

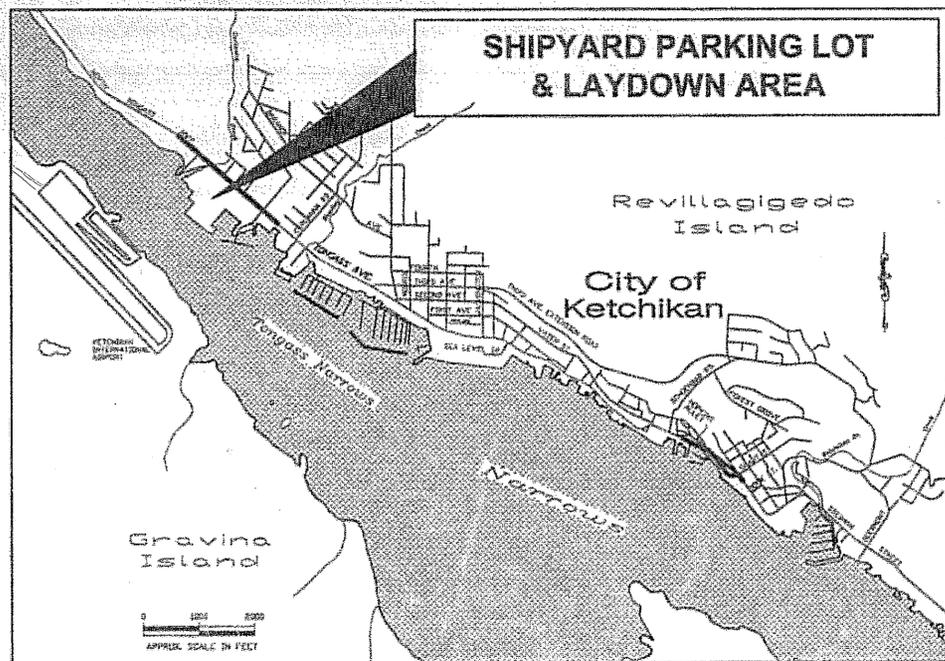
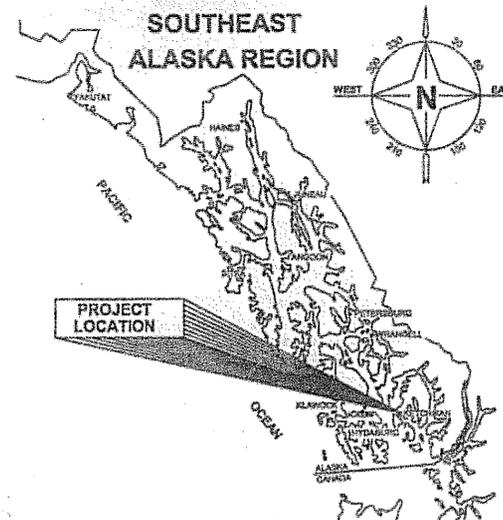
# State of Alaska

## Department of Transportation and Public Facilities

Design and Engineering Services Division-Southeast Region

# KETCHIKAN, ALASKA SHIPYARD PARKING LOT & LAYDOWN AREA

69115



VICINITY MAP

**THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:**

- D-01.02
- D-20.03
- D-22.01
- D-25.00
- D-26.02
- D-35.00
- E-13.00
- F-01.01
- F-03.01

**INDEX**

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SURVEY CONTROL
A3	ALIGNMENT CONTROL
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARIES
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G1-G8	GRADING PLANS
J1-J4	FENCING & GATE DETAILS
K1-K2	DRAINAGE DETAILS
L1-L2	ELECTRICAL PLANS
M1	MISCELLANEOUS DETAILS
T1	EROSION & SEDIMENT CONTROL PLAN

As Built Plans  
 Project Engineer: Mark Figley  
 Start: September 21, 2006  
 End: April 10, 2007

*mf - 9-28-09*

PATH: Q:\KTM08908R\PLANSET\A1\_TITLE.DWG TAB:A1  
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 PLOT: PSPACE OR MSPACE: 1=1(F)

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



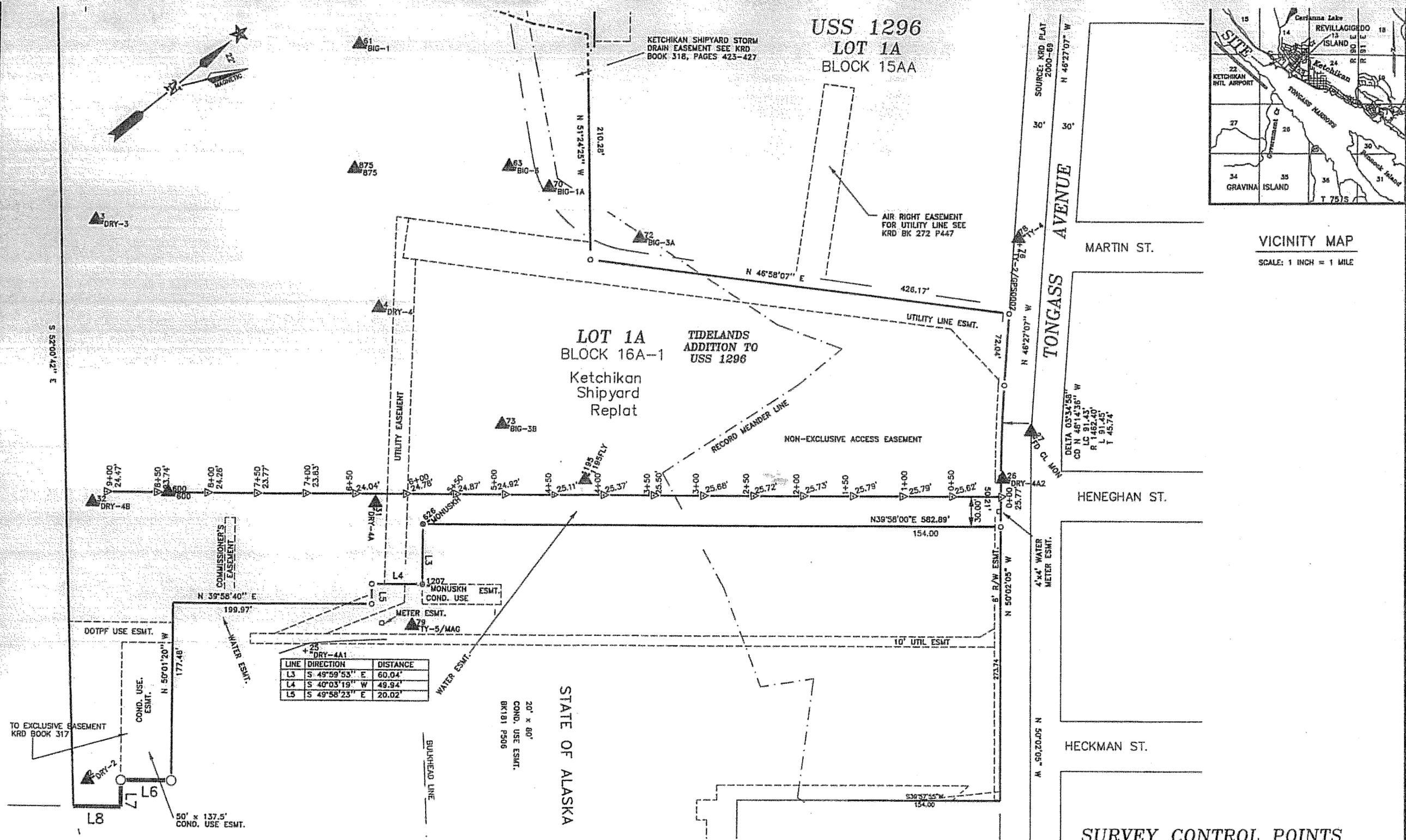
APPROVED: *Jack D. Beedle* 7/24/06  
 REGIONAL PRE-CONSTRUCTION ENGINEER DATE  
 JACK D. BEEDLE, P.E.

APPROVED: *Malcolm A. Menzies* 7-24-06  
 DIRECTOR, SOUTHEAST REGION DATE  
 MALCOLM A. MENZIES, P.E., P.L.S.

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

CONSTRUCTION PROJECT MANAGER DATE

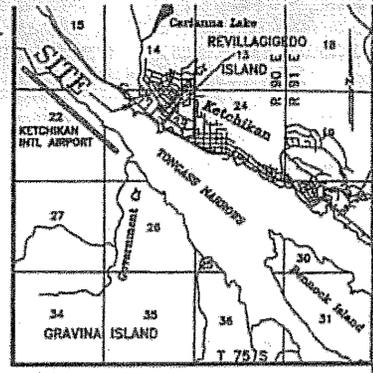
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ALASKA	69115	2006	A1



USS 1296  
LOT 1A  
BLOCK 15AA

LOT 1A  
BLOCK 16A-1  
Ketchikan Shipyard Replat

TIDELANDS  
ADDITION TO  
USS 1296



VICINITY MAP  
SCALE: 1 INCH = 1 MILE

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

SURVEY CONTROL

C:\Users\68566\Public\MSD\ALASKA Logp-4-17-06.jpg

CHECKED BY: SCOT MENZIES

DESIGNED BY: SCOT MENZIES

DRAWN BY: TREVOR SANDE

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
SHIPYARD PARKING LOT  
& LAYDOWN AREA  
PROJECT # 69115

SURVEY CONTROL

PROJECT DESIGNATION

69115

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
A2	24

LINE	DIRECTION	DISTANCE
L3	S 49°59'53" E	60.04'
L4	S 40°03'19" W	49.94'
L5	S 49°58'23" E	20.02'

**SYMBOLS**

- ▲ PK NAIL SET IN ASPHALT
- SECONDARY MONUMENT
- ▼ SURVEY CONTROL POINT
- KRD KETCHIKAN RECORDING DISTRICT

**NOTES**

1. Elevation datum is based on Mean Lower Low Water (MLLW) = 0.00'.
2. The elevation bench mark for this project is a rounded brass cap found in the sidewalk at the U.S. Post Office. The elevation of this mark is 25.78' above MLLW.
3. Plat reference for LOT 1A, BLOCK 16A-1 of the KETCHIKAN SHIPYARD REPLAT is Ketchikan Recording District Plat 2005-18.

**SURVEYOR'S CERTIFICATE**

I hereby certify that I am a registered surveyor, licensed in the State of Alaska, and that in Nov. of 2005, a survey of the herein described lands was conducted under my direct supervision and that this plat is a true and correct representation of the field notes of said survey, and that the dimensions and other details are correct according to said field notes.

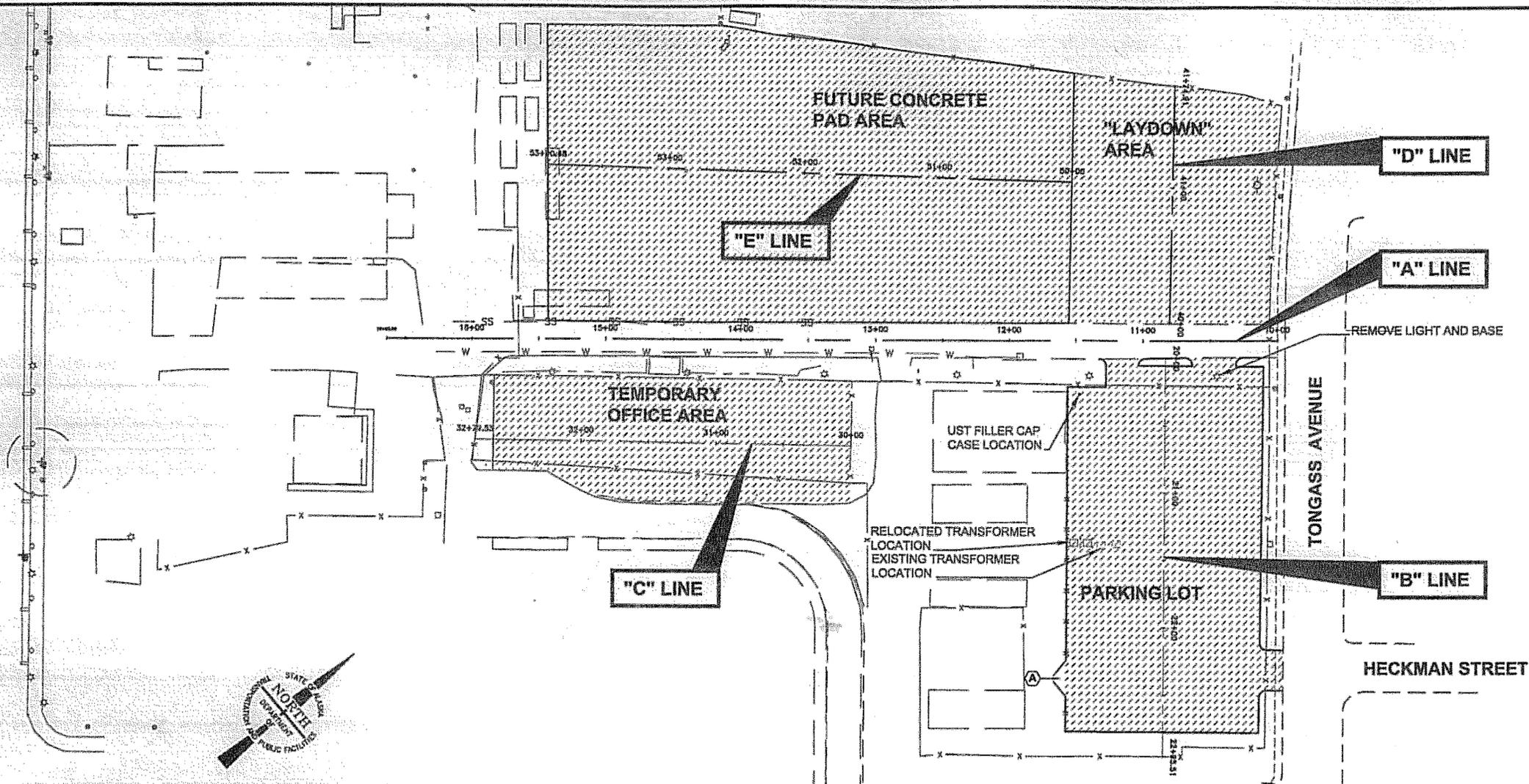
Date: 7/21/06  
Signature: Scot Menzies



**SURVEY CONTROL POINTS**

No.	Northing	Easting	Elev.	Name	Point Description
2	18989.61	19767.76	25.12	DRY-2	
3	19349.68	19339.28	24.89	DRY-3	
4	19513.98	19589.21	24.27	DRY-4	
5	19019.85	20314.82	23.81	DRY-5	
25	19239.97	19607.43	24.42	DRY-4A1	
26	19889.30	20123.39	25.87	DRY-4A2	
27	19941.25	20105.39	25.93	FD CI MON	
31	19387.70	19738.31	24.47	DRY-4A	
32	19168.87	19556.67	24.10	DRY-4B	
61	19885.73	19372.19	21.44	BIG-1	
62	20087.71	19111.32	16.97	BIG-2	
63	19704.46	19585.40	23.79	BIG-3	
70	19722.64	19805.38	23.09	BIG-1A	
72	19760.76	19703.34	24.08	BIG-3A	
73	19535.36	19758.85	24.95	BIG-3B	
76	20052.45	19953.40	28.25	TY-2/GPSS0002	
78	20055.23	19947.97	28.34	TY-4 TY-4	
79	19337.59	19855.85	24.89	TY-3/MAG	
600	19233.55	19596.85	24.29	600	
626	19410.52	19784.43	24.47	MONUSKH	
875	19585.24	19486.03	23.92	875	
1195	19585.23	19855.37	25.16	1195FLY	
1207	19571.92	19830.50	24.46	MONUSKH	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



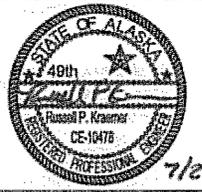
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	STATION	NORTHING	EASTING	BEARING	DISTANCE
<b>"A" LINE</b>					
PT	10+00	19881.213	20133.047	S 39° 42' 41.18" W	663.98
<b>"B" LINE</b>					
PT	20+00	19808.643	20990.039	S 60° 02' 05.00" E	295.50
<b>"C" LINE</b>					
PT	30+00	19585.956	19990.458	S 40° 30' 03.28" W	279.52
<b>"D" LINE</b>					
PT	40+00	19827.358	20072.240	S 49° 16' 18.97" W	174.49
<b>"E" LINE</b>					
PT	50+00	19837.426	19945.623	S 41° 26' 41.27" W	400.00

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 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  
 No. DATE DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115  
 ALIGNMENT CONTROL PLAN



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK  
 DRAWN BY: B. BENNETT, R.L.G.  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
 SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT # 69115

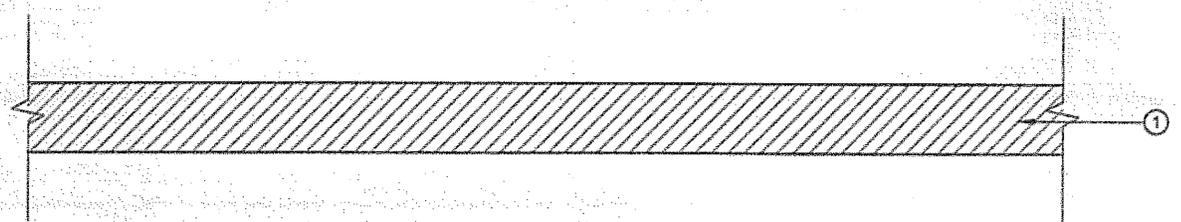
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 PROJECT DESIGNATION  
 69115  
 STATE ALASKA  
 YEAR 2006  
 SHEET NUMBER A3 TOTAL SHEETS 25

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

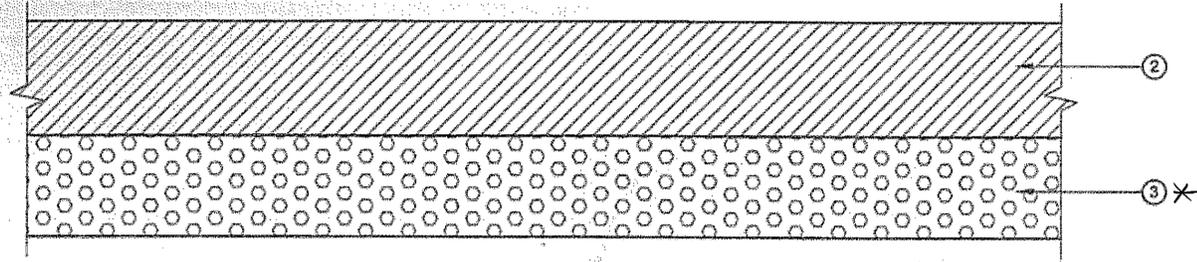
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

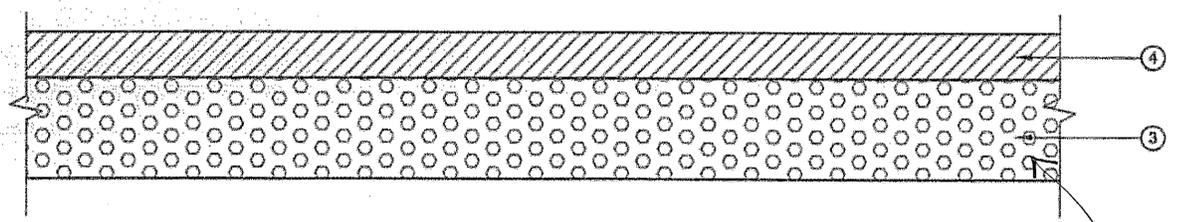
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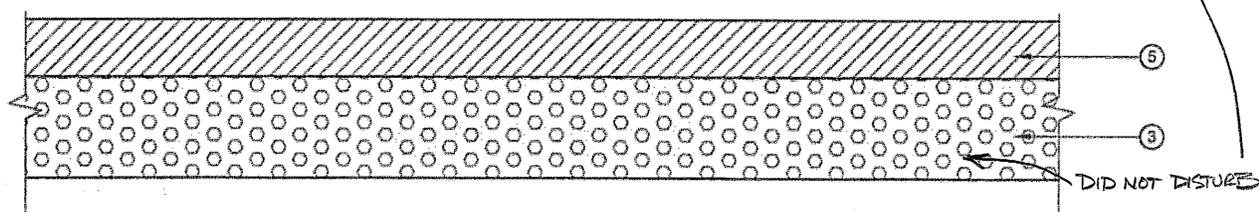
"LAYDOWN" AREA



PARKING LOT



TEMPORARY OFFICE AREA



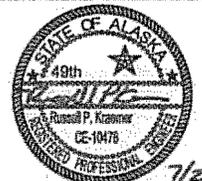
FUTURE CONCRETE PAD AREA

**LEGEND:**

- ① 6" AGGREGATE BASE COURSE, GRADING D-1
- ② 8" AGGREGATE BASE COURSE, GRADING D-1
- ③ BORROW TYPE A 10" MIN. \*
- ④ 3" AGGREGATE BASE COURSE, GRADING D-1
- ⑤ 3" AGGREGATE BASE COURSE, GRADING D-1



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

**TYPICAL SECTIONS**

PROJECT DESIGNATION  
**69115**

STATE	YEAR
<b>ALASKA</b>	<b>2006</b>

SHEET NUMBER	TOTAL SHEETS
<b>B1</b>	<b>25</b>

*3/16 9-2809*

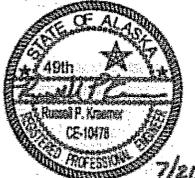
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

ESTIMATE  
OF QUANTITIES



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
SHIPYARD PARKING LOT  
& LAYDOWN AREA  
PROJECT # 69115

**ESTIMATE OF QUANTITIES**

PROJECT DESIGNATION

69115

STATE ALASKA YEAR 2006

SHEET NUMBER TOTAL SHEETS

C1 25

**ESTIMATE OF QUANTITIES**

Item No.	Pay Item	Pay Unit	Quantity
201 (3A)	Clearing And Grubbing	Acre	1
202(1)	Removal of Structures and Obstructions	Lump Sum	All Required
203(3)	Unclassified Excavation	Cubic Yard	1400 2595.75
203 (6)	Borrow Type A	Ton	1800 3796.38
301 (1)	Aggregate Base Course, Grading D-1	Ton	6700 Deleted CO
603(2-1)	42 x 29 Inch CSP Arch	Linear Foot	55 59
603 (21) -18	18 Inch Corrugated Polyethylene Pipe	Linear Foot	218 647.60
604(1)	Storm Sewer Manhole 48 Inch	Each	2 1
604(5)	Inlet, Type A	Each	9 11
604(8)	Trench Drain	Linear Foot	150 0
607(3)	Chain Link Fence	Linear Foot	180 719.90
607(5)	Drive Gate	Each	1
633(1)	Silt Fence	Linear Foot	150 130.3
640 (1)	Mobilization And Demobilization	Lump Sum	All Required
640(4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Required
641(5)	Inlet Protection	Each	11 14
641(6)	Containment of Contaminated Material	Lump Sum	All Required
643(30)	Traffic Control and Parking Plan	Lump Sum	All Required
690(1)	UST Filler Cap Case	Lump Sum	All Required
691(1)	Relocate Transformers	Lump Sum	All Required Deleted
642 (3)	Three Party Surveying	Hour	82.04
301 (12)	Aggregate Base Course	Ton	6574.39
607 (7)	Cantilever Gate	Lump Sum	All Required
607 (8)	Removal of Fence	Foot	2750
401 (1)	Asphalt Concrete Type II	Ton	641.15
402 (1)	Asphalt Cement, Grade PG 58-22	Ton	35.26
603(21) -21	12" Corrugated Polyethylene Pipe	Linear Foot	221.0
202(1a)	Removal of Rails	Lump Sum	All Required
627(1a)	10" HDPE	Lump Sum	All Required
601(1a)	Relocate Transformers	Lump Sum	All Required
601(7)	Utility Vault Riser	Lump Sum	All Required
601(8)	Temporary Office Utilities	Lump Sum	All Required
601(9)	Meter Bases	Lump Sum	All Required
604(1a)	Storm Sewer Manhole 60"	Each	1

**RELOCATE TRANSFORMERS**

DESCRIPTION PRIMARY FACILITIES	Unit	QTY	DESCRIPTION SECONDARY FACILITIES	Unit	QTY
200 A-15 kV 3 PH FG	Each	1	480/277 V CT Rated	Each	1
Sectionalizing Enclosure			Meter Base		
75 kVA 120/240 V 1 PH	Each	1	120/240 V CT Rated	Each	1
Power Transformer			Meter Base		
Transformer Box Pad	Each	1	225 A 25 KAIC Two	Each	1
#2 CU 15 kV EPR JCN	Linear Foot	540	Pole Circuit Breaker		
Primary Cable			200 A 25 KAIC Two	Each	2
			Pole Circuit Breakers		
4" SCH 80 PVC Conduit	Linear Foot	140	225 A 10 KAIC Two	Each	1
Primary Utility Trench	Linear Foot	140	Pole Circuit Breaker		
200 A-15 kV Four Position	Each	3	200 A 10 KAIC Two	Each	2
Junctions			Pole Circuit Breakers		
200 A-15 kV Terminations	Each	8	Three Position Transformer	Each	3
Equipment Grounds	Each	2	Spade Terminals		
Bollard Posts	Each	4	4/0 AWG CU XHHW-2 600 V	Linear Foot	570
			Conductor		
<b>REMOVALS</b>			3/0 AWG CU XHHW-2 600 V	Linear Foot	1100
Primary Metering Enclosure	Each	1	Conductor		
150 kVA 480 V 3 PH	Each	1	3" SCH 80 PVC Conduit	Linear Foot	175
Power Transformer			2" SCH 80 PVC Conduit	Linear Foot	125
50 kVA 120/240 V 1 PH Dry	Each	3	Secondary Utility Trench	Linear Foot	300
Type Transformers			Equipment Ground	Each	1
100 A Two Pole Circuit Breakers	Each	2	Service Ground	Each	1
100 A Fused Disconnect Switch	Each	1	Building Grounds	Each	3
#2 CU XHHW 600 V Conductor	Linear Foot	990	2' X 5.5' Equipment	Each	1
1.5" RMC Conduit	Linear Foot	310	Mounting Frame		
Light Pole and Concrete	Each	1	2' X 3' X 1.5' Concrete Foundation	Each	1
Foundation DID NOT REMOVE			3' X 5.5' Equipment Mounting	Each	1
			Frame		
			2' X 4' X 1.5' Concrete Foundation	Each	1

**BASIS OF ESTIMATE**

Item No.	Item	Estimating Factor
202(1)	Removal of Structures and Obstructions	Multiple cars, boats, parking blocks, removal of fence and any other debris within the project limits
203 (6)	Borrow, Type A	1.85 Ton/C.Y.
301 (1)	Aggregate Base Course, Grading D1	1.95 Ton/C.Y.
691 (1)	Relocate Transformers	See table this sheet

7-9-2009  
MB

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

SUMMARIES

### 603 PIPE SUMMARY

PIPE NO.	TYPE	SIZE (WxH)	LENGTH (FT)	STATION	INLET OFFSET	INV.	STATION	OUTLET OFFSET	INV.	SLOPE	REMARKS
P-1	CPP	18	192.12	20+63.78	0	20.59	21+97.67	0	19.92	0.5%	
P-2	CPP	18	71.98	22+03.46	2.00 LT	19.72	22+60.15	44.41 LT	18.98	1.0%	
P-3	CMP	42 x 29	31.32	22+45.87	77.18 LT	17.47	22+61.18	50.44 LT	17.13	1.1%	
P-4	CMP	42 x 29	24.21	22+66.65	44.95 LT	17.10	22+87.22	32.75 LT	16.60	2.1%	
P-5	CPP	18	78.83	30+57.20	0	20.45	31+32.80	0	19.69	1.0%	
P-6	CPP	18	76.73	32+12.80	0	20.73	31+37.20	0	19.97	1.0%	
P-7	CPP	18	35.95	31+35.00	2.28 LT	19.77	31+35.00	37.21 LT	19.44	0.9%	
P-8	CPP	18	7	41+02.09	25.00 LT		41+02.10	27.52 LT			45" Elbow connect between branch drain & S-8. Field fit to determine the length and invert elevations.
P-9	CPP	18	112.73	41+02.14	31.85 LT	19.20	50+68.28	0	18.28	0.8%	
P-10	CPP	18	111.15	50+72.60	0	18.25	51+83.39	0	17.34	0.8%	
P-11	CPP	18	98	52+85.31	1.23 LT	18.32	51+87.73	0	17.34	1.0%	Existing pipe remains in place
<b>TOTAL LENGTH (FT)</b>											
18" CPP =		718									
42 x 29 =		55									

### 604 MANHOLES AND INLETS SUMMARY

STRUCTURE NO.	STATION	OFFSET	ELEVATION		STRUCTURE TYPE	REMARKS
			GRATE ELEV.	SUMP ELEV.		
S-1	B-20+61.58	0	23.76	19.09	A, INLET	INSTALL NEW INLET
S-2	B-22+00.00	0	23.79	18.22	48" STORM DRAIN MANHOLE	INSTALL NEW MANHOLE
S-3	B-22+63.21	46.99 LT	25.66	15.64	60" 48" STORM DRAIN MANHOLE	INSTALL NEW MANHOLE
S-4	C-30+55	-8' 40"	22.95	18.57	A, INLET	INSTALL NEW INLET
S-5	C-31+35	8' 5"	22.83	18.19	A, INLET	INSTALL NEW INLET
S-6	C-32+15	8' 5"	23.23	18.57	A, INLET	INSTALL NEW INLET
S-7	C-31+35	41.54 LT	24.48	17.94	A, INLET	REPLACE EXISTING INLET
S-8	D-41+02.10	8' 10"	24.73	17.69	A, INLET	REPLACE EXISTING INLET
S-9	E-50+70.45	0	23.66	16.78	A, INLET	REPLACE EXISTING INLET
S-10	E-51+85.56	0	23.67	15.84	A, INLET	REPLACE EXISTING INLET
S-11	E-52+87.47	1.28 LT	23.35	16.82	A, INLET	REPLACE EXISTING INLET
S-12	D-41+48	0			A INLET	
S-13	D-40+23	0			A INLET	

### 607(5) DRIVE GATE

BEGIN STATION	OFFSET	END STATION	OFFSET	DESCRIPTION
22+21.50 RT	72.50 RT	22+52.50	72.50 RT	INSTALL NEW DRIVE GATE

SEE PLAN SHEET FOR ADDITION GATE

### 607(3) CHAIN LINK FENCE

BEGIN STATION	OFFSET	END STATION	OFFSET	DESCRIPTION
20+85.50	72.50 RT	22+21.50	72.50 RT	INSTALL NEW 6' CHAIN LINK FENCE
22+52.34	72.50 RT	22+85.50	72.5 RT	INSTALL NEW 6' CHAIN LINK FENCE

SEE PLAN SHEET FOR ADDITION FENCE



CHECKED BY: R. KRAEMER



DESIGNED BY: C. VANISZEK

DRAWN BY: B. BENNETT, R.L.G.

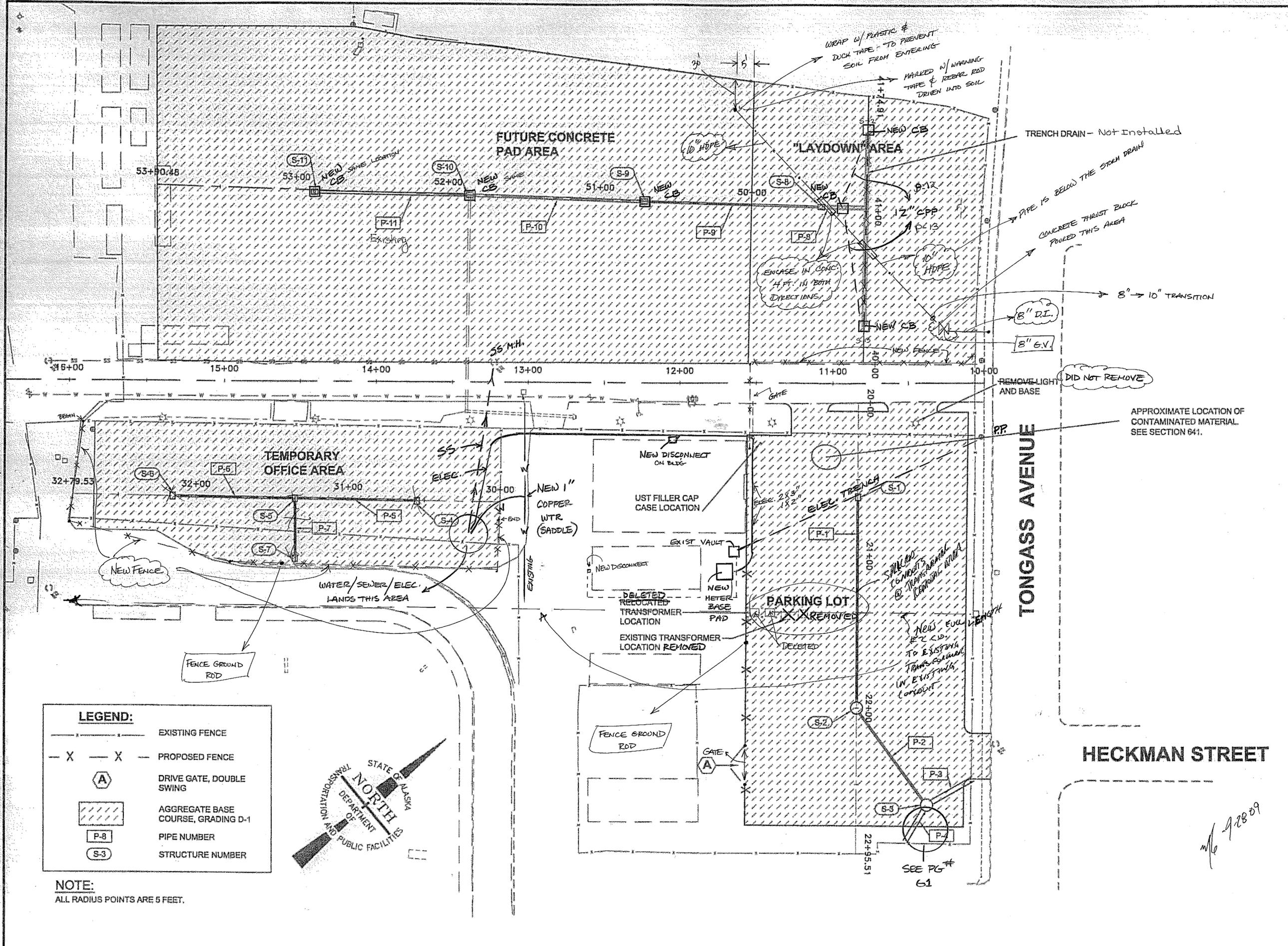
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

### SUMMARIES

PROJECT DESIGNATION  
**69115**

STATE	YEAR
ALASKA	2006

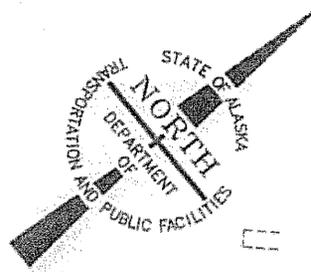
SHEET NUMBER	TOTAL SHEETS
D1	25



**LEGEND:**

- — — — — EXISTING FENCE
- X - X - PROPOSED FENCE
- (A) DRIVE GATE, DOUBLE SWING
- AGGREGATE BASE COURSE, GRADING D-1
- (P-8) PIPE NUMBER
- (S-3) STRUCTURE NUMBER

**NOTE:**  
ALL RADIUS POINTS ARE 5 FEET.



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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

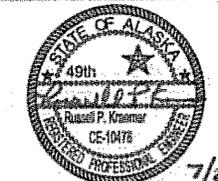
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

PLAN



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK  
DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

**PLAN**  
PROJECT DESIGNATION  
69115

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F1	25

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PARKING LOT GRADING TABLE							
POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION	POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION
7000	20+00	0	25.61	7043	21+50	0	25.20
7001	20+00	25 RT	25.61	7044	21+50	25 RT	24.86
7002	20+00	49 RT	25.61	7045	21+50	50 RT	24.63
7003	20+05.78	49 RT	RADIUS POINT = 5 FT	7046	21+50	72.50 RT	24.34
7004	20+00	25 LT	25.57	7047	21+50	25 LT	24.96
7005	20+00	50 LT	25.73	7048	21+50	50 LT	24.64
7006	20+00	72				72.85 LT	24.34
7007	20+25					0	24.54
7008	20+25	2				25 RT	24.89
7009	20+25	5				50 RT	25.24
7010	20+25	72				72.50 RT	25.55
7011	20+25	2				25 LT	24.88
7012	20+25	5				50 LT	25.23
7013	20+25	72				72.85 LT	25.55
7014	20+50					0	23.79
7015	20+50	2				25 RT	24.16
7016	20+50	5				50 RT	24.53
7017	20+50	72				72.50 RT	24.87
7018	20+50	2				25 LT	24.16
7019	20+50	5				50 LT	24.53
7020	20+50	72				72.85 LT	24.87
7021	20+61.58					0	24.29
7022	20+75					25 RT	24.64
7023	20+75	2				50 RT	24.99
7024	20+75	5				72.50 RT	25.30
7025	20+75	72				25 LT	24.18
7026	20+75	2				50 LT	24.07
7027	20+75	5				83.42 LT	23.92
7028	20+75	72				0	24.79
7029	21+00					25 RT	25.11
7030	21+00	2				50 RT	25.44
7031	21+00	5				72.50 RT	25.73
7032	21+00	72				25 LT	25.11
7033	21+00	2				50 LT	25.43
7034	21+00	5				72.85 LT	25.73
7035	21+00	72.85 LT	25.52	7078	22+50	0	25.33
7036	21+25	0	25.10	7079	22+77.32	25 RT	25.66
7037	21+25	25 RT	24.78	7080	22+77.32	50 RT	25.98
7038	21+25	50 RT	24.45	7081	22+77.32	72.50 RT	26.27
7039	21+25	72.50 RT	24.15	7082	22+77.32	25 LT	25.65
7040	21+25	25 LT	24.78	7083	22+77.32	46.99 LT	25.66
7041	21+25	50 LT	24.45	7084	22+63.21	50 LT	25.98
7042	21+25	72.85 LT	24.15	7085	22+77.32	72.85 LT	26.27
				7086	22+77.32		

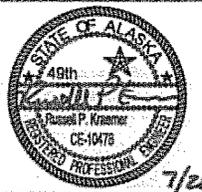
B LINE centerline - Parking Lot

Station	Offset Lt	cross slope	83.42	72.85	50	25	0	25	50	72.5	Offset rt	cross-slope
20+00.00	0	0	Match	25.61	25.61	25.61	25.61	25.61	25.61	25.61	match	0
20+25.00	0.0129	0.0129		25.80	25.51	25.18	24.86	25.06	25.25	25.43		0.0078
20+50.00	0.014	0.014		25.13	24.81	24.46	24.11	24.47	24.82	25.14		0.0142
20+61.58							23.76					
20+75.00	0.0139	0.0139		25.06	24.75	24.40	24.05	24.40	24.75	25.06		0.0139
21+00.00	0.0129	0.0129		25.52	25.23	24.90	24.58	24.90	25.23	25.52		0.0129
21+25.00	0.001	0.001		25.17	25.15	25.13	25.10	25.13	25.15	25.17		0.001
21+50.00	0.001	0.001		25.36	25.34	25.32	25.29	25.32	25.34	25.36		0.001
21+75.00	0.0139	0.0139		25.55	25.24	24.89	24.54	24.89	25.24	25.55		0.0139
22+00.00	0.0148	0.0148		24.87	24.53	24.16	23.79	24.16	24.54	24.87		0.0149
22+25.00	0.001	0.001	23.92	24.13	24.34	24.32	24.29	24.64	24.99	25.30		0.0139
22+50.00	0.0129	0.0129		25.73	25.44	25.11	24.79	25.11	25.44	25.73		0.0129
22+77.32	0.0129	0.0129		26.27	25.98	25.65	25.33	25.65	25.98	26.27		0.0129
23+00.00												

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115  
 PARKING LOT GRADING PLAN



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: B. BENNETT, R.L.G.

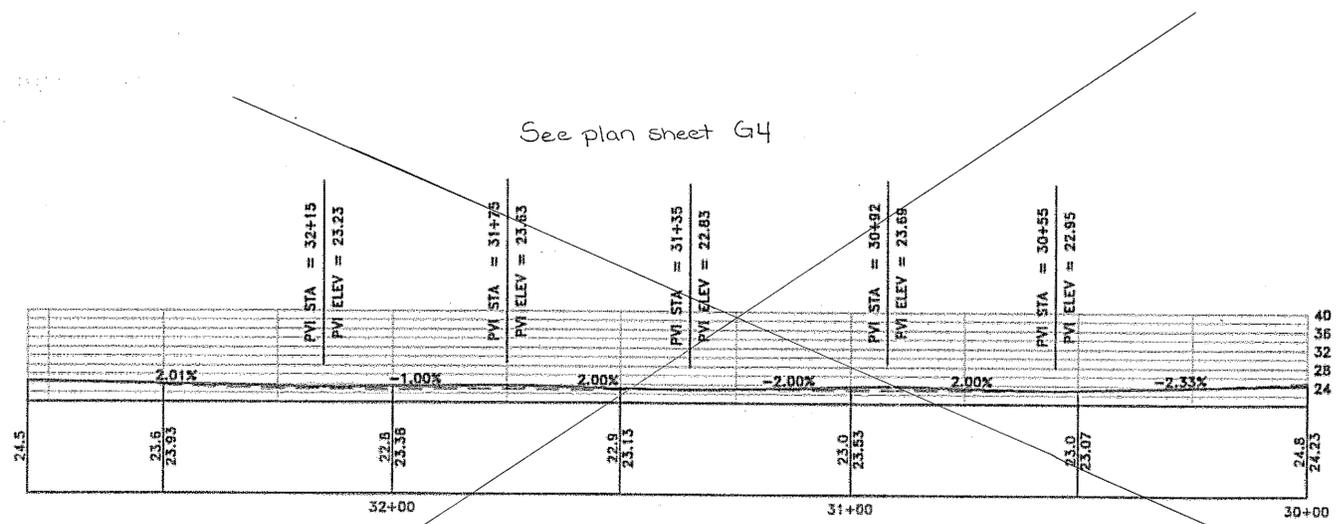
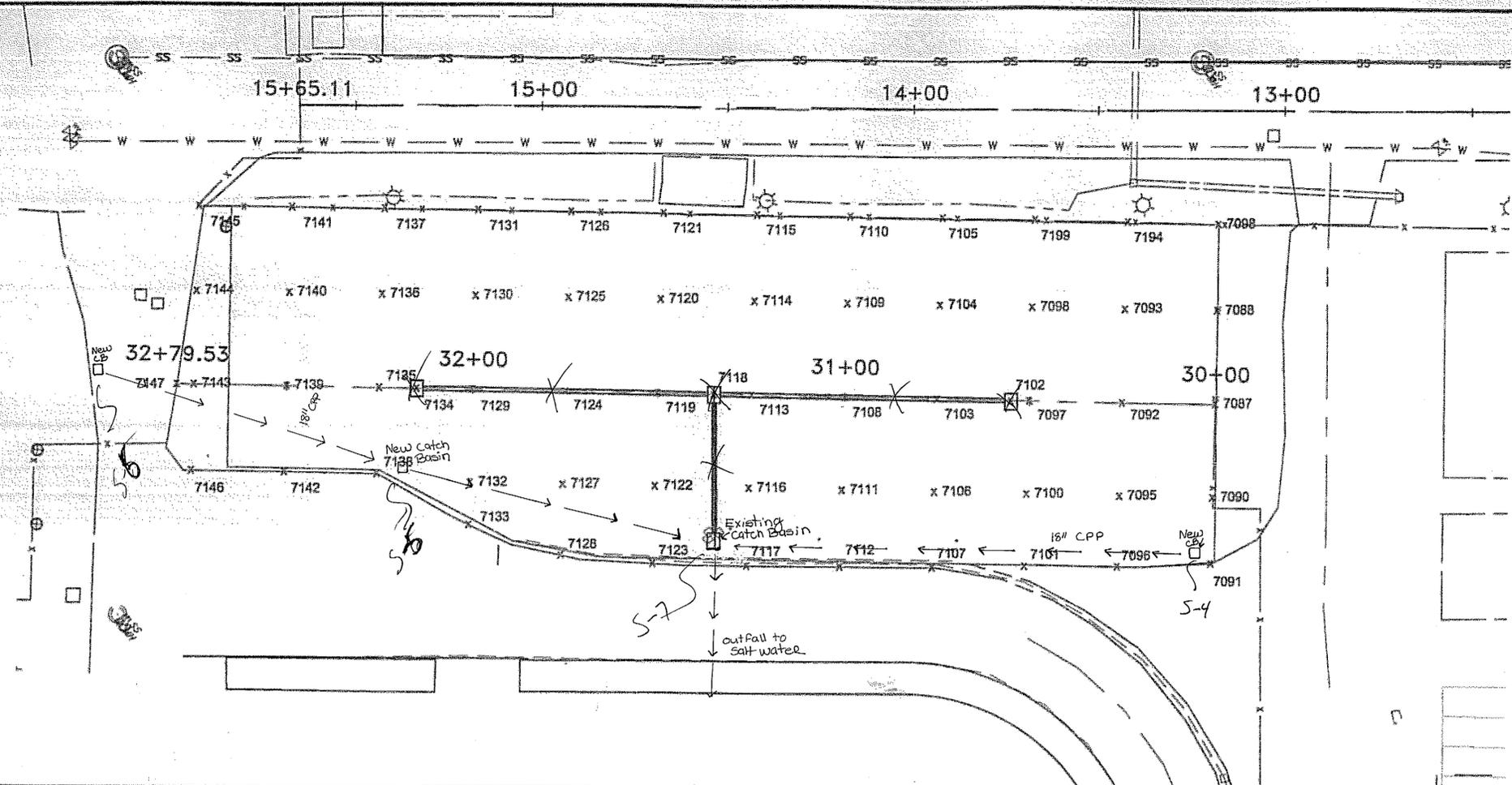
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
 SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT # 69115

PARKING LOT GRADING PLAN

PROJECT DESIGNATION  
 69115

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
G2	25



**TEMPORARY OFFICE AREA GRADING PLAN & PROFILE**

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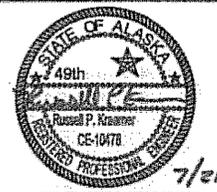
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 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115  
 TEMPORARY OFFICE AREA  
 GRADING PLAN & PROFILE



CHECKED BY: R. KRAEMER



DESIGNED BY: C. VANISZEK

DRAWN BY: B. BENNETT, R.L.O.

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
 SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT # 69115

**TEMPORARY OFFICE AREA GRADING PLAN & PROFILE**

PROJECT DESIGNATION  
**69115**

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
G3	25

7/29-9-28-09

POINT #	STATION	OFFSET	TOP OF BASE	POINT #	STATION	OFFSET	TOP OF BASE
7087							22.83
7088							23.13
7089							23.60
7090							24.04
7091							23.81
7092							24.37
7093							23.63
7094							24.04
7095							24.41
7096							24.06
7097							24.39
7098							23.38
7099							23.89
7100							24.55
7101							24.15
7102							24.51
7103							23.23
7104							23.43
7105							23.93
7106							24.38
7107							24.54
7108							23.94
7109							24.31
7110							24.65
7111							24.68
7112							24.44
7113							24.76
7114	31+25	25 RT	23.54	7145	32+75	47.59 RT	25.05
7115	31+25	48.82 RT	24.00	7146	32+75	23.02 LT	24.78
7116	31+25	25 LT	23.71	7147	32+79.53	0	24.53

**TEMPORARY OFFICE AREA GRADING TABLE**

Temporary Office grades and drainage

C LINE centerline

Offset Lt	Station	cross slope	match AC	24.48	24.60	24.80	25.00	25.20	match AC	0.80%	Offset rt
50	30+00.00	-0.80%	match AC	24.48	24.60	24.80	25.00	25.20	match AC	0.80%	cross-slope
40	30+25.00	-0.80%	match AC	24.23	24.35	24.55	24.75	24.95	match AC	0.80%	
38	30+50.00	-0.80%	match AC	23.98	24.10	24.30	24.50	24.70	match AC	0.80%	
30	30+55.00	-0.80%	match AC	23.93	24.25	24.25	24.43	24.43	match AC	0.80%	
25	30+75.00	-0.80%	match AC	23.83	23.95	24.15	24.35	24.55	match AC	0.80%	
20	30+92.00	-0.80%	match AC	23.75	23.87	24.07	24.27	24.47	match AC	0.80%	
0	31+00.00	-0.80%	match AC	23.71	23.83	24.03	24.23	24.43	match AC	0.80%	
25	31+25.00	-0.80%	match AC	23.58	23.70	23.90	24.10	24.30	match AC	0.80%	
50	31+35.00	-0.80%	match AC	23.53	23.65	23.85	24.05	24.25	match AC	0.80%	
63.5	31+50.00	-0.40%	match AC	23.77	23.83	23.93	24.03	24.13	match AC	0.40%	
	31+75.00	-0.40%	match AC	23.90	23.95	24.05	24.15	24.25	match AC	0.40%	
	32+00.00	-0.40%	match AC	24.06	24.08	24.18	24.28	24.38	match AC	0.40%	
	32+15.00	-0.40%	match AC	24.15	24.15	24.25	24.35	24.45	match AC	0.40%	
	32+25.00	-0.40%	match AC	24.22	24.22	24.30	24.40	24.50	match AC	0.40%	
	32+50.00	-0.30%	match AC	24.37	24.43	24.50	24.58	24.58	match AC	0.30%	
	32+75.00	-0.10%	match AC	24.53	24.55	24.58	24.60	24.60	match AC	0.10%	
	32+79.53	0.00%	match AC	24.57	24.57	24.57	24.57	24.57	match AC	0.00%	

Type A inlets.

station	offset	grate elevation
S-4	30+55.00	40 23.91
S-5	32+15.00	25 24.20
S-6	field locate	15 0.1' below existing grade
S-7	31+35.00	40 23.51

pipes

pipe No.	begin struc	invert el	end struc	invert el	diameter(in)
P-5	S-4	20.90	S-7	18.80	18
P-6	S-5	21.20	S-7	18.80	18
P-7	S-6	22.20	S-5	21.20	12

note: S-7 outflows into the existin 24 inch culvert inver el 18.7 inlet must be installed with a minimum 2' sump below outflow invert.

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

TEMPORARY OFFICE AREA  
GRADING TABLE



CHECKED BY: R. KRAEMER



DESIGNED BY: C. MANISZEK  
DRAWN BY: B. BENNETT, R.L.G.

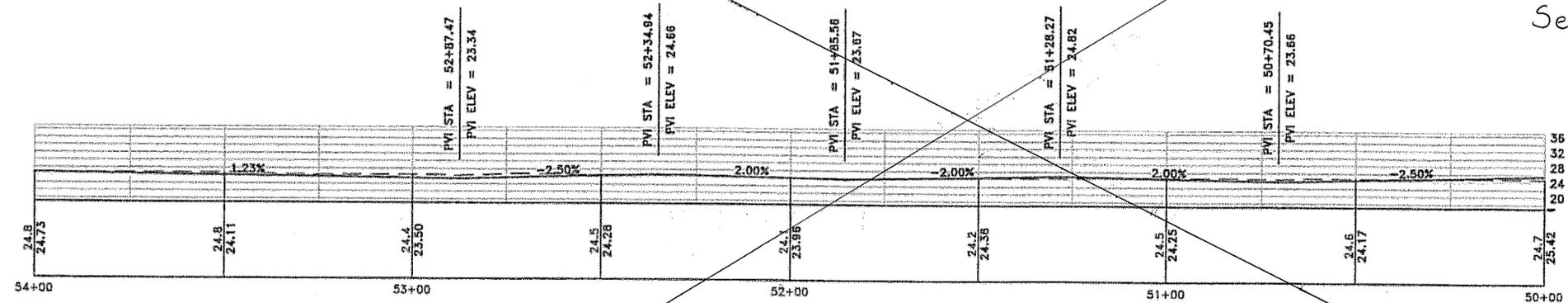
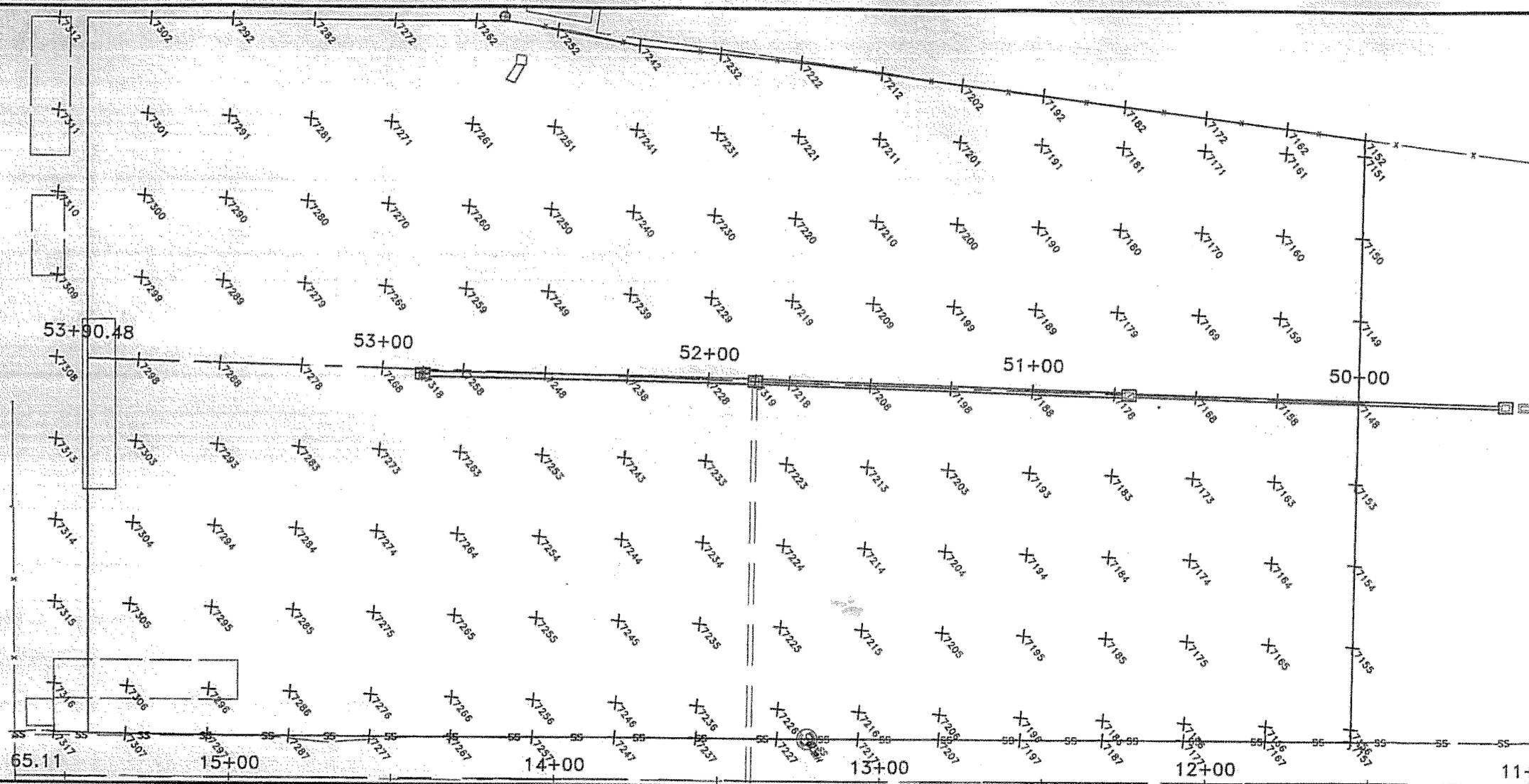
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
SHIPYARD PARKING LOT  
& LAYDOWN AREA  
PROJECT # 69115  
**TEMPORARY  
OFFICE AREA  
GRADING TABLE**

PROJECT DESIGNATION

69115

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G4	25

*Handwritten note:* 7/29/06



See Grade sheet pg. G6

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

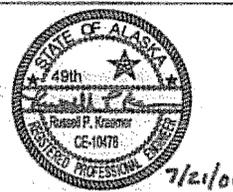
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT NO. 69115

FUTURE CONCRETE PAD AREA  
GRADING PLAN & PROFILE



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK  
DRAWN BY: B. BENNETT, R.L.C.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

FUTURE CONCRETE PAD AREA GRADING PLAN & PROFILE

PROJECT DESIGNATION  
69115

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G5	25

FUTURE CONCRETE PAD AREA GRADING PLAN & PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

9-28-09

**FUTURE CONCRETE PAD AREA GRADING TABLE**

POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION	POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION	POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION
7148	50+00	0	25.42	7218	51+75	0	23.88	7288	53+50	0	24.11
7149	50+00	25 RT	25.64	7219	51+75	25 RT	24.24	7289	53+50	25 RT	24.49
7150	50+00	50 RT	25.85	7220	51+75	50 RT	24.60	7290	53+50	50 RT	24.86
7151	50+00	75 RT	26.07	7221	51+75	75 RT	24.96	7291	53+50	75 RT	25.24
7152	50+00	80 RT	26.11	7222	51+75	97.29 RT	25.28	7292	53+50	100 RT	25.61
7153	50+00	25 LT	25.45	7223	51+75	25 LT	24.27	7293	53+50	25 LT	24.26
7154	50+00	50 LT	25.48	7224	51+75	50 LT	24.65	7294	53+50	50 LT	24.41
7155	50+00	75 LT	25.51	7225	51+75	75 LT	25.03	7295	53+50	75 LT	24.57
7156	50+00	100 LT	25.54	7226	51+75	100 LT	25.42	7296	53+50	100 LT	24.72
7157	50+00	103.75 LT	25.54	7227	51+75	108.11 LT	25.56	7297	53+50	114.07 LT	24.80
7158	50+25	0	24.79	7228	52+00	0	23.98	7298	53+75	0	24.42
7159	50+25							7299	53+75	25 RT	24.80
7160	50+25							7300	53+75	50 RT	25.17
7161	50+25							7301	53+75	75 RT	25.55
7162	50+25							7302	53+75	100 RT	25.92
7163	50+25							7303	53+75	25 LT	24.50
7164	50+25							7304	53+75	50 LT	24.58
7165	50+25							7305	53+75	75 LT	24.66
7166	50+25							7306	53+75	100 LT	24.74
7167	50+25							7307	53+75	114.56 LT	24.79
7168	50+25							7308	54+00	0	24.73
7169	50+50							7309	54+00	25 RT	25.10
7170	50+50							7310	54+00	50 RT	25.48
7171	50+50							7311	54+00	75 RT	24.85
7172	50+50							7312	54+00	100 RT	26.23
7173	50+50							7313	54+00	25 LT	24.73
7174	50+50							7314	54+00	50 LT	24.72
7175	50+50							7315	54+00	75 LT	24.72
7176	50+50							7316	54+00	100 LT	24.71
7177	50+50							7317	54+00	114.73 LT	24.71
7178	50+75										
7179	50+75										
7180	50+75										
7181	50+75										
7182	50+75										
7183	50+75										
7184	50+75										
7185	50+75										
7186	50+75										
7187	50+75										
7188	51+00										
7189	51+00										
7190	51+00	50 RT	24.82	7260	52+75	50 RT	24.40				
7191	51+00	75 RT	25.11	7261	52+75	75 RT	24.76				
7192	51+00	89.90 RT	25.28	7262	52+75	100 RT	25.15				
7193	51+00	25 LT	24.58	7263	52+75	25 LT	23.98				
7194	51+00	50 LT	24.91	7264	52+75	50 LT	24.30				
7195	51+00	75 LT	25.25	7265	52+75	75 LT	24.61				
7196	51+00	100 LT	25.58	7266	52+75	100 LT	24.93				
7197	51+00	108.83 LT	25.87	7267	52+75	112.14 LT	25.09				
7198	51+25	0	24.75	7268	53+00	0	23.50				
7199	51+25	25 RT	25.00	7269	53+00	25 RT	23.87				
7200	51+25	50 RT	25.25	7270	53+00	50 RT	24.25				
7201	51+25	75 RT	25.50	7271	53+00	75 RT	24.62				
7202	51+25	92.39 RT	25.67	7272	53+00	100 RT	25.00				
7203	51+25	25 LT	24.96	7273	53+00	25 LT	23.84				
7204	51+25	50 LT	25.17	7274	53+00	50 LT	24.19				
7205	51+25	75 LT	25.38	7275	53+00	75 LT	24.53				
7206	51+25	100 LT	25.58	7276	53+00	100 LT	24.87				
7207	51+25	107.59 LT	25.65	7277	53+00	112.85	25.05				
7208	51+50	0	24.38	7278	53+25	0	23.81				
7209	51+50	25 RT	24.70	7279	53+25	25 RT	24.18				
7210	51+50	50 RT	25.03	7280	53+25	50 RT	24.56				
7211	51+50	75 RT	25.35	7281	53+25	75 RT	24.93				
7212	51+50	94.88 RT	25.61	7282	53+25	100 RT	25.31				
7213	51+50	25 LT	24.67	7283	53+25	25 LT	24.05				
7214	51+50	50 LT	24.98	7284	53+25	50 LT	24.29				
7215	51+50	75 LT	25.25	7285	53+25	75 LT	24.53				
7216	51+50	100 LT	25.54	7286	53+25	100 LT	24.77				
7217	51+50	108.35 LT	25.64	7287	53+25	113.61 LT	24.90				

Future Concrete Pad area grading plan.  
Top of base course grades

Note: typical change on Base Course  
New Typical is 3" of Base Course

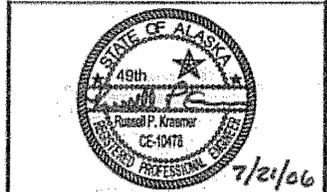
sta	cross slope	Last point		offsets								Last point		cross slope
		Elevation	Distance	100	75	left 50	25	0	25	right 50	75	distance	elevation	
50+00.00	0.255%	25.54	103.75	25.54	25.47	25.41	25.34	25.28	25.54	25.81	26.07	80.00	26.12	1.05%
50+25.00	0.790%	25.60	103.75	25.57	25.37	25.18	24.98	24.78	25.05	25.31	25.58	82.44	25.65	1.06%
50+50.00	1.350%	25.70	105.32	25.63	25.29	24.96	24.62	24.28	24.58	24.89	25.19	84.93	25.31	1.21%
50+75.00	1.900%	25.53	108.08	25.44	25.08	24.69	24.31	23.94	24.58	24.89	25.11	87.41	25.05	1.27%
51+00.00	1.270%	25.67	108.83	25.58	25.27	24.95	24.63	24.31	24.58	24.84	25.11	89.90	25.27	1.08%
51+25.00	0.900%	25.68	107.59	25.50	25.36	25.14	24.91	24.69	24.96	25.23	25.50	92.39	25.69	1.08%
51+50.00	1.180%	25.64	108.35	25.54	25.25	24.98	24.67	24.38	24.70	25.03	25.35	94.88	25.61	1.29%
51+75.00	1.450%	25.55	109.11	25.42	25.08	24.70	24.33	23.97	24.30	24.63	24.96	97.29	25.26	1.32%
52+00.00	1.310%	25.51	109.87	25.38	25.06	24.73	24.40	24.07	24.39	24.71	25.03	99.05	25.34	1.28%
52+25.00	0.740%	25.37	110.63	25.29	25.10	24.92	24.73	24.55	24.90	25.25	25.61	100.00	25.96	1.41%
52+50.00	0.640%	25.21	111.38	25.14	24.98	24.82	24.66	24.50	24.82	25.14	25.46	100.00	25.78	1.28%
52+75.00	0.830%	25.03	112.14	24.93	24.72	24.51	24.30	24.10	24.36	24.62	24.88	100.00	25.15	1.05%
53+00.00	0.880%	24.99	112.85	24.87	24.65	24.43	24.21	23.99	24.22	24.44	24.67	100.00	24.89	0.90%
53+25.00	0.580%	24.85	113.51	24.77	24.63	24.48	24.34	24.19	24.27	24.34	24.42	100.00	24.49	0.30%
53+50.00	0.330%	24.77	114.07	24.72	24.64	24.56	24.47	24.39	24.42	24.44	24.47	100.00	24.49	0.10%
53+75.00	0.150%	24.76	114.56	24.74	24.70	24.67	24.63	24.59	24.62	24.64	24.67	100.00	24.69	0.10%
54+00.00	0.010%	24.75	114.73	24.75	24.75	24.75	24.74	24.74	24.74	24.74	24.74	100.00	24.74	0.00%

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 RECORD OF REVISIONS  
 No. DATE DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115  
 FUTURE CONCRETE  
 PAD AREA GRADING PLAN



CHECKED BY: R. KRAEMER



DESIGNED BY: C. VANISZEK

DRAWN BY: B. BENNETT, R.L.O.

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION  
 SHIPYARD PARKING LOT  
 & LAYDOWN AREA  
 PROJECT # 69115  
**FUTURE CONCRETE  
 PAD AREA  
 GRADING PLAN**

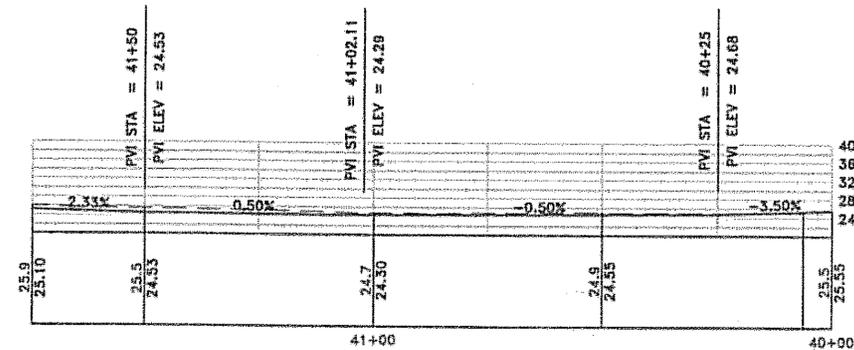
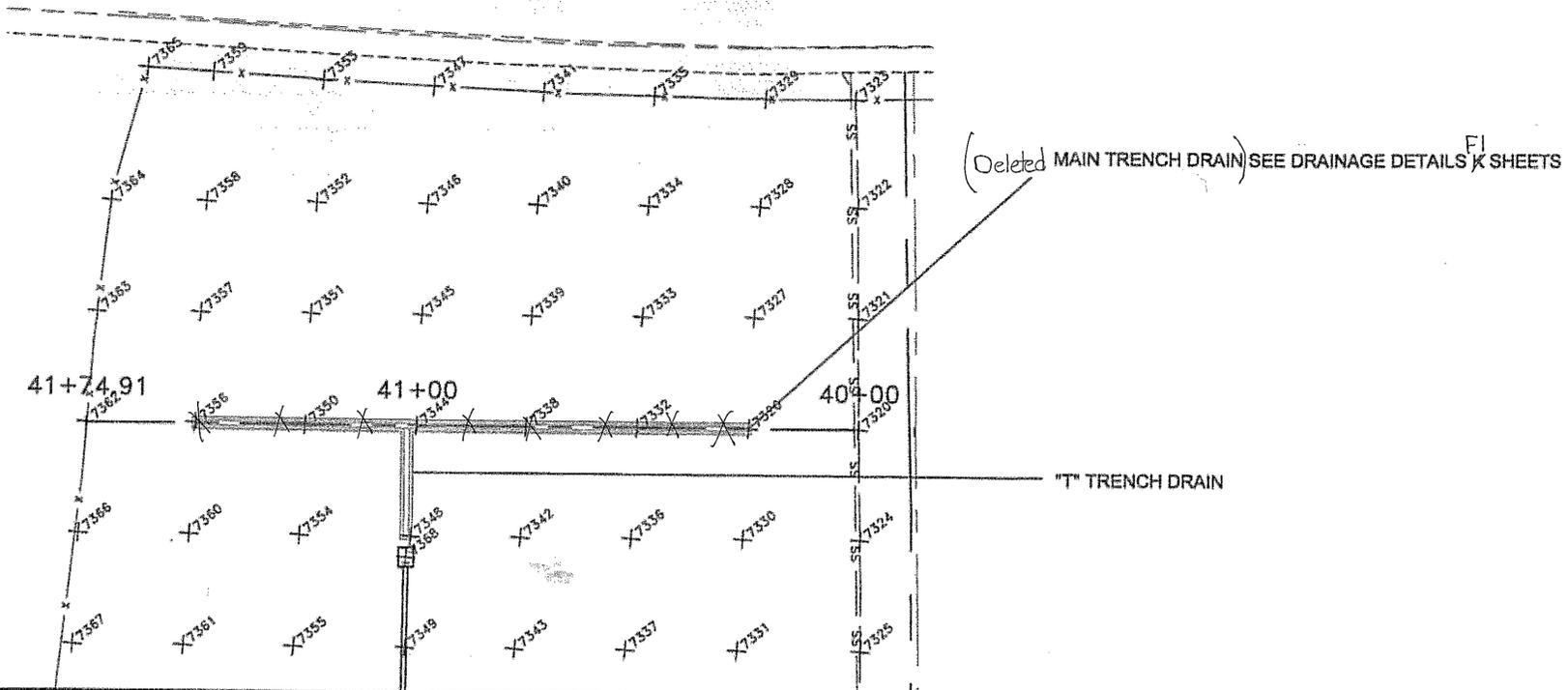
PROJECT DESIGNATION  
**69115**

STATE	YEAR
<b>ALASKA</b>	<b>2006</b>

SHEET NUMBER	TOTAL SHEETS
<b>G6</b>	<b>25</b>

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

# TONGASS AVENUE



NOTE:  
 PROFILE GRADE SHOWN IS FOR  
 THE TOP OF GRATE, CENTER LINE OF  
 TRENCH DRAIN. SEE K SHEETS FOR  
 BOTTOM OF TRENCH GRADES.

## "LAYDOWN" AREA GRADING PLAN & PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: C:\DOCUMENTS AND SETTINGS\CAIVANISZEK\DESKTOP\G1-G8 GRADING.DWG  
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ADDENDUM NUMBER  
 ATTACHMENT NUMBER

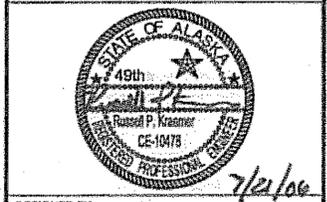
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115

"LAYDOWN" AREA GRADING  
 PLAN & PROFILE



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK  
 DRAWN BY: B. BENNETT, P.L.L.C.

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION  
 SHIPYARD PARKING LOT  
 & LAYDOWN AREA  
 PROJECT # 69115  
**"LAYDOWN" AREA  
 GRADING  
 PLAN & PROFILE**

PROJECT DESIGNATION  
**69115**

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G7	25

*Handwritten note:* 3/6-9-2009

No.	DATE	DESCRIPTION

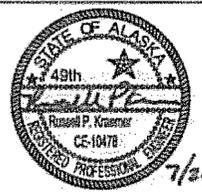
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

"LAYDOWN" AREA  
GRADING PLAN

"LAYDOWN" AREA GRADING POINTS							
POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION	POINT #	STATION	OFFSET	TOP OF BASE COURSE ELEVATION
7320	40+00	0	25.30	7344	41+00	0	24.05
7321	40+00	25 RT	25.40	7345	41+00	25 RT	24.42
7322	40+00	50 RT	25.50	7346	41+00	50 RT	24.80
7323	40+00	74.17 RT	25.60	7347	41+00	76.52 RT	25.20
7324	40+00	25 LT	25.31	7348	41+00	25 LT	24.42
7325	40+00	50 LT	25.33	7349	41+00	50 LT	24.80
7326	40+25	0	24.42	7349a	41+02.11	0	24.04
7327	40+25	25 RT	24.80	7350	41+25	0	24.15
7328	40+25	50 RT	25.17	7351	41+25	25 RT	24.53
7329	40+25	74.24 RT	25.54	7352	41+25	50 RT	24.90
7330	40+25	25 LT	24.80	7353	41+25	77.76 RT	25.32
7331	40+25	50 LT	25.17	7354	41+25	25 LT	24.53
7332	40+50	0	24.30	7355	41+25	50 LT	24.90
7333	40+50	25 RT	24.67	7356	41+50	0	24.28
7334	40+50	50 RT	25.05	7357	41+50	25 RT	24.65
7335	40+50	74.70 RT	25.42	7358	41+50	50 RT	25.03
7336	40+50	25 LT	24.67	7359	41+50	79.15 RT	25.47
7337	40+50	50 LT	25.05	7360	41+50	25 LT	24.65
7338	40+75	0	24.17	7361	41+50	50 LT	25.03
7339	40+75	25 RT	24.55	7362	41+74.49	0	24.85
7340	40+75	50 RT	24.92	7363	41+72.32	25 RT	25.17
7341	40+75	75.44 RT	25.31	7364	41+89.43	50 RT	25.48
7342	40+75	25 LT	24.55	7365	41+81.60	79.81 RT	25.75
7343	40+75	50 LT	24.92	7366	41+74.49	25 LT	24.99
				7367	41+74.50	50 LT	25.14
				7368	41+02.11	29.68 LT	24.48



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
SHIPYARD PARKING LOT  
& LAYDOWN AREA  
PROJECT # 69115

"LAYDOWN" AREA  
GRADING PLAN

PROJECT DESIGNATION  
69115

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
G8	25

No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

FENCING AND GATE DETAILS



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: D. BENNETT, R.L.G.

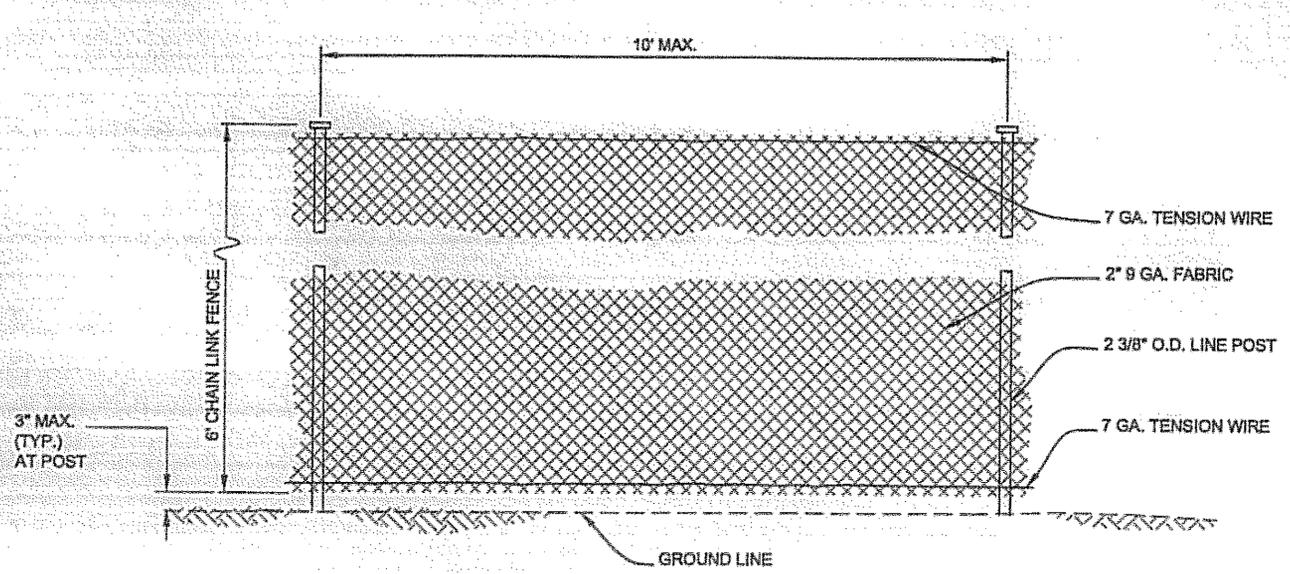
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
SHIPYARD PARKING LOT  
& LAYDOWN AREA  
PROJECT # 69115

**FENCING AND GATE DETAILS**

PROJECT DESIGNATION  
**69115**

STATE	YEAR
ALASKA	2006

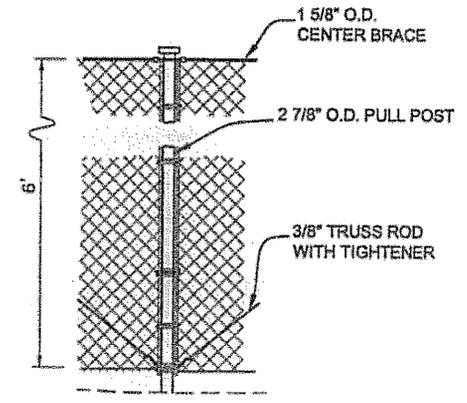
SHEET NUMBER	TOTAL SHEETS
J1	25



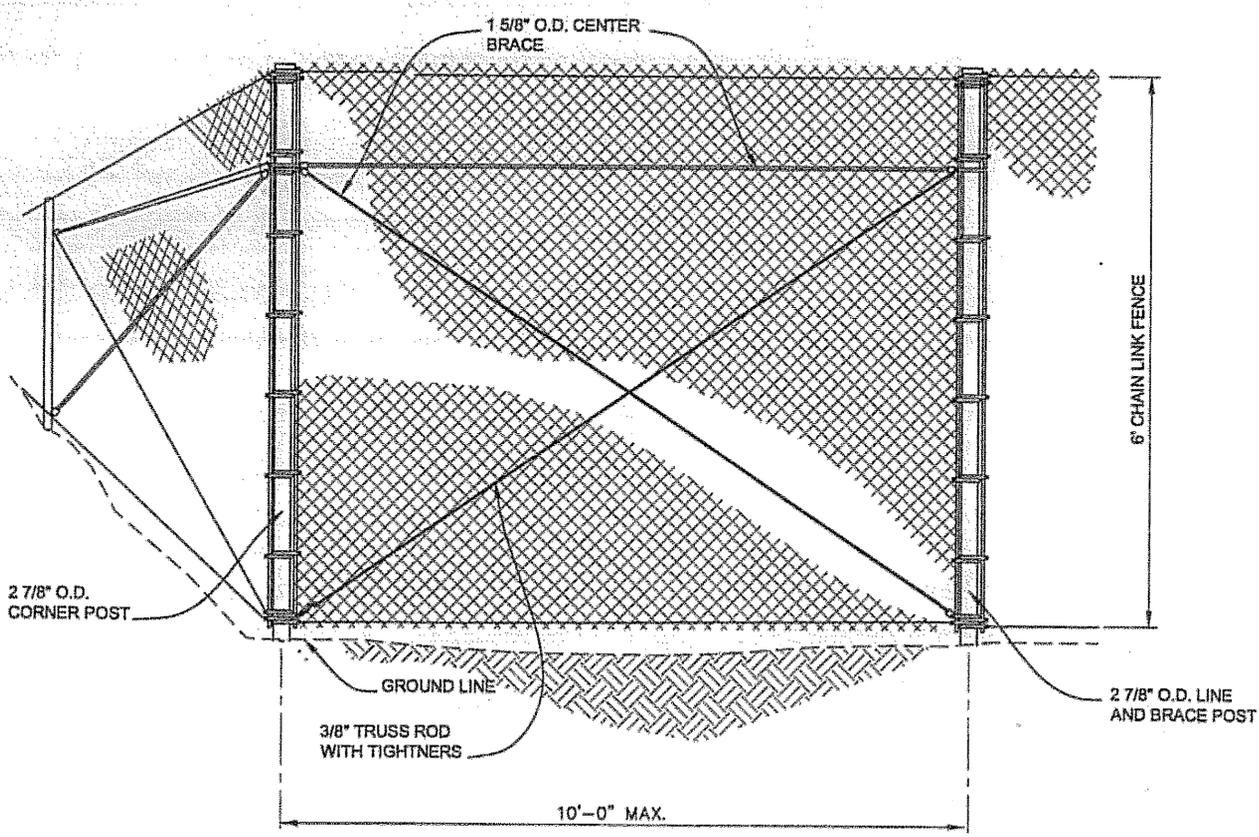
**TYPICAL FENCE ELEVATION**  
FOR POST EMBEDMENT SEE DETAIL, SHEET J3

**FENCING NOTES:**

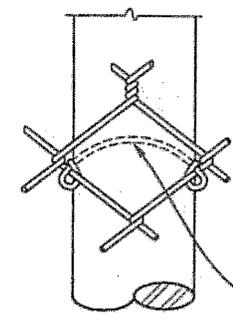
- FENCE FABRIC SHALL BE 9 GA. WIRE WOVEN IN A 2" MESH. FENCING SHALL BE 6' HIGH.
- NOT ALL OF CHAINLINK FENCE AND MISC. DENCING HARDWARE IS SHOWN. REFER TO DOT/PF STANDARD DETAILS No. F-01.01 FOR FURTHER DETAIL.



**TYPICAL PULL POST DETAIL**  
FOR POST EMBEDMENT SEE DETAIL, SHEET J3

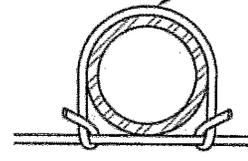


**TYPICAL CORNER TERMINAL**  
FOR POST EMBEDMENT SEE DETAIL, SHEET J3



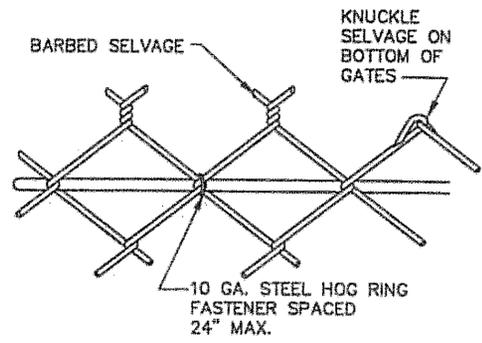
**ELEVATION**

10 GA. STEEL WIRE CLIPS  
SPACED 14" MAX.



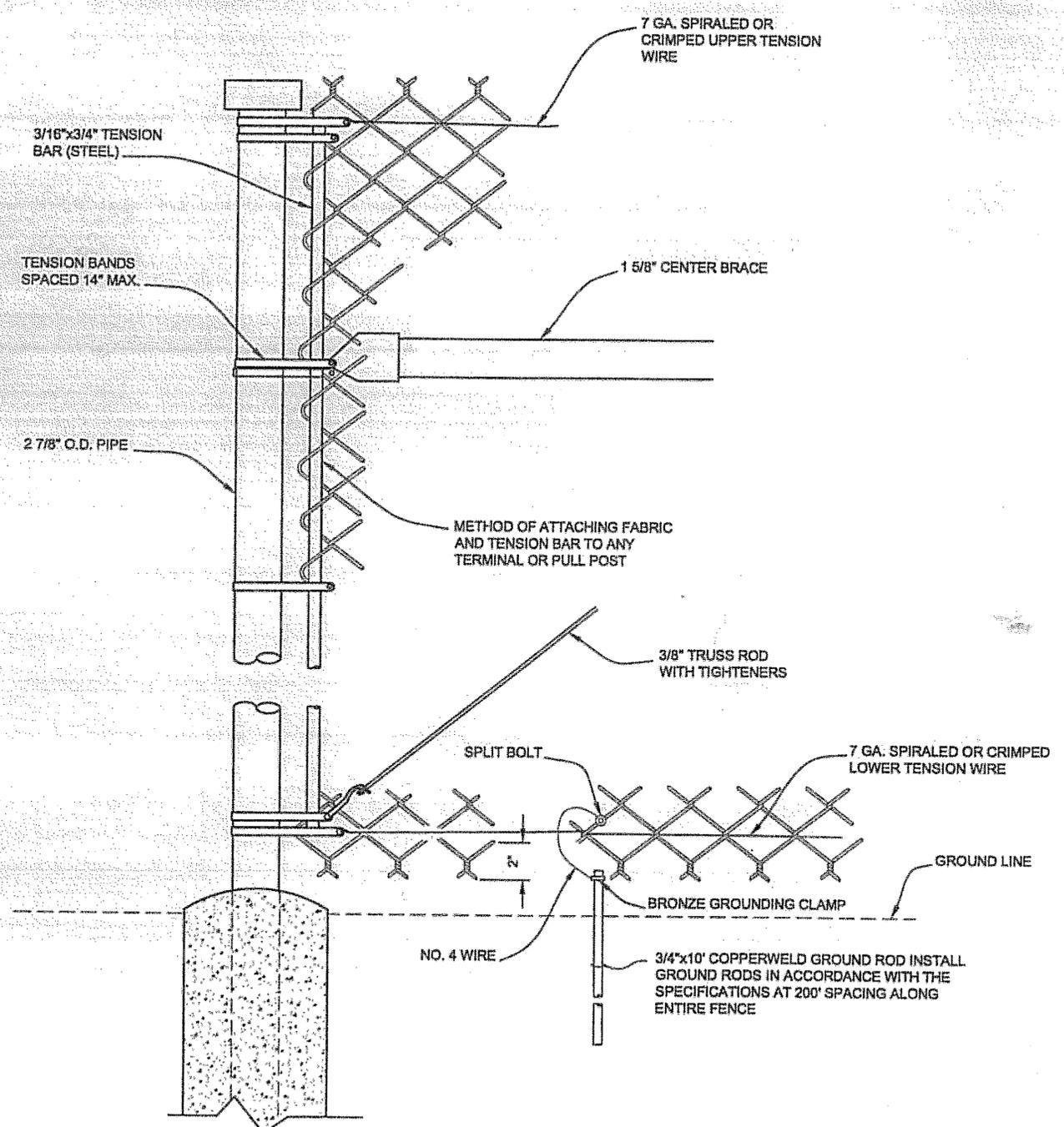
**PLAN VIEW**

**TYPICAL METHOD OF TYING FABRIC TO LINE POSTS**

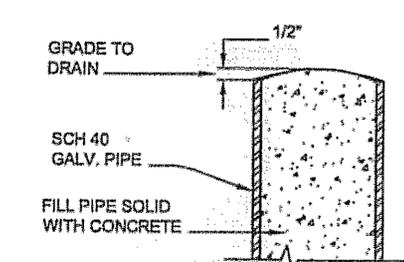


**TYPICAL METHOD OF TYING FABRIC TO TENSION WIRE**

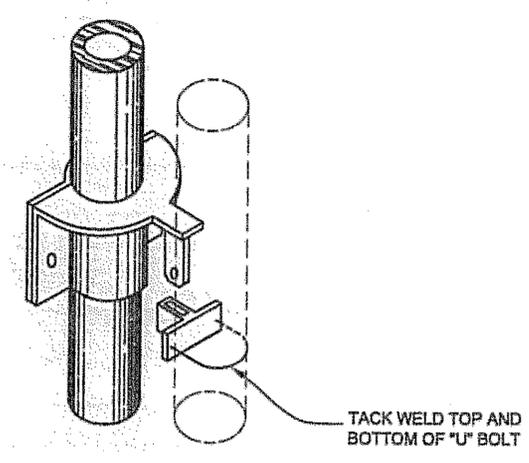
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



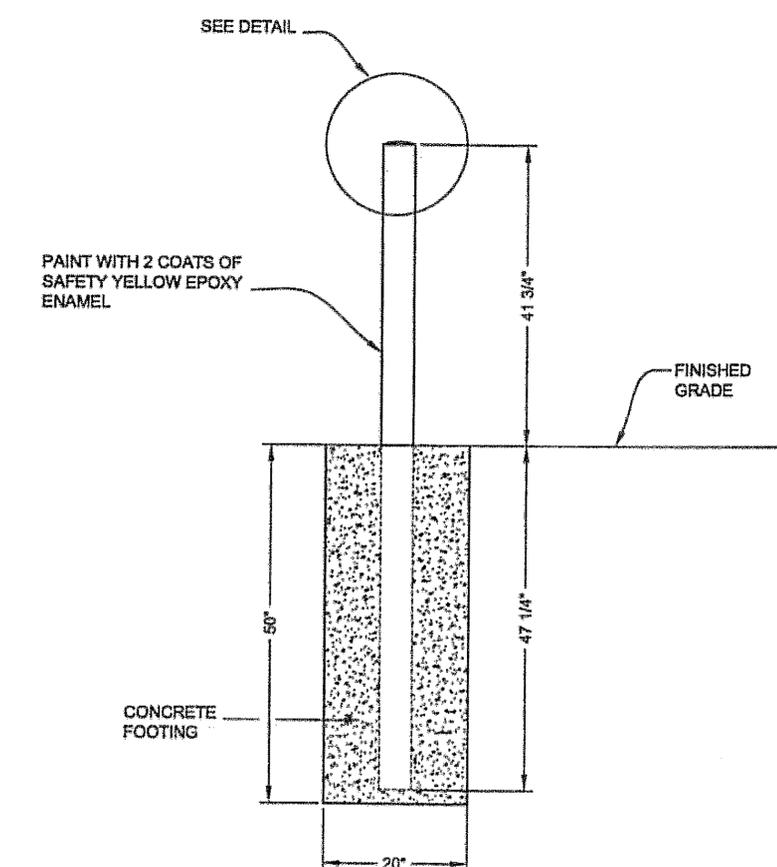
**TERMINAL POST DETAIL**  
FOR POST EMBEDMENT SEE DETAIL, SHEET J3



**BOLLARD POST DETAIL**



**ICE FREE LOCKING ASSEMBLY DETAIL**



**BOLLARD POST DETAIL**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\CTM\99260\PLANSET\J1-FENCE DETAILS.DWG

WMHICKOK  
TAB: J2 Friday, July 29, 2005 11:27:44 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

**FENCING AND GATE DETAILS**



CHECKED BY: R. KRAEMER

DESIGNED BY: C. IVANISZEK  
DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

**FENCING AND GATE DETAILS**

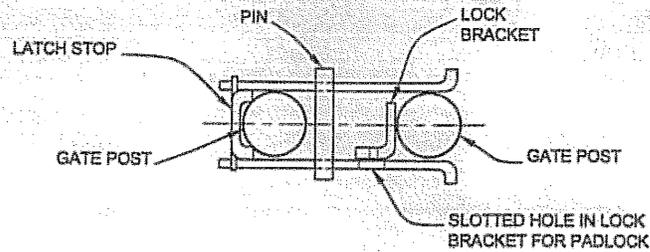
PROJECT DESIGNATION	
69115	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J2	25

TURN-BUCKLE EYE IS BOLTED TO TRIANGULAR PLATE THAT HAS BEEN DRILLED TO ACCEPT BOLT. (SAME FOR 12' GATE)

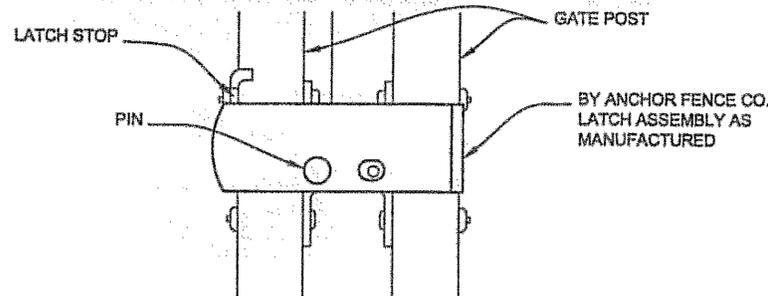
3/8" TRUSS ROD

**TRUSS ROD & TIGHTENER DETAIL**  
(TENSION EXISTING TURN-BUCKLE PER INSTALLER RECOMMENDATIONS)

**MALLEABLE BUTT HINGE**

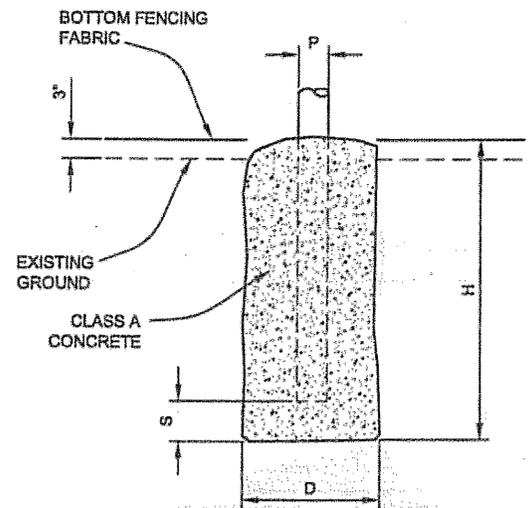


**TOP VIEW**



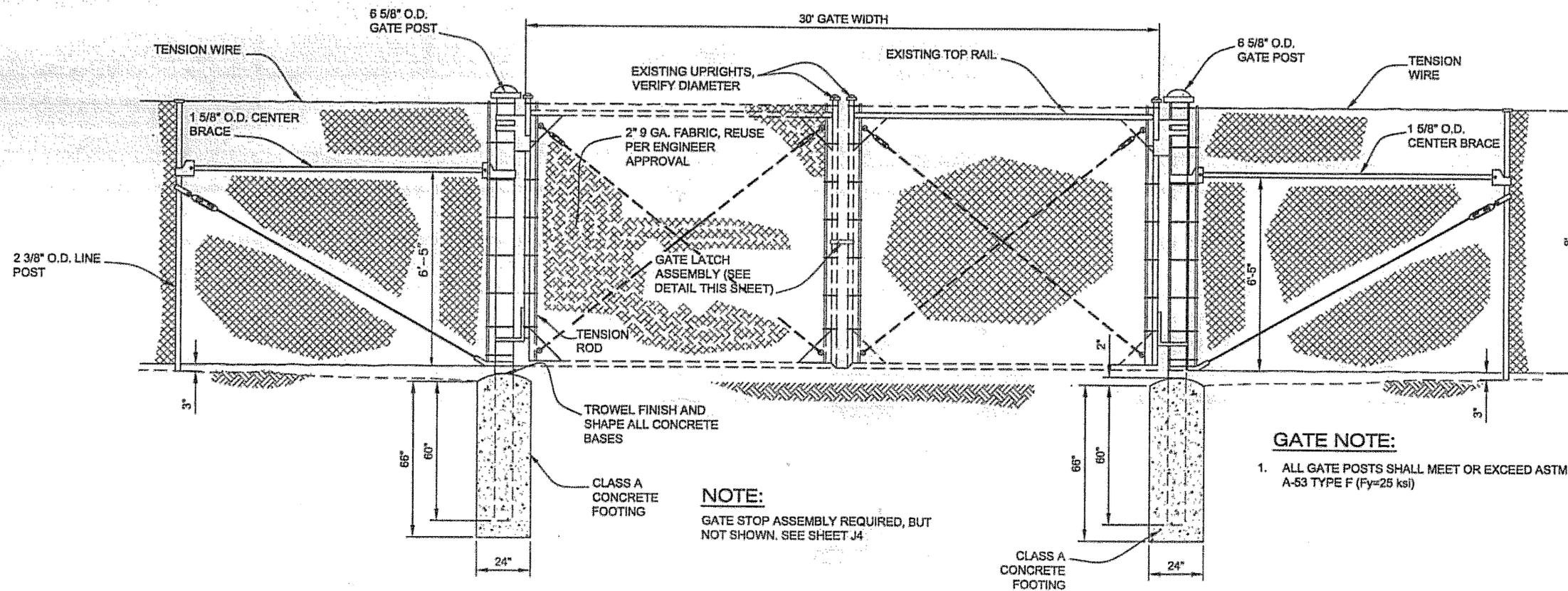
**SIDE VIEW**

**GATE LATCH ASSEMBLY**



**TYPICAL POST EMBEDMENT DETAIL**

POST INSTALLATION SUMMARY						
GATE POST	LINE POST	PULL CORNER BRACE POST & STREAM CROSSING POSTS	P	D	H	S
	X		2 3/8"	12"	38"	3"
		X	2 7/8"	20"	48"	3"
X			6 5/8"	24"	66"	6"



**DRIVE GATE - DOUBLE SWING DETAIL**

**GATE NOTE:**

1. ALL GATE POSTS SHALL MEET OR EXCEED ASTM A-53 TYPE F (Fy=25 ksi)

**NOTE:**

GATE STOP ASSEMBLY REQUIRED, BUT NOT SHOWN. SEE SHEET J4

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

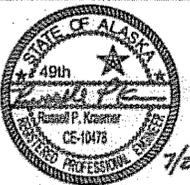
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

FENCING AND GATE DETAILS



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

**FENCING AND GATE DETAILS**

PROJECT DESIGNATION

69115

STATE YEAR

ALASKA 2006

SHEET NUMBER TOTAL SHEETS

J3 25

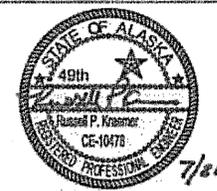
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

FENCING AND GATE DETAILS



CHECKED BY: R. KRAEMER



DESIGNED BY: C. MAHISZEK

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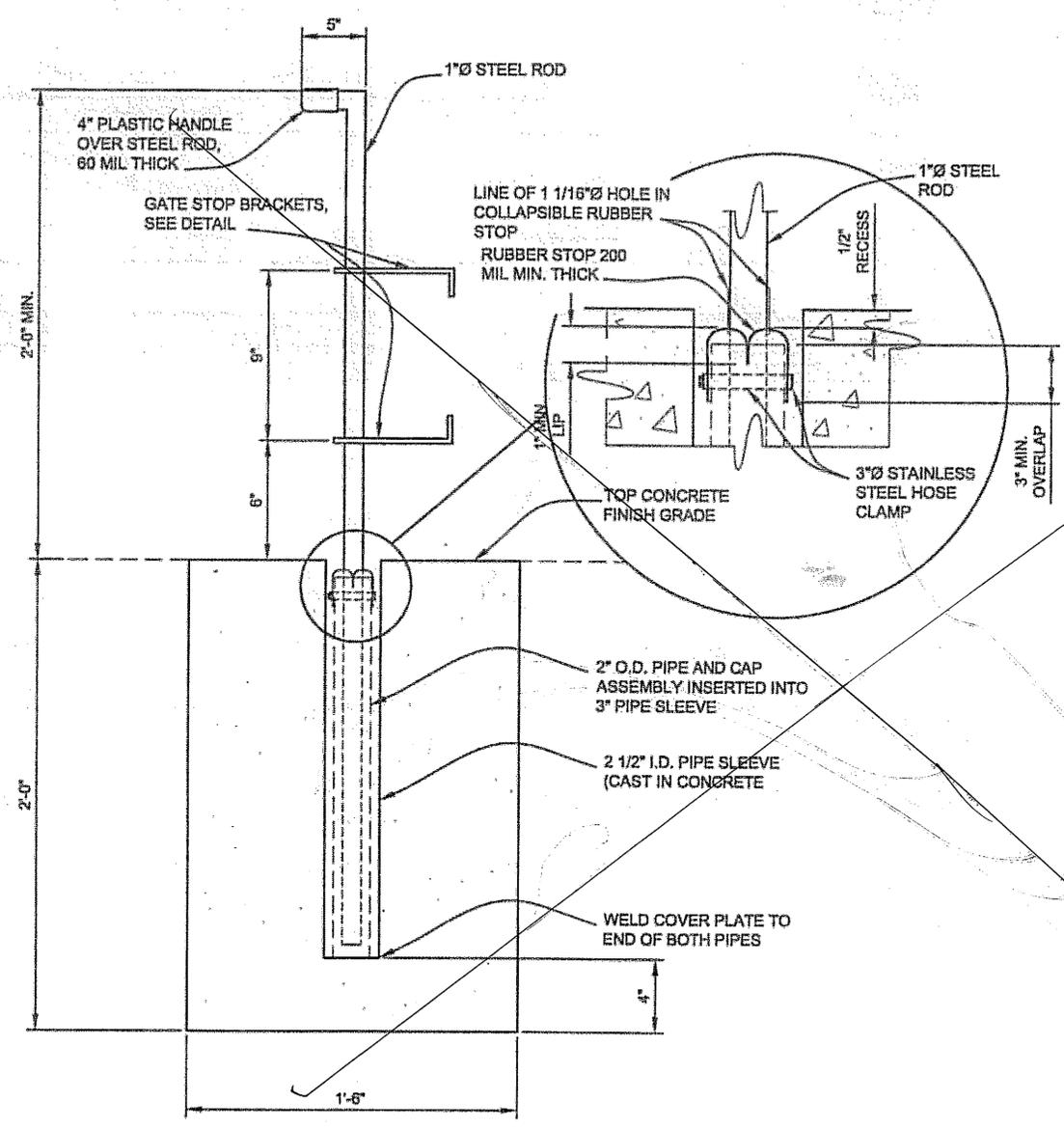
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
SHIPYARD PARKING LOT  
& LAYDOWN AREA  
PROJECT # 69115  
**FENCING AND  
GATE DETAILS**

PROJECT DESIGNATION

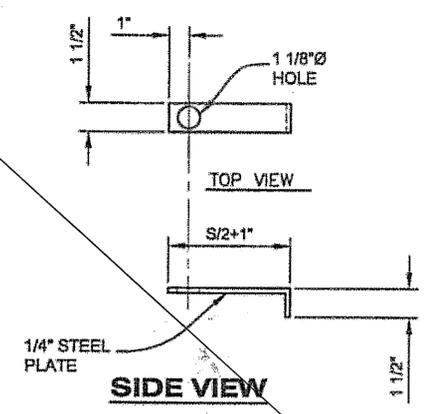
69115

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
J4	25



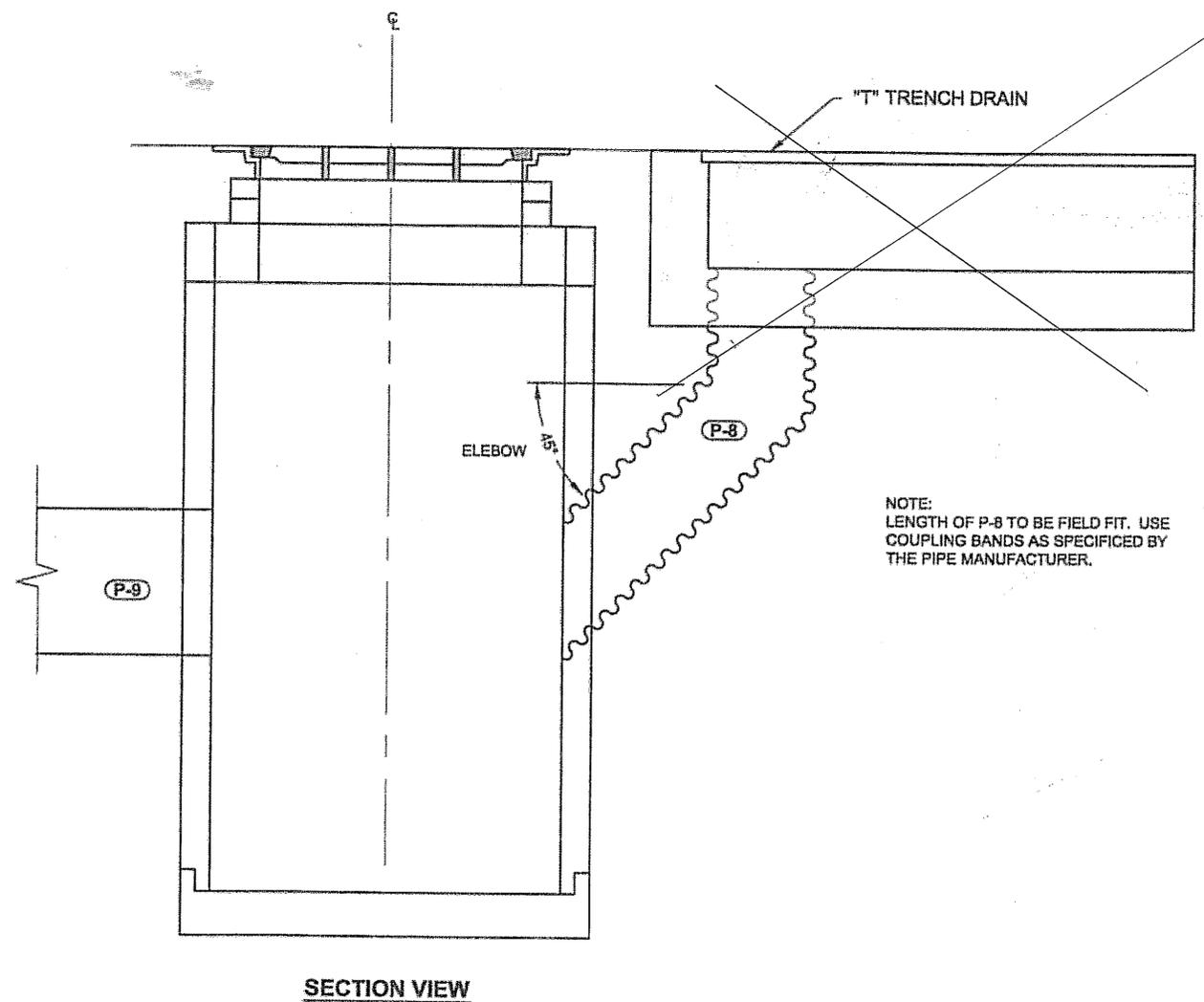
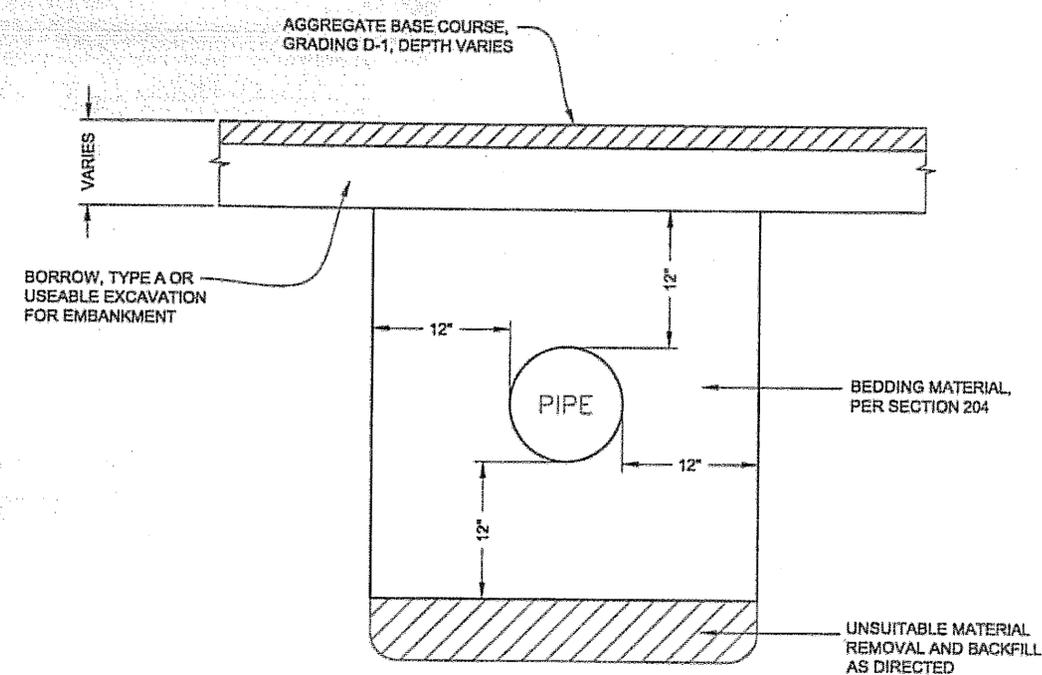
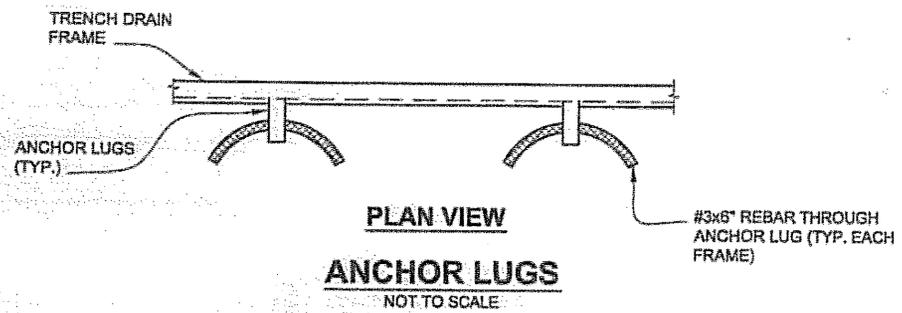
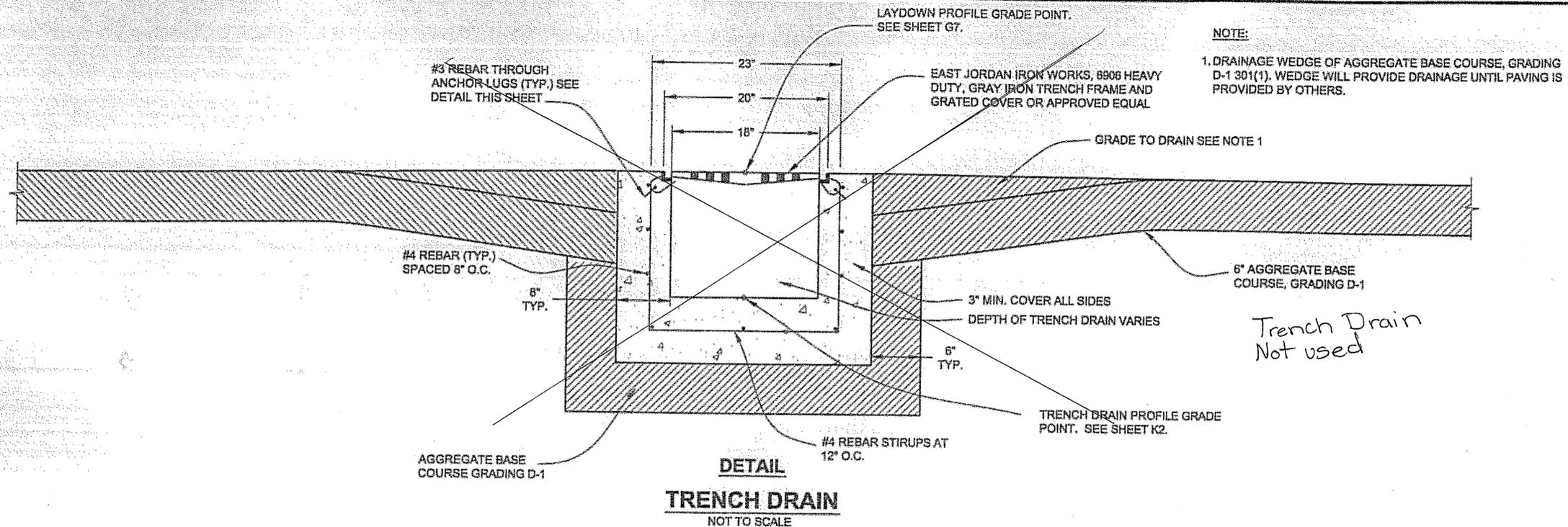
**GATE STOP DETAIL**



**GATE STOP BRACKET DETAIL**

Not used

*7/27-9-28-09*



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TAB: K1 Friday, July 29, 2005 11:27:44 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

DRAINAGE DETAILS



CHECKED BY: R. KRAEMER



DESIGNED BY: C. IVANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

**DRAINAGE DETAILS**

PROJECT DESIGNATION	
69115	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
K1	25

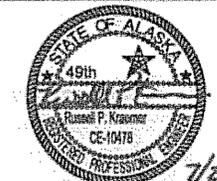
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115

DRAINAGE DETAILS



CHECKED BY: R. KRAEMER



DESIGNED BY: C. VANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
 SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT # 69115

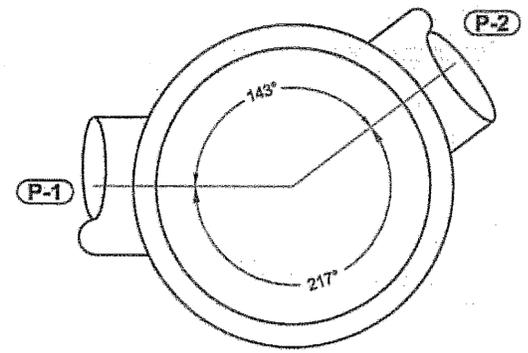
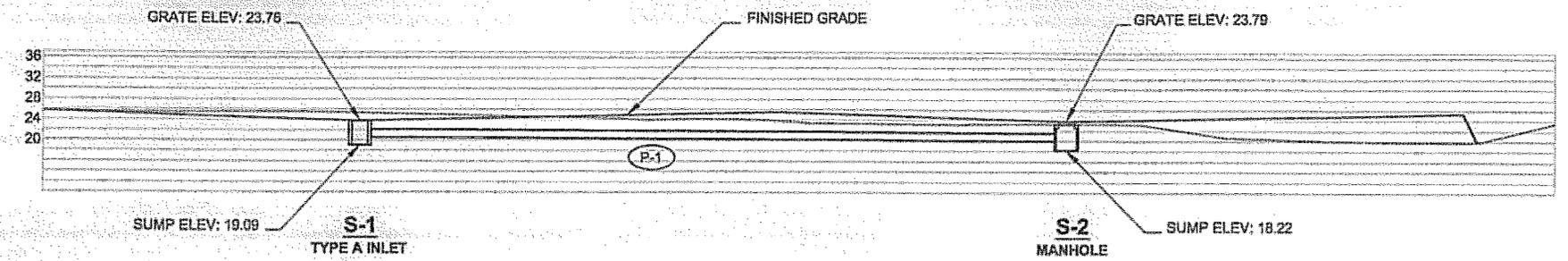
DRAINAGE DETAILS

PROJECT DESIGNATION

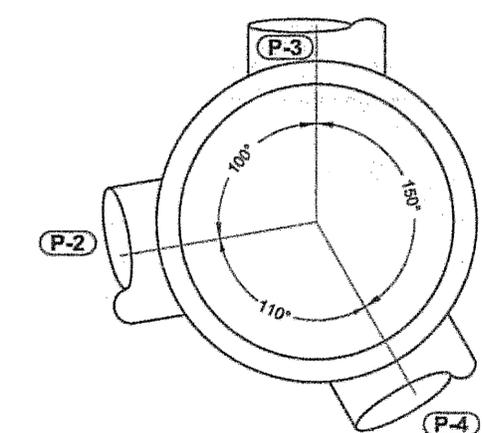
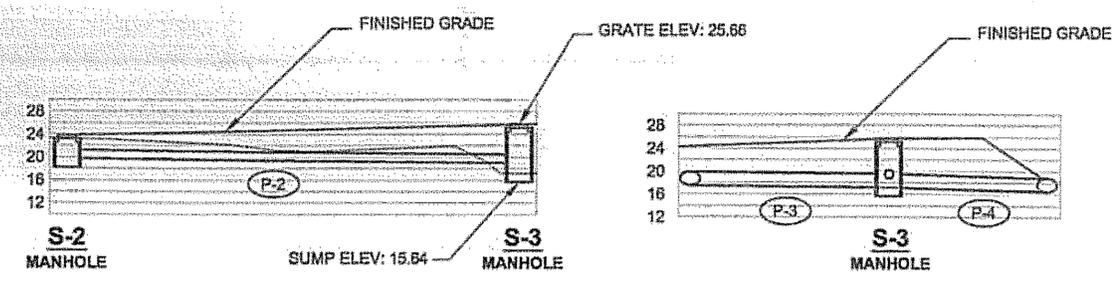
69115

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
K2	25

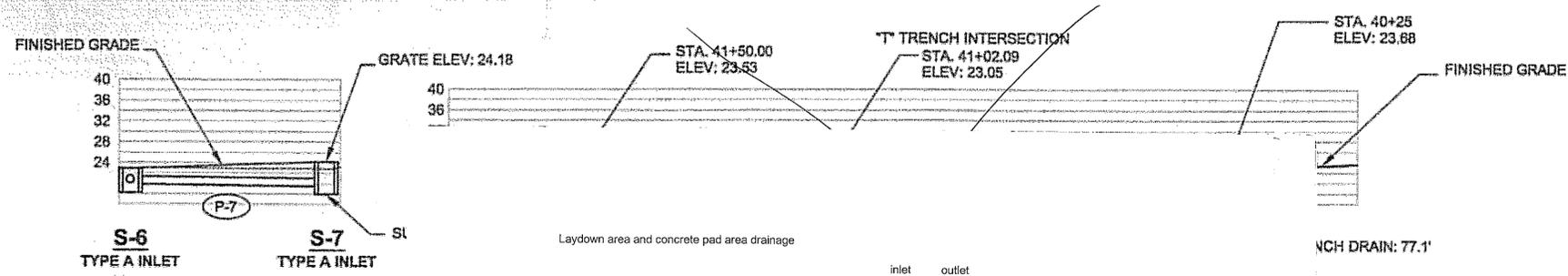
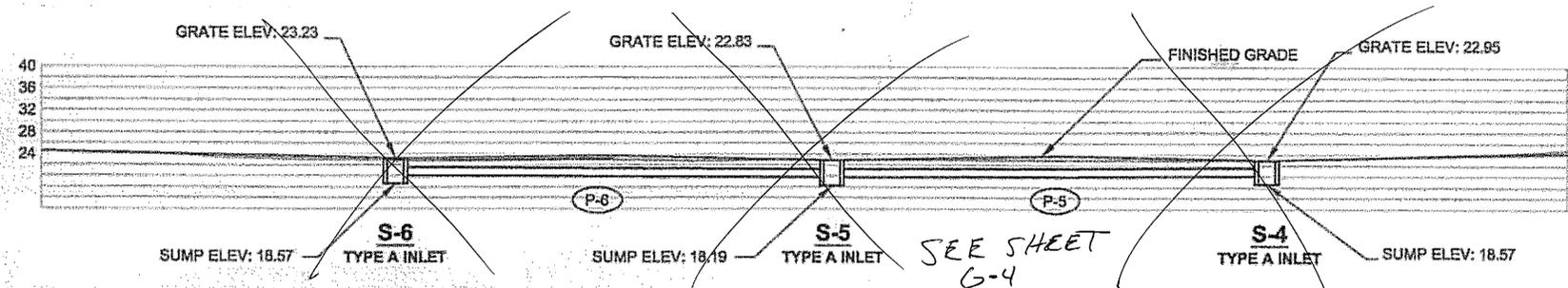
- NOTE:
- ALL STRUCTURES SHOWN INCLUDE STANDARD 18" SUMP.
  - ALL TRENCH DRAIN ELEVATIONS ARE FOR FLOW LINE OF TRENCH. SEE TRENCH DRAIN DETAIL SHET K1.



PLAN VIEW  
 STRUCTURE S-2



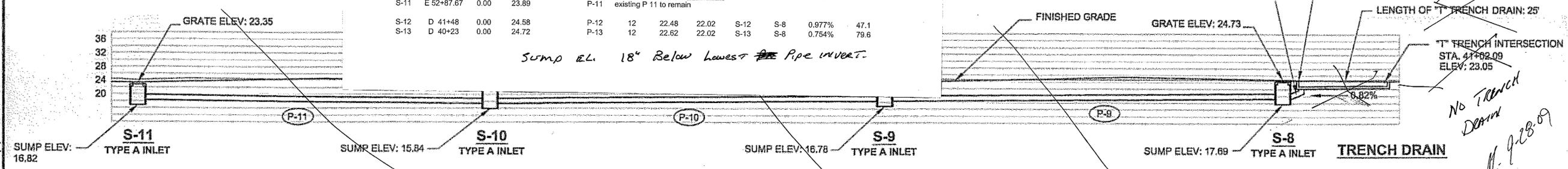
PLAN VIEW  
 STRUCTURE S-3



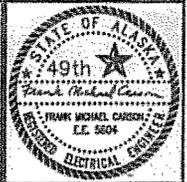
Laydown area and concrete pad area drainage

structure	station	offset	grate el	pipe	Dia in	inlet invert	outlet invert	from	to	slope	length
S-8	D 41+02	10' Lt	24.62	P-8	18	22.02	21.47	S-8	S-9	0.408%	135.44
S-9	E 50+70.45	0.00	23.87	P-9	18	21.47	21.00	P-9 and P-8 are now one pipe called out as P-8 above.			
S-10	E 51+85.56	0.00	23.80	P-10	18	21.47	21.00	S-9	S-10	0.408%	115.11
S-11	E 52+87.67	0.00	23.89	P-11	18	21.47	21.00	existing P 11 to remain			
S-12	D 41+48	0.00	24.58	P-12	12	22.48	22.02	S-12	S-8	0.977%	47.1
S-13	D 40+23	0.00	24.72	P-13	12	22.62	22.02	S-13	S-8	0.754%	79.6

Sump EL. 18" Below Lowest Pipe Invert.



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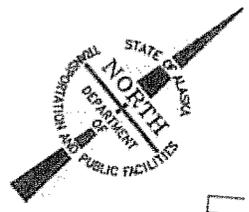
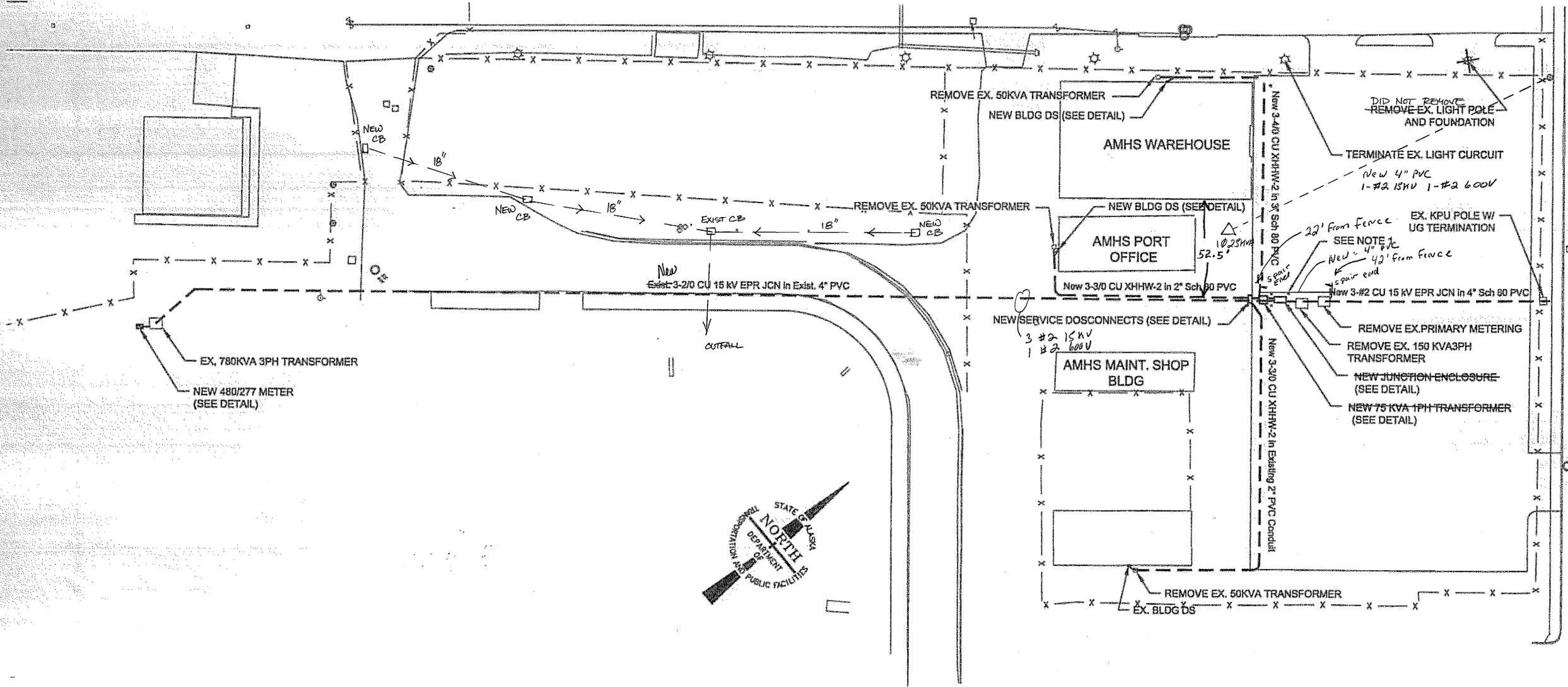


**NORTHSTAR POWER  
ENGINEERING**  
P.O. BOX 1337, CRAIG, ALASKA 99921  
907-286-2893 nstarpower@alaska.net

**SHIPYARD PARKING ELECTRICAL DETAILS**  
SHIPYARD PARKING LOT & LAYDOWN AREA FACILITY  
KETCHIKAN, ALASKA

DATE: 7-20-08  
PROJECT: 59115

**L-1**  
ELECTRICAL  
PLAN



**NOTE:**  
1. INSTALL 4 BOLLARD POSTS SUCH THAT ACCESS TO TRANSFORMERS IS MADE AVAILABLE. SEE BOLLARD POST DETAILS SHEET J2.

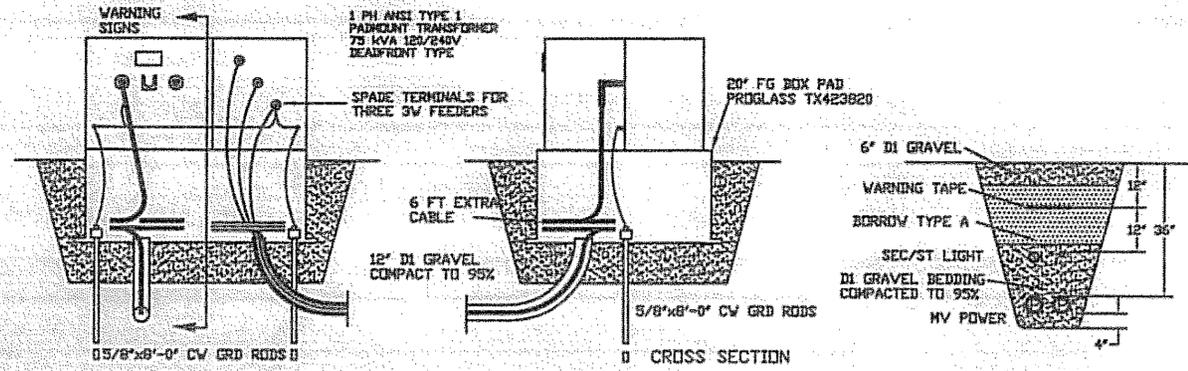
3/6

**TONGASS AVENUE**

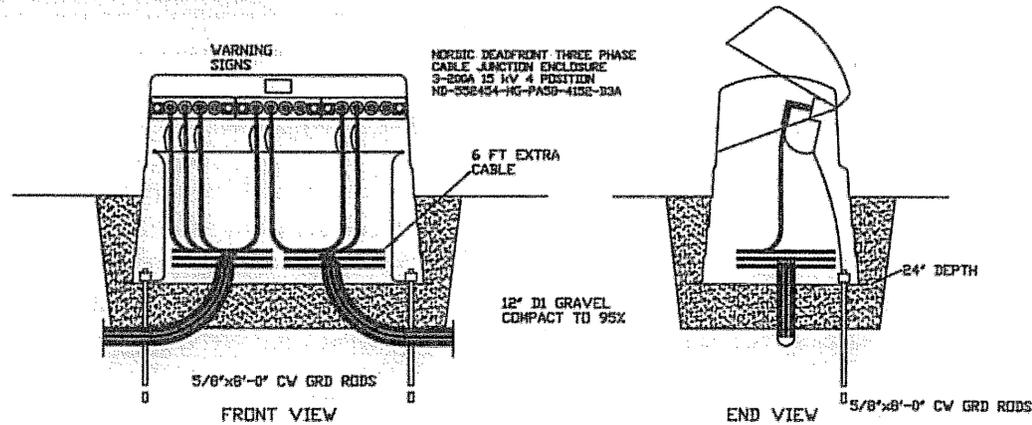
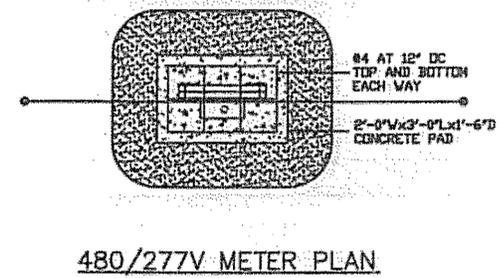
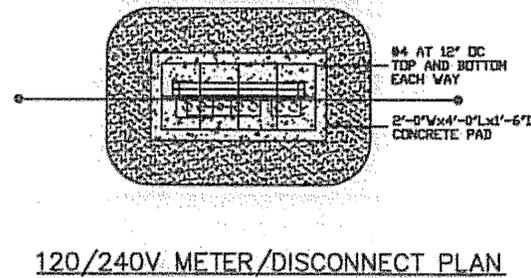
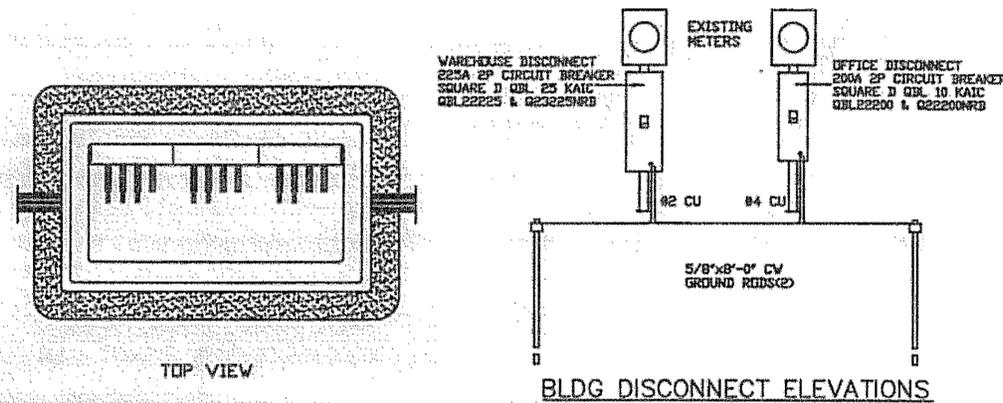


**NORTHSTAR POWER  
ENGINEERING**  
P.O. BOX 1137, CHAG, ALASKA 99821  
907-289-5137 nstarpower@alaska.net

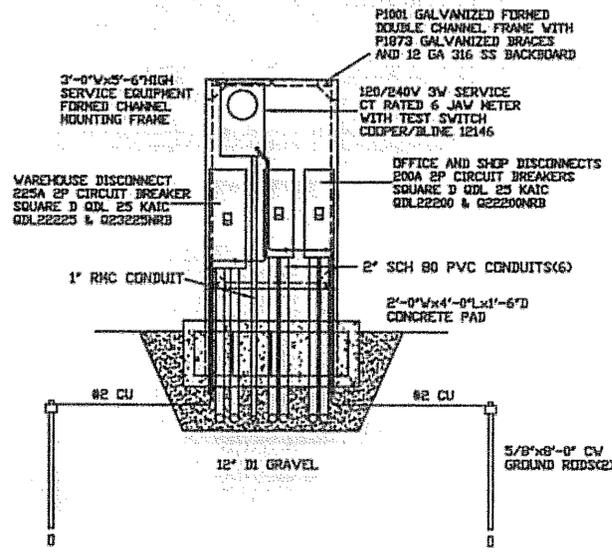
**SHIPYARD PARKING ELECTRICAL DETAILS**  
SHIPYARD PARKING LOT & LAYDOWN AREA FACILITY  
KETCHIKAN, ALASKA



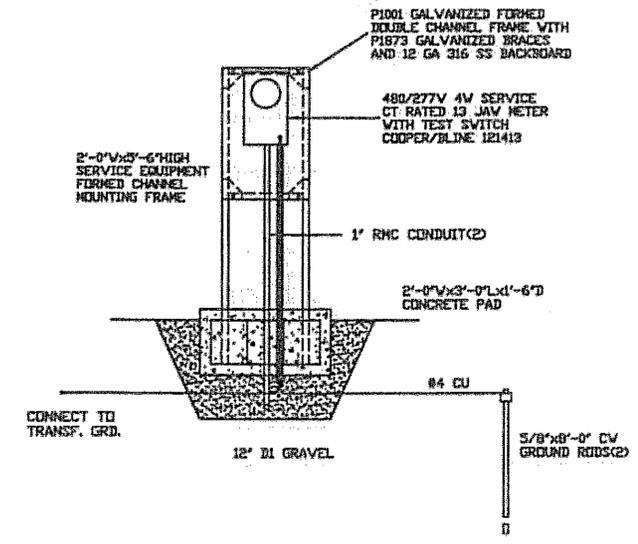
- NOTES:**
1. CONTRACTOR SHALL INSTALL ADDT SPEC DI GRAVEL UNDER ELECTRICAL EQUIPMENT. FILL SHALL BE COMPACTED TO 95%. FINISHED ELEVATION SHALL NOT BE BELOW THE ADJACENT TERRAIN. EQUIPMENT SHALL NOT BE PLACED WHERE STORM WATER CAN ACCUMULATE.
  2. BURIED ELECTRICAL CONDUITS SHALL BE SCHEDULE 80 PVC. PRIMARY ELECTRICAL CONDUITS SHALL BE INSTALLED AT LEAST 36" BELOW GRADE AND SECONDARY CONDUITS SHALL BE INSTALLED AT LEAST 24" BELOW GRADE MEASURED TO THE TOP OF THE CONDUITS.
  3. PRIMARY CONSTRUCTION SHALL CONFORM TO THE NESC AND KETCHIKAN PUBLIC UTILITIES REQUIREMENTS FOR UNDERGROUND POWER DISTRIBUTION SYSTEMS.
  4. PRIMARY CABLES SHALL BE 3-#2 CU 15 KV EPR INSULATED JACKED FULL CONCENTRIC NEUTRAL CABLE. PRIMARY CABLES SHALL BE INSTALLED IN 4" SCH 80 PVC CONDUIT.
  5. SECONDARY CABLES SHALL BE 3-4/0 CU XHHW-2 TO THE WAREHOUSE AND 3-3/0 CU XHHW-2 TO THE PORT ENGINEER'S OFFICE AND THE MAINTENANCE SHOP BUILDING. SECONDARY CABLES SHALL BE INSTALLED IN 2" OR 3" SCH 80 PVC CONDUIT AS NOTED.
  6. THE SYSTEM VOLTAGE TO THE AMHS WAREHOUSE, PORT ENGINEER'S OFFICE AND MAINTENANCE BUILDING SHALL BE CONVERTED TO 120/240 V. GROUNDING SYSTEMS IN ACCORDANCE WITH NEC ARTICLE 250 SHALL BE PROVIDED IN THE AMHS WAREHOUSE, PORT ENGINEER'S OFFICE AND THE MAINTENANCE BUILDING.
  7. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF ANSI, IEEE, NEMA AND UL STANDARDS. SECONDARY INSTALLATION SHALL CONFORM TO KPU STANDARDS AND THE NEC, 2005 EDITION.
  8. ALL EXPOSED METALLIC PARTS SHALL BE EFFECTIVELY GROUNDDED.
  9. KPU WILL FURNISH THE POWER TRANSFORMER AND CURRENT AND VOLTAGE TRANSFORMERS.



**THREE PHASE JUNCTION ENCLOSURE DETAIL**



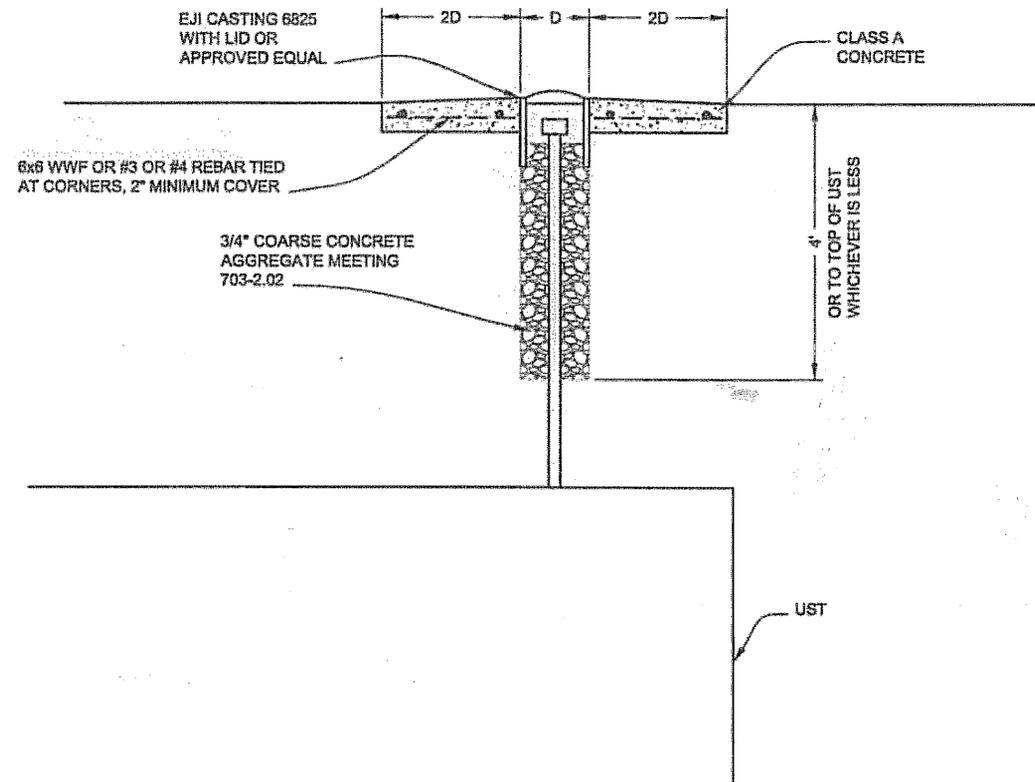
**120/240V METER/DISCONNECT ELEVATION**



**480/277V METER ELEVATION**

DATE: 7-20-08  
PROJECT: 09115

**L-2**  
Electrical Notes  
and Details



**UST FILLER CAP CASE DETAIL**

PATH: Q:\KTN168880\PLANS\SETM1\_TANK DET.DWG

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

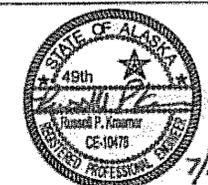
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
 PROJECT No. 69115

MISCELLANEOUS DETAILS



CHECKED BY: R. KRAEMER



DESIGNED BY: C. WANISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION  
 SHIPYARD PARKING LOT  
 & LAYDOWN AREA  
 PROJECT # 69115

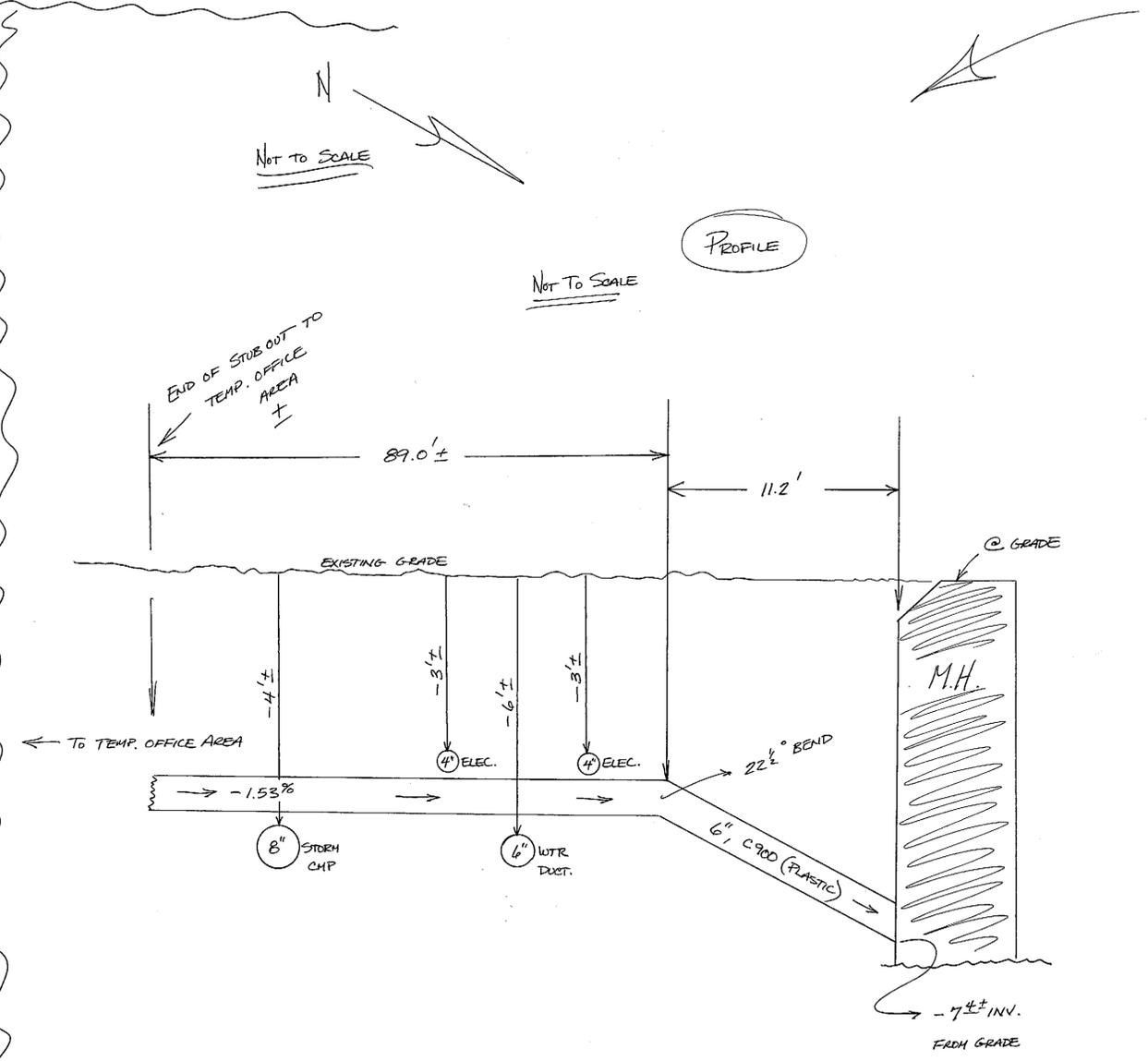
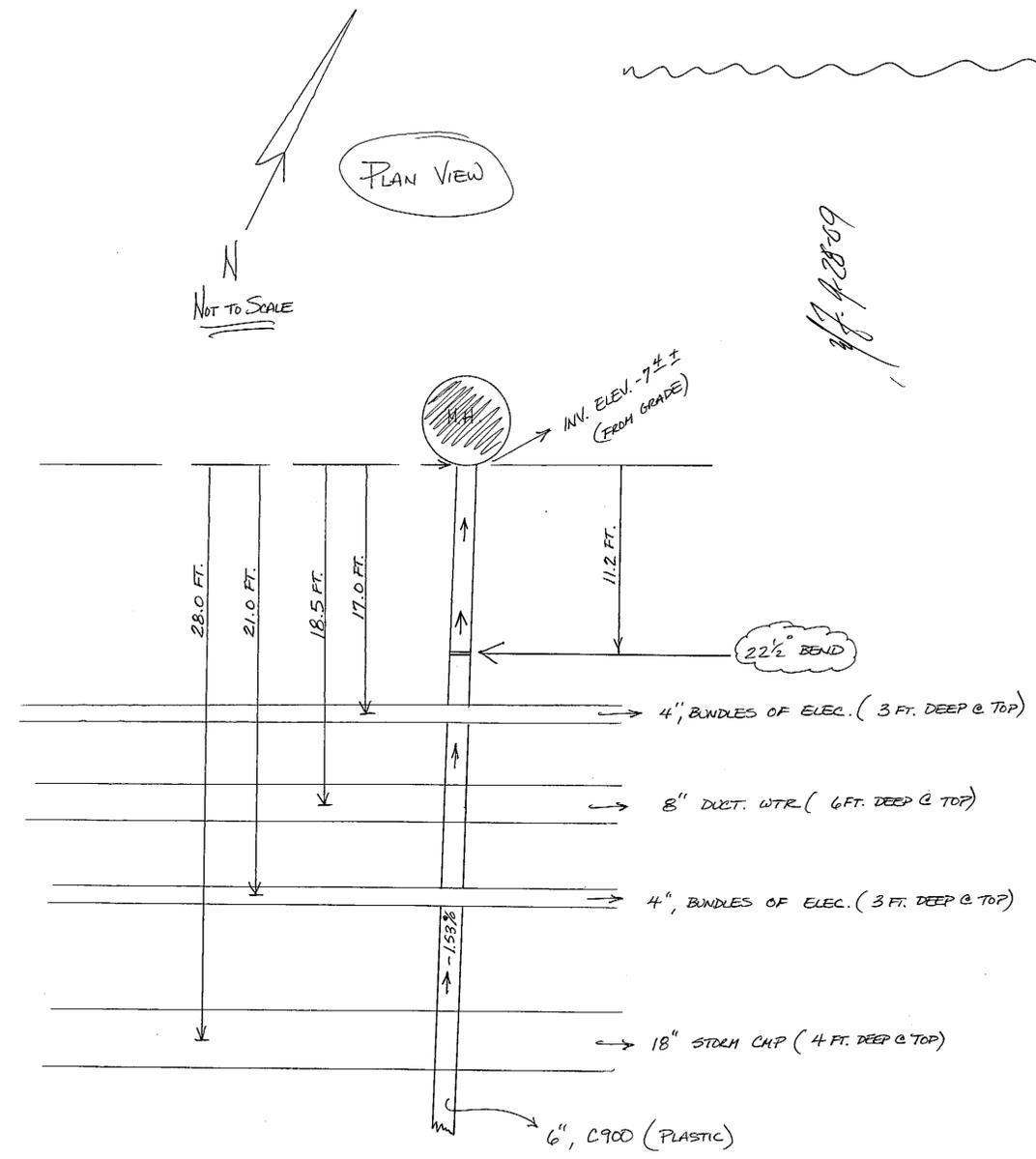
**MISCELLANEOUS  
 DETAILS**

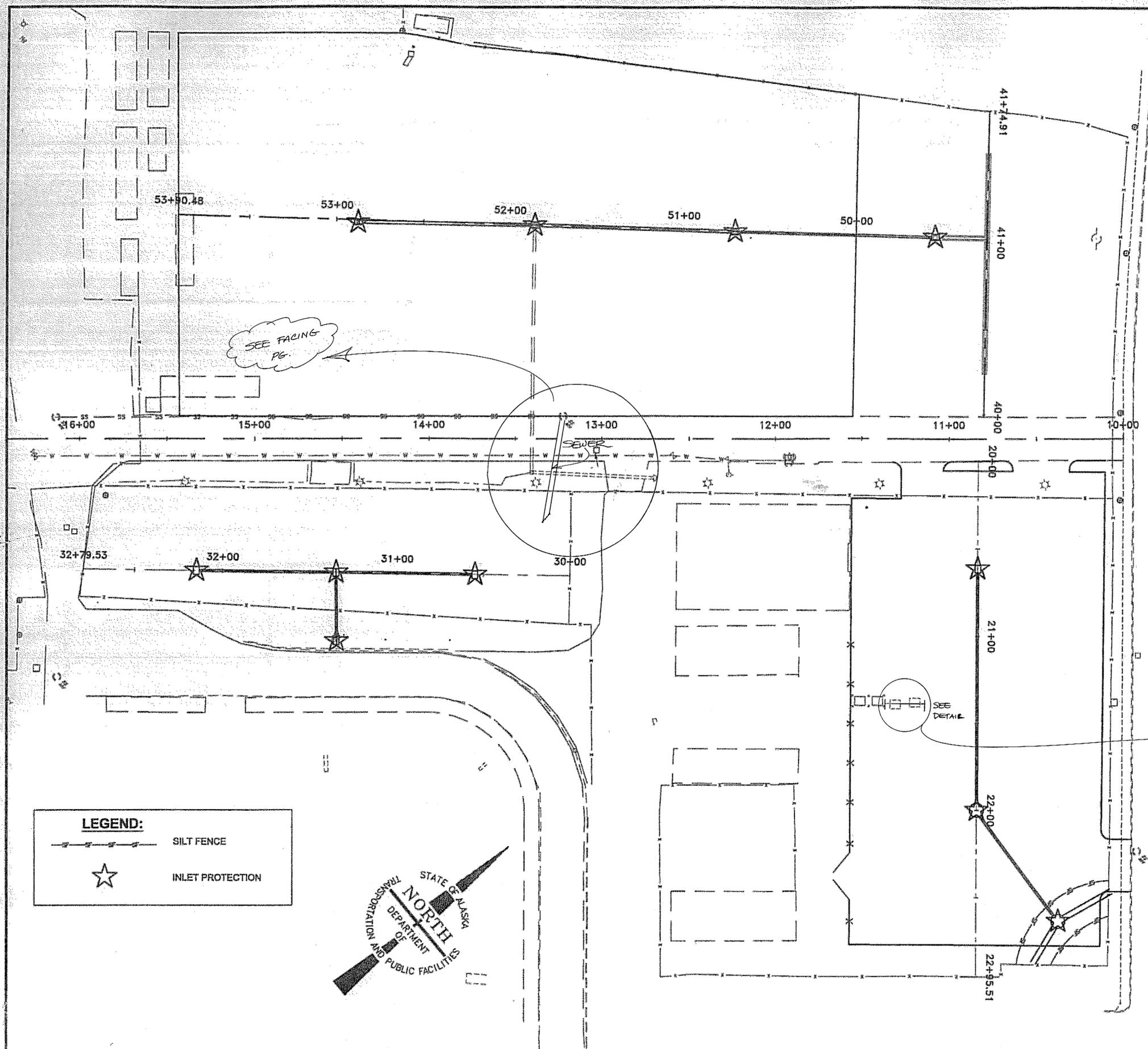
PROJECT DESIGNATION

69115

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M1	25

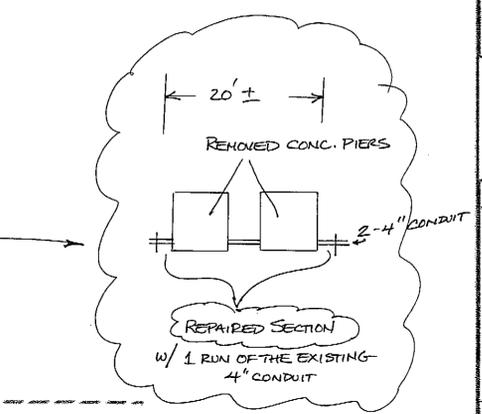
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS





- NOTES:**
1. INSTALL AND MAINTAIN SILT FENCE TO CONTROL SEDIMENT UNTIL OPEN DITCH HAS BEEN REPLACED WITH STORM DRAIN SYSTEM.
  2. INLET PROTECTION MUST BE INSPECTED AND MAINTAINED PER SECTION 641-3.01.

TONGASS AVENUE



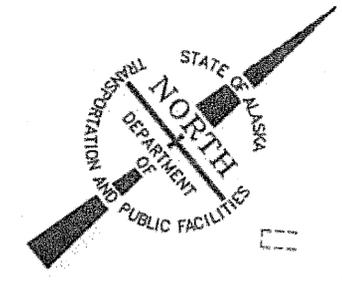
**HECKMAN STREET**

*9/28/09*

**LEGEND:**

— — — — — SILT FENCE

★ INLET PROTECTION



PATH: Q:\CTM6988\PLANS\T1\_EROSION PLAN.DWG

WMHICKOK

TAB: T1 Friday, July 29, 2005 11:27:44 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT No. 69115

EROSION & SEDIMENT CONTROL PLAN



CHECKED BY: R. KRAEMER

7/21/06

DESIGNED BY: C. NAWISZEK

DRAWN BY: B. BENNETT, R.L.G.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

SHIPYARD PARKING LOT & LAYDOWN AREA  
PROJECT # 69115

**EROSION & SEDIMENT CONTROL PLAN**

PROJECT DESIGNATION	
69115	
STATE	YEAR
ALASKA	2006
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