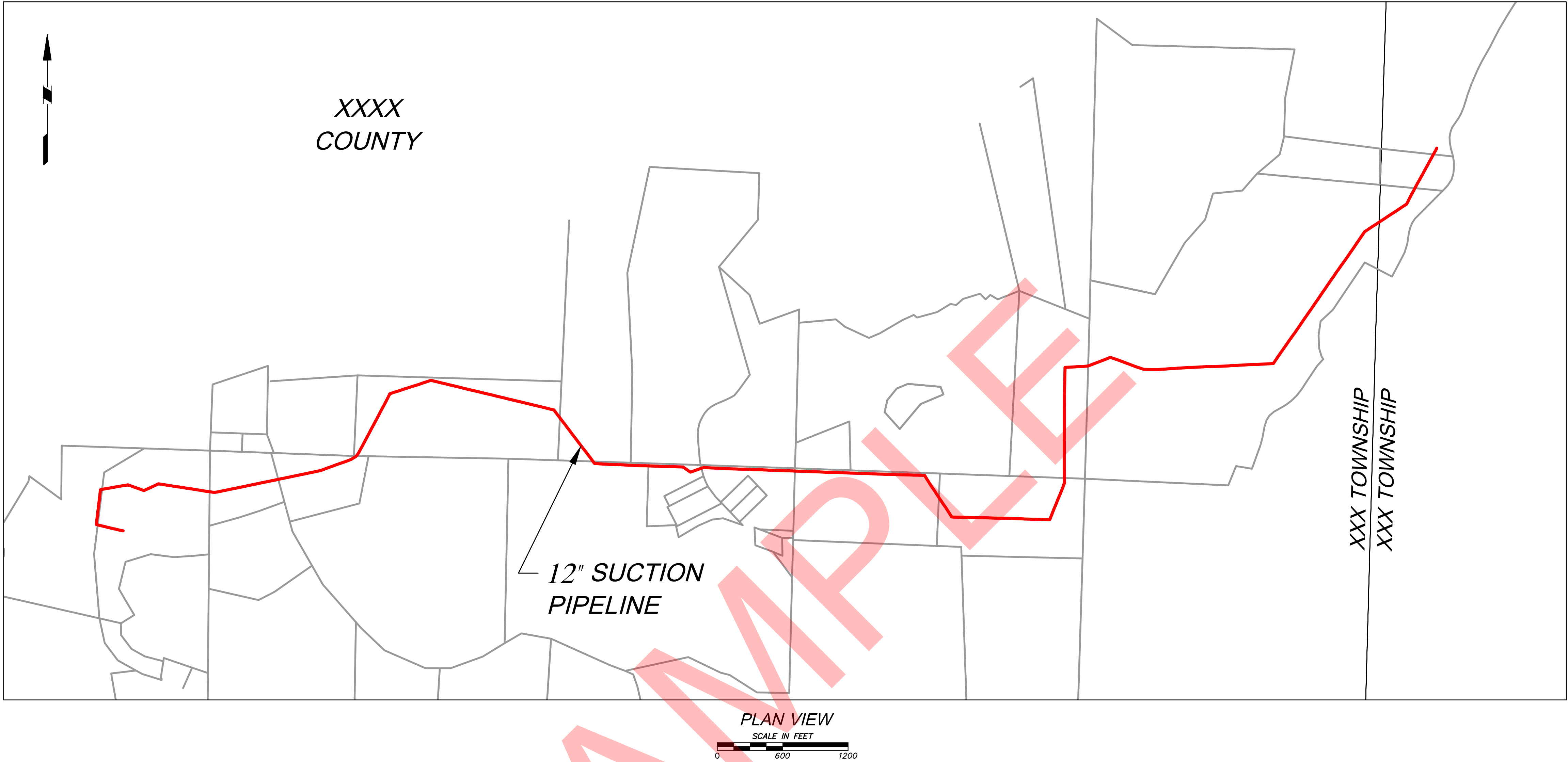


SUCTION LINE, 12" AS-BUILT

ALIGNMENT LENGTH = 16,122 LINEAR FEET
TOTAL LENGTH OF PIPE = 16,522 FEET



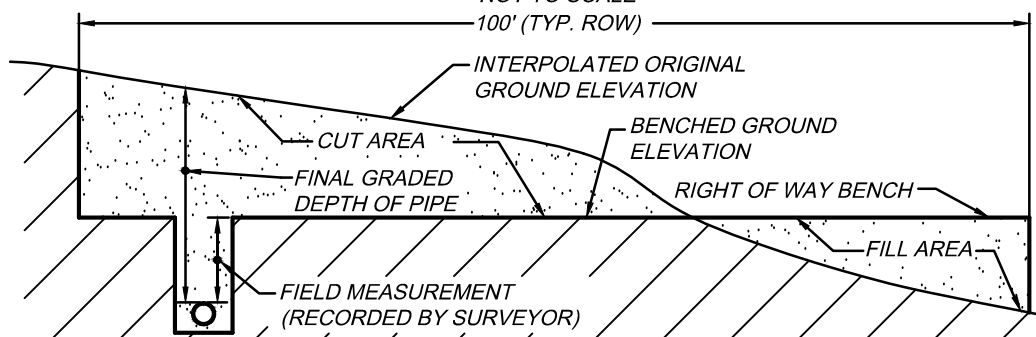
GENERAL NOTES AND DISCLAIMER:

- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SEARCH FOR ALL PROPERTIES SHOWN. THEREFORE, ANY PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, ETC. AS MAY BE DISCLOSED IN A CURRENT, COMPREHENSIVE TITLE SEARCH.
- THE AS-BUILT SURVEY FOR THIS PIPELINE PROJECT WAS PERFORMED BY UTILIZING SURVEY GRADE GPS-RTK TECHNOLOGY AND CONVENTIONAL SURVEY METHODS. THE INITIAL HORIZONTAL AND VERTICAL GEODETIC CONTROL FOR THE SURVEY WAS ESTABLISHED BY MEANS OF GPS POST PROCESSING OF DATA THROUGH OPUS (ONLINE POSITIONING USER SERVICE), FROM NGS (NATIONAL GEODETIC SURVEY), AND/OR BY USE OF A VRS (VIRTUAL REFERENCE STATION) THROUGH THE CORS (CONTINUOUSLY OPERATING REFERENCE STATION) NETWORK FOR GPS.
- THE MERIDIAN IS REFERENCED TO THE "NAD 83 OHIO STATE PLANE COORDINATE SYSTEM"
- VERTICAL DATUM IS BASED ON "NAVD 88" ALL DERIVED FROM GPS OBSERVATIONS AND IN US SURVEY FEET.
- ALL STATIONING SHOWN ON THESE DRAWINGS FOR THE ALIGNMENT IN THE PLAN AND PROFILE IS HORIZONTAL. WHERE X-RAY DATA IS SHOWN IN THE PIPE BAR REPRESENTS SLOPE STATIONING.
- THE AS-BUILT SURVEY FOR THIS PIPELINE PROJECT IS BASED ON A FIELD SURVEY PERFORMED BY "KEYSTONE SURVEYING AND MAPPING, INC." DURING OCTOBER THROUGH NOVEMBER, 2015.
- ALL PROPERTY LINES SHOWN ON THIS DRAWING WERE DERIVED FROM CLIENT PROVIDED GIS SHAPE FILES FOR BUTLER COUNTY TAX PARCEL MAPPING AND REFLECTS THE DEGREE OF ACCURACY THEREOF. WHERE PROPERTY OCCUPATION LINES WERE VISIBLE ON AERIAL IMAGERY AND FIELD LOCATED BOUNDARY EVIDENCE WAS ESTABLISHED, SOME OF THE ORIGINAL PARCEL LINES MAY HAVE BEEN MODIFIED AND/OR ADJUSTED TO BETTER FIT THE OCCUPATIONAL EVIDENCE.
- THE AERIAL PHOTOGRAPHY USED FOR THESE AS-BUILT PIPELINE ALIGNMENT DRAWINGS WAS COPIED FROM OGRIP, (OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM) AND HAS A PHOTOGRAPHY DATE OF 2006. THIS DATE IS CONSIDERED TO BE THE LAST MODIFICATION DATE ACCORDING TO OGRIP.
- UNLESS SPECIFICALLY NOTED HEREON, UTILITY INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, UTILITY COVERS, UTILITY MARKERS, ETC.) WHERE REQUIRED. DESPITE MEETING THE REQUIRED STANDARD OF CARE "KEYSTONE SURVEYING AND MAPPING, INC." CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC, FIBER OPTIC, ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS, "ONE-CALL"), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HERE-ON "KEYSTONE SURVEYING AND MAPPING, INC." HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. "KEYSTONE SURVEYING AND MAPPING, INC." MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON. "KEYSTONE SURVEYING & MAPPING, INC." ASSUMES NO LIABILITY FOR ANY UNDERGROUND UTILITIES AND/OR OTHER POTENTIAL FOREIGN LINE CROSSINGS DISCOVERED DURING CONSTRUCTION THAT WERE NOT FULLY RESOLVED BY "ONE-CALL" EFFORTS, WHICH MAY BE ENCOUNTERED THROUGHOUT THE COURSE OF CONSTRUCTION. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS. THE CONSTRUCTION CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE AREA OF WORK PRIOR TO CONSTRUCTION, AND CALL THE APPROPRIATE "ONE-CALL" SYSTEM AND ALL OTHER UTILITY COMPANIES AT LEAST 3 WORKING DAYS (72 HRS) PRIOR TO ANY ON SITE CONSTRUCTION. THE CONSTRUCTION CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PERFORM ALL "ONE-CALL" EFFORTS INCLUDING FIELD VERIFICATION AND/OR RESOLUTIONS OF ANY EXISTING OR POSSIBLE UNKNOWN UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION.
- ALL SURVEY DATA AND INFORMATION SHOWN ON THESE FINAL AS-BUILT DRAWINGS IS CURRENT AS OF THE SUBMITTAL DATE SHOWN. ANY ADDITIONAL DATA OR INFORMATION PROVIDED TO "KEYSTONE SURVEYING & MAPPING, INC." FROM THE "CLIENT" AFTER THE SUBMITTAL DATE SHOWN WILL REQUIRE ANOTHER PURCHASE ORDER AND/OR CHANGE ORDER FOR "KEYSTONE SURVEYING & MAPPING, INC." TO REVISE THESE AS-BUILT DRAWINGS, IF THE ORIGINAL PURCHASE ORDER HAS BEEN CLOSED.
- WHERE "HORIZONTAL DIRECTIONAL DRILLING" (HDD) HAS OCCURRED, THE BEST AVAILABLE COMPILATION OF FIELD SURVEY DATA AND ALL OTHER HDD DATA WERE USED, IF PROVIDED, TO GENERATE A FINAL AS-BUILT PROFILE OF THE PIPE. IN MOST INSTANCES, "KEYSTONE SURVEYING & MAPPING, INC." IS NOT PROVIDED ANY HDD DATA SHEETS FROM THE "CONTRACTOR" OR "CLIENT." WHEN THIS OCCURS, A "BEST-FIT" PROFILE IS GENERATED USING THE ACTUAL SURVEYED TIE-IN LOCATIONS AND THE FIELD MEASURED BORE PIPE LENGTHS. THEREFORE, ALL PIPE SHOWN ON THE PROFILE WHERE HDD HAS OCCURRED IS SHOWN IN APPROXIMATE LOCATIONS. "KEYSTONE SURVEYING & MAPPING, INC." ASSUMES NO LIABILITY FOR ANY UNDERGROUND PIPE WHERE HDD HAS OCCURRED.

DRAWING INDEX:

SHEET TS	TITLE SHEET
SHEET X1	INDEX SHEET
SHEET 1-7	PLAN AND PROFILE OF AS-BUILT GAS PIPELINE
SHEET T1-T5	AS-BUILT PIPELINE TALLY REPORT
SHEET T5	PIPE SPECIFICATIONS TABLE

BENCHED PIPELINE RIGHT-OF-WAY



DISCLAIMER NOTE: ALL LABELED DIMENSIONS FOR THE SEPARATION OF THE PIPELINE AND GROUND PROFILES ARE FIELD MEASURED DEPTHS AT THE TIME OF SURVEY BASED ON THE TOP OF PIPE UP TO THE TOP OF THE TRENCH AT THE BENCHED RIGHT-OF-WAY GROUND ELEVATION. THE PIPELINE PROFILE SHOWN ON THIS AS-BUILT SURVEY HAS BEEN GENERATED BY ACTUAL SURVEYED ELEVATION MEASUREMENTS OF THE TOP OF PIPE IN ITS FINAL POSITION AT THE BOTTOM OF THE TRENCH. THE GROUND PROFILE SHOWN HAS BEEN GENERATED BASED ON AN INTERPOLATION OF ORIGINAL EXISTING GROUND ELEVATION CONDITIONS AND MAY OR MAY NOT REPRESENT THE FINAL GRADED GROUND ELEVATIONS WITHIN THE PIPELINE RIGHT-OF-WAY AFTER CONSTRUCTION IS COMPLETE AND THE RIGHT-OF-WAY HAS BEEN RE-GRADED. THEREFORE, ANY FUTURE DETERMINATION OF THE DEPTH OF THIS PIPELINE SHALL INCLUDE PHYSICAL FIELD LOCATION AND VERIFICATION PRIOR TO ANY NEW CIVIL DESIGN WORK OR CONSTRUCTION THAT MAY COME WITHIN RANGE OF OR CONTACT WITH THIS PIPELINE. CALCULATED DEPTHS MAY HAVE BEEN INTEGRATED ON THESE AS-BUILT DRAWINGS, WHICH ARE COMPUTED FROM THE INTERPOLATED SURFACE DOWN TO THE ACTUAL MEASURED TOP OF PIPE ELEVATIONS. THEY ARE USED FOR DISPLAY PURPOSES ONLY AND ARE SHOWN IN AREAS WHERE FIELD MEASURED DEPTHS WERE UNACHIEVABLE. HDD BORE SITES, INTERFERENCE AND/OR OBSTRUCTIONS FROM CONSTRUCTION WORK, UNSAFE FIELD CONDITIONS AND/OR LOCATIONS, ETC., ARE POSSIBLE REASONS FOR REQUIRING THESE CALCULATED DEPTHS.

AS BUILT SHEET LEGEND

	EXISTING RIGHT OF WAY
	AS-BUILT PIPELINE WITH WELD LOCATION
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRES
	TAX MAP PARCELS
	SURVEYED BOUNDARY LINES
	TOWNSHIP LINE
	EXISTING STREAM
	STREAM CROSSING
	ROAD CROSSING
	AS BUILT TRENCH PLUG

REVISIONS		
NO.	DESCRIPTION	DATE

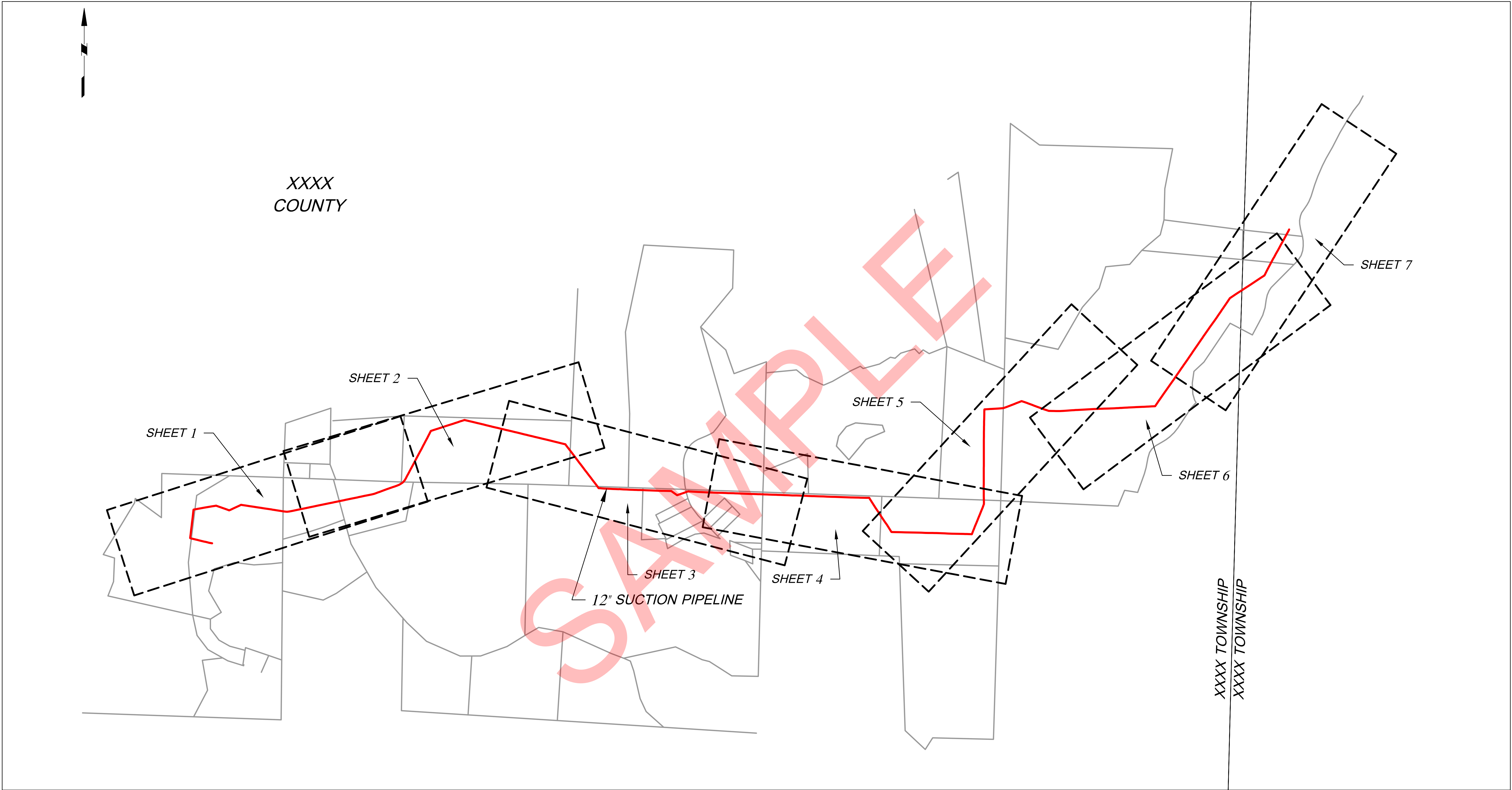


KEYSTONE SURVEYING & MAPPING INC.
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT: 12" SUCTION LINE XXXXX TOWNSHIP XXXXX TOWNSHIP DRAWING TITLE: TITLE SHEET	PROJECT NO.: XXXX-XXXX	DRAWING NO.: TS 1 OF 14
	DATE: XX/XX/XX	
	SCALE: 1"=600'	
	DRN. BY: XXX	
	CHECKED BY: XXX	

SUCTION LINE, 12" AS-BUILT



PLAN VIEW
SCALE IN FEET
0 500 1000

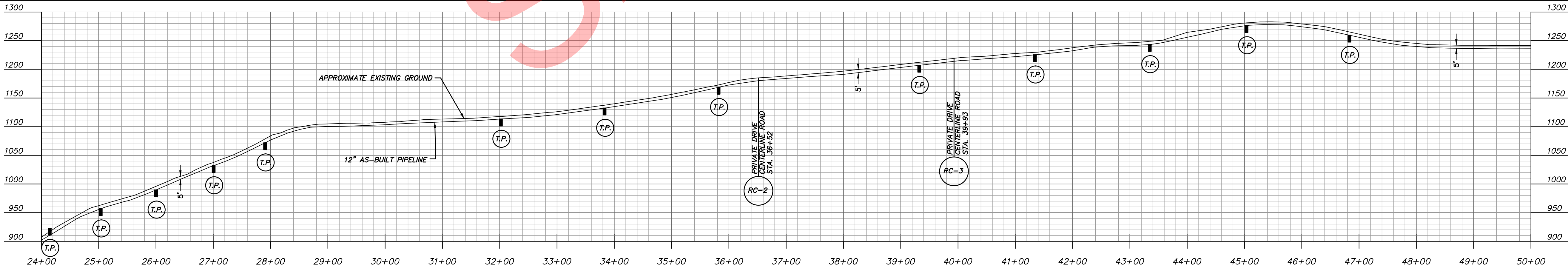
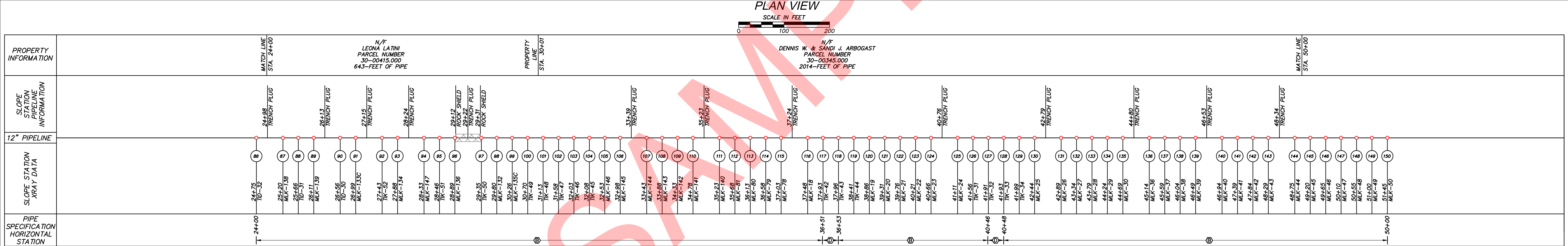
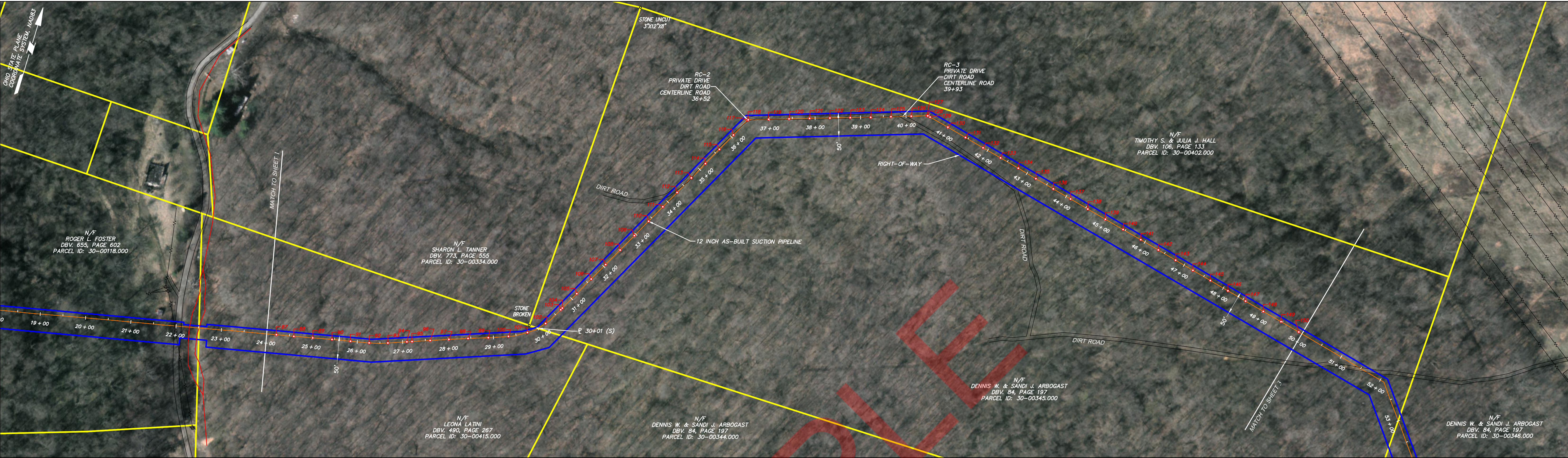
REVISIONS		
NO.	DESCRIPTION	DATE



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199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT: 12" SUCTION LINE XXXXX TOWNSHIP XXXXX TOWNSHIP DRAWING TITLE: INDEX SHEET	PROJECT NO.: XXXX-XXXX	X1 2 OF 14
	DATE: XX/XX/XX	
	SCALE: 1"=500'	
	DRN. BY: XXX	
CHECKED BY: XXX		



12 INCH SUCTION AS-BUILT PIPELINE PROFILE
SCALE HORIZONTAL: 1"=100'; VERTICAL: 1"=100'

NOTES:

- XRAY LOCATIONS SHOWN IN PLAN VIEW REPRESENT HORIZONTAL STATION LOCATIONS BASED ON FIELD SURVEY DATA. XRAY LOCATIONS SHOWN IN PIPE TABLE REPRESENT SLOPE STATIONING BASED ON ACTUAL PIPE ELEVATIONS AND LENGTHS.
- FOR ADDITIONAL PIPE INFORMATION REFER TO PIPE TALLY REPORT DRAWING T1-T3.
- TOTAL LINEAR DISTANCE OF PIPE ROUTE IS 16,123' BASED ON AS-BUILT ALIGNMENT. THE TOTAL LENGTH OF PIPE CONSTRUCTED IS 16,522' BASED ON SURVEYED ELEVATIONS AND PIPE LENGTHS.

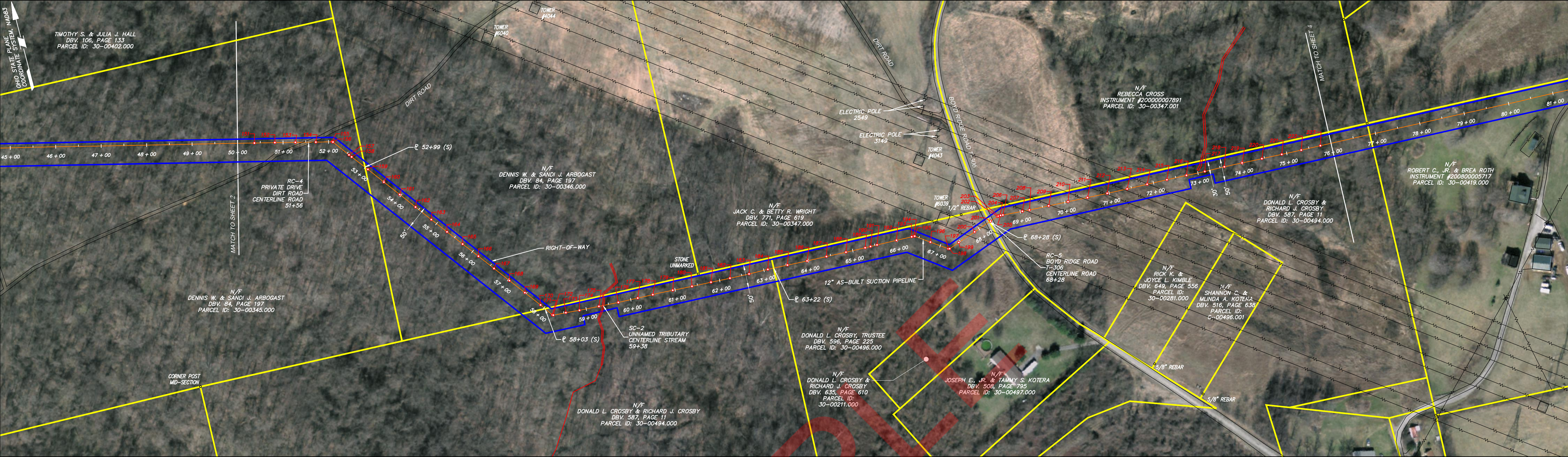
PIPE SPECIFICATIONS		QUANTITY	REVISIONS		
			NO.	DESCRIPTION	DATE
(A)	16" STEEL 16" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	0'			
(B)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	2596'			
(C)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE + 20-25 MLS ARO	0'			
(D)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 Y-52 ERW W/ 14-16 MLS FBE	4'			



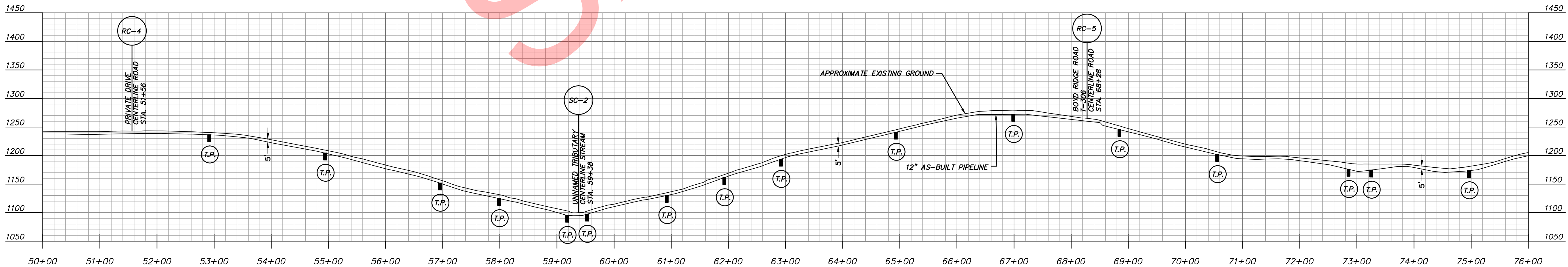
KEYSTONE SURVEYING & MAPPING INC.
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT: 12" SUCTION LINE		PROJECT NO.: XXX-XXXX	DRAWING NO.: 2 4 OF 14
XXXX & XXXX TOWNSHIPS XXXX COUNTY XXXX		DATE: XX/XX/XX	
DRAWING TITLE: PLAN AND PROFILE OF AS-BUILT GAS PIPELINE		SCALE: 1"=100'	
		DRN. BY: XXX	
		CHECKED BY: XXX	



PROPERTY INFORMATION	DENNIS W. & SANDI J. ARBOGAST N/F DBV. 84, PAGE 197 PARCEL ID: 30-00346.000 299'-FEET OF PIPE		DENNIS W. & SANDI J. ARBOGAST N/F DBV. 84, PAGE 197 PARCEL ID: 30-00345.000 517'-FEET OF PIPE		DONALD L. CROSBY & RICHARD J. CROSBY N/F DBV. 587, PAGE 11 PARCEL ID: 30-00494.000 538'-FEET OF PIPE		DONALD L. CROSBY, TRUSTEE N/F DBV. 596, PAGE 225 PARCEL ID: 30-00496.000 514'-FEET OF PIPE		DONALD L. CROSBY & RICHARD J. CROSBY N/F DBV. 587, PAGE 11 PARCEL ID: 30-00494.000 789'-FEET OF PIPE	
SLOPE STATION INFORMATION	54+44 TRENCH FLUG		56+50 TRENCH FLUG		58+57 TRENCH FLUG		60+46 CAD WELD		68+92 TRENCH FLUG	
12" PIPELINE	54+44 TRENCH FLUG		56+50 TRENCH FLUG		58+57 TRENCH FLUG		60+46 CAD WELD		68+92 TRENCH FLUG	
SLOPE STATION XRAY DATA	191	192	193	194	195	196	197	198	199	200
PIPE SPECIFICATION HORIZONTAL STATION	51+00	52+00	53+00	54+00	55+00	56+00	57+00	58+00	59+00	60+00



12 INCH SUCTION AS-BUILT PIPELINE PROFILE
SCALE HORIZONTAL: 1"=100'; VERTICAL: 1"=100'

NOTES:

- XRAY LOCATIONS SHOWN IN PLAN VIEW REPRESENT HORIZONTAL STATION LOCATIONS BASED ON FIELD SURVEY DATA. XRAY LOCATIONS SHOWN IN PIPE TABLE REPRESENT SLOPE STATIONING BASED ON ACTUAL PIPE ELEVATIONS AND LENGTHS.
- FOR ADDITIONAL PIPE INFORMATION REFER TO PIPE TALLY REPORT DRAWING T1-12.
- TOTAL LINEAR DISTANCE OF PIPE ROUTE IS 16,123' BASED ON AS-BUILT ALIGNMENT. THE TOTAL LENGTH OF PIPE CONSTRUCTED IS 16,522' BASED ON SURVEYED ELEVATIONS AND PIPE LENGTHS.

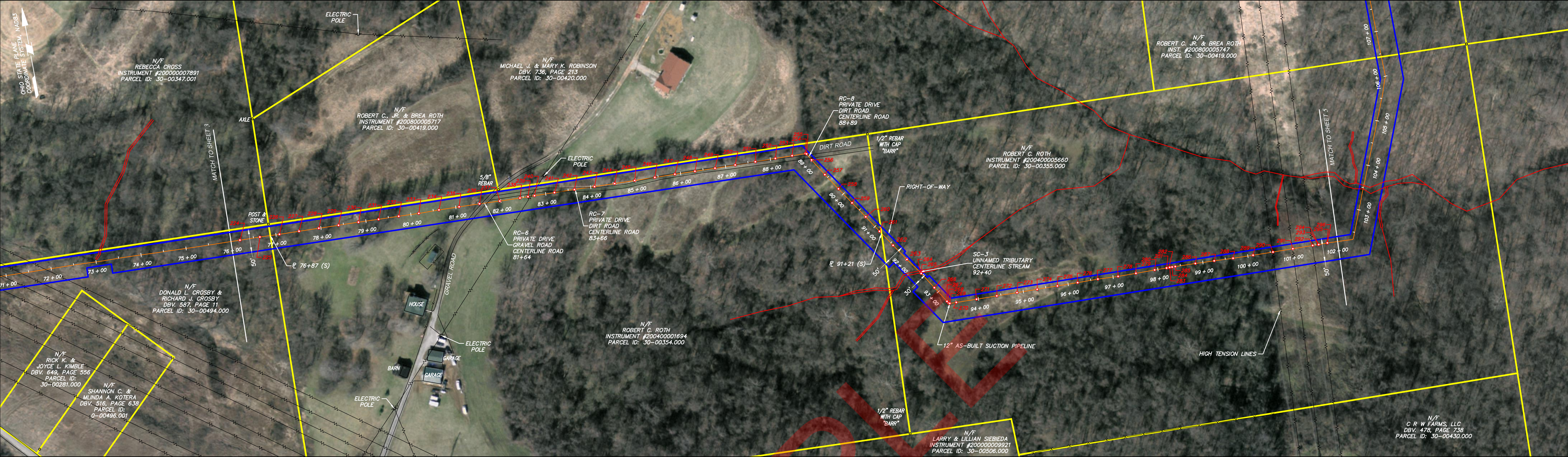
PIPE SPECIFICATIONS			QUANTITY			REVISIONS		
(A)	16" STEEL 16" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE		0'	NO.	DESCRIPTION	DATE		
(B)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE		2587'					
(C)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE + 20-25 MLS ARO		0'					
(D)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 Y-52 ERW W/ 14-16 MLS FBE		13'					



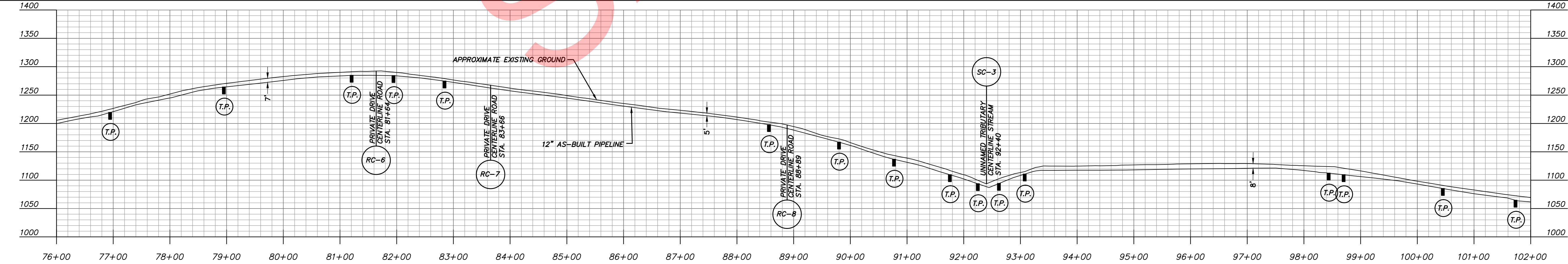
KEYSTONE SURVEYING & MAPPING INC.
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT:		PROJECT NO.:	DRAWING NO.:
12" SUCTION LINE		XXX-XXXX	
XXXX & XXXX TOWNSHIPS XXXX COUNTY XXXX		DATE:	XX/XX/XX
DRAWING TITLE:		SCALE:	1"=100'
PLAN AND PROFILE OF AS-BUILT GAS PIPELINE		DRN. BY:	XXX
		CHECKED BY:	XXX



PROPERTY INFORMATION		DONALD L. CROSBY & RICHARD J. CROSBY PARCEL NUMBER 30-00494.000 89- FEET OF PIPE		N/F ROBERT C. ROTH PARCEL NUMBER 30-00354.000 1455- FEET OF PIPE		N/F ROBERT C. ROTH PARCEL NUMBER 30-00355.000 1094- FEET OF PIPE		MATCH LINE STA. 102+00	
SLOPE STATION PIPELINE INFORMATION		79+07 TRENCH PLUG		81+13 TRENCH PLUG		83+39 TRENCH PLUG		84+89 TRENCH PLUG	
12" PIPELINE		79+07 TRENCH PLUG		81+13 TRENCH PLUG		83+39 TRENCH PLUG		84+89 TRENCH PLUG	
SLOPE STATION XRAY DATA		79+07 TRENCH PLUG		81+13 TRENCH PLUG		83+39 TRENCH PLUG		84+89 TRENCH PLUG	
PIPE SPECIFICATION HORIZONTAL STATION		79+07 TRENCH PLUG		81+13 TRENCH PLUG		83+39 TRENCH PLUG		84+89 TRENCH PLUG	



12 INCH SUCTION AS-BUILT PIPELINE PROFILE
SCALE HORIZONTAL: 1"=100'; VERTICAL: 1"=100'

NOTES:

- XRAY LOCATIONS SHOWN IN PLAN VIEW REPRESENT HORIZONTAL STATION LOCATIONS BASED ON FIELD SURVEY DATA. XRAY LOCATIONS SHOWN IN PIPE TABLE REPRESENT SLOPE STATIONING BASED ON ACTUAL PIPE ELEVATIONS AND LENGTHS.
- FOR ADDITIONAL PIPE INFORMATION REFER TO PIPE TALLY REPORT DRAWING T1-T2.
- TOTAL LINEAR DISTANCE OF PIPE ROUTE IS 16,123' BASED ON AS-BUILT ALIGNMENT. THE TOTAL LENGTH OF PIPE CONSTRUCTED IS 16,522' BASED ON SURVEYED ELEVATIONS AND PIPE LENGTHS.

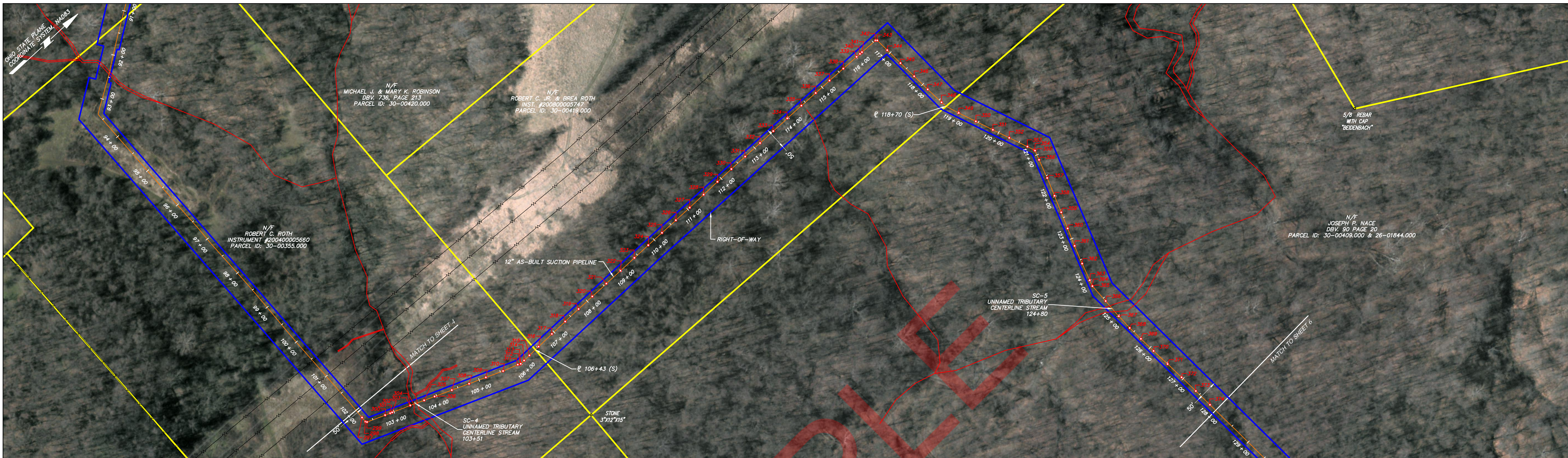
PIPE SPECIFICATIONS		QUANTITY		REVISIONS	
(A)	16" STEEL 16" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	0'	NO.	DESCRIPTION	DATE
(B)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	2592'			
(C)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE + 20-25 MLS ARO	0'			
(D)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 Y-52 ERW W/ 14-16 MLS FBE	8'			



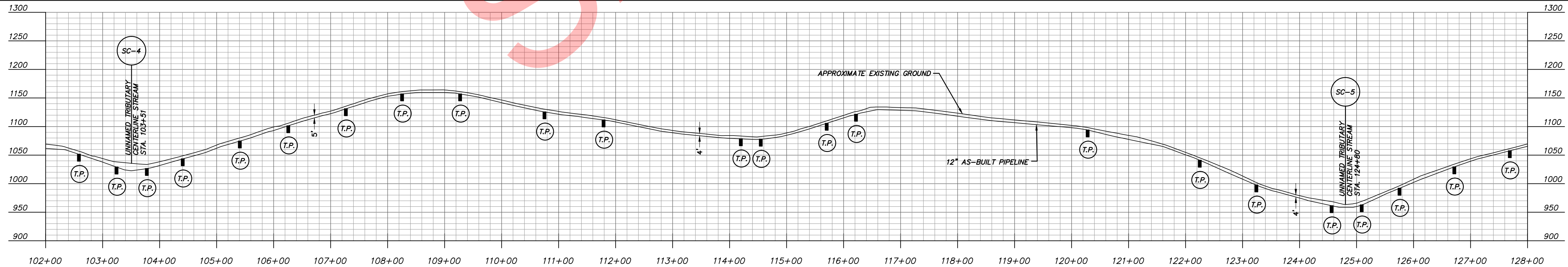
KEYSTONE SURVEYING & MAPPING INC.
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT:		PROJECT NO.:		DRAWING NO.:	
12" SUCTION LINE		XXX-XXXX		4	
DATE:		XX/XX/XX		6 OF 14	
SCALE:		1"=100'			
DRN. BY:		XXX			
CHECKED BY:		XXX			



PIPE SPECIFICATION HORIZONTAL STATION	SLOPE STATION XRAY DATA	12" PIPELINE	SLOPE STATION PIPELINE INFORMATION	PROPERTY INFORMATION
102+00	104+71	297	104+73 104+75 104+77 104+79 104+81 104+83 104+85 104+87 104+89 104+91 104+93 104+95 104+97 104+99 105+01 105+03 105+05 105+07 105+09 105+11 105+13 105+15 105+17 105+19 105+21 105+23 105+25 105+27 105+29 105+31 105+33 105+35 105+37 105+39 105+41 105+43 105+45 105+47 105+49 105+51 105+53 105+55 105+57 105+59 106+01 106+03 106+05 106+07 106+09 106+11 106+13 106+15 106+17 106+19 106+21 106+23 106+25 106+27 106+29 106+31 106+33 106+35 106+37 106+39 106+41 106+43 106+45 106+47 106+49 106+51 106+53 106+55 106+57 106+59 107+01 107+03 107+05 107+07 107+09 107+11 107+13 107+15 107+17 107+19 107+21 107+23 107+25 107+27 107+29 107+31 107+33 107+35 107+37 107+39 107+41 107+43 107+45 107+47 107+49 107+51 107+53 107+55 107+57 107+59 108+01 108+03 108+05 108+07 108+09 108+11 108+13 108+15 108+17 108+19 108+21 108+23 108+25 108+27 108+29 108+31 108+33 108+35 108+37 108+39 108+41 108+43 108+45 108+47 108+49 108+51 108+53 108+55 108+57 108+59 109+01 109+03 109+05 109+07 109+09 109+11 109+13 109+15 109+17 109+19 109+21 109+23 109+25 109+27 109+29 109+31 109+33 109+35 109+37 109+39 109+41 109+43 109+45 109+47 109+49 109+51 109+53 109+55 109+57 109+59 110+01 110+03 110+05 110+07 110+09 110+11 110+13 110+15 110+17 110+19 110+21 110+23 110+25 110+27 110+29 110+31 110+33 110+35 110+37 110+39 110+41 110+43 110+45 110+47 110+49 110+51 110+53 110+55 110+57 110+59 111+01 111+03 111+05 111+07 111+09 111+11 111+13 111+15 111+17 111+19 111+21 111+23 111+25 111+27 111+29 111+31 111+33 111+35 111+37 111+39 111+41 111+43 111+45 111+47 111+49 111+51 111+53 111+55 111+57 111+59 112+01 112+03 112+05 112+07 112+09 112+11 112+13 112+15 112+17 112+19 112+21 112+23 112+25 112+27 112+29 112+31 112+33 112+35 112+37 112+39 112+41 112+43 112+45 112+47 112+49 112+51 112+53 112+55 112+57 112+59 113+01 113+03 113+05 113+07 113+09 113+11 113+13 113+15 113+17 113+19 113+21 113+23 113+25 113+27 113+29 113+31 113+33 113+35 113+37 113+39 113+41 113+43 113+45 113+47 113+49 113+51 113+53 113+55 113+57 113+59 114+01 114+03 114+05 114+07 114+09 114+11 114+13 114+15 114+17 114+19 114+21 114+23 114+25 114+27 114+29 114+31 114+33 114+35 114+37 114+39 114+41 114+43 114+45 114+47 114+49 114+51 114+53 114+55 114+57 114+59 115+01 115+03 115+05 115+07 115+09 115+11 115+13 115+15 115+17 115+19 115+21 115+23 115+25 115+27 115+29 115+31 115+33 115+35 115+37 115+39 115+41 115+43 115+45 115+47 115+49 115+51 115+53 115+55 115+57 115+59 116+01 116+03 116+05 116+07 116+09 116+11 116+13 116+15 116+17 116+19 116+21 116+23 116+25 116+27 116+29 116+31 116+33 116+35 116+37 116+39 116+41 116+43 116+45 116+47 116+49 116+51 116+53 116+55 116+57 116+59 117+01 117+03 117+05 117+07 117+09 117+11 117+13 117+15 117+17 117+19 117+21 117+23 117+25 117+27 117+29 117+31 117+33 117+35 117+37 117+39 117+41 117+43 117+45 117+47 117+49 117+51 117+53 117+55 117+57 117+59 118+01 118+03 118+05 118+07 118+09 118+11 118+13 118+15 118+17 118+19 118+21 118+23 118+25 118+27 118+29 118+31 118+33 118+35 118+37 118+39 118+41 118+43 118+45 118+47 118+49 118+51 118+53 118+55 118+57 118+59 119+01 119+03 119+05 119+07 119+09 119+11 119+13 119+15 119+17 119+19 119+21 119+23 119+25 119+27 119+29 119+31 119+33 119+35 119+37 119+39 119+41 119+43 119+45 119+47 119+49 119+51 119+53 119+55 119+57 119+59 120+01 120+03 120+05 120+07 120+09 120+11 120+13 120+15 120+17 120+19 120+21 120+23 120+25 120+27 120+29 120+31 120+33 120+35 120+37 120+39 120+41 120+43 120+45 120+47 120+49 120+51 120+53 120+55 120+57 120+59 121+01 121+0	



NOTES:

1. XRAY LOCATIONS SHOWN IN PLAN VIEW REPRESENT HORIZONTAL STATION LOCATIONS BASED ON FIELD SURVEY DATA. XRAY LOCATIONS SHOWN IN PIPE TABLE REPRESENT SLOPE STATIONING BASED ON ACTUAL PIPE ELEVATIONS AND LENGTHS.
2. FOR ADDITIONAL PIPE INFORMATION REFER TO PIPE TALLY REPORT DRAWING T1-T5.
3. TOTAL LINEAR DISTANCE OF PIPE ROUTE IS 16,123' BASED ON AS-BUILT ALIGNMENT. THE TOTAL LENGTH OF PIPE CONSTRUCTED IS 16,522' BASED ON SURVEYED ELEVATIONS AND PIPE LENGTHS.

PIPE SPECIFICATIONS		QUANTITY	REVISIONS		
(A)	16" STEEL 16" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	0'	NO.	DESCRIPTION	DATE
(B)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	1589'			
(C)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE + 20-25 MLS ARO	0'			
(D)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 Y-52 ERW W/ 14-16 MLS FBE	11'			



KEYSTONE SURVEYING & MAPPING INC
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT:

12" SUCTION LINE

XXXX & XXXX TOWNSHIPS

XXXX COUNTY XXXX

DRAWING TITLE:

PLAN AND PROFILE OF AS-BUILT GAS PIPELINE

PROJECT NO.:

XXX_XXXX

DATE:

XX	SCALE
----	-------

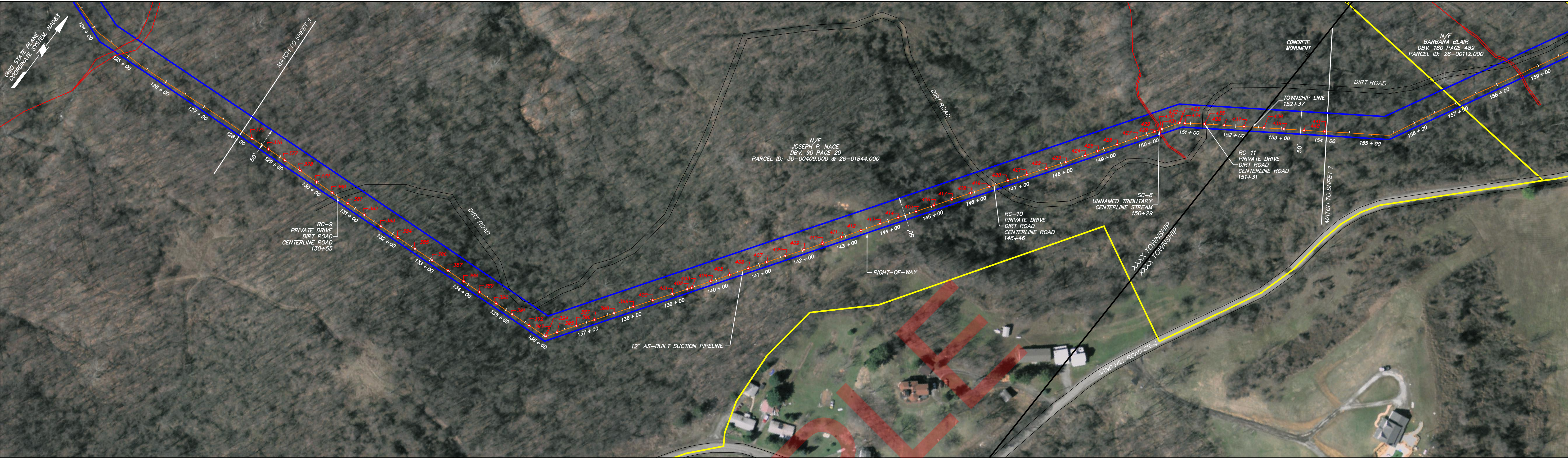
DRN. BY:

1454

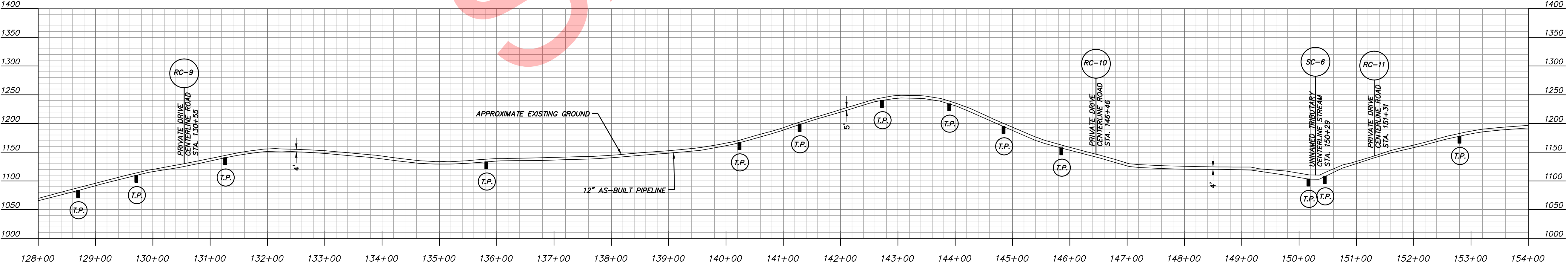
xxx

DRAWING NO.:	
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5



PROPERTY INFORMATION	MATCH LINE STA. 128+00
SLOPE STATION PIPELINE INFORMATION	
12" PIPELINE	
SLOPE STATION XRAY DATA	375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441
PIPE SPECIFICATION HORIZONTAL STATION	128+00, 131+80, 132+05, 132+50, 132+92, 133+37, 133+79, 134+18, 134+66, 135+11, 135+56, 136+02, 136+47, 136+93, 137+31, 137+73, 138+18, 138+60, 139+04, 139+50, 140+20, 140+69, 141+17, 141+52, 142+42, 142+77, 143+07, 143+32, 144+28, 144+67, 145+12, 145+57, 146+03, 146+48, 146+83, 147+38, 147+83, 148+28, 148+63, 149+08, 149+53, 150+08, 150+53, 150+98, 151+43, 151+88, 152+33, 152+78, 153+24, 153+69, 154+14, 154+59, 155+04, 155+49, 155+94, 156+39, 156+84, 157+29, 157+74, 158+19, 158+64, 159+09, 159+54, 160+00



12 INCH SUCTION AS-BUILT PIPELINE PROFILE
SCALE HORIZONTAL: 1"=100'; VERTICAL: 1"=100'

NOTES:

- XRAY LOCATIONS SHOWN IN PLAN VIEW REPRESENT HORIZONTAL STATION LOCATIONS BASED ON FIELD SURVEY DATA. XRAY LOCATIONS SHOWN IN PIPE TABLE REPRESENT SLOPE STATIONING BASED ON ACTUAL PIPE ELEVATIONS AND LENGTHS.
- FOR ADDITIONAL PIPE INFORMATION REFER TO PIPE TALLY REPORT DRAWING T1-T3.
- TOTAL LINEAR DISTANCE OF PIPE ROUTE IS 16,123' BASED ON AS-BUILT ALIGNMENT. THE TOTAL LENGTH OF PIPE CONSTRUCTED IS 16,522' BASED ON SURVEYED ELEVATIONS AND PIPE LENGTHS.

PIPE SPECIFICATIONS			QUANTITY			REVISIONS		
(A)	16" STEEL 16" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	0'	NO.	DESCRIPTION	DATE			
(B)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	2593'						
(C)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE + 20-25 MLS ARO	0'						
(D)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 Y-52 ERW W/ 14-16 MLS FBE	7'						

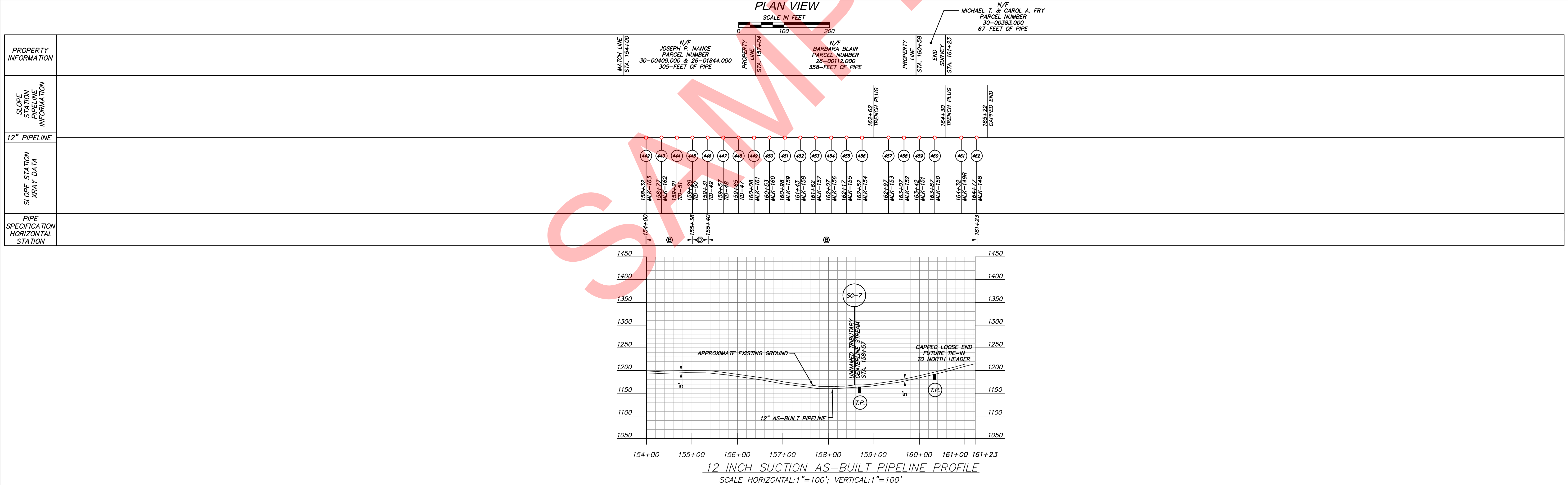
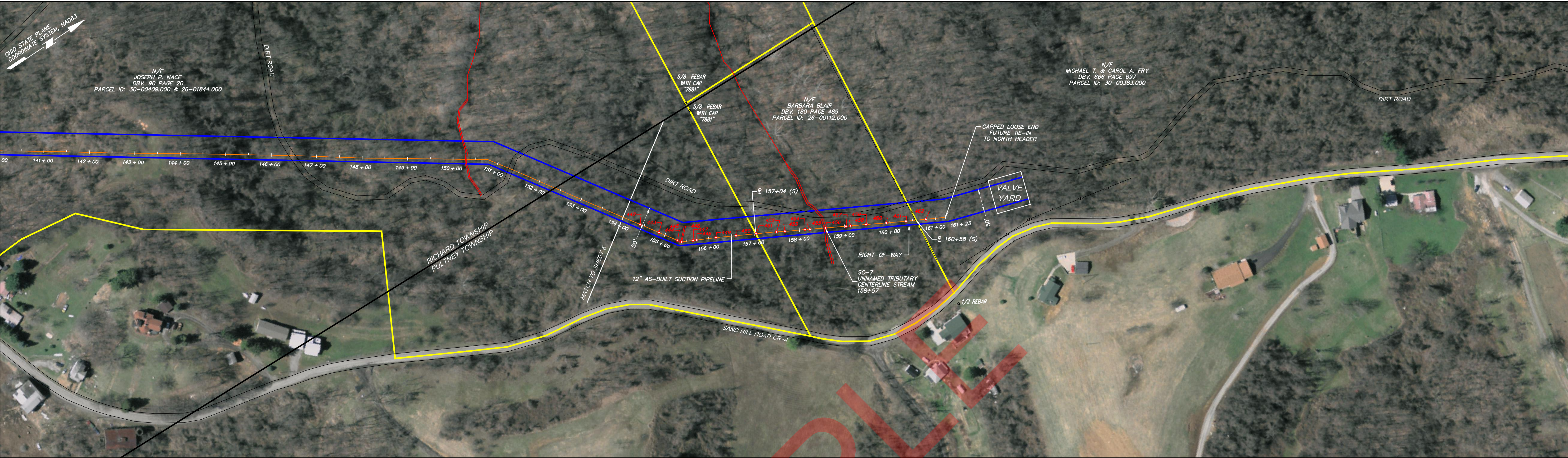


KEYSTONE SURVEYING & MAPPING INC.
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
OFFICE (724) 514-7949

CLIENT LOGO

PROJECT:	PROJECT NO.:	DRAWING NO.:
12" SUCTION LINE	XXX-XXXX	
XXXX & XXXX TOWNSHIPS XXXX COUNTY XXXX	DATE: XX/XX/XX	
DRAWING TITLE:	SCALE: 1"=100'	
PLAN AND PROFILE OF AS-BUILT GAS PIPELINE	DRN. BY: XXX	
	CHECKED BY: XXX	

6



NOTES:

- XRAY LOCATIONS SHOWN IN PLAN VIEW REPRESENT HORIZONTAL STATION LOCATIONS BASED ON FIELD SURVEY DATA. XRAY LOCATIONS SHOWN IN PIPE TABLE REPRESENT SLOPE STATIONING BASED ON ACTUAL PIPE ELEVATIONS AND LENGTHS.
- FOR ADDITIONAL PIPE INFORMATION REFER TO PIPE TALLY REPORT DRAWING T1-T3.
- TOTAL LINEAR DISTANCE OF PIPE ROUTE IS 16,123' BASED ON AS-BUILT ALIGNMENT. THE TOTAL LENGTH OF PIPE CONSTRUCTED IS 16,522' BASED ON SURVEYED ELEVATIONS AND PIPE LENGTHS.

PIPE SPECIFICATIONS		QUANTITY	REVISIONS		
			NO.	DESCRIPTION	DATE
(A)	16" STEEL 16" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	0'			
(B)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE	721'			
(C)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 X-52 ERW W/ 14-16 MLS FBE + 20-25 MLS ARO	0'			
(D)	12" STEEL 12.750" O.D. X .375" W.T., API 5L PSL2 Y-52 ERW W/ 14-16 MLS FBE	2'			

KEYSTONE SURVEYING & MAPPING INC.
199 SOUTH JOHNSON ROAD, BUILDING 2
HOUSTON, PA 15342
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CLIENT LOGO

PROJECT:	PROJECT NO.:	DRAWING NO.:
12" SUCTION LINE	XXX-XXXX	
XXXX & XXXX TOWNSHIPS XXXX COUNTY XXXX	DATE:	
	XX/XX/XX	
DRAWING TITLE:	SCALE:	
PLAN AND PROFILE OF AS-BUILT GAS PIPELINE	1"=100'	
	DRN. BY:	
	XXX	
	CHECKED BY:	
	XXX	

9 OF 14

SLOPE_STATION	XRAY_NUMBER	WELD_NUMBER	JOINT_NO_BACK	JOINT_BEHIND	JOINT_LENGTH_BACK	SURVEY_LENGTH_BACK	HEAT_BACK	NOTES	TYPE	DIRECTION	MATERIAL	NOM_DIAMETER	OUT_DIAMETER	WALL_THICKNESS	PIPE_GRADE	PIPE_SPEC	SEAM	COATING	HEAT	SPOOL_OR_BATCH	DEGREE	ROOTPASS_INITIALS	HOTPASS_INITIALS	RILPASS_INITIALS	COVERPASS_INITIALS	NOM_DIAMETER_BACK	OUT_DIAMETER_BACK	WALL_THICKNESS_BACK	PIPE_GRADE_BACK	PIPE_SPEC_BACK	SEAM_BACK	COATING_BACK	WRAP_TYPE	POINT_ID	HORIZONTAL_STATION	NORTHING	EASTING	ELEVATION	FEATURE_CODE
152+33.5	TK-75	424		RS382	45.1	45.0	N38677	13.0 PUP GENERATED (RS379-A)	FIELD BEND	OB	STEEL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	N23066		7.0B	BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24530	148+56.5	731625.489	243132.443	1101.152	WELD
152+34.6	MLK-234	425		RS379	45.1	29.1	N20239															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24529	148+56.5	731631.544	243146.862	1118.673	BE NO
152+35.2	TK-78	428		RS382	45.1	45.1	N23066															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24534	149+16.2	731676.792	243166.058	1118.842	BE NO
152+37.7	MLK-237	427		RS385	45.1	45.7	N22783															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24526	149+30.6	731680.024	243174.248	1118.673	WELD
152+38.8								TRENCH BREAKER														BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24483	149+75.8	731728.095	243189.542	1110.036	WELD
153+36.8																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24484	150+15.8	731783.554	243210.888	1102.913	MISC
153+35.8	MLK-229	428		RS386	45.1	42.7	N23066	2.4 PUP GENERATED (RS386-A)	FACTORY BEND	SAG	STEEL	12	12.75	0.375	Y52	API-5L PSL2	ERW	FBE				BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24486	150+17.6	731782.407	243223.41	1102.973	WELD
153+36.3																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24487	150+17.8	731782.611	243223.024	1102.941	BE NO
153+36.3	MLK-225	429		RS387	0.4	0.5	Z395AA															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24488	150+18.0	731782.795	243223.495	1102.956	WELD
153+37.9								CL DITCH														BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24490	150+21.1	731772.084	243229.654	1102.969	MISC
153+37.4	MLK-234	430		RS388	45.1	16.1	N18680	29.0 PUP GENERATED (RS388-A)	FACTORY BEND	SAG	STEEL	12	12.75	0.375	Y52	API-5L PSL2	ERW	FBE				BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24500	150+34.7	731776.54	243232.841	1102.812	BE NO
154+13.0	MLK-238	431		RS389	1.1	1.2	Z395AA															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24504	150+36.3	731877.194	243231.551	1102.847	WELD
154+15.5								TRENCH BREAKER														BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24505	150+37.0	731780.619	243231.047	1111.365	MISC
154+38.0	TK-75	432		RS390	45.1	44.4	N23066															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24508	150+51.3	731820.348	243255.508	1122.158	WELD
154+38.5								FACTORY BEND	OB	STEEL	12	12.75	0.375	Y52	API-5L PSL2	ERW	FBE					BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24509	150+51.8	731820.603	243255.774	1122.391	BE NO
154+38.5	MLK-236	433		RS393	1.4	1.4	Z395AA															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24510	150+56.7	731821.324	243256.473	1122.466	WELD
154+71.1	MLK-233	434		RS388-A	28.0	11.7	N18680	17.3 PUP GENERATED (RS388-B)														BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24512	150+67.8	731817.32	243265.813	1126.184	WELD
154+38.3	TK-74	435		RS389	45.1	45.2	N23066															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24514	151+30.8	731841.649	243281.811	1140.052	WELD
154+45.7				RS281																		BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24512	151+30.0	731837.078	243324.829	1148.387	BE NO
154+45.7	MLK-169	436		RS278	45.1	45.2	N18677		FIELD BEND	OB	STEEL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	N18677		2.0B	WC-DMA-DB	WC-DMA-DB	WC-DMA-DB	WC-DMA-DB	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24514	151+74.4	731865.482	243337.894	1152.144	WELD
154+46.4																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24516	152+06.4	731882.71	243336.705	1158.506	BE NO
154+46.4	MLK-168	437		RS279	45.1	44.9	N19083		FIELD BEND	SAG	STEEL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	N19083		2.5AG	WC-DMA-HM	WC-DMA-HM	WC-DMA-HM	WC-DMA-HM	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24518	152+18.1	731888.11	243334.503	1162.412	WELD
154+43.7																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24520	152+44.1	731904.186	243344.409	1172.111	WELD
154+13.5	MLK-167	438		RS278	45.1	45.1	N19089		FIELD BEND	OB	STEEL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	N19089		2.0B	WC-DMA-IL	WC-DMA-IL	WC-DMA-IL	WC-DMA-IL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24522	152+46.7	731913.021	243343.051	1173.822	WELD
154+45.5																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24523	152+59.2	731924.486	243345.486	1182.613	MISC
154+41.8	MLK-166	439		RS277	45.1	45.2	N19089		FIELD BEND	OB	STEEL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	N19089		2.0B	WC-DMA-DS	WC-DMA-DS	WC-DMA-DS	WC-DMA-DS	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24525	153+05.1	731929.101	243345.456	1180.313	BE NO
154+36.7																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24527	153+49.5	731937.367	243348.603	1183.038	WELD
154+32.8																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24529	153+52.8	731945.96	243346.395	1185.643	BE NO
154+41.8	MLK-165	440		RS276	45.1	45.1	N19083		FIELD BEND	OB	STEEL	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	N19083		3.0B	WC-DMA-DB	WC-DMA-DB	WC-DMA-DB	WC-DMA-DB	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24531	154+07.2	731961.791	243348.459	1186.374	WELD
154+36.8	MLK-164	441		RS275	45.1	45.0	N18677															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24533	154+09.2	731968.596	243352.599	1191.905	WELD
154+32.0	MLK-163	442		RS274	45.1	45.2	N18677															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24535	154+40.7	731971.803	243360.088	1194.073	WELD
154+77.1	MLK-162	443		RS273	45.1	45.1	N18680															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24537	154+48.3	731986.031	243368.331	1195.348	WELD
154+21.3	TK-53	444		RS272	45.1	44.2	N23066															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24539	154+58.1	731996.779	243374.051	1196.407	WELD
154+28.5	TK-50	445		RS271	45.1	8.1	N18677	17.0 PUP GENERATED (RS271-A)	FACTORY BEND	SB LEFT	STEEL	12	12.75	0.375	Y52	API-5L PSL2	ERW	FBE	Z395AA		30.11	BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24541	154+58.1	731996.779	243374.051	1196.407	WELD
154+30.3																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24543	154+58.1	731996.779	243374.051	1196.407	WELD
154+31.3	TK-48	447		RS266-A	28.3	25.9	N18677	29.1 PUP GENERATED (RS271-B)														BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24545	154+58.1	731996.779	243374.051	1196.407	WELD
154+46.4	TK-47	448		RS275-A	37.0	7.9	N18677															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24547	154+58.1	731996.779	243374.051	1196.407	WELD
154+07.8	MLK-161	449		RS270	45.1	43.0	N23066															BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24549	154+58.1	731996.779	243374.051	1196.407	WELD
154+36.8																						BS-ID	BS-ID	BS-ID	BS-ID	12	12.75	0.375	X52	API-5L PSL2	ERW	FBE	ROD WRAP	24551	154+58.1	731996.779	243374.051	1196.407	WELD
154+32.9	MLK-160	450		RS369	45.1	45.1	N19089		FIELD BEND</																														

WELD JOBS	STATION	XRAY #	PHOTOS	JOINT AHEAD	HEAT AHEAD	HEAT	GRADE	COATING	TALLY LENGTH	SURVEY LENGTH	ANGLE		TYPE	DIRECTION	JOINT	COMMENT	LOCATION	WELDER ID	JOINT AHEAD-PIPE OD	JOINT AHEAD-PIPE W/T	JOINT AHEAD-GRADE	JOINT AHEAD-COATING SIZE	MATERIAL	OWNER	ID	HORIZONTAL STATION	Northing	Easting	Elevation	LATITUDE	LONGITUDE	Feature Code	Date and Time
0+0-0																				16"	0.5	YES	UNCOATED		101338	0+0-0	42708.920	127076.804	1103.94	N40°27'39.66138"	W80°15'28.19875"	FLANGE	7/14/2016 15:48
1	0+0-7	A1XR1065	A1XR 1065	AS576	984177				1.9	1.9								1857/4977	16"	0.5	YES	UNCOATED		101338	0+0-5	42708.431	127076.804	1103.46	N40°27'39.65734"	W80°15'28.19857"	WELD	1/14/2016 15:48	
2	0+0-8	A1XR1010	A1XR 1010	AS348A	771546				2.1	2.2								1857/4977	16"	0.5	YES	FBE		101354	0+0-2	42706.562	127076.802	1103.49	N40°27'39.66900"	W80°15'28.19727"	WELD	1/14/2016 15:48	
3	0+0-8	A1XR1059	A1XR 1059	AS576	7211NXX				3.2	3.8								6887/3187	16"	0.5	YES	UNCOATED		101354	0+0-4	42706.369	127076.855	1103.49	N40°27'39.67155"	W80°15'28.20007"	WELD	1/14/2016 15:48	
4	0+0-5										45 DEGREES		HOT	OVERRIDE	AS576		BEGIN			16"	0.5	YES	UNCOATED		11529	0+0-6	42702.578	127076.312	1103.31	N40°27'39.59939"	W80°15'28.20279"	WELD	8/27/2015 13:2
5	0+15-6	A1XR899	A1XR 499	AS578	7211NZN				2.2	2.1								9781/4810	16"	0.5	YES	FBE		11547	0+0-8	42700.902	127076.125	1102.13	N40°27'39.58478"	W80°15'28.20459"	ROCK SHIELD	8/27/2015 15:1	
6	0+17-1	A1XR500	A1XR 500	AS579	771550				2.8	2.6								9781/4810	16"	0.5	YES	UNCOATED		11532	0+13-1	42694.757	127076.626	1097.30	N40°27'39.52001"	W80°15'28.21349"	WELD	8/27/2015 13:3	
7	0+18-5								6	6							END	9781/4810	16"	0.5	YES	FBE		11548	0+18-0	42692.970	127076.348	1096.37	N40°27'39.58421"	W80°15'28.21172"	ROCK SHIELD	8/27/2015 15:2	
8	0+21-0																		16"	0.5	YES	UNCOATED		11549	0+18-2	42696.808	127076.079	1096.32	N40°27'39.48178"	W80°15'28.21441"	CAD	8/27/2015 15:2	
9	0+21-8	A1XR501	A1XR 501	AS580	7211MXT				6.6	6.5								9781/4810	16"	0.5	YES	UNCOATED		11550	0+19-0	42690.022	127076.068	1096.35	N40°27'39.47505"	W80°15'28.21426"	CAD	8/27/2015 15:2	
10	0+27-7	A1XR502	A1XR 502	AS256A	523338				15.6	15.7								9781/4810	16"	0.5	YES	UNCOATED		11535	0+24-8	42684.568	127076.080	1095.95	N40°27'39.42559"	W80°15'28.21979"	WELD	8/27/2015 13:3	
11	0+37-8	A1XR503	A1XR 503	AS582	7211NZZ				15.6	15.4								9781/4810	16"	0.5	YES	FBE		11536	0+27-7	42683.829	127076.106	1095.01	N40°27'39.41200"	W80°15'28.22557"	WELD	8/27/2015 13:3	
12	0+46-4	A1XR504	A1XR 504	AS583	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11537	0+34-5	42684.773	127076.610	1092.73	N40°27'39.41995"	W80°15'28.23651"	WELD	8/27/2015 13:3	
13	0+51-8	A1XR505	A1XR 505	AS584	771550				15.6	15.7								9781/4810	16"	0.5	YES	UNCOATED		11538	0+37-8	42683.279	127076.626	1092.73	N40°27'39.42559"	W80°15'28.24149"	WELD	8/27/2015 13:3	
14	0+56-8	A1XR506	A1XR 506	AS585	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11539	0+57-9	42686.884	127076.312	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
15	0+61-8	A1XR507	A1XR 507	AS586	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11540	0+71-3	42687.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
16	0+66-8	A1XR508	A1XR 508	AS587	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11541	0+71-3	42687.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
17	0+71-8	A1XR509	A1XR 509	AS588	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11542	0+71-3	42687.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
18	0+76-8	A1XR510	A1XR 510	AS589	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11543	0+71-3	42687.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
19	0+81-8	A1XR511	A1XR 511	AS590	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11544	0+81-1	42688.922	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
20	0+86-8	A1XR512	A1XR 512	AS591	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11545	0+81-1	42688.922	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
21	0+91-8	A1XR513	A1XR 513	AS592	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11546	0+91-1	42689.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
22	0+96-8	A1XR514	A1XR 514	AS593	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11547	0+96-1	42690.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
23	0+101-8	A1XR515	A1XR 515	AS594	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11548	0+101-1	42691.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
24	0+106-8	A1XR516	A1XR 516	AS595	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11549	0+106-1	42692.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
25	0+111-8	A1XR517	A1XR 517	AS596	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11550	0+111-1	42693.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
26	0+116-8	A1XR518	A1XR 518	AS597	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11551	0+116-1	42694.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
27	0+121-8	A1XR519	A1XR 519	AS598	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11552	0+121-1	42695.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
28	0+126-8	A1XR520	A1XR 520	AS599	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11553	0+126-1	42696.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
29	0+131-8	A1XR521	A1XR 521	AS600	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11554	0+131-1	42697.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
30	0+136-8	A1XR522	A1XR 522	AS601	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11555	0+136-1	42698.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
31	0+141-8	A1XR523	A1XR 523	AS602	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11556	0+141-1	42699.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
32	0+146-8	A1XR524	A1XR 524	AS603	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11557	0+146-1	42700.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
33	0+151-8	A1XR525	A1XR 525	AS604	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11558	0+151-1	42701.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
34	0+156-8	A1XR526	A1XR 526	AS605	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11559	0+156-1	42702.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
35	0+161-8	A1XR527	A1XR 527	AS606	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11560	0+161-1	42703.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
36	0+166-8	A1XR528	A1XR 528	AS607	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11561	0+166-1	42704.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
37	0+171-8	A1XR529	A1XR 529	AS608	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11562	0+171-1	42705.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
38	0+176-8	A1XR530	A1XR 530	AS609	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11563	0+176-1	42706.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
39	0+181-8	A1XR531	A1XR 531	AS610	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11564	0+181-1	42707.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
40	0+186-8	A1XR532	A1XR 532	AS611	771549				13.6	13.7								9781/4810	16"	0.5	YES	UNCOATED		11565	0+186-1	42708.972	127076.125	1087.63	N40°27'39.41427"	W80°15'28.26232"	WELD	8/27/2015 13:4	
41	0+191-8	A1XR533	A1XR 533	AS612	771549				13.6	13.7								9781/4810	16"	0.5	YES												

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