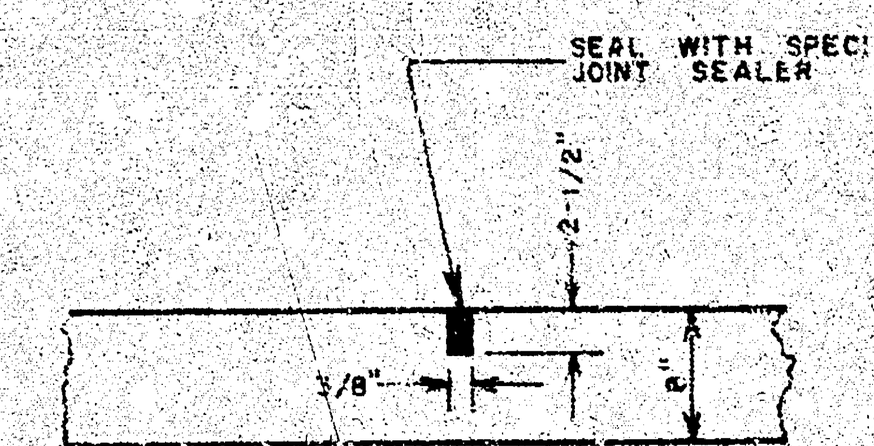
MT. VE[illegible]ON ROAD

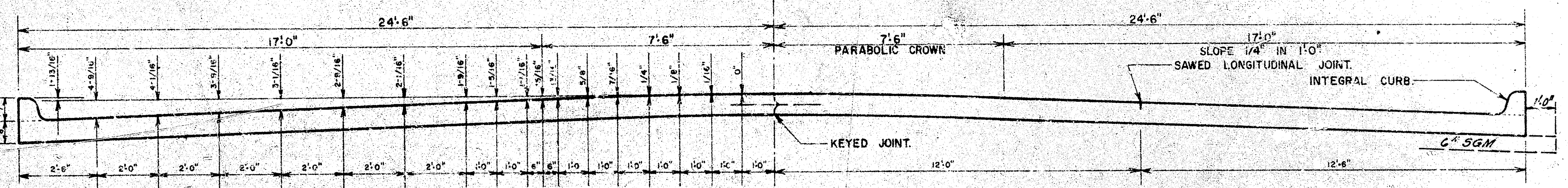
EL. K-15 HIGHWAY TO WL. HYDRAULIC AVE.

PROJ. N[illegible] [illegible]AK.M 574.16
CITY OF WICHITA, KANSAS
R. W. LINN, CITY ENGINEER

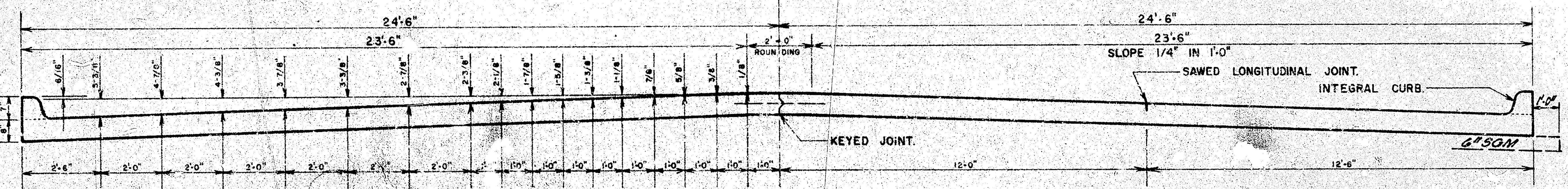
SAWED CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT 30'-0" INTERVALS EXCEPT WHERE AN EXPANSION JOINT IS USED.



DETAIL OF SAWED CONTRACTION AND LONGITUDINAL JOINTS

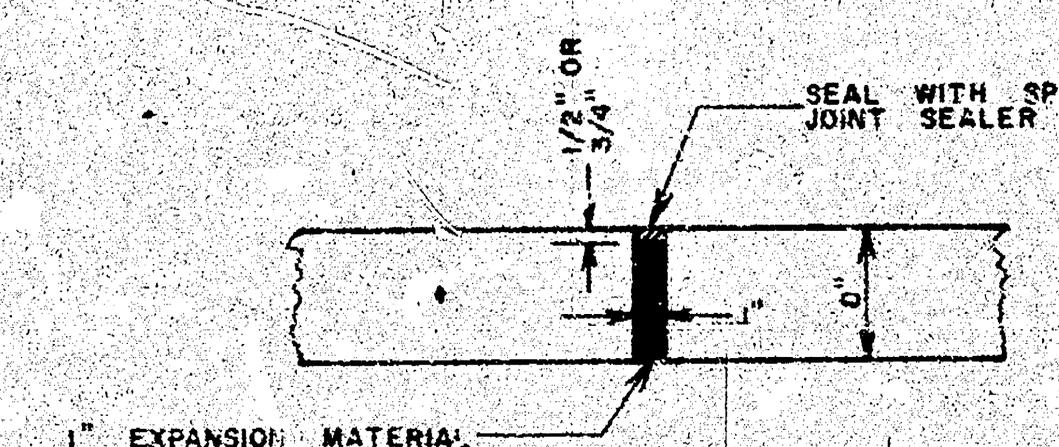


TYPICAL SECTION WITH STANDARD CROWN
48'-0" CONCRETE PAVEMENT

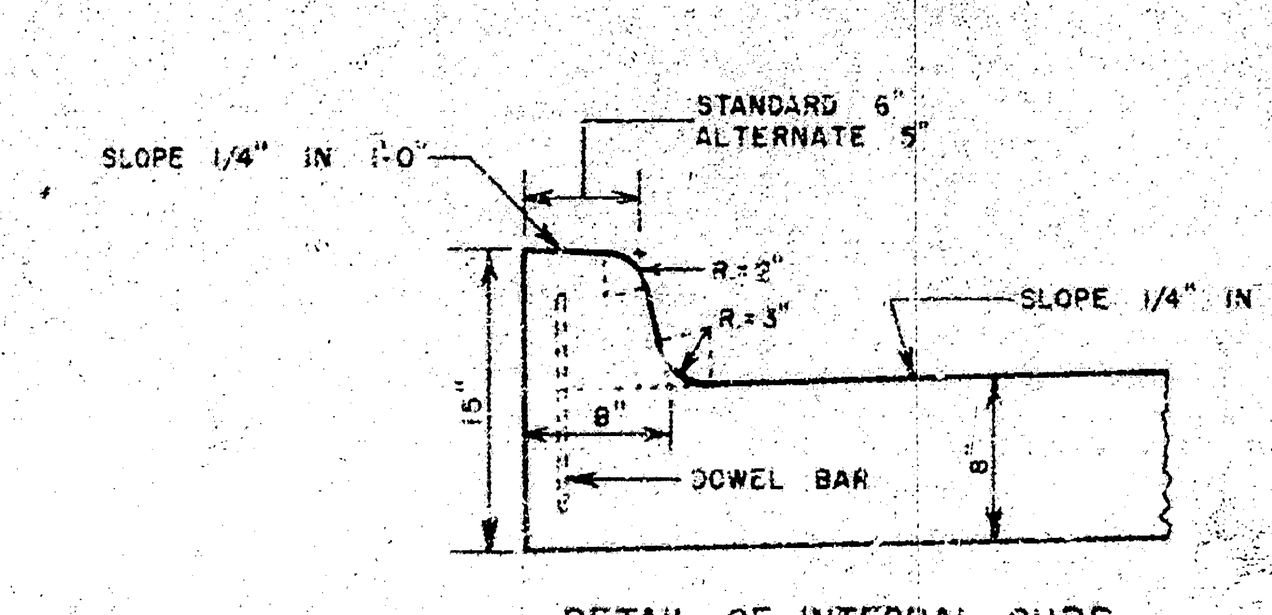


TYPICAL SECTION WITH ALTERNATE CROWN
48'-0" CONCRETE PAVEMENT

EXPANSION JOINTS ARE TO BE CONSTRUCTED AT MAXIMUM INTERVALS OF 120'-0".



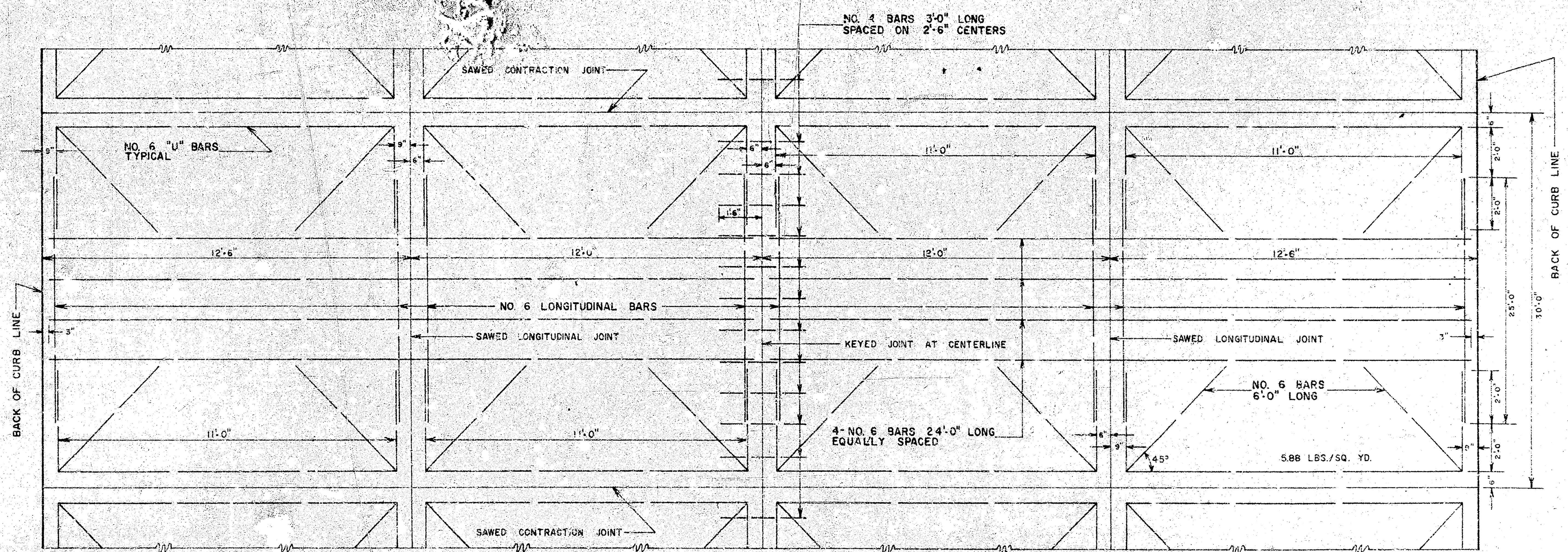
DETAIL OF EXPANSION JOINT



DETAIL OF INTEGRAL CURB

INTEGRAL CURB SHALL BE CUT THROUGH TO THE PAVEMENT IN UNIFORM LENGTHS OF NOT MORE THAN TEN FOOT INTERVALS BETWEEN EXPANSION JOINTS. EXPANSION JOINTS HAVING THE SAME THICKNESS AS THE EXPANSION JOINTS IN THE PAVEMENT SHALL BE CONSTRUCTED IN THE INTEGRAL CURB AT THE SPECIFIED LOCATIONS. NUMBER 4 OR NUMBER 6 DOWELS SHALL BE INSTALLED IN THE INTEGRAL CURB AS SHOWN ON APPROXIMATELY 2'-6" CENTERS.

PAVEMENT GRADES SHOWN ON PLANS ARE FOR STANDARD CROWN.



TYPICAL STEEL PATTERN
48'-0" CONCRETE PAVEMENT

Survey A. Rapp
Plan B. Seidl
Check
Checked

REGURVEY DATA

Field Engr Note- Iron @ Mt. Mt. Vernon & Greenwood have been paved over-check for iron. If not located steel rod (symbol) iron in original location.

(1) 20.00 N.B. Mt. Vernon & 10' E/W on Greenwood
33.38' N.E to "X" on Co.
31.93' NW to "X" on Co.
49.1' S.E. Point N
39.18' S to "X" over old iron beneath walk
637.8' N to Trimble & Skinner & Greenwood

Base Line Topo 1"=20'-0" H. & 1"=20'-0" R.-G

NOTE- Iron @ NE Cor. Greenwood & Mt. Vernon to Be by Bldr.

NOTE- Field Engr. Comment-(1) Plastic Water Line- Approx. 3/4" Diap- is a special house service To Nos # 1500 E. Mt Vernon Road.

ELLIS AVENUE

MT. VERNON ROAD

(Public Road)

HIGHWAY

CONCRETE

PAVEMENT

GREENWOOD AVENUE

20' ALLEY

20' Vacated Alley

Concrete Parking

Reg. Range

FRAME HOUSE

R/W

Canopy Marking to be removed by Bldr.

Removal of Existing Pavements

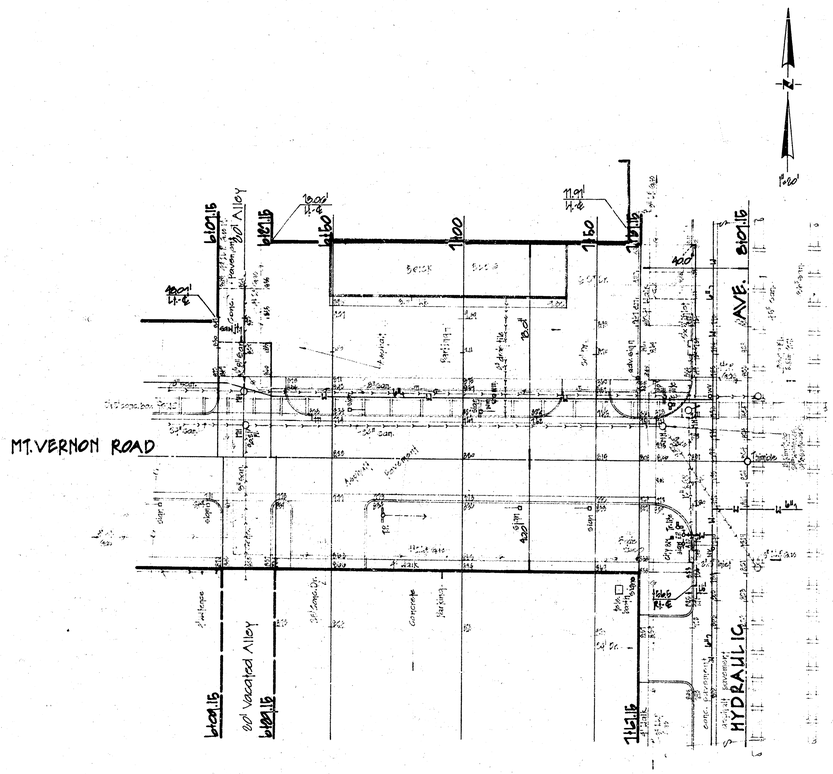
Hope- Rem. existing Life to remain if where practical.

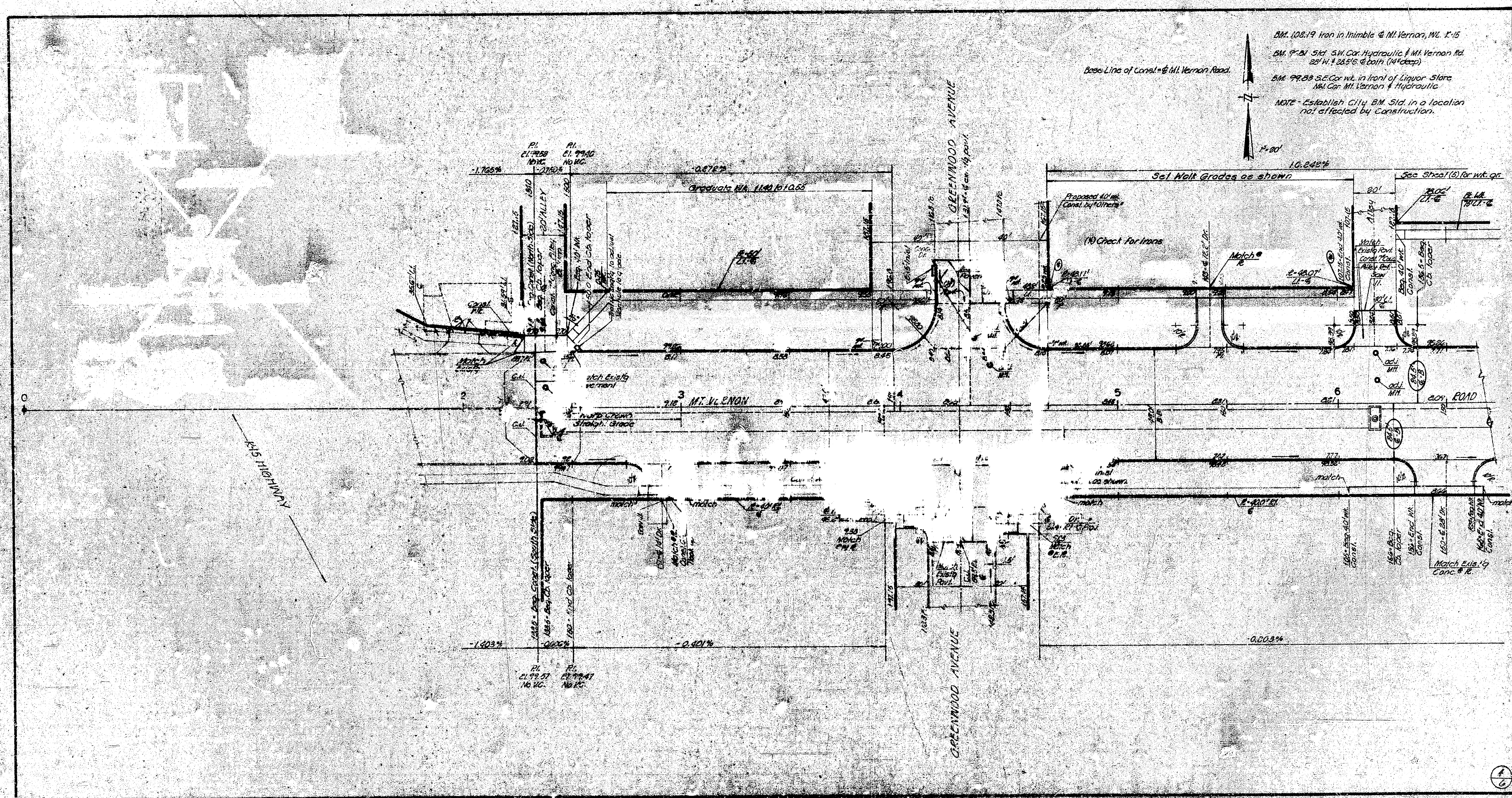
TREE REMOVAL

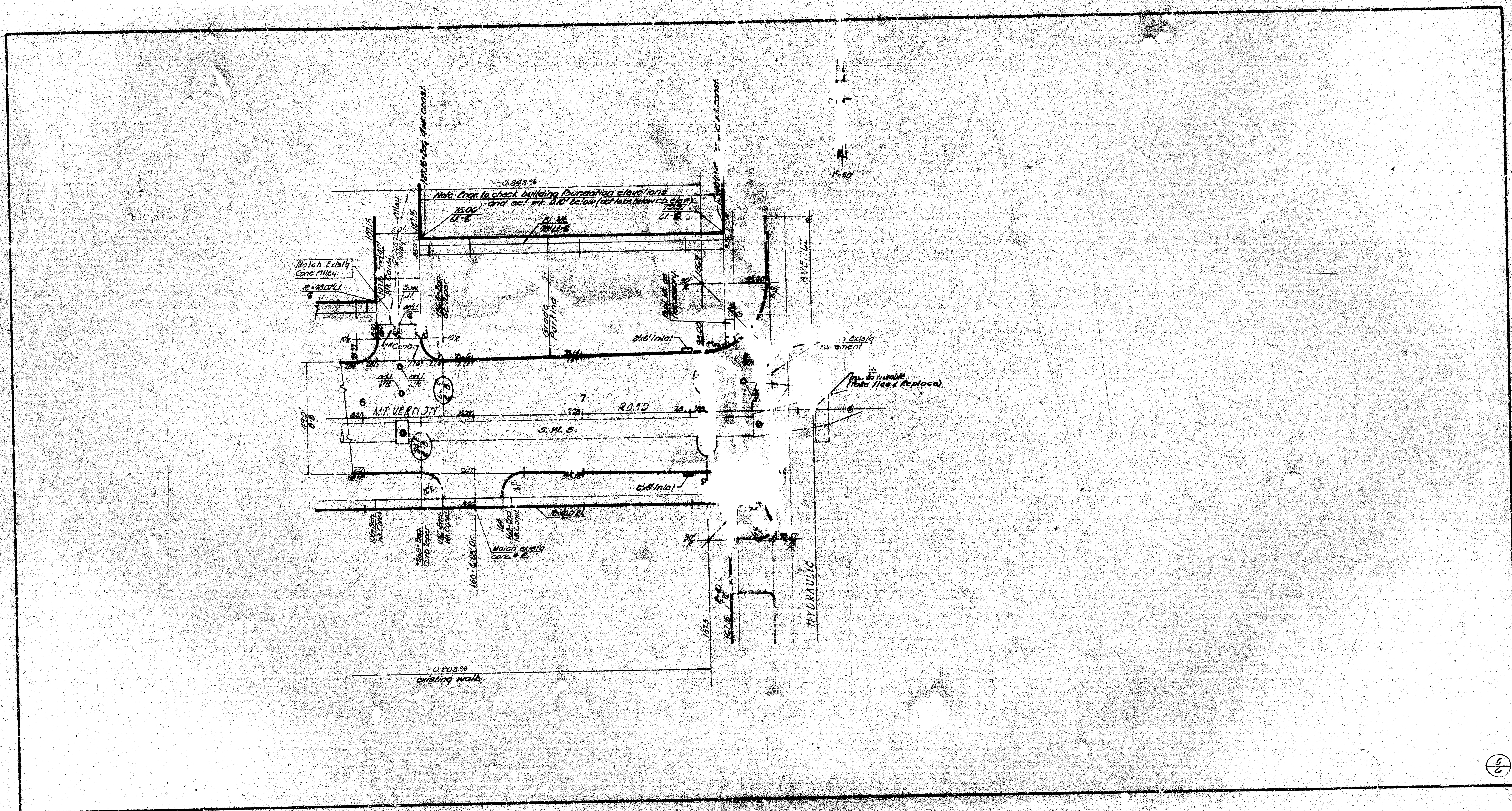
EARTHWORK QUANTITIES

EXCAVATION	COMP FILL
491 C.Y.	0 C.Y.
46 C.Y.	0 C.Y.
537 C.Y.	0 C.Y.

6/6


MT. VERNON ROAD
20' Vacated Alley
HYDRAULIC
AVE.
N


BM. 108.19 Iron in thimble ℄ Mt. Vernon, WL. K-15
BM. 97.81 Std. S.W. Cor. Hydraulic & Mt. Vernon Rd. 28' W. & 28.5' S. ℄ bolt (14" deep)
BM. 99.83 S.E. Cor. wk. in front of Liquor Store N.W. Cor. Mt. Vernon & Hydraulic
NOTE - Establish City BM. Std. in a location not effected by Construction.
Base Line of Const. = ℄ Mt. Vernon Road.
N
1" = 20'
Set Walk Grades as shown
See Sheet (5) for wk. gr.
Graduate Wk. 11.40 to 10.65
Proposed 4.0' wk. Const. by "Others"
(X) Check for Irons
20' ALLEY
GREENWOOD AVENUE
MT. VERNON ROAD
K-15 HIGHWAY
Match Exist'g Conc. & R.
Warp Crown Straight Grade
-1.765%
-0.278%
10.245%
-1.403%
-0.401%
-0.003%
P.I. El. 99.58 No V.C.
P.I. El. 99.40 No V.C.
P.I. El. 99.57 No V.C.
P.I. El. 99.47 No V.C.
4/6


Note: Engr. to check building foundation elevations
and sc! wk. 0.10' below (not to be below cb. elev.)
-0.843%
Match Exist'g
Conc. Alley.
Alley
7" Conc.
Grade
Parking
2x8' Inlet
2x8' Inlet
adj.
6
7
MT. VERNON
ROAD
S. W. S.
AVENUE
HYDRAULIC
Match exist'g
conc.
(Take Ties & Replace)
-0.203%
existing walk
5/6

Sta. 0+00 to 0+64.6 Construct 12'inf. Conc. S.R.S. Siphon

Rem. & Replace Existing Pavement

Rem. exist'g inlet Salvage Lid of Casting Plug exist'g lead

Const. 8'x6' Inlet Fl. out = 93.00 Install 18"x18" C.M.P.

Const. 2'x5' Inlet Fl. out = 91.85 Install 6'x18" R.C.P.

Const. Type (B) M.H. (5'ø) over exist'g 45° San. Fl. in = 90.00 Install 36"x84" C.P. Exist'g Fl. = 89.81 (verify)

Manhole Centered Between Siphons

Proposed 8"x6" Reinf. Conc. San. Fl. 91.85

Structural Conc. Sewer Siphon Conc. Shear Wall @ Manhole

Remove 36"x84" C.P. to Connect / New Siphon

Hydraulic Avenue

Vac. 20' Alley

Fl. Install 18"x8" C.I.P. to connect exist'g sewer from So.

Sta. 0+28.1 = Const. Conc. M.H. Fl. In & out = 87.85

Const. 2'x5' Inlet Fl. out = 93.00 Install 18"x48" C.M.P.

Orchard Avenue

Const. 2'x5' Inlet Fl. out = 93.00 Install 18"x18" C.M.P.

Install 18"x24" C.I.P. to connect exist'g sewer from So.

Sta. 6+05.5 = Const. Conc. M.H. Fl. out = 88.89

FIRST END OF PAVEMENT CONSTRUCTION

K-15 Highway

MT. VERNON ROAD

Rem. Exist'g Inlet Salvage Casting & Lid Plug Exist'g Lead

Process 8" Weld

Const. 2'x5' Inlet Fl. out = 94.70 Install 30"x18" R.C.P.

Exist'g M.H. Mt. Vernon

BM. 108.19 iron in thimble & Mt. Vernon Rd. & K-15 Highway
BM. 96.81 City Std. - S.W. Cor. Hydraulic & Mt. Vernon Rd. (14" dbcp)
BM. 98.83 S.E. Cor. Conc. Wk. in front of Liquor Store N.W. Cor. Mt. Vernon Rd. & Hydraulic.

Scale: 1" = 80'

⊗ = Plug exist'g leads

▶ = Thimble Clr. both Strs. take ties & replace.

"Pipe Detail" 42" C.M.P. (Min. Cover 2'-0") (Fully Coated)

Profile

Proposed 8"x6" R.C.D. Reducer (by Others)

Proposed Conc. Sewer Siphon

Conc. Sewer Siphon

Concrete Siphon

163.5' C.M.P. @ 10.10%
3'x1" Horiz. Mini-Super Span (52.0" Rise x 5'-0" Span x 5'-6")

377.4' C.M.P. @ 0.10%
3'x1" Horiz. Mini-Super Span (52.0" Rise x 5'-0" Span x 5'-6")

Proposed Conc. Shear Wall

Exist'g Top Front

Proposed ℄ Grade

Install 18"x8" C.I.P. 90.84 Fl.

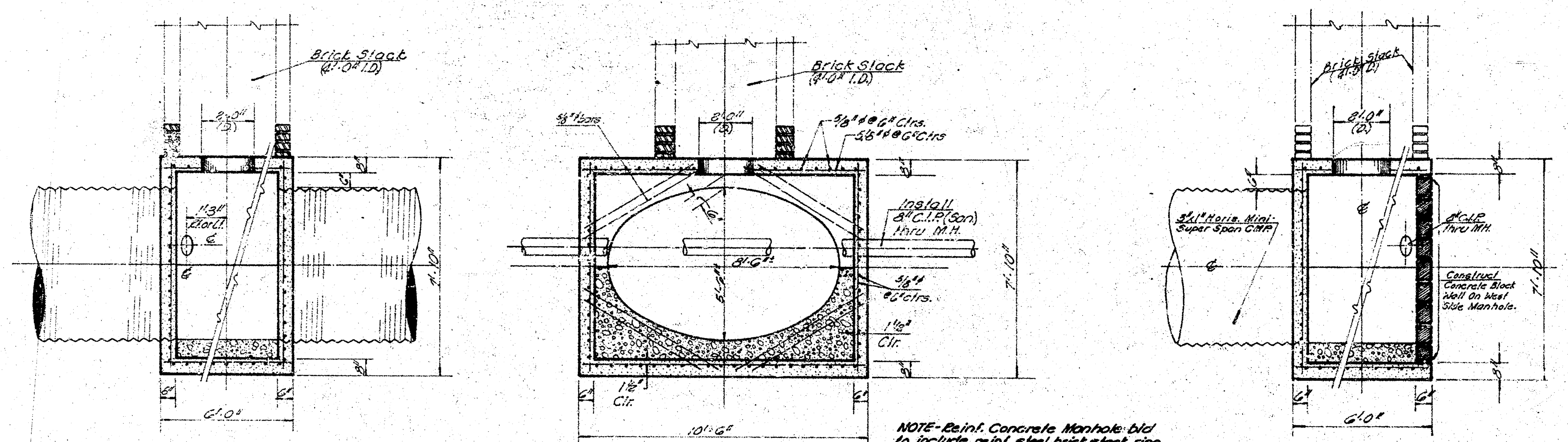
Install 18"x8" C.I.P. 90.45 Fl.

Exist'g Asphalt Pavement (See Detail)

Exist'g Asphalt Pavement (See Detail)

100
90
80

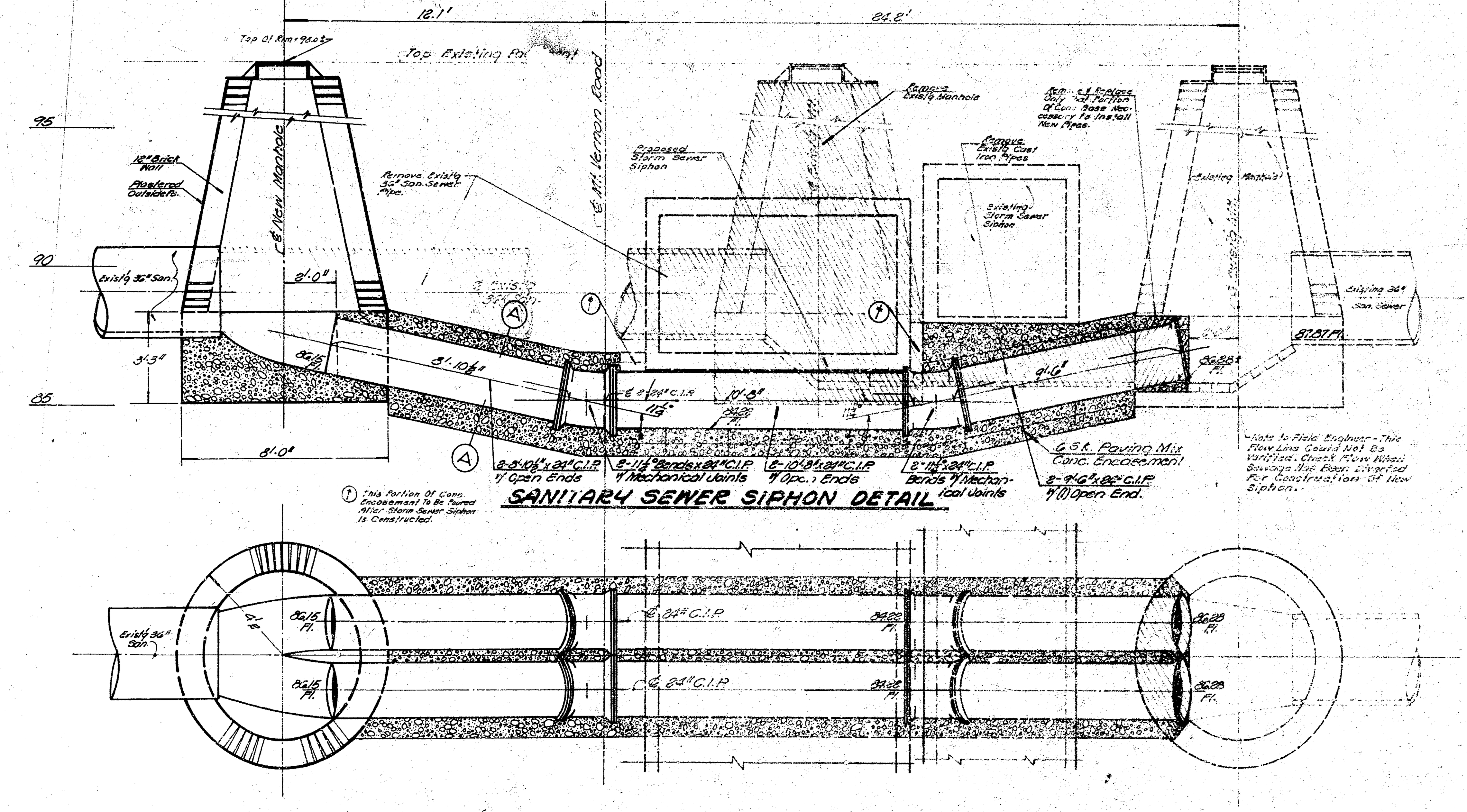
DRAINAGE IMPROVEMENT NO. 1 CONSTRUCTION OF 20' ALLEY - HYDRAULIC TO MT. VERNON AVENUE
CITY OF WICHITA, KANSAS
ENG. DEPT.
Engineer
Proj. No. 0065-57-1113
Date -



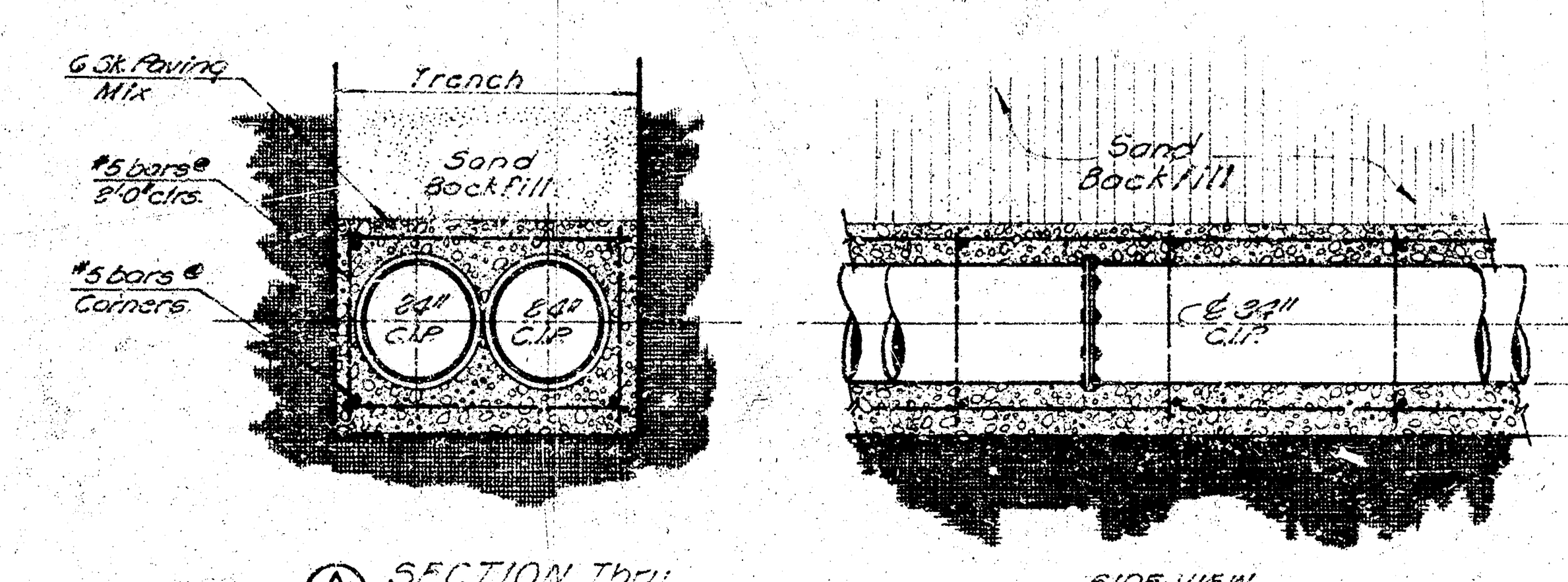
NOTE-Reinf. Concrete Manhole bid to include reinf. steel, brick stack, ring casting & lid and conc. blocks.

Note-This Section thru Concrete Manhole to be Typical only at MH. Sta. 6105.5.

REINFORCED CONCRETE MANHOLE DETAIL
(Sta. 2128.1 & Sta. 6105.5)



SANITARY SEWER SIPHON DETAIL



(A/A) SECTION Thru CONC. ENCASEMENT

SIDE VIEW

NOTE - Cast Iron Siphon to be encased with concrete. Lump Sum Bid Item for Siphon shall include the furnishing & placing the Cast Iron Pipe, all fittings, cast iron bends, concrete encasement, the rem. & repl. of a portion of existg MH. New Manhole to be bid for Separately.

Class III Ductile Iron Pipe will be considered equal in lieu of 24" Cast Iron Pipe.

The Existg Siphon to be removed will be bid as a "Lump Sum Bid" & shall include rem of MH. & existg 24" Cast Iron Pipes.

DRAINAGE in connection W/
Paving MT. VERNON ROAD - K-15 HWY
to W. Hydraulic Avenue.

STORM WATER SEWER SIPHON DETAILS

PLAN

ELEVATION

SECTION (A-A) THRU PIPE

SECTION (B-B)

SECTION (C-C)

SECTION (D-D)

TYPICAL SECTION

NOTE- All Steel to be field bent

NOTE- The Bid Item for Storm Sewer Siphon to be "Lump Sum Bid". It shall include the concrete, reinf steel, excavation, compacted backfill, removal of a portion of existing 45" pipe, MH and any other work or materials necessary to complete the Siphon.

SIPHON
Bill OF Materials

Item	Quantity	Unit
Class A-AE Concrete	64.1	C.Y.
Common Excavation	317.85	C.Y.
Compacted Backfill	76.34	C.Y.
5'-6" Manhole Block	1	ea.
Reinf. Steel	11,010	Lbs.
Class A Conc. (Seal Course)	3.0	C.Y.

GENERAL NOTES

CLASS A-E CONCRETE
SHALL BE USED THROUGHOUT CULVERT CONSTRUCTION. ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPECIFICATIONS.

EXCAVATION
ALL EARTH WORK SHALL BE CONSIDEEED AS "COMMON EXCAVATION" EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID ALL MATERIALS SUITABLE FOR BACK FILL TO REMAIN ON PROJECT.

BACK FILL
SHALL BE COMPACTED TO TOP OF NEW STRUCTURE. ALL BACKFILL AND EXCAVATION TO EXTEND TO (2') BEYOND WALLS, BACKFILL TO BE PNEUMATICALLY HAND TAMPED OR EQUAL AS DIRECTED BY FIELD ENGINEER. THIS WORK TO BE CONSIDEEED AS PART OF C.Y. COMPACTED FILL AND WILL BE INCLUDED IN "LUMP SUM BID"

SEAL COURSE
CONSISTING OF (3") CLASS (A) CONCRETE SHALL BE CONSTRUCTED ONLY WHERE SPECIFIED ON PLANS OR BY THE ENGINEER. NO REINFORCING STEEL SHALL BE PLACED UNTIL SEAL COURSE HAS GAINED SUFFICIENT STRENGTH TO PERMIT WORKING UPON IT WITHOUT INJURY.

THE ITEMS IN THE "BILL OF MATERIALS" ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR IS TO SATISFY HIMSELF TO THE QUANTITIES AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. THE CONTRACTOR WILL HAVE FULL RESPONSIBILITY FOR PROVIDING ALL MATERIALS SHOWN OR DETAILED PLANS NECESSARY TO COMPLETE THIS PROJECT.

DRAINAGE in connection W. Paving Mt. VERNON ROAD - K-15 Hwy. to Mt. Hydraulic Avenue.

11 10 5 (18)