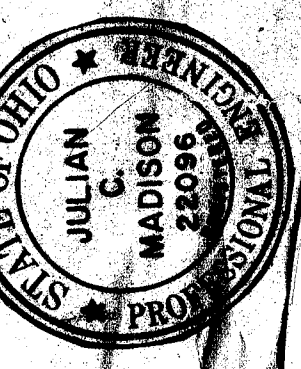
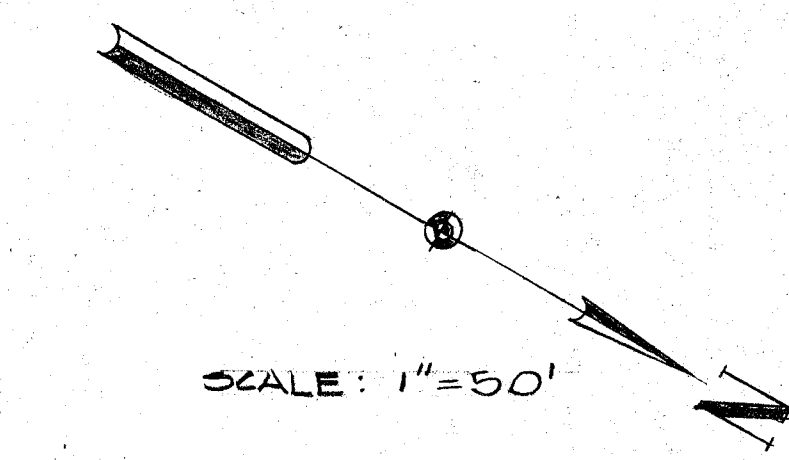


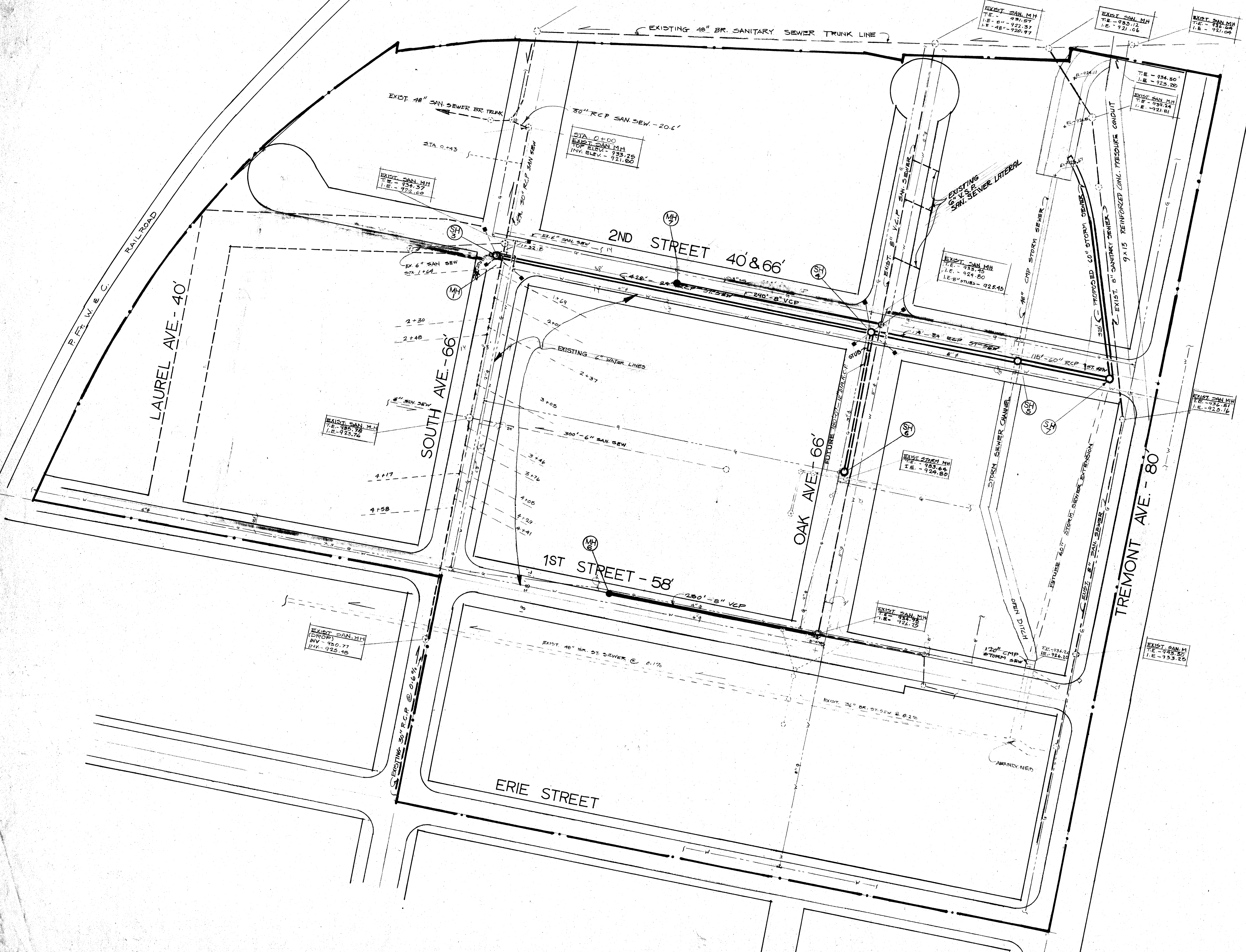


DATE	7-5-72
SCALE	1"=50'
DESIGNED	J.C.M.
CHECKED	J.C.M.
APPROVED	J.C.M.



LEGEND

- SANITARY SEWER & MANHOLE - PROPOSED
- SANITARY SEWER & MANHOLE - EXISTING
- STORM SEWER & MANHOLE - PROPOSED
- STORM SEWER & MANHOLE - EXISTING
- WATER LINE - PROPOSED
- WATER LINE - EXISTING
- GAS LINE - EXISTING
- CATCH BASIN - PROPOSED
- CATCH BASIN - EXISTING
- CONTRACT LIMITS



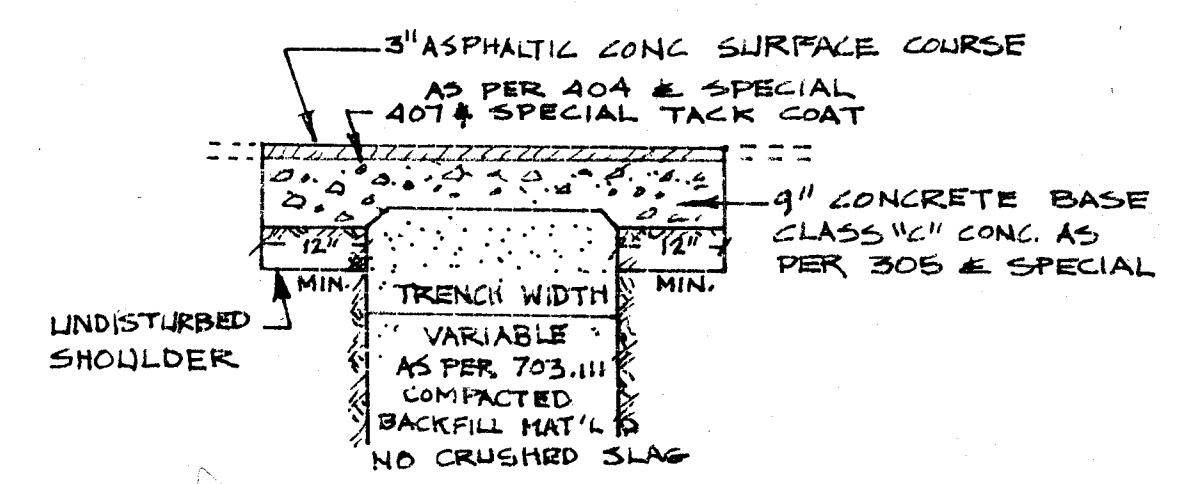
SITE PLAN - UTILITIES			
CITY OF MASSILLON 2 LOWRY - PRICE			
NEIGHBORHOOD DEVELOPMENT PROGRAM URBAN RENEWAL AREA OHIO PROJECT A-15			
NOV 1972	REV. NO.	NATURE OF REVISION	REV. BY
FILE NO. P-297 ACC. NO. 2608			

LEGEND

- W--- EXISTING WATER LINE (INCL. LINE TO BE REPLACED)
- W--- PROPOSED NEW WATER LINE
- S--- EXISTING 8" SANITARY SEWER LINE
- S--- PROPOSED NEW 8" SANITARY SEWER LINE
- S--- PROPOSED NEW STORM SEWER LINE
- G--- EXISTING GAS MAIN
- S--- SEWER LATERALS - 6" OR LESS
- C--- EXISTING AND/OR PROPOSED CURB

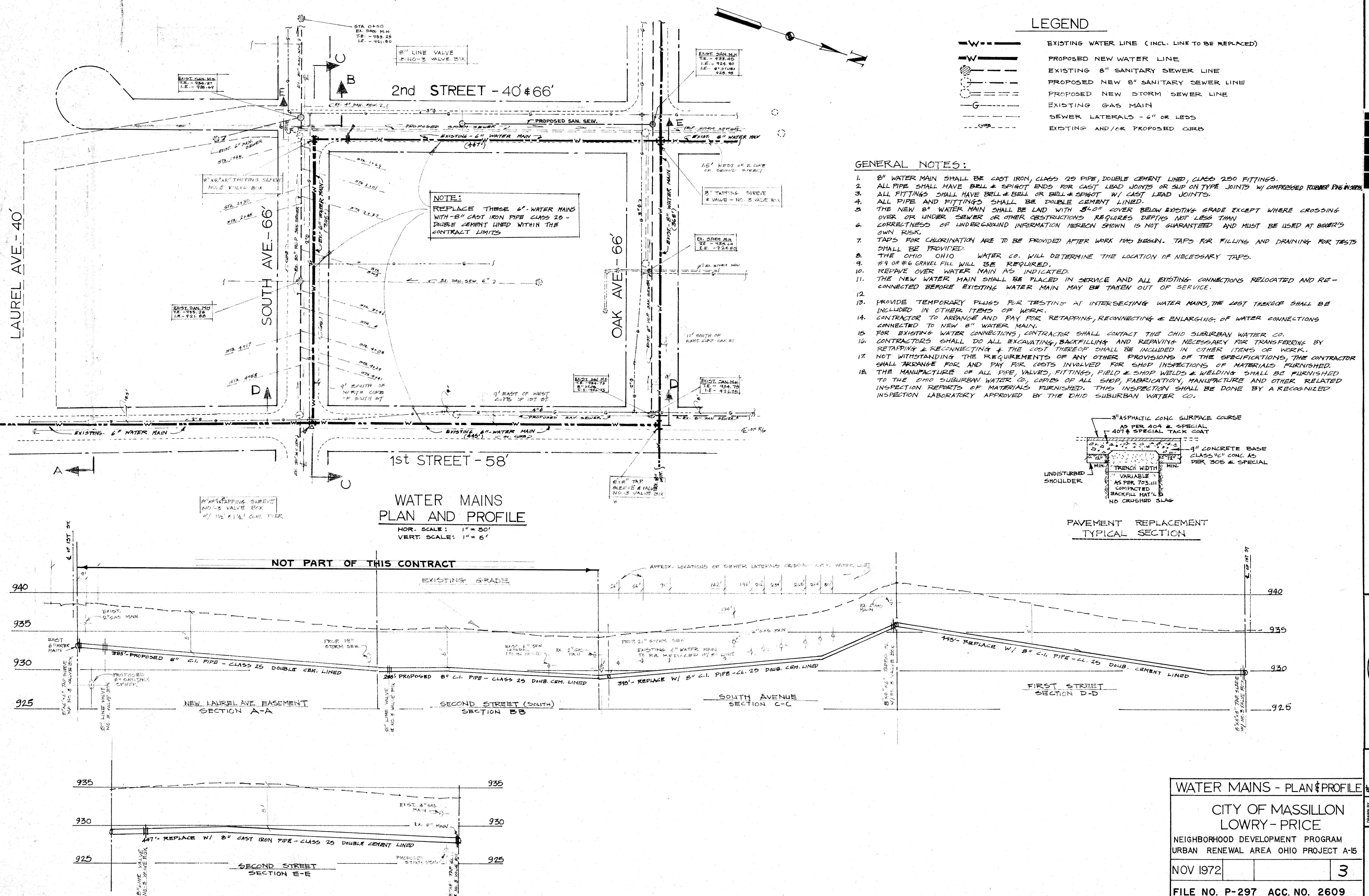
GENERAL NOTES:

- 8" WATER MAIN SHALL BE CAST IRON, CLASS 25 PIPE, DOUBLE CEMENT LINED, CLASS 250 FITTINGS.
- ALL PIPE SHALL HAVE BELL & SPIGOT ENDS FOR CAST LEAD JOINTS OR SHIP ON TYPE JOINTS W/ COMPRESSED RUBBER RINGS.
- ALL FITTINGS SHALL HAVE BELL & SPIGOT OR BELL & SPIGOT W/ CAST LEAD JOINTS.
- ALL PIPE AND FITTINGS SHALL BE DOUBLE CEMENT LINED.
- THE NEW 8" WATER MAIN SHALL BE LAD WITH 54.0" COVER BELOW EXISTING GRADE EXCEPT WHERE CROSSING OVER OR UNDER SEWER OR OTHER OBSTRUCTIONS REQUIRES DEPTHS NOT LESS THAN
- CORRECTNESS OF UNDERGROUND INFORMATION HEREON SHOWN IS NOT GUARANTEED AND MUST BE USED AT BIDDER'S OWN RISK.
- TAPS FOR CHLORINATION ARE TO BE PROVIDED AFTER WORK HAS BEGUN. TAPS FOR FILLING AND DRAINING FOR TESTS SHALL BE PROVIDED.
- THE OHIO OHIO WATER CO. WILL DETERMINE THE LOCATION OF NECESSARY TAPS.
- #4 OR #6 GRAVEL FILL WILL BE REQUIRED.
- REPAVE OVER WATER MAIN AS INDICATED.
- THE NEW WATER MAIN SHALL BE PLACED IN SERVICE AND ALL EXISTING CONNECTIONS RELOCATED AND RE-CONNECTED BEFORE EXISTING WATER MAIN MAY BE TAKEN OUT OF SERVICE.
- PROVIDE TEMPORARY PLUGS FOR TESTING AT INTERSECTING WATER MAINS, THE COST THEREOF SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- CONTRACTOR TO ARRANGE AND PAY FOR RETAPPING, RECONNECTING & ENLARGING OF WATER CONNECTIONS CONNECTED TO NEW 8" WATER MAIN.
- FOR EXISTING WATER CONNECTIONS, CONTRACTOR SHALL CONTACT THE OHIO SUBURBAN WATER CO.
- CONTRACTORS SHALL DO ALL EXCAVATING, BACKFILLING AND REPAVING NECESSARY FOR TRANSFERRING BY RETAPPING & RECONNECTING & THE COST THEREOF SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- NOT WITHSTANDING THE REQUIREMENTS OF ANY OTHER PROVISIONS OF THE SPECIFICATIONS, THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR COSTS INVOLVED FOR SHOP INSPECTIONS OF MATERIALS FURNISHED.
- THE MANUFACTURE OF ALL PIPE, VALVES, FITTINGS, FIELD & SHOP WELDS & WELDING SHALL BE FURNISHED TO THE OHIO SUBURBAN WATER CO., COPIES OF ALL SHOP, FABRICATION, MANUFACTURE AND OTHER RELATED INSPECTION REPORTS OF MATERIALS FURNISHED. THIS INSPECTION SHALL BE DONE BY A RECOGNIZED INSPECTION LABORATORY APPROVED BY THE OHIO SUBURBAN WATER CO.

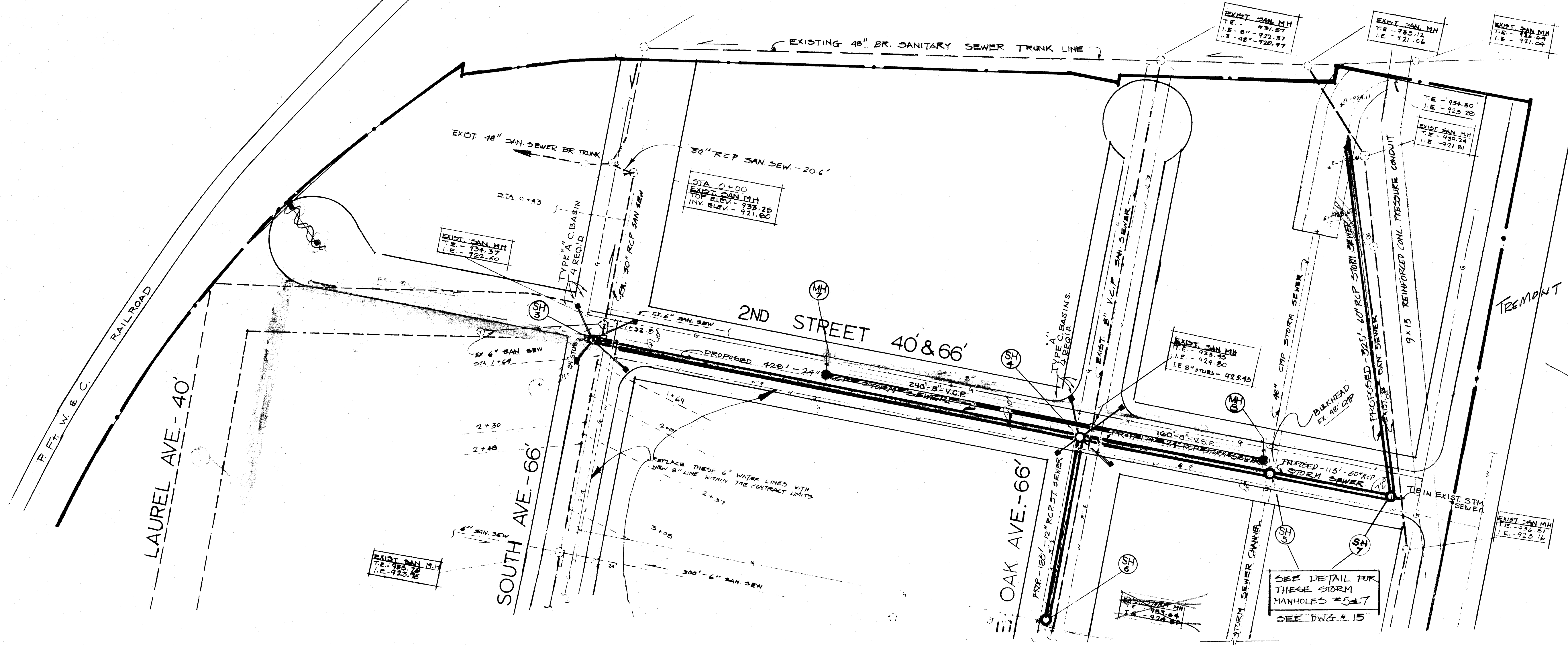


PAVEMENT REPLACEMENT
TYPICAL SECTION

WATER MAINS
PLAN AND PROFILE
HOR. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'



WATER MAINS - PLAN & PROFILE	
CITY OF MASSILLON LOWRY - PRICE	
NEIGHBORHOOD DEVELOPMENT PROGRAM URBAN RENEWAL AREA OHIO PROJECT A-15	
NOV 1972	3
FILE NO. P-297 ACC. NO. 2609	

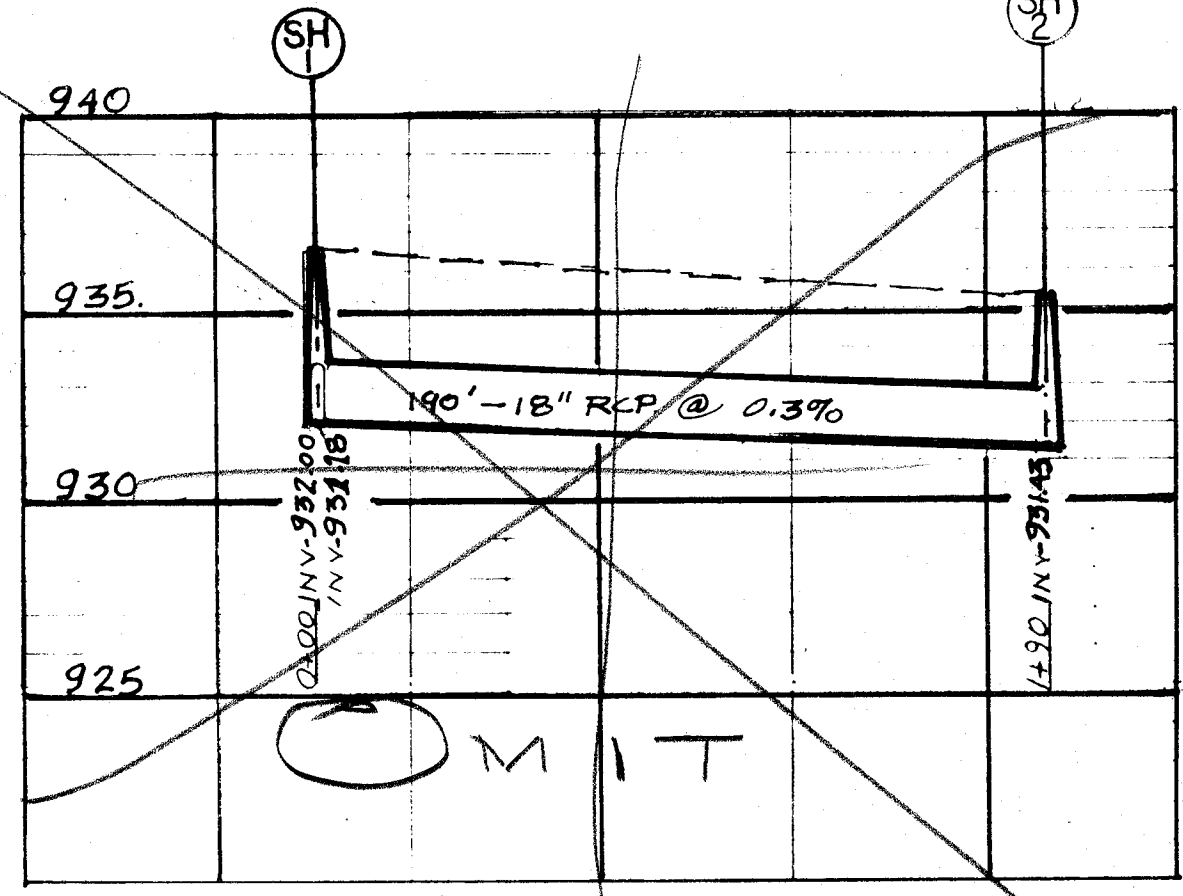


SCALE: 1"=50'

LEGEND

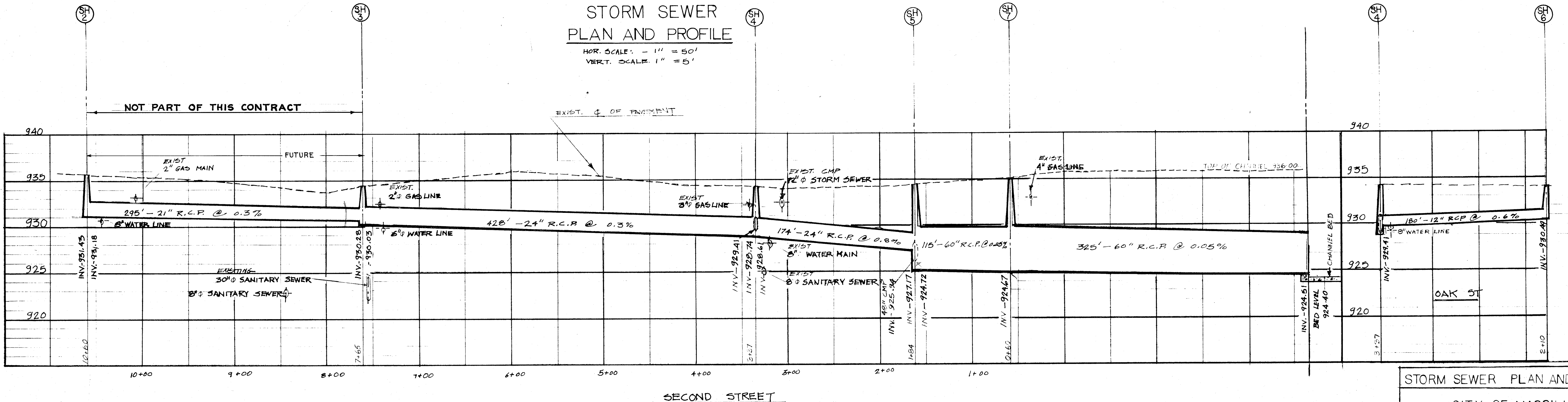
- PROPOSED SANITARY SEWER W/ MANHOLE
- EXISTING SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ MANHOLE
- EXISTING STORM SEWER W/ MANHOLE
- WATER LINE PROPOSED
- WATER LINE EXISTING
- GAS LINE EXISTING
- CATCH BASIN PROPOSED
- CATCH BASIN EXISTING

NOTE: ALL STORM SEWER PIPES SHALL BE ASTM C-76 CLASS III WITH CLASS B JOINTS.



STORM SEWER
PLAN AND PROFILE

HOR. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'



STORM SEWER PLAN AND PROFILE

CITY OF MASSILLON
LOWRY - PRICE
NEIGHBORHOOD DEVELOPMENT PROGRAM
URBAN RENEWAL AREA OHIO PROJECT A-15
NOV 1972
REV. NO. NATURE OF REVISION
FILE NO. P-297 ACC. NO. 2611

GENERAL NOTES:

SEE DETAIL SHEETS FOR PAVEMENT & SIDEWALK CONSTRUCTION DETAILS & INSTRUCTIONS - SHEETS 1&2
SEE DRAINAGE DWG'S & DRAINAGE DETAIL SHEETS FOR MANHOLES, GUTTER INLETS & CATCH BASIN CONSTRUCTION DETAILS - SHEETS 4,5,8,9
CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION

SECOND ST. 66' R/W

STREET IMPROVEMENT PLAN AND PROFILE

HOR. SCALE: 1" = 20' VERT. SCALE: 1" = 5'

LEGEND

- PROPOSED FINISH GRADE ELEV. - (934.74)
- EXISTING GRADE ELEV.
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER "
- EXISTING CATCH BASIN OR GUTTER INLET
- PROPOSED CATCH BASIN OR GUTTER INLET
- DRAINAGE DIRECTION OF FLOW
- HIGH POINT
- AREA OF WEDGING OF NEW PAVEMENT TO EXISTING PAVEMENT

ARCHITECTS - ENGINEERS
1900 EUCLID AVE., CLEVELAND, OHIO 44115

MADISON - MADISON - INTERNATIONAL



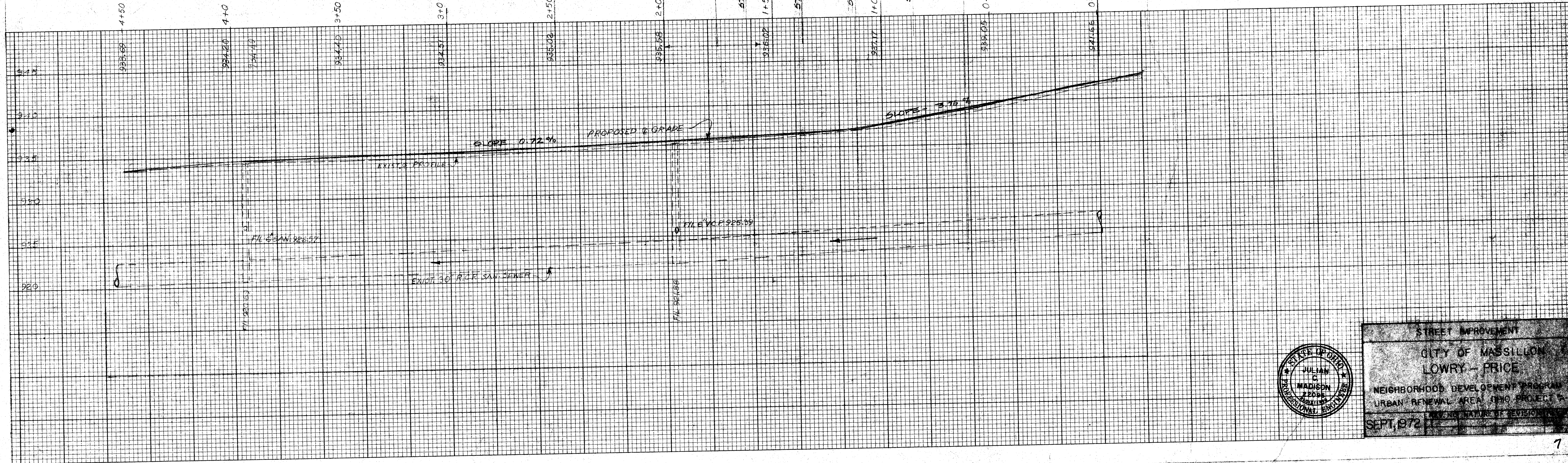
STREET IMPROVEMENT - 2ND ST.
CITY OF MASSILLON
LOWRY-PRICE

NEIGHBORHOOD DEVELOPMENT PROGRAM
URBAN RENEWAL AREA OHIO PROJECT A-15

NOV-1972

DATE	SCALE	JOB NO.	CHECKED	REVISION
12-10-72	1/4" = 1'-0"	11152	JLM	

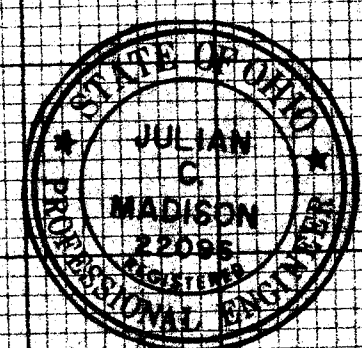
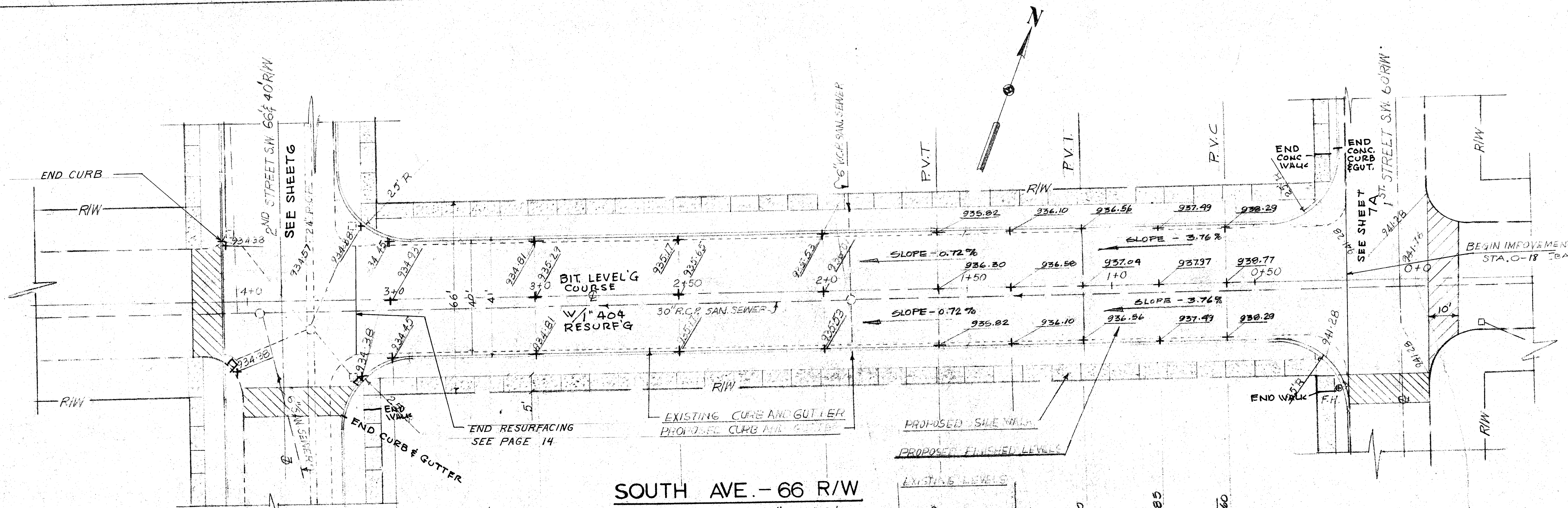
DRAWN BY
DATE
SCALE
JOB NO.
CHECKED
REVISION



SOUTH AVE. - 66 R/W

HOR. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'

EXISTING LEVELS
P.V.I. STA. 1+60
P.V.I. STA. 1+35
P.V.I. STA. 1+10
STA. 0+85
P.V.C. STA. 0+60
STA. 0+50
STA. 0+0



STREET IMPROVEMENT			
CITY OF MASSILLON			
LOWRY - PRICE			
NEIGHBORHOOD DEVELOPMENT PROGRAM			
URBAN RENEWAL AREA TWO PROJECT 7-1			
SEPT. 1972			

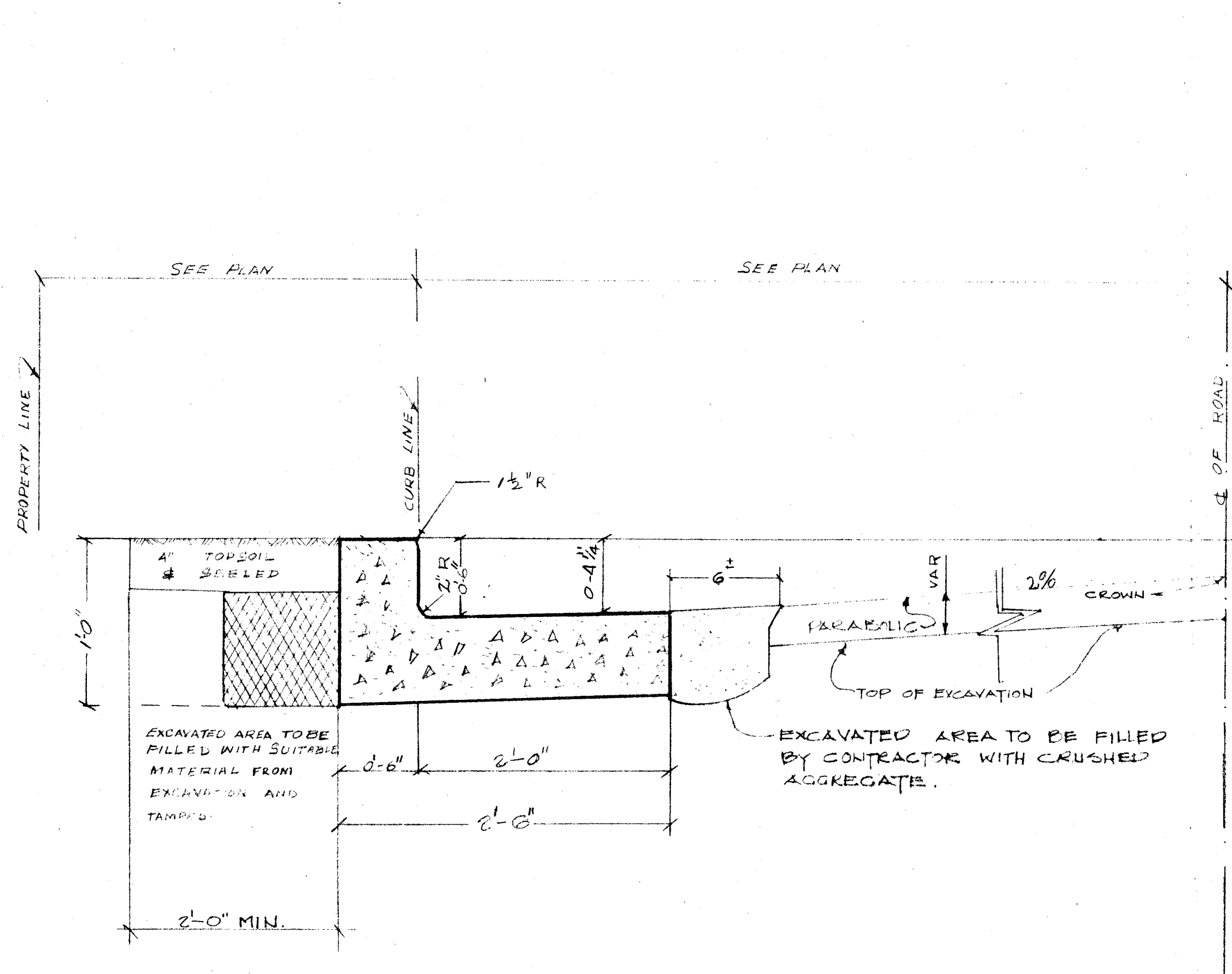
DESIGNED BY	DATE	SCALE	CHECKED	REVISION
JULIAN C. MADISON	9/19/72	1" = 20'		

MADISON - MADISON - INTERNATIONAL

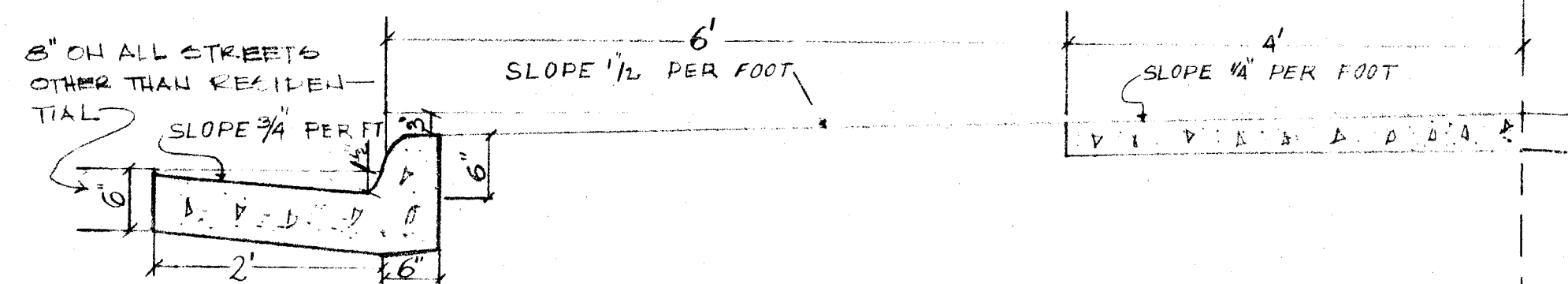
ARCHITECTS - ENGINEERS
1900 EUCLED AV. CLEVELAND, OHIO 44115

GENERAL NOTES

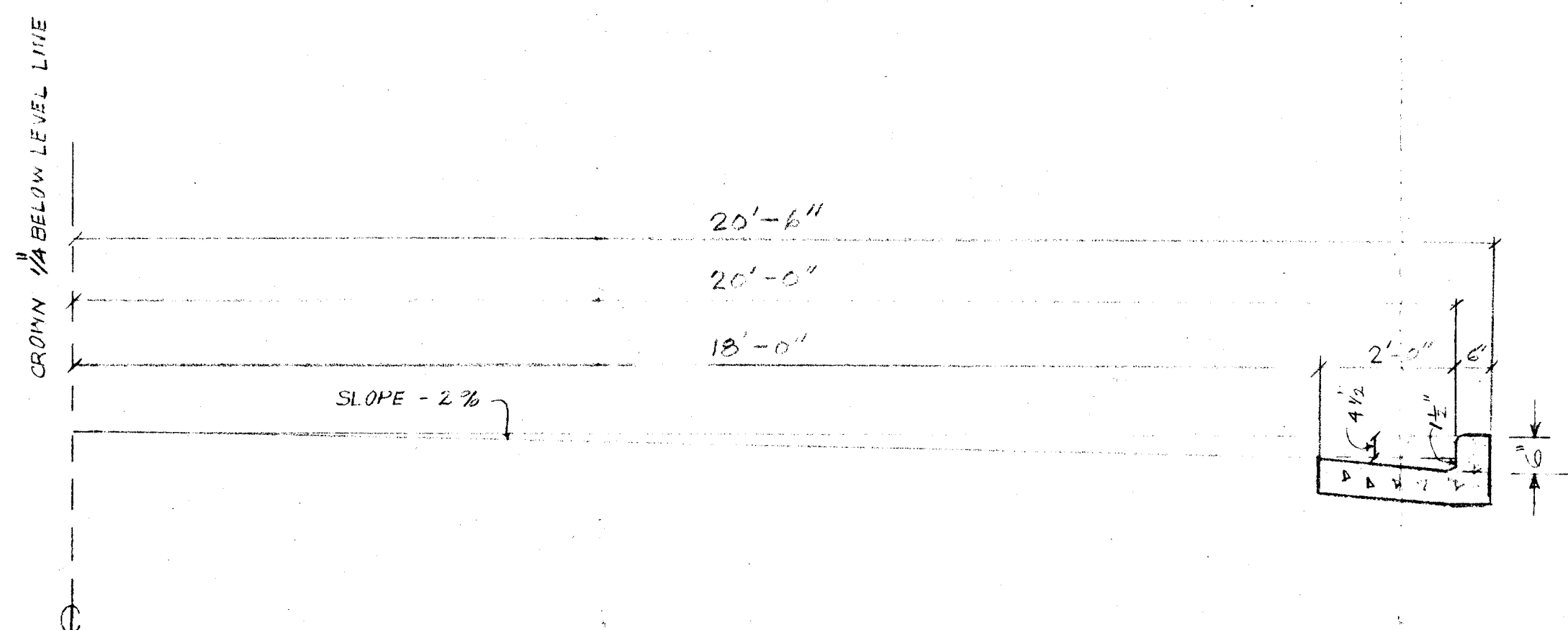
- Contractor shall check detail drawings for minimum grade and backfill requirements.
- All combination concrete curb and gutter to be massillon standard except where variations are to be extended or met. - See specification book, and plans.
- Excavation for combination concrete curb and gutter shall be included in the cost per lineal foot of said curb and gutter.
- All combination concrete curb and gutter to be constructed before excavation is started, when excavation does not exceed 1'-0" in depth.
- All catch basins and manholes to be adjusted to grade where necessary.
- All concrete to be 1:2:4-6 bag mix 28 day - 3000 P.S.I., compressive strength max. Slump to be 4".
- Contractor shall pay inspector (s) at the rate of time and one half of regular rate after 4:30 P.M. Monday thru Friday. Saturdays all day at time and one half.
- All materials used will be new - no salvaged material will be accepted except castings.
- If contractor excavates deeper than necessary for curb and gutter, contractor will furnish crusher run gravel and tamp before curb and gutter is constructed.
- All extra pay items will have the approval of the Board of Control before extra items are installed.
- Contractor to remove pipe under drives and return to property owner or dispose of, this pipe removal and disposal to be included in curb price.
- Contractor to back fill curb immediately after curb has been in place for 48 hours.
- Contractor shall notify engineer when he is in need of construction stakes and this office will comply within a period of 48 hours.
- Circle curb when radius is 17 1/2 ft. or less.
- Holes for downspouts to be included in cost per lin. ft. of curb and gutter.
- Contractor shall notify all utility companies before any work is begun. The City of Massillon is not responsible for any lost time due to utility relocation.



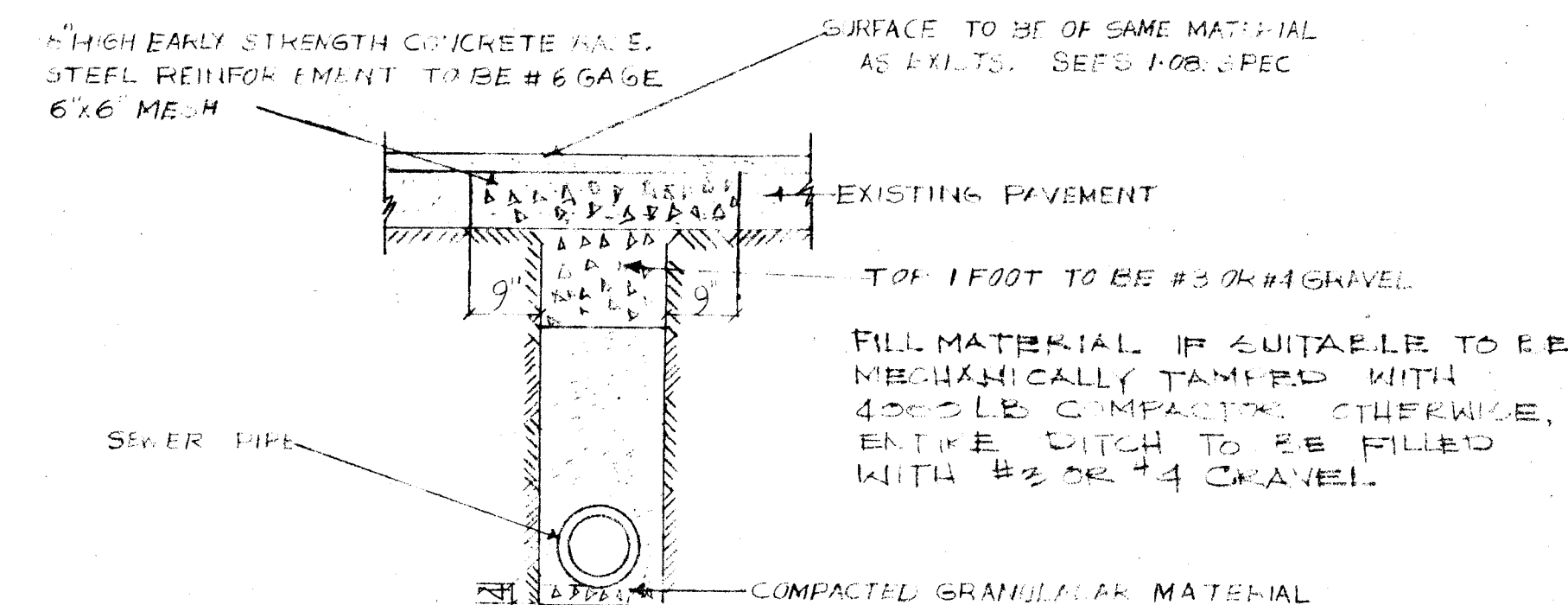
STANDARD CURB & GUTTER LINE



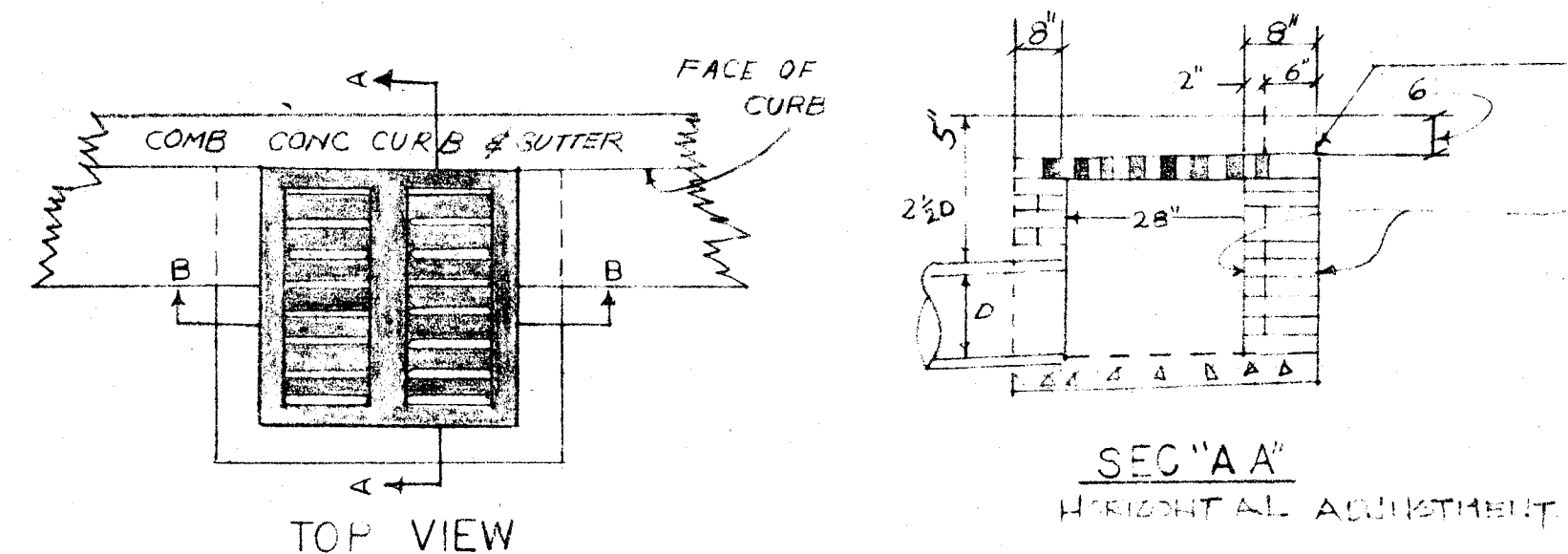
TYPICAL SECTION - WALK AND CURB
SCALE 3/4" = 1'



TYPICAL SECTION - 40' ROADWAY
SCALE 3/4" = 1'

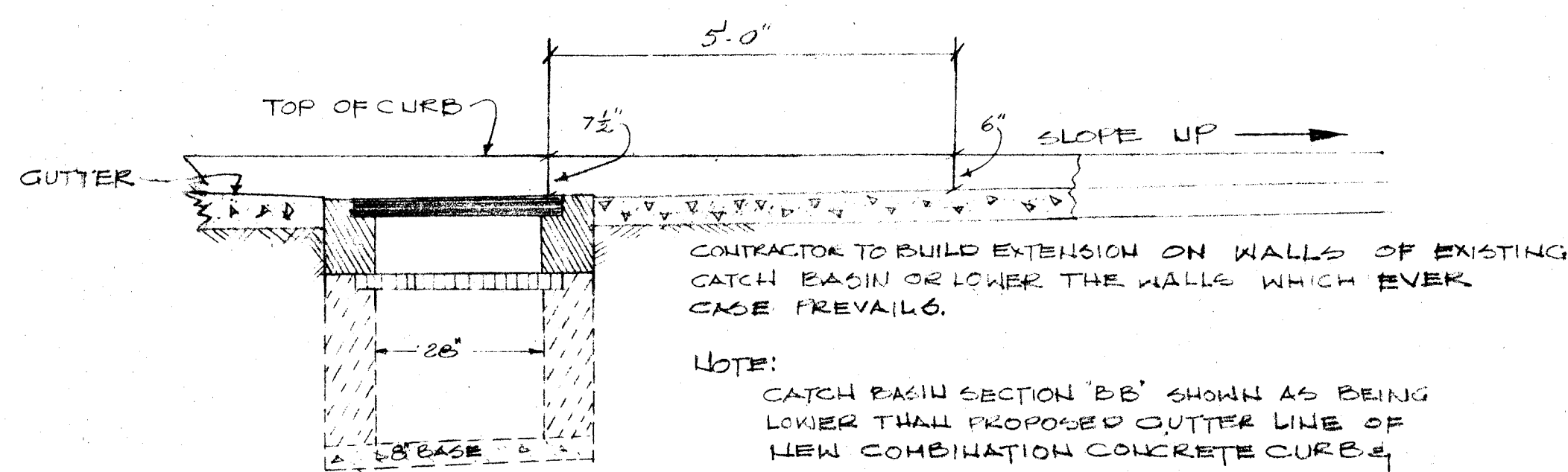


TYPICAL PAVEMENT REPLACEMENT



CONCRETE CURB & GUTTER.
4" THICK WALL MAY BE ADDED TO EITHER SIDE WITHOUT REBUILDING CATCH BASIN. - DECISION TO ADD 4" WALL AT ENGINEER'S DISCRETION.

SEC "A-A"
HORIZONTAL ADJUSTMENT

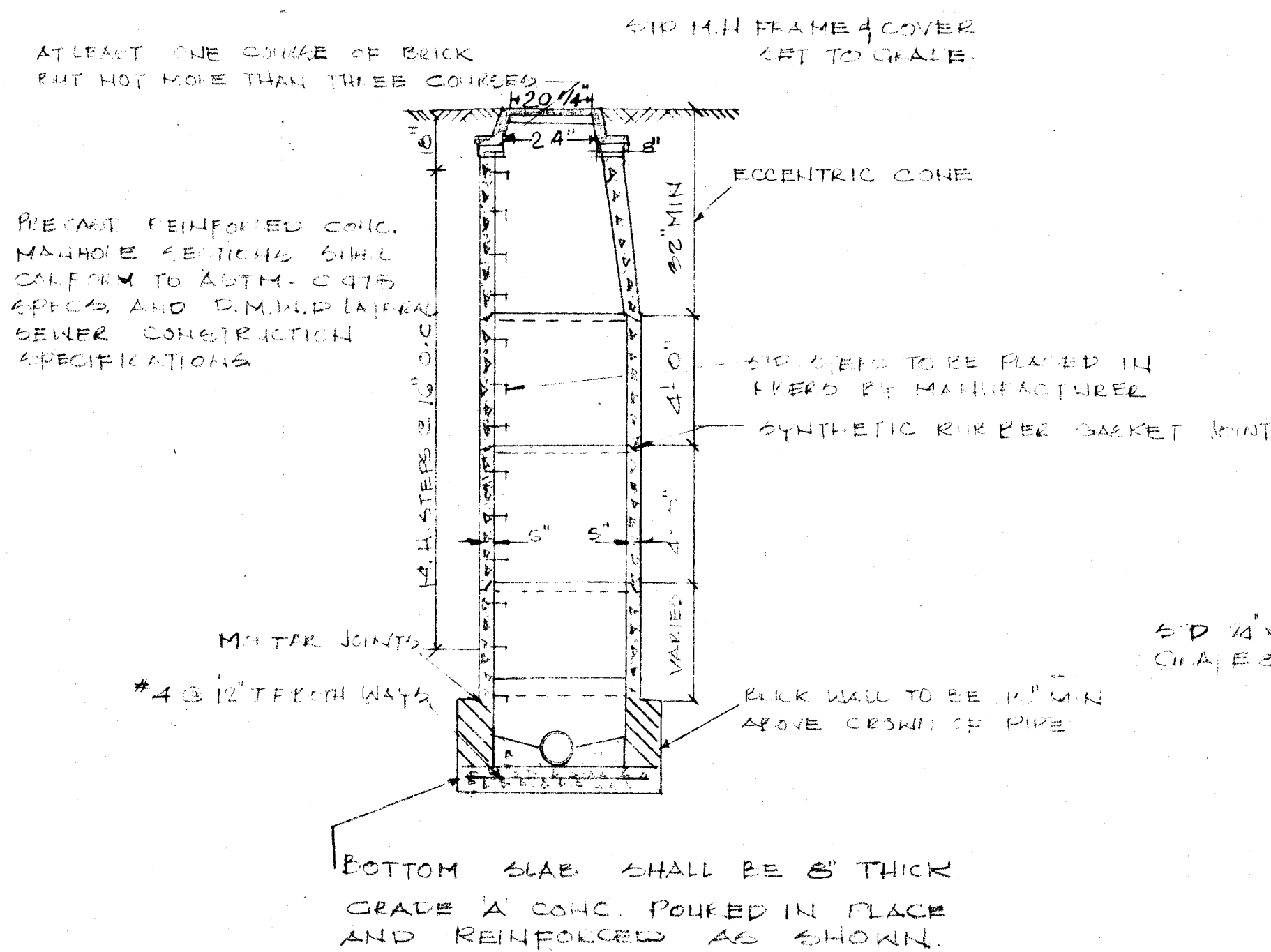


SECTION "B-B"
VERT. ADJUSTMENT

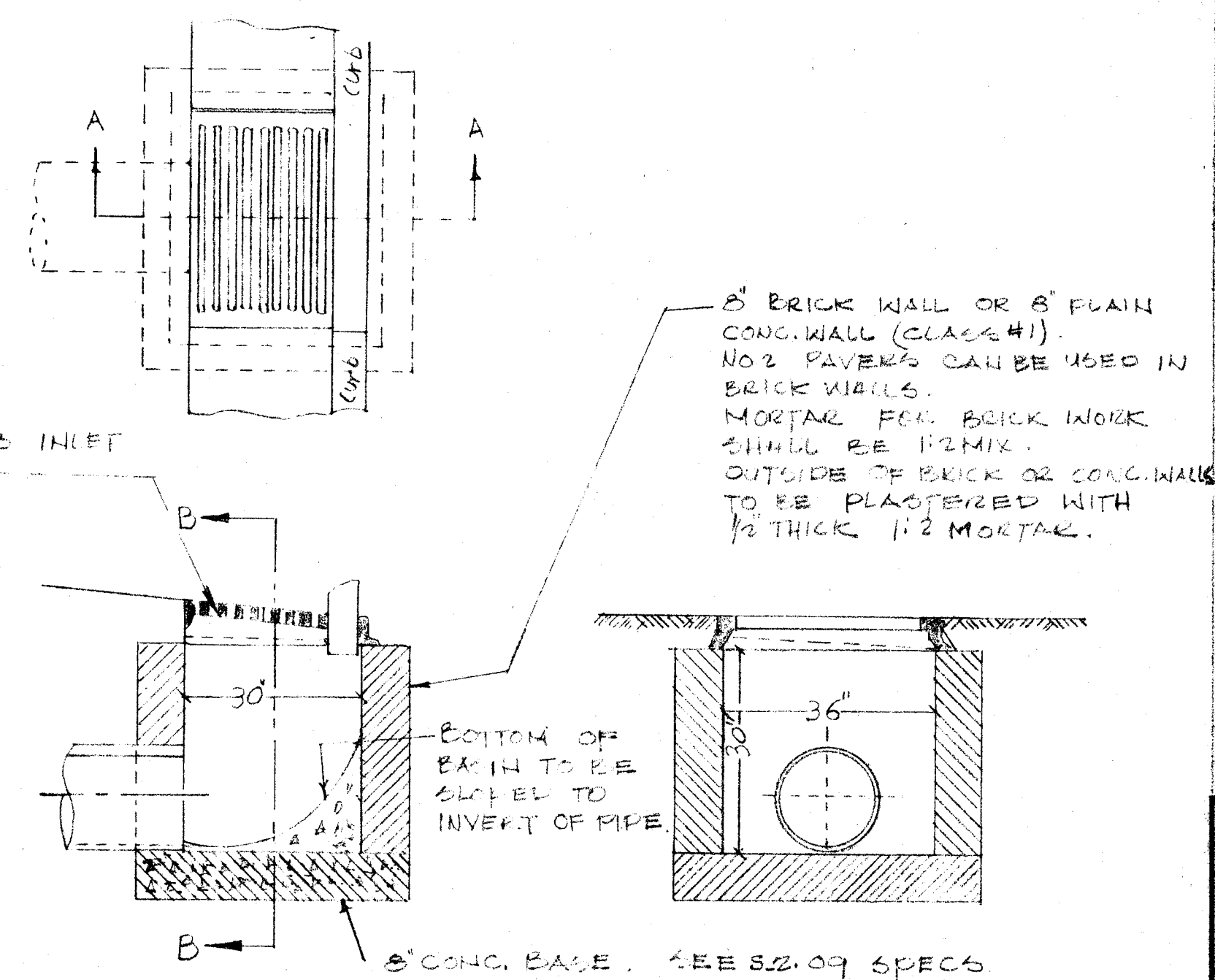
NOTE:
CATCH BASIN SECTION "B-B" SHOWN AS BEING LOWER THAN PROPOSED GUTTER LINE OF NEW COMBINATION CONCRETE CURB & GUTTER.

CONTRACTOR TO GET FINAL APPROVAL OF INSPECTOR BEFORE CASTING IS SET ON TOP OF BASIN.

ADJUSTMENT OF CATCH BASIN



PRECAST REINFORCED CONCRETE
MANHOLE



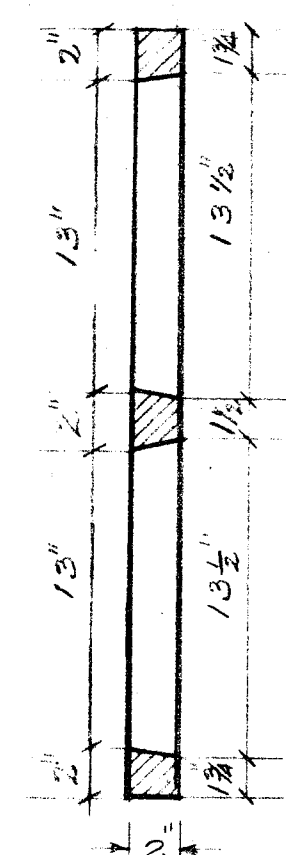
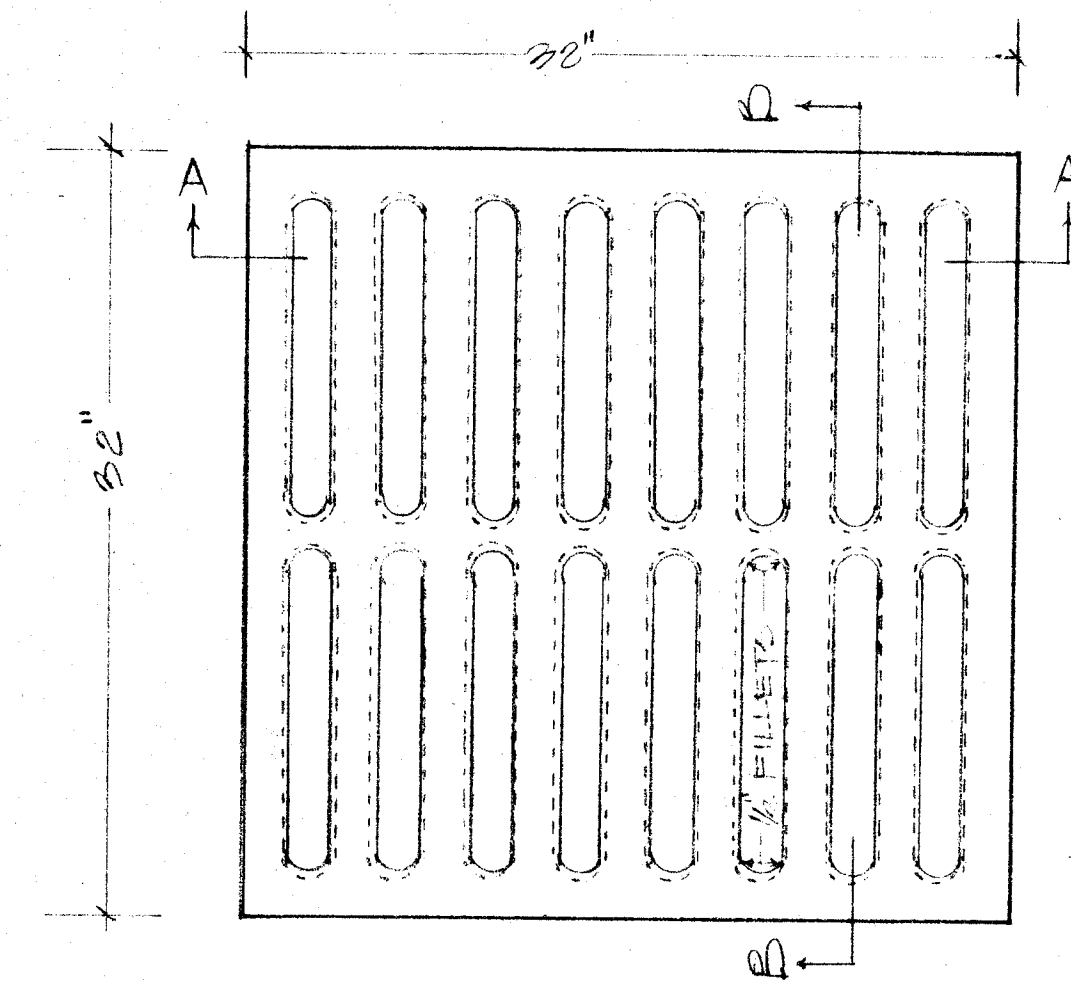
SECTION A-A
SECTION B-B
CATCH BASIN TYPE "A"

ARCHITECTS - ENGINEERS
1900 EUCLID AVE., CLEVELAND, OHIO 44115

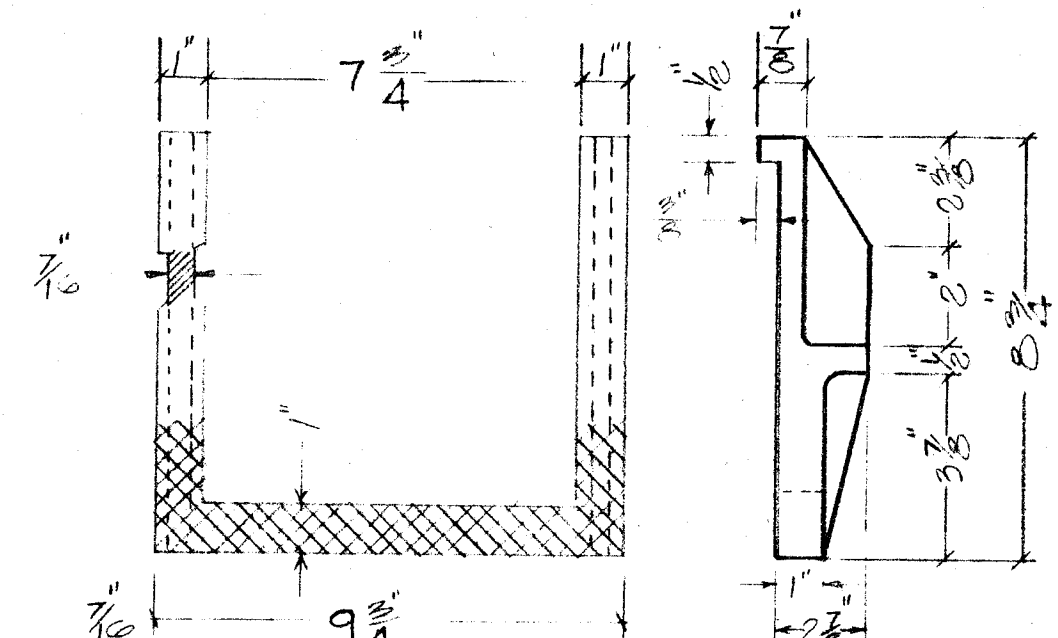
MADISON - MADISON - INTERNATIONAL



DATE	12-4-72	SCALE	AS NOTED
DRAWN BY	REV. SEC	CHECKED	1/24
DATE	12-4-72	SCALE	AS NOTED
DRAWN BY	REV. SEC	CHECKED	1/24
DATE	12-4-72	SCALE	AS NOTED
DRAWN BY	REV. SEC	CHECKED	1/24



SECTION B-B

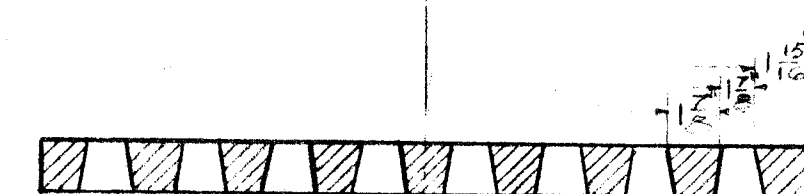


MANHOLE STEP

MATERIAL: CAST IRON
SCALE - 1/2" = 1'-0"

SCORED 3 TO AN INCH 1/16
DEEP EACH WAY. STEPS
TO BE PAINTED WITH
ASPHALT PAINT BEFORE
BEING USED.

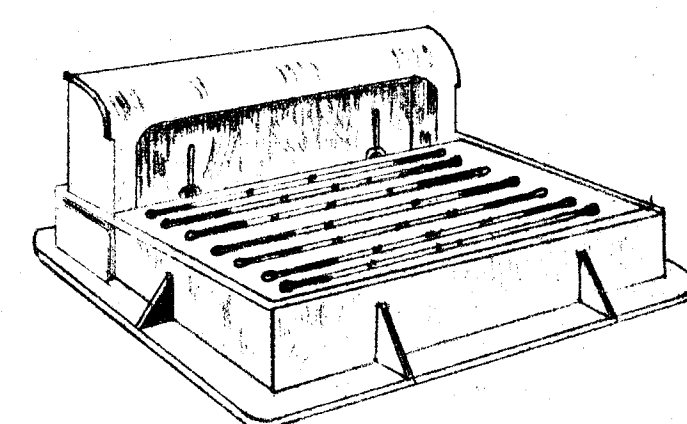
MANHOLE STEPS TO BE
INCLUDED IN BID PRICE
PER VERT. FOOT OF
MANHOLES.



SECTION A-A

TYPE B INLET

MATERIAL - CAST IRON.
WEIGHT - 200 LBS.
SCALE: 1/2" = 1'-0"

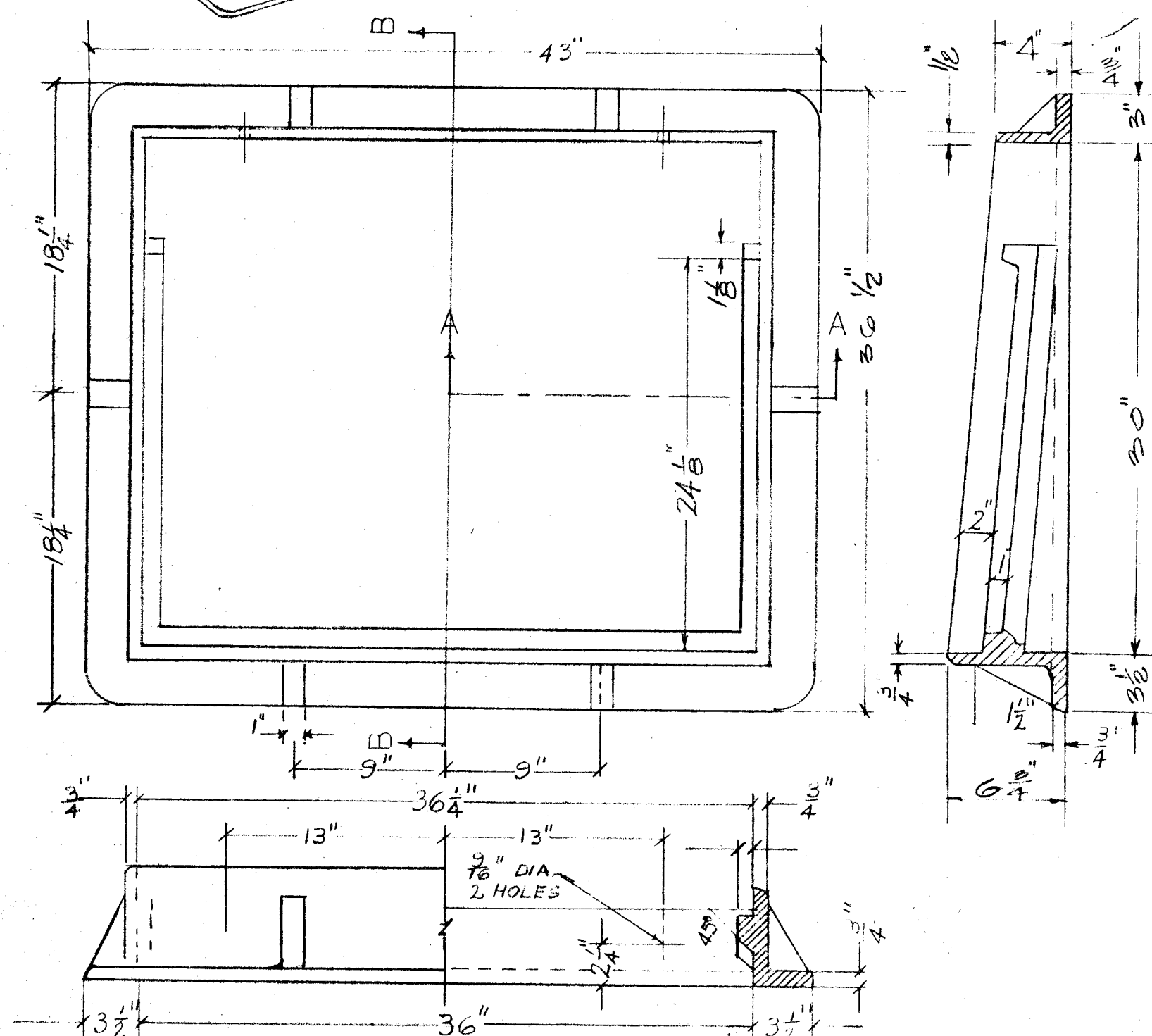


CURB INLET
ASSEMBLY

TOTAL WEIGHT - 650 LBS.
NEENAH R-2298 OR EQUAL

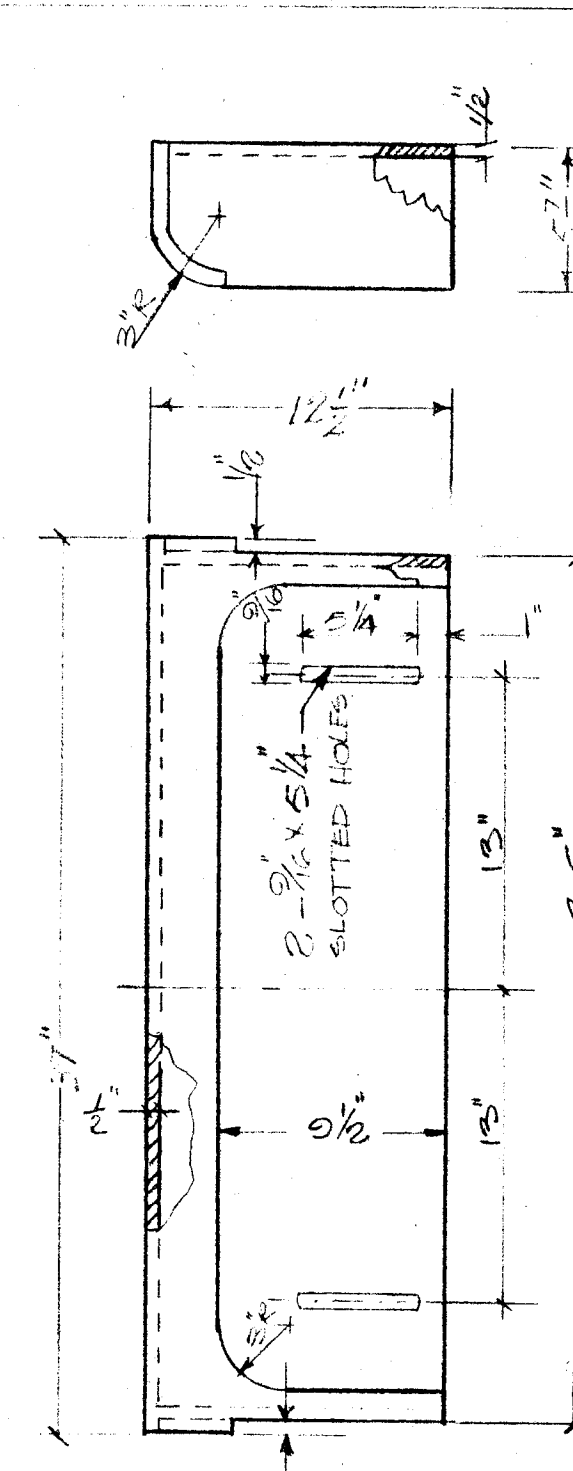
CURB INLET GRATE

MATERIAL - CAST IRON
SCALE - 1/2" = 1'-0"



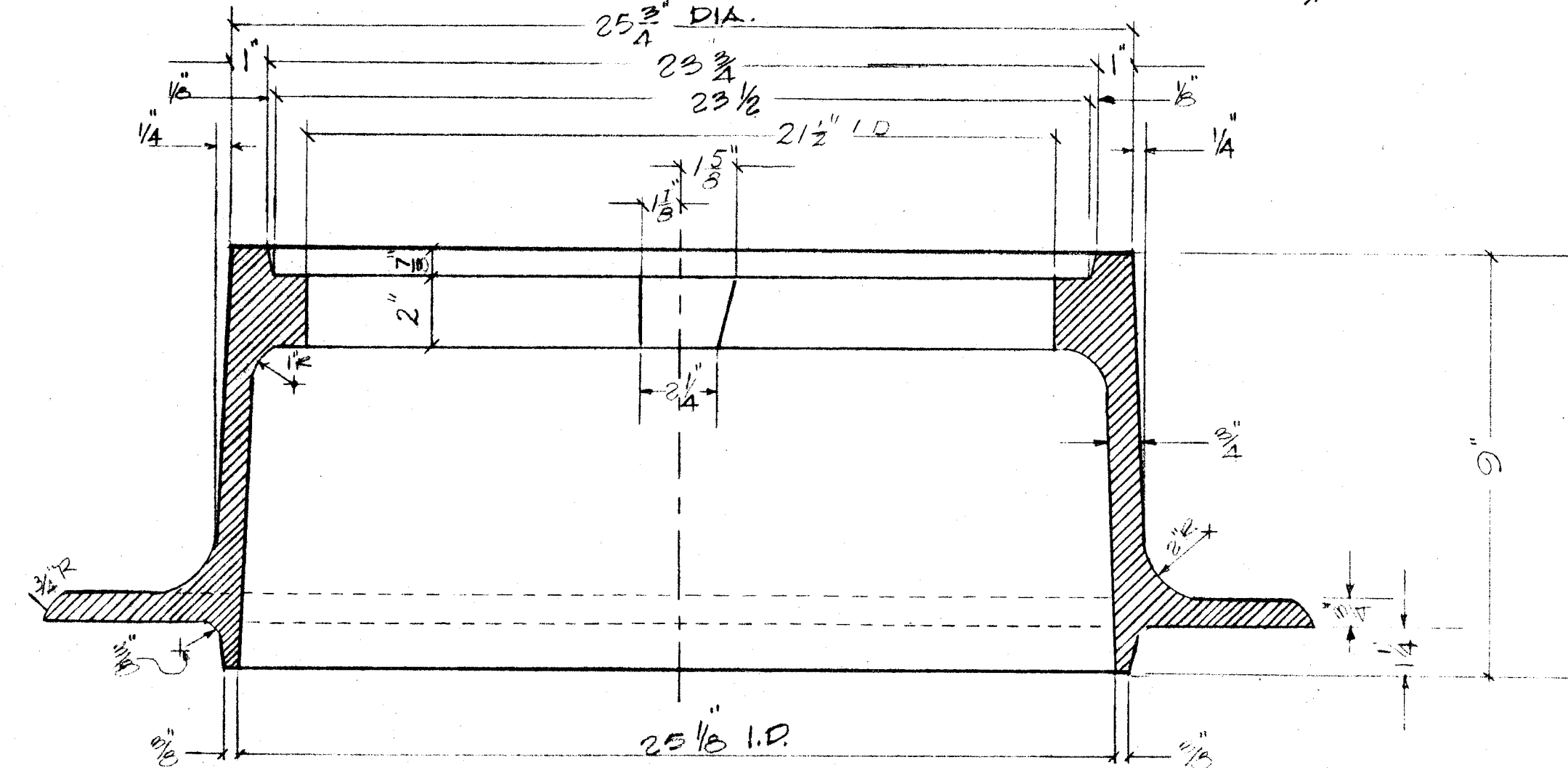
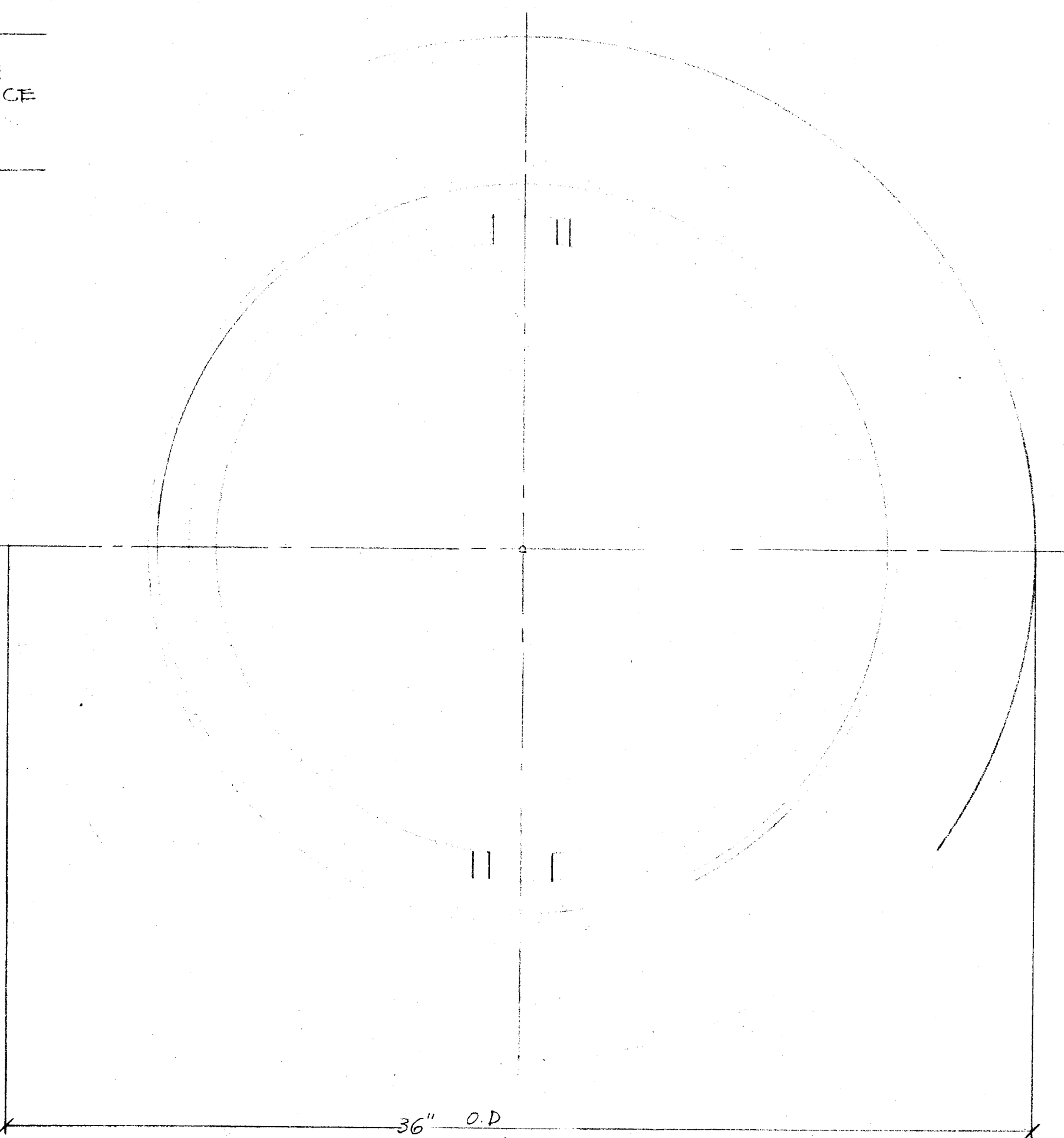
CURB INLET FRAME

MATERIAL - CAST IRON
SCALE - 1/2" = 1'-0"



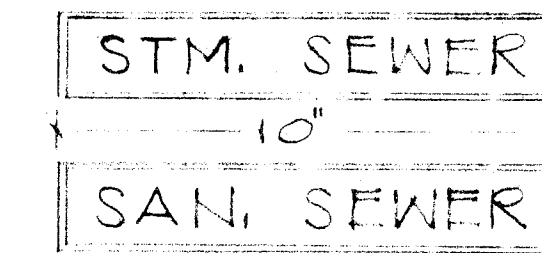
CURB INLET BOX

MATERIAL - CAST IRON
SCALE - 1/2" = 1'-0"



MANHOLE FRAME

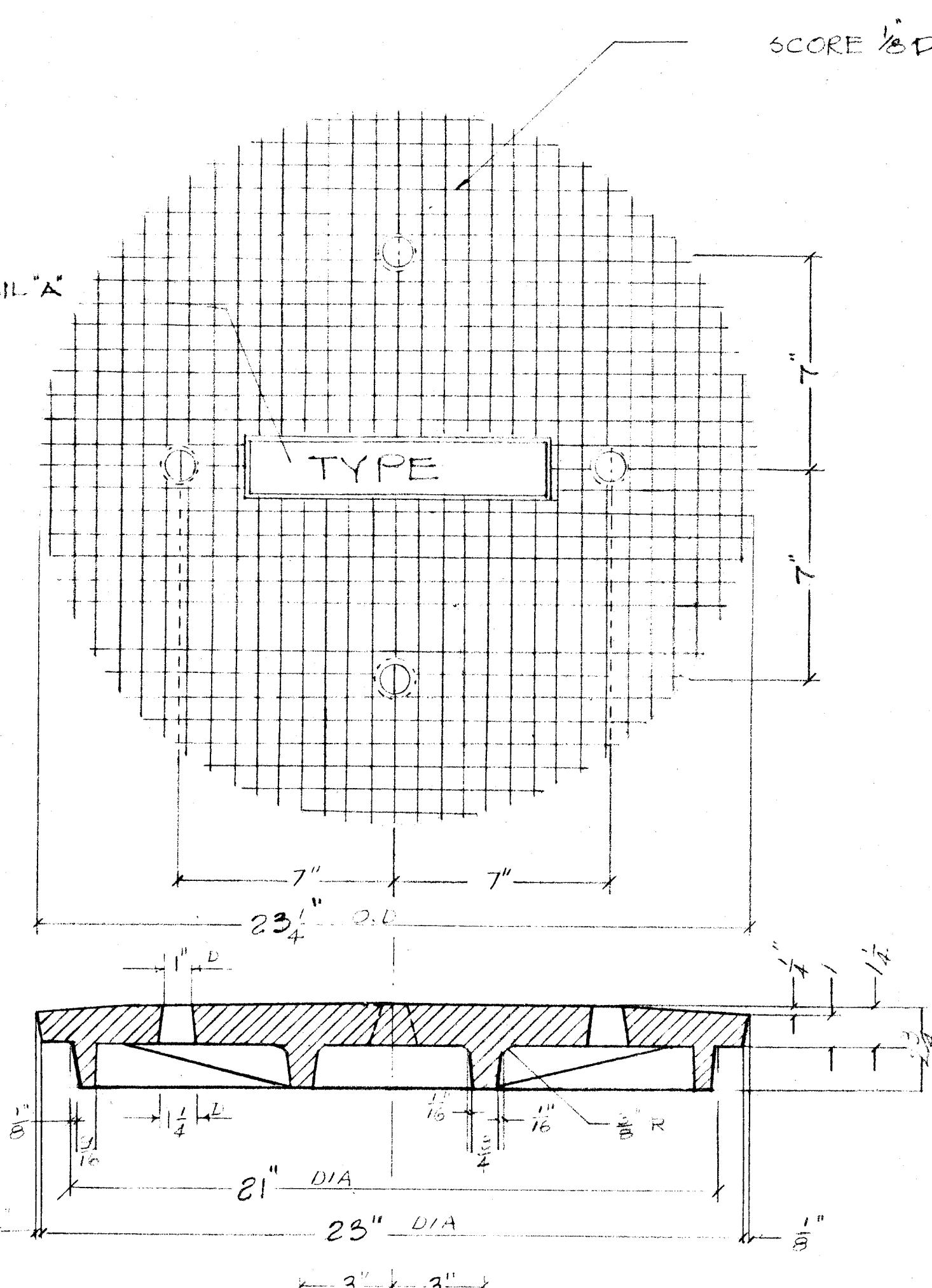
MATERIAL - CAST IRON
WEIGHT - 345 LBS.
SCALE - 1/2" = 1'-0"



SANITARY & STORM COVERS
& FRAMES IDENTICAL EXCEPT
FOR ABOVE LETTERING ON
PLATE.

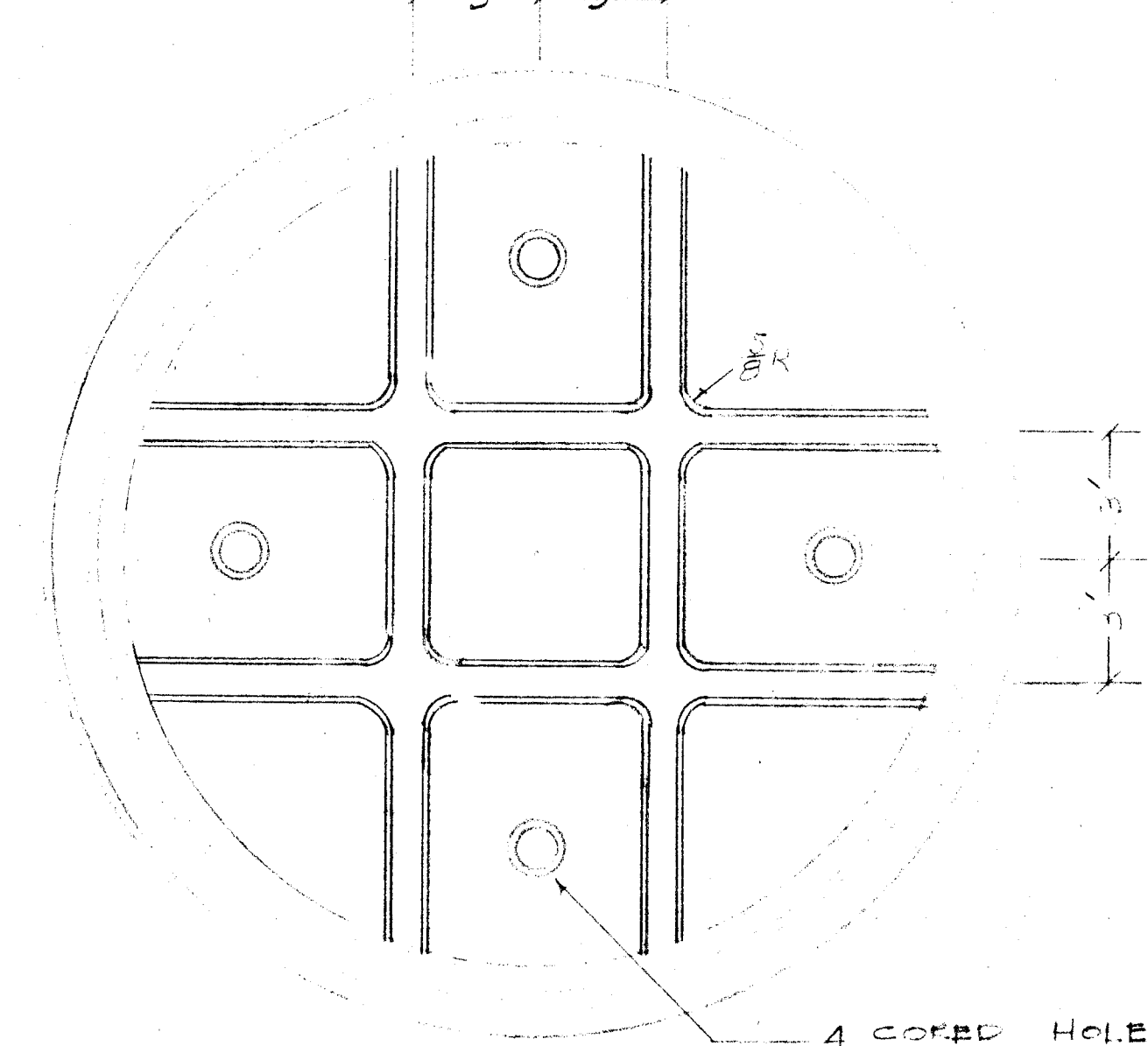
DETAIL 'A'

SEE DETAIL 'A'



MANHOLE COVER

MATERIAL - CAST IRON
WEIGHT - 124 LBS.
SCALE - 1/2" = 1'-0"

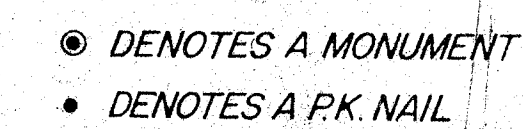


4 CORED HOLES.

- NOTE:
1. BEARING PARTS OF FRAMED COVER SHALL BE MACHINED TO PROVIDE A FIRM & EVEN SEAT FOR ANY POSITION OF THE COVER.
 2. MATERIAL FOR FRAME & COVER TO BE OF CAST IRON OF GOOD QUALITY - A.S.T.M. CLASS 20 OR BETTER.
 3. CASTING TO BE FREE FROM BLOWHOLES OR OTHER DEFECTS.
 4. THEY SHALL BE CLEANED OF ALL SCALE, GREASE AND RECEIVE (2) TWO COATS OF BITUMINOUS PAINT.

SCALE 1"=50

SEPT., 1972



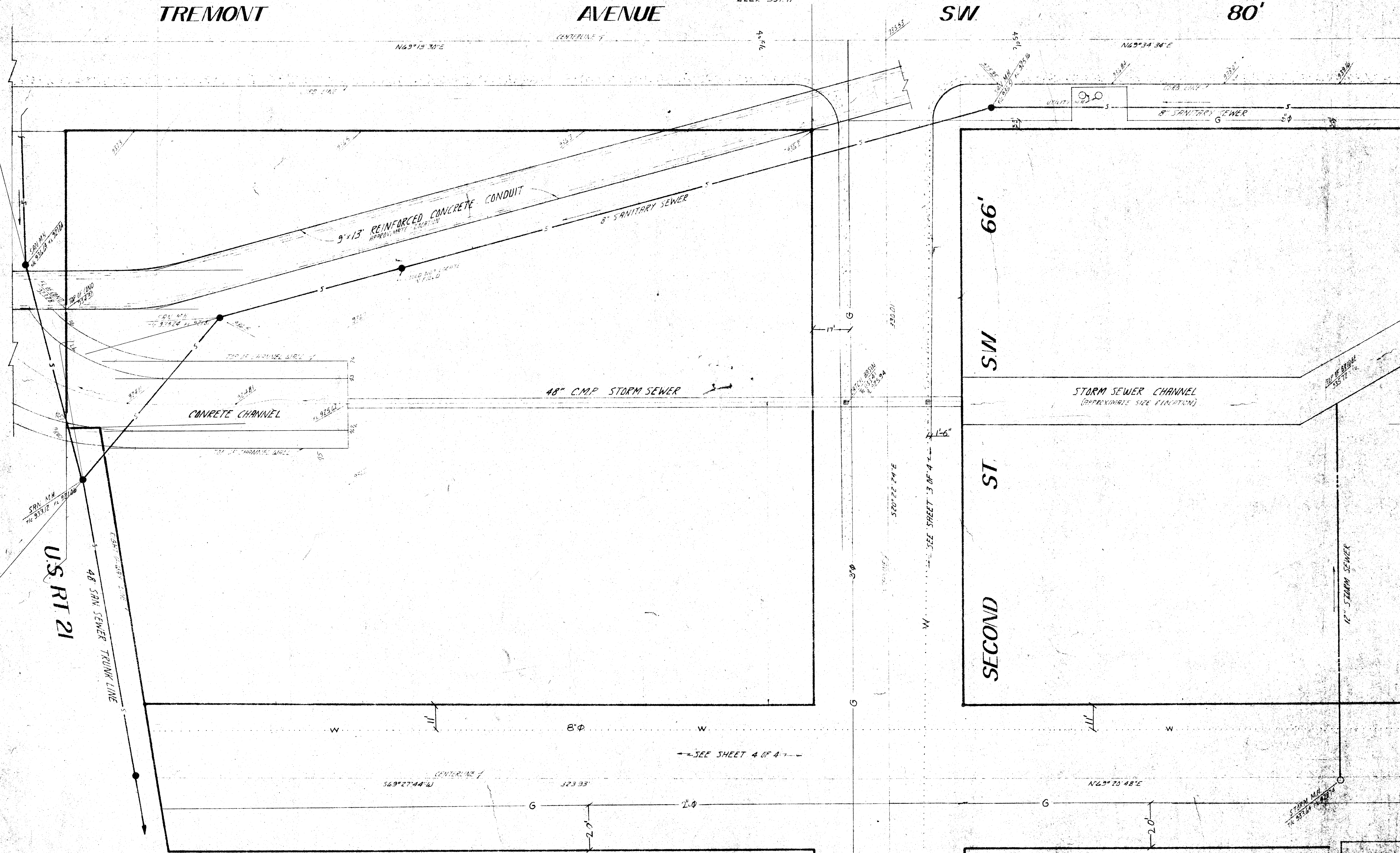
TREMONT

AVENUE

S.W.

80'

BENCH MARK
TOP OF HYDRANT @ N.W. CORNER
SECOND STREET & TREMONT AVENUE
ELEV. 937.41



OAK

AVENUE

S.W.

66'

BENCH MARK
TOP OF HYDRANT @ S.W. CORNER
SECOND STREET & OAK AVENUE
ELEV. 935.28

PLAN and PROFILE

CITY OF MASSILLON
LOWRY PRICE
NEIGHBORHOOD DEVELOPMENT PROGRAM
URBAN RENEWAL AREA - OHIO PROJECT RARE

SHISLER, GALLIGHER & ASSOCIATES
REGISTERED ENGINEERS & ARCHITECTS

SCALE 1"=20' SEPT. 1972 SHEET 11 OF 11

MATCH LINE "H" STA 6+00

MATCH LINE "B" STA 12+00

TREN

MATCH LINE "A" STA 6+00

FIRST ST. S.W. - 58' R/W

FIRST ST SW - 58' R/W

BENCH MARK
TOP OF HYDRANT @ NW CORNER
FIRST STREET & OAK AVENUE
ELEV 336.71

BENCH MARK
TOP OF HYDRANT @ SW CORNER
FIRST STREET & SOUTH AVENUE
ELEV 943.87

SPRINTARY M.H.
ELEV 943.95

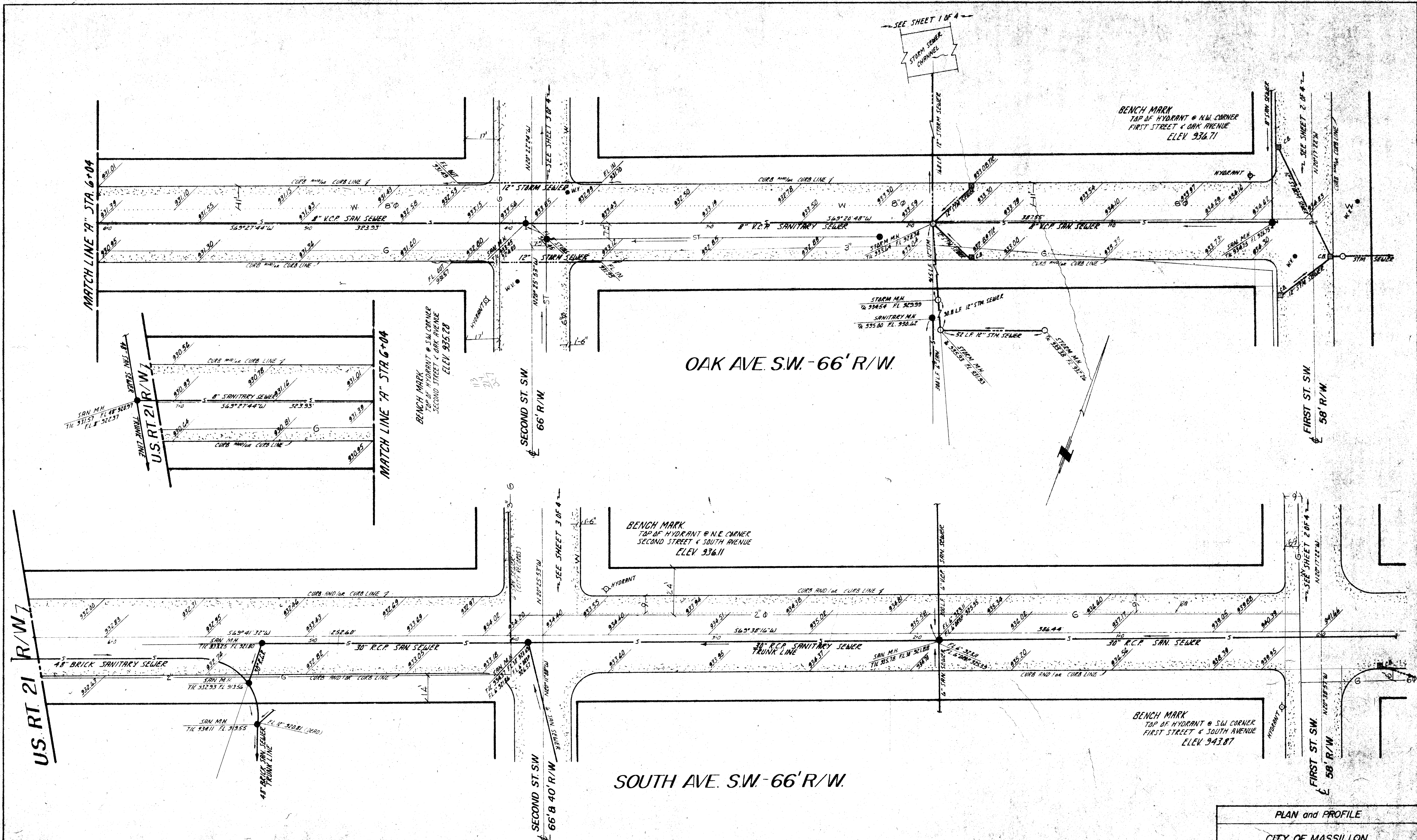
SOUTH AVE SW
66' R/W

PLAN and PROFILE

CITY OF MASSILLON
LOWRY - PRICE
NEIGHBORHOOD DEVELOPMENT PROGRAM
URBAN RENEWAL AREA OHIO PROJECT "A-15"

SHISLER, GALLIGHER & ASSOCIATES
REGISTERED ENGINEERS & SURVEYORS

SCALE 1"=20' PT. 1972 SHEET 2 of 2



MATCH LINE "A" STA 6+00

BENCH MARK
TOP OF HYDRANT @ SW CORNER
SECOND STREET & OAK AVENUE
ELEV 935.28

OAK AVE SW
66' R/W

SECOND ST. SW - 66' R/W.

TREMONT AVE. SW
80' R/W

PTI WBC RAILROAD

LAUREL AVE S.W.
40' R/W

SECOND ST. S.W.

66' R/W NORTH OF SOUTH AVE.
40' R/W SOUTH OF SOUTH AVE.

SOUTH AVE S.W.
66' R/W

MATCH LINE "A" STA 6+00

BENCH MARK
TOP OF HYDRANT @ NE CORNER
SECOND STREET & SOUTH AVENUE
ELEV 936.11

LEGEND

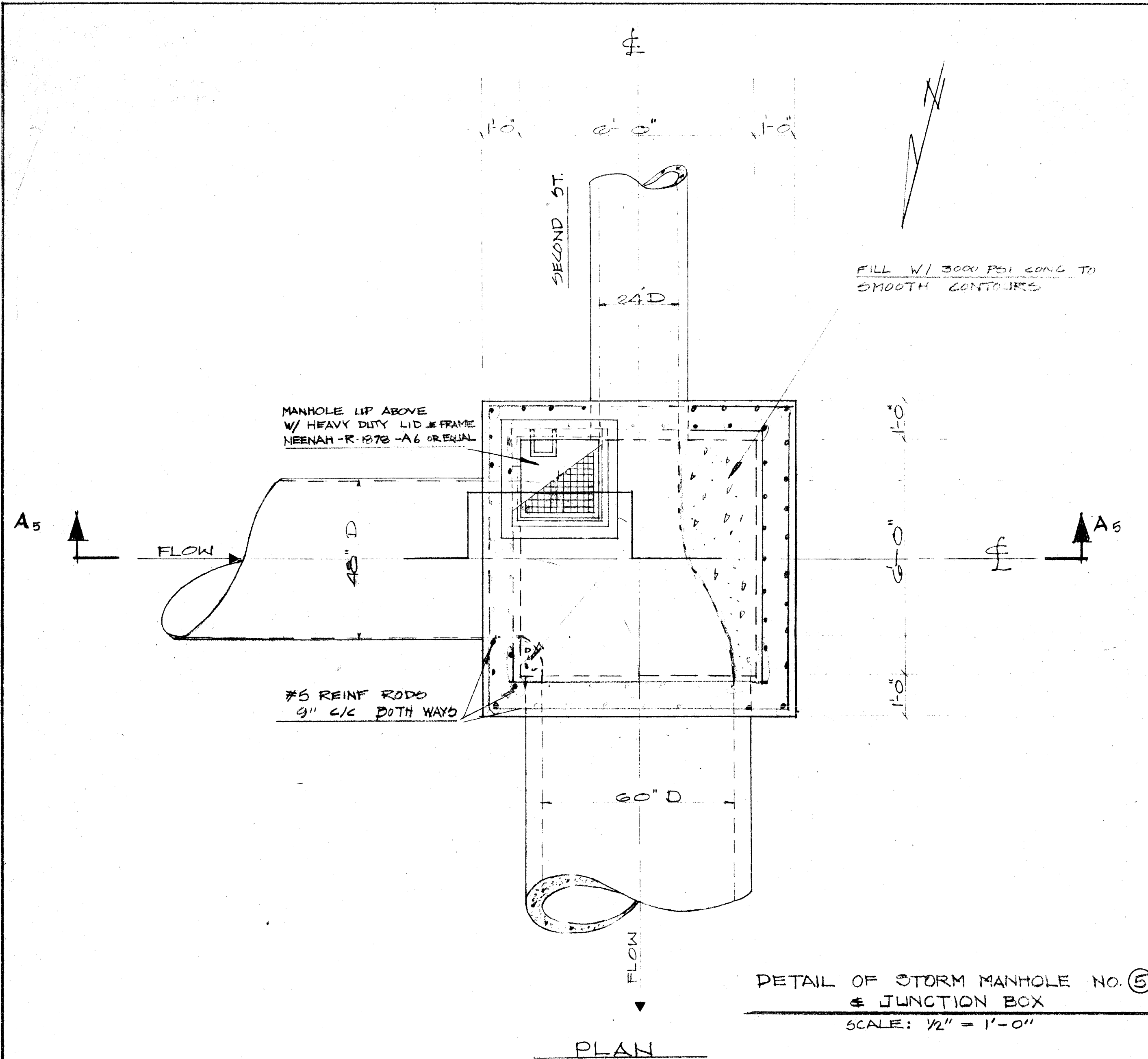
- G— GAS LINE EXISTING
- ST— PROPOSED STORM SEWER
- W--- WATER LINE EXISTING
- MAN HOLE PROPOSED

PLAN and PROFILE

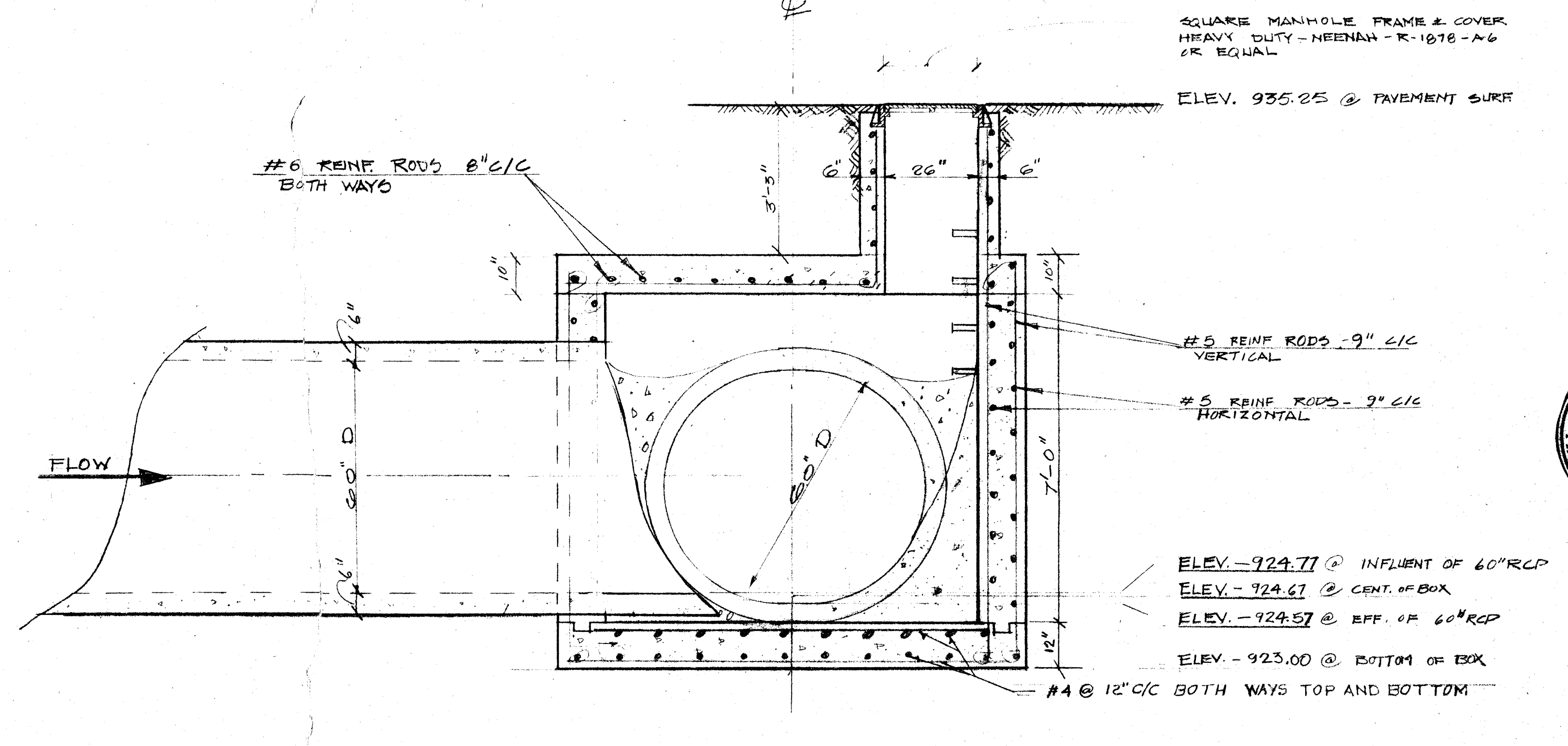
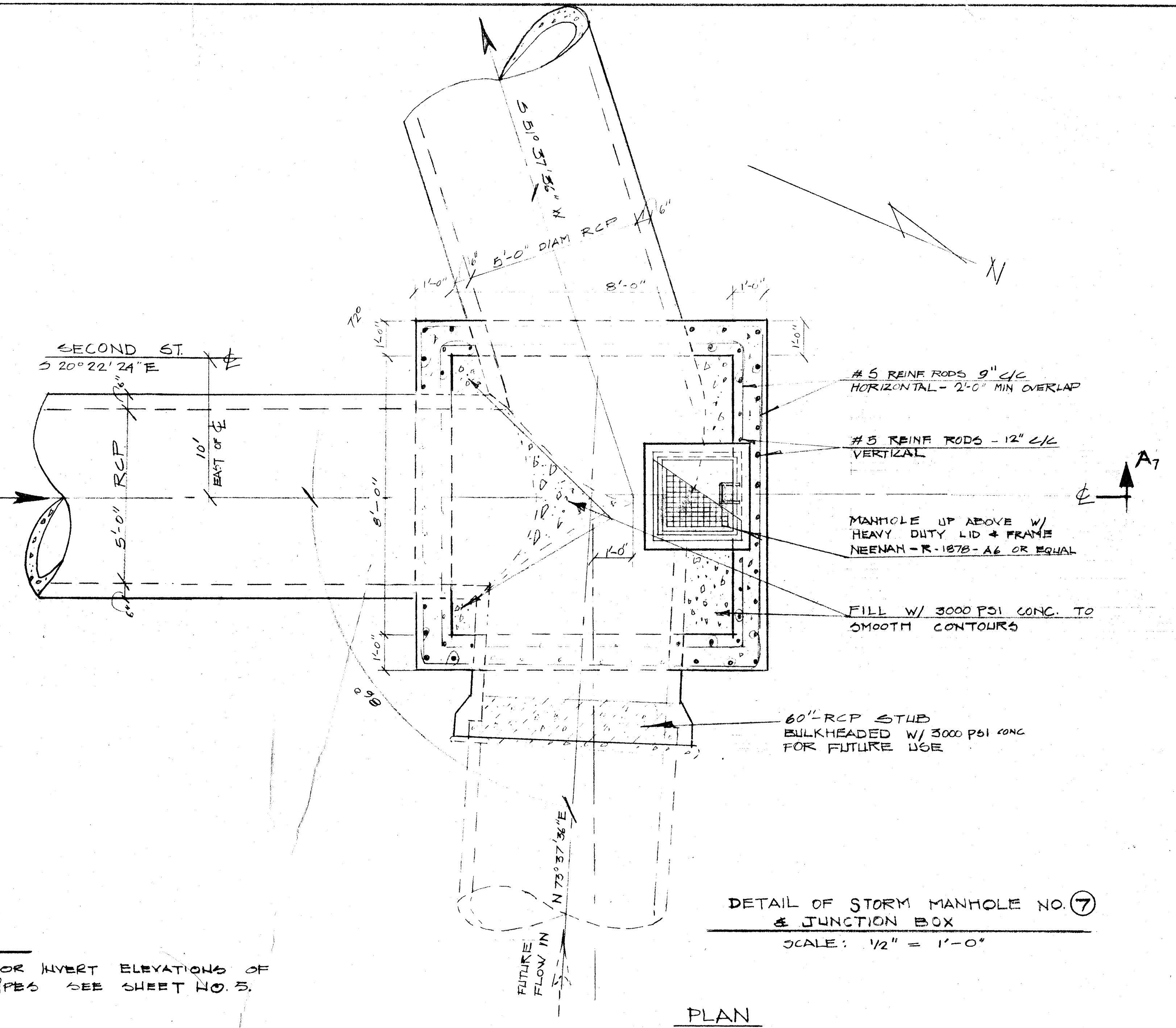
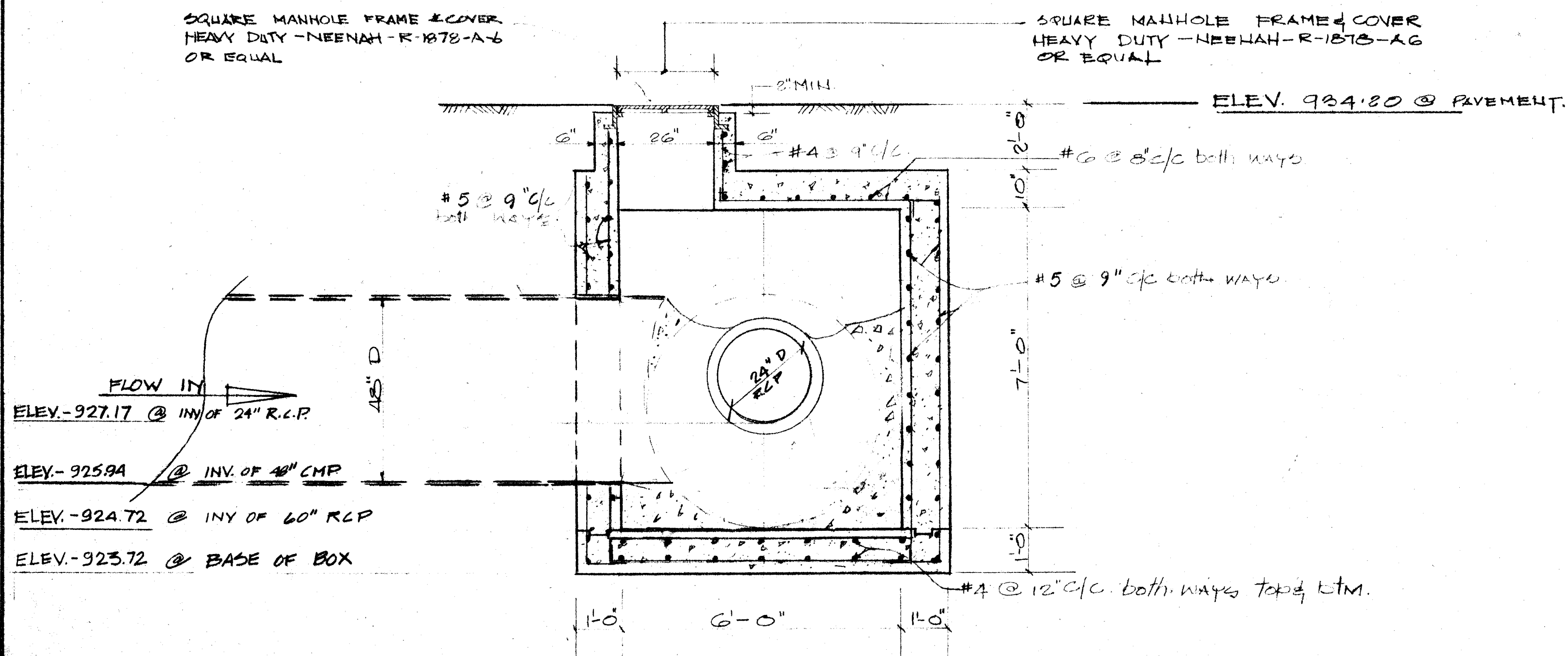
CITY OF MASSILLON
LOWRY - PRICE
NEIGHBORHOOD DEVELOPMENT PROGRAM
URBAN RENEWAL AREA OHIO PROJECT #1-15

SHISLER, GALLIGHER & ASSOCIATES
REGISTERED ENGINEERS & SURVEYORS

SCALE 1"=20' SEPT. 1972 SHEET 3 OF 3



NOTE:
1. FOR INVERT ELEVATIONS OF
PIPES SEE SHEET NO. 5.



ARCHITECTS - ENGINEERS
1900 EUCALID AVE., CLEVELAND, OHIO 44115

MADISON - MADISON - INTERNATIONAL

CONSTRUCTION DETAILS
OF
STORM MANHOLES AND
JUNCTION BOXES NOS.
5 AND 7

DATE
12/30/79
1/2" = 1' SCALE
SHEET NO.
15