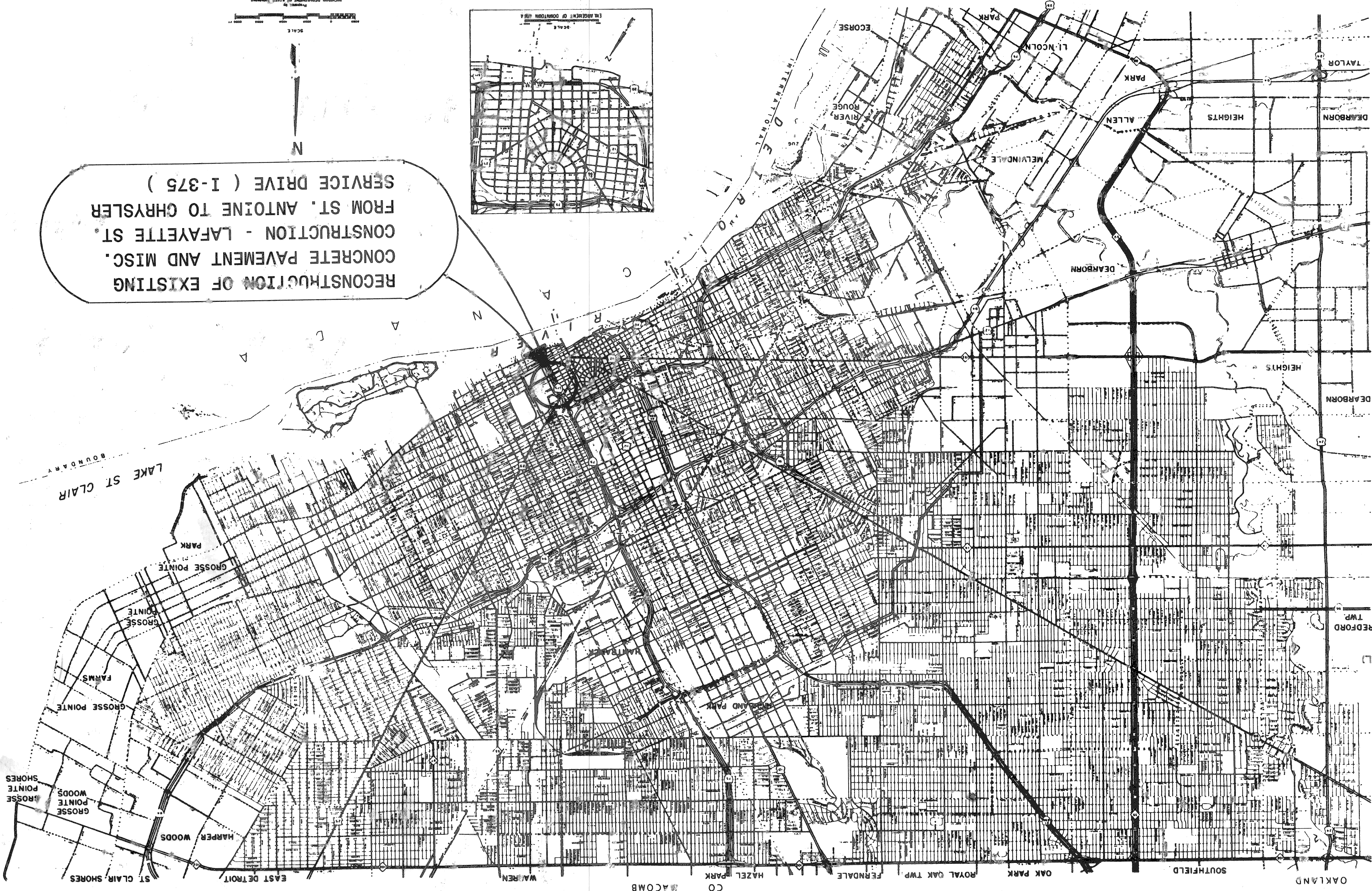


CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
 IN CO-OPERATION WITH
MICHIGAN DEPARTMENT OF TRANSPORTATION
AND
FEDERAL HIGHWAY ADMINISTRATION
 FEDERAL AID URBAN PROJECT NO. STP 1993 (001)
 JOB NO. 36082 A
 CONTROL SECTION STU 82400
 ITEM NO. HJ 1008

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

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




INDEX OF SHEETS

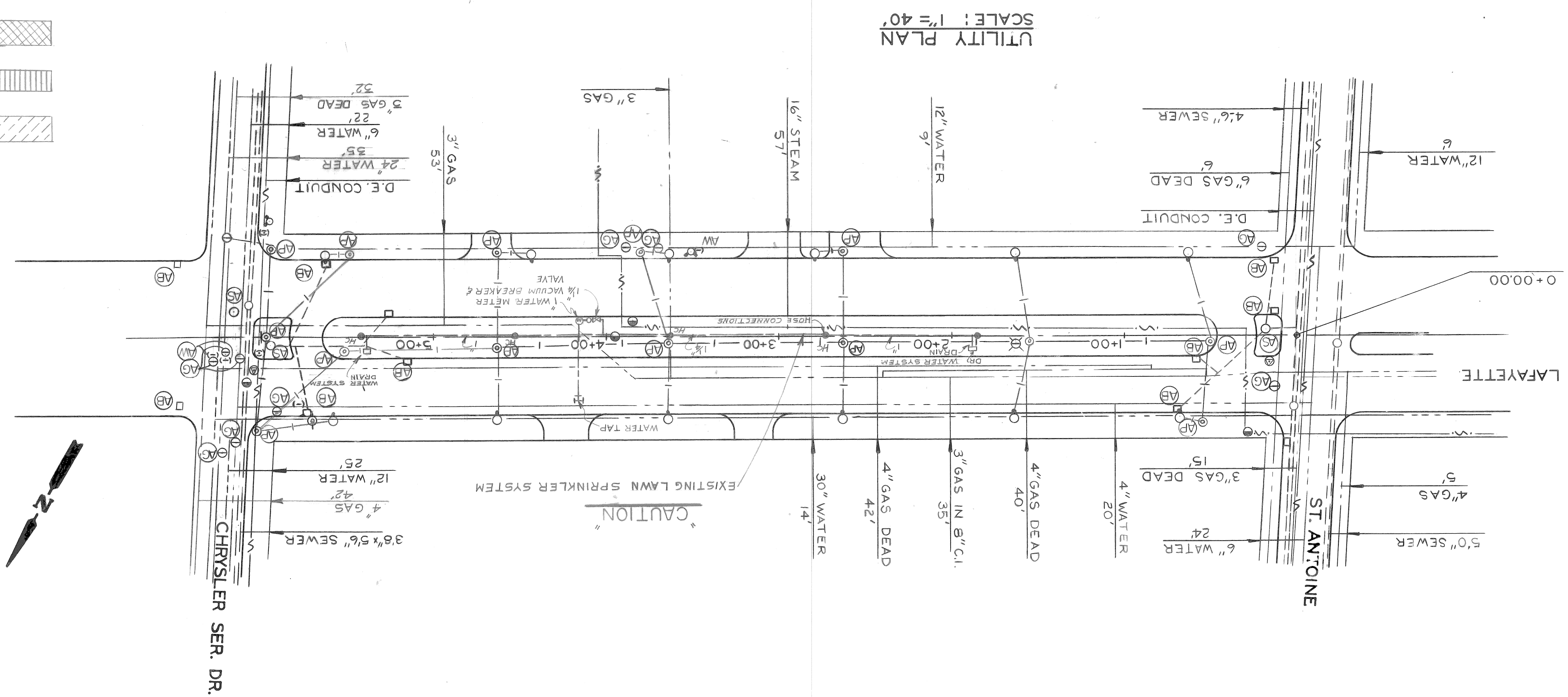
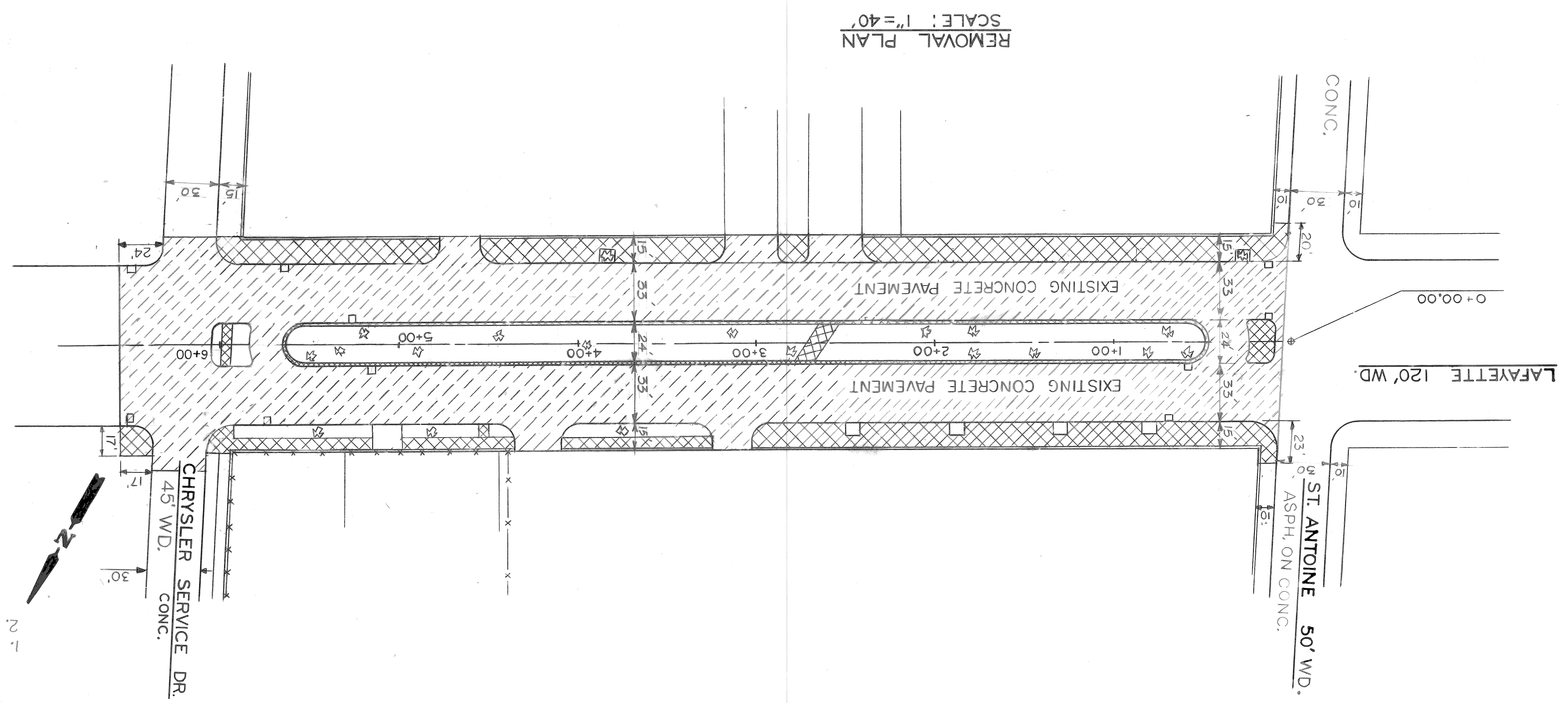
1. TITLE SHEET
2. REMOVAL AND UTILITY SHEET
3. PLAN AND PROFILE
4. TYPICAL CROSS SECTION AND INTERSECTION GRADE DETAILS
- 5-7. CONSTRUCTION SEQUENCE
- 8-11. SPECIAL STANDARDS AND DETAILS
12. QUANTITY SHEET
- PAVEMENT MARKINGS (SEE PROPOSAL)
- STANDARD PLANS
 - 11 28G
 - 11 28E
 - 11 38K
 - 11 40G
 - 11 41H (SPECIAL DETAIL)
 - 11 42F
 - 11 43D
 - 11 43G
 - 11 83G
 - 11 96D
 - 11 100B
 - 11 125H

ITEM NO. _____
 CONTRACT FOR G. S. R. & UTILITIES
 LOCAL AUTHORITY APPROVAL
 CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 APPROVED BY E. M. Kennedy DEPUTY DIRECTOR DATE 9/2/93
 APPROVED BY Chris R. Johnson DIRECTOR DATE 9-2-93
 PREPARED UNDER SUPERVISION OF _____
 REGISTERED PROFESSIONAL ENGINEER
 ORGANIZATION CITY OF DETROIT
 ADDRESS DETROIT, MICHIGAN



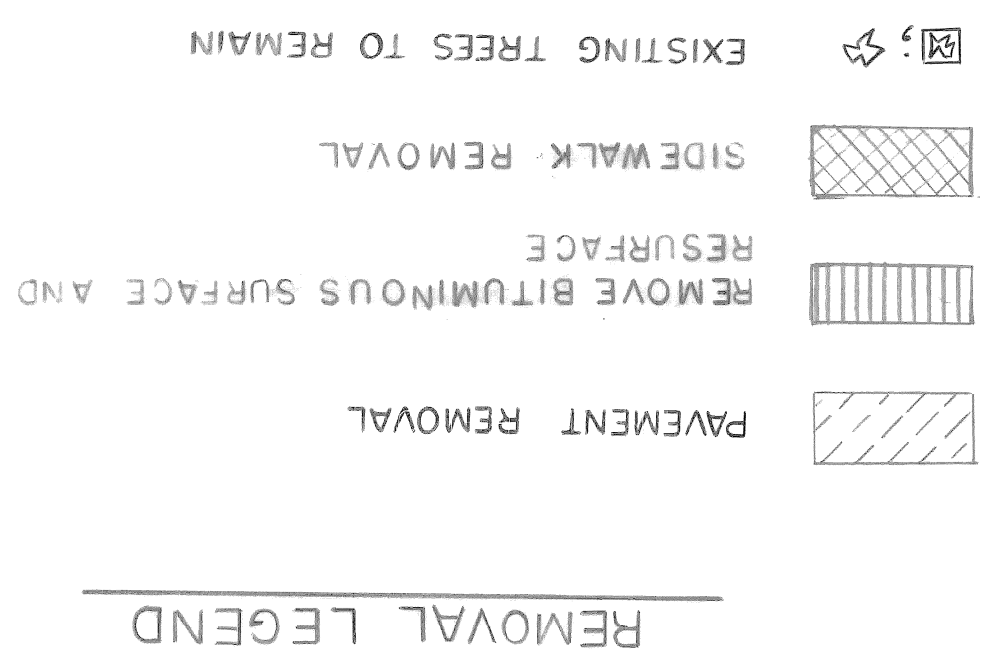
STP 1993 (001), STU 82400, J.N. 36082A, ITEM NO. HJ 1008

REVISIONS LOCATED BY COORDINATES ON SHEET COORD. DESCRIPTION DRW. CKD. AP-VD. DATE		CHECKED BY <i>Radwin Hudson</i>	TRACED BY DRAWN BY <i>Al Brown</i>	DESIGNED BY <i>R. Johnson</i>	APPROVED: 
CITY OF DETROIT ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS FOR		HIGHWAY ENGINEERS ENGINEERS OF STREETS		REPAIRING OF LAVAYETTE FROM ST. ANTOINE TO CHRYSLER SERVICE DRIVE AND MISCELLANEOUS CONSTRUCTION REMOVAL AND UTILITY SHEET	
SHEET 2 OF 12 SHEETS CONTRACT NO. ASSIGNMENT NO. 89-22-30 DATE: MAY, 1993		11 10 9 8 7 6 5 4 3 2 1			

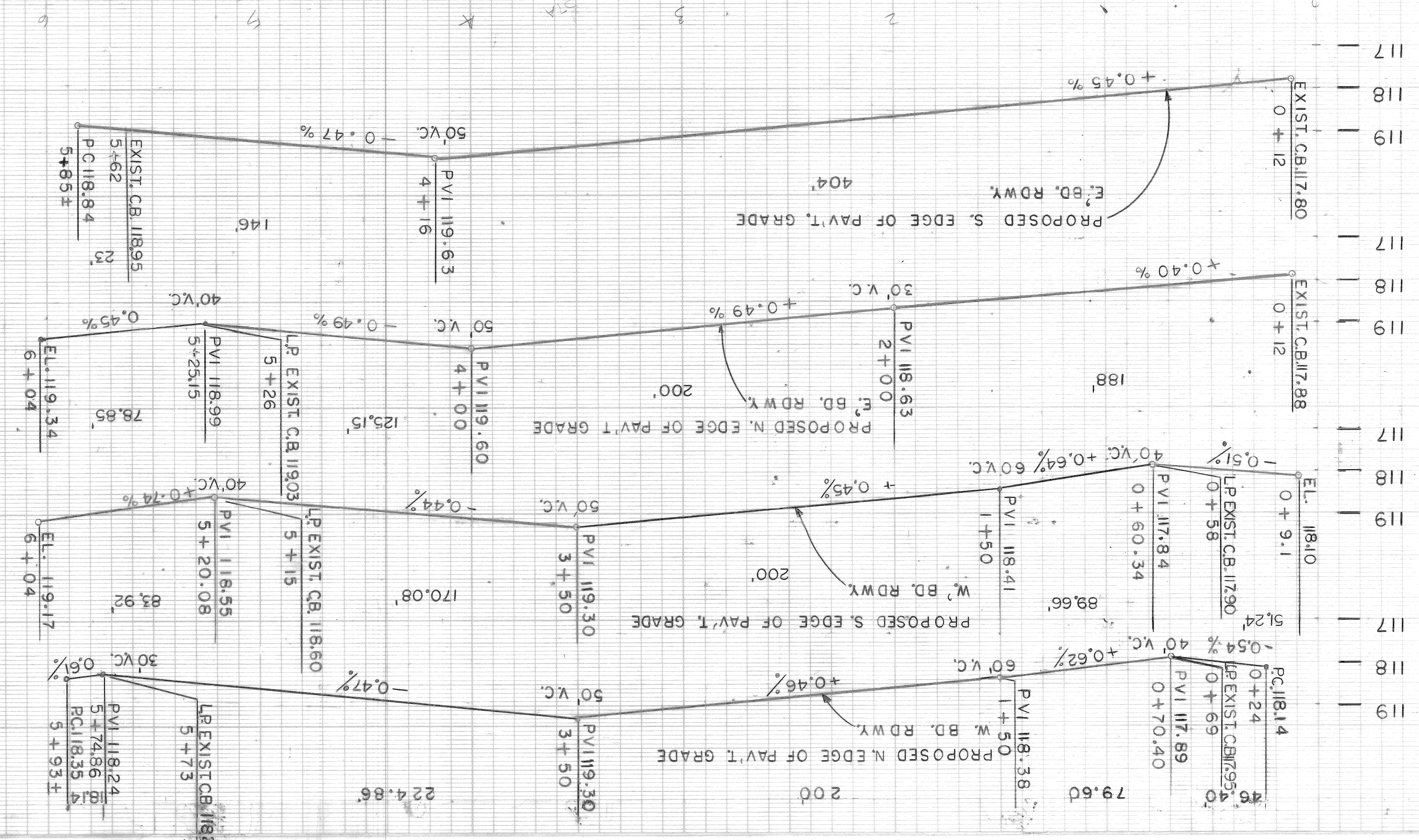


NOTES

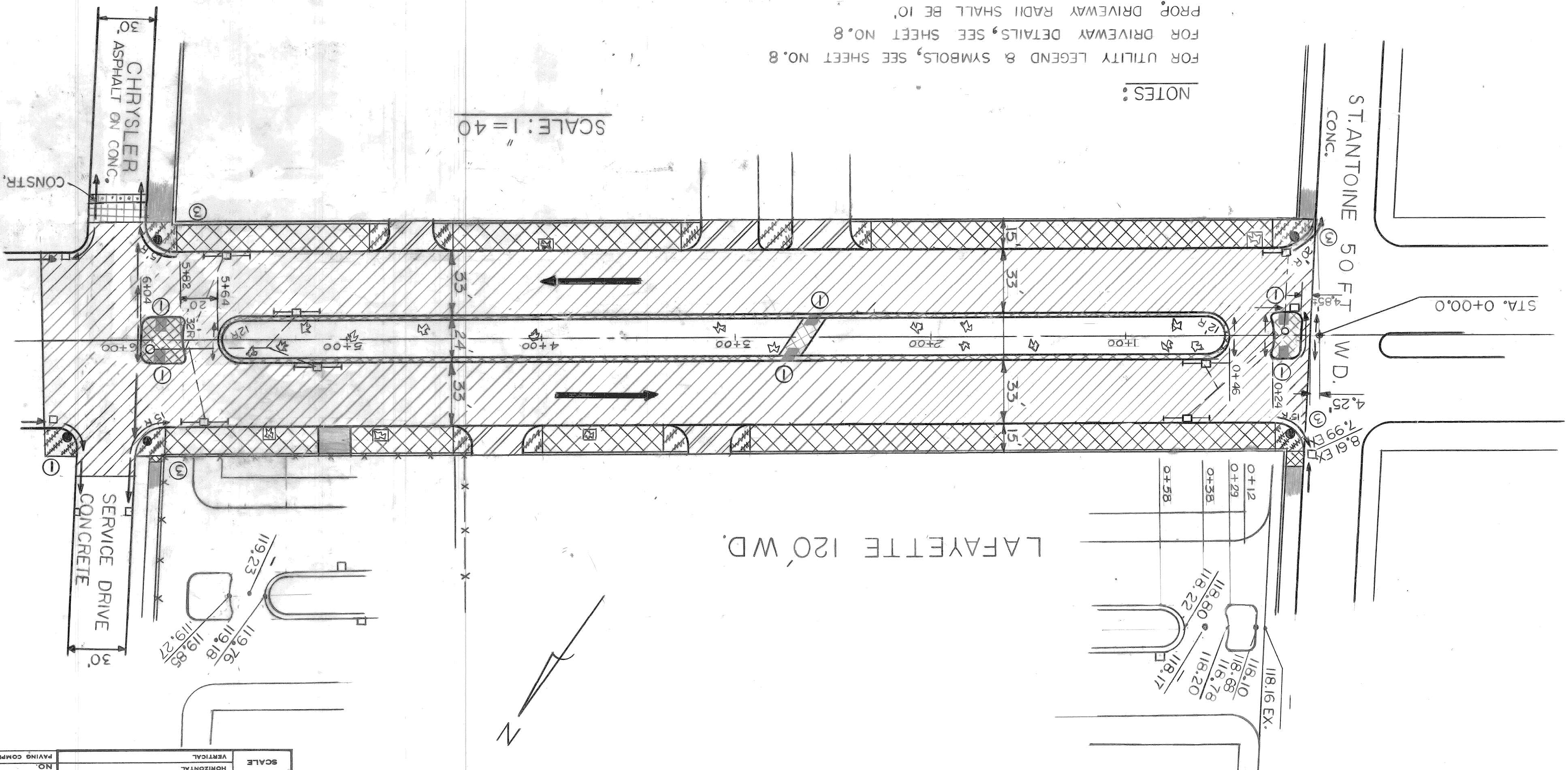
- FOR UTILITY LEGEND AND SYMBOLS, SEE SHEET NO. 8
- LOCATION OF EXISTING UTILITY LINES ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY



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



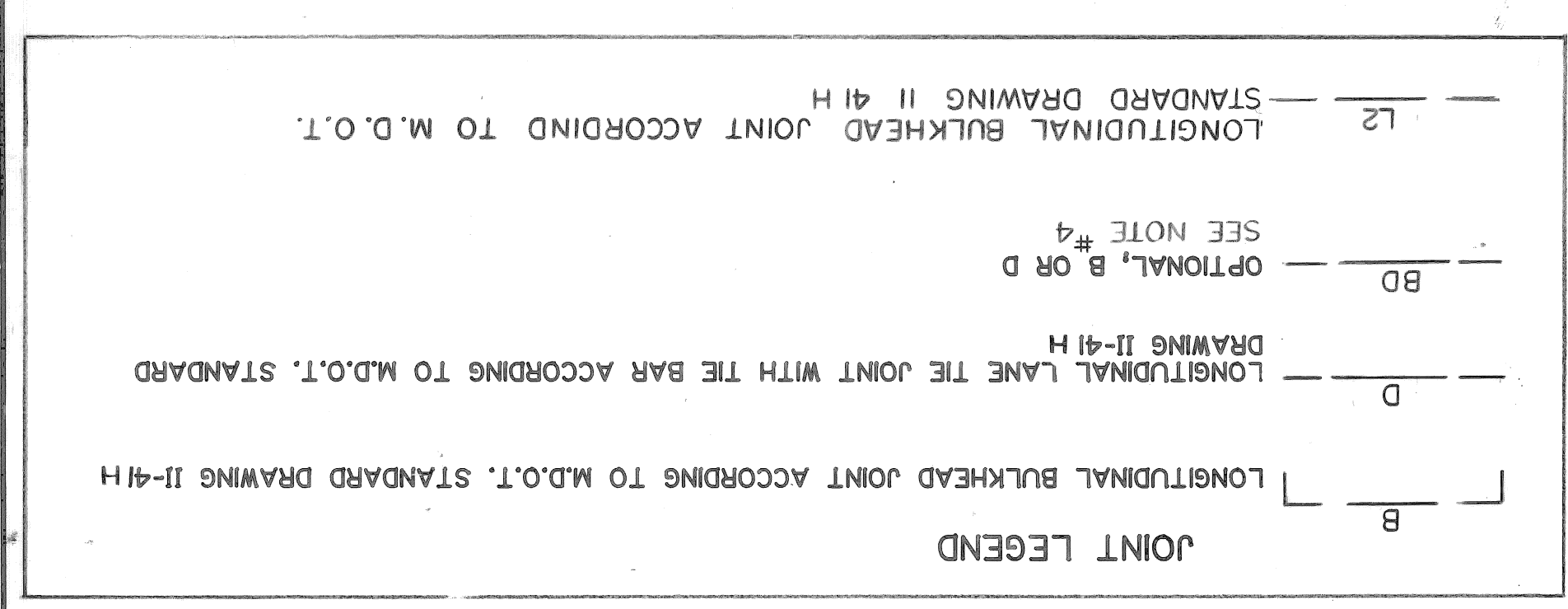
- SURFACING LEGEND**
- ← DRAINAGE DIRECTION ARROW
 - ← TRAFFIC DIRECTION ARROW
 - CONCRETE PAVEMENT - 9" UNIFORM REINFORCED WITH REINFORCED INTEGRAL CURB
 - CONCRETE SIDEWALK - 6"
 - CONCRETE PAVEMENT NONREINFORCED - 8" DRIVEWAY
 - CONCRETE SIDEWALK - 4"
 - ① SIDEWALK RAMP TYPE 1, TYPE 3
 - ② PROPOSED 6" SUBGRADE UNDER DRAIN AT EXISTING CATCH BASIN
 - EXISTING SIDEWALK TO REMAIN
 - EXISTING CATCH BASIN, M.H., & INLET SEWER TO REMAIN
 - REMOVE BITUMINOUS SURFACE AND RESURFACE WITH 1300T, 20AAA
 - EXISTING TREES TO REMAIN
 - ADJUSTING DRAINAGE STRUCTURE COVER CASE I OR II SEE UTILITY PLAN SHEET NO. 2
 - ADJUSTING WATER SHUTOFF SEE UTILITY PLAN SHEET NO. 2



NOTES:
 FOR UTILITY LEGEND & SYMBOLS, SEE SHEET NO. 8
 FOR DRIVEWAY DETAILS, SEE SHEET NO. 8
 PROP. DRIVEWAY RADIUS SHALL BE 10'

SCALE: 1" = 40'

- BENCH MARKS**
- | | |
|---|--------|
| RB.M. #38-352 N.W. CORNER LAFAYETTE & ORLEANS 125.31 | ELEV |
| RB.M. #38-251B N.W. CORNER LAFAYETTE & RIVARD 118.78 | |
| CB.M. #1-4HYD. S.W. CORNER LAFAYETTE & S.B. CHRYS. SD. 122.13 | |
| CB.M. #2-4HYD. SOUTH SIDE LAFAYETTE STA. 3+51 | 122.63 |
| CB.M. #3-4HYD. CENTER OF ISLAND WEST SIDE | |
| ST. ANTOINE & LAFAYETTE | 121.49 |



GENERAL NOTES

1. THE PROPOSED CURB SHALL BE INTEGRAL CURB (SEE DETAIL THIS SHEET)
2. BACKFILL, IF REQUIRED, UNDER PROPOSED SIDEWALKS SHALL BE GRANULAR MATERIAL CLASS II (INCIDENTAL TO PROPOSED SIDEWALK CONSTRUCTION)
3. THE CURB FACE HEIGHT SHALL BE 7"
4. LOCATION OF LONGITUDINAL JOINTS OTHER THAN AS SHOWN IN THE TYPICAL CROSS SECTION MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

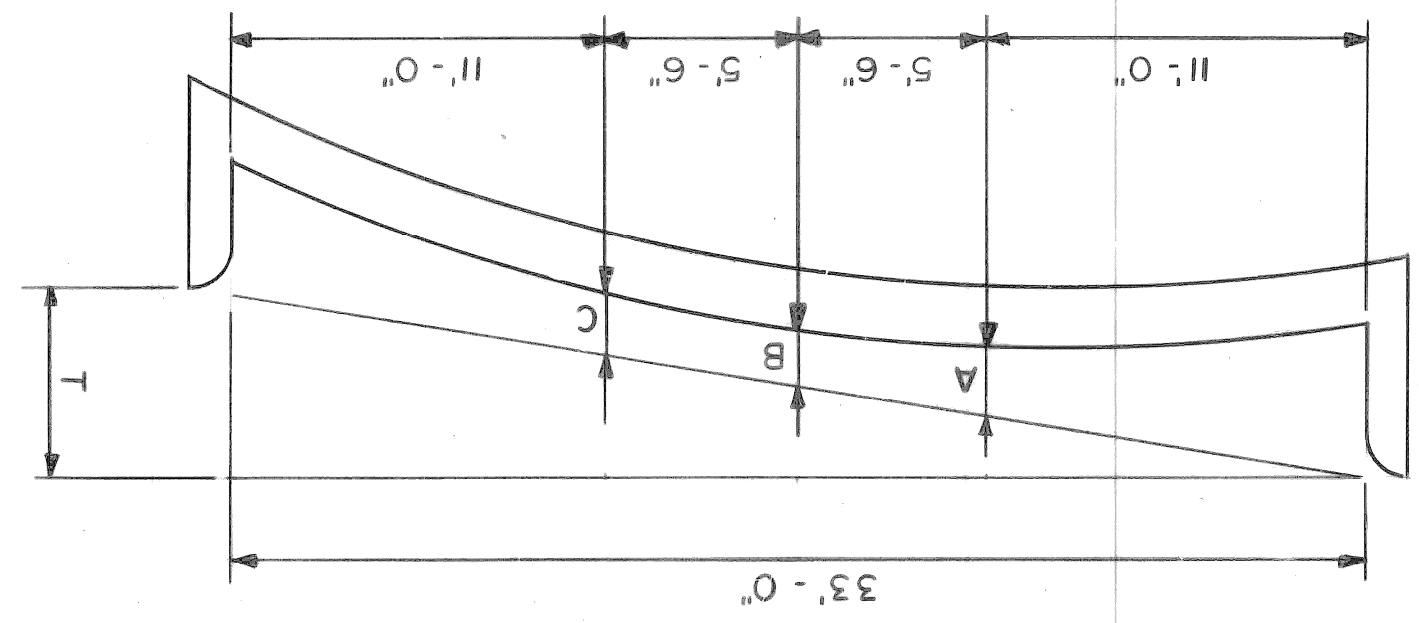
BITUMINOUS APPLICATION CHART

ITEM	RATE OF APPLICATION	ESTIMATED PENETRATION	THICKNESS	ASPHALT

Bif. Appr. 1300T20AMM 330 lb/sy 3" 85-100

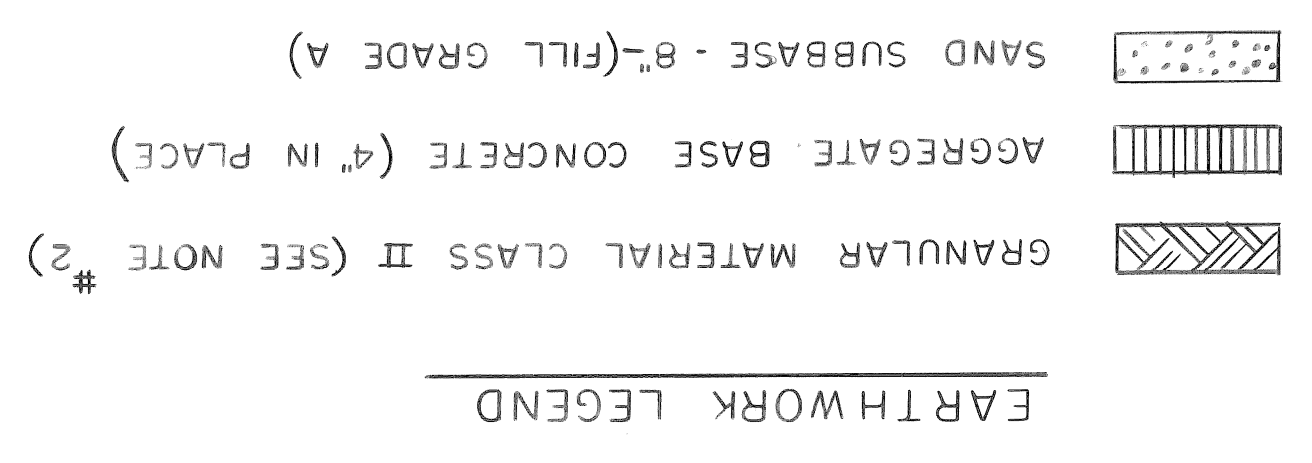
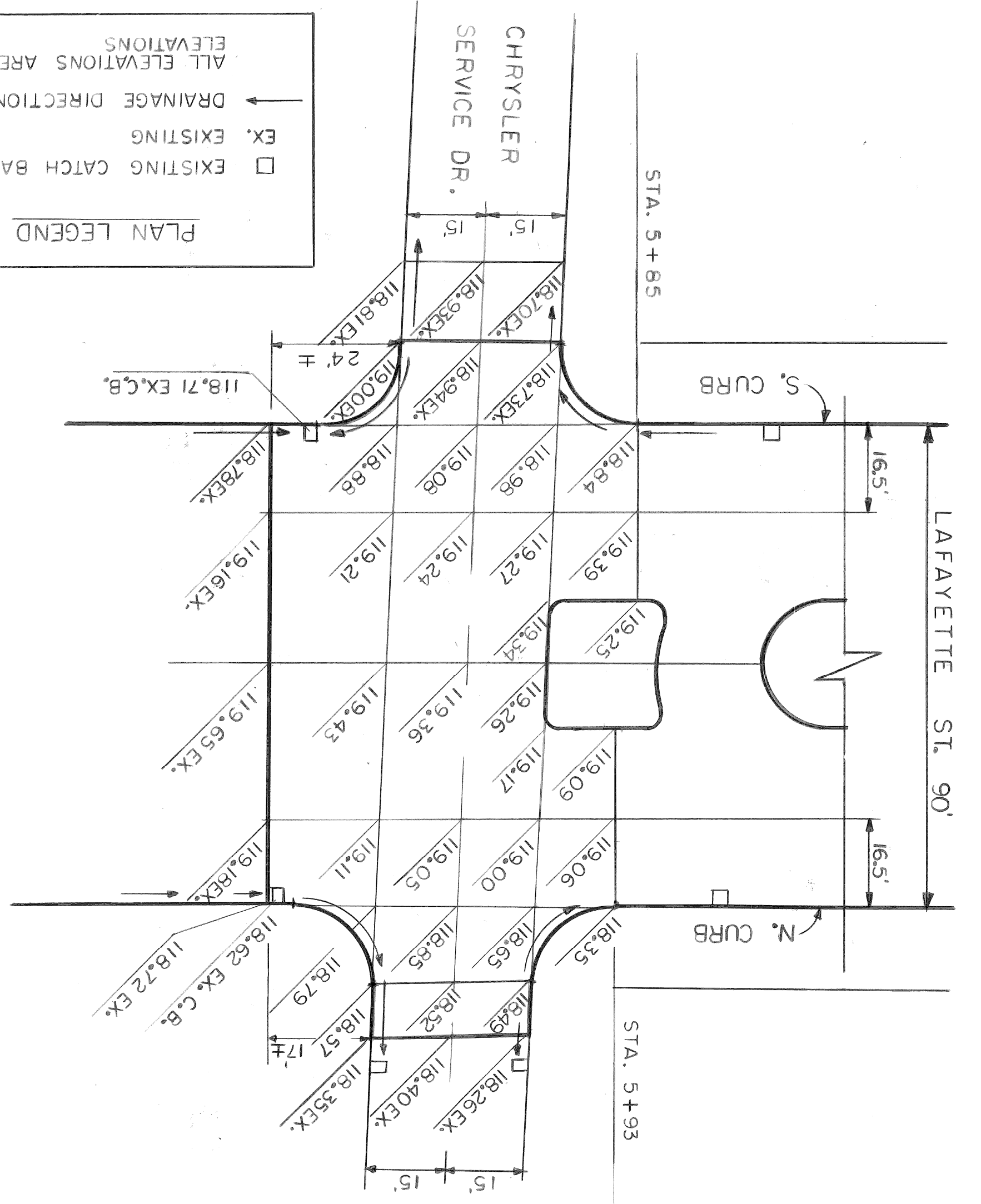
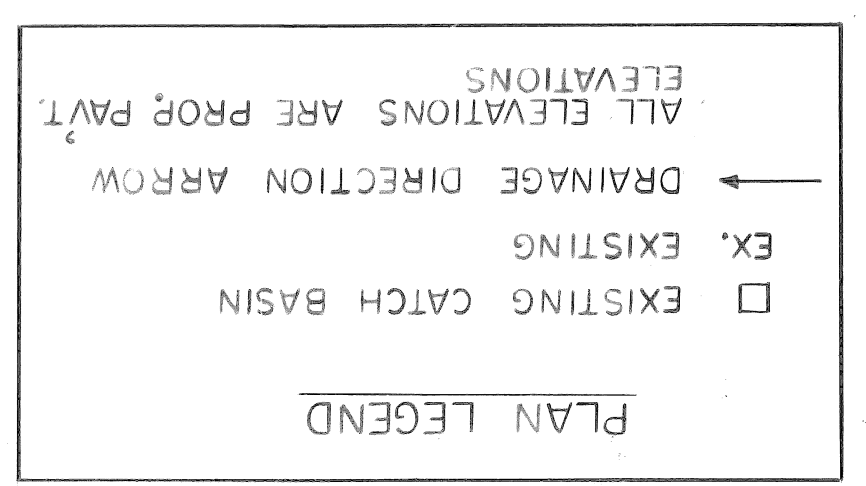
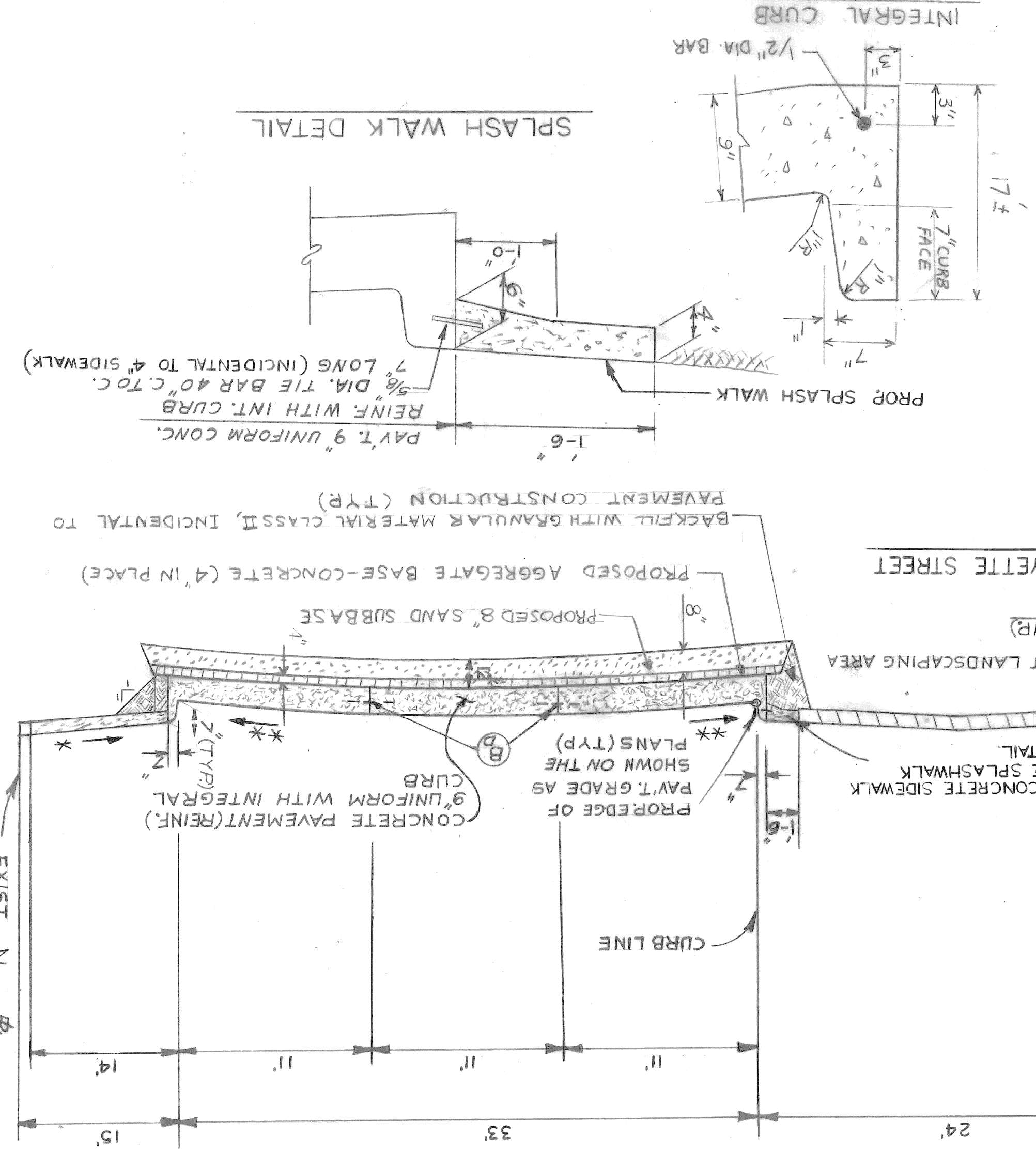
ELEMENTS OF PROP. 33' PAV'T.

PAV'T. WIDTH	CURB HEIGHT	T	A	B	C
33'	7"	VARIES	0.278	0.240	0.278

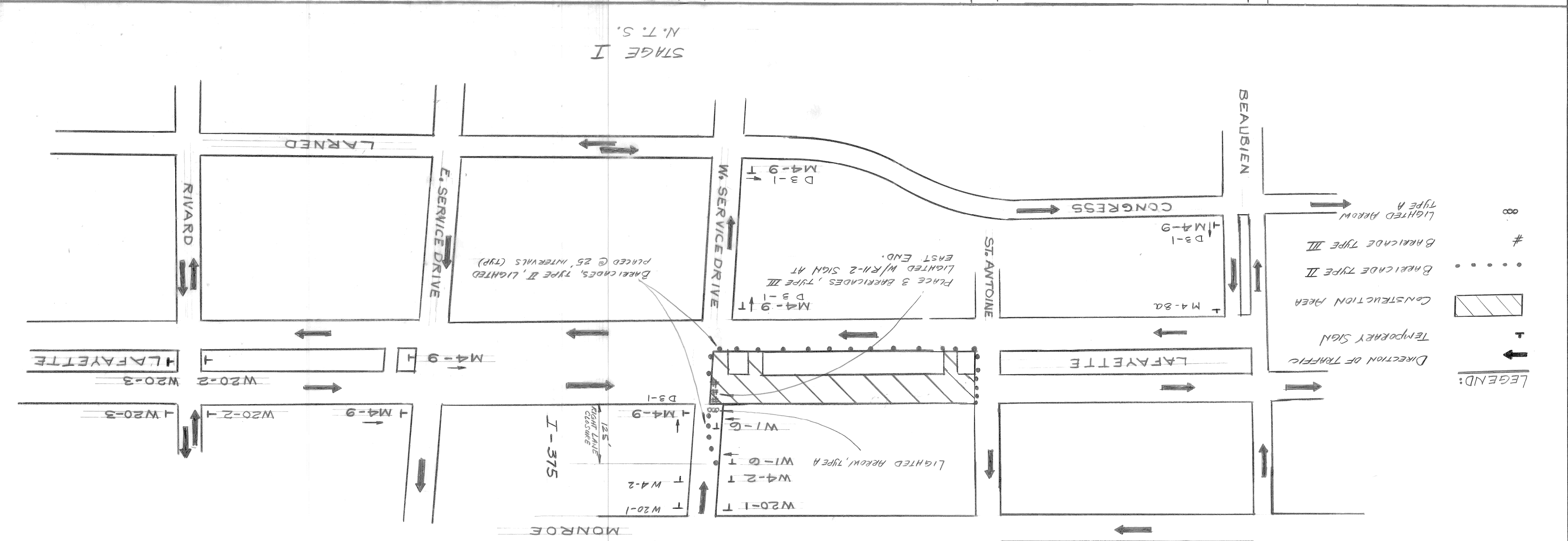
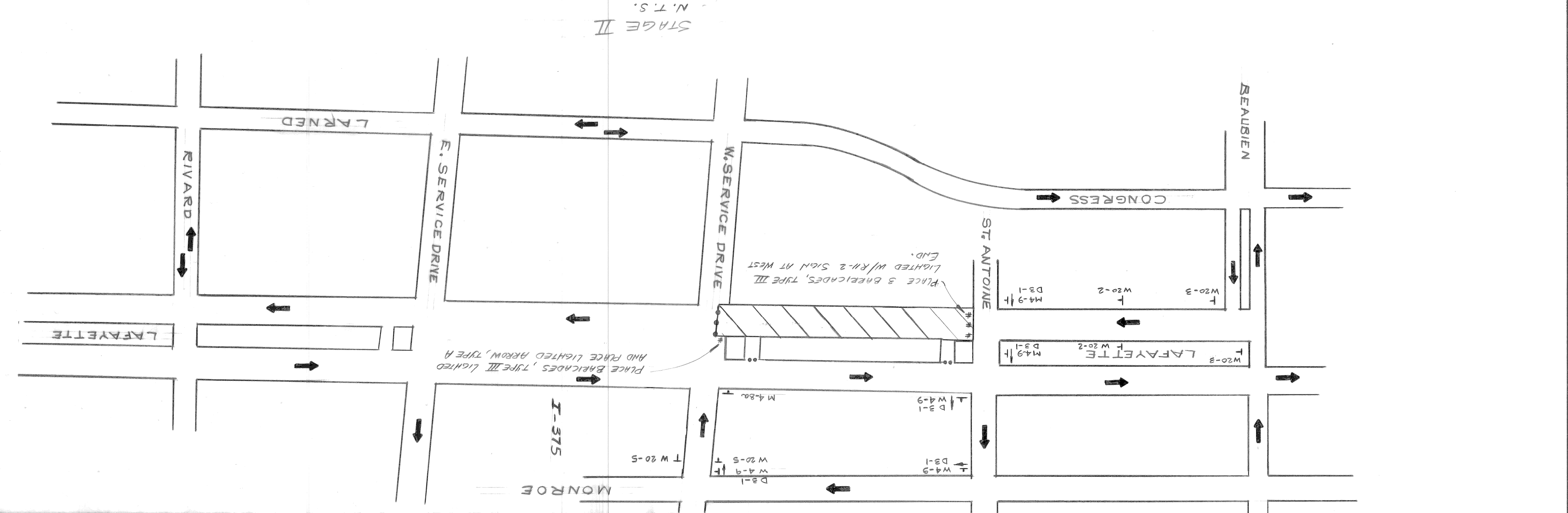


* SIDEWALK SHALL SLOPE AT 3/8" PER FOOT UNLESS THE ENGINEER DETERMINES OTHERWISE TO MEET EXISTING CONDITIONS. THE ENGINEER WILL CHOOSE WITHIN THESE LIMITS: 1/4" PER FOOT MINIMUM TO 3/4" PER FOOT MAXIMUM.

* * 0.02 PER FOOT MINIMUM SLOPE (SEE PLAN FOR GRADE).



DATE: MAY, 1993		STAGE I & II		CITY OF DETROIT		APPROVED BY: <i>[Signature]</i>		REVISIONS	
ASSIGNMENT NO.		CONSTRUCTION SEQUENCE		FOR		CHECKED BY: M.K.		DESCRIPTION	
CONTRACT NO. 89-22-30		MISCELLANEOUS CONSTRUCTION		BUREAU OF STREETS AND HIGHWAYS		GRADE		ESTIMATE	
SHEET 5 OF 12 SHEETS		REPAIRING OF LAFAYETTE FROM ST ANTOINE TO CHRYSLER SERVICE DRIVE AND		CITY ENGINEERING DEPARTMENT		PLAN		FINAL	



- LEGEND:
- ∞ LIGHTED ARROW TYPE A
 - # BARRICADE TYPE III
 - BARRICADE TYPE II
 - ▨ CONSTRUCTION AREA
 - T TEMPORARY SIGN
 - DIRECTION OF TRAFFIC

TEMPORARY SIGN QUANTITIES

4	LIGHTED ARROW, TYPE A - FINISHED	430	S.F.T
3	LIGHTED ARROW, TYPE A - OPERATED		
60	BARRICADE, TYPE II, LIGHTED - FINISHED		
55	BARRICADE, TYPE II, LIGHTED - OPERATED		
5	BARRICADE, TYPE III, LIGHTED - FINISHED		
5	BARRICADE, TYPE III, LIGHTED - OPERATED		
4	BARRICADE, TYPE III, LIGHTED - OPERATED		
1	MINOR TRAFFIC DEVICES		
430			

NOTE - FOR SYMBOLS & ETC. SEE STANDARD DETAIL DRAWING NO. C-1711

SCALE: HORIZONTAL: _____ VERTICAL: _____

BOOK: _____ PAGE: _____

DATE: _____

CONTRACTOR: _____

CONTRACT NO. _____

REVISIONS: _____

MARKS: _____

BENCH: _____

ELEV: _____

REVISIONS		DESCRIPTION

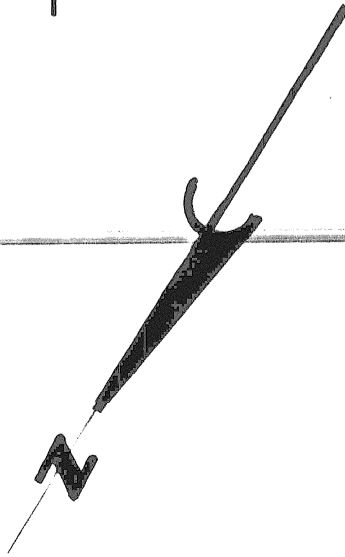
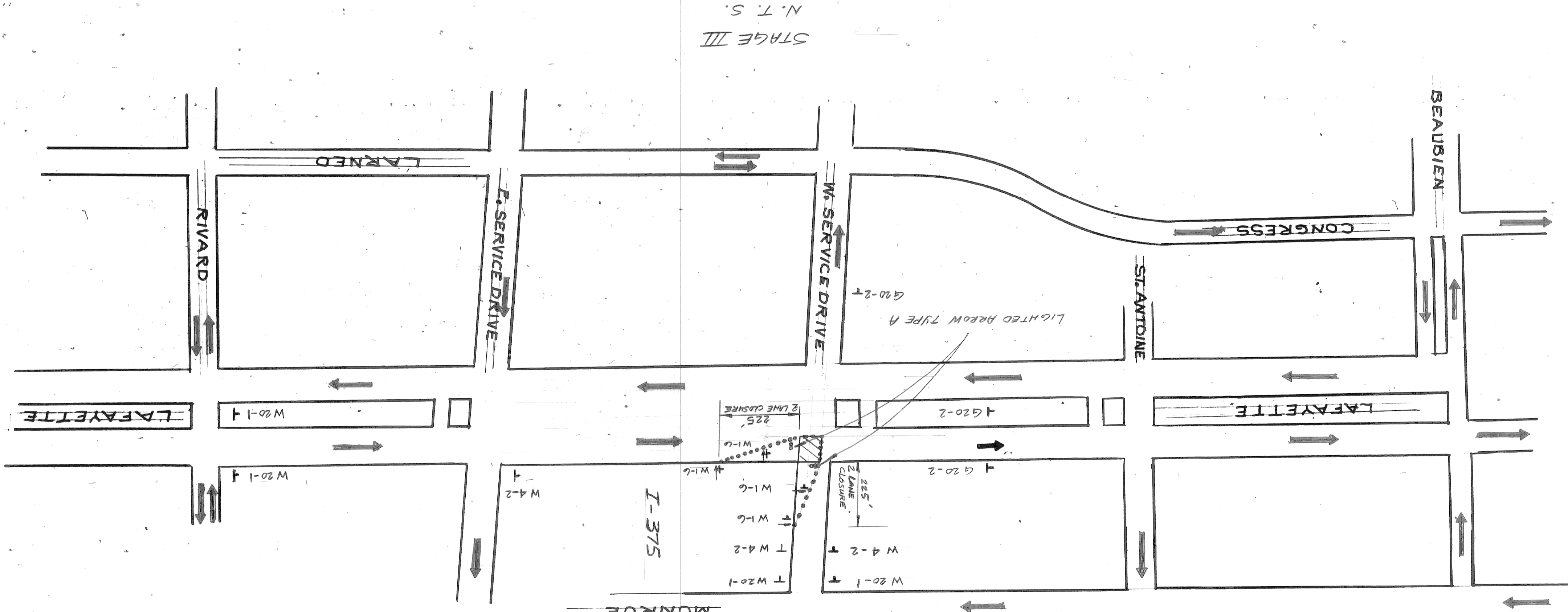
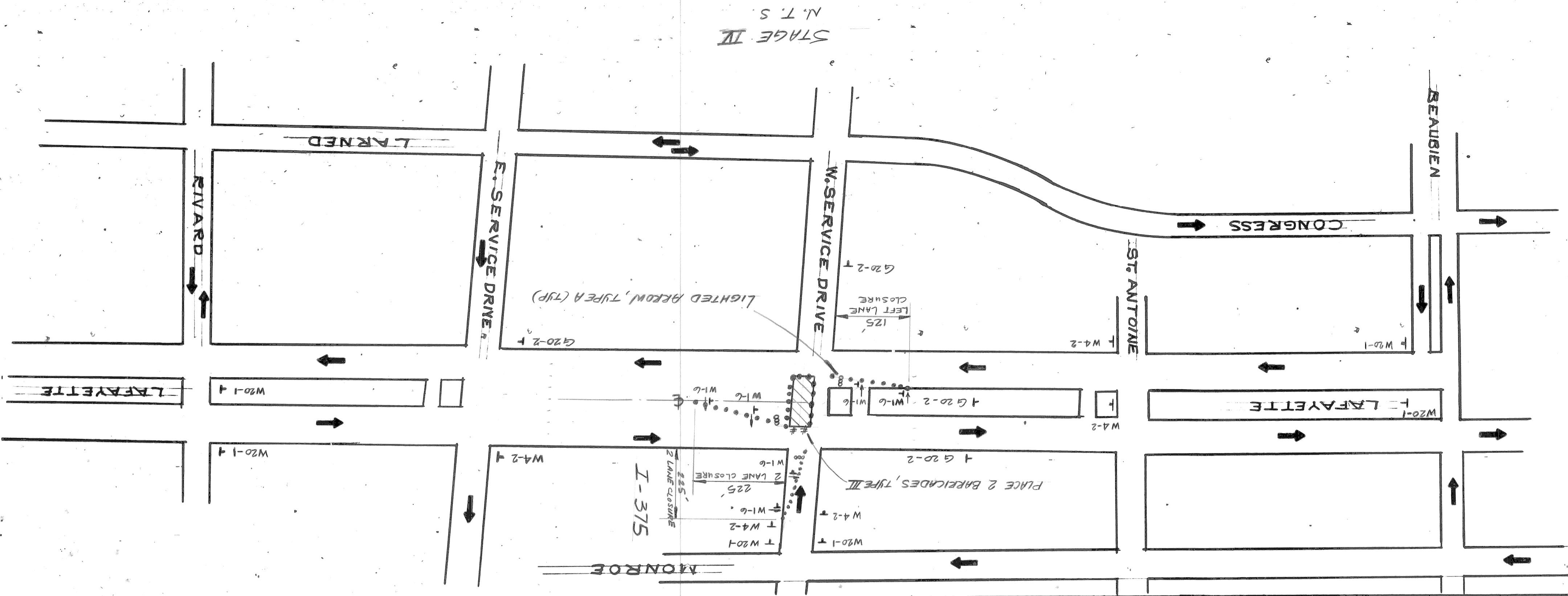
FINAL	CHECK	REVIEW

DATE	BY	CHECKED BY	APPROVED:

REPAIRING OF LAFAYETTE
ST. ANTOINE TO CHRYSLER SERVICE DRIVE AND
MISCELLANEOUS CONSTRUCTION
CONSTRUCTION SEQUENCE
STAGE III & IV

DATE: MAY 1993
ASSIGNMENT NO. 89 - 22 - 30
CONTRACT NO.
SHEET 6 OF 12 SHEETS

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



NOTE - FOR SYMBOLS & ETC. SEE STANDARD DETAIL DRAWING NO. C-417

SCALE: HORIZONTAL: 1" = 30' VERTICAL: 1" = 10'

BOOK NO. DATE: NO. DATE: HAVING COMPLETED: CONTRACTOR: BEARS STAMPING CONSTRUCTION CONTRACTOR: MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLAN.

BENCH MARKS ELEV.

REVISIONS				DATE	BY	CHECKED BY	APPROVED BY
NO.	DESCRIPTION	DATE	BY				

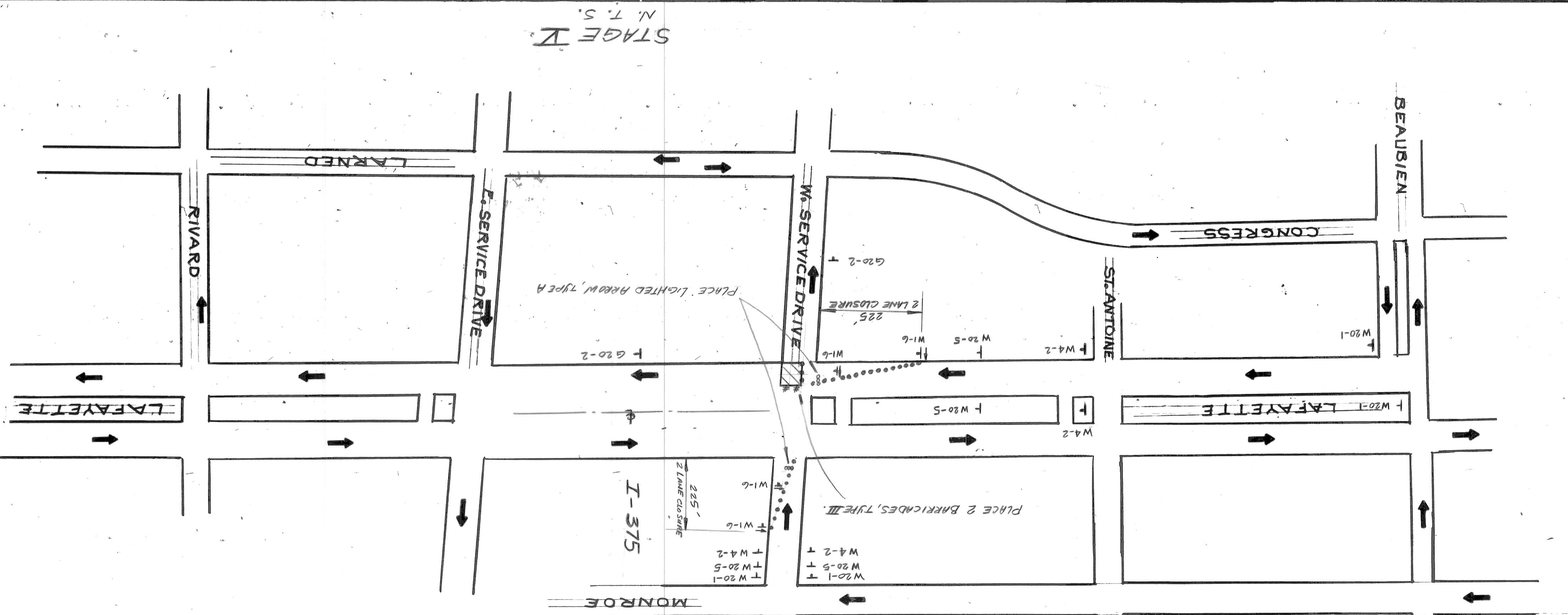
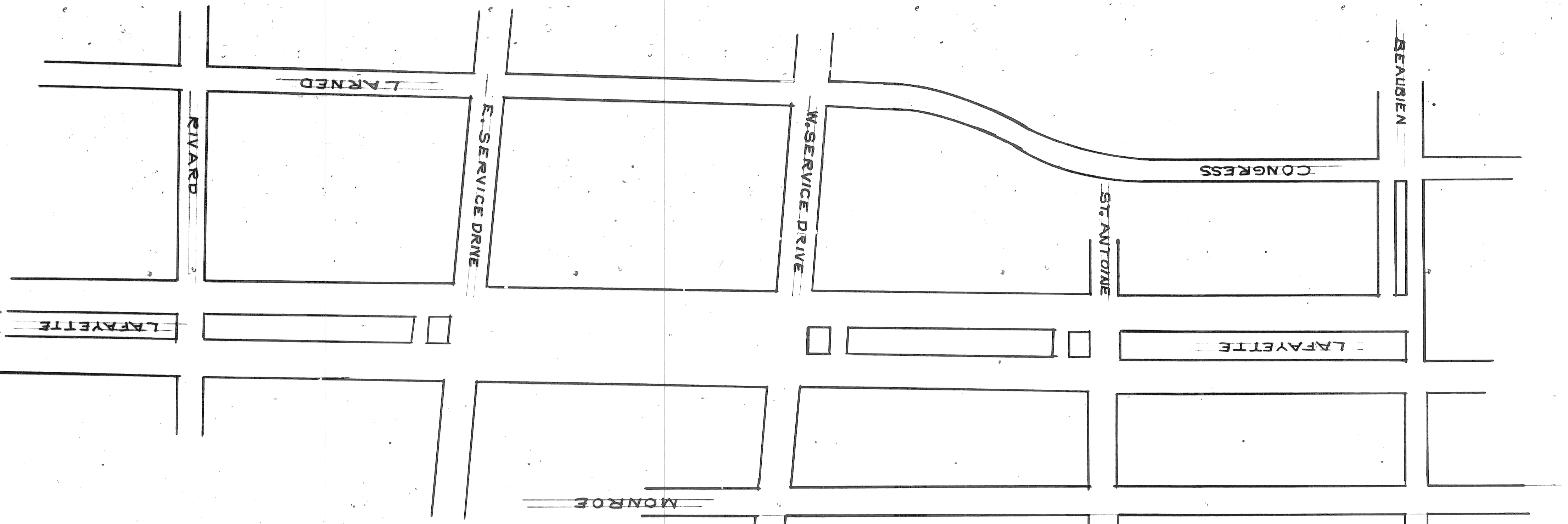
PLAN	F.P.	M.K.
GRADE		
ESTIMATE		
CHECK		
FINAL		

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

CONSTRUCTION SEQUENCE
STAGE V
REPAIRING OF LAFAYETTE FROM
ST. ANTOINE TO CHRYSLER SERVICE DRIVE AND
MISCELLANEOUS CONSTRUCTION

CONTRACT NO.
SHEET 7 OF 12 SHEETS

DATE: MAY, 1993
ASSIGNMENT NO.: 89-22-30



SCALE	HORIZONTAL	
SCALE	VERTICAL	

BOOK	
LEAF	

NO.	
PG.	

NOTE - FOR SYMBOLS & ETC. SEE STANDARD DETAIL DRAWING NO. C-117

BENCH MARKS

ELEV

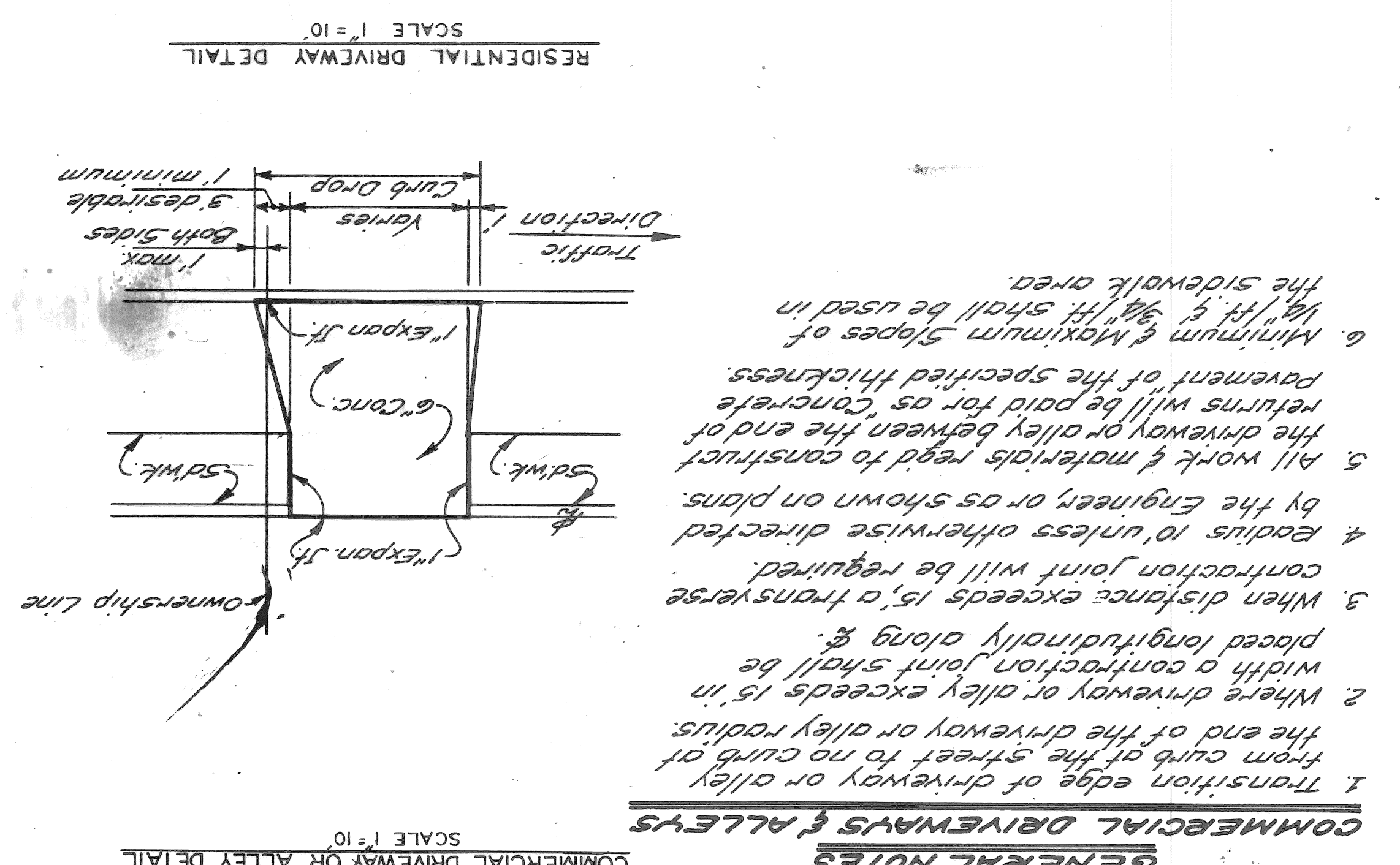
REVISIONS TO BE LISTED BY COORDINATES ON SHEET

NO.	DATE	DESCRIPTION

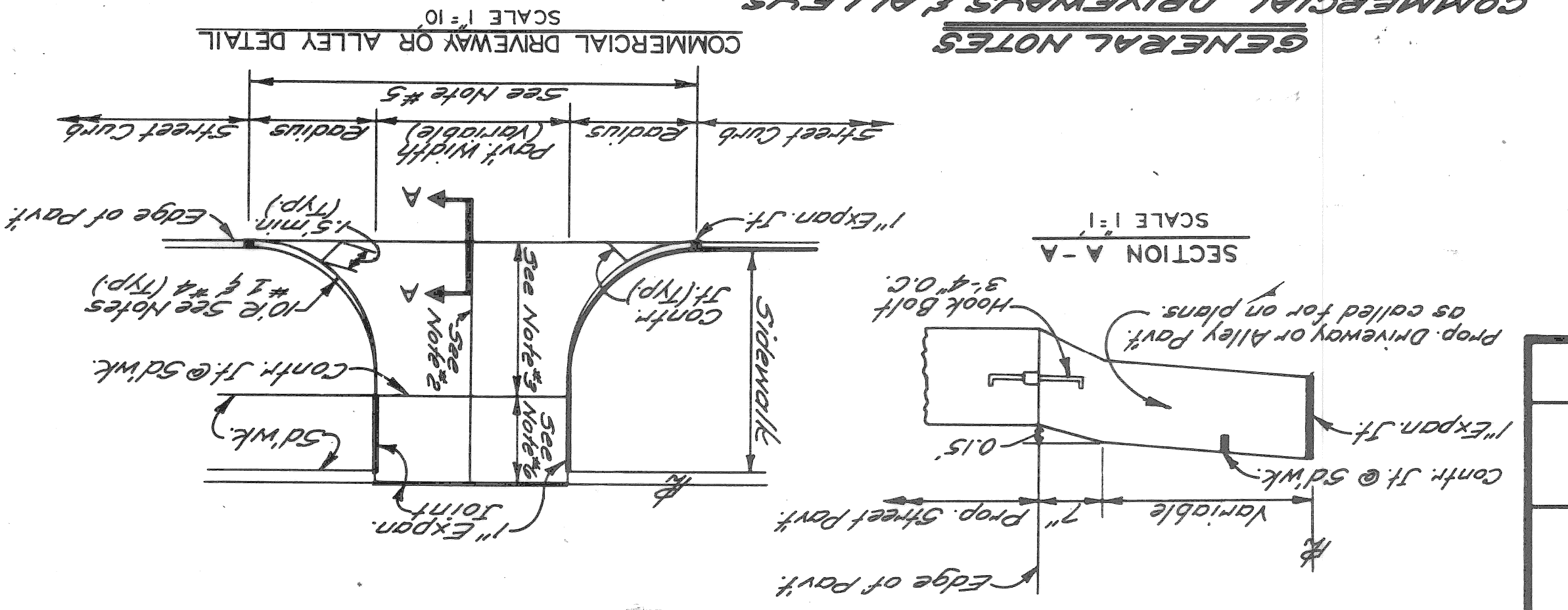
APPROVED <i>Allen E. James</i>	ENGINEER OF EXPRESSWAYS
DRAWN BY J.R.D.	
TRACED BY M.B.	
CHECKED BY M.B.	

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

SHEET 8 OF 12 SHEETS	CONTRACT NO.	DATE: MAY, 1993
REPAVING OF LAFAYETTE FROM ST ANTOINE TO CHRYSLER SERVICE DRIVE AND MISCELLANEOUS CONSTRUCTION		
SPECIAL STANDARDS & SPECIAL DETAILS		



- GENERAL NOTES**
1. Transition edge of driveway or alley from curb of the street to no curb at the end of the driveway or alley radius.
 2. Where driveway or alley exceeds 15' in width a contraction joint shall be placed longitudinally along &.
 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 & materials used to construct the driveway or alley between the end of the driveway or alley shall be concrete. Pavement of the specified thickness.
 6. Minimum & Maximum Slopes of 1/4" ft & 3/4" ft shall be used in the sidewalk area.



COLOR	SYMBOL	DESCRIPTION
BLACK	---	PROPERTY AND LOT LINES
BLACK	---	PROPOSED CURB LINES AND HEADERS AT RETURNS
	---	EXISTING GAS LINES OR EDGE OF PAVEMENT
	---	EXISTING WATER LINES
	---	PROPOSED SEWER TO CATCH BASINS
	---	EXISTING LATERAL SEWERS
	---	EXISTING PUBLIC SEWERS
	---	EXISTING GAS LINES
	---	EXISTING WATER LINES
	---	ELEV OF SEWER INVERT
BLACK	---	PROPOSED CURB, M.H. & INLET SEWER
	---	CURB LINE
	---	EXISTING CURB, M.H. & INLET SEWERS
	---	ELEV
	---	EXISTING CURB, M.H. & INLET SEWERS
	---	ON INTERSECTING STREETS
	---	PROPOSED CURB, M.H. & INLET SEWERS
	---	ON INTERSECTING STREETS

SYMBOL	DESCRIPTION
○	PLC MANHOLE @ PLC MANHOLE
⊕	WATER MANHOLE OR GRATE
⊕	GAS MANHOLE OR GRATE
⊕	WESTERN UNION MANHOLE
○	EXISTING CURB LINES OR EDGE OF PAVEMENT
---	PROPOSED CURB OR PAVING
---	ON INTERSECTING STREET
---	PROPOSED SEWER TO CATCH BASINS
---	EXISTING LATERAL SEWERS
---	EXISTING PUBLIC SEWERS
---	EXISTING GAS LINES
---	EXISTING WATER LINES
---	ELEV OF SEWER INVERT
---	CURB LINE
---	PROPOSED CURB, M.H. & INLET SEWER
---	ELEV
---	EXISTING CURB, M.H. & INLET SEWERS
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---	EXISTING PUBLIC SEWERS
---	EXISTING GAS LINES
---	EXISTING WATER LINES
---	ELEV OF SEWER INVERT
---	CURB LINE
---	PROPOSED CURB, M.H. & INLET SEWER
---	ELEV
---	EXISTING CURB, M.H. & INLET SEWERS
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---	EXISTING PUBLIC SEWERS
---	EXISTING GAS LINES
---	EXISTING WATER LINES
---	ELEV OF SEWER INVERT
---	CURB LINE
---	PROPOSED CURB, M.H. & INLET SEWER
---	ELEV
---	EXISTING CURB, M.H. & INLET SEWERS
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---	EXISTING WATER LINES
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---	PROPOSED CURB, M.H. & INLET SEWER
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---	EXISTING PUBLIC SEWERS
---	EXISTING GAS LINES
---	EXISTING WATER LINES
---	ELEV OF SEWER INVERT
---	CURB LINE
---	PROPOSED CURB, M.H. & INLET SEWER
---	ELEV
---	EXISTING CURB, M.H. & INLET SEWERS
---	ON INTERSECTING STREETS
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---	ON INTERSECTING STREETS
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---	ON INTERSECTING STREETS

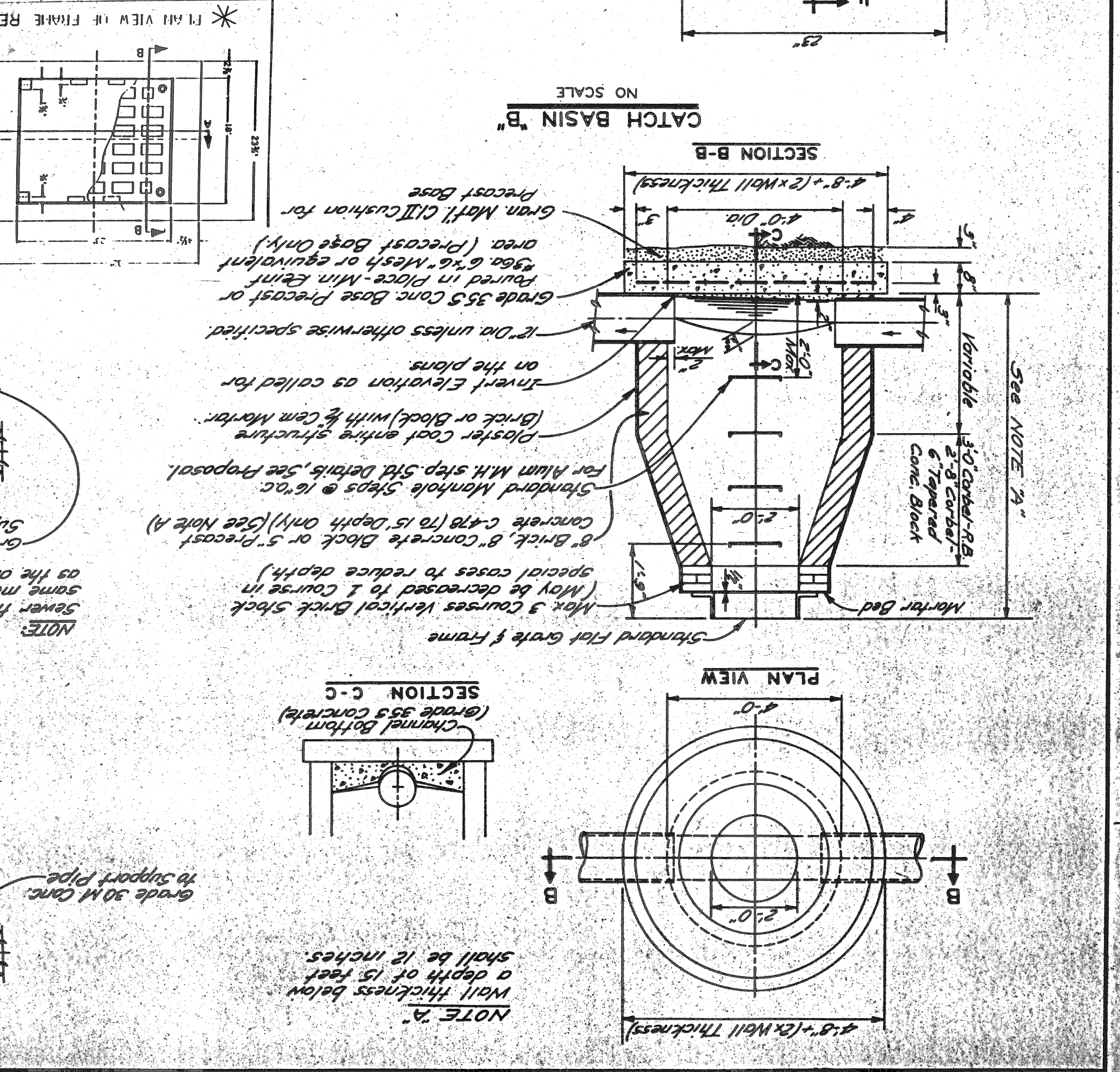
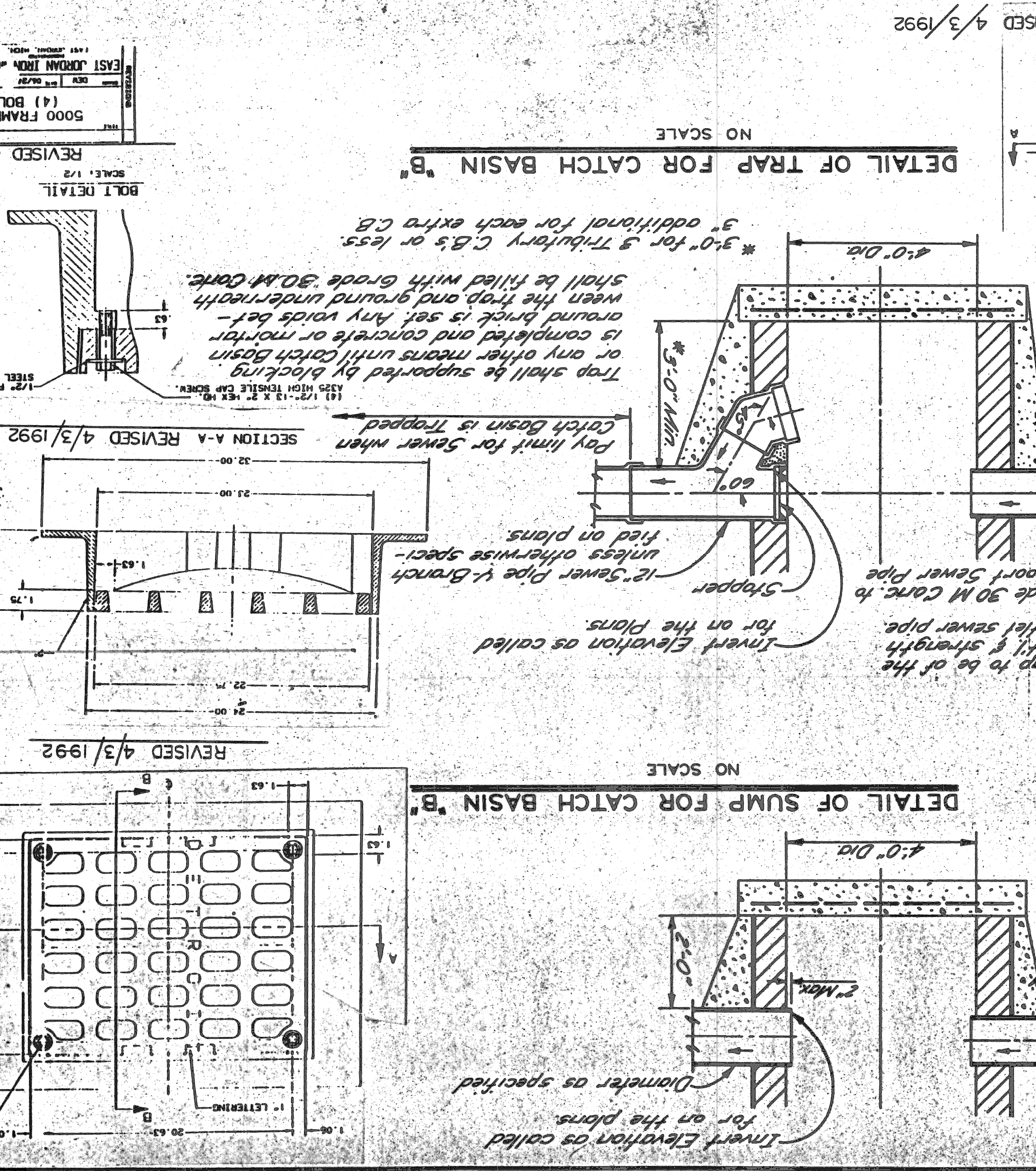
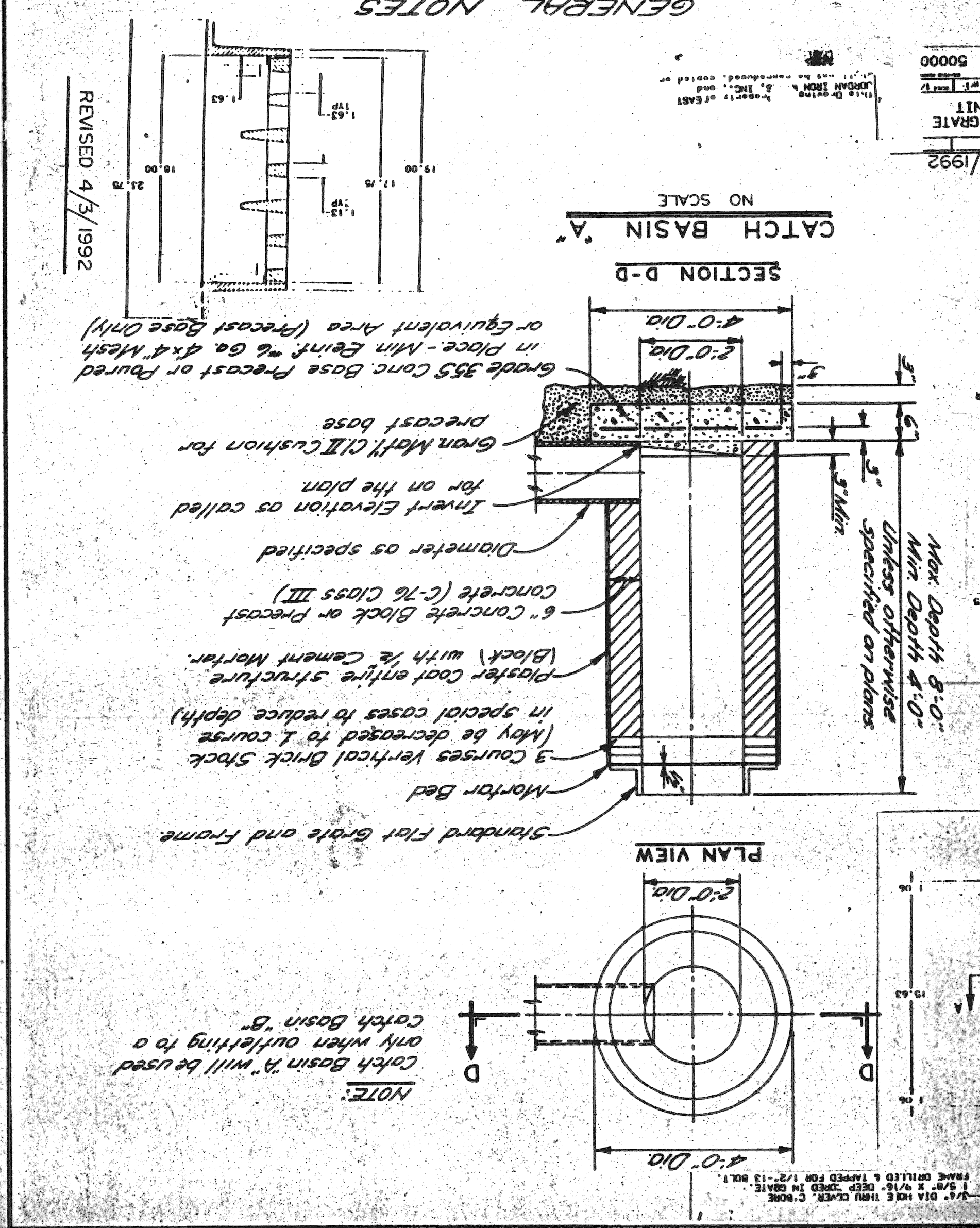
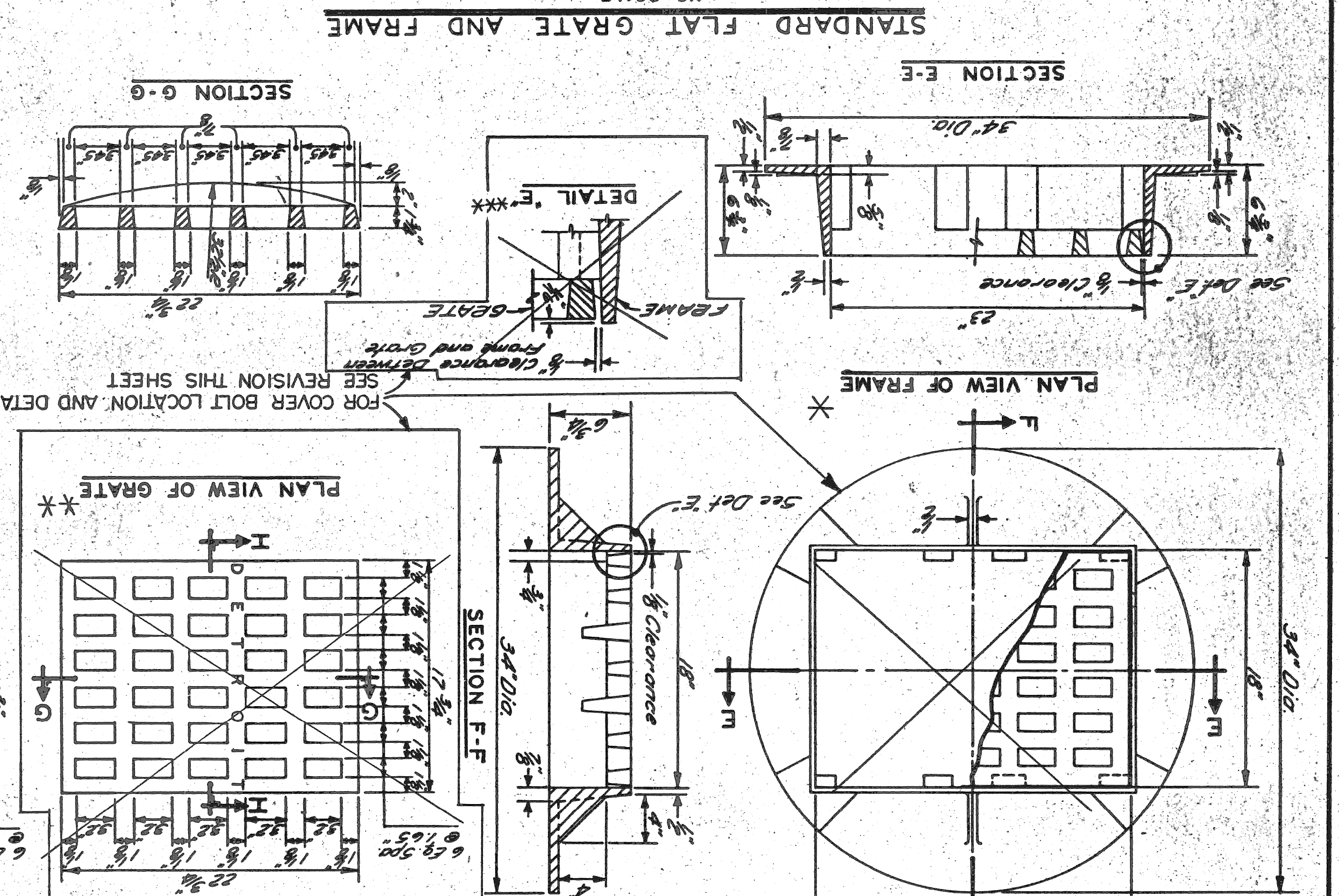
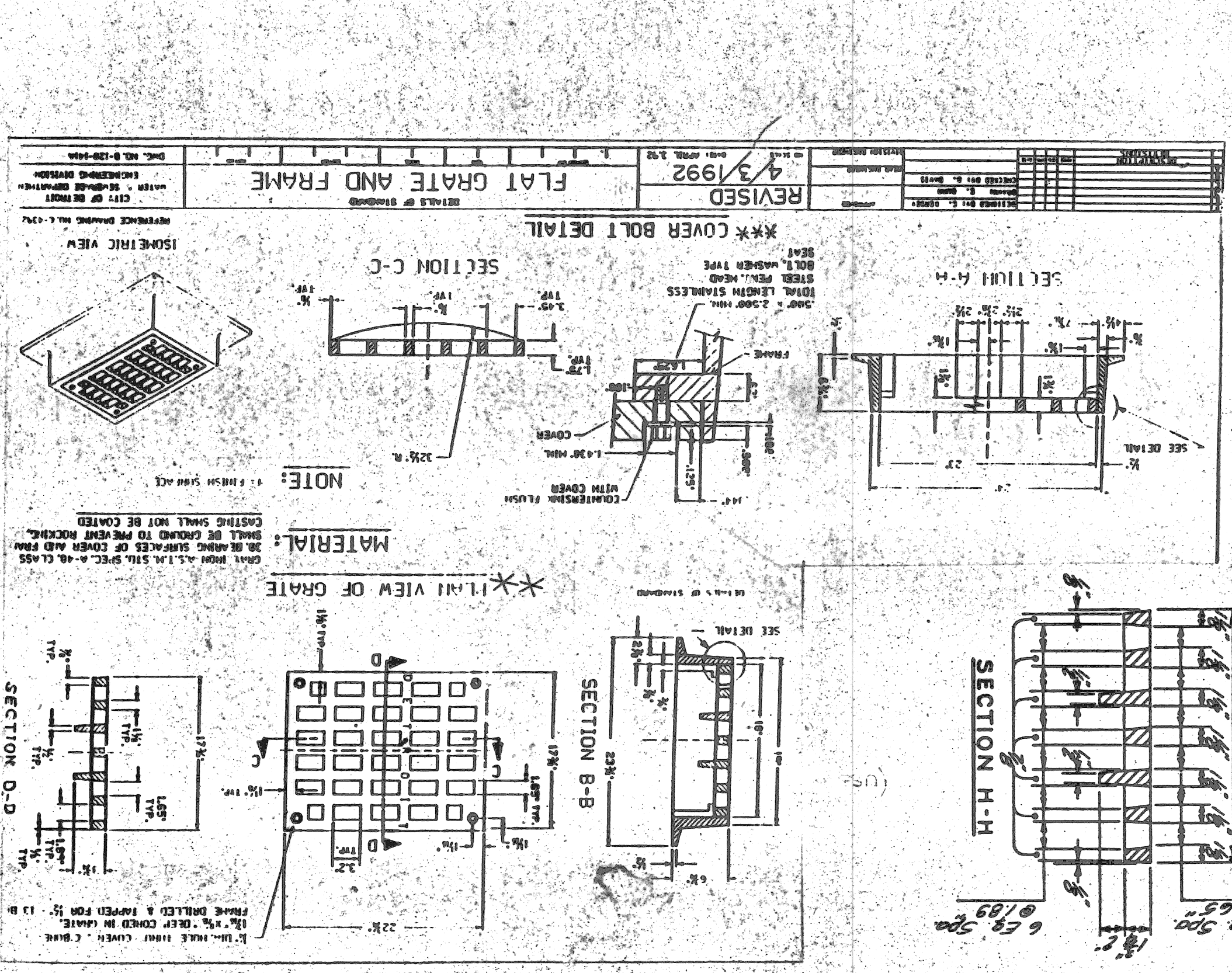
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
BUREAU OF DESIGN
PAVING
DETAIL NO 25
BRG C-902-A

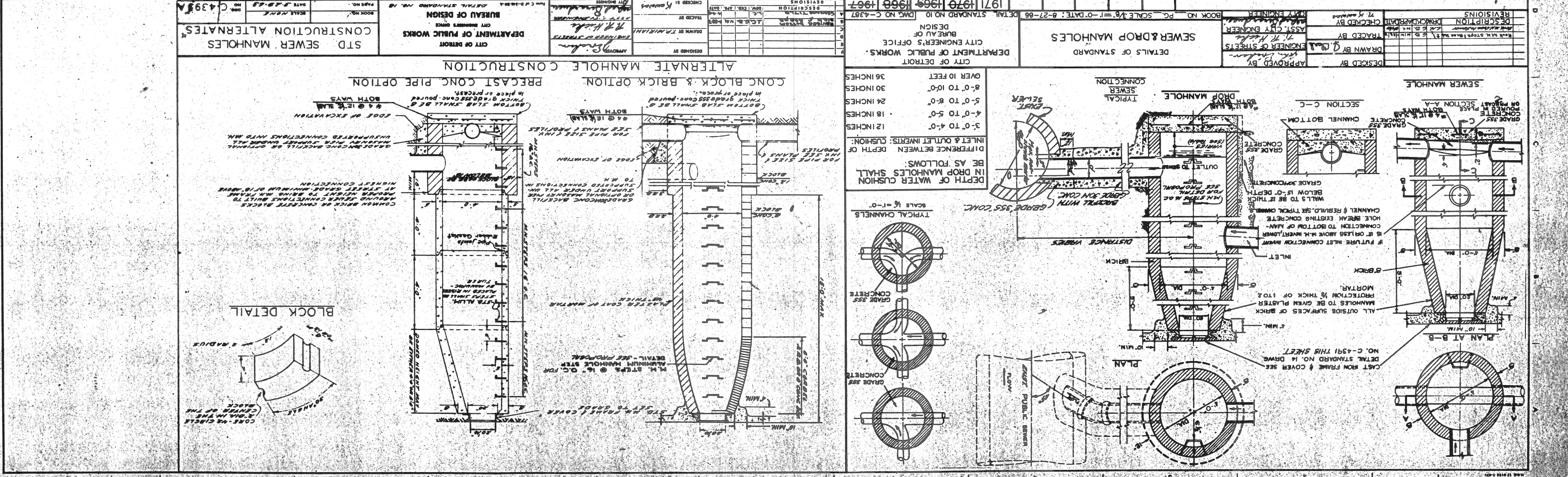
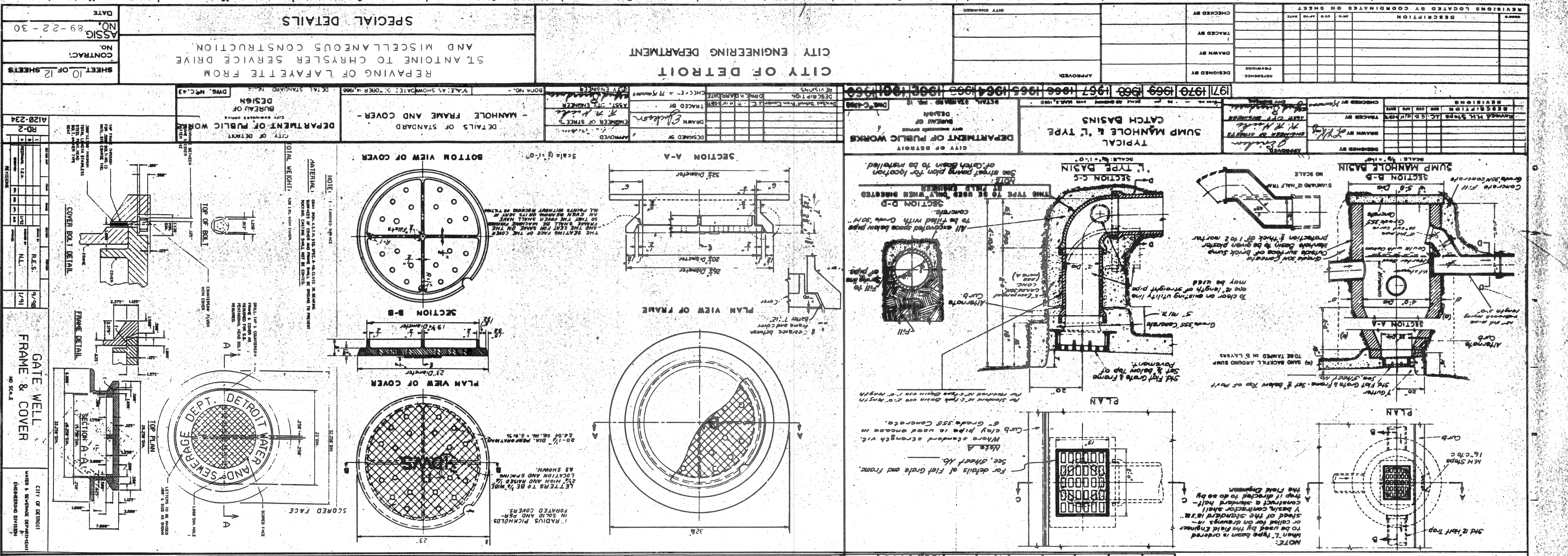
DETAILS OF STANDARD
CATCH BASINS "A" & "B"
AND FLAT GRATE & FRAME
AND COVER BOLT DETAIL

CITY OF DETROIT
CITY ENGINEERS OFFICE

DESIGNED BY	APPROVED	REVISIONS LOCATED BY COORDINATES ON SHEET
DRAWN BY	ENGINEER OF STREETS	
TRACED BY	ENGINEER OF EXPRESSWAYS	
CHECKED BY	HEAD CIVIL ENGINEER	
D. MILZ		

- 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. 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.
 - The traps will be paid for separately of the contract unit price each, which price shall include the extra catch basin construction required and 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, structure to indicated elevations shall be altered in the field to clear existing utilities. Such alterations, upward or downward, shall be of no change 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 in 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, connector, such as Press-Wedge by Press Seal Gasket Corp. or Eas-Seal by Stearns, Wily Corp.
 - Pay limit for sewers shall be inside faces of structures unless otherwise noted.





NO.	REVISIONS	DESCRIPTION	DATE	BY

NO.	REVISIONS	DESCRIPTION	DATE	BY

NO.	REVISIONS	DESCRIPTION	DATE	BY

NO.	REVISIONS	DESCRIPTION	DATE	BY

NO.	REVISIONS	DESCRIPTION	DATE	BY

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QUANTITY SHEET - E

SHEET NOS.	ITEMS	AS		PER		PLANS		AS CONSTRUCTED	
		TOTALS	UNITS	TOTALS	UNITS	TOTALS	UNITS	TOTALS	UNITS
5-7	Removing Pavement	5720	SYD.						
	Removing Sidewalk	1800	SYD.						
	Earth Excavation	1850	CYD.						
	Subgrade Undercutting Type II	100	CYD.						
	Remove Masonry And Concrete Structures	100	CYD.						
	Subbase (C.I.P.)	1050	CYD.						
	Aggregate Base Under Concrete (4" in place)	600	SYD.						
	Removing Bituminous Surface	50	SYD.						
	Blindous Approach	8	TON						
	Concrete Pavement Nonreinforced 8"	260	SYD.						
	Concrete Pavt With Integral Curb Reinforced 9"	5400	SYD.						
	Cement	8	TON						
	Catch Basin "A"	1	EACH						
	Catch Basin "B"	1	EACH						
	Class C76-1Y Sewer, 12", Trench Detail B	100	LFT						
	Adjusting Water Shutoff	3	EACH						
	Adjusting Drainage Structure Cover Case 1	18	EACH						
	Adjusting Drainage Structure Cover Case 2	18	EACH						
	Reconstructing Drainage Structure Case 1	2	EACH						
	Reconstructing Drainage Structure Case 2	2	EACH						
	Concrete Sidewalk, 4"	16500	SFT						
	Concrete Sidewalk, 6"	1550	SFT						
	Sidewalk Ramps - Modified	850	SFT						
	Mobilization	1	L.S.						
	Overlay Cold Plastic Pavt Marking, 4", White	560	LFT						
	Overlay Cold Plastic Pavt Marking, 18", Stop Bar	220	LFT						
	Overlay Cold Plastic Pavt Marking, 6", Crosswalk	2100	LFT						
	Lighted Arrow, Type A, Furnished	4	EACH						
	Lighted Arrow, Type A, Operated	3	EACH						
	Barricade Type II, Lighted - Furnished	100	EACH						
	Barricade Type II, Lighted - Operated	60	EACH						
	Barricade Type III, Lighted - Furnished	5	EACH						
	Barricade Type III, Lighted - Operated	4	EACH						
	Minor Traffic Devices	1	L.S.						
	Flag Control	1	L.S.						
	Sign, Type B, Temporary - Furnished	430	SFT						
	Sign, Type B, Temporary - Operated	300	SFT						
	Class A Sodding	210	SYD.						
	Top Soil Surface (L.M.)	17	CYD.						
	Water	3	UNIT						
	Subgrade Underdrain - 6"	100	LFT						
	Temporary Pavt Marking, Type "R", 4" White	100	LFT						