

CITY OF JACKSONVILLE, FLORIDA

1958 SEWERAGE PROGRAM

TRUNK SEWERS — SECTION E

LIST OF DRAWINGS

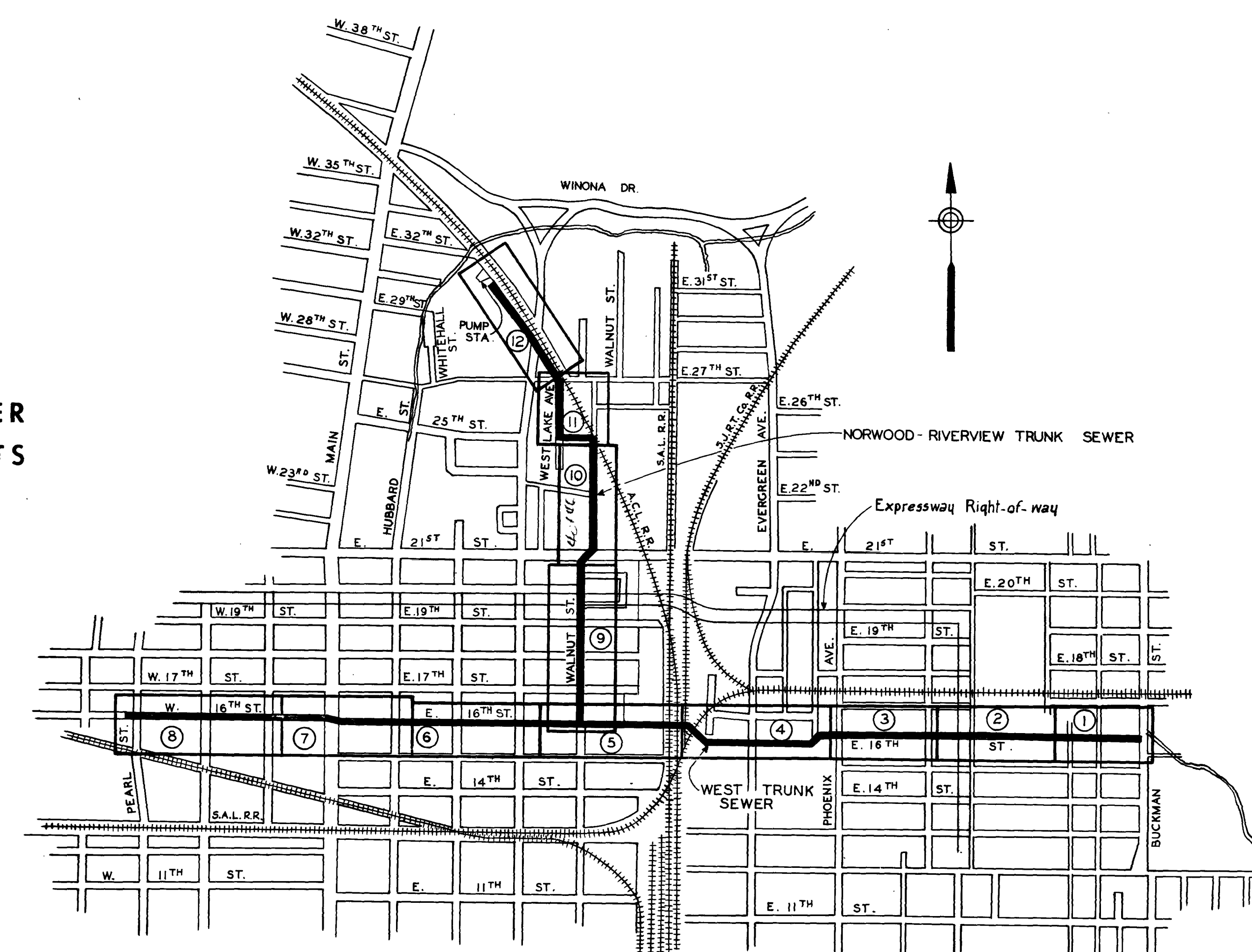
SHEET NO.	TITLE
52158 1	WEST TRUNK SEWER — STA. 5+00 to STA. 13+00
2	WEST TRUNK SEWER — STA. 13+00 to STA. 24+00
3	WEST TRUNK SEWER — STA. 24+00 to STA. 32+00
4	WEST TRUNK SEWER — STA. 32+00 to STA. 44+00
5	WEST TRUNK SEWER — STA. 44+00 to STA. 55+00
6	WEST TRUNK SEWER — STA. 55+00 to STA. 66+00
7	WEST TRUNK SEWER — STA. 66+00 to STA. 76+00
8	WEST TRUNK SEWER — STA. 76+00 to STA. 87+59.60
46145 9	NORWOOD - RIVERVIEW TRUNK SEWER — STA. 0+00 to STA. 12+00
10	NORWOOD - RIVERVIEW TRUNK SEWER — STA. 12+00 to STA. 22+00
11	NORWOOD - RIVERVIEW TRUNK SEWER — STA. 22+00 to STA. 30+00
12	NORWOOD - RIVERVIEW TRUNK SEWER — STA. 30+00 to STA. 40+46.75
13	SEWER CONNECTIONS AND MISCELLANEOUS DETAILS
14	JUNCTION CHAMBER — BUCKMAN ST. AND EAST 16th ST.
15	JUNCTION CHAMBER — WALNUT ST. AND EAST 16th ST.
16	JUNCTION CHAMBER — NEAR 32nd St.
17	ENLARGED PLAN AND DETAILS — WEST OF EVANS AVE.
18	STANDARD DETAILS — 1 (LEGEND FOR PLANS)
19	STANDARD DETAILS — 2

CONTRACT MES-15-7

LOUIS H. RITTER, COMMISSIONER
HIGHWAYS — SEWERS — AIRPORTS

BILL L. BRYANT
CITY ENGINEER

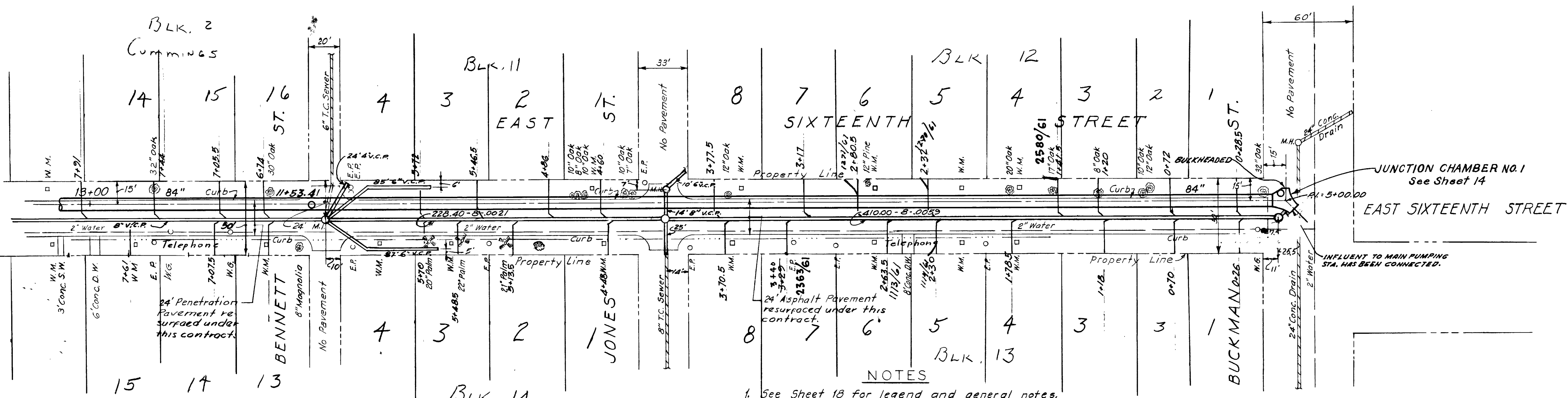
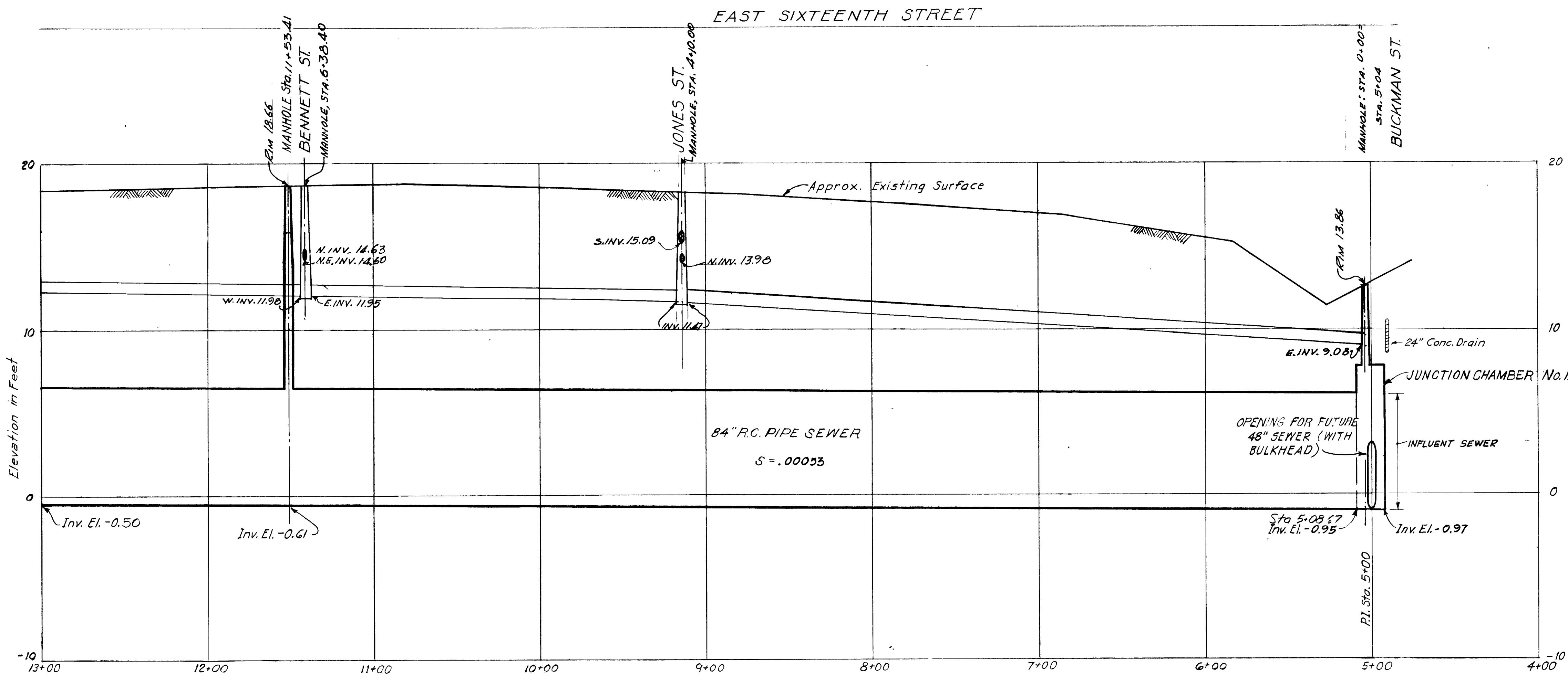
METCALF & EDDY
ENGINEERS
BOSTON, MASS.



KEY PLAN

14638

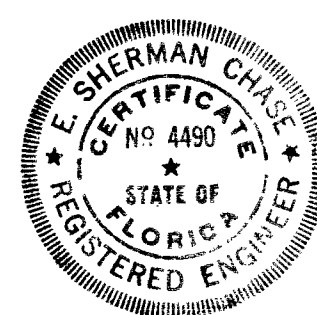
89961
H
56595



NOTES

1. See Sheet 18 for legend and general notes.
2. See Sheets 18 and 19 for standard details.
3. Street has been resurfaced with Dbl. Course Asphaltic Concrete with 6" Limerock Base.

DESIGNED *E.C.I.*
DRAWN *L.E.W.*
TRACED *L.E.W.*
CHECKED *E.C.I.*
PROJECT ENGINEER



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>E. Sherman Chase</i>	12/31/58
CITY ENGINEER	DATE
REG. PROF. ENGR. FLA. NO. 4490	
FOR METCALF & EDDY	
<i>E. Sherman Chase</i>	12/23/58
REG. PROF. ENGR. FLA. NO. 4490	DATE

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	12/14/58	AS BUILT	<i>C.E.L.</i>	<i>J.A.C.</i>

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS-SECTION E

WEST TRUNK SEWER

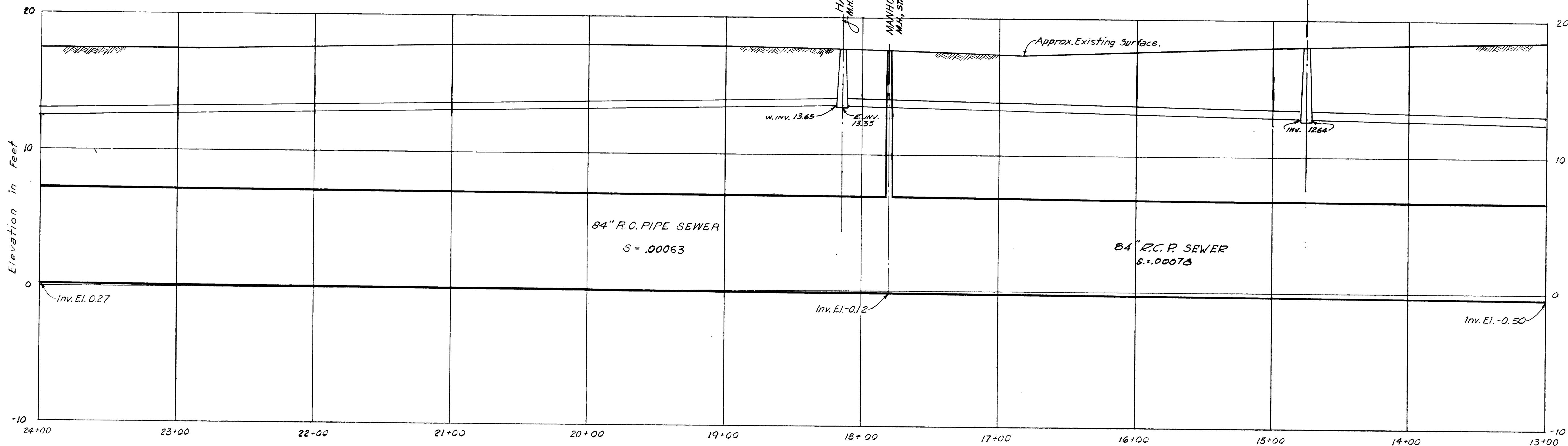
STA. 5+00 to STA. 13+00

SCALE HOR. 1"=40'
VER. 1"=4'

DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

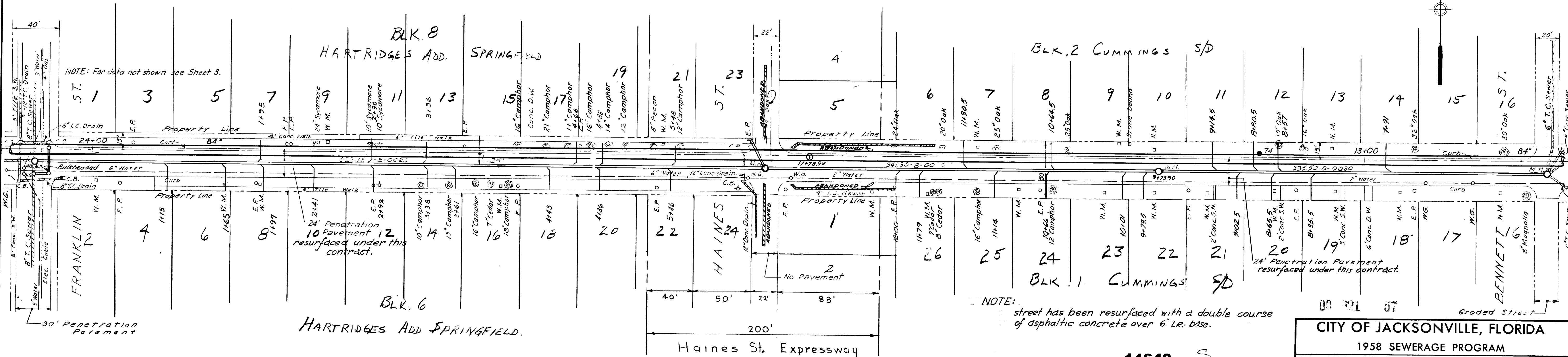
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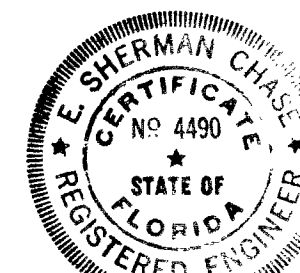
EAST

SIXTEENTH

STREET



DESIGNED E.C.I.
DRAWN B.B.A.
TRACED C.E.A.
CHECKED B.B.A.
PROJECT ENGINEER



APPROVED
FOR CITY OF JACKSONVILLE
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/58
FOR METCALF & EDDY
REG. PROF. ENGR. FLA. NO. 4490

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	12/23/58	AS BUILT	C.E.L.	J.A.G.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

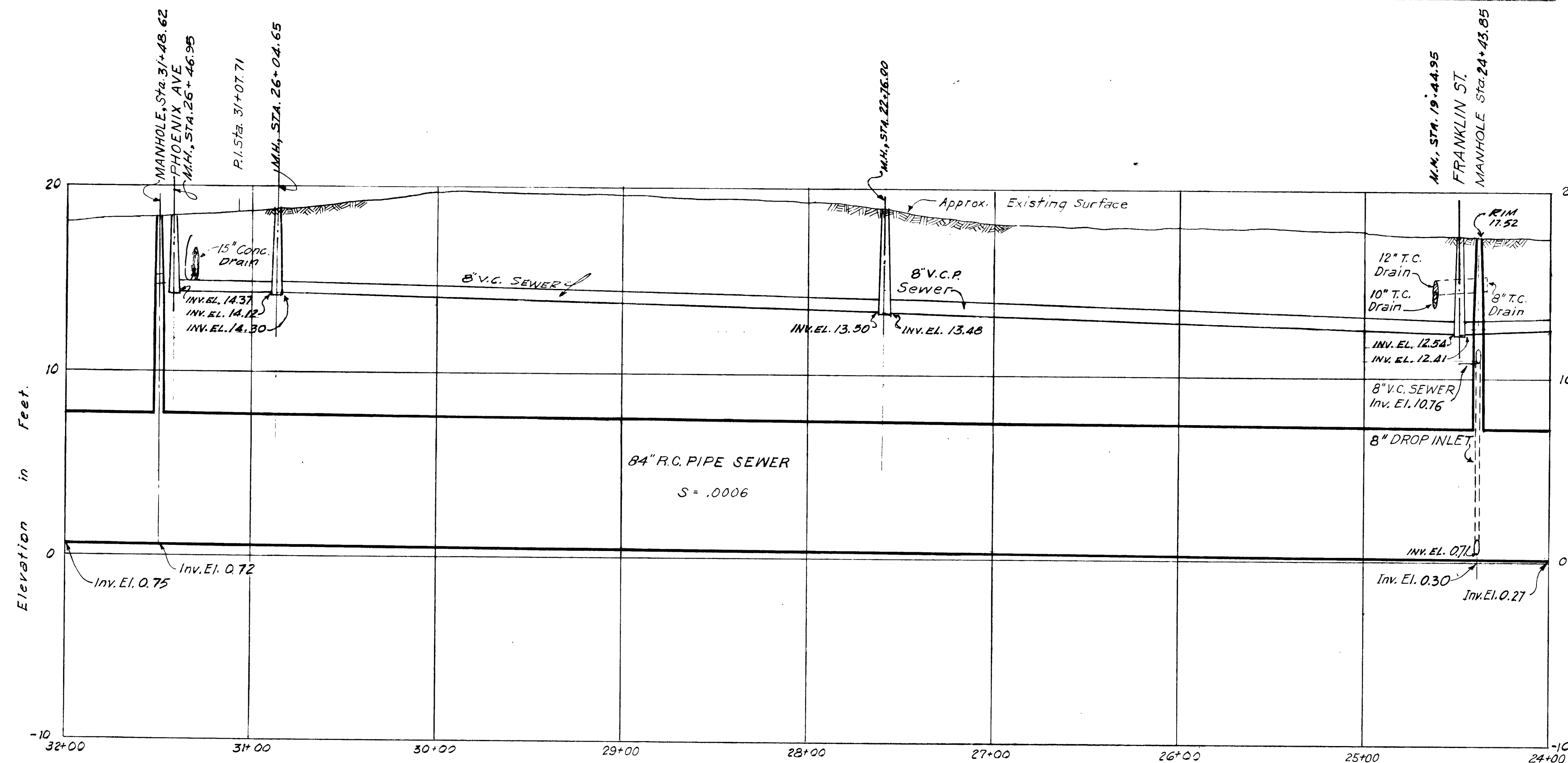
TRUNK SEWERS - SECTION E

WEST TRUNK SEWER

STA. 13+00 to STA. 24+00

SCALE HOR. 1"=40'
VER. 1"=4'
DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

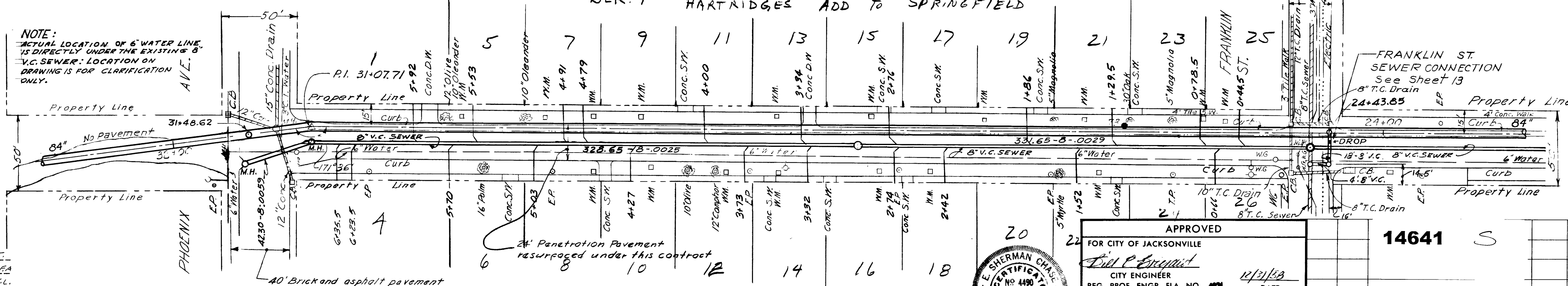


E A S T S I X T E E N T H S T R E E T

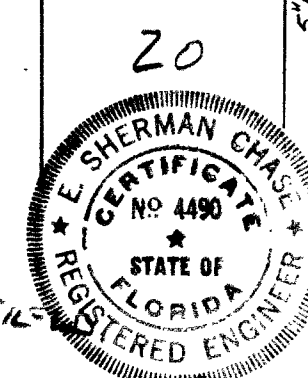
NOTE:
Street has been resurfaced with Dbl. Course
Asphaltic Concrete with 5" Gravel Base.

BLK. 7 HARTRIDGES ADD TO SPRINGFIELD

NOTE:
ACTUAL LOCATION OF 6" WATER LINE
IS DIRECTLY UNDER THE EXISTING 8"
V.C. SEWER. LOCATION ON
DRAWING IS FOR CLARIFICATION
ONLY.



DESIGNED EST
DRAWN RBA-SLA
TRACED RBA-SLA
CHECKED CB-EKL
PROJECT ENGINEER C. Mitchell



APPROVED
FOR CITY OF JACKSONVILLE
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 12/31/53
DATE
FOR METCALF & EDDY
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/53

14641 S

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	12/19/53	AS BUILT	GEL	J.A.C.

CITY OF JACKSONVILLE, FLORIDA

1958 SEWERAGE PROGRAM

TRUNK SEWERS - SECTION E

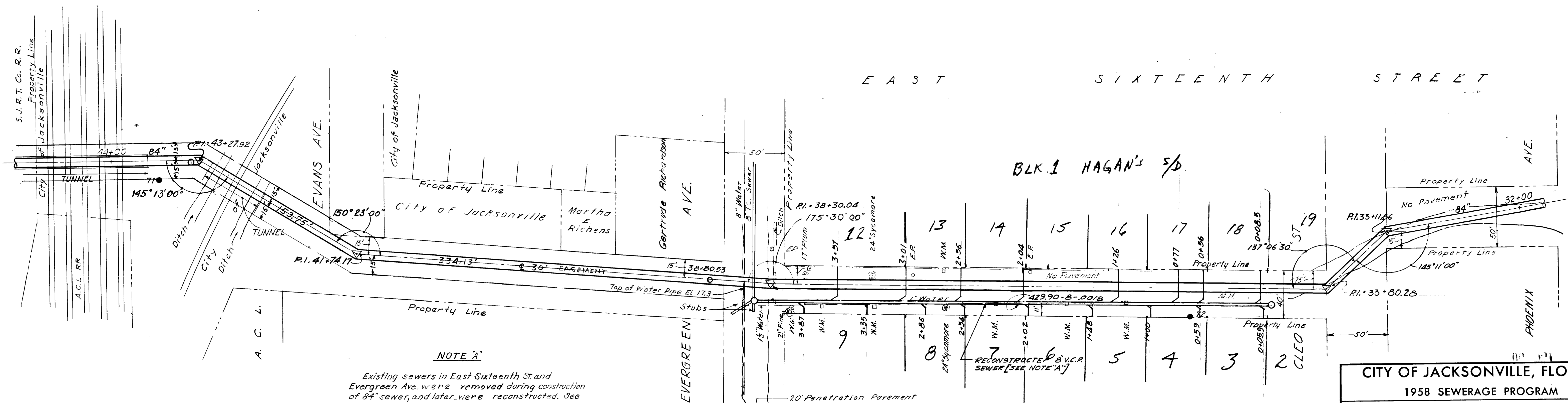
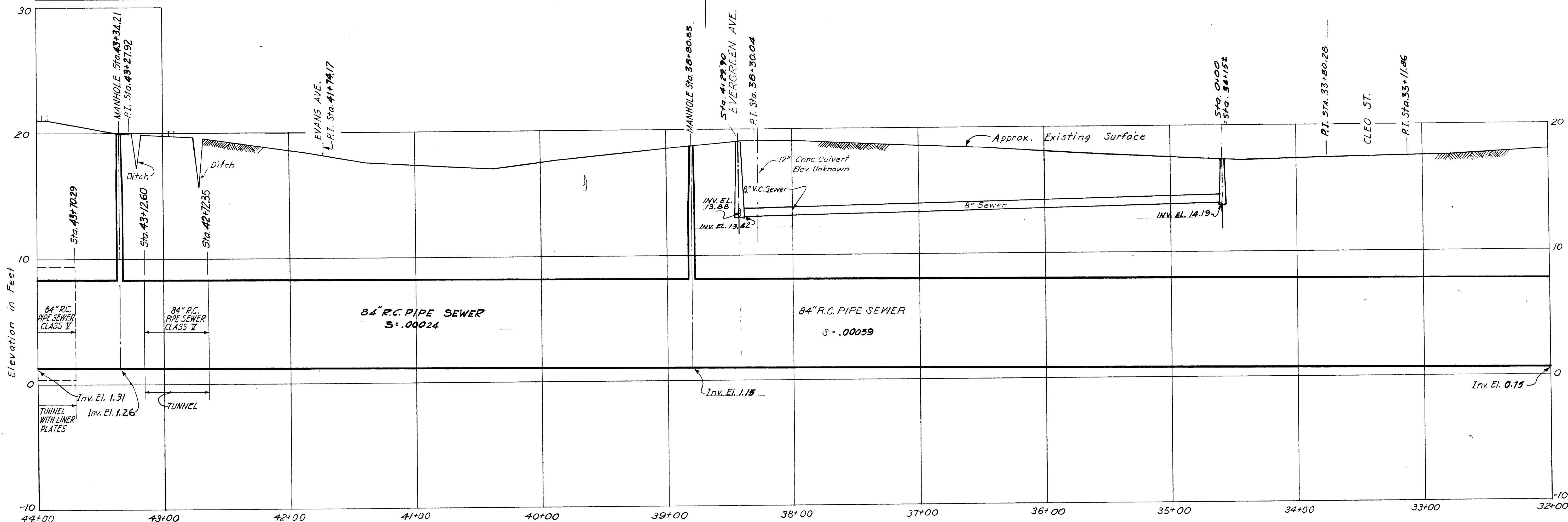
WEST TRUNK SEWER

STA. 24+00 to STA. 32+00

SCALE HOR. 1" = 40' VER. 1" = 4' DECEMBER 1953

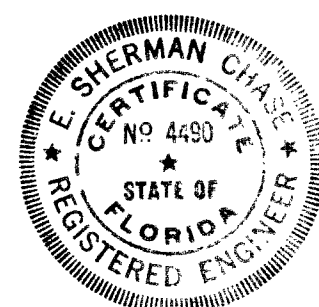
METCALF & EDDY
ENGINEERS
BOSTON, MASS.

36587
H
19643



NOTE A

Existing sewers in East Sixteenth St and Evergreen Ave. were removed during construction of 84" sewer, and later were reconstructed. See details on Sheet 13. Flow of sewage was maintained by means of approved temporary sewers.



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>Sherman Chase</i>	DATE 12/21/58
CITY ENGINEER	
REG. PROF. ENGR. FLA. NO. 4921	
FOR METCALF & EDDY	
<i>Sherman Chase</i>	DATE 12/23/58
REG. PROF. ENGR. FLA. NO. 4490	

14642 S

NO.	DATE	REVISION	CHK'D.	APPR'D.
1		AS BUILT	CE.L. J.A.C.	

CITY OF JACKSONVILLE, FLORIDA

1958 SEWERAGE PROGRAM

TRUNK SEWERS - SECTION E

WEST TRUNK SEWER

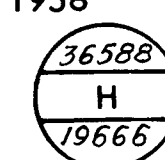
STA. 32+00 to STA. 44+00

SCALE HOR. 1"=40'

VER. 1"=4'

DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.



12961
H
68576

EAST SIXTEENTH STREET

EASEMENT

John H. Swisher & Son, Inc.

S.A.L. R.R.

S.J.R.T. R.R. City of Jacksonville

A.C.L. R.R.

Link Fence

Link Fence

Approx. Existing Surface

Steam Pipes -
2.15' Conc. Box

5" T.C. Sewer

NOTE:
TUNNEL SUPPORTS LOCATED AS FOLLOWS:
STA. 44+70.20 ~ 44+91.30 ~ 45+13.90 ~
45+36.85 ~ 45+42.80 ~ 45+50.40 ~ 45+56.45,
AND 46+11.08.

84" R.C. PIPE SEWER
S = .00083

84" R.C. PIPE SEWER CLASS II S = .00083

TUNNEL WITH LINER PLATES

Inv. El. 1.31

Chain

Chain

Chain

Chain

WALNUT ST.

RIM 19.16

MANHOLE Sta. 48+89.67

P.I. Sta. 48+41.49

P.I. Sta. 47+81.79

JUNCTION CHAMBER No. 2

72" R.C. PIPE SEWER
S = .00089

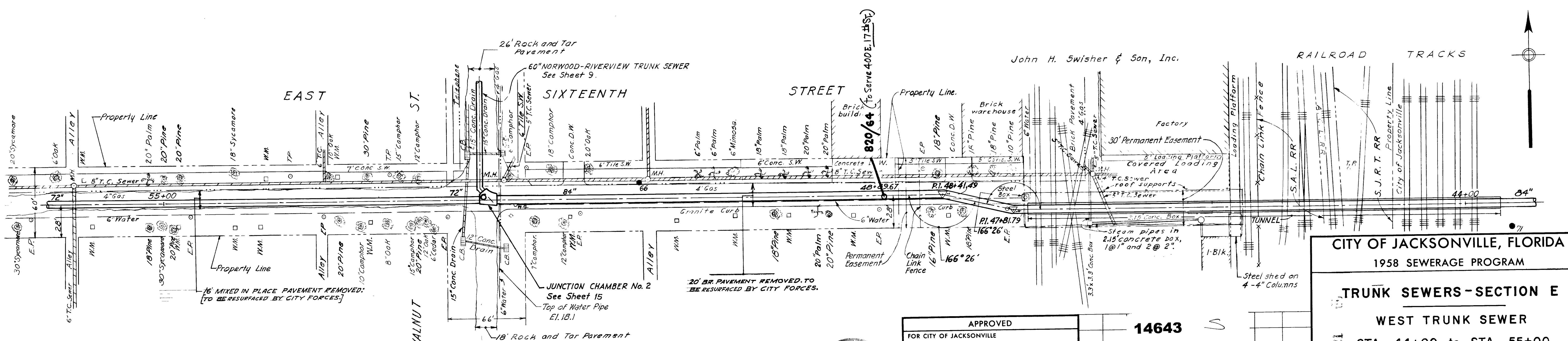
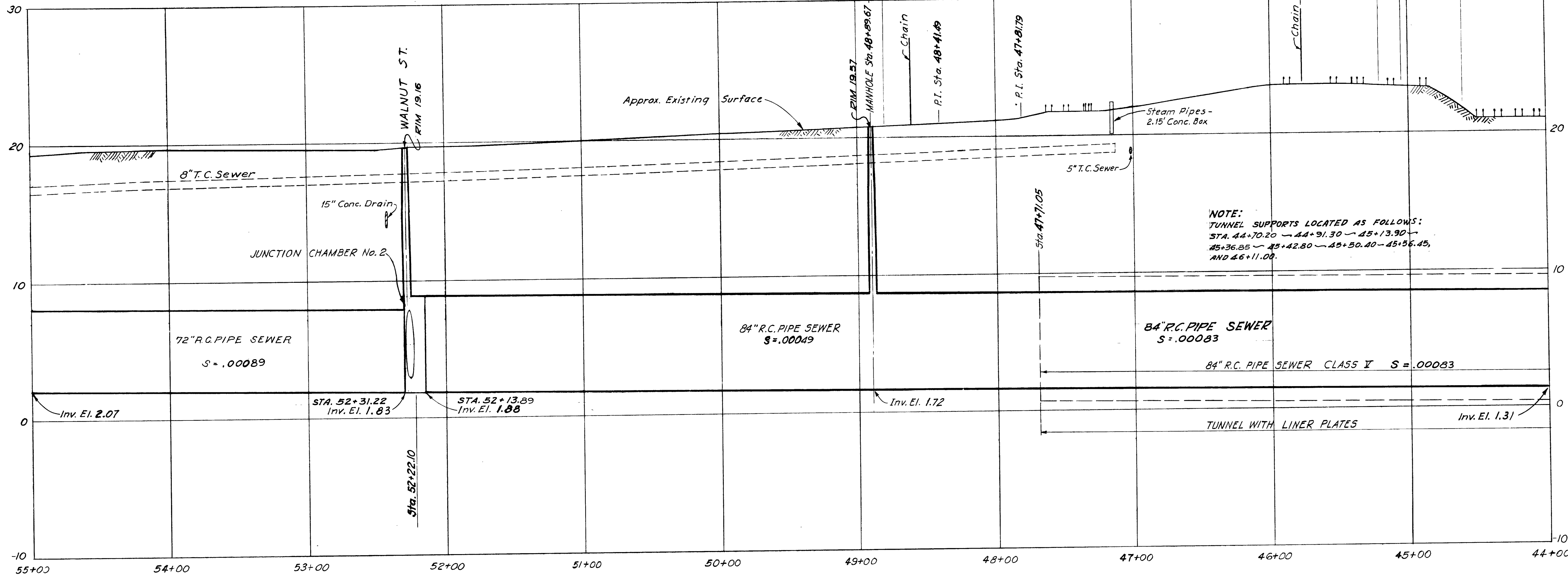
84" R.C. PIPE SEWER
S = .00049

Sta. 52+31.22
Inv. El. 1.83

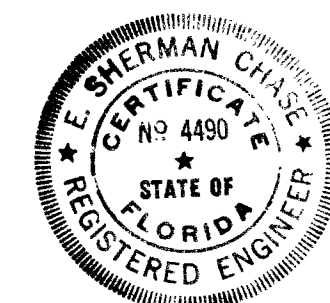
Sta. 52+13.89
Inv. El. 1.88

Inv. El. 1.72

Elevation in Feet



DESIGNED F.C.T.
DRAWN R.B.A./C.E.A.
TRACED R.B.A./C.E.A.
CHECKED C.B.I./E.R.L.
PROJECT ENGINEER



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>E. Sherman Chase</i>	
CITY ENGINEER	
REG. PROF. ENGR. FLA. NO. 4490	DATE 12/21/58
FOR METCALF & EDDY	
<i>E. Sherman Chase</i>	
REG. PROF. ENGR. FLA. NO. 4490	DATE 12/23/58

14643

NO.	DATE	REVISION	CHK'D.	APPR'D.
10/19/58	AS BUILT		C.E.L. J.A.C.	

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS - SECTION E

WEST TRUNK SEWER

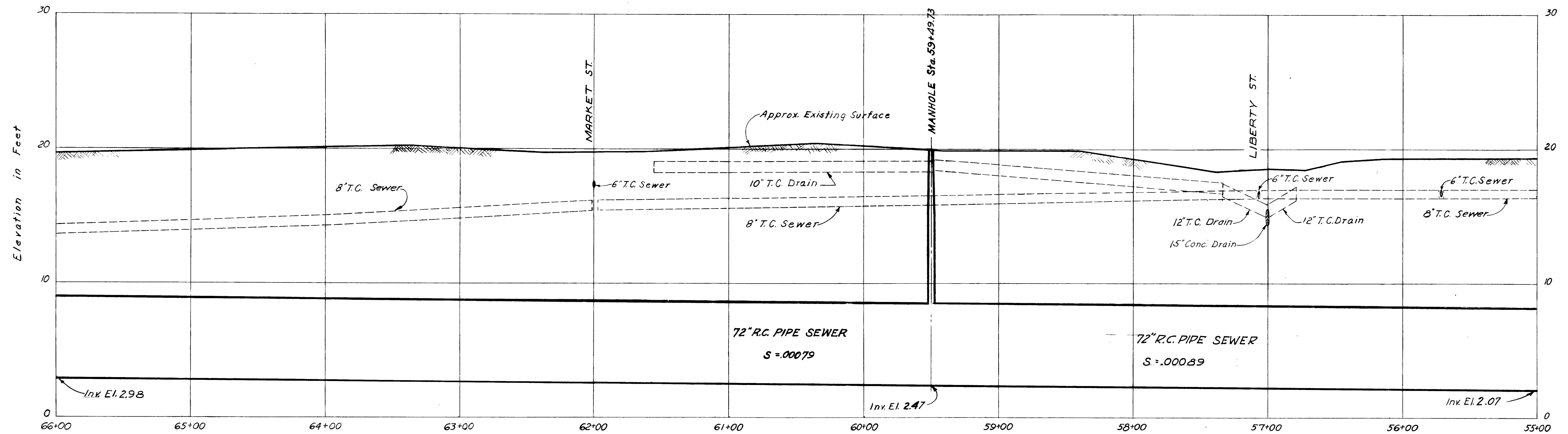
STA. 44+00 to STA. 55+00

SCALE HOR. 1" = 40' VER. 1" = 4'

DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

36589
H
19667

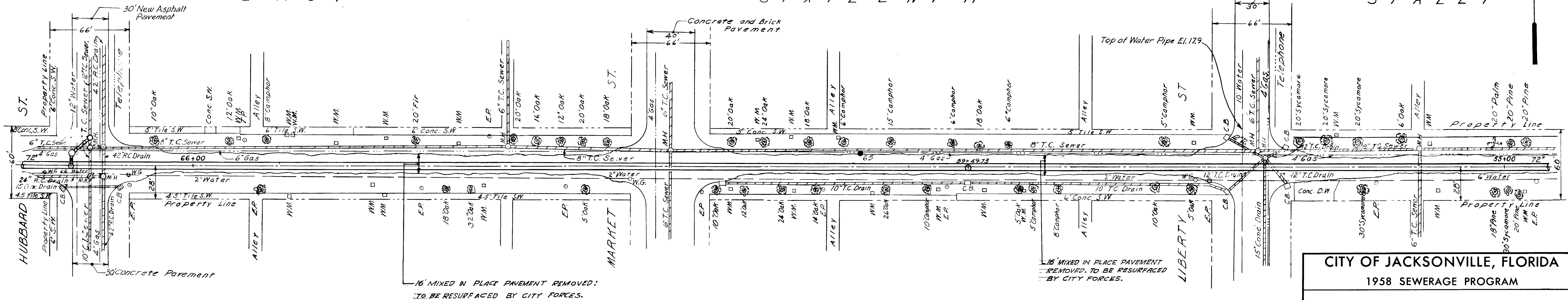


Note: For data not shown see Sheet 7.

E A S T

S I X T E E N T H

ement
S T R E E T



CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS-SECTION E

WEST TRUNK SEWER

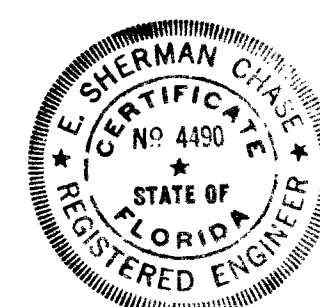
STA. 55+00 to STA. 66+00

SCALE HOR. 1" = 40'
VER. 1" = 4'

DECEMBER 1958

**METCALF & EDDY
ENGINEERS
BOSTON, MASS.**

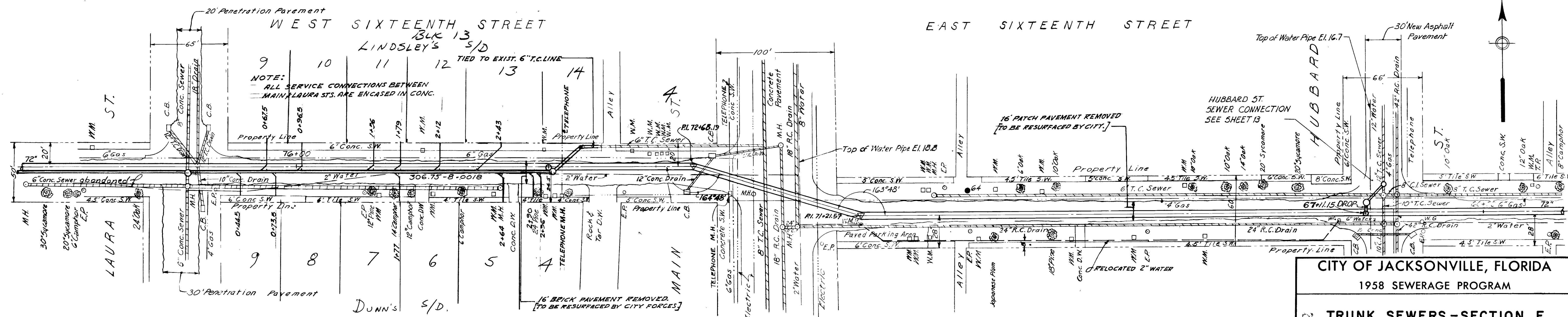
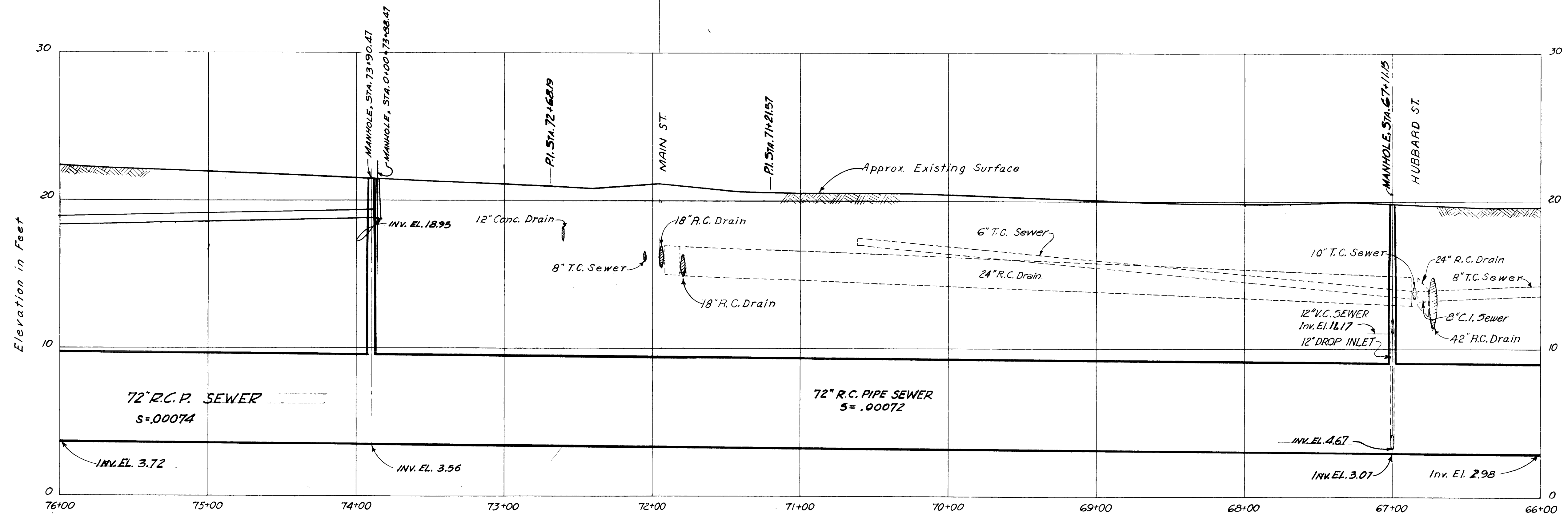
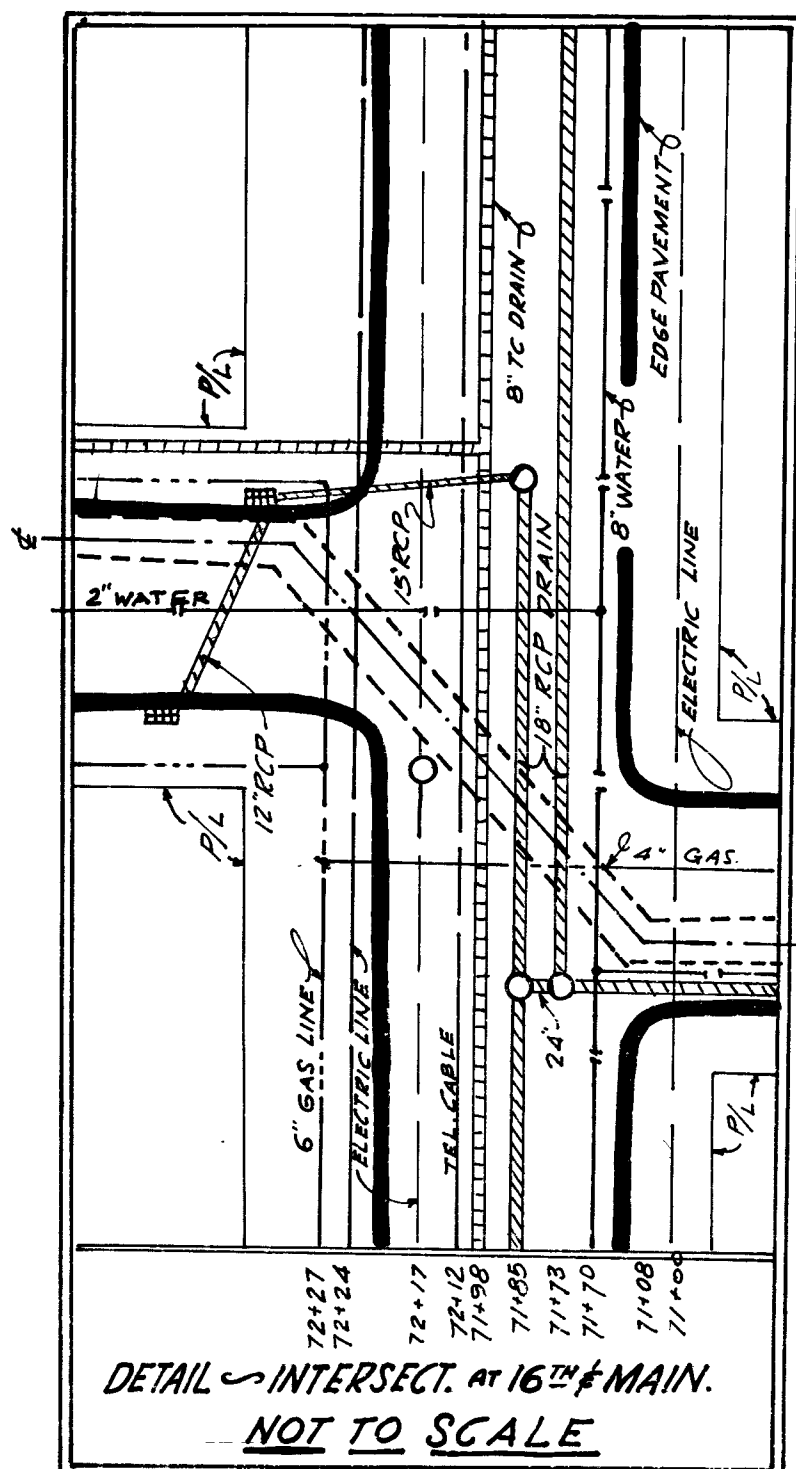
DESIGNED F.C.T.
DRAWN R.B.A.
TRACED W.S.B.
CHECKED C.B. & E.R.L.
A. Hatcher
PROJECT ENGINEER



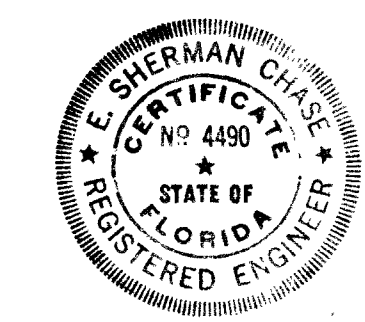
APPROVED	
FOR CITY OF JACKSONVILLE	
<i>Bill E. Bryant</i>	
CITY ENGINEER	12/31/58
REG. PROF. ENGR. FLA. NO. 4921	DATE
FOR METCALF & EDDY	
<i>P. S. Slemmon</i>	
REG. PROF. ENGR. FLA. NO. 4490	12/23/58
	DATE

14644

 10/18/60		AS BUILT	C.E.L.	J.A.C.
NO.	DATE	REVISION	CHK'D.	APPR'D.



DESIGNED F.C.T.
DRAWN R.B.A.
TRACED W.L.B.
CHECKED C.B.B.R.L.
PROJECT ENGINEER



APPROVED
FOR CITY OF JACKSONVILLE
Sherman Chase
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/31/58
FOR METCALF & EDDY

14645	S
NO.	DATE
14/46	AS BUILT
NO.	DATE
12/22/58	DATE
CHK'D.	APPR'D.
C.E.L.	J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS - SECTION E

WEST TRUNK SEWER

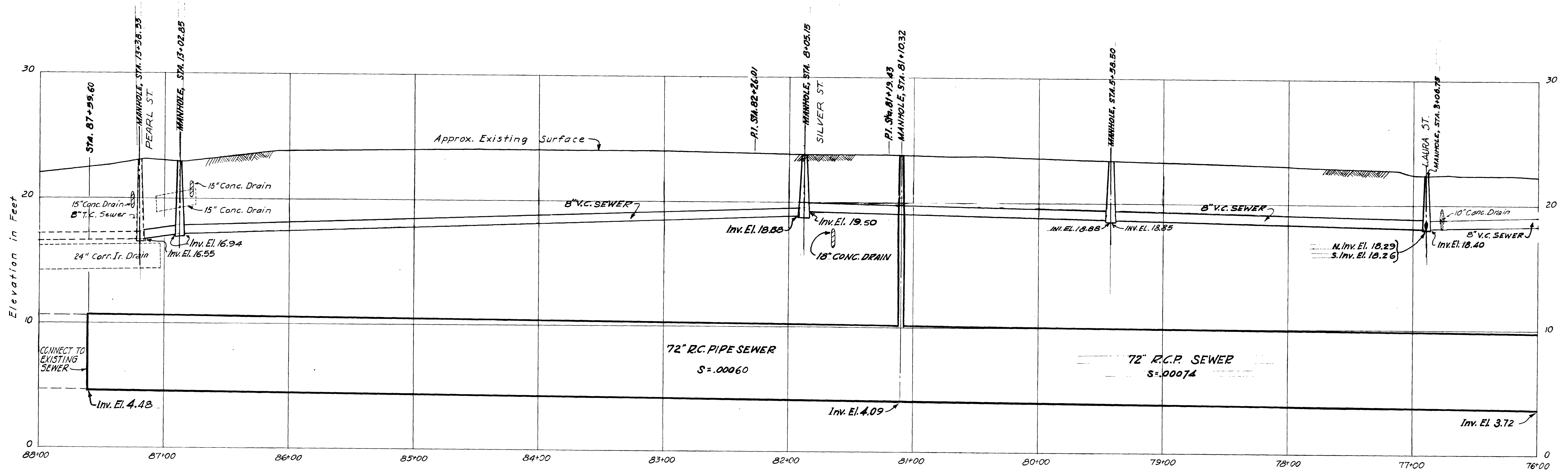
STA. 66+00 to STA. 76+00

SCALE HOR. 1"=40'
VER. 1"=4'

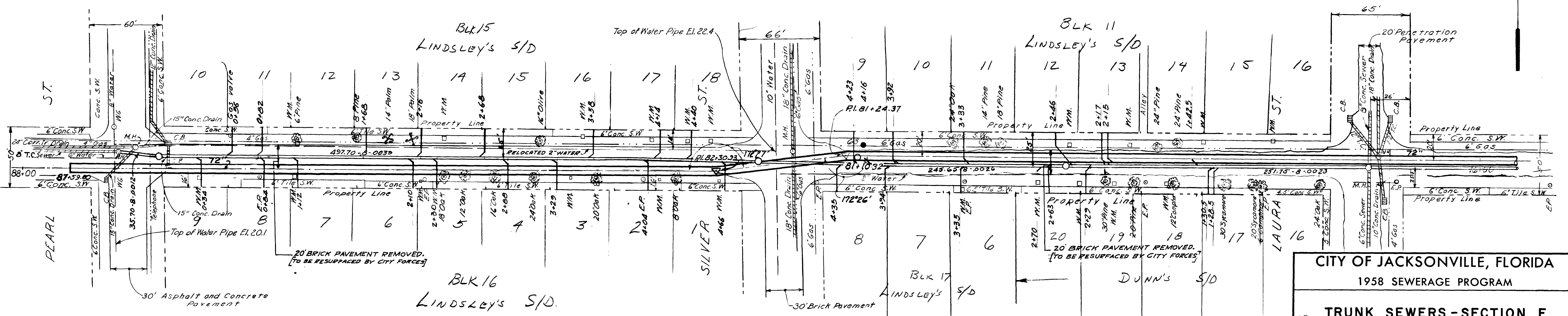
DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

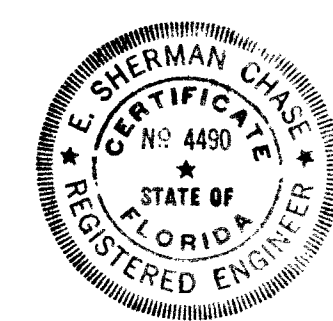
36591
H
19669



WEST SIXTEENTH STREET



DESIGNED R.C.T.
DRAWN L.E.W.
TRACED R.B.A.
CHECKED C.B.E.E.R.
PROJECT ENGINEER



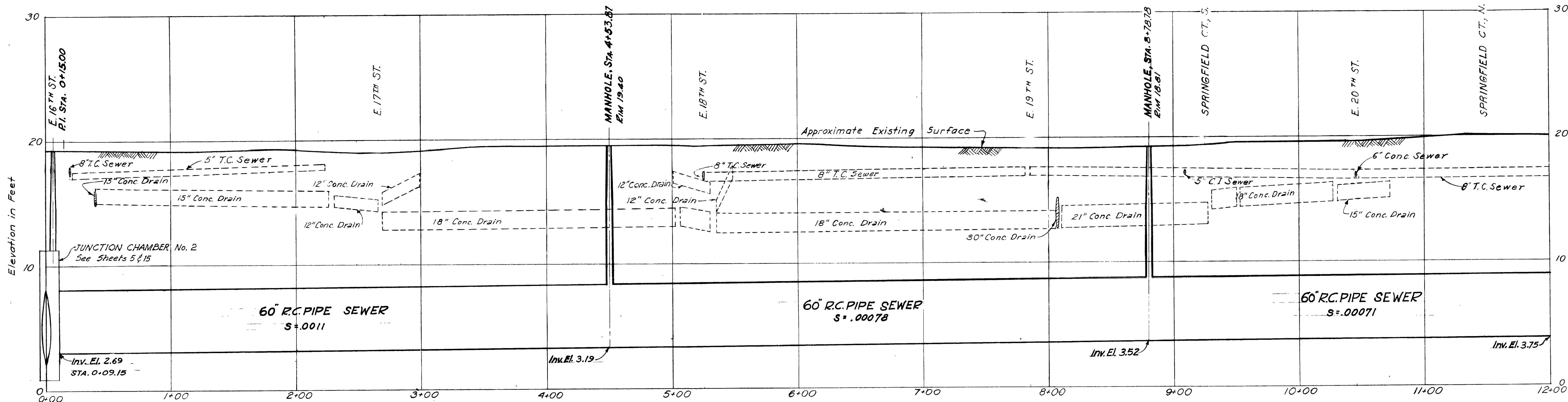
APPROVED
FOR CITY OF JACKSONVILLE
Sherman Chase
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4921
FOR METCALF & EDDY
12/23/58
DATE

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	10/18/60	AS BUILT		G.E.L. J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM
TRUNK SEWERS-SECTION E
WEST TRUNK SEWER
STA. 76+00 to STA. 87+59.60
SCALE HOR. 1"=40'
VER. 1"=4'
DECEMBER 1958
METCALF & EDDY
ENGINEERS
BOSTON, MASS.

14647
H
66593

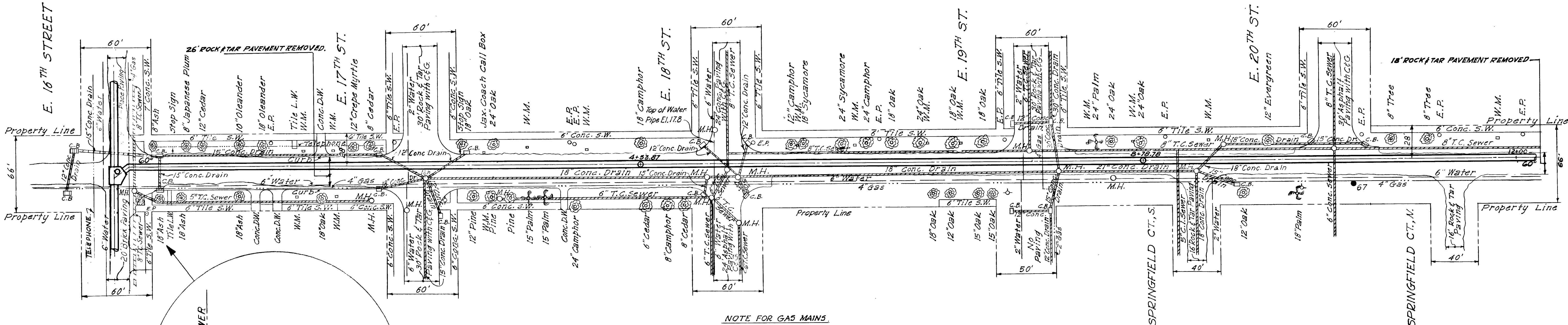
WALNUT STREET



NOTE: Station 0+00 on Norwood Riverview
Trunk Sewer equals Station 52+22.10
on West Trunk Sewer.

WALNUT

STREET



NOTES

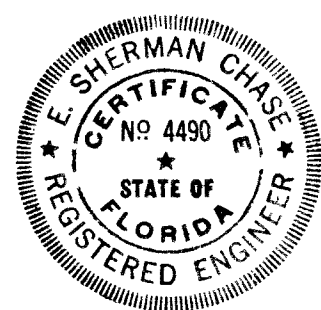
1. See Sheet 18 for legend and general notes.
2. See Sheets 18 and 19 for standard details.
3. Street has been resurfaced with double course
Asphaltic concrete with 6" limerock base.

NOTE FOR GAS MAINS

Jacksonville Gas Corp. map indicates the
following Gas mains that are not shown on
this drawing:-
1. 4" main on 17th St.
2. 4" main on 18th St. W. of Walnut St.
3. 2" main on 18th St. E. of Walnut St.
4. 4" main on 20th St.
5. 2" main in Springfield Court area.

14647

DESIGNED F.C.T.
DRAWN W.L.D.
TRACED W.L.D.
CHECKED C.B.
PROJECT ENGINEER



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>C. Sherman Chase</i>	12/21/58
CITY ENGINEER	DATE
REG. PROF. ENGR. FLA. NO. 4490	
FOR METCALF & EDDY	
<i>C. Sherman Chase</i>	12/23/58
REG. PROF. ENGR. FLA. NO. 4490	DATE

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	12/21/58	AS BUILT	C.E.L.	J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS-SECTION E
NORWOOD-RIVERVIEW TRUNK SEWER

STA. 0+00 to STA. 12+00

SCALE HOR. 1"=40'
VER. 1"=4'

DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

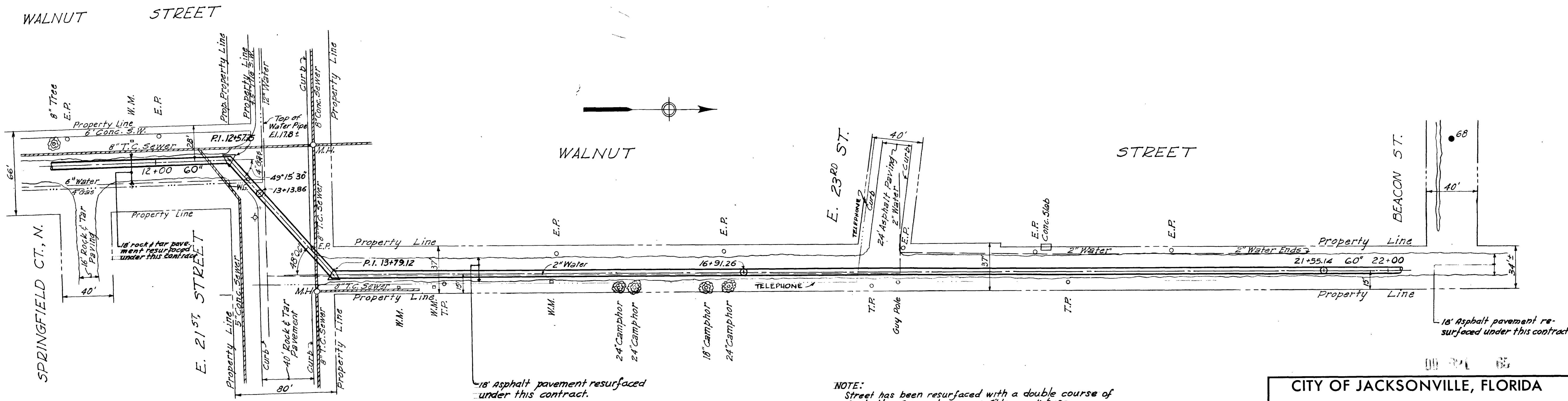
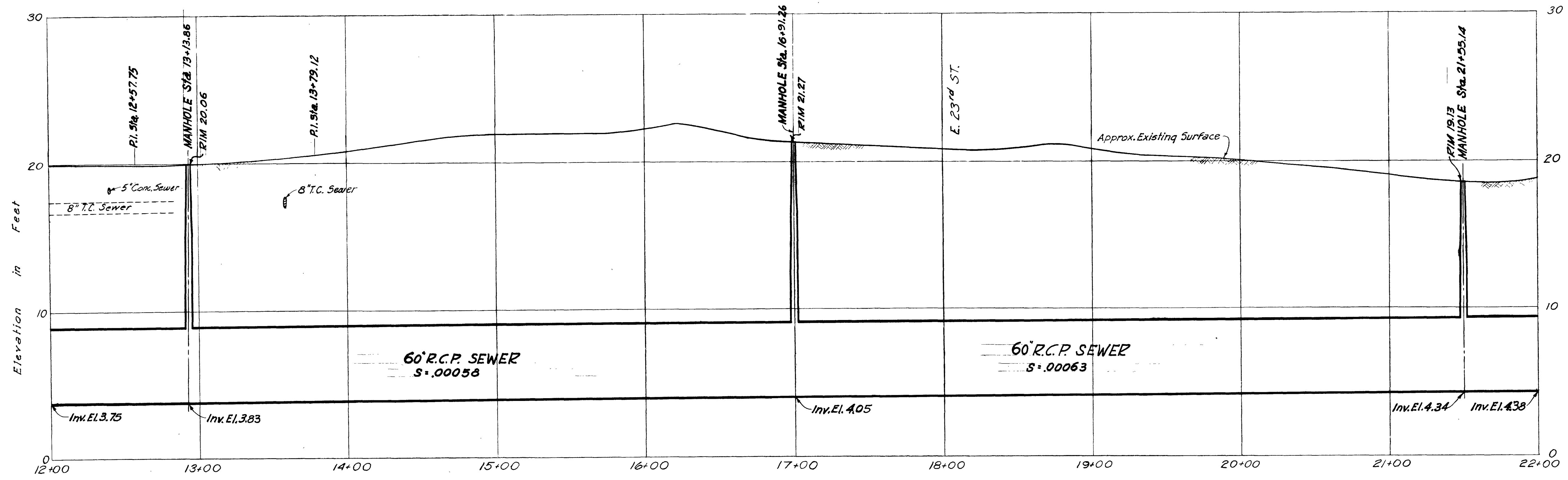
14647
H
66593

21961
H
+6596

WALNUT STREET

E. 21ST STREET

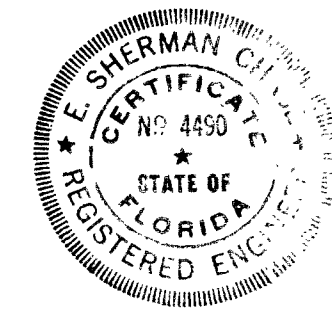
WALNUT STREET



NOTE:
Street has been resurfaced with a double course of
Asphaltic Concrete over a 6\"/>

14648 S

DESIGNED *E.C.T.*
DRAWN *W.L.D.*
TRACED *E.L.L.*
CHECKED *E.L.L.*
PROJECT ENGINEER



APPROVED
FOR CITY OF JACKSONVILLE
Sherman C. Eddy
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/58
FOR METCALF & EDDY
Sherman C. Eddy
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/58

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	12/23/58	AS BUILT	C.E.L.	J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

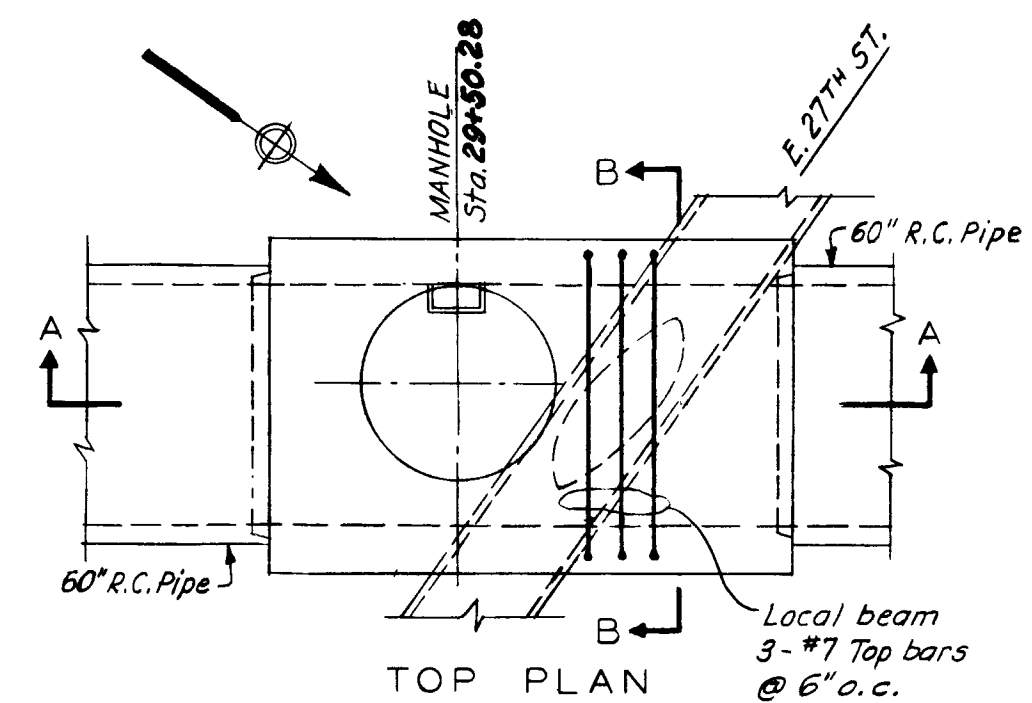
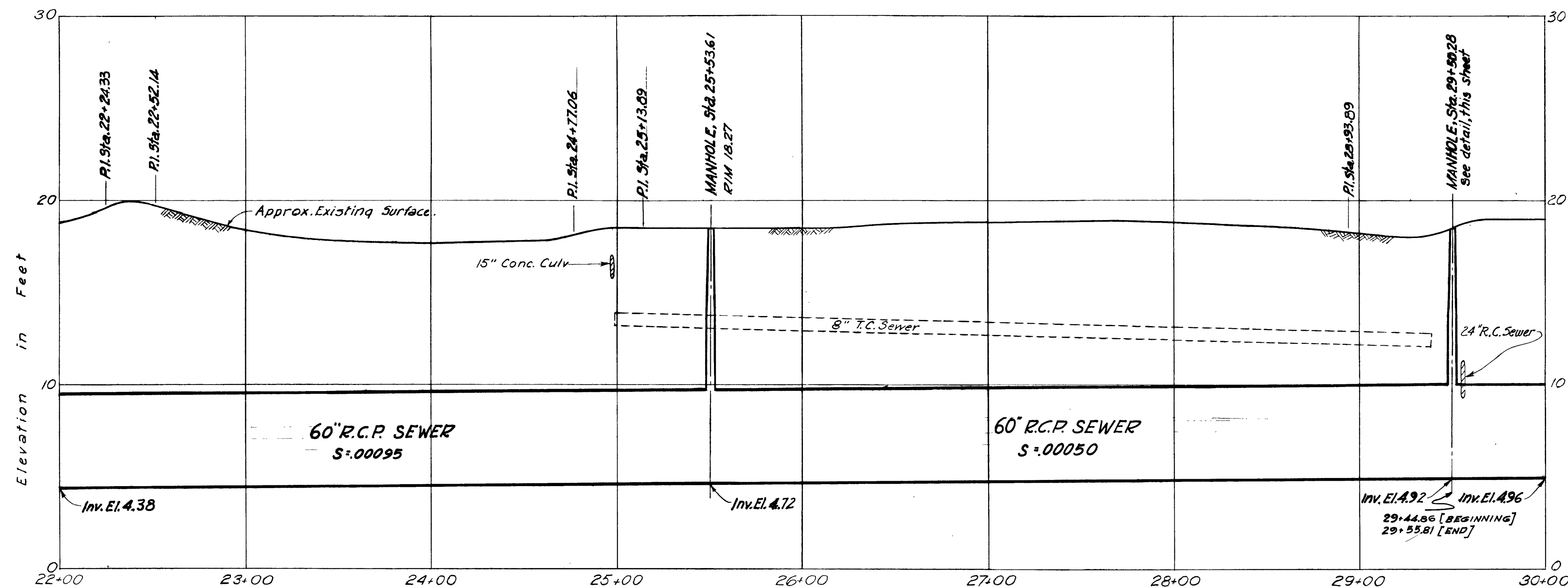
TRUNK SEWERS - SECTION E
NORWOOD-RIVERVIEW TRUNK SEWER
STA. 12+00 to STA. 22+00

SCALE HOR. 1"=40'
VER. 1"=4'

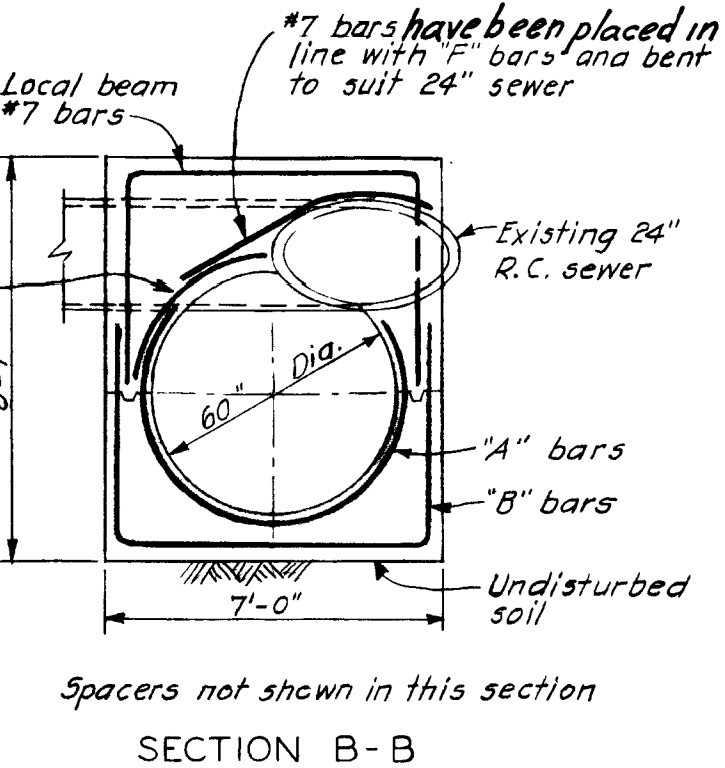
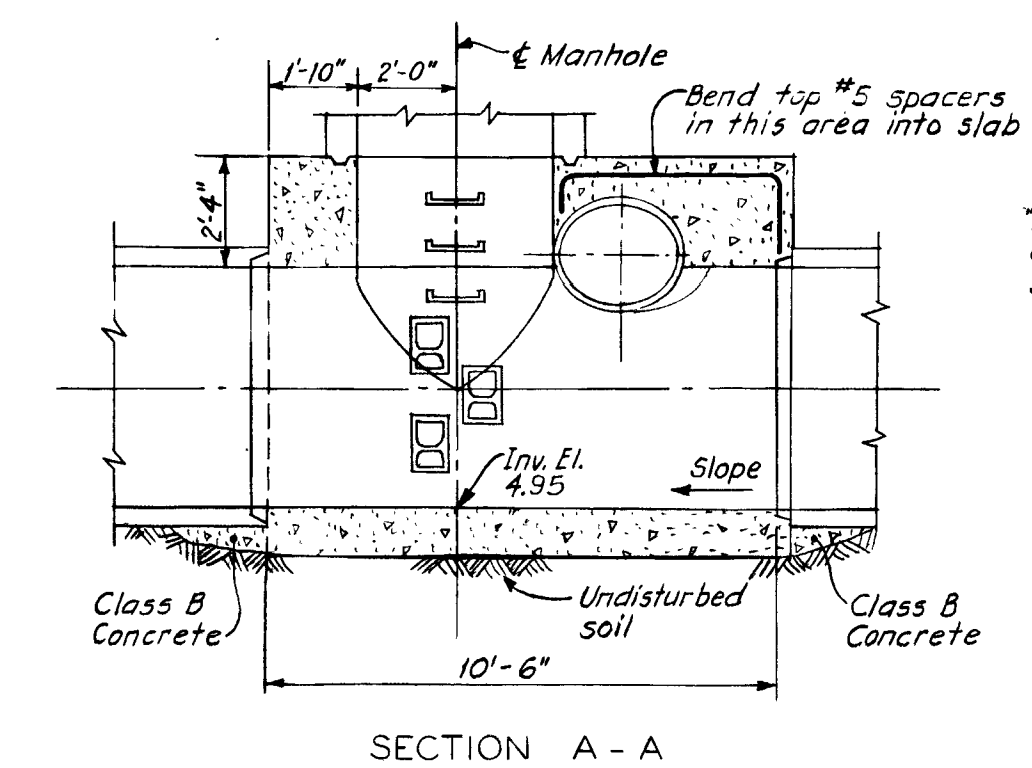
DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

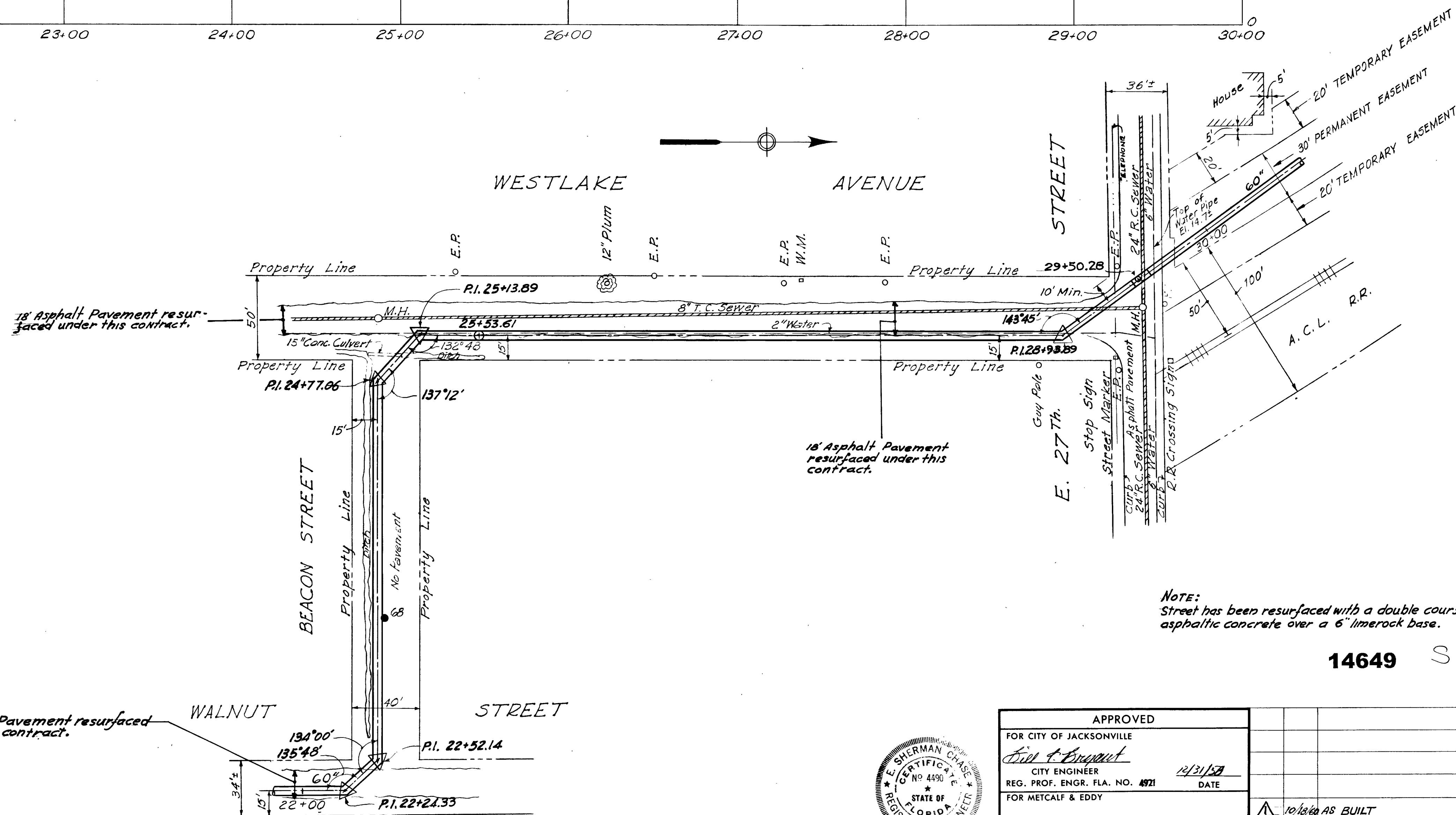
36594
H
19672



NOTE
Normal reinforcement as shown on Standard Details - 2, for standard manhole base for 60\"/>



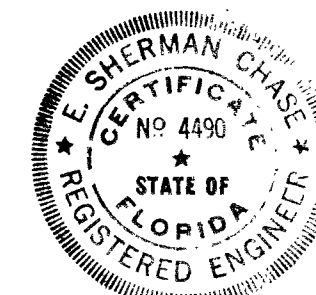
MANHOLE AT STA. 29+50.28
WESTLAKE AVE. AND EAST 27th STREET
SCALE: 1/4" = 1'-0"



NOTE:
Street has been resurfaced with a double course of asphaltic concrete over a 6\"/>

14649 S

DESIGNED E.C.T.
DRAWN W.L.R.
TRACED W.L.R.
CHECKED E.C.T.
PROJECT ENGINEER



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>Bill E. Egan</i>	12/31/57
CITY ENGINEER	DATE
REG. PROF. ENGR. FLA. NO. 4871	
FOR METCALF & EDDY	
<i>Sherman Chase</i>	12/23/58
REG. PROF. ENGR. FLA. NO. 4490	DATE

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	10/13/60	AS BUILT	C.E.L.	J.A.C.

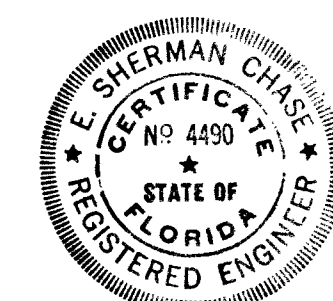
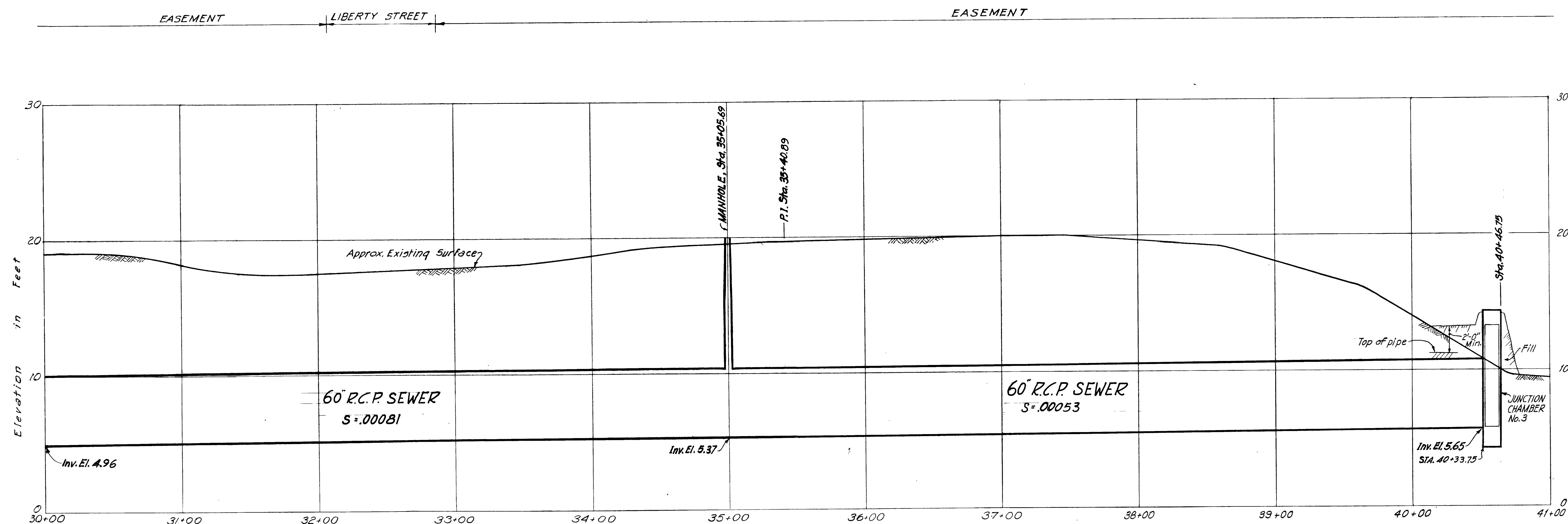
CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS - SECTION E

NORWOOD-RIVERVIEW TRUNK SEWER

STA. 22+00 to STA. 30+00

SCALE HOR. 1" = 40'
VER. 1" = 4'
EXCEPT AS SHOWN
DECEMBER 1958
METCALF & EDDY
ENGINEERS
BOSTON, MASS.

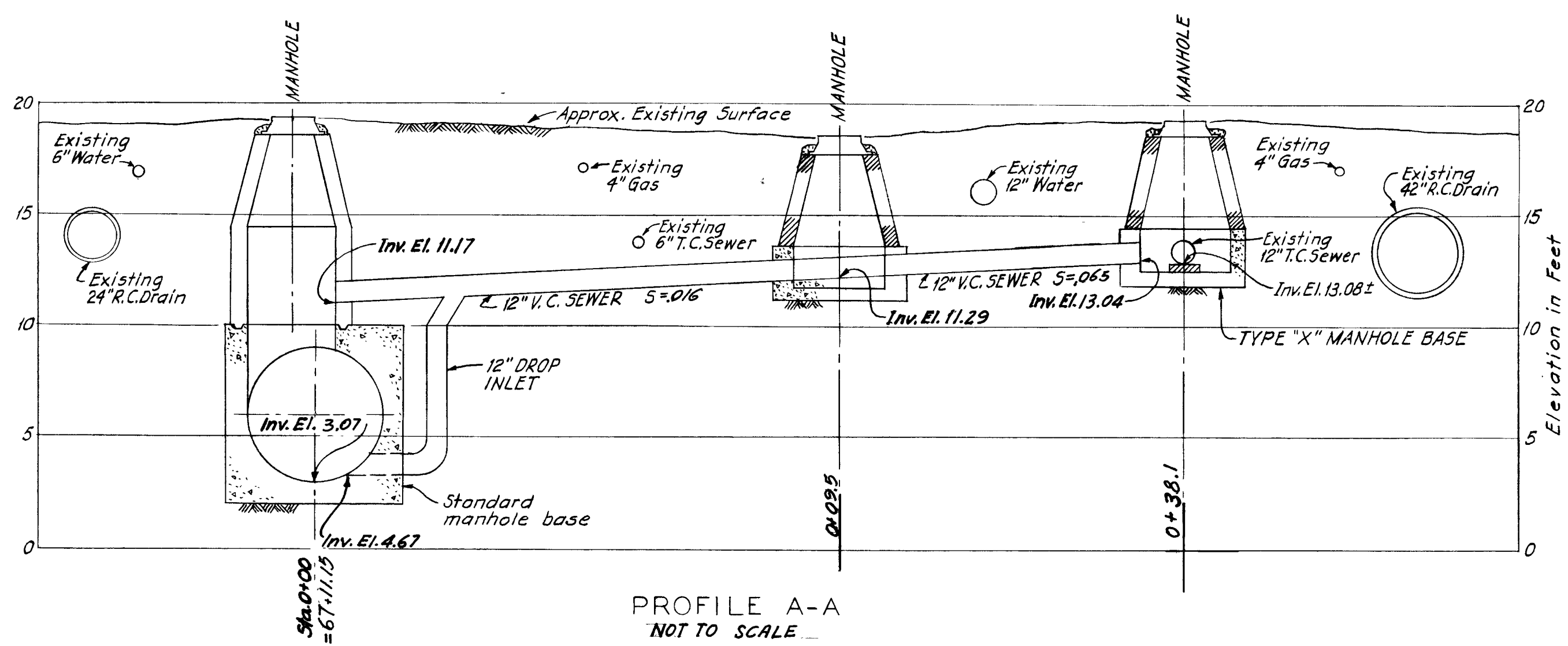
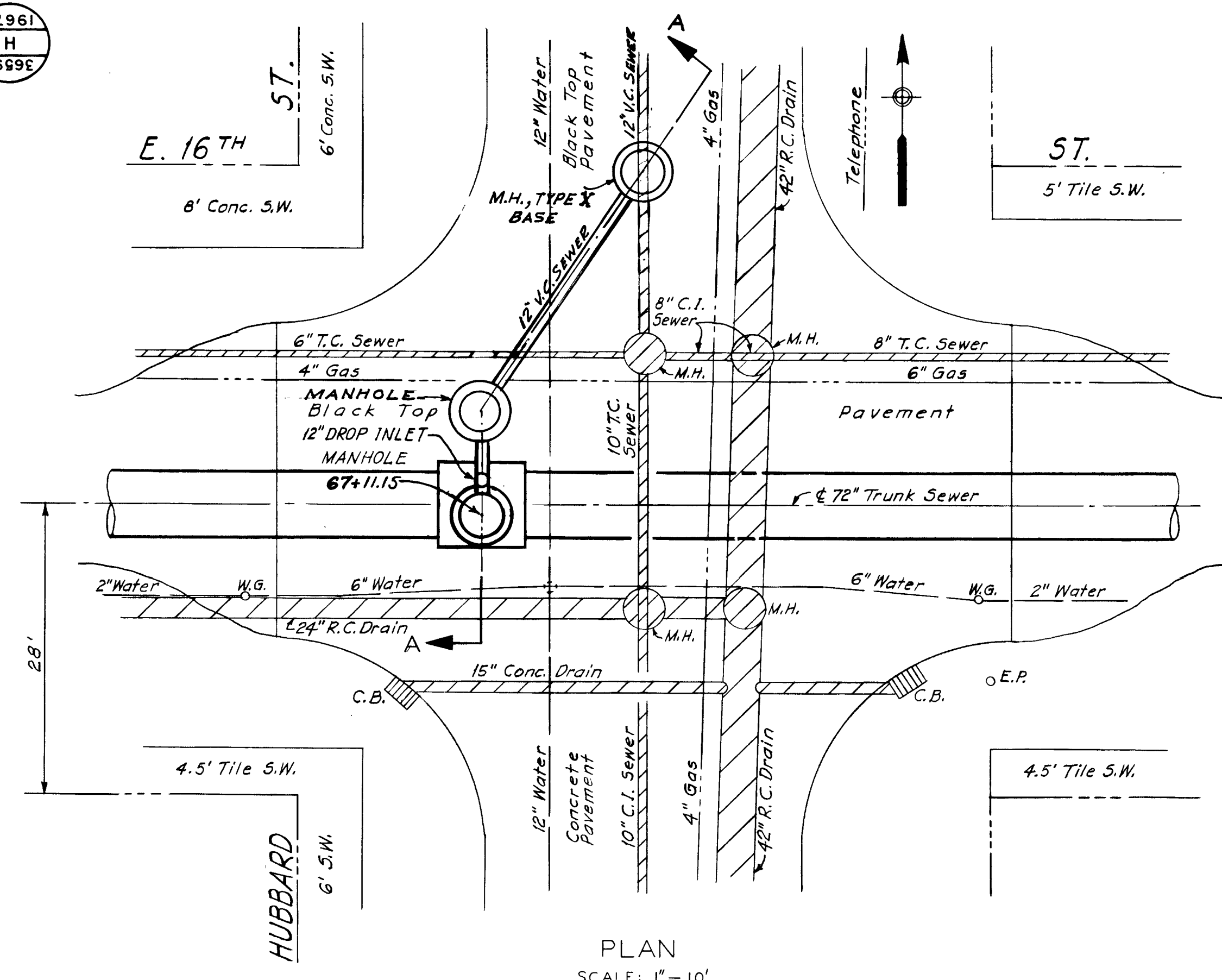
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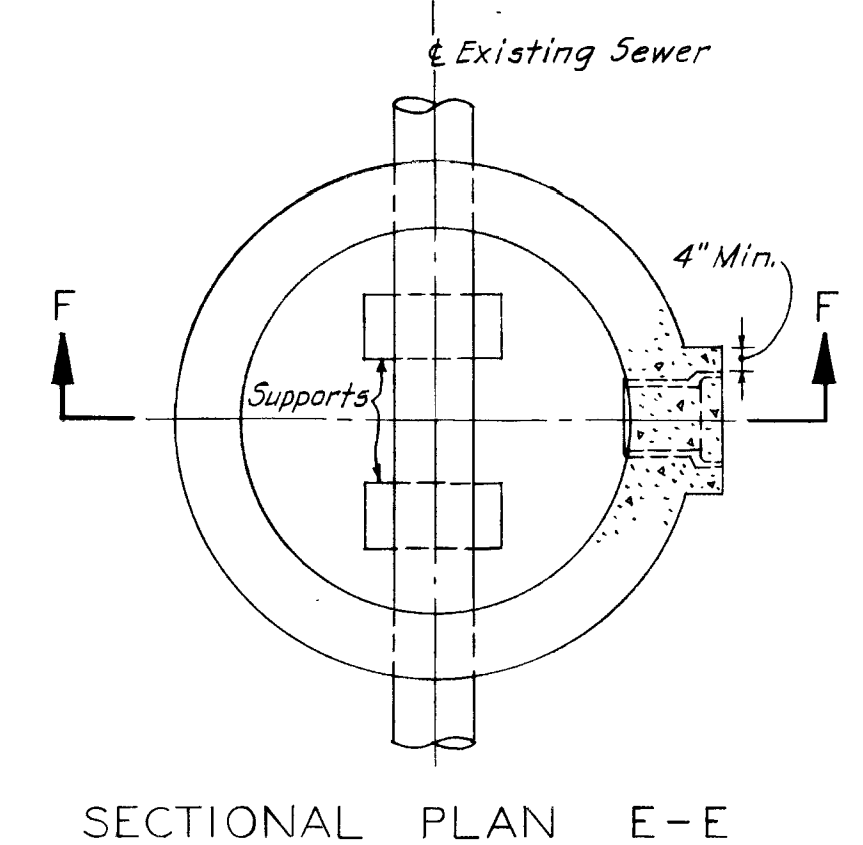
SHEET 12 OF 19

DESIGNED F.C.T
DRAWN W.L.D L.E.W
TRACED W.L.D S.C.
CHECKED G.M.
G. Pitchay
PROJECT ENGINEER

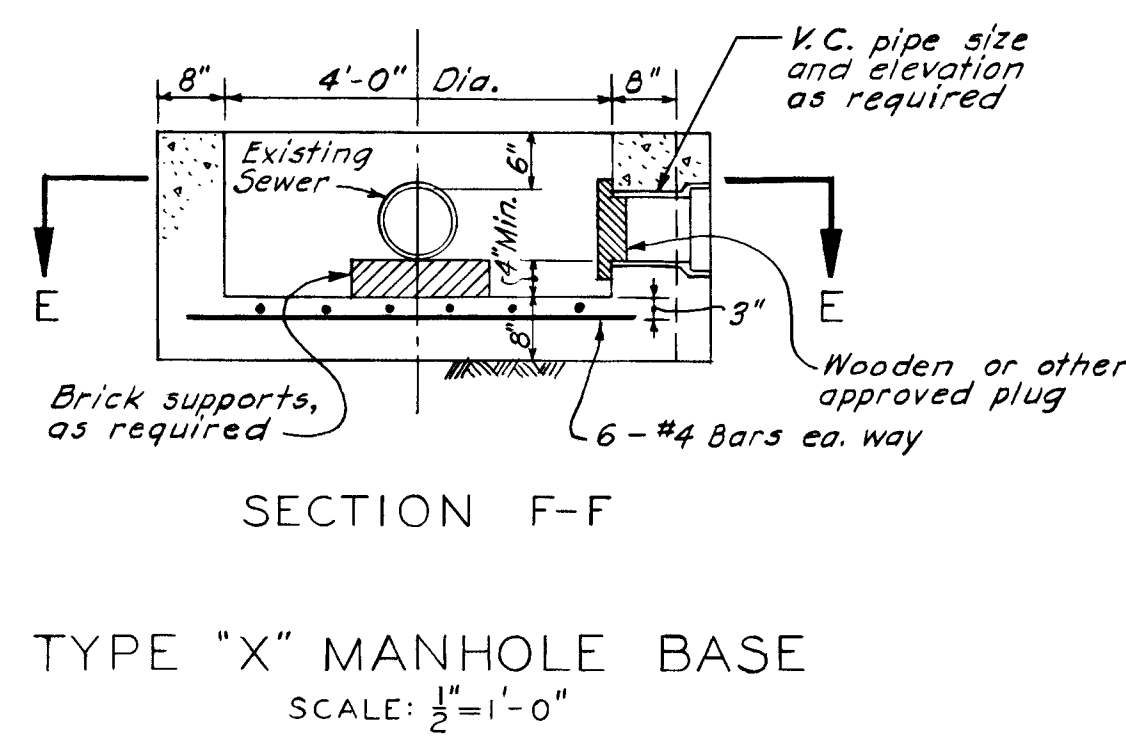
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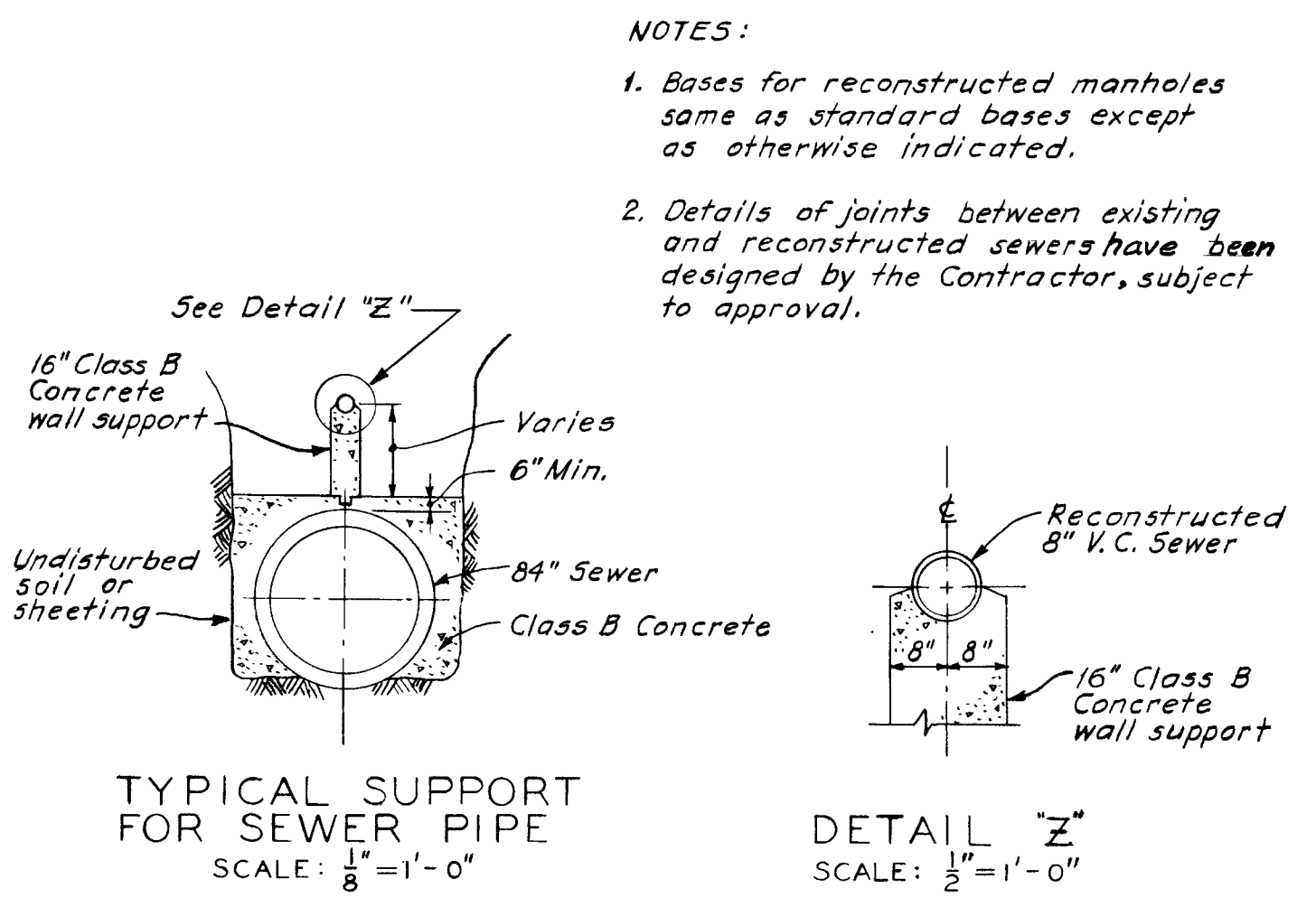
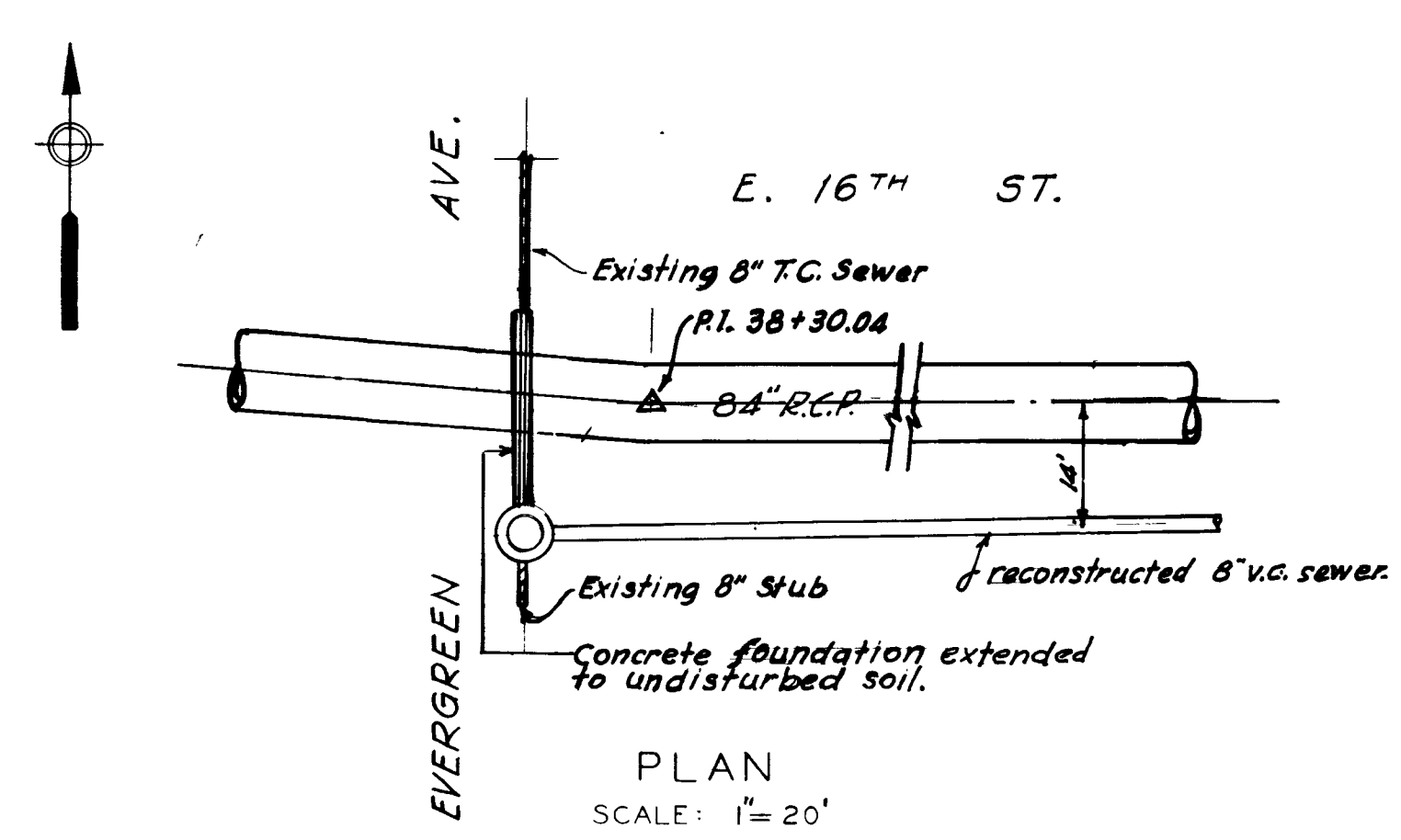
HUBBARD ST. SEWER CONNECTION



DESIGNED F.C.T.
DRAWN A.W.L./E.R.L.
TRACED J.E.W.
CHECKED A.W.C.
PROJECT ENGINEER

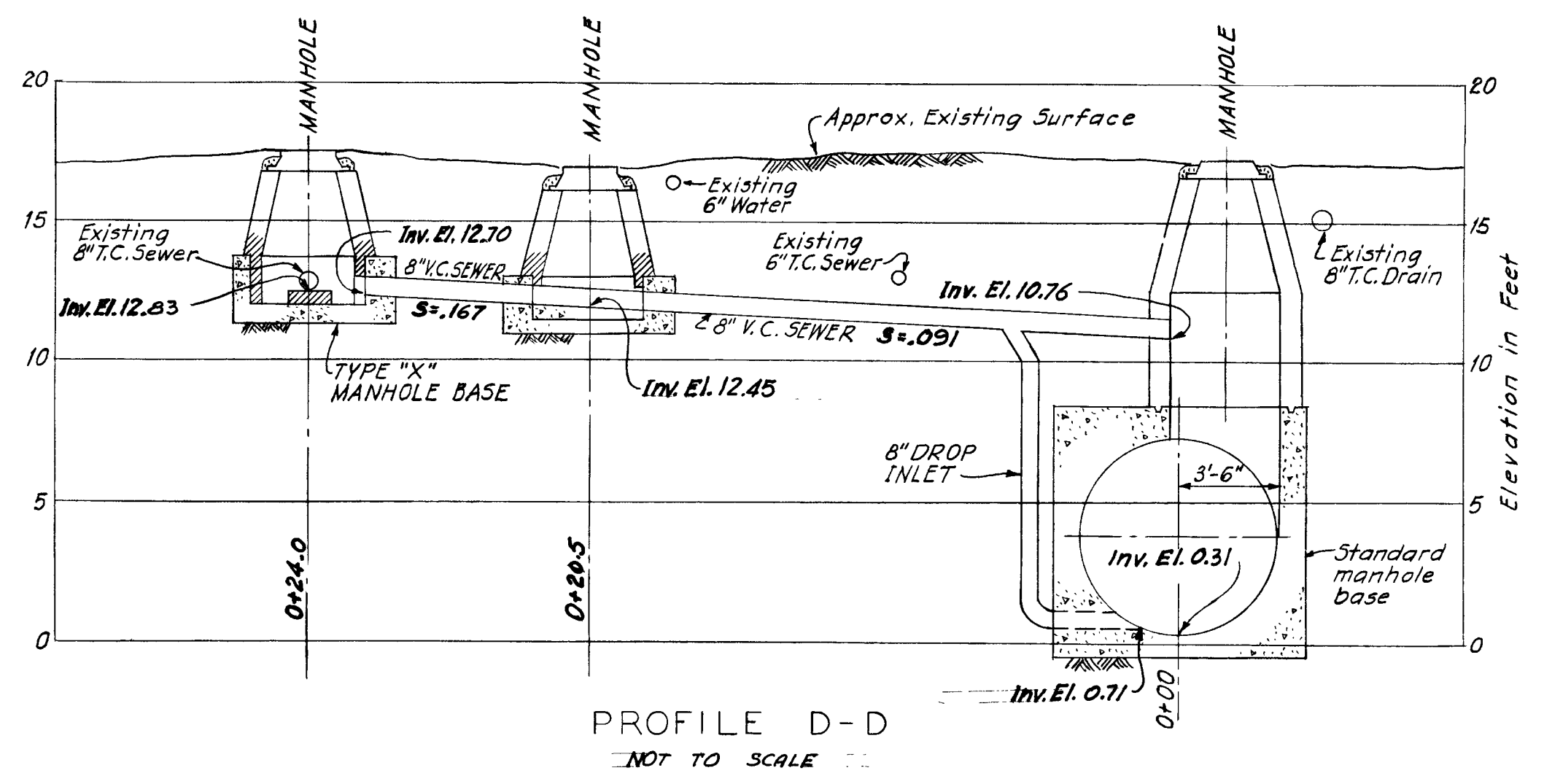
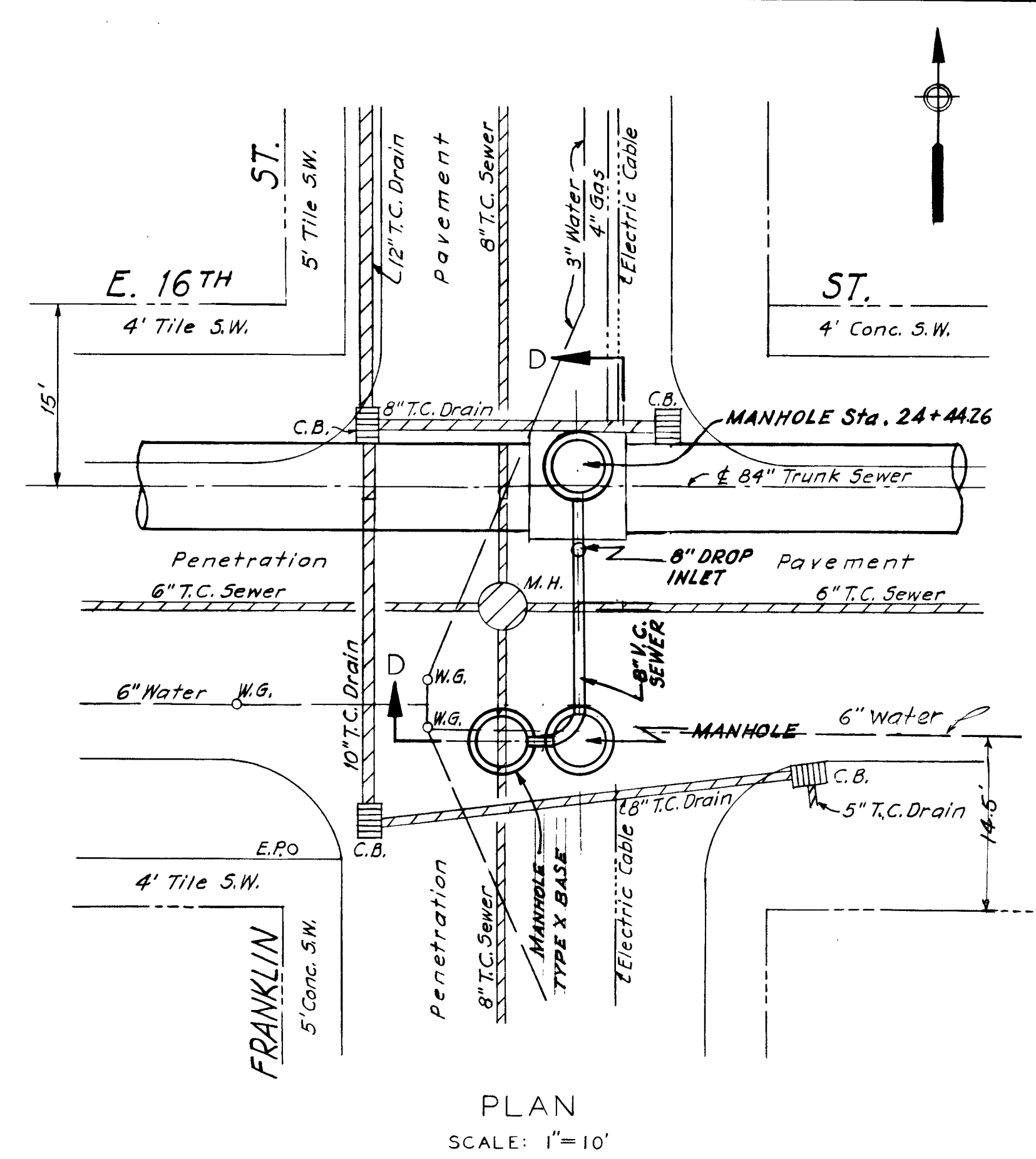


TYPE "X" MANHOLE BASE



RECONSTRUCTED 8" V.C. SEWER
EAST OF EVERGREEN AVE.

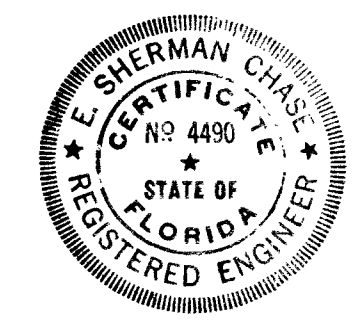
NOTE:
Whenever the "X" type manhole base is shown, the existing sewer system functions the same as before this contract. Actual diversion of sewerage to the new system will be accomplished by others.



FRANKLIN ST. SEWER CONNECTION

NOTE
See Sheets 18 and 19 for standard details.

14651 S



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>Bill E. Bryant</i>	12/21/58
CITY ENGINEER	DATE
FOR METCALF & EDDY	
<i>Sherman Chase</i>	12/23/58
REG. PROF. ENGR. FLA. NO. 4490	DATE

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	10/18/60	AS BUILT	C.E.L.	J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

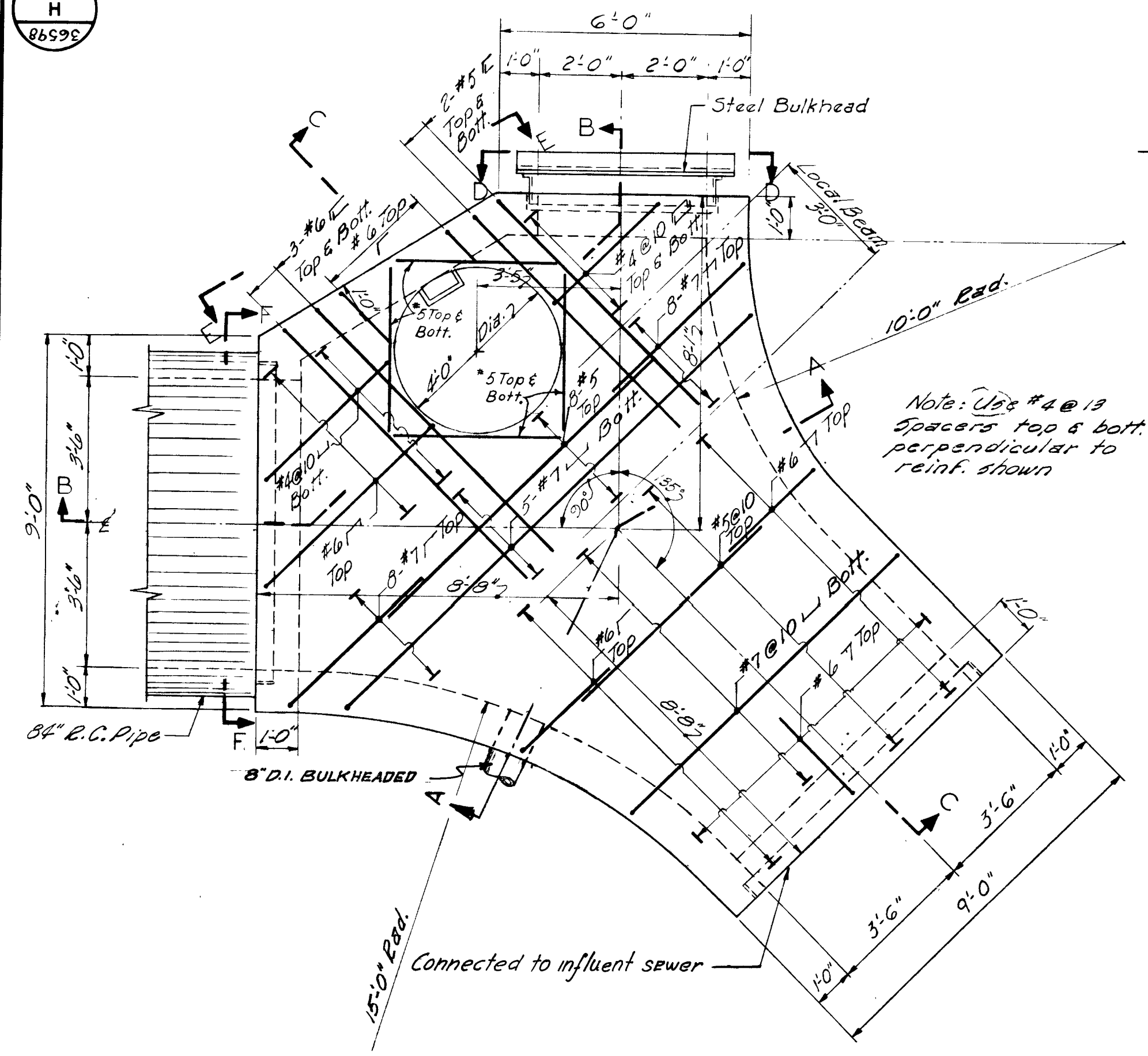
TRUNK SEWERS - SECTION E

SEWER CONNECTIONS
AND
MISCELLANEOUS DETAILS

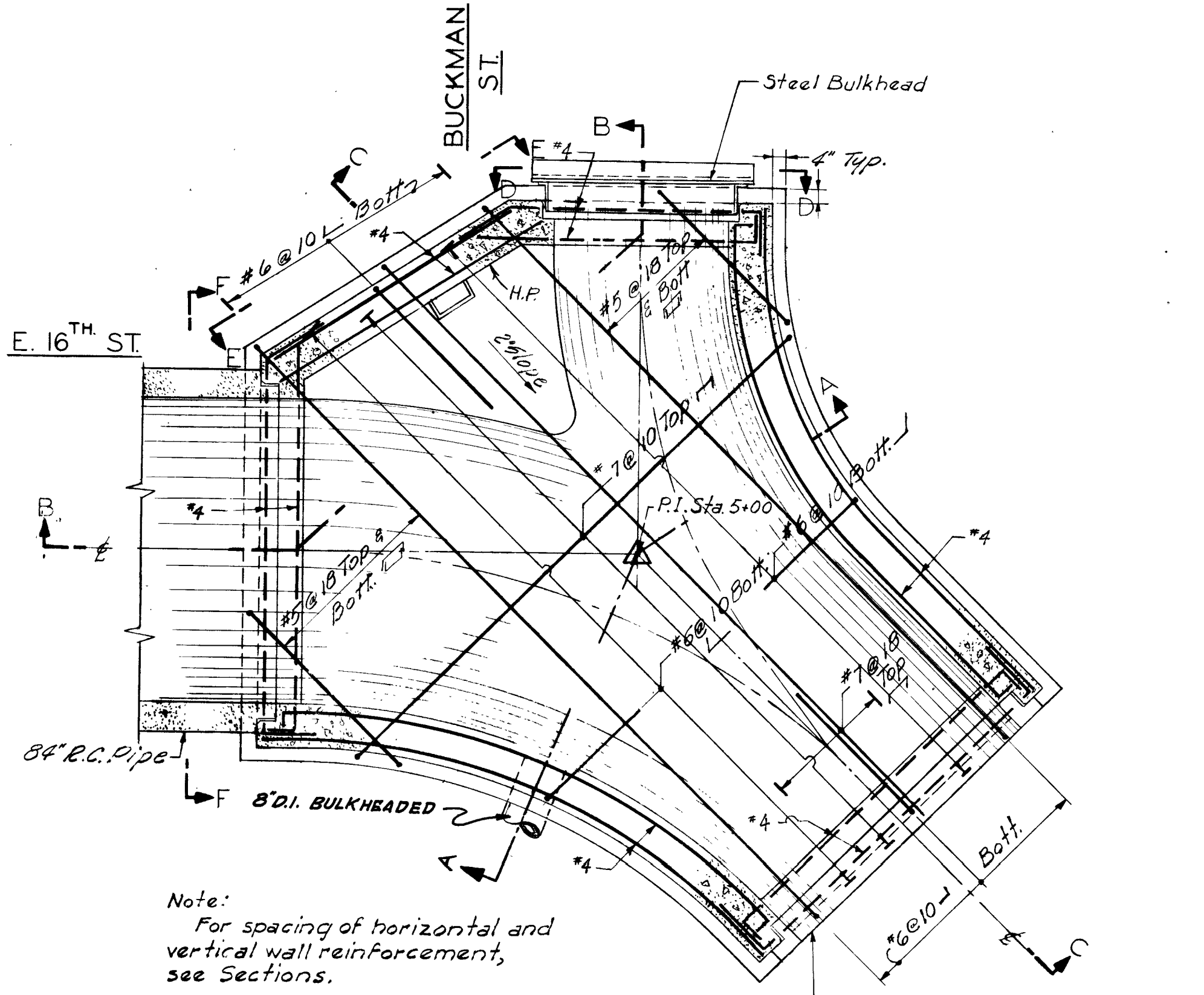
SCALE AS SHOWN
DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

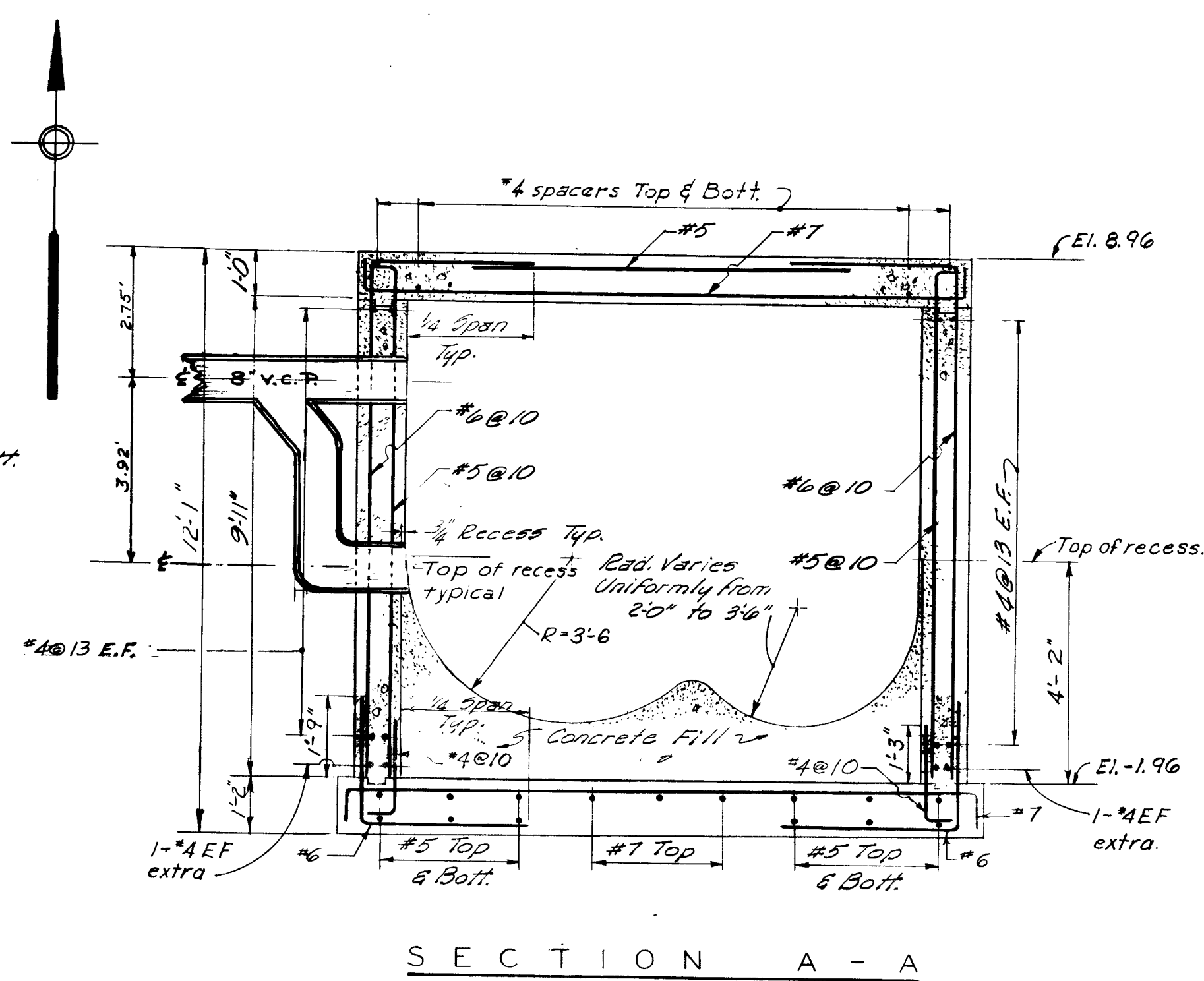
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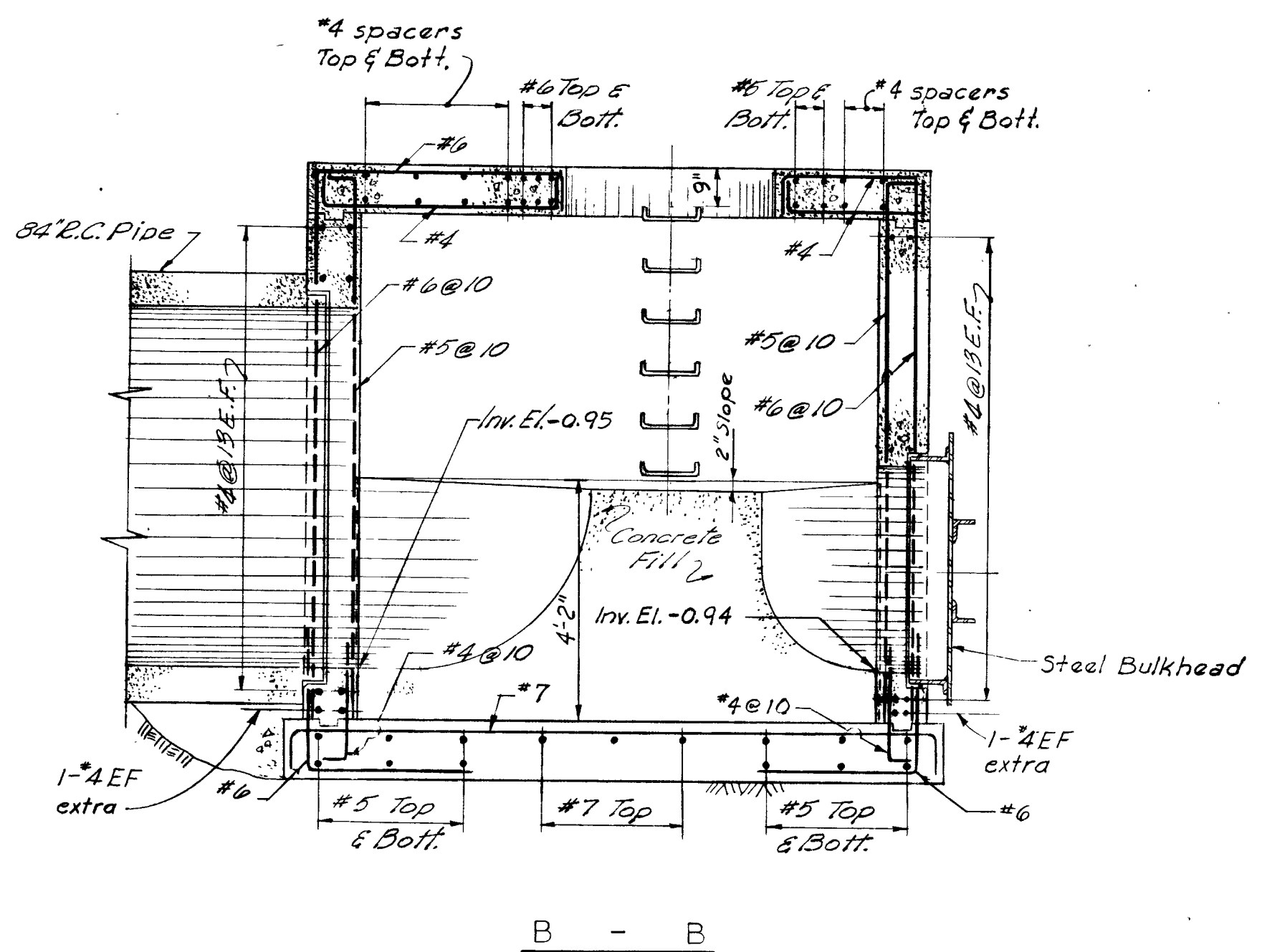
TOP PLAN



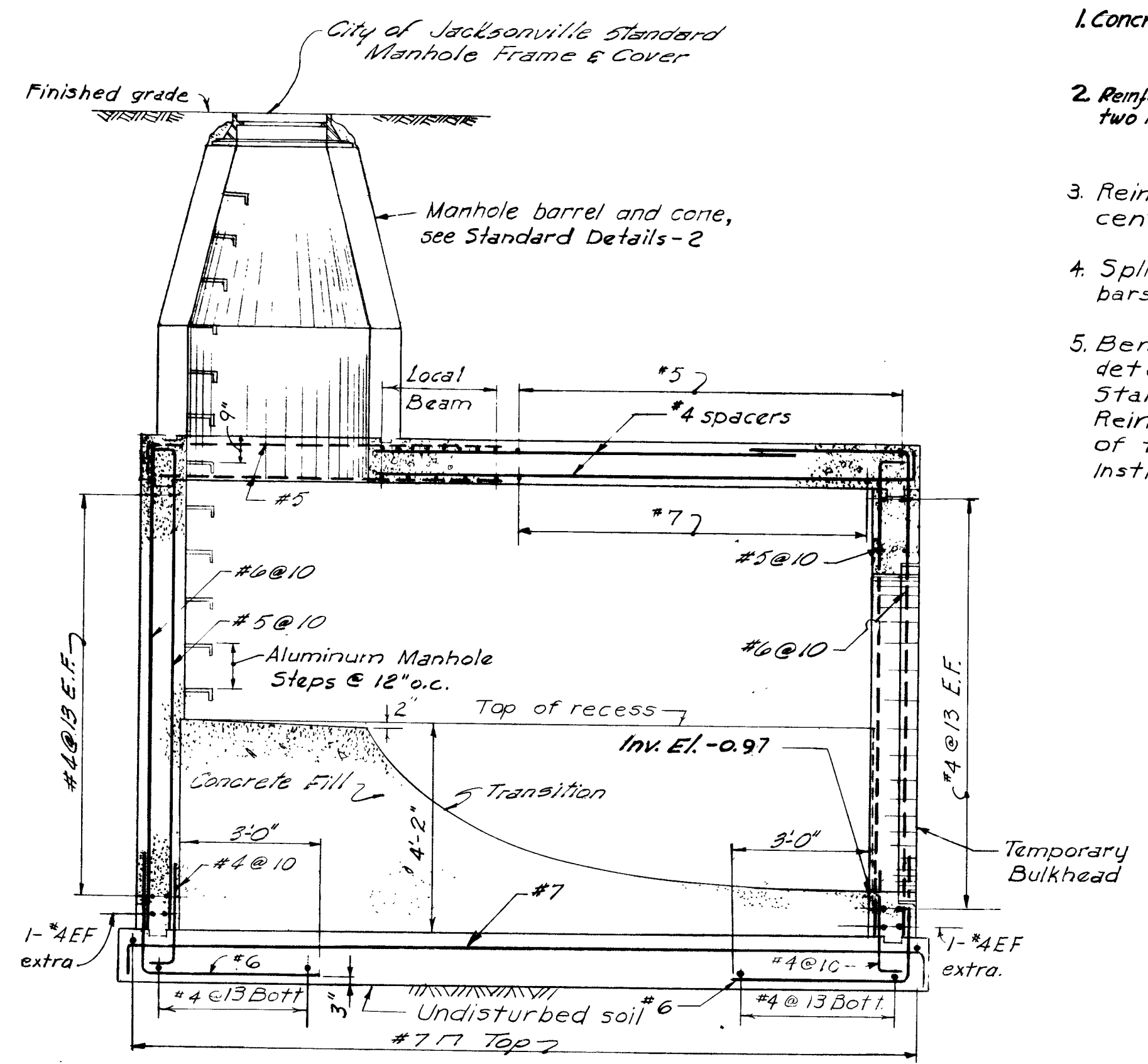
SECTIONAL PLAN



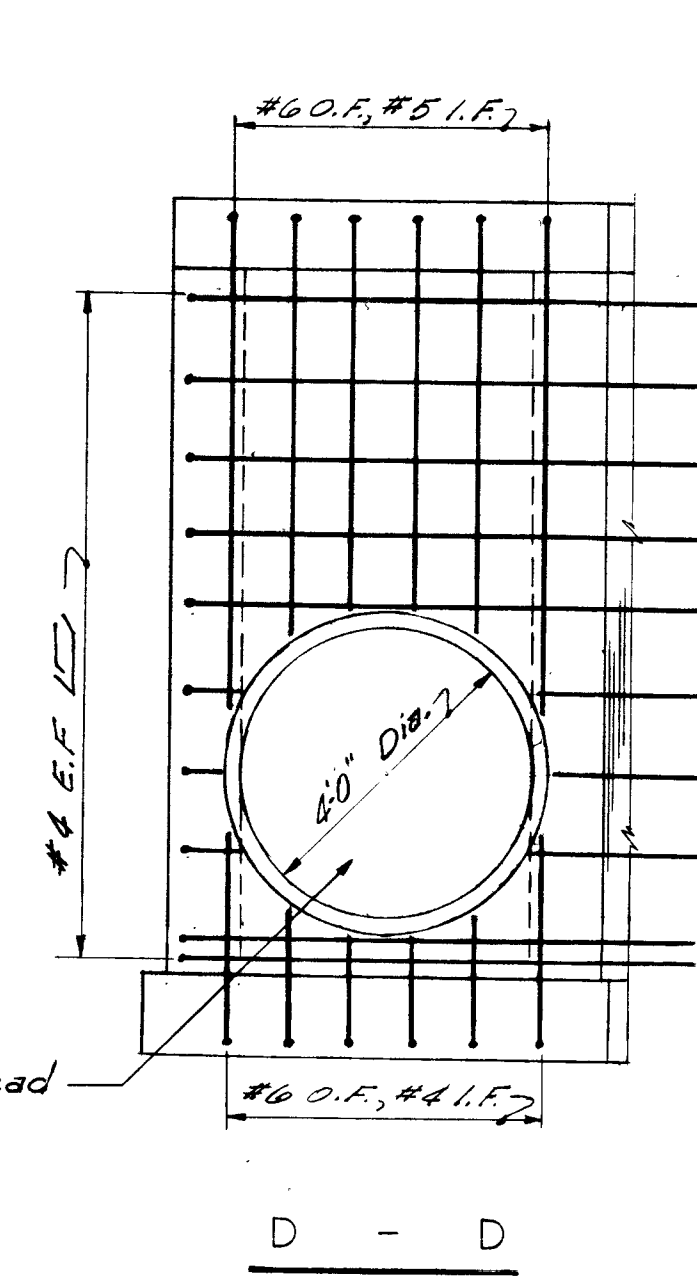
SECTION A - A



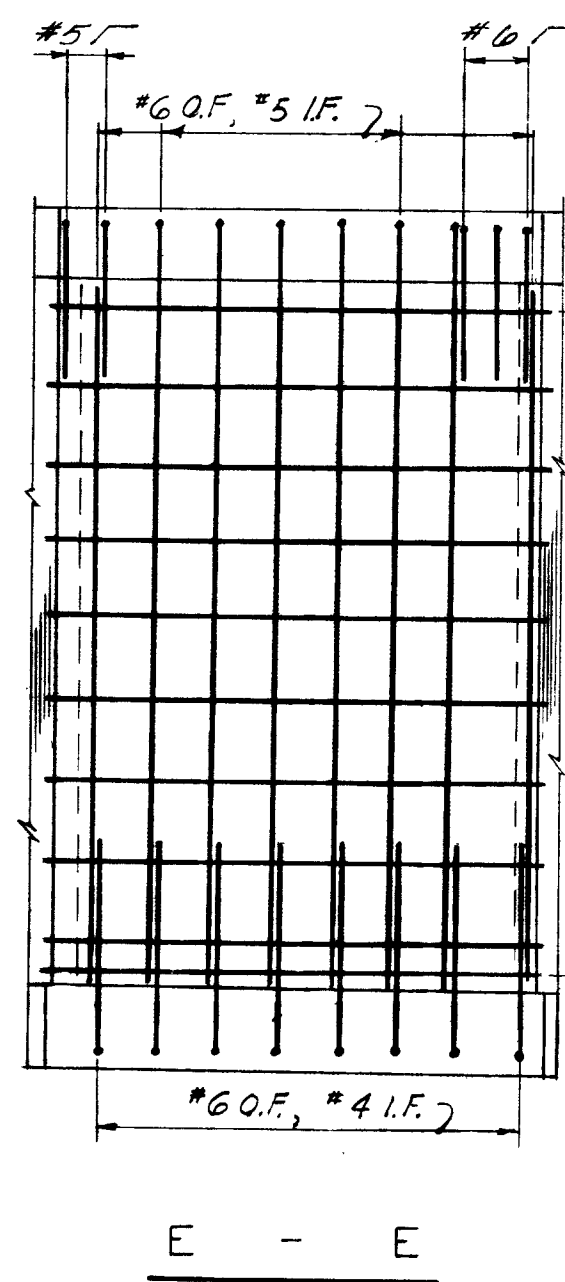
SECTION B - B



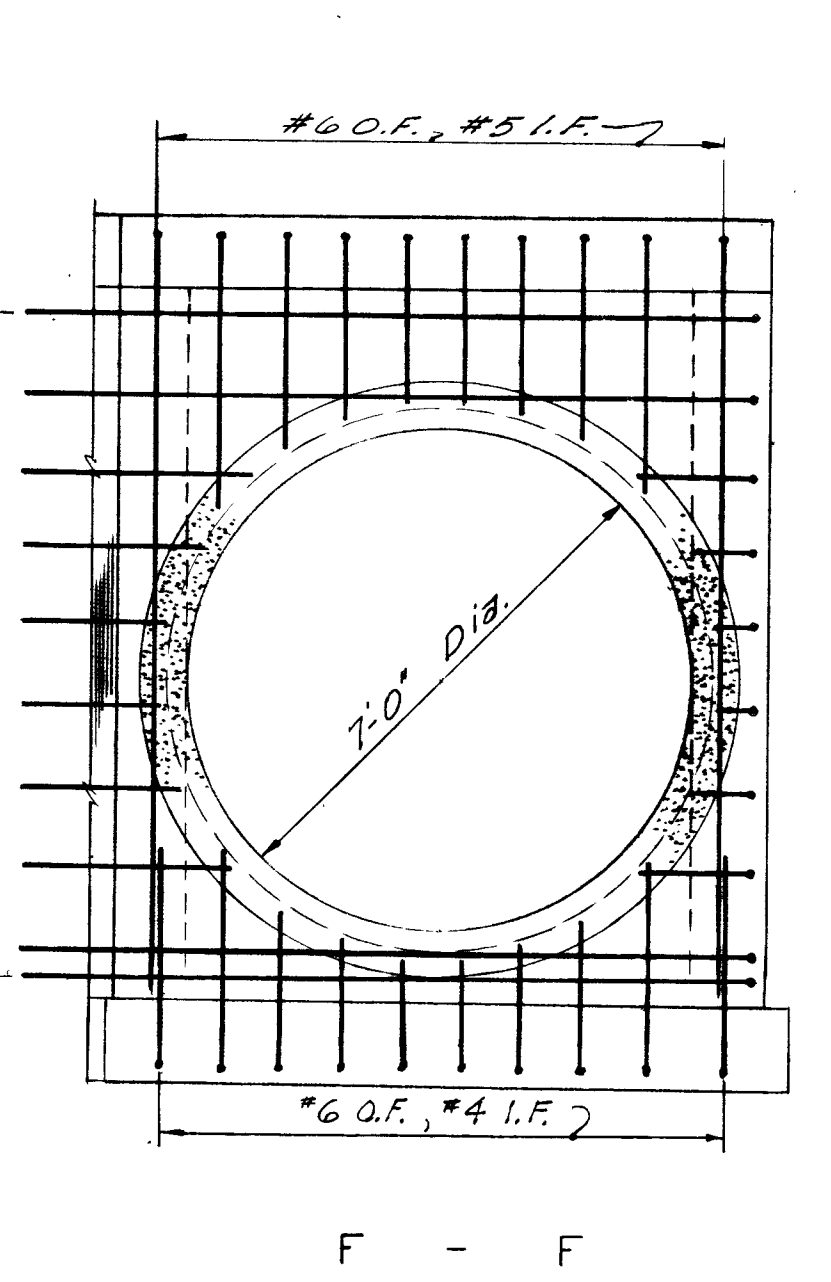
SECTION C - C



SECTION D - D



SECTION E - E



SECTION F - F

STRUCTURAL NOTES

1. Concrete is class A except as noted.
2. Reinforcement has a minimum clear cover of two inches except as noted.
3. Reinforcement spacing is center to center of bars.
4. Splices have been made by lapping bars 24 bar diameters.
5. Bends and hooks shall be as detailed in the "Manual of Standard Practice for Detailing Reinforced Concrete Structures" of the American Concrete Institute.

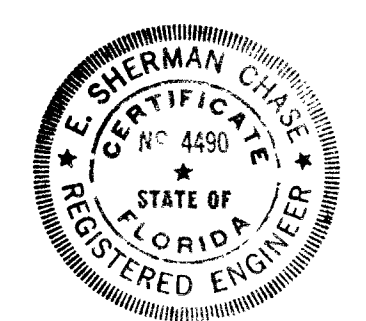
NOTE:
Steel bell joint rings as for pipe joints were cast into the concrete (and suitably anchored) to form the openings for the future 48" pipe, and the 84" pipes.

Note:
For spacing of horizontal and vertical wall reinforcement, see Sections.

JUNCTION CHAMBER NO. 1

14652 S

DESIGNED M.A.F.C.T.
DRAWN P.P.B.
TRACED P.P.B.
CHECKED P.T.A.G.
PROJECT ENGINEER



APPROVED					
FOR CITY OF JACKSONVILLE					
<i>Paul T. Egan</i>		12/31/58			
CITY ENGINEER		DATE			
REG. PROF. ENGR. FLA. NO. 4921					
FOR METCALF & EDDY					
<i>W. Sherman Chase</i>		12/23/58			
REG. PROF. ENGR. FLA. NO. 4490		DATE			
NO.	DATE	REVISION	CHK'D.	APPR'D.	
1	10/18/60	AS BUILT	G.E.L.	J.A.G.	

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

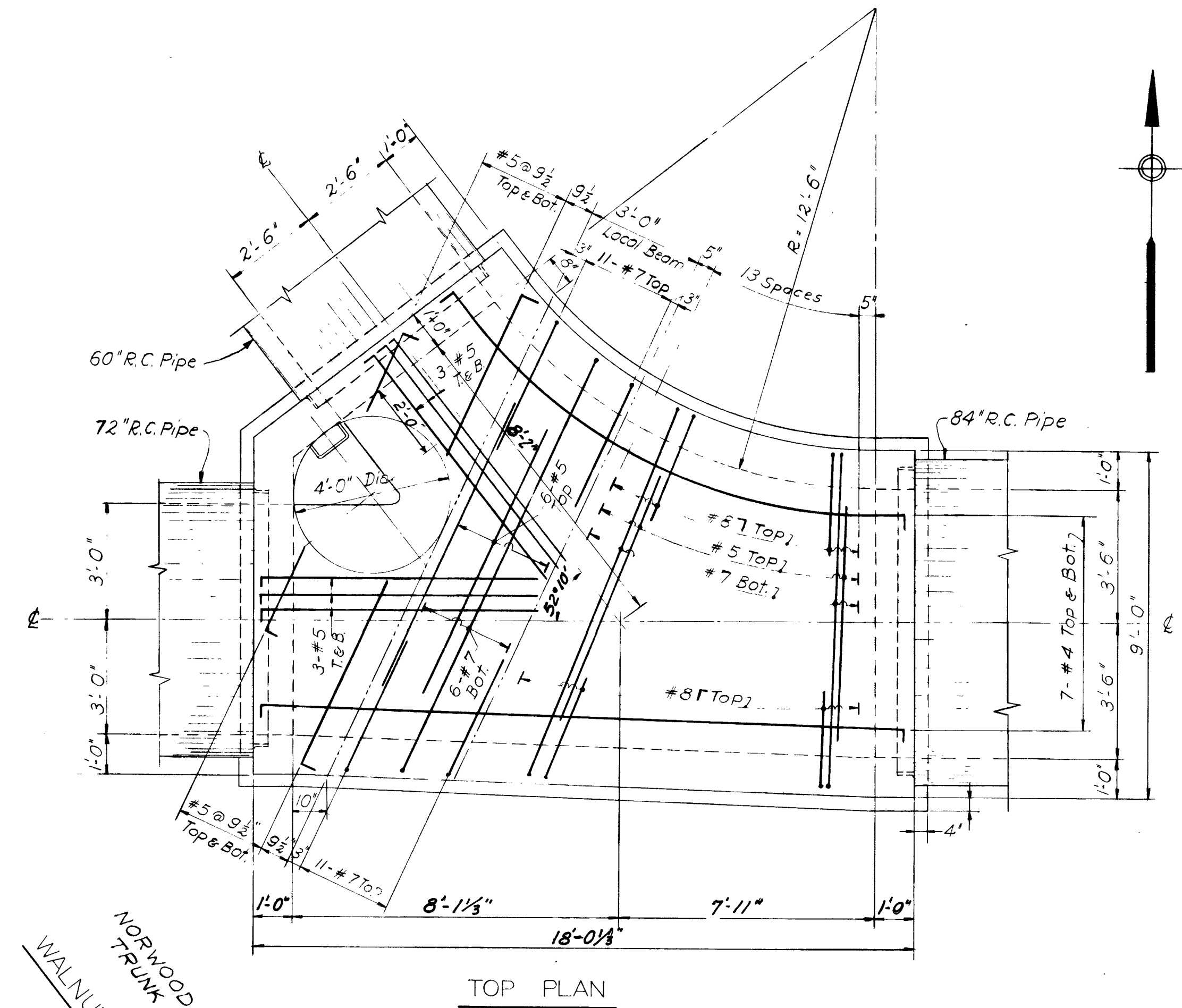
TRUNK SEWERS-SECTION E

JUNCTION CHAMBER
BUCKMAN ST. AND E. 16TH ST.

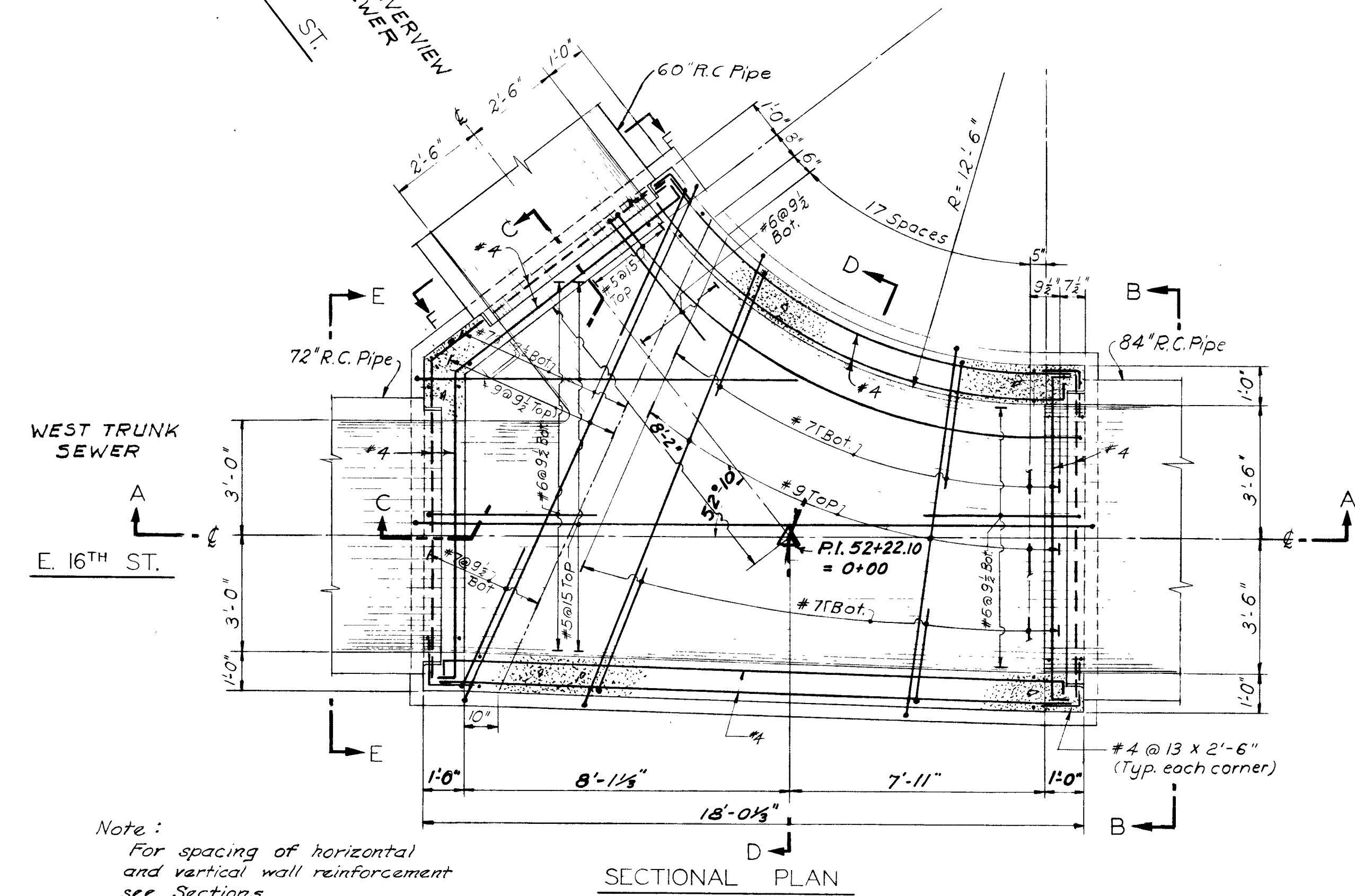
SCALE: $\frac{3}{8}'' = 1'-0''$ DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

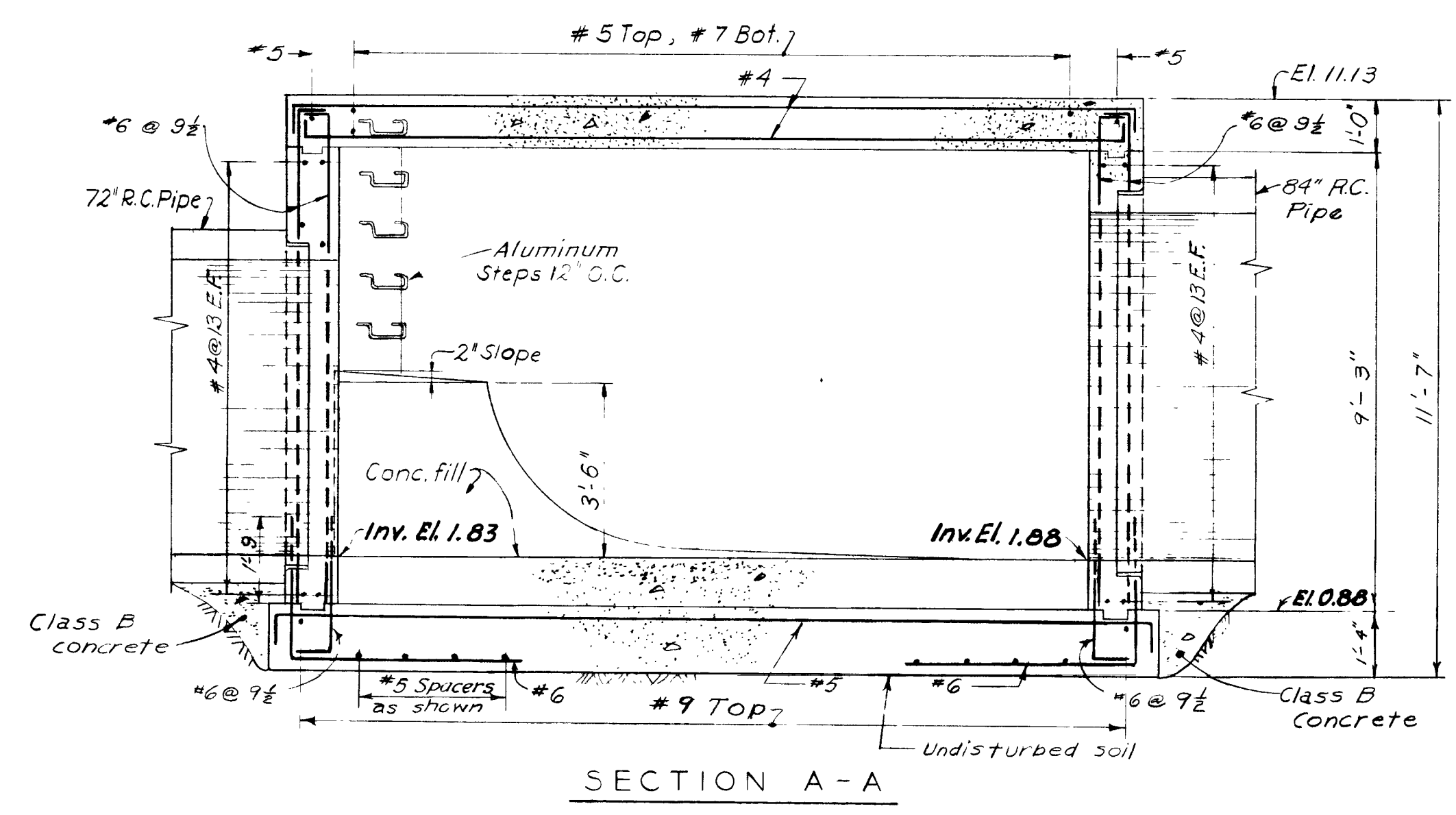
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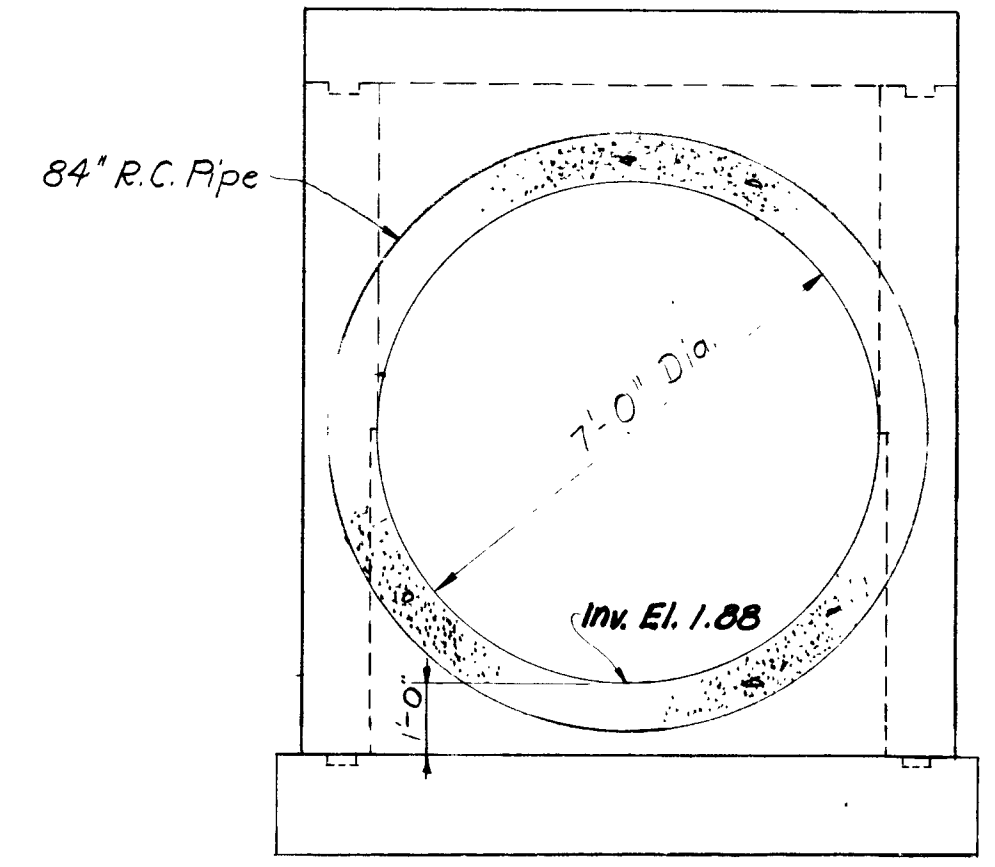
TOP PLAN



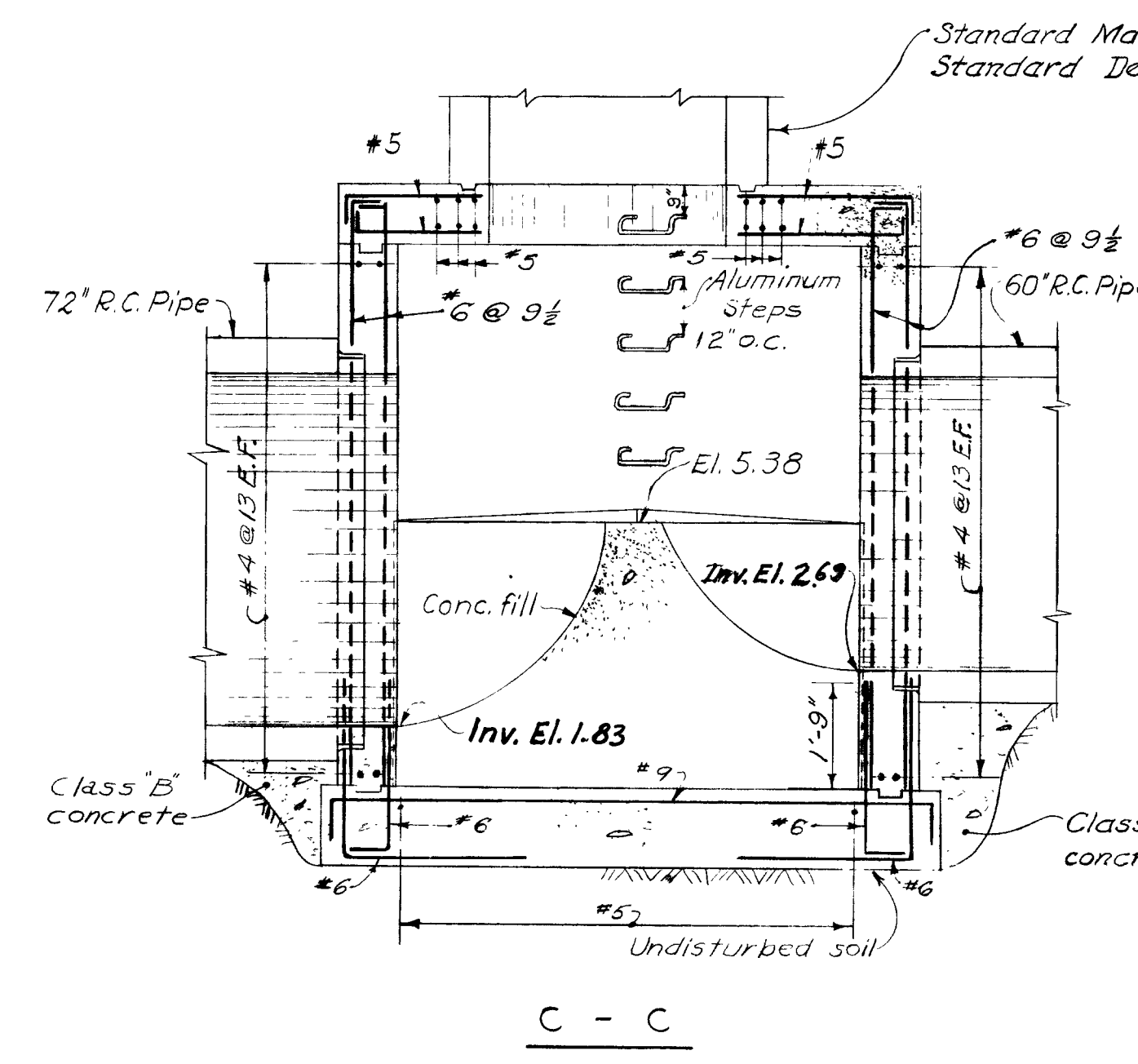
SECTIONAL PLAN



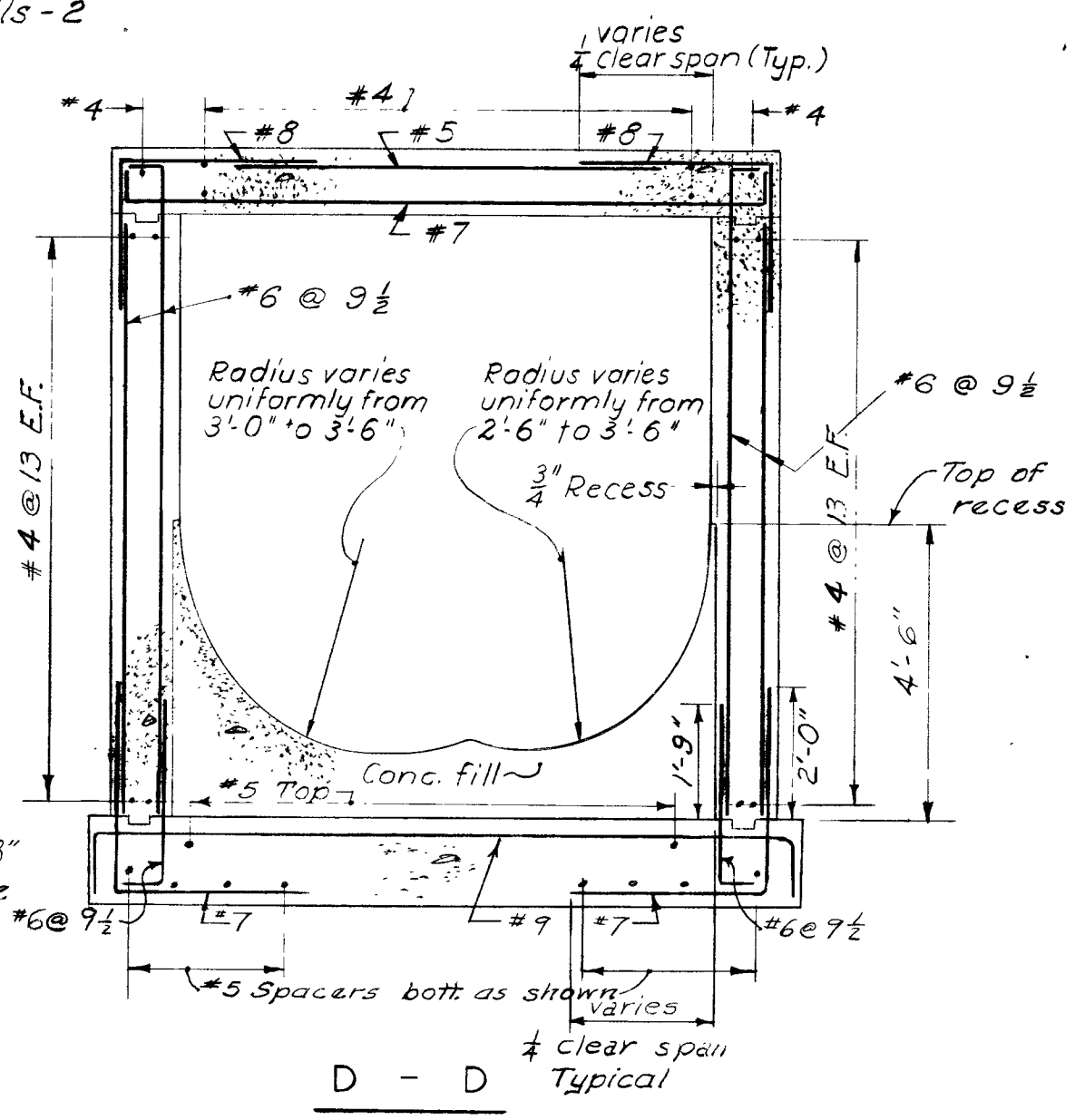
SECTION A-A



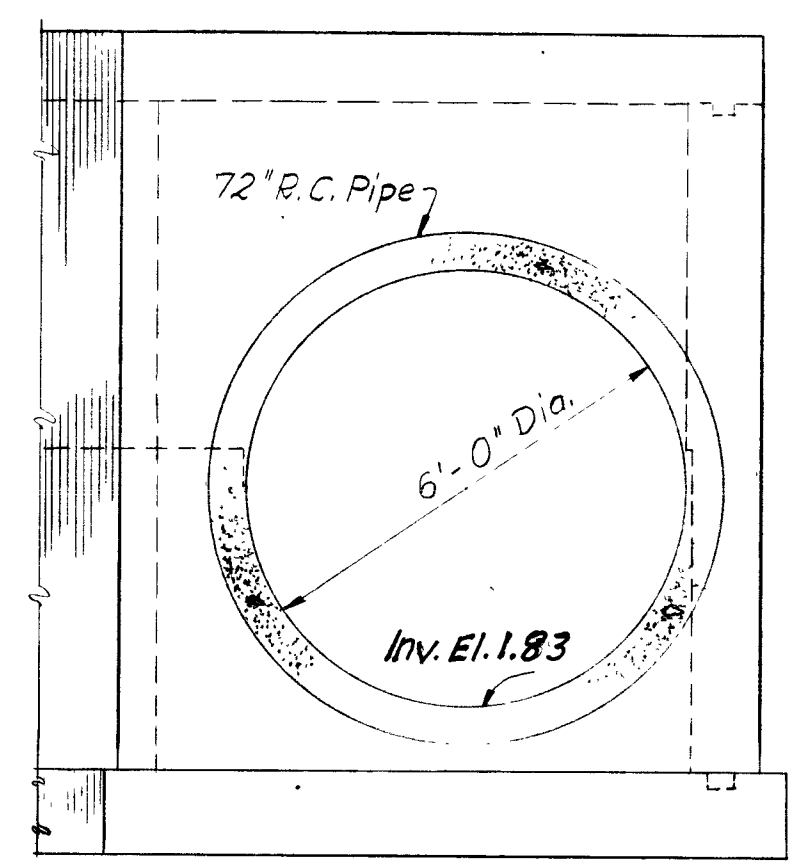
B - B



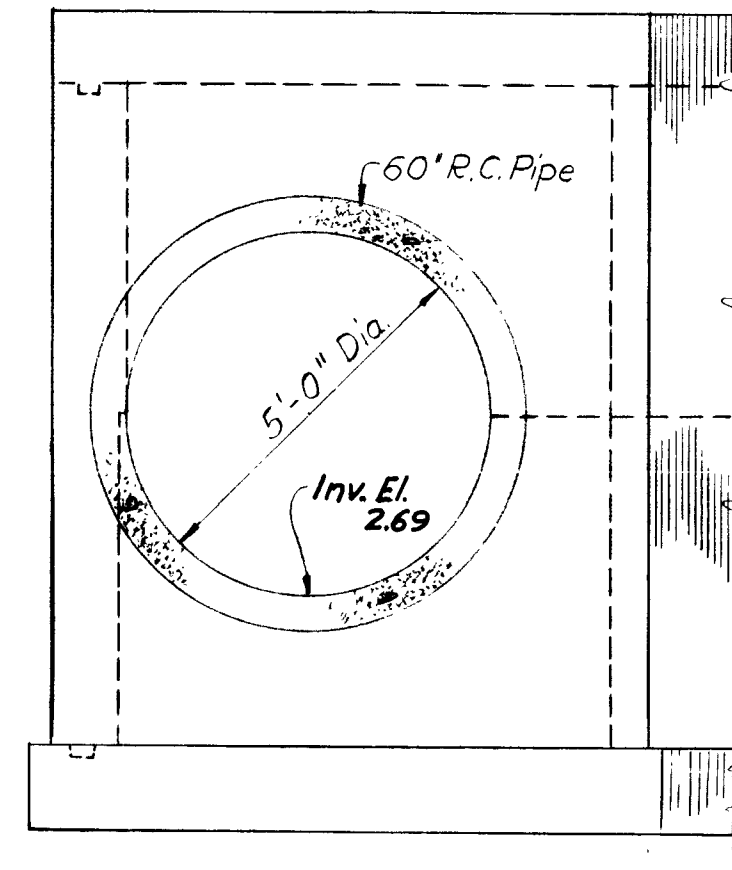
C - C



D - D



E - E



F - F

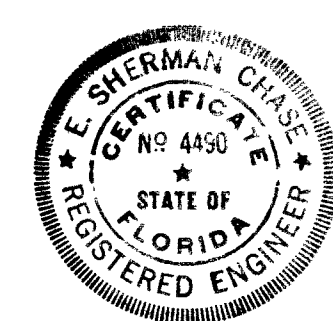
NOTES

1. For structural notes, see Sheet 14.
2. Steel bell joint rings as for pipe joints have been cast into the concrete (and suitably anchored) to form the openings for the R.C. Pipes.

JUNCTION CHAMBER NO. 2

14653 S

DESIGNED M.A. & F.C.T.
DRAWN L.U.W.
TRACED L.U.W.
CHECKED P.T. & W.C.
PROJECT ENGINEER

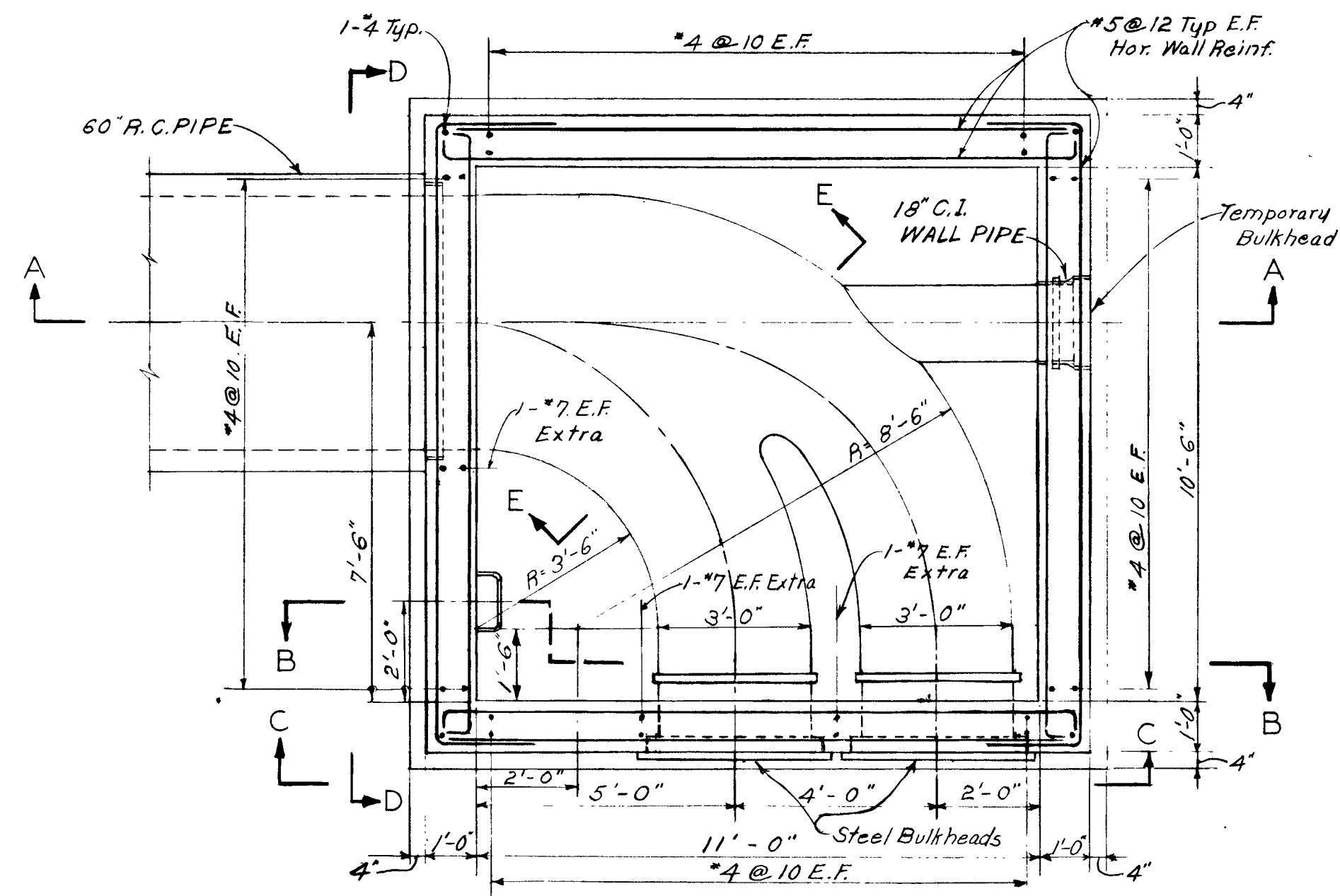


APPROVED
FOR CITY OF JACKSONVILLE
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4450
DATE 12/23/58
FOR METCALF & EDDY

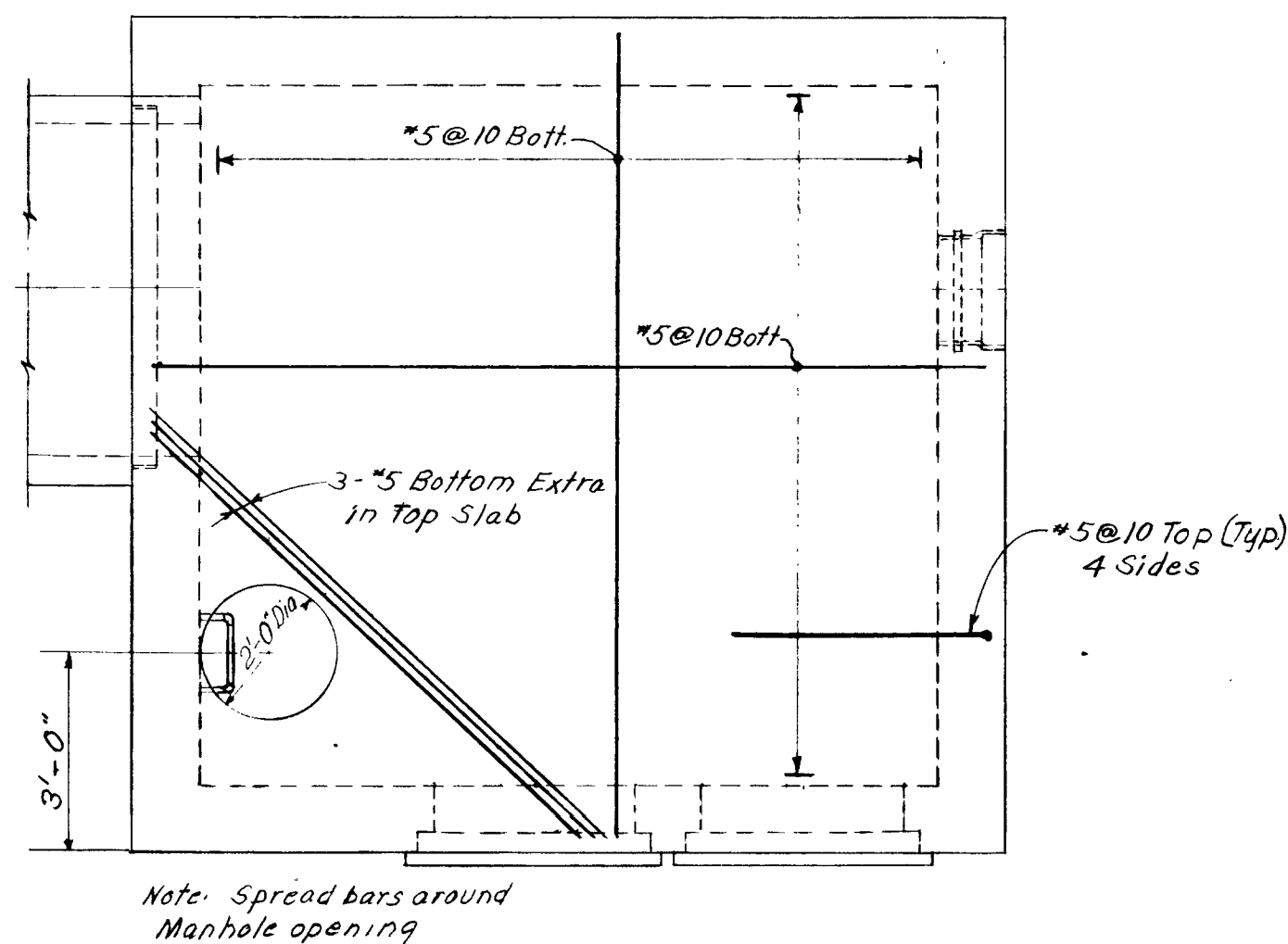
NO.	DATE	REVISION	CHK'D.	APPR'D.
1	10/14/60	AS BUILT	G.E.L.	J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

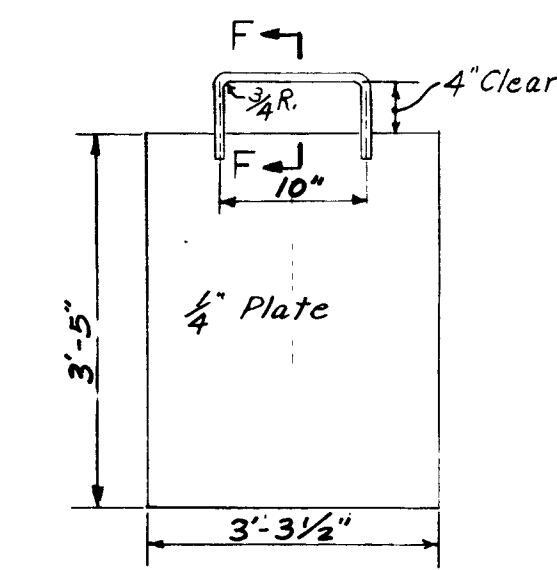
TRUNK SEWERS-SECTION E
JUNCTION CHAMBER
WALNUT ST. AND E. 16TH ST.
SCALE: 3/8" = 1'-0"
DECEMBER 1958
METCALF & EDDY
ENGINEERS
BOSTON, MASS.



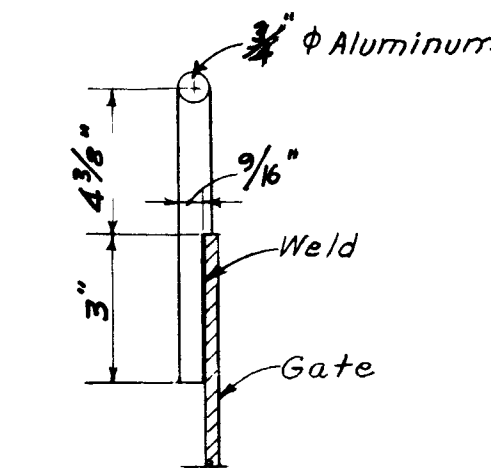
SECTIONAL PLAN



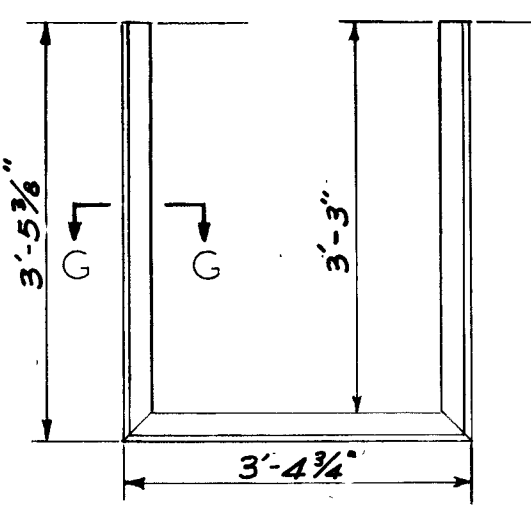
TOP PLAN



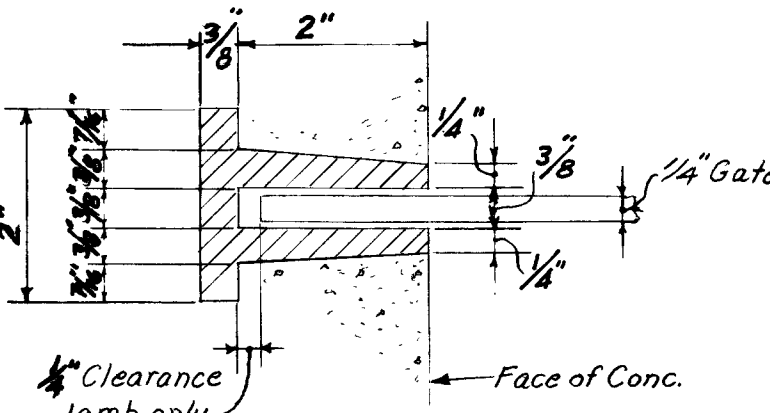
GATE
NOT TO SCALE



SECTION F-F
SCALE: 3" = 1'-0"

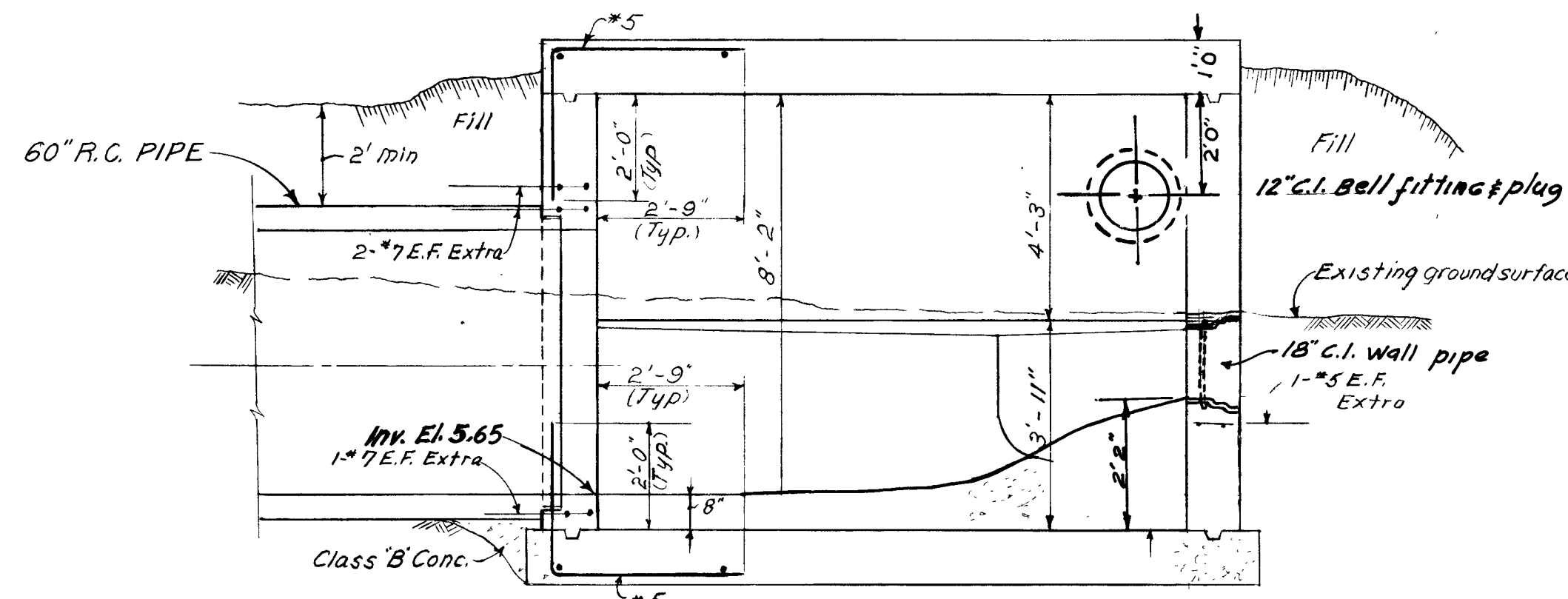


GUIDE
NOT TO SCALE

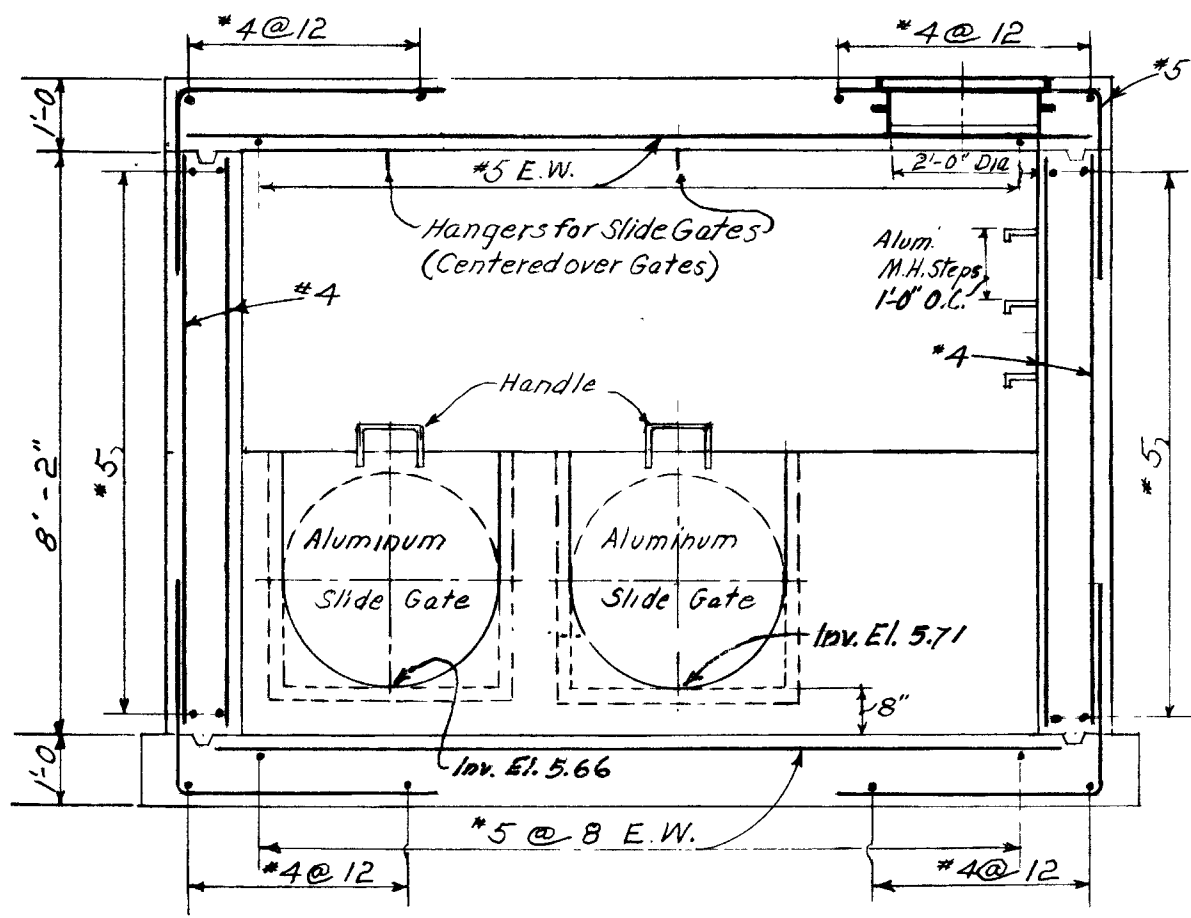


SECTION G-G
SCALE: HALF-SIZE

ALUMINUM SLIDE GATES AND GUIDES
ALUMINUM ALLOY 6061.



SECTION A-A

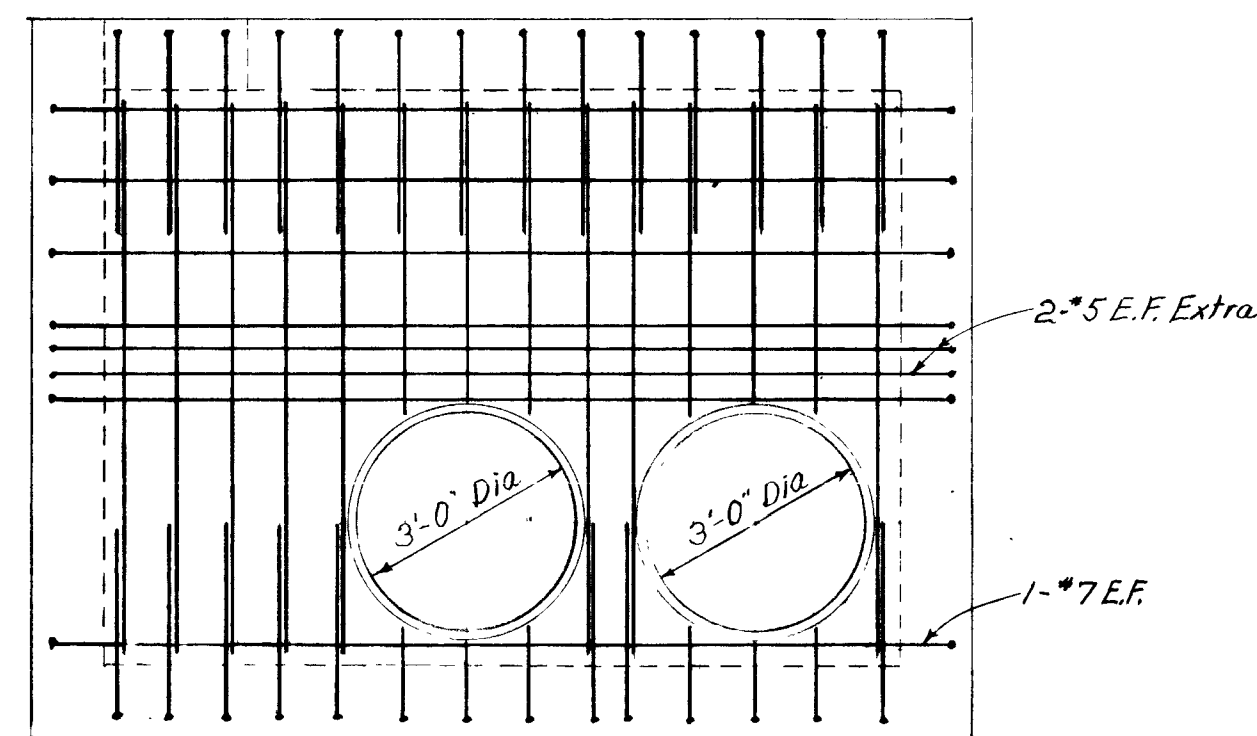


SECTION B-B

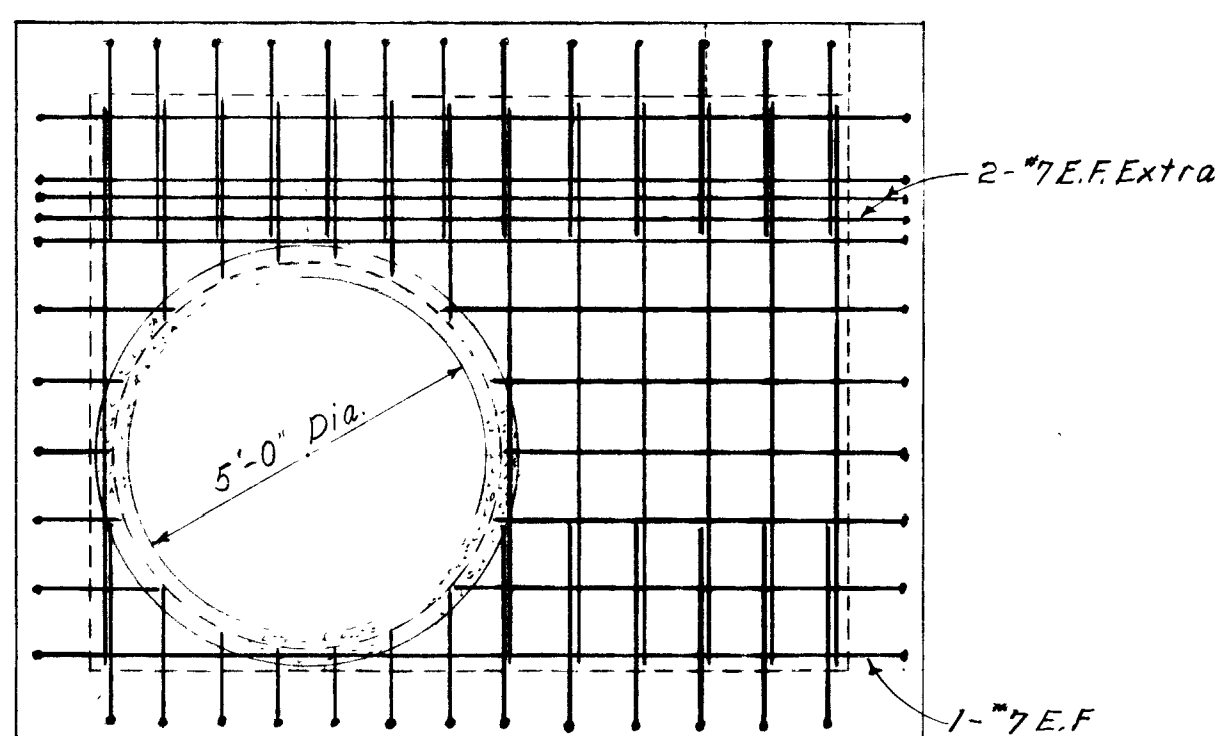
NOTES:

1. For Structural notes, See Sheet 14
2. Steel bell joint rings as for pipe joints **have been** cast into the concrete (and suitably anchored) to form openings for the 60" pipe and the future 36" pipes

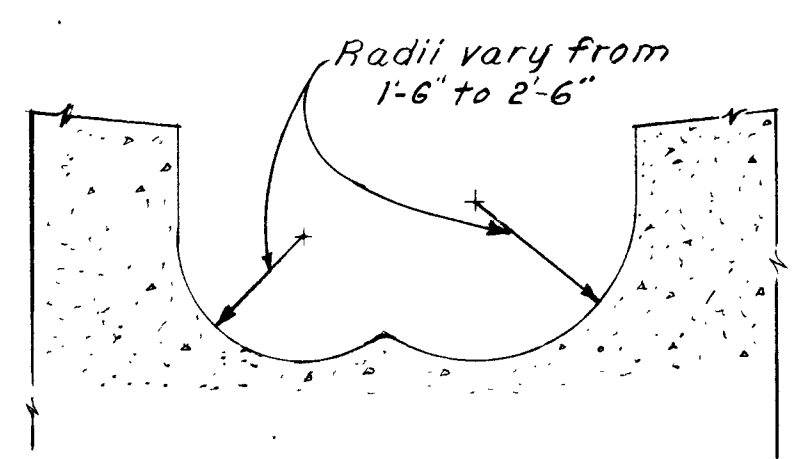
NOTE:
Steel Bulkheads
not shown.



SECTION C-C



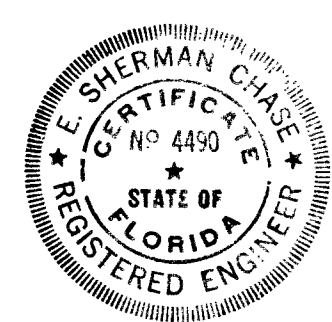
SECTION D-D



SECTION E-E

JUNCTION CHAMBER NO. 3

DESIGNED: E. J. E. P. I.
DRAWN: W. L. B. --
TRACED: W. L. B. --
CHECKED: E. J. E. P. I.
PROJECT ENGINEER



APPROVED	
FOR CITY OF JACKSONVILLE	
<i>E. J. E. P. I.</i>	12/21/58
CITY ENGINEER	DATE
REG. PROF. ENGR. FLA. NO. 4921	
FOR METCALF & EDDY	
<i>E. J. E. P. I.</i>	12/23/58
REG. PROF. ENGR. FLA. NO. 4490	DATE

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CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS-SECTION E

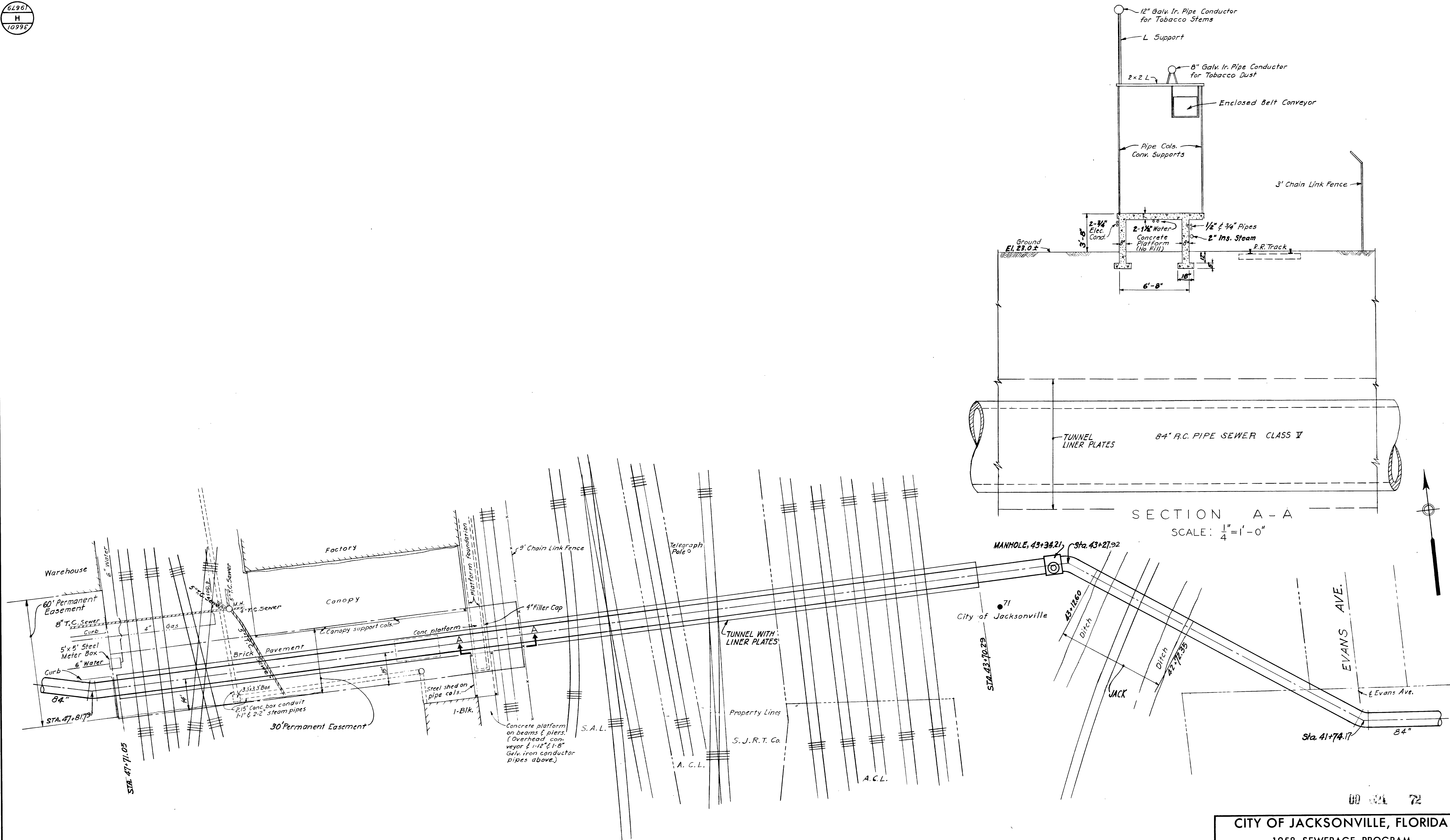
JUNCTION CHAMBER
NEAR 32ND ST.

SCALE: 3/8" = 1'-0"
EXCEPT AS SHOWN

DECEMBER 1958

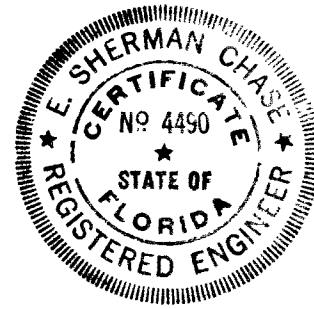
METCALF & EDDY
ENGINEERS
BOSTON, MASS.

36600
H
19676



NOTE: For trunk sewer details see sheets 4 and 5.

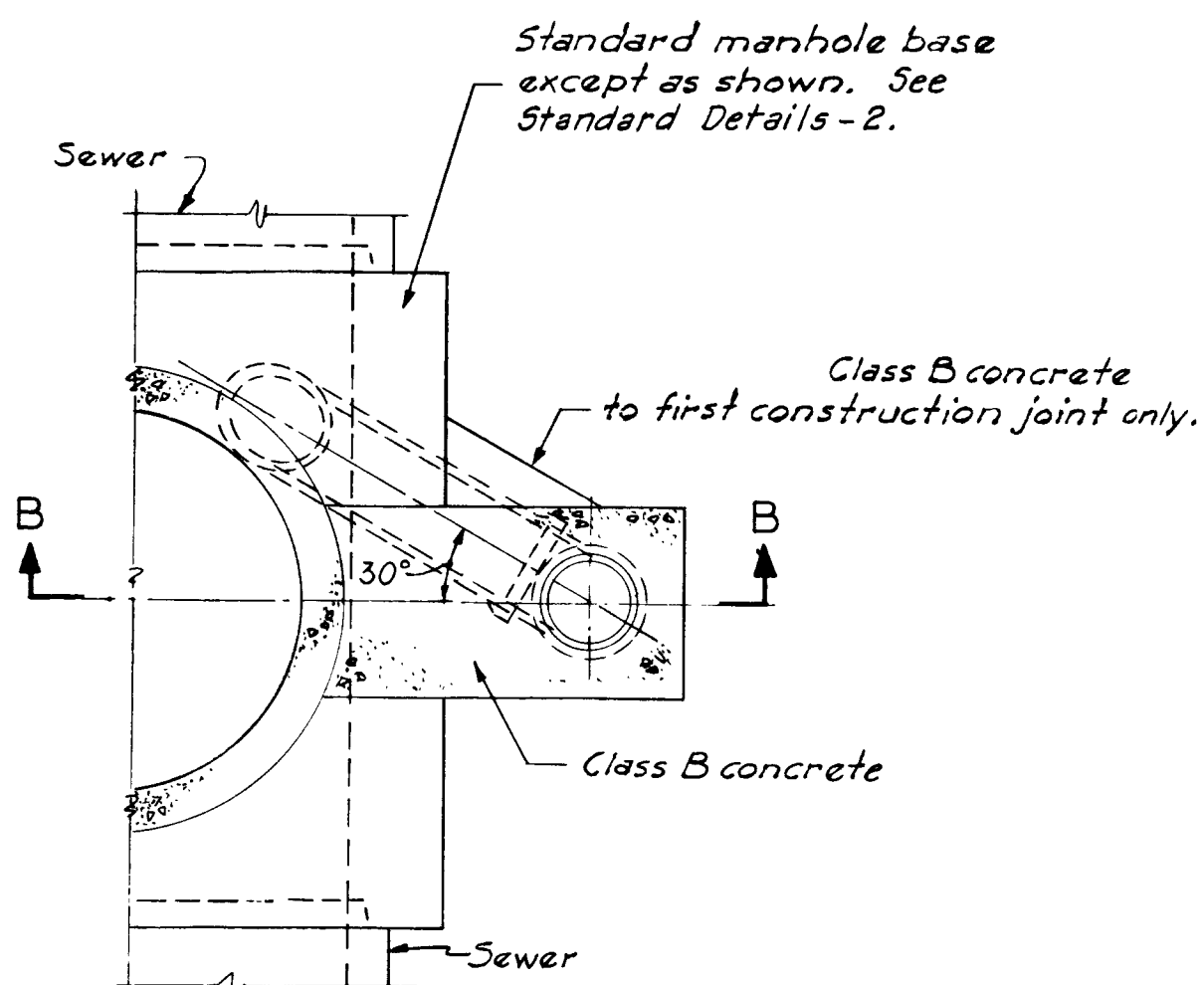
DESIGNED *E.C.I.*
DRAWN *E.F.A.*
TRACED *E.F.A.*
CHECKED *E.F.A.*
C. Mitchell
PROJECT ENGINEER



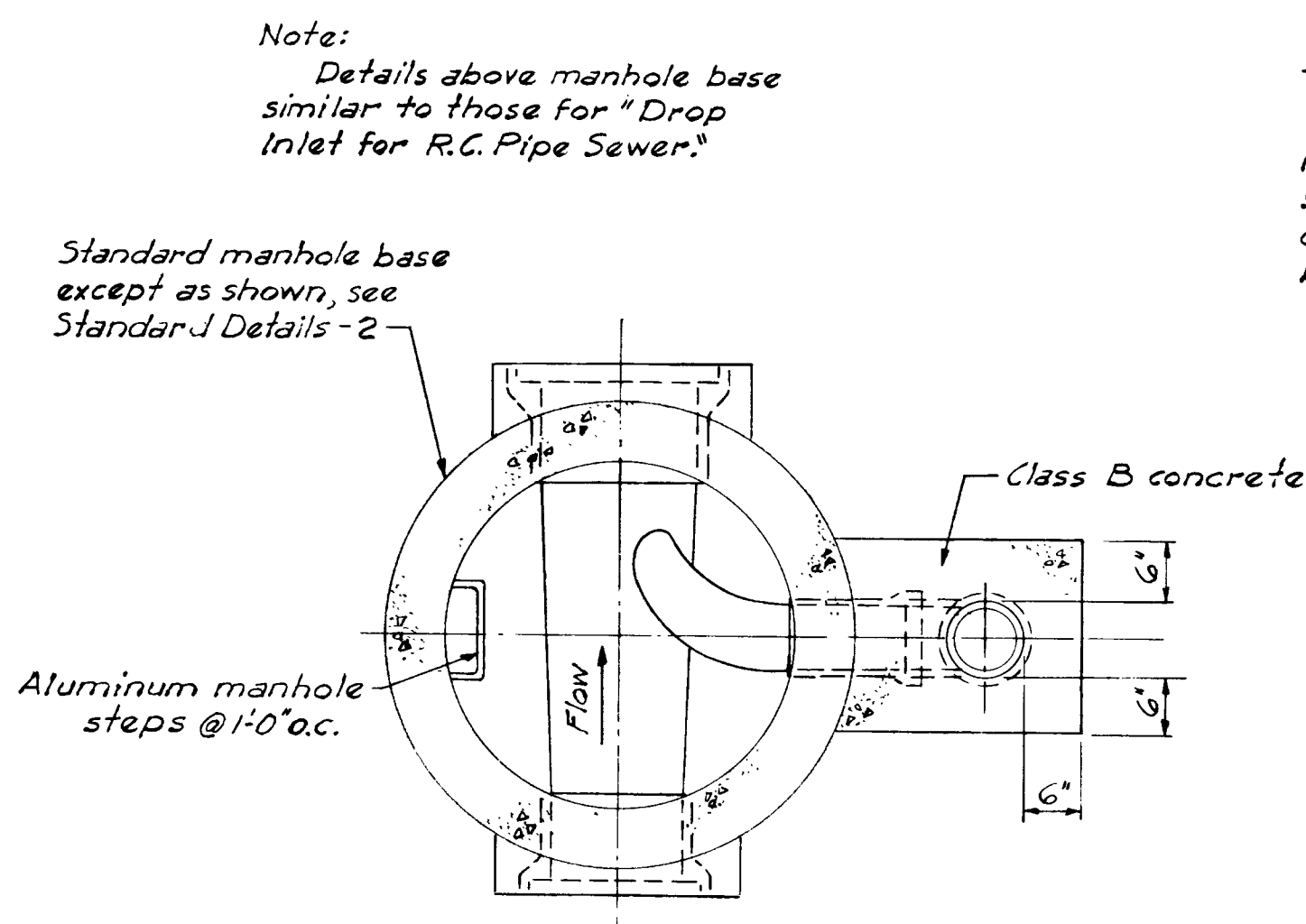
APPROVED
FOR CITY OF JACKSONVILLE
Bill E. Bryant
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4921
DATE 12/10/58
FOR METCALF & EDDY
E. Sherman Chase
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/58

NO.	DATE	REVISION	CHK'D.	APPR'D.
1	10/14/60	AS BUILT	C.E.L.	J.A.C.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM
TRUNK SEWERS-SECTION E
ENLARGED PLAN AND DETAILS
WEST OF EVANS AVE.
SCALE: 1" = 20'
EXCEPT AS SHOWN
DECEMBER 1958
METCALF & EDDY
ENGINEERS
BOSTON, MASS.
36601
H
19679



SECTION A-A

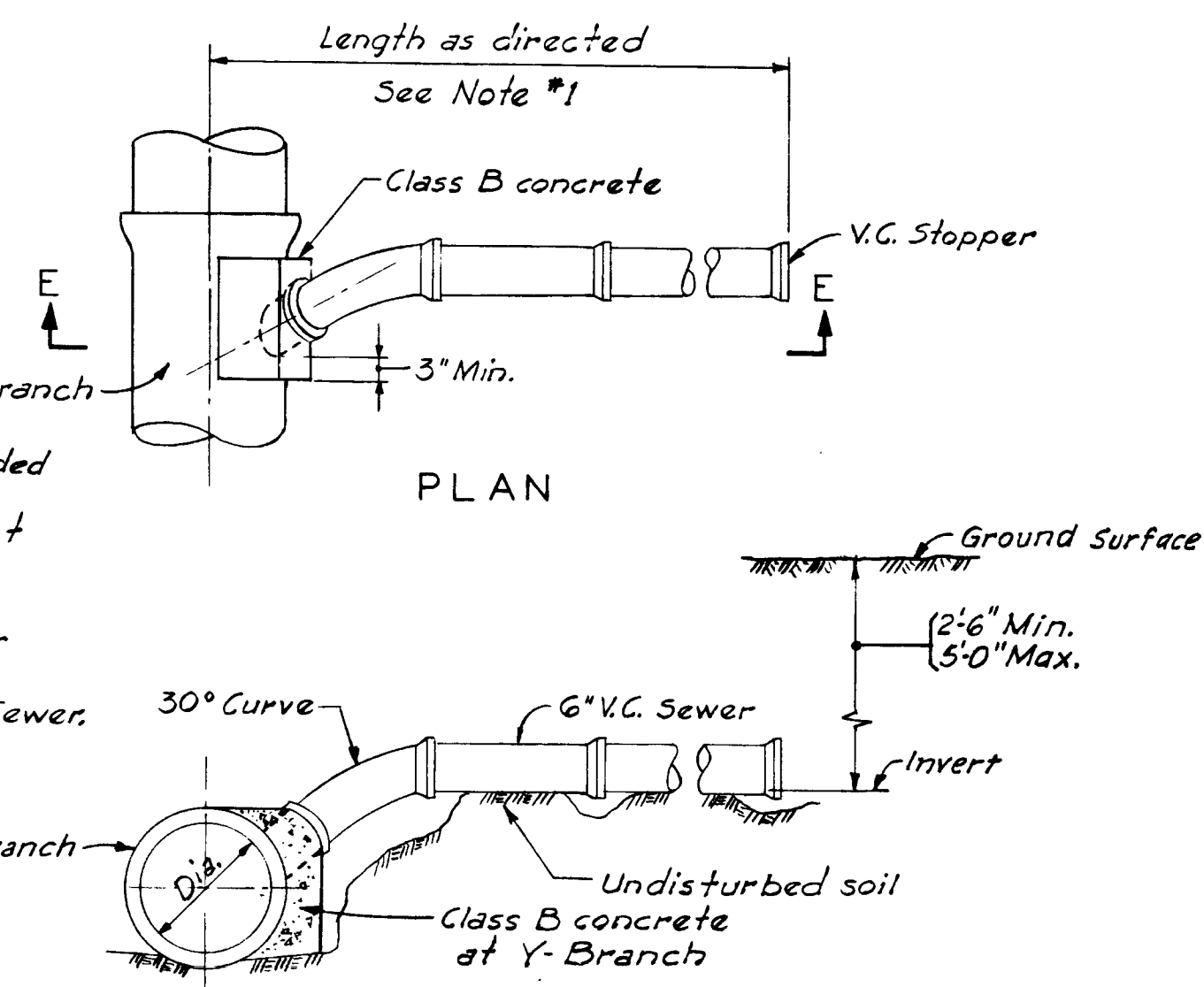


SECTIONAL PLAN
DROP INLET FOR V.C. PIPE SEWER

Y-BRANCH STUBS

Wherever a Y-branch stub is installed, the branch has been strengthened with Class B concrete as indicated for Typical Building Connection.

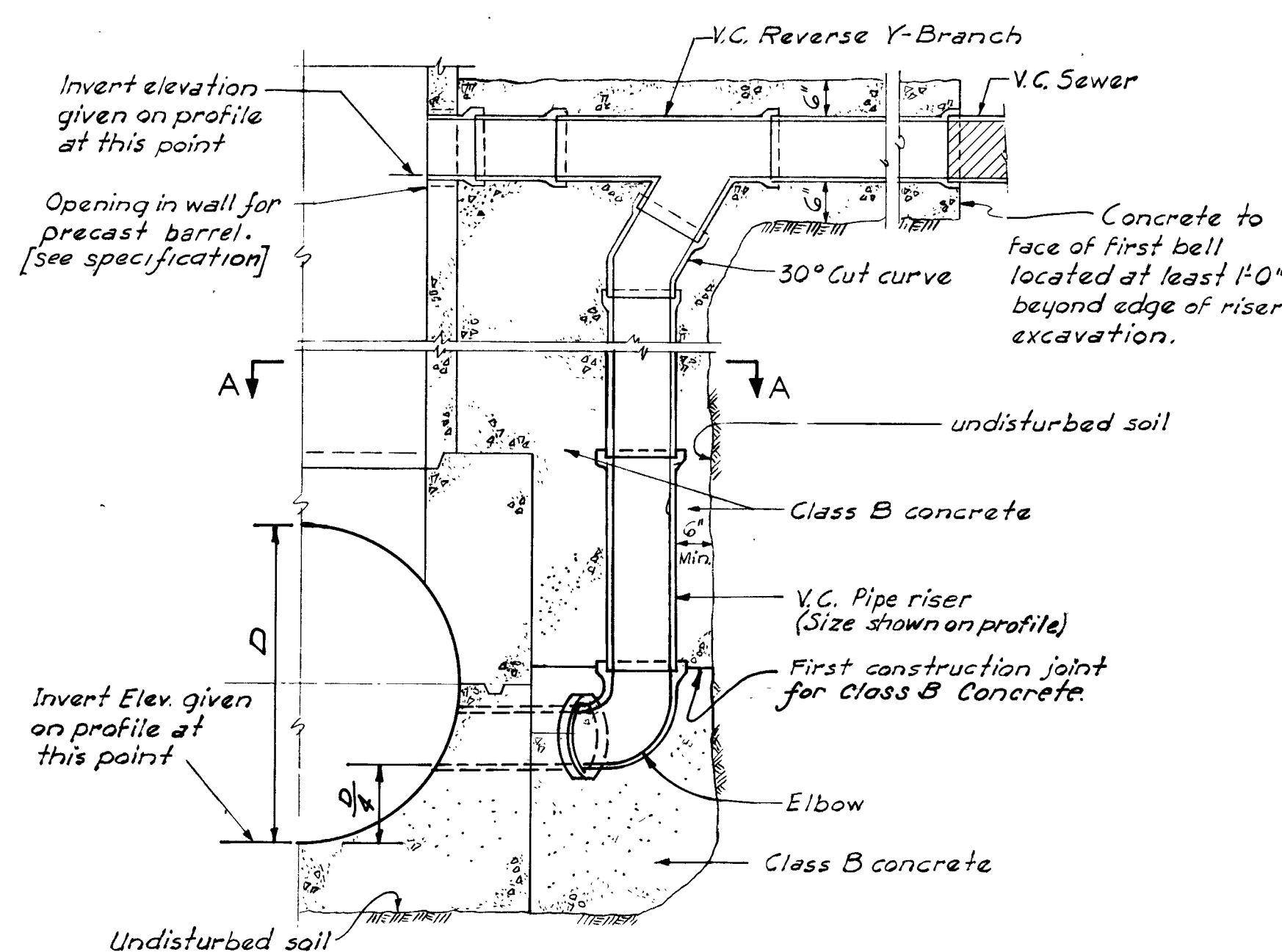
Note:
1. In general, building connections are extended at least to the curb line, but not beyond the street line.
2. Details of 6" V.C. Sewer building connection conform to Typical V.C. Sewer.



SECTION E-E
TYPICAL BUILDING CONNECTION

LEGEND FOR PLANS

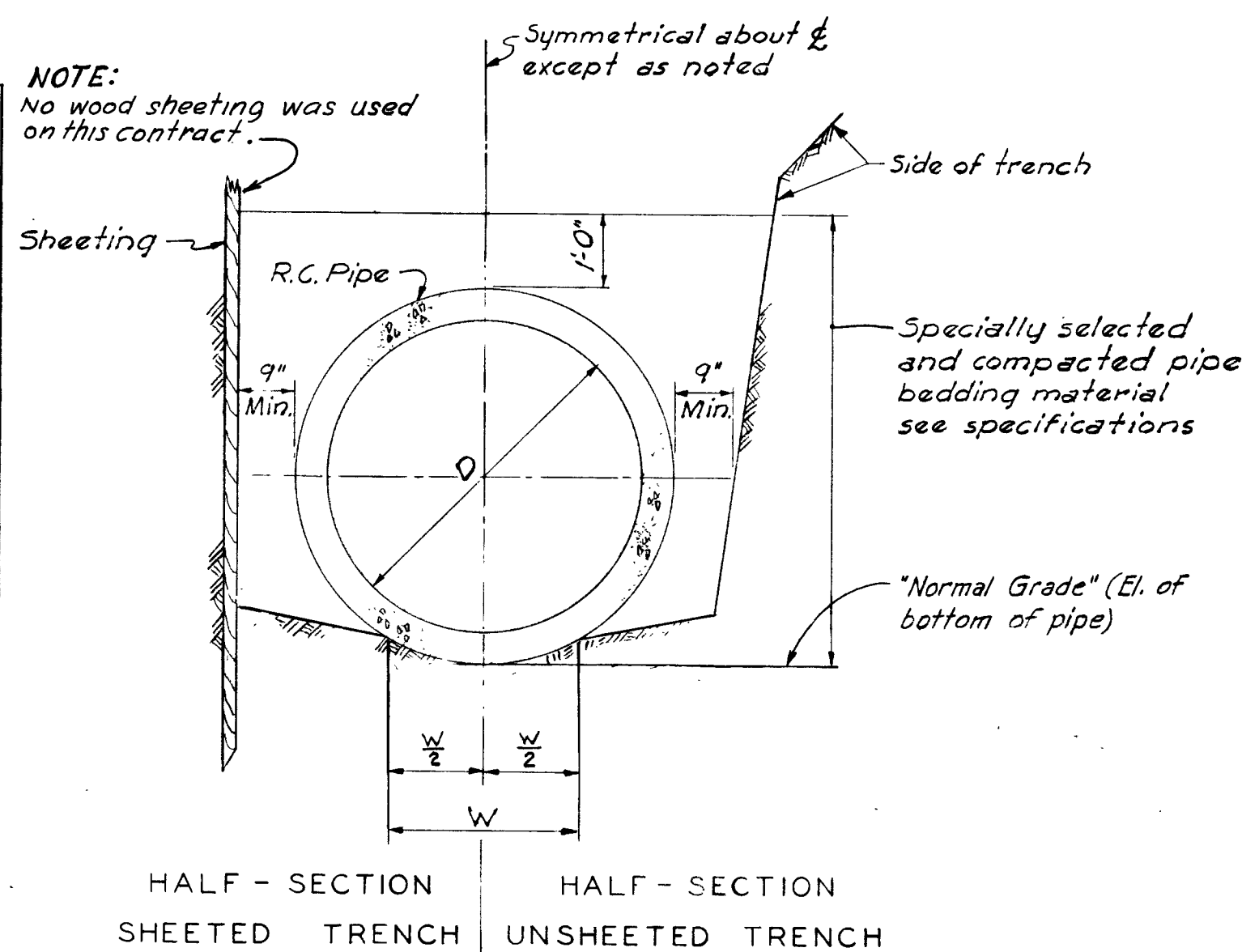
Sanitary sewer with manhole	36"	84"
Sanitary sewer with manhole and drop inlet		DROP
Sanitary sewer with chimney, building connection and stub		
Sanitary sewer with Y-branch stub and building connection		M.H.
Existing sewer or drain with manhole		
Sewer to be constructed by others		
Drainage culvert		
Property line		
Limit of permanent easement		
Limit of temporary easement		
Interior lot line		
Water main		
Gas main		
Telephone or telegraph cable underground		
Electric cable underground		
High tension wire (overhead)		
Tree, other than Palm (with name)		24" oak
Palm tree		8" Palm
Telephone pole		T.P.
Electric pole		E.P.
Fire hydrant		
Water gate valve		W.G.
Water meter		W.M.
Catch basin		C.B.
Existing building		
Test boring with number		G7
Fences	wire	x-x-wood
		stone



SECTION B-B
DROP INLET FOR R.C. PIPE SEWER

Sewer Diameter D	Width of Bedding W	Type of Pipe
8"	8"	V.C.
10"	8"	
12"	8"	
15"	10"	
18"	10"	
21"	1'-0"	
24"	1'-2"	R.C.
30"	1'-8"	
36"	1'-10"	
42"	2'-2"	
48"	2'-5"	
54"	2'-9"	
60"	3'-0"	
66"	3'-4"	
72"	3'-7"	
84"	4'-2"	

NOTE:
No wood sheeting was used on this contract.



TYPICAL R.C. PIPE SEWER

TYPICAL V.C. PIPE SEWER

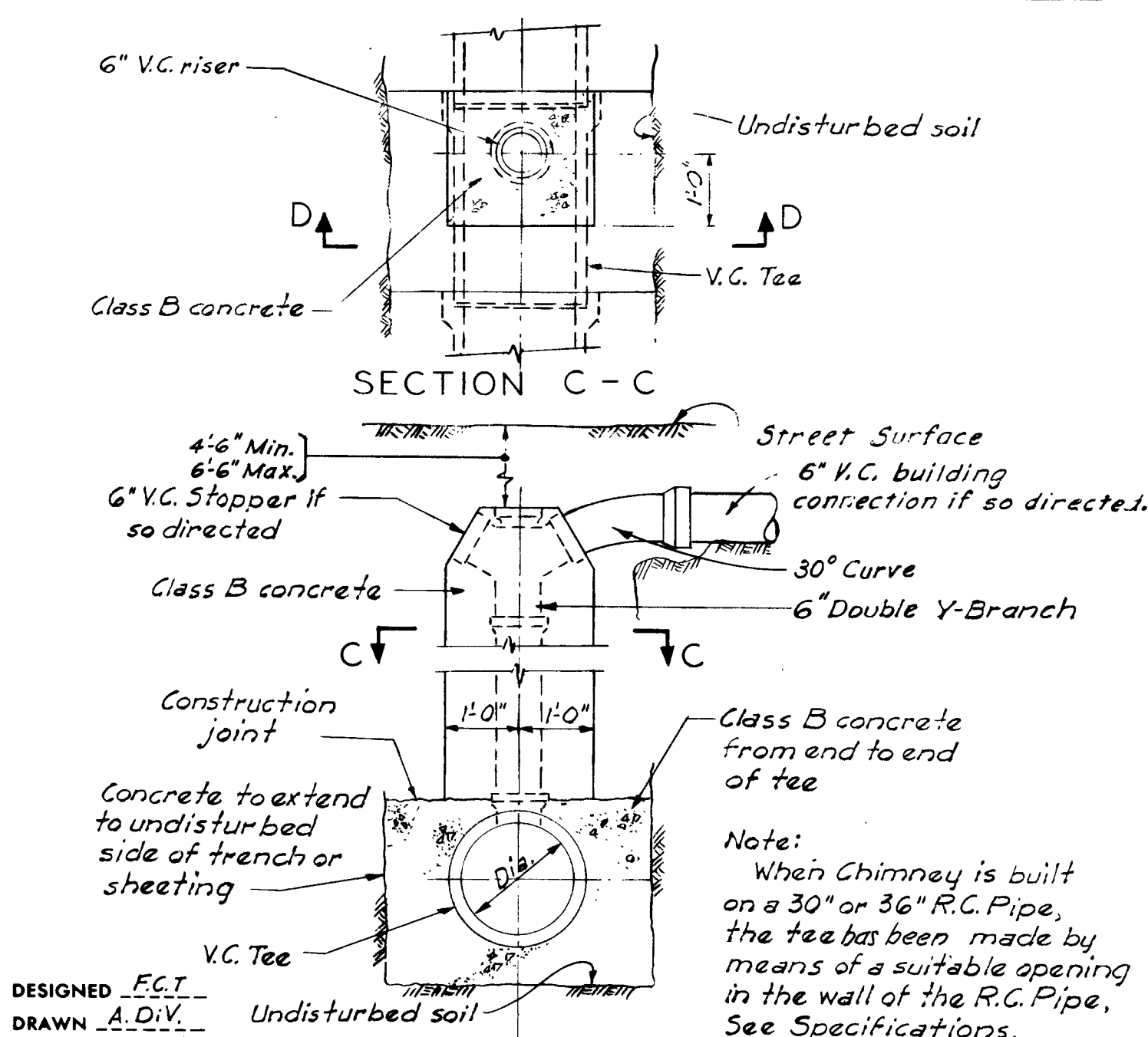
- Trench details for 6" to 24" V.C. Sewers shall be similar to those for "Typical R.C. Pipe Sewer," except that timber supports shall be 2"x6" planks @ 2'-0" o.c. (minimum length 2'-6") if directed by the Engineer.
- Minimum trench width below top of pipe shall be 3'-0" for sewers where "D" equals 15" or less.

ALIGNMENT NOTES

- Angles given on plans are exact, and are for guidance in scheduling the pipe. Stationing is shown to nearest 0.01. Exact alignment was laid out prior to start of construction.
- Unless otherwise noted on the drawings, each change in direction of a concrete pipe sewer has been made by means of a precast pipe bend, or by not more than two beveled-end pipes, or by a combination of a precast bend and one or two beveled-end pipes.
- Changes in direction of vitrified-clay pipe sewers have been made only at manholes.

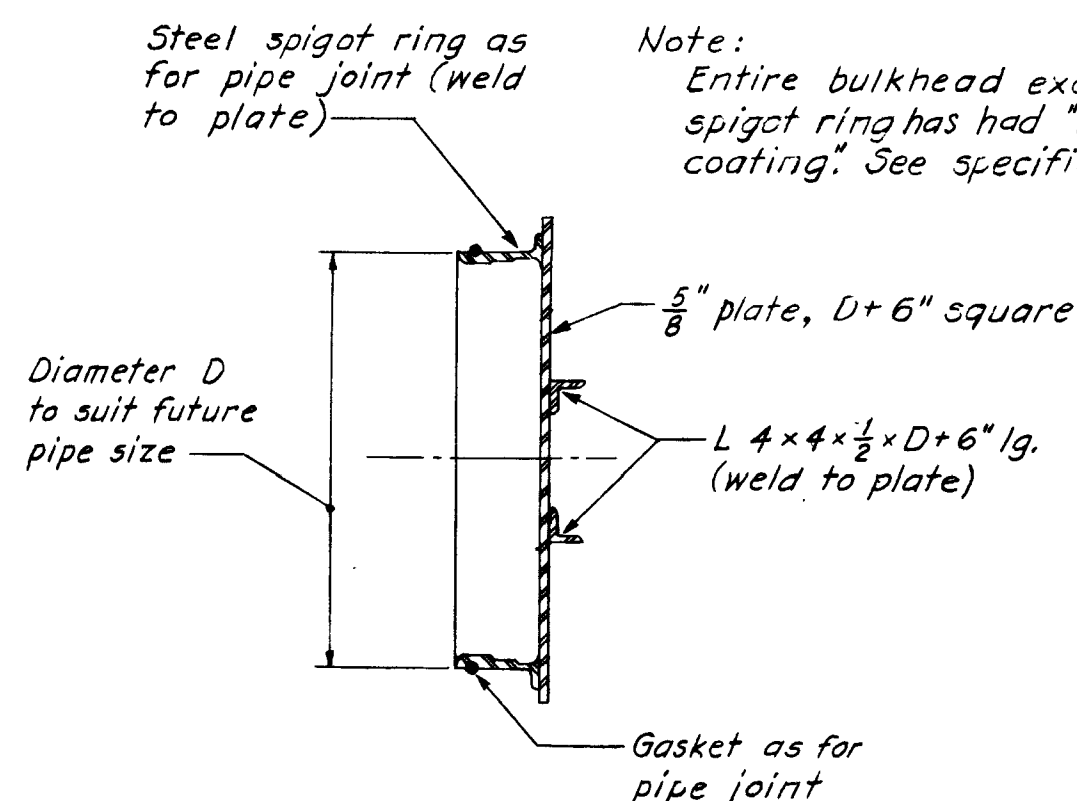
GENERAL NOTES

- Elevations refer to Jacksonville City Datum which is 0.39 ft. above mean sea level.
- Information on these drawings pertaining to existing structures and underground utilities is not known to be complete or accurate, but is based upon the best available information.
- Test pits (for locating existing underground utilities prior to construction of new works) have been excavated and backfilled by the contractor if and as directed.
- If excavation and backfill below normal grade was required, the width and depth of excavation, and the depth to which sheeting must be driven, has been determined by the Engineer.
- Indicated locations of building connections, chimneys and Y-branch stubs are approximate. Actual locations have been determined at time of construction.
- The terms "Building Connection" and "House Connection" have the same meaning.



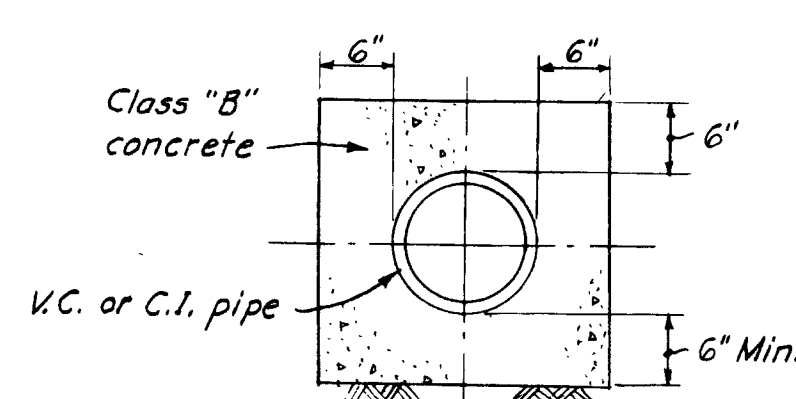
DESIGNED F.C.T.
DRAWN A.D.V.
TRACED A.D.V.
CHECKED A.J.C.
PROJECT ENGINEER

SECTION D-D
CHIMNEY



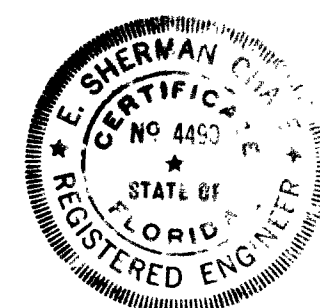
SECTION
STEEL BULKHEAD

NOT TO SCALE



TYPICAL ENCASEMENT
FOR 8" TO 24" SEWERS

NOT TO SCALE



APPROVED					
FOR CITY OF JACKSONVILLE					
CITY ENGINEER		DATE			
REG. PROF. ENGR. FLA. NO. 4921		12/23/58			
FOR METCALF & EDDY					
REG. PROF. ENGR. FLA. NO. 4490		DATE			
12/23/58					
NO.	DATE	REVISION	CHK'D.	APPR'D.	

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CITY OF JACKSONVILLE, FLORIDA

1958 SEWERAGE PROGRAM

TRUNK SEWERS

STANDARD DETAILS-1

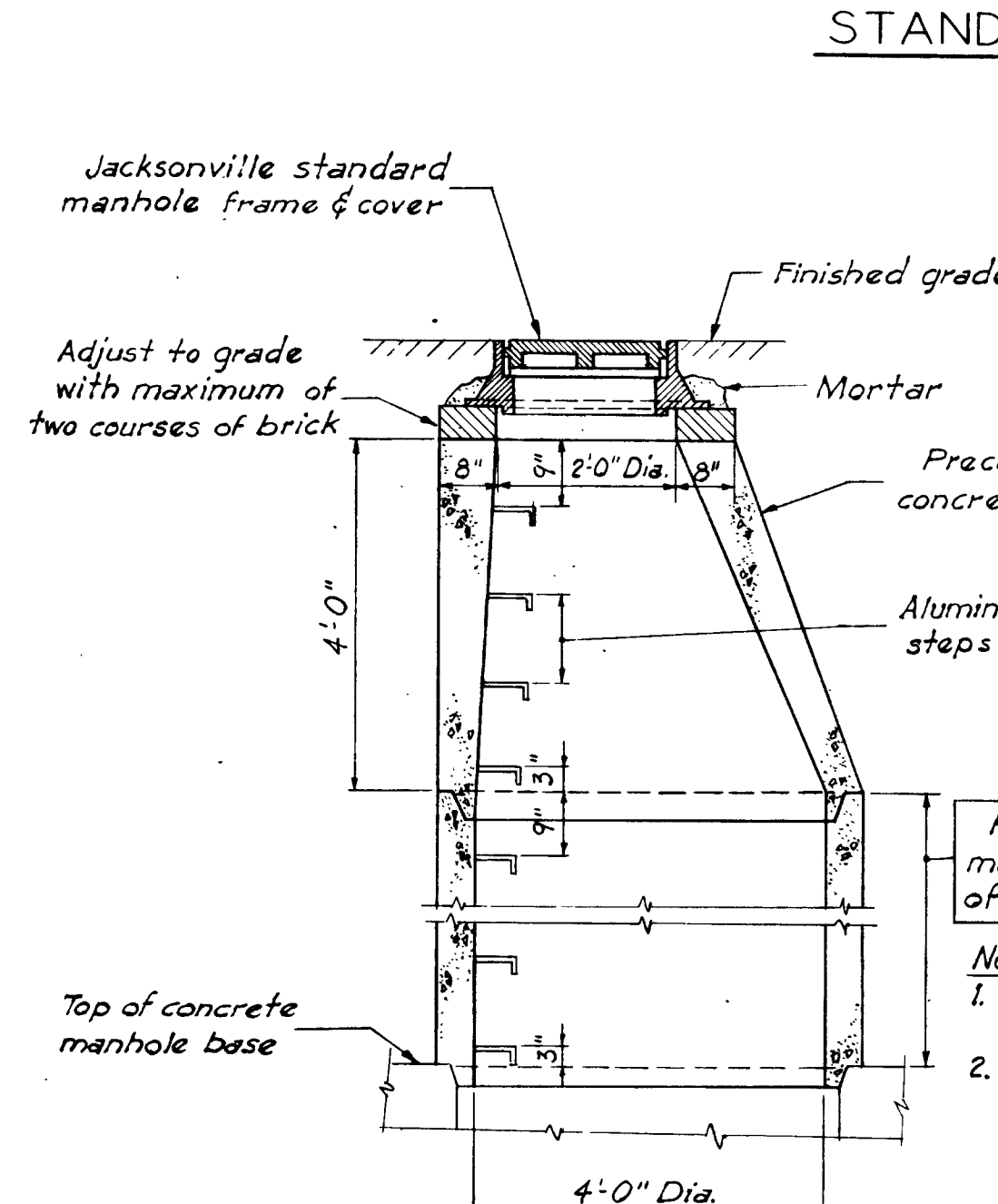
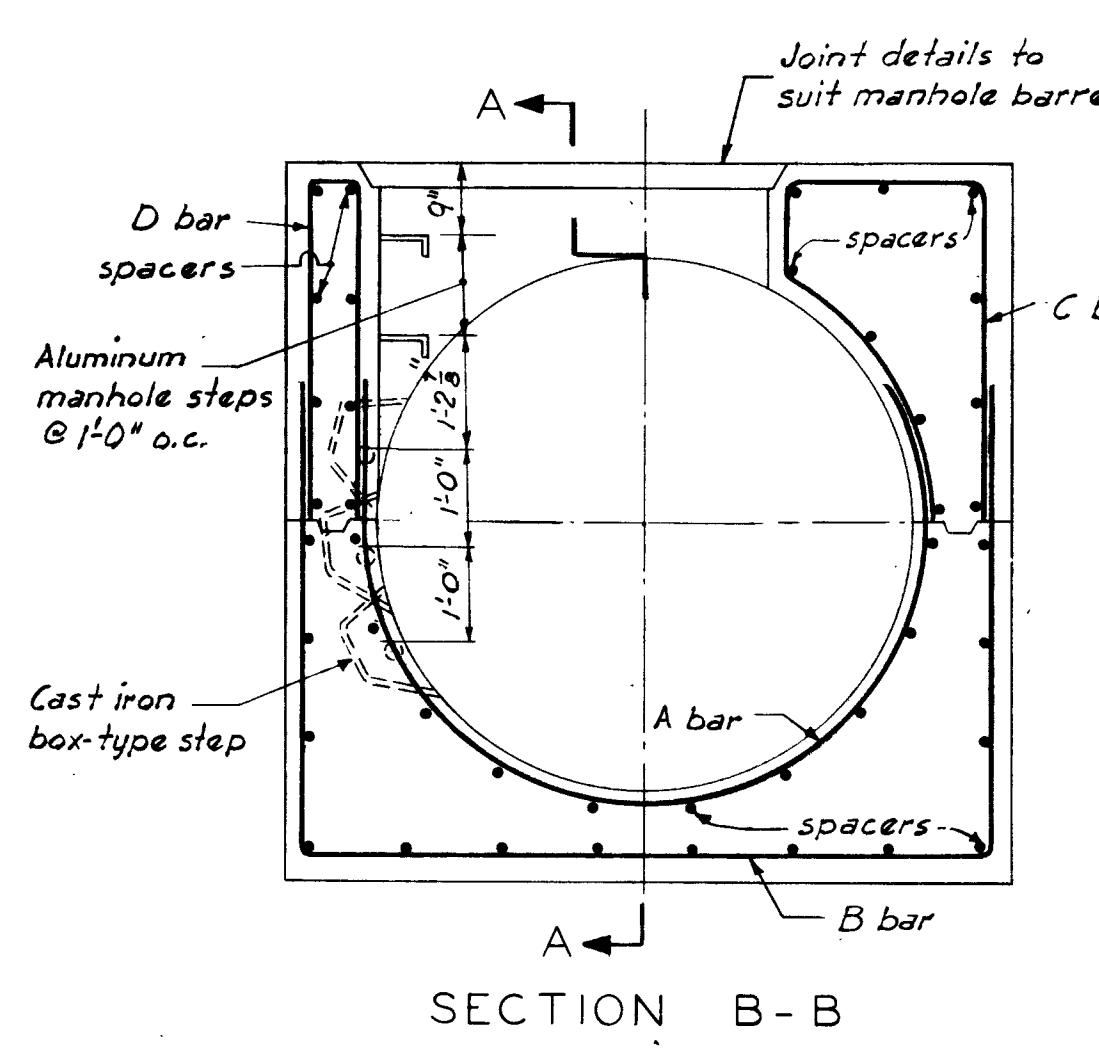
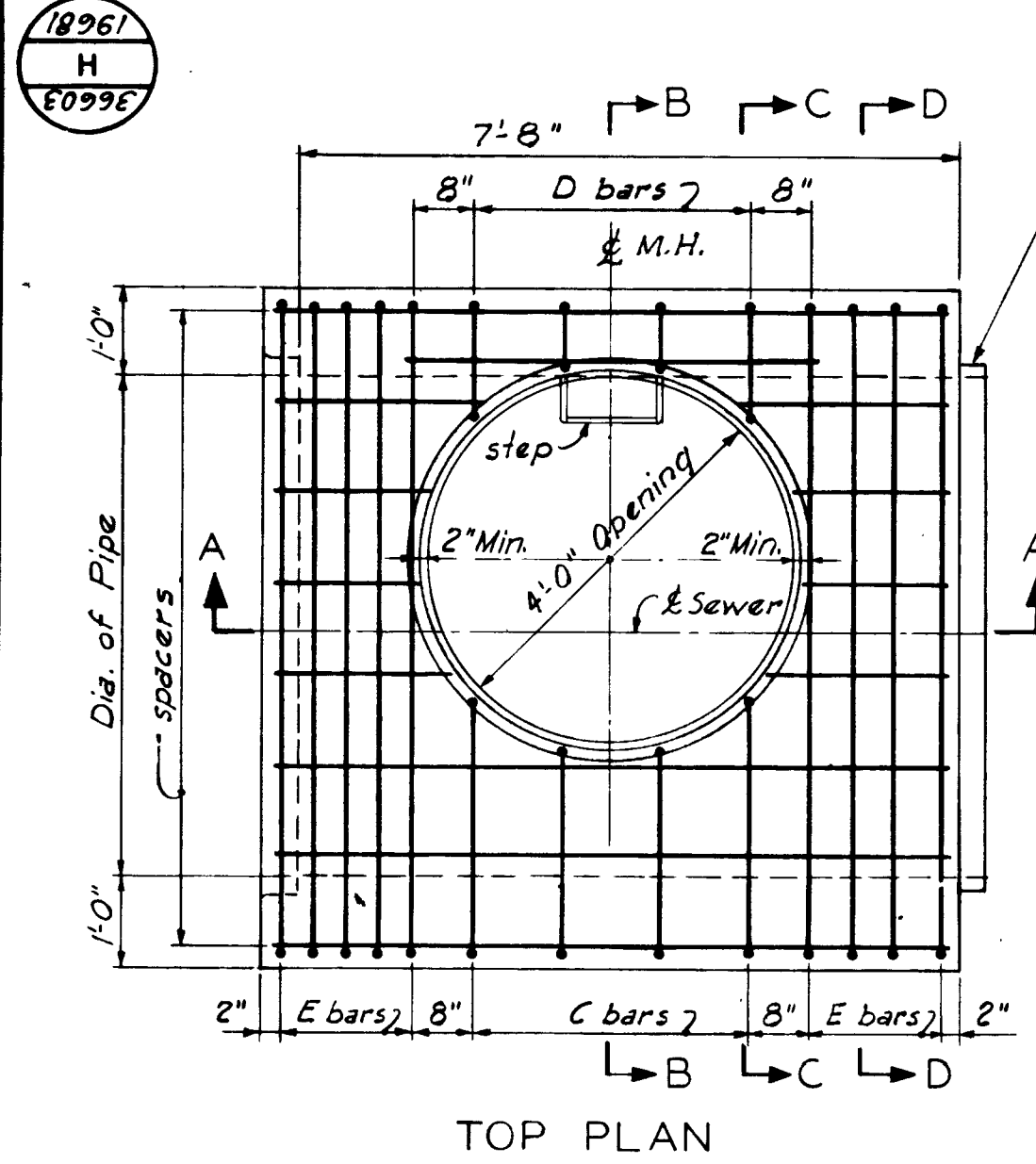
SCALE 1/2" = 1'-0"

DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

36602
H
19680

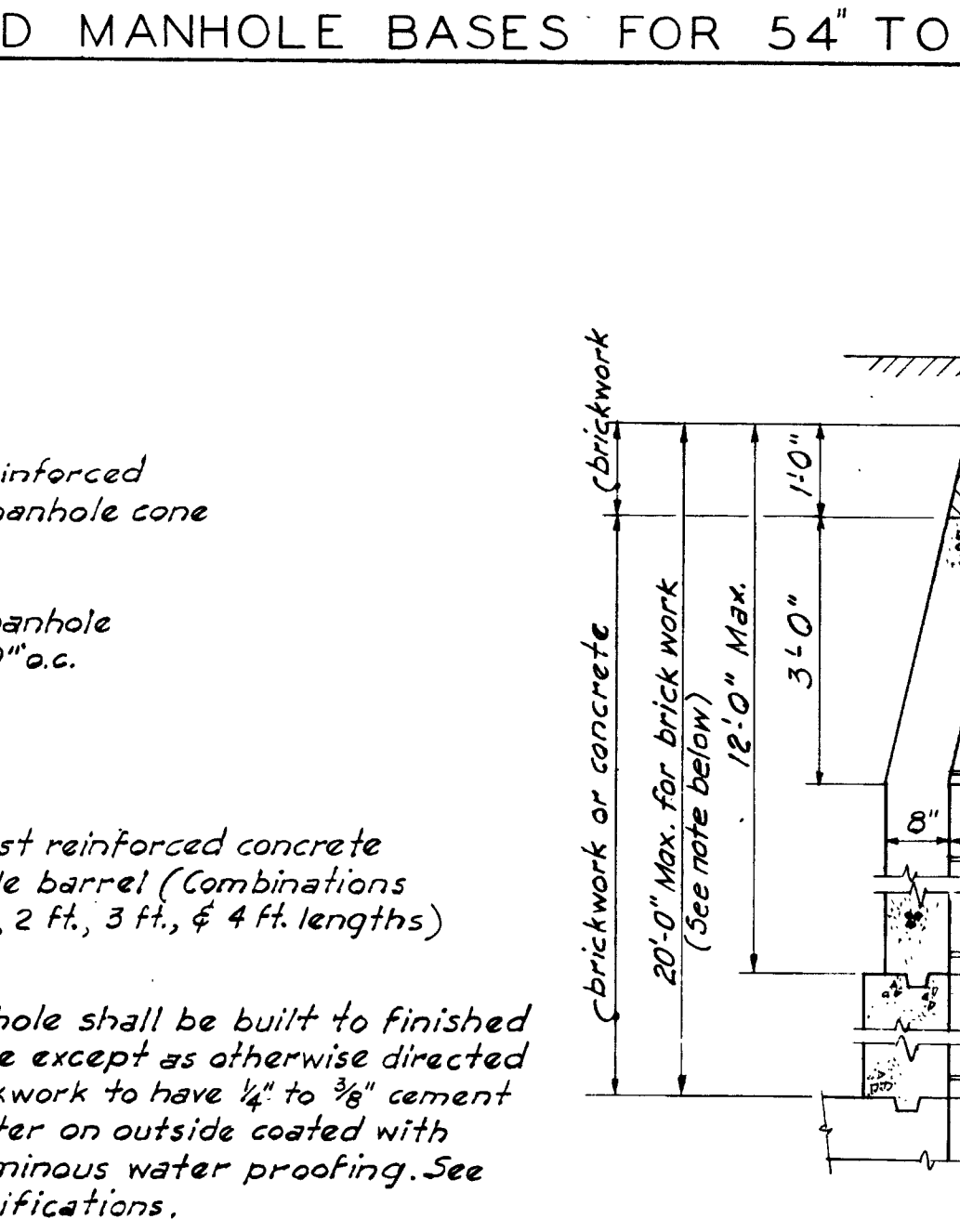
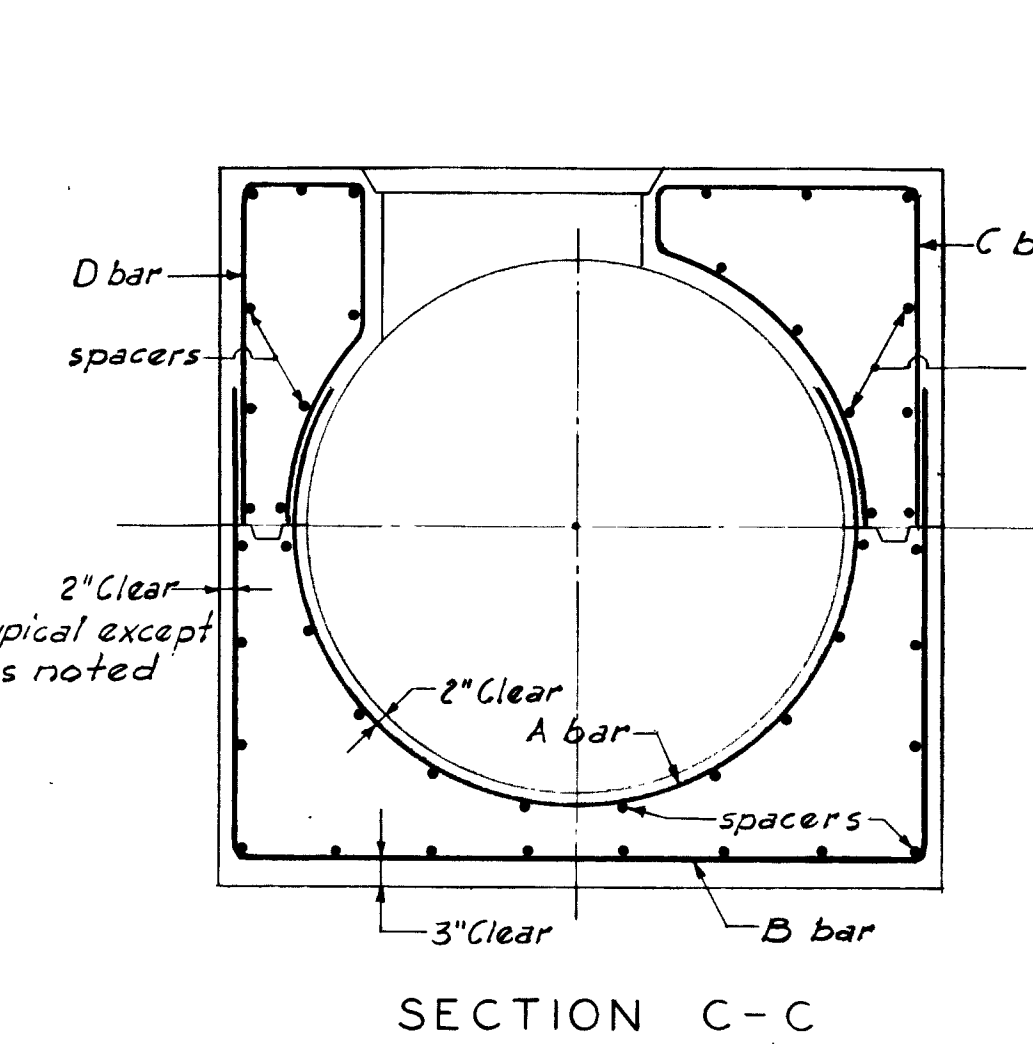
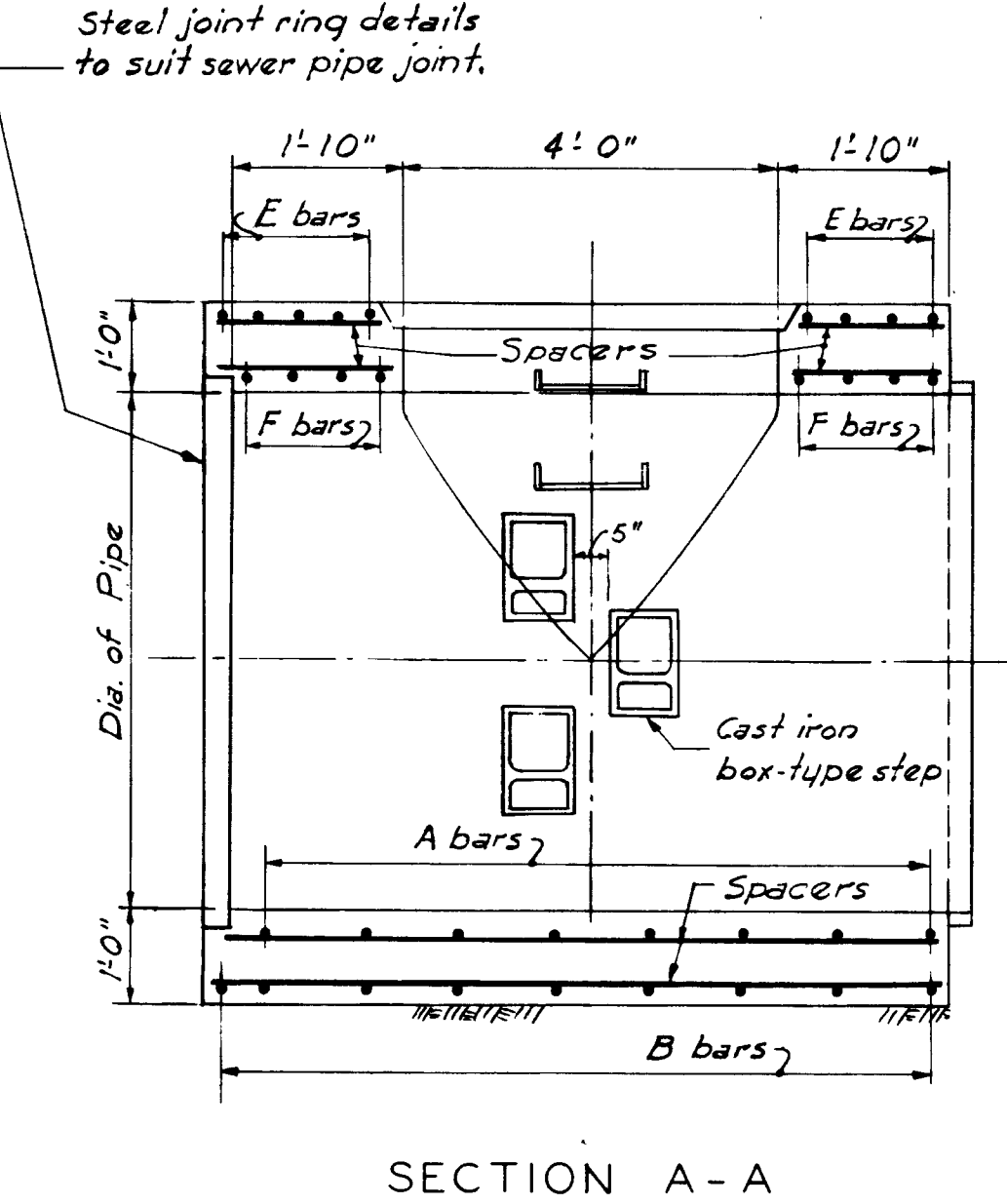
18261
H
E099E



PRECAST BARREL & CONE

STANDARD MANHOLE
DETAILS ABOVE BASE

DESIGNED F.C.T.
DRAWN A.O.V.
TRACED A.O.V.
CHECKED A.C.C.
PROJECT ENGINEER



BUILT-IN-PLACE BARREL & CONE

STANDARD MANHOLE
DETAILS ABOVE BASE

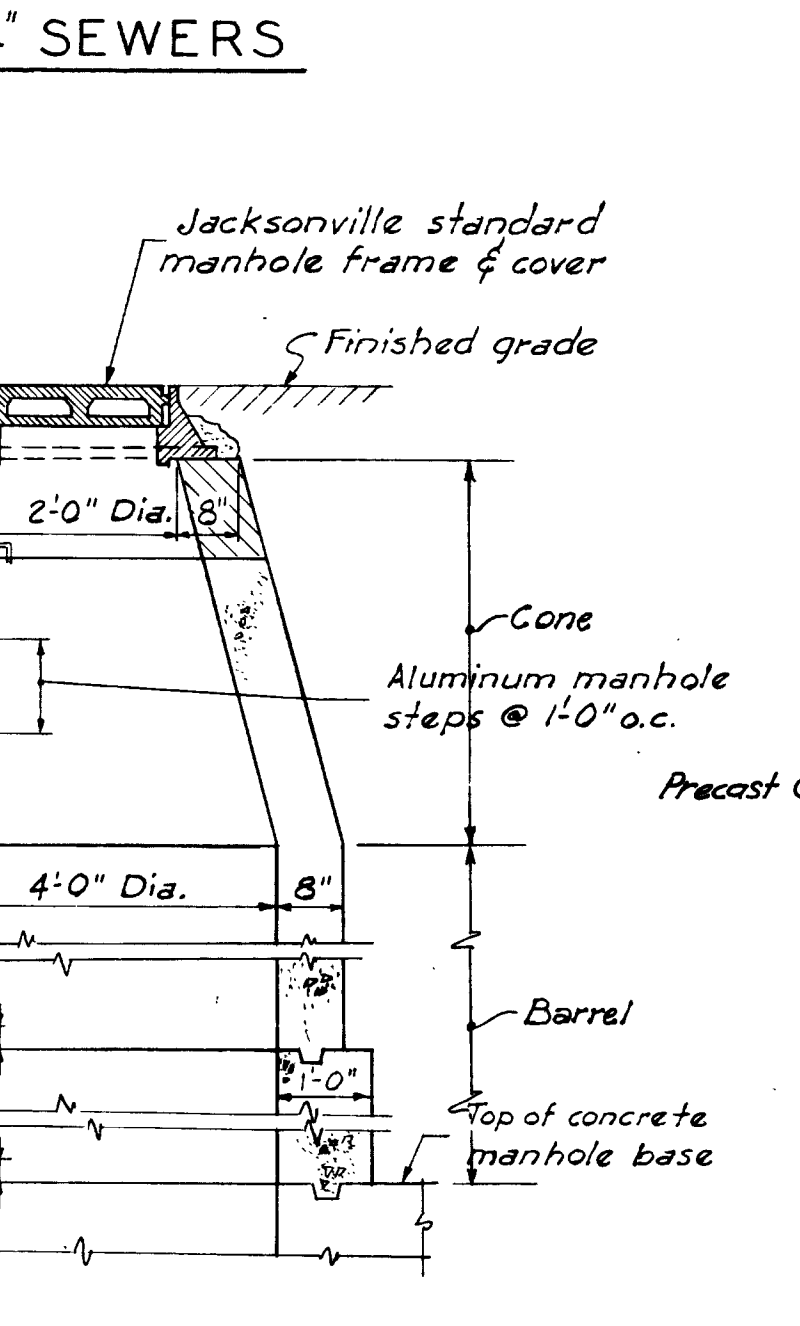
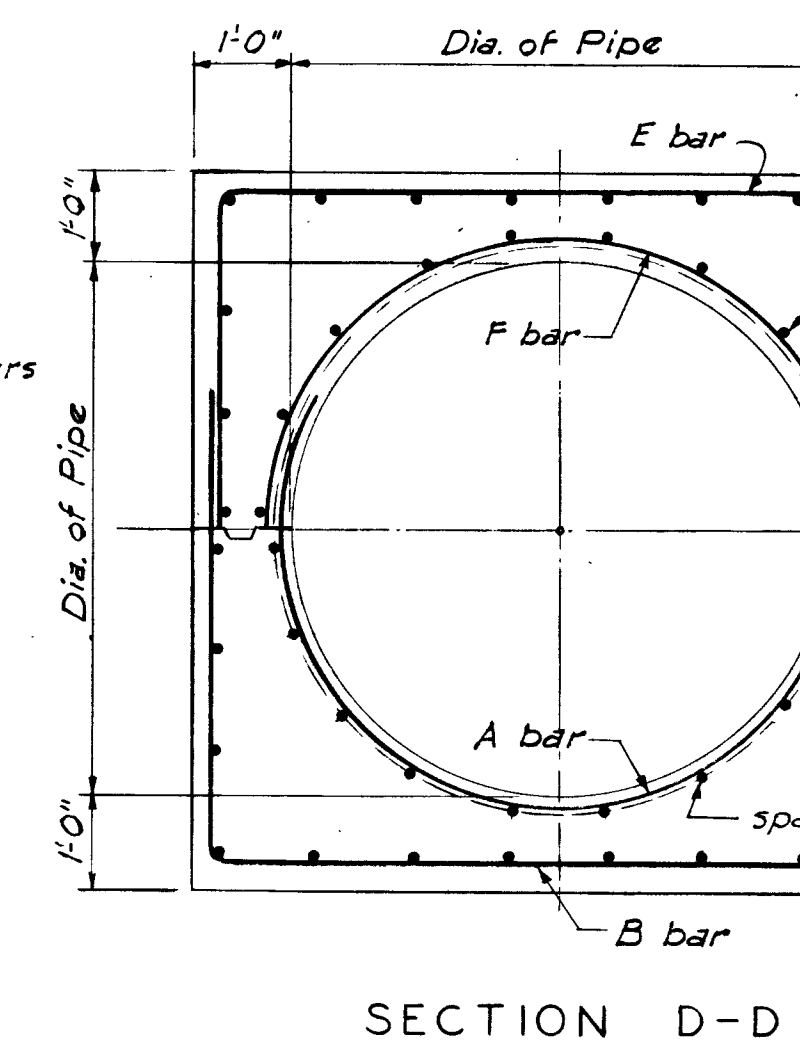
Concrete must be used for any portion of manhole barrel which is more than 20'-0" below top of cone.

SCHEDULE OF REINFORCEMENT AND MANHOLE STEPS

BAR TYPE	84"	72"	66"	60"	54"
A	8-#7	8-#5	8-#5	8-#5	8-#4
B	9-#5	9-#5	9-#5	9-#5	9-#4
C	4-#6	4-#6	4-#6	4-#6	4-#5
D	4-#5	4-#5	4-#5	4-#5	4-#4
E	9-#6	9-#6	9-#6	9-#6	9-#5
F	8-#8	8-#7	8-#7	8-#7	8-#6

All spacers #5 @ 12"

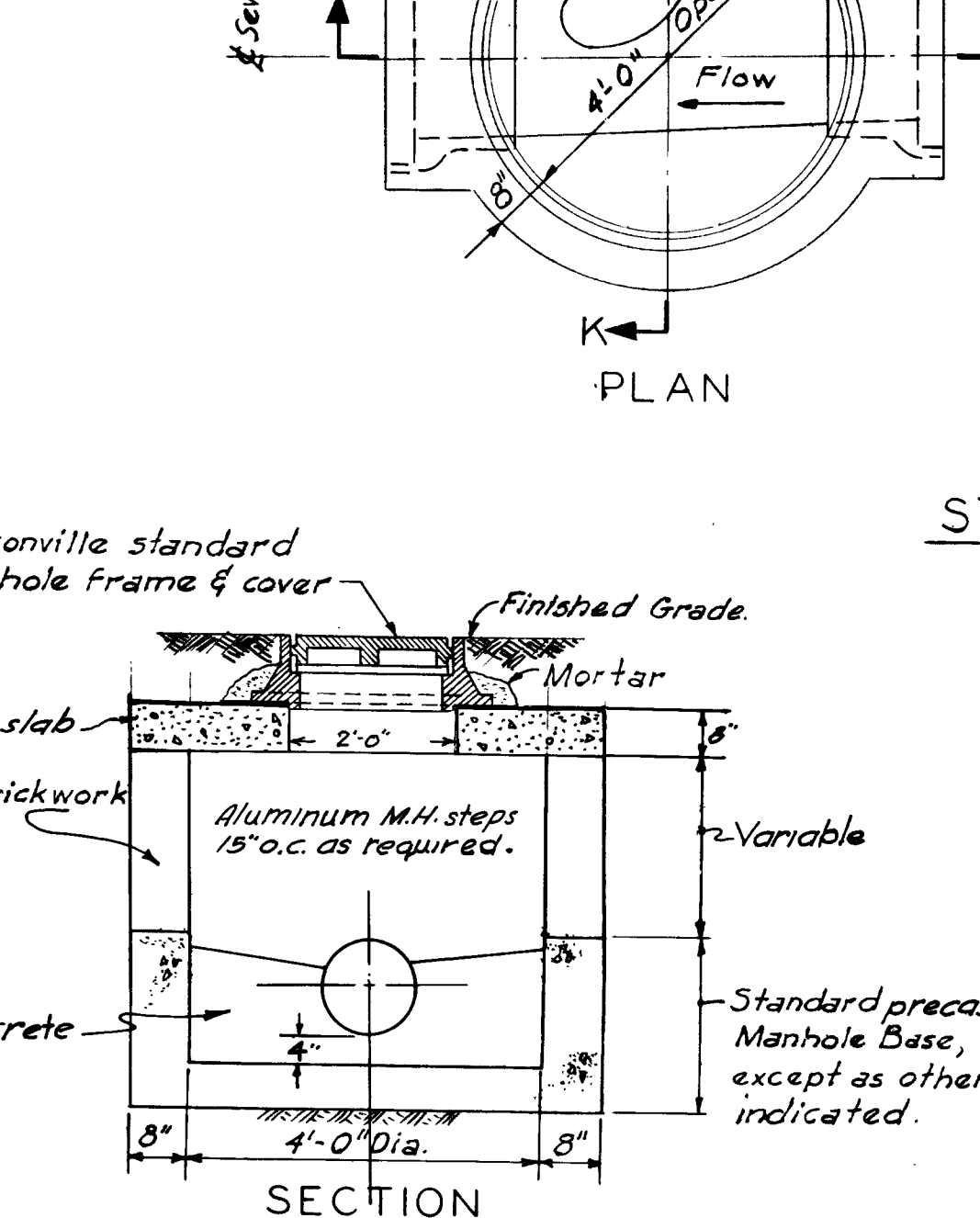
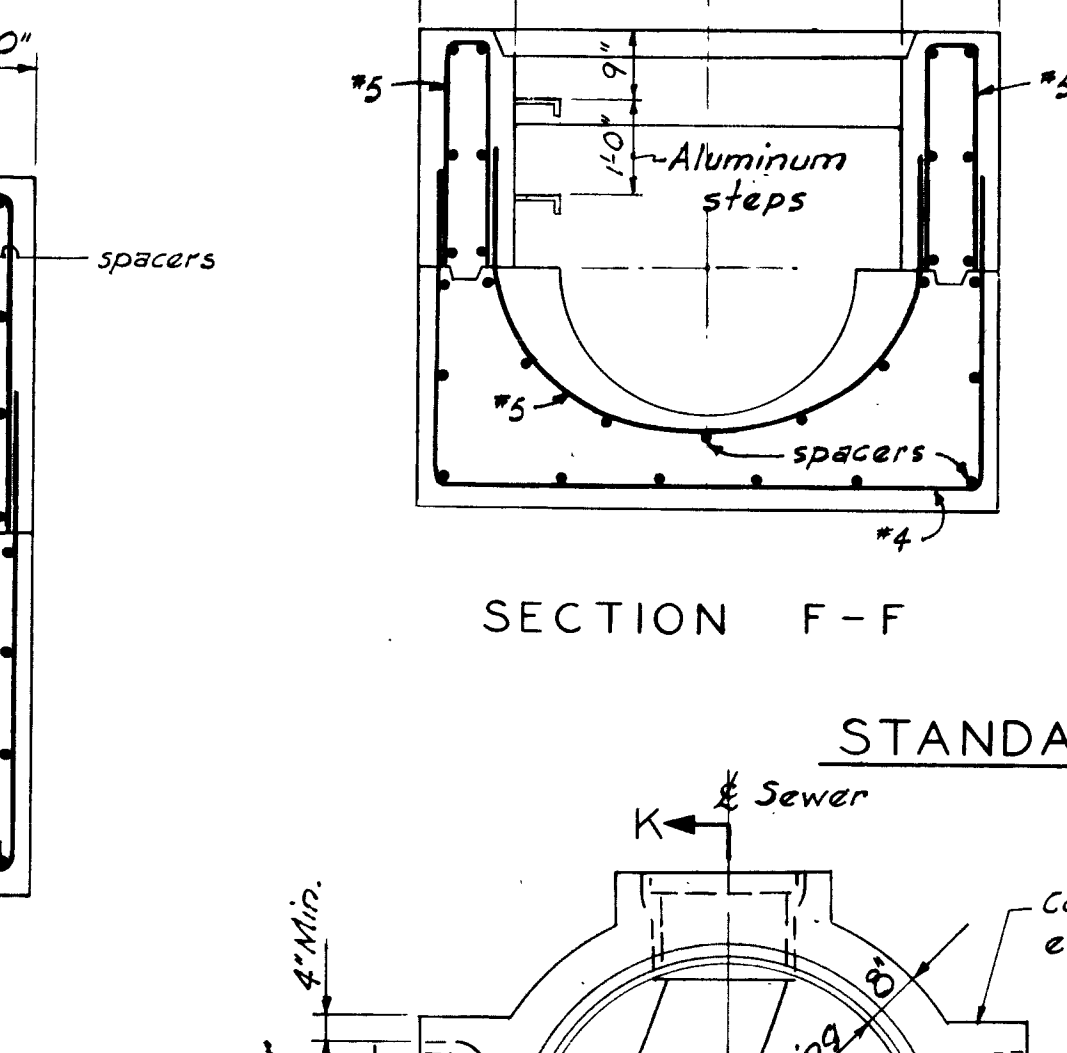
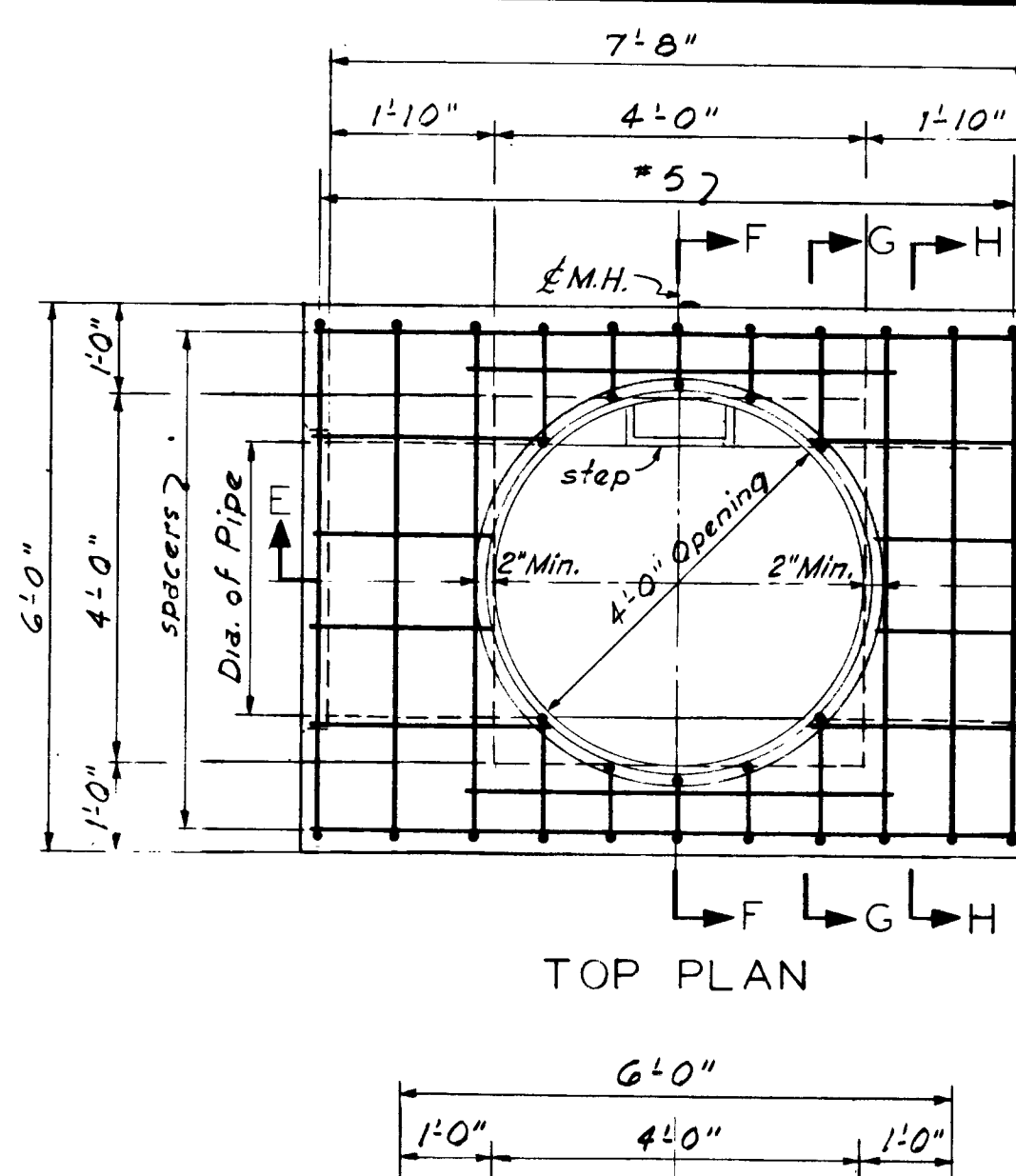
No. of Aluminum M.H. steps	3	3	2	2	2
No. of Box-type steps	4	3	3	3	2



SHALLOW MANHOLE

FOR USE WHERE DEPTH IS INSUFFICIENT FOR STANDARD CONE

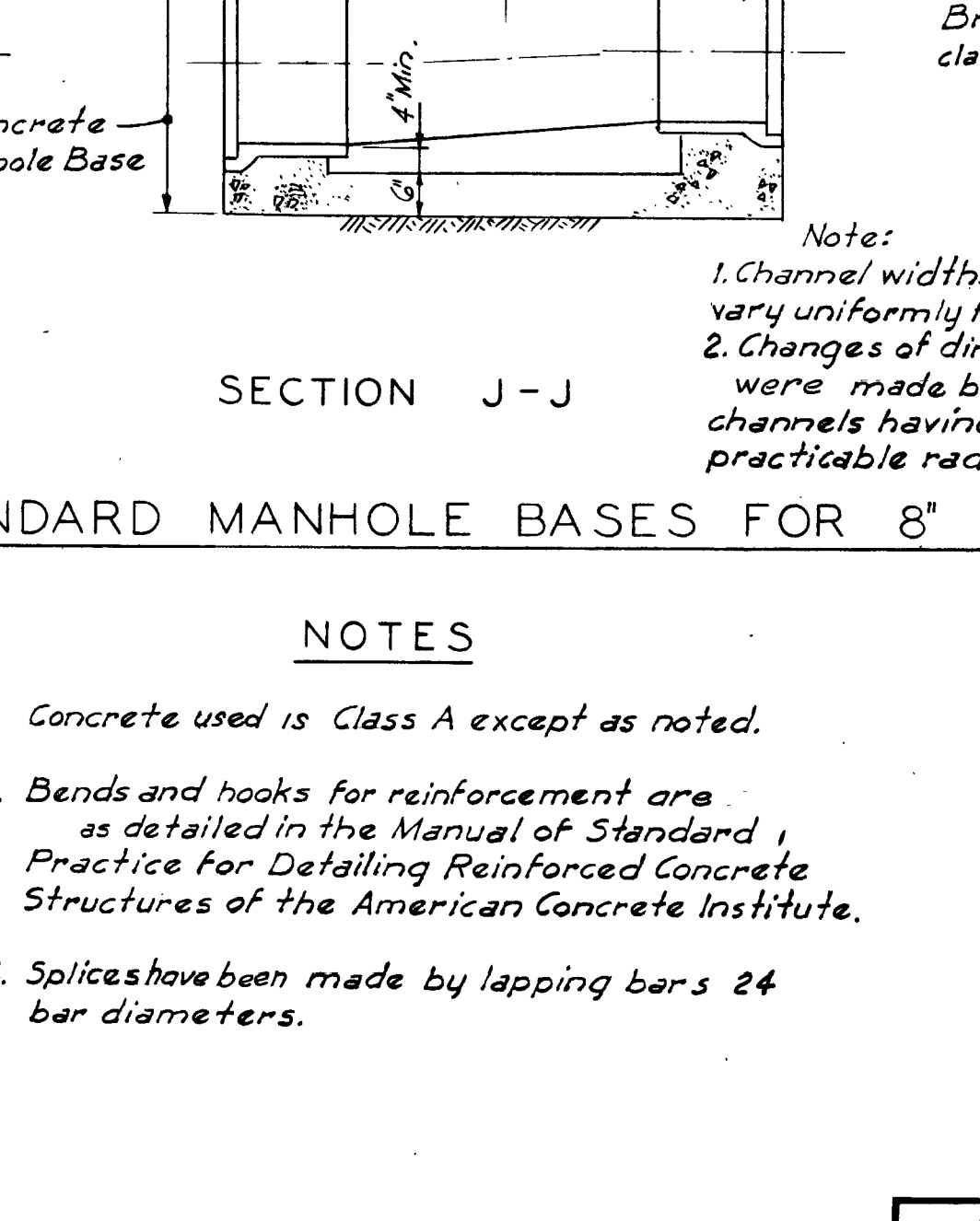
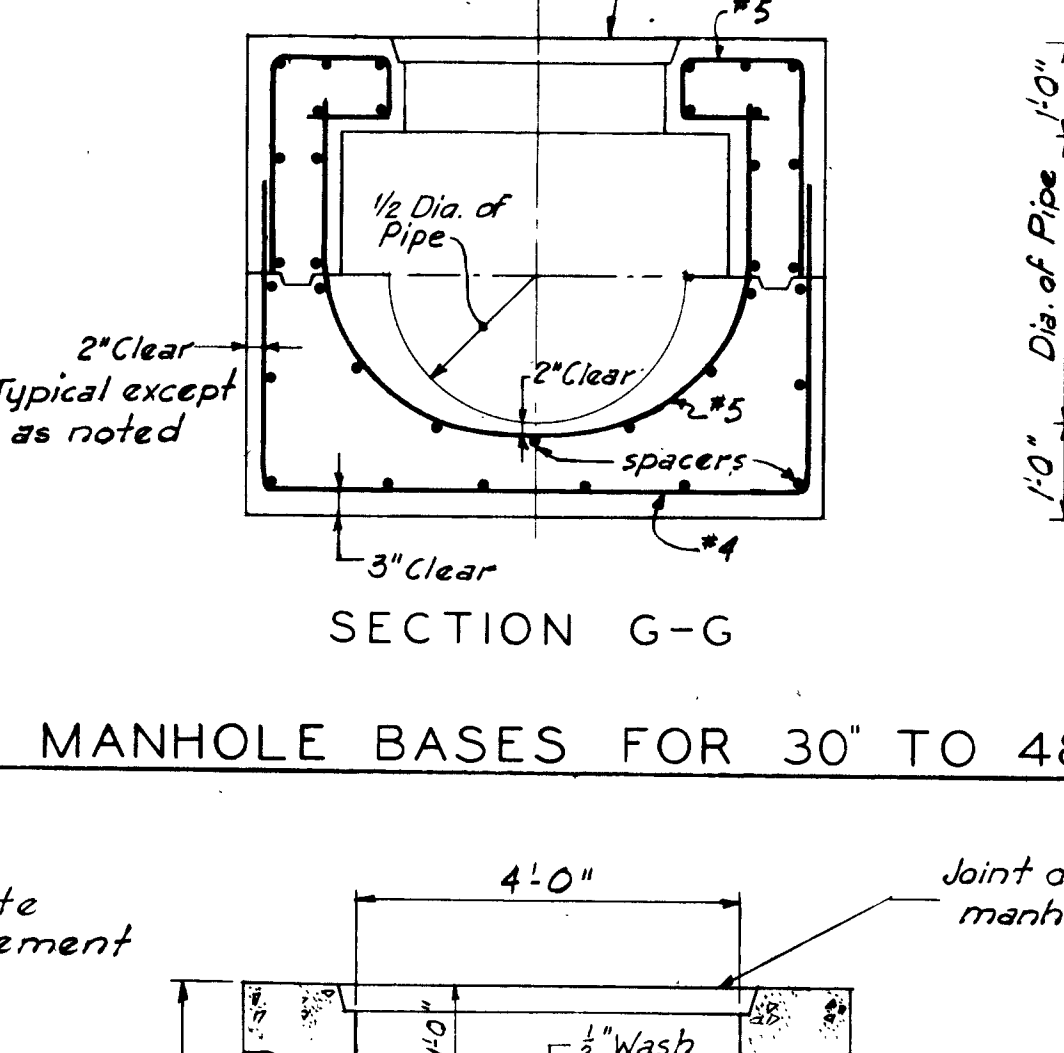
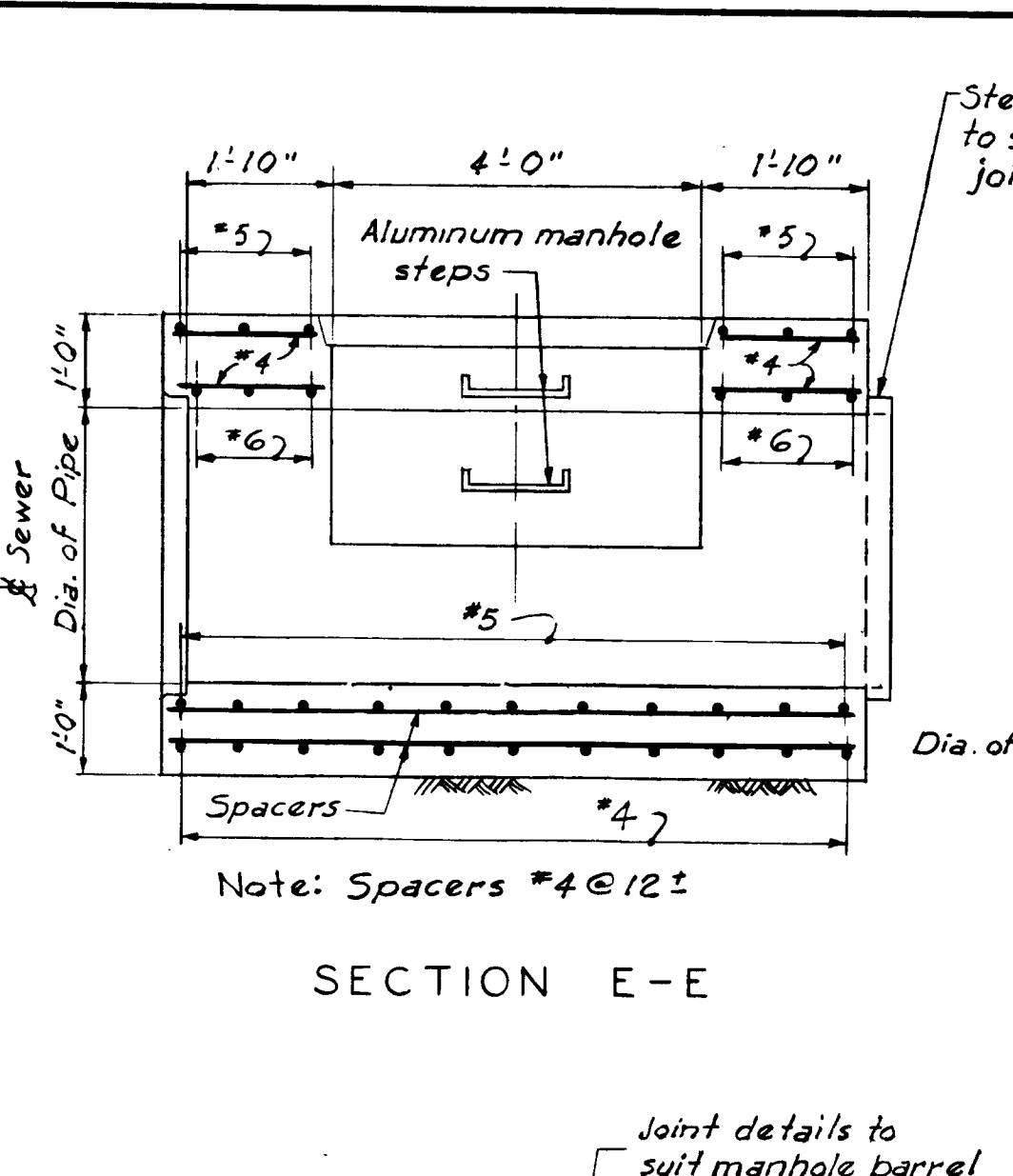
APPROVED FOR CITY OF JACKSONVILLE
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/58



STANDARD MANHOLE BASES FOR 8" TO 24" SEWERS

NOTES

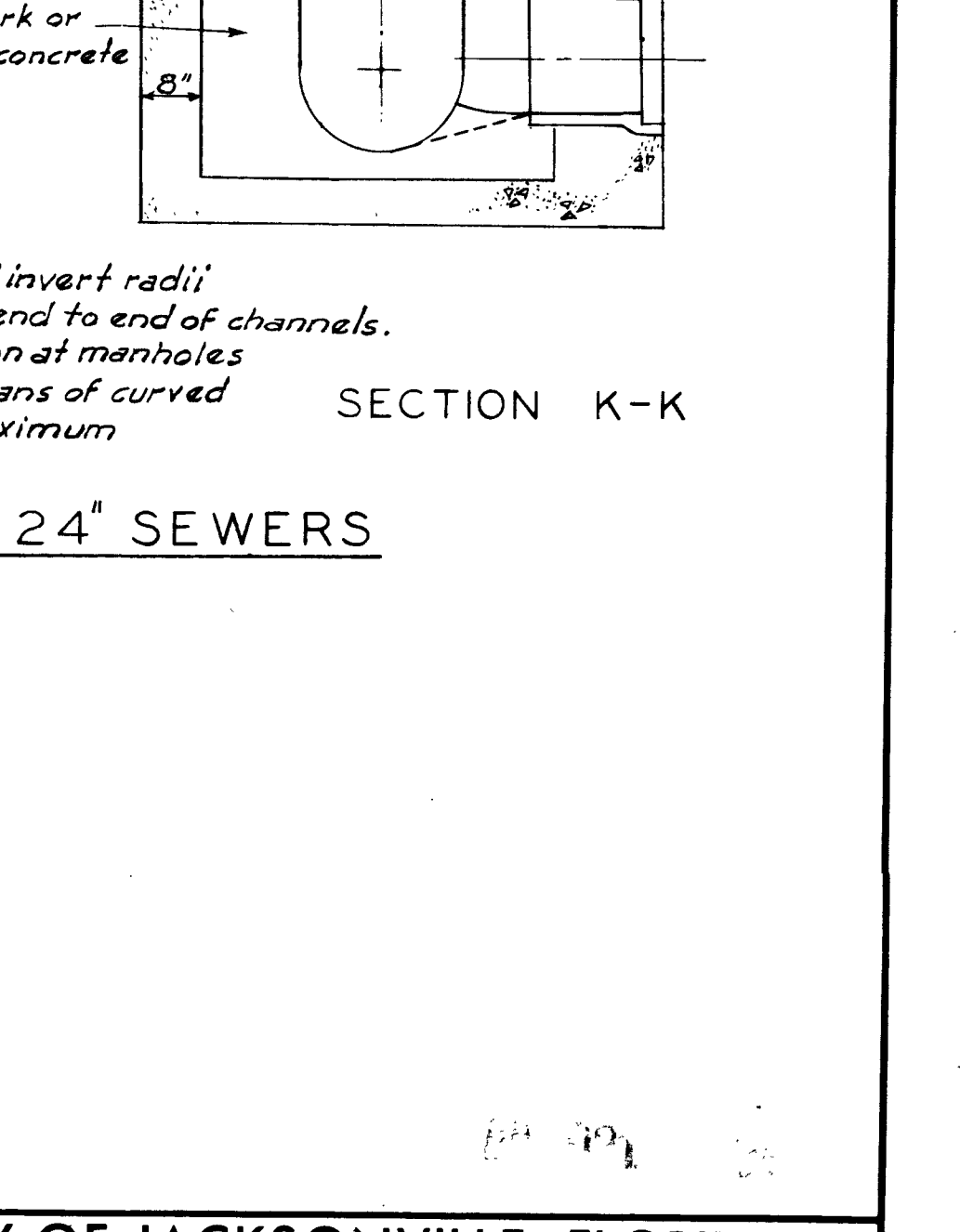
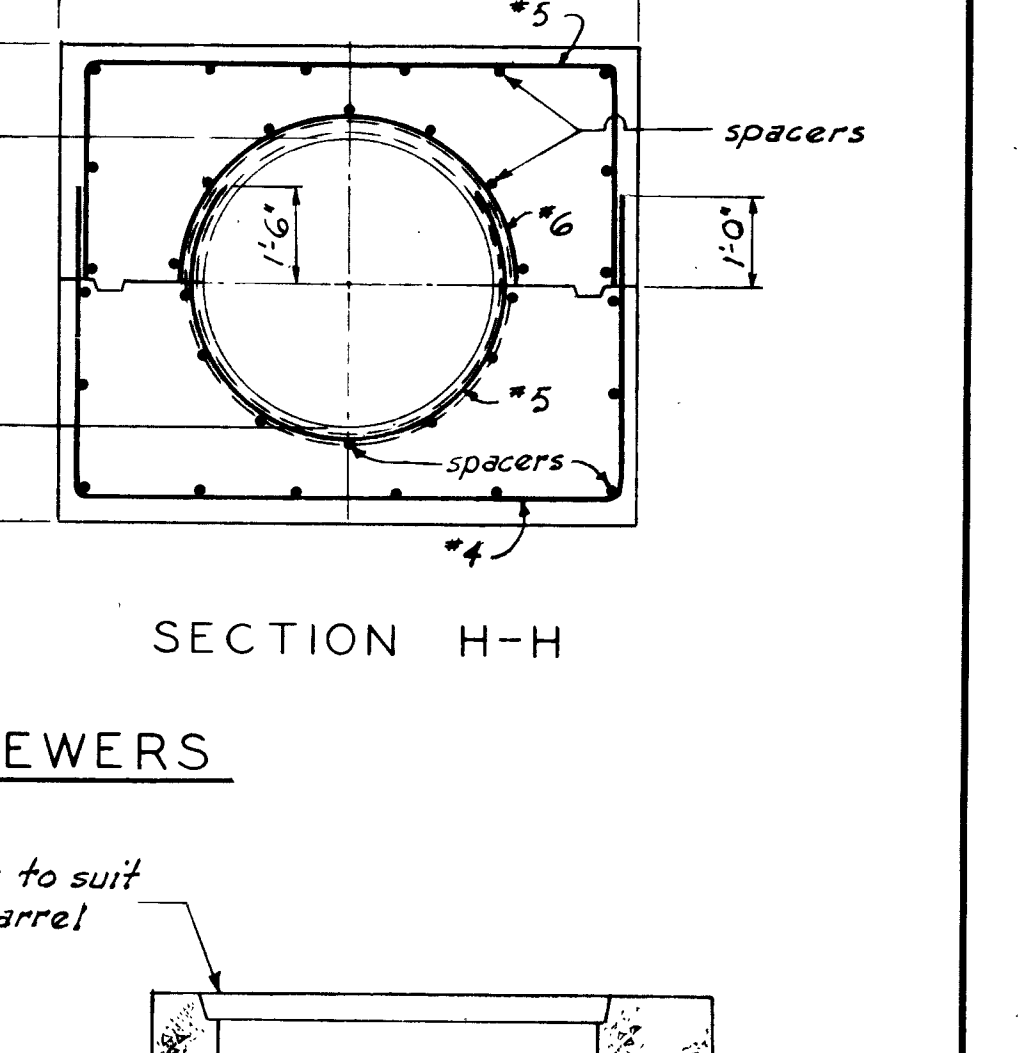
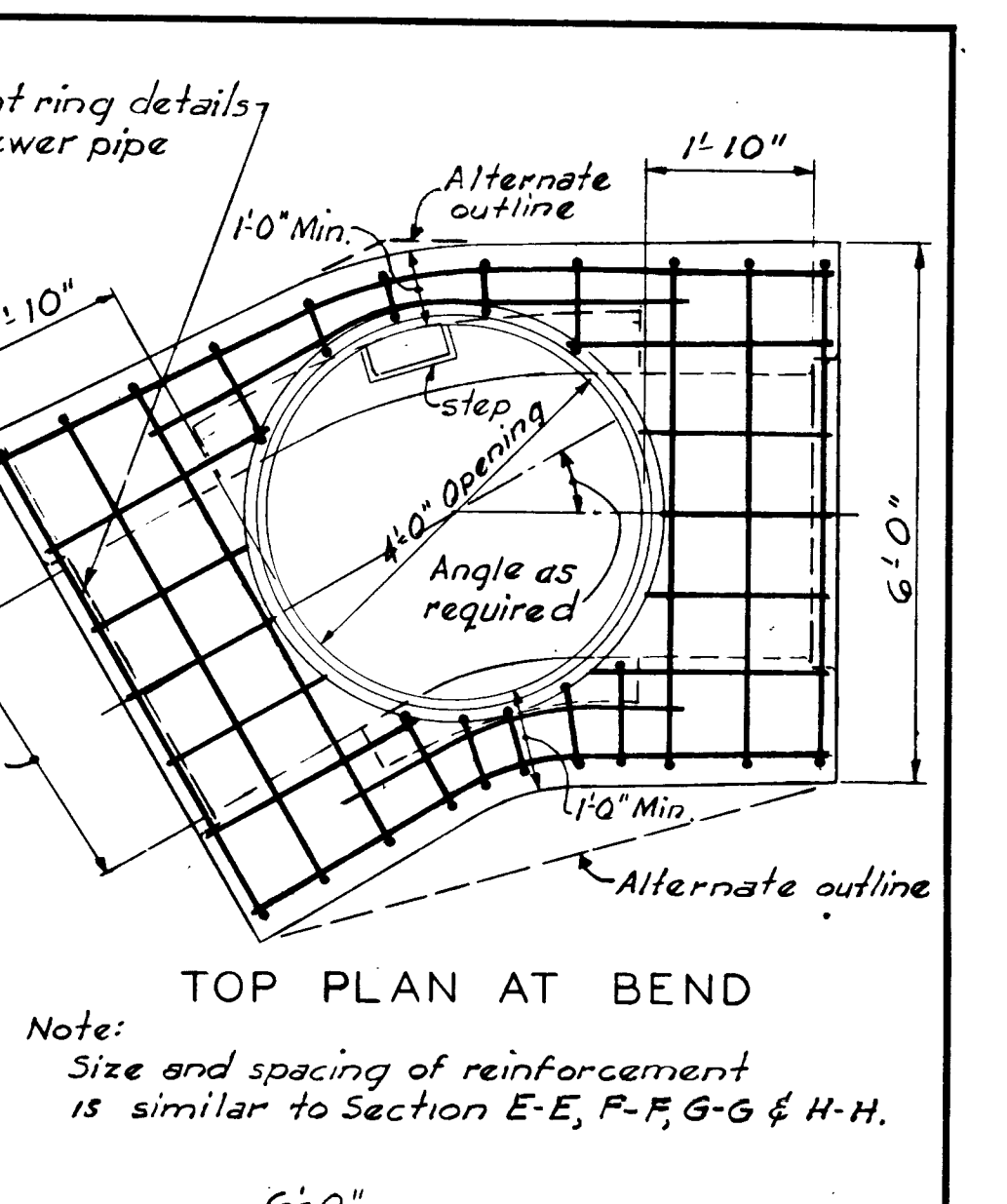
- Concrete used is Class A except as noted.
- Bends and hooks for reinforcement are as detailed in the Manual of Standard Practice for Detailing Reinforced Concrete Structures of the American Concrete Institute.
- Splices have been made by lapping bars 24 bar diameters.



STANDARD MANHOLE BASES FOR 30" TO 48" SEWERS

NOTES

- Channel widths and invert radii vary uniformly from end to end of channels.
- Changes of direction at manholes were made by means of curved channels having maximum practicable radii.



STANDARD MANHOLE BASES FOR 30" TO 48" SEWERS

NOTES

- Channel widths and invert radii vary uniformly from end to end of channels.
- Changes of direction at manholes were made by means of curved channels having maximum practicable radii.

CITY OF JACKSONVILLE, FLORIDA
1958 SEWERAGE PROGRAM

TRUNK SEWERS

STANDARD DETAILS-2

SCALE 1/2" = 1'-0"

DECEMBER 1958

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

14657

APPROVED FOR CITY OF JACKSONVILLE
CITY ENGINEER
REG. PROF. ENGR. FLA. NO. 4490
DATE 12/23/58

NO. DATE REVISION

12/23/58 AS BUILT

C.E.L. J.A.C.

CHK'D. APPR'D.