

# State of Alaska

Department of Transportation and Public Facilities

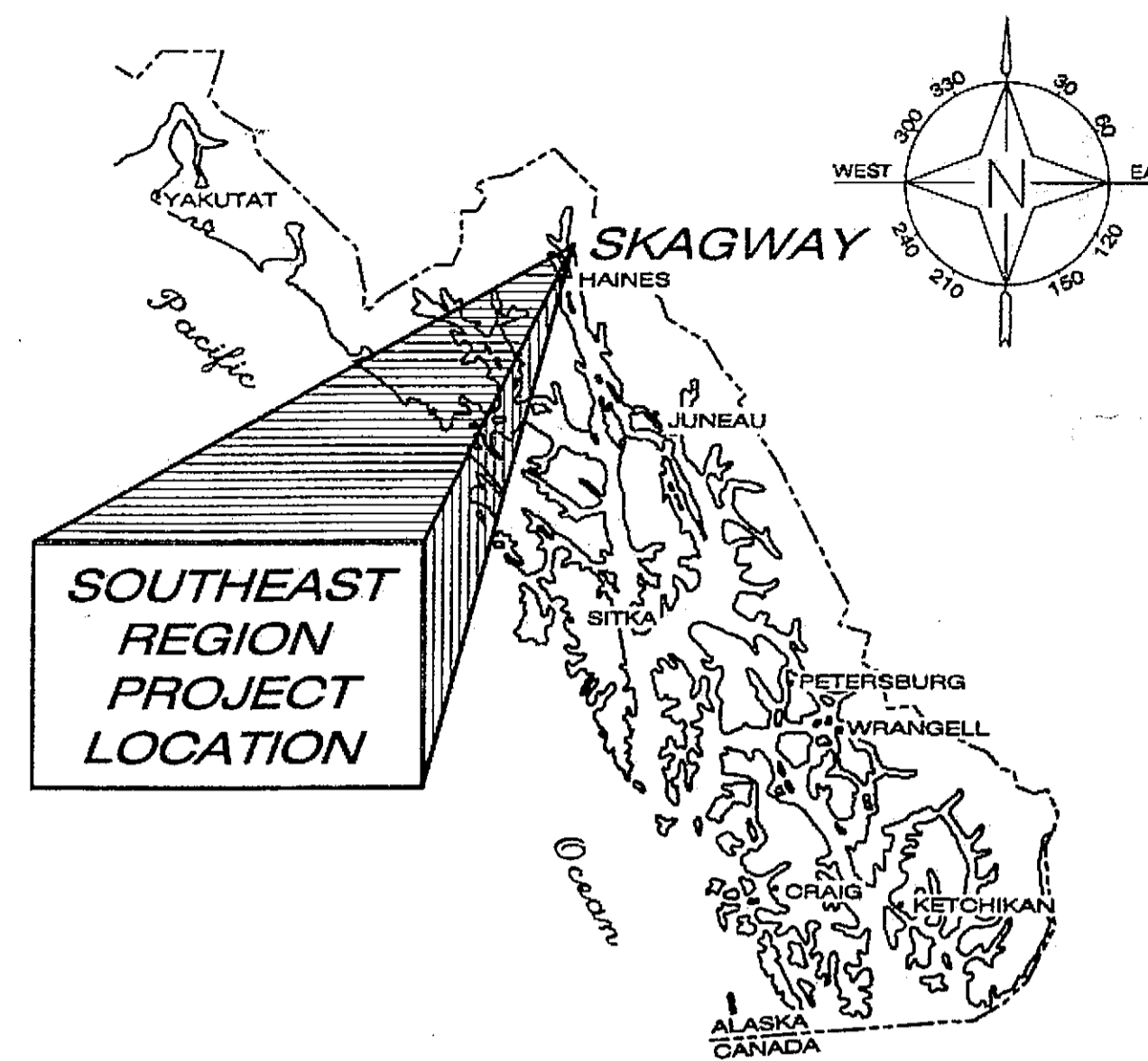
S.E. Region Design and Engineering Division

## SKAGWAY, ALASKA

## DYEA ROAD

## MP 4.2 - 8.1 SAFETY IMPROVEMENTS

HHE-0997(7)-68576



AS-BUILT PLANS  
 CONTRACTOR: Channel Construction Inc.  
 PROJECT ENGINEER: Steve Mickel  
 BEGIN DATE: JANUARY 16, 2005  
 END DATE: JUNE 1, 2005  
 TOTAL CONTRACT AMOUNT: \$ 2,064,948.73

### DESIGN DESIGNATIONS

ADT 2006	=	300
ADT 2026	=	370
DHV 13.7% (2026)	=	50
% T	=	22.8%
V	=	25 MPH

### PROJECT SUMMARY

LENGTH OF PROJECT	3.9 MI.
LENGTH OF GRADING	1.6 MI.
WIDTH OF GRADING	24 FT.

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

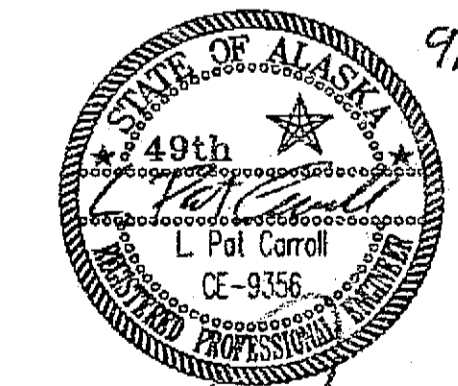
A-1	G-04.07W	S-05.01
C-04.12	G-10.01	S-20.10
D-01.02	G-13.00	S-30.03
D-04.21	G-20.10	S-31.00
D-13.10	I-81.00	S-32.00
D-14.10	L-26.00	
G-00.01	S-00.10	
G-04.06S	S-01.00	

### INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2-A3	SURVEY CONTROL PLAN
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D2	SUMMARY TABLES
F1-F13	PROJECT PLANS & PROFILES
J1-J5	PROJECT DETAILS
S1-S2	TRAFFIC CONTROL
T1-T5	EROSION & SEDIMENT CONTROL PLAN

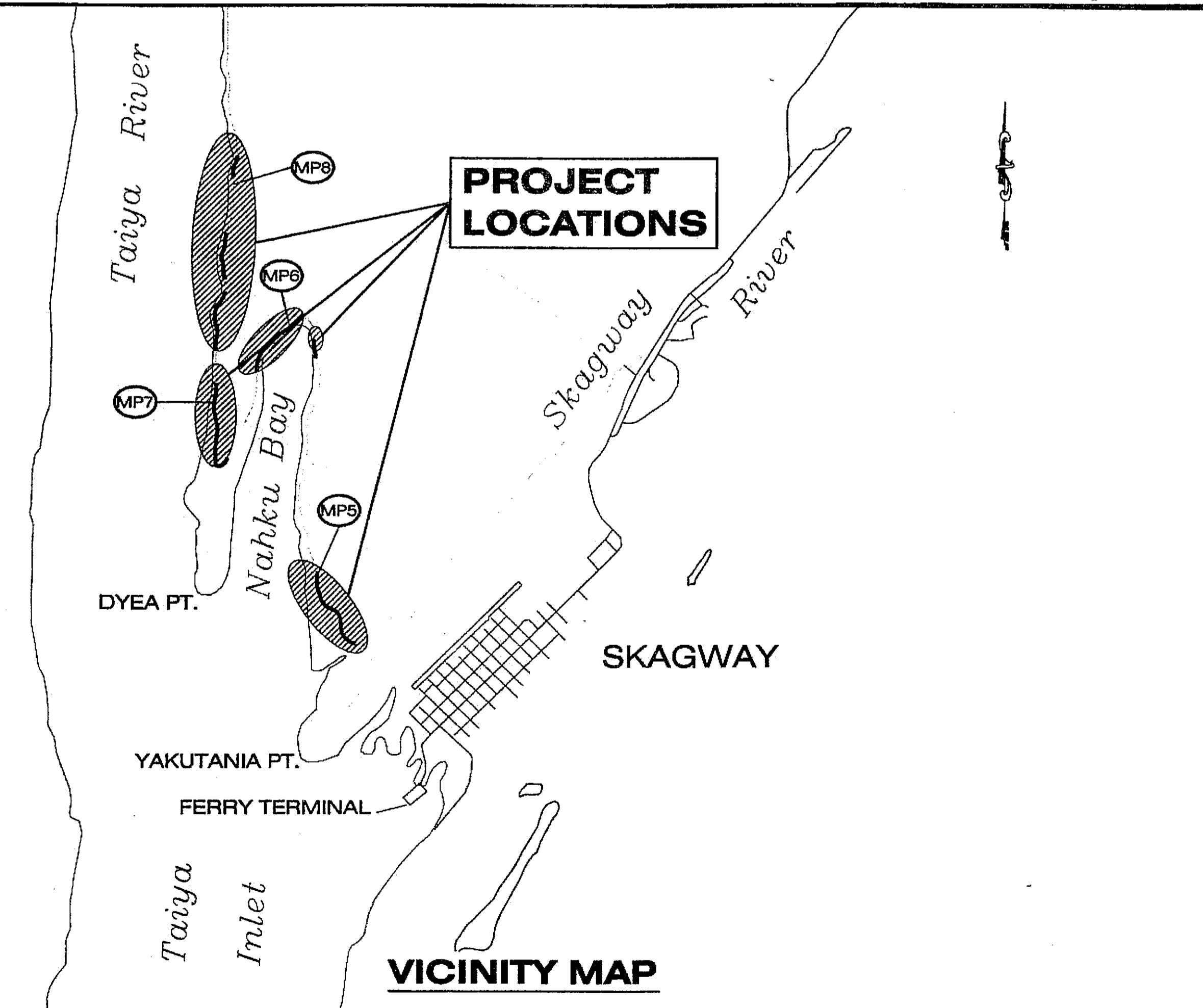
PATH: Q:\Sgy\68576\Planset\A1\_Tsht.dwg  
 Thu, 23/Sep/04 07:30AM mltaylor  
 PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING DIVISION

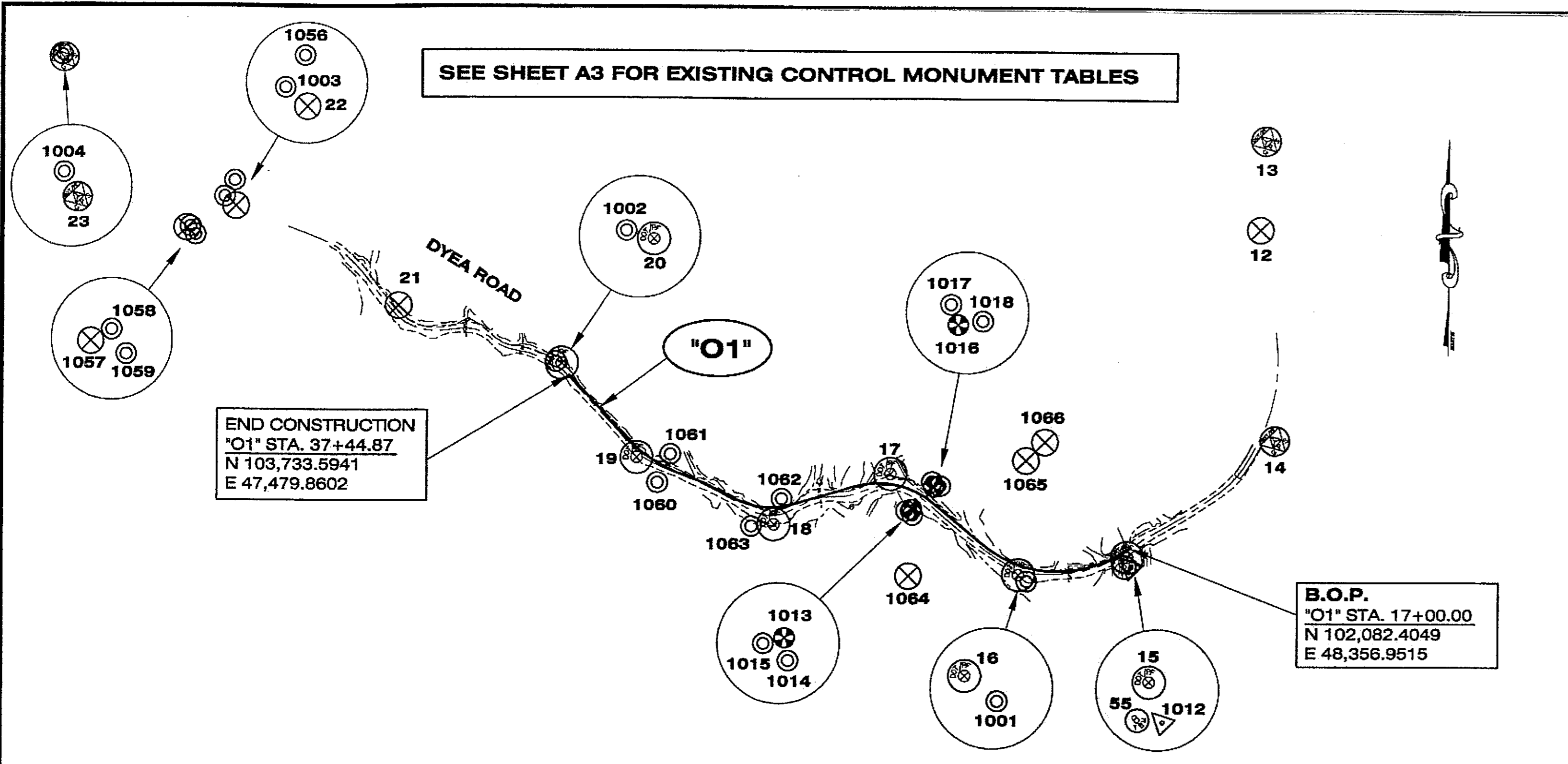


APPROVED: *[Signature]* 9/23/04  
 PATRICK J. KEMP  
 REGIONAL PRE-CONSTRUCTION ENGINEER  
 DATE

APPROVED: *[Signature]* 9/23/04  
 GARY PAXTON  
 REGIONAL DIRECTOR  
 CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:  
 CONSTRUCTION PROJECT MANAGER DATE



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HHE-0997(7)-68576	2004	A1	34



**HORIZONTAL CONTROL:**  
 The basis of horizontal control for this project is the DOT/PF 2002 Skagway Grid.

The DOT/PF SkagwayGrid-2002 System is a local ground coordinate system based at DOT/PF GPS control station ATS-4. It relates to AKSPC zone 1 NAD83 through the following parameters:  
 Zone = NAD83 AKSPC ZONE 1  
 Grid Scale = 0.999998136  
 Convergence = -1°23'17"

Translation about DOT/PF control point ATS-4 as follows:  
 AKSPC Northing = 2787802.33802 FT US  
 AKSPC Easting = 2377423.19027 FT US  
 Local Northing = 100611.34790 FT US  
 Local Easting = 49413.96260 FT US

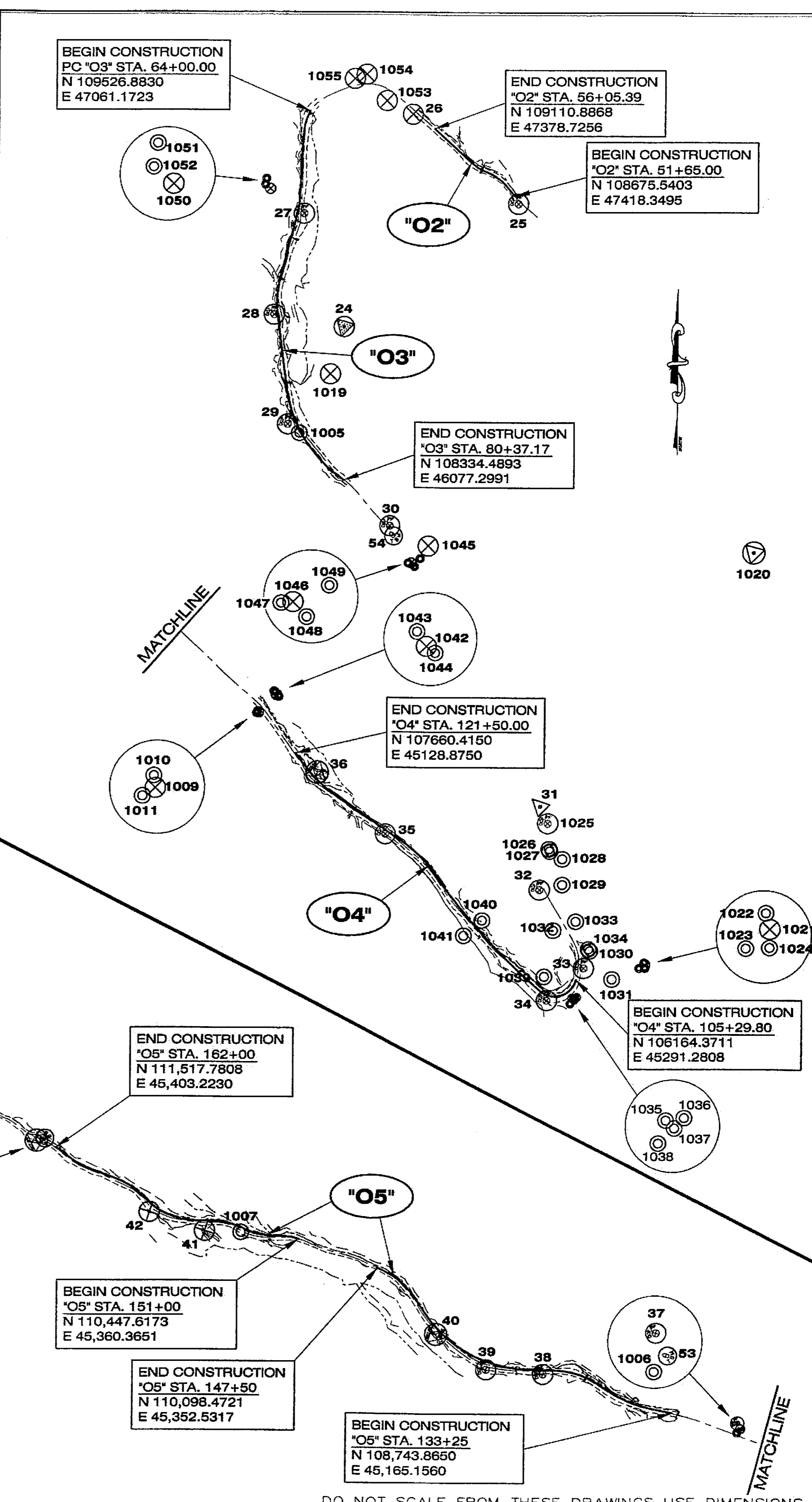
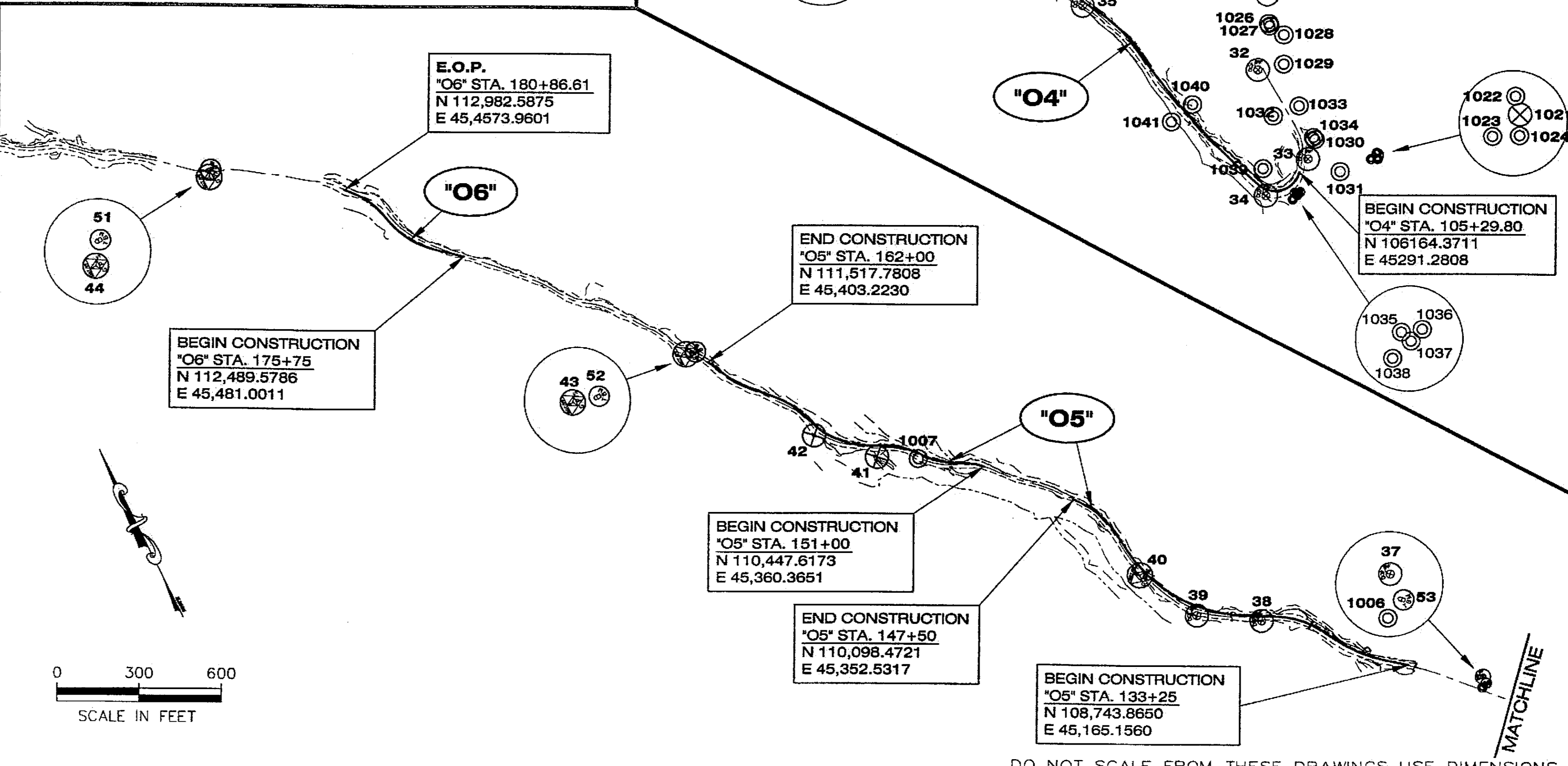
PID	LAT	LONG	ELLIP	ORTHO
ATS4	59° 27' 19.98147"N	135° 19' 26.49820"W	54.03'	29.25'

ATS-4 is a 3/4" aluminum cap in concrete located at the airport appx. 100' inside the Southeast gate. It is also corner # 1 of ASLS 99-5.  
**Coordinates** for this project established with SKI PRO static GPS processing and Sarnet least squares adjustment.

**VERTICAL CONTROL:**  
 The Vertical Datum for SGY Grid-2002 is MLLW Skagway tidal datum 9452400 based on third order trig levels and supplemented with GPS derived GEOID '99 Modeled Heights through DYE A control network. Trig levels were run from the NOS benchmark BM11 located just east of the spur line to the wharf, having a published elevation of 35.10 feet above MLLW to DOT/PF control points at the BOP. The tidal epoch is 1960-1978, but this epoch has been updated with a 5 year observation period from Jan '94 to Dec '98 published Nov '99. ATS-4 has an observed elevation of 29.25 ft above MLLW. Ellipsoid elevation of ATS-4 modified to 54.03 ft to adjust GEOID'99 to our local Tidal Datum of MLLW. That ellipsoid offset is +11.64' to published ellipsoid heights in the area. Geoid'99 Modeled Heights have proven better than 0.1' absolute accuracy compared with differential leveled values in the Skagway area.

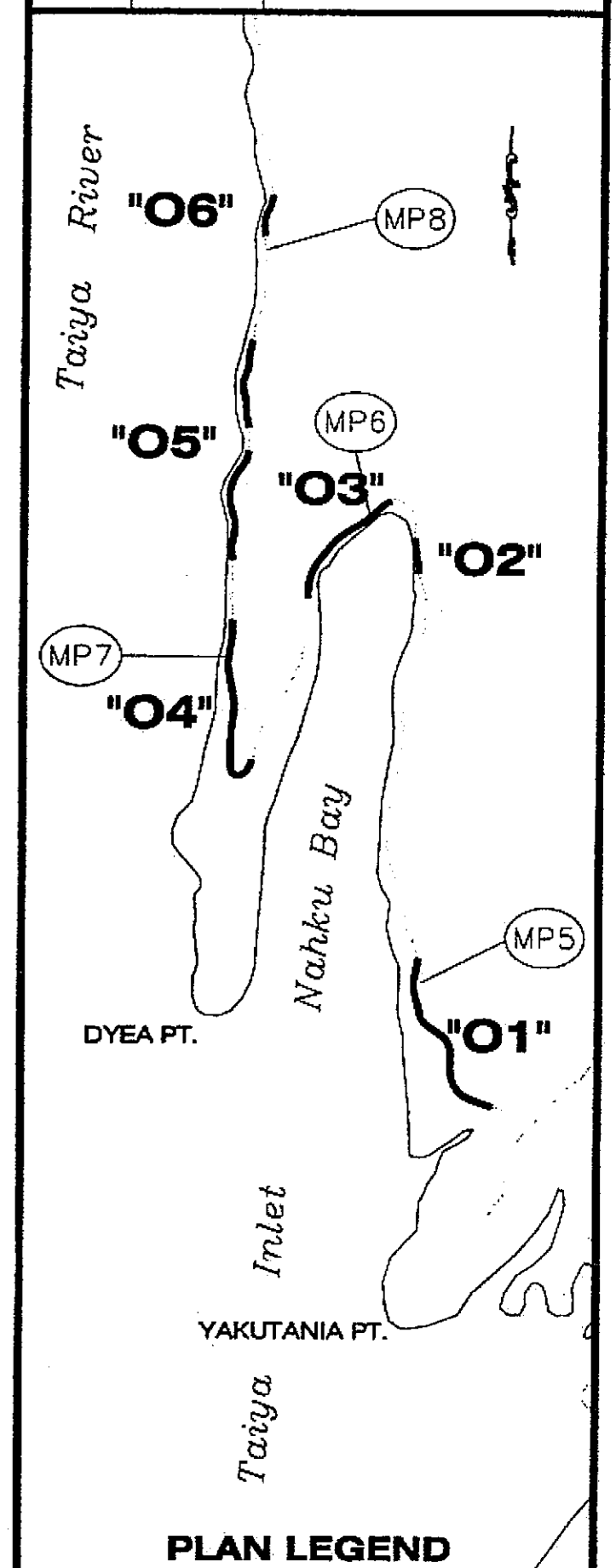
The following is a list of primary network control points. GPS measurements and conventional measurements were adjusted simultaneously in Star\*NET as a 3D grid adjustment on NAD83 Alaska State Plane zone 1. Coordinate values for all points were established between 10/30/02 and 11/20/02 during control network survey. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

**NOTE:**  
 Whether listed or not, all monuments or property markers or accessories which will be disturbed or buried shall be referenced prior to being disturbed and re-established in their original position and a record of monument form in accordance with A.S. 34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.



PATH:  
 O:\Sgy\68576\PlanSet\A2\_ControlPlan.dwg  
 Thu, 23/Sep/04 07:31AM mitaylor  
 TAB: A2

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: R. MURPHY

DESIGNED BY: T. REED  
 DRAWN BY: R. SNYDER  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING  
 SERVICES DIVISION  
**SGY-DYE A ROAD  
 SAFETY IMPROVEMENTS  
 PROJECT #68576**

**SURVEY CONTROL PLAN**

PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>A2</b>	<b>34</b>

### EXISTING CONTROL MONUMENT TABLE

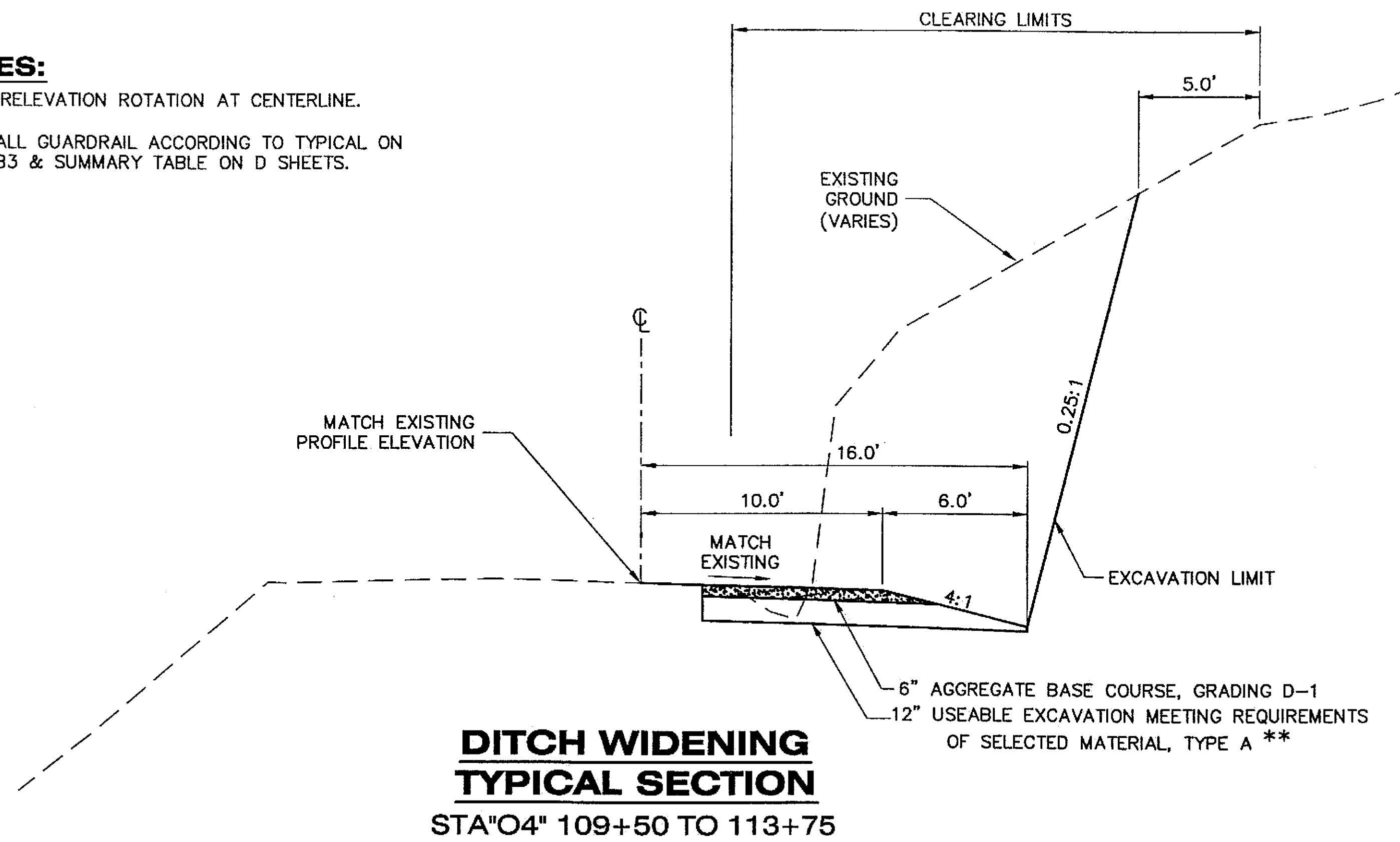
POINT	LOCAL NORTH US FEET	LOCAL EAST US FEET	ORTHO ELEV US FEET	DESCRIPTION	AKSPC NORTH US FEET	AKSPC EAST US FEET
1	99999.9749	49999.9912	26.62	GPS_CL_MON_1ST&STATE	2787176.9498	2377994.2361
2	98665.5396	48269.8042	27.89	GPS_ALCTRL_TEM-1	2785884.8201	2376232.2350
4	100611.3479	49413.9626	29.25	GPS_ALCAP3.25"_ASLS99-5/ATS-4	2787802.3380	2377423.1903
5	98309.0265	49487.5746	27.37	GPS_ALCTRL_SYF-5	2785498.9133	2377441.0097
8	98629.7682	50836.3691	34.22	BM_USC&GS_1959_BM-8	2785786.8875	2378797.1755
11	99359.7922	51025.0559	35.10	BM_USC&GS_1969_BM-11	2786512.1252	2379003.4905
12	102517.5623	49369.1927	296.61	BC3.25"_DYE-12	2789709.0740	2377424.6092
13	102707.1323	49582.0481	269.75	GPS_ALCTRL2"/REBAR_DYE-13	2789893.4319	2377641.9938
14	102005.5862	48927.7957	256.88	GPS_ALCTRL2"/REBAR_DYE-14	2789207.9414	2376970.9406
15	102067.1496	48330.1062	289.06	ALCTRL2"/REBAR_DYE-15	2789283.9649	2376374.9189
16	102270.0883	48043.7402	281.40	ALCTRL2"/REBAR_DYE-16	2789493.7805	2376093.5534
17	102787.7011	47984.7588	264.53	ALCTRL2"/REBAR_DYE-17	2790012.6692	2376047.1279
18	102933.6223	47608.2485	238.09	ALCTRL2"/REBAR_DYE-18	2790167.6678	2375674.2635
19	103393.8356	47449.0607	213.96	ALCTRL2"/REBAR_DYE-19	2790631.6013	2375526.2708
20	103777.6489	47489.9825	193.36	ALCTRL2"/REBAR_DYE-20	2791014.3100	2375576.4779
21	104271.7419	47257.2189	188.26	BC3.25"_DYE-21	2791513.8955	2375355.7518
22	104863.8401	47113.3154	136.44	BC3.25"_DYE-22	2792109.3047	2375226.2337
23	105589.4335	47058.4796	114.95	GPS_BC3.25"_DYE-23	2792836.0122	2375188.9906
24	108789.8369	46530.2508	36.04	USC&GS_BC3.5"_HEAD_DYE-24	2796048.2661	2374738.4435
25	108642.9988	47405.6834	43.74	ALCAP2"/REBAR_DYE-25	2795880.2652	2375610.0606
26	109217.9122	47356.4171	32.06	BC3.25"_DYE-26	2796456.2022	2375574.7354
27	109241.8746	46743.8828	71.16	ALCTRL2"/REBAR_DYE-27	2796494.9954	2374962.9625
28	109028.9869	46361.9162	128.31	ALCTRL2"/REBAR_DYE-28	2796291.4232	2374575.9517
29	108664.1214	46079.2708	126.76	ALCTRL2"/REBAR_DYE-29	2795933.5122	2374284.5514
30	108062.4310	46080.6760	118.66	ALCTRL2"/REBAR_DYE-30	2795331.9654	2374271.3810
31	106786.5296	45699.4665	179.31	X_SET_DYE-31	2794065.6751	2373859.3770
32	106540.0448	45452.2177	157.82	ALCTRL2"/REBAR_DYE-32	2793825.2524	2373606.2304
33	106177.1681	45347.6252	158.33	ALCTRL2"/REBAR_DYE-33	2793465.0165	2373492.8786
34	106188.3985	45146.2384	130.54	ALCTRL2"/REBAR_DYE-34	2793481.1219	2373291.8233
35	107159.0494	45161.7531	63.92	ALCTRL2"/REBAR_DYE-35	2794451.1103	2373330.8462
36	107540.7751	45141.0563	88.36	GPS_ALCTRL2"/REBAR_DYE-36	2794833.2247	2373319.4023
37	108476.1411	45210.8816	77.56	ALCTRL2"/REBAR_DYE-37	2795766.6230	2373411.8650
38	109302.5068	45150.4187	49.25	ALCTRL2"/REBAR_DYE-38	2796594.2093	2373371.4376
39	109531.9939	45093.0731	50.37	ALCTRL2"/REBAR_DYE-39	2796825.0178	2373319.6680
40	109777.1818	45167.1019	66.91	GPS_ALCTRL2"/REBAR_DYE-40	2797068.3400	2373399.6143
41	110824.0534	45268.9078	77.34	BC2"_DYE-41	2798112.4364	2373256.7493
42	111064.5631	45271.1484	62.77	BC2"_DYE-42	2798352.8208	2373534.8153
43	111602.1020	45403.2389	36.62	GPS_ALCTRL2"/REBAR_DYE-43	2798887.0012	2373679.8879
44	113460.1433	45457.0142	27.61	GPS_ALCTRL2"/REBAR_DYE-44	2800743.1912	2373778.6560
45	114262.2482	45315.7087	24.74	ALCTRL3"/REBAR_DYE-45	2801548.4822	2373656.8222
46	115084.7646	45259.8047	68.86	BC2"_DYE-46	2802372.1099	2373620.8592
47	115341.3819	45346.9750	86.68	ALCTRL3"/REBAR_DYE-47	2802626.5398	2373714.2199
48	115593.4225	45395.2948	95.63	BC2"_DYE-48	2802877.3355	2373768.6308
49	116743.7984	45206.2244	26.36	GPS_BC2"_DYE-49	2804031.9517	2373607.4827
50	115924.9682	42863.0392	21.02	GPS_ALCTRL3"/DIGGER_DYE-50	2803270.1239	2371245.1543
51	113464.7039	45485.9169	30.73	TBM3.25"_BC/ROCK_TBM-51	2800747.0503	2373807.6607
52	111572.6396	45423.3116	40.33	TBM3.25"_BC/ROCK_TBM-52	2798857.0613	2373699.2410
53	108456.8569	45192.0784	61.72	TBM3.25"_BC/ROCK_TBM-53	2795747.8000	2373392.6003
54	108021.2120	46061.8637	123.35	TBM3.25"_BC/ROCK_TBM-54	2795291.2143	2374251.5758
55	102051.8990	48302.0007	290.66	TBM3.25"_BC/ROCK_TBM-55	2789269.3996	2376346.4522
1001	102237.3054	48047.6231	285.32	PLASCAP/REBAR_D-25	2789460.9132	2376096.6410
1002	103794.7323	47480.5167	192.17	REBAR_DR-4	2791031.6176	2375567.4287
1003	104910.7277	47110.1251	134.16	PLASCAP/REBAR_DR-8A	2792156.2557	2375224.1801
1004	105598.2573	47061.1093	114.58	PLASCAP/REBAR_PT-70	2792844.7696	2375191.8333
1005	108603.7368	46087.4444	106.97	LEAD_PLUG/TACK_D-35	2795872.9474	2374291.2598
1006	108464.9433	45171.5913	61.06	REBAR_D-48	2795756.3803	2373372.3151
1007	110681.2187	45311.0488	78.09	PLASCAP/REBAR_D-55	2797968.6230	2373565.4178
1008	115328.6254	45358.4503	87.73	PLASCAP/REBAR_D-61	2802613.5091	2373725.3829
1009	107888.9405	45145.9822	42.62	ALCAP3.25"_ASLS79-18	2795181.1679	2373332.7606
1010	107895.4264	45146.0076	43.35	BT_20"PINE	2795187.6513	2373332.9431
1011	107892.1512	45138.0682	41.29	BT_8"ALDER	2795184.5694	2373324.9267
1012	102036.7302	48316.7935	292.33	X_ON_ROCK	2789253.8769	2376360.8732
1013	102659.5546	47952.2593	270.18	BLM_BC3.25"_C4L3/S5110	2789885.3478	2376011.5338
1014	102644.5150	47941.1193	269.36	BT_18"SPRUCE	2789870.5825	2376000.0328

### EXISTING CONTROL MONUMENT TABLE

POINT	LOCAL NORTH US FEET	LOCAL EAST US FEET	ORTHO ELEV US FEET	DESCRIPTION	AKSPC NORTH US FEET	AKSPC EAST US FEET
1005	108603.7368	46087.4444	106.97	LEAD_PLUG/TACK_D-35	2795872.9474	2374291.2598
1006	108464.9433	45171.5913	61.06	REBAR_D-48	2795756.3803	2373372.3151
1007	110681.2187	45311.0488	78.09	PLASCAP/REBAR_D-55	2797968.6230	2373565.4178
1008	115328.6254	45358.4503	87.73	PLASCAP/REBAR_D-61	2802613.5091	2373725.3829
1009	107888.9405	45145.9822	42.62	ALCAP3.25"_ASLS79-18	2795181.1679	2373332.7606
1010	107895.4264	45146.0076	43.35	BT_20"PINE	2795187.6513	2373332.9431
1011	107892.1512	45138.0682	41.29	BT_8"ALDER	2795184.5694	2373324.9267
1012	102036.7302	48316.7935	292.33	X_ON_ROCK	2789253.8769	2376360.8732
1013	102659.5546	47952.2593	270.18	BLM_BC3.25"_C4L3/S5110	2789885.3478	2376011.5338
1014	102644.5150	47941.1193	269.36	BT_18"SPRUCE	2789870.5825	2376000.0328
1015	102668.2084	47936.8914	265.61	BT_20"SPRUCE	2789894.3713	2375996.3801
1016	102659.8785	48052.9702	285.94	BLM_BC3.25"_C4L4/S5110	2789883.2320	2376112.2228
1017	102675.3004	48060.3959	284.48	BT_12"HEMLOCK	2789898.4695	2376120.0199
1018	102647.8772	48068.7302	296.75	BT_8"SPRUCE	2789870.5825	2376127.6874
1019	108689.6419	46351.5936	48.63	BC2"_WCMC-S35/S?_KALEN	2795952.4285	2374557.4120
1020	106919.9217	47068.3390	39.23	USGS_BC3.5"_NAHKA	2794165.8686	2375231.0765
1021	106009.3124	45537.6004	113.05	BC3"_C3_S3342	2793292.6084	2373678.7316
1022	106017.3631	45540.6417	113.37	BT_7"PINE	2793300.5831	2373681.9670
1023	106015.7795	45508.9588	117.18	BT_5"PINE	2793299.7674	2373650.2551
1024	105998.4885	45526.7975	113.42	BT_5"PINE	2793282.0494	2373667.6696
1025	106714.2190	45671.6418	172.19	ALCAP2"_L2/L3/ROW	2793994.0599	2373829.8089
1026	106633.9100	45600.4779	164.26	PLASCAP_EMPS	2793915.4985	2373756.7206
1027	106624.8640	45596.2595	164.41	PLASCAP_EMPS	2793906.5573	2373752.2843
1028	106565.8838	45609.1307	159.30	PLASCAP_EMPS	2793847.2827	2373763.7229
1029	106488.9734	45532.8632	153.67	PLASCAP_EMPS	2793772.2425	2373685.6150
1030	106210.4515	45416.2425	154.46	PLASCAP_DOT_CTRL	2793496.6278	2373562.2818
1031	106062.3209	45397.0859	155.69	PLASCAP_EMPS	2793349.0050	2373539.5426
1032	106378.8044	45371.3382	151.83	PLASCAP_EMPS	2793666.0188	2373521.4689
1033	106339.7693	45463.4458	157.37	PLASCAP_EMPS	2793624.7640	2373612.6038
1034	106219.9669	45417.8206	154.64	PLASCAP_EMPS	2793506.1022	2373564.0900
1035	106122.0117	45226.8696	145.61	PLASCAP_EMPS	2793412.8015	2373370.8225
1036	106110.4621	45242.0161	149.03	BT_9"PINE	2793400.8885	2373385.6848
1037	106109.8554	45227.2441	147.40	BT_10"PINE	2793400.6397	2373370.9025
1038	106110.4215	45204.2963	144.09	BT_8"PINE	2793401.7615	2373347.9751
1039	106266.6012	45208.6896	138.70	PLASCAP_EMPS	2793557.7887	2373356.1504
1040	106616.1798	45192.9298	129.06	PLASCAP_EMPS	2793907.6458	2373348.8634
1041	106624.7061	45093.3188	79.10	PLASCAP_EMPS	2793918.5825	2373249.4883
1042	107888.0552	45249.2579	89.35	ALCAP3.25"_DIGGER_L6_ASLS79-188/ROW	2795177.7811	2373435.9844
1043	107905.8954	45253.0593	89.90	BT_6"ALDER	2795195.5240	2373440.2168
1044	107876.7101	45250.6756	90.94	BT_6"ALDER	2795166.4051	2373437.1268
1045	107889.9101	46135.8632	99.88	ALCAP3.25"_DIGGER_L5_ASLS79-188/ROW	2795158.1586	2374322.3728
1046	107889.8835	46035.8046	150.44	ALCAP3.25"_DIGGER_ASLS79-188/ROW	2795160.5558	2374222.3430
1047	107897.7575	46026.3933	150.67	BT_14"HEMLOCK	2795168.6555	2374213.1253
1048	107868.8828	46034.8015	158.31	BT_12"HEMLOCK	2795139.5856	2374220.8316
1049	107875.6897	46074.8018	150.44	BT_12"ALDER	2795145.4215	2374260.9849
1050	109412.6158	46717.9607	117.69	BC3"_C1_S3307	2796666.3141	2374941.1840
1051	109439.6498	46716.0703	117.69	BT_11"SPRUCE	2796693.3859	2374939.9490
1052	109454.0908	46736.4265	117.69	BT_10"PINE	2796707.3295	2374960.6491
1053	109334.5118	47318.0842	27.36	BC3"_C4_S3307	2796573.6960	2375539.2383
1054	109471.5544	47335.8090	42.90	BC2.5"_S3307/ROW	2796710.2687	2375560.2776
1055	109493.3546	47288.2803	44.96	BC2.5"_S3307/ROW	2796733.2138	2375513.2910
1056	104924.7155	47169.0575	160.53	ALCAP_SECMON_S2/PT_ROW/TB_ASLS81-43	2792168.8118	2375283.4339
1057	104924.8382</					

**NOTES:**

- 1. SUPERELEVATION ROTATION AT CENTERLINE.
- 3. INSTALL GUARDRAIL ACCORDING TO TYPICAL ON SHEET B3 & SUMMARY TABLE ON D SHEETS.



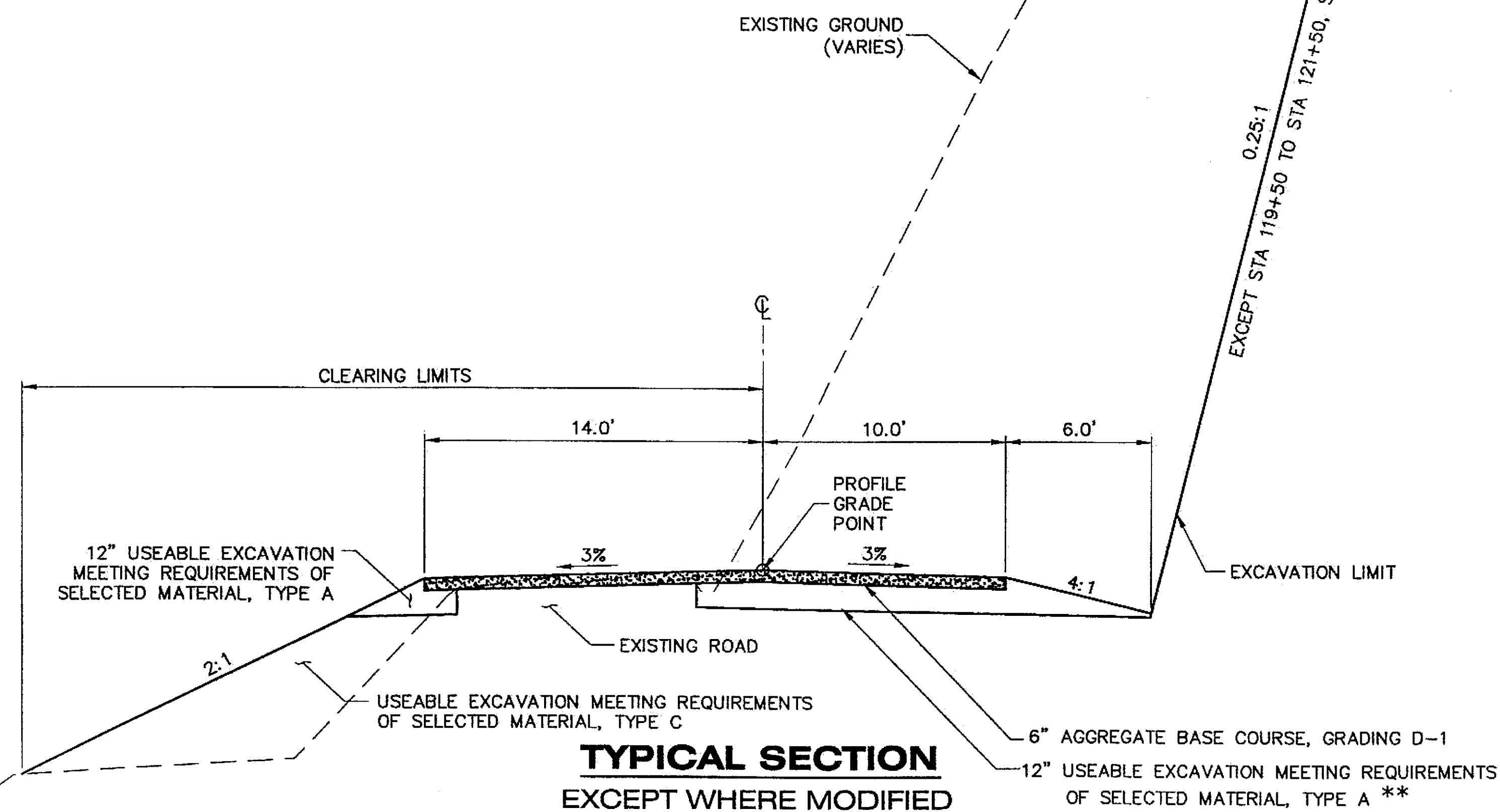
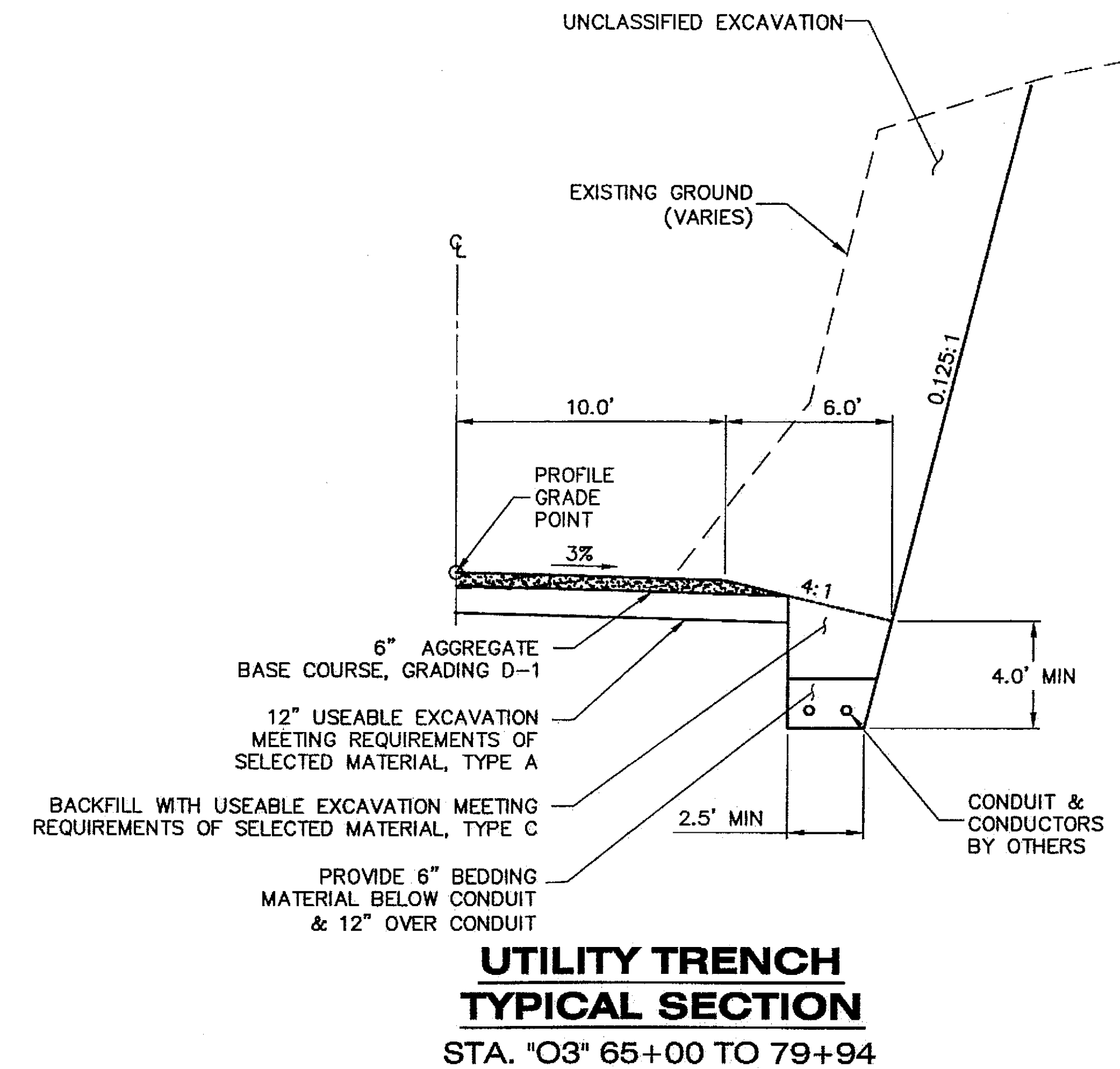
**\*SEEDING NOTE:**

SEED ALL DISTURBED SOIL SLOPES ONLY, NO SEEDING REQUIRED ON ROCK BACKSLOPES NOR SHOT ROCK EMBANKMENT SLOPES.

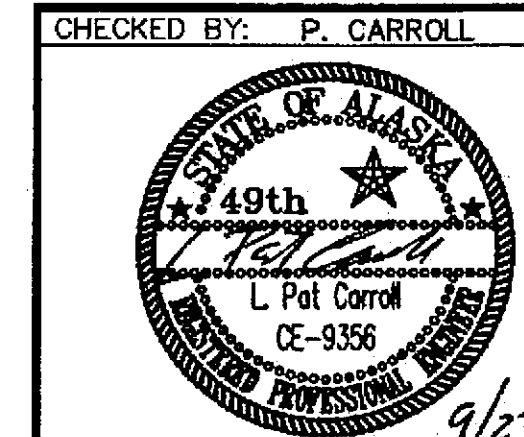
**\*\*BLASTING NOTE:**

IN ROCK DELETE 12" SELECTED MATERIAL. FRACTURE ROCK 12" UNDER AGGREGATE BASE.

CLEAR & SCALE TO 10' OR TO ROW WHICHEVER IS LESS



**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION  
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

CHECKED BY: P. CARROLL  
DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

PATH: Q:\Sgy\68576\PlanSet\B\_Typ.dwg  
TAB: B1 Thu, 23/Sep/04 07:32AM mltaylor

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			HHE-0997(7)	2004	B1	34

**\*SEEDING NOTE:**

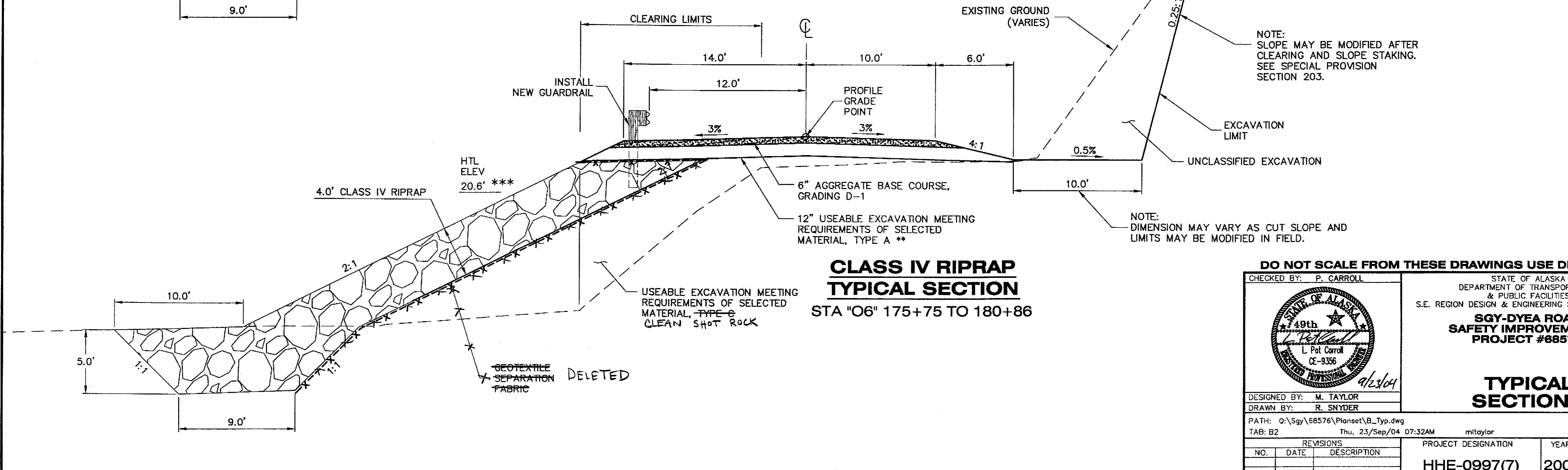
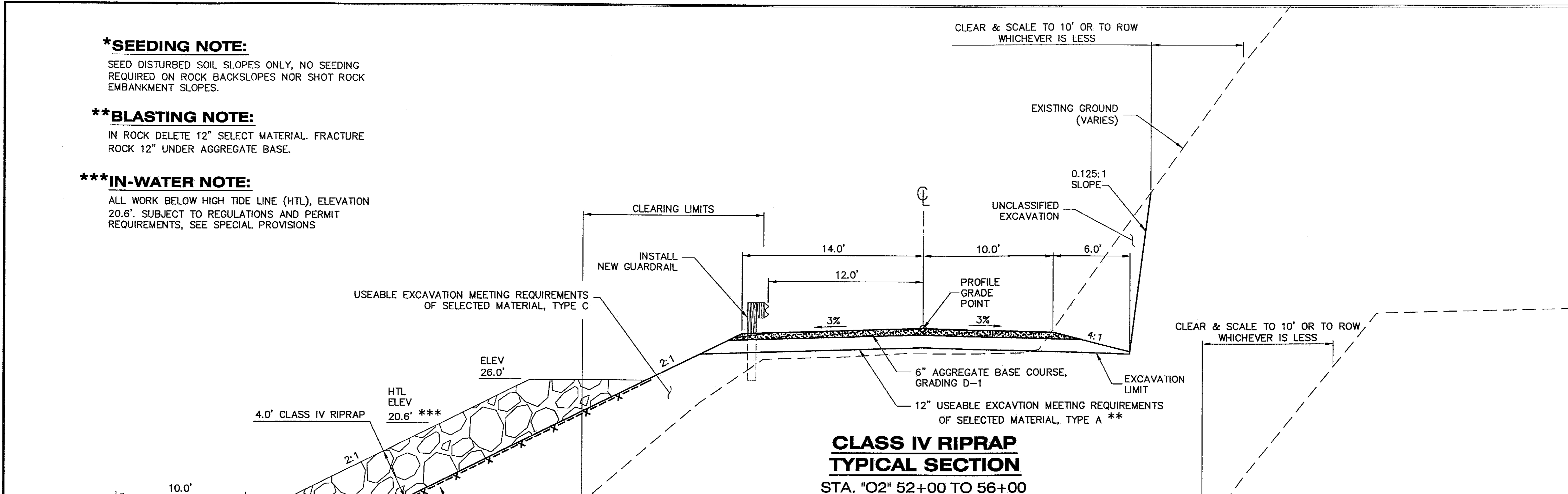
SEED DISTURBED SOIL SLOPES ONLY, NO SEEDING REQUIRED ON ROCK BACKSLOPES NOR SHOT ROCK EMBANKMENT SLOPES.

**\*\*BLASTING NOTE:**

IN ROCK DELETE 12" SELECT MATERIAL. FRACTURE ROCK 12" UNDER AGGREGATE BASE.

**\*\*\*IN-WATER NOTE:**

ALL WORK BELOW HIGH TIDE LINE (HTL), ELEVATION 20.6'. SUBJECT TO REGULATIONS AND PERMIT REQUIREMENTS, SEE SPECIAL PROVISIONS



**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION  
**SGY-DYEA ROAD SAFETY IMPROVEMENTS PROJECT #68576**

**TYPICAL SECTIONS**

PATH: O:\Sgy\68576\Planset\B\_Typ.dwg  
TAB: B2 Thu, 23/Sep/04 07:32AM mtaylor

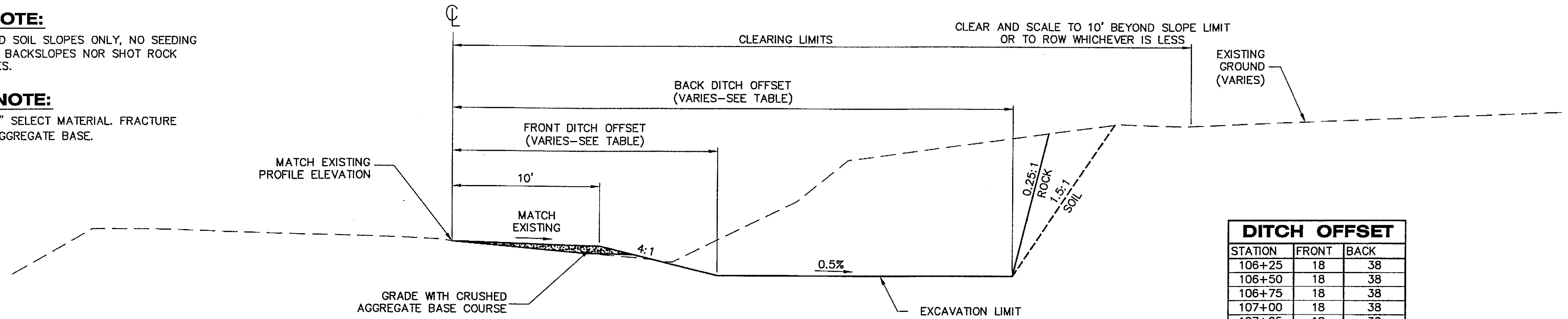
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			HHE-0997(7)	2004	B2	34

**\*SEEDING NOTE:**

SEED ALL DISTURBED SOIL SLOPES ONLY, NO SEEDING REQUIRED ON ROCK BACKSLOPES NOR SHOT ROCK EMBANKMENT SLOPES.

**\*\*BLASTING NOTE:**

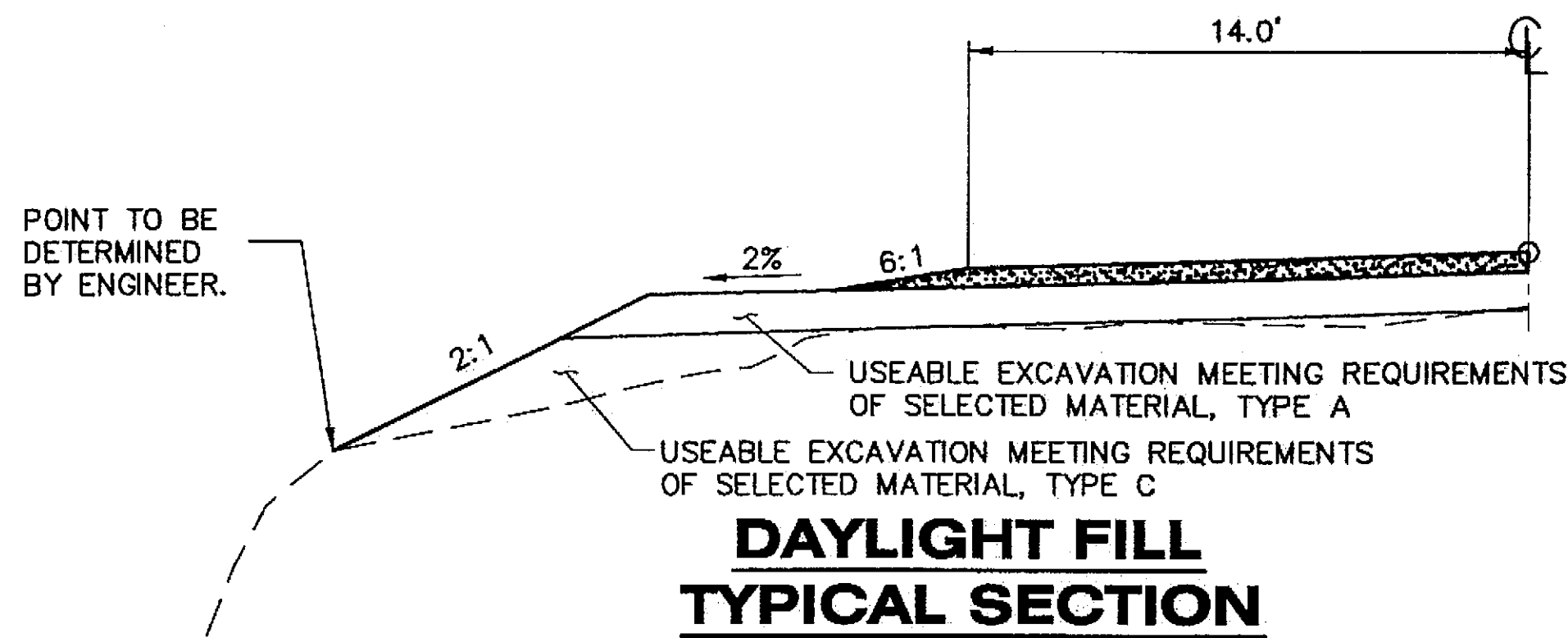
IN ROCK DELETE 12" SELECT MATERIAL. FRACTURE ROCK 12" UNDER AGGREGATE BASE.



DITCH OFFSET		
STATION	FRONT	BACK
106+25	18	38
106+50	18	38
106+75	18	38
107+00	18	38
107+25	18	32
107+50	22	24
107+75	MATCH EXISTING	

**DITCH WIDENING  
TYPICAL SECTION**

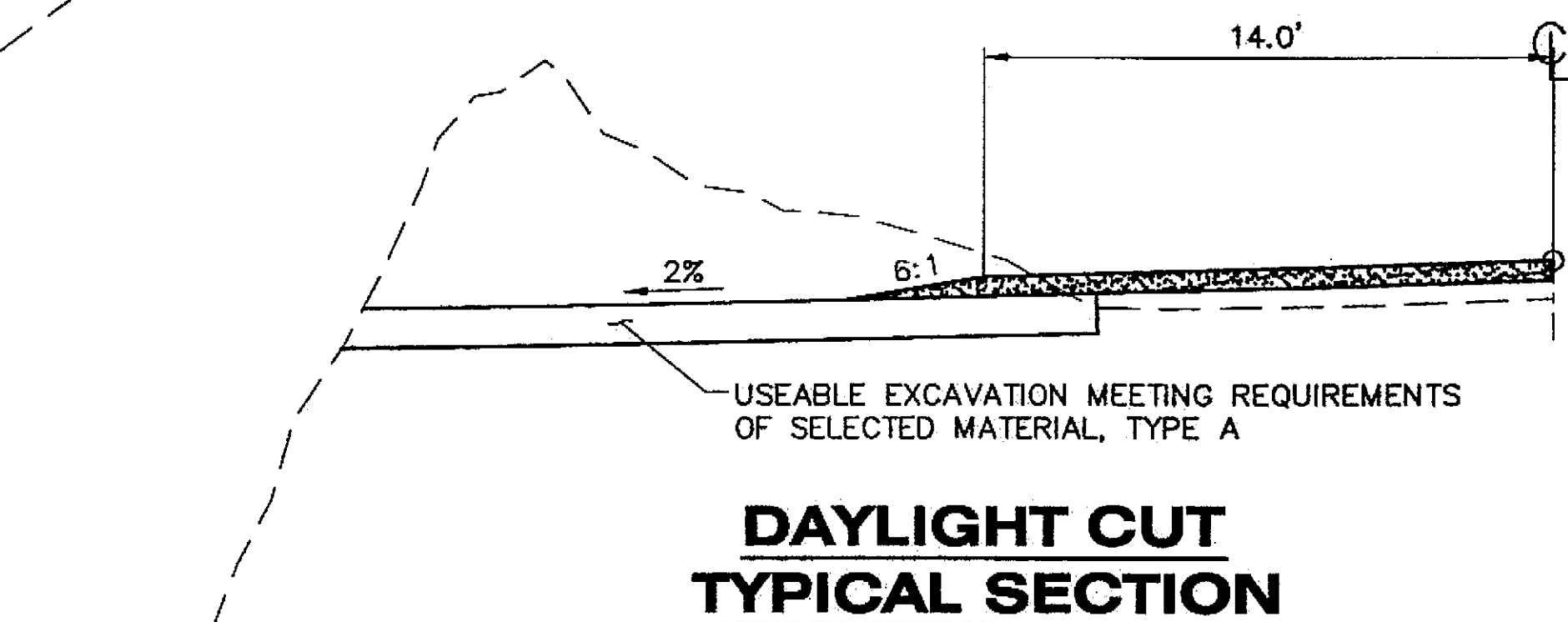
STA. "O4" 106+25 TO 107+75 (APPROX. MP 6.5)



**DAYLIGHT FILL  
TYPICAL SECTION**

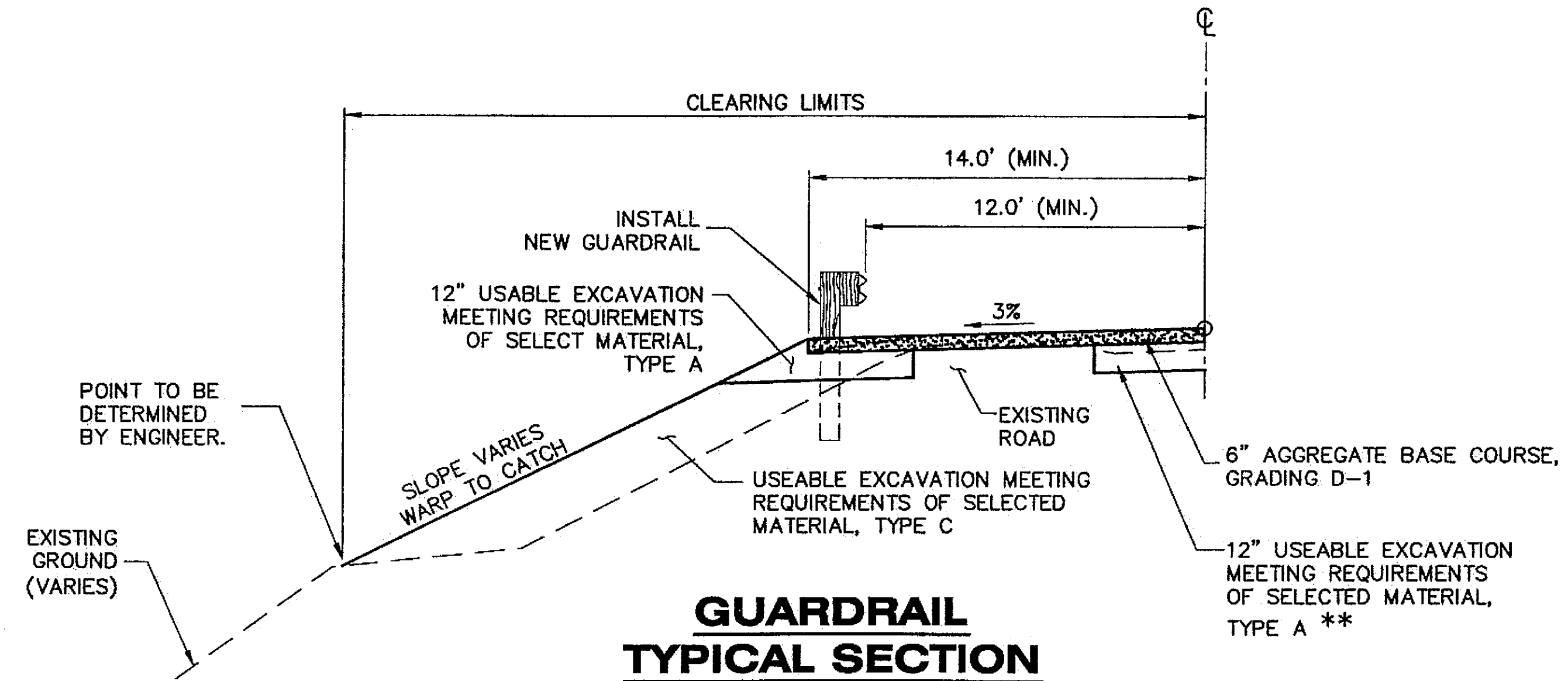
DAYLIGHT FILL SUMMARY		
Station to Station	Remarks	
"01" 17+00	"01" 19+50	
"01" 29+00	"01" 30+50	
"03" 66+00	"03" 70+00	
"05" 140+50	"05" 143+50	
"05" 155+25	"05" 157+50	GRADE AND SURFACE WITH 6" AGGREGATE BASE COURSE, GRADING D-1

**DAYLIGHT NOTE:**  
DAYLIGHT LOCATIONS ARE APPROXIMATE. CONTRACTOR MAY ELECT TO DISPOSE OF EXCESS MATERIAL AT ADDITIONAL AREA PER ENGINEER'S APPROVAL.



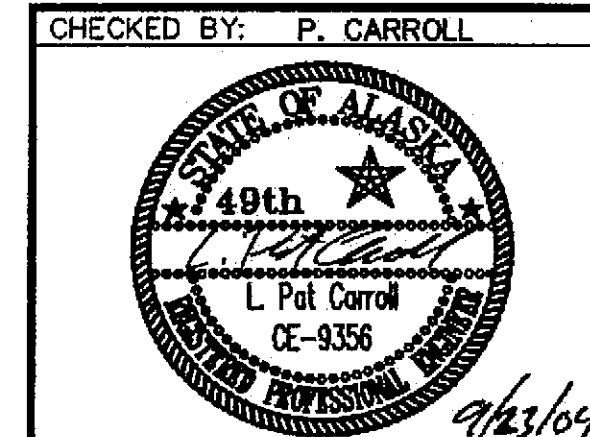
**DAYLIGHT CUT  
TYPICAL SECTION**

DAYLIGHT CUT SUMMARY		
Station to Station	Remarks	
"01" 19+50	"01" 20+50	
"01" 22+50	"01" 24+50	
"01" 26+50	"01" 27+50	
"01" 32+00	"01" 35+00	
"03" 65+00	"03" 66+00	
"03" 70+00	"03" 75+00	
"03" 77+00	"03" 80+00	
"04" 119+50	"04" 121+50	RIGHT CUT SLOPE 2:1
"05" 151+50	"05" 155+00	



**GUARDRAIL  
TYPICAL SECTION**

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION  
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

CHECKED BY: P. CARROLL  
DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

PATH: c:\sgy\68576\planset\B\_Typ.dwg  
TAB: B3 Thu, 23/Sep/04 07:32AM mllyator


**TYPICAL  
SECTIONS**

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			HHE-0997(7)	2004	B3	34

ESTIMATE OF QUANTITIES			
Item No.	Pay Item	Pay Unit	Quantity
201 (1B)	Clearing	Lump Sum	All Required
202 (1)	Removal of Structures and Obstructions	Lump Sum	All Required
203 (3)	Unclassified Excavation	Cubic Yard	<del>38000</del> 42,514.10
203 (10)	Controlled Blasting	Square Yard	<del>6200</del> 5,207.64
203 (19)	Slope Stabilization	Contingent Sum	All Required
204 (2)	Utility Trench	Linear Foot	<del>1495</del> 1720
301 (2)	Aggregate Base Course, Grading D-1	Cubic Yard	<del>3900</del> 3,929.48
603 (1)	24 Inch CSP	Linear Foot	<del>168</del> 239.3
603 (21)	24 Inch Corrugated Polyethylene Pipe	Linear Foot	<del>466</del> 482.1
606 (1)	W-Beam Guardrail	Linear Foot	<del>2790</del> 2,768.60
606 (11)	Extruder Terminal (ET-2000 )	Each	3
606 (13)	Downstream End Anchor	Each	9
611 (1A)	Riprap, Class IV	Cubic Yard	<del>9000</del> 8,768.39
611 (1B)	Riprap, Class III	Cubic Yard	<del>75</del> 13.33
615 (1)	Standard Sign	Square Foot	<del>63</del> 81.50
615 (7A)	Interpretive Sign Support, Type Masonry	Each	2
615 (7B)	Interpretive Sign Support, Type Upright	Each	1
616 (4)	Thaw Wire Installation	Each	4
618 (4)	Seeding	Lump Sum	All Required
624 (1)	Calcium Chloride	Ton	11.20
640 (1)	Mobilization and Demobilization	Lump Sum	All Required
641 (1)	Erosion and Pollution Control Administration	Lump Sum	All Required
641 (3)	Temporary Erosion & Pollution Control	Lump Sum	All Required
641 (5)	Temporary Check Dam	Each	25 5
642 (1)	Construction Surveying	Lump Sum	All Required
643 (2)	Traffic Maintenance	Lump Sum	All Required
643 (3)	Permanent Construction Signs	Lump Sum	All Required
643 (15)	Flagging	Contingent Sum	All Required
643 (25)	Traffic Control	Contingent Sum	All Required
644 (1)	Field Office	Lump Sum	All Required
644 (6)	Vehicle	Lump Sum	All Required
661 (3)	Load Center, Type 2	Each	3
<del>662 (1)</del>	<del>Telephone Utility Relocation</del>	<del>Lump Sum</del>	<del>All Required</del>
<del>663 (1)</del>	<del>Electrical Utility Relocation</del>	<del>Lump Sum</del>	<del>All Required</del>
203(20)	Hazard Rock Removal, C O 2	Lump Sum	All Required
615(3A)	Remove and Relocate Milepost, C O 1	Lump Sum	All Required

BASIS OF ESTIMATE		
Item No.	Pay Item	Quantity
201 (1B)	Clearing	Approximately 2 Acres
301 (2)	Aggregate Base Course, Grading D-1	1.96 Tons/Cubic Yard
618 (4)	Seeding	Approximately 2 Acres

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
		<b>SGY-DYEA ROAD SAFETY IMPROVEMENTS PROJECT #68576</b>			
		<b>ESTIMATE OF QUANTITIES</b>			
DESIGNED BY: M. TAYLOR		PATH: c:\Sgy\68576\Plansef\C_Est.dwg			
DRAWN BY: R. SNYDER		TAB: C1 Thu, 23/Sep/04 11:15AM rksnyder			
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.
NO.	DATE	DESCRIPTION			TOTAL SHEETS
		HHE-0997(7)		2004	C1 34

## REMOVAL OF STRUCTURES & OBSTRUCTIONS

### CULVERT REMOVAL SUMMARY

Station	Offset	Approx. Length (ft)	Size (in)	Material	Remarks
19+09	Centerline	51	24	CAP	
25+90	Centerline	48	24	CMP	
27+81	Centerline	76	18	CMP	
53+43	Centerline	28	24	CMP	
64+11	Centerline	59	24	CMP	
69+36	Centerline	36	12	Steel	
71+09	Centerline	40	18	CMP	
75+46	Centerline	36	12	CAP	
110+49	Centerline	35	18	CMP	
137+11	Centerline	34	12	CMP	
140+08	Centerline	35	8	Steel	
152+33	Centerline	32	18	CMP	
	TOTAL	551			

### POWER POLE REMOVAL

Pole No.	Station	Offset	Remarks
16B1	66+30	18.9	
16B2	67+42	24.0	
16B3	69+90	31.3	
16B4	72+67	16.9	
16B5	75+94	20.4	
16B6	76+76	26.4	

NOTE:  
SALVAGE POLES, ROCK ANCHORS, AND ASSOCIATED  
HARDWARE AND STOCKPILE FOR COLLECTION BY ALASKA  
POWER AND TELEPHONE COMPANY.

### CULVERT PIPE SUMMARY

Inlet			Outlet			CPP 24"	CSP 24"	Inlet Catch Basin	Remarks
Station	Offset Right	Invert (ft)	Station	Offset Left	Invert (ft)				
"01" 19+10	21.3	275.2	"01" 19+00	33.0 25.7	274.2	54.4 47.1			
<del>"01" 23+34</del>	<del>19.9</del>	<del>266.6</del>	<del>"01" 23+34</del>	<del>40.0</del>	<del>264.3</del>	<del>64.4</del>		X	DELETED
"01" 25+90	19.4	259.7	"01" 25+90	22.8 21.6	258.8	42.2 47.0		X	
"01" 27+81	22.1	244.5	"01" 27+96	30.5 32.7	243.4	52.7 55.0			
"02" 53+43	17.5	38.3	"02" 53+43	23.6 32.9	36.9	41.2 50.5	X		LOAD CENTER, THAW WIRE
"02" 55+75	17.8	27.1	"02" 55+75	23.1 29.7	26.3	40.8 47.6	X		
"03" 64+10	17.6	37.9	"03" 64+12	21.1 21.9	35.9	38.8 39.6	X		LOAD CENTER, THAW WIRE
"03" 71+08	16.9	77.5	"03" 71+22	28.1 32.9	74.0	45.2 50.0	X		LOAD CENTER, THAW WIRE
"03" 75+25	17.5	89.9	"03" 75+25	22.6 38.0	88.6	40.1 55.5	X		
"04" 110+49	17.7	103.2	"04" 110+49	22.3 23.7	102.4	40.1 41.4	X		
"05" 137+11	19.6	48.0	"05" 137+11	25.2 32.6	47.1	44.8 52.2	X		
"05" 139+74	17.7	46.9	"05" 139+74	24.4 27.5	46.0	43.1 47.2	X		
"05" 144+72	17.7	63.5	"05" 144+72	25.1 25.6	62.7	43.2 43.7	X		
"05" 152+24	17.6	68.2	"05" 152+21	22.7 40.3	67.3	42.5 49.6	X		REMOTE THAW WIRE
"01" 17+00	14.0	-	"01" 18+20	14.0 RT		39.6			Drive way
"01" 25+18	37.0	-	"01" 25+04	29.0 RT		45.4			DUMP
			TOTAL			482.1 <del>466</del>	239.3 <del>168</del>		

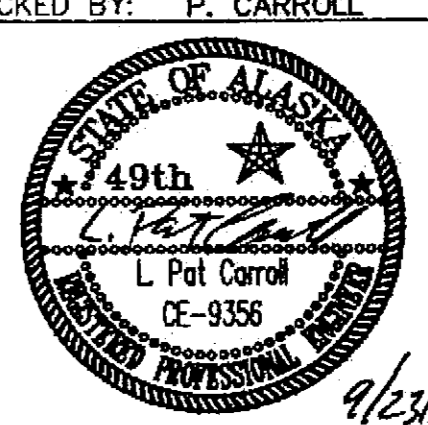
- NOTE:  
1. SEE J SHEETS FOR INLET CATCH BASIN DETAIL.  
2. CULVERT STATION, OFFSET, AND INVERT ELEVATIONS ARE APPROXIMATE AND SUBJECT TO MODIFICATION BY THE ENGINEER.

### INTERPRETIVE SIGN INSTALLATION

Station	Offset	Qty	Type
156+25	Left	2	Masonry
Existing Interpretive Pullout; MP 9	Left	1	Upright

NOTE:  
APPROXIMATE STATIONING AND OFFSET ONLY.  
FINAL LOCATION TO BE DETERMINED BY THE ENGINEER.

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: P. CARROLL				STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION <b>SGY-DYEA ROAD                  SAFETY IMPROVEMENTS                  PROJECT #68576</b>			
DESIGNED BY: M. TAYLOR						<b>MISCELLANEOUS                  SUMMARIES</b>	
DRAWN BY: R. SNYDER		PATH: G:\Sgy\68576\PlanSet\0_Sums.dwg TAB: D1 Thu, 23/Sep/04 08:05AM mltaylor		PROJECT DESIGNATION	YEAR		
				HHE-0997(7)	2004	D1	34



**GUARDRAIL INSTALLATION SUMMARY**

Station to Station	Offset	Run (ft)	End Treatment		Remarks
			ET-2000	DEA	
"02" 51+60.68 TO 55+62.73	LEFT	402.114.7	1	1	
"03" 64+40.45 TO 72+50.39	LEFT	830.808.3		2	
"04" 119+25.30 TO 121+10.22	LEFT	185.189.5	1	1	
"05" 152+60.67 TO 156+60.37	LEFT	340.333.3		2	
"05" 157+40.41 TO 163+20.02	LEFT	580.564.5		2	
"06" 176+00.04 TO 180+50.61	LEFT	450.458.3	1	1	
	TOTAL	2787.2768.6	3	9	

**GUARDRAIL NOTES:**

1. GUARDRAIL LOCATIONS ARE APPROXIMATE AND FINAL LOCATION WILL BE DETERMINED BY THE ENGINEER.

**SIGN SUMMARY**

Sign No.	Station	Offset	Type	Facing Traffic	Sign Legend	Size (")		Area (Sq Ft)	Post Size	Post Type	Remarks
						Wd	Ht				
1	53+65	16' RIGHT	W5-1	WB	ROAD NARROWS	36	36	9.0	2.5"	pst	
2	54+05	16' LEFT	W5-1	EB	ROAD NARROWS	36	36	9.0	2.5"	pst	
3	145+50	16' RIGHT	W5-1	WB	ROAD NARROWS	36	36	9.0	2.5"	pst	
4	153+00	16' LEFT	W5-1	EB	ROAD NARROWS	36	36	9.0	2.5"	pst	
5	160+00	16' RIGHT	W5-1	WB	ROAD NARROWS	36	36	9.0	2.5"	pst	
6	178+86	22' RIGHT	W5-1	WB	ROAD NARROWS	36	36	9.0	2.5"	pst	
7	177+75	16' LEFT	W5-1	EB	ROAD NARROWS	36	36	9.0	2.5"	pst	
					TOTAL SQUARE FT.			6381.5			

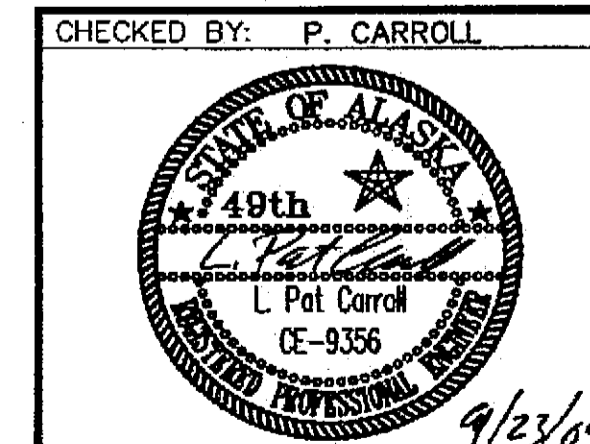
**SIGNING NOTES:**

1. FOR THE PURPOSES OF THIS TABLE, DYEA ROAD IS CONSIDERED AS RUNNING WEST TOWARD DYEA (WB) OR EAST TOWARD SKAGWAY (EB).
2. SIGN LOCATIONS ARE APPROXIMATE AND FINAL LOCATION WILL BE DETERMINED BY THE ENGINEER.

**SIGN SUMMARY CONT'D.**

SIGN NO.	STATION	Offset	TYPE	FACING TRAFFIC	SIGN LEGEND	SIZE (")		AREA (SQ/FT)	POST SIZE	POST TYPE	
						WD	HT				
8	17+40	16' RIGHT	W16-B	WB	ROCKS	30	30	6.25	2.5"	pst	
9	17+40	16' RIGHT	W13-1A	WB	NEXT 4 MI	30	30	6.25	2.5"	pst	
10	179+50	22' RIGHT	R7-101R	NB	NO PARKING	12	18	1.5	2.5"	pst	
11	178+20	22' RIGHT	R7-101L	NB	NO PARKING	12	18	1.5	2.5"	pst	
12	147+48	12' RIGHT	OM-3R	WB	OBJECT MARKER	12	36	3.0	2.5"	pst	

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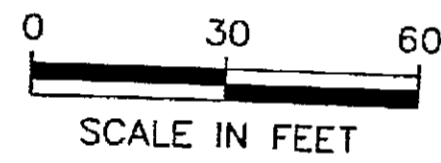
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION  
**SGY-DYEA ROAD SAFETY IMPROVEMENTS PROJECT #68576**

**MISCELLANEOUS SUMMARIES**

DESIGNED BY: M. TAYLOR	PROJECT DESIGNATION: HHE-0997(7)	YEAR: 2004	SHEET NO: D2	TOTAL SHEETS: 34
DRAWN BY: R. SNYDER	PATH: Q:\Sgy\68576\PlanSet\D_Sums.dwg	DATE: Thu, 23/Sep/04 08:06AM		
TAB: D2	REVISIONS			
	NO. DATE DESCRIPTION			

**B.O.P.**  
 BEGIN CONSTRUCTION  
 "01" STA. 17+00.00  
 N 102,082.4049  
 E 48,356.9515  
 MATCH EXISTING

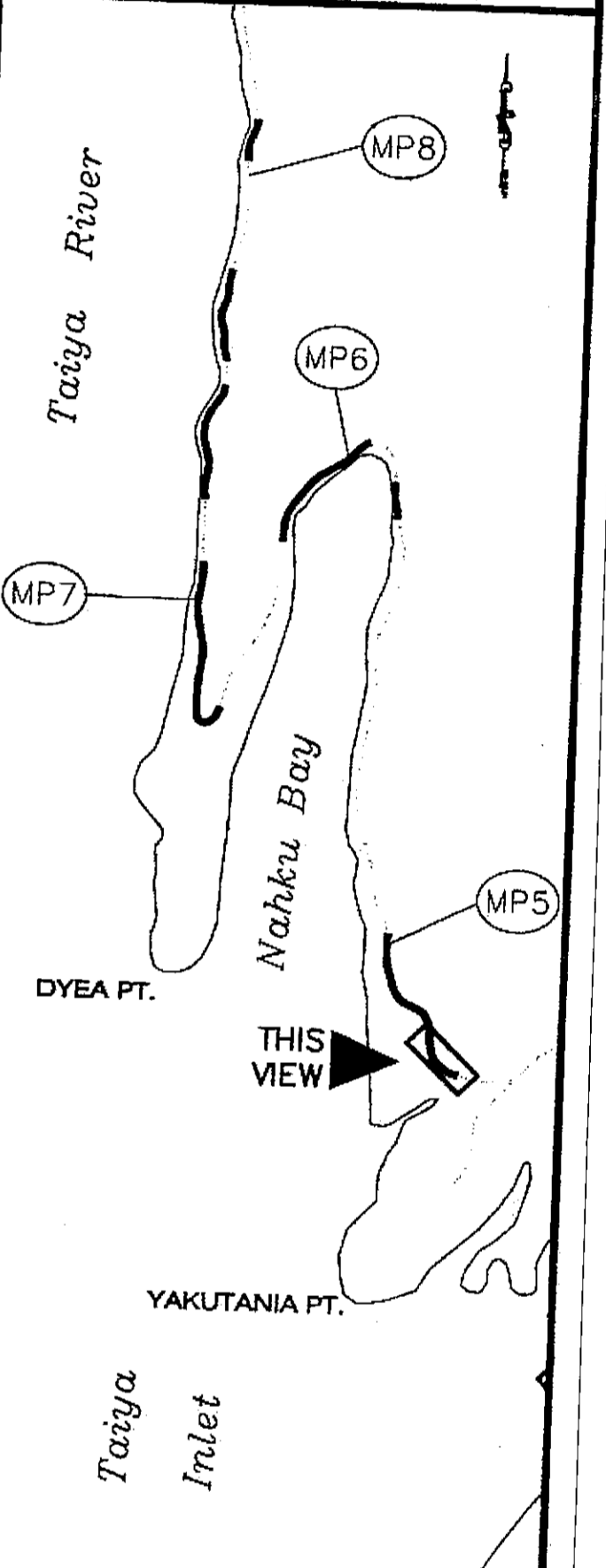
"01" LINE  
 CURVE DATA  
 R=370.00  
 L=462.75  
 T=267.14  
 A=71°39'30"  
 E=5.0%  
 BST=MATCH EXISTING  
 BFS=17+58.11  
 EFS=21+92.20  
 EST=23+06.20



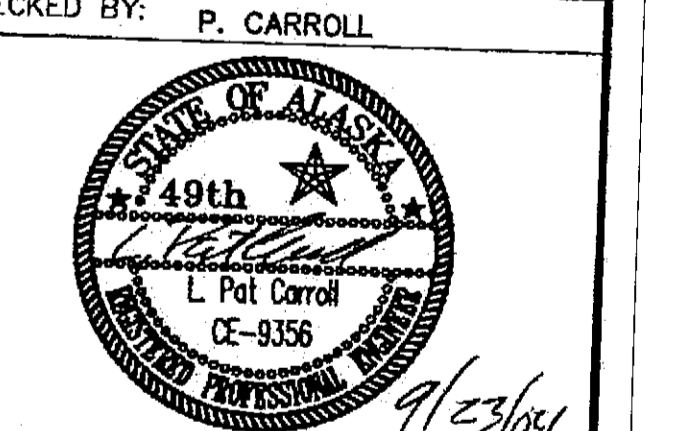
**"01" LINE  
 PLAN**

PATH:  
 C:\Documents and Settings\robertson\My Docu  
 Thu, 23/Sep/04 08:49AM irobertson  
 TAB: F1

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR  
 DRAWN BY: R. SNYDER

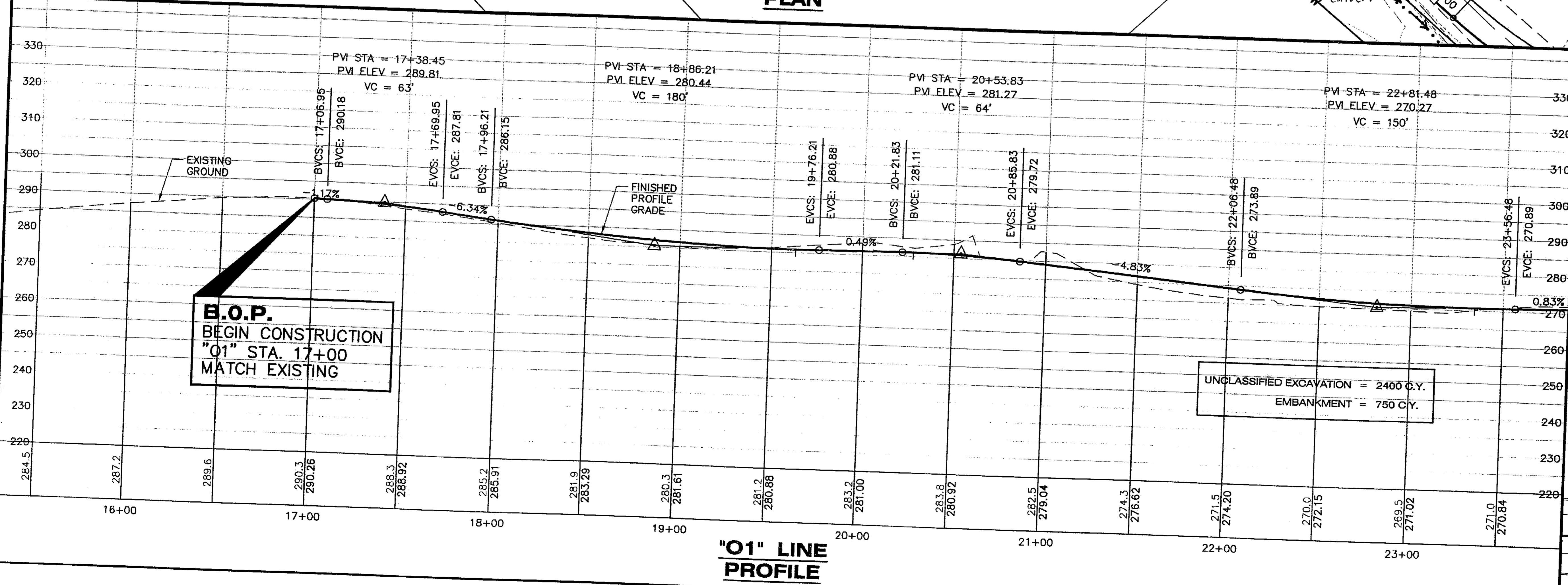
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING  
 SERVICES DIVISION

**SGY-DYEA ROAD  
 SAFETY IMPROVEMENTS  
 PROJECT #68576**

**"01" LINE  
 PLAN & PROFILE**

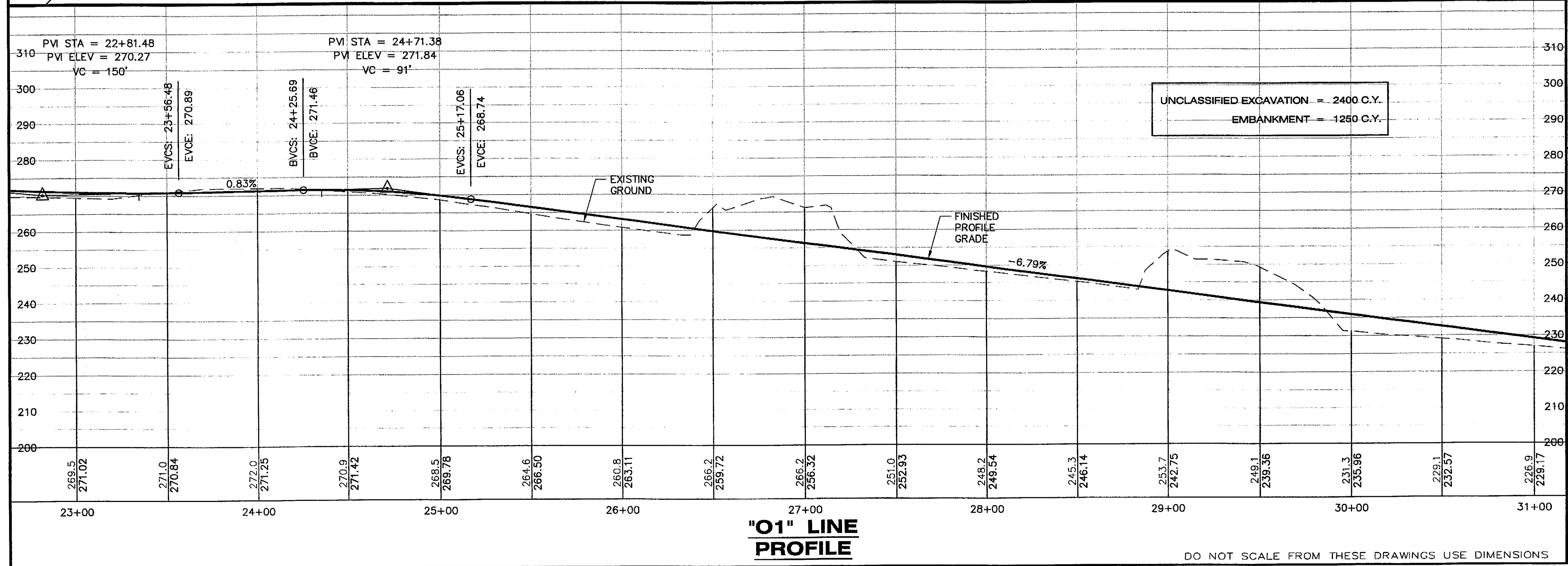
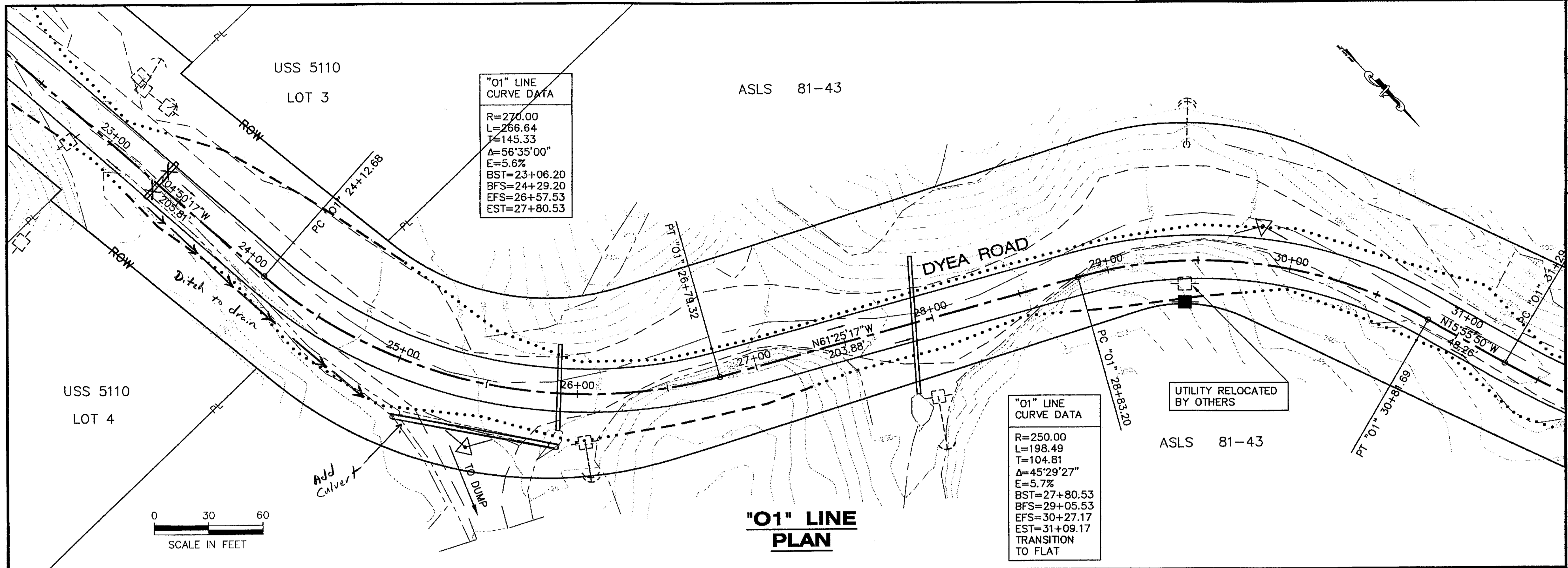
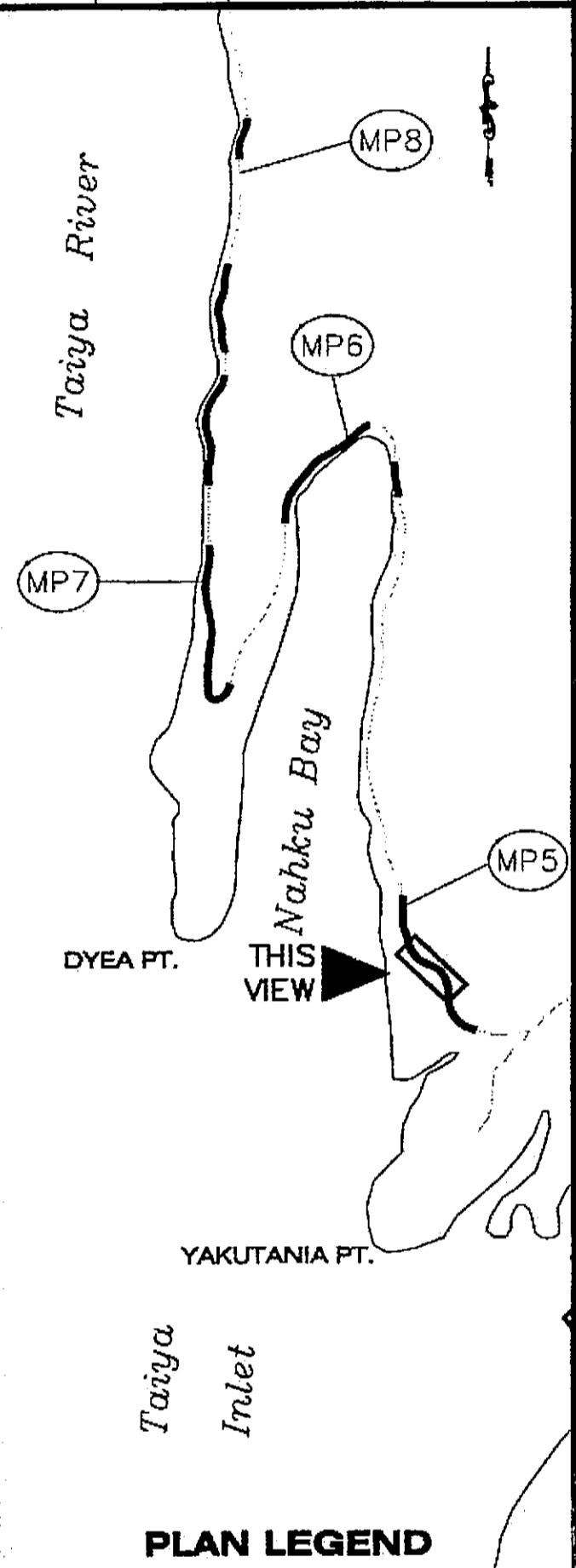
PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>F1</b>	<b>34</b>



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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

**SGY-DYE ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**"01" LINE  
PLAN & PROFILE**

PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>F2</b>	<b>34</b>

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

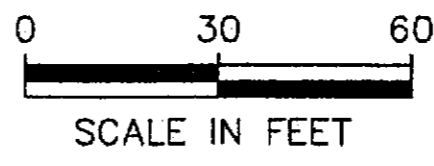
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R=500.00  
L=100.52  
T=50.43  
Δ=11°31'10"  
E=4.3%  
BST=31+09.17  
TRANSITION FROM FLAT  
BFS/EFS=31+39.82  
EST=32+30.47  
TRANSITION TO FLAT

ASLS 81-43

"01" LINE  
CURVE DATA  
R=500.00  
L=261.96  
T=134.06  
Δ=30°01'05"  
E=4.3%  
BST=32+30.47  
TRANSITION FROM FLAT  
BFS=32+92.47  
EFS=34+80.43  
EST=35+85.43

ASLS 81-43

**"01" LINE  
PLAN**



END CONSTRUCTION  
"01" STA. 37+44.87  
N 103,733.5941  
E 47,479.8602  
MATCH EXISTING

TRANSITION  
SEE-DETAIL  
SHEET J1

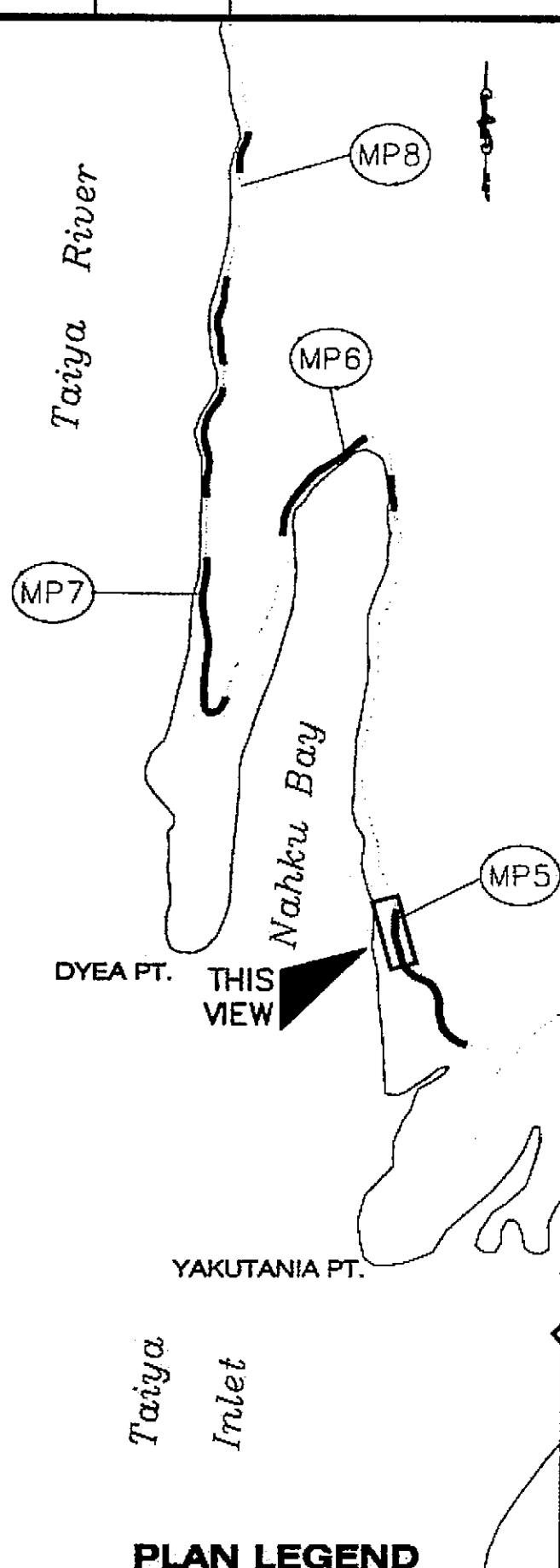
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C:\Documents and Settings\Irobertson\My Docu  
Thu, 23/Sep/04 08:50AM Irobertson  
TAB: F3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR

DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

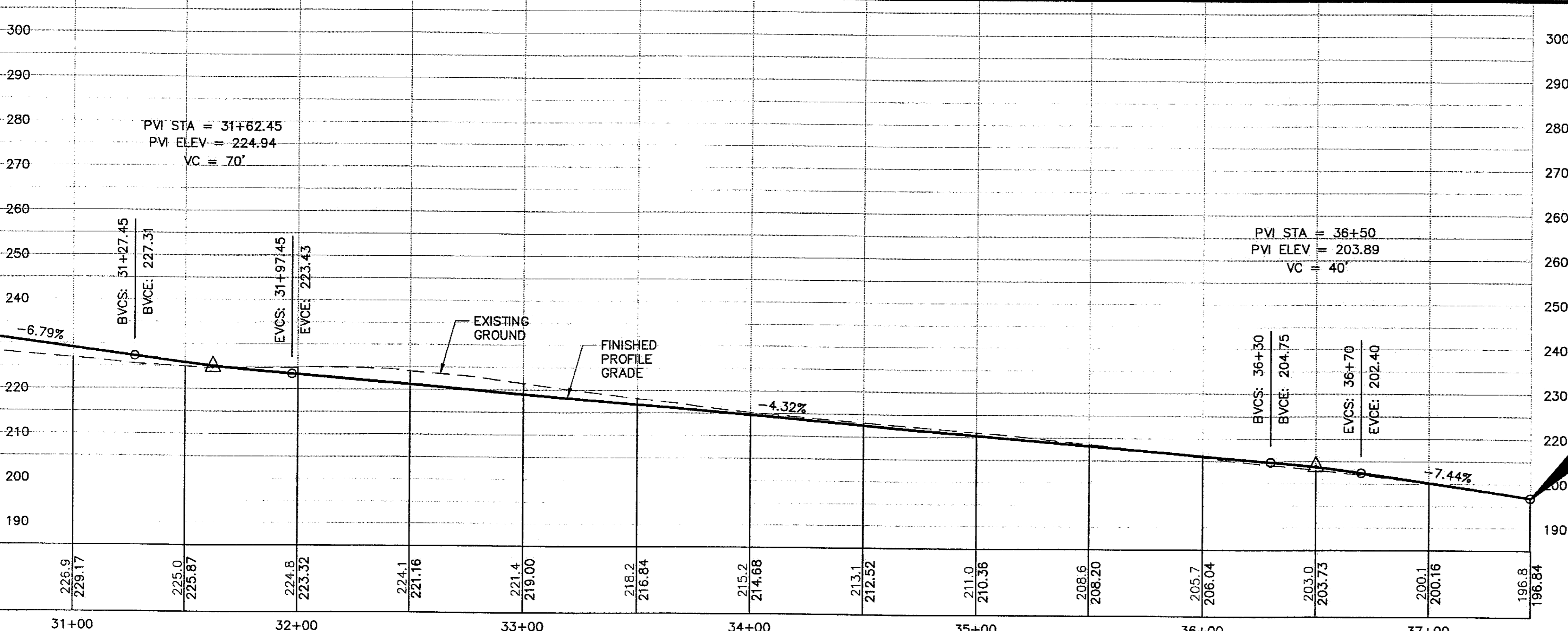
**"01" LINE  
PLAN & PROFILE**

PROJECT DESIGNATION

**HHE-0997(7)**

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
<b>F3</b>	<b>34</b>



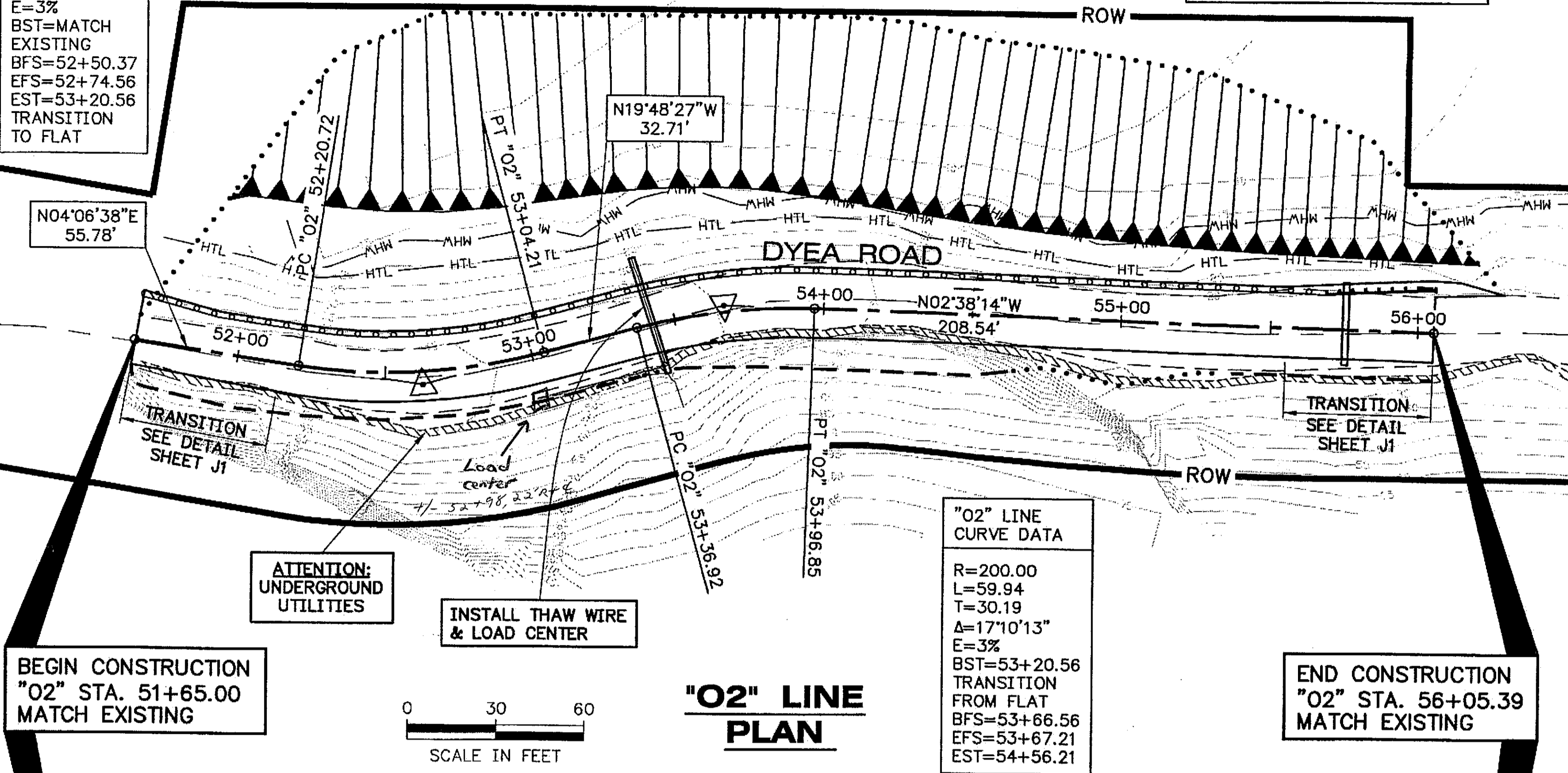
END CONSTRUCTION  
"01" STA. 37+44.87  
MATCH EXISTING

**"01" LINE  
PROFILE**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

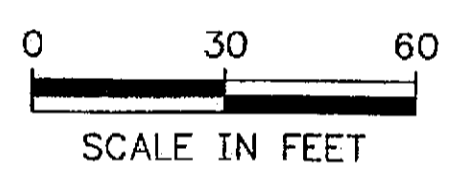
"02" LINE CURVE DATA  
 R=200.00  
 L=83.49  
 T=42.36  
 Δ=23°55'06"  
 E=3%  
 BST=MATCH EXISTING  
 BFS=52+50.37  
 EFS=52+74.56  
 EST=53+20.56  
 TRANSITION TO FLAT

NOTE:  
 IN WATER WORK SUBJECT TO ENVIRONMENTAL COMMITMENTS AND PERMITS LOCATED IN APPENDIX B OF THE SPECIAL PROVISIONS.



BEGIN CONSTRUCTION "02" STA. 51+65.00 MATCH EXISTING

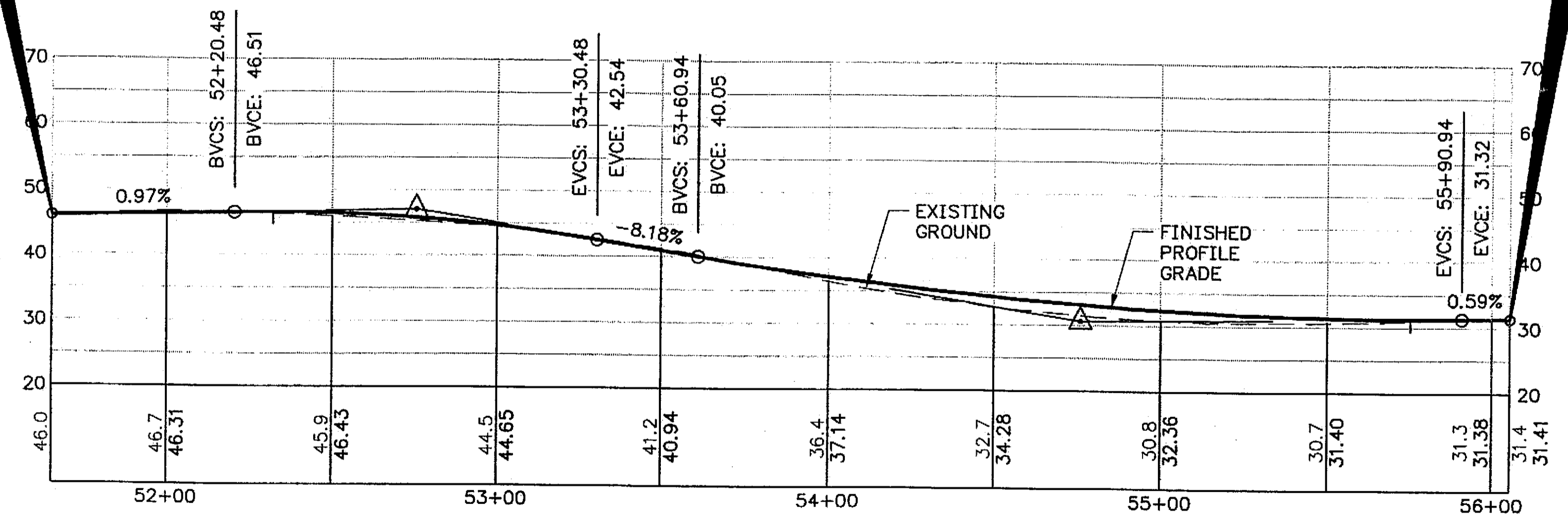
END CONSTRUCTION "02" STA. 56+05.39 MATCH EXISTING



UNCLASSIFIED EXCAVATION = 800 C.Y.  
 EMBANKMENT = 8250 C.Y.  
 RIPRAP = 4200 C.Y.

PVI STA = 52+75.48  
 PVI ELEV = 47.04  
 VC = 110'

PVI STA = 54+75.94  
 PVI ELEV = 30.64  
 VC = 230'



BEGIN CONSTRUCTION POC "03" STA. 64+00.00 MATCH EXISTING

INSTALL THAW WIRE & LOAD CENTER

TRANSITION SEE DETAIL SHEET JI

"01" LINE CURVE DATA  
 R=200.00  
 L=94.90  
 T=48.36  
 Δ=27°11'14"  
 E=6%  
 BST=MATCH EXISTING  
 BFS=MATCH EXISTING  
 EFS=64+77.90  
 EST=66+05.90

ATTENTION: UNDERGROUND UTILITIES

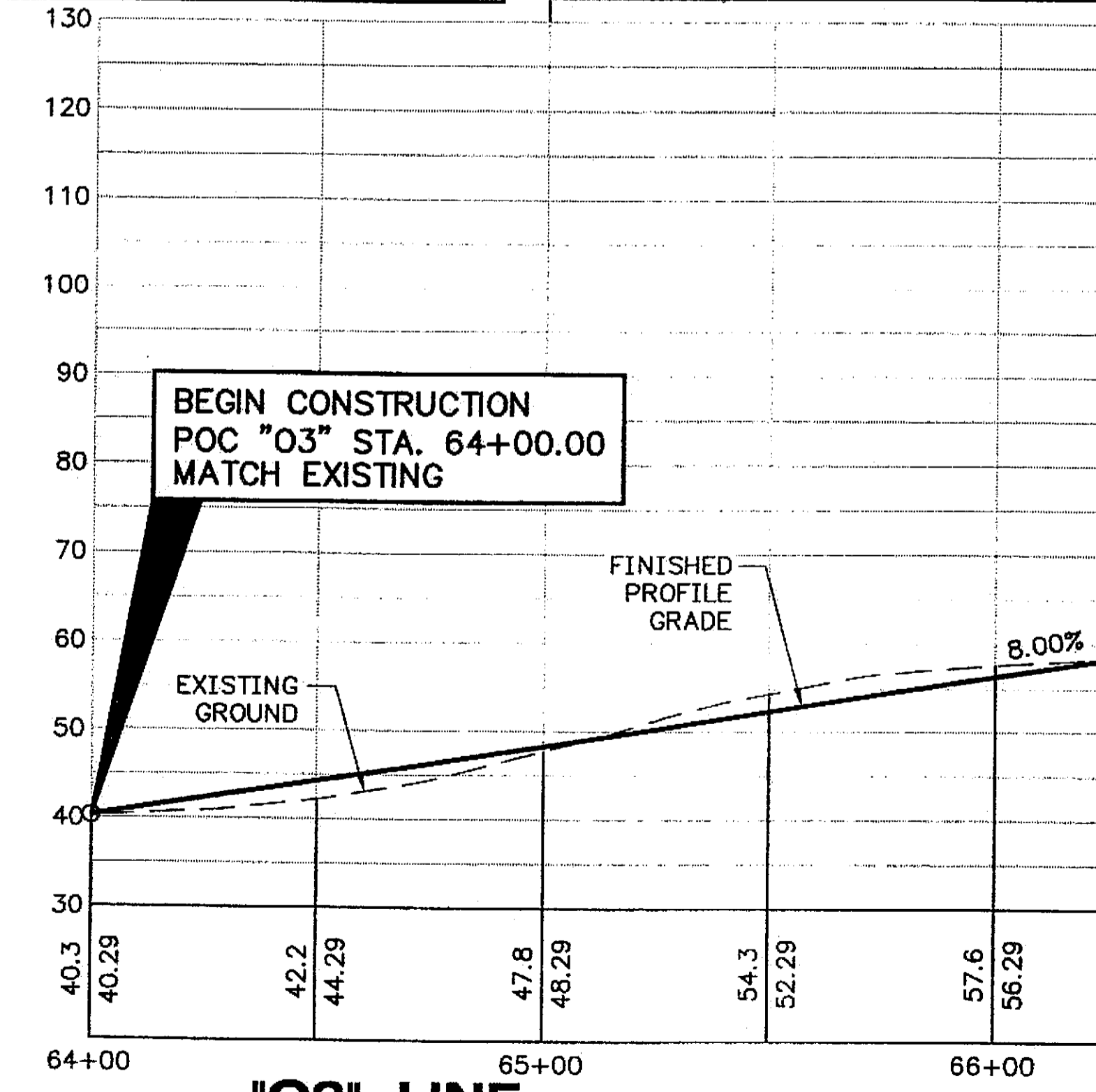
TELEPHONE PEDESTAL BY OTHERS

USS 3307

**"03" LINE PLAN**

UNCLASSIFIED EXCAVATION = 300 C.Y.  
 EMBANKMENT = 150 C.Y.

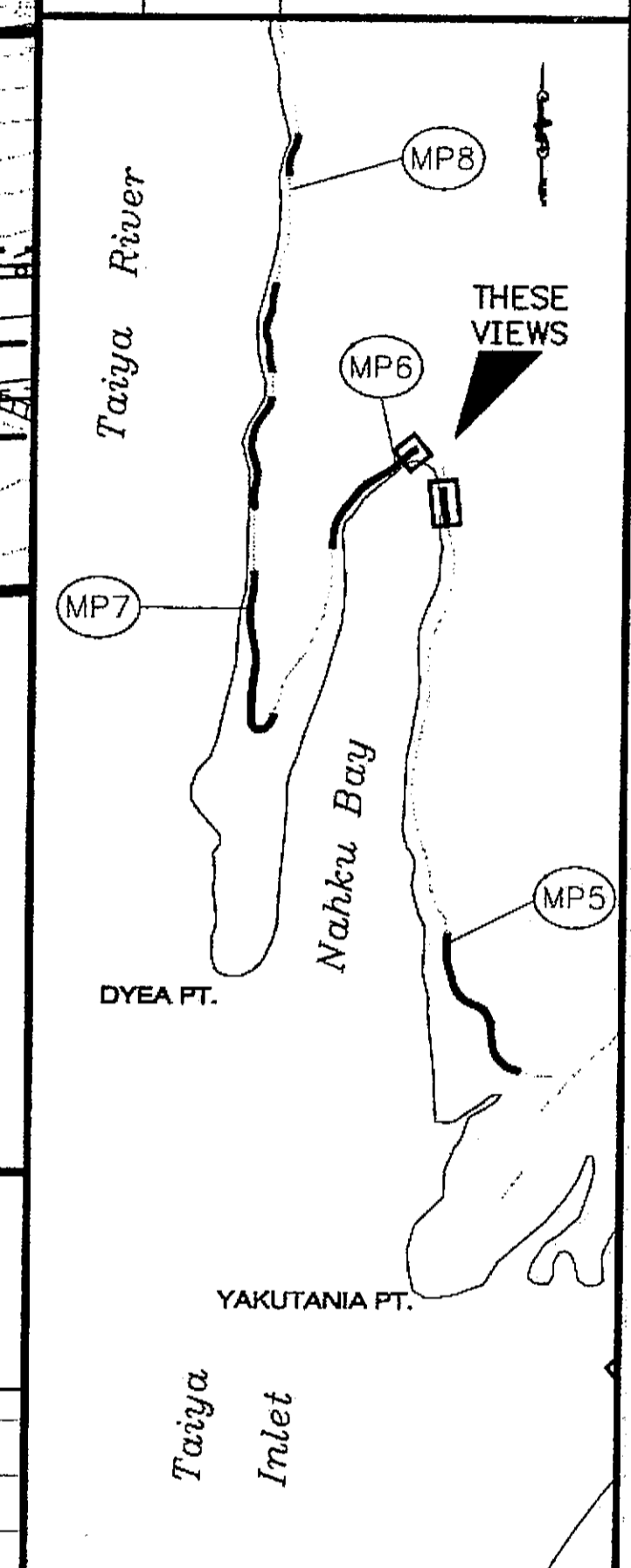
Utility TRENCH



BEGIN CONSTRUCTION POC "03" STA. 64+00.00 MATCH EXISTING

PATH:  
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 Thu, 23/Sep/04 11:19AM rksnyder  
 TAB: F4

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



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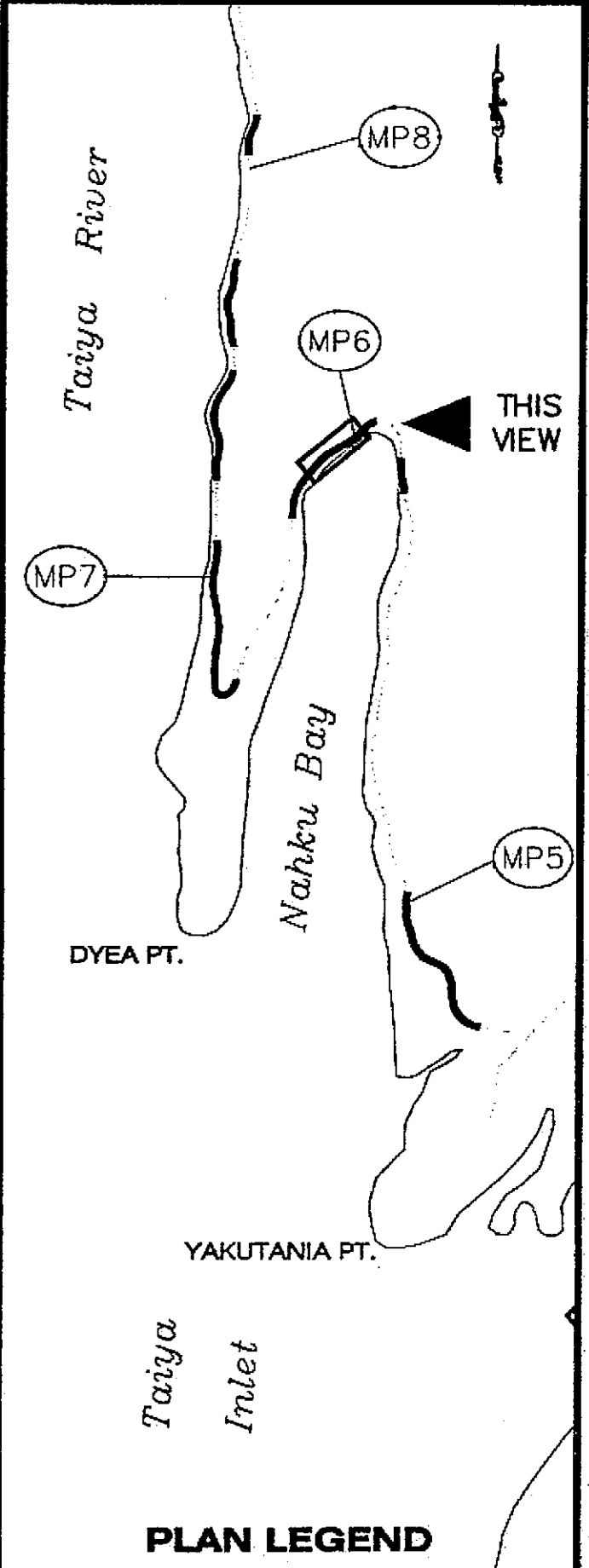
DESIGNED BY: M. TAYLOR  
 DRAWN BY: R. SNYDER  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION  
**SGY-DYEA ROAD SAFETY IMPROVEMENTS PROJECT #68576**

**"02" & "03" LINE PLAN & PROFILE**

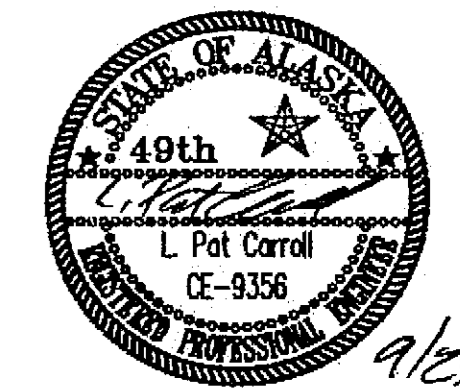
PROJECT DESIGNATION	
HHE-0997(7)	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F4	34

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL

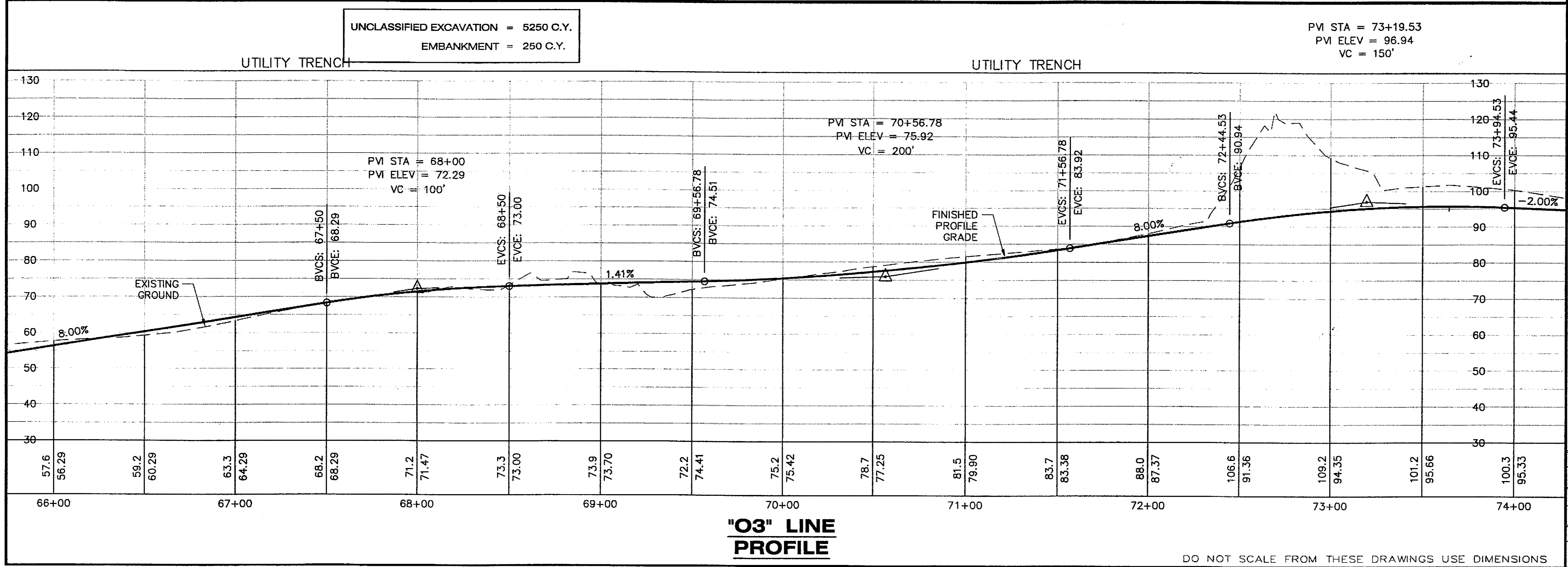
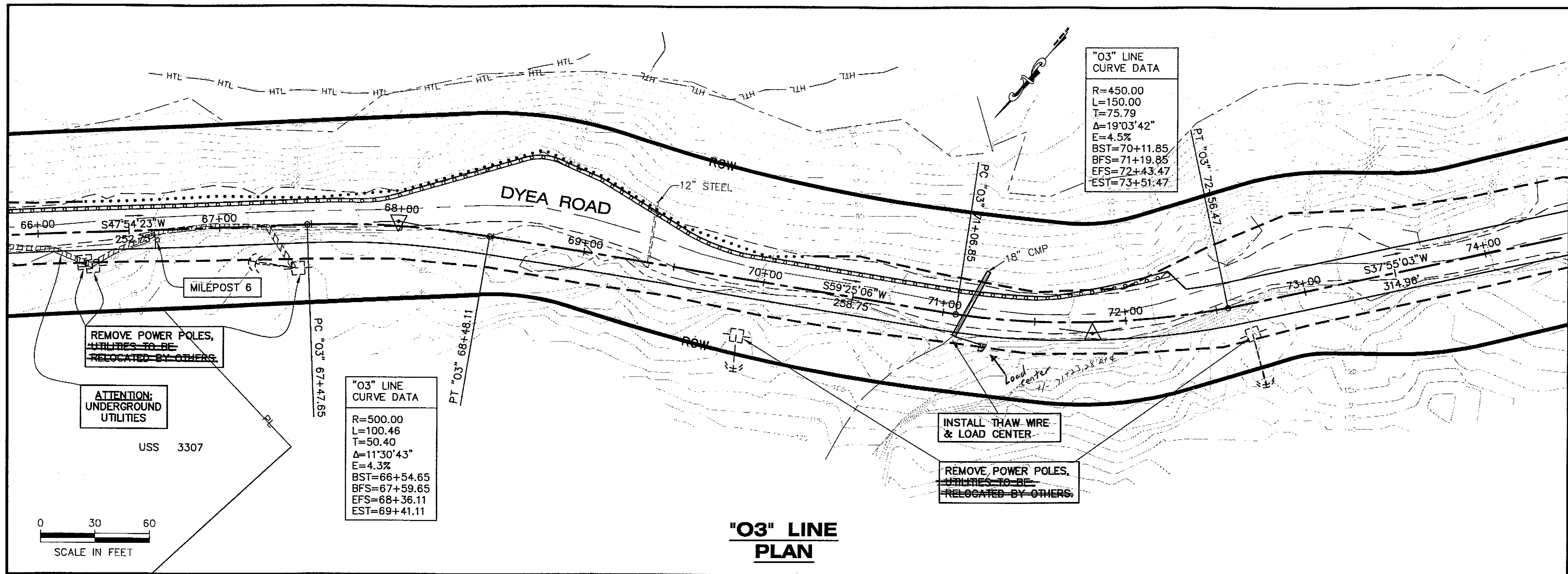


DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION  
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

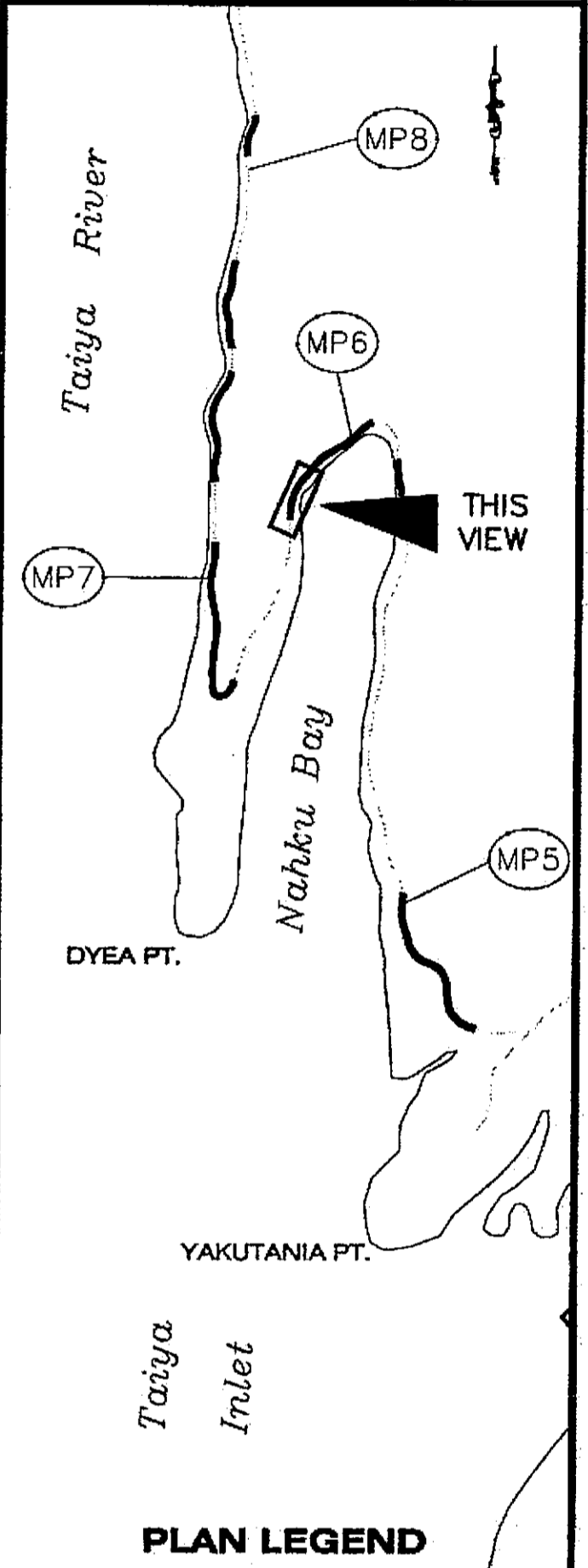
**"O3" LINE  
PLAN & PROFILE**

PROJECT DESIGNATION	
HHE-0997(7)	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F5	34

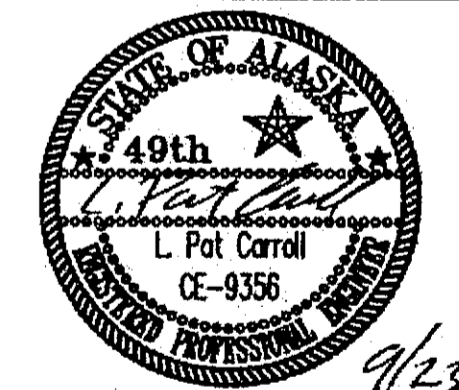


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR

DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

**SGY-DYEYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**"O3" LINE  
PLAN & PROFILE**

PROJECT DESIGNATION

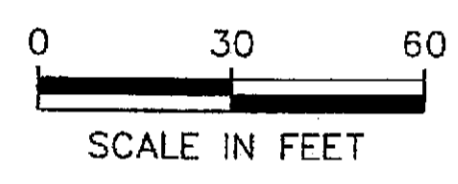
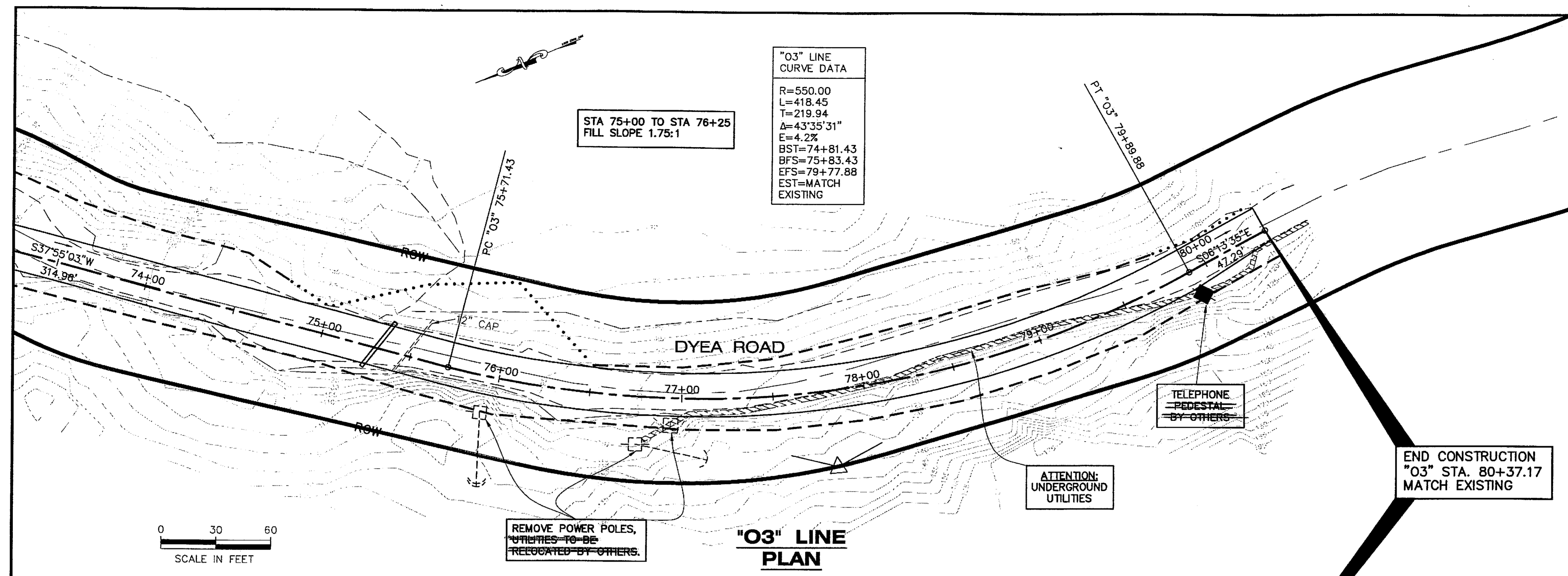
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
<b>F6</b>	<b>34</b>

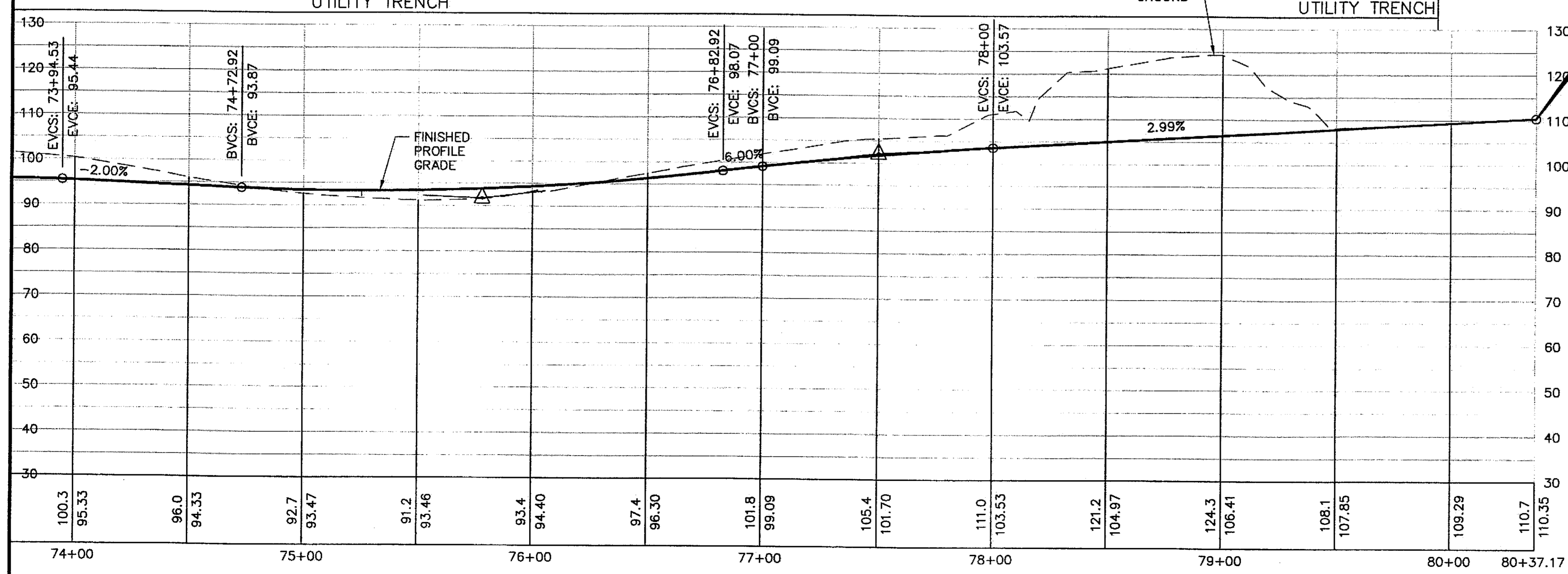
**"O3" LINE  
CURVE DATA**  
R=550.00  
L=418.45  
T=219.94  
A=43°35'31"  
E=4.2%  
BST=74+81.43  
BFS=75+83.43  
EFS=79+77.88  
EST=MATCH  
EXISTING

STA 75+00 TO STA 76+25  
FILL SLOPE 1.75:1



PVI STA = 75+77.92  
PVI ELEV = 91.77  
VC = 210'

PVI STA = 77+50  
PVI ELEV = 102.09  
VC = 100'



UNCLASSIFIED EXCAVATION = 4500 C.Y.  
EMBANKMENT = 450 C.Y.

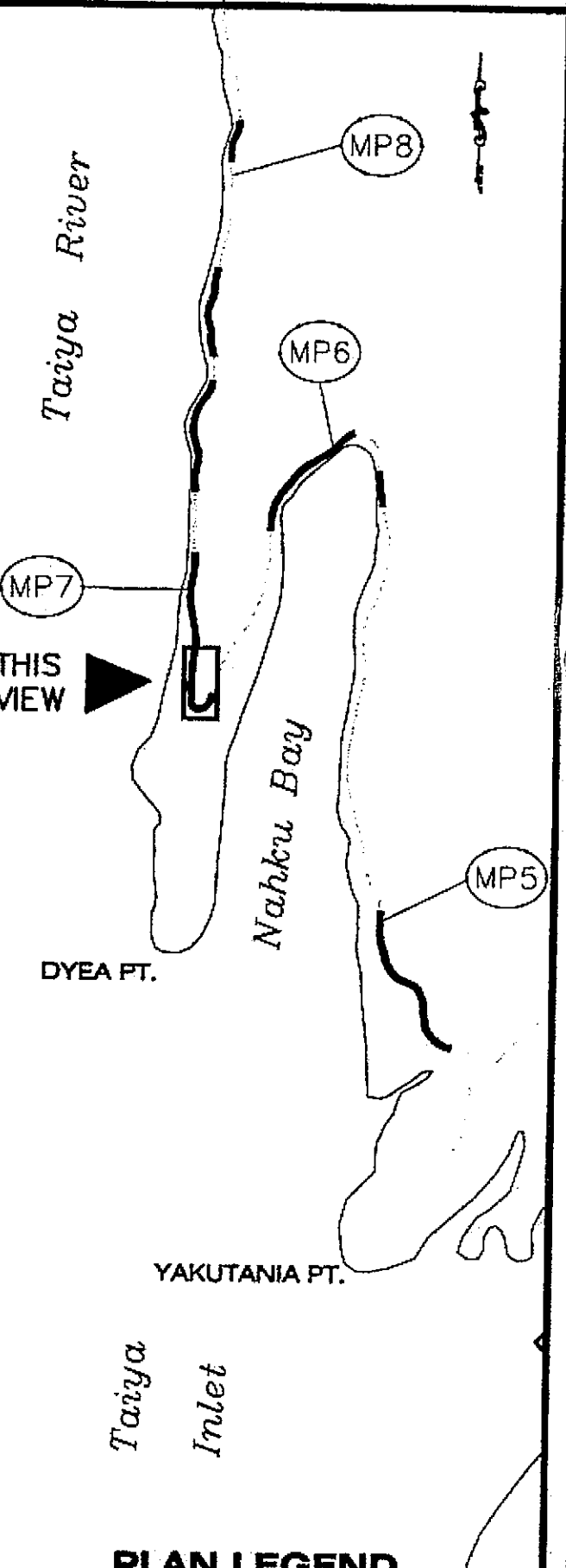
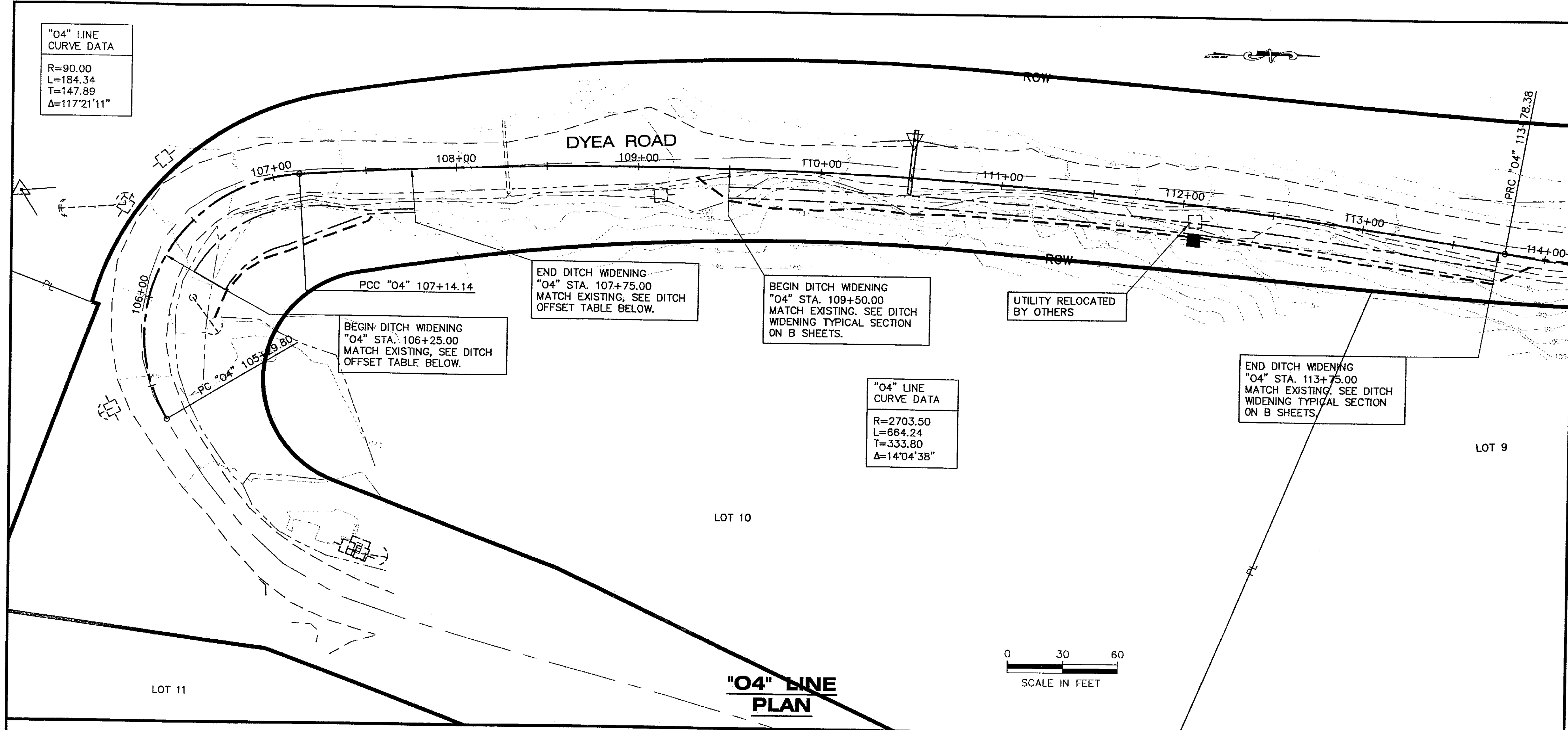
**"O3" LINE  
PROFILE**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

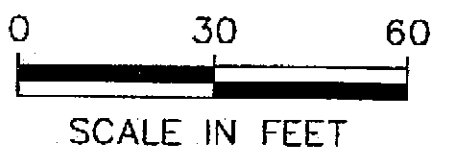
"O4" LINE  
CURVE DATA  
R=90.00  
L=184.34  
T=147.89  
Δ=117°21'11"

PATH:  
C:\Documents and Settings\roberson\My Docu  
Thu, 23/Sep/04 08:52AM roberson  
TAB: F7

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



"O4" LINE  
CURVE DATA  
R=2703.50  
L=664.24  
T=333.80  
Δ=14°04'38"



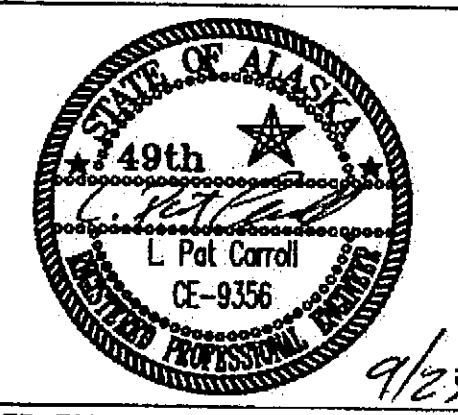
**"O4" LINE  
PLAN**

**DITCH OFFSET TABLE**

STATION	FRONT	BACK
106+25	18	38
106+50	18	38
106+75	18	38
107+00	18	38
107+25	18	32
107+50	22	24
107+75	MATCH EXISTING	

UNCLASSIFIED EXCAVATION = 1500 C.Y.  
EMBANKMENT = 50 C.Y.

CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**"O4" LINE  
PLAN & PROFILE**

PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
<b>ALASKA</b>	<b>2004</b>
SHEET NUMBER	TOTAL SHEETS
<b>F7</b>	<b>34</b>

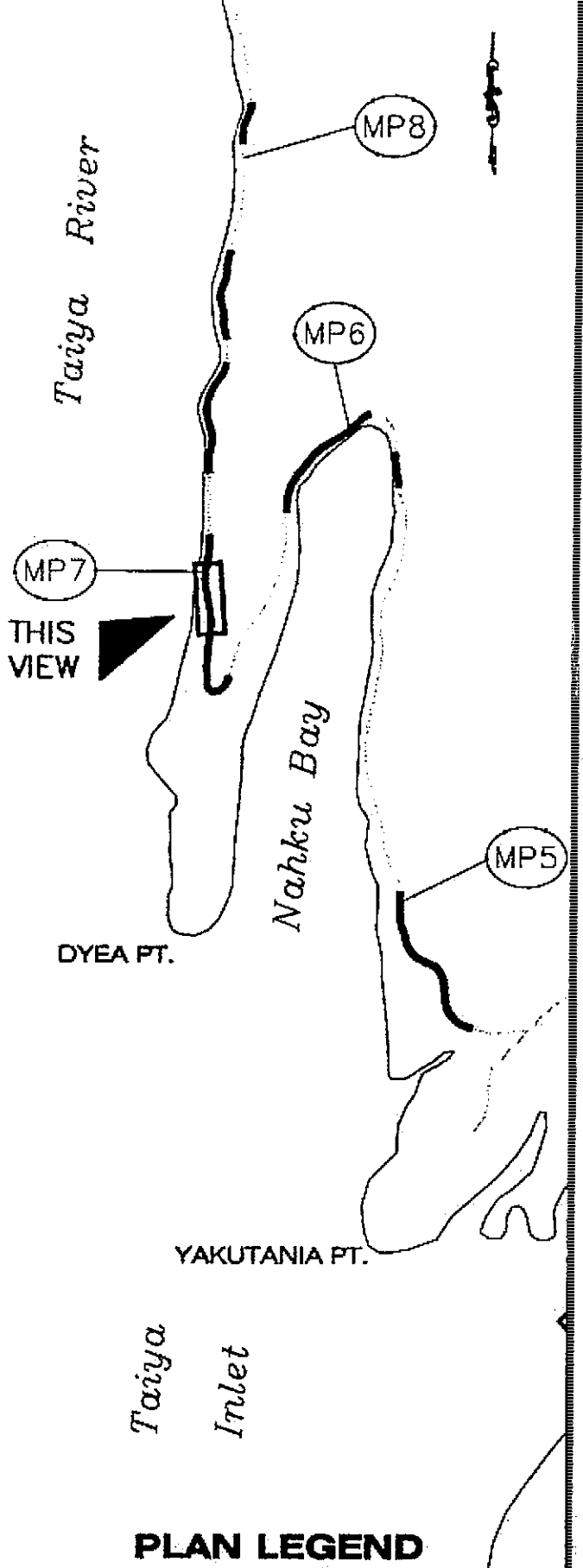


ADDENDUM NUMBER

ATTACHMENT NUMBER

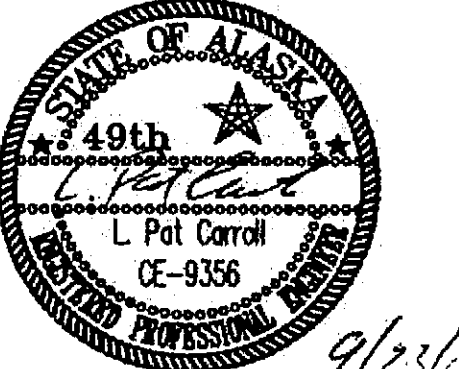
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR

DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION  
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

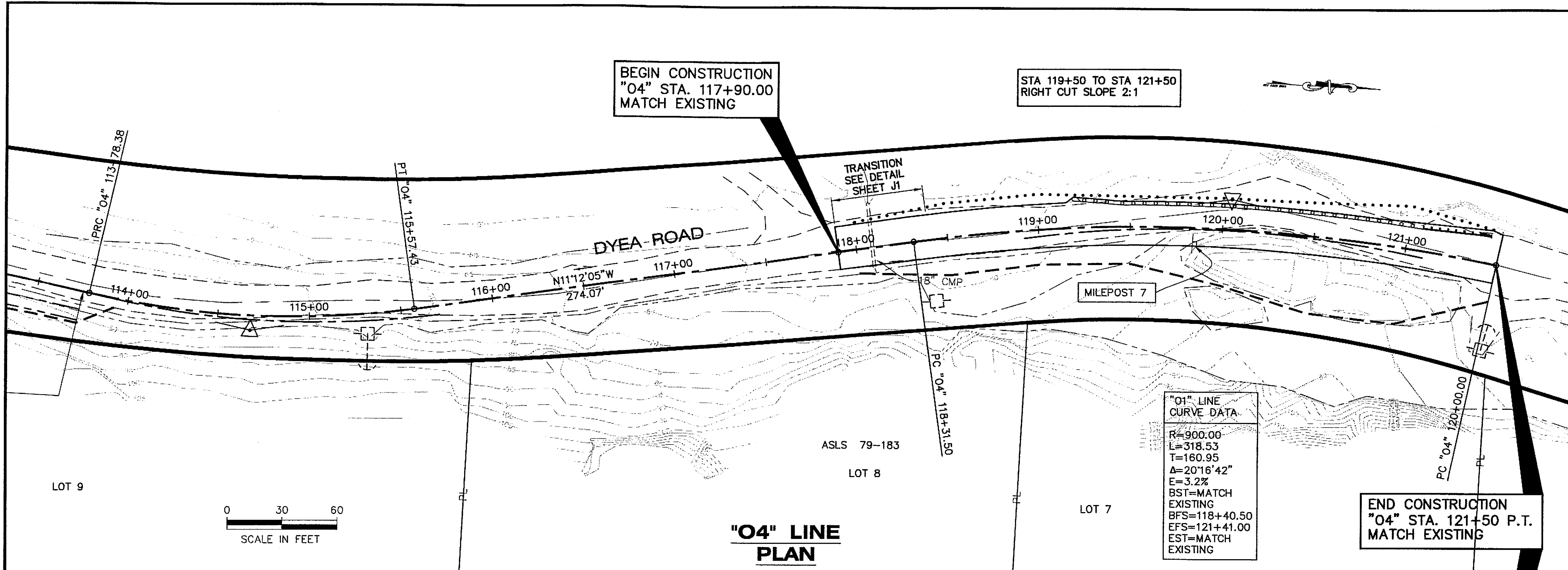
**"O4" LINE  
PLAN & PROFILE**

PROJECT DESIGNATION

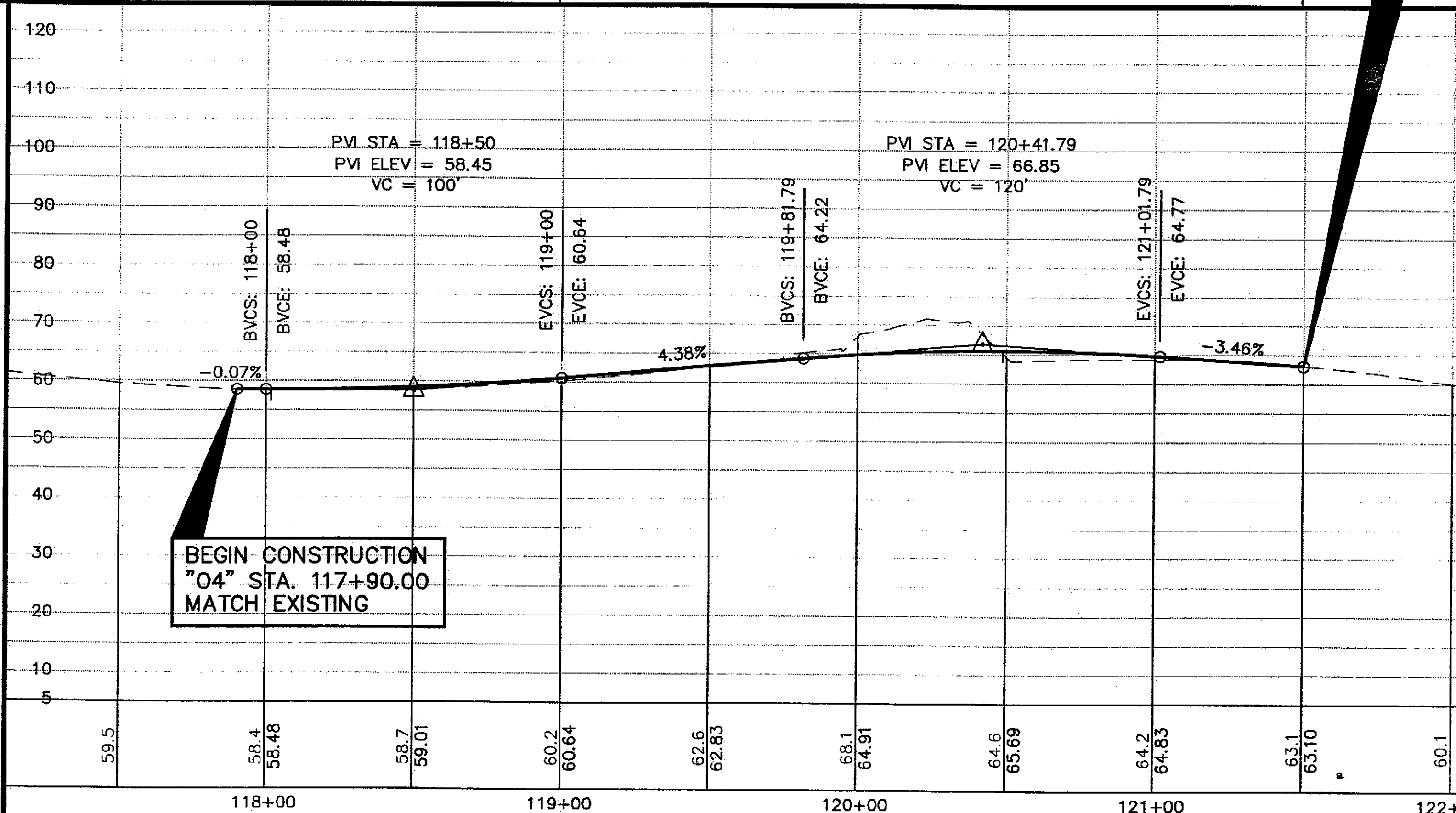
HHE-0997(7)

STATE	YEAR
ALASKA	2004

SHEET NUMBER	TOTAL SHEETS
F8	34



**"O4" LINE  
PLAN**



**"O4" LINE  
PROFILE**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

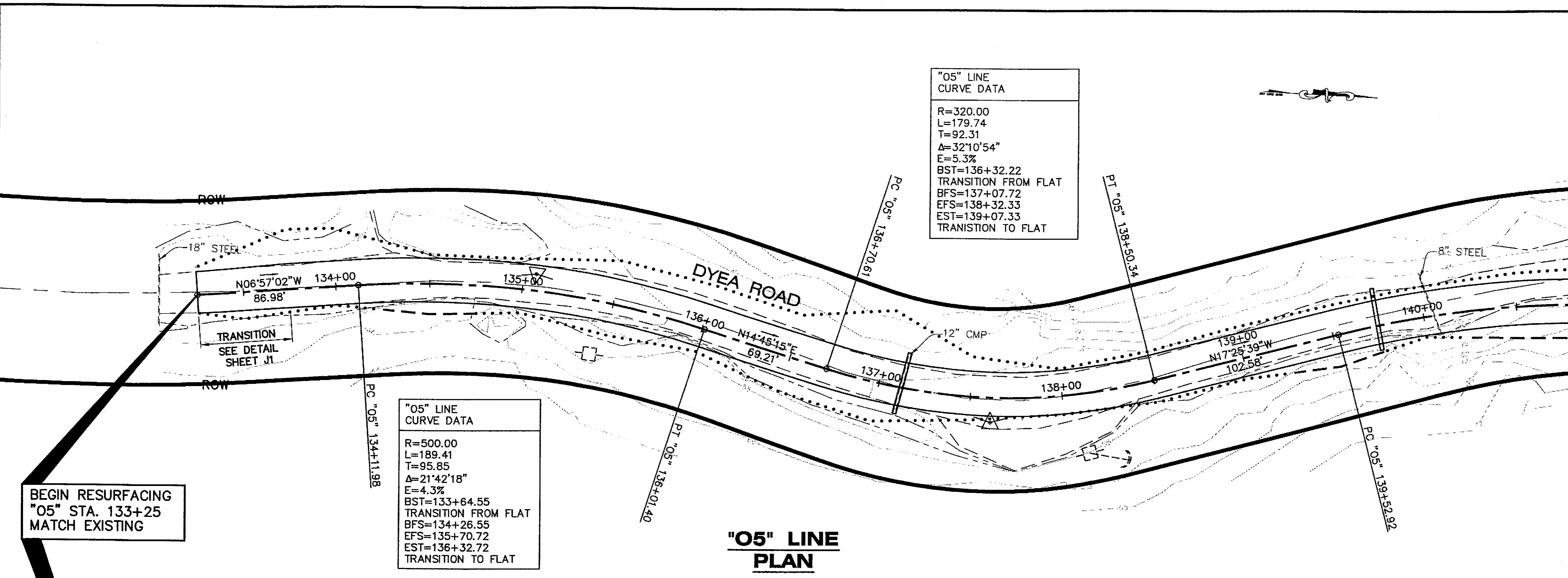
UNCLASSIFIED EXCAVATION = 1400 C.Y.  
EMBANKMENT = 150 C.Y.

BEGIN CONSTRUCTION  
"O4" STA. 117+90.00  
MATCH EXISTING

BEGIN CONSTRUCTION  
"O4" STA. 117+90.00  
MATCH EXISTING

STA 119+50 TO STA 121+50  
RIGHT CUT SLOPE 2:1

END CONSTRUCTION  
"O4" STA. 121+50 P.T.  
MATCH EXISTING

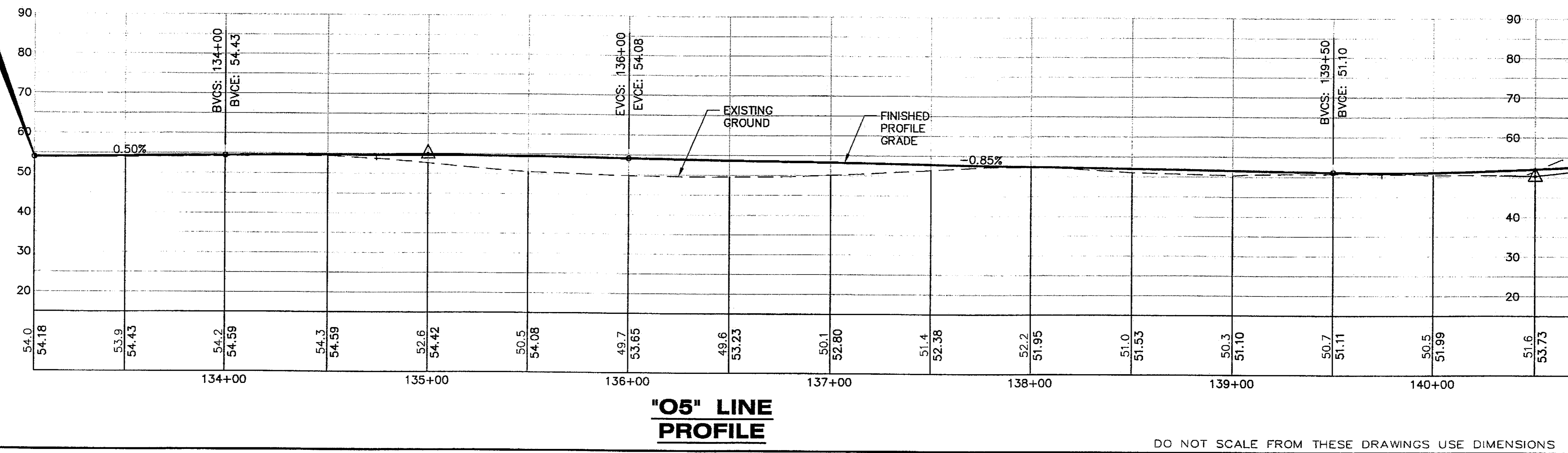


BEGIN RESURFACING  
"05" STA. 133+25  
MATCH EXISTING

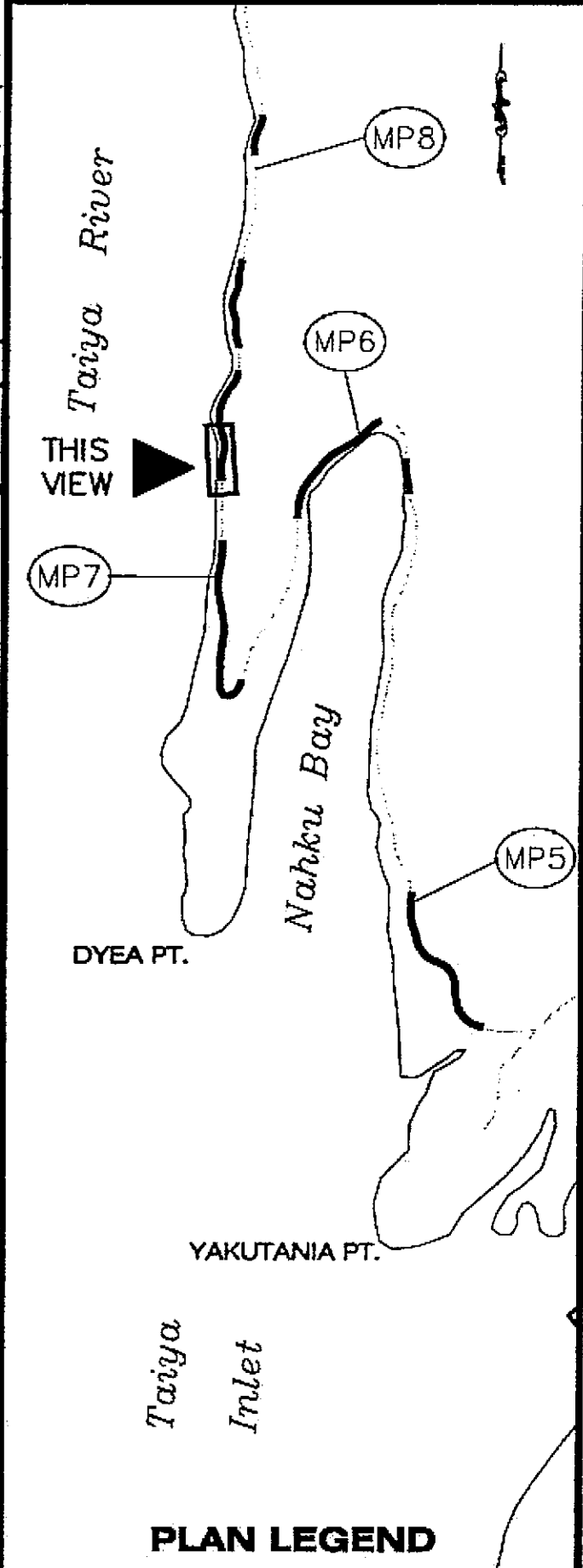
UNCLASSIFIED EXCAVATION = 200 C.Y.  
EMBANKMENT = 1400 C.Y.

PVI STA = 135+00  
PVI ELEV = 54.93  
VC = 200'

PVI STA = 140+50  
PVI ELEV = 50.25  
VC = 200'



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

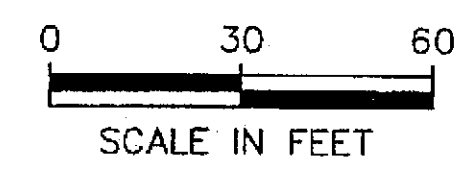
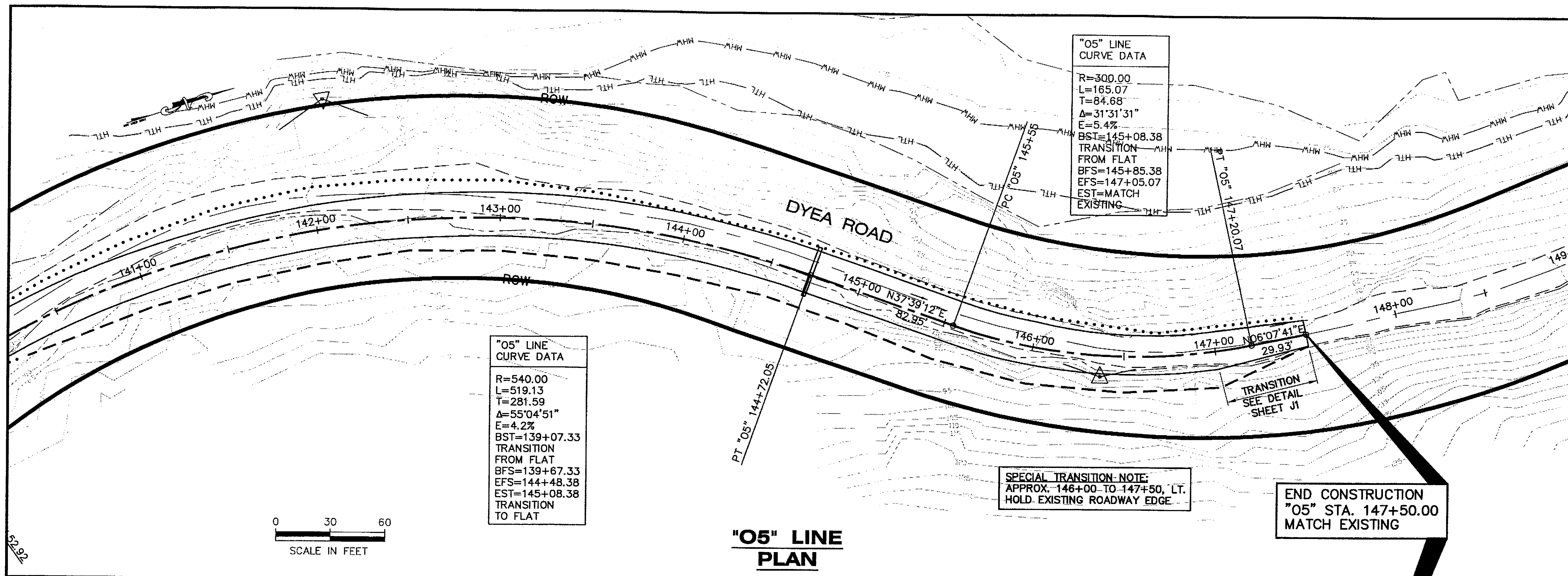
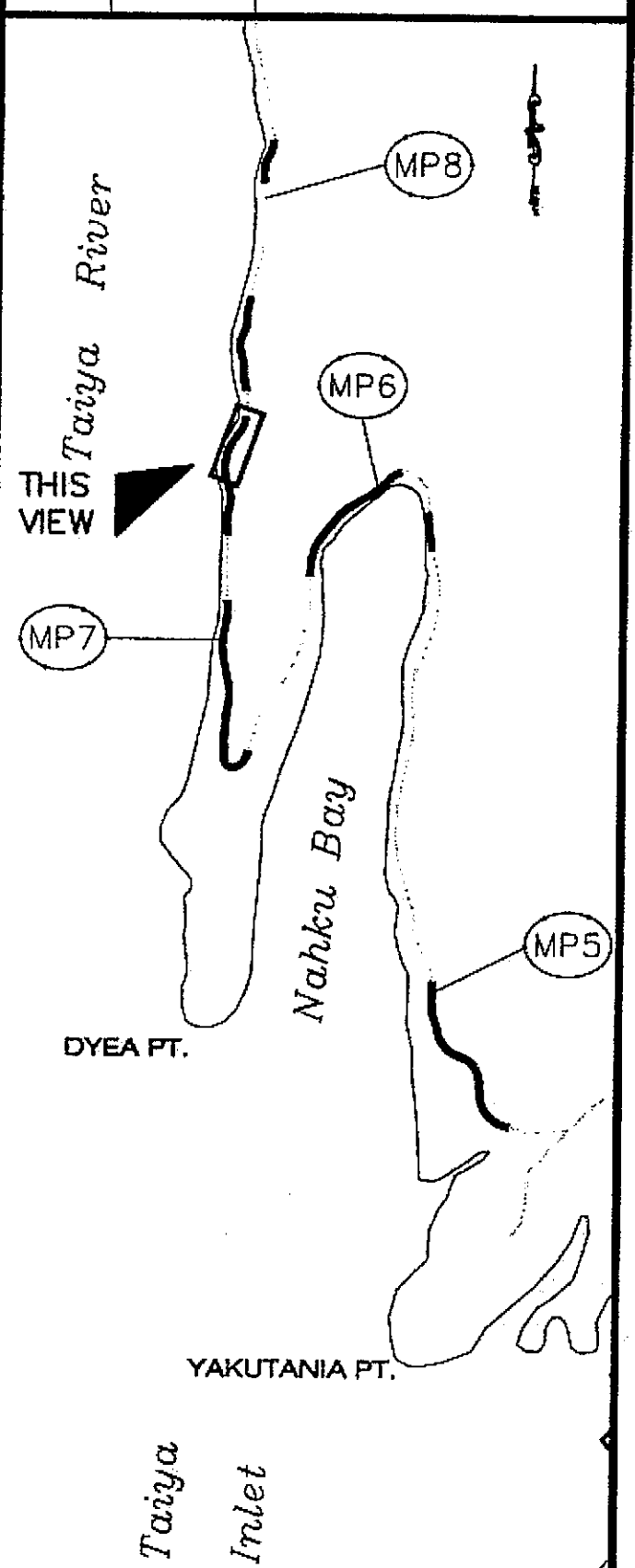
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

**SGY-DYE A ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

<b>"05" LINE PLAN &amp; PROFILE</b>	
PROJECT DESIGNATION <b>HHE-0997(7)</b>	
STATE <b>ALASKA</b>	YEAR <b>2004</b>
SHEET NUMBER <b>F9</b>	TOTAL SHEETS <b>34</b>

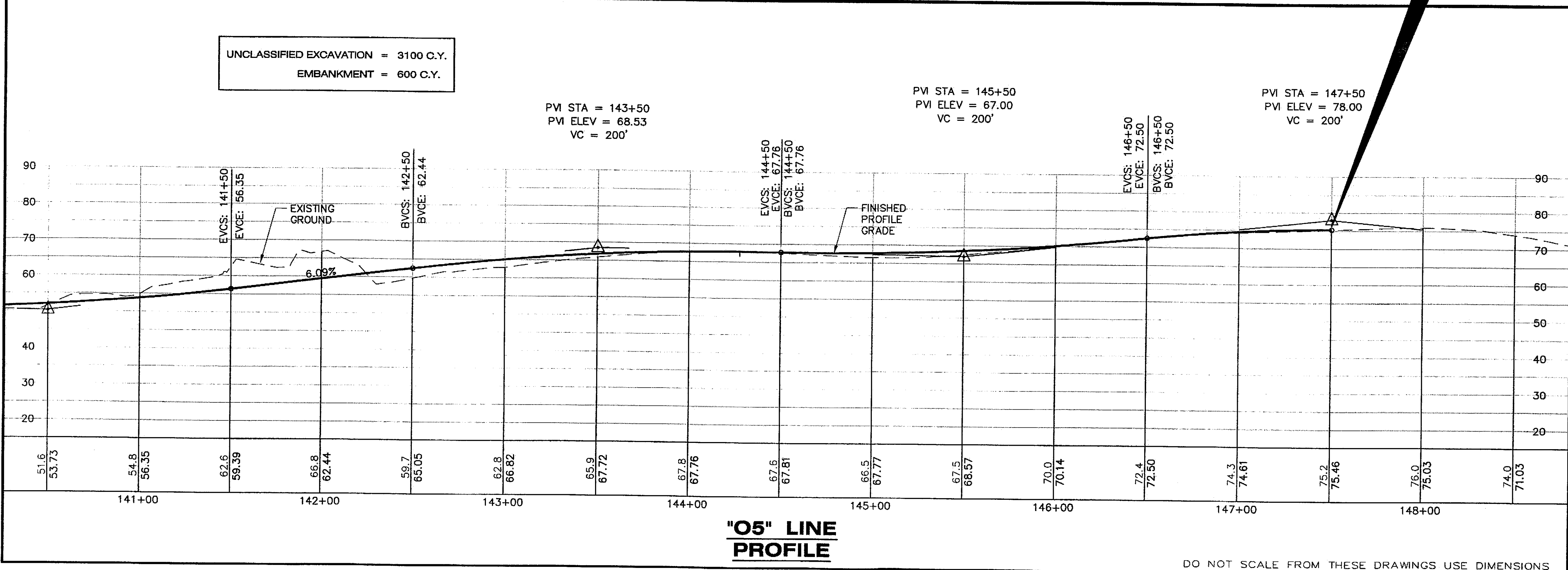
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**"O5" LINE PLAN**

UNCLASSIFIED EXCAVATION = 3100 C.Y.  
EMBANKMENT = 600 C.Y.



**"O5" LINE PROFILE**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

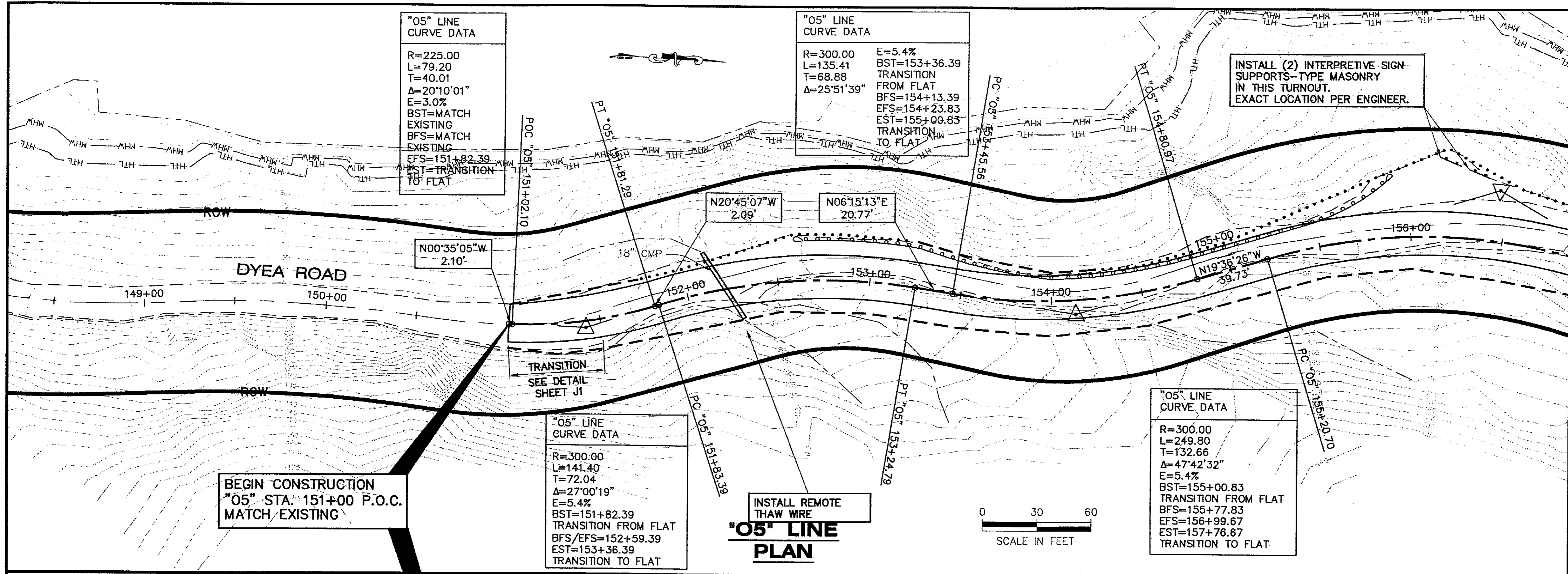
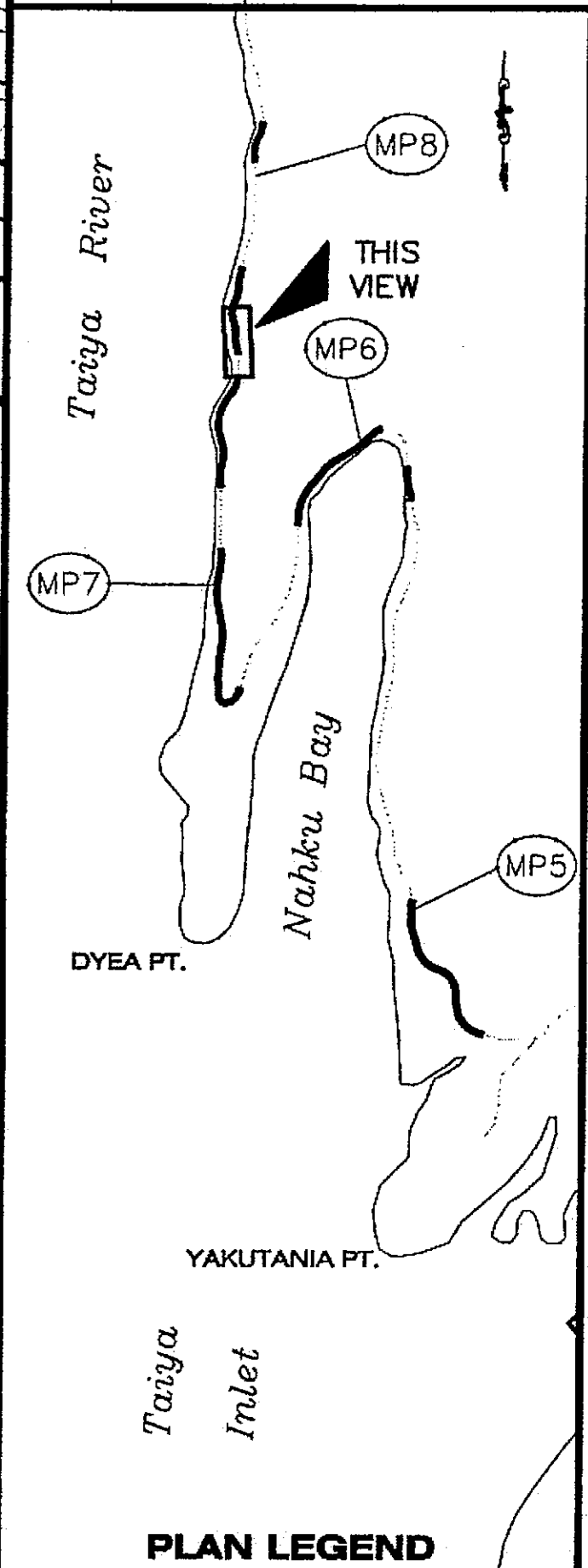
**SGY-DYEA ROAD SAFETY IMPROVEMENTS PROJECT #68576**

**"O5" LINE PLAN & PROFILE**

PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>F10</b>	<b>34</b>

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**"05" LINE CURVE DATA**  
 R=225.00  
 L=79.20  
 T=40.01  
 Δ=20°10'01"  
 E=3.0%  
 BST=MATCH EXISTING  
 BFS=MATCH EXISTING  
 EFS=151+82.39  
 EST=TRANSITION TO FLAT

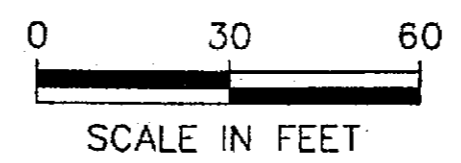
**"05" LINE CURVE DATA**  
 R=300.00 E=5.4%  
 L=135.41 BST=153+36.39  
 T=68.88 TRANSITION FROM FLAT  
 BFS=154+13.39  
 EFS=154+23.83  
 EST=155+00.83  
 TRANSITION TO FLAT

**"05" LINE CURVE DATA**  
 R=300.00  
 L=249.80  
 T=132.66  
 Δ=47°42'32"  
 E=5.4%  
 BST=155+00.83  
 TRANSITION FROM FLAT  
 BFS=155+77.83  
 EFS=156+99.67  
 EST=157+76.67  
 TRANSITION TO FLAT

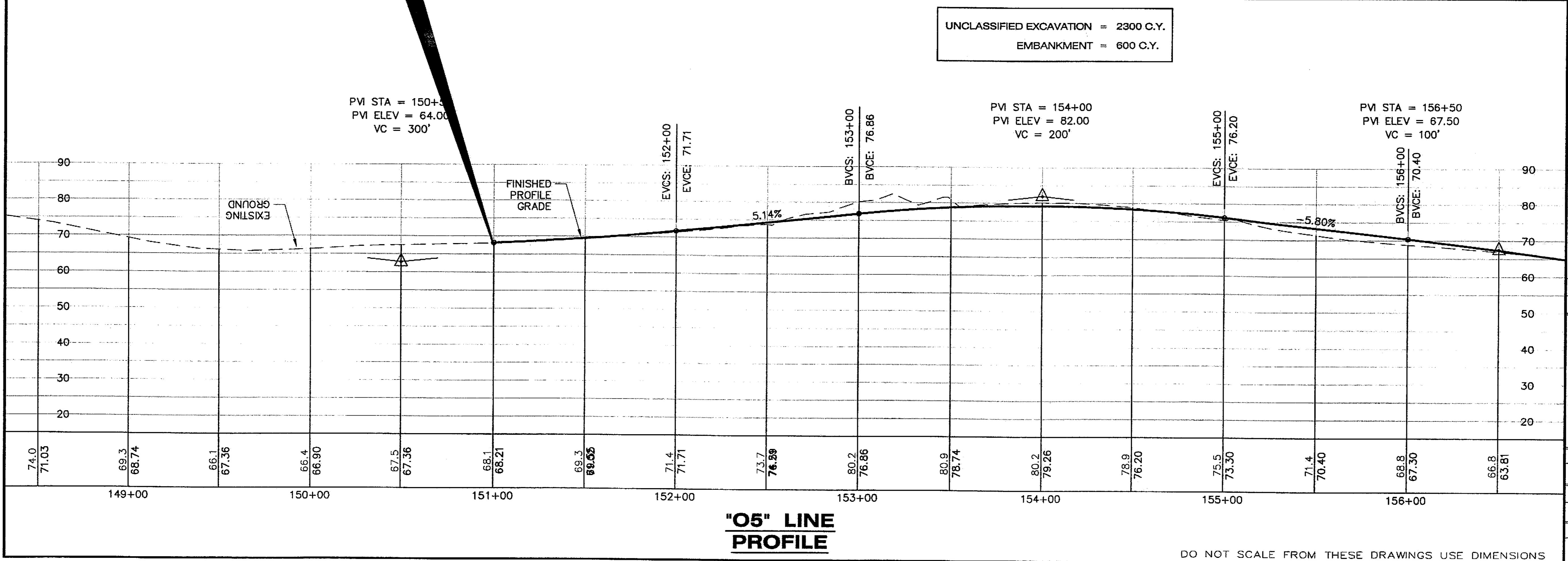
**"05" LINE CURVE DATA**  
 R=300.00  
 L=141.40  
 T=72.04  
 Δ=27°00'19"  
 E=5.4%  
 BST=151+82.39  
 TRANSITION FROM FLAT  
 BFS/EFS=152+59.39  
 EST=153+36.39  
 TRANSITION TO FLAT

BEGIN CONSTRUCTION  
 "05" STA. 151+00 P.O.C.  
 MATCH EXISTING

INSTALL REMOTE  
 THAW WIRE  
**"05" LINE PLAN**



UNCLASSIFIED EXCAVATION = 2300 C.Y.  
 EMBANKMENT = 600 C.Y.



**"05" LINE PROFILE**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR  
 DRAWN BY: R. SNYDER

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

**SGY-DYE A ROAD SAFETY IMPROVEMENTS PROJECT #68576**

**"05" LINE PLAN & PROFILE**

PROJECT DESIGNATION  
**HHE-0997(7)**

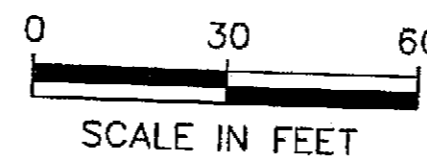
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>F11</b>	<b>34</b>

"05" LINE CURVE DATA  
 R=300.00  
 L=142.70  
 T=72.73  
 Δ=27°15'14"  
 E=5.4%  
 BST=157+76.67  
 TRANSITION FROM FLAT  
 BFS=158+53.67  
 EFS=159+94.31  
 EST=159+71.31  
 TRANSITION TO FLAT

"05" LINE CURVE DATA  
 R=300.00  
 L=249.80  
 T=132.66  
 Δ=47°42'32"  
 E=5.4%  
 BST=155+00.83  
 TRANSITION FROM FLAT  
 BFS=155+77.83  
 EFS=156+99.67  
 EST=157+76.67  
 TRANSITION TO FLAT

"05" LINE CURVE DATA  
 R=400.00  
 L=129.54  
 T=65.34  
 Δ=18°33'17"  
 E=4.8%  
 BST=159+71.31  
 TRANSITION FROM FLAT  
 BFS=160+39.31  
 EFS=161+27.27  
 EST=MATCH EXISTING

"05" LINE PLAN



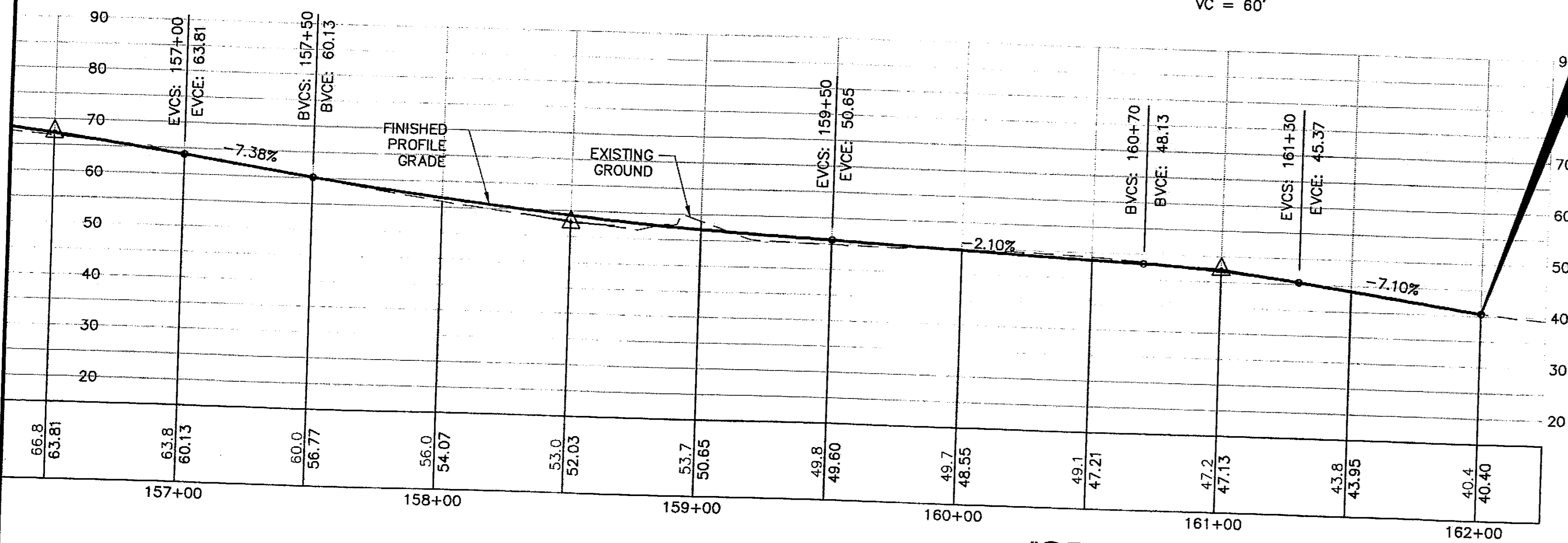
END CONSTRUCTION  
 "05" STA. 162+00.00  
 MATCH EXISTING

UNCLASSIFIED EXCAVATION = 5300 C.Y.  
 EMBANKMENT = 50 C.Y.

PVI STA = 156+50  
 PVI ELEV = 67.50  
 VC = 100'

PVI STA = 158+50  
 PVI ELEV = 52.75  
 VC = 200'

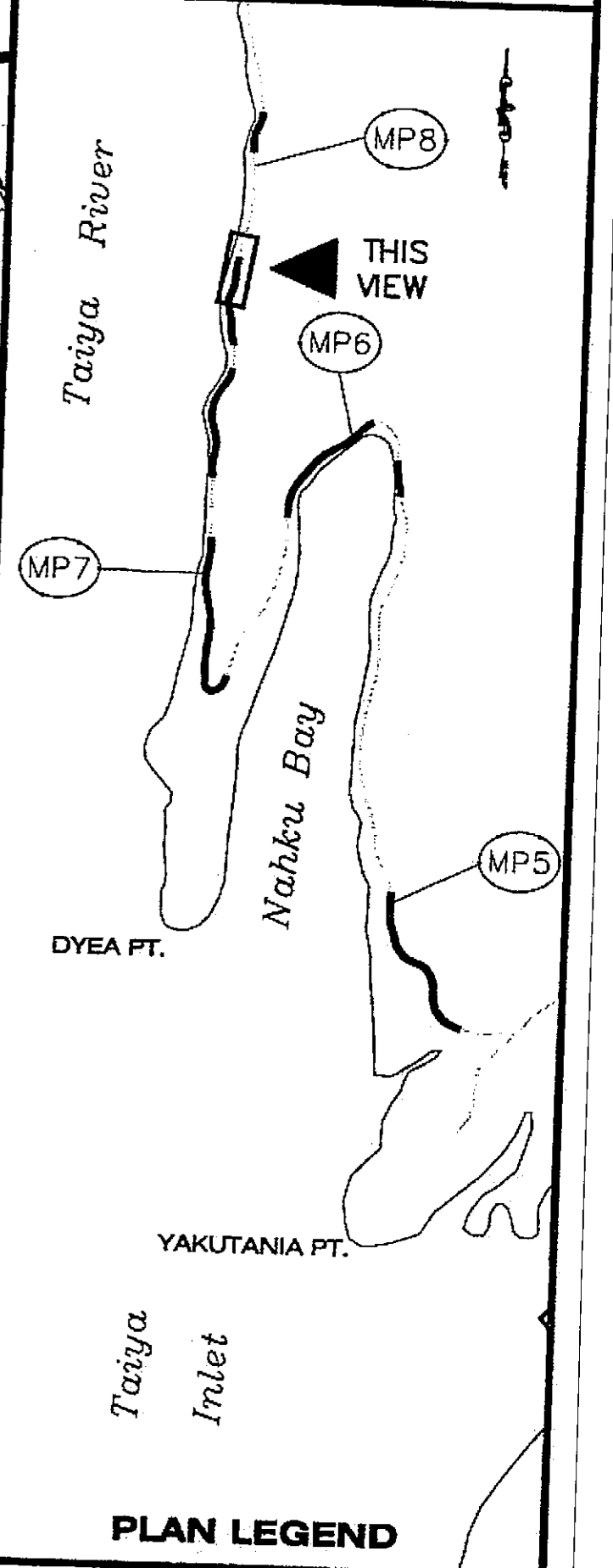
PVI STA = 161+00  
 PVI ELEV = 47.50  
 VC = 60'



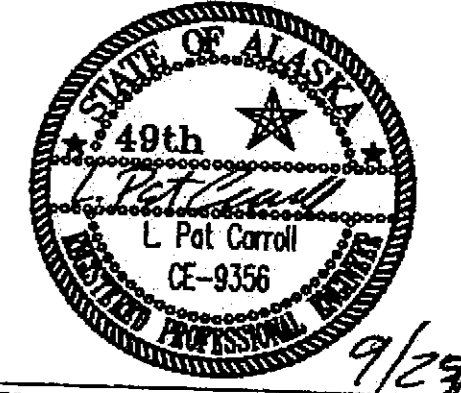
"05" LINE PROFILE

PATH:  
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 Thu, 23/Sep/04 08:53AM Irobertson  
 TAB: F12

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR  
 DRAWN BY: R. SNYDER

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING  
 SERVICES DIVISION  
**SGY-DYEA ROAD  
 SAFETY IMPROVEMENTS  
 PROJECT #68576**

"05" LINE PLAN & PROFILE

PROJECT DESIGNATION	
HHE-0997(7)	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F12	34

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

NOTE:  
IN WATER WORK SUBJECT TO  
ENVIRONMENTAL COMMITMENTS  
AND PERMITS LOCATED IN  
APPENDIX B OF THE SPECIAL  
PROVISIONS.

"06" LINE  
CURVE DATA  
R=250.00  
L=116.48  
T=59.32  
Δ=26°41'44"  
E=5.7%  
BST=179+01.53  
TRANSITION FROM FLAT  
BFS=179+83.53  
EFS=180+29.53  
EST=MATCH EXISTING

"06" LINE  
CURVE DATA  
R=303.75  
L=187.52  
T=96.86  
Δ=35°22'18"  
E=5.4%  
BST=175+83.17  
TRANSITION FROM FLAT  
BFS=177+03.17  
EFS=178+24.53  
EST=179+01.53  
TRANSITION TO FLAT

APPROXIMATE CUT LINE.  
FINAL LIMITS TO BE  
DETERMINED IN THE  
FIELD AND APPROVED BY  
THE ENGINEER.

BEGIN CONSTRUCTION  
"06" STA. 175+75.00  
MATCH EXISTING

END CONSTRUCTION  
"06" STA. 180+86.61  
MATCH EXISTING

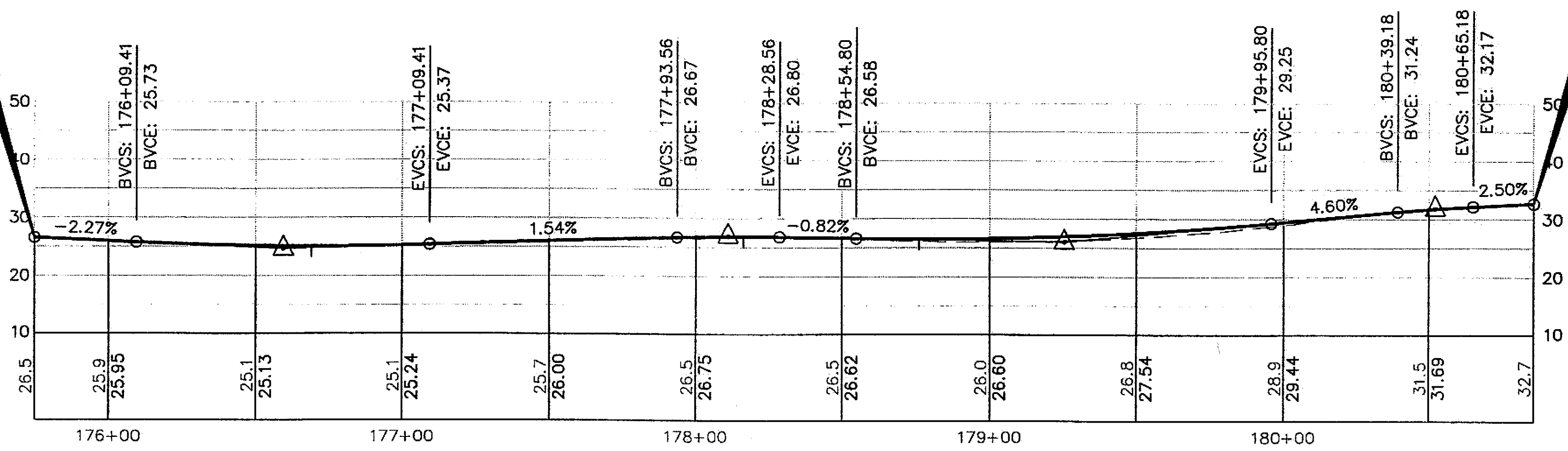
UNCLASSIFIED EXCAVATION = 4000 C.Y.  
EMBANKMENT = 7200 C.Y.  
RIPRAP = 4700 C.Y.

PVI STA = 176+59.41  
PVI ELEV = 24.60  
VC = 100'

PVI STA = 178+11.06  
PVI ELEV = 26.94  
VC = 35'

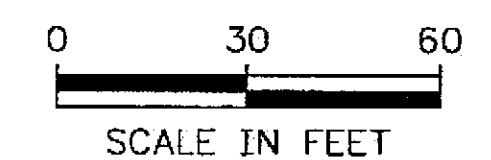
PVI STA = 179+25.30  
PVI ELEV = 26.00  
VC = 141'

PVI STA = 180+52.18  
PVI ELEV = 31.84  
VC = 26'



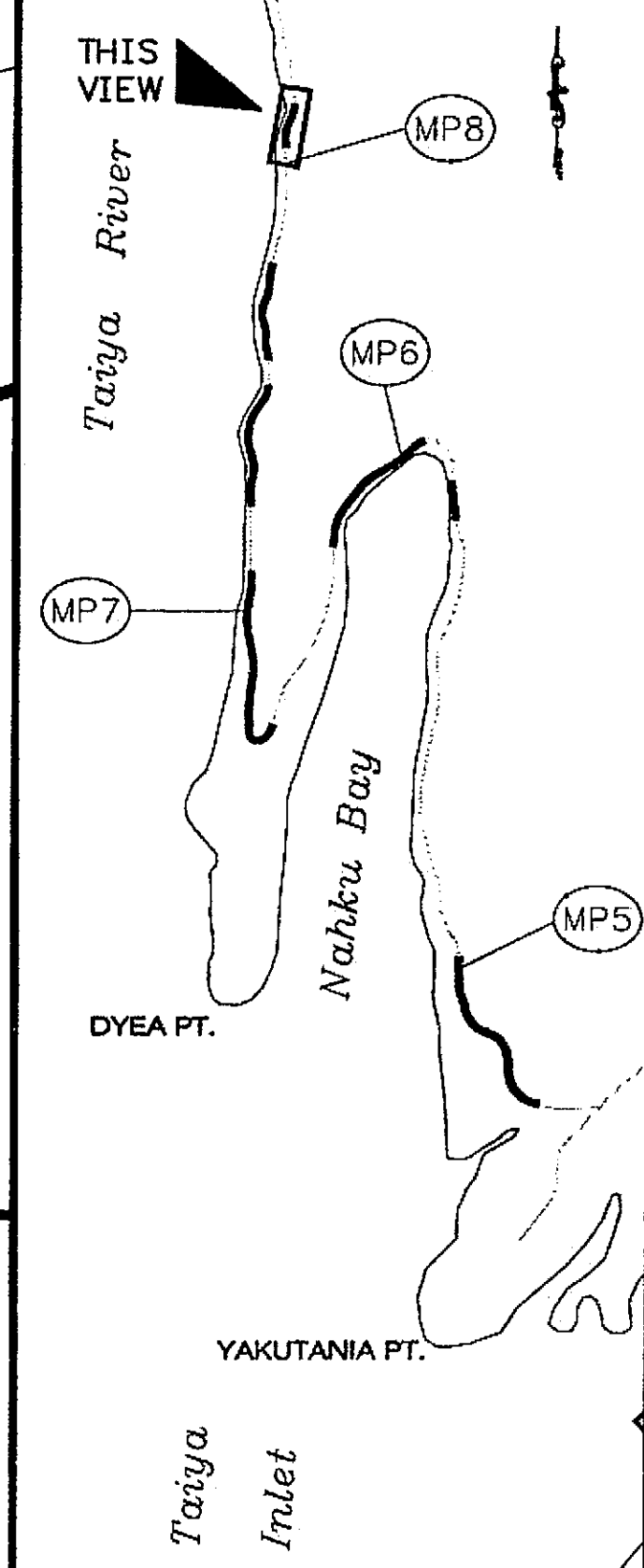
"06" LINE  
PROFILE

"06" LINE  
PLAN



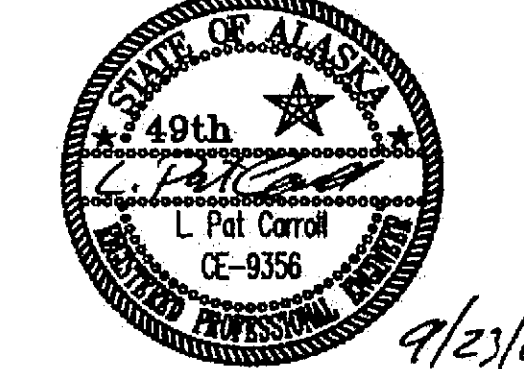
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Q:\Sgy\68576\Planset\F\_Plan\_68576.dwg  
Thu, 23/Sep/04 11:23AM rksnyder  
TAB: F13

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR

DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION  
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

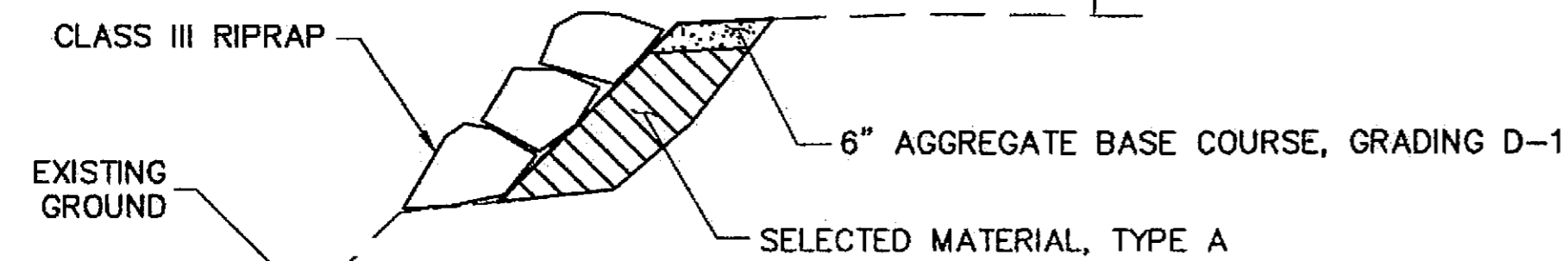
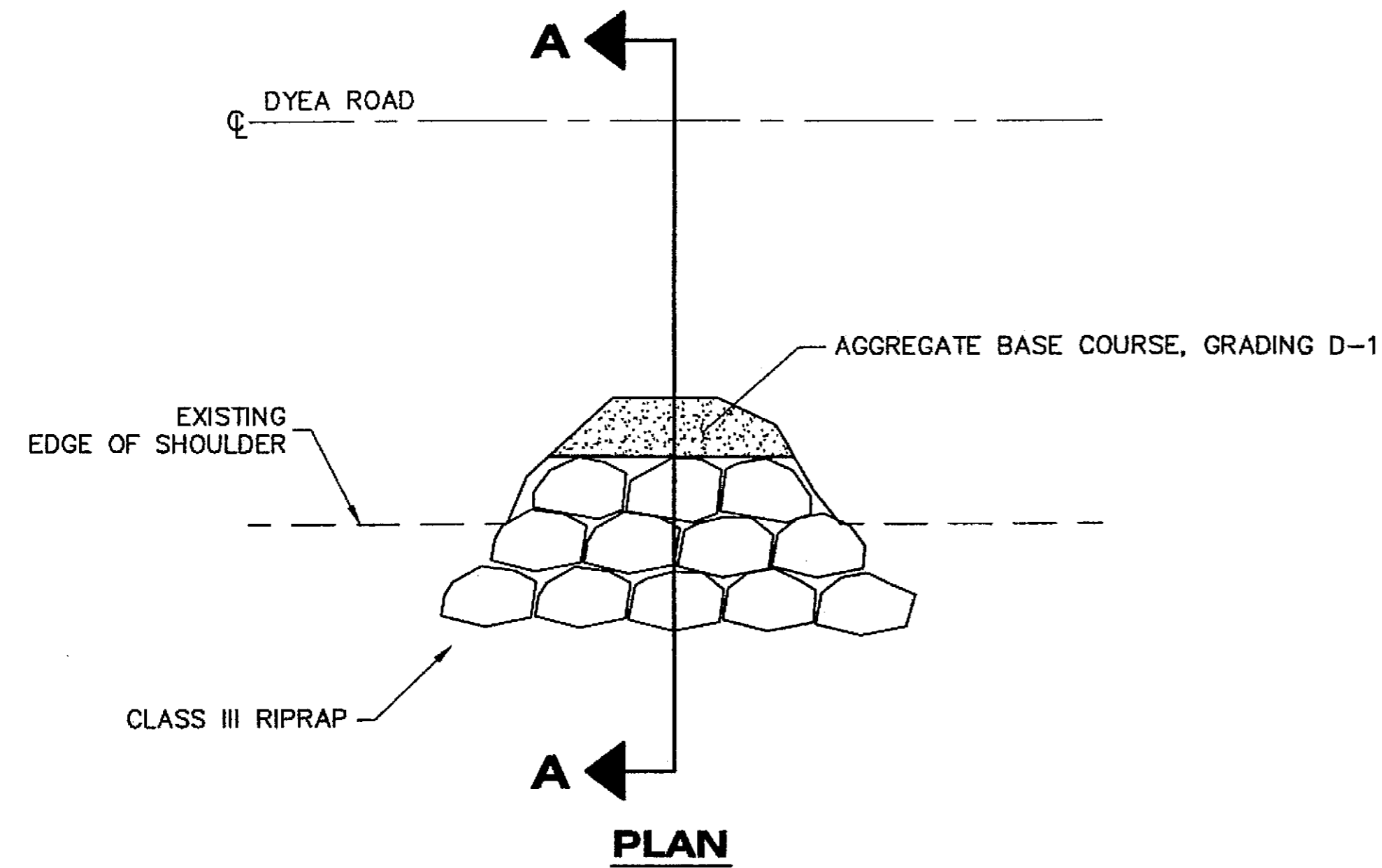
"06" LINE  
PLAN & PROFILE

PROJECT DESIGNATION

HHE-0997(7)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
F13	34

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



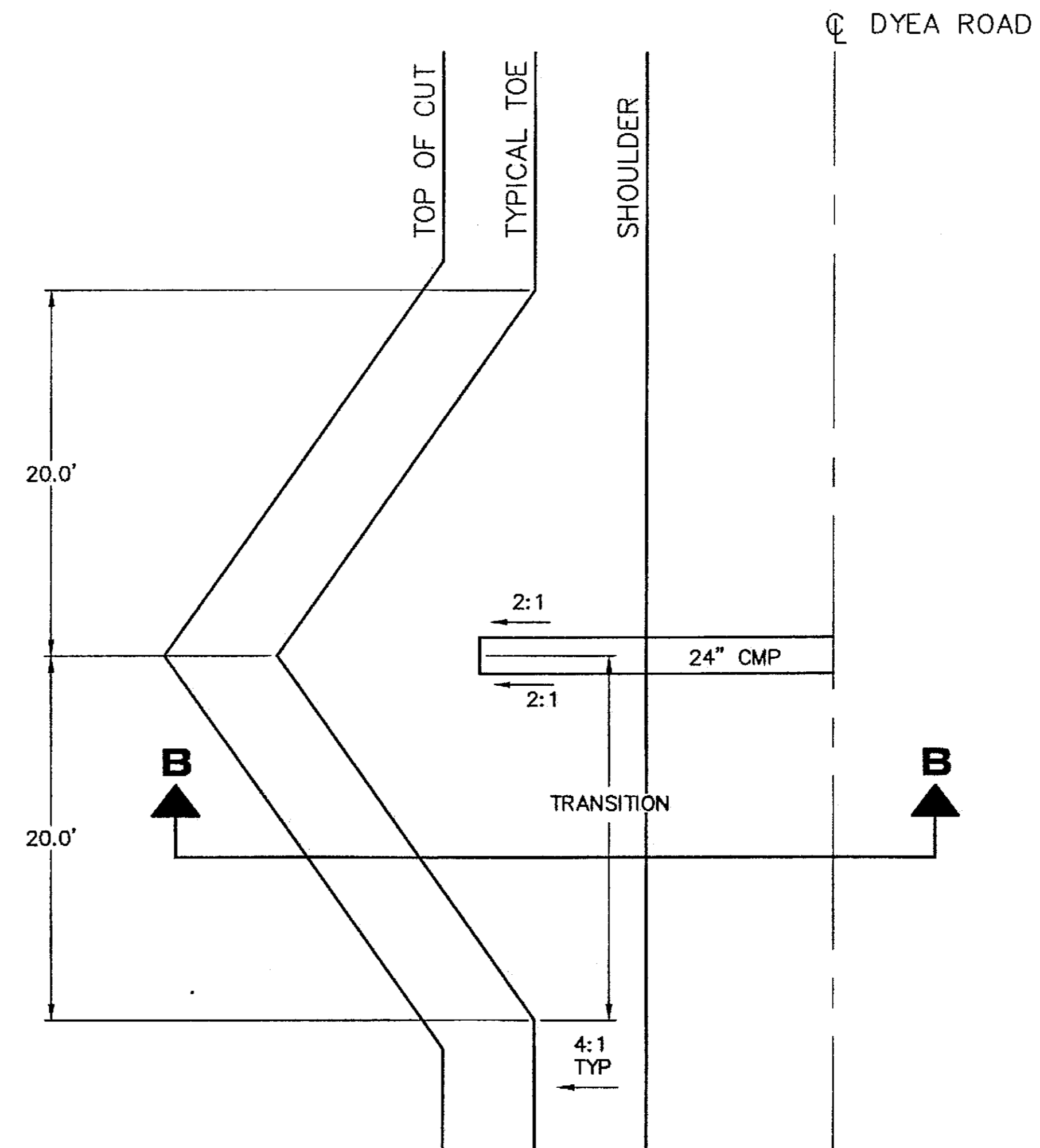
**SECTION A-A**

**MAINTENANCE RIPRAP DETAIL**  
APPROX. 6 LOCATIONS DETERMINED IN FIELD

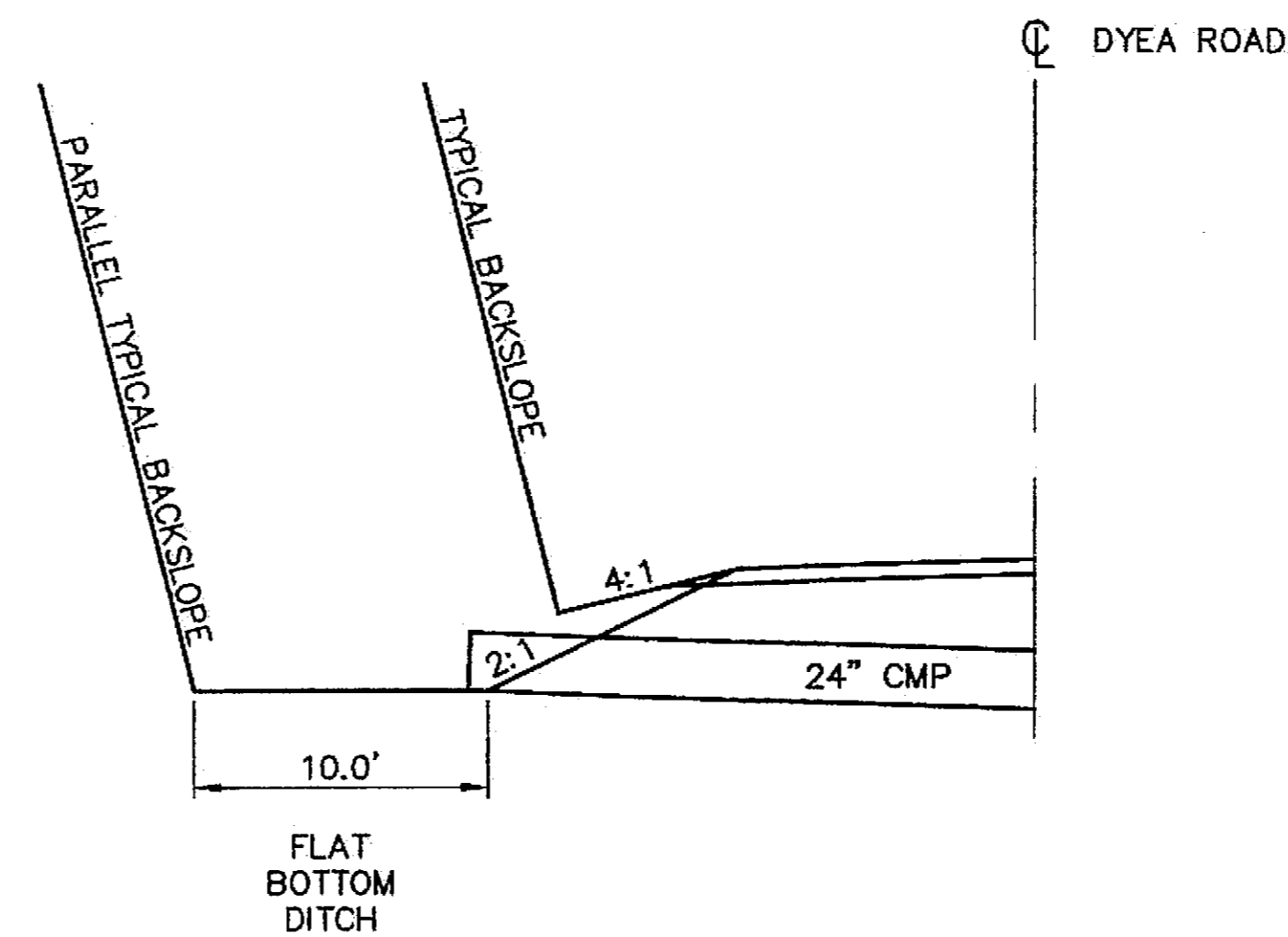
**NOTES:**

1. SORT AND PLACE CLASS III RIPRAP.
2. NO WORK SHALL TAKE PLACE BELOW ELEVATION 20.6'.
3. CONSTRUCTED AT LOCATION DESIGNATED BY ENGINEER.

HTL  
ELEV  
20.6'

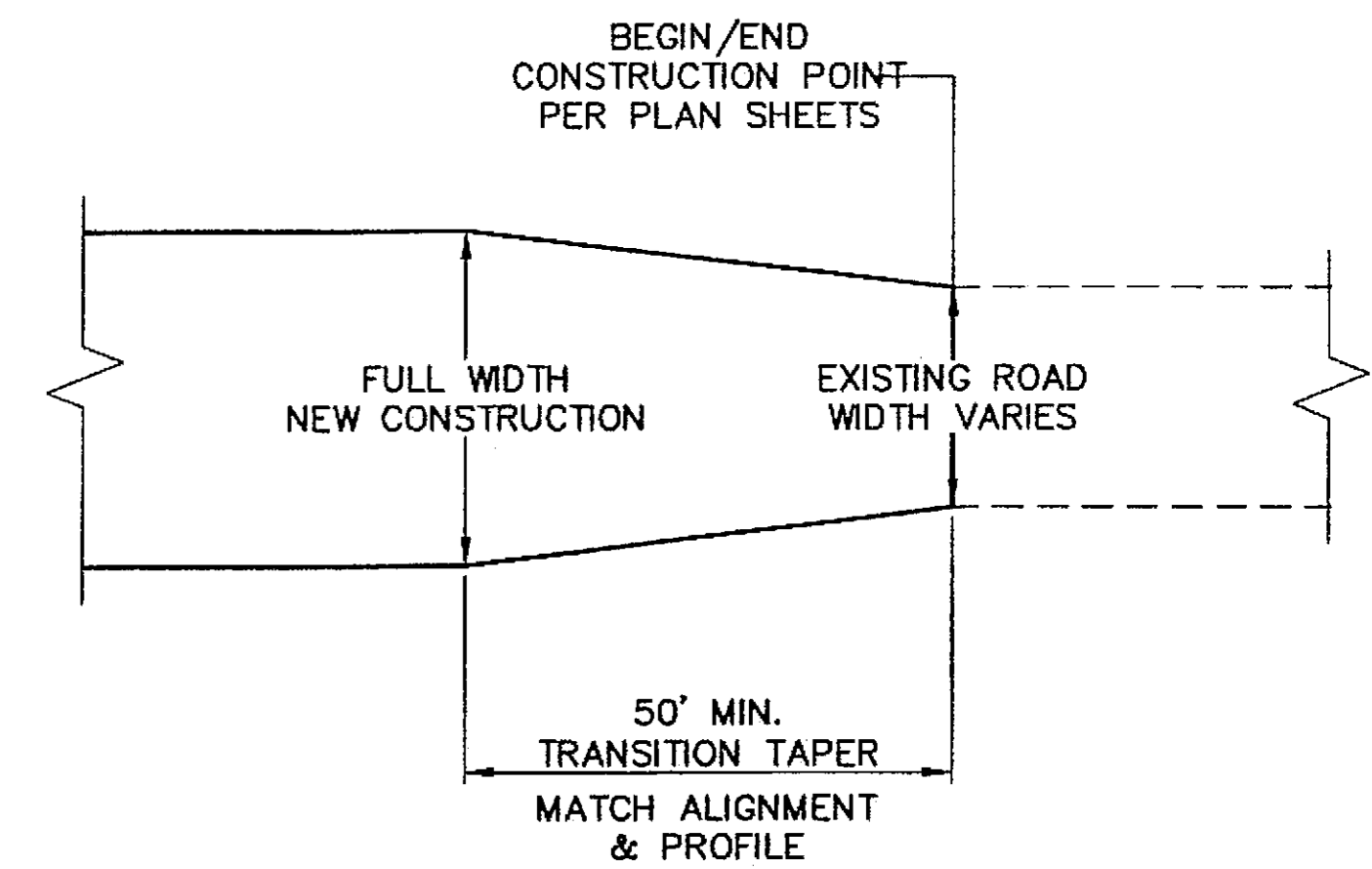


**PLAN**



**SECTION B-B**

**CULVERT CATCH BASIN PLACEMENT DETAIL**

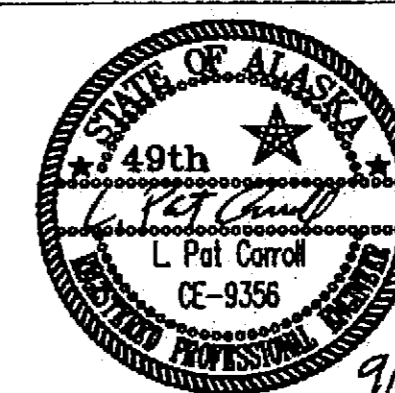


**ROADWAY TRANSITION DETAIL**

BEGIN/END CONSTRUCTION ALL LINES

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: P. CARROLL



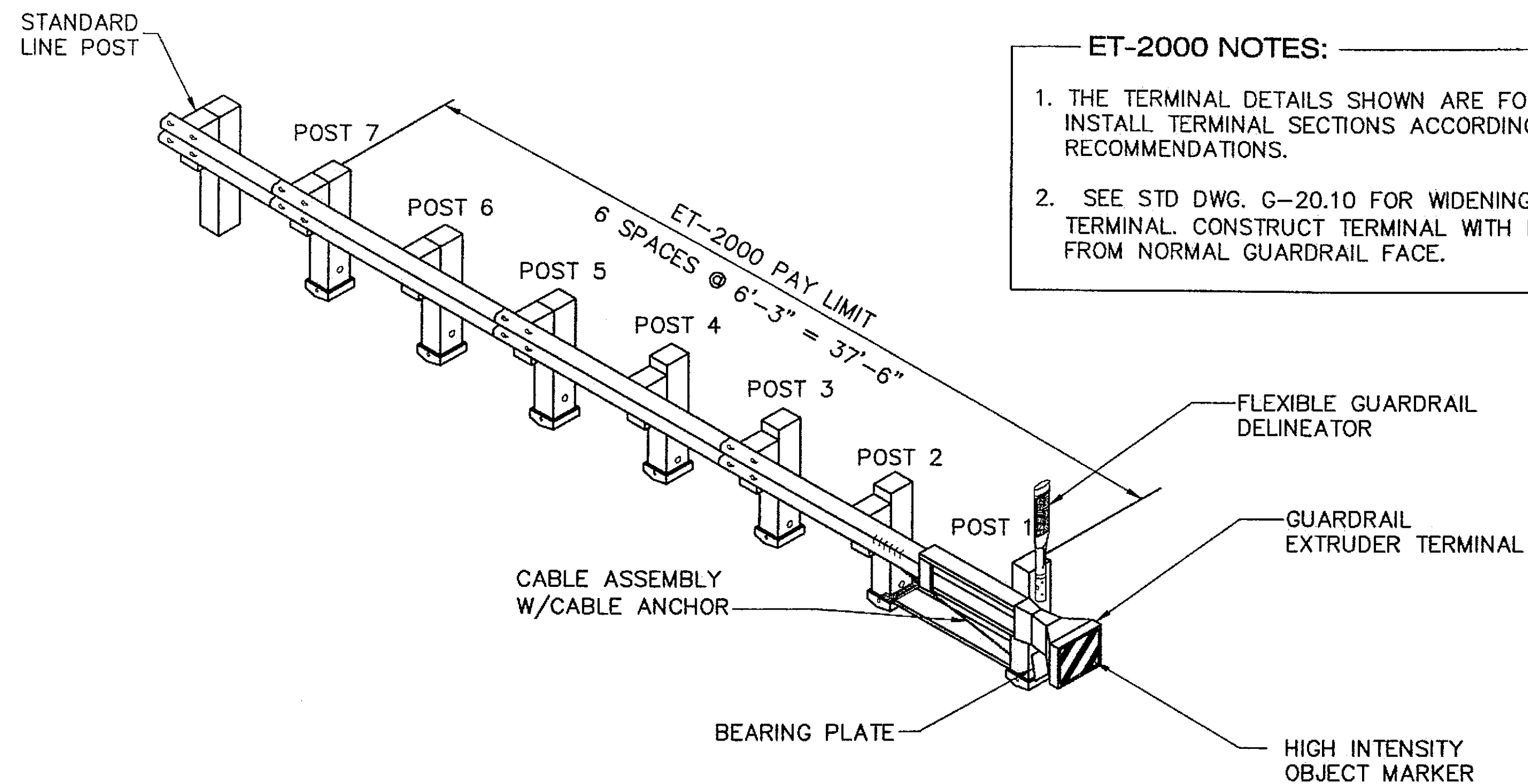
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION  
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**MISCELLANEOUS  
DETAILS**

DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

PATH: O:\Sgy\68576\PlanSet\J\_Details.dwg  
TAB: J1 Thu, 23/Sep/04 08:06AM mltaylor

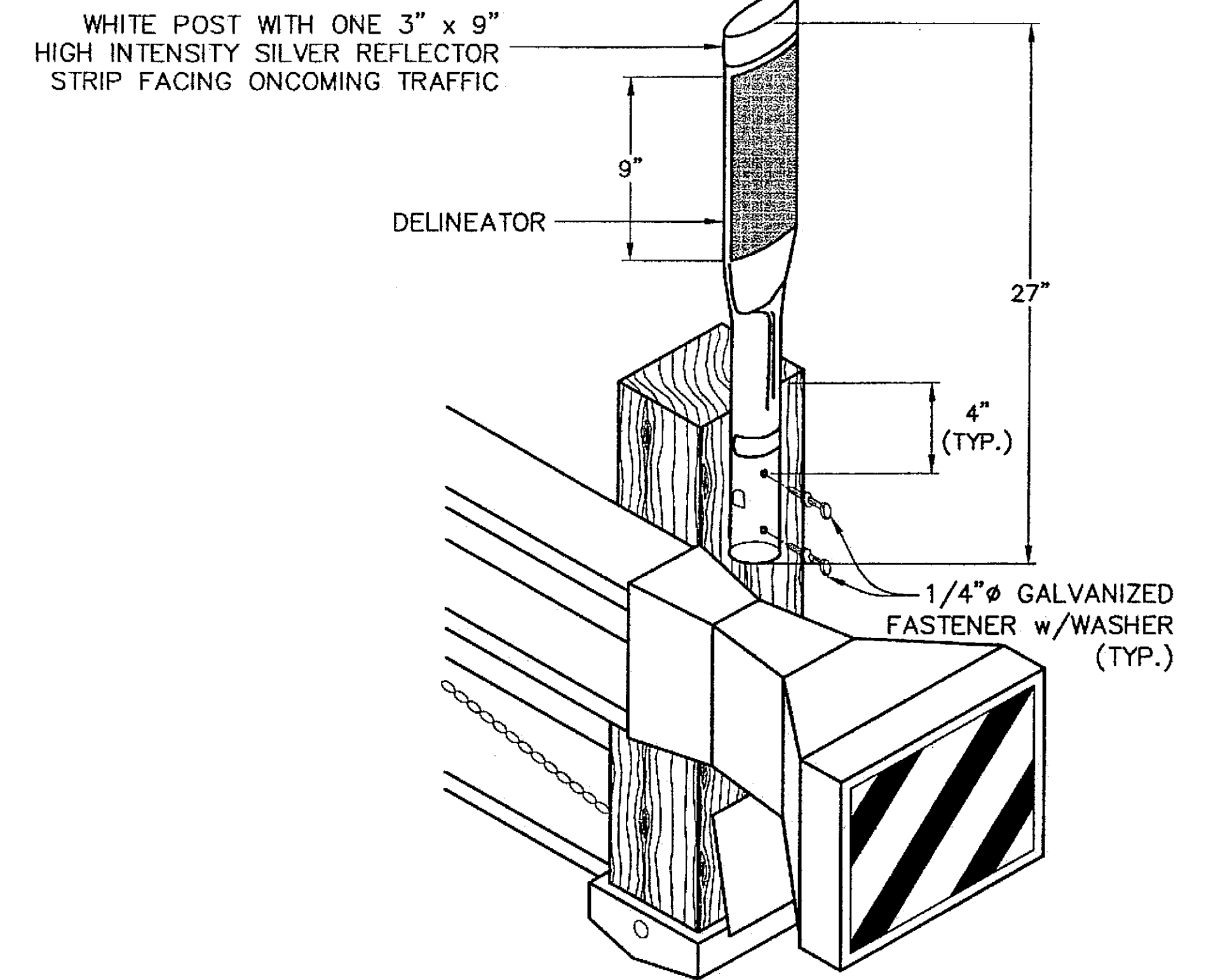
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			HHE-0997(7)	2004	J1	34



**ET-2000 NOTES:**

1. THE TERMINAL DETAILS SHOWN ARE FOR ILLUSTRATION ONLY. INSTALL TERMINAL SECTIONS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
2. SEE STD DWG. G-20.10 FOR WIDENING GUARDRAIL END TERMINAL. CONSTRUCT TERMINAL WITH END OFFSET OF 1.5' FROM NORMAL GUARDRAIL FACE.

**ET-2000 GUARDRAIL EXTRUDER TERMINAL**  
NTS



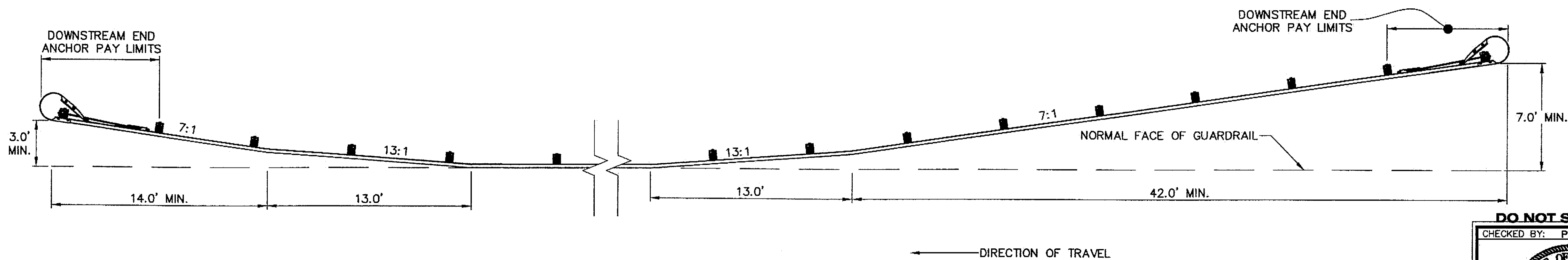
**FLEXIBLE GUARDRAIL DELINEATOR**  
NTS

**DOWNSTREAM END ANCHOR NOTES:**

1. SEE STD. DWG. G-13.00 FOR DETAILS OF CONSTRUCTION.
2. MAXIMUM FLARE RATE 13:1 UNTIL FACE OF GUARDRAIL IS 13' FROM CENTERLINE. BEYOND 13' FROM CENTERLINE, THE FLARE RATE IS 7:1.
3. TERMINATE DOWNSTREAM END ANCHORS ON THE UPSTREAM END WITH A MINIMUM OFFSET OF 7' FROM NORMAL FACE OF GUARDRAIL. INCREASE OFFSET AS TERRAIN ALLOWS AND AS DIRECTED BY THE ENGINEER.

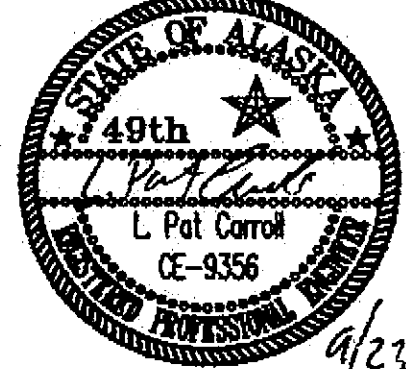
**DELINEATOR NOTES:**

1. EACH ET-2000 GUARDRAIL END SHALL HAVE ONE DELINEATOR.
2. DELINEATORS SHALL HAVE WHITE REFLECTIVE SHEETING.
3. STEEL POST GUARDRAIL SHALL BE PRE-DRILLED PRIOR TO SECURING DELINEATOR WITH SELF-TAPPING SCREWS.
4. DELINEATOR SHALL BE INCIDENTAL TO ITEM 606(11).

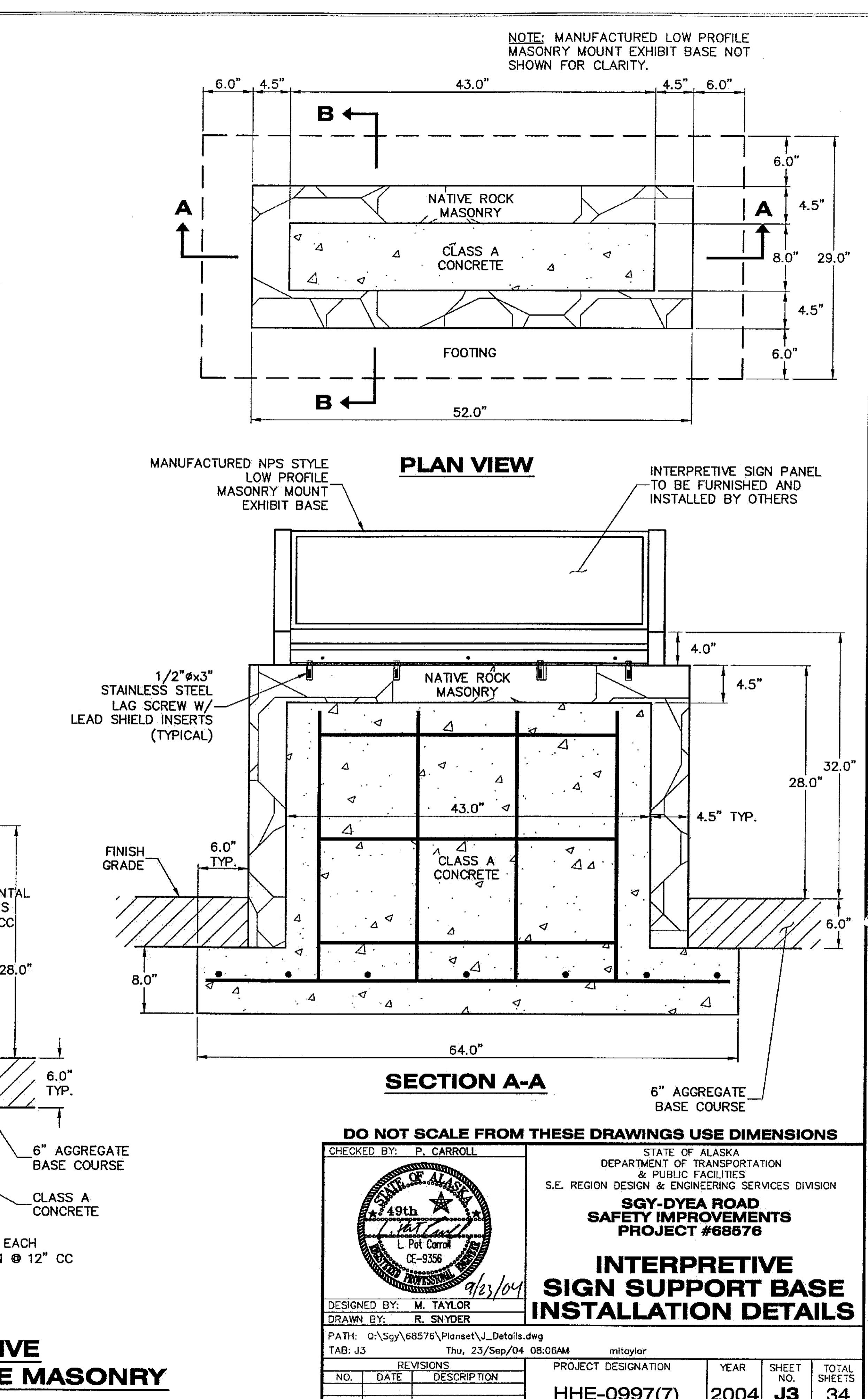
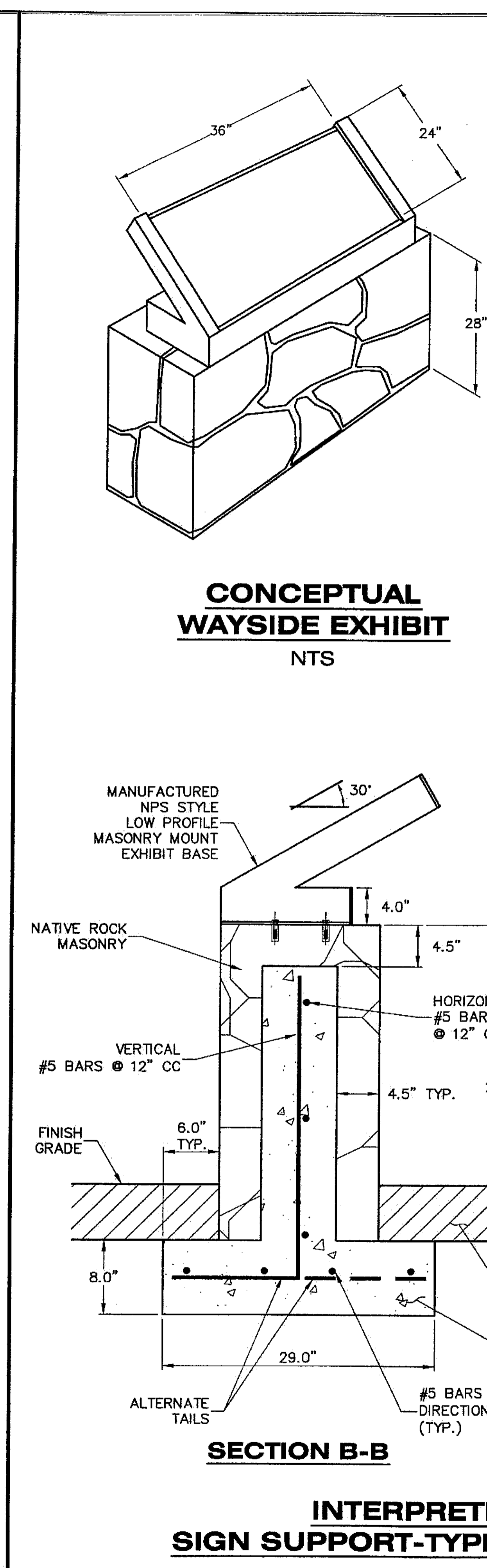
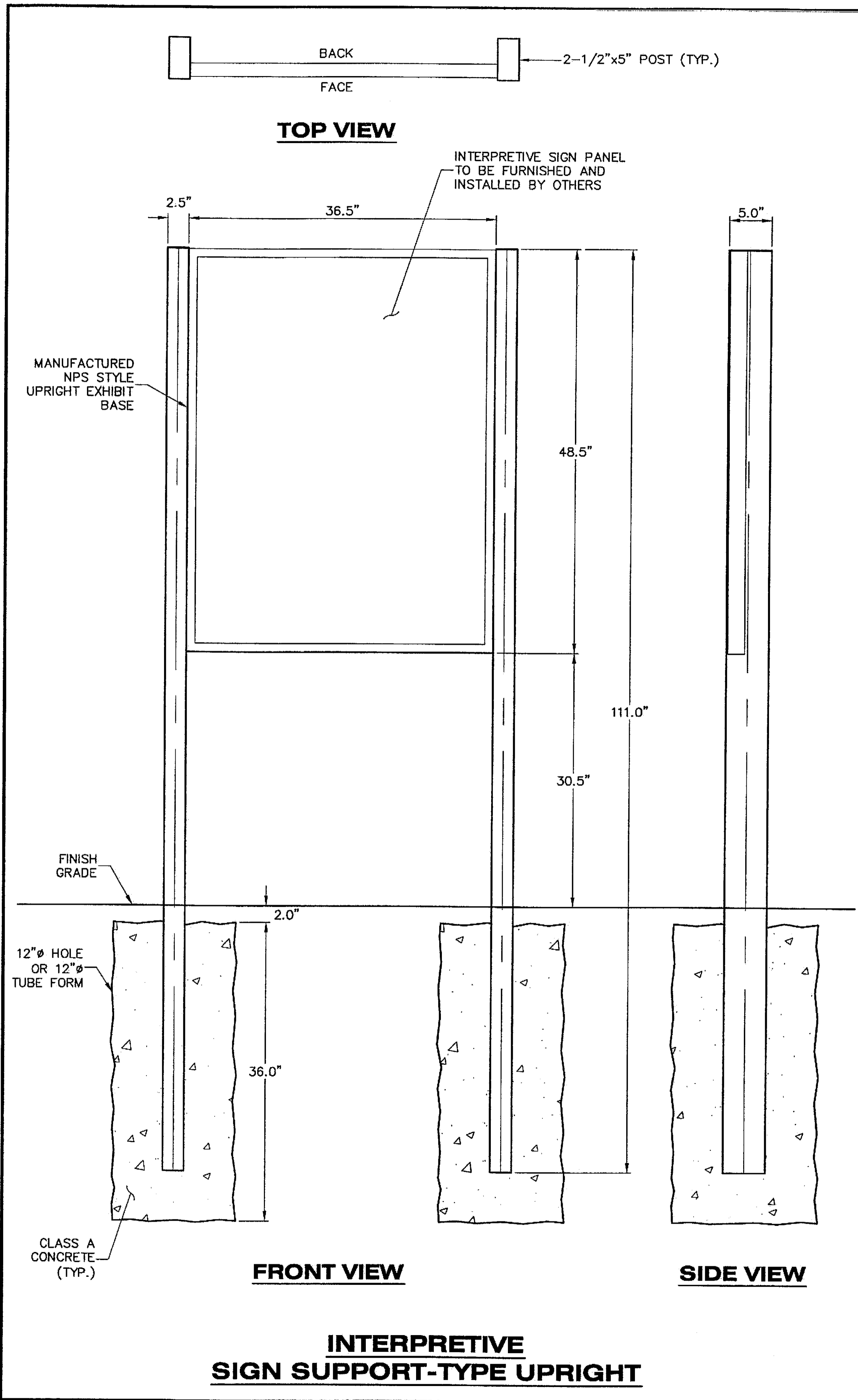


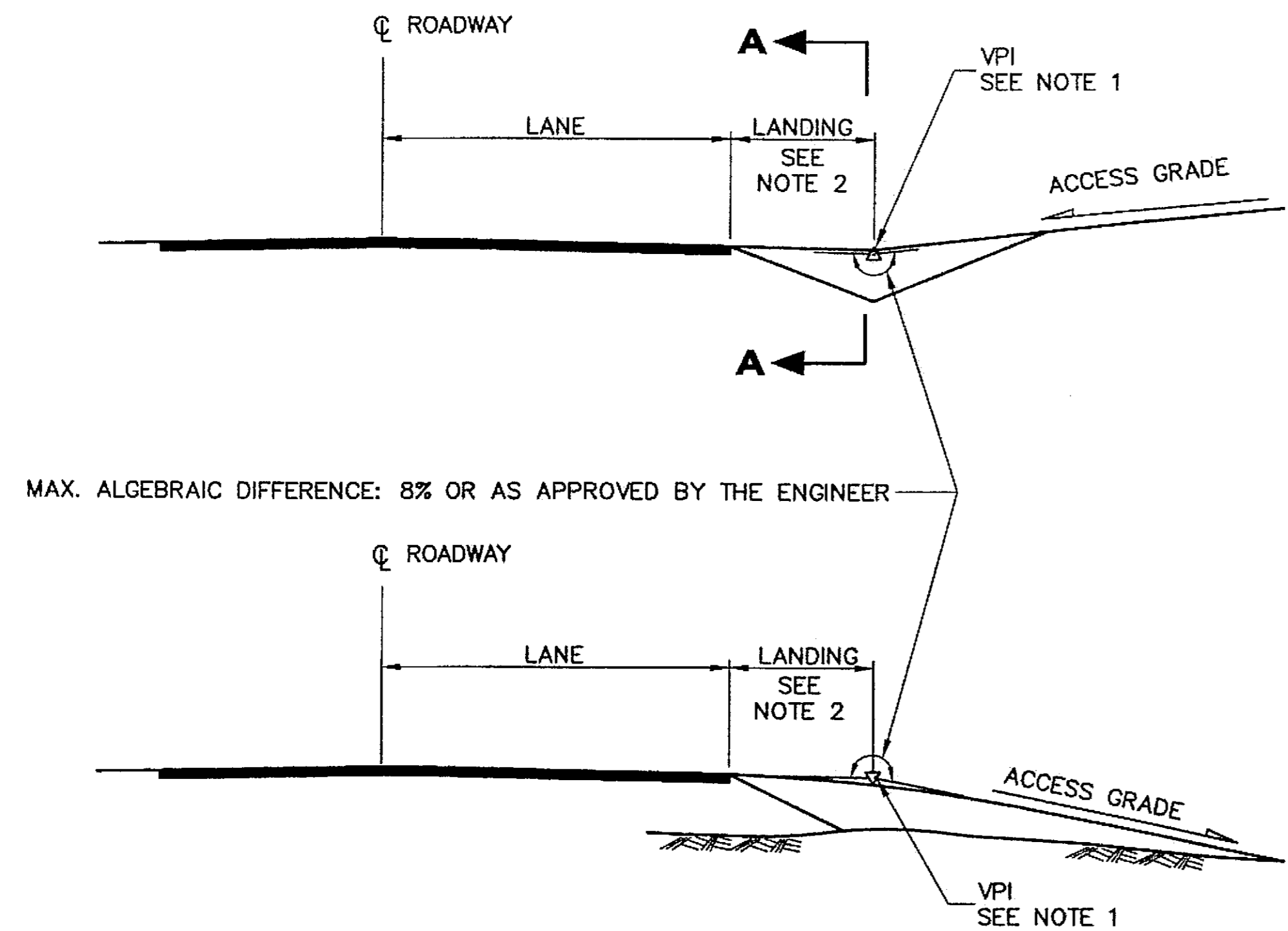
**DOWNSTREAM END ANCHOR DETAIL**  
NTS

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

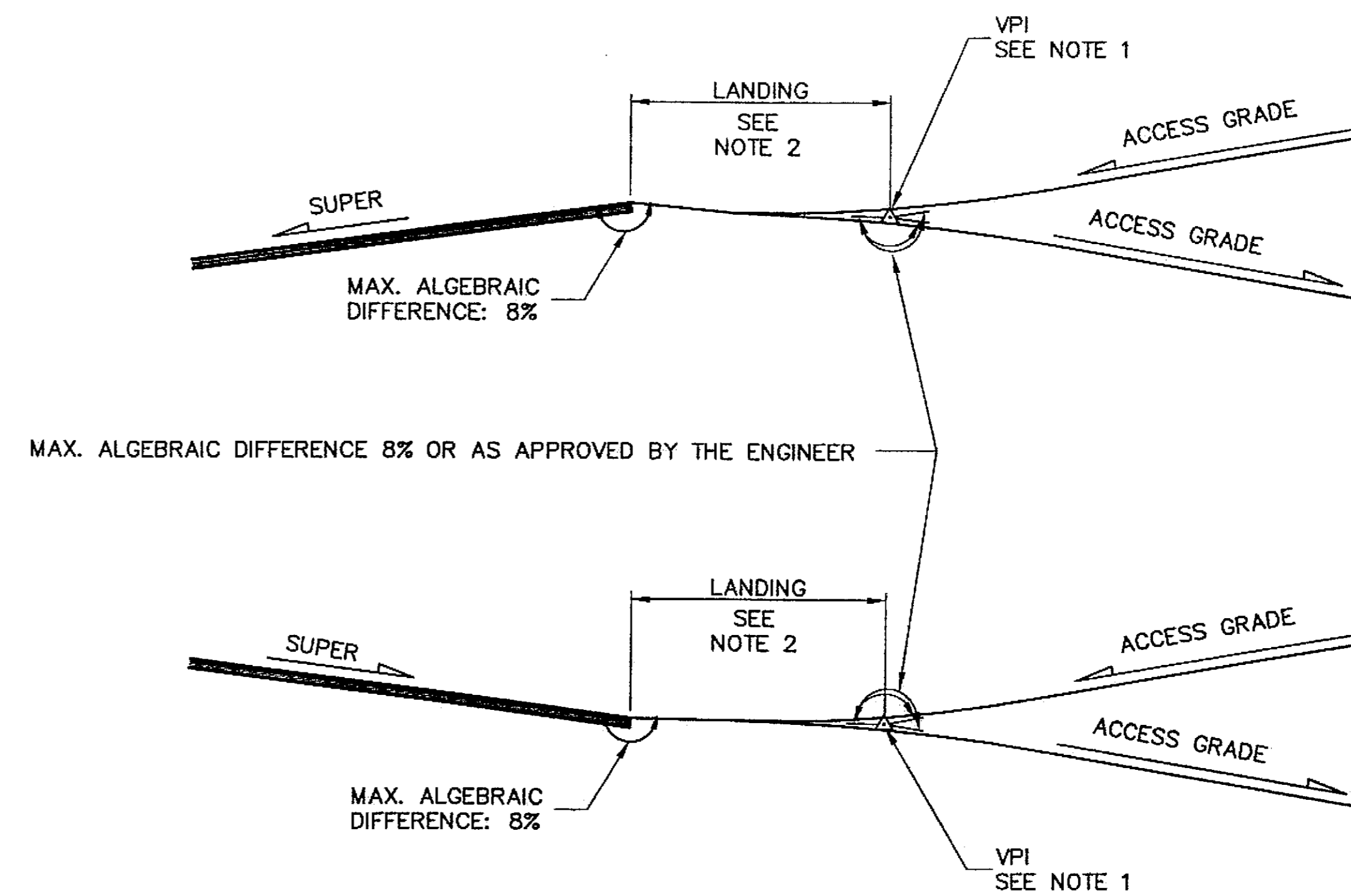
CHECKED BY: P. CARROLL  DESIGNED BY: M. TAYLOR DRAWN BY: R. SNYDER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION <b>SGY-DYEA ROAD          SAFETY IMPROVEMENTS          PROJECT #68576</b>																		
PATH: Q:\Sgy\68576\Planset\J_Details.dwg TAB: J2 Thu, 23/Sep/04 08:06AM mllyator		<b>ET-2000          INSTALLATION          DETAILS</b>																		
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th rowspan="2">PROJECT DESIGNATION</th> <th rowspan="2">YEAR</th> <th rowspan="2">SHEET NO.</th> <th rowspan="2">TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td>HHE-0997(7)</td> <td>2004</td> <td>J2</td> <td>34</td> </tr> </tbody> </table>		REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION				HHE-0997(7)	2004	J2	34		
REVISIONS			PROJECT DESIGNATION	YEAR					SHEET NO.	TOTAL SHEETS										
NO.	DATE	DESCRIPTION																		
			HHE-0997(7)	2004	J2	34														



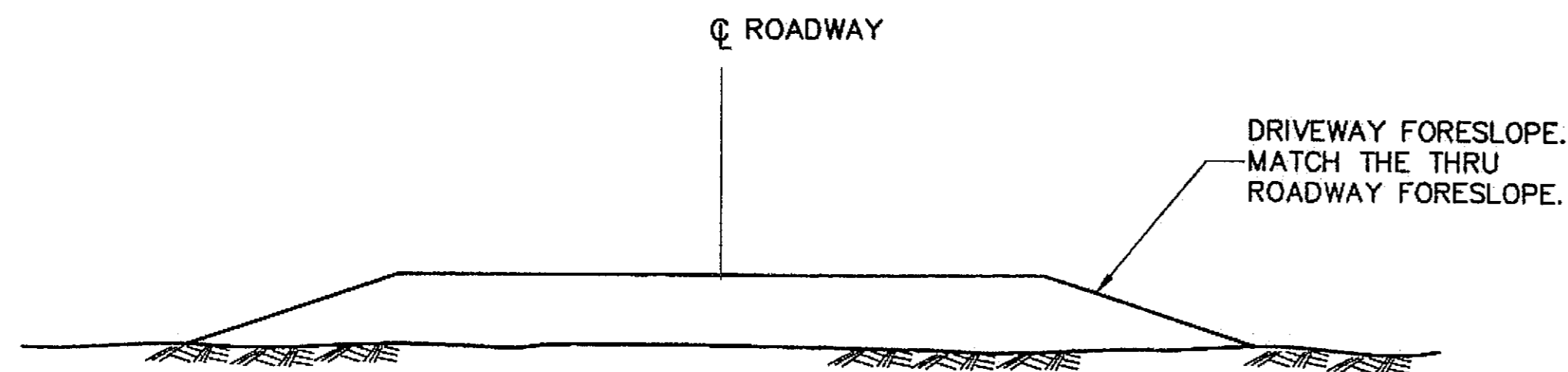




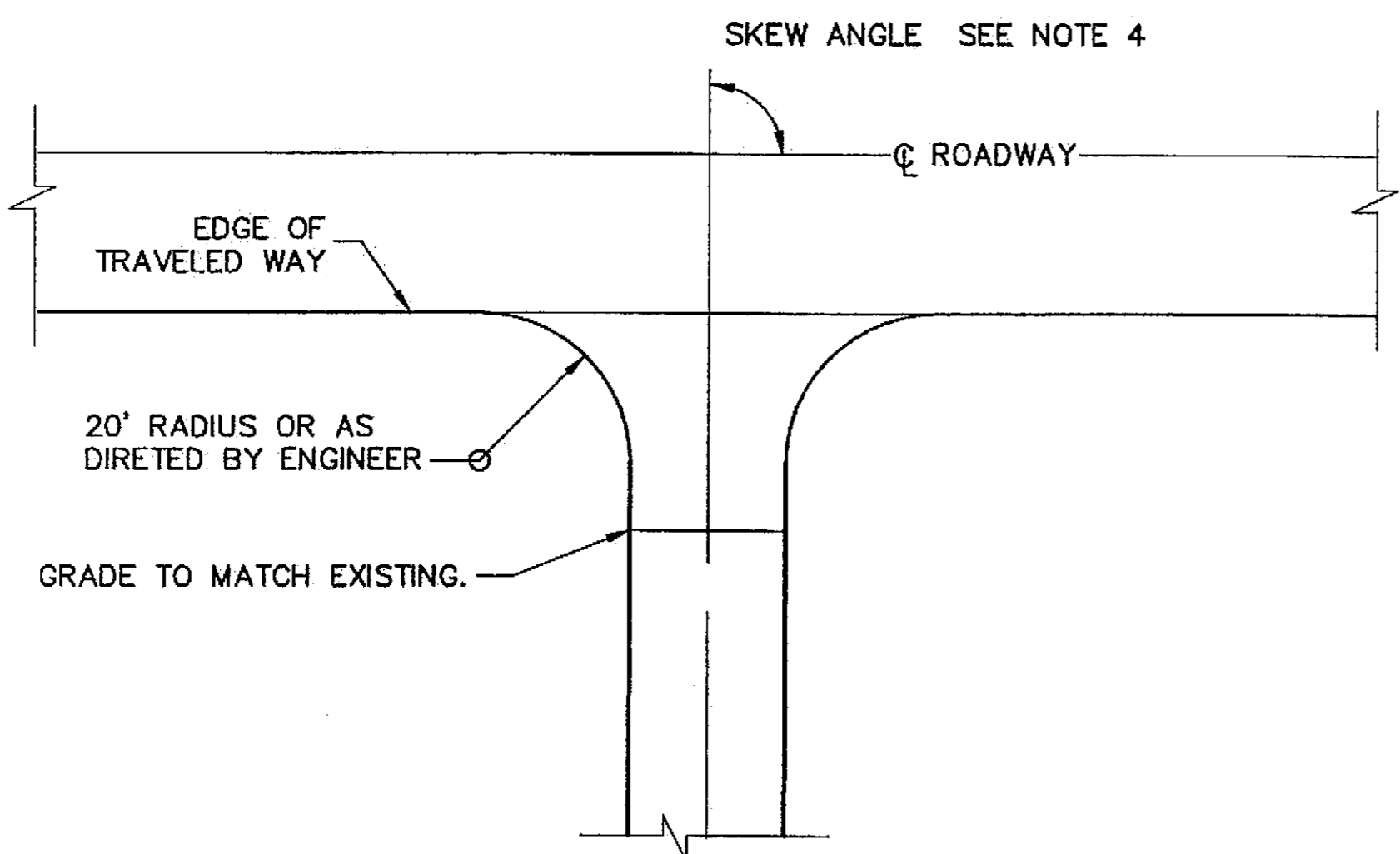
**RURAL DRIVEWAY PROFILES**



**DRIVEWAY PROFILES WITH SUPER**



**SECTION A-A**



**PLAN**

**DRIVEWAY DETAILS**

**NOTES:**

1. DRIVEWAY VERTICAL CURVE REQUIREMENTS:  
CREST - 3/4" MAXIMUM HUMP IN 10' CHORD  
SAG - 2" MAXIMUM DEPRESSION IN 10' CHORD  
OR AS DIRECTED BY THE ENGINEER.
2. LANDING LENGTH AND SLOPE AS DIRECTED BY THE ENGINEER.
3. MAXIMUM ACCESS GRADE 15% OR AS APPROVED BY THE ENGINEER.
4. SKEW ANGLE ( ACUTE ANGLE OF INTERSECTING CENTERLINES ) MUST NOT BE LESS THAN 60 DEGREES.

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR  
DRAWN BY: R. SNYDER

9/23/04

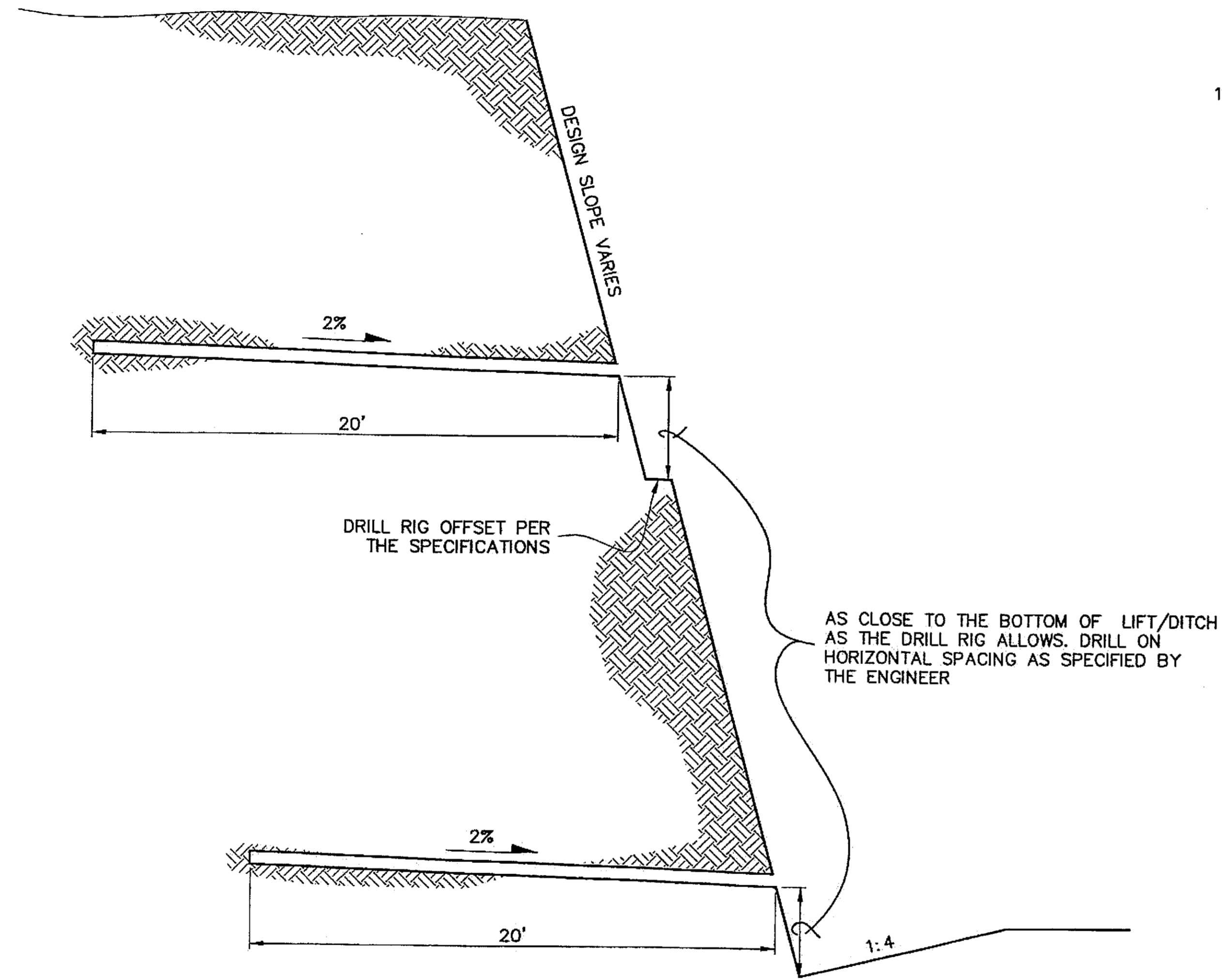
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TAB: J4 Thu, 23/Sep/04 08:06AM mitaylor

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

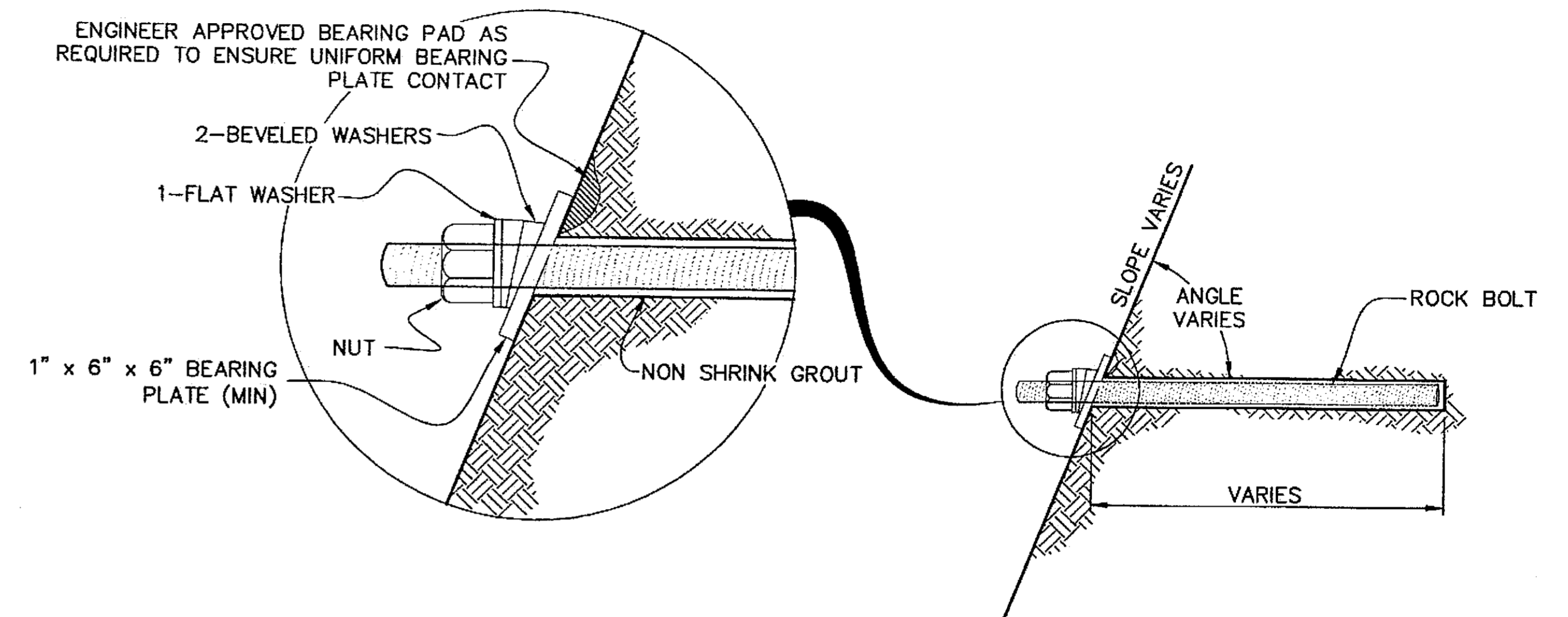
**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**DRIVEWAY  
DETAILS**

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			HHE-0997(7)	2004	J4	34



**ROCK SLOPE DRAIN HOLE  
DETAIL**




**ROCK BOLT DETAIL**

**NOTES:**

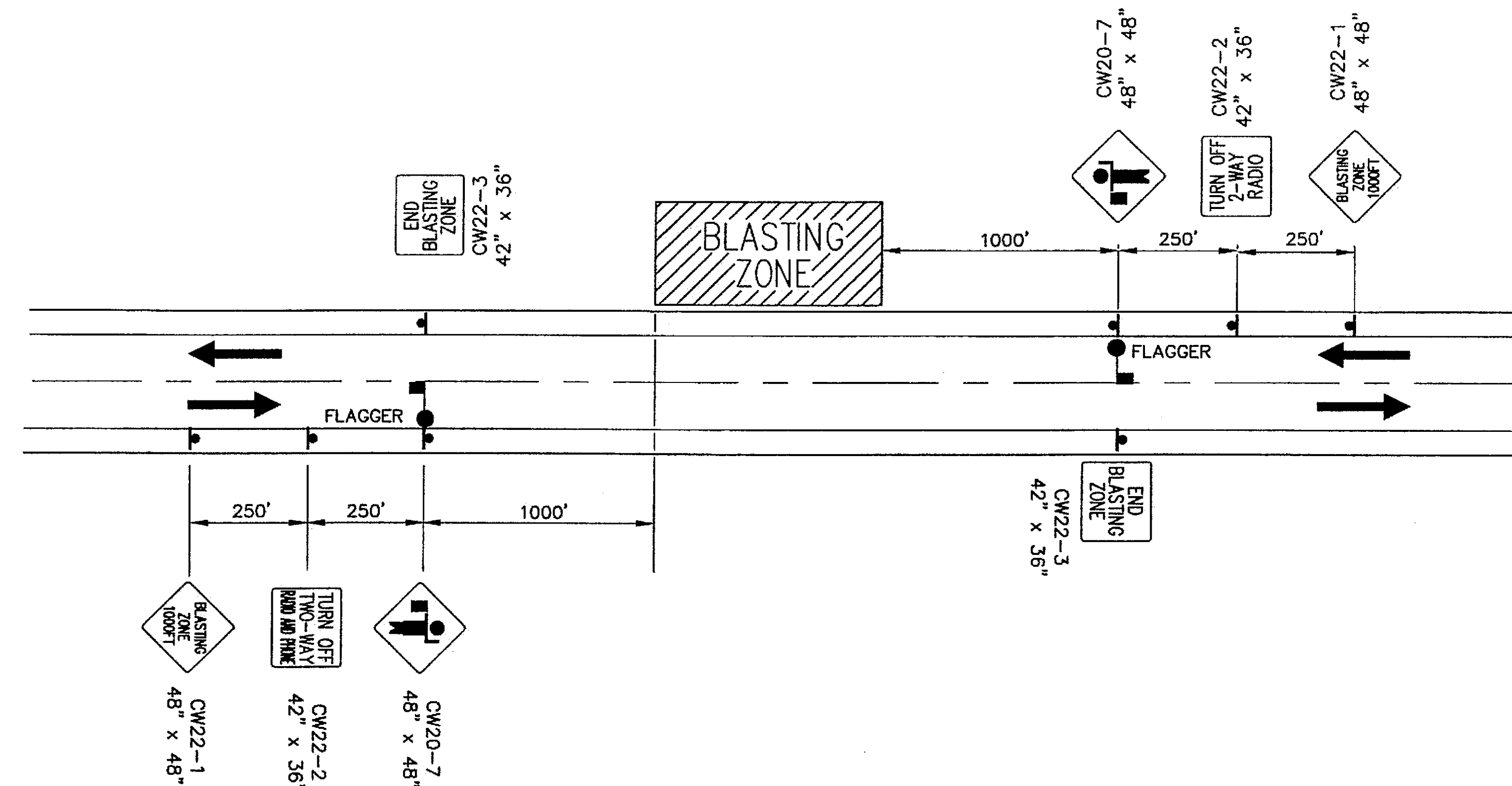
1. DRAIN HOLES AND ROCK BOLTS WILL BE PAID UNDER ITEM 203 (19) SLOPE STABILIZATION.
2. PLACEMENT WILL BE AT THE DIRECTION OF THE ENGINEER.
3. SEE SECTION 203 OF SPECIAL PROVISIONS.

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

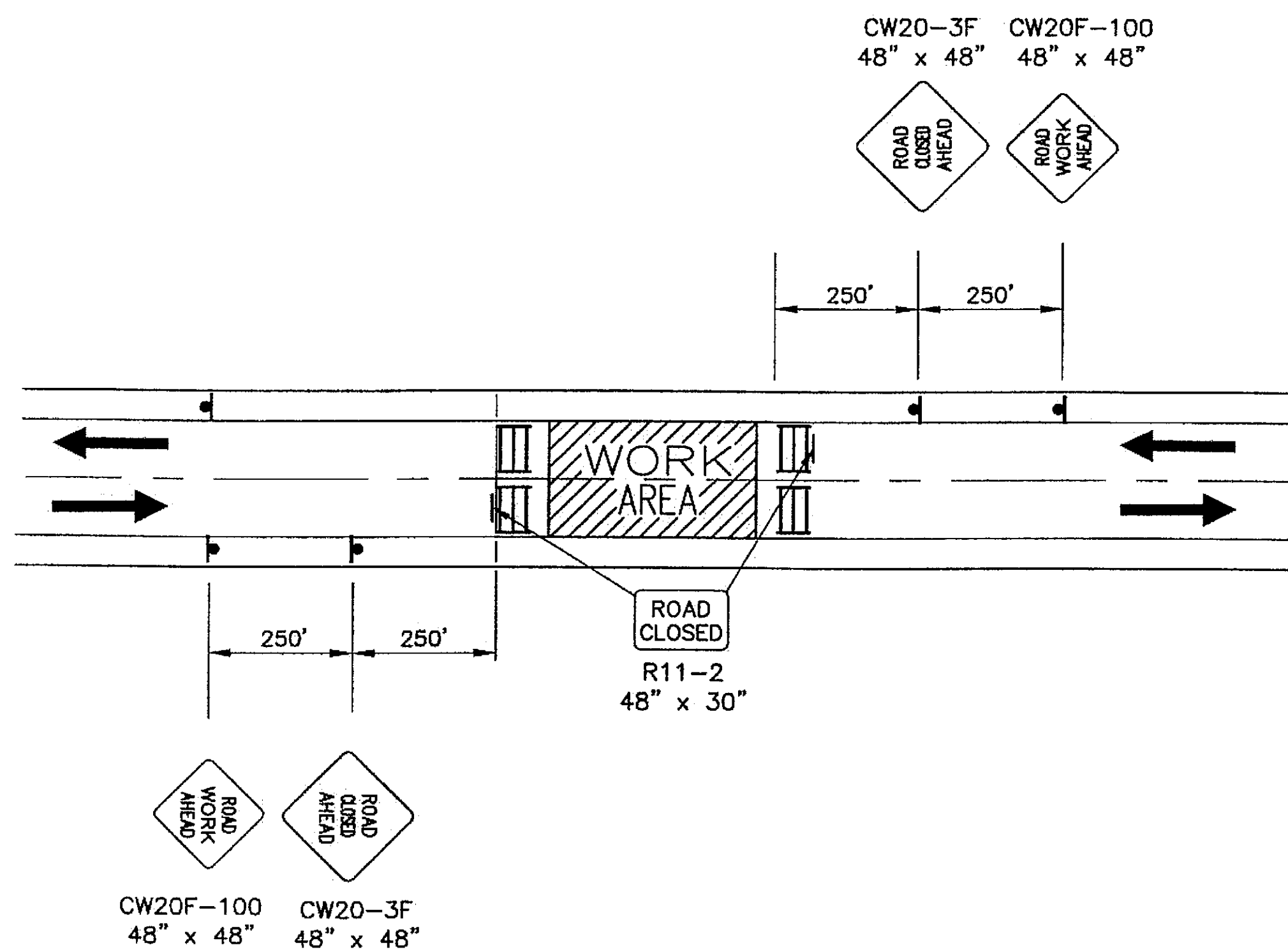
CHECKED BY: P. CARROLL  DESIGNED BY: M. TAYLOR DRAWN BY: R. SNYDER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION <b>SGY-DYEA ROAD          SAFETY IMPROVEMENTS          PROJECT #68576</b>												
PATH: Q:\Sgy\68576\Plonset\J_Details.dwg TAB: J5 Thu, 23/Sep/04 08:07AM mtaylor		<b>ROCK BOLT          DETAILS</b>												
<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> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION <b>HHE-0997(7)</b>	YEAR <b>2004</b>	SHEET NO. <b>J5</b>	TOTAL SHEETS <b>34</b>
REVISIONS														
NO.	DATE	DESCRIPTION												

### Traffic Control Notes:

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
3. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
4. CHANNELIZATION DEVICES WILL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL IF USED AT NIGHT.
5. FLAGGERS SHALL BE IN RADIO CONTACT WITH ONE ANOTHER, AND WORK WITH THE WORK ZONE SITE TRAFFIC SUPERVISOR.
6. ACCESS TO HOMES AND BUSINESSES WILL BE KEPT OPEN AT ALL TIMES. WORK ON ACCESS TO ANY HOME OR BUSINESS THAT HAS ONLY ONE ACCESS, WILL BE DONE WITH HALF WIDTH CONSTRUCTION, AND SHALL BE CONTROLLED BY A FLAGGER.
7. ROAD CLOSURES SHALL BE ESTABLISHED AT THE NEAREST TURN-AROUND POINT IN ACCORDANCE WITH SPECIFICATION 643-3.02.
8. THERE SHALL BE A MINIMUM OF 1,000 FEET SEPARATION BETWEEN MULTIPLE WORK ZONES.
9. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS FOR WHICH THOSE SIGNS ARE INTENDED EXIST.
10. FLOOD LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.



**Typical Blasting Zone**



**Road Closure Plan**

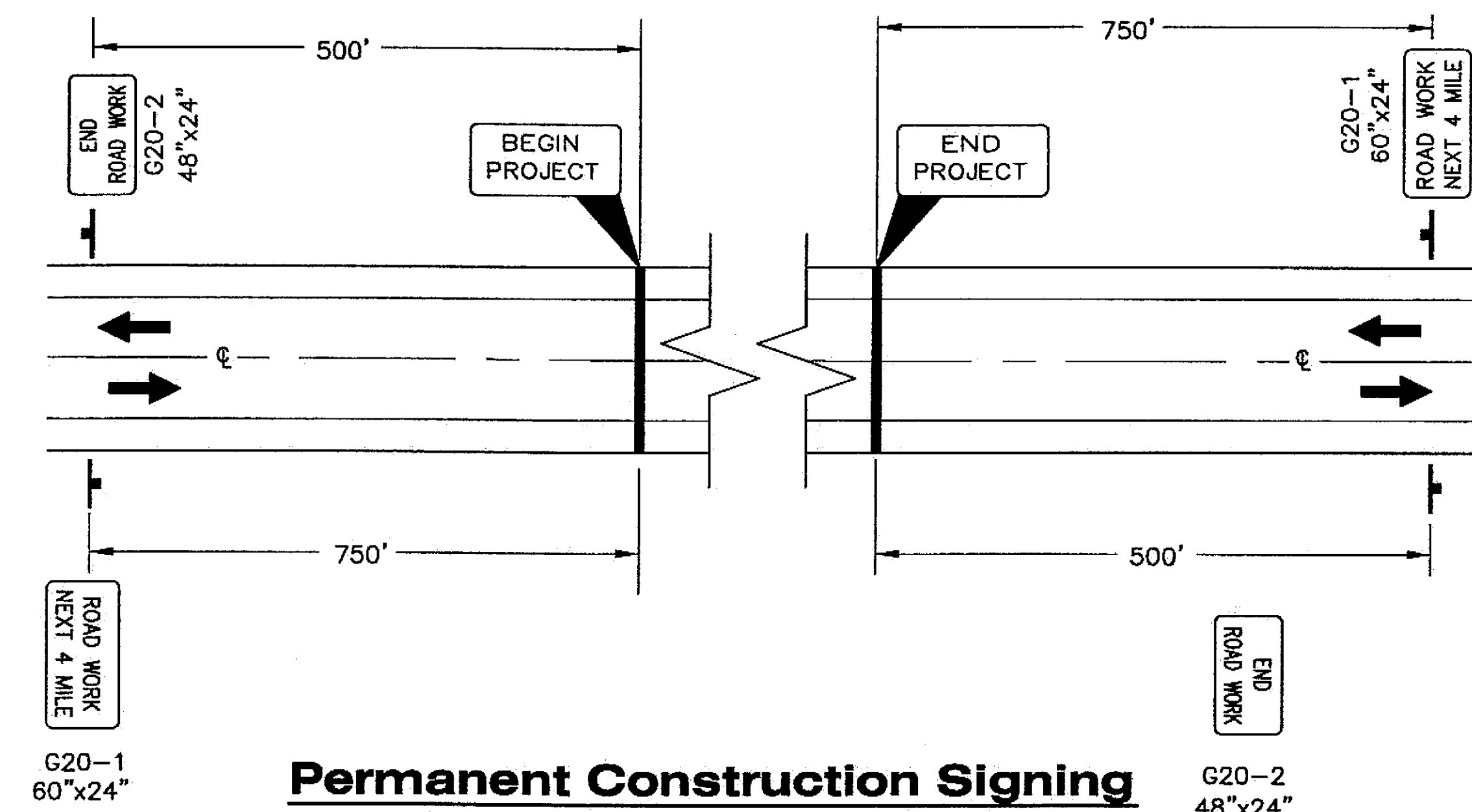
### LEGEND

- ..... SIGN
- ..... CONE
- ..... DRUM
- ||||| ..... TYPE III BARRICADE
- ..... FLAGGING STATION

WHERE  
 L = LENGTH OF TAPER  
 W = WIDTH OF OFFSET  
 T = TAPER RATE  
 L = W x T

### TCP TABLE SETUP

SPEED (MPH)	BUFFER/LENGTH (ft.)	CONE/DRUM SPACING (ft.)	TAPER FACTOR (T)
20	35	20	7:1
25	55	25	10:1
30	85	30	15:1
35	120	35	20:1
40	170	40	30:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



**Permanent Construction Signing**

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CHECKED BY: M. LUKSHIN

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

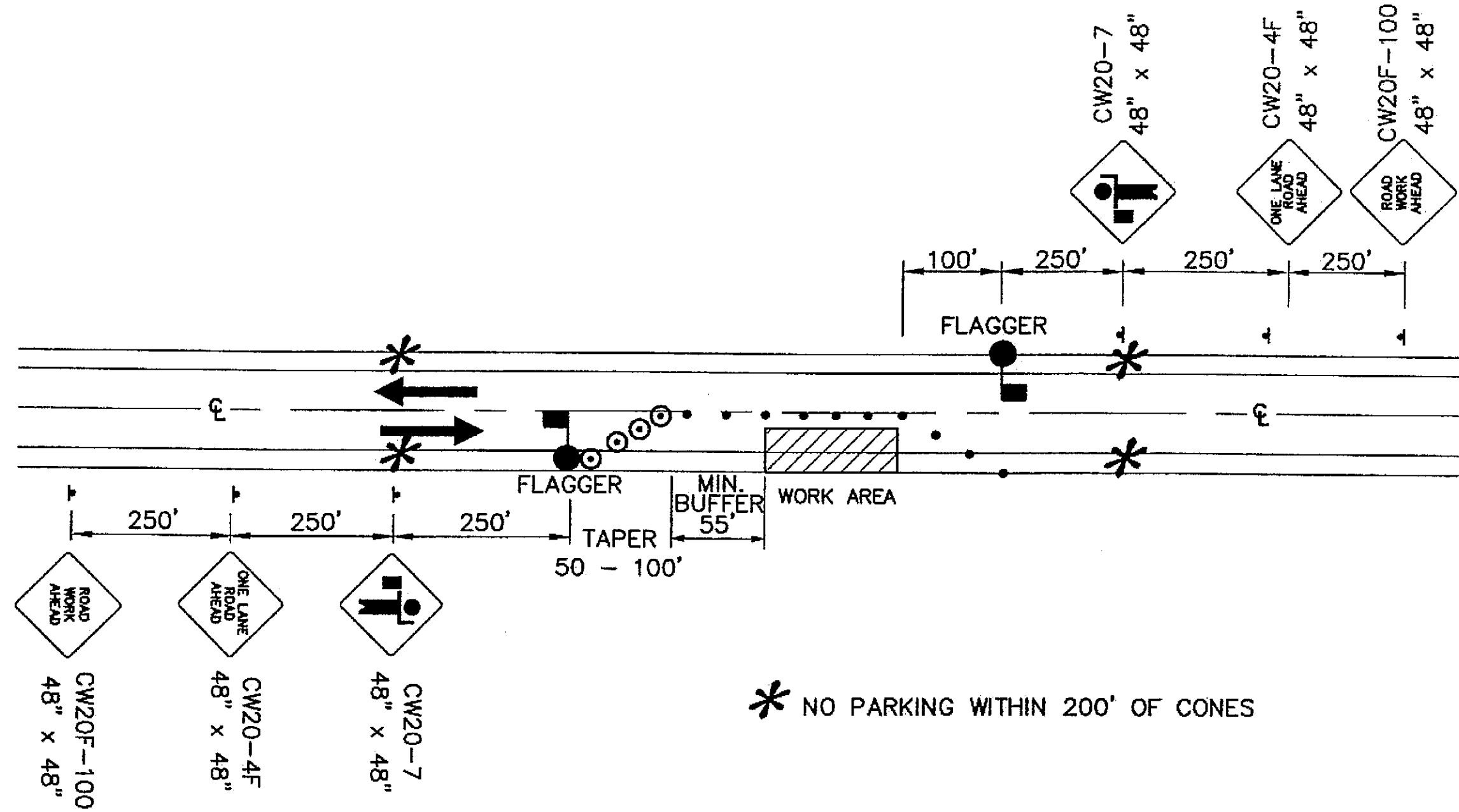
**SGY-DYEA ROAD SAFETY IMPROVEMENTS PROJECT #68576**

**TRAFFIC CONTROL PLAN**

DESIGNED BY: R. PURVES  
 DRAWN BY: R. SNYDER

PATH: O:\Sgy\68576\PlanSet\S\_TCP.dwg  
 TAB: S1 Thu, 23/Sep/04 08:08AM mltylor

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0997(7)	2004	S1	34



**Two Lane Road - Single Lane Closure  
Double Flagger**

\* NO PARKING WITHIN 200' OF CONES

**LEGEND**

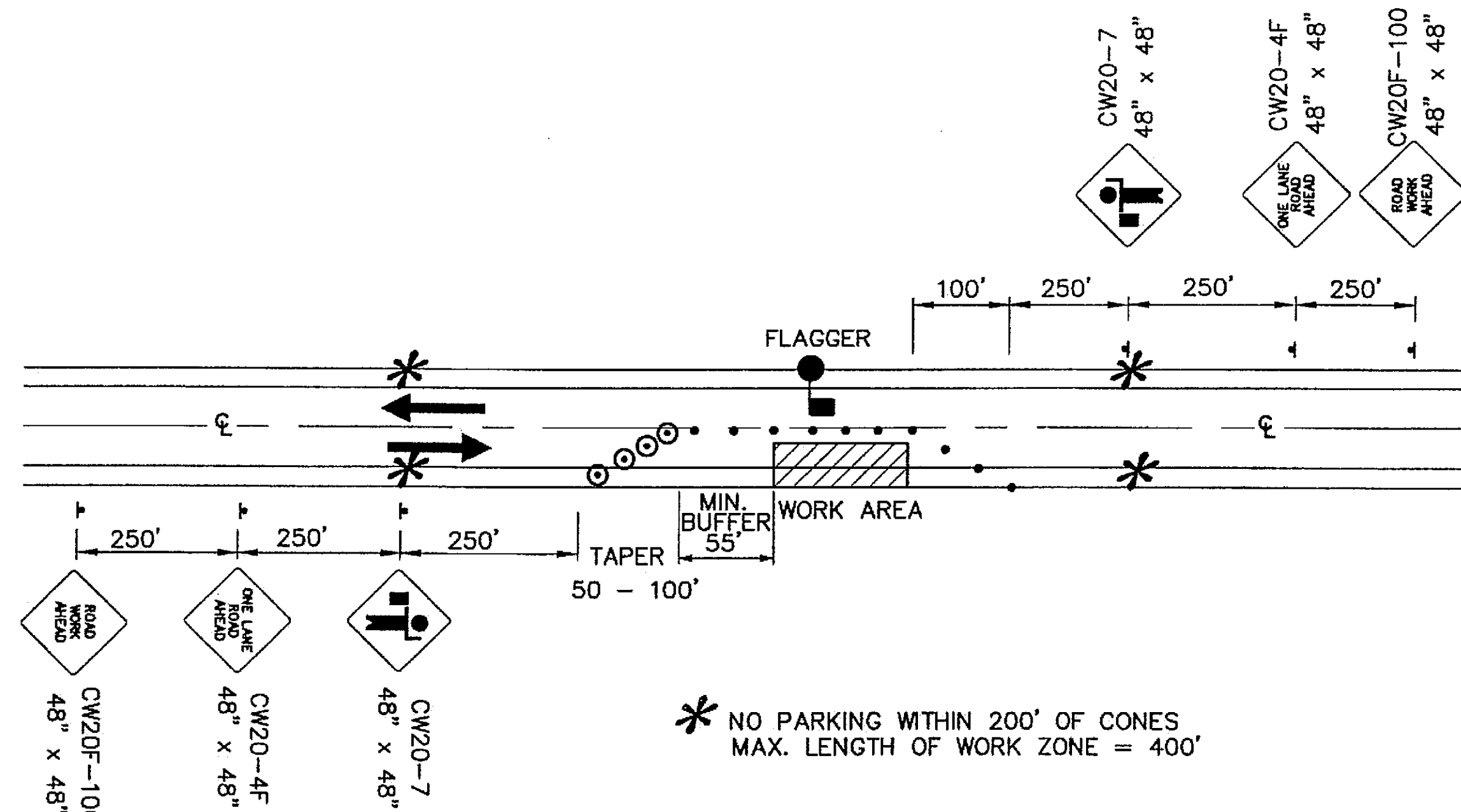
- ..... SIGN
- ..... CONE
- ⊙ ..... DRUM
- ||||| ..... TYPE III BARRICADE
- ..... FLAGGING STATION

**WHERE**

- L = LENGTH OF TAPER
- W = WIDTH OF OFFSET
- T = TAPER RATE
- L = W x T

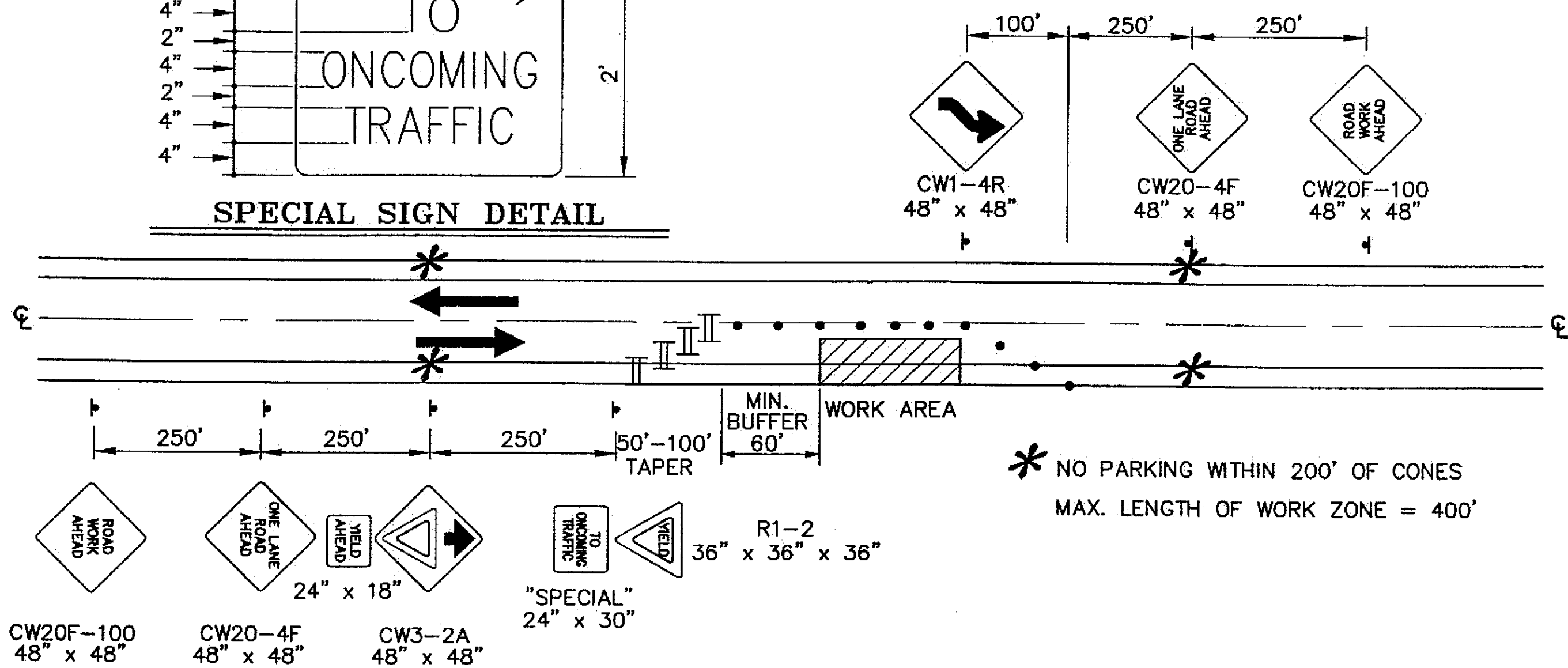
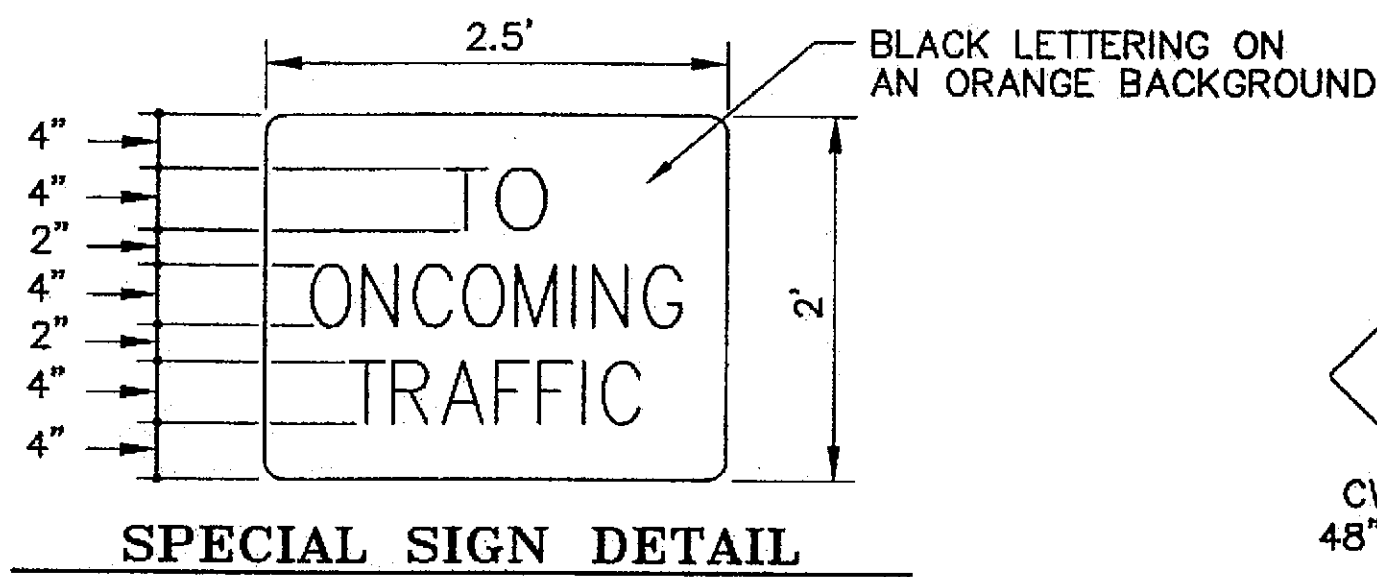
**TCP TABLE SETUP**

SPEED (MPH)	BUFFER/LENGTH (ft.)	CONE/DRUM SPACING (ft.)	TAPER FACTOR (T)
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25	55	25	10:1
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35	120	35	20:1
40	170	40	30:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



**Two Lane Road - Single Lane Closure  
Single Flagger**

\* NO PARKING WITHIN 200' OF CONES  
MAX. LENGTH OF WORK ZONE = 400'



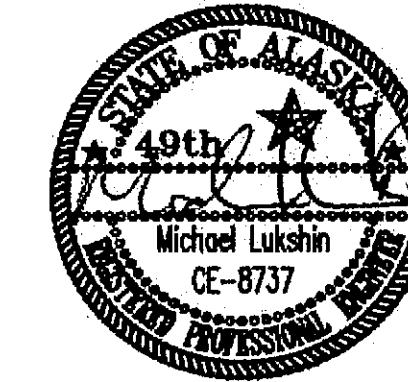
**Two Lane Road-Single Lane Closure  
Yield Sign**

**FLAGGER AND YIELD SIGN NOTES**

1. A SINGLE LANE CLOSURE UTILIZING THE YIELD SIGN (SEE DETAIL ON THIS SHEET) MAY BE USED WHEN:
  - A. THE WORK ZONE IS LESS THAN 400 FEET LONG.
  - B. APPROACHING TRAFFIC IS VISIBLE 500 FEET BEYOND THE OPPOSITE END OF THE WORK ZONE.
  - C. CONSTRUCTION EQUIPMENT DOES NOT ENCROACH INTO THE ADJACENT (OPEN) LANE.
2. A SINGLE LANE CLOSURE UTILIZING A SINGLE FLAGGER (SEE DETAIL ON THIS SHEET) MAY BE USED WHEN:
  - A. THE WORK ZONE IS LESS THAN 400 FEET LONG.
  - B. TRAFFIC APPROACHING THE WORK ZONE FROM EITHER DIRECTION IS VISIBLE TO THE FLAGGER.
3. A SINGLE LANE CLOSURE UTILIZING TWO FLAGGERS (SEE DETAIL ON THIS SHEET) SHALL BE USED WHEN THE STIPULATIONS OF NOTES 1 AND 2 ARE NOT MET OR WHEN DIRECTED BY THE ENGINEER.

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: M. LUKSHIN



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**TRAFFIC CONTROL  
PLAN**

DESIGNED BY: R. PURVES  
DRAWN BY: R. SNYDER

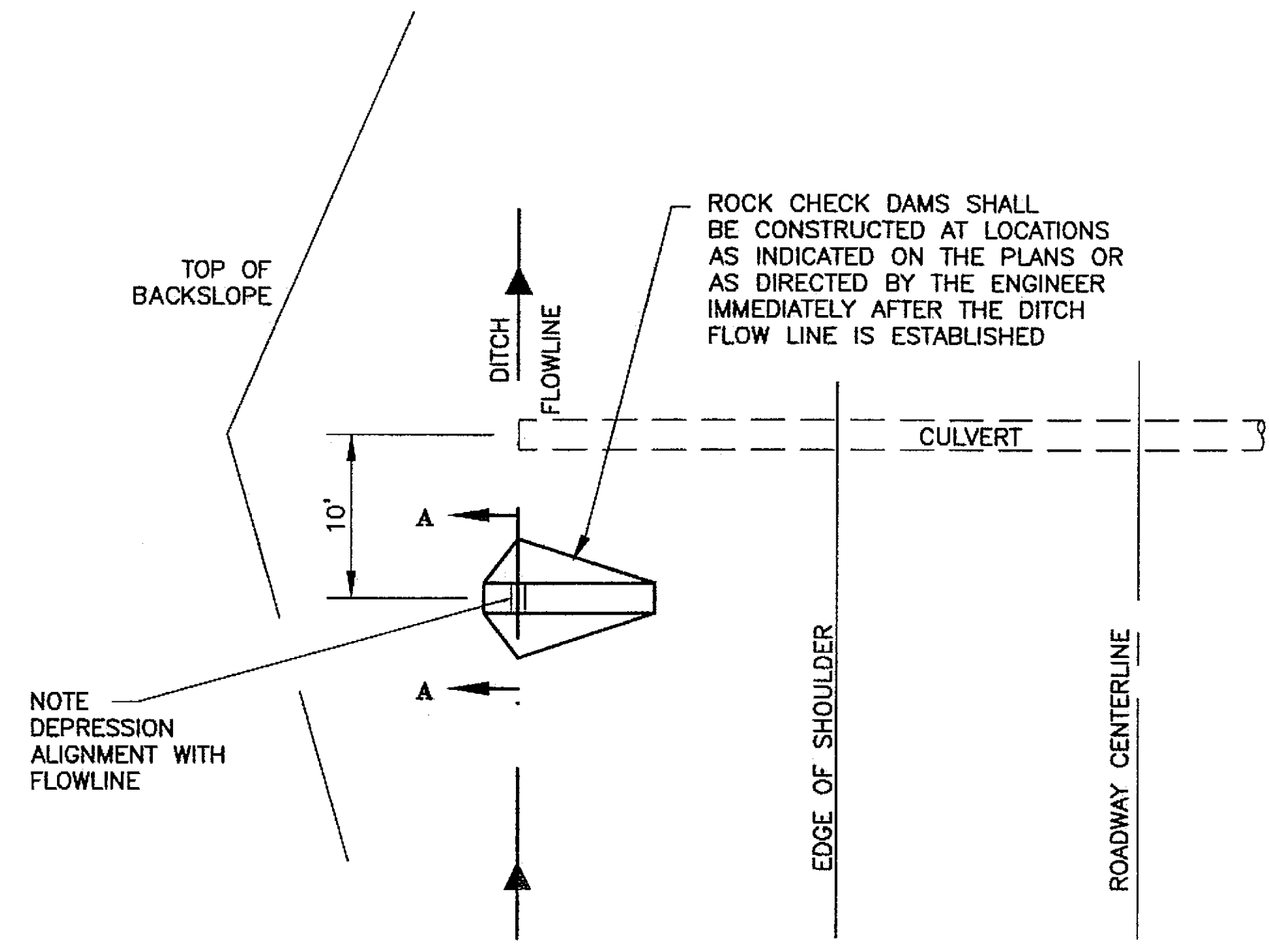
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TAB: S2 Thu, 23/Sep/04 08:08AM mlitaylor

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NO.	DATE DESCRIPTION				
		HHE-0997(7)	2004	S2	34

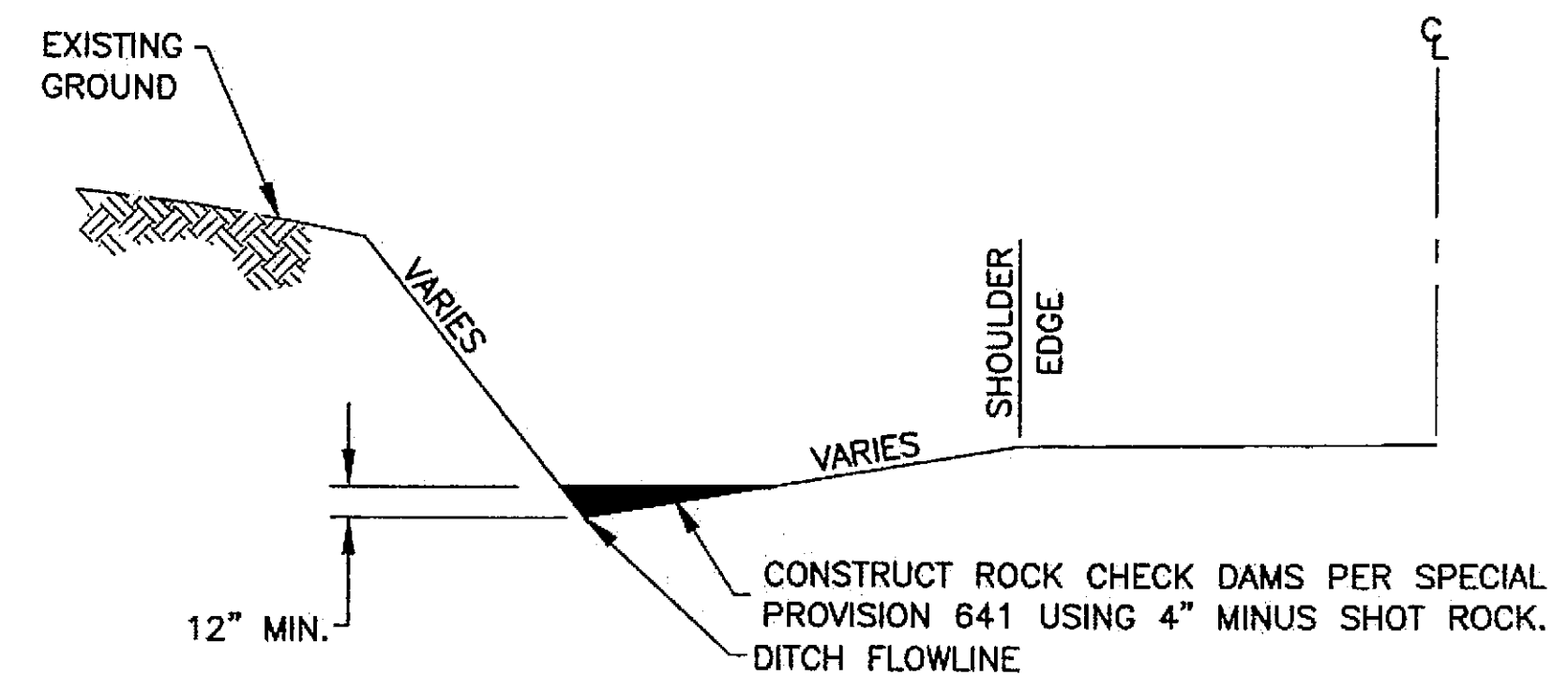
**NOTES:**

1. INSTALL EROSION AND SEDIMENT CONTROL DEVICES FOR EARTH DISTURBING ACTIVITIES.
2. MAINTAIN DEVICES. MONITOR DAILY. EXCAVATE CHECK DAMS WHEN 4" OR MORE SEDIMENT.
4. IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL CHECK DAMS MAY BE REQUIRED.
5. STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH SEEDING OR OTHER EFFECTIVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE GRADED AND SEEDED AREAS HAVE ACHIEVED 70% VEGETATIVE COVER.
6. REFER TO PLAN SHEETS FOR LOCATION OF CHECK DAMS.

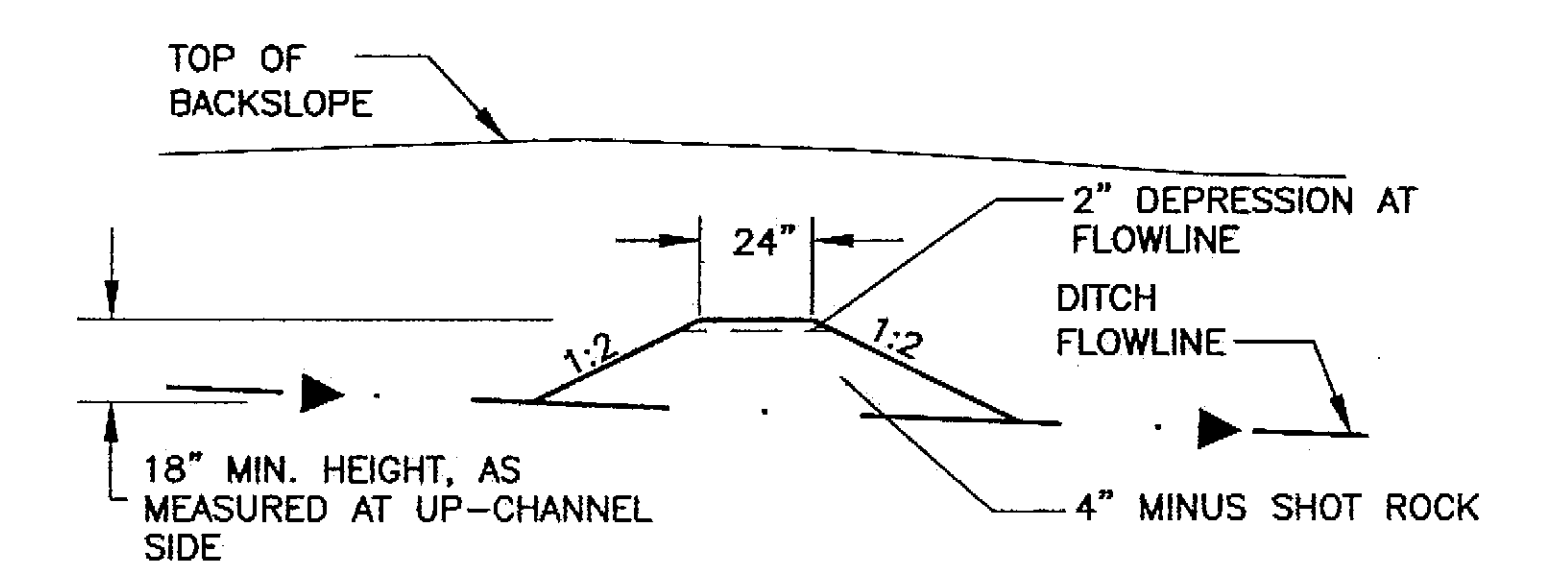
TOTAL AREA OF PROJECT:	7.50 ACRES
AREA OF DISTURBED GROUND:	4.00 ACRES
AVERAGE RAINFALL:	27 INCHES
AVERAGE SNOWFALL:	51 INCHES



**Plan**



**Elevation**

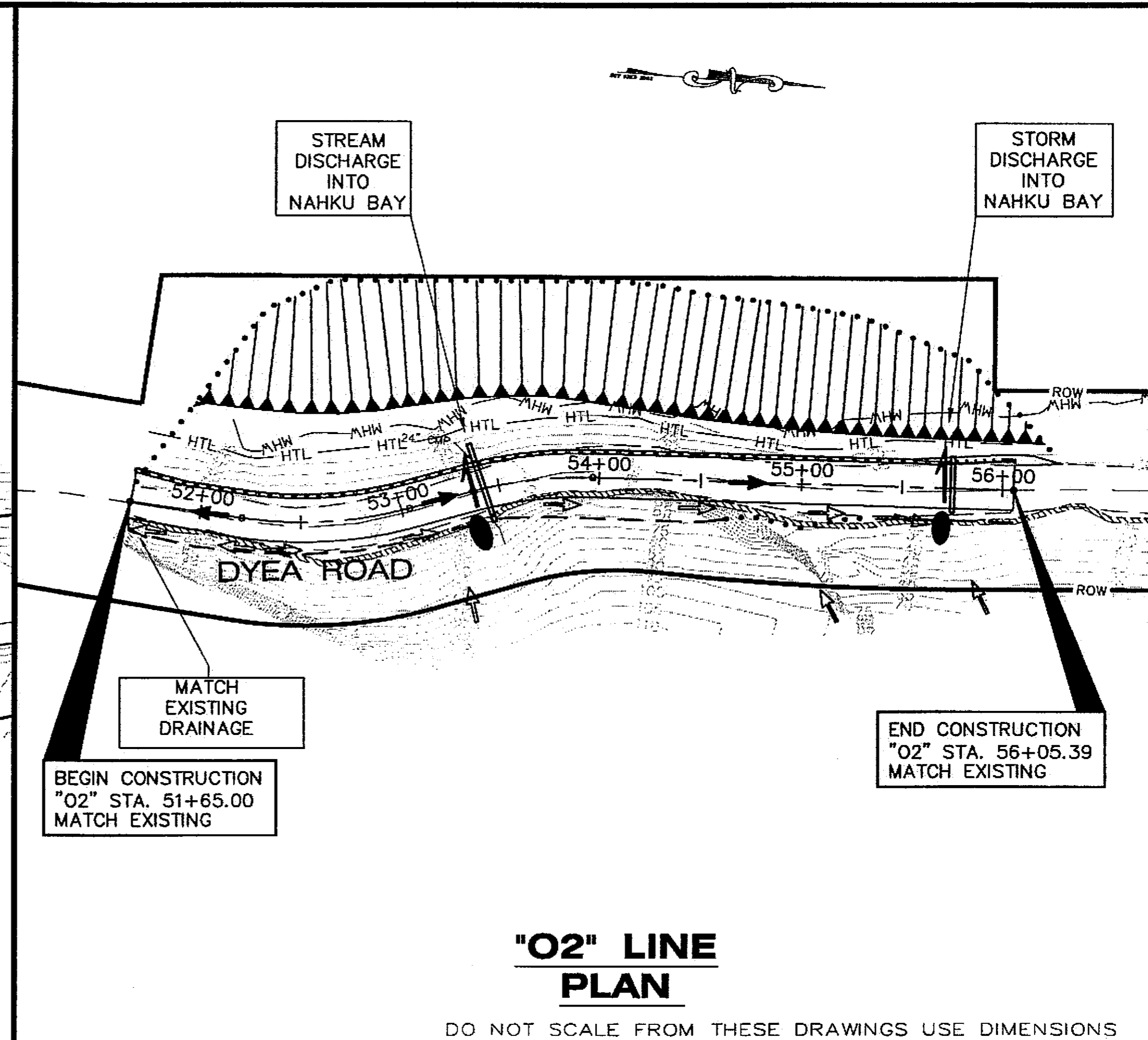
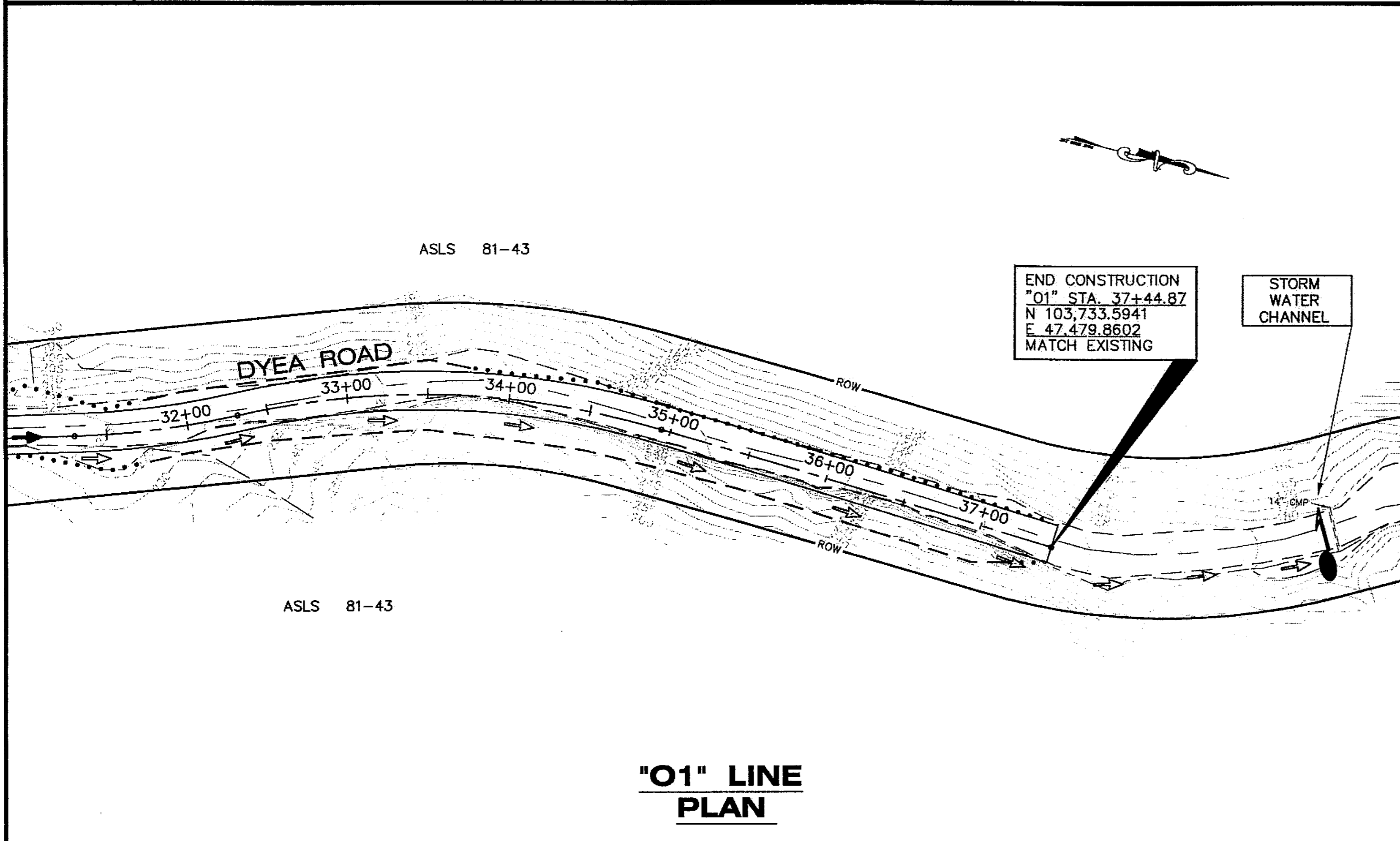
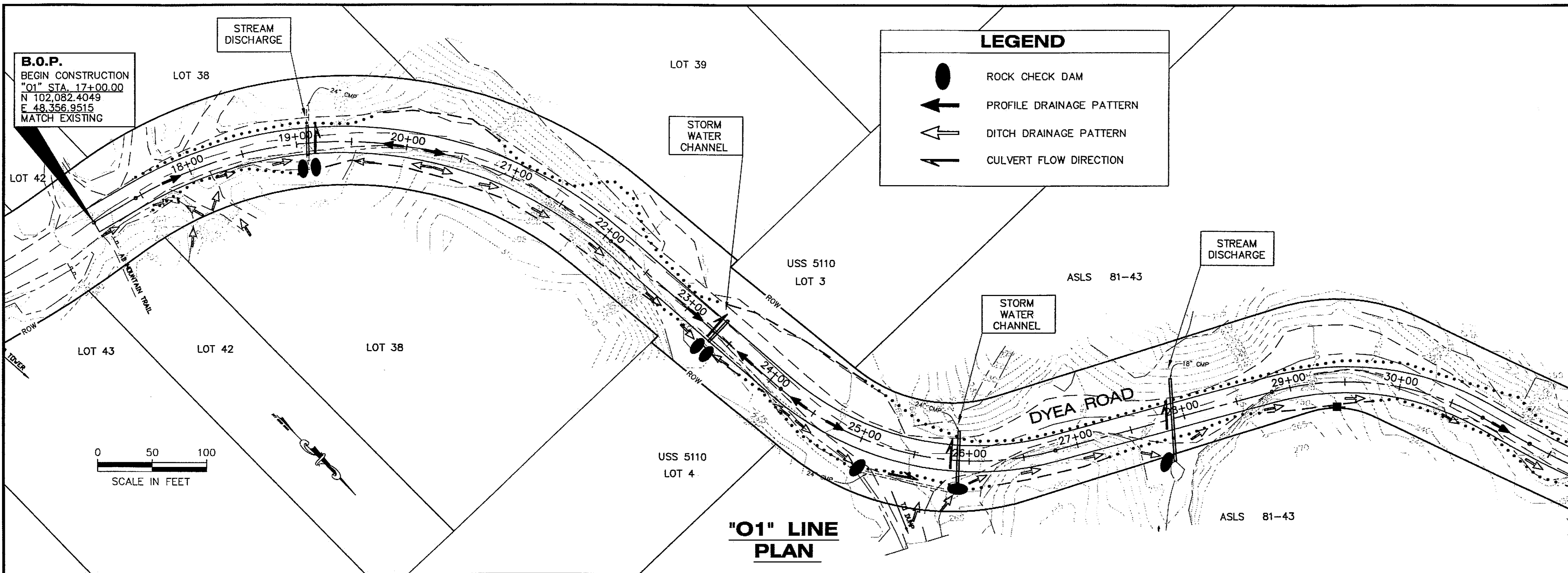


**Section A-A**

**ROCK CHECK DAM DETAILS**

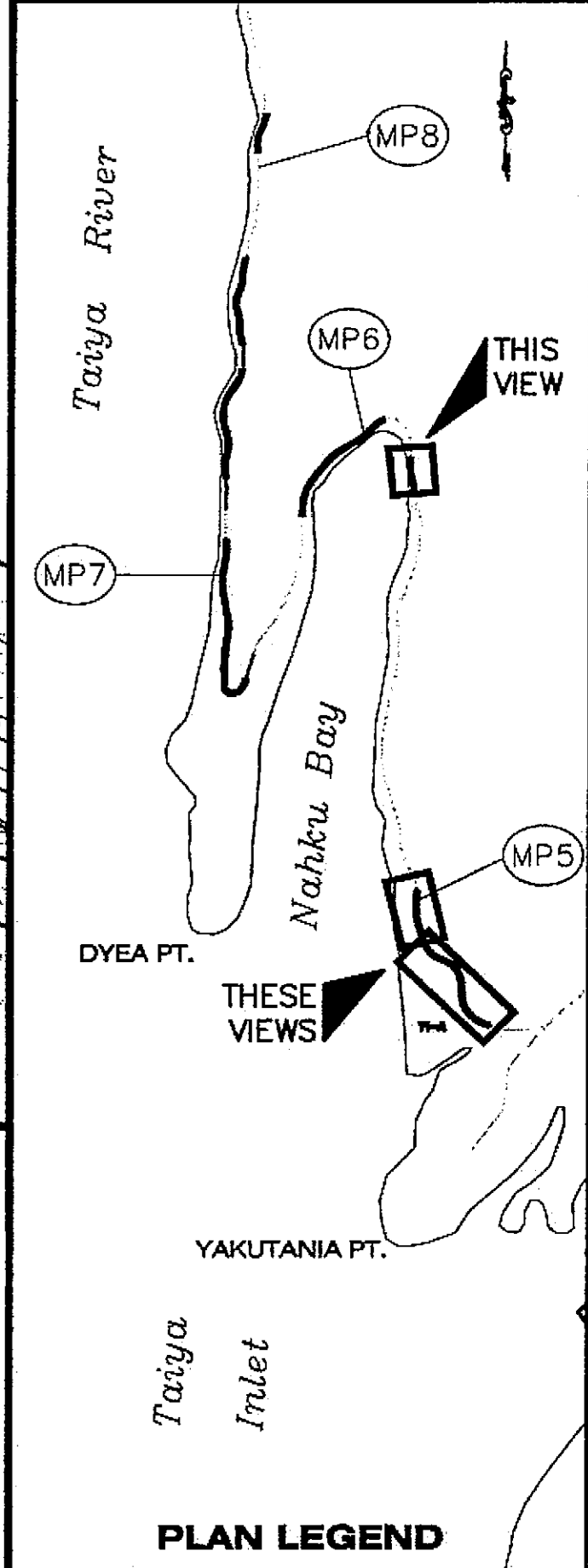
**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION										
	<b>SGY-DYEA ROAD                  SAFETY IMPROVEMENTS                  PROJECT #68576</b>										
<b>ESCP DETAILS</b>											
CHECKED BY: P. CARROLL DESIGNED BY: M. TAYLOR DRAWN BY: R. SNYDER	PATH: Q:\Sgy\68576\PlanSet\T_ErosionDets.dwg TAB: T1 Thu, 23/Sep/04 08:08AM mitaylor										
<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> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION <b>HHE-0997(7)</b>	YEAR <b>2004</b>
REVISIONS											
NO.	DATE	DESCRIPTION									
	SHEET NO. <b>T1</b>	TOTAL SHEETS <b>34</b>									

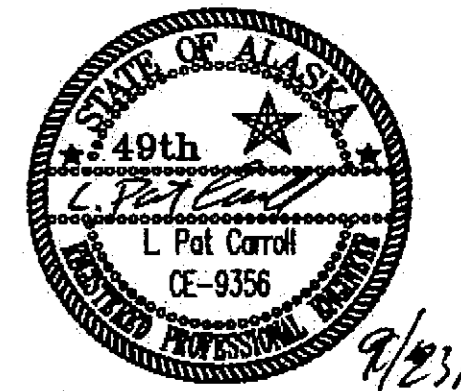


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 Thu, 23/Sep/04 08:11AM mltaylor  
 TAB: T2

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR  
 DRAWN BY: R. SNYDER

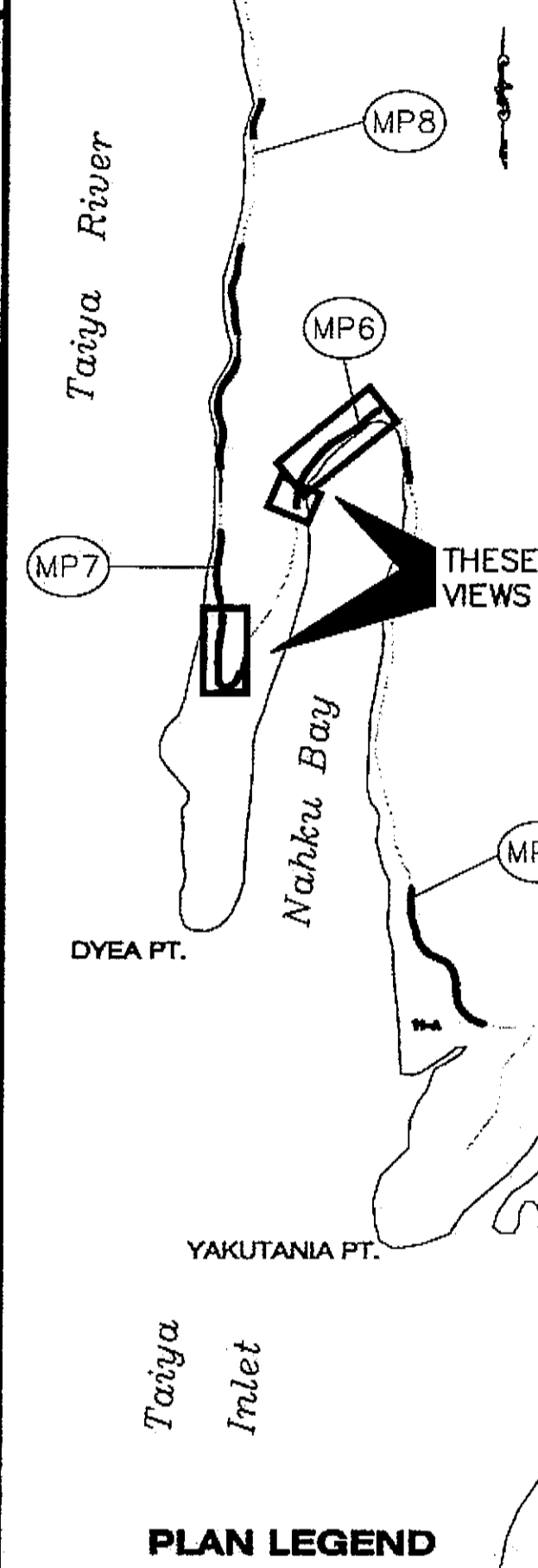
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 & PUBLIC FACILITIES  
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 SERVICES DIVISION

**SGY-DYEY ROAD  
 SAFETY IMPROVEMENTS  
 PROJECT #68576  
 EROSION &  
 SEDIMENT  
 CONTROL PLAN**

PROJECT DESIGNATION	
HHE-0997(7)	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
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DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL



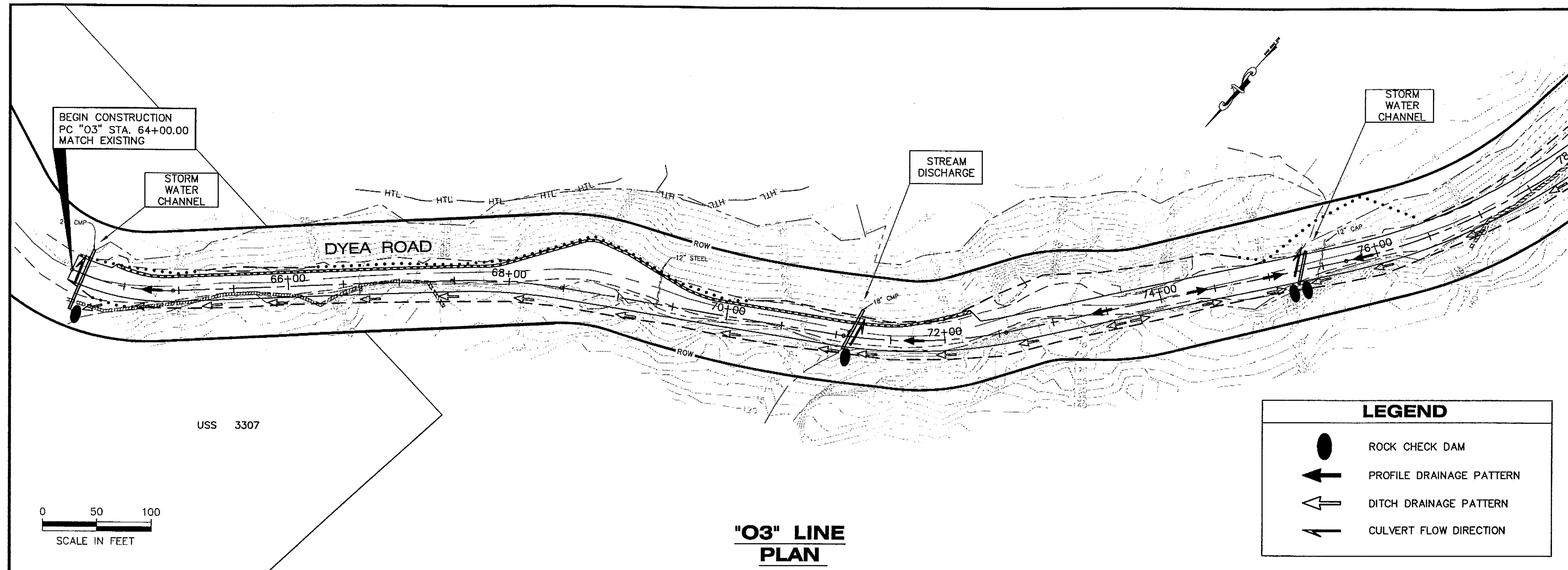
DESIGNED BY: M. TAYLOR  
 DRAWN BY: R. SNYDER

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 S.E. REGION DESIGN & ENGINEERING  
 SERVICES DIVISION

**SGY-DYEYEA ROAD  
 SAFETY IMPROVEMENTS  
 PROJECT #68576  
 EROSION &  
 SEDIMENT  
 CONTROL PLAN**

PROJECT DESIGNATION  
**HHE-0997(7)**

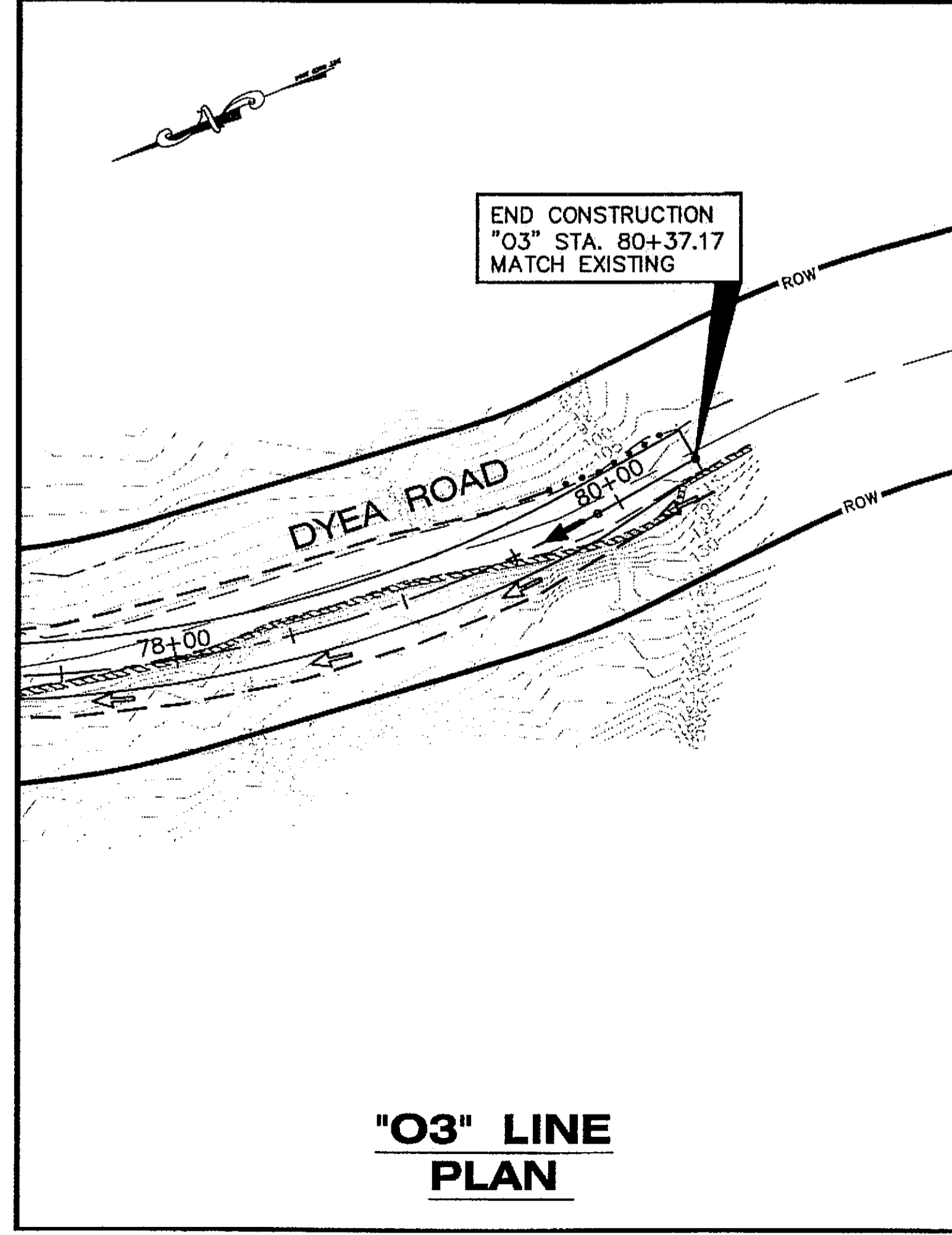
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ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>T3</b>	<b>34</b>



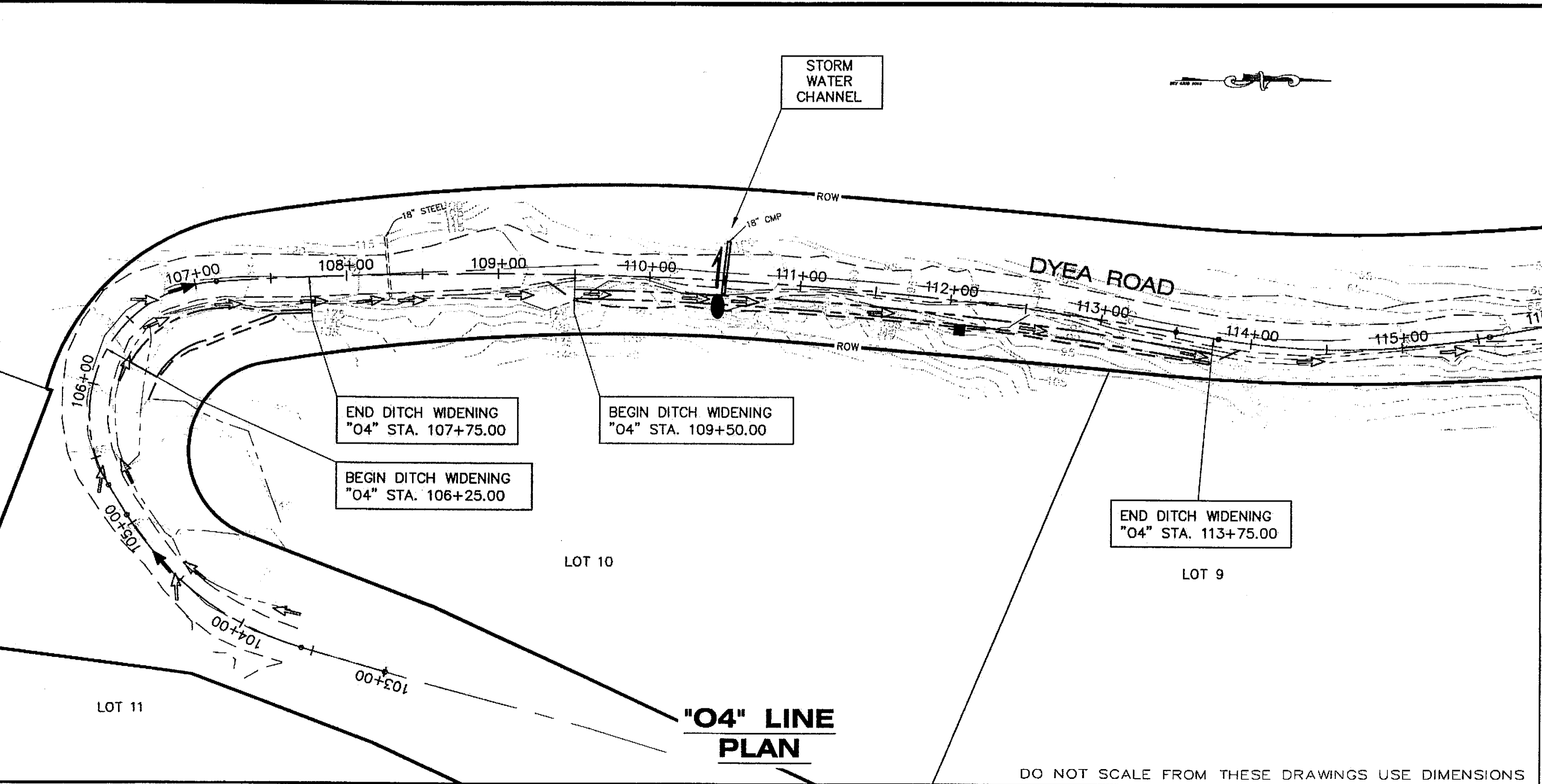
**"03" LINE  
 PLAN**

**LEGEND**

- ROCK CHECK DAM
- PROFILE DRAINAGE PATTERN
- DITCH DRAINAGE PATTERN
- CULVERT FLOW DIRECTION



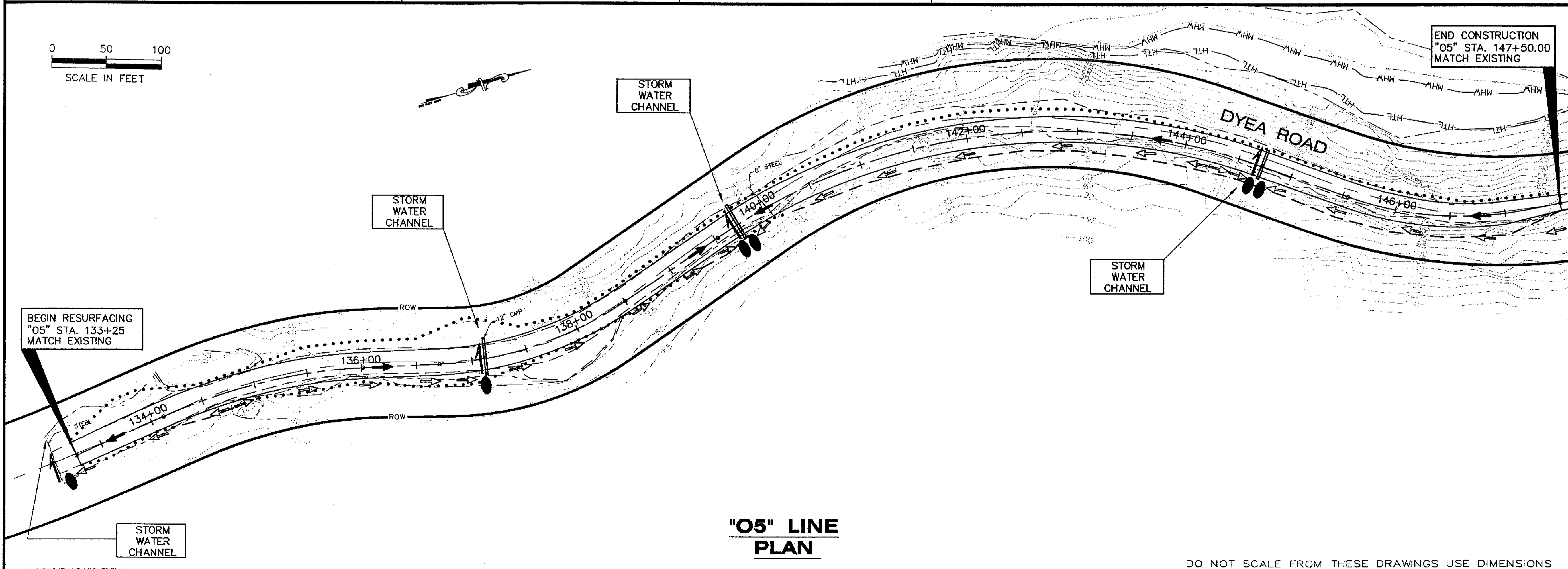
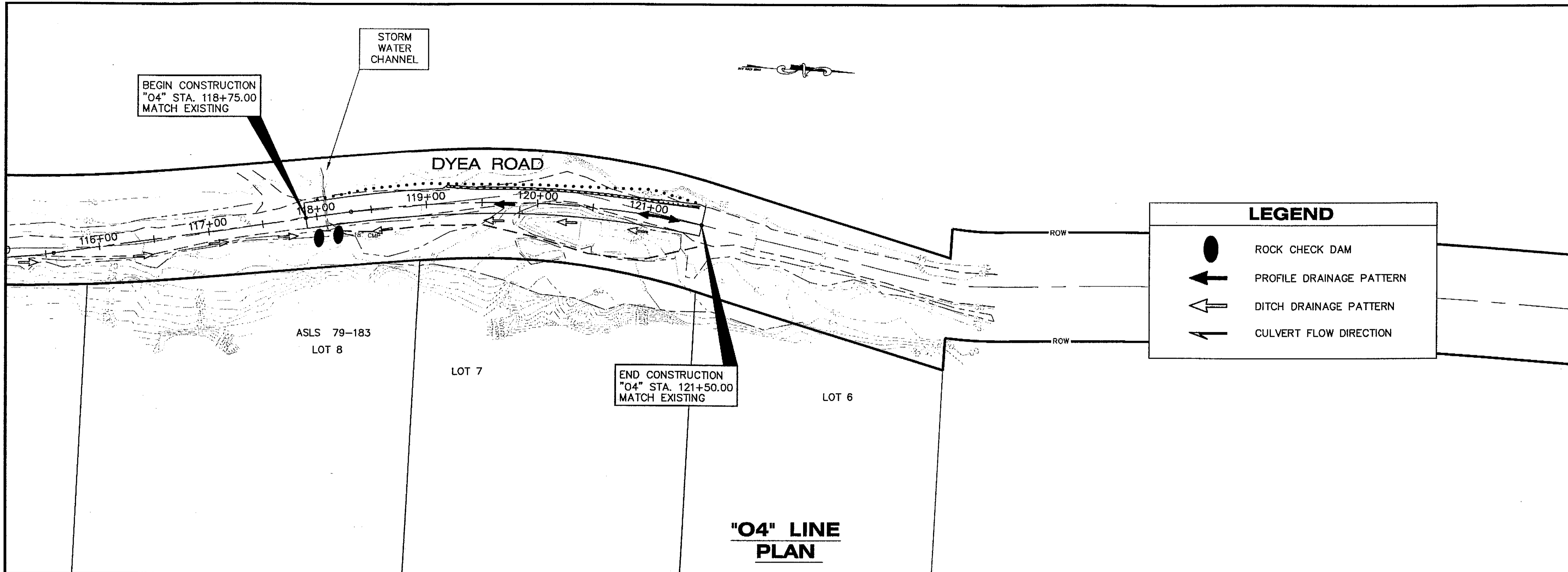
**"03" LINE  
 PLAN**



**"04" LINE  
 PLAN**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS





**LEGEND**

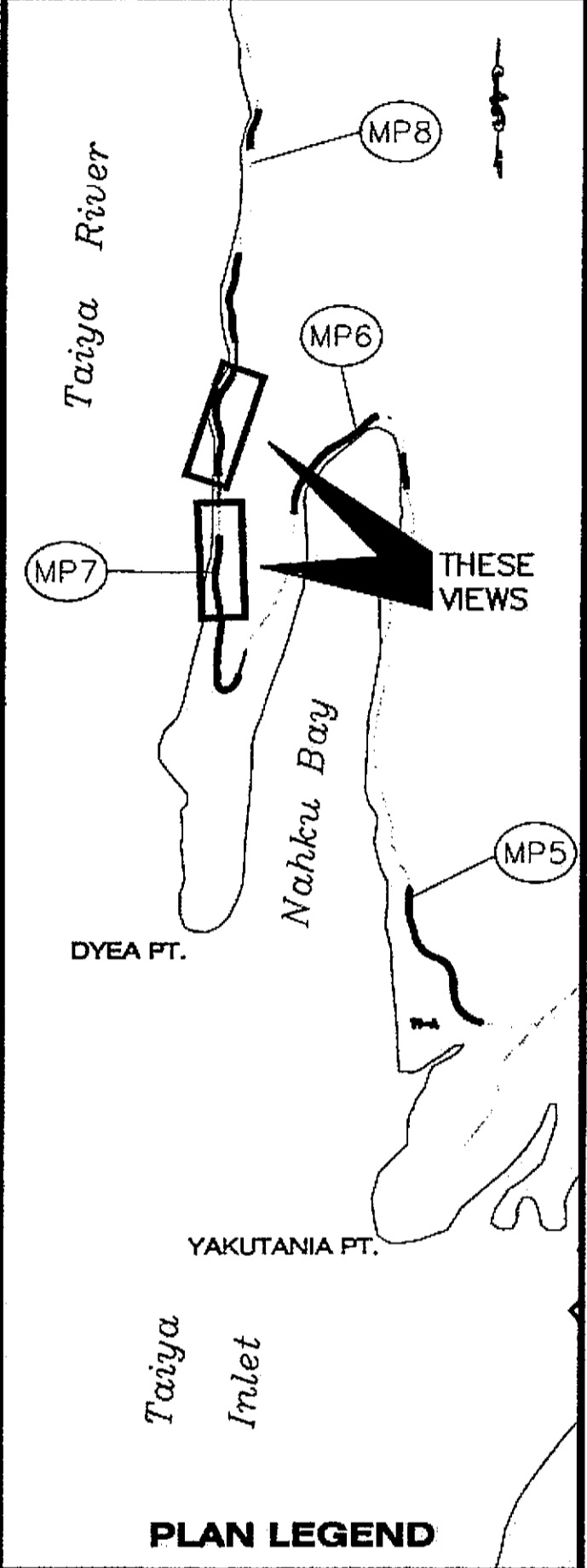
- ROCK CHECK DAM
- PROFILE DRAINAGE PATTERN
- DITCH DRAINAGE PATTERN
- CULVERT FLOW DIRECTION

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Thu, 23/Sep/04 08:13AM mtaylor

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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: P. CARROLL

DESIGNED BY: M. TAYLOR

DRAWN BY: R. SNYDER

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576  
EROSION &  
SEDIMENT  
CONTROL PLAN**

PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
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DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

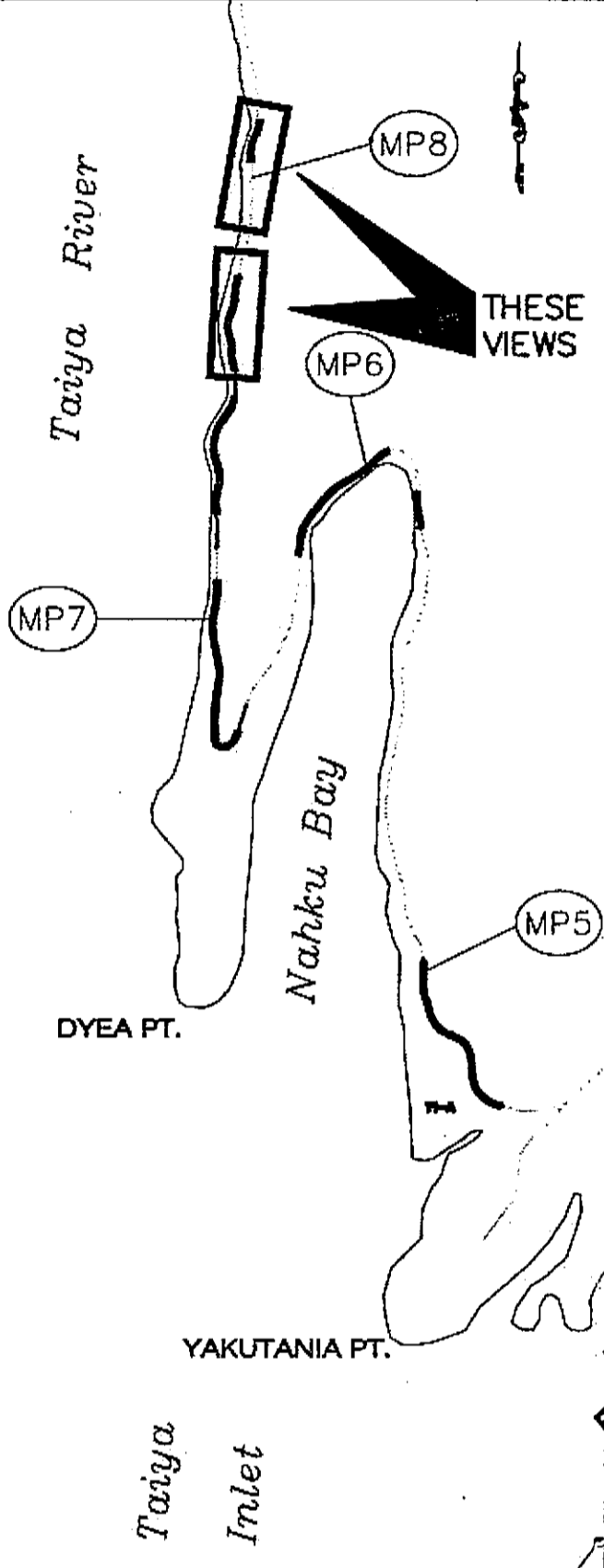
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ATTACHMENT NUMBER

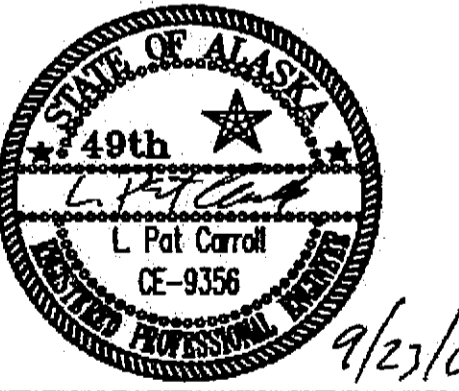
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: P. CARROLL



DESIGNED BY: M. TAYLOR

DRAWN BY: R. SNYDER

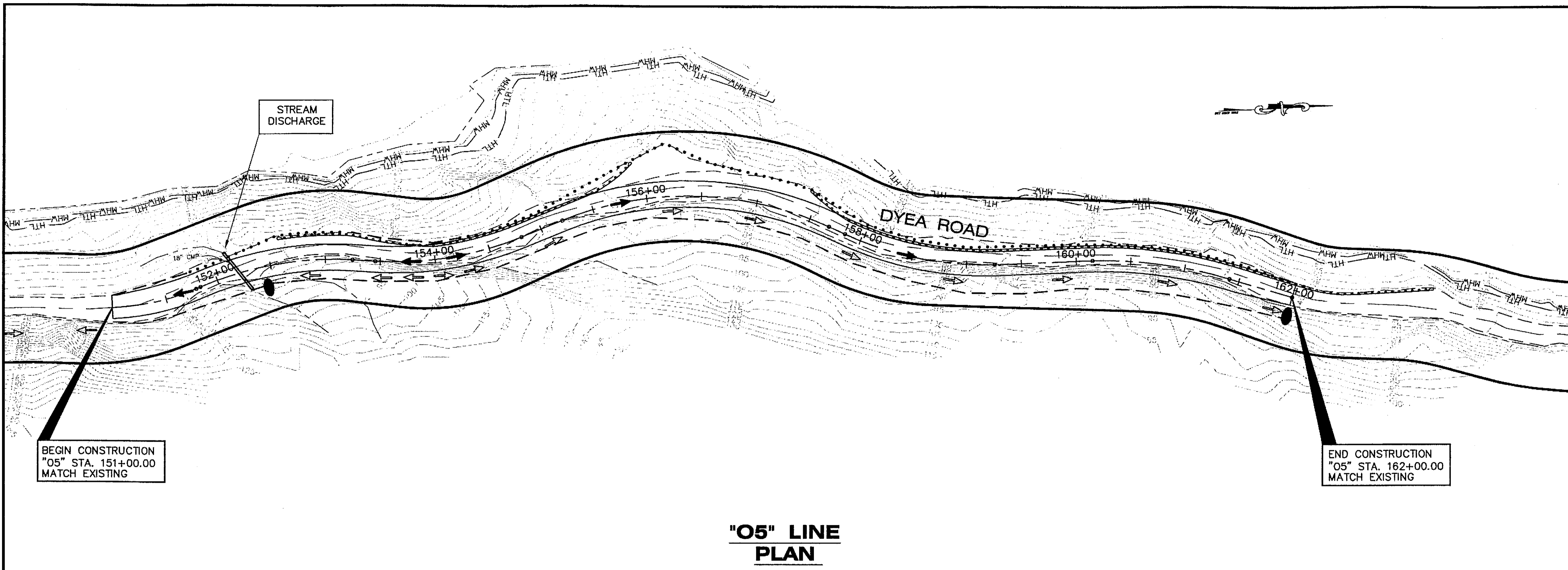
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 DEPARTMENT OF TRANSPORTATION  
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 S.E. REGION DESIGN & ENGINEERING  
 SERVICES DIVISION

**SGY-DYEA ROAD  
 SAFETY IMPROVEMENTS  
 PROJECT #68576  
 EROSION &  
 SEDIMENT  
 CONTROL PLAN**

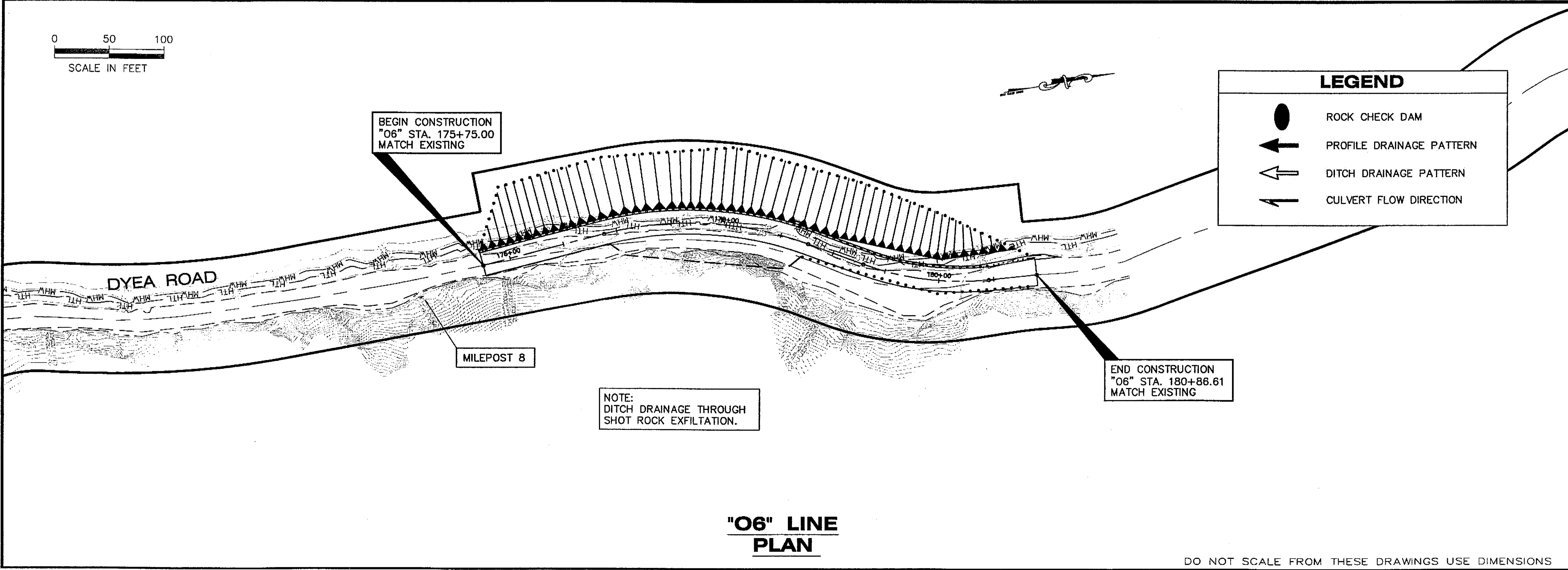
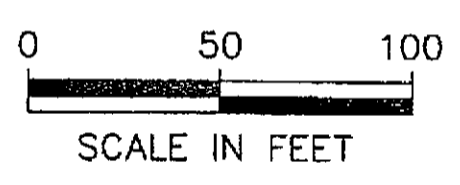
PROJECT DESIGNATION

HHE-0997(7)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
T5	34



**"05" LINE  
 PLAN**



**"06" LINE  
 PLAN**

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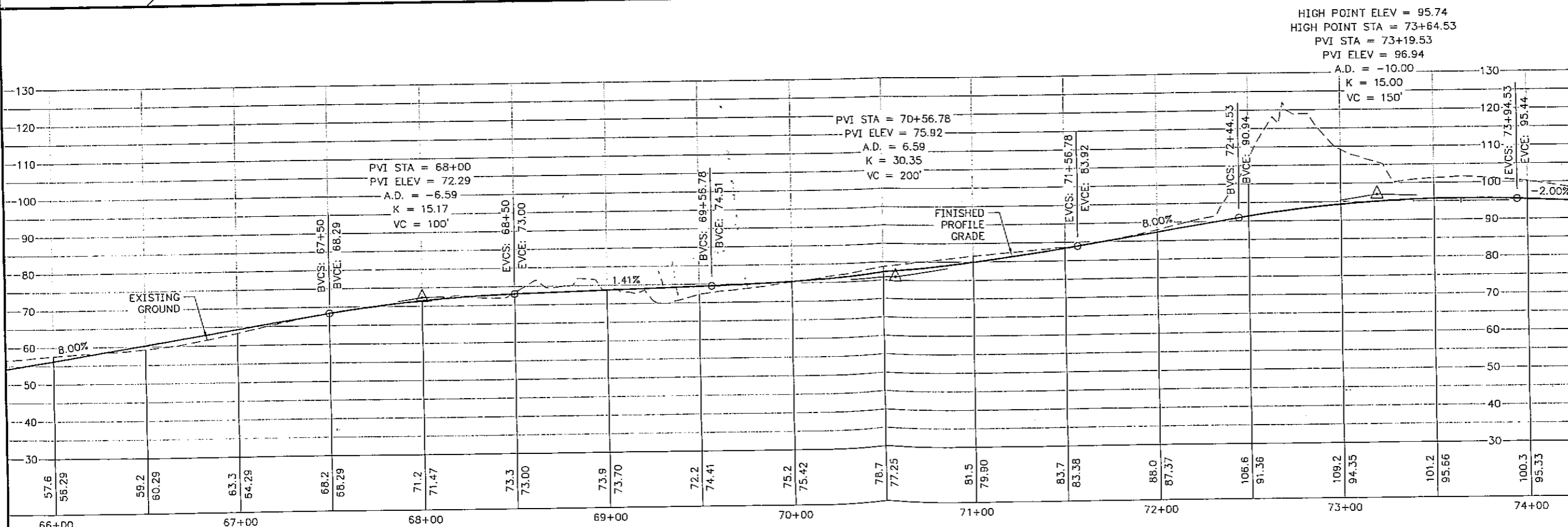
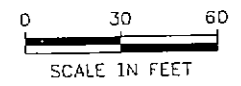
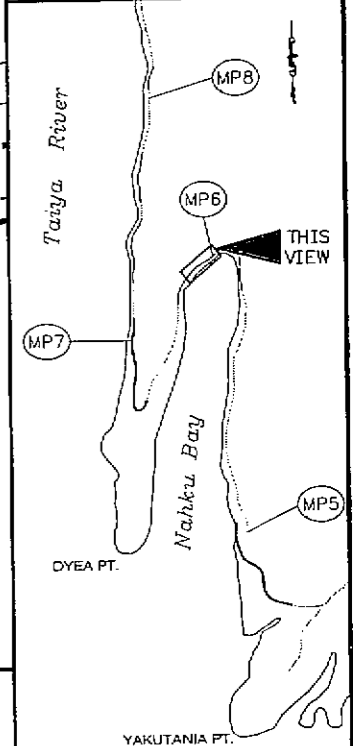
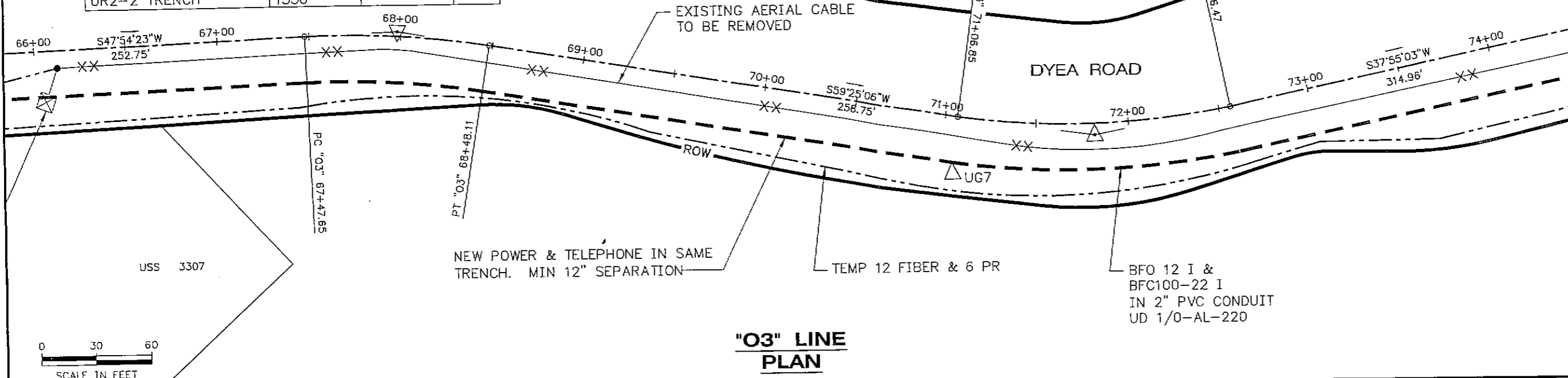
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

RUS UNIT ELECTRIC	ESTIMATED	ACTUAL	UNIT
UD 1/0-AL-220	1550'		FT
UG7 PAD MOUNT TRANS	1		EA
UK6 HAND HOLE	2		EA
UM 12 ROUTE MARKER	6		EA
UC2 3 PH TERM POLE	2		EA
UM8-2 WOOD M POST	2		EA
UM 6-1, 5 MISC ASSM	6		EA
UJ1-2 SEC CON BLK	6		EA
UR2-2 TRENCH	1550'		FT

RUS UNIT TELEPHONE	ESTIMATED	ACTUAL	UNIT
BFO 12 & BFC100-22 I	1600'		FT
BDO 7	2		EA
BD4	2		EA
TEMP FIBER & 6 PR	1900'		FT
HC3 Cu PR SPLICING	212		EA
HO1 FUSION SPLICE	48		EA
XX CO12E 12 FIBER	1125'		FT
XX CW100-22 10M	1125'		FT



CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

**SGY-DYEA ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**

**AP&T ELECTRICAL &  
TELEPHONE  
RELOCATION**

PROJECT DESIGNATION  
**HHE-0997(7)**

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
U2	37

**'03' LINE  
PROFILE**

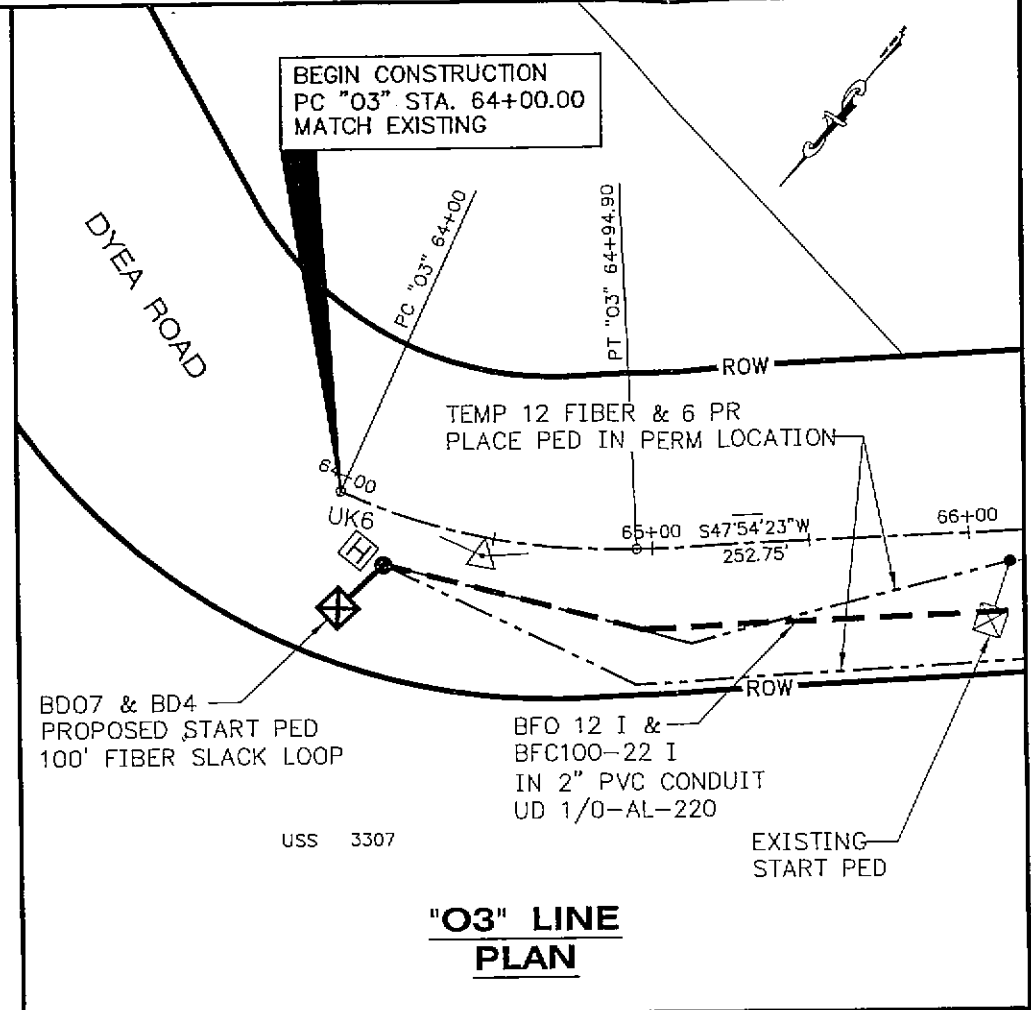
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DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

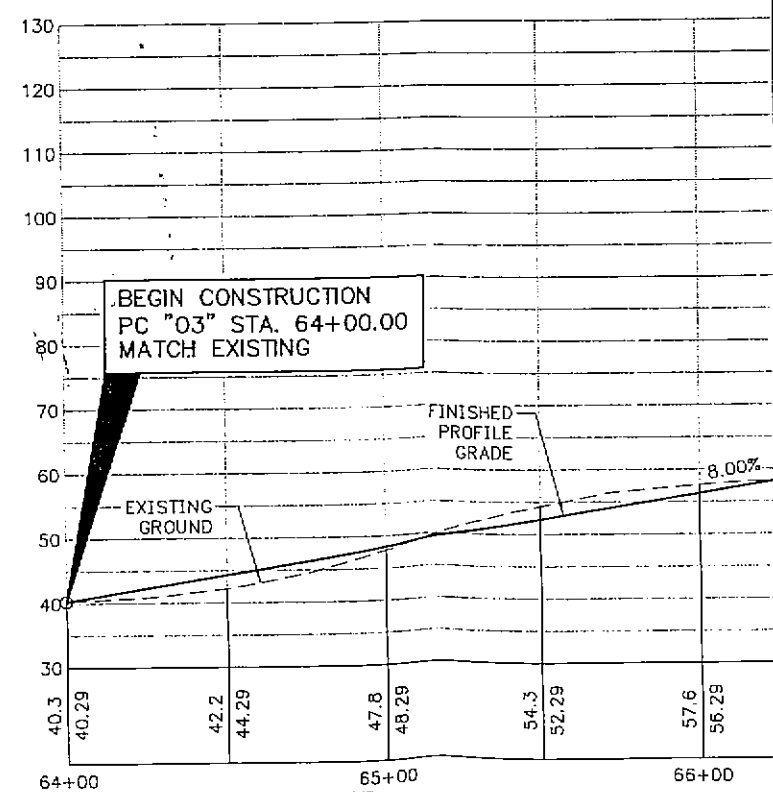
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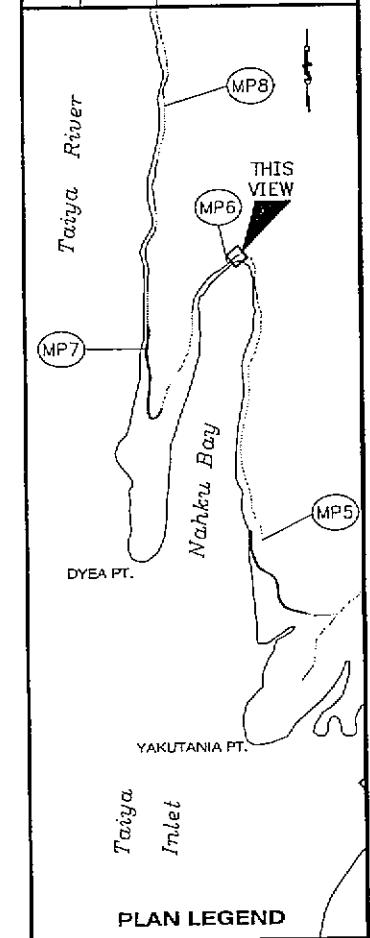
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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**"O3" LINE  
PLAN**



**"O3" LINE  
PROFILE**

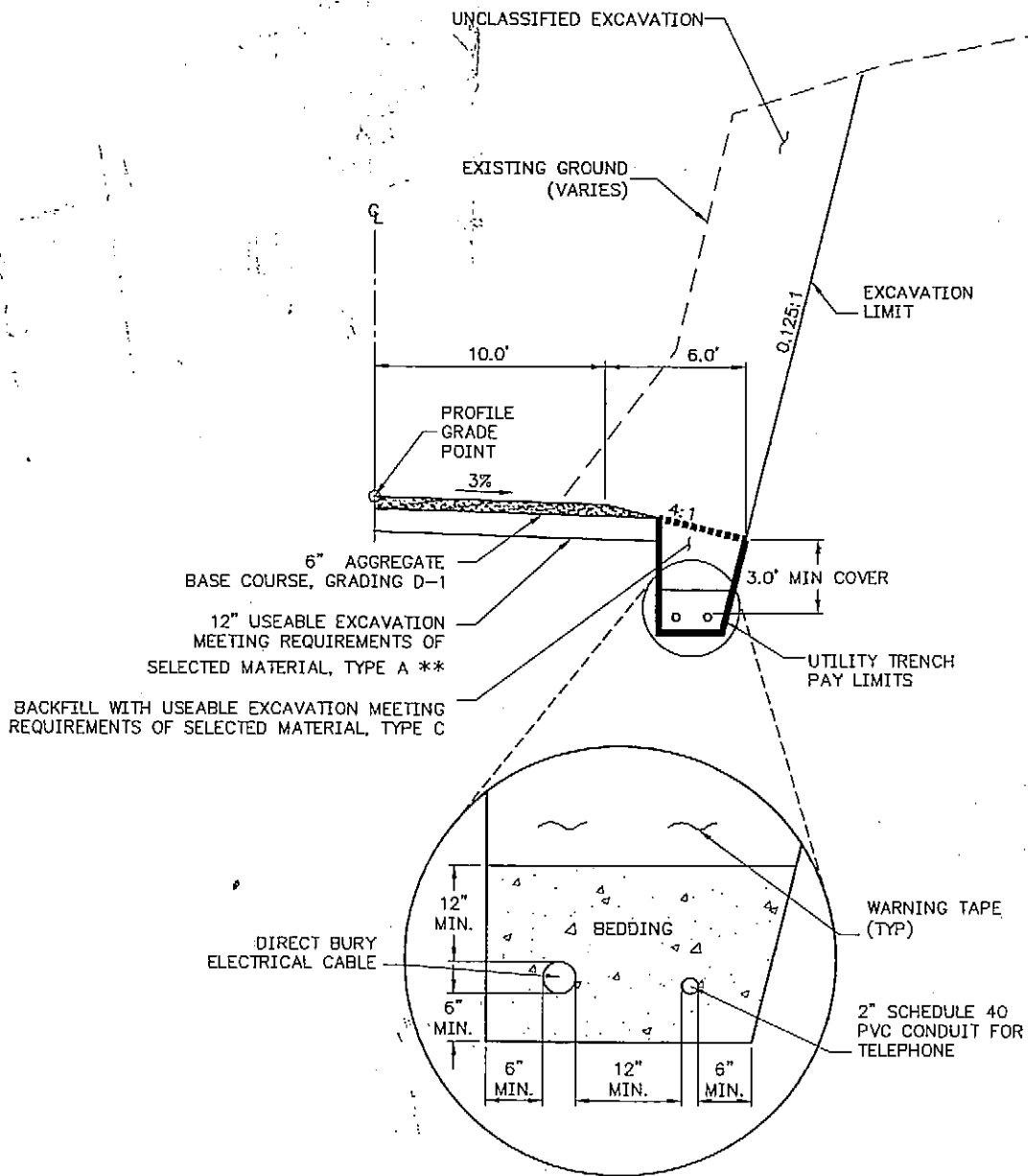


**PLAN LEGEND**

CHECKED BY:  
  
DESIGNED BY:  
  
DRAWN BY:

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION  
**SGY-DYE A ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576**  
AP&T ELECTRICAL &  
TELEPHONE  
RELOCATION

PROJECT DESIGNATION	
HHE-0997(7)	
STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
<b>U1</b>	<b>37</b>



**UTILITY TRENCH**  
**TYPICAL SECTION**

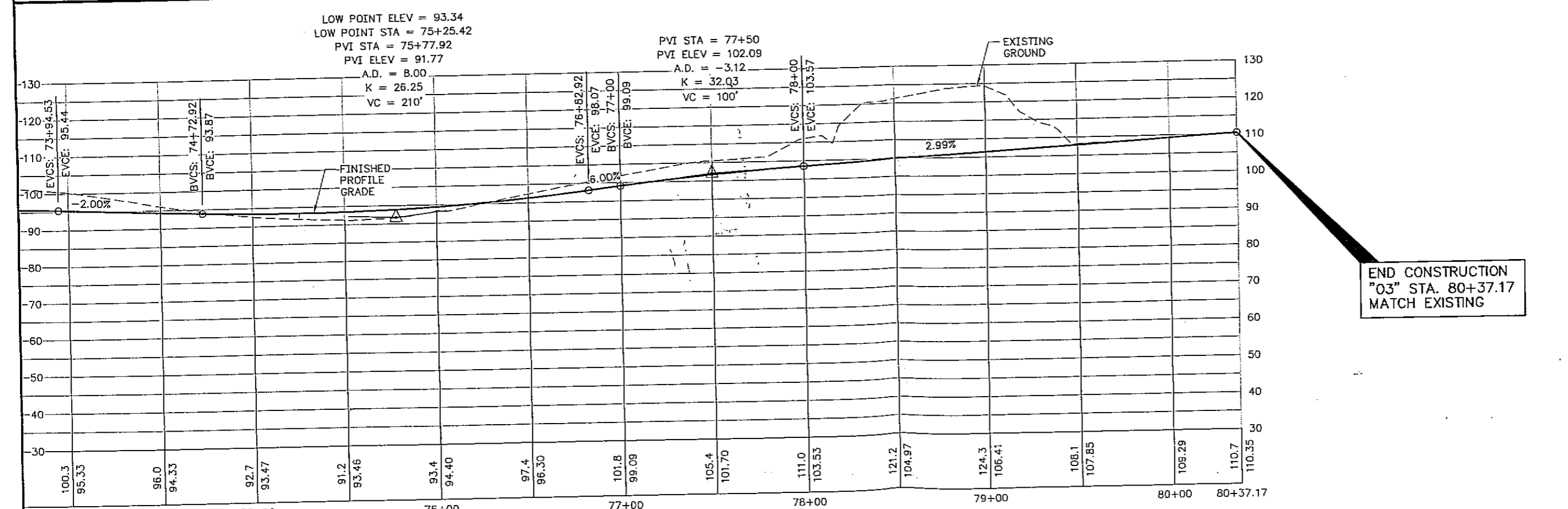
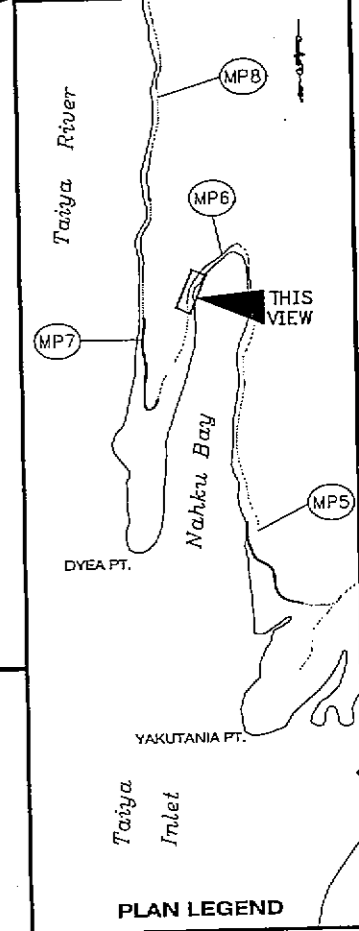
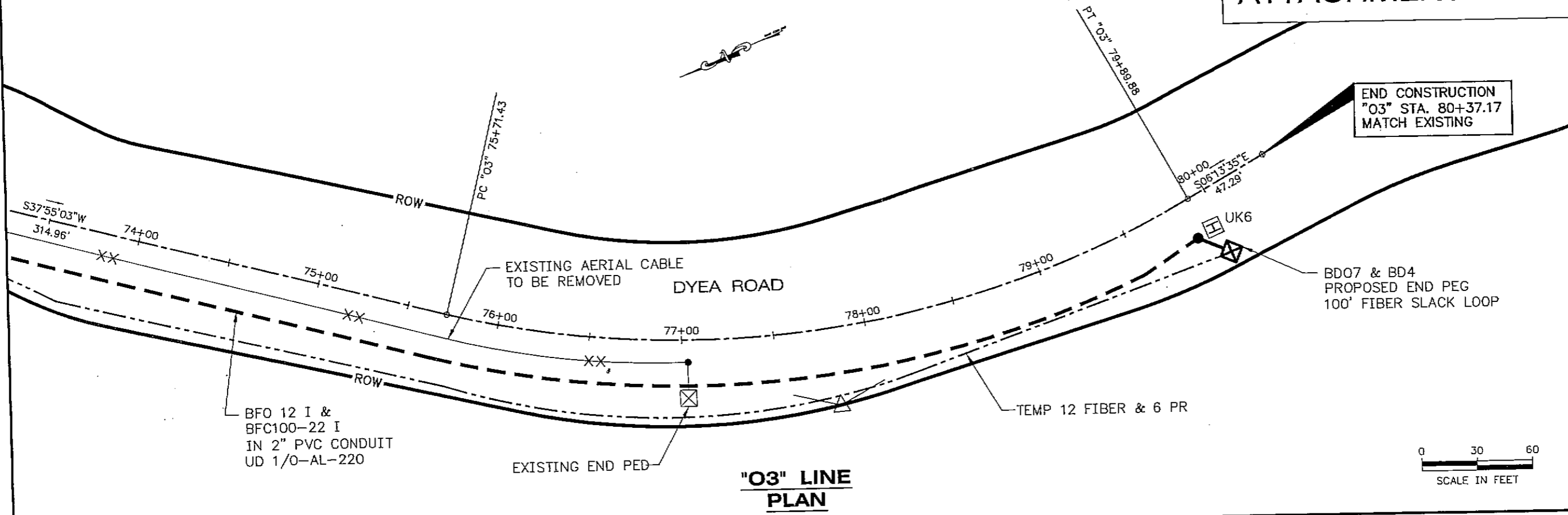
STA. "O3" 65+00 TO 79+94

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Thu, 14/Oct/04 11:56AM erhakarf.  
TAB: U3

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



END CONSTRUCTION  
"03" STA. 80+37.17  
MATCH EXISTING

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING  
SERVICES DIVISION

SGY-DYE A ROAD  
SAFETY IMPROVEMENTS  
PROJECT #68576

AP&T ELECTRICAL &  
TELEPHONE  
RELOCATION

PROJECT DESIGNATION  
HHE-0997(7)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
U3	37

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# ALS

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**ALASKA LAND SURVEYING CO. LLC**

8367 OLD DAIRY ROAD, SUITE 205

P.O. BOX 33462

JUNEAU, ALASKA 99803

VOICE: 907.789.0000 FAX: 907.789.4224 CELL PHONE: 907.321.1491

EMAIL: [TKIRCHNER.ALS@AK.NET](mailto:TKIRCHNER.ALS@AK.NET)

## TRANSMITTAL

**DATE:** 02 May 2005

**FILE NO.:** 04136.10A / 622

**TO:** Steve Mielke  
State of Alaska  
DOT/PF  
Skagway, AK

Voice Phone: 907 983-2432

**FROM:** Thomas M. Kirchner, P.L.S.

**SUBJECT:** Dyea Road Safety Improvements

**RE:** Line 03 As-Built of Electric and Telephone improvements.

**ATTACHMENTS:**

None

**REMARKS:**

Elec. Ped	64+29	33.6' Rt
Tel. Ped	64+32	31' Rt
Elec. Pad	71+08	32' Rt
Elec. Pad	80+02	17.5' Rt
Tel. Pad	80+06	18.0' Rt.