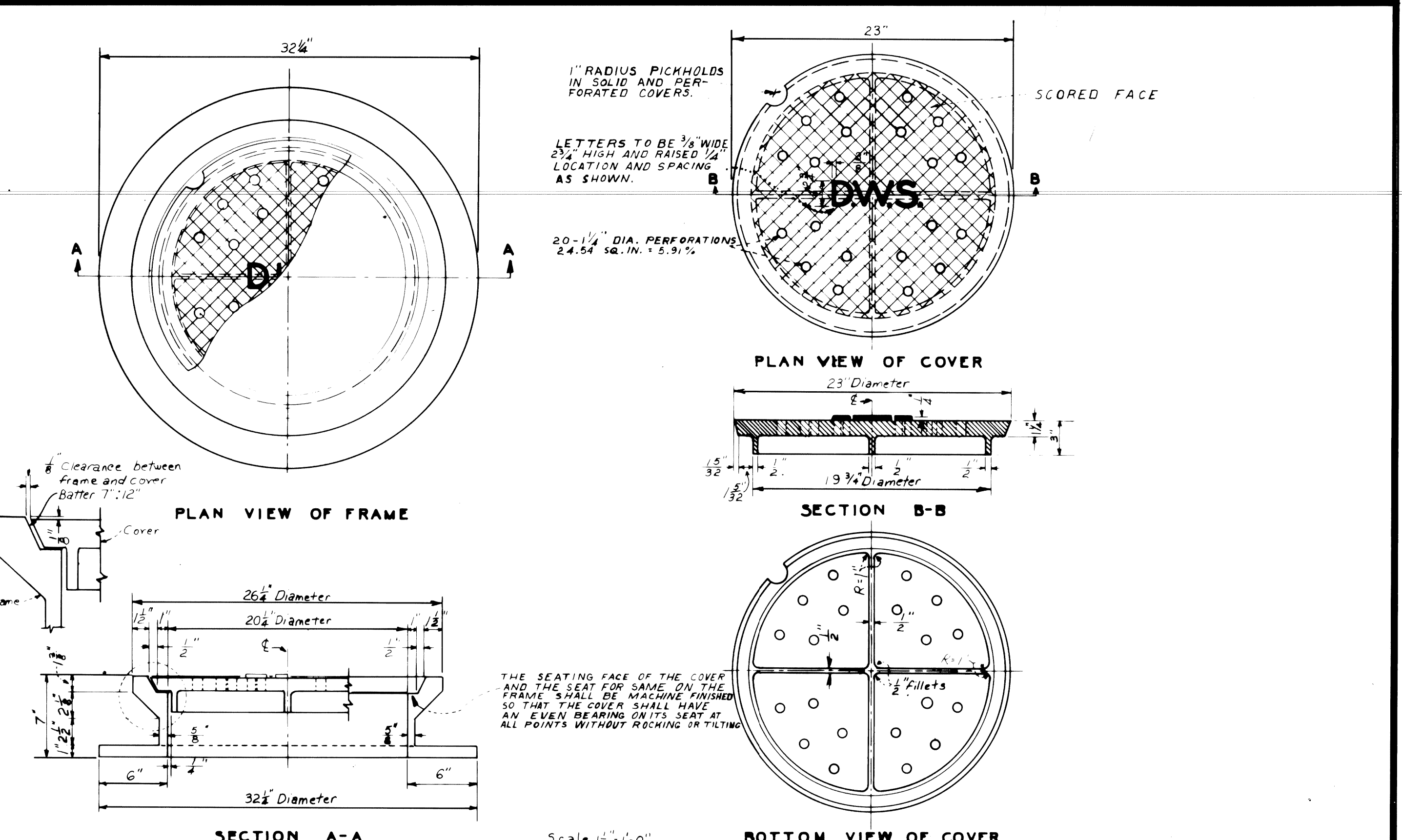
DESIGNED BY	APPROVED	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN BY	ENGINEER OF STREETS	
TRACED BY	ASST. CITY ENGINEER	DETAILS OF STANDARD SEWER & DROP MANHOLES
CHECKED BY	CITY ENGINEER	
BOOK NO.	PG.	SCALE 3/8" = 1'-0" DATE: 8-27-66
1971 1970 1969 1968 1967		



DESIGNED BY	APPROVED	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN BY	ENGINEER OF STREETS	
TRACED BY	ASST. CITY ENGINEER	STD. SEWER MANHOLES CONSTRUCTION ALTERNATES
CHECKED BY	CITY ENGINEER	
BOOK NO.	PG.	SCALE NONE DATE: 5-25-63
1971 1970 1969 1968 1967		



DESIGNED BY	APPROVED	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN BY	ENGINEER OF STREETS	
TRACED BY	ASST. CITY ENGINEER	TYPICAL SUMP MANHOLE & L TYPE CATCH BASINS
CHECKED BY	CITY ENGINEER	
BOOK NO.	PG.	SCALE 3/8" = 1'-0" DATE: 10-14-66
1971 1970 1969 1968 1967		



DESIGNED BY	APPROVED	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF DESIGN
DRAWN BY	ENGINEER OF STREETS	
TRACED BY	ASST. CITY ENGINEER	DETAILS OF STANDARD - MANHOLE FRAME AND COVER -
CHECKED BY	CITY ENGINEER	
BOOK NO.	PG.	SCALE: AS SHOWN DATE: OCTOBER 14, 1966
1971 1970 1969 1968 1967		

CITY OF DETROIT CITY ENGINEERING DEPARTMENT		SEVEN MILE - HOOVER AND SCHOENHERR INTERSECTION IMPROVEMENTS DRAINAGE DETAILS		SHEET 22 OF 49 SHEETS CONTRACT NO. 08692A ASSIGN NO. AO 2307 DATE NOV. 14, 1975
------------------------------------------------	--	-------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------

