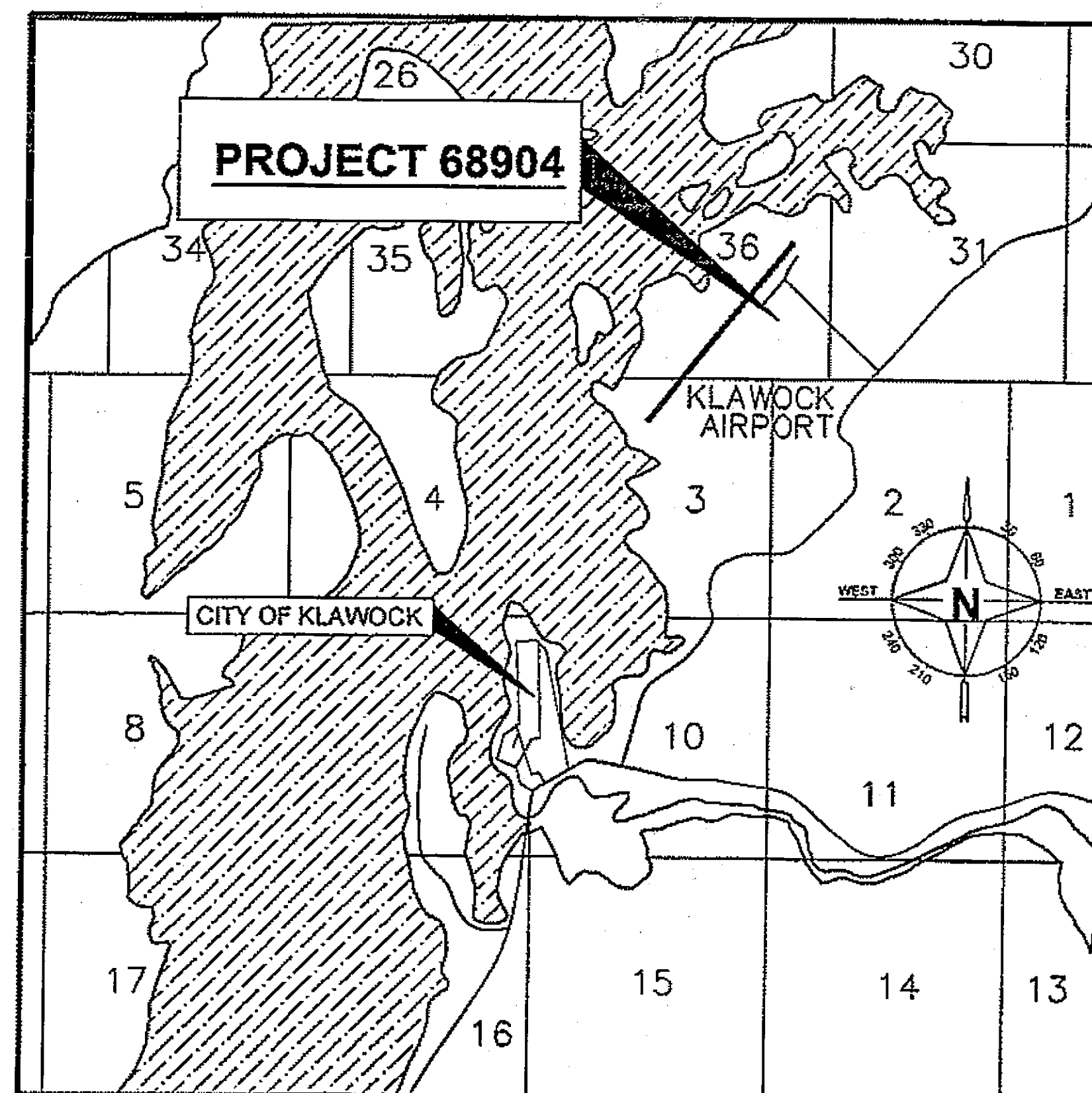


Design and Engineering Services Division-Southeast Region

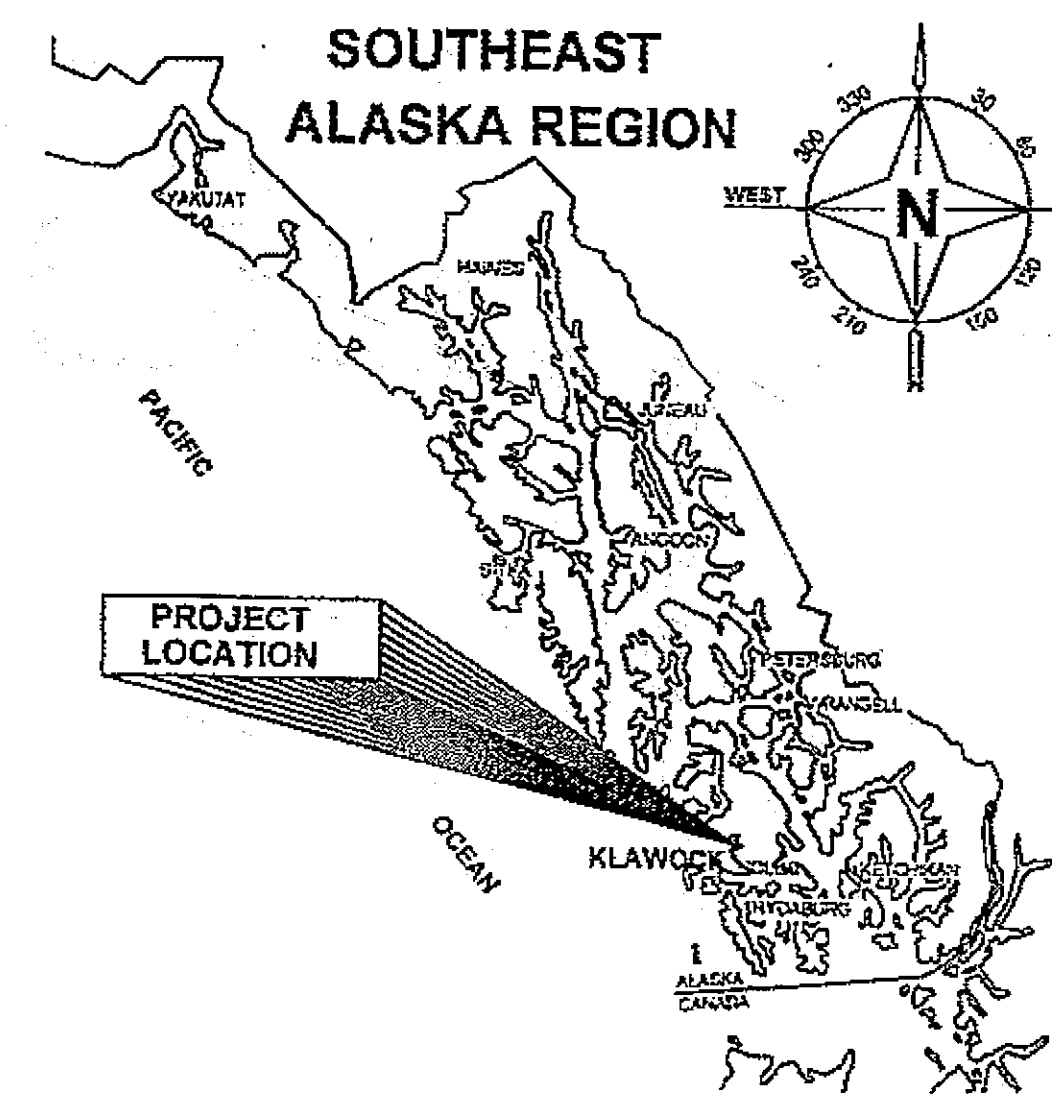
KLAWOCK, ALASKA KLAWOCK AIRPORT WATER IMPROVEMENTS

ADOT&PF PROJECT No. 68904

Q: K LW \ 68904 \ Asbuit



VICINITY MAP
N.T.S.



AS-BUILT PLANS

CONTRACTOR S&S General Contractors
and Equip. Rental, Inc

PROJECT ENGINEER Kraig Nonheim

BEGIN DATE Sept. 6, 2007

END DATE NOVEMBER 16, 2007

TOTAL CONTRACT Amount \$ 262,942.00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Kraig J. Welch Date 2-13-08

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1 / U-03-00 / E-13-00

INDEX

[illegible]

PATH: Q:\2006\06100-KLAWOCKICAD\PLANSETS\568904_A1.2_GENERAL.DWG
Wednesday, May 16, 2007 - 4:13pm

TAB: A1-TITLE SHEET

PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION



PLANS DEVELOPED BY:
KETA ENGINEERING

APPROVED: Jack D. Beedle DATE 5/30/07
REGIONAL PRE-CONSTRUCTION ENGINEER
JACK D. BEEDLE, P.E.

APPROVED: ONAS Newzler DATE 5/30/07
DIRECTOR, SOUTHEAST REGION
MALCOLM A. MENZIES, P.E., L.S.

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD
CONDITION:

DATE _____

CONSTRUCTION PROJECT MANAGER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68904	2007	A1	9

PROJECT CONTROL

HORIZONTAL
HORIZONTAL CONTROL FOR THIS PROJECT IS DEFINED BY THE LISTED CONTROL POINTS. THE COORDINATES OF THESE POINTS ARE BASED ON A LOCAL COORDINATE SYSTEM.

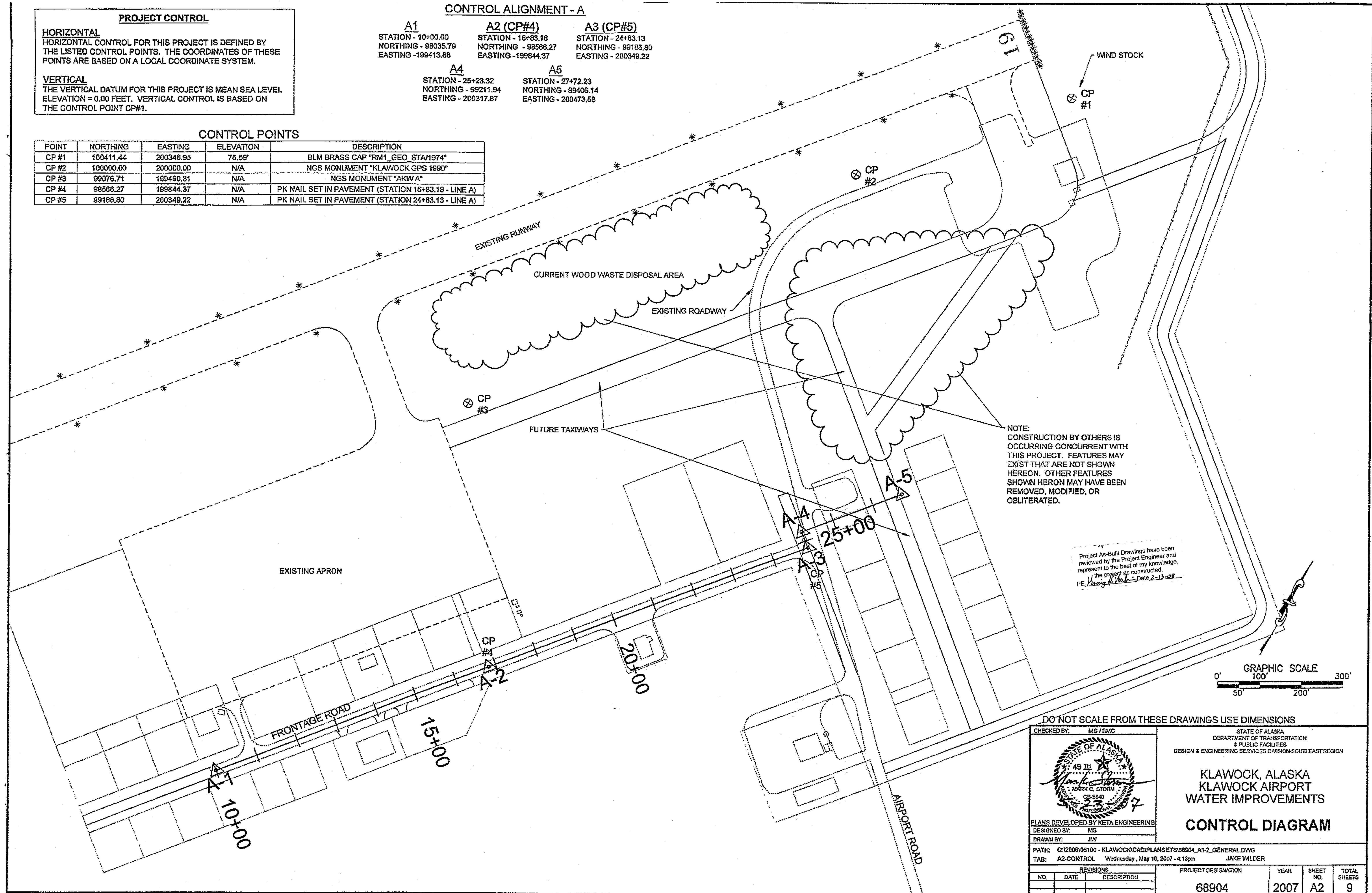
VERTICAL
THE VERTICAL DATUM FOR THIS PROJECT IS MEAN SEA LEVEL. ELEVATION = 0.00 FEET. VERTICAL CONTROL IS BASED ON THE CONTROL POINT CP#1.

CONTROL ALIGNMENT - A

A1	A2 (CP#4)	A3 (CP#5)
STATION - 10+00.00	STATION - 16+83.18	STATION - 24+83.13
NORTHING - 98035.79	NORTHING - 98566.27	NORTHING - 99186.80
EASTING - 199413.88	EASTING - 199844.37	EASTING - 200349.22
A4	A5	
STATION - 25+23.32	STATION - 27+72.23	
NORTHING - 99211.94	NORTHING - 99406.14	
EASTING - 200317.87	EASTING - 200473.58	

CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #1	100411.44	200348.95	76.59'	BLM BRASS CAP "RM1_GEO_STA1974"
CP #2	100000.00	200000.00	N/A	NGS MONUMENT "KLAUOCK GPS 1990"
CP #3	99076.71	199490.31	N/A	NGS MONUMENT "AKWA"
CP #4	98566.27	199844.37	N/A	PK NAIL SET IN PAVEMENT (STATION 16+83.18 - LINE A)
CP #5	99186.80	200349.22	N/A	PK NAIL SET IN PAVEMENT (STATION 24+83.13 - LINE A)

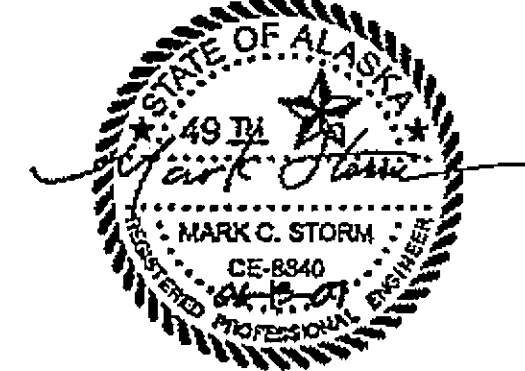


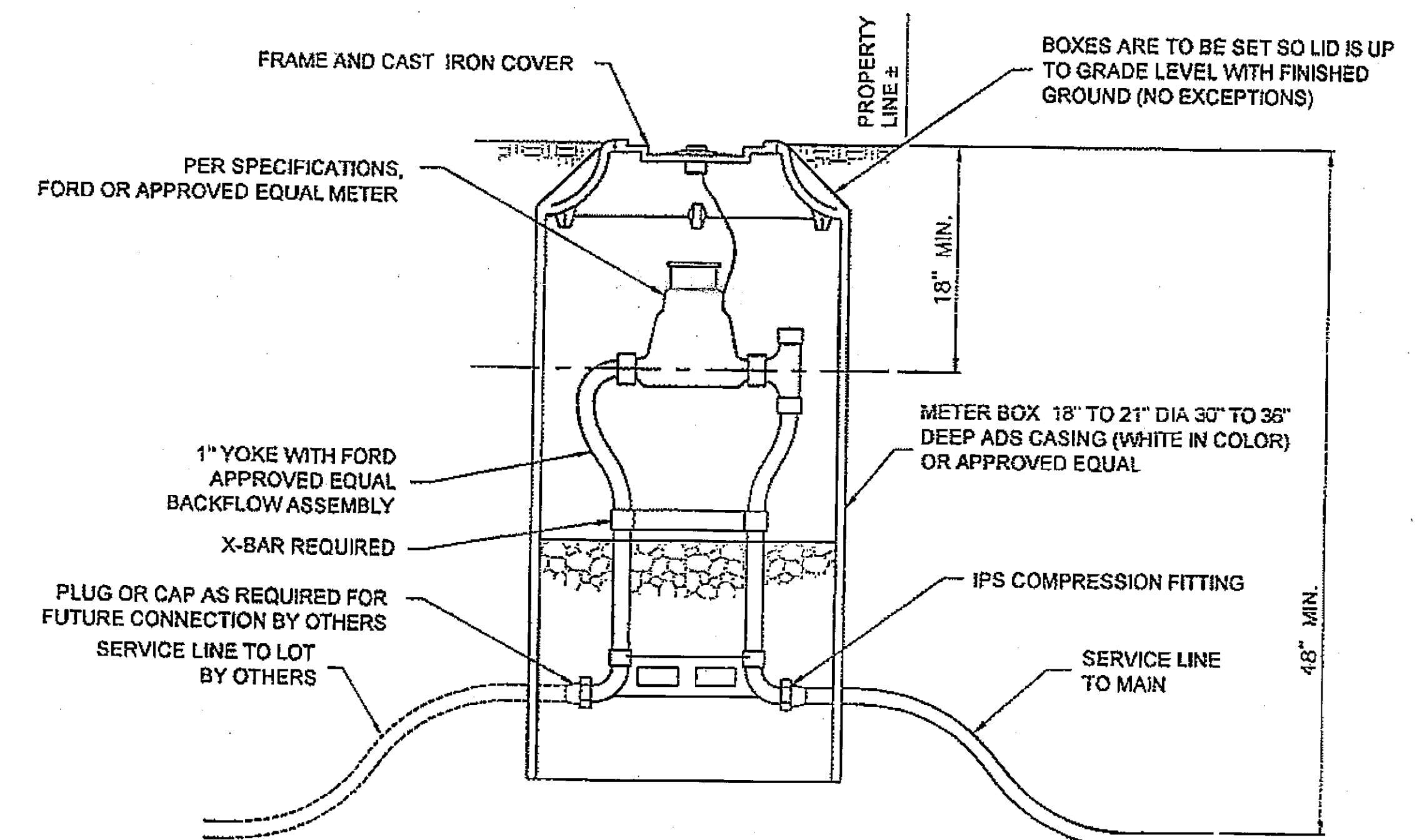
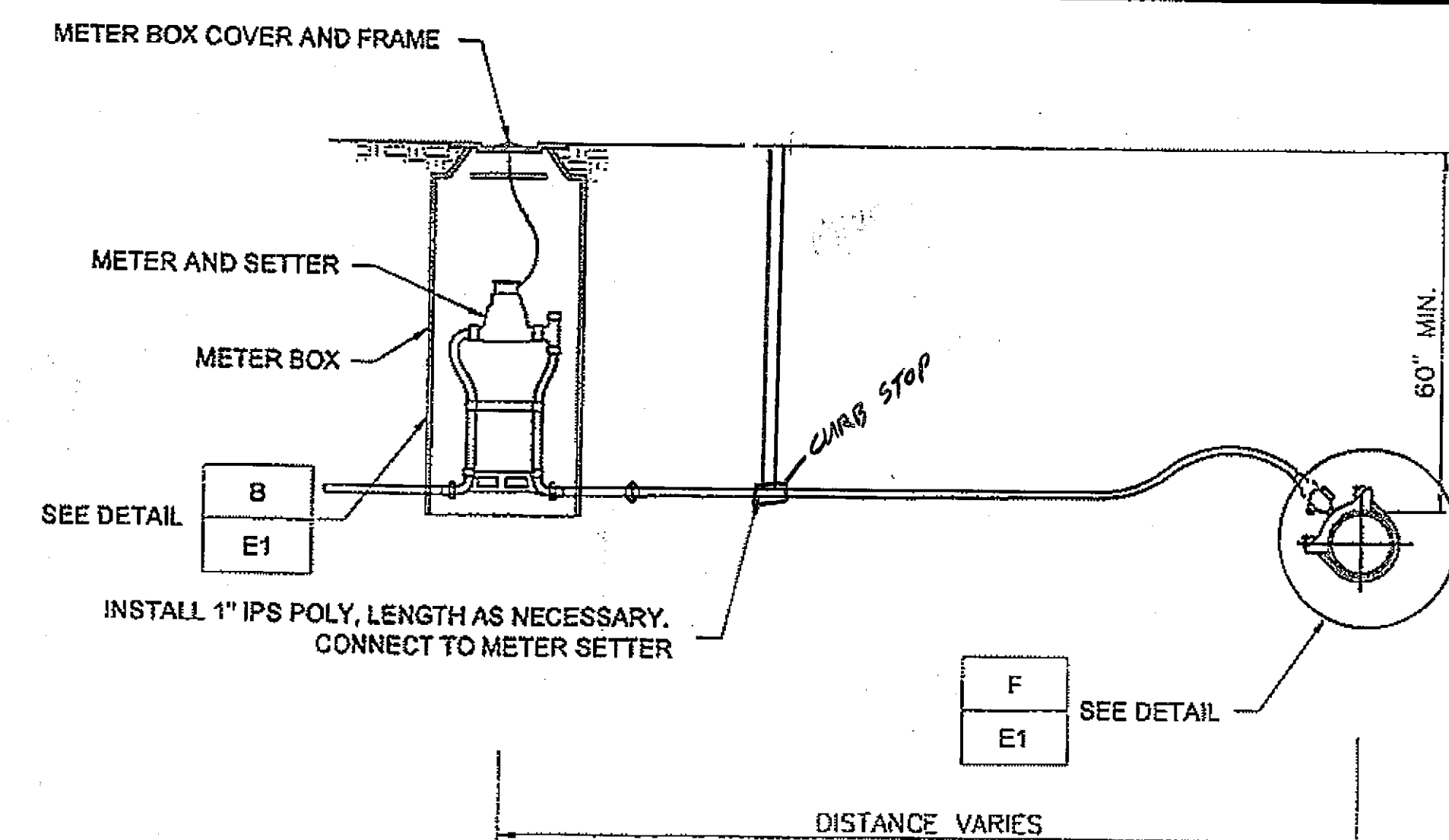
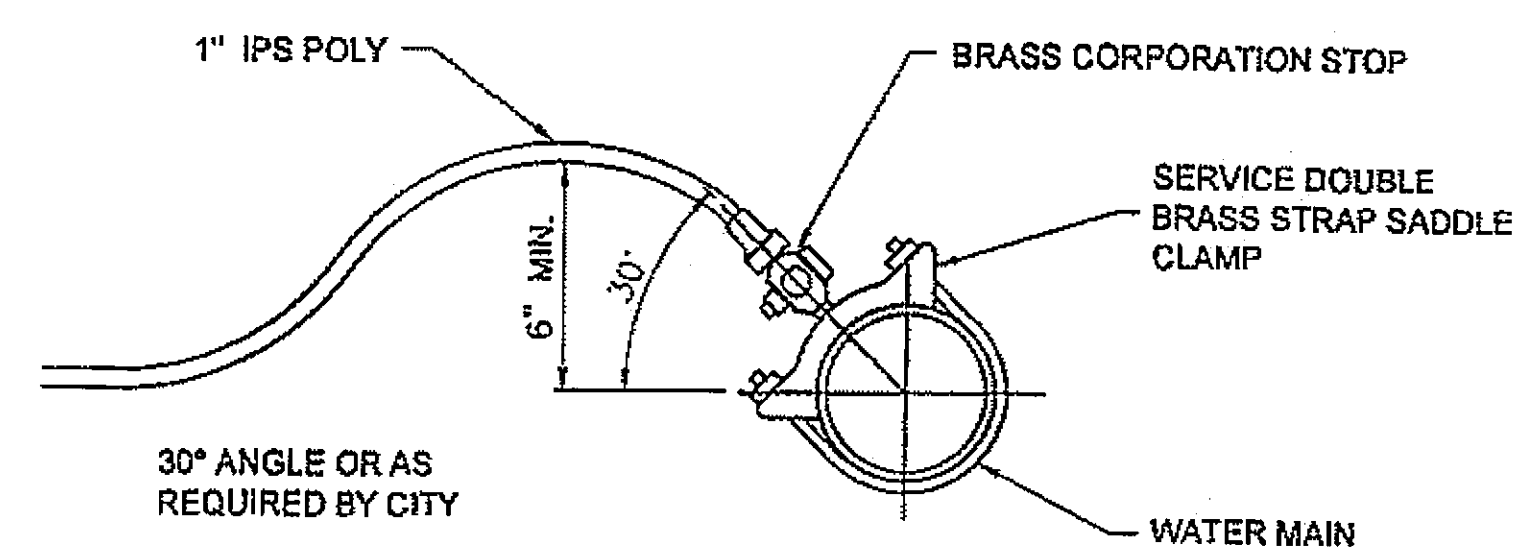
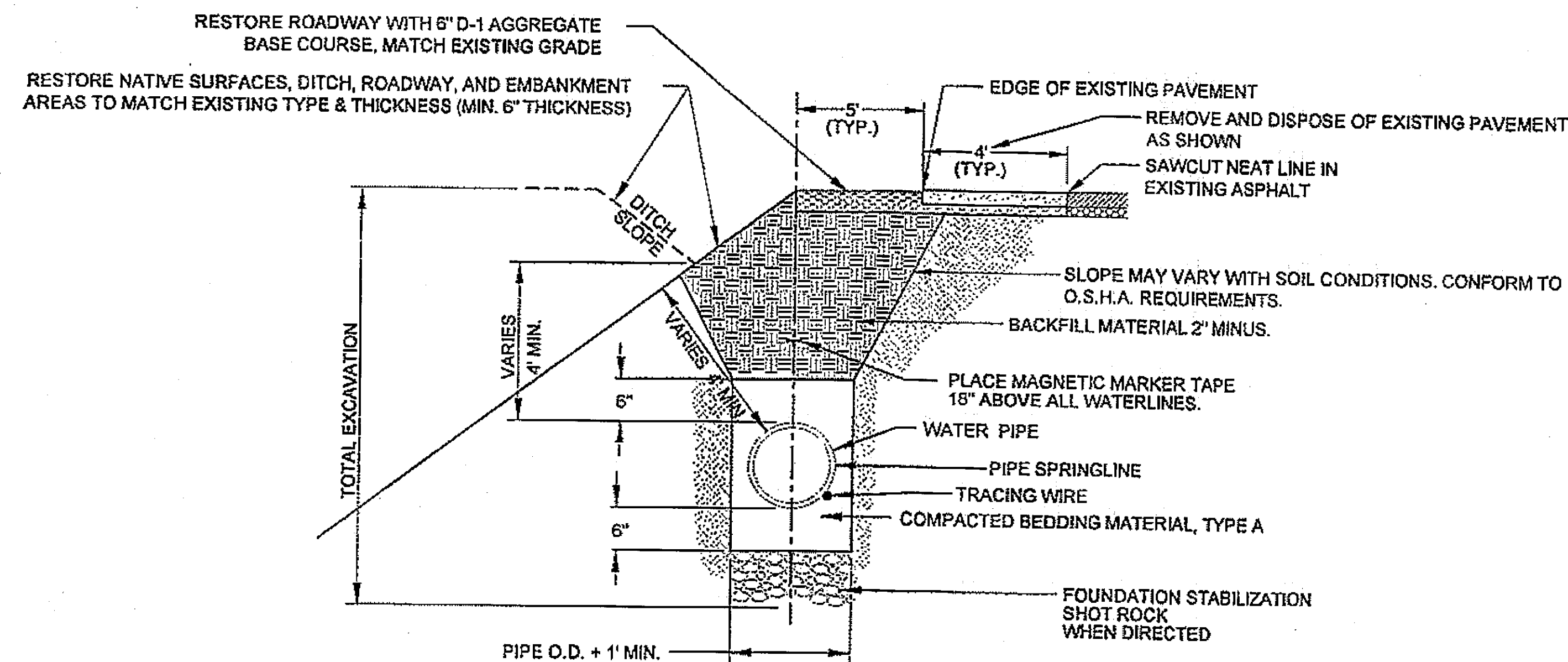
CHECKED BY: MS/BMC PLANS DEVELOPED BY KETA ENGINEERING DESIGNED BY: MS DRAWN BY: JWV		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAUOCK, ALASKA KLAUOCK AIRPORT WATER IMPROVEMENTS CONTROL DIAGRAM													
PATH: Q:\2006\06100 - KLAUOCK\CAD\PLANS\SET\088904_A1-2_GENERAL.DWG TAB: A2-CONTROL Wednesday, May 16, 2007 - 4:12pm JAKE WILDER		PROJECT DESIGNATION 68904													
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION				<table border="1"> <thead> <tr> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>2007</td> <td>A2</td> <td>9</td> </tr> </tbody> </table>		YEAR	SHEET NO.	TOTAL SHEETS	2007	A2	9
NO.	DATE	DESCRIPTION													
YEAR	SHEET NO.	TOTAL SHEETS													
2007	A2	9													

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
203(19)	UTILITY TRENCH ROCK EXCAVATION	LINEAR FOOT	1518 641
301(2)	AGGREGATE BASE COURSE, TYPE D-1	CUBIC YARD	241 242
603 (17)	24" PIPE	LINEAR FOOT	96 120
628 (1)	10" WATER SYSTEM VALVE	EACH	3
628 (2)	8" WATER SYSTEM VALVE	EACH	1
629 (1)	HYDRANT ASSEMBLY	EACH	5
638 (1)	WATER SERVICE	EACH	12
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
641 (1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	1
641 (3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	1
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	1
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	1
662 (1)	10" SDR 11 HDPE WATER MAIN	LINEAR FOOT	1836 1872
662 (2)	8" SDR 11 HDPE WATER MAIN	LINEAR FOOT	115 60
662 (3)	CONNECT TO EXISTING WATER LINE	EACH	1
644 (1)	Field Office	Lump Sum	1
644 (6)	Vehicle	Lump Sum	1

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 2-12-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

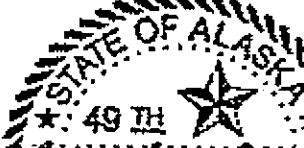
CHECKED BY: MS / BMC  DESIGNED BY: MS DRAWN BY: JW		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK, ALASKA KLAWOCK AIRPORT WATER IMPROVEMENTS PROJECT SUMMARY																		
PATH: G:\2006\6100 - KLAWOCK\CAD\PLANS\68904_D1-1_SUMMARY.DWG TAB: D1-SUMMARY Thursday, Jun 14, 2007 - 10:31am JAKE WILDER																				
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION										PROJECT DESIGNATION 68904	YEAR 2007	SHEET NO. D1	TOTAL SHEETS 9
REVISIONS																				
NO.	DATE	DESCRIPTION																		



- NOTES:**
1. **INSPECTION - PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY CITY OF KLAOWCK**
 2. **BACKFILL - INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.**
 3. **TAPPING - PLACE TAPS A MINIMUM OF 24" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS SHALL BE INSTALLED WITHIN 24" OF THE END OF ANY PIPE.**
 4. **TAPE - TEFLON TAPE IS REQUIRED ON ALL TAPS**

- NOTES:**
- 1. PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.**
 - 2. INSTALL ALL BACKFILL MATERIAL PER SPECIFICATIONS IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM DENSITY OF 95 PERCENT IN ROADWAYS AND 90 PERCENT IN ALL OTHER AREAS PER ASTM D1557.**
 - 3. PLACEMENT:**
 - A. DO NOT INSTALL METERS UNDER DRIVEWAY APPROACHES..**
 - B. ALL METERS ARE TO BE INSTALLED WITHIN 4 FEET OF THE PROPERTY LINE (ROADWAY SIDE).**
 - 4. METER ISSUES:**
 - A. PROTECT METER ASSEMBLY DURING CONSTRUCTION.**
 - B. COORDINATE METER ASSEMBLY REMOVAL AND REPLACEMENT IN NEW YOKES WITH KLAUOCK CITY WATER DEPARTMENT STAFF.**

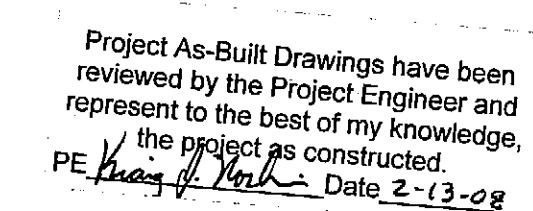
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: <u>MS / BMC</u> 	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK, ALASKA KLAWOCK AIRPORT WATER IMPROVEMENTS MISCELLANEOUS DETAILS
PLANS DEVELOPED BY KETA ENGINEERING DESIGNED BY: <u>MS</u> DRAWN BY: <u>JW</u>	PATH: Q:\2006\06100 - KLAWOCK\CAD\PLANS\SET\68904_E1-5_DETAILS.DWG TAB: E1 - DETAIL Wednesday, May 16, 2007 - 4:13pm JAKE WILDER

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68904	2007	E1	9

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. HYDRANT: DRY BARREL PER AWWA C502.
 - A. PROVIDE AT LEAST 1 CUBIC YARD OF WASHED-ROCK DISPERSAL MEDIA AROUND DRAIN HOLE AT BASE OF HYDRANT. PLACE TAR PAPER OR PLASTIC OVER SEWER ROCK TO PREVENT SILTING.
 - B. APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 mil THICK POLYETHYLENE SHEET AND TAPE WRAP.
 - C. NOTIFY FIRE DEPARTMENT AS SOON AS HYDRANT IS PLACED IN SERVICE.
4. THRUST BLOCKS: REQUIRED FOR ALL CONNECTIONS INCLUDING FLANGED OR WELDED PIPE SYSTEMS.
5. PLASTIC WRAP: PRIOR TO POURING CONCRETE, APPLY POLY-FM GREASE AND WRAP PIPE SYSTEM AND FITTINGS WITH 8 mil THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM AND FITTINGS.



8"

10" x 8" REDUCER

10" TEE

8" VALVE

10" VALVE

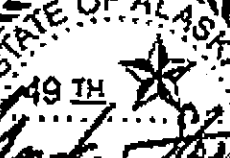
10" VALVE

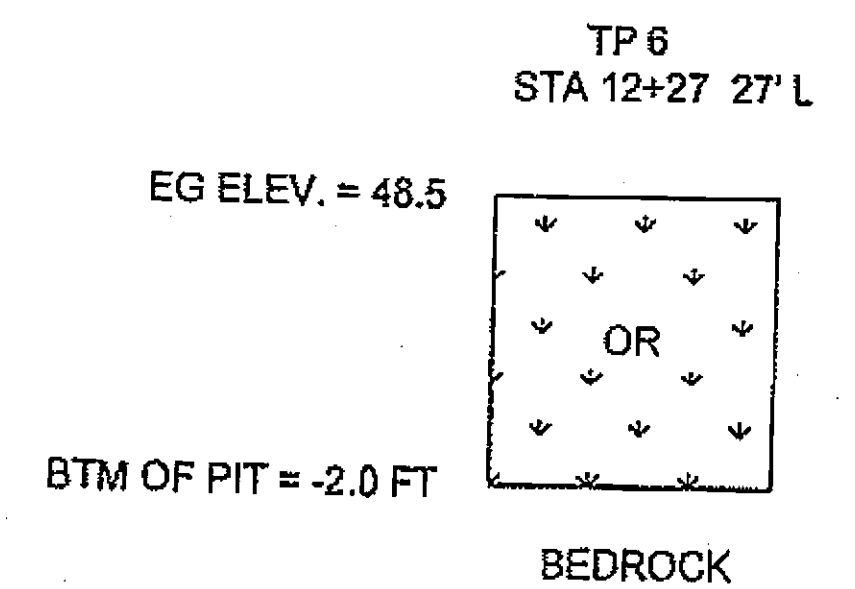
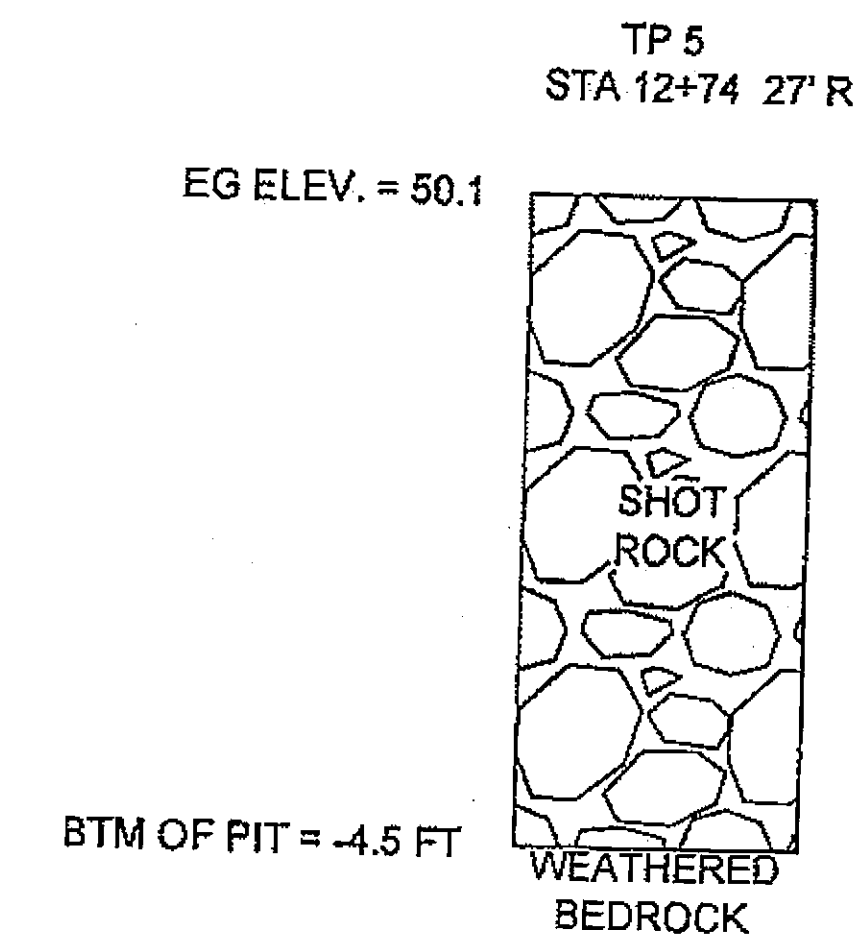
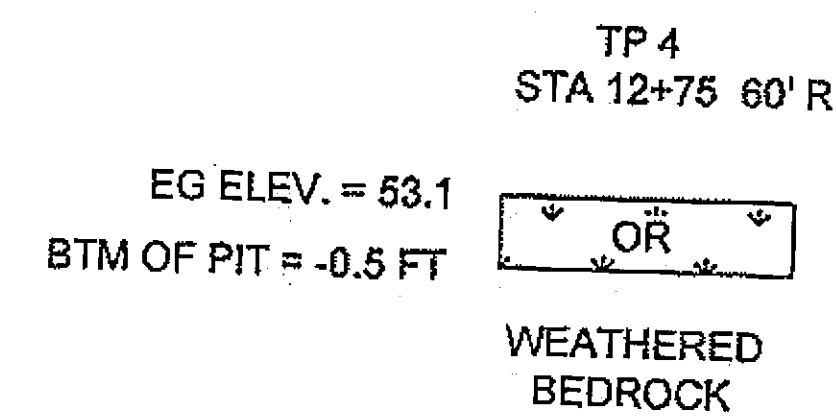
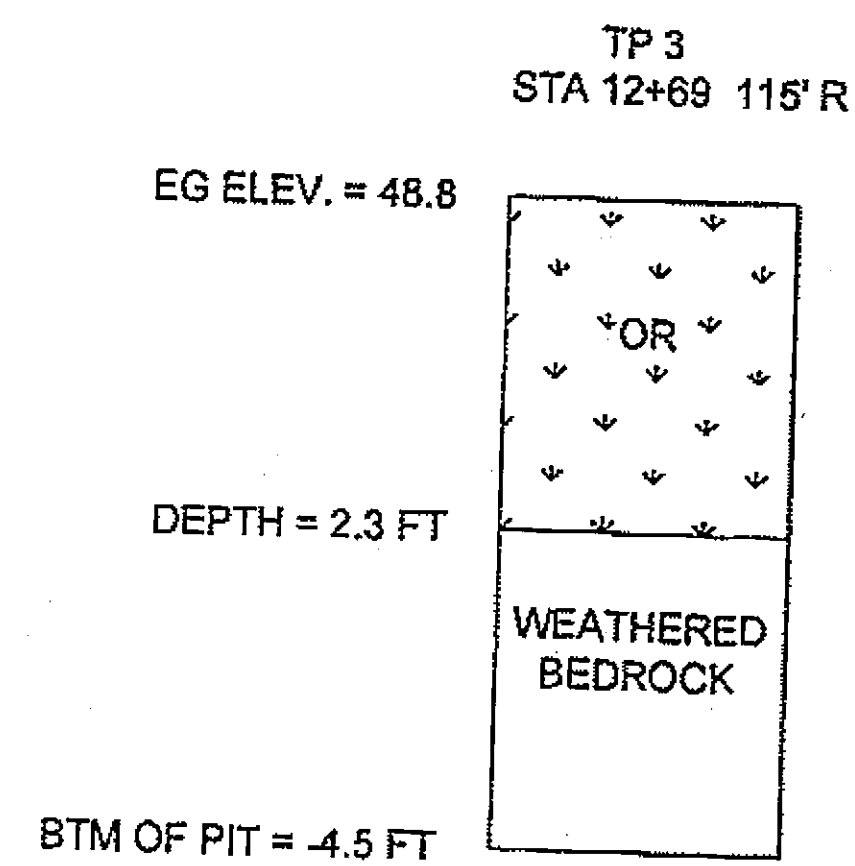
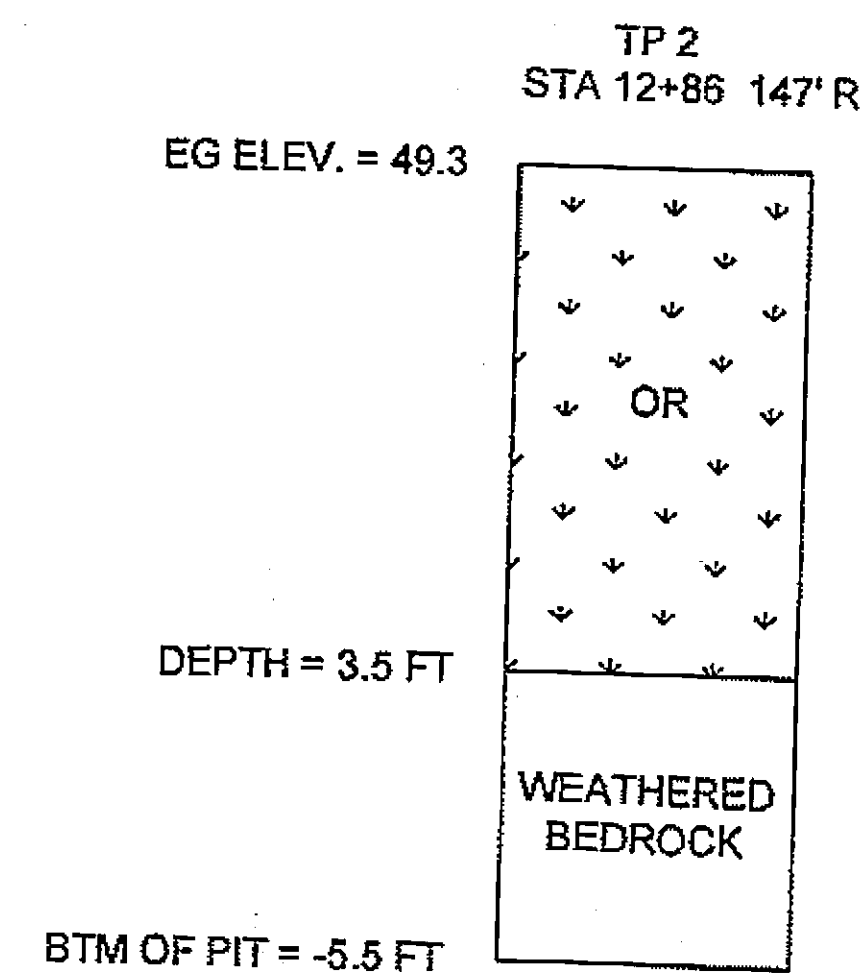
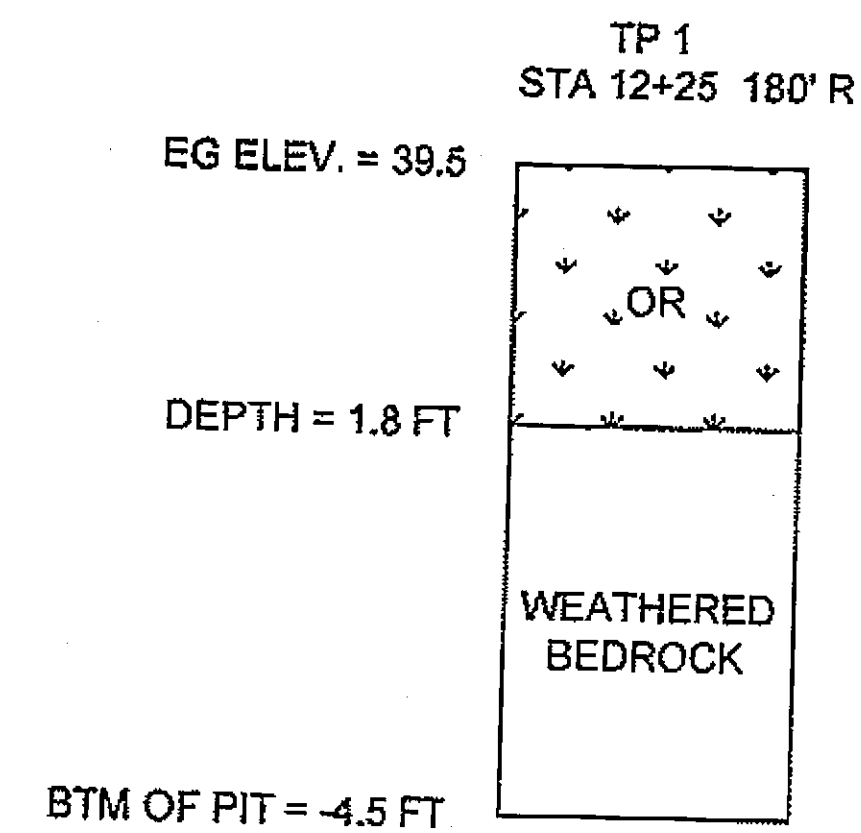
10"

INSTALL 10" TEE WITH
(2) TWO 10" VALVES AND (1) ONE 8" VALVE
INSTALL 10" x 8" REDUCER ON NORTH LEG OF TEE.
STA. 25+01.12, 3.78' RT.
N=99182.56
E=200323.61

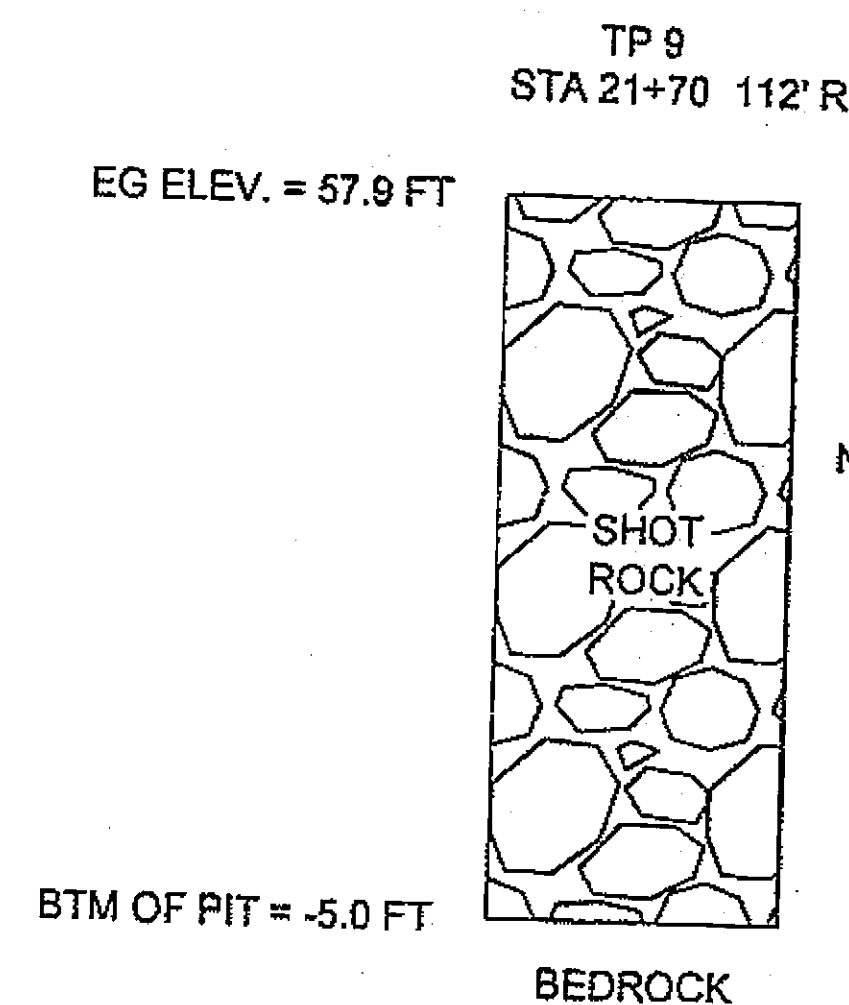
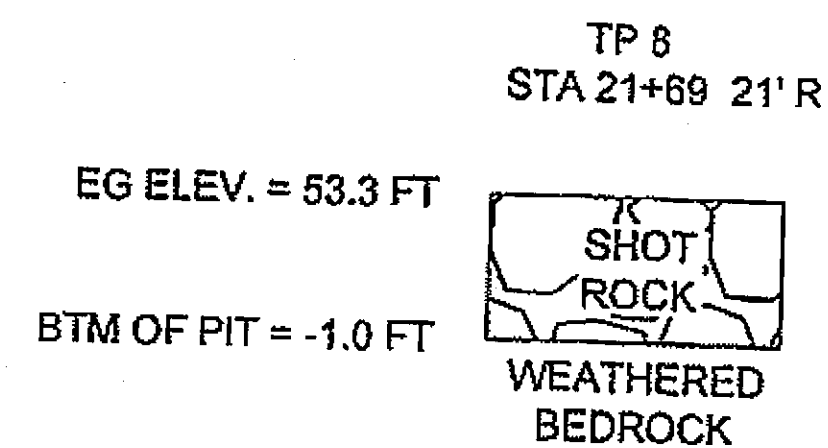
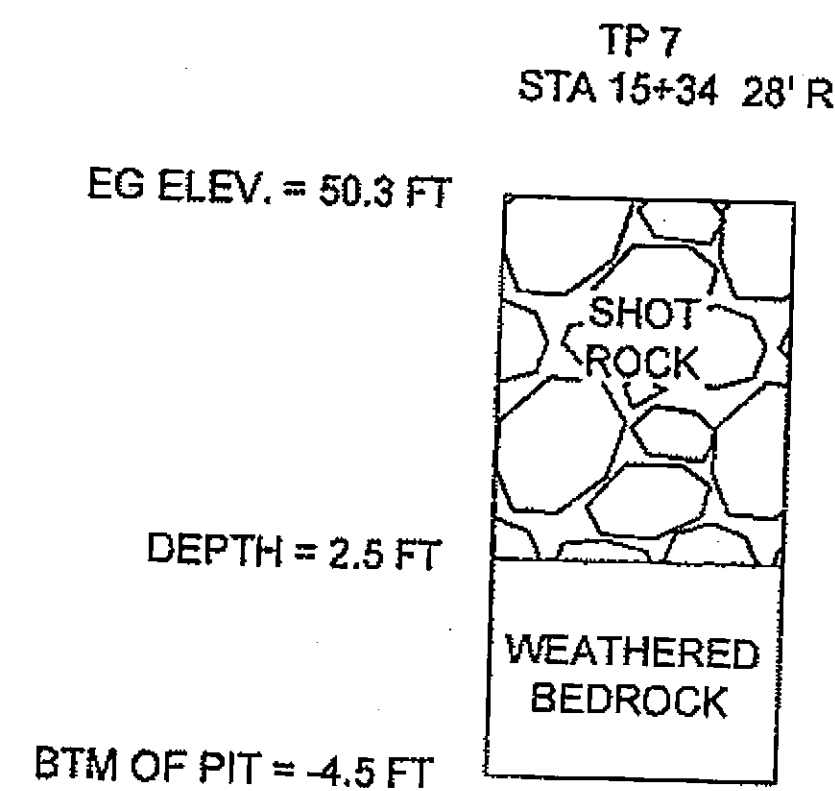
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DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

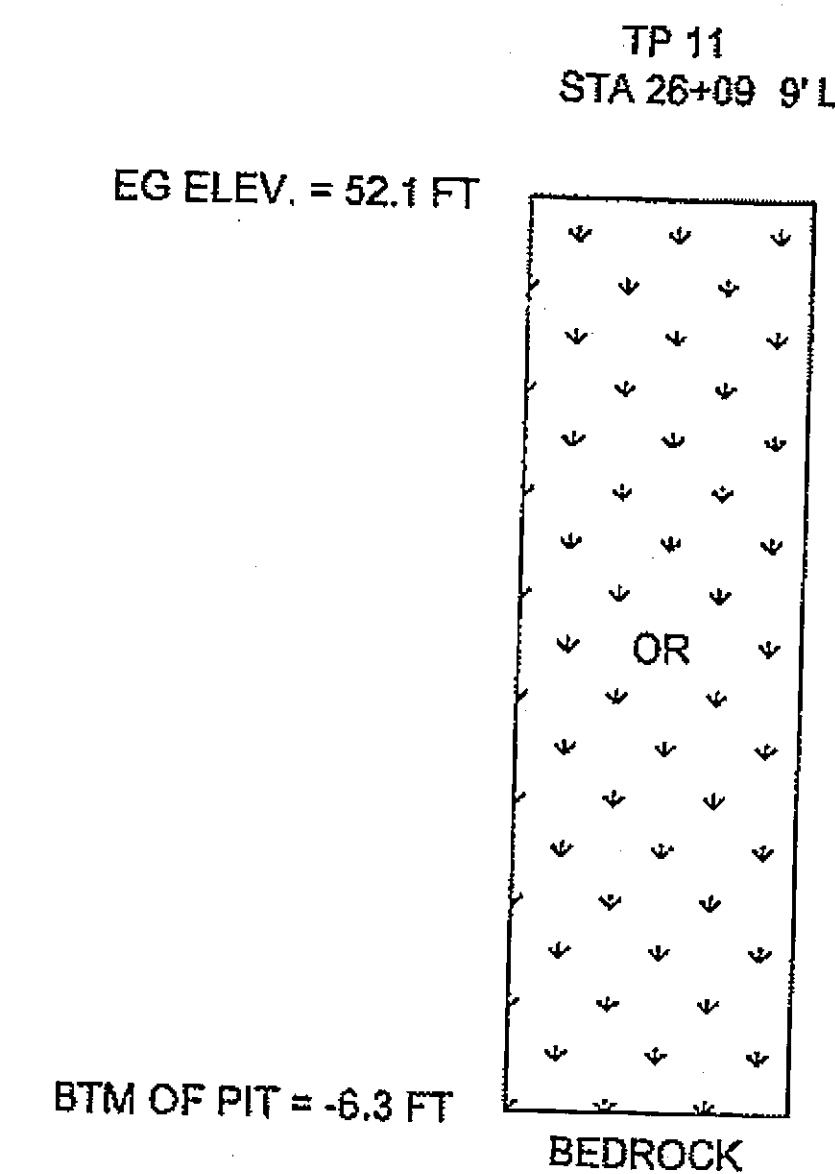
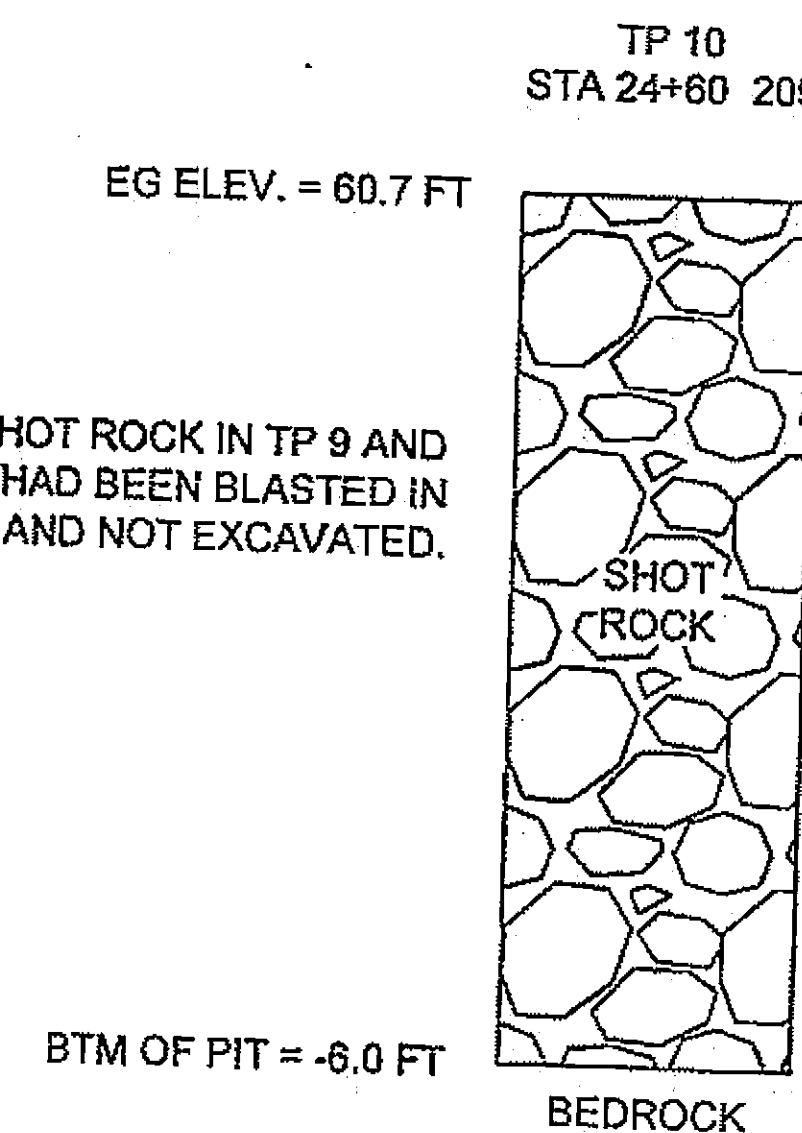
CHECKED BY: <u>MS / BMC</u> 	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK, ALASKA KLAWOCK AIRPORT WATER IMPROVEMENTS HYDRANT AND VALVE DETAILS																							
PLANS DEVELOPED BY: <u>KETA ENGINEERING</u> DESIGNED BY: <u>MS</u> DRAWN BY: <u>JW</u>	PATH: <u>Q:\2005\106180 - KLAWOCK\CAD\PLANS\SETS\68904_E1-5_DETAILS.DWG</u> TAB: <u>E2 - DETAIL</u> Wednesday, May 16, 2007 - 4:13pm JAKE VALDER																							
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REVISIONS																								
NO.	DATE	DESCRIPTION																						
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																					
68904	2007	E2	9																					



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *K. S. Val* Date 2-13-08



NOTE: SHOT ROCK IN TP 9 AND TP 10 HAD BEEN BLASTED IN PLACE AND NOT EXCAVATED.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: MS/BMC

DESIGNED BY: MS

DRAWN BY: JW

PATH:

TAB:

PLANS DEVELOPED BY KETA ENGINEERING

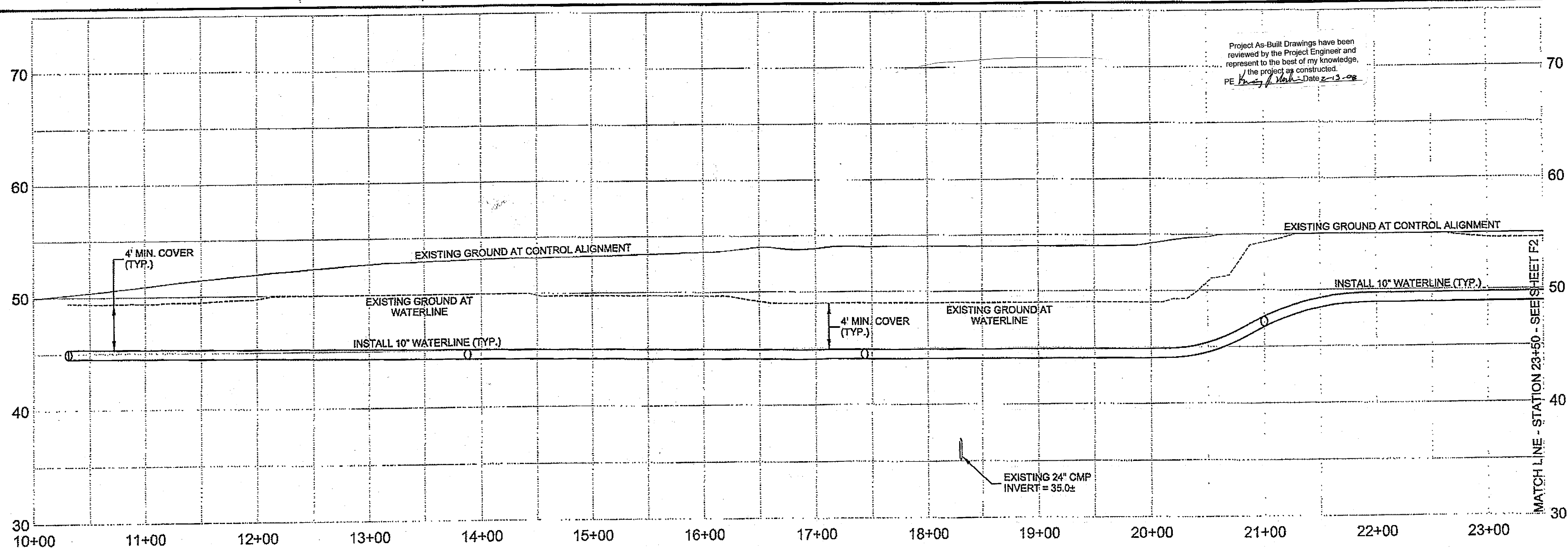
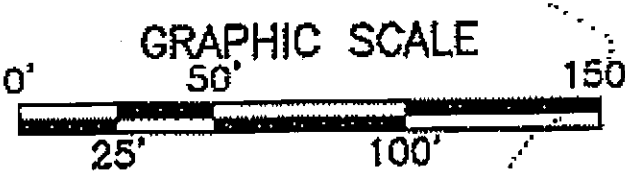
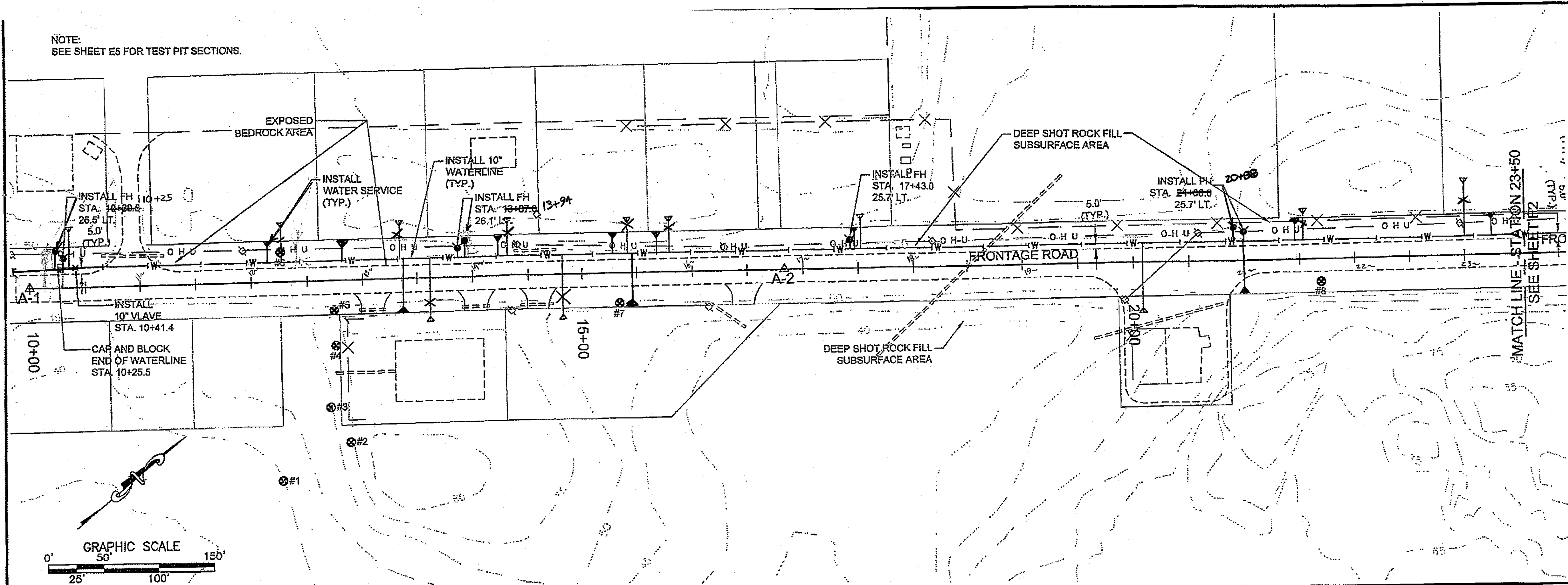
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

KLAWOCK, ALASKA
KLAWOCK AIRPORT
WATER IMPROVEMENTS

TEST PIT SECTIONS

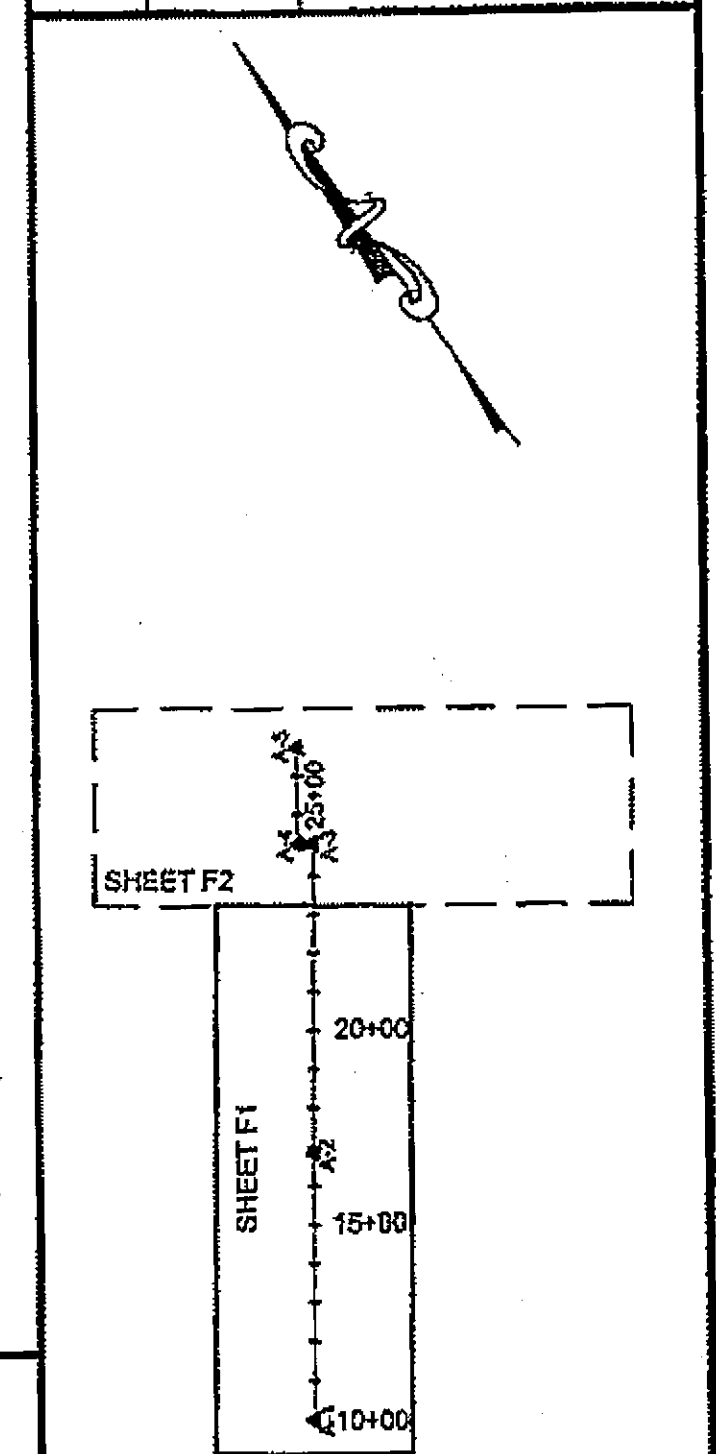
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68904	2007	E3	9

NOTE:
SEE SHEET E5 FOR TEST PIT SECTIONS.



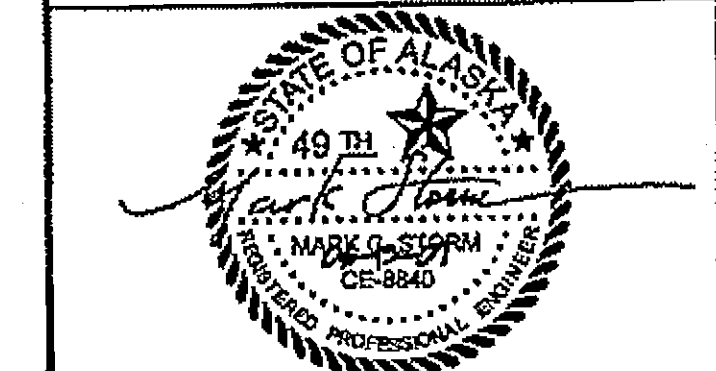
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PE *[Signature]* Date 2-13-08

PATH:		
Thu, 14/Jun/07 10:31AM jwilder		
TAB: F1 - PP		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN & PROFILE ORIENTATION

CHECKED BY: MS/BMC



PLANS DEVELOPED BY KETA ENGINEERING

DESIGNED BY: MS

DRAWN BY: JW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
KLAUOCK, ALASKA
KLAUOCK AIRPORT
WATER IMPROVEMENTS

PLAN / PROFILE SHEET

PROJECT DESIGNATION

68904

STATE YEAR

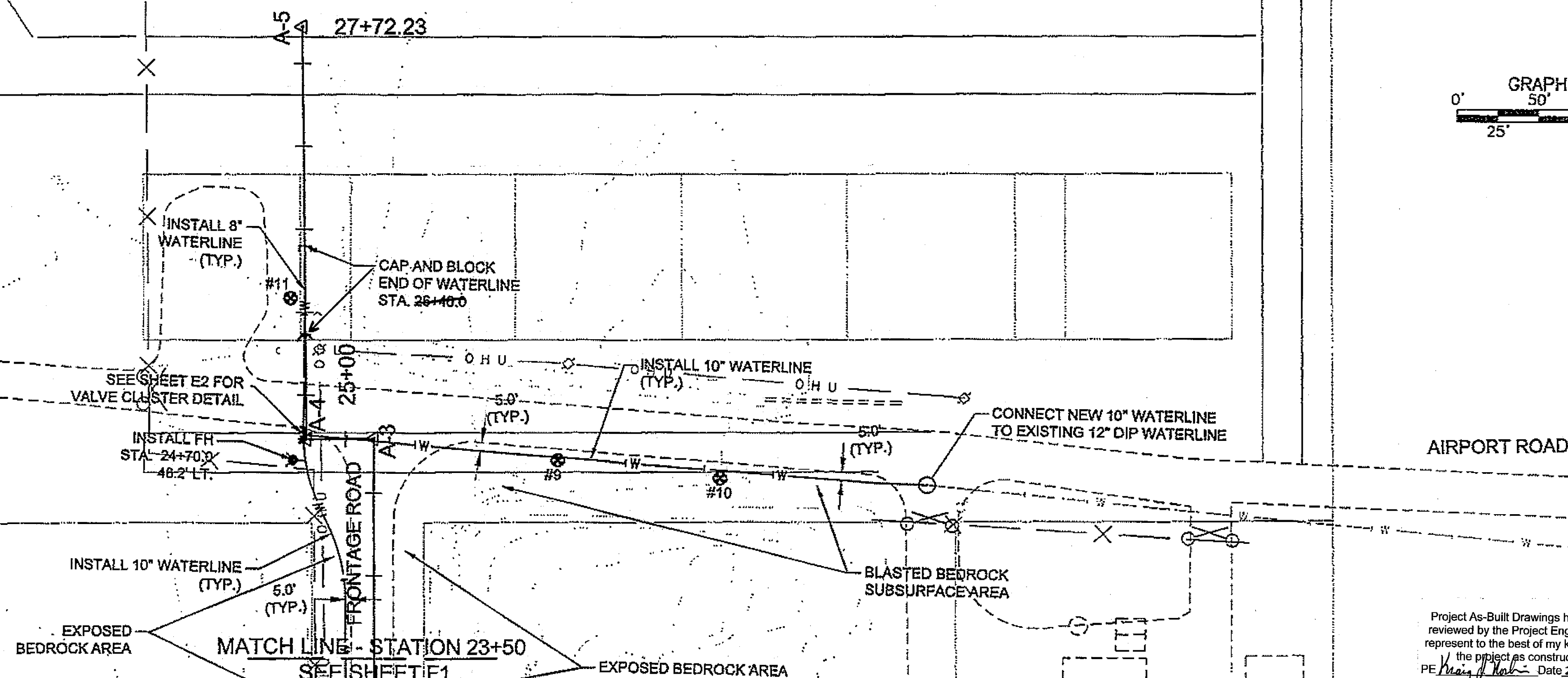
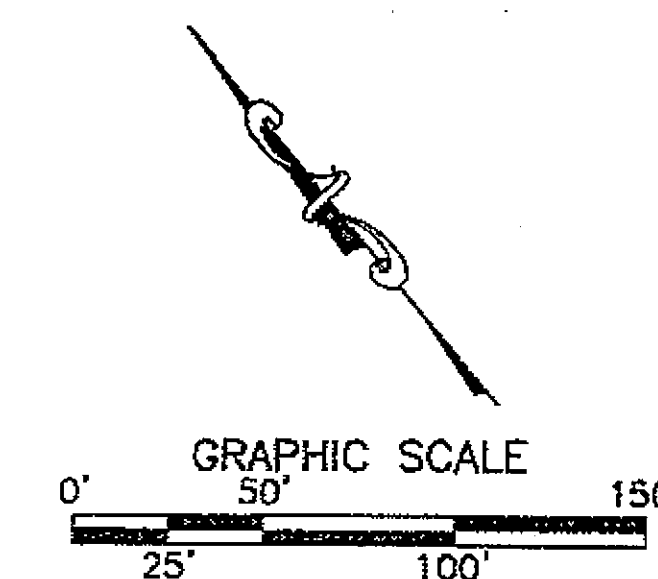
ALASKA 2007

SHEET NUMBER TOTAL SHEETS

F1 9

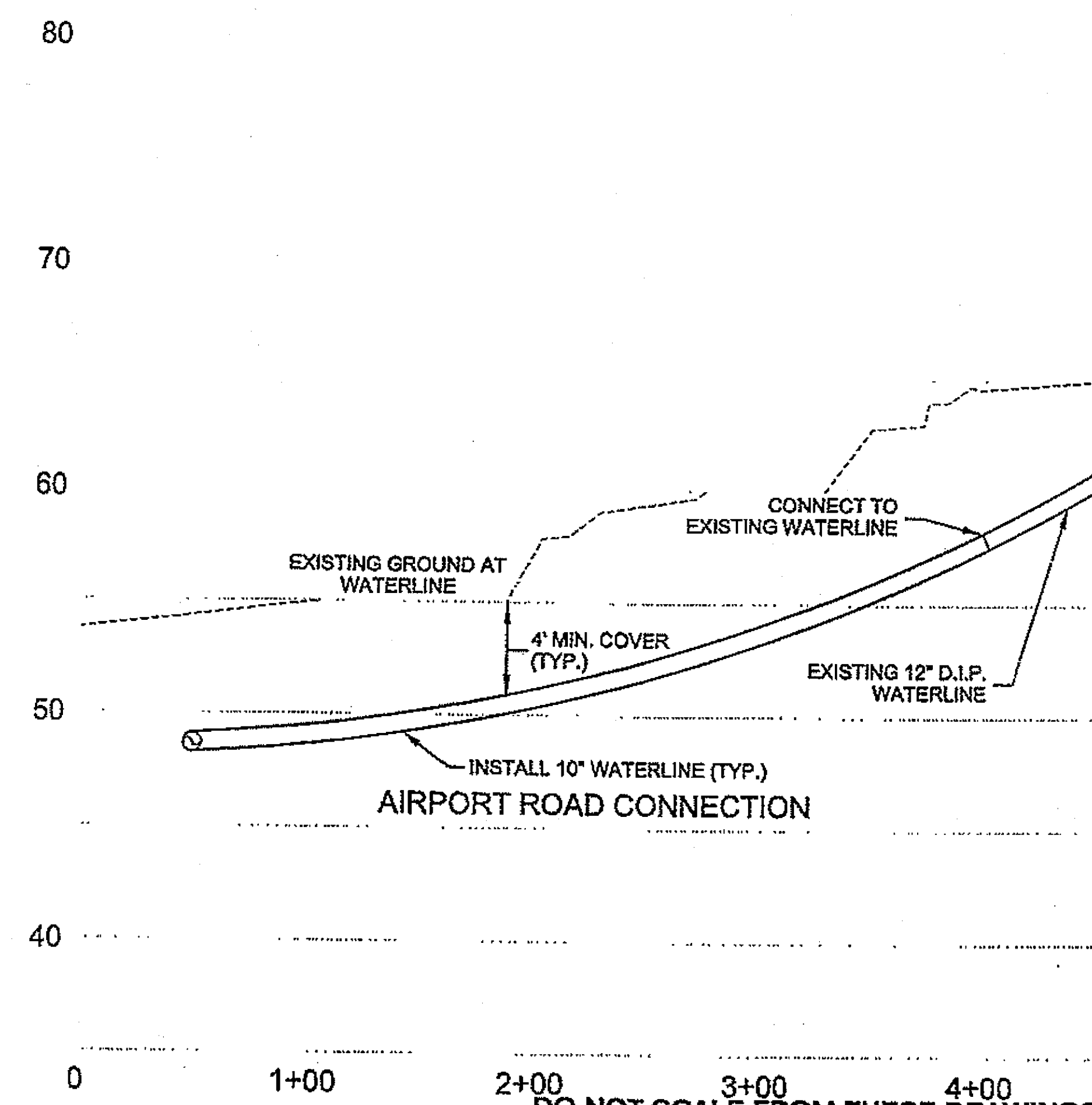
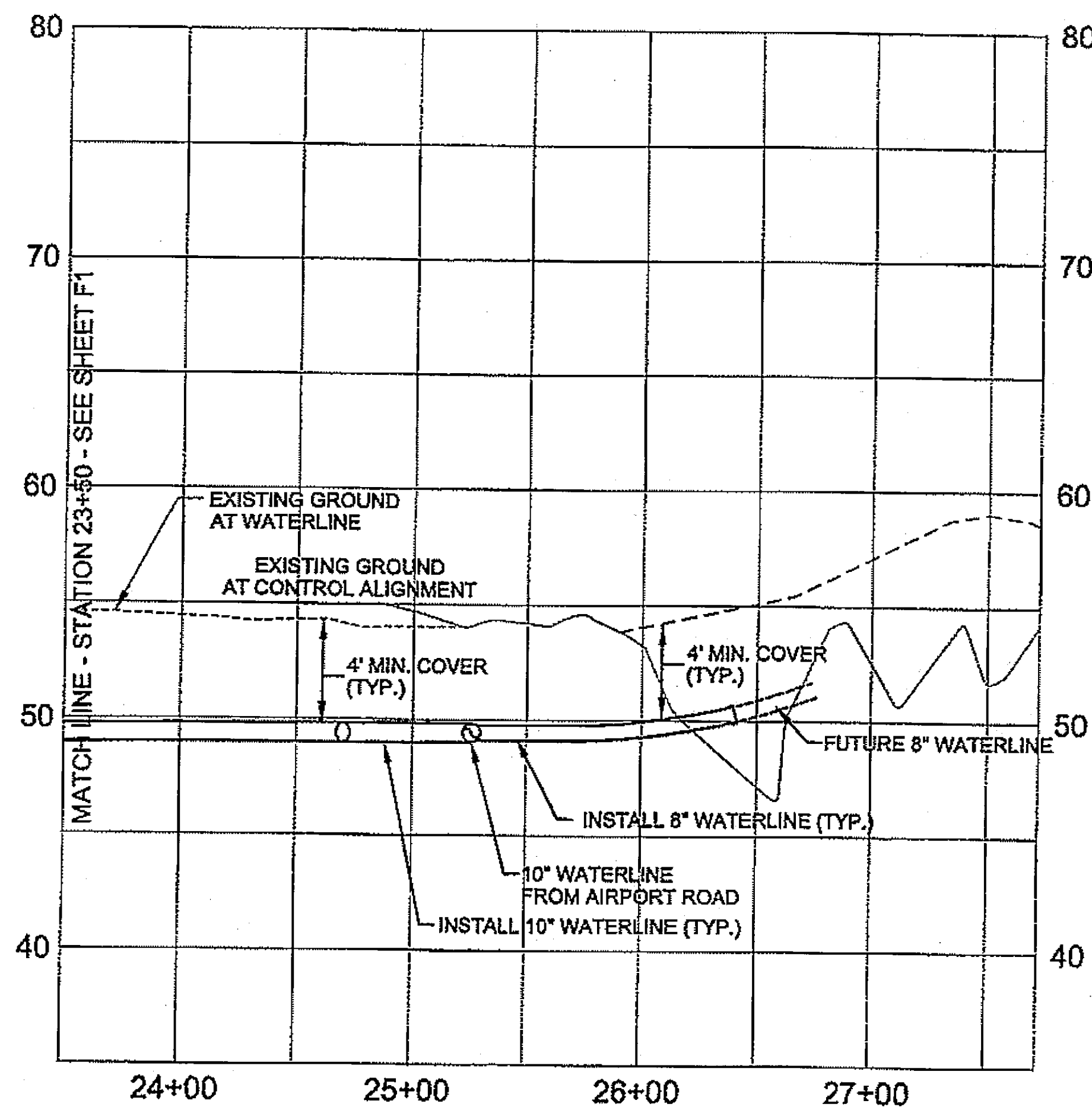
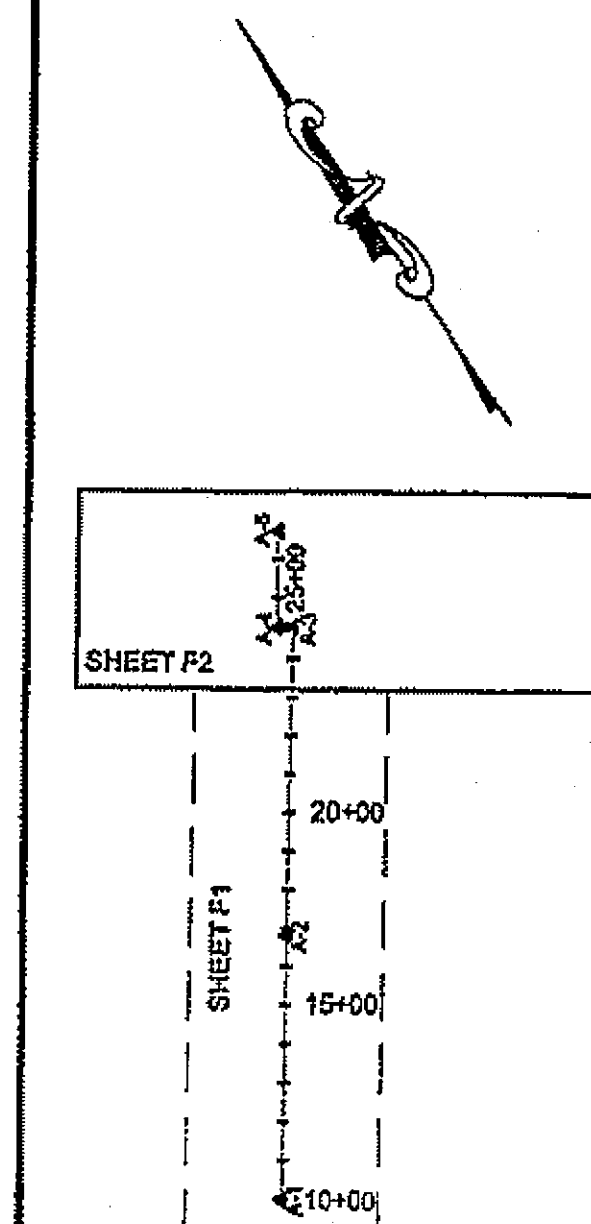
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

NOTE:
SEE SHEET E5 FOR TEST PIT SECTIONS.



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Mark C. Storm* Date 2-13-08

PATH:		
Wed, 16/May/07 04:14PM jwilder		
TAB: F2 - PP		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

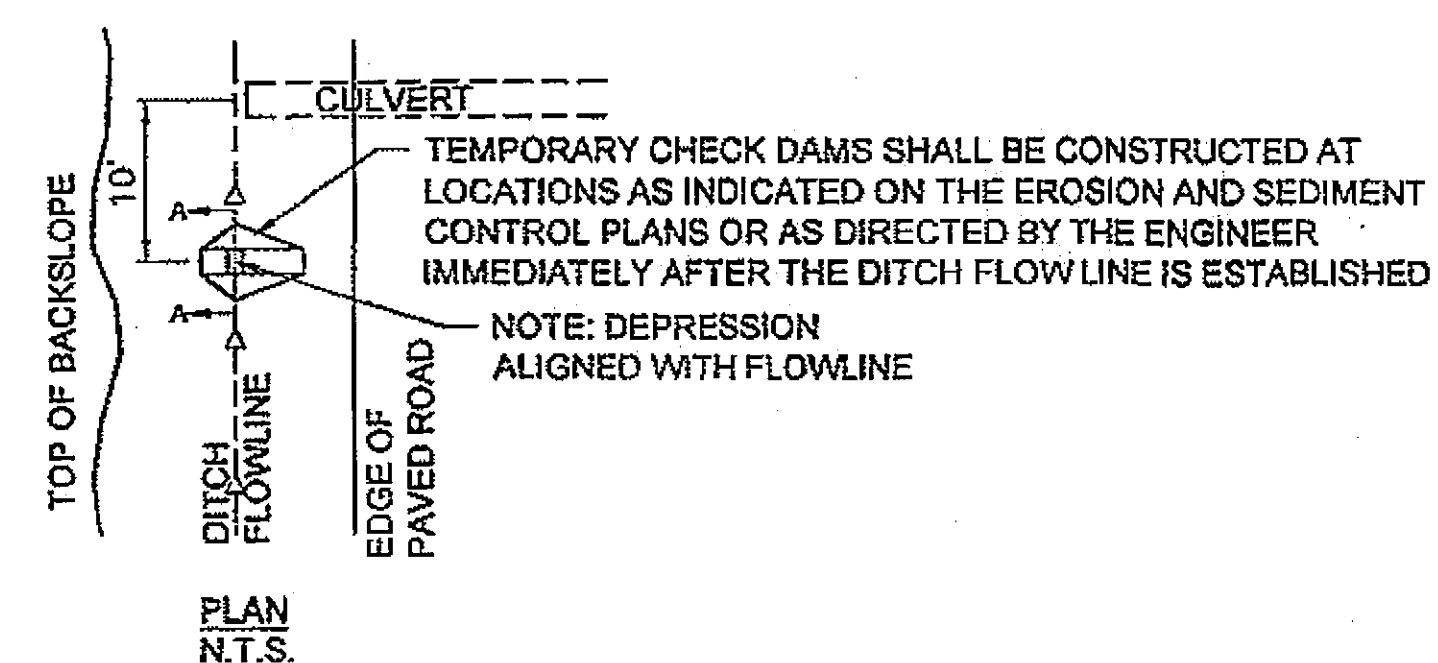
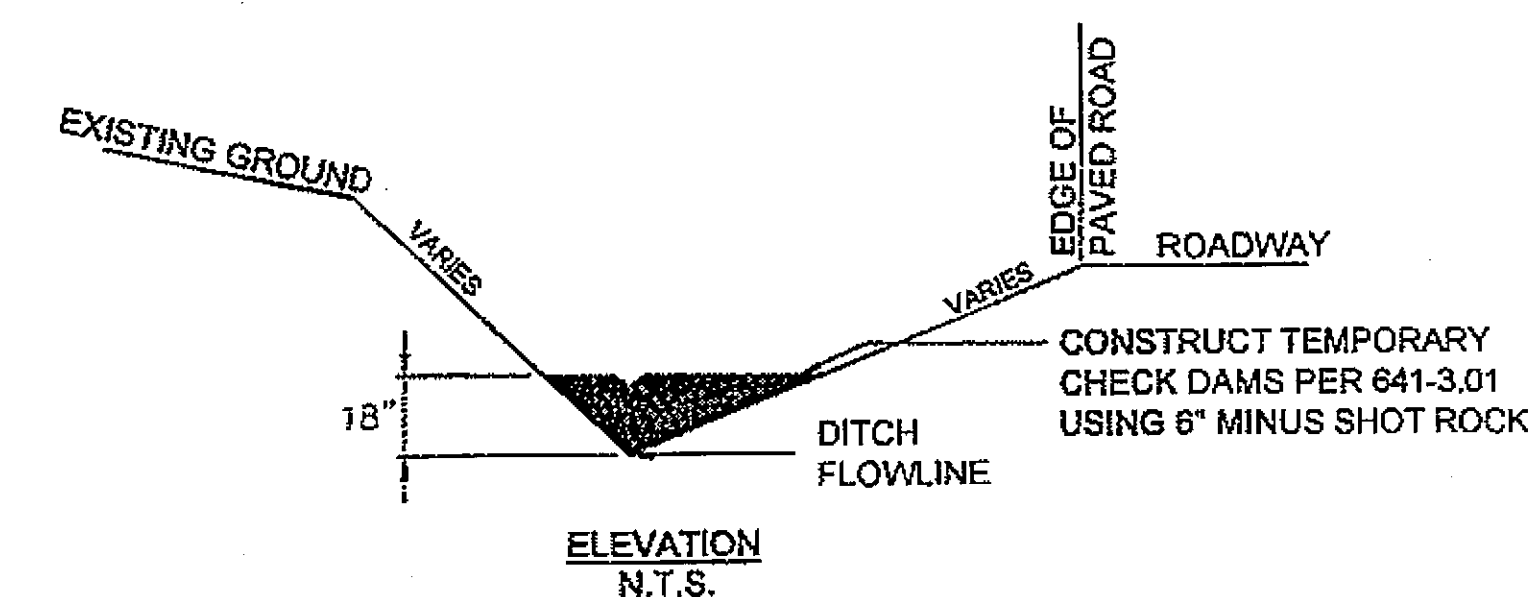
PLAN & PROFILE ORIENTATION

CHECKED BY: MS / BMC

PLANS DEVELOPED BY KETA ENGINEERING
DESIGNED BY: MS
DRAWN BY: JW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
KILLOUCK, ALASKA
KILLOUCK AIRPORT
WATER IMPROVEMENTS

PLAN / PROFILE SHEET	
PROJECT DESIGNATION	
68904	
STATE	YEAR
ALASKA	2007
SHEET NUMBER	TOTAL SHEETS
F2	9



TEMPORARY CHECK DAM

