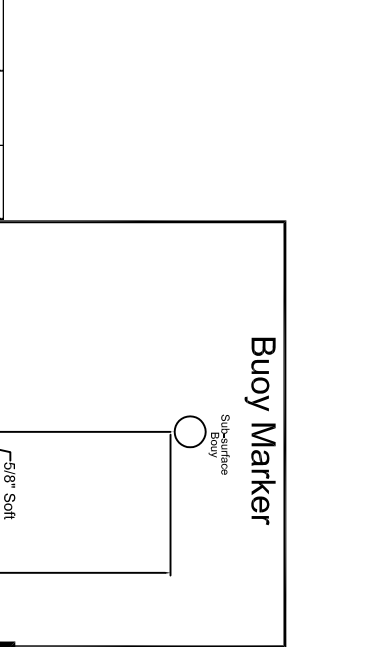
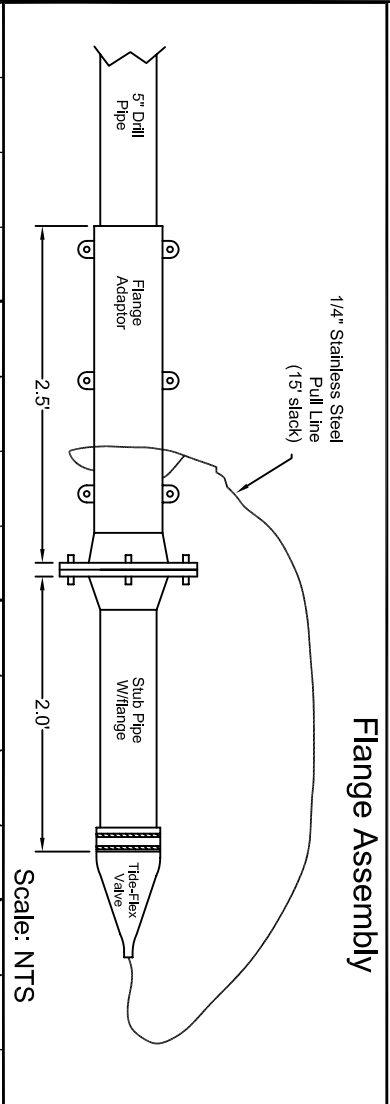
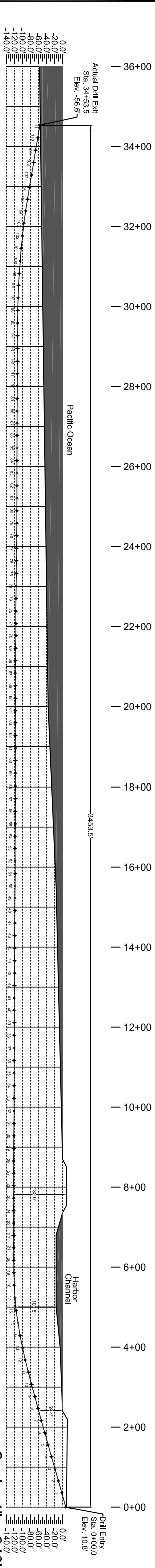
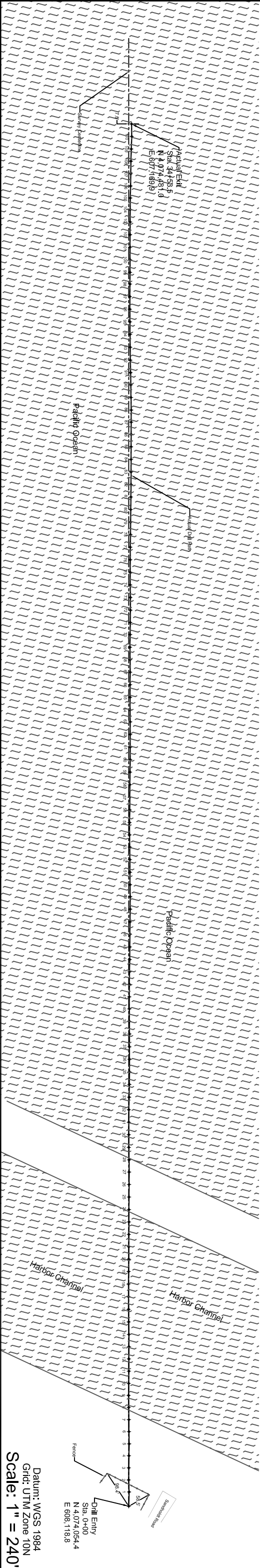
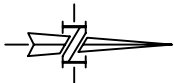


Monterey Bay Aquarium Research Institute
Monterey Accelerated Research System
HDD Shore Approach



Horizontal Distance = 3453.5'
Measured Distance = 3473.5'



868 ROBINWOOD CT.
TRAVERSE CITY, MI 49686
PH: (231) 929-1242
FAX: (231) 941-7412

DATE: 4-10-06

JOB No.: 05-5041

DRAWN BY: GJH

CLIENT: Monterey Bay Aquarium
Research Institute

PROFILE DIRECTION: SE to NW

LOCATION: MARS HDD Shore Approach
Moss Landing, CA

DRAWING No.: As-Built

JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset	JT #	Away	Elev.	Offset																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Entry	0+00.0	10.8	0.0	16	4+91.7	-116.0	-0.5	32	9+90.5	-121.0	0.2	48	14+91.5	-118.8	3.7	64	19+89.6	-117.8	3.3	80	24+89.9	-114.1	4.9	96	29+90.5	-111.9	2.8	112	34+91.1	-108.8	3.7	128	39+90.5	-105.5	3.7	144	44+91.1	-102.2	3.7	160	49+91.7	-98.9	3.7	176	54+92.3	-95.6	3.7	192	59+92.9	-92.3	3.7	208	64+93.5	-89.0	3.7	224	69+94.1	-85.7	3.7	240	74+94.7	-82.4	3.7	256	79+95.3	-79.1	3.7	272	84+95.9	-75.8	3.7	288	89+96.5	-72.5	3.7	304	94+97.1	-69.2	3.7	320	99+97.7	-65.9	3.7	336	104+98.3	-62.6	3.7	352	109+98.9	-59.3	3.7	368	114+99.5	-56.0	3.7	384	119+100.1	-52.7	3.7	400	124+100.7	-49.4	3.7	416	129+101.3	-46.1	3.7	432	134+101.9	-42.8	3.7	448	139+102.5	-39.5	3.7	464	144+103.1	-36.2	3.7	480	149+103.7	-32.9	3.7	496	154+104.3	-29.6	3.7	512	159+104.9	-26.3	3.7	528	164+105.5	-23.0	3.7	544	169+106.1	-19.7	3.7	560	174+106.7	-16.4	3.7	576	179+107.3	-13.1	3.7	592	184+107.9	-9.8	3.7	608	189+108.5	-6.5	3.7	624	194+109.1	-3.2	3.7	640	199+109.7	0.1	3.7	656	204+110.3	3.4	3.7	672	209+110.9	6.7	3.7	688	214+111.5	10.0	3.7	704	219+112.1	13.3	3.7	720	224+112.7	16.6	3.7	736	229+113.3	19.9	3.7	752	234+113.9	23.2	3.7	768	239+114.5	26.5	3.7	784	244+115.1	29.8	3.7	800	249+115.7	33.1	3.7	816	254+116.3	36.4	3.7	832	259+116.9	39.7	3.7	848	264+117.5	43.0	3.7	864	269+118.1	46.3	3.7	880	274+118.7	49.6	3.7	896	279+119.3	52.9	3.7	912	284+119.9	56.2	3.7	928	289+120.5	59.5	3.7	944	294+121.1	62.8	3.7	960	299+121.7	66.1	3.7	976	304+122.3	69.4	3.7	992	309+122.9	72.7	3.7	1008	314+123.5	76.0	3.7	1024	319+124.1	79.3	3.7	1040	324+124.7	82.6	3.7	1056	329+125.3	85.9	3.7	1072	334+125.9	89.2	3.7	1088	339+126.5	92.5	3.7	1104	344+127.1	95.8	3.7	1120	349+127.7	99.1	3.7	1136	354+128.3	102.4	3.7	1152	359+128.9	105.7	3.7	1168	364+129.5	109.0	3.7	1184	369+130.1	112.3	3.7	1200	374+130.7	115.6	3.7	1216	379+131.3	118.9	3.7	1232	384+131.9	122.2	3.7	1248	389+132.5	125.5	3.7	1264	394+133.1	128.8	3.7	1280	399+133.7	132.1	3.7	1296	404+134.3	135.4	3.7	1312	409+134.9	138.7	3.7	1328	414+135.5	142.0	3.7	1344	419+136.1	145.3	3.7	1360	424+136.7	148.6	3.7	1376	429+137.3	151.9	3.7	1392	434+137.9	155.2	3.7	1408	439+138.5	158.5	3.7	1424	444+139.1	161.8	3.7	1440	449+139.7	165.1	3.7	1456	454+140.3	168.4	3.7	1472	459+140.9	171.7	3.7	1488	464+141.5	175.0	3.7	1504	469+142.1	178.3	3.7	1520	474+142.7	181.6	3.7	1536	479+143.3	184.9	3.7	1552	484+143.9	188.2	3.7	1568	489+144.5	191.5	3.7	1584	494+145.1	194.8	3.7	1600	499+145.7	198.1	3.7	1616	504+146.3	201.4	3.7	1632	509+146.9	204.7	3.7	1648	514+147.5	208.0	3.7	1664	519+148.1	211.3	3.7	1680	524+148.7	214.6	3.7	1696	529+149.3	217.9	3.7	1712	534+149.9	221.2	3.7	1728	539+150.5	224.5	3.7	1744	544+151.1	227.8	3.7	1760	549+151.7	231.1	3.7	1776	554+152.3	234.4	3.7	1792	559+152.9	237.7	3.7	1808	564+153.5	241.0	3.7	1824	569+154.1	244.3	3.7	1840	574+154.7	247.6	3.7	1856	579+155.3	250.9	3.7	1872	584+155.9	254.2	3.7	1888	589+156.5	257.5	3.7	1904	594+157.1	260.8	3.7	1920	599+157.7	264.1	3.7	1936	604+158.3	267.4	3.7	1952	609+158.9	270.7	3.7	1968	614+159.5	274.0	3.7	1984	619+160.1	277.3	3.7	2000	624+160.7	280.6	3.7	2016	629+161.3	283.9	3.7	2032	634+161.9	287.2	3.7	2048	639+162.5	290.5	3.7	2064	644+163.1	293.8	3.7	2080	649+163.7	297.1	3.7	2096	654+164.3	300.4	3.7	2112	659+164.9	303.7	3.7	2128	664+165.5	307.0	3.7	2144	669+166.1	310.3	3.7	2160	674+166.7	313.6	3.7	2176	679+167.3	316.9	3.7	2192	684+167.9	320.2	3.7	2208	689+168.5	323.5	3.7	2224	694+169.1	326.8	3.7	2240	699+169.7	330.1	3.7	2256	704+170.3	333.4	3.7	2272	709+170.9	336.7	3.7	2288	714+171.5	340.0	3.7	2304	719+172.1	343.3	3.7	2320	724+172.7	346.6	3.7	2336	729+173.3	349.9	3.7	2352	734+173.9	353.2	3.7	2368	739+174.5	356.5	3.7	2384	744+175.1	359.8	3.7	2400	749+175.7	363.1	3.7	2416	754+176.3	366.4	3.7	2432	759+176.9	369.7	3.7	2448	764+177.5	373.0	3.7	2464	769+178.1	376.3	3.7	2480	774+178.7	379.6	3.7	2496	779+179.3	382.9	3.7	2512	784+179.9	386.2	3.7	2528	789+180.5	389.5	3.7	2544	794+181.1	392.8	3.7	2560	799+181.7	396.1	3.7	2576	804+182.3	399.4	3.7	2592	809+182.9	402.7	3.7	2608	814+183.5	406.0	3.7	2624	819+184.1	409.3	3.7	2640	824+184.7	412.6	3.7	2656	829+185.3	415.9	3.7	2672	834+185.9	419.2	3.7	2688	839+186.5	422.5	3.7	2704	844+187.1	425.8	3.7	2720	849+187.7	429.1	3.7	2736	854+188.3	432.4	3.7	2752	859+188.9	435.7	3.7	2768	864+189.5	439.0	3.7	2784	869+190.1	442.3	3.7	2800	874+190.7	445.6	3.7	2816	879+191.3	448.9	3.7	2832	884+191.9	452.2	3.7	2848	889+192.5	455.5	3.7	2864	894+193.1	458.8	3.7	2880	899+193.7	462.1	3.7	2896	904+194.3	465.4	3.7	2912	909+194.9	468.7	3.7	2928	914+195.5	472.0	3.7	2944	919+196.1	475.3	3.7	2960	924+196.7	478.6	3.7	2976	929+197.3	481.9	3.7	2992	934+197.9	485.2	3.7	3008	939+198.5	488.5	3.7	3024	944+199.1	491.8	3.7	3040	949+199.7	495.1	3.7	3056	954+200.3	498.4	3.7	3072	959+200.9	501.7	3.7	3088	964+201.5	505.0	3.7	3104	969+202.1	508.3	3.7	3120	974+202.7	511.6	3.7	3136	979+203.3	514.9	3.7	3152	984+203.9	518.2	3.7	3168	989+204.5	521.5	3.7	3184	994+205.1	524.8	3.7	3200	999+205.7	528.1	3.7	3216	1004+206.3	531.4	3.7	3232	1009+206.9	534.7	3.7	3248	1014+207.5	538.0	3.7	3264	1019+208.1	541.3	3.7	3280	1024+208.7	544.6	3.7	3296	1029+209.3	547.9	3.7	3312	1034+209.9	551.2	3.7	3328	1039+210.5	554.5	3.7	3344	1044+211.1	557.8	3.7	3360	1049+211.7	561.1	3.7	3376	1054+212.3	564.4	3.7	3392	1059+212.9	567.7	3.7	3408	1064+213.5	571.0	3.7	3424	1069+214.1	574.3	3.7	3440	1074+214.7	577.6	3.7	3456	1079+215.3	580.9	3.7	3472	1084+215.9	584.2	3.7	3488	1089+216.5	587.5	3.7	3504	1094+217.1	590.8	3.7	3520	1099+217.7	594.1	3.7	3536	1104+218.3	597.4	3.7	3552	1109+218.9	600.7	3.7	3568	1114+219.5	604.0	3.7	3584	1119+220.1	607.3	3.7	3600	1124+220.7	610.6	3.7	3616	1129+221.3	613.9	3.7	3632	1134+221.9	617.2	3.7	3648	1139+222.5	620.5	3.7	3664	1144+223.1	623.8	3.7	3680	1149+223.7	627.1	3.7	3696	1154+224.3	630.4	3.7	3712	1159+224.9	633.7	3.7	3728	1164+225.5	637.0	3.7	3744	1169+226.1	640.3	3.7	3760	1174+226.7	643.6	3.7	3776	1179+227.3	646.9	3.7	3792	1184+227.9	650.2	3.7	3808	1189+228.5	653.5	3.7	3824	1194+229.1	656.8	3.7	3840	1199+229.7	660.1	3.7	3856	1204+230.3	663.4	3.7	3872	1209+230.9	666.7	3.7	3888	1214+231.5	670.0	3.7	3904	1219+232.1	673.3	3.7	3920	1224+232.7	676.6	3.7	3936	1229+233.3	679.9	3.7	3952	1234+233.9	683.2	3.7	3968	1239+234.5	686.5	3.7	3984	1244+235.1	689.8	3.7	4000	1249+235.7	693.1	3.7	4016	1254+236.3	696.4	3.7	4032	1259+236.9	699.7	3.7	4048	1264+237.5	703.0	3.7	4064	1269+238.1	706.3	3.7	4080	1274+238.7	709.6	3.7	4096	1279+239.3	712.9	3.7	4112	1284+239.9	716.2	3.7	4128	1289+240.5	719.5	3.7	4144	1294+241.1	722.8	3.7	4160	1299+241.7	726.1	3.7	4176	1304+242.3	729.4	3.7	4192	1309+242.9	732.7	3.7	4208	1314+243.5	736.0	3.7	4224	1319+244.1	739.3	3.7	4240	1324+244.7	742.6	3.7	4256	1329+245.3	745.9	3.7	4272	1334+245.9	749.2	3.7	4288	1339+246.5	752.5	3.7	4304	1344+247.1	755.8	3.7	4320	1349+247.7	759.1	3.7	4336	1354+248.3	762.4	3.7	4352	1359+248.9	765.7	3.7	4368	1364+249.5	769.0	3.7	4384	1369+250.1	772.3	3.7	4400	1374+250.7	775.6	3.7	4416	1379+251.3	778.9	3.7	4432	1384+251.9	782.2	3.7	4448	1389+252.5	785.5	3.7	4464	1394+253.1	788.8	3.7	4480	1399+253.7	792.1	3.7	4496	1404+254.3	795.4	3.7	4512	1409+254.9	798.7	3.7	4528	1414+255.5	802.0	3.7	4544	1419+256.1	805.3	3.7	4560	1424+256.7	808.6	3.7	4576	1429+257.3	811.9	3.7	4592	1434+257.9	815.2	3.7	4608	1439+258.5	818.5	3.7	4624	1444+259.1	821.8	3.7	4640	1449+259.7	825.1	3.7	4656	1454+260.3	828.4	3.7	4672	1459+260.9	831.7	3.7	4688	1464+261.5	835.0	3.7	4704	1469+262.1	838.3	3.7	4720	1474+262.7	841.6	3.7	4736	1479+263.3	844.9	3.7	4752	1484+263.9	848.2	3.7	4768	1489+264.5