

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

PLANS FOR PROPOSED

JEFFERSON - CONNER

INDUSTRIAL REVITALIZATION PROJECT

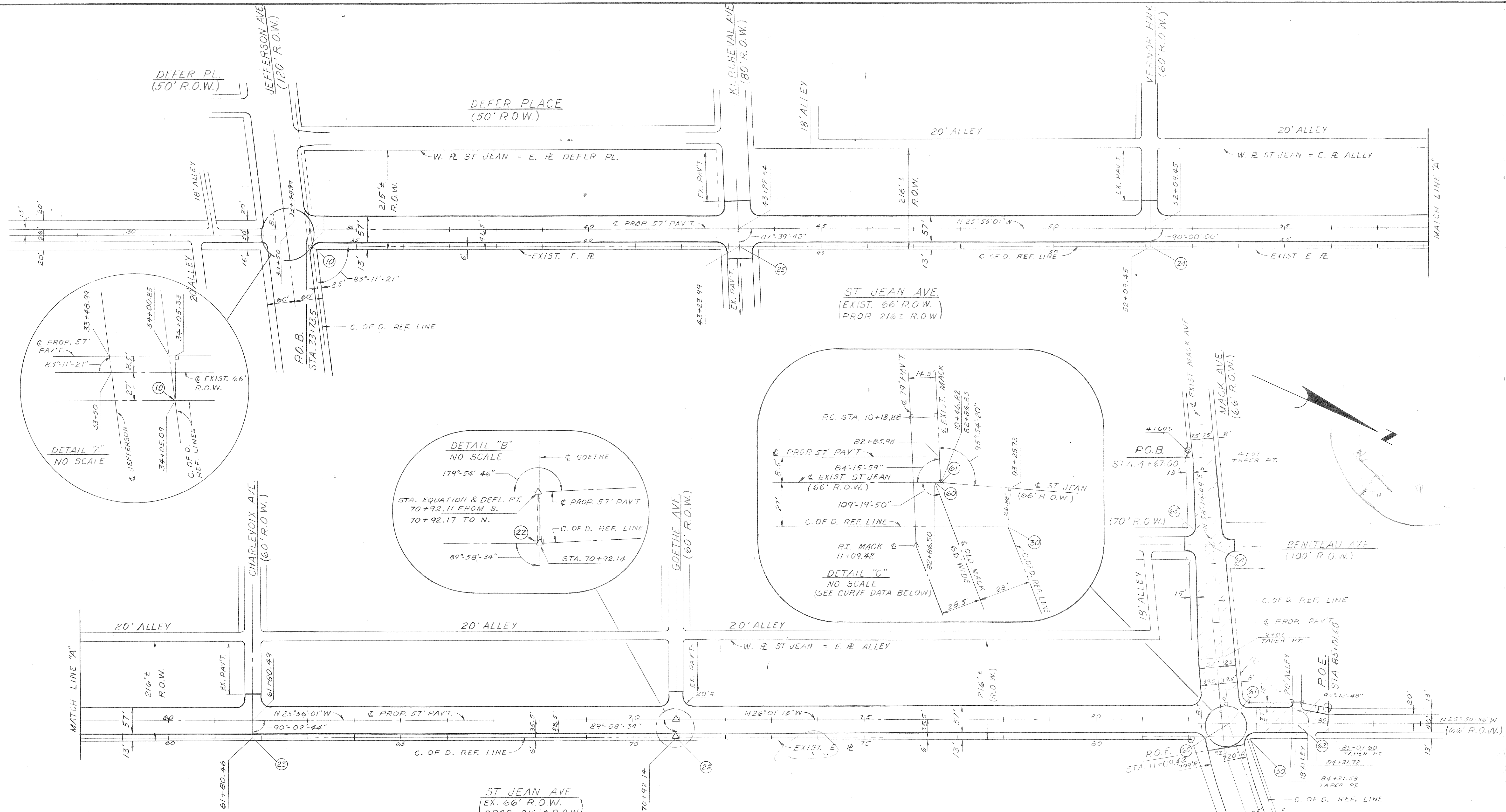
ST. JEAN AVE. RECONSTRUCTION — JEFFERSON TO N. OF MACK

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<b>PROJECT:</b> JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION	<b>CONTRACT NO.</b> _____
<b>PLANS PREPARED BY</b> CONSULTING ENGINEERING ASSOCIATES, INC.	
RECOMMENDED FOR APPROVAL ENGINEER OF INSPECTION	_____ DATE _____
RECOMMENDED FOR APPROVAL ENGINEER OF STREETS	_____ DATE _____
APPROVED	_____ DATE _____
APPROVED DIRECTOR	_____ DATE _____
<b>DATE</b> JUNE 8, 1987	<b>DRWG. NO</b> 1



**PLAN**  
SCALE: 1" = 100'

- PAVEMENT 9" UNIFORM CONC.
- BIT. SURFACING ON EXIST. OR NEW BASE PAVEMENT
- CITY OF DETROIT COORDINATE POINT

NOTE:  
ALL PROPOSED STREET RETURN RADII  
25' UNLESS OTHERWISE NOTED

**DETAIL "C"  
CURVE DATA**

$\Delta = 137.25.49$   
 $D = 7.32.38$   
 $R = 757.50$   
 $T = 90.54$   
 $L = 120.24$   
 $E = 5.38$   
 P.C. STA. 10+18.88  
 P.I. STA. 11+09.42  
 P.T. STA. 11+99.12

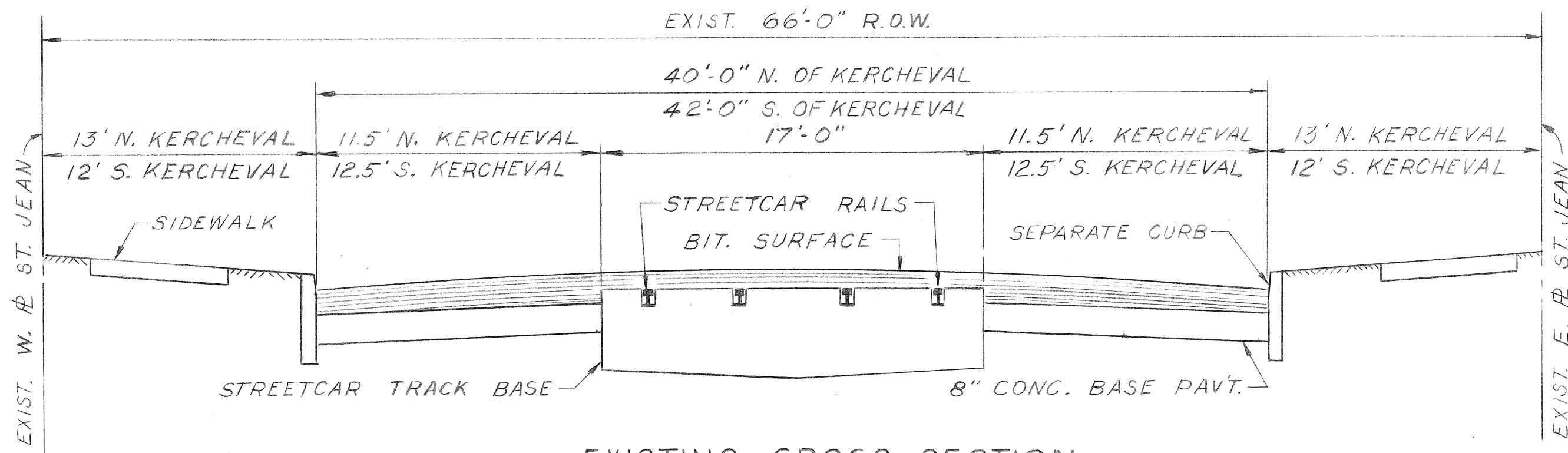
REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
16580 WYOMING DETROIT, MICH. 48221  
FILE NO. **CEA 6006**

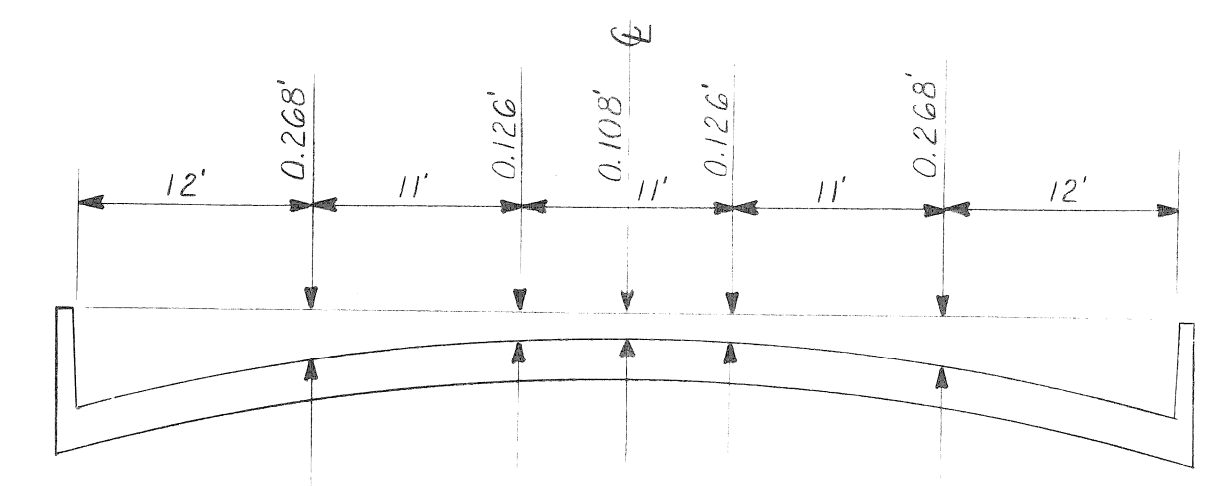
**CITY OF DETROIT**  
CITY ENGINEERING DEPARTMENT  
BUREAUS OF STREETS AND HIGHWAYS

**JEFFERSON - CONNER  
INDUSTRIAL REVITALIZATION PROJECT  
ST. JEAN AVE. RECONSTRUCTION  
PLAN OF PROJECT AND ALIGNMENT**

SHEET 2 OF 77 SHEETS  
CONTRACT NO.  
ASSIGNMENT NO.  
DATE JUNE 8, 1987



EXISTING CROSS-SECTION  
ST JEAN—JEFFERSON TO MACK

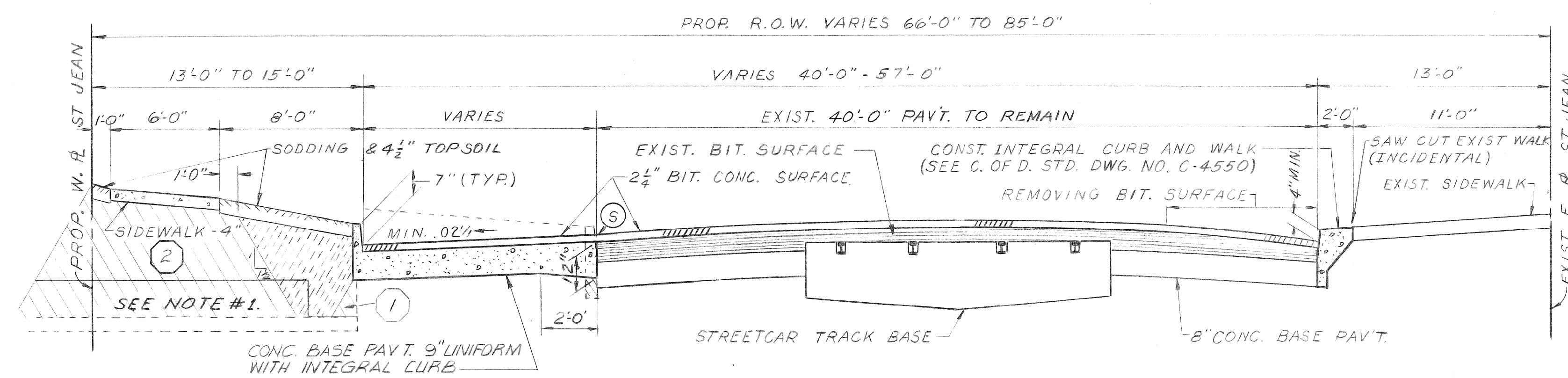


TYPICAL CROWN FOR PROP. 57' PAV'T.

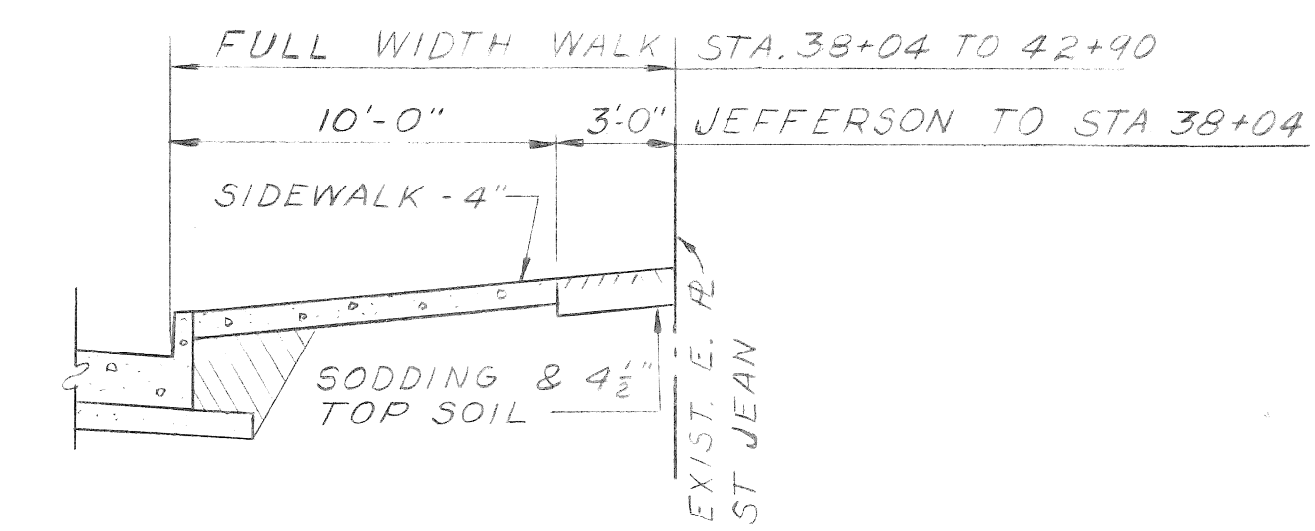
LEGEND:

- SELECT BACKFILL
- FILL GRADE A
- SAWED LONGITUDINAL PLANE OF WEAKNESS JOINT
- OPTIONAL JOINT TYPE B OR D

- REMOVE WALLS TO BOTTOM OF PROPOSED PAVEMENT IN SIDEWALK AREAS
- REMOVE WALLS 1'-6" BELOW THE BOTTOM OF THE PAVEMENT TO A POINT 2' BEHIND THE FACE OF CURB.



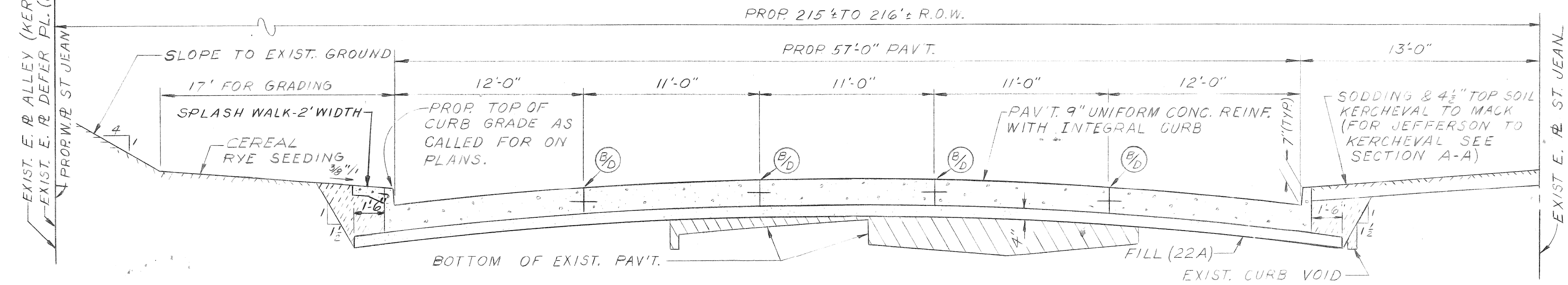
PROPOSED CROSS-SECTION  
ST. JEAN—NORTH OF MACK



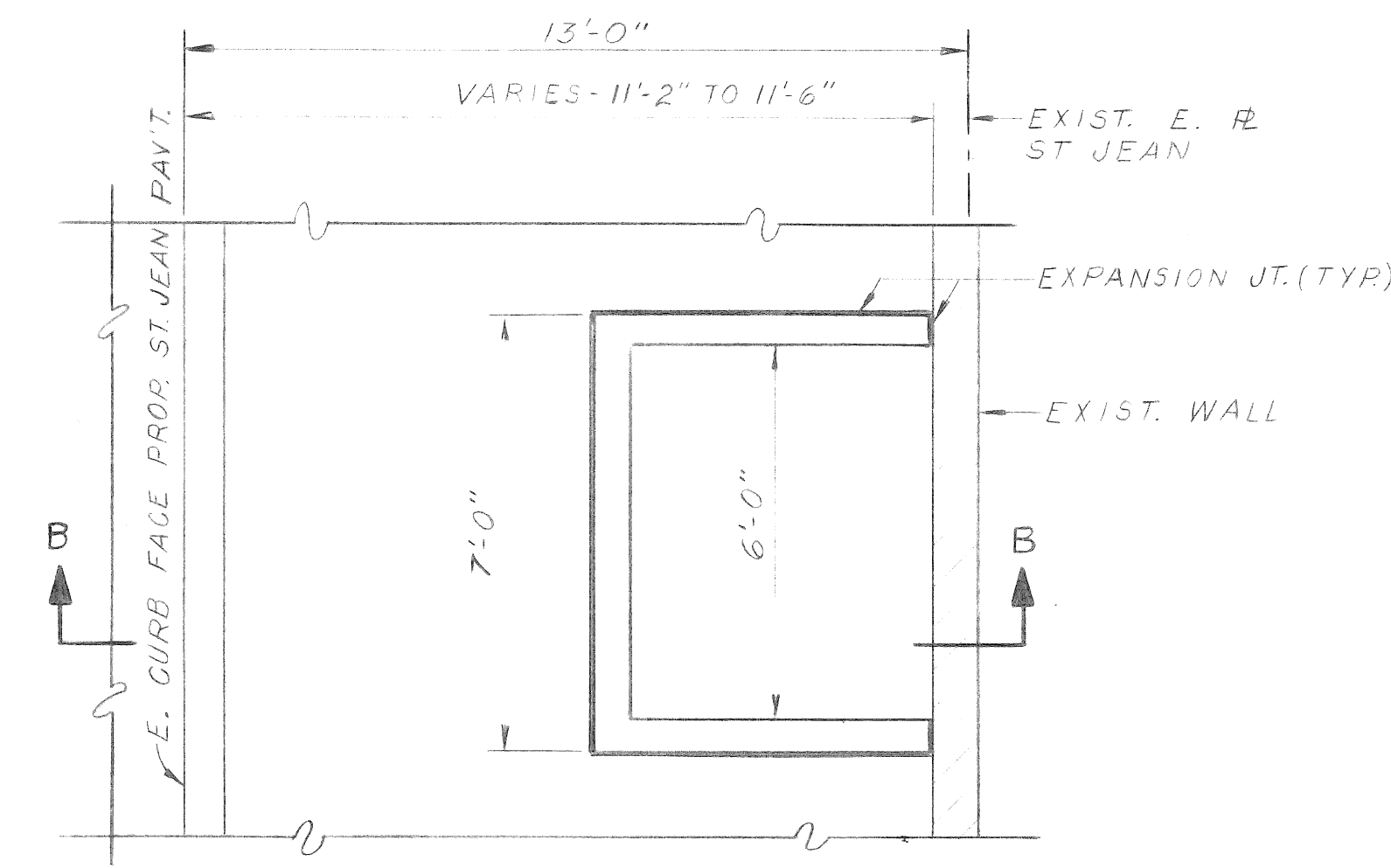
SECTION A-A  
EAST MARGIN OF ST JEAN  
FROM JEFFERSON TO KERCHEVAL

NOTES:

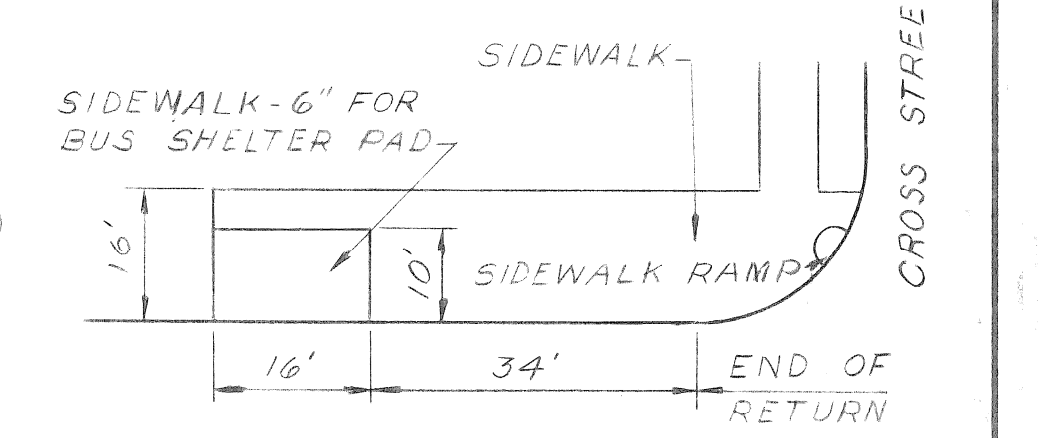
- 1. BASEMENT BACKFILL AND FOUNDATION REMOVAL FOR BUILDINGS EXISTING AT THE START OF THIS PROJECT HAVE BEEN COMPLETED UNDER A PRIOR CONTRACT. BASEMENT BACKFILL AND FOUNDATION REMOVAL MAY BE REQUIRED FOR BUILDINGS REMOVED PRIOR TO THE INDUSTRIAL REVITALIZATION PROJECT; THESE ARE MARKED WITH AN ASTERISK ON THE PLANS.



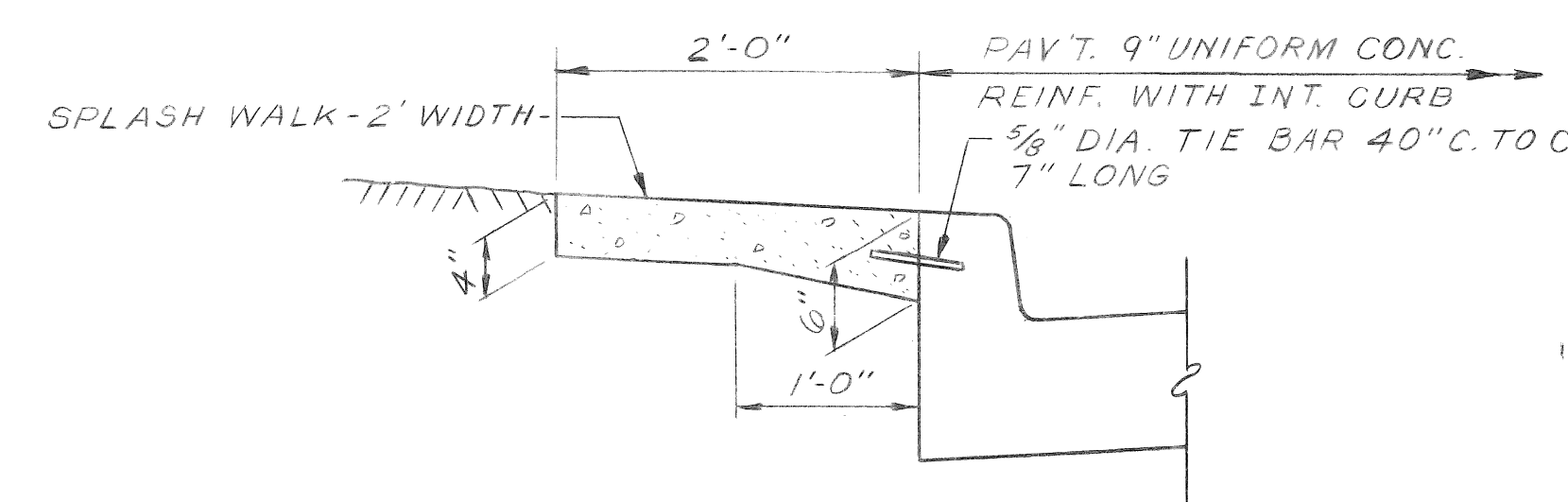
PROPOSED CROSS-SECTION  
ST JEAN—JEFFERSON TO MACK



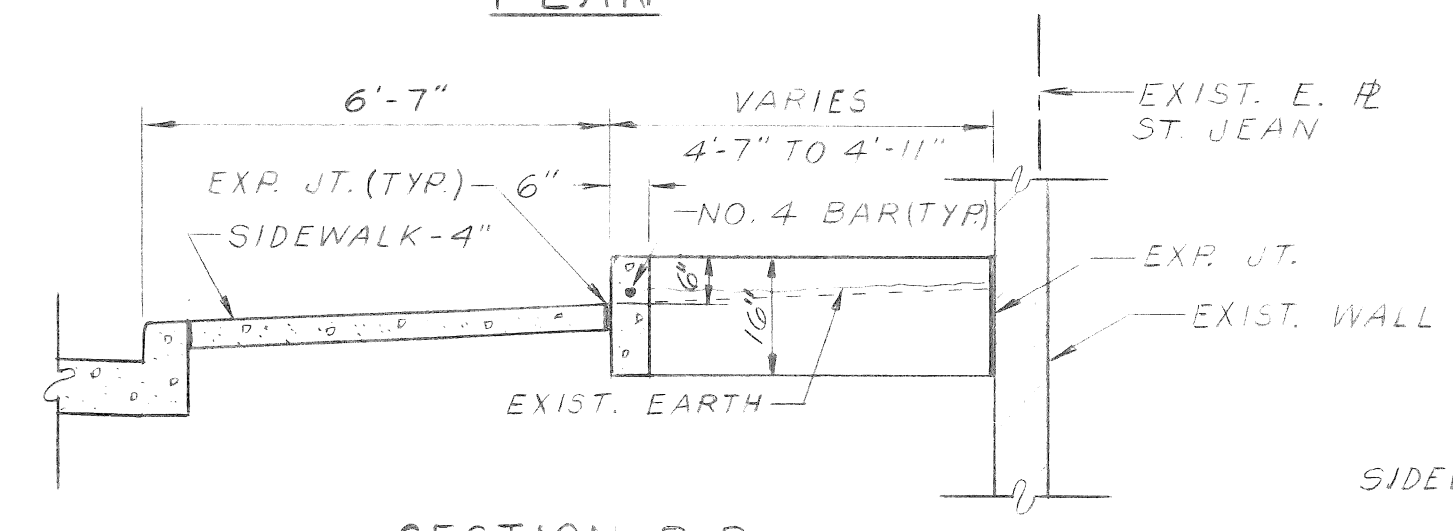
PLAN



SIDEWALK GEOMETRICS  
@ BUS STOPS  
ALONG WEST SIDE OF ST JEAN

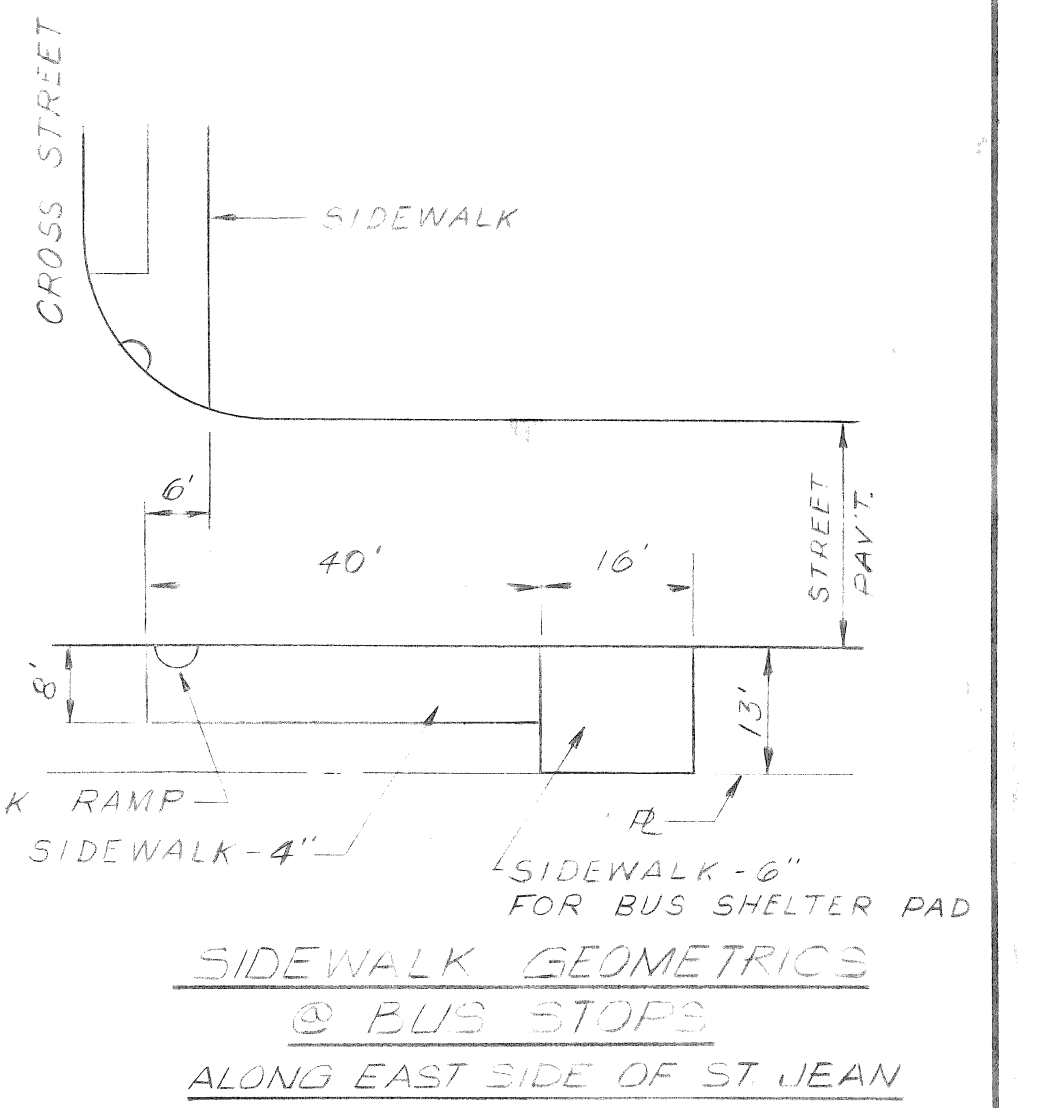


SPLASH WALK DETAIL  
ALONG WEST SIDE OF ST JEAN  
SCALE: 1"=1'-0"



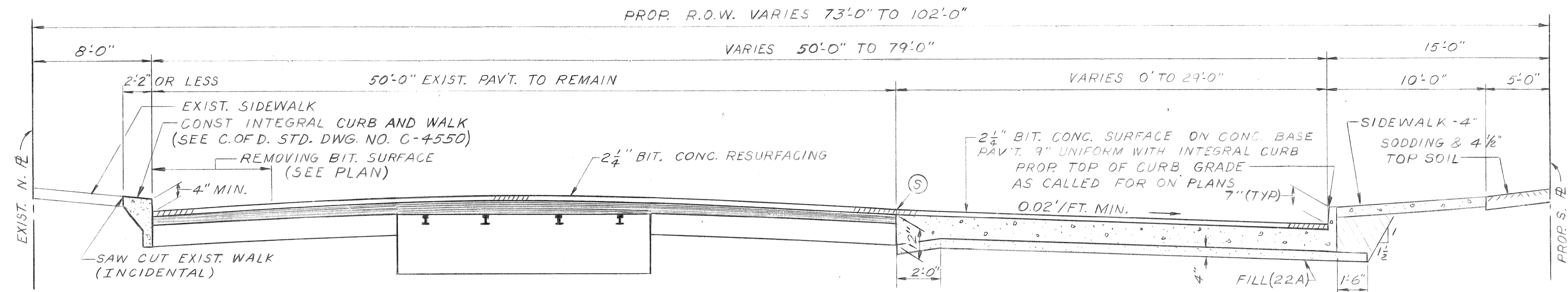
SECTION B-B

TREE PLANTER DETAILS  
SCALE: 3/8"=1'-0"



SIDEWALK GEOMETRICS  
@ BUS STOPS  
ALONG EAST SIDE OF ST JEAN

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST JEAN AVE RECONSTRUCTION ST. JEAN TYPICAL CROSS SECTIONS	SHEET 3 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987



**PROPOSED CROSS-SECTION  
MACK AVE. — STA. 4+67 TO STA. 9+72±**

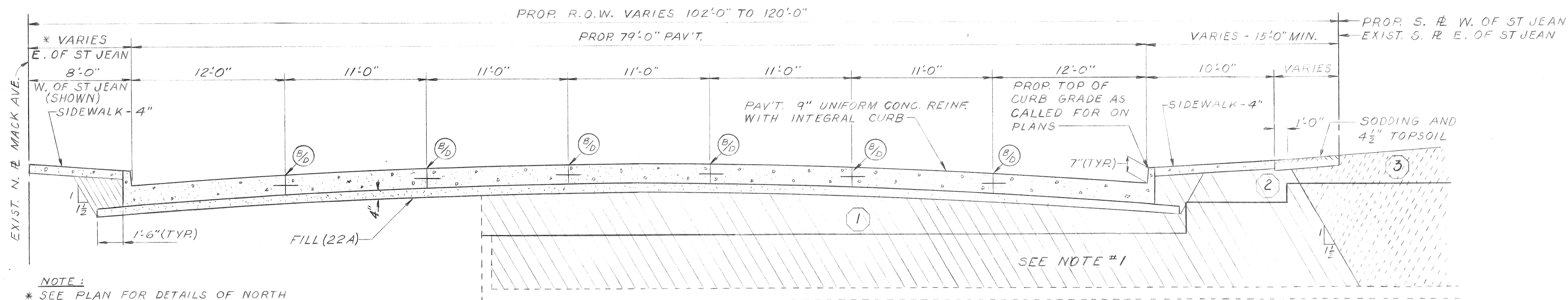
NOTE:  
FOR BASEMENT WALL REMOVAL AND BASEMENT  
BACKFILL REQUIREMENTS SEE SECTION BELOW.

**LEGEND:**

- SELECT BACKFILL
- FILL GRADE A
- SAWED LONGITUDINAL PLANE OF WEAKNESS JOINT
- OPTIONAL, JOINT TYPE B OR D

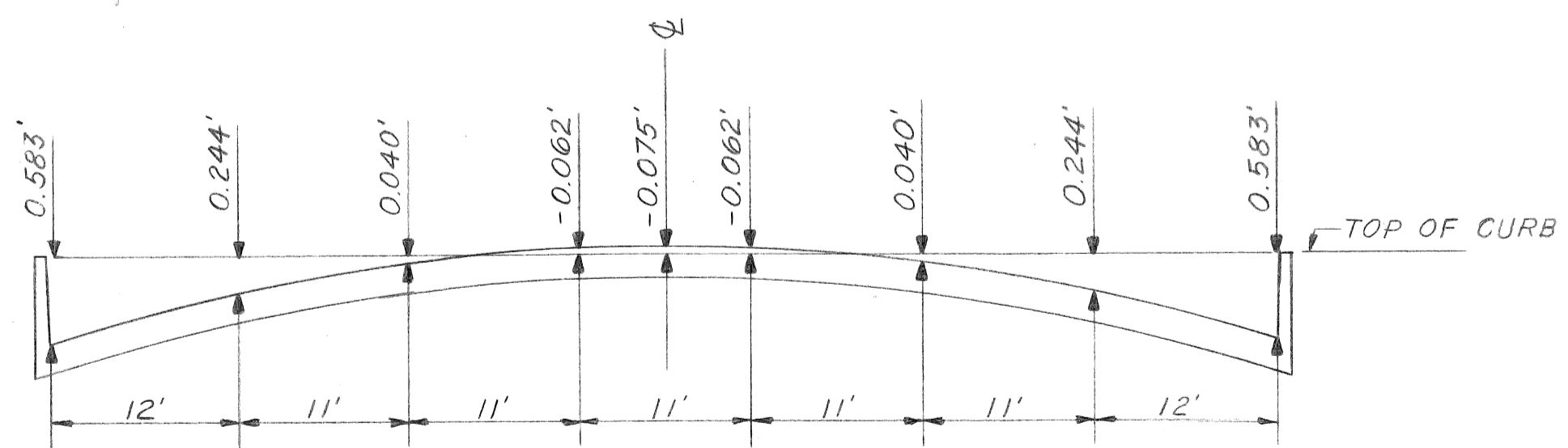
- REMOVE WALLS 1'-6" BELOW THE BOTTOM OF PROP. PAVEMENT TO A POINT 2' BEHIND THE FACE OF CURB.
- REMOVE WALLS TO BOTTOM OF PROPOSED PAVEMENT IN SIDEWALK AREAS.
- REMOVE WALLS TO 1'-0" BELOW THE PROPOSED SURFACE IN AREAS SHOWN.

**NOTES:**  
1. BASEMENT BACKFILL AND FOUNDATION REMOVAL FOR BUILDINGS EXISTING AT THE START OF THIS PROJECT HAVE BEEN COMPLETED UNDER A PRIOR CONTRACT. BASEMENT BACKFILL AND FOUNDATION REMOVAL MAY BE REQUIRED FOR BUILDINGS REMOVED PRIOR TO THE INDUSTRIAL REVITALIZATION PROJECT; THESE ARE MARKED WITH AN ASTERISK ON THE PLANS.

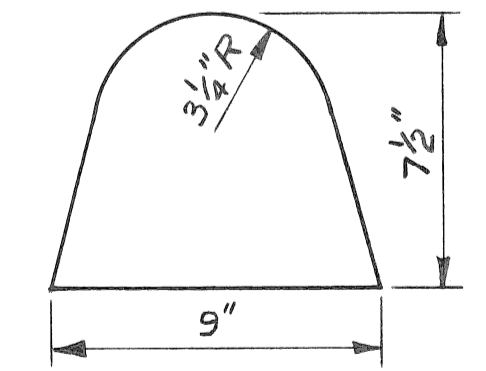


**PROPOSED CROSS-SECTION  
MACK AVE. STA. 9+72± TO STA. 11+09±**

NOTE:  
\* SEE PLAN FOR DETAILS OF NORTH MARGIN EAST OF ST JEAN.



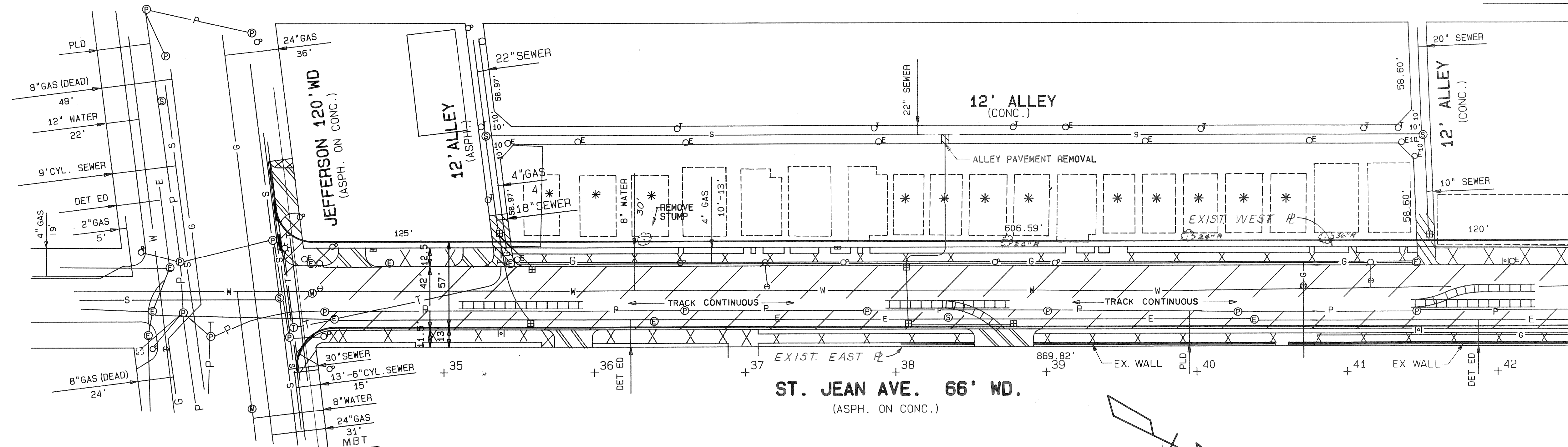
**CROWN FOR PROP. 79' PAV'T.**



**BITUMINOUS CURB  
DETAIL**

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION MACK AVE. TYPICAL CROSS-SECTIONS	SHEET 4 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE: JUNE 8, 1987

DEFER PLACE 50' WD.



MATCH LINE STA. 42+50 THIS SHEET

**REMOVAL LEGEND**

- STREETCAR RAIL & TRACK BASE REMOVAL
- STREET PAVEMENT REMOVAL - UNREINFORCED
- DRIVEWAY REMOVAL
- ALLEY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- BUILDING WITH FOUNDATION
- BUILDING WITH BASEMENT
- SEPARATE TYPE CURB REMOVAL
- TREE REMOVAL

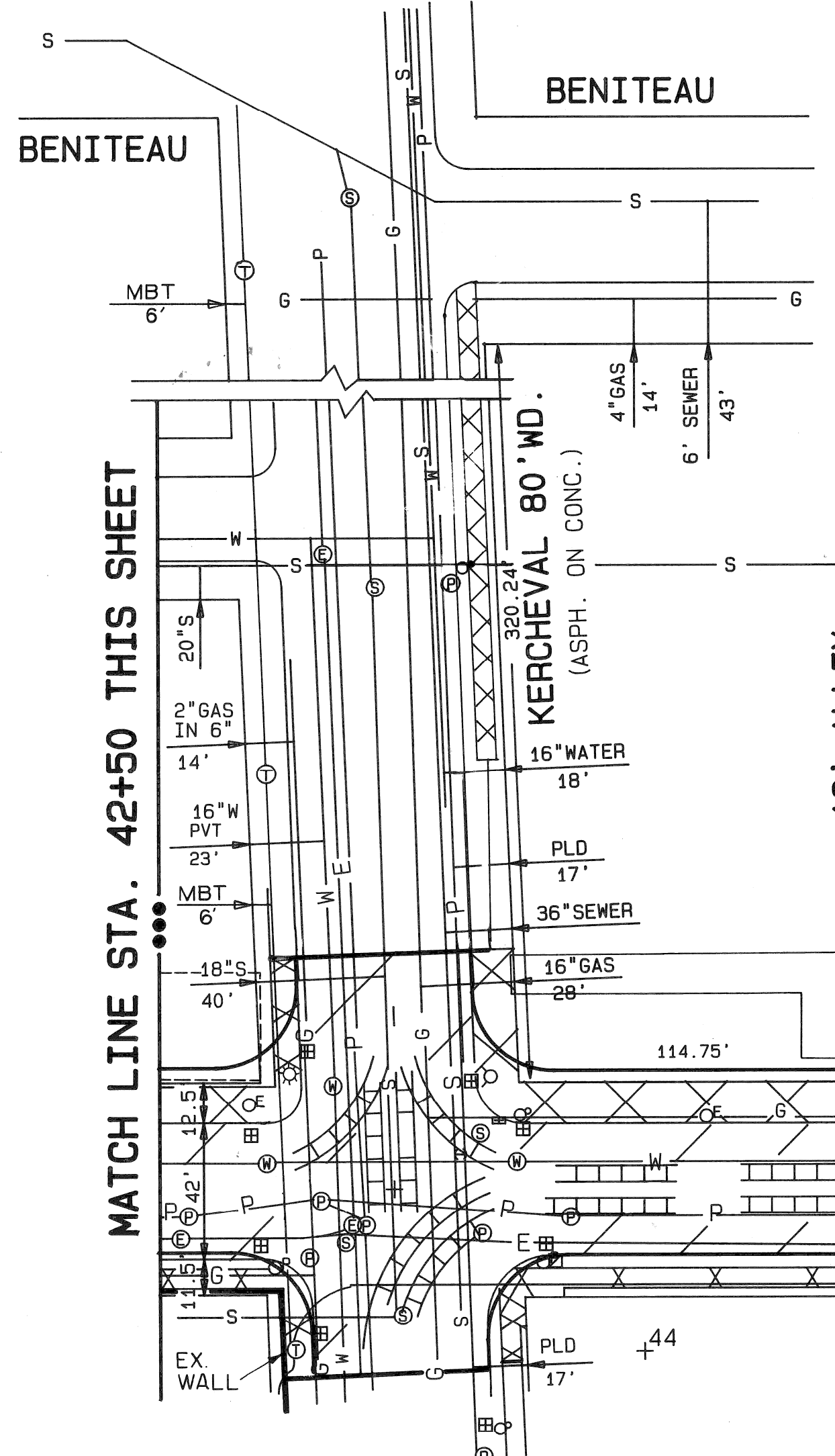
**UTILITY LEGEND**

- PLD CONDUIT & MANHOLE OR HANDHOLE
- SEWER & MANHOLE
- DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- DWS WATER GATE OR MANHOLE & WATER MAIN
- MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- MICHIGAN BELL TELEPHONE CO. POLE
- PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- DETROIT EDISON POLE
- PLD OVERHEAD-FED LIGHT
- WATER SHUT-OFF
- DFD FIRE HYDRANT
- CATCH BASIN
- GAS DRIP OR GAS VALVE
- GUY POLE
- TRAFFIC SIGNAL CONTROLLER
- WATER METER

\* INDICATES FORMER BLDG. LOCATION FROM OLD RECORDS.

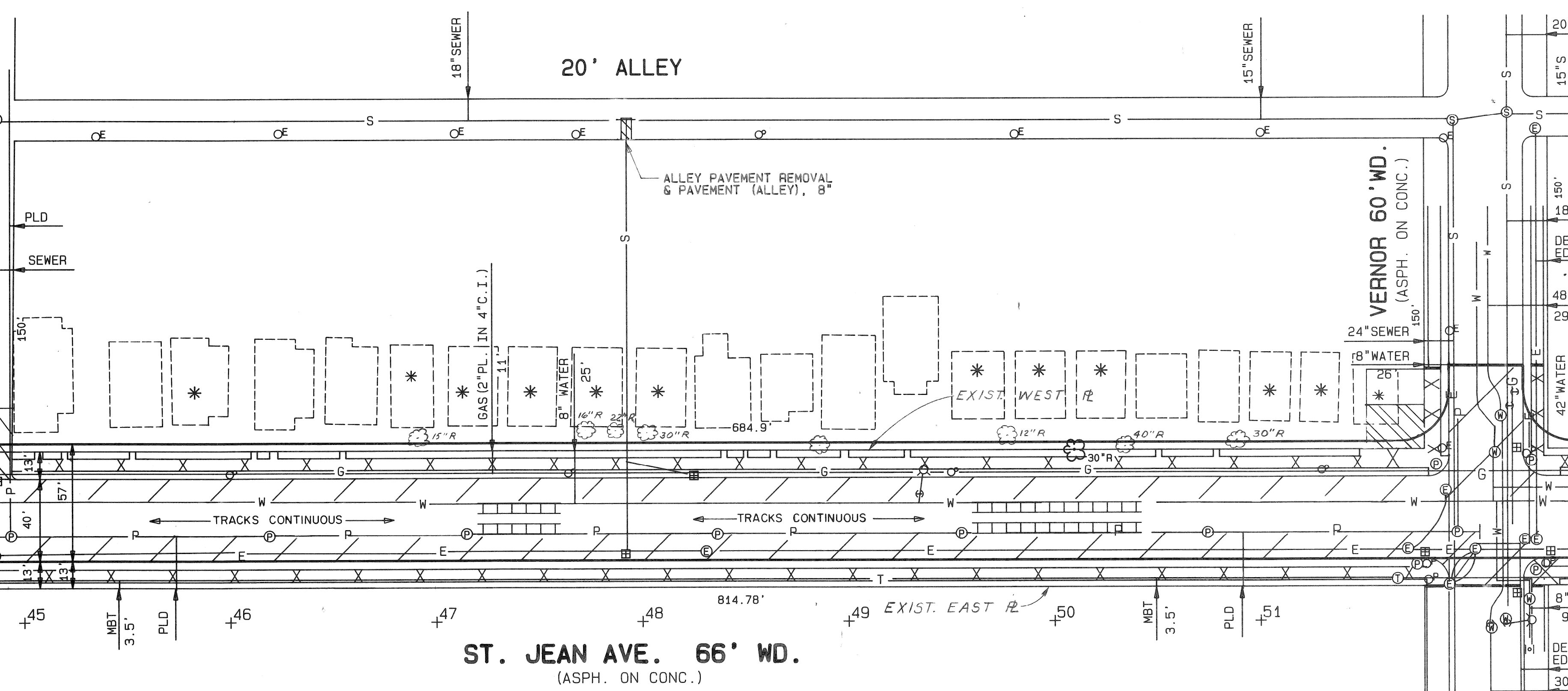
CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION. 647-7344

NOTE:  
LOCATIONS OF EXISTING UTILITIES  
ARE BASED ON THE BEST AVAILABLE  
RECORDS AND ARE NOT GUARANTEED  
FOR COMPLETENESS OR ACCURACY.



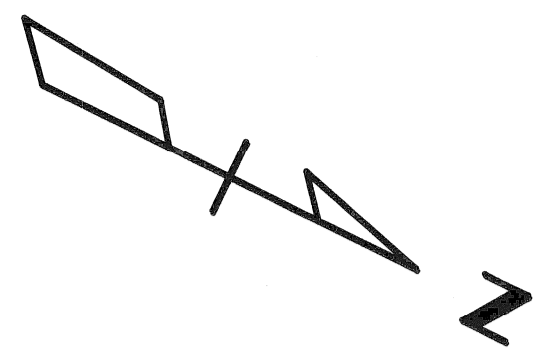
MATCH LINE STA. 42+50 THIS SHEET

MATCH LINE STA. 52+60 SEE DRWG. NO. 6



**PLAN**  
SCALE: 1"=40'

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF STREETS AND HIGHWAYS	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION REMOVAL DRAWING - JEFFERSON TO STA. 52+60	SHEET 5 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE



**REMOVAL LEGEND**

- STREETCAR RAIL & TRACK BASE REMOVAL
- STREET PAVEMENT REMOVAL - UNREINFORCED
- DRIVEWAY REMOVAL
- ALLEY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- BUILDING WITH FOUNDATION
- BUILDING WITH BASEMENT
- SEPARATE TYPE CURB REMOVAL
- TREE REMOVAL

**UTILITY LEGEND**

- PLD CONDUIT & MANHOLE OR HANDHOLE
- SEWER & MANHOLE
- DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- DWS&D WATER GATE OR MANHOLE & WATER MAIN
- MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- MICHIGAN BELL TELEPHONE CO. POLE
- PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- DETROIT EDISON POLE
- PLD OVERHEAD-FED LIGHT
- WATER SHUT-OFF
- DFD FIRE HYDRANT
- CATCH BASIN
- GAS DRIP OR GAS VALVE
- GUY POLE
- TRAFFIC SIGNAL CONTROLLER
- WATER METER

\* INDICATES FORMER BLDG. LOCATION FROM OLD RECORDS.

CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION. 647-7344

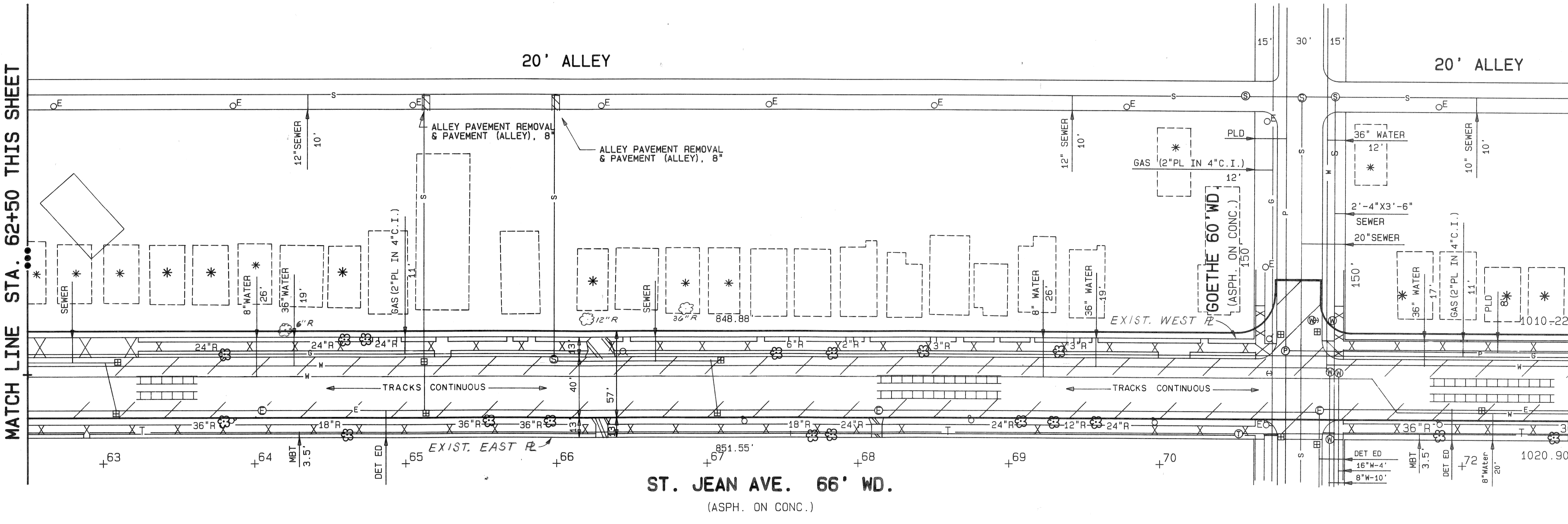
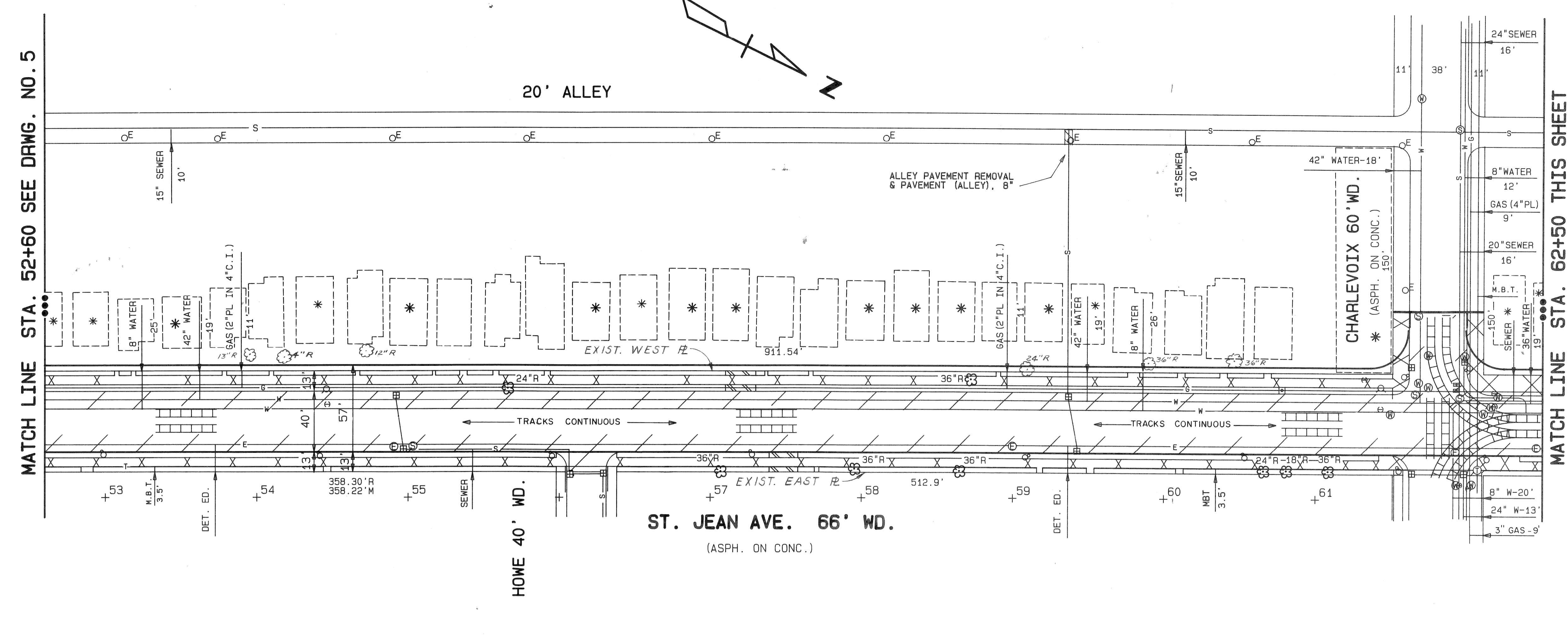
NOTE:  
LOCATIONS OF EXISTING UTILITIES  
ARE BASED ON THE BEST AVAILABLE  
RECORDS AND ARE NOT GUARANTEED  
FOR COMPLETENESS OR ACCURACY.

MATCH LINE STA. 52+60 SEE DRWG. NO. 5

MATCH LINE STA. 62+50 THIS SHEET

MATCH LINE STA. 62+50 THIS SHEET

MATCH LINE STA. 73+00 SEE DRWG. NO. 7



PLAN  
SCALE: 1"=40'

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION REMOVAL DRAWING - STA. 52+60 TO STA. 73+00	SHEET 6 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987

### UTILITY LEGEND

- P—⊙— PLD CONDUIT & MANHOLE OR HANDHOLE
- S—⊙— SEWER & MANHOLE
- E—⊙— DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- G—⊙— MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- W—⊙— DWSO WATER GATE OR MANHOLE & WATER MAIN
- T—⊙— MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- ⊙ MICHIGAN BELL TELEPHONE CO. POLE
- ⊙ PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- ⊙ DETROIT EDISON POLE
- ⊙ PLD OVERHEAD-FED LIGHT
- ⊙ WATER SHUT-OFF
- ⊙ DFD FIRE HYDRANT
- ⊙ CATCH BASIN
- ⊙ GAS DRIP OR GAS VALVE
- ⊙ GUY POLE
- ⊙ TRAFFIC SIGNAL CONTROLLER
- ⊙ WATER METER

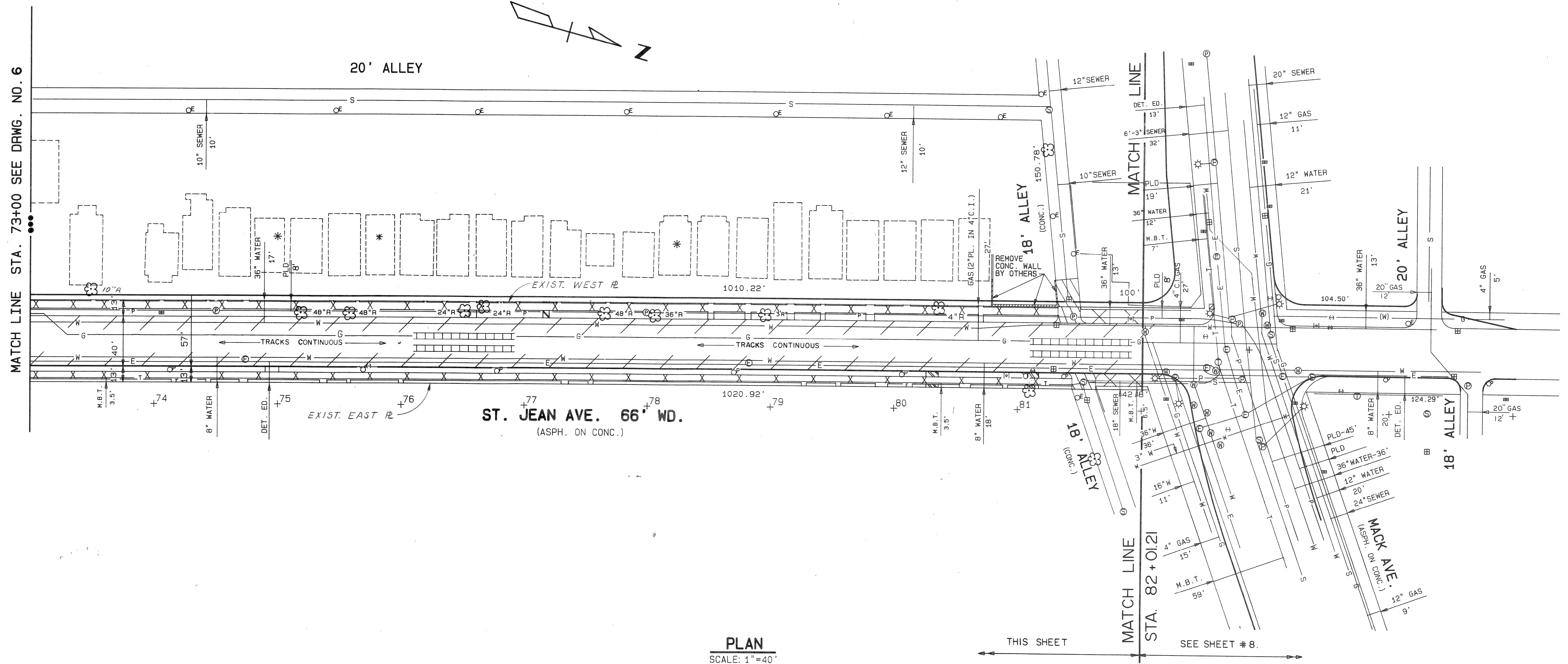
### REMOVAL LEGEND

- ▨ STREETCAR RAIL & TRACK BASE REMOVAL
- ▨ STREET PAVEMENT REMOVAL - UNREINFORCED
- ▨ DRIVEWAY REMOVAL
- ▨ ALLEY PAVEMENT REMOVAL
- ▨ SIDEWALK REMOVAL
- ▨ BUILDING WITH FOUNDATION
- ▨ BUILDING WITH BASEMENT
- ▨ SEPARATE TYPE CURB REMOVAL
- ⊙ TREE REMOVAL

CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION. 647-7344

NOTE:  
LOCATIONS OF EXISTING UTILITIES  
ARE BASED ON THE BEST AVAILABLE  
RECORDS AND ARE NOT GUARANTEED  
FOR COMPLETENESS OR ACCURACY.

\* INDICATES FORMER BLDG. LOCATION  
FROM OLD RECORDS.



PLAN  
SCALE: 1"=40'

DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
16580 WYOMING DETROIT, MICH. 48221  
DRWG. NO. CEA 6006

CITY OF DETROIT  
CITY ENGINEERING DEPARTMENT  
BUREAUS OF STREETS AND HIGHWAYS

JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT  
ST. JEAN AVE. RECONSTRUCTION  
REMOVAL DRAWING - STA. 73+00 TO MACK

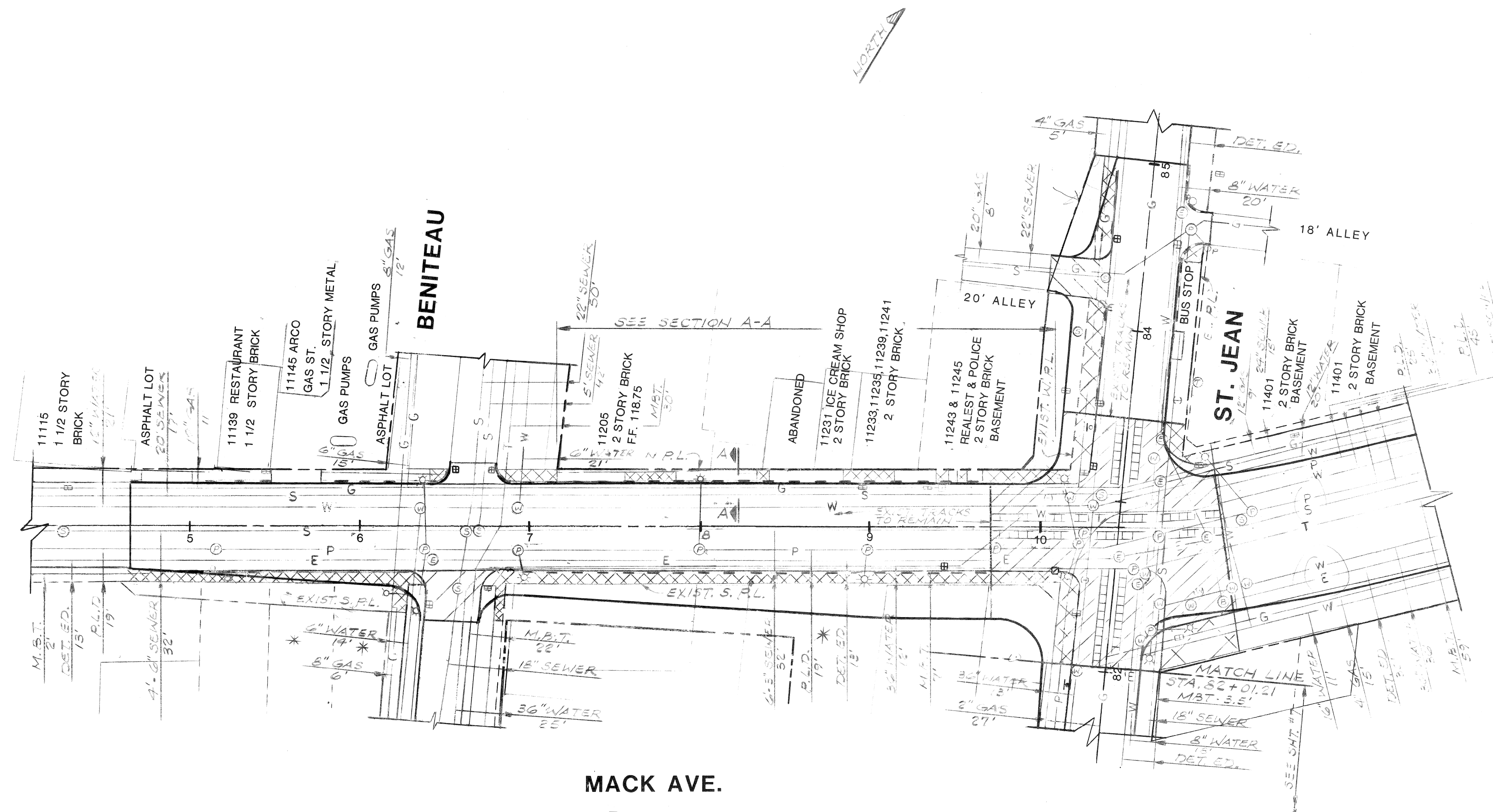
SHEET 7 OF 77 SHEETS  
CONTRACT NO.  
ASSIGNMENT NO.  
DATE JUNE 8, 1987

**REMOVAL LEGEND**

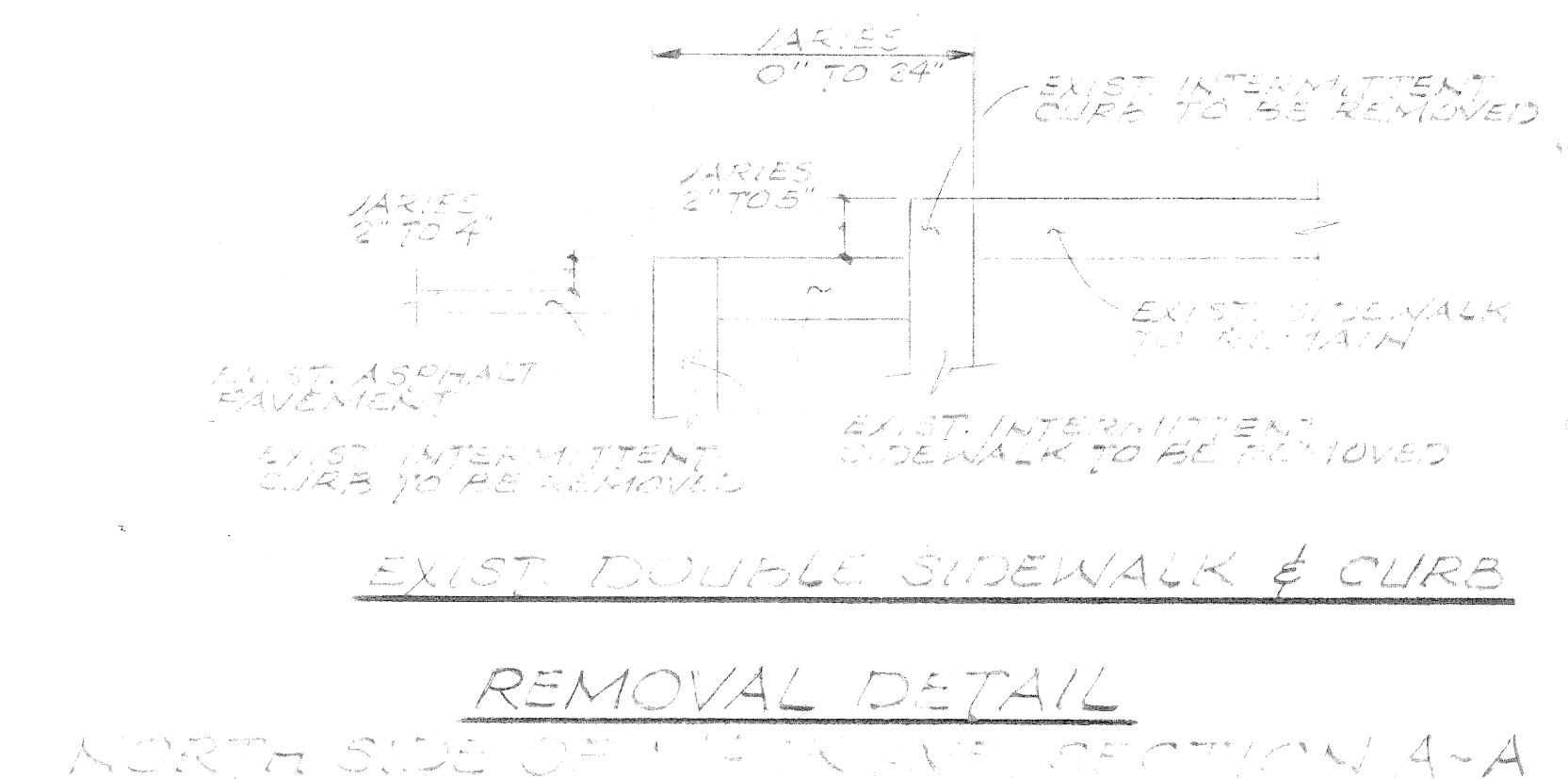
- STREETCAR RAIL & TRACK BASE REMOVAL
- STREET PAVEMENT REMOVAL UNREINFORCED
- DRIVEWAY REMOVAL
- ALLEY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- BUILDING WITH FOUNDATION
- BUILDING WITH BASEMENT
- SEPARATE TYPE CURB REMOVAL
- TREE REMOVAL

**UTILITY LEGEND**

- PLD CONDUIT & MANHOLE OR HANDHOLE
- SEWER & MANHOLE
- DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- DWSO WATER GATE OR MANHOLE & WATER MAIN
- MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- MICHIGAN BELL TELEPHONE CO. POLE
- PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- DETROIT EDISON POLE
- PLD OVERHEAD-FED LIGHT
- WATER SHUT-OFF
- DFD FIRE HYDRANT
- CATCH BASIN
- GAS DRIP OR GAS VALVE
- GUY POLE
- TRAFFIC SIGNAL CONTROLLER
- WATER METER
- PROPOSED CATCH BASIN
- PLD UNDERGROUND-FED LIGHT
- TRAFFIC SIGNAL ON PEDESTAL
- TRAFFIC SIGNAL ON MAST ARM ON WOOD POLE
- TRAFFIC SIGNAL ON MAST ARM ON METAL POLE
- TRAFFIC SIGNAL ON A POLE
- POLICE CALL BOX
- TRAFFIC SIGN POST
- NEW STEEL POLE



**MACK AVE.  
PLAN**  
SCALE: 1"=40'



**REMOVAL DETAIL**

NORTH SIDE OF MACK AVE. SECTION A-A

CALL SEE PLAN SHEET 46 FOR LOCATION OF EXISTING UTILITIES AND BASEMENTS. SEE PLAN SHEET 46 FOR LOCATION OF EXISTING SIDEWALKS AND CURBS. SEE PLAN SHEET 46 FOR LOCATION OF EXISTING TRAFFIC SIGNALS AND SIGN POSTS.

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	TUCKER, YOUNG JACKSON, TULL INC. CONSULTING ENGINEERS - PLANNERS 1101 Washington Blvd. Detroit, Michigan 48226 313-963-0612	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION MACK & ST JEAN - REMOVAL PLAN	SHEET 8 OF 77 SHEETS
				CHARLOTTE					CONTRACT NO.
				CHECKED					ASSIGNMENT NO.
				APPROVED					DATE JUNE 8, 1987

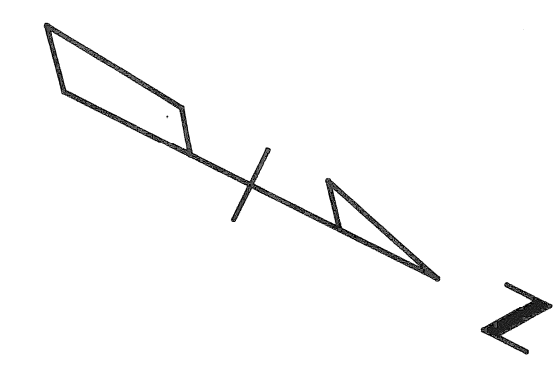


**DRAINAGE NOTE:**  
SET SEWER GRADES @ 0.40% WHEN NOT OTHERWISE INDICATED.

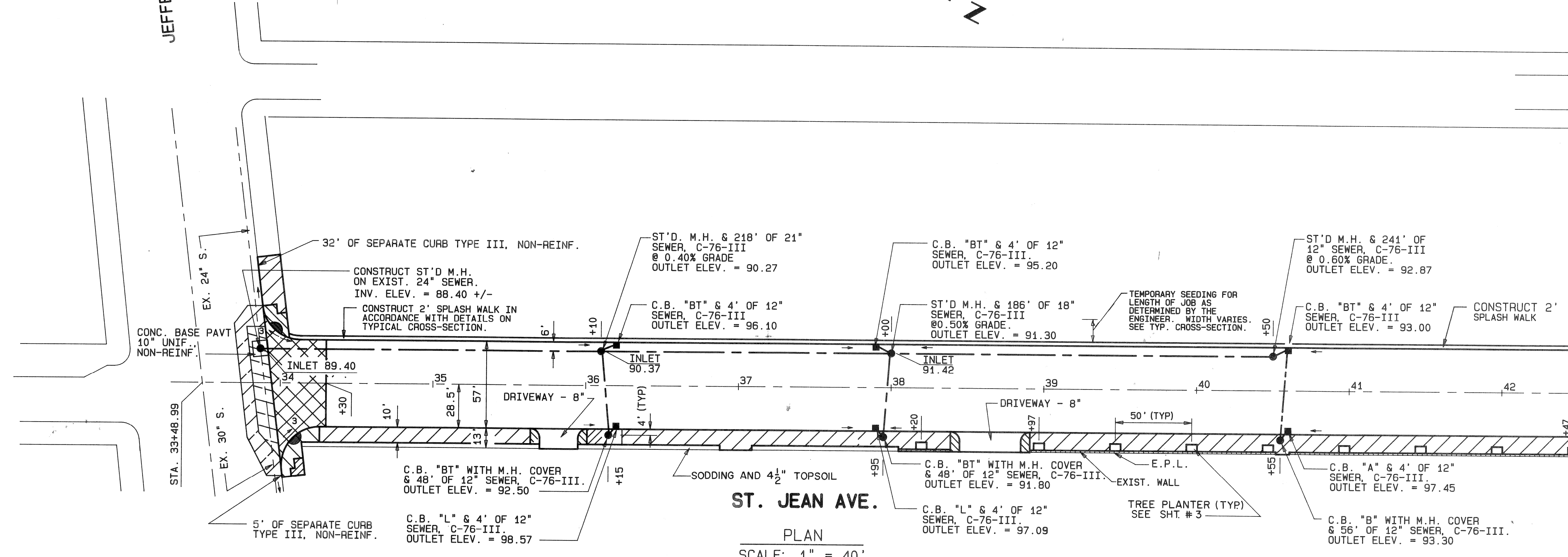
**SURFACING LEGEND**

- CONSTRUCT SIDEWALK - 4"
- CONSTRUCT SIDEWALK - 6"
- STRIPPING & BIT. RESURFACING
- CONSTRUCT BIT. SURF. ON CONC. BASE PAVT-REINF. WITH INTEGRAL CURB
- CONSTRUCT CATCH BASIN
- CONSTRUCT MANHOLE
- CONSTRUCT SEWER
- CONSTRUCT SIDEWALK RAMP (TYPE 3 SHOWN)
- BITUMINOUS SURFACING
- SURFACE DRAINAGE FLOW
- TREE PLANTER

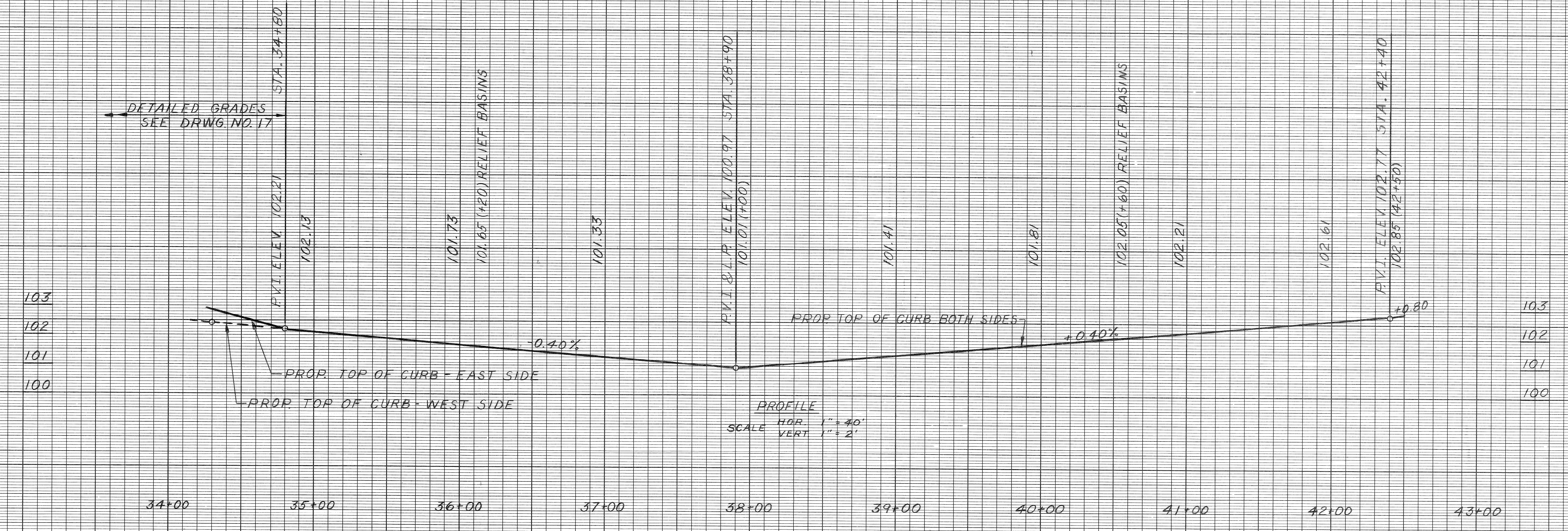
JEFFERSON



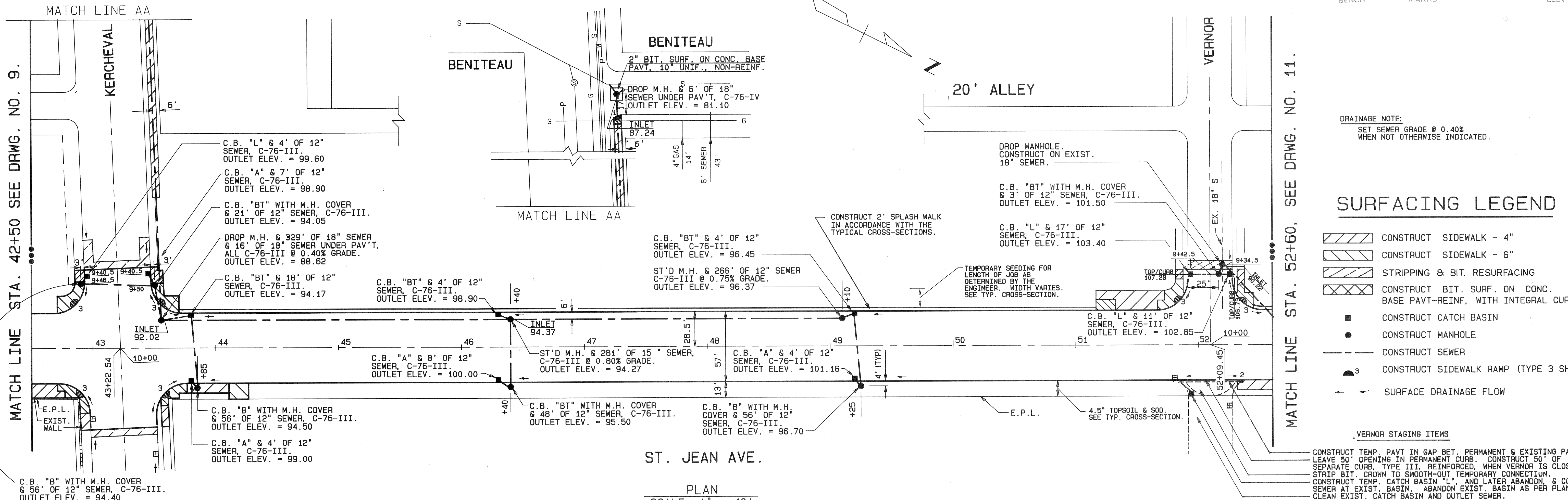
MATCH LINE STA. 42+50 SEE DRWG. NO. 10.



PLAN  
SCALE: 1" = 40'



DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION PLAN & PROFILE - JEFFERSON TO STA. 42+50	SHEET 9 OF 77 SHEETS CONTRACT NO. ASSIGNMENT NO. DATE JUNE 8, 1987
			CHECKED				
			APPROVED				
			DATE				



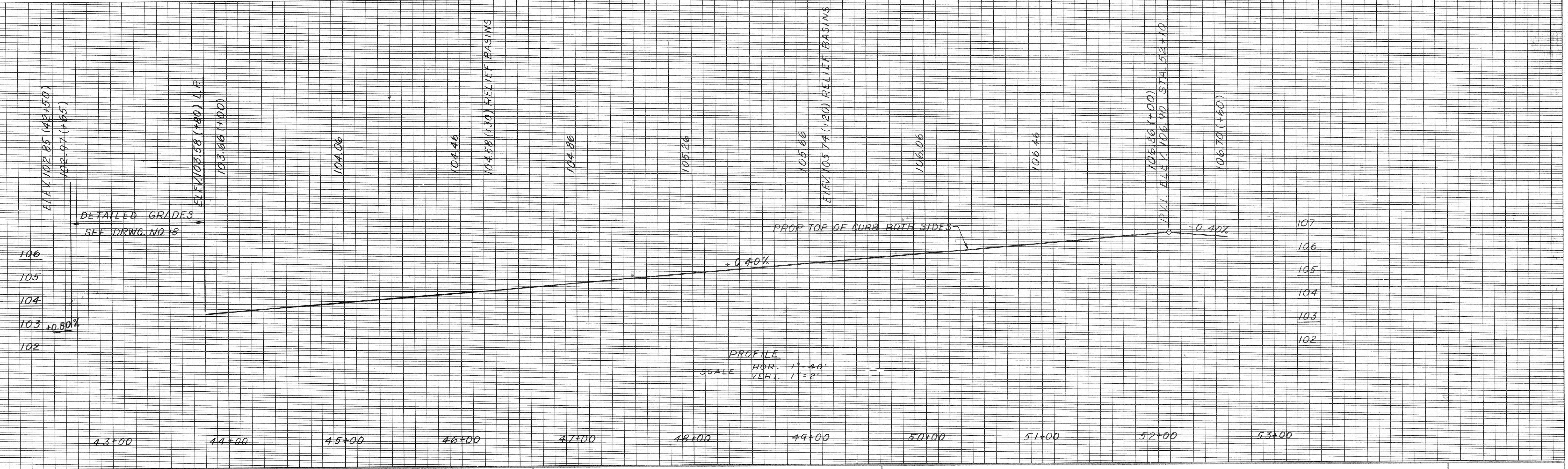
DRAINAGE NOTE:  
SET SEWER GRADE @ 0.40%  
WHEN NOT OTHERWISE INDICATED.

**SURFACING LEGEND**

- CONSTRUCT SIDEWALK - 4"
- CONSTRUCT SIDEWALK - 6"
- STRIPPING & BIT. RESURFACING
- CONSTRUCT BIT. SURF. ON CONC. BASE PAVT-REINF. WITH INTEGRAL CURB
- CONSTRUCT CATCH BASIN
- CONSTRUCT MANHOLE
- CONSTRUCT SEWER
- CONSTRUCT SIDEWALK RAMP (TYPE 3 SHOWN)
- SURFACE DRAINAGE FLOW

**VERNOR STAGING ITEMS**  
CONSTRUCT TEMP. PAVT IN GAP BET. PERMANENT & EXISTING PAVEMENTS. LEAVE 50' OPENING IN PERMANENT CURB. CONSTRUCT 50' OF SEPARATE CURB, TYPE III, REINFORCED, WHEN VERNOR IS CLOSED. STRIP BIT. CROWN TO SMOOTH-OUT TEMPORARY CONNECTION. CONSTRUCT TEMP. CATCH BASIN "L" AND LATER ABANDON & CONNECT TO SEWER AT EXIST. BASIN. ABANDON EXIST. BASIN AS PER PLANS. CLEAN EXIST. CATCH BASIN AND OUTLET SEWER.

**ST. JEAN AVE.**  
PLAN  
SCALE: 1" = 40'



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

DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. _____ FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION PLAN & PROFILE - STA. 42+50 TO STA. 52+60	SHEET 10 OF 77 SHEETS
			CHECKED				CONTRACT NO.
			APPROVED				ASSIGNMENT NO.
			DATE				DATE JUNE 8, 1987

P.B.M. #55-255A - NE CORNER OF GLADWIN & CHARLEVOIX. ELEV. = 108.44

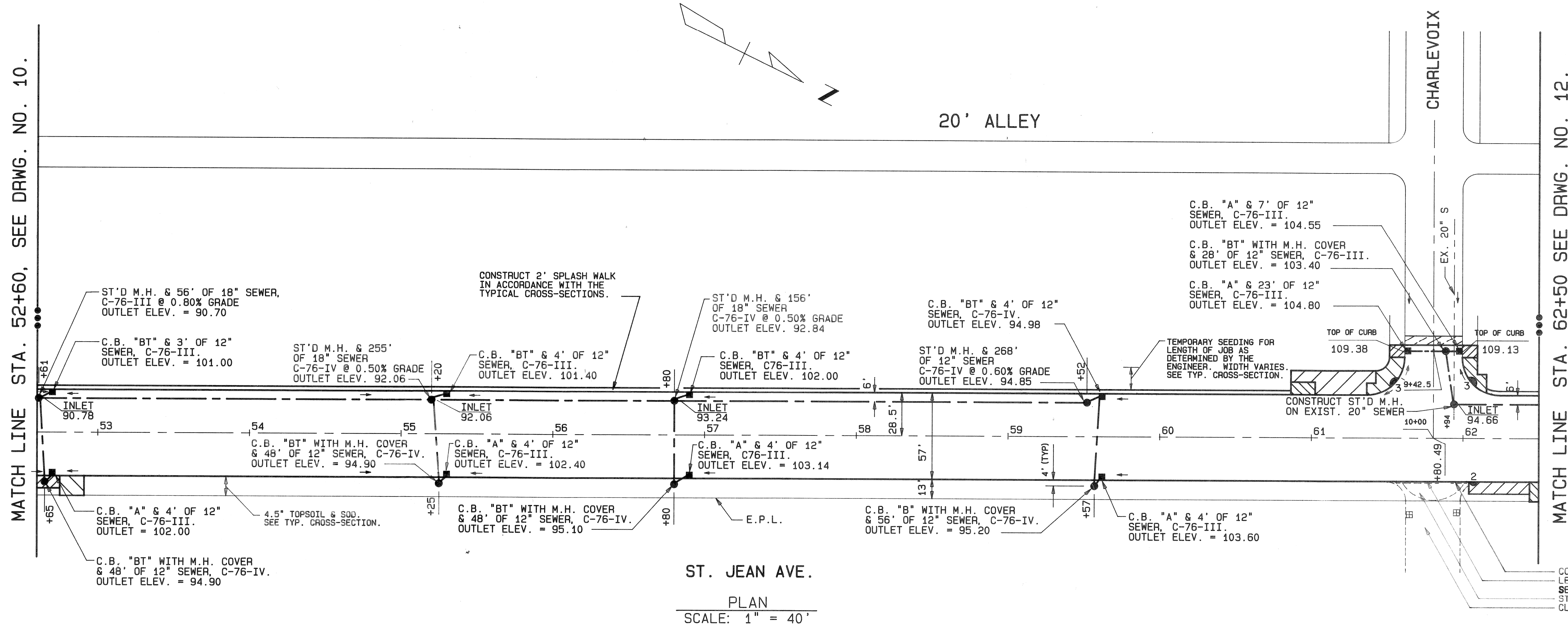
DRAINAGE NOTE:  
SET SEWER GRADE @ 0.40% WHEN NOT OTHERWISE INDICATED.

**SURFACING LEGEND**

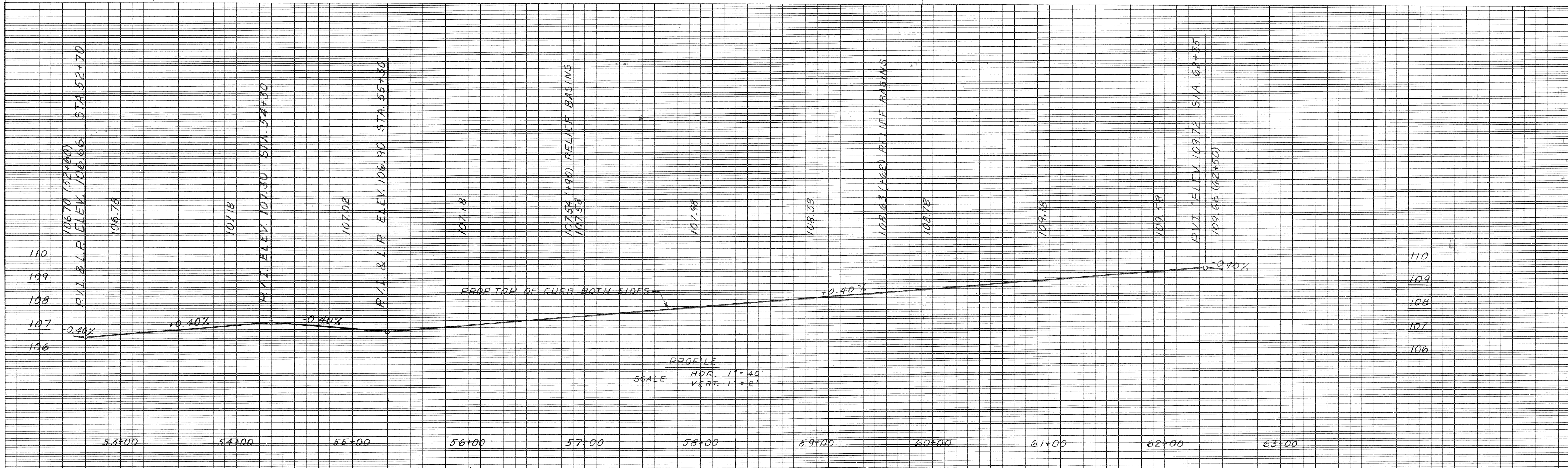
- CONSTRUCT SIDEWALK - 4"
- CONSTRUCT SIDEWALK - 6"
- STRIPPING & BIT. RESURFACING
- CONSTRUCT BIT. SURF. ON CONC. BASE PAVT-REINF. WITH INTEGRAL CURB
- CONSTRUCT CATCH BASIN
- CONSTRUCT MANHOLE
- CONSTRUCT SEWER
- CONSTRUCT SIDEWALK RAMP (TYPE 3 SHOWN)
- SURFACE DRAINAGE FLOW

**CHARLEVOIX STAGING ITEMS**

CONSTRUCT TEMP. PAVT IN GAP BET. PERMANENT & EXISTING PAVEMENTS. LEAVE 50' OPENING IN PERMANENT CURB. CONSTRUCT 50' OF SEPARATE CURB, TYPE III, REINFORCED, WHEN CHARLEVOIX IS CLOSED. STRIP BIT. CHURN TO SMOOTH-CUT TEMPORARY CONNECTION. CLEAN EXIST. CATCH BASINS AND OUTLET SEWERS, IF NEEDED.



PLAN  
SCALE: 1" = 40'



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

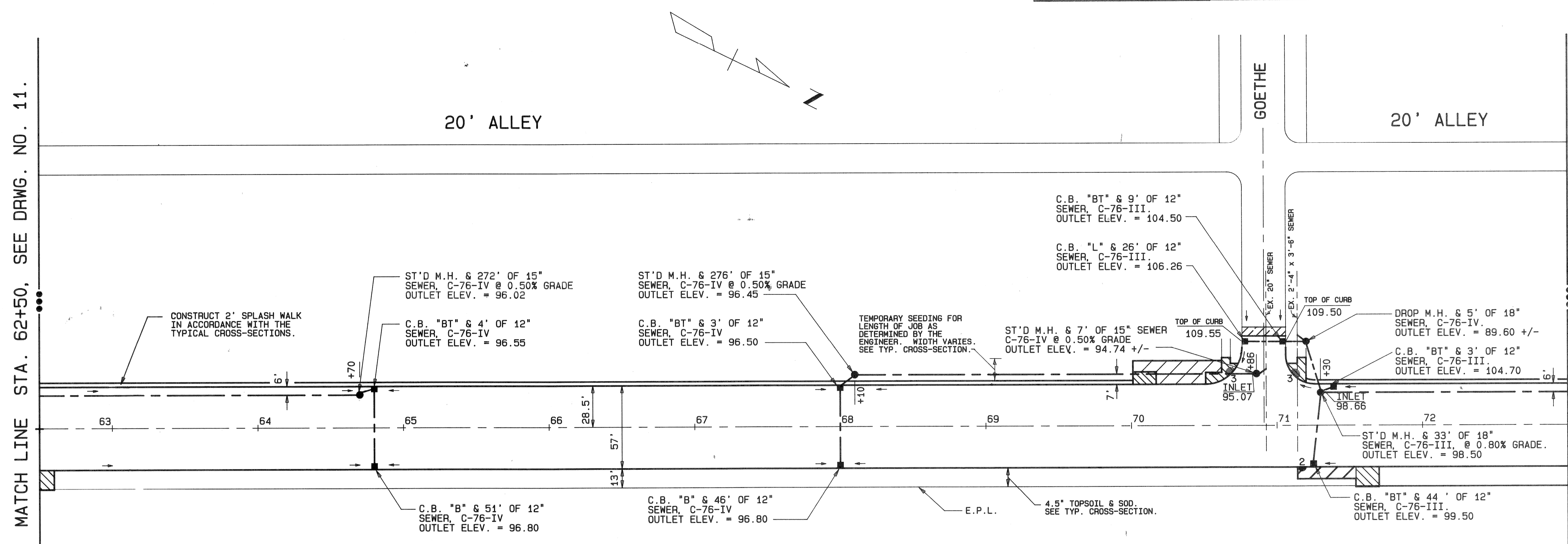
DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
15580 WYOMING DETROIT, MICH. 48224  
DRAWG. NO. FILE NO. CEA 6006

CITY OF DETROIT  
CITY ENGINEERING DEPARTMENT  
BUREAU OF STREETS AND HIGHWAYS

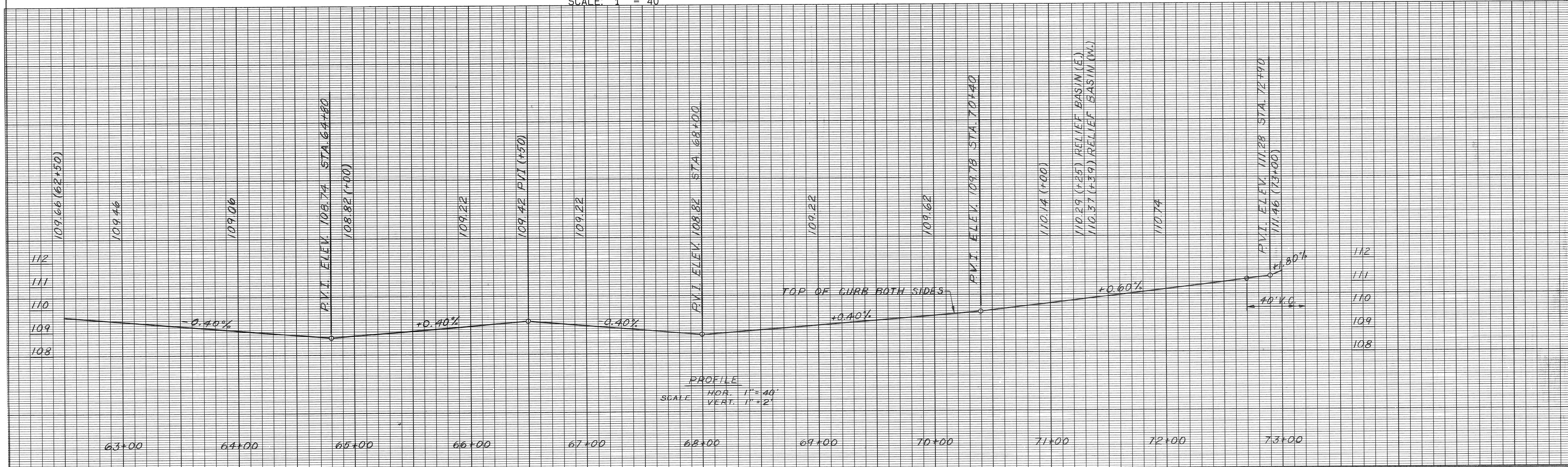
JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT  
ST. JEAN AVE. RECONSTRUCTION  
PLAN & PROFILE - STA. 52+60 TO STA. 62+50

SHEET 11 OF 77 SHEETS  
CONTRACT NO.  
ASSIGNMENT NO.  
DATE JUNE 8, 1987



- ### SURFACING LEGEND
- CONSTRUCT SIDEWALK - 4"
  - CONSTRUCT SIDEWALK - 6"
  - STRIPPING & BIT. RESURFACING
  - CONSTRUCT BIT. SURF. ON CONC. BASE PAVT-REINF. WITH INTEGRAL CURB
  - CONSTRUCT CATCH BASIN
  - CONSTRUCT MANHOLE
  - CONSTRUCT SEWER
  - CONSTRUCT SIDEWALK RAMP (TYPE 3 SHOWN)
  - SURFACE DRAINAGE FLOW

ST. JEAN AVE.  
PLAN  
SCALE: 1" = 40'



DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
16580 WYOMING DETROIT, MICH. 48221  
FILE NO. CEA 6006

CITY OF DETROIT  
CITY ENGINEERING DEPARTMENT  
BUREAUS OF STREETS AND HIGHWAYS

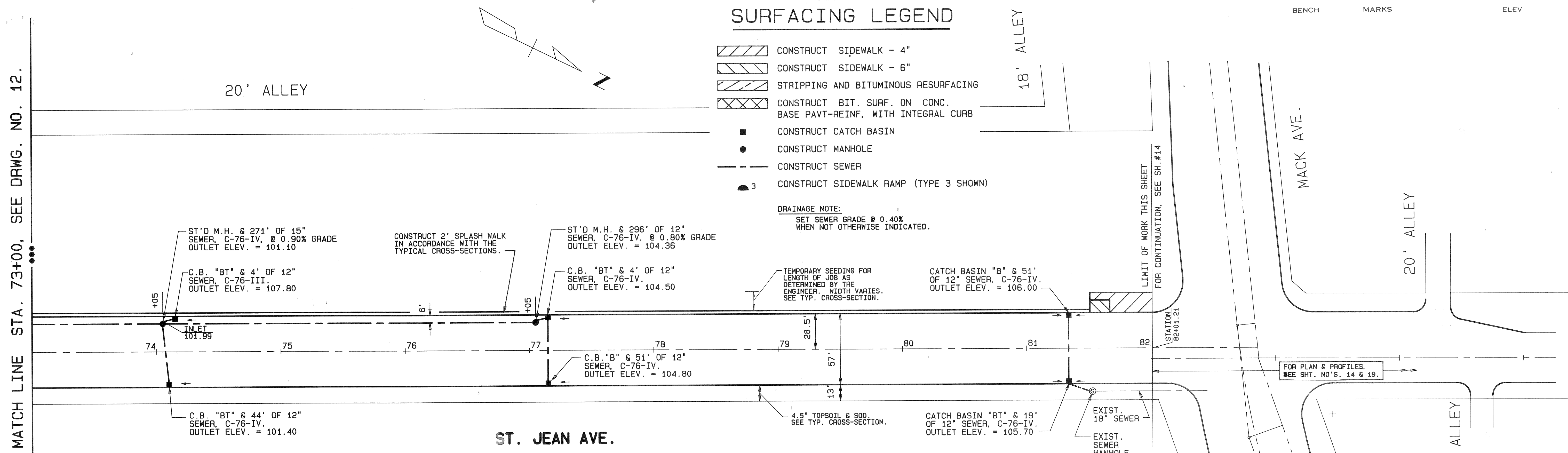
JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT  
ST. JEAN AVE. RECONSTRUCTION  
PLAN & PROFILE - STA. 62+50 TO STA. 73+00

SHEET 12 OF 77 SHEETS  
CONTRACT NO.  
ASSIGNMENT NO.  
DATE JUNE 8, 1987

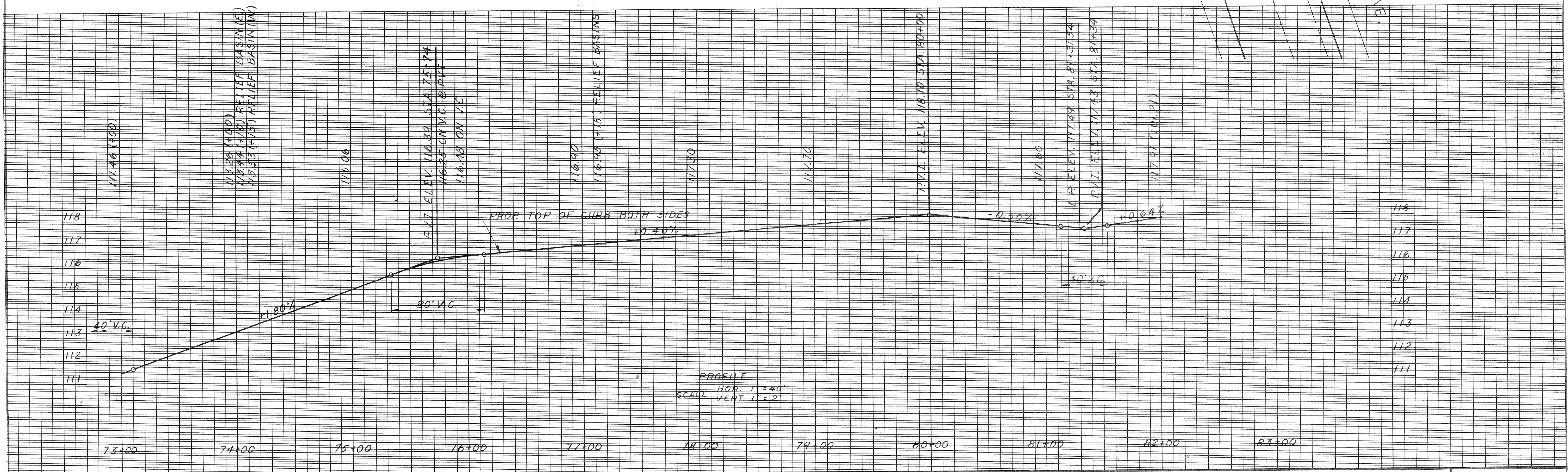
### SURFACING LEGEND

- CONSTRUCT SIDEWALK - 4"
- CONSTRUCT SIDEWALK - 6"
- STRIPPING AND BITUMINOUS RESURFACING
- CONSTRUCT BIT. SURF. ON CONC. BASE PAVT-REINF. WITH INTEGRAL CURB
- CONSTRUCT CATCH BASIN
- CONSTRUCT MANHOLE
- CONSTRUCT SEWER
- CONSTRUCT SIDEWALK RAMP (TYPE 3 SHOWN)

DRAINAGE NOTE:  
SET SEWER GRADE @ 0.40% WHEN NOT OTHERWISE INDICATED.

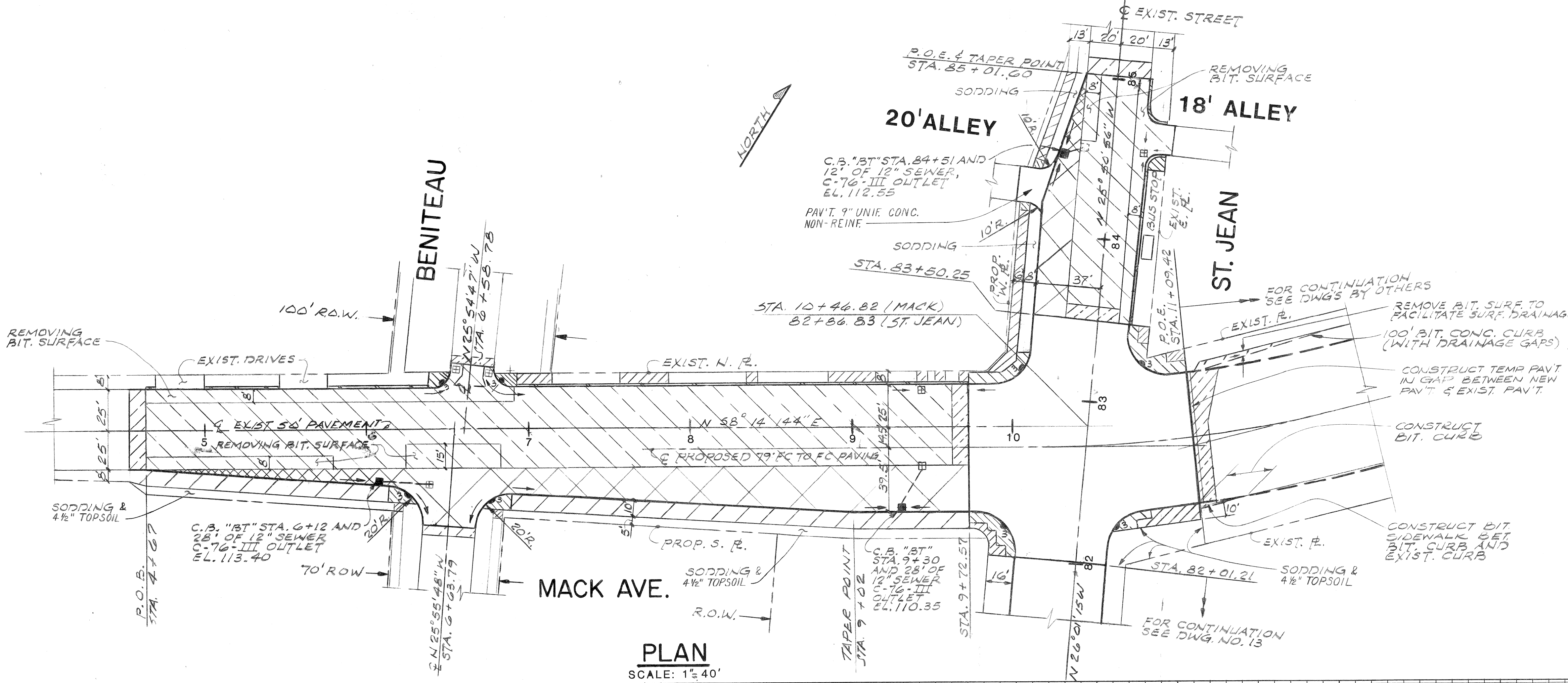


PLAN  
SCALE: 1" = 40'



PROFILE  
HOR. 1" = 40'  
VERT. 1" = 2'

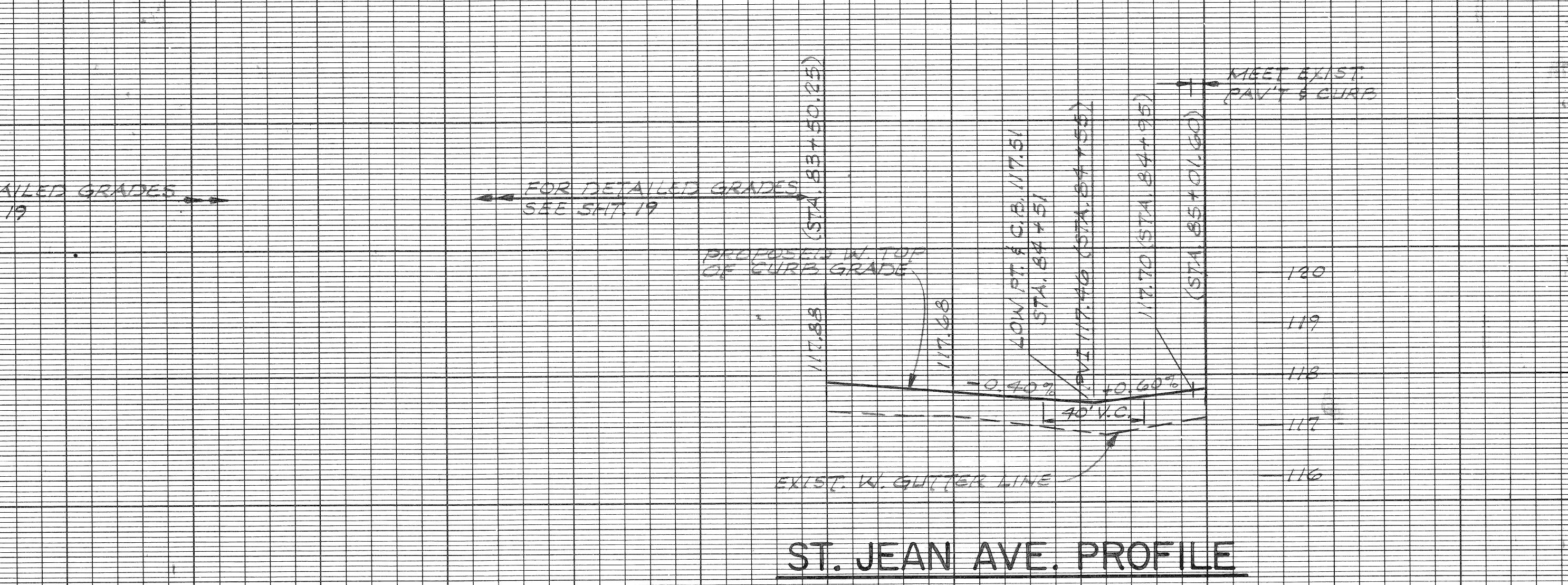
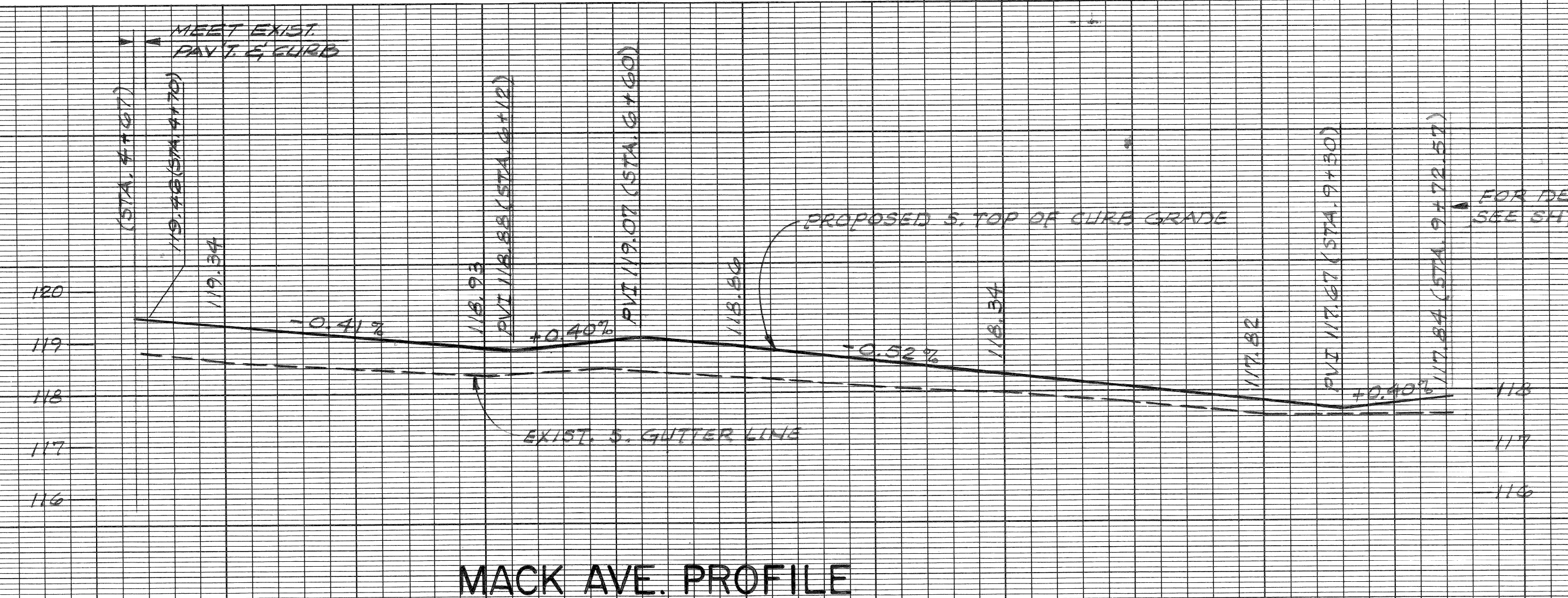
<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DESCRIPTION										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>CHKD. BY</th><th>DATE</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	CHKD. BY	DATE					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>DRAWN</th><th>DATE</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	DRAWN	DATE					<p>PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221</p>	<p>CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS</p>	<p>JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION PLAN &amp; PROFILE - STA. 73+00 TO MACK</p>	<p>SHEET 13 OF 77 SHEETS CONTRACT NO. _____ ASSIGNMENT NO. _____ DATE JUNE 8, 1987</p>
NO.	DATE	DESCRIPTION																												
CHKD. BY	DATE																													
DRAWN	DATE																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>DATE</th><th>DESCRIPTION</th><th>CHKD. BY</th><th>DRAWN</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>				DATE	DESCRIPTION	CHKD. BY	DRAWN													<p>DRWG. NO. _____ FILE NO. CEA 6006</p>										
DATE	DESCRIPTION	CHKD. BY	DRAWN																											

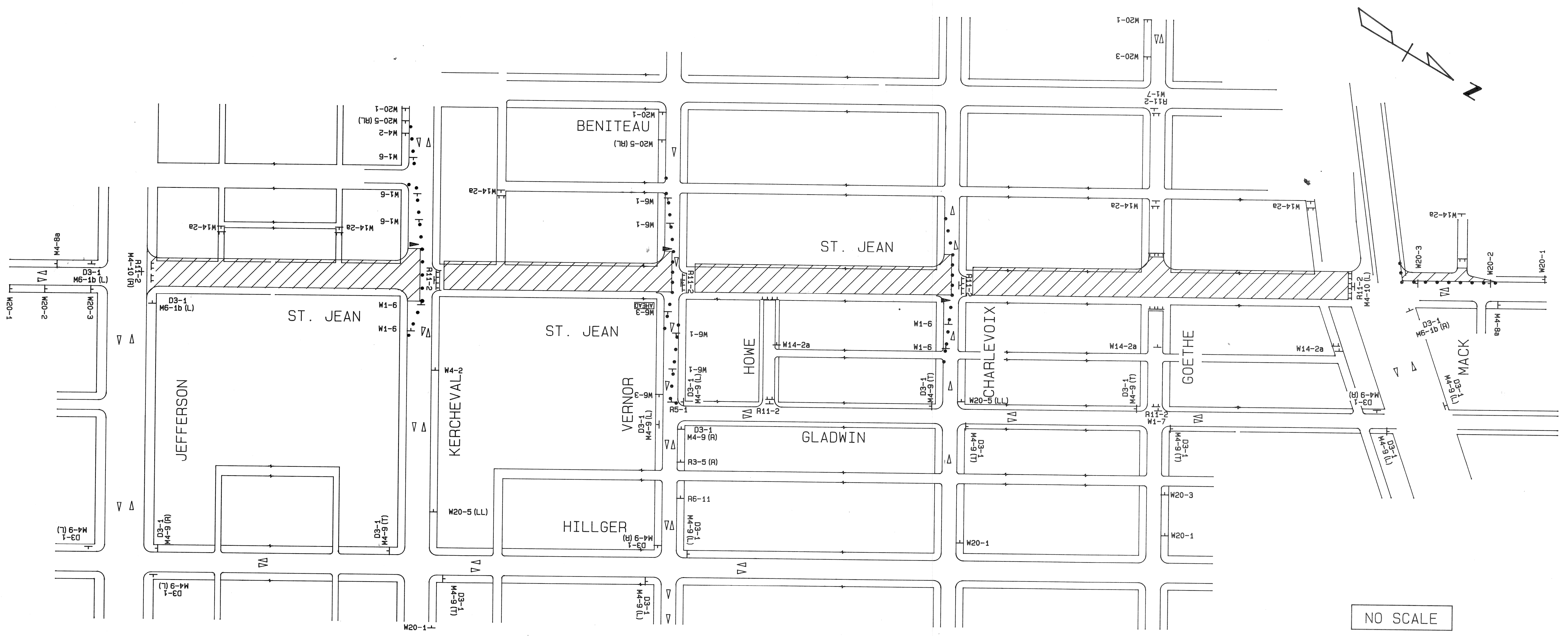


BENCH MARKS  
 ELEV. REV. EL. 118.27  
 1. BENCH MARK NO. 55-257 MON. BOX IN SIDEWALK NE CORNER OF MACK AVE. AND BENITEAU AVE.  
 NOTE  
 1. FOR ROAD CROSS-SECTIONS SEE DWG. NO. 4 (MACK AVE. TYPICAL CROSS-SECTIONS)  
 2. FOR MACK & ST. JEAN INTERSECTION DETAILS SEE DWG. NO. 19

**SURFACING LEGEND**

[Symbol]	CONSTRUCT SIDEWALK - 4"
[Symbol]	CONSTRUCT SIDEWALK - 6"
[Symbol]	STRIPPING & BIT. RESURFACING
[Symbol]	CONSTRUCT 2 1/4" BIT. SURF. ON 9" CONC. BASE PAVT NON-REINF WITH INTEGRAL CURB
[Symbol]	CONSTRUCT CATCH BASIN
[Symbol]	CONSTRUCT MANHOLE
[Symbol]	CONSTRUCT SEWER
[Symbol]	CONSTRUCT SIDEWALK RAMP (TYPE 3 SHOWN)
[Symbol]	BITUMINOUS SURFACING
[Symbol]	CONSTRUCT PAV'T 9" UNIF. CONC. REINF. WITH INTEGRAL CURB.
[Symbol]	CONSTRUCT INTEGRAL CURB & WALK
[Symbol]	SURFACE DRAINAGE FLOW





**CONSTRUCTION SIGNING & STAGING - ST. JEAN AVE., STAGE I.**

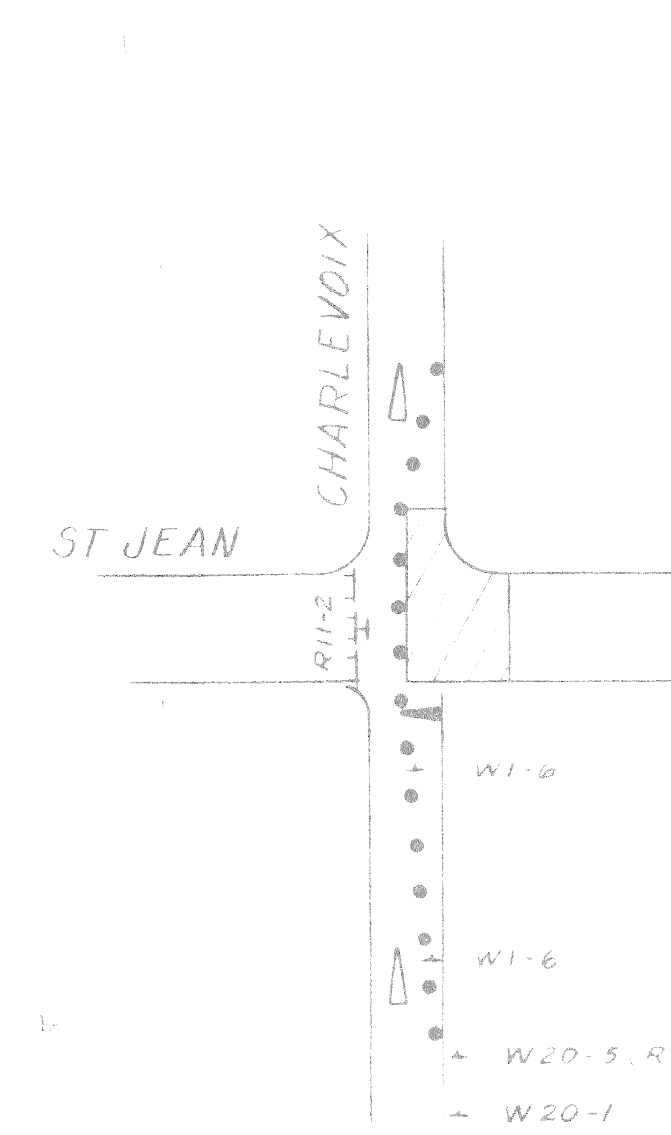
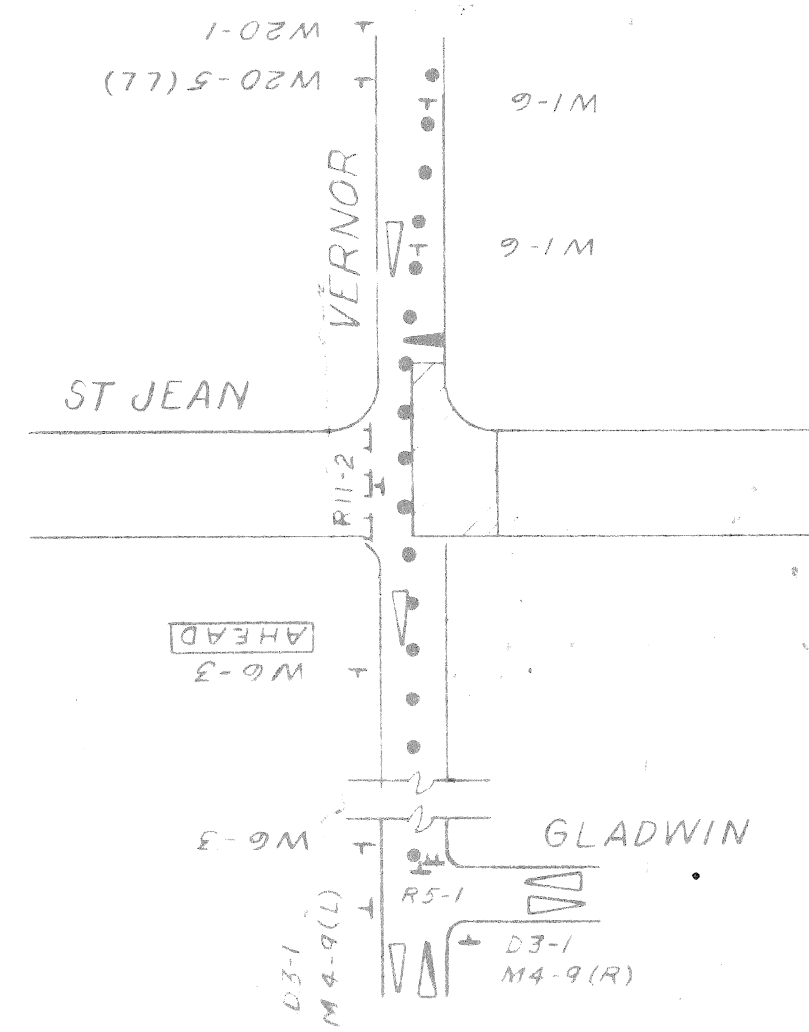
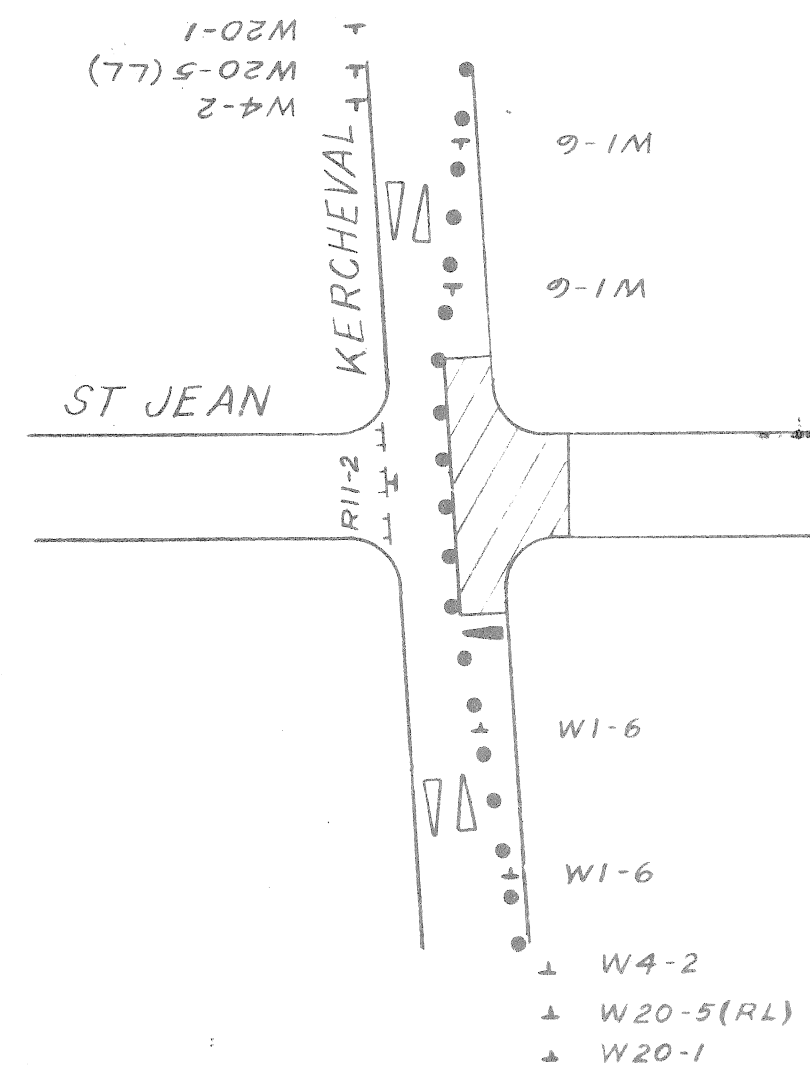
**NOTES**

1. FOR ST. JEAN STAGE II CONSTRUCTION SIGNING, SEE SH.#16.
2. FOR MACK AVE. CONSTRUCTION SIGNING, SEE SH.#16.
3. ALL TYPE II BARRICADE TAPERS, WHICH HAVE THE FUNCTION OF MOVING TRAFFIC OVER, SHALL BE ONE FOOT (1') IN TEN FEET (10').
4. TYPE II BARRICADE TAPERS LEAVING CONSTRUCTION AREAS SHALL BE OF 75' LENGTH.
5. ADVANCE WARNING SIGNS (SHOWN) SHALL BE LOCATED IN ACCORDANCE WITH CITY OF DETROIT AND/OR MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' REGULATIONS.
6. ALL TYPE II BARRICADES, TYPE III BARRICADES & LIGHTED ARROWS SHALL CONFORM TO MDT SPECIFICATIONS.

**LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
•	TYPE II BARRICADE (LIGHTED)	M4-10 (L)	DETOUR ARROW (LEFT)
⊥	TYPE III BARRICADE (LIGHTED)	M6-1b	DETOUR ARROW
+	CONSTRUCTION SIGN	M4-8a	DETOUR ENDS
▲	FLASHING ARROW	R1-1	STOP
▽	TRAFFIC DIRECTION	R3-5	RIGHT TURN ONLY
W20-1	CONSTRUCTION AHEAD	R4-7a	KEEP RIGHT
W20-2	DETOUR AHEAD	R5-1	DO NOT ENTER
W20-3	STREET CLOSED AHEAD	R6-11	ALL TRAFFIC MUST TURN
W20-5 (RL)	RIGHT LANE CLOSED AHEAD	R11-2	STREET CLOSED
W4-2	PAVEMENT WIDTH TRANSITION	(L)	LEFT
W1-6	DIRECTIONAL ARROW	(R)	RIGHT
W1-7	BOTH WAYS DIRECTIONAL ARROW	(T)	THROUGH
D3-1	ST. JEAN AVE.	(RL)	RIGHT LANE
M4-9 (R)	DETOUR ARROW, RIGHT	(LL)	LEFT LANE
W14-2a	ROAD ENDS	▨	CONSTRUCTION THIS STAGE
W6-3	TWO-WAY TRAFFIC ARROWS		

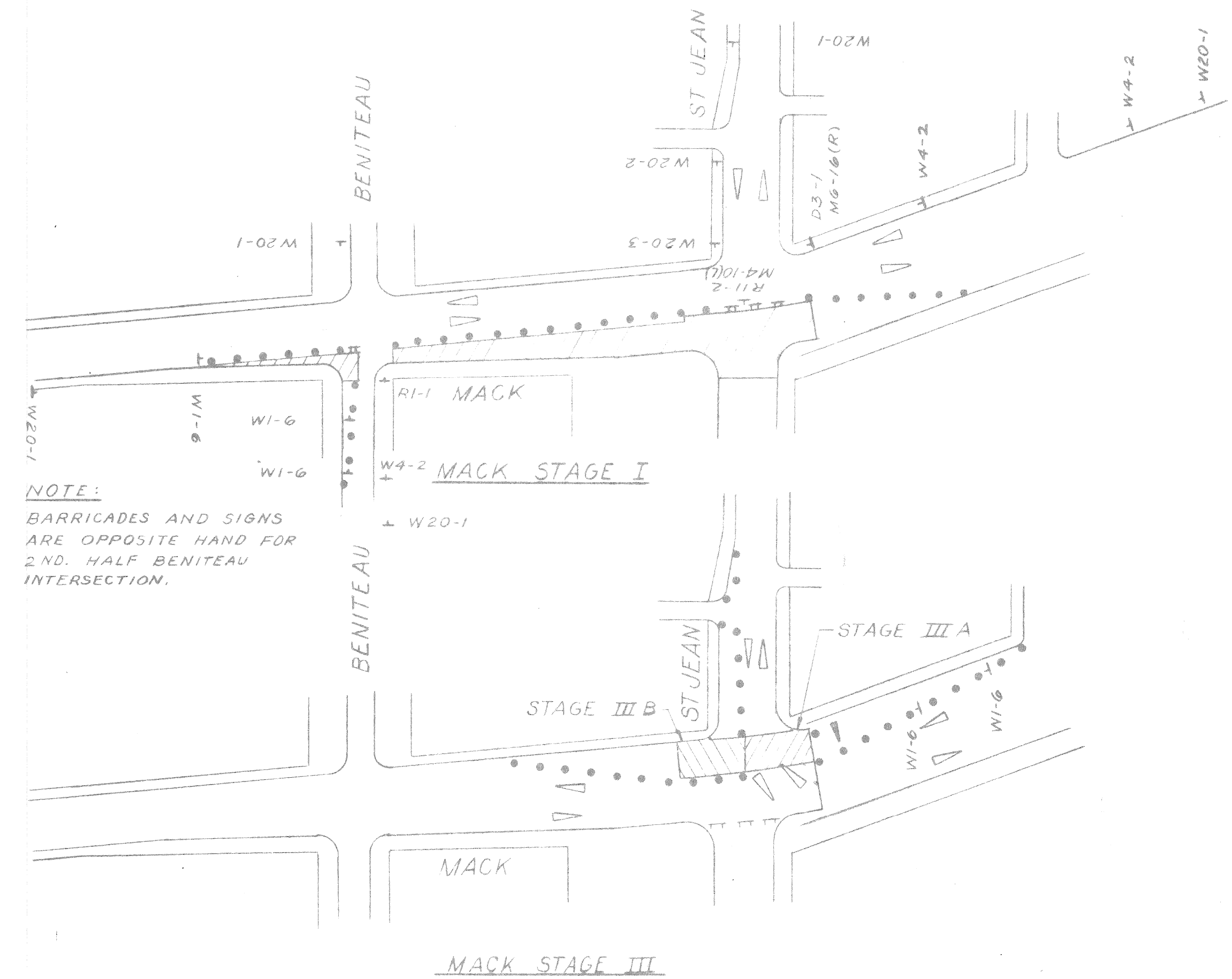
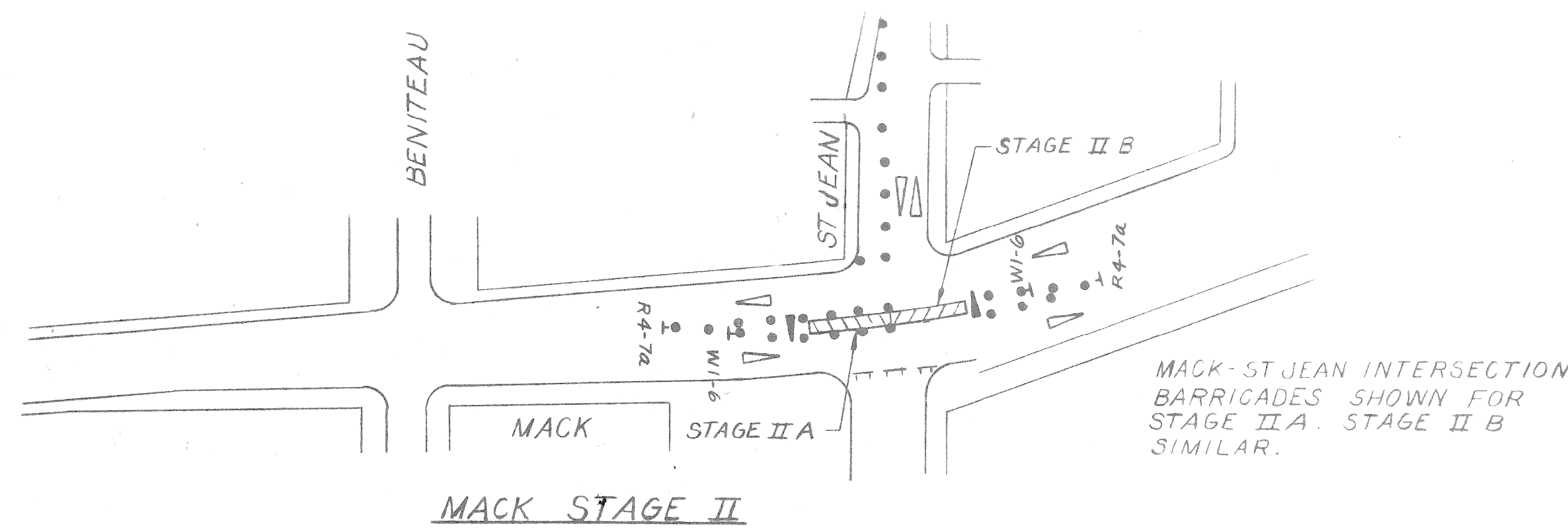
REVISIONS	DATE	DESCRIPTION	CHKD. BY	APPROV.	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	<b>CITY OF DETROIT</b> CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	<b>JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT</b> <b>ST. JEAN AVE. RECONSTRUCTION</b> <b>CONSTRUCTION SIGNING &amp; STAGING</b>	SHEET 15 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987



- LEGEND**
- CONSTRUCTION THIS STAGE
  - TYPE II BARRICADES
  - TYPE III BARRICADES
  - TRAFFIC DIRECTION
  - LIGHTED ARROW
  - TRAFFIC SIGN

CONSTRUCTION SIGNING & STAGING - ST. JEAN AVE., STAGE II.

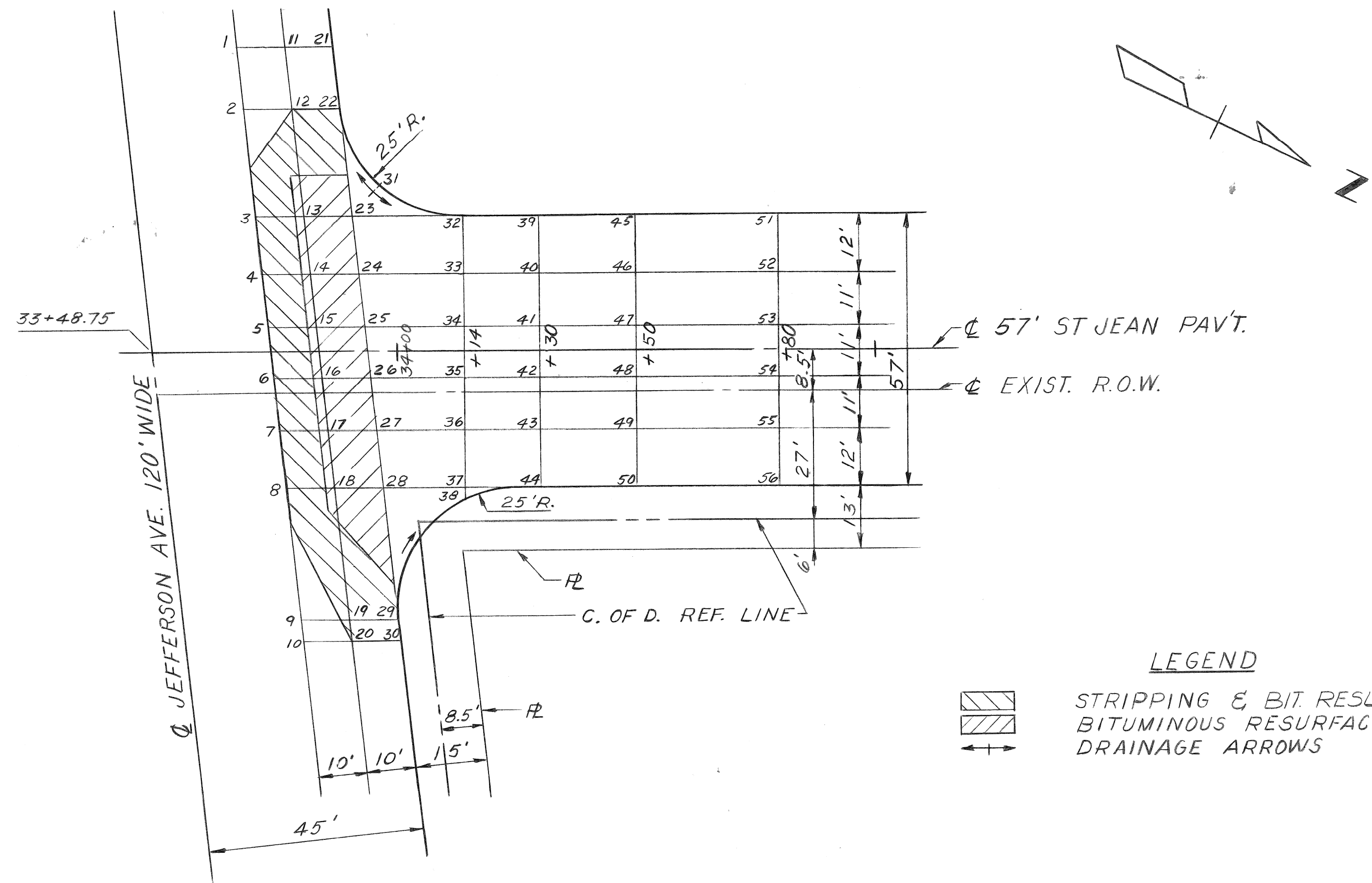
PLAN  
NO SCALE



CONSTRUCTION SIGNING & STAGING - MACK AVE.

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT		SHEET 16 OF 77 SHEETS CONTRACT NO. ASSIGNMENT NO. DATE JUNE 8, 1987
				CHECKED			ST. JEAN AVE. - RECONSTRUCTION		
				APPROVED			CONSTRUCTION SIGNING & STAGING		
				DATE					

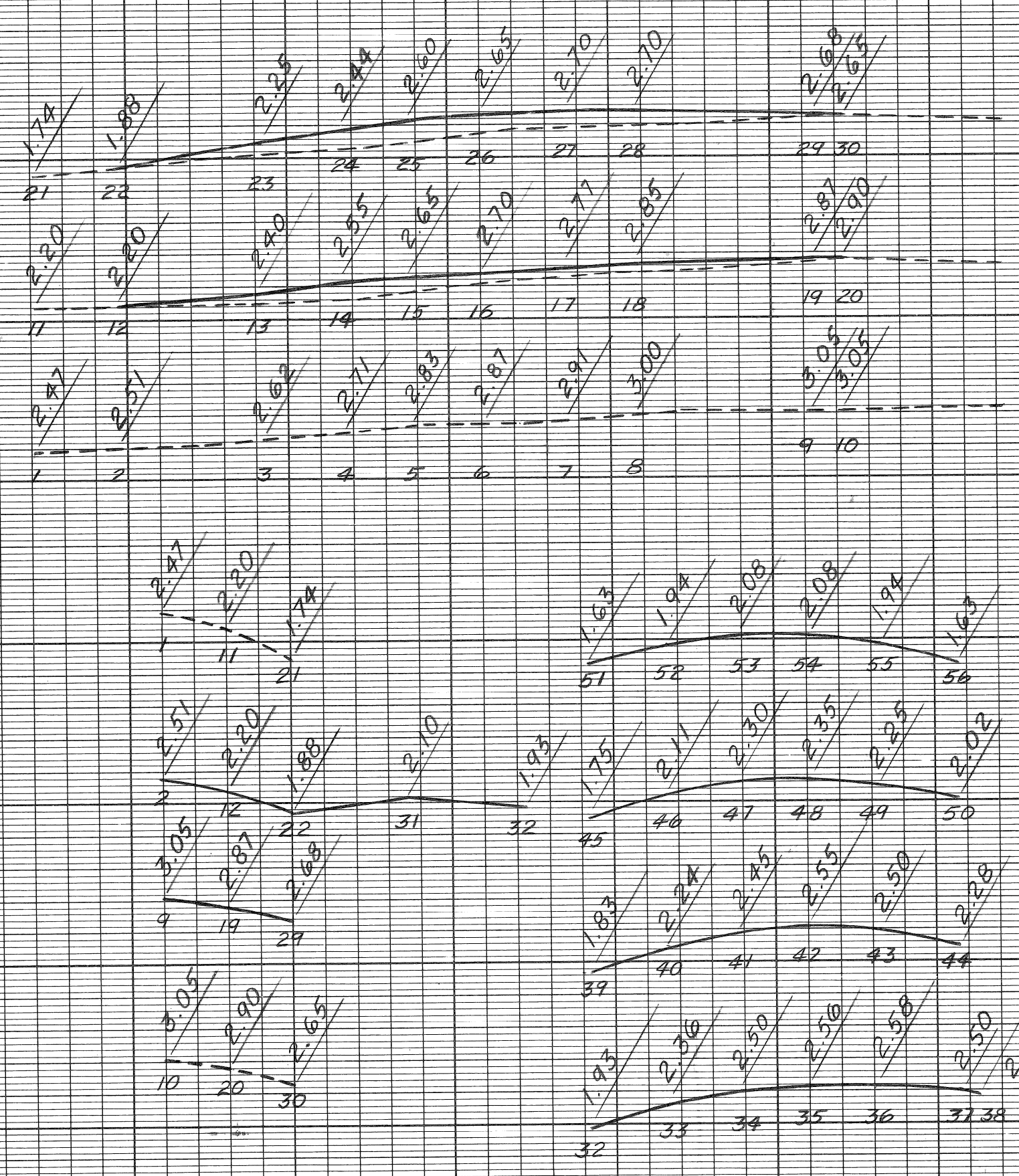
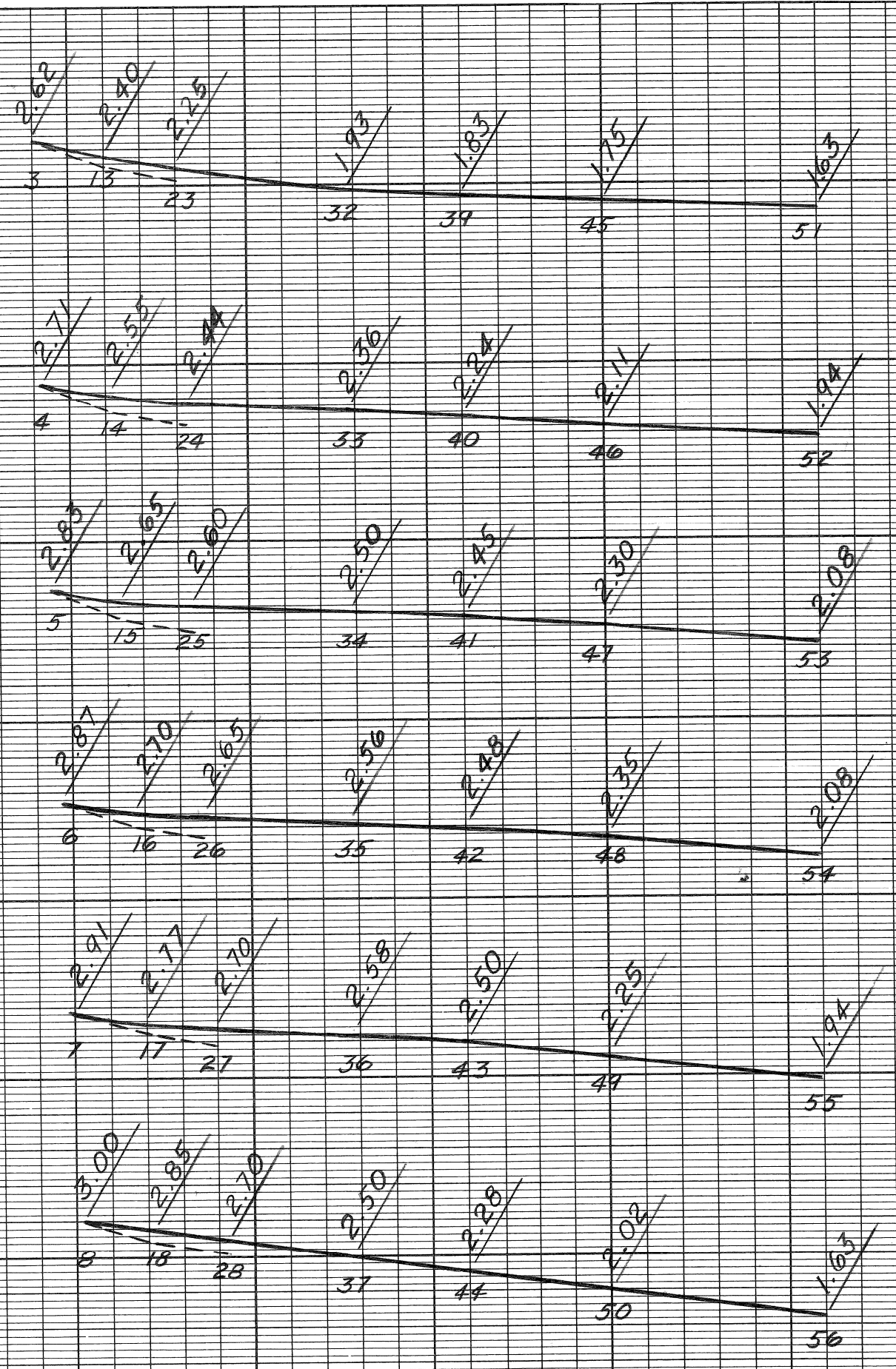




**LEGEND**

STRIPPING & BIT. RESURFACING.  
 BITUMINOUS RESURFACING, ONLY.  
 DRAINAGE ARROWS

**PLAN**  
SCALE: 1" = 20'



**PROFILES AND CROSS SECTIONS**  
SCALE: HOR: 1" = 20'  
VERT: 1" = 2'

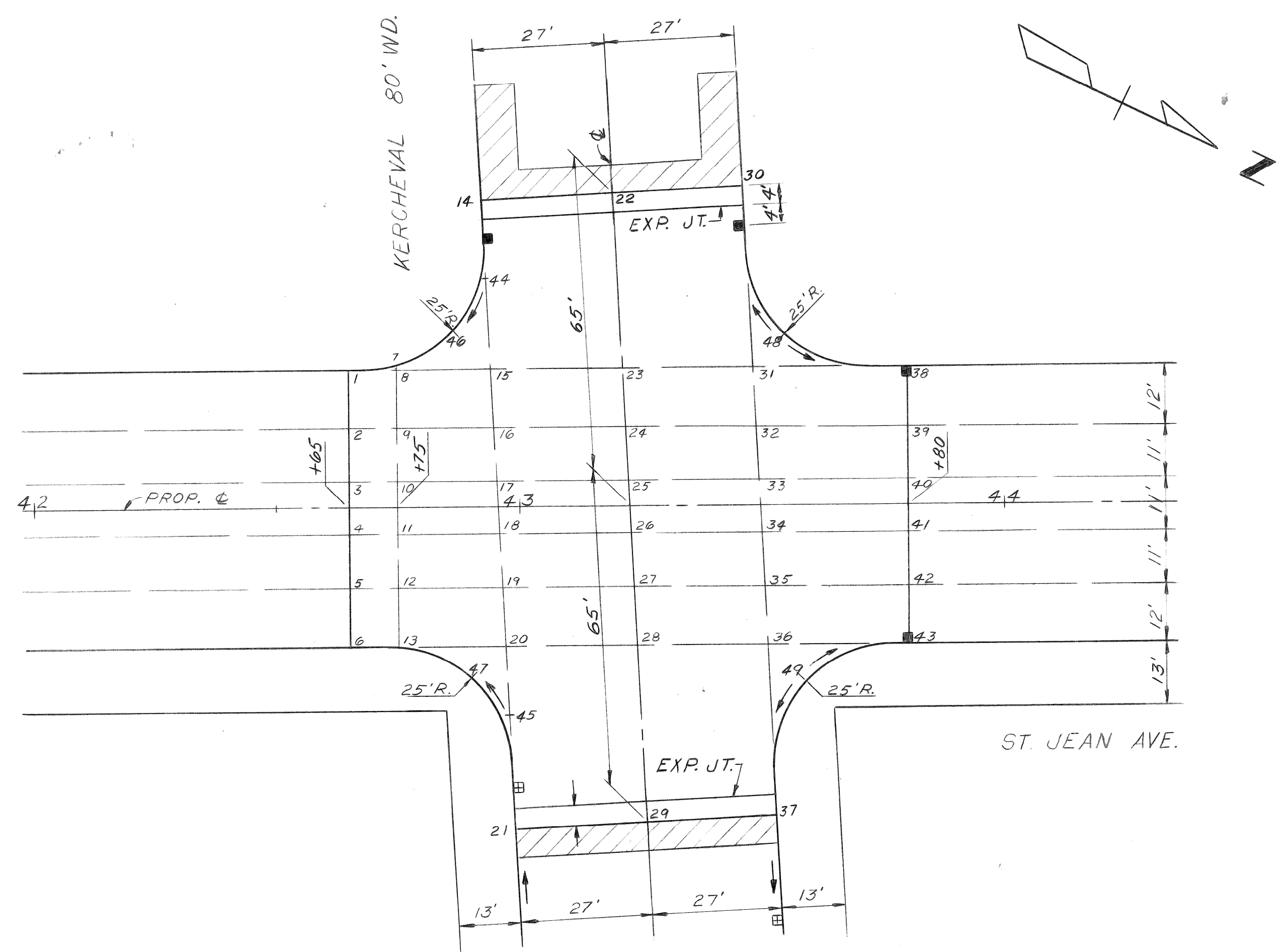
DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
16580 WYOMING DETROIT, MICH. 48221  
DRWG. NO. FILE NO.  
CEA 6006

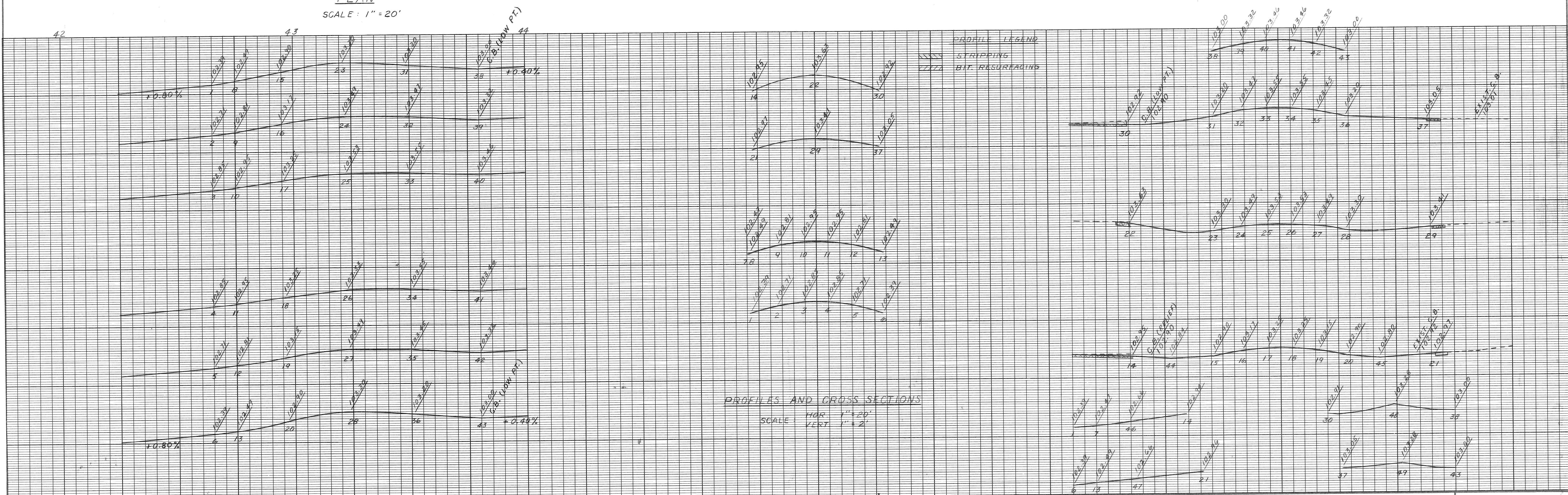
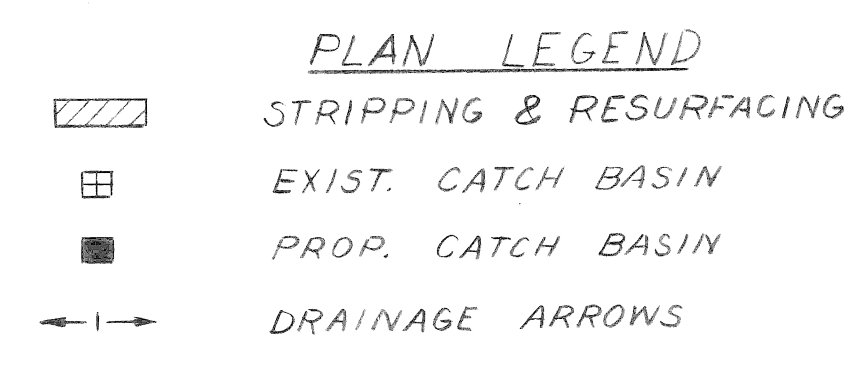
**CITY OF DETROIT**  
CITY ENGINEERING DEPARTMENT  
BUREAUS OF STREETS AND HIGHWAYS

**JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT**  
**ST. JEAN AVE. RECONSTRUCTION**  
**DETAILED GRADES - JEFFERSON AND ST. JEAN**

SHEET 17 OF 77 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE JUNE 8, 1987



PLAN  
SCALE: 1" = 20'



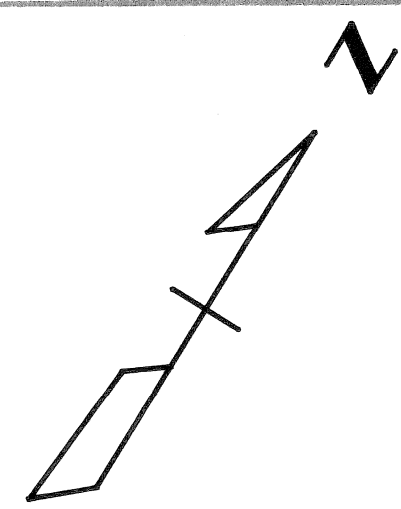
DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
16580 WYOMING DETROIT, MICH. 48221  
DRWG. NO. FILE NO. CEA 6006

CITY OF DETROIT  
CITY ENGINEERING DEPARTMENT  
BUREAUS OF STREETS AND HIGHWAYS

JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT  
ST. JEAN AVE. RECONSTRUCTION  
DETAILED GRADES - KERCHEVAL AND ST. JEAN

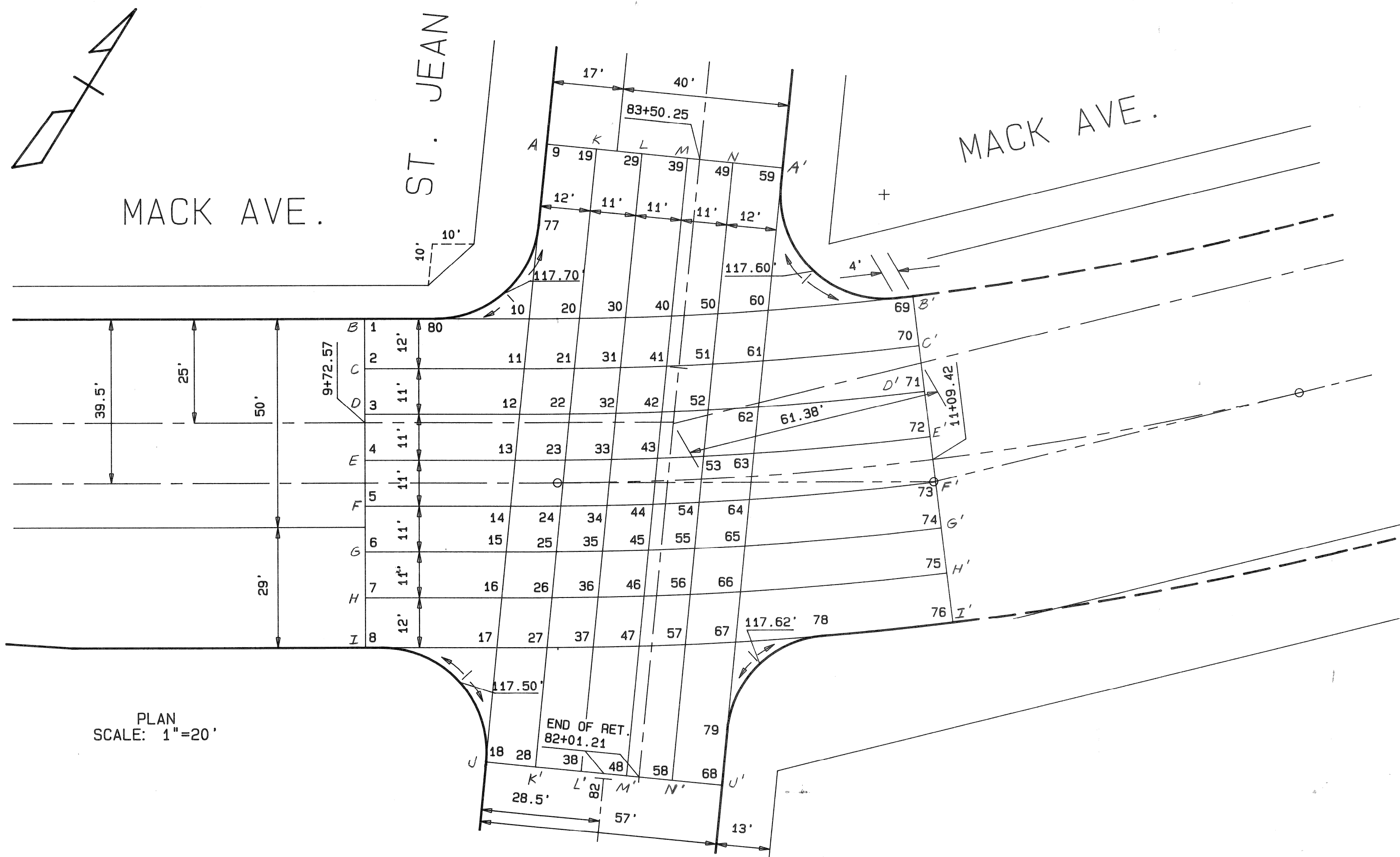
SHEET 18 OF 77 SHEETS  
CONTRACT NO.  
ASSIGNMENT NO.  
DATE JUNE 8, 1987



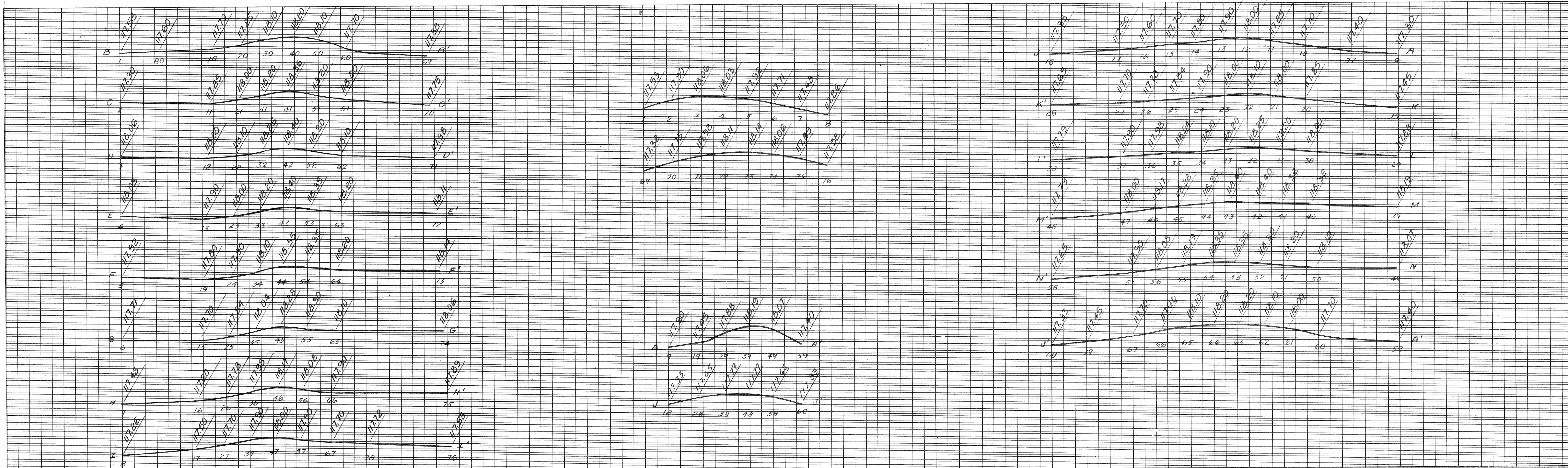
SCALE	HORIZONTAL	VERTICAL	BOOK NO.	PS.	DATE	LEVEL	REVISIONS
							REVISIONS

NOTE - FOR SYMBOLS ETC. SEE STANDARD DETAIL DRAWING NO. C-41

BENCH MARKS ELEV.



PLAN SCALE: 1"=20'



DATE	DESCRIPTION	CHKD. BY	DRAWN

PLAN PREPARED BY  
 CONSULTING ENGINEERING ASSOCIATES INC.  
 ENGINEERING CONSULTANTS  
 16580 WYOMING DETROIT, MICH. 48221  
 DRWG. NO. FILE NO. CEA 6006

CITY OF DETROIT  
 CITY ENGINEERING DEPARTMENT  
 BUREAU OF STREETS AND HIGHWAYS

JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT  
 ST. JEAN AVE. RECONSTRUCTION  
 DETAILED GRADES - MACK AND ST. JEAN

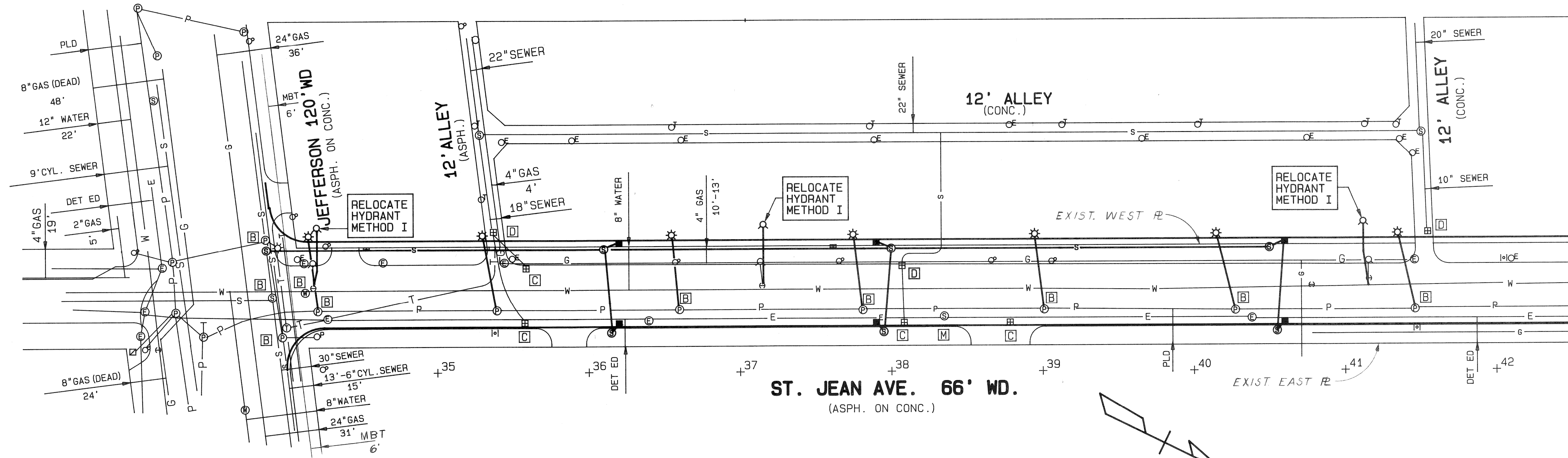
SHEET 19 OF 77 SHEETS  
 CONTRACT NO.  
 ASSIGNMENT NO.  
 DATE JUNE 8, 1987

DEFER PLACE 50' WD.

UTILITY LEGEND

- P—○ PLD CONDUIT & MANHOLE OR HANDHOLE
- S—○ SEWER & MANHOLE
- E—○ DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- G—○ MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- W—○ DWS WATER GATE OR MANHOLE & WATER MAIN
- T—○ MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- MICHIGAN BELL TELEPHONE CO. POLE
- PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- DETROIT EDISON POLE
- PLD OVERHEAD-FED LIGHT
- WATER SHUT-OFF
- DFD FIRE HYDRANT
- CATCH BASIN
- GAS DRIP OR GAS VALVE
- GUY POLE
- TRAFFIC SIGNAL CONTROLLER
- WATER METER
- PROPOSED CATCH BASIN
- ★ PLD UNDERGROUND-FED LIGHT
- ⊗ TRAFFIC SIGNAL ON PEDESTAL
- ⊗ TRAFFIC SIGNAL ON MAST ARM ON WOOD POLE
- ⊗ TRAFFIC SIGNAL ON MAST ARM ON METAL POLE
- ⊗ TRAFFIC SIGNAL ON A POLE
- △ POLICE CALL BOX
- NEW STEEL POLE

MATCH LINE STA. 42+50 THIS SHEET



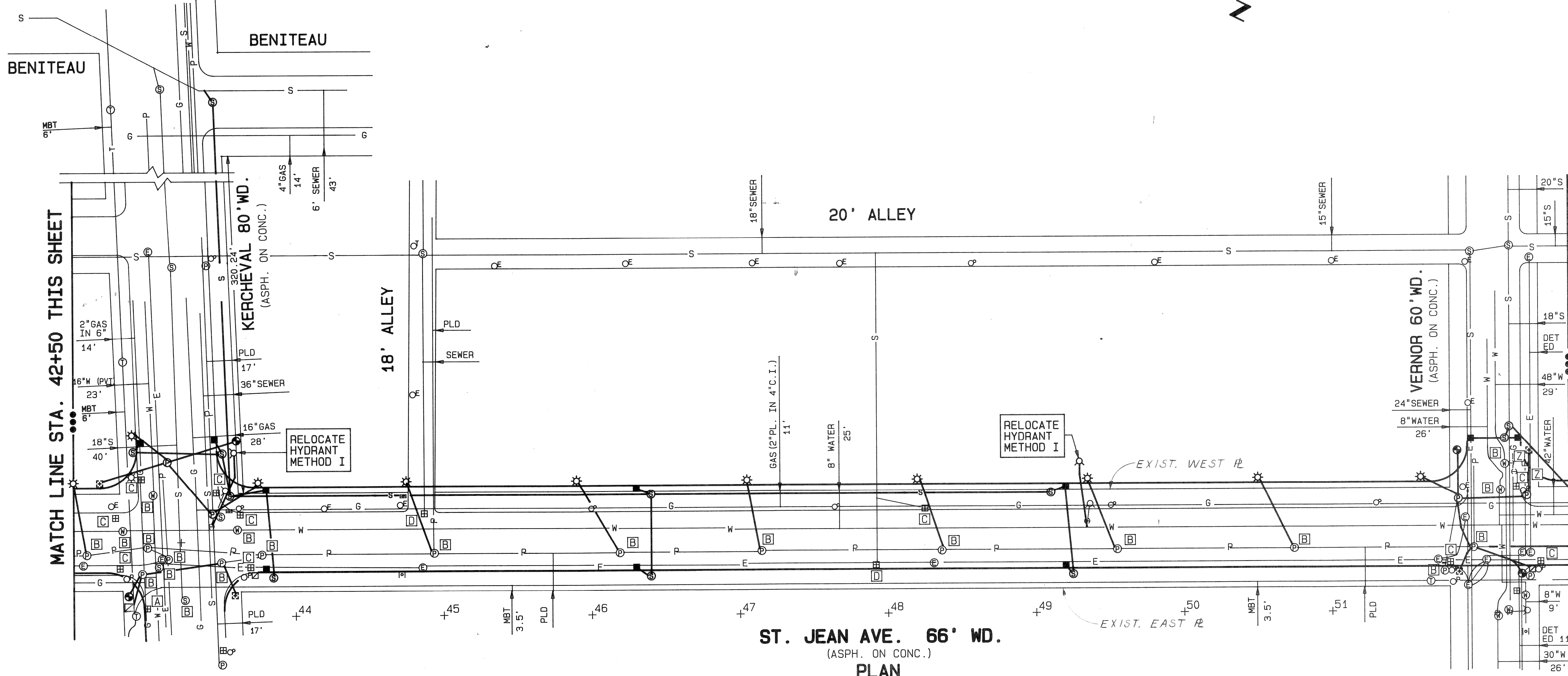
**NOTE:**  
 UTILITIES LINES & STRUCTURES PROPOSED AS PART OF THIS CONTRACT ARE SHOWN IN HEAVIER WEIGHT LINE. EXISTING UTILITIES AND UTILITIES CONSTRUCTED, OR PROPOSED TO BE CONSTRUCTED, AS PART OF THE SITE CLEARANCE FOR THE JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ARE SHOWN WITH LIGHT WEIGHT LINES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN THE STATUS OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.

CONSTRUCTION ITEMS

- [A] CATCH BASIN - ADJUSTMENT
- [B] MANHOLE - ADJUSTMENT
- [C] CATCH BASIN - ABANDONMENT
- [D] CATCH BASIN - SPECIAL ABANDONMENT
- [M] MANHOLE - (SEWER), ABANDONMENT
- [Z] STOP BOX ADJUSTMENT
- [K] MANHOLE - RECONSTRUCT CONE

CALL MISS DIG  
 48 HOURS PRIOR TO  
 CONSTRUCTION. 647-7344

**NOTE:**  
 LOCATIONS OF EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR COMPLETENESS OR ACCURACY.



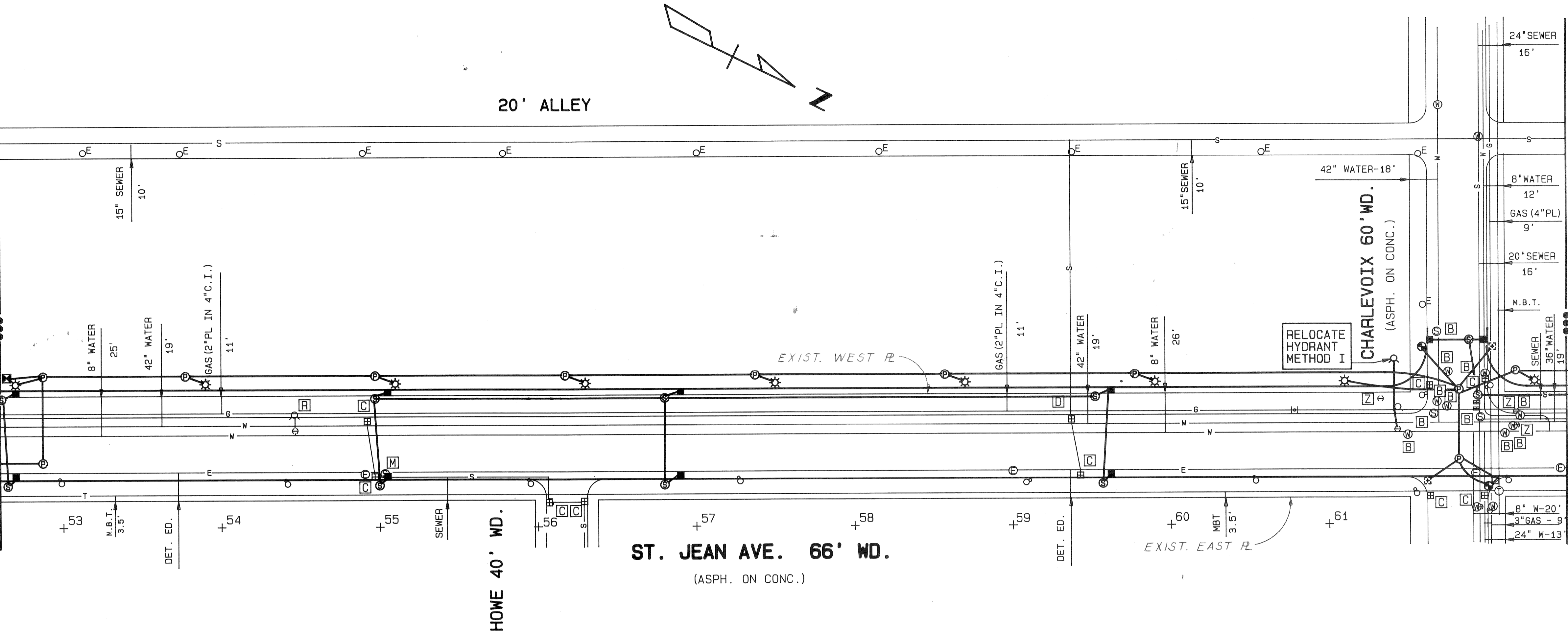
MATCH LINE STA. 52+60 SEE DRWG. NO. 21

ST. JEAN AVE. 66' WD.  
 (ASPH. ON CONC.)

PLAN  
 SCALE: 1"=40'

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION UTILITY DRAWING - JEFFERSON TO STA. 52+60	SHEET 20 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987

MATCH LINE STA. 52+60 SEE DRWG. NO. 20



MATCH LINE STA. 62+50 THIS SHEET

**UTILITY LEGEND**

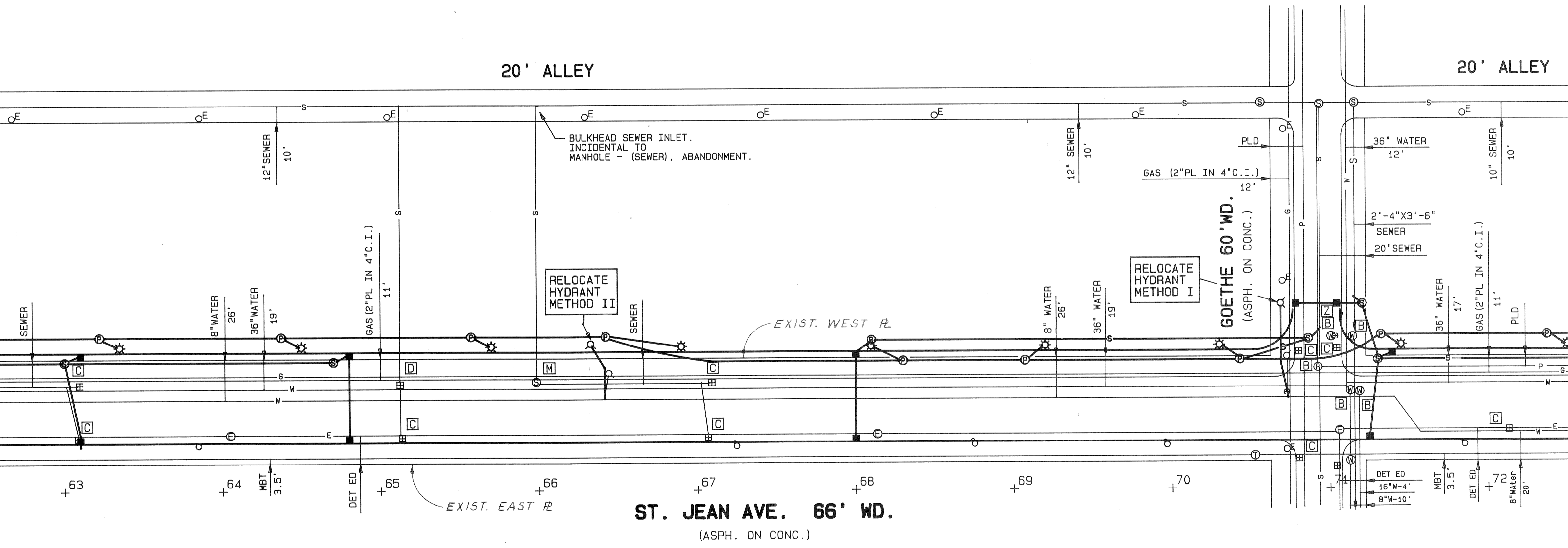
- P—○ PLD CONDUIT & MANHOLE OR HANDHOLE
- S—○ SEWER & MANHOLE
- E—○ DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- G—○ MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- W—○ DWSO WATER GATE OR MANHOLE & WATER MAIN
- T—○ MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- MICHIGAN BELL TELEPHONE CO. POLE
- PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- DETROIT EDISON POLE
- PLD OVERHEAD-POLE LIGHT
- WATER SHUT-OFF
- DFD FIRE HYDRANT
- CATCH BASIN
- GAS DRIP OR GAS VALVE
- GUY POLE
- TRAFFIC SIGNAL CONTROLLER
- WATER METER
- PROPOSED CATCH BASIN

**NOTE:**  
UTILITY LINES & STRUCTURES PROPOSED AS PART OF THIS CONTRACT ARE SHOWN IN HEAVIER WEIGHT LINE. EXISTING UTILITIES AND UTILITIES CONSTRUCTED, OR PROPOSED TO BE CONSTRUCTED, AS PART OF THE SITE CLEARANCE FOR THE JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ARE SHOWN WITH LIGHT WEIGHT LINES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN THE STATUS OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.

**CONSTRUCTION ITEMS**

- A CATCH BASIN - ADJUSTMENT
- B MANHOLE - ADJUSTMENT
- C CATCH BASIN - ABANDONMENT
- D CATCH BASIN - SPECIAL ABANDONMENT
- M MANHOLE - (SEWER), ABANDONMENT
- Z STOP BOX ADJUSTMENT
- K MANHOLE - RECONSTRUCT CONE

MATCH LINE STA. 62+50 THIS SHEET



MATCH LINE STA. 73+00 SEE DRWG. NO. 22

CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION. 647-7344

**NOTE:**  
LOCATIONS OF EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR COMPLETENESS OR ACCURACY.

**PLAN**  
SCALE: 1"=40'

52010101-01-01	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION UTILITY DRAWING - STA. 52+60 TO STA. 73+00	SHEET 21 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987

**CONSTRUCTION ITEMS**

- A CATCH BASIN - ADJUSTMENT
- B MANHOLE - ADJUSTMENT
- C CATCH BASIN - ABANDONMENT
- D CATCH BASIN - SPECIAL ABANDONMENT
- M MANHOLE - (SEWER), ABANDONMENT
- Z STOP BOX ADJUSTMENT
- K MANHOLE - RECONSTRUCT CONE

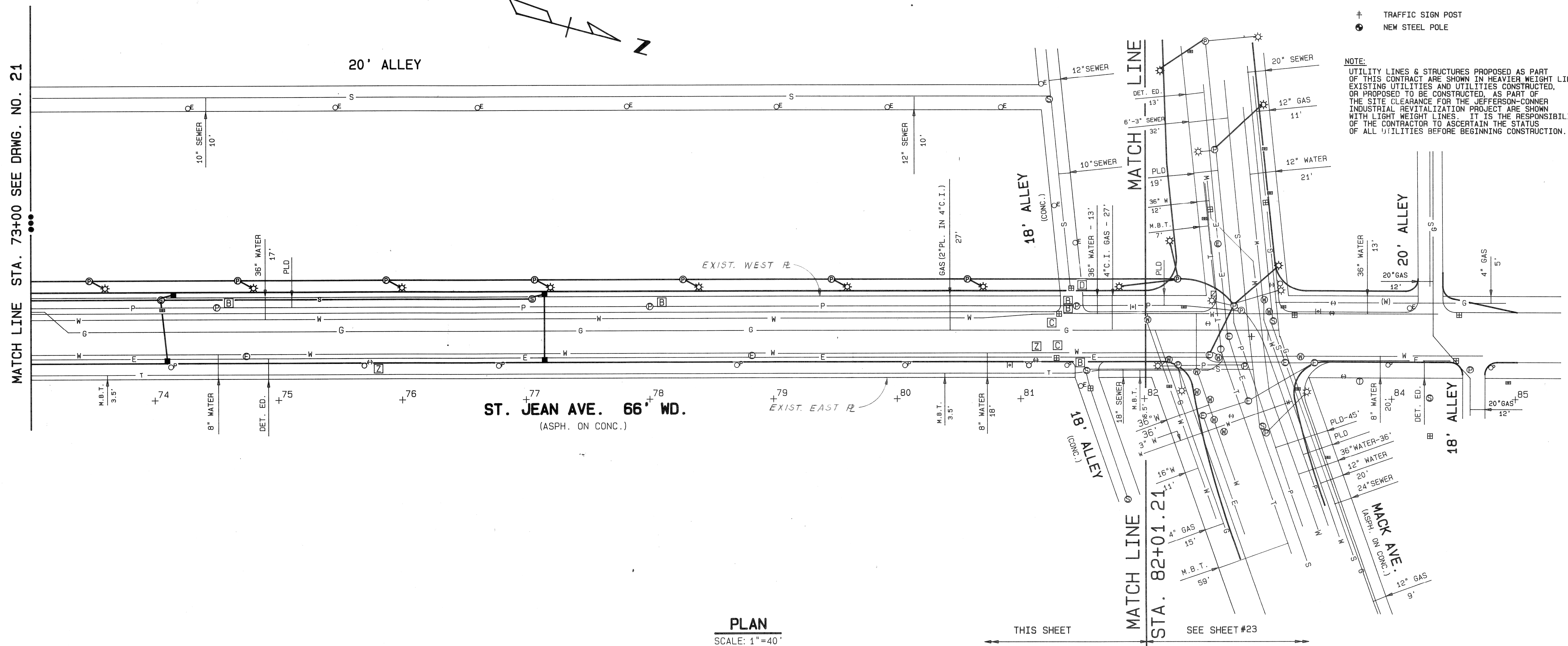
**UTILITY LEGEND**

- P-⊕ PLD CONDUIT & MANHOLE OR HANDHOLE
- S-⊕ SEWER & MANHOLE
- E-⊕ DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- G-⊕ MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- W-⊕ DWSD WATER GATE OR MANHOLE & WATER MAIN
- T-⊕ MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- ⊕ MICHIGAN BELL TELEPHONE CO. POLE
- ⊕<sup>P</sup> PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- ⊕<sup>E</sup> DETROIT EDISON POLE
- ⊕<sup>O</sup> PLD OVERHEAD-FED LIGHT
- ⊕<sup>W</sup> WATER SHUT-OFF
- ⊕<sup>F</sup> DFD FIRE HYDRANT
- ⊕ CATCH BASIN
- ⊕ GAS DRIP OR GAS VALVE
- ⊕ GUY POLE
- ⊕ TRAFFIC SIGNAL CONTROLLER
- ⊕ WATER METER
- ⊕ PROPOSED CATCH BASIN
- ⊕ PLD UNDERGROUND-FED LIGHT
- ⊕ TRAFFIC SIGNAL ON PEDESTAL
- ⊕ TRAFFIC SIGNAL ON MAST ARM ON WOOD POLE
- ⊕ TRAFFIC SIGNAL ON MAST ARM ON METAL POLE
- ⊕ TRAFFIC SIGNAL ON A POLE
- ⊕ POLICE CALL BOX
- + TRAFFIC SIGN POST
- ⊕ NEW STEEL POLE

CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION. 647-7344

NOTE:  
LOCATIONS OF EXISTING UTILITIES  
ARE BASED ON THE BEST AVAILABLE  
RECORDS AND ARE NOT GUARANTEED  
FOR COMPLETENESS OR ACCURACY.

NOTE:  
UTILITY LINES & STRUCTURES PROPOSED AS PART  
OF THIS CONTRACT ARE SHOWN IN HEAVIER WEIGHT LINE.  
EXISTING UTILITIES AND UTILITIES CONSTRUCTED,  
OR PROPOSED TO BE CONSTRUCTED, AS PART OF  
THE SITE CLEARANCE FOR THE JEFFERSON-CONNER  
INDUSTRIAL REVITALIZATION PROJECT ARE SHOWN  
WITH LIGHT WEIGHT LINES. IT IS THE RESPONSIBILITY  
OF THE CONTRACTOR TO ASCERTAIN THE STATUS  
OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.



**PLAN**  
SCALE: 1"=40'

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. RECONSTRUCTION UTILITY DRAWING - STA. 73+00 TO MACK		SHEET 22 OF 77 SHEETS
				CHECKED			CONTRACT NO.		
				APPROVED			ASSIGNMENT NO.		
				DATE			DATE JUNE 8, 1987		

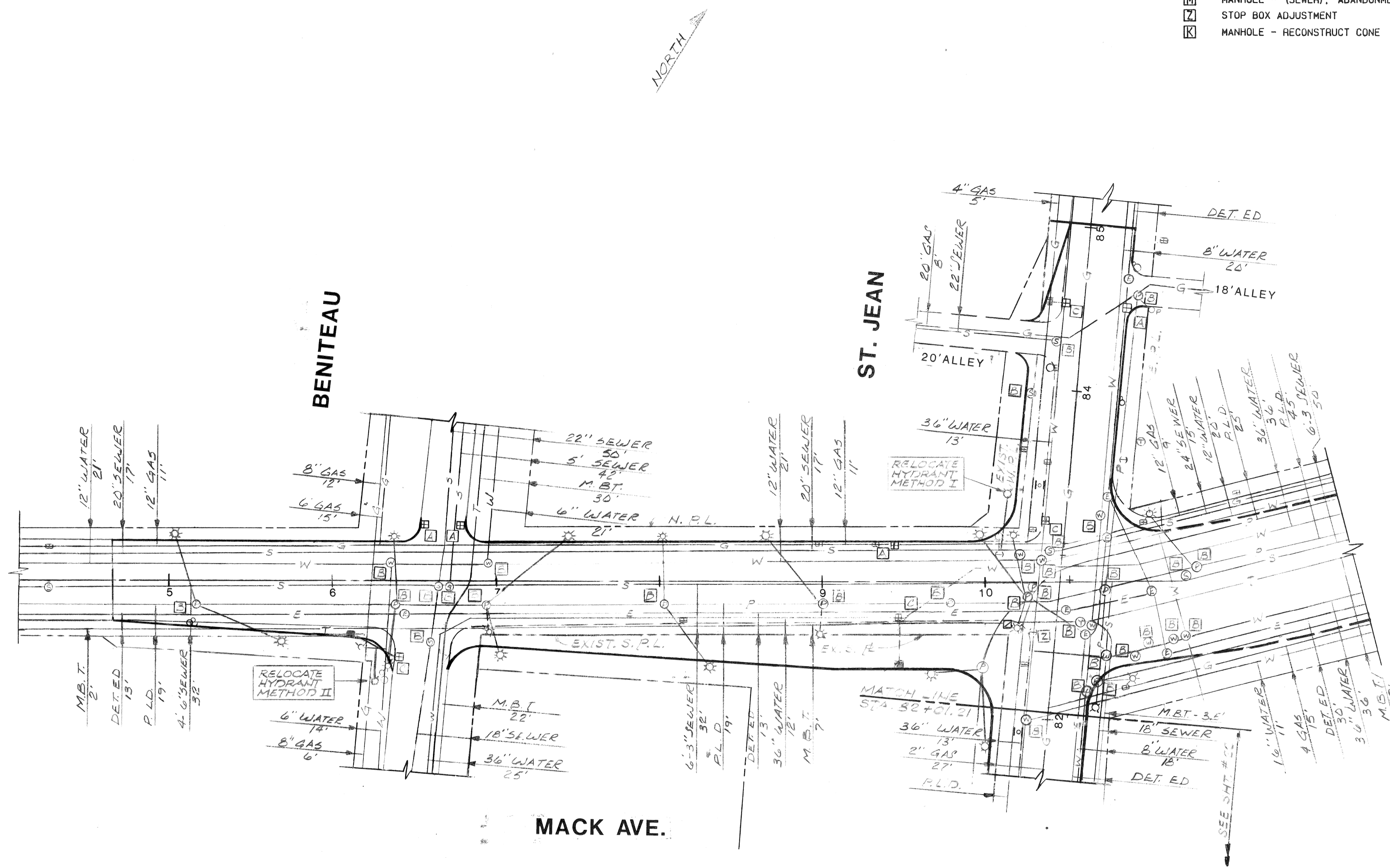
**CONSTRUCTION ITEMS**

- A** CATCH BASIN - ADJUSTMENT
- B** MANHOLE - ADJUSTMENT
- C** CATCH BASIN - ABANDONMENT
- D** CATCH BASIN - SPECIAL ABANDONMENT
- M** MANHOLE - (SEWER), ABANDONMENT
- N** STOP BOX ADJUSTMENT
- K** MANHOLE - RECONSTRUCT CONE

**UTILITY LEGEND**

- P—(C) PLD CONDUIT & MANHOLE OR HANDHOLE
- S—(C) SEWER & MANHOLE
- E—(C) DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- G—(C) MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- W—(C) DWSO WATER GATE OR MANHOLE & WATER MAIN
- T—(C) MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- ⊙ MICHIGAN BELL TELEPHONE CO. POLE
- ⊙<sup>P</sup> PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- ⊙<sup>E</sup> DETROIT EDISON POLE
- ⊙<sup>O</sup> PLD OVERHEAD-FED LIGHT
- ⊙<sup>H</sup> WATER SHUT-OFF
- ⊙<sup>F</sup> DFD FIRE HYDRANT
- ⊙ CATCH BASIN
- ⊙ GAS DRIP OR GAS VALVE
- ⊙ GUY POLE
- ⊙ TRAFFIC SIGNAL CONTROLLER
- ⊙ WATER METER
- PROPOSED CATCH BASIN
- ⊙<sup>U</sup> PLD UNDERGROUND-FED LIGHT
- ⊙<sup>T</sup> TRAFFIC SIGNAL ON PEDESTAL
- ⊙<sup>W</sup> TRAFFIC SIGNAL ON MAST ARM ON WOOD POLE
- ⊙<sup>M</sup> TRAFFIC SIGNAL ON MAST ARM ON METAL POLE
- ⊙ TRAFFIC SIGNAL ON A POLE
- △ POLICE CALL BOX
- † TRAFFIC SIGN POST
- ⊙ NEW STEEL POLE

**NOTE:**  
 UTILITY LINES & STRUCTURES PROPOSED AS PART OF THIS CONTRACT ARE SHOWN IN HEAVIER WEIGHT LINE. EXISTING UTILITIES AND UTILITIES CONSTRUCTED OR PROPOSED TO BE CONSTRUCTED, AS PART OF THE SITE CLEARANCE FOR THE JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ARE SHOWN WITH LIGHT WEIGHT LINES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN THE STATUS OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.

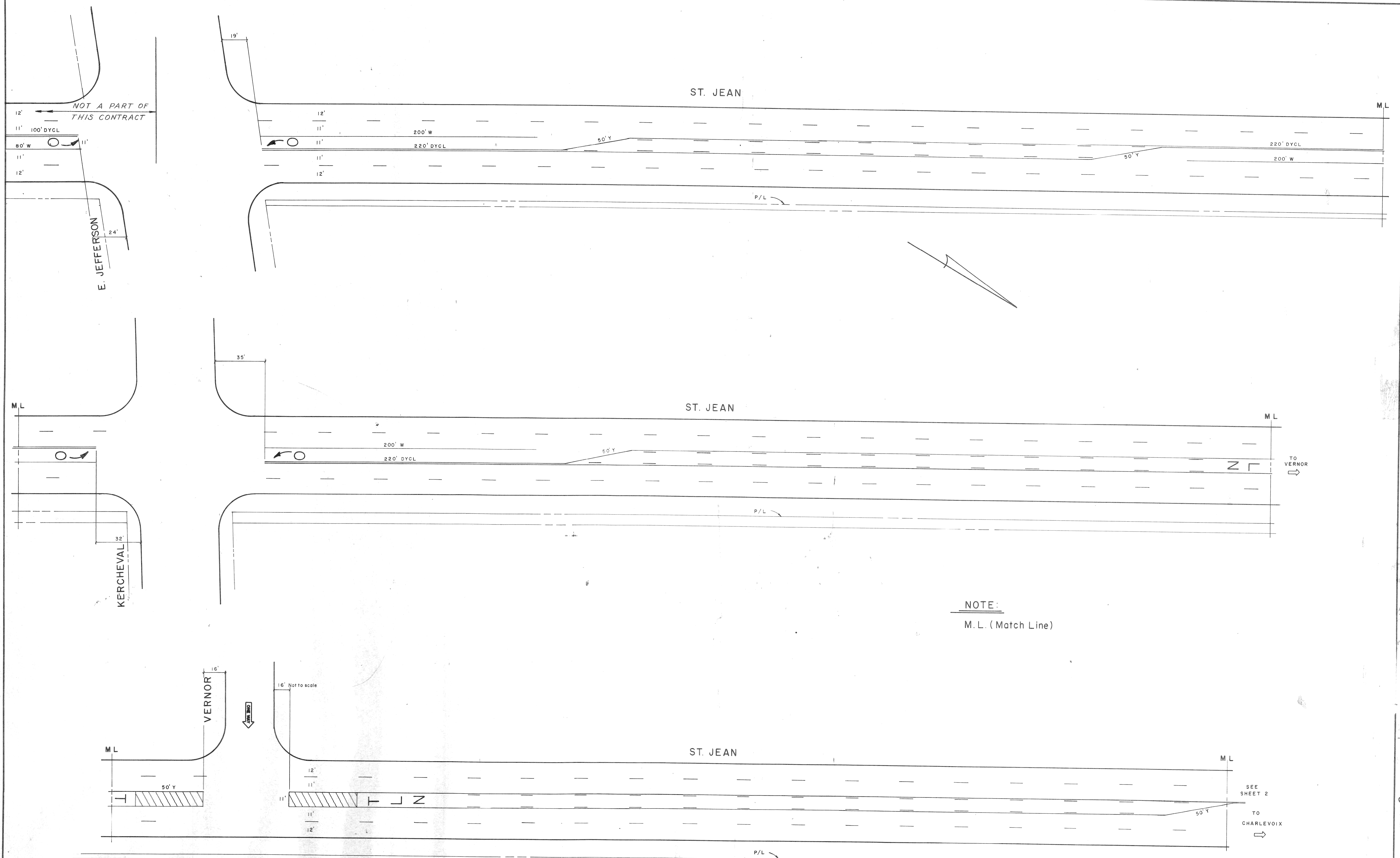


**PLAN**  
 SCALE: 1" = 40'

CALL MISS DIG  
 48 HOURS PRIOR  
 TO CONSTRUCTION  
 647-7344

LOCATION OF EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR COMPLETENESS OR ACCURACY.

SECTION	DATE	DESCRIPTION	CHKD. BY	DRWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	TUCKER, YOUNG JACKSON, TULL INC. CONSULTING ENGINEERS - PLANNERS 7101 Washington Blvd. Detroit, Michigan 48226 313-963-0612	JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT ST JEAN AVE. RECONSTRUCTION MACK & ST JEAN - UTILITIES PLAN	SHEET 23 OF 77 SHEETS
				CHECKED					CONTRACT NO.
				APPROVED					ASSIGNMENT NO.
				DATE					DATE JUNE 8, 1987



NOT A PART OF THIS CONTRACT

E. JEFFERSON

KERCHEVAL

VERNOR

ST. JEAN

ST. JEAN

ST. JEAN

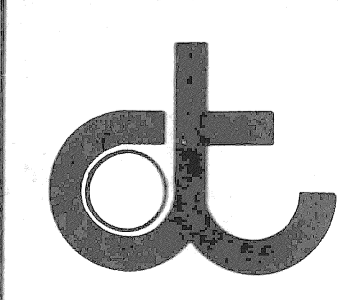
NOTE:  
M. L. (Match Line)

SEE SHEET 2  
TO CHARLEVOIX

NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

DESIGNED BY	EL / ER
DRAWN BY	ER
TRACED BY	
CHECKED BY	

APPROVED:	

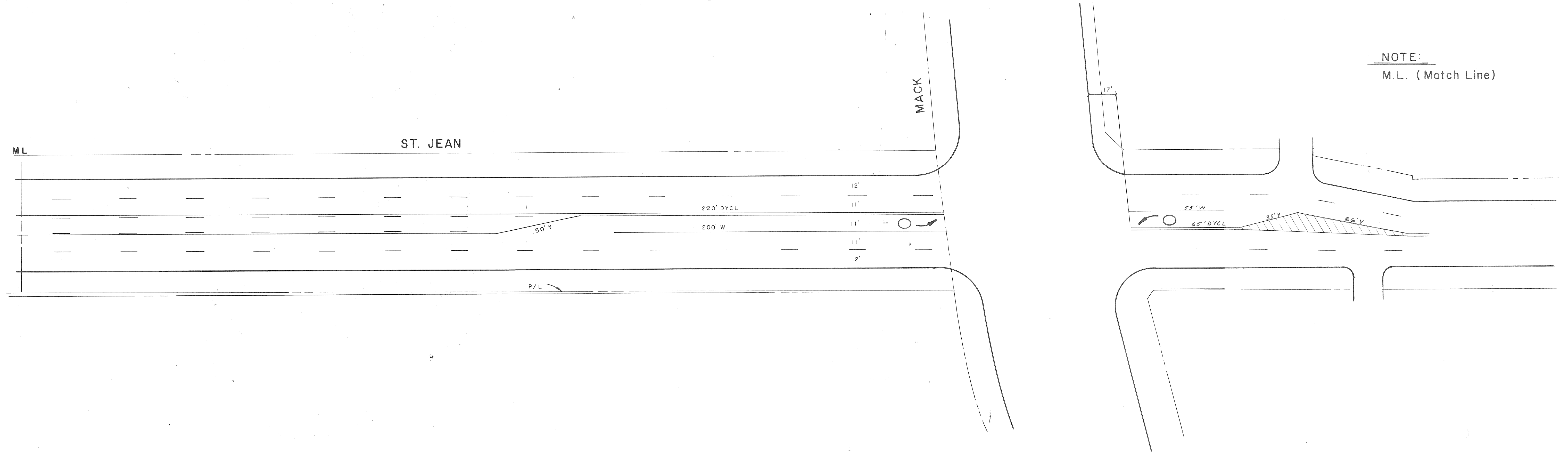
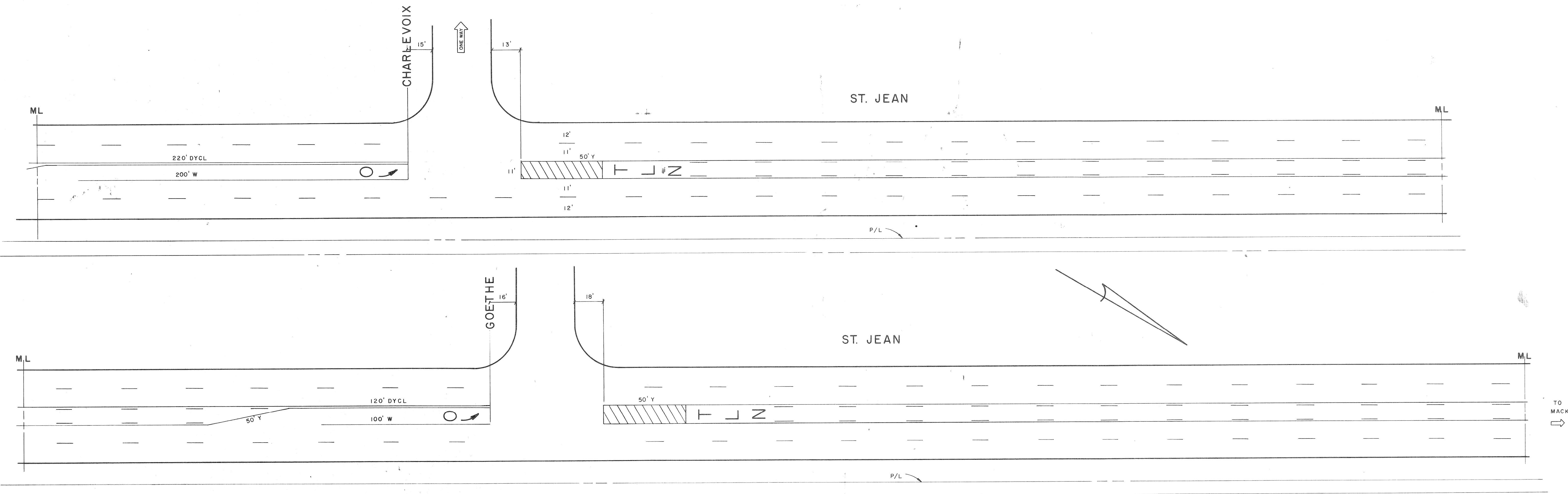


CITY OF DETROIT  
DEPARTMENT OF TRANSPORTATION  
PLANNING & TRAFFIC ENGINEERING

ST. JEAN RECONSTRUCTION  
E. JEFFERSON - MACK  
PAVEMENT MARKINGS

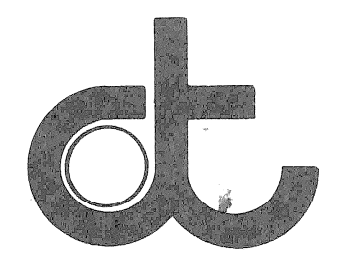
SHEET 24 OF 77 SHEETS
SCALE: 1" = 30'
DRWG No. L-93
DATE 4/22/87





COORD	DESCRIPTION	DRN	CK'D	APVD	DATE

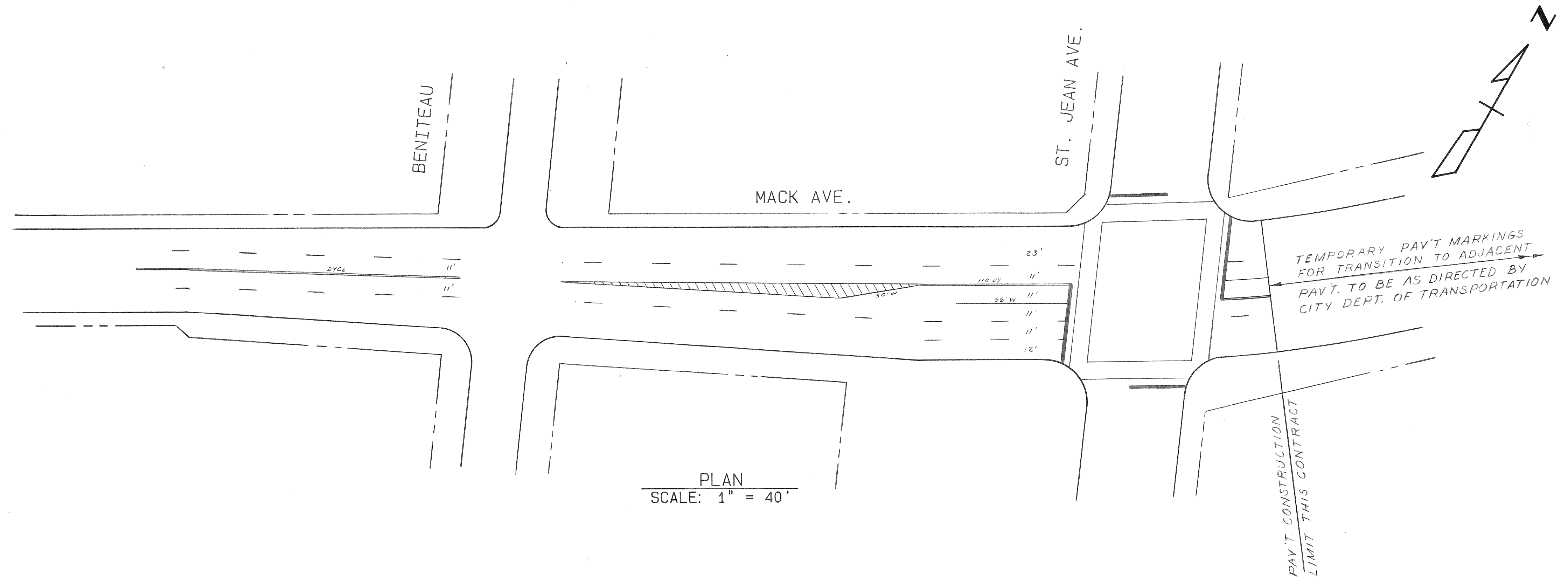
DESIGNED BY	EL/ER	APPROVED:
DRAWN BY	ER	
TRACED BY		
CHECKED BY		



CITY OF DETROIT  
DEPARTMENT OF TRANSPORTATION  
PLANNING & TRAFFIC ENGINEERING

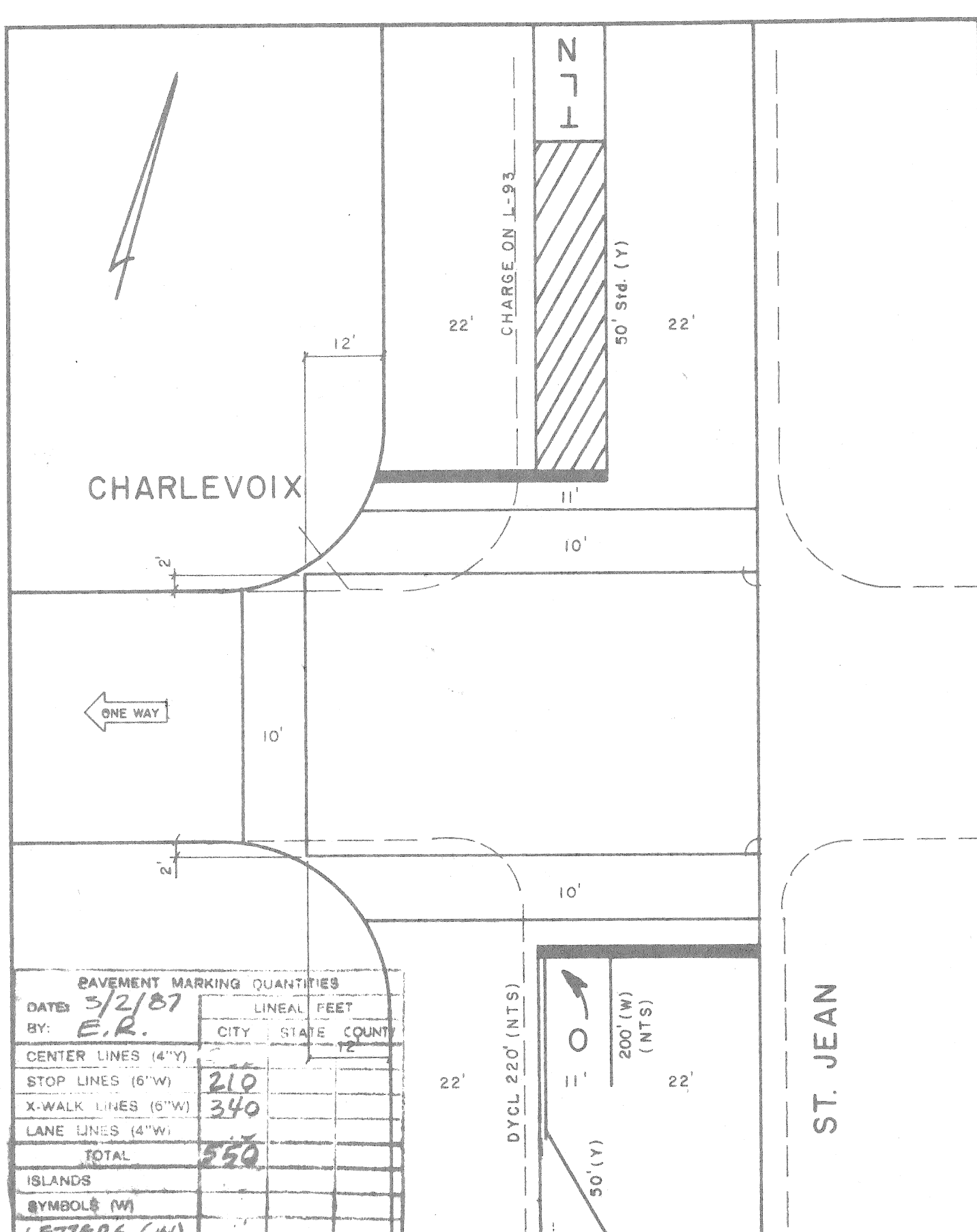
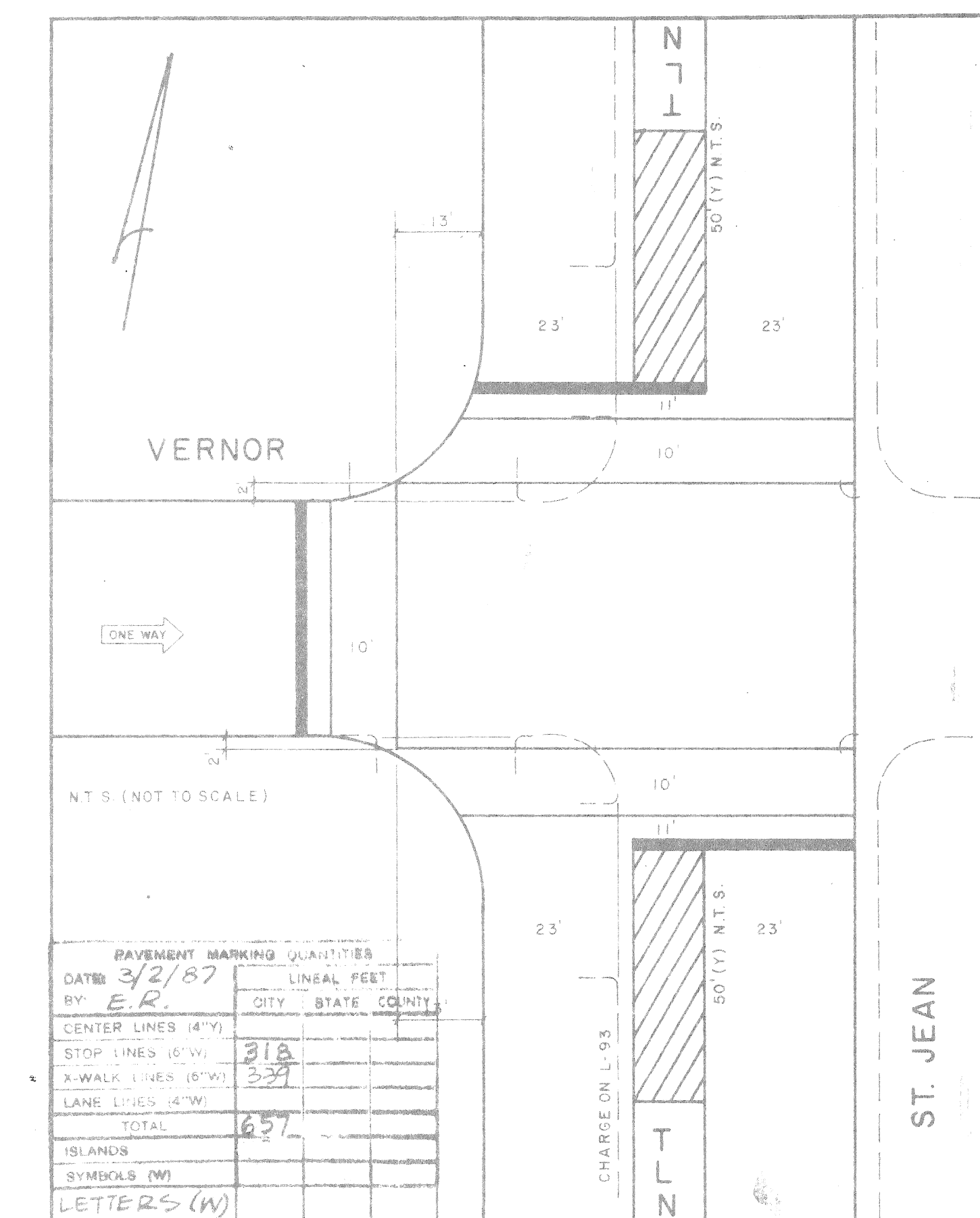
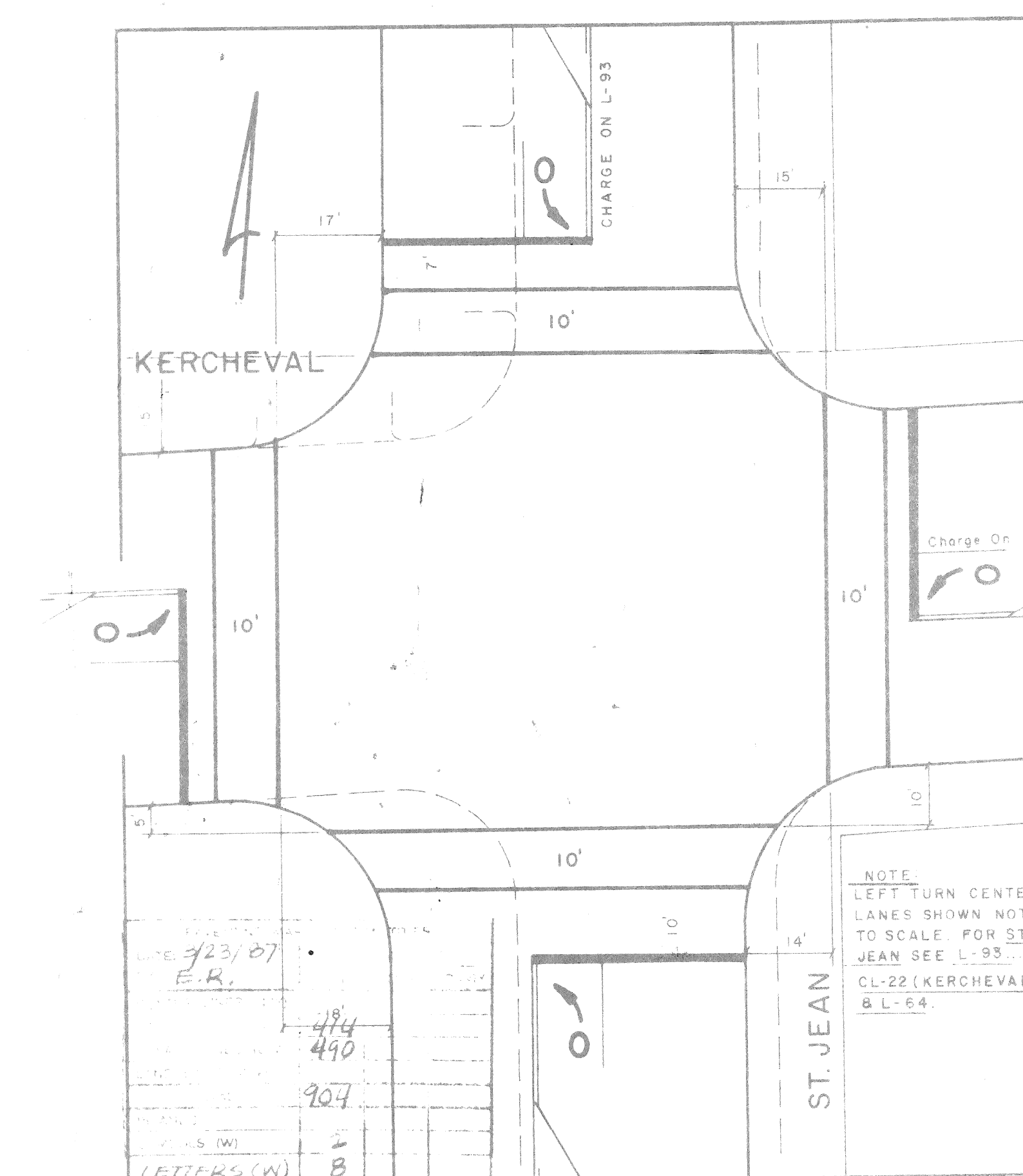
ST. JEAN RECONSTRUCTION  
E. JEFFERSON - MACK  
PAVEMENT MARKINGS

SHEET 25 OF 77 SHEETS
SCALE: 1" = 30'
DRWG No. L - 93
DATE 4/23/87



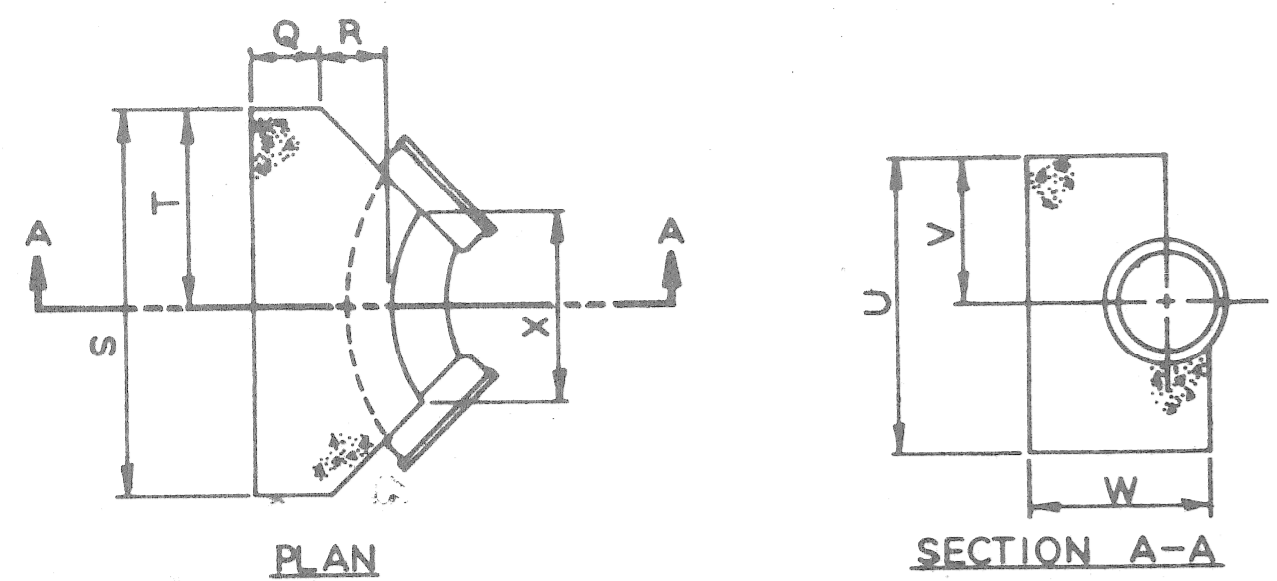
NOTE  
FOR ADDITIONAL PAVEMENT MARKINGS FOR MACK & ST. JEAN INTERSECTION, SEE SHEET #27.

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. - RECONSTRUCTION MACK AVE. PAVEMENT MARKINGS	SHEET 26 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987
			DRWG. NO.	FILE NO.	CEA 6006			



PLAN  
SCALE: 1" = 20'

REVISIONS	DATE	DESCRIPTION	CHKD. BY	Dwn	PLAN PREPARED BY CONSULTING ENGINEERS ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DWG. NO. FILE NO. CEA 6006	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT ST. JEAN AVE. - RECONSTRUCTION INTERSECTION PAVEMENT MARKINGS	SHEET 27 OF 77 SHEETS
				CHECKED				CONTRACT NO.
				APPROVED				ASSIGNMENT NO.
				DATE				DATE JUNE 8, 1987



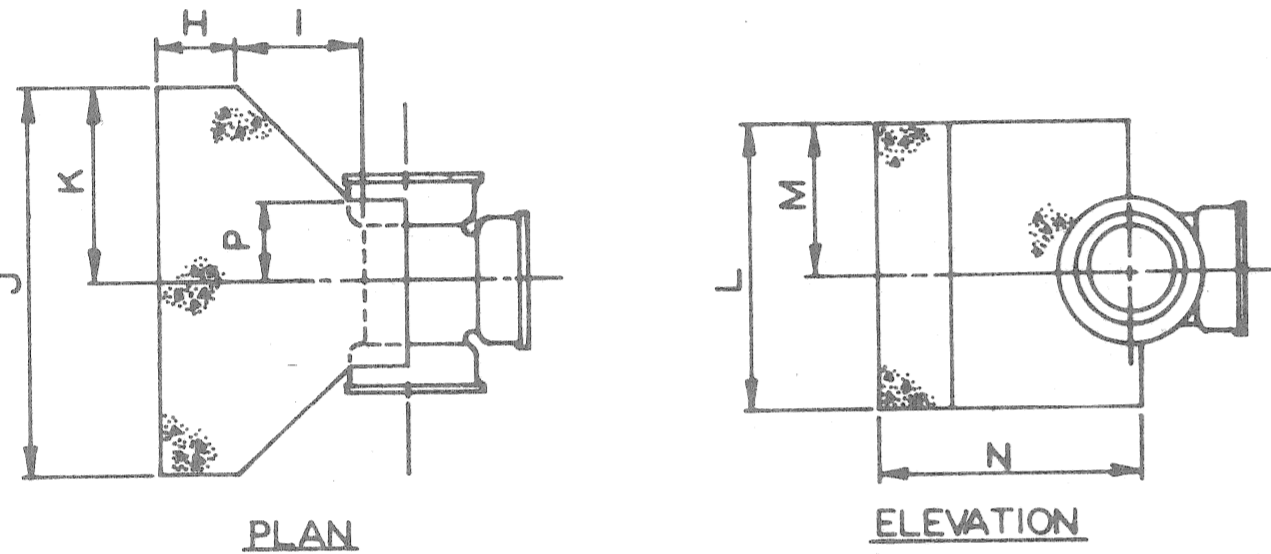
**SCHEDULE OF THRUST BLOCK DIMENSIONS**

BEND SIZE	Q	R	S	T	U	V	W	X
6"-22 1/2" x 45"	0'-9"	1'-0"	2'-0"	1'-0"	1'-6"	0'-9"	1'-11"	1'-4"
6"-90"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"	1'-2"
8"-22 1/2" x 45"	0'-9"	1'-0"	2'-4"	1'-2"	2'-0"	1'-0"	1'-11"	1'-4"
8"-90"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	1'-11"	1'-2"
12"-22 1/2" x 45"	0'-9"	1'-0"	2'-6"	1'-3"	2'-0"	1'-0"	2'-0"	1'-4"
12"-45"	0'-9"	1'-4"	3'-6"	1'-9"	2'-6"	1'-5"	2'-4"	1'-4"
12"-90"	0'-9"	1'-4"	5'-6"	2'-9"	3'-0"	1'-6"	2'-4"	1'-8"
16"-22 1/2" x 45"	1'-0"	1'-8"	3'-4"	1'-8"	2'-6"	1'-3"	3'-0"	1'-2"
16"-45"	1'-0"	1'-8"	5'-4"	2'-8"	3'-0"	1'-6"	3'-0"	2'-6"
16"-90"	1'-0"	1'-8"	6'-0"	3'-0"	5'-0"	2'-6"	3'-0"	2'-8"

DETAIL OF STANDARD THRUST BLOCKS FOR BENDS

Not to Scale

**NOTES**  
The bearing face of all Thrust Blocks shall be poured against undisturbed earth. Thrust Blocks when required for vertical bends are shown by special details.

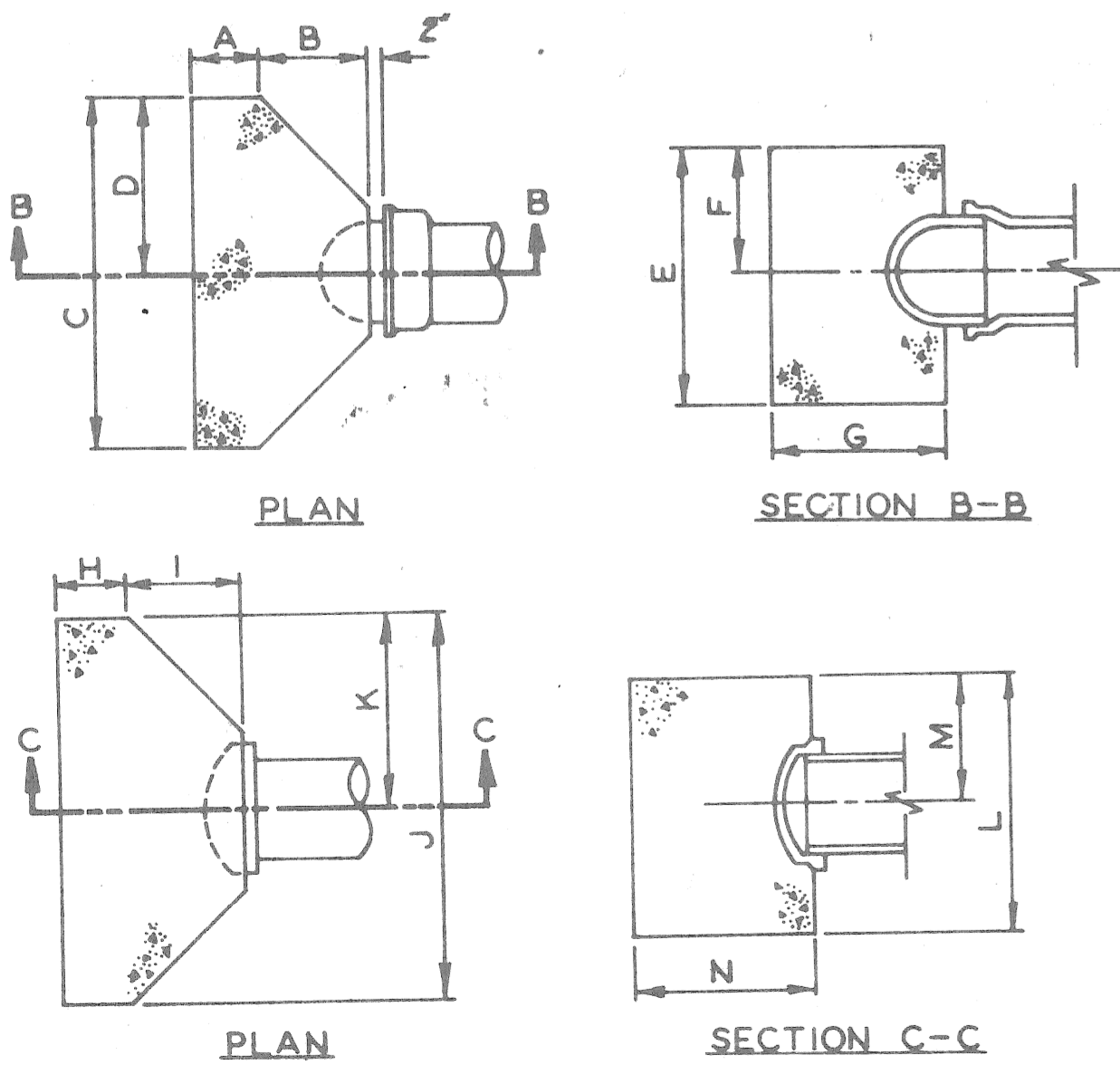


**SCHEDULE OF THRUST BLOCK DIMENSIONS**

TEE SIZE	H	I	J	K	L	M	N	P
6"x6"	0'-9"	1'-0"	2'-6"	1'-3"	1'-6"	0'-9"	2'-3"	0'-6"
8"x8"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	2'-3"	0'-6"
10"x10"	0'-9"	1'-2"	3'-6"	1'-9"	2'-6"	1'-3"	2'-7"	0'-7"
12"x8"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	2'-5"	0'-6"
12"x12"	0'-9"	1'-4"	4'-0"	2'-0"	1'-6"	1'-6"	2'-9"	0'-8"
16"x8"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	2'-9"	0'-6"
16"x12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	3'-1"	0'-8"
16"x16"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"	3'-8"	0'-11"

DETAIL OF STANDARD THRUST BLOCKS FOR TEES

Not to Scale



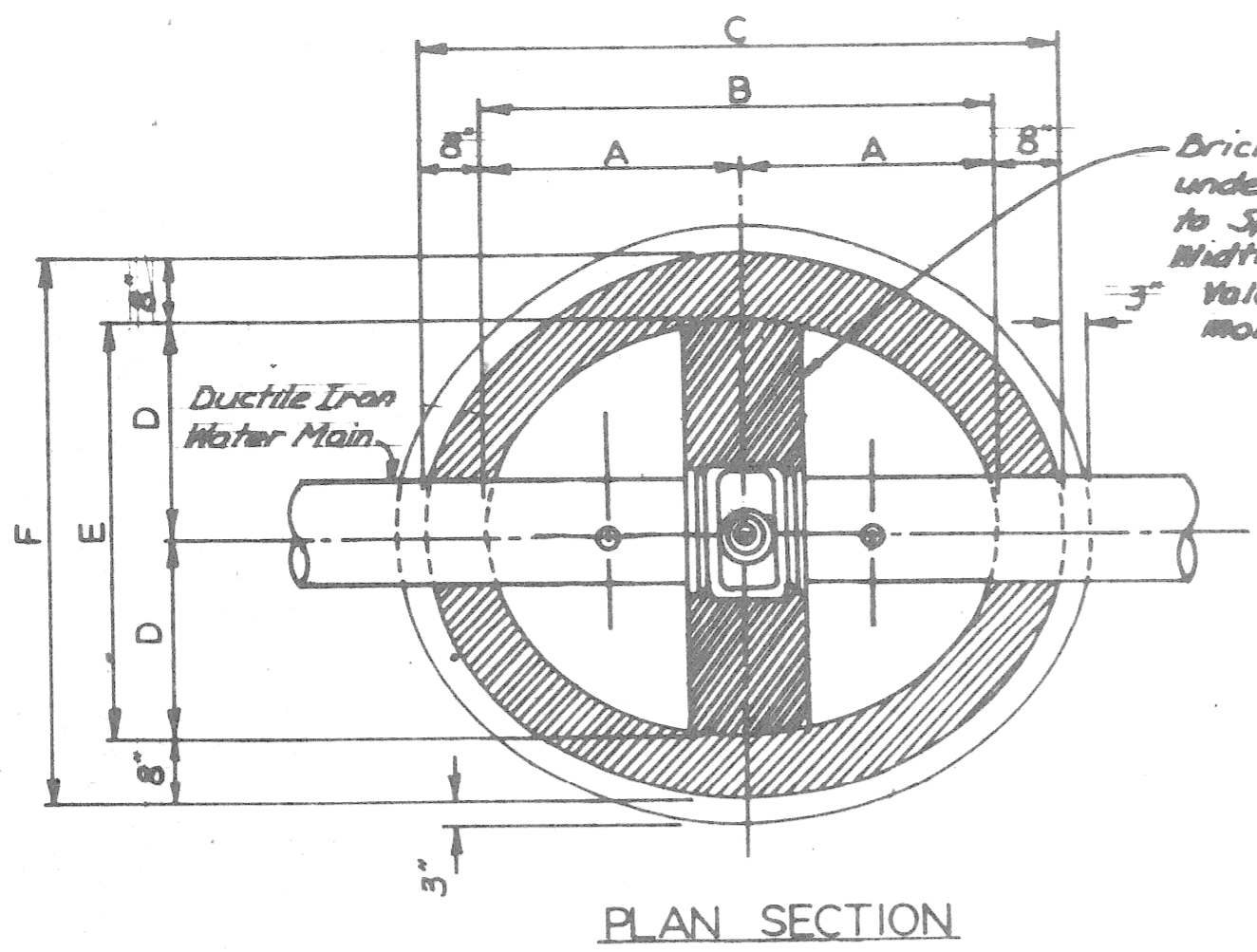
**SCHEDULE OF THRUST BLOCK DIMENSIONS**

PLUG SIZE	A	B	C	D	E	F	G
6"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
8"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	2'-1"
16"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"	2'-8"

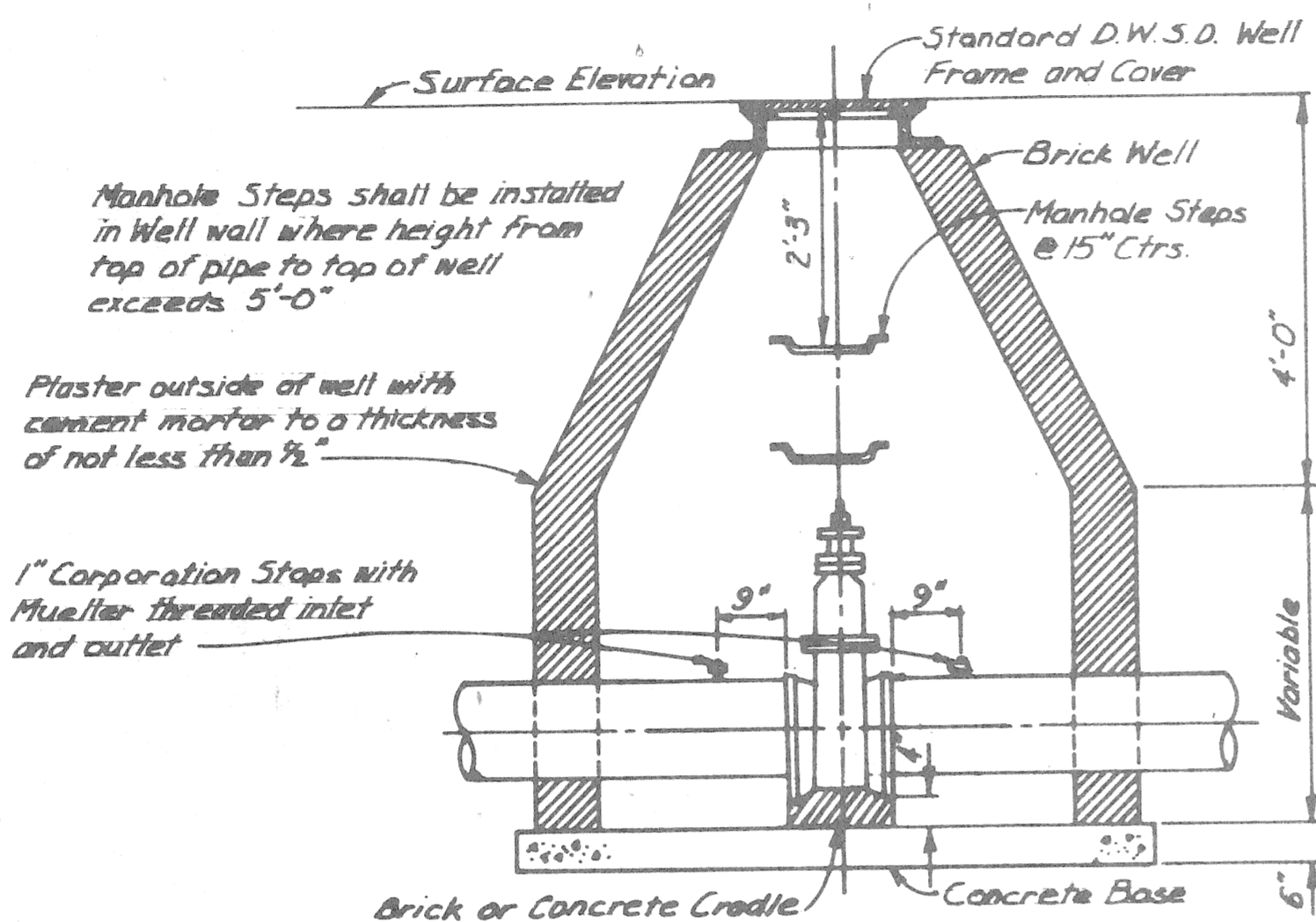
CAP SIZE	H	I	J	K	L	M	N
6"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
8"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	2'-1"
16"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"	2'-8"

DETAIL OF STANDARD THRUST BLOCKS FOR PLUGS AND CAPS

Not to Scale



PLAN SECTION



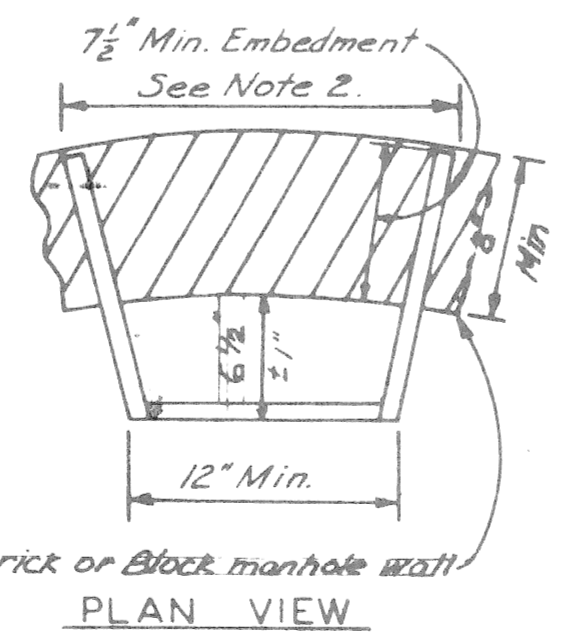
SECTION THROUGH GATE WELL

**SCHEDULE OF GATE WELL DIMENSIONS**

SIZE	A	B	C	D	E	F
6"	2'-6"	5'-0"	6'-4"	2'-0"	4'-0"	5'-4"
8"	2'-6"	5'-0"	6'-4"	2'-0"	4'-0"	5'-4"
12"	2'-9"	5'-6"	6'-10"	2'-3"	4'-6"	5'-10"
16"	3'-0"	6'-0"	7'-4"	2'-9"	5'-6"	6'-10"

DETAIL OF STANDARD GATE WELLS

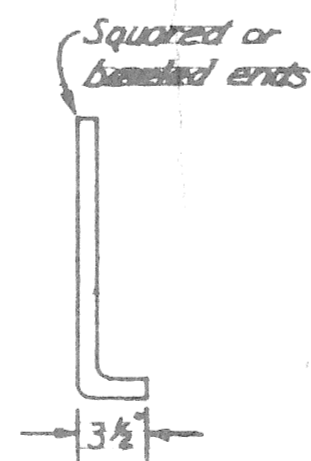
Not to Scale



PLAN VIEW

ALUMINUM MANHOLE STEP

Not to Scale



CROSS SECTION OF STEP

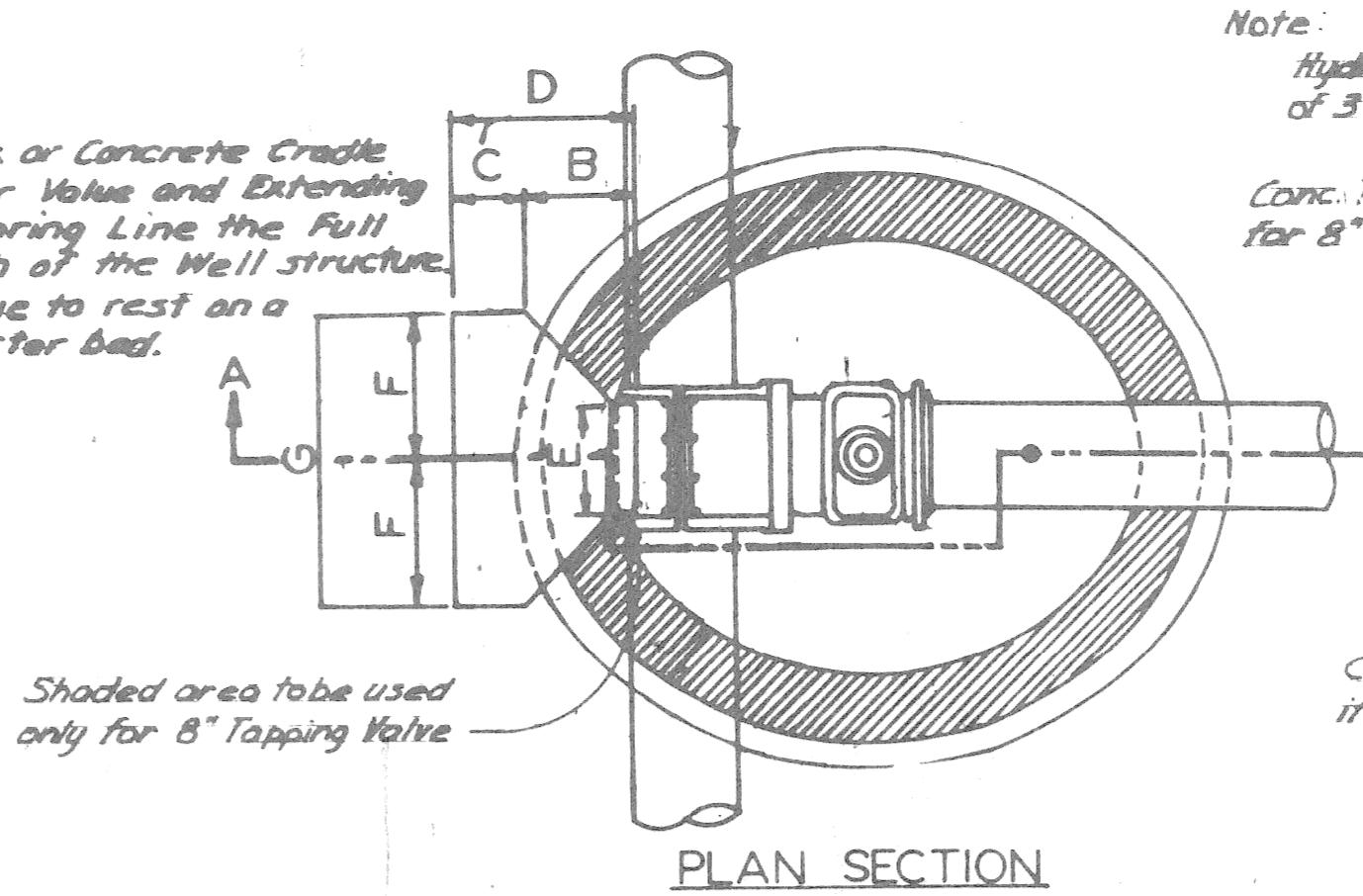
**NOTE:**  
1. In lieu of grooves, alternate foot hold configurations will be considered for approval.  
2. Flared legs shall be radial to the manhole wall.

**SCHEDULE OF STANDARD THRUST BLOCK DIMENSIONS FOR TAPPING VALVE**

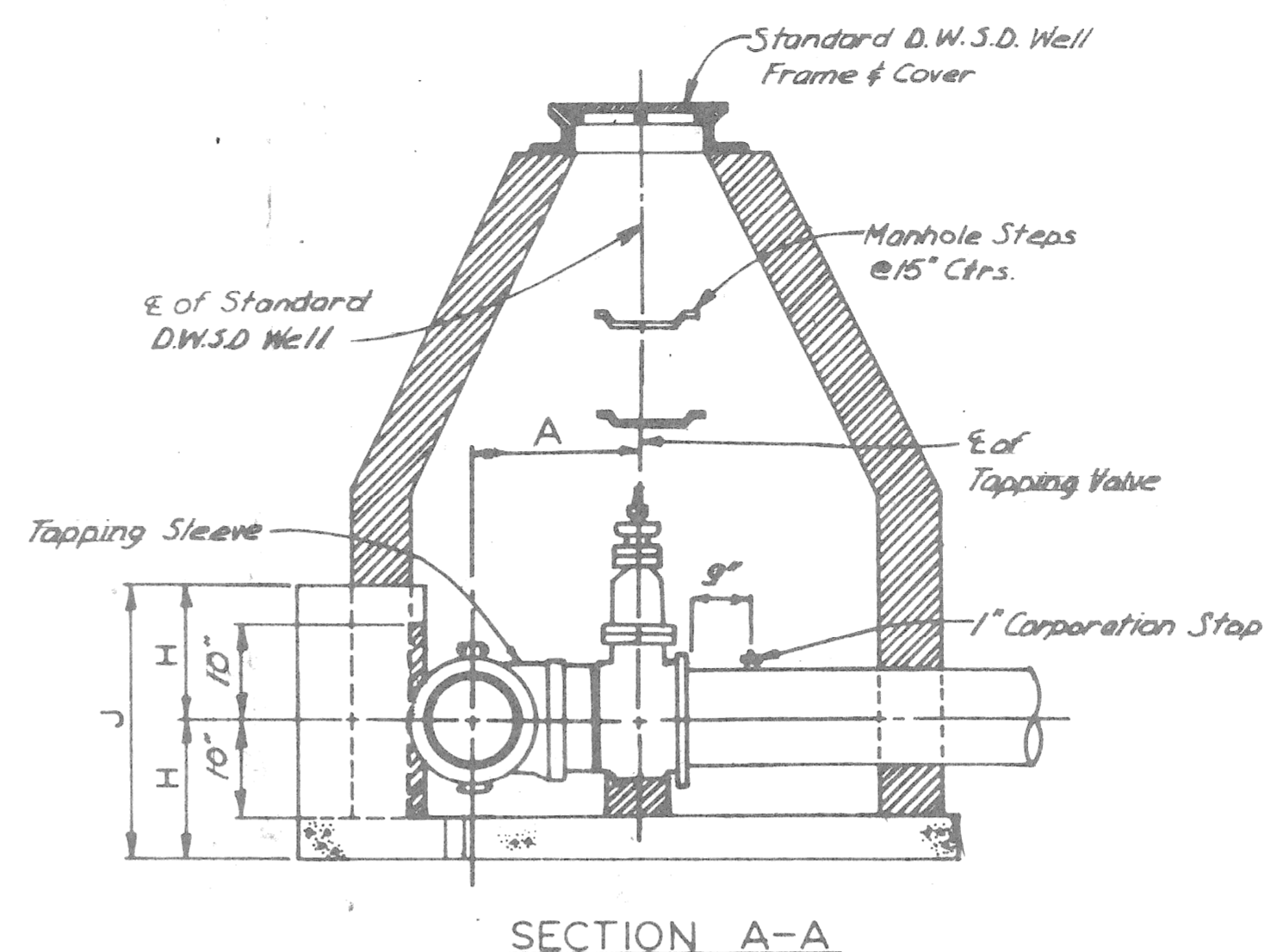
SIZE	A	B	C	E	F	G	H	J
8"x8" 1'-6 1/2"				0'-7"				
12"x8" 1'-9"				0'-7"				
16"x8" 1'-11 1/2"				0'-7 1/2"				
12"x12" 1'-8 1/2"	1'-6"	0'-9"	2'-3"	0'-7"	1'-9"	3'-6"	1'-6"	3'-0"
16"x12" 1'-11 1/2"	1'-6"	0'-9"	2'-3"	0'-10 1/2"	1'-9"	3'-6"	1'-6"	3'-0"
16"x16" 2'-2"	2'-7"	1'-0"	3'-7"	0'-10 1/2"	2'-11"	5'-10"	1'-8"	3'-4"

DETAIL OF STANDARD THRUST BLOCKS FOR TAPPING VALVES

Not to Scale



PLAN SECTION

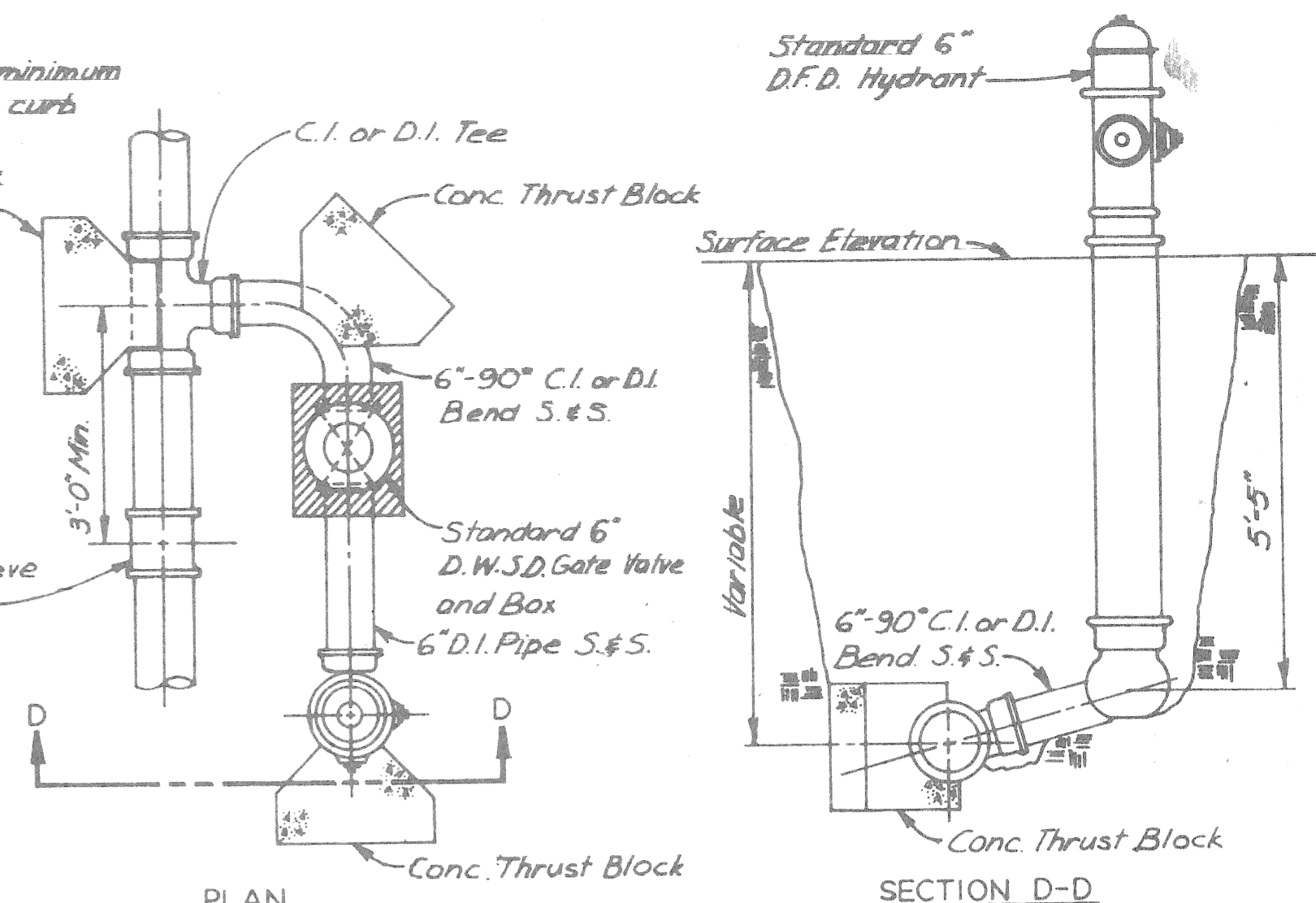


SECTION A-A

**NOTE:**  
Hydrant tube a minimum of 3' behind the curb.

Conc. Thrust Block for 8"x8" Tee Size

C.I. or D.I. Sleeve if necessary

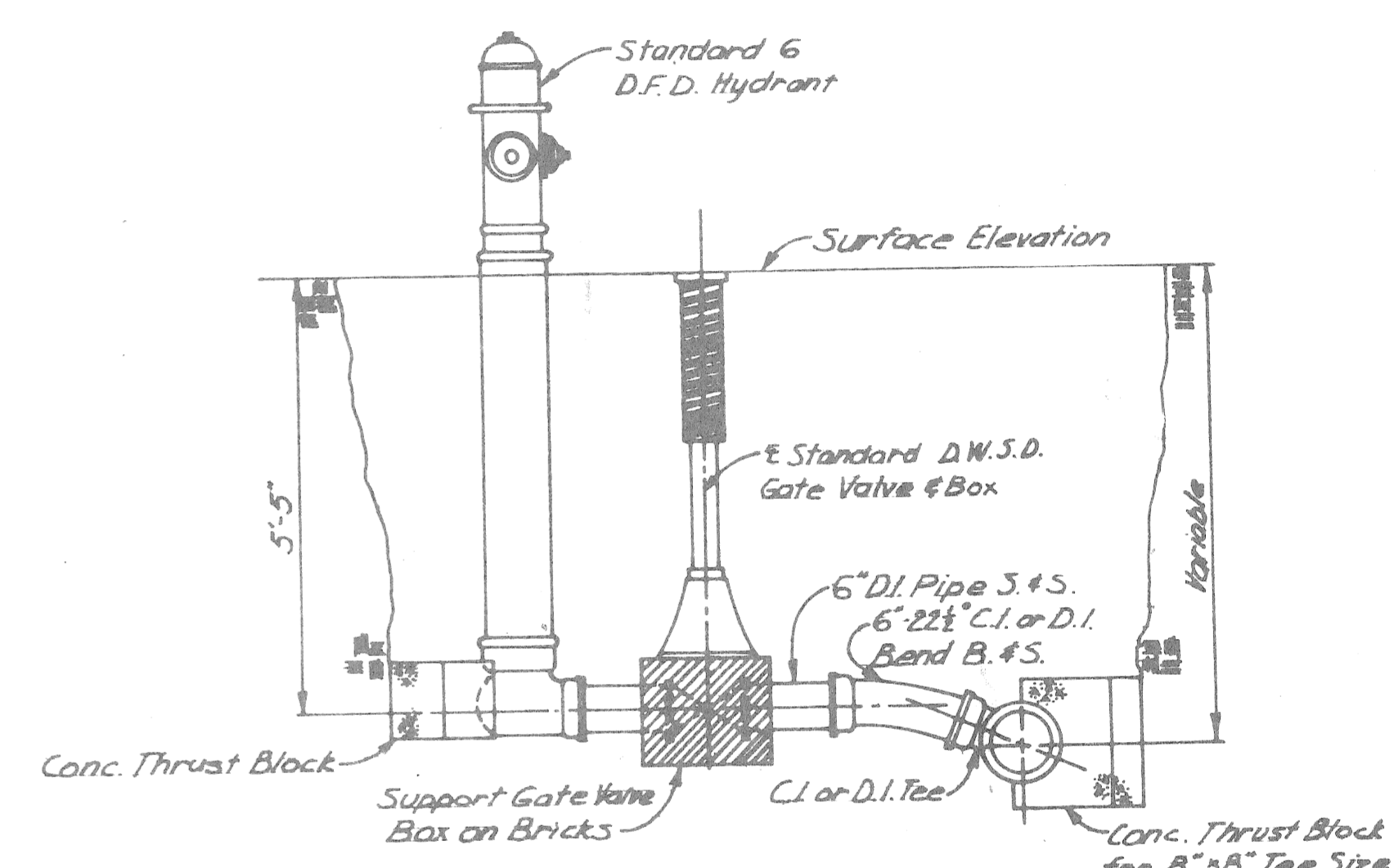


PLAN

SECTION D-D

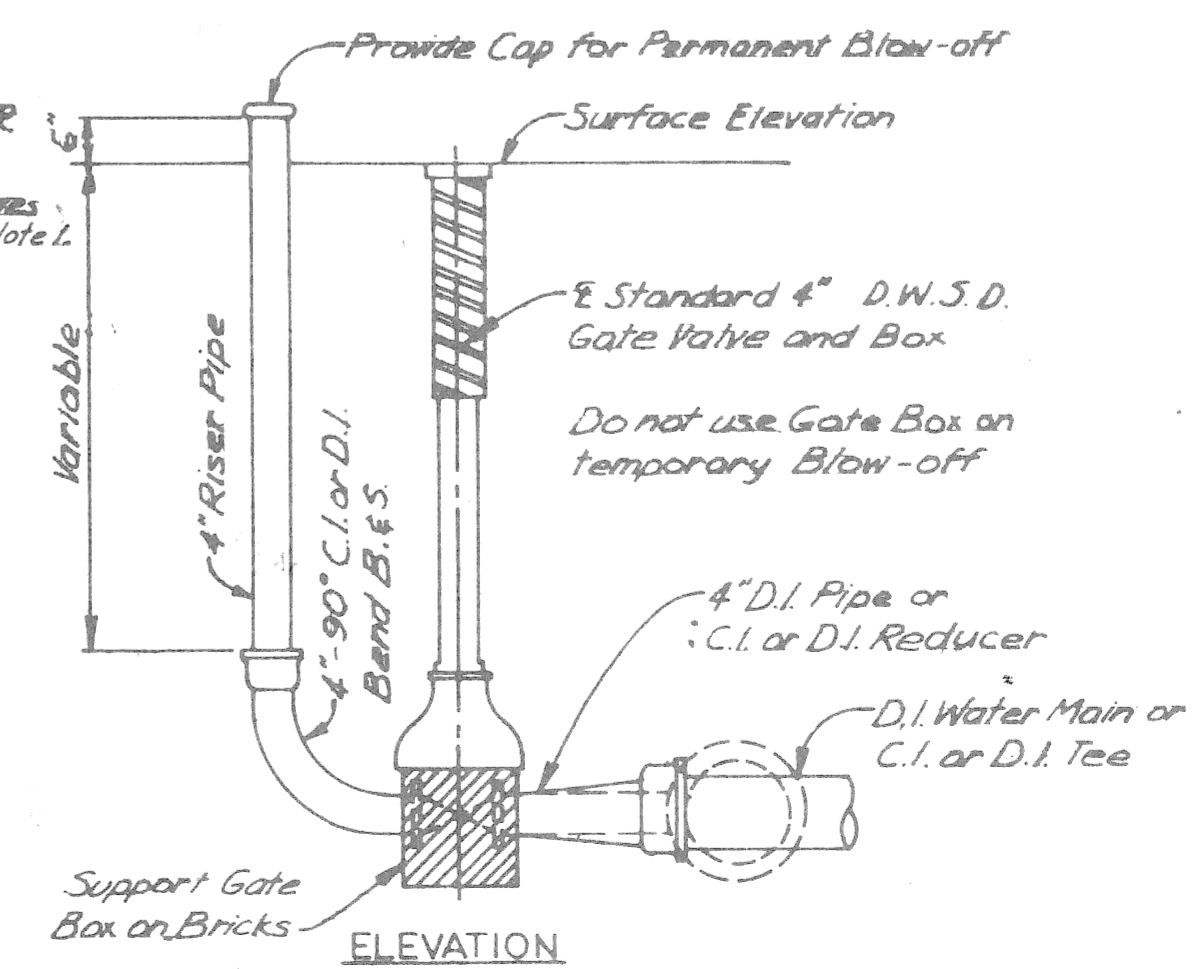
DETAIL OF 6" HYDRANT INSTALLATION OFF SET

Not to Scale



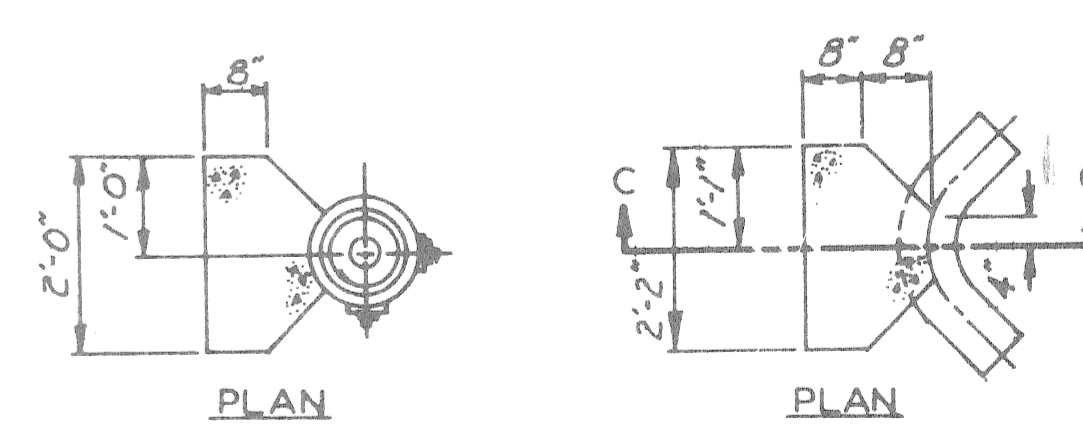
DETAIL OF 6" HYDRANT INSTALLATION STRAIGHT AWAY

Not to Scale



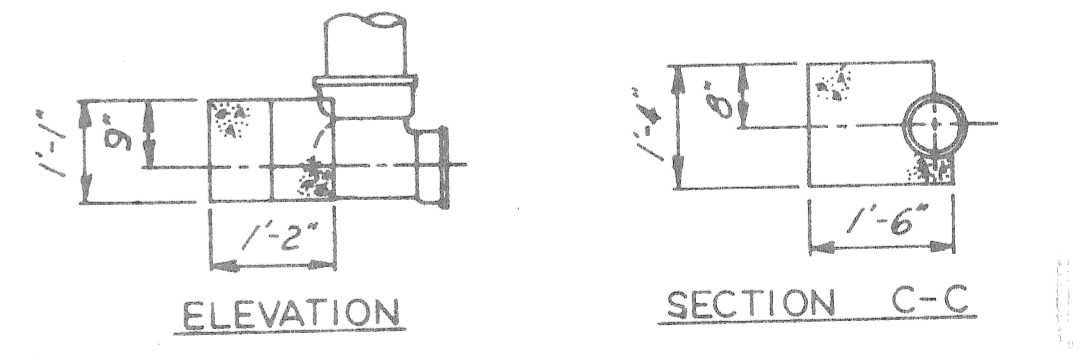
DETAIL OF 4" BLOW-OFF

Not to Scale



PLAN

PLAN



ELEVATION

SECTION C-C

THRUST BLOCK FOR 6" HYDRANT

Not to Scale

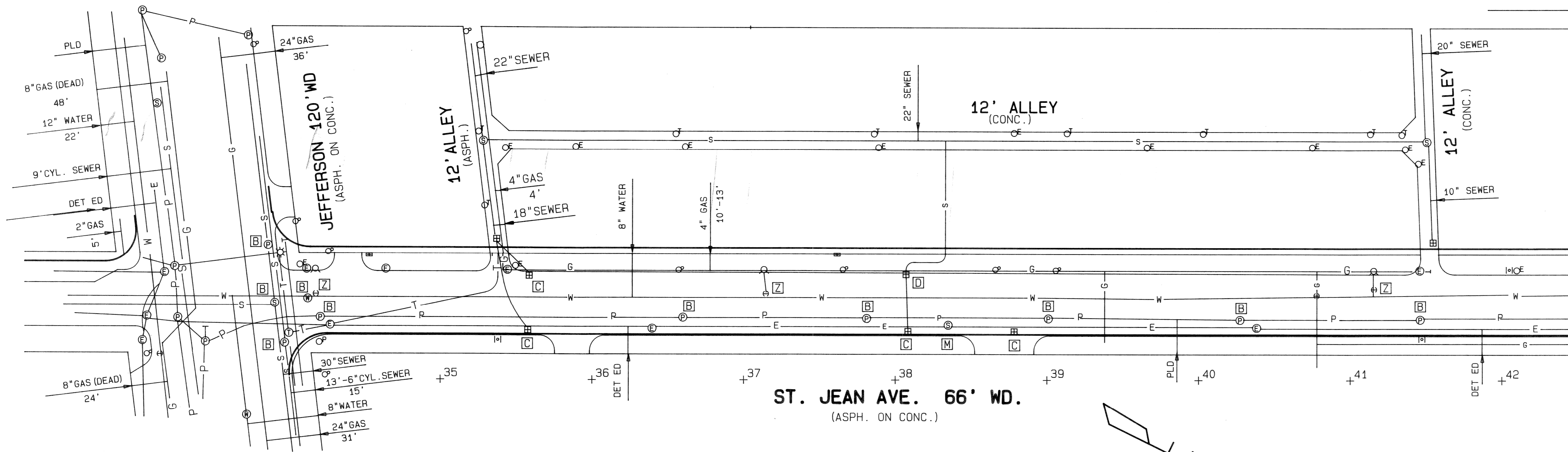
THRUST BLOCK FOR 6" HYDRANT BEND

Not to Scale

**NOTE:**  
The bearing face of Thrust Blocks shall be poured against undisturbed earth.

DESIGNED BY		APPROVED		JEFFERSON-CONNER INDUSTRIAL REVITALIZATION PROJECT				CITY OF DETROIT			
DRAWN BY R.A.C.				ST. JEAN AVE. RECONSTRUCTION				WATER AND SEWERAGE DEPARTMENT			
CHECKED BY R.T.D.				MISCELLANEOUS DETAILS				CONTRACT NO.			
		DIRECTOR OF ENGINEERING		FIRE HYDRANTS				DRAWING NO. 28 OF 77			
CO-OR.		APRVD. DATE		SCALE AS SHOWN				SECTION MAP			
REVISIONS				DATE				WORK ORDER NO.			

DEFER PLACE 50' WD.



MATCH LINE STA. 42+50 THIS SHEET

UTILITY LEGEND

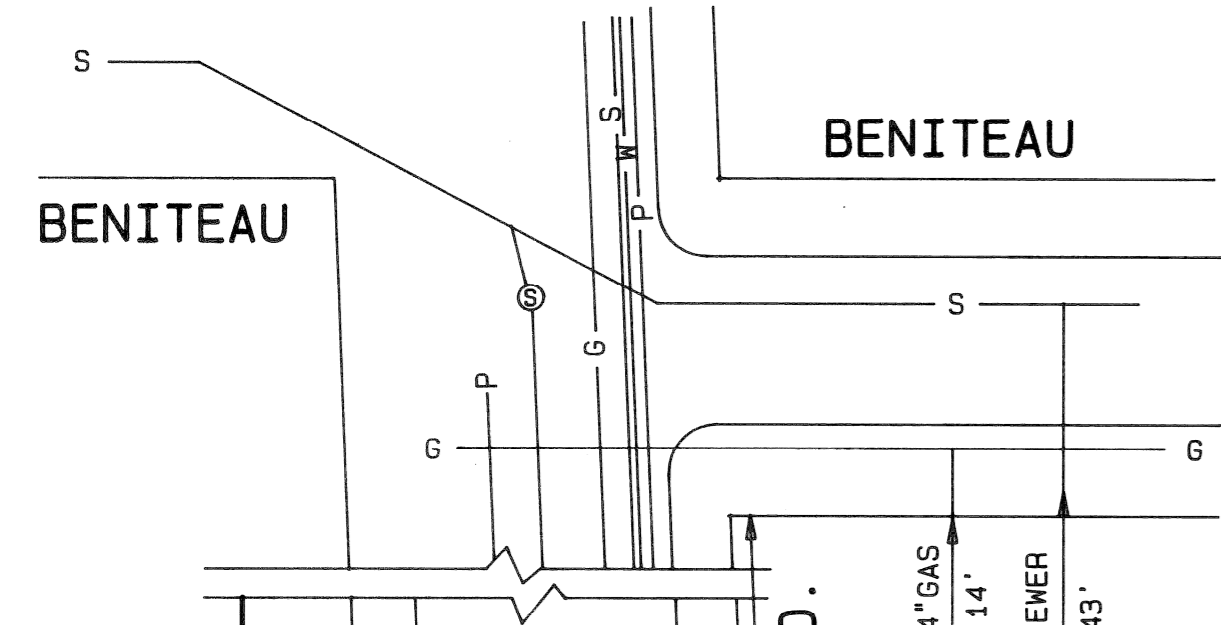
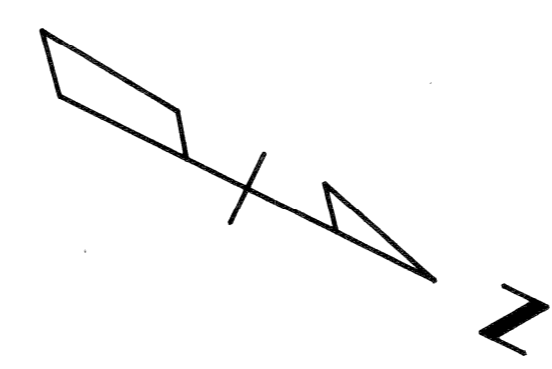
- P — (circle) PLD CONDUIT & MANHOLE OR HANDHOLE
- S — (circle) SEWER & MANHOLE
- E — (circle) DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- G — (circle) MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- W — (circle) DWSO WATER GATE OR MANHOLE & WATER MAIN
- T — (circle) MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- ⊙ MICHIGAN BELL TELEPHONE CO. POLE
- ⊙ PUBLIC LIGHTING DEPARTMENT (PLD) POLE
- ⊙ DETROIT EDISON POLE
- ⊙ PLD OVERHEAD-FED LIGHT
- ⊙ WATER SHUT-OFF
- ⊙ DFD FIRE HYDRANT
- ⊙ CATCH BASIN
- ⊙ GAS DRIP OR GAS VALVE
- ⊙ GUY POLE
- ⊙ TRAFFIC SIGNAL CONTROLLER
- ⊙ WATER METER
- PROPOSED CATCH BASIN

NOTE: PROPOSED UTILITY LINES & STRUCTURES ARE SHOWN IN HEAVIER WEIGHT LINE.

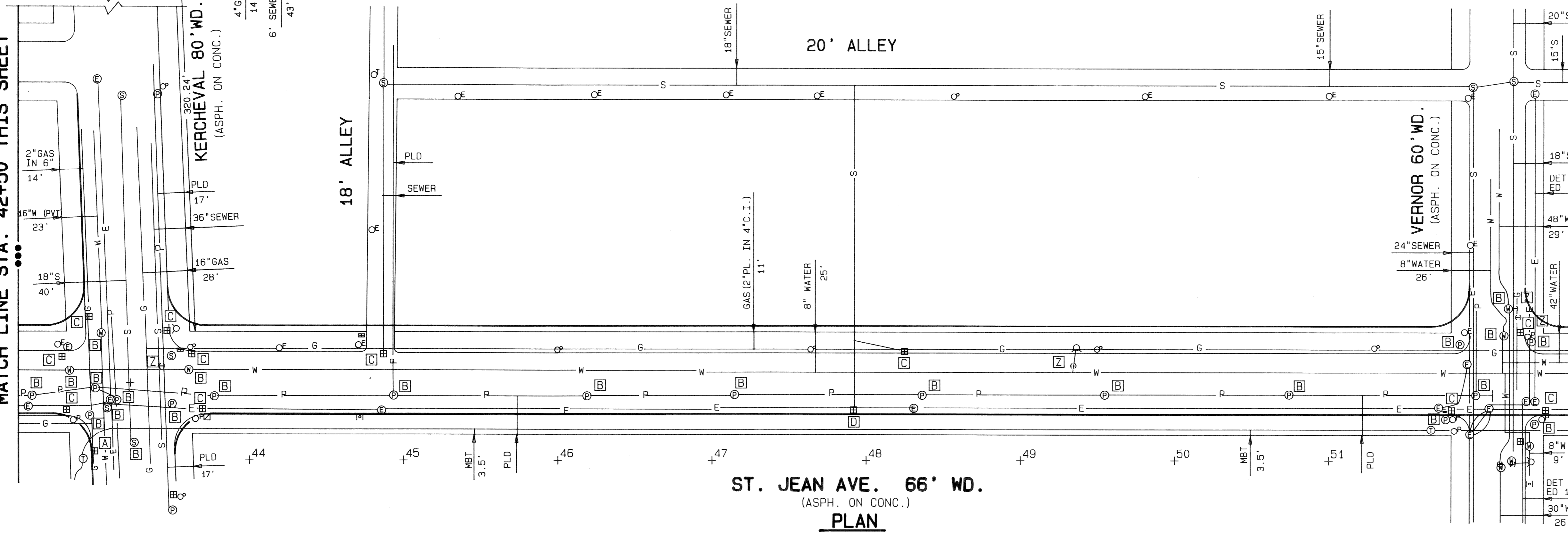
CONSTRUCTION ITEMS

- [A] CATCH BASIN - ADJUSTMENT
- [B] MANHOLE - ADJUSTMENT
- [C] CATCH BASIN - ABANDONMENT
- [D] CATCH BASIN - SPECIAL ABANDONMENT
- [M] MANHOLE - (SEWER), ABANDONMENT
- [Z] STOP BOX ADJUSTMENT
- [X] MANHOLE - RECONSTRUCT CONE

ST. JEAN AVE. 66' WD.  
(ASPH. ON CONC.)



MATCH LINE STA. 42+50 THIS SHEET



MATCH LINE STA. 52+60 SEE DRAWG. NO.

ST. JEAN AVE. 66' WD.  
(ASPH. ON CONC.)

PLAN  
SCALE: 1"=40'

MAR 03 1987

REVISIONS	DATE	DESCRIPTION	CHKD. BY	DRAWN	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. FILE NO. 6006SJA	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	SHEET _____ OF _____ SHEETS
				CHECKED			CONTRACT NO.
				APPROVED			ASSIGNMENT NO.
				DATE			DATE



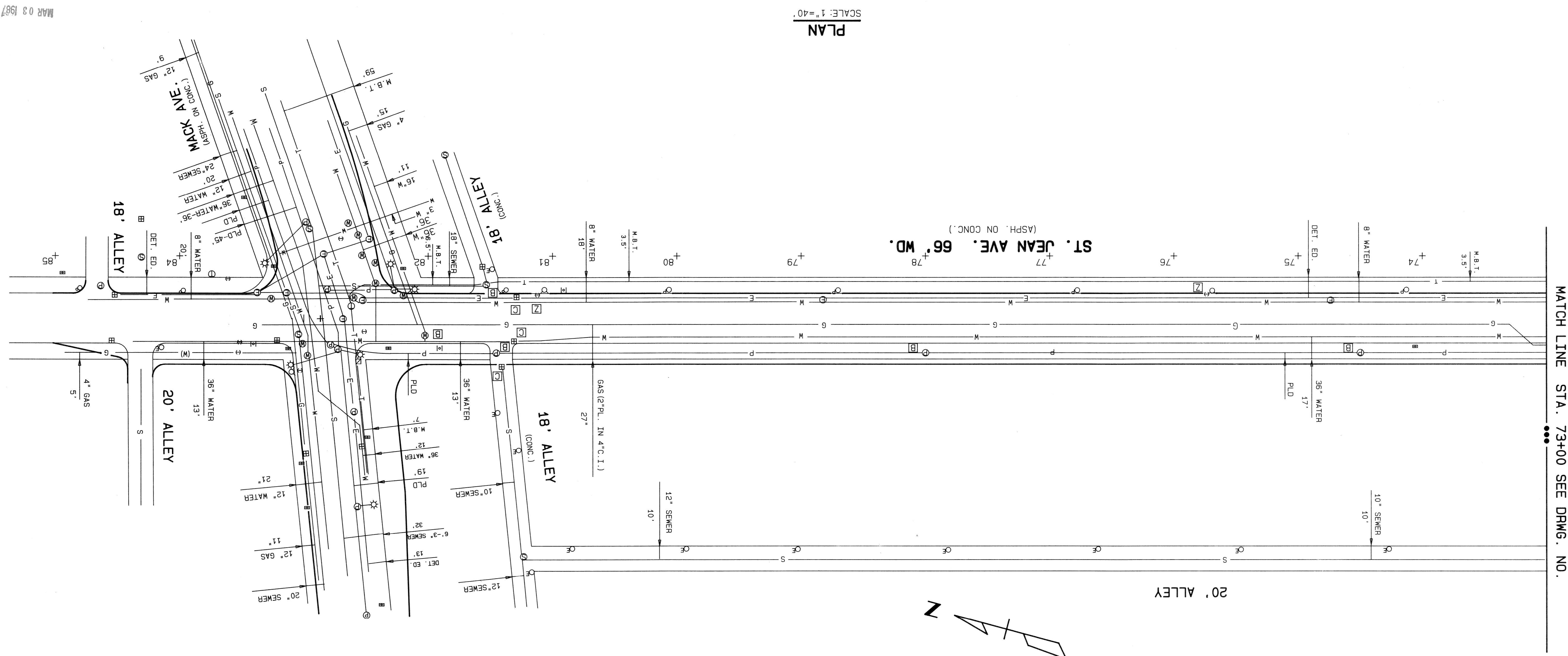
DATE	DESCRIPTION
CHKD. BY	
DRWN	
CHECKED	
APPROVED	
DATE	

PLAN PREPARED BY  
CONSULTING ENGINEERING ASSOCIATES INC.  
ENGINEERING CONSULTANTS  
16580 WYOMING DETROIT, MICH. 48221  
DRWG. NO. FILE NO.

CITY OF DETROIT  
CITY ENGINEERING DEPARTMENT  
BUREAUS OF STREETS AND HIGHWAYS

JEFFERSON - CONNER INDUSTRIAL REVITALIZATION PROJECT  
SHEET OF SHEETS  
CONTRACT NO.  
ASSIGNMENT NO.  
DATE

ST. JEAN AVE. RECONSTRUCTION  
UTILITY DRAWING - STA. 73+00 TO MACK



SCALE: 1"=40'  
PLAN

MAR 03 1987

MATCH LINE STA. 73+00 SEE DRWG. NO.

CONSTRUCTION ITEMS

- ⊠ CATCH BASIN - ADJUSTMENT
- ⊡ MANHOLE - ADJUSTMENT
- ⊞ CATCH BASIN - ABANDONMENT
- ⊞ CATCH BASIN - SPECIAL ABANDONMENT
- ⊞ MANHOLE - (SEWER) ABANDONMENT
- ⊞ STOP BOX ADJUSTMENT
- ⊞ MANHOLE - RECONSTRUCT CONE

UTILITY LEGEND

- ⊠ PLO CONDUIT & MANHOLE OR HANDHOLE
- ⊞ SEWER & MANHOLE
- ⊞ DETROIT EDISON ELECTRIC CONDUIT & MANHOLE
- ⊞ MICHIGAN CONSOLIDATED GAS CO. MAIN & MANHOLE
- ⊞ DMSD WATER GATE OR MANHOLE & WATER MAIN
- ⊞ MICHIGAN BELL TELEPHONE CO. MANHOLE & DUCTS
- ⊞ MICHIGAN BELL TELEPHONE CO. POLE
- ⊞ PUBLIC LIGHTING DEPARTMENT (PLD) POLE
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- ⊞ PLO OVERHEAD-FED LIGHT
- ⊞ WATER SHUT-OFF
- ⊞ DFD FIRE HYDRANT
- ⊞ CATCH BASIN
- ⊞ GAS DRIP OR GAS VALVE
- ⊞ GUY POLE
- ⊞ TRAFFIC SIGNAL CONTROLLER
- ⊞ WATER METER
- ⊞ PROPOSED CATCH BASIN

NOTE: PROPOSED UTILITY LINES & STRUCTURES ARE SHOWN IN HEAVIER WEIGHT LINE.