CITY OF

ALBUQUERQUE-NEW MEXICO

STORM SEWER PROJECT

OCTOBER 1950

CITY MANAGER

CHAS. E. WELLS

CITY ENGINEER

E.O. BETTS

CHAIRMAN

ERNEST W. EVERLY

COMMISSIONERS

J.A. GILBERT

DON WILSON

PAUL BATSEL

CLYDE TINGLEY

CONSULTING ENGINEERS

HERKENHOFF AND TURNEY

SANTA FE

EDMUND ROSS

ALBUQUERQUE

HASIE AND GREEN

ALBUQUERQUE

INDEX SHEET

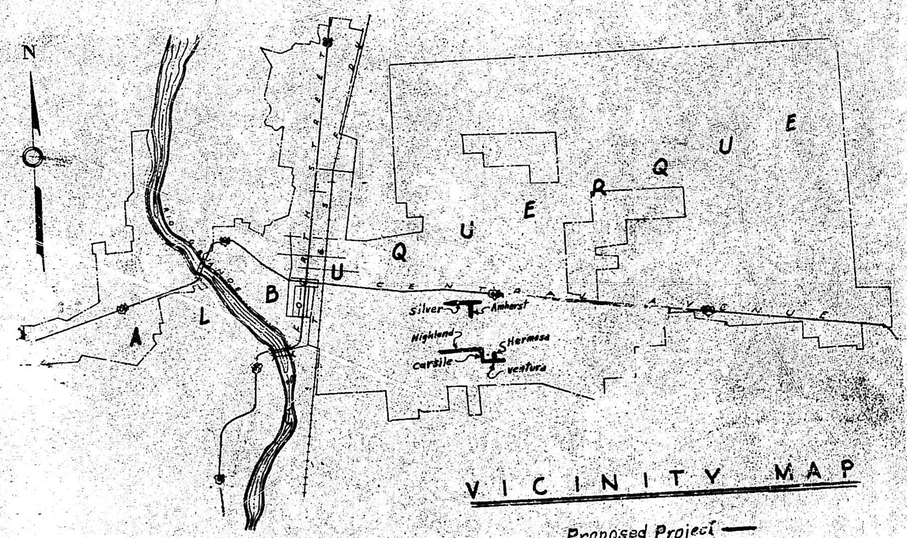
1. TITLE SHEET
2. PROPOSED STORM SEWERS
3. STANDARD CATCH BASINS, TYPES B&C C-I AND APPURTENANCES
4. STANDARD MANHOLE DESIGNS
5. TYPE A CURB INLET-STANDARD MANHOLE FRAME AND COVER
6. STANDARD METHOD OF REPAIRING CUTS IN PAVEMENT-ALSO-STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
7&8. STORM SEWER LINE-PLAN PROFILE

SHT 1

ESTIMATED PROJECT QUANTITIES

12" Storm Sewer Pipe Line Uncl. Dry Exc. 0'-6'	1, 991	L.F.
12" Storm Sewer Pipe Line Uncl. Dry. Exc. 6'-8'	150	L.F.
12" Storm Sewer Pipe Line Uncl. Dry. Exc. 8'-10'	100	L.F.
12" Storm Sewer Pipe Line Uncl. Dry. Exc. 10'-12'	59	L.F.
12" Storm Sewer Pipe Line Uncl. Dry. Exc. 12'-14'	159	L.F.
15" Storm Sewer Pipe Line Uncl. Dry. Exc. 0'-6'	660	L.F.
15" Storm Sewer Pipe Line Uncl. Dry Exc. 6'-8'	255	L.F.
15" Storm Sewer Pipe Line Uncl. Dry Exc. 8'-10'	60	L.F.
15" Storm Sewer Pipe Line Uncl. Dry Exc. 10'-12'	131	L.F.
18" Storm Sewer Pipe Line Uncl. Dry. Exc. 6'-8'	780	L.F.
18" Storm Sewer Pipe Line Uncl. Dry Exc. 8'-10'	282	L.F.
18" Storm Sewer Pipe Line Uncl. Dry. Exc. 10'-12'	428	L.F.
18" Storm Sewer Pipe Line Uncl. Dry. Exc. 12'-14'	356	L.F.
18" Storm Sewer Pipe Line Uncl. Dry. Exc. 14'-16'	130	L.F.
21" Storm Sewer Pipe Line Uncl. Dry. Exc. 0'-6'	278	L.F.
21" Storm Sewer Pipe Line Uncl. Dry Exc. 6'-8'	926	L.F.
21" Storm Sewer Pipe Line Uncl. Dry. Exc. 8'-10'	592	L.F.
21" Storm Sewer Pipe Line Uncl. Dry Exc. 10'-12'	323	L.F.
21" Storm Sewer Pipe Line Uncl. Dry Exc. 12'-14'	65	L.F.
21" Storm Sewer Pipe Line Uncl. Dry Exc. 14'-16'	51	L.F.
24" Storm Sewer Pipe Line Uncl. Dry Exc. 0'-6'	319	L.F.
24" Storm Sewer Pipe Line Uncl. Dry Exc. 6'-8'	250	L.F.
24" Storm Sewer Pipe Line Uncl. Dry. Exc. 8'-10'	115	L.F.
24" Storm Sewer Pipe Line Uncl. Dry Exc. 10'-12'	66	L.F.
27" Storm Sewer Pipe Line Uncl. Dry Exc. 6'-8'	370	L.F.

Manholes 'A' Type A 0'-6'	19	Each
Manhole Additional Height 'A' Type A	64	V.F.
Single Grate Type C Inlet and Catch Basin	25	Each
Curb Inlet (Detail F-134)	10	Each
Remove Existing Conc. Curb & Gutter	245	L.F.
Constructing Conc. Curb and Gutter	298	L.F.
Cutting Flexible Type Pavement	3,600	L.F.
Connecting to Existing Manhole	4	Each



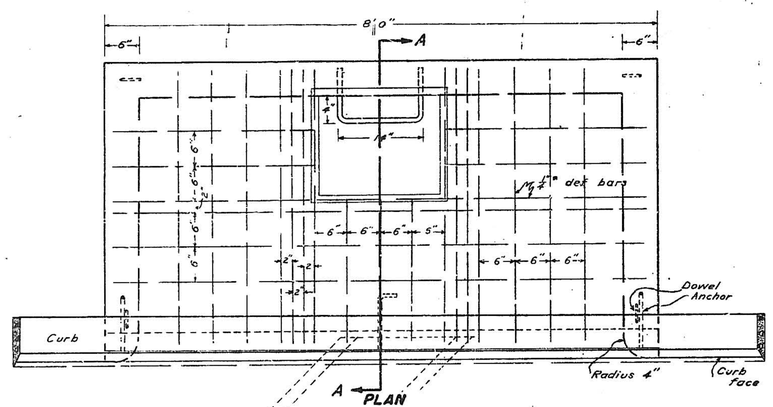
VICINITY MAP

Proposed Project —

This is to certify that I am a Registered Professional Engineer, and the following map or plan shows all the final location of natural streams made by me or under my direction, and that the survey data and corrected to the date of my field.

Coleman L. Hasse

Sheet 2

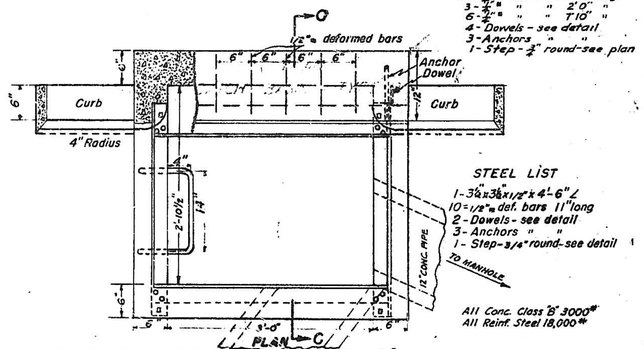


STANDARD CATCH BASIN – TYPE B.

SCALE: 1 INCH = 1 FOOT

STEEL LIST

1 - 3½"x3½"x½" x 8'0" L
14 - ½" ø def. bars 3'11" long
3 - ½" ø " " 2'0" "
6 - ½" ø " " 1'10" "
4 - Dowels - see detail
3 - Anchors " "
1 - Step - ½" round - see plan



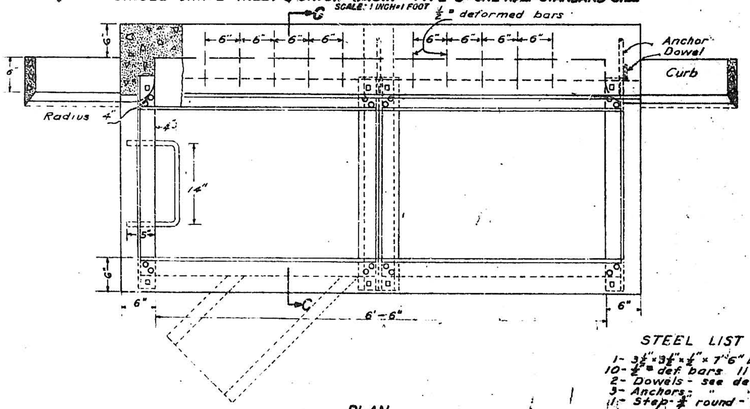
STEEL LIST

1 - 3½"x3½"x½" x 4'-6" L
10 - ½" ø def. bars 11" long
2 - Dowels - see detail
3 - Anchors " "
1 - Step - ¾" round - see detail

All Conc. Class "B" 3000#
All Reinf. Steel 18,000#

SINGLE GRATE INLET & CATCH BASIN – TYPE C - ONE-HALF STANDARD SIZE

SCALE: 1 INCH = 1 FOOT

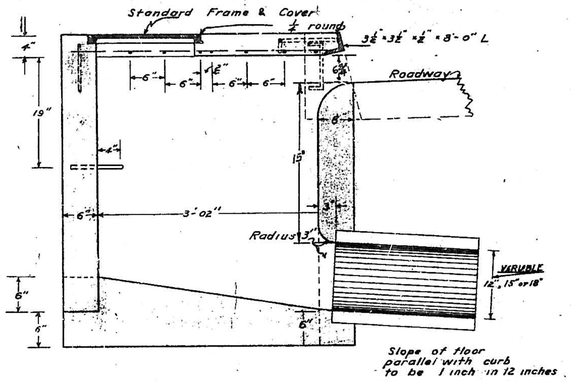


STEEL LIST

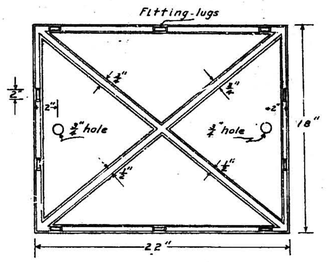
1 - 3½"x3½"x½" x 7'6" L
10 - ½" ø def. bars 11" long
2 - Dowels - see detail
3 - Anchors " "
1 - Step - ¾" round - see plan

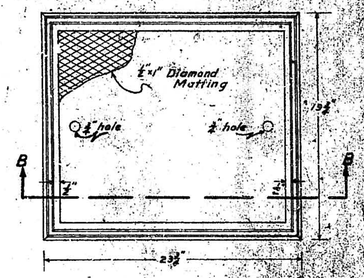
DOUBLE GRATE STANDARD CATCH BASIN – TYPE C

Scale 1" = 1'2"



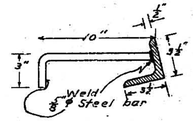
SECTION A–A



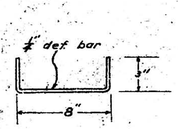


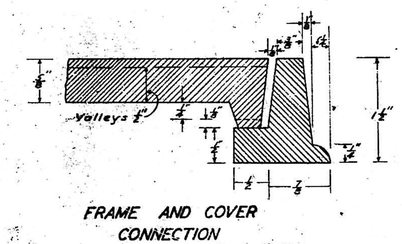


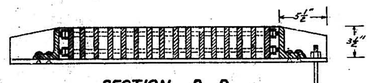
SECTION B–B



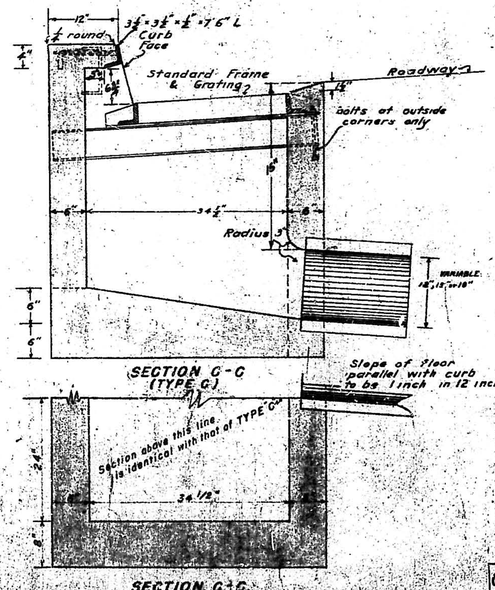
Dowel and anchor design are identical for both types of catch basins

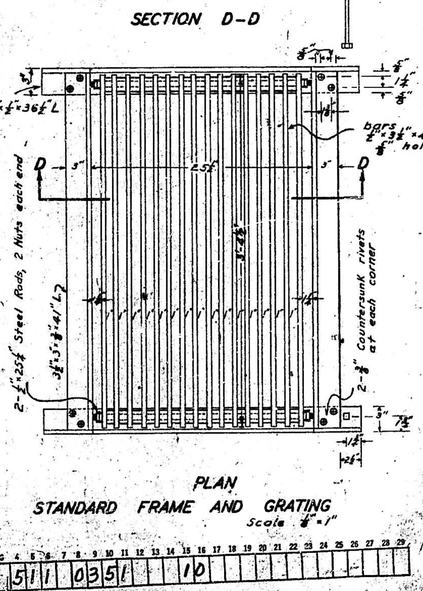


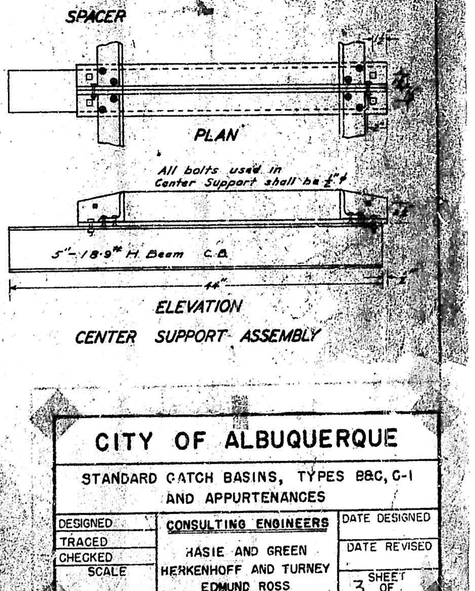










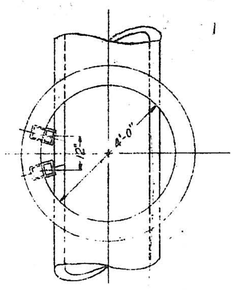


CITY OF ALBUQUERQUE

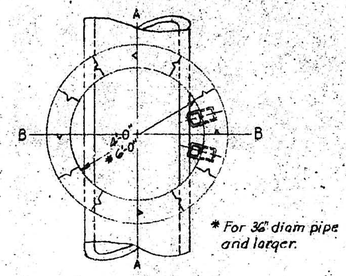
STANDARD CATCH BASINS, TYPES B&C, C-1 AND APPURTENANCES

DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED	HASIE AND GREEN	DATE REVISED
CHECKED	HERKENHOFF AND TURNEY	
SCALE	EDMUND ROSS	SHEET 3 OF

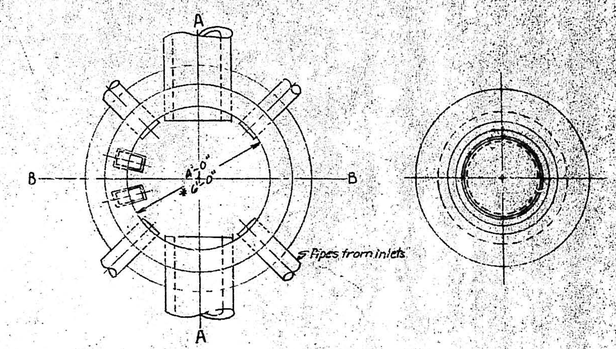
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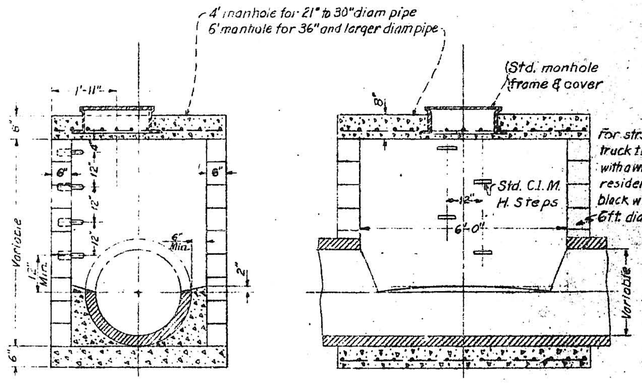


PRECAST CONC COVER



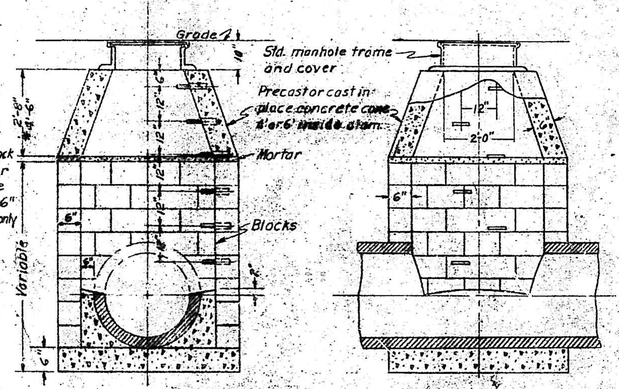
SECTION PLAN





SECT. 4 FOOT M.H. SECT. 6 FOOT M.H.

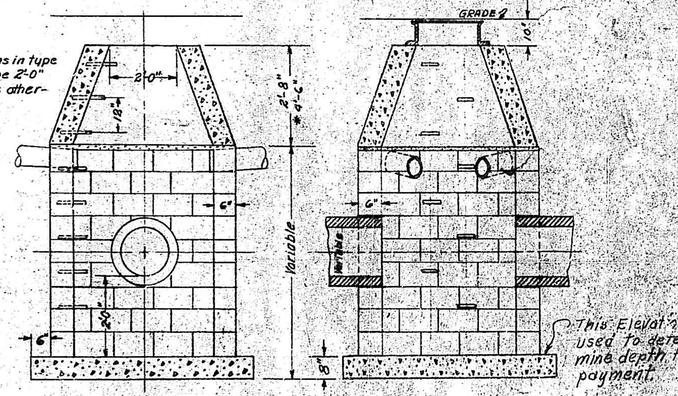
STANDARD STORM SEWER MANHOLE TYPE "A"



SECTION B-B SECTION A-A

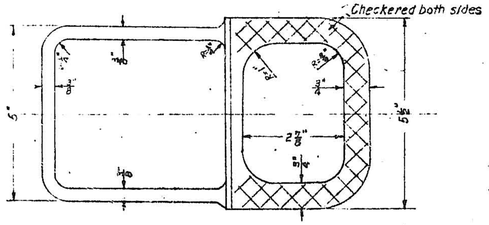
STANDARD STORM SEWER MANHOLE TYPE "B"

NOTE:
All catch basins in type "C" manholes to be 2'-0" in depth unless otherwise noted.

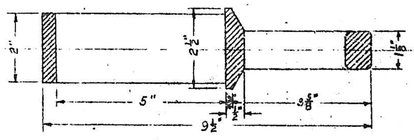


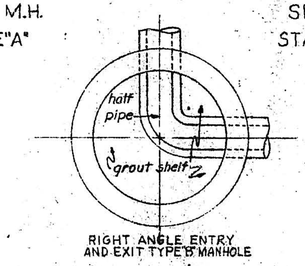
SECTION B-B SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "C"

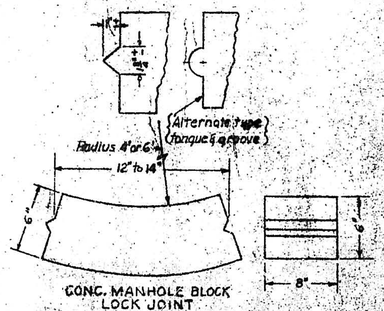


STANDARD MANHOLE STEP



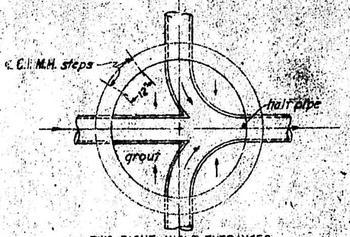


RIGHT ANGLE ENTRY AND EXIT TYPE 'B' MANHOLE



CONC. MANHOLE BLOCK LOCK JOINT

All conc. for manholes & blocks - class "A" 3000 #/in² min.
All reinf. steel structure grade - 18000 #/in²

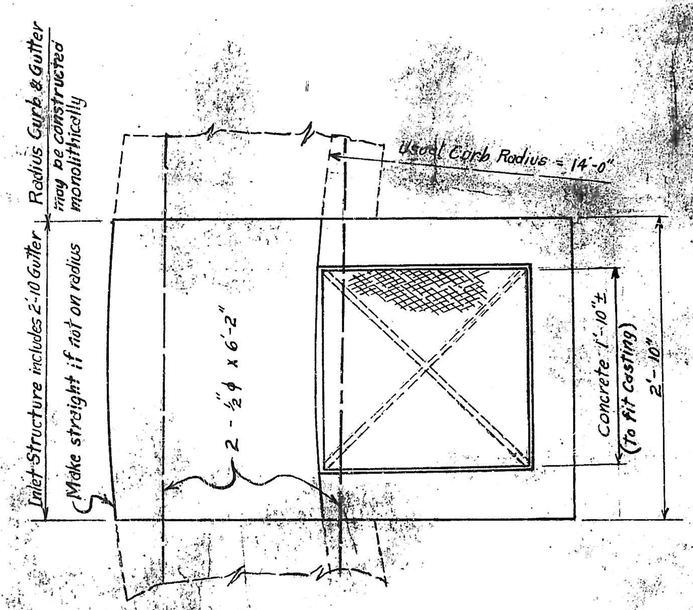


TWO RIGHT ANGLE ENTRANCES INTO MAIN FLOW LINE TYPE 'B' M.H.

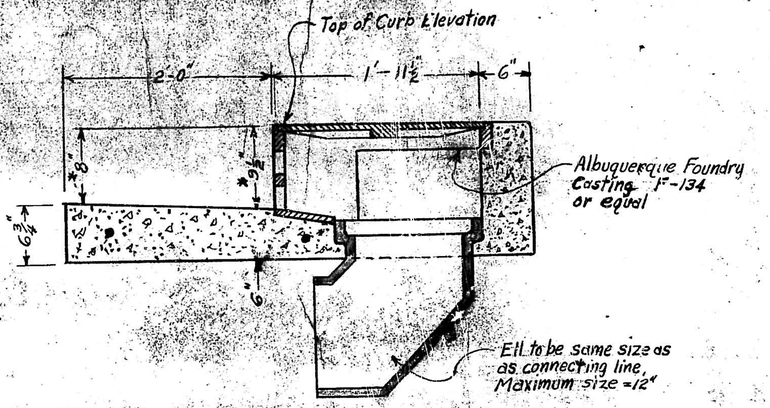
MANHOLE SPECIFICATIONS

The contractor has the option of building the masonry walls of all manholes of solid concrete or block. If solid concrete is used, the walls must have a thickness of not less than six inches. Block for six inch walls must have a thickness of not less than eight (8) inches, and a width of not less than six (6) inches, a length of twelve (12) to fourteen (14) inches and shall be lock joint type. The concrete from which such blocks are constructed shall meet the specifications for class "A" as set forth in govetning concrete specifications for this project. , Type of block must be approved by the Engineer and each block shall be molded with a curvature equal to and matching exactly that of the manhole being built. All concrete blocks shall conform in all respects to the standard specifications for "Conc. Masonry Units for construction of Catch Basin & Manholes" A.S.T.M. Designation C 139-39 or any subsequent revisions thereof. Cones may be poured in place, or precast and then grouted to manhole barrel. All manhole frames, covers and steps to be standard cast iron as shown. In wet sewer construction manhole barrels shall be constructed of poured conc. to a pre-determined elevation as shown on plan & profile sheets. Remainder of barrel may be constructed of curved conc. block set in water proof mortar.

CITY OF ALBUQUERQUE		
STANDARD MANHOLE DESIGNS.		
DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED	HASIE AND GREEN	
CHECKED	HERKENHOFF AND TURNEY	DATE REVISED
SCALE	EDMUND ROSS	4 SHEET OF



PLAN — CURB INLET (CASTING F-134)
Scale 1½" = 1'

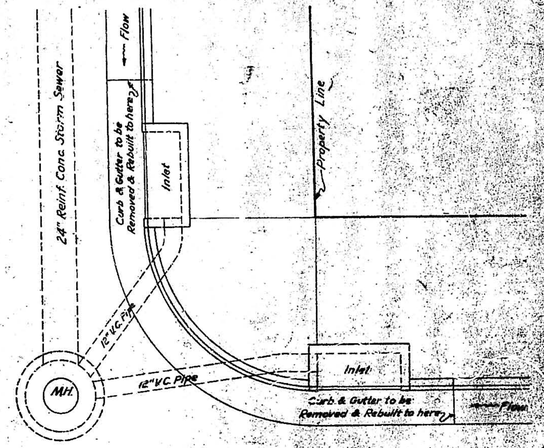


SECTION — CURB INLET

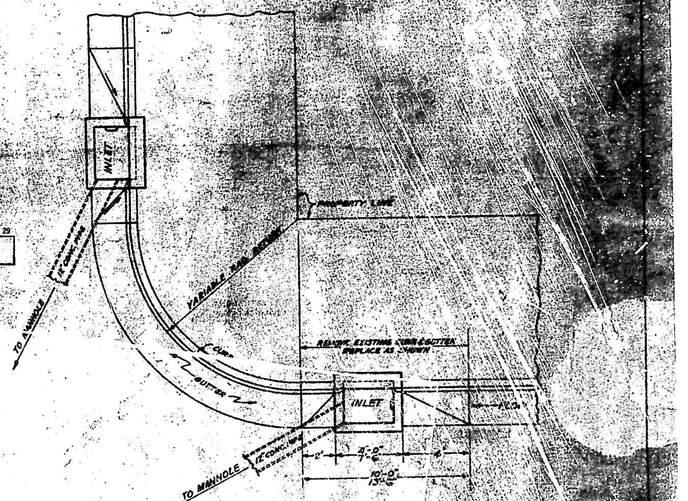
* Note— Usually the Inlet will be placed in the mid-point of the radius. The 8" dimension will diminish to 7½" at the tangent point of the radius and the 9½" diminishes to 8". These dimensions may be modified by the Engineer for special circumstances.

Radius Curb & Gutter not included unless specified.

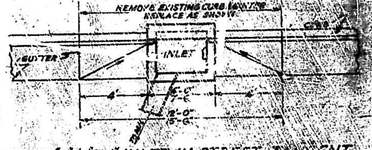
When constructed in existing curb remove 7'



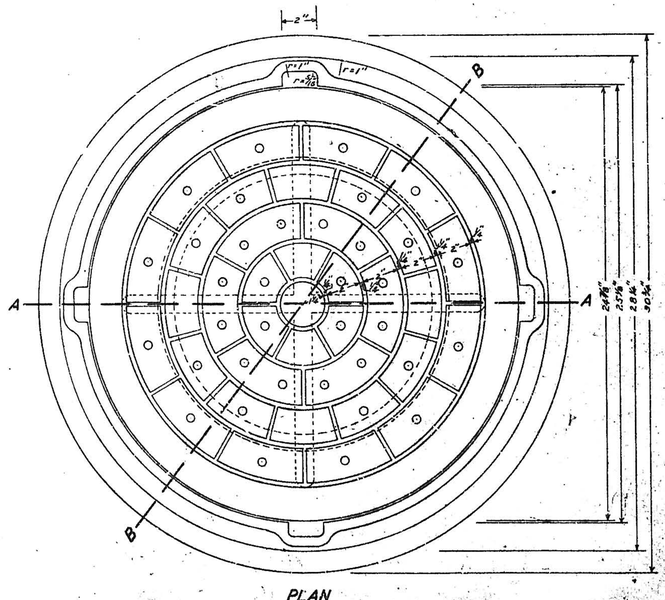
LOCATION OF INLETS IN STREET-TYPE 'A'
Scale 1" = 1'-0"



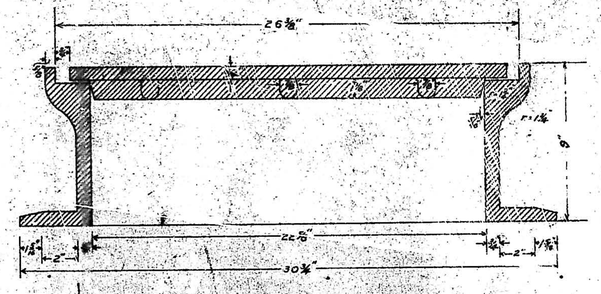
LOCATION OF TYPE 'C' & 'C-1' INLETS IN STREET



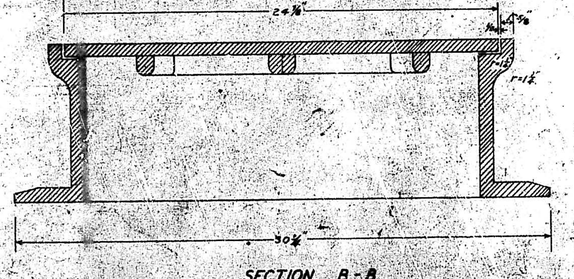
LOCATION OF TYPE 'C' & 'C-1' INLET IN STREET TANGENT



PLAN
STANDARD MANHOLE FRAME AND COVER
Scale: ½"=1"



SECTION A-A

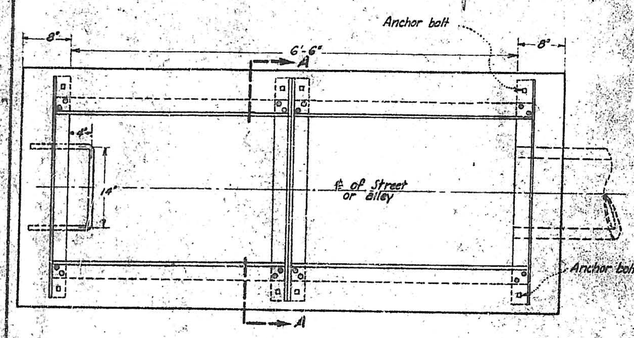


SECTION B-B
Scale: ½"=1"

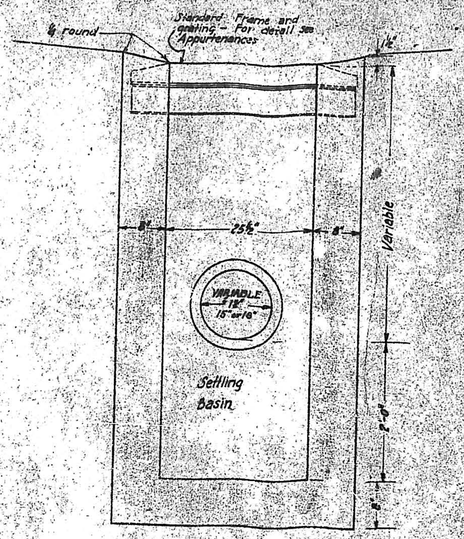
CITY OF ALBUQUERQUE

TYPE A CURB INLET
STANDARD MANHOLE FRAME AND COVER

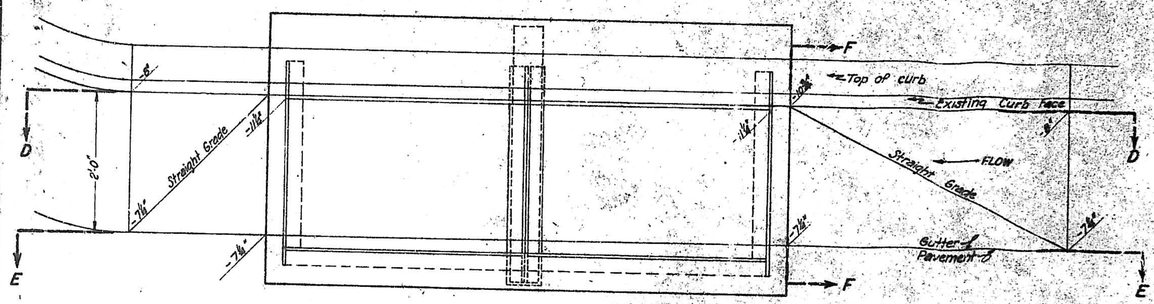
DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED	HASIE AND GREEN / HERRENHOFF AND TURNEY EDMUND ROSS	DATE REVISED
CHECKED		
SCALE		SHEET 5 OF



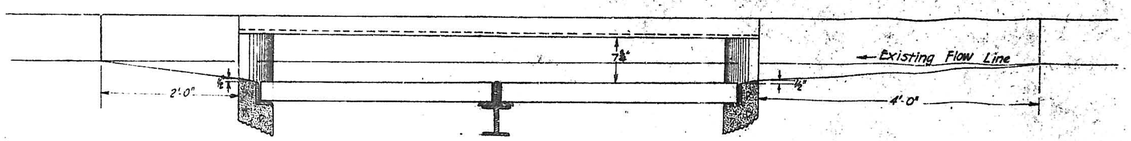
PLAN
STANDARD CATCH BASIN TYPE - D
Scale 1"=1'



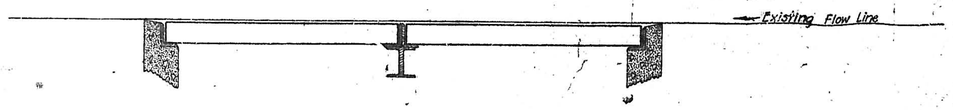
SECTION A-A



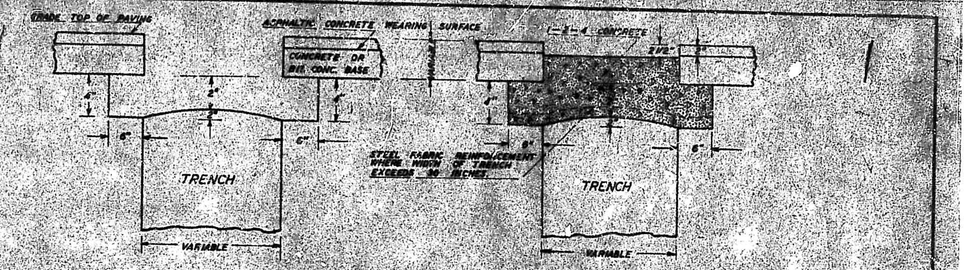
PLAN
STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
TYPES A, B AND C & C-1



SECTION D-D



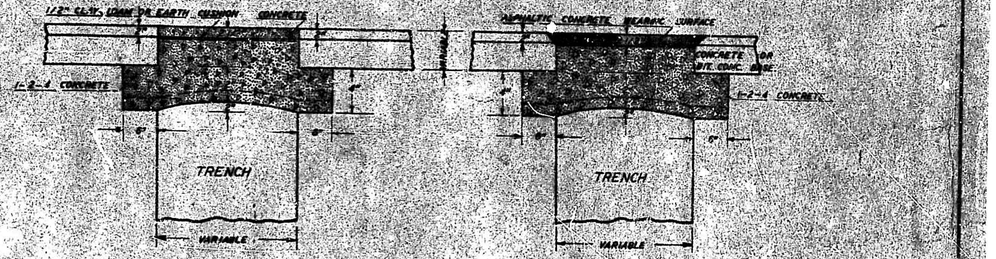
SECTION E-E



STEP 1. STEP 2.

(A). BACKFILL AND HAND-TAMP THE OPEN TRENCH IN SUCCESSIVE LAYERS OF NOT MORE THAN SIX INCHES IN THICKNESS.
(B). SQUARE UP EXPOSED EDGES OF PAVING IN A NEAT MANNER.
(C). EXCAVATE DIRECTLY UNDER EDGE OF PAVING A TRENCH 6" WIDE AND 4" DEEP AS SHOWN ABOVE.
(D). ARCH BACKFILL IN CENTER OF TRENCH MAKING THE CROWN AT CENTER 2" BELOW BOTTOM EDGE OF PAVING.
(E). DEPTH OF PATCH WILL VARY ACCORDING TO TYPE OF PAVING TO BE REPAIRED.

(A). WASH OFF THE EXPOSED PAVING EDGES AND WET THE SUBGRADE LIGHTLY.
(B). FILL WITH A 1-2-4 MIX CONCRETE TO WITHIN 2" OF GRADE OR TOP OF PAVING TAMP THE CONCRETE THOROUGHLY ESPECIAL CARE BEING TAKEN TO COMPLETELY FILL AND TAMP THE CONCRETE INTO THE TRENCH UNDER EDGE OF PAVING.
(C). WHERE THE WIDTH OF TRENCH EXCEEDS 30 INCHES PLACE ONE LAYER OF STEEL FABRIC REINFORCEMENT WEIGHING NOT LESS THAN 25 POUNDS PER 100 SQ. FT., 2" ABOVE THE BOTTOM OF THE CONCRETE.
(D). STRIKE THE SURFACE OF THE CONCRETE OFF ROUGHLY WITH A SHOVEL BUT DO NOT FINISH SMOOTH.

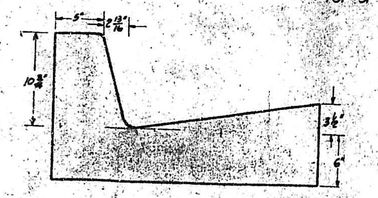


STEP 3. STEP 4.

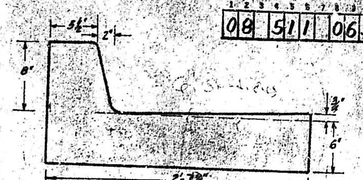
(A). AFTER THE CONCRETE PLACED IN STEP 2 HAS TAKEN ITS INITIAL SET PLACE A 1/2" LAYER OF CLAY, LOAM OR ORDINARY EARTH (NOT SAND) OVER THE SURFACE OF THE CONCRETE.
(B). FILL REMAINDER OF CUT WITH 1-2-4 MIX CONCRETE TO TOP OF PAVING AND FINISH WITH WOODEN FLOAT.
(C). BARRICADE AGAINST TRAFFIC FOR AT LEAST 24 HOURS AFTER PLACING TOP COURSE. AT NIGHT PLACE LANTERNS OR TORCHES BY THE BARRICADES.

NOTE: TO REPAIR CUTS IN PLAIN CONCRETE ALLEY PAVING. PREPARE THE OPENING AS IN STEP 1. FILL WITH 1-2-4 MIX CONCRETE AND FINISH FLUSH WITH TOP OF PAVING.

(A). BREAK AND CHIP OUT THE 2" TOP COURSE OF CONCRETE AND 1/2" LAYER OF DIRT.
(B). CUT BACK THE EDGE OF PRESENT ASPHALTIC CONCRETE SURFACE ON AN ANGLE OF 45° WITH VERTICAL OR 1 TO 1 SLOPE.
(C). CLEAN OUT CUT AND SWEEP CLEAN WITH HEAVY BROOM.
(D). HAUL AWAY AND DISPOSE OF ALL WASTE MATERIALS.
(E). REPAIR CUT WITH ASPHALTIC CONCRETE WEARING SURFACE IN ACCORDANCE WITH CITY PAVING SPECIFICATIONS. THE SURFACE FINISH TO BE THE SAME TYPE AS THAT OF PAVING SURROUNDING THE PATCH.
(F). THE STREET IN VICINITY OF PATCH SHALL BE THOROUGHLY CLEANED UP BEFORE BEING OPENED TO TRAFFIC.



SECTION F-F



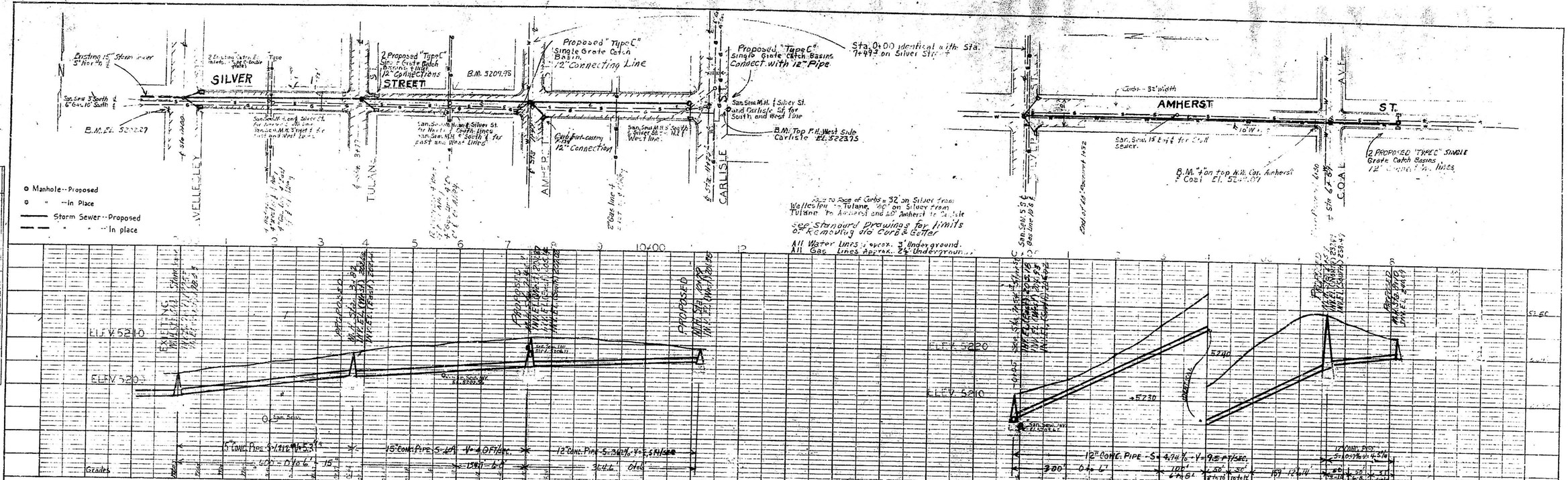
STANDARD SECTION
CURB AND GUTTER

08 511 0651 10

CITY OF ALBUQUERQUE

STANDARD METHOD OF REPAIRING CUTS IN PAVEMENTS - ALSO - STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS

DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED	HASIE AND GREEN	DATE REVISED
CHECKED	HERKENHOFF AND TURMEY	
SCALE	EDMUND ROSS	SHEET 6 OF 23



SHEET QUANTITIES

Depth	12"	15"
0-6	998	600
6-8	150	155
8-10	100	
10-12	50	
12-14	159	
Totals	1175	755

1 - Curb Inlet (Casting F-134)
6 - Single Grate Type Catch Basin
5' Type "B" MH 0-6' 1 Existing MH to join MH. Additional Height - 6'
Cut Flexible Type Pavement 1230 L.F.
Remove Existing Curb & Gutter 37 L.F.
Construct Curb & Gutter 40 L.F.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
0 0 5 1 1 1 0 7 5 1 0 1 5 7 1 6 2

PLATE 5-PLAN-PROFILE O.P.S.&S.E.
CHARLES BRUNING COMPANY, INC.

NOTE: T.C. - TOP OF CURB, T.G. - TOP OF GRATE. ALL WATER LINES APPROX. 3' UNDER GROUND AND ALL GAS LINES 2'6". ELEVATIONS FOR TOP OF CURB AND TOP OF GRATE TO BE VERIFIED IN THE FIELD.

NOTE: "ALL SAN. SEWERS ARE IN CENTER OF ALLEYS. WATER LINES ARE 4' WEST. GAS LINES ARE 4' EAST.

PLAN — SURVEYED, DRAWN, GRADES CHECKED, ALIGNMENT CHECKED, NOTE BOOK, PT. OF INTF. CHECKED, STRUCTURE LOCATIONS CH. CK.

PROFILE — SURVEYED, DRAWN, GRADES CHECKED, ALIGNMENT CHECKED, NOTE BOOK, STRUCTURE LOCATIONS CH. CK.

SCALE 1" = 100'

Sheet Quantities

4' Type B Standard M.H. (to G)			11	Ea
Extra Depth of Type B M.H.			10	V.F.
Single Grate Type C Inlet and Catch Basin			18	Ea
Curb Inlet Catch Basins 6-7.5H			14	Ea
Remove Existing Conc. C&G			128	L.F.
Construct'g Conc. C&G			708	L.F.
Connecting to Existing M.H.			3	Ea
Cutting Flexible Type Pavement			2413	L.F.
Conc. Pipe				
Depth	12"	18"	21"	24" 27"
0-4	893'		278'	319'
4-8		430'	926'	250' 370'
8-10		170'	592'	115'
10-12		215'	323'	61'
12-14		120'	65'	
14-16			51'	
	893'	1019'	2235'	750' 370'

GRADE

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins
T.C. = 5181.58
T.G. = 5180.58

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins
T.C. = 5181.64
T.G. = 5180.64

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins
T.C. = 5179.01
T.G. = 5176.51

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins
T.C. = 5209.36
T.G. = 5206.36

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins
T.C. = 5219.51
T.G. = 5218.51

2 Existing Catch Basins

T.C. = 5181.57
T.G. = 5180.57

Remove and Replace 10 L.F. of Conc. C&G at each inlet.

Construct 10 L.F. of Conc. C&G at each inlet

Construct 10 L.F. of Conc. C&G at each inlet

Remove and Replace 10 L.F. of Conc. C&G at each inlet.

T.C. = 5204.12
T.G. = 5203.62

Remove and Replace 10 L.F. of Conc. C&G at each inlet.

Construct 10 L.F. of Conc. C&G at each inlet.

Remove and Replace 10 L.F. of Conc. C&G at each inlet.

T.C. = 5184.49
T.G. = 5183.99

T.C. = 5219.26
T.G. = 5218.26

Remove and Replace 10 L.F. of Conc. C&G at each inlet.

57162

57172

STA. IDENTICAL WITH END OF ABOVE. SEE ABOVE NOTES FOR DATA AT THIS INTERSECTION.

STATIONS IDENTICAL

1" = 100'

Sheet 8

NOTE: T.C.-- TOP OF CURB.
T.G.-- TOP OF GRATE.
ALL WATER LINES APPROX. 3' UNDERGROUND AND ALL GAS LINES 2½'.

ELEVATIONS FOR TOP OF CURB AND TOP OF GR. "C" TO BE VERIFIED IN THE FIELD.

NOTE: ALL SAN. SEWERS ARE IN CENTER OF ALLEYS. WATER LINES ARE 4' WEST & GAS LINES ARE 4' EAST

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins.
T.C.-- 5181.58
T.G.-- 5180.58

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins.
T.C.-- 5177.81
T.G.-- 5176.81

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins.
T.C.-- 5209.36
T.G.-- 5208.36

12" Connections
2 Proposed "Type C" Single Grate Inlet and Catch Basins.
T.C.-- 5219.23
T.G.-- 5218.23

PRINCETON AVE. — VASSAR AVE. — WHEATLEY AVE. — GERARD AVE. — DARTMOUTH AVE. — RICHMOND AVE. — HARVARD AVE.

12" SAN. SEWER — 22" WATER LINE — HIGHLAND AVE.

2 Existing Catch Basins.
T.C.- 5181.57
T.G.- 5180.57

RIM ON CURB EL. 5183.43
Construct 10 L.F. of Conc. C46. at each inlet.
T.C.- 5182.93
T.G.- 5183.43

Construct 10 L.F. of Conc. C46. at each inlet.
T.C.- 5177.79
T.G.- 5176.79

Remove and Replace 10 L.F. of Conc. C46. at each inlet.
T.C.- 5209.82
T.G.- 5208.82

RIM ON CURB EL. 5220.68
Construct 10 L.F. of Conc. C46. at each inlet.
T.C.- 5219.26
T.G.- 5218.26

Remove and Replace 10 L.F. of Conc. C46. at each inlet.

SCALE-1"=100'

Sheet Quantities

4' Type B Standard M.H. (C-6)			11	Ea.
Extra Depth-4' Type B M.H.			370	V.F.
Single Grate Type C Inlet and Catch Basin			18	Ea.
Curb Inlet Castings #134			14	Ea.
Remove Existing Conc. C46.			128	L.F.
Construct New Conc. C46.			208	L.F.
Connecting to Existing M.H.			3	Ea.
Cutting Flexible Type Pavement			3045	L.F.

Concrete Pipe

Depth	12"	18"	21"	24"	27"
0'-6'	893'		278'	319'	
6'-8'		430'	126'	250'	310'
8'-10'		170'	592'	115'	
10'-12'		273'	323'	66'	
12'-14'		126'	65'		
14'-16'			51'		
	893'	1019'	2235'	750'	310'

GRADE

EXISTING 12" SAN. SEWER INVERT EL. 5174.00

PROPOSED 4' TYPE B M.H. INVERT EL. 5171.67

PROPOSED 4' TYPE B M.H. INVERT EL. 5171.67

PROPOSED 4' TYPE B M.H. INVERT EL. 5171.67

PROPOSED 4' TYPE B M.H. INVERT EL. 5171.67

EXISTING 12" SAN. SEWER INVERT EL. 5174.00

21" CONC. PIPE-S=1.25%-V=9.2 FT/SEC — 24" CONC. PIPE-S=1.30%-V=9.2 FT/SEC — 21" CONC. PIPE-S=1.10%-V=8.8 FT/SEC — 18" CONC. PIPE-S=1.10%-V=8.8 FT/SEC

PROFILE — SURFACE / GRADE / GRADE OF SEWER / NOTE WORK (SEWERS, CATCH BASINS, ETC.) / NOTE WORK (CONVERT CHECKED, ETC. AS APPROVED)

PLAN — PLOTTED / TRACED / NOTE WORK (CONVERT CHECKED, ETC. AS APPROVED)

NO. | BY | DATE

NOTE: T.C.-- TOP OF CURB.
T.G.-- TOP OF GRATE.
ALL WATER LINES APPROX. 3' UNDERGROUND AND ALL GAS LINES 2½'.

ELEVATIONS FOR TOP OF CURB AND TOP OF GR. "C" TO BE VERIFIED IN THE FIELD.

12" Connections
2 PROPOSED "TYPE C" SINGLE GRATE INLET AND CATCH BASINS.
T.C.-- 5227.40
T.G.-- 5226.40

12" Connections
2 PROPOSED "TYPE C" SINGLE GRATE INLET AND CATCH BASINS.
T.C.-- 5239.50
T.G.-- 5238.50

12" Connections
2 PROPOSED "TYPE C" SINGLE GRATE INLET AND CATCH BASINS.
T.C.-- 5252.50
T.G.-- 5251.50

12" Connections
2 PROPOSED "TYPE C" SINGLE GRATE INLET AND CATCH BASINS.
T.C.-- 5267.33
T.G.-- 5266.33

Remove and Replace 10 L.F. of Conc. C46. at each inlet.

12 Proposed Curb Inlet castings #134 12" Connections

Remove and Replace 7 L.F. of Conc. C46 at each inlet.
T.C.- 5273.71
T.G.- 5272.71

2 Proposed Curb Inlet Castings #134 12" Connections
T.C.-- 5274.99
T.G.-- 5273.99

T.C.-- 5276.50
T.G.-- 5275.00

HIGHLAND AVE. — 22' WATER LINE — 8" SAN. SEWER — CARLISLE AVE. — VENTURA AVE. — HERMOSA AVE.

T.C.-- 5231.90
T.G.-- 5230.90

Construct 10 L.F. of Conc. C46 at each inlet

T.C.-- 5239.65
T.G.-- 5238.65

RIM ON CURB S.E. COR. TULANE & HIGHLAND AVE. EL. 5239.66

Remove and Replace 10 L.F. of Conc. C46. at each inlet.

T.C.- 5251.96
T.G.- 5250.96

Remove and Replace 10 L.F. of Conc. C46. at each inlet.

T.C.-- 5267.33
T.G.-- 5266.33

STATIONS IDENTICAL

Plug outlet from dist. storm sewer M.H. to San. Sewer M.H. Cut into existing storm sewer M.H. to receive new 18" pipe

STATIONS IDENTICAL

T.C.-- 5276.99
T.G.-- 5275.99

Remove and Replace 7 L.F. of Conc. C46. at each inlet.

T.C.-- 5276.50
T.G.-- 5275.00

57152

57172

SCALE-1"=100'

EXISTING 12" SAN. SEWER INVERT EL. 5221.10

PROPOSED 4' TYPE B M.H. INVERT EL. 5217.67

PROPOSED 4' TYPE B M.H. INVERT EL. 5217.67

PROPOSED 4' TYPE B M.H. INVERT EL. 5217.67

PROPOSED 4' TYPE B M.H. INVERT EL. 5217.67

EXISTING 12" SAN. SEWER INVERT EL. 5221.10

21" CONC. PIPE-S=1.40%-V=9.8 FT/SEC — 21" CONC. PIPE-S=1.40%-V=9.8 FT/SEC — 18" CONC. PIPE-S=1.10%-V=8.8 FT/SEC — 15" CONC. PIPE-S=0.82%-V=7.7 FT/SEC

GRADE

PROFILE — SURFACE / GRADE / GRADE OF SEWER / NOTE WORK (SEWERS, CATCH BASINS, ETC.) / NOTE WORK (CONVERT CHECKED, ETC. AS APPROVED)

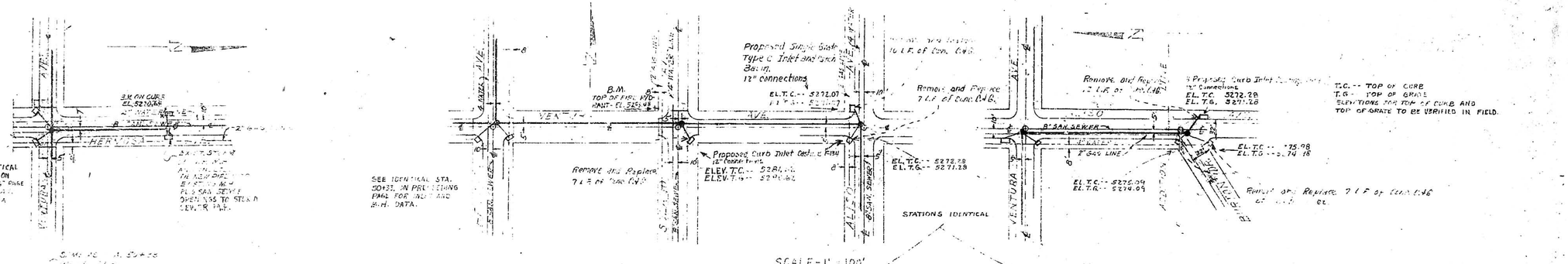
PLAN — PLOTTED / TRACED / NOTE WORK (CONVERT CHECKED, ETC. AS APPROVED)

NO. | BY | DATE

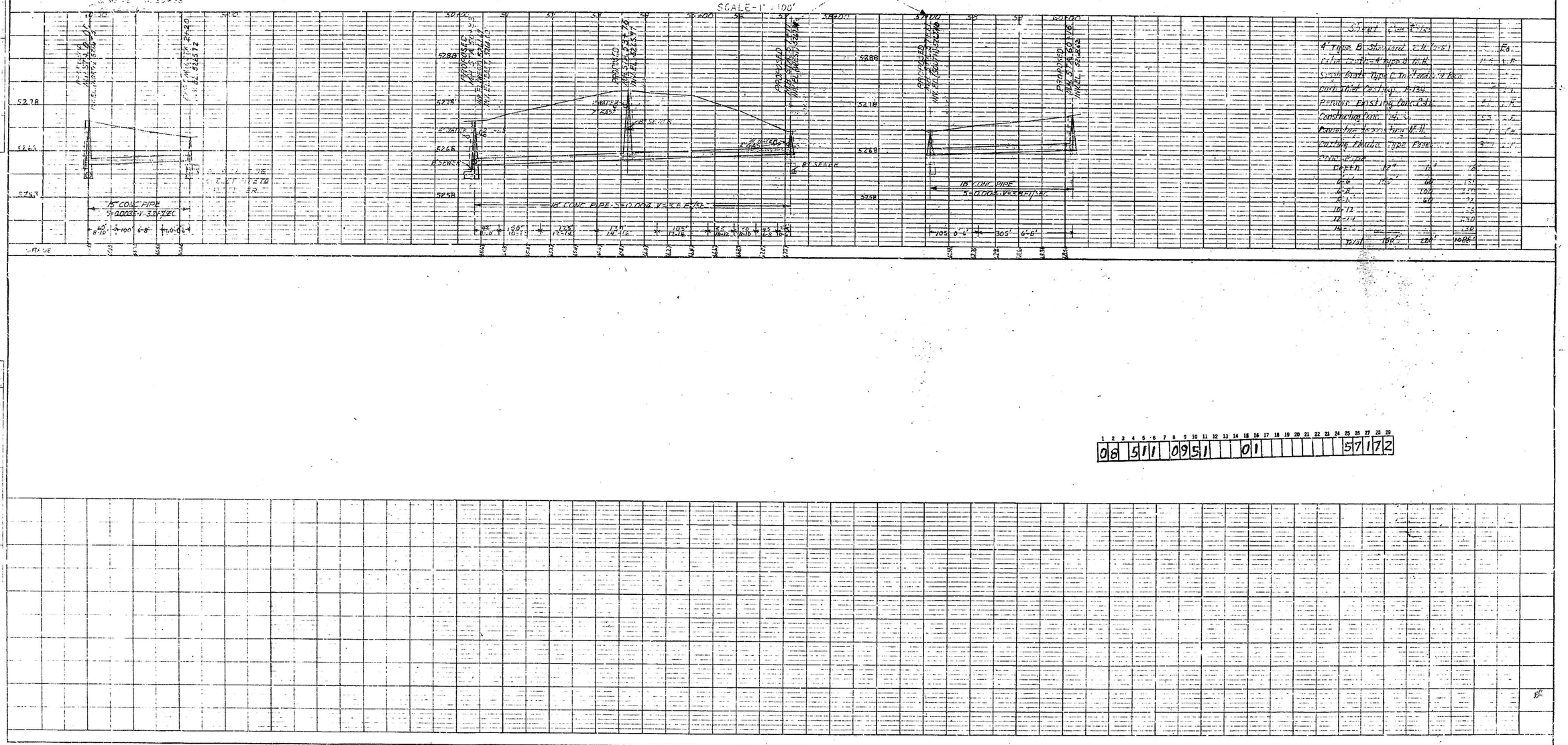
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Sheet 8

PLATE V—PLAN-PROFILE G. P. R. L. E. L. STANDARD
KEUFFEL & ESSER CO. NEW YORK



SCALE-1" = 100'



Street				
4" Type B Standard	C.H. 0-51			Ea.
Relocate 4" Type B Std.				L.F.
Single Grate Type C Inlet and Curb Basin				Ea.
Curb Inlet Casting	C-134			"
Remove Existing Conc. C&G				L.F.
Construction Conc. C&G				"
Relocate Existing Fire Hyd.				Ea.
Curbing Finish	Type			L.F.
Storm Drains				
Diam.	12"	15"	18"	
0-6	140'	100'	121'	
6-8		100'	170'	
8-10		60'	72'	
10-12			85'	
12-14			130'	
14--			130'	
Total	140'	260'	1008'	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
08 511 0951 01 57172

PLATE 2 - PLAN-PROFILE

SHT 9