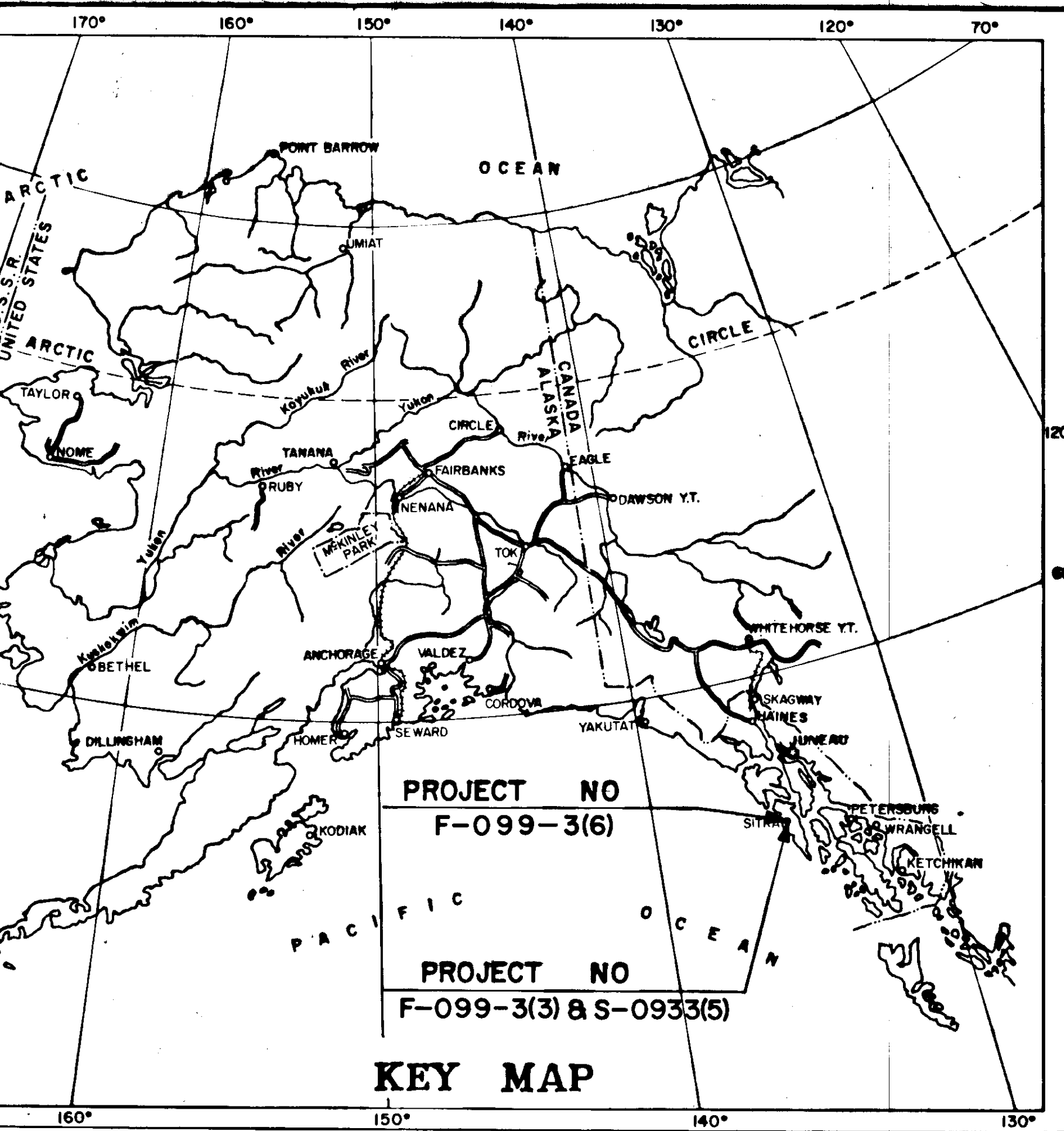


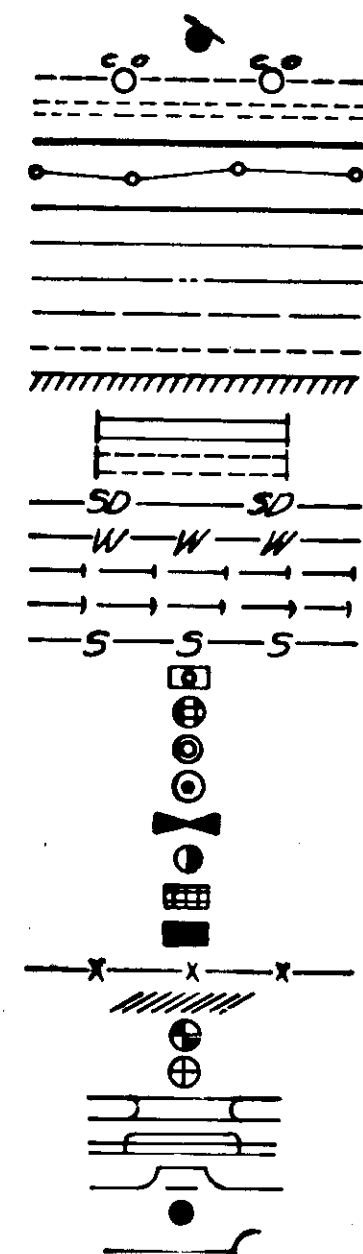


NOTE: Minor Equations not Shown.

CONVENTIONAL

SIGNS

THE RANGE MARKER
UT
D WAY
D CONSTRUCTION CENTERLINE
ARY SURVEY LINE
IP LINE
LINE
Y LINE
WAY LINE
T LINE
ATED OR CITY LIMITS
PROPOSED
EXISTING
DRAIN
LINE PROPOSED
LINE EXISTING
LINE EXISTING
LINE SANITARY
BASIN
H BASIN EXISTING
E EXISTING
E PROPOSED
BOX
RANT
ILET EXISTING
LET PROPOSED
IT OBLITERATION
MONUMENT
WAY MONUMENT
UT EXISTING
UT PROPOSED
H
TELE OR TELEG POLE
ANCHOR



PROJECT SUMMARY F-099-3(6)

WIDTH of ROADBED	40'
WIDTH of PAVEMENT	24'
LENGTH of GRADING	3,054.99' = 0.579 MI.
LENGTH of PAVING	3,054.99' = 0.579 MI.
LENGTH of EXCEPTIONS	91.38' = 0.017 MI.
LENGTH of PROJECT	3,146.37' = 0.596 MI.

DESIGN DESIGNATION

ADT (1965)	=	265
ADT (1985)	=	1060
DHV 15%	=	159
D	=	40-60%
T	=	5%
V	=	45 M.P.H.

PROJECT SUMMARY F-099-3(3)

WIDTH of ROADWAY	
WIDTH of PAVEMENT	(SEE TYPICAL SECTIONS)
LENGTH of GRADING	4,555.69' = 0.863 MI.
LENGTH of PAVING	4,555.69' = 0.863 MI.
LENGTH of PROJECT	4,555.69' = 0.863 MI.

DESIGN DESIGNATION

ADT (1965)	=	3300
ADT (1985)	=	9900
DHV 11%	=	1089
D	=	45-55%
T	=	5%
V	=	25 M.P.H.

PROJECT SUMMARY S-0933(5)

WIDTH of ROADWAY	43'
WIDTH of PAVEMENT	40'
LENGTH of GRADING	2,206.27' = 0.418 MI.
LENGTH of PAVING	2,206.27' = 0.418 MI.
LENGTH of PROJECT	2,206.27' = 0.418 MI.

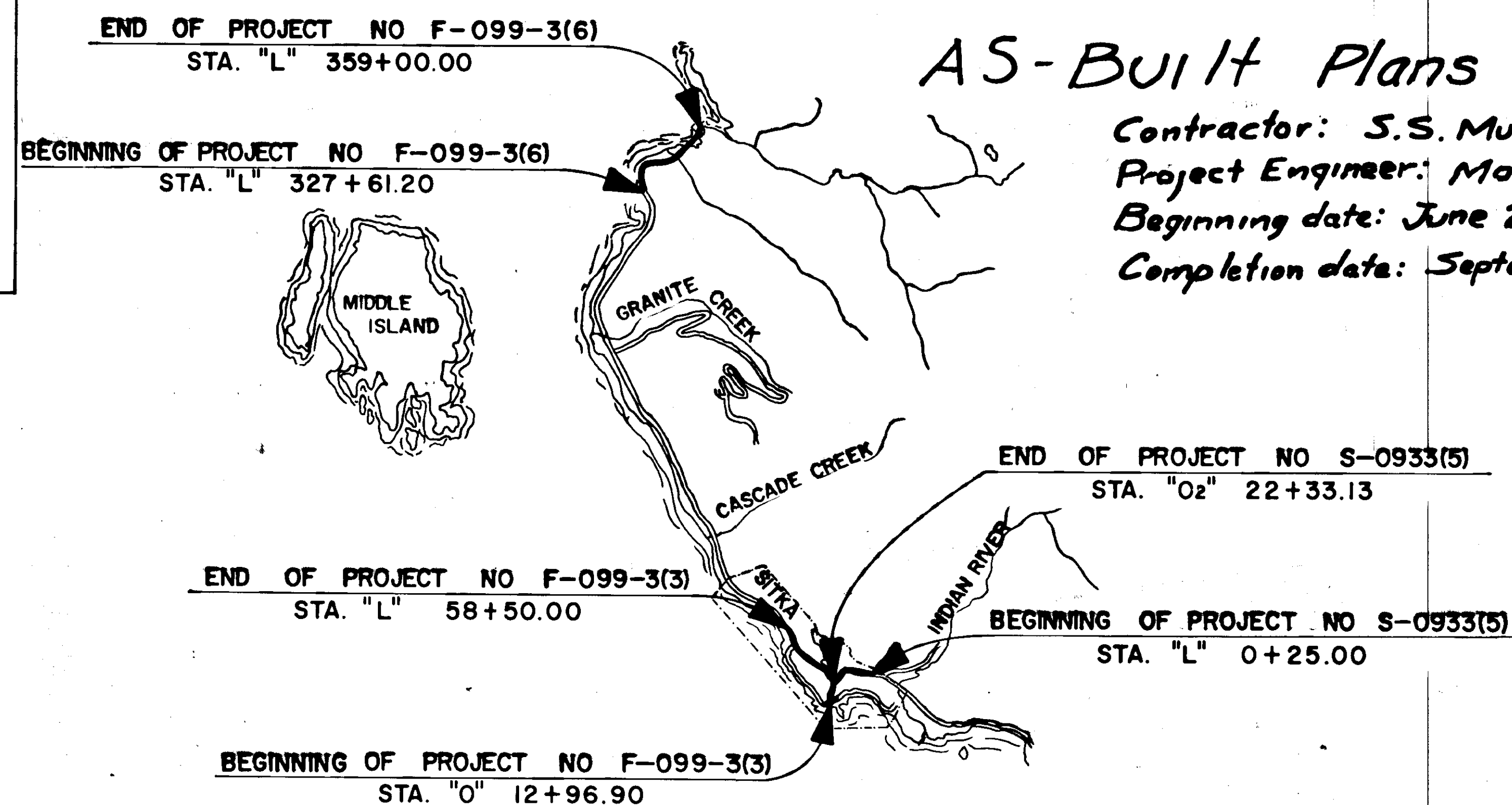
DESIGN DESIGNATION

ADT (1965)	=	2975
ADT (1985)	=	8925
DHV 11%	=	982
D	=	45-55%
T	=	5%
V	=	25 M.P.H.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

SITKA URBAN & SITKA EXTENSION
PROJECT NO'S F-099-3(3),
F-099-3(6) & S-0933(5)
GRADING, DRAINAGE & PAVING



AS-Built Plans

Contractor: S.S. Mullen, Inc.
Project Engineer: Morton J. Cook
Beginning date: June 29, 1966
Completion date: September 27, 1967

"AS BUILT"

STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-3(3), F-099-3(6) S-0933(5)	1966	1	40

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES
3	GENERAL NOTES & DETAILS, RETAINING WALL LOCATIONS
4	HOUSE CONN. DETAILS & TABLES
5-6	INLET & MANHOLE DETAILS
7	STEP DETAILS

URBAN RENEWAL SECTION PROJECT NO F-099-3(3)

8	TYPICAL SECTION & EST. OF QUANTITIES
9	MISC. WORK; PIPE & STRUCTURE SUMMARIES; STANDARD SIGNS; CURB CUTS
10	LINCOLN ST. INTERSECTION DETAIL
11	PLAN & PROFILE

HALIBUT POINT ROAD SECTION

12	TYPICAL SECTIONS & EST. OF QUANTITIES
13	MISC. WORK; PIPE & STRUCTURE SUMMARIES; STANDARD SIGNS; CURB CUTS
14	APPROACH ROAD DETAILS
15-18	PLAN & PROFILE

SITKA TO OLD SITKA EXT. PROJECT NO F-099-3(6)

19	TYPICAL SECTIONS & EST. OF QUANTITIES
20	PLAN & PROFILE

SAWMILL CREEK BLVD. PROJECT NO S-0933(5)

21	TYPICAL SECTIONS & EST. OF QUANTITIES
22	MISC. WORK; PIPE & STRUCTURE SUMMARIES; STANDARD SIGNS; CURB CUTS
23	APPROACH DETAILS
24-28	WATERLINE REPLACEMENT PLANS
29-30	PLAN & PROFILE SHEETS (EXISTING)
31-32	PLAN & PROFILE SHEETS (CONSTRUCTION)
33	SUMMARY OF BRASS CAP MONUMENTS
34	SUMMARY OF RIGHT OF WAY MONUMENTS
S-1	STANDARD CULVERTS
S-3	STANDARD APPROACHES
S-6	STANDARD PROJECT IDENTIFICATION SIGN
C-8	STANDARD BEAM TYPE GUARDRAIL
S-9	STANDARD TIMBER GUIDEPOST
S-19	STANDARD SUPERELEVATION (PROJECT F-099-3(6))

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED
Acting Commissioner of Highways
Date 1/26/66

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-3(3), F-099-3(6) S-0933(5)	1966	2	40

ITEM NO	ITEM	UNIT											ROADWAY	CONTRACT	TOTAL	"AS BUILT"
			11	15	16	17	18	20	24	31	32		TOTAL			
100(5)	Clearing and Grubbing	Lump Sum														
102(1)	Unclassified Excavation	Cu. Yd.	1754	3,120	1173	13,615	197	All Req'd					All Req'd		All Req'd	
102(7)	Selected material type I borrow, Case 2	Ton	3433	4,351	875	23,489	189	18,757		12,813	8,599		60,028		60,028	
102(7A)	Selected material type II borrow, Case 2, grading "B"	Ton	4118	877	1030	1,940	190	4,693		2,036	1,952		60,936		60,936	
103(1)	Excavation for structures	Cu. Yd.	116	68	249	341	385	54		278	1,834		16,836		16,836	
111(1)	Obliteration of old roadway	Unit	4	1									3,325		3,325	
													5		5	
200(4)	Crushed aggregate base, grading D-1	Ton	2660	792	1008	1,832	190	4,633		2,016	2,216		15,347		15,347	
310(3)	Asphalt, grade MC-30, prime coat	Gal.	1561	400	450	1,050	80	2,622		1,642	1,700		9,505		9,505	
322(1)	Hot bituminous concrete pavement	Ton	875	225	255	575	45	540		919	952		4,786		4,786	
322(2)	Asphalt cement 120-150 penetration	Gal.	13,297	3385	3835	8,725	655	14,297		13,978	14,480		72,652		72,652	
406(1)	Class "A" concrete	Cu. Yd.	0.70		32.19	94.43	15.16			9.52	13.71		165.71		165.71	* Includes only retaining wall and stairs
453(5C)	12" corrugated metal pipe	Lin. Ft.	179	40		130	176			300	186		1,011		1,011	
453(5E)	18" corrugated metal pipe	Lin. Ft.		92	138	88		52		409	873		1,652		1,652	
453(5G)	24" corrugated metal pipe	Lin. Ft.		52	158	144		316		46			716		716	
454(1A)	18 x 11" corrugated metal pipe arch	Lin. Ft.								22			22		22	
457(1)	Removal of culverts	Lin. Ft.		179	113	108		225		84	90		799		799	
521(1)	Standard manholes	Each			1	2				4	5		12		12	
521(1A)	Special manholes	Each		2						2			4		4	
521(1B)	Utility manholes	Each							3				3		3	
521(2A)	Inlets, type "A"	Each	6	3		3	1			5	4		22		22	
521(2B)	Inlets, type "B"	Each			1						3		4		4	
521(6)	Manhole frames and covers	Pair	2								2		2		2	
521(7)	Adjusting manholes	Each	7			2				1	4		14		14	
521(10)	Adjusting cleanouts	Each	2										2		2	
524(3)	Concrete curb and gutter, 6" depth	Lin. Ft.	2336	423	1220	1528	250			1886	2,272		9,915		9,915	
530(1)	Concrete sidewalk, 4" depth	Sq. Yd.	1487	248	786	843	136				930		5,214		5,214	
530(2)	Concrete sidewalk and driveway, 6" depth	Sq. Yd.	50	40	11	157	31			147	141		577		577	
560(1)	Right of way monuments	Each						11					11		11	
560(4)	Guide posts	Each				1							1		1	
560(5)	Brass cap monuments	Each	6	2	4	3	1			4	3		23		23	
561(1)	Monument cases	Each	6	2	4	3	1			4	3		23		23	
583(2)	Beam type guardrail, type I posts	Lin. Ft.		550	500			1125					2,175		2,175	
584(1)	Standard signs	Each	4	1	3	3		5		4	7		27		27	
588(1)	6" cast iron water main, class 150	Lin. Ft.							150				150		150	
588(2)	8" cast iron water main, class 150	Lin. Ft.				587			220				807		807	
588(3)	12" cast iron water main, class 150	Lin. Ft.							36				36		36	
588(4)	16" cast iron water main, class 150	Lin. Ft.							2410				2,410		2,410	
588(5)	18" cast iron water main, class 150	Lin. Ft.							410				410		410	
588(6)	Adjusting and/or relocating fire hydrants	Each	2			1							3		3	
588(7)	Fire hydrants, 5" "I" base	Each							5				5		5	
588(8)	Water service lines	Each				5				26	23		54		54	
588(9)	Thaw wire and connections	Each				5				26	23		54		54	
588(10)	Adjusting valve boxes	Each	13	1		1							15		15	
588(11)	Valve box and cover	Each	1										1		1	
589(1)	6" cast iron sewer laterals, Class 50	Lin. Ft.		34		432				838	409		1,713		1,713	
589(2)	8" cast iron sewer pipe, class 50	Lin. Ft.		304						1138	584		2,026		2,026	
589(3)	10" cast iron sewer pipe, class 50	Lin. Ft.				675							675		675	
589(4)	12" cast iron sewer pipe, class 50	Lin. Ft.		44									44		44	
590(1)	6" asbestos cement pipe	Lin. Ft.				36							36		36	

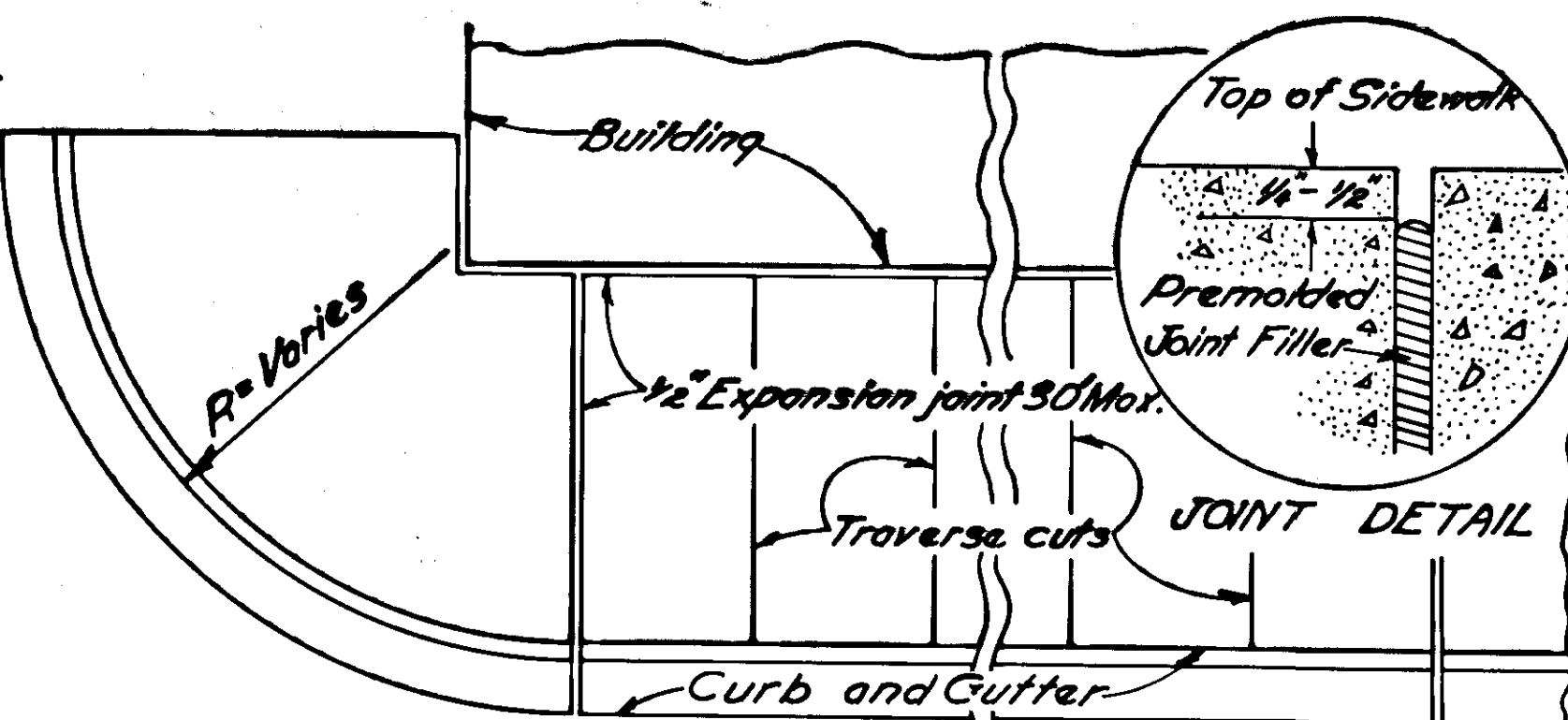
"AS BUILT"

RETAINING WALL TABLE

Station	Height of Wall	Station	Height of Wall
Lt.	Rt.	Lt.	Rt.
SAWMILL CREEK BLVD.		E 38+80	
L 5+45	2.5'	41+55+13	3'
L 5+90.55		41+94+85	3'
L 6+03.45		43+75	3'
SR 60+38	2.5'	44+75	2.5'
L 11+91		45+40	2.5'
L 12+38	3'	46+75	2'
L 12+52		47+75	3.5'
L 12+96	3'	51+45	3.5'
		52+20	3.5'
HALIBUT PT. BLVD.		53+20	3'
L 35+65	2.5'	54+10	3'
L 37+65	3.5'	65+75	3'
L 37+80	2.5'	56+00	3'
L 38+20		57+20	3'
		58+25	3'
		L 58+50	3'

Quantities for Sawmill Creek Blvd. Retaining Walls
Structural Excavation 114 Cu. Yd.
Class "A" Concrete 140.18 Cu. Yd.
Quantities for Halibut Pt. Blvd. Retaining Walls
Structural Excavation 33 Cu. Yd.
Class "A" Concrete 16.83 Cu. Yd.

56+19 to 56+44 Lt.
26+39 to 26+70 Lt.
27+34 to 27+50 Lt.
26+87 to 27+17 Lt.



TYPICAL EXPANSION & CONTRACTION JOINT DETAILS

Expansion Joint: Premolded expansion joint filler 1/2" thick complying with AASHTO designation M 153, type I shall be used at all expansion joints. Joints shall be located as follows:

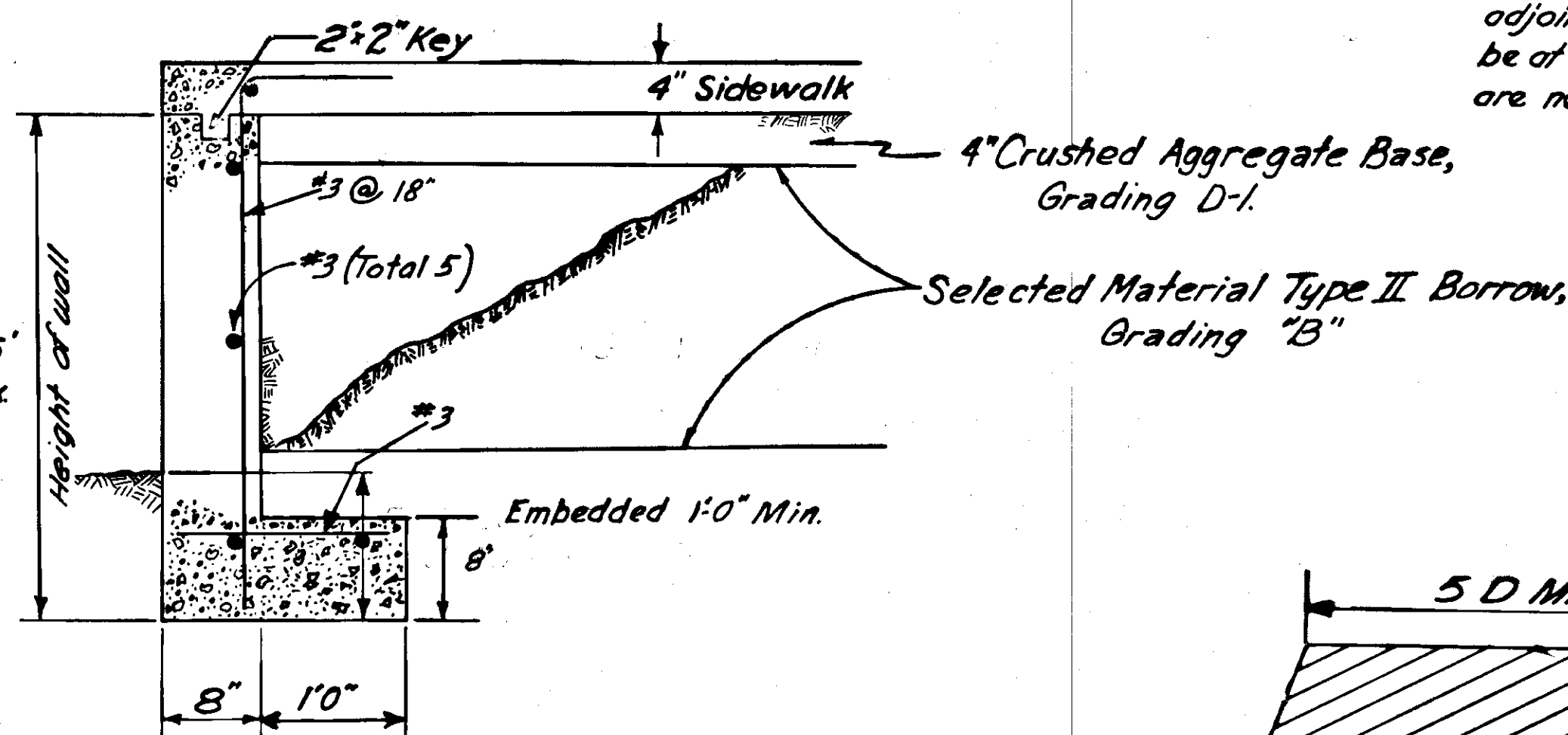
Curb and Gutter: Expansion joints shall be at the end of the curb return and immediately following and preceding curb cuts. Thereafter expansion joints shall be spaced at intervals of 30' except where shorter sections are needed for closure.

Sidewalks: Expansion joints shall be opposite expansion joints in adjoining curb and gutter. Traverse plane weakness joints shall be at uniform intervals of 6' except where shorter sections are necessary for closures.

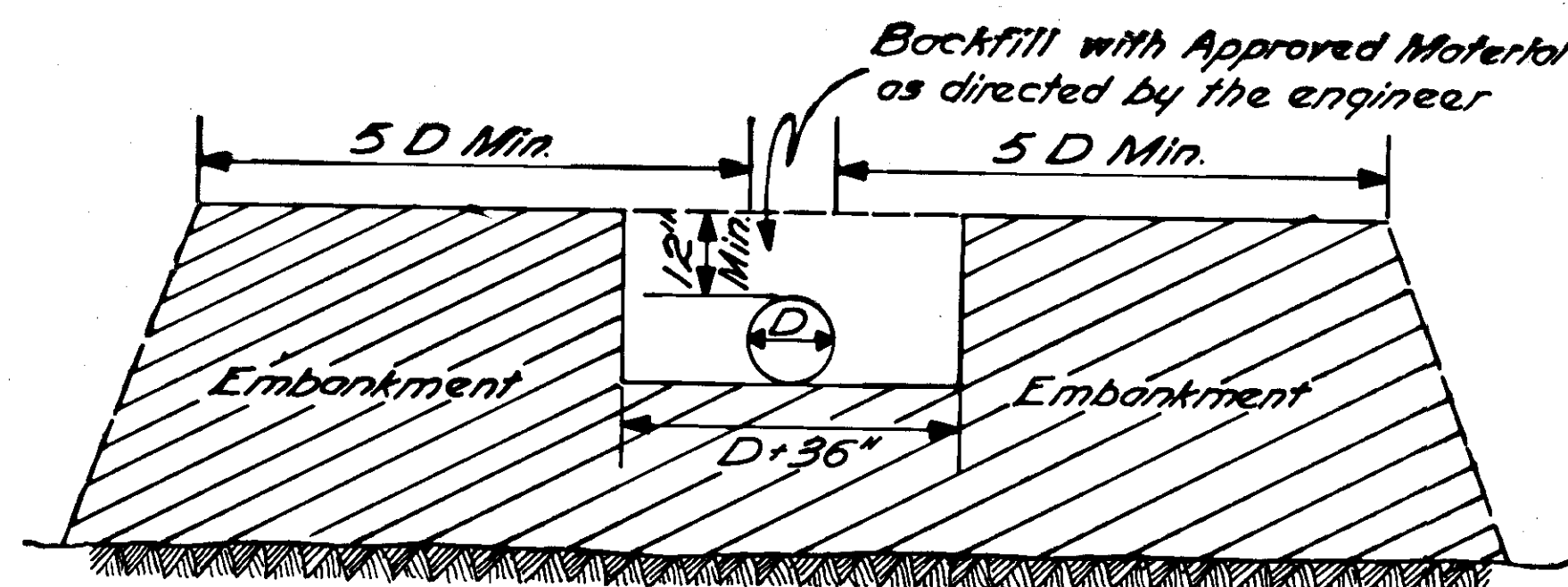
Premolded expansion joint filler placed between curb & gutter & sidewalk sections.

GENERAL NOTES

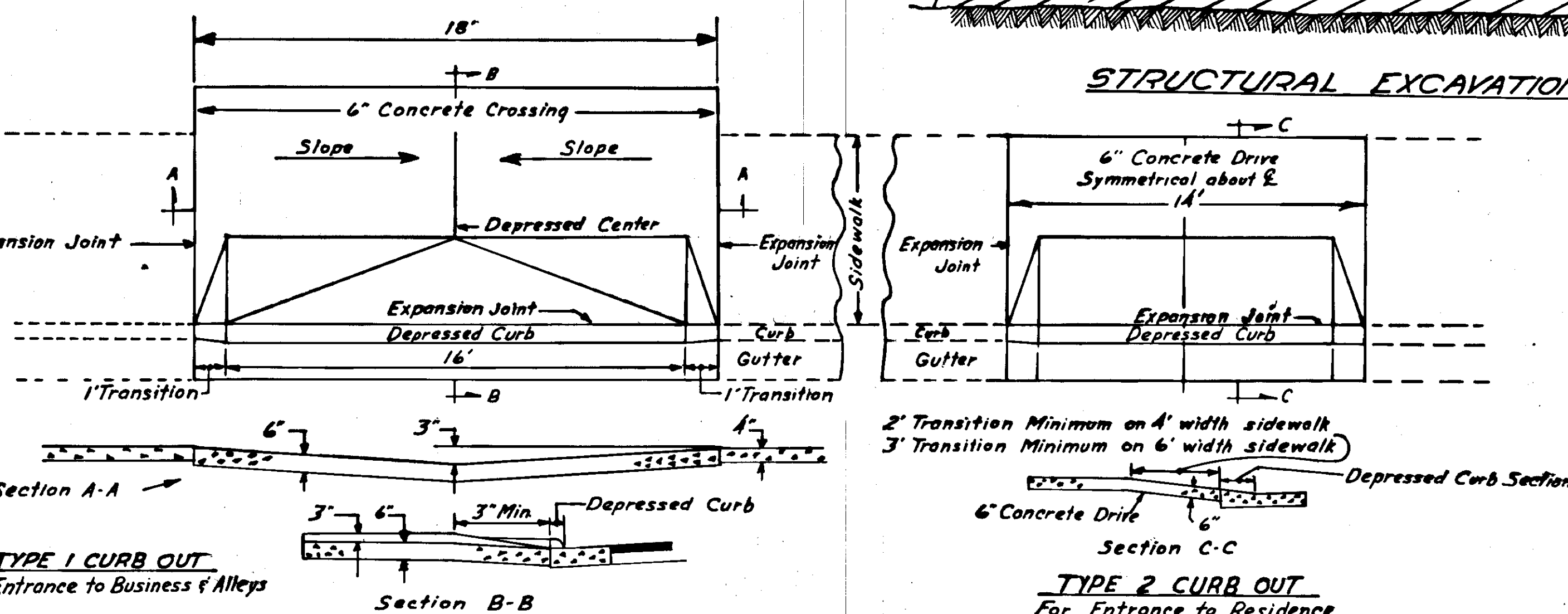
1. Culvert lengths and locations are approximate only and are subject to minor revisions.
2. Grades and alignment shown on these plans are subject to minor revisions.
3. All waste and/or surplus material encountered on this project will be disposed of by the contractor at locations of his own choice and as approved by the engineer. There is no payment for overhaul of unclassified excavation designated as waste and/or surplus material by the engineer.
4. The removal of existing sewer, water, and storm lines, manholes, cleanouts, catch basins, inlets, and fire hydrants will be considered incidental to other items of work covered under Section 102.
5. Location of underground utilities is approximate only.
6. Where pipes are to be placed in new embankments, the excavation shall be performed after the embankment has been constructed to a height of twelve (12) inches above the top of the pipe and a distance of five (5) diameters on each side of the pipe.
7. Sanitary sewer pipes shall be encased in concrete for ten (10) feet on either side of a water line crossing if said pipes are less than three (3) feet below the water line.
8. All concrete encasements, wyes, tees, elbows, saddles & other appurtenances relative to sewer pipe installation will be considered incidental to other items of work covered under section 588.
9. All concrete shall be class A concrete.



RETAINING WALL DETAIL



STRUCTURAL EXCAVATION DETAIL

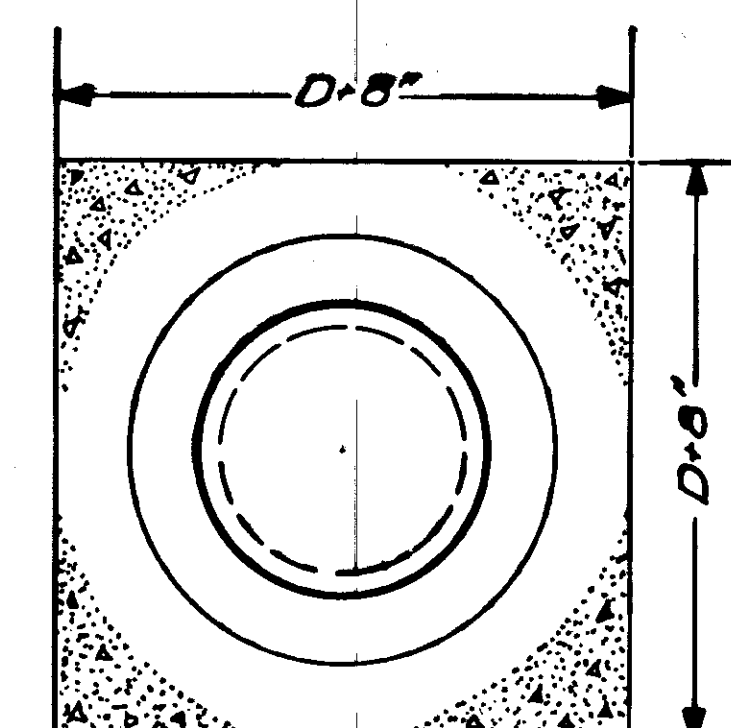


TYPE 1 CURB OUT

Entrance to Business & Alleys

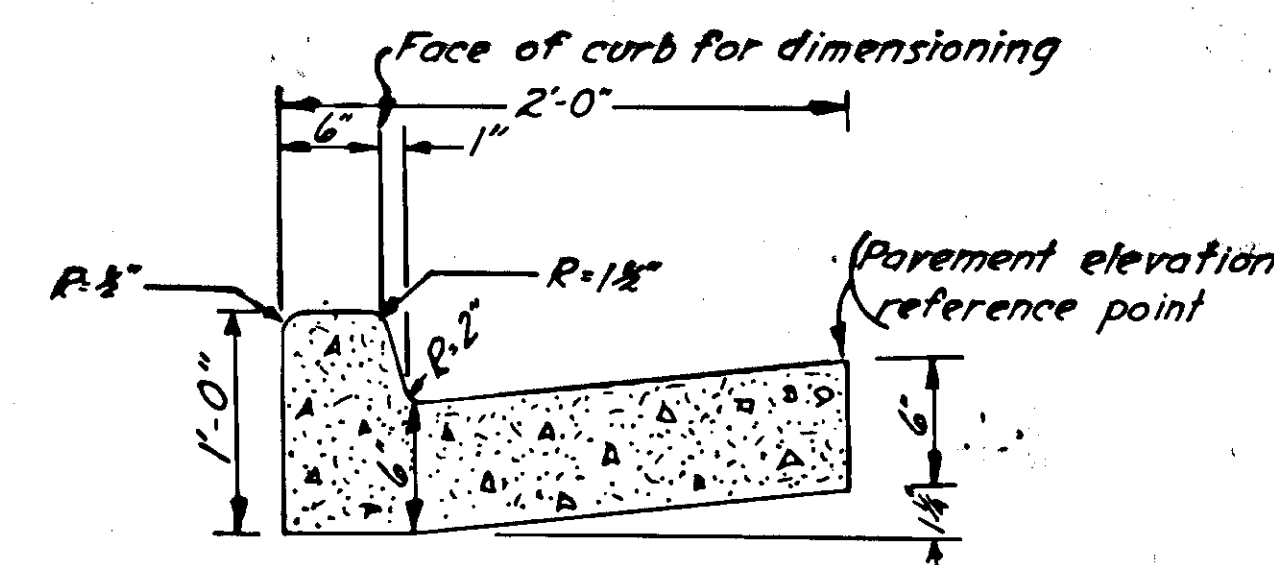
TYPE 2 CURB OUT

For Entrance to Residence



CONCRETE ENCASEMENT DETAIL

All manhole, Valve box, and cleanout covers falling within the Pavement limits shall be encased in class A concrete as detailed above.



TYPICAL CURB AND GUTTER SECTION

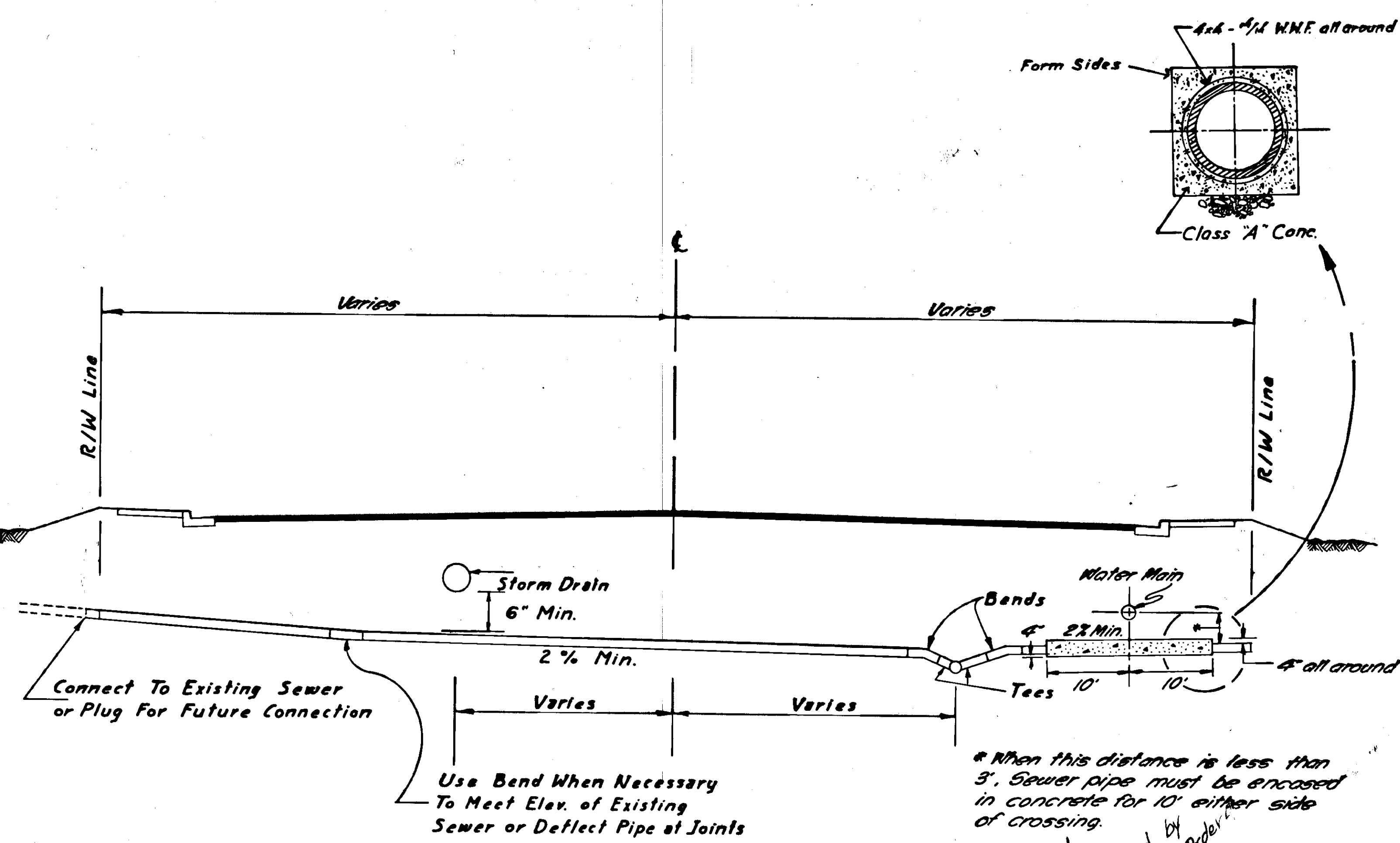
"AS BUILT"

SUMMARY OF HOUSE WATER CONNECTIONS

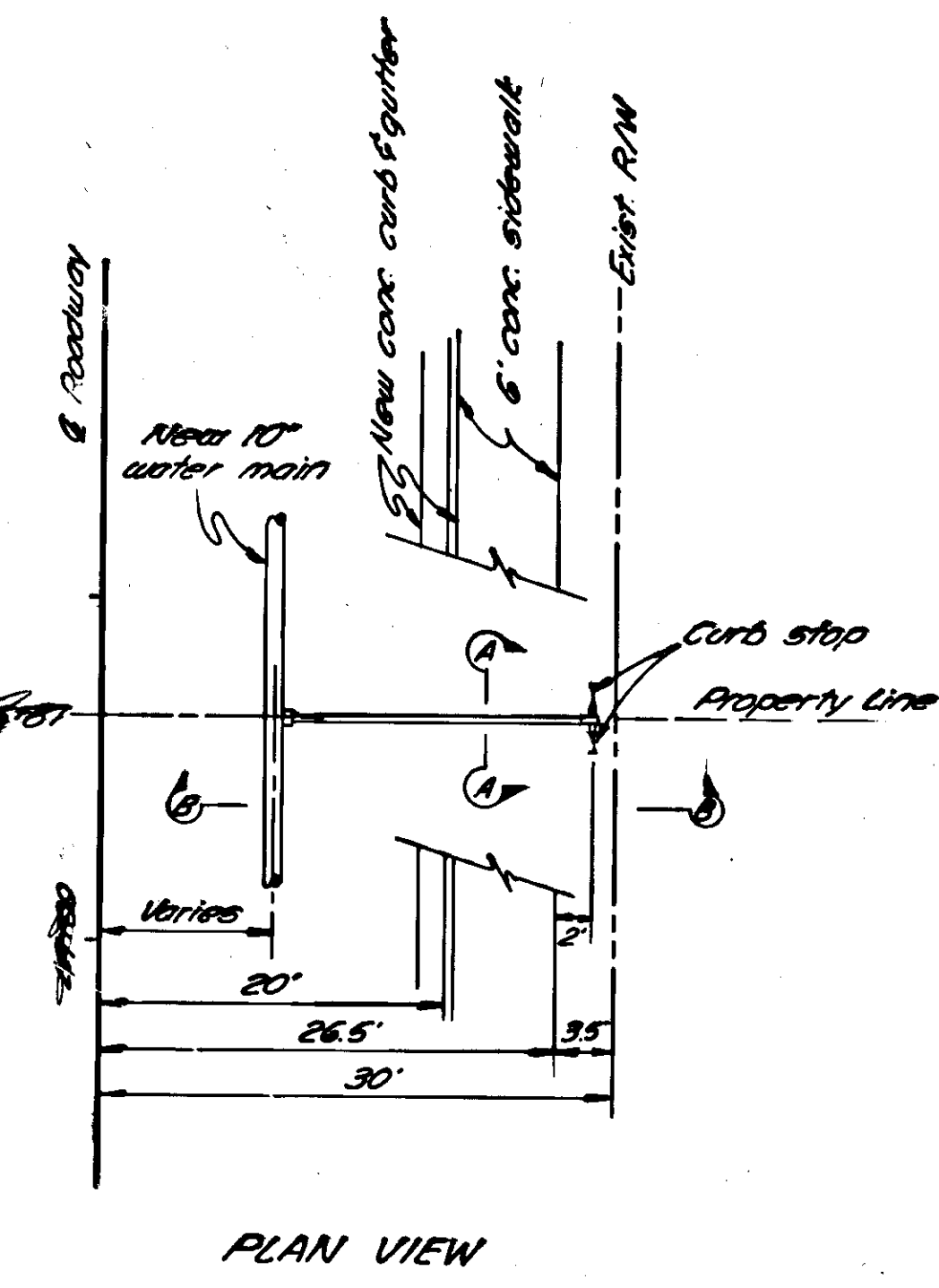
HALIBUT PT. BLVD.	Rt.	Lt.	Rt.	Lt.
"L" 47+05	Rt.	"L" 10+10	Lt.	
"L" 47+12.75	Lt.	"L" 10+20	Rt.	
"L" 48+25.75	Lt.	"L" 10+60	Lt.	
"L" 49+38.75	Lt.	"L" 10+70	Rt.	
"L" 50+51.75	Lt.	"L" 11+15	Rt.	
SAWMILL CR. BLVD.		"L" 11+20	Lt.	
"L" 2+20	Rt.	"L" 11+70	Rt.	
"L" 2+70	Rt.	"L" 11+75	Lt.	
"L" 3+05	Rt.	"L" 12+10	Rt.	
"L" 3+65	Lt.	"L" 12+30	Rt.	
"L" 3+80	Rt.	"L" 12+65	Lt.	
"L" 4+30	Rt.	"L" 12+75	Rt.	
"L" 4+35	Lt.	"L" 13+20	Rt.	
"L" 4+70	Lt.	"L" 13+45	Lt.	
"L" 4+80	Rt.	"L" 17+20	Rt.	
"L" 5+25	Lt.	"L" 18+05	Rt.	
"L" 5+35	Rt.	"L" 18+30	Lt.	
"L" 5+80	Rt.	"L" 18+45	Rt.	
"L" 5+90	Lt.	"L" 19+05	Rt.	
"L" 6+10	Rt.	"L" 19+30	Lt.	
"L" 6+75	Rt.	"L" 19+55	Rt.	
"L" 7+70	Lt.	"L" 19+90	Rt.	
"L" 8+25	Lt.	"L" 20+25	Lt.	
"L" 8+60	Rt.	"L" 20+75	Lt.	
"L" 8+85	Lt.	"L" 20+80	Rt.	
"L" 9+10	Rt.	"L" 21+40	Lt.	
"L" 9+55	Lt.	"L" 21+60	Rt.	

SUMMARY OF HOUSE SEWER CONNECTIONS

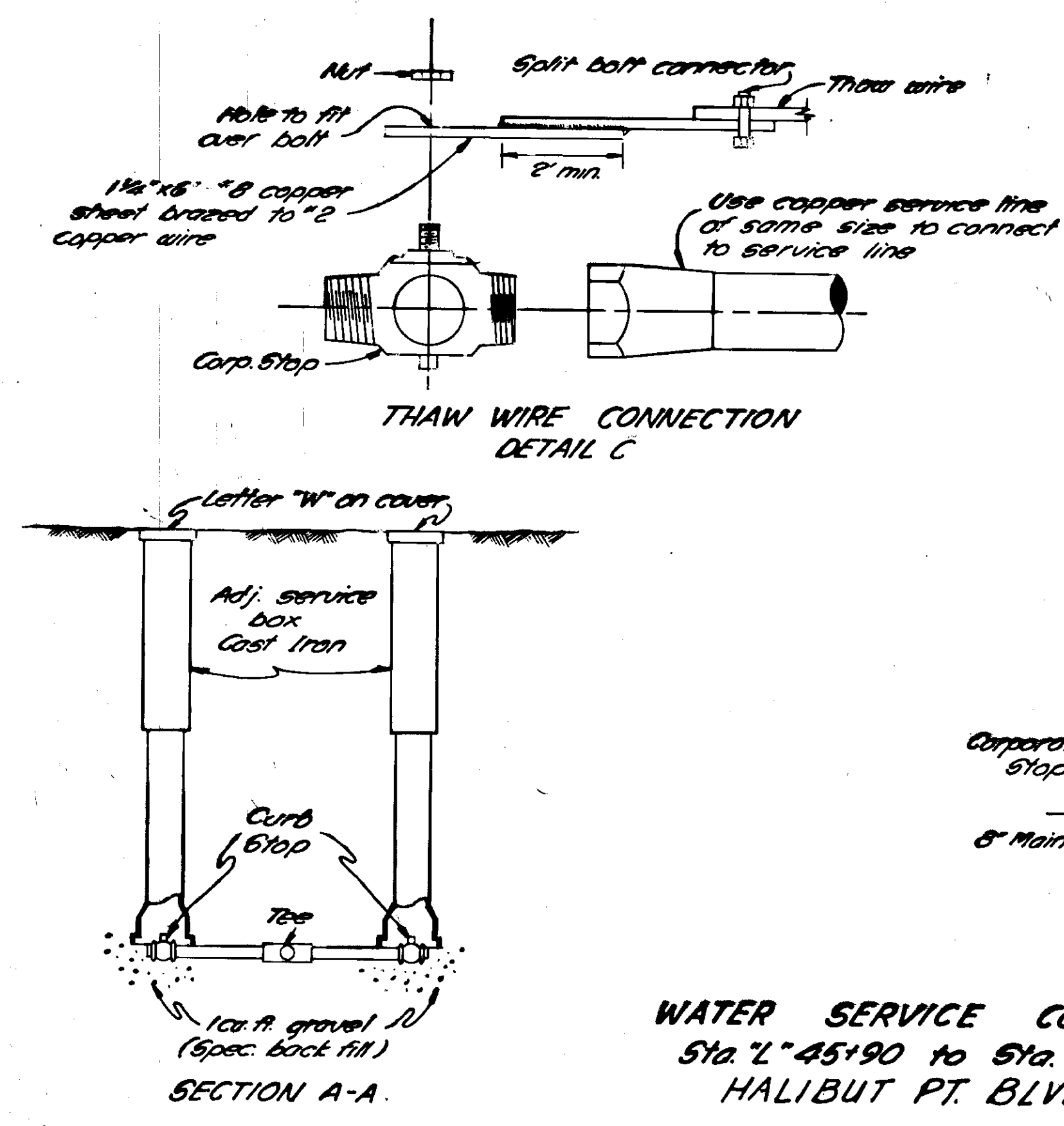
LOCATION	6" C.I.P.	LOCATION	6" C.I.P.	LOCATION	6" C.I.P.
	Lin. Ft.		Lin. Ft.		Lin. Ft.
SAWMILL CREEK BLVD.				"L" 20+90 Lt.	28'
"L" 2+14 Rt.	18'	"L" 8+87 Lt.	42'	"L" 21+50 Lt.	27'
"L" 2+54 Rt.	18'	"L" 9+15 Rt.	16'	HALIBUT PT. BLVD.	
"L" 3+08 Rt.	18'	"L" 9+60 Lt.	40'	"L" 46+45 Rt.	18'
"L" 3+20 Lt.	40'	"L" 9+94 Rt.	18'	"L" 46+50 Lt.	42'
"L" 3+78 Rt.	18'	"L" 10+22 Lt.	40'	"L" 47+25 Rt.	18'
"L" 4+00 Lt.	40'	"L" 10+46 Rt.	18'	"L" 47+40 Lt.	42'
"L" 4+27 Rt.	18'	"L" 10+48 Lt.	40'	"L" 47+90 Lt.	42'
"L" 4+60 Lt.	40'	"L" 11+00 Rt.	18'	"L" 48+20 Lt.	42'
"L" 4+75 Rt.	23'	"L" 11+18 Lt.	40'	"L" 48+53 Lt.	42'
"L" 4+85 Lt.	34'	"L" 11+50 Lt.	40'	"L" 49+00 Lt.	42'
"L" 5+25 Rt.	26'	"L" 11+65 Rt.	17'	"L" 49+67 Lt.	42'
"L" 5+27 Lt.	30'	"L" 11+95 Rt.	17'	"L" 50+15 Rt.	18'
"L" 5+79 Rt.	28'	"L" 12+57 Lt.	40'	"L" 50+24 Lt.	42'
"L" 6+06 Lt.	28'	"L" 12+54 Rt.	17'	"L" 51+02 Lt.	42'
"L" 6+20 Rt.	35'	"L" 12+54 Rt.	20'	"L" 51+05 Lt.	34'
"L" 6+83 Lt.	42'	"L" 19+00 Rt.	24'		
"SR" 0+88 Rt.	10'	"L" 19+30 Lt.	29'		
"SR" 0+88 Rt.	12'	"L" 19+57 Rt.	26'		
"L" 7+75 Lt.	48'	"L" 19+82 Rt.	28'		
"L" 8+25 Lt.	46'	"L" 20+25 Lt.	28'		
"L" 8+67 Rt.	12'	"L" 20+60 Rt.	28'		



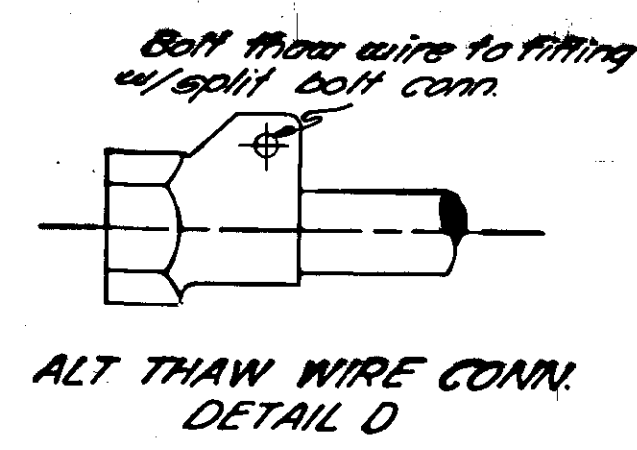
TYPICAL SECTION HOUSE SEWER CONNECTION



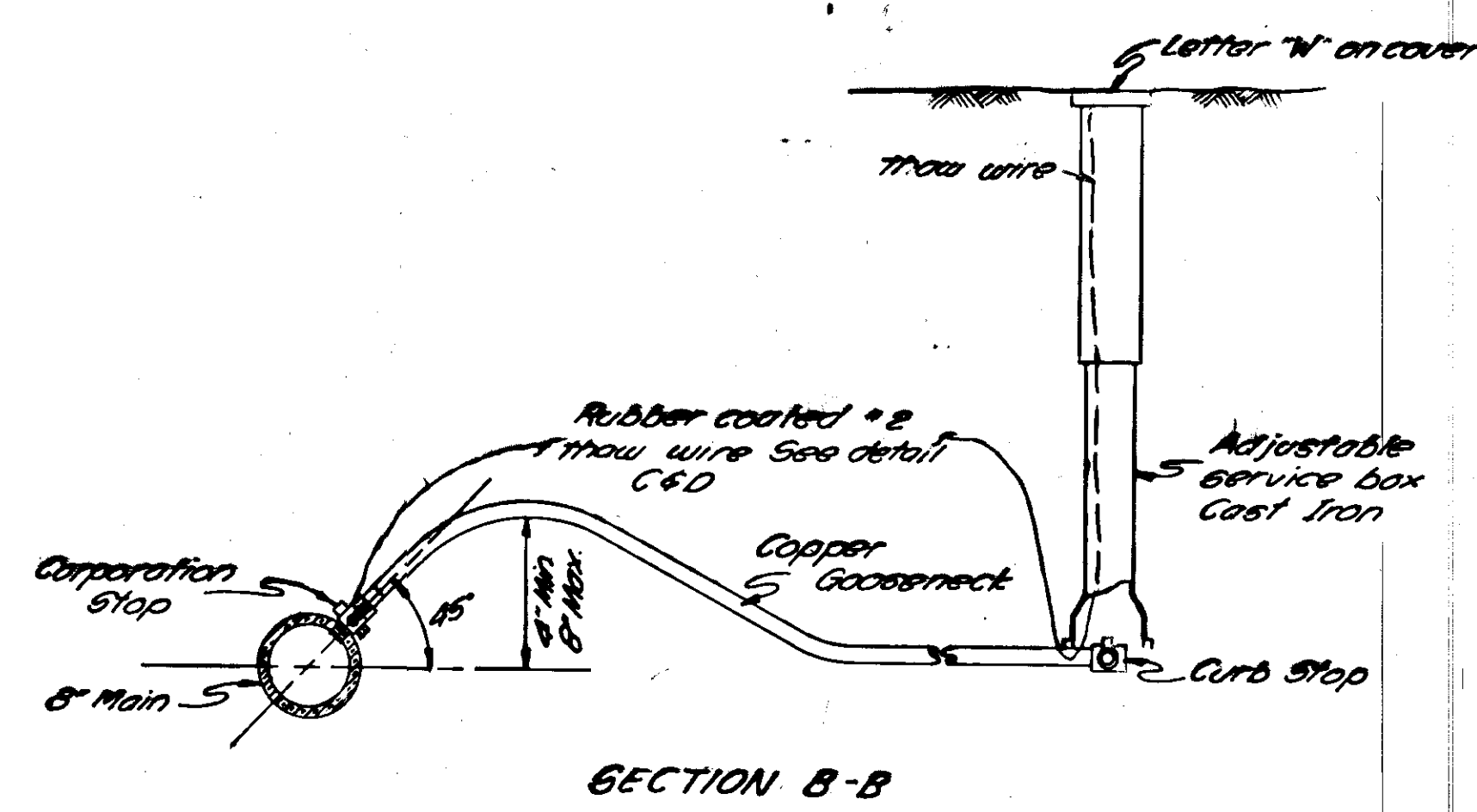
PLAN VIEW



SECTION A-A



ALT THAW WIRE CONN. DETAIL D

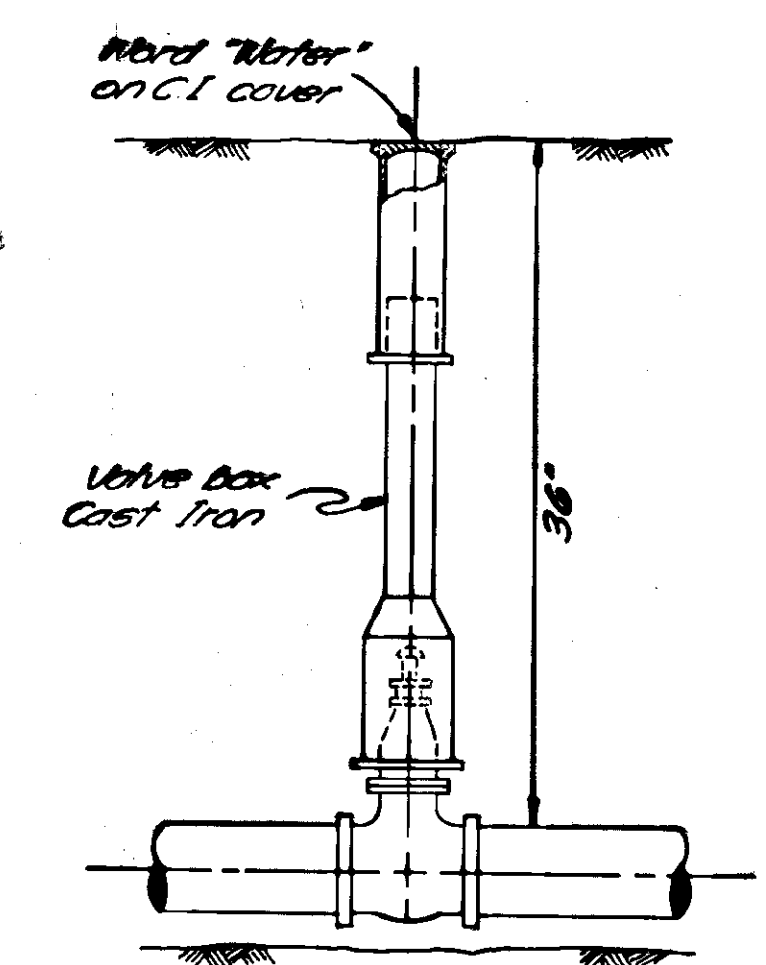


SECTION B-B

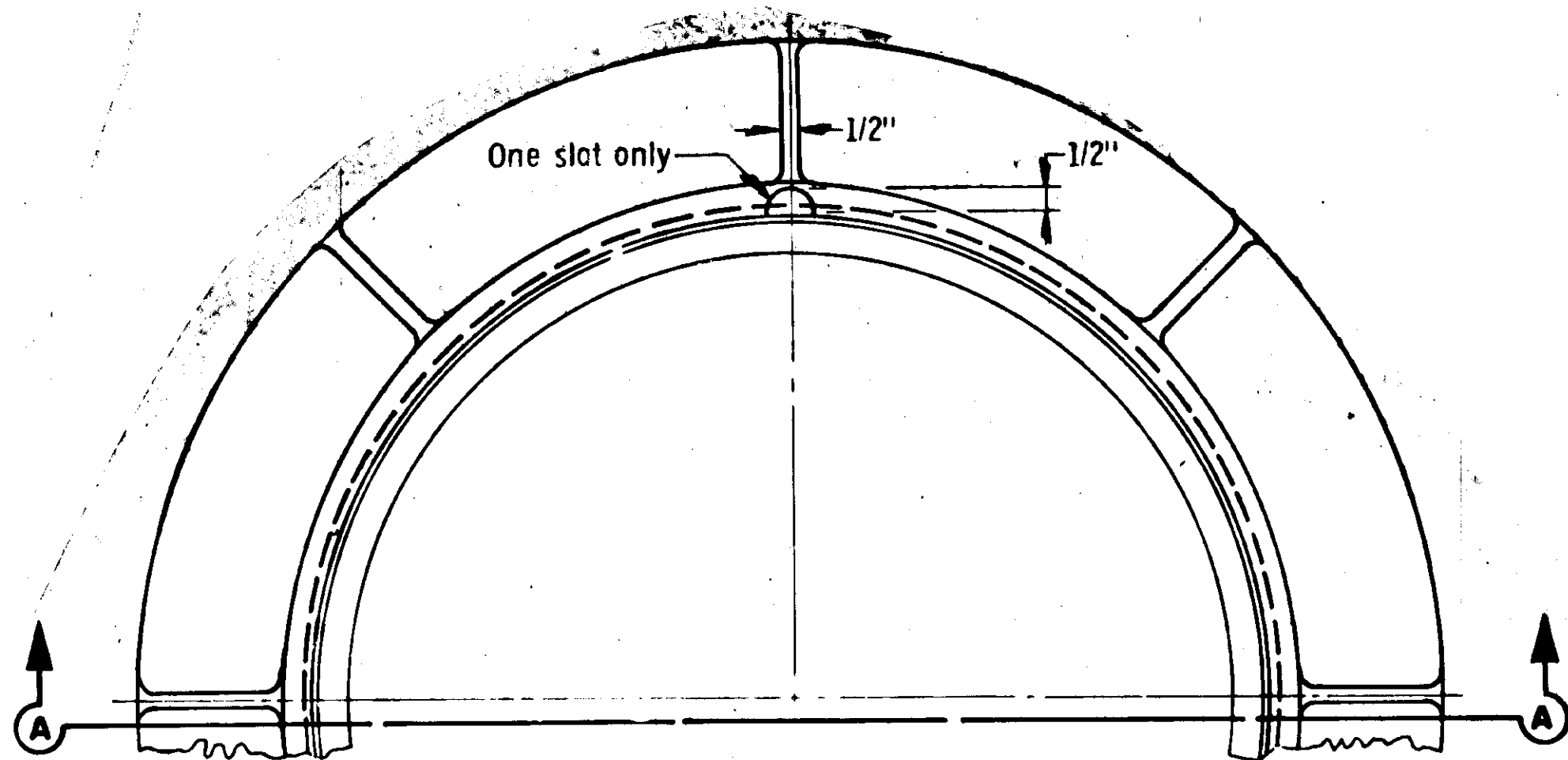
WATER SERVICE CONNECTIONS
Sta. "L" 45+90 to Sta. "L" 52+50
HALIBUT PT. BLVD.

Note: Water service connections, Sta. "L" 45+90 to Sta. "L" 52+50, shall be paid for on an unit basis. All fittings, service boxes and other appurtenances except thaw wires and thaw wire connections will be included in this payment.

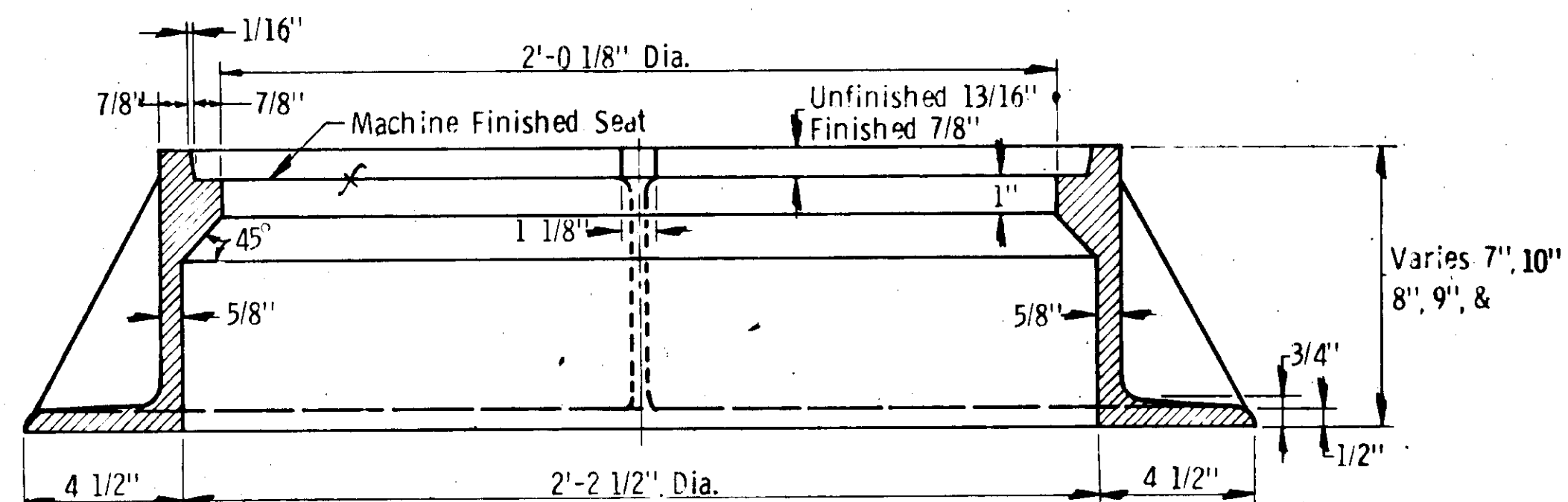
THRUST BLOCK LOCATIONS
See Sheet No. 28



"As Built"

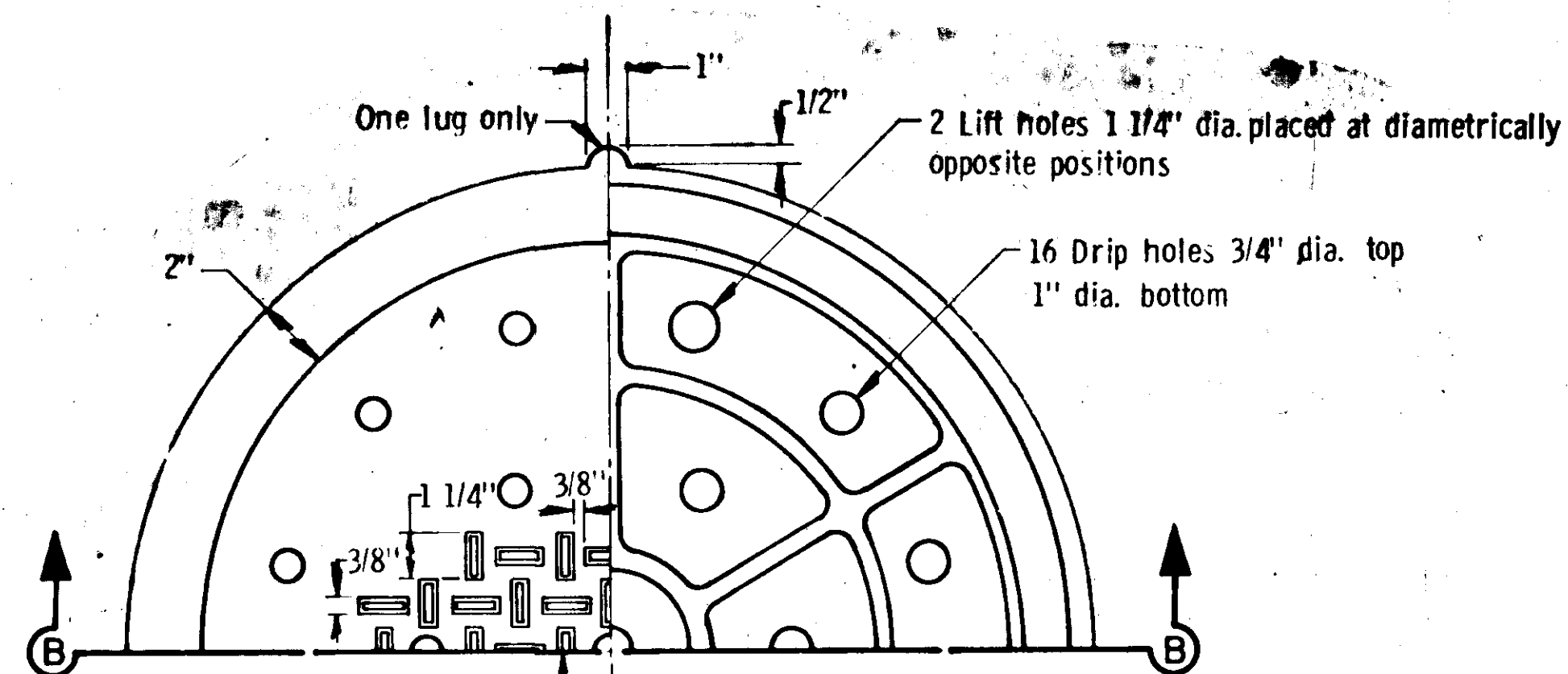


HALF PLAN

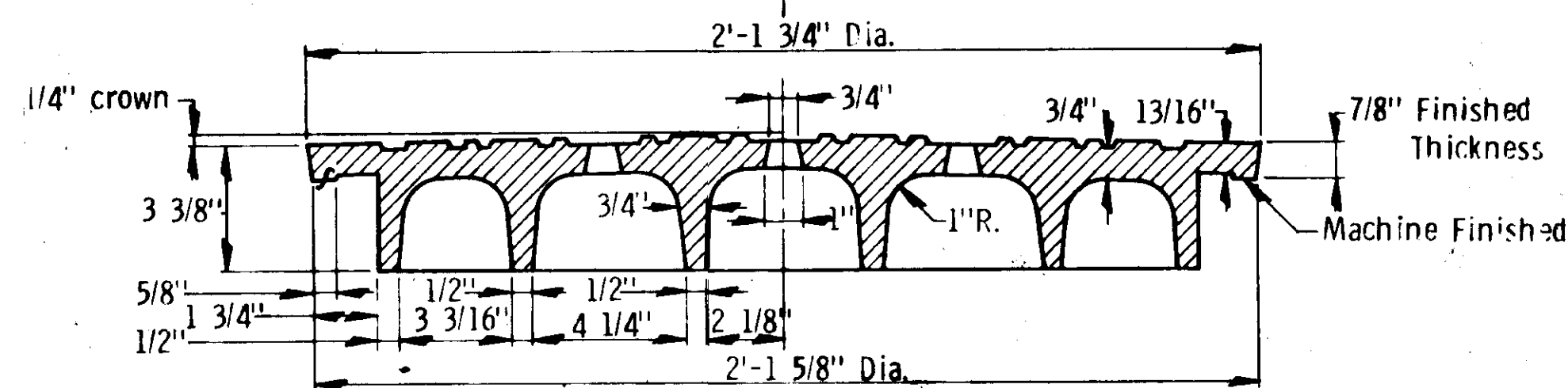


SECTION A-A

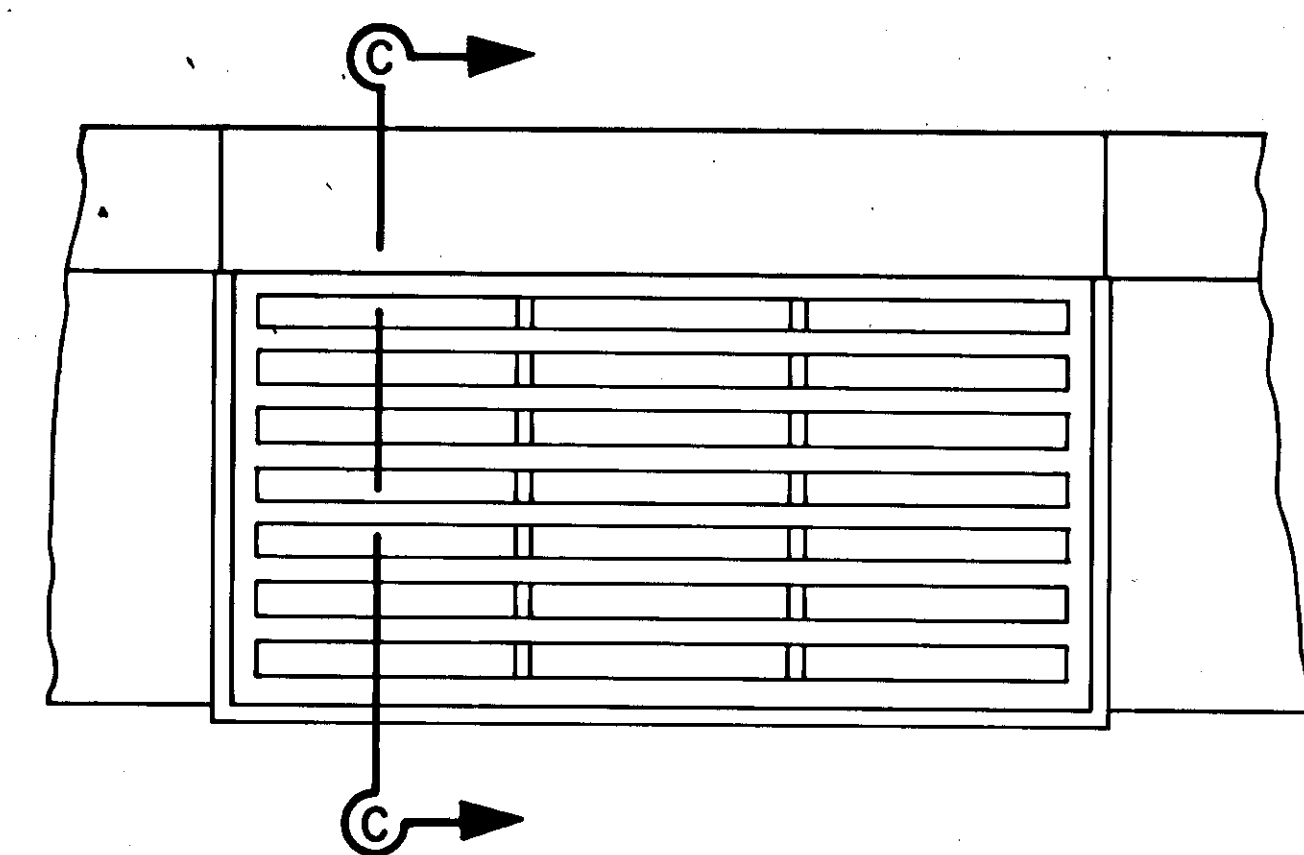
MANHOLE FRAME & COVER



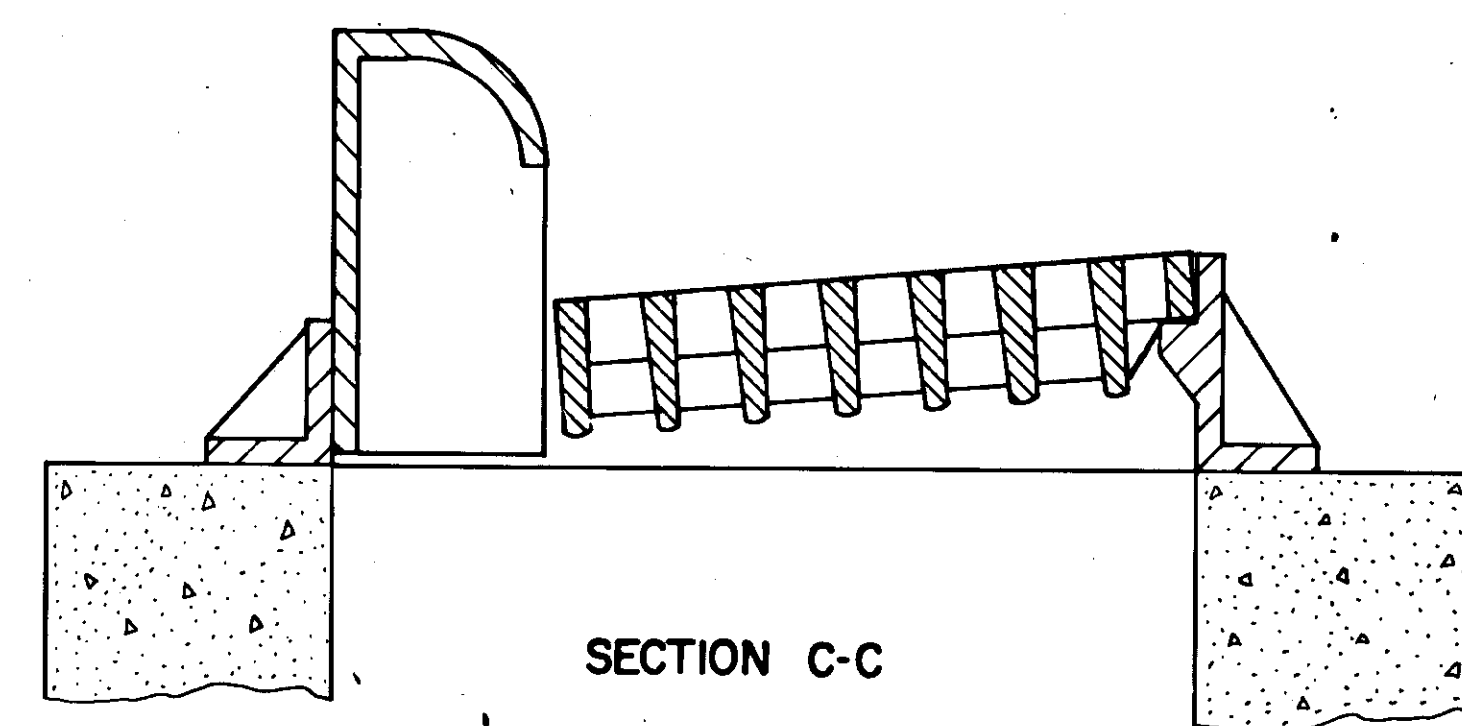
QUARTER TOP VIEW QUARTER BOTTOM VIEW



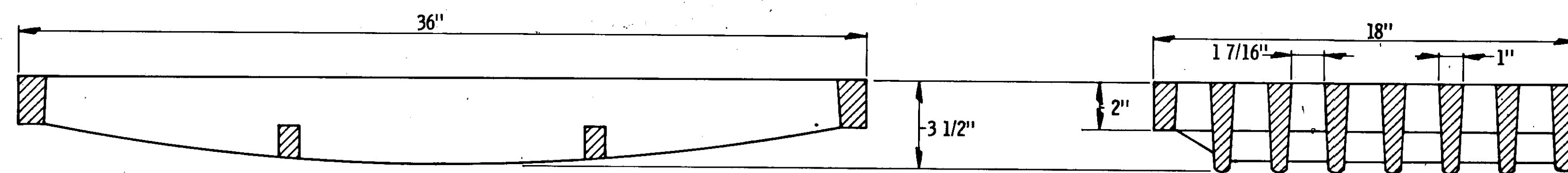
SECTION B-B



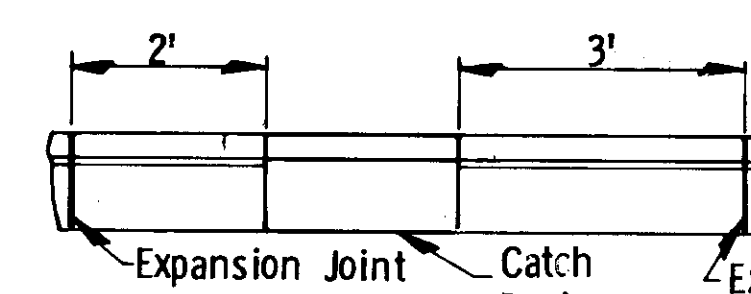
PLAN VIEW



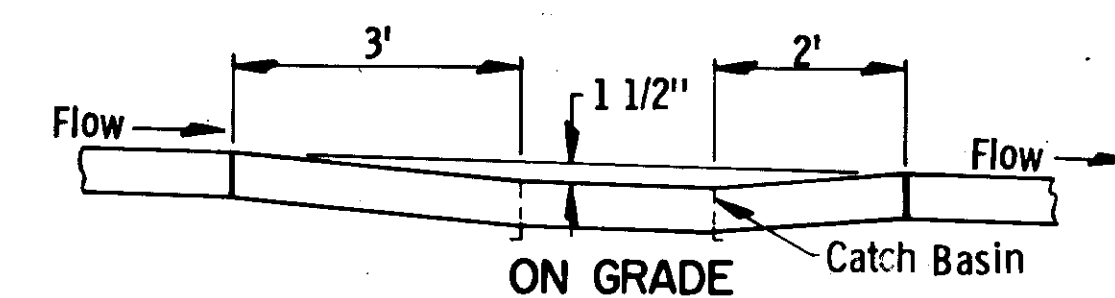
SECTION C-C



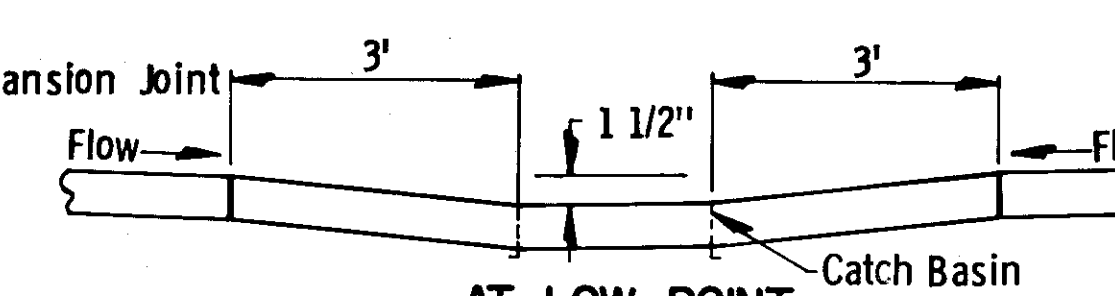
CURB INLET GRATE



PLAN VIEW



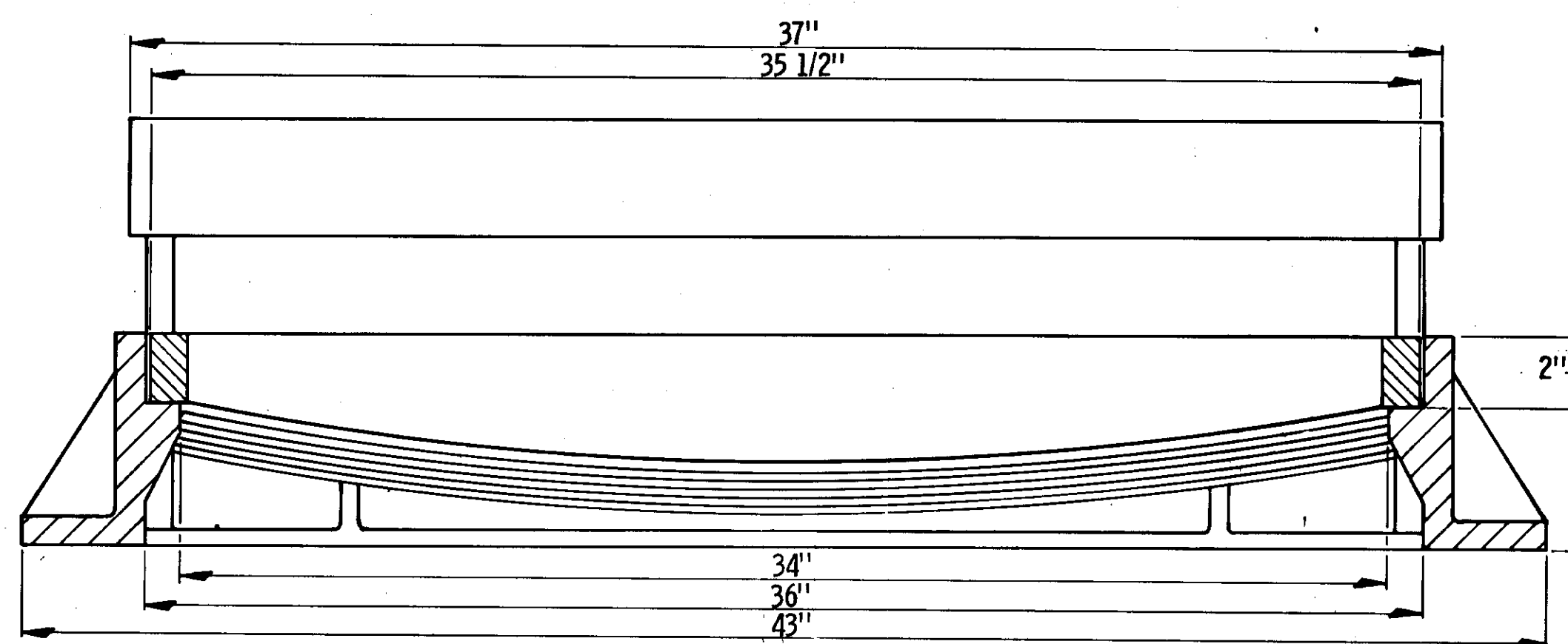
ON GRADE



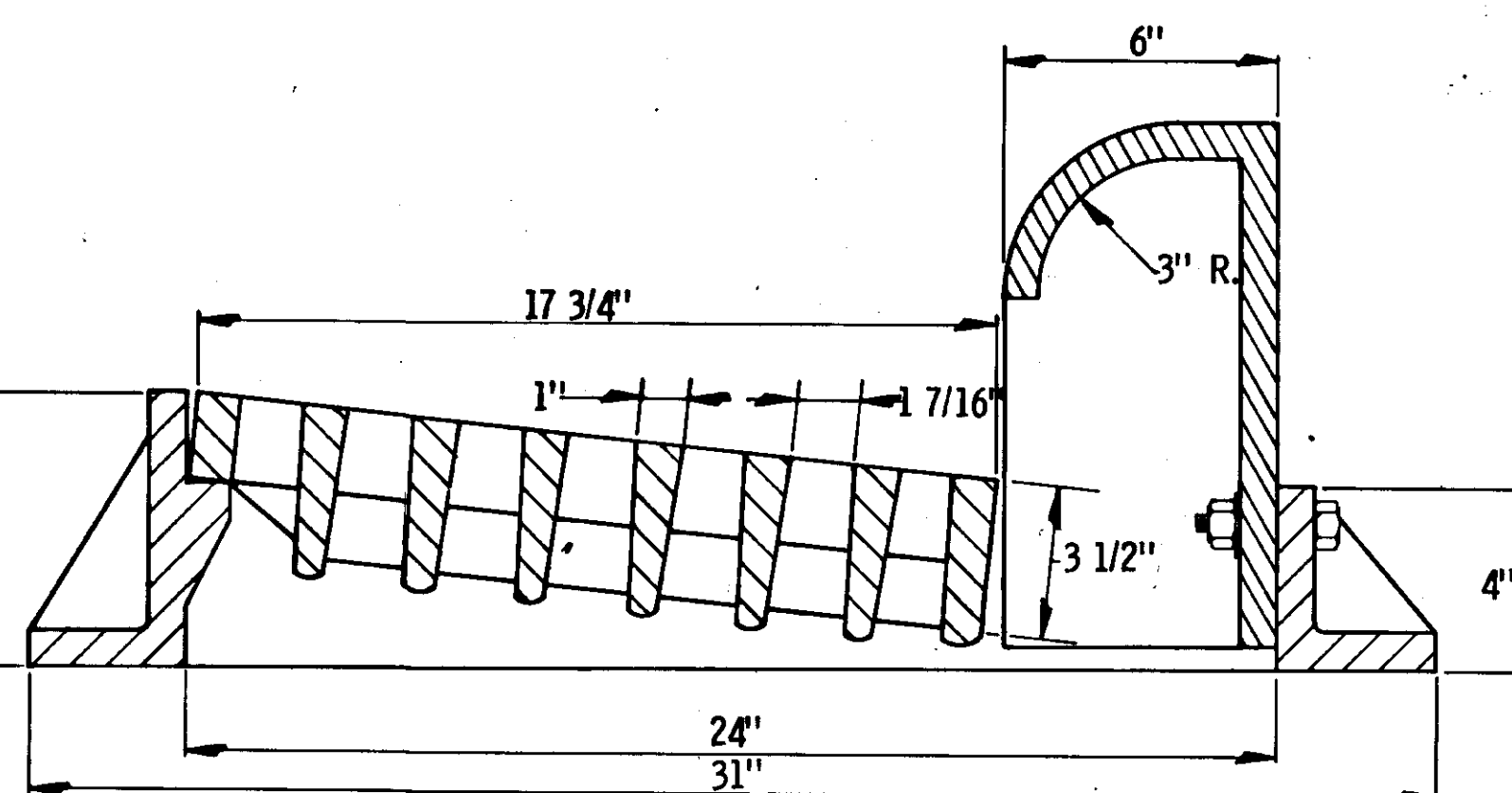
AT LOW POINT

DEPRESSION IN FLOW LINE AT CURB INLET

CONSTRUCTION DETAILS



CURB INLET FRAME & CURB BOX



GENERAL NOTES

Manhole frame & cover shall weigh a minimum of 395 to 495 lbs.

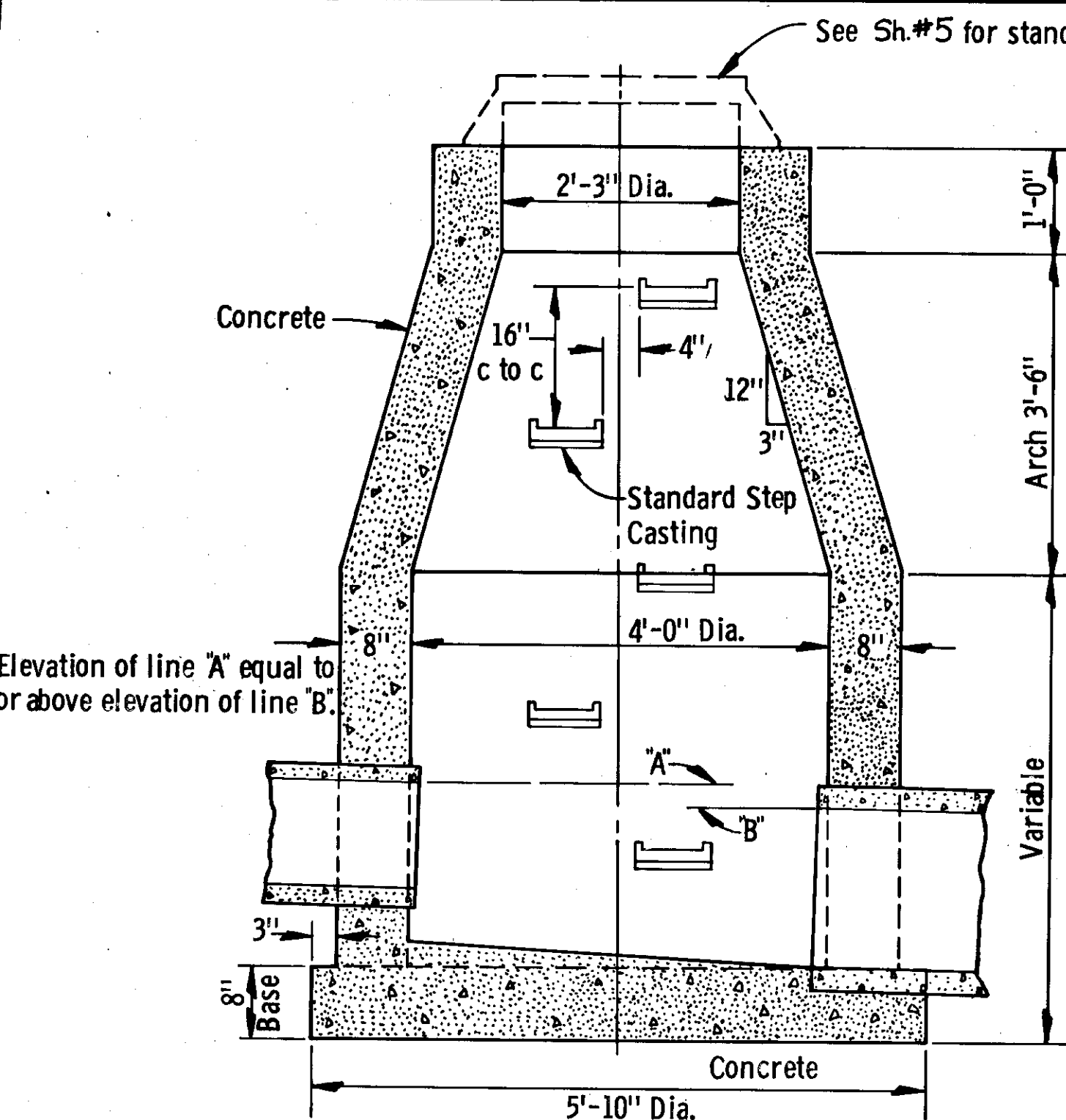
Curb inlet frame, box & grate shall weigh a minimum of 545 lbs.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS
CAST IRON FRAMES, COVERS
AND GRATINGS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933(S) F-099-3(3)	1966	6	40

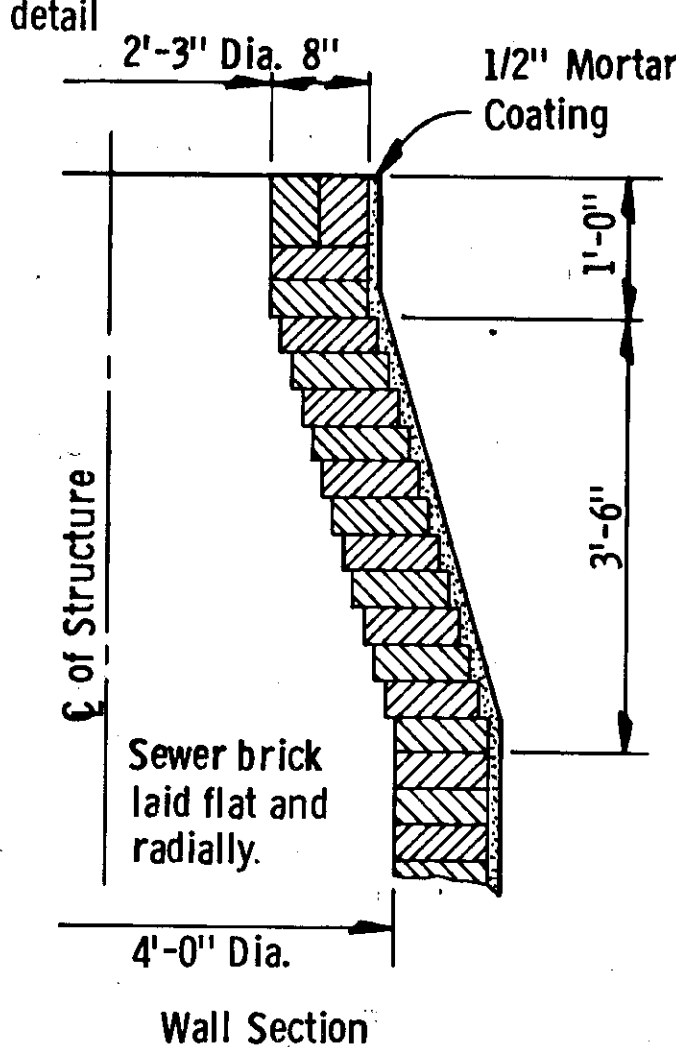
Reinforcing:
Steel fabric circular wires #3 1/2
spaced @ 2" center to center.
Longitudinal wires #9 spaced @ 8"
center to center.

"As Built"

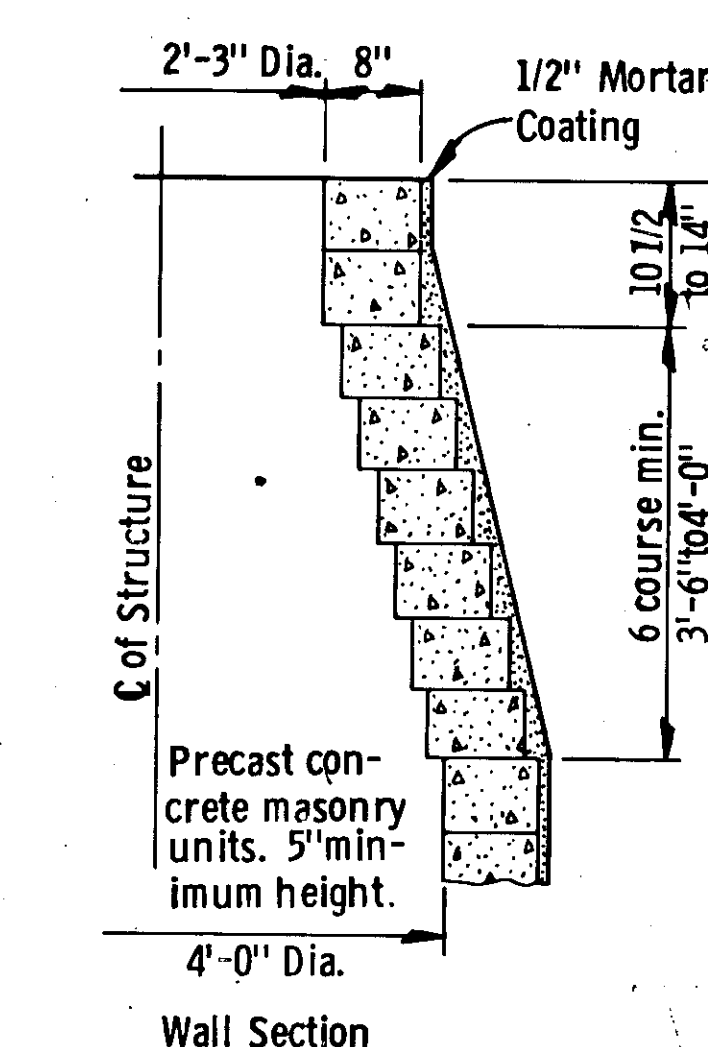


Sectional View

CAST-IN-PLACE CONCRETE MANHOLE

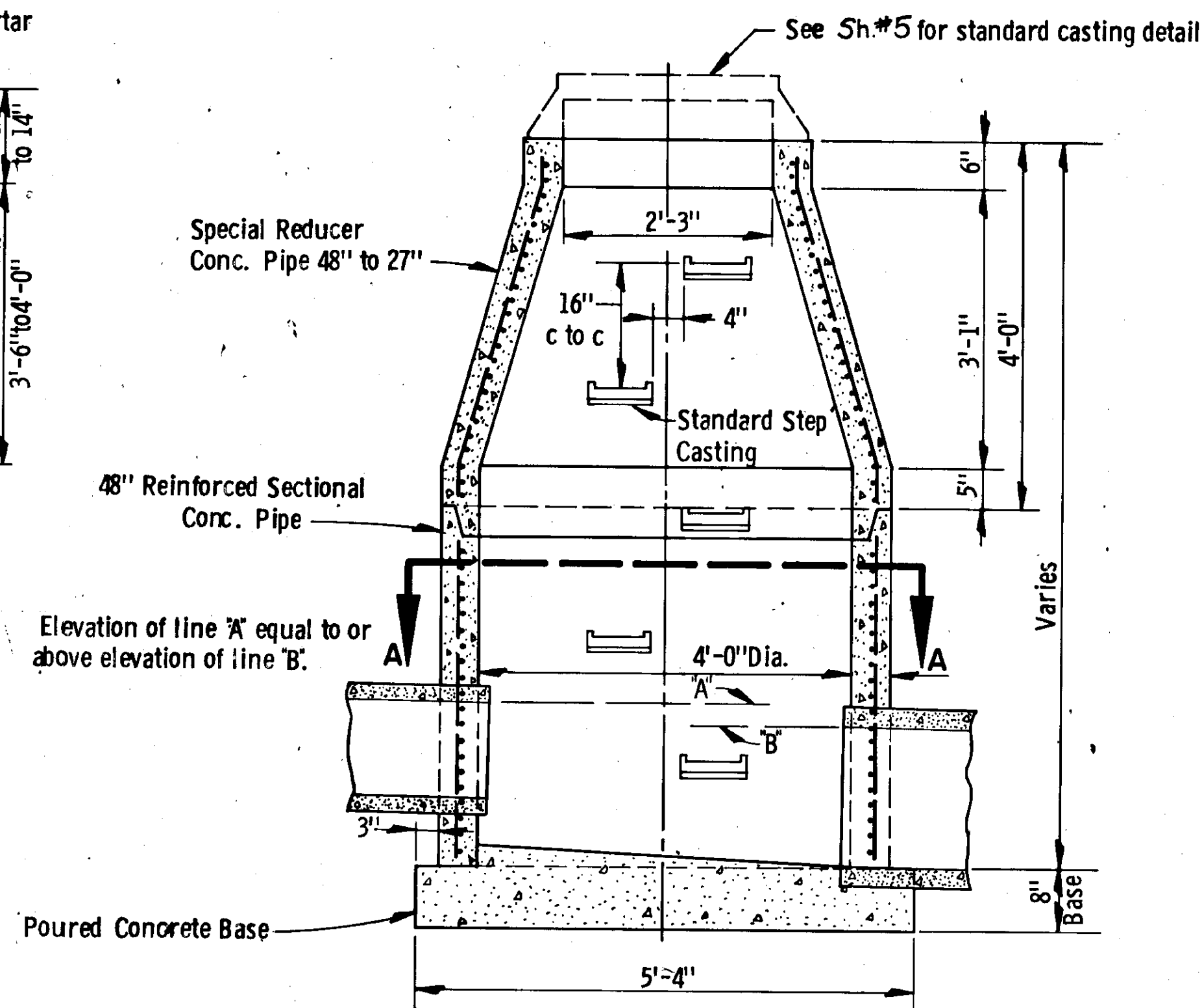


BRICK CONSTRUCTION



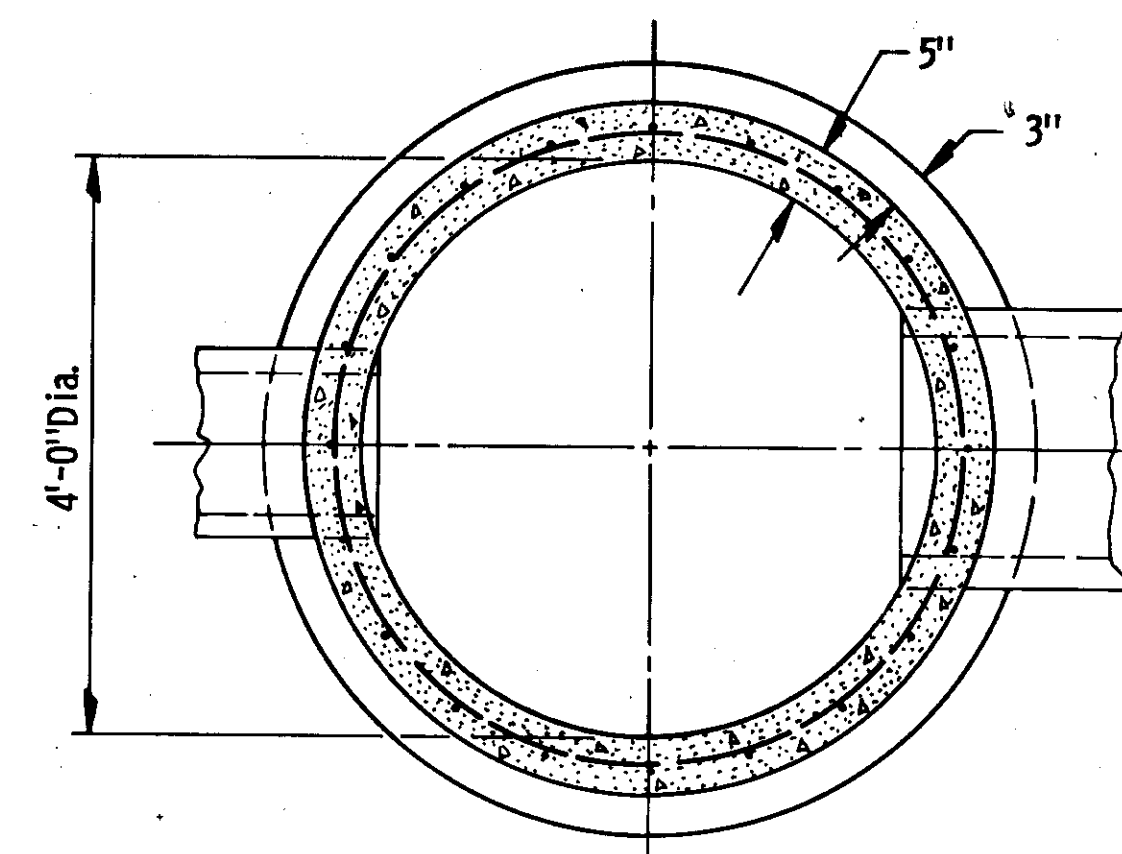
CONCRETE MASONRY UNIT CONSTRUCTION

General dimensions for concrete construction apply to brick and concrete masonry construction also, except as detailed.



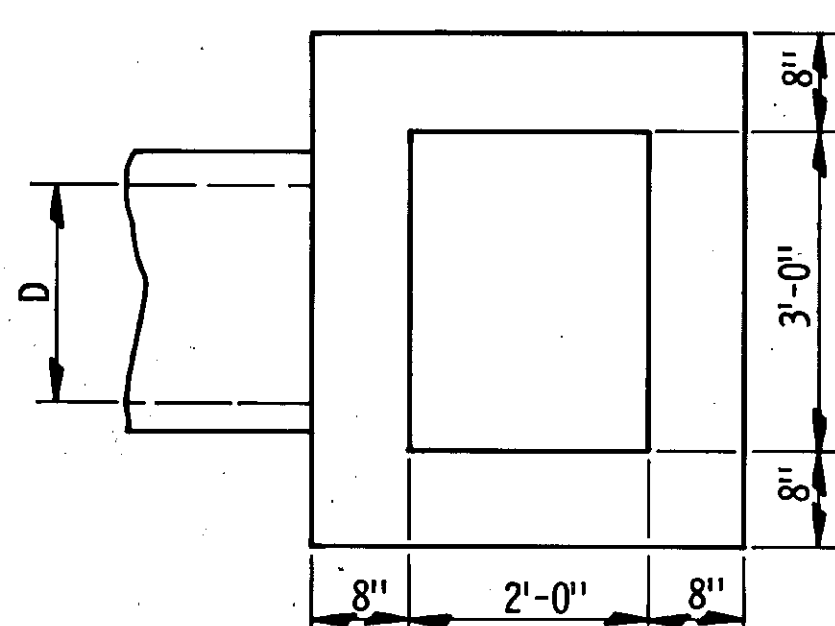
Sectional View

PRECAST CONCRETE MANHOLE

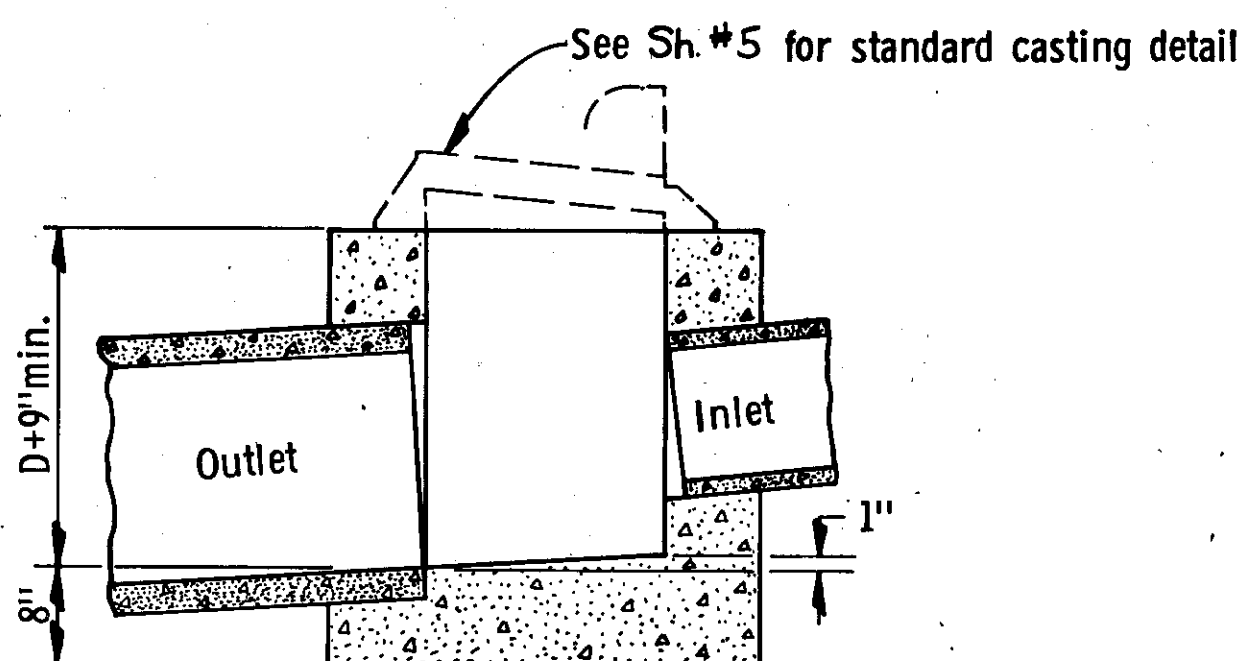


Section A-A

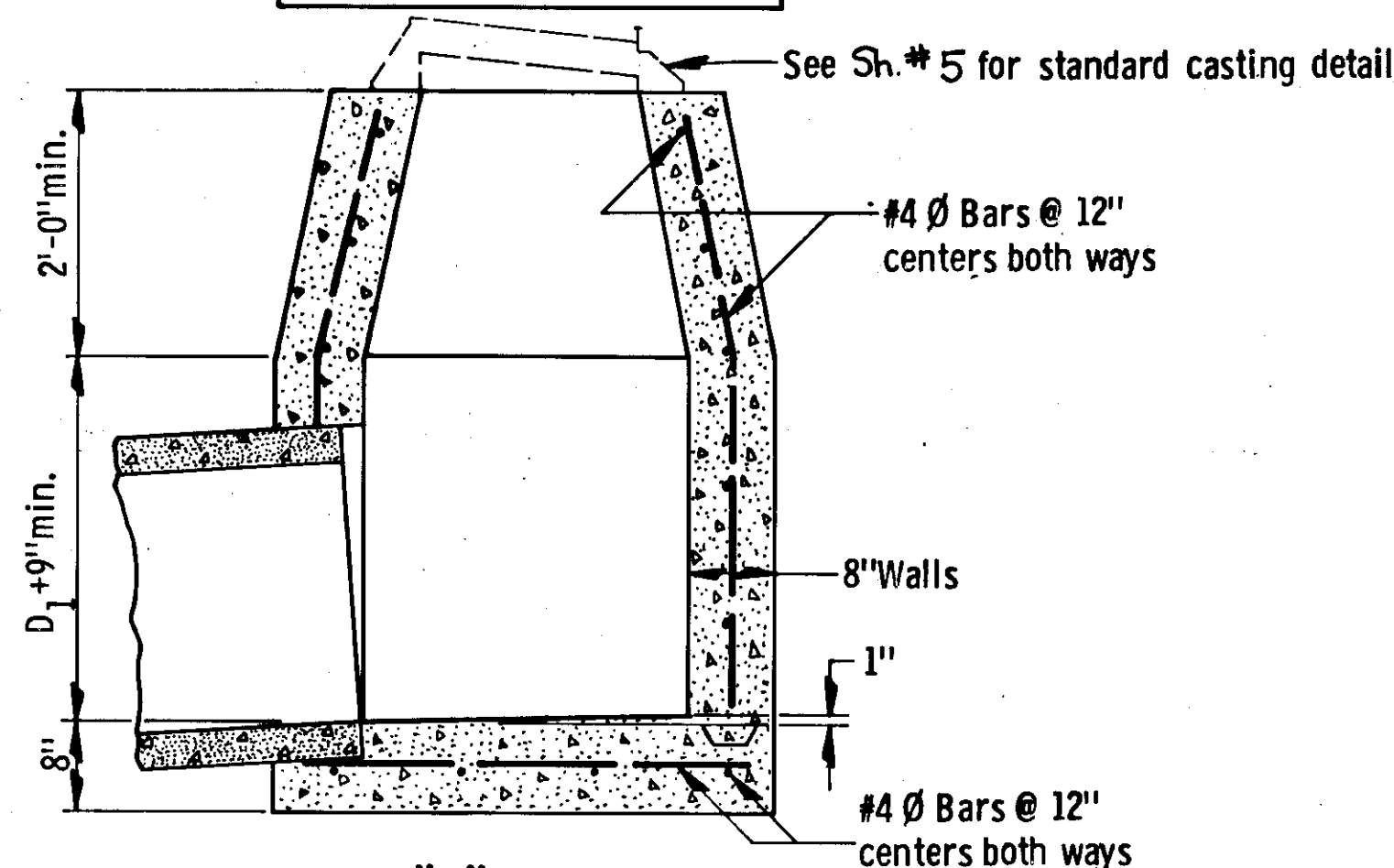
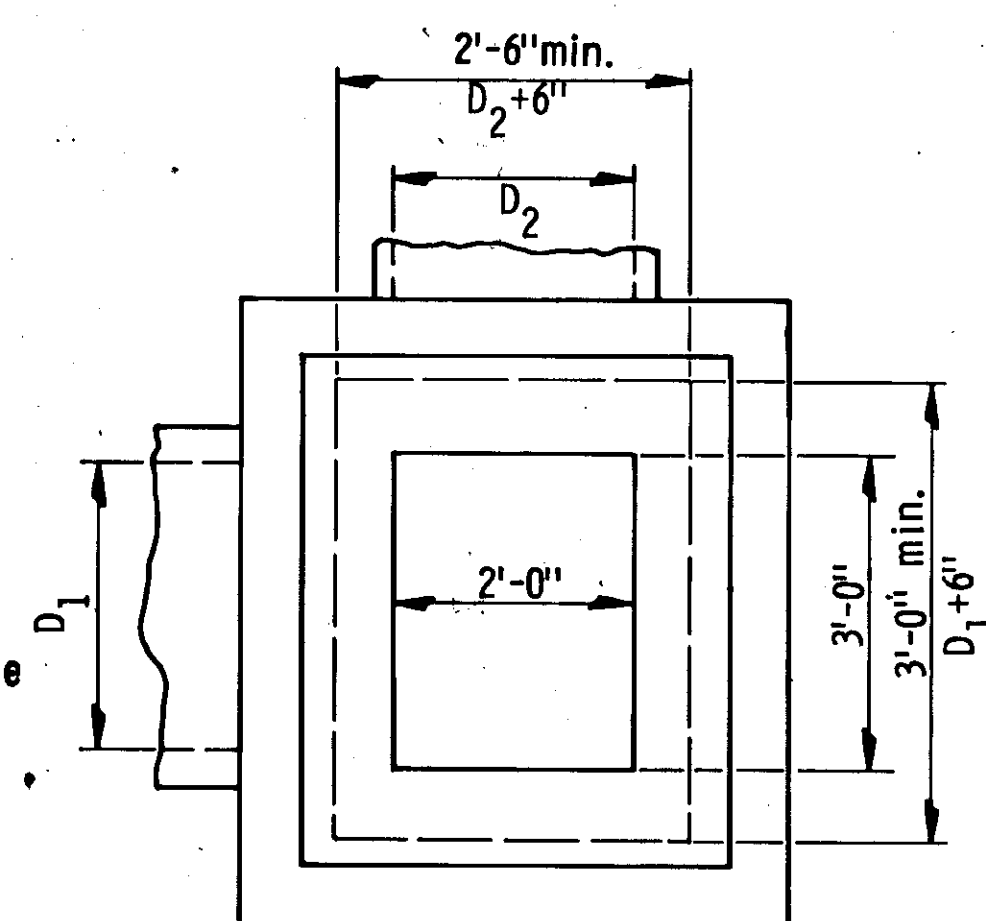
STANDARD MANHOLE DETAILS



NOTE: All inlet boxes shall be constructed with the 2'-0" dimension perpendicular to the curb line.



TYPE "A" INLET BOX



TYPE "B" INLET BOX

GENERAL NOTES

When walls of Type "B" Inlet Box exceed 7' in height standard manhole steps shall be used.

Inlets and Manholes shall be of the depth shown on the plans or as directed by the Engineer.

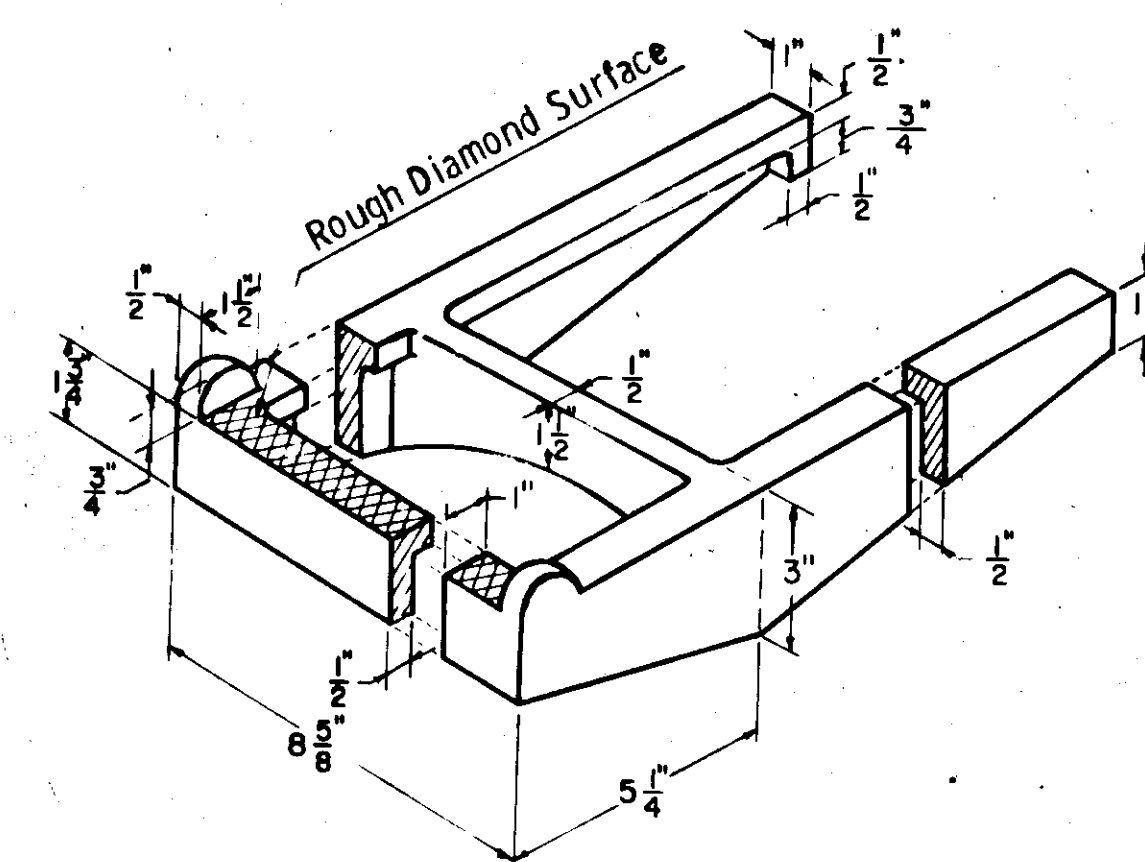
Cast in place concrete shall be Class A.

Inlets shall be parallel to roadway centerline and grade unless otherwise directed by the Engineer.

For pipes on skew, adapt boxes as directed.

Shape floors to drain.

At option of contractor, manhole walls may be of concrete as shown, concrete blocks or of bricks. If of concrete block or brick, walls shall be 8" thick with 1/2" mortar coating on outside.

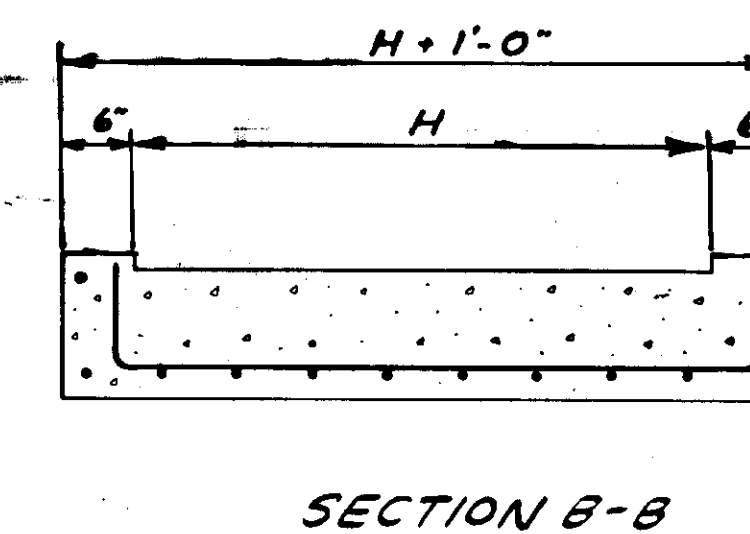
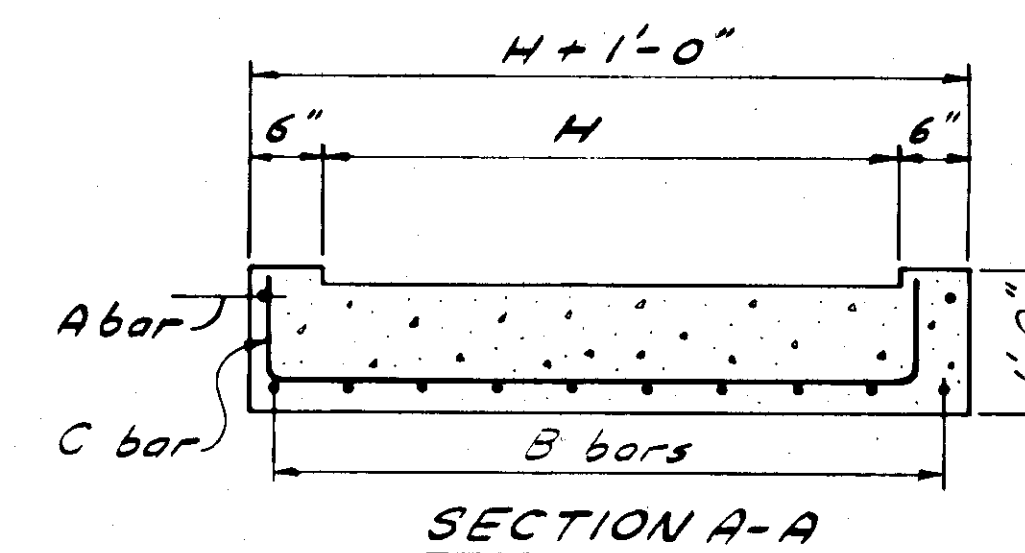
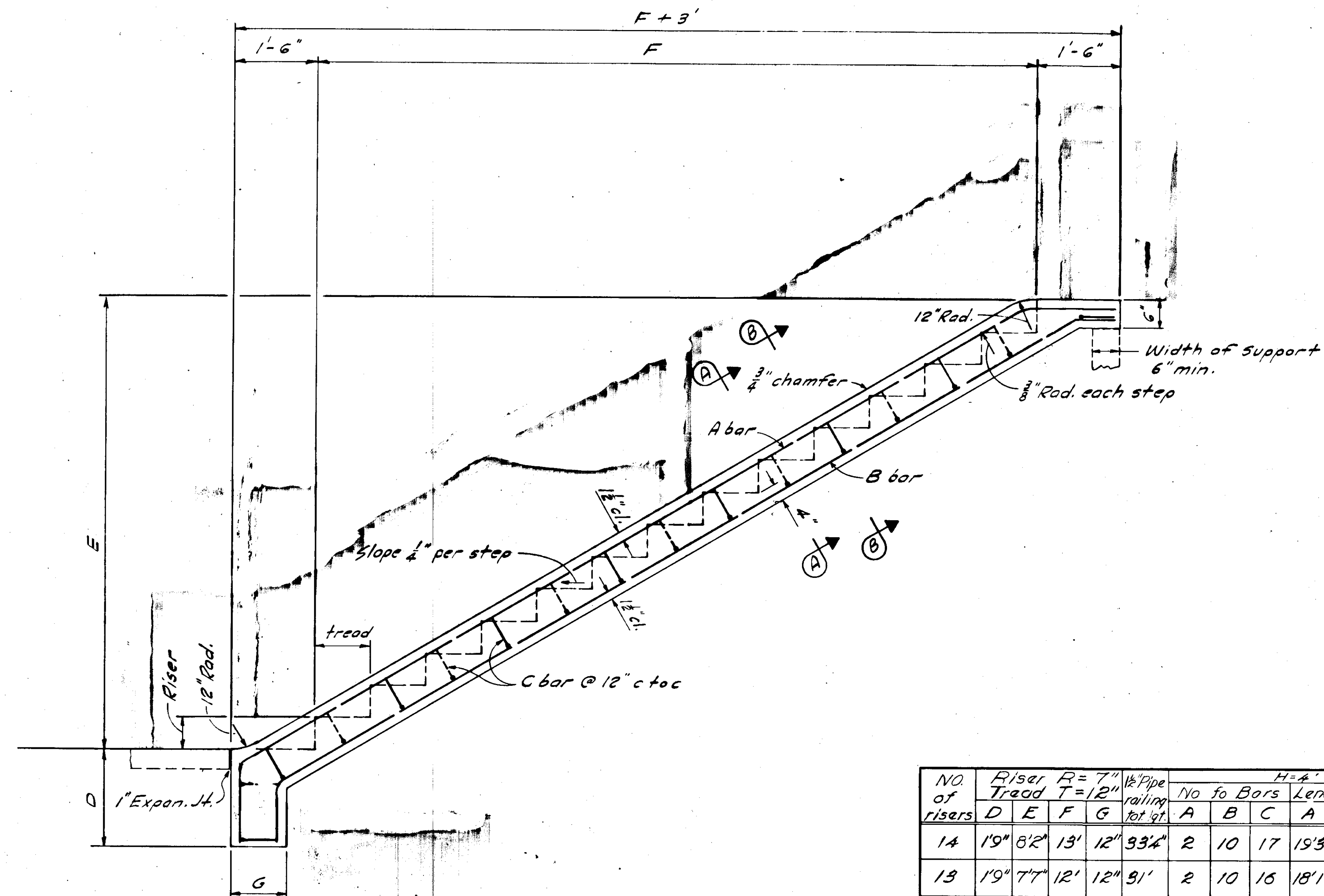


STANDARD STEP CASTING

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DROP INLETS
AND MANHOLES

"As Built"



GENERAL NOTES:

The material and workmanship shall be in accordance with the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-57.

Concrete shall be class "A" concrete. All edges shall be chamfered $\frac{3}{4}$ " where chamfer is shown.

No of risers	Riser Tread				R = 7" T = 12"	1/2 Pipe railing tot 9'	H = 4'						Total steel pounds	Total concrete cu yd
	D	E	F	G			No of Bars			Length of Bars				
14	1'9"	8'2"	13'	12"	33'4"	2	10	17	15'3"	18'3"	6'	216	2.4	
13	1'9"	7'7"	12'	12"	31'	2	10	16	18'1"	17'2"	6'	203	2.3	
12	1'6"	7'	11'	12"	28'8"	2	10	15	16'8"	15'5"	6'	188	2.1	
11	1'6"	6'5"	10'	12"	26'5"	2	10	14	15'5"	14'7"	6'	174	2.0	
10	1'6"	5'10"	9'	10"	24'2"	2	10	13	14'4"	13'6"	6'	161	1.8	
9	1'6"	5'5"	8'	10"	21'10"	2	10	12	13'2"	12'4"	6'	148	1.6	
8	1'3"	4'8"	7'	10"	19'6"	2	10	10	11'5"	10'11"	6'	129	1.5	
7	1'3"	4'1"	6'	8"	17'2"	2	10	9	10'7"	9'11"	6'	116	1.3	
6	1'3"	3'6"	5'	8"	14'10"	2	10	8	9'6"	8'9"	6'	103	1.2	
5	1'3"	2'11"	4'	8"	12'6"	2	10	7	8'4"	7'7"	6'	90	1.0	
4	1'3"	2'4"	3'	6"	10'4"	2	10	6	7'2"	6'6"	6'	77	.9	
3	1'3"	1'9"	2'	6"	—	2	10	5	6'	5'4"	6'	64	.7	
2	1'3"	1'2"	1'	6"	—	2	10	4	4'10"	4'2"	6'	50	.6	

STAIR LOCATION				
Project	Station	Location	Est. No of Risers	Class "A" Conc.
S-0933(5)	"L" 5+76	Rt.	2	0.6 Cu. Yds.
"	"L" 6+20	Rt.	2	0.6 " "
"	"L" 11+96.88	Rt.	2	0.6 " "
"	"L" 12+17.47	Rt.	3	0.7 " "
"	"L" 12+37.82	Rt.	3	0.7 " "
"	"L" 12+59.51	Lt.	3	0.7 " "
"	"L" 12+73.54	Rt.	3	0.7 " "
"	"L" 18+35.49	Lt.	2	0.6 " "
"	"L" 20+97.71	Lt.	2	0.6 " "
"	"L" 21+32.55	Lt.	2	0.6 " "
F-099-3(3)				
"	"D" 16+27	Rt.	3	0.7 " "
"	"L" 56+20	Lt.	4	0.9 " "
"	"L" 56+75	Lt.	3	0.7 " "
			TOTAL =	8.7 Cu. Yds.

One inch expansion joint shall be placed at the end of the steps where steps abut proposed or existing concrete sidewalk.

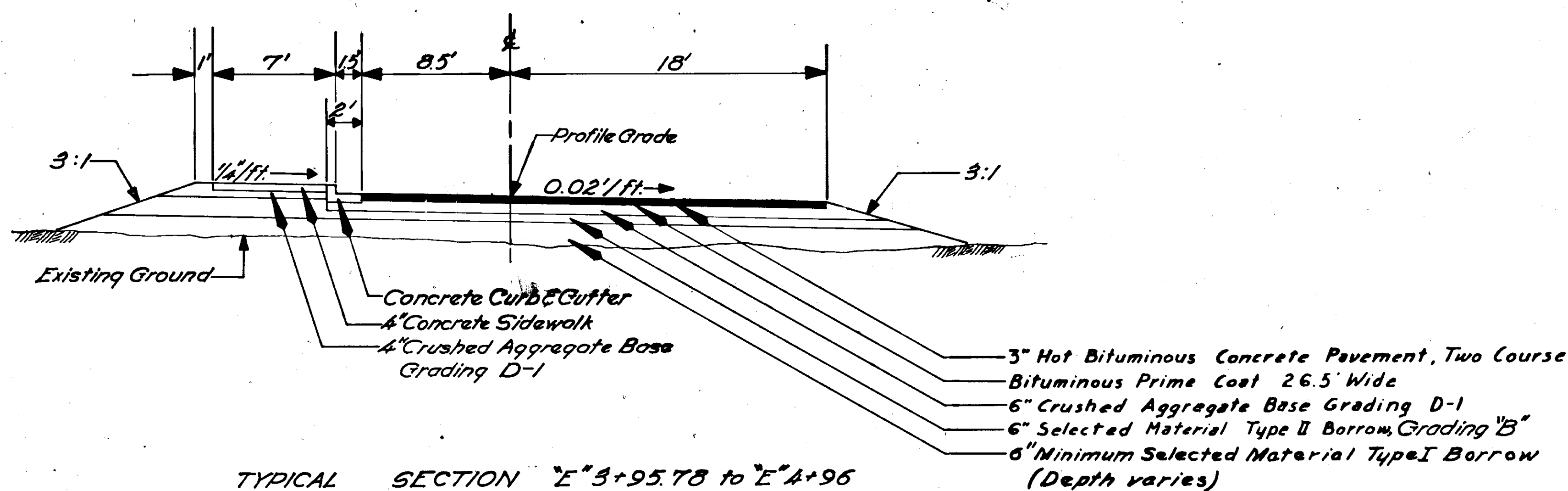
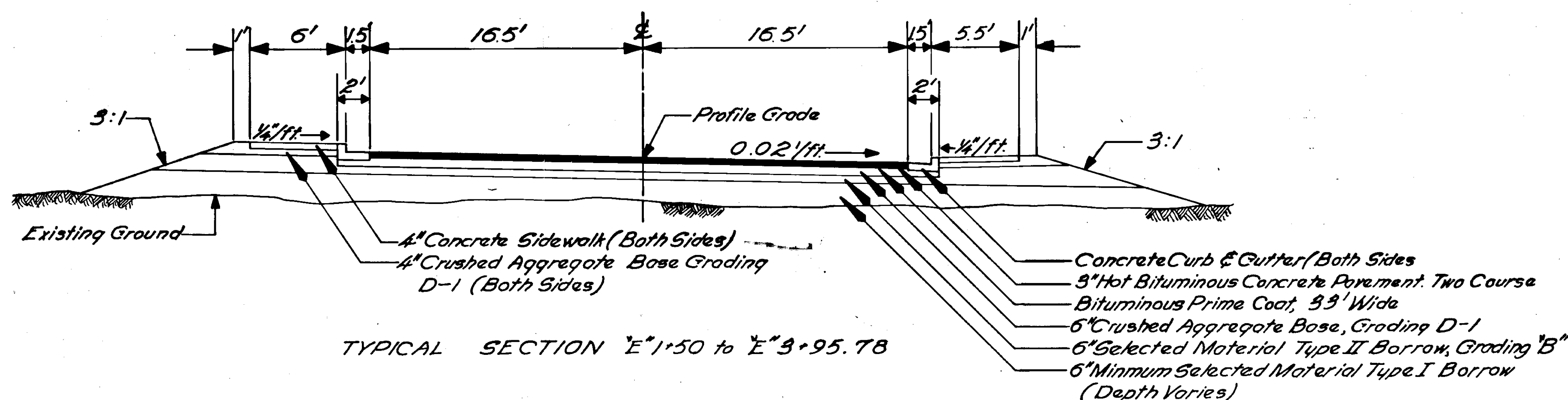
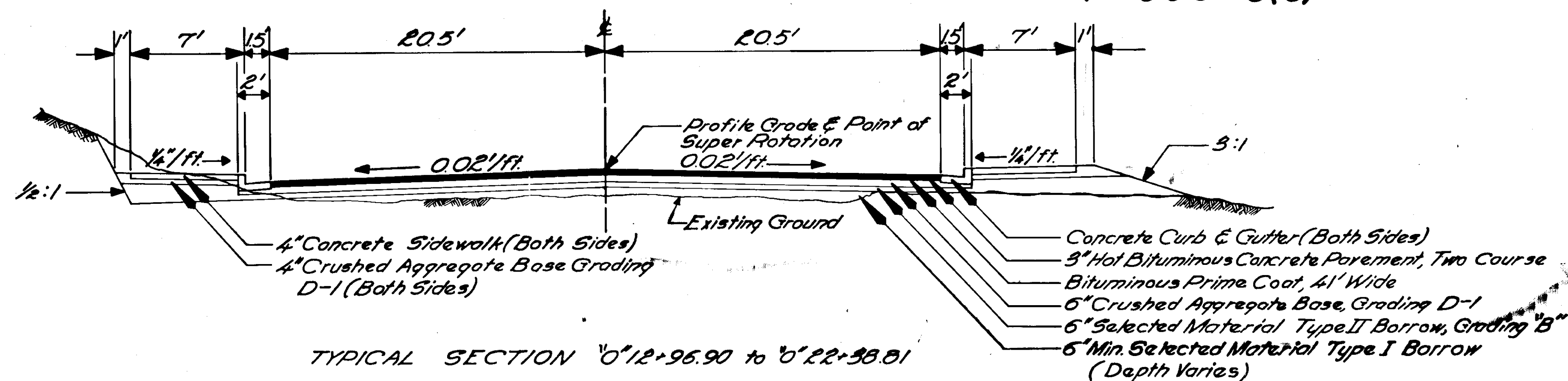
All steel reinforcement shall be $\frac{1}{2}$ " round bars. Splices in reinforcing steel shall overlap a minimum length of 40 diameters.

Reinforcement steel shall be considered incidental to the items of work covered under section 406.

"As Built"

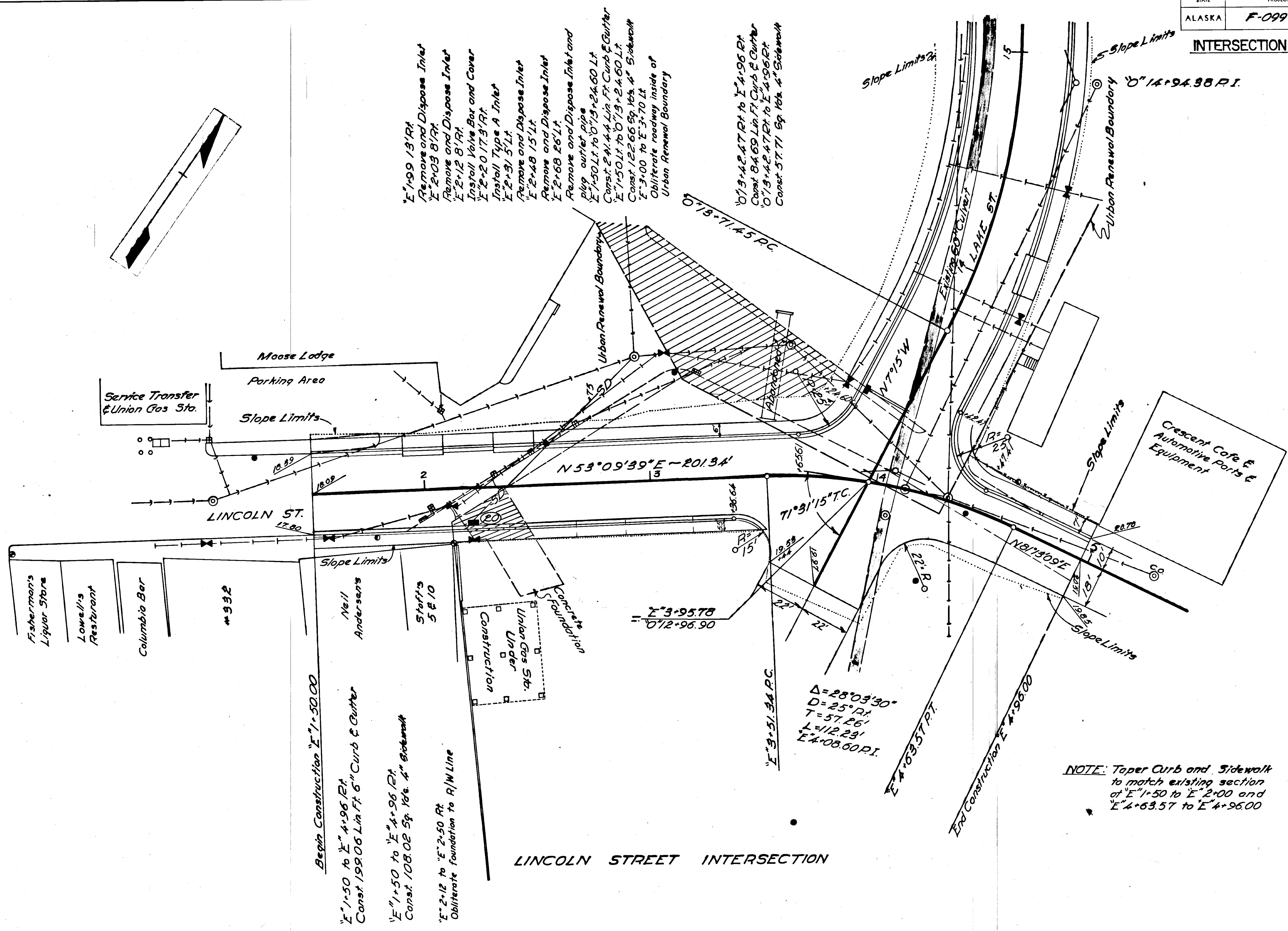
URBAN RENEWAL SECTION F-099-3(3)

ESTIMATE of QUANTITIES



ITEM NO.	QUANTITY	UNIT	ITEM
102(1)	1754	Cu. Yd.	Unclassified excavation
102(7)	3,433	Ton	Selected material, type I borrow, Case 2
102(7A)	4118	Ton	Selected material, type II borrow, Case 2, grading "B"
103(1)	116	Cu. Yd.	Excavation for structures
111(1)	4	Unit	Obliterate old roadway
200(4)	2660	Ton	Crushed aggregate base, grading D-1
310(3)	1561	Gal.	Asphalt, grade MC-30, prime coat
322(1)	875	Ton	Hot bituminous concrete pavement
322(2)	13,297	Gal.	Asphalt cement, 120-150 penetration
406(1)	0.70	Cu. Yd.	Class "A" concrete
453(5C)	179	Lin. Ft.	12" Corrugated metal pipe
521(2A)	6	Each	Inlet, type A
521(6)	2	Pair	Manhole frames and covers
521(7)	7	Each	Adjusting manholes
521(10)	2	Each	Adjusting cleanouts
524(3)	2336	Lin. Ft.	Concrete curb and gutter, 6 inch depth
530(1)	1487	Sq. Yd.	Concrete sidewalk, 4 inch depth
530(2)	50	Sq. Yd.	Concrete sidewalk & driveways, 6 inch depth
560(5)	6	Each	Brass cap monuments
561(1)	6	Each	Monument cases
584(1)	4	Each	Standard signs
588(6)	2	Each	Adjusting and/or relocating fire hydrants
588(10)	13	Each	Adjusting valve boxes
588(11)	1	Each	Valve box and cover

INTERSECTION DETAIL
'As Built'



LINCOLN STREET INTERSECTION

NOTE: Taper Curb and Sidewalk to match existing section at E 1+50 to E 2+00 and E 4+63.57 to E 4+96.00

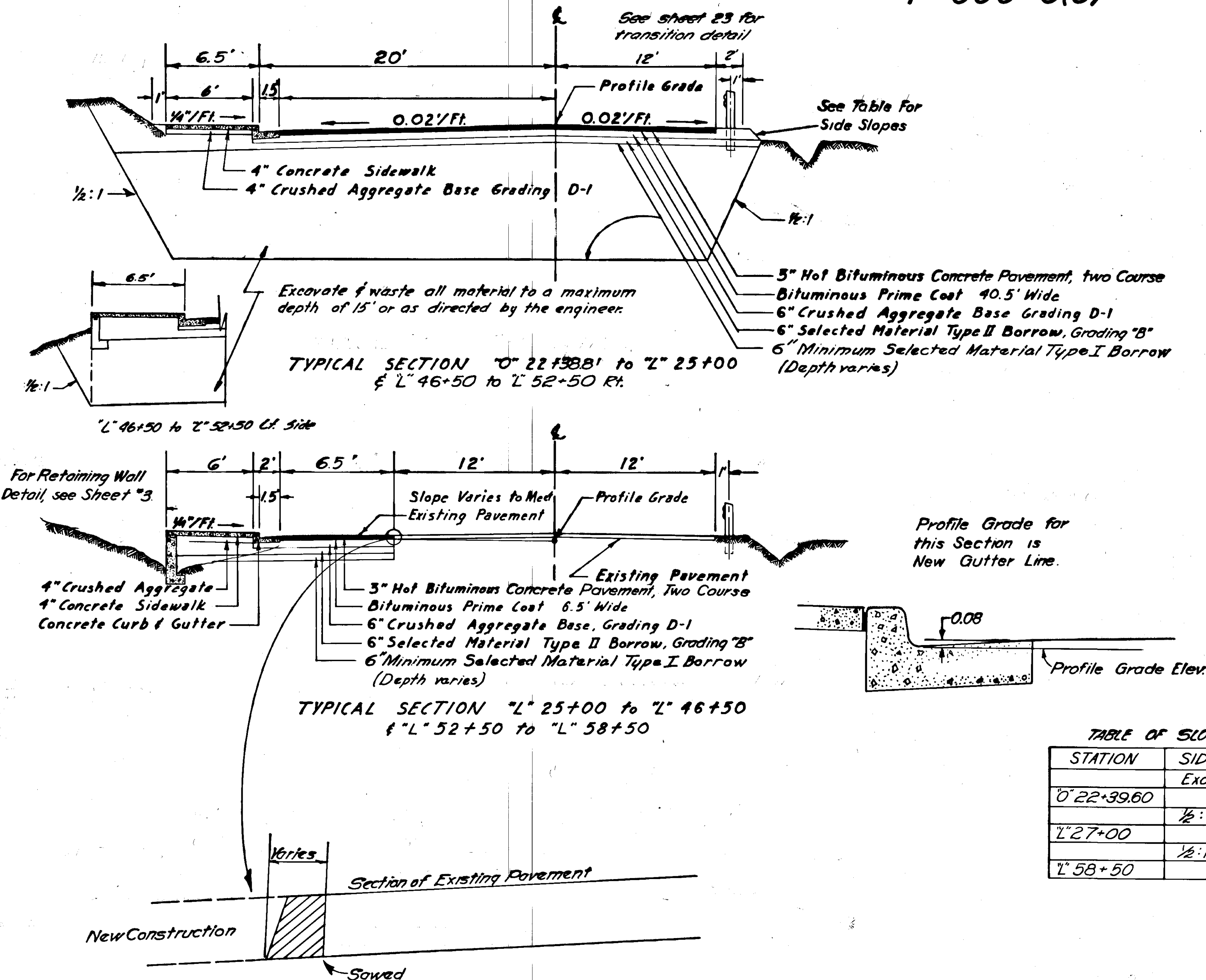
HALIBUT POINT ROAD SECTION F-099-3(3)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-3(3)	1966	12	40

"As Built"

ESTIMATE of QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
102(1)	18,105	Cu. Yd.	Unclassified excavation
102(7)	28,904	Ton	Selected material, type I borrow, Case 2
102(7A)	4,037	Ton	Selected material, type II borrow, Case 2, Grading "B"
103(1)	1,043	Cu. Yd.	Excavation for structures
111(1)	1	Unit	Obliteration of old roadways
200(4)	3822	Ton	Crushed aggregate base, grading D-1
310(3)	1980	Gal.	Asphalt, grade MC-30, prime coat
322(1)	1100	Ton	Hot bituminous concrete pavement
322(2)	16600	Gal.	Asphalt cement, 120-150 penetration
406(1)	141.78	Cu. Yd.	Class "A" concrete
453(5C)	346	Lin. Ft.	12" Corrugated metal pipe
453(5E)	318	Lin. Ft.	18" Corrugated metal pipe
453(5G)	354	Lin. Ft.	24" Corrugated metal pipe
457(1)	400	Lin. Ft.	Removal of culverts
521(1)	3	Each	Standard manholes
521(2A)	7	Each	Inlet, type A
521(2B)	1	Each	Inlet, type B
521(7)	2	Each	Adjusting manholes
524(3)	3421	Lin. Ft.	Concrete curb and gutter, 6 inch depth
530(1)	2013	Sq. Yd.	Concrete sidewalk, 4 inch depth
530(2)	239	Sq. Yd.	Concrete sidewalk & driveway, 6 inch depth
560(4)	1	Each	Guide posts
560(5)	10	Each	Brass cap monuments
561(1)	10	Each	Monument cases
583(2)	1050	Lin. Ft.	Beam-type guardrail, Type I post
584(1)	7	Each	Standard signs
588(2)	587	Lin. Ft.	8" Cast iron water main, class 150
588(6)	1	Each	Adjusting and/or relocating fire hydrants
588(8)	5	Each	Water service connections
588(9)	5	Each	Thaw wire and connection
588(10)	2	Each	Adjusting valve boxes
589(1)	466	Lin. Ft.	6" Cast iron sewer laterals, class 50
589(3)	675	Lin. Ft.	10" Cast iron sewer pipe, class 50
590(1)	36	Lin. Ft.	6" asbestos cement pipe
589(4)	44	Lin. Ft.	12" Cast Iron Sewer Pipe, Class 50
589(2)	304	Lin. Ft.	8" Cast Iron Sewer Pipe, Class 50
521(1A)	2	Each	Special Manholes



Profile Grade for this Section is New Gutter Line.

TABLE OF SLOPES

STATION	SIDE SLOPES	
	Exc.	Emb.
0" 22+39.60		
"L" 27+00	1/2:1	3:1
"L" 58+50	1/2:1	2:1

Location of sawed joint to be Field determined by engineer

BUTT JOINT

Where portions of the existing pavement are to be removed, the longitudinal edge to be exposed shall be sawed or neatly cut along the removal lines to a minimum depth of 1 inch before breaking off the surfacing. Prior to placing hot bituminous concrete pavement the exposed edge shall be coated with an application of 120-150 penetration asphalt, as directed by the engineer. No measurement for payment will be made for this work as it shall be considered incidental to other items of work paid for under section 322.

"As Built"

SUMMARY OF STANDARD SIGNS				
STATION	OFFSET		SIGN NO.	TYPE OF SIGN
	LT	RT		
SR-23-0+50	19		R-1	STOP
SR-34-0+65	18		R-1	STOP
SR-35-0+80	19		R-1	STOP
SR-39-0+95	19		R-1	STOP
SR-525-0+75	31		R-1	STOP
SR-52N-0+35		18	R-1	STOP
SR-54-0+30	16		R-1	STOP

CURB CUT SUMMARY		
STATION	TYPE	
SR-23-0+60	I	
"L" 25+33	II	
"L" 26+73	II	
"L" 27+25	I	
"L" 39+75	II	
"L" 42+51	II	
"L" 42+76	II	
"L" 43+68	II	
"L" 43+93	II	
"L" 44+85	II	
"L" 45+10	II	
"L" 46+01	I	
"L" 46+95	II	
"L" 47+57	II	
"L" 47+72	II	
"L" 48+70	II	
"L" 48+95	II	
"L" 49+83	II	
"L" 50+08	II	
"L" 50+69	II	
"L" 55+00	II	
"L" 56+00	II	
"L" 57+33	I	
"L" 58+00	I	

STORM SEWER PIPE SUMMARY									
LOCATION			INVERT ELEVATION		C.M.P.			STRUCT. EXC.	REMARKS
			INLET	OUTLET	12"	18"	24"		
FROM	TO	STA.	FEET		LIN. FEET			CU. YDS	HEIGHT OF COVER
									FT.
		SR-23-0+70	31.5	31.0	40			20	Skew 25° Lt. Ahd.
		SR-24+55 (14)	30.7	30.42	12			7	Ditch from Outlet above to Inlet
		(14) SR-24+40	30.42	30.20		52		25	Ditch Out
		SR-26+78	33.1	32.9	20			8	
		SR-27+25	33.6	33.4	20			8	
		M.H.14 C.B.-2	35.11	34.21	48			34	
		C.B.-2 SR-27+50	34.14	32.00	50			54	
		SR-31+70	46.0	44.0	40			11	Skew 30° Rt. Ahd. 29' of pipe Lt. of E
		SR-35+10	42.5	39.0		60		46	Skew 30° Rt. Ahd. 40' of pipe Rt. of E
		"L" 38+35	55.0	53.5		98		56	Skew 45° Lt. Ahd. 92' of pipe Rt. of E
		SR-46+98	51.00	50.50	38			10	
		"L" 48+03	46.00	45.00		76		78	
		(16) SR-52+00	40.83	39.50		68		39	
		SR-53+35	39.00	38.50	50			10	
		(18) SR-60+22	19.76	14.00	176			155	Connect to Existing 72" C.M.P. With 12" Lt. Saddle
		(19) (17)	32.76	26.08	130			55	
		(24) 60" C.M.P.	30.70	25.0	40			25	Connect to Existing 60" C.M.P. With 12" Lt. Saddle Connection
Totals					346	318	354	641	

* Corrugated Aluminum Pipe

STRUCTURE SUMMARY													
STATION	LOCATION	STRUCTURE	STANDARD CONCRETE MANHOLE	SPECIAL CONCRETE MANHOLE	DROP INLET TYPE A	DROP INLET TYPE B	STRUCTURE ELEVATIONS						
			EACH		EACH	EACH	COVER	INVERT					
SR-22+75	19.3' Lt.	IB (24)			1		32.85	30.70					
"L" 24+40	19.3' Lt.	IB (4)			1		33.59	30.42					
"L" 27+50	19.3' Lt.	C.B.1			1		37.38	33.47					
"L" 33+50	19.3' Lt.	C.B.2				1	39.71	34.13					
"L" 34+00	32.0' Lt.	M.H.14	1				41.11	36.11					
"L" 47+90	12' Rt.	M.H.	1				51.15	41.13					
"L" 51+40	12' Rt.	IB (6)			1		43.98	40.83					
"L" 52+00	12' Rt.		1				42.04	37.28					
"L" 54+00	19.3' Lt.	IB (6)			1		34.95	32.76					
"L" 55+30.58	19.3' Lt.	IB (7)			1		30.37	26.00					
"L" 58+45	19.3' Lt.	IB (6)			1		21.91	19.76					
"L" 23+78.8	.78' Rt.	M.H. (4)		1			33.89	29.31					
"L" 26+00	3.62' Rt.	M.H. (4)		1			34.40	30.35					
TOTALS			3	2	7	1							

SANITARY SEWER AND WATER PIPE SUMMARY							
STATION TO STATION		INVERT		CAST IRON PIPE			REMARKS
		IN	OUT	8"	10"	12"	
"L" 46+45	"L" 47+50	51.91	50.06	105			Water Main
"L" 47+50	"L" 48+50	50.06	48.48	100			Water Main
"L" 48+50	"L" 50+00	48.48	45.47	150			Water Main
"L" 50+00	"L" 51+42	45.47	40.00	142			Water Main
"L" 51+42	"L" 52+31.7	40.00		90			Water Main
"L" 45+75	"L" 47+90	49.93	41.43		215		Sanitary Sewer Meet Exist. Elev. M.H. 2 to M.H. 3
"L" 47+90	"L" 52+00	41.43	37.28		410		Sanitary Sewer Meet Exist. Elev. M.H. 2 to M.H. 3
"L" 52+00	"L" 52+50	37.28			50		Sanitary Sewer Meet Exist.
"L" 23+33	"L" 23+78.8	29.31				44	Sanitary Sewer Meet Exist.
"L" 23+78.8	"L" 24+40	29.46				27	Sanitary Sewer Meet Exist.
"L" 24+40	"L" 26+00	30.35	29.46	80		69	
TOTALS				891	675	44	288

Note: See Sheet No. 4 for List of 6" Cast Iron House Sewer Connections

LIST OF MISCELLANEOUS WORK									
STATION	OFFSET	DESCRIPTION	ADJUST MANHOLES	ADJUST VALVE BOXES	REMOVE & DISPOSE CULVERT	ADJUSTING AND/OR RELOCATE FIRE HYDRANTS	OBSTITUTE PAVEMENT		
			EACH	EACH	LIN. FEET		UNIT		
SR-23-0+60	22' Rt.	12" C.M.P.			31				
"L" 23+18	22' Rt.	8" C.M.P.			15				
"L" 23+18	22' Rt.	36" C.M.P.							
"L" 24+11	12' Lt.			1					
"L" 24+33		24" C.M.P.			75				
"L" 25+36		24" C.M.P.			13				
"L" 26+70	26' Lt.	12" C.M.P.			39				
"L" 27+50		24" C.M.P.			6				
"L" 33+68		24" C.M.P.			16				
"L" 35+15	29' Lt.	18" C.M.P.			54				
"L" 38+52	35' Lt.	12" C.M.P.			43				
"L" 47+00	23' Rt.	18" C.M.P.			24				
"L" 48+03		24" C.M.P.			84				
"L" 49+00	12' Rt.		1						
"L" 52+00	13' Rt.		1						
"L" 52+32	15' Lt.			1					
"L" 52+50	Lt.	Relocate to back of Curb				1			
"L" 24+50 to "L" 24+50	Rt.	Obilitate Existing Sidewalk and Pavement					1		
TOTALS			2	2	400	1	1		

INTERSECTION DETAILS
"As Built"

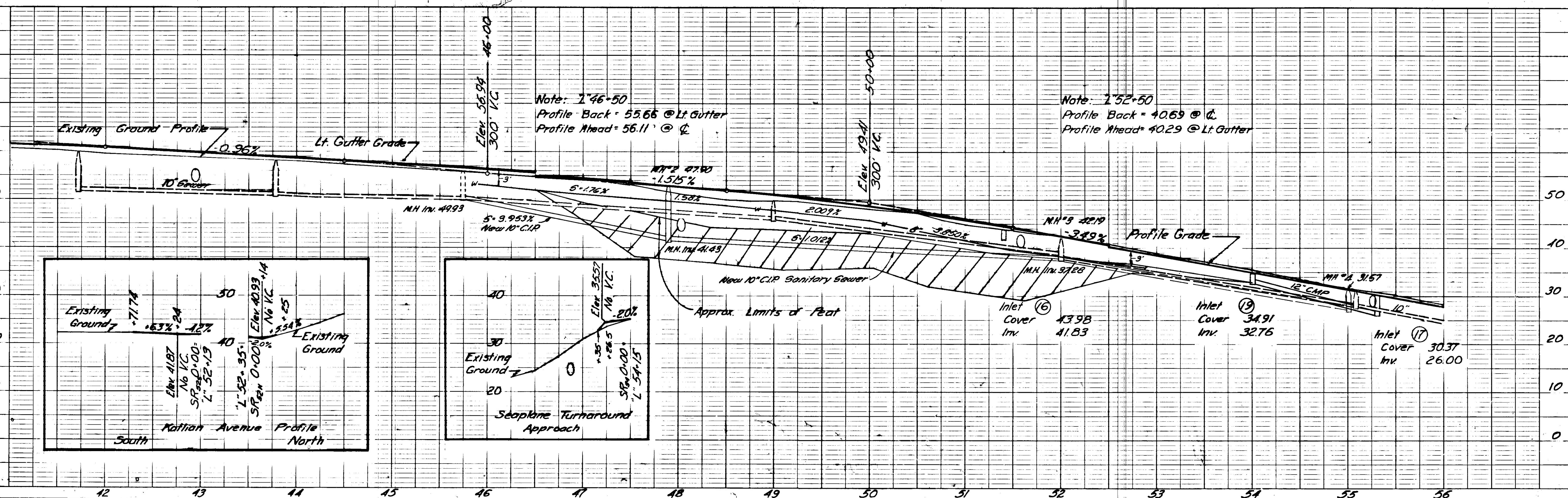
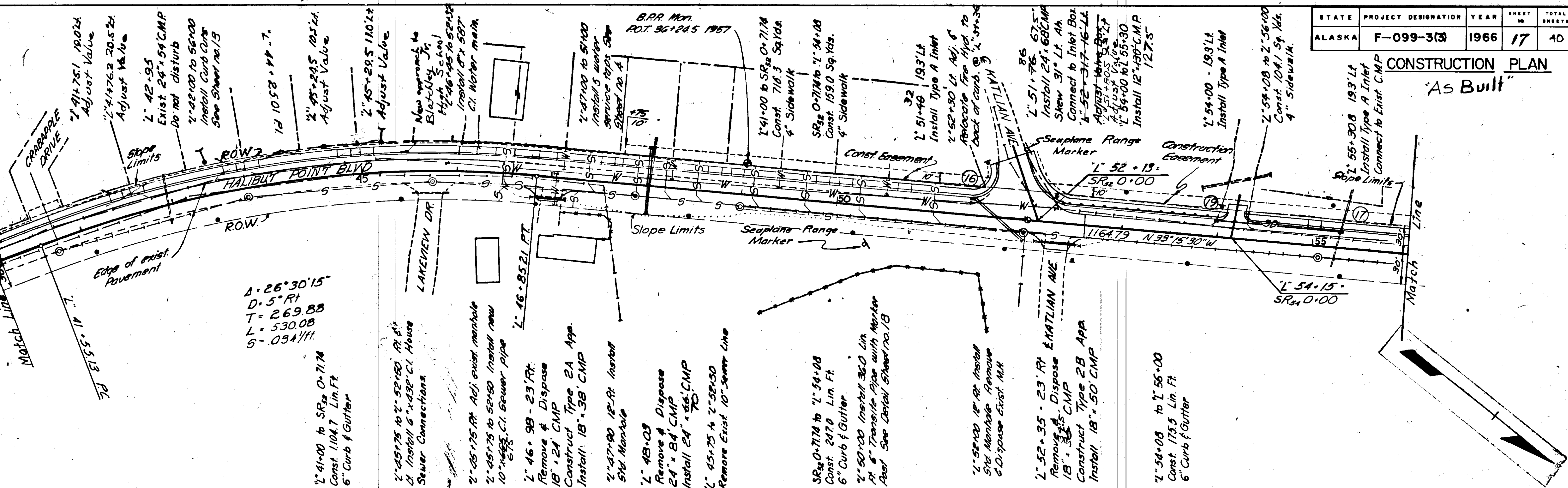


Note:
All elevations at curb & gutter
are to flow line of gutter.

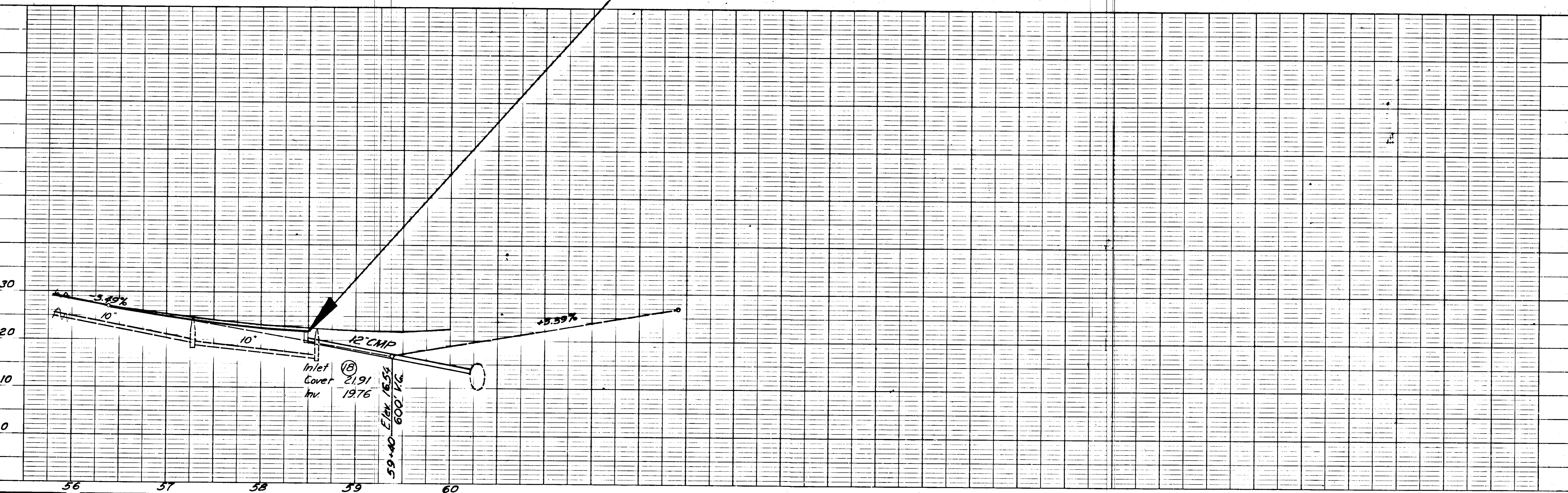
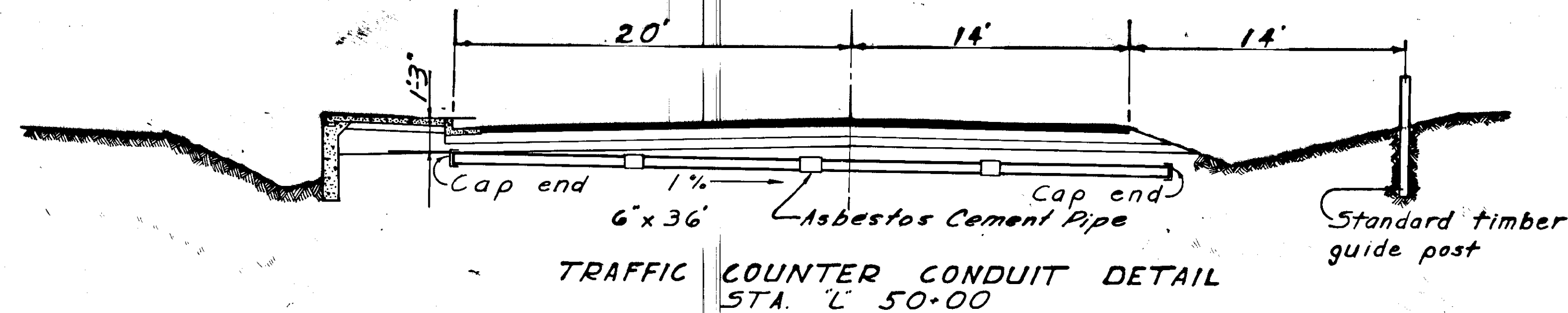
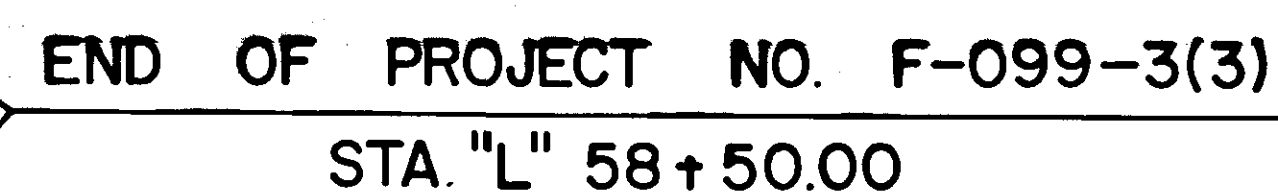
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-3(3)	1966	17	40

CONSTRUCTION PLAN

"As Built"



CONSTRUCTION PLAN
"As Built"

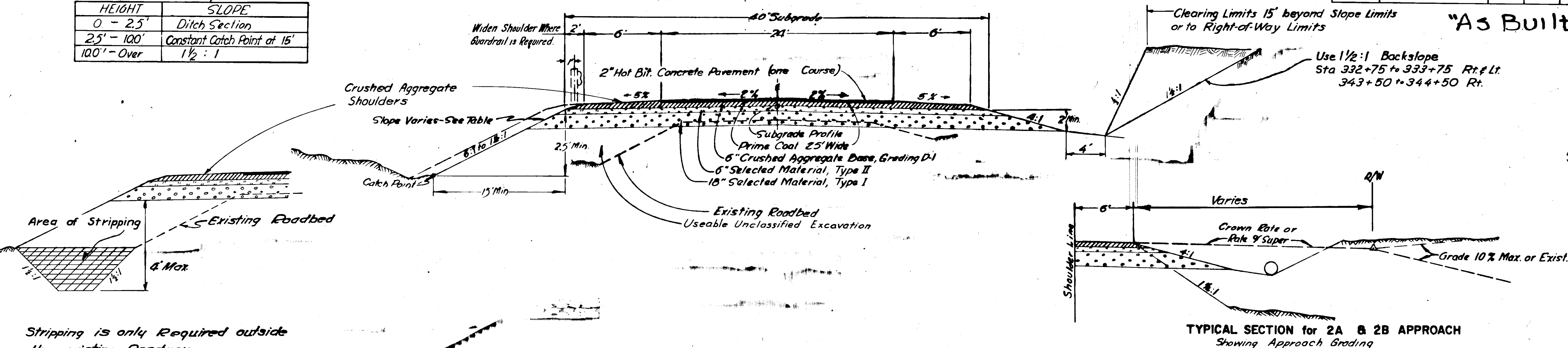


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-3(6)	1966	19	40

SLOPE TABLE

HEIGHT	SLOPE
0 - 2.5'	Ditch Section
2.5' - 100'	Constant Catch Point at 15'
100' - Over	1 1/2 : 1

Station 327+61.20 to 359+00



Stripping is only Required outside the existing Roadway

Sta. 330+50 to Sta. 334+00
343+00 to 347+75
349+20 to 350+50

ESTIMATE of QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
100 (5)	Lump Sum	All Reg'd	Clearing and Grubbing
102 (1)	18,757	Cu. Yd.	Unclassified Excavation
102 (7A)	4,693	Ton	Selected Material, Type II Borrow, Case 2 Grading B
103 (1)	54	Cu. Yd.	Excavation for Structures
200 (4)	4,633	Ton	Crushed Aggregate Base, Grading D-1
310 (3)	2,622	Gal.	Asphalt, Grade MC-30 Prime Coat
322 (1)	940	Ton	Hot Bituminous Concrete Pavement
322 (2)	14,297	Gal.	Asphalt Cement, 120-150 Penetration
453 (5E)	52	Lin. Ft.	18" Corrugated Metal Pipe
453 (5G)	316	Lin. Ft.	24" Corrugated Metal Pipe
457 (1)	225	Lin. Ft.	Removal of Culverts
560 (1)	11	Each	Right-of-Way Monument
583 (1)	1125	Lin. Ft.	Beam-Type Guardrail, Type I post
584 (1)	5	Each	Standard Signs

Table of Standard Signs

Station	Lt.	Rt.	Sign No.	Type of Sign
328+00		20'	W1-4R	Reverse Curve
352+00		20'	W5-2	Narrow Bridge
354+00	20'		W1-4R	Reverse Curve
358+00	20'		W5-2	Narrow Bridge
358+00	40'		R1-1	Stop

Guardrail Location Table

Station to Station	Lt.	Rt.	Lin. Ft.
331+25 to 333+25	Lt.		200'
335+75 to 343+45	Lt.		775'
353+67 to 354+42		Rt.	75'
354+17 to 354+42	Lt.		25'
355+34 to 355+59	Lt.	Rt.	25'
TOTAL			1125

TABLE of STANDARD APPROACHES

Station	Type	Type I Cu. Yds.	Type II TON	Crushed Agg. TON	Remarks
351+00 Lt.	2A	23	22	22 TON	
352+70 Rt.	2A	9	22	22 TON	
353+00 Lt.	2A	16	22	22 TON	
356+00 Lt.	2A	31	22	22 TON	
357+64 Rt.	2A	6	22	22 TON	
358+00 Lt.	1	18	36	72 TON	Approach to Ferry Term.

Approach quantities are included in estimate of quantities.

LIST of CULVERTS

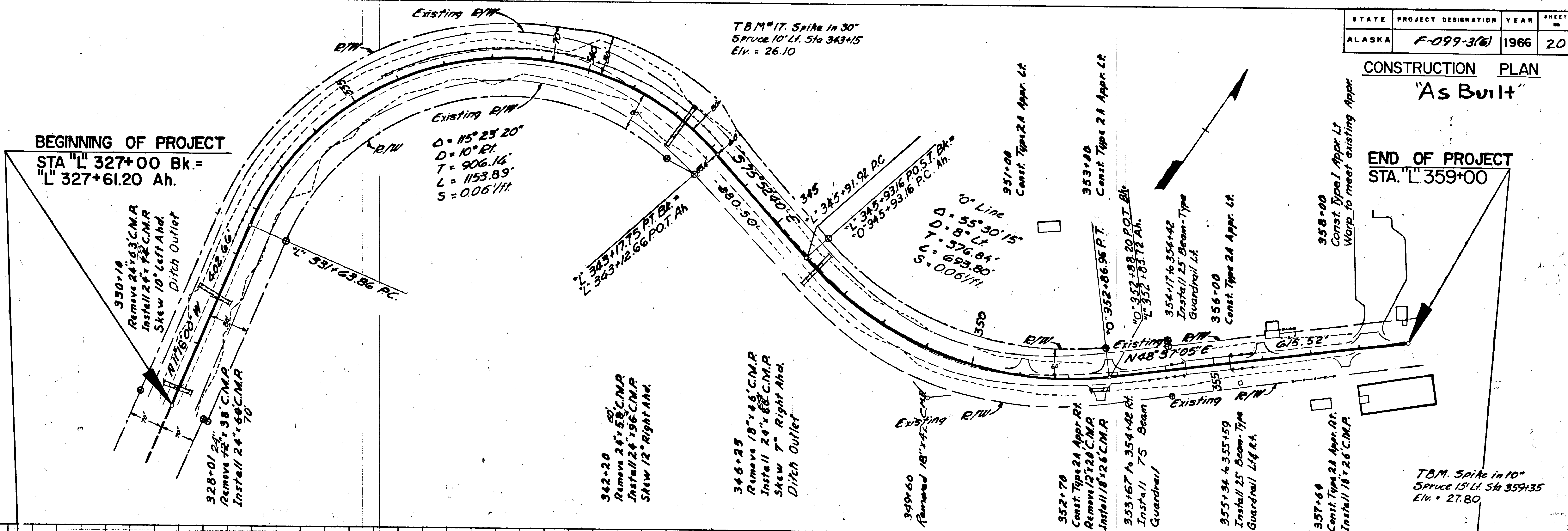
Station	Existing	Install	Str. Ex.	Height Of Cover	Remarks
328+01	12"x18"	24"x60"	2	4'	
350+10	24"x63"	24"x74"	32	6'	Stew 10° Lt. Ah. & ditch outlet
342+20	24"x58"	24"x96"	12.	8'	Stew 12° Rt. Ah.
346+25	18"x46"	24"x86"	8	2'	Stew 7° Rt. Ah. & ditch outlet

APPROACH CULVERTS

352+70	12"x20"	18"x26"		2'	Rt.
357+64		18"x26"		2'	Rt.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-3(6)	1966	20	4

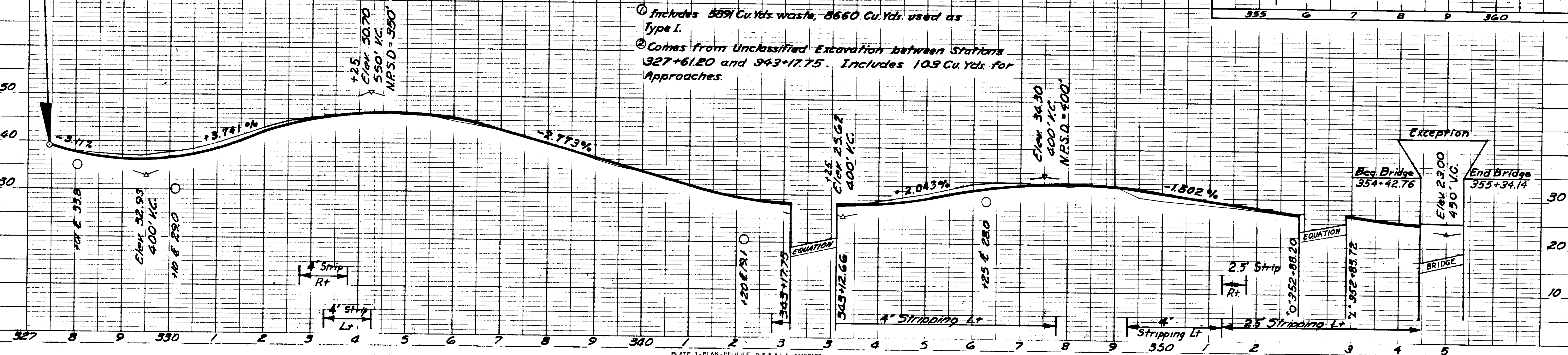
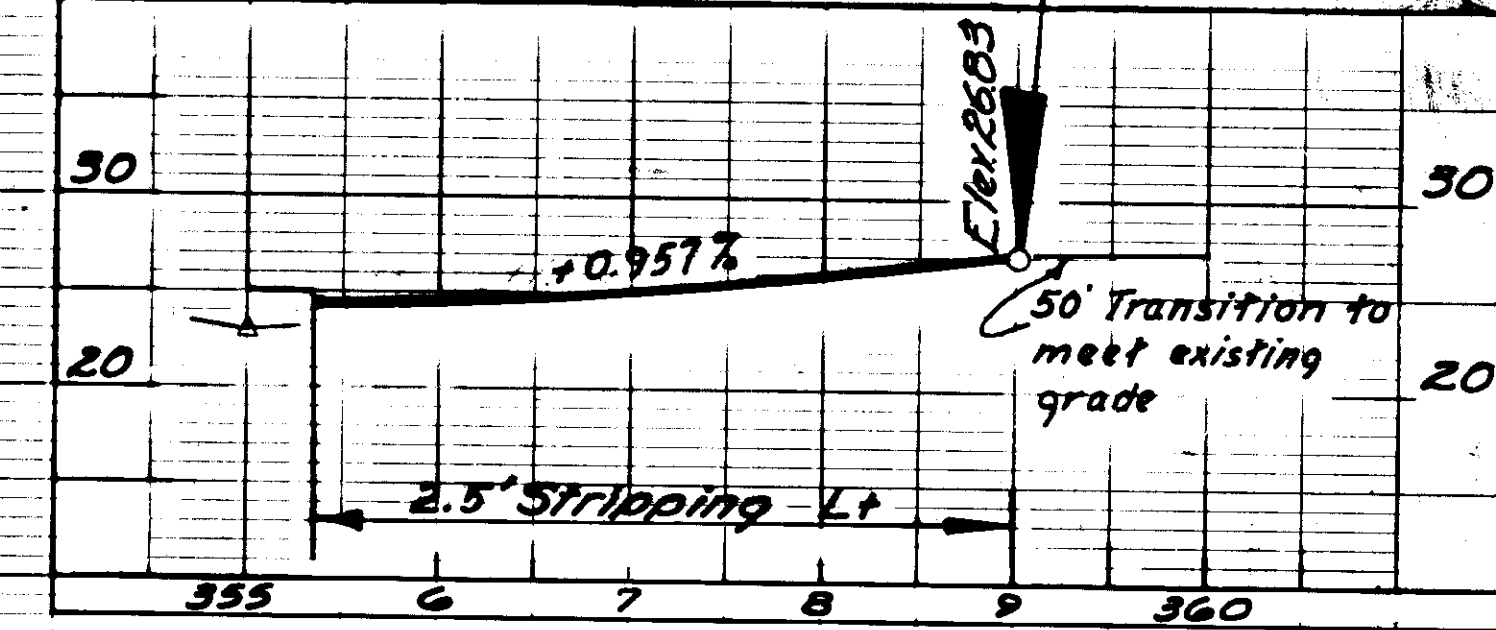
CONSTRUCTION PLAN
"As Built"



Balance Equation: Embankment = (Exc. - Waste) + Type II

Clearing & Grubbing	1.86	Acre
Embankment	Cu. Yd.	19,339
Unclassified Excavation ①	Cu. Yd.	18,757
Selected Material, Type I ②	Cu. Yd.	8660
Selected Material, Type II Borrow	Ton.	4,693
Overhaul Roadway Exc.	Yd. Mi.	0
Overhaul Borrow	Yd. Mi.	0

- ① Includes 5891 Cu. Yds. waste, 8660 Cu. Yds. used as Type I.
② Comes from Unclassified Excavation between Stations 327+61.20 and 343+17.75. Includes 109 Cu. Yds. for Approaches.



"As Built"

PIPE SUMMARY

LOCATION	INVERT ELEVATION	CAST IRON PIPE	C.M.P.	STRUCT. EXC.	HEIGHT OF COVER	REMARKS
FROM	TO	FEET	FEET	FEET	FEET	
"L" 0+43	52.0	50.5		46	34	4 Stew 5° Lt. Abd.
(1)	(2)	41.38	40.75		104	8 2
(2)	M.H. 1	40.66	37.76		132	45 4
M.H. 1	M.H. 3	37.67	34.15		254	115 4
(3)	M.H. 1	39.88	37.77		26	8 2
M.H. 3	M.H. 4	34.06	33.01		122	37 2
"L" 9+40	M.H. 3	34.56	34.10		7	2 Install 18" x 11" C.M.P.
(5)	M.H. 4	33.56	33.04		26	5 4
(6)	M.H. 4	33.56	33.04		12	2 4
M.H. 4	M.H. 5	32.92	31.97		126	60 4
M.H. 6	M.H. 5	34.02	31.97		252	147 4
(7)	M.H. 6	34.76	34.11		80	26 2
(8)	(7)	35.06	34.84		22	3 2
M.H. 5	EXIST. 18" C.M.P.	31.91	31.8		32	10 4
(9)	(10)	34.42	33.00		40	12 4
(10)	(11)	31.92	28.89		202	123 6
(11)	(13)	28.81	25.51		220	83 8
(12)	(13)	29.37	25.51		44	17 8
(13)	EXIST. 60" C.M.P.	25.43	24.33		74	51 8 Connect to Existing 60" C.M.P. With 18" x 60" Saddle
M.H. 10	M.H. 11	45.92	36.96	306		70
M.H. 11	M.H. 12	36.88	28.31	277		284
M.H. 12	PARK ST. STUB	28.23	27.99	80		142
M.H. 14	M.H. 12	29.19	28.31	281		375
DEGROFF ST. STUB	M.H. 12	28.53	28.31	60		109
M.H. 15	M.H. 14	32.70	29.27	288		189
M.H. 13	M.H. 16	31.99	29.24	218		50
M.H. 16	"Q" 21+96	29.15	26.30	212		67
4" sewer	M.H. 12		28.31			0
TOTALS			1722	486	1282	2079

* Corrugated Aluminum Pipe

SUMMARY OF MISCELLANEOUS WORK

STATION	OFFSET	DESCRIPTION	REMOVE & DISPOSE CULVERT LINEAR FEET	ADJUST MANHOLE EACH
"L" 0+40		18" x 49" C.M.P.	49	
"L" 9+40		18" x 35" C.M.P.	35	
"L" 9+65	10' R.	M.H. 14		1
"L" 14+49				1
"L" 21+50		12" x 90" C.M.P.	90	
"Q" 21+85	8' L.			1
"Q" 21+98				1
"Q" 21+11	15' L.			1
TOTALS			174	5

Note: See Sheet No. 4 for list of 6" Cast Iron House Sewer Connections

STRUCTURE SUMMARY

STATION	LOCATION	STRUCTURE	STANDARD CONCRETE MANHOLE EACH	SPECIAL CONCRETE MANHOLE EACH	DROP INLET TYPE A EACH	DROP INLET TYPE B EACH	STRUCTURE ELEVATIONS
"L" 4+50	20.5 Rt.	(1)			1		COVER 43.59 INVERT 41.38
"L" 5+45	20.5 Lt.	(2)			1		42.87 40.66
"L" 6+35	7.0 Rt.	M.H. 1	1				42.67 37.67
"L" 6+80	20.5 Lt.	(3)			1		42.09 39.88
"L" 9+40	7.0 Rt.	M.H. 3		1			37.06 34.06
"L" 10+65	7.0 Rt.	M.H. 4		1			36.17 32.92
"L" 10+65	20.5 Lt.	(5)			1		35.77 33.56
"L" 10+65	20.5 Rt.	(6)			1		35.77 33.56
"L" 11+95	7.0 Rt.	M.H. 5	1				36.96 31.90
"L" 14+50	7.0 Rt.	M.H. 6	1				38.51 34.02
SR ₁₄₅ 0+75	11.3 Lt.	(7)			1		37.27 34.76
SR ₁₄₅ 0+75	11.3 Rt.	(8)			1		37.27 35.06
"L" 17+50	20.5 Lt.	(9)			1		36.63 34.42
"L" 17+50	20.5 Rt.	(10)				1	36.63 31.92
"L" 19+55	20.5 Rt.	(11)				1	35.23 28.81
"Q" 21+75	20.5 Rt.	(13)				1	33.72 25.43
"Q" 21+95	20.5 Lt.	(12)			1		33.58 29.37
"L" 0+93	10. Rt.	M.H. 10	1				52.85 45.92
"L" 4+00	10. Rt.	M.H. 11	1				44.18 36.88
"L" 6+80	15. Rt.	M.H. 12	1				42.89 28.53
"L" 12+56	11. Rt.	M.H. 15	1				37.39 32.70
"L" 17+64	5. Rt.	M.H. 13	1				36.97 31.99
"L" 19+82	2. Rt.	M.H. 16	1				35.54 29.16
TOTALS			9	2	9	3	

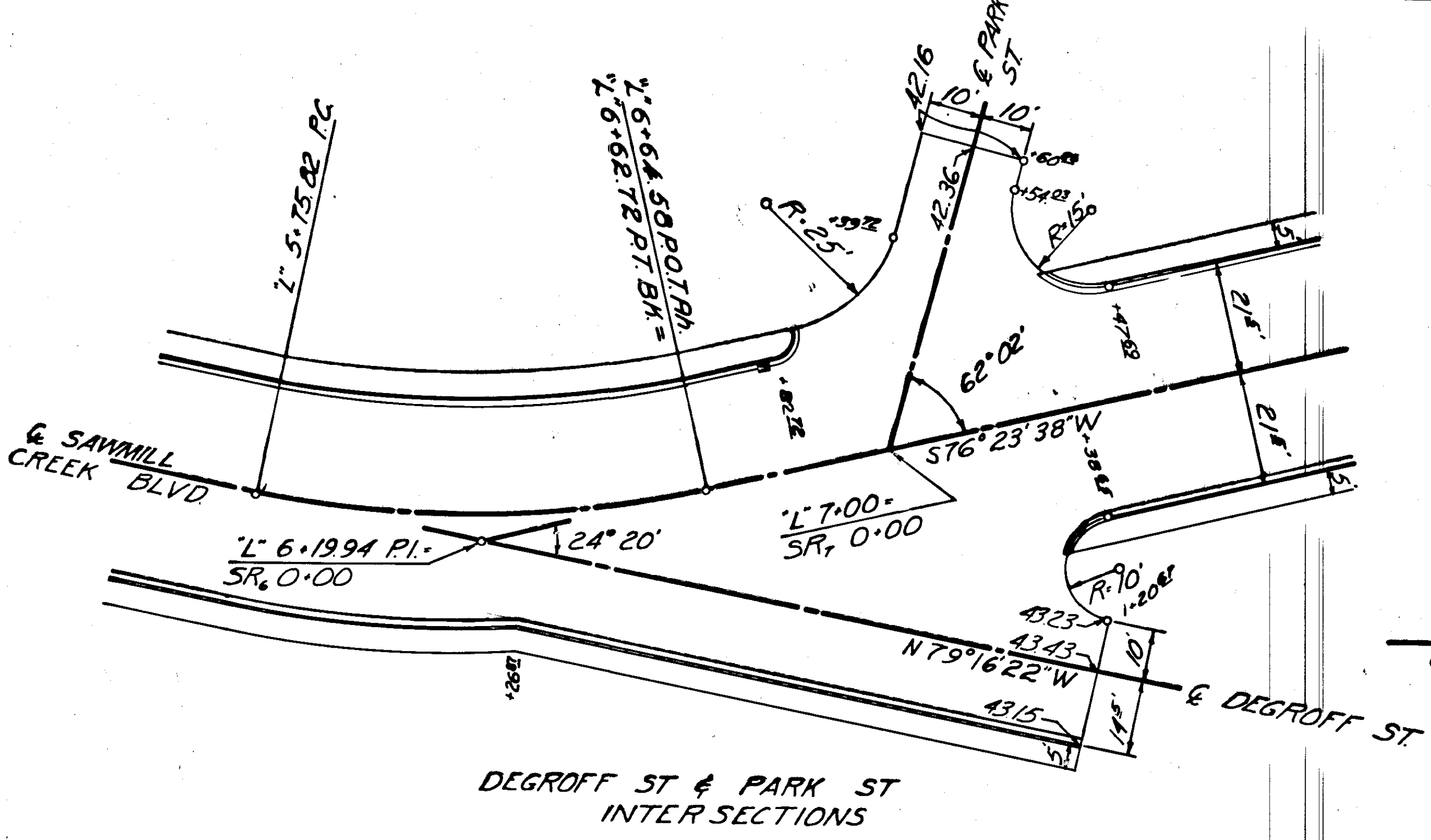
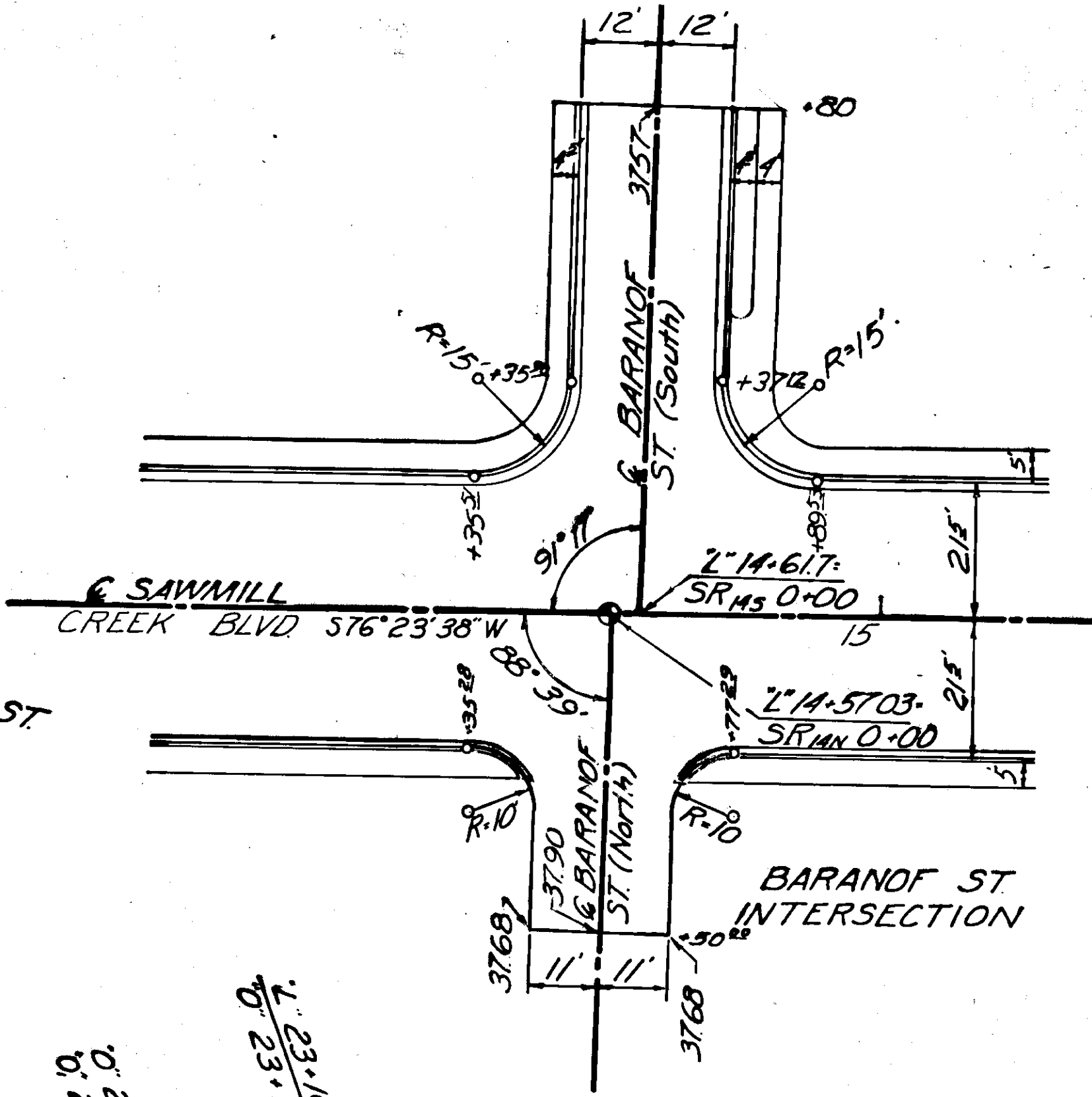
CURB CUT SUMMARY

STATION	TYPE	STATION	TYPE
"L" 1+90	Rt. II	"L" 10+69	Rt. II
"L" 3+05	Lt. II	"L" 11+36	Lt. II
"L" 3+57	Rt. II	"L" 11+36	Rt. II
"L" 4+10	Rt. II	"L" 11+84	Rt. II
"L" 4+87	Rt. II	"L" 11+89	Lt. II
"L" 5+04	Lt. II	"L" 12+45	Rt. II
"L" 5+41	Rt. II	"L" 12+84	Lt. II
"L" 5+57	Lt. II	"L" 13+04	Lt. II
"L" 5+71	Lt. II	"L" 13+20	Rt. I
"L" 5+97	Rt. II	"L" 15+36	Rt. I
"L" 6+38	Lt. II	"L" 16+40	Lt. I
SR ₆ 0+30	Rt. II	"L" 16+43	Rt. II
SR ₆ 0+45	Rt. II	"L" 16+91	Rt. II
SR ₆ 0+85	Rt. II	"L" 18+57	Lt. II
"L" 8+00	Lt. II	"L" 18+67	Rt. II
"L" 8+62	Lt. II	"L" 19+10	Rt. II
"L" 9+30	Rt. II	"L" 19+95	Lt. I
"L" 9+61	Rt. II	"L" 20+65	Lt. II
"L" 9+80	Lt. II	"L" 21+13	Lt. II
"L" 10+38	Lt. II	"L" 21+25	Rt. II

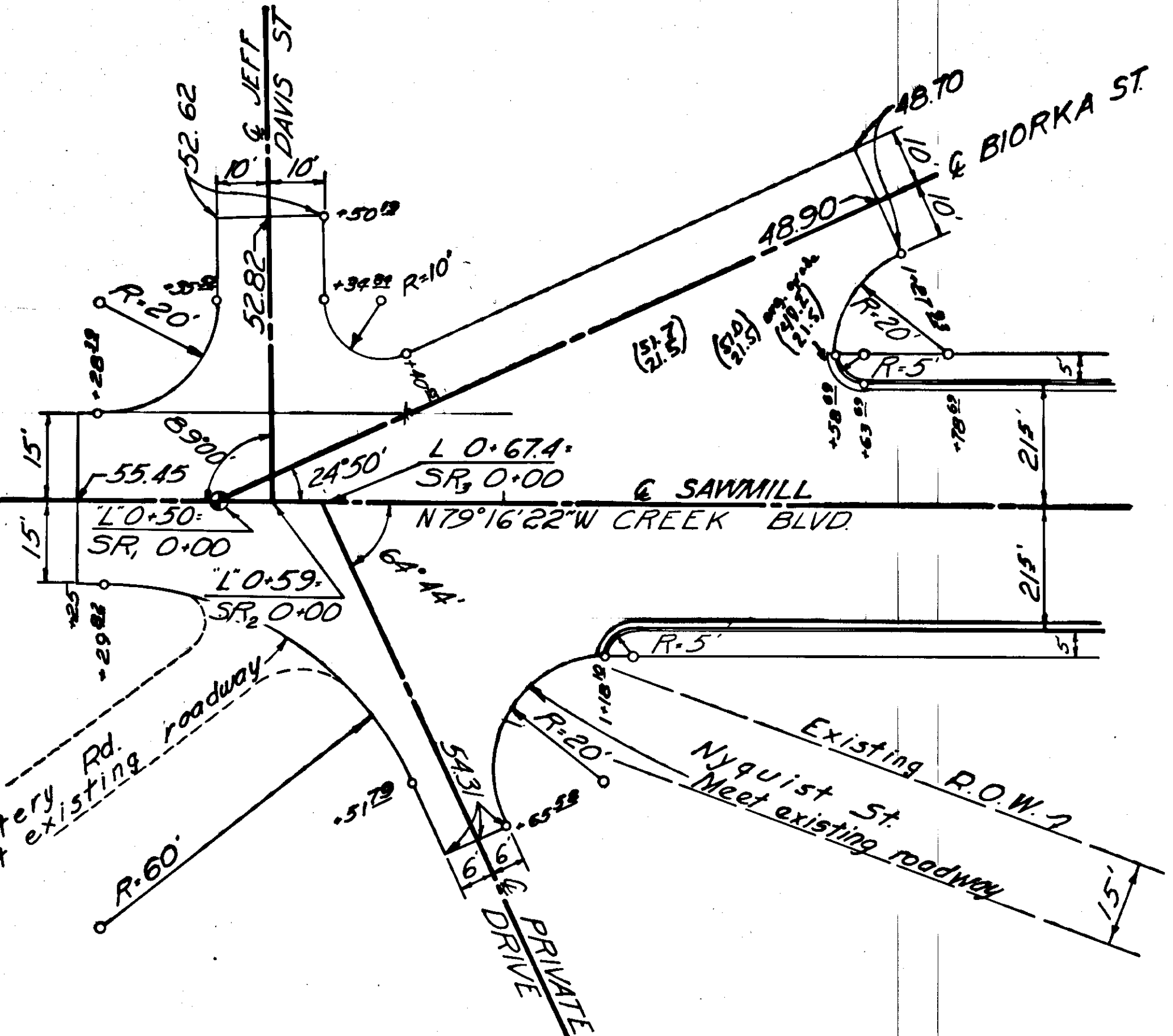
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933 (5)	1966	23	40

"As Built"

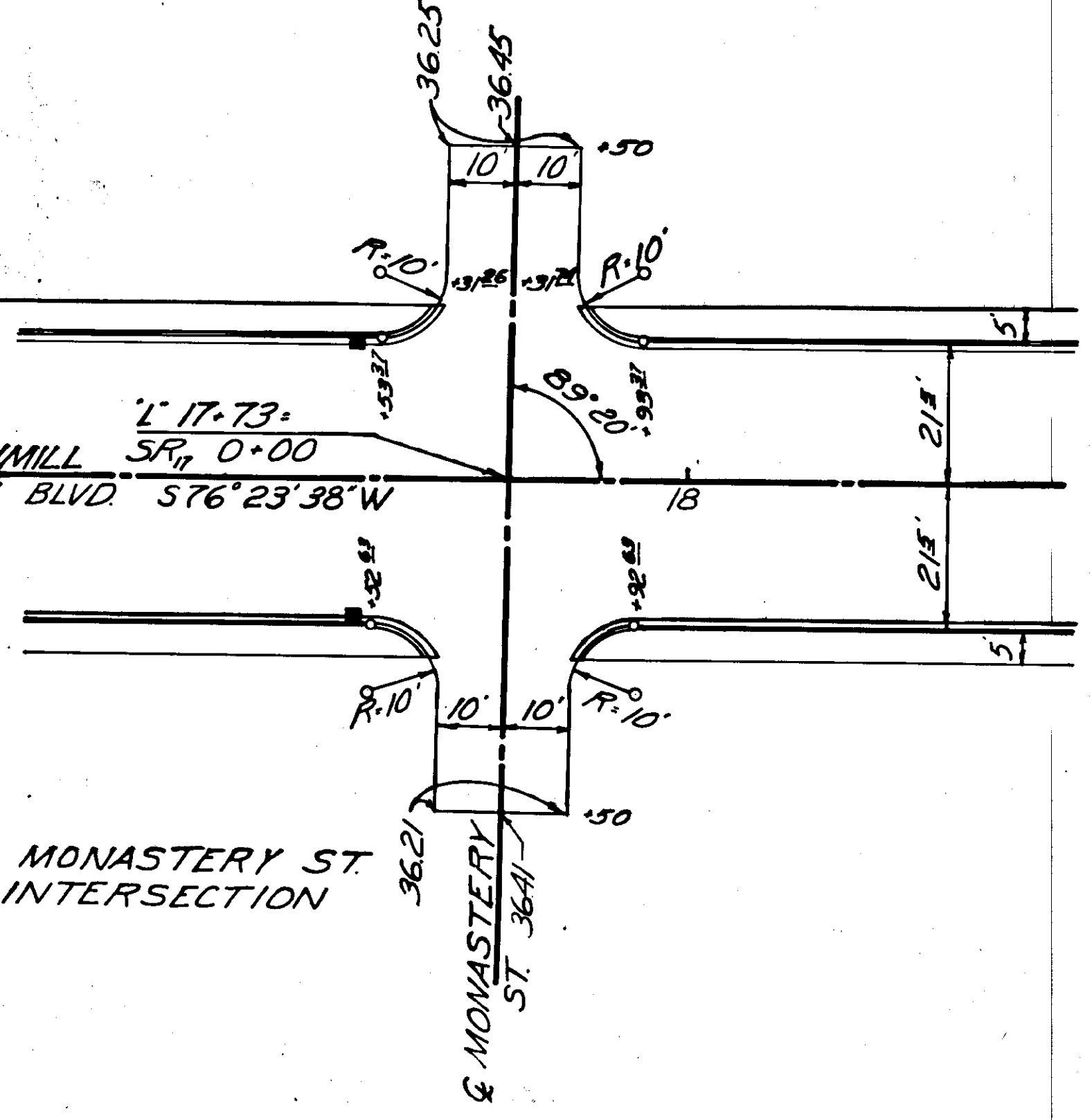
INTERSECTION DETAILS



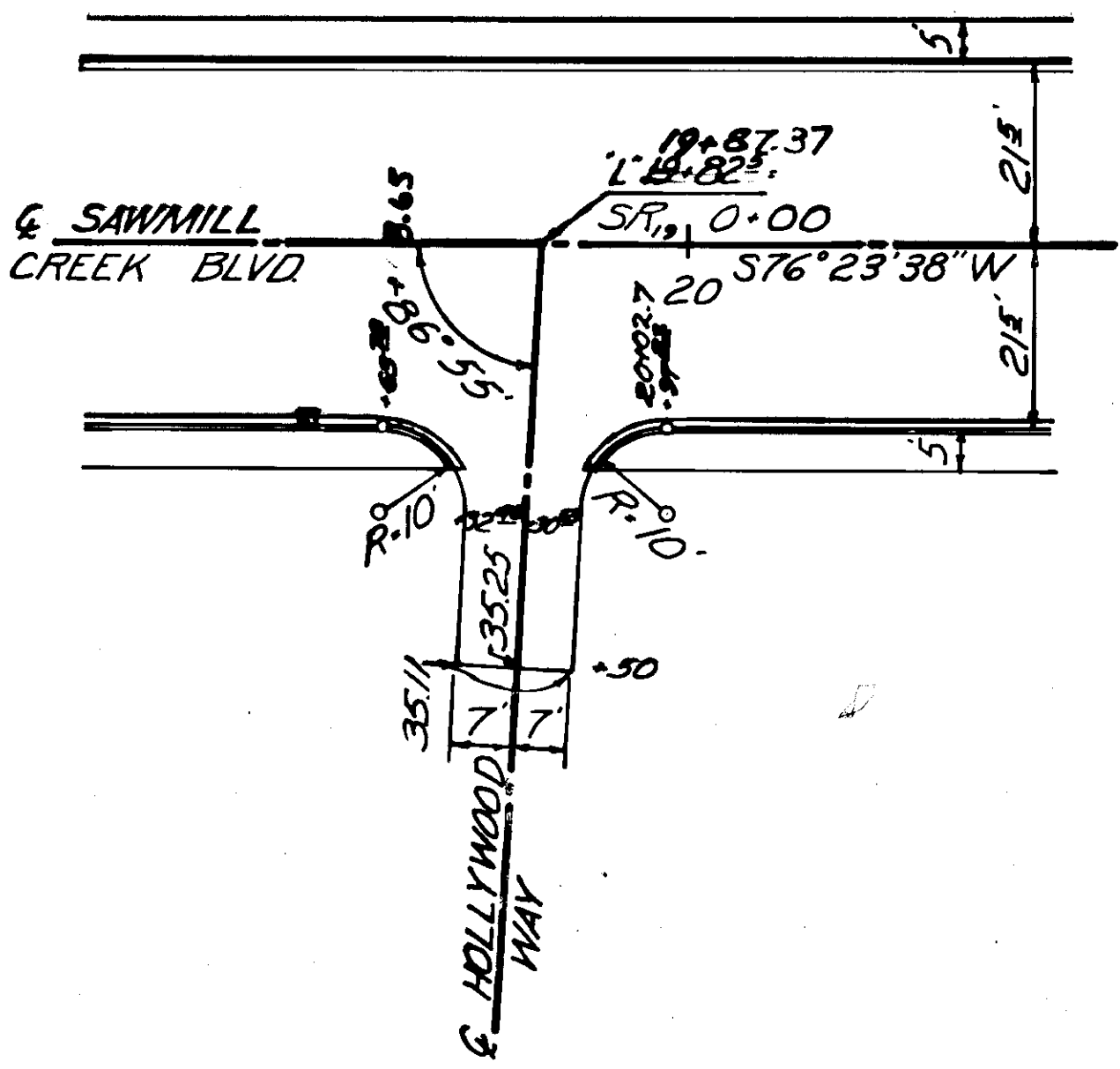
DEGROFF ST & PARK ST INTERSECTIONS



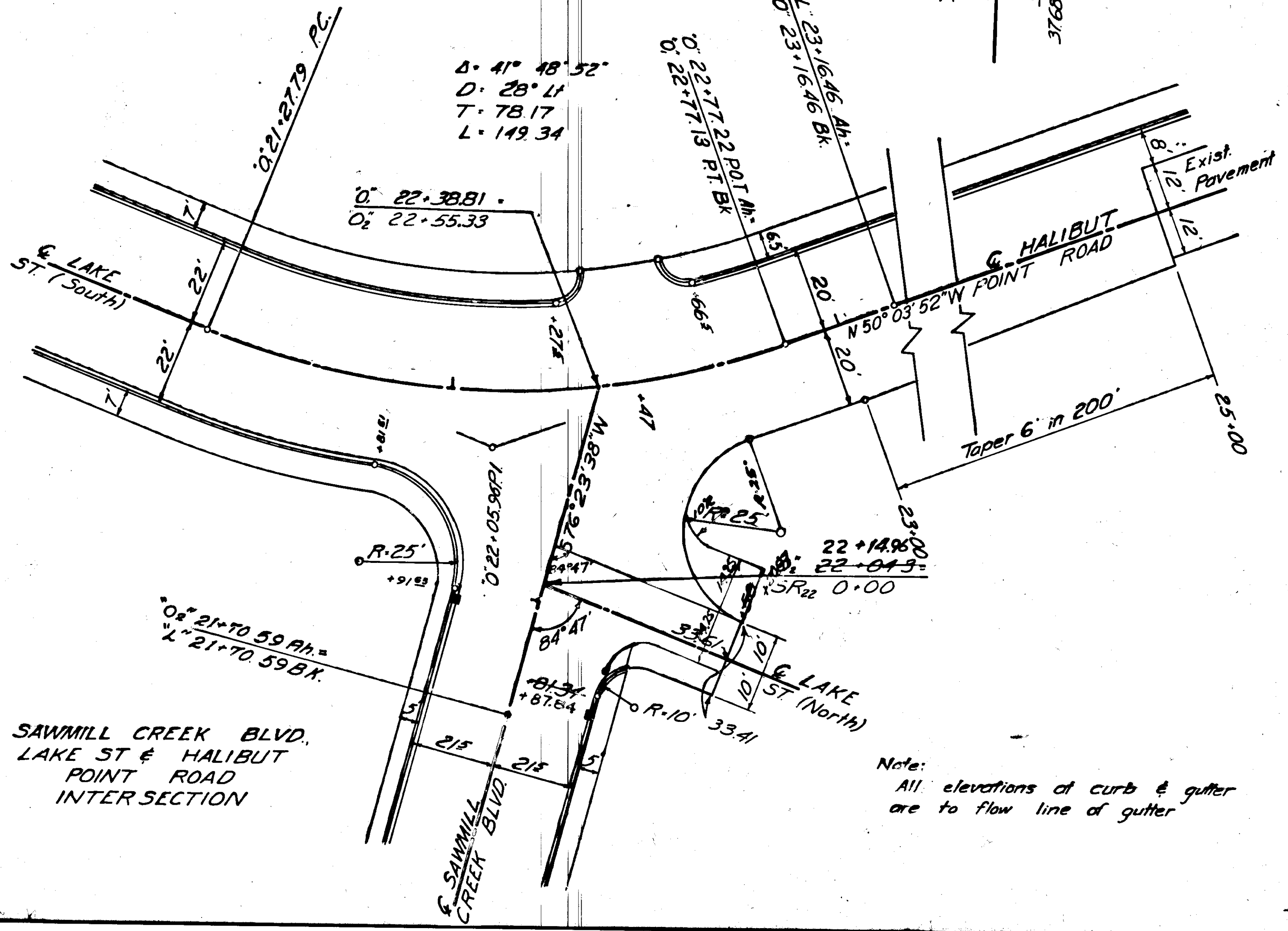
BOP INTERSECTIONS



MONASTERY ST INTERSECTION



HOLLYWOOD WAY INTERSECTION

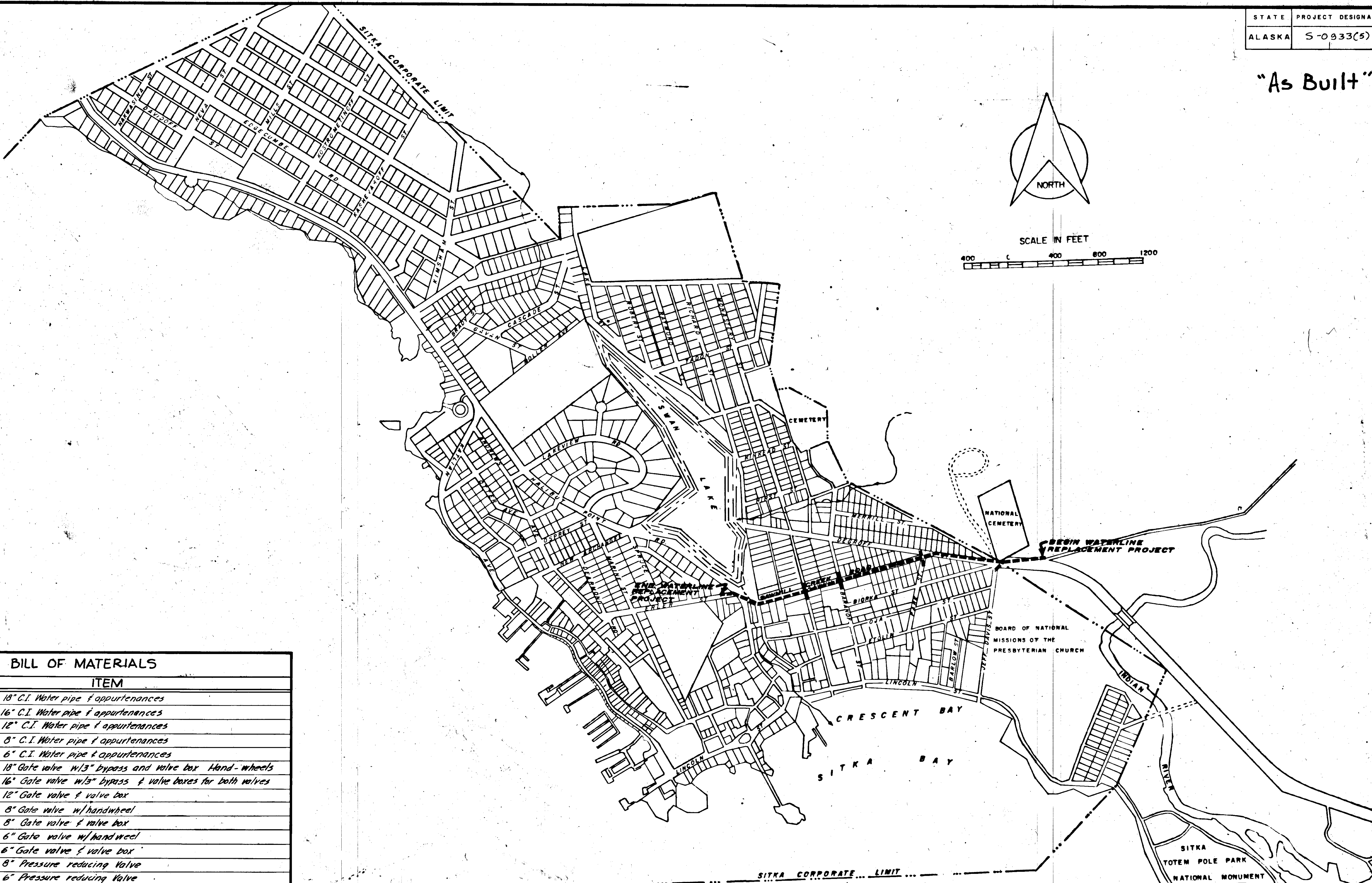


SAWMILL CREEK BLVD, LAKE ST & HALIBUT POINT ROAD INTERSECTION

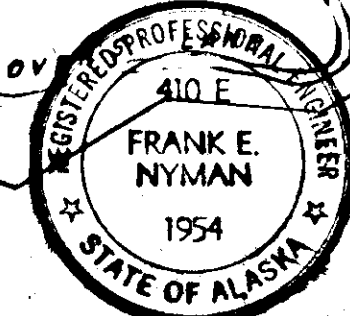
Note:
All elevations of curb & gutter are to flow line of gutter

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933(5)	1966	24	40

"As Built"



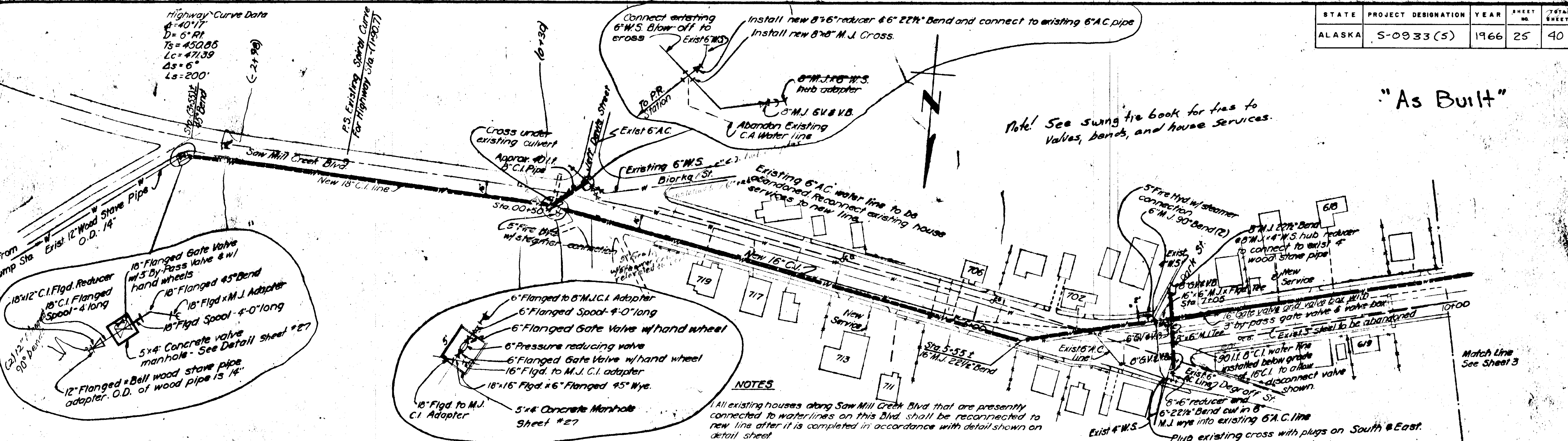
BILL OF MATERIALS	
AN.	ITEM
10	18" C.I. Water pipe & appurtenances
10	16" C.I. Water pipe & appurtenances
16	12" C.I. Water pipe & appurtenances
20	8" C.I. Water pipe & appurtenances
30	6" C.I. Water pipe & appurtenances
	18" Gate valve w/3" bypass and valve box Hand-wheels
	16" Gate valve w/3" bypass & valve boxes for both valves
	12" Gate valve & valve box
2	8" Gate valve w/handwheel
4	8" Gate valve & valve box
2	6" Gate valve w/handwheel
2	6" Gate valve & valve box
4	8" Pressure reducing Valve
	6" Pressure reducing Valve
5	5" "C" Base hydrant & appurtenances
	Encase sewer line w/concrete
	Reinforced concrete valve manhole or reducing station pit



CITY OF SITKA, ALASKA
 WATERLINE REPLACEMENT
 VICINITY MAP
 TRYCK, NYMAN & HAYES
 CONSULTING ENGINEERS
 ANCHORAGE, ALASKA

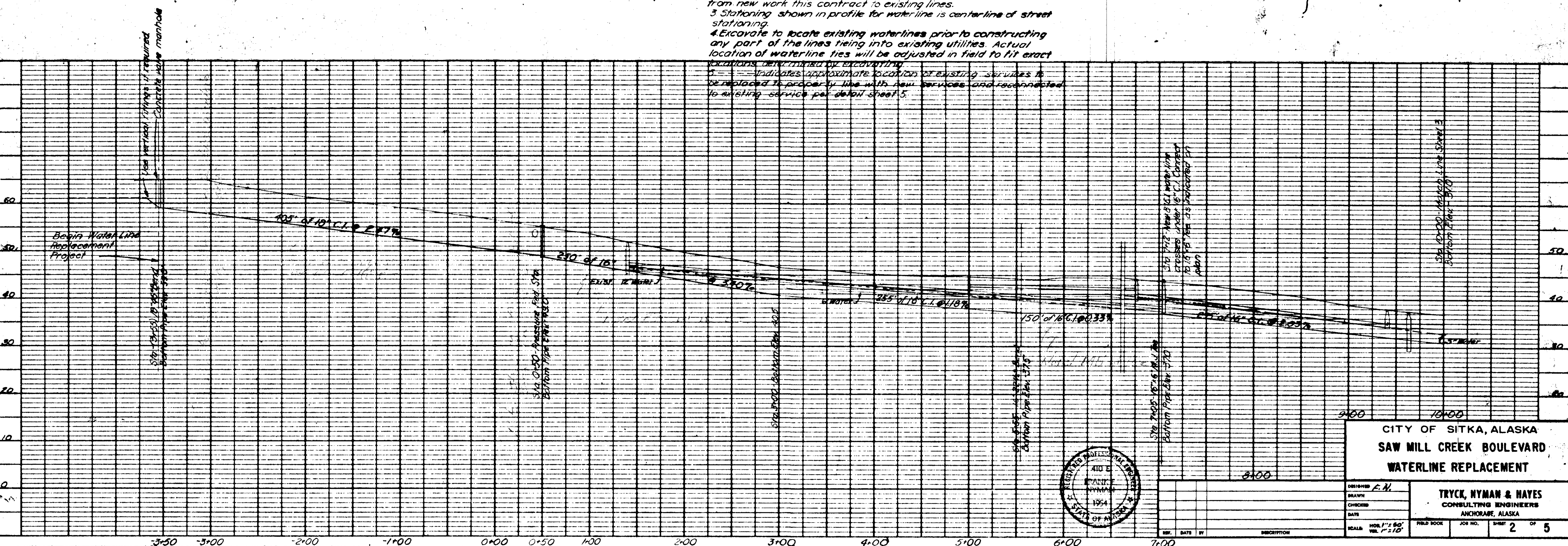
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933(5)	1966	25	40

"As Built"



NOTES

1. All existing houses along Saw Mill Creek Blvd. that are presently connected to waterlines on this Blvd. shall be reconnected to new line after it is completed in accordance with detail shown on detail sheet.
2. Use vertical fittings as required to accomplish grade change from new work this contract to existing lines.
3. Stationing shown in profile for waterline is centerline of street stationing.
4. Excavate to locate existing waterlines prior to constructing any part of the lines tying into existing utilities. Actual location of waterline ties will be adjusted in field to fit exact locations determined by excavating.
5. Indicates approximate location of existing services to be replaced to properly line with new services and reconnected to existing services per detail sheet 5.



CITY OF SITKA, ALASKA
SAW MILL CREEK BOULEVARD
WATERLINE REPLACEMENT

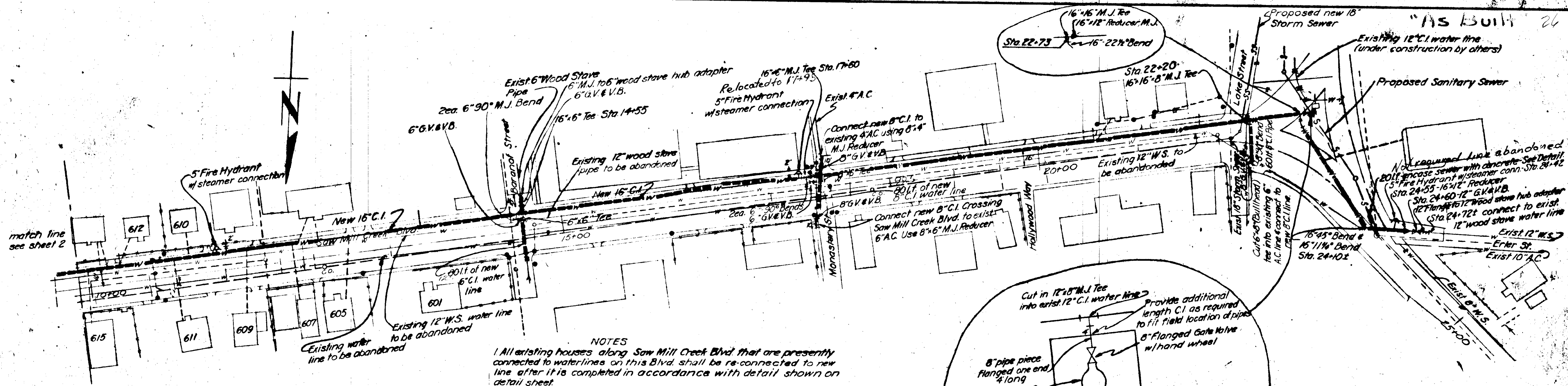
DESIGNED: F.H.
DRAWN: F.H.
CHECKED: F.H.
DATE: 1964
SCALE: HORIZ. 1"=80'
VERT. 1"=10'

TRYCK, NYMAN & HAYES
CONSULTING ENGINEERS
ANCHORAGE, ALASKA

FILE NO. JOB NO. SHEET 2 OF 5

FILE NO.

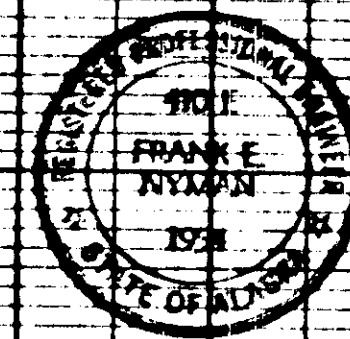
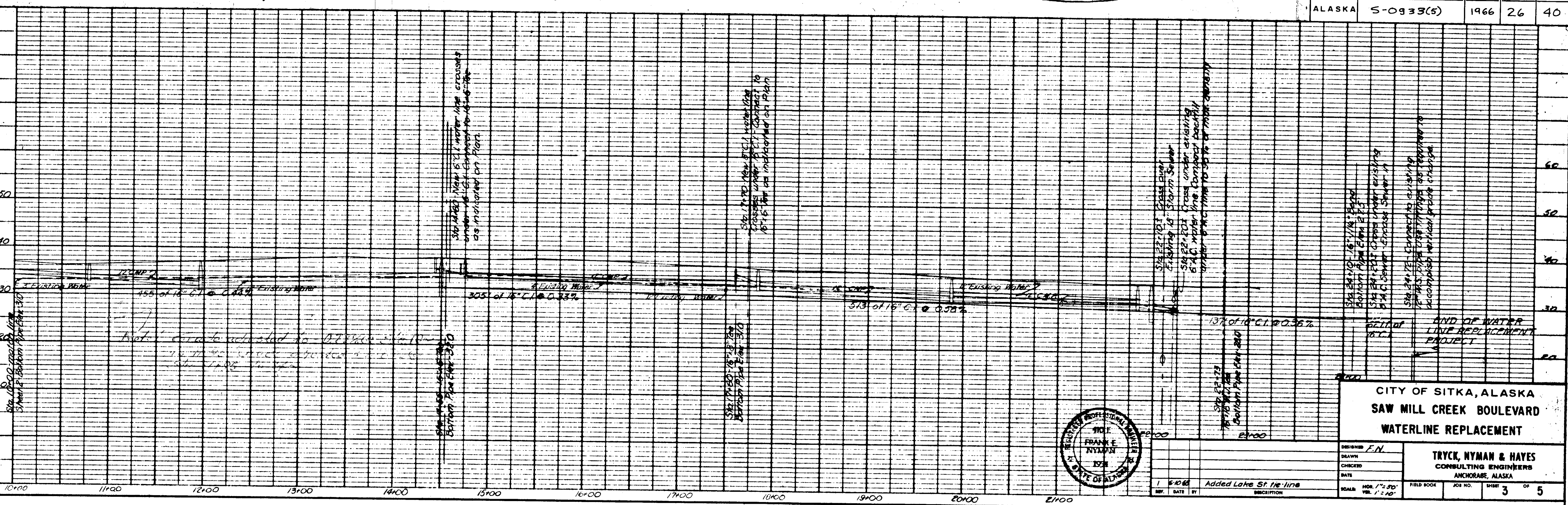
J-5



Note! See Swing tie book for ties + Valves, bends, + house services

- NOTES
1. All existing houses along Saw Mill Creek Blvd. that are presently connected to waterlines on this Blvd. shall be re-connected to new line after it is completed in accordance with detail shown on detail sheet.
 2. Use vertical fittings as required to accomplish grade change from new work this contract to existing lines.
 3. Waterline stationing is centerline of street stationing except beyond Sta. 21+50 where stationing follows waterline.
 4. Excavate to locate existing waterlines prior to constructing any part of the lines tying into existing utilities. Actual location of waterline ties will be adjusted in field to fit exact locations determined by excavating.
 5. --- Indicates approximate location of existing services to be replaced to properly line with new services and re-connected to existing service per detail sheet 5.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933(5)	1966	26	40



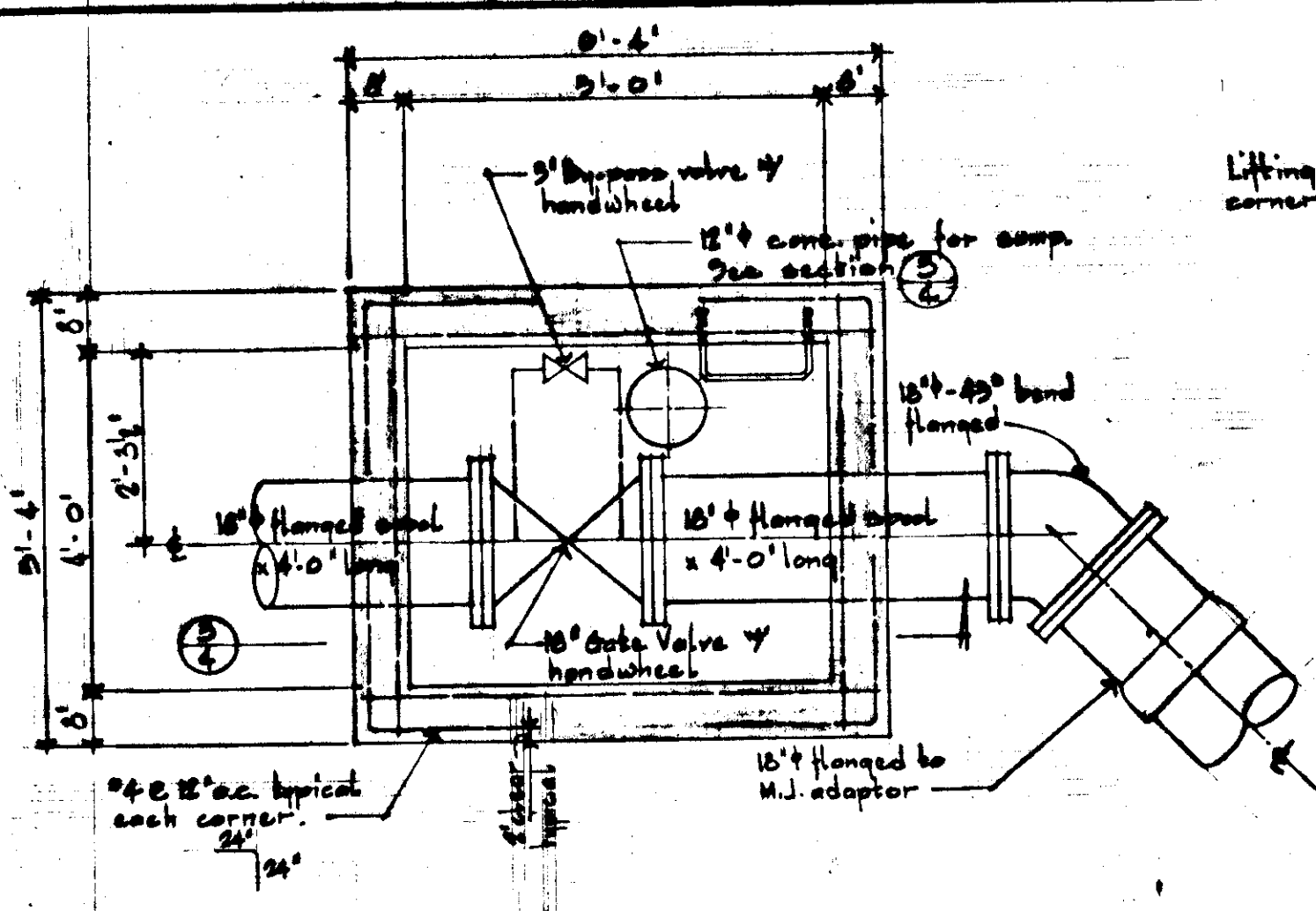
CITY OF SITKA, ALASKA
SAW MILL CREEK BOULEVARD
WATERLINE REPLACEMENT

DESIGNED F.N.
DRAWN
CHECKED
DATE

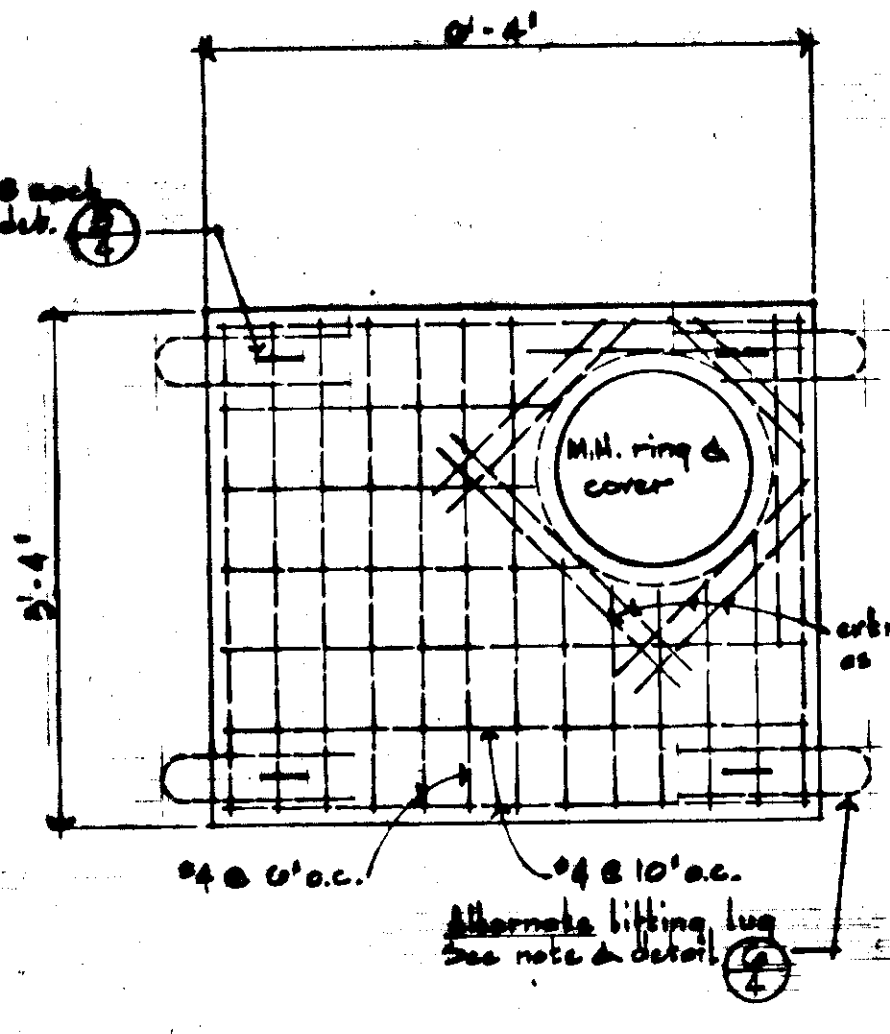
TRYCK, NYMAN & HAYES
CONSULTING ENGINEERS
ANCHORAGE, ALASKA

SCALE: HOR. 1"=50'
VER. 1"=10'

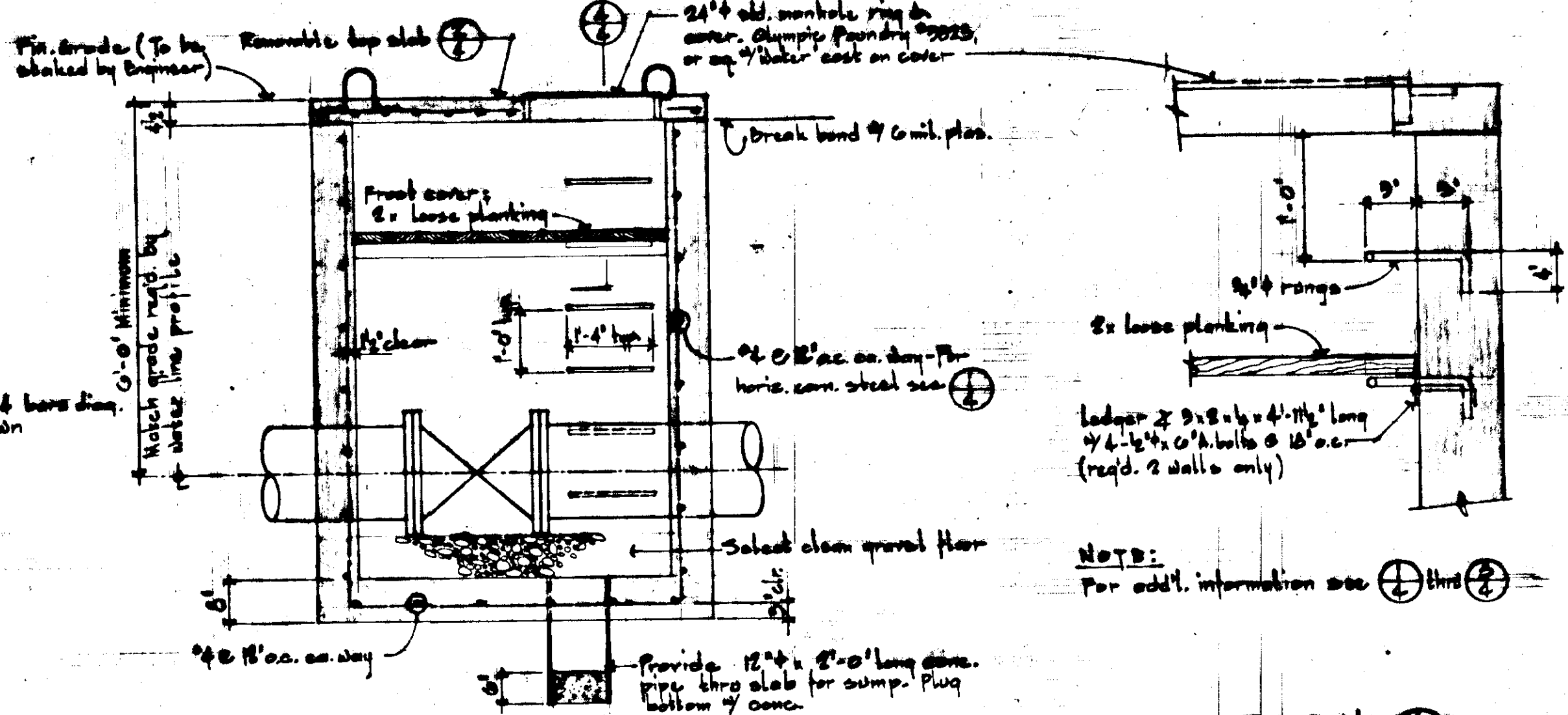
FIELD BOOK JOB NO. SHEET 3 OF 5



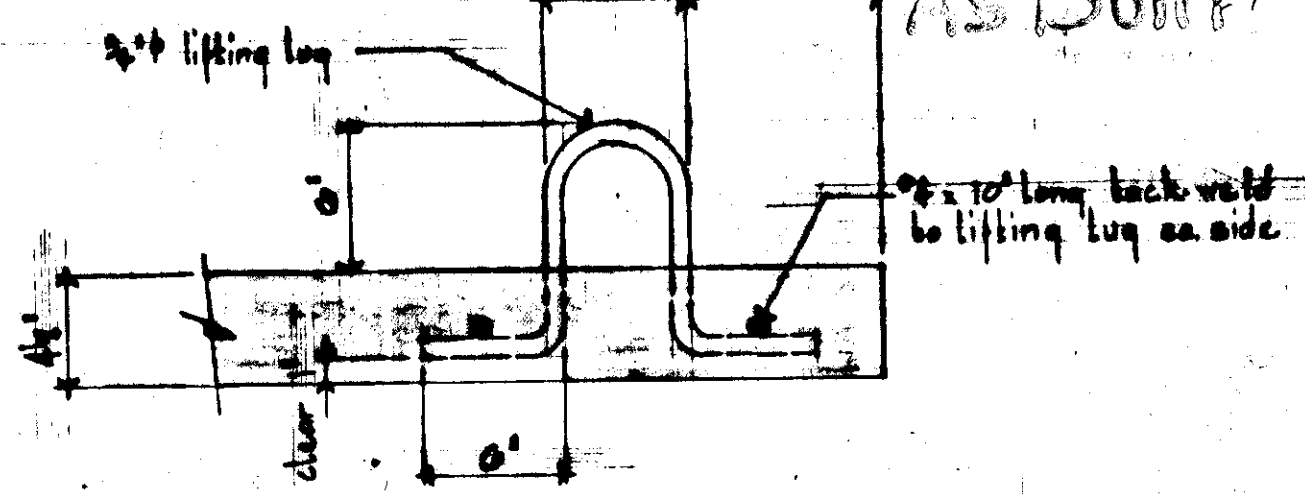
CONCRETE VALVE MANHOLE PLAN 1
1/2" = 1'-0"



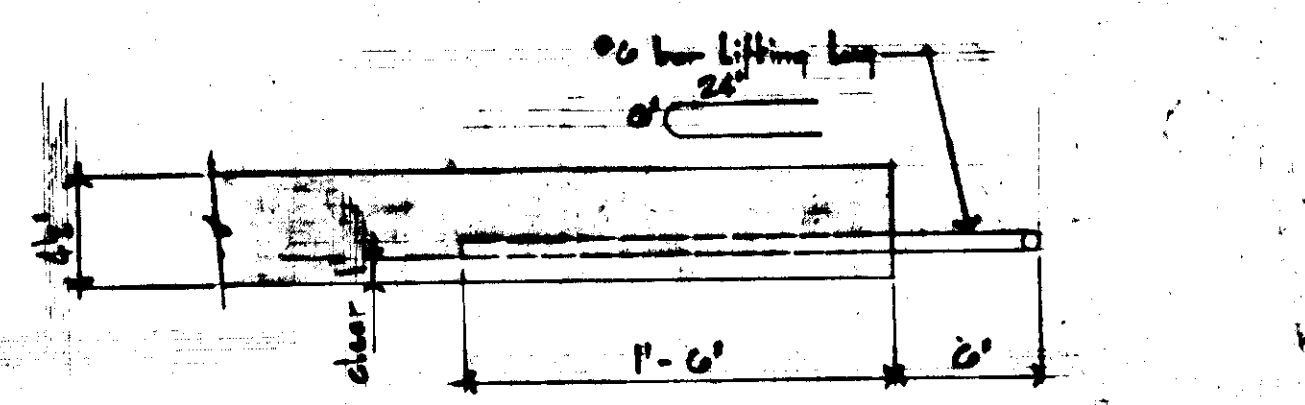
TOP SLAB PLAN 2
1/2" = 1'-0"



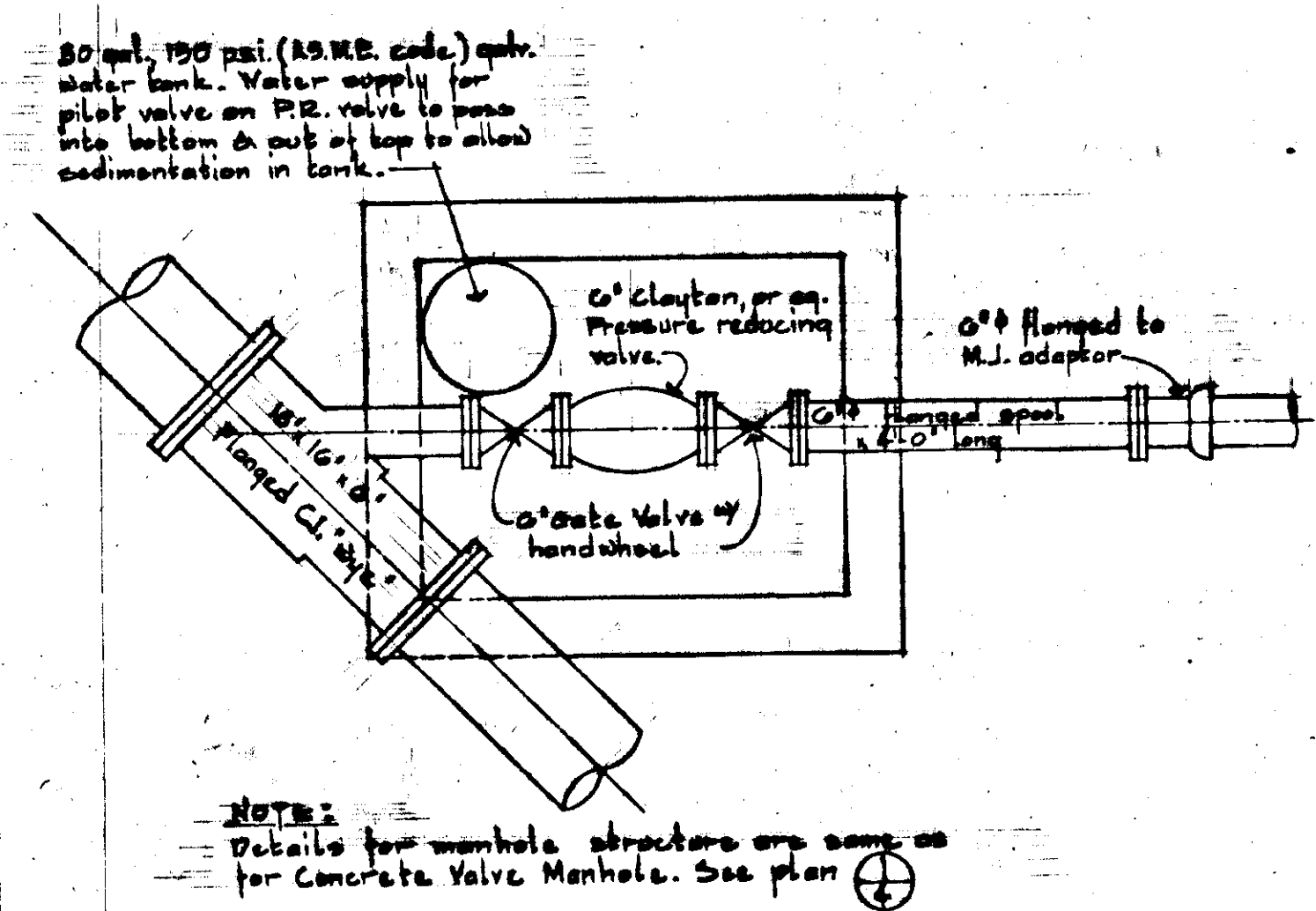
SECTION 3
1/2" = 1'-0"



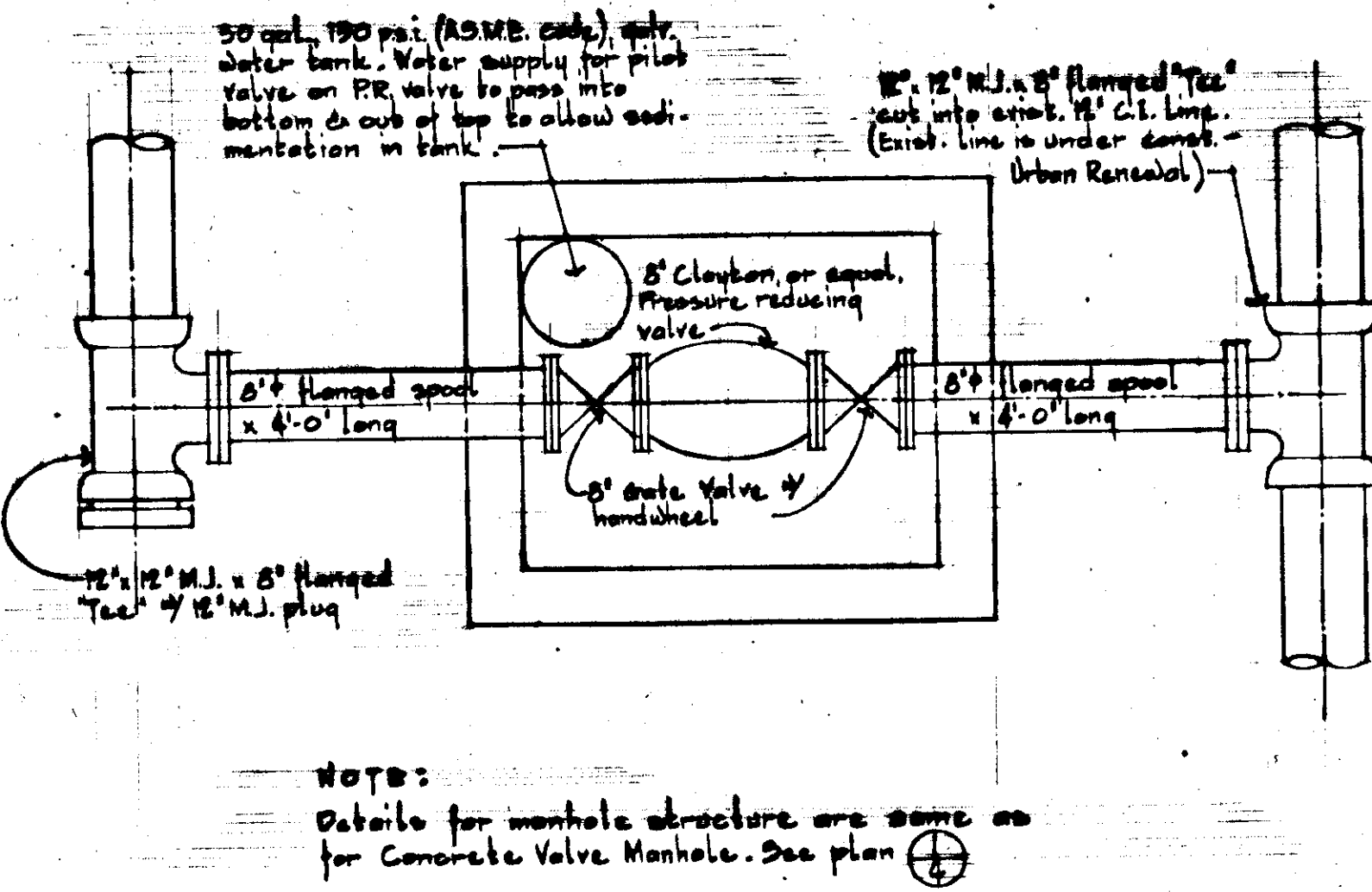
LIFTING LUG DETAIL 4
1/2" = 1'-0"



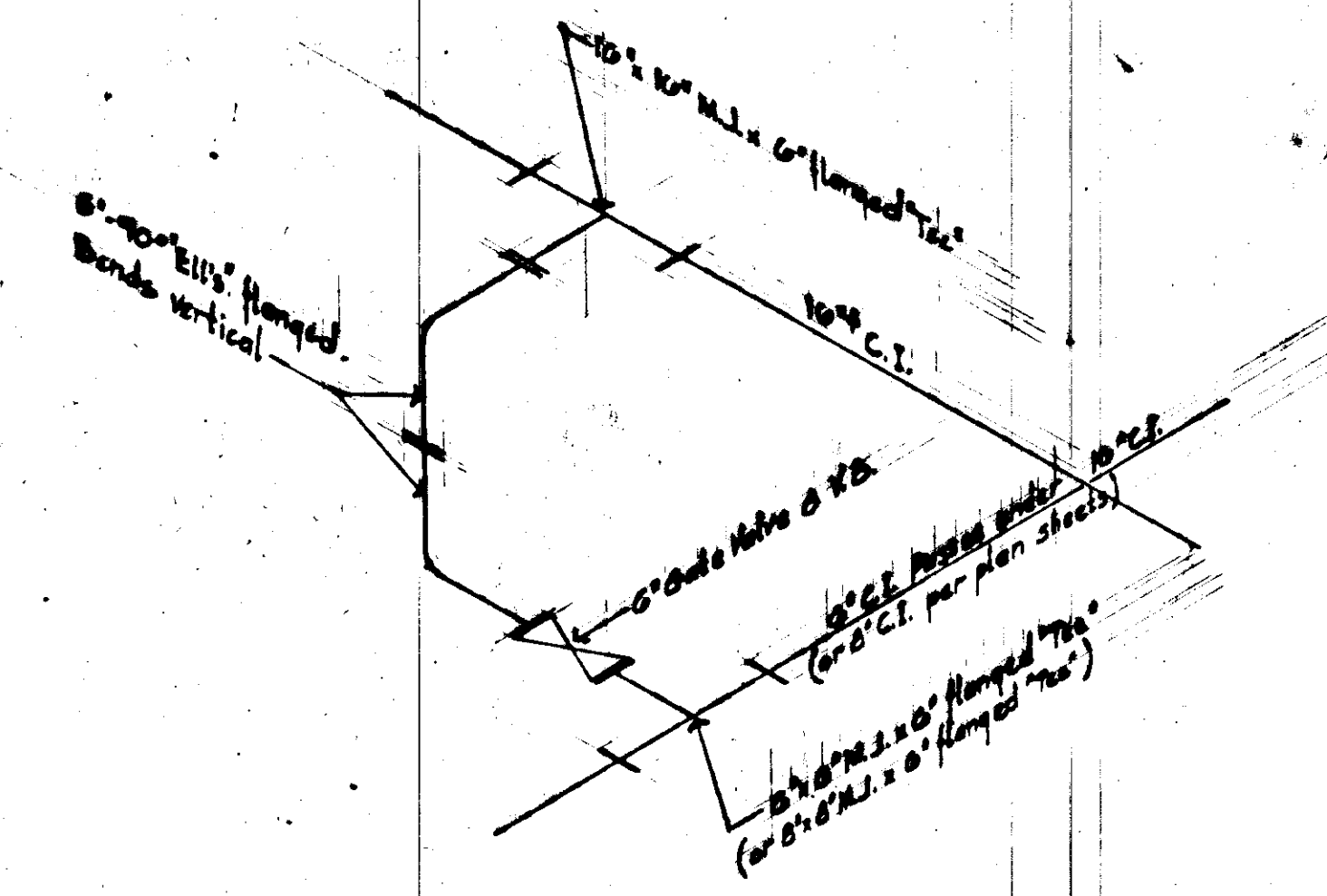
ALTERNATE LIFTING LUG DETAIL 5
1/2" = 1'-0"



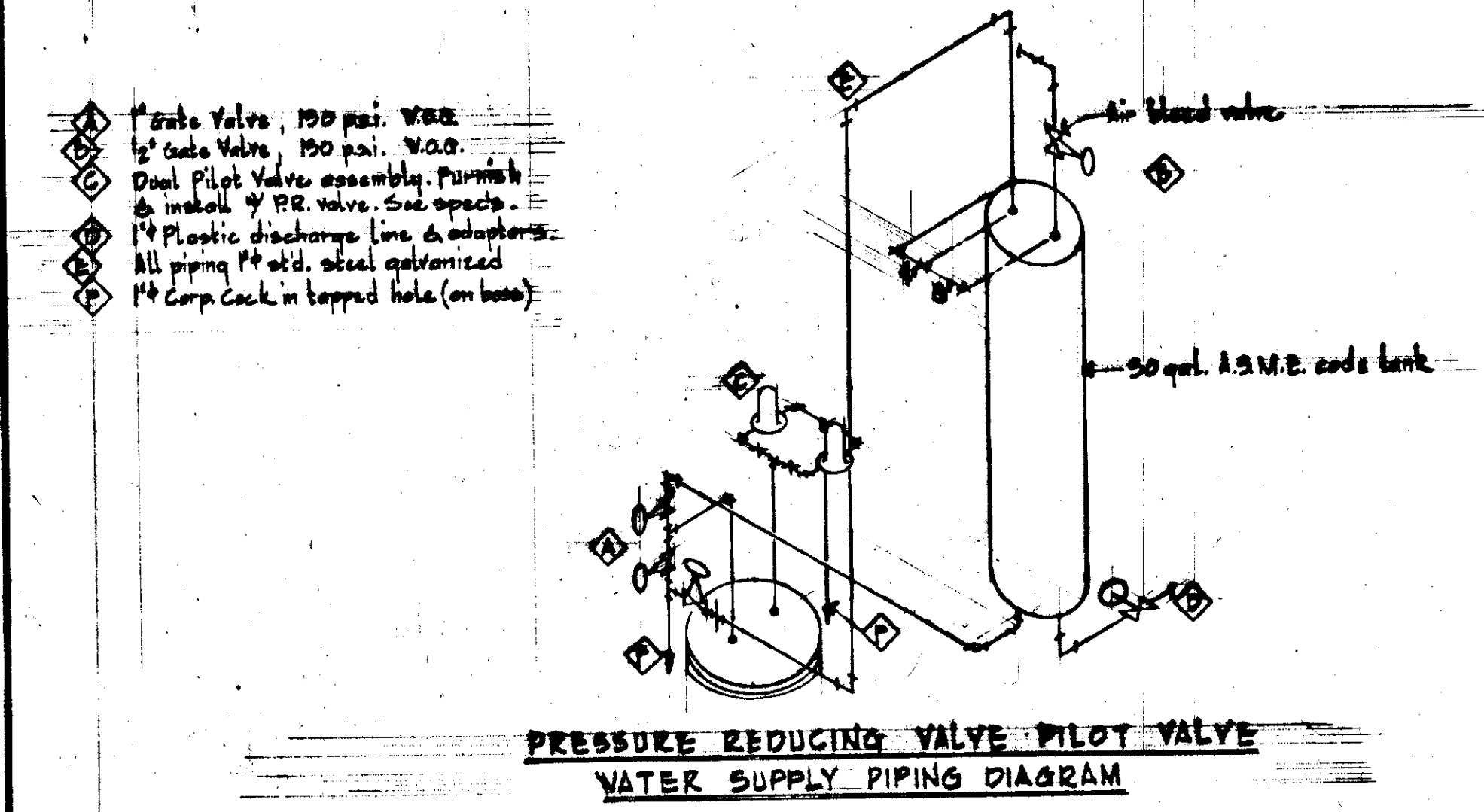
PRESSURE REDUCING VALVE STATION PLAN 7
1/2" = 1'-0"



PRESSURE REDUCING VALVE STATION PLAN 8
1/2" = 1'-0"



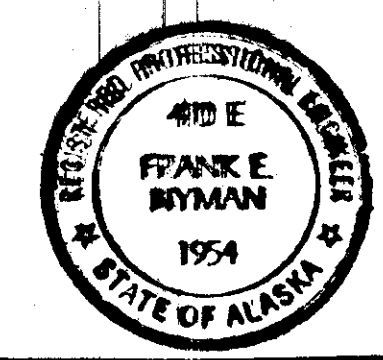
DETAIL FOR CROSSTIE TO 10" C.I. 9
1/2" = 1'-0"



SCHEMATIC SKETCH 10
No scale

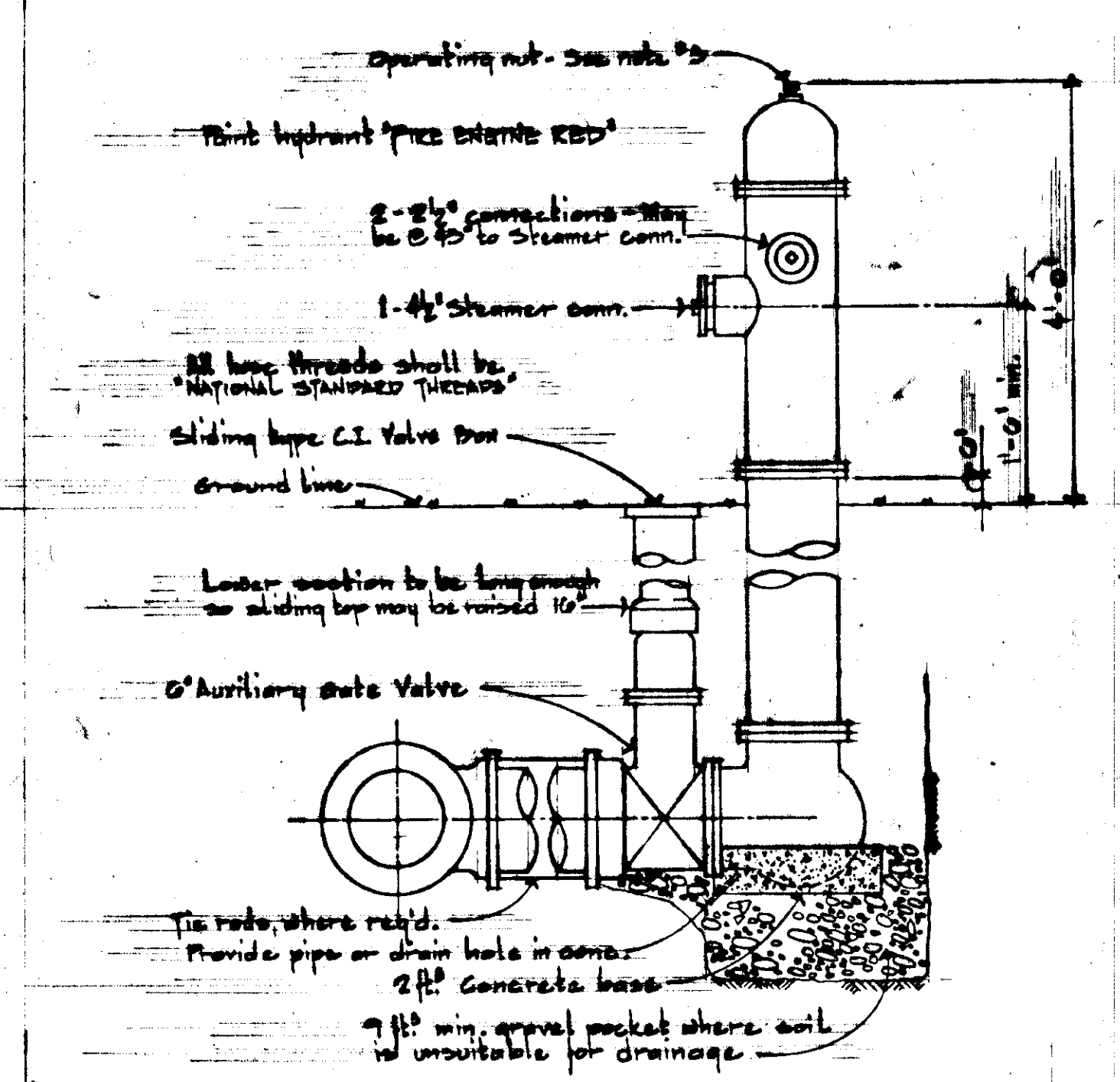
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHEETS
ALASKA	S-0933(5)	1966	27	4

CITY OF SITKA, ALASKA
WATERLINE REPLACEMENT
DETAILS



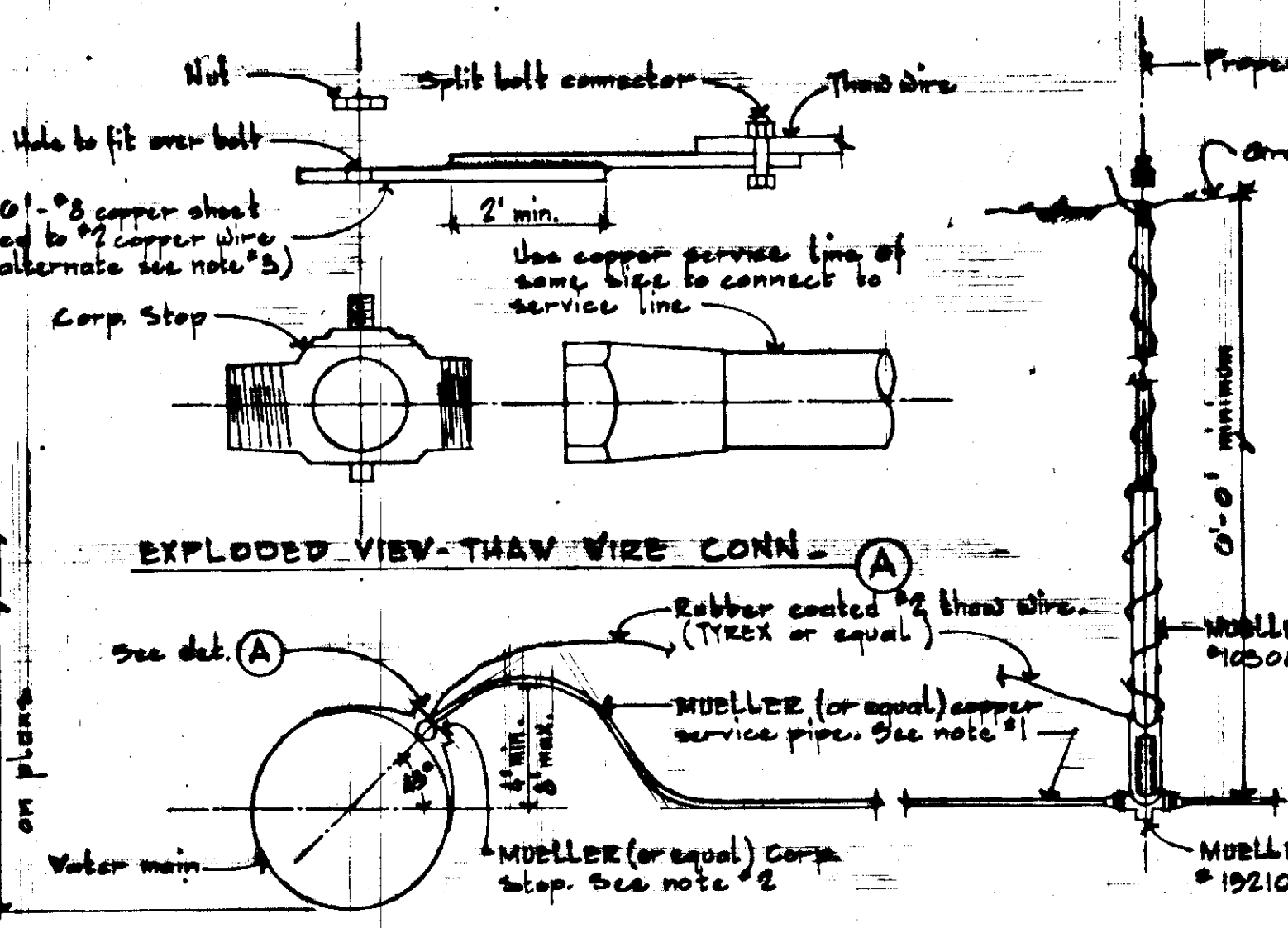
DESIGNED BY	FRANK E. NYMAN	CHECKED BY	J. CONOVER
DATE	1954	SCALE	AS NOTED
FIELD BOOK	1078	SHEET	4 OF 5

FILE NO.



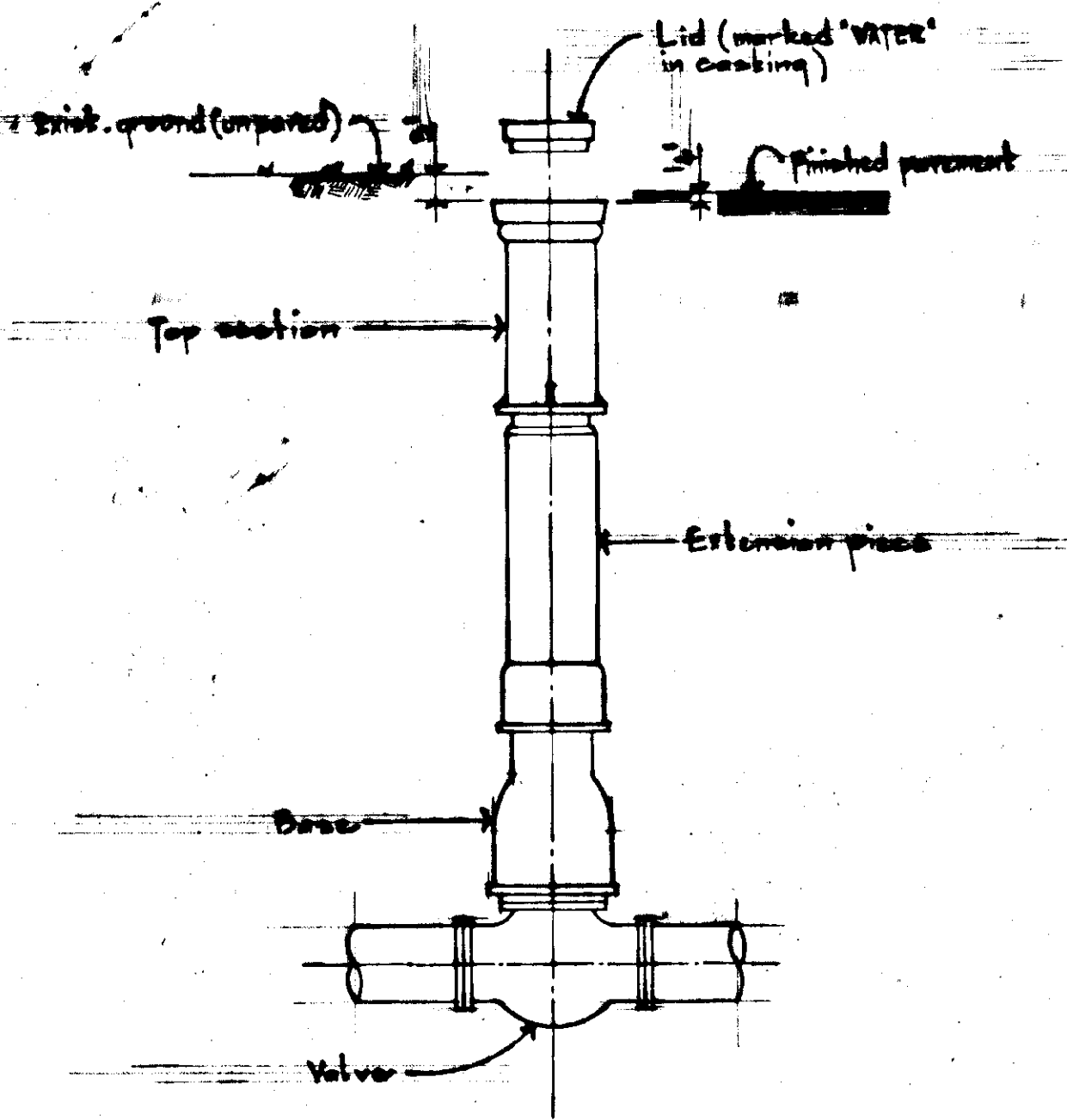
- NOTES:
1. Except as noted, flanged, mechanical joint, or bell & spigot fittings may be used to connect P.U. to main.
 2. Drain to be plugged & lead it below ground water.
 3. Slope hydrant leads if necessary to maintain 6" to 8" bury of hydrants.
 4. Notes about Valve Box apply to all Gate Valves & Valve Boxes on plans.
 5. Size of operating nut shall match exist. hydrants & shall operate counter-clockwise.
 6. Fire Hydrants shall conform to A.W.W.A. spec. C502 (latest issue), shall have 6" A.S.A. CL 125 std. flanges, & shall be equipped w/ 5" main valves.

TYPICAL 'L' BASE FIRE HYDRANT (1)
No scale



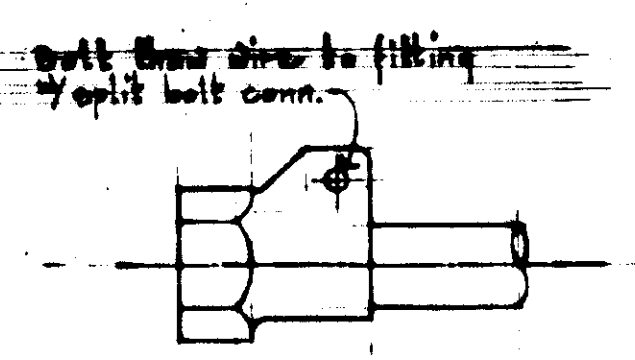
- NOTES:
1. With service pipe use appropriate MUeller (or equal) copper service fittings for new connections & connections to exist. service lines.
 2. a) Corp. stops:
1. For cast iron pipe; To 1" max. service use type # H-13000, & for 1 1/2" to 2" max. service, use type # 13025.
b) Service clamps:
1. On cast iron mains for service lines greater than 1", furnish & install MUeller (or equal), single strap I.P. thread service clamp (w/ neoprene gasket).
 3. Special cast fitting mfg'd. by Western Utilities - Seattle, may be substituted. See detail (3)

TYPICAL WATER SERVICE CONNECTION (4)
No scale

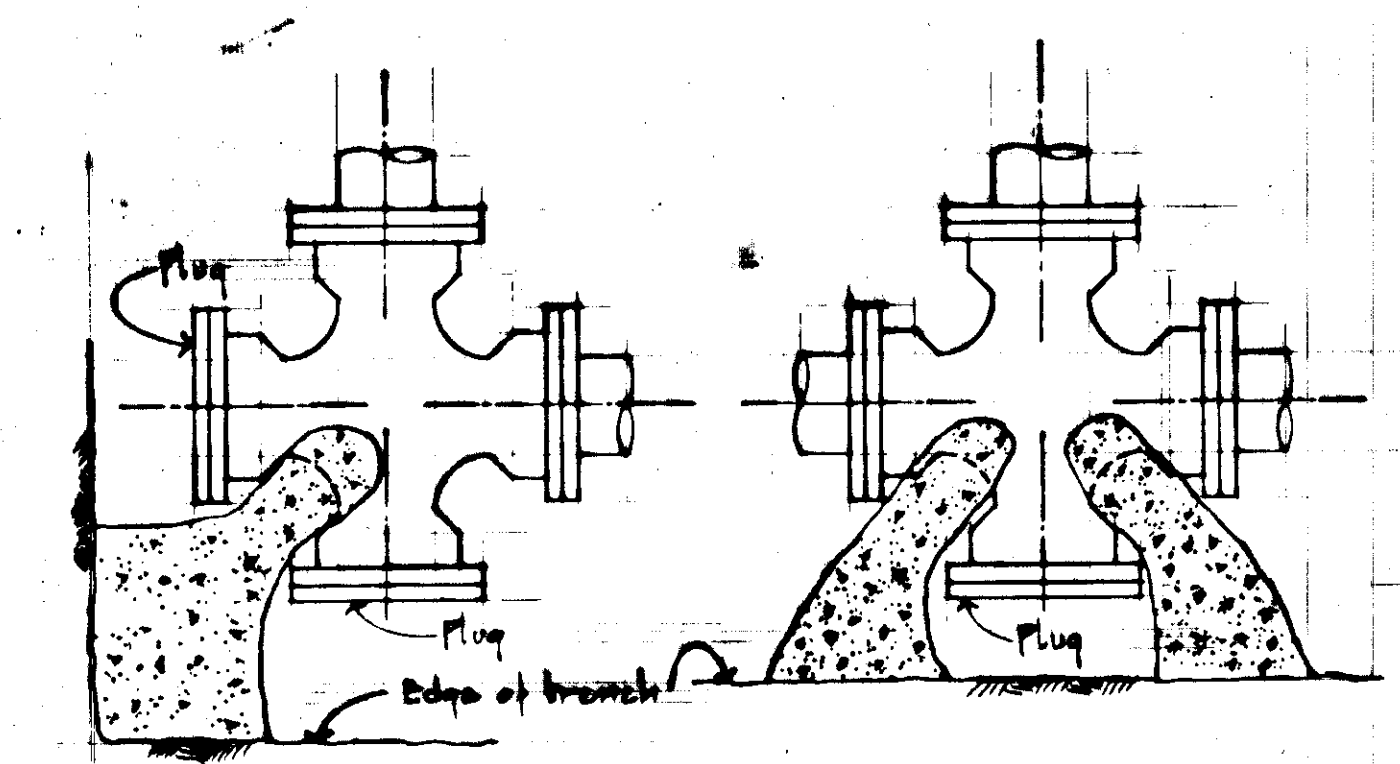


- NOTES:
1. Valve box lid to be MUeller H-10501 or equal.
 2. Valve box to be MUeller H-10504 or equal for 12" pipe & smaller, & MUeller H-10580 or equal for pipe larger than 12". Base of valve box for pipe larger than 12" to be MUeller No. 6 round or equal.
 3. Extension piece to be MUeller H-10575 or equal.
 4. See note #4, detail (3)

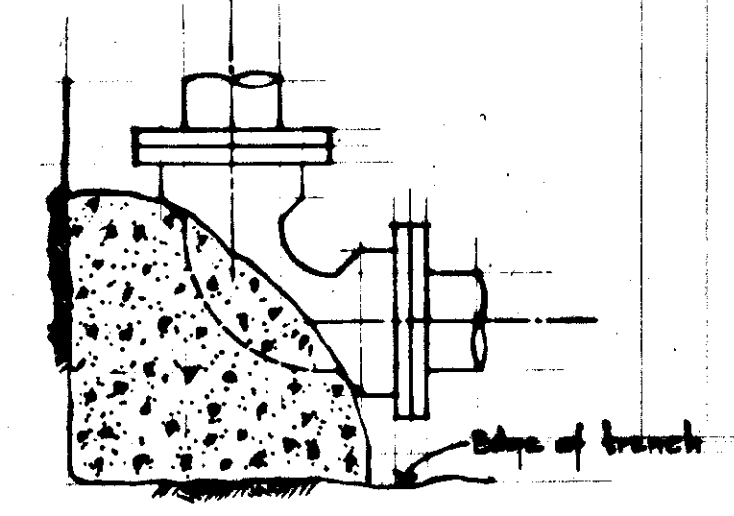
TYPICAL VALVE BOX DETAIL (2)
No scale



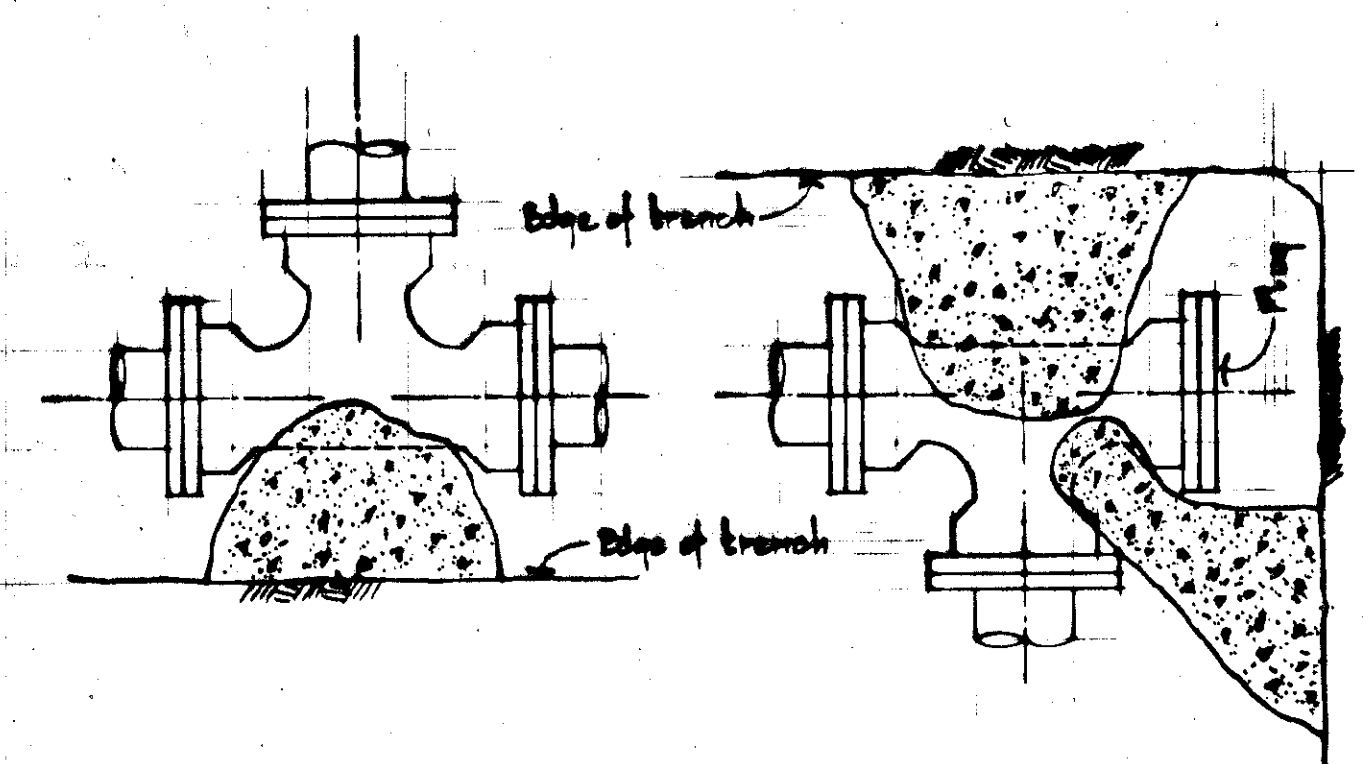
ALT. THAW WIRE CONN. (5)
No scale



TYPICAL CROSS TYPICAL CROSS



TYPICAL ELBOW

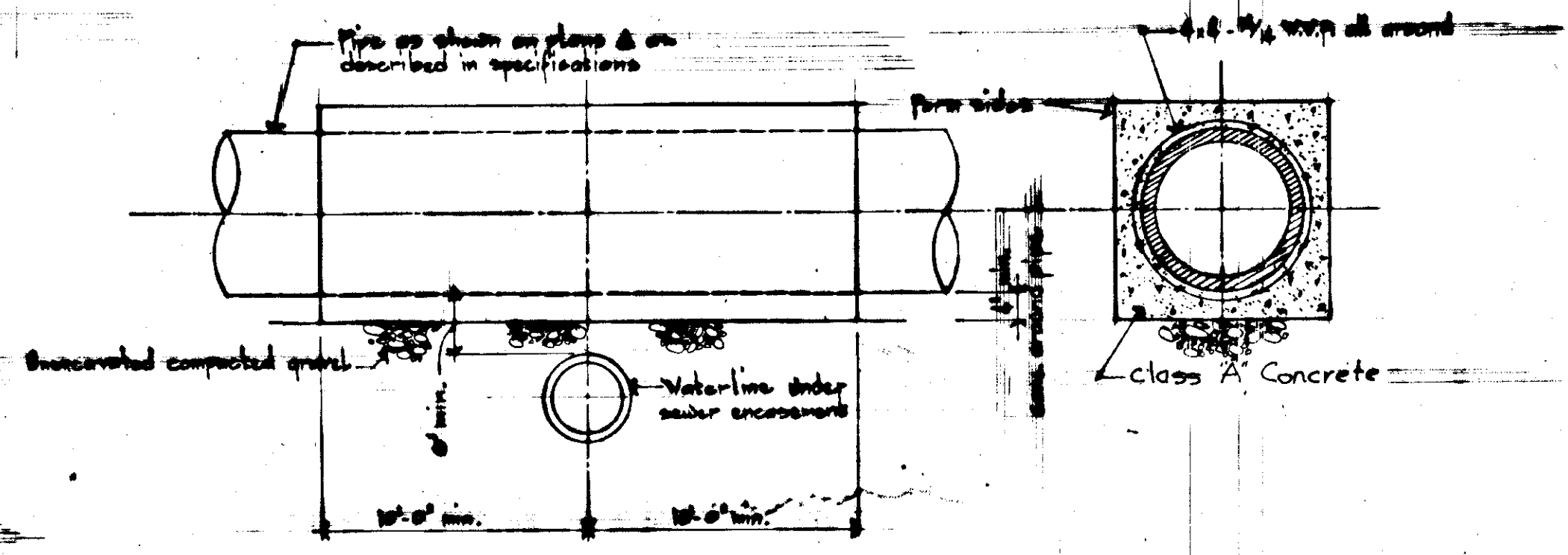


TYPICAL 'TEE' TYPICAL 'TEE'

Pipe Size	Min. Base Area
6"	2.0 sq. ft.
8"	2.5 sq. ft.
10"	3.0 sq. ft.
12"	3.5 sq. ft.
14"	4.0 sq. ft.
16"	4.5 sq. ft.

- NOTES:
1. All thrust blocks to be class "A" concrete.
 2. Cost of thrust blocks to be included in unit bid price for pipe.

TYPICAL THRUST BLOCK DETAILS (3)
No scale



TYPICAL SEWER ENCASEMENT DETAILS (6)
No scale

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	5-0933(5)	1966	28	40

CITY OF SITKA, ALASKA
WATERLINE REPLACEMENT
DETAILS



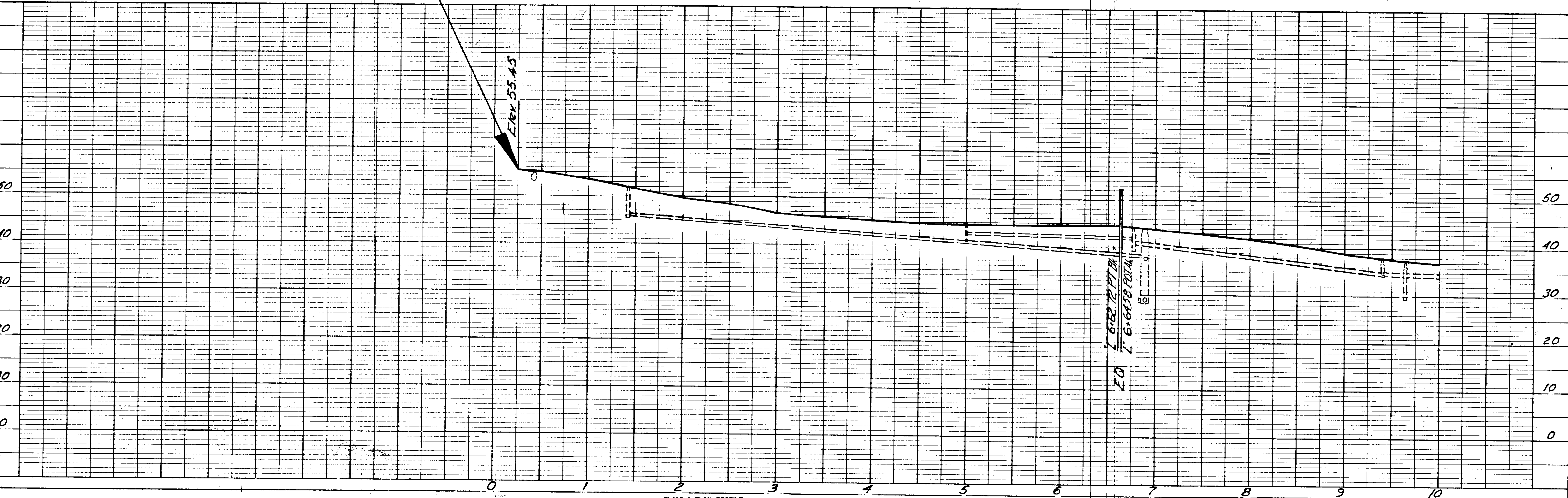
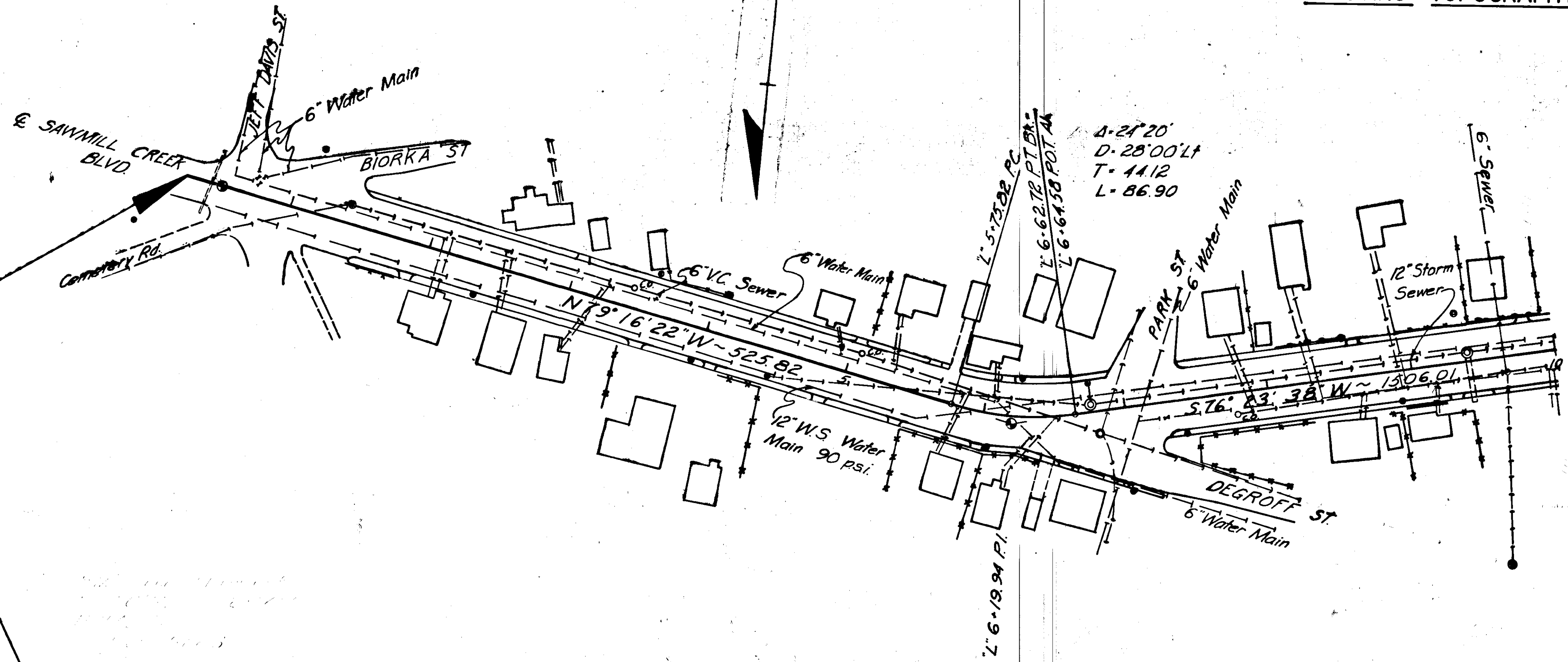
DESIGNED BY FRANK E. NYMAN	CHECKED BY FRANK E. NYMAN	DATE	SCALE NOTED

TRYCK, NYMAN & HAYES CONSULTING ENGINEERS ANCHORAGE, ALASKA	FIELD BOOK 1076	SHEET 5	OF 5
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933(5)	1966	29	40

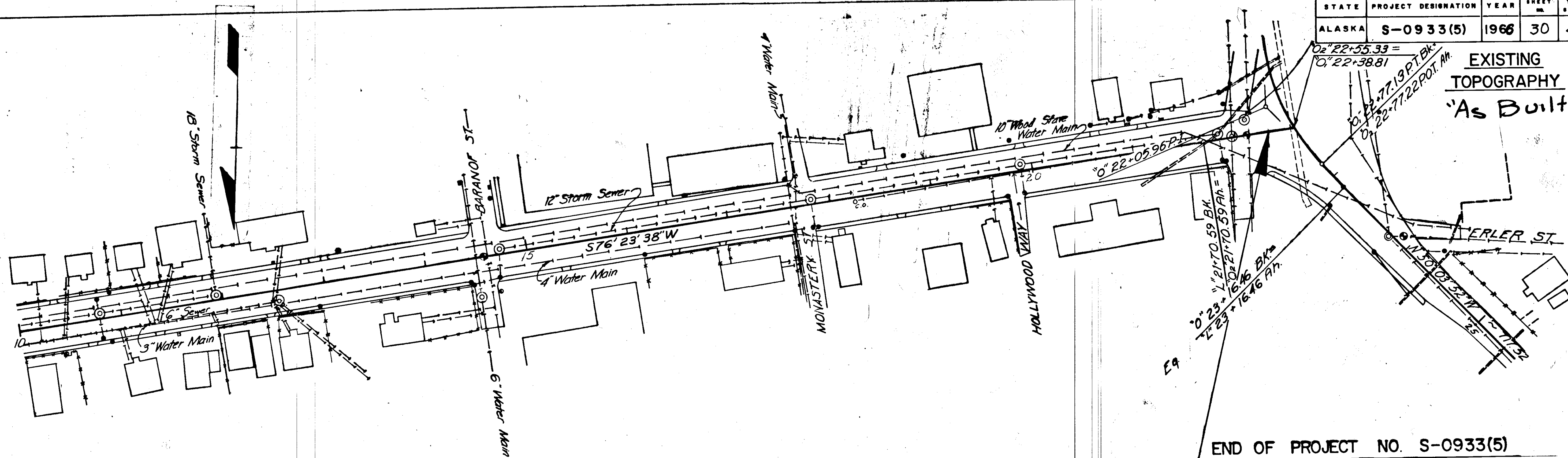
EXISTING TOPOGRAPHY "As Built"

BEGINNING OF PROJECT NO. S-0933(5)
STA. "L" 0+25.00



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0933(5)	1966	30	40

EXISTING
TOPOGRAPHY
"As Built"



END OF PROJECT NO. S-0933(5)
STA. 0+22+33.13

