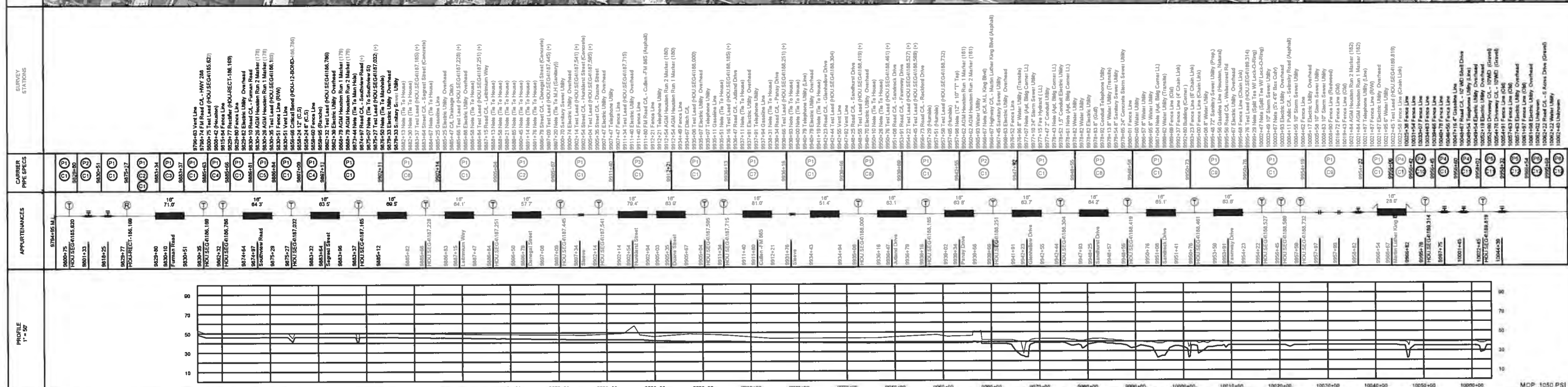


FILE NO.	OWNER	PA.	BEARINGS
HL125010428	Unknown	N 87° 46' E	
HL125010429	Unknown	N 44° 45' E	
HL125010430	Unknown	N 07° 21' W	
HL125010431	Unknown	N 71° 45' E	
HL125010432	Unknown	N 71° 56' E	
HL125010433	Unknown	N 57° 59' E	
HL125010434	Unknown	N 72° 00' E	
HL125010435	Unknown	N 72° 00' E	
HL125010436	Unknown	N 71° 45' E	
HL125010437	Unknown	N 75° 02' E	
HL125010438	Unknown	N 75° 02' E	
HL125010439	Unknown	N 75° 02' E	
HL125010440	Unknown	N 75° 02' E	
HL125010441	Unknown	N 75° 02' E	
HL125010442	Unknown	N 75° 02' E	
HL125010443	Unknown	N 75° 02' E	
HL125010444	Unknown	N 75° 02' E	
HL125010445	Unknown	N 75° 02' E	
HL125010446	Unknown	N 75° 02' E	
HL125010447	Unknown	N 75° 02' E	
HL125010448	Unknown	N 75° 02' E	
HL125010449	Unknown	N 75° 02' E	
HL125010450	Unknown	N 75° 02' E	
HL125010451	Unknown	N 75° 02' E	
HL125010452	Unknown	N 75° 02' E	
HL125010453	Unknown	N 75° 02' E	
HL125010454	Unknown	N 75° 02' E	
HL125010455	Unknown	N 75° 02' E	
HL125010456	Unknown	N 75° 02' E	
HL125010457	Unknown	N 75° 02' E	
HL125010458	Unknown	N 75° 02' E	
HL125010459	Unknown	N 75° 02' E	
HL125010460	Unknown	N 75° 02' E	
HL125010461	Unknown	N 75° 02' E	
HL125010462	Unknown	N 75° 02' E	
HL125010463	Unknown	N 75° 02' E	
HL125010464	Unknown	N 75° 02' E	
HL125010465	Unknown	N 75° 02' E	
HL125010466	Unknown	N 75° 02' E	
HL125010467	Unknown	N 75° 02' E	
HL125010468	Unknown	N 75° 02' E	
HL125010469	Unknown	N 75° 02' E	
HL125010470	Unknown	N 75° 02' E	
HL125010471	Unknown	N 75° 02' E	
HL125010472	Unknown	N 75° 02' E	
HL125010473	Unknown	N 75° 02' E	
HL125010474	Unknown	N 75° 02' E	
HL125010475	Unknown	N 75° 02' E	
HL125010476	Unknown	N 75° 02' E	
HL125010477	Unknown	N 75° 02' E	
HL125010478	Unknown	N 75° 02' E	
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HL125010481	Unknown	N 75° 02' E	
HL125010482	Unknown	N 75° 02' E	
HL125010483	Unknown	N 75° 02' E	
HL125010484	Unknown	N 75° 02' E	
HL125010485	Unknown	N 75° 02' E	
HL125010486	Unknown	N 75° 02' E	
HL125010487	Unknown	N 75° 02' E	
HL125010488	Unknown	N 75° 02' E	
HL125010489	Unknown	N 75° 02' E	
HL125010490	Unknown	N 75° 02' E	
HL125010491	Unknown	N 75° 02' E	
HL125010492	Unknown	N 75° 02' E	
HL125010493	Unknown	N 75° 02' E	
HL125010494	Unknown	N 75° 02' E	
HL125010495	Unknown	N 75° 02' E	
HL125010496	Unknown	N 75° 02' E	
HL125010497	Unknown	N 75° 02' E	
HL125010498	Unknown	N 75° 02' E	
HL125010499	Unknown	N 75° 02' E	
HL125010500	Unknown	N 75° 02' E	



ITEM	DATE	CO	WT	GRADE	SEAM	ITEM	DATE	MATERIAL	ITEM	DATE	MATERIAL	TRACT	OWNER	TRACT	OWNER	TRACT	OWNER	
P1	09/15/99	12.750"	0.203"	API SL-X48	ERWHP	C1	09/15/99	Coal Tar	HL125010428	09/15/99	D.H. Campbell	Unknown	D.H. Campbell	HL125010428	Unknown	Welpcrest Road	Unknown	
P2	09/15/99	12.750"	0.312"	API SL-X42	ERWHP	C2	10/27/98	2-Part Epoxy	HL125010429	09/15/99	C. Edwards/Scott Trustee's	Unknown	Chastnut Park Addition	HL125010429	Unknown	Charles D. McManis	HL125010429	James E. Anglin, Robert R. Dobson
P3	09/15/99	12.750"	0.312"	API SL-X42	ERWHP	C3	10/28/98	2-Part Epoxy	HL125010430	09/15/99	Furness Road	Unknown	Chastnut Park Addition	HL125010430	Unknown	Charles D. McManis	HL125010430	James E. Anglin, Robert R. Dobson
P4	11/12/98	12.750"	0.375"	API SL-X52	LINK	C4	10/31/98	2-Part Epoxy	HL125010431	09/15/99	Richmond Way	Unknown	Chastnut Park Addition	HL125010431	Unknown	Charles D. McManis	HL125010431	James E. Anglin, Robert R. Dobson
P5	03/03/79	12.750"	0.203"	API SL-X48	ERWHP	C5	10/23/98	2-Part Epoxy	HL125010432	09/15/99	Chastnut Park Addition	Unknown	Chastnut Park Addition	HL125010432	Unknown	Charles D. McManis	HL125010432	James E. Anglin, Robert R. Dobson
P6	03/31/78	12.750"	0.375"	API SL-B	ERWHP	C6	10/22/98	2-Part Epoxy	HL125010433	09/15/99	John S. Swenson, Diane D. Swenson	Unknown	Chastnut Park Addition	HL125010433	Unknown	Charles D. McManis	HL125010433	James E. Anglin, Robert R. Dobson
C7	11/01/98					C7	11/01/98	2-Part Epoxy	HL125010434	09/15/99	F.M. 518	Unknown	Chastnut Park Addition	HL125010434	Unknown	Charles D. McManis	HL125010434	James E. Anglin, Robert R. Dobson
C8	10/22/98					C8	10/22/98	2-Part Epoxy	HL125010435	09/15/99	Chastnut Park Addition	Unknown	Chastnut Park Addition	HL125010435	Unknown	Charles D. McManis	HL125010435	James E. Anglin, Robert R. Dobson
C9	10/21/98					C9	10/21/98	2-Part Epoxy	HL125010436	09/15/99	Gulf Pipeline Co.	Unknown	Chastnut Park Addition	HL125010436	Unknown	Charles D. McManis	HL125010436	James E. Anglin, Robert R. Dobson

**46P - HOUSTON PIPELINE**  
ARCOLA TO HOUSTON SEGMENT  
ATHS, COST CENTER: M4200

Generated by Mapping Dept.  
Print Date: 11/26/12  
Date Revised: (No revisions)  
Rev. Number: Revision 2.0  
Dwg. No: H5PL-363-943

MAP SCALE: 1" = 1000'  
VERT SCALE: 1" = 50'  
ABSOLUTE STATIONS SHOWN: 8800+00 TO 10000+00

The location of pipeline facilities as shown herein must be considered as approximate only. Before digging or for an exact location please contact your state's underground utility location service.

MCP: 1050 PSI

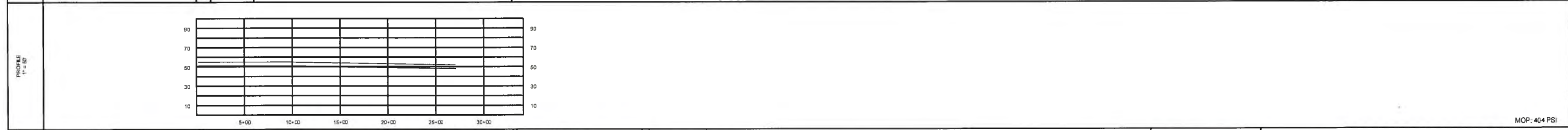


FILE NO.	
OWNERSHIP	
SOIL	
P.A.	0+00 5 23' 48" E 6+06 N 67' 43" E 11+00 01' 41" LT 11+00 N 85' 02" E 2+05 24' 00" LT 5+05 N 41' 58" E 47' 01" LT  N 88' 57" E 00' 50" LT 14+22 N 88' 27" E 00' 01" RT 22+21 N 88' 29" E 00' 08" RT 30+02 N 88' 38" E 02' 32" LT 34+13  N 00' 54" W



SURVEY STATIONS	0+00 Top of Lead (HOU) SEC 4/LAT 10/000 0+00 Launcher 0+00 Begin Cost Center M4200 1+50 12" (Coastal) 4D LL 2+06 12" (Coastal) 2.4 LL 6+31 Pipeline Marker  10+21 (Coastal) 21 D LL  14+70 (Coastal, Begin) 12.7 LL 14+75 12" (Coastal) 6.0 LL  34+13 Fence Line
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CARRIER PIPE SPECS	
APPURTENANCES	0+00 MAL 0+00 HOU SEC 4/LAT 10/000 LTV 10 0+00  34+13 MAL



ITEM	DATE	PIPE SPEC.				ITEM	DATE	PIPE SPEC.				ITEM	DATE	COATING SPEC.		ITEM	DATE	COATING SPEC.		TRACT	OWNERSHIP
		OD	WT	GRADE	SEAM			OD	WT	GRADE	SEAM			ITEM	MATERIAL			ITEM	MATERIAL		
P1	08/11/93	10.750"	0.250"	API 5L-X42	ERWHF	C1	06/03/90	FBE													

MAP SCALE  
 0 250 500 1000  
 Scale: 1" = 500'

VERT. SCALE  
 0 50 100  
 Scale: 1" = 50'

**ABSOLUTE STATIONS SHOWN**

**46P - HOUSTON PIPELINE**  
 ALMEDA LATERAL  
 ALML, COST CENTER: M4200

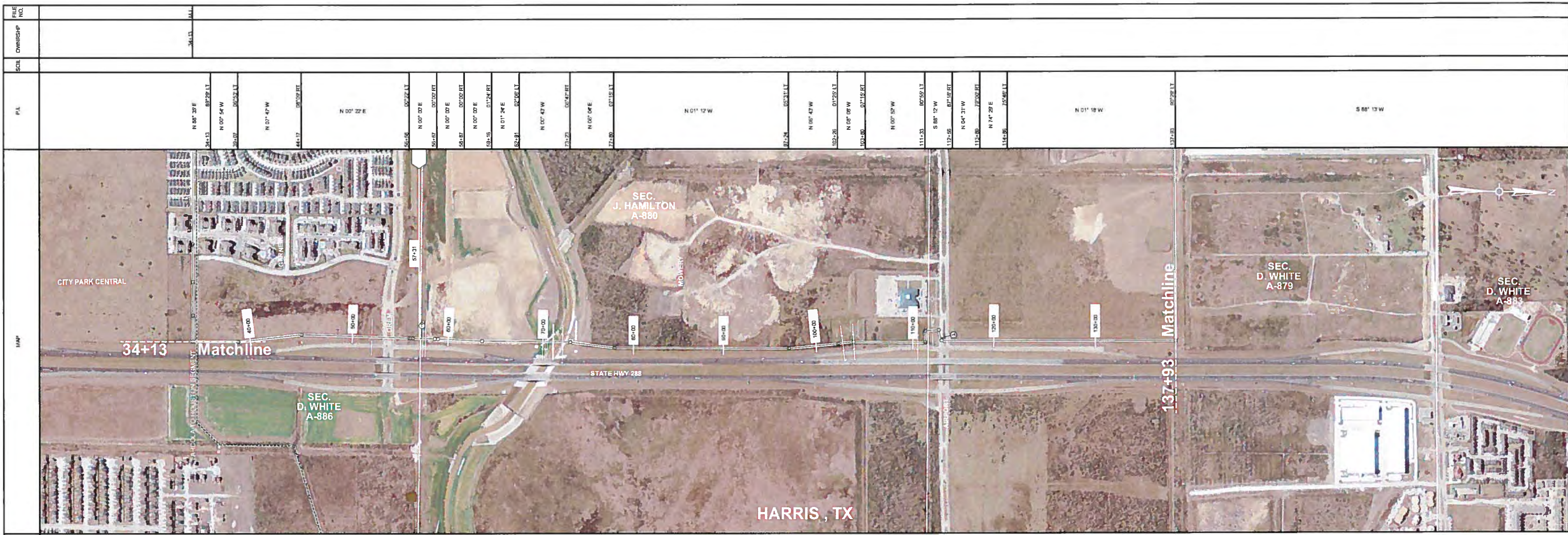
Generated by: Mapping Dept.  
 Print Date: 02/18/11  
 Date Revised: 06/01/06  
 Rev Number: 1

Dwg. No. HSPL-184-001

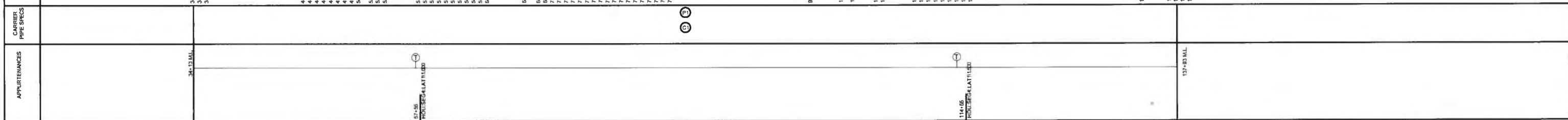
The location of pipeline facilities as shown hereon must be considered as approximate only. Before digging or for an exact location please contact your state's underground utility location service.

MOP - 404 PSI





FILE NO.	OWNERSHIP	SCIL	PA	MAP	SURVEY STATIONS	CARRIER PIPE SPECS	APPURTENANCES	PROFILE	
34-13			N 89° 39' E 34+13 89°29' LT N 00° 54' W 34+07 00°54' LT N 07° 47' W 44+17 07°47' RT N 00° 22' E 54+56 00°22' LT N 00° 00' E 54+67 00°00' RT N 00° 00' E 58+87 00°00' RT N 00° 00' E 58+18 01°24' RT N 01° 24' E 62+81 02°00' LT N 00° 47' W 71+21 00°47' RT N 00° 00' E 72+80 02°16' LT N 01° 12' W 82+28 02°16' LT N 08° 47' W 102+26 01°22' LT N 08° 08' W 103+80 07°16' RT N 00° 54' W 111+33 00°54' LT S 88° 12' W 112+56 87°10' RT N 04° 31' W 113+80 7°50' RT N 74° 29' E 114+59 74°29' LT N 01° 18' W 137+00 00°20' LT S 88° 13' W			<p>34+21 (Coastal, Crossing)</p> <p>34+26 (P.L., Crossing)</p> <p>34+42 (P.L., Crossing)</p> <p>44+48 Guard Rail (Begin)</p> <p>44+60 Top Bank</p> <p>44+60 Begin Concrete Ditch CL</p> <p>44+87 Creek CL</p> <p>44+97 Note (Bress Ditch #6978) 3.0' RL</p> <p>45+28 (Coastal, Crossing)</p> <p>45+28 End Concrete Ditch CL</p> <p>50+46 Guard Rail (End)</p> <p>52+24 Edge of Pavement</p> <p>52+24 Note (Edge Median)</p> <p>52+24 Driveway CL - Open</p> <p>57+28 8" (Coastal, Crossing)</p> <p>57+32 8" (Coastal, Crossing)</p> <p>57+55 Test Lead (HOU:SEGALAT11,000)</p> <p>57+55 Fence Line</p> <p>57+91 Note (Tie LL to Tower)</p> <p>57+91 Electric Utility Overhead (Crossing)</p> <p>58+87 Edge of Pavement</p> <p>59+16 Edge of Pavement</p> <p>60+78 Note (Tie RL Conc. Box with Grate)</p> <p>66+00 Note (Begin Bridge, Tie RL)</p> <p>66+53 Note (Tie RL Bress Cap No. 555)</p> <p>66+97 Drain Line 3.0' RL</p> <p>67+26 Top Bank</p> <p>70+26 Top Bank</p> <p>70+26 Drain Line 3.0' RL</p> <p>70+47 Tie Post (P)</p> <p>70+47 Tie Post (B)</p> <p>71+04 Note (Tie)</p> <p>71+14 Drain Line 3.0' RL</p> <p>71+14 Note (Edge of Pipe)</p> <p>71+26 Some Bays CL</p> <p>71+26 Top Bank</p> <p>71+26 Tie Post (P)</p> <p>71+26 Fence Line</p> <p>72+17 Note (Tie RL End Bridge)</p> <p>72+17 Guard Rail (Begin)</p> <p>72+17 Note (Tie RL)</p> <p>72+32 Drain Line 3.0' RL</p> <p>72+87 Guard Rail (Tie RL, End)</p> <p>88+54 Gate (Tie LL Alum)</p> <p>102+70 Fence Line</p> <p>103+80 Fence Line</p> <p>105+23 Note (Tie RL)</p> <p>105+23 Begin Concrete Ditch</p> <p>110+36 Note (Tie RL, 2' Vert)</p> <p>110+36 Note (Tie RL, 2' Vert)</p> <p>110+38 Note (Tie RL, 2' Vert)</p> <p>110+53 Fence Line</p> <p>110+53 Tie to Fence Post (Tie RL)</p> <p>113+23 Driveway CL - Asport - Right</p> <p>114+65 Test Lead (HOU:SEGALAT11,500)</p> <p>134+65 2" (Crossing)</p> <p>137+35 2" (Crossing)</p> <p>137+76 Monument (Tie RL Broken Concrete)</p> <p>137+88 Electric Utility Overhead</p> <p>137+88 Note (Tie RL, Tower #4)</p>		<p>34-13 M.L.</p> <p>137+93 M.L.</p>	<p>1" = 50'</p>



PIPE SPEC.					PIPE SPEC.					COATING SPEC.			COATING SPEC.			TRACT		OWNERSHIP	
ITEM	DATE	OD	WT	GRADE	SEAM	ITEM	DATE	OD	WT	GRADE	SEAM	ITEM	DATE	MATERIAL	ITEM	DATE	MATERIAL	TRACT	OWNERSHIP
P1	08/11/03	10.750"	0.250"	API 5L-X42	ERWHP							C1	08/03/00	FBE					

**ABSOLUTE STATIONS SHOWN**

MAP SCALE  
0 250 500 1000  
Scale: 1" = 500'

VERT. SCALE  
0 50 100  
Scale: 1" = 50'

### 46P - HOUSTON PIPELINE

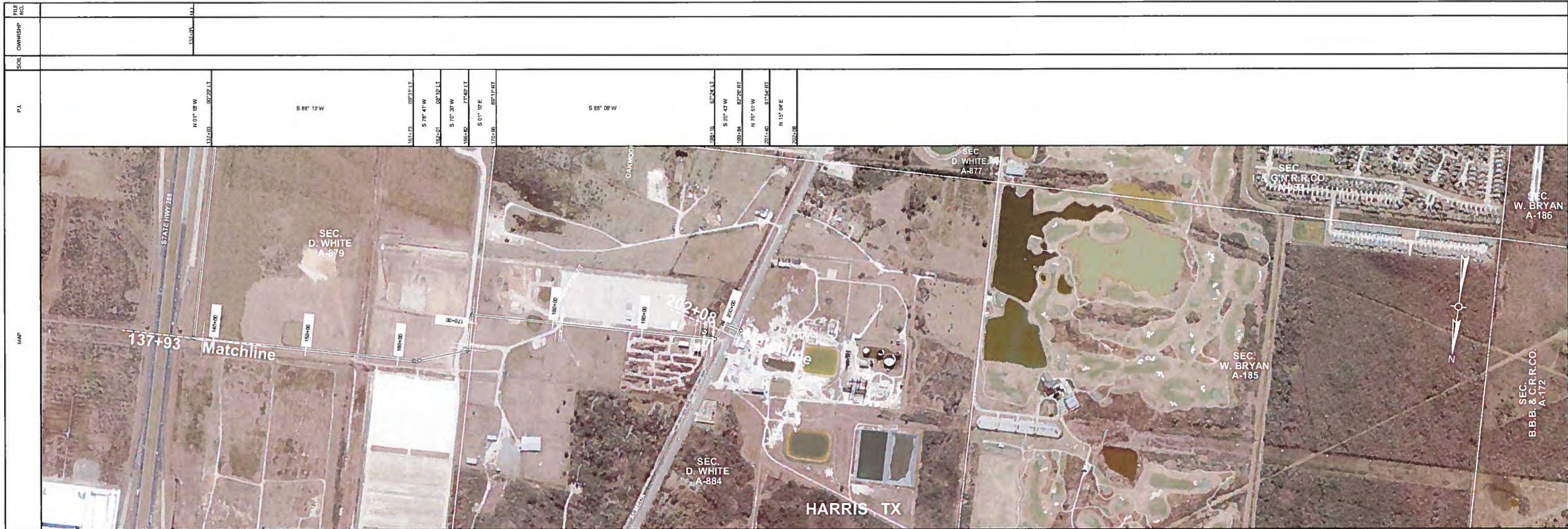
ALMEDA LATERAL  
ALML, COST CENTER: M4200

Generated by: Mapping Dept.  
Print Date: 02/18/11  
Date Revised: 06/01/06  
Rev Number: 1

Dwg. No. HSP1-184-002

The location of pipeline facilities as shown hereon must be considered as approximate only. Before digging or for an exact location please contact your state's underground utility location service.





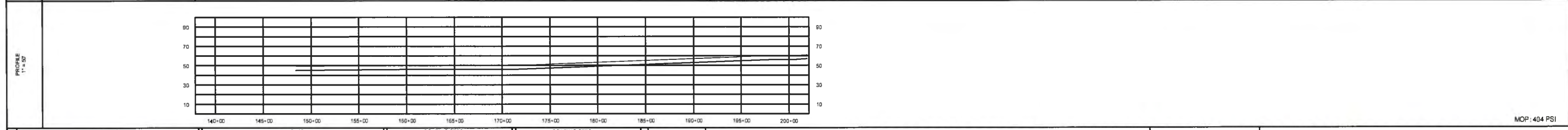
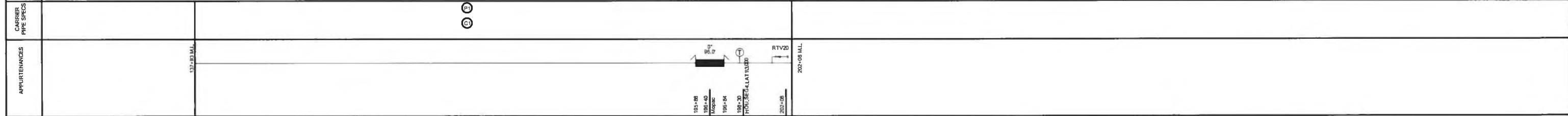
**SURVEY STATIONS**

137+93 Note (Tie RL to Cable)  
 138+98 Fence Line  
 140+00 Note (Tie RL to Cable)  
 142+19 Note (Enter Tower #43 Tie LL to Tower)  
 142+38 Note (East Tower #43 Tie LL to Tower)  
 145+02 Note (Tie RL to Cable Marker)  
 145+24 Note (Enter Tower #42 Tie LL to Tower)  
 145+44 Note (East Tower #42 Tie LL to Tower)  
 145+52 Note (Begin Top of Post)  
 145+52 Note (Tie LL to Cable)  
 148+52 Note (Tie RL to Cable)  
 148+52 Note (Tie RL to Cable)  
 148+52 Note (Tie RL to Cable)  
 150+33 Note (Tie RL to Cable Marker)  
 151+35 Note (Enter Tower #41 Tie LL to Tower)  
 151+35 Note (East Tower #41 Tie LL to Tower)  
 152+00 Note (Tie RL to Cable)  
 153+00 Note (Tie RL to Cable)  
 154+75 Press. Dish  
 155+27 Note (Tie RL to Cable Marker)  
 155+47 Note (Enter Tower Tie LL to Tower)  
 155+68 Note (East Tower Tie LL to Tower)  
 159+21 Note (Tie RL to Cable Marker)  
 151+24 Note (Enter Tower #40 Tie LL to Tower)  
 151+44 Note (East Tower #40 Tie LL to Tower)

156+81 Fence Line  
 157+50 Fence Line  
 171+04 Fence Line

176+83 Note (Tie LL)  
 176+83 Note (Tie RL)  
 176+83 Note (Tie RL)  
 177+58 Road CL  
 178+36 Top Bank (Tie LL)  
 178+36 Top Bank (Tie RL)  
 178+83 Note (Tie RL)  
 180+43 Road CL (Ground)  
 180+55 3" (Crossing)  
 180+86 Electric Utility Overhead  
 180+86 Power Pole Utility  
 181+07 4" ON Line (Common, Fireplug)  
 181+15 2" (Crossing)  
 185+07 Note (Enter Playard)

185+89 2" Vent Line (Conc. Culvert)  
 186+40 Railroad CL - (Access)  
 186+83 2" Vent Line  
 186+89 Note (Tie RL, Conc. Culvert)  
 188+02 Electric Utility Overhead  
 188+02 Electric Utility Overhead  
 188+02 Power Pole Utility / Offset  
 188+84 (Crossing)  
 188+85 (Crossing)  
 188+86 (Crossing)  
 187+05 Cable Utility (S.W. Crossing)  
 187+17 Edge of Pavement  
 187+40 Road CL - (Alameda)  
 187+54 Edge of Pavement  
 187+80 Sanitary Sewer Utility (Crossing)  
 187+85 Bar Drain CL  
 187+81 Water Utility (Crossing)  
 187+87 Electric Utility Overhead  
 187+87 Electric Utility Overhead  
 187+87 Power Pole Utility / Offset  
 188+00 Note (Tie LL, LFL)  
 188+00 Note (Tie RL, LFL)  
 188+00 Note (Tie RL, LFL)  
 188+00 Note (Tie RL, LFL - Concrete Decktop)  
 188+03 Edge of Pavement  
 188+20 Driveway CL (Asphalt)  
 188+54 Edge of Pavement  
 189+78 Note (Tie LL, LFL)  
 202+08 Note (Enter Tower) (Station) / Offset  
 202+08 Reserve



PIPE SPEC.						PIPE SPEC.						COATING SPEC.				COATING SPEC.				TRACT		OWNERSHIP	
ITEM	DATE	OD	WT	GRADE	SEAM	ITEM	DATE	OD	WT	GRADE	SEAM	ITEM	DATE	MATERIAL	ITEM	DATE	MATERIAL						
P1	09/11/93	10.750"	0.250"	API 5L-X42	ERWHP							C1	08/03/90	FBE									

**46P - HOUSTON PIPELINE**  
 ALMEDA LATERAL  
 ALML, COST CENTER: M4200

Generated by: Mapping Dept.  
 Print Date: 02/18/11  
 Date Revised: 06/01/06  
 Rev. Number: 1

Dwg. No. HSP-184-003

The location of pipeline facilities as shown hereon must be considered as approximate only. Before digging or for an exact location please contact your state's underground utility location service.

**NuStar**  
 NuStar Energy, L.P.  
 2202 North Loop West, Suite 1000  
 Houston, Texas 77002  
 Tel: 281.282.3333