

AS-BUILT
~~CONSTRUCTION~~ PLANS FOR
ADD ALT. FOR PROJECT NO. 57978
DILLINGHAM AIRPORT

AIRPORT SEWER IMPROVEMENTS

PHASE II SEWER MAIN, & SERVICE CONNECTIONS

PROJECT NO. 59327

1991

SPONSORED BY THE STATE OF ALASKA

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DESIGN AND CONSTRUCTION CENTRAL REGION

AS-BUILT

APPROVED Richard A. Brigg
RICHARD A. BRIGG, P.E.

DATE 1-27-93
AVIATION CONSTRUCTION
ENGINEER

APPROVED Keith R. Morberg
KEITH R. MORBERG, P.E.

7/8/91
CHIEF OF DESIGN

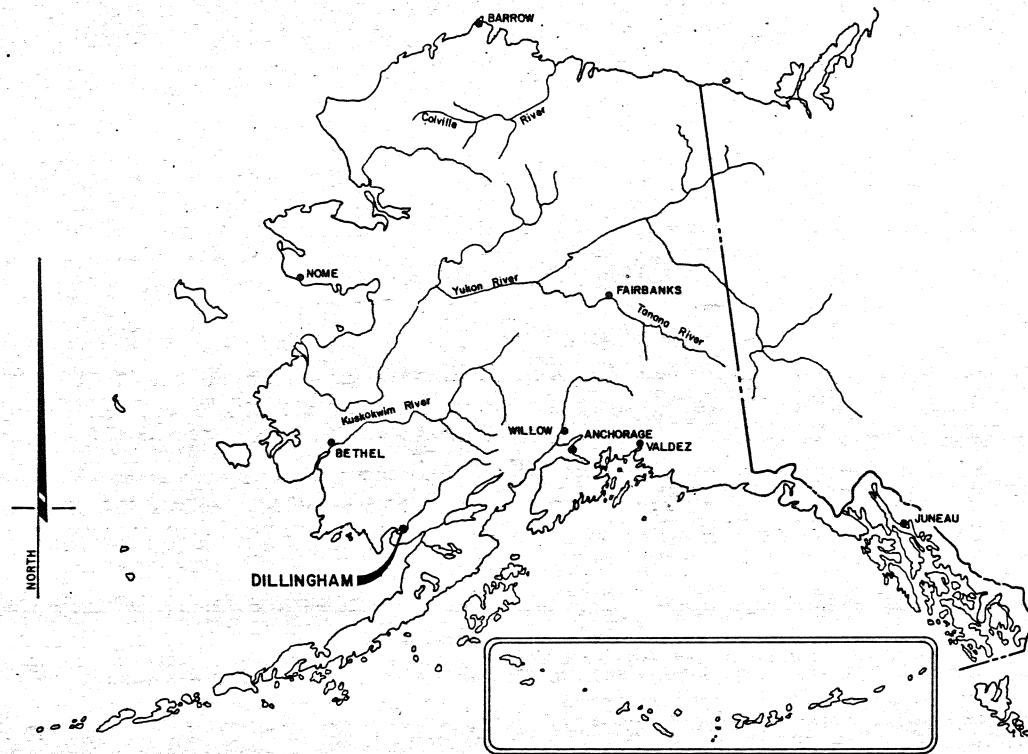
APPROVED Boyd J. Brownfield
BOYD J. BROWNFIELD, P.E.

DATE 7/8/91
DIRECTOR, DESIGN AND CONSTRUCTION

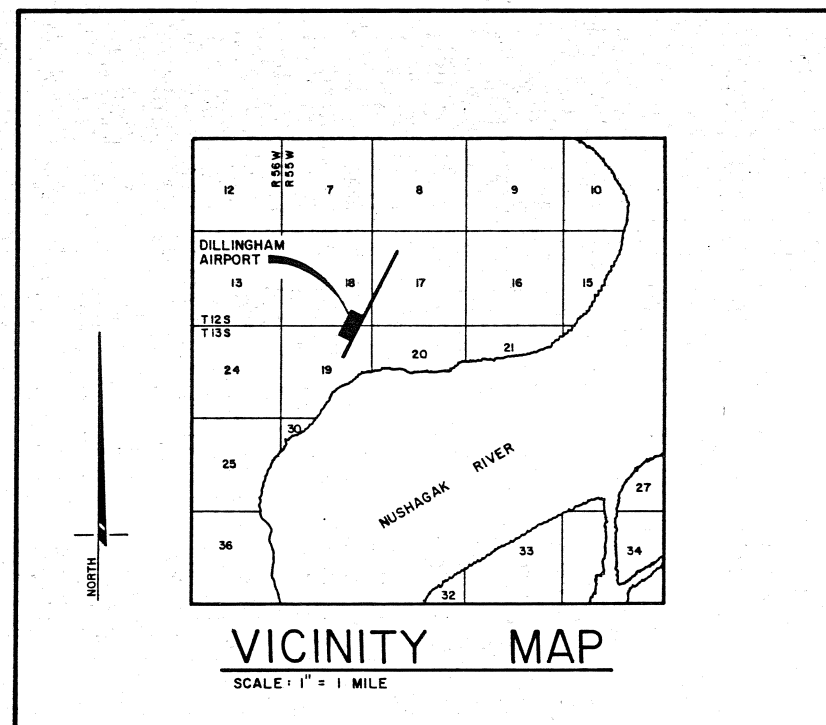
CONSULTANT: WM. J. NELSON & ASSOCIATES KENAI, ALASKA

DILLINGHAM

SHT. 1 of 5 59327



LOCATION MAP
NO SCALE



VICINITY MAP
SCALE: 1" = 1 MILE

FINAL ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
20.05	TYPE I CLASSIFIED FILL & BACKFILL	1,470	C.Y.
20.07	TRENCH EXCAVATION & BACKFILL	1,395	L.F.
20.09	FURNISH TRENCH BACKFILL (TYPE I)	1,395	L.F.
20.11	FURNISH BEDDING MATERIAL (CLASS C)	1,395	L.F.
20.13	DISPOSAL OF UNSUITABLE OR SURPLUS MATERIAL	2,981	C.Y.
20.14	MECHANICAL COMPACTION	1,400	L.F.
20.19	REMOVAL OF EXISTING PAVEMENT	251	S.Y.
30.3	PCC PAVEMENT 4" THICK WITH REINFORCEMENT	247	S.Y.
50.02(b)	FURNISH & INSTALL 8" H.D.P.E. SEWER	1,395	L.F.
50.03	SANITARY SEWER MANHOLE	4	EACH
50.10	SANITARY SEWER SERVICE CONNECTION	12	EACH
70.14	RESET FENCE	243.8	L.F.
90.04	TRAFFIC MAINTENANCE	ALL REQ'D.	L.S.
90.15	EXISTING UTILITIES IN CONSTRUCTION ZONE	ALL REQ'D.	L.S.
90.20	MOBILIZATION/DEMObILIZATION	ALL REQ'D.	L.S.
CHANGE ORDER No.1			
50.02 bb	CREDIT - 8" HDPE	1395	L.F.
CHANGE ORDER No.3			
50.20	VALVE REPAIR	1	L.S.
50.25	CATCH BASINS	1	L.S.
50.03a	M.H. EXTENSIONS	1	L.S.

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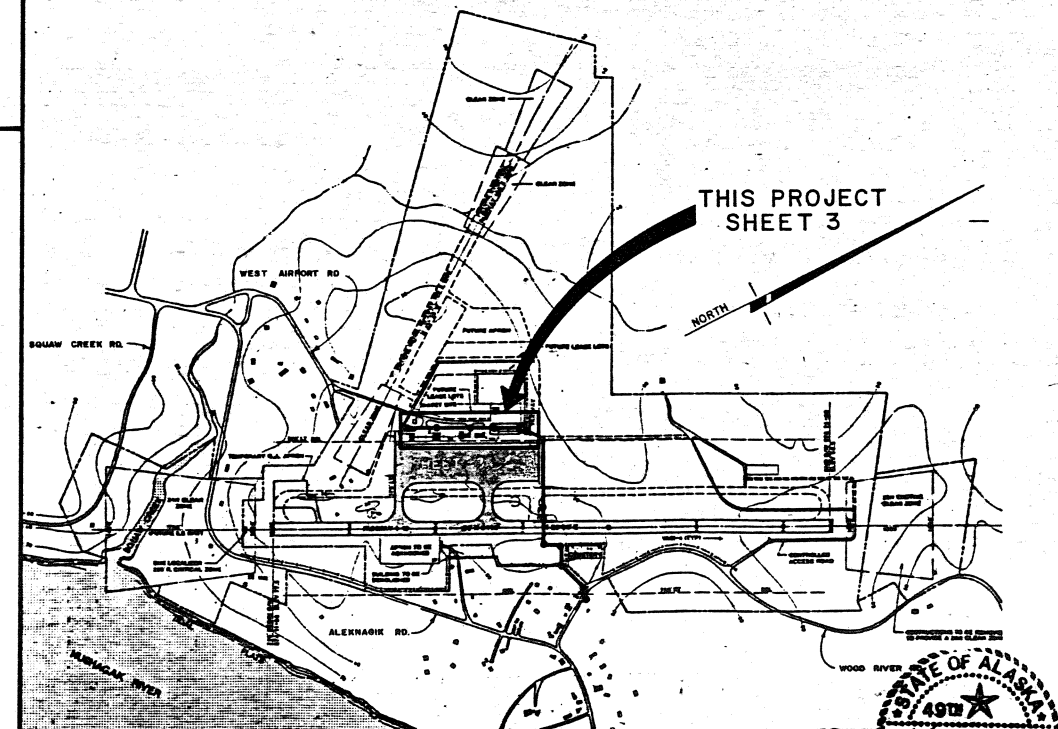
SHEET TITLE	SHEET NO.
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DETAILS	5

ABBREVIATIONS

ABS	ABESTOS	N	NORTH
ACMP	ALUMINUM CAP	NIC	NOT IN CONTRACT
ADJ	ADJUST	NO	NUMBER
APPROX	APPROXIMATE	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL	OC	ON CENTER
BCMF	BRASS CAP MONUMENT FOUND	OD	OUTSIDE DIAMETER
BLDG	BUILDING	P	PHONE
BLM	BUREAU OF LAND MANAGEMENT	PC	POINT OF CURVATURE
CI	CAST IRON or CIRCLE	PCC	PORTLAND CEMENT CONCRETE, POINT OF COMPOUND CURVE
CL	CHAIN LINK or CENTER LINE or CLASS	PED	PEDISTAL
CLR	CLEAR	PI	POINT OF INTERSECTION
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CLASS	CLASSIFIED	PR	PAIR
C/O	CLEAN OUT	PRESS.TREAT	PRESSURE TREATED
CONC	CONCRETE	PT	POINT OF TANGENCY, POINT
CONN	CONNECT	PVC	POLY VINYL CHLORIDE
CONST	CONSTRUCT	R	RADIUS, RECORD
CUL	CULVERT	RD	ROAD
DI	DUCTILE IRON	RECOMM	RECOMMENDATION
DIA	DIAMETER	REF	REFERENCE
E	EAST, ELECTRIC LINE	REQD	REQUIRED
EA	EACH	ROW	RIGHT OF WAY
EL	ELEVATION	RT	RIGHT
ELECT	ELECTRIC, ELECTRICAL	S	SOUTH, SLOPE
ELEV	ELEVATION	SD	STORM DRAIN
EOP	END OF PAVEMENT	SDR	SIZE, DIMENSION, RANGE
EQ	EQUAL	SHLD	SHOULDER
ESMT	EASEMENT	SPEC	SPECIFICATIONS
EXIST	EXISTING	STA	STATION
EXP	EXPANSION	STD	STANDARD
F	FOUND	SY	SQUARE YARDS
FRP	FIBERGLAS REINFORCED POLYESTER	T	TELEPHONE CABLE, TEMPORARY
G	GALVANIZED	TEMP	TEMPORARY
GALV	GALVANIZED	TH	TEST HOLE
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
ID	INSIDE DIAMETER	USS	UNITED STATES SURVEY
IE	INVERT ELEVATION	V	VOLTS
INSUL	INSULATE	VER	VERIFY
INV	INVERT	W	WEST, WATER
L	LENGTH		
LF	LINEAR FEET		
LOC	LOCATION		
LT	LEFT		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MH	MANHOLE		
MIN	MINIMUM		
MON	MONUMENT		

LEGEND

—	PROPERTY LINE
—	CENTERLINE
—	UNDERGROUND TELEPHONE
—	UNDERGROUND GAS
—	UNDERGROUND ELECTRIC
—	UNDERGROUND CABLE TELEVISION
—	CHAIN LINK FENCE
—	SOILS TEST HOLE
—	DRAINAGE PATTERN OR DITCH
—	PHONE PEDESTAL OR POWER BOX
—	POWER POLE
—	TREE LINE

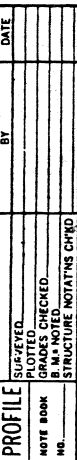


SHEET INDEX MAP
NO SCALE

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



DILLINGHAM AIRPORT
ADD. ALT. PROJ. # 57978
SEWER PH. II PROJECT 59327
ESTIMATED QUANTITIES, INDEX, LOCATION,
VICINITY AND SHEET INDEX MAPS

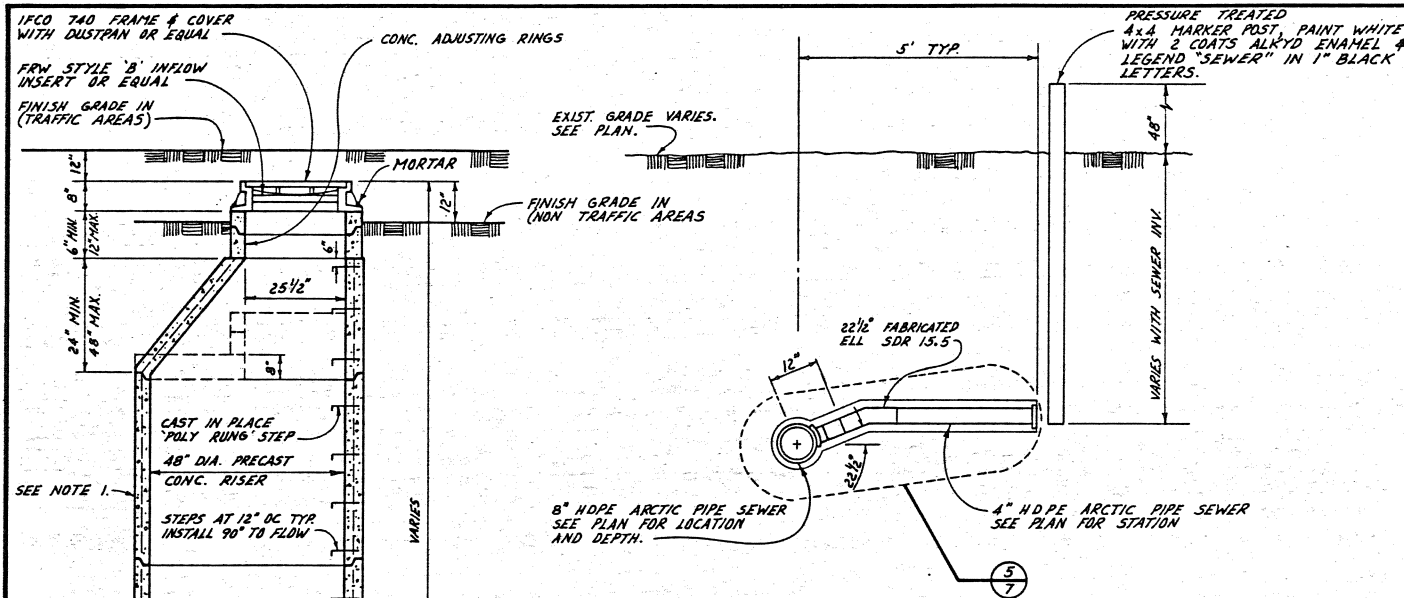
WOT	1-27-73	AS-BUILT	APPROVED	Steve Van Horn, P.E.	DESIGN GROUP CHIEF
V.W.	7-8-91	PHASE II UPDATES	APPROVED	Gregg R. Bradley, P.E.	PROJECT MANAGER
D.A.C.	6-14-90	ESTIMATED QUANTITIES	BY	DATE	CHANGE
AS SHOWN	CHECKED	DATE	DATE	DATE	DATE



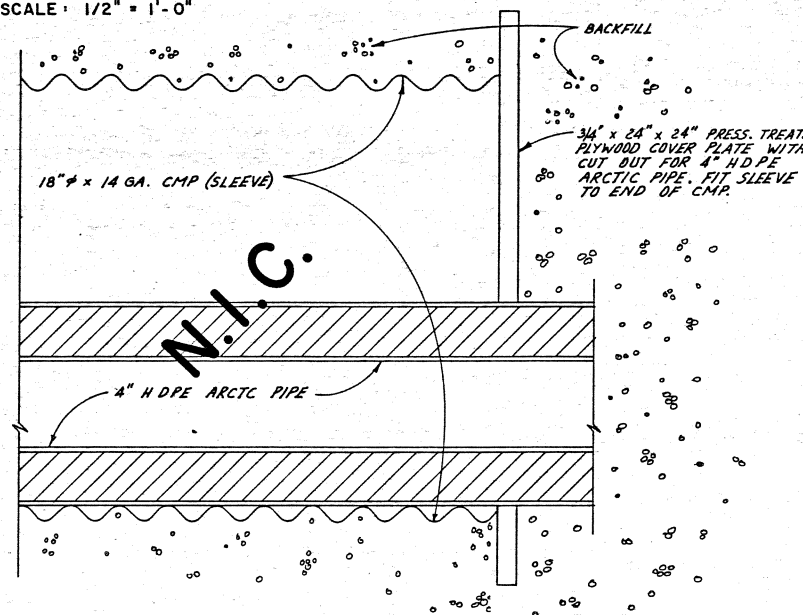
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

DILLINGHAM AIRPORT
ADD. ALT. PROJ. # 57978
SEWER PH. II PROJECT 59327
SEWER PLAN & PROFILE

APPROVED		 GREG F. BRADLEY, P.E.		DESIGN GROUP CHIEF	
APPROVED		 GREG F. BRADLEY, P.E.		PROJECT MANAGER	
CALC. WORK.	DESIGNED	DRAWN	SHEET 3 OF 5		
VERT. 1" = 50'	CHECKED	DATE			
HORIZ. 1" = 5'	W.N.	4-19-90			

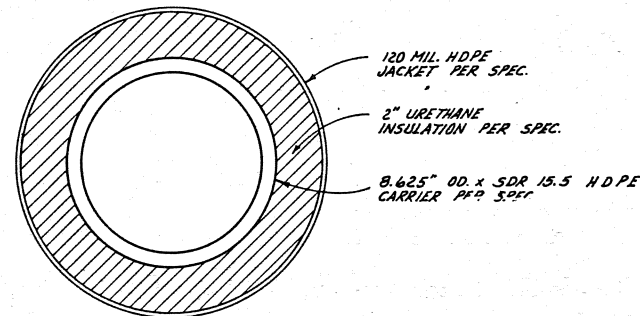


1 TYPICAL SEWER SERVICE CONNECTION
SCALE: 1/2" = 1'-0"

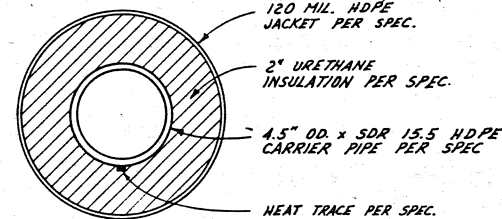


- NOTES
- USE EXCAVATED SOILS FOR BACKFILL, NO FROZEN CHUNKS LARGER THAN 12" IN THEIR GREATEST DIMENSIONS SHALL BE PLACED WITHIN 24" OF THE PIPE LINE. SEGREGATE GRAVELLY SOIL FROM SILTY SOIL AS DIRECTED BY THE ENGINEER & PLACE SILTY SOILS IN LOWER AREAS, INCIDENTAL TO TRENCH EXCAVATION & BACKFILL (ITEM 20.07)
 - TRENCH WALL SLOPE WILL VARY WITH SOIL STRENGTH, MOISTURE CONTENT, TEMPERATURE, AND OTHER VARIABLE FIELD CONDITIONS. CONFORM TO APPLICABLE SAFETY STANDARDS, SHORE TRENCH AND DEWATER AS REQD. INCIDENTAL TO TRENCH EXCAVATION BACKFILL (ITEM 20.07)
 - VARIES, SHORE TRENCH AS REQD. TO PROTECT EXIST. ASPHALT PAVEMENT.
 - FURNISH BEDDING MATERIAL, CLASS C" (ITEM 20.11) PER LINEAR FOOT & COMPACT TO THE SATISFACTION OF THE ENGINEER.

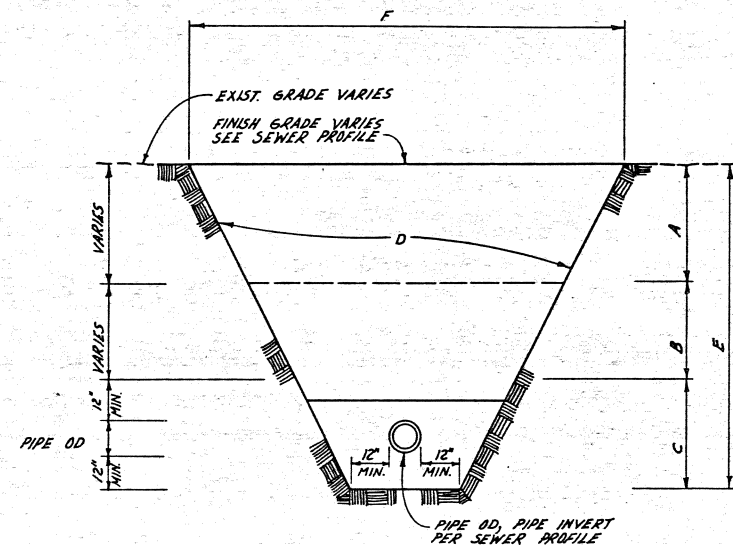
6 TYPICAL TRENCH SECTION
STA. 24 + 75 TO STA. 46 + 14.76
NOT TO SCALE



2 TYPICAL 8" HDPE ARCTIC PIPE
SCALE: 3" = 1'-0"



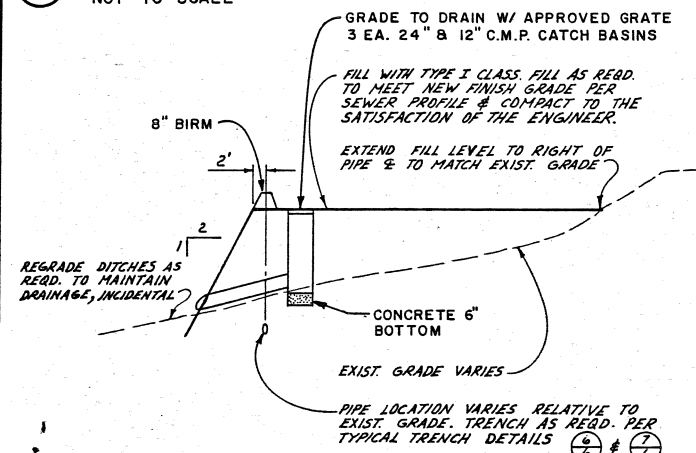
3 TYPICAL 4" HDPE ARCTIC PIPE
SCALE: 3" = 1'-0"



- NOTES
- EXISTING GRAVELLY SOIL TO BE SEGREGATED, STOCKPILED AND USED FOR BACKFILL, AS DIRECTED BY THE ENGINEER, INCIDENTAL TO TRENCH EXCAVATION, BACKFILL AND COMPACTION, (ITEM 20.07)
 - DISPOSE OF UNSUITABLE MATERIAL (ITEM 20.13) PER CUBIC YARD AS DIRECTED BY THE ENGINEER. FURNISH TRENCH BACKFILL, TYPE I (ITEM 20.09), PER LINEAR FOOT.
 - DISPOSE OF UNSUITABLE MATERIAL (ITEM 20.13) PER CUBIC YARD AS DIRECTED BY THE ENGINEER. FURNISH BEDDING MATERIAL, CLASS C, (ITEM 20.11) PER LINEAR FOOT OF TRENCH.
 - TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH, MOISTURE CONTENT, TEMPERATURE AND OTHER VARIABLE FIELD CONDITIONS. CONFORM TO APPLICABLE SAFETY STANDARDS, SHORE TRENCH & DEWATER AS REQD, INCIDENTAL TO TRENCH EXCAVATION & BACKFILL, (ITEM 20.07).
 - COMPACT TRENCH BACKFILL TO THE SATISFACTION OF THE ENGINEER.
 - 20' MAX. FROM STA. 8+80 TO STA. 22+60, SHORE TRENCH AS REQD TO STAY WITHIN LIMITS.

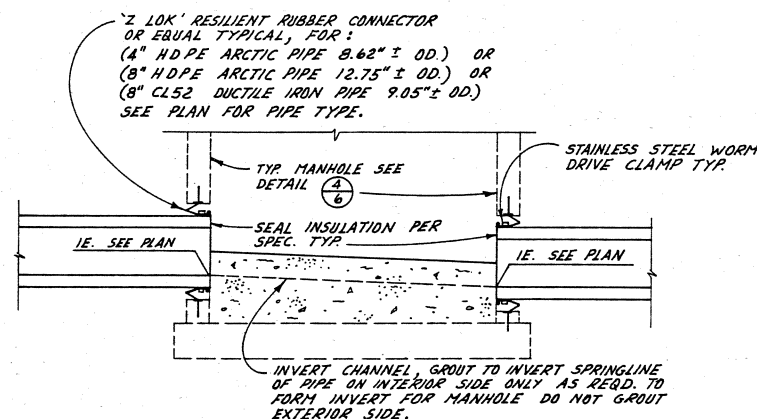
7 TYPICAL TRENCH SECTION
STA. 8+80 TO STA. 22+60
NOT TO SCALE

4 TYPICAL SANITARY SEWER MANHOLE TYPE 'A'
NOT TO SCALE



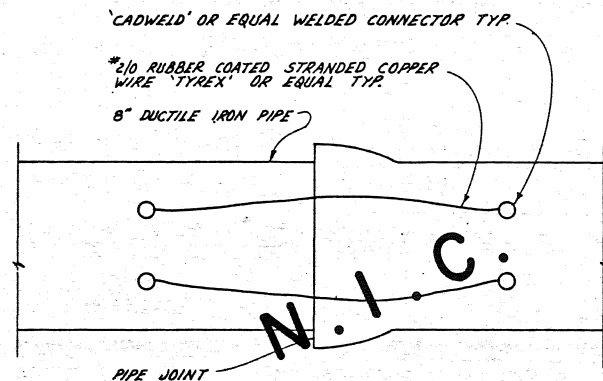
8 TYPICAL FILL SECTION & CATCH BASINS (C.O. No. 3)
NOT TO SCALE

5 SLEEVE
SCALE: 3" = 1'-0"

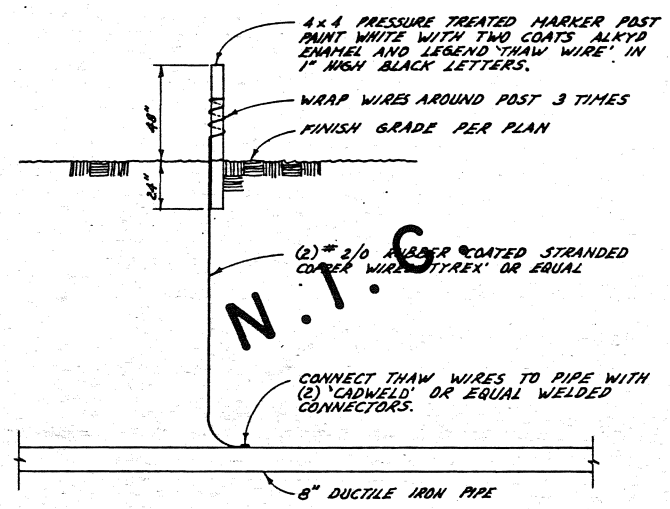


9 PIPE CONNECTION TO MANHOLE
SCALE: 3/4" = 1'-0"

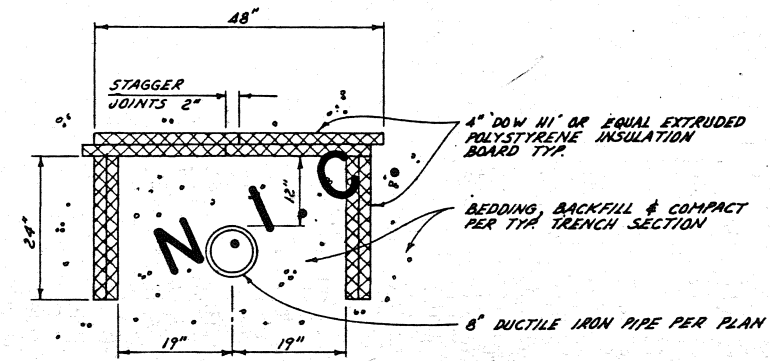
WRT	1-21-93	AS-BUILT	APPROVED	Steve Van Horn, P.E.	DESIGN GROUP CHIEF
V.W.	7-8-91	PHASE II UPDATES	APPROVED	Gregg P. Bowley, P.E.	PROJECT MANAGER
D.A.C.	6-14-90	REVISED NOTES	SCALE	AS SHOWN	CHECKED W.J.N. DATE 4-19-90 SHEET 4 OF 5
BY	DATE	CHANGE	REVISIONS		



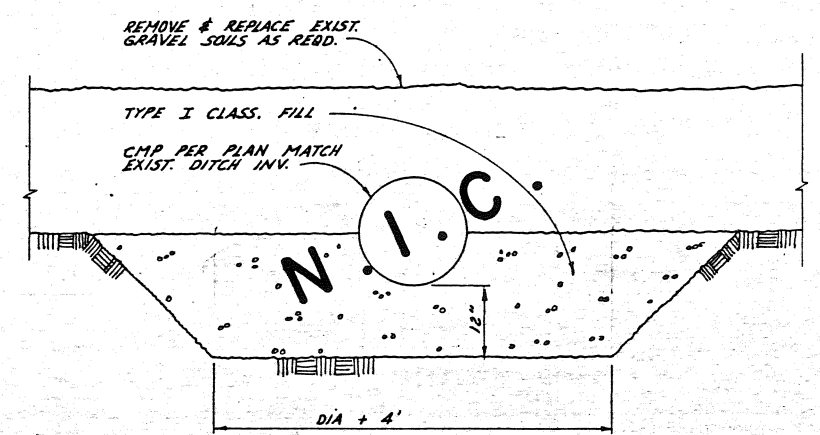
1 CONTINUITY STRAP
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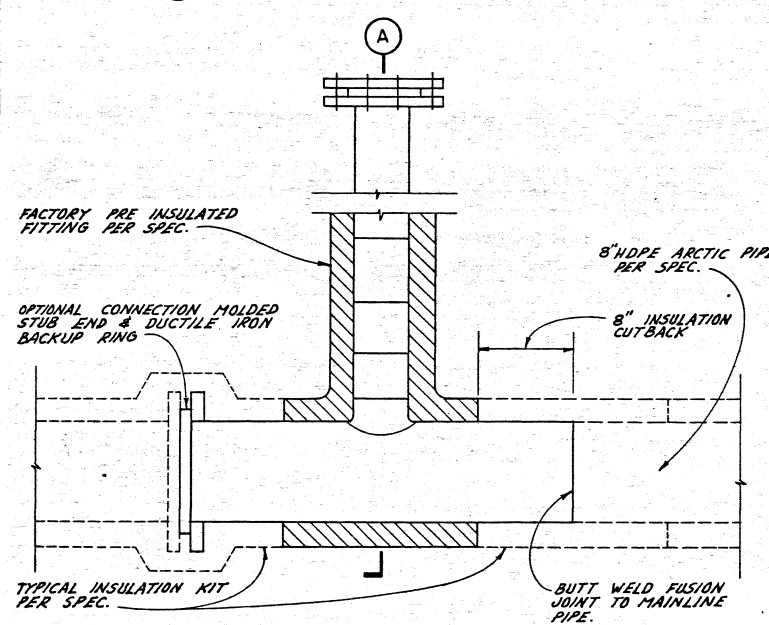
2 THAW WIRE & MARKER POST
NOT TO SCALE



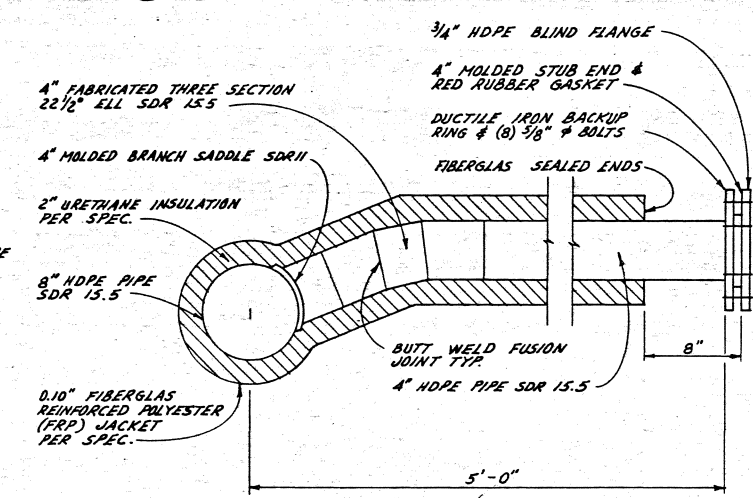
3 PIPE INSULATION
STA. 35 + 08 TO STA. 35 + 58 AND
STA. 37 + 38 TO STA. 37 + 88
SCALE: 3/4" = 1'-0"



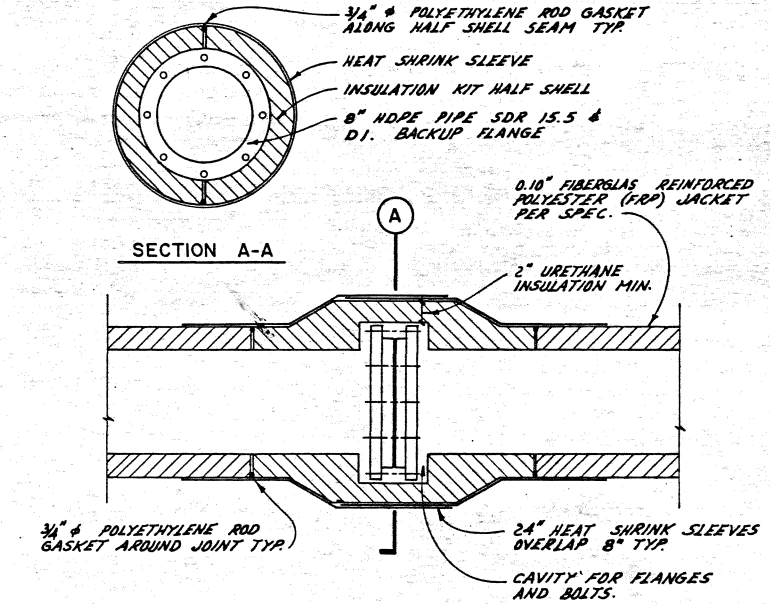
4 STANDARD CMP INSTALLATION
SCALE: 3/4" = 1'-0"



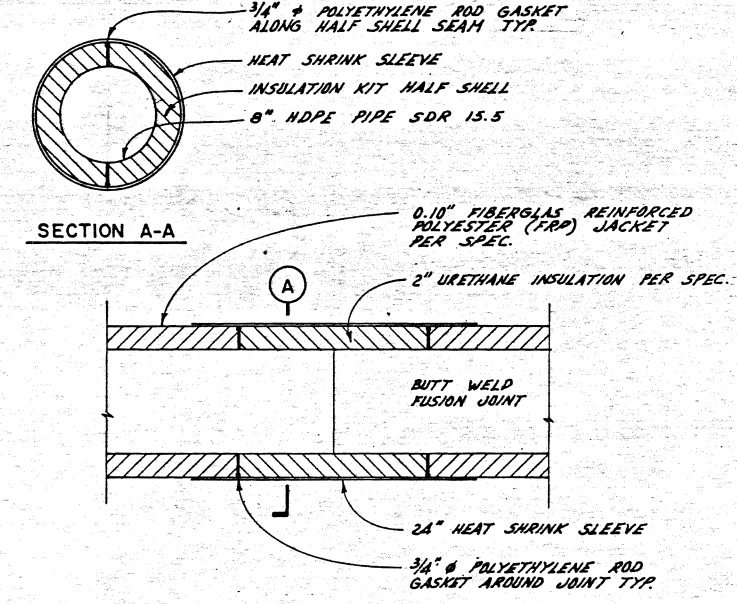
PLAN



SECTION A-A



PLAN

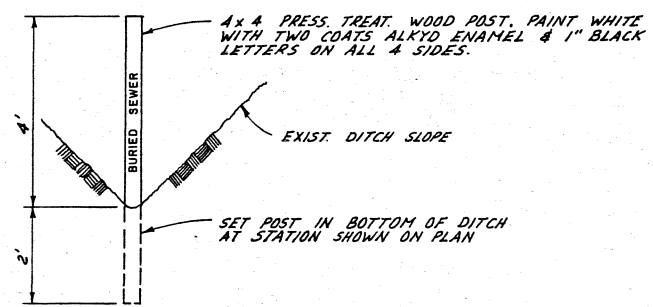


PLAN

5 TYPICAL SEWER SERVICE
SCALE: 1 1/2" = 1'-0"

6 TYPICAL FLANGE JOINT INSULATION KIT
SCALE: 1 1/2" = 1'-0"

7 TYPICAL BUTT WELD FUSION JOINT INSULATION KIT
SCALE: 1 1/2" = 1'-0"



8 SEWER MARKER POST
SCALE: 1 1/2" = 1'-0"



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

DILLINGHAM AIRPORT
ADD ALT. PROJ. # 57978
SEWER PH. II PROJECT 59327
DETAILS

APPROVED	Steve Van Horn, R.E.	DESIGN GROUP CHIEF
APPROVED	Greg Bradley, R.E.	PROJECT MANAGER
SCALE	AS SHOWN	
DESIGNED	W.J.N.	DRAWN D.A.C.
CHECKED	W.J.N.	DATE 4-19-90
BY	DATE	CHANGE
REVISIONS		