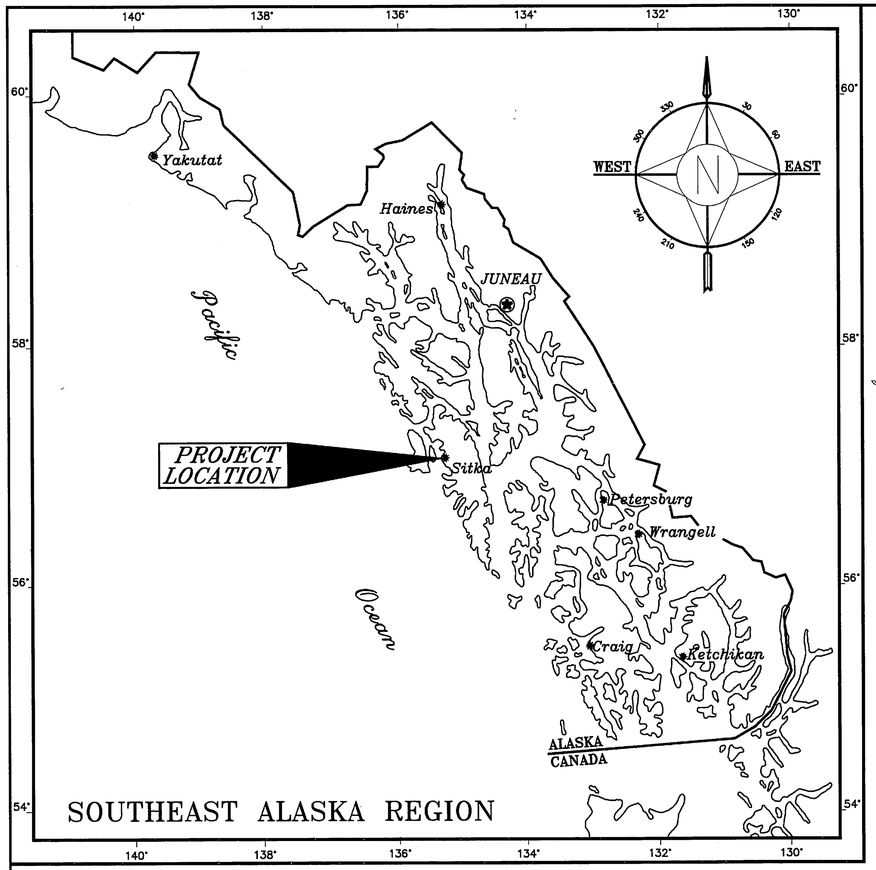


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEASTERN REGION
DESIGN AND CONSTRUCTION DIVISION

SIT-ERLER TO PETERSON IMPROVEMENTS

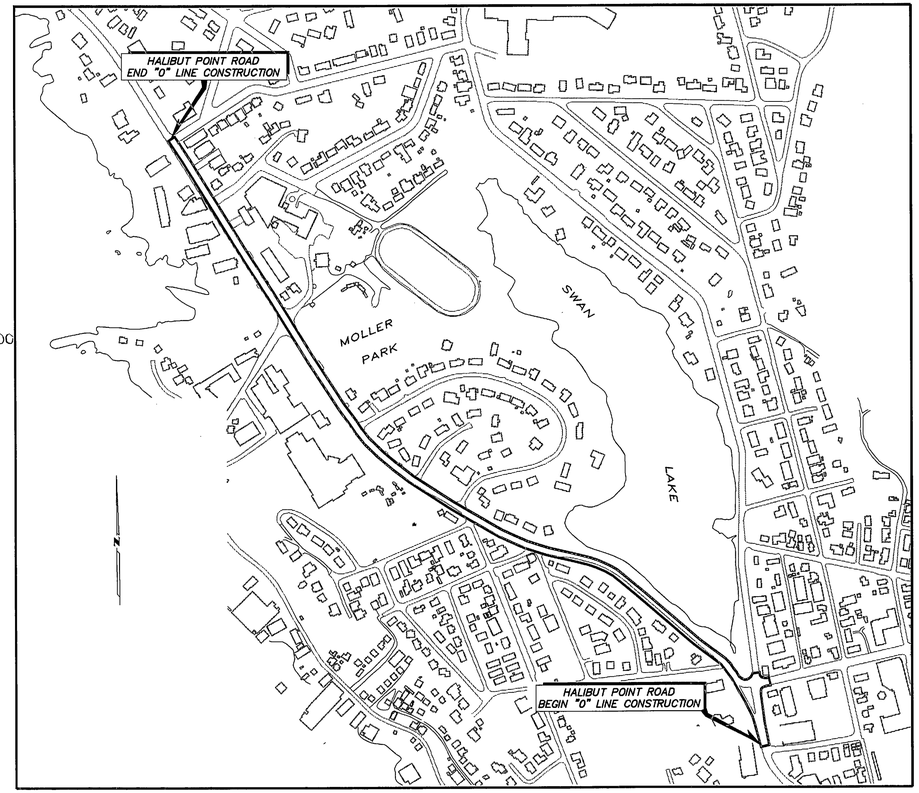
PROJECT NO.70606
NH-099-3(3)

PAVING, GRADING, DRAINAGE, RETAINING WALL AND ELECTRICAL

CITY AND BOROUGH OF SITKA

SEWER/WATER

PROJECT NO.71719



VICINITY MAP

AS-BUILTS

by Thad Hopper

DESIGN DESIGNATION

	STA. 22+00 TO STA. 52+00	STA. 52+00 TO STA. 64+00
ADT (1992)	11,300	12,641
ADT (1995)	11,600	13,000
ADT (2015)	13,000	14,530
DHV	1560	1,740
D	50/50	50/50
T	5%	5%
T.I.	N/A	N/A
V.	30 curb 35 mph	
EAL (2015)	1,321,600	1,479,100

AS-BUILT PLANS

CONTRACTOR: WILDER CONSTRUCTION CO.
ORIGINAL CONTRACT AMOUNT: $6,055,771.00
PROJECT ENGINEER: GREG BROWNING
START DATE: APRIL 1, 1995
END DATE : NOVEMBER 28, 1995

PROJECT SUMMARY

"0" 20+55.46 TO "0" 64+00
WIDTH OF SUBGRADE - 34' & 45'
LENGTH OF PROJECT - 4122.34' = 0.78 Miles

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1; C-01.03; C-02.01; D-01.02; D-20.02; D-23.00; D-24.00; D-26.01
D-27.01; G-29.01S; G-45.01; I-20.11; I-81.00; L-03.02; L-10.02; L-14.00
L-23.01; L-30.02; M-13.01; M-16.01; S-00.00; S-05.00; S-20.00; S-30.01
T-03.02; T-20.00; T-21.01; T-22.02

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SURVEY DATA AND SYMBOLS
3	ESTIMATE OF QUANTITIES
4-7	TYPICAL SECTIONS
8-10	MISCELLANEOUS SUMMARIES
11-13	SIGN SUMMARIES-"0" LINE
14-15	TRAFFIC CONTROL PLAN
16-22	PLAN & PROFILE - "0" LINE
23-26	ROADWAY CONSTRUCTION PLANS
27	OVERLAY INTER. HPR/LAKE/SAWMILL
28-31	RETAINING WALL-SIDEWALK/WALL PLANS
32-42	SANITARY SEWER & WATER DISTRIBUTION
43-45	WATER/SEWER DETAILS
46-48	SIGNING & STRIPPING PLAN
49-49B	DRIVEWAY & APPROACH PROFILES
49C	CULVERT GRATE DETAILS
49D-49E	SIDEWALK DETAILS
49F	MANHOLE DETAILS
50	LEGENDS & SYMBOLS
50A	ELECTRICAL ONE LINE DIAGRAM
52-58	CONDUIT SYSTEM PLAN & PROFILE
59-62	SIDE STREET INTERSECTION DETAILS
63-65	ELECTRICAL MANHOLE DETAILS
66-68	CONDUIT SCHEDULE
69-76	DUCTBANK SECTIONS
77-78	ELECTRICAL MANHOLE DETAILS
79-80	ELECTRICAL PULL BOX SCHEDULE & DETAILS
80-81	ELECTRICAL SWITCH & TRANSFORMER DETAILS
83-84	ELECTRICAL SERVICE LIST & DETAILS
85	OVERHEAD SYSTEM MODIFICATIONS
86	STREET LIGHT DETAILS
87-93	OVERHEAD SYSTEM ASSEMBLY DETAILS
94-95	OVERHEAD REMOVAL SCHEDULE
96	ELECTRICAL CABLE SCHEDULE
97	TELEPHONE MANHOLE DETAILS
98	TELEPHONE PEDESTAL SCHEDULE
99	TELEPHONE AND CATV OVERHEAD MODIFICATIONS
100-101	CATV PEDESTAL LIST & DETAILS
102-105	TRAFFIC SIGNAL PLAN, SCHEDULES & DETAIL
106	DUCT BANK SWEEP SUMMARY
106A	CROSS WALK LIGHTING DETAIL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEASTERN REGION DESIGN SECTION

APPROVED _____ Date 10/11/94
S.E. Region Preconstruction Engineer

APPROVED _____ Date 10/11/94
FOR Director, S.E. Region Design & Construction

AS-BUILT
BY: B.A. DATE: 4-9-96

PROJECT NUMBER: 70606
DATE: JULY, 1994
SHEET 1 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Fong
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606-\94\PLANSET\$SITCOVR
R&M #921374 /SITCOVER.DWG 1:20
FILE: O.S. 206-1

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

CENTERLINE MONUMENTS				
STATION	NORTH	EAST	OFFSET	REMARKS
22+77.66	1,910,865.87	2,353,883.83	N/A	PROTECT & MAINTAIN
30+33.98	1,911,363.55	2,353,314.36	N/A	PROTECT & MAINTAIN
32+66.31	1,911,468.75	2,353,109.78	N/A	SEE NOTE 7
35+08.81	1,911,527.16	2,352,880.26	5.5'LT	SEE NOTE 7
37+69.53	1,911,638.23	2,352,639.37	N/A	SEE NOTE 7
39+30.55	1,911,723.50	2,352,499.49	N/A	PROTECT & MAINTAIN
41+78.44	1,911,851.33	2,352,290.73	N/A	PROTECT & MAINTAIN
45+78.54	1,912,120.04	2,351,997.07	N/A	SEE NOTE 7
46+88.39	1,912,210.23	2,351,934.44	N/A	PROTECT & MAINTAIN
52+01.50	1,912,647.82	2,351,660.46	N/A	PROTECT & MAINTAIN
58+86.39	1,913,228.35	2,351,297.06	2.0'LT	SEE NOTE 7
62+76.31	1,913,558.78	2,351,090.05	N/A	SEE NOTE 7
66+55.59	1,913,846.29	2,350,909.91	N/A	PROTECT & MAINTAIN

GENERAL NOTES

1. GRADES AND ALIGNMENTS SHOWN ON THESE PLANS MAY BE SUBJECT TO MINOR REVISIONS AS APPROVED OR DIRECTED BY THE ENGINEER.
2. PIPE CONDUIT LENGTHS AND LOCATIONS SHOWN ON THESE PLANS MAY BE SUBJECT TO MINOR FIELD REVISIONS AS APPROVED OR DIRECTED BY THE ENGINEER.
3. STORM DRAINAGE STRUCTURE LOCATIONS SHOWN ON THESE PLANS MAY BE SUBJECT TO MINOR FIELD REVISIONS AS APPROVED OR DIRECTED BY THE ENGINEER.
4. WASTE MATERIAL REMOVED FROM THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR AT APPROVED OFF-SITE DISPOSAL SITES. CONTRACTOR SHALL PROVIDED NECESSARY APPROVALS AS MAY BE REQUIRED BY THE ENGINEER.
5. THE UNCLASSIFIED EXCAVATION VOLUME SHOWN INCLUDES ALL EXCAVATION, EXCEPT ROCK EXCAVATION, REGARDLESS OF THE MATERIAL ENCOUNTERED.
6. REFER TO RIGHT OF WAY PLANS FOR LOCATION OF ALL EXISTING MONUMENTS, EASEMENTS AND CONSTRUCTION PERMITS.
7. THE CONTRACTOR SHALL LOCATE AND REPLACE ALL MONUMENTS DAMAGED, OR DESTROYED DURING CONSTRUCTION. THE CONTRACTOR SHALL ESTABLISH SUFFICIENT REFERENCES TO RESET MONUMENTS AFTER COMPLETION OF THE WORK.
8. NO CONSTRUCTION IS PERMITTED WITHIN SWAN LAKE. ALL ROADWAY DRAINAGE DURING CONSTRUCTION WILL BE COLLECTED AND ROUTED SO NO DISCHARGE OF WATER OF ANY KIND OCCURS INTO THE LAKE. DISCHARGE MAY ONLY OCCUR AT THE OUTFALL FOR THE UNDERGROUND STORM DRAINAGE SYSTEM. CONSTRUCTION DISCHARGE MAY ONLY OCCUR AT THE OUTFALL LOCATION FOR THE UNDERGROUND STORM DRAINAGE. SYSTEM. NO CONSTRUCTION MATERIAL OF ANY KIND INCLUDING BUT NOT LIMITED TO BORROW, WASTE, STORED MATERIAL EMBANKMENT, EXCAVATED MATERIALS, SHALL BE PLACED IN THE LAKE OR STORED IN SUCH A MANNER THAT IT MAY BE WASHED, SLIDE OR PUSHED INTO THE LAKE.

TABLE OF SYMBOLS

- EXISTING A.D.O.T.& P.F. CENTERLINE MONUMENT
- EXISTING MONUMENT (PRIVATE AND/OR C.B.S.)
- EXISTING CULVERT
- EXISTING CATCH BASIN
- EXISTING STORMDRAIN MANHOLE
- EXISTING STRUCTURE
- EXISTING ROCKERY / WALL
- EXISTING GUARDRAIL
- EXISTING SIGN
- EXISTING UTILITY RISER / VAULT
- R & M TEST HOLES
- TREES
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING MAILBOX
- E — E — EXISTING OVERHEAD ELECTRIC UTILITY
- X — X — EXISTING WOOD FENCE
- O — O — EXISTING WIRE FENCE
- EXISTING TRAFFIC SIGNAL
- EXISTING STAIRS
- FILL SLOPE LIMIT
- CUT SLOPE LIMIT

GENERAL SURVEY NOTES

1. THE BASIS OF BEARING FOR THIS PROJECT IS BETWEEN RECOVERED A.D.O.T.& P.F. CONTROL MONUMENTS "HP-11" AND "HP-13" HAVING AN ACCEPTED BEARING OF S36°23'59"E. THIS INFORMATION WAS SUPPLIED R&M ENGINEERING, INC. BY A.D.O.T.& P.F.-S.E. REGION, LOCATIONS DEPT. THIS BEARING IS WITH RESPECT TO A.S.P., ZONE 1 GRID NORTH. SEE SHEET 24 OF 106 FOR LOCATION BASIS OF BEARING.
2. THE BASIS OF POSITION/COORDINATES FOR THIS PROJECT IS A.D.O.T.&P.F. CONTROL MONUMENT "HP-13" = N 1,911,687.41, E 2,352,516.50. THE ELEVATION OF THIS POINT IS 59.35' (M.L.L.W.). COORDINATES ARE ALASKA STATE PLANE, ZONE 1 WHILE THE ELEVATION REFLECTS THE STATE TIDAL DATUM AS DEFINED BY N.O.A.A. (N.O.S.). THE PROJECT SCALE FACTOR FOR CONVERSION BETWEEN TRUE AND GRID DISTANCES IS 0.9999719. THE MEAN CONVERGENCE ANGLE TO CONVERT TO TRUE FROM GRID BEARING AT THE MID POINT OF THE BASIS OF BEARING IS 1°24'42" RIGHT.
3. ALL DISTANCES SHOWN BY THESE PLANS HAVE BEEN REDUCED TO HORIZONTAL FIELD DISTANCES.
4. THE FIELD SURVEYING FOR THIS PROJECT WAS PERFORMED BY R&M ENGINEERING, INC. SURVEY TEAMS BEGINNING IN FEB., 1993 AND ENDING IN APR., 1993. MONUMENT FIELD SEARCH AND TIES, LOCATION OF TOPOGRAPHY AND FIELD TRAVERSE ADJUSTMENT FOR THIS PROJECT WERE DIRECTLY SUPERVISED AND ACCOMPLISHED BY AN ALASKA LICENSED LAND SURVEYOR.
5. THE SETTING OF SURVEY MONUMENTS WILL BE PERFORMED AND/OR DIRECTLY SUPERVISED BY AN ALASKA LICENSED LAND SURVEYOR ACCORDING TO A.D.O.T.& P.F. PROJECT PLANS AND SPECIFICATIONS.

AS-BUILT
BY: B.A. DATE: 4-9-96

P:\SIT\70606\94\PLANSET\#QTY2
R&M #921374/QTY2.DWG/SCALE 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
G. P.	7/18/94	P. S. & E. REVIEW COMMENT CHANGES.
B.A.	4/10/96	AS-BUILT

RECORD OF REVISIONS

FILE: C.S. 206-2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
SURVEY DATA AND SYMBOLS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 2 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies
No. 1855-EE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
120 (1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D.
202 (1)	REMOVAL OF STRUCTURES & OBSTRUCTIONS	L.S.	ALL REQ'D.
202 (2)	REMOVAL OF PAVEMENT	S.Y.	~~10,306~~ 15,488
202 (3)	REMOVAL OF SIDEWALK	S.Y.	~~3,782~~ 2,692
202 (4)	REMOVAL OF CULVERT PIPE	L.F.	~~2,132~~ 1,728
202 (6)	REMOVAL OF MANHOLES	EACH	19
202 (8)	REMOVAL OF INLETS	EACH	~~16~~ 17
202 (9)	REMOVAL OF CURB & GUTTER	L.F.	~~4,100~~ 4,127
202 (10)	SINGLE MAIL BOX INSTALLATION	EACH	~~1~~ 3
202 (12)	SAW CUT ASPHALT	L.F.	~~10,000~~ 4,684
203 (2)	ROCK EXCAVATION	C.Y.	~~498~~ 406
203 (3)	UNCLASSIFIED EXCAVATION	C.Y.	19,965
203 (6)	BORROW, TYPE B	TON	17,055
203 (11)	SUBEXECAVATION	C.Y.	~~10,115~~ 939.8
301 (3)	CRUSHED AGGREGATE BASE COURSE, GRADING D-1	TON	~~3,690~~ 10,627.1
304 (1)	SUBBASE, GRADING "E"	TON	8,536
401 (1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B	TON	~~2,471~~ 5,806.46
401 (2)	PBA-2 ASPHALT CEMENT	TON	~~125~~ 330.96
401 (6)	PAVEMENT PATCH	S.Y.	~~1,000~~ ~~0~~
402 (2)	STE-1 ASPHALT FOR TACK COAT	TON	~~7.5~~ 11.34
406 (1)	ASPHALT GRINDING	S.Y.	~~9,383~~ 5,881.3
603 (9-24)	24 INCH ~~CORRUGATED ALUMINUM PIPE~~ HDPE	L.F.	~~3,520~~ 4,432.0
603 (22-24)	24 INCH HDPE PIPE	L.F.	~~1062~~
603 (23)	PIPE GRATING AND CONCRETE COLLAR	EACH	~~1~~ 3
401 (1)s	ASPHALT CONCRETE, TYPE II CLASS		TON 1,609.7
604 (2)	SANITARY SEWER MANHOLE TYPE I	EACH	21
604 (2A)	SANITARY SEWER MANHOLE TYPE II	EACH	~~2~~ 8
604 (3)	RECONSTRUCT EXISTING MANHOLE	EACH	1
604 (5A)	INLET, TYPE "A"	EACH	~~21~~ 14
604 (5B)	INLET, TYPE "B"	EACH	~~39~~ 40
604 (5C)	INLET, TYPE "C"	EACH	1
604 (8)	SANITARY SEWER CLEANOUT	EACH	3
604 (9)	UNDERDRAIN CLEANOUT	EACH	~~2~~ 3
605 (6)	8 INCH PERFORATED POLYETHELENE CORRUGATED PIPE FOR UNDERDRAINS	L.F.	~~970~~ 649
606 (5)	REMOVAL & DISPOSAL OF GUARDRAIL & END ANCHORAGES	L.F.	~~1,072~~ 1,075
607 (4)	RECONSTRUCTED FENCE	L.F.	~~368~~ 55
608 (1-4)	CONCRETE SIDEWALK 4"	S.Y.	~~3,363~~ 3,745.20
608 (1-6)	CONCRETE SIDEWALK 6"	S.Y.	~~1,954~~ 2,321.8
609 (2)	CURB & GUTTER, TYPE I	L.F.	~~6,500~~ 7,867.5
614 (1)	SURVEY MONUMENTS	EACH	~~12~~ 37
614 (2)	MONUMENT CASES	EACH	~~12~~ 16
614 (3)	ADJUST EXISTING MONUMENTS AND CASES	EACH	~~13~~ ~~0~~
615 (1)	STANDARD SIGNS	S.F.	~~424~~ 408.13
615 (2)	REMOVE AND RELOCATE EXISTING SIGNS	EACH	~~7~~ 11
618 (1)	SEEDING	ACRE	1.25
620 (1)	TOPSOIL	S.Y.	6,050
625 (1)	PIPE HAND RAIL	L.F.	~~1,662~~ 1,285
626 (1)	6" PVC SERVICE	EACH	46
626 (2)	2" PRESSURE SERVICE	EACH	~~5~~ 4
626 (3)	8" PVC SEWER MAIN	L.F.	~~4,062~~ 4,737.6
626 (4)	10" PVC SEWER MAIN	L.F.	~~430~~ 452
626 (5)	LOCATE EXISITNG SERVICES	EACH	~~38~~ 49
~~626 (6)~~	~~8" D.I.P. SEWER~~	~~L.F.~~	~~293~~
626 (8)	16" D.I.P. RESTRAINED JOINT SEWER	L.F.	~~47~~ 92.6
401 (2)s	PBA-2 ASPHALT CEMENT	TON	91.75
627 (1a)	6" RESTRAINED JOINT D.I.W.P.	L.F.	~~185~~ 254
627 (3)	INSTALL VALVE BOX	EACH	~~36~~ 10
627 (5)	FIRE HYDRANT INSTALLATION	EACH	3
627 (6)	FIRE HYDRANT RELOCATION	EACH	~~4~~ 1
627 (8)	1" WATER SERVICE	EACH	~~7~~ 8
627 (8a)	6" WATER SERVICE	EACH	~~5~~ 6
627 (9)	INSTALL 6 INCH GATE VALVE	EACH	~~6~~ 7
627 (10)	ADJUSTMENT OF VALVE BOXES	EACH	~~53~~ 60
627 (11)	AIR RELEASE VALVES	EACH	2
627 (12)	CONCRETE SEWER ENCASEMENT	L.F.	~~440~~ ~~0~~
639 (3)	DRIVEWAYS	EACH	~~45~~ 48
640 (1)	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D.
406 (1)	ASPHALT GRINDING	S.Y.	13,625

ESTIMATE OF QUANTITIES (ELECTRICAL/TELEPHONE/CABLE)

ITEM NO.	ITEM	UNIT	QUANTITY
641 (1)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTIGENT SUM	ALL REQ'D.
641 (2)	SILT FENCE	L.F.	~~1,000~~ 1080.5
641 (3)	HAY BALES	EACH	~~50~~ 10
642 (1)	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D.
642 (2)	THREE PERSON SURVEY PARTY	HOUR	~~10~~ 18.08
643 (2)	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D.
643 (3)	PERMANENT CONSTRUCTION SIGNING	L.S.	ALL REQ'D.
643 (4)	CONSTRUCTION SIGN	EA. PER DAY	4,000
643 (5)	TYPE II BARRICADE	EA. PER DAY	900
643 (6)	TYPE III BARRICADE	EA. PER DAY	120
643 (7)	TRAFFIC CONE	EA. PER DAY	15,000
643 (8)	DRUM	EA. PER DAY	10,250
643 (10)	SPECIAL CONSTRUCTION SIGN	SQ.FT.	36
643 (13)	TEMPORARY PAVEMENT MARKING	STATION	~~40~~ 34.5
643 (15)	FLAGGING	HOUR	8,000
643 (18)	WATERING	M-Gal	400
~~644 (1)~~	~~FIELD OFFICE~~	~~L.S.~~	~~ALL REQ'D.~~
~~644 (2)~~	~~FIELD LABORATORY~~	~~L.S.~~	~~ALL REQ'D.~~
511 (2)	SIDEWALK EXPANSION JOINT REPAIR	L.S.	ALL REQ'D.
644 (6)	ENGINEERING TRANSPORTATION	L.S.	ALL REQ'D.
645 (1)	TRAINING PROGRAM, 2 TRAINEES/APPRENTICES	LABOR/HR.	1,000
660 (1)	TRAFFIC SIGNAL SYSTEM, COMPLETE	L.S.	ALL REQ'D.
660 (3)	STREET LIGHTING SYSTEM, COMPLETE	L.S.	ALL REQ'D.
660 (6)	TRAFFIC COUNTER, COMPLETE	L.S.	ALL REQ'D
660 (11)	SCHOOL SIGNAL SYSTEM, COMPLETE	L.S.	ALL REQ'D.
661 (1)	LOAD CENTER, TYPE I	EACH	1
670 (6)	PREFORMED PAVEMENT MARKINGS	L.S.	ALL REQ'D.
670 (8)	RECESSED PAVEMENT MARKERS	EACH	124
~~680 (1)~~	~~REINFORCED EARTH RETAINING WALL~~	~~S.F.~~	~~1,612~~
681 (1)	ROCKERY WALL	S.Y.	~~570~~ 692.4
682 (1)	CONCRETE RETAINING WALL	S.F.	~~4,662~~ 3345.5
683 (1)	CONCRETE JERSEY BARRIER AND ANCHORS	L.F.	~~937.5~~ 975
691 (1)	UTILITY CONDUIT SYSTEM, COMPLETE	L.S.	ALL REQ'D
691 (2)	ELECTRICAL VAULTS	EACH	11
691 (3)	TELEPHONE VAULTS	EACH	6
692 (1)	ELECTRICAL TRANSFORMERS, COMPLETE	L.S.	ALL REQ'D
692 (2)	ELECTRICAL SWITCHING EQUIPMENT, COMPLETE	L.S.	ALL REQ'D
693 (1)	MV CABLE AND TERMINATIONS, COMPLETE	L.S.	ALL REQ'D.
693 (2)	SERVICE CABLE AND EQUIPMENT, COMPLETE	L.S.	ALL REQ'D
694 (1)	MODIFICATIONS & REMOVAL OH SYSTEM	L.S.	ALL REQ'D
511 (1)s	EXPANSION JOINTS	L.S.	ALL REQ'D.
603 (24)	STORM DRAIN CHANGES	L.S.	ALL REQ'D.
639 (6)	DUDS & SUDS GRADING	L.S.	ALL REQ'D.
639 (7)	DMV WHEELCHAIR RAMP	L.S.	ALL REQ'D.
608 (10)	ADA SIDEWALK REPAIR	L.S.	ALL REQ'D.
626 (1A)	H&SS SEWER SERVICE	L.S.	ALL REQ'D.
627 (2A)	H&SS WATER SERVICE	L.S.	ALL REQ'D.
627 (14)	WATER & SEWER CHANGES NO.2	L.S.	ALL REQ'D.
627 (15)	WATER & SEWER CHANGES NO.3	L.S.	ALL REQ'D.
642 (1)S	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D.
691 (1A)	UTILITY CONDUIT SYSTEM MODIFICATIONS	L.S.	ALL REQ'D.
691 (3A)	TELEPHONE VAULT MODIFICATIONS	L.S.	ALL REQ'D.

BASIS OF ESTIMATE

ITEM No.	ESTIMATING FACTOR
203(6)	1.80 TONS/C.Y.
301(1)	1.96 TONS/C.Y.
304(1)	1.82 TONS/C.Y.
401(1)	2.034 TONS/C.Y.
401(2)	6% OF 401(1)
402(2)	APPLICATION RATE: 0.10 GAL./S.Y., 253 GAL/TON

AS-BUILT
BY: B.A. DATE: 4-9-96

P:\SIT\70606#7\PLANSET\#07T3
R&M #921374/OT73.DWG/SCALE 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/23	P.S. & E. REVIEW CHANGES
BA	9/10/96	AS-BUILT

RECORD OF REVISIONS

FILE: O.S. 206-3

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ESTIMATE OF QUANTITIES

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 3 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

*SAWCUT & ASPHALT REMOVAL WIDTH MAY EXCEED 4.5'. WHERE 4.5' WIDTH IS EXCEEDED THE DEPTH OF ASPHALT REPLACED IN THE TRAVEL LANE SHALL NOT BE LESS THAN 3" THICK. ASPHALT AT THE SHOULDER SHALL BE AT LEAST 2" THICK. BASE COURSE AND SUBBASE SHALL BE SAME THICKNESS AS SHOWN IN TYPICAL SECTION II.

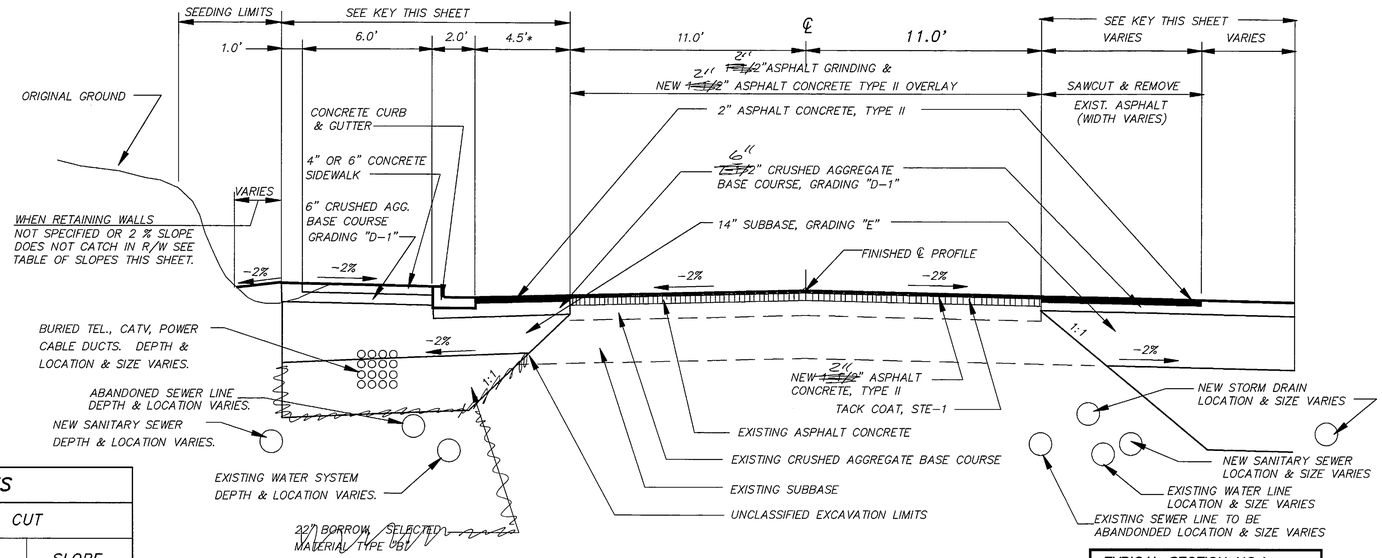


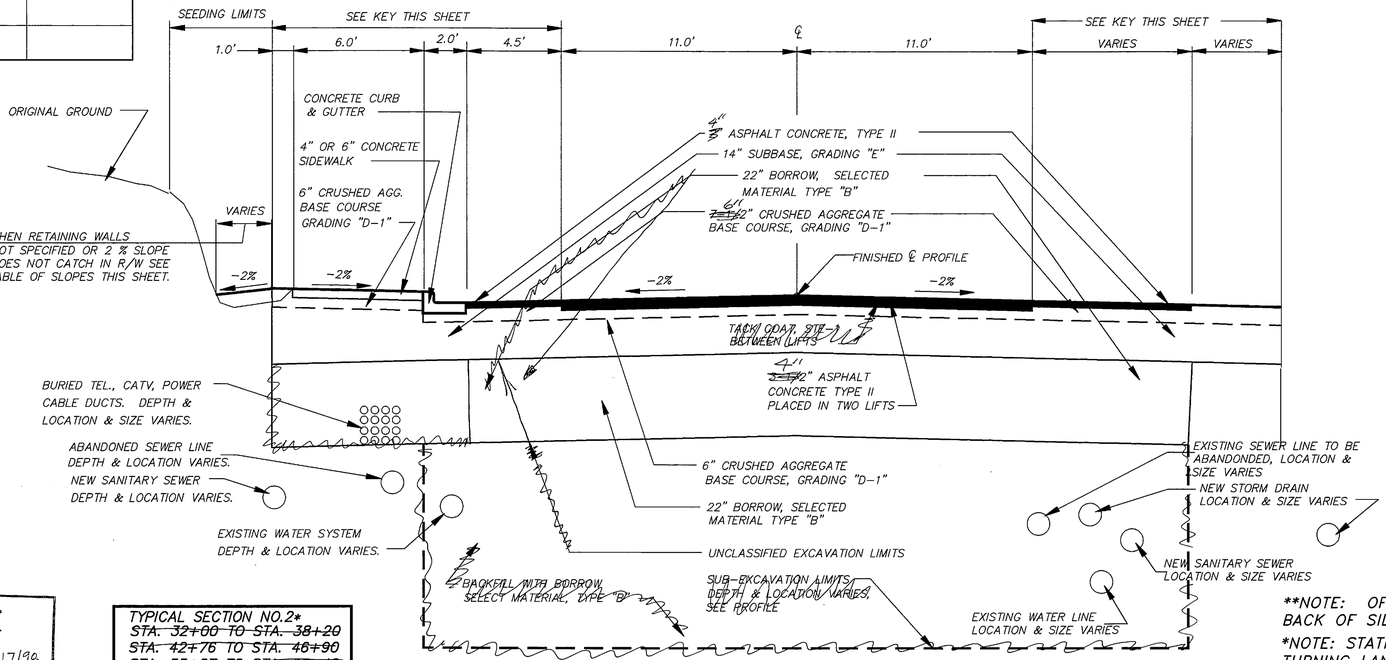
TABLE OF SLOPES			
FILL		CUT	
HEIGHT	SLOPE	HEIGHT	SLOPE
0'–5'	4:1	0'–15'+	1.5:1
5'–10'	3:1		
10'–15'	2:1		
15'+	1.5:1		

NOTE: ALL EXCAVATED PAY QUANTITIES DETERMINED FROM NEAT LINE MEASUREMENT.

TYPICAL SECTION No. 1

N.T.S.

TYPICAL SECTION NO.1*
~~STA. 24+35 TO STA. 32+00~~
~~STA. 38+20 TO STA. 41+94~~
~~STA. 46+90 TO 55+27~~
~~STA. 56+42 TO 64+00~~
40+00 TO 51+00



TYPICAL SECTION NO.2*
~~STA. 32+00 TO STA. 38+20~~
~~STA. 42+76 TO STA. 46+90~~
~~STA. 55+27 TO STA. 56+42~~
BOP – 4+00
51+00 – EOP

TYPICAL SECTION No.2

N.T.S.

AS-BUILT
BY: KK DATE: 3/17/98

P:\SIT\70606#94\PLANSET\$SITTYP.DWG
R&M #921374/SITTYP.DWG 1=20

KEY TO SHOULDER PATH/SIDEWALK/WALL

STATION START	STATION END	OFFSET** START	OFFSET** END	SHOULDER TREATMENT
22+74.4 BC	23+0.31 PT	44.38'R	9.56'R	SECTION I–I, SHEET 6 OF 106
23+0.31	23+92.63	9.56'R	21.17'R	SECTION I–I, SHEET 6 OF 106
23+92.63 PC	24+05.92 PT	21.17'R	22.02'R	SECTION I–I, SHEET 6 OF 106
24+05.92	24+23.18	22.02'R	22.02'R	SECTION I–I, SHEET 6 OF 106
24+23.18 PC	24+27.81 PT	22.02'R	23.22'R	SECTION I–I, SHEET 6 OF 106
24+27.81	24+46.72	23.22'R	33.44'R	SECTION I–I, SHEET 6 OF 106
24+46.72 PC	24+53.82 PT	33.44'R	34.52'R	SECTION I–I, SHEET 6 OF 106
24+53.82	25+00 PI	34.52'R	23.27'R	SECTION I–I, SHEET 6 OF 106
25+00	25+42.70 PI	23.27'R	24.97'R	SECTION I–I, SHEET 6 OF 106
25+42.70	26+00 PI	24.97'R	23.96'R	SECTION I–I, SHEET 6 OF 106
26+00	26+98.44	23.93'R	24.18'R	SECTION I–I, SHEET 6 OF 106
26+98.44 PC	27+1.51 PT	24.18'R	24.45'R	SECTION I–I, SHEET 6 OF 106
27+1.51	27+48.37	24.45'R	32.43'R	SECTION I–I, SHEET 6 OF 106
27+48.37 PC	27+51.5 PT	32.43'R	31.99'R	SECTION I–I, SHEET 6 OF 106
27+51.50	27+98.49	31.99'R	25.31'R	SECTION I–I, SHEET 6 OF 106
27+98.49 PC	28+1.43 PT	25.31'R	25.60'R	SECTION I–I, SHEET 6 OF 106
28+1.43	29+48.61	25.60'R	26.03'R	SECTION I–I, SHEET 6 OF 106
29+48.61 PC	29+50.86 PI	26.03'R	26.25'R	SECTION I–I, SHEET 6 OF 106
29+50.86	30+0.8 PI	26.25'R	29.45'R	SECTION I–I, SHEET 6 OF 106
30+0.8	30+49.84 PI	29.45'R	30.56'R	SECTION I–I, SHEET 6 OF 106
30+49.84	31+00 PI	30.56'R	32.58'R	SECTION I–I, SHEET 6 OF 106
31+00	31+48.16	32.58'R	41.57'R	SECTION I–I, SHEET 6 OF 106
31+48.16 PC	31+51.82 PT	41.57'R	41.64'R	SECTION I–I, SHEET 6 OF 106
31+51.82	32+00 PI	41.64'R	34.46'R	SECTION I–I, SHEET 6 OF 106
32+00	32+49.62	34.46'R	34.01'R	SECTION I–I, SHEET 6 OF 106
32+49.62	33+00 PI	34.01'R	34.36'R	SECTION I–I, SHEET 6 OF 106
33+00	34+00	33.00'R	29.93'R	SECTION I–I, SHEET 6 OF 106
34+00	34+49.44	29.67'R	24.75'R	SECTION K–K, SHEET 6 OF 106
34+49.44	42+55	24.75'R	29.67'R	SECTION K–K, SHEET 6 OF 106
42+55	45+44	29.67'R	29.67'R	SECTION F–F, SHEET 6 OF 106
45+44	47+17	29.67'R	29.67'R	SECTION G–G, SHEET 6 OF 106
47+17	47+20	29.67'R	29.67'R	SECTION G–G, SHEET 6 OF 106
47+20	49+47.50	29.67'R	29.67'R	SECTION B–B, SHEET 7 OF 106
49+47.50	50+37.84	29.67'R	29.67'R	SECTION G–G, SHEET 6 OF 106
50+37.84	50+97.58	29.67'R	29.67'R	SECTION F–F, SHEET 6 OF 106
50+97.58	51+60	29.67'R	29.67'R	SECTION G–G, SHEET 6 OF 106
51+60	52+86.72	29.67'R	29.67'R	SECTION F–F, SHEET 6 OF 106
52+86.72	53+72.96	29.67'R	29.67'R	SECTION G–G, SHEET 6 OF 106
53+72.96	59+82	29.67'R	29.67'R	SECTION F–F, SHEET 6 OF 106
59+82	60+62	29.67'R	29.67'R	SECTION G–G, SHEET 6 OF 106
60+62	61+48	29.67'R	29.67'R	SECTION F–F, SHEET 6 OF 106
23+69.4	45+75	23.5'L	29.0'L	SECTION K–K, SHEET 6 OF 106
45+75	51+41	29.0'L	84.0'L	SECTION E–E, SHEET 6 OF 106
51+41	53+00	84.0'L	29.0'L	SECTION J–J, SHEET 6 OF 106
53+00	53+82	51.0'L	44.0'L	SECTION A–A, SHEET 7 OF 106 SECTION J–J, SHEET 6 OF 106
53+82	59+47	44.0'L	29.0'L	SECTION K–K, SHEET 6 OF 106
59+47	60+20	47.49'L	47.49'L	SECTION D–D, SHEET 7 OF 106
60+20	60+82	29.67'L	29.67'L	SECTION K–K, SHEET 6 OF 106
60+82	62+02	29.67'L	29.67'L	SECTION G–G, SHEET 6 OF 106
62+02	64+00	29.0'L	23.5'L	SECTION K–K, SHEET 6 OF 106

**NOTE: OFFSET MEASURED TO BACK, TOP, RETAINING WALL OR BACK OF SIDEWALK WHERE RETAINING WALL IS NOT PROVIDED.

*NOTE: STATION 42+00 TO STATION 64+00 A CENTER 11'–0" TURNING LANE IS ADDED TO THE APPROPRIATE TYPICAL SECTION. (5'–6" EACH SIDE OF CENTERLINE)

AS-BUILT
BY: B.B. DATE: 4-8-96

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/19	P.S. & E. REVIEW CHANGES
KK BA	4/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
TYPICAL SECTIONS
TYPICAL SECTION No. 1 & No.2

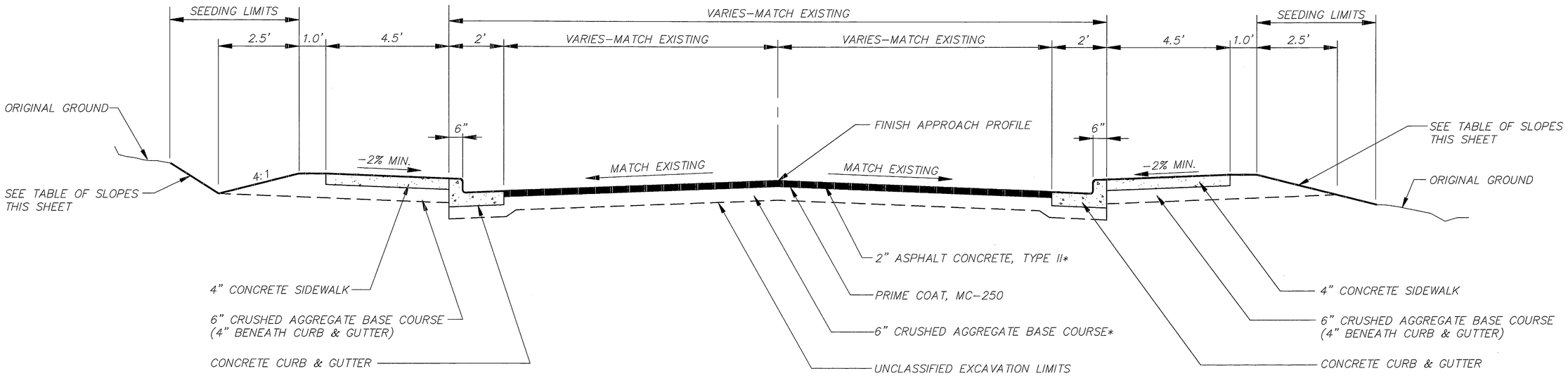
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 4 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Irvin George Porter
No. 1841–E
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206–4

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

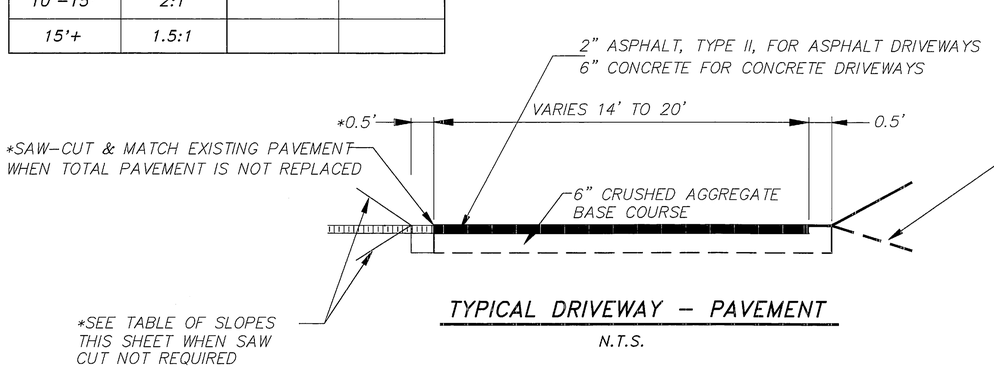


TYPICAL SECTION SIDE STREETS

N.T.S.

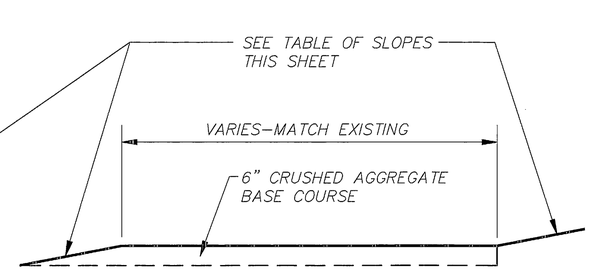
* THICKNESS SHOWN IS MINIMUM THICKNESS. MATCH EXISTING ASPHALT DEPTH AND CRUSHED AGGREGATE BASE COURSE IF EXISTING IS THICKER THAN MINIMUM SHOWN.

TABLE OF SLOPES			
FILL		CUT	
HEIGHT	SLOPE	HEIGHT	SLOPE
0'–5'	4:1	0'–15'+	1.5:1
5'–10'	3:1	ROCK	1/4:1
10'–15'	2:1		
15'+	1.5:1		



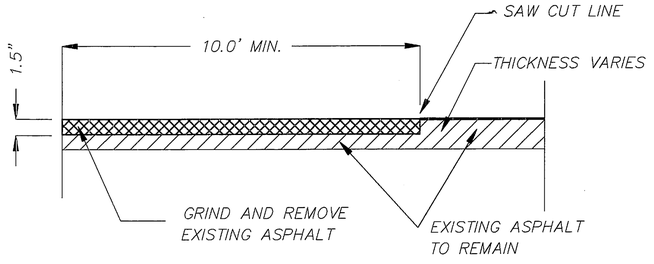
TYPICAL DRIVEWAY – PAVEMENT

N.T.S.



TYPICAL DRIVEWAY – GRAVEL

N.T.S.



ASPHALT GRINDING TRANSITION

N.T.S.

NOTES:

SEE MISCELLANEOUS SUMMARIES, SHEET 9 OF 106 FOR LOCATION DRIVEWAYS.
SEE ROADWAY CONSTRUCTION PLAN, SHEETS 23, 24, 25, & 26 FOR TYPE OF SURFACING.
SEE DRIVEWAY PROFILES, SHEET 49A AND 49B FOR CENTERLINE PROFILES.

AS-BUILT
BY: B.A. DATE: 4-9-96

P:\SIT\70606#94\PLANSET\# SITTYP3
R&M #921374/SITTYP3.DWG 1=20

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/19/94	P. S. & E. REVIEW COMMENT CHANGES.
K.K.BA	4/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
TYPICAL SECTIONS
TYPICAL SIDE STREETS & DRIVEWAYS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 5 OF 106

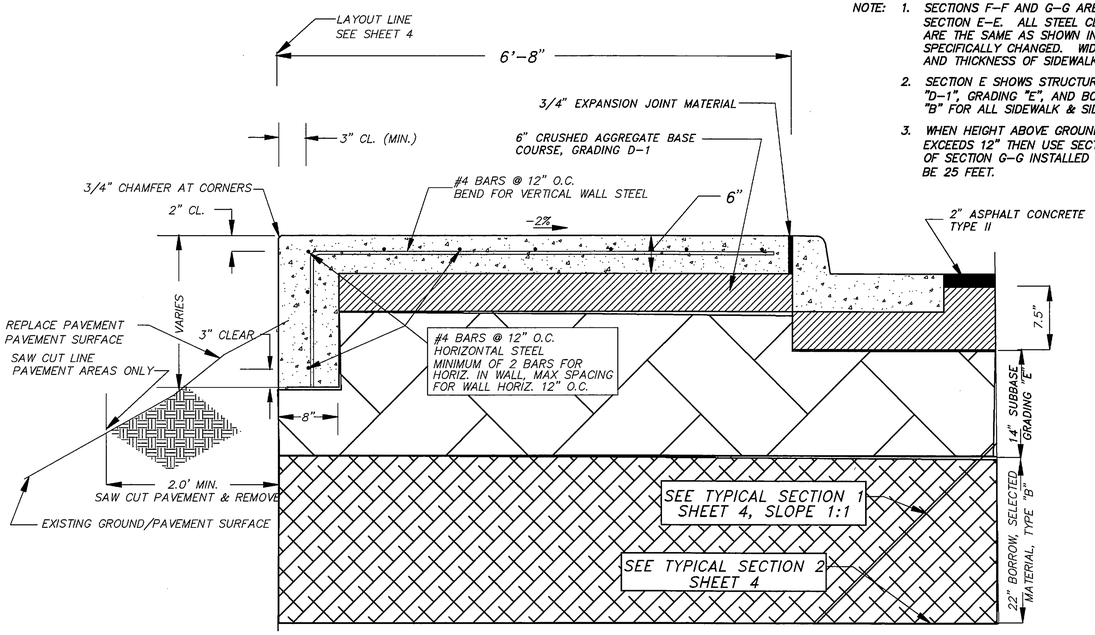
ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855–CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206–5

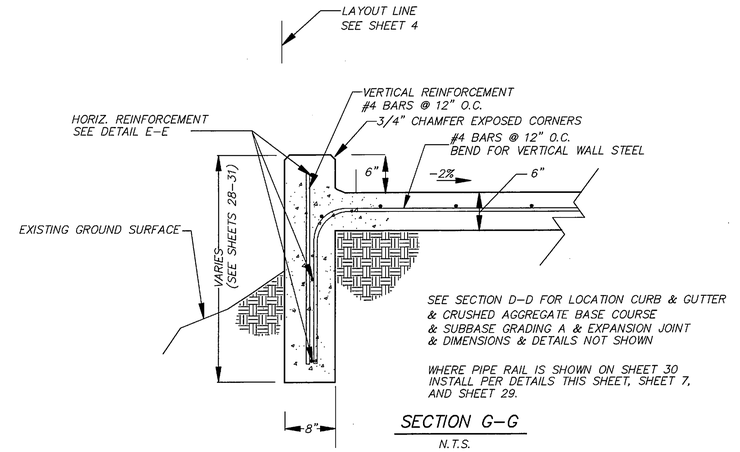
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

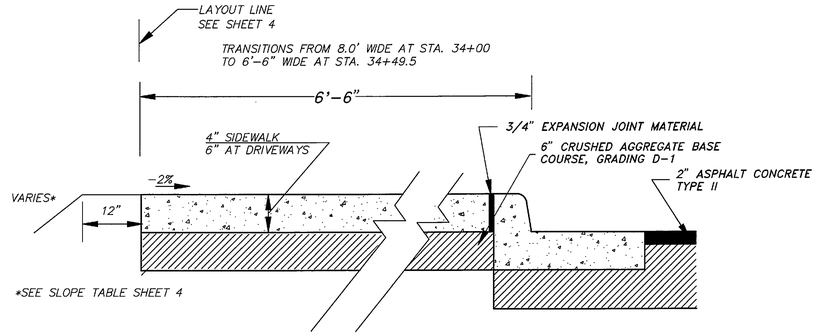
NOTE:
1. SECTIONS F–F AND G–G ARE VARIATIONS OF SECTION E–E. ALL STEEL CLEARANCES AND DIMENSIONS ARE THE SAME AS SHOWN IN SECTION E–E UNLESS SPECIFICALLY CHANGED. WIDTH OF SIDEWALK AND AND THICKNESS OF SIDEWALK IS SAME AS SECTION E–E.
2. SECTION E SHOWS STRUCTURAL SECTION FOR GRADING "D–1", GRADING "E", AND BORROW SELECTED MATERIAL "B" FOR ALL SIDEWALK & SIDEWALK/WALL SECTIONS.
3. WHEN HEIGHT ABOVE GROUND FOR WALL AT SECTION E–E EXCEEDS 12" THEN USE SECTION G–G. THE MINIMUM LENGTH OF SECTION G–G INSTALLED IN THIS CIRCUMSTANCE SHALL BE 25 FEET.



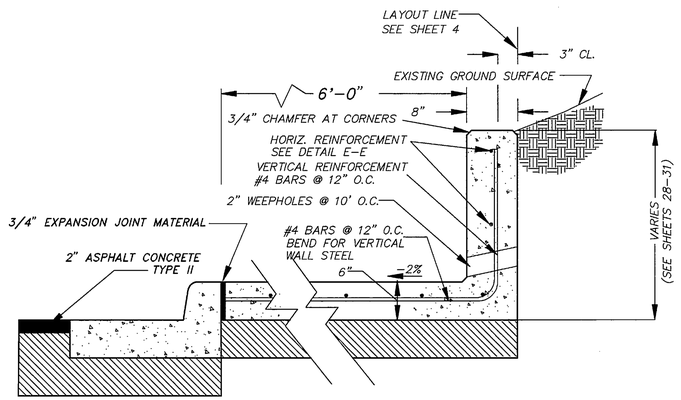
SECTION E–E
N.T.S.



SECTION G–G
N.T.S.

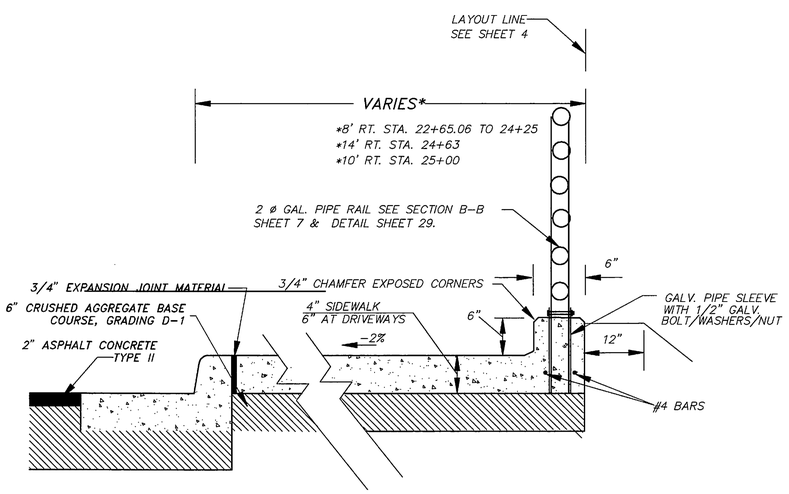


SECTION K–K
N.T.S.

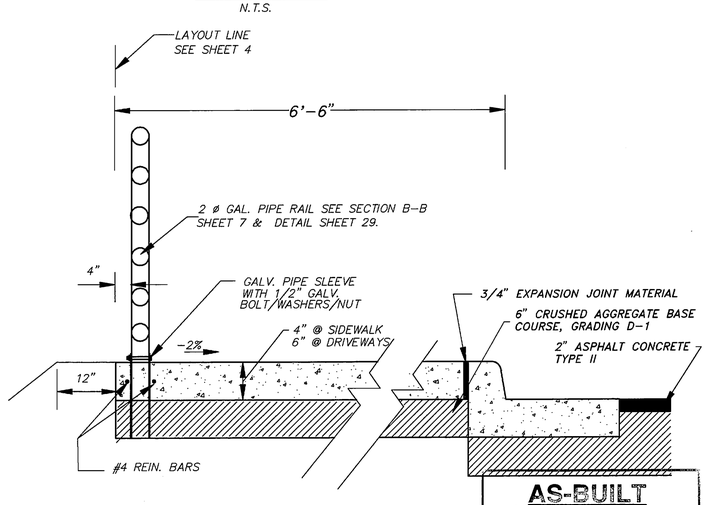


SECTION F–F
N.T.S.

NOTE: WHERE EXISTING GROUND SURFACE IS A PAVED SURFACE PAVEMENT REMOVED TO CONSTRUCT WALL WILL BE REPLACED TO MATCH THE EXISTING PAVEMENT INCLUDING THE BASE, AND SUBBASE IF ANY.



SECTION I–I
N.T.S.



SECTION J–J
N.T.S.

AS-BUILT
BY: B.A. DATE: 4-9-96

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E
REGISTERED PROFESSIONAL ENGINEER

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

P:\SIT\70606#94\PLANSET\$SITTYP1
R&M #921374/SITTYP1.DWG 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW CHANGES
KK/BA	4/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

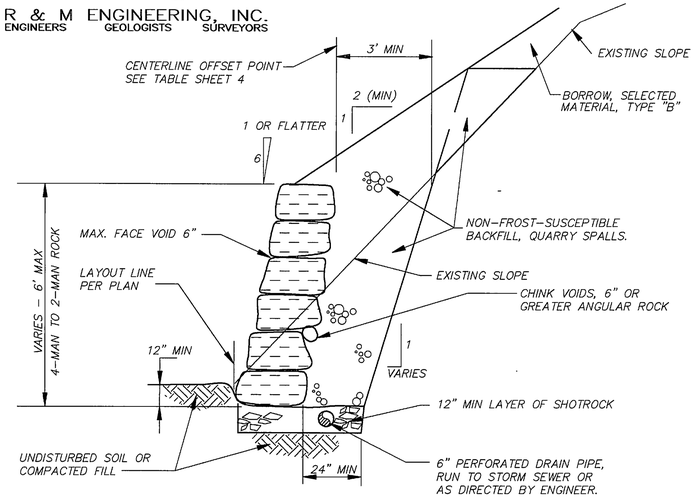
SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
SIDEWALK & COMBINED WALL/SIDEWALK
TYPICAL SECTIONS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ M.L.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 6 OF 106

FILE: O.S. 206–6

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



A-A TYPICAL ROCKERY WALL
N.T.S AT KATLIEN

ROCKERY WALL NOTES

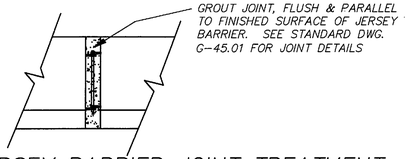
1. THE LONG DIMENSION OF THE ROCKS SHALL EXTEND INTO THE EARTH TO PROVIDE MAXIMUM STABILITY.
2. THE ROCK SHALL BE PLACED SO AS TO LOCK INTO TWO ROCKS IN THE TIER.
3. 2 MAN ROCKS 300 POUNDS MIN., 800 POUNDS MAX., SIZED 13" TO 18"
   3 MAN ROCKS 800 POUNDS MIN., 1,500 POUNDS MAX., SIZED 18" TO 24"
   4 MAN ROCKS 1,500 POUNDS MIN., 2,100 POUNDS MAX., SIZED 24" TO 32"
4. ROCK WALLS SHALL BE CONSTRUCTED OF 4 MAN TO 2 MAN ROCKS FROM BOTTOM TO TOP.
5. QUARRY SPALLS ARE CLEAN SHOT ROCK, MAXIMUM SIZE OF 6" WITH NO MATERIAL PASSING THE NO. 4 SIEVE.
6. THE MINIMUM SIZE OPENINGS IN THE FILTER FABRIC SHALL BE U.S. STANDARD SIEVE NO. 100.

EARTH-REINFORCED WALL CONSTRUCTION NOTES

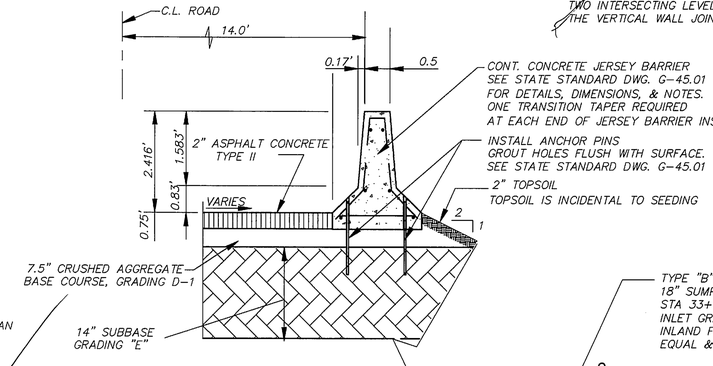
1. SOIL PLACEMENT IS TO BE IN LIFTS NOT EXCEEDING 12 INCHES IN HEIGHT AND COMPATIBLE WITH THE COMPACTION EQUIPMENT TO ACHIEVE A UNIFORM MINIMUM DENSITY OF 95% OF MODIFIED PROCTOR OPTIMUM DENSITY (ASTM D 1557). INSURE THAT A MINIMUM DEPTH OF 6" OF FILL COVERS THE GEO-GRID BEFORE COMPACTING.
2. FOUNDATION SOILS SHOULD BE COMPACTED TO MEET THE ABOVE REQUIREMENTS PRIOR TO PLACING CONTINUOUS CONCRETE LEVELING PAD.
3. GEO-GRID MUST BE TENSIONED PRIOR TO PLACING FILL.
4. BATTER WALL FACE (MAX): 8 BACKWARDS (TOWARD FILL) UNLESS OTHERWISE NOTED.
5. GEO-GRID TYPE, SPACING, AND LENGTH FOR EACH SIZE OF WALL TO BE AS SHOWN ON THE PANEL SUMMARIES ON SHEET 30.
6. CONNECTION BAR TO BE 1/2" NOMINAL DIAMETER SCH. 80 PIPE.
7. CONCRETE COMPRESSION STRENGTH TO BE 4,000 P.S.I. MINIMUM AT 28 DAYS.
8. REINFORCEMENT FOR PRE-CAST CONCRETE PANELS TO BE NO. 4 BAR VERTICAL AND HORIZONTAL AT ALL THICKENED RIB SECTIONS, W1.4xW1.4/6x6 W.W.F. CONTINUOUS THROUGHOUT PANEL.
9. AT ALL WALL ANGLE POINTS WITH UNIFORM TOP OF LEVELING PAD, THE CONTRACTOR HAS THE OPTION OF INSTALLING THE LEVELING PAD SO AS TO ALLOW THE RETURN WALL TO BEAR ON THE EXTENDED LEVELING PAD OR THE TWO INTERSECTING LEVELING PADS AND WALL MAY BE METERED AT A 45° ANGLE. THE VERTICAL WALL JOINT DETAIL SHALL BE USED IN EITHER CASE.

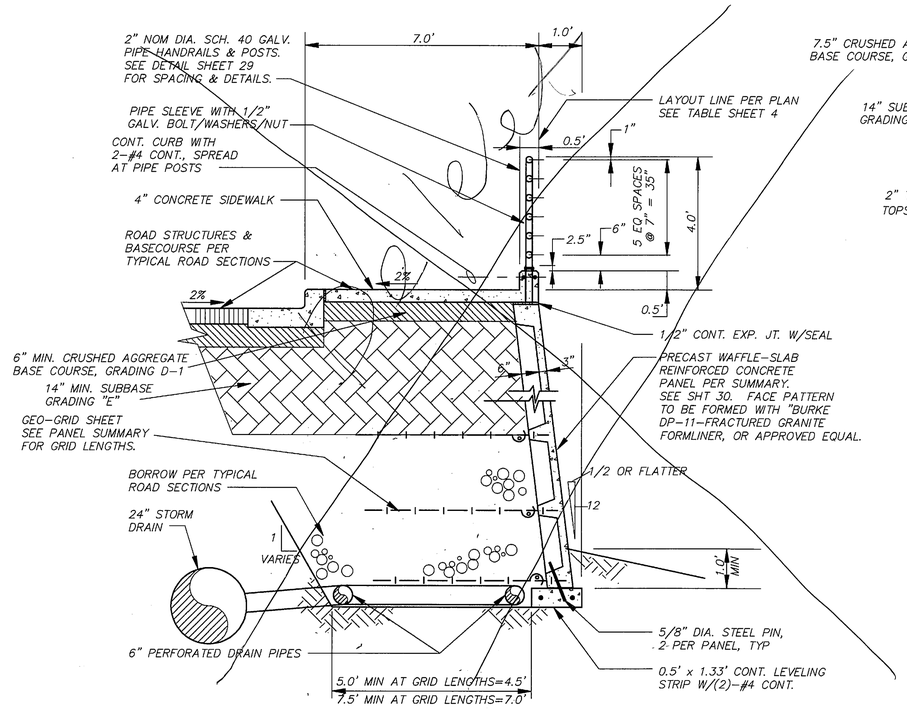
CONCRETE RETAINING WALL CONSTRUCTION NOTES

1. BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1:
   #3 GRADE 40
   #4 AND LARGER: GRADE 60
2. VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED ON THE DETAILS.
3. CONSTRUCTION JOINTS SHALL BE ADEQUATELY KEYED. THEIR LOCATIONS AND DETAILS, WHEN NOT SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
4. CONCRETE PLACEMENTS SHALL BE CONTINUOUS BETWEEN CONSTRUCTION JOINTS.
5. UNLESS SHOWN OTHERWISE ON THE PLANS, THE MAXIMUM DISTANCE BETWEEN CONSTRUCTION, WEAKENED PLANE, OR EXPANSION JOINTS SHALL BE 10'. JOINTS WHERE POSSIBLE SHOULD MATCH JOINTS IN SIDEWALK.



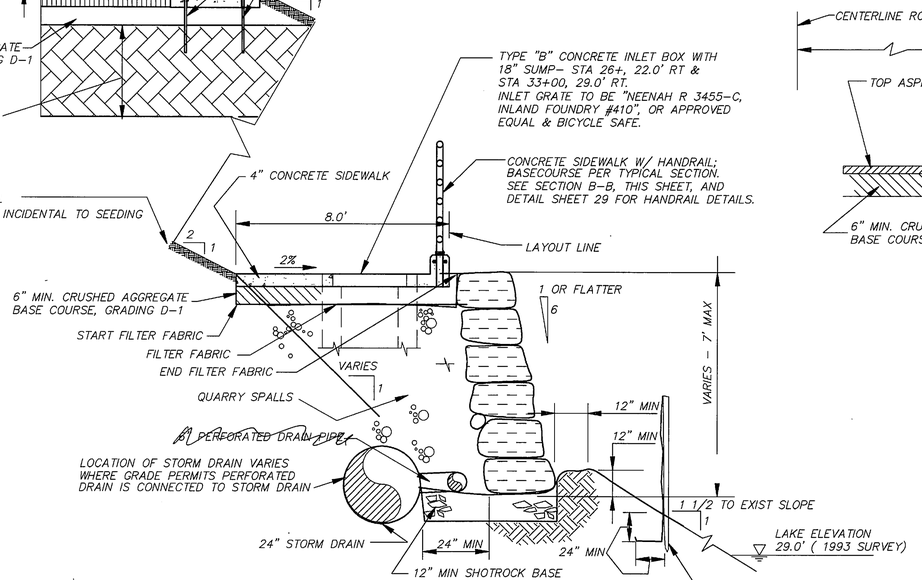
C-1 JERSEY BARRIER JOINT TREATMENT
N.T.S.





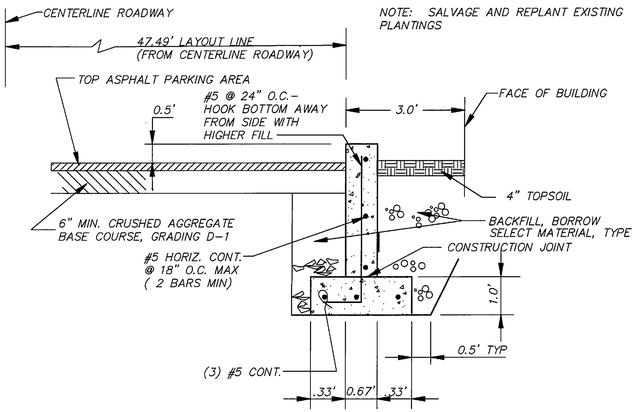
B-B EARTH-REINFORCED PRECAST WALL
N.T.S

P:\GIT\70606\R&M PLANSET\SITDET1A
R&M #921374/SITDET1A.DWG 1:20



NOTE: FOR ROCKERY WALL CALLOUTS NOT SHOWN SEE SECTION A-A

C-C WALLS @ LAKE
N.T.S



NOTE: SALVAGE AND REPLANT EXISTING PLANTINGS

D-D TYPICAL CONCRETE RETAINING WALL
N.T.S

AS-BUILT
BY: B.A. DATE: 4-7-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/8/94	PS & E REVIEW COMMENTS
KK & BA	4/17/96	AS-BUILT W/ CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

RETAINING WALLS
TYPICAL SECTIONS & DETAILS

DESIGNED BY: K.J.W./G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ K.J.W.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 7 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-7

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606/NH 099	1994

CURB CUT SUMMARY

STATION	OFFSET LT.	OFFSET RT.	CURB CUT TYPE*	REMARKS
"0"23+82	21.2		IV	CURB CUT & GUTTER TAPER @ ERLER STREET (LT)
"0"24+26	23.7		III	CURB CUT & GUTTER @ ERLER STREET (RT)
"0"34+72	25.1		IV	CURB CUT & GUTTER TAPER @ SPRUCE STREET (LT)
"0"34+91	43.6		VI	CURB RAMP @ SPRUCE STREET (LT)
"0"35+60	41		IV	CURB CUT & GUTTER TAPER @ NEW ARCHANGEL (RT)
"0"38+31	25.1		III	CURB CUT & GUTTER TAPER @ MARINE ST. (LT)
"0"38+78	25.1		IV	CURB CUT & GUTTER TAPER @ OSPREY STREET (RT)
"0"39+20		21.6	IV	CURB CUT & GUTTER TAPER @ S. LAKEVIEW (RT)
"0"39+49		22.2	IV	CURB CUT & GUTTER TAPER @ S. LAKEVIEW (LT)
"0"39+50	15.5		III	CURB CUT & GUTTER TAPER @ HALIBUT POINT ROAD (LT)
"0"41+66		21.1	IV	CURB CUT & GUTTER TAPER @ CRABAPPLE (RT)
"0"42+02		21.6	IV	CURB CUT & GUTTER TAPER @ CRABAPPLE (RT)
"0"45+58		27.2	IV	CURB CUT & GUTTER TAPER @ N. LAKEVIEW DRIVE (LT)
"0"45+91		26.7	IV	CURB CUT & GUTTER TAPER @ N. LAKEVIEW DRIVE (RT)
"0"51+43	41.9		III	CURB CUT @ KATLIAN (LT)
"0"52+00		38.8	IV	CURB CUT & GUTTER TAPER @ MOLLER DRIVE (LT.)
"0"52+21	42.6		III	CURB CUT @ KATLIAN (RT)
"0"52+50		29.7	IV	CURB CUT & GUTTER TAPER @ MOLLER DRIVE (RT)
"0"58+66		26.5	III	CURB CUT @ BRADY STREET (LT)
"0"59+14		26.3	III	CURB CUT @ BRADY STREET (RT)
"0"59+46		21.0	III	CURB CUT & GUTTER TAPER @ HALIBUT POINT ROAD (RT)
"0"62+25	21.0		III	CURB CUT & GUTTER TAPER @ HALIBUT POINT ROAD (LT)
"0"62+26		26.7	III	CURB CUT @ PETERSON AVE. (LT)
"0"62+76		27.0	III	CURB CUT @ PETERSON AVE. (RT)

*SEE DETAIL SHEET 14

STREET APPROACH SUMMARY

STATION	OFFSET* LT.	OFFSET* RT.	WIDTH**	REMARKS
"0"24+23	46.5		22'	ERLER STREET
"0"34+80	45.4		22'	SPRUCE STREET, NO CURB & GUTTER ON LEFT
"0"35+56	50		20'	NEW ARCHANGEL STREET
"0"38+48	42.9		48'	OSPREY STREET & MARINE STREET
"0"39+36		38.2	20'	S. LAKEVIEW DRIVE
"0"41+85		39.0	21'	CRABAPPLE DRIVE
"0"45+73		42.8	20'	N. LAKEVIEW DRIVE
"0"51+72	81.5		48'	KATLIAN
"0"52+29		73.8	31'	MOLLER DRIVE
"0"58+90		39.8	40'	BRADY STREET
"0"62+49		41.5	38'	PETERSON AVENUE

*OFFSET TO CENTER LINE OF EXISTING PAVEMENT
**EXISTING PAVEMENT WIDTH

RECONSTRUCTED FENCE SUMMARY

LOCATION FROM STATION	LOCATION TO STATION	LENGTH	REMARKS
~~24+69.5, 27' LT~~	~~25+07, 28' LT.~~	~~37'~~	~~WOODEN FENCE~~
~~24+52, 41' LT~~	~~25+70, 27' LT.~~	~~24'~~	~~WOODEN FENCE~~
~~25+38, 28' LT.~~	~~26+40, 26.5' LT.~~	~~102'~~	~~WOODEN FENCE~~
~~42+09, 34' RT.~~	~~42+71, 35' RT.~~	~~60'~~	~~CHAIN LINK FENCE~~
44+29, 60' RT.	44+39, 30' RT.	~~30'~~ 8'	WOODEN FENCE
~~52+68, 34' RT.~~	~~53+43, 33' RT.~~	~~75'~~	~~CHAIN LINK FENCE~~
59+92, 31.5' RT.	60+32, 34' RT.	~~40'~~ 47'	CHAIN LINK FENCE

WATER MAIN RELOCATION SUMMARY

STATION	OFFSET	REMARK
23+90	17'LT	SEE DETAIL SHEET 43
24+16	25'LT	
34+88	23'LT	
35+11	22'LT	
38+00	14'LT	
38+40	42'LT	
39+40	13'RT	
39+53	14'RT	
41+92	26'RT	
42+32	14'LT	
45+78	29'RT	
49+24	8'LT	
50+85	8'LT	
52+00	20'RT	
52+65	30'RT	
53+28	25'RT	
54+14.5	25'RT	
55+20	25'RT	
56+53	26'RT	
57+27	26'RT	
57+69	12'RT	SEE DETAIL SHEET 43
60+31	26'RT	

MANHOLE REMOVAL SUMMARY

STATION	OFFSET	REMARK
23+78	1.5'RT	REMOVE & DISPOSE
26+00	0'RT	
30+77	12'RT	
34+29	33'LT	
34+89	7'RT	
35+63	45'LT	
39+28	7'RT	
41+75	13'RT	
43+83	12'RT	
45+79	9'RT	
47+93	16'RT	
52+03	11'RT	
55+11	14'RT	
57+15	11'RT	
57+31	19'RT	
58+63	12'RT	
62+51	11'RT	
"S"11+72	8'RT	REMOVE & DISPOSE
"C"~~11~~12+08	11'RT	

REMOVAL OF STRUCTURES & OBSTRUCTIONS

LOCATION FROM STATION	LOCATION TO STATION	REMARK
24+39, 27.5'LT	24+52, 42'LT	REMOVE EXISTING
24+39, 27.5'LT	24+70, 27'LT	FENCE
~~41+92, 10'LT~~	~~41+92, 70'RT~~	~~EXISTING 4" PIPE~~
59+70, 47.5'LT		REMOVE STAIRS
61+05, 24'LT		REMOVE STAIRS
27+50 LT	33+50 LT	REMOVE 8" UNDERDRAIN
~~28+30 LT~~		REMOVE MAILBOX PAD

VALVE BOX ADJUSTMENT

STATION	OFFSET
34+67	30' LT
36+65	29' RT
38+46	42' LT
45+30	20' LT
48+00	LT
56+05	29' RT
60+30	29' RT
61+29	29' RT
60+80	LT
63+90	RT
HESS BUILDING	
MOLLER REST ROOM/CONCESSION	
SPRUCE ST.	
SPRUCE ST.	

VALVE BOX ADJUSTMENT SUMMARY

STATION	OFFSET	ADJUST	REMARKS
"0"23+90	21.0' LT	X	ADJUST ERLER STREET INTERSECTION
"0"26+65	24.0' LT	X	
"0"27+86	24.0' LT	X	
"0"28+60	23.0' LT	X	
~~"0"30+96~~	~~15.0' LT~~	~~X~~	~~AIR RELEASE VALVE/VAULT~~ NEW AIR RELEASE
~~"0"32+74~~	~~22.0' LT~~	~~X~~	
"0"34+67	6.0' LT	X	
"0"34+95	11.0' LT	X	
"0"34+97	15.0' LT	X	
~~"0"35+42~~	~~64.0' LT~~	~~X~~	
"0"35+69	26.0' RT	X	
"0"38+46	40.0' LT	X	ADJUSTMENT MARINE AND OSPREY STREETS INTERSECTION
"0"38+56	15.0' LT	X	
"0"39+02	23.0' LT	X	
"0"39+40	12.5' LT	X	
~~"0"40+34~~	~~16.0' LT~~	~~X~~	NEW AIR RELEASE
"0"41+90	13.0' LT	X	
~~"0"41+92~~	~~13.0' LT~~	~~X~~	
"0"41+92	20.0' LT	X	
"0"42+52	23.0' LT	X	
"0"43+14	29.0' RT	X	
"0"44+00	26.0' RT	X	
"0"44+70	21.0' LT	X	
"0"45+23	16.0' LT	X	
"0"45+28	21.0' LT	X	
"0"45+90	14.0' LT	X	
"0"46+77	7.0' LT	X	
"0"49+30	10.0' LT	X	
"0"50+54	29.5' LT	X	
"0"50+57	29.0' LT	X	
~~"0"50+97~~	~~30.0' LT~~	~~X~~	~~BEHIND CONCRETE RETAINING WALL~~
"0"51+38	19.0' LT	X	ADJUSTMENT KATLIAN AVENUE INTERSECTION
"0"51+67	57.0' LT	X	ADJUSTMENT KATLIAN AVENUE INTERSECTION
"0"51+83	9.0' LT	X	ADJUSTMENT KATLIAN AVENUE INTERSECTION
"0"52+00	27.0' RT	X	
"0"52+02	23.0' RT	X	ADJUSTMENT MOLLER STREET INTERSECTION
"0"52+06	26.0' RT	X	
"0"53+45	31.0' RT	X	
"0"54+28	29.0' RT	X	
"0"55+80	20.0' RT	X	
"0"57+19	38.0' RT	X	
"0"57+42	28.0' RT	X	
"0"57+69	29.0' LT	X	
~~"0"58+66~~	~~52.0' RT~~	~~X~~	
"0"58+67	12.0' RT	X	
"0"58+79	26.0' RT	X	ADJUSTMENT BRADY STREET INTERSECTION
"0"58+82	24.0' RT	X	ADJUSTMENT BRADY STREET INTERSECTION
"0"59+29	26.0' LT	X	
"0"61+62	30.0' RT	X	
"0"62+39	27.0' RT	X	
"0"62+41	25.0' LT	X	
"0"63+83	23.0' LT	X	
"0"63+89	22.5' LT	X	

FIRE HYDRANT ADJUSTMENT SUMMARY

STATION	OFFSET	ADJUST	REMARKS
~~44+70~~	~~28.0' LT~~	~~X~~	
~~581+37~~	~~48.0' LT~~	~~X~~	
~~56+05~~	~~29.5' RT~~	~~X~~	
~~61+27~~	~~29.0' RT~~	~~X~~	
34+54	43.0' LT	RELOCATE	

AS-BUILT
BY: B. A. DATE: 4-9-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606#94\PLANSHEET\$MISCSUM
R&M #921374/MISC-SUM.DWG/SCALE 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
BA & KK	9/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: O.S. 206-8

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MISCELLANEOUS SUMMARIES

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 8 OF 106

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

CULVERT PIPE INSTALLATION SUMMARY

PIPE	DIAMETER	LENGTH	FROM STRUCTURE	FROM INVERT	TO STRUCTURE/STATION	TO INVERT	REMARKS
P-1	24"	45'	S-1	28.23	39.5'RT STA. 23+20	28.07	OUTFALL STORM DRAIN, HDPE
P-2	24"	69'	S-1	28.33	S-4	28.60	NEW STORM DRAIN, HDPE
P-3	24"	~~34~~' 36'	S-4	29.90	S-3	28.70	NEW CROSS STORM DRAIN
P-4	24"	~~19~~' 21'	S-3	31.00	S-2	31.59	NEW STORM DRAIN
P-5	24"	142'	S-4	28.70	S-7	29.25	NEW STORM DRAIN, HDPE
P-6	24"	16'	S-6	30.90	S-5	30.15	NEW STORM DRAIN
P-7	24"	~~28~~' 30'	S-7	30.05	S-6	29.45	NEW CROSS STORM DRAIN
P-8	24"	39'	S-7	29.35	S-8	29.46	NEW STORM DRAIN, HDPE
P-9	24"	149'	S-8	29.50	S-9	30.14	NEW STORM DRAIN, HDPE
P-10	24"	~~12~~' 11'	S-9	30.14	S-10	31.14	NEW CROSS STORM DRAIN
P-11	24"	~~29~~' 31'	S-10	31.24	S-11	33.90	NEW CROSS STORM DRAIN
P-12	24"	196'	S-9	30.24	S-12	31.00	NEW STORM DRAIN, HDPE
P-13	24"	177'	S-12	31.10	S-13	31.80	NEW STORM DRAIN, HDPE
P-14	24"	192'	S-13	31.90	S-14	32.65	NEW STORM DRAIN, HDPE
P-15	24"	53'	S-14	32.75	S-15	32.96	NEW STORM DRAIN, HDPE
P-16	24"	~~31~~' 29'	S-15	33.06	S-16	35.51	NEW CROSS STORM DRAIN
P-17	24"	145'	S-15	33.06	S-17	36.78	NEW STORM DRAIN
P-18	24"	~~51~~' 45'	S-17	36.88	S-18	43.25	NEW CROSS STORM DRAIN
~~P-18A~~	~~24"~~	~~12'~~	~~S-18A~~	~~45.0~~	~~15'LT STA. "S"12+07~~	~~45.12~~	~~NEW CROSS STORM DRAIN~~
P-18B	24"	~~32~~' 37'	S-18A	45.0	24'RT STA. "S"11+99	44.6	NEW CROSS STORM DRAIN
P-19	24"	~~61.5~~' 68'	S-18	43.35	S-19	43.90	NEW STORM DRAIN
P-20	24"	~~170~~' 122'	S-17	41.40	S-20	42.40	NEW STORM DRAIN
P-21	24"	251'	S-19	44.00	S-21A	53.28	NEW STORM DRAIN
~~P-22~~	~~24"~~	~~30'~~	~~S-21~~	~~55.54~~	~~S-22~~	~~54.49~~	~~NEW STORM DRAIN~~
P-23	24"	~~34~~' 30'	S-21A	53.38	S-23	53.70	NEW STORM DRAIN
P-24	24"	~~65.5~~' 42'	S-~~21A~~ 23	53.38	S-21	55.53	NEW STORM DRAIN
P-25	~~24~~" 12"	~~26~~' 70'	S-~~24~~ 2.5	55.10	~~10'RT STA. 39+45~~ ~~63.7'RT STA. 39+17~~	54.88	NEW STORM DRAIN EXTENSION
P-26	~~24~~" 18"	~~40~~' 28'	S-24	55.60	S-25	55.20	NEW STORM DRAIN
P-27	24"	~~22~~' 27'	S-25	54.88	S-26	55.10	NEW STORM DRAIN
P-27A	24"	~~193~~' 183'	3-26	54.78	S-27	56.3	NEW STORM DRAIN
P-28	24"	24'	S-27	56.30	S-28	56.54	NEW STORM DRAIN
P-29	24"	~~29~~' 55'	S-~~28~~ 30	56.64	S-~~29~~ 27	56.93	NEW STORM DRAIN
P-30	24"	~~124~~' 18'	S-~~27~~ 29	56.20	S-30	54.21	NEW STORM DRAIN
P-31	24"	~~82~~' 150'	S-30 42+11 RT	54.11	S-31 43+66	52.80	NEW STORM DRAIN
P-32	24"	~~174~~' 175'	S-31	52.70	S-32	50.96	NEW STORM DRAIN
P-33	~~24~~" 18"	~~13~~' 26'	3-32	51.06	~~S-33~~ DAYLIGHT	51.19	NEW STORM DRAIN
P-34	~~24~~" 12"	~~43~~' 11'	S-~~33~~ 34	51.29	~~S-34~~ P-35	51.72	NEW STORM DRAIN
P-35	24"	~~259~~'261'	S-32	50.86	S-35	48.10	NEW STORM DRAIN
P-35A	~~24~~" 18"	~~10~~' 20'	S-35	43.81	30'LT STA. 48+05	43.73	NEW STORM DRAIN
P-36	24"	~~45~~' 43'	S-35	43.71	S-36	43.26	NEW CROSS STORM DRAIN
~~P-37~~	~~24"~~	~~56'~~	~~S-37~~	~~40.29~~	~~S-38~~	~~37.28~~	~~NEW CROSS STORM DRAIN~~
P-38	~~24~~" 12"	~~8~~' 23'	S-~~38~~ 40	37.18	S-~~39~~ 37	37.26	NEW STORM DRAIN
P-39	24"	~~58~~' 72'	S-~~39~~ 37	37.08	S-~~41~~ 38	36.50	NEW STORM DRAIN
~~P-40~~	~~24"~~	~~35'~~	~~S-40~~	~~42.21~~	~~S-41~~	~~36.50~~	~~NEW STORM DRAIN~~
P-41	24"	~~116~~' 124'	S-~~41~~ 38	36.40	S-43	30.46	NEW STORM DRAIN
P-42	24"	~~8~~' 11'	S-43	32.57	S-42	32.67	NEW STORM DRAIN
P-43	24"	~~130~~' 134.5'	S-44	28.56	S-45	32.46	NEW STORM DRAIN
P-44	24"	~~201~~' 150'	S-43	32.36	S-46	28.66	NEW STORM DRAIN
P-45	24"	~~45~~' 47'	S-46	27.55	S-45	26.38	NEW CROSS STORM DRAIN
P-45A	24"	73'	S-46A	28.56	S-46	25.88	NEW CROSS STORM DRAIN
P-46	24"	12'	S-47	18.77	S-48	18.94	NEW STORM DRAIN
P-47	24"	41'	S-47	18.67	S-49	18.39	NEW STORM DRAIN
P-48	24"	~~146~~' 97'	S-49	18.29	S-50	16.40	NEW STORM DRAIN
P-48A	24"	~~63~~' 42'	S-49	18.39	S-49A	18.70	NEW CROSS STORM DRAIN
P-49	24"	~~65~~' 63'	S-50	16.50	S-51	19.56	NEW CROSS STORM DRAIN
~~P-50~~	~~24"~~	~~12'~~	~~S-51~~	~~19.66~~	~~S-52~~	~~19.76~~	~~NEW STORM DRAIN~~
P-51	~~24~~" 18"	~~177~~' 173'	S-50	16.50	S-53	22.14	NEW STORM DRAIN
P-52	24"	~~81~~' 43'	S-53	22.34	S-54	25.00	NEW CROSS STORM DRAIN
P-53	24"	~~75~~' 77'	S-53	22.24	S-55	24.72	NEW STORM DRAIN
P-54	24"	16'	S-55	24.82	S-56	24.97	NEW STORM DRAIN
P-16A	24"	13	S-16		S-16A		
P-48B	24"	82	S-NEW		S-48		

R&M #921374/MIS-SUM2.DWG/SCALE 1:20 P:\SIT\70606\PLANSET\MISSUM2

DRAINAGE STRUCTURE INSTALLATION SUMMARY

STRUCTURE	STATION	OFFSET	SUMP ELEV.	TYPE A OR B	CURB OR FIELD INLET	
S-1	23+~~52~~62	12.8'RT	26.73	TYPE B	CURB INLET	W/OIL SEPARATOR
S-2	24+40	35.5'LT	30.09	TYPE B	FIELD INLET	
S-3	24+39	16.3'LT	27.20	TYPE B	CURB INLET	
S-4	24+21	12.8'RT	26.83	TYPE B	CURB INLET	
~~P-5~~	~~25+73~~	~~28.8'LT~~ 2.0L	~~26.69~~	~~TYPE B~~	~~FIELD INLET~~	HEADWALL
S-6	25+64	16.3'LT	29.55	TYPE B	CURB INLET	
S-7	25+63	12.5'RT	27.75	TYPE B	CURB INLET	
S-8	26+00	23.2'RT	27.85	TYPE ~~A~~B	CURB INLET	
S-9	27+49	24.5'RT	28.64	TYPE B	CURB INLET	
S-10	27+49	12.8'RT	29.64	TYPE B	CURB INLET	
S-11	27+52	16.3'LT	32.40	TYPE B	CURB INLET	
~~S-12~~	~~29+4450~~	~~24.8'RT~~	~~29.51~~	~~TYPE A~~B	~~CURB INLET~~	
S-13	31+17	39.1'RT	30.30	TYPE ~~A~~B	FIELD INLET	
S-14	33+03	36.4'RT	31.15	TYPE ~~A~~B	CURB INLET	
S-15	33+51	12.8'RT	31.46	TYPE B	CURB INLET	
S-16	33+51	16.3'LT	34.01	TYPE ~~B~~A	CURB INLET	
S-17	34+96	16.3'RT	35.28	TYPE B	CURB INLET	
S-18	35+13.14	30~~32~~.3'LT	42.40	TYPE ~~A~~B	FIELD INLET	
~~S-18A~~	~~"S"11+98~~	~~7'LT~~	~~43.6~~	~~TYPE B~~	~~FIELD INLET~~	
S-19	35+72.50	33.4'LT	40.00	TYPE ~~A~~B	CURB INLET	
S-20	36+68	16.3'RT	40.90	TYPE B	CURB INLET	
S-21	38+81	47.1'LT	54.03	TYPE B	FIELD INLET	
S-21A	38+16.70	31.86'LT	51.78	TYPE B	FIELD INLET	
~~S-22~~	~~38+89~~	~~18.7'LT~~	~~54.34~~	~~TYPE A~~	~~CURB INLET~~	
S-23	38+38	56.93'LT	52.20	TYPE A	CURB INLET	
S-24	39+15	37.8'RT	54.10	TYPE B	FIELD INLET	
S-25	39+55	37.1'RT	53.60	TYPE B	FIELD INLET	
S-26	39+63	16.3'RT	53.28	TYPE B	CURB INLET	
S-27	41+56	16.8'RT	54.70	TYPE B	CURB INLET	
S-28	41+66	38.0'RT	55.04	TYPE B	FIELD INLET	
S-29	41+96	38.7'RT	55.43	TYPE B	FIELD INLET	
S-30	42+~~82~~11	22.3'RT	52.72	TYPE A	CURB INLET	
S-31	43+66	22.3'RT	51.30	TYPE A	CURB INLET	
S-32	45+43	22.3'RT	49.46	TYPE B	CURB INLET	
~~S-33~~	~~45+51~~	~~32.5'RT~~	~~49.69~~	~~TYPE B~~	~~FIELD INLET~~	
S-34	45+95	37.0'RT	50.22	TYPE A	FIELD INLET	
S-35	48+05	22.3'RT	42.23	TYPE B	CURB INLET	
S-36	48+05	22.3'LT	42.68	TYPE B	CURB INLET	
S-37	51+~~22~~68	25.9'LT	38.79	TYPE B	CURB INLET	
S-38	52~~51~~+~~51~~69	22.3'RT	35.58	TYPE B	CURB INLET	
~~S-39~~	~~51+53~~	~~29.9'RT~~	~~35.76~~	~~TYPE A~~	~~FIELD INLET~~	
S-40	52+00	57.0'RT	40.71	TYPE A	FIELD INLET	
~~S-41~~	~~52+09~~	~~22.3'RT~~	~~34.90~~	~~TYPE B~~	~~FIELD INLET~~	
S-42	53+~~25~~90	30.0'RT	30.96	TYPE A	FIELD INLET	
S-43	53+~~25~~90	22.0'RT	31.07	TYPE B	CURB INLET	
S-44	54+05	22.3'LT	30.96	TYPE A	CURB INLET	
S-45	55+35	22.3'LT	24.88	TYPE B	CURB INLET	
S-46	55+25	22.3'RT	26.05	TYPE B	CURB INLET	
S-46A	55+89	59.0'RT	24.38	TYPE A	FIELD INLET	
S-47	58+~~55~~47	22.3'RT	17.17	TYPE B	CURB INLET	
S-48	58+~~82~~65	41~~36~~.7'RT	17.44	TYPE A	FIELD INLET	
S-49	58+89	19.6'RT	16.79	TYPE A	FIELD INLET	
S-49A	59+~~37~~00	22.3'LT	17.20	TYPE B	FIELD INLET	
S-50	60+35	22.3'RT	16.20	TYPE ~~C~~A	FIELD ~~CURB~~ INLET	
S-51	60+83	22.3'LT	18.06	TYPE B	CURB INLET	
~~S-52~~	~~60+77~~	~~33.0'LT~~	~~18.26~~	~~TYPE A~~	~~FIELD INLET~~	
S-53	62+~~12~~08	22.3'RT	20.64	TYPE B	CURB INLET	
S-54	62+80	22.3'LT	23.50	TYPE A	CURB INLET	
S-55	62+87	22.8'RT	23.22	TYPE B	CURB INLET	
S-56	62+91	37.6'RT	23.37	TYPE A	FIELD INLET	
S-16A	38+51	30.0'LT	34.14	TYPE A	FIELD INLET	

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

AS-BUILT
BY: B.A. DATE: 4-7-96

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/15	P.S. & E./REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MISCELLANEOUS SUMMARIES

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 9 OF 106

FILE: D.S. 206-9

R & M ENGINEERING, INC.

PROJECT DESIGNATION	YEAR
70606	1994

CULVERT PIPE ADJUSTMENT SUMMARY

LOCATION	LENGTH	DIA.	REMARKS
24+35			CONNECT EXISTING 18" CMPS TO NEW INLET BOX S-2
48+05			22.3'LT NEW INLET BOX S-36 IN EXISTING 24" CMP
55+34			INSERT NEW STRUCTURE S-45 INTO EXISTING 24" CMP DRAIN
~~60+35~~			~~INSTALL SPECIAL CATCHBASIN S-50 (SEE DETAIL SHEET 49F)~~

UNDERDRAIN SUMMARY

FROM STATION	TO STATION	DIA.	RT/LT	REMARKS
~~27+52~~		~~8"~~	~~RT~~	~~UNDERDRAIN CLEANOUT~~
~~29+45~~		~~8"~~	~~RT~~	~~UNDERDRAIN CLEANOUT~~
~~31+60~~		~~8"~~	~~RT~~	~~UNDERDRAIN CLEANOUT~~
~~33+20~~		~~8"~~	~~RT~~	~~UNDERDRAIN CLEANOUT~~
~~27+52~~	~~33+20~~	~~8"~~	~~RT~~	~~8" HDPE UNDERDRAIN~~
~~36+65~~		~~8"~~	~~LT~~	~~UNDERDRAIN CLEANOUT~~
36+65	38+85	8"	~~LT~~ RT	8" HDPE UNDERDRAIN
38+85		8"	~~LT~~ RT	UNDERDRAIN CLEANOUT
52+6~~5~~0		8"	~~LT~~ RT	UNDERDRAIN CLEANOUT
52+~~65~~79	53+~~28~~93	8"	~~LT~~ RT	8" HDPE UNDERDRAIN

DRIVEWAY SUMMARY

STATION	OFFSET LT.	OFFSET RT.	WIDTH	CURB CUT TYPE	REMARKS
25+30.7	X		~~24'~~ 20	TYPE I	DRIVEWAY "D-1"
26+51.5	X		~~24'~~	TYPE I	DRIVEWAY "D-2"
27+33.0	X		~~24'~~ 73	TYPE I	DRIVEWAY "D-3" COMBINED
34+69.5		X	20'	TYPE II	DRIVEWAY "D-4"
36+02.1		X	~~14'~~ 16	TYPE II	DRIVEWAY "D-5"
36+53.5		X	~~14'~~ 18	TYPE II	DRIVEWAY "D-6"
37+27		X	~~48'~~ 55	TYPE II	DRIVEWAY "D-7"
39+81.4	X		14'	TYPE I	DRIVEWAY "D-8"
42+99.8		X	20'	TYPE II	DRIVEWAY "D-9"
43+31.9	X		~~24'~~ 26	TYPE I	DRIVEWAY "D-10" BLATCHLEY JUNIOR HIGH
43+85.3		X	24'	TYPE II	DRIVEWAY "D-11"
45+12.5	X		20'	TYPE I	DRIVEWAY "D-12" BLATCHLEY JUNIOR HIGH
45+65.3	X		~~28'~~ 26	TYPE I	DRIVEWAY "D-13" BLATCHLEY JUNIOR HIGH
46+34.0	X		~~24'~~ 27	TYPE I	DRIVEWAY "D-14" SHOPPING CENTER
47+00.5		X	20'	TYPE II	DRIVEWAY "D-15"
49+14.1	X		~~28'~~ 32	TYPE I	DRIVEWAY "D-16" SHOPPING CENTER
49+29.5		X	24'	TYPE II	DRIVEWAY "D-17" MOELLER PARK
49+99,4	X		34'	TYPE I	DRIVEWAY "D-18" SHOPPING CENTER
50+66.3	X		~~24'~~ 22	TYPE I	DRIVEWAY "D-19" SHOPPING CENTER
54+23.7		X	~~20'~~ 34	TYPE I	DRIVEWAY "D-20" BEACH-PLANE PULL-OUT
54+23.7	X		~~24'~~ 20	TYPE I	DRIVEWAY "D-21"
55+74.5		X	34'	TYPE I	DRIVEWAY "D-22"
55+83.6	X		53'	TYPE I	DRIVEWAY "D-23" 60 DEG. ANGLE PARKING
56+67.3	X		34'	TYPE I	DRIVEWAY "D-24"
57+~~49.6~~75		X	~~31'~~ 24	TYPE I	DRIVEWAY "D-25"
57+91.5	X		152'	TYPE I	DRIVEWAY "D-26"
59+84.5	X		83'	TYPE I	DRIVEWAY "D-27" 60 DEG. ANGLE PARKING
60+57.0	X		34'	TYPE I	DRIVEWAY "D-28" MCDONALD'S AREA
60+85.7		X	34'	TYPE I	DRIVEWAY "D-29" LAUNDRY & APARTMENTS
61+81		X	50'	TYPE I	DRIVEWAY "D-30" APARTMENTS
62+61.5	X		24'	TYPE I	DRIVEWAY "D-31" MCDONALD'S EXIT

ADDITIONAL DRIVEWAYS

STATION	OFFSET LT.	OFFSET RT.	WIDTH
26+00	X		29'
63+50		X	19'
63+75		X	18'
63+90	X		13'
64+10		X	22'
65+00		X	14'

CULVERT PIPE REMOVAL SUMMARY

LOCATION	LENGTH	DIA.	REMARKS
24+21	~~64.0'~~ 14'	18"	REMOVE & DISPOSE
24+32	28'	18"	25. LT., REMOVE & DISPOSE
25+40	~~62'~~ 8'	24"	REMOVE & DISPOSE
25+63	~~55'~~ 34'	24"	REMOVE & DISPOSE
27+50	~~34'~~ 34'	24"	REMOVE & DISPOSE
33+50	52'	18"	REMOVE & DISPOSE
"S"12+03	37'	18"	REMOVE & DISPOSE
~~34+70~~	~~30'~~	~~18"~~	~~50'RT., REMOVE & DISPOSE DRIVEWAY CULVERT~~
35+03	~~80'~~ 50'	18"	REMOVE & DISPOSE
35+40	65'	18"	32' LT., REMOVE & DISPOSE
36+00	33'	18"	22'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
36+53	20'	18"	22'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
37+25	63'	18"	22'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
38+50	~~108'~~ 25'	18"	20' LT., REMOVE & DISPOSE
41+85	50'	18"	24'RT., REMOVE & DISPOSE APPROACH CULVERT
42+85	20'	18"	24'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
~~42+96~~	~~60'~~	~~18"~~	~~REMOVE & CAP AT R/W ON SOUTHWEST END~~
43+88	38'	18"	24'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
45+70	50'	18"	25'RT., REMOVE & DISPOSE APPROACH CULVERT
47+00	39'	18"	23'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
51+45	60'	18"	30'RT., REMOVE 18" CMP DRAIN
~~51+90~~	~~33'~~	~~8"~~	~~45'RT., REMOVE & DISPOSE 8" CMP DRAIN~~
52+25	160'	24"	28'RT., REMOVE & DISPOSE APPROACH CULVERT
54+20	25'	18"	24'RT., REMOVE & DISPOSE DRIVEWAY CULVERT
54+50	130'	18"	20'LT., REMOVE 18" CMP FROM STA. 54+05 TO STA. 55+34
55+30	45'	24"	REMOVE & DISPOSE
57+45	45'	12"	24'RT., REMOVE & DISPOSE
59+00	183'	24"	20.0'RT., REMOVE & DISPOSE
~~60+00~~	~~143'~~	~~18"~~	~~18.5'LT., REMOVE & DISPOSE~~
61+20	170'	18"	20.0'RT., REMOVE & DISPOSE
62+32	65'	12"	REMOVE & DISPOSE
62+50	~~75'~~ 21'	18"	22.0'RT., REMOVE & DISPOSE
~~62+85~~	~~5'~~	~~18"~~	~~REMOVE PORTION OF CMP TO FIT S41~~
48+00	40'	24"	
38+30	24'	12"	
39+50	76'	12"	

REMOVAL AND DISPOSAL OF GUARDRAIL AND END ANCHORAGES

LOCATION FROM STATION	LOCATION TO STATION	REMARKS
23+11, 9' RT.	33+78, 22' RT.	REMOVE AND DISPOSE

INLET REMOVAL SUMMARY

LOCATION	OFFSET LT.	OFFSET RT.	REMARKS
24+21	13.5'		REMOVE EXISTING INLET BOX & CURB INLET
25+64	18.0'		REMOVE EXISTING INLET BOX & CURB INLET
27+50	19.0'		REMOVE EXISTING INLET BOX & CURB INLET
33+50	20.0'		REMOVE EXISTING INLET BOX & CURB INLET
35+10	33.0'		REMOVE EXISTING INLET BOX & CURB INLET
38+84	48.0'		REMOVE EXISTING INLET BOX & CURB INLET
51+33	28.0'		REMOVE EXISTING INLET BOX & CURB INLET
51+51		22.3	REMOVE EXISTING INLET BOX & GRATE
54+03	18.0'		REMOVE EXISTING INLET BOX & CURB INLET
55+34	21.0'		REMOVE EXISTING INLET BOX & CURB INLET
58+90		20.0'	REMOVE EXISTING INLET BOX & CURB INLET
59+35	20.0'		REMOVE EXISTING INLET BOX & CURB INLET
~~60+35~~		~~19.0'~~	~~REMOVE EXISTING INLET BOX & CURB INLET~~
60+77	33.0'		REMOVE EXISTING INLET BOX & CURB INLET
62+05		20.0'	REMOVE EXISTING INLET BOX & CURB INLET
62+56	19.0'		REMOVE EXISTING INLET BOX & CURB INLET
38+30	51.0'		
38+63	65.0'		

AS-BUILT
BY: B. A. DATE: 4-9-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1895-CE
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\PLANSET\S_MISSUM6
R&M #921374/MIS-SUM6.DWG/SCALE 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/15	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MISCELLANEOUS SUMMARIES

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 10 OF 106

FILE: U.S. 208-10

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

*OFFSET POST TO CENTER LINE

SIGNING SUMMARY

NO.	STATION	OFFSET* LT.	OFFSET* RT.	TYPE	FACING TRAFFIC	LEGEND	*POST SIZE	NO. OF POSTS	WIDTH IN.	HEIGHT IN.	AREA SQ.FT.	REMARKS
1	"O"22+75		40	R1-1	S.B.	STOP	2.5"	1	30	30	6.25	
2	"O"23+34		23.5	R9-6	W.B.	YIELD TO PEDS	2"	1	12	18	1.5	SIGN ON PATHWAY @ 90°
2A	"O"24+00		23.5	R7-101RL	W.B.	NO PARKING ANYTIME	2.5"	1	12	18	1.5	INSTALL @ 45° TO HPR, MOUNTED AT TOP
	"O"24+00		23.5	R9-7	W.B.	KEEP LEFT/RIGHT			12	18	1.5	INSTALLED AT 90° TO BIKE PATH
3	"O"24+36	23.5		D1-2	E.B.	Sawmill Ck Rd (ARROW UP) Japonski Island (ARROW RT.)	2.5"	2	72	24	12	INSTALL @ 90° TO HPR AND 6" UPPER CASE, 4.5" LOWER CASE
4	"O"25+00	23.5		R3-16	E.B.	BIKE LANE ENDS	2"	1	24	30	5	INSTALL @ 45° TO HPR
5	"O"25+00		15.41	R2-1	W.B.	SPEED LIMIT 30	2.5"	1	30	36	7.5	INSTALL BEHIND JERSEY BARRIER
6	"O"26+26	23.5		R7-9	E.B.	NO PARKING BIKE LANE	2.5"	1	12	18	1.5	INSTALL @ 45°
6A	"O"26+44	23.5		R2-1	E.B.	SPEED LIMIT 25	2.5"	1	30	38	7.5	INSTALL @ 90° TO HPR
7	"O"30+04		15.41	R7-101RL	W.B.	NO PARKING ANYTIME	2"	1	12	18	1.5	INSTALL @45° BEHIND JERSEY BARRIER
7A	"O"30+04		33	R9-6	W.B.	YIELD TO PEDS	2"	1	12	18	1.5	INSTALL @ 90° TO PATHWAY
7B	"O"30+04		25	R9-6	E.B.	YIELD TO PEDS	2"	1	12	18	1.5	INSTALL @ 90° TO PATHWAY
8	"O"30+04	23.5		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45° TO HPR
9	"O"32+80	23.5		R2-1	E.B.	SPEED LIMIT 30	2.5"	1	30	36	7.5	
10	"O"33+48		15.41	R2-1	W.B.	SPEED LIMIT 30	2.5"	1	30	36	7.5	INSTALL BEHIND JERSEY BARRIER
10A	"O"33+00		15.41	R3-16	W.B.	BIKE LANE AHEAD	2"	1	24	30	5	INSTALL @ 45° BEHIND JERSEY BARREIR TO HPR
11	"O"34+10		30.0	S5-1	W.B.	SCHOOL SPEED LIMIT 20 WHEN FLASHING	2.5"	1	24	48	8.0	
11A	"O"34+10		30	R9-6	E.B.	YIELD TO PEDS	2"	1	12	18	1.5	MOUNTED ON BACK OF NO. 11 FOR E.B. PATH
12	"O"34+52		23.0	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL AT 45°
13	"O"34+52	23.5		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
14	"O"34+64	44.2		R1-1 D3-1 D3-1	N.B.	STOP HALIBUT PT RD SPRUCE ST	2.5"	1	30 42 36	30 8 8	6.25 2.33 2.0	SPRUCE STREET AT HPR MOUNT ON TOP MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS
~~15~~	~~N/A~~			~~W14-1~~	~~E.B.~~	~~DEAD END~~	~~2.5"~~	~~1~~	~~30~~	~~30~~	~~6.25~~	~~NEW ARCHANGEL @ MARINE STREET~~
16	"O"37+00		23.5	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
17	"O"37+00	23.5		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
18	"O"37+66		23.5	S1-1	W.B.	ADVANCE SCHOOL CROSSING SYMBOL	2.5"	1	36	36	9	
19	"O"38+16	33.1		R1-1 D3-1 D3-1	N.B	STOP HALIBUT PT RD MARINE ST	2.5"	1	30 42 36	30 8 8	6.25 2.33 2.0	MARINE STREET AT HPR MOUNT ON TOP MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS
20	"O"38+60		23.5	S2-1	W.B.	SCHOOL CROSS WALK SYMBOL	2.5"	1	36	36	9	
21	"O"39+10	23.5		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
22	"O"39+50		41.7	R1-1 D3-1 D3-1	S.B.	STOP HALIBUT PT RD S. LAKEVIEW DR	2.5"	1	30 42 42	30 8 8	6.25 2.33 2.33	SOUTH LAKEVIEW AT HPR MOUNT ON TOP MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS
23	"O"40+15	23.5		S2-1	E.B.	SCHOOL CROSS WALK SYMBOL		1	36	36	9	
24	"O"40+57		23.5	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
25	"O"41+56	23.5		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
26	"O"42+03		39.3	R1-1 D3-1 D3-1	S.B.	STOP HALIBUT PT RD CRABAPPLE DR	2.5"	1	30 42 42	30 8 8	6.25 2.33 2.33	CRABAPPLE DRIVE AT HPR MOUNT ON TOP MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS
27	"O"42+60		28.6	R3-9A	W.B.	BEGIN (TURN ARROW SYMBOLS) ONLY	2.5"	1	30	36	7.5	BEGIN CENTER TURN LANE
28	"O"43+50	29.0		R3-9A	E.B.	END (TURN ARROW SYMBOLS) ONLY	2.5"	1	30	36	7.5	END CENTER TURN LANE
29	"O"44+30	29.0		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
30	"O"43+67		29	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
31	"O"45+03	29.0		R1-1 R5-1	N.B. S.B.	STOP DO NOT ENTER	2.5"	1	30 30	30 30	6.25 6.25	EXITING LOT @ HPR (BACK TO BACK) ENTERING LOT @ HPR
32	"O"45+32		29.0	S2-1	W.B.	SCHOOL CROSS WALK SYMBOL	2.5"	1	36	36	9.0	
33	"O"45+29	29.0		R5-1	S.B.	DO NOT ENTER	2.5"	1	30	30	6.25	BLATCHLEY SCHOOL AT HPR
11A	34+10		30.0	R9-7		KEEP LEFT/RIGHT	2.5	1	12	18	1.5	

SIGNING GENERAL NOTES

1. INSTALL ALL SIGNS USING "EXPRESSWAY" DIMENSIONS AS SHOWN ON STANDARD DWG. S-05.00
2. PERFORATED STEEL TUBE (PST) POSTS SHALL HAVE EITHER THE CONCRETE FOUNDATION OR SOIL EMBEDMENT FOUNDATION WITH A DEPTH ACCORDING TO STANDARD DRAWING S-30.01
3. STATIONING IS APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS
4. 2.5" POSTS ARE ROUND POSTS.

AS-BUILT
BY: B.A. DATE: 4-8-96

P:\SIT\70606894\PLANSET\SIGNSUM1
R&M #921374/SIGNSUM1.DWG/SCALE 1:20

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
GP	5/16/94	REVISED TO ADD BIKE LANE
K.K.	3/17/99	AS BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT — ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
SIGNING SUMMARY

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 11 OF 106

FILE: O.S. 206-11

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

SIGNING SUMMARY

NO.	STATION	OFFSET LT.	OFFSET RT.	TYPE	FACING TRAFFIC	LEGEND	*POST SIZE	NO. OF POSTS	WIDTH IN.	HEIGHT IN.	AREA SQ.FT.	REMARKS
34	"O"46+20	29.0		S2-1	S.B.	SCHOOL CROSS WALK SYMBOL	2.5"	1	36	36	9.0	
				R1-1	S.B.	STOP			30	30	6.25	LAKESIDE SHOPPING AREA AT HPR
35	"O"45+90		50.60	R1-1	S.B.	STOP	2.5"	1	30	30	6.25	NORTH LAKEVIEW AT HPR
				D3-1		HALIBUT PT RD			42	8	2.33	MOUNT ON TOP
						N LAKEVIEW DR			42	8	2.33	MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS
36	"O"47+70	32.7		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
37	"O"48+00		29.67	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
38	"O"48+38	29.67		S5-1	E.B.	SCHOOL SPEED LIMIT 20 WHEN FLASHING	2.5"	1	24	48	8.0	
~~39~~	~~"O"48+90~~	~~33.1~~		~~R1-1~~	~~N.B.~~	~~STOP~~	~~2.5"~~	~~1~~	~~30~~	~~30~~	~~6.25~~	~~EXITING PARKING LOT~~
40	"O"48+90	33.1		N/A	N.B.-S.B.	ENTRANCE-EXIT	2"	1	N/A	N/A	N/A	SALVAGE EXISTING & RESET
41	"O"49+42	29.67		S1-1	E.B.	SCHOOL ADVANCE CROSSING SYMBOL	2.5"	1	36	36	9.0	
42	"O"49+10		29.67	R2-1	W.B.	SPEED LIMIT 30	2.5"	1	30	30	6.25	
43	"O"49+64		29.67	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
44	"O"49+75		29.67	R3-9A	E.B.	ONLY (WITH DOUBLE TURN ARROW SYMBOL)	2.5"	1	~~24~~30	36	~~6~~ 7.5	MOUNTED AT TOP @ 90°
			29.67	R7-9		NO PARKING BIKE LANE			12	18	1.5	INSTALL @ 45°
45	"O"50+93		29.67	D9-2	W.B.	HOSPITAL "H" SYMBOL WITH RT. ARROW	2"	1	24	24	4	
46	"O"51+26	32.8		N/A	W.B.	SITKA COMMUNITY HOSPITAL	N/A	N/A	N/A	N/A	N/A	SALVAGE EXISTING & RESET
46A	"O"51+60	11		D3-2B	E.B	KATLIAN AVE (RIGHT ARROW) MOLLER DR (LEFT ARROW)	N/A	N/A	108	30	22.5	MOUNTED ON SIGNAL CROSS ARM
46B	"O"52+48		11	D3-2B	W.B.	KATLIAN AVE (LEFT ARROW) MOLLER DR (RIGHT ARROW)	N/A	N/A	108	30	22.5	MOUNTED ON SIGNAL CROSS ARM
47	"O"54+03	35		R1-1	N.B.	STOP	2.5"	1	30	30	6.25	SEAPLANE PULLOUT AT HPR
48	"O"54+26	29.67		D9-2	E.B.	HOSPITAL "H" SYMBOL			24	24	4	ARROW BELOW "H"
49	"O"54+00		29.67	R3-9A	W.B.	ONLY (WITH DOUBLE TURN ARROW SYMBOL)	2.5"	1	~~24~~30	36	~~6~~ 7.5	
50	"O"54+55	29.67		N/A	W.B.	UNITED METHODIST CHURCH	N/A	N/A	N/A	N/A	N/A	SALVAGE & RELOCATE EXISTING
51	"O"54+04	29.67		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
52	"O"56+05		29.67	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
53	"O"56+30	29.67		R3-9A	W.B.	ONLY (WITH DOUBLE TURN ARROW SYMBOL)	2.5"	1	~~24~~30	36	~~6~~ 7.5	
54	"O"58+60		29.67	N/A	E.B.	HOSPITAL EMERGENCY	N/A	N/A	N/A	N/A	N/A	SALVAGE & RELOCATE EXISTING
55	"O"59+12		42	R1-1	S.B.	STOP	2.5"	1	30	30	~~6.3~~25	BRADY & HPR
				D3-1		HALIBUT PT RD			42	8	2.33	MOUNT ON TOP
						BRADY ST			36	8	2.0	MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS
55A	"O"59+60	47.75		R7-8	E.B.	RESERVED PARKING WITH HANDICAPPED SYMBOL	2"	1	12	18	1.5	INSTALL @ 30° TO HPR IN TOP WALL
56	"O"60+60		29.67	R7-9	W.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
57	"O"60+75	35.0		R1-1	N.B.	STOP	2.5"	1	30	30	6.25	EXIT PARKING TO HPR
57A	"O"61+00	35.0		N/A	E.B.	MCDONALDS	N/A	N/A	N/A	N/A	N/A	SALVAGE & RELOCATE EXISTING
57B	"O"61+37	29.67		R7-9	E.B.	NO PARKING BIKE LANE	2"	1	12	18	1.5	INSTALL @ 45°
58	"O"61+45	29.67		R3-9A	W.B.	END ONLY (WITH DOUBLE TURN ARROW SYMBOL)	2.5"	1	24	36	6	MOUNTED AT TOP SAME POST
				R3-16	W.B.	BIKE LANE ENDS			24	30	5	INSTALL @ 45°
59	"O"62+18	32		N/A	E.B.	MCDONALDS	N/A	N/A	N/A	N/A	N/A	SALVAGE & RELOCATE EXISTING
59A	"O"62+44	32.4		R1-1	N.B.	STOP	2.5"	1	30	30	6.25	EXIT PARKING TO HPR
60	"O"62+17		35.8	N/A	W.B.	LUTHERAN CHURCH	N/A	N/A	N/A	N/A	N/A	SALVAGE & RELOCATE EXISTING
61	"O"62+75	29.67		R3-16	E.B.	BEGIN ONLY (WITH DOUBLE TURN ARROW SYMBOL)	2.5"	1	24	36	6	MOUNTED AT TOP
				R3-9A	S.B.	BIKE LANE AHEAD			24	30	5	INSTALL @ 45°
62	"O"62+75		35.0	R1-1	S.B.	STOP	2.5"	1	30	30	6.25	PETERSON AT HPR
				D3-1		HALIBUT PT RD			42	8	2.33	MOUNT ON TOP
				D3-1		PETERSON ST			42	8	2.33	MOUNT ABOVE STOP, NAME 4", TYPE 2", LETTERS

AS-BUILT
BY: B.P. DATE: 4-9-96

P:\SIT\70606\PLNSET\SIGNSM2
R&M #921374/SIGNSUM2.DWG/SCALE 20:1

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
GP	5/16/94	REVISED TO ADD BIKE LANES
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT — ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

SIGNING SUMMARY

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD / G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 12 OF 106

FILE: O.S. 206-12

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

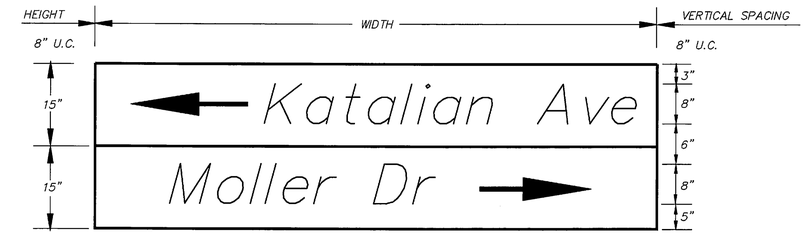
PROJECT DESIGNATION	YEAR
70606	1994

EXISTING SIGN SUMMARY

EXISTING LOCATION			LEGEND	REMARKS
STATION	OFFSET LT.	OFFSET RT.		
"0"22+69		40.7'	STOP	*REMOVE
"0"22+84		50.6'	SWAN LAKE	LEAVE IN PLACE
"0"23+61	34.5'		PED XING	*REMOVE &
"0"23+89	35.6'		STOP	FURNISH TO
"0"24+36	24.6'		SAWMILL CK. RD. JAPONSKI ISLAND	D.O.T./P.F.
"0"25+03	23.9'		NO PARKING	MAINTENANCE
"0"26+08		19.3'	30 MPH SPEED LIMIT	
"0"26+44	27.6'		25 MPH SPEED LIMIT	
"0"32+68	27.3'		30 MPH SPEED LIMIT	
"0"33+31		18.9'	SCHOOL KIDS	
"0"33+33		19.4'	30 MPH SPEED LIMIT	
"0"34+57	46.6'		STOP (SPRUCE ST.)	
"0"35+04		22.2'	SCHOOL ZONE SPEED LIMIT w/ FLASHING LIGHT	
"0"35+31	48.0'		STOP	
"0"38+29	33.7'		STOP (MARINE ST.)	
"0"38+41		25.8'	CROSSWALK	
"0"38+55	65.0'		STOP (OSPREY ST.)	
"0"39+42	26.1'		NO PARKING	
"0"39+52		34.6'	STOP	
"0"40+25	27.9'		CROSSWALK (S. LAKEVIEW)	
"0"42+03		35.7'	STOP	
"0"43+13	28.9'		STOP (BLATCHLEY DW#1)	
"0"43+36		23.4'	CENTER LANE TURN ONLY	
"0"44+94	28.8'		STOP-DO NOT ENTER (BLATCHLEY DW#2)	
"0"45+13		20.1'	CROSSWALK	
"0"45+29	29.2'		STOP-DO NOT ENTER (BLATCHLEY DW#3)	
"0"45+84	30.0'		CROSSWALK	
"0"45+97		31.9'	STOP (N. LAKEVIEW)	
"0"46+21	28.4'		BLANK SIGN	
"0"46+48	27.3'		BLANK SIGN	
"0"48+58	29.0'		SCHOOL ZONE w/ FLASHING LIGHTS	
"0"48+95	28.1'		ENTRANCE-EXIT	
"0"49+43	28.0'		CROSSWALK	
"0"49+61		28.4'	NO PARKING	RELOCATE
"0"49+97		23.7'	30 MPH SPEED LIMIT	*REMOVE
"0"50+97		28.3'	HOSPITAL	*REMOVE
"0"51+82		45.4'	SITKA COMMUNITY HOSPITAL	RELOCATE
"0"52+52		42.7'	STOP	*REMOVE
"0"54+05	29.2'		HOSPITAL	RELOCATE
"0"54+08	31.3'		UNITED METHODIST CHURCH	RELOCATE
"0"58+58		27.3'	HOSPITAL EMERGENCY	RELOCATE
"0"59+15		33.7'	STOP	RELOCATE
"0"60+58		27.0'	UNITED METHODIST CHURCH	*REMOVE
"0"60+82	34.6'		McDONALDS	RELOCATE
"0"62+17		37.4'	LUTHERAN CHURCH	
"0"62+46	33.8'		McDONALDS	
"0"62+77		38.4'	STOP (PETERSON)	
"0"64+47	27.6'		UNITED METHODIST CHURCH	

EXISTING SIGNING GENERAL NOTES

*1. REMOVE ALL SIGNS AND POSTS. SALVAGED SIGNS AND POSTS SHALL BE DELIVERED TO THE D.O.T. MAINTENANCE YARD. REMOVAL OF SIGNS IS INCIDENTAL TO 615(1) STD. SIGNS



SIGN TYPE D3-2B
N.T.S.

NOTES: 1. LEGEND IS WHITE 8" U.C. AND 6" L.C. LETTERING ON A GREEN BACKGROUND.
2. ARROWS TO THE LEFT ALWAYS GO ON THE TOP LINE.

SIGN TYPE D1-2
N.T.S.

NOTES: 1. LEGEND IS WHITE 6" U.C. AND 4.5" L.C. LETTERING ON A GREEN BACKGROUND.
2. ARROWS TO THE LEFT ALWAYS GO ON THE TOP LINE.

AS-BUILT
BY: BA. DATE: 4-8-96

P:\SIT\70606#94\PLANSET\#E-SIGN
R&M #921374/E-SIGN.DWG/SCALE 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/26	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
EXISTING SIGN SUMMARY

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

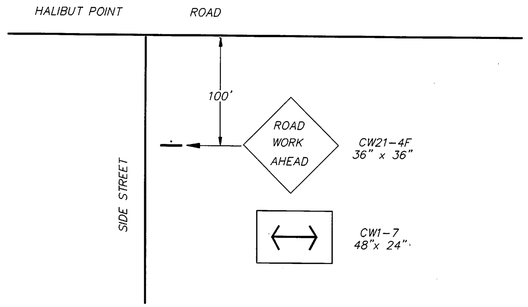
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 13 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E REGISTERED PROFESSIONAL ENGINEER

FILE: U.S. 20B-13

GENERAL NOTES:

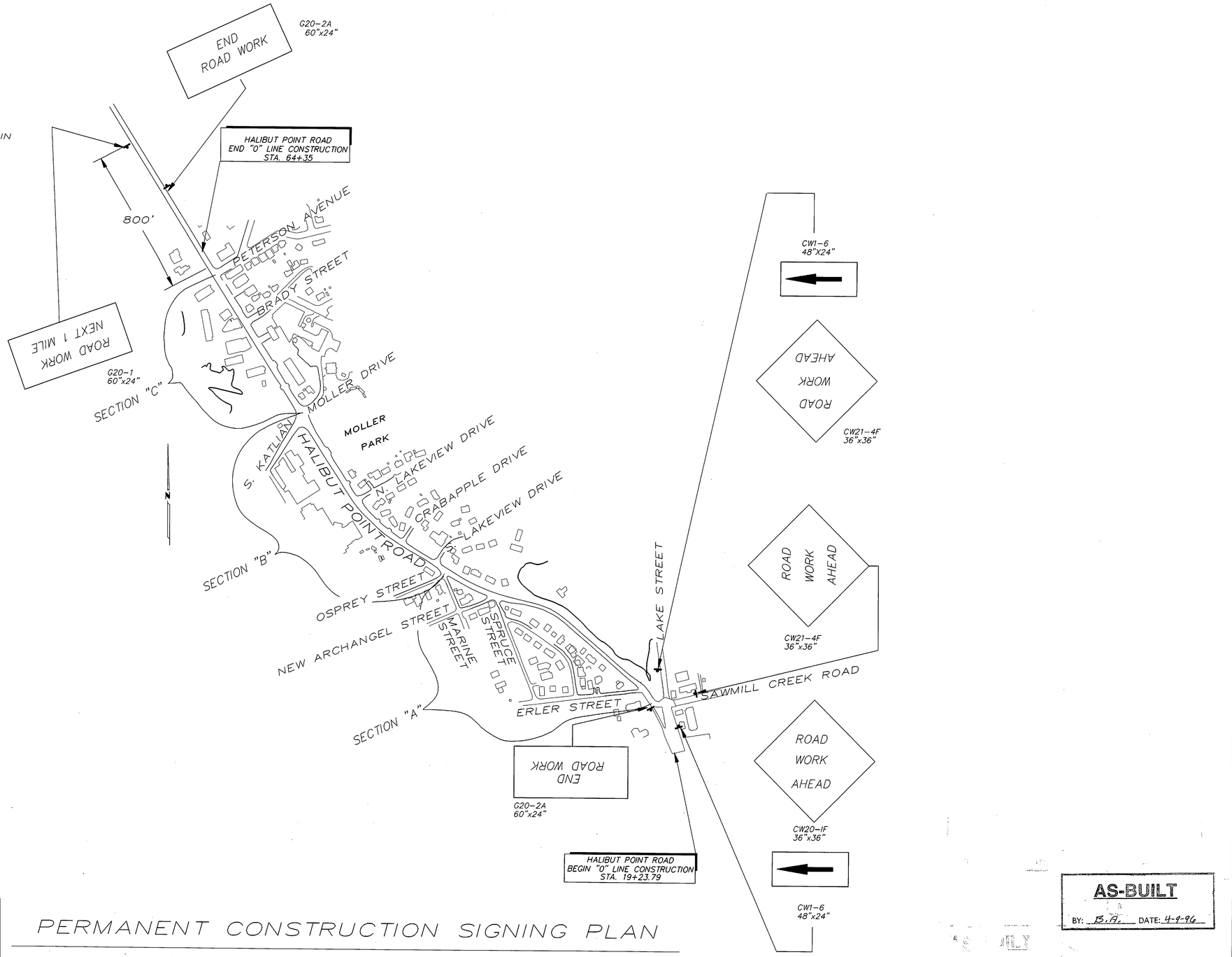
1. "ROAD CONSTRUCTION" MAY BE SUBSTITUTED FOR "ROAD WORK" ON CONSTRUCTION SIGN LEGENDS.
2. TEMPORARY PAVEMENT MARKINGS ARE REQUIRED AS DESCRIBED IN SECTION 643-3.04 OF THE SPECIFICATIONS.
3. ONE-LANE, TWO-WAY WORK AREAS SHALL BE RESTRICTED TO A MAXIMUM LENGTH OF 500 FEET. THE MINIMUM SEPARATION BETWEEN ONE-LANE WORK AREAS IS 1,000 FEET.
4. SEE SPECIAL PROVISIONS FOR CONSTRUCTION SEQUENCING AND TRAFFIC CONTROL REQUIREMENTS.



ERLER STREET "0" STA. 24+00
SPRUCE STREET "0" STA, 34+85
NEW ARCHANGEL STREET "0" STA. 35+30
MARINE STREET "0" STA. 38+45
OSPREY STREET "0" STA. 38+65
S. LAKEVIEW DRIVE "0" STA. 39+35
CRABAPPLE DRIVE "0" STA. 41+80
N. LAKEVIEW DRIVE "0" STA. 45+75
S. KATLIAN "0" STA.51+80
N. KATLIAN "0" STA. 52+20
BRADY STREET "0" STA. 58+55
PETERSON AVENUE "0" STA. 62+47

APPROACH STREET

PERMANENT CONSTRUCTION SIGNING



PERMANENT CONSTRUCTION SIGNING PLAN

N. T. S.

AS-BUILT
BY: B.A. DATE: 4-9-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606\94\PLANSET\8TRAFCP3

PATH: P:\SIT\ERLER\DR\TRAFCTL3 1=20		
BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

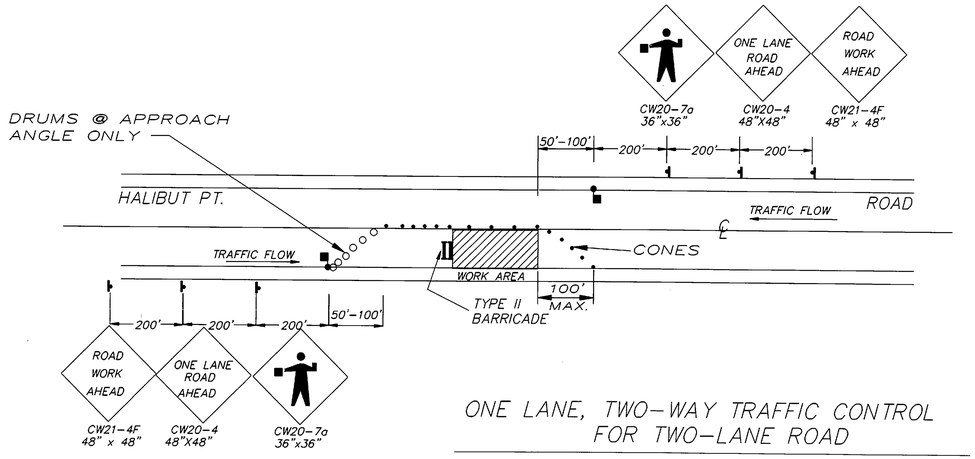
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA — SIT-ERLER TO PETERSON IMPROVEMENTS NH 099-3(3) — ALASKA

TRAFFIC CONTROL PLAN

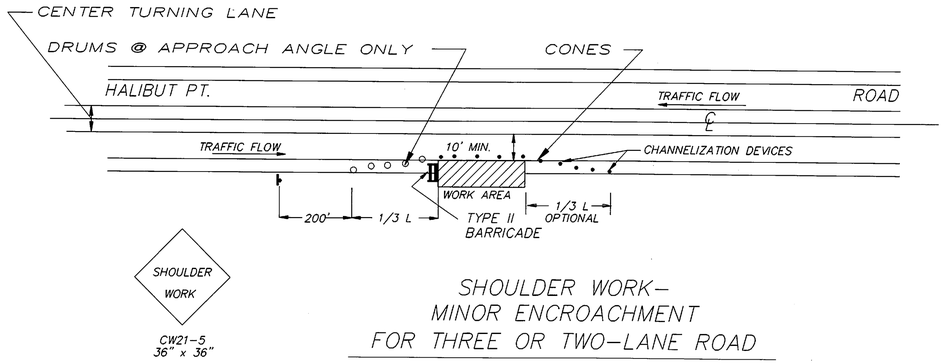
DESIGNED BY: J.A.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: SEPT. 1994
CHECKED BY: K.S.	SHEET 14 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 9/14/94 49th K. SMITH CE-7347 REGISTERED PROFESSIONAL ENGINEER



ONE LANE, TWO-WAY TRAFFIC CONTROL
FOR TWO-LANE ROAD

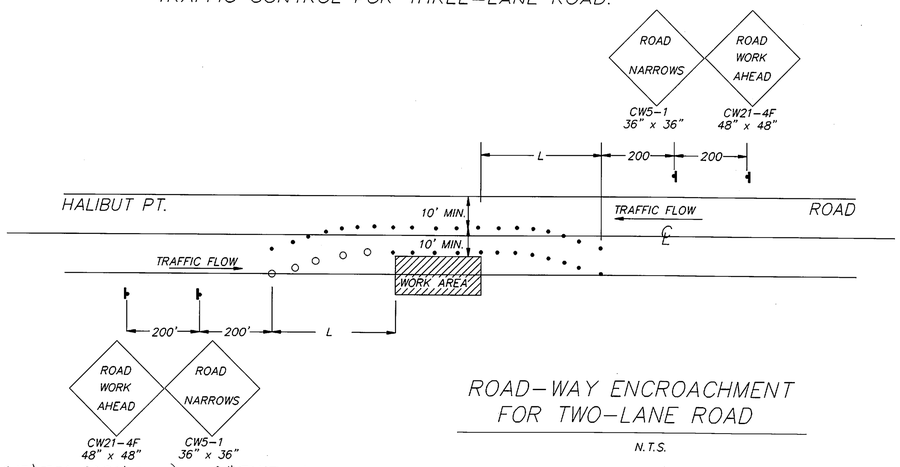
N.T.S.



SHOULDER WORK-
MINOR ENCROACHMENT
FOR THREE OR TWO-LANE ROAD

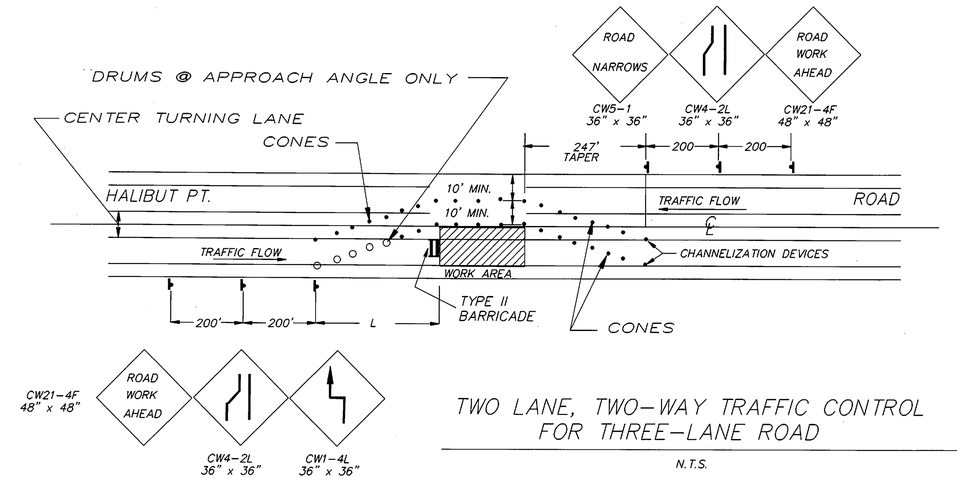
N.T.S.

NOTE: WHEN 10' MIN. LANE WIDTH CANNOT BE MAINTAINED WITHOUT ENCROACHMENT INTO ADJACENT LANE, USE "ROADWAY ENCROACHMENT FOR TWO-LANE ROAD" OR "TWO-LANE, TWO-WAY TRAFFIC CONTROL FOR THREE-LANE ROAD.



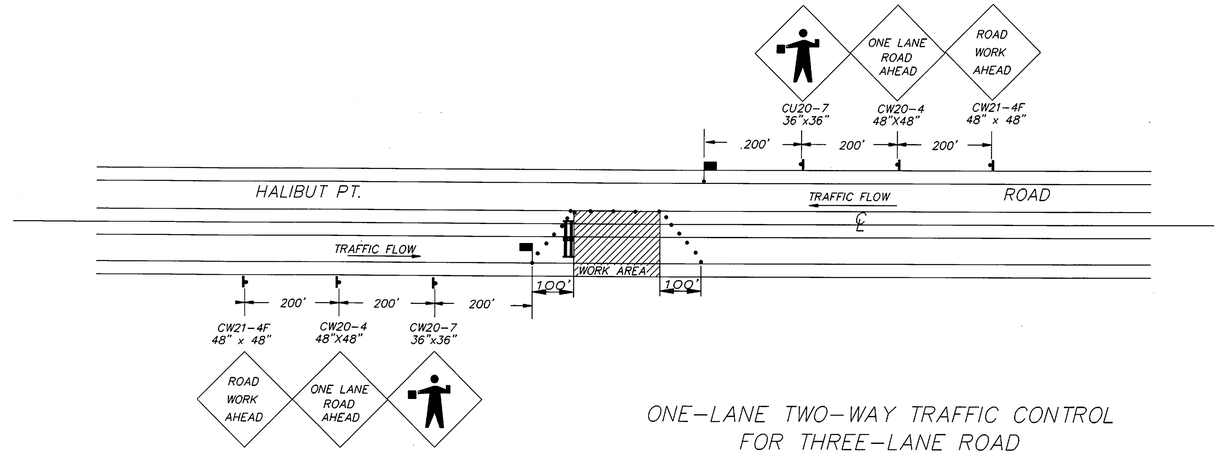
ROAD-WAY ENCROACHMENT
FOR TWO-LANE ROAD

N.T.S.



TWO LANE, TWO-WAY TRAFFIC CONTROL
FOR THREE-LANE ROAD

N.T.S.



ONE-LANE TWO-WAY TRAFFIC CONTROL
FOR THREE-LANE ROAD

N.T.S.

TYPICAL WORK ZONE TRAFFIC CONTROL

N.T.S.

LEGEND

- SIGN
- CONE
- DRUM
- FLAGGER
- II TYPE II BARRACADE

TAPER RATE FORMULA

$L = \frac{WS^2}{60}$

W=WIDTH OF TAPER
S=SPEED LIMIT
L=LENGTH OF TAPER

AS-BUILT
BY: B.B. DATE: 4-9-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
9/14/94
49th
K. Smith
K. SMITH
CE-7347
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606894\PLANSET\$TRAFCP4

PATH: P:\SIT\ERLER\DR\TRAFCTL4 1=20		
BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT

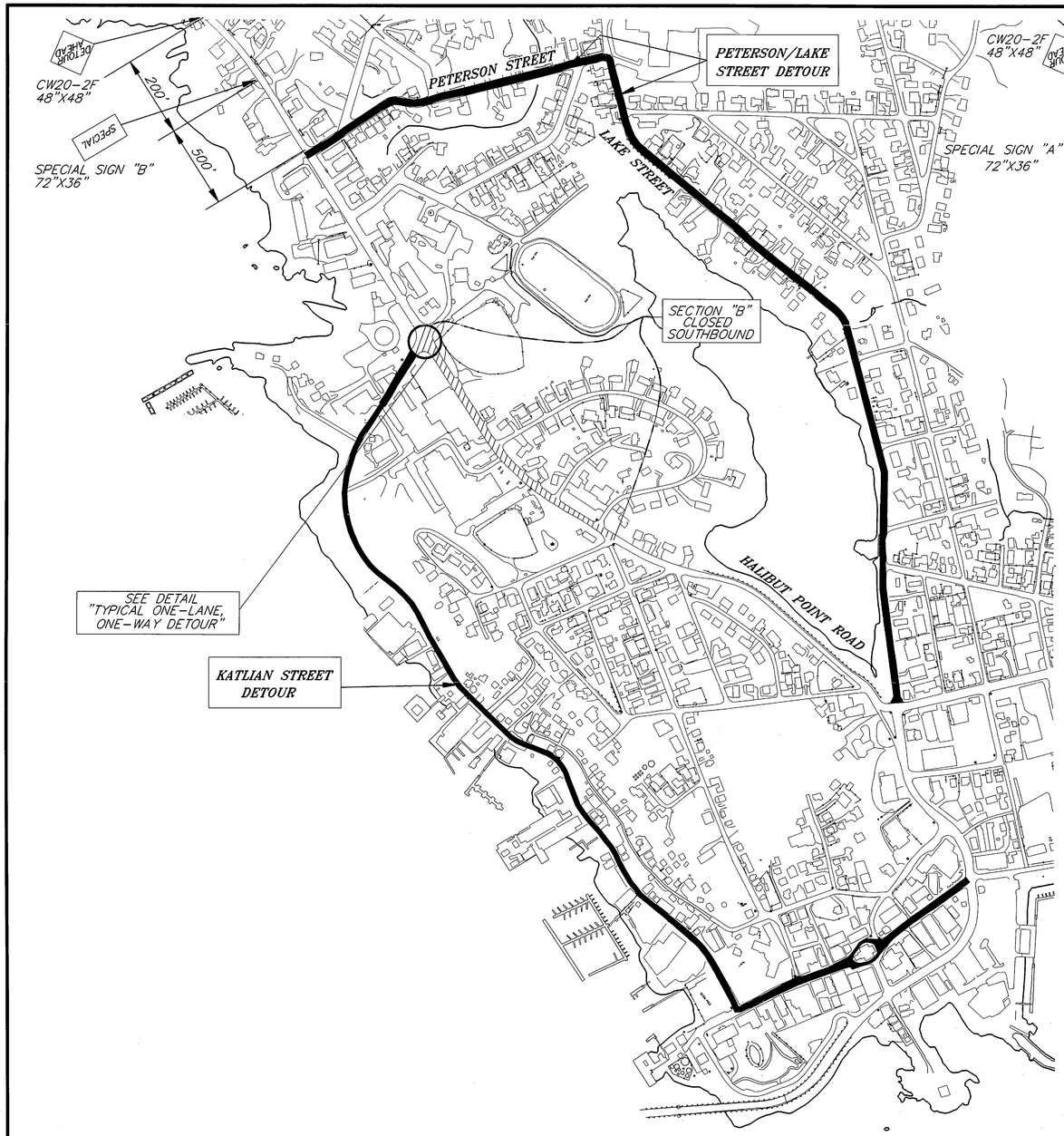
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

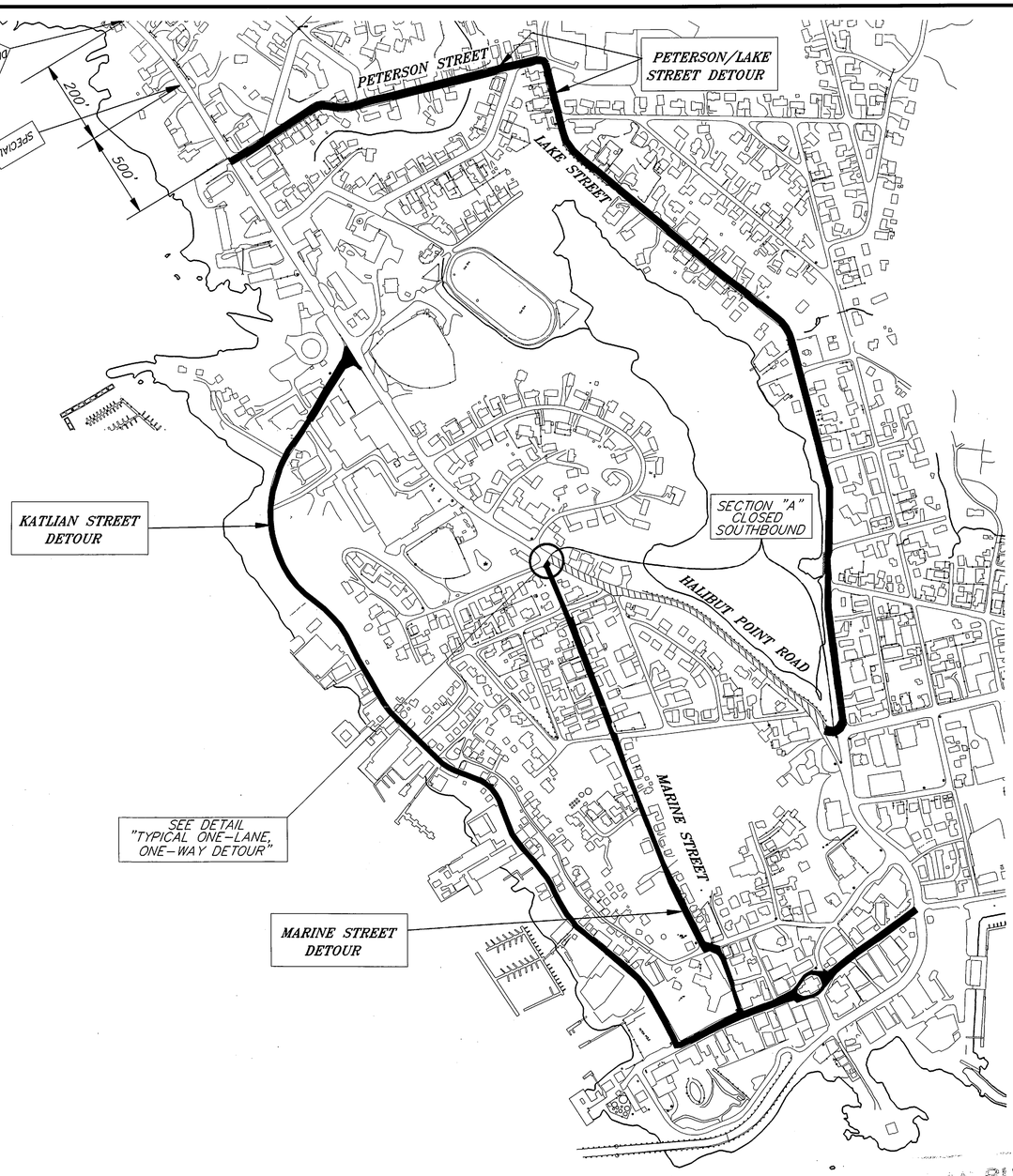
SITKA — SIT-ERLER TO PETERSON IMPROVEMENTS — ALASKA
NH 099-3(3) 70606

TRAFFIC CONTROL PLAN

DESIGNED BY: J.A.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: SEPT. 1994
CHECKED BY: K.S.	SHEET 15A OF 106



DETOUR PLAN
SECTION "B" CLOSED SOUTHBOUND



DETOUR PLAN
SECTION "A" CLOSED SOUTHBOUND

AS-BUILT
BY: B.A. DATE: 4-9-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606\94\PLANSET\# DETOUR

PATH: P:\SIT\EALER\DR\DETOUR 1=100 HORZ. 1=1 VERT.		
BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

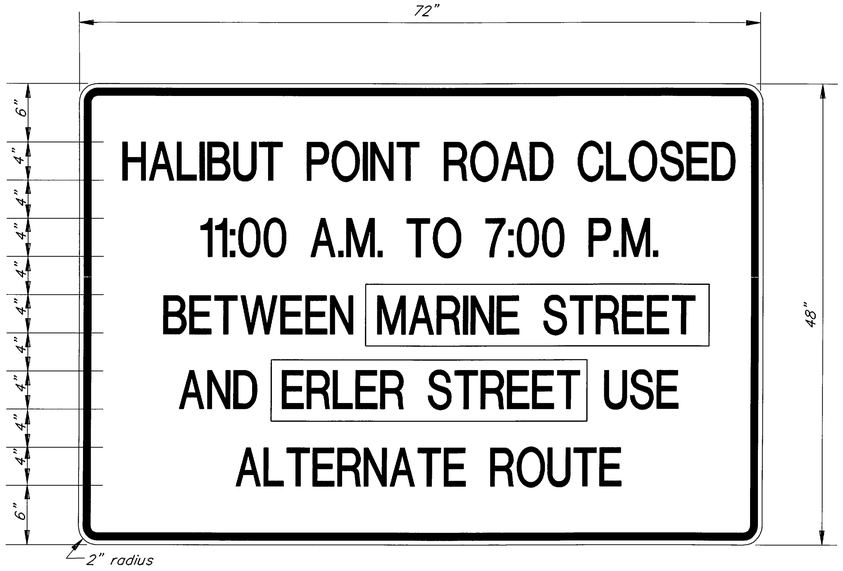
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA — SIT-ERLER TO PRTERSON IMPROVMENTS NH 099-3(3) 70606 — ALASKA

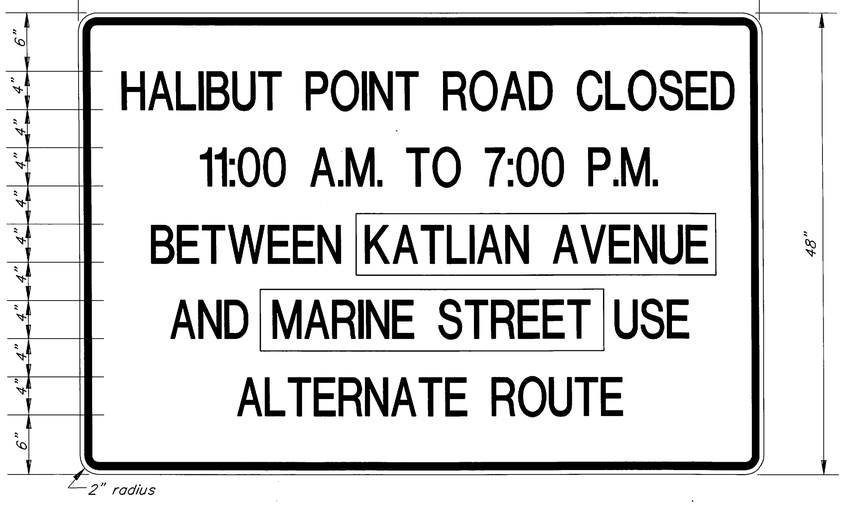
TRAFFIC CONTROL PLAN

DESIGNED BY: J.A.	PROJECT NO. 70606
DRAWN BY: T. WEED	DATE: SEPT 1994
CHECKED BY: K.S.	SHEET 15B OF 106

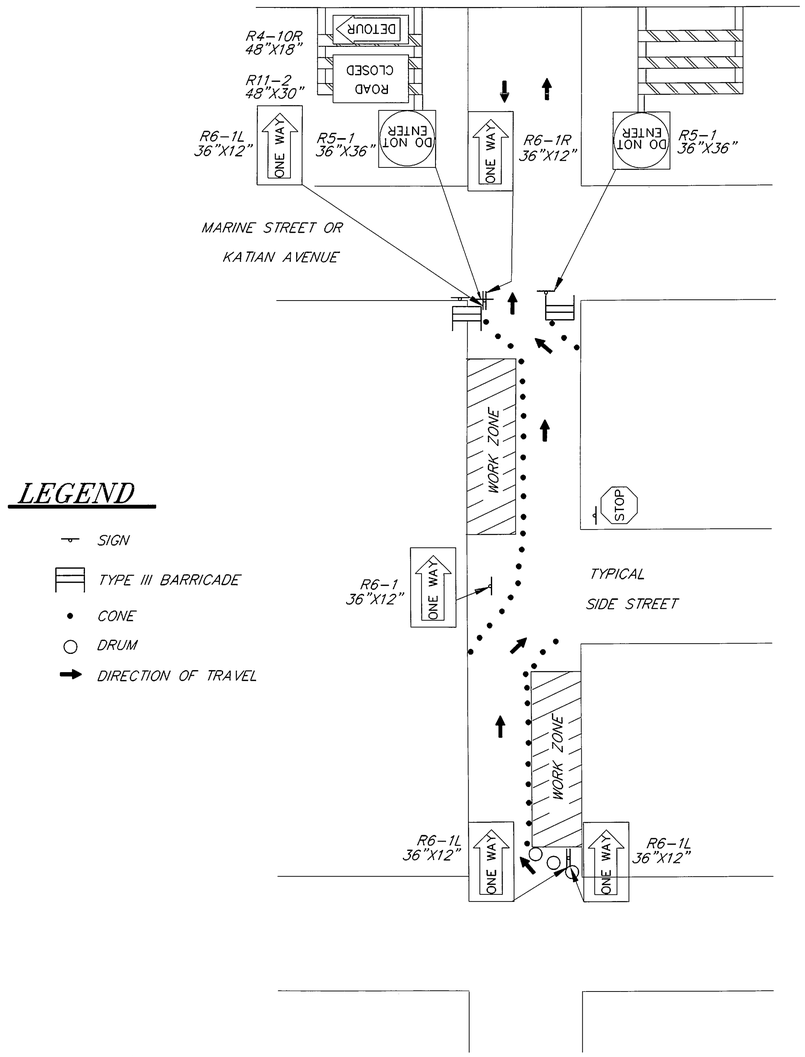
ENGINEER'S SEAL
STATE OF ALASKA
9/14/94
49th
K. SMITH
CE-7347
REGISTERED PROFESSIONAL ENGINEER



SPECIAL SIGN "A"
BLACK ON ORANGE
1 REQUIRED



SPECIAL SIGN "B"
BLACK ON ORANGE
1 REQUIRED



LEGEND

- SIGN
- TYPE III BARRICADE
- CONE
- DRUM
- DIRECTION OF TRAVEL

DETAIL
TYPICAL ONE-LANE, ONE WAY DETOUR

AS-BUILT
BY: B.A. DATE: 4-9-96

P:\SIT\70606\99\PLANSET\#SIGN

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
PATH: P:\SIT\ERLER\DR\SIGN 1=8		
BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU — *SIT-ERLER TO PETERSON IMPROVEMENTS* — ALASKA
NH 099-3(3) 70606

TRAFFIC CONTROL PLAN

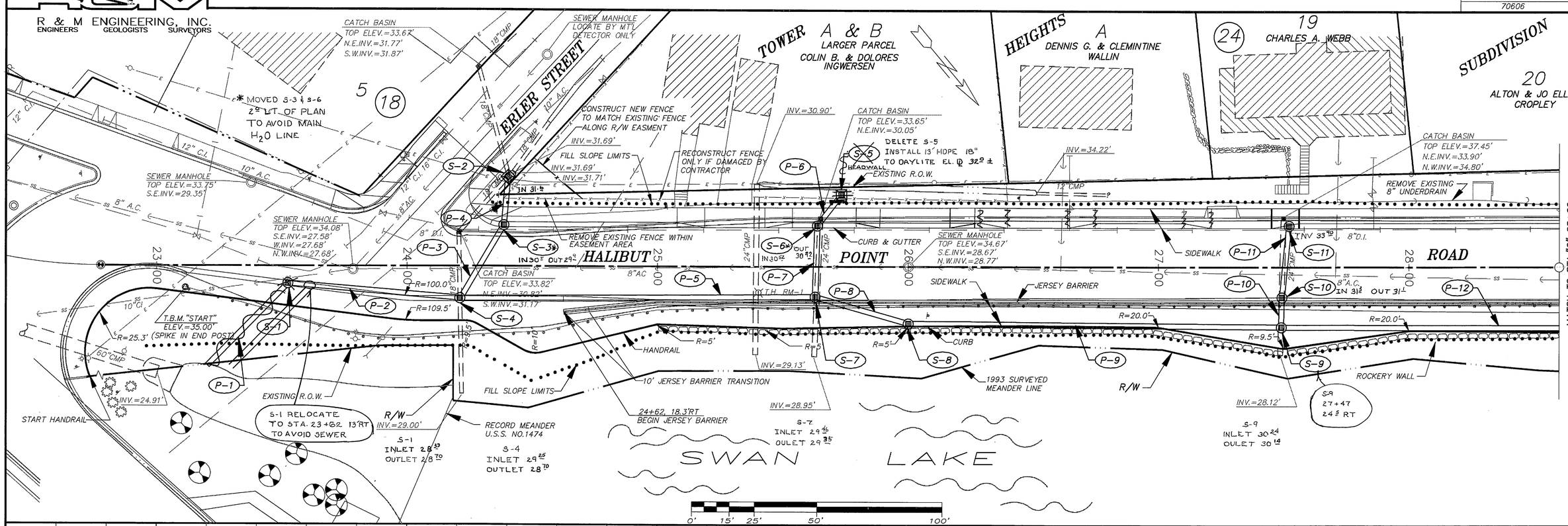
DESIGNED BY: J.A.	PROJECT NO. 70606
DRAWN BY: K.K.	DATE: SEPT 1994
CHECKED BY: K.S.	SHEET 15C OF 106

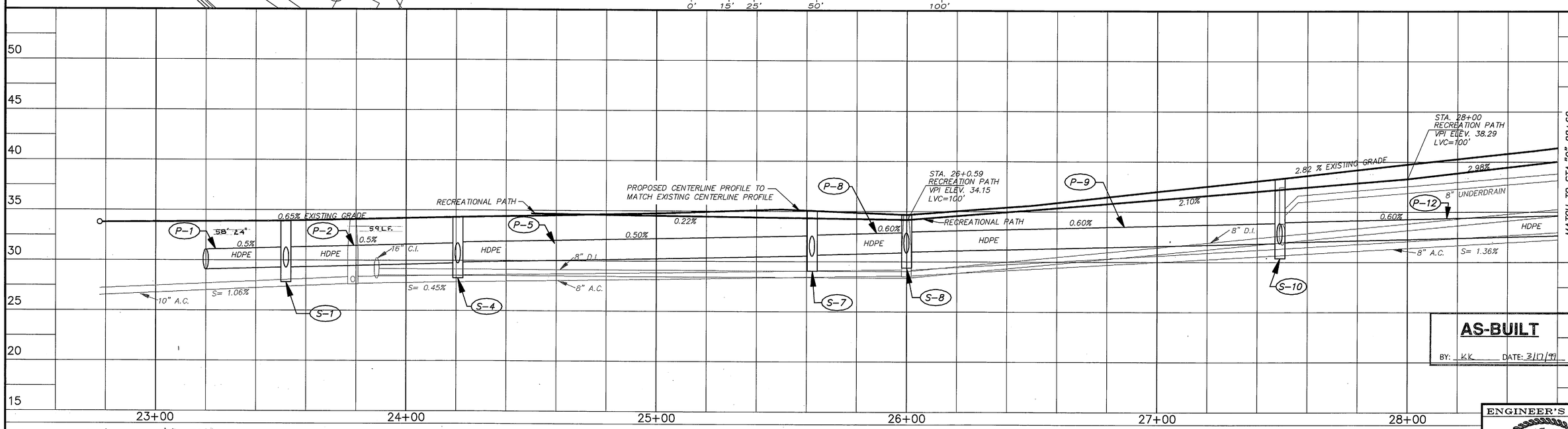
ENGINEER'S SEAL
STATE OF ALASKA
3/14/99
49th
K. SMITH
CE-7347
REGISTERED PROFESSIONAL ENGINEER

R&M

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994





AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\#5ITPP05
R&M #921374/SIT-PP05.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/5	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS.

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
PLAN & PROFILE
B.O.P. TO STA. 28+60

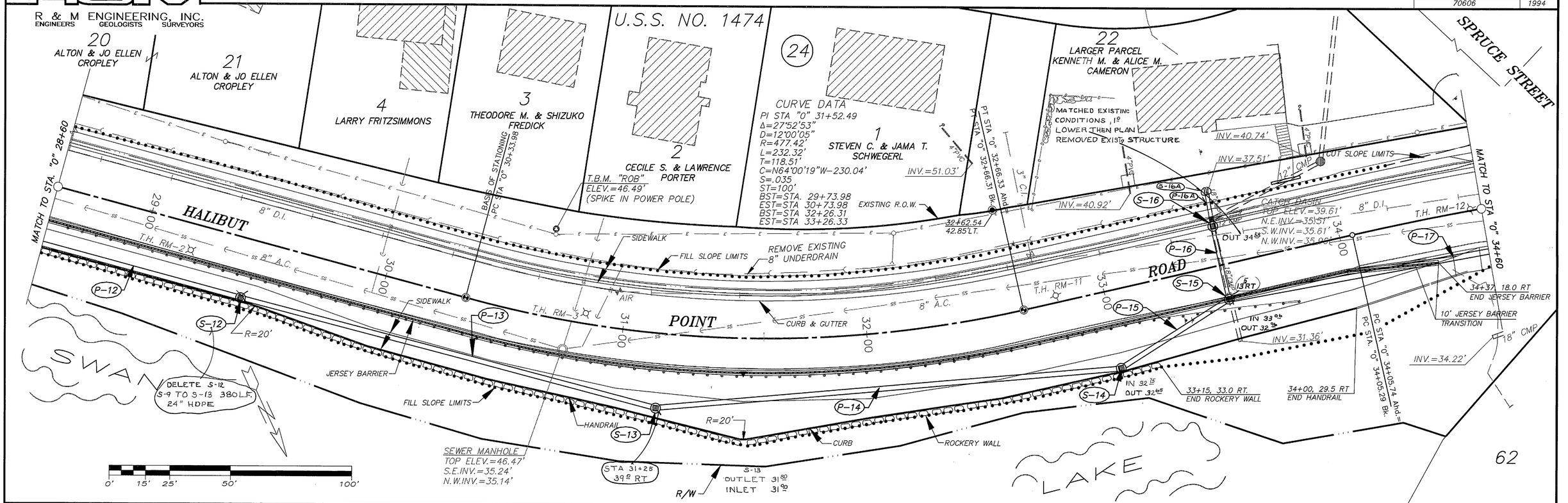
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 16 OF 106

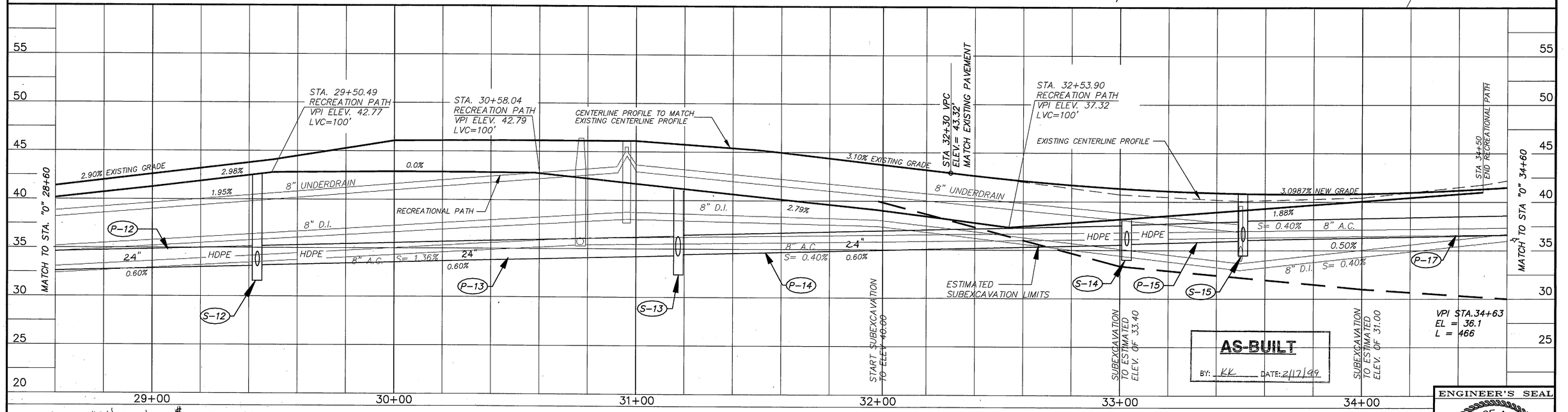
ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-16

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994





P:\SIT\70606\94\PLANSET\SITPP06
R&M #921374/SIT-PP06.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/14	P.S. & EE. REVIEW CHANGES
KK	3/17/99	AS-BUILT W/TH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
PLAN & PROFILE
STA."0"28+60 TO STA."0"34+60

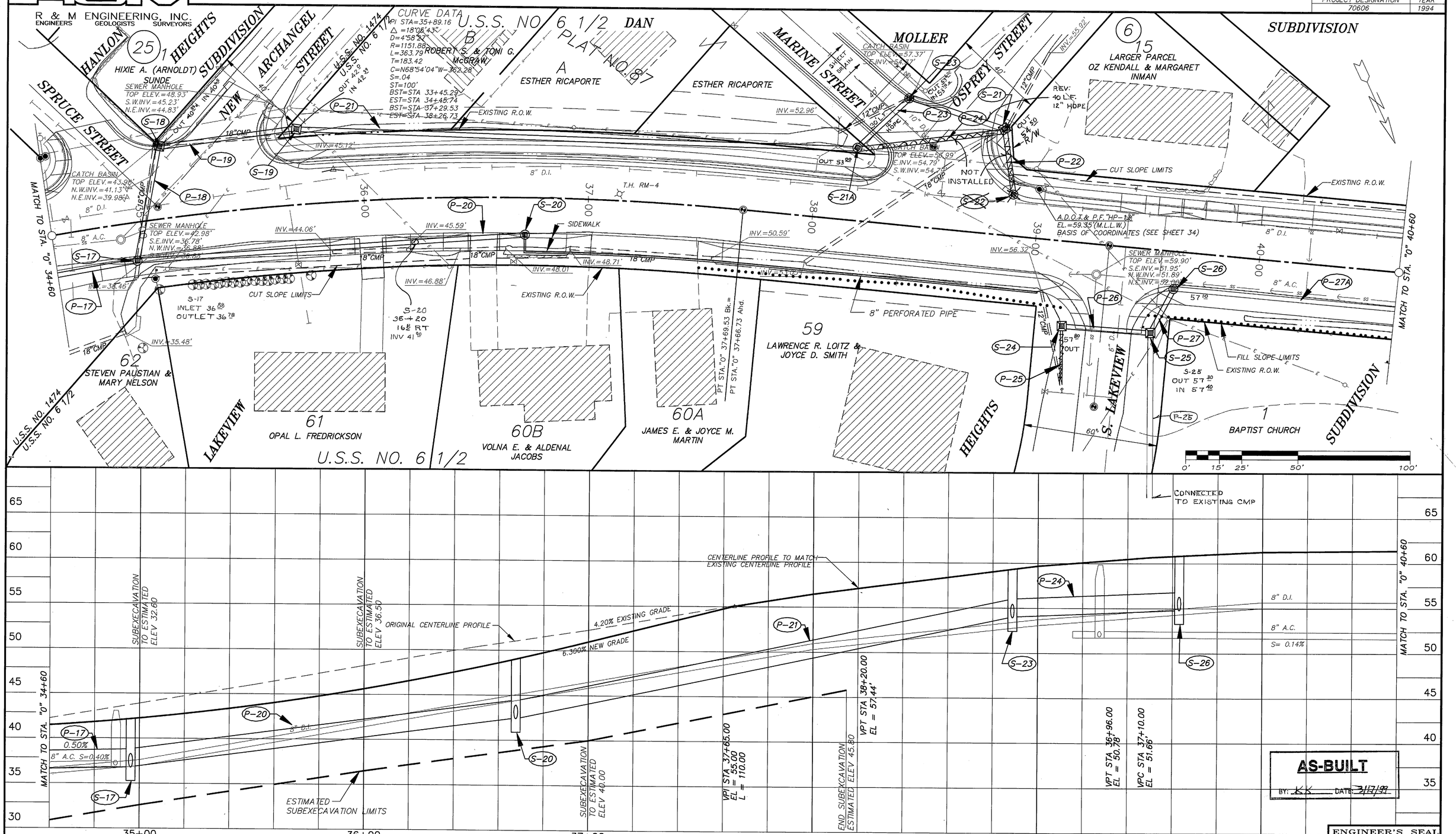
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 17 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-17

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\99\PLANSET\SITPP07
R&M #921374/SIT_PP07.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1859-CE
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
NH 099—3(3) 70606

PLAN & PROFILE

STA."0"34+60 TO STA."0"40+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 18 OF 106

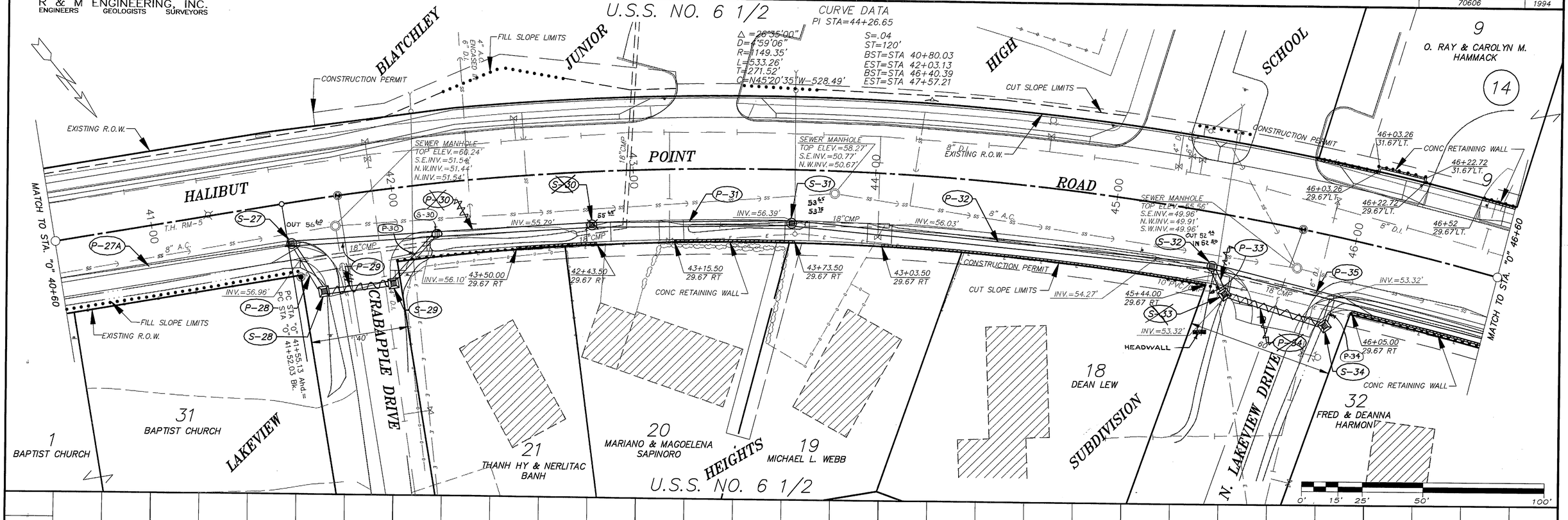
FILE: O.S. 206-18

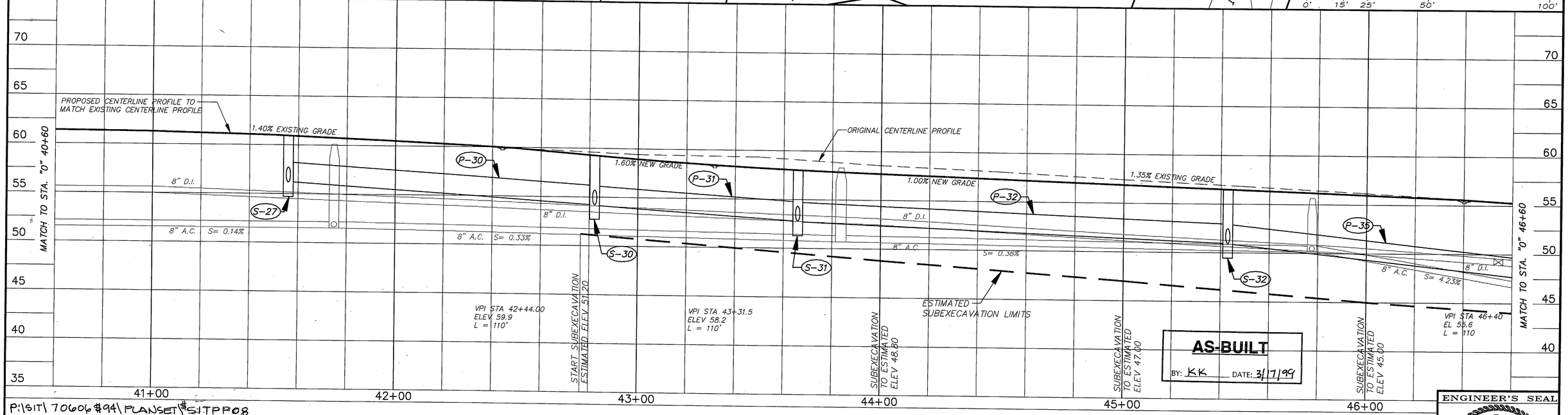
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

U.S.S. NO. 6 1/2

CURVE DATA
PI STA=44+26.65
Δ =26°35'00"
D=4°59'06"
R=1149.35'
L=533.26'
T=271.52'
C=N45°20'35"W-528.49'
S=.04
ST=120'
BST=STA 40+80.03
EST=STA 42+03.13
BST=STA 46+40.39
EST=STA 47+57.21





AS-BUILT
BY: K.K. DATE: 3/17/99

P:\SIT\70606#94\PLANSET\SITPP08
R&M #921374/SIT-PP08.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/12	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: O.S. 206-19

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
PLAN & PROFILE
STA."0"40+60 TO STA."0"46+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 19 OF 106

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

PROJECT DESIGNATION	YEAR
70606	1994

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

U.S.S. NO. 6 1/2

P. B. & L. SUBDIVISION RE-SUBDIVISION OF DAN MOLLER SUBDIVISION

9 DAN | 8 O. RAY & CAROLYN M. HAMMACK | 7 O. RAY & CAROLYN M. HAMMACK | A LAKESIDE GROCERY | 3 MICHAEL K.SNOWDEN | 2 MICHAEL K.SNOWDEN | 1 MICHAEL K.SNOWDEN

14

STORM DRAIN
TOP ELEV.=51.22'
N.E.INV.=42.90'
S.W.INV.=42.77'

CONC RETAINING WALL

CONSTRUCTION PERMIT

EXISTING SPIGOT & WATER VALVE IN 24" CMP. REPLACE WITH VALVE AND CURB BOX.

CONC RETAINING WALL

water spigot in 24" cmp

51+41.00
84.00' LT

60'

KATLIAN AVE.

12" C.I.

CATCH BASIN
TOP ELEV.=43.89'
N.E.INV.=40.29'

PI STA=52+01.50
I=0°00'20" R

MATCH TO STA. "0" 46+60

8" C.I.

T.H. RM-6

HALIBUT POINT ROAD

T.H. RM-7

SEWER MANHOLE
TOP ELEV.=52.50'
S.E.INV.=41.10'
N.W.INV.=41.00'
S.W.INV.=41.20'

SEWER MANHOLE
TOP ELEV.=42.44'
S.E.INV.=36.84'
N.W.INV.=36.74'
N.E.INV.=36.79'

MATCH TO STA. "0" 52+60

EXISTING R.O.W. 8" A.C.

CURB & GUTTER

8" A.C.

SIDEWALK

INV.=41.43'

51+66.00
29.67' RT
END CONC WALL

18" CMP

24" CMP

INV.=50.39'

46+84.0
29.67' RT

47+20.00
29.67' RT
BEGIN EARTH REINFORCED WALL

INV.=43.81'

HEADWALL

FILL SLOPE LIMITS

48+94.10
29.67' LT

49+34.10
29.67' LT

49+76.40
29.67' LT

50+22.40
29.67' LT

5046.30
29.67' LT

50+84.30
29.67' LT

49+11.50
29.67' RT
END EARTH REINFORCED WALL

49+47.50
29.67' RT
BGN CONC WALL

EXISTING R.O.W.

CONSTRUCTION PERMIT
CUT SLOPE LIMITS

CONC RETAINING WALL

STORM DRAIN
TOP ELEV.=43.76'
S.W.INV.=38.68'
S.E.INV.=41.01'
N.E.INV.=38.86'
N.W.INV.=38.56'

INV.=42.21'

LAKEVIEW HEIGHTS SUBDIVISION

32 FRED & DEANNA HARMON

33 BRENT G. BUCKLAND

P.T. STA. "0" 46+88.39 Bk.
P.T. STA=46+85.21 Ahd.

MOLLER

MOLLER ST

PARK

0' 15' 25' 50' 100'

P-35 P-35A P-36 P-37 P-38 P-39 P-40 P-41

S-35 S-36 S-37 S-38 S-39 S-40 S-41

60 55 50 45 40 35 30 25

MATCH TO STA. "0" 46+60

1.80% EXISTING GRADE

PROPOSED CENTERLINE PROFILE TO MATCH EXISTING CENTERLINE PROFILE

3.15% EXISTING GRADE

8" C.I.

8" A.C. S= 4.23%

ESTIMATED SUBEXCAVATION LIMITS

END SUBEXCAVATION ESTIMATED ELEV 43.00 ELEV 40.00

S= 1.04% 8" A.C.

8" C.I.

8" A.C. S= 1.04%

8" A.C. S= 3.03%

14" C.I.

MATCH TO STA. "0" 52+60

47+00 48+00 49+00 50+00 51+00 52+00

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\#94\PLANSET\#SITPP09.
R&M #921374/SIT-PP09.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/1	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

PLAN & PROFILE

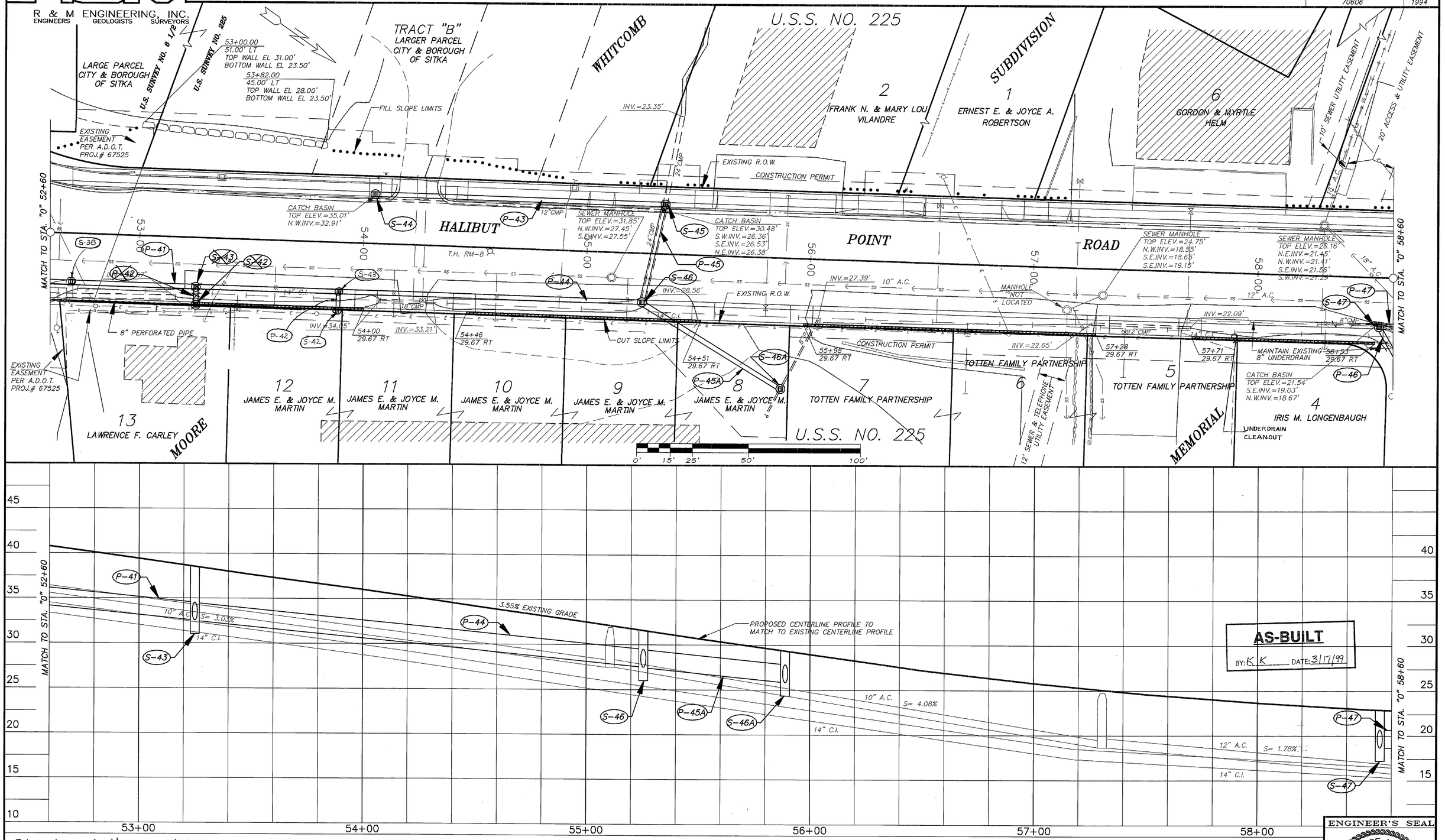
STA."0"46+60 TO STA."0"52+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 20 OF 106

FILE: O.S. 206-20

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



P:\SIT\70606\94\PLANSET\#SITPP10
R&M #921374/SIT-PP10.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/15	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT W/ CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

PLAN & PROFILE

STA."0"52+60 TO STA."0"58+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 21 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
20TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-21

PROJECT DESIGNATION	YEAR
70606	1994

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

U.S.S. NO. 225

C — KEITH, INEZ & MICHAEL SNOWDEN

B — KEITH, INEZ & MICHAEL SNOWDEN

1 — OWNER: KEITH, INEZ & MICHAEL SNOWDEN
LESSEE: McDONALD'S CORPORATION

OWNER: MURRAY LACOUR
LESSEE: McDONALD'S CORPORATION

16 U.S.S. NO. 3303

1 MURRAY LACOUR

WHITCOMB

BRADY STREET

MOORE

HALIBUT POINT ROAD

MEMORIAL

PETERSON AVE

KEN BROWN SUBDIVISION

KIMSHAM SUBDIVISION

U.S.S. NO. 225 BLOCK B

10A ET AL SNOWDEN

8A ET AL SNOWDEN

11 FRANK A. & GEORGINA L. ROGERS

7 KEITH, INEZ & MICHAEL SNOWDEN

6 GENE L. PREWITT

U.S.S. NO. 3303

U.S.S.NO.225

U.S.S.NO.3303

PARKING AND ACCESS EASEMENT

REMOVE EXISTING AND AND CONSTRUCT NEW CONCRETE STAIRS

CONSTRUCT NEW CONCRETE STAIRS, THE ENGINEER WILL LOCATE IN THE FIELD

DELETED

REMOVE STAIRS

CONC RETAINING WALL

EXISTING R.O.W.

R/W EASEMENT

CONSTRUCTION PERMIT

EXISTING R/W LIMITS

REMOVE AND DISPOSE

REMOVE AND REPLACE EXISTING

RELOCATE AND ADJUST F.H. PER SHEET 43

MAINTAIN EXISTING 8" UNDERDRAIN

FIELD INLET

CONSTRUCTION PERMIT

FILL SLOPE LIMITS

EASEMENT LINE

EXISTING CURB INLET

MATCH TO STA. "0" 58+60

POL STA "0" 66+15.67 Bk.
POL STA "0" 66+15.59 Ahd.

END PROJECT STA."0"64+35.00 AHD. MATCH TO EXISTING

SEWER MANHOLE TOP ELEV.=32.37' S.E.INV.=16.27' N.W.INV.=16.12' S.W.INV.=15.72'

CATCH BASIN TOP ELEV.=21.57' N.W.INV.=19.47'

STORM DRAIN TOP ELEV.=21.89' N.W.INV.=17.91' S.E.INV.=17.96' N.E.INV.=18.41'

CATCH BASIN TOP ELEV.=20.90' N.W.INV.=16.20' S.E.INV.=16.50'

CATCH BASIN TOP ELEV.=21.56' S.E.INV.=19.76'

CATCH BASIN TOP ELEV.=27.36' S.E.INV.=24.96'

SEWER MANHOLE TOP ELEV.=27.42' S.E.INV.=21.17' N.W.INV.=21.19' N.E.INV.=21.20'

CATCH BASIN TOP ELEV.=25.18' N.E.INV.=21.99' N.W.INV.=22.24' N.W.INV.=22.06' S.E.INV.=21.98'

CATCH BASIN TOP ELEV.=25.61' N.W.INV.=21.66'

STORM DRAIN TOP ELEV.=26.16' N.E.INV.=21.45' N.W.INV.=21.31' S.E.INV.=21.56' S.W.INV.=21.31'

CATCH BASIN TOP ELEV.=25.52' S.E.INV.=21.67'

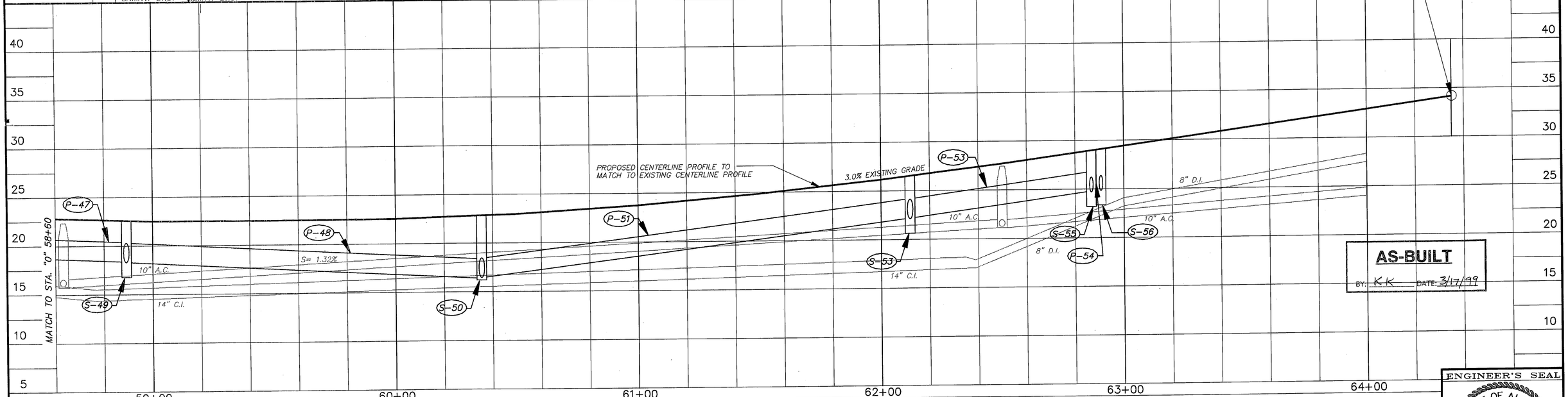
S-47A, S-48A, S-49A, S-NEW, S-47, S-48, S-49, S-50, S-51, S-52, S-53, S-54, S-55, S-56

P-46, P-46B, P-47, P-48, P-48A, P-49, P-50, P-51, P-52, P-52A, P-53, P-54

59+47 47.49' LT; 60+20 47.49' LT; 60+82 29.67' LT; 62+00 29.67' LT

59+24.00 29.67' RT; 59+80.00 29.67' RT; 59+80.00 34.67' RT; 60+07.00 29.67' RT; 60+07.00 34.67' RT; 60+62.00 29.67' RT; 61+09.00 29.67' RT; 61+48.00 29.67' RT

0' 15' 25' 50' 100'



AS-BUILT
BY: K K DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606#94\PLANSET\#SIT_PP11
R&M #921374/SIT_PP11.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

PLAN & PROFILE
STA."0"58+60 TO E.O.P.

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 22 OF 106

FILE: O.S. 206-22

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

18
5
ERLER STREET
MATCH EXISTING PAVEMENT
24+20.57
48.83'LT.
R=MATCH EXIST.
STA."0"22+77.66 AHD.
ELEV.=33.77'
(FIELD VERIFY)
23+69.4
22.5'LT.
(FIELD VERIFY)
N 59°00'04" W - 1,595.16' TO "HP-13"
NEW CURB & GUTTER
R=MATCH EXISTING
T.B.M. "START"
ELEV.=35.00'
(SPIKE IN END POST
EXISTING GUARDRAIL)
EXISTING R.O.W.
R/W
RECORD MEANDER
U.S.S. NO.1474
24+62.5 17.0'RT.
BGN JERSEY BARRIER
25+00 24.0'RT.
BGN ROCKERY WALL
SAW-CUT EXISTING PAVEMENT
R=12.0'
SAW-CUT
FILL SLOPE (Typ.)
A & B
LARGER PARCEL
COLIN B. & DOLORES
INGWERSEN
A
DENNIS G. & CLEMINTINE
WALLIN
24
U.S.S. NO. 1474
19
CHARLES A. WEBB
20
ALTON & JO ELLEN
CROPLEY
SAW-CUT EXISTING PAVEMENT
23+00
24+00
25+00
26+00
27+00
28+00
GRND
HALIBUT
POINT
ROAD
D-1
D-2
D-3
11.0'
JERSEY BARRIER (TYP)
HAND RAIL (Typ.)
FILL SLOPE (Typ.)
CURB
SAW-CUT EXISTING PAVEMENT
ROCKERY WALL (Typ.)
R/W
MATCH TO STA."0" 28+60
SWAN LAKE

REMOVE EXISTING PAVEMENT
ASPHALT GRINDING
GRADE TO EXISTING GRAVEL
SAW-CUT, REMOVE AND REPLACE EXISTING CONCRETE DRIVEWAY

0' 15' 25' 50' 100'

20
21
TOWER
4
3
2
U.S.S. NO. 1474
HEIGHTS
24
1
22
SUBDIVISION
SPRUCE STREET
MATCH TO STA. "0" 28+60
MATCH TO SHEET NO. 41 STA "0" 34+60
GRND
29+00
HALIBUT
11.0'
30+00
31+00
32+00
33+00
34+00
D-4
ROAD
POINT
BASIS OF STATIONING
PC STA "0" 30+33.98
T.B.M. "ROB"
ELEV.=46.49'
(SPIKE IN POWER POLE)
EXISTING R.O.W.
SIDEWALK
FILL SLOPE LIMITS
PT STA "0" 32+66.33 Ahd
PT STA "0" 32+66.31 Bk.
CUT SLOPE (Typ.)
JERSEY BARRIER (Typ.)
CURB & GUTTER
SAW-CUT EXISTING PAVEMENT
"HP-13"
N 69°46'07" W - 632.29'
PC STA "0" 34+05.74 Ahd
PC STA "0" 34+05.29 Bk.
34+37, 18.0 RT
END JERSEY BARRIER
33+15, 33.0 RT.
END ROCKERY WALL
34+00, 29.5 RT
END HANDRAIL
FILL SLOPE LIMITS
1993 SURVEYED MEANDER LINE
R/W
CURB
HANDRAIL (TYP)
ROCKERY WALL
SWAN LAKE

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606\99\PLANSET\#SIT-CP1
R&M #921374/SIT-CP1.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/1	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ROADWAY CONSTRUCTION PLAN
B.O.P. TO STA."0"34+60

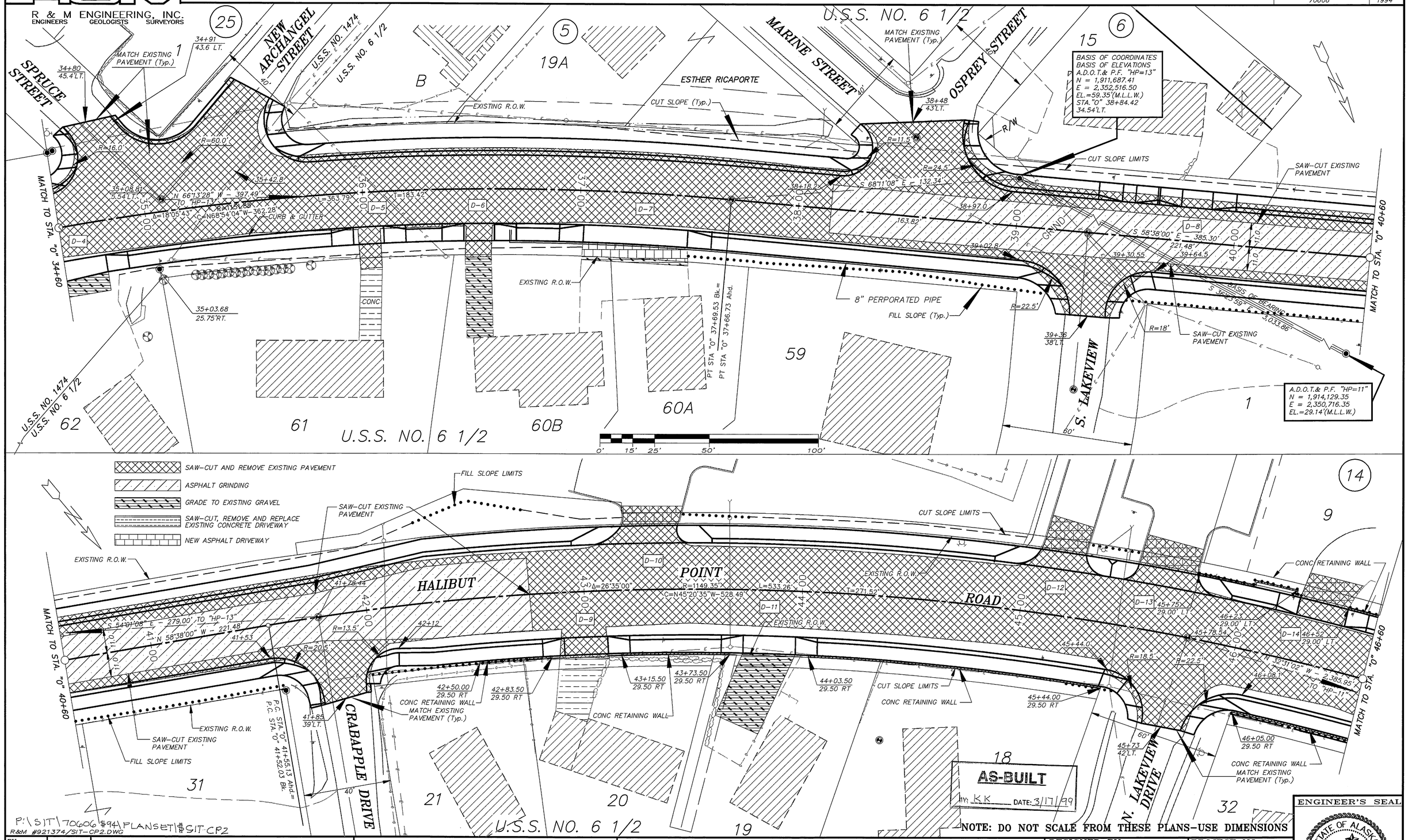
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 23 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter
No. 1841-E
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-23

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



P:\SIT\70606\94\PLANSET\SIT-CP2
R&M #921374/SIT-CP2.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/26	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ROADWAY CONSTRUCTION PLAN
STA."O"34+60 TO STA."O"46+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 24 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
IRVIN G. PORTER
LS 3085
REGISTERED PROFESSIONAL LAND SURVEYOR

FILE: O.S. 206-24

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

U.S.S. NO. 6 1/2

14

P. B. & L. SUBDIVISION
RE-SUBDIVISION OF
DAN MOLLER

9 8 7 A 3 2 1

48+94, 29.5'LT.
END CONC. WALL

49+34, 29.5'LT.
BGN. CONC. WALL

49+76, 29.5'LT.
END CONC. WALL

50+22, 29.5'LT.
BGN. CONC. WALL

50+46, 29.5'LT.
END CONC. WALL

50+84, 29.5'LT.
BGN. CONC. WALL

51+41, 84.0'LT.
END CONC. WALL

MATCH EXISTING
PAVEMENT (Typ.)

KATLIAN AVE. 60'

51+72
81.5'LT.

R/W LIMITS AS PER
STATE OF ALASKA
PROJECT No. 67525

SAW-CUT EXISTING
PAVEMENT

FILL SLOPE LIMITS

CONC RETAINING WALL

EXISTING R.O.W.

CONC RETAINING WALL

CONC RETAINING WALL

CONC RETAINING WALL

MATCH TO STA. "0" 46+60

S 48°04'07" E
782.39'
TO "HP-13"

D-15

47+00

16.5'

16.5'

HALIBUT GRIND

48+00

D-16

49+00

D-17

POINT

N 32°03'05" W - 516.29'

D-18

50+00

D-19

51+04.1

51+00

GRIND

ROAD

52+00

N 32°30'47" W - 1,756.96'
TO "HP-11"

R=45.5'

R=93.5'

PI STA=52+01.50
Δ=0°00'20" R

51+64.6

R=28.5'

R=54.0'

MATCH TO STA. "0" 52+60

R/W

47+20, 29.5'RT.
BGN. EARTH WALL

47+56.30
29.12'RT.

SAW-CUT EXISTING
PAVEMENT

FILL SLOPE LIMITS

49+11, 29.5'RT.
END EARTH WALL

49+48, 29.5'RT.
BGN. CONC. WALL

EXISTING R.O.W.
CUT SLOPE LIMITS

CONC RETAINING WALL

51+60, 29.5'RT.
END CONC. WALL

MOLLER DR.

EXISTING EASEMENT PER
STATE OF ALASKA
PROJECT NO. 67525

52+29
73.8'RT.

MATCH EXISTING
PAVEMENT (Typ.)

SAW-CUT AND REMOVE EXISTING PAVEMENT
ASPHALT GRINDING
GRADE TO EXISTING GRAVEL
SAW-CUT, REMOVE AND REPLACE
EXISTING CONCRETE DRIVEWAY
NEW ASPHALT DRIVEWAY

0' 15' 25' 50' 100'

32 33

PT STA "O" 46+88.39 Bk. =
PT STA "O" 46+85.21 Ahd.

U.S.S. NO. 6 1/2

U.S.S.NO.6 1/2 / U.S.S.NO.225

CITY & BOROUGH OF SITKA

53+00.00
51.00' LT
TOP WALL EL 31.00'
BOTTOM WALL EL 23.50'

53+82.00
45.00' LT
TOP WALL EL 28.00'
BOTTOM WALL EL 23.50'

TRACT "B"

FILL SLOPE LIMITS

U.S.S. NO. 225

2 1 6

EXISTING
EASEMENT
PER A.D.O.T.
PROJ.# 67525

SAW-CUT EXISTING
PAVEMENT

EXISTING R.O.W.

PAINT PARKING STRIPES
AT 60 DEG. AS SHOWN
SEE DETAIL SHEET 26.

MATCH TO STA. "0" 52+60

52+79.1

53+00

16.5'

16.5'

52+72.8

HALIBUT GRIND

54+00

D-21

D-20

55+00

D-22

D-23

POINT

56+00

D-24

ROAD

57+00

D-26

D-25

GRIND

58+00

58+52.9

MATCH TO STA. "0" 58+60

EXISTING R.O.W.

SAW-CUT EXISTING
PAVEMENT

8" PERFORATED PIPE

54+00
29.50 RT

54+46
29.50 RT

CUT SLOPE LIMITS

54+51
29.50 RT

55+98
29.50 RT

57+28
29.50 RT

57+71
29.50 RT

58+53
29.50 RT

12' SEWER & TELEPHONE
UTILITY EASEMENT

EXISTING
EASEMENT
PER A.D.O.T.
PROJ.# 67525

13 12 11 10 9 8 7 6 5 4

U.S.S. NO. 225

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606#94\PLANSET\#SITCP3
R&M #921374/SIT-CP3.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/25	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

ROADWAY CONSTRUCTION PLAN
STA. "0"46+60 TO STA. "0"58+60

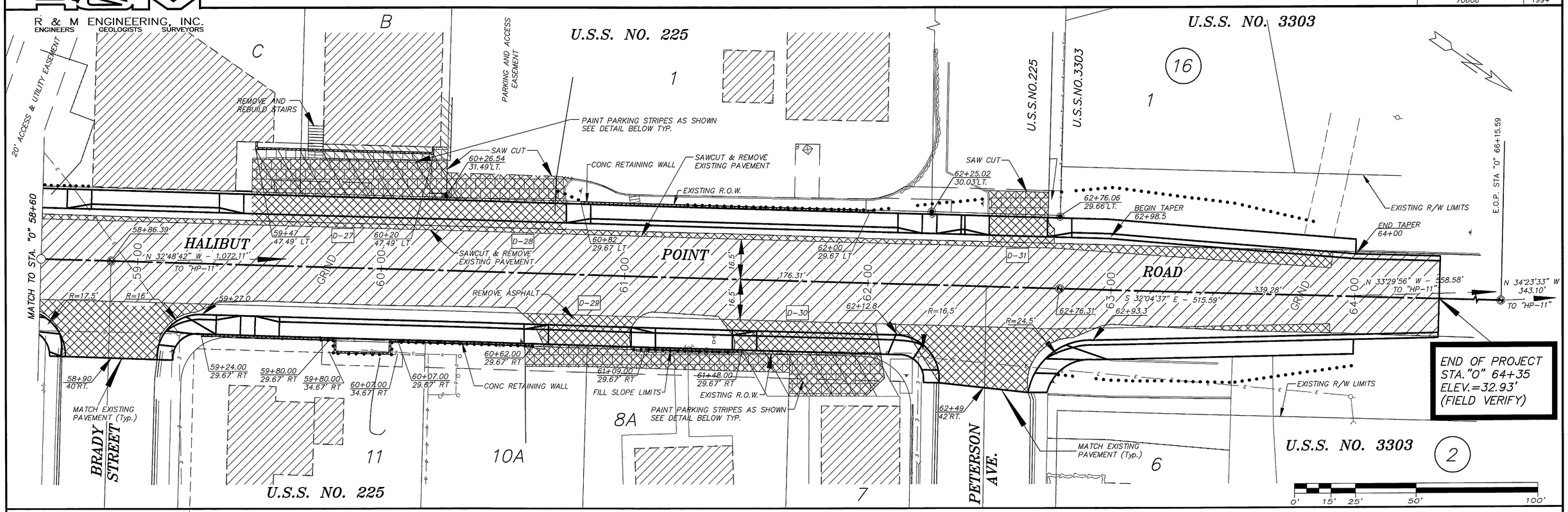
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 25 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
IRVIN G. PORTER
LS / 3085
REGISTERED PROFESSIONAL LAND SURVEYOR

FILE: O.S. 206-25

PROJECT DESIGNATION	YEAR
70606	1994

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS



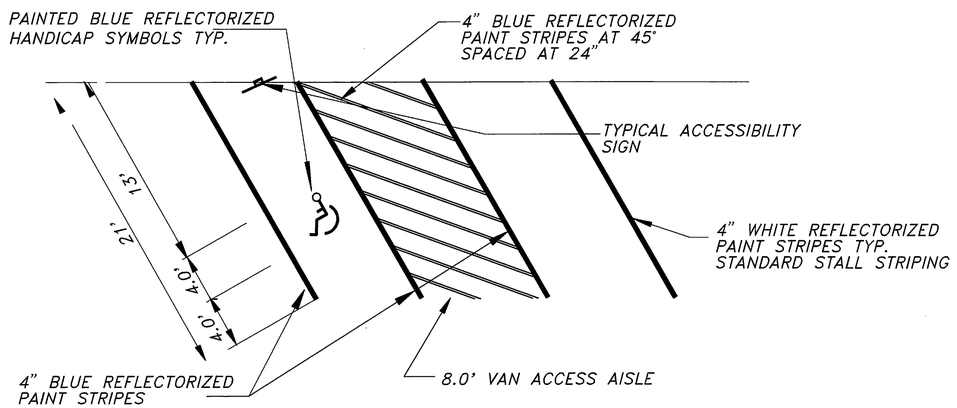
SAW-CUT AND REMOVE EXISTING PAVEMENT

ASPHALT GRINDING

GRADE TO EXISTING GRAVEL

SAW-CUT, REMOVE AND REPLACE EXISTING CONCRETE DRIVEWAY

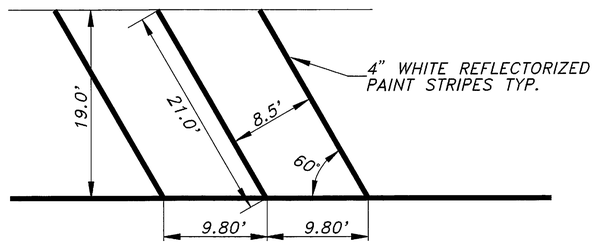
NEW ASPHALT DRIVEWAY



ACCESSIBLE PARKING STALL

STA. 59+60 30'LT

N.T.S.



DIAGONAL PARKING STALL

N.T.S.

P:\SIT\70606#94\PLANSET\#SIT CP4
R&M #921374/SIT-CP4.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/1	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ROADWAY CONSTRUCTION PLAN
STA."O"58+60 TO STA."O"E.O.P.

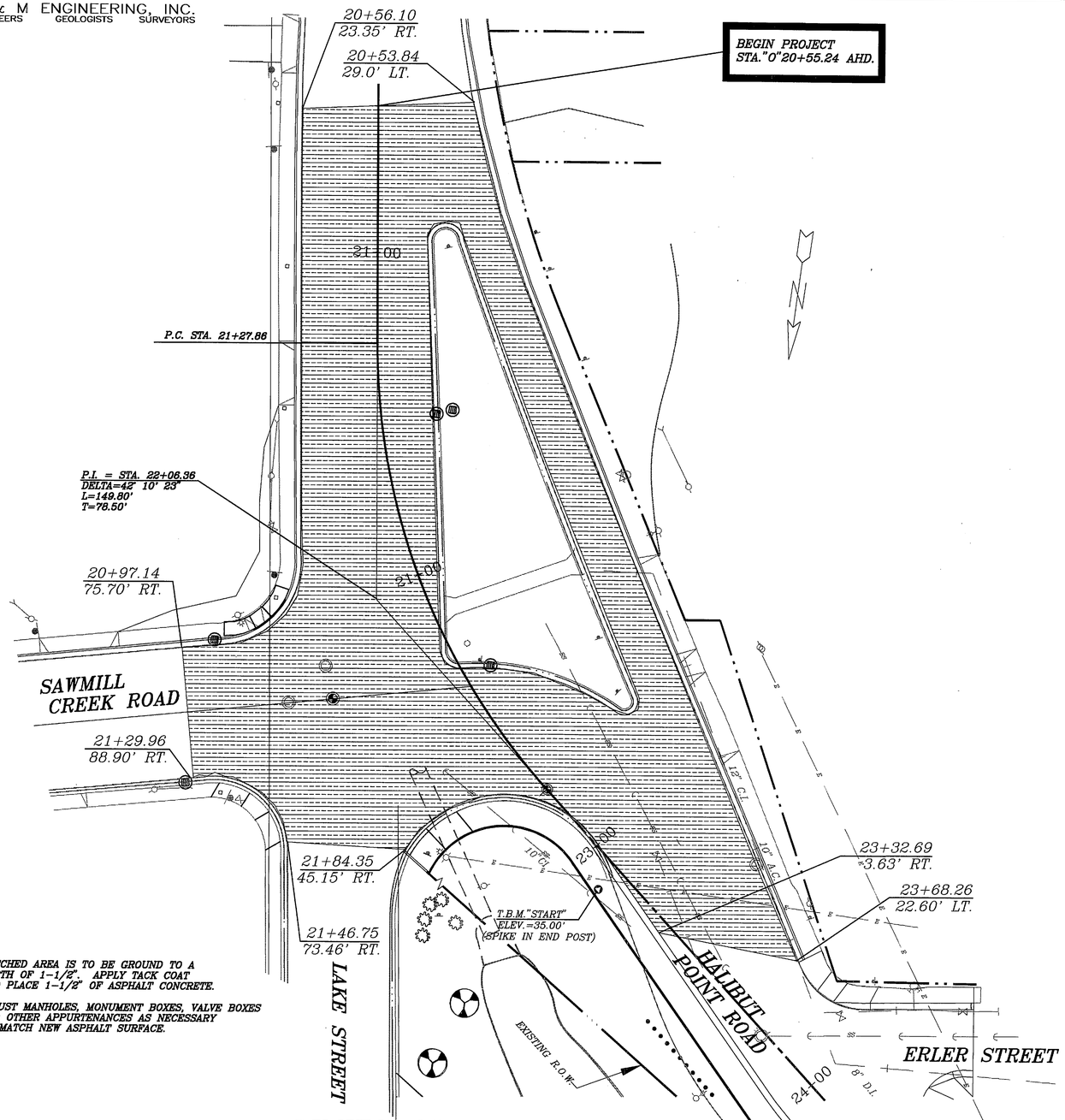
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 26 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
IRVIN G. PORTER LS # 3085
REGISTERED PROFESSIONAL LAND SURVEYOR

FILE: O.S. 206-26

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

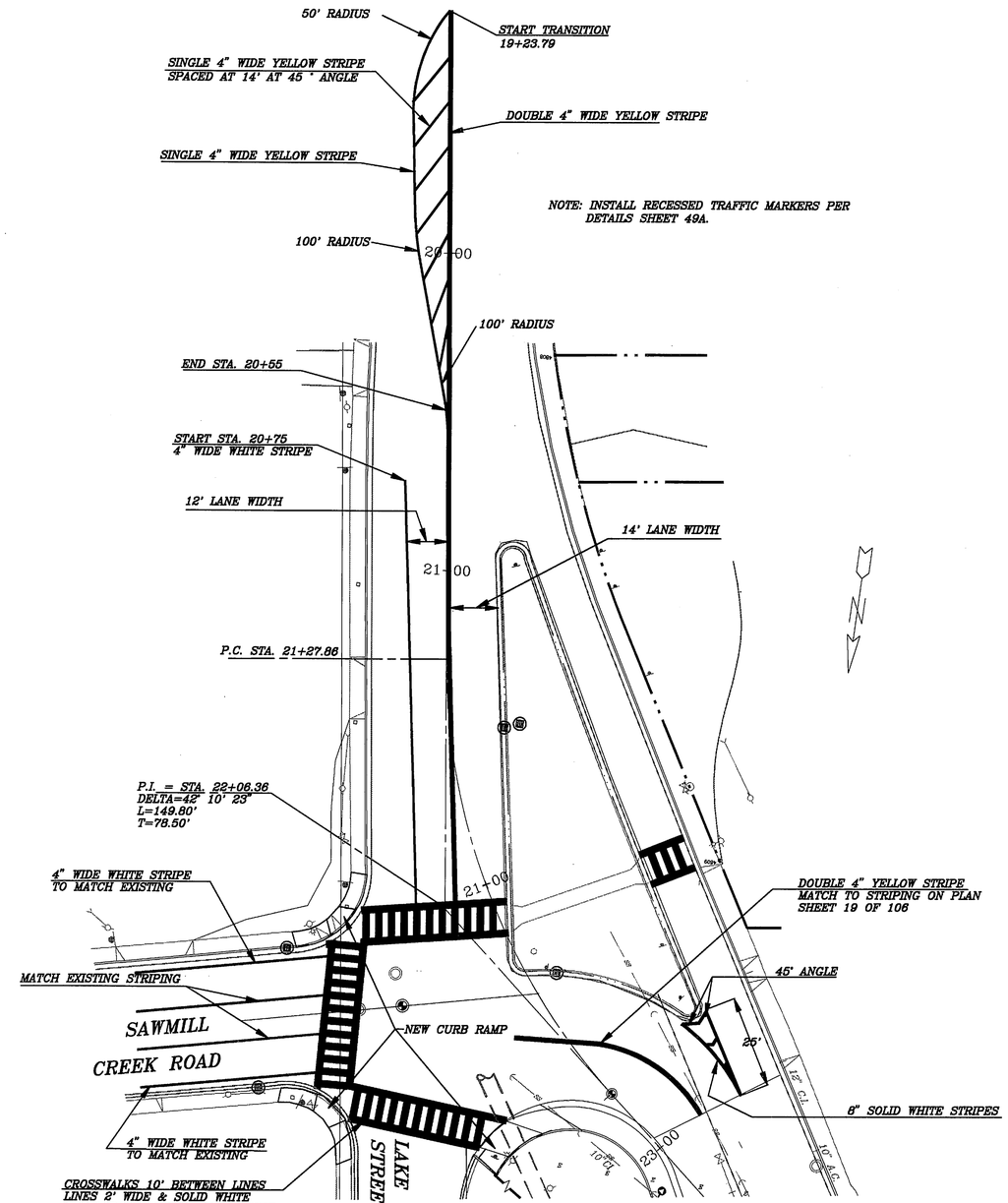
PROJECT DESIGNATION	YEAR
70606	1994



NOTE: HATCHED AREA IS TO BE GROUND TO A DEPTH OF 1-1/2". APPLY TACK COAT AND PLACE 1-1/2" OF ASPHALT CONCRETE.

ADJUST MANHOLES, MONUMENT BOXES, VALVE BOXES AND OTHER APPURTENANCES AS NECESSARY TO MATCH NEW ASPHALT SURFACE.

LIMITS OF PAVEMENT OVERLAY & GRINDING



AS-BUILT
BY: K.K DATE: 3/17/99

STRIPING PLAN

N.T.S.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606B94\PLANSET\#SITOVER
R&M #921374/SIT-OVER.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW COMMENTS
K.K.	3/17/99	AS BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

PAVEMENT OVERLAY
HPR-LAKE ST.-SAWMILL CR. ROAD INTERSECTION

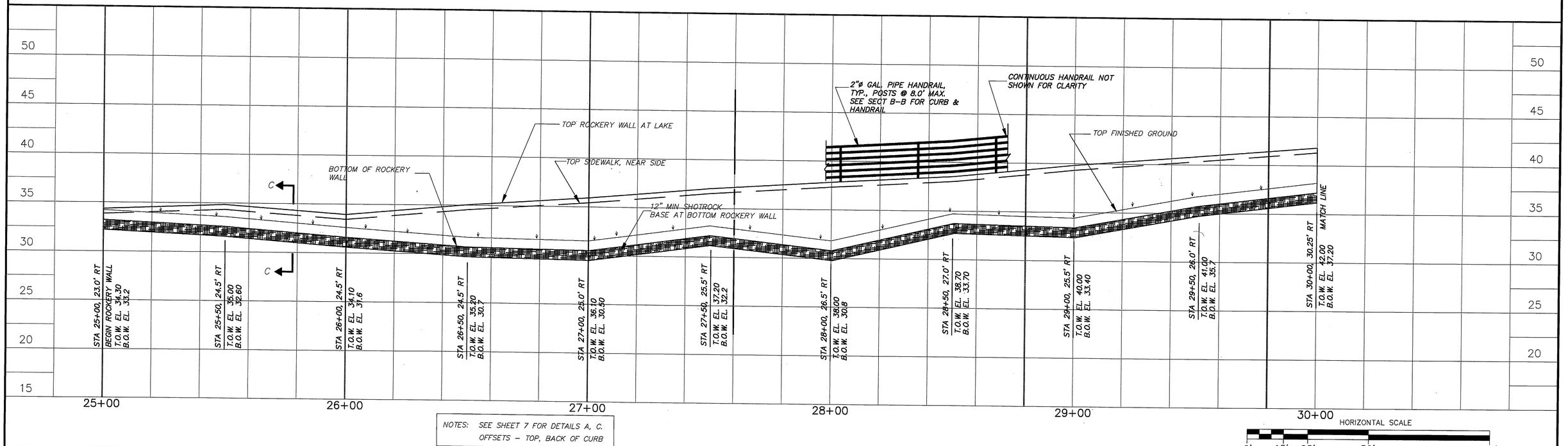
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 27 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1665-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-27

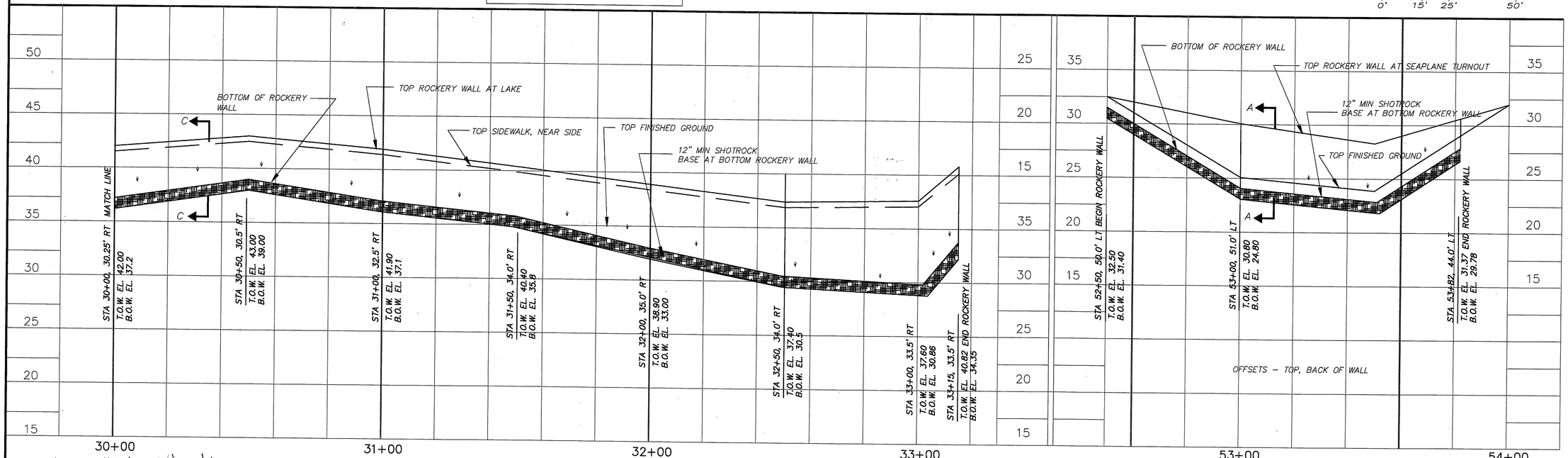
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



NOTES: SEE SHEET 7 FOR DETAILS A, C.
OFFSETS – TOP, BACK OF CURB

HORIZONTAL SCALE
0' 15' 25' 50' 100'



AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\#STWALZA
R&M #921374/SITWALZA.DWG 1:20

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW COMMENTS
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

FILE: O.S. 206-37

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

WALL ELEVATIONS

ROCKERY WALL STA. 25+00 TO 33+15 RT.; STA. 53+00 TO 54+00 RT.

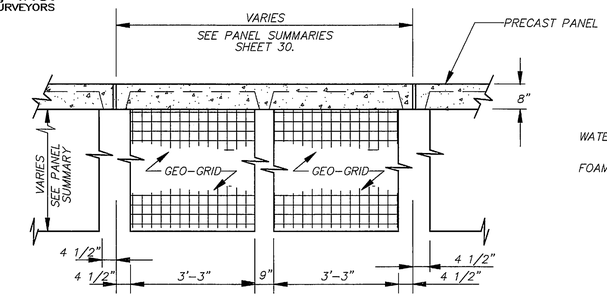
DESIGNED BY: K.J.W./I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ K.J.W.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 28 OF 106

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

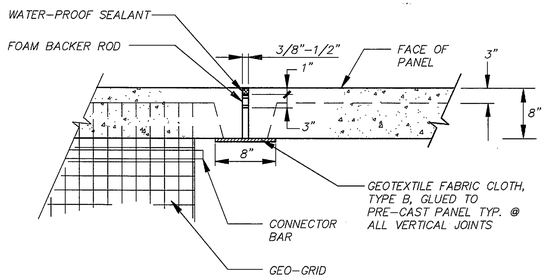
PROJECT DESIGNATION	YEAR
70606	1994

ABBREVIATIONS

@	AT
B.O.W.	BOTTOM OF WALL
C.L.	CENTERLINE
DET.	DETAIL
DIA., ø	DIAMETER
EA.	EACH
EL.	ELEVATION
EXIST.	EXISTING
EXP.	EXPANSION
FT.	FOOT, FEET
GALV.	GALVANIZED
HORIZ.	HORIZONTAL
JT.	JOINT
LT.	LEFT
NO.	NUMBER
O.C.	ON CENTER
REQ'D	REQUIRED
RT.	RIGHT
SECT.	SECTION
SIM	SIMILAR
STA.	STATION
T.O.W.	TOP OF WALL
T.P.	TURNING POINT
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W/	WITH

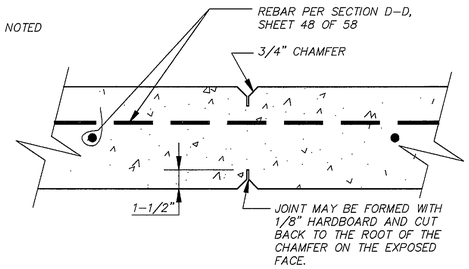


1 EARTH-REINFORCED WALL-PLAN VIEW
N.T.S.

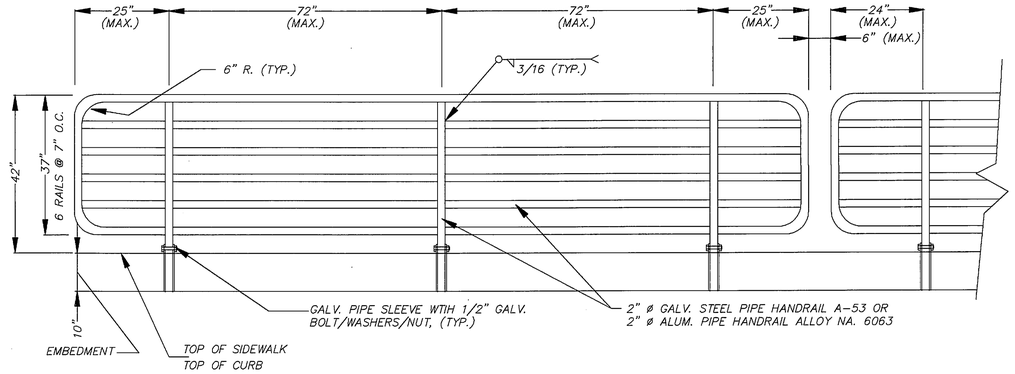


2 VERTICAL WALL JOINT DETAIL
N.T.S.

NOTE: THE CONTRACTOR MAY PROPOSE AN ALTERNATE REINFORCED EARTH WALL. ALTERNATE WALLS MUST BE ABLE TO SUPPORT THE SAME DESIGN LOADS AS THE WALL SHOWN ON THE PLANS. SUBSTITUTION OF ALTERNATE WALLS WILL INCLUDE ALL CALCULATIONS SHOWING THE LOADS THAT WILL BE SUPPORTED, ALL CONSTRUCTION DETAILS, INCLUDING FOOTING SIZE, REINFORCING, ETC.



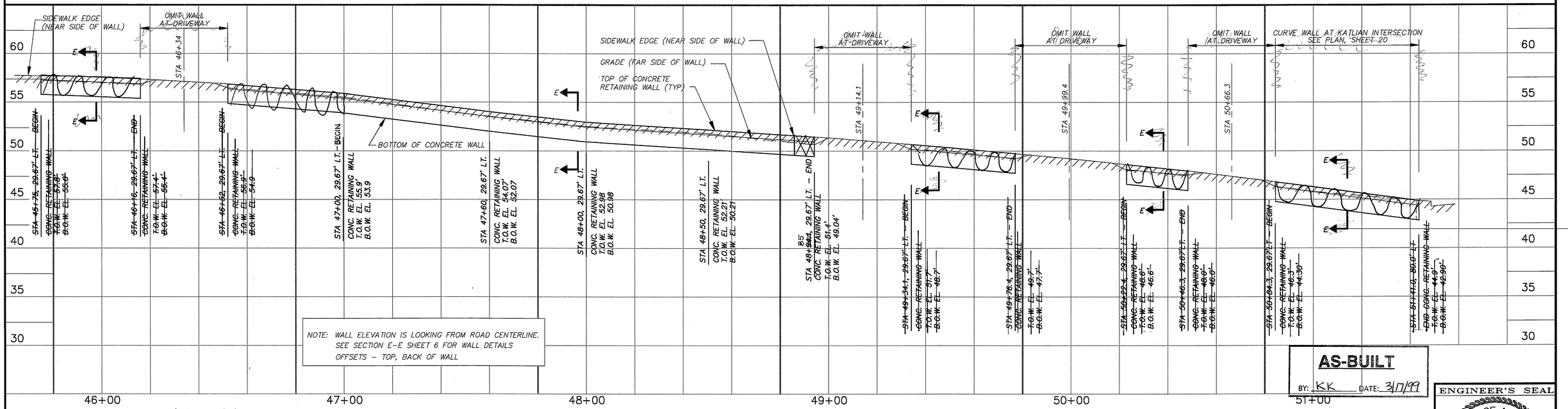
5 CONCRETE WALL-WEAKENED PLANES



HANDRAIL DETAIL
N.T.S.

NOTE: 1. SEE DETAIL "B-B" SHEET 7 AND SECTION "I-I" & "J-J" SHEET 6 FOR ADDITIONAL DETAILS. SEE SHEET 4, 28, & 30 FOR LOCATIONS.
2. END PANEL OF RAILING SHOWN. INTERIOR PANELS SAME SIZE AND SAME DETAILS.
3. ONLY END PANEL POST SPACING & NUMBER OF POSTS AND PANEL LENGTH DIMENSIONS MAY BE ADUSTED TO MEET ACTUAL LENGTHS OF PIPE RAIL REQUIRED. MINIMUM OF TWO POSTS OR MAXIMUM OF FOUR POSTS REQUIRED IN END PANELS. MAXIMUM POST SPACING IN END PANEL 7 FEET, MINIMUM SPACING 2 FEET. MAXIMUM RAIL OVERHANG 24", MINIMUM OVERHANG OF RAIL 6".

HORIZONTAL SCALE
0' 15' 25' 50' 100'



NOTE: WALL ELEVATION IS LOOKING FROM ROAD CENTERLINE. SEE SECTION E-E SHEET 6 FOR WALL DETAILS OFFSETS - TOP, BACK OF WALL

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606#94\PLANSET\$STWALIA
R&M #921374/SITWAL1A.DWG 1:20

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW COMMENTS
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
WALL ELEVATIONS
WALL AT STA "0"45+75 TO STA "0"51+43.5, 29.0' LT.

DESIGNED BY: K.J.W./I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/K.J.W.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 29 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm Al Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-29

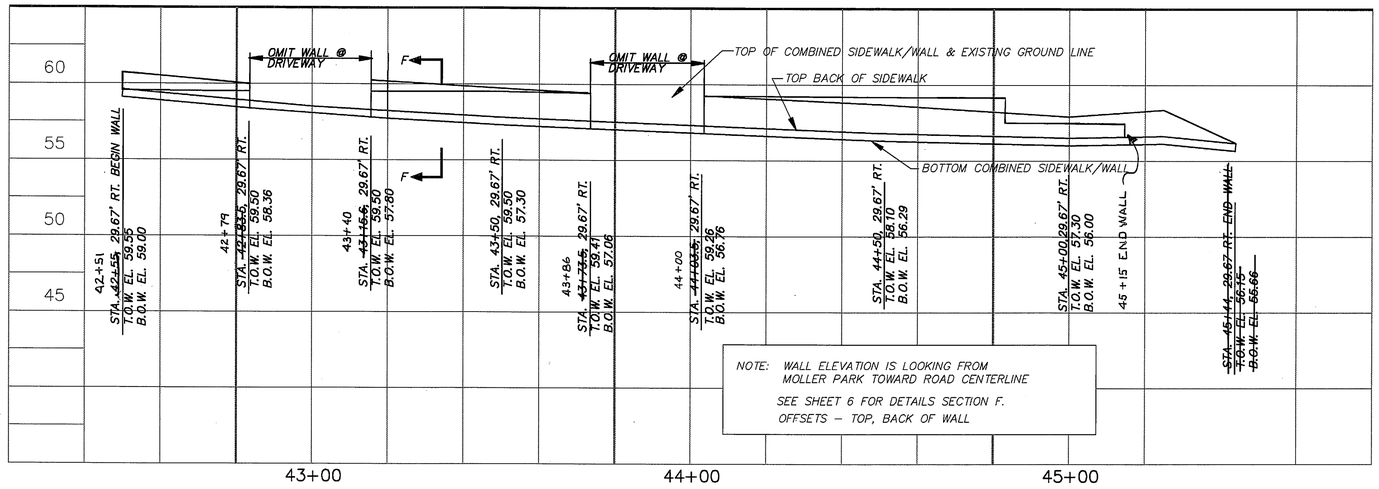
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

PRECAST PANEL SUMMARY – THIS SHEET

PANEL NO.	TOP OF LEVELING PAD (FT)	PANEL WIDTH (FT)	GEO-GRID LENGTH (FT)	NO. OF LAYERS	SR GRID TYPE	GEO-GRID DISTANCES ABOVE BOTTOM OF WALL (FT)	TOP OF WALL FACING FRONT OF WALL	
							LEFT	RIGHT
53	50.0	17.0	4.5	2	SR2	0.2, 2.0	54.0	53.7
54	47.0	16.0	4.5	4	SR2	0.2, 2.0, 4.0, 5.0	53.7	53.4
55	44.3	16.0	7.0	5	SR2	0.2, 2.0, 4.0, 6.0, 7.0	53.4	53.1
56	42.3	20.0	7.0	5	SR2	0.2, 2.0, 4.0, 6.0, 8.0	53.1	52.8
57	42.3	15.5 *	7.0	5	SR2	0.2, 2.0, 4.0, 6.0, 8.0	52.8	52.5
58	42.3	15.5 *	7.0	5	SR2	0.2, 2.0, 4.0, 6.0, 8.0	52.5	52.2
59	43.3	20.0	7.0	5	SR2	0.2, 2.0, 4.0, 6.0, 7.0	52.2	51.9
60	44.3	20.0	7.0	4	SR2	0.2, 2.0, 4.0, 6.0	51.9	51.6
61	45.7	20.0	4.5	3	SR2	0.2, 2.0, 4.0	51.6	51.3
62	45.7	16.0	4.5	3	SR2	0.2, 2.0, 4.0	51.3	51.0
63	45.7	15.5	4.5	3	SR2	0.2, 2.0, 4.0	51.0	50.7

* PANEL WIDTH AT WIDEST POINT.
SEE ELEVATION FOR HEADWALL BLOCKOUTS.

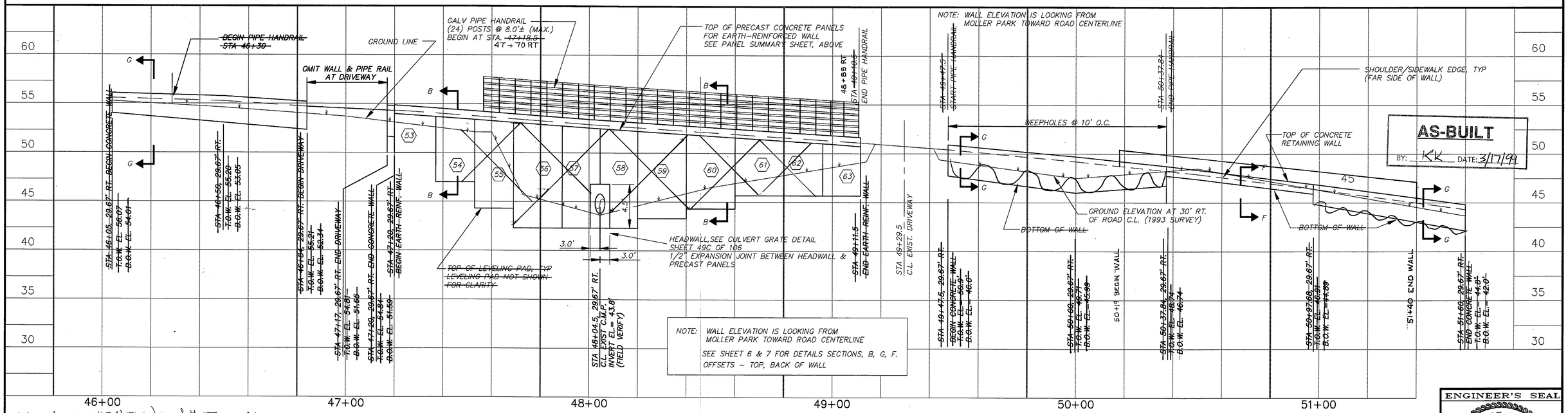


NOTE: WALL ELEVATION IS LOOKING FROM MOLLER PARK TOWARD ROAD CENTERLINE
SEE SHEET 6 FOR DETAILS SECTION F.
OFFSETS – TOP, BACK OF WALL

HORIZONTAL SCALE:

0' 15' 25' 50' 100'

NOTE: SEE SHEET 29 FOR ADDITIONAL WALL DETAILS FOR JOINTS AND TYPICAL GEO-GRID LAYOUT.



NOTE: WALL ELEVATION IS LOOKING FROM MOLLER PARK TOWARD ROAD CENTERLINE
SEE SHEET 6 & 7 FOR DETAILS SECTIONS, B, G, F.
OFFSETS – TOP, BACK OF WALL

P:\SIT\70606#94\PLANSET\$STWAL4A
R&M #921374/SITWAL4A.DWG 1:20

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: O.S. 206-30

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

WALL ELEVATIONS
STA. 42+50 TO 51+60

DESIGNED BY: K.J.W./I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/K.J.W.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 30 OF 106

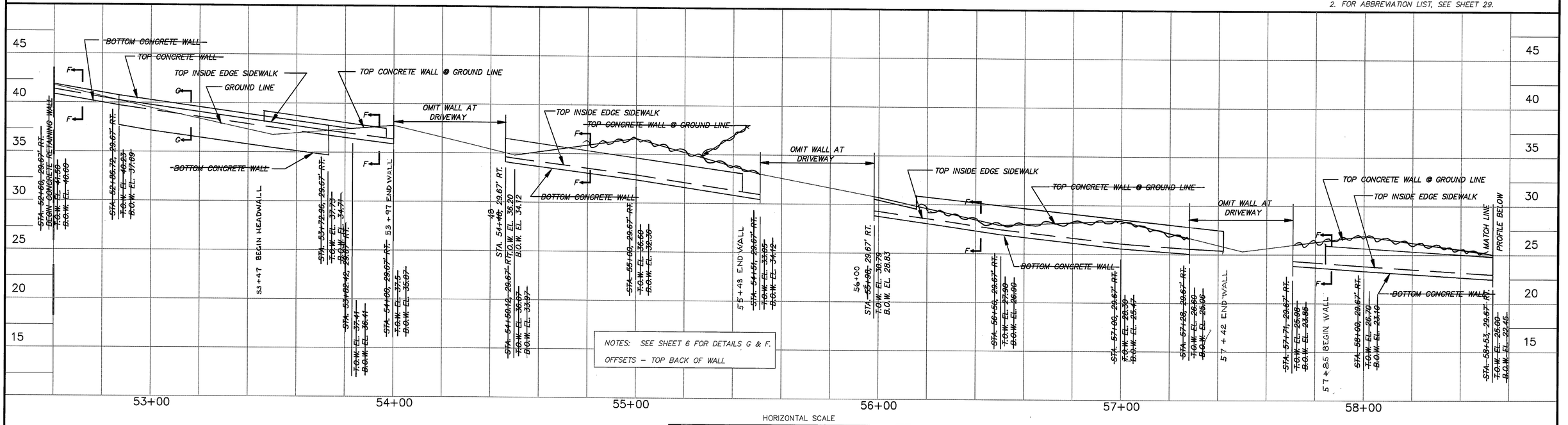
ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

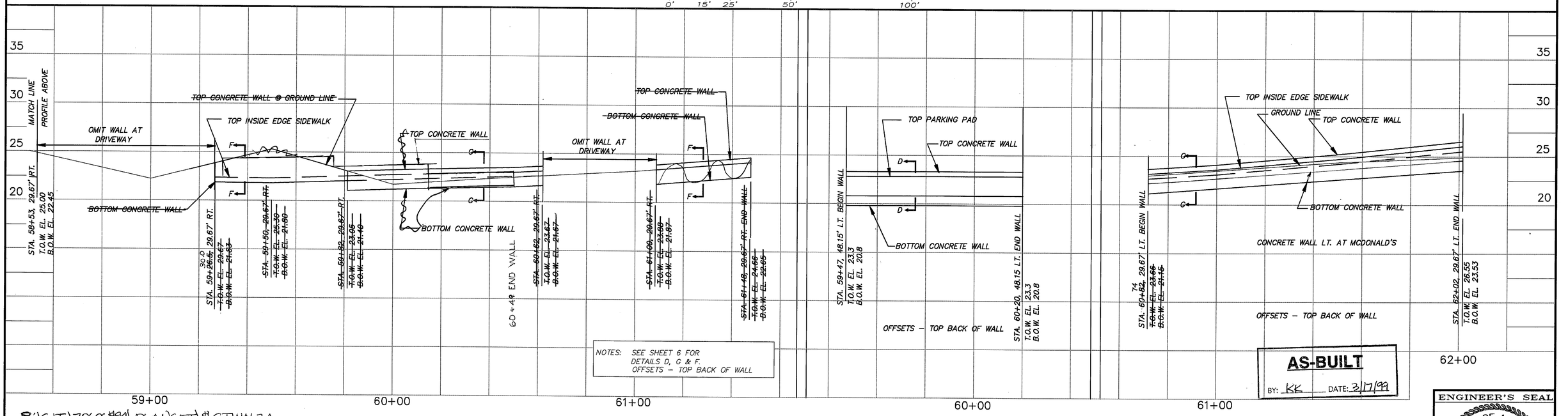
PROJECT DESIGNATION	YEAR
70606	1994

NOTES:

1. FOR SECTIONS B–B AND C–C, SEE SHEET 7.
2. FOR ABBREVIATION LIST, SEE SHEET 29.



HORIZONTAL SCALE
0' 15' 25' 50' 100'



AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#99\PLANSET\$STWAL3A
R&M #921374/SITWAL3A.DWG 1:20

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606

WALL ELEVATIONS

CONCRETE WALL LT. AT MCDONALD'S STA. 60+50 TO 62+50
CONCRETE WALL RT. STA. 52+60 TO 60+00

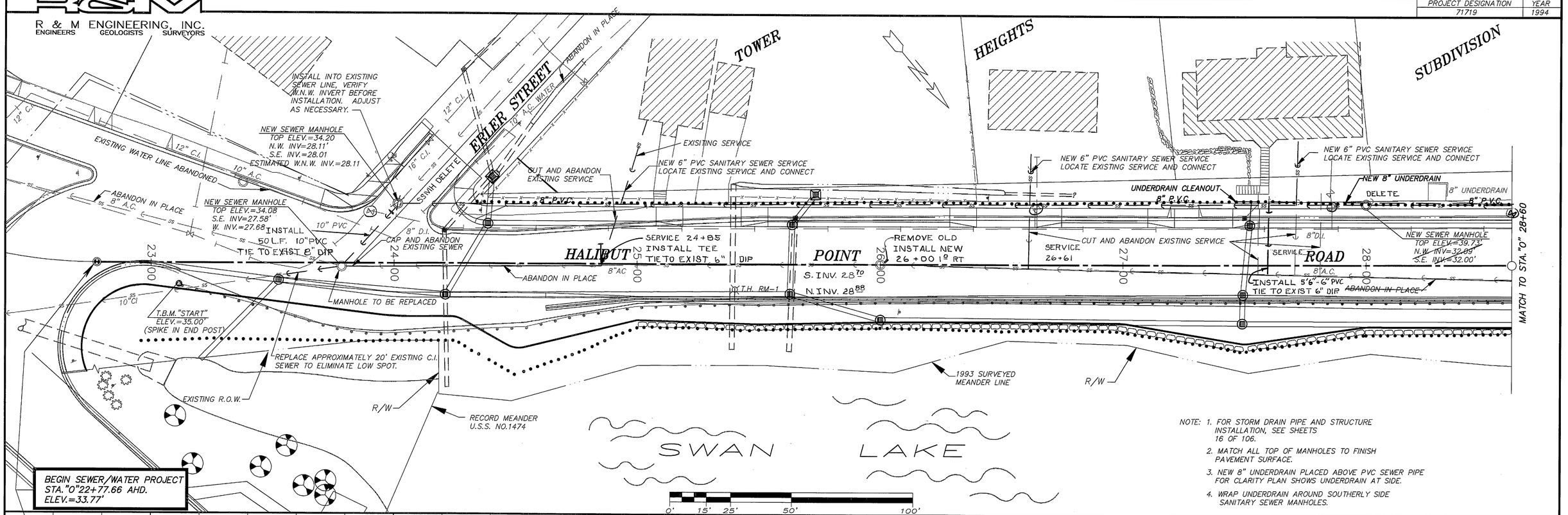
DESIGNED BY: K.J.W./I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ K.J.W.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 31 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855–CE
REGISTERED PROFESSIONAL ENGINEER

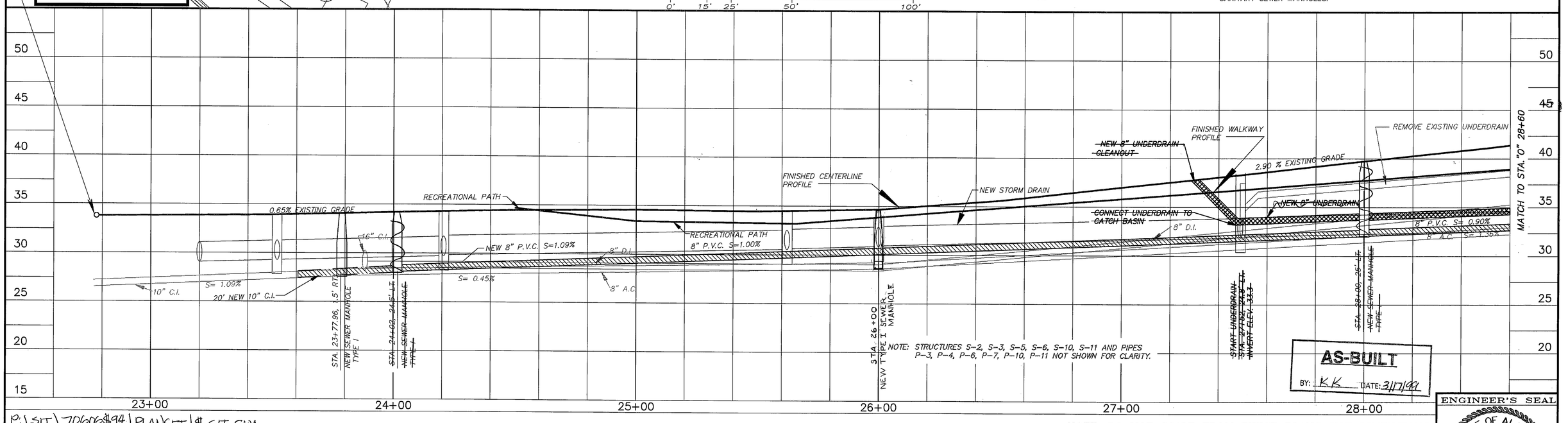
FILE: O.S. 206–31

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994



NOTE: 1. FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION, SEE SHEETS 16 OF 106.
2. MATCH ALL TOP OF MANHOLES TO FINISH PAVEMENT SURFACE.
3. NEW 8" UNDERDRAIN PLACED ABOVE PVC SEWER PIPE FOR CLARITY PLAN SHOWS UNDERDRAIN AT SIDE.
4. WRAP UNDERDRAIN AROUND SOUTHERLY SIDE SANITARY SEWER MANHOLES.



AS-BUILT
BY: K.K DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\94\PLANSET\$ SIT-SW1
R&M #941304/SIT-SW1.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719
SANITARY SEWER AND WATER DISTRIBUTION
STA. 22+77.66 TO STA. 28+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 32 OF 106

FILE: O.S. 206-32

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994

SPRUCE STREET

6" D.I. S.S.

NEW 6" PVC SANITARY SEWER SERVICE LOCATE EXISITING SERVICE AND CONNECT

DELETED

STA. 29+50, 23.5' LT. NEW FIRE HYDRANT CONCRETE HYDRANT PAD

8" P.V.C.

NEW S.S. ALIGNMENT

MATCH TO STA. "0" 28+60

10' OFF PROPERTY LINE

BASIS OF STATIONING PC STA "0" 30+33.98

T.B.M. "ROB" ELEV.=46.49' (SPIKE IN POWER POLE)

NEW 6" PVC SANITARY SEWER SERVICE LOCATE EXISITING SERVICE AND CONNECT 10' OFF PROPERTY LINE

TIE IN NEW 8" UNDERDRAIN

DELETE

~~NEW SEWER MANHOLE TOP ELEV.=15.00' N.W. INV.=35.52' S.E. INV.=35.42'~~

~~NEW SEWER MANHOLE TOP ELEV.=46.11' N.W. INV.=34.43' S.E. INV.=34.33'~~

DELETE

CONNECT EXISTING DRAIN OUTFALL TO NEW 8" UNDERDRAIN, INCIDENTAL TO UNDERDRAIN INSTALLATION.

PT STA "0" 32+66.33 Ahd.

PT STA "0" 32+66.31 Bk.

CONNECT EXISTING DRAIN OUTFALL TO DRAINAGE STRUCTURE INCIDENTAL TO UNDERDRAIN INSTALLATION.

INSTALL CLEANOUTS

8" P.V.C.

MATCH TO STA "0" 34+60

HALIBUT

ABANDON IN PLACE

SER. 27+81

29+00

30+00

CAP & ABANDON EXISTING SERVICES

T.H. RM-3

CLEANOUT

REMOVE EXISTING 8" UNDERDRAIN

26'

10'

6'

NEW CAPTIVE AIR RELEASE VALVE

POINT

SERVICE 31+94

NEW ALIGNMENT

31+00

32+00

ABANDON IN PLACE

T.H. RM-11

33+00

34+00

ROAD

T.H. RM-12

SWAN

4" THICK CONCRETE PAD

3.5' 3.5'

3.5' 3.5'

FIRE HYDRANT

CONCRETE SIDEWALK

NOTE: CONCRETE PAD INCIDENTAL TO FIRE FIRE HYDRANT INSTALLATION.

REMOVE EXISTING SEWER MANHOLE

REMOVE OLD REPLACE NEW S'LY INV. 35.12 N'LY INV. 35.10

0' 15' 25' 50' 100'

R/W

EXISTING GALVANIZED WATER SERVICE TO BE ABANDONED. REMOVE EXISTING CORPORATION STOP AT WATER MAIN & INSTALL REPAIR BAND. WORK INCIDENTAL TO SEWER INSTALLATION.

PC STA "0" 34+05.74 Ahd.

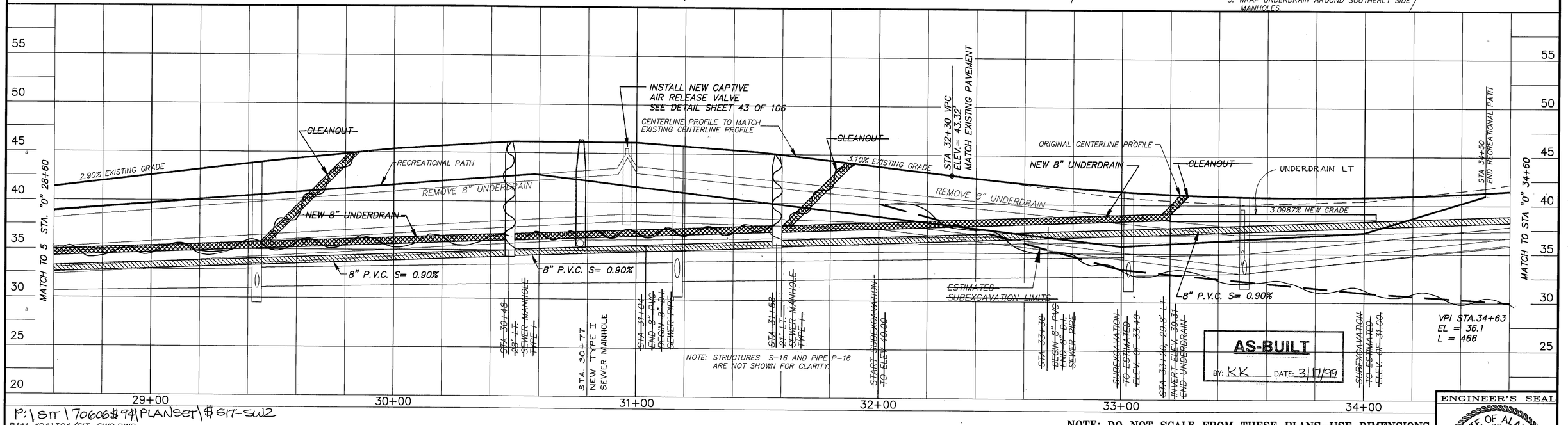
PC STA "0" 34+05.29 Bk.

LAKE

NOTE: 1. FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION, SEE SHEETS 17 OF 106.

2. MATCH ALL TOP OF MANHOLES TO FINISH PAVEMENT SURFACE.

3. WRAP UNDERDRAIN AROUND SOUTHERLY SIDE MANHOLES.



AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SIT-SW2
R&M #941304/SIT-SW2.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

SANITARY SEWER AND WATER DISTRIBUTION
STA."0"28+60 TO STA."0"34+60

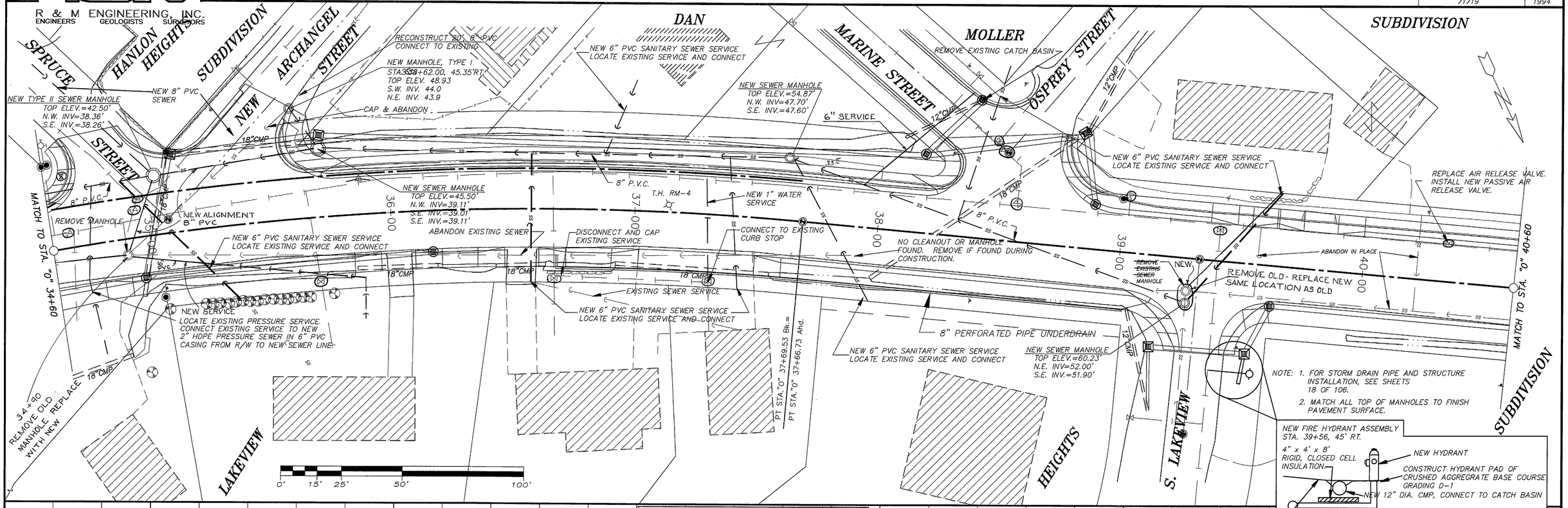
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 33 OF 106

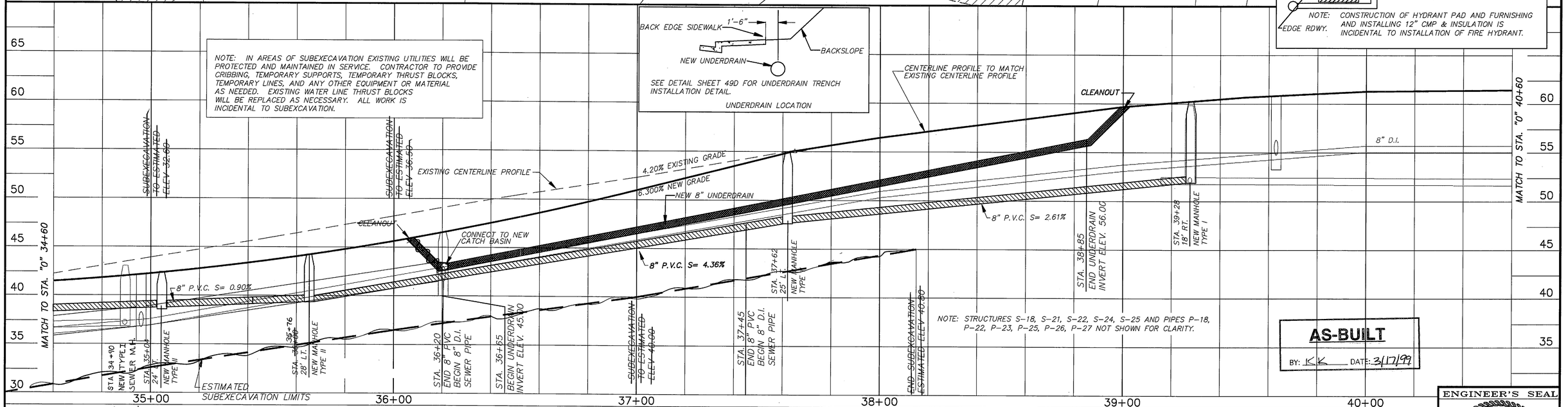
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-33

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994





AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606$94\PLANSET\$SIT-SW3
R&M #941304/SIT-SW3.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/30	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: O.S. 206-43

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

SANITARY SEWER AND WATER DISTRIBUTION
STA. "0" 34+60 TO STA. "0" 40+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 34 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994

CURVE DATA
PI STA=44+26.65
Δ =26°35'00"
D=4°59'06"
R=1149.35'
L=533.26'
T=271.52'
C=N45°20'35"W-528.49'
S=.04
ST=120'
BST=STA 40+80.03
EST=STA 42+03.13
BST=STA 46+40.39
EST=STA 47+57.21

BLATCHLEY JUNIOR HIGH SCHOOL
HALIBUT POINT ROAD
LAKEVIEW HEIGHTS SUBDIVISION
CRABAPPLE DRIVE
N. LAKEVIEW DRIVE

NEW 6" PVC WITH 2" H.D.P.E. WELDED PRESSURE SEWER PIPE. LOCATE EXISTING FORCE MAIN AND CONNECT. SEAL BOTH ENDS PVC CASING TO PROVIDE WATER-TIGHT SEAL.

MATCH TO STA. "0" 40+60
ABANDON EXISTING SEWER IN PLACE
MANHOLE TO BE REMOVED
NEW SSMH 41+77
NEW ALIGNMENT
NEW SEWER MANHOLE
TOP ELEV.=60.21'
N.W. INV=54.92'
N.E. INV=55.02'
PC STA "0" 41+55.13 Ahd = PC STA "0" 41+52.03 Bk.
NEW 6" PVC SANITARY SEWER SERVICE LOCATE EXISTING SERVICE AND CONNECT
NEW SEWER MANHOLE
TOP ELEV.=58.14'
S.E. INV.=53.14'
N.W. INV=53.04'
EXISTING SEWER SERVICE
43+34
NEW 6" PVC SANITARY SEWER SERVICE LOCATE EXISTING SERVICE AND CONNECT
MANHOLE TO BE REMOVED
DELETE
~~NEW SEWER MANHOLE~~
~~TOP ELEV.=56.54'~~
~~S.E. INV.=51.29'~~
~~N.W. INV=51.10'~~
NEW SEWER MANHOLE
TOP ELEV.=55.42'*
S.E. INV.=48.91'
N.W. INV=48.81'
*ESTIMATED ELEV. MATCH EXISTING
SSMH 45+78
INV. 50
ABANDON OLD FORCED MAIN
NEW ALIGNMENT
TIE-IN
CONNECT TO EXISTING SANITARY SEWER
NEW 6" PVC SANITARY SEWER SERVICE. LOCATE EXISTING SERVICE AND CONNECT.
EXISTING SEWER SERVICE
MANHOLE TO BE REMOVED
MATCH TO STA. "0" 46+60

NOTE: 1. FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION, SEE SHEET 19.
2. MATCH ALL TOP OF MANHOLES TO FINISH PAVEMENT SURFACE.

0' 15' 25' 50' 100'

CENTERLINE PROFILE TO MATCH EXISTING CENTERLINE PROFILE
MATCH TO STA. "0" 40+60
2% GRADE
8" P.V.C. S= 1.00%
STA. 41+75, 24' RT. NEW TYPE I MANHOLE
START SUBEXCAVATION ESTIMATED ELEV. 51.20
STA. 43+37, 26' RT. NEW TYPE I MANHOLE
SUBEXCAVATION TO ESTIMATED ELEV 46.00
ESTIMATED SUBEXCAVATION LIMITS
NOTE: STRUCTURES S-33, S-34 AND PIPE P-33, P-34 NOT SHOWN FOR CLARITY.
0.34% GRADE
EXISTING CENTERLINE PROFILE
8" P.V.C. S= 1.00%
STA. 45+37, 26' RT. NEW TYPE I MANHOLE
SUBEXCAVATION TO ESTIMATED ELEV 47.00
STA. 45+76, 24' RT. NEW TYPE I MANHOLE
SUBEXCAVATION TO ESTIMATED ELEV 45.00
8" P.V.C. S= 1.00%
MATCH TO STA. "0" 46+60
70 65 60 55 50 45 40 35
41+00 42+00 43+00 44+00 45+00 46+00

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\941\PLANSET\#SIT-SW4
R&M #941304/SIT-SW4.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719
SANITARY SEWER AND WATER DISTRIBUTION
STA. "0"40+60 TO STA. "0"46+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 35 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-35

PROJECT DESIGNATION	YEAR
71719	1994

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

DAN MOLLER SUBDIVISION

REPLACE EXISITING FORCE MAIN WITH NEW 6" PVC CASING WITH 2" HDPE PRESSURE MAIN. SEAL BOTH ENDS CASING TO BE WATER TIGHT. LOCATE EXISTING FORCE MAIN AT EDGE R/W AND CONNECT TO NEW FORCED MAIN.

EXISTING 6" D.I. WATER SERVICE

NEW 6" PVC SANITARY SEWER SERVICE FUTURE SERVICE. CAP PER DETAIL SHEET 49.

6' BELOW GRADE

51+41.00
84.00' LT

KATLIAN AVE.

8" D.I.P. 8" GATE VALVE 12" D.I.P. 12" GATE VALVE 14"x8" REDUCER 14"X12" REDUCER 8" GATE VALVE 14" GATE VALVE 14" D.I.P. 14"x14"x14" WYE 2" GALVANIZED WATER LINE 8" PLUG TAPPED FOR 2" GALVANIZED

EXISTING WATER VALVE CONFIGURATION

MATCH TO STA. "0" 46+60

6" DIP

HALIBUT POINT ROAD

MANHOLE TO BE REMOVED

48+94.10 29.67' LT | 49+34.10 29.67' LT | 49+76.40 29.67' LT | 50+22.40 29.67' LT | 5046.30 29.67' LT | 50+84.30 29.67' LT

47+96 11" RT
INV 47 08

~~NEW SEWER MANHOLE TOP ELEV.=51.90' S.E. INV.=45.94' N.W. INV.=45.84'~~

SERVICE 49+76 CAP@℄ 2x4

SERVICE 49+20 CAP @ ℄ 2X4

SERVICE 50+86 CAP @ ℄

8" P.V.C.

8" P.V.C.

PI STA=52+01.50
Δ=0°00'20" R

NEW SEWER MANHOLE TOP ELEV.=42.90' S.E. INV.=33.83' N.E. INV.=33.83' N.W. INV.=33.73'

8'-6" D.I. DROP INLET

MANHOLE TO BE REMOVED CONNECT EXISTING SEWER TO NEW MANHOLE

49+66 INV 42 ±

46+84.0
29.67' RT

~~47+20.00 29.67' RT BEGIN EARTH REINFORCED WALL~~

BEGIN PIPE HANDRAIL
NEW 6" PVC SANITARY SEWER SERVICE
LOCATE EXISTING SERVICE AND CONNECT

END PIPE HANDRAIL

~~49+11.50 29.67' RT END EARTH REINFORCED WALL~~

~~49+47.50 29.67' RT BGN CONC WALL~~

REMOVE EXISTING 8" PLUG INSTALL NEW 8" PLUG.

REMOVE EXISTING 2" GALVANIZED WATER PIPE

8" D.I. DROP INLET

MATCH TO STA. "0" 52+60

MOLLER ST

NEW 8" PVC SEWER

INSTALL CLEANOUT STA 52+23.7 74.71' RT.

LAKEVIEW HEIGHTS SUBDIVISION

PI STA "0" 46+83.39 BK.
PT STA=46+85.21 Ahd.

MOLLER

PARK

NOTE: 1. FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION, SEE SHEET 20.
2. MATCH ALL TOP OF MANHOLES TO FINISH PAVEMENT SURFACE.

LOCATE EXISTING SEWER AND CONNECT TO NEW 8" SEWER.

0' 15' 25' 50' 100'

60 55 50 45 40 35 30 25

MATCH TO STA. "0" 46+60

8" P.V.C. S= 1.00%

8" A.C. S= 4.23%

~~ESTIMATED SUBEXCAVATION LIMITS~~

~~END SUBEXCAVATION ESTIMATED ELEV 43.00~~

STA. 47+96 RT NEW TYPE I SEWER MANHOLE

~~STA. 48+67.24 RT NEW TYPE I MANHOLE~~

8" C.I.

S= 1.04% 8" A.C.

STA. 49+66 NEW TYPE I SEWER MANHOLE

8" P.V.C. S= 3.44%

8" A.C. S= 1.04%

8" PVC S= 2.61%

8" A.C. S= 3.03%

14" C.I.

STA. 52+17.36 17.5' RT NEW TYPE III MANHOLE

MATCH TO STA. "0" 52+60

NOTE: STRUCTURES S-36, S-37, S-39, S-40 AND PIPES P-36, P-37, P-39, P-40 NOT SHOWN FOR CLARITY.

AS-BUILT
BY: K.K. DATE: 3/17/99

47+00 48+00 49+00 50+00 51+00 52+00

P:\SIT\70606#94\PLANSET\#SIT-SW5
R&M #941304/SIT-SW5.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

SANITARY SEWER AND WATER DISTRUBITION
STA."0"46+60 TO STA."0"52+60

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 36 OF 106

FILE: O.S. 206-36

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994

OUTFALL FOR UNDERDRAIN

LOCATE EXISITNG 1" AND 8" WATER SERVICES. VERIFY IF SERVICES CONNECTED AND NOT LEAKING. IF 8" SERVICE IS ACCEPTABLE DISCONNECT AND PLUG 1" SERVICE. INSTALL NEW 1" SERVICE TAP AND CURB BOX AT PROPERTY LINE AT END OF 8" SERVICE.

WHITCOMB SUBDIVISION

U.S. SURVEY NO. 6 1/2

U.S. SURVEY NO. 225

EXISTING EASEMENT PER A.D.O.T. PROJ.# 67525

STA. 55+20 & STA. 56+84 NEW 6" PVC PIPE CASING WITH 2" HDPE PRESSURE SEWER SERVICE. CAP PER DETAIL SHEET 44. SEAL ENDS OF PVC CASING TO OBTAIN WATER TIGHT SEAL.

POST OFFICE BOXES

NEW 6" SANITARY SERVICE. REMOVE OLD SERVICE WITHING R/W. CONNECT NEW SERVICE TO EXISTING AT R/W.

LOCATE EXISTING 6" WATER SERVICE AND VALVE AT DUCTILE IRON TRANSITION. CAP 6" D.I. DOWNSTREAM OF VALVE.

STA. 56+96 NEW 6" D.I. WATER SERVICE. CAP AT PROPERTY LINE PER DETAIL SHEET 44.

EXISTING 6" "BLUE BRUTE" WATER LINE (CONTRACTOR VERIFY LOCATION & RELOCATE AS NECESSARY TO AVOID CONFLICT WITH UNDERGROUND POWER/TELE/CATC

FOR WATER SERVICE BRADY STREET HOT STA. LOCATE EXISTING 1-1/4" SERVICE. REMOVE CONNECTION TO EXISTING WATER SERVICE STA. 57+70. CONNECT TO NEW 1" SERVICE.

LOCATE, CUT AND CAP EXISTING 6" SERVICE AT BLDG. CONNECTION. CONNECT NEW 6" WATER SERVICE.

10' SEWER UTILITY EASEMENT

20' ACCESS & UTILITY EASEMENT

POST OFFICE BOXES

NEW CURB BOX ON 1" SERVICE

NEW SEWER MANHOLE TOP ELEV.=56.14' S.E. INV.=29.37' N.W. INV=29.27'

HALIBUT POINT ROAD

MANHOLE TO BE REMOVED

MATCH TO STA. "0" 52+60

MATCH TO STA. "0" 58+60

53+00 54+00 55+00 56+00 57+00 58+00

8" P.V.C.

REMOVE EXISTING MANHOLES

ABANDON EXISTING WATER SERVICE. REMOVE CURB STOP. ATTACH REPAIR SADDLE.

EXIST. SEWER MANHOLE N.E. INV=15.18' S.W. INV=9.8'

NEW 6" D.I.

18"OF 16" D.I.P. @ 1%

16" D.I.P.

NEW 1" COPPER

NEW SEWER MANHOLE N.W. INV=15.45' S.E. INV=15.45' S.E. INV=15.35'

8" PERFORATED PIPE

STA. 54+03 NEW 6" D.I. WATER SERVICE. CAP AT PROPERTY LINE PER DETAIL SHEET 44.

STA. 55+09 NEW 6" D.I. WATER SERVICE. CAP AT PROPERTY LINE PER DETAIL SHEET 44.

NEW SEWER MANHOLE S.E. INV.=23.80 N.W. INV=23.70'

55+98 29.67 RT

57+28 29.67 RT

CAP & ABANDON

EXISTING EASEMENT PER A.D.O.T. PROJ.# 67525

NEW 6" PVC SANITARY SEWER SERVICE LOCATE EXISTING SERVICE AND CONNECT

NEW 6" PVC SANITARY SEWER SERVICE CAP AT PROPERTY LINE PER DETAIL SHEET 44.

STA. 56+45 NEW 6" D.I. WATER SERVICE. CAP AT PROPERTY LINE PER DETAIL SHEET 44.

NEW 6" PVC SANITARY SEWER SERVICE CAP AT PROPERTY LINE PER DETAIL SHETT 44.

NEW 6" PVC SANITARY SEWER SERVICE. LOCATE EXISTING SERVICE AND CONNECT.

12' SEWER & TELEPHONE UTILITY EASEMENT

MOORE MEMORIAL

ABANDON WATER SERVICE, REMOVE CORP STOP, APPLY REPAIR BAND.

UNDERDRAIN CLEANOUT

NEW 1" COPPER SERVICE WITH CURB STOP & VALVE BOX IN SIDEWALK. EXTEND SERVICE TO R/W LINE.

NEW 6" PVC SANITARY SEWER CAP AT PROPERTY LINE PER DETAIL SHEET 44. REMOVE EXISTING SERVICE.

0' 15' 25' 50' 100'

CLEANOUT FOR 8" HDPE UNDERDRAIN

START UNDERDRAIN STA. 52+65, 28' RT. INVERT ELEV. 37.26

END & CONNECT UNDERDRAIN TO CATCH BASIN STA. 53+98, 28' RT. INVERT ELEV. 32.29

NEW 8" UNDERDRAIN

8" PVC S= 2.61%

R/W LINE

WALL/SIDEWALK/CURB

NEW 8" UNDERDRAIN SEE DETAIL SHEET 47

1.5'

LOCATION UNDERDRAIN

NEW SEWER MANHOLE STA. 53+75, 1.5' RT. TYPE I MANHOLE

NEW SEWER MANHOLE STA. 55+88.89, 1.5' RT. TYPE I MANHOLE

LOWER MANHOLE LID SO LID FLUSH WITH NEW DRIVEWAY APPROACH

ESIXTING 6' SQUARE CAST IN PLACE MANHOLE STA. 58+29, 23' LT.

NEW SEWER MANHOLE STA. 58+28.35, 1.5' RT. TYPE III START 10" PVC SEWER START 16" D.I.P. SEWER END 8" PVC SEWER

10" P.V.C. S= 1.41%

8" P.V.C. S=3.51%

NOTE: 1. FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION, SEE SHEETS 21 OF 106.

2. MATCH ALL TOP OF MANHOLES TO FINISH PAVEMENT SURFACE.

NOTE: STRUCTURES S-42, S-44, S-45 AND PIPES P-42, P-43, P-45 NOT SHOWN FOR CLARITY.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SIT-SW6
R&M #941304/SIT-SW6.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: O.S. 206-37

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

SANITARY SEWER AND WATER DISTRIBUTION
STA. "0"52+60 TO STA. "0"58+60

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 37 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1655-CE REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994

U.S.S. NO. 225 B — KEITH, INEZ & MICHAEL SNOWDEN — C — KEITH, INEZ & MICHAEL SNOWDEN — WHITCOMB — 20' ACCESS & UTILITY EASEMENT — REMOVE & REBUILD — 45' PARKING AND ACCESS EASEMENT — 1 OWNER: KEITH, INEZ & MICHAEL SNOWDEN LESSEE: McDONALD'S CORPORATION — NEW 6" D.I. WATER SERVICE EXTEND 5' BEYOND R/W LINE AND CAP FOR FUTURE USE. — NEW LOCATION — RELOCATE STAIRS TO NEW POSITION. ENGINEER WILL LOACATE IN FIELD — EXISTING R.O.W. — CONC RETAINING WALL — SUBDIVISION — OWNER: MURRAY LACOUR LESSEE: McDONALD'S CORPORATION — U.S.S.NO.225 — U.S.S.NO.3303 — KEN BROWN — 16 — U.S.S. NO. 3303 — 1 MURRAY LACOUR — SUBDIVISION — EXISTING R/W LIMITS — POL STA "0" 66+15.67 Bk. — POL STA "0" 66+15.59 Ahd.

MATCH TO "0" 58+60 — NEW SEWER MANHOLE TYPE II, STA. 59+00, 1.5' RT. S.E. INV.=16.35' N.W. INV=16.45' N.E. INV=16.45' — REMOVE EXISTING WATER SERVICE BACK TO MAIN. REMOVE CORP STOP APPLY REPAIR BAND. 59+80 TIE-IN — HALIBUT POINT ROAD — REMOVE MANHOLE — 16" D.I. SEWER — SERVICE SUD'S & DUDS — 14" C.I. — 62+02 29.67 LT — REMOVE EXISITING MANHOLE — ABANDON EXISTING SEWER — NEW SEWER MANHOLE TYPE I, STA 62+34.41, 1.5' RT. N.W. INV=21.07' N.E. INV=21.17' — ABANDON EXISTING SEWER — ABANDON IN PLACE — NEW 30.5', 10" PVC SEWER — EXISTING R.O.W. — 59+24.00 29.67' RT — LOCATE AND CONNECT EXISTING TO NEW 6" PVC SANITARY SEWER — SEWER CLEAN OUT — 60+25 — LOCATE AND CONNECT EXISTING TO NEW 6" PVC SANITARY SEWER — POST OFFICE BOXES — INSTALL INTO EXISTING SEWER LINE — LOCATE AND CONNECT EXISTING TO NEW 6" PVC SANITARY SEWER — EXISITING SERVICE — 8" PVC — EXISTING R/W LIMITS — NEW SEWER MANHOLE S.W. INV.=21.68' N.W. INV=21.78' N.E. INV=21.78'

BRADY STREET — MOORE — 11 FRANK A. & GEORGINA L. ROGERS — 10A ET AL SNOWDEN — 8A ET AL SNOWDEN — U.S.S. NO. 225 BLOCK B — 0' 15' 25' 50' 100' — MEMORIAL — 7 KEITH, INEZ & MICHAEL SNOWDEN — PETERSON AVE — 6 GENE L. PREWITT — KIMSHAM — U.S.S. NO. 3303 — SUBDIVISION 2

LOCATE EXISTING SERVICES. CONNECT TO NEW 6" PVC SANITARY SEWER

LOCATE EXISTING SEWER AND INSTALL DOUBLE CLEANOUT APPROX. STA. 59+16, 120' RT.

NEW 175', 8" PVC SEWER

NEW SEWER MANHOLE LOCATE EXISTING SEWER & INSTALL TYPE II, STA. ~~59+05.29, 176.24' RT.~~ S.W. INV.=19.04' 11 16' RT. N.E. INV=19.14' S.E. INV=? VERIFY EXISITING

ABANDON

LOCATE SEWER FROM S.E. AND CONNECT TO MANHOLE. IF NECESSARY ADJUST MANHOLE GRADE.

FUTURE SERVICE TO PROPERTY LINE

8" PVC

NEW 6" PVC CLEANOUTS — GROUND SURFACE — 4' — 45° — EXISTING SEWER PIPE

8" D.I. — 10" TEE — 14"x10" REDUCER — 14" D.I. — 10"x8" REDUCER — 10" GATE VALVE — 10" GATE VALVE — 10" D.I.

EXISTING WATER VALVING CONFIGURATION

MATCH TO STA. "0" 58+60

10" P.V.C. S= 1.41%

8" P.V.C. S= 2.72%

STA. 59+00, 0.5' RT. TYPE II MANHOLE

STA. 61+25 END 10" PVC BEGIN 10" D.I.

STA. 62+34.41, 0.5' RT. TYPE I MANHOLE #6

NOTE: STRUCTURES S-48, S-49A, S-51, S-52, S-54 AND PIPES P-46, P-48A, P-49, P-50, P-52 NOT SHOWN FOR CLARITY.

NOTE: 1. FOR STORM DRAIN PIPE AND STRUCTURE INSTALLATION, SEE SHEET 22.
2. MATCH ALL TOP OF MANHOLES TO FINISH PAVEMENT SURFACE.

AS-BUILT
BY: K.K. DATE: 3/17/99

59+00 60+00 61+00 62+00 63+00 64+00

P:\SIT\70606#94\PLANSET\#SIT-SW7
R&M #941304/SIT-SW7.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719
SANITARY SEWER AND WATER DISTRIBUTION
STA. "0" 58+60 TO E.O.P.

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 38 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-38

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994

OWNER: MURRAY LACOUR
LESSEE:
McDONALD'S CORPORATION

U.S.S. NO. 3303

KEN BROWN SUBDIVISION

16 U.S.S. NO. 3303

1 MURRAY LACOUR

U.S.S. NO. 3303

U.S.S. NO. 225

EXISTING R/W LIMITS

POL STA "0" 66+15.67 Bk.
POL STA "0" 66+15.59 Ahd.

HALIBUT POINT ROAD

63+00 64+00 65+00 66+00

NEW 24" CMP

SS

18" CMP

ABANDON EXISTING SEWER

DISCONNECT AND PLUG SEWER FLOWING EASTERLY. LEAVE MANHOLE FOR SEWER FLOWING WESTERLY.

EXISTING SEWER LINES REMAIN.

REMOVE EXISTING SERVICE WITHIN R/W TO NEW SEWER LOCATION.

EXISTING R/W LIMITS

REMOVE EXISTING SERVICE FROM R/W TO NEW SEWER

PROVIDE 6" NEW SERVICE TO R/W CONNECT EXISTING SERVICE TO NEW SERVICE

PROVIDE 6" NEW SERVICE TO R/W LOCATE AND CONNECT EXISTING SERVICE TO NEW SERVICE

INSTALL NEW MANHOLE
S.E. INV=30.29

PETERSON AVE

6 GENE L. PREWITT

U.S.S. NO. 3303

2 SUBDIVISION KIMSHAM

INSTALL NEW MANHOLE
N.E. INV=21.78
S.E. INV=21.68
N.W. INV=21.78

END SEWER/WATER PROJECT
STA. 65+61.84

EXISTING SEWER
ABANDON IN PLACE

NEW 8" PVC SEWER
S=2.73%

NEW SANITARY SEWER MANHOLE TYPE #1
STA. 62+50, 31.5' RT.

NEW SANITARY SEWER MANHOLE TYPE #1
STA. 65+61.84, 30' RT.

40 35 30 25 20 15 10 5

63+00 64+00 65+00 66+00 63+00 64+00

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606#94\PLANSET\#SIT-END
R&M #921374/SIT-END.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: O.S. 206-39

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

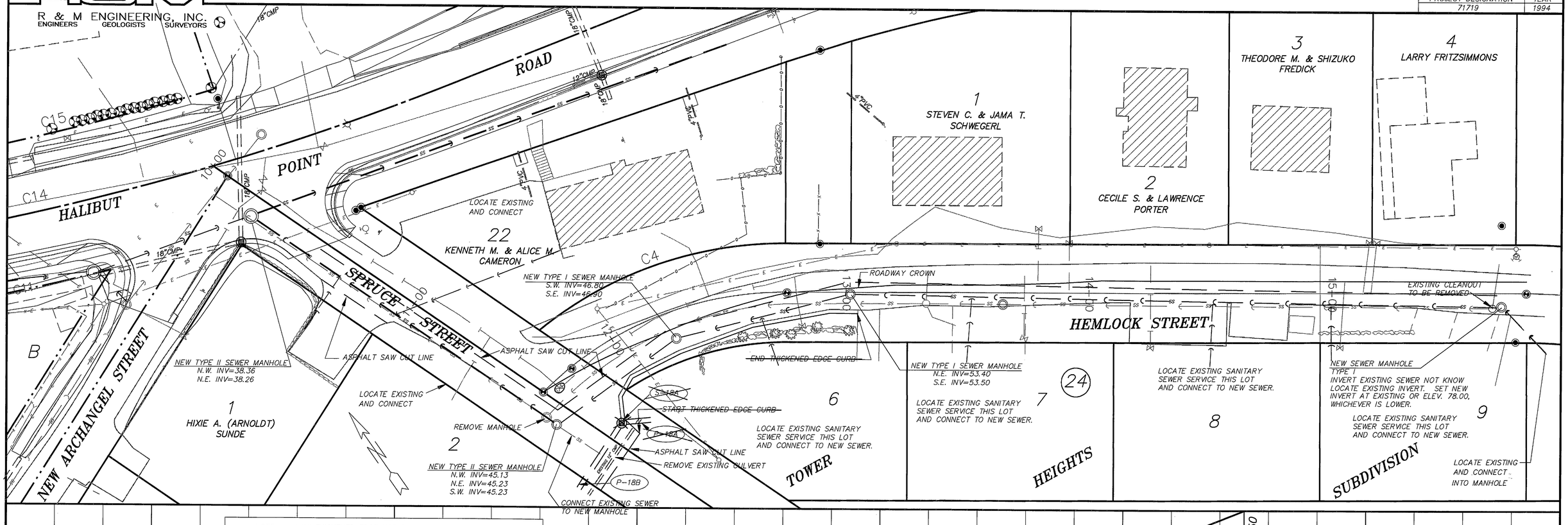
SANITARY SEWER AND WATER DISTRIBUTION
STA. "0" 58+60 TO E.O.P.

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 39 OF 106

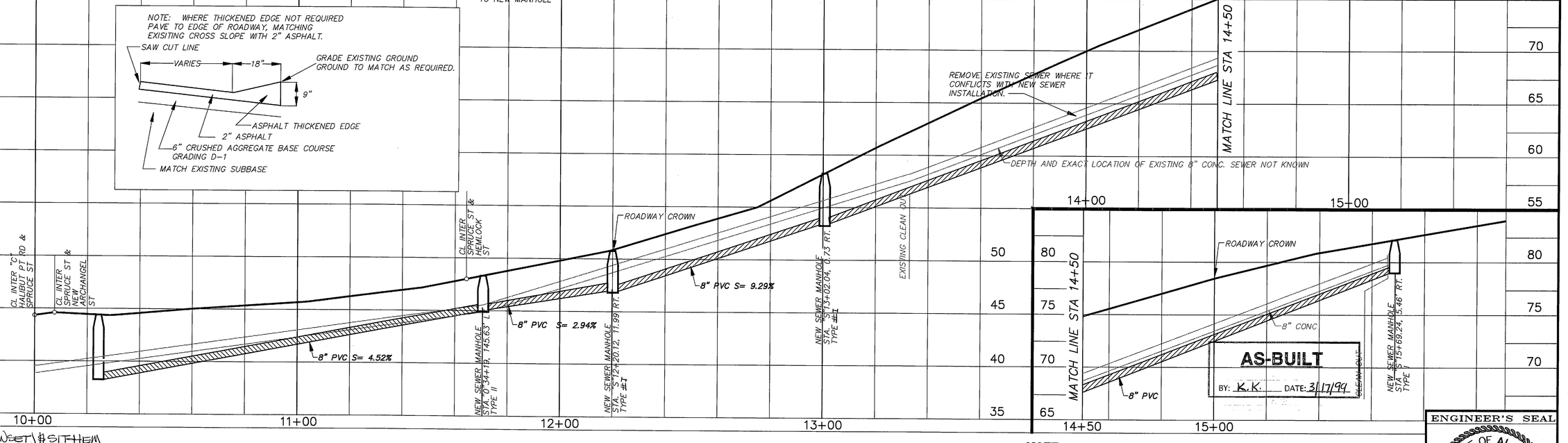
ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994



NOTE: WHERE THICKENED EDGE NOT REQUIRED PAVE TO EDGE OF ROADWAY, MATCHING EXISITING CROSS SLOPE WITH 2" ASPHALT.



P:\SIT\70606\PLANSET\#SITHEM
R&M #941304/SIT-HEM.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

FILE: U.S. 206-40

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719
SANITARY SEWER/SEWER
SPRUCE/HEMLOCK "S" LINE
STA. 10+00 TO STA. 13+65

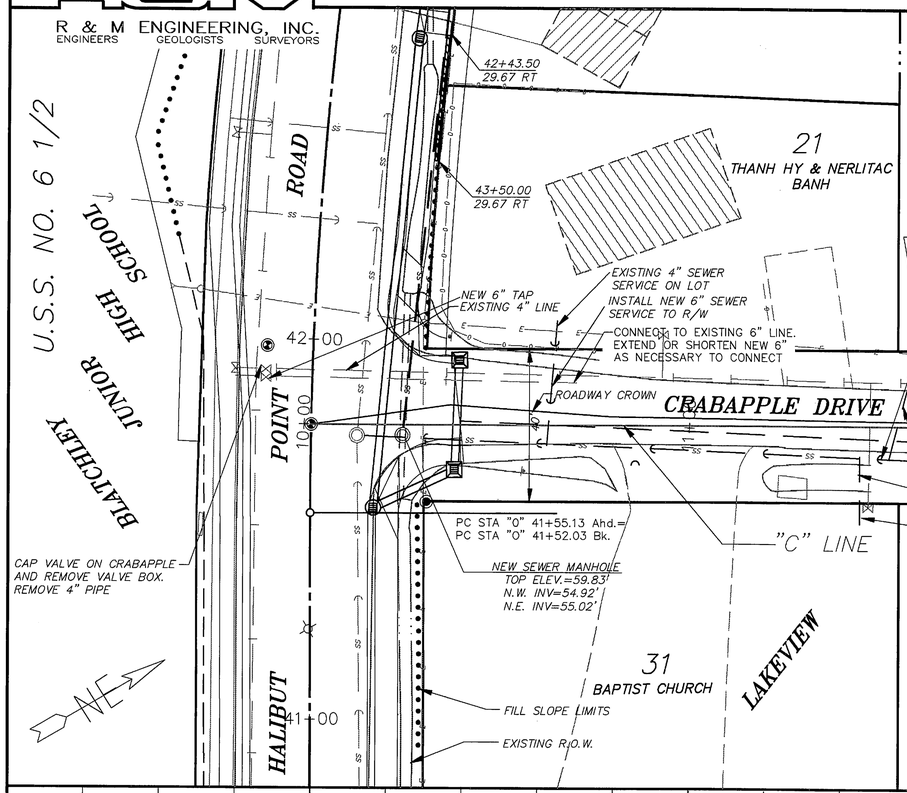
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

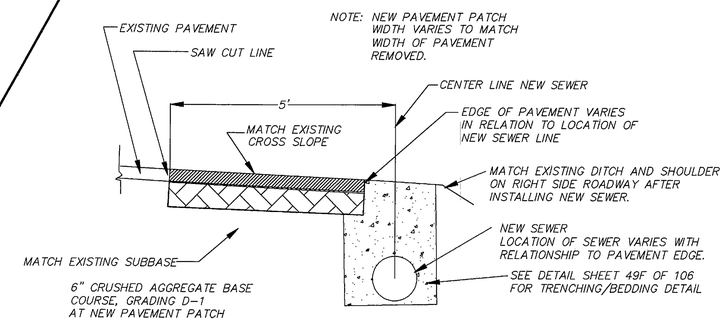
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 40 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

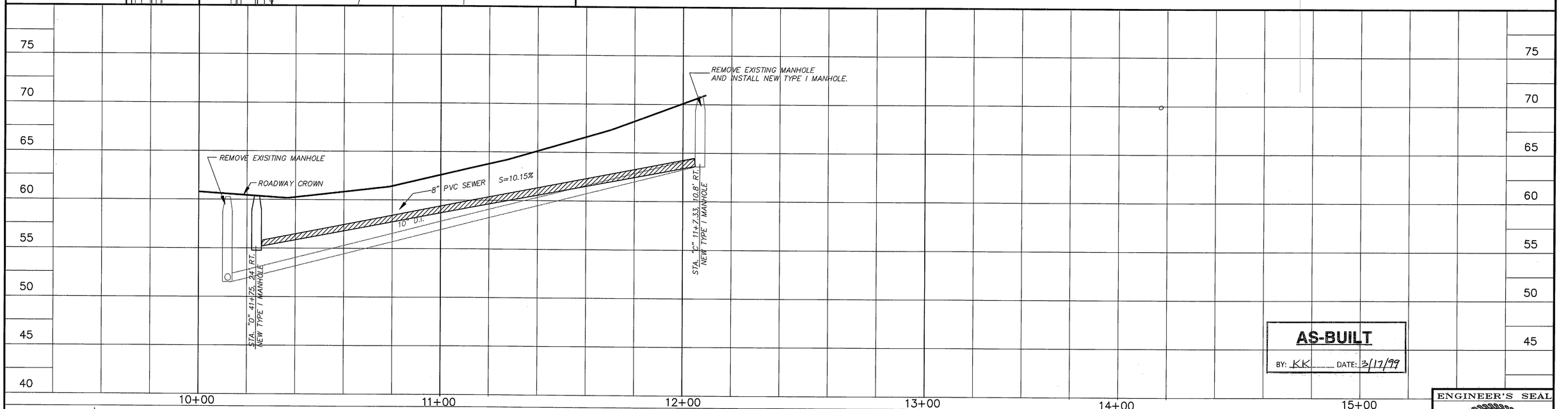
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994





PAVEMENT PATCH DETAIL
N.T.S.



AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SIT-CRB
R&M #921374/SIT-CRAB.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Irvin George Porter
No. 1841-E
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

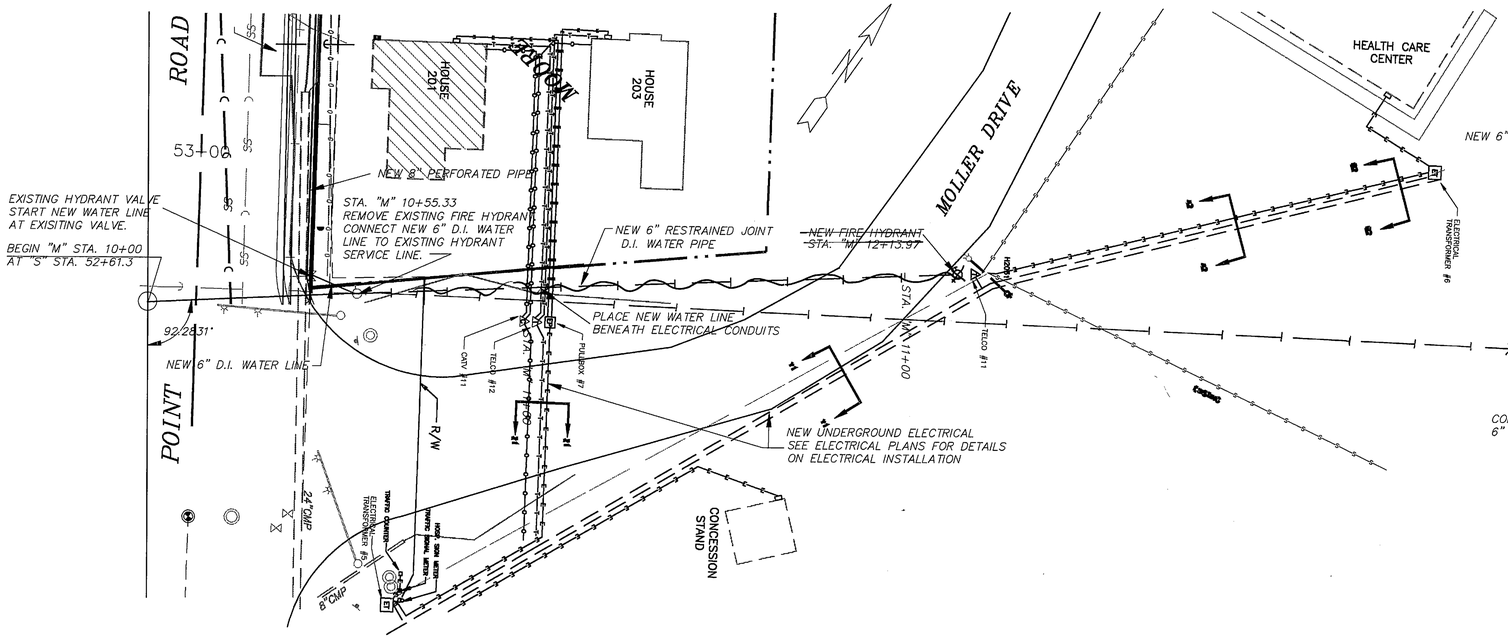
CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719
SEWER & WATER "C" LINE
STA. 10+00 TO STA. 12+09.67

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 41 OF 106

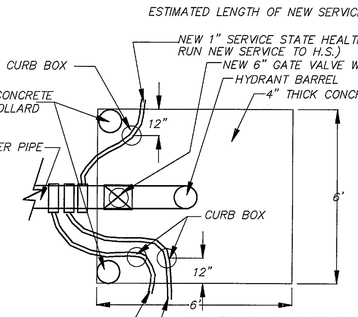
FILE: O.S. 206-41

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994



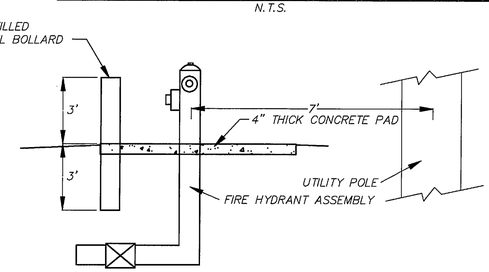
ESTIMATED LENGTH OF NEW SERVICES IS 90'



NOTE: CURB BOXES HAVE CAST IRON LID WITH "WATER" CAST IN LID. TOP OF BOX RECESSED 1/4" INTO TOP CONCRETE PAD.

FIRE HYDRANT & SERVICE CONNECTIONS

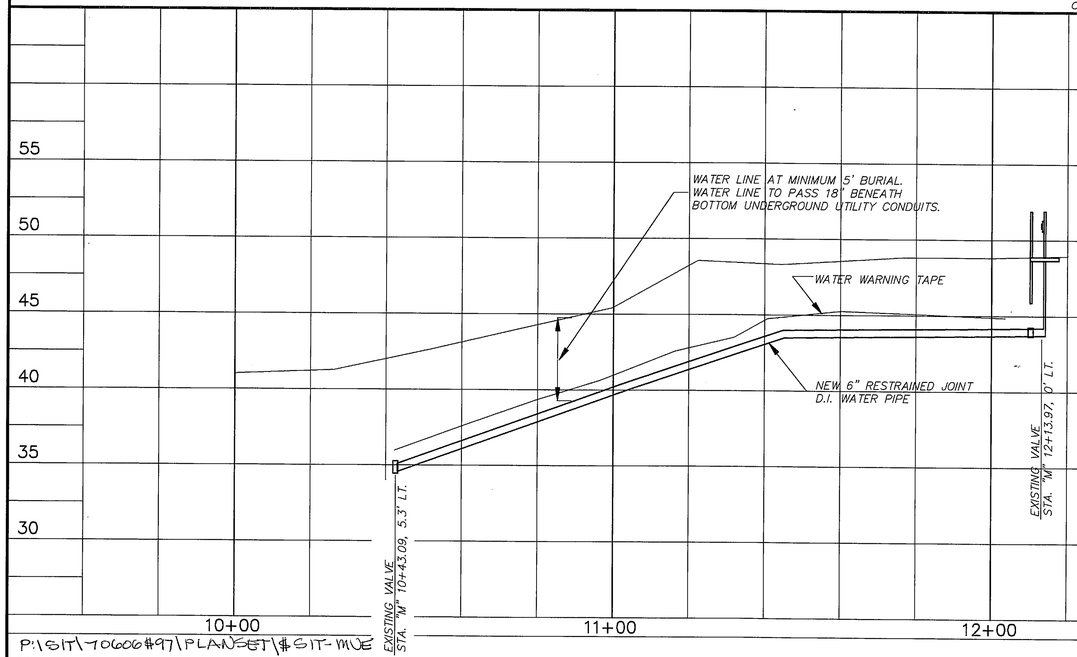
N.T.S.



BOLLARD DETAILS

N.T.S.

0' 15' 25' 50' 100'



AS-BUILT
BY: K.K. DATE: 3/17/99

P:\SIT\70606#97\PLANSET\#SIT-MUE
R&M #941304/SIT-MUE.DWG, SCALE 1=20

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/22	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS-BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

WATER "M" LINE
MOLLER STREET
STA. 10+00 TO STA. 12+14

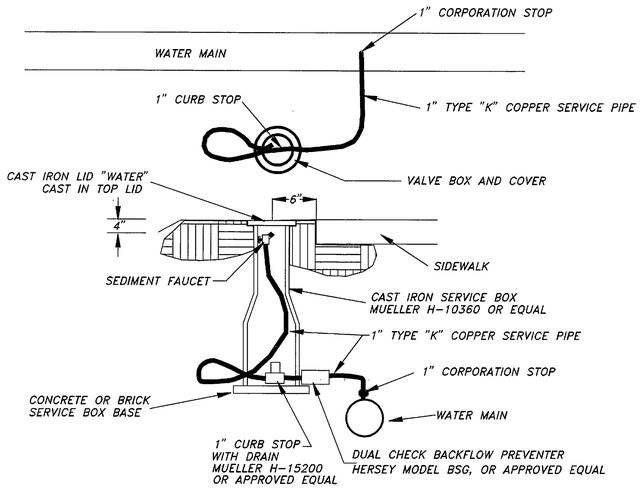
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 42 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-42

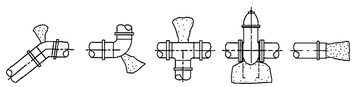
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994



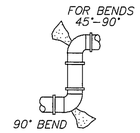
CAPTIVE AIR RELEASE VALVE

N.T.S.



45° BEND 90° BEND TEE OR Y VALVE* PLUG †OR CAP*

*–IF PIPE: USE MJ CAP W/RETAINER GLAND
†–IF FITTING: USE MJ PLUG BOLTED TO MJ BELL



PIPE SIZE	90° BEND/TEE/PLUG		45° BEND OR LESS/CROSS		VALVES
	MIN. BRG. AREA SQ,. FT.	MIN. CONC. VOL. CU. YD.	MIN. BRG. AREA SQ,. FT.	MIN. CONC. VOL. CU. YD.	MIN. CONC. VOL. CU. YD.
6"	3.0	0.3	1.6	0.25	0.25
8"	5.3	0.5	3.0	0.3	0.5
10"	8.3	0.75	4.5	0.5	0.5

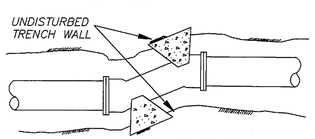
HORIZONTAL THRUST BLOCKS

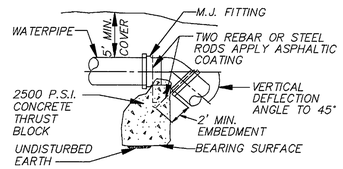
N.T.S.

PIPE SIZE	MIN. CONC. VOL.(CU. YD.)	MIN. ROD SIZE	MIN. BRG. SURFACE SQ. FT.
6"	1.0	3/4"	3.0
8"	1.5	3/4"	3.5
10"	2.5	3/4"	5.5

NOTES:

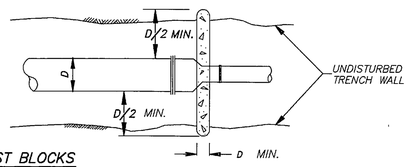
1. THRUST BLOCKS ARE REQUIRED WHENEVER PIPELINE CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS, OR DEVELOPS THRUST AT VALVES.
2. VOLUME AND BEARING SURFACE OF 2500 P.S.I. CONC. THRUST BLOCKS, BASED ON 150 P.S.I. PRESSURE AND SOIL BEARING CAPACITY OF 2000 P.S.F. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO ENGINEERS REVIEW AND APPROVAL.
3. CONCRETE THRUST BLOCKING SHALL BE POURED IN PLACE BETWEEN THE FITTING AND UNDISTURBED EARTH. MATERIAL BEHIND THE THRUST BLOCKS, DEEMED INADEQUATE BY THE ENGINEER, SHALL BE REMOVED AND QUALITY OF REPLACEMENT MATERIAL TO BE DETERMINED BY THE ENGINEER.
4. THRUST BLOCKS SHALL BE POURED SO JOINTS OF FITTINGS REMAIN CLEAR.





VERTICAL THRUST BLOCKS

N.T.S.

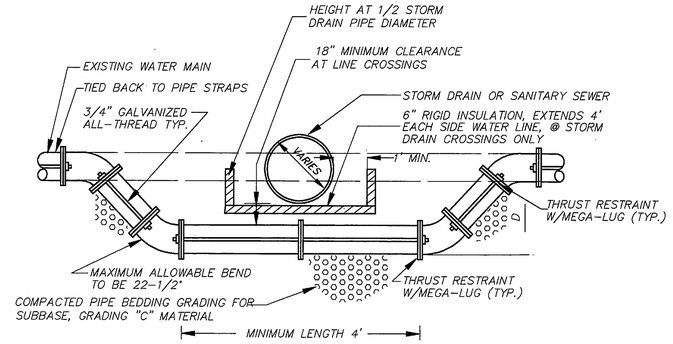


PLACEMENT OF THRUST BLOCKS

N.T.S.

THRUST BLOCK DETAILS

N.T.S.

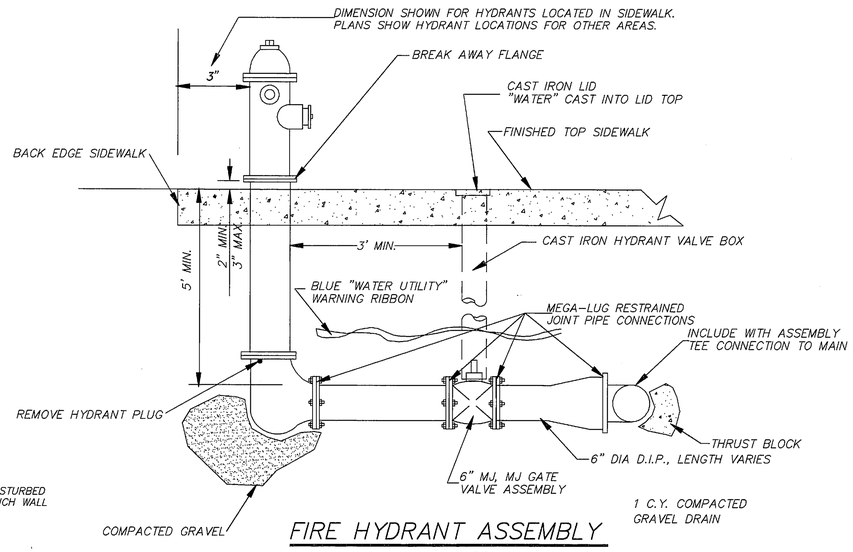


NOTES:

1) CONTRACTOR SHALL DETERMINE THE EXISTING WATER PIPE ELEVATION AT THE STORM DRAIN OR SANITARY SEWER CROSSING PRIOR TO BEGINNING STORM DRAIN INSTALLATION.
2) USE BELL TO FLANGE ADAPTER OF TYPE RECOMMENDED BY THE MANUFACTURER OF PIPE BEING RELOCATED.
3) HORIZONTAL THRUST BLOCKS REQUIRED (NOT SHOWN). VERTICAL THRUST BLOCKS NOT REQUIRED WITH MEGA-LUG.

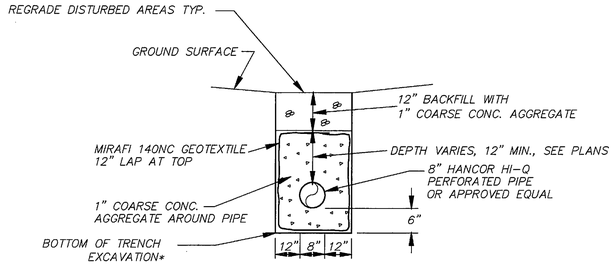
WATER MAIN RELOCATION/CROSSING DETAIL

N.T.S.



FIRE HYDRANT ASSEMBLY

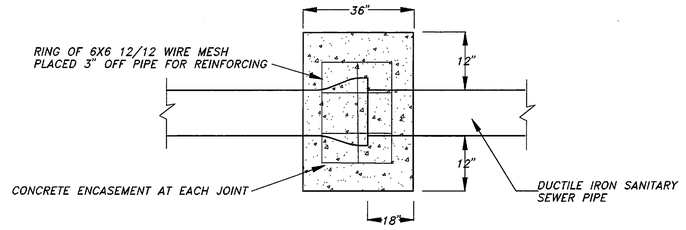
N.T.S.



TYPICAL UNDERDRAIN

N.T.S.

*NOTE: WHERE UNDERDRAIN IS LOCATED ABOVE SEWER LINE THIS IS THE BOTTOM OF THE UNDERDRAIN, NOT THE BOTTOM OF TRENCH EXCAVATION.



NOTE: USED AT SEWER CROSSINGS OF WATER LINES OR WHEN SEWER WITHIN 10' HORIZONTAL DIST. OF WATER LINE. ALTERNATE TO SEWER ENCASEMENT SHOWN ON DETAIL SHEET 44.

DUCTILE IRON SANITARY SEWER JOINT ENCASEMENT

N.T.S.

NOTES:

1. HYDRANT BARREL MUST BE PLUMB.
2. COVER SHALL BE 5' MINIMUM UNLESS SHOWN OR APPROVED OTHERWISE.
3. VALVE BOX SHALL BE SITUATED OUTSIDE ANY DITCH SECTION, IN SIDEWALK AS SHOWN, OR IN ACCESS PAD.
4. ALL HYDRANTS SHALL BE PAINTED CATERPILLAR YELLOW. HYDRANT BARREL, JUST BELOW CAP, SHALL HAVE NUMBER OF FEET TO VALVE PRINTED IN BLACK 1/2" BLOCK LETTERS.
5. MEGALUG IS A PREFERRED ALTERNATE FOR MECHANICAL JOINT RESTRAINT PIPE.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#97\PLANSET\#SIT-WDET
R&M #921374/SIT-WDET.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/11/94	P.S. & E. REVIEW COMMENT CHANGES.
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

FILE: U.S. 206-43

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

WATER/SEWER DETAILS SHEET 1

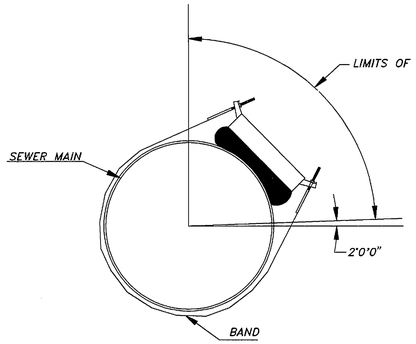
NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 43 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
71719	1994

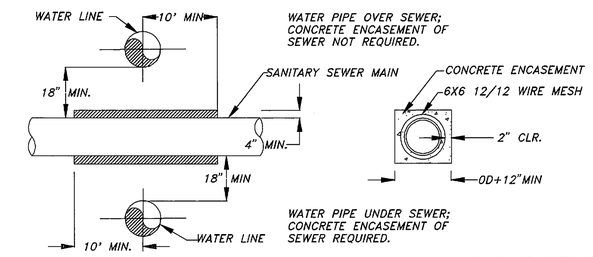


NOTES:

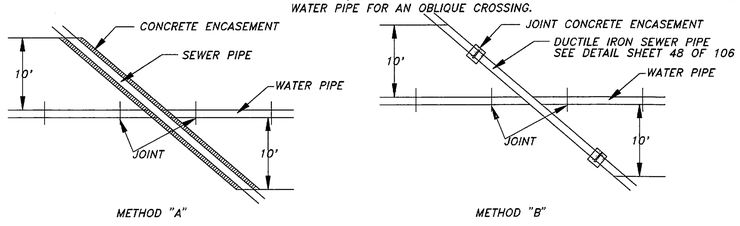
1. DETAIL SHOWN IS FOR "ROMAC CB" TYPE. OTHER INSTALLATIONS SIMILAR.
2. THE DIAMETER OF THE HOLE CUT IN THE SEWER MAIN SHALL NOT EXCEED 0.25" LARGER THAN THE OUTSIDE DIAMETER OF THE SERVICE PIPE.
3. WATER AND/OR DEBRIS SHALL NOT BE ALLOWED TO ENTER THE SEWER MAIN DURING THE TAPPING OPERATION.
4. TIGHTEN NUTS EVENLY, ALTERNATING BETWEEN THEM UNTIL A TORQUE OF 15 FT./LBS IS REACHED. SIGNIFICANT FLATTENING OF PVC PIPE INDICATES OVERTIGHTENING.
5. THE WORK MUST BE INSPECTED BY THE ENGINEER BEFORE BACKFILLING. MEASURED TIES FROM THREE PERMANENT SURFACE PHYSICAL FEATURES TO THE SEWER TEE, WYE, OR SADDLE, AND TO THE POINT THE SERVICE IS CONNNECTED OR CAPPED AT THE R/W OR PROPERTY LINE MUST BE FURNISHED TO THE CBS SEWER AND WATER UTILITY.
6. ON NEW SEWER MAINS USE TEE AND NOT A SADDLE. USE SADDLE ONLY ON EXISTING SEWERS.

SANITARY SEWER SADDLE INSTALLATION

N.T.S.

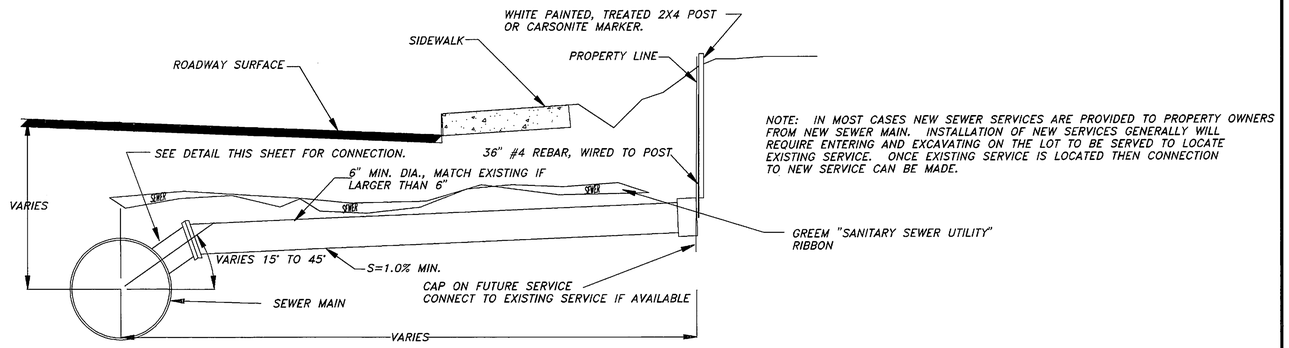


NOTE: IN NEW WORK A FULL LENGTH OF WATER PIPE SHALL BE CENTERED ON THE SANITARY SEWER CROSSING. FOR EXISTING WATER LINES, ANY WATER LINE JOINT WITHIN 10' OF THE CROSSING SHALL BE ENCASED PER DETAIL SHEET 43, SANITARY SEWER JOINT ENCASEMENT. THE 10' MINIMUM SHALL BE MEASURED PERPENDICULAR TO THE WATER PIPE FOR AN OBLIQUE CROSSING.



SANITARY SEWER ENCASEMENT

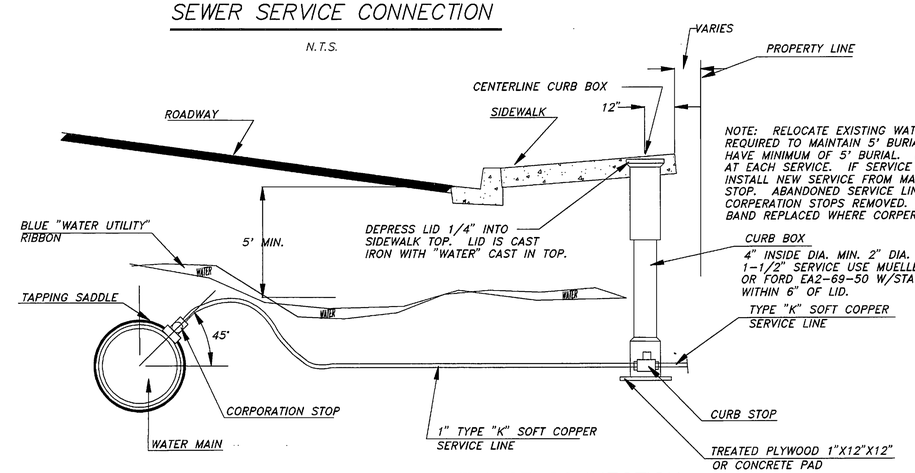
N.T.S.



NOTE: IN MOST CASES NEW SEWER SERVICES ARE PROVIDED TO PROPERTY OWNERS FROM NEW SEWER MAIN. INSTALLATION OF NEW SERVICES GENERALLY WILL REQUIRE ENTERING AND EXCAVATING ON THE LOT TO BE SERVED TO LOCATE EXISTING SERVICE. ONCE EXISTING SERVICE IS LOCATED THEN CONNECTION TO NEW SERVICE CAN BE MADE.

SEWER SERVICE CONNECTION

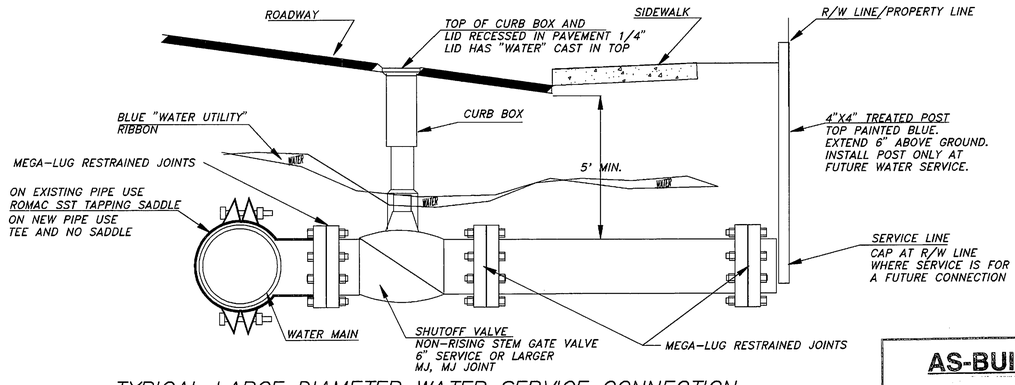
N.T.S.



NOTE: RELOCATE EXISTING WATER SERVICES AS REQUIRED TO MAINTAIN 5' BURIAL. NEW SERVICES TO HAVE MINIMUM OF 5' BURIAL. INSTALL NEW CURB BOXES AT EACH SERVICE. IF SERVICE HAS TO BE EXTENDED INSTALL NEW SERVICE FROM MAIN, WITH NEW CORPORATION STOP. ABANDONED SERVICE LINES TO BE REMOVED AND CORPERATION STOPS REMOVED. STAINLESS STEEL REPAIR BAND REPLACED WHERE CORPERATION STOPS REMOVED.

TYPICAL SMALL DIAMETER WATER SERVICE CONNECTION

N.T.S.



TYPICAL LARGE DIAMETER WATER SERVICE CONNECTION

N.T.S.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\#6ITSDET
R&M #921374/SIT-SDET.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
G.P.	7/12/94	P.S. & E. REVIEW COMMENTS
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

WATER/SEWER DETAILS SHEET 2

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 44 OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-EE
REGISTERED PROFESSIONAL ENGINEER

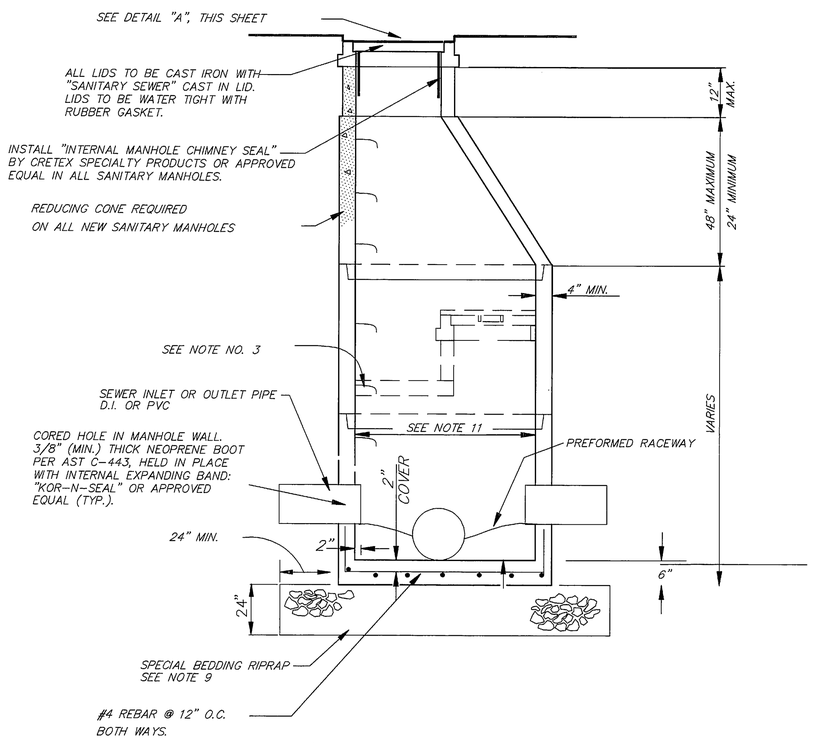
FILE: O.S. 206-44

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

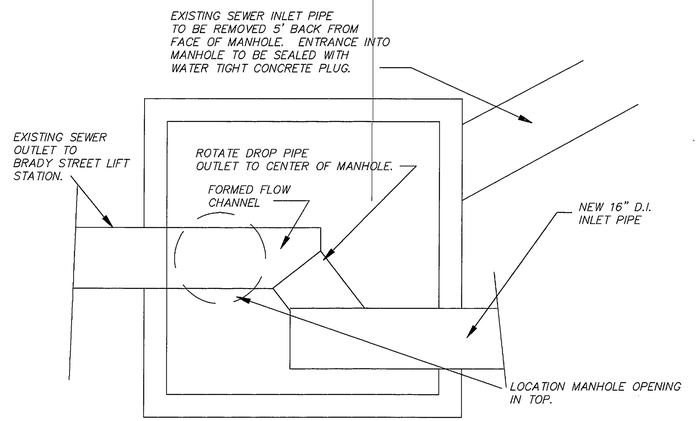
MANHOLE NOTES

1. REFER TO A.S.T.M. DESIGNATION C-478 FOR DESIGN REQUIREMENTS.
2. MINIMUM STEEL REQUIRED FOR BARREL AS PER A.S.T.M. C-478-69 SHALL BE IMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE. RUNGS INSTALLED 90° TO FLOW WHEN POSSIBLE.
4. ALL PIPES TO EXTEND 2" INTO MANHOLE.
5. BLOCKOUTS TO BE FORMED. RACEWAYS TO BE PREFORMED.
6. ALL JOINTS TO SEALED WITH "RAM-NEK" OR "RUB-R-NEK" GASKETING MATERIAL IN ACCORDANCE WITH MANUFACTRER'S SPECIFICATIONS.
7. THE EXTERIOR OF ALL JOINTS MUST PLASTERED WITH AT LEAST 1" OF BENTONITE-CEMENT SEALING PLASTER OR EQUAL.
8. ALL JOINTS AND PIPE CONNECTIONS TO MANHOLES MUST BE WATER TIGHT.
9. SPECIAL BEDDING RIPRAP, CLASS I (NO ROUND ROCK) REQUIRED FOR ALL MANHOLES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SPECIAL BEDDING IS NOT REQUIRED, USE 24" MINIMUM DEPTH OF 1" MINUS WASHED ROCK. EXISTING SOILS OR OTHER GRANULAR MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER AND COMPACTED TO 95% ASTM D-1557.
10. SEE DETAILS SHEET 49F FOR TRENCH DETAILS. USE SAME DETAILS AS CULVERTS AND STORM DRAIN.
11. TYPE I MANHOLE 4' INSIDE DIA., 4" MIN. WALL THICKNESS. TYPE II MANHOLE 6' INSIDE DIA., 6" MIN. WALL THICKNESS.



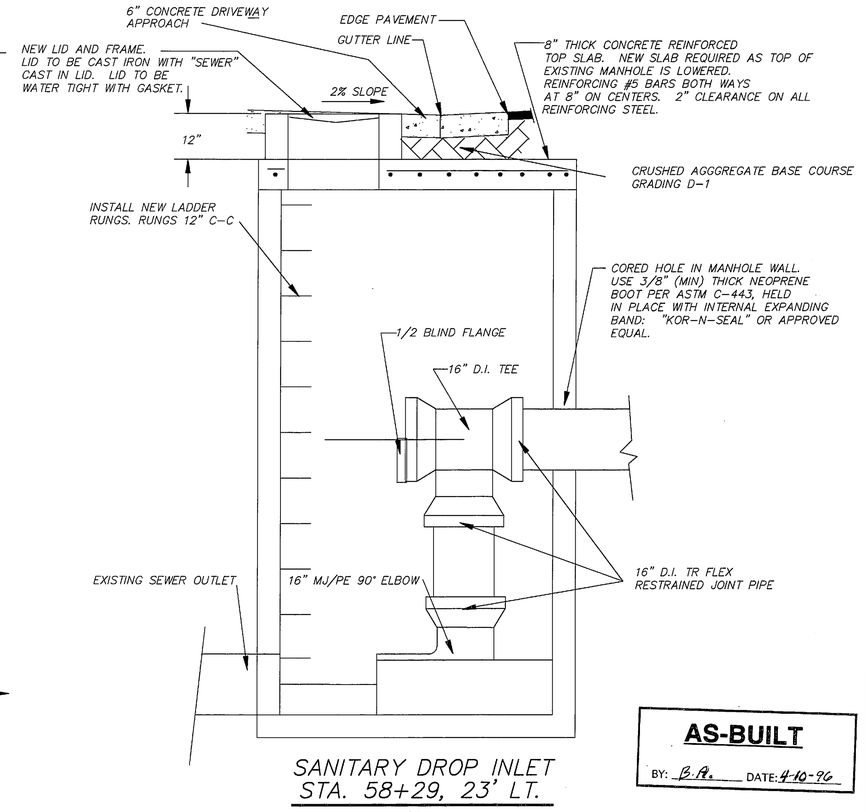
SANITARY MANHOLE DETAIL

N.T.S.



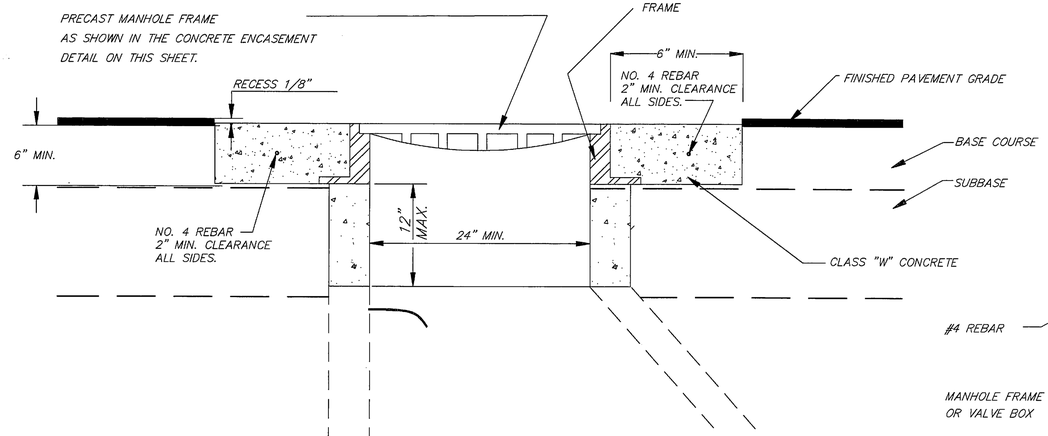
TOP VIEW MANHOLE

N.T.S.



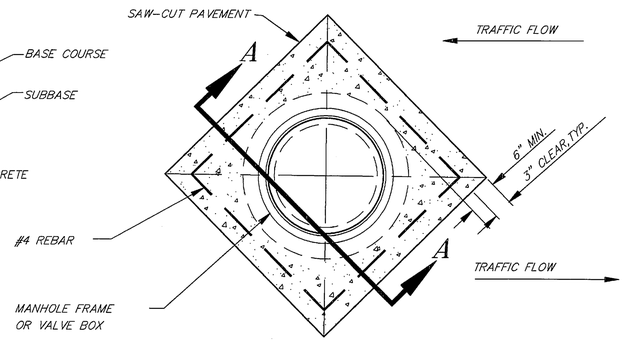
SANITARY DROP INLET
STA. 58+29, 23' LT.

N.T.S.



MANHOLE FRAME ENCASEMENT
PAVEMENT SECTION ONLY
SECTION "A-A"

N.T.S.



CONCRETE ENCASEMENT DETAIL

N.T.S.

AS-BUILT
BY: B.A. DATE: 4-10-96

P:\SIT\70606#94\PLANSET\S-WDET3.DWG R&M #921374/S-WDET3.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CITY AND BOROUGH OF SITKA SEWER/WATER
NH 099-3(3) 71719

WATER/SEWER DETAILS SHEET 3

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 45 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

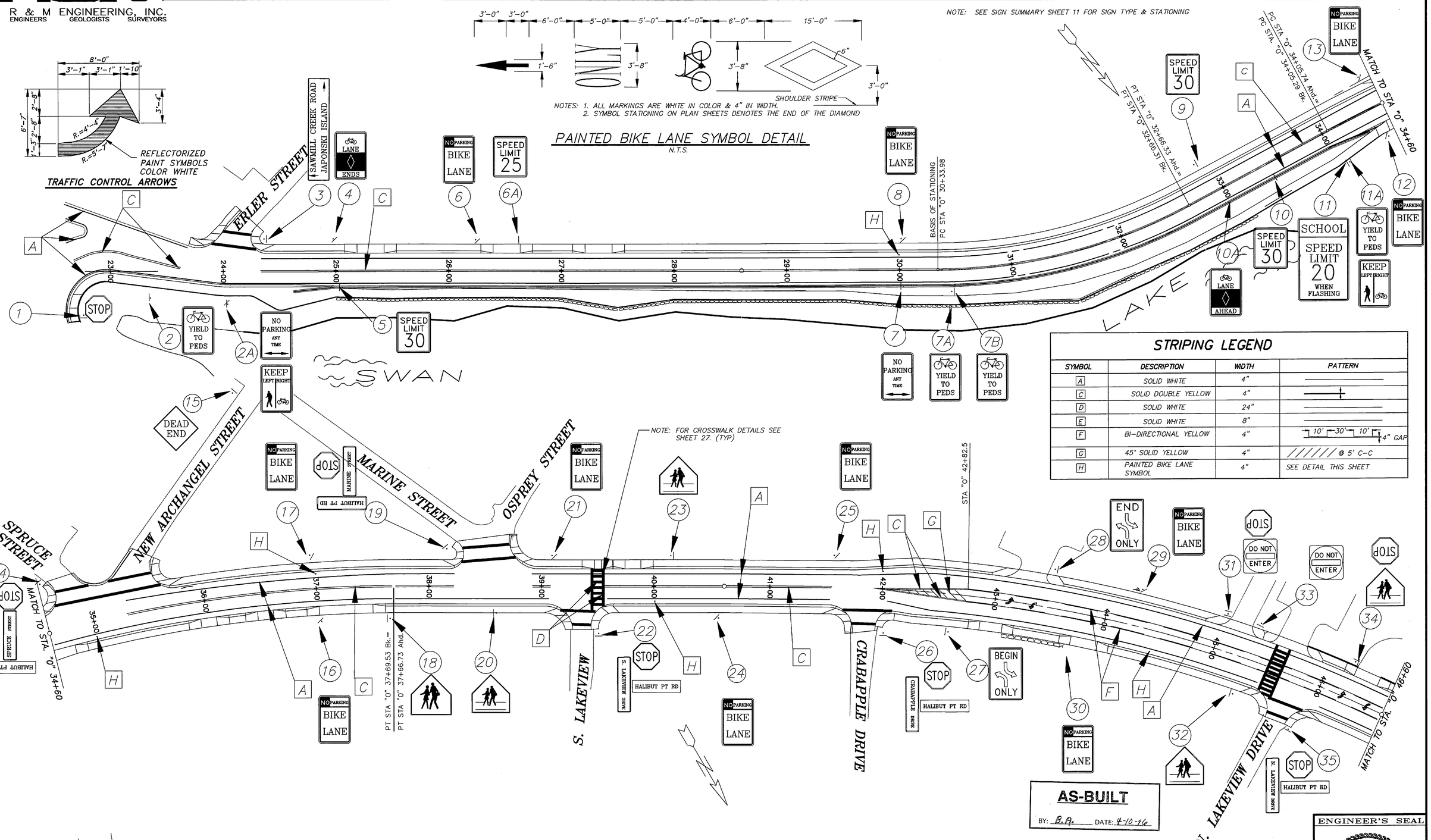
NOTE: SEE SIGN SUMMARY SHEET 11 FOR SIGN TYPE & STATIONING

REFLECTORIZED PAINT SYMBOLS COLOR WHITE

TRAFFIC CONTROL ARROWS

NOTES: 1. ALL MARKINGS ARE WHITE IN COLOR & 4" IN WIDTH.
2. SYMBOL STATIONING ON PLAN SHEETS DENOTES THE END OF THE DIAMOND

PAINTED BIKE LANE SYMBOL DETAIL
N.T.S.



STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
A	SOLID WHITE	4"	
C	SOLID DOUBLE YELLOW	4"	
D	SOLID WHITE	24"	
E	SOLID WHITE	8"	
F	BI-DIRECTIONAL YELLOW	4"	10' 30' 10' 4" GAP
G	45° SOLID YELLOW	4"	/////// @ 5' C-C
H	PAINTED BIKE LANE SYMBOL	4"	SEE DETAIL THIS SHEET

AS-BUILT
BY: B.A. DATE: 4-10-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606\94\PLANSET\SIT-S1
R&M #921374/SIT-S1.DWG/SCALE 1=20

BY:	DATE:	DESCRIPTION OF CHANGE:
GP	5/16/94	REVISED TO ADD BIKE LANE
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
STRIPING & SIGNAGE PLAN

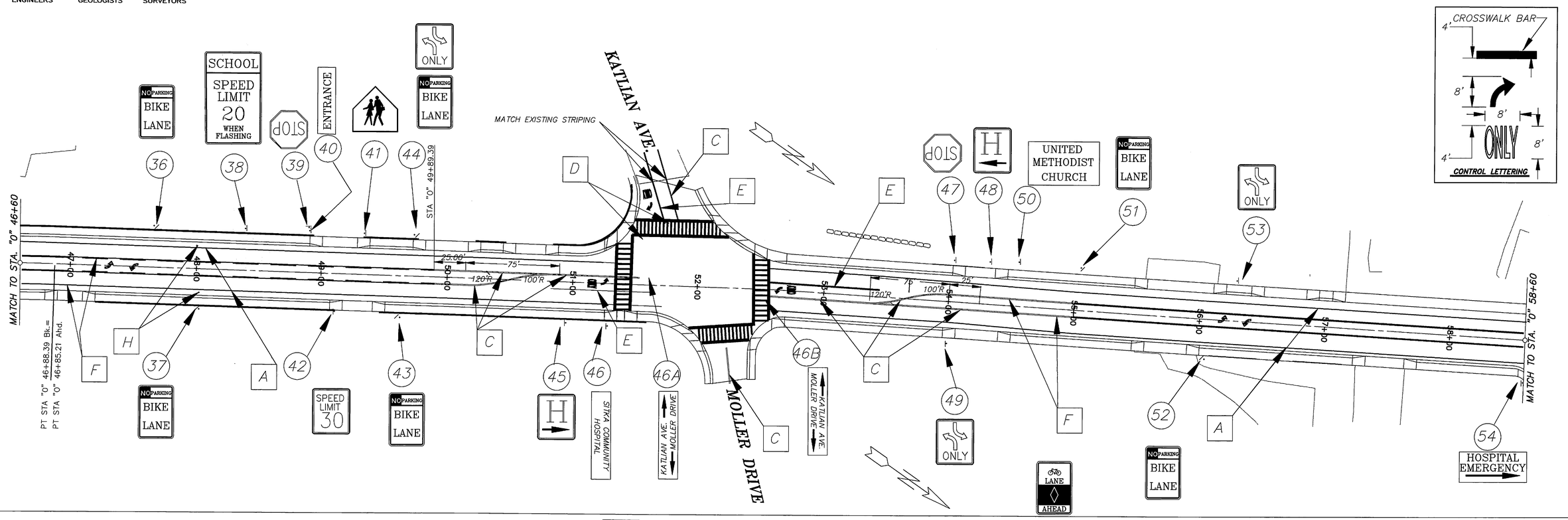
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 46 OF 106

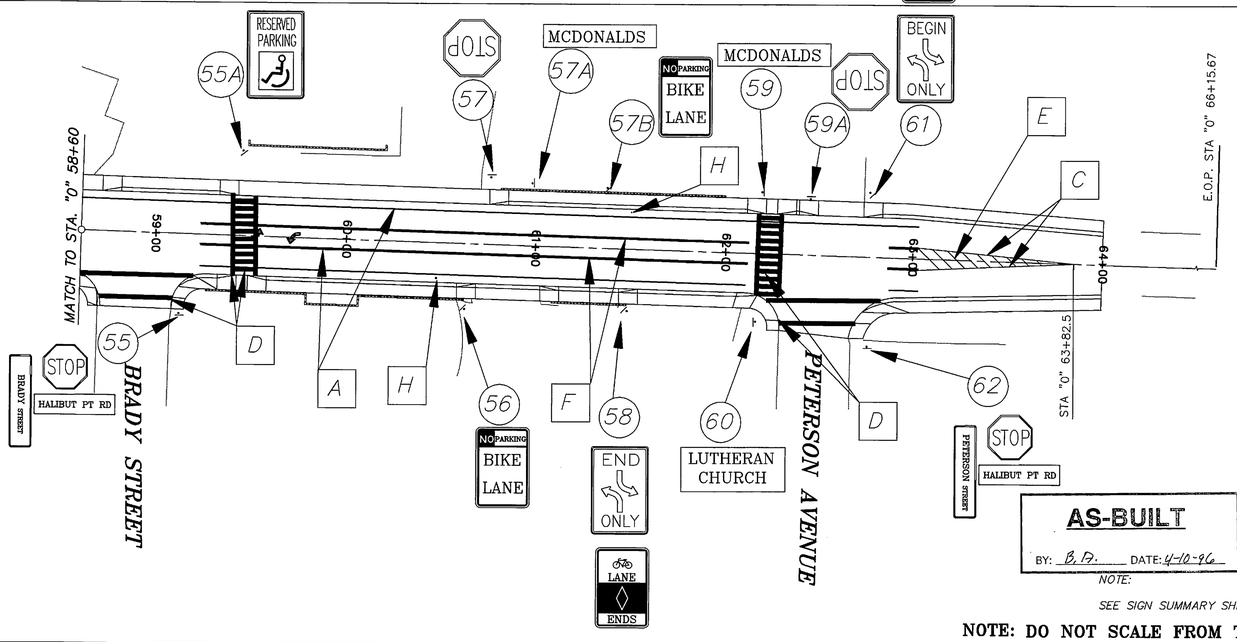
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206-46

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994





STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
A	SOLID WHITE	4"	
C	SOLID DOUBLE YELLOW	4"	4" GAP
D	SOLID WHITE	24"	
E	SOLID WHITE	8"	
F	BI-DIRECTIONAL YELLOW	4"	10' 30' 10' 4" GAP
G	45° SOLID YELLOW	4"	/////// @ 5' C-C
H	PAINTED BIKE LANE SYMBOL	4"	SEE DETAIL SHEET 19 OF 106

LOCATION OF ℄ & SHOULDER LINES

℄ 11' SHOULDER LINE / FACE OF CURB 1.5'	25+00, RT TO 34+00, RT
℄ 11' SHOULDER LINE / FACE OF CURB 4.5'	37+50, RT TO 41+50, RT 25+00, LT TO 41+50, LT
℄ 11' SHOULDER LINE / FACE OF CURB 5'	34+50, RT TO 37+00, RT
℄ 11' SHOULDER LINE / FACE OF CURB 7.5'	42+12, RT TO 42+45, RT 42+12, LT TO 42+45, LT
℄ 5.5' 11' SHOULDER LINE / FACE OF CURB 4.5'	42+45, RT TO 50+20, RT 42+45, LT TO 50+20, LT 51+00, RT TO 63+00, RT 51+00, LT TO 63+00, LT

AS-BUILT
BY: B.P. DATE: 4-10-96

NOTE:
SEE SIGN SUMMARY SHEET 11 AND 12 FOR SIGN TYPE AND LOCATION.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606#94\PLANSET\#SIT-S2
R&M #927374/SIT-S2.DWG/SCALE 1=20

BY:	DATE:	DESCRIPTION OF CHANGE:
GP	5/16/94	REVISED TO ADD BIKE LANE
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

FILE: O.S. 206-47

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

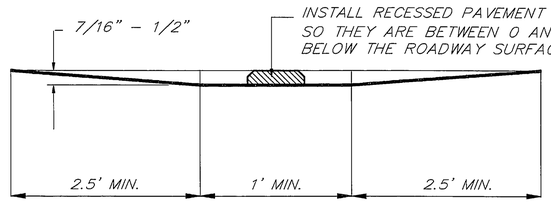
STRIPING & SIGNAGE PLAN

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 47 OF 106

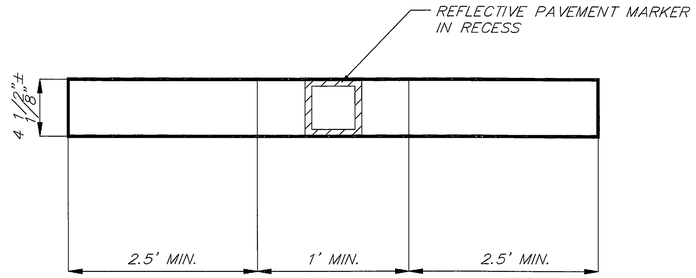
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Irvin George Porter No. 1841-E
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

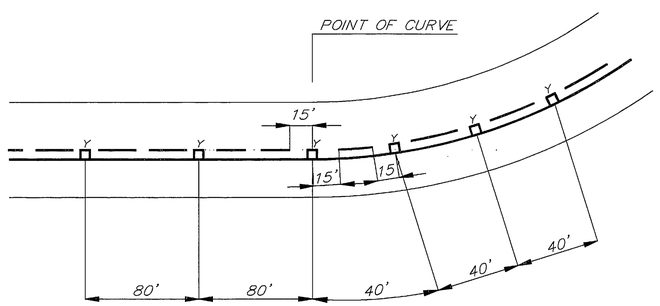
PROJECT DESIGNATION	YEAR
70606	1994



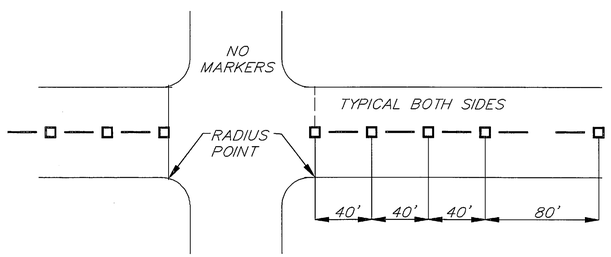
SECTION X–X
RECESSED PAVEMENT MARKER



PLAN
RECESSED PAVEMENT MARKER



TWO LANE, TWO WAY DETAIL
RECESSED PAVEMENT MARKER

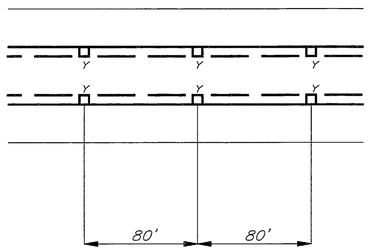


INTERSECTION APPROACH DETAIL
RECESSED PAVEMENT MARKER

R.P.M. SPACING TABLE

BEG. STA. "0" LINE	END STA. "0" LINE	SPACING * 80	40
22+92	23+73		X
24+36	25+56		X
25+56	30+36	X	
30+36	34+70		X
35+70	38+10		X
39+00	41+40	X	
42+00	46+80		X
46+80	50+00	X	
50+00	51+20		X
52+60	53+80		X
53+80	57+00	X	
57+00	58+20		X
59+30	62+10		X
62+80	64+00		X

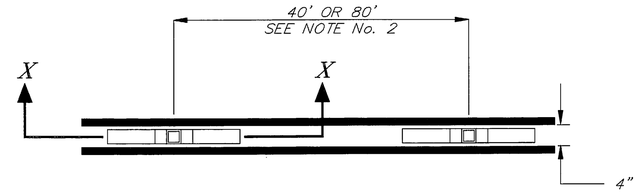
* SEE DETAIL BELOW FOR R.P.M. SPACING AT INTERSECTION.



BI–DIRECTIONAL TURNING LANE DETAIL
RECESSED PAVEMENT MARKER

NOTES:

1. INSTALL REFLECTIVE PAVEMENT MARKERS FROM STATION "0" 20+55.24 TO STATION "0" 64+00
2. RPM's SHALL NOT BE PLACED IN INTERSECTIONS WITH PUBLIC ROADWAYS, R.P.M. SPACING SHALL START OVER AT INTERSECTION BOUNDARY.
3. ONLY PUBLIC ROADWAYS WILL BE MARKED AS INTERSECTION APPROACHES.
4. REFLECTIVE PAVEMENT MARKERS SHALL HAVE DUAL YELLOW REFLECTIVE SURFACES.



INSTALLATION DETAILS
RECESSED PAVEMENT MARKER

AS-BUILT
BY: B.A. DATE: 4-18-96

P:\SIT\70606$99\PLANSET\#S-MARKR
R&M #921374/S-MARKER.DWG 1=20

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/14	P.S. & E. REVIEW CHANGES
K.K.	3\17\99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
RECESSED PAVEMENT MARKER & DETAILS

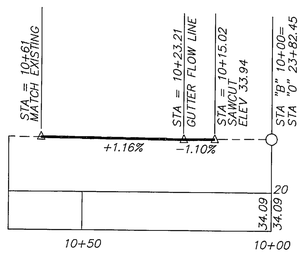
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 48 OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

FILE: O.S. 206–48

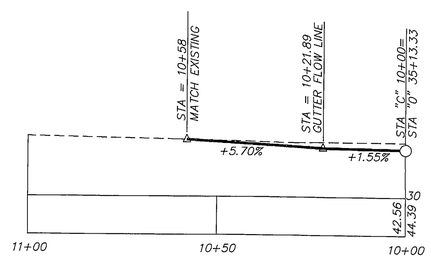
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



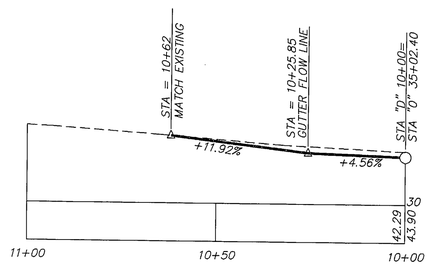
STA "0" 23+82.45=
STA "B" 10+00

ERLER STREET



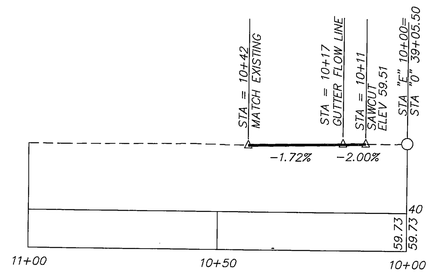
STA "0" 35+13.33=
STA "C" 10+00

SPRUCE STREET



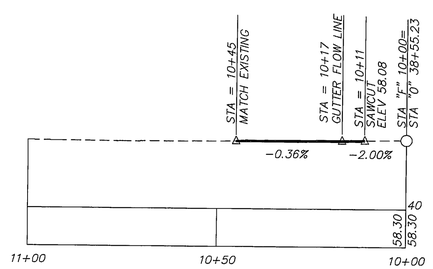
STA "0" 35+02.40=
STA "D" 10+00

NEW ARCHANGEL STREET



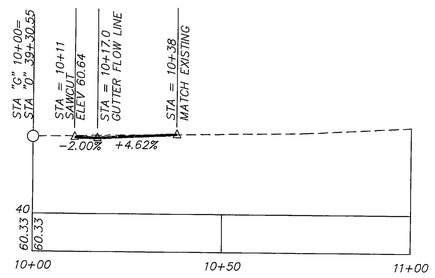
STA "0" 39+05.50
STA "E" 10+00

MARINE STREET



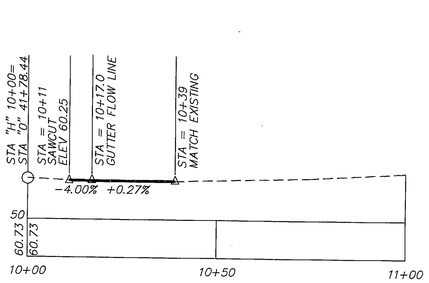
STA "0" 38+55.23=
STA "F" 10+00

OSPREY STREET



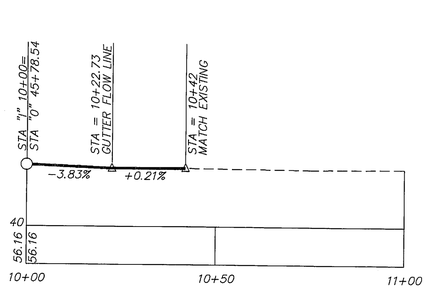
STA "0" 39+30.55=
STA "G" 10+00

S. LAKEVIEW DRIVE



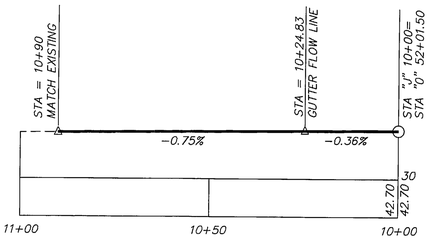
STA "0" 41+78.44=
STA "H" 10+00

CRABAPPLE DRIVE



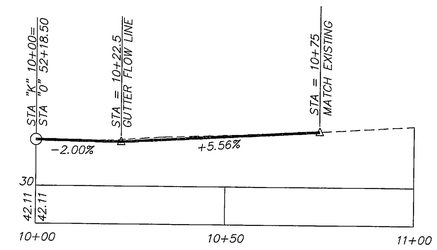
STA "0" 45+78.54=
STA "I" 10+00

N. LAKEVIEW DRIVE



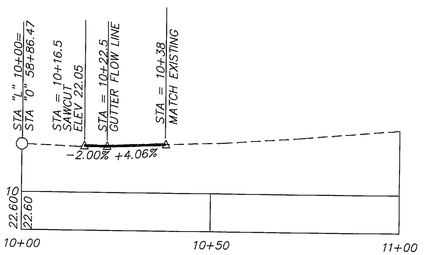
STA "0" 52+01.50=
STA "J" 10+00

KATLIAN AVE



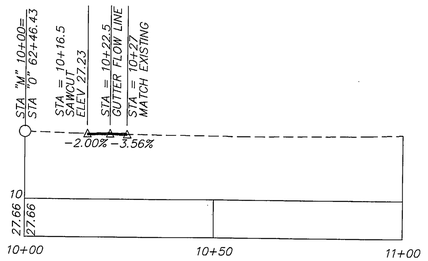
STA "0" 52+18.50=
STA "K" 10+00

MOLLER STREET



STA "0" 58+86.47=
STA "L" 10+00

BRADY STREET



STA "0" 62+46.43=
STA "M" 10+00

PETERSON STREET

AS-BUILT
BY: B.A. DATE: 4-10-96

P:\SIT\70606#94\PLANSET\#SIT-APP
R&M #921374/SIT-APP.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILT

RECORD OF REVISIONS

FILE O.S. 206-49

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 009-3(3) 7060

APPROACH PROFILES

STA. "0" 23+82.45 TO "0" 62+46.43

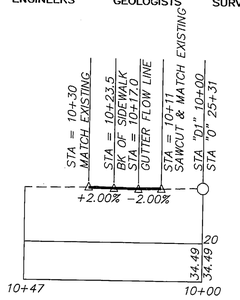
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49 OF 106

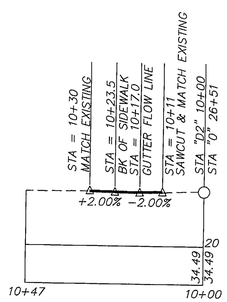
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

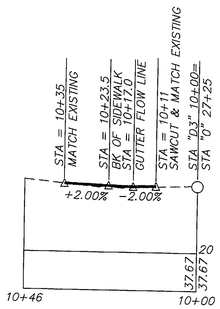
PROJECT DESIGNATION	YEAR
70606	1994



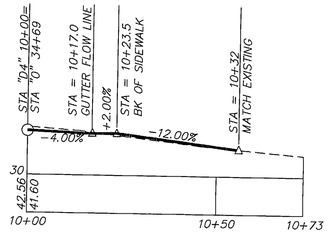
STA "0" 25+31=
STA "D1" 10+00



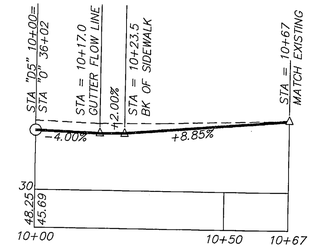
STA "0" 26+51=
STA "D2" 10+00



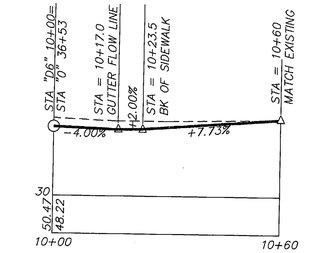
STA "0" 27+33=
STA "D3" 10+00



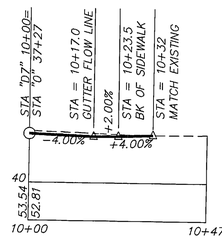
STA "0" 34+69=
STA "D4" 10+00



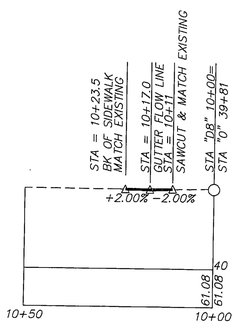
STA "0" 36+02=
STA "D5" 10+00



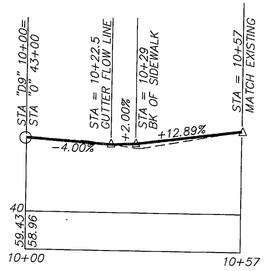
STA "0" 36+53=
STA "D6" 10+00



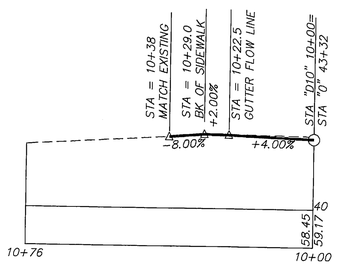
STA "0" 37+27=
STA "D7" 10+00



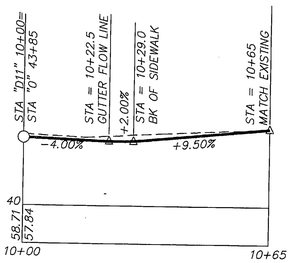
STA "0" 39+81=
STA "D8" 10+00



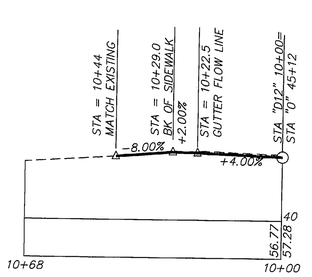
STA "0" 43+00=
STA "D9" 10+00



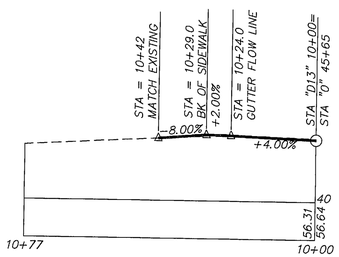
STA "0" 43+32=
STA "D10" 10+00



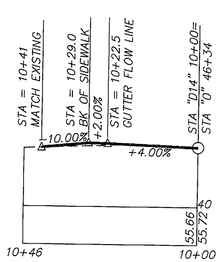
STA "0" 43+85=
STA "D11" 10+00



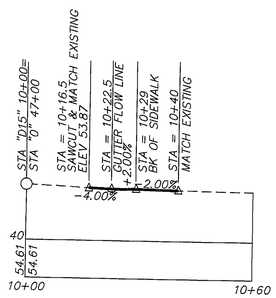
STA "0" 45+12=
STA "D12" 10+00



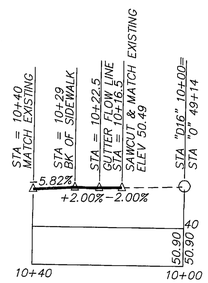
STA "0" 45+65=
STA "D13" 10+00



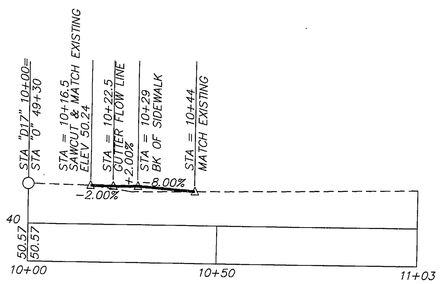
STA "0" 46+34=
STA "D14" 10+00



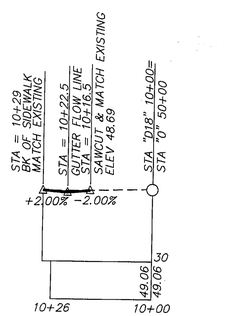
STA "0" 47+00=
STA "D15" 10+00



STA "0" 49+14=
STA "D16" 10+00



STA "0" 49+30=
STA "D17" 10+00



STA "0" 50+00=
STA "D18" 10+00

AS-BUILT
BY: B.P. DATE: 4-10-96

P:\SIT\70606#94\PLANSET\#SIT-DW1
R&M #921374/SIT-DW1.DWG

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS BUILT

RECORD OF REVISIONS

FILE O.S. 206-49A

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 009-3(3) 70606
DRIVEWAY PROFILES
B.O.P. "0" TO STA. "0" 62+50

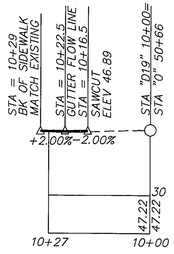
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49A OF 106

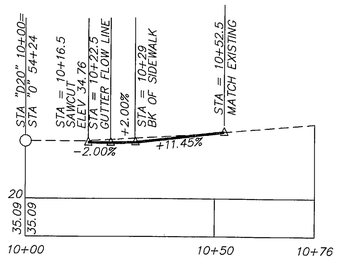
ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

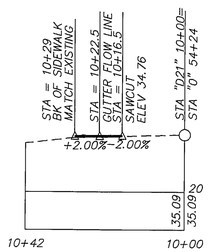
PROJECT DESIGNATION	YEAR
70606	1994



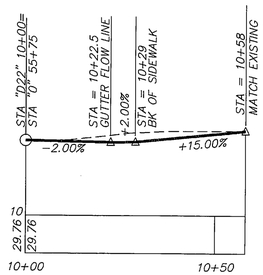
STA "0" 50+66=
STA "D19" 10+00



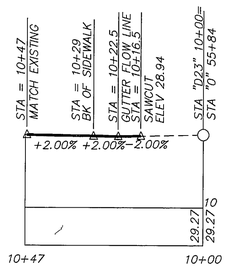
STA "0" 54+24=
STA "D20" 10+00



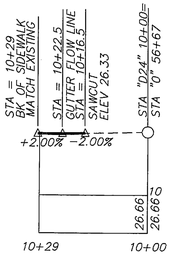
STA "0" 54+24=
STA "D21" 10+00



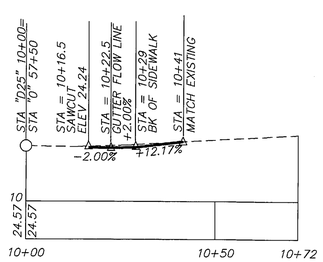
STA "0" 55+75=
STA "D22" 10+00



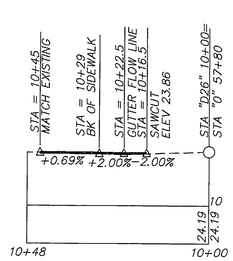
STA "0" 55+84=
STA "D23" 10+00



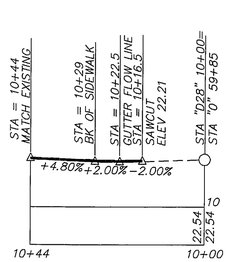
STA "0" 56+67=
STA "D24" 10+00



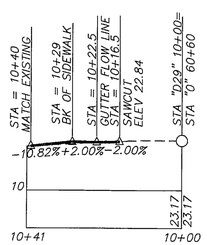
STA "0" 57+50=
STA "D25" 10+00



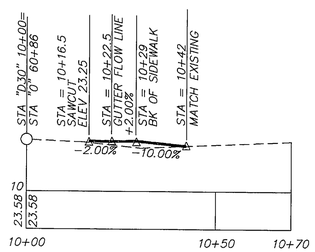
STA "0" 57+91=
STA "D26" 10+00



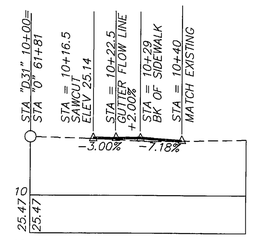
STA "0" 59+85=
STA "D27" 10+00



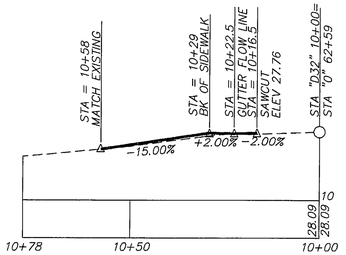
STA "0" 60+60=
STA "D28" 10+00



STA "0" 60+86=
STA "D29" 10+00



STA "0" 61+81=
STA "D30" 10+00



STA "0" 62+59=
STA "D31" 10+00

AS-BUILT
BY: BA DATE: 4-10-96

P:\SIT\70606#94\PLANSHT\#SIT-DW2
R&M #921374/SIT-DW2.DWG

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 009-3(3) 7060
DRIVEWAY PROFILES
STA. "0" 50+66.0 TO "0" STA.62+59.59

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ G.D.M.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49B OF 106

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

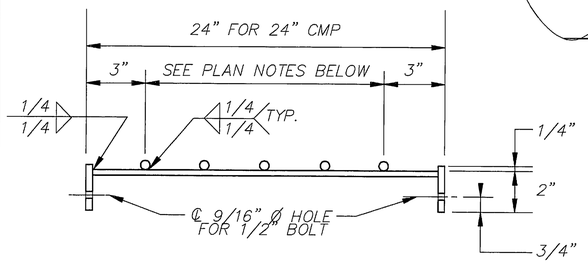
FILE O.S. 206-49B

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

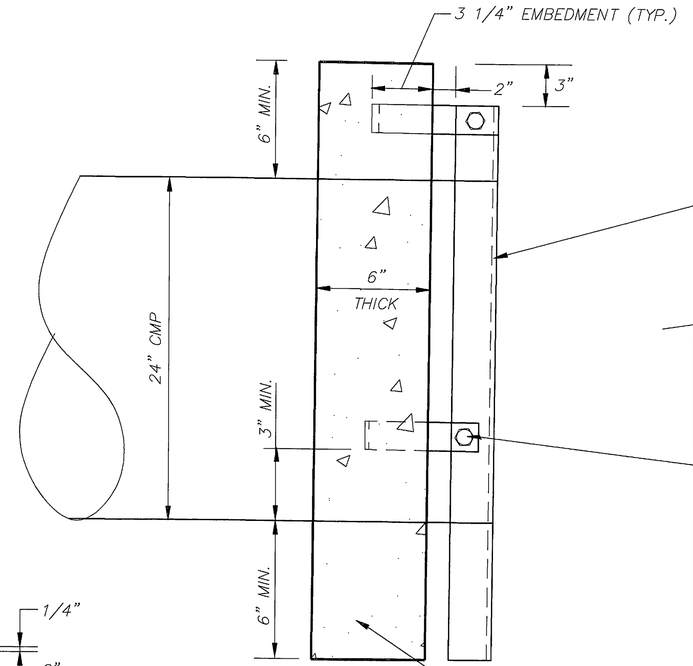
PROJECT DESIGNATION	YEAR
70606	1994

NOTES:

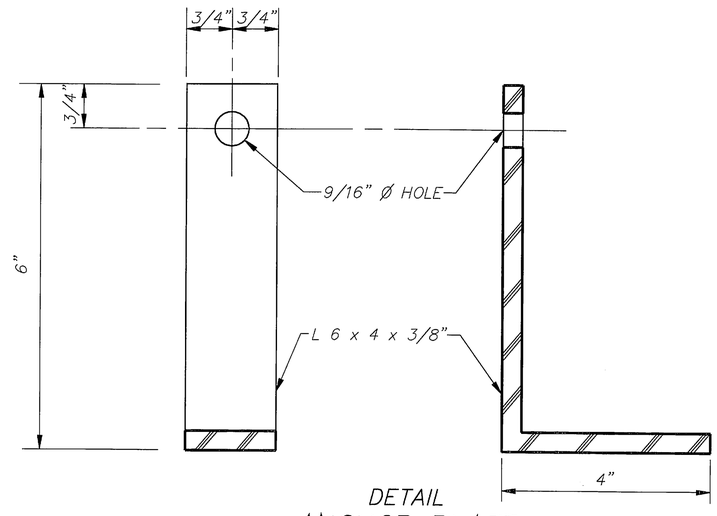
1. CULVERT GRATE AND ANCHOR PLATE SHALL BE A-36 STEEL AND GALVANIZED AFTER FABRICATION.
2. BOLTS AND NUTS SHALL BE A325 AND GALVANIZED.



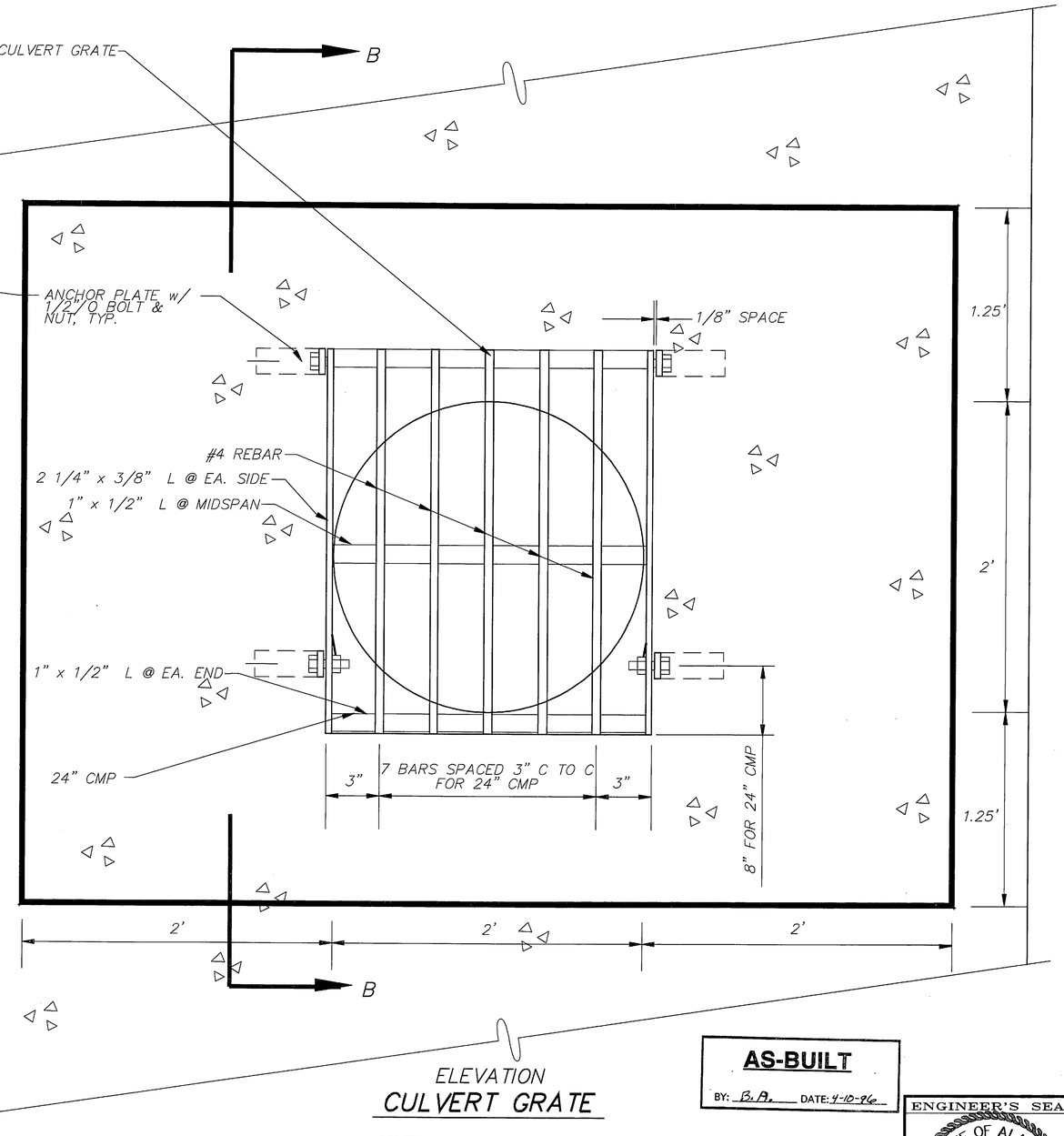
SECTION A-A
CULVERT GRATE



SECTION B-B
CULVERT GRATE



DETAIL
ANCHOR PLATE



ELEVATION
CULVERT GRATE

AS-BUILT
BY: B.A. DATE: 4-10-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Malcolm A. Menzies
No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER
4/10/96

P:\SIT\70606#94\PLANSET\#S-GRATE
R&M #921374/S-GRATE.DWG 1=20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/14	P.S. & E. REVIEW CHANGES
K.K.	3/17/98	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

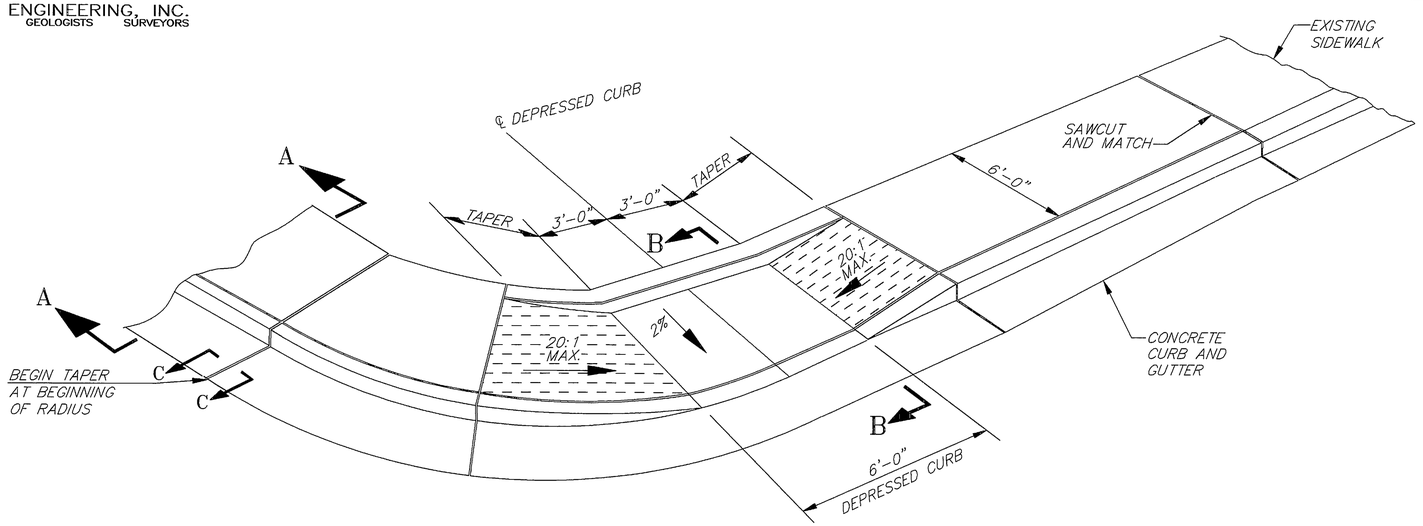
CULVERT GRATE DETAILS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/ I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49C OF 106

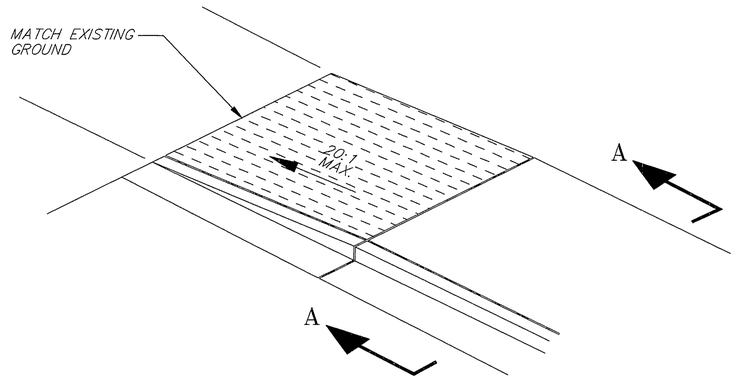
FILE: O.S. 206-49C

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

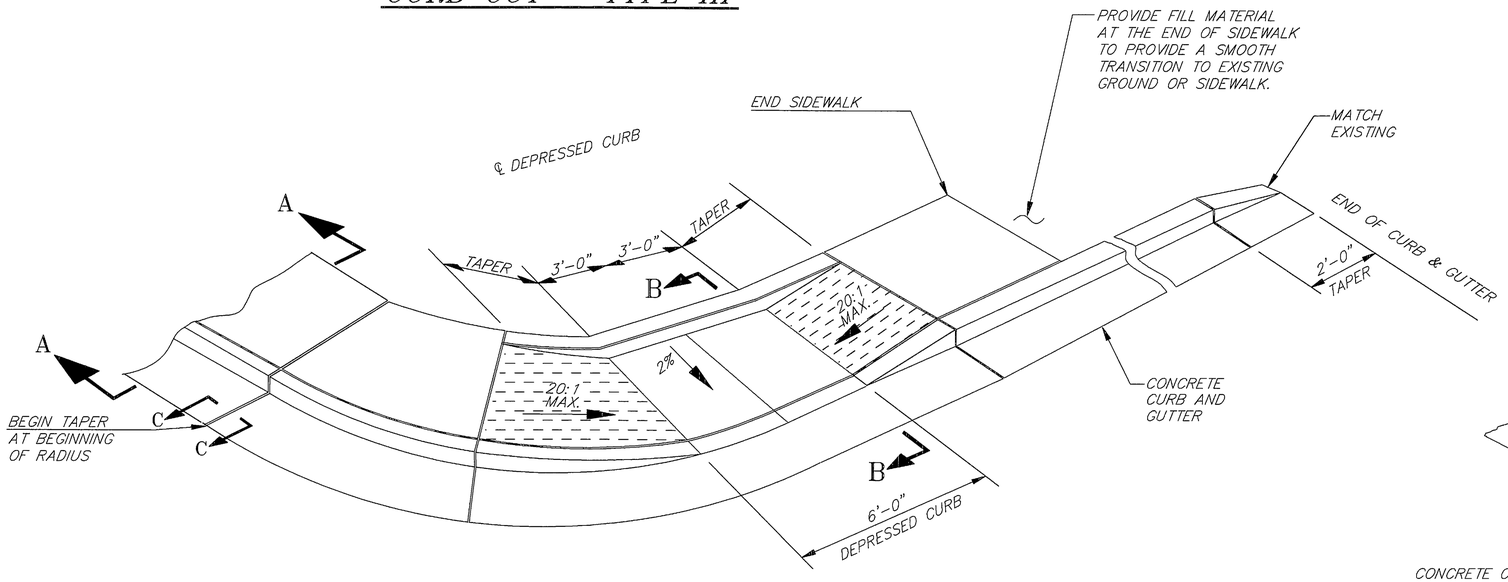
PROJECT DESIGNATION	YEAR
70606	1994



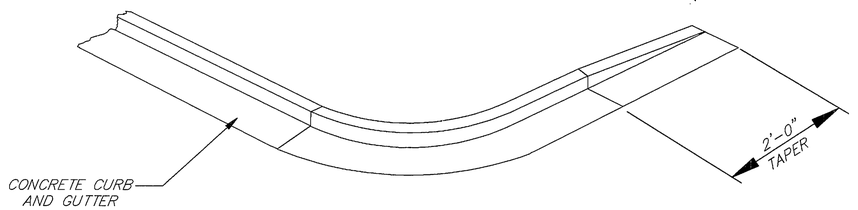
CURB CUT – TYPE III



CURB CUT – TYPE V



CURB CUT – TYPE IV



CURB CUT – TYPE VI

AS-BUILT
BY: B.A. DATE: 4-10-96

NOTE:

SEE SECTION A–A, B–B, C–C, & D–D ON SHEET 49E

P:\SIT\70606#94\PLANSET\#3-RAMP
R&M #921374/S-RAMP.DWG 1=20

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/14	P.S. & E. REVIEW CHANGES
K.K	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606

SIDEWALK DETAILS

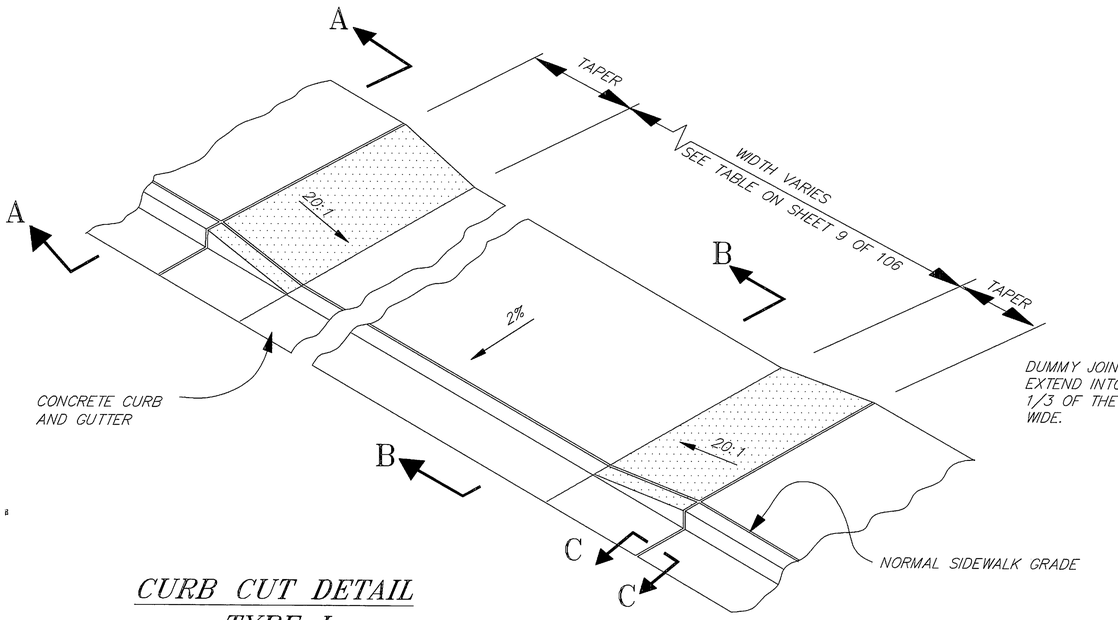
DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49D OF 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1655–CE
REGISTERED PROFESSIONAL ENGINEER

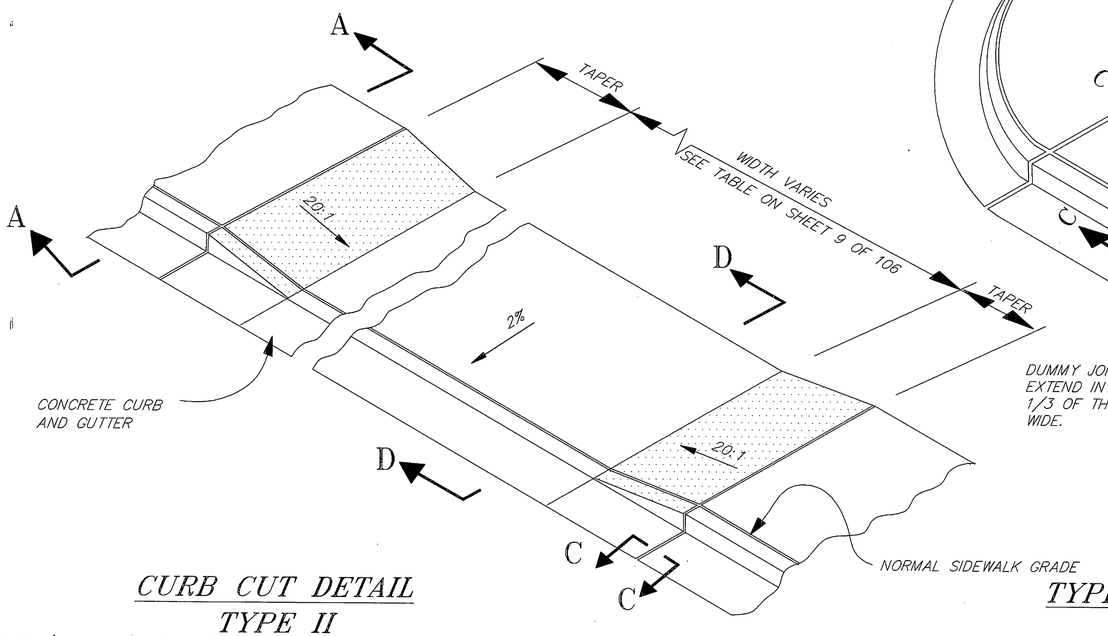
FILE: O.S. 206–49D

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

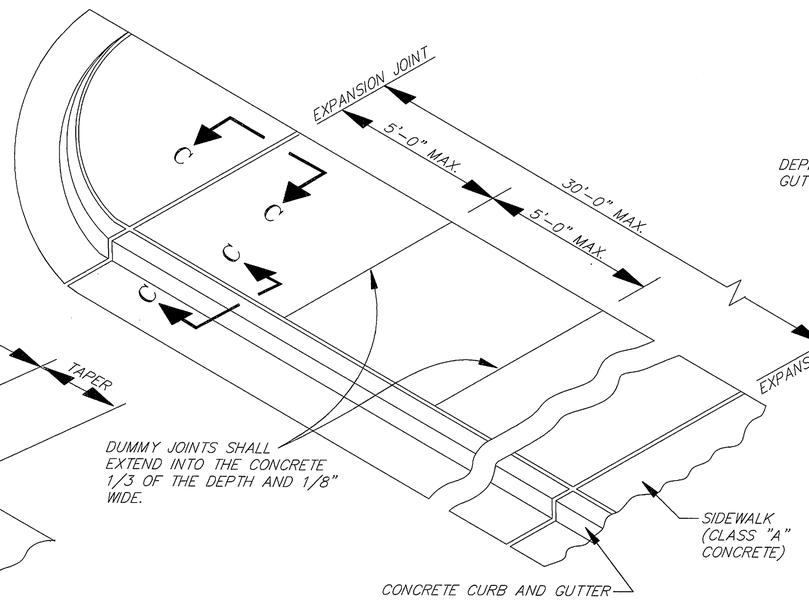
PROJECT DESIGNATION	YEAR
70606	1994



CURB CUT DETAIL TYPE I



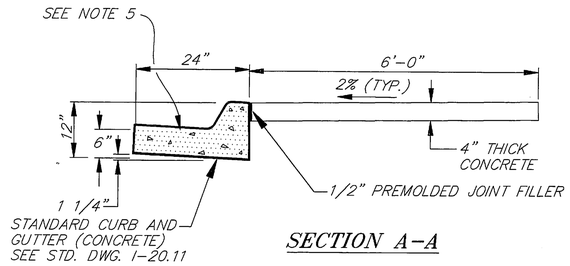
CURB CUT DETAIL TYPE II



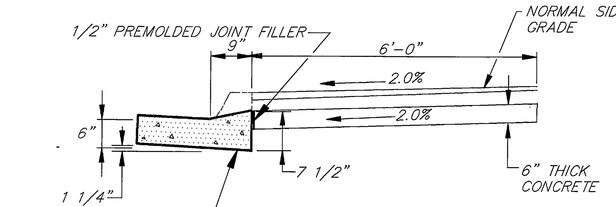
TYPICAL SIDEWALK, CURB & GUTTER JOINT DETAIL

SIDEWALK, CURB AND GUTTER NOTES

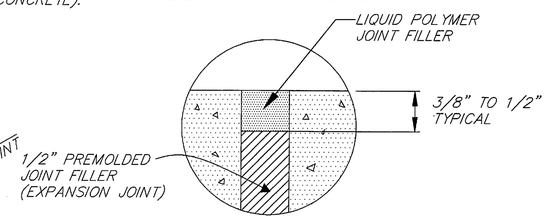
1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND IMMEDIATELY PRECEEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30'-0" MAXIMUM.
2. ALL CURB AND GUTTERS SHALL BE CLASS "A" CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF fc = 3000 psi.
3. CURB CUT FOR RESIDENTIAL DRIVEWAYS AND CURB RETURNS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 20:1.
4. ALL CURB RETURNS SHALL BE WHEELCHAIR ACCESSIBLE AS SHOWN ON THIS SHEET.
5. WHERE THERE IS SUPERELEVATION THE GUTTER PAN ON THE HIGH SIDE OF THE ROADWAY SHALL MATCH THE SLOPE OF THE ROADWAY AND DRAIN TOWARD THE CENTER OF THE ROADWAY.



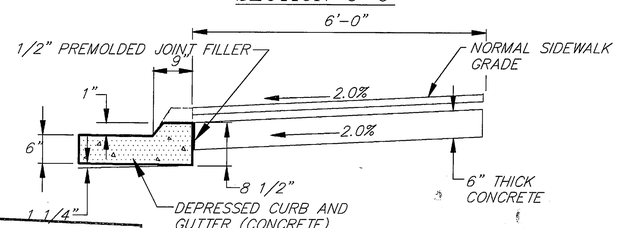
SECTION A-A



SECTION B-B DEPRESSED CURB



SECTION C-C



SECTION D-D DEPRESSED CURB

AS-BUILT
BY: B.P. DATE: 4-10-96

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\94[PLAN]SET\#S-CURB
R&M #921374/S-CURB.DWG 1-20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/14	P.S. & E. REVIEW CHANGES
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
SIDEWALK DETAILS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49E OF 106

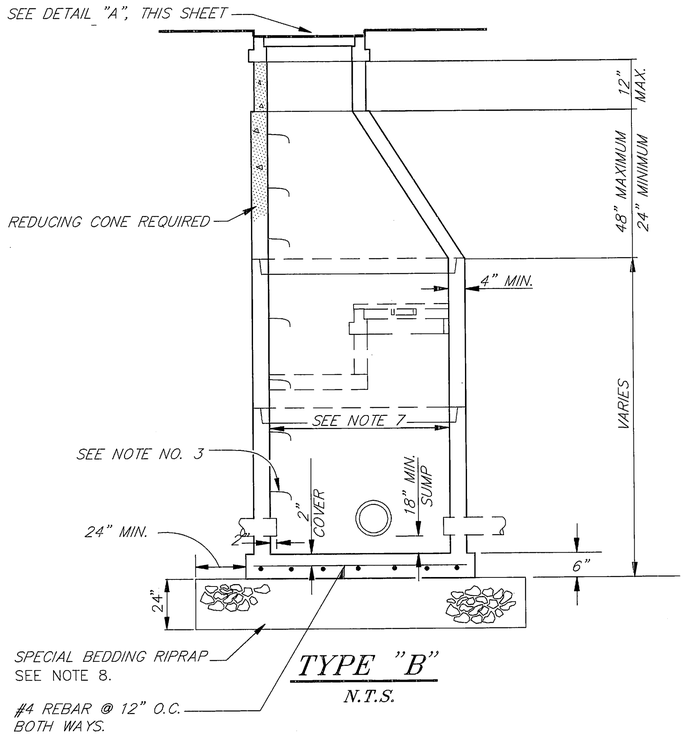
FILE: O.S. 206-49E

PROJECT DESIGNATION	YEAR
70606	1994

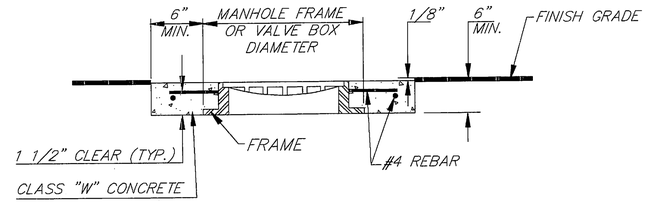
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

MANHOLE NOTES

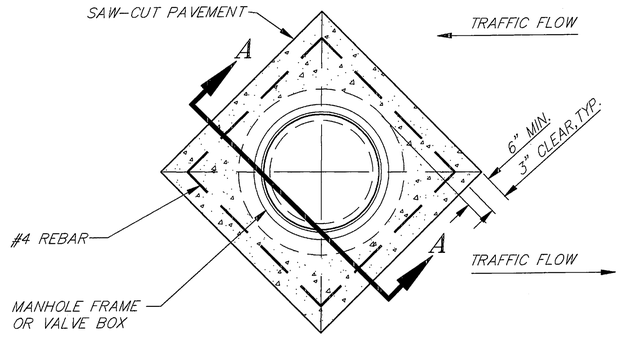
1. REFER TO A.S.T.M. DESIGNATION C-478 FOR DESIGN REQUIREMENTS.
2. MINIMUM STEEL REQUIRED FOR BARREL AS PER A.S.T.M. C-478-69 SHALL BE IMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE.
4. ALL PIPES TO EXTEND 2" INTO MANHOLE.
5. BLOCKOUTS TO BE FORMED.
6. PRIMARY LEADS NOT TO EXCEED 30" C.M.P. OR 27" R.C.P. WITH INCLUDED ANGLE BETWEEN LEADS NO LESS THAN 135° OR PRIMARY LEAD NOT TO EXCEED 24" C.P.M. OR 21" R.C.P. WITH INCLUDED ANGLE LESS THAN 135°.
7. STORM DRAIN MANHOLE SHALL BE 48" INSIDE DIAMETER.
8. SPECIAL BEDDING RIPRAP, CLASS I (NO ROUND ROCK) REQUIRED FOR ALL MANHOLES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SPECIAL BEDDING IS NOT REQUIRED, USE 24" MINIMUM DEPTH OF 1" MINUS WASHED ROCK. EXISTING SOILS OR OTHER GRANULAR MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER AND COMPACTED TO 95% ASTM D-1557.



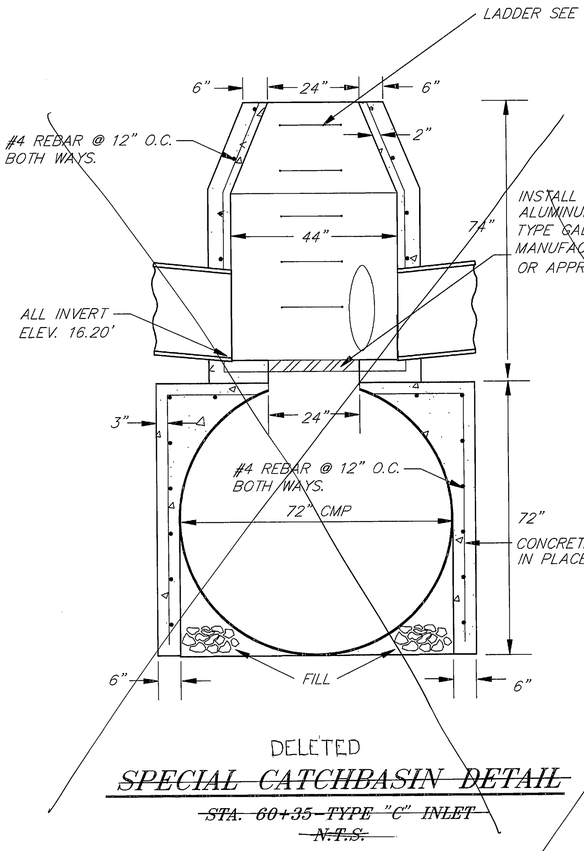
TYPE "B"
N.T.S.



SECTION A-A



CONCRETE ENCASEMENT DETAIL
N.T.S.

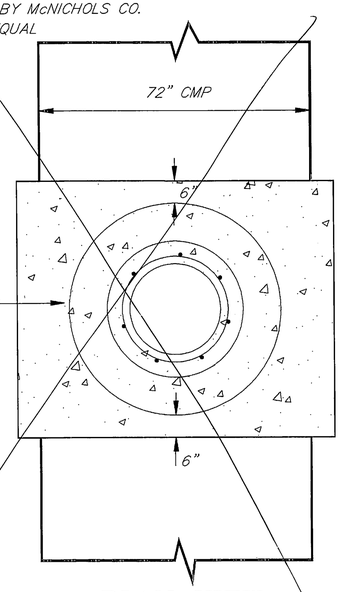


DELETED

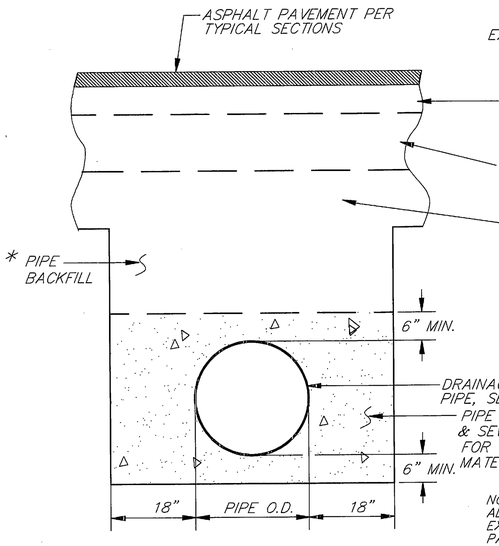
~~SPECIAL CATCHBASIN DETAIL~~

~~STA. 60+35 - TYPE "C" INLET~~

~~N.T.S.~~



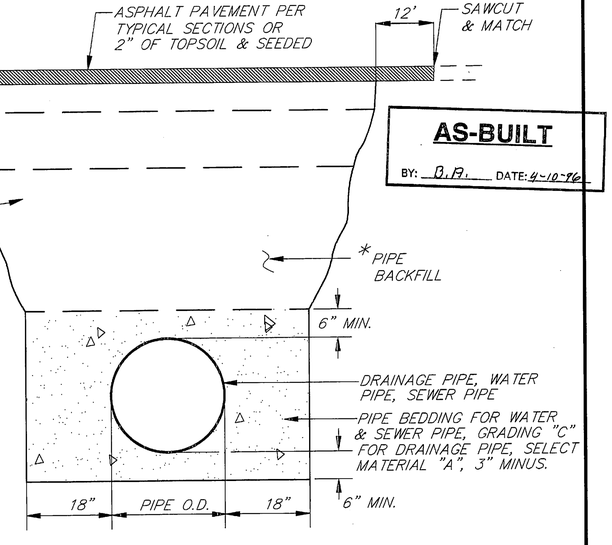
PLAN VIEW
N.T.S.



WHERE TRENCHING IS IN EXISTING PAVEMENT THEN PAVEMENT PATCH IS A MINIMUM OF 3 1/2", BASE COURSE GRADING D-1 IS A MINIMUM OF 6", AND SUBBASE IS A MINIMUM OF 14" GRADING "E"

*PIPE UNDER ROADWAY
N.T.S.

NOTE:
ALL TRENCHES CUT THROUGH EXISTING PAVEMENT SHALL BE PATCHED BY THE END OF THE FINAL SHIFT ON FRIDAY OF THE WEEK THE TRENCH WAS EXCAVATED. PAVEMENT PATHCHES SHALL CONSIST OF CONCRETE ASPHALT PAVEMENT, ATB OR OTHER ACCEPTABLE BITUMINOUS SURFACE TREATMENT. ALTERNATIVE PATCHING METHODS AND MATERIALS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.



PIPE UNDER PAVED PARKING OR UNPAVED AREAS
N.T.S.

AS-BUILT
BY: D.P. DATE: 4-10-96

* PIPE BACKFILL SHALL BE BORROW TYPE B OR USEABLE UNCLASSIFIED EXCAVATION THAT MEETS BORROW TYPE B.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Malcolm A. Menzies No. 1855-CE
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\94\PLANSET\$S-MHDET
R&M #921374/S-MHDET.DWG 1=20

BY:	DATE:	DESCRIPTION OF CHANGE:
N.R.M.	7/21	P.S. & E. REVIEW CHANGES
K.K.	3/17/99	AS BUILT WITH CORRECTIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MANHOLE DETAILS

DESIGNED BY: I.G.P.	PROJECT NO. 70606
DRAWN BY: AUTOCAD/I.G.P.	DATE: JULY, 1994
CHECKED BY: M.A.M.	SHEET 49F OF 106

FILE: O.S. 206-49F

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

SHEET SUMMARY

50	SHEET SUMMARY, SYMBOLS, AND GENERAL NOTES
50A	ELECTRICAL THREE LINE DIAGRAM
51	SYSTEM MAP AND LEGENDS
52	CONDUIT SYSTEM PLAN AND PROFILE
53	CONDUIT SYSTEM PLAN AND PROFILE
54	CONDUIT SYSTEM PLAN AND PROFILE
55	CONDUIT SYSTEM PLAN AND PROFILE
56	CONDUIT SYSTEM PLAN AND PROFILE
57	CONDUIT SYSTEM PLAN AND PROFILE
58	CONDUIT SYSTEM PLAN AND PROFILE
59	SIDE STREET INTERSECTION DETAILS
60	SIDE STREET INTERSECTION DETAILS
61	SIDE STREET INTERSECTION DETAILS
62	SIDE STREET INTERSECTION DETAILS
63	MANHOLE DETAILS AND SECTIONS
64	MANHOLE DETAILS AND SECTIONS
65	MANHOLE DETAILS AND SECTIONS
66	CONDUIT SCHEDULE
67	CONDUIT SCHEDULE
68	CONDUIT SCHEDULE
69	DUCT BANK SECTIONS
70	DUCT BANK SECTIONS
71	DUCT BANK SECTIONS
72	DUCT BANK SECTIONS
73	DUCT BANK SECTIONS
74	DUCT BANK SECTIONS
75	DUCT BANK SECTIONS
76	DUCT BANK SECTIONS
77	ELECTRICAL MANHOLE DETAILS
78	ELECTRICAL MANHOLE DETAILS
79	ELECTRICAL PULL BOX SCHEDULE
80	ELECTRICAL PULL BOX DETAILS
81	ELECTRICAL SWITCH DETAILS
82	PAD MOUNTED ELECTRICAL TRANSFORMER DETAILS
83	UNDERGROUND ELECTRICAL SERVICE LIST & DETAILS
84	UNDERGROUND ELECTRICAL SERVICE LIST & DETAILS
85	ELECTRICAL OVERHEAD SYSTEM MODIFICATIONS & DETAILS
86	STREET LIGHT DETAILS
87	OVERHEAD STRUCTURE DETAIL DRAWINGS
88	OVERHEAD STRUCTURE DETAIL DRAWINGS
89	OVERHEAD STRUCTURE DETAIL DRAWINGS
90	OVERHEAD STRUCTURE DETAIL DRAWINGS
91	OVERHEAD STRUCTURE DETAIL DRAWINGS
92	OVERHEAD STRUCTURE DETAIL DRAWINGS
93	OVERHEAD STRUCTURE DETAIL DRAWINGS
94	ELECTRICAL OVERHEAD REMOVAL SCHEDULE
95	ELECTRICAL OVERHEAD REMOVAL SCHEDULE
96	ELECTRICAL CABLE SCHEDULE
97	TELEPHONE MANHOLE DETAILS
98	TELEPHONE PEDESTAL SCHEDULE
99	TELEVISION & CATV OVERHEAD MODIFICATIONS & DETAILS
100	CATV PEDESTAL LIST AND INSTALLATION DETAIL
101	MISCELLANEOUS DETAILS
102	TRAFFIC SIGNAL
103	TRAFFIC SIGNAL
104	TRAFFIC SIGNAL SCHEDULES
105	TRAFFIC SIGNAL DETAILS
106	ELECTRICAL DUCT BANK SWEEP SUMMARY
106A	CROSSWALK LIGHTING DETAILS

LEGENDS & SYMBOLS

- POLE REMOVAL
- EXISTING POWER POLE
- NEW POWER POLE
- ELECTRICAL MANHOLE
- TELEPHONE MANHOLE
- ELECTRICAL PULL BOX
- CATV PULL BOX
- CATV PEDESTAL
- TELEPHONE PEDESTAL
- PADMOUNTED ELECTRICAL TRANSFORMER
- PADMOUNTED ELECTRICAL SWITCH
- ELECTRICAL FUSED CUTOUT
- STREET LIGHT POLE, LUMINAIRE AND JUNCTION BOX
- UNDERGROUND ELECTRICAL SERVICE
- UNDERGROUND TELEPHONE SERVICE
- UNDERGROUND CATV SERVICE
- OVERHEAD ELECTRICAL SERVICE
- OVERHEAD ELECTRICAL TRANSFORMER
- EXISTING GUY AND ANCHOR
- NEW GUY AND ANCHOR
- ELECTRICAL DUCT BANK
- TELEPHONE/CATV DUCT BANK
- DISCONNECT SWITCH
- OVERHEAD LINE – 3 PHASE
- OVERHEAD LINE – 1 PHASE
- UNDERGROUND LINE – 3 PHASE
- UNDERGROUND LINE – 1 PHASE
- SEPARABLE CONNECTOR
- SURGE ARRESTOR
- METER
- EXISTING METER TO BE RELOCATED
- STORM DRAIN INLET BOX

GENERAL NOTES

1. THE CONTRACTOR SHALL EXAMINE THE ELECTRICAL/TELEPHONE/CATV DRAWINGS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS HE MAY FIND BEFORE PROCEEDING WITH THE WORK.

2. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES INCLUDING SEWER PIPES, WATER PIPES, CULVERTS, CATCH BASINS AND STORM DRAINS PRIOR TO CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES IS SHOWN ON THE PLAN DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO REASONABLY PROTECT AND REPAIR ALL EXISTING UNDERGROUND FACILITIES WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.

3. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE NATIONAL ELECTRICAL CODE (NEC) WHERE APPLICABLE.

4. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES, TYPICAL DETAILS, AND SPECIFICATIONS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS.

5. THE METHOD OF MEASUREMENT AND PAYMENT FOR ELECTRICAL, TELEPHONE AND CATV ITEMS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.

6. SCHEDULE 80 CONDUIT SHALL BE USED FOR ELECTRICAL CONDUIT SYSTEM. ALL DUCTS SHALL BE SLOPED TOWARD MANHOLES/PULLBOXES TO PREVENT ACCUMULATION OF WATER.

7. ALL ELECTRICAL TELEPHONE AND CATV SERVICES SHALL BE IN CONDUIT, EVEN THOUGH DUCT DETAILS ARE NOT PROVIDED. UNLESS NOTED OTHERWISE, THE FOLLOWING SERVICE CONDUITS SHALL BE USED:

— E — E —	2" SCHD 80 PVC OR AS PROVIDED ON SHEETS 83 & 84 SERVICE LIST
— T — T —	2" SCHD 40 PVC–RESIDENCES 4" SCHD 40 PVC–BUSINESSES
— C — C —	2" SCHD 40 PVC

8. ALTHOUGH NOT SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL INSTALL SUPPLEMENTAL 2" CONDUIT AND JUNCTION BOXES FOR FUTURE TRAFFIC SIGNAL SYSTEM BETWEEN ERLER (STA. 24+00) AND KATLIAN (STA. 52+00) STREETS. TRAFFIC SIGNAL CONDUIT SHALL BE ROUTED WITH STREET LIGHT CONDUIT WITH A NOMINAL 5" SPACING. CONDUIT SHALL BE 2" SCHEDULE 40 PVC EXCEPT UNDER INTERSECTIONS WHERE 2" RIGID GALVANIZED STEEL CONDUIT SHALL BE INSTALLED. JUNCTION BOXES SHALL BE INSTALLED AT APPROXIMATELY 400 FOOT INTERVALS BEHIND THE SIDEWALK IF SPACE EXISTS ON THE RIGHT–OF–WAY. JUNCTION BOXES SHALL BE QUAZITE OR APPROVED EQUAL STANDARD TYPE 1 J–BOX PER T34.00 WITH TOP COVER MARKED "TRAFFIC." CONDUIT SHALL TERMINATE AT CLOSEST EXISTING TRAFFIC JUNCTION BOX FOR SIGNALS AT ERLER AND KATLIAN STREETS. PAYMENT WILL BE SUBSIDIARY TO ITEM 660 (1): TRAFFIC SIGNAL SYSTEM. GENERAL LOCATION IS SHOWN ON SHEET 51.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SHT 50

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
ELECTRICAL/TELEPHONE/CATV
NH 099–3(3) 70606
LEGENDS AND SYMBOLS
GENERAL NOTES AND ABBREVIATIONS

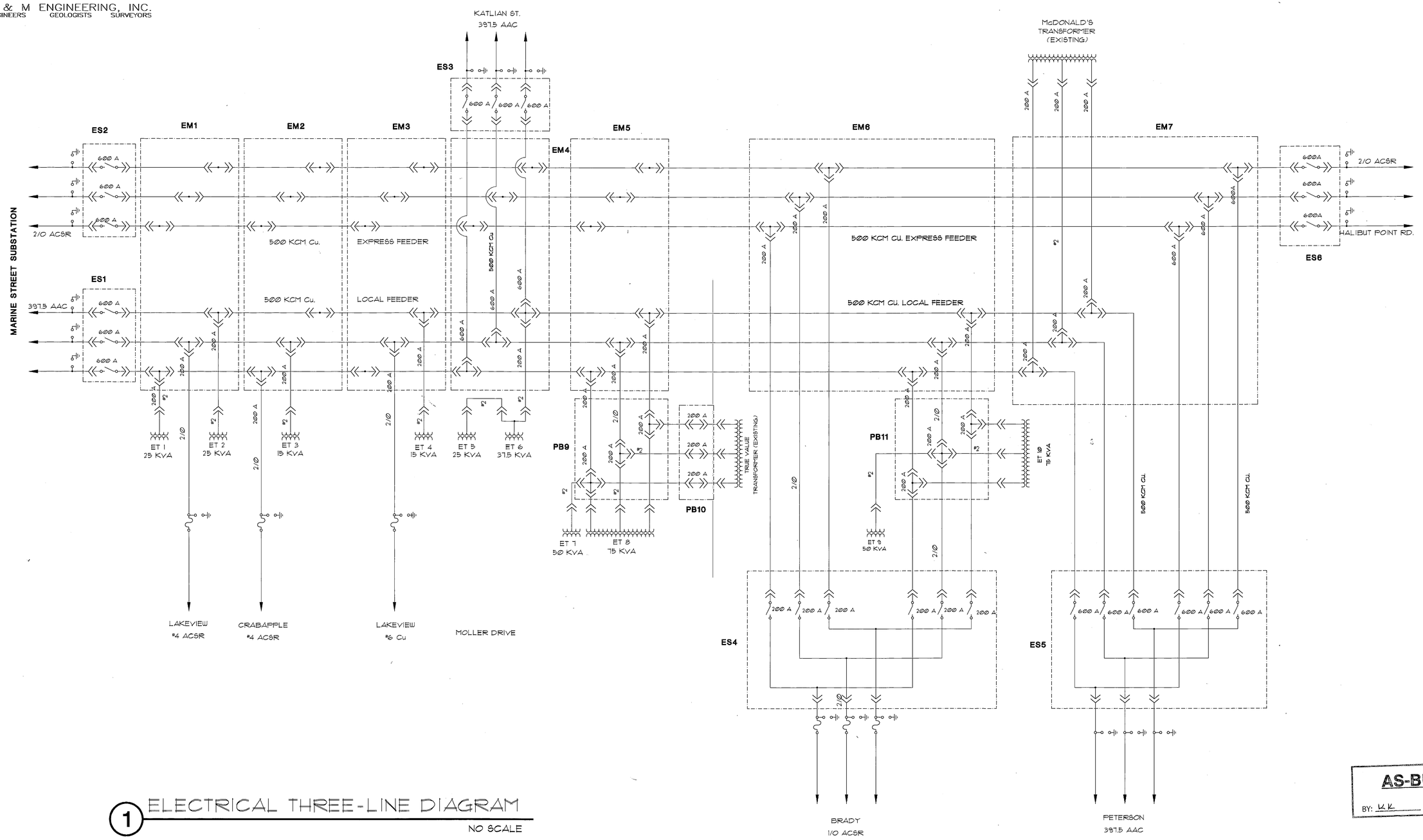
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789–2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886–203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	50 OF

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993



1 ELECTRICAL THREE-LINE DIAGRAM

NO SCALE

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: ALL MANHOLE CONNECTORS ARE 600A UNLESS OTHERWISE NOTED.
ALL NEW CONDUCTORS ARE COPPER.

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\94\PLANSET\SHT 50A

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/09/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
ELECTRICAL/TELEPHONE/CATV
NH 099 — 3(3) 70606
ELECTRICAL THREE—LINE DIAGRAM

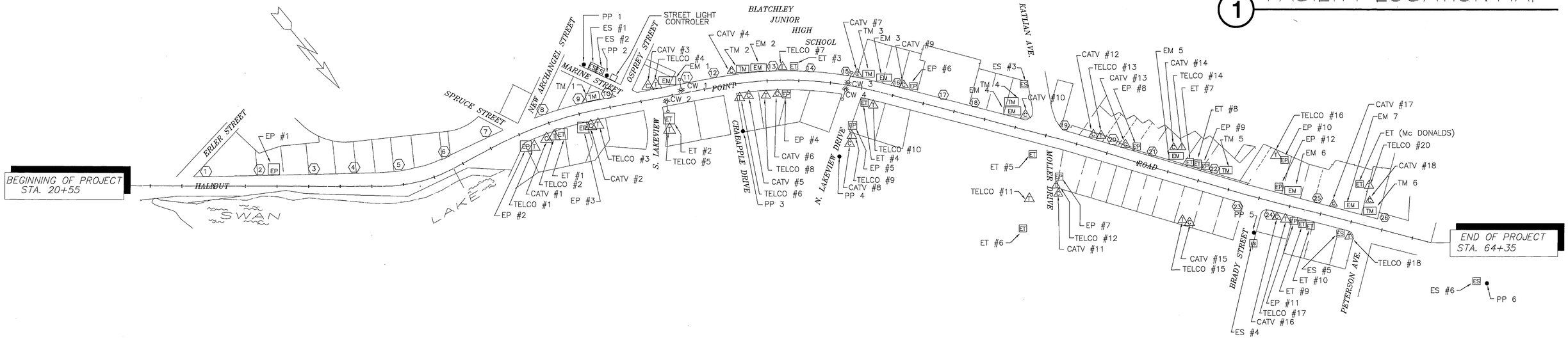
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	50A OF

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

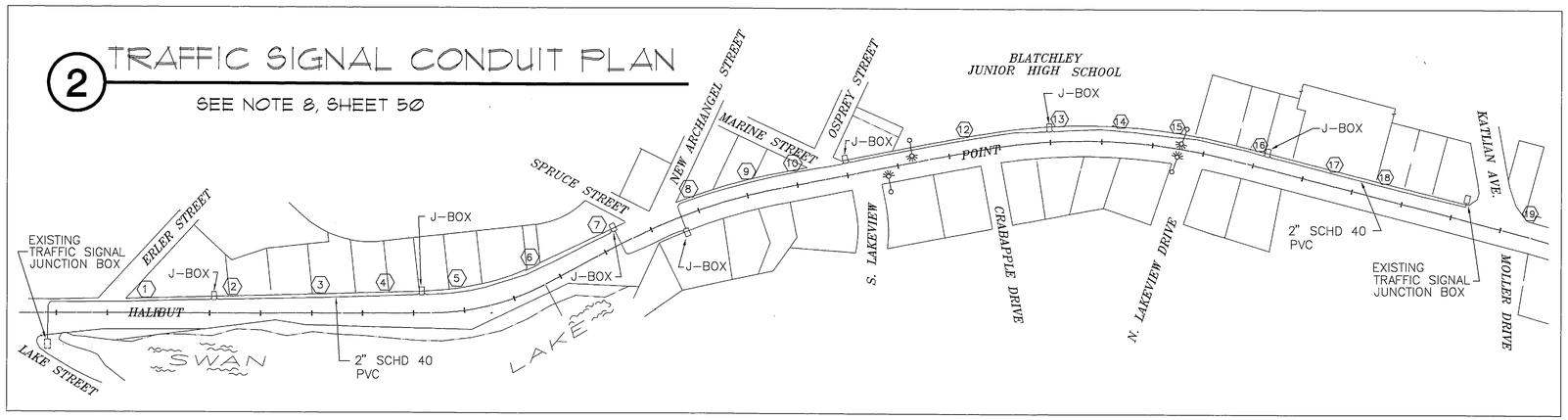
PROJECT DESIGNATION	YEAR
70606	1993

1 FACILITY LOCATION MAP



2 TRAFFIC SIGNAL CONDUIT PLAN

SEE NOTE 8, SHEET 50



AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\$SHT51

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	07/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
NH 099—3(3) 70606
FACILITY LOCATION MAP

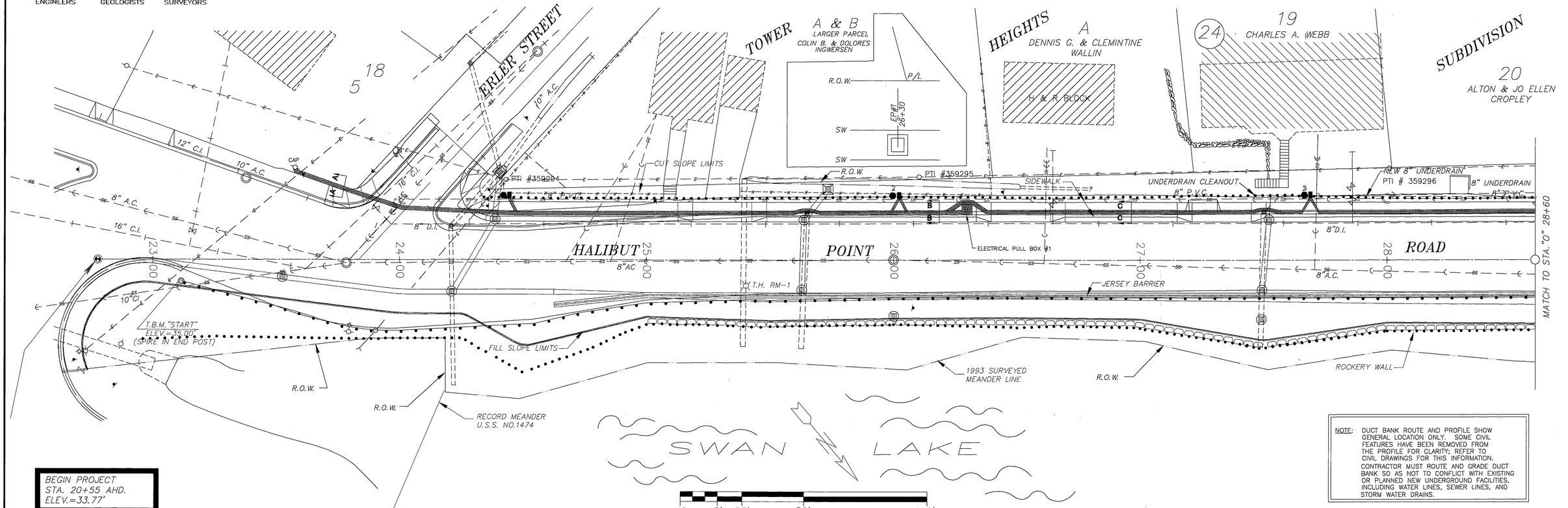
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	51

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE-5604

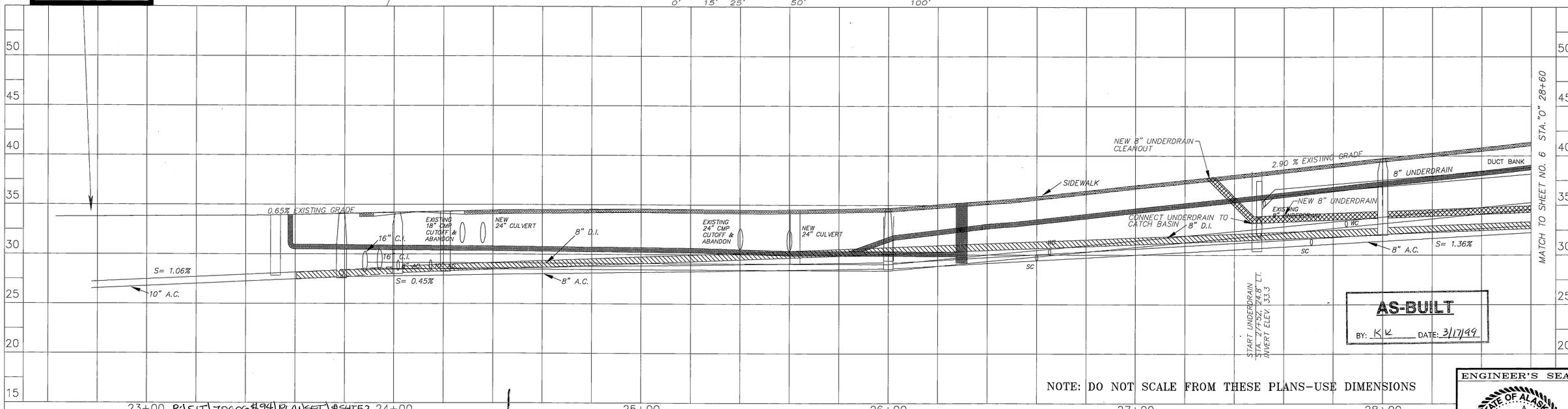
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



BEGIN PROJECT
STA. 20+55 AHD.
ELEV.=33.77'

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. SOME CIVIL FEATURES HAVE BEEN REMOVED FROM THE PROFILE FOR CLARITY; REFER TO CIVIL DRAWINGS FOR THIS INFORMATION. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.



AS-BUILT
BY: K.K. DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606\94\PLANSET\SHT52

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
B.O.P. TO STA. 28+60

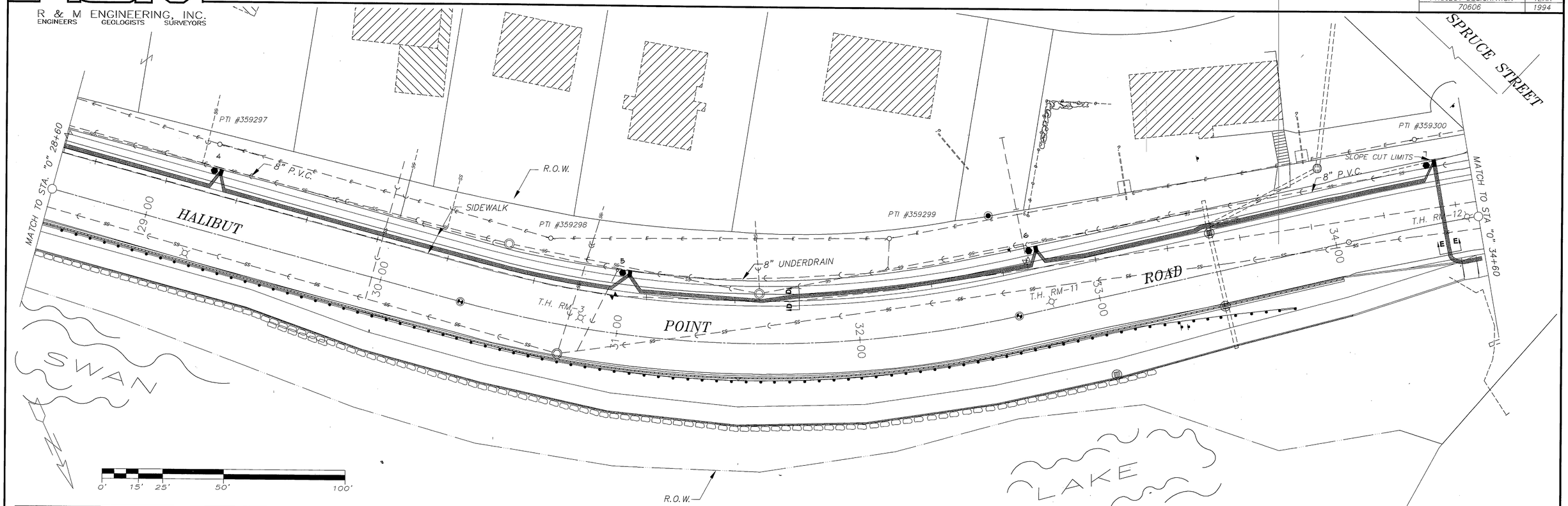
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

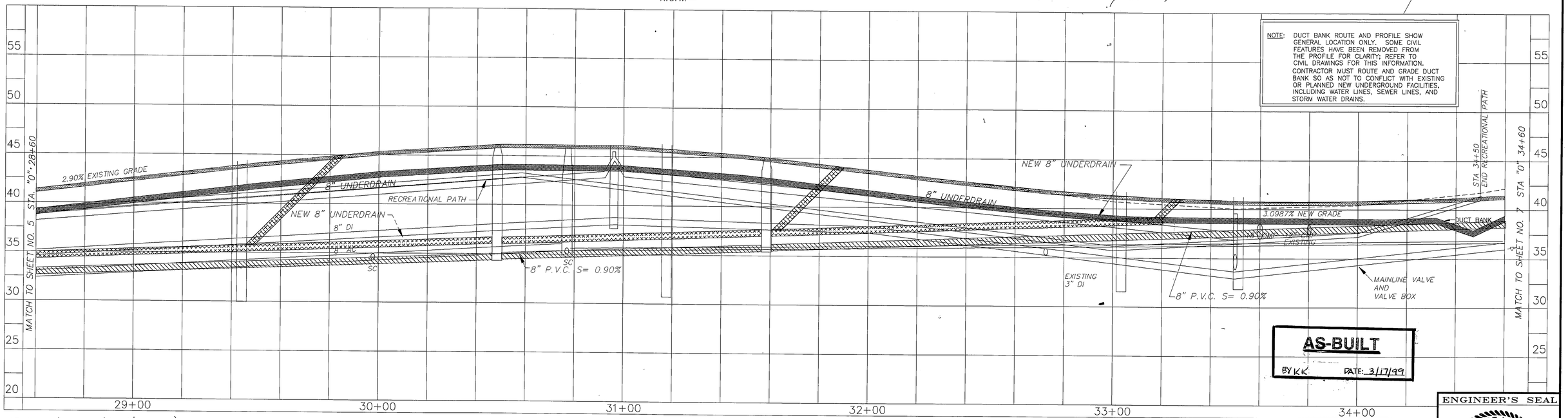
DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	52

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994





AS-BUILT
BY KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SHT53

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
STA. 28+60 TO STA. 34+60

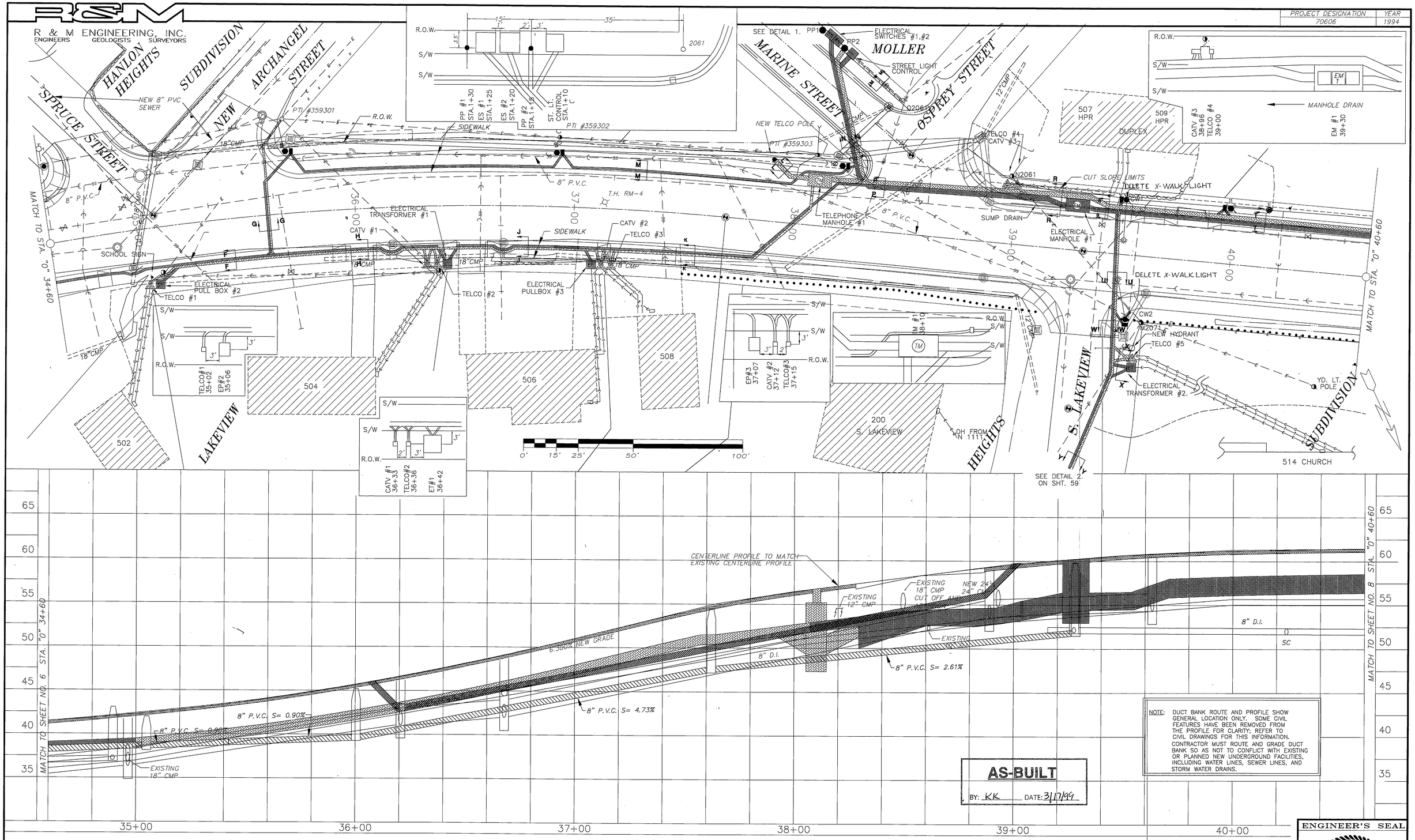
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	53

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. SOME CIVIL FEATURES HAVE BEEN REMOVED FROM THE PROFILE FOR CLARITY; REFER TO CIVIL DRAWINGS FOR THIS INFORMATION. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

P:\SIT\70606#94\PLANSET\#SHT54

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
STA. 34+60 TO STA. 40+60

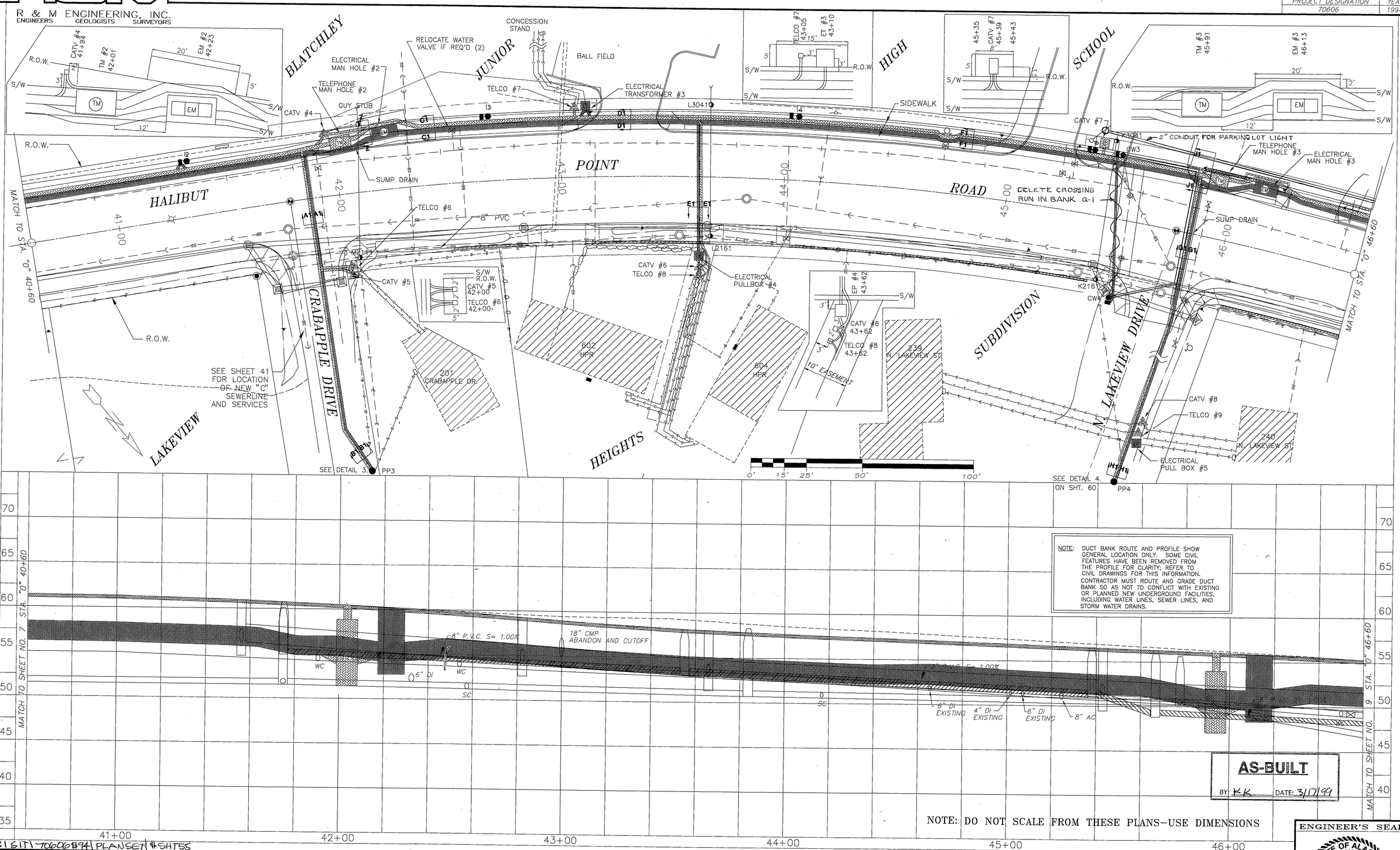
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	54

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. SOME CIVIL FEATURES HAVE BEEN REMOVED FROM THE PROFILE FOR CLARITY; REFER TO CIVIL DRAWINGS FOR THIS INFORMATION. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

P:\SIT\70606#94\PLANSET\#SHT55

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
STA. 40+60 TO STA. 46+60

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886–203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	55

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

DAN

ROCK RACK

ELECTRICAL PULL BOX #6

CATV #9

ADDED TEL PEDESTAL FED FROM TELCO #10

J3014

MOLLER

SUBDIVISION

SEE DETAIL 6.

ELECTRICAL SWITCH #3

J3081

KATLIAN AVE.

TELEPHONE MAN HOLE #4

CATV #10

R.O.W.

ELECTRICAL MAN HOLE #4

RELOCATE WATER VALVE IF REQ'D

CAPPED CONDUITS ARE 70' FROM EM-4 AND 8' BEHIND SIDEWALK. CAP CONDUITS

SIDEWALK

J3041

SCHOOL SIGN

MATCH TO STA. "0" 46+60

HALIBUT POINT ROAD

USE STEEL CONDUIT IN VICINITY OF TRAFFIC CONTROL LOOPS

MATCH TO STA. "0" 52+60

8" P.V.C.

8" P.V.C.

K2131

J2161

I2161

I2131 EXISTING TRAFFIC COUNTER

H2151

HOSPITAL SIGN

ELECTRICAL TRANSFORMER #5

NEW TRAFFIC COUNTER LOCATION

MOLLER ST

SEE SHEET 42 FOR LOCATION OF NEW "M" WATER LINE HYDRANTS AND SERVICES

TRAFFIC SIGNAL METER

HOSPITAL SIGN METER

ELECTRICAL TRANSFORMER #4

TELCO #10

LAKEVIEW HEIGHTS SUBDIVISION

612 UPR

MOLLER

PARK

CATV #11

TELCO #12

J2031

J2032

SEE SHT. #56

CONCESSION STAND

SEE DETAIL 5. ON SHT. #61

TELCO #11

ELECTRICAL PULL BOX #7

H2031

ELECTRICAL TRANSFORMER #6.

0' 15' 25' 50' 100'

46+79 EP #6 46+81 CATV #9 46+86 46+91
12' 5' 2' S/W R.O.W. S/W

R.O.W. TM #4 51+06 EM #4 CATV #10 51+19 8' TM EM S/W S/W

R.O.W. S/W S/W 3' 2' 5' 12' 46+74 ET #4 46+80 TELCO #10 46+85 46+86

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. SOME CIVIL FEATURES HAVE BEEN REMOVED FROM THE PROFILE FOR CLARITY; REFER TO CIVIL DRAWINGS FOR THIS INFORMATION. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.

MATCH TO SHEET NO. 8 STA. "0" 46+60

8" C.I.

8" A.C. S= 4.23%

NEW 24" CMP

WC SC

S= 1.04% 8" A.C.

8" C.I.

8" P.V.C. S= 3.42"

WC SC

8" A.C. S= 1.04%

8" PVC S= 2.61%

8" A.C. S= 3.03%

EXISTING 6" CI

EXISTING 12" CI

MATCH TO SHEET NO. 10 STA. "0" 52+60

60 55 50 45 40 35 30 25

47+00 48+00 49+00 50+00 51+00 52+00

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SHT56

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILTS WITH CORRECTIONS
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
STA. 46+60 TO STA. 52+60

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	56

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R&M ENGINEERS

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

U.S. SURVEY NO. 6 1/2

U.S. SURVEY NO. 225

EXISTING EASEMENT PER A.D.O.T. PROJ.# 67525

R.O.W.

MATCH TO STA. "0" 52+60

MATCH TO STA. "0" 58+60

HALIBUT POINT ROAD

WHITCOMB PARK SERVICE

DEWEY'S FRANKS APARTMENTS

PACIFIC CENTER SUBDIVISION

HARDWARE STORE

MOORE CLINIC

MEMORIAL

MOORE

201 MOLLER DR.

203 MOLLER DR.

SEE SHEET #55

CATV #12

TELCO #13

CATV #13

TELCO #14

CATV #14

TELCO #16

CATV #15

TELCO #15

ELECTRICAL PULL BOX #8

ELECTRICAL MANHOLE #5

ELECTRICAL PULL BOX #9

TELEPHONE MAN HOLE #5

ELECTRICAL PULL BOX #10

ELECTRICAL TRANSFORMERS #7(1Ø),#8(3Ø)

RELOCATE 6" WATERLINE, IF REQ'D

8" PVC

G2111 CAP UNUSED CONDUITS

G2091 CAP UNUSED CONDUITS

F2141

F2131

E2101

EP 10 58+43

10' SEWER UTILITY EASEMENT

20' ACCESS & UTILITY EASEMENT

12' SEWER & UTILITY EASEMENT

EXISTING 24" CMP

EXISTING 18" A.C.

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. SOME CIVIL FEATURES HAVE BEEN REMOVED FROM THE PROFILE FOR CLARITY; REFER TO CIVIL DRAWINGS FOR THIS INFORMATION. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

53+00 54+00 55+00 56+00 57+00 58+00

P:\SIT\70606\$94\PLANSET\$SHT57

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
STA. 52+60 TO STA. 58+60

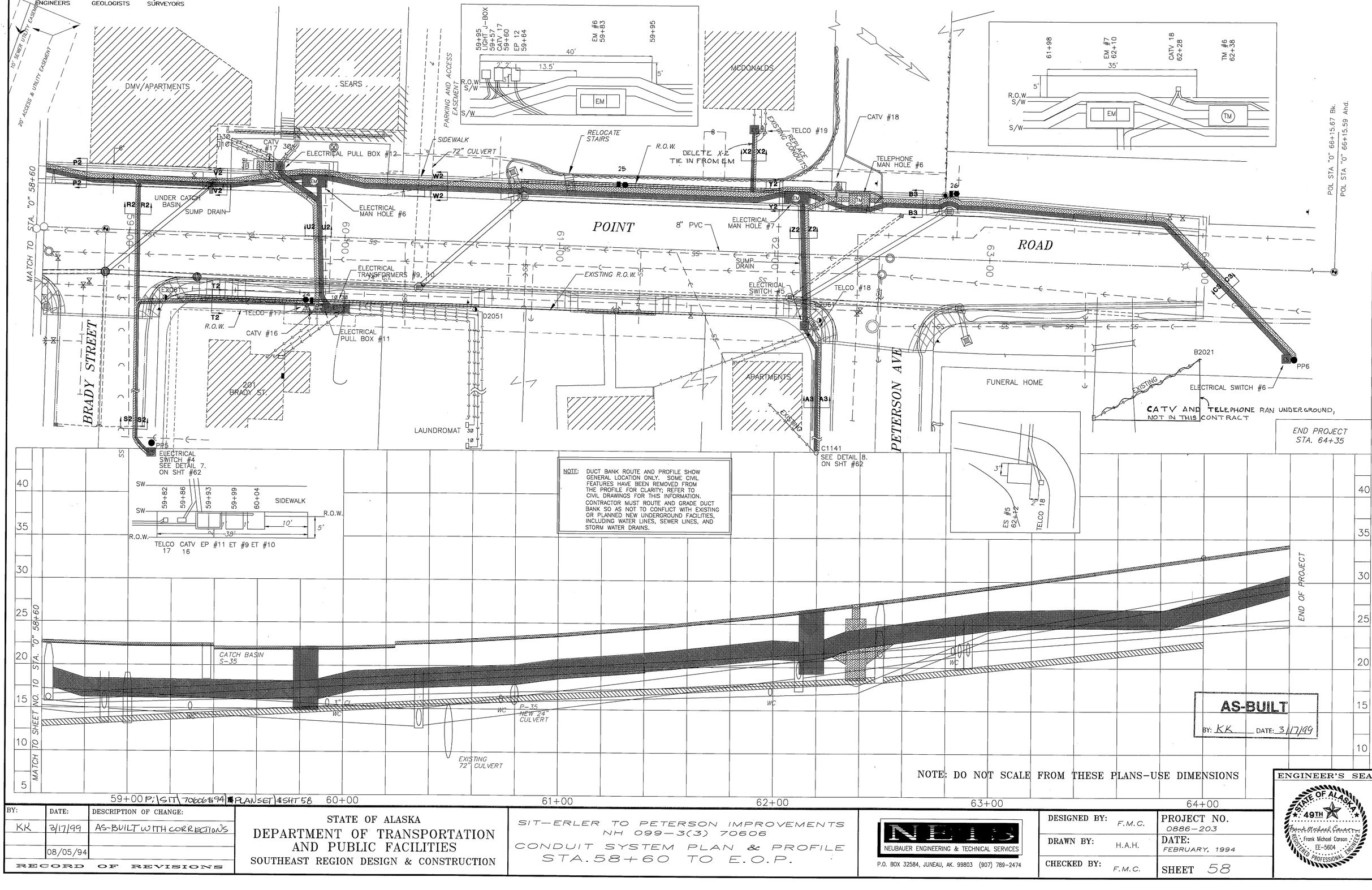
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	57

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT WITH CORRECTIONS
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
CONDUIT SYSTEM PLAN & PROFILE
STA. 58+60 TO E.O.P.

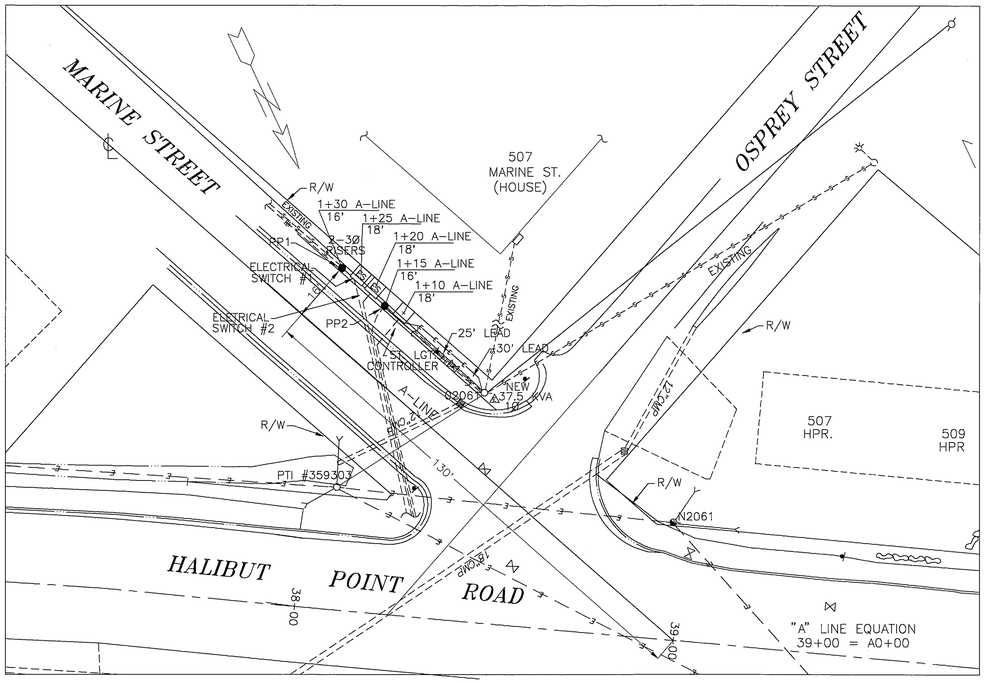
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886–203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	58

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

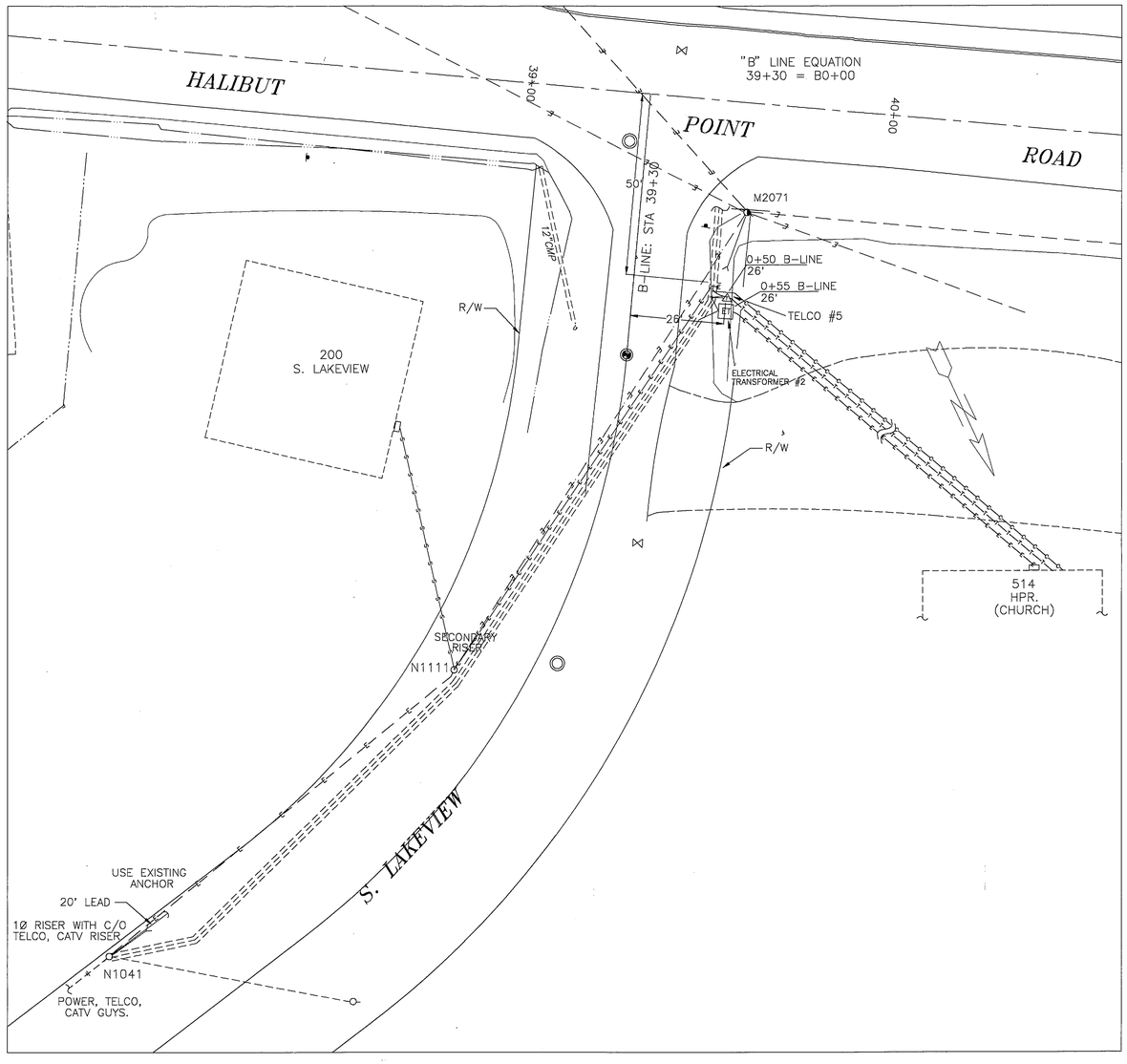
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



1 MARINE - OSPREY STREET DETAIL

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.



2 S. LAKEVIEW STREET DETAIL

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606$94\PLANSET\$SHT59

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILTS ~~WITH CORRECTIONS~~
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

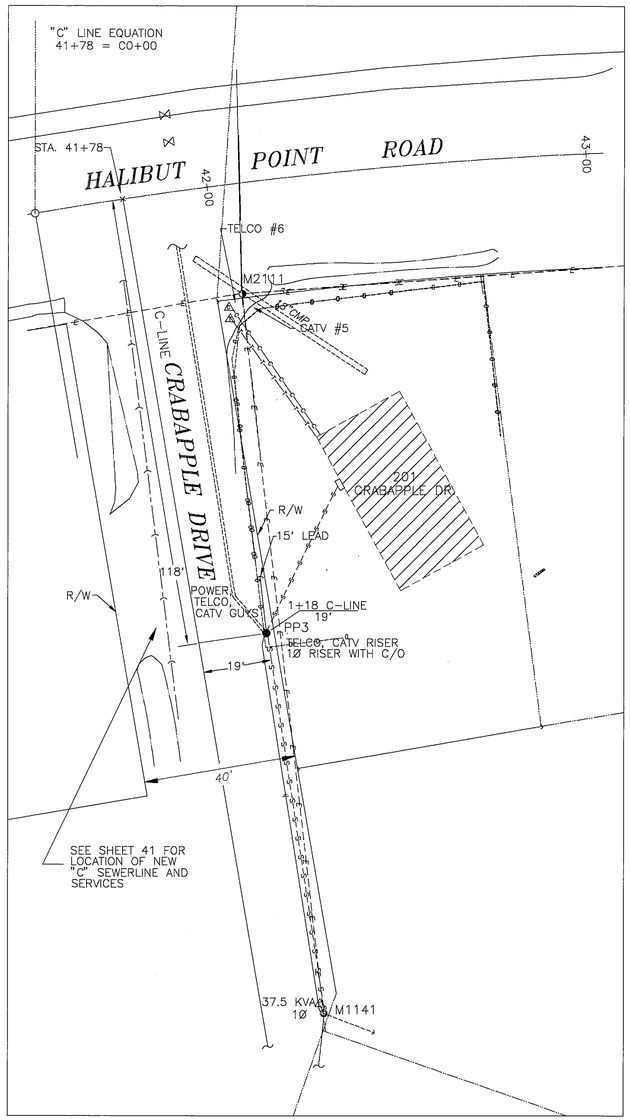
SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL/TELEPHONE/CATV
SIDE STREET INTERSECTION DETAILS

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

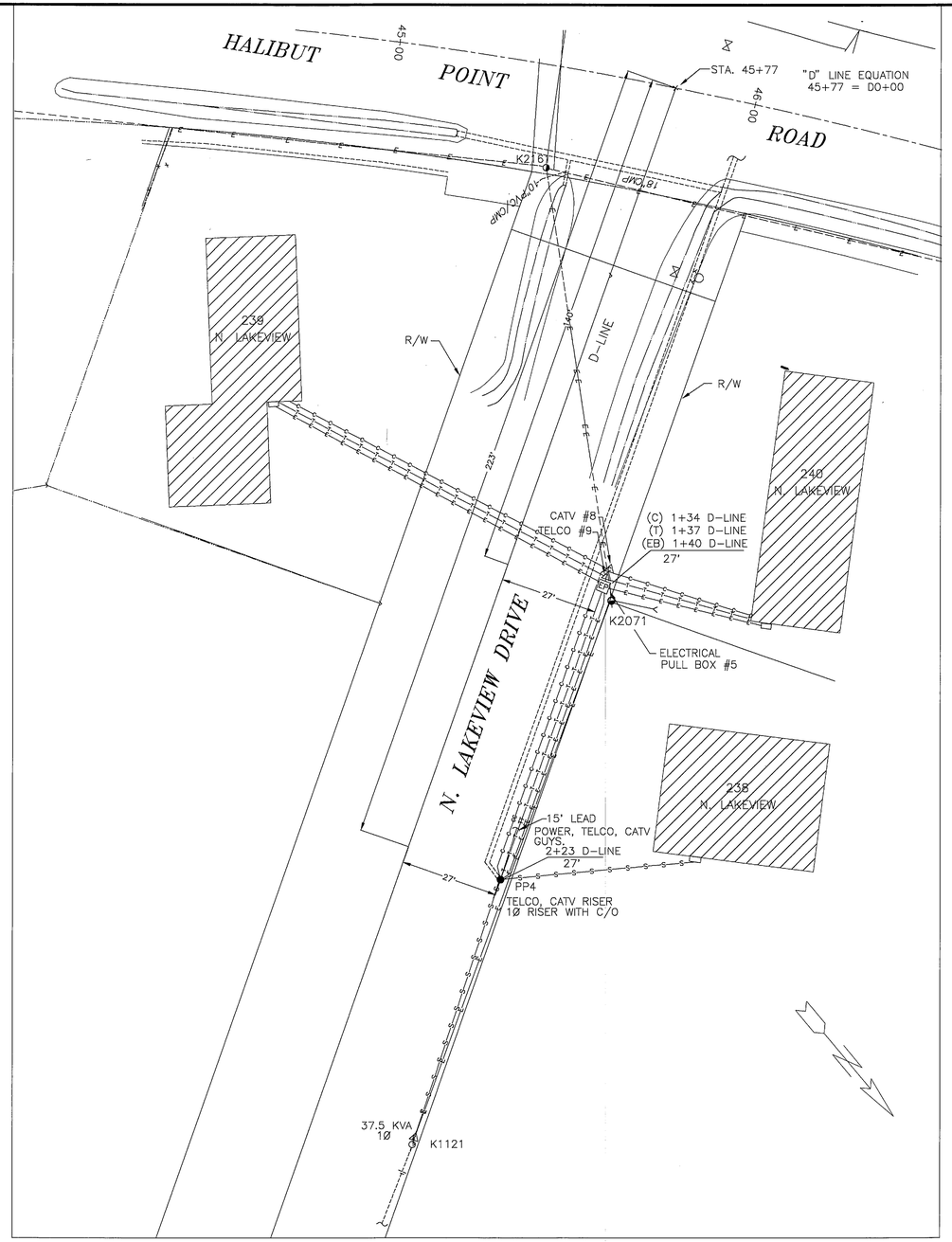
DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	59

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994



3 CRABAPPLE STREET DETAIL



4 N. LAKEVIEW STREET DETAIL

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.

AS-BUILT
BY: KK DATE: 3/17/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE-5604

P:\SIT\70606\97\PLANSET\SHT60

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUICT ~~WITH~~
	6/20/94	
	7/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL/TELEPHONE/CATV
SIDE STREET INTERSECTION DETAILS

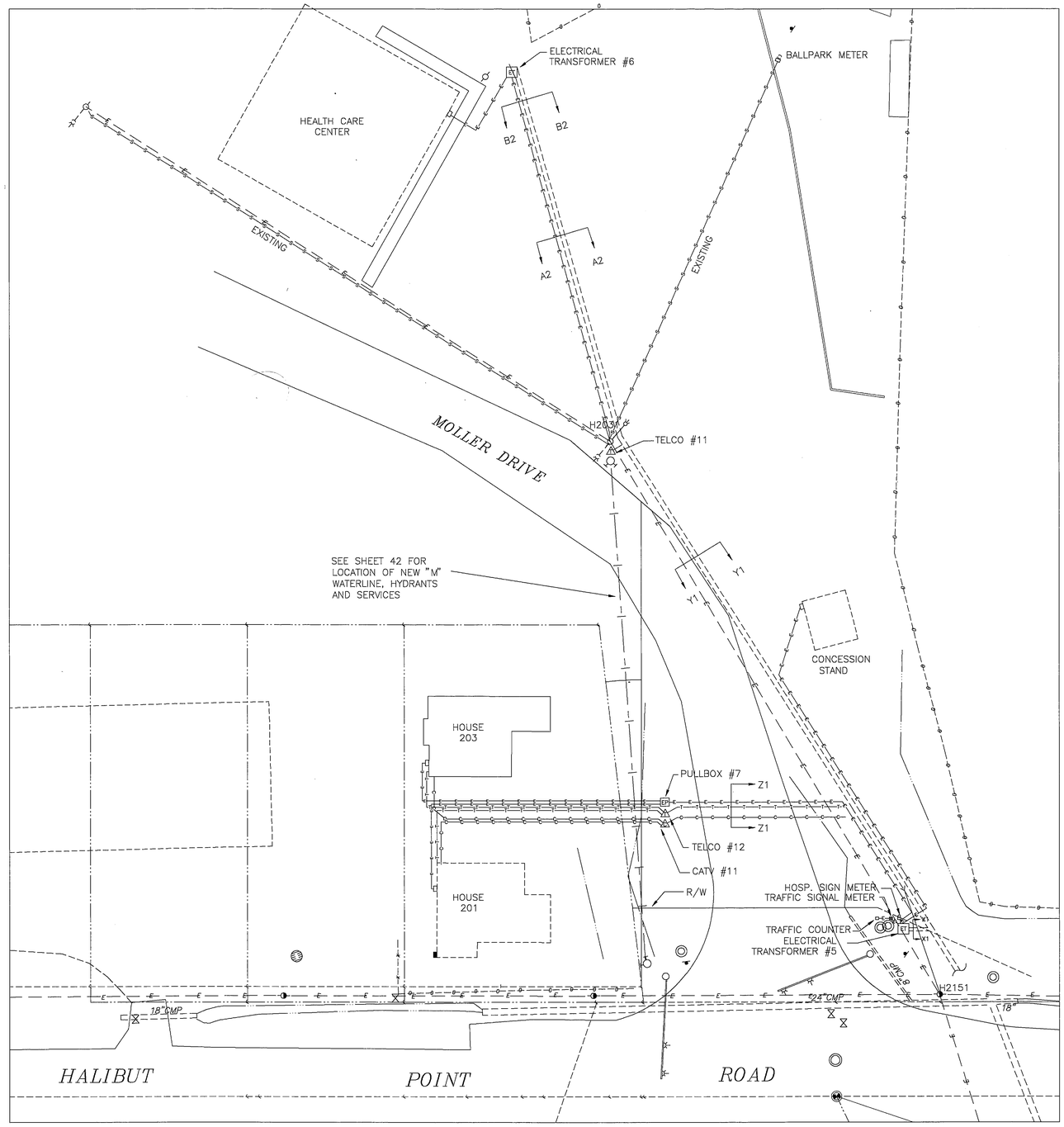
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	60

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.



5 MOLLER DRIVE DETAIL

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\#SHT61

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL/TELEPHONE/CATV
SIDE STREET INTERSECTION DETAILS

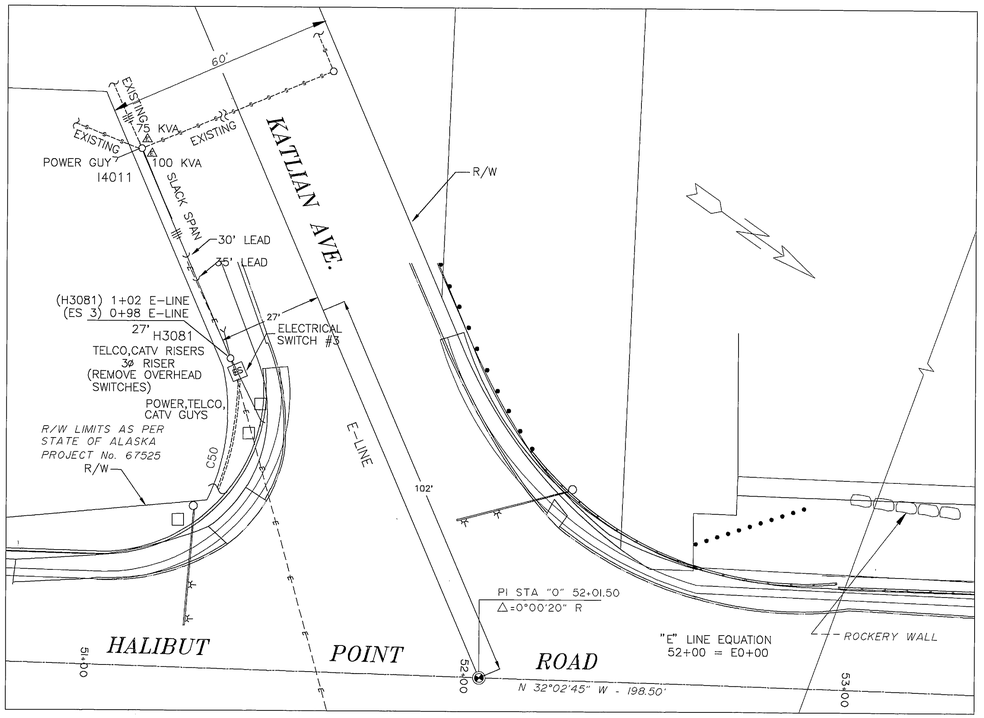
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	61

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

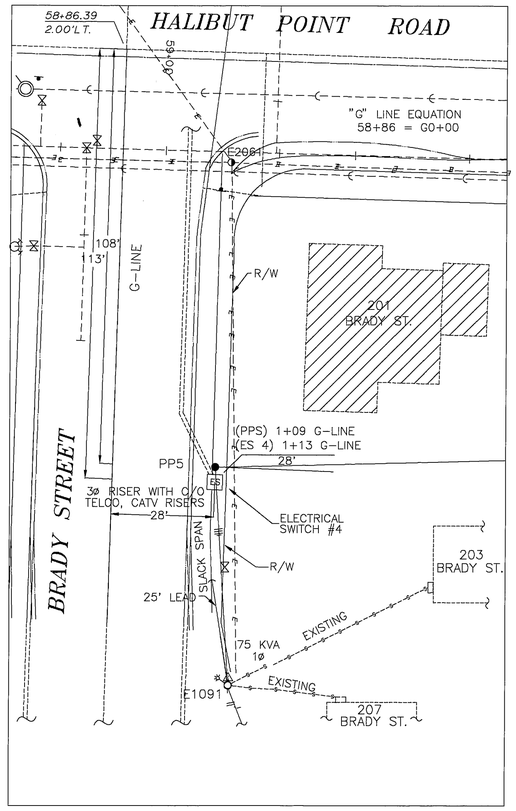
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1994

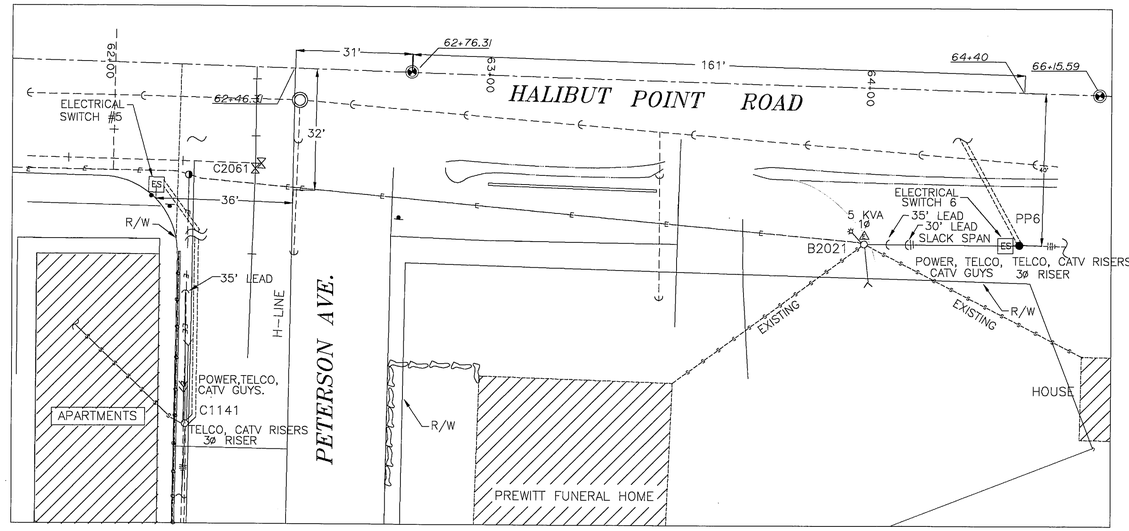


6 KATLIAN STREET DETAIL

NOTE: DUCT BANK ROUTE AND PROFILE SHOW GENERAL LOCATION ONLY. CONTRACTOR MUST ROUTE AND GRADE DUCT BANK SO AS NOT TO CONFLICT WITH EXISTING OR PLANNED NEW UNDERGROUND FACILITIES, INCLUDING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.



7 BRADY STREET DETAIL



8 PETERSON STREET DETAIL

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606$94\PLANSET\$SHT62

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL/TELEPHONE/CATV
SIDE STREET INTERSECTION DETAILS

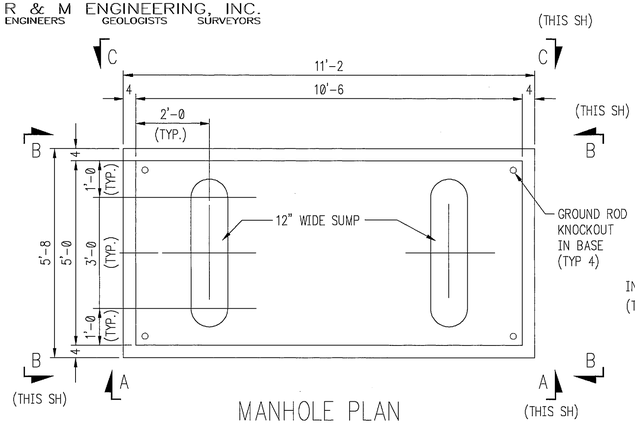
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	62

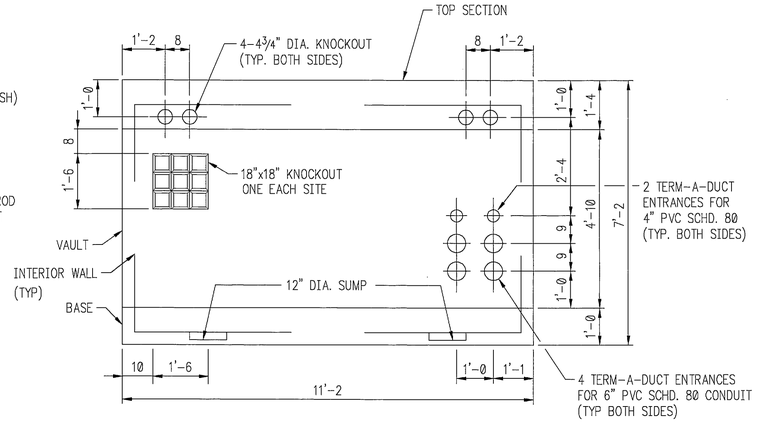
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

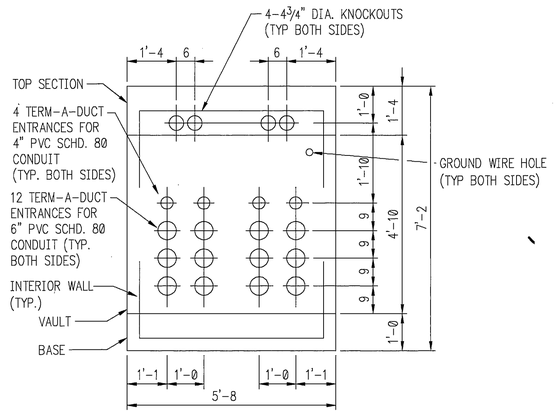
PROJECT DESIGNATION	YEAR
70606	1993



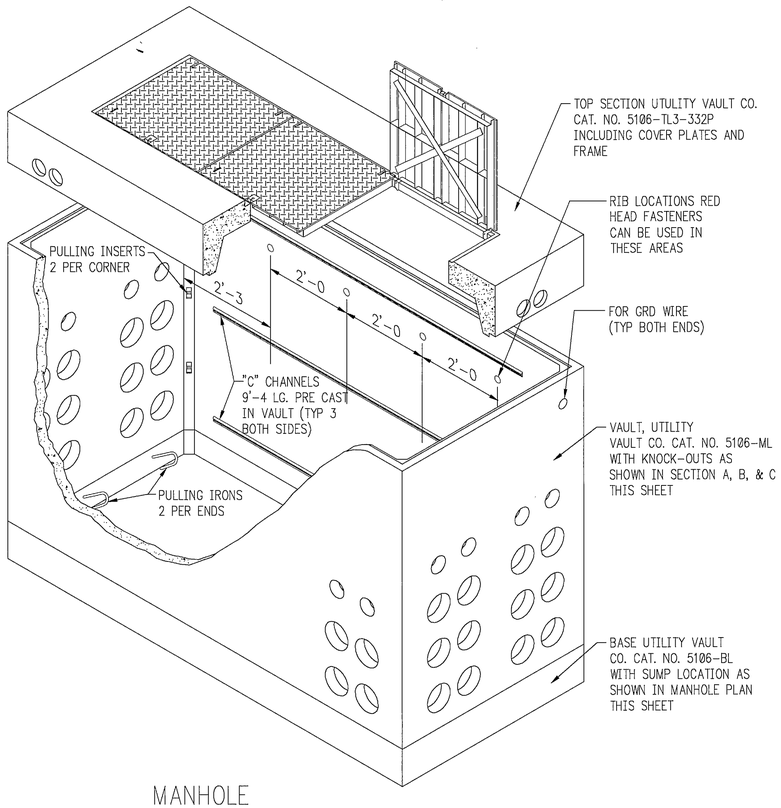
MANHOLE PLAN



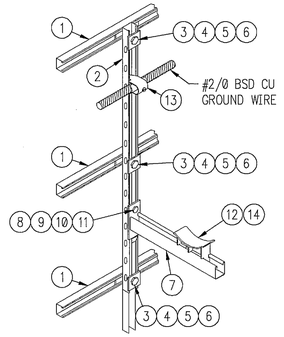
SECTION A
(SECTION C MIRROR IMAGE)



SECTION B



MANHOLE
ISOMETRIC VIEW
N.T.S.



MANHOLE
CABLE RACKING HARDWARE
N.T.S.

NO.	SUPPLIER	CAT. NO.	QTY. PER MANHOLE	DESCRIPTION
1	UTILITY VAULT CO.	P-4000	6	"C" CHANNELS EMBEDDED IN VAULT 3 PER SIDE 9'-4" LONG (EA.)
2	UNISTRUT	P-1000	4 EA. 5'-0 LG.	1⅝"x1⅝" CHANNEL
3	UNISTRUT	P-4010	12 EA.	½" CHANNEL NUT W/ SPRING
4	UNISTRUT	HHCSO50225EG	12 EA.	½"x2¼" HEX HEAD CAP SCREW
5	UNISTRUT	P-1064	12 EA.	FLAT PLATE FOR ½" BOLT
6	UNISTRUT	HLKW050EG	12 EA.	½" LOCKWASHER
7	UNISTRUT	P-2516	8 EA.	BRACKET FOR CABLE 24" LONG
8	UNISTRUT	HHCS050094EG	8 EA.	½"x15/16" HEX HEAD CAP SCREW
9	UNISTRUT	HLKW050EG	8 EA.	½" LOCK WASHER
10	UNISTRUT	P-1010	8 EA.	½" NUT W/SPRING
11	UNISTRUT	HFLW050EG	8 EA.	½" FLAT WASHER
12	UNISTRUT	P1753FG	AS REQ'D	CABLE SADDLE
13	UNISTRUT	M-5028	AS REQ'D	GROUND WIRE CLAMP
14			AS REQ'D	PLASTIC TIE WRAPS

NOTES

1. THIS STANDARDIZED VAULT DESIGN SHALL BE USED ON ALL ELECTRICAL VAULTS (ELECTRICAL MANHOLES #1-7). THE VAULT TO BE AS FOLLOWS:
   A. VAULT TO BE BY UTILITY VAULT CO. TYPE 5106.
   B. TOP SECTION TO BE UTILITY VAULT CO. CAT. NO. 5106-TL3-332 WITH 3-332P GALVANIZED STEEL DOORS WITH LOCKING LATCH WITH 3/8" PENTAHEAD BOLT & FRAME. (SEE NOTE 2). DOORS SHALL BE SANDBLASTED WITH A NON-SKID SURFACE.
   C. VAULT TO BE UTILITY VAULT CO. CAT. NO. 5106-ML WITH KNOCK-OUTS AS SHOWN IN SECTION A, B, & C THIS SHEET. (THIS SHEET TO BE SUBMITTED TO UTILITY VAULT CO. WHEN PURCHASING THE VAULTS).
   D. BASE TO BE UTILITY VAULT CO. CAT. NO. 5106-BL WITH SUMP LOCATIONS & GROUND ROD KNOCKOUTS AS SHOWN ON MANHOLE PLAN THIS SHEET.
2. BRASS MARKING PLATES TO BE CAST INTO THE VAULT LID BY UTILITY VAULT CO. CONTRACTOR TO USE STEEL PUNCH SETS TO IMPRINT THE VAULT NUMBERS.
3. EACH VAULT SHALL INCLUDE PULLING IRONS EMBEDDED IN THE BASE BY UTILITY VAULT CO. THE IRONS TO BE 2 PER EACH END FOR A TOTAL OF FOUR PER VAULT. IRONS TO BE MOUNTED IN THE SHORT END WALLS. TWO PULLING ATTACHMENTS SHALL EMBEDDED INTO EACH OF THE CORNERS OF THE MIDDLE SECTION BY UTILITY VAULT CO. FOR A TOTAL OF EIGHT ATTACHMENTS PER MIDDLE SECTION. PULLOUT STRENGTH OF EACH IRON OR ATTACHMENT SHALL BE 4000 LBS MINIMUM AT ANY ANGLE. USE CLUTCH TOOL ON THESE ATTACHMENTS.
4. EACH VAULT SHALL HAVE TERM-A-DUCT PLASTIC KNOCKOUTS INSTALLED BY UTILITY VAULT CO. AS SHOWN IN SECTION A, B, & C THIS SHEET. PVC REDUCING BUSHINGS SHALL BE USED BY CONTRACTOR IF CONDUIT IS NOT THE SAME SIZE AS KNOCKOUT. SEAL CONDUIT IN PLASTIC KNOCKOUT WITH NO. 40 DUROMETER NEOPRENE-ASTM D.735.
5. EACH VAULT TO HAVE "C" CHANNELS PRE-CAST INTO VAULT BY UTILITY VAULT CO, THERE ARE TO BE 3 EACH ON THE LONG SIDES OF THE VAULT FOR A TOTAL OF 6 PER VAULT.
6. TO REDUCE THE VAULT TOTAL WEIGHT, PANELS ARE CAST INTO THE VAULTS WITH ADJOINING RIBS FOR THE DESIGN STRENGTH. WHEN USING CONCRETE ANCHORS (RED HEADS, HILTI'S, ETC.), BE SURE TO DRILL INTO THE RIB TO ENSURE ADEQUATE PULLOUT STRENGTH. THE SUPPLIER HAS MARKED THE RIB POSITIONS WITH SMALL DIMPLES ON THE UPPER VAULT WALLS, OR USE THE MEASUREMENTS ON THIS SHEET AS AN APPROXIMATE LOCATOR.
7. GROUND RODS SHALL BE INSTALLED AT THE BACK RIGHT INSIDE CORNER OF THE VAULT AND DRIVEN WITHIN 6" OF THE TOP OF THE ROD. A #6 BSD CU CONDUCTOR SHALL BE ATTACHED TO THE GROUND ROD, THREADED THROUGH THE SMALL HOLE NEAR THE VAULT TOP AND COILED OUTSIDE FOR USE BY TELCO AND CATV.
8. MANHOLE SHALL BE SET ON A TWO FOOT D-1 GRAVEL BASE. COMPACT BASE TO 95% IN 6 INCH LIFTS.
9. DO NOT REMOVE SUMP KNOCKOUT.
10. MANHOLE ACCESS DOORS SHALL BE CENTERED IN SIDEWALK UNLESS SHOWN OTHERWISE ON THE PLANS AND SHALL BE FLUSH WITH FINISHED GRADE OF SIDEWALK. MANHOLES SHALL BE LOCATED AWAY FROM HIGH TRAFFIC AREAS.
11. CABLE RACKS SHALL BE INSTALLED AS SHOWN IN THE MANHOLE CABLE RACKING HARDWARE DETAIL. CABLES SHALL BE SECURED TO RACKS WITH NYLON TIE WRAPS.
12. MANHOLES SHOULD BE GROUTED WITH SINK-A-PLUG OR EQUIVALENT SEALER.

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson EE-5604

P:\SIT\70606\94\PLANSET\#SHT63

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MANHOLE
SECTIONS & DETAILS

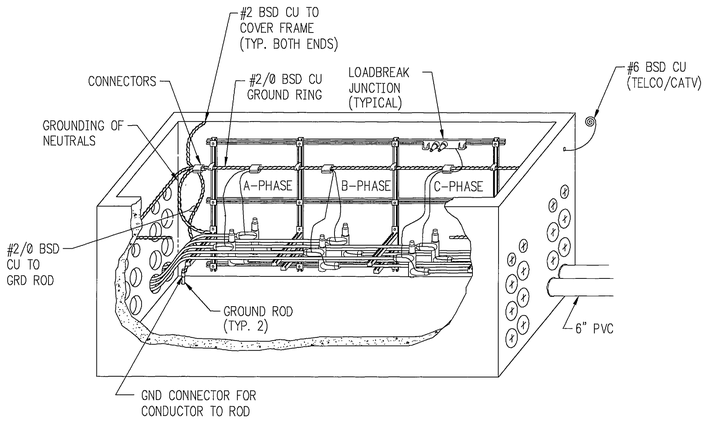
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO
DRAWN BY: F. NADJMI-EBASCO
CHECKED BY: M. CARSON-NETS

PROJECT NO. 0886-203
DATE: FEBRUARY, 1994
SHEET 63

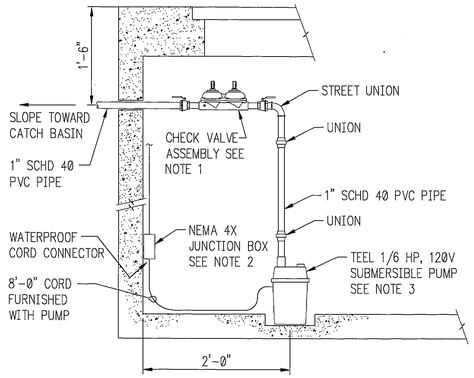
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

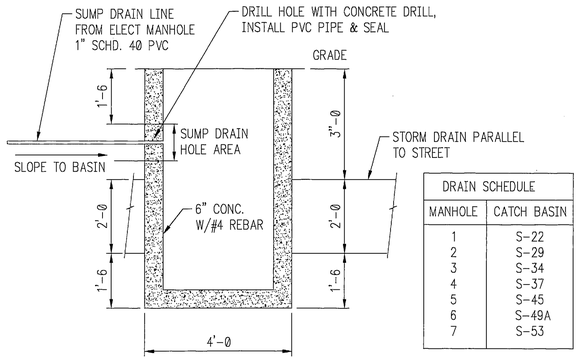


TYPICAL ELECTRICAL MANHOLE GROUNDING

N.T.S.
SEE NOTE 4, 5, 6 & 7



TYPICAL MANHOLE SECTION AT SUMP



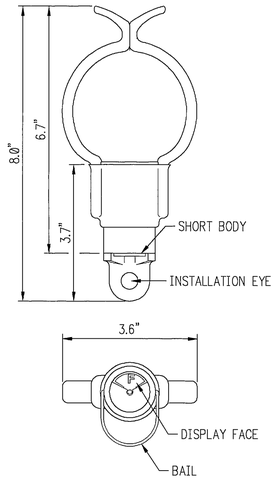
DRAIN SCHEDULE	
MANHOLE	CATCH BASIN
1	S-22
2	S-29
3	S-34
4	S-37
5	S-45
6	S-49A
7	S-53

CATCH BASIN ENTRANCE DETAIL

FOR ELECTRICAL MANHOLE SUMP DRAIN LINE (SHOWN IN SECTION)
NOTE: DRAIN MAY ENTER BASIN FROM ANY SIDE

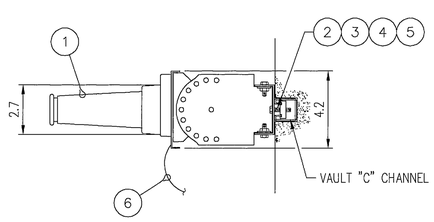
NOTES

1. DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY, HERSEY MODEL FDC.
2. NEMA 4X JUNCTION BOX (FIELD LOCATE) WITH A 2-POLE FUSE BLOCK MOUNTED INSIDE BOX. FUSE BLOCK TO HAVE 1-15 A FUSE & 1-FUSE LINK.
3. SUMP PUMPS SHALL BE LOCATED ON THE LOW END OF THE MANHOLE AWAY FROM PRIMARY CABLES. SUMP PUMP DISCHARGE SHOULD DRAIN TO THE NEAREST CATCH BASIN SHOWN ON THE PLANS.
4. JUNCTIONS AND CABLE CONCENTRIC NEUTRALS SHALL BE GROUNDED TO VAULT GROUND LOOP & INTERIOR GROUND RODS. SUFFICIENT CABLE SLACK SHALL BE PROVIDED TO PERMIT DISCONNECTION OF ELBOWS AND MOUNTING ON PARKING STAND.
5. FAULT INDICATORS SHALL BE INSTALLED ON ALL FEEDER AND TAP CIRCUITS AT A VISIBLE LOCATION. FAULT INDICATORS SHALL BE COOPER TYPE TPR-J OR UTILITY APPROVED EQUIVALENT. CONSULT UTILITY FOR TRIP RATINGS.
6. TWO POSITION LOAD BREAK JUNCTIONS SHALL BE MOUNTED ON THE MANHOLE WALL FOR ALL LOCAL TAP CIRCUITS. THE LAYOUT OF THE COOPER JUNCTIONS FOR EACH MANHOLE IS SHOWN IN THE JUNCTION LAYOUT DETAIL THIS SHEET. CABLES SHALL NOT BE BENT TO LESS THAN THE MANUFACTURERS MINIMUM BENDING RADIUS. BRACKETS SHALL BE STAINLESS STEEL AND SHALL BE MOUNTED ON THE SAME SIDE OF THE VAULT AS THE COVER HINGES TO ALLOW FULL ACCESS WITH A "HOT" STICK WHEN THE DOORS ARE OPEN.
7. THE VAULT GROUND RING SHALL BE #2/0 BSD CU. AND SHALL BE CONNECTED TO 2(TWO) GROUND RODS LOCATED INSIDE OF THE VAULT AT EACH END. ATTACH THE GROUND RING TO THE UPPER "C" CHANNEL OF THE CABLE VAULT.
8. GROUND RODS TO BE COPPER CLAD 5/8" DIA x 10'-0 LONG. DRIVE RODS (2 PER MANHOLE) IN KNOCK-OUTS PROVIDED IN MANHOLE BASE LEAVING 6" ABOVE BASE FOR CONNECTIONS. SEAL AROUND GROUND ROD FOR WATER TIGHT SEAL IN BOTTOM OF MANHOLE.
9. USE COMPRESSION GROUNDING CONNECTORS FOR ALL TAPS & GROUNDING TO GROUND ROD.



FAULT INDICATOR

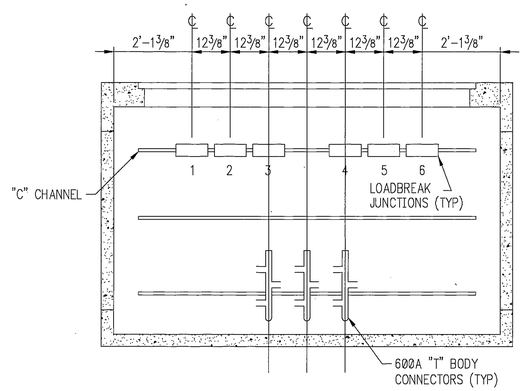
N.T.S.
SEE NOTE 5



ITEM	QTY	DESCRIPTION
1	AS REQ'D	COOPER 15KV 200A TWO POSITION LOADBREAK JUNCTION WITH SS BRACKET
2	AS REQ'D	SPRING STUD NUT, 3/8"x1" (2 PER JUNCTION)
3	AS REQ'D	3/8" FLAT WASHER
4	AS REQ'D	3/8" LOCK WASHER
5	AS REQ'D	3/8" HEX. NUT
6	AS REQ'D	#2 CU JUMPER TO VAULT RING

LOADBREAK JUNCTION ASSEMBLY DETAIL

N.T.S.
SEE NOTE 5



ELECTRICAL MANHOLE SECTION

MANHOLE	JUNCTION POSITION					
	1	2	3	4	5	6
EM1	LFA	LFB	LFC			
EM2		LFB	LFC			
EM3	LFA	LFB				
EM4	LFA					
EM5	LFA	LFB	LFC			
EM6	EFA	EFB	EFC	LFA	LFB	LFC
EM7	LFA	LFB	LFC			

LEGEND:

EM1-EM7	ELECTRICAL MANHOLE NO. 1 THROUGH NO. 7
LF	LOCAL FEEDER
EF	EXPRESS FEEDER
A	PHASE A
B	PHASE B
C	PHASE C

JUNCTION LAYOUT DETAIL FOR COOPER JUNCTIONS

N.T.S.
SEE NOTE 6

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SHT64

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

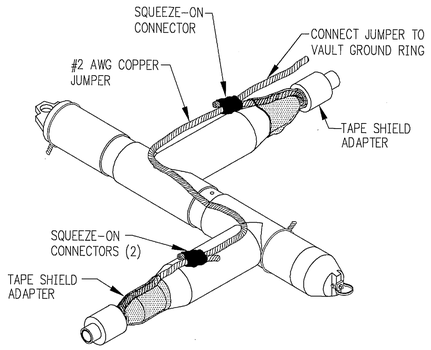
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MANHOLE
SECTIONS & DETAILS

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

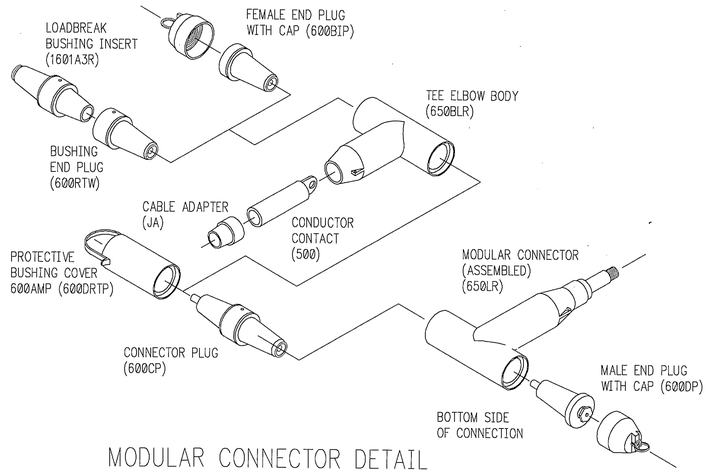
DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 64

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER



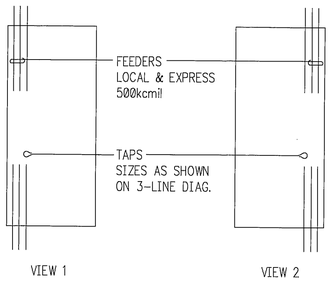
TAPE SHIELD GROUNDING DETAIL

N.T.S.
SEE NOTE 1 & 2



MODULAR CONNECTOR DETAIL

N.T.S.
NOTE: ALL NUMBERS ARE ELASTIMOLD CATALOG NUMBERS



MANHOLE CIRCUIT LAYOUT OPTIONS

(SHOWN IN PLAN)
N.T.S.

NOTES (FOR TAPE SHIELD GROUNDING & MODULAR CONNECTORS)

1. CABLE TAPE SHIELDS SHALL BE GROUNDED WITH A TAPE SHIELD ADAPTER AS SHOWN IN THE GROUNDING DETAIL. FOLLOW MANUFACTURER'S INSTRUCTIONS. TWIST THE CONCENTRIC NEUTRAL OF EACH OF THE TAP CONDUCTORS AND CONNECT TO THE VAULT GROUND RING.

2. THE SEPARATE NEUTRALS OF THE LOCAL & AND EXPRESS FEEDER SHALL BE CONTINUOUS AND SHALL BE CONNECTED TO THE VAULT GROUND RING.

3. MODULAR CONNECTORS

3.1 THE MODULAR CONNECTORS SHALL BE ASSEMBLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. TRAIN THE ASSEMBLY WITH THE BUSHING END UP IN ORDER TO ATTACH A GROUNDING ELBOW WHEN THE NEED DICTATES.

3.2 ELASTIMOLD CONNECTORS ARE SHOWN IN THE MODULAR CONNECTOR DETAIL (THIS SHEET) COMPATABLE COOPER CONNECTORS MAY ALSO BE USED, OR OTHER MANUFACTURERS APPROVED BY THE UTILITY.

3.3 WHEN ASSEMBLING COMPONENTS, THE RUBBER HOUSING SHALL BE CONNECTED SO THAT THE ELBOW BUSHING TAP IS ON THE UPPER END. THIS WILL MAKE REMOVAL OF THE CONNECTORS EASIER. THE CONNECTORS SHOULD BE SPACED ACCORDING TO THE JUNCTION LAYOUT DETAIL (SHEET 64).

3.4 MODULAR CONNECTORS SHOULD BE INSTALLED ONLY IN VAULTS OR ENCLOSURES TO ALLOW FUTURE ACCESS TO THEM. THE CONNECTORS MUST BE SUPPORTED USING CABLE RACKS AND HANGERS IN ORDER THAT THE TOTAL WEIGHT DOES NOT DAMAGE THE CABLES. INSTALL A CABLE RACK AND HANGER ON EACH SIDE OF THE SPLICE. USE PLASTIC TIES TO SECURE THE CABLES TO THE HANGERS. ALLOW AT LEAST A TEN-FOOT HORIZONTAL SPACE FOR SPLICING AND CABLE TRAINING.

3.5 PREPARE THE CABLES USING THE MANUFACTURER'S INSTRUCTIONS. AFTER ATTACHING THE ELBOW, CONNECT DRAIN WIRE TO CONNECTOR BODY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO PREVENT STATIC VOLTAGE ON ELBOWS.

4. GROUNDING AND/OR REMOVAL OF 600 AMP CONNECTORS

4.1 TESTING OF THE CIRCUIT:

A – USE A PHASING SET TO TEST THE CIRCUIT.

B – AFTER THE PHASING TOOL HAS BEEN TESTED AND FOUND TO BE WORKING PROPERLY, DE-ENERGIZE AND TAG THE CIRCUIT.

C – TEST THE CIRCUIT AGAIN. IF THE METER INDICATES NO VOLTAGE, THEN PROCEED WITH GROUNDING OF THE CONNECTOR. IF THE METER INDICATES STEADY VOLTAGE, CHECK FEEDER MAPS TO DETERMINE THE SOURCE OF FEED. DO NOT PROCEED FURTHER UNTIL YOU ARE SURE THAT THE CABLE IS DE-ENERGIZED.

4.2 GROUNDING OF THE CIRCUIT:

A – THE PREFERRED METHOD OF GROUNDING IS TO USE A GROUNDING ELBOW. IF A BUSHING INSERT IS NOT INSTALLED ON THE MODULAR CONNECTOR, THEN REMOVE THE END PLUG AND INSTALL A GROUNDING TOOL. ALWAYS USE HOT STICKS FOR THIS PROCEDURE.

B – GROUND THE CIRCUIT AT THE WORK SITE, AND AT BOTH ENDS OF THE 600A CONNECTOR AT THE NEXT VAULT OR POLE.

4.3 REMOVAL OF 600A CONNECTOR:

WITH EACH PHASE OF THE CIRCUIT GROUNDED ACCORDING TO NOTE 4.2 THE CREW CAN NOW START TO DISASSEMBLE THE 600A CONNECTOR.

A – AS EACH MODULAR HOUSING IS REMOVED, INSERT A FEMALE END PLUG (#600BIP) OR INSULATED STANDOFF IN ONE END AND A GROUNDING TOOL IN THE OTHER END. TIGHTEN THESE PLUGS TO PREVENT MOISTURE FROM ENTERING THE HOUSING AND TO GROUND THE FEEDER CABLE, IF NEEDED. USE SILICON GREASE ON THESE COMPONENTS TO PREVENT STICKING OF THE RUBBER MATERIALS.

B – INSTALL A 600A PROTECTIVE BUSHING COVER (#600DRTP) ON ANY REMAINING EXPOSED CONNECTOR PARTS.

NOTES (GENERAL, FOR CONDUIT & DUCT BANKS)

1. EMBEDDED CONDUITS – OUTDOORS

1.1 DUCT BANKS – GENERAL

A – ALL BURIED CONDUIT RUNS SHALL CONFORM TO THE PROJECT ELECTRICAL DRAWINGS. ANY DEVIATION FROM THESE DRAWINGS SHALL BE APPROVED BY FIELD ENGINEERING PRIOR TO THE CONDUIT INSTALLATION.

1.2 DIRECT BURIED DUCT BANKS

A – DIRECT BURIED ELECTRICAL CONDUITS SHALL BE PVC. SCHEDULE 80 ELECTRICAL GRADE, UNLESS OTHERWISE NOTED.

B – DIRECT BURIED TELEPHONE & CATV CONDUITS SHALL BE PVC. SCHEDULE 40 ELECTRICAL GRADE, UNLESS OTHERWISE NOTED.

C – BEDDING & COVER SHALL BE USED TO PERMIT THE MOVEMENT OF CONDUITS UNDER SEISMIC CONDITIONS.

D – PLASTIC SPACERS SHALL BE INSTALLED AT APPROXIMATELY 7'-0 INTERVALS TO SEPARATE & TO SUPPORT CONDUITS DURING INSTALLATION OF A CONDUIT BANK. THE APPROXIMATE CONDUIT SPACING, WHEN USING THESE SPACERS, IS AS FOLLOWS: (NOTE: ALL DIMENSIONS ARE IN INCHES)

CONDUIT SIZE	VERTICAL SPACING	HORIZONTAL SPACING	CONDUIT TO EDGE OF FILL
2	4	4	4
4	6	6	5
6	7 3/8	7 3/8	6

E – FILL FOR ENCASEMENT OF CONDUIT SHALL BE NFS SAND OR PEA GRAVEL (3/8" DIA. OR LESS). REMINDER OF TRENCH BACKFILL SHALL BE SELECT MATERIAL COMPACTED TO 95% IN 6 INCH LIFTS.

1.3 CONDUIT SLOPES & TERMINATIONS

A – STANDARD PREFABRICATED SCHEDULE 80 PVC SWEEPS MAY BE NORMALLY USED ON ALL 4" AND 6" CONDUIT INSTALLATIONS. ALL SWEEPS SHALL HAVE A MINIMUM RADIUS OF 36", EXCEPT 2" CONDUIT SWEEPS MAY BE REDUCED TO 24" ON CONDUIT RUNS LESS THAN 25' WITH NO MORE THAN TWO 90° BENDS. SEE SHEET 106 FOR STANDARD SWEEP LAYOUT FOR PRIMARY CABLES.

B – RIGID GALVANIZED STEEL (RGS) SWEEPS SHALL BE USED, AS A MINIMUM, AT THE LOCATIONS SHOWN ON SHEET 106. IN GENERAL, RGS CONDUIT SWEEPS SHALL BE USED FOR LARGE ANGLE BENDS (GREATER THAN 45°) ON ELECTRICAL CONDUIT RUNS GREATER THAN 150 FEET WITH MORE THAN TWO 90° BENDS OR WHEN REQUIRED TO PREVENT BURNTHROUGH DURING PULLING OPERATIONS. RGS CONDUIT SHOULD NOT BE USED FOR TELEPHONE OR CATV INSTALLATIONS.

C – SCHEDULE 80 PVC ELBOWS SHALL BE USED FOR ALL UNDERGROUND CONDUITS TURNING UP & EXITING AT GRADE ELEVATION WHERE CABLES CAN BE PULLED FROM A MANHOLE AT THE OPPOSITE END.

D – UNDERGROUND CONDUITS OUTDOORS SHALL BE TERMINATED 6" ABOVE GRADE SURROUNDED BY A MINIMUM OF 3" CONCRETE ENVELOPE WITH 1" CHAMFER.

E – WRAP ALL STEEL ELBOWS & FITTINGS WITH SCOTCHWRAP 51 ALL-WEATHER, CORROSION PROTECTION. TAPE TO PROTECT CONDUIT FROM MOISTURE & CORROSION.

F – DUCT BANKS SHALL BE SLOPED TOWARD MANHOLES TO PREVENT ACCUMULATION OF WATER.

G – DUCTS CONTAINING MEDIUM VOLTAGE POWER CABLES SHALL NOT CROSS OVER TELEPHONE OR CATV DUCTS.

H – RIGID GALVANIZED STEEL CONDUIT SHALL BE USED TO PREVENT TRAFFIC SIGNAL INTERFERENCE FROM ELECTRICAL CABLES IN THE VICINITY OF TRAFFIC CONTROL LOOPS.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SHT 65

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
MANHOLE DETAILS
SECTIONS & DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 65

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	LF-001	4"	SCHED 80 PVC	305	ELECT MANHOLE EM-1	ELECT TRANSFORMER ET-1	LF101
	LF-002	6"	SCHED 80 PVC	170	ELECT SWITCH ES-1	ELECT MANHOLE EM-1	LF100
	LF-003	4"	SCHED 80 PVC	350	ELECT MANHOLE EM-1	EXISTING POLE S. LAKEVIEW ST.	LF103
	LF-004	4"	SCHED 80 PVC	95	ELECT MANHOLE EM-1	ELECT TRANSFORMER ET-2	LF102
	LF-005	6"	SCHED 80 PVC	295	ELECT MANHOLE EM-1	ELECT MANHOLE EM-2	LF100
	LF-006	4"	SCHED 80 PVC	175	ELECT MANHOLE EM-2	NEW POLE PP-3 CRABAPPLE DR.	LF104
	LF-007	6"	SCHED 80 PVC	395	ELECT MANHOLE EM-2	ELECT MANHOLE EM-3	LF100
	LF-008	4"	SCHED 80 PVC	100	ELECT MANHOLE EM-2	ELECT TRANSFORMER ET-3	LF105
	LF-009	4"	SCHED 80 PVC	275	ELECT MANHOLE EM-3	NEW POLE PP-4 N. LAKEVIEW DR.	LF107
	LF-010	4"	SCHED 80 PVC	130	ELECT MANHOLE EM-3	ELECT TRANSFORMER ET-4	LF106
	LF-011	6"	SCHED 80 PVC	492	ELECT MANHOLE EM-3	ELECT MANHOLE EM-4	LF100
	*LF-012	6"	SCHED 80 PVC	530	ELECT MANHOLE EM-4	ELECT MANHOLE EM-5	LF100
	*LF-013	4"	SCHED 80 PVC	140	ELECT MANHOLE EM-4	ELECT TRANSFORMER ET-5	LF108
	LF-014	6"	SCHED 80 PVC	70	ELECT MANHOLE EM-4	ELECT SWITCH ES-3	LF109
	LF-015	4"	SCHED 80 PVC	315	ELECT TRANSFORMER ET-5	ELECT TRANSFORMER ET-6	LF110
	LF-016	6"	SCHED 80 PVC	343	ELECT MANHOLE EM-5	ELECT MANHOLE EM-6	LF100
	LF-017	5"	SCHED 80 PVC	20	ELECT MANHOLE EM-5	ELECT PULL BOX EP-9	LF111
	LF-018	4"	SCHED 80 PVC	227	ELECT PULL BOX EP-9	ELECT PULL BOX EP-10	LF112
	LF-019	5"	SCHED 80 PVC	60	ELECT MANHOLE EM-6	ELECT PULL BOX EP-11	LF116
	LF-020	5"	SCHED 80 PVC	154	ELECT PULL BOX EP-11	ELECT SWITCH ES-4	LF117
	LF-021	6"	SCHED 80 PVC	217	ELECT MANHOLE EM-6	ELECT MANHOLE EM-7	LF100
	LF-022	4"	SCHED 80 PVC	57	ELECT MANHOLE EM-7	EXISTING TRANSFORMER AT McDONALDS	LF120
	LF-023	6"	SCHED 80 PVC	63	ELECT MANHOLE EM-7	ELECT SWITCH ES-5	LF100
	LF-024	4"	SCHED 80 PVC	20	ELECT PULL BOX EP-9	ELECT TRANSFORMER ET-7	LF113
	LF-025	4"	SCHED 80 PVC	20	ELECT PULL BOX EP-9	ELECT TRANSFORMER ET-8	LF114
	LF-026	4"	SCHED 80 PVC	-	ELECT PULL BOX EP-10	EXISTING TRANSF AT TRUE VALUE	LF115
	LF-027	4"	SCHED 80 PVC	20	ELECT PULL BOX EP-11	ELECT TRANSFORMER ET-9	LF118
	LF-028	4"	SCHED 80 PVC	20	ELECT PULL BOX EP-11	ELECT TRANSFORMER ET-10	LF119

*NOTE: LF-012 AND LF-013 SHALL BE RGS CONDUIT FROM STATION 51+30 TO 52+60 KATLIAN ROAD CROSSING AND FOR THE HPR CROSSING TO MOLLER PARK. (70')

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	SP-001	4"	SCHED 80 PVC	280	EXISTING POLE ERLER ST.	ELECT PULL BOX EP-1	
	SP-002	6"	SCHED 80 PVC	170	ELECT SWITCH ES-1	ELECT MANHOLE EM-1	
	SP-003	6"	SCHED 80 PVC	170	ELECT SWITCH ES-2	ELECT MANHOLE EM-1	
	SP-004	6"	SCHED 80 PVC	295	ELECT MANHOLE EM-1	ELECT MANHOLE EM-2	
	SP-005	6"	SCHED 80 PVC	295	ELECT MANHOLE EM-1	ELECT MANHOLE EM-2	
	SP-006	6"	SCHED 80 PVC	395	ELECT MANHOLE EM-2	ELECT MANHOLE EM-3	
	SP-007	6"	SCHED 80 PVC	395	ELECT MANHOLE EM-2	ELECT MANHOLE EM-3	
	SP-008		NOT USED				
	SP-009	6"	SCHED 80 PVC	492	ELECT MANHOLE EM-3	ELECT MANHOLE EM-4	
	SP-010	6"	SCHED 80 PVC	492	ELECT MANHOLE EM-3	ELECT MANHOLE EM-4	
	SP-011	4"	SCHED 80 PVC	81	ELECT MANHOLE EM-4	STUB-OUT AT 50+30	
	*SP-012	6"	SCHED 80 PVC	530	ELECT MANHOLE EM-4	ELECT MANHOLE EM-5	
	*SP-013	6"	SCHED 80 PVC	530	ELECT MANHOLE EM-4	ELECT MANHOLE EM-5	
	SP-014	4"	SCHED 80 PVC	310	ELECT MANHOLE EM-5	STUB-OUT AT ROAD CROSSING 53+90	
	SP-015	4"	SCHED 80 PVC	160	ELECT MANHOLE EM-5	STUB-OUT AT ROAD CROSSING 55+40	
	SP-016	6"	SCHED 80 PVC	343	ELECT MANHOLE EM-5	ELECT MANHOLE EM-6	
	SP-017	6"	SCHED 80 PVC	343	ELECT MANHOLE EM-5	ELECT MANHOLE EM-6	
	SP-018	6"	SCHED 80 PVC	217	ELECT MANHOLE EM-6	ELECT MANHOLE EM-7	
	SP-019	6"	SCHED 80 PVC	217	ELECT MANHOLE EM-6	ELECT MANHOLE EM-7	
	SP-020	6"	SCHED 80 PVC	255	ELECT MANHOLE EM-7	NEW POLE PP-6 HALIBUT POINT RD.	

*NOTE: SP-012 AND SP-013 SHALL BE RGS CONDUIT FROM STATION 51+30 TO 52+60 KATLIAN ROAD CROSSING AND FOR THE HPR CROSSING TO MOLLER PARK. (70')

NOTE:
FOR CONDUIT NUMBER LEGEND SEE SHEET 68

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	EX-001	6"	SCHD 80 PVC	170	ELECT SWITCH ES-2	ELECT MANHOLE EM-1	EX100
	EX-002	6"	SCHD 80 PVC	295	ELECT MANHOLE EM-1	ELECT MANHOLE EM-2	EX100
	EX-003	6"	SCHD 80 PVC	395	ELECT MANHOLE EM-2	ELECT MANHOLE EM-3	EX100
	EX-004	6"	SCHD 80 PVC	492	ELECT MANHOLE EM-3	ELECT MANHOLE EM-4	EX100
	*EX-005	6"	SCHD 80 PVC	530	ELECT MANHOLE EM-4	ELECT MANHOLE EM-5	EX100
	EX-006	6"	SCHD 80 PVC	343	ELECT MANHOLE EM-5	ELECT MANHOLE EM-6	EX100
	EX-007	5"	SCHD 80 PVC	207	ELECT MANHOLE EM-6	ELECT SWITCH ES-4	EX101
	EX-008	6"	SCHD 80 PVC	217	ELECT MANHOLE EM-6	ELECT MANHOLE EM-7	EX100
	EX-009	6"	SCHD 80 PVC	63	ELECT MANHOLE EM-7	ELECT SWITCH ES-5	EX102
	EX-010	6"	SCHD 80 PVC	255	ELECT MANHOLE EM-7	ELECT SWITCH ES-6	EX100

*NOTE: EX-005 SHALL BE RGS CONDUIT FROM STATION 51+30 TO 52+60, KATLIAN ROAD CROSSING

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	P-001	2"	SCHED 80 PVC	145	ELECT TRANSFORMER ET-1	ELECT PULLBOX EP-2	P100
	P-002	4"	SCHED 80 PVC	80	ELECT TRANSFORMER ET-1	ELECT PULLBOX EP-3	P101
	P-003		NOT USED				
	P-004	2"	SCHED 80 PVC	100	ELECT TRANSFORMER ET-2	ELECT MANHOLE EM-1 SUMP PUMP	P102
	P-005	2"	SCHED 80 PVC	122	ELECT TRANSFORMER ET-2	DUPLEX 507/509 HALIBUT POINT RD.	P103
	P-006	2"	SCHED 80 PVC	100	ELECT TRANSFORMER ET-3	ELECT MANHOLE EM-2 SUMP PUMP	P104
	P-007	2"	SCHED 80 PVC	126	ELECT TRANSFORMER ET-3	ELECT PULL BOX EP-4	P105
	P-008	2"	SCHED 80 PVC	60	NEW POLE PP-4 N. LAKEVIEW DR	ELECT PULL BOX EP-5	P106
	P-009	2"	SCHED 80 PVC	75	ELECT TRANSFORMER ET-4	ELECT PULL BOX EP 6	P107
	P-010	2"	SCHED 80 PVC	75	ELECT PULL BOX EP 6	ELECT MANHOLE EM-3 SUMP PUMP	P108
	P-011	2"	SCHED 80 PVC	173	ELECT PULL BOX EP 6	GROCERY SIGN	P109
	P-012		NOT USED				
	P-013	2"	SCHED 80 PVC	150	ELECT TRANSFORMER ET-5	ELECT MANHOLE EM-4 SUMP PUMP	P111
	P-014	2"	SCHED 80 PVC	83	ELECT TRANSFORMER ET-5	CONCESSION STAND	P112
	P-015	2"	SCHED 80 PVC	115	ELECT TRANSFORMER ET-5	ELECT PULL BOX EP-7	P113
	P-016	2"	SCHED 80 PVC	130	ELECT TRANSFORMER ET-6	EXISTING POLE H2031 MOLLER DR.	P114
	P-017	4"	SCHED 80 PVC	100	ELECT TRANSFORMER ET-7	ELECT PULL BOX EP-8	P117
	P-018		NOT USED				
	P-019	2"	SCHED 80 PVC	25	ELECT TRANSFORMER ET-7	ELECT MANHOLE EM-5 SUMP PUMP	P115
	P-020	2"	SCHED 80 PVC	180	ELECT TRANSFORMER ET-7	MOORE CLINIC	P116
	P-021	4"	SCHED 80 PVC	90	ELECT TRANSFORMER ET-9	ELECT PULL BOX EP-12	P119
	P-022	2"	SCHED 80 PVC	95	ELECT TRANSFORMER ET-10	ELECT PULL BOX EP-12	P120
	P-023	4"	SCHED 80 PVC	95	ELECT TRANSFORMER ET-10	ELECT PULL BOX EP-12	P121
	P-024	2"	SCHED 80 PVC	80	ELECT TRANSFORMER ET-9	ELECT MANHOLE EM-6 SUMP PUMP	P118
	P-025	2"	SCHED 80 PVC	57	EXISTING TRANSF AT McDONALDS	ELECT MANHOLE EM-7 SUMP PUMP	P122
	P-026	2"	SCHED 80 PVC	150	ELECT TRANSFORMER ET-2	POLE 1111	P123

*NOTE: P-013 SHALL BE RGS CONDUIT FOR THE HPR CROSSING TO MOLLER PARK. (70')
POWER CONDUIT LIST DOES NOT INCLUDE CONDUITS FOR ELECTRICAL SERVICES THAT ARE NOT IN DUCT BANK. SEE NOTE 7 ON SHEET 50 AND SHEETS 79-80 SERVICE LIST FOR SIZING THESE SERVICES.

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606B94\PLANSET\#SHT66

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/22/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SCHEDULE

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: J. CHILDRESS-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 66

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	L-001	3"	SCHED 80 PVC	180	STREET LIGHT 1	STREET LIGHT 2	
	L-002	3"	SCHED 80 PVC	176	STREET LIGHT 2	STREET LIGHT 3	
	L-003	3"	SCHED 80 PVC	166	STREET LIGHT 3	STREET LIGHT 4	
	L-004	3"	SCHED 80 PVC	182	STREET LIGHT 4	STREET LIGHT 5	
	L-005	3"	SCHED 80 PVC	185	STREET LIGHT 5	STREET LIGHT 6	
	L-006	3"	SCHED 80 PVC	178	STREET LIGHT 6	STREET LIGHT 7	
	L-007	3"	SCHED 80 PVC	105	STREET LIGHT 7	ELECT PULL BOX EP-2	
	L-008	3"	SCHED 80 PVC	105	ELECT PULL BOX EP-2	STREET LIGHT 8	
	L-009	3"	SCHED 80 PVC	142	STREET LIGHT 8	STREET LIGHT 9	
	L-010	3"	SCHED 80 PVC	20	ELECT PULL BOX EP-2	SCHOOL SIGN	
	L-011	3"	SCHED 80 PVC	145	STREET LIGHT 9	STREET LIGHT 10	
	L-012	3"	SCHED 80 PVC	65	STREET LIGHT 10	STREET LIGHT CONTROLLER	
	L-013	3"	SCHED 80 PVC	240	STREET LIGHT CONTROLLER	STREET LIGHT 11	
	L-014	3"	SCHED 80 PVC	150	STREET LIGHT 11	STREET LIGHT 12	
	L-015	3"	SCHED 80 PVC	153	STREET LIGHT 12	STREET LIGHT 13	
	L-016	3"	SCHED 80 PVC	152	STREET LIGHT 13	STREET LIGHT 14	
	L-017	3"	SCHED 80 PVC	154	STREET LIGHT 14	STREET LIGHT 15	
	L-018	3"	SCHED 80 PVC	150	STREET LIGHT 15	STREET LIGHT 16	
	L-019	3"	SCHED 80 PVC	158	STREET LIGHT 16	STREET LIGHT 17	
	L-020	3"	SCHED 80 PVC	53	STREET LIGHT 16	SCHOOL SIGN	
	L-021	3"	SCHED 80 PVC	163	STREET LIGHT 17	STREET LIGHT 18	
	*L-022	3"	SCHED 80 PVC	305	STREET LIGHT 18	STREET LIGHT 19	
	L-023	2"	SCHED 80 PVC	155	STREET LIGHT 19	STREET LIGHT 20	
	L-024	3"	SCHED 80 PVC	160	STREET LIGHT 20	STREET LIGHT 21	
	L-025	3"	SCHED 80 PVC	157	STREET LIGHT 21	STREET LIGHT 22	
	L-026	3"	SCHED 80 PVC	180	STREET LIGHT 22	STREET LIGHT 23	
	L-027	3"	SCHED 80 PVC	270	STREET LIGHT 22	SEARS JUNCTION BOX	
	L-028	3"	SCHED 80 PVC	80	SEARS JUNCTION BOX	STREET LIGHT 24	
	L-029	3"	SCHED 80 PVC	180	SEARS JUNCTION BOX	STREET LIGHT 25	
	L-030	3"	SCHED 80 PVC	160	STREET LIGHT 25	STREET LIGHT 26	
	L-031	3"	SCHED 80 PVC	50	STREET LIGHT 11	CROSSWALK LIGHT 1	
	L-032	3"	SCHED 80 PVC	60	CROSSWALK LIGHT 1	CROSSWALK LIGHT 2	
	L-033	3"	SCHED 80 PVC	15	STREET LIGHT 15	CROSSWALK LIGHT 3	
	L-034	3"	SCHED 80 PVC	70	CROSSWALK LIGHT 3	CROSSWALK LIGHT 4	

*NOTE: L022 SHALL BE RGS CONDUIT FROM STATION 51+30 TO 52+60 KATLIAN ROAD CROSSING

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	TV-001	2"	SCHED 40 PVC	215	CATV #1	HOUSE 502 HALIBUT POINT RD.	
	TV-002	2"	SCHED 40 PVC	95	CATV #1	CATV #2	
	TV-003	2"	SCHED 40 PVC	160	CATV #1	PTI POLE 359301 (NEW ARCHANGEL)	
	TV-004	4"	SCHED 40 PVC	190	CATV #3	NEW POLE PP-2 MARINE ST.	
	TV-005	2"	SCHED 40 PVC	240	CATV #3	CHURCH 514 HALIBUT POINT RD.	
	TV-006	2"	SCHED 40 PVC	275	CATV #3	CATV #4	
	TV-007	4"	SCHED 40 PVC	935	CATV #3	CATV #10	
	TV-008	2"	SCHED 40 PVC	95	CATV #5	NEW POLE PP-3 CRABAPPLE DR.	
	TV-009	4"	SCHED 40 PVC	75	CATV #4	CATV #5	
	TV-010	2"	SCHED 40 PVC	240	CATV #4	CATV #6	
	TV-011	2"	SCHED 40 PVC	180	CATV #4	BALLFIELD	
	TV-012	2"	SCHED 40 PVC	300	CATV #6	CATV #7	
	TV-013	4"	SCHED 40 PVC	145	CATV #7	CATV #8	
	TV-014	2"	SCHED 40 PVC	115	CATV #7	CATV #9	
	TV-015	2"	SCHED 40 PVC	454	CATV #9	CATV #10	
	TV-016	2"	SCHED 40 PVC	130	CATV #9	HOUSE 612 HALIBUT POINT RD.	
	TV-017	4"	SCHED 40 PVC	533	CATV #10	CATV #14	
	TV-018	2"	SCHED 40 PVC	62	CATV #10	EXISTING POLE H3081 KATLIAN AVE.	
	TV-019	4"	SCHED 40 PVC	229	CATV #10	CATV #11	
	TV-020	2"	SCHED 40 PVC	140	CATV #11	EXISTING POLE H2031 MOLLER DR.	
	TV-021	2"	SCHED 40 PVC	70	CATV #12	STUB OUT AT ROADCROSSING 53+90	
	TV-022	2"	SCHED 40 PVC	70	CATV #13	STUB OUT AT ROADCROSSING 55+40	
	TV-023	2"	SCHED 40 PVC	170	CATV #12	CATV #13	
	TV-024	2"	SCHED 40 PVC	100	CATV #13	CATV #14	
	TV-025	2"	SCHED 40 PVC	75	CATV #14	DEWEYS APTS.	
	TV-026	2"	SCHED 40 PVC	174	CATV #14	CATV #15	
	TV-027	4"	SCHED 40 PVC	330	CATV #14	CATV #16	
	TV-028	2"	SCHED 40 PVC	275	CATV #14	TRUE VALUE HARDWARE	
	TV-029	4"	SCHED 40 PVC	90	CATV #16	CATV #17	
	TV-030	2"	SCHED 40 PVC	190	CATV #16	NEW POLE PP-5 BRADY ST.	
	TV-031	2"	SCHED 40 PVC	50	CATV #17	DMV/APARTMENTS	
	TV-032	2"	SCHED 40 PVC	30	CATV #17	SEARS	
	TV-033	4"	SCHED 40 PVC	545	CATV #17	NEW POLE PP-6 HALIBUT POINT RD.	
	TV-034	4"	SCHED 40 PVC	136	CATV #18	EXISTING POLE C1141 PETERSON AVE.	
	TV-035	4"	SCHED 40 PVC	170	CATV #3	EXISTING POLE S. LAKEVIEW ST.	
	TV-036	2"	SCHED 40 PVC	190	CATV #8	NEW POLE PP-4 N. LAKEVIEW DR.	
	TV-037	2"	SCHED 40 PVC	60	CATV #18	MC DONALDS	
	TV-038	2"	SCHED 40 PVC	244	CATV #18	NEW POLE PP-6 HALIBUT POINT ROAD	

NOTE: CATV CONDUIT LIST DOES NOT INCLUDE CONDUITS FOR CATV SERVICES THAT ARE NOT IN DUCT BANK. SEE NOTE 7 ON SHEET 50 FOR SIZING THESE CONDUITS.

NOTE: FOR CONDUIT NUMBER LEGEND SEE SHEET 68

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606894\PLANSET\#SHT67

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	08/05/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
NH 099—3(3) 70606
CONDUIT SCHEDULE

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO
DRAWN BY: J. CHILDRESS-EBASCO
CHECKED BY: M. CARSON—NETS

PROJECT NO. 0886—203
DATE: FEBRUARY, 1994
SHEET 67

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	T-001	2"	SCHED 40 PVC	155	TELCO #1	TELCO #2	
	T-002	2"	SCHED 40 PVC	98	TELCO #2	TELCO #3	
	T-003	4"	SCHED 40 PVC	120	TELCO #3	TELEPHONE MANHOLE TM-1	
	T-004	4"	SCHED 40 PVC	50	TELEPHONE MANHOLE TM-1	NEW POLE 359303 MARINE ST	
	T-005	4"	SCHED 40 PVC	50	TELEPHONE MANHOLE TM-1	NEW POLE 359303 MARINE ST	
	T-006	4"	SCHED 40 PVC	50	TELEPHONE MANHOLE TM-1	NEW POLE 359303 MARINE ST	
	T-007	4"	SCHED 40 PVC	50	TELEPHONE MANHOLE TM-1	NEW POLE 359303 MARINE ST	
	T-008		NOT USED				
	T-009		NOT USED				
	T-010	4"	SCHED 40 PVC	110	TELEPHONE MANHOLE TM-1	NEW POLE PP-2 MARINE ST.	
	T-011	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-1	TELEPHONE MANHOLE TM-2	
	T-012	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-1	TELEPHONE MANHOLE TM-2	
	T-013	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-1	TELEPHONE MANHOLE TM-2	
	T-014	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-1	TELEPHONE MANHOLE TM-2	
	T-015	2"	SCHED 40 PVC	90	TELEPHONE MANHOLE TM-1	TELCO #4	
	T-016	4"	SCHED 40 PVC	460	TELEPHONE MANHOLE TM-1	EXISTING POLE N1041 S. LAKEVIEW ST.	
	T-017	4"	SCHED 40 PVC	226	TELEPHONE MANHOLE TM-1	TELCO #5	
	T-018	2"	SCHED 40 PVC	130	EXISTING POLE N1111 S. LAKEVIEW ST.	TELCO #5	
	T-019	4"	SCHED 40 PVC	160	TELEPHONE MANHOLE TM-2	NEW POLE PP-3 CRABAPPLE DR.	
	T-020				NOT USED		
	T-021	2"	SCHED 40 PVC	100	NEW POLE PP-3 CRABAPPLE DR.	TELCO #6	
	T-022	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-2	TELEPHONE MANHOLE TM-3	
	T-023	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-2	TELEPHONE MANHOLE TM-3	
	T-024	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-2	TELEPHONE MANHOLE TM-3	
	T-025	4"	SCHED 40 PVC	400	TELEPHONE MANHOLE TM-2	TELEPHONE MANHOLE TM-3	
	T-026	2"	SCHED 40 PVC	115	TELEPHONE MANHOLE TM-2	TELCO #7	
	T-027	4"	SCHED 40 PVC	232	TELEPHONE MANHOLE TM-2	TELCO #8	
	T-028	4"	SCHED 40 PVC	190	TELEPHONE MANHOLE TM-3	NEW POLE PP-4 N. LAKEVIEW DR.	
	T-029				NOT USED		
	T-030	2"	SCHED 40 PVC	50	NEW POLE PP-4 N. LAKEVIEW DR.	TELCO #9	
	T-031	4	SCHED 40 PVC	165	TELEPHONE MANHOLE TM-3	TELCO #10/HOUSE 612 HPR	
	T-032	4"	SCHED 40 PVC	515	TELEPHONE MANHOLE TM-3	TELEPHONE MANHOLE TM-4	
	T-033	4"	SCHED 40 PVC	515	TELEPHONE MANHOLE TM-3	TELEPHONE MANHOLE TM-4	
	T-034	4"	SCHED 40 PVC	515	TELEPHONE MANHOLE TM-3	TELEPHONE MANHOLE TM-4	
	T-035	4"	SCHED 40 PVC	515	TELEPHONE MANHOLE TM-3	TELEPHONE MANHOLE TM-4	
	T-036	4"	SCHED 40 PVC	130	TELEPHONE MANHOLE TM-3	ROCK RACK/TRAVEL BUREAU	
	T-037	2"	SCHED 40 PVC	81	TELEPHONE MANHOLE TM-4	STUB-OUT AT 50+30	
	T-038	4"	SCHED 40 PVC	600	TELEPHONE MANHOLE TM-4	TELEPHONE MANHOLE TM-5	
	T-039	4"	SCHED 40 PVC	600	TELEPHONE MANHOLE TM-4	TELEPHONE MANHOLE TM-5	
	T-040	4"	SCHED 40 PVC	600	TELEPHONE MANHOLE TM-4	TELEPHONE MANHOLE TM-5	
	T-041	4"	SCHED 40 PVC	600	TELEPHONE MANHOLE TM-4	TELEPHONE MANHOLE TM-5	
	T-042	4"	SCHED 40 PVC	84	TELEPHONE MANHOLE TM-4	EXISTING POLE H3081 KATLIAN AVE.	
	T-043	4"	SCHED 40 PVC	220	TELEPHONE MANHOLE TM-4	TELCO #11	
	T-044				NOT USED		
	T-045	2"	SCHED 40 PVC	140	TELCO #11	TELCO #12	
	T-046	4"	SCHED 40 PVC	72	TELCO #13	STUB-OUT AT ROADCROSSING 53+90	
	T-047	4"	SCHED 40 PVC	230	TELEPHONE MANHOLE TM-5	STUB-OUT AT ROADCROSSING 55+40	
	T-048	4"	SCHED 40 PVC	290	TELCO #13	TELCO #14	
	T-049	4"	SCHED 40 PVC	260	TELEPHONE MANHOLE TM-5	PARK OFFICE	
	T-050	4"	SCHED 40 PVC	140	TELEPHONE MANHOLE TM-5	DEWEYS/APTS	
	T-051	4"	SCHED 40 PVC	70	TELCO #14	TELEPHONE MANHOLE TM-5	
	T-052	4"	SCHED 40 PVC	140	TELCO #15	TELEPHONE MANHOLE TM-5	
	T-053	4"	SCHED 40 PVC		NOT USED		
	T-054	4"	SCHED 40 PVC	535	TELEPHONE MANHOLE TM-5	TELEPHONE MANHOLE TM-6	
	T-055	4"	SCHED 40 PVC	535	TELEPHONE MANHOLE TM-5	TELEPHONE MANHOLE TM-6	
	T-056	4"	SCHED 40 PVC	535	TELEPHONE MANHOLE TM-5	TELEPHONE MANHOLE TM-6	
	T-057	4"	SCHED 40 PVC	535	TELEPHONE MANHOLE TM-5	TELEPHONE MANHOLE TM-6	
	T-058	4"	SCHED 40 PVC	195	TELEPHONE MANHOLE TM-5	TELCO #16	
	T-059	4"	SCHED 40 PVC	330	TELEPHONE MANHOLE TM-5	NEW POLE PP-5 BRADY ST.	
	T-060	4"	SCHED 40 PVC	320	TELEPHONE MANHOLE TM-6	DMV/APARTMENTS	
	T-061	4"	SCHED 40 PVC	280	TELEPHONE MANHOLE TM-6	SEARS	
	T-062	2"	SCHED 40 PVC	20	EXISTING POLE H2031 MOLLER DR	TELCO #11	
	T-063	4"	SCHED 40 PVC	90	TELEPHONE MANHOLE TM-6	TELCO #19 (MCDONALD'S)	
	T-064	4"	SCHED 40 PVC	130	TELEPHONE MANHOLE TM-6	EXISTING POLE C1141 PETERSON AVE.	
	T-065				NOT USED		
	T-066	4"	SCHED 40 PVC	73	TELEPHONE MANHOLE TM-6	TELCO #18	
	T-067	4"	SCHED 40 PVC	240	TELEPHONE MANHOLE TM-6	NEW POLE PP-6 HALIBUT POINT RD.	
	T-068	4"	SCHED 40 PVC	240	TELEPHONE MANHOLE TM-6	NEW POLE PP-6 HALIBUT POINT RD.	
	T-069	4"	SCHED 40 PVC	240	TELEPHONE MANHOLE TM-6	NEW POLE PP-6 HALIBUT POINT RD.	
	T-070	4"	SCHED 40 PVC	240	TELEPHONE MANHOLE TM-6	NEW POLE PP-6 HALIBUT POINT RD.	
	T-071	2"	SCHED 40 PVC	240	TELEPHONE MANHOLE TM-6	NEW POLE PP-6 HALIBUT POINT RD.	
	T-072	2"	SCHED 40 PVC	160'	NEW POLE PP-5 BRADY ST.	TELCO #17	

NOTE: TELEPHONE CONDUIT LIST DOES NOT INCLUDE TELEPHONE SERVICES THAT ARE NOT IN DUCT BANK.
SEE NOTE 7 ON SHEET 50 FOR SIZING THESE CONDUITS.

REV NO.	CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	LENGTH OF RUN	FROM	TO	CONTAINS CABLES
	S-001	6"	SCHED 80 PVC		NEW POLE PP-1 MARINE ST.	ELECT SWITCH ES-1	S100
	S-002	6"	SCHED 80 PVC		NEW POLE PP-1 MARINE ST.	ELECT SWITCH ES-2	S101
	S-003	6"	SCHED 80 PVC		EXIST POLE H3081 KATLIAN AVE.	ELECT SWITCH ES-3	S102
	S-004	5"	SCHED 80 PVC		NEW POLE PP-5 BRADY ST.	ELECT SWITCH ES-4	S103
	S-005	6"	SCHED 80 PVC		EXIST POLE C1141 PETERSON AVE.	ELECT SWITCH ES-5	S104
	S-006	6"	SCHED 80 PVC		NEW POLE PP-6 HALIBUT PT. RD	ELECT SWITCH ES-6	S105

CONDUIT NUMBER LEGEND

S = PRIMARY SOURCE FEEDER
LF = LOCAL FEEDER
EX = EXPRESS FEEDER
SP = SPARE
P = POWER
L = STREET LIGHTING
TV = CABLE TELEVISION
T = TELEPHONE

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA ★ 49TH ★
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

P:\SIT\70606\94\PLANSET\SHT68

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS BUILT
	8/08/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CONDUIT SCHEDULE

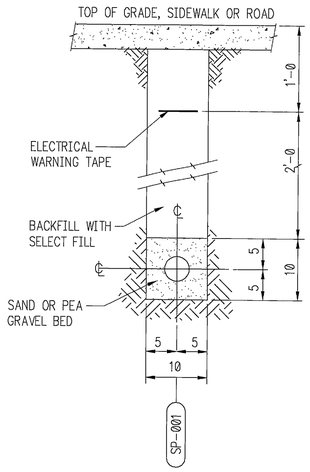
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO
DRAWN BY: J. CHILDRESS-EBASCO
CHECKED BY: M. CARSON-NETS

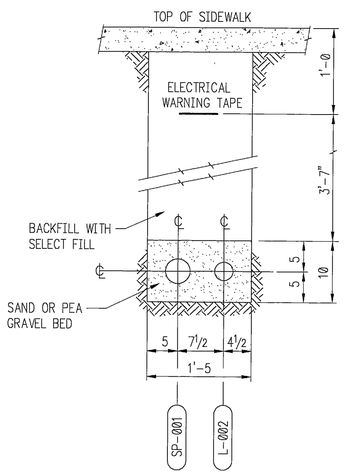
PROJECT NO. 0886-203
DATE: FEBRUARY, 1994
SHEET 68

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

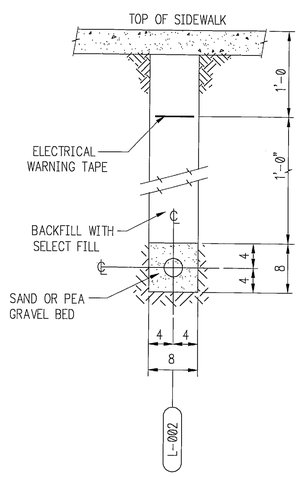
PROJECT DESIGNATION	YEAR
70606	1993



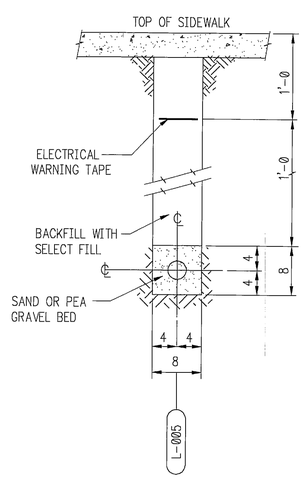
SECTION A



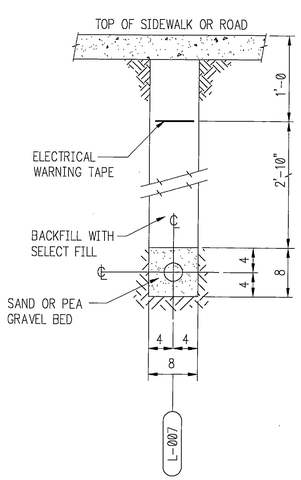
SECTION B



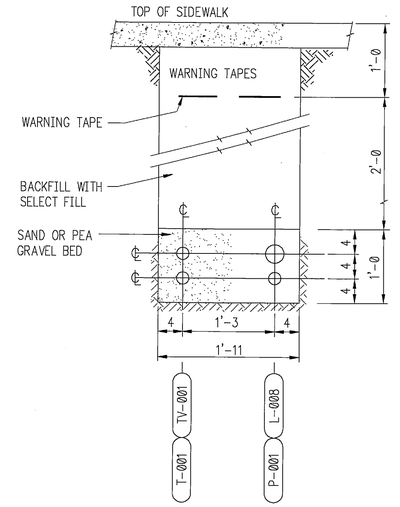
SECTION C



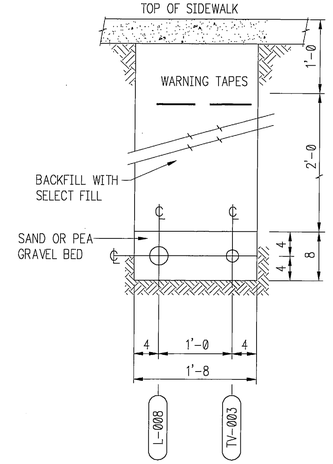
SECTION D



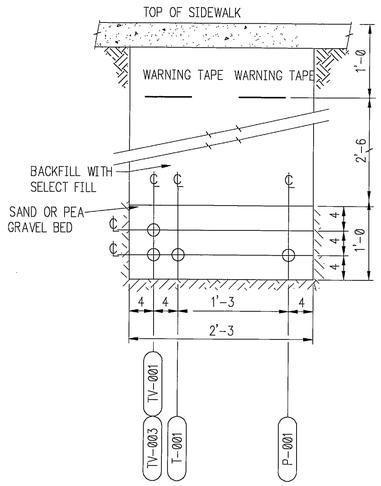
SECTION E



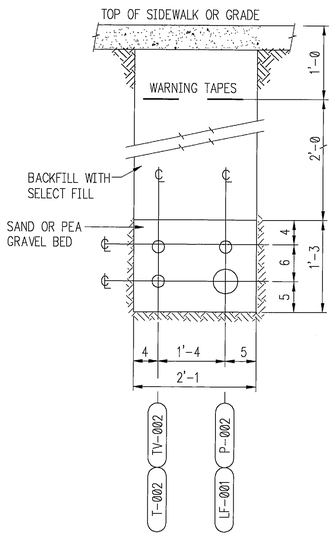
SECTION F



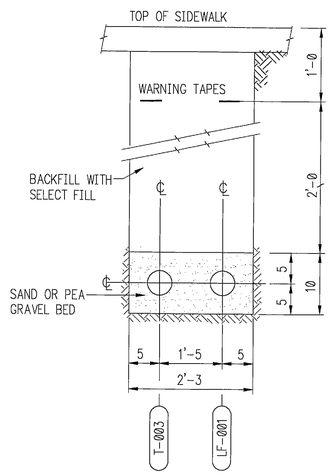
SECTION G



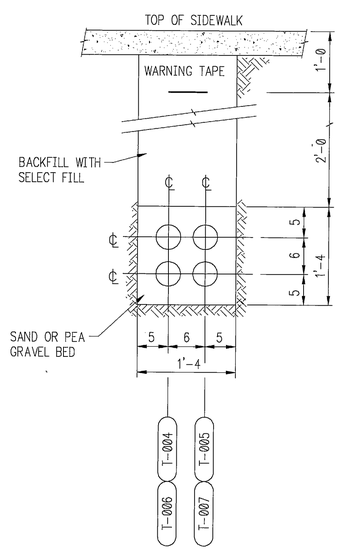
SECTION H



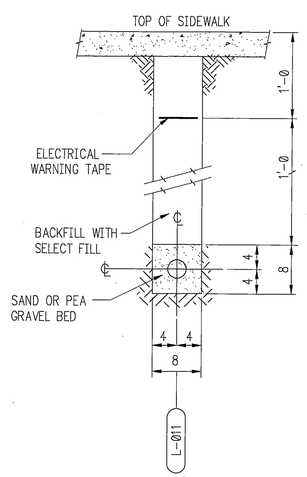
SECTION J



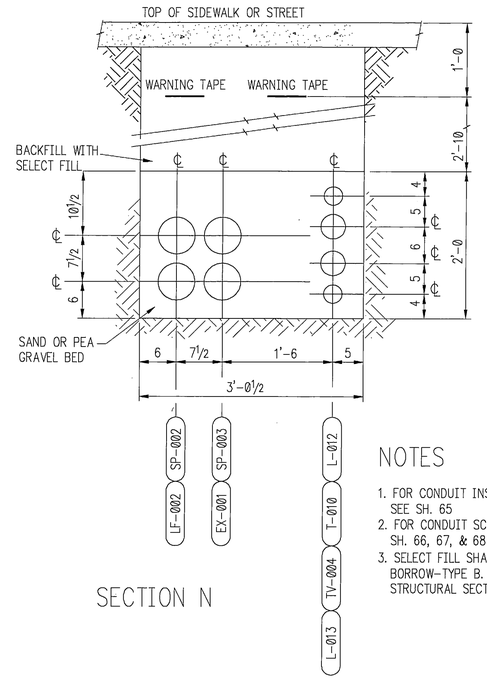
SECTION K



SECTION L



SECTION M



SECTION N

NOTES

1. FOR CONDUIT INSTALLATION NOTES SEE SH. 65
2. FOR CONDUIT SCHEDULE SEE SH. 66, 67, & 68
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

AS-BUILT
BY: KK DATE: 3/17/99

0 1 2 3 4 FT

P:\SIT\70606#94\PLANSET\# SHT69

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

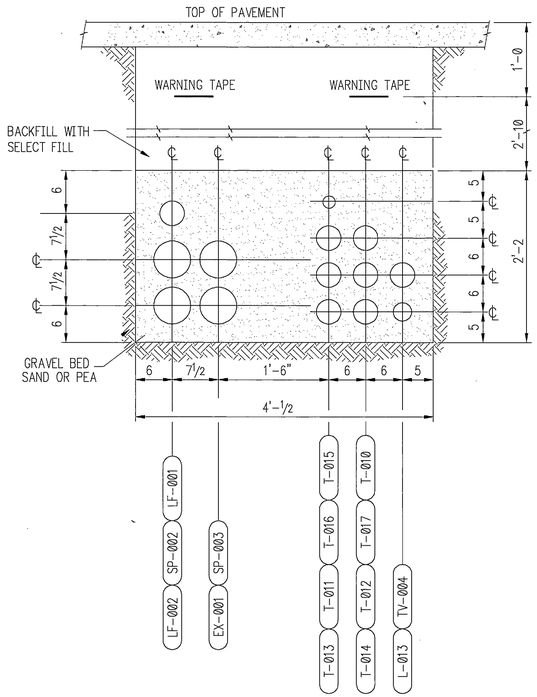
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 69

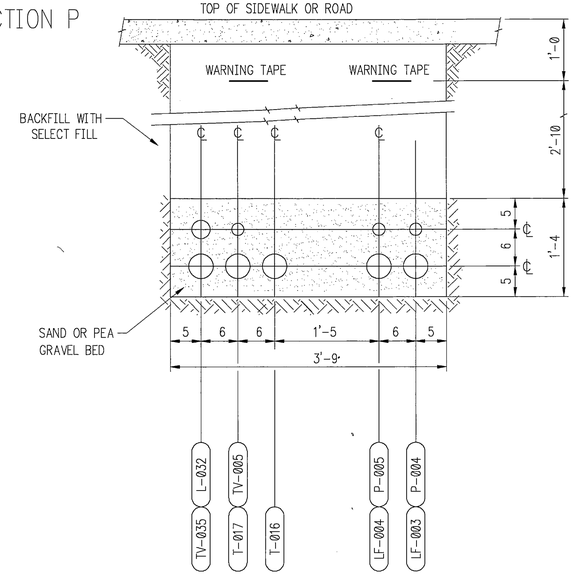
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

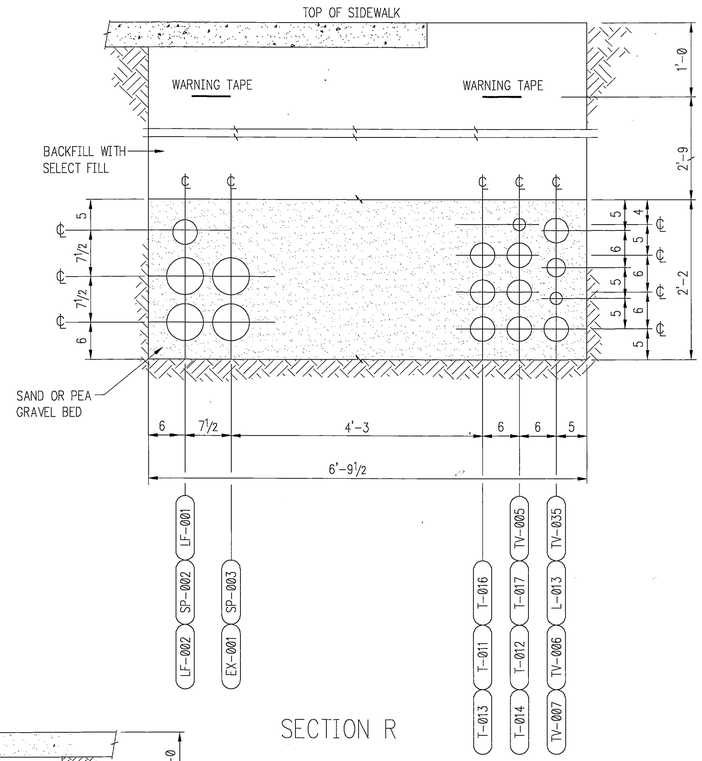
PROJECT DESIGNATION	YEAR
70606	1993



SECTION P

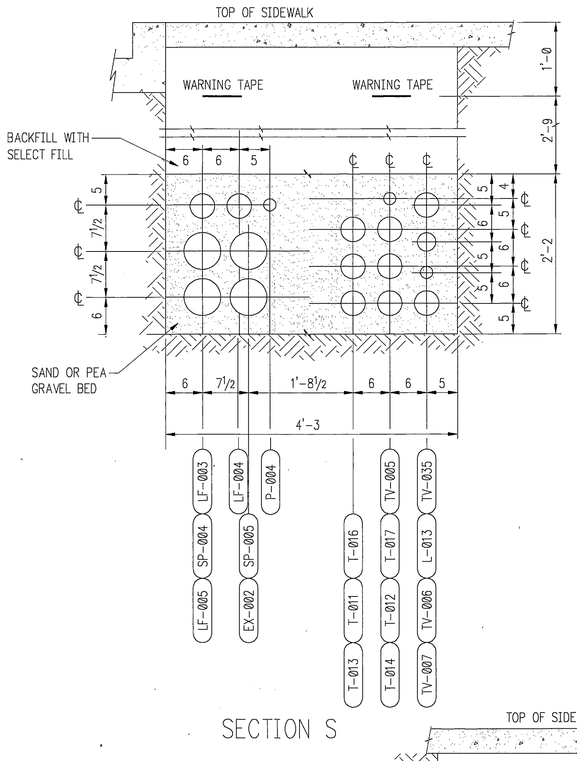


SECTION U

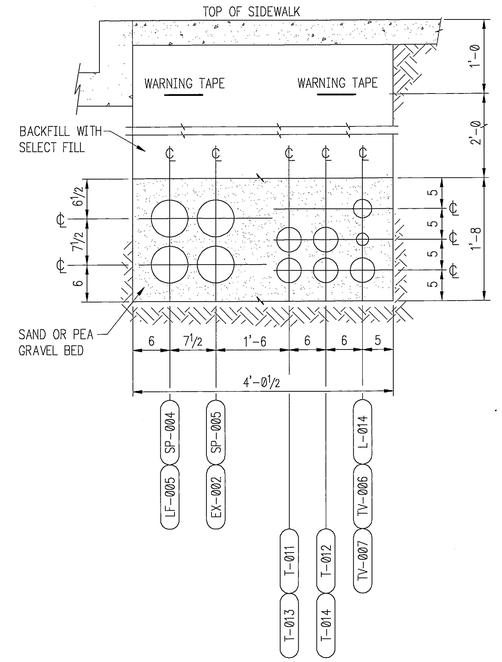


SECTION R

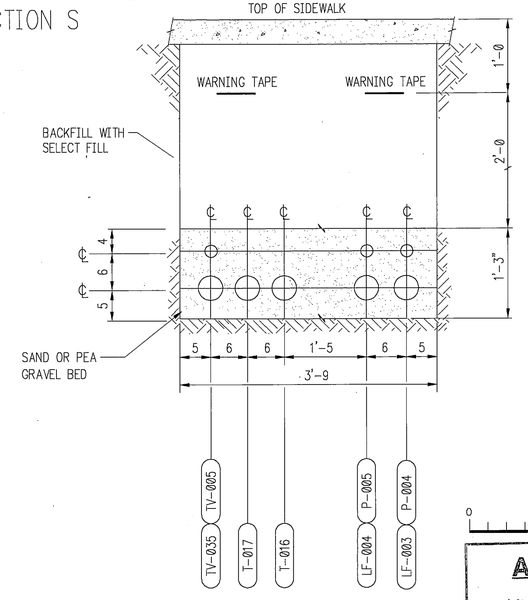
SECTION V
NOT USED



SECTION S



SECTION T



SECTION W

NOTES

1. FOR CONDUIT INSTALLATION NOTES SEE SH. 65
2. FOR CONDUIT SCHEDULE SEE SH. 66, 67, & 68
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

0 1 2 3 4 FT

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

P:\SIT\70606#92\PLANSET\#SHT70

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/18/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

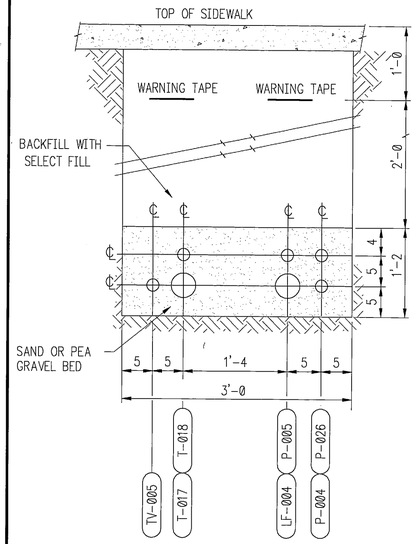
SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

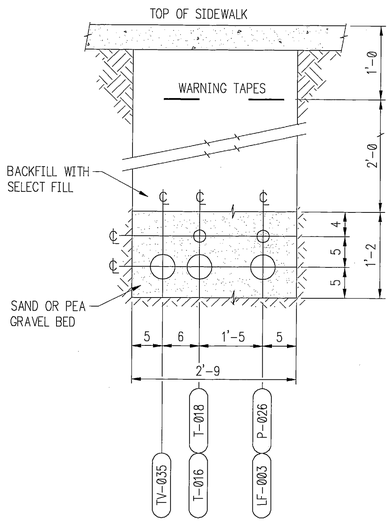
DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 70

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

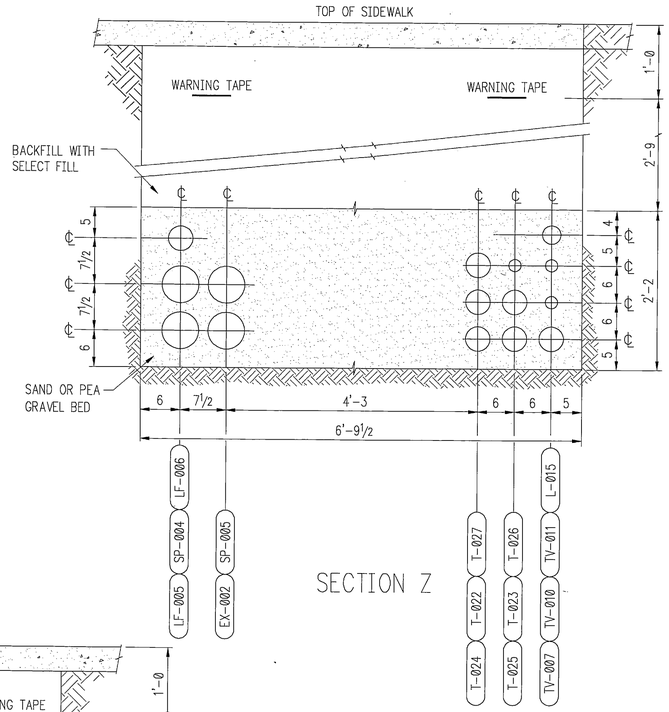
PROJECT DESIGNATION	YEAR
70606	1993



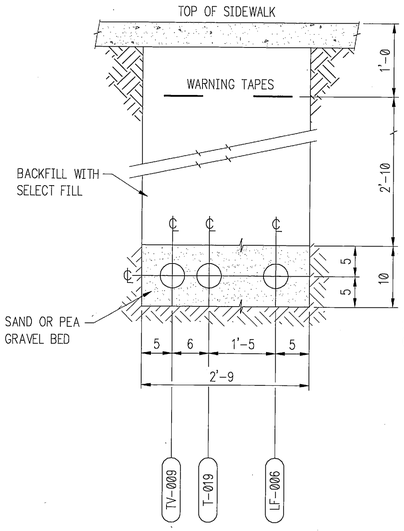
SECTION X



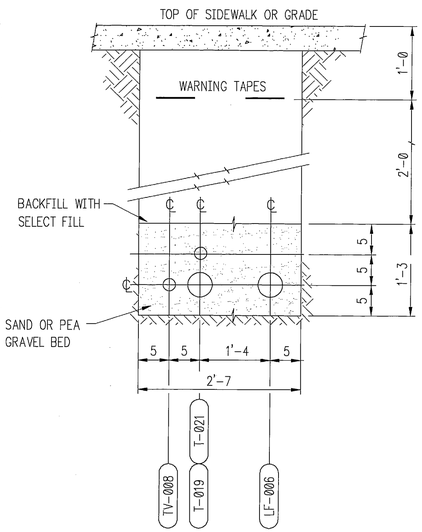
SECTION Y



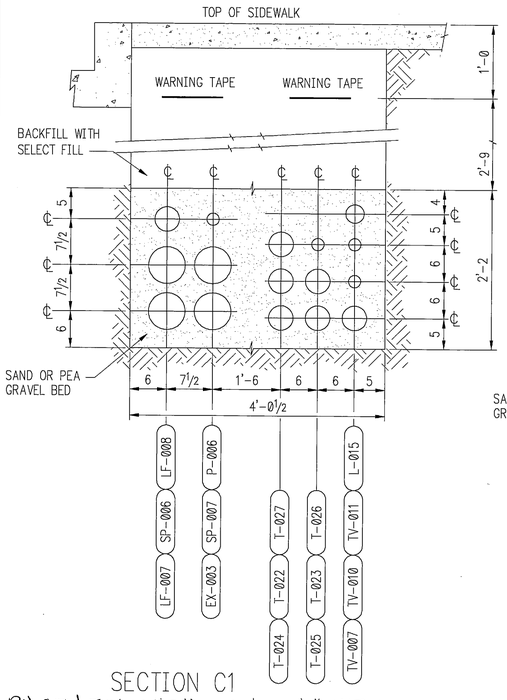
SECTION Z



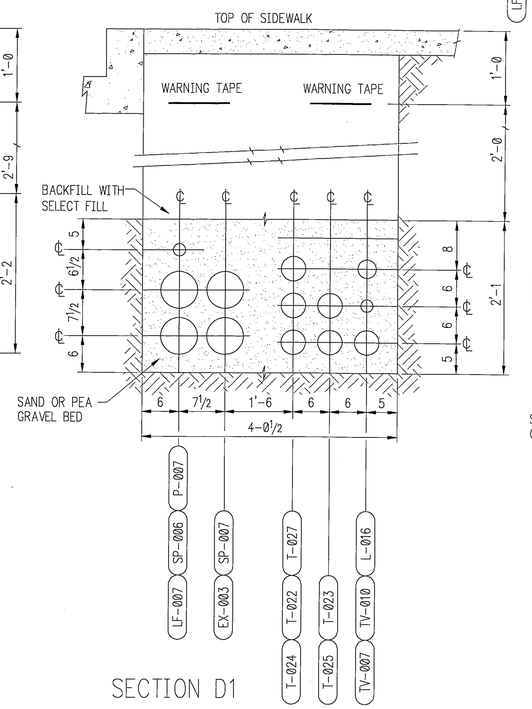
SECTION A1



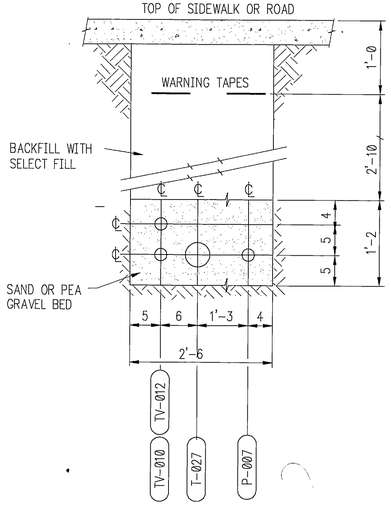
SECTION B1



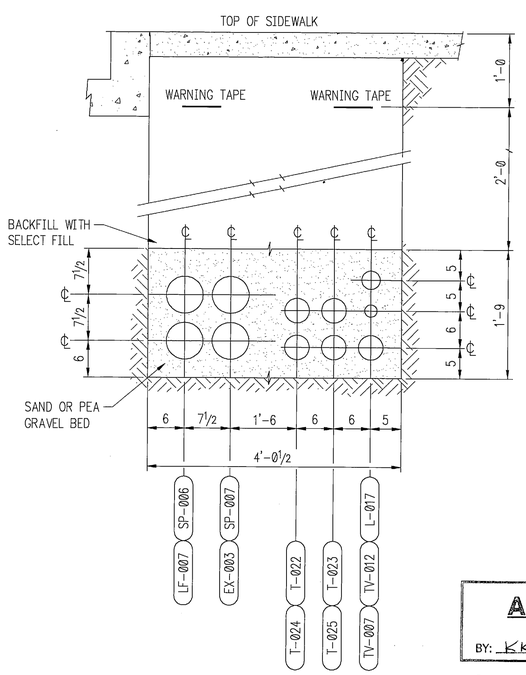
SECTION C1



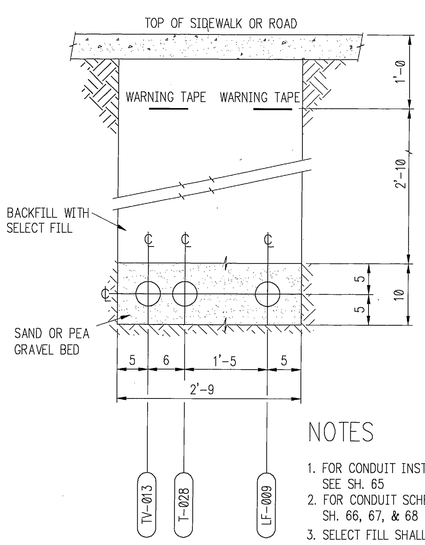
SECTION D1



SECTION E1



SECTION F1



SECTION G1

NOTES

1. FOR CONDUIT INSTALLATION NOTES SEE SH. 65
2. FOR CONDUIT SCHEDULE SEE SH. 66, 67, & 68
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

AS-BUILT
BY: KK DATE: 3/17/99

0 1 2 3 4 FT

P:\SIT\70606#94\PLANSET\#SHT71

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
NH 099—3(3) 70606
DUCTBANK SECTIONS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

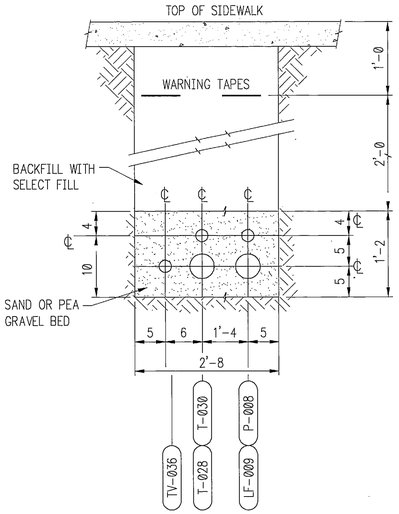
DESIGNED BY: C. WHIDDON—EBASCO
DRAWN BY: F. NADJMI—EBASCO
CHECKED BY: M. CARSON—NETS

PROJECT NO. 0886—203
DATE: FEBRUARY, 1994
SHEET 71

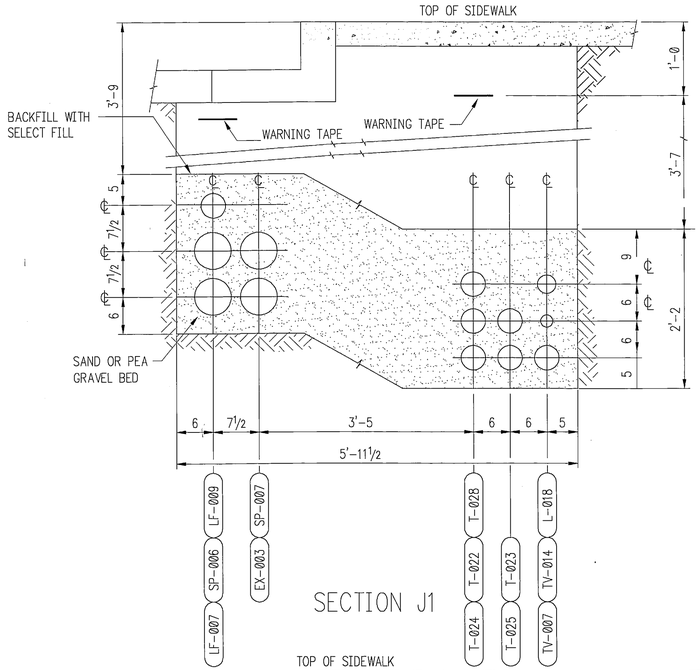
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

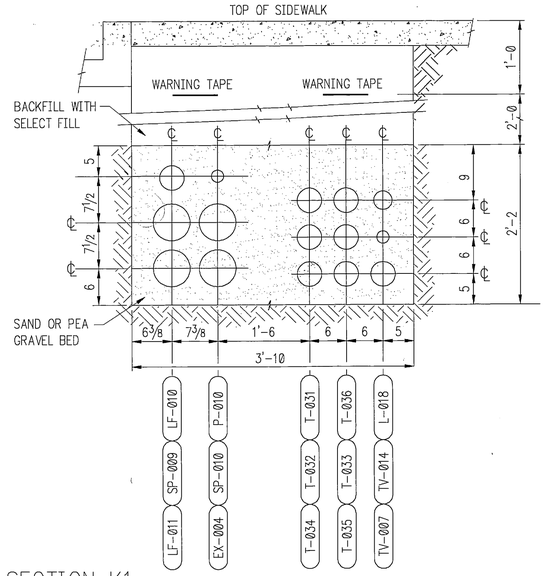
PROJECT DESIGNATION	YEAR
70606	1993



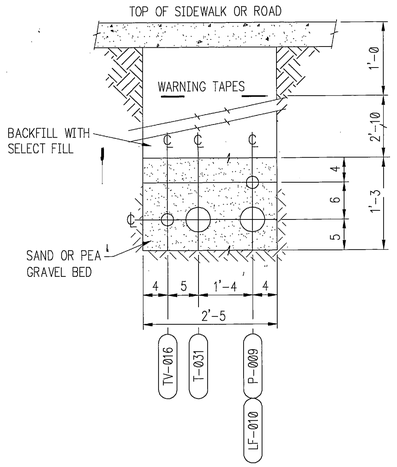
SECTION H1



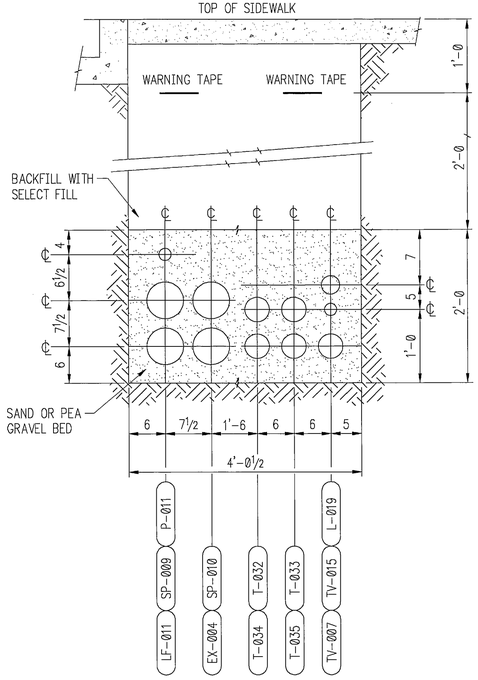
SECTION J1



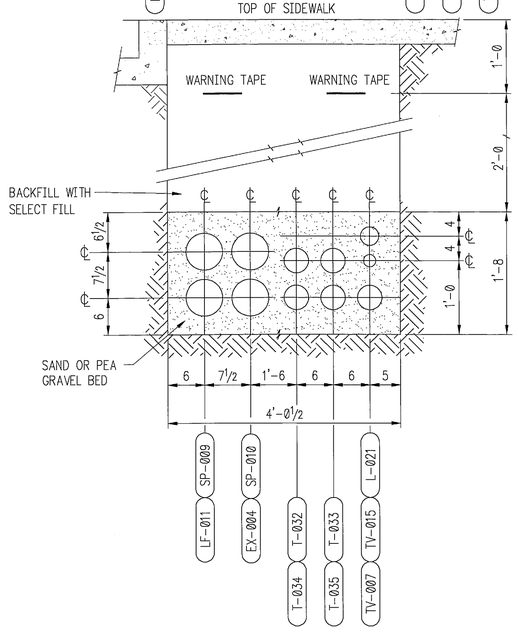
SECTION K1



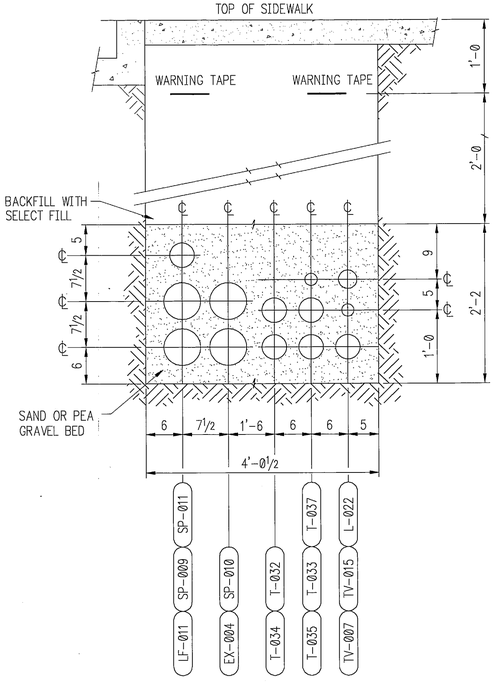
SECTION L1



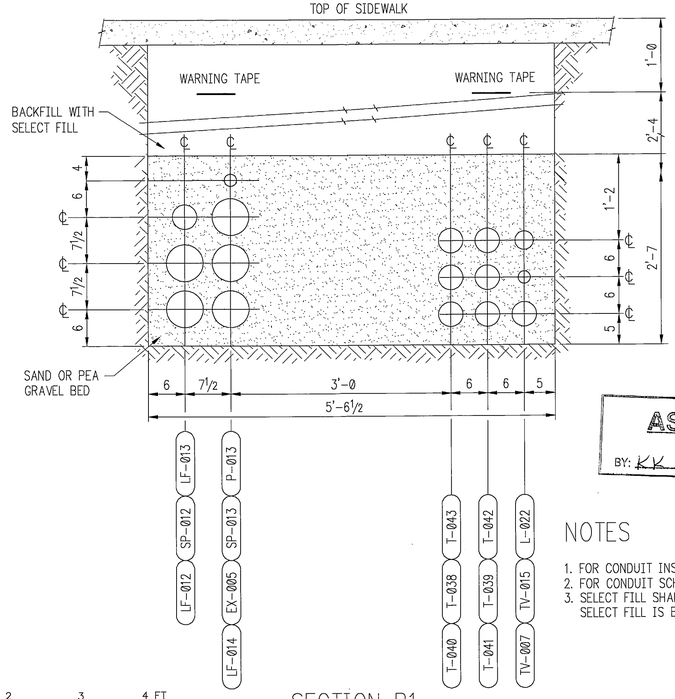
SECTION M1



SECTION N1



SECTION P1



SECTION R1

0 1 2 3 4 FT

AS-BUILT
BY: KK DATE: 3/17/99

NOTES

1. FOR CONDUIT INSTALLATION NOTES, SEE SHT 65.
2. FOR CONDUIT SCHEDULE, SEE SHT 66, 67, & 68.
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

P:\SIT\70606\94\PLANSET\#SHT 72

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

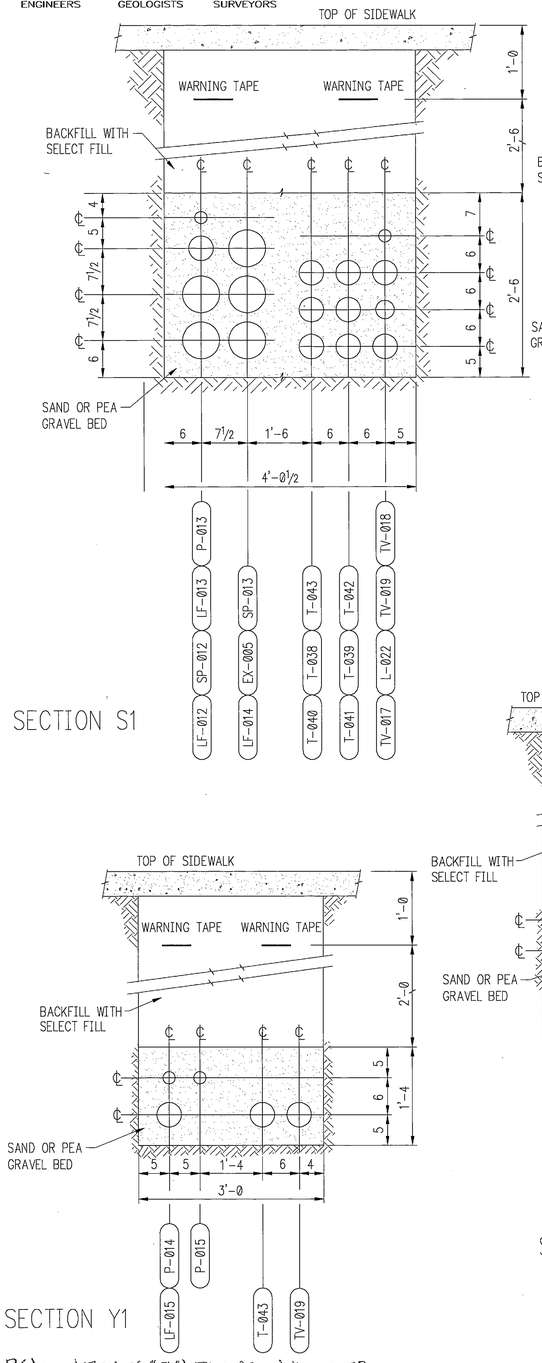
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 72

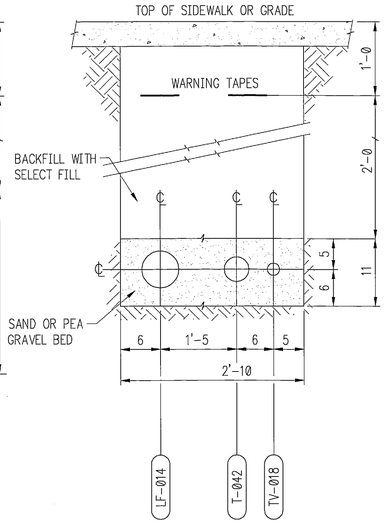
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

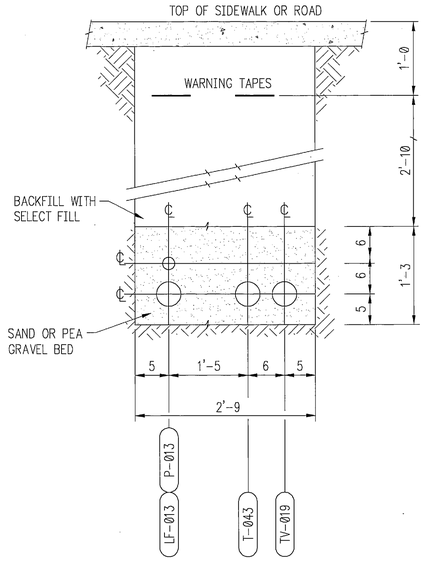
PROJECT DESIGNATION	YEAR
70606	1993



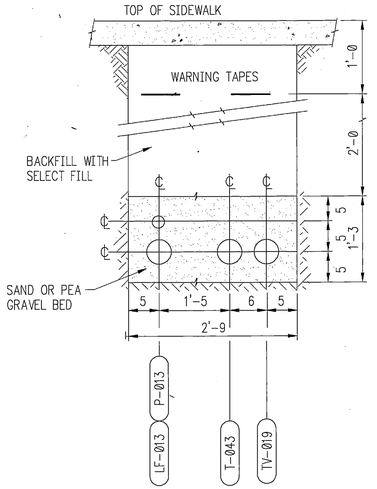
SECTION S1



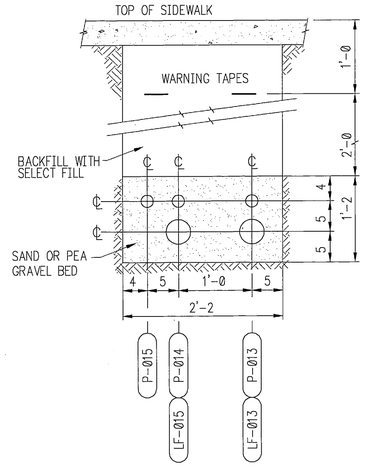
SECTION T1



SECTION U1

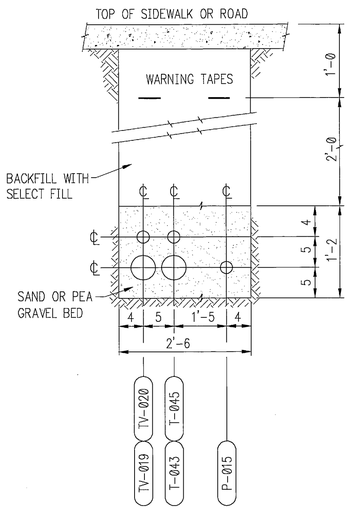


SECTION W1

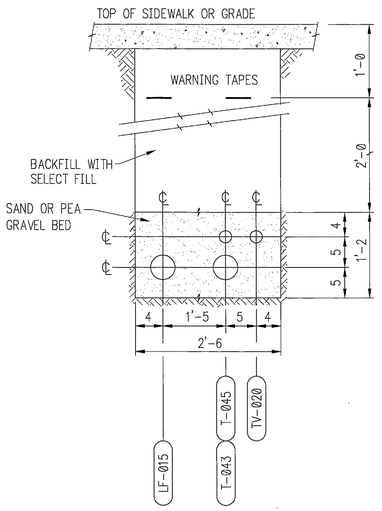


SECTION X1

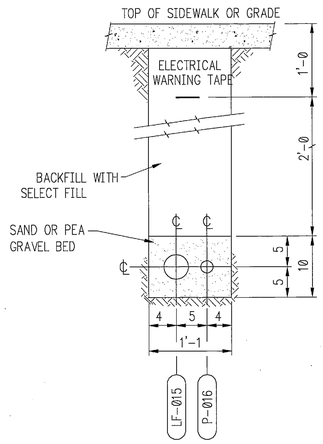
SECTION Y1



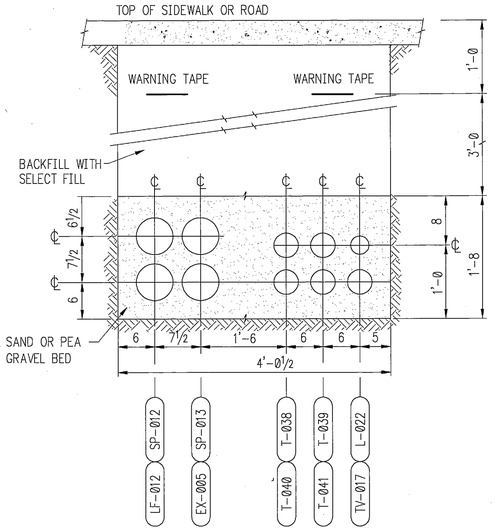
SECTION Z1



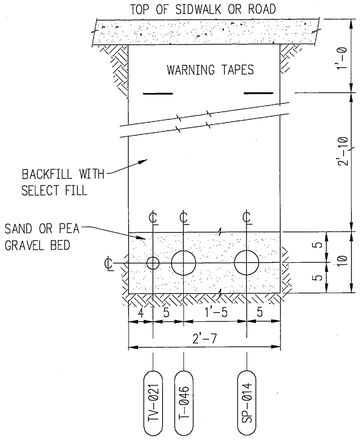
SECTION A2



SECTION B2



SECTION C2



SECTION D2

NOTES

1. FOR CONDUIT INSTALLATION NOTES SEE SH. 65
2. FOR CONDUIT SCHEDULE SEE SH. 66, 67 & 68
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

AS-BUILT
BY: KK DATE: 3/17/99

0 1 2 3 4 FT

P:\SIT\70606\99\PLANSET\SHT73

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	8/08/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

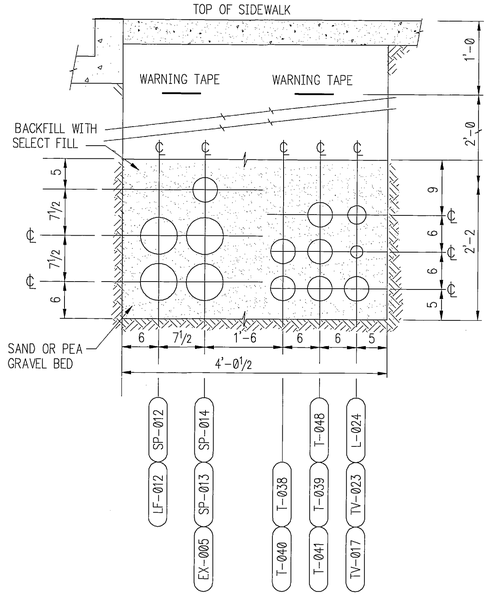
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 73

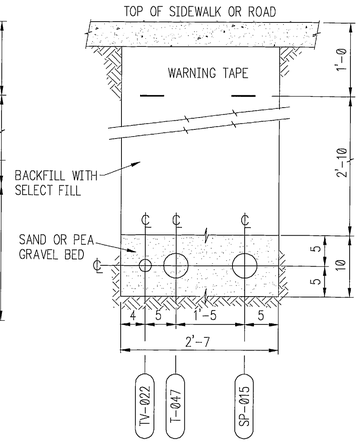
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

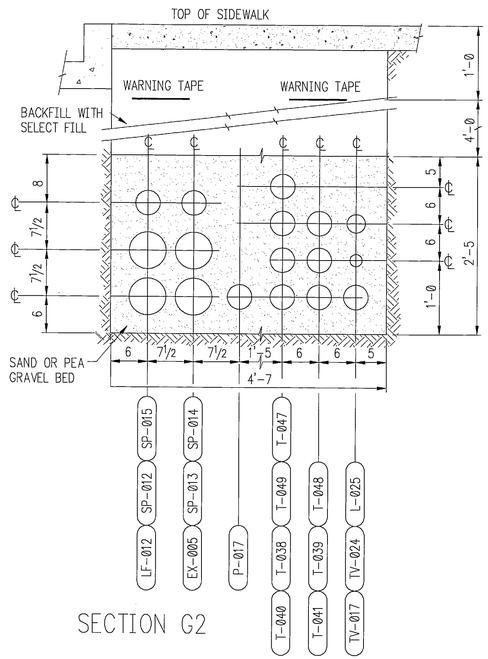
PROJECT DESIGNATION	YEAR
70606	1993



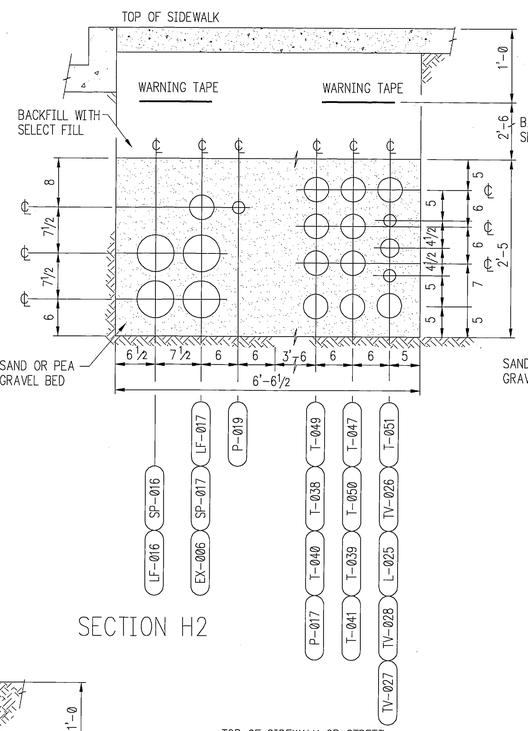
SECTION E2



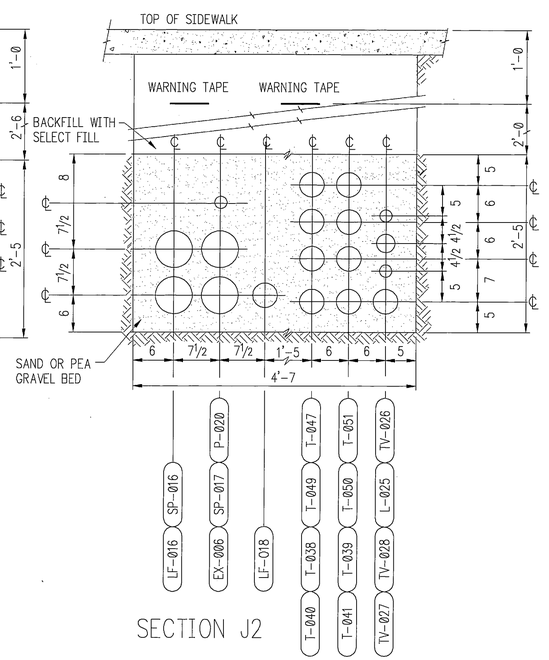
SECTION F2



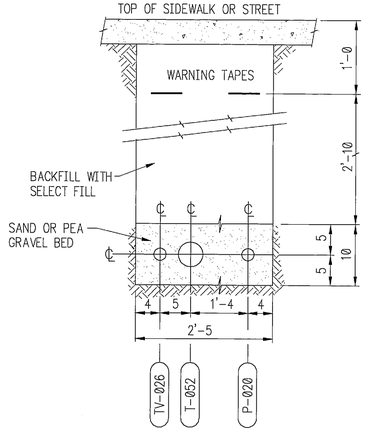
SECTION G2



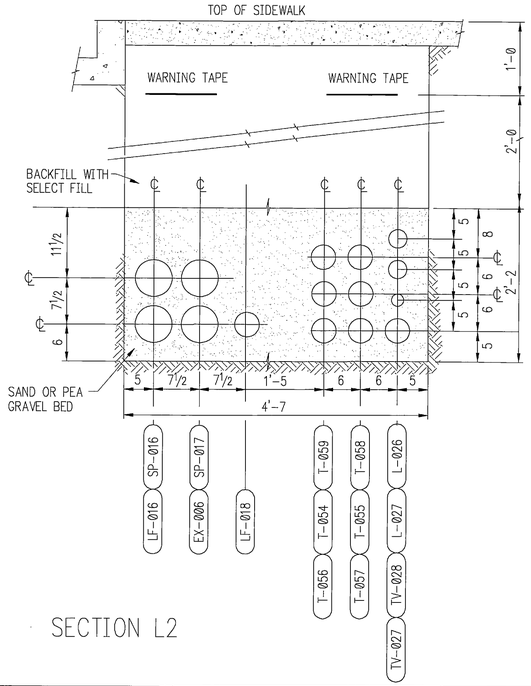
SECTION H2



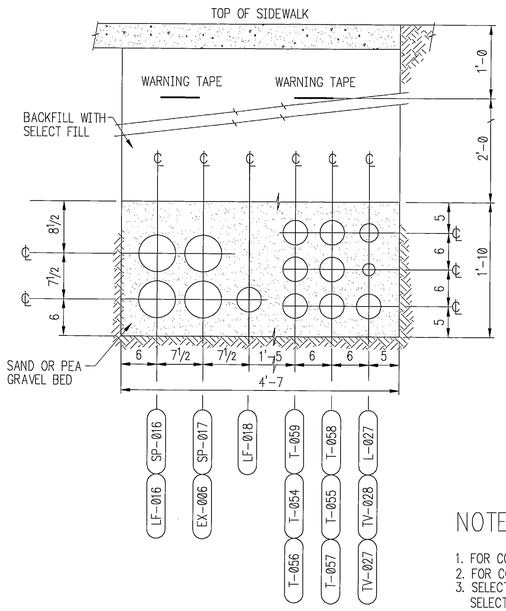
SECTION J2



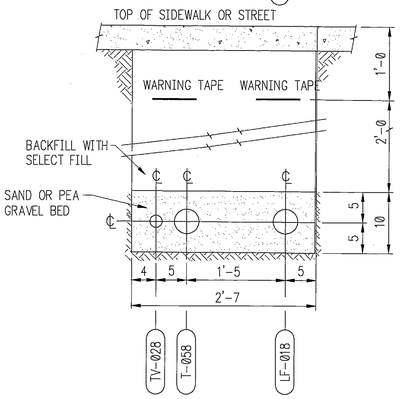
SECTION K2



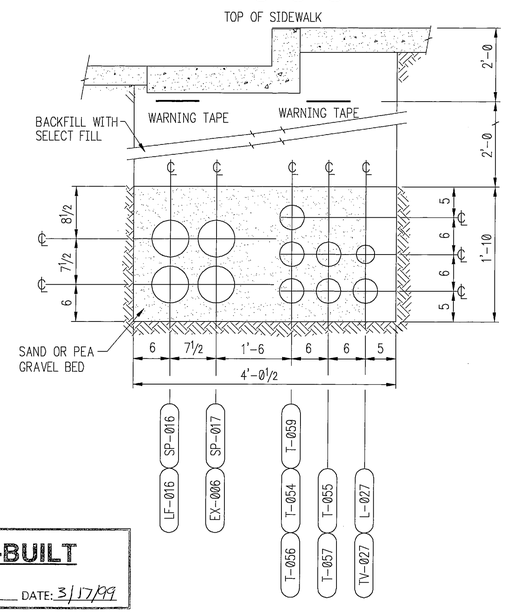
SECTION L2



SECTION M2



SECTION N2



SECTION P2

NOTES

1. FOR CONDUIT INSTALLATION NOTES SEE SH. 65
2. FOR CONDUIT SCHEDULE SEE SH. 66, 67 & 68
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

AS-BUILT
BY: KK DATE: 3/17/99

0 1 2 3 4 FT

P:\SIT\70606\94\PLNSET\#SHT 74

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

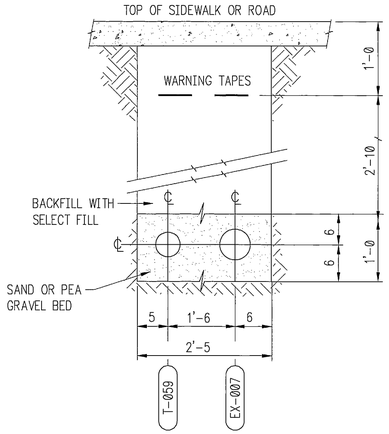
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 74

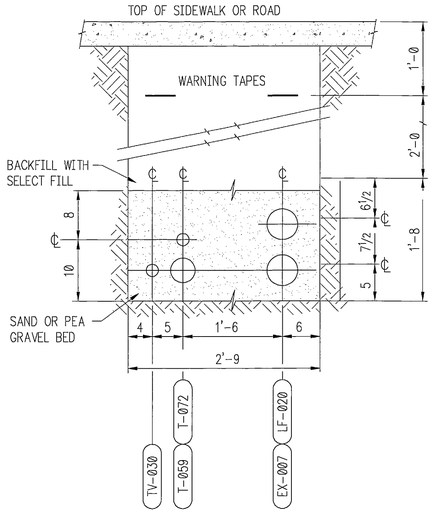
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

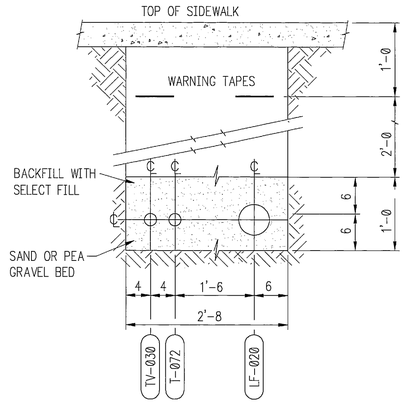
PROJECT DESIGNATION	YEAR
70606	1993



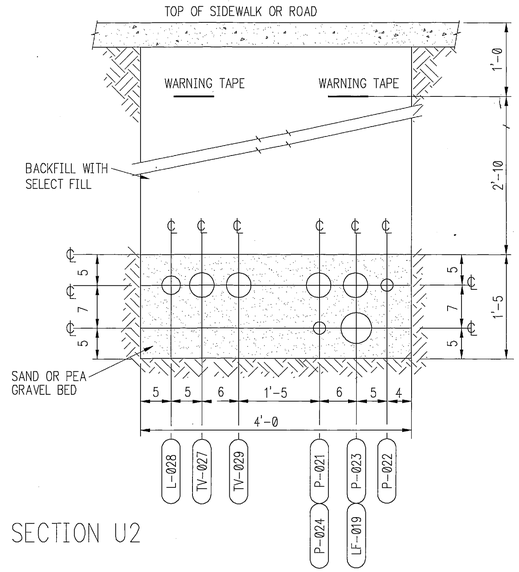
SECTION R2



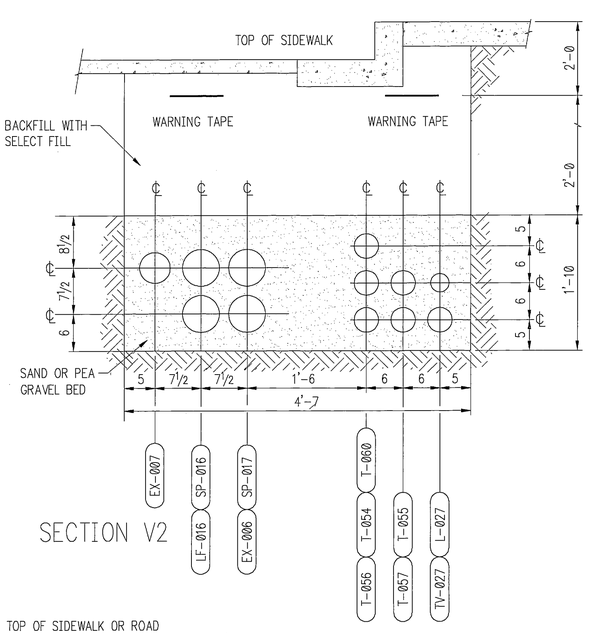
SECTION S2



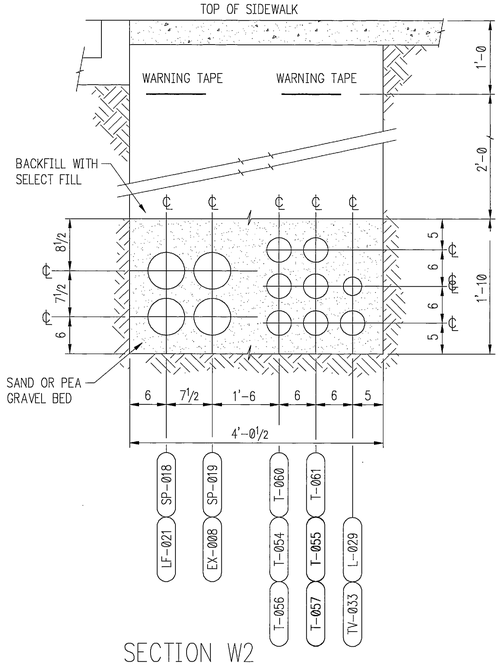
SECTION T2



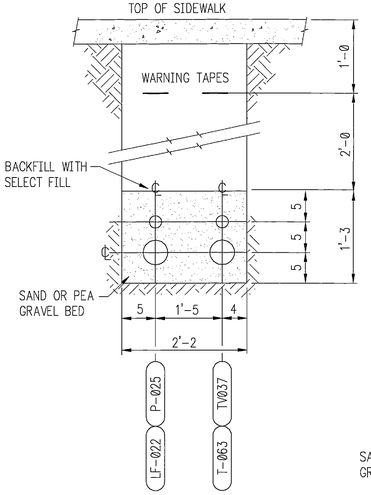
SECTION U2



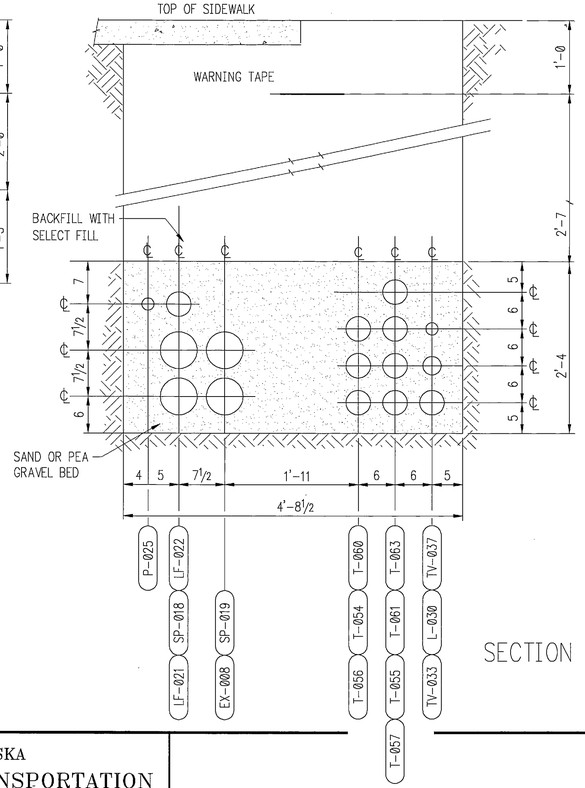
SECTION V2



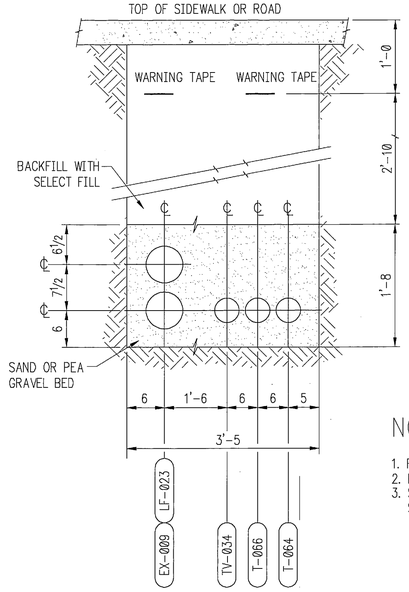
SECTION W2



SECTION X2



SECTION Y2



SECTION Z2

NOTES

1. FOR CONDUIT INSTALLATION NOTES, SEE SHT 65
2. FOR CONDUIT SCHEDULE, SEE SHT 66, 67, & 68.
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

AS-BUILT
BY: KK DATE: 3/17/99

0 1 2 3 4 FT

P:\SIT\70606\94\PLANSET\#SHT75

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

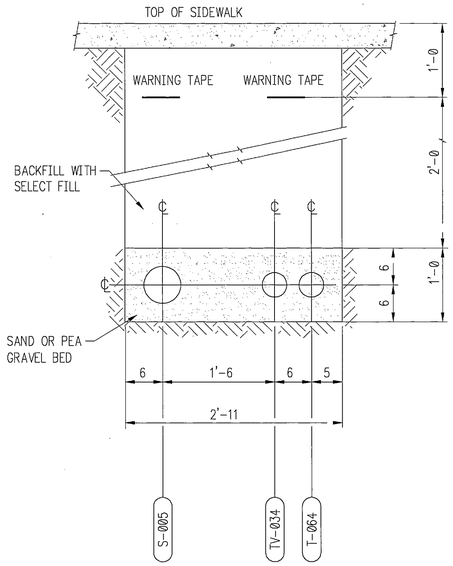
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: F. NADJMI-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 75

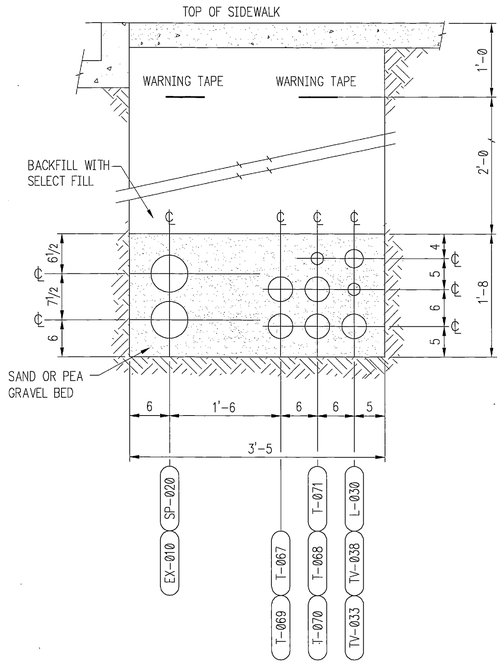
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

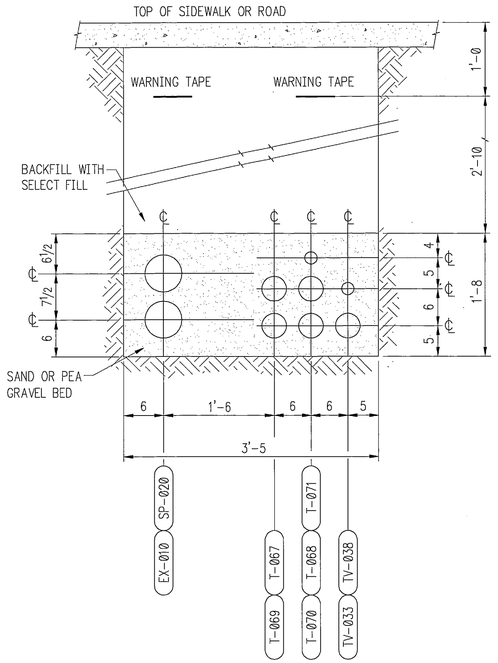
PROJECT DESIGNATION	YEAR
70606	1993



SECTION A3



SECTION B3



SECTION C3

NOTES

1. FOR CONDUIT INSTALLATION NOTES, SEE SHT 65.
2. FOR CONDUIT SCHEDULE, SEE SHT 66, 67, & 68.
3. SELECT FILL SHALL BE AS A MINIMUM, BORROW-TYPE B. SELECT FILL IS BELOW STRUCTURAL SECTION; SEE SHT 6.

AS-BUILT
BY: KK DATE: 3/17/99

0 1 2 3 4 FT

P:\SIT\70606\99\PLANSET\#SHT 76

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILTS
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
DUCTBANK SECTIONS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

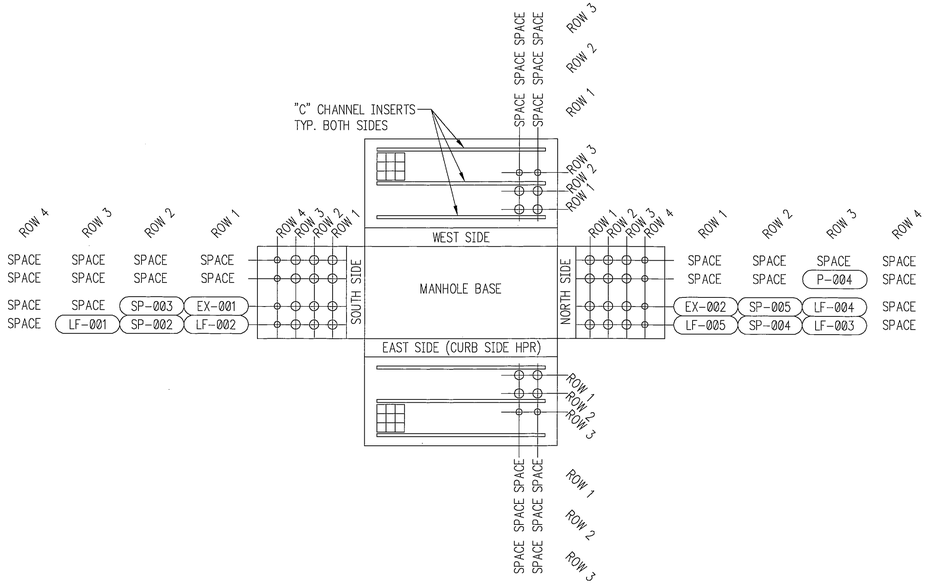
DESIGNED BY: C. WHIDDON-EBASCO
DRAWN BY: F. NADJMI-EBASCO
CHECKED BY: M. CARSON-NETS

PROJECT NO. 0886-203
DATE: FEBRUARY, 1994
SHEET 76

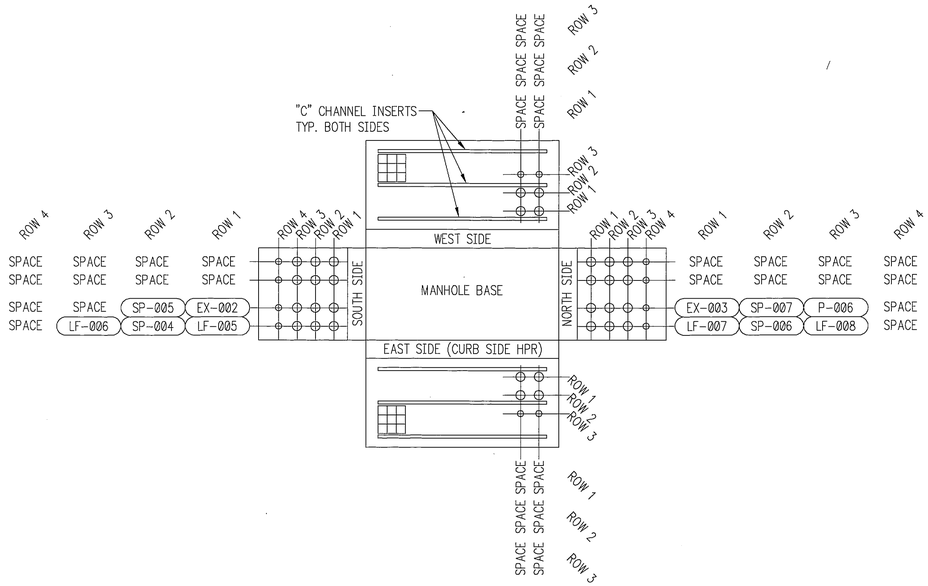
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

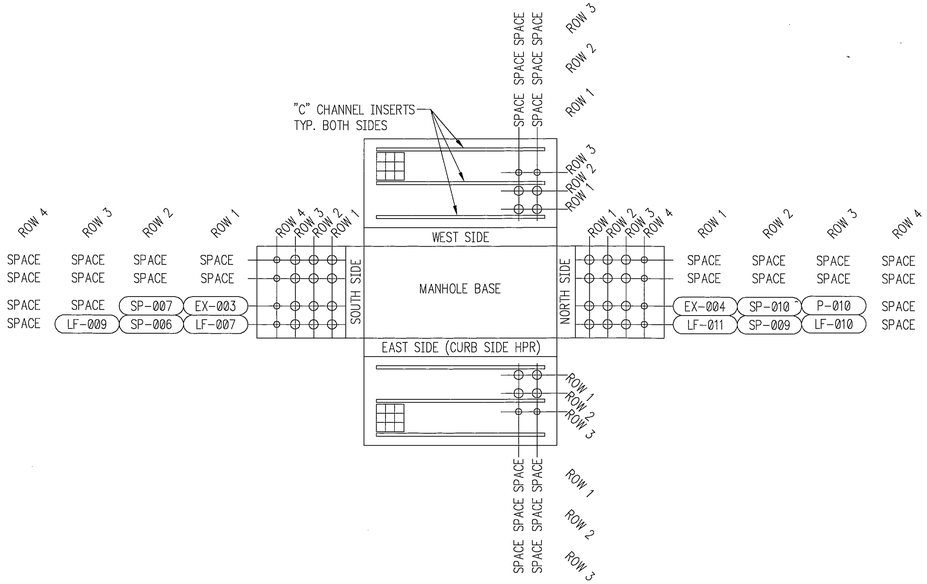
PROJECT DESIGNATION	YEAR
70606	1993



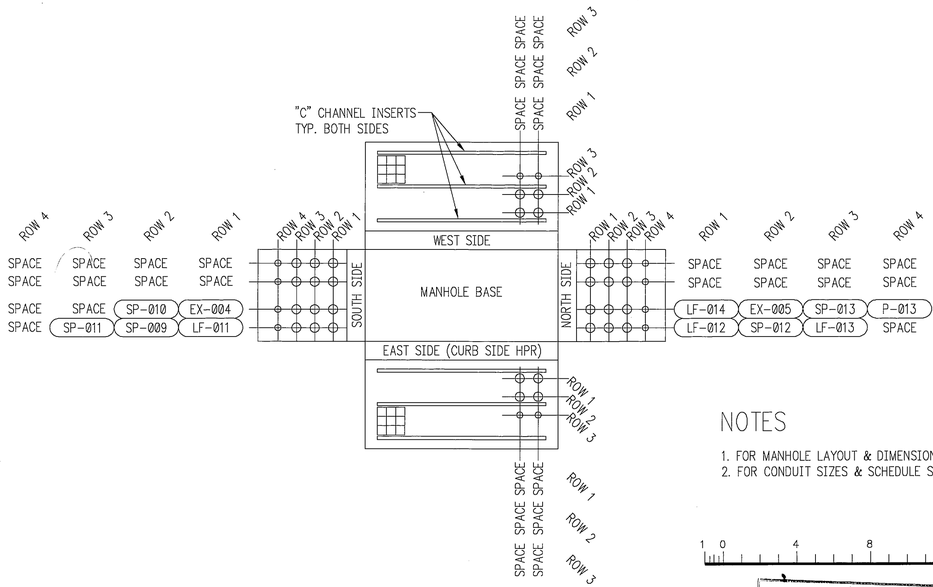
ELECTRICAL MANHOLE EM-1



ELECTRICAL MANHOLE EM-2



ELECTRICAL MANHOLE EM-3



ELECTRICAL MANHOLE EM-4

NOTES

1. FOR MANHOLE LAYOUT & DIMENSIONS SEE SH. 63.
2. FOR CONDUIT SIZES & SCHEDULE SEE SH. 66, 67, & 68.

1 0 4 8 12 16 FT

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE-5604

P:\SIT\70606\94\PLANSET\#SHT77

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

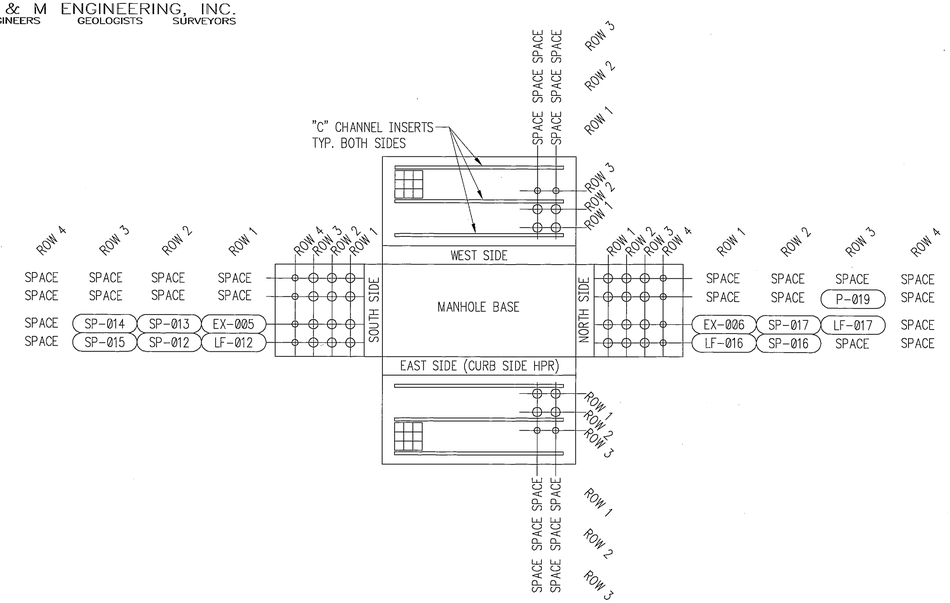
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

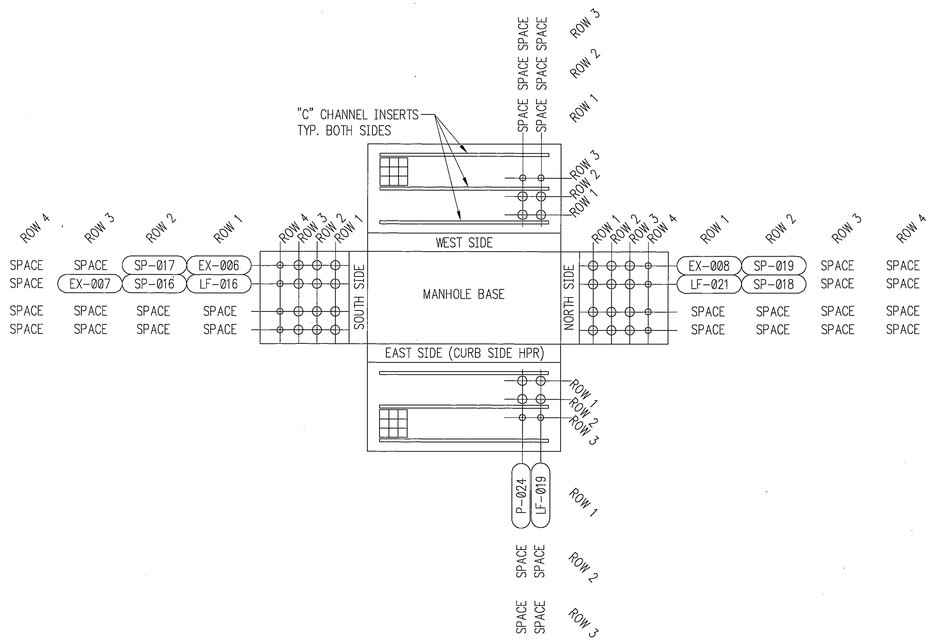
SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL MANHOLE DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

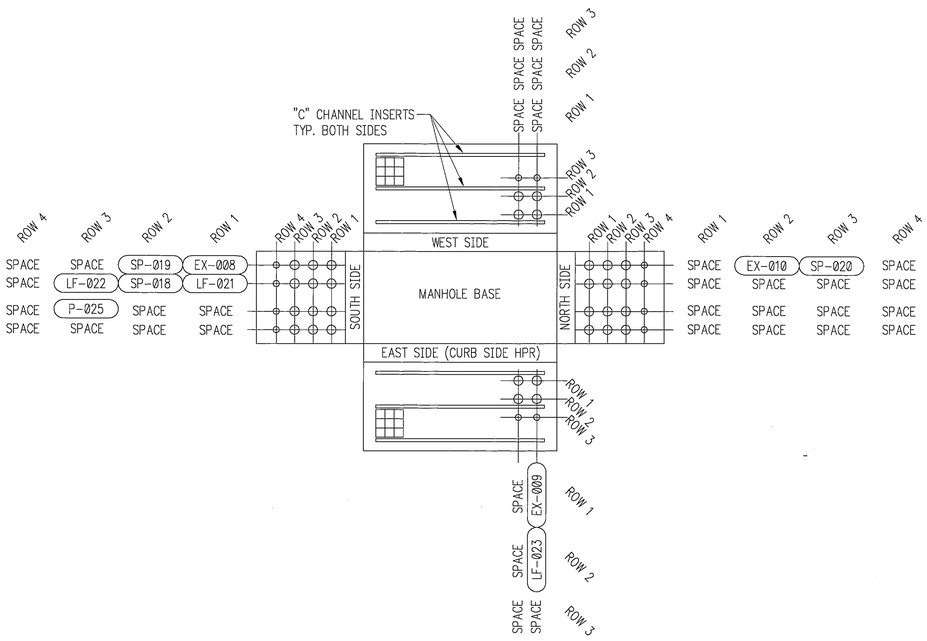
DESIGNED BY: C. WHIDDON-EBASCO	PROJECT NO. 0886-203
DRAWN BY: J. CHILDRESS-EBASCO	DATE: FEBRUARY, 1994
CHECKED BY: M. CARSON-NETS	SHEET 77



ELECTRICAL MANHOLE EM-5



ELECTRICAL MANHOLE EM-6



ELECTRICAL MANHOLE EM-7

ELECTRICAL NO	MANHOLE STATION	SCHEDULE OFFSET
1	39 + 30	20.5' L
2	42 + 23	26' L
3	46 + 13	26' L
4	51 + 06	26' L
5	56 + 35	26' L
6	59 + 83	26' L
7	62 + 10	26' L

NOTES

1. FOR MANHOLE LAYOUT & DIMENSIONS SEE SH. 63.
2. FOR CONDUIT SIZES & SCHEDULE SEE SH. 66, 67, & 68.

1 0 4 8 12 16 FT

AS-BUILT
BY: K.K. DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SHT78

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL MANHOLE DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: C. WHIDDON-EBASCO
DRAWN BY: J. CHILDRESS-EBASCO
CHECKED BY: M. CARSON-NETS

PROJECT NO. 0886-203
DATE: FEBRUARY, 1994
SHEET 78

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

ELECTRICAL PULLBOX SCHEDULE

NUMBER	STATION	OFFSET	GENERAL LOCATION	VAULT TYPE	VAULT MODEL	JUNCTIONS	RATING	CONDUCTORS	CONDUITS	DESTINATION
EP 1	26+30	20.5' L	HALIBUT PT. ROAD	PRIMARY	UV 506	NONE	–	NONE	4" PVC (SCHD 80)	ERLER ST. POLE
EP 2	35+06	26.5' R	HALIBUT PT. ROAD	SECONDARY	UV (CARSON) 1730	3/2 POSITION	–	SOURCE 2-2/0 Cu, 1-1 Cu TAP 2-2/0 Cu, 1-1 Cu	2" PVC (SCHD 80) 2" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 1 502 HOUSE
EP 3	37+07	26.5' R	HALIBUT PT. ROAD	SECONDARY	UV (CARSON) 1730	3/3 POSITION	–	SOURCE 2 -250, 1-3/0 Cu TAP 2-2/0 Cu, 1-1 Cu TAP 2-4/0 Cu, 1-2/0 Cu	4" PVC (SCHD 80) 2" PVC (SCHD 80) 3" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 1 506 HOUSE 508 HOUSE
EP 4	43+62	32' R	HALIBUT PT. ROAD	SECONDARY	UV (CARSON) 1730	3/3 POSITION	–	SOURCE-2-4/0 Cu, 1-2/0 Cu TAP 2-2/0 Cu, 1-1 Cu TAP 2-2/0 Cu, 1-1/0 Cu	2" PVC (SCHD 80) 2" PVC (SCHD 80) 2" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 3 602 HOUSE 604 HOUSE
EP 5	D LINE 1 + 40	27' L	N. LAKEVIEW DRIVE	SECONDARY	UV (CARSON) 1730	3/2 POSITION	–	SOURCE 2-4/0 Cu, 1-2/0 Cu TAP 2-2/0 Cu, 1-1 Cu TAP 2-2/0 Cu, 1-1 Cu	2" PVC (SCHD 80) 2" PVC (SCHD 80) 2" PVC (SCHD 80)	POWER POLE 4 240 N. LAKEVIEW 239 N. LAKEVIEW
EP 6	46+81	32' L	HALIBUT PT. ROAD	SECONDARY	UV (CARSON) 1730	3/3 POSITION	–	SOURCE 2-2 Cu, 1-4 Cu TAP 2-2 Cu, 1-1 Cu TAP 2-2 Cu, 1-1 Cu	2" PVC (SCHD 80) 2" PVC (SCHD 80) 2" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 4 BUSINESS SIGN BUSINESS SIGN
EP 7	–	–	MOLLER DRIVE	SECONDARY	UV (CARSON) 1730	3/3 POSITION	–	SOURCE 2-4/0 Cu, 1-2/0 Cu TAP 2 /2/0 Cu, 1-1 Cu TAP 2 /2/0 Cu, 1-1 Cu	2" PVC (SCHD 80) 2" PVC (SCHD 80) 2" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 5 201 HOUSE 203 HOUSE
EP 8	55+45	32' L	HALIBUT PT. ROAD	SECONDARY	UV (CARSON) 1730	3/3 POSITION	–	SOURCE 2-500 Cu, 1-350 Cu TAP 2-500 Cu, 1-350 Cu TAP 2- 2 Cu, 1-4 Cu	4" PVC (SCHD 80) 4" PVC (SCHD 80) 2" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 7 DEWEYS/APARTMENTS PARK BUILDING
EP 9	56+57	32.5' L	HALIBUT PT. ROAD	PRIMARY	UV 660	3/4 POSITION	200A	SOURCE 3- 2/0 Cu 15Kv TAP 1-2 Cu 15 Kv TAP 3-2 Cu Kv TAP 3-2 Cu Kv	5" PVC (SCHD 80) 4" PVC (SCHD 80) 4" PVC (SCHD 80) 4" PVC (SCHD 80)	ELECTRICAL MANHOLE 5 ELECTRICAL TRANSFORMER 7 ELECTRICAL TRANSFORMER 8 ELECTRICAL PULLBOX 10
EP 10	58+43	62' L	HARDWARE STORE	PRIMARY	UV 506	3/2 POSITION	200A	SOURCE 3-2 Cu Kv TAP 3-2 Al (EXISTING) 15Kv	4" PVC (SCHD 80) 4" PVC (SCHD 80)	ELECTRICAL PULLBOX 9 STORE TRANSFORMER
EP 11	59+93	31' R	HALIBUT PT. ROAD	PRIMARY	UV 660	3/4 POSITION	200A	SOURCE 3-2/0 Cu 15Kv TAP 1-2 Cu 15Kv TAP 3-2 Cu 15Kv TAP 3-2/0 Cu 15Kv	5" PVC (SCHD 80) 4" PVC (SCHD 80) 4" PVC (SCHD 80) 5" PVC (SCHD 80)	ELECTRICAL MANHOLE 6 ELECTRICAL TRANSFORMER 9 ELECTRICAL TRANSFORMER 10 BRADY STREET POLE (PP5)
EP 12	59+64	32' L	HALIBUT PT. ROAD	SECONDARY	UV (CARSON) 1730	11/2 POSITION (PULL & STUFF IF POSSIBLE)	–	SOURCE 2-500 Cu, 1-350 Cu TAP 2-500 Cu, 1-350 Cu SOURCE 3-2/0 Cu, 1-1 Cu TAP 3-2/0 Cu, 1-1 Cu SOURCE 3-250 Cu, 1-3/0 Cu TAP 3-250 Cu, 1-3/0 Cu	4" PVC (SCHD 80) 4" PVC (SCHD 80) 2" PVC (SCHD 80) 2" PVC (SCHD 80) 4" PVC (SCHD 80) 4" PVC (SCHD 80)	ELECTRICAL TRANSFORMER 9 APARTMENTS/DMV ELECTRICAL TRANSFORMER 10 APARTMENTS/DMV ELECTRICAL TRANSFORMER 10 SEARS STORE

NOTES:

1. SECONDARY PULL BOXES SHALL BE UTILITY VAULT (CARSON) SERIES 1730 HDPE WITH 17 1/2" X 30 1/2" OPENING AND L BOLT LOCKING COVER RATED FOR LIGHT TRAFFIC. COVER SHALL BE MARKED "ELECTRIC."

2. PRIMARY PULL BOXES FOR SINGLE PHASE OR TWO-WAY THREE PHASE CIRCUITS SHALL BE UTILITY VAULT 506 PRECAST CONCRETE VAULT WITH OUTSIDE DIMENSIONS OF 4'-8" X 4'-8" X 6'-0". COVER SHALL BE UTILITY VAULT 55-332P GALVANIZED STEEL LOCKING TYPE WITH SAND BLASTED NON-SKID SURFACE. THE FOLLOWING FEATURES SHALL BE INCLUDED:
   A) 3/4" GALVANIZED PULLING EYES SHALL BE EMBEDDED IN EACH BOTTOM CORNER (4)
   B) 4000# BURKE H.D. GALVANIZED PULLING INSERTS SHALL BE EMBEDDED IN EACH CORNER (4)
   C) TERMADUCTS FOR 4" PVC SCHD80 CONDUITS SHALL BE LOCATED ALONG THE BOTTOM PORTION OF EACH WALL (FOUR PER WALL)
   D) 36" H.D. GALVANIZED "C" CHANNELS SHALL BE EMBEDDED IN EACH END WALL (2); 63" H.D. GALVANIZED "C" CHANNELS SHALL BE EMBEDDED IN EACH SIDE WALL (2)
   E) GALVANIZED DIAMOND PLATE LID WITH PENTAHEAD LATCH AND BRASS MARKER PLATE SHALL BE SUPPLIED

3. PRIMARY PULL BOXES FOR THREE AND FOUR WAY THREE PHASE CIRCUITS SHALL BE UTILITY VAULT 660 PRECAST CONCRETE VAULT WITH OUTSIDE DIMENSIONS OF 4'-0" X 6'-0" X 6'-0". COVER SHALL BE UTILITY VAULT 64-2-332P GALVANIZED STEEL LOCKING TYPE WITH SAND BLASTED NON-SKID SURFACE. THE FOLLOWING FEATURES SHALL BE INCULDED:
   A) 3/4" GALVANIZED PULLING EYES SHALL BE EMBEDDED IN EACH BOTTOM CORNER (4)
   B) 4000# BURKE H.D. GALVANIZED PULLING INSERTS SHALL BE EMBEDDED IN EACH CORNER (4)
   C) TERMADUCTS FOR 6" PVC SCHD 80 CONDUITS SHALL BE LOCATED ALONG THE BOTTOM PORTION OF EACH WALL (THREE PER WALL)
   D) 36" H.D. GALVANIZED "C" CHANNEL SHALL BE EMBEDDED IN EACH END WALL (2); 63" H.D. GALVANIZED "C" CHANNEL SHALL BE EMBEDDED IN EACH SIDE WALL (2)
   E) GALVANIZED DIAMOND PLATE LIDS (2)WITH PENTAHEAD LATCHES AND BRASS MARKER PLATE SHALL BE SUPPLIED

4. INSTALL JUNCTIONS ONLY ON THREE WALLS SO THAT OPERATOR DOES NOT STAND ON METAL COVER DURING SWITCHING OPERATIONS. OFFSET SIDE JUNCTIONS TO MAXIMIZE WORKING SPACE.

5. PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. ALSO, LOOP CABLES TO AVOID STRESSING ELBOW CONNECTION AND TO ALLOW REPLACEMENT OF ELBOWS.

6. PULL BOXES SHALL BE SET ON A NFS GRAVEL BASE OF DEPTH SHOWN. COMPACT BASE TO 95% IN 6" LIFTS. DO NOT REMOVE PULL BOX SUMP.

7. JUNCTIONS SHALL BE INSTALLED IN "C" CHANNELS USING UNISTRUT CHANNEL NUTS AND BOLTS.

8. JUNCTIONS AND CABLE CONCENTRIC NEUTRALS SHALL BE GROUNDED TO VAULT LOOP AND EXTERIOR GROUND ROD.

9. GLUE PVC CONDUIT INTO PLASTIC ENDS CAST INTO WALL TO REDUCE SEEPAGE.

10. IF CONCRETE ANCHORS ARE NEEDED, THEY SHALL ONLY BE INSTALLED IN VAULT RIBS.

11. ELASTIMOLD OR COOPER ELBOW CONNECTORS MAY BE USED, OR OTHER MANUFACTURERS APPROVED BY THE UTILTY.

12. SEE SHEET 101 FOR PULL BOX SPACING.

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\94\PLANSET\#SHT 79

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS Built
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(30 70606
ELECTRICAL PULLBOX SCHEDULE

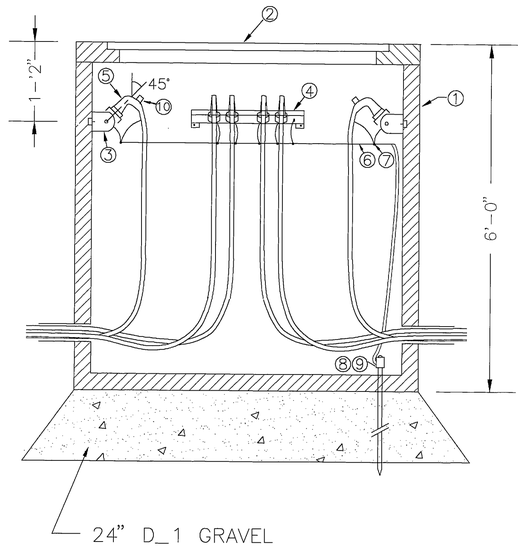
NEIS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

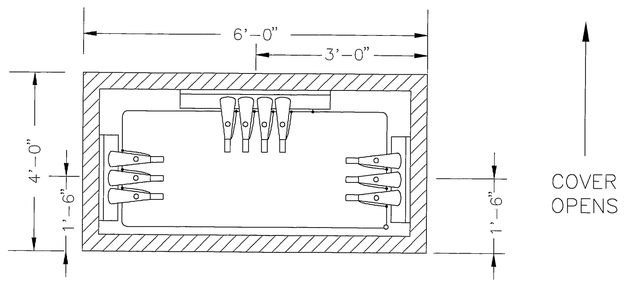
DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	79

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

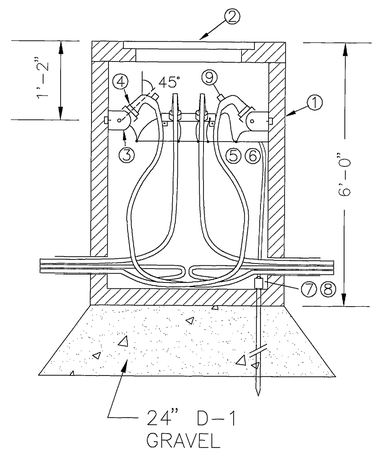
PRIMARY PULLBOX DETAIL
UV 660 TYPE
4'-0" x 6'-0" x 6'-0"

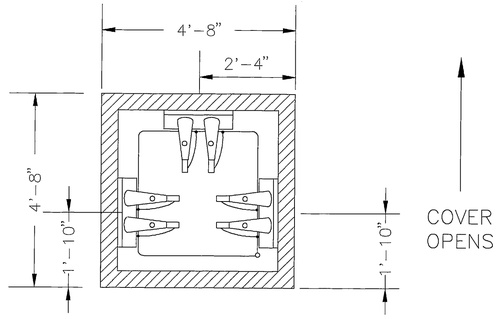




ITEM	QTY	MATERIAL
1	1	PRIMARY PULLBOX–UV 660
2	1	PULLBOX COVER–INCIDENTAL TRAFFIC UV 64–332P
3	2	3 POSITION COOPER LOADBREAK JUNCTIONS W/SS BRACKETS
4	1	4 POSITION COOPER LOADBREAK JUNCTIONS W/SS BRACKETS
5	10	200A LOADBREAK ELBOWS W/TEST POINTS
6	AS REQ'D	#2/0 CU GROUND LOOP
7	AS REQ'D	GROUND WIRE CONNECTORS
8	1	GROUND ROD CLAMP
9	1	5/8"x10'–0" CW GROUND ROD
10	7	FAULT INDICATORS, COOPER TPR–J

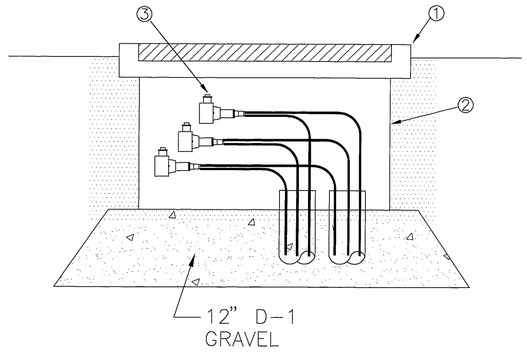
PRIMARY PULLBOX DETAIL
UV 506 TYPE
4'-8" x 4'-8" x 6'-0"





ITEM	QTY	MATERIAL
1	1	PRIMARY PULLBOX–UV 506
2	1	PULLBOX COVER–INCIDENTAL TRAFFIC UV 55–332P
3	3	2 POSITION COOPER LOAD BREAK JUNCTIONS WITH SS BRACKETS
4	6	200A LOAD BREAK ELBOWS EL 166LRR W/TEST POINTS
5	AS REQ'D	#2/0 CU GROUND LOOP
6	AS REQ'D	GROUND WIRE CONNECTORS
7	1	GROUND ROD CLAMP
8	1	5/8"x10'–0" CW GROUND ROD
9	3	FAULT INDICATORS TPR–J

SECONDARY PULLBOX DETAIL
UV (CARSON) 1730 TYPE
18" x 27-1/4" x 40-1/2"



ITEM	QTY	MATERIAL
1	1	SECONDARY PULLBOX–INCIDENTAL TRAFFIC UV (CARSON) 1730
2	1	PULLBOX COVER–INCIDENTAL TRAFFIC UV (CARSON) 1730
3	AS REQ'D	BUSSBAR, SUBMERSIBLE SECONDARY 4 POSITION, HOMAC UH500 OR EQUIV.

AS-BUILT
BY: K.K. DATE: 3/17/99

P:\SIT\70606894\PLANSET\#SHT80

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606

ELECTRICAL PULLBOX DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886–203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 80

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

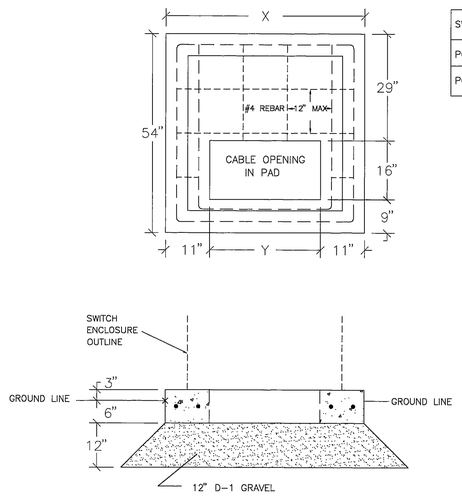
PAD MOUNTED ELECTRICAL SWITCH SCHEDULE

NUMBER	STATION	OFFSET	LOCATION	TYPE	RATING	TYPE	CONDUCTORS	CONDUITS	REMARKS
ES 1	A 1 + 25	18' R	MARINE STREET	JOSLYN PG6-21-15	600A	TWO WAY 1 SWITCHED	SOURCE – 3/500 KCM Cu. LOAD – 3/500 KCM Cu.	6" SCHD 80 PVC – PP1 6" SCHD 80 PVC – EM1	LOCAL FEEDER DISCONNECT SWITCH
ES 2	A 1 + 20	18' R	MARINE STREET	JOSLYN PG6-21-15	600A	TWO WAY 1 SWITCHED	SOURCE – 3/500 KCM Cu. LOAD – 3/500 KCM Cu.	6" SCHD 80 PVC – PP1 6" SCHD 80 PVC – EM1	EXPRESS FEEDER DISCONNECT SWITCH
ES 3	E 0 + 98	27' L	KATLIAN STREET	JOSLYN PG6-21-15	600A	TWO WAY 1 SWITCHED	SOURCE – 3/500 KCM Cu. LOAD – 3/500 KCM Cu.	6" SCHD 80 PVC – PP 3081 6" SCHD 80 PVC – EM4	KATLIAN STREET TIE SWITCH
ES 4	G 1 + 13	28' L	BRADY STREET	JOSLYN PG6-32-15	200A	THREE WAY 2 SWITCHED	SOURCE – 3/2/0 Cu. SOURCE – 3/2/0 Cu. LOAD – 3/2/0 Cu.	5" SCHD 80 PVC – EM6 5" SCHD 80 PVC – PB11 5" SCHD 80 PVC – PP5	HOSPITAL FEEDER TRANSFER SWITCH
ES 5	62+12	32' R	PETERSON STREET	JOSLYN PG6-32-15	600A	THREE WAY 2 SWITCHED	SOURCE – 3/500 KCM Cu. SOURCE – 3/500 KCM Cu. LOAD – 3/500 KCM Cu.	6" SCHD 80 PVC – EMH7 6" SCHD 80 PVC – EMH7 6" SCHD 80 PVC – PP 1141	LOCAL/EXPRESS FEEDER TRANSFER SWITCH
ES 6	64+35	40' R	HALIBUT POINT ROAD	JOSLYN PG 6-21-15	600A	TWO WAY 1 SWITCHED	SOURCE – 3/500 KCM Cu. LOAD – 3/500 KCM Cu.	6" SCHD 80 PVC – EMH7 6" SCHD 80 PVC – PP6	EXPRESS FEEDER DISCONNECT SWITCH

NOTES

1. SWITCH PADS SHALL BE PRECAST OR POURED IN PLACE CONCRETE AS SHOWN IN THE ATTACHED DETAIL. CONCRETE MUST MEET THE REQUIREMENTS OF SPECIFICATION 501 (CLASS A). 12" D–1 GRAVEL SHOULD BE PLACED UNDER EACH PAD. PAD SHALL BE LEVEL. ADJACENT SWITCH OPERATION AREA SHALL ALSO BE LEVEL AND COVERED WITH GRAVEL. VERIFY DIMENSIONS BEFORE INSTALLING PADS.
2. PROVIDE SUFFICIENT SHIELD PIGTAIL AND CABLE SLACK TO PERMIT DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. ALSO, PROVIDE SUFFICIENT CABLE SLACK FOR REPLACEMENT OF ELBOW IN CASE OF FAILURE.
3. SWITCH ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH THE GROUNDING DETAILS. SWITCH GROUNDING BUS AND PERIMETER GRID SHALL BE 2/O COPPER. MINIMUM GROUND ROD SIZE 5/8" x 8'–0" COPPERWELD. ONE ROD MUST BE INSTALLED AT EACH GRID CORNER; 4 RODS TOTAL. PERIMETER GRID WIRE SHALL BE APPROXIMATELY 24" FROM EDGE OF PAD.
4. CABLE SHIELDS SHALL BE GROUNDED TO GROUNDING BUS WITH A TAPE SHIELD ADAPTER AND #2 CU JUMPER. ALSO, GROUND CONTINUOUS SEPARATE SYSTEM NEUTRALS TO GROUNDING BUS.
5. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF SWITCHES.

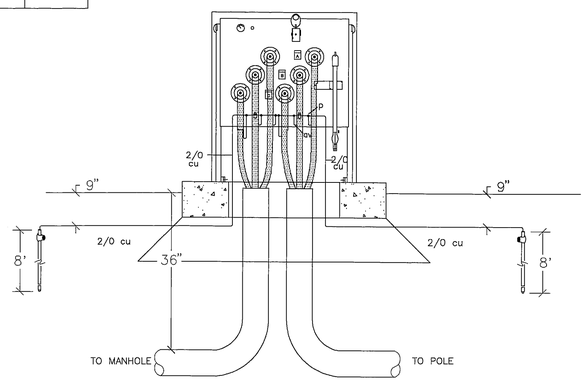
PAD DETAIL FOR
PG6-21-15 3PH TWO WAY SWITCH
PG6-32-15 3PH THREE WAY SWITCH



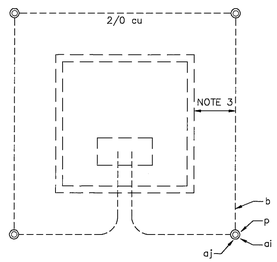
SWITCH	X	Y
PG6–21–15	53"	31"
PG6–32–15	65"	43"

INSTALLATION DETAIL FOR
PG6-21-15 3PH TWO-WAY SWITCH

ITEM	QTY.	MATERIAL FOR PG6–21–15
b		2/0 bare copper groundwire
		(as required) 30'–0" min.
p		Connectors, as required
–	6	600A Elbows
–	–	Tape, as required
ai	4	Ground rods, 5/8" copper clad x 8'–0"
aj	4	Clamp, ground rod, 1 per rod
av		Jumpers, copper as required
Uhw	2	Signs, "DANGER" and "CAUTION"



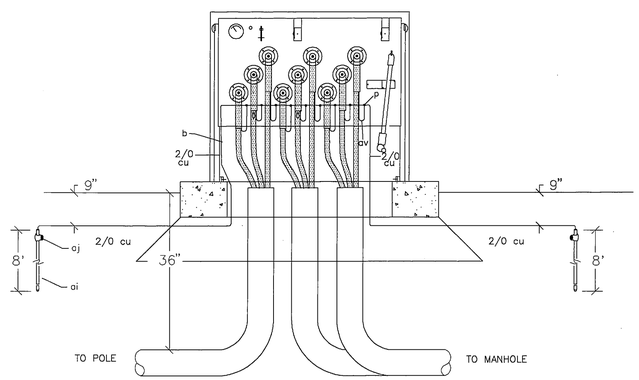
GROUNDING GRID DETAIL



INSTALLATION DETAIL FOR
PG6-32-15 3PH THREE WAY SWITCH

ITEM	QTY.	MATERIAL FOR PG61–32–15
b		2/0 bare copper groundwire
		(as required) 30'–0" min.
p		Connectors, as required
–	9	600A Elbows
–	–	Tape, as required
ai	4	Ground rods, 5/8"x 8'copper clad
aj	4	Clamp, ground rod, 1 per rod
av		Jumpers, copper as required
Uhw	2	Signs, "DANGER" and "CAUTION"

AS-BUILT
BY: KK DATE: 3/17/99



P:\SIT\70606\991 PLANSET\HT SHT 81

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
ELECTRICAL SWITCH DETAILS

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789–2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886–203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	81

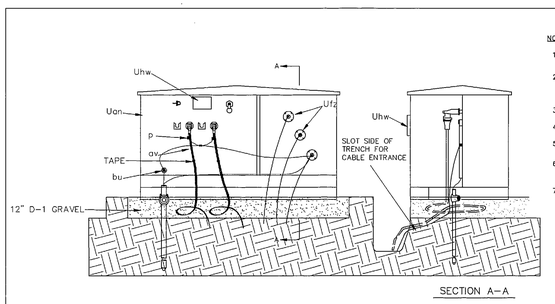
ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE–5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

PAD MOUNTED ELECTRICAL TRANSFORMER SCHEDULE

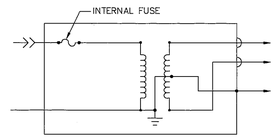
NUMBER	STATION	OFFSET	GENERAL LOCATION	SIZE	TYPE	PRIMARY FEED	PRIMARY CONDUCTOR	SECONDARY VOLTAGE	SERVICES	SERVICE CONDUCTORS	SERVICE CONDUITS
ET 1	36+42	26.5' R	HPR BETWEEN SPRUCE AND MARINE STREET	25 KVA	UG 6	EM 1	2 CU	120/240 V	508 HPR 506 HPR 504 HPR 502 HPR	2-4/0 Cu 1-2/0 Cu 2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu	3" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC
ET 2	B LINE 0 + 55	27' L	HPR AND S. LAKEVIEW	25 KVA	UG 6	EM 1	2 CU	120/240 V	514 HPR 507/509 HPR (Duplex) 200 LAKEVIEW	2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-2/0 Cu 2-2/0 Cu 1-1 Cu	2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC
ET 3	43+10	32' L	HPR BETWEEN CRABAPPLE AND N. LAKEVIEW STREETS	15 KVA	UG 6	EM 2	2 CU	120/240 V	602 HPR 604 HPR BALL FIELD STAND	2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu	2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC
ET 4	46+80	32' R	HPR BETWEEN N. LAKEVIEW STREET AND MOLLER PARK	15 KVA	UG 6	EM 3	2 CU	120/240 V	612 HPR PULL BOX #6 (ROCK RACK & GROCERY SIGNS)	2-2/0 Cu 1-1 Cu 2-2 Cu 1-4 Cu 2-2 Cu 1-4 Cu	2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC
ET 5	51+80	55' R	HPR AND MOLLER	25 KVA	UG 7	EM 4	2 CU	120/240 V	201 MOLLER 203 MOLLER TRAFFIC SIGNAL CONTROL & TRAFFIC COUNTER HOSPITAL SIGN CONCESSION STAND	2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu 2-2 Cu 1-4 Cu 2-2 Cu 1-4 Cu	2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC 2" SCHD 80 PVC
ET 6	–	–	MOLLER DR.	37.5 KVA	UG 6	PB 9	2 CU	120/240 V	210 MOLLER DR. (HEALTH CENTER) SECONDARY RISER (H2031)	2-2/0 Cu 1-1 Cu 2-2/0 Cu 1-1 Cu	2" SCHD 80 PVC 2" SCHD 80 PVC
ET 7	56+45	32.5' L	HPR BETWEEN KATLIAN AND BRADY STREETS	50 KVA	UG 6	PB 9	3/2 CU	120/240 V	PARK OFFICE STORE/APARTMENTS/SHEET METAL SHOP PACIFIC VIEW CENTER (1 PH) MOORE CLINIC	2-2 Cu 1-4 Cu 2-500 KCM Cu, 1-350 KCM Cu 2-250 KCM Cu 1-3/0 KCM Cu 2-2/0 Cu 1-1 Cu	2" SCHD 80 PVC 4" SCHD 80 PVC 3" SCHD 80 PVC 2" SCHD 80 PVC
ET 8	56+51	32.5' L	HPR BETWEEN KATLIAN AND BRADY STREETS	75 KVA	UG 17	PB 11	2 CU	208Y/120 V	PACIFIC VIEW CENTER (3 PH)	3-250 KCM Cu 1-3/0 KCM Cu	3" SCHD 80 PVC
ET 9	59+99	31' R	HPR BETWEEN BRADY AND PETERSON STREETS	50 KVA	UG 6	PB 11	3/2 CU	120/240 V	DMV/BARBER/APARTMENTS (1 PH) LAUNDROMAT (1 PH) 201 BRADY	2-500 KCM Cu 1-350 KCM Cu 2-4/0 KCM Cu 1-2/0 Cu 2-2/0 Cu 1-1 Cu	4" SCHD 80 PVC 3" SCHD 80 PVC 2" SCHD 80 PVC
ET 10	60+04	31' R	HPR BETWEEN BRADY AND PETERSON STREETS	75 KVA	UG 17	ET 5	2 CU	208Y/120 V	DMV/BARBER/APARTMENTS (3 PH) SEARS STORE (VACANT) LAUNDROMAT	3-2/0 Cu 1-1 Cu 3-250 KCM Cu 1-3/0 Cu 3-2/0 Cu 1-1 Cu	2" SCHD 80 PVC 4" SCHD 80 PVC 2" SCHD 80 PVC



NOTES:

1. ONLY THE WYE–WYE CONNECTION SHOULD BE USED TO MINIMIZE FERRO–RESONANCE.
2. PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. TRAIN CABLES AS SHOWN.
3. INSTALL WITH UNIT UM48–1 OR OTHER GROUNDING UNIT.
4. SPECIFY PAD OR SLEEVE UNIT SEPARATELY.
5. INSTALL "DANGER" SIGN ON TRANSFORMER AND "CAUTION" SIGN ON ENCLOSURE.
6. INSTALL 12" NFS GRAVEL BASE UNDER PAD AND LOOP CABLE UNDER BASE TO PROVIDE SLACK FOR FUTURE RETERMINATION OF ELBOWS.
7. PROVIDE TELEPHONE BOND WIRE IF TELEPHONE FACILITIES ARE 6 FEET OR LESS.

ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper as required
bu	1	Connector, equipment ground
Uan	1	Transformer, pad mounted, single phase with two load break bushings and internal fuses
al	1	Ground Rod, 5/8" Copper Clad
aj	1	Ground Rod Clamp
cj		Ground wire, #4 Cu (as req'd)
–	2	200 A Terminators
Uhw	2	Signs, "DANGER" and "CAUTION"
Ufz	3	Secondary Transformer Connectors
		Tape, as required



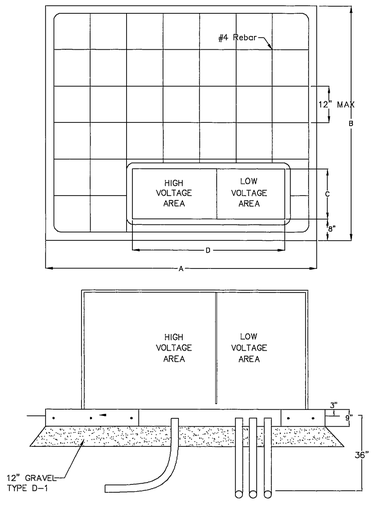
WIRING DIAGRAM
UG7

SINGLE PHASE PAD MOUNTED TRANSFORMER (LOOP FEED)

UG7

NOTES

1. TRANSFORMER PADS SHALL BE PRECAST OR POURED IN PLACE CONCRETE AS SHOWN IN THE ATTACHED DETAIL. PAD SHALL BE SIZED TO INDIVIDUAL TRANSFORMER BUT IN NO CASE BE LESS THAN 12" LARGER THAN THE TRANSFORMER OUTLINE. CONCRETE MUST MEET THE REQUIREMENTS OF SPECIFICATION 501 (CLASS A). 12" D–1 GRAVEL SHALL BE PLACED UNDER EACH PAD.
2. TRANSFORMER PRIMARY VOLTAGE IS12470V GROUNDED WYE/7200V. ONLY THE WYE–WYE CONNECTION SHALL BE USED TO MINIMIZE FERRORESONANCE.
3. TRANSFORMERS SHALL HAVE INTERNAL FUSE(S) AND SECONDARY BREAKERS.
4. PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PREMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. ALSO PROVIDE SUFFICIENT CABLE SLACK FOR REPLACEMENT OF ELBOW IN CASE OF FAILURE.
5. TRANSFORMER NEUTRALS AND CASES SHALL BE GROUNDED IN ACCORDANCE WITH THE GROUNDING DETAILS. MINIMUM GROUND WIRE SIZE #4 COPPER; MINIMUM GROUND ROD SIZE 5/8" x 8'–0" COPPERWELD.
6. TIE CONCENTRIC NEUTRALS TOGETHER BEFORE TAP TO GROUND LOOP TO ASSURE SAME CONDUCTIVITY AS CABLE NEUTRAL.
7. PLASTIC PADS MAY BE USED ON 15–25KVA SINGLE PHASE TRANSFORMERS.
8. SEE SHEET 101 FOR TRANSFORMER SPACING.

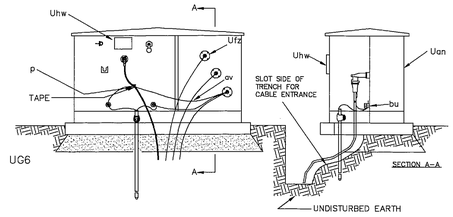


PAD DIMENSION CHART

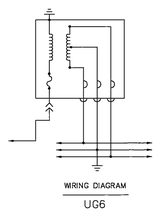
A TRANSFORMER WIDTH +12"
B TRANSFORMER DEPTH +12"
C 15" OR AS REQUIRED BY MANUFACTURER
D 48" OR AS REQUIRED BY MANUFACTURER

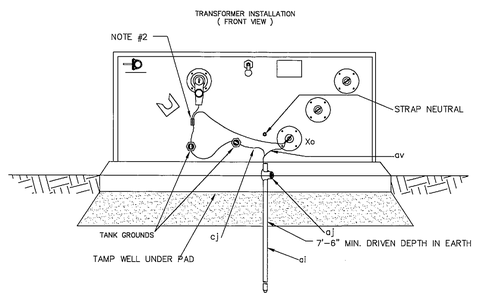
1 TRANSFORMER PAD DETAIL

NO SCALE



ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper as required
bu	1	Connector, equipment ground
Uan	1	Transformer, pad mounted, single primary load
		break bushing and internal fuse
al	1	Ground rods, 5/8" copper clad
aj		Clamp, ground rod (1 per rod)
cj		Ground wire, #4 copper (as required)
	1	200A Terminators
Uhw	2	Signs, "DANGER" and "CAUTION"
		Tape, as required
Ufz	3	Transformer Secondary Connectors

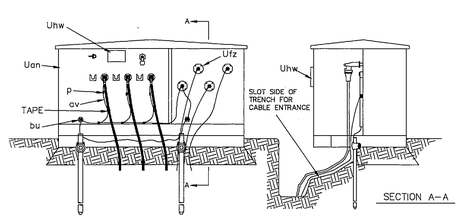




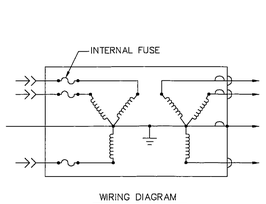
GROUNDING DETAIL

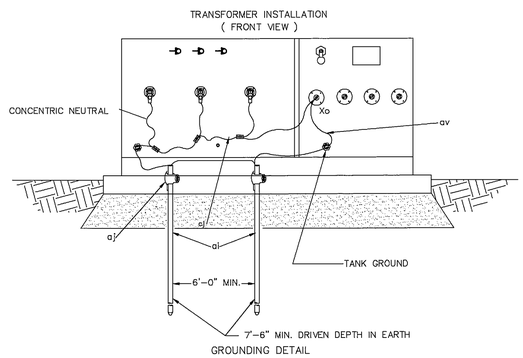
2 SINGLE PHASE PAD MOUNTED TRANSFORMER (UG6)

NO SCALE



ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper as required
bu	1	Connector, equipment ground
Uan	1	Transformer, pad mounted, three phase with one
		load break bushing per phase and internal fuses
al	2	Ground rods, 5/8", Copper clad
aj		Clamp, ground rod (1 per rod)
cj		Ground wire, (See Note #5)
	3	200A Terminators
Uhw	2	Signs, "DANGER" and "CAUTION"
		Ground wire (#4 Copper)
		Tape, as required
Ufz	4	Transformer Secondary Connectors





GROUNDING DETAIL

3 THREE PHASE PAD MOUNTED TRANSFORMER (UG17)

NO SCALE

AS-BUILT

BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\#SHT82

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	7-21-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
PAD MOUNTED ELECTRICAL TRANSFORMER DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789–2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886–203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	82

ENGINEER'S SEAL

STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE–5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

UNDERGROUND ELECTRICAL SERVICE LIST

APPROX. STA. #	STREET ADDRESS	BUILDING TYPE	VOLTAGE	PHASE/WIRE	ENTRANCE PANEL RATING	SERVICE CONDUCTOR	METER CONDUIT	TRANSFORMER	METER BASE TYPE	METER TYPE	MODIFICATIONS	REMARKS
34+80	502 HALIBUT POINT ROAD	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	7 FT. 2" RGS	ET1	EXISTING	2S	REMOVE AND CAP OVERHEAD SERVICE. INSTALL 2" RGS THROUGH BOTTOM OF METER BASE.	SEE DETAIL UM8-2
35+80	504 HALIBUT POINT ROAD	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	7-1/2 FT. 2" RGS	ET1	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE	SEE DETAIL UM8-2B
36+80	506 HALIBUT POINT ROAD	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET1	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE INSTALL ON REAR OF HOME	SEE DETAIL UM8-2B
37+50	508 HALIBUT POINT ROAD	CHURCH	120/240V	1 PH/3 WIRE	2/100A 1 BLANK	4/0 CU	6 FT. 3" RGS	ET1	EXISTING	2/2S	REMOVE AND CAP OVERHEAD SERVICE. INSTALL 3" RGS THROUGH BOTTOM OF METER BASE.	-
39+50	HALIBUT POINT ROAD 507/509	DUPLEX	120/240V	1 PH/3 WIRE	2/100A	4/0 CU	6 FT. 3" RGS	ET2	EXISTING	2/2S	REMOVE AND CAP OVERHEAD SERVICE. INSTALL 3" RGS THROUGH BOTTOM OF METER BASE.	RELOCATE FEED TO CONSUMER'S MAIN PANEL.
40+00	514 HALIBUT POINT ROAD	CHURCH	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET2	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE	SEE DETAIL UM8-2B
43+00	BALLPARK	STAND	120/240V	1 PH/3 WIRE	200A	2/0 CU	5 FT. 2" RGS	ET3	SQUARE D UGSC4BM200 FTRH OR EQUIVALENT	2S	REPLACE METER BASE	SEE DETAIL UM8-2B
43+60	602 HALIBUT POINT ROAD	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET3	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE	SEE DETAIL UM8-2B
43+60	604 HALIBUT POINT ROAD	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET3	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE INSTALL ON BACKSIDE OF NEW GARAGE	SEE DETAIL UM8-2B
-	239 N. LAKEVIEW	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ELECTRICAL PULLBOX #5	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE	SEE DETAIL UM8-2B
-	240 N. LAKEVIEW	RESIDENCE	120/240V	1 PH/3 WIRE	200A	EXISTING	-	ELECTRICAL PULLBOX #5	EXISTING	2S	-	INTERCEPT SERVICE AT POLE K2071
47+00	BUSINESS SIGN	SIGN	120/240V	1 PH/3 WIRE	100A	#2 CU	6 FT 2" RGS	ET4	SQUARE D UGC125RB OR EQUIVALENT	2S	REPLACE METER BASE	SEE DETAIL UM8-2B
47+40	612 HALIBUT POINT ROAD	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET4	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
48+50	BUSINESS SIGN	SIGN	120V/240V	1 PH/3 WIRE	100A	#2 CU	6 FT 2" RGS	ET4	SQUARE D UGC125RB OR EQUIVALENT	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
50+00	KATLIAN SIGNAL	TRAFFIC SIGNAL	120V/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT/2"RGS	ET5	(EXISTING)	2S	REPLACE SERVICE CONDUCTORS	SEE DETAIL UM8-2 (SEE NOTE 1)
50+00	HOSPITAL SIGN	SIGN	120V/240V	1 PH/3 WIRE	100A	#2 CU	6 FT/2"RGS	ET5	SQUARE D UGC125RB OR EQUIVALENT	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
50+00	CONCESSION STAND	STAND	120V/240V	1 PH/3 WIRE	100A	#2 CU	6 FT/2"RGS	ET5	SQUARE D UGC125RB OR EQUIVALENT	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
53+00	201 MOLLER DR.	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET5	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
53+00	203 MOLLER DR.	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET5	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
53+00	210 MOLLER DR.	HEALTH CENTER	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET6	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE.	INSTALL NEW METER OUTSIDE AND INTERCEPT EXST'G SERVICE.
55+00	PARK BUILDING	OFFICE	120/240V	1 PH/3 WIRE	100A	#2 CU	6 FT 2" RGS	ET7	CIRCLE AW 100 AMP (UG) 3R WITH MAIN U214MTBH OR EQUIV.	2S	REPLACE METER BASE.	BUILDING MAY BE MOVED. SEE DETAIL UM8-2B
55+80	DEWEYS PARTY FRANK'S SHEET METAL APARTMENTS	STORE/SHOP APARTMENTS	120/240V	1 PH/3 WIRE	5/100A 1/200A	500 CU	6 FT. 4" RGS	ET7	SQUARE D MP66-125R 125A MULTI-METERING	6/2S	REPLACE METER BASE. EXISTING METER CENTER INSIDE BUILDING.	SEE DETAIL OF DEWEYS/FRANKS/APTS

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606894\PLANSET\#SHT83

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

NH 099-3(3) 70606
UNDERGROUND ELECTRICAL SERVICE LIST AND DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 83

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE-5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

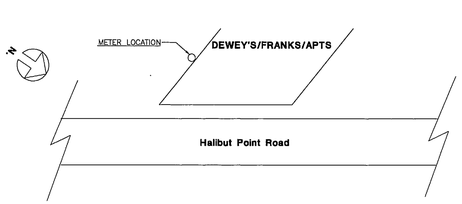
PROJECT DESIGNATION	YEAR
70606	1993

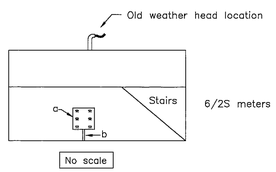
UNDERGROUND ELECTRICAL SERVICE LIST (CONTINUED)

APPROX. STA. #	STREET ADDRESS	BUILDING TYPE	VOLTAGE	PHASE/WIRE	ENTRANCE PANEL RATING	SERVICE CONDUCTOR	METER CONDUIT	TRANSFORMER	METER BASE TYPE	METER TYPE	MODIFICATIONS	REMARKS
56+60	PACIFIC VIEW CENTER	OFFICE COMPLEX	120/240V	1 PH/3 WIRE	4/100A	250 CU	19 FT. 3" RGS	ET7	EXISTING METER CENTER	4/2S	REMOVE AND CAP OVERHEAD SERVICES. INSTALL 3" RGS THROUGH BOTTOM OF METER CENTER.	LEAD SEAL UTILITY SIDE OF METER CENTER
56+60	PACIFIC VIEW CENTER	OFFICE COMPLEX	208Y/120V	3 PH/4 WIRE	2/200A	250 CU	19 FT. 3" RGS	ET8	2/200A EXISTING	EXISTING METERS WITH DEMAND	REMOVE AND CAP OVERHEAD SERVICES. INSTALL 3" RGS THROUGH BOTTOM OF JUNCTION BOX.	LEAD SEAL JUNCTION BOX.
57+00	MOORE CLINIC	OFFICE/LIGHT	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET7	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE.	SEE DETAIL UM8-2B
59+00	DMV BARBER SHOP APARTMENTS	OFFICE/SHOP APARTMENTS	120/240V	1 PH/3 WIRE	600A	500 CU	3-1/2 FT. 4" RGS	ET9	12/100A EXISTING	11/2S 1 BLANK	REMOVE AND CAP OVERHEAD SERVICES. INSTALL 4" RGS THROUGH BOTTOM OF JUNCTION BOX.	LEAD SEAL JUNCTION BOX.
59+00	DMV BARBER SHOP APARTMENTS	OFFICE/SHOP APARTMENTS	208Y/120V	3 PH/4 WIRE	200A	#2/0 CU	6-1/2 FT. 2" RGS	ET10	CIRCLE AW U2M2R-7 WITH MAIN OR EQUIV.	16S WITH DEMAND	REPLACE METER BASE.	SEE DETAIL UM8-2B
59+00	201 BRADY ST.	RESIDENCE	120/240V	1 PH/3 WIRE	200A	2/0 CU	6 FT. 2" RGS	ET9	CIRCLE AW 200 AMP (UG) 3R WITH MAIN U4224MTBH OR EQUIV.	2S	REPLACE METER BASE. INSTALL NEW METER BASE ON HPR SIDE OF HOUSE.	SEE DETAIL UM8-2B
60+00	SEARS	STORE (VACANT)	208Y/120V	3 PH/4 WIRE	200A	250 CU	5 FT. 4" RGS	ET10	24"X24" CT CAN RAINPROOF AND A 13 JAW METER SOCKET W/TEST SWITCHES.	9S WITH DEMAND	INSTALL CT CAN AND METER SOCKET ON FRONT EAST CORNER OF BUILDING.	RUN 4" RGS TO PANEL INSIDE BLDG. SEE SEARS DETAIL.
60+50	DUDS & SUDS	LAUNDROMAT	120/240V	1 PH/3 WIRE	2/200A	4/0 CU	7 FT. 3" RGS	ET9	EXISTING	2/2S	REMOVE AND CAP OVERHEAD SERVICES. INSTALL 3" RGS THROUGH BOTTOM OF METER BASE.	LEAD SEAL UTILITY SIDE OF METER BASE.
60+50	DUDS & SUDS	LAUNDROMAT	208Y/120V	3 PH/4 WIRE	200A	2/0 CU	7 FT. 2" RGS	ET10	CIRCLE AW U2M2R-7 WITH MAIN OR EQUIV.	16S WITH DEMAND	REPLACE METER BASE.	

DEWEY'S METER DETAIL

No scale



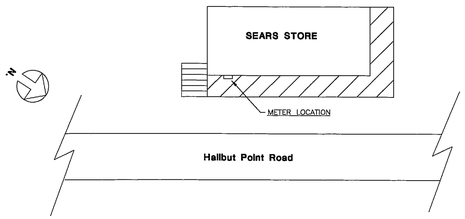


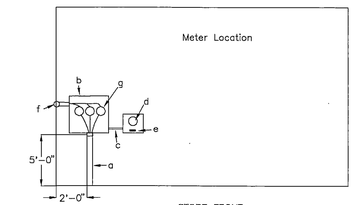
ITEM	MATERIALS
a	SQUARE D MP66-125R MULTI-METERING WITH 5/QM2125 1/Q2M2200 (Q2 BOLT-ON CIRCUIT BREAKERS) OR EQUIVALENT PARTS.
b	3" RGS AS REQ'D.

NOTE: THE NEW METER CENTER WILL BE LOCATED ON THE EXTERIOR WALL JUST OPPOSITE THE OLD METER CENTER LOCATED INSIDE THE BUILDING.

SEARS STORE METER DETAIL

No scale

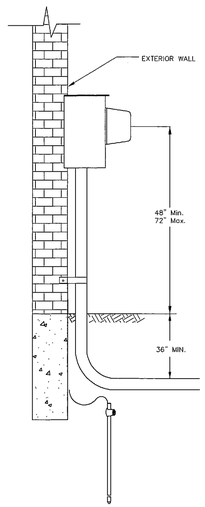




STORE FRONT
No scale

ITEM	MATERIALS
a	4" RGS
b	2'X2'X1' RAINPROOF CT CAN
c	1'-1" RGS
d	13 JAW METER SOCKET/FORM9S WITH DEMAND REG./CIRCLE AW 121413 OR EQUIV.
e	TEST SWITCHES MD #2433-1-ST 10 POLE SWITCH WITH ±LSCO OR EQUIV.
f	2/4" LBS
g	CT-200:5 JAK-O G.E. OR EQUIVALENT PARTS.

NOTE: THE NEW SERVICE ENTRANCE WILL BE LOCATED ON THE STORE FRONT AND 3" RGS WILL BE INSTALLED FROM THE CT CAN TO THE OLD CT CAN INSIDE THE BUILDING.



NOTE: UM82-b HAS METER BASE WITH MAIN BREAKER

QTY.	MATERIAL
1	METER SOCKET
1	PIPE STRAP
1	INSULATED BUSHINGS
2	CONDUIT LOCKNUTS
1	8' GROUND ROD
1	CONDUIT, AS REQUIRED

INSTALLATION GUIDE METER BASE

UM8-2

NOTES

1. THE TRAFFIC COUNTER CONTROLLER WILL BE FED FROM THE TRAFFIC SIGNAL METER. A 50A 2 POLE BREAKER WILL BE INSTALLED IN THE TRAFFIC SIGNAL CONTROLLER ENTRANCE PANEL AND 2-#6 Cu, AND 1-#8Cu TO THE TRAFFIC COUNTER. ALSO, THE EXISTING TRAFFIC COUNTER WILL BE RELOCATED AND INSTALLED AT THE BACK SIDE OF THE TRAFFIC SIGNAL CONTROLLER. SEE TRAFFIC SIGNAL SHEETS 102-105 FOR MORE DETAIL.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RISERS, WEATHER-HEADS, AND METER CANS THAT WILL BE ABANDONED AS A RESULT OF THIS CONTRACT.

   A. METER CANS THAT ARE REPLACED SHALL BE EQUIPPED WITH A MAIN BREAKER AND INSTALLED IN ACCORDANCE WITH NESC AND THE MOST STRINGENT STATE AND/OR LOCAL CODE.

   B. THE CONTRACTOR SHALL REPAIR OR PATCH ALL ROOF AND WALL DAMAGE THAT RESULTS FROM THE REMOVAL OF RISERS, WEATHER-HEADS AND METER CANS.

   C. THE CONTRACTOR SHALL RE-ESTABLISH THE FEED FROM THE LOAD SIDE OF THE METER SOCKET OR MAIN BREAKER TO THE CONSUMER'S ORIGINAL MAIN BREAKER OR PANEL.

   D. THE CONTRACTOR SHALL SCHEDULE PLANNED OUTAGES FOR RECONSTRUCTION OF THE CONSUMER'S SERVICE ENTRANCE.

3. THE CONTRACTOR SHALL VERIFY SIZE OF ELECTRICAL SERVICES WITH UTILITY BEFORE INSTALLATION.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SHT84

BY:	DATE:	DESCRIPTION OF CHANGE:
K.K.	3/17/99	AS-BUILT
	6/20/94	
	7/21/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

NH 099-3(3) 70606
UNDERGROUND ELECTRICAL SERVICE LIST AND DETAILS

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	84

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

POLE				PRIMARY								SECONDARY						MISC.	
NUMBER	LOCATION	STATION & OFFSET	POLE HEIGHT/CLASS	PRIMARY ASSEMBLY	PRIMARY CONDUCTOR	PRIMARY SPAN	GUY	ANCHORS	GROUNDS	PRIMARY RISER	TRANSFORMER	OVERHEAD SERVICE CONDUCTOR	OVERHEAD SERVICE SPAN	OVERHEAD SERVICE ATTACHMENT	UNDERGND SERVICE CONDUCTOR	UNDERGND SERVICE LENGTH	UNDERGND SERVICE RISER	MISC.	REMARKS
PP 1	MARINE STREET	A–LINE 1 + 30 16'R	50–3	DC–C7	(397.5 AAC) (2/0 ACSR)		3/E2–3		M2–11	DC–UC3									BRIDLE GUY
PP 2 GUY STUB	MARINE STREET	A–LINE 1 + 15 16'R	50–3	A1	#4 ACSR 1 PH SLACK SPAN	15'	2/E1–4	2/F1–4P											
02061	MARINE STREET	–	(50–3)	(C7/C2) CONV. TO A5	#4 ACSR 1 PH SLACK SPAN	35'	(E2–2)		(M2–11)		R&I (G106–37.5KVA)	(3 SERVICES)		(3/K–11C)	2–2 Cu, 1/4 Cu ST. LIGHT CONTROL	70'	UM–5 2" PVC	R&I(M5–9)	USE TRANSFORMER FROM POLE H 2031
N 1111	S. LAKEVIEW STREET	–	(35–3)									1/O Al TRIPLEX	70'	K–11C			UM–5 2" PVC		PLUMB POLE TM 101 POLE STABILIZER
N 1041	S. LAKEVIEW STREET	–	(35–3)	(A1) CONV. TO A5	#4 ACSR 1 PH		E1–2 (E1–2)	F1–3P (F1–3P)	M2–11	UA1		(3 SERVICES)		(3/K–11C)					
PP 3	CRABAPPLE STREET	C–LINE 1 + 18 19'	45–3	A5	(#4 ACSR 1 PH)	R&I (100')	E1–2	F1–4P	M2–11	UA1		(SERVICE)	R&I (40')	2/K–11C					
M 1141	CRABAPPLE STREET	–	(45–3)	(A6)	(#4 ACSR 1 PH)		(E1–2)	(F1–3)	(M2–11)		(G106–37.5KVA)	(SERVICE)	R&I (100')	(K–11C)				(M5–9) (ST. LIGHT)	
PP 4	N. LAKEVIEW STREET	D–LINE 2 + 23 27'L	45–3	A5	(#6 Cu 1 PH)	R&I (100')	E1–2	F1–4P	M2–11	UA1		1/O Al TRIPLEX	50'	2/K–11C	2–2/O Cu, 1–1 Cu FEEDS EP #5	90'	UM–5 2" PVC		
K 1121	N. LAKEVIEW STREET	–	(45–3)	(A1)	(#6 Cu 1 PH)				(M2–11)		(G105–37.5KVA)	4/O AL TRIPLEX (SERVICE)	90'	K–11C (K–11C)				(M5–9)	
H 2031	MOLLER DRIVE	–	(45–3)						(M2–11)			(2 SERVICES)	120'	(2/K–11C)	2–2/O Cu, 1–1 Cu FEED FROM ET6	122'	UM–5 2" PVC	(2–STREET LIGHTS)	PLUMB POLE
H 3081	KATLIAN STREET	–	(45–3)	(C8) CONV. TO C7	(397.5 AAC 3 PH) SLACK SPAN	R&I (80')	(E1–2 SW)	(F1–3)	M2–11	UC3									REMOVE OH SWITCH
I 4011	KATLIAN STREET	–	(45–3)	(C1) CONV. TO C8–3	(397.5 AAC 3 PH)		2/E1–3	2/F1–4P	(M2–11)		(G136–75/100KVA)	(3 SERVICES)		(3/K–11C)				(2/M5–9)	
PP 5	BRADY STREET	G LINE 1 + 09 28'L	45–3	C7	(1/O ACSR 3 PH) SLACK SPAN	R&I (60')			M2–11	UC1									SEE SPEC TM–101 POLE STABILIZER
E1091	BRADY STREET	–	(45–3)	(C1) CONV. TO C8–2	(1/O ACSR 3 PH)		E1–3	F1–4P	(M2–11)		R&I (G136–75KVA)	(2 SERVICES)		(2/K–11C)				R&I(M5–9) (ST. LIGHT)	LOWER TRANSF. FOR GUY CLEARANCE
C 1141	PETERSON STREET	–	(55–2)	(C8) CONV. TO C7–1	(397.5 AAC 3 PH)		(E1–2) E1–3	(F1–3) F1–4P	(M2–11)	UC3		(SERVICE)	R&I (50')	K–11C					RAISE APT. BLDG. SERVICE MAST
B 2021	HALIBUT POINT ROAD	–	(50–3)	(C8) CONV. TO A5	(2/O ACSR) SLACK SPAN	R&I (40')			(M2–11)		(G136–5KVA)	(3 SERVICES)		(3/K–11C)				R&I(M5–9) (ST. LIGHT)	
PP6	HALIBUT POINT ROAD	64+40 40'R	50–3	C7–1/A5	(2/O ACSR)		2/E1–3	2/F1–4P	M2–11	UC3									

KEY

( ) EXISTING FACILITY TO BE RETAINED
R&I( ) EXISTING FACILITY TO BE REMOVED AND RE INSTALLED
CONV( ) CONVERSION OF AN EXISTING FACILITY TO A NEW FACILITY

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606H94\PLANSET\$SHT85

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

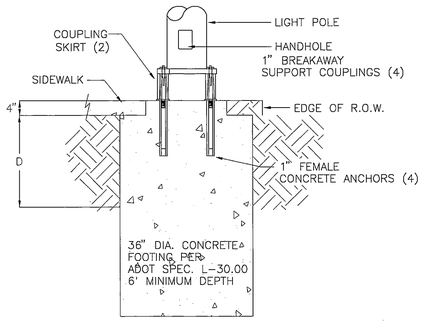
SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
ELECTRICAL OVERHEAD SYSTEM MODIFICATIONS
STRUCTURE LIST AND DETAILS

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

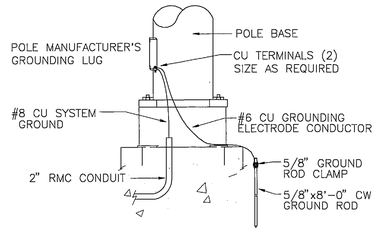
DESIGNED BY: F.M.C.	PROJECT NO. 0886–203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 85

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE–5604
REGISTERED PROFESSIONAL ENGINEER

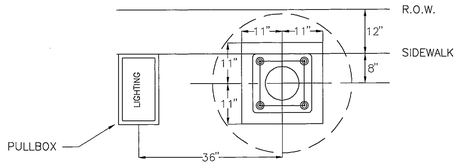
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS



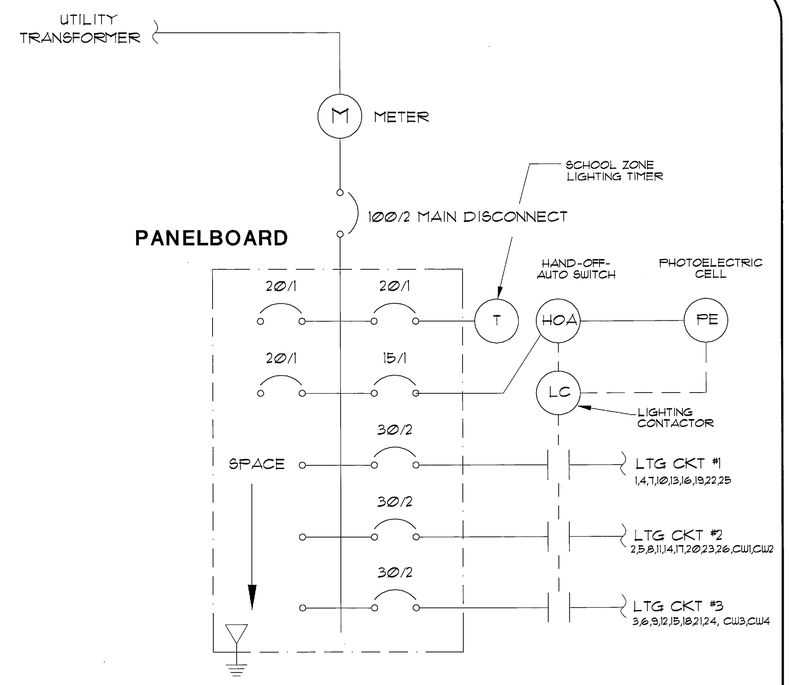
NOTE: STREET LIGHT POLE FOUNDATIONS SHOULD BE SET 24" BEHIND THE SIDEWALK WHERE SUFFICIENT RIGHT-OF-WAY EXISTS.



POLE BASE GROUNDING DETAIL

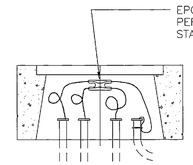


STREET LIGHT FOUNDATION DETAILS NO SCALE

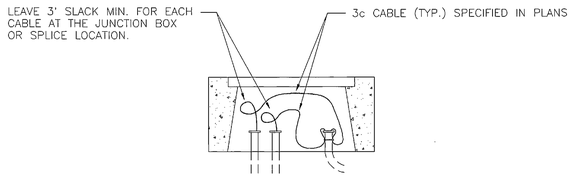


1 CONTROLLER SCHEMATIC

NO SCALE

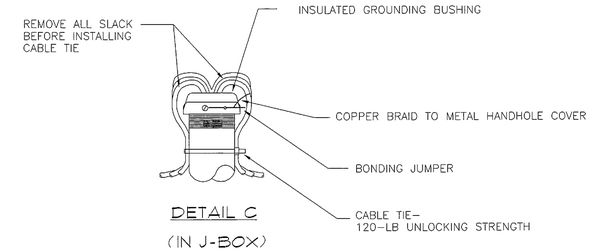


DETAIL A



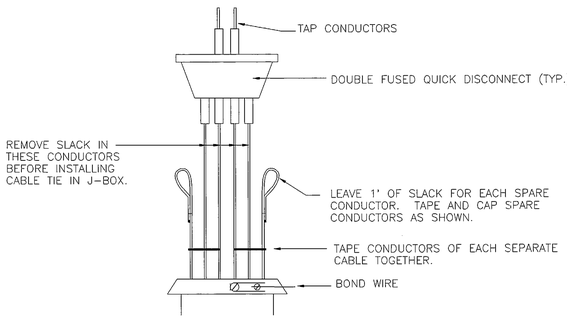
DETAIL B

NOTE: SEE DETAIL "A" FOR FOUR-WAY SPLICE



DETAIL C

(IN J-BOX)

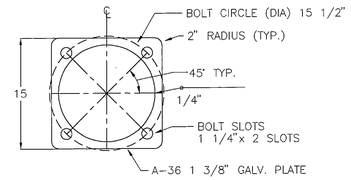


DETAIL D

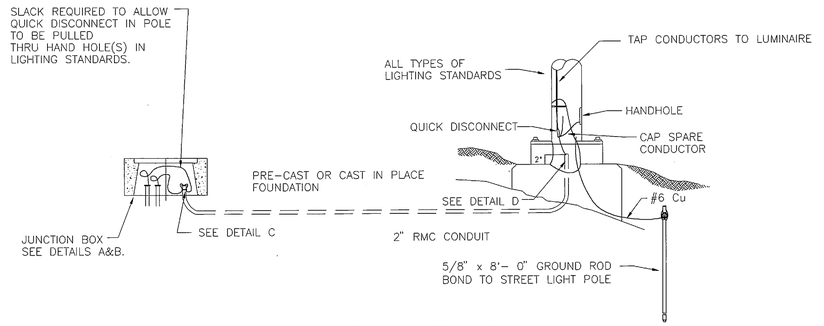
(IN POLE BASE)

NOTES:

STREET LIGHT POLE & MAST ARM ASSEMBLIES SHALL BE MANUFACTURED TO PLACE THE LUMINAIRE LENS 35'-0" ABOVE THE ROAD SURFACE AND DIRECTLY ABOVE THE EDGE OF THE TRAVELED WAY (FOG LINE). UTILIZE FOUR-BOLT MULTI-DIRECTIONAL ANCHOR BOLTS WITH BREAKAWAY POLE BASES. ENSURE THAT OVERALL SYSTEM PROVIDES AVERAGE HORIZONTAL ILLUMINATION OF 1.21 FOOTCANDLES (MAINTAINED) WITH AN AVERAGE TO MINIMUM UNIFORMITY RATIO OF 3:1, MAXIMUM. SYSTEM CONTROL SHALL BE VIA A SINGLE PHOTOELECTRIC CELL MOUNTED TO A 3/4" RIGID STEEL CONDUIT ATTACHED TO THE MOUNTING BASE FOR THE CONTROLLER CABINET. CABINET SHALL BE NEMA 3R, #12 GAUGE PREGALVANIZED STEEL WITH GRAY ENAMEL FINISH, HEAVY-DUTY CONCEALED HINGES, STAINLESS STEEL PAD-LOCKABLE VAULT HANDLE AND CLOSED CELL NEOPRENE GASKET, INCLUDED A 100 AMP, 4 JAW METER BASE; A 100 AMP, 1ø, 3 WIRE, 240 VOLT, COPPER BUS PANELBOARD WITH 10,000 AIC BOLT-ON CIRCUIT BREAKERS AS NOTED; A 4 POLE, 30 AMP LIGHTING CONTACTOR; A HAND-OFF-AUTOMATIC SWITCH; AND A SINGLE CIRCUIT, CALENDAR PROGRAMMABLE, SOLID STATE TIME SWITCH (FOR THE SCHOOL ZONE FLASHING LIGHTS). MOUNT APPROPRIATE COMPONENTS WITHIN THE CABINET AND ATTACH TO THE CONCRETE BASE PER STANDARD DRAWING T-33.01.



ANCHOR BASE DETAIL



LIGHTING SYSTEM STANDARD AND J-BOX WIRING DETAILS

BONDING AND GOUNDING JUMPERS- SEE FOUNDATION DETAILS AND SUBSECTION 660-2.10 OF THE STANDARD SPECIFICATIONS.

2 STREET LIGHT DETAILS

NO SCALE

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606\99\PLANSET\# SHT86

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	
	7-21-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

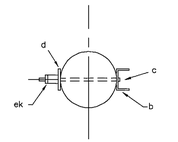
SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
STREET LIGHT DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

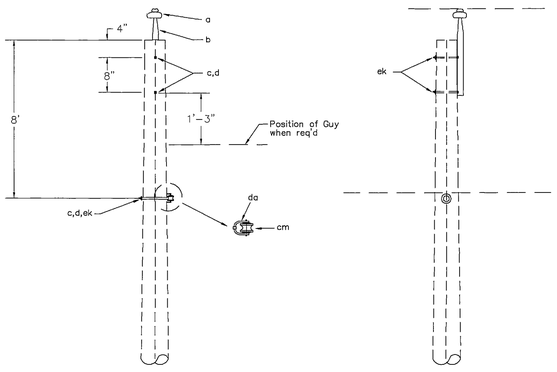
DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	86

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993



POLE TOP PIN ASSEMBLY

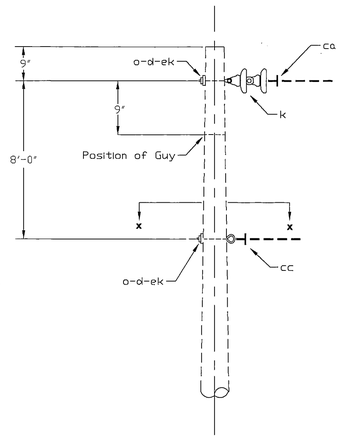


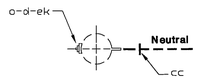
DESIGN LIMITS
Max. transverse load: 500 lbs. per conductor
Max. line angle within load limits: 5°

ITEM	QTY.	MATERIAL
a	1	Insulator, pin type
b	1	Pin, pole top, 20"
c	3	Bolt, machine, 5/8" x req'd length
d	3	Washer, square, 2 1/4"
cm	1	Spool insulator
da	1	Clevis
ek		Locknuts, as required

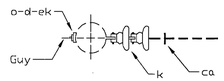
12.5/7.2 kV PRIMARY, 1-PHASE SINGLE PRIMARY SUPPORT

A1





SECTION X-X

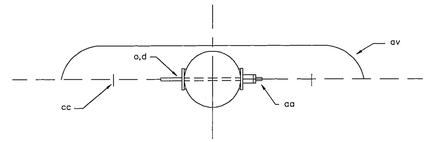


PLAN

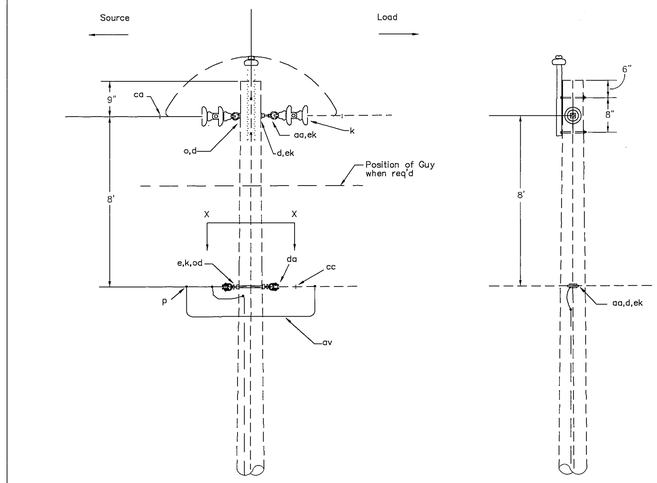
ITEM	NO.	MATERIAL
d	2	Washer, square, 2 1/4"
k	2	Insulator, suspension
o	2	Bolt, eye, 5/8" x req'd. length
ek		Locknuts, as required
ca	1	Deadend assembly, primary
cc	1	Deadend assembly, neutral

12.5/7.2 kV PRIMARY, 1-PHASE DEAD END (SINGLE)

A5



SECTION X-X



ITEM	QTY.	MATERIAL
d	4	Washer, square, 2 1/4"
k	4	insulator, suspension
o	2	Bolt, eye, 5/8" x req'd length
p		Connectors, as req'd
aa	2	Nut, eye, 5/8"
av		Jumpers, as req'd
ca	2	Deadend assembly, primary
cc	2	Deadend assembly, neutral
ek		Locknuts, as required

12.5/7.2 kV PRIMARY, 1-PHASE VERTICAL DEADEND (DOUBLE)

A6

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SHT87

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA HALIBUT POINT ROAD
NH 099-3(3) 70606
DETAILS: SHEET 1 of 7

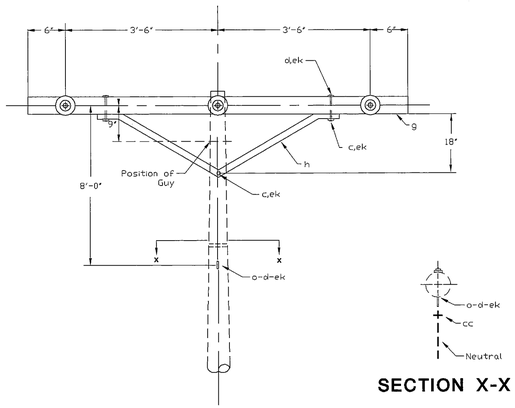
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 87

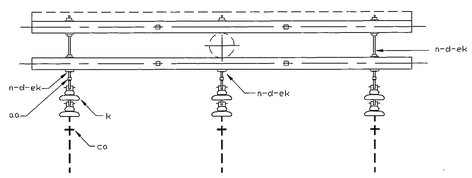
ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993



SECTION X-X



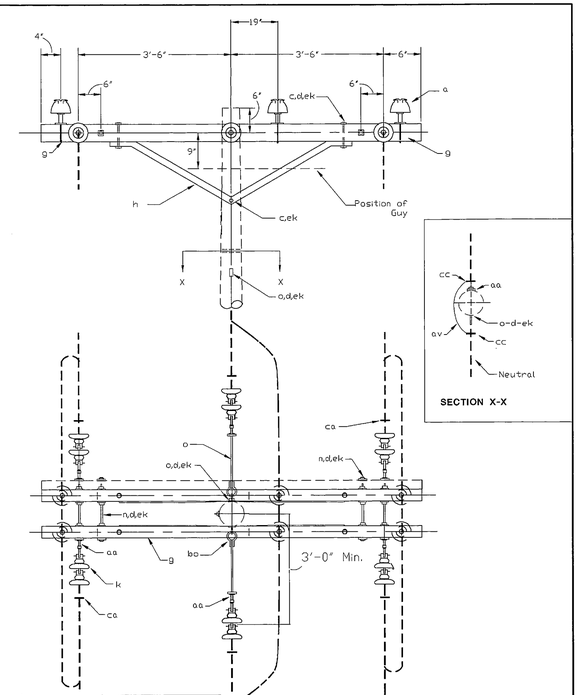
PLAN

ITEM	NO.	MATERIAL
c	4	Bolt, machine, 1/2" x req'd length
c	1	Bolt, machine, 5/8" x req'd length
d	13	Washer, 2 1/4"x2 1/4" x 3/16",3/16" hole
g	2	Crossarm, 3 5/8" x 4 5/8" x 8'-0"
h	2	Brace, HD Wood, 60" Span, 18" Drop
k	6	Insulator, suspension
n	3	Bolt, double arming, 5/8" x req'd. length
o	1	Bolt, eye, 5/8" x req'd. length
aa	3	Nut, eye, 5/8"
ek		Locknuts, as required
ca	3	Deadend assembly, primary
cc	1	Deadend assembly, neutral

NOTE: C7-1 HAS 3 CROSSARMS

12.5/7.2 kV, 3-PHASE
CROSSARM CONSTRUCTION
DEAD END (SINGLE)

C7,C7-1



SECTION X-X

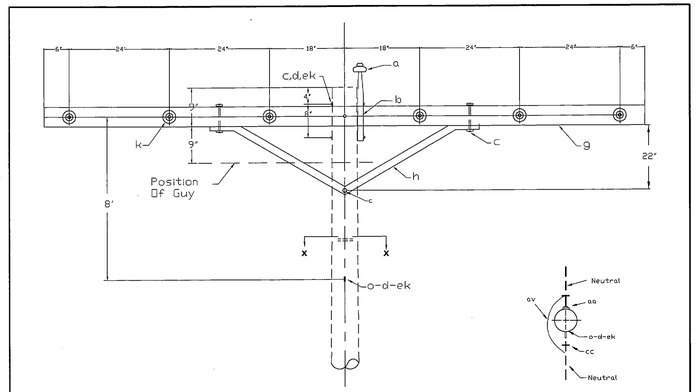
PLAN

ITEM	NO.	MATERIAL
c	1	Bolt, machine, 5/8" x req'd length
c	4	Bolt, machine, 1/2" x req'd length
d		Washer, 2 1/4"x1 1/4"x3/16", 13/16" hole as req'd
g		Crossarm, 3 5/8" x 4 5/8" x 8'-0" as req'd
h	2	Brace, HD Wood, 60" Span, 18" Drop
j	2	Screw, lag, 1/2" x 4"
k	12	Insulator, suspension
n	5	Bolt, double arming, 5/8" x req'd. length
o	3	Bolt, eye, 5/8" x req'd length
p		Connectors, as req'd
aa	7	Nut, eye, 5/8"
av		Jumpers, as req'd
bo	6	Shackle, anchor
ca	6	Deadend, assembly, primary
cc	2	Deadend, assembly, neutral
ek	2	Locknuts, as req'd

NOTE: C8-3 HAS 3 CROSSARMS

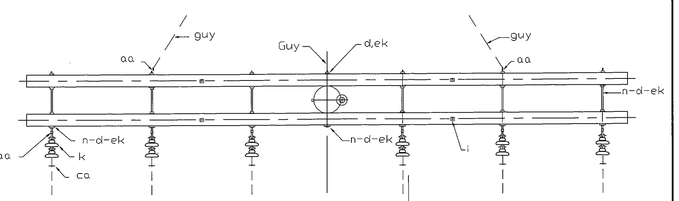
12.5/7.2 kV, 3-PHASE
CROSSARM CONSTRUCTION, DEADEND (DOUBLE)
LARGE CONDUCTORS WITH UNBALANCED LOADS

C8-2,C8-3



DC-C7

SECTION X-X



PLAN

ITEM	NO.	MATERIAL
a	1	Insulator, pin type
b	1	Pin, tole top, 20"
c	3	Machine bolt, 5/8"x req'd. length
c	4	Machine bolt, 1/2"x req'd. length
d	30	Washer,2 1/4" sq.
g	2	Crossarm, 4 5/8"x 5 5/8" x12'-0"
h	2	Brace, HD Wood, 72" Span, 22" Drop
k	12	Insulator, suspension
n	7	Bolt, double arming, 3/4" x req'd. length
o	1	Bolt, eye, 5/8" x req'd. length
aa	8	Nut, eye, 3/4"
ca	6	Deadend assembly, primary
cc	1	Deadend assembly, neutral
ek		Locknuts, as required

12.5/7.2 kV, 3-PHASE
CROSSARM CONSTRUCTION
DEAD END (SINGLE)

DC-C7

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE-5604

P:\SIT\70606#94\PLANSET\#SHT88

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA HALIBUT POINT ROAD
NH 099-3(3) 70606
DETAILS: SHEET 2 of 7

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	88

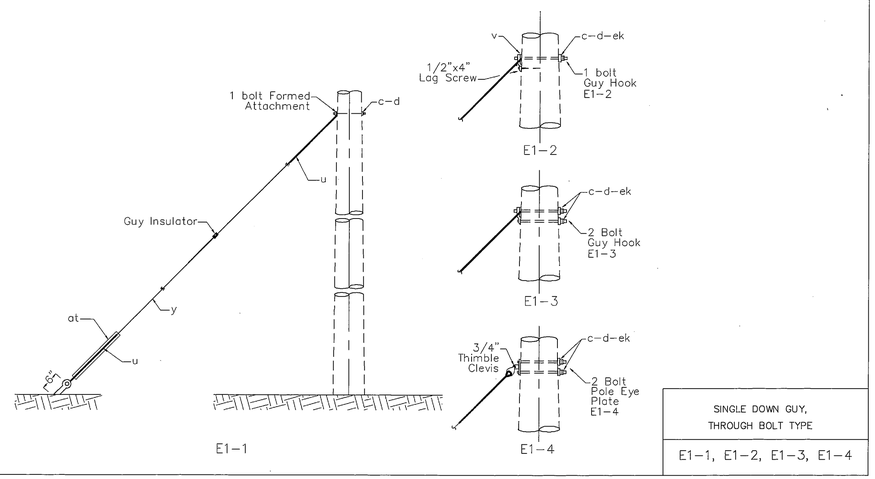
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

NOTES:

1. SIDEWALK GUY REQUIRES A STRUT CONSISTING OF 2 1/2" GALV. STEELPIPE AND END FITTINGS.

			ASSEMBLY UNIT			
			E1–1	E1–2	E1–3	E1–4
		GUY WIRE/ATTACHMENT STRENGTH	5400	10400	16200	22500
ITEM	QTY.	MATERIAL	No.Req'd	No.Req'd	No.Req'd	No.req'd
c		Bolt, machine, req'd length	1–5/8	1–3/4	2–3/4	2–3/4
ck		Clamp, Anchor rod bonding	1	1	1	1
d		Washer, curved	3" x 3"	4" x 4"	2–3"x3" HD	2–4"x4" HD
at		Guy Guard 8'–0" Plastic	1	1	1	1
ek		Locknuts, as req'd	–	–	–	–
u		Preformed Deadend for Guy strand	4	4	4	4
v		Guy attachment Type	Formed	Guy Hook	Guy Hook	Guy Plate HD
y		Guy wire, Utilities Grade, 7 strand,				
		req'd length	5/16"	3/8"	7/16"	1/2"
		Screw, lag Thimble Clevis		1–1/2" Lag		1–3/4" Clevis
		Guy Insulator, ANSI Type	54–1	54–2	54–3	FG ROD



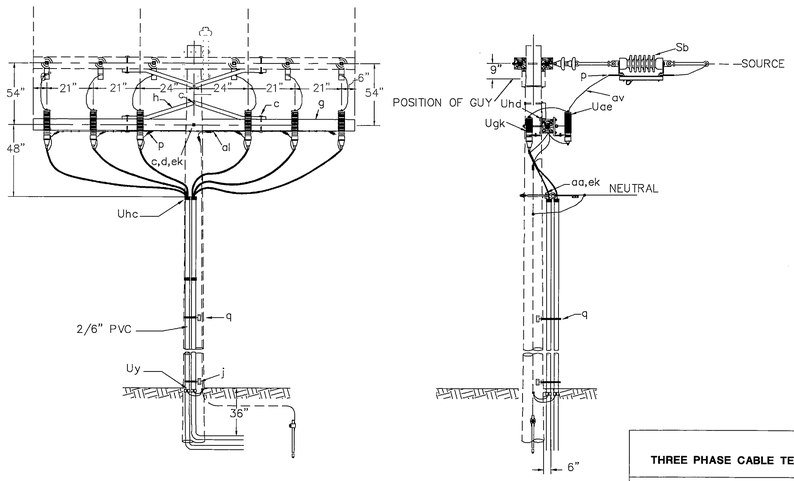
SINGLE DOWN GUY, THROUGH BOLT TYPE

E1–1, E1–2, E1–3, E1–4

NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL
3. 10' SPACING BETWEEN STANDOFF BRACKETS
4. THE FIRST 10' OF RISER FROM GROUND LEVEL WILL BE RIGID STEEL CONDUIT. ALSO 90° ELBOW WILL BE RIGID STEEL CONDUIT.
5. BOND RIGID STEEL CONDUIT TO POLE GROUND

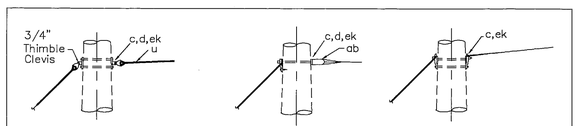
ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x required length.
d	3	Washer, square 2 1/4".
g	1	Crossarm, 3 5/8" x 4 5/8" x 12'–0"
c	2	Bolt, machine, 1/2" x required length.
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
q		Stand off brackets/6" straps as req'd
al		Staples, as required.
av		Jumpers, as required.
h	1	Brace, HD Wood, 72" Span, 22" Drop
ek		Locknuts, as required.
Uae	6	Surge arrester
Ugk	6	Cable termination.
Uhc	2	Cable support.
Uhd	6	Crossarm mounting bracket.
Uy	2	Conduit Grounding Clamp
Sb	6	600A Line disconnect switches
		Kearney DIL or equal

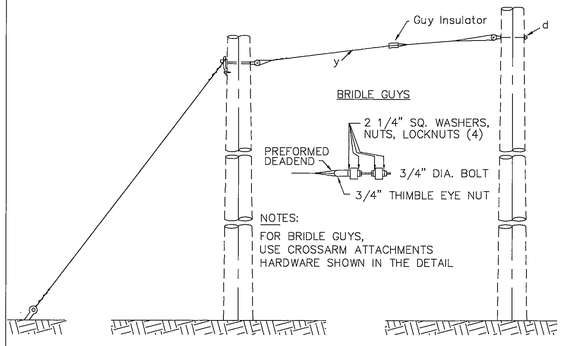


THREE PHASE CABLE TERMINAL POLE

DC-UC3

P:\SM\70606#94\PLANSET\#SHT89

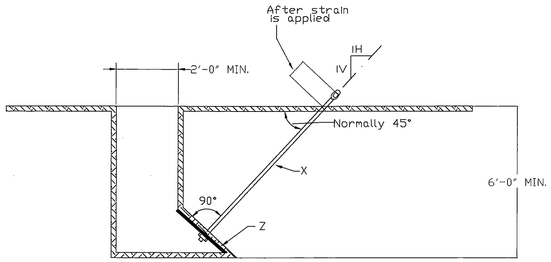




			ASSEMBLY UNIT			
			E2–1	E2–2	E2–3	E2–4
		GUY WIRE/ATTACHMENT STRENGTH	5400	10400	16200	22500
ITEM	QTY	MATERIAL	No.Req'd	No.Req'd	No.Req'd	No.req'd
c		Bolt, machine, req'd length	1–5/8"	1–3/4"	4–3/4"	4–3/4"
d		Washer, curved	3" x 3"	4" x 4"	2–3"x3" HD	2–4"x4" HD
u		Preformed Deadend for Guy strand	4	4	4	4
ab		Nut, thimble eye	1–5/8"	1–3/4"	–	–
ao		Bolt, thimble type eye	1–5/8"	1–3/4"	–	–
ek		Locknuts, as req'd	–	–	–	–
–		Thimble Clevis	–	–	–	1–3/4" Clevis
–		Guy attatchment	–	–	2 Guy Hooks	2 Guy Plates HD
–		Guy insulators, ANSI Type	54–1	54–2	54–3	FG ROD
y		Guy wire, Utilities Grade, 7 strand, req'd length	5/16"	3/8"	7/16"	1/2"

12.5/7.2 kV INSULATED SINGLE OVERHEAD GUY THROUGH BOLT TYPE

E2–1,E2–2,E2–3,E2–4



			ASSEMBLY UNIT		
			F1–2P	F1–3P	F1–4P
		RATING (lbs) CLASS 6 SOIL	12,000	18,000	24,000
ITEM		MATERIAL	12,000	18,000	24,000
X		Anchor rod, triple eye	3/4"x8'–0"	1"–8'–0"	1"–8'–0"
Z		Plate anchor, cross sectional area	150 sq in.	250 sq in	400 sq in.

PLATE ANCHOR ASSEMBLIES

F1-2P,F1-3P,F1-4P

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
EE–5604
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	8-08-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA HALIBUT POINT ROAD
NH 099–3(3) 70606

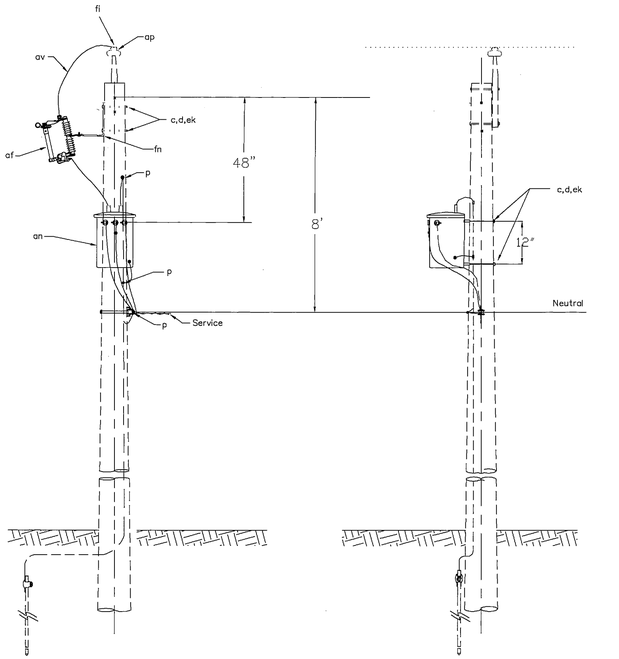
DETAILS: SHEET 3 of 7

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886–203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	89

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

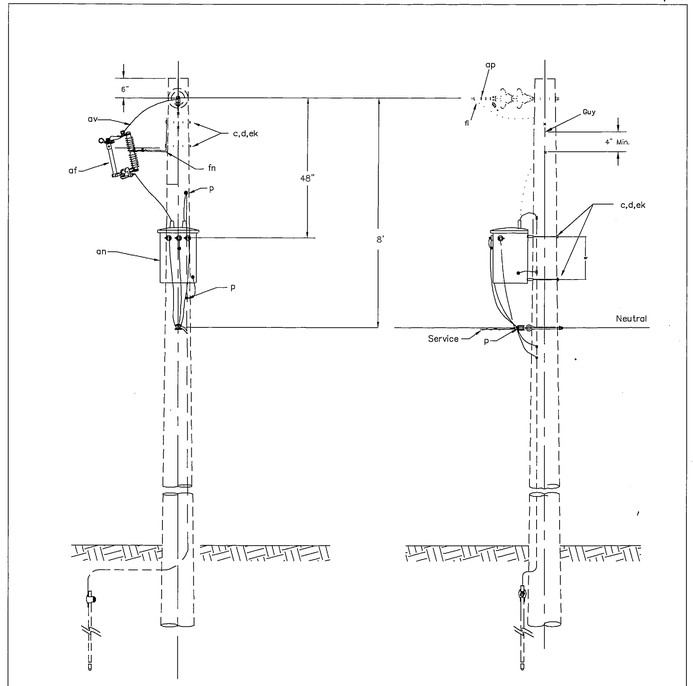
PROJECT DESIGNATION	YEAR
70606	1993



ITEM	QTY.	MATERIAL
c	4	Bolt, machine, 5/8" x req'd length
d	4	Square washer 2-1/4"x2-1/4"x req'd length
p		Connectors, as req'd
af	1	Cutout fuse
an	1	Transformer
ap	1	Hotline clamp
av	–	Jumper
fi	1	Hotline connector
fn	1	Bracket, cutout extension
ek		Locknuts, as req'd

12.5/7.2 kV SINGLE PHASE TRANSFORMER AT 1-PHASE TANGENT

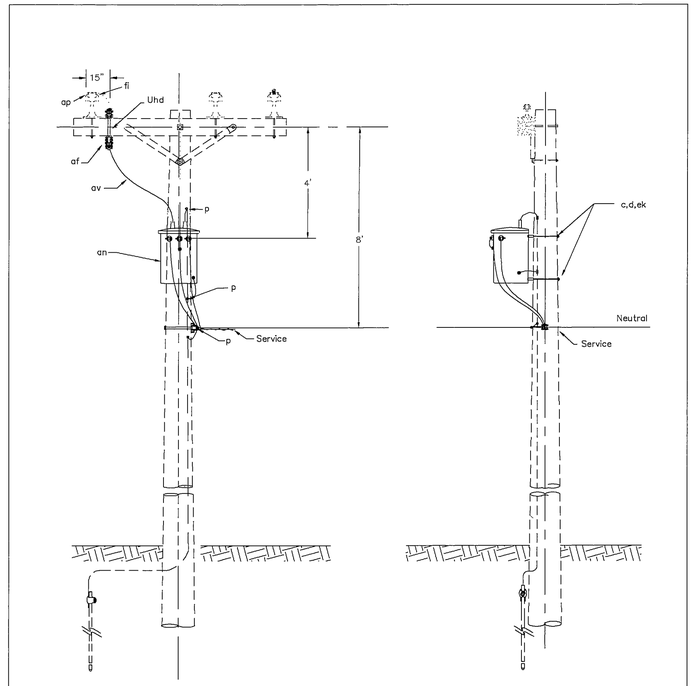
G-105



ITEM	QTY.	MATERIAL
c	4	Bolt, machine, 5/8" x req'd length
d	4	Square washer
p		Connectors, as req'd
af	1	Cutout fuse
an	1	Transformer
ap	1	Hotline clamp
av	–	Jumper
fi	1	Hotline connector
fn	1	Bracket, cutout extension
ek		Locknuts, as req'd

12.5/7.2 kV SINGLE PHASE TRANSFORMER AT DEADEND

G-106



ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x req'd length
d	2	Square washer
p		Connectors, as req'd
af	1	Cutout fuse
ap	1	Hotline clamp
av	–	Jumper
fi	1	Hotline connector
ek	4	Locknuts, as req'd
Uhd	1	Cross arm mounting bracket

12.5/7.2 kV SINGLE PHASE TRANSFORMER ON THREE PHASE CIRCUIT

G-136

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\#SHT90

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA HALIBUT POINT ROAD
NH 099-3(3) 70606
DETAILS: SHEET 4 of 7

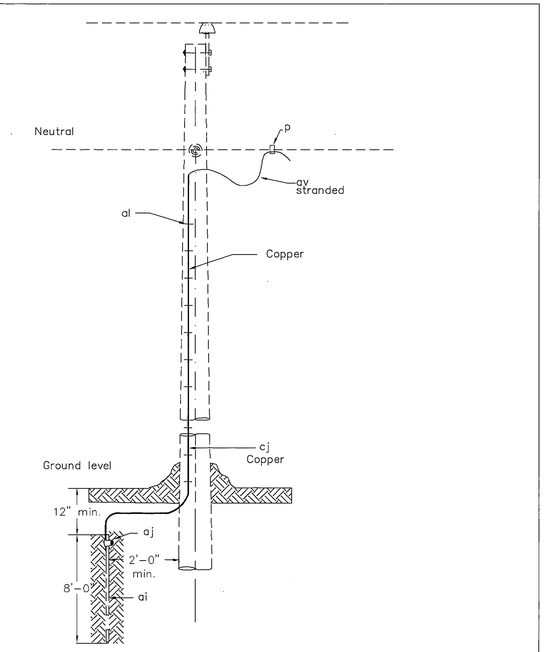
NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 90

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993



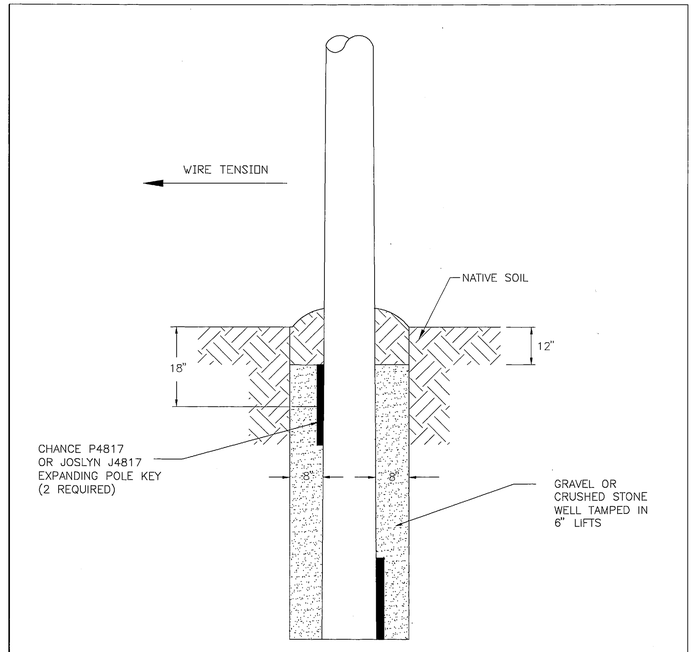
NOTES:

1. GROUND WIRE TO BE LOCATED ON SAME SIDE AS NEUTRAL CONDUCTOR AND IN QUADRANT OPPOSITE CLIMBING SPACE OR POLE TOP PIN.
2. STAPLES ON GROUND WIRE SHALL BE 2' APART, EXCEPT FOR A DISTANCE OF 8' ABOVE GROUND AND 8' FROM TOP OF POLE WHERE THEY SHALL BE 6" APART.
3. GROUND WIRE TO CLEAR ALL HARDWARE BY 2" MIN. AND SHALL BE STAPLED TO MAINTAIN THIS POSITION.

ITEM	QTY.	MATERIAL
p		Connector, compression, as req'd
ai	1	Rod, ground, 5/8" dia.
aj	1	Clamp, ground rod wire
al	1	Staples, ground wire (copper) As req'd.
av		Jumper, min No. 6 copper
		As req'd.
cj		Ground wire, minimum No.6 copper
		As req'd.

12.5/7.2 KV GROUNDING ASSEMBLY-GROUND ROD TYPE

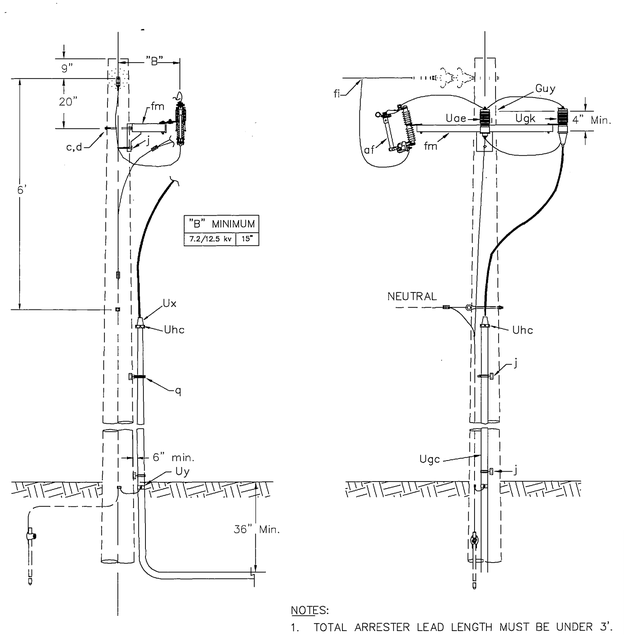
M2-11



TM-101 POLE FOUNDATION STABILIZER

POLE FOUNDATION STABILIZER

TM-101



NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. THE FIRST 10' OF RISER FROM GROUND LEVEL WILL BE RIGID STEEL CONDUIT. ALSO 90° ELBOW WILL BE RIGID STEEL CONDUIT.
4. 10' SPACING BETWEEN RISER BRACKETS.
5. BOND RIGID STEEL CONDUIT TO POLE GROUND.

ITEM	QTY.	MATERIAL
c	1	Bolt, machine, 5/8" x required length.
d	1	Washer, square 2 1/4".
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
q		Stand off bracket w/straps. As req'd
af	1	Cutout (Fuse link.)
av		Jumpers, as required.
ek		Locknuts, as required.
fi	1	Hotline connector
fm	1	Bracket, Combination Mounting, Alumaform 3CA-C or equal.
Uae	1	Surge arrester
Ugc	1	PVC SCHD 80 Conduit
Ugk	1	Cable termination.
Uhc	1	Cable support.
Ux	1	Cable Riser Boot
Uy	1	Conduit Grounding Clamp

UNDERGROUND SOURCE SINGLE PHASE CABLE TERMINAL POLE WITH CUTOUT

UA1

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606#94\PLANSET\#SHT91

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

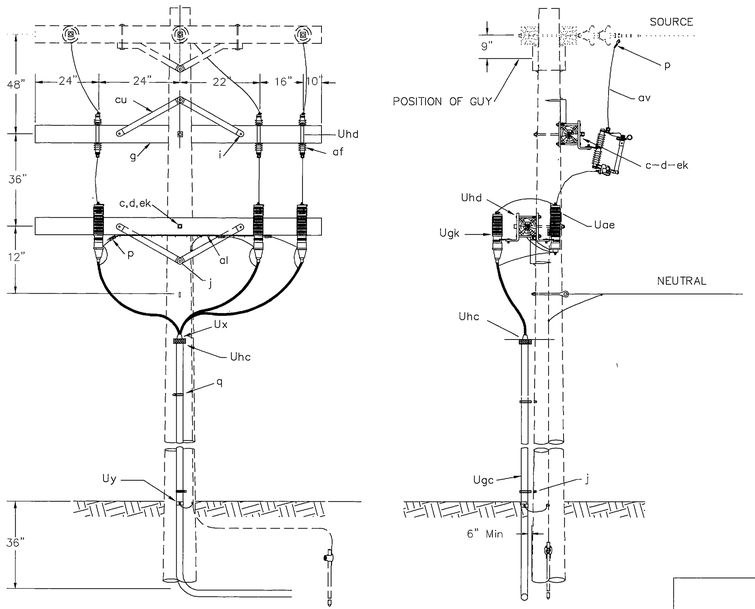
SITKA HALIBUT POINT ROAD
NH 099-3(3) 70606
DETAILS: SHEET 5 of 7

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	91

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

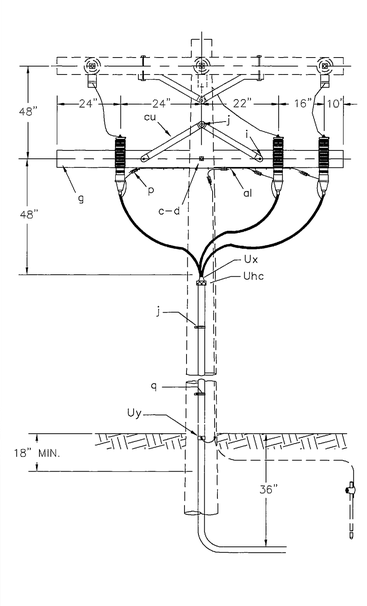


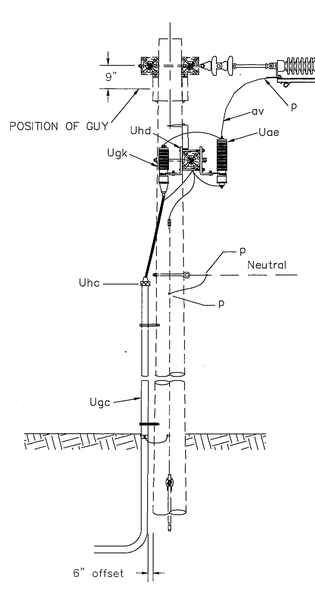
ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x required length.
d	4	Washer, square 2 1/4".
g	2	Crossarm, 3 5/8" x 4 5/8" x 8'-0"
i	4	Bolt, carriage, 3/8" x 4 1/2"
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
q		Stand off bracket/ w straps. As req'd
af	3	Cutout (load break type).
al		Staples, as required.
av		Jumpers, as required.
cu	4	Brace, wood, 28"
ek		Locknuts, as required.
Uae	3	Surge arrester
Ugc	1	PVC SCHD 80 Conduit
Ugk	3	Cable termination.
Uhc	3	Cable support.
Uhd	9	Crossarm mounting bracket.
Ux	1	Cable Riser Boot
Uy	1	Conduit Grounding Clamp

NOTES:
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. THE FIRST 10' OF RISER FROM GROUND LEVEL WILL BE RIGID STEEL CONDUIT. ALSO 90° ELBOW WILL BE RIGID STEEL CONDUIT.
4. 10' SPACING BETWEEN STANDOFFS.
5. BOND RIGID STEEL CONDUIT TO POLE GROUND.
6. INSTALL WARNING SIGN NOTING "HOT" CUTOUT BASE DUE TO UNDERGROUND SOURCE.

THREE PHASE CABLE TERMINAL POLE WITH CUTOUTS

UC1





ITEM	QTY.	MATERIAL
c	1	Bolt, machine, 5/8" x required length.
d	2	Washer, square 2 1/4".
g	1	Crossarm, 3 5/8" x 4 5/8" x 8'-0"
i	2	Bolt, carriage, 3/8" x 4 1/2"
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
q		Standoff bracket w/straps as req'd.
al		Staples, as required.
av		Jumpers, as required.
cu	2	Brace, wood, 28"
ek		Locknuts, as required.
Uae	3	Surge arrester
Ugc		PVC SCHD 80 conduit
Ugk	3	Cable termination.
Uhc	3	Cable support.
Uhd	6	Crossarm mounting bracket.
Ux	1	Cable Riser Boot
Uy	1	Conduit Grounding Clamp
Sb	3	600A Line Disconnect Switch
		Kearney DIL or equal

NOTES:
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. THE FIRST 10' OF RISER FROM GROUND LEVEL WILL BE RIGID STEEL CONDUIT. ALSO 90° ELBOW WILL BE RIGID STEEL CONDUIT.
4. 10' SPACING BETWEEN STANDOFFS.
5. BOND RIGID STEEL CONDUIT TO POLE GROUND.

THREE PHASE CABLE TERMINAL POLE

UC3

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606#94\PLANSET\#SHT92

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	8-08-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

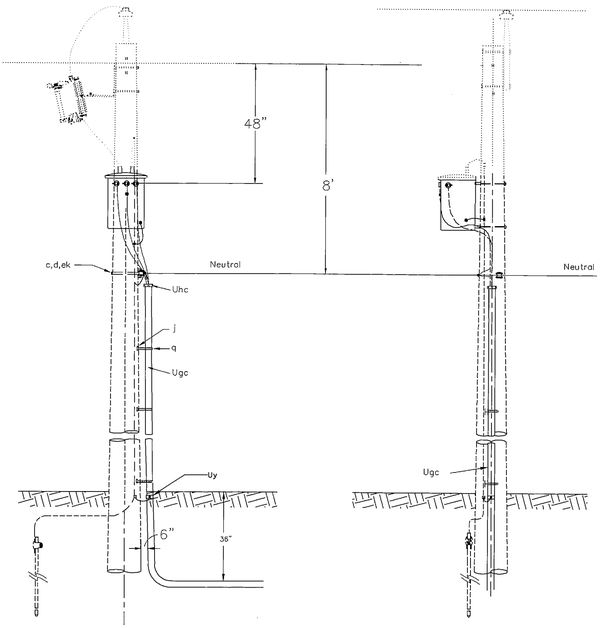
SITKA HALIBUT POINT ROAD
NH 099-3(3) 70606
DETAILS: SHEET 6 of 7

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	92

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993



NOTES:

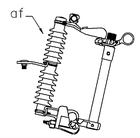
1. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
2. THE FIRST 10' OF RISER FROM GROUND LEVEL WILL BE RIGID STEEL CONDUIT. ALSO, 90° ELBOW WILL BE BE RIGID STEEL CONDUIT.
3. BOND RIGID STEEL CONDUIT TO POLE GROUND.

ITEM	QTY.	MATERIAL
j		Lag screw, as req'd
q		Stand off bracket/with straps as req'd
		10' spacing
Ugc	1	PVC SCHD 80 Conduit
Uhc	1	Cable support.
Uy	1	Conduit Grounding Clamp

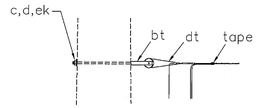
SECONDARY CABLE TERMINAL POLE

UM5

M5-9
LOAD BREAK CUTOUT
(Fuse link type)



K-11C
SERVICE CONNECTION



ITEM	QTY.	MATERIAL
c	1	Bolt, machine, 5/8" x required length.
d	1	Washer, square 2 1/4". 3/16" hole
bt	1	Clevis type, insulated
dt	1	Service deadend, wedge type
ek		Locknuts, as req'd.

MISCELLANEOUS ACCESORIES

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606894\PLANSET\#SHT93

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA HALIBUT POINT ROAD
DETAILS: SHEET 7 of 7

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 93

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

ELECTRICAL OVERHEAD SYSTEM REMOVAL LIST

POLE NUMBER	STA.	LOCATION	POLE HT./ CLASS	PRIMARY ASSEMBLY	PRIMARY CONDUCTOR	PRIMARY SPAN	SECONDARY ASSEMBLY	SECONDARY CONDUCTOR	SECONDARY SPAN	GUYS	ANCHORS	RISER ASSEMBLY	TRANS.	STREET LIGHT	SWITCH	NEUTRAL CONDUCTOR	NEUTRAL SPAN	NOTES
PTI POLE	26+00	Beside H+R Block Bldg.	–	–	–	–	–	–	–	–	–	–	–	M26–5	–	–	–	–
PTI POLE	28+00	South side of H+R Block bldg.	–	–	–	–	–	–	–	–	–	–	–	M26–5	–	–	–	–
PTI POLE	29+00	HPR	–	–	–	–	K11C	#4 Duplex	150'	–	–	–	–	M26–5	–	–	–	–
PTI POLE	30+50	HPR	–	–	–	–	K11C	#4 Duplex	150'	–	–	–	–	M26–5	–	–	–	–
PTI POLE	32+00	HPR	–	–	–	–	K11C	–	–	–	–	–	–	M26–5	–	–	–	–
PTI POLE	34+25	HPR	–	–	–	–	K11C	#4 Tri	200'	–	–	–	–	M26–5	–	–	–	–
–	35+00	502 HPR	–	–	–	–	3/K11C	1/0 Tri	100'	–	–	25' 1 1/2" RGS	–	–	–	–	–	Pull Pole
PTI POLE	35+75	HPR	–	–	–	–	3/K11C	1/0 Tri #4 Tri	270' 250'	–	–	–	–	M26–5	–	–	–	–
–	36+50	BETW. 504&506 HPR	–	–	–	–	2/K11C	1/0 Tri	180'	–	–	–	–	–	–	–	–	Pull Pole
PTI POLE	37+00	HPR	–	–	–	–	2/K11C	#4 Tri	150'	–	–	–	–	–	–	–	–	–
PTI POLE	38+00	HPR	35/5	–	–	–	2/K11C	#2 Tri #4 Tri	200' 150'	2/E1–2	2/FI–4P	–	–	M26 (LARGE ST. LIGHT)	–	–	–	Pull Pole
02061	38+50	MARINE ST.	50/3	C7/C2	3ø,2/0 ACSR 3ø,397.5 AAC	40' 40'	K11C	1/0 Tri	60'	E2–2	–	–	–	–	–	–	–	–
N2061	39+00	MARINE ST./ HPR	35/5	–	–	–	2/K11C	1/0 Tri #2 Tri #4 Tri	130' 65' 95'	–	–	–	–	–	–	–	–	Pull Pole
N2071	39+50	S. LAKEVIEW/ HPR	50/2	C8/A7	3ø,2/0 ACSR 1ø,#4 ACSR	170' 180'	2/K11C	1/0 Tri #2 Tri #4 Tri	305' 170' 90'	3/E1–2	2/FI–4P	–	–	M26 (LARGE ST. LIGHT)	M5–9	1/0 ACBR #4 ACSR	170' 180'	Pull Pole
N1111	39+00	S. LAKEVIEW ST.	40/3	A1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M2111	42+00	CRABAPPLE/HPR	45/5	C1–1/A5	3ø,2/0 ACSR 1ø,#4 ACSR	200' 50'	3/K11C	1/0 Tri #4 Tri	200' 200'	E2–1 2/E2–2	–	20' 1" RGS (W/METER CAN)	–	M26 (LARGE ST. LIGHT)	M5–9	1/0 ACSR #4 ACSR	200' 50'	Pull Pole
GUY STUB	42+00	ACROSS FROM CRABAPPLE DR.	30/3	–	–	–	–	–	–	E1–2 (SW)	F1–4P	–	–	–	–	–	–	Pull Pole
L2161	43+50	HPR	40/3	C1–1	3ø,2/0 ASCR	190'	2/K11C w/4 pos. sec. bracket	1/0 Tri #2 Tri #4 Tri	60' 60' 190'	2/E2–2	–	–	–	M26 (LARGE ST. LIGHT)	–	1/0 ACSR	190'	Pull Pole
L3041	43+50	HPR	35/3	–	–	–	2/K11C	#2 Tri	450'	E1–2 (SW)	F1–4P	–	–	–	–	–	–	Pull Pole
	43+25	SCHOOL YARD BESIDE BALL PK.	35/3	–	–	–	K11C	–	–	–	–	–	–	M26–5	–	–	–	Pull Pole
K2161	43+50	N. LAKEVIEW/ HPR	45/3	C1–1/A5	3ø,2/0 ASCR 1ø,#6 Cu	190' 100'	2/K11C w/3 pos. sec. bracket	1/0 Tri #4 Cu open sec. #4 Tri	80' 550' 190'	E2–2	–	–	–	M26 (LARGE ST. LIGHT)	M5–9	1/0 ACSR #6 Cu	190' 100'	Pull Pole
K2071	45+25	N. LAKEVIEW	45/2	A1	1ø,#6 Cu	100'	2/K11C	1/0 Tri	190'	E1–2	F1–4P	30' 2" PVC (sec.)	–	M26–5	–	#6 Cu	100'	Pull Pole
K3014	45+25	HPR	40/3	–	–	–	K11C	–	–	E1–2	F1–4P	10' 1" PVC	–	2 (LARGE BALL FIELD LIGHTS)	–	–	–	Pull Pole
K2131	46+75	HPR	45/3	C1	3ø,2/0 ASCR	180'	2/K11C w/3 pos. sec. bracket	1/0 Tri #4 Cu open sec. #4 Tri	150' 540' 180'	E2–2	–	–	10 KVA	M26 (LARGE ST. LIGHT)	M5–9	1/0 ACSR	180'	Pull Pole
K3014	46+75	HPR	35/2	–	–	–	K11C	#2 Tri	30'	E1–2 (SW)	F1–4P	5' 1" PVC	–	–	–	–	–	Pull Pole
J2161	48+50	HPR	45/3	C1	3ø,2/0 ASCR	190'	2/K11C	1/0 Tri #4 Tri	260' 200'	E2–2	–	–	–	M26–5	–	1/0 ACSR	190'	Pull Pole

(CONTINUED–SEE SHEET 95)

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\ $SHT94

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
OVERHEAD SYSTEM REMOVAL LIST

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789–2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886–203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 94

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE–5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

ELECTRICAL OVERHEAD SYSTEM REMOVAL LIST (Continued)

POLE NUMBER	STA.	LOCATION	POLE HT./ CLASS	PRIMARY ASSEMBLY	PRIMARY CONDUCTOR	PRIMARY SPAN	SECONDARY ASSEMBLY	SECONDARY CONDUCTOR	SECONDARY SPAN	GUYS	ANCHORS	RISER ASSEMBLY	TRANS.	STREET LIGHT	SWITCH	NEUTRAL CONDUCTOR	NEUTRAL SPAN	NOTES
J3041	48+50	HPR	30/2	–	–	–	K11C	#2 Tri	20'	E1–2	F1–4P	25' 2" RGS	–	–	–	–	–	Pull Pole
I2131	49+95	HPR	SERVICE STUB	–	–	–	K11C	–	–	–	–	–	–	–	–	–	–	Pull Pole
I2161	50+00	HPR	45/3	C1	3ø,2/0 ACSR	180'	K11C	#2 Tri	30'	–	–	–	–	–	–	1/0 ACSR	180'	Pull Pole
H2151	51+75	MOLLER /HPR	55/2	C1/C7/A5	3ø,2/0 ACSR 3ø,397.5 AAC 1ø,#4 ACSR	180' 120' 200'	2/K11C	1/0 Tri #2 Tri	180' 210'	E1–2	F1–4P	30' 2" RGS	–	–	–	4/0 ACSR 1/0 ACSR #4 ACSR	120' 180' 200'	Pull Pole
H2071	51+75	MOLLER	45/3	A7	1ø,#4 ACSR	200'	–	–	–	–	–	–	37.5 KVA	–	–	–	–	–
H2031	51+75	MOLLER	45/3	A7	–	–	–	–	–	–	–	–	–	–	–	–	–	–
H3081	52+00	KATLIAN /HPR	50/3	C8/8' STEEL ARM	–	–	–	–	–	E1–2 E1–2 (SW)	2/F1–4P	–	–	–	3ø PRI. OPEN BLADE SW (600 AMP)	–	–	–
I4011	52+00	KATLIAN	50/1	C1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
H2091	52+75	MOLLER/ HPR	45/3	C1	3ø,2/0 ACSR	90'	K11C	1/0 Tri	90'	–	–	30' 1" RGS	–	M26 (LARGE ST. LIGHT)	–	1/0 ACSR	90'	Pull Pole
G2111	53+75	HPR	40/3	C1	3ø,2/0 ACSR	90'	2/K11C	1/0 Tri	290'	–	–	–	10 KVA	M26–5	M5–9	1/0 ACSR	90'	Pull Pole
G2091	55+25	HPR	40/3	C1	3ø,2/0 ACSR	180'	2/K11C	1/0 Tri	190'	–	–	–	15 KVA	M26–5	M5–9	1/0 ACSR	180'	Pull Pole
G3021	55+50	HPR	35/2	–	–	–	K11C	#2 Tri	90'	–	–	–	–	–	–	–	–	Pull Pole
F2191	56+75	HPR	55/3	C1/C7	3ø,2/0 ACSR 3ø,#2 ACSR	150' 80'	2/K11C	1/0 Tri	260'	–	–	–	–	M26 (LARGE ST. LIGHT)	3/M5–9	1/0 ACSR #2 ACSR	150' 80'	Pull Pole
F2131	56+50	HPR	55/3	C7	–	–	K11C	2/0 QUAD 1/0 Tri	120' 120'	2/E1–2	2/FI–4P	–	3/50 KVA	M26–5	–	–	–	Pull Pole
F2010	56+75	MOORE CLINIC PARKING LOT	30/3	–	–	–	K11C	1/0 Tri	60'	–	–	–	–	M26–5	–	–	–	–
E2101	58+50	HPR	55/3	C7	–	–	K11C	–	–	E1–2 (SW)	F1–4P	45' 3" PVC	–	M26–5	3/M5–9	–	–	Pull Pole
E2061	59+25	HPR/BRADY	45/3	C1/C1–1	3ø,2/0 ACSR 3ø,1/0 ACSR	230' 200'	3/K11C	1/0 Tri	300'	–	–	–	50 KVA	M26–5	M5–9	1/0 ACSR #2 ACSR	230' 200'	Pull Pole
E1091	59+25	BRADY ST.	45/2	C1	–	–	K11C	–	–	–	–	–	–	–	–	–	–	–
D2051	60+55	HPR	45/2	C1	3ø,2/0 ASCR	180'	4/K11C	2/0 QUAD 1/0 Tri	380' 520'	–	–	5' 1" PVC	3/15KVA	M26–5	3/M5–9	1/0 ACSR	180'	Pull Pole
C2061	62+25	PETERSON/ HPR	55/1	C1/C7	3ø,2/0 ASCR 3ø,397.5 AAC	160' 75'	K11C	1/0 Tri	160'	–	–	5' 1" PVC	–	M26–5	3/M5–9	4/0 ACSR 1/0 ACSR	75' 160'	Pull Pole
C1141	62+25	PETERSON	55/2	C7	3ø, #2URD	200'	–	–	–	–	–	35' 4" PVC	–	–	–	–	–	–
B2021	64+00	HPR	50/3	C7	3ø,2/0 ACSR	240'	–	–	–	–	–	–	–	–	–	–	–	–

AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson EE-5604
REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606$94\PLANSET\$SHT95

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT–ERLER TO PETERSON IMPROVEMENTS
NH 099–3(3) 70606
OVERHEAD SYSTEM REMOVAL LIST

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789–2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886–203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 95

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

ELECTRIC CABLE SCHEDULE PRIMARY (Source-S)

Cable No.	No. of Cond.	Conductor Size	Type	Circuit Length (ft)	From	To	Routing
S100	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	90'	New Pole PP1	Elect Switch ES 1	S-001
S101	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	90'	New Pole PP1	Elect Switch ES 2	S-002
S102	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	90'	Existing Pole H3081	Elect Switch ES 3	S-003
S103	3	2/0 cu	15kv	90'	New Pole PP6	Elect Switch ES 4	S-004
S104	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	135'	Existing Pole C1141	Elect Switch ES 5	S-005
S105	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	90'	New Pole PP7	Elect Switch ES 6	S-006

ELECTRIC CABLE SCHEDULE PRIMARY (Express Feeder-EX)

Cable No.	No. of Cond.	Conductor Size	Type	Circuit Length (ft)	From	To	Routing
EX100	3	500 kcm cu	15kv	3010'	Elect Switch ES 2	Elect Switch ES 6	ES 2, EX-001, EM 1, EX-002, EM 2
	1 (Neut)	2/0 cu	600v XHHW	3010'			EX-003, EM 3, EX-004, EM 4, EX-005 EM 5, EX-006, EM 6, EX-008, EM 7 EX-010, ES 6
EX101	3	2/0 cu	15kv	255'	Elect Manhole EM 6	Elect Switch ES 4	EX-007
EX102	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	95'	Elect Manhole EM 7	Elect Switch ES 5	EX-009

ELECTRIC CABLE SCHEDULE PRIMARY (Local Feeder-LF)

Cable No.	No. of Cond.	Conductor Size	Type	Circuit Length (ft)	From	To	Routing
LF100	3 1 (Neut)	500 kcm cu 2/0 cu	15kv 600v XHHW	2810'	Elect Switch ES 1	Elect Switch ES 5	ES 1, LF-002, EM 1, LF-005 EM2, LF-007, EM 3, LF-011 EM 4, LF-012, EM 5, LF-016 EM 6, LF-021, EM 7, LF-023, ES 5
LF101	1	#2cu	15kv	350'	Elect Manhole EM 1	Elect Transformer ET 1	LF-001
LF102	1	#2cu	15kv	135'	Elect Manhole EM 1	Elect Transformer ET 2	LF-004
LF103	1	2/0cu	15kv	415'	Elect Manhole EM 1	New Pole N1041	LF-003
LF104	1	2/0cu	15kv	245'	Elect Manhole EM 2	New Pole PP3	LF-006
LF105	1	#2cu	15kv	130'	Elect Manhole EM 2	Elect Transformer ET 3	LF-008
LF106	1	#2cu	15kv	160'	Elect Manhole EM 3	Elect Transformer ET 4	LF-010
LF107	1	2/0cu	15kv	355'	Elect Manhole EM 3	New Pole PP4	LF-009
LF108	1	#2cu	15kv	180'	Elect Manhole EM 4	Elect Transformer ET 5	LF-013
LF109	3	500 kcm cu	15kv	110'	Elect Manhole EM 4	Elect Switch ES 3	LF-014
	1 (Neut)	2/0 cu	600v XHHW				
LF110	1	#2cu	15kv	345'	Elect Transformer ET 5	Elect Transformer ET6	LF-015
LF111	3	2/0cu	15kv	70'	Elect Manhole EM 5	Elect Pull Box EP 9	LF-017
LF112	3	#2cu	15kv	255'	Elect Pull Box EP 9	Elect Pull Box EP 10	LF-018
LF113	1	#2cu	15kv	50'	Elect Pull Box EP 9	Elect Transformer ET 7	LF-024
LF114	3	#2cu	15kv	40'	Elect Pull Box EP 9	Elect Transformer ET 8	LF-025
LF115	3	#2cu	15kv	EX. CABLE	Elect Pull Box EP 10	Existing Elect Trans True Value	LF-026
LF116	3	2/0cu	15kv	90'	Elect Manhole EM 6	Elect Pull Box EP 11	LF-019
LF117	3	2/0cu	15kv	205'	Elect Pull Box EP 11	Elect Switch ES 4	LF-020
LF118	1	#2cu	15kv	50'	Elect Pull Box EP 11	Elect Transformer ET 9	LF-027
LF119	3	#2cu	15kv	60'	Elect Pull Box EP 11	Elect Transformer ET 10	LF-028
LF120	3	#2cu	15kv	85'	Elect Manhole EM 7	Existing Transformer At McDonald's	LF-022

ELECTRIC CABLE SCHEDULE SECONDARY (Power-P)

Cable No.	No. of Cond.	Conductor Size	Type	Circuit Length (ft)	From	To	Routing
P100	3	2-2/0cu, 1-1cu	600v	175'	Elect Transformer ET 1	Elect Pull Box EP 2	P-001
P101	3	2-4/0cu, 1-2/0cu	600v	110'	Elect Transformer ET 1	Elect Pull Box EP 3	P-002
P102	2	2-#6cu	600v	130'	Elect Transformer ET 2	Elect Manhole EM 1 Sump Pump	P-004
P103	3	2-4/0cu, 1-2/0cu	600v	150'	Elect Transformer ET 2	507/509 HPR (Duplex)	P-005
P104	2	2-#6cu	600v	130'	Elect Transformer ET 3	Elect Manhole EM 2 Sump Pump	P-006
P105	3	2-4/0cu, 1-2/0cu	600v	155'	Elect Transformer ET 3	Elect Pull Box EP 4	P-007
P106	3	2-4/0cu, 1-2/0cu	600v	130'	New Pole PP4	Elect Pull Box EP 5	P-008
P107	3	2-2/0cu, 1-1cu	600v	105'	Elect Transformer ET 4	Elect Pull Box EP 6	P-009
P108	2	2-#6cu	600v	105'	Elect Pullbox EP6	Elect Manhole EM 3 Sump Pump	P-010
P109	3	2-#2cu, 1-#4cu	600v	210'	Elect Pull Box EP 6	Grocery Sign	P-011
P110	3	2-#6cu, 1-#8cu	600v	50'	Traffic Signal Meter	Traffic Counter Controller	
P111	2	2-#6cu	600v	190'	Elect Transformer ET 5	Elect Manhole EM 4 Sump Pump	P-013
P112	3	2-#2cu, 1-#4cu	600v	153'	Elect Transformer ET 5	Concession Moller Park	P-014
P113	3	2-4/0cu, 1-2/0cu	600v	145'	Elect Transformer ET 5	Elect Pull Box EP 7	P-015
P114	3	2-2/0cu, 1-1cu	600v	200'	Elect Transformer ET 6	Existing Pole H2031	P-016
P115	2	2-#6cu	600v	55'	Elect Transformer ET 7	Elect Manhole EM 5 Sump Pump	P-019
P116	3	2-2/0cu, 1-1cu	600v	236'	Elect Transformer ET 7	Moore Clinic	P-020
P117	3	2-500cu, 1-350cu	600v	140'	Elect Transformer ET 7	Elect Pull Box EP 8	P-017
P118	2	2-#6cu	600v	110'	Elect Transformer ET 9	Elect Manhole EM 6 Sump Pump	P-024
P119	3	2-500cu, 1-350cu	600v	110'	Elect Transformer ET 9	Elect Pull Box EP 12	P-021
P120	4	3-2/0cu, 1-1cu	600v	110'	Elect Transformer ET 10	Elect Pull Box EP 12	P-022
P121	4	3-250cu, 1-3/0cu	600v	110'	Elect Transformer ET 10	Elect Pull Box EP 12	P-023
P122	2	2-#6cu	600v	110'	Existing McDonalds Trans	Elect Manhole EM 7 Sump Pump	P-025
P123	3	2-2/0cu, 1-1cu	600v	160'	Elect Transformer ET 2	N1111	P-026

ELECTRIC CABLE SCHEDULE SECONDARY (Service-SE)

Cable No.	No. of Cond.	Conductor Size	Type	Circuit Length (ft)	From	To	Routing
SE100	3	2-2/0cu, 1-1cu	600v	100'	Electric Pull Box EP 2	502 HPR	
SE101	3	2-2/0cu, 1-1cu	600v	90'	Elect Transformer ET 1	504 HPR	
SE102	3	2-2/0cu, 1-1cu	600v	100'	Electric Pull Box EP 3	506 HPR	
SE103	3	2-4/0cu, 1-2/0cu	600v	70'	Electric Pull Box EP 3	508 HPR (Church)	
SE104	3	2-#2cu, 1-#4cu	600v	110'	Existing Pole 02061	St Light Controller	
SE105	3	2-2/0cu, 1-1cu	600v	130'	Elect Transformer ET 2	514 HPR (Church)	
SE106	3	2-2/0cu, 1-1cu	600v	122'	Elect Transformer ET 3	Ball Field Stand (at High School)	
SE107	3	2-2/0cu, 1-1cu	600v	130'	Electric Pull Box EP 4	602 HPR	
SE108	3	2-2/0cu, 1-1cu	600v	135'	Electric Pull Box EP 4	604 HPR	
SE109	3	2-2/0cu, 1-1cu	600v	130'	Electric Pull Box EP 5	239 N. Lakeview Dr.	
SE110	3	2-2/0cu, 1-1cu	600v	130'	Electric Pull Box EP 5	240 N. Lakeview Dr.	
SE111	3	2-2/0cu, 1-1cu	600v	50'	Elect Transformer ET 5	Traffic Signal Meter	
SE112	3	2-#2cu, 1-#4cu	600v	50'	Elect Transformer ET 5	Hospital Sign Meter	
SE113	3	2-2/0cu, 1-1cu	600v	125'	Electric Pull Box EP 7	201 Moller Dr.	
SE114	3	2-2/0cu, 1-1cu	600v	125'	Electric Pull Box EP 7	203 Moller Dr.	
SE115	3	2-#2cu, 1-#4cu	600v	100'	Electric Pull Box EP 8	Park Office	
SE116	3	2-250cu, 1-3/0cu	600v	110'	Electric Pull Box EP 8	Deweys / Apts	
SE117	4	3-250cu, 1-3/0cu	600v	181'	Elect Transformer ET 7	Pacific View Center	
SE118	3	2-#2cu, 1-#4cu	600v	181'	Elect Transformer ET 8	Pacific View Center	
SE119	3	2-2/0cu, 1-1cu	600v	70'	Elect Transformer ET 9	201 Brady St.	
SE120	3	2-500cu, 1-350cu	600v	80'	Electric Pull Box EP12	DMV / Apts	
SE121	4	3-2/0cu, 1-1cu	600v	80'	Electric Pull Box EP 12	DMV / Apts	
SE122	4	3-250cu, 1-3/0cu	600v	50'	Electric Pull Box EP 12	Old Sears Store	
SE123	3	2-4/0cu, 1-2/0cu	600v	205'	Elect Transformer ET 9	Laundromat	
SE124	4	3-2/0cu, 1-1cu	600v	205'	Elect Transformer ET 10	Laundromat	
SE125	3	2-2/0cu, 1-1cu	600v	75'	Elect Transformer ET 4	612 HPR	
SE126	3	2-#2cu, 1-#4cu	600v	25'	Electric Pull Box EP 6	Rock Rack Sign	
SE127	3	2-2/0cu, 1-1cu	600v	50'	Elect Transformer ET 6	Health Center	

ELECTRIC CABLE SCHEDULE SECONDARY (Lighting -L)

Cable No.	# Cond.	Conductor Size	Type	Grounding Conductor	Circuit Length	From	To	Routing
L100	3	3-#6 Cu, jacketed	600v	#8 BCu	552	Street Light 1	Street Light 4	L-001 L-002 L-003
L101	3	3-#6 Cu, jacketed	600v	#8 BCu	554	Street Light 2	Street Light 5	L-002 L-003 L-004
L102	3	3-#6 Cu, jacketed	600v	#8 BCu	563	Street Light 3	Street Light 6	L-003 L-004 L-005
L100	3	3-#6 Cu, jacketed	600v	#8 BCu	575	Street Light 4	Street Light 7	L-004 L-005 L-006
L101	3	3-#6 Cu, jacketed	600v	#8 BCu	613	Street Light 5	Street Light 8	L-005 L-006 L-007 L-008
L102	3	3-#6 Cu, jacketed	600v	#8 BCu	570	Street Light 6	Street Light 9	L-006 L-007 L-008 L-009
L100	3	3-#6 Cu, jacketed	600v	#8 BCu	537	Street Light 7	Street Light 10	L-007 L-008 L-009 L-011
L103	3	3-#6 Cu, jacketed	600v	#8 BCu	527	School Sign 1	Street Light Controller	L-010 L-008 L-009 L-011 L-012
L101	3	3-#6 Cu, jacketed	600v	#8 BCu	382	Street Light 8	Street Light Controller	L-009 L-011 L-012
L102	3	3-#6 Cu, jacketed	600v	#8 BCu	230	Street Light 9	Street Light Controller	L-011 L-012
L104	3	3-#6 Cu, jacketed	600v	#8 BCu	75	Street Light 10	Street Light Controller	L-012
L105	3	3-#6 Cu, jacketed	600v	#8 BCu	410	Street Light Controller	Street Light 12	L-013 L-014
L106	3	3-#6 Cu, jacketed	600v	#8 BCu	573	Street Light Controller	Street Light 13	L-013 L-014 L-015
L107	3	3-#6 Cu, jacketed	600v	#8 BCu	1122	Street Light Controller	School Sign 2	L-013 L-014 L-015 L-016 L-017
								L-018 L-020
L104	3	3-#6 Cu, jacketed	600v	#8 BCu	250	Street Light Controller	Street Light 11	L-013
L106	3	3-#6 Cu, jacketed	600v	#8 BCu	485	Street Light 11	Street Light 14	L-014 L-015 L-016
L105	3	3-#6 Cu, jacketed	600v	#8 BCu	489	Street Light 12	Street Light 15	L-015 L-016 L-017
L104	3	3-#6 Cu, jacketed	600v	#8 BCu	486	Street Light 13	Street Light 16	L-016 L-017 L-018
L106	3	3-#6 Cu, jacketed	600v	#8 BCu	492	Street Light 14	Street Light 17	L-017 L-018 L-019
L105	3	3-#6 Cu, jacketed	600v	#8 BCu	501	Street Light 15	Street Light 18	L-018 L-019 L-021
L104	3	3-#6 Cu, jacketed	600v	#8 BCu	656	Street Light 16	Street Light 19	L-019 L-021 L-022
L106	3	3-#6 Cu, jacketed	600v	#8 BCu	653	Street Light 17	Street Light 20	L-021 L-022 L-023
L105	3	3-#6 Cu, jacketed	600v	#8 BCu	650	Street Light 18	Street Light 21	L-022 L-023 L-024
L104	3	3-#6 Cu, jacketed	600v	#8 BCu	502	Street Light 19	Street Light 22	L-023 L-024 L-025
L106	3	3-#6 Cu, jacketed	600v	#8 BCu	527	Street Light 20	Street Light 23	L-024 L-025 L-026
L105	3	3-#6 Cu, jacketed	600v	#8 BCu	537	Street Light 21	Street Light 24	L-025 L-027 L-028
L104	3	3-#6 Cu, jacketed	600v	#8 BCu	470	Street Light 22	Street Light 25	L-027 L-029
L106	3	3-#6 Cu, jacketed	600v	#8 BCu	640	Street Light 23	Street Light 26	L-027 L-029 L-030
L107	3	3-#6 Cu, jacketed	600v	#8 BCu	60	Street Light 11	Crosswalk Light 1	L-031
L108	3	3-#6 Cu, jacketed	600v	#8 BCu	70	Crosswalk Light 1	Crosswalk Light 2	L-032
L109	3	3-#6 Cu, jacketed	600v	#8 BCu	25	Street Light 15	Crosswalk Light 3	L-033
L110	3	3-#6 Cu, jacketed	600v	#8 BCu	80	Crosswalk Light 3	Crosswalk Light 4	L-034

NOTE: Each street light requires approximately 60 ft of 3 - #8 Cu jacketed conductor & 1 - #8 Cu Ground.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606$94\PLANSET\$SHT96

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	
	7-22-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL CABLE SCHEDULE

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	96

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

NOTES

1. TELEPHONE MANHOLES SHALL BE UTILITY VAULT 4484 TCA PRECAST CONCRETE VAULT WITH OUTSIDE DIMENSIONS OF 5'-0" x 9'-0" x 7'-2" AND A SOLID ROUND 42" COVER. THE COVER SHALL BE UTILTY VAULT TYPE 4210-S WITH CAST IRON FRAME 4210-4220 MARKED "TELEPHONE". EACH MANHOLE SHALL BE COMPLETE THE FOLLOWING FEATURES:

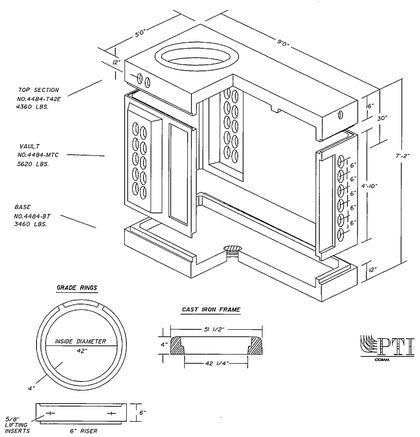
   a) 3/4" GALVANIZED PULLING EYES SHALL BE EMBEDDED IN EACH CORNER.
   b) THREE 6" GRADE RINGS SHALL BE FURNISHED
   c) ONE BOLT ON LADDER SHALL BE FURNISHED
   d) CONDUIT ENTRANCES SHALL BE TERMIDUCTS FOR 4" SCHD 40 PVC CONDUIT
   e) A BUILT IN RACKING PACKAGE SHALL BE FURNISHED INCLUDING "C" CHANNELS EMBEDDED IN EACH WALL AND ONE PULLING IN IRON CAST IN THE WALL OPPOSITE EACH CONDUIT GROUP.

2. ALL MANHOLES SHALL BE GROUTED WITH SINK-A-PLUG OR EQUIVALENT SEALER. INSTALL DUCT SEALS OR PLUGS AS REQUIRED.

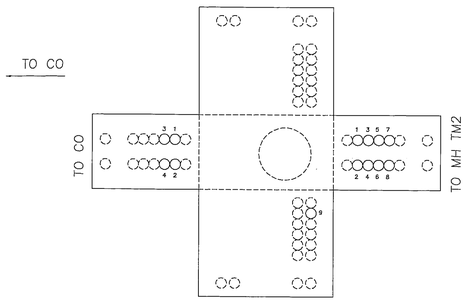
3. EACH MANHOLE SHALL BE INSTALLED AND GROUNDED ACCORDING TO THE DETAILS ON SHEET 98. MANHOLES SHALL BE CENTERED WITHIN THE SIDEWALK UNLESS SHOWN OTHERWISE ON THE PLANS.

TELEPHONE MANHOLE SCHEDULE

NO	STATION	OFFSET
1	38 + 10	20.5' L
2	42 + 01	24' L
3	45 + 91	26' L
4	51 + 06	32' L
5	57 + 03	26' L
6	62 + 38	26' L



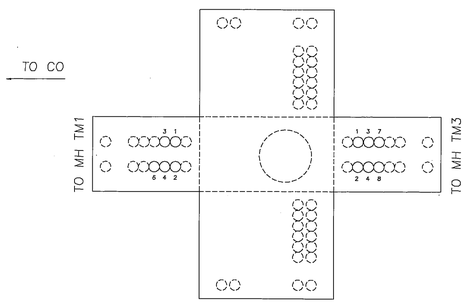
4484 DETAIL



VAULT NO. TM1

TYPE 4484 TCA

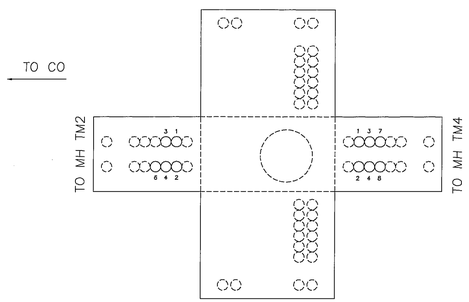
#1 CONTINUOUS 4" PVC (SCHD 40) FROM POLE 359303 TO TM2
#2 CONTINUOUS 4" PVC (SCHD 40) FROM POLE 359303 TO TM2
#3 CONTINUOUS 4" PVC (SCHD 40) FROM POLE 359303 TO TM2
#4 CONTINUOUS 4" PVC (SCHD 40) FROM POLE 359303 TO TM2
#5 4" PVC (SCHD 40) TO PEDESTAL #5
#6 4" PVC (SCHD 40) TO S. LAKEVIEW ST. POLE
#7 4" PVC (SCHD 40) TO MARINE ST. POLE PP-2
#8 2" PVC (SCHD 40) TO PEDESTAL #4
#9 4" PVC (SCHD 40) TO PEDESTAL #3



VAULT NO. TM2

TYPE 4484 TCA

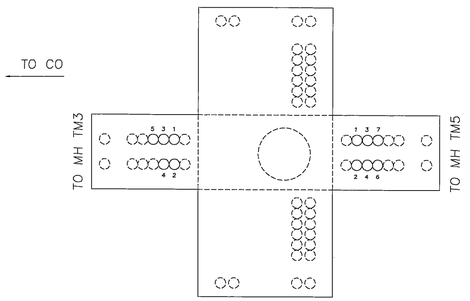
#1 CONTINUOUS 4" PVC (SCHD 40)
#2 CONTINUOUS 4" PVC (SCHD 40)
#3 CONTINUOUS 4" PVC (SCHD 40)
#4 CONTINUOUS 4" PVC (SCHD 40)
#6 4" PVC (SCHD 40) TO CRABAPPLE POLE (PP3)
#7 2" PVC (SCHD 40) TO PEDESTAL #7
#8 4" PVC (SCHD 40) TO PEDESTAL #8



VAULT NO. TM3

TYPE 4484 TCA

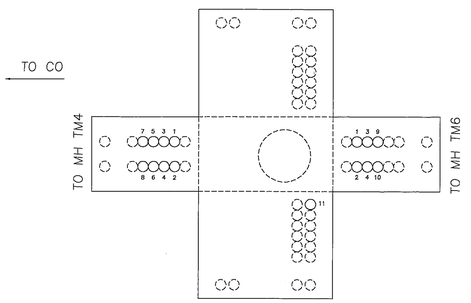
#1 CONTINUOUS 4" PVC (SCHD 40)
#2 CONTINUOUS 4" PVC (SCHD 40)
#3 CONTINUOUS 4" PVC (SCHD 40)
#4 CONTINUOUS 4" PVC (SCHD 40)
#6 4" PVC (SCHD 40) TO N. LAKEVIEW DR. POLE PP4
#7 4" PVC (SCHD 40) TO ROCK RACK/TRAVEL BUREAU
#8 4" PVC (SCHD 40) TO PEDESTAL #10



VAULT NO. TM4

TYPE 4484 TCA

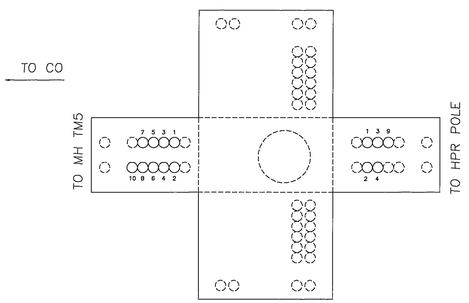
#1 CONTINUOUS 4" PVC (SCHD 40)
#2 CONTINUOUS 4" PVC (SCHD 40)
#3 CONTINUOUS 4" PVC (SCHD 40)
#4 CONTINUOUS 4" PVC (SCHD 40)
#5 2" PVC (SCHD 40) TO STUB OUT AT 50+30
#6 4" PVC (SCHD 40) TO PEDESTAL #11 AT MOLLER POLE (H2031)
#7 4" PVC (SCHD 40) TO KATLIAN POLE (H3081)



VAULT NO. TM5

TYPE 4484 TCA

#1 CONTINUOUS 4" PVC (SCHD 40)
#2 CONTINUOUS 4" PVC (SCHD 40)
#3 CONTINUOUS 4" PVC (SCHD 40)
#4 CONTINUOUS 4" PVC (SCHD 40)
#5 4" PVC (SCHD 40) TO DEWEYS/APTS
#6 4" PVC (SCHD 40) TO PARK OFFICE
#7 4" PVC (SCHD 40) TO PEDESTAL #14
#8 4" PVC (SCHD 40) TO ROAD XING AT 55+40
#9 4" PVC (SCHD 40) TO PEDESTAL #16
#10 4" PVC (SCHD 40) TO BRADY POLE (PP5)
#11 4" PVC (SCHD 40) TO PEDESTAL #15



VAULT NO. TM6

TYPE 4484 TCA

#1 CONTINUOUS 4" PVC (SCHD 40) FROM TM5 TO POLE PP7
#2 CONTINUOUS 4" PVC (SCHD 40) FROM TM5 TO POLE PP7
#3 CONTINUOUS 4" PVC (SCHD 40) FROM TM5 TO POLE PP7
#4 CONTINUOUS 4" PVC (SCHD 40) FROM TM5 TO POLE PP7
#5 4" PVC (SCHD 40) TO SEARS BUILDING
#6 4" PVC (SCHD 40) TO DMV/APARTMENTS
#7 4" PVC (SCHD 40) TO PEDESTAL 19 (MC DONALDS)
#8 4" PVC (SCHD 40) TO PETERSON AVE. POLE (C1141)
#9 2" PVC (SCHD 40) TO HPR POLE PP6
#10 2" PVC (SCHD 40) TO PEDESTAL #18

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\$SHT97

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	7-21-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
TELEPHONE MANHOLE DETAILS

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	97

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

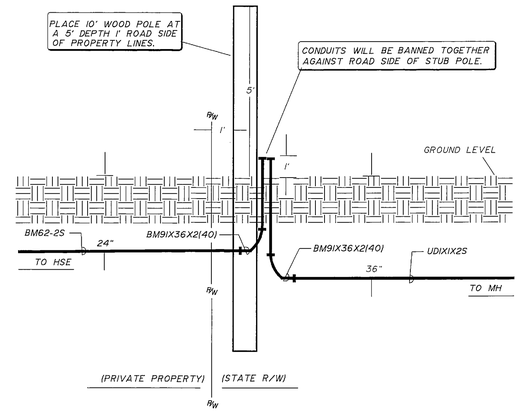
PROJECT DESIGNATION	YEAR
70606	1993

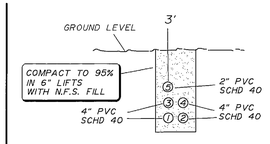
TELEPHONE PEDESTAL SCHEDULE

NUMBER	STATION	OFFSET	GENERAL LOCATION	TYPE	SIZE	CONDUITS	REMARKS	
TELCO 1	35 + 02	26.5' R	HALIBUT POINT ROAD	PEDESTAL		2" PVC (SCHD 40) TO TELCO 2 2" PVC (SCHD 40) TO 502 HPR		
TELCO 2	36 + 36	26.5' R	HALIBUT POINT ROAD	PEDESTAL		2" PVC (SCHD 40) TO TELCO 1 2" PVC (SCHD 40) TO TELCO 3 2" PVC (SCHD 40) TO 504 HPR		
TELCO 3	37 + 15	26.5' R	HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 1 2" PVC (SCHD 40) TO TELCO 2 2" PVC (SCHD 40) TO 506 HPR 2" PVC (SCHD 40) TO 508 HPR (CHURCH)		
TELCO 4	39 + 00	27' L	HALIBUT POINT ROAD	PEDESTAL		2" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 1 2" PVC (SCHD 40) TO 507/509 HPR (DUPLEX)		
TELCO 5	B Line 0 + 50	26' L	S. LAKEVIEW ST.	PEDESTAL		2" PVC (SCHD 40) TO EXISTING S. LAKEVIEW POLE (N 1111) 4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 1 2" PVC (SCHD 40) TO 514 HPR (CHURCH)		
TELCO 6	42 + 00	35' R	CRABAPPLE ST.	PEDESTAL		2" PVC (SCHD 40) TO 201 CRABAPPLE ST. 2" PVC (SCHD 40) TO PP3		
TELCO 7	43 + 05	32' L	HALIBUT POINT ROAD	PEDESTAL		2" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 2 2" PVC (SCHD 40) TO BALLFIELD STAND		
TELCO 8	43 + 62	40' R	HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 2 2" PVC (SCHD 40) TO 602 HPR 2" PVC (SCHD 40) TO 604 HPR		
TELCO 9	D Line 1 + 37	27' L	N. LAKEVIEW ST.	PEDESTAL		2" PVC (SCHD 40) TO PP4 2" PVC (SCHD 40) TO 240 N. LAKEVIEW 2" PVC (SCHD 40) TO 239 N. LAKEVIEW		
TELCO 10	46 + 85	32' R	HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 3 2" PVC (SCHD 40) TO 612 HPR		
TELCO 11			NEXT TO POLE H2031	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 4 2" PVC (SCHD 40) TO EXISTING CONDUIT AT POLE H2031 2" PVC (SCHD 40) TO TELCO 12	INTERCEPT EXISTING CONDUIT	
TELCO 12			MOLLER DRIVE	PEDESTAL		2" PVC (SCHD 40) TO TELCO 11 2" PVC (SCHD 40) TO 201 MOLLER DR. 2" PVC (SCHD 40) TO 203 MOLLER DR.		
TELCO 13	53 + 86	30' L	HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELCO 14 4" PVC (SCHD 40) ROAD CROSSING STUB OUT		
TELCO 14	56 + 40	33' L	HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 5 4" PVC (SCHD 40) TO TELCO 13 4" PVC (SCHD 40) TO PACIFIC VIEW CENTER		
TELCO 15	57 + 08	125' R	MOORE CLINIC	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 5 4" PVC (SCHD 40) TO MOORE CLINIC		
TELCO 16			TRUE VALUE HARDWARE	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 5 4" PVC (SCHD 40) TO HARDWARE STORE		
TELCO 17	59 + 82	32' R	HALIBUT POINT ROAD	PEDESTAL		2" PVC (SCHD 40) TO PP5 2" PVC (SCHD 40) TO 201 BRADY ST. 2" PVC (SCHD 40) TO LAUNDROMAT		
TELCO 18	62 + 18	33' R	HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 6 2" PVC (SCHD 40) TO PETERSON/HPR (APTS) 2" PVC (SCHD 40) TO PETERSON/HPR (APTS)		
TELCO 19 (existing)			HALIBUT POINT ROAD	PEDESTAL		4" PVC (SCHD 40) TO TELEPHONE MANHOLE TM 6 4" PVC (SCHD 40) TO McDONALDS	INTERCEPT EXISTING CONDUIT	

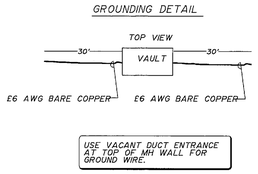
TELEPHONE NOTES

1. CONTRACTOR SHALL INSTALL TELEPHONE CONDUIT SYSTEM, MANHOLES, PULLBOXES, RGS BUILDING STUBUPS, AND WOOD POSTS FOR PEDESTALS. PTI COMMUNICATIONS WILL INSTALL PEDESTALS, TELEPHONE CABLE AND TERMINATIONS UNDER A SEPARATE CONTRACT.
2. CONTRACTOR SHALL INSTALL A TREATED 4" x 6" x 10' – 0" SAWN WOOD POLE AT EACH PEDESTAL LOCATION. A 36 INCH CONDUIT SWEEP SHALL BE USED TO STUB OUT THE CONDUITS AT THE BASE OF THE PEDESTAL. ALL CONDUIT ENDS SHALL BE TEMPORARILY CAPPED. THE PEDESTAL POST SHALL BE SET IN A LOCATION TO MINIMIZE TRAFFIC HAZARD. ALL POSTS SHALL BE PLUMBED AND THROUGHLY TAMPED.
3. INSTALL #6 CU GROUNDING CONDUCTOR TO ELECTRIC POWER SYSTEM GROUND WHEN TELEPHONE FACILITIES ARE LOCATED WITHIN 6 FEET OF ELECTRIC FACILITIES.
4. NOTIFY PTI COMMINCATIONS FOR ASSISTENCE IN INTERCEPTING EXISTING TELEPHONE CONDUITS.
5. 4" SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR ALL CROSSINGS OF HALIBUT POINT ROAD
6. ALL DUCTS SHALL BE RODDED AND CLEANED WITH A TEST MANDREL PER SPECIFICATION 691. ALL DUCTS SHALL INCLUDE PULL STRINGS.
7. ENCASEMENT OF CONDUITS NOT IN THE DUCT BANK WILL CONSIST OF A 4" MINIMUM COVER OVER THE CONDUITS, 1.5" MINIMUM AT THE SIDES AND A 3" MINIMUM FOR THE BASE.
8. SEE SHEET 101 FOR PEDESTAL SPACING AND BUILDING STUBUP DETAIL.

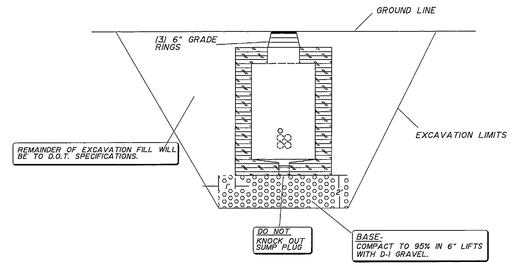




GROUNDING DETAIL



VAULT EXCAVATION DETAIL



AS-BUILT
BY: KK DATE: 3/17/99

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

P:\SIT\70606#94\PLANSET\#~~SHT~~ SHT98

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	7-20-94	
	7-21-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
NH 099—3(3) 70606
TELEPHONE PEDESTAL SCHEDULE

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

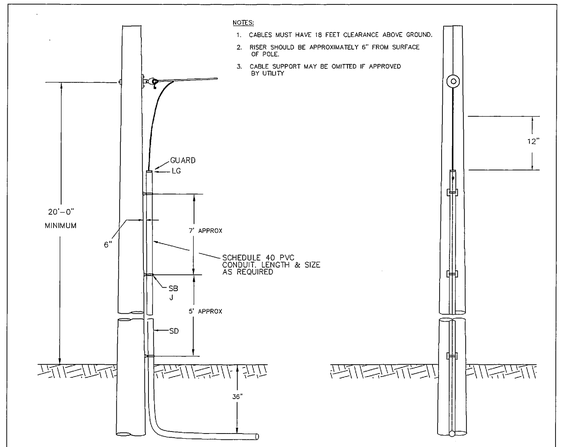
DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	98

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

TELEPHONE/CATV OVERHEAD LINE MODIFICATIONS

POLE						TELEPHONE			CATV			
POLE NUMBER	LOCATION	TELCO POLE HEIGHT/CLASS	TELCO GUY ASSEMBLY	CATV GUY ASSEMBLY	TELCO/CATV ANCHOR	ATTACHMENT	RISER ASSEMBLY	CONDUITS	ATTACHMENT	RISER ASSEMBLY	CONDUITS	REMARKS
359302	HALIBUT POINT ROAD	35-5 (EXISTING)				PTI			ACN			MOVE POLE 2' TOWARD HALIBUT POINT ROAD
359303	MARINE STREET	35-3 NEW	TE1-4		F1-4P	PTI	TUM-5	4" SCHD 40 PVC	ACN			SET NEW POLE 20' BACK TOWARD 359302 FOR ADDITIONAL GUYING AREA
PP 1	MARINE STREET	–	(TE1-2)			PTI			ACN			
PP 2	MARINE STREET	–	TE1-2	2/TE1-2		PTI	TUM-5	4" SCHD 40 PVC	ACN	TUM-5	4" SCHD 40 PVC	USE POWER ANCHOR
359301	NEW ARCHANGEL ST.								ACN	TUM-5	2" SCHD 40 PVC	
N 1041	S. LAKEVIEW STREET	–	TE1-2	TE1-2		PTI	2/TUM-5	4" SCHD 40 PVC 2" SCHD 40 PVC	ACN	TUM-5	4" SCHD 40 PVC	USE POWER ANCHOR
N 1111	S. LAKEVIEW STREET					PTI	TUM-5	2" SCHD 40 PVC				
PP 3	CRABAPPLE STREET	–	TE1-2	TE1-2		PTI	2/TUM-5	4" SCHD 40 PVC 2" SCHD 40 PVC	ACN	TUM-5	2" SCHD 40 PVC	USE POWER ANCHOR
PP 4	N. LAKEVIEW STREET	–	TE1-2	TE1-2		PTI	2/TUM-5	2" SCHD 40 PVC 4" SCHD 40 PVC	ACN	TUM-5	2" SCHD 40 PVC	USE POWER ANCHOR
H 2031	MOLLER DRIVE	–				PTI	TUM-5	2" SCHD 40 PVC	ACN	TUM-5	2" SCHD 40 PVC	
H 3081	KATLIAN STREET	–	(TE1-2)	(TE1-2)		PTI	TUM-5	4" SCHD 40 PVC	ACN	TUM-5	2" SCHD 40 PVC	
PP 5	BRADY STREET	–	TE1-2	TE1-2		PTI	2/TUM-5	4" SCHD 40 PVC 2" SCHD 40 PVC	ACN	TUM-5	2" SCHD 40 PVC	USE POWER ANCHOR
C 1141	PETERSON STREET	–	(TE1-2)	(TE1-2)		PTI	TUM-5	4" SCHD 40 PVC	ACN	TUM-5	4" SCHD 40 PVC	
PP 6	HALIBUT POINT ROAD	–	TE1-2	TE1-2		PTI	2/TUM-5	4" SCHD 40 PVC 2" SCHD 40 PVC	ACN	2/TUM-5	2" SCHD 40 PVC 4" SCHD 40 PVC	USE POWER ANCHOR

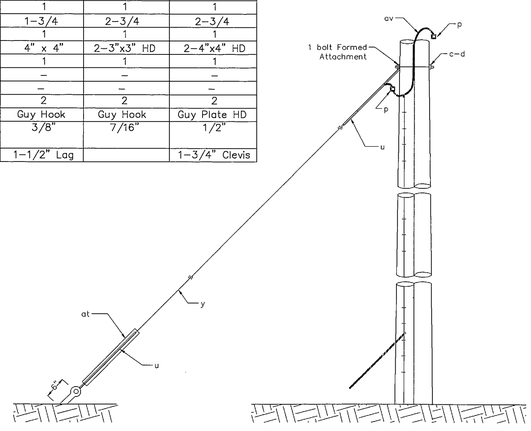


ITEM	QTY.	MATERIAL
SB	3	Stand off Brackets w/Straps as req'd
SD	1	Conduits, Size as required.
LG	2	Guard, leader, plastic
J	–	Lag bolts as req'd

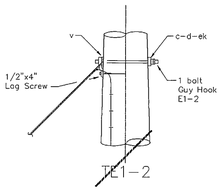
TELEPHONE/CATV CABLE TERMINAL POLE

TUM-5

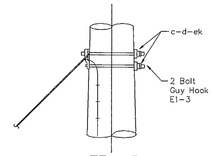
		ASSEMBLY UNIT			
		TE1-1	TE1-2	TE1-3	TE1-4
	GUY WIRE/ATTACHMENT STRENGTH	5400	10400	16200	22500
ITEM	QTY. MATERIAL	No.Req'd	No.Req'd	No.Req'd	No.req'd
av	Jumper, No. 6, req'd length	1	1	1	1
c	Bolt, machine, req'd length	1-5/8	1-3/4	2-3/4	2-3/4
ck	Clamp, Anchor rod bonding	1	1	1	
d	Washer, curved	3" x 3"	4" x 4"	2-3"x3" HD	2-4"x4" HD
at	Guy Guard 8'-0" Plastic	1	1	1	1
ek	Locknuts, as req'd	–	–	–	–
p	Connectors, as req'd	–	–	–	–
u	Preformed Deadend for Guy strand	2	2	2	2
v	Guy attachment Type	Formed	Guy Hook	Guy Hook	Guy Plate HD
y	Guy wire, Utilities Grade, 7 strand, req'd length	5/16"	3/8"	7/16"	1/2"
	Screw, lag Thimble Clevis		1-1/2" Lag		1-3/4" Clevis



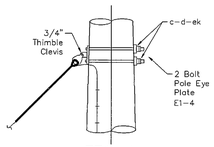
E1-1



TE1-2



TE1-3

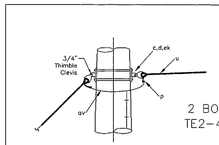


TE1-4

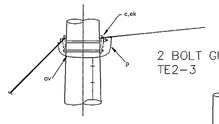
NOTES:
1. GROUNDED GUYS SHALL BE BONDED TO MESSENGER
2. SIDEWALK GUY REQUIRES A STRUT CONSISTING OF 2 1/2" GALV. STEELPIPE AND END FITTINGS.

TELEPHONE/CATV
SINGLE DOWN GUY, THROUGH BOLT TYPE

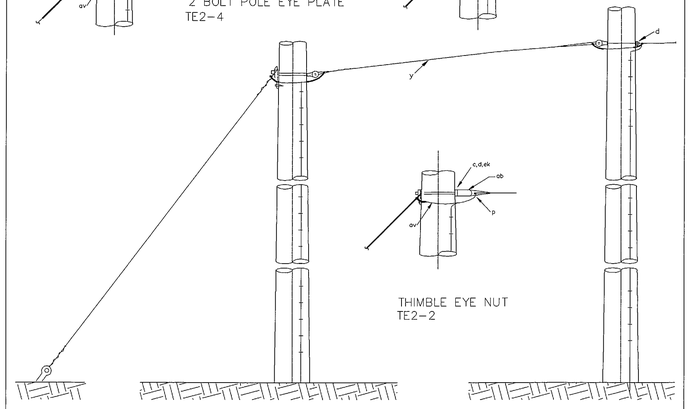
TE1-1, TE1-2, TE1-3, TE1-4



2 BOLT POLE EYE PLATE
TE2-4



2 BOLT GUY HOOK
TE2-3



THIMBLE EYE NUT
TE2-2

TE2-1

		ASSEMBLY UNIT			
		E1-1	E1-2	E1-3	E1-4
	GUY WIRE/ATTACHMENT STRENGTH	5400	10400	16200	22500
ITEM	QTY. MATERIAL	No.Req'd	No.Req'd	No.Req'd	No.req'd
c	Bolt, machine, req'd length	1-5/8"	1-3/4"	4-3/4"	4-3/4"
d	Washer, curved	3" x 3"	4" x 4"	2-3"x3" HD	2-4"x4" HD
p	Connector as req'd				
u	Preformed Deadend for Guy strand	2	2	2	2
ab	Nut, thimble eye	1-5/8"	1-3/4"	–	–
ao	Bolt, thimble type eye	1-5/8"	1-3/4"	–	–
ek	Locknuts, as req'd	–	–	–	–
–	Thimble Clevis	–	–	–	1-3/4" Clevis
–	Guy attatchment	–	–	2 Guy Hooks	2 Guy Plates HD
y	Guy wire, Utility Grade, 7 strand, req'd length	5/16"	3/8"	7/16"	1/2"
av	Jumper #6 solid cu				

TELEPHONE GUY, THROUGH BOLT TYPE

TE2-1, TE2-2, TE2-3, TE2-4

AS-BUILT

BY: KK DATE: 3/17/99

ENGINEER'S SEAL

STATE OF ALASKA ★ 49TH ★ Frank Michael Carson ... REGISTERED PROFESSIONAL ENGINEER

P:\SIT\70606#94\PLANSET\SHT99

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-20-94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

TELEPHONE/CATV OVERHEAD SYSTEM MODIFICATIONS
STRUCTURE LIST AND DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

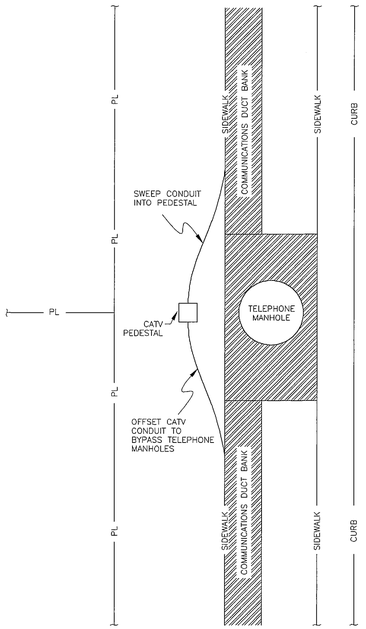
DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 99

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

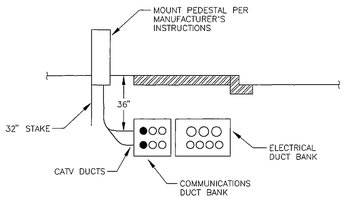
PROJECT DESIGNATION	YEAR
70606	1993

CATV PEDESTAL SCHEDULE

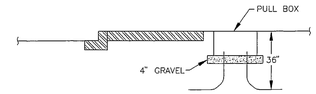
NUMBER	STATION	OFFSET	GENERAL LOCATION	TYPE	MANUFACTURER	CONDUITS	REMARKS
CATV 1	36+33	26.5' R	HALIBUT POINT ROAD	TV 104	RELIABLE	2" PVC (SCHD 40) TO CATV 2 2" PVC (SCHD 40) TO PTI POLE 359301 (NEW ARCHANGL) 2" PVC (SCHD 40) TO 502 HPR (HOME) 2" PVC (SCHD 40) TO 504 HPR (HOME)	
CATV 2	37+12	26.5' R	HALIBUT POINT ROAD	TV 104	RELIABLE	2" PVC (SCHD 40) TO CATV 1 2" PVC (SCHD 40) TO 506 HPR (HOME) 2" PVC (SCHD 40) TO 508 HPR (HOME)	
CATV 3	39+96	27' L	HALIBUT POINT ROAD	TV 1024	RELIABLE	2" PVC (SCHD 40) TO CATV 4 4" PVC (SCHD 40) TO MARINE STREET POLE (PP2) 4" PVC (SCHD 40) TO CATV 10 4" PVC (SCHD 40) TO S. LAKEVIEW STREET POLE 2" PVC (SCHD 40) TO 514 HPR (CHURCH) 2" PVC (SCHD 40) TO 507/509 HPR (DUPLEX)	
CATV 4	41+94	28.5' L	HALIBUT POINT ROAD	TV 106	RELIABLE	2" PVC (SCHD 40) TO CATV 3 4" PVC (SCHD 40) TO CATV 5 2" PVC (SCHD 40) TO CATV 6 2" PVC (SCHD 40) TO BALL FIELD	
CATV 5	42+00	32' R	CORNER CRABAPPLE STREET	TV 104	RELIABLE	4" PVC (SCHD 40) TO CATV 4 2" PVC (SCHD 40) TO 201 CRABAPPLE ST. (HOME) 2" PVC (SCHD 40) TO CRABAPPLE STREET POLE (PP3)	
CATV 6	43+62	37' R	HALIBUT POINT ROAD	TV 106	RELIABLE	2" PVC (SCHD 40) TO CATV 7 2" PVC (SCHD 40) TO CATV 4 2" PVC (SCHD 40) TO 602 HPR (HOME) 2" PVC (SCHD 40) TO 604 HPR (HOME)	
CATV 7	45+87	32.5' L	CORNER N. LAKEVIEW STREET	PULL BOX (17" x 30")	CDR	2" PVC (SCHD 40) TO CATV 6 4" PVC (SCHD 40) TO CATV 8 2" PVC (SCHD 40) TO CATV 9	
CATV 8	D LINE 1+34	27' L	N. LAKEVIEW STREET	TV 104	RELIABLE	2" PVC (SCHD 40) TO N. LAKEVIEW ST. POLE (PP4) 4" PVC (SCHD 40) TO CATV 7 2" PVC (SCHD 40) TO 210 N. LAKEVIEW ST. (HOME) 2" PVC (SCHD 40) TO 239 N. LAKEVIEW ST. (HOME)	
CATV 9	46+88	32' L	HALIBUT POINT ROAD	PULL BOX (17" x 30")	CDR	2" PVC (SCHD 40) TO 612 HPR (HOME) 2" PVC (SCHD 40) TO CATV 7 2" PVC (SCHD 40) TO CATV 10	SURFACE MOUNT PULL BOX INTERCEPT EXISTING CATV CONDUIT
CATV 10	51+19	36' L	HALIBUT POINT ROAD	TV 1024	RELIABLE	4" PVC (SCHD 40) TO CATV 3 4" PVC (SCHD 40) TO CATV 14 2" PVC (SCHD 40) TO KATLIAN POLE (H3081) 4" PVC (SCHD 40) TO CATV 11 2" PVC (SCHD 40) TO CATV 9	
CATV 11			MOLLER DRIVE	TV 106	RELIABLE	2" PVC (SCHD 40) TO MOLLER POLE H2031 4" PVC (SCHD 40) TO CATV 10 2" PVC (SCHD 40) TO 201 MOLLER DR. (HOME) 2" PVC (SCHD 40) TO 203 MOLLER DR. (HOME)	
CATV 12	53+83	30' L	HALIBUT POINT ROAD	TV 104	RELIABLE	2" PVC (SCHD 40) TO CATV 13 2" PVC (SCHD 40) ROAD CROSSING	
CATV 13	55+40	32' L	HALIBUT POINT ROAD	TV 106	RELIABLE	2" PVC (SCHD 40) TO CATV 12 2" PVC (SCHD 40) TO CATV 14 2" PVC (SCHD 40) TO PARK OFFICE (HPR) 2" PVC (SCHD 40) ROAD CROSSING	
CATV 14	56+36	33' L	HALIBUT POINT ROAD	TV 1024	RELIABLE	2" PVC (SCHD 40) TO CATV 13 4" PVC (SCHD 40) TO CATV 10 4" PVC (SCHD 40) TO CATV 16 2" PVC (SCHD 40) TO DEWEYS/APARTMENTS 2" PVC (SCHD 40) TO PACIFIC VIEW CENTER 2" PVC (SCHD 40) TO TRUE VALUE HARDWARE 2" PVC (SCHD 40) TO CATV 15	
CATV 15	57+08	125' R	MOORE CLINIC	PULL BOX (17" x 30")	CDR	2" PVC (SCHD 40) TO CATV 14 2" PVC (SCHD 40) TO MOORE CLINIC	SURFACE MOUNT PULL BOX INTERCEPT EXISTING CATV CONDUIT
CATV 16	59+86	32' R	HALIBUT POINT ROAD	TV 1024	RELIABLE	2" PVC (SCHD 40) TO BRADY STREET POLE (PP5) 2" PVC (SCHD 40) TO LAUNDROMAT 4" PVC (SCHD 40) TO CATV 14 4" PVC (SCHD 40) TO CATV 17 2" PVC (SCHD 40) TO 201 BRADY	
CATV 17	59+60	32' L	HALIBUT POINT ROAD	PULL BOX (17" x 30")	CDR	4" PVC (SCHD 40) TO CATV 16 4" PVC (SCHD 40) TO HPR POLE (PP6) 2" PVC (SCHD 40) TO APARTMENTS/BARBER SHOP/DMV 2" PVC (SCHD 40) TO SEARS (VACANT)	
CATV 18	62+28	32' L	CORNER PEDERSON AVENUE	TV 106	RELIABLE	2" PVC (SCHD 40) TO HPR. POLE (PP6) 4" PVC (SCHD 40) TO PETERSON AVE. POLE (C1141) 2" PVC (SCHD 40) TO McDONALDS	INTERCEPT EXISTING CATV CONDUIT TO Mc. DONALDS



PLAN



PEDESTAL PROFILE



PULL BOX PROFILE

1 TYPICAL CATV PEDESTAL INSTALLATION

CATV NOTES

1. CONTRACTOR SHALL INSTALL CATV CONDUIT SYSTEM AND PEDESTALS/PULL BOXES. ALASKA CABLE NETWORK WILL INSTALL COAXIAL CABLE AND TERMINATIONS UNDER A SEPARATE CONTRACT.
2. CATV CONDUIT SHALL BYPASS TELEPHONE MANHOLES AS CLOSE AS POSSIBLE AND SWEEP INTO CATV PEDESTALS. THREE FOOT SWEEPS SHALL BE USED INTO THE PEDESTALS.
3. NOTIFY ALASKA CABLE NETWORK FOR ASSISTENCE IN INTERCEPTING EXISTING CATV CONDUITS.
4. PEDESTALS SHALL BE INSTALLED CLOSE TO TELEPHONE VAULTS AND IN LOCATIONS WHICH MINIMIZE HAZARDS FROM TRAFFIC, ETC. PEDESTALS SHALL BE SET PLUMB AND SHALL BE PLACED IN GROUND 2". ALL PEDESTALS SHALL BE INSTALLED WITH 32" STEEL STAKES. SEE SHEET 101 FOR SPACING.
5. SURFACE MOUNT PULL BOXES SHALL BE LOCATED OUTSIDE OF HIGH TRAFFIC AREAS. PULL BOXES SHALL BE SET ON 4" D-1 GRAVEL, TOP OF BOX SHALL BE FLUSH WITH GRADE.
6. INSTALL #6 Cu. GROUNDING CONDUCTOR TO ELECTRIC POWER SYSTEM GROUND WHEN PEDISTALS ARE LOCATED WITHIN 6 FEET OF ELECTRIC FACILITIES.

AS-BUILT
BY KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SHT100

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6-22-94	

RECORD OF REVISIONS

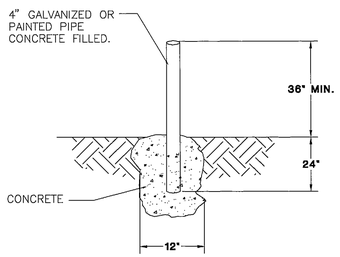
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
CATV PEDESTAL LIST AND INSTALLATION DETAILS

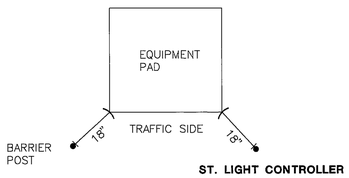
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	100

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER



PERMANENT POST



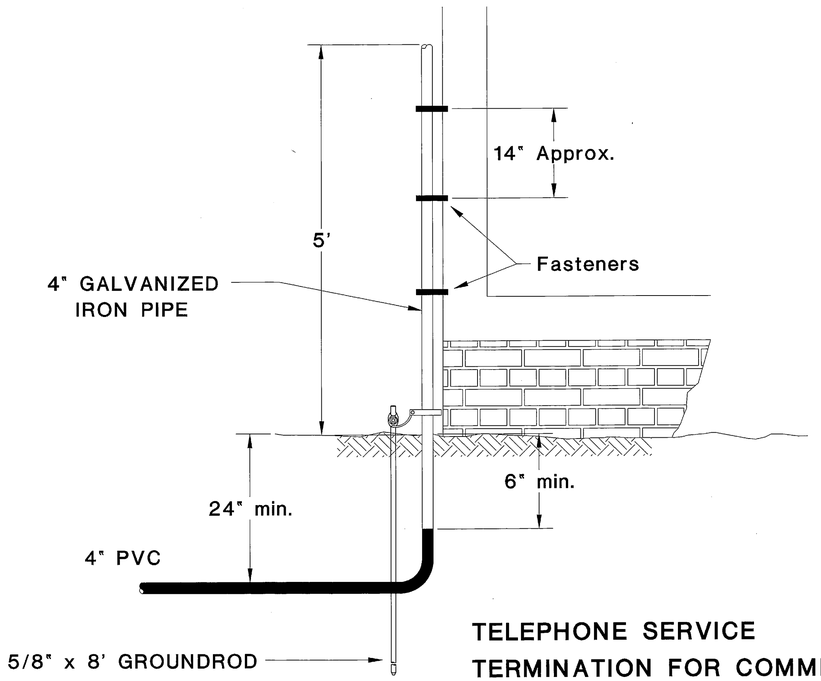
ST. LIGHT CONTROLLER

INSTALL BARRIER POSTS WITH A MAXIMUM 18" RADIUS FROM TRAFFIC SIDE CORNERS.

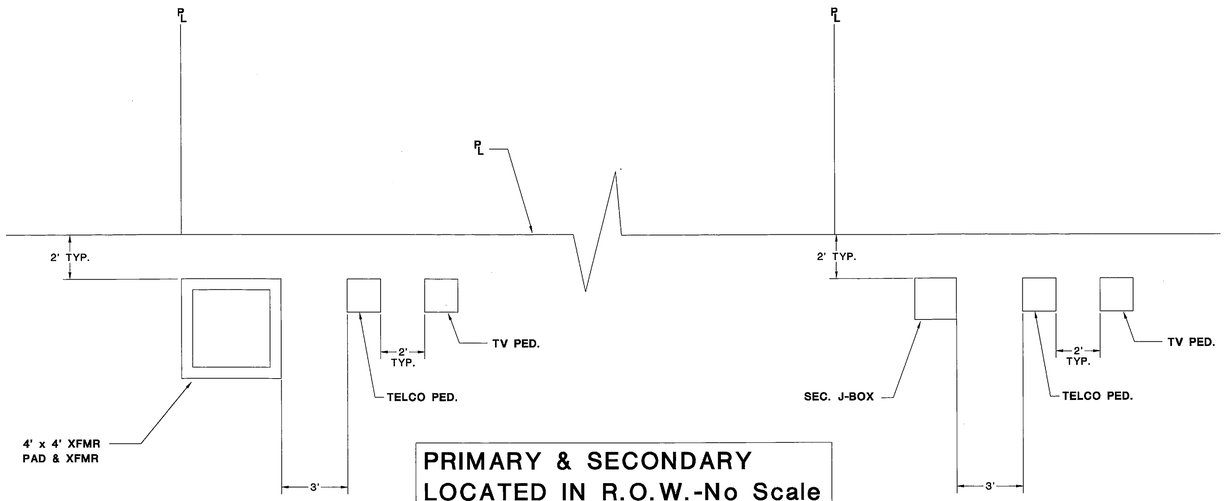
INSTALLATION LOCATIONS:

POSTS	LOCATION
2	ES1 & ES2
2	ST. LIGHT CONTROLLER
2	ES3
2	ES5

PERMANENT POST DETAIL- No Scale



TELEPHONE SERVICE TERMINATION FOR COMMERCIAL BUILDING-No Scale



PRIMARY & SECONDARY LOCATED IN R.O.W.-No Scale

TRANSFORMER OR PRIMARY J-BOX WITH TV & TELCO PEDS

SECONDARY PEDESTALS WITH TELCO & TV PEDS

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SHT101

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT—ERLER TO PETERSON IMPROVEMENTS
NH 099—3(3) 70606
MISCELLANEOUS DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

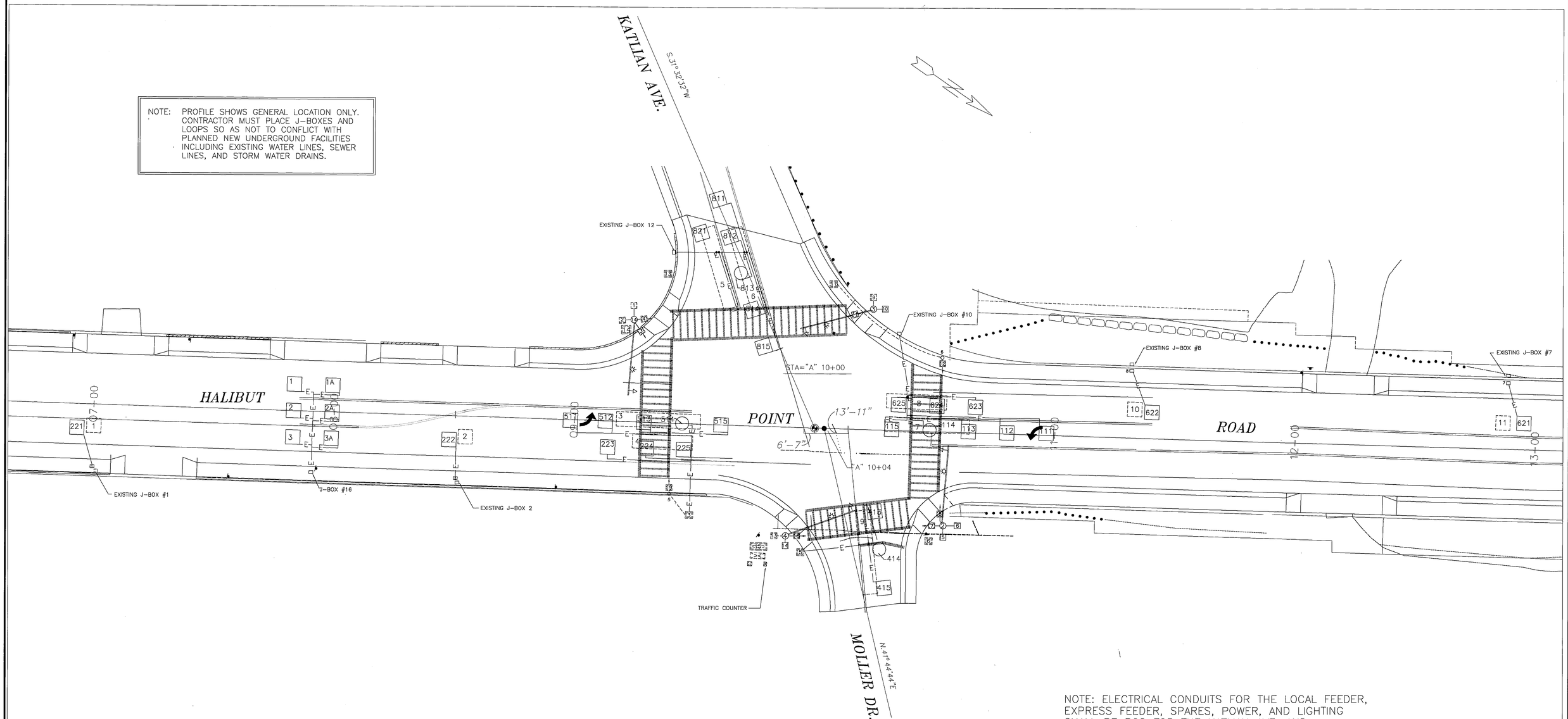
DESIGNED BY:	F.M.C.	PROJECT NO.	0886-203
DRAWN BY:	H.A.H.	DATE:	FEBRUARY, 1994
CHECKED BY:	F.M.C.	SHEET	101

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993

NOTE: PROFILE SHOWS GENERAL LOCATION ONLY. CONTRACTOR MUST PLACE J–BOXES AND LOOPS SO AS NOT TO CONFLICT WITH PLANNED NEW UNDERGROUND FACILITIES INCLUDING EXISTING WATER LINES, SEWER LINES, AND STORM WATER DRAINS.



NOTE: ELECTRICAL CONDUITS FOR THE LOCAL FEEDER, EXPRESS FEEDER, SPARES, POWER, AND LIGHTING SHALL BE RGS FOR THE KATLIAN AVE. AND THE HPR TO MOLLER PARK ROAD CROSSINGS.
SEE STANDARD DRAWING A1 FOR TRAFFIC SIGNAL SYMBOLS

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\#SHT102
E:\SHT\KLIAN.DWG 3/18/94

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
Frank Michael Carson, EE–5604
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/20/94	
	9/09/94	TRAFFIC LOOP REPOSITION

RECORD OF REVISIONS

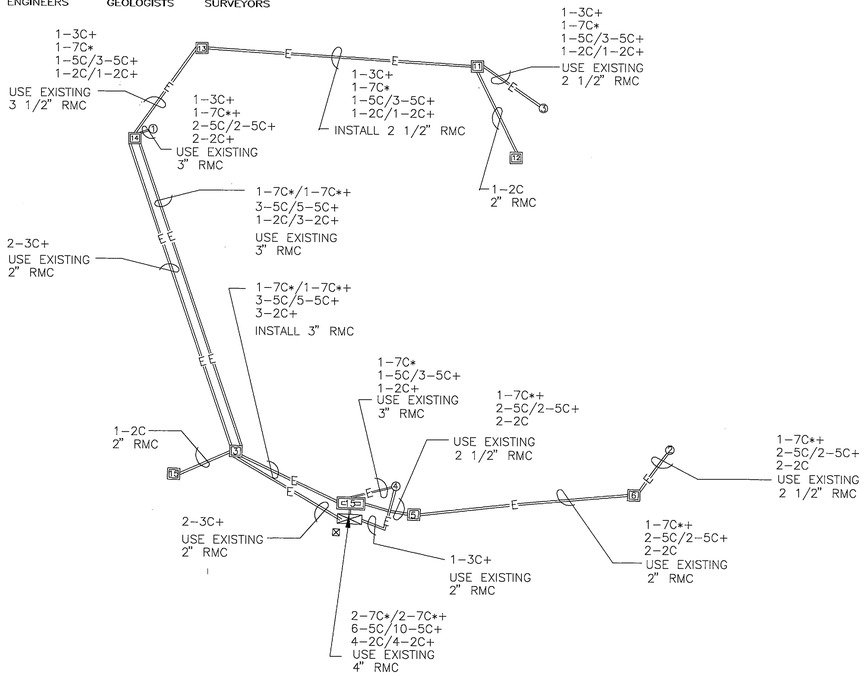
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HALIBUT POINT ROAD & KATLIAN
NH 099–3(3) 70606
TRAFFIC SIGNAL PLAN
KATLIAN & MOLLER INTERSECTION

DESIGNED BY: R.J.C.– NETS	PROJECT NO. 0886–203
DRAWN BY: S.T.	DATE: FEBRUARY, 1994
CHECKED BY: R.J.C.	SHEET 102

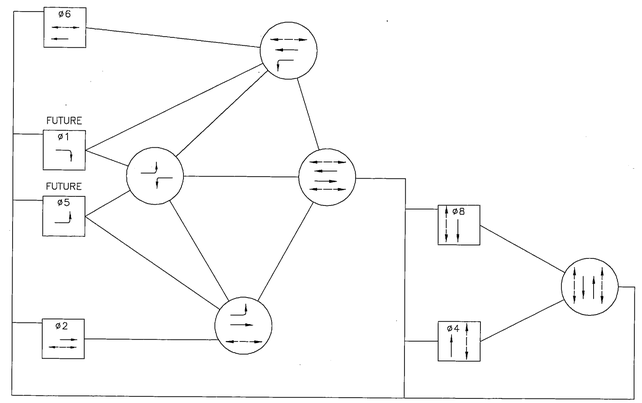
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

PROJECT DESIGNATION	YEAR
70606	1993



WIRING DIAGRAM

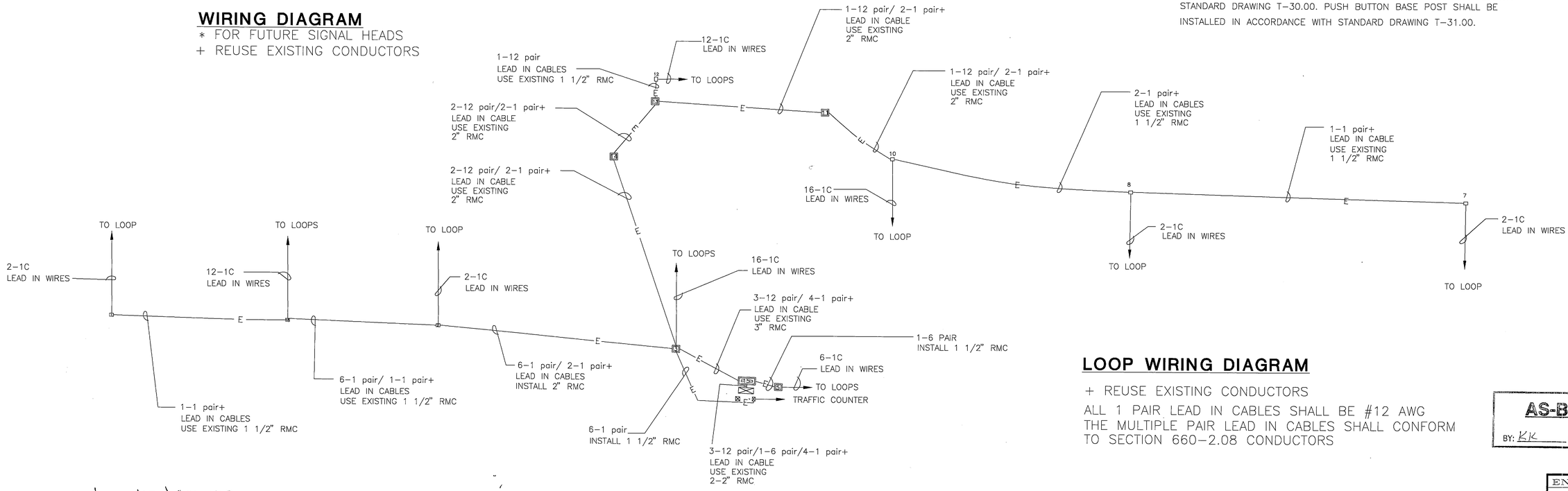
* FOR FUTURE SIGNAL HEADS
\+ REUSE EXISTING CONDUCTORS



PHASE DIAGRAM

GENERAL NOTES

1. SIGNAL HARDWARE SHALL BE MOUNTED AS PER STANDARD DRAWINGS T – 30.00
2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES PIPES, AND CULVERTS.
3. CONDUIT LOCATIONS AS SHOWN ON THE SIGNALIZATION PLAN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED AS NECESSARY TO SUIT FIELD CONDITIONS.
4. J–BOX LOCATIONS SHALL BE ADJUSTED AS NECESSARY TO SUIT FIELD CONDITIONS, AND EXISTING CONDUITS SHALL BE RE–ESTABLISHED TO THE NEW LOCATION. J–BOXES SHALL BE INSTALLED PER STANDARD DRAWINGS T–34.00.
5. "C" – CONDUCTOR, "RMC" – RIGID METAL CONDUIT, "RGS" RIGID GALVANIZED STEEL CONDUIT.
6. DC–EC=DELAY CALL–EXTEND CALL.
7. ALL NEW DETECTOR LOOPS EXCEPT BIKE LOOPS, SHALL BE 6'x6' AND SHALL BE ENCASED IN PVC CONDUIT. SEE THE DETECTOR INSTALLATION DETAIL SHEET.
8. LOOPS 1–3 AND 1A–3A SHALL BE ROUTED TO THE NEW TRAFFIC COUNTER LOCATION.
9. SEE SHEETS 83 & 84 FOR TRAFFIC COUNTER'S SERVICE ENTRANCE DETAILS.
10. THE CONTRACTOR SHALL RE–ESTABLISH THE TRAFFIC COUNTER'S TELEPHONE.
11. TWO PEDESTRIAN LOAD SWITCHES SHALL BE INSTALLED IN THE TRAFFIC SIGNAL CABINET. ONE FOR ø4 AND ONE FOR ø2.
12. BIKE LOOPS SHALL BE 4' DIA. AS SHOWN IN THE DETAIL ON SHEET 105.
13. PEDESTRIAN PUSH BUTTON SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING T–30.00. PUSH BUTTON BASE POST SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING T–31.00.



LOOP WIRING DIAGRAM

\+ REUSE EXISTING CONDUCTORS
ALL 1 PAIR LEAD IN CABLES SHALL BE #12 AWG
THE MULTIPLE PAIR LEAD IN CABLES SHALL CONFORM TO SECTION 660–2.08 CONDUCTORS

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#99\PLANSET\#SHT103
E:\SHT\KLIAN.DWG 3/18/94

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HALIBUT POINT ROAD & KATLIAN
NH 099–3(3) 70606
TRAFFIC SIGNAL PLAN
KATLIAN & MOLLER INTERSECTION

DESIGNED BY: R.J.C.– NETS	PROJECT NO. 0886–203
DRAWN BY: S.T.	DATE: FEBRUARY, 1994
CHECKED BY: R.J.C.	SHEET 103

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
Frank Michael Carson
EE–5604

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

SIGNAL HEAD SCHEDULE (EXISTING)

NO	PHASE	POLE NO	INDICATED	LEN SIZE	MOUNTING TYPE	REMARKS
1	6	1	R-Y-G	12"	S-1	
2	6	1	R-Y-G	12"	PLUMBIZER	
3	8	4	R-Y-G	12"	S-1	
4	8	4	R-Y-G	12"	PLUMBIZER	
5	2	2	R-Y-G	12"	S-1	
6	2	2	R-Y-G	12"	PLUMBIZER	
7	4	3	R-Y-G	12"	S-1	
8	4	3	R-Y-G	12"	PLUMBIZER	

SIGNAL POLE SCHEDULE (EXISTING)

NO	STATION	OFFSET	TYPE	ILLUMINATION	REMARKS
1	09 + 24	42' L	COMBINATION	EXISTING	
2	10 + 55	38' R	STANDARD	NONE	
3	10 + 23	50' L	COMBINATION	EXISTING	
4	09 + 90	45' R	COMBINATION	EXISTING	
5	09 + 39	29' L	2 1/2" PED. POLE	–	NEW 2 1/2"
6	10 + 51	33' R	2 1/2" PED. POLE	–	NEW 2 1/2"

LOAD CENTER SCHEDULE

MAIN CIRCUIT BREAKER RATING	2 POLE	100 AMPS	REMOVE
MAIN CIRCUIT BREAKER RATING	2 POLE	125 AMPS	INSTALL
LIGHTING CIRCUIT BREAKER RATING	2 POLE	20 AMPS	EXISTING
TRAFFIC SIGNAL CIRCUIT BREAKER RATING	1 POLE	50 AMPS	EXISTING
TRAFFIC COUNTER CIRCUIT BREAKER RATING	1 POLE	20 AMPS	INSTALL

J-BOX SCHEDULE

NO	STATION	OFFSET	TYPE	REMARKS
1	07 + 02	29' R	1	REMOVE EXISTING
1	07 + 00	26' R	1	IN SIDEWALK
2	08 + 52	29' R	1	REMOVE EXISTING
2	08 + 52	26' R	1	IN SIDEWALK
3	09 + 49	38' R	2	
4				NOT USED
5	09 + 96	52' R	2	
6	10 + 49	46' R	2	
7	12 + 88	30' L	1	REMOVE EXISTING
7	12 + 88	28' L	1	IN SIDEWALK
8	11 + 31	29' L	1	REMOVE EXISTING
8	11 +31	28' L	1	IN SIDEWALK
9				NOT USED
10	10 + 34	39' L	1	
11	10 + 06	60' L	2	IN SIDEWALK
12	09 + 40	71' L	1	
13	09 + 37	62' L	2	
14	09 + 21	39' L	2	
15	09 + 80	50' L	3	
	09 + 80	52' L		CONTROLLER
16	07 + 91	26' R	1	IN SIDEWALK
	09 + 83	55' R		TRAFFIC COUNTER

CONDUIT SCHEDULE

QUANTITY	SIZE	FROM	TO	REMARKS
1	1.5" RMC	J-BOX 5	J-BOX 15	LOOP CIRCUIT
1	1.5" RMC	J-BOX 3	TRAFFIC COUNTER	LOOP CIRCUIT
1	2"	J-BOX 2	J-BOX 3	LOOP CIRCUIT
1	2.5"	J-BOX 13	J-BOX 11	POWER CIRCUIT
1	3"	J-BOX 3	J-BOX 15	POWER CIRCUIT
1	2"	J-BOX 3	PED. POLE 5	PUSH BUTTON
1	2"	J-BOX 11	PED. POLE 6	PUSH BUTTON

DETECTOR SCHEDULE

EX. NO.	NEW NO.	STATION	OFFSET	TYPE	PHASE	REMARKS
1		07 + 00	9' R	6'x6' LOOP	2	REMOVE
	221	06 + 93	10' R	6'x6' LOOP	2	4 TURNS
2		08 + 52	9' R	6'x6' LOOP	2	REMOVE
	222	08 + 48	10' R	6'x6' LOOP	2	4 TURNS
3		09 + 35	1' L	6'x35' LOOP	2	REMOVE
	511	09 + 00	0.5' R	6'x6' LOOP	2	4 TURNS
	512	09 + 16	0.5' R	6'x6' LOOP	2	4 TURNS
	513	09 + 32	0.5' R	6'x6' LOOP	2	4 TURNS
	514	09 + 40	0.5' R	BIKE LOOP 6' (DIA.)	2	4 TURNS
	515	09 + 64	0.5' R	6'x6' LOOP	2	4 TURNS
4		09 + 37	9' R	6'x25' LOOP	2	REMOVE
	223	09 + 42	11' R	6'x6' LOOP	2	4 TURNS
	224	09 + 58	11' R	BIKE LOOP 6' (DIA.)	2	4 TURNS
	225	09 + 74	11' R	6'x6' LOOP	2	4 TURNS
5		09 + 58	64' L	6'x35' LOOP	8	REMOVE
	821	09 + 62	48' L	6'x6' LOOP	8	4 TURNS
6		09 + 69	64' L	6'x35' LOOP	8	REMOVE
	811	09 + 55	97' L	6'x6' LOOP	8	4 TURNS
	812	09 + 62	81' L	6'x6' LOOP	8	4 TURNS
	813	09 + 69	65' L	BIKE LOOP 6' (DIA.)	8	4 TURNS
	814	09 + 73	49' L	6'x6' LOOP	8	4 TURNS
	815	09 + 79	33' L	6'x6' LOOP	8	4 TURNS
7		10 + 47	2' L	6'x35' LOOP	6	REMOVE
	115	10 + 32	0.5' L	6'x6' LOOP	6	4 TURNS
	114	10 + 48	0.5' L	BIKE LOOP 6' (DIA.)	6	4 TURNS
	113	10 + 64	0.5' L	6'x6' LOOP	6	4 TURNS
	112	10 + 80	0.5' L	6'x6' LOOP	6	4 TURNS
	111	10 + 96	0.5' L	6'x6' LOOP	6	4 TURNS
8		10 + 42	12' L	6'x25' LOOP	6	REMOVE
	625	10 + 28	11' L	6'x6' LOOP	6	4 TURNS
	624	10 + 44	11' L	BIKE LOOP 6' (DIA.)	6	4 TURNS
	623	10 + 60	11' L	6'x6' LOOP	6	4 TURNS
9		10 + 22	51' R	6'x35' LOOP	4	REMOVE
	413	10 + 26	34' R	6'x6' LOOP	4	4 TURNS
	412	10 + 28	50' R	BIKE LOOP 6' (DIA.)	4	4 TURNS
	411	10 + 30	66' R	6'x6' LOOP	4	4 TURNS
10		11 + 33	12' L	6'x6' LOOP	6	REMOVE
	622	11 + 40	11' L	6'x6' LOOP	6	4 TURNS
11		12 + 88	6' L	6'x6' LOOP	6	REMOVE
	621	12 + 95	11' L	6'x6' LOOP	6	4 TURNS
	1	07 + 99	11' L	6'x6' LOOP		4 TURNS
	1A	07 + 83	11' L	6'x6' LOOP		4 TURNS
	2	07 + 99	0'	6'x6' LOOP		4 TURNS
	2A	07 + 83	0'	6'x6' LOOP		4 TURNS
	3	07 + 99	11' R	6'x6' LOOP		4 TURNS
	3A	07 + 83	11' R	6'x6' LOOP		4 TURNS

PEDESTRIAN SIGNAL & PUSH BUTTON SCHEDULE

NO	PHASE	POLE NO	TYPE	MOUNTING	SIGN TYPE	REMARKS
1	6	1	PED. SYMBL.	SW-2	SOLID STATE NEON	EXISTING
2	4	1	PED. SYMBL.	SW-2	SOLID STATE NEON	EXISTING
3	8	1	PED. PUSH BUTTON		LEFT ARROW*	REMOVE EXISTING BUTTON
3	8	1	PED. PUSH BUTTON		LEFT ARROW*	INSTALL MUSHROOM TYPE BUTTON
4	2	1	PED. PUSH BUTTON		RIGHT ARROW*	REMOVE EXISTING BUTTON
4	2	1	PED. PUSH BUTTON		RIGHT ARROW*	INSTALL MUSHROOM TYPE BUTTON
5	2	2	PED. SYMBL.	SW-2	SOLID STATE NEON	
6	8	2	PED. SYMBL.	SW-2	SOLID STATE NEON	
7	6	2	PED. PUSH BUTTON		RIGHT ARROW*	INSTALL MUSHROOM TYPE BUTTON
8	4	2	PED. PUSH BUTTON		LEFT ARROW*	INSTALL MUSHROOM TYPE BUTTON
9	2	3	PED. SYMBL.	SW-1		REMOVE EXISTING SW-1
9	2	3	PED. SYMBL.	SW-2	SOLID STATE NEON	
10	4	3	PED. SYMBL.	SW-2	SOLID STATE NEON	
11	6	3	PED. PUSH BUTTON		LEFT ARROW*	REMOVE EXISTING BUTTON
11	6	3	PED. PUSH BUTTON		LEFT ARROW*	INSTALL MUSHROOM TYPE BUTTON
12	8	6	PED. PUSH BUTTON		RIGHT ARROW*	INSTALL MUSHROOM TYPE BUTTON
13	8	4	PED. SYMBL.	SW-1		REMOVE EXISTING SW-1
13	8	4	PED. SYMBL.	SW-2	SOLID STATE NEON	
14	6	4	PED. SYMBL.	SW-2	SOLID STATE NEON	
15	4	4	PED. PUSH BUTTON		RIGHT ARROW*	REMOVE EXISTING BUTTON
15	4	5	PED. PUSH BUTTON		RIGHT ARROW*	INSTALL MUSHROOM TYPE BUTTON
16	2	4	PED. PUSH BUTTON		LEFT ARROW*	INSTALL MUSHROOM TYPE BUTTON

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\R94\PLANSET\#SHT104
E:\SHT\KLIAN.DWG 3/18/94

*NOTE: MUST CONFORM TO ALASKA STANDARD SIGN DESIGN MANUAL R10-4B (R) OR (L).

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
REGISTERED PROFESSIONAL ENGINEER
EE-5604

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/20/94	

RECORD OF REVISIONS

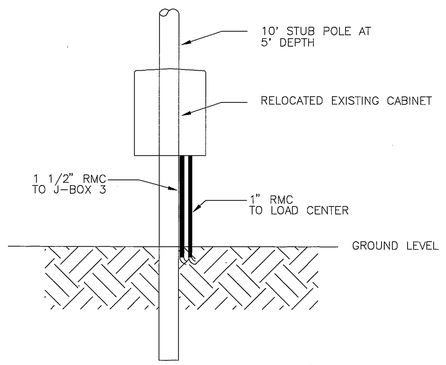
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HALIBUT POINT ROAD & KATLIAN
NH 099-3(3) 70606
TRAFFIC SIGNAL PLAN
SCHEDULES
KATLIAN & MOLLER INTERSECTION

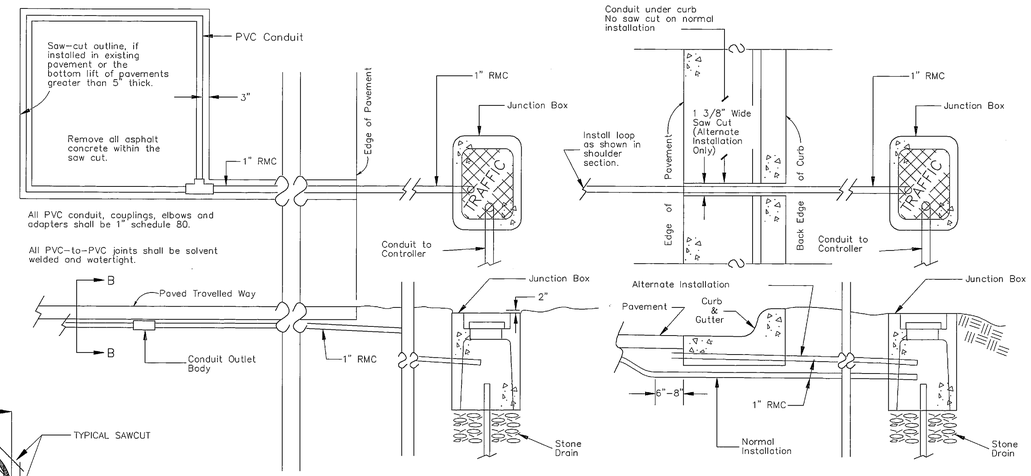
DESIGNED BY: R.J.C.- NETS
DRAWN BY: S.T.
CHECKED BY: R.J.C.

PROJECT NO. 0886-203
DATE: FEBRUARY, 1994
SHEET 104

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS



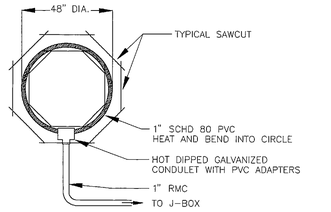
TRAFFIC COUNTER MOUNTING DETAIL



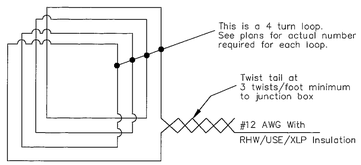
SHOULDER SECTION

CURB SECTION

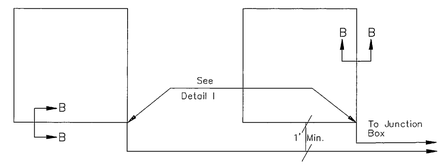
PVC CONDUIT ENCASED DETECTOR LOOP INSTALLATION



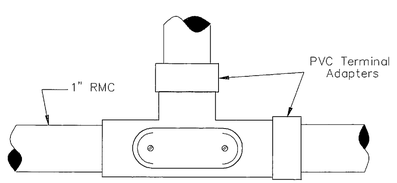
BICYCLE LOOP DETAIL



LOOP WIRING DETAIL

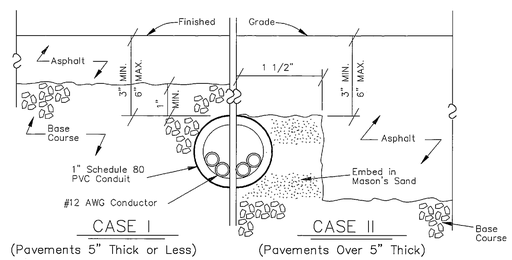


TYPICAL PLAN VIEW
OF
MULTIPLE LOOP INSTALLATION



HOT DIPPED GALVANIZED METAL "T" CONDUIT OUTLET BODY WITH ACCESS SIDE UP

DETAIL I



CASE I (Pavements 5" Thick or Less)

CASE II (Pavements Over 5" Thick)

SECTION B-B

GENERAL NOTES

1. The power supply and sensor control unit shall be housed in the controller cabinet.
2. When new asphalt pavement is being installed, complete loop installations prior to paving.
3. All slots and trenches in cemented surfaces shall be cut by a power concrete saw. The saw shall be capable of dadoing a rectangular groove up to 3/4" wide and 3 1/2" deep.
4. All sawcut surfaces shall be washed clean and dried using compressed air. Sawing of newly poured, Portland Cement concrete shall not occur for seven (7) days after pouring.
5. PVC conduit encased detector loops shall be the primary method of installing detection. This method shall be used in new construction or when the existing asphalt depth is less than 4", or when the existing asphalt is cracked or alligatored.
6. Flexible tube encased detector loops should be installed when called for in the plans and when the existing asphalt is:
   A. At least 4" in depth.
   B. It's temperature is at least 40 degreesF and rising.
   C. It is not cracked.
7. The flexible tubing to encase the loop wire shall have a 1/4" inside diameter and may be flexible vinyl, noeprene, PVC plastic, or polyethylene.
8. Slots shall be filled to within 1/8" of the top of asphalt with an approved loop sealant. Foam rope slot filers shall not be used. Short foam rope pieces should be wedged 2' to 3' on centers to keep the loop wire from floating.
9. Prior to final acceptance of the project, each loop shall be checked for continuity and conductor insulation integrity in accordance with Section 660-2.14 of the Specifications.
10. Splicing of the loop tail wires to the lead-in cable shall conform to Section 660-2.09(A) of the Specifications.
11. Label all loop tails and lead-in cable in accordance with Section 660-2.08 and Table 660(4) of the Specifications.
12. All pavement removal, replacement asphalt material, and paving required to complete the installation of traffic detectors shall be considered part of the loop installation item, and not measured or paid for directly. Replacement paving shall be a minimum depth of 3 inches.
13. Asphalt mix used to repave the loop cut out shall be maintained at a temperature above 225 degrees F in an insulated box until the time of application. The adjacent pavement shall be heated with a torch before paving but no direct flame shall be applied to the new asphalt. Tack coat shall be applied to the edges of the existing asphalt before paving the trenches. Compaction shall be done with a small self-propelled roller. The asphalt mix used to repave the slots shall be in accordance with Section 401 of the Specificatoins, and be approved by the Engineer.
14. Loop locations may be staggered slightly (± 6") to accommodate home run replacement.
15. All detector loops shall be 6 feet wide by 6 feet long, unless dimensioned otherwise in the plans.
16. Mason's sand shall conform to AASHTO M45.
17. Loops shall have 4 turns unless otherwise specified on the plans.
18. Installation of the junction boxes shall conform to the requirements of the Junction Boxes Detail Sheet and standard drawings.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

TRAFFIC SIGNAL
DETECTOR INSTALLATION
DETAIL SHEET

AS-BUILT
BY: KK DATE: 3/17/99

P:\SRT\70606A94\PLANSET\BESHT105
E:\SHT\KLIAN.DWG 3/18/94

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HALIBUT POINT ROAD & KATLIAN
NH 099-3(3) 70606
TRAFFIC SIGNAL PLAN
SCHEDULES AND DETAILS
KATLIAN & MOLLER INTERSECTION

DESIGNED BY: R.J.C.- NETS	PROJECT NO. 0886-203
DRAWN BY: S.T.	DATE: FEBRUARY, 1994
CHECKED BY: R.J.C.	SHEET 105

SWEEP SUMMARY FOR ELECTRICAL CONDUITS

TOTAL HORIZONTAL ANGLE	CABLE PULL		ANGLE A		ANGLE B		ANGLE C		ANGLE D		ANGLE E		ANGLE F		ANGLE G		ANGLE H		ANGLE I		ANGLE J	
	START	FINISH	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS	STATION	BEND/RADIUS
225°	ET 1	EMH1	36+42	90'-36"R	36+50	45'-48"R	37+80	45'-48"R	38+17	45'-48"R	39+10	11 1/4'-300"R	39+22	11 1/4'-300"R								
180°	ES 1/2	EMH1	–	90'-36"R	38+32	75'-150"R (GAL. STEEL)	39+10	11 1/4'-300'R	39+22	11 1/4'-300"R												
105°	EMH2	EMH1	42+15	30'-150"R	42+09	30'-150"R	41+94	11 1/4'-300"R	41+84	11 1/4'-300"R	39+43	11 1/4'-300"R	39+38	11 1/4'-300"R								
248°	ET2	EMH1	–	90'-36"R	–	45'-48"R	39+48	90'-48"R	39+43	11 1/4'-300"R	39+38	11 1/4'-300"R										
274°	N1041	EMH1	–	90'-36"R	–	30'-48"R	–	11 1/4'-40"R	–	30'-48"R	39+48	90'-48"R (GAL. STEEL)	39+43	11 1/4'-300"R	39+38	11 1/4'-300"R						
293°	PP3	EMH2	–	90'-36"R	–	30'-48"R	41+86	90'-48"R (GAL. STEEL)	41+90	11 1/4'-48"R	41+94	11 1/4'-300"R	42+09	30'-150"R	42+15	30'-150"R						
105°	EMH3	EMH2	46+05	30'-150"R	45+99	30'-150"R	45+84	11 1/4'-300"R	45+74	11 1/4'-300"R	42+36	11 1/4'-300"R	42+31	11 1/4'-300"R								
203°	ET3	EMH2	–	90'-36"R	43+07	45'-48"R	42+36	11 1/4'-300"R	42+31	11 1/4'-300"R												
240°	PP4	EMH3	–	90'-36"R	45+84	90'-48"R (GAL. STEEL)	45+99	30'-150"R	46+05	30'-150"R												
45°	EMH3	EMH4	46+21	11 1/4'-300"R	46+26	11 1/4'-300"R	50+93	11 1/4'-300"R	50+98	11 1/4'-300"R												
203°	ET4	EMH3		90'-36"R	46+80	90'-48"R	46+26	11 1/4'-300"R	46+21	11 1/4'-300"R												
240°	ES3	EMH4	–	90'-36"R	51+33	90'-48"R (GAL. STEEL)	51+22	30'-150"R	51+14	30'-150"R												
285°	ET5	EMH4	–	90'-36"R	–	45'-48"R	51+38	90'-48"R	51+22	30'-150"R	51+14	30'-150"R										
225°	ET5	ET6	–	90'-36"R	–	45'-48"R	–	15'-48"R	–	90'-36"R (GAL. STEEL)												
83°	EMH4	EMH5	51+14	30'-150"R	51+22	30'-150"R	56+22	11 1/4'-300"R	56+27	11 1/4'-300"R												
180°	ET7	EP9	–	90'-36"R																		
180°	ET8	EP9	–	90'-36"R																		
90°	EP9	EMH5	56+55	90'-48"R																		
158°	EP10	EP9	58+43	90'-48"R (GAL. STEEL)	58+22	11 1/4'-300"R	58+07	11 1/4'-300"R	57+21	11 1/4'-300"R	57+11	11 1/4'-300"R	56+97	11 1/4'-300"R	56+62	11 1/4'-48"R						
113°	EMH6	EMH5	59+71	11 1/4'-300"R	59+40	11 1/4'-300"R	58+80	11 1/4'-300"R	58+50	11 1/4'-300"R	58+22	11 1/4'-300"R	58+07	11 1/4'-300"R	57+21	11 1/4'-300"R	57+11	11 1/4'-300"R	56+97	11 1/4'-300"R	56+82	11 1/4'-300"R
225°	ES4	EMH6	–	90'-36"R	59+04	90'-48"R (GAL. STEEL)	59+40	11 1/4'-300"R	59+73	11 1/4'-48"R (TURNED UP 90')	59+77	22 1/2'-48"R (TURNED DOWN 45')										
180°	ES4	EP11	–	90'-36"R	–	90'-48"R (GAL. STEEL)																
30°	EP11	EMH6	–	–																		
90°	ET9	EP11	–	90'-36"R																		
90°	ET10	EP11	–	90'-36"R																		
45°	EMH6	EMH7	59+91	11 1/4'-300"R	60+09	11 1/4'-300"R	61+84	11 1/4'-300"R	62+02	11 1/4'-300"R												
203°	ET(MCD)	EMH7	–	90'-36"R	61+88	90'-48"R	61+90	11 1/4'-48"R	62+02	11 1/4'-300"R												
90°	ES5	EMH7	–	90'-36"R																		
203°	ES6	EMH7	64+39	90'-36"R	63+80	45'-150"R (GAL. STEEL)	62+55	11 1/4'-300"R	62+45	11 1/4'-300"R	62+31	22 1/2'-150"R	62+18	22 1/2'-150"R								

NOTES: 1) SUMMARY DOES NOT INCLUDE FIELD BENDS TO ADJUST FOR STREET ALIGNMENT OR AVOIDING STORM WATER DRAINS, WATER AND SEWER SERVICES.

2) RIGID GALVANIZED STEEL ELECTRICAL CONDUIT SWEEPS ARE NOTED; ALL OTHER SWEEPS ARE SCHEDULE 80 PVC.

3) WHEN APPLICABLE, SIMILAR SCHEDULE 40 PVC SWEEPS SHOULD BE USED FOR TELCO AND CATV CONDUITS. HOWEVER, GALVANIZED STEEL SWEEPS SHALL NOT BE USED FOR TELEPHONE AND CATV CONDUITS.

4) RIGID GALVANIZED STEEL CONDUIT SHALL BE USED IN THE VICINITY OF THE TRAFFIC CONTROL LOOPS AT THE KATLIAN STREET INTERSECTION.

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606\94\PLANSET\SHT106

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	6/20/94	
	7/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

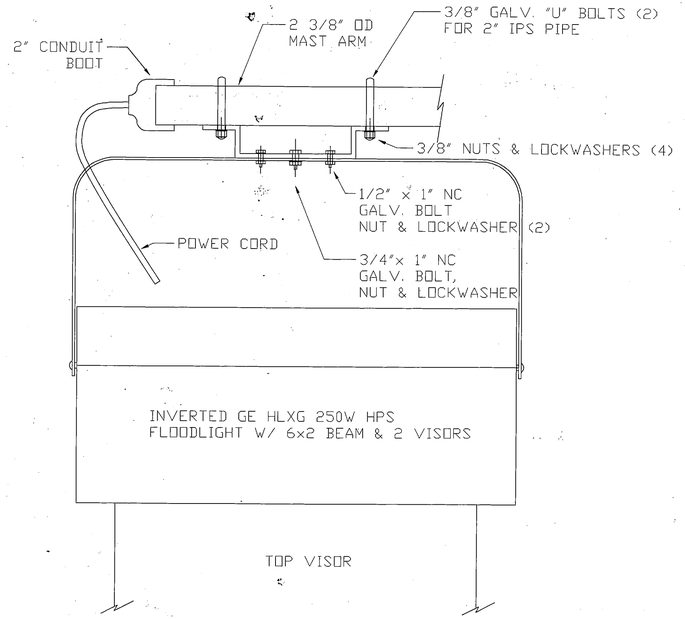
SITERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606
ELECTRICAL DUCT BANK
SWEEP SUMMARY

NETS
NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: H.A.H.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 106

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER

PROJECT DESIGNATION	YEAR
70606	1993

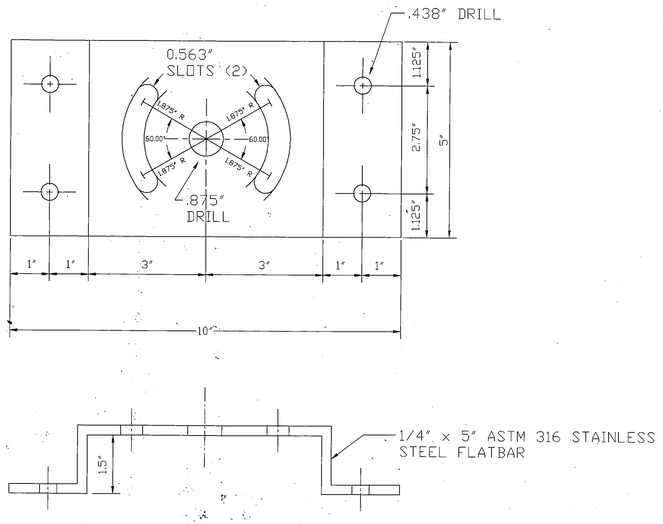


NOTES:

CROSSWALK LIGHT POLE SHALL BE MANUFACTURED WITH A 35' NOMINAL MOUNTING HEIGHT AND A 18' NOMINAL MAST ARM LENGTH. LUMINAIRE SHALL BE CENTERED DIRECTLY OVER CROSSWALK AND FIXTURE AXIS SHALL BE ADJUSTED TO BE PARALLEL WITH CROSSWALK. POLES SHALL HAVE FOUR BOLT MULTI-DIRECTIONAL ANCHOR BOLTS WITH BREAKAWAY POLE BASES AS SHOWN IN THE STREET LIGHT FOUNDATION DETAILS ON SHEET 86.

LUMINAIRES SHALL BE GENERAL ELECTRIC TYPE HLXG WITH TRUNNION MOUNT, OR APPROVED EQUAL. LAMPS SHALL BE 250W HIGH PRESSURE SODIUM FOR 240V SYSTEM. NEMA BEAM SPREAD SHALL BE 6 HORIZONTAL AND 2 VERTICAL. UNITS SHALL HAVE GREY FINISH AND SHALL BE EQUIPPED WITH MAG-REG BALLAST. NO PHOTO CELL IS REQUIRED SINCE CROSSWALK LIGHTS WILL BE ENERGIZED FROM STREET LIGHT CONTROLLER AS SHOWN ON SHEET 86. TWO TVAL-HLX TOP VISORS SHALL BE INSTALLED ON EACH LUMINAIRE TO CONTROL GLARE PARALLEL TO THE ROADWAY. ONE VISOR SHALL BE MOUNTED IN THE TOP POSITION AND ONE VISOR SHALL BE MOUNTED IN THE BOTTOM POSITION PARALLEL TO THE LAMP. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS; SOME FABRICATION WORK MAY BE REQUIRED. LUMINAIRES SHALL BE INVERTED AND SUSPENDED FROM MAST ARMS AS SHOWN IN THE DETAIL. THE SPECIAL FLOODLIGHT ATTACHMENT BRACKET SHOWN IN THE DETAIL WILL HAVE TO BE FABRICATED FOR EACH LUMINAIRE IN ORDER TO BE ABLE TO ADJUST LIGHT AXIS.

THE FOUR CROSSWALK LIGHTS ARE LOCATED AT NORTH AND SOUTH LAKEVIEW STREETS AS SHOWN ON SHEETS 54 AND 55.



FLOODLIGHT ATTATCHMENT BRACKET
4 REQUIRED

AS-BUILT
BY: KK DATE: 3/17/99

P:\SIT\70606#94\PLANSET\SHT 106A

BY:	DATE:	DESCRIPTION OF CHANGE:
KK	3/17/99	AS-BUILT
	7/19/94	
	7/20/94	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SIT-ERLER TO PETERSON IMPROVEMENTS
NH 099-3(3) 70606

CROSSWALK LIGHTING DETAILS

NEUBAUER ENGINEERING & TECHNICAL SERVICES
P.O. BOX 32584, JUNEAU, AK. 99803 (907) 789-2474

DESIGNED BY: F.M.C.	PROJECT NO. 0886-203
DRAWN BY: S.T.	DATE: FEBRUARY, 1994
CHECKED BY: F.M.C.	SHEET 106A

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Frank Michael Carson
EE-5604
REGISTERED PROFESSIONAL ENGINEER