NEXUS GAS TRANSMISSION PROJECT

FERC ENVIRONMENTAL REPORT
(DOCKET NUMBER PF15-10-000)

VOLUME II-B – APPENDIX 1A

ALIGNMENT SHEETS – OHIO

Columbiana, Stark, Summit, Wayne Counties

MP 1.0 through MP 51.3

RIGHT-OF-WAY

TRACT NUMBERS

OH-COL-012.0000-SC	OH-COL-001.1100-RD	OH-COL-001.1000-SC	OH-COL-001.0700-SC	OH-COL-001.0400-SC	OH-COL-001.0500-RD	OH-COL-001.0400-SC	OH-COL-001.0100-RD	OH-COL-001.0000-SC
446 FT.	60 FT.	157 FT.	1175 FT.	1346 FT.	98 FT.	238 FT.	67 FT.	1123 FT.
27.0 RODS	3.6 RODS	9.5 RODS	71.2 RODS	81.6 RODS	5.9 RODS	14.4 RODS	4.1 RODS	68.1 RODS

0+00 | 4+46 | 5+06 | 6+63 | 18+38 | 31+84 | 32+82 | 35+20 | 35+87 | 47+10

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 0+00 PI – BEGIN

STA. 4+82 TWP HWY 842 (SCALED) CENTERLINE

STA. 6+82 MUNICIPALITY LINE

STA. 12+28 PI – 31°48'08" RT

STA. 15+88 PI – 60°15'25" RT

STA. 18+30 PI – 49°33'45" LT

STA. 28+55 PI – 46°00'45" LT

STA. 32+18 HAGAN RD (SCALED) CENTERLINE

STA. 35+52 TUNNEL HILL RD (SCALED) CENTERLINE

STA. 38+78 PI – 49°40'14" RT

STA. 47+10 PI – END OF PIPELINE

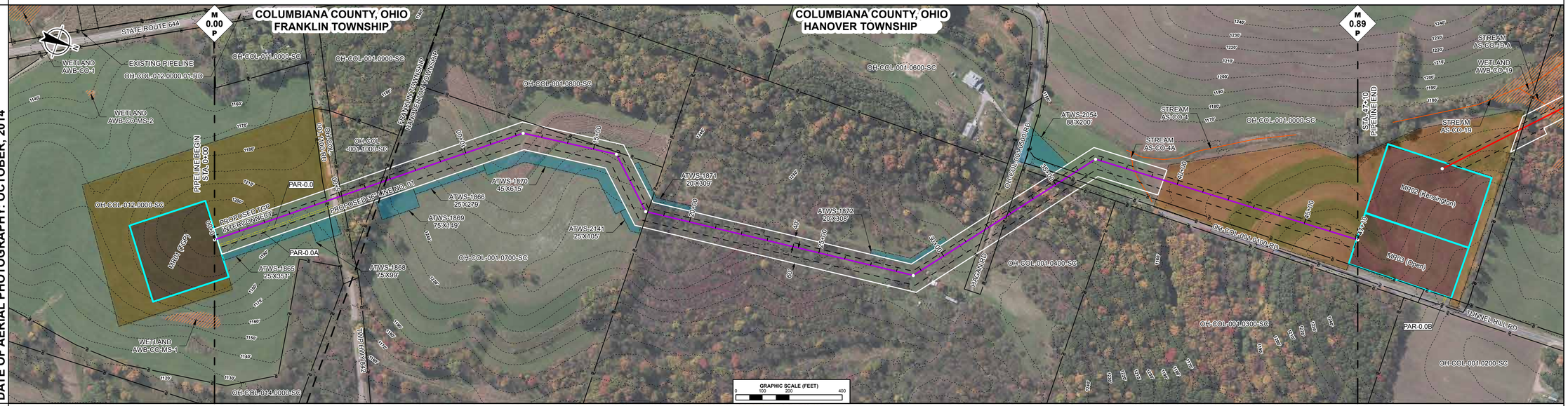
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (◇ 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (--120'--)
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



STA. 39+42 CENTERLINE OF STREAM AS-CO-4A, TRIB. TO BRUSH CREEK

ENVIRONMENTAL DATA

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

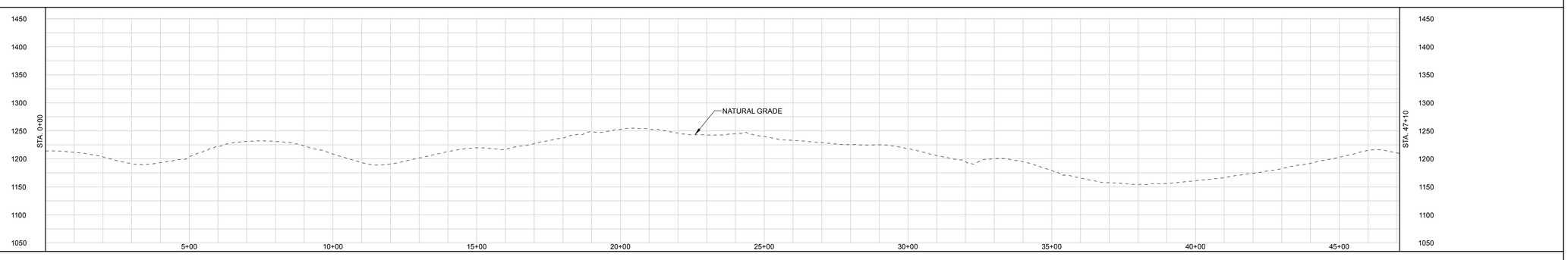
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\265_UPSTREAM_PIPELINE\265K_GIS\TurboRoute\ NEXUS PROPOSED TGP INTERCONNECT 001 of 1.pdf - PLOT TIME: 2015-04-23 10:26:31

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED TGP INTERCONNECT
M.P. 0.00 to M.P. 0.89
STA. 0+0 to STA. 47+10
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

23-Apr-2015	W.B.S.	Scale 1" = 200'	TGPI-A-1000	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

0+00	OH-CO-004.0100-SC	3+39	OH-CO-004.0200-SC	18+76	OH-CO-004.0300-SC	33+81	OH-CO-004.0400-SC	40+00
	339 FT. 20.5 RODS		1537 FT. 93.2 RODS		1505 FT. 91.2 RODS		619 FT. 37.5 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 0+00 PI – BEGIN

STA. 10+76 PI – 45°15'45" RT

STA. 19+46 PI – 89°54'11" LT

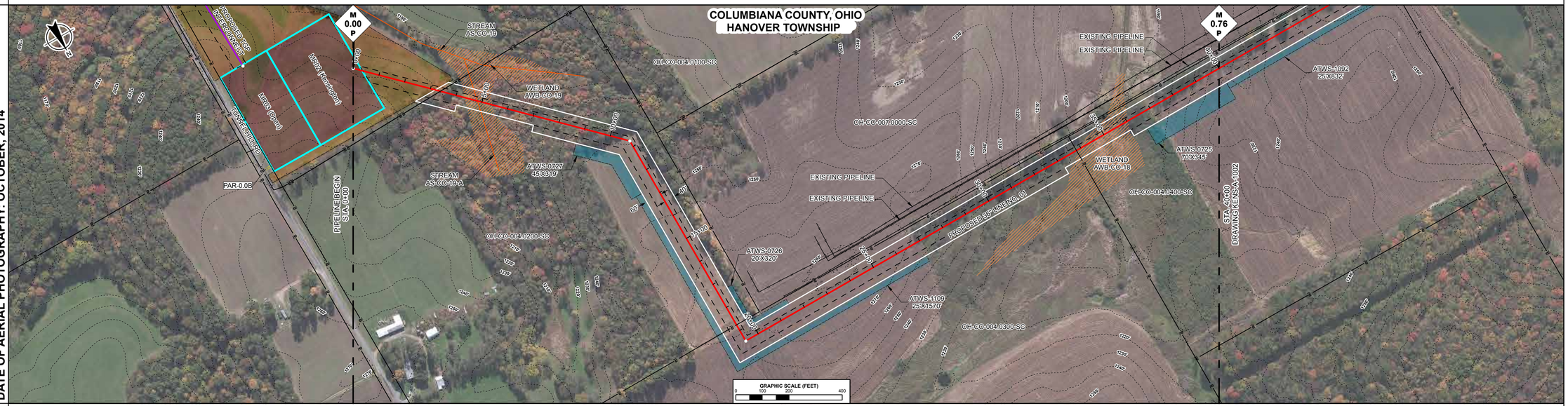
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE (T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 4+10 WETLAND AWB-CO-19 ENTER

STA. 4+82 CENTERLINE OF STREAM AS-CO-19-A TRIB TO BRUSH CREEK

STA. 5+59 WETLAND AWB-CO-19 EXIT

STA. 33+47 WETLAND AWB-CO-18 ENTER

STA. 36+21 WETLAND AWB-CO-18 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED (F)
SLOPE BREAKERS
TRENCH PLUG

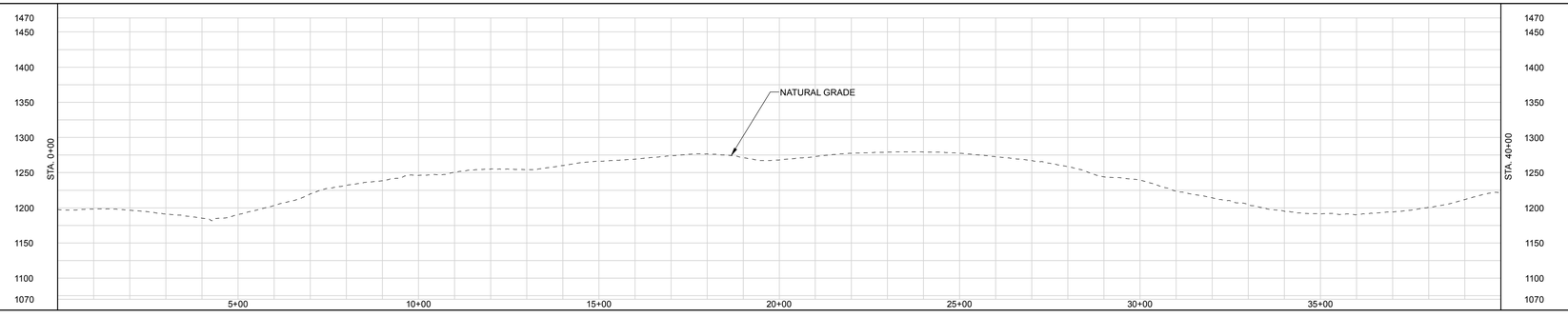
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 0.00 to M.P. 0.76
STA. 0+0 to STA. 40+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	KENS-A-1001	REV. A

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 001 of 266.pdf PLOT TIME: 2015-04-21 16:14:56

RIGHT-OF-WAY

TRACT NUMBERS

40+00	OH-CO-004.0400-SC: 722 FT. / 43.8 RODS	47+22	OH-CO-004.0500-SC: 122 FT. / 7.4 RODS	48+44	OH-CO-007.0000-SC: 614 FT. / 37.2 RODS	54+58	OH-CO-004.0700-SC: 175 FT. / 10.6 RODS	56+33	OH-CO-009.0000-RD: 67 FT. / 4.1 RODS	57+00	OH-CO-010.0000-SC: 463 FT. / 28.1 RODS	61+63	OH-CO-011.0000-SC: 690 FT. / 41.8 RODS	68+53	OH-CO-012.0001-SC: 1147 FT. / 69.5 RODS	80+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 48+68 PI – 16°53'43" LT
STA. 48+64 GAS PL
STA. 49+87 GAS PL
STA. 49+99 GAS PL
STA. 51+38 GAS PL
STA. 56+58 MECHANICSTOWN RD (SCALED) CENTERLINE
STA. 70+28 PI – 61°13'32" RT
STA. 73+57 TOWER, 65 FT. LEFT
STA. 73+57 PI – 100°08'44" RT
STA. 75+46 PI – 29°48'10" LT
STA. 78+47 PI – 29°48'12" RT

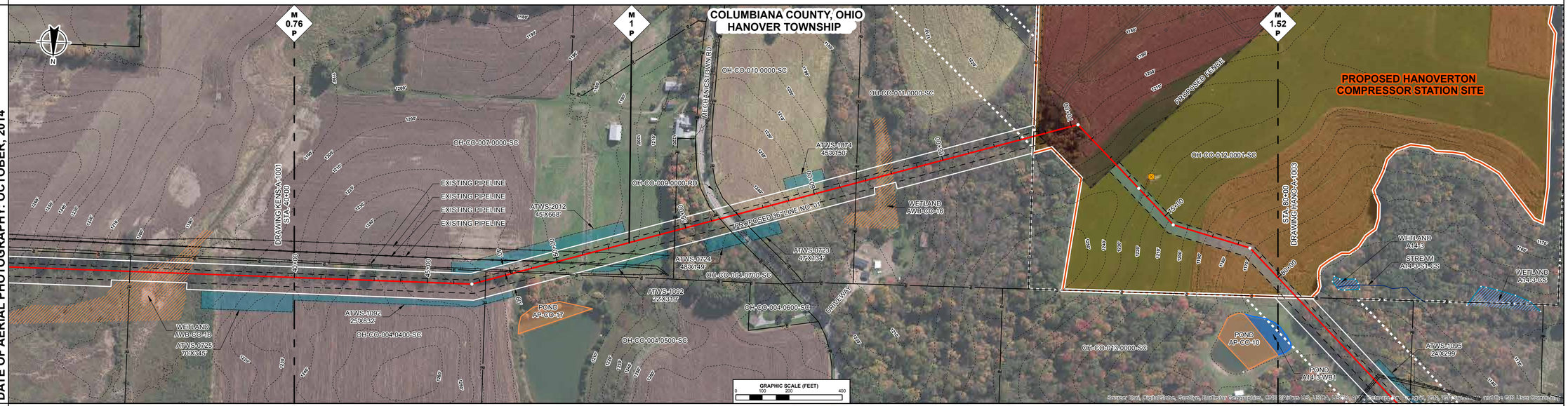
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 62+33 WETLAND AWB-CO-16 ENTER
STA. 63+15 WETLAND AWB-CO-16 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED (Ⓕ)
SLOPE BREAKERS (○)
TRENCH PLUG (▲)

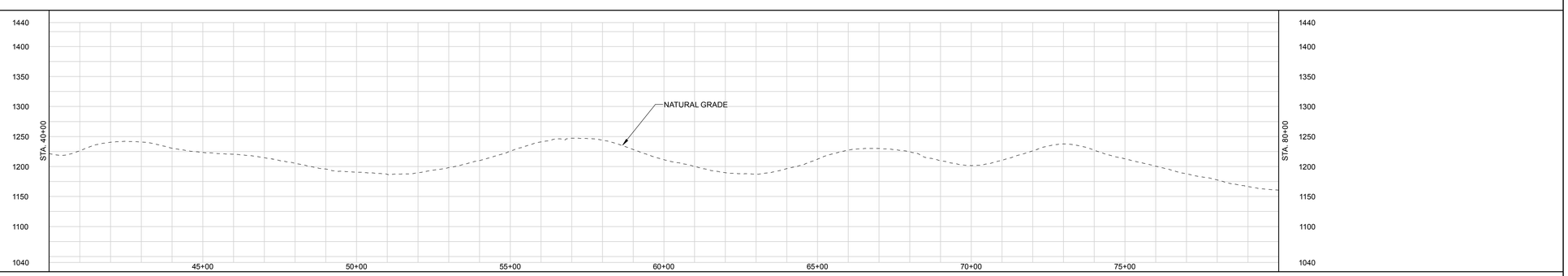
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY: / TITLE	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 0.76 to M.P. 1.52
STA. 40+00 to STA. 80+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | KENS-A-1002 | REV. A

P:\265_UPSTREAM_PIPELINE\299K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 002.d1266.pdf PLOT TIME: 2015-04-21 14:28:55

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

80+00	OH-CO-012.0000-SC	81+02	OH-CO-013.0000-SC	87+18	OH-CO-018.0000-SC	87+89	OH-CO-019.0000-SC	89+46	OH-CO-016.0000-SC	96+29	OH-CO-022.0000-RD	96+98	OH-CO-025.0000-SC	109+83	OH-CO-029.0000-RD	110+44	OH-CO-038.0000-SC	111+00	OH-CO-039.0000-SC	125+70	OH-CO-041.0000-SC	130+00
	102 FT. 6.2 RODS		616 FT. 37.3 RODS		71 FT. 4.3 RODS		57 FT. 3.5 RODS		783 FT. 47.5 RODS		69 FT. 4.2 RODS		1285 FT. 77.9 RODS		61 FT. 3.7 RODS		56 FT. 3.4 RODS		1470 FT. 89.1 RODS		430 FT. 26.1 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 85+26 GAS PL
STA. 85+32 GAS PL
STA. 85+38 GAS PL

STA. 86+28 PI – 02°01'32" LT
STA. 86+28 TOWER, 84 FT. RIGHT

STA. 87+61 PI – 33°47'11" RT

STA. 96+59 STATE ROUTE 30 (SCALED) CENTERLINE
STA. 97+36 TOP BANK
STA. 97+45 DITCH, DEPTH 0.3 FT. CENTERLINE
STA. 97+54 TOP BANK

STA. 99+21 PI – 18°50'26" RT

STA. 108+45 PI – 00°32'02" RT
STA. 109+00 POWERLINE, CLEARANCE 20 FT.
STA. 109+92 DITCH, DEPTH 0 FT. CENTERLINE
STA. 110+04 ROAD EDGE
STA. 110+13 GRAVEL CAMPBELL RD
STA. 110+22 ROAD EDGE
STA. 110+38 DITCH, DEPTH 0 FT. CENTERLINE
STA. 111+38 PI – 51°00'44" LT
STA. 111+92 GAS PL

STA. 115+96 OTHER WELL, 110 FT. RIGHT
STA. 116+41 DRIVEWAY EDGE
STA. 116+48 DRIVEWAY CENTERLINE
STA. 116+54 DRIVEWAY EDGE

STA. 121+61 PI – 11°51'38" LT

STA. 125+81 FENCE

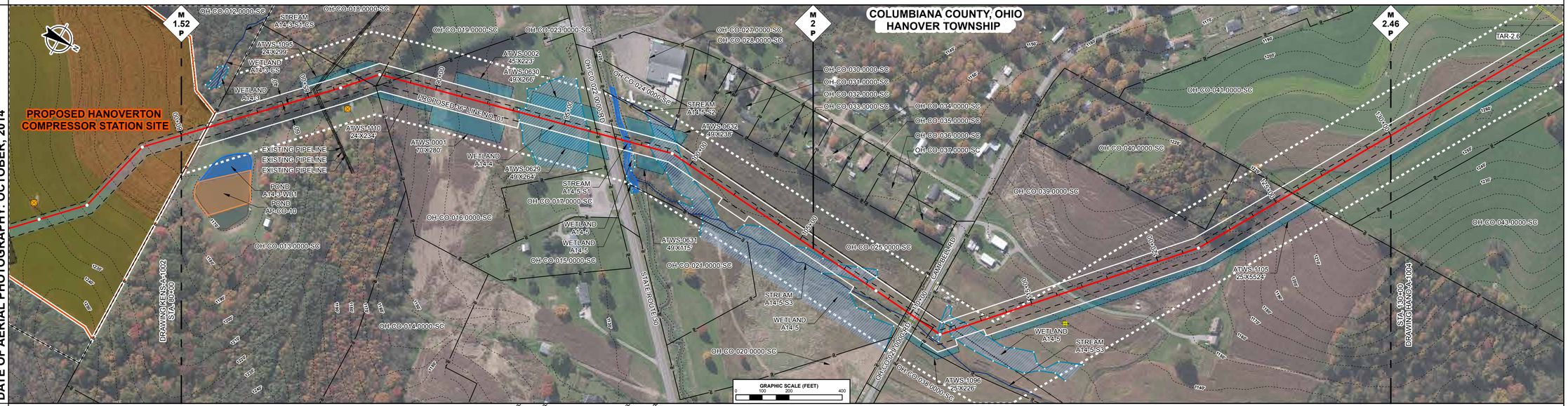
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 93+21 WETLAND A14-4 ENTER
STA. 94+24 WETLAND A14-4 ENTER
STA. 96+04 WETLAND A14-4 EXIT
STA. 96+15 WETLAND A14-4 EXIT
STA. 97+06 STREAM SANDY CREEK ENTER
STA. 97+62 WETLAND A14-5 ENTER
STA. 97+66 STREAM SANDY CREEK EXIT
STA. 97+75 WETLAND A14-5 EXIT
STA. 98+10 WETLAND A14-5 ENTER
STA. 100+32 WETLAND A14-5 EXIT
STA. 104+04 WETLAND A14-5 EXIT
STA. 104+15 WETLAND A14-5 EXIT
STA. 104+91 WETLAND A14-5 ENTER
STA. 108+16 WETLAND A14-5 EXIT
STA. 111+12 WETLAND A14-5 ENTER
STA. 112+79 WETLAND A14-5 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

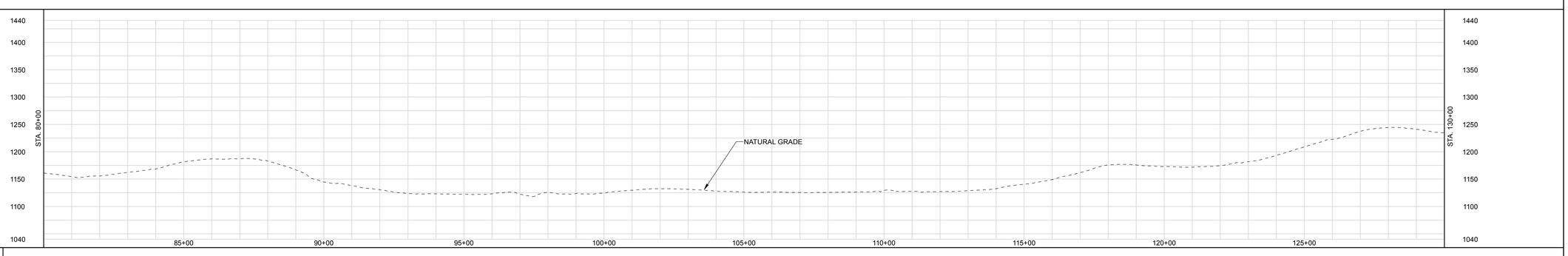
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
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		35-100%	100 FT
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SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

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LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

P:\265_UPSTREAM_PIPELINE\2596K GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 003.s1f 266.tif PLOT TIME: 2015-04-21 14:31:28

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

	BID		CONSTRUCTION	
	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 1.52 to M.P. 2.46
STA. 80+00 to STA. 130+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1003	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

130+00	OH-CO-041.0000-SC: 1333 FT. / 80.8 RODS	143+33	OH-CO-043.0000-SC: 344 FT. / 20.8 RODS	146+77	OH-CO-046.0000-SC: 1257 FT. / 76.2 RODS	159+34	OH-CO-047.0000-SC: 929 FT. / 56.3 RODS	168+63	OH-CO-049.0000-RD: 79 FT. / 4.8 RODS	169+42	OH-CO-051.0000-SC: 653 FT. / 39.6 RODS	175+95	OH-CO-052.0000-SC: 405 FT. / 24.5 RODS	180+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 137+78 FENCE
STA. 137+88 DIRT NONE CENTERLINE
STA. 139+81 OIL WELL, 164 FT. RIGHT
STA. 139+88 PI – 02°29'43" LT
STA. 142+51 DIRT, NONE CENTERLINE
STA. 146+63 DIRT, NONE CENTERLINE
STA. 147+27 FENCE
STA. 150+89 FENCE
STA. 157+76 PI – 07°48'12" LT
STA. 161+63 GAS PL
STA. 168+87 TOP BANK
STA. 168+98 TOE BANK
STA. 169+02 ROAD EDGE
STA. 169+08 PAVED CAMPBELL RD CENTERLINE
STA. 169+25 ROAD EDGE
STA. 169+27 TOE BANK
STA. 169+37 TOP BANK
STA. 177+90 WATER WELL, 126 FT. LEFT
STA. 178+40 PI – 23°35'16" RT
STA. 179+03 VALVE FENCE
STA. 179+04 M.L.V.
STA. 179+53 VALVE FENCE

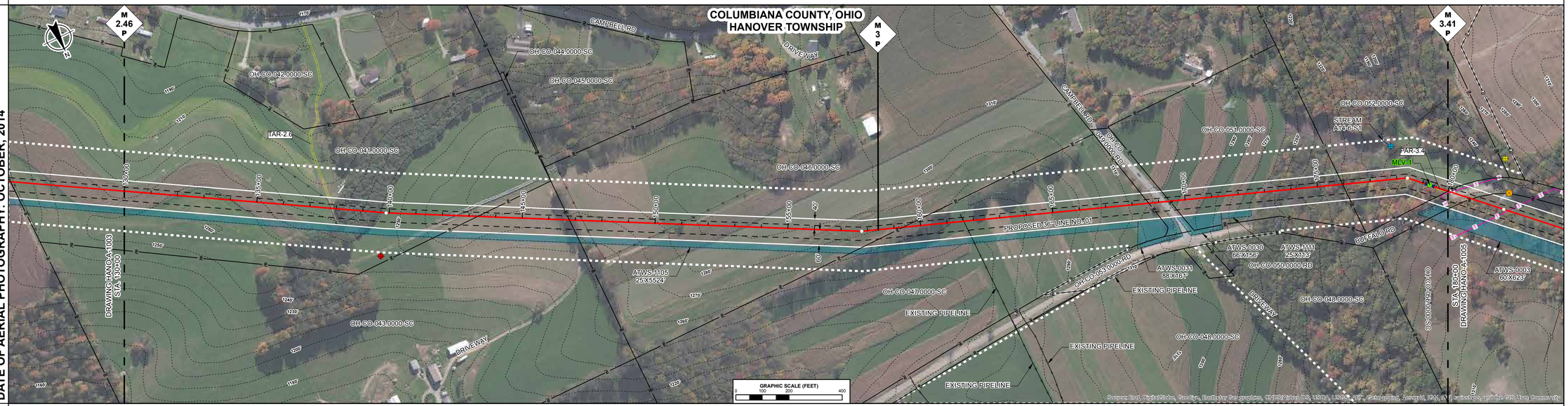
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

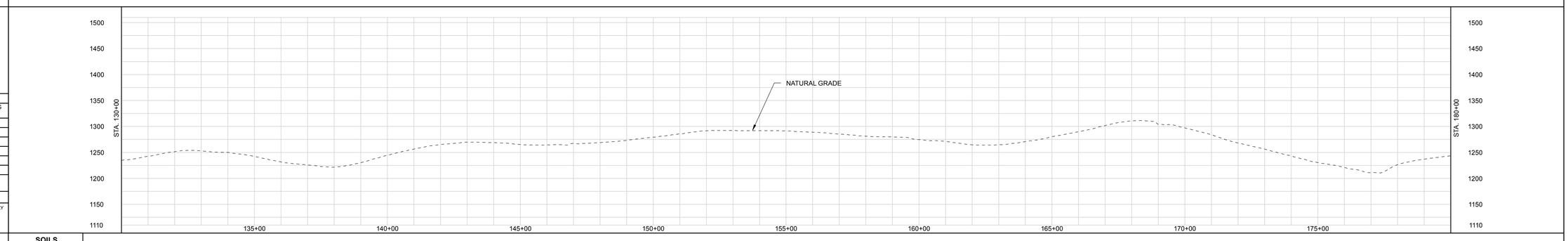
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 2.46 to M.P. 3.41
STA. 130+00 to STA. 180+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1004 | REV. A

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRouter\NEXUS PROPOSED MAINLINE PIPELINE 004.v4\266.pdf PLOT TIME: 2015-04-21 14:36:39

DWG. #

RIGHT-OF-WAY

TRACT NUMBERS

| | | |

RIGHT-OF-WAY

TRACT NUMBERS

220+00	OH-CO-066.0000-SC 1150 FT. 69.7 RODS	241+50	OH-CO-067.0000-SC 656 FT. 39.8 RODS	248+06	OH-CO-068.0000-SC 601 FT. 36.4 RODS	254+07	OH-CO-071.0000-RD 50 FT. 3.0 RODS	254+57	OH-CO-073.0000-SC 472 FT. 28.6 RODS	259+29	OH-CO-074.0000-RD 93 FT. 5.6 RODS	260+22	OH-CO-076.0000-SC 111 FT. 6.7 RODS	261+33	OH-CO-077.0000-SC 356 FT. 21.6 RODS	264+89	OH-CO-078.0000-SC 810 FT. 49.1 RODS	272+99	OH-CO-079.0000-SC 701 FT. 42.5 RODS	280+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 232+64 PI – 18°50'48" LT
STA. 233+33 OTHER WELL, 106 FT, LEFT
STA. 236+58 DRIVEWAY
STA. 236+63 TEMP. WORK CENTERLINE
STA. 236+68 DRIVEWAY
STA. 238+65 DRIVEWAY
STA. 238+71 DRIVEWAY CENTERLINE
STA. 239+77 DRIVEWAY
STA. 245+36 PI – 05°29'09" LT
STA. 247+50 OTHER WELL, 173 FT, RIGHT
STA. 251+94 DRIVEWAY
STA. 252+00 DRIVEWAY
STA. 252+05 DRIVEWAY
STA. 252+13 FENCE
STA. 252+29 TOE BANK
STA. 252+40 TOP BANK
STA. 252+45 CREEK DEPTH 1.5 FT. CENTERLINE
STA. 252+69 TOP BANK
STA. 253+31 TOP BANK
STA. 253+40 CREEK DEPTH 0.5 FT. CENTERLINE
STA. 253+46 TOP BANK
STA. 254+05 AGL GROUND TELEPHONE
STA. 254+08 FENCE
STA. 254+14 POWERLINE, CLEARANCE 21 FT.
STA. 254+14 ROAD EDGE
STA. 254+24 PAVED, CR 812/WEAVER RD CENTERLINE
STA. 254+34 ROAD EDGE
STA. 259+29 POWERLINE, CLEARANCE 27 FT.
STA. 259+28 TOE BANK
STA. 259+53 TOP BANK
STA. 259+67 ROAD EDGE
STA. 259+79 PAVED, CR 812/WEAVER RD CENTERLINE
STA. 259+91 ROAD EDGE
STA. 259+98 TOE BANK
STA. 260+19 TOP BANK
STA. 265+75 PI – 23°25'08" LT
STA. 267+47 FENCE
STA. 268+38 FENCE
STA. 269+21 FENCE
STA. 270+63 FENCE
STA. 272+81 PI – 26°17'44" RT

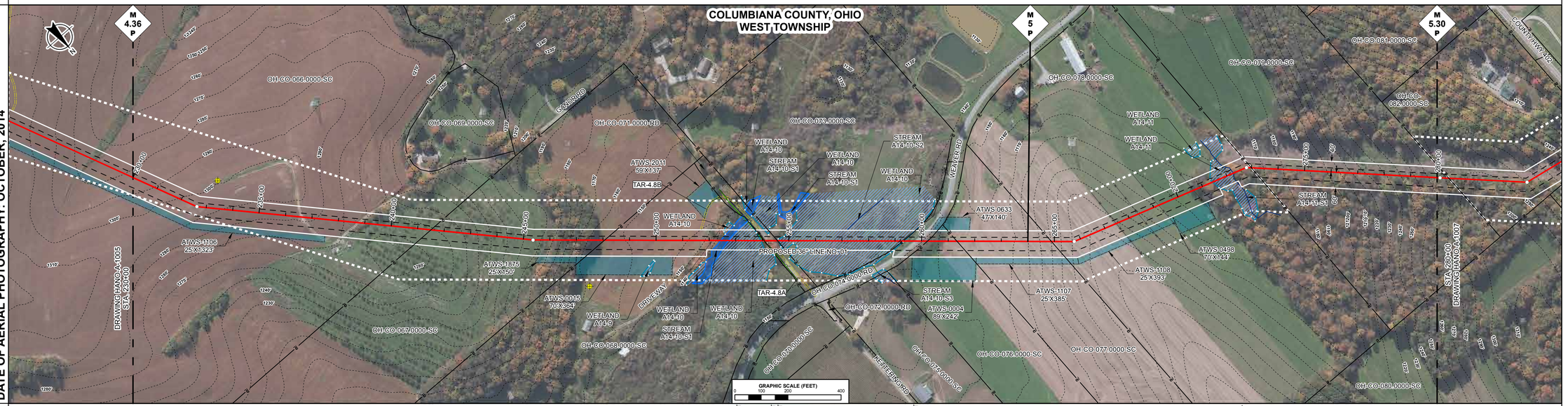
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
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- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
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- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 249+47 WETLAND A14-9 ENTER
STA. 249+96 WETLAND A14-9 EXIT
STA. 252+12 STREAM CONSER RUN A14-10-S1 ENTER
STA. 252+48 WETLAND A14-10 ENTER
STA. 252+55 WETLAND A14-10 EXIT
STA. 252+78 WETLAND A14-10 EXIT
STA. 253+06 STREAM CONSER RUN A14-10-S1 EXIT
STA. 254+08 WETLAND A14-10 ENTER
STA. 254+09 WETLAND A14-10 EXIT
STA. 254+27 WETLAND A14-10 EXIT
STA. 254+60 WETLAND A14-10 ENTER
STA. 259+77 WETLAND A14-10 EXIT
STA. 271+36 WETLAND A14-11 ENTER
STA. 272+27 CENTERLINE OF STREAM A14-11-S1 TRIB TO CONSER RUN
STA. 272+27 WETLAND A14-11 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

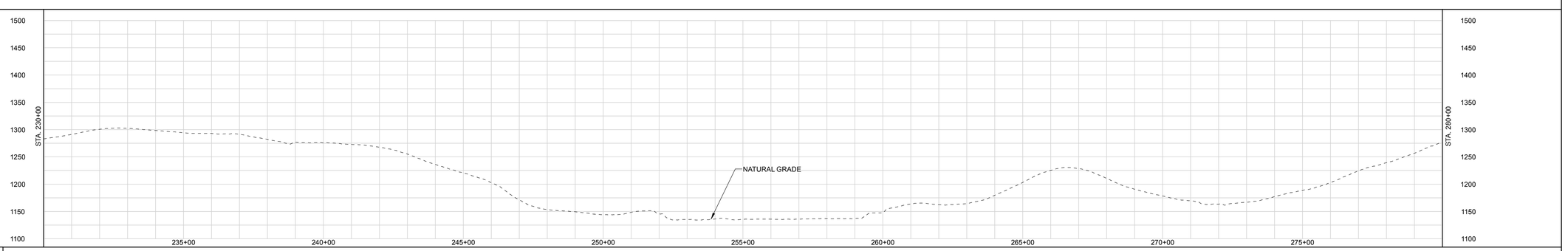
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

REV	DSN	CK	DESCRIPTION	DWG. NO.	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
A			ISSUED FOR FERC	REFERENCE DRAWINGS		REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 4.36 to M.P. 5.30
STA. 230+00 to STA. 280+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1006 | REV. A

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 005.rt7266.rt# PLOT TIME: 2015-04-21 14:48:01

DRAWING #

RIGHT-OF-WAY

TRACT NUMBERS

OH-CO-079.0000-SC	OH-CO-082.0000-SC	OH-CO-083.0000-SC	OH-CO-085.0000-RD	OH-CO-087.0000-SC	OH-CO-089.0000-SC	OH-CO-091.0000-SC	OH-CO-093.0000-SC	OH-CO-095.0000-SC	OH-CO-099.0000-RD	OH-CO-104.0000-SC	OH-CO-102.0000-SC
280+00	280+44	286+81	286+89	287+68	295+39	304+30	310+21	320+04	328+32	328+92	329+03	330+00
44 FT.	637 FT.	6 FT.	80 FT.	771 FT.	891 FT.	591 FT.	983 FT.	828 FT.	60 FT.	11 FT.	97 FT.	
2.7 RODS	38.6 RODS	0.4 RODS	4.8 RODS	46.7 RODS	54.0 RODS	35.8 RODS	59.6 RODS	50.2 RODS	3.6 RODS	0.7 RODS	5.9 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 280+11 PI – 00°05'27" LT

STA. 283+39 PI – 34°06'54" LT

STA. 286+06 PI – 31°41'17" RT

STA. 287+23 COUNTY HWY 402 (SCALED) CENTERLINE

STA. 299+42 PI – 06°30'47" LT

STA. 301+52 WATER WELL, 274 FT. RIGHT
STA. 301+52 WATER WELL, 277 FT. RIGHT
STA. 301+85 WATER WELL, 273 FT. RIGHT
STA. 301+85 WATER WELL, 277 FT. RIGHT

STA. 304+24 FENCE

STA. 306+46 PI – 46°41'36" RT

STA. 308+52 PI – 46°50'56" LT

STA. 309+19 TOWER, 64 FT. LEFT

STA. 310+00 FENCE

STA. 314+72 GAS WELL, 149 FT. RIGHT

STA. 316+09 TOWER, 65 FT. LEFT

STA. 316+99 PI – 02°40'18" RT

STA. 320+10 ROAD EDGE
STA. 320+17 DIRT, NONE CENTERLINE
STA. 320+60 ROAD EDGE
STA. 321+19 WELL, 89 FT. RIGHT

STA. 323+35 PI – 00°08'34" RT

STA. 325+26 TOWER, 65 FT. LEFT

STA. 326+35 POWERLINE, CLEARANCE 30 FT.
STA. 328+52 ROAD EDGE
STA. 328+60 ROAD, GREY RD CENTERLINE
STA. 328+67 ROAD EDGE
STA. 328+75 TOP OF BANK
STA. 329+06 FENCE
STA. 329+43 BUILDING, 66 FT. RIGHT
STA. 329+85 WATER WELL, 41 FT. RIGHT
STA. 329+87 WATER WELL, 44 FT. RIGHT
STA. 329+88 WATER WELL, 46 FT. RIGHT

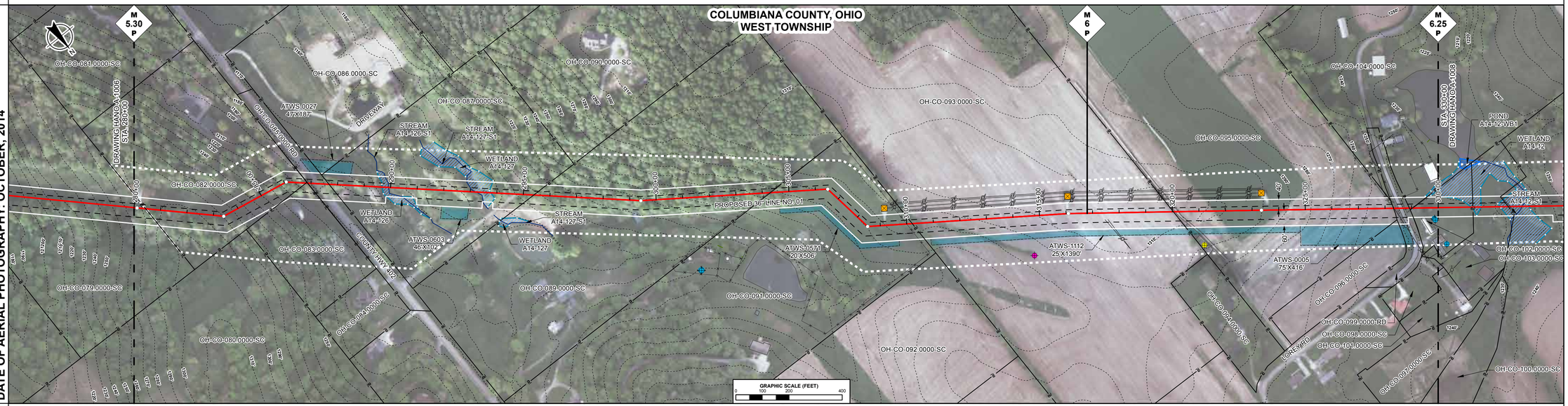
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
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- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
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- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 289+52 WETLAND A14-126 ENTER
STA. 289+92 CENTERLINE OF STREAM A14-126-S1 TRIB TO CONSER RUN
STA. 290+66 WETLAND A14-126 EXIT

STA. 292+65 WETLAND A14-127 ENTER
STA. 293+22 CENTERLINE OF STREAM A14-127-S1 TRIB TO CONSER RUN
STA. 293+44 WETLAND A14-127 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

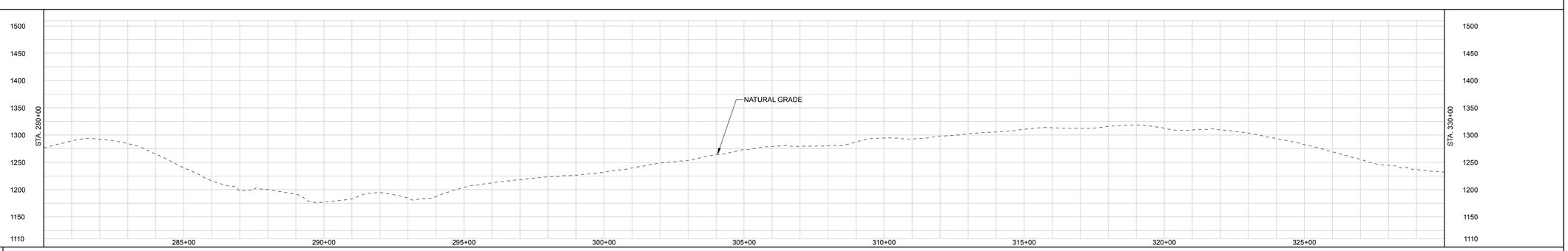
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
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		35-100%	100 FT
		>100%	50 FT

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SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 5.30 to M.P. 6.25
STA. 280+00 to STA. 330+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1007	REV. A

P:\285_UPSTREAM_PIPELINE\290K GIS\ToBeSaan NEXUS PROPOSED MAINLINE PIPELINE 007 of 266.pdf PLOT TIME: 2015-04-21 14:54:46

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

OH-CO-102.0000-SC	OH-CO-103.0000-SC	OH-CO-105.0000-SC	OH-CO-106.0000-RD	OH-CO-107.0000-SC	OH-CO-109.0000-SC	OH-CO-110.0000-SC	OH-CO-113.0000-SC	OH-CO-114.0000-RD	OH-CO-119.0000-SC	OH-CO-120.0000-SC	OH-CO-121.0000-SC
330+00	331+30	332+64	345+66	347+00	355+77	357+68	359+11	360+97	361+56	371+69	374+94	380+00
130 FT.	134 FT.	1302 FT.	134 FT.	877 FT.	191 FT.	143 FT.	186 FT.	59 FT.	1013 FT.	325 FT.	506 FT.	
7.9 RODS	8.1 RODS	78.9 RODS	8.1 RODS	53.2 RODS	11.6 RODS	8.7 RODS	11.3 RODS	3.6 RODS	61.4 RODS	19.7 RODS	30.7 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 329+31 WATER WELL, 138 FT. RIGHT

STA. 332+15 BUILDING, 33 FT. RIGHT

STA. 333+13 TOP BANK
STA. 333+18 STREAM, DEPTH 1.1 FT. CENTERLINE
STA. 333+25 TOP BANK

STA. 338+05 PI – 00°05'56" RT

STA. 344+73 PI – 00°08'10" LT

STA. 345+83 POWERLINE, CLEARANCE 30 FT.
STA. 346+12 ROAD EDGE
STA. 346+38 CENTERLINE OF US 172
CENTERLINE
STA. 346+64 ROAD EDGE
STA. 346+90 POWERLINE, CLEARANCE 25 FT.
STA. 347+23 DRIVEWAY EDGE
STA. 347+32 DRIVEWAY EDGE
STA. 348+30 WELL, 148 FT. RIGHT

STA. 350+94 PI – 00°03'15" RT

STA. 356+13 TOP BANK
STA. 356+17 STREAM DEPTH 0 FT. CENTERLINE

STA. 358+17 WATER WELL, 108 FT. LEFT
STA. 358+61 EDGE CONC

STA. 360+02 PI – 00°02'20" RT
STA. 360+03 TOWER, 67 FT. LEFT

STA. 360+56 PI – 37°24'07" LT
STA. 361+00 TOP BANK
STA. 361+25 TOE BANK
STA. 361+28 ROAD EDGE
STA. 361+36 ROAD EDGE
403/12th ST CENTERLINE
STA. 361+44 ROAD EDGE
STA. 361+52 CENTERLINE, CLEARANCE 42 FT.
STA. 361+83 POWERLINE, CLEARANCE 42 FT.

STA. 369+93 PI – 37°24'07" RT

STA. 370+13 TOWER, 87 FT. RIGHT

STA. 370+13 PI – 31°44'03" LT

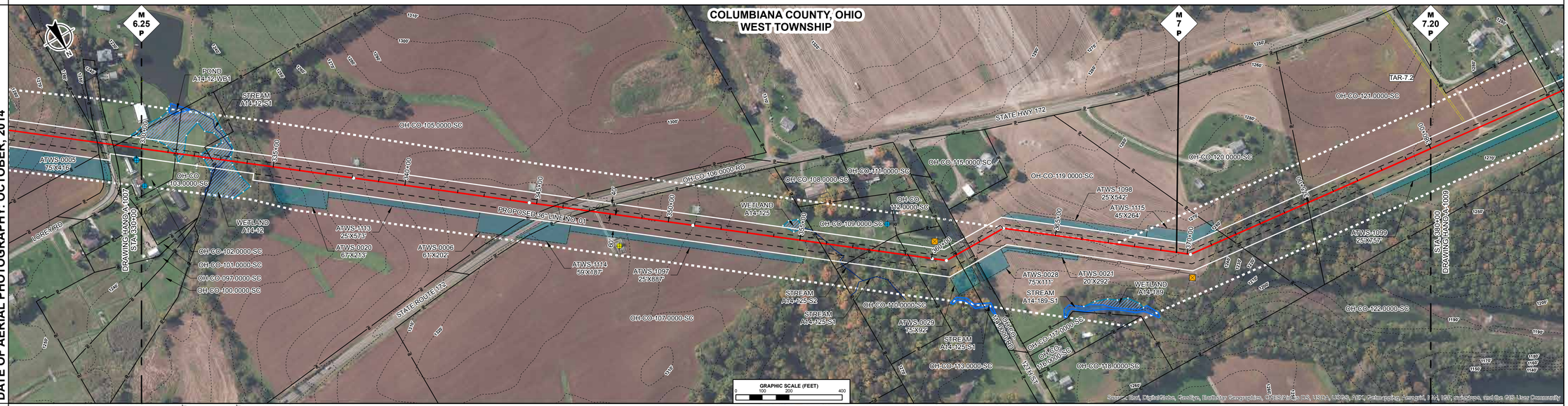
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
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- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS — WATER — OIL — OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 330+14 WETLAND A14-12 ENTER

STA. 331+61 WETLAND A14-12 EXIT
STA. 332+25 WETLAND A14-12 ENTER

STA. 333+16 CENTERLINE OF STREAM A14-12-S1 TRIB TO CONESTOGA RIVER
STA. 333+67 WETLAND A14-12 EXIT

STA. 354+42 WETLAND A14-125 ENTER
STA. 354+93 WETLAND A14-125 EXIT

STA. 356+11 CENTERLINE OF STREAM A14-125-S2 TRIB TO MAHONING RIVER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

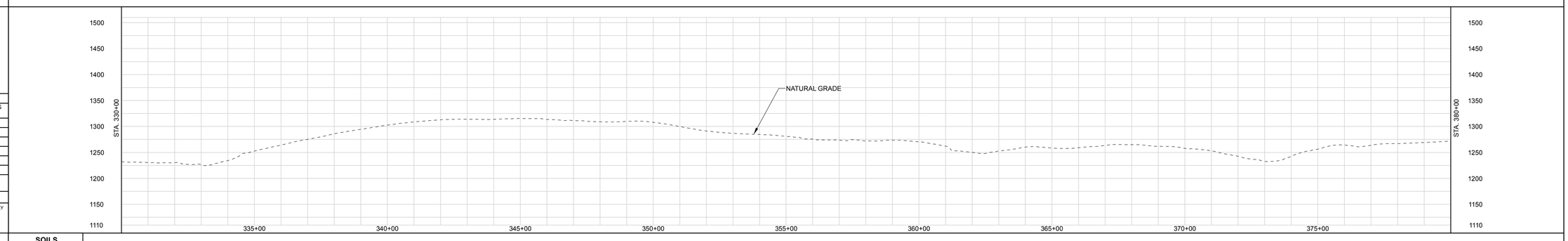
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

REV	DSN	CK	DESCRIPTION	DWG. NO.
A			ISSUED FOR FERC	

REVISIONS — REFERENCE DRAWINGS

ITEM NO.	DESCRIPTION	LN. FT.

MATERIALS

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 6.25 to M.P. 7.20
STA. 330+00 to STA. 380+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1008	REV. A

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 008.mxd 266.pdf PLOT TIME: 2015-04-21 14:57:03

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

380+00	OH-CO-121.0000-SC	384+86	OH-CO-128.0000-SC	385+37	OH-CO-124.0000-SC	388+89	OH-CO-125.0000-SC	392+87	OH-CO-126.0000-SC	394+34	OH-CO-127.0000-SC	397+40	OH-CO-129.0000-SC	405+79	OH-CO-130.0000-SC	406+40	OH-CO-134.0000-SC	413+23	OH-CO-136.0000-RD	413+55	OH-CO-137.0000-SC	413+87	OH-CO-138.0000-SC	427+95	OH-CO-139.0000-SC	430+00
	486 FT. 29.5 RODS		51 FT. 3.1 RODS		352 FT. 21.3 RODS		398 FT. 24.1 RODS		147 FT. 8.9 RODS		306 FT. 18.5 RODS		839 FT. 50.8 RODS		61 FT. 3.7 RODS		683 FT. 41.4 RODS		32 FT. 1.9 RODS		32 FT. 1.9 RODS		1408 FT. 85.3 RODS		205 FT. 12.4 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 387+02 PI – 22°42'41" LT

STA. 393+25 PI – 23°55'37" RT

STA. 402+91 PI – 29°39'32" RT

STA. 406+01 WATER EDGE

STA. 410+04 PI – 17°25'28" LT

STA. 411+77 TRAIL (LIDAR) EDGE
STA. 411+92 TRAIL (LIDAR) EDGE
STA. 413+03 POWERLINE
STA. 413+46 ROAD (LIDAR) EDGE
STA. 413+54 KNOX SCHOOL RD (SCALED) CENTERLINE
STA. 413+67 ROAD (LIDAR) EDGE

STA. 428+04 PI – 01°08'29" RT

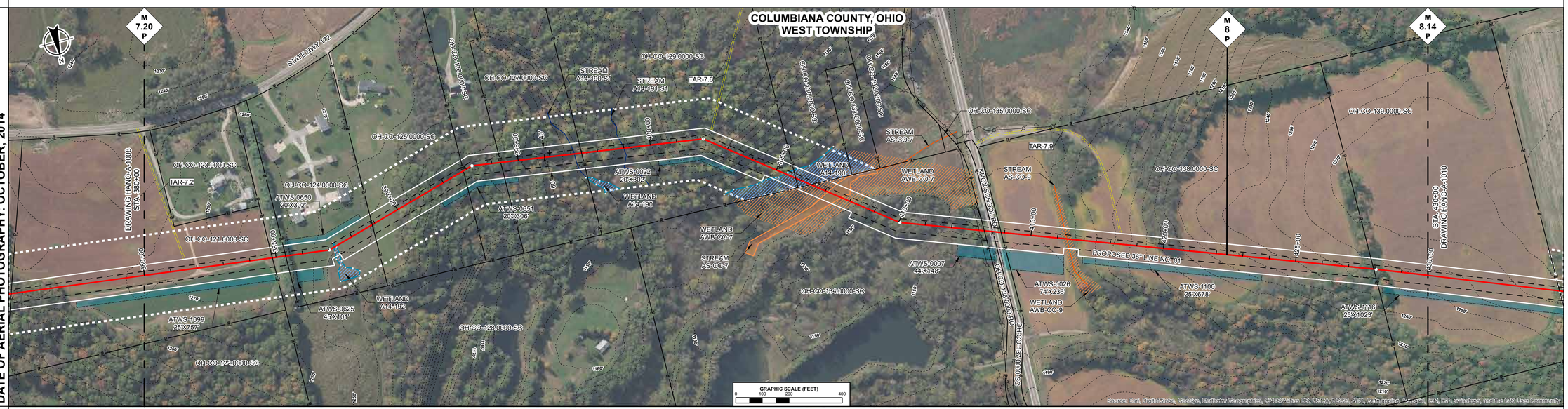
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 387+11 WETLAND A14-192 ENTER
STA. 387+31 WETLAND A14-192 EXIT

STA. 397+13 CENTERLINE OF STREAM A14-S1 TRIB TO MAHONING RIVER

STA. 398+66 CENTERLINE OF STREAM A14-S1 TRIB TO MAHONING RIVER

STA. 404+97 WETLAND A14-190 ENTER
STA. 405+93 WETLAND AWB-CO-7 ENTER

STA. 406+94 STREAM TRIB TO MAHONING RIVER AS-CO-7 ENTER
STA. 406+94 WETLAND A14-190 EXIT
STA. 407+39 WETLAND AWB-CO-7 EXIT
STA. 407+39 WETLAND AWB-CO-7 ENTER
STA. 407+90 STREAM TRIB TO MAHONING RIVER AS-CO-7 EXIT
STA. 408+54 WETLAND AWB-CO-7 EXIT

STA. 416+05 WETLAND AWB-CO-9 ENTER
STA. 416+35 CENTERLINE OF STREAM AS-CO-9 TRIB TO MAHONING RIVER
STA. 416+69 WETLAND AWB-CO-9 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

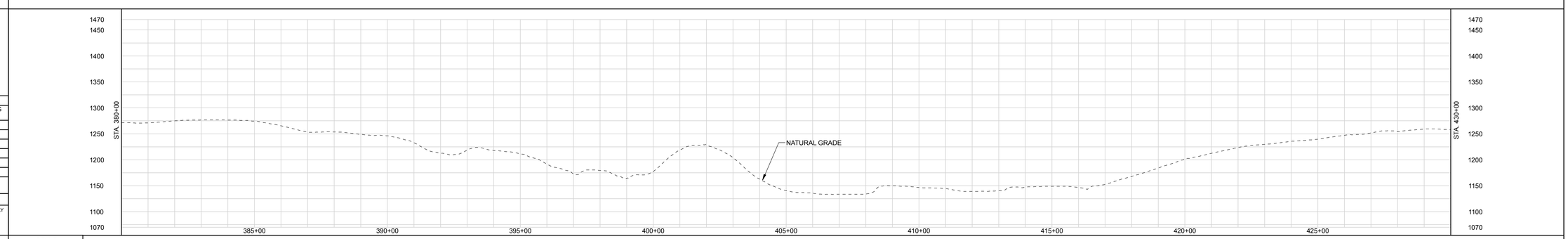
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\265_UPSTREAM_PIPELINE\265K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 609.of.266.tcd PLOT TIME: 2015-04-21 14:59:20

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:

TITLE

ENGINEERING APPROVALS

	BID		CONSTRUCTION	
	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 7.20 to M.P. 8.14
STA. 380+00 to STA. 430+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1009	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

430+00	OH-CO-139.0000-SC: 499 FT. / 30.2 RODS	434+99	OH-CO-141.0000-SC: 639 FT. / 38.7 RODS	441+38	OH-CO-140.0000-SC: 1348 FT. / 81.7 RODS	454+86	OH-CO-142.0000-SC: 1036 FT. / 62.8 RODS	465+22	OH-CO-143.0000-SC: 1425 FT. / 86.4 RODS	479+47	OH-CO-144.0000-SC: 53 FT. / 3.2 RODS	480+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 440+00 PI – 68°57'26" RT

STA. 446+97 PI – 00°17'14" LT

STA. 453+26 PI – 00°08'30" RT

STA. 460+59 PI – 00°09'23" RT

STA. 466+96 PI – 00°11'05" LT

STA. 475+60 PI – 02°32'05" RT

STA. 479+43 TOWER .66 FT. RIGHT
STA. 479+71 POWERLINE, 43 FT. CLEARANCE LT.
STA. 479+91 POWERLINE, CLEARANCE 100 FT.

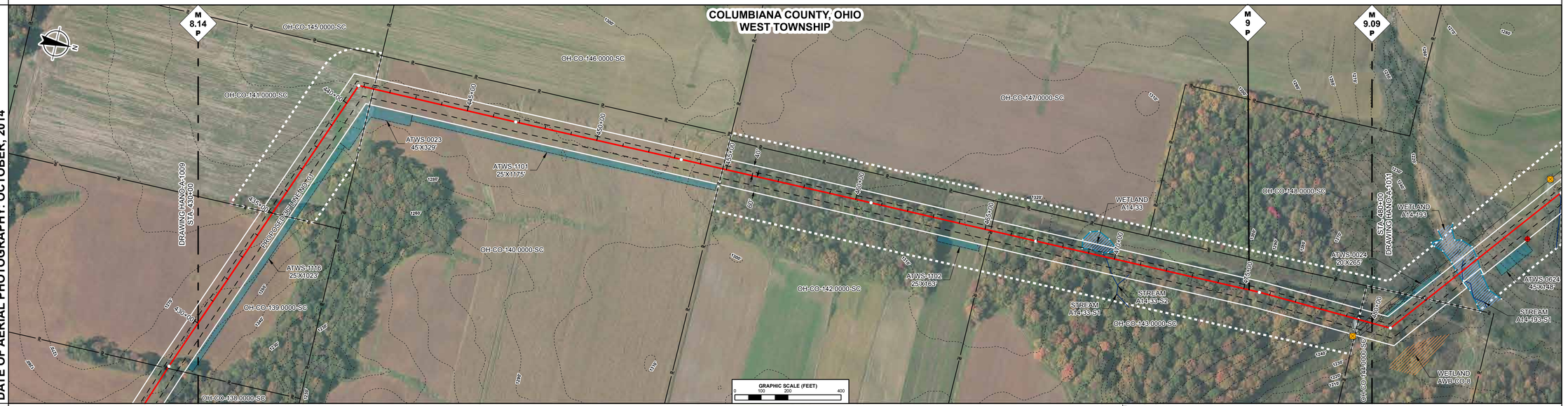
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD — PAR-0.0
- TEMPORARY ACCESS ROAD — TAR-0.0
- PARCEL TRACT NO — OH-CO-011.0000-SC
- PROPERTY LINE
- CONTOUR — 120'
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE — W
- RAILROAD TRACK
- TELEPHONE — T
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 468+68 WETLAND A14-33 ENTER

STA. 469+64 CENTERLINE OF STREAM A14-33-S1 TO MIDDLE BRANCH SANDY CREEK

STA. 470+05 WETLAND A14-33 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

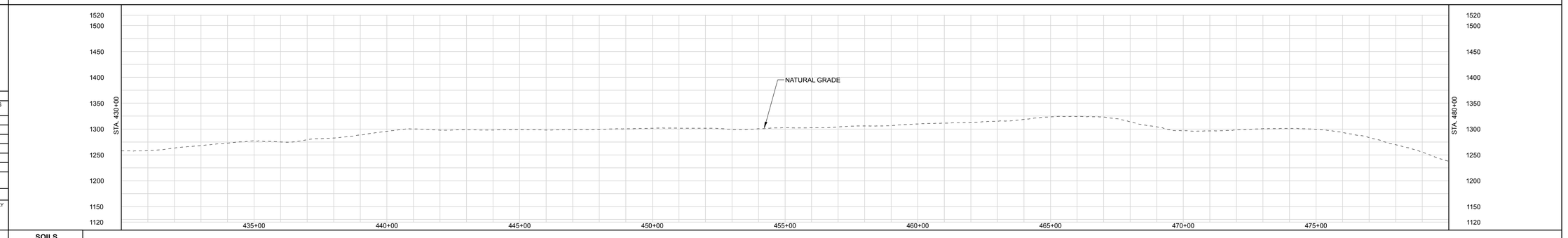
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 8.14 to M.P. 9.09
STA. 430+00 to STA. 480+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1010	REV. A

P:\205_UPSTREAM_PIPELINE\205K OS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 010.vf 266.pdf PLOT TIME: 2015-04-21 15:02:15

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

480+00 — **OH-CO-144.0000-SC** — 248 FT. — 15.0 RODS — 482+48

OH-CO-148.0000-SC — 3448 FT. — 209.0 RODS

516+96 — **OH-CO-150.0000-SC** — 149 FT. — 9.0 RODS — 518+45

OH-CO-153.0000-RD — 97 FT. — 5.9 RODS — 519+42

OH-CO-155.0000-SC — 332 FT. — 20.1 RODS — 522+74

OH-CO-159.0000-SC — 422 FT. — 25.6 RODS — 526+96

OH-CO-162.0000-SC — 304 FT. — 18.4 RODS — 530+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 480+10 POWERLINE, CLEARANCE 40 FT.

STA. 480+71 PI – 53°50'05" LT

STA. 486+84 OIL WELL, 58 FT. RIGHT

STA. 488+92 PI – 00°06'21" RT

STA. 488+92 TOWER, 64 FT. LEFT

STA. 496+46 TOWER, 65 FT. LEFT

STA. 496+48 PI – 00°02'40" RT

STA. 496+59 FENCE

STA. 499+63 FENCE

STA. 511+55 TOWER, 65 FT. LEFT

STA. 511+86 PI – 00°05'05" LT

STA. 516+95 GAS PL

STA. 517+75 PI – 00°00'13" LT

STA. 517+76 TOWER, 65 FT. LEFT

STA. 518+72 DITCH, DEPTH 0 FT. CENTERLINE

STA. 518+77 ROAD EDGE

STA. 518+79 MUNICIPALITY LINE

STA. 518+92 PAVED, MOUNTZ RD CENTERLINE

STA. 519+00 ROAD EDGE

STA. 519+14 CULVERT

STA. 521+56 DRIVEWAY

STA. 521+60 DRIVEWAY CENTERLINE

STA. 521+94 DRIVEWAY

STA. 522+51 DITCH, DEPTH 1.0 FT. CENTERLINE

STA. 522+52 TOP BANK

STA. 524+88 DRIVEWAY

STA. 525+44 DRIVEWAY CENTERLINE

STA. 525+45 PI – 00°04'19" LT

STA. 525+45 TOWER, 65 FT. LEFT

STA. 526+66 BUILDING, 128 FT. LEFT

STA. 528+87 POWERLINE, CLEARANCE 20 FT.

STA. 528+89 POWERLINE, CLEARANCE 20 FT.

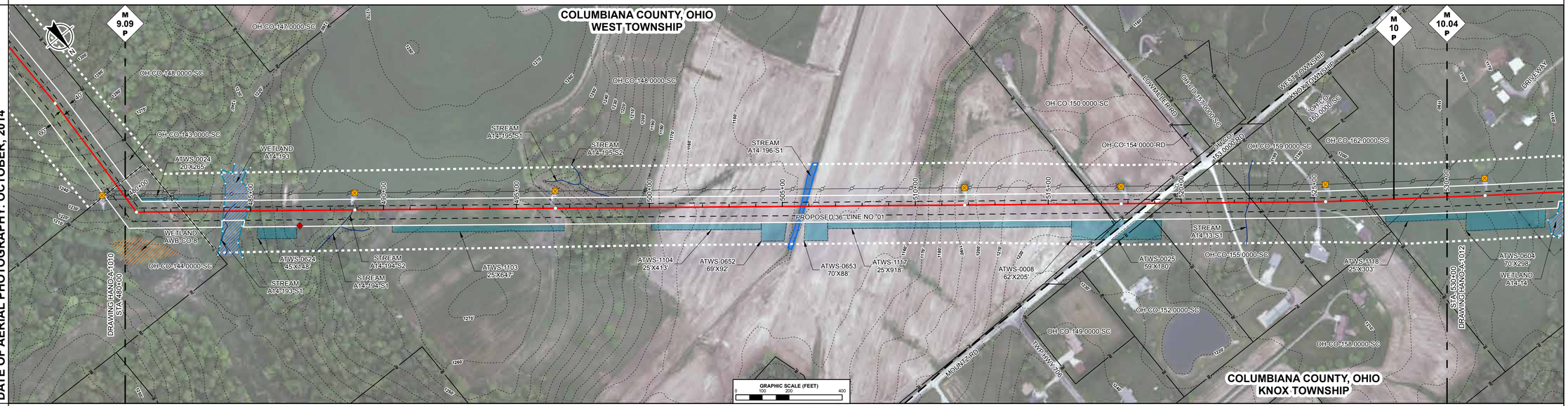
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
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- TEMPORARY ACCESS ROAD (TAR-0.0)
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- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS — WATER — OIL — OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 483+65 CENTERLINE OF STREAM A14-193-S2 TRIB TO MIDDLE BRANCH SANDY CREEK

STA. 484+16 CENTERLINE OF STREAM A14-193-S1 TRIB TO MIDDLE BRANCH SANDY CREEK

STA. 485+01 WETLAND A14-193 EXIT

STA. 488+83 CENTERLINE OF STREAM A14-194-S2 TRIB TO MIDDLE BRANCH SANDY CREEK

STA. 505+52 STREAM TRIB TO MIDDLE BRANCH SANDY CREEK A14-195-S1 ENTER

STA. 505+99 STREAM TRIB TO MIDDLE BRANCH SANDY CREEK A14-195-S1 EXIT

STA. 522+55 CENTERLINE OF STREAM A14-13-S1 TRIB TO MIDDLE BRANCH SANDY CREEK

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

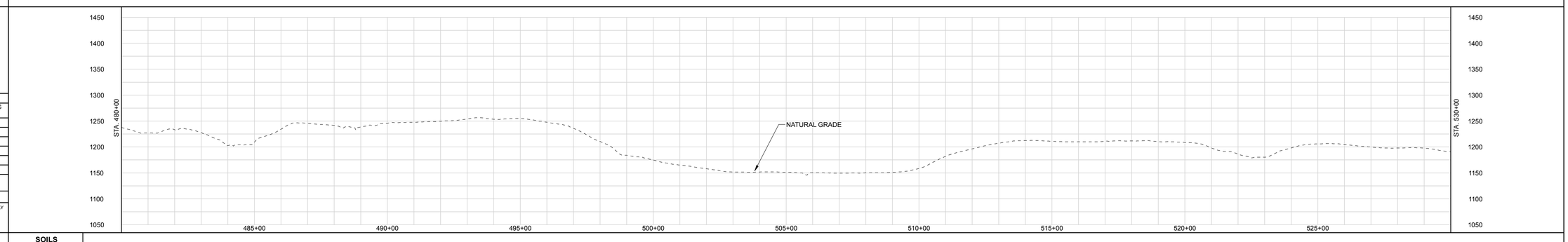
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
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		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY: / TITLE	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 9.09 to M.P. 10.04
STA. 480+00 to STA. 530+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1011 | REV. A

P:\265_UPSTREAM_PIPELINE\299K GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 011 of 266.pdf PLOT TIME: 2015-04-22 09:29:44

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

530+00	OH-CO-162.0000-SC	541+11	OH-CO-161.0000-SC	542+65	OH-CO-164.0000-RD	543+24	OH-CO-165.0000-SC	564+38	OH-CO-166.0000-SC	571+03	OH-CO-167.0000-RR	572+42	OH-CO-168.0000-SC	575+12	OH-CO-169.0000-SC	578+24	OH-CO-170.0000-SC	578+75	OH-CO-171.0000-RD	579+35	OH-CO-173.0000-SC	580+00
	1111 FT. 67.3 RODS		174 FT. 10.5 RODS		39 FT. 2.4 RODS		2114 FT. 128.1 RODS		665 FT. 40.3 RODS		139 FT. 8.4 RODS		270 FT. 16.4 RODS		322 FT. 19.5 RODS		41 FT. 2.5 RODS		60 FT. 3.6 RODS		65 FT. 3.9 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 531+44 PI – 00°29'07" LT
STA. 531+45 TOWER, 65 FT. LEFT
STA. 532+21 FENCE

STA. 535+84 FENCE

STA. 536+91 FENCE

STA. 543+06 BAYARD ST. (CR-60) CENTERLINE
STA. 543+41 PI – 00°08'03" LT

STA. 549+87 GAS WELL, 66 FT. RIGHT

STA. 553+98 PI – 00°05'24" LT

STA. 559+97 PI – 00°05'55" RT

STA. 561+73 PI – 09°06'16" RT

STA. 570+38 PI – 31°58'27" LT
STA. 571+50 DRIVEWAY EDGE
STA. 571+60 DRIVEWAY EDGE
STA. 572+00 RAILROAD TOE
STA. 572+03 RAILROAD TOE
STA. 572+03 RAILROAD CENTERLINE
STA. 572+11 RAILROAD TOE
STA. 572+52 TOP BANK
STA. 573+91 PI – 22°49'38" RT
STA. 574+97 PI – 07°45'22" RT
STA. 575+97 TOWER, 63 FT. LEFT
STA. 575+26 FENCE

STA. 578+41 FENCE
STA. 578+42 TOP BANK
STA. 578+51 TOE BANK
STA. 578+65 DRIVEWAY EDGE
STA. 578+74 DRIVEWAY EDGE
STA. 578+77 POWERLINE,
STA. 578+85 OVERHEAD LINE FT
STA. 578+85 POWERLINE, CLEARANCE UNK FT.
STA. 578+93 POWERLINE, CLEARANCE UNK FT.
STA. 578+97 CULVERT
STA. 579+03 ROAD EDGE
STA. 579+03 ROAD EDGE
HOMEWORTH RD CENTERLINE
STA. 579+25 TOP BANK
STA. 579+28 DITCH, DEPTH 0 FT. CENTERLINE
STA. 579+32 POWERLINE, CLEARANCE UNK FT.

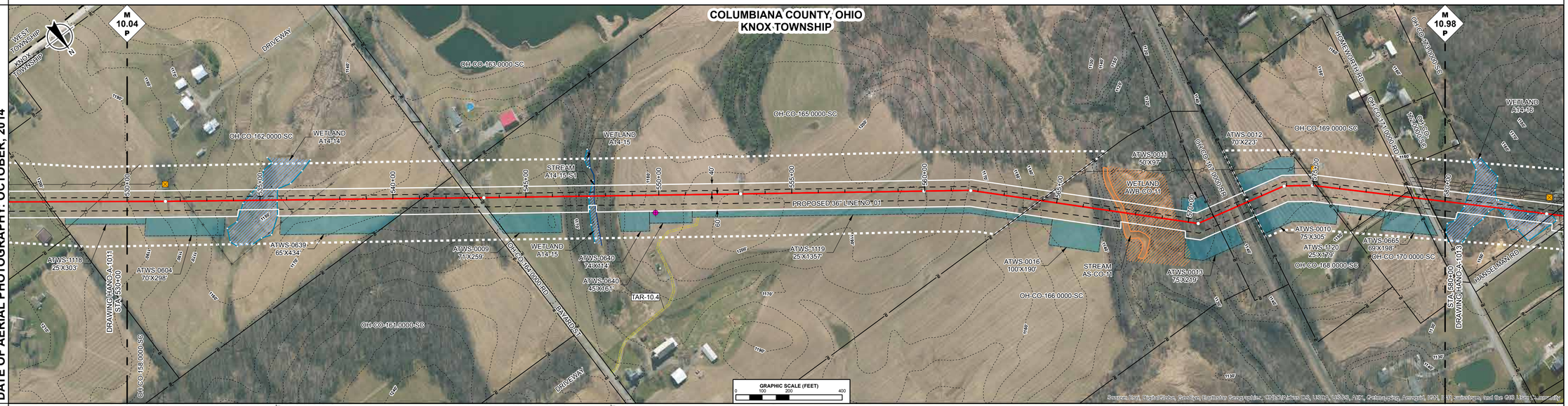
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 534+28 WETLAND A14-14 ENTER

STA. 535+67 WETLAND A14-14 EXIT

STA. 547+37 WETLAND A14-15 ENTER
STA. 547+66 CENTERLINE OF STREAM A14-15-S1 TRIB TO MIDDLE BRANCH SANDY CREEK
STA. 547+69 WETLAND A14-15 EXIT

STA. 567+14 STREAM MIDDLE BRANCH SANDY CREEK AS-CO-11 ENTER
STA. 567+38 WETLAND AWB-CO-11 ENTER
STA. 567+75 STREAM MIDDLE BRANCH SANDY CREEK AS-CO-11 EXIT

STA. 570+28 WETLAND AWB-CO-11 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

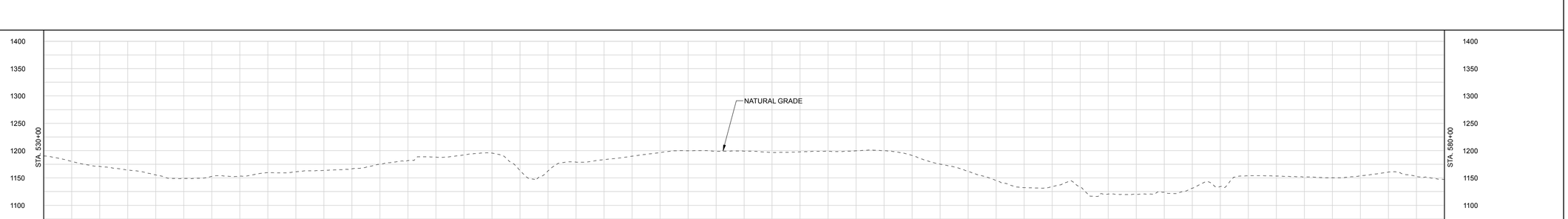
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\265_UPSTREAM_PIPELINE\265K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 017 of 266.pdf - PLOT TIME: 2015-04-22 09:08:42

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 10.04 to M.P. 10.98
STA. 530+00 to STA. 580+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1012 | REV. A

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

580+00	OH-CO-173.0000-SC 405 FT. 24.5 RODS	584+06	OH-CO-174.0000-RD 91 FT. 5.5 RODS	584+97	OH-CO-175.0000-SC 125 FT. 7.6 RODS	586+22	OH-CO-176.0000-SC 152 FT. 9.2 RODS	587+74	OH-CO-177.0000-SC 58 FT. 3.5 RODS	588+32	OH-CO-179.0000-SC 1443 FT. 87.5 RODS

602+75	OH-CO-182.0000-SC 334 FT. 20.2 RODS	605+09	OH-CO-183.0000-SC 592 FT. 35.9 RODS	612+01	OH-CO-184.0000-SC 920 FT. 55.8 RODS	621+21	OH-CO-185.0000-SC 879 FT. 53.3 RODS	630+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 583+55 POWERLINE, CLEARANCE UNK FT.
STA. 583+84 PI – 00°01'30" RT
STA. 583+97 TOWER, 63 FT. LEFT
STA. 584+32 POWERLINE, CLEARANCE UNK FT.
STA. 584+60 DITCH, DEPTH 0 FT. CENTERLINE
STA. 584+72 TOP BANK
STA. 584+72 ROAD EDGE PAVED.
HANSELMAN RD
STA. 584+85 PAVED.
STA. 584+97 ROAD EDGE
STA. 585+01 TOP BANK
STA. 585+07 DITCH, DEPTH 0 FT. CENTERLINE
STA. 585+21 TOP BANK
STA. 589+28 POWERLINE
STA. 589+29 FENCE

STA. 591+53 FENCE
STA. 592+02 PI – 00°01'43" RT
STA. 592+05 TOWER, 63 FT. LEFT

STA. 593+79 WATER WELL, 60 FT LEFT
STA. 594+11 PI – 20°13'33" LT
STA. 594+23 FENCE
STA. 594+88 ROAD EDGE
STA. 595+16 FT. CENTERLINE, NONE
STA. 595+16 POWERLINE, CLEARANCE 30 FT.
STA. 595+40 ROAD EDGE
STA. 595+40 POWERLINE, CLEARANCE 100 FT.
STA. 596+47 TOP BANK
STA. 597+07 PI – 24°34'42" RT
STA. 597+98 DITCH, DEPTH 0 FT. CENTERLINE
STA. 598+08 TOP BANK

STA. 600+93 TOWER, 125 FT. RIGHT

STA. 603+80 PI – 12°27'47" RT

STA. 605+48 PI – 30°11'52" RT
STA. 606+41 TOP BANK
STA. 606+47 DITCH, DEPTH 0 FT. CENTERLINE
STA. 606+47 POWERLINE, CLEARANCE 30 FT.
STA. 607+76 POWERLINE, CLEARANCE 100 FT.
STA. 608+80 ROAD EDGE
STA. 608+81 POWERLINE, CLEARANCE 30 FT.
STA. 608+81 PI – 36°41'19" LT

STA. 610+51 TOWER, 64 FT. LEFT

STA. 613+00 GAS WELL, 89 FT. RIGHT
STA. 613+56 GAS WELL, 100 FT. RIGHT

STA. 618+48 TOWER, 65 FT. LEFT
STA. 618+48 PI – 00°03'24" RT

STA. 624+93 PI – 00°07'05" LT
STA. 624+93 TOWER, 65 FT. LEFT

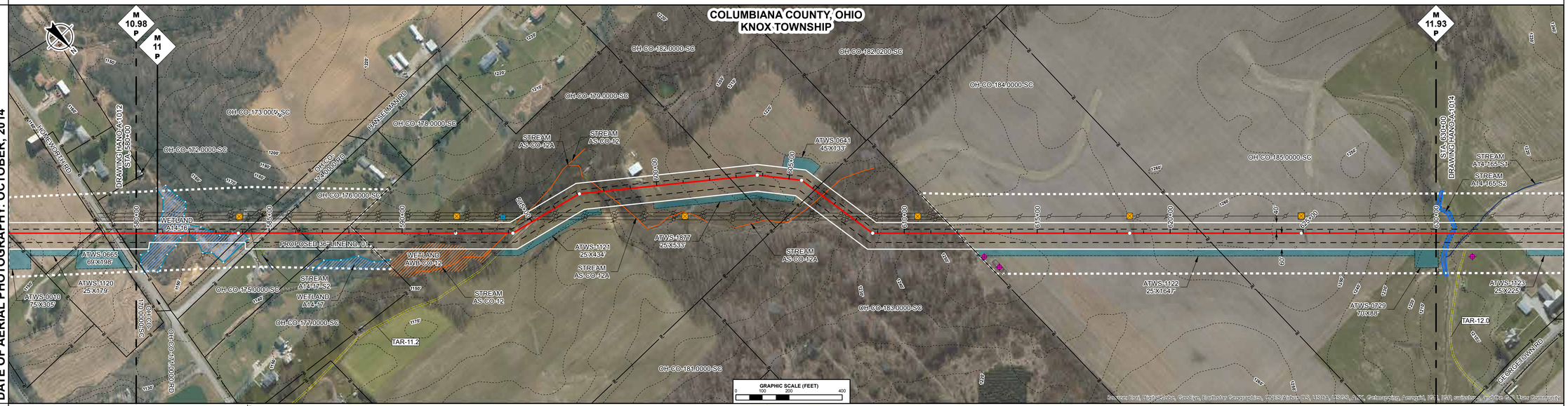
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 580+61 WETLAND A14-16 ENTER
STA. 584+25 WETLAND A14-16 EXIT
STA. 590+27 WETLAND AWB-CO-12 ENTER
STA. 592+47 WETLAND AWB-CO-12 EXIT
STA. 593+23 WETLAND AWB-CO-12 ENTER
STA. 593+35 WETLAND AWB-CO-12 EXIT
STA. 597+99 CENTERLINE OF STREAM AS-CO-12A TRIB TO MIDDLE BRANCH SANDY CREEK
STA. 606+44 CENTERLINE OF STREAM AS-CO-12A TRIB TO MIDDLE BRANCH SANDY CREEK

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED
SLOPE BREAKERS
TRENCH PLUG

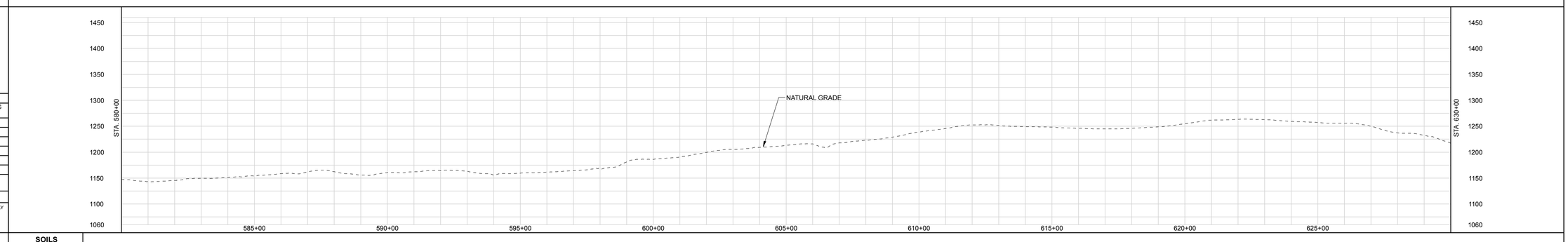
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

REV	DSN	CK	DESCRIPTION	DWG. NO.
A			ISSUED FOR FERC	

REFERENCE DRAWINGS — REVISIONS

ITEM NO.	DESCRIPTION	LN. FT.

MATERIALS

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 10.98 to M.P. 11.93
STA. 580+00 to STA. 630+00
ALIGNMENT SHEET

LOC. COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1013	REV. A

P:\205_UPSTREAM_PIPELINE\205K_OST\ArbRealm NEXUS PROPOSED MAINLINE PIPELINE 013 of 266.pdf - PLOT TIME: 2015-04-21 14:25:56

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

630+00 | OH-CO-185.0000-SC 806 FT. 48.8 RODS | 638+06 | OH-CO-186.0000-RD 90 FT. 5.5 RODS | 638+96 | OH-CO-187.0000-SC 818 FT. 49.6 RODS | 647+14 | OH-CO-188.0000-RD 21 FT. 1.3 RODS | 647+35 | OH-ST-001.0000-SC 2437 FT. 147.7 RODS | 671+72 | OH-ST-003.0000-SC 72 FT. 4.4 RODS | 672+44 | OH-ST-004.0000-SC 605 FT. 36.7 RODS | 678+49 | OH-ST-005.0000-SC 151 FT. 9.2 RODS | 680+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 631+37 GAS WELL 88 FT. RIGHT

STA. 637+61 TOWER, 64 FT. LEFT

STA. 637+61 PI - 00°02'06" RT

STA. 638+21 TOP BANK
STA. 638+22 POWERLINE, CLEARANCE 25 FT.
STA. 638+26 DITCH, DEPTH 0
STA. 638+33 FT. CENTERLINE
STA. 638+33 ROAD EDGE
STA. 638+51 PAVED, GEORGETOWN ST
STA. 638+68 ROAD EDGE
STA. 638+68 TOP BANK
STA. 638+70 DITCH, DEPTH 0
STA. 638+83 POWERLINE, CLEARANCE 25 FT.
STA. 638+98 TOP BANK

STA. 644+21 TOWER, 65 FT. LEFT

STA. 644+21 PI - 06°58'46" RT

STA. 646+76 PI - 05°37'15" LT

STA. 646+94 POWERLINE, CLEARANCE 25 FT.
STA. 647+00 TOP BANK
STA. 647+16 DITCH, DEPTH 0
FT. CENTERLINE
STA. 647+21 TOP BANK
STA. 647+32 ROAD EDGE
STA. 647+32 PAVED, MAHONING AVE
STA. 647+34 MUNICIPALITY LINE
STA. 647+48 ROAD EDGE
STA. 647+55 TOP BANK
STA. 647+63 DITCH, DEPTH 0
FT. CENTERLINE
STA. 647+70 TOP BANK

STA. 650+99 PI - 00°06'13" RT

STA. 654+46 OIL WELL, 83 FT. LEFT

STA. 658+37 TOWER, 90 FT. LEFT

STA. 658+37 PI - 00°03'35" LT

STA. 666+95 TOWER, 90 FT. LEFT

STA. 666+95 PI - 00°00'55" RT

STA. 676+73 PI - 00°03'00" LT

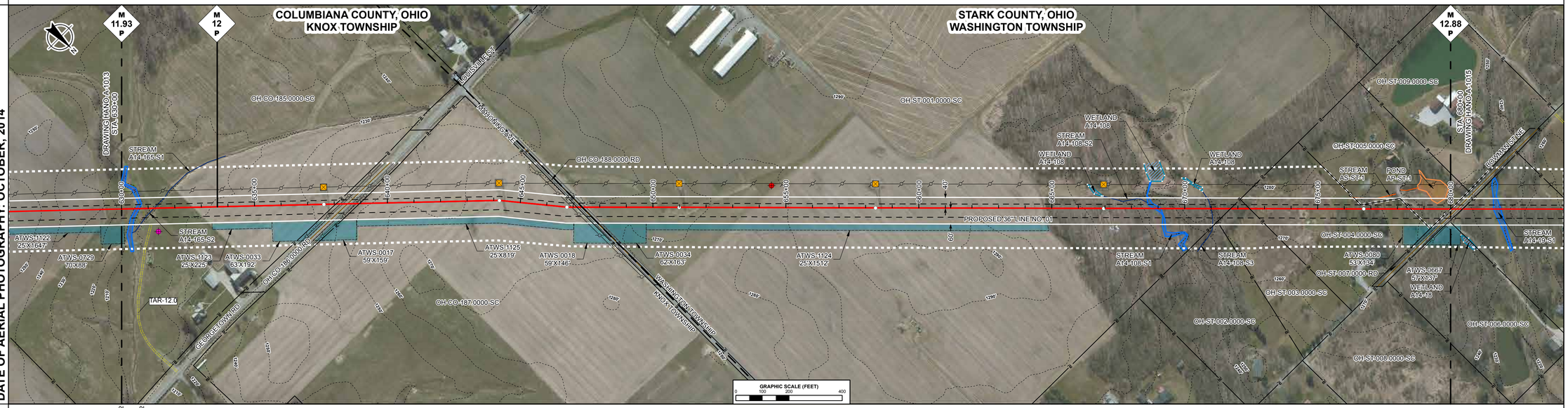
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE (T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 630+27 STREAM TRIB TO WOODLAND LAKE A14-165-S2 ENTER

STA. 630+75 STREAM TRIB TO WOODLAND LAKE A14-165-S2 EXIT

STA. 631+22 CENTERLINE OF STREAM A14-165-S1 TRIB TO WOODLAND LAKE

STA. 668+58 STREAM TRIB TO MIDDLE BRANCH SANDY CREEK A14-108-S3 ENTER

STA. 669+27 STREAM TRIB TO MIDDLE BRANCH SANDY CREEK A14-108-S3 EXIT

STA. 670+98 CENTERLINE OF STREAM A14-108-S3 TRIB TO MIDDLE BRANCH SANDY CREEK

STA. 679+27 POND TRIB TO MIDDLE BRANCH SANDY CREEK AP-ST-1 ENTER

STA. 679+80 POND TRIB TO MIDDLE BRANCH SANDY CREEK AP-ST-1 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

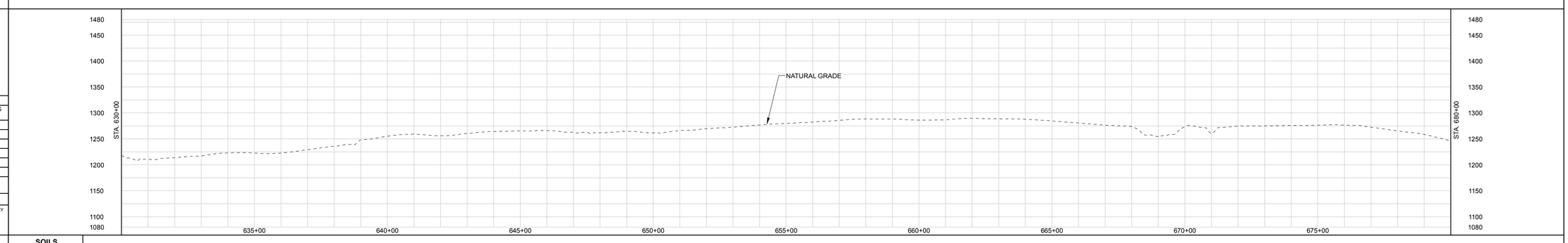
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\265_UPSTREAM_PIPELINE\2906_OS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 014 of 266.pdf - PLOT TIME: 2015-04-21 14:38:09

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 11.93 to M.P. 12.88
STA. 630+00 to STA. 680+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO AND COLUMBIANA COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1014 | REV. A

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

680+00	OH-ST-005.0000-SC	680+00	OH-ST-007.0000-RD	680+44	OH-ST-010.0000-SC	684+70	OH-ST-011.0000-SC	689+76	OH-ST-013.0000-SC	703+15	OH-ST-014.0000-SC	709+94	OH-ST-017.0000-SC	715+75	OH-ST-018.0000-SC	716+84	OH-ST-020.0000-RD	717+41	OH-ST-019.0000-SC	720+46	OH-ST-024.0000-RD	720+82	OH-ST-025.0000-SC	726+53	OH-ST-026.0000-SC	730+00
	0 FT.		44 FT.		426 FT.		506 FT.		1339 FT.		679 FT.		581 FT.		109 FT.		57 FT.		305 FT.		36 FT.		551 FT.		367 FT.	
	0.0 RODS		2.7 RODS		25.8 RODS		30.7 RODS		81.2 RODS		41.2 RODS		35.2 RODS		6.6 RODS		3.5 RODS		18.5 RODS		2.2 RODS		33.4 RODS		22.2 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 680+10 ROAD EDGE
STA. 680+20 ROAD EL DOMAN RD CENTERLINE
STA. 680+34 ROAD EDGE
STA. 680+47 POWERLINE CLEARANCE 20 FT.

STA. 689+31 TOWER, 90 FT. LEFT
STA. 689+31 PI = 00°03'04" RT
STA. 689+53 FENCE
STA. 689+75 FENCE
STA. 690+01 FENCE

STA. 700+58 PI = 01°55'12" RT

STA. 707+85 PI = 00°24'36" RT

STA. 716+85 PI = 03°13'18" LT
STA. 715+88 TOWER, 89 FT. LEFT
STA. 716+88 TOP BANK
STA. 716+93 DITCH, DEPTH 1.0
STA. 717+00 TOE OF SLOPE
STA. 717+00 ROAD EDGE
STA. 717+00 TOP BANK
SALEM CHURCH RD CENTERLINE
STA. 717+25 TOP BANK
STA. 717+32 DITCH, DEPTH 1.0
STA. 717+36 POWERLINE, CLEARANCE 15 FT.
STA. 717+41 TOP BANK
STA. 718+33 PI = 03°13'18" LT
STA. 718+93 POWERLINE, CLEARANCE 50 FT.
STA. 720+38 POWERLINE, CLEARANCE 47 FT.
STA. 720+48 ROAD EDGE
STA. 720+61 PAVED, SH CENTERLINE
STA. 720+74 ROAD EDGE
STA. 720+74 DITCH, DEPTH 1.0
STA. 721+12 PI = 35°28'15" RT
STA. 721+45 FOREIGN FT.
STA. 724+14 TOP BANK, 15' RT
STA. 724+14 DRAIN, DEPTH 1.0
FT. CENTERLINE
STA. 724+47 TOWER, 122 FT. RIGHT

STA. 727+29 PI = 41°20'52" RT

STA. 728+46 POWERLINE, CLEARANCE 46 FT.

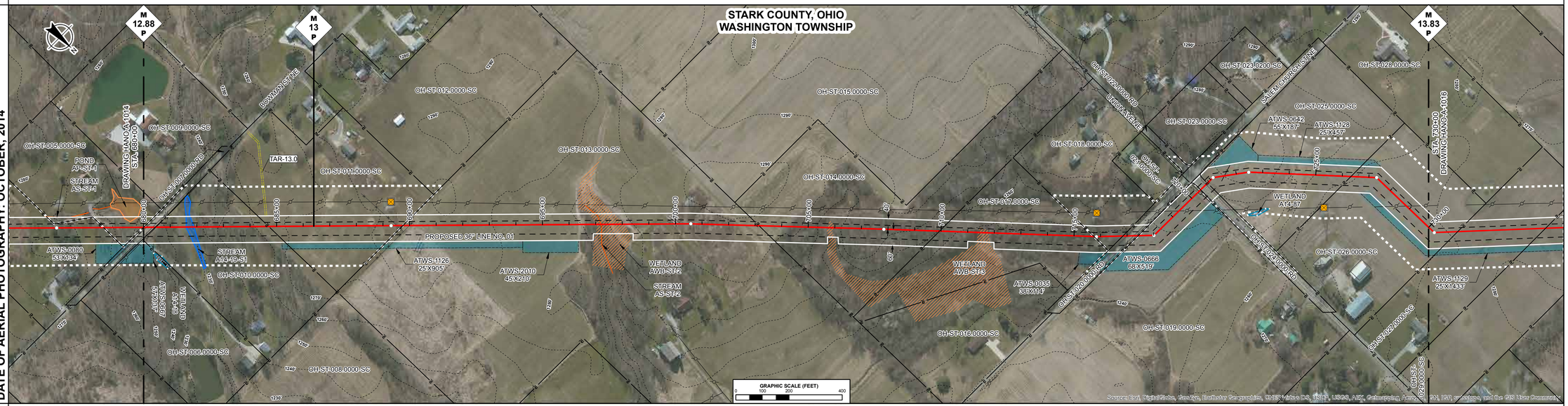
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

ENVIRONMENTAL DATA

STA. 681+61 STREAM TRIB TO MIDDLE BRANCH SANDY CREEK A14-19-S1 ENTER
STA. 682+07 STREAM TRIB TO MIDDLE BRANCH SANDY CREEK A14-19-S1 EXIT

STA. 696+76 WETLAND AWB-ST-2 ENTER
STA. 697+20 CENTERLINE OF STREAM AS-ST-2 TRIB TO MIDDLE BRANCH SANDY CREEK
STA. 698+27 WETLAND AWB-ST-2 EXIT

STA. 705+69 WETLAND AWB-ST-3 ENTER
STA. 706+04 WETLAND AWB-ST-3 EXIT

STA. 711+34 WETLAND AWB-ST-3 ENTER
STA. 711+65 WETLAND AWB-ST-3 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

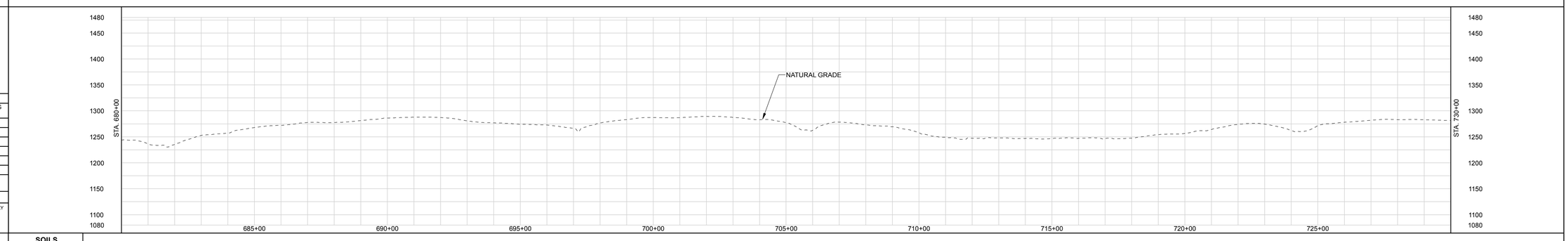
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

P:\265_UPSTREAM_PIPELINE\265K GIS\ToBeSent NEXUS PROPOSED MAINLINE PIPELINE 015-sf 266.pdf PLOT TIME: 2015-04-22 15:28:47

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
REFERENCE DRAWINGS		A			ISSUED FOR FERC
		REVISIONS			

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 12.88 to M.P. 13.83
STA. 680+00 to STA. 730+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1015	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

OH-ST-026.0000-SC	OH-ST-027.0000-SC	OH-ST-029.0000-SC	OH-ST-031.0000-SC	OH-ST-033.0000-SC	OH-ST-034.0000-SC	OH-ST-035.0000-RD	OH-ST-036.0000-SC	OH-ST-040.0000-SC	OH-ST-041.0000-SC	OH-ST-042.0000-SC
730+00	731+17	734+48	737+37	737+76	741+11	753+52	753+87	767+13	774+26	776+60	780+00
117 FT.	331 FT.	289 FT.	39 FT.	335 FT.	1241 FT.	35 FT.	1326 FT.	713 FT.	234 FT.	340 FT.	
7.1 RODS	20.1 RODS	17.5 RODS	2.4 RODS	20.3 RODS	75.2 RODS	2.1 RODS	80.4 RODS	43.2 RODS	14.2 RODS	20.6 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 730+29 PI – 46°01'04" LT

STA. 736+66 PI – 41°01'00" RT
STA. 736+66 TOWER, 90 FT. LEFT

STA. 741+36 GAS PL

STA. 746+34 TOWER, 90 FT. LEFT
STA. 746+34 PI – 38°47'52" RT

STA. 752+39 VALVE FENCE
STA. 752+65 MLV 2
STA. 753+40 VALVE FENCE
STA. 753+44 POWERLINE, CLEARANCE 28 FT.
STA. 753+45 TOP BANK
STA. 753+48 DITCH, DEPTH 0 FT, CENTERLINE
STA. 753+52 TOP BANK
STA. 753+58 ROAD EDGE
STA. 753+62 CULVERT
STA. 753+67 REMOVED CENFIELD
STA. 753+77 ROAD EDGE
STA. 753+79 TOP BANK
STA. 753+87 CULVERT
STA. 753+87 TOP BANK

STA. 766+29 CULVERT
STA. 767+31 GAS PL
STA. 767+45 OIL WELL, 166 FT. RIGHT
STA. 767+51 OIL WELL, 145 FT. RIGHT
STA. 767+51 PI – 54°42'48" LT

STA. 776+11 PI – 02°12'28" RT

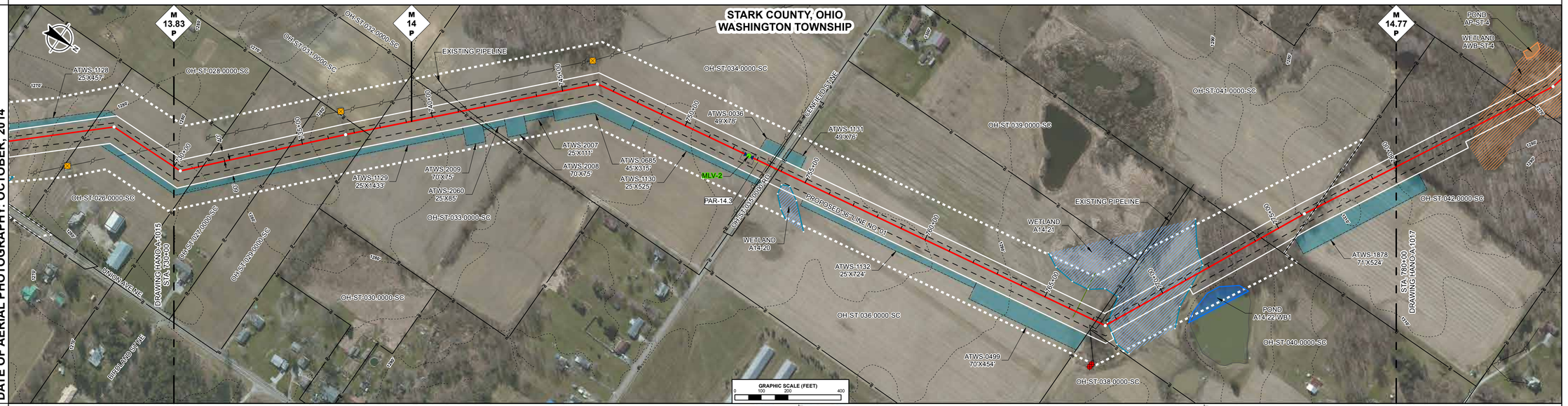
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS · WATER · OIL · OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 754+23 WETLAND A14-20 ENTER
STA. 754+61 WETLAND A14-20 EXIT
STA. 767+60 WETLAND A14-21 ENTER
STA. 771+87 WETLAND A14-21 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

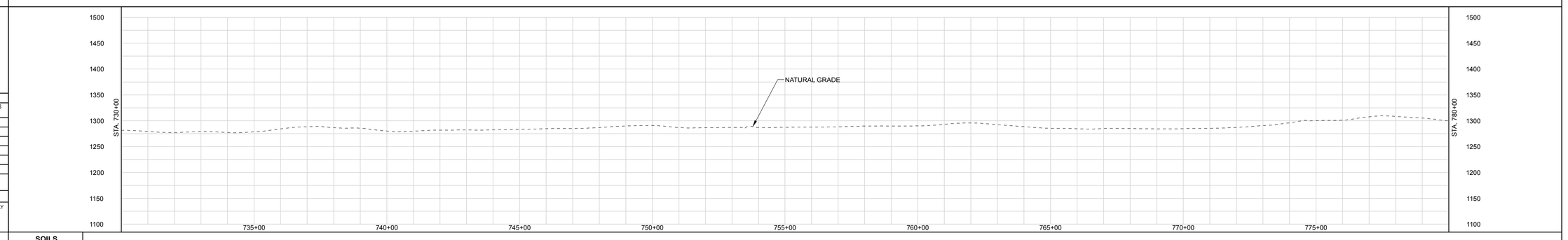
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

REFERENCE DRAWINGS		REVISIONS				MATERIALS		
DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 13.83 to M.P. 14.77
STA. 730+00 to STA. 780+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1016	REV. A

P:\205_UPSTREAM_PIPELINE\205K_OST\ArbRealm NEXUS PROPOSED MAINLINE PIPELINE 016 of 266.pdf - PLOT TIME: 2015-04-21 14:41:39

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

780+00 | OH-ST-042.0000-SC: 550 FT. / 33.3 RODS | 785+50 | OH-ST-043.0000-SC: 444 FT. / 26.9 RODS | 789+94 | OH-ST-044.0000-SC: 1207 FT. / 73.2 RODS | 802+01 | OH-ST-047.0000-SC: 252 FT. / 15.3 RODS | 804+53 | OH-ST-048.0000-SC: 2547 FT. / 154.4 RODS | 830+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

- **STA. 786+63 PI – 15°03'08" LT**
- STA. 790+02 TRAIL (LIDAR) EDGE
- STA. 790+09 TRAIL (LIDAR) EDGE
- STA. 804+39 FIELD ROAD (LIDAR) EDGE
- **STA. 804+77 PI – 12°47'43" RT**
- STA. 804+77 FIELD ROAD (LIDAR) EDGE
- STA. 812+30 POWERLINE, CLEARANCE UNK FT.
- **STA. 814+17 PI – 12°36'27" RT**
- **STA. 824+88 PI – 00°05'44" RT**
- **STA. 827+17 PI – 40°06'00" LT**
- STA. 828+59 POWERLINE, CLEARANCE 100 FT.

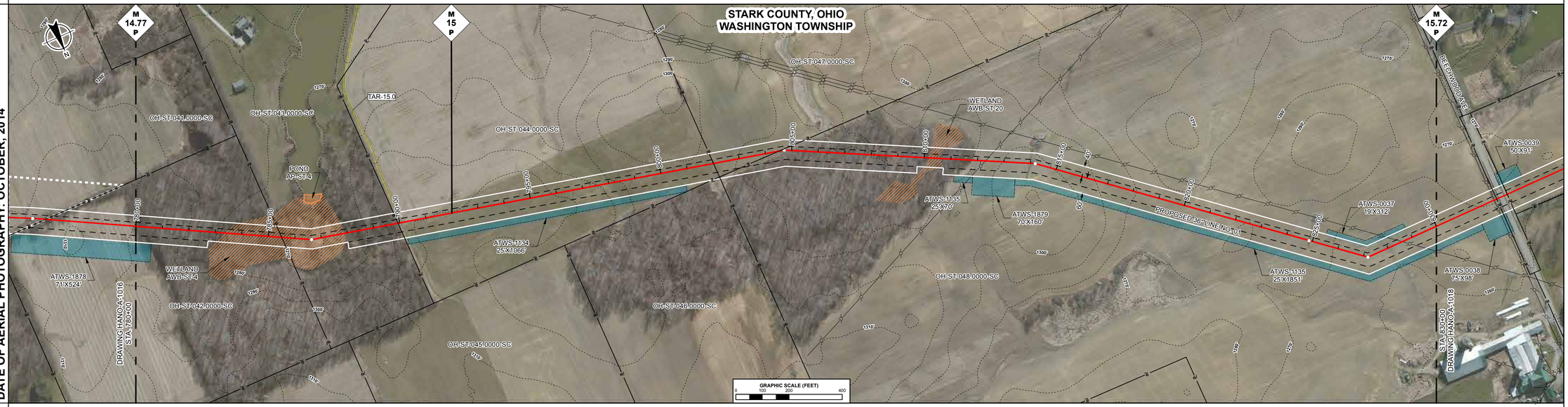
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

- STA. 789+04 WETLAND AWB-ST-4 ENTER
- STA. 797+91 WETLAND AWB-ST-4 EXIT
- STA. 810+03 WETLAND AWB-ST-20 ENTER
- STA. 810+93 WETLAND AWB-ST-20 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED (F)
SLOPE BREAKERS (○)
TRENCH PLUG (▲)

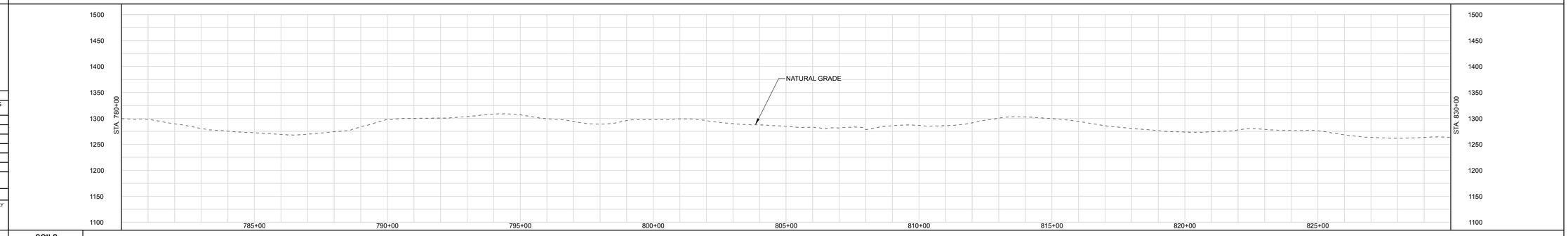
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

REV	DSN	CK	DESCRIPTION
A			ISSUED FOR FERC

REFERENCE DRAWINGS: DWG. NO. | DESCRIPTION
REVISIONS: REV | DSN | CK | DESCRIPTION
MATERIALS: ITEM NO. | DESCRIPTION | LN. FT.

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 14.77 to M.P. 15.72
STA. 780+00 to STA. 830+00
ALIGNMENT SHEET
LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1017 | REV. A

P:\095_UPSTREAM_PIPELINE\E295K_GIS\TurboRoute NEXUS PROPOSED MAINLINE PIPELINE 017 of 266.pdf - PLOT TIME: 2015-04-21 14:47:30

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

OH-ST-048.0000-SC	OH-ST-049.0000-RD	OH-ST-050.0000-SC	OH-ST-052.0000-SC	OH-ST-056.0000-RD	OH-ST-058.0000-SC	OH-ST-057.0000-SC	OH-ST-059.0000-SC	OH-ST-060.0000-SC
830+00	248 FT.	832+48	44 FT.	832+92	845+76	858+90	29 FT.	859+19	872+15	69 FT.	872+84	879+76	124 FT.	880+00
15.0 RODS		2.7 RODS		77.8 RODS	1284 FT.	79.6 RODS	1.8 RODS	1296 FT.	78.5 RODS	4.2 RODS	592 FT.	35.9 RODS	7.5 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 832+67 ROAD EDGE
STA. 832+88 PAVED, BEECH WOOD AVE CENTERLINE
STA. 832+90 ROAD EDGE
STA. 833+07 TOP BANK
STA. 832+88 DITCH, DEPTH 0 FT. CENTERLINE
STA. 832+93 TOP BANK

STA. 845+69 POWERLINE, CLEARANCE 25 FT.

STA. 859+99 ROAD EDGE
STA. 859+80 PAVED, FREDRICK AVE CENTERLINE
STA. 859+60 ROAD EDGE
STA. 859+21 TOE BANK
STA. 859+22 POWERLINE, CLEARANCE 17 FT.

STA. 865+80 PI – 01°17'26" RT

STA. 872+13 TOP BANK
STA. 872+13 FENCE
STA. 872+08 DITCH, DEPTH 0.5 FT. CENTERLINE
STA. 872+32 TOP BANK
STA. 872+32 FENCE
STA. 872+36 RAILROAD TOP
STA. 872+49 RAILROAD TOP
STA. 872+60 RAILROAD TOE
STA. 872+73 FENCE

STA. 879+25 TOP BANK
STA. 879+44 DITCH, DEPTH 0.5 FT. CENTERLINE
STA. 879+63 TOP BANK

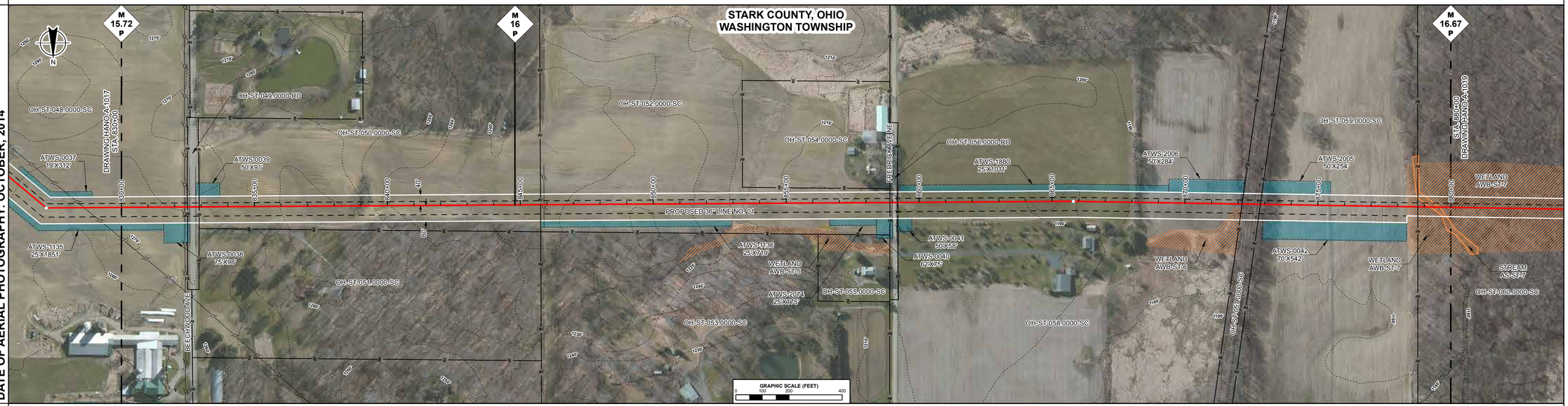
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
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- PERMANENT ACCESS ROAD (PAR-0.0)
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- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
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- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 871+53 WETLAND AWB-ST-6 ENTER
STA. 872+19 WETLAND AWB-ST-6 EXIT

STA. 878+94 WETLAND AWB-ST-7 ENTER
STA. 878+71 STREAM BEECH CREEK AS-ST-7 ENTER
STA. 879+06 WETLAND AWB-ST-7 ENTER
STA. 879+68 WETLAND AWB-ST-7 EXIT
STA. 879+85 STREAM BEECH CREEK AS-ST-7 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED
SLOPE BREAKERS
TRENCH PLUG

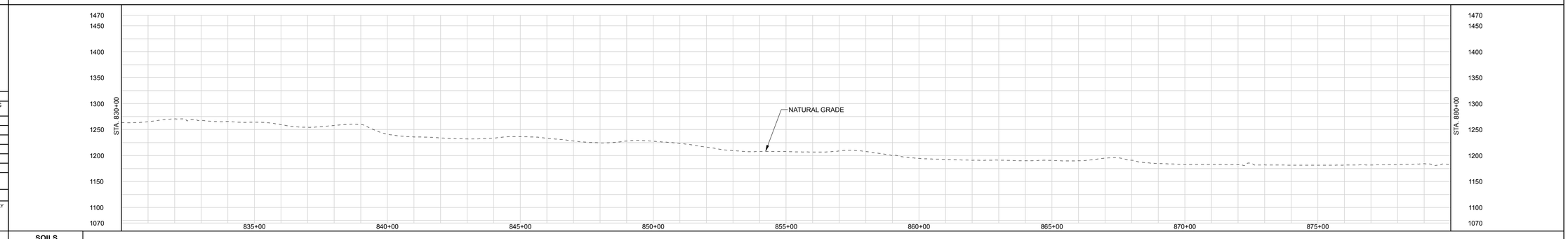
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
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>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 15.72 to M.P. 16.67
STA. 830+00 to STA. 880+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1018	REV. A

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 0118.vf.266.prf PLOT TIME: 2015-04-22 11:21:37

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

880+00 | OH-ST-060.0000-SC: 539 FT. / 32.7 RODS | 885+39 | OH-ST-063.0000-SC: 1835 FT. / 111.2 RODS | 903+74 | OH-ST-062.0000-SC: 195 FT. / 11.8 RODS | 905+69 | OH-ST-063.0000-SC: 626 FT. / 37.9 RODS | 911+84 | OH-ST-065.0000-SC: 673 FT. / 40.8 RODS | 918+57 | OH-ST-069.0000-SC: 1143 FT. / 69.3 RODS | 930+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 890+03 PI – 39°18'15" RT

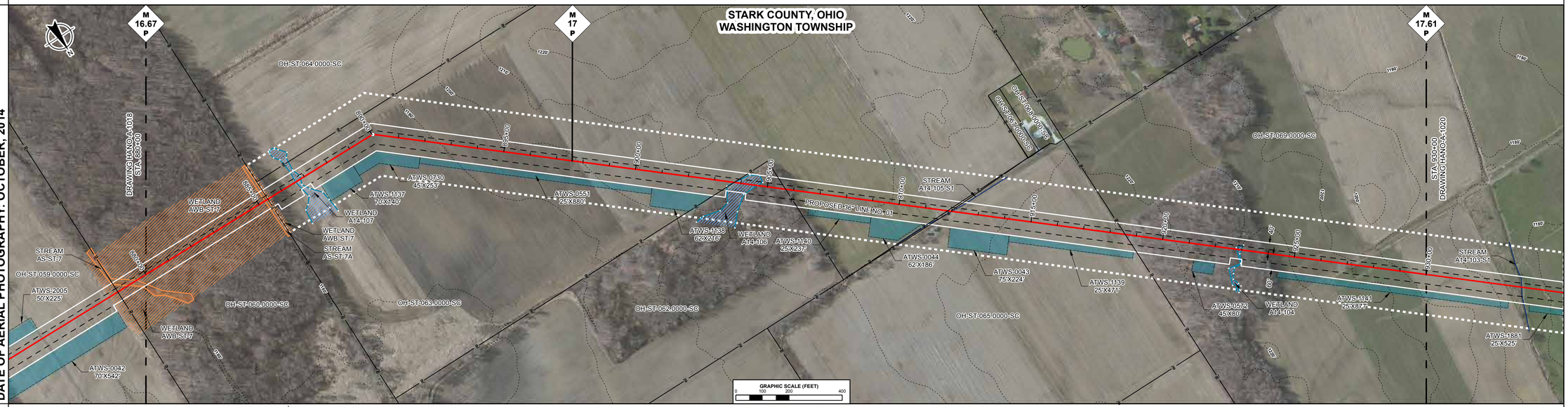
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (◇ 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 885+24 STREAM TRIB TO BEECH CREEK AS-ST-7A ENTER
STA. 885+35 WETLAND AWB-ST-7 EXIT
STA. 885+37 WETLAND AWB-ST-7 ENTER
STA. 885+37 STREAM TRIB TO BEECH CREEK AS-ST-7A EXIT
STA. 885+54 WETLAND AWB-ST-7 EXIT
STA. 886+61 WETLAND A14-107 ENTER
STA. 886+88 WETLAND A14-107 EXIT
STA. 903+40 WETLAND A14-106 ENTER
STA. 904+81 WETLAND A14-106 EXIT
STA. 912+01 CENTERLINE OF STREAM A14-105-S1 TRIB TO BEECH CREEK
STA. 922+78 WETLAND A14-104 ENTER
STA. 926+04 WETLAND A14-104 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (Ⓕ)
- SLOPE BREAKERS (○)
- TRENCH PLUG (▲)

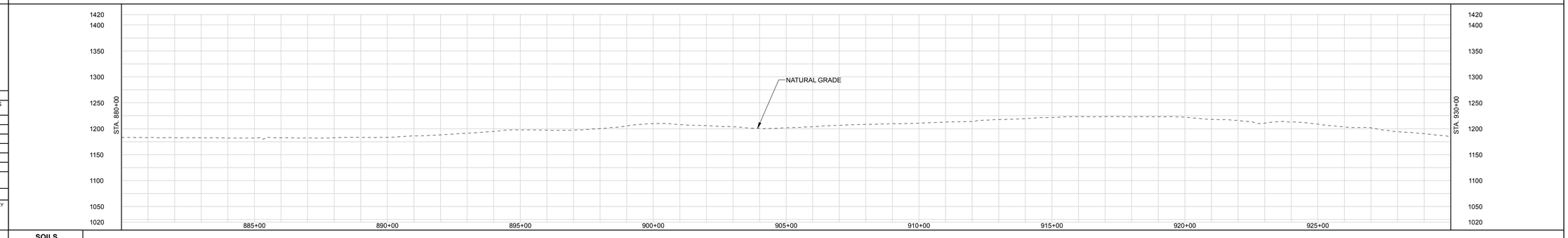
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\29S_UPSTREAM_PIPELINE\29SX_CS\TurboRoute NEXUS PROPOSED MAINLINE PIPELINE 019 of 266.pdf - PLOT TIME: 2015-04-21 14:52:37

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
REFERENCE DRAWINGS		REVISIONS			
		A			ISSUED FOR FERC

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 16.67 to M.P. 17.61
STA. 880+00 to STA. 930+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1019	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

930+00	OH-ST-069.0000-SC: 1107 FT. / 67.1 RODS	941+07	OH-ST-071.0000-RD: 39 FT. / 2.4 RODS	941+46	OH-ST-072.0000-SC: 10 FT. / 0.6 RODS	941+56	OH-ST-076.0000-SC: 405 FT. / 24.5 RODS	945+61	OH-ST-078.0000-SC: 700 FT. / 42.4 RODS	952+61	OH-ST-083.0000-RD: 23 FT. / 1.4 RODS	952+84	OH-ST-085.0000-SC: 147 FT. / 8.9 RODS	954+31	OH-ST-087.0000-RR: 119 FT. / 7.2 RODS	955+50	OH-ST-088.0000-SC: 517 FT. / 31.3 RODS	960+67	OH-ST-089.0000-SC: 1933 FT. / 117.2 RODS	980+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 940+53 PI – 20°25'03" RT
STA. 941+07 POWERLINE, CLEARANCE 15 FT.
STA. 941+14 ROAD EDGE
STA. 941+26 PAVED, EASTON STREET
STA. 941+36 ROAD EDGE
STA. 941+38 ROAD EDGE
STA. 941+42 UNDERGROUND TELEPHONE
STA. 941+48 SEWER
STA. 941+51 POWERLINE, CLEARANCE 45 FT.
STA. 941+51 ABOVEGROUND TELEPHONE
STA. 943+92 BUILDING, 113 FT. LEFT
STA. 943+98 BUILDING, 111 FT. LEFT
STA. 944+06 BUILDING, 108 FT. LEFT
STA. 945+37 PI – 61°31'19" LT

STA. 952+54 POWERLINE, CLEARANCE 10 FT.
STA. 952+54 ABOVEGROUND TELEPHONE LINE
STA. 952+59 SEWER
STA. 952+61 ROAD EDGE
STA. 952+72 PAVED, OAKHILL AVENUE
STA. 952+82 ROAD EDGE
STA. 952+92 POWERLINE, CLEARANCE 20 FT.
STA. 952+92 ROAD EDGE
STA. 952+94 POWERLINE, CLEARANCE 20 FT.
STA. 954+84 RAILROAD TOE
STA. 954+90 RAILROAD TOP
CENTERLINE
STA. 955+07 RAILROAD TOP
STA. 955+07 RAILROAD TOE
STA. 956+25 PI – 72°47'21" RT

STA. 966+92 PI – 18°11'40" LT

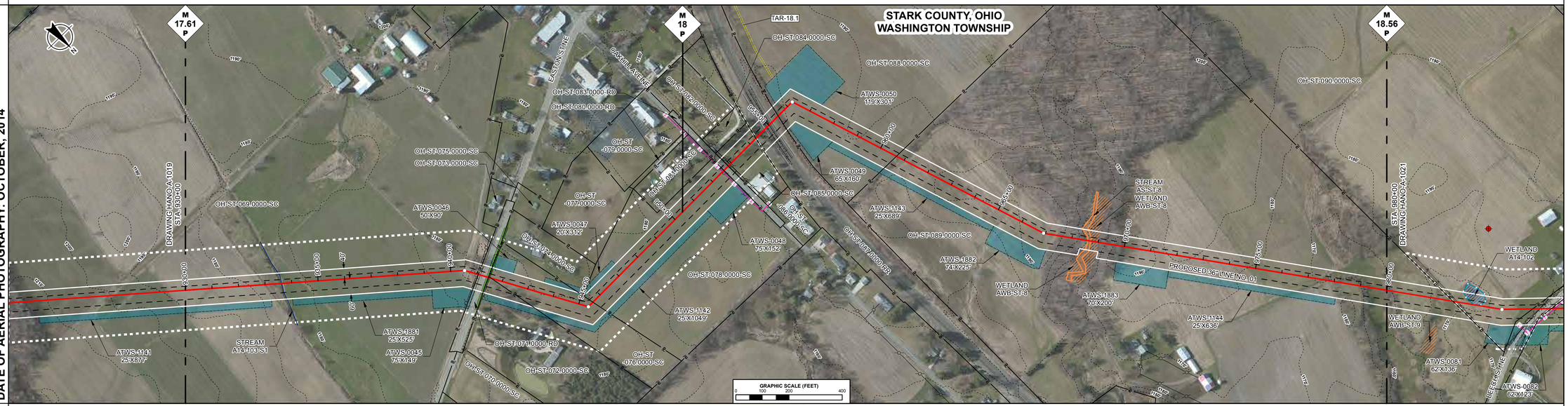
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
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- DELINEATED WATERBODY CENTERLINE
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- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 933+62 CENTERLINE OF STREAM A14-103-S1 TRIB TO BEECH CREEK

STA. 968+29 WETLAND AWB-ST-8 ENTER
STA. 968+35 STREAM TRIB TO BEECH CREEK AS-ST-8 ENTER
STA. 968+57 WETLAND AWB-ST-8 EXIT
STA. 968+61 WETLAND AWB-ST-8 ENTER
STA. 968+71 STREAM TRIB TO BEECH CREEK AS-ST-8 EXIT
STA. 969+02 WETLAND AWB-ST-8 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

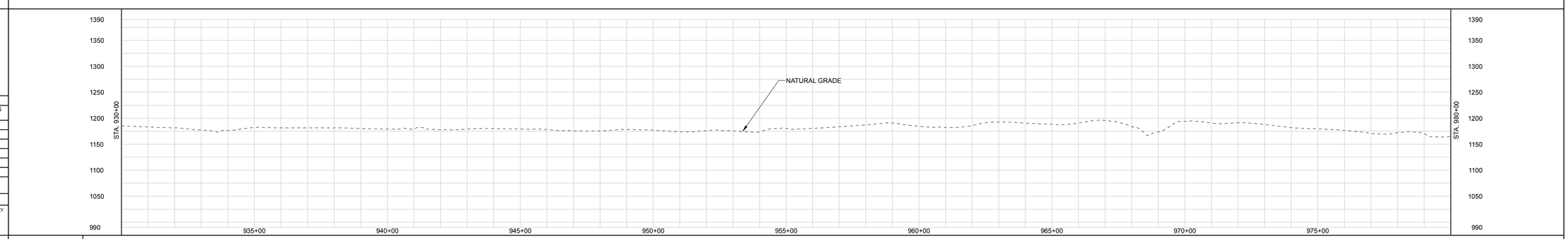
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

ENGINEERING APPROVALS	BID		CONSTRUCTION	
DRAWN BY: / TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 17.61 to M.P. 18.56
STA. 930+00 to STA. 980+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1020	REV. A

P:\205_UPSTREAM_PIPELINE\206K_OST\ArbRealm NEXUS PROPOSED MAINLINE PIPELINE 030 of 266.pdf - PLOT TIME: 2015-04-21 15:01:44

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

980+00	OH-ST-089.0000-SC	892+53	OH-ST-090.0000-SC	965+55	OH-ST-091.0000-RD	986+26	OH-ST-092.0000-SC	993+14	OH-ST-094.0000-SC	1003+93	OH-ST-096.0000-SC	1021+93	OH-ST-098.0000-RD	1022+11	OH-ST-100.0000-SC	1028+02	OH-ST-104.0000-RD	1030+00
	253 FT. 15.3 RODS		302 FT. 18.3 RODS		71 FT. 4.3 RODS		688 FT. 41.7 RODS		1079 FT. 65.4 RODS		1800 FT. 109.1 RODS		18 FT. 1.1 RODS		591 FT. 35.8 RODS		198 FT. 12.0 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 982+71 FENCE
STA. 983+40 OIL WELL, 291 FT. LEFT

STA. 984+40 PI – 10°23'38" LT

STA. 985+90 POWERLINE, CLEARANCE 20 FT.
STA. 985+80 ROAD EDGE
STA. 985+83 POWERLINE, CLEARANCE 27 FT.
STA. 985+96 PAVED, BEECH RD CENTERLINE
STA. 986+14 ROAD EDGE
STA. 986+16 TOP BANK
STA. 986+20 DITCH, DEPTH 0 FT. TO TOP BANK
STA. 986+38 TELEPHONE LINE
STA. 986+39 POWERLINE, CLEARANCE 27 FT.

STA. 988+69 PI – 25°06'26" LT

STA. 995+10 ROAD EDGE
STA. 995+18 GRAVEL, NONE CENTERLINE
STA. 995+26 ROAD EDGE

STA. 997+35 PI – 38°41'05" RT

STA. 997+82 TOP BANK
STA. 998+04 TOE BANK
STA. 998+03 TOE BANK
STA. 998+05 TOP BANK

STA. 1007+71 PI – 25°20'12" LT

STA. 1014+82 PI – 18°32'15" LT

STA. 1021+94 ROAD EDGE
STA. 1021+99 MUNICIPALITY LINE
STA. 1022+00 PAVED, PARKS AVE CENTERLINE
STA. 1022+07 ROAD EDGE

STA. 1027+68 PI – 53°06'29" RT

STA. 1028+03 FENCE
STA. 1029+03 US HWY 62 (SCALED) CENTERLINE
STA. 1029+49 US HWY 62 (SCALED) CENTERLINE

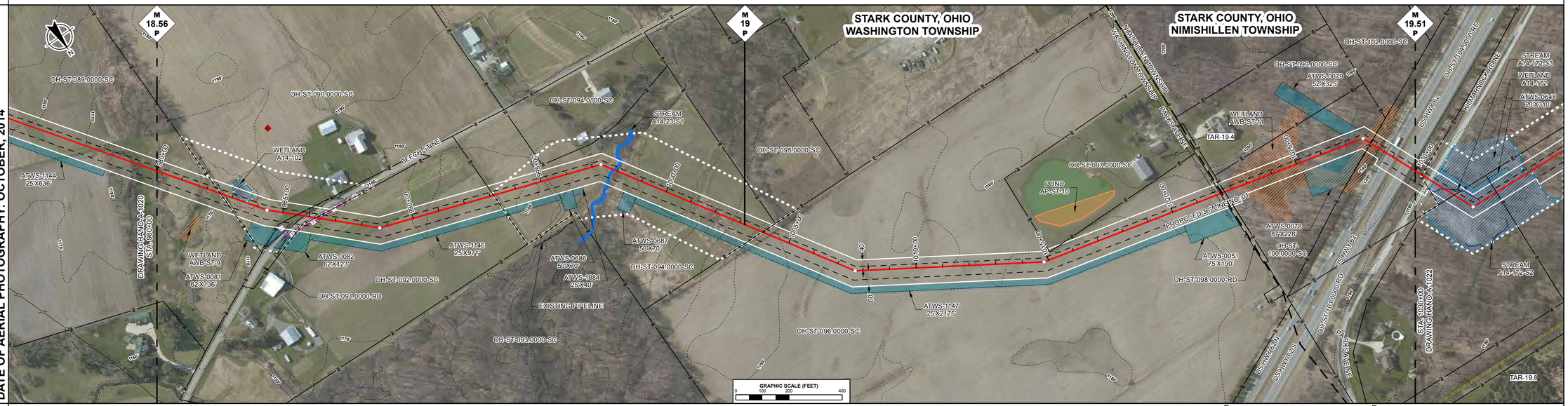
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE (T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

ENVIRONMENTAL DATA

STA. 982+68 WETLAND A14-102 ENTER
STA. 983+72 WETLAND A14-102 EXIT

STA. 997+75 STREAM TRIB TO BEECH CREEK A14-23-S1 ENTER
STA. 998+05 STREAM TRIB TO BEECH CREEK A14-23-S1 EXIT

STA. 1022+36 WETLAND AWB-ST-11 ENTER

STA. 1028+38 WETLAND AWB-ST-11 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED
SLOPE BREAKERS
TRENCH PLUG

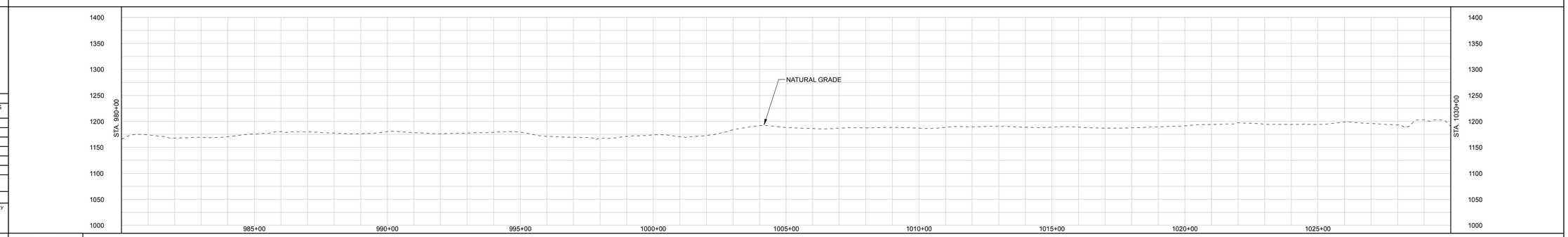
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

P:\265_UPSTREAM_PIPELINE\2SK_CS\Tuds\Build NEXUS PROPOSED MAINLINE PIPELINE 021 of 266.pdf PLOT TIME: 2015-04-22 10:36:22

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 18.56 to M.P. 19.51
STA. 980+00 to STA. 1030+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1021	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1030+00 | **OH-ST-104.0000-RD** 28 FT. 1.7 RODS | 1030+28 | **OH-ST-105.0000-SC** 144 FT. 8.7 RODS | 1031+72 | **OH-ST-103.0000-SC** 187 FT. 11.3 RODS | 1032+59 | **OH-ST-106.0000-SC** 1812 FT. 109.8 RODS | 1051+71 | **OH-ST-113.0000-SC** 2829 FT. 171.5 RODS | 1080+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1030+41 TOE BANK
STA. 1030+51 TOP BANK
STA. 1030+53 ROAD EDGE
STA. 1030+62 PAVEMENT
KILMARNOCK RD
CENTERLINE
STA. 1030+72 ROAD EDGE
STA. 1030+74 TOP BANK
STA. 1030+79 TOE BANK
STA. 1032+58 PI – 53°46'28" LT

STA. 1064+10 PI – 53°41'34" RT
STA. 1064+80 POWERLINE
CLEARANCE 75 FT.
STA. 1064+90 POWERLINE
CLEARANCE 75 FT.
STA. 1065+24 POWERLINE
CLEARANCE 75 FT.

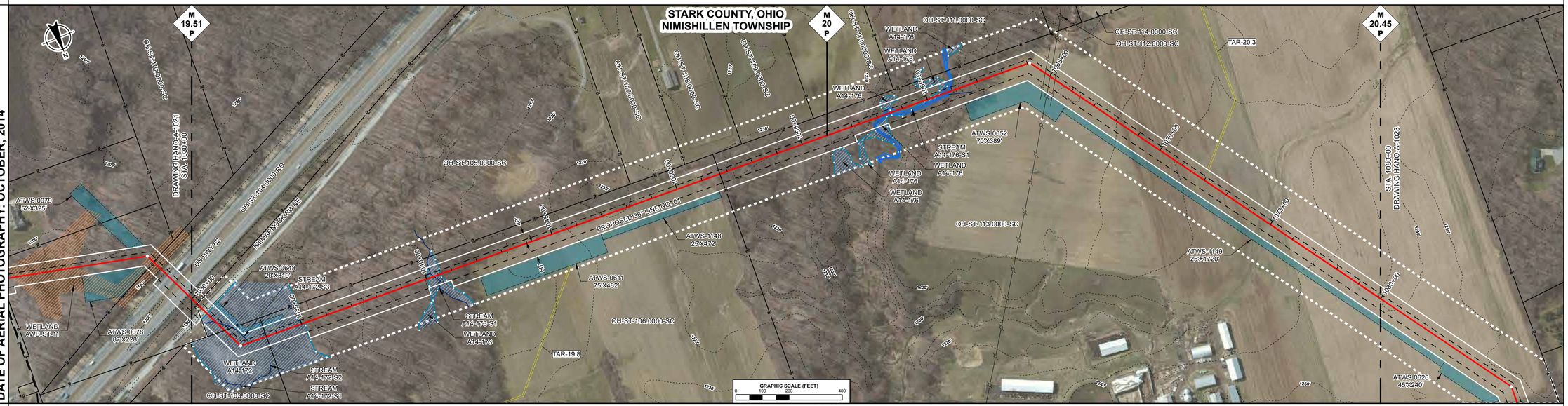
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
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- FACILITIES PERMANENT WORKSPACE
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- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

ENVIRONMENTAL DATA

STA. 1030+79 WETLAND A14-172 ENTER
STA. 1031+28 CENTERLINE OF STREAM A14-172-S3 TRIB TO BEECH CREEK
STA. 1036+12 WETLAND A14-172 EXIT
STA. 1039+99 WETLAND A14-173 ENTER
STA. 1040+29 CENTERLINE OF STREAM A14-173-S1 TRIB TO BEECH CREEK
STA. 1040+71 WETLAND A14-173 EXIT
STA. 1056+17 WETLAND A14-176 ENTER
STA. 1056+17 WETLAND A14-176 EXIT
STA. 1057+79 STREAM TRIB TO BEECH CREEK A14-176-S1 ENTER
STA. 1057+87 WETLAND A14-176 ENTER
STA. 1058+01 WETLAND A14-176 EXIT
STA. 1059+33 WETLAND A14-176 ENTER
STA. 1060+85 WETLAND A14-176 EXIT
STA. 1061+13 STREAM TRIB TO BEECH CREEK A14-176-S1 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED ⓕ
SLOPE BREAKERS ○
TRENCH PLUG ▲

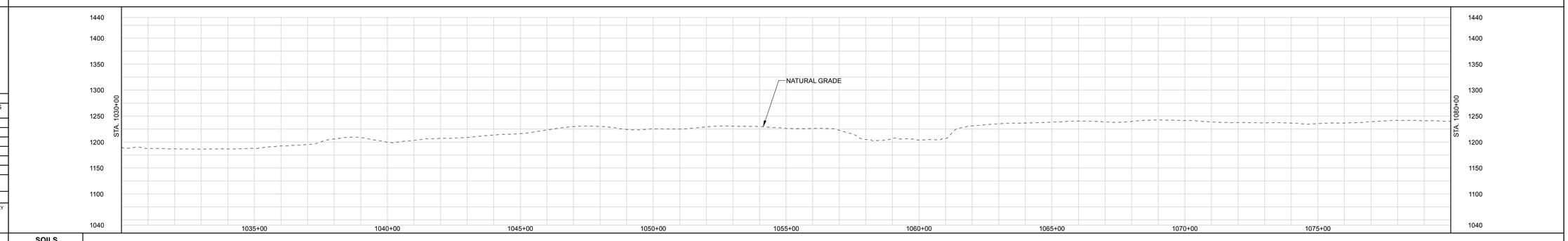
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

	BID		CONSTRUCTION	
	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 19.51 to M.P. 20.45
STA. 1030+00 to STA. 1080+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1022 | REV. A

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 021.vf.266.tvf PLOT TIME: 2015-04-22 09:09:04

RIGHT-OF-WAY

TRACT NUMBERS

1080+00

OH-ST-113.0000-SC
1147 FT.
69.5 RODS

1091+47

OH-ST-118.0000-SC
260 FT.
15.8 RODS

1094+07

OH-ST-121.0000-RD
49 FT.
3.0 RODS

1094+56

OH-ST-117.0000-SC
108 FT.
6.5 RODS

1095+64

OH-ST-128.0000-SC
2072 FT.
125.6 RODS

1116+36

OH-ST-130.0000-SC
1090 FT.
66.1 RODS

1127+26

OH-ST-131.0000-RD
50 FT.
3.0 RODS

1127+76

OH-ST-134.0000-SC
131 FT.
7.9 RODS

1129+07

OH-ST-135.0000-SC
93 FT.
5.6 RODS

1130+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1085+93 PI – 36°13'19" RT

STA. 1088+31 GAS WELL - 113 FT. LEFT

STA. 1094+36 MUNICIPALITY LINE
STA. 1094+39 STATE ST. (SCALED) CENTERLINE
STA. 1094+98 PI – 51°16'22" LT
STA. 1094+98 BUILDING, 119 FT. RIGHT
STA. 1094+98 BUILDING, 146 FT. RIGHT
STA. 1095+57 DRIVEWAY EDGE
STA. 1095+83 DRIVEWAY CENTERLINE
STA. 1096+08 DRIVEWAY EDGE

STA. 1099+81 PI – 16°15'13" RT

STA. 1103+44 DRIVEWAY
STA. 1103+49 DRIVEWAY CENTERLINE
STA. 1103+54 DRIVEWAY

STA. 1116+35 FENCE

STA. 1127+33 ROAD EDGE
STA. 1127+47 PAVED, COLUMBUS RD CENTERLINE
STA. 1127+60 ROAD EDGE

STA. 1129+98 PI – 36°25'44" LT

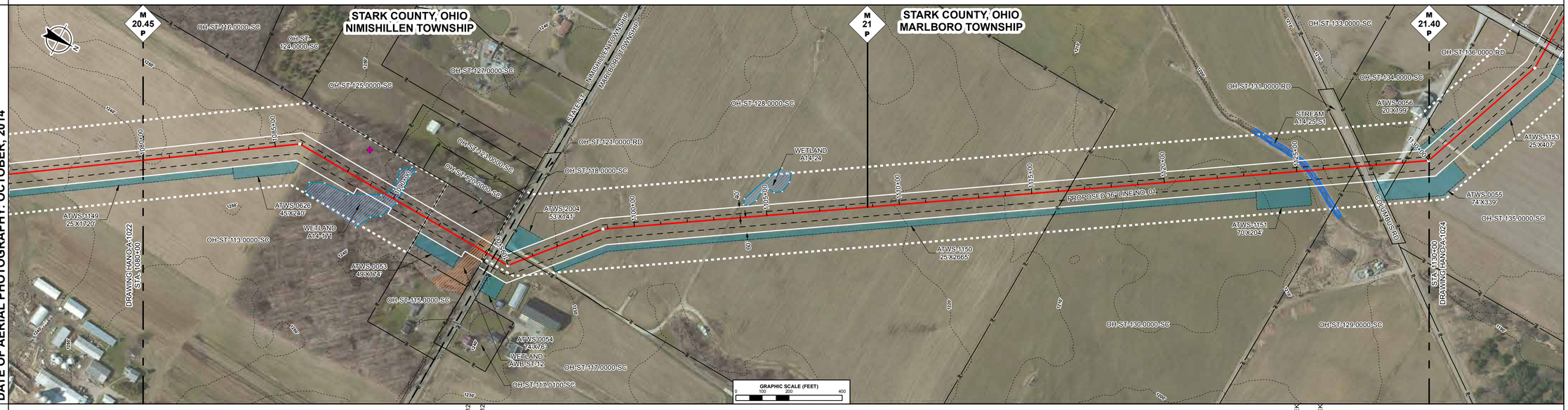
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1089+09 WETLAND A14-171 ENTER

STA. 1090+21 WETLAND A14-171 EXIT

STA. 1093+44 WETLAND AWB-ST-12 ENTER
STA. 1094+07 WETLAND AWB-ST-12 EXIT

STA. 1125+04 STREAM MIDDLE BRANCH NIMISHILLEN CREEK A14-25-S1 ENTER
STA. 1125+52 STREAM MIDDLE BRANCH NIMISHILLEN CREEK A14-25-S1 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

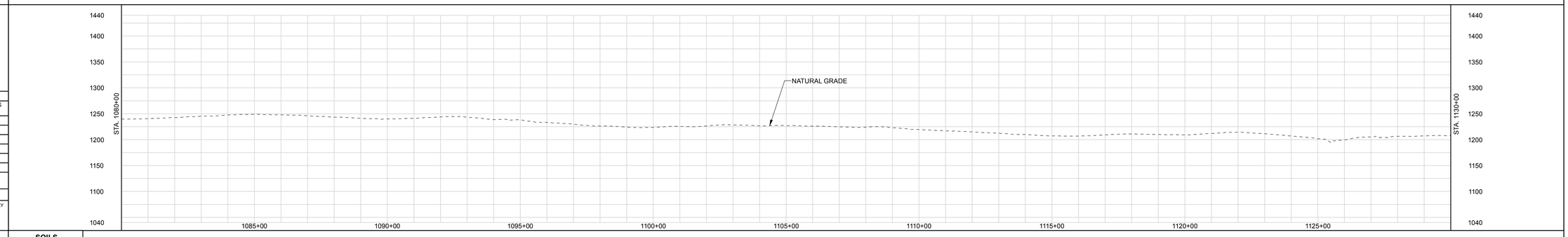
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 20.45 to M.P. 21.40
STA. 1080+00 to STA. 1130+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1023	REV. A

IG.#

P:\295_UPSTREAM_PIPELINE\295K_GIS\TurboRoute\NEXUS PROPOSED MAINLINE PIPELINE 023 s*265.pdf - PLOT TIME: 2015-04-22 09:11:35

RIGHT-OF-WAY

TRACT NUMBERS

1130+00 | OH-ST-135.0000-SC: 606 FT. / 36.7 RODS | 1136+06 | OH-ST-136.0000-RD: 34 FT. / 2.1 RODS | 1136+40 | OH-ST-140.0000-SC: 1524 FT. / 92.4 RODS | 1151+64 | OH-ST-141.0000-SC: 1153 FT. / 69.9 RODS | 1163+17 | OH-ST-146.0000-SC: 1683 FT. / 102.0 RODS | 1180+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1135+28 PI – 19°07'18" LT
STA. 1136+03 DITCH, DEPTH 0 FT. CENTERLINE
STA. 1136+11 ROAD EDGE
STA. 1136+21 PAVED MARLBORO AVE CENTERLINE
STA. 1136+32 ROAD EDGE
STA. 1136+40 DITCH, DEPTH 0 FT. CENTERLINE
STA. 1136+45 POWERLINE. CLEARANCE 15 FT.

STA. 1146+12 PI – 23°42'43" LT

STA. 1151+64 PI – 23°34'34" RT

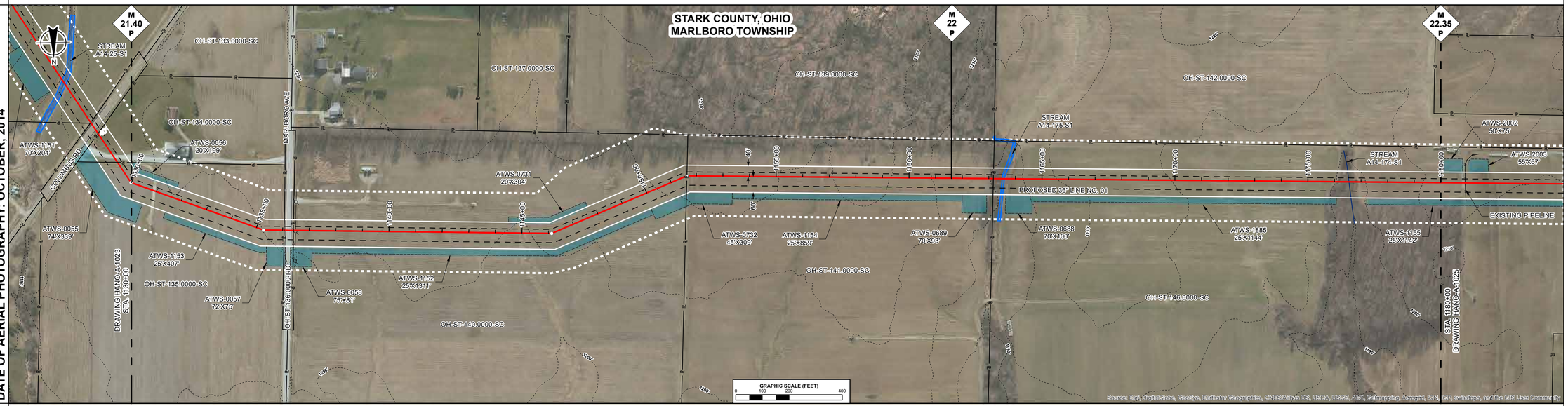
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1163+45 STREAM NIMISHILLA CREEK ENTER
STA. 1167+27 STREAM NIMISHILLA CREEK EXIT

STA. 1176+55 CENTERLINE OF STREAM A14-174-S1 TRIB TO MOSQUITO CREEK TRIB TO NIMISHILLEN CREEK

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

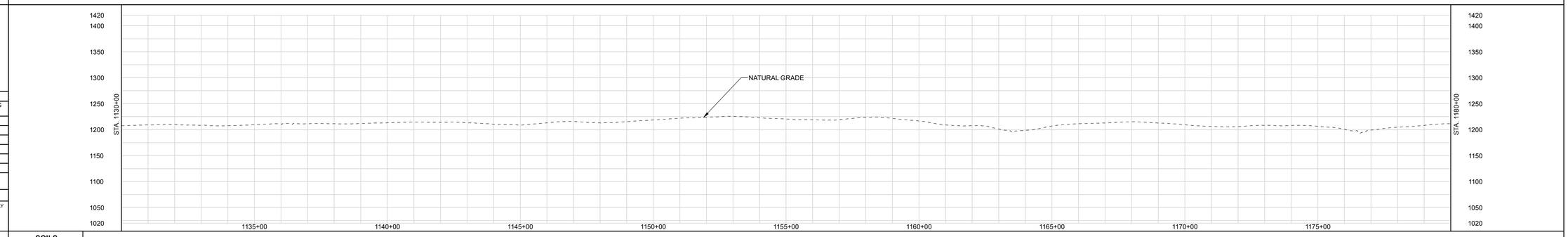
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

P:\265_UPSTREAM_PIPELINE\265K_OST\ArbRealm NEXUS PROPOSED MAINLINE PIPELINE 034 vf 266.pdf - PLOT TIME: 2015-04-21 15:08:15

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 21.40 to M.P. 22.35
STA. 1130+00 to STA. 1180+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1024	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1180+00 | OH-ST-146.0000-SC: 923 FT. / 55.9 RODS | 1189+23 | OH-ST-147.0000-RD: 21 FT. / 1.3 RODS | 1189+44 | OH-ST-146.0000-SC: 1528 FT. / 92.6 RODS | 1204+72 | OH-ST-152.0000-RD: 46 FT. / 2.8 RODS | 1205+18 | OH-ST-154.0000-SC: 1043 FT. / 63.2 RODS | 1215+61 | OH-ST-158.0000-SC: 1439 FT. / 87.2 RODS | 1230+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1180+92 GAS P.L.
STA. 1188+33 WELL. 79 FT. LEFT
STA. 1189+16 POWERLINE. 21 FT. LEFT
STA. 1189+24 ROAD EDGE
STA. 1189+33 PAVED \ FRENCH AVE CENTERLINE
STA. 1189+41 ROAD EDGE
STA. 1189+41 TOP BANK
STA. 1189+44 TOTAL DEPTH 0 FT. CENTERLINE
STA. 1189+45 TOP BANK
STA. 1192+34 GAS P.L.
STA. 1204+78 ROAD EDGE
STA. 1204+84 REF. BARS
AVE CENTERLINE
STA. 1205+10 ROAD EDGE
STA. 1205+12 TOP BANK
STA. 1205+17 TOTAL DEPTH 0 FT. CENTERLINE
STA. 1205+24 TOP BANK
STA. 1205+50 FENCE
STA. 1206+26 GAS WELL. 406 FT. RIGHT
STA. 1222+18 PI – 19°30'50" RT
STA. 1225+73 PI – 18°44'06" LT

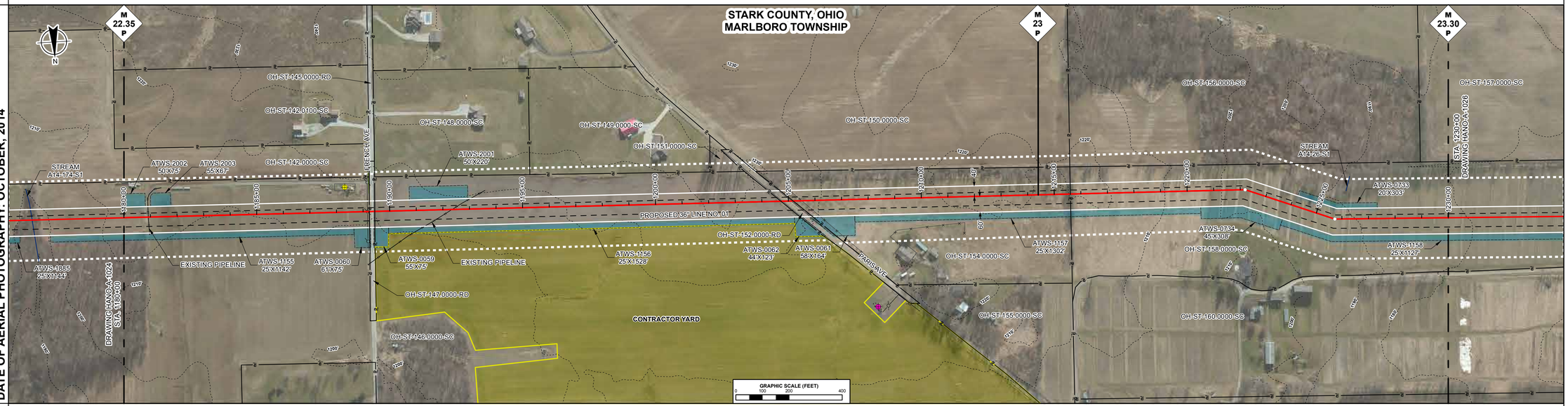
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

FLUME PIPE AS REQUIRED (F)
SLOPE BREAKERS (O)
TRENCH PLUG (▲)

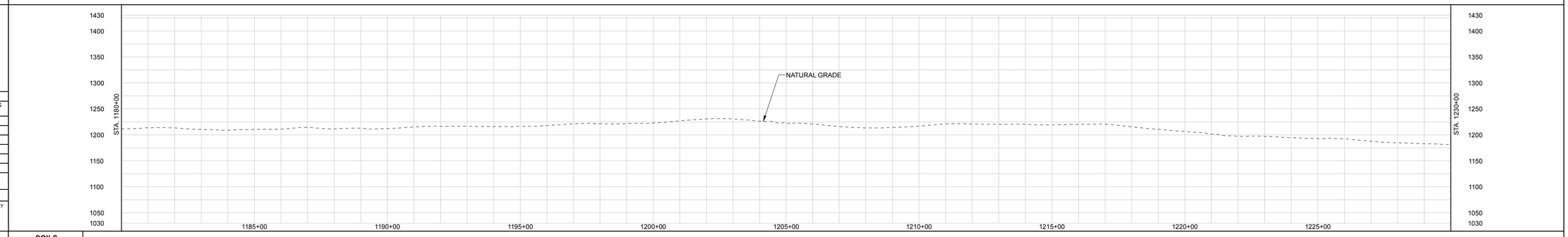
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 22.35 to M.P. 23.30
STA. 1180+00 to STA. 1230+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1025	REV. A

P:\265_UPSTREAM_PIPELINE\265K_OST\ArbRoute\ NEXUS PROPOSED MAINLINE PIPELINE 035 of 266.pdf - PLOT TIME: 2015-04-21 15:10:23

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

1239+00

OH-ST-158.0000-SC
1201 FT.
72.8 RODS

1242+01 — 1242+31

OH-ST-163.0000-RD
30 FT.
1.8 RODS

OH-ST-166.0000-SC
2211 FT.
134.0 RODS

1264+42

OH-ST-169.0000-SC
1558 FT.
94.4 RODS

1280+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1235+04 TOP BANK
STA. 1235+09 DITCH, DEPTH 0
FT, NONE PERENNIAL
STA. 1235+13 TOP BANK

STA. 1242+02 ROAD EDGE
STA. 1242+14 RAVENNA AVE/
STATE ROAD 44 CENTERLINE
STA. 1242+26 ROAD EDGE

STA. 1260+21 TOP BANK
STA. 1260+66 CREEK, DEPTH
0 FT, CENTERLINE
STA. 1261+07 TOP BANK

STA. 1276+68 ROAD EDGE
STA. 1276+78 DITCH, NONE
CENTERLINE
STA. 1276+86 ROAD EDGE

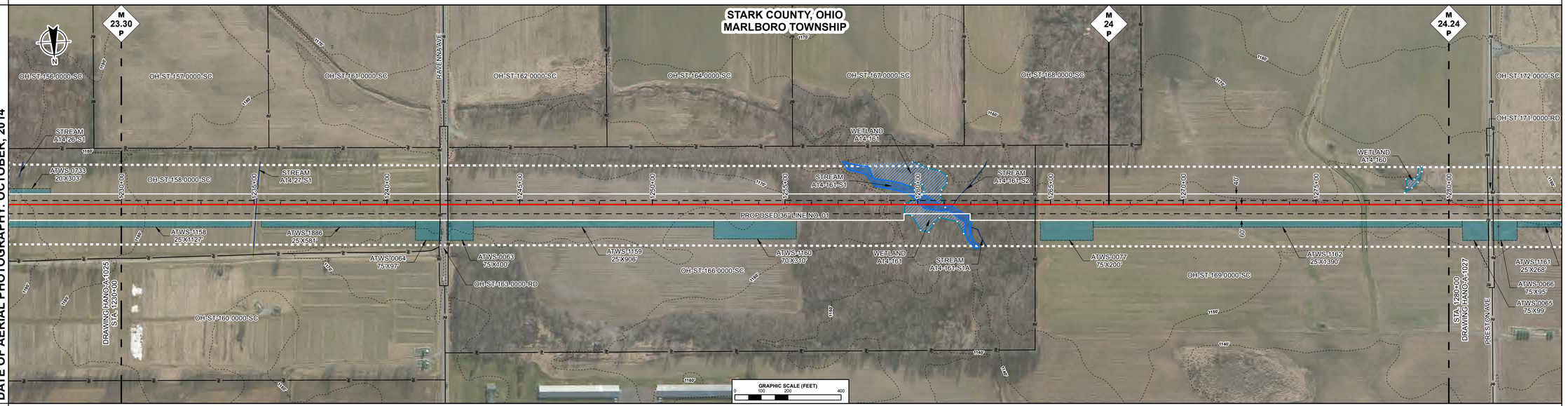
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1235+09 CENTERLINE OF STREAM A14-27-S1 TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK

STA. 1259+51 WETLAND A14-161 ENTER
STA. 1259+59 STREAM TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK A14-161-S1 ENTER
STA. 1260+21 WETLAND A14-161 EXIT
STA. 1261+03 WETLAND A14-161 ENTER
STA. 1261+33 CENTERLINE OF STREAM A14-161-S2 TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK
STA. 1261+43 WETLAND A14-161 EXIT
STA. 1261+73 STREAM TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK A14-161-S1 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

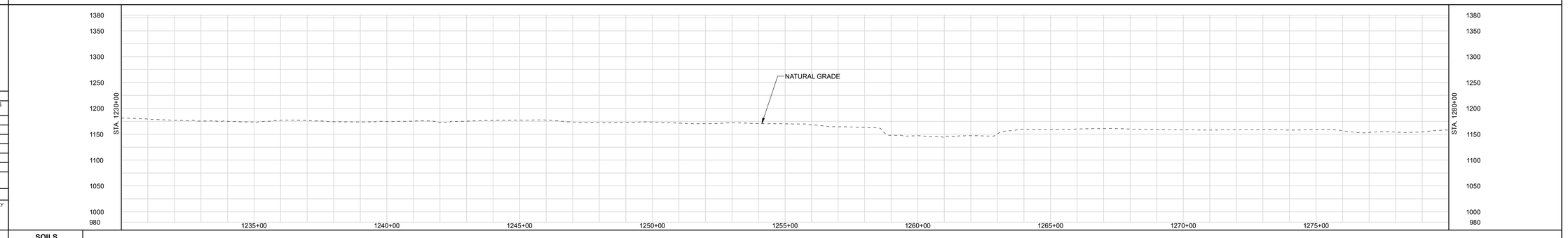
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
REFERENCE DRAWINGS		A			ISSUED FOR FERC
		REVISIONS			

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 23.30 to M.P. 24.24
STA. 1230+00 to STA. 1280+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1026	REV. A

P:\205_UPSTREAM_PIPELINE\205K_OST\ArbRoute NEXUS PROPOSED MAINLINE PIPELINE 036 of 766.pdf - PLOT TIME: 2015-04-22 09:18:6

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

1280+00	OH-ST-169.0000-SC	1281+48	OH-ST-171.0000-RD	1281+66	OH-ST-172.0000-SC	1295+83	OH-ST-177.0000-SC	1310+42	OH-ST-175.0000-RD	1310+94	OH-ST-177.0000-SC	1320+84	OH-ST-181.0000-SC	1324+62	OH-ST-184.0000-SC	1328+54	OH-ST-182.0000-SC	1329+87	OH-ST-188.0000-SC	1330+00
	148 FT.		18 FT.		1417 FT.		1459 FT.		52 FT.		990 FT.		378 FT.		392 FT.		133 FT.		13 FT.	
	9.0 RODS		1.1 RODS		85.9 RODS		88.4 RODS		3.2 RODS		60.0 RODS		22.9 RODS		23.8 RODS		8.1 RODS		0.8 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1281+41 DITCH, DEPTH 0 FT. CENTERLINE
STA. 1281+48 ROAD EDGE
STA. 1281+55 OIL WELL
PRESTON RD
CENTERLINE
STA. 1281+62 ROAD EDGE
STA. 1281+71 DITCH, DEPTH 0 FT. CENTERLINE
STA. 1281+87 FENCE

STA. 1292+00 PI – 42°35'52" LT

STA. 1301+07 PI – 27°32'16" RT

STA. 1302+39 OIL WELL, 150 FT. RIGHT

STA. 1305+16 TOP BANK
STA. 1305+36 DITCH, DEPTH 0 FT. CENTERLINE
STA. 1305+48 TOP BANK

STA. 1307+19 PI – 31°32'09" RT

STA. 1310+39 TOP BANK
STA. 1310+46 DITCH, DEPTH 0.1 FT. CENTERLINE
STA. 1310+50 TOP BANK
STA. 1310+52 PAVED EDGE
PETERS CHURCH RD
CENTERLINE
STA. 1310+74 ROAD EDGE
STA. 1310+75 TOP BANK
STA. 1310+81 POWERLINE, CL 64.5' LEFT
STA. 1310+88 TOE BANK

STA. 1320+86 TOP BANK
STA. 1321+15 DITCH, DEPTH 0.1 FT. CENTERLINE
STA. 1321+28 TOP BANK

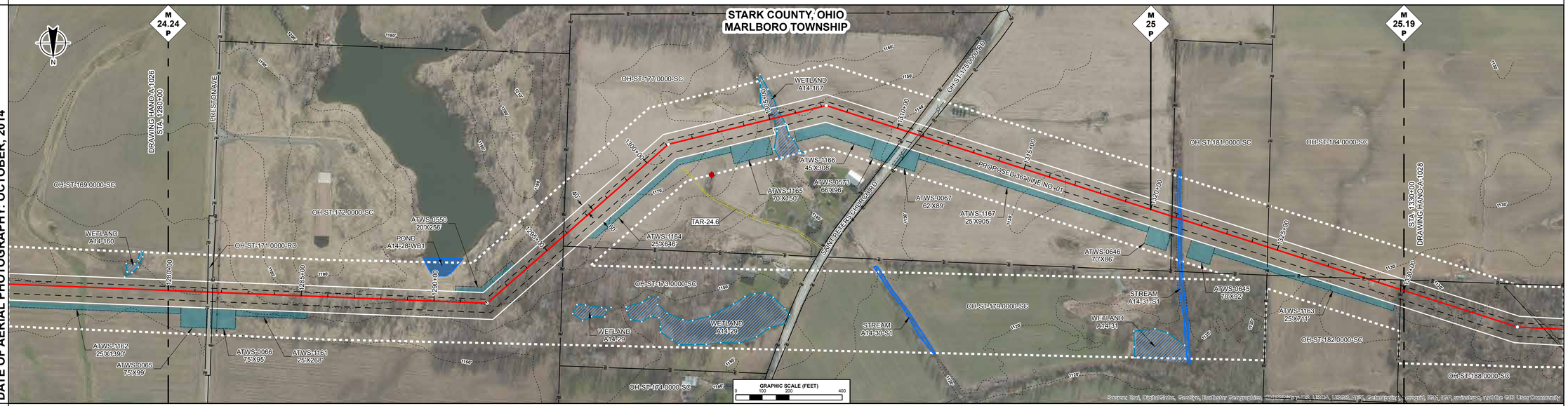
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (1200')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1304+97 WETLAND A14-167 ENTER
STA. 1305+53 WETLAND A14-167 EXIT

STA. 1320+94 STREAM TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK A14-31-S1 ENTER
STA. 1321+45 STREAM TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK A14-31-S1 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

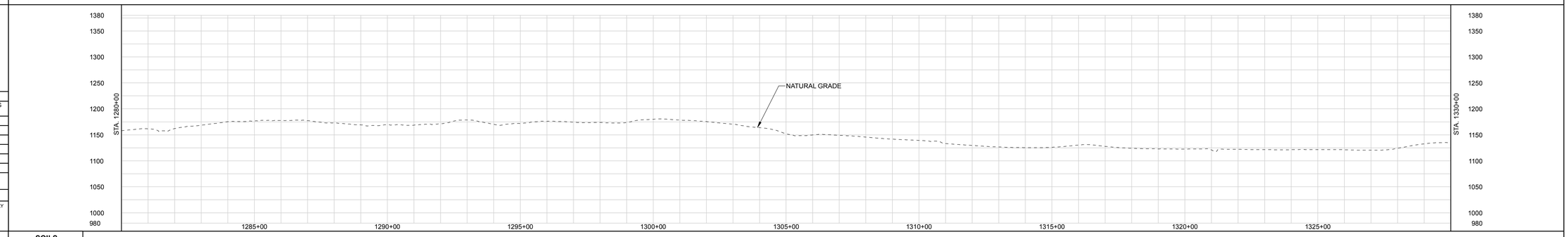
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\205_UPSTREAM_PIPELINE\205K_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 027 of 266.pdf PLOT TIME: 2015-04-22 09:37:32

DRIG.#

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
A			ISSUED FOR FERC
REVISIONS			

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 24.24 to M.P. 25.19
STA. 1280+00 to STA. 1330+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1027	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1330+00 | **OH-ST-188.0000-SC** 2333 FT. 141.4 RODS | 1352+33 | **OH-ST-187.0000-RD** 22 FT. 1.3 RODS | 1353+55 | **OH-ST-188.0000-SC** 1534 FT. 93.0 RODS | 1368+89 | **OH-ST-192.0000-SC** 309 FT. 18.7 RODS | 1371+98 | **OH-ST-195.0000-SC** 802 FT. 48.6 RODS | 1380+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1334+48 PI – 14°39'49" LT
STA. 1335+46 FOREIGN PL
STA. 1335+66 POWERLINE, CLEARANCE 15 FT.

STA. 1347+12 PI – 01°04'38" LT

STA. 1352+29 ROAD EDGE
STA. 1353+39 PAVED, MMEL RD CENTERLINE
STA. 1353+50 ROAD EDGE

STA. 1365+01 PI – 34°27'54" RT

STA. 1371+04 GAS WELL, 101 FT. RIGHT
STA. 1372+04 GAS WELL, 53 FT. RIGHT

STA. 1373+12 PI – 31°33'50" RT

STA. 1377+08 PI – 21°18'58" LT

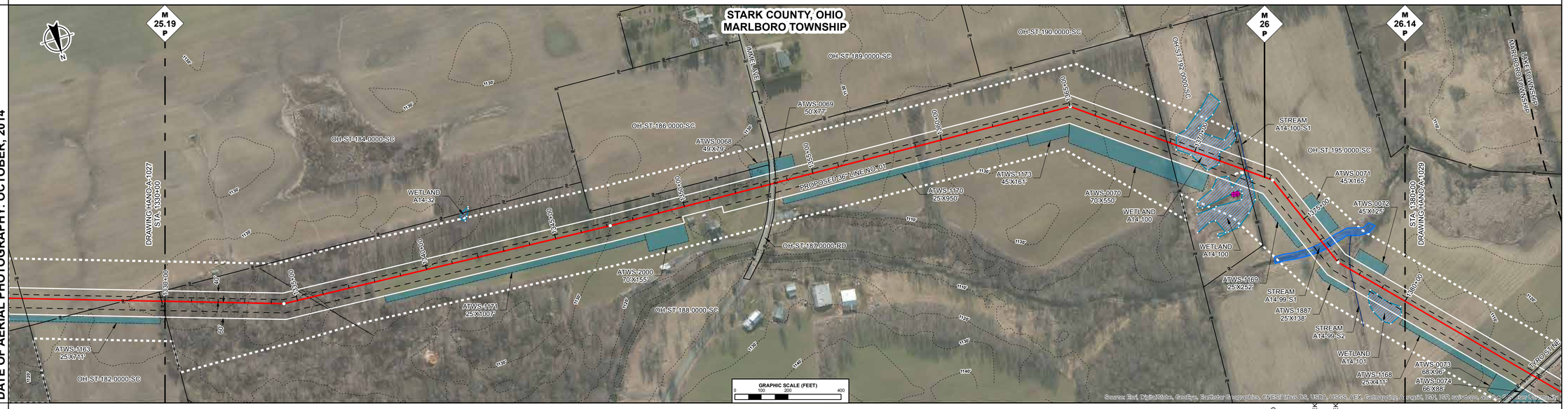
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE (T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1369+14 WETLAND A14-100 ENTER
STA. 1371+03 WETLAND A14-100 EXIT
STA. 1371+19 WETLAND A14-100 ENTER
STA. 1371+85 WETLAND A14-100 EXIT
STA. 1371+94 WETLAND A14-100 ENTER
STA. 1372+12 CENTERLINE OF STREAM A14-100-S1 TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK
STA. 1372+69 WETLAND A14-100 EXIT
STA. 1374+97 STREAM MIDDLE BRANCH NIMISHILLEN CREEK A14-99-S1 ENTER
STA. 1375+04 STREAM MIDDLE BRANCH NIMISHILLEN CREEK A14-99-S1 EXIT
STA. 1375+41 CENTERLINE OF STREAM A14-99-S2 TRIB TO MIDDLE BRANCH NIMISHILLEN CREEK
STA. 1376+66 WETLAND A14-101 ENTER
STA. 1380+00 WETLAND A14-101 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

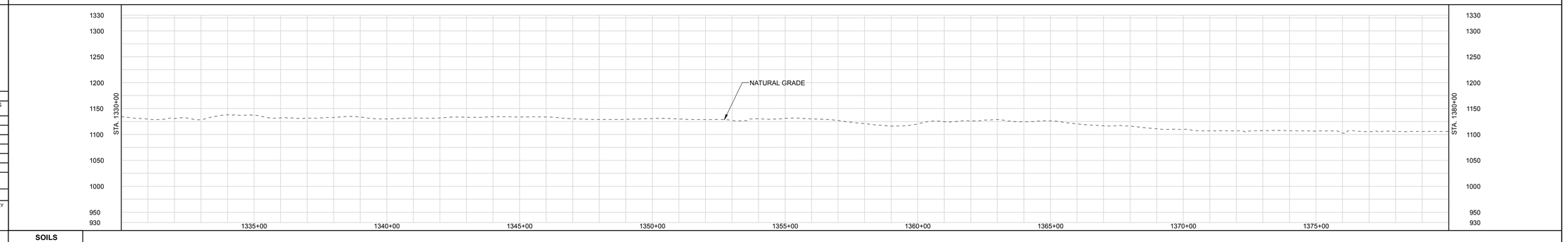
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 25.19 to M.P. 26.14
STA. 1330+00 to STA. 1380+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1028 | REV. A

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

I:\G.#\P-035_UPSTREAM_PIPELINE\CDSK_GIS\ToArcGis\NEXUS PROPOSED MAINLINE PIPELINE 035 of 250.prt - PLOT TIME: 2015-04-22 10:28:58

RIGHT-OF-WAY

TRACT NUMBERS

1380+00 | OH-ST-195.0000-SC 548 FT. 33.2 RODS | 1385+48 | OH-ST-196.0000-RD 26 FT. 1.6 RODS | 1385+74 | OH-ST-195.0000-SC 406 FT. 24.6 RODS | 1389+80 | OH-ST-197.0000-SC 1102 FT. 66.8 RODS | 1400+82 | OH-ST-198.0000-SC 90 FT. 5.5 RODS | 1401+72 | OH-ST-201.0000-SC 546 FT. 33.1 RODS | 1407+18 | OH-ST-200.0000-RD 30 FT. 1.8 RODS | 1407+48 | OH-ST-201.0000-SC 1424 FT. 86.3 RODS | 1421+72 | OH-ST-202.0000-SC 828 FT. 50.2 RODS | 1430+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1385+49 TOP BANK
STA. 1385+52 ROAD EDGE
STA. 1385+58 PAVED, TYRO ST
CENTERLINE
STA. 1385+70 ROAD EDGE
STA. 1385+71 TOP BANK
STA. 1385+73 WASH, DEPTH 0 FT. CENTERLINE
STA. 1385+77 TOP BANK

STA. 1389+23 MUNICIPALITY LINE

STA. 1399+07 TOP BANK
STA. 1399+12 WASH, DEPTH 0.6 FT. CENTERLINE
STA. 1399+17 TOP BANK

STA. 1400+45 TOP BANK
STA. 1400+51 WATER EDGE
STA. 1400+87 WATER EDGE
STA. 1400+98 TOP BANK

STA. 1405+45 PI – 28°00'45" LT

STA. 1407+15 FENCE
STA. 1407+21 ROAD EDGE
STA. 1407+31 PAVED, GANS ROAD, TYRO ST
STA. 1407+40 ROAD EDGE
STA. 1407+43 TOP BANK
STA. 1407+48 WASH, DEPTH 0 FT. CENTERLINE
STA. 1407+53 TOP BANK
STA. 1407+57 CENTERLINE
STA. 1409+46 PI – 15°07'25" LT

STA. 1415+72 OTHER WELL, 116 FT. RIGHT
STA. 1415+73 OTHER WELL, 98 FT. RIGHT
STA. 1416+90 PI – 04°24'58" LT

STA. 1421+08 PI – 08°51'28" RT

STA. 1421+81 FOREIGN PL

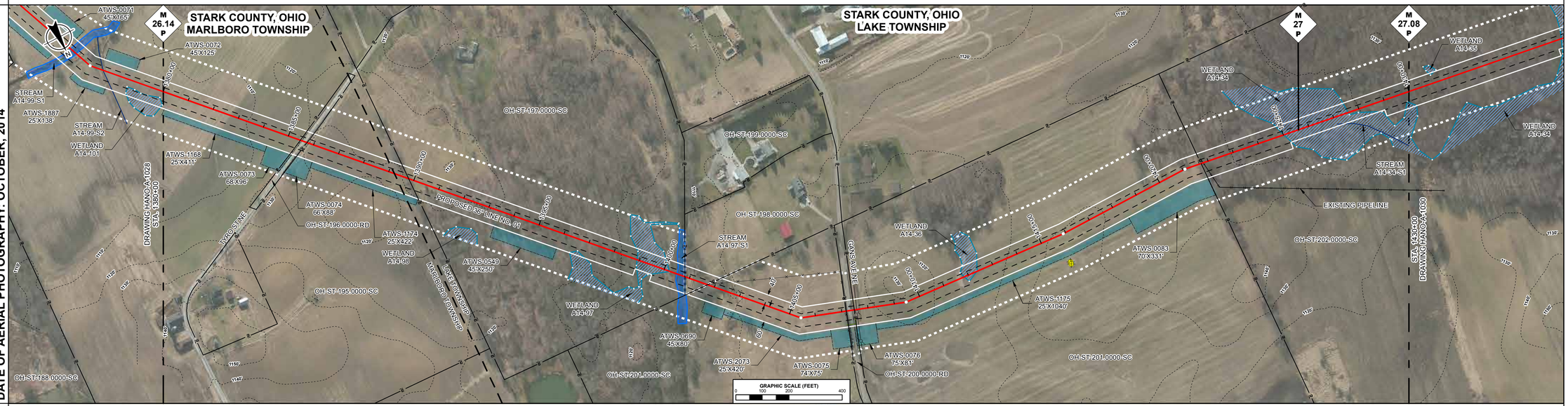
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1396+43 WETLAND A14-97 ENTER
STA. 1397+04 WETLAND A14-97 EXIT

STA. 1398+75 WETLAND A14-97 ENTER

STA. 1400+21 WETLAND A14-97 EXIT
STA. 1400+40 STREAM SWARTZ DITCH A14-97-S1 ENTER
STA. 1401+04 STREAM SWARTZ DITCH A14-97-S1 EXIT

STA. 1411+75 WETLAND A14-36 ENTER
STA. 1412+53 WETLAND A14-36 EXIT

STA. 1424+83 WETLAND A14-34 ENTER

STA. 1428+70 WETLAND A14-34 EXIT
STA. 1429+66 WETLAND A14-34 ENTER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

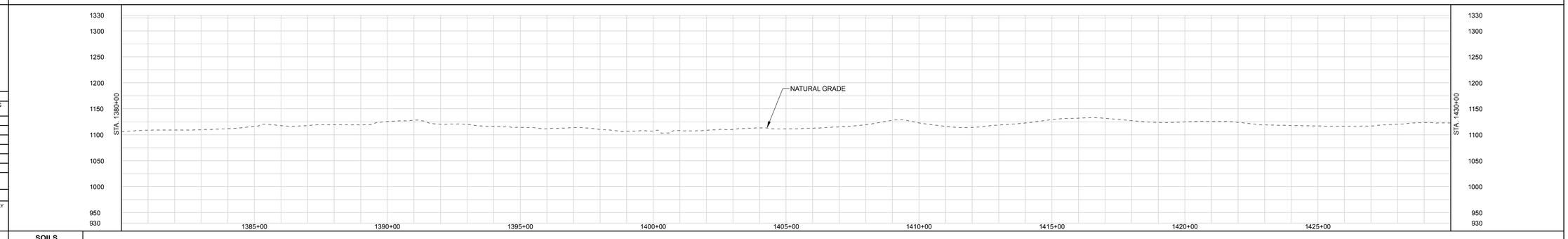
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY: / TITLE	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
		A			ISSUED FOR FERC			

REFERENCE DRAWINGS | REVISIONS | MATERIALS

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 26.14 to M.P. 27.08
STA. 1380+00 to STA. 1430+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1029 | REV. A

P:\265_UPSTREAM_PIPELINE\2696K_OSIT\pdf\main NEXUS PROPOSED MAINLINE PIPELINE 030 of 266.pdf - PLOT TIME: 2015-04-21 15:13:59

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

1430+00	OH-ST-202.0000-SC: 771 FT. / 46.7 RODS	1437+71	OH-ST-205.0000-SC: 452 FT. / 27.4 RODS	1442+23	OH-ST-206.0000-RR: 50 FT. / 3.0 RODS	1442+73	OH-ST-208.0000-SC: 615 FT. / 37.3 RODS	1448+88	OH-ST-210.0000-RD: 20 FT. / 1.2 RODS	1449+08	OH-ST-212.0000-SC: 2455 FT. / 148.8 RODS	1473+83	OH-ST-213.0000-SC: 217 FT. / 13.2 RODS	1475+80	OH-ST-215.0000-SC: 420 FT. / 25.5 RODS	1480+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1437+09 OTHER WELL, 139 FT. RIGHT

STA. 1439+27 PI – 06°00'35" LT

STA. 1442+34 RAILROAD TOE
STA. 1442+44 RAILROAD TOP
STA. 1442+48 RAILROAD CENTERLINE
STA. 1442+53 RAILROAD TOP
STA. 1442+61 RAILROAD TOE

STA. 1448+87 ROAD EDGE
STA. 1448+99 PAVED, NEW BOSTON AVE CENTERLINE
STA. 1449+10 ROAD EDGE

STA. 1460+37 PI – 24°56'38" RT

STA. 1470+63 PI – 15°06'30" LT

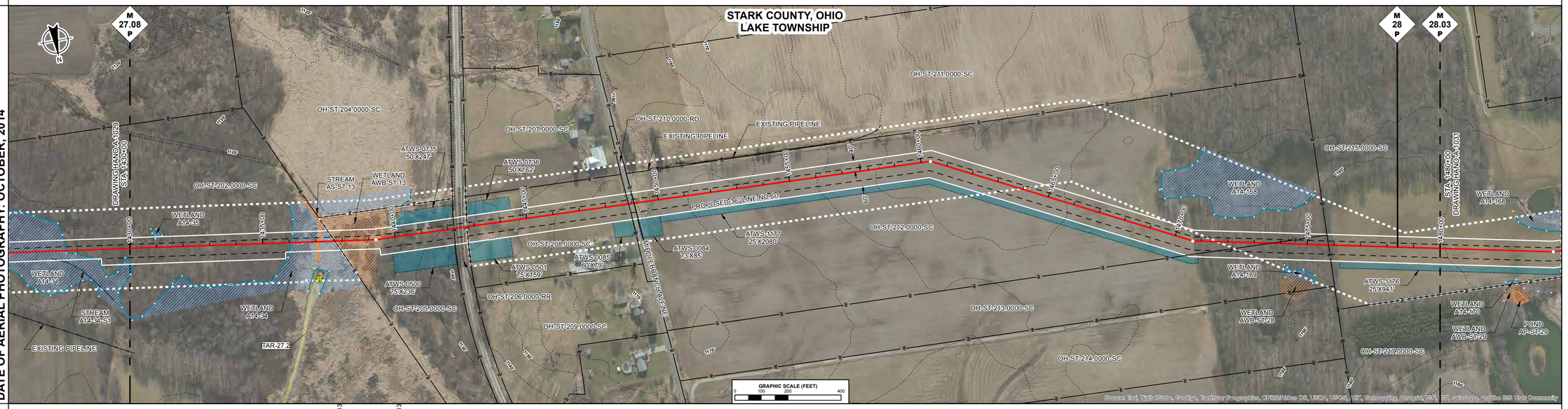
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1430+10 WETLAND A14-34 ENTER
STA. 1430+83 WETLAND A14-35 ENTER
STA. 1431+13 WETLAND A14-35 EXIT

STA. 1435+98 WETLAND A14-34 ENTER
STA. 1436+05 STREAM TRIB TO SWARTS DITCH AS-ST-13 ENTER
STA. 1436+72 STREAM TRIB TO SWARTS DITCH AS-ST-13 EXIT
STA. 1437+46 WETLAND AWB-ST-13 ENTER
STA. 1437+93 WETLAND A14-34 EXIT

STA. 1440+31 WETLAND AWB-ST-13 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (F)
- SLOPE BREAKERS
- TRENCH PLUG

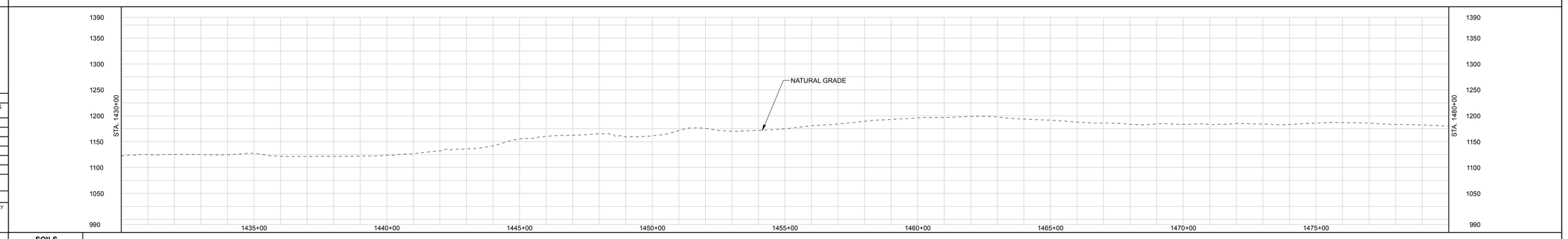
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\295_UPSTREAM_PIPELINE\295K_GIS\ArcMap\NEXUS PROPOSED MAINLINE PIPELINE 030 \#286.mxd - PLOT TIME: 2015-04-21 15:20:10

I.G.#

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
A			ISSUED FOR FERC
REVISIONS			

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

	BID		CONSTRUCTION	
	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 27.08 to M.P. 28.03
STA. 1430+00 to STA. 1480+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1030	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1480+00 | OH-ST-215.0000-SC: 842 FT. / 51.0 RODS | 1488+42 | OH-ST-216.0000-SC: 355 FT. / 21.5 RODS | 1491+97 | OH-ST-218.0000-SC: 711 FT. / 43.1 RODS | 1499+08 | OH-ST-219.0000-SC: 355 FT. / 21.5 RODS | 1502+63 | OH-ST-222.0000-SC: 544 FT. / 33.0 RODS | 1508+07 | OH-ST-225.0000-RD: 30 FT. / 1.8 RODS | 1508+37 | OH-ST-228.0000-SC: 2163 FT. / 131.1 RODS | 1530+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1484+27 PI – 09°49'57" LT

STA. 1507+95 POWERLINE, CLEARANCE 20 FT.
STA. 1508+06 TOP BANK
STA. 1508+07 ROAD EDGE
STA. 1508+27 PAVE. KENT AVE CENTERLINE
STA. 1508+33 ROAD EDGE
STA. 1508+35 TOP BANK
STA. 1508+40 POWERLINE, CLEARANCE 30 FT.
STA. 1511+47 PI – 49°40'27" RT
STA. 1511+58 PI – 49°40'38" LT

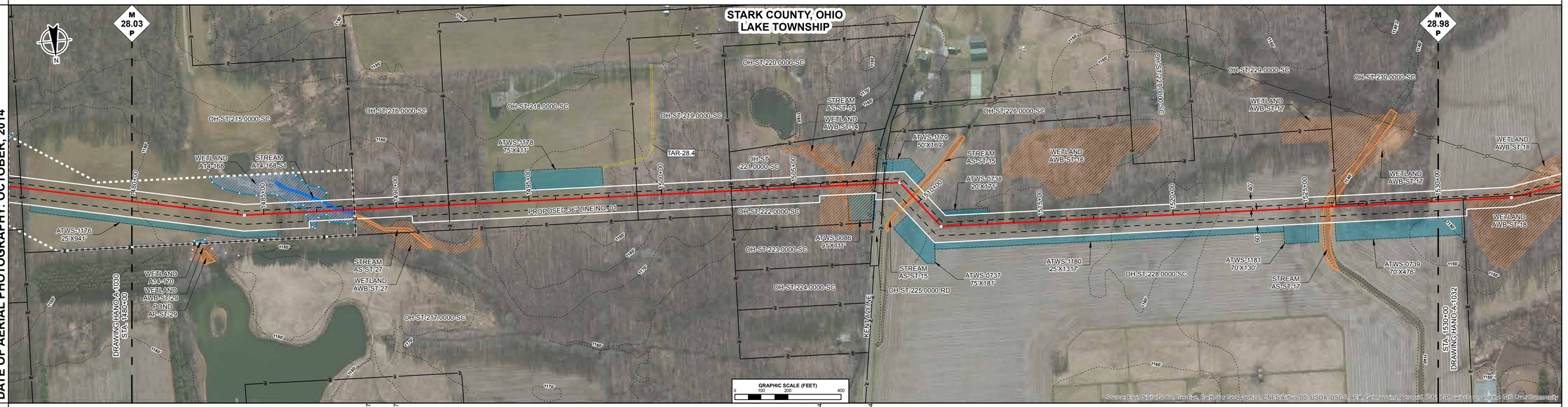
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1485+97 WETLAND A14-168 ENTER
STA. 1486+10 STREAM TRIB TO NIMISHILLEN CREEK A14-168-S1 ENTER
STA. 1486+30 WETLAND A14-168 ENTER
STA. 1487+23 WETLAND A14-168 EXIT
STA. 1488+40 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-27 ENTER
STA. 1488+62 STREAM TRIB TO NIMISHILLEN CREEK A14-168-S1 EXIT
STA. 1488+67 WETLAND AWB-ST-27 ENTER
STA. 1488+42 WETLAND A14-168 EXIT
STA. 1488+67 WETLAND AWB-ST-27 EXIT
STA. 1489+84 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-27 EXIT
STA. 1506+16 WETLAND AWB-ST-14 ENTER
STA. 1506+79 CENTERLINE OF STREAM AS-ST-14 TRIB TO NIMISHILLEN CREEK
STA. 1508+05 WETLAND AWB-ST-14 EXIT
STA. 1509+57 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-15 ENTER
STA. 1509+63 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-15 EXIT
STA. 1525+63 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-17 ENTER
STA. 1526+26 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-17 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (F)
- SLOPE BREAKERS (○)
- TRENCH PLUG (▲)

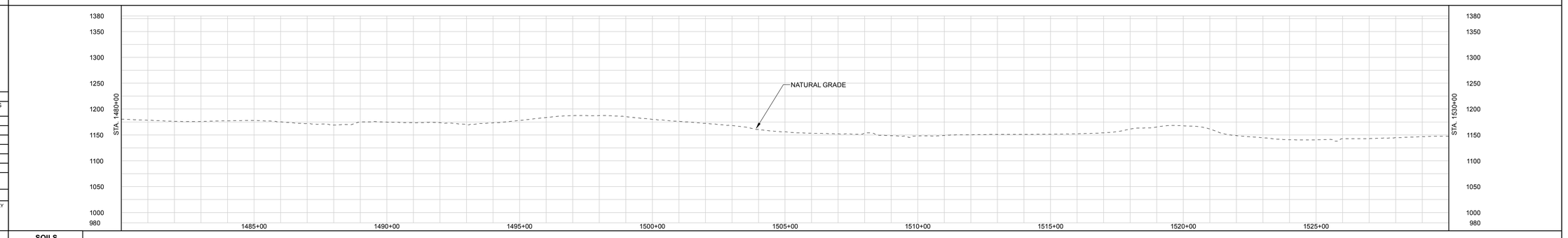
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\295_UPSTREAM_PIPELINE\295K_GIS\arcfiles\ NEXUS PROPOSED MAINLINE PIPELINE 031 of 266.pdf - FLOT TIME: 2015-04-22 13:26:54

IG.#

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
A			ISSUED FOR FERC
REVISIONS			

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 28.03 to M.P. 28.98
STA. 1480+00 to STA. 1530+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1031	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1530+00	OH-ST-228.0000-SC	1530+94	OH-ST-231.0000-SC	1533+14	OH-ST-230.0000-SC	1538+95	OH-ST-235.0000-SC	1553+03	OH-ST-239.0000-SC	1557+97	OH-ST-241.0000-RD	1558+10	OH-ST-243.0000-SC	1579+16	OH-ST-249.0000-SC	1580+00
	94 FT. 5.7 RODS		220 FT. 13.3 RODS		581 FT. 35.2 RODS		1408 FT. 85.3 RODS		458 FT. 27.8 RODS		49 FT. 3.0 RODS		2106 FT. 127.6 RODS		84 FT. 5.1 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1532+76 PI – 11°29'17" LT

STA. 1535+02 POWERLINE (LIDAR)

STA. 1537+07 PI – 32°34'03" RT

STA. 1539+27 TRAIL (LIDAR)

STA. 1539+33 TRAIL (LIDAR) EDGE

STA. 1545+40 PI – 00°03'56" LT

STA. 1553+02 FENCE
STA. 1553+17 DITCH, DEPTH 0.2 FT, CENTERLINE

STA. 1557+55 POWERLINE, CENTERLINE
STA. 1557+74 DITCH, 2.0 FT
STA. 1557+86 PAVED, MARKET AVE CENTERLINE
STA. 1557+98 ROAD EDGE

STA. 1571+25 PI – 00°03'32" RT

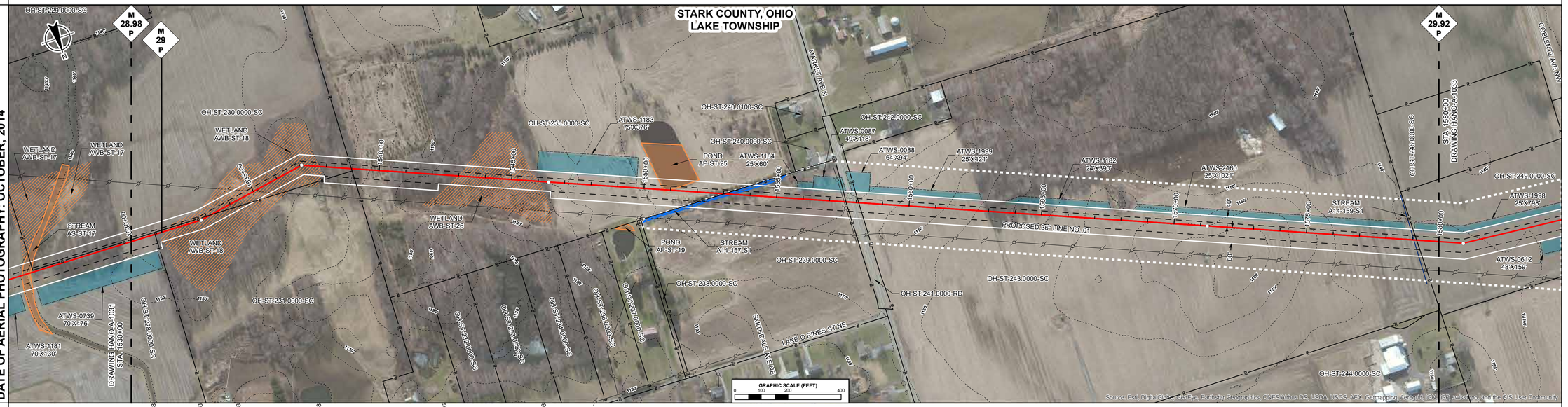
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE (T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1531+06 WETLAND AWB-ST-18 ENTER

STA. 1532+91 WETLAND AWB-ST-18 ENTER

STA. 1534+54 WETLAND AWB-ST-18 EXIT

STA. 1537+89 WETLAND AWB-ST-18 EXIT

STA. 1542+62 WETLAND AWB-ST-26 ENTER

STA. 1546+38 WETLAND AWB-ST-26 EXIT

STA. 1550+50 POND TRIB TO NIMISHILLEN CREEK AP-ST-25 ENTER

STA. 1551+54 STREAM TRIB TO NIMISHILLEN CREEK A14-157-S1 ENTER

STA. 1551+90 POND TRIB TO NIMISHILLEN CREEK AP-ST-25 EXIT

STA. 1554+42 STREAM TRIB TO NIMISHILLEN CREEK A14-157-S1 EXIT

STA. 1579+05 CENTERLINE OF STREAM A14-159-S1 TRIB TO NIMISHILLEN CREEK

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (F)
- SLOPE BREAKERS (O)
- TRENCH PLUG (▲)

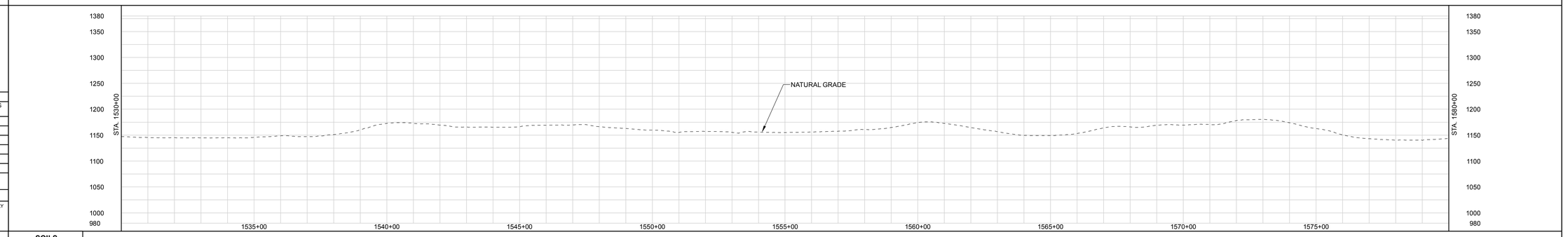
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\29S_UPSTREAM_PIPELINE\29SK_GIS\ArcObjects\NEXUS PROPOSED MAINLINE PIPELINE 032.of.266.pdf - PLOT TIME: 2015-04-21 14:28:25

IG.#

DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV	DSN	CK	DESCRIPTION
A			ISSUED FOR FERC
REVISIONS			

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 28.98 to M.P. 29.92
STA. 1530+00 to STA. 1580+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1032	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1580+00 | OH-ST-249.0000-SC: 585 FT. / 35.5 RODS | 1585+85 | OH-ST-252.0000-RD: 33 FT. / 2.0 RODS | 1588+18 | OH-ST-253.0000-SC: 1164 FT. / 70.5 RODS | 1597+82 | OH-ST-255.0000-SC: 1698 FT. / 102.9 RODS | 1614+80 | OH-ST-260.0000-SC: 1520 FT. / 92.1 RODS | 1630+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1580+92 PI – 17°19'43" LT

STA. 1586+18 WELL .93 FT. RIGHT
STA. 1585+90 ROAD EDGE
STA. 1586+00 PAVED, CONCRETE EDGE CENTERLINE
STA. 1586+10 ROAD EDGE
STA. 1586+44 P.I. 90°00'27" RT
STA. 1586+67 WATER EDGE
STA. 1586+76 TOP BANK
STA. 1586+87 WATER EDGE
STA. 1587+12 DITCH, DEPTH 1.0 FT. CENTERLINE
STA. 1586+97 WATER EDGE
STA. 1587+05 TOP BANK

STA. 1591+51 PI – 18°50'41" LT

STA. 1603+34 PI – 12°32'48" LT

STA. 1615+45 PI – 27°23'36" RT

STA. 1622+79 FENCE
STA. 1623+05 TOP BANK
STA. 1623+15 DITCH, DEPTH 0.3 FT. CENTERLINE
STA. 1623+17 TOP BANK
STA. 1623+63 ROAD EDGE
STA. 1623+28 GRAVEL, NONE CENTERLINE
STA. 1623+34 ROAD EDGE

STA. 1626+86 TOWER, 84 FT. RIGHT

STA. 1629+47 ROAD EDGE
STA. 1629+54 PAVED, NONE CENTERLINE
STA. 1629+60 ROAD EDGE

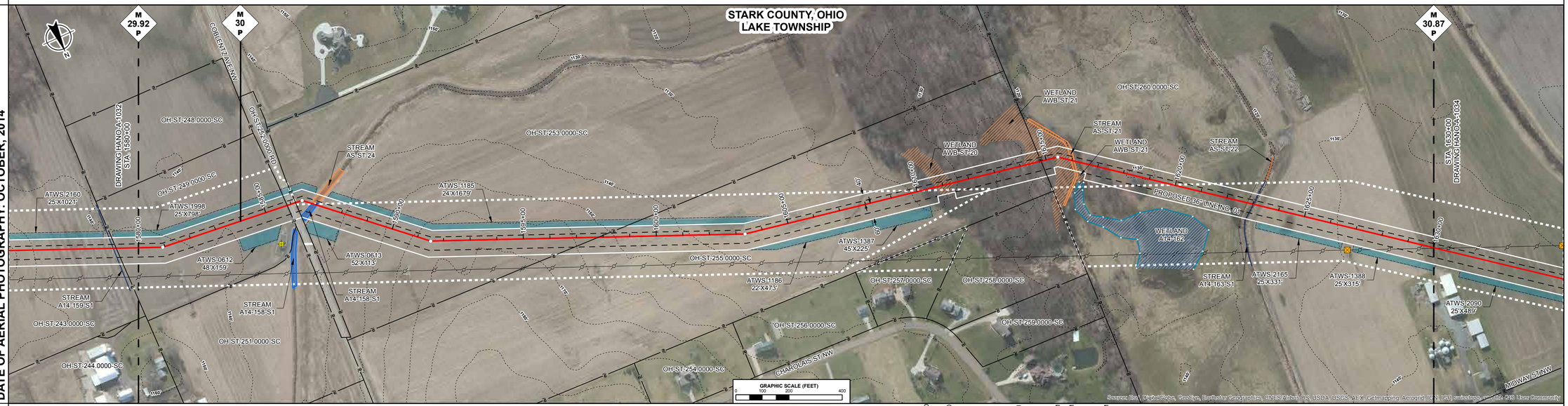
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1586+23 STREAM TRIB TO NIMISHILLEN CREEK A14-158-S1 ENTER
STA. 1586+94 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-24 ENTER
STA. 1587+08 STREAM TRIB TO NIMISHILLEN CREEK A14-158-S1 EXIT
STA. 1587+17 STREAM TRIB TO NIMISHILLEN CREEK AS-ST-24 EXIT

STA. 1610+54 WETLAND AWB-ST-20 ENTER
STA. 1611+41 WETLAND AWB-ST-20 EXIT

STA. 1614+11 WETLAND AWB-ST-21 ENTER
STA. 1615+75 STREAM TRIB TO WEST BRANCH NIMISHILLEN CREEK AS-ST-21 ENTER
STA. 1616+14 WETLAND AWB-ST-21 EXIT
STA. 1616+17 WETLAND AWB-ST-21 EXIT
STA. 1616+27 STREAM TRIB TO WEST BRANCH NIMISHILLEN CREEK AS-ST-21 EXIT
STA. 1616+48 WETLAND AWB-ST-21 EXIT

STA. 1623+02 CENTERLINE OF STREAM A14-163-S1 TRIB TO WEST BRANCH NIMISHILLEN CREEK

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

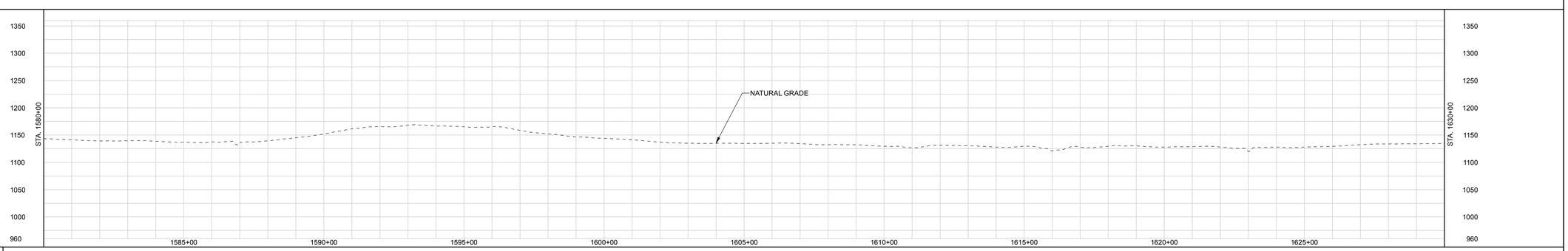
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

P:\265_UPSTREAM_PIPELINE\26NK_GIS\TurboRoute\ NEXUS PROPOSED MAINLINE PIPELINE 033.vf 266.pdf - PLOT TIME: 2015-04-16 08:58:59

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 29.92 to M.P. 30.87
STA. 1580+00 to STA. 1630+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1033	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1630+00	OH-ST-260.0000-SC: 994 FT. / 60.2 RODS	1639+94	OH-ST-262.0000-RD: 49 FT. / 3.0 RODS	1640+43	OH-ST-261.0000-SC: 675 FT. / 40.9 RODS	1647+18	OH-ST-264.0000-RD: 40 FT. / 2.4 RODS	1647+58	OH-ST-270.0000-SC: 550 FT. / 33.3 RODS	1653+08	OH-ST-294.0000-SC: 2131 FT. / 129.2 RODS	1674+39	OH-ST-325.0000-RD: 561 FT. / 34.0 RODS	1680+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

SURVEY DATA

STA. 1630+10 POWERLINE, CLEARANCE 42 FT.
STA. 1630+83 BUILDING, 119 FT. RIGHT
STA. 1634+69 TOWER, 122 FT. LEFT
STA. 1639+53 TOP BANK
STA. 1639+79 DITCH DEPTH 1.0 FT. CENTERLINE
STA. 1639+97 TOP BANK
STA. 1640+16 ROAD EDGE
STA. 1640+26 PAVED, MIDWAY ST CENTERLINE
STA. 1640+36 ROAD EDGE
STA. 1640+52 POWERLINE, CLEARANCE 19 FT.
STA. 1645+18 PI – 36°00'49" LT
STA. 1647+21 POWERLINE, CLEARANCE 19 FT.
STA. 1647+26 ROAD EDGE
STA. 1647+36 PAVED, WAGNER AVE CENTERLINE
STA. 1647+46 ROAD EDGE
STA. 1652+84 TOP BANK
STA. 1653+11 CREEK, DEPTH 0.5 FT. CENTERLINE
STA. 1653+27 TOP BANK
STA. 1653+64 TOWER, 89 FT. LEFT
STA. 1661+61 TOWER, 92 FT. LEFT
STA. 1669+88 TOWER, 95 FT. LEFT
STA. 1670+29 PI – 12°42'37" LT
STA. 1672+01 PI – 11°15'26" RT
STA. 1674+32 PI – P.O.T.
STA. 1674+98 ROAD EDGE
STA. 1675+13 UNDERGROUND WATER
STA. 1675+25 UNDERGROUND SAN SEWER
STA. 1675+33 UNDERGROUND FIBER
STA. 1675+36 UNDERGROUND POWER
STA. 1675+38 UNDERGROUND TELEPHONE
STA. 1675+39 UNDERGROUND GAS P.L.
STA. 1675+71 UNDERGROUND WATER
STA. 1676+94 UNDERGROUND GAS P.L.
STA. 1677+17 UNDERGROUND SAN SEWER
STA. 1677+54 UNDERGROUND WATER
STA. 1677+74 TOWER, 51 FT. LEFT
STA. 1678+85 UNDERGROUND FIBER
STA. 1679+34 UNDERGROUND FIBER
STA. 1679+36 UNDERGROUND POWER

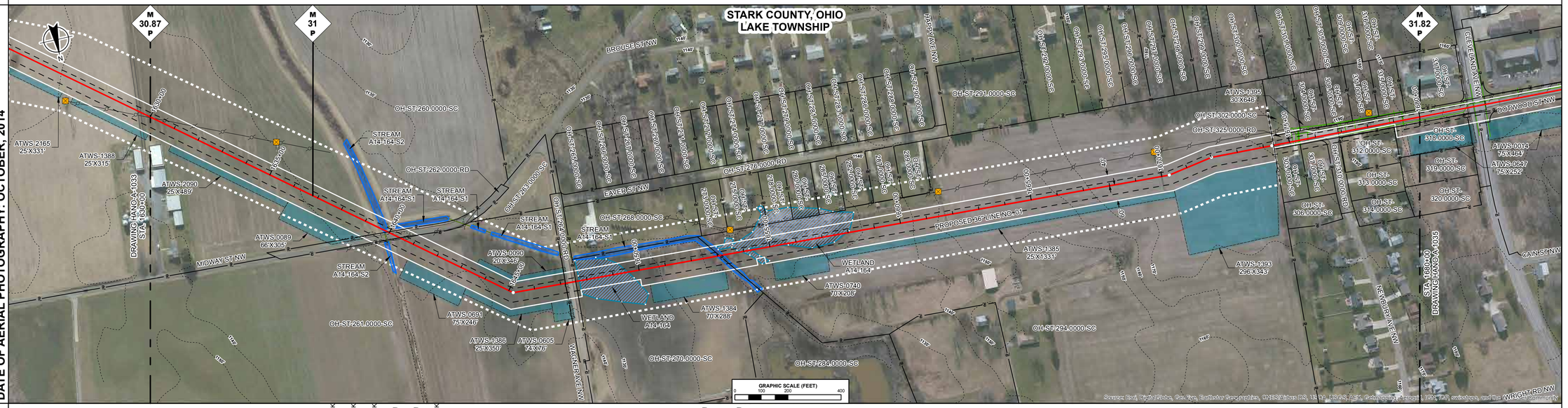
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE / FIRE HYDRANT
- WELL: GAS / WATER / OIL / OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

ENVIRONMENTAL DATA

STA. 1639+23 STREAM WEST BRANCH NIMISHILLEN CREEK A14-164-S2 ENTER
STA. 1639+98 STREAM WEST BRANCH NIMISHILLEN CREEK A14-164-S2 EXIT
STA. 1640+26 STREAM WEST BRANCH NIMISHILLEN CREEK A14-164-S2 ENTER
STA. 1640+36 STREAM TRIB TO WEST BRANCH NIMISHILLEN CREEK A14-164-S1 ENTER
STA. 1640+52 STREAM TRIB TO WEST BRANCH NIMISHILLEN CREEK A14-164-S1 EXIT
STA. 1640+83 STREAM WEST BRANCH NIMISHILLEN CREEK A14-164-S2 EXIT
STA. 1647+70 WETLAND A14-164 ENTER
STA. 1649+83 WETLAND A14-164 EXIT
STA. 1652+62 STREAM TRIB TO WEST BRANCH NIMISHILLEN CREEK A14-164-S1 ENTER
STA. 1653+99 WETLAND A14-164 ENTER
STA. 1658+05 STREAM TRIB TO WEST BRANCH NIMISHILLEN CREEK A14-164-S1 EXIT
STA. 1658+22 WETLAND A14-164 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

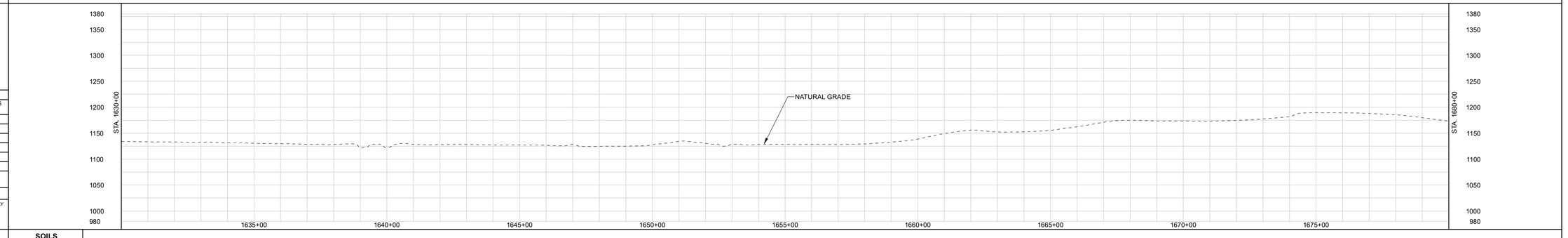
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
A			ISSUED FOR FERC			

REFERENCE DRAWINGS | REVISIONS | MATERIALS

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 30.87 to M.P. 31.82
STA. 1630+00 to STA. 1680+00
ALIGNMENT SHEET

LOC. STARK COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1034	REV. A

I.G.#

P:\295_UPSTREAM_PIPELINE\E295K_GIS\TurboRoute NEXUS PROPOSED MAINLINE PIPELINE ISH of 295.pdf - PLOT TIME: 2015-04-22 09:34:33

RIGHT-OF-WAY

TRACT NUMBERS

| 1680+00 | OH-ST-325.0000-RD | 1860 FT. 112.7 RODS | 1698+60 | OH-ST-364.0000-RD | 60 FT. 3.6 RODS | 1699+20 | OH-ST-366.0000-SC | 115 FT. 7.0 RODS | 1700+35 | OH-ST-365.0000-SC | 96 FT. 5.8 RODS | 1701+31 | OH-ST-370.0000-SC | 103 FT. 6.2 RODS | 1702+34 | OH-ST-373.0000-SC | 103 FT. 6.2 RODS | 1703+37 | OH-ST-376.0000-SC | 103 FT. 6.2 RODS | 1704+40 | OH-ST-379.0000-SC | 103 FT. 6.2 RODS | 1705+43 | OH-ST-382.0000-SC | 103 FT. 6.2 RODS | 1706+46 | OH-ST-386.0000-SC | 103 FT. 6.2 RODS | 1707+49 | OH-ST-390.0000-SC | 107 FT. 6.5 RODS | 1708+56 | OH-ST-393.0000-RD | 50 FT. 3.0 RODS | 1709+06 | OH-ST-394.0000-SC | 103 FT. 6.2 RODS | 1710+09 | OH-ST-397.0000-SC | 103 FT. 6.2 RODS | 1711+12 | OH-ST-399.0000-SC | 103 FT. 6.2 RODS | 1712+15 | OH-ST-401.0000-SC | 103 FT. 6.2 RODS | 1713+18 | OH-ST-403.0000-SC | 103 FT. 6.2 RODS | 1714+21 | OH-ST-405.0000-SC | 99 FT. 6.0 RODS | 1715+20 | OH-ST-408.0000-SC | 100 FT. 6.1 RODS | 1716+20 | OH-ST-410.0000-SC | 124 FT. 7.5 RODS | 1717+44 | OH-ST-413.0000-RD | 43 FT. 2.6 RODS | 1717+87 | OH-ST-416.0000-SC | 576 FT. 34.9 RODS | 1723+63 | OH-ST-418.0000-SC | 426 FT. 25.8 RODS | 1727+89 |
|---|---|---

RIGHT-OF-WAY

TRACT NUMBERS

1730+00	OH-SU-003.0000-SC	1732+57	OH-SU-002.0000-RR	1733+21	OH-SU-004.0000-SC	1744+91	OH-SU-008.0000-SC	1758+73	OH-SU-016.0000-RD	1759+41	OH-SU-021.0000-SC	1769+63	OH-SU-025.0000-SC	1772+98	OH-SU-028.0000-SC	1780+00
	257 FT. 15.6 RODS		64 FT. 3.9 RODS		1170 FT. 70.9 RODS		1382 FT. 83.8 RODS		68 FT. 4.1 RODS		1022 FT. 61.9 RODS		335 FT. 20.3 RODS		702 FT. 42.5 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1732+61 FENCE
STA. 1732+81 RAILROAD TOE
STA. 1732+89 RAILROAD TOP
STA. 1732+94 RAILROAD CENTERLINE
STA. 1732+99 RAILROAD TOP
STA. 1733+06 RAILROAD TOE

STA. 1759+12 MAYFAIR RD (SCALED) CENTERLINE
STA. 1759+40 POWERLINE CLEARANCE 16 FT.

STA. 1760+47 PI – 33°15'34" RT
STA. 1761+04 POWERLINE CLEARANCE 47 FT.
STA. 1761+51 POWERLINE CLEARANCE 47 FT.
STA. 1762+00 POWERLINE CLEARANCE 47 FT.

STA. 1763+14 PI – 33°04'12" LT
STA. 1763+56 VALVE FENCE
STA. 1764+01 FENCE
STA. 1764+06 VALVE FENCE

STA. 1768+21 TOWER, 90 FT. LEFT
STA. 1768+21 PI – 00°04'26" LT

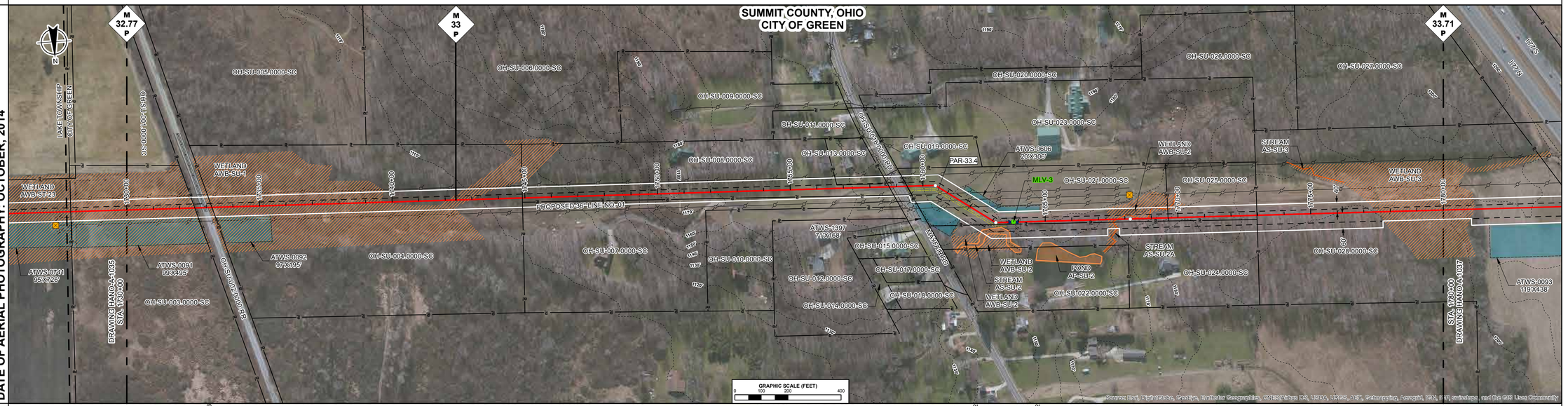
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1732+92 WETLAND AWB-SU-1 ENTER
STA. 1734+01 WETLAND AWB-ST-23 EXIT

STA. 1744+08 WETLAND AWB-SU-1 EXIT

STA. 1762+82 WETLAND AWB-SU-2 ENTER
STA. 1762+85 STREAM TRIB TO TUSCARAWAS RIVER-AS-SU-2 ENTER
STA. 1762+86 WETLAND AWB-SU-2 EXIT
STA. 1763+10 WETLAND AWB-SU-2 ENTER
STA. 1763+52 WETLAND AWB-SU-2 EXIT
STA. 1763+67 STREAM TRIB TO TUSCARAWAS RIVER AS-SU-2 EXIT

STA. 1767+32 WETLAND AWB-SU-2 ENTER
STA. 1767+37 CENTERLINE OF STREAM AS-SU-2A TRIB TO TUSCARAWAS RIVER

STA. 1770+13 WETLAND AWB-SU-2 EXIT

STA. 1777+12 WETLAND AWB-SU-3 ENTER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

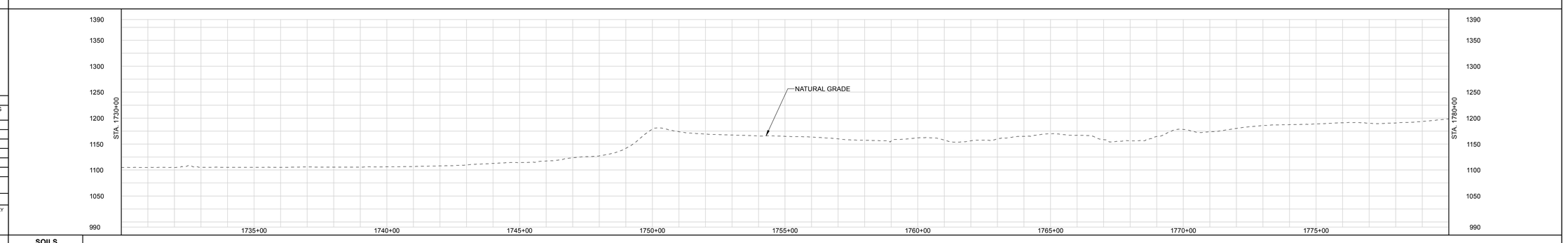
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION
REFERENCE DRAWINGS		A			ISSUED FOR FERC
REVISIONS					

ITEM NO.	DESCRIPTION	LN. FT.
MATERIALS		

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 32.77 to M.P. 33.71
STA. 1730+00 to STA. 1780+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1036	REV. A

P:\265_UPSTREAM_PIPELINE\299K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 036.mxd PLOT TIME: 2015-04-21 15:32:11

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RIGHT-OF-WAY

TRACT NUMBERS

1780+00	OH-SU-028.0000-SC 506 FT. 30.7 RODS	1785+06	OH-SU-029.0000-RD 377 FT. 22.8 RODS	1788+83	OH-SU-031.0000-SC 557 FT. 33.8 RODS	1794+40	OH-SU-034.0000-SC 1332 FT. 80.7 RODS	1807+72	OH-SU-035.0000-SC 284 FT. 17.2 RODS	1810+56	OH-SU-036.0000-SC 1327 FT. 80.4 RODS	1823+83	OH-SU-048.0000-SC 305 FT. 18.5 RODS	1828+88	OH-SU-047.0000-SC 189 FT. 11.5 RODS	1828+77	OH-SU-049.0000-RD 101 FT. 6.1 RODS	1829+78	OH-SU-054.0000-SC 22 FT. 1.3 RODS	1830+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1784+83 PI – 00°00'07" LT
STA. 1785+28 FENCE
STA. 1786+17 ROAD EDGE
STA. 1786+41 177 N (SCALED)
STA. 1787+41 CENTERLINE
STA. 1788+88 ROAD EDGE
STA. 1787+33 ROAD EDGE
STA. 1787+57 177 S (SCALED)
STA. 1788+14 CENTERLINE
STA. 1788+44 ROAD EDGE
STA. 1805+68 PI – 00°08'11" RT
STA. 1814+62 PI – 05°12'21" LT
STA. 1825+17 PI – 10°02'25" RT
STA. 1829+03 ROAD (LIDAR) EDGE
STA. 1829+28 CYNTHIA ROAD CENTERLINE (SCALED)
STA. 1829+37 FENCE
STA. 1829+52 ROAD (LIDAR) EDGE

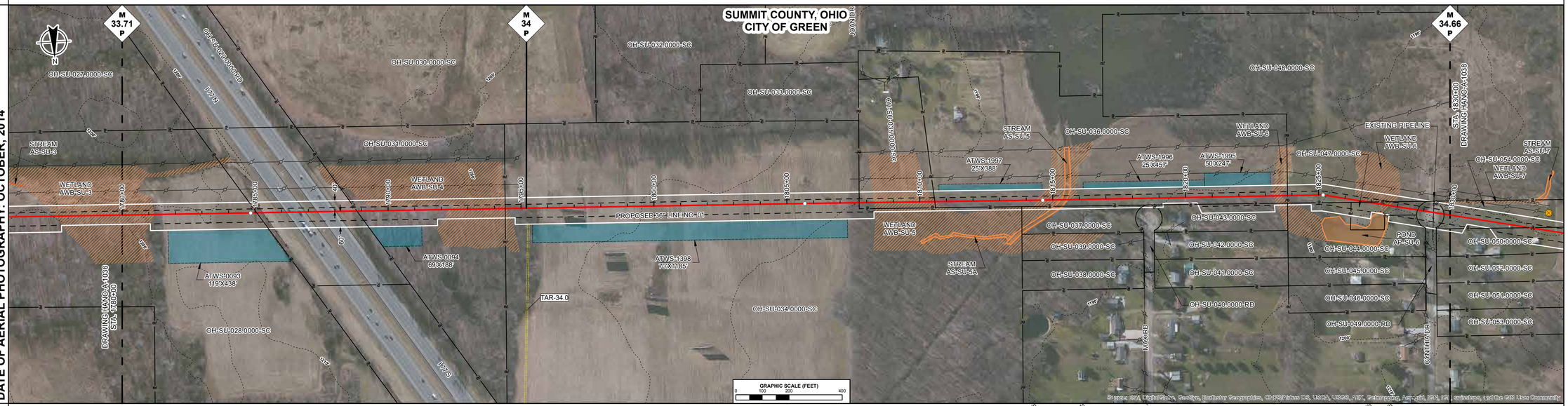
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
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- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1781+20 WETLAND AWB-SU-3 EXIT
STA. 1788+86 WETLAND AWB-SU-4 ENTER
STA. 1794+63 WETLAND AWB-SU-4 EXIT
STA. 1808+23 WETLAND AWB-SU-5 ENTER
STA. 1811+23 WETLAND AWB-SU-5 EXIT
STA. 1812+36 WETLAND AWB-SU-5 ENTER
STA. 1814+93 STREAM TRIB TO TUSCARAWAS RIVER AS-SU-5 ENTER
STA. 1815+71 WETLAND AWB-SU-5 EXIT
STA. 1815+45 WETLAND AWB-SU-5 EXIT
STA. 1815+66 STREAM TRIB TO TUSCARAWAS RIVER AS-SU-5 EXIT
STA. 1816+96 WETLAND AWB-SU-5 EXIT
STA. 1823+22 WETLAND AWB-SU-6 ENTER
STA. 1824+13 WETLAND AWB-SU-6 EXIT
STA. 1826+32 WETLAND AWB-SU-6 ENTER
STA. 1827+10 POND TRIB TO TUSCARAWAS RIVER AP-SU-6 ENTER
STA. 1827+70 POND TRIB TO TUSCARAWAS RIVER AP-SU-6 EXIT
STA. 1828+03 WETLAND AWB-SU-6 EXIT
STA. 1828+66 WETLAND AWB-SU-7 ENTER
STA. 1829+87 WETLAND AWB-SU-7 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

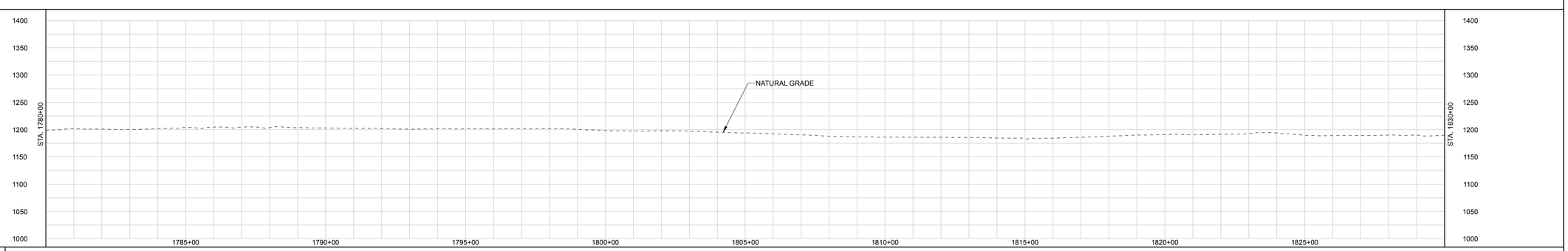
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

P:\265_UPSTREAM_PIPELINE\299K GIS\ToBeSaan NEXUS PROPOSED MAINLINE PIPELINE 037 of 266.pdf PLOT TIME: 2015-04-21 15:35:23

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 33.71 to M.P. 34.66
STA. 1780+00 to STA. 1830+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1037	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1830+00	OH-SU-054.0000-SC	1833+04	OH-SU-050.0000-SC	1834+45	OH-SU-059.0000-SC	1838+38	OH-SU-057.0000-SC	1838+68	OH-SU-062.0000-RD	1837+21	OH-SU-067.0000-SC	1842+29	OH-SU-074.0000-RD	1842+79	OH-SU-075.0000-SC	1844+11	OH-SU-080.0000-SC	1845+11	OH-SU-082.0000-SC	1845+19	OH-SU-077.0000-SC	1845+22	OH-SU-087.0000-SC	1854+91	OH-SU-094.0000-RD	1855+48	OH-SU-096.0000-SC	1859+58	OH-SU-098.0000-SC	1868+26	OH-SU-105.0000-SC	1869+36	OH-SU-106.0000-SC	1870+00
	304 FT.		141 FT.		193 FT.		30 FT.		53 FT.		508 FT.		50 FT.		132 FT.		100 FT.		8 FT.		3 FT.		969 FT.		57 FT.		410 FT.		868 FT.		110 FT.		64 FT.	
	18.4 RODS		8.5 RODS		11.7 RODS		1.8 RODS		3.2 RODS		30.8 RODS		3.0 RODS		8.0 RODS		6.1 RODS		0.5 RODS		0.2 RODS		58.7 RODS		3.5 RODS		24.8 RODS		52.6 RODS		6.7 RODS		3.9 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1833+66 TOWER, 66 FT. LEFT

STA. 1838+91 HONEYMOON ROAD (SCALED) CENTERLINE

STA. 1842+52 TREEVIEW DR (SCALED) CENTERLINE

STA. 1847+68 BUILDING, 80 FT. RIGHT

STA. 1852+64 TOWER, 66 FT. LEFT

STA. 1854+92 PI - 0°10'23" LT
STA. 1854+97 POWERLINE CLEARANCE 15 FT.
STA. 1854+91 UNDERGROUND GAS LINE
STA. 1854+99 ROAD EDGE
STA. 1855+17 PAVED, MASSILLON RD CENTERLINE
STA. 1855+32 ROAD EDGE
STA. 1855+43 POWERLINE, CLEARANCE 15 FT.
STA. 1855+58 FENCE

STA. 1859+86 PI - 00°51'15" RT

STA. 1861+13 TOWER, 67 FT. LEFT

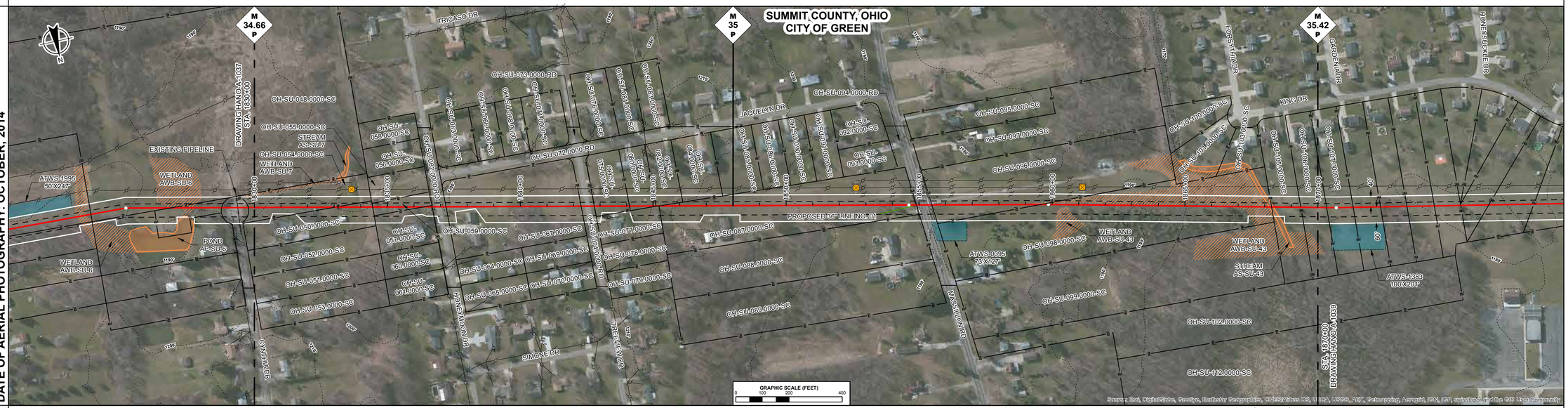
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1859+11 WETLAND AWB-SU-43 ENTER

STA. 1860+15 WETLAND AWB-SU-43 ENTER

STA. 1861+09 WETLAND AWB-SU-43 EXIT

STA. 1867+92 STREAM TRIB TO WILLOWDALE LAKE AS-SU-43 ENTER

STA. 1868+39 WETLAND AWB-SU-43 EXIT

STA. 1868+47 STREAM TRIB TO WILLOWDALE LAKE AS-SU-43 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

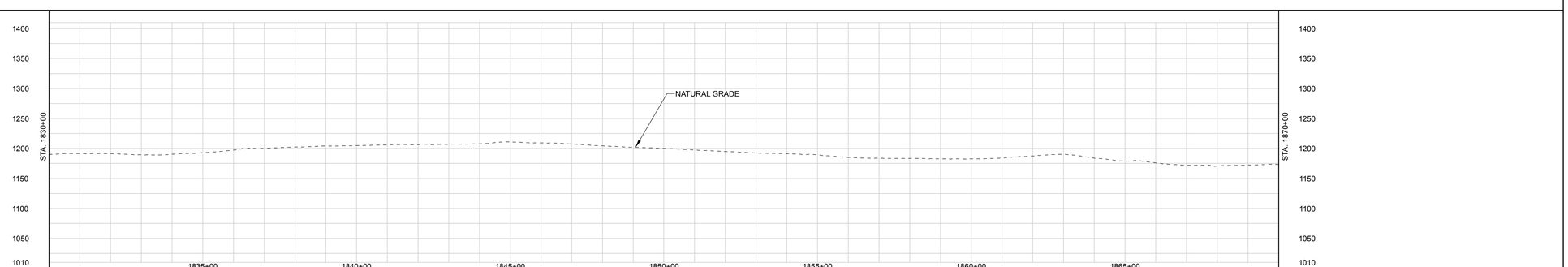
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\205_UPSTREAM_PIPELINE\205K_OS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 036.rtf #266.pdf PLOT TIME: 2015-04-21 16:32:07

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:
TITLE

ENGINEERING APPROVALS

BID		CONSTRUCTION	
SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 34.66 to M.P. 35.42
STA. 1830+00 to STA. 1870+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1038	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

1870+00	OH-SU-106.0000-SC	1870+33	OH-SU-107.0000-SC	1871+33	OH-SU-108.0000-SC	1872+36	OH-SU-109.0000-SC	1873+36	OH-SU-110.0000-SC	1874+38	OH-SU-111.0000-SC	1875+37	OH-SU-115.0000-SC	1876+43	OH-SU-116.0000-SC	1878+13	OH-SU-117.0000-SC	1879+61	OH-SU-118.0000-SC	1881+02	OH-SU-120.0000-SC	1882+65	OH-SU-121.0000-RD	1883+13	OH-SU-124.0000-SC	1885+13	OH-SU-127.0000-SC	1886+10	OH-SU-131.0000-SC	1887+16	OH-SU-134.0000-SC	1888+29	OH-SU-137.0000-SC	1889+00	OH-SU-140.0000-SC	1890+40	OH-SU-144.0000-SC	1891+32	OH-SU-146.0000-SC	1894+54	OH-SU-149.0000-SC	1895+76	OH-SU-151.0000-SC	1896+88	OH-SU-154.0000-SC	1899+15
	33 FT. 2.0 RODS		100 FT. 6.1 RODS		103 FT. 6.2 RODS		99 FT. 6.0 RODS		103 FT. 6.2 RODS		99 FT. 6.0 RODS		106 FT. 6.4 RODS		170 FT. 10.3 RODS		148 FT. 9.0 RODS		141 FT. 8.5 RODS		162 FT. 9.8 RODS		48 FT. 2.9 RODS		200 FT. 12.1 RODS		97 FT. 5.9 RODS		106 FT. 6.4 RODS		113 FT. 6.8 RODS		71 FT. 4.3 RODS		140 FT. 8.5 RODS		92 FT. 5.6 RODS		322 FT. 19.5 RODS		122 FT. 7.4 RODS		112 FT. 6.8 RODS		227 FT. 13.8 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1870+69 PI – 01°39'54" LT

STA. 1882+87 SHRIVER RD (SCALED) CENTERLINE

STA. 1888+04 PI – 01°30'45" LT
STA. 1888+29 TOWER, 54 FT. LEFT

STA. 1890+66 PI – 27°25'55" LT

STA. 1894+28 PI – 24°27'19" RT

STA. 1896+74 FENCE

STA. 1897+52 FENCE

STA. 1899+02 FENCE

STA. 1906+77 PI – 25°06'33" LT

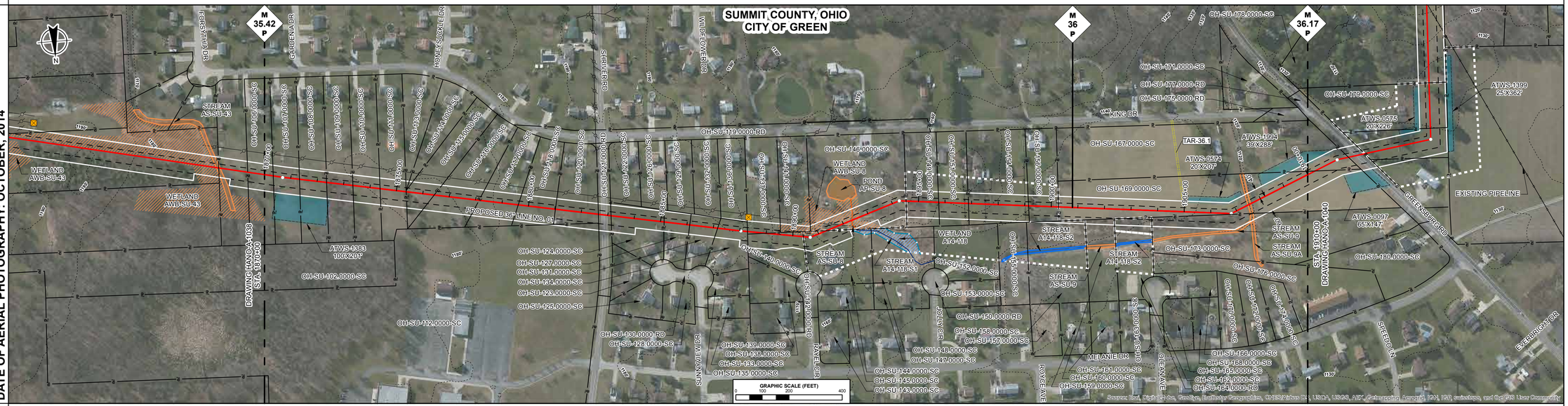
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (1320')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1869+42 WETLAND AWB-SU-8 ENTER

STA. 1882+18 WETLAND AWB-SU-8 ENTER

STA. 1885+61 WETLAND A14-118 ENTER

STA. 1892+22 WETLAND AWB-SU-8 EXIT

STA. 1901+26 WETLAND A14-118 EXIT

STA. 1892+37 CENTERLINE OF STREAM AS-SU-8 TRIB TO NIMISILA RESERVOIR

STA. 1893+02 WETLAND AWB-SU-8 EXIT

STA. 1907+02 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-8 EXIT

STA. 1907+67 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-9 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

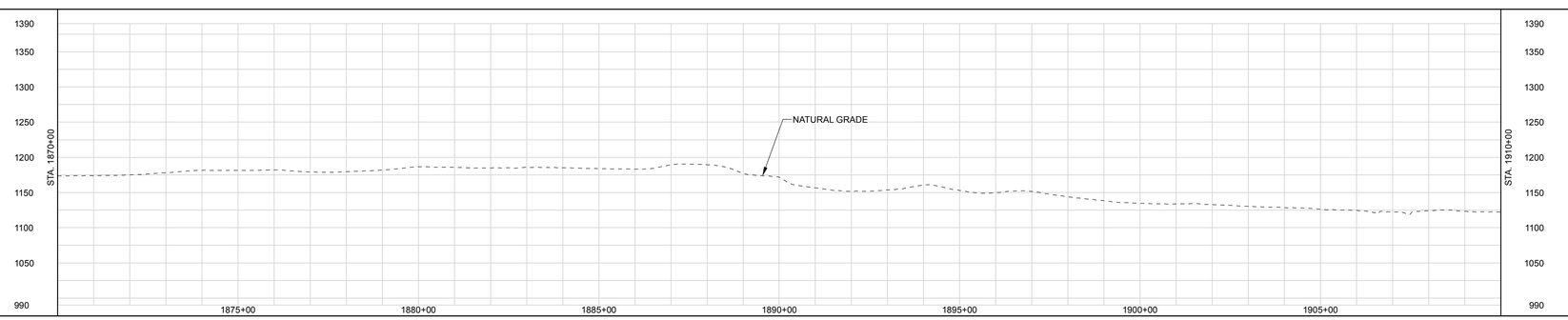
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 35.42 to M.P. 36.17
STA. 1870+00 to STA. 1910+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1039	REV. A

P:\265_UPSTREAM_PIPELINE\299K GIS\ToolbRuun NEXUS PROPOSED MAINLINE PIPELINE 035 of 266.pdf PLOT TIME: 2015-04-21 16:42:25

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

1910+00	OH-SU-169.0000-SC	1910+31	OH-SU-167.0000-SC	1911+68	OH-SU-177.0000-RD	1912+30	OH-SU-181.0000-SC	1915+27	OH-SU-179.0000-SC	1916+88	OH-SU-178.0000-SC	1922+58	OH-SU-178.0103-SC	1925+52	OH-SU-178.0105-RD	1926+32	OH-SU-178.0121-SC	1960+00
	31 FT.		137 FT.		62 FT.		297 FT.		171 FT.		560 FT.		294 FT.		80 FT.		3368 FT.	
	1.9 RODS		8.3 RODS		3.8 RODS		18.0 RODS		10.4 RODS		33.9 RODS		17.8 RODS		4.8 RODS		204.1 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1911+24 PI – 44°30'47" RT
STA. 1912+19 GREENSBURG RD (SCALED) CENTERLINE

STA. 1914+84 PI – 79°30'10" LT

STA. 1919+99 GAS PL

STA. 1924+90 PI – 40°56'26" RT

STA. 1926+04 E NIMISILA RD (SCALED) CENTERLINE

STA. 1926+61 PI – 40°51'48" LT

STA. 1952+11 PI – 89°56'46" RT

STA. 1954+70 PI – 05°48'52" LT

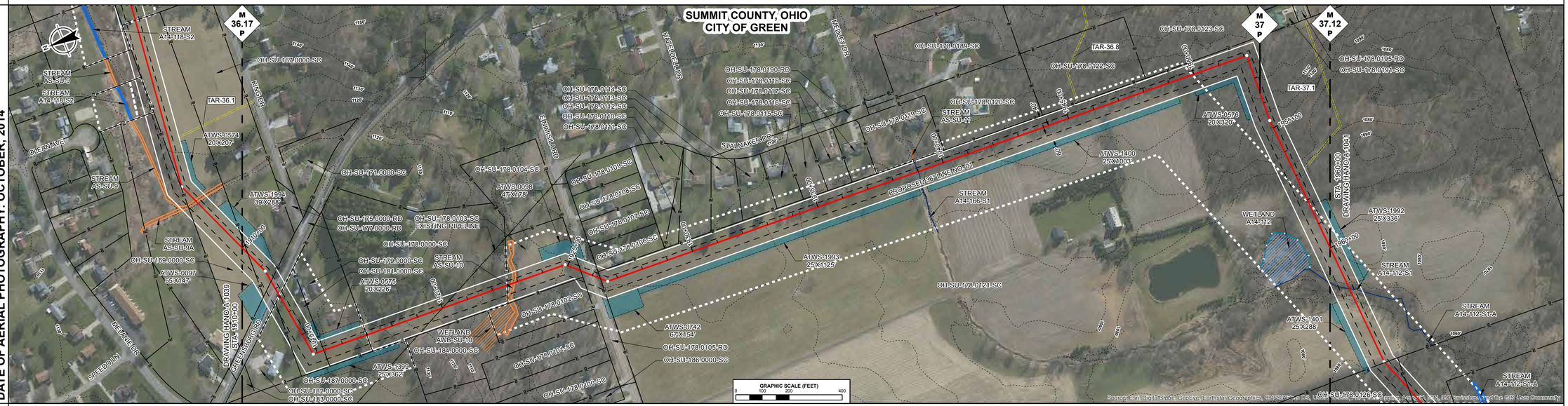
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W–W)
- RAILROAD TRACK
- TELEPHONE (T–T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS — WATER — OIL — OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 1922+39 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-10 ENTER
STA. 1924+15 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-10 EXIT

STA. 1939+00 CENTERLINE OF STREAM A14-168-S1T TRIB TO NIMISILA RESERVOIR

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

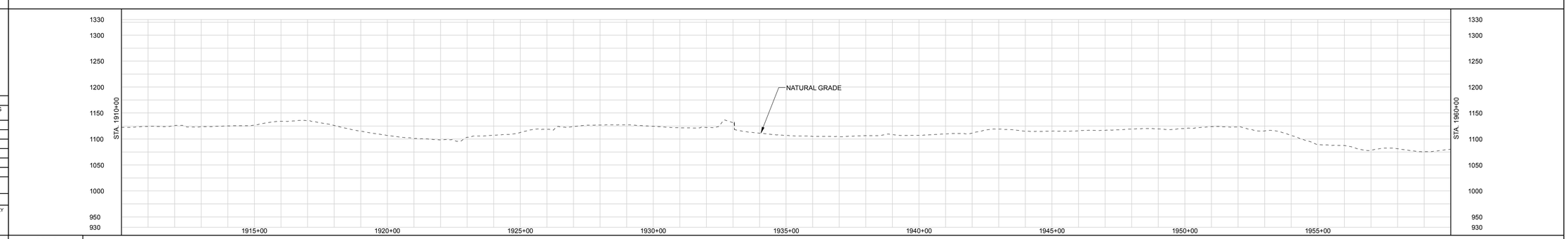
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 36.17 to M.P. 37.12
STA. 1910+00 to STA. 1960+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1040	REV. A

P:\205_UPSTREAM_PIPELINE\205K_OST\ut\Ansel NEXUS PROPOSED MAINLINE PIPELINE 840-of-2661.pdf PLOT TIME: 2015-04-21 16:53:55

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

1960+00	OH-SU-178.0121-SC	1964+79	OH-SU-178.0126-SC	1966+11	OH-SU-178.0124-SC	1969+87	OH-SU-178.0125-SC	1975+84	OH-SU-178.0127-SC	1978+47	OH-SU-178.0131-RD	1979+02	OH-SU-178.0138-SC	1992+34	OH-SU-178.0144-SC	1995+63	OH-SU-178.0146-SC	2000+67	OH-SU-178.0148-SC	2005+09	OH-SU-178.0153-SC	2005+96	OH-SU-178.0150-SC	2006+44	OH-SU-178.0152-RD	2007+06	OH-SU-178.0154-SC	2010+00
	479 FT. 29.0 RODS		132 FT. 8.0 RODS		376 FT. 22.8 RODS		597 FT. 36.2 RODS		259 FT. 15.7 RODS		55 FT. 3.3 RODS		1332 FT. 80.7 RODS		329 FT. 19.9 RODS		504 FT. 30.5 RODS		435 FT. 26.4 RODS		88 FT. 5.3 RODS		55 FT. 3.3 RODS		62 FT. 3.8 RODS		294 FT. 17.8 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 1964+74 PI – 16°47'41" LT

STA. 1973+24 PI – 17°42'33" RT

STA. 1977+92 PI – 04°54'18" RT

STA. 1978+72 ARLINGTON RD (SCALED) CENTERLINE

STA. 1986+20 PI – 04°32'36" LT

STA. 1996+84 PI – 49°29'52" LT

STA. 2005+84 PI – 02°03'07" RT

STA. 2006+73 KILLINGER RD (SCALED) CENTERLINE

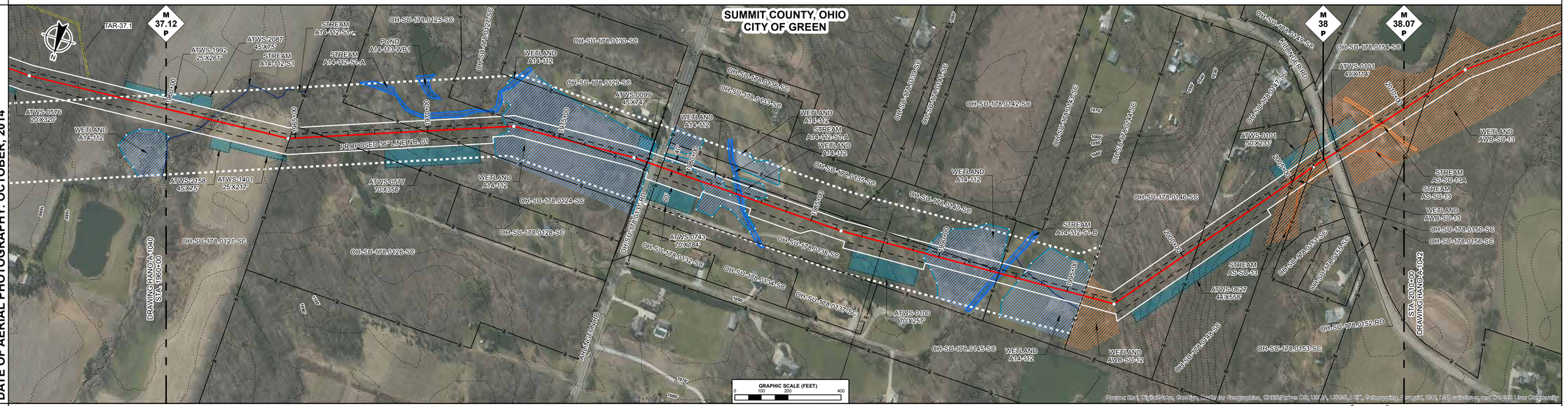
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

ENVIRONMENTAL DATA

- STA. 1964+70 CENTERLINE OF STREAM A14-112-S1 TRIB TO NIMISILA RESERVOIR
- STA. 1972+55 WETLAND A14-112 ENTER
- STA. 1978+57 WETLAND A14-112 EXIT
- STA. 1978+98 WETLAND A14-112 ENTER
- STA. 1979+70 WETLAND A14-112 EXIT
- STA. 1979+96 WETLAND A14-112 ENTER
- STA. 1981+83 STREAM TRIB TO NIMISILA RESERVOIR A14-112-S1-A ENTER
- STA. 1982+43 STREAM TRIB TO NIMISILA RESERVOIR A14-112-S1-A EXIT
- STA. 1983+15 WETLAND A14-112 EXIT
- STA. 1989+47 WETLAND A14-112 ENTER
- STA. 1992+10 STREAM TRIB TO NIMISILA RESERVOIR A14-112-S1-B ENTER
- STA. 1992+43 WETLAND A14-112 EXIT
- STA. 1992+65 STREAM TRIB TO NIMISILA RESERVOIR A14-112-S1-B EXIT
- STA. 1993+18 WETLAND A14-112 ENTER
- STA. 1994+18 CENTERLINE OF STREAM A14-112-S2 TRIB TO NIMISILA RESERVOIR
- STA. 1995+61 WETLAND AWB-SU-12 ENTER
- STA. 1995+66 WETLAND A14-112 EXIT
- STA. 1996+84 WETLAND AWB-SU-12 EXIT
- STA. 2004+02 WETLAND AWB-SU-13 ENTER
- STA. 2006+76 WETLAND AWB-SU-13 EXIT
- STA. 2007+11 WETLAND AWB-SU-13 ENTER
- STA. 2008+67 WETLAND AS-SU-13A ENTER
- STA. 2008+67 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-13A ENTER
- STA. 2009+11 WETLAND AS-SU-13A EXIT
- STA. 2009+11 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-13A EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

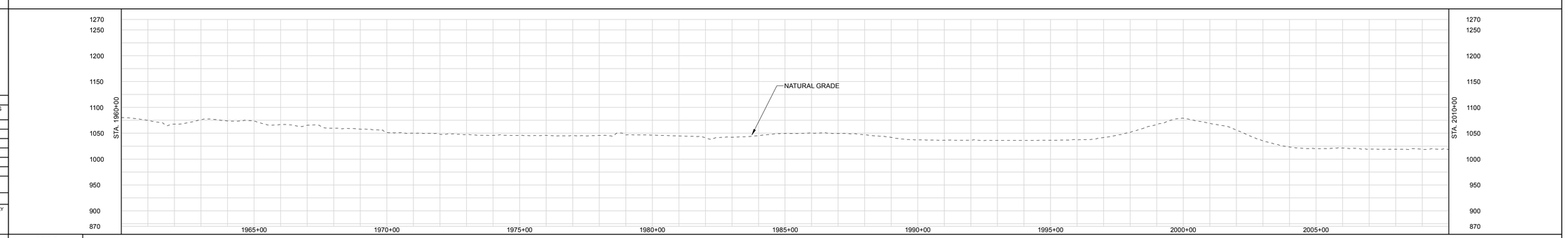
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\265_UPSTREAM_PIPELINE\299K GIS\ToBeRuun NEXUS PROPOSED MAINLINE PIPELINE 041 of 266.pdf PLOT TIME: 2015-04-22 09:33:30

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 37.12 to M.P. 38.07
STA. 1960+00 to STA. 2010+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1041	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

2010+00	OH-SU-178.0154-SC	2011+05	OH-SU-178.0156-SC	2026+41	OH-SU-178.0157-SC	2040+73	OH-SU-178.0158-SC	2045+58	OH-SU-178.0159-SC	2048+98	OH-SU-178.0160-SC	2053+54	OH-SU-178.0160.01-RD	2054+28	OH-SU-178.0164-SC	2055+87	OH-SU-178.0163-SC	2058+34	OH-SU-178.0169-SC	2060+00
	105 FT. 6.4 RODS		1536 FT. 93.1 RODS		1432 FT. 86.8 RODS		483 FT. 29.3 RODS		340 FT. 20.6 RODS		458 FT. 27.8 RODS		74 FT. 4.5 RODS		159 FT. 9.6 RODS		247 FT. 15.0 RODS		166 FT. 10.1 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2012+73 PI – 11°46'04" RT

STA. 2023+07 DRIVEWAY EDGE
STA. 2023+20 GAS PL
STA. 2023+26 DRIVEWAY EDGE

STA. 2024+51 PI – 15°33'28" LT

STA. 2039+92 PI – 29°46'26" LT

STA. 2040+95 PI – 49°36'02" RT

STA. 2044+98 PI – 32°29'52" RT

STA. 2051+65 BUILDING
STA. 2051+69 BUILDING, 10 FT. LEFT
STA. 2051+76 BUILDING
STA. 2052+46 GAS PL
STA. 2052+66 GAS PL
STA. 2053+39 PI – 38°21'50" RT
STA. 2053+84 CHRISTMAN RD
STA. 2054+01 EDGE OF PAVEMENT
STA. 2054+62 DRIVEWAY EDGE
STA. 2054+71 DRIVEWAY EDGE
STA. 2055+06 POWERLINE, CLEARANCE 7 FT
STA. 2055+22 POWERLINE, CLEARANCE 10 FT
STA. 2057+21 PI – 14°52'34" RT
STA. 2059+43 GAS PL
STA. 2059+28 GAS PL

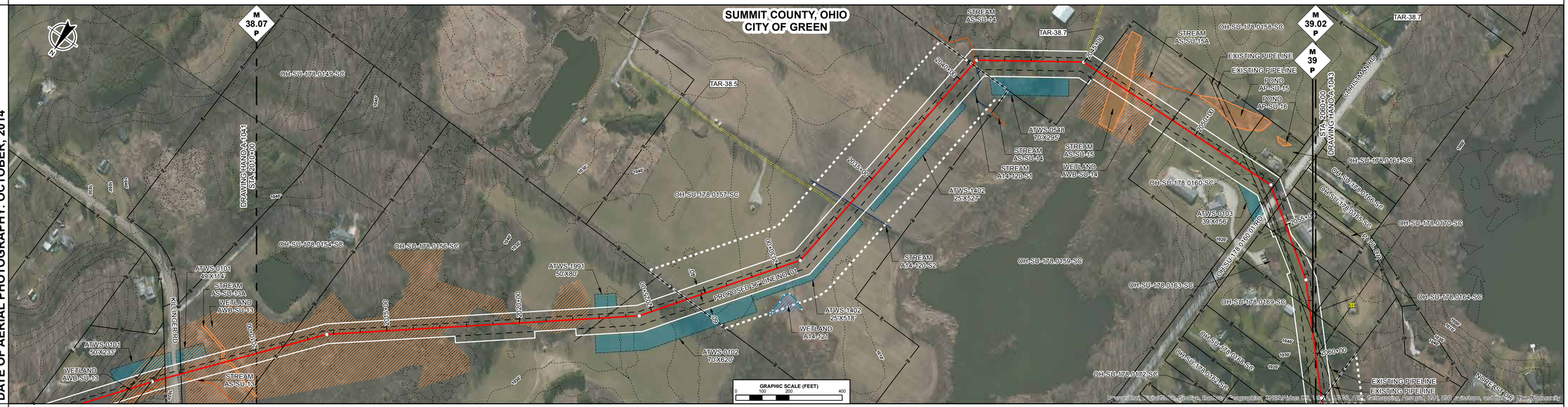
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
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- CONTOUR
- MUNICIPALITY LINE
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- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2018+10 WETLAND AWB-SU-13 EXIT
STA. 2019+03 WETLAND AWB-SU-13 ENTER
STA. 2022+65 WETLAND AWB-SU-13 EXIT
STA. 2033+79 CENTERLINE OF STREAM A14-120-S2 TRIB TO NIMISILA RESERVOIR
STA. 2040+85 CENTERLINE OF STREAM AS-SU-14 TRIB TO NIMISILA RESERVOIR
STA. 2045+65 WETLAND AWB-SU-14 ENTER
STA. 2046+43 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-15 ENTER
STA. 2046+38 WETLAND AWB-SU-14 EXIT
STA. 2046+83 WETLAND AWB-SU-14 ENTER
STA. 2047+00 STREAM TRIB TO NIMISILA RESERVOIR AS-SU-15 EXIT
STA. 2048+26 WETLAND AWB-SU-14 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (F)
- SLOPE BREAKERS
- TRENCH PLUG

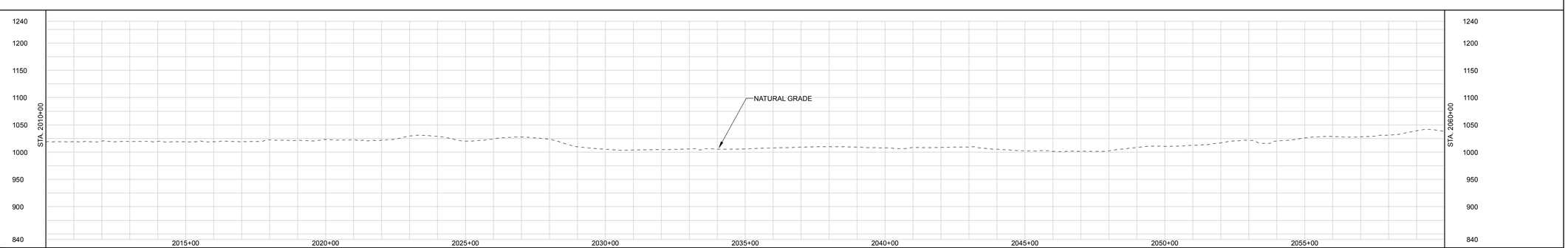
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 38.07 to M.P. 39.02
STA. 2010+00 to STA. 2060+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1042	REV. A

P:\295_UPSTREAM_PIPELINE\290K_GIS\ArcMap\Nexus PROPOSED MAINLINE PIPELINE 8X11 #7266.pdf PLOT TIME: 2015-04-21 17:03:13

RIGHT-OF-WAY

TRACT NUMBERS

2060+00	OH-SU-178.0169-SC	2061+48	OH-SU-178.0168-SC	2061+78	OH-SU-178.0172-SC	2067+05	OH-SU-178.0176-SC	2070+55	OH-SU-178.0177-SC	2072+46	OH-SU-178.0182-SC	2081+31	OH-SU-178.0188-SC	2084+94	OH-SU-178.0185-RD	2085+67	OH-SU-252.0000-SC	2093+81	OH-SU-252.0103-SC	2097+53	OH-SU-252.0105-SC	2101+52	OH-SU-252.0107-SC	2104+58	OH-SU-252.0110-SC	2108+52	OH-SU-252.0109-SC	2110+00
	148 FT. 9.0 RODS		30 FT. 1.8 RODS		527 FT. 31.9 RODS		350 FT. 21.2 RODS		191 FT. 11.6 RODS		885 FT. 53.6 RODS		355 FT. 21.5 RODS		82 FT. 5.0 RODS		814 FT. 49.3 RODS		372 FT. 22.5 RODS		399 FT. 24.2 RODS		306 FT. 18.5 RODS		394 FT. 23.9 RODS		148 FT. 9.0 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2061+69 PI – 04°20'49" LT

STA. 2067+52 GAS PL
STA. 2068+14 WELL 6 FT. RIGHT

STA. 2074+12 PI – 26°00'36" LT

STA. 2080+71 PI – 21°19'53" LT

STA. 2083+08 GAS PL

STA. 2084+75 NOREAST DR (SCALED) CENTERLINE
STA. 2084+95 EXISTING (SCALED) CENTERLINE

STA. 2107+46 PI – 35°25'02" RT

STA. 2108+42 GAS PL
STA. 2108+86 POWERLINE, CLEARANCE 29 FT
STA. 2109+45 BUILDING, 82 FT. RIGHT

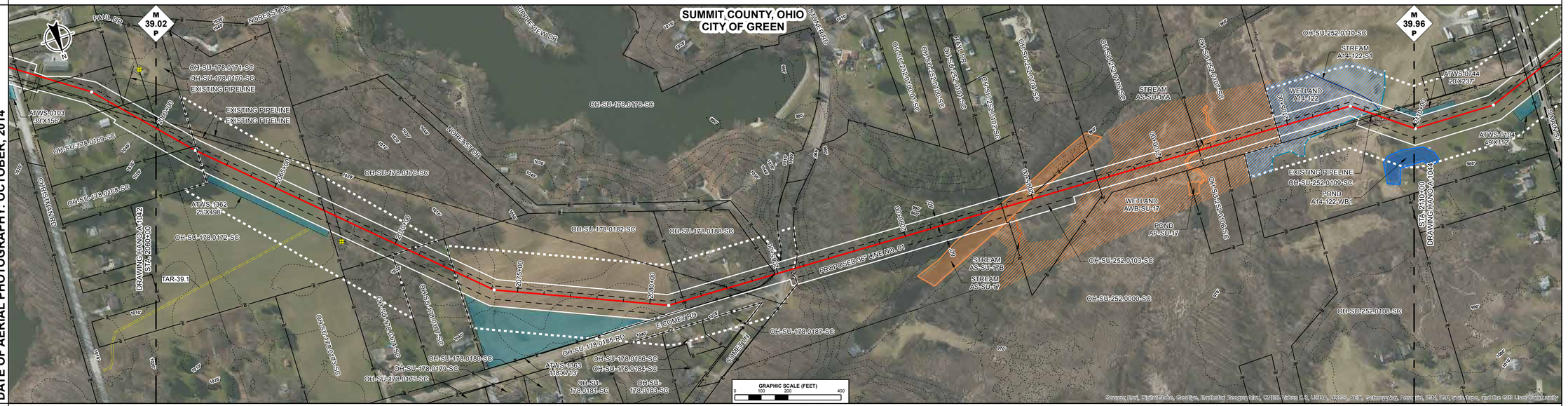
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
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- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD — PAR-0.0
- TEMPORARY ACCESS ROAD — TAR-0.0
- PARCEL TRACT NO — OH-CO-011.0000-SC
- PROPERTY LINE
- CONTOUR — 120'
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE — W
- RAILROAD TRACK
- TELEPHONE — T
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2092+64 STREAM NIMISILA CREEK AS-SU-17 ENTER	STA. 2095+81 STREAM NIMISILA CREEK AS-SU-17 EXIT	STA. 2096+82 WETLAND AWB-SU-17 ENTER	STA. 2100+90 STREAM TRIB TO NIMISILA CREEK AS-SU-17A ENTER	STA. 2101+68 WETLAND AWB-SU-17 ENTER	STA. 2102+23 WETLAND AWB-SU-17 EXIT	STA. 2102+30 STREAM TRIB TO NIMISILA CREEK AS-SU-17A EXIT	STA. 2104+58 WETLAND A14-122 ENTER	STA. 2104+65 WETLAND AWB-SU-17 EXIT	STA. 2108+57 WETLAND A14-122 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

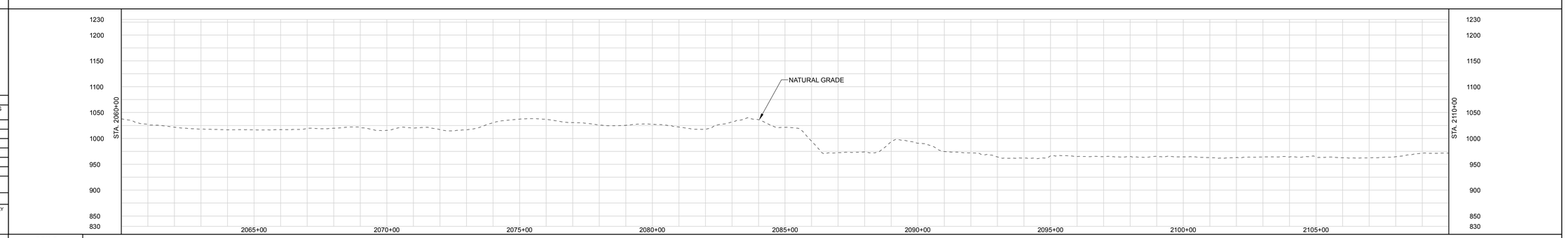
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
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		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION						SOILS
AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL	LAND USE
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY	% SLOPE

P:\265_UPSTREAM_PIPELINE\26PK_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 043.of.266.pdf PLOT TIME: 2015-04-21 17:07:50

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:

ENGINEERING APPROVALS

TITLE	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 39.02 to M.P. 39.96
STA. 2060+00 to STA. 2110+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1043	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

2110+00	OH-SU-252.0109-SC	2114+74	OH-SU-252.0118-RD	2115+38	OH-SU-252.0122-SC	2119+86	OH-SU-252.0120-SC	2122+14	OH-SU-252.0121-SC	2125+72	OH-SU-252.0124-SC	2127+91	OH-SU-252.0125-SC	2133+12	OH-SU-252.0126-SC	2136+94	OH-SU-252.0127-SC	2139+41	OH-SU-252.0129-SC	2142+15	OH-SU-252.0132-RD	2142+74	OH-SU-252.0135-SC	2145+93	OH-SU-252.0139-SC	2149+78	OH-SU-252.0140-SC	2150+00	OH-SU-252.0141-SC	2150+82	OH-SU-252.0142-SC	2152+83	OH-SU-252.0144-SC	2154+81	OH-SU-252.0145-SC	2156+72	OH-SU-252.0147-SC	2158+73	OH-SU-252.0149-SC	2159+74	OH-SU-252.0151-SC	2160+00
	473 FT. 28.7 RODS		65 FT. 3.9 RODS		448 FT. 27.2 RODS		228 FT. 13.8 RODS		358 FT. 21.7 RODS		219 FT. 13.3 RODS		521 FT. 31.6 RODS		382 FT. 23.2 RODS		247 FT. 15.0 RODS		273 FT. 16.5 RODS		59 FT. 3.6 RODS		319 FT. 19.3 RODS		285 FT. 17.3 RODS		122 FT. 7.4 RODS		82 FT. 5.0 RODS		201 FT. 12.2 RODS		198 FT. 12.0 RODS		191 FT. 11.6 RODS		201 FT. 12.2 RODS		101 FT. 6.1 RODS		26 FT. 1.6 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2110+05 PI – 35°53'53" LT
STA. 2113+12 PI – 21°25'10" LT
STA. 2114+86 SEWER
STA. 2114+94 ROAD EDGE
STA. 2115+09 MUNICIPALITY LINE
STA. 2115+09 PAVED_S MAIN ST ROAD EDGE
STA. 2115+22 ROAD EDGE
STA. 2115+31 DITCH_DEPTH 0
FT_CEN TERLINE
STA. 2115+32 SEWER
STA. 2115+38 GAS PL
STA. 2115+42 POWERLINE, CL 66KV_SVC 21 FT
STA. 2117+01 PI – 23°23'19" RT
STA. 2118+51 PI – 25°12'00" RT
STA. 2119+99 GAS PL
STA. 2121+01 PI – 26°14'48" LT
STA. 2121+95 FENCE
STA. 2141+05 PI – 02°50'17" LT
STA. 2142+24 POWERLINE, CL 66KV_SVC 21 FT
STA. 2142+32 ROAD EDGE
STA. 2142+41 PAVED_MYERS RD CENTERLINE
STA. 2142+41 ROAD EDGE
STA. 2149+01 PI – 03°28'54" RT
STA. 2150+00 PI – 30°24'38" RT
STA. 2151+59 PI – 30°46'38" LT

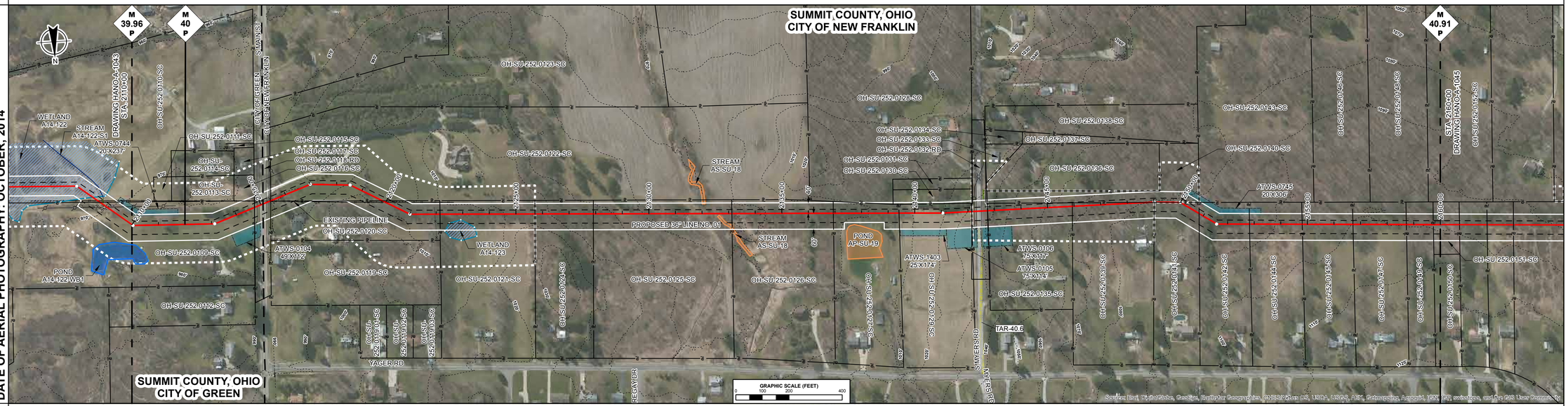
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2122+34 WETLAND A14-123 ENTER
STA. 2123+47 WETLAND A14-123 EXIT
STA. 2132+00 STREAM TRIB TO NIMISILA CREEK AS-SU-18 ENTER
STA. 2132+11 STREAM TRIB TO NIMISILA CREEK AS-SU-18 EXIT
STA. 2132+59 STREAM TRIB TO NIMISILA CREEK AS-SU-18 ENTER
STA. 2133+47 STREAM TRIB TO NIMISILA CREEK AS-SU-18 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

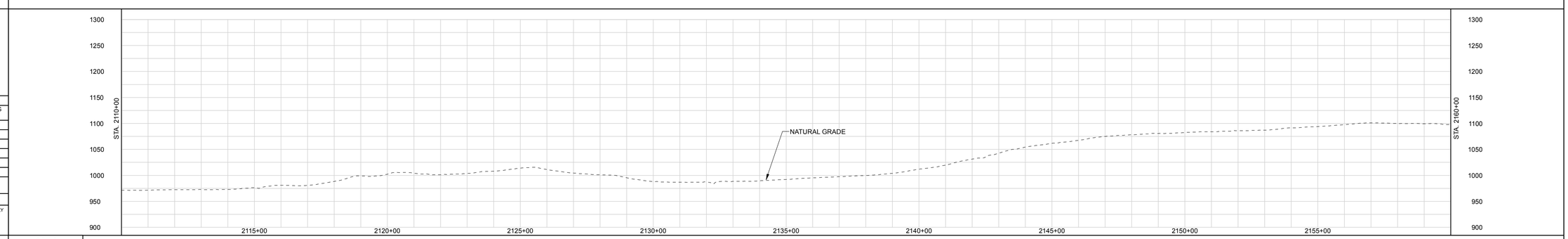
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY: / TITLE	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 39.96 to M.P. 40.91
STA. 2110+00 to STA. 2160+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1044	REV. A

P:\265_UPSTREAM_PIPELINE\265K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 044 of 266.pdf PLOT TIME: 2015-04-21 17:18:19

RIGHT-OF-WAY

TRACT NUMBERS

2160+00	OH-SU-252.0151-SC	2160+72	OH-SU-252.0153-SC	2161+76	OH-SU-252.0154-SC	2162+75	OH-SU-252.0156-SC	2164+90	OH-SU-252.0157-SC	2166+34	OH-SU-252.0159-SC	2168+59	OH-SU-252.0161-SC	2169+56	OH-SU-252.0163-SC	2172+88	OH-SU-252.0166-SC	2180+61	OH-SU-252.0172-SC	2184+73	OH-SU-252.0176-RD	2185+38	OH-SU-252.0180-SC	2186+18	OH-SU-252.0179-SC	2188+51	OH-SU-252.0178-SC	2189+89	OH-SU-252.0183-SC	2205+27	OH-SU-252.0186-SC	2208+84	OH-SU-252.0188-SC	2210+00
	72 FT. 4.4 RODS		104 FT. 6.3 RODS		99 FT. 6.0 RODS		215 FT. 13.0 RODS		144 FT. 8.7 RODS		225 FT. 13.6 RODS		97 FT. 5.9 RODS		432 FT. 26.2 RODS		1473 FT. 89.3 RODS		614 FT. 37.2 RODS		60 FT. 3.6 RODS		83 FT. 5.0 RODS		233 FT. 14.1 RODS		38 FT. 2.3 RODS		638 FT. 38.7 RODS		357 FT. 21.6 RODS		116 FT. 7.0 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2176+75 GAS PL
STA. 2177+06 PI – 01°29'38" LT

STA. 2183+41 PI – 64°08'47" RT

STA. 2186+49 PI – 64°01'09" LT

STA. 2188+35 GAS PL
STA. 2188+55 GAS PL

STA. 2194+19 PI – 25°04'20" LT
STA. 2194+73 TOP BANK
STA. 2194+74 POWERLINE, CLEARANCE 20 FT
STA. 2194+75 DEPTH OF FT. CENTERLINE
STA. 2194+78 TOP BANK
STA. 2194+85 ROAD EDGE
STA. 2195+01 PAVED MANCHESTER RD CENTERLINE
STA. 2195+15 ROAD EDGE
STA. 2195+22 FENCE
STA. 2195+93 PI – 11°54'32" LT

STA. 2198+98 PI – 37°06'02" RT

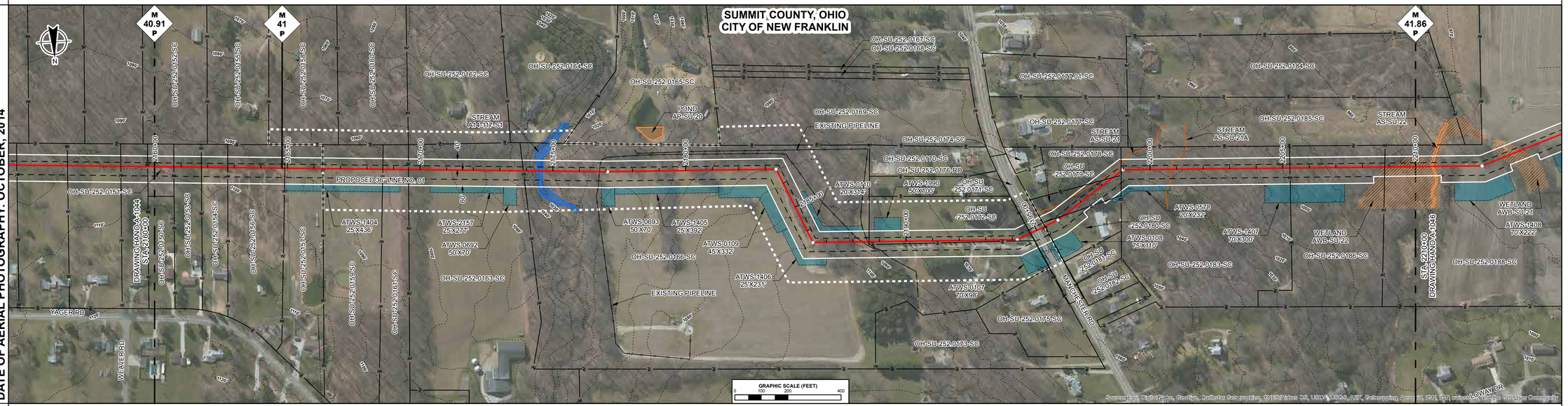
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2174+37 STREAM TRIB TO NIMISILA CREEK A14-117-S1 ENTER
STA. 2174+47 STREAM TRIB TO NIMISILA CREEK A14-117-S1 EXIT

STA. 2200+78 CENTERLINE OF STREAM AS-SU-21A TRIB TO NIMISILA CREEK

STA. 2208+61 WETLAND AWB-SU-22 ENTER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

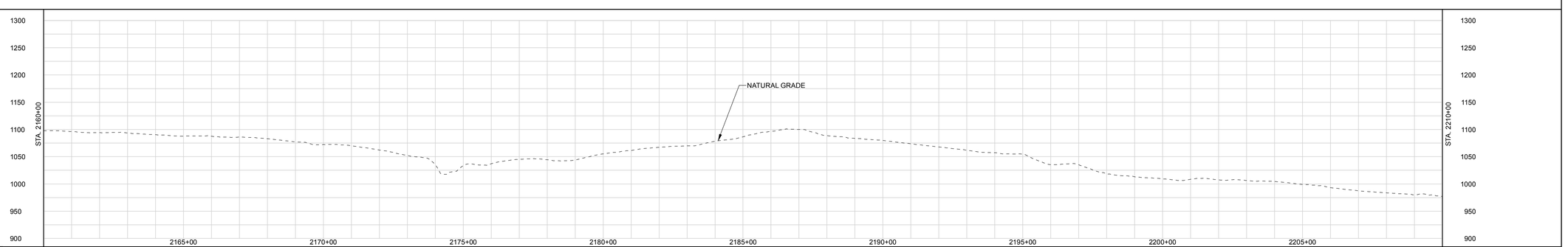
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

ENGINEERING APPROVALS

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 40.91 to M.P. 41.86
STA. 2160+00 to STA. 2210+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1045	REV. A

P:\265_UPSTREAM_PIPELINE\265K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 045 of 266.pdf - PLOT TIME: 2015-04-22 09:23:51

DRAWING #

RIGHT-OF-WAY

TRACT NUMBERS

2210+00 — **OH-SU-252.0188-SC** — 2234 FT. — 135.4 RODS — 2232+34 — **OH-SU-252.0190-RD** — 69 FT. — 4.2 RODS — 2232+94 — **OH-SU-252.0191-SC** — 397 FT. — 24.1 RODS — 2236+91 — **OH-SU-252.0193-SC** — 1168 FT. — 70.8 RODS — 2248+59 — **OH-SU-252.0195-SC** — 141 FT. — 8.5 RODS — 2250+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2212+51 PI – 21°14'22" LT

STA. 2216+29 PI – 21°40'01" RT

STA. 2231+15 VALVE FENCE
STA. 2231+45 VALVE FENCE
STA. 2232+63 ROAD EDGE
STA. 2232+76 PAVED.
HARRISBURG RD
CENTERLINE
STA. 2232+88 ROAD EDGE
STA. 2232+89 TOP OF DEPTH 0
FT. CENTERLINE
STA. 2232+93 POWERLINE.
CLEARANCE 45 FT.
STA. 2232+94 POWERLINE.
CLEARANCE 20 FT.

STA. 2236+53 GAS WELL, 120 FT. LEFT

STA. 2238+79 GAS PL
STA. 2238+90 GAS PL

STA. 2247+38 PI – 51°29'27" RT

STA. 2248+36 GAS PL

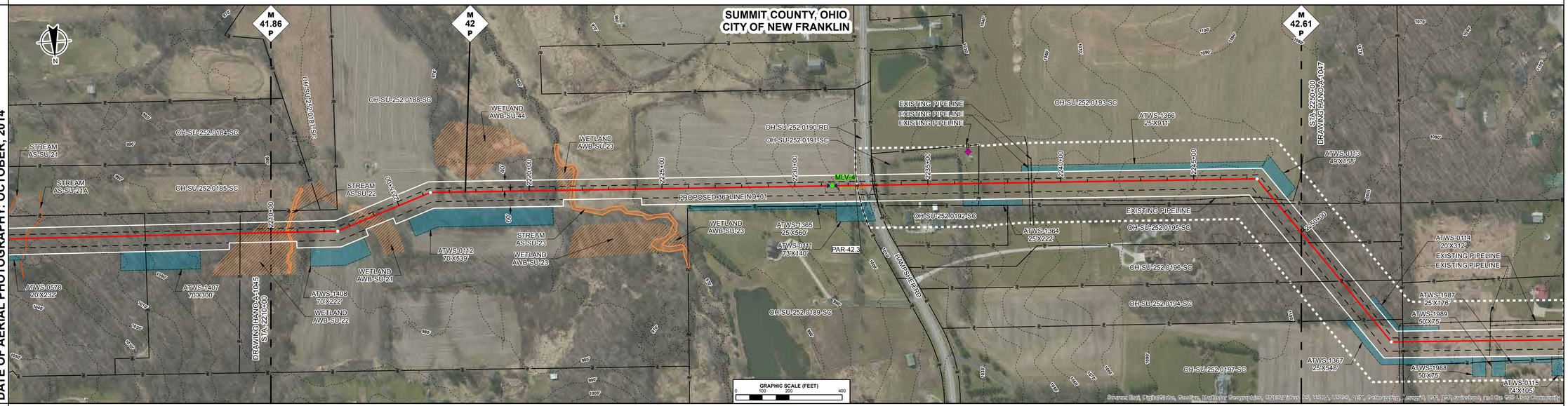
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (◇ 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE — FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2210+57 STREAM TRIB TO NIMISILA CREEK AS-SU-22 ENTER
STA. 2210+64 WETLAND AWB-SU-22 ENTER
STA. 2210+74 WETLAND AWB-SU-22 EXIT
STA. 2210+81 STREAM TRIB TO NIMISILA CREEK AS-SU-22 EXIT
STA. 2210+95 WETLAND AWB-SU-22 EXIT
STA. 2213+45 WETLAND AWB-SU-21 ENTER
STA. 2214+42 WETLAND AWB-SU-21 EXIT

STA. 2220+99 WETLAND AWB-SU-23 ENTER
STA. 2221+53 STREAM TRIB TO NIMISILA CREEK AS-SU-23 ENTER
STA. 2221+65 WETLAND AWB-SU-23 EXIT
STA. 2221+77 STREAM TRIB TO NIMISILA CREEK AS-SU-23 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

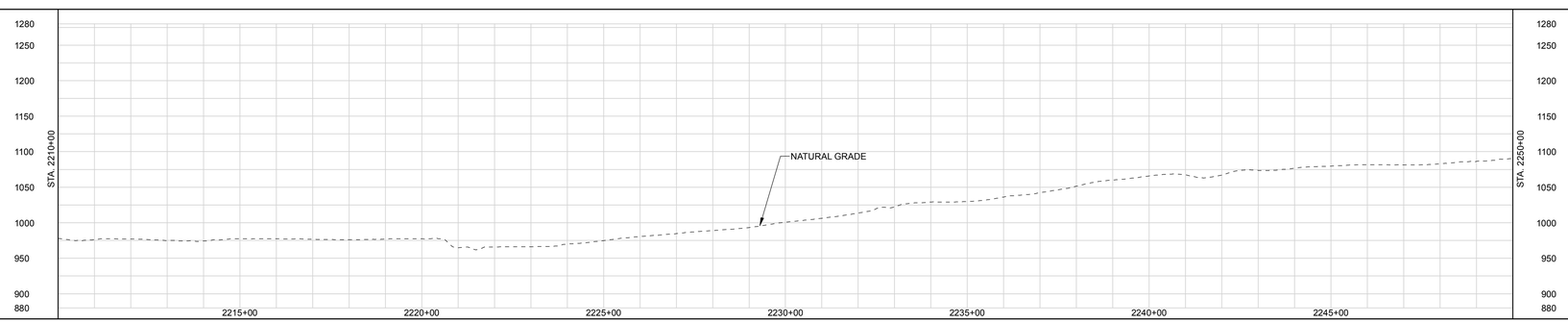
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 41.86 to M.P. 42.61
STA. 2210+00 to STA. 2250+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1046	REV. A

P:\265_UPSTREAM_PIPELINE\2696K GIS\TurboRush NEXUS PROPOSED MAINLINE PIPELINE 846 of 1266.pdf PLOT TIME: 2015-04-22 09:40:31

DWG. #

RIGHT-OF-WAY

TRACT NUMBERS

2250+00	OH-SU-252.0195-SC	2250+49	OH-SU-252.0196-SC	2252+36	OH-SU-252.0194-SC	2254+26	OH-SU-252.0197-SC	2255+77	OH-SU-252.0199-SC	2262+17	OH-SU-252.0201-RD	2262+67	OH-SU-252.0202-SC	2265+53	OH-SU-252.0206-SC	2268+53	OH-SU-252.0207-SC	2269+03	OH-SU-252.0210-SC	2278+75	OH-SU-252.0212-SC	2284+35	OH-SU-252.0214-SC	2290+00
	49 FT. 3.0 RODS		187 FT. 11.3 RODS		190 FT. 11.5 RODS		151 FT. 9.2 RODS		640 FT. 38.8 RODS		50 FT. 3.0 RODS		286 FT. 17.3 RODS		300 FT. 18.2 RODS		50 FT. 3.0 RODS		972 FT. 58.9 RODS		560 FT. 33.9 RODS		565 FT. 34.2 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2255+53 PI – 51°16'54" LT
STA. 2255+62 GAS PL

STA. 2259+04 GAS PL

STA. 2261+80 PI – 04°43'02" RT
STA. 2262+22 POWERLINE
STA. 2262+31 GAS PL
STA. 2262+34 ROAD EDGE
STA. 2262+45 PAVED_GROVE
STA. 2262+46 CENTERLINE
STA. 2262+58 ROAD EDGE

STA. 2269+21 PI – 03°22'00" RT

STA. 2279+34 PI – 39°15'20" RT
STA. 2279+45 FENCE

STA. 2285+74 PI – 40°15'34" RT
STA. 2284+64 FENCE
STA. 2284+92 FENCE
STA. 2286+45 GAS PL
STA. 2286+60 FOREIGN PL
STA. 2286+65 GAS PL
STA. 2286+99 GAS PL
STA. 2287+06 FENCE
STA. 2287+70 GAS PL
STA. 2287+94 GAS PL

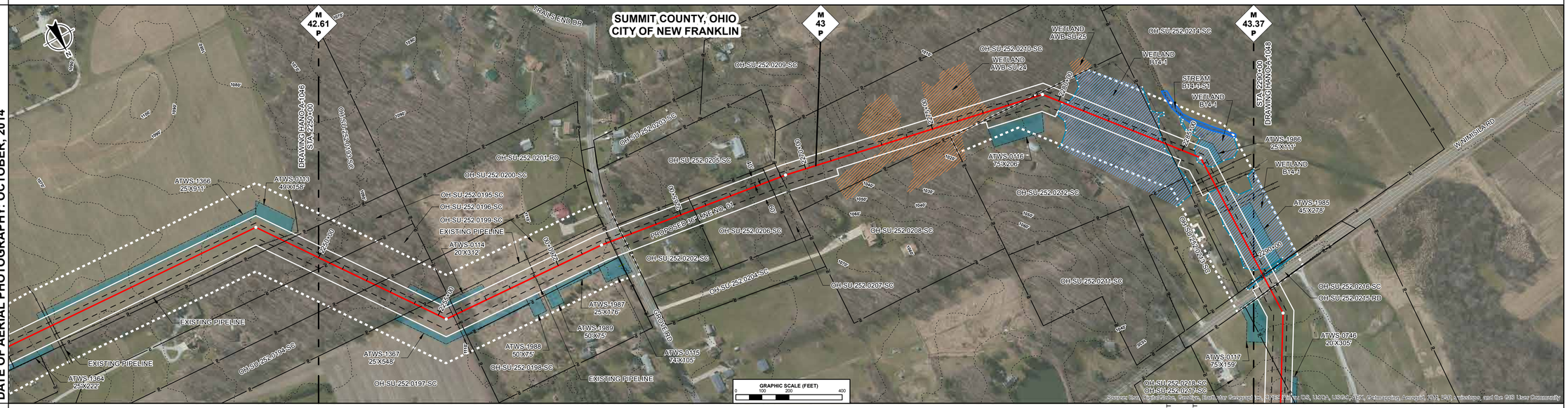
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
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- DELINEATED WATERBODY CENTERLINE
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- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE / FIRE HYDRANT
- WELL: GAS / WATER / OIL / OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2271+22 WETLAND AWB-SU-24 ENTER

STA. 2277+34 WETLAND AWB-SU-24 EXIT

STA. 2280+14 WETLAND B14-1 ENTER

STA. 2284+68 WETLAND B14-1 EXIT
STA. 2285+39 WETLAND B14-1 ENTER
STA. 2287+27

STA. 2288+27 WETLAND B14-1 EXIT
STA. 2288+72 WETLAND B14-1 ENTER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

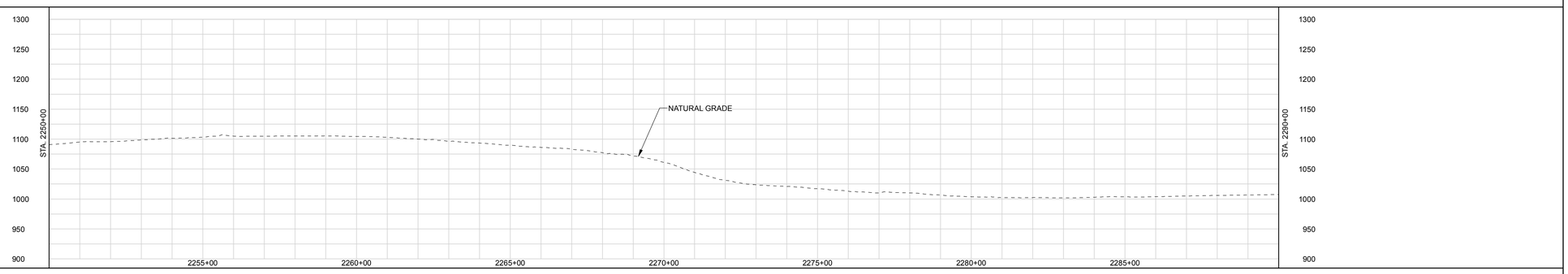
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 42.61 to M.P. 43.37
STA. 2250+00 to STA. 2290+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1047	REV. A

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

IG.#

P:\295_UPSTREAM_PPELINE\295PL GIS\ArcMap\Exhibit NEXUS PROPOSED MAINLINE PIPELINE 947 of 295.pdf - PLOT TIME: 2015-04-22 11:44:53

RIGHT-OF-WAY

TRACT NUMBERS

2290+00	OH-SU-252.0214-SC	2295+76	OH-SU-252.0215-RD	2291+34	OH-SU-252.0216-SC	2294+76	OH-SU-252.0217-SC	2300+71	OH-SU-252.0220-SC	2306+17	OH-SU-252.0221-SC	2327+69	OH-SU-252.0225-RD	2329+27	OH-SU-252.0227-SC	2333+26	OH-SU-252.0230-SC	2337+03	OH-SU-252.0231-SC	2340+00
	77 FT. 4.7 RODS		57 FT. 3.5 RODS		342 FT. 20.7 RODS		595 FT. 36.1 RODS		546 FT. 33.1 RODS		2152 FT. 130.4 RODS		58 FT. 3.5 RODS		499 FT. 30.2 RODS		377 FT. 22.8 RODS		297 FT. 18.0 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2290+65 FENCE
STA. 2290+79 DITCH, DEPTH 10 FT, CENTERLINE
STA. 2294+76 POWERLINE, CLEARANCE 15 FT.
STA. 2295+95 ROAD EDGE
STA. 2296+10 PAVED, WEST NIMISILA RD.
CENTERLINE
STA. 2297+50 ROAD EDGE
STA. 2301+38 SEWER
STA. 2292+36 PI – 29°34'07" RT

STA. 2298+41 PI – 28°10'37" LT

STA. 2304+92 PI – 39°01'26" LT

STA. 2307+43 PI – 39°32'05" RT

STA. 2327+86 ROAD EDGE
STA. 2327+96 PAVED, RHEAM RD CENTERLINE
STA. 2328+06 ROAD EDGE

STA. 2329+19 GAS PL

STA. 2330+87 PI – 46°08'10" LT

STA. 2335+09 PI – 23°46'49" RT

STA. 2336+87 PI – 28°43'38" RT
STA. 2337+33 DRIVEWAY
STA. 2337+38 DRIVEWAY CENTERLINE
STA. 2338+44 DRIVEWAY EDGE

STA. 2339+44 PI – 46°49'34" LT

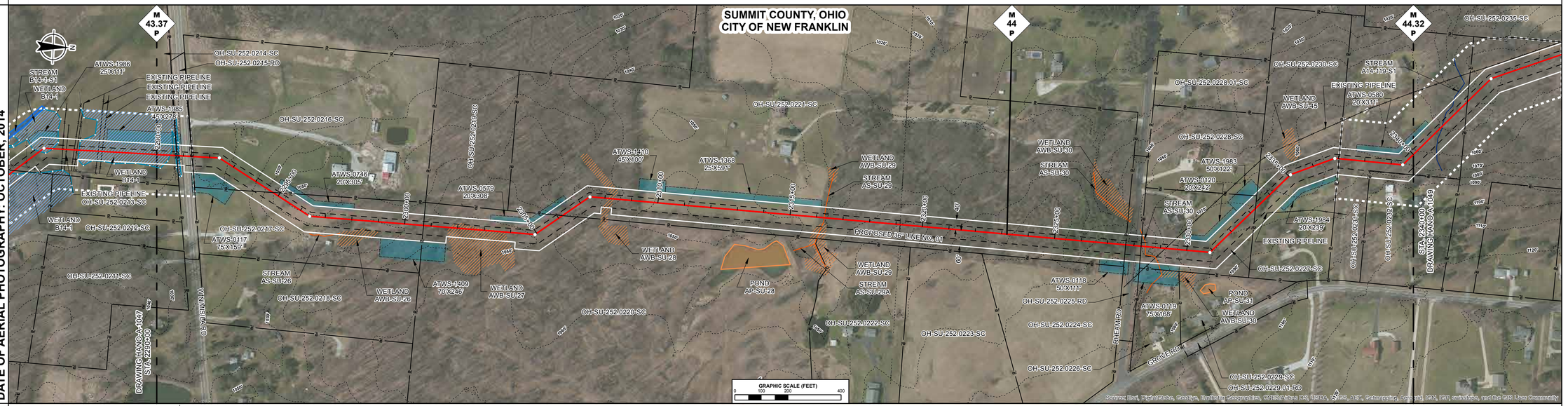
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2290+95 WETLAND B14-1 EXIT

STA. 2297+48 WETLAND AWB-SU-26 ENTER

STA. 2299+10 WETLAND AWB-SU-26 EXIT

STA. 2301+63 WETLAND AWB-SU-27 ENTER

STA. 2303+95 WETLAND AWB-SU-27 EXIT

STA. 2307+93 WETLAND AWB-SU-28 ENTER
STA. 2308+48 WETLAND AWB-SU-28 EXIT

STA. 2315+95 WETLAND AWB-SU-29 ENTER
STA. 2316+29 CENTERLINE OF STREAM AS-SU-29 TRIB TO TSUGA CREEK RIVER
STA. 2316+44 WETLAND AWB-SU-29 EXIT

STA. 2328+44 CENTERLINE OF STREAM AS-SU-30 TRIB TO TSUGA CREEK RIVER
STA. 2329+02 WETLAND AWB-SU-30 ENTER
STA. 2329+78 WETLAND AWB-SU-30 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

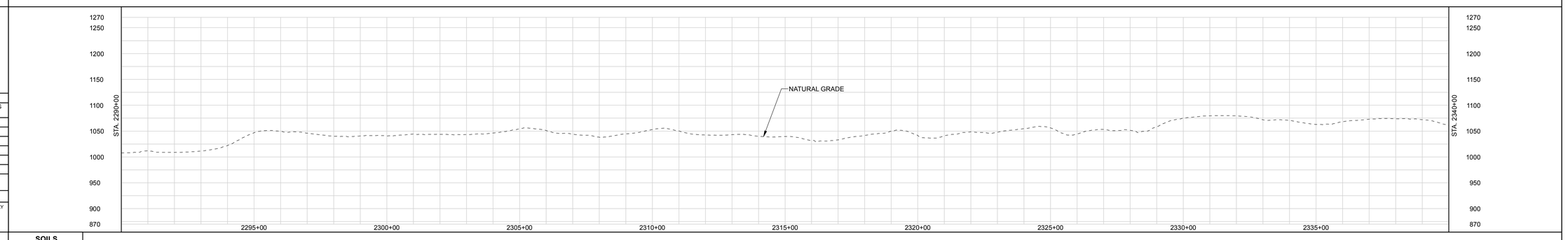
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 43.37 to M.P. 44.32
STA. 2290+00 to STA. 2340+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1048	REV. A

P:\205_UPSTREAM_PIPELINE\205K_OST\ubc\Nuan NEXUS PROPOSED MAINLINE PIPELINE 048.vf 266.pdf PLOT TIME: 2015-04-22 11:33:32

DRAWING NO.

RIGHT-OF-WAY

TRACT NUMBERS

2340+00	OH-SU-252.0231-SC	2342+84	OH-SU-252.0233-SC	2347+51	OH-SU-252.0234-SC	2348+00	OH-SU-252.0235-SC	2362+35	OH-SU-252.0239-RD	2365+98	OH-SU-252.0242-SC	2372+83	OH-SU-252.0247-SC	2374+42	OH-SU-252.0243-SC	2379+52	OH-SU-252.0249-SC	2385+54	OH-SU-252.0244-SC	2390+00
	284 FT. 17.2 RODS		467 FT. 28.3 RODS		49 FT. 3.0 RODS		1434 FT. 86.9 RODS		63 FT. 3.8 RODS		985 FT. 59.7 RODS		159 FT. 9.6 RODS		510 FT. 30.9 RODS		602 FT. 36.5 RODS		446 FT. 27.0 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2344+09 PI – 25°25'29" RT

STA. 2347+03 FENCE
STA. 2347+98 PI – 16°29'08" LT

STA. 2362+54 ROAD EDGE
STA. 2362+66 PAVED CENTER
STA. 2362+74 ROAD EDGE
STA. 2362+77 ROAD EDGE
STA. 2363+05 POWERLINE, CLEARANCE 71 FT.
STA. 2363+20 PI – 02°01'15" RT
STA. 2364+52 POWERLINE, CLEARANCE 61 FT.
STA. 2364+67 DRIVEWAY EDGE
STA. 2364+84 DRIVEWAY EDGE
STA. 2366+01 DRIVEWAY EDGE
STA. 2366+11 DRIVEWAY EDGE
STA. 2366+99 POWERLINE, CLEARANCE 55 FT.

STA. 2370+92 PI – 01°15'06" RT

STA. 2384+34 PI – 04°27'54" RT

STA. 2389+33 PI – 32°58'31" RT

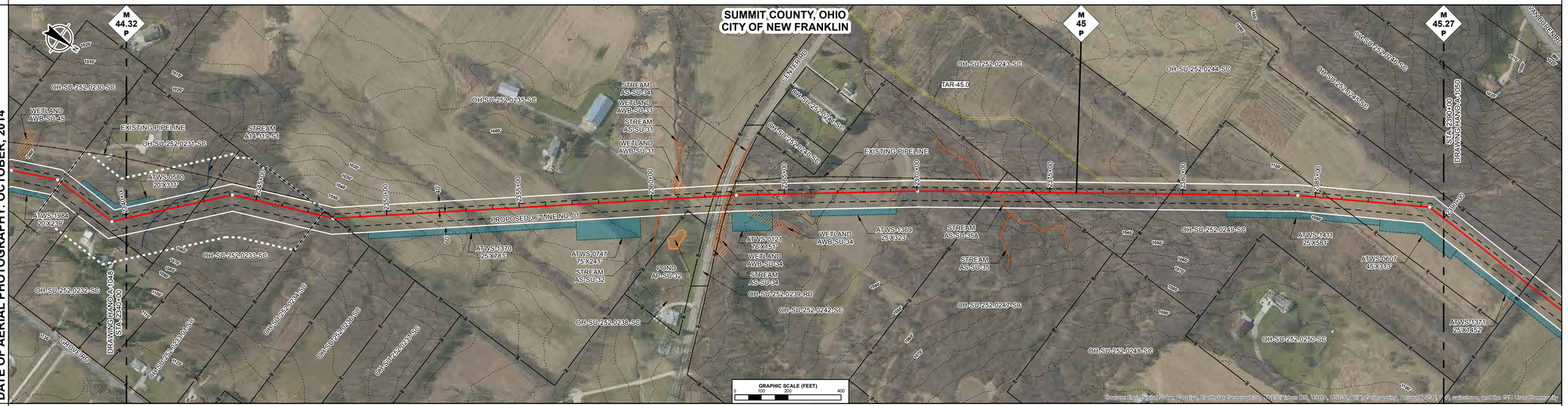
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2341+52 CENTERLINE OF STREAM A14-119-S1 TRIB TO TUSCARAWAS RIVER

STA. 2360+61 CENTERLINE OF STREAM AS-SU-32 TRIB TO TUSCARAWAS RIVER
STA. 2360+72 WETLAND AWB-SU-31 ENTER
STA. 2361+27 WETLAND AWB-SU-31 EXIT
STA. 2362+18 WETLAND AWB-SU-33 ENTER
STA. 2362+69 WETLAND AWB-SU-33 EXIT
STA. 2362+69 WETLAND AWB-SU-34 ENTER
STA. 2362+86 CENTERLINE OF STREAM AS-SU-34 TRIB TO TUSCARAWAS RIVER
STA. 2363+13 WETLAND AWB-SU-34 EXIT
STA. 2363+40 WETLAND AWB-SU-34 ENTER
STA. 2364+53 WETLAND AWB-SU-34 EXIT

STA. 2372+67 CENTERLINE OF STREAM AS-SU-35 TRIB TO TUSCARAWAS RIVER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

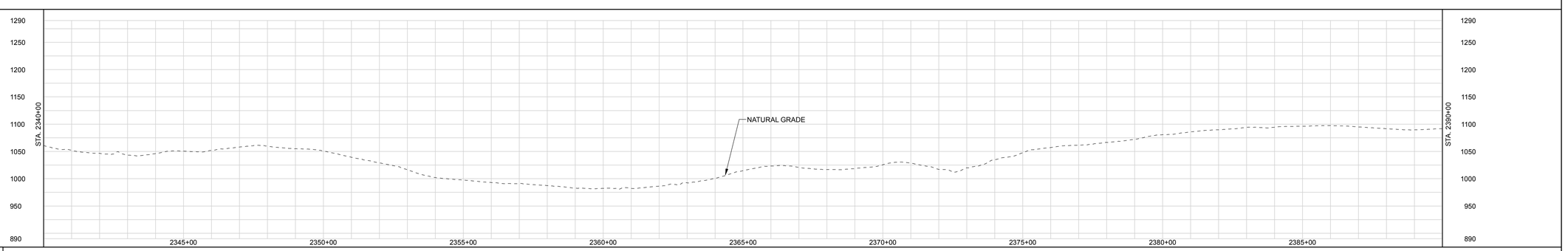
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\205_UPSTREAM_PIPELINE\209K_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 24in.rt266.prj# PLOT TIME: 2015-04-21 14:33:00

DWG. NO. | DESCRIPTION — REFERENCE DRAWINGS

REV	DSN	CK	DESCRIPTION
A			ISSUED FOR FERC

REVISIONS

ITEM NO. | DESCRIPTION | LN. FT. — MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:

ENGINEERING APPROVALS

TITLE	BID SIGNATURE	BID DATE	CONSTRUCTION SIGNATURE	CONSTRUCTION DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 44.32 to M.P. 45.27
STA. 2340+00 to STA. 2390+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | HANO-A-1049 | REV. A

RIGHT-OF-WAY

TRACT NUMBERS

2390+00	OH-SU-252.0244-SC	2394+03	OH-SU-252.0251-SC	2397+23	OH-SU-437.0000-SC	2413+70	OH-SU-439.0000-SC	2414+32	OH-SU-438.0000-SC	2418+30	OH-SU-441.0000-RD	2418+98	OH-SU-442.0000-SC	2421+36	OH-SU-444.0000-SC	2429+05	OH-SU-446.0000-WB	2429+98	OH-SU-444.0000-SC	2430+40	OH-SU-447.0000-RD	2430+74	OH-SU-444.0000-SC	2431+33	OH-SU-445.0000-SC	2431+70	OH-SU-448.0000-RR	2432+17	OH-SU-449.0000-SC	2433+87	OH-SU-450.0000-SC	2440+00
	403 FT.		320 FT.		1647 FT.		62 FT.		398 FT.		68 FT.		238 FT.		769 FT.		93 FT.		42 FT.		34 FT.		59 FT.		37 FT.		47 FT.		170 FT.		613 FT.	
	24.4 RODS		19.4 RODS		99.8 RODS		3.8 RODS		24.1 RODS		4.1 RODS		14.4 RODS		46.6 RODS		5.6 RODS		2.5 RODS		2.1 RODS		3.6 RODS		2.2 RODS		2.8 RODS		10.3 RODS		37.2 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2398+24 PI – 06°28'08" LT

STA. 2413+58 POWERLINE (LIDAR)
STA. 2413+72 TRAIL (LIDAR) EDGE
STA. 2413+80 TRAIL (LIDAR) EDGE
STA. 2414+64 PI – 57°39'58" LT

STA. 2417+54 HDD ENTRY
STA. 2418+29 TOP BANK
STA. 2418+35 DITCH DEPTH 0 FT. CENTERLINE
STA. 2418+42 TOP BANK
STA. 2418+49 EDGE
STA. 2418+59 PAVED VAN BUREN RD CENTERLINE
STA. 2418+72 ROAD EDGE
STA. 2418+74 TOP BANK
STA. 2418+78 DITCH DEPTH 0 FT. CENTERLINE
STA. 2418+84 TOP BANK
STA. 2418+97 POWERLINE CLEARANCE 16 FT.

STA. 2430+51 UNKNOWN (LIDAR) EDGE
STA. 2430+59 UNKNOWN (LIDAR) EDGE

STA. 2438+77 HDD EXIT

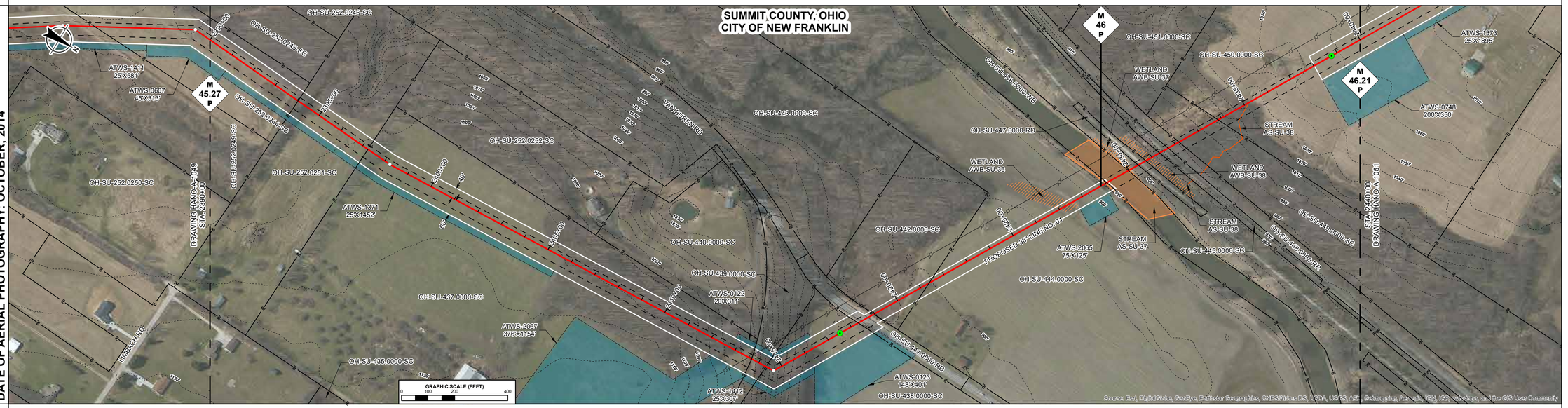
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2426+84 WETLAND AWB-SU-36 ENTER
STA. 2427+77 WETLAND AWB-SU-38 EXIT
STA. 2428+84 STREAM AS-SU-38 CROSSOVER
STA. 2429+37 WETLAND AWB-SU-37 ENTER
STA. 2429+98 WETLAND AWB-SU-37 CENTER
STA. 2430+14 WETLAND AWB-SU-37 EXIT
STA. 2430+13 STREAM AS-SU-37 CROSSOVER
STA. 2430+47 STREAM AS-SU-37 EXIT
STA. 2430+67 WETLAND AWB-SU-37 ENTER
STA. 2431+17 WETLAND AWB-SU-38 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

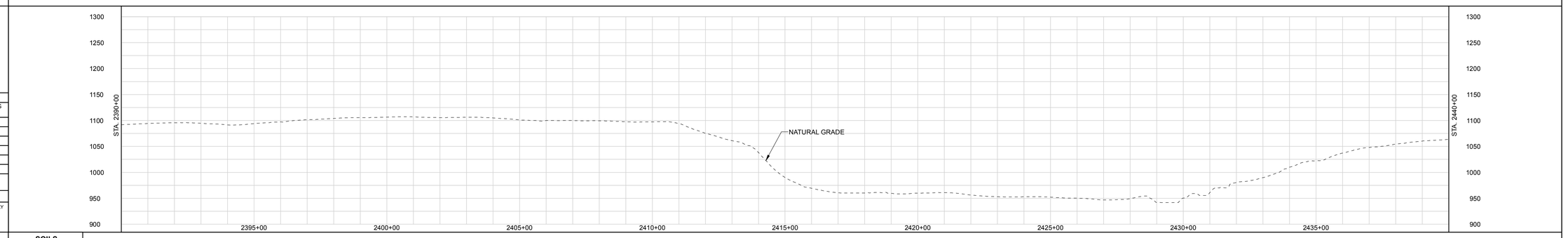
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\295_UPSTREAM_PIPELINE\295K_GIS\ArcMap\exhibits\NEXUS PROPOSED MAINLINE PIPELINE (50)\v1\295k.pdf - PLOT TIME: 2015-04-21 14:38:48

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	REVISIONS		MATERIALS

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 45.27 to M.P. 46.21
STA. 2390+00 to STA. 2440+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1050	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

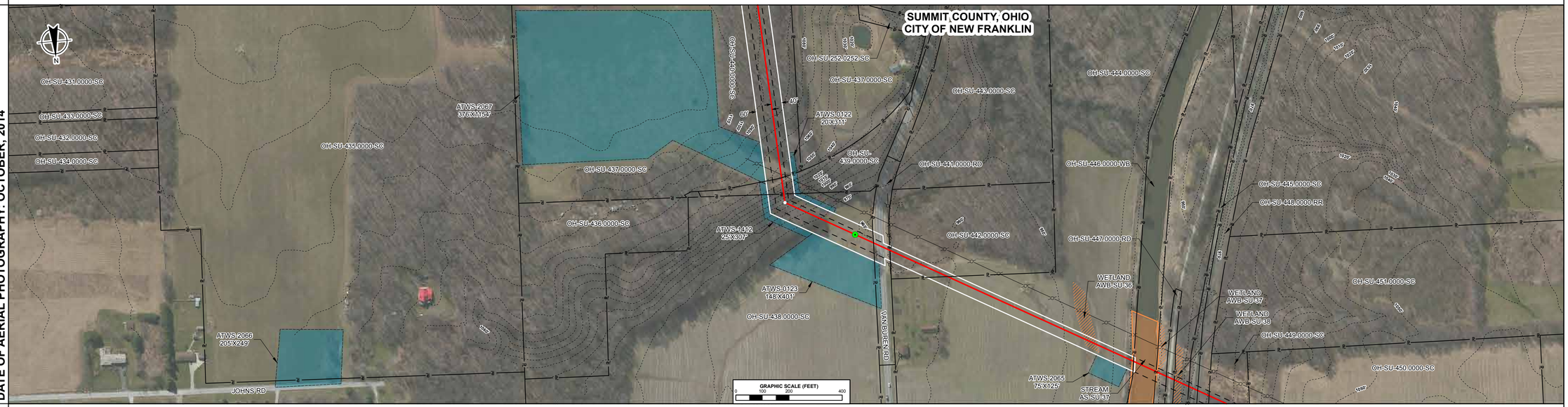
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W)
- RAILROAD TRACK
- TELEPHONE (T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (F)
- SLOPE BREAKERS (○)
- TRENCH PLUG (▲)

PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)

LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

P:\26_UPSTREAM_PIPELINE\29XX_GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 050-A-tif 26f.mxd - PLOT TIME: 2015-04-21 16:44:59

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 46.21 to M.P. 47.16
STA. 2414+60 to STA. 2414+74
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1050-A	REV. A

RIGHT-OF-WAY

TRACT NUMBERS

2440+00	OH-SU-450.0000-SC 630 FT. 38.2 RODS	2446+30	OH-SU-454.0000-SC 217 FT. 13.2 RODS	2448+47	OH-SU-450.0000-SC 158 FT. 9.6 RODS	2450+05	OH-SU-453.0000-SC 166 FT. 10.1 RODS	2451+71	OH-SU-455.0000-SC 523 FT. 31.7 RODS	2456+94	OH-SU-456.0000-SC 753 FT. 45.6 RODS	2464+47	OH-SU-458.0000-RD 61 FT. 3.7 RODS	2465+08	OH-SU-460.0000-SC 537 FT. 32.5 RODS	2470+45	OH-SU-464.0000-SC 646 FT. 39.2 RODS	2476+91	OH-SU-463.0000-SC 200 FT. 12.1 RODS	2478+91	OH-SU-464.0000-SC 924 FT. 56.0 RODS	2488+15	OH-SU-465.0000-SC 185 FT. 11.2 RODS	2490+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2446+44 PI – 09°36'41" RT

STA. 2454+55 PI – 39°27'37" LT

STA. 2464+51 UNDERGROUND UNKNOWN
STA. 2464+53 TOP BANK
STA. 2464+57 DITCH, DEPTH 1.0 FT, CENTERLINE
STA. 2464+60 TOP BANK
STA. 2464+61 ROAD EDGE
STA. 2464+72 PAVED, FAIRLAND RD, CENTERLINE
STA. 2464+82 ROAD EDGE
STA. 2465+02 TOP BANK
STA. 2465+42 PI – 60°17'38" RT

STA. 2469+44 TOP BANK
STA. 2469+65 CREEK, DEPTH 1.0 FT, CENTERLINE
STA. 2469+85 TOP BANK
STA. 2469+93 FENCE
STA. 2470+14 FENCE

STA. 2488+40 PI – 13°31'41" LT

STA. 2489+23 PI – 13°06'49" RT

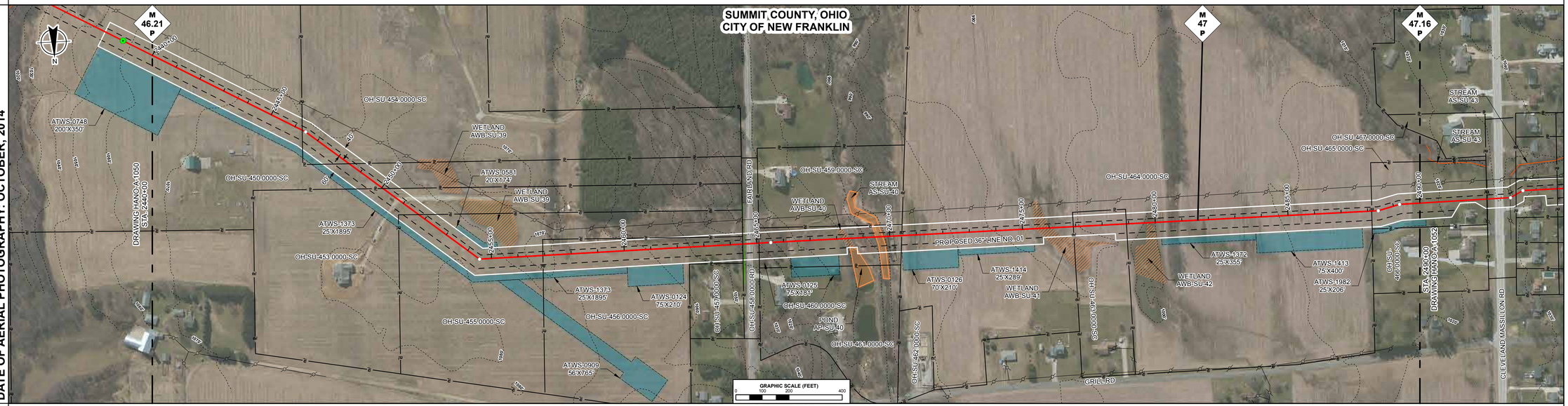
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (A 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD PAR-0.0
- TEMPORARY ACCESS ROAD TAR-0.0
- PARCEL TRACT NO OH-CO-011.0000-SC
- PROPERTY LINE
- CONTOUR 120'
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE W—W
- RAILROAD TRACK
- TELEPHONE T—T
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2455+57 WETLAND AWB-SU-39 ENTER
STA. 2455+80 WETLAND AWB-SU-39 EXIT

STA. 2468+03 WETLAND AWB-SU-40 ENTER
STA. 2468+49 POND TRIB TO PANCAKE CREEK AP-SU-40 ENTER
STA. 2468+70 WETLAND AWB-SU-40 EXIT
STA. 2468+84 POND TRIB TO PANCAKE CREEK AP-SU-40 EXIT
STA. 2469+37 STREAM PANCAKE CREEK AS-SU-40 ENTER
STA. 2469+84 STREAM PANCAKE CREEK AS-SU-40 EXIT

STA. 2475+44 WETLAND AWB-SU-41 ENTER
STA. 2476+64 WETLAND AWB-SU-41 EXIT

STA. 2479+62 WETLAND AWB-SU-42 ENTER
STA. 2480+41 WETLAND AWB-SU-42 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

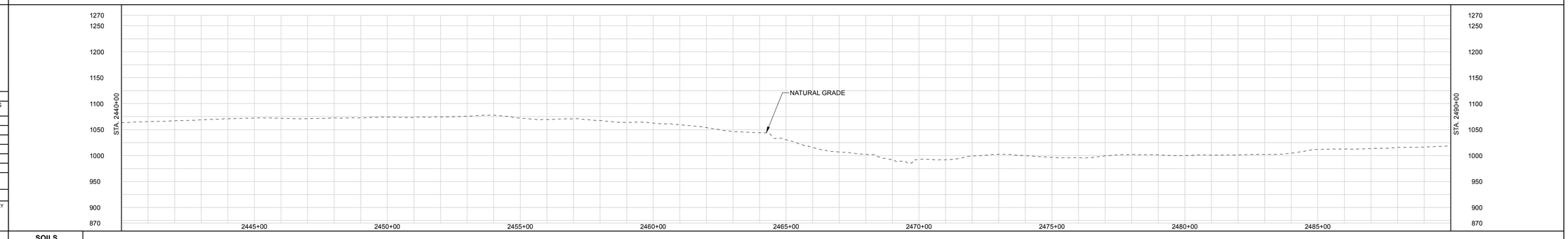
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 46.21 to M.P. 47.16
STA. 2440+00 to STA. 2490+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1051	REV. A

P:\265_UPSTREAM_PIPELINE\265K GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 051 of 266.tcp PLOT TIME: 2015-04-22 17:47:45

DRAWING NO.

RIGHT-OF-WAY

TRACT NUMBERS

2490+00	OH-SU-465.0000-SC	252 FT. / 15.3 RODS	2492+52	OH-SU-468.0000-RD	113 FT. / 6.8 RODS	2493+65	OH-SU-471.0000-SC	159 FT. / 9.6 RODS	2495+24	OH-SU-477.0000-SC	171 FT. / 10.4 RODS	2496+95	OH-SU-481.0000-RD	60 FT. / 3.6 RODS	2497+55	OH-SU-485.0000-SC	183 FT. / 11.1 RODS	2499+38	OH-SU-493.0000-SC	1119 FT. / 67.8 RODS
2510+57	OH-SU-504.0000-RD	61 FT. / 3.7 RODS	2511+18	OH-SU-507.0000-SC	848 FT. / 51.4 RODS	2519+66	OH-SU-512.0000-SC	296 FT. / 17.9 RODS	2522+62	OH-SU-513.0000-SC	276 FT. / 16.7 RODS	2525+38	OH-SU-514.0000-SC	298 FT. / 18.1 RODS	2528+36	OH-SU-516.0000-SC	219 FT. / 13.3 RODS	2530+55	OH-SU-517.0000-SC	260 FT. / 15.8 RODS
2533+15	OH-SU-519.0000-SC	538 FT. / 32.6 RODS	2538+53	OH-SU-521.0000-RD	28 FT. / 1.7 RODS	2538+81	OH-WA-001.0000-SC	119 FT. / 7.2 RODS	2540+00											

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2490+36 BUILDING, 92 FT. RIGHT
STA. 2491+24 BUILDING, 92 FT. RIGHT
STA. 2492+55 POWERLINE, CLEARANCE 20 FT.
STA. 2492+79 ROAD EDGE
STA. 2492+86 PAVED, MASSILLON RD CENTERLINE
STA. 2493+13 ROAD EDGE
STA. 2493+32 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2493+40 POWERLINE, CLEARANCE 20 FT.
STA. 2493+42 PI – 28°03'51" LT
STA. 2493+56 PI – 28°27'07" RT
STA. 2495+30 FENCE
STA. 2495+51 BUILDING, 11 FT. RIGHT
STA. 2497+00 POWERLINE, CLEARANCE 20 FT.
STA. 2497+06 TOP BANK
STA. 2497+08 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2497+10 TOP BANK
STA. 2497+18 ROAD EDGE
STA. 2497+30 PAVED, PINTO RD CENTERLINE
STA. 2497+40 ROAD EDGE
STA. 2497+48 CULVERT
STA. 2497+66 UNDERGROUND UNKNOWN
STA. 2498+59 PI – 15°38'28" RT
STA. 2499+17 BUILDING, 37 FT. RIGHT
STA. 2499+33 PI – 00°53'52" RT
STA. 2501+40 PI – 17°03'54" LT
STA. 2505+55 PI – 11°37'00" RT
STA. 2508+96 PI – 22°11'47" LT
STA. 2510+68 POWERLINE, CLEARANCE 20 FT.
STA. 2510+92 PAVED, KUNSILE RD CENTERLINE
STA. 2511+03 ROAD EDGE
STA. 2511+15 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2511+16 POWERLINE, CLEARANCE 20 FT.
STA. 2511+64 TOWER, 142 FT. LEFT
STA. 2514+18 PI – 11°08'30" RT
STA. 2517+89 GAS PL.
STA. 2520+79 TOWER, 90 FT. LEFT
STA. 2522+51 FENCE
STA. 2524+03 FENCE
STA. 2524+54 FENCE
STA. 2527+29 FENCE
STA. 2527+30 FENCE
STA. 2528+89 TOWER, 90 FT. LEFT
STA. 2530+52 PI – 27°37'06" RT
STA. 2535+02 PI – 26°23'02" LT
STA. 2538+71 ROAD EDGE
STA. 2538+82 MUNICIPALITY
STA. 2538+82 PAVED, TAYLOR RD CENTERLINE
STA. 2539+02 ROAD EDGE
STA. 2539+33 PI – 11°43'27" LT

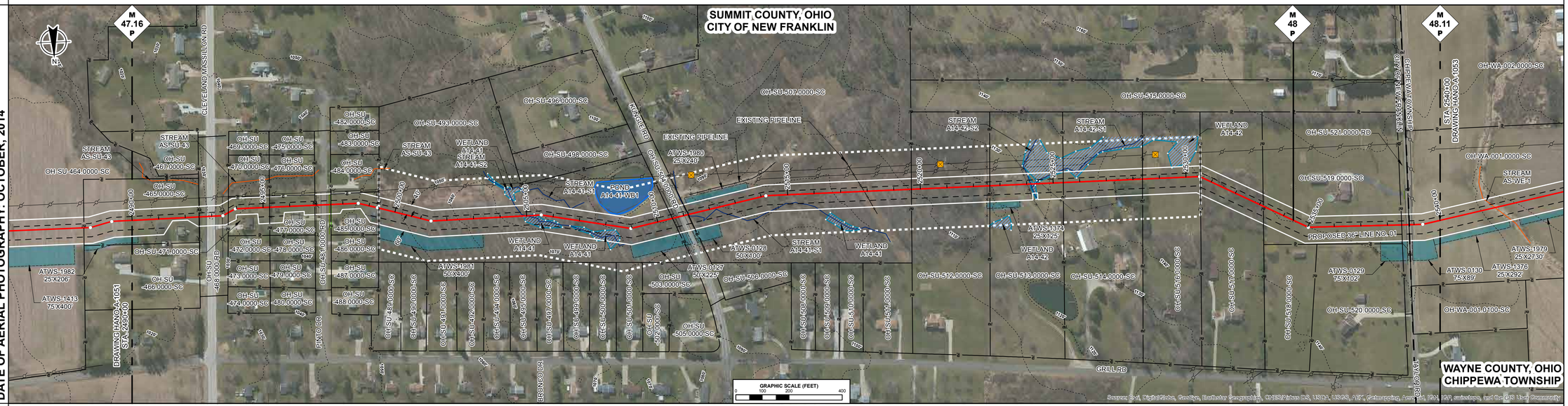
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS WATER OIL OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2504+89 WETLAND A14-41 ENTER
STA. 2505+00 CENTERLINE OF STREAM A14-41-S2 TRIB TO PANCAKE CREEK
STA. 2505+41 WETLAND A14-41 EXIT
STA. 2506+68 WETLAND A14-41 ENTER
STA. 2508+61 WETLAND A14-41 EXIT
STA. 2511+20 CENTERLINE OF STREAM A14-41-S1 TRIB TO PANCAKE CREEK
STA. 2524+06 WETLAND A14-42 ENTER
STA. 2524+16 CENTERLINE OF STREAM A14-42-S2 TRIB TO PANCAKE CREEK
STA. 2524+30 CENTERLINE OF STREAM A14-42-S1 TRIB TO PANCAKE CREEK
STA. 2525+41 WETLAND A14-42 EXIT
STA. 2525+64 WETLAND A14-42 ENTER
STA. 2526+14 WETLAND A14-42 EXIT
STA. 2529+48 WETLAND A14-42 ENTER
STA. 2529+60 WETLAND A14-42 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

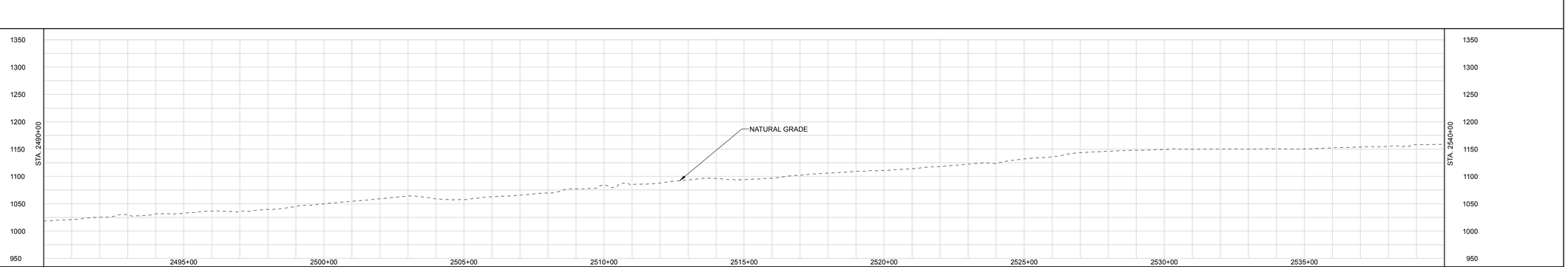
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 47.16 to M.P. 48.11
STA. 2490+00 to STA. 2540+00
ALIGNMENT SHEET

LOC. SUMMIT COUNTY, OHIO AND WAYNE COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1052	REV. A

P:\205_UPSTREAM_PIPELINE\205K GIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 052.tr1\266.tr1.mxd PLOT TIME: 2015-04-21 16:27:58

DIG #

RIGHT-OF-WAY

TRACT NUMBERS

2540+00 | OH-WA-001.0000-SC: 1204 FT. / 73.0 RODS | 2552+04 | OH-WA-003.0000-SC: 1297 FT. / 78.6 RODS | 2565+01 | OH-WA-005.0000-SC: 952 FT. / 57.7 RODS | 2574+53 | OH-WA-008.0000-RD: 109 FT. / 6.6 RODS | 2575+62 | OH-WA-010.0000-SC: 262 FT. / 15.9 RODS | 2578+24 | OH-WA-012.0000-SC: 863 FT. / 52.3 RODS | 2586+87 | OH-WA-013.0000-SC: 26 FT. / 1.6 RODS | 2587+13 | OH-WA-012.0000-SC: 139 FT. / 8.4 RODS | 2588+52 | OH-WA-011.0000-SC: 148 FT. / 9.0 RODS | 2590+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2546+33 TOWER, 181 FT. LEFT

STA. 2551+12 PI - 11°10'06" RT
STA. 2552+16 DRIVEWAY
STA. 2552+21 DRIVEWAY
CENTERLINE
STA. 2552+25 DRIVEWAY
EDGE
STA. 2553+43 POWERLINE, 45 FT. RIGHT
STA. 2553+57 POWERLINE, CLEARANCE 35 FT.
STA. 2553+71 POWERLINE, CLEARANCE 45 FT.
STA. 2554+73 TOWER, 90 FT. LEFT
STA. 2564+74 PI - 00°35'13" LT
STA. 2565+25 TOWER, 225 FT. LEFT

STA. 2563+15 DRIVEWAY
STA. 2563+21 DRIVEWAY
CENTERLINE
STA. 2563+27 DRIVEWAY
EDGE
STA. 2563+45 TOWER, 90 FT. LEFT
STA. 2564+41 TOWER, 203 FT. LEFT
STA. 2564+66 DRIVEWAY
CENTERLINE
STA. 2564+72 DRIVEWAY
CENTERLINE
STA. 2564+77 DRIVEWAY
EDGE
STA. 2565+20 FENCE

STA. 2572+75 TOWER, 203 FT. LEFT
STA. 2573+88 TOWER, 90 FT. LEFT
STA. 2573+54 FENCE
STA. 2573+71 FENCE
STA. 2574+36 ROAD DEPTH 0 FT. CENTERLINE
STA. 2574+38 ROAD EDGE
STA. 2574+74 ROAD EDGE
STA. 2575+17 ROAD EDGE
STA. 2575+33 PAVED, SH 21 CENTERLINE
STA. 2575+54 ROAD EDGE
STA. 2575+75 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2576+19 FENCE

STA. 2578+21 FENCE

STA. 2581+26 TOWER, 203 FT. LEFT
STA. 2581+73 TOWER, 90 FT. LEFT

STA. 2586+45 PI - 54°23'59" LT
STA. 2586+53 POWERLINE, CLEARANCE 100 FT.
STA. 2587+45 POWERLINE, CLEARANCE 100 FT.
STA. 2587+90 POWERLINE, CLEARANCE 100 FT.
STA. 2588+58 POWERLINE, CLEARANCE 100 FT.
STA. 2588+80 POWERLINE, CLEARANCE 100 FT.

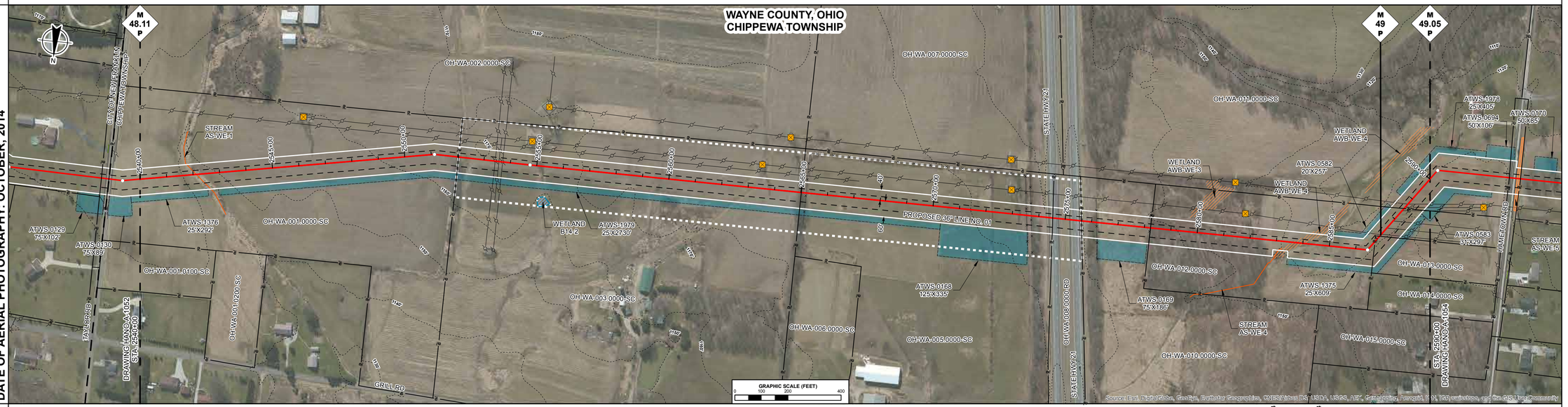
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
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- METERING & REGULATION STATION (M&R)
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- DELINEATED WETLAND BOUNDARY
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- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

ENVIRONMENTAL DATA

STA. 2542+12 CENTERLINE OF STREAM AS-WE-1 TRIB TO PANCAKE CREEK

STA. 2583+08 WETLAND AWB-WE-4 ENTER

STA. 2584+77 WETLAND AWB-WE-4 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED (F)
- SLOPE BREAKERS
- TRENCH PLUG

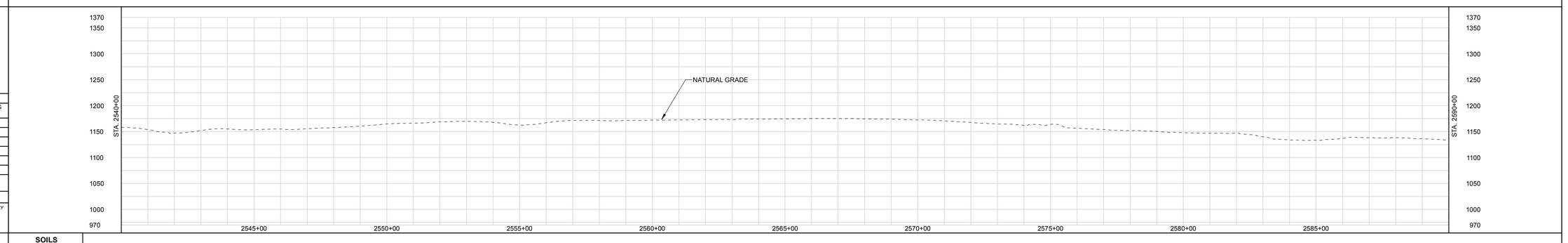
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS

LAND USE

% SLOPE

GENERAL NOTES:

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2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 48.11 to M.P. 49.05
STA. 2540+00 to STA. 2590+00
ALIGNMENT SHEET

LOC. WAYNE COUNTY, OHIO

NEXUS GAS TRANSMISSION

22-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1053	REV. A

P:\29S_UPSTREAM_PIPELINE\29NX_CIS\TurboRouter NEXUS PROPOSED MAINLINE PIPELINE 053 of 266.pdf - PLOT TIME: 2015-04-22 09:37:27

IG.#

RIGHT-OF-WAY

TRACT NUMBERS

2590+00	OH-WA-011.0000-SC	2593+16	OH-WA-016.0000-RD	2593+58	OH-WA-020.0001-SC	2603+91	OH-WA-021.0000-SC	2609+47	OH-WA-022.0000-SC	2921+51	OH-WA-025.0000-SC	2922+36	OH-WA-026.0000-SC	2922+60	OH-WA-025.0000-SC	2923+77	OH-WA-028.0000-RD	2924+26	OH-WA-021.0000-SC	2636+26	OH-WA-031.0000-SC	2636+37	OH-WA-030.0000-SC	2640+00
	316 FT. 19.2 RODS		42 FT. 2.5 RODS		1033 FT. 62.6 RODS		556 FT. 33.7 RODS		1204 FT. 73.0 RODS		85 FT. 5.2 RODS		24 FT. 1.5 RODS		117 FT. 7.1 RODS		48 FT. 2.9 RODS		1201 FT. 72.8 RODS		11 FT. 0.7 RODS		363 FT. 22.0 RODS	

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2590+44 PI – 54°26'21" RT
STA. 2592+31 TOWER, 122 FT. RIGHT
STA. 2593+21 ROAD EDGE
STA. 2593+31 PAVED, MARSHYORK RD CENTERLINE
STA. 2593+40 ROAD EDGE
STA. 2601+15 TOWER, 120 FT. RIGHT
STA. 2601+81 PI – 53°02'09" RT
STA. 2603+97 FENCE
STA. 2621+00 TOWER, 116 FT. RIGHT
STA. 2622+38 PI – 40°27'17" RT
STA. 2623+57 TOWER, 198 FT. RIGHT
STA. 2623+68 POWERLINE, CLEARANCE 15 FT.
STA. 2623+98 ROAD EDGE
STA. 2624+08 PAVED, GRILL RD CENTERLINE
STA. 2624+14 POWERLINE (SCALED)
STA. 2624+38 ROAD EDGE
STA. 2625+88 POWERLINE (LIDAR)
STA. 2627+25 PI – 40°42'30" LT

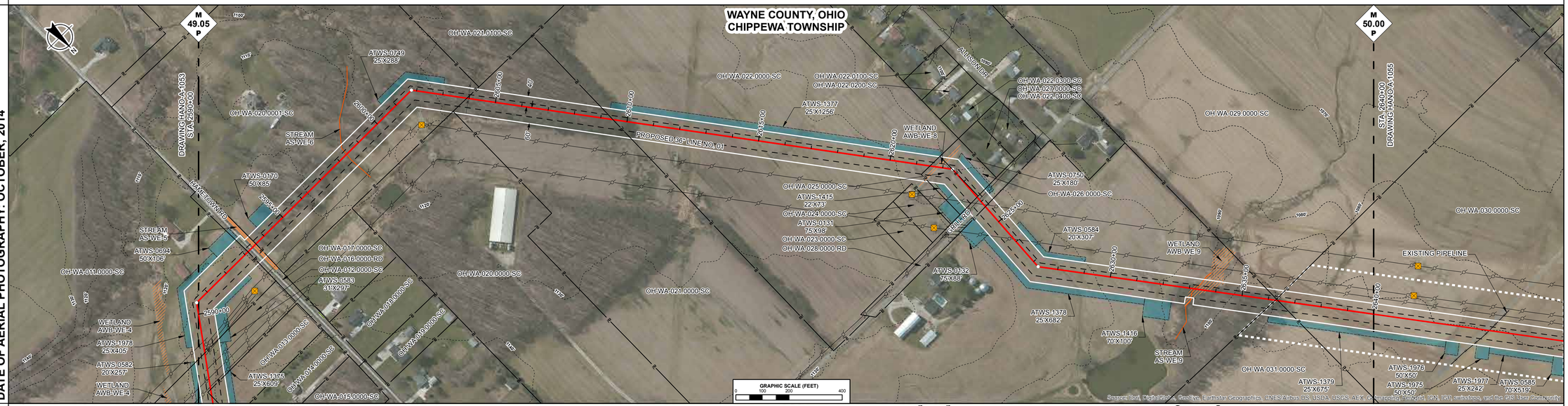
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2593+44 STREAM TRIB TO SILVER CREEK AS-WE-5 ENTER
STA. 2593+60 STREAM TRIB TO SILVER CREEK AS-WE-5 EXIT
STA. 2598+37 CENTERLINE OF STREAM AS-WE-6 TRIB TO SILVER CREEK
STA. 2621+32 WETLAND AWB-WE-8 ENTER
STA. 2622+38 WETLAND AWB-WE-8 EXIT
STA. 2632+93 WETLAND AWB-WE-9 ENTER
STA. 2633+23 CENTERLINE OF STREAM AS-WE-9 TRIB TO SILVER CREEK
STA. 2634+26 WETLAND AWB-WE-9 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

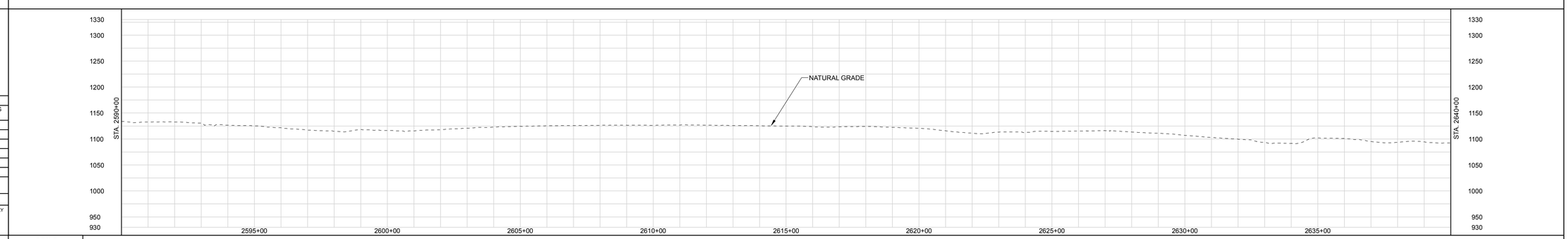
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 49.05 to M.P. 50.00
STA. 2590+00 to STA. 2640+00
ALIGNMENT SHEET
LOC. WAYNE COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1054	REV. A

P:\205_UPSTREAM_PIPELINE\205K GIS\ToolbRuun NEXUS PROPOSED MAINLINE PIPELINE 054 of 266.pdf PLOT TIME: 2015-04-21 16:34:27

RIGHT-OF-WAY

TRACT NUMBERS

2640+00 | OH-WA-030.0000-SC: 1660 FT. / 100.6 RODS | 2656+60 | OH-WA-032.0000-SC: 795 FT. / 48.2 RODS | 2664+55 | OH-WA-034.0000-RD: 42 FT. / 2.5 RODS | 2664+97 | OH-WA-035.0000-SC: 305 FT. / 18.5 RODS | 2668+02 | OH-WA-036.0000-SC: 555 FT. / 33.6 RODS | 2673+57 | OH-WA-043.0000-SC: 238 FT. / 14.4 RODS | 2675+95 | OH-WA-046.0000-SC: 27 FT. / 1.6 RODS | 2676+22 | OH-WA-047.0000-RD: 179 FT. / 10.8 RODS | 2678+01 | OH-WA-048.0000-SC: 193 FT. / 11.7 RODS | 2679+94 | OH-WA-048.0001-RD: 30 FT. / 1.8 RODS | 2680+24 | OH-WA-049.0000-SC: 476 FT. / 28.8 RODS | 2685+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2641+40 TOWER, 90 FT. LEFT
STA. 2641+40 TOWER, 203 FT. LEFT
STA. 2644+10 DRIVEWAY EDGE
STA. 2644+17 DRIVEWAY CENTERLINE
STA. 2644+26 DRIVEWAY EDGE
STA. 2644+39 GAS PL
STA. 2649+20 TOWER, 90 FT. LEFT
STA. 2649+30 TOWER, 203 FT. LEFT
STA. 2652+27 TOP BANK
STA. 2652+37 TOE BANK
STA. 2652+81 CREEK, DEPTH 0.5 FT. CENTERLINE
STA. 2652+93 TOP BANK
STA. 2656+99 TOP BANK
STA. 2657+07 CREEK, DEPTH 0.5 FT. CENTERLINE
STA. 2657+20 TOP BANK
STA. 2657+73 TOWER, 90 FT. LEFT
STA. 2657+74 TOWER, 203 FT. LEFT
STA. 2664+46 POWERLINE, CLEARANCE 15 FT.
STA. 2664+52 TOP BANK
STA. 2664+61 CREEK, DEPTH 0 FT. CENTERLINE
STA. 2664+62 TOP BANK
STA. 2664+68 EDGE PAVED, N PORTAGE ST
STA. 2664+75 PAVED, N PORTAGE ST CENTERLINE
STA. 2664+80 DITCH EDGE
STA. 2664+88 TOP BANK
STA. 2664+95 DITCH, DEPTH 0 FT. CENTERLINE
STA. 2664+99 TOP BANK
STA. 2665+03 POWERLINE, CLEARANCE 15 FT.
STA. 2665+57 TOWER, 90 FT. LEFT
STA. 2666+33 VALVE FENCE
STA. 2666+38 MLV-5
STA. 2666+83 VALVE FENCE
STA. 2673+17 TOWER, 203 FT. LEFT
STA. 2673+19 TOWER, 90 FT. LEFT
STA. 2676+11 DRIVEWAY EDGE
STA. 2676+20 DRIVEWAY EDGE
STA. 2676+35 FENCE
STA. 2676+71 STATE HWY 585 (SCALED) CENTERLINE
STA. 2677+05 STATE HWY 585 (SCALED) CENTERLINE
STA. 2678+46 PI -- 73°53'35" LT
STA. 2679+05 ROAD EDGE
STA. 2679+45 FENCE
CALABOONE RD CENTERLINE
STA. 2680+12 ROAD EDGE
STA. 2680+32 POWERLINE (LIDAR)
STA. 2680+79 POWERLINE (LIDAR)
STA. 2681+97 POWERLINE (LIDAR)

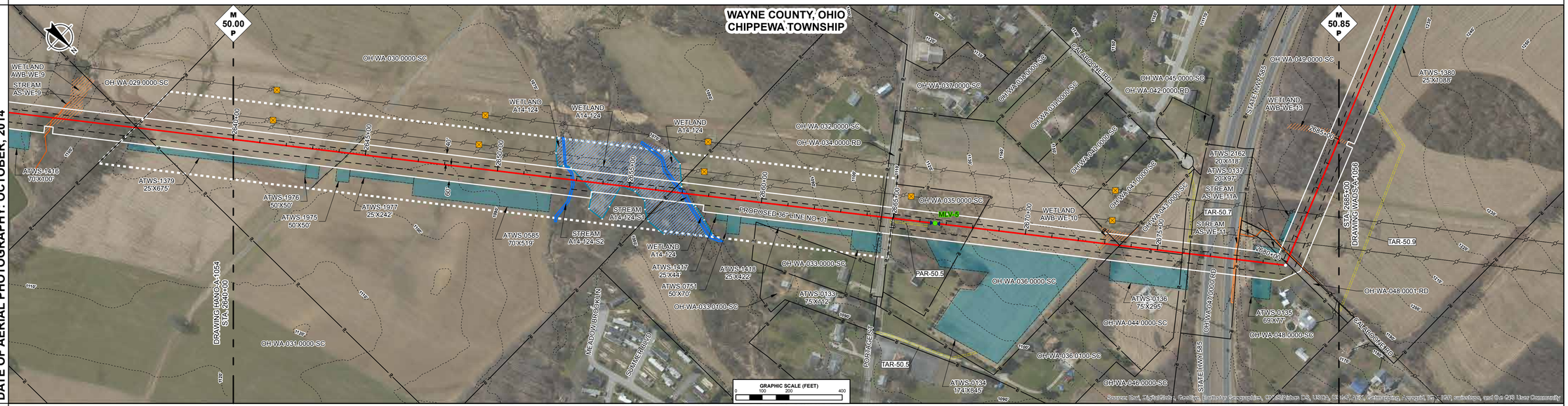
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
- DELINEATED WETLAND BOUNDARY
- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE (W—W)
- RAILROAD TRACK
- TELEPHONE (T—T)
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2659+69 STREAM TRIB TO SILVER CREEK A14-124-S2 ENTER
STA. 2652+79 WETLAND A14-124 ENTER
STA. 2652+93 STREAM TRIB TO SILVER CREEK A14-124-S2 EXIT
STA. 2656+54 STREAM SILVER CREEK A14-124-S1 ENTER
STA. 2656+70 WETLAND A14-124 ENTER
STA. 2656+96 WETLAND A14-124 EXIT
STA. 2657+23 WETLAND A14-124 EXIT
STA. 2657+37 STREAM SILVER CREEK A14-124-S1 EXIT
STA. 2672+78 WETLAND AWB-WE-10 ENTER
STA. 2673+06 WETLAND AWB-WE-10 EXIT
STA. 2677+92 STREAM TRIB TO SILVER CREEK AS-WE-11 ENTER
STA. 2678+01 STREAM TRIB TO SILVER CREEK AS-WE-11 EXIT
STA. 2680+27 CENTERLINE OF STREAM AS-WE-11A TRIB TO SILVER CREEK
STA. 2684+91 WETLAND AWB-WE-13 ENTER

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG

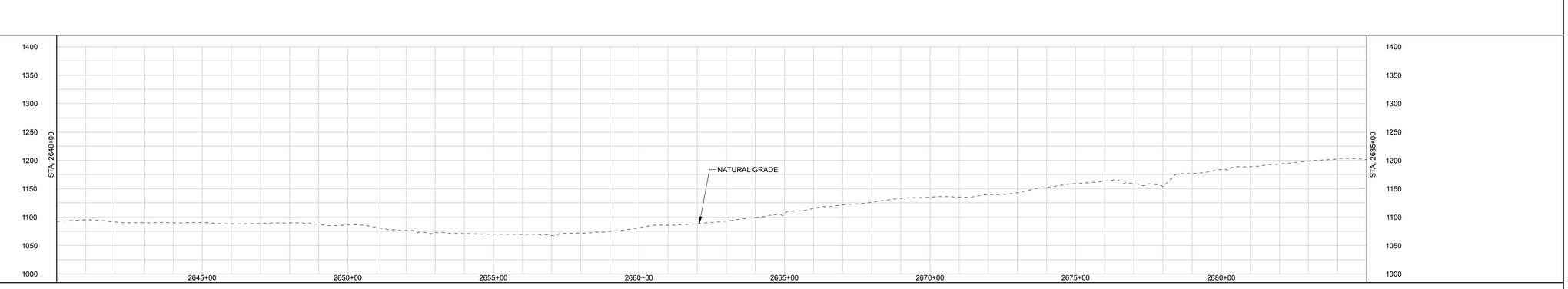
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		A			ISSUED FOR FERC	MATERIALS		

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

DRAWN BY:	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 50.00 to M.P. 50.85
STA. 2640+00 to STA. 2685+00
ALIGNMENT SHEET

LOC. WAYNE COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015	W.B.S.	Scale 1" = 200'	HANO-A-1055	REV. A

P:\265_UPSTREAM_PIPELINE\299K GIS\ArcMap\ NEXUS PROPOSED MAINLINE PIPELINE 855 of 266.pdf PLOT TIME: 2015-04-21 16:40:35

DWG. NO.

RIGHT-OF-WAY

TRACT NUMBERS

2685+00

OH-WA-049.0000-SC
2377 FT.
144.1 RODS

2708+77 — 2709+06
OH-WA-062.0000-RD
29 FT.
1.8 RODS

OH-WA-063.0000-SC
2094 FT.
126.9 RODS

2730+00

SURVEY DATA

SURVEY COMPANY:
FIELD BOOK:
PAGES:

STA. 2698+80 PI – 19°39'22" RT

STA. 2708+82 GATES ST
(CENTERLINE)
STA. 2709+44 PI – 40°09'45" LT

STA. 2725+30 FENCE

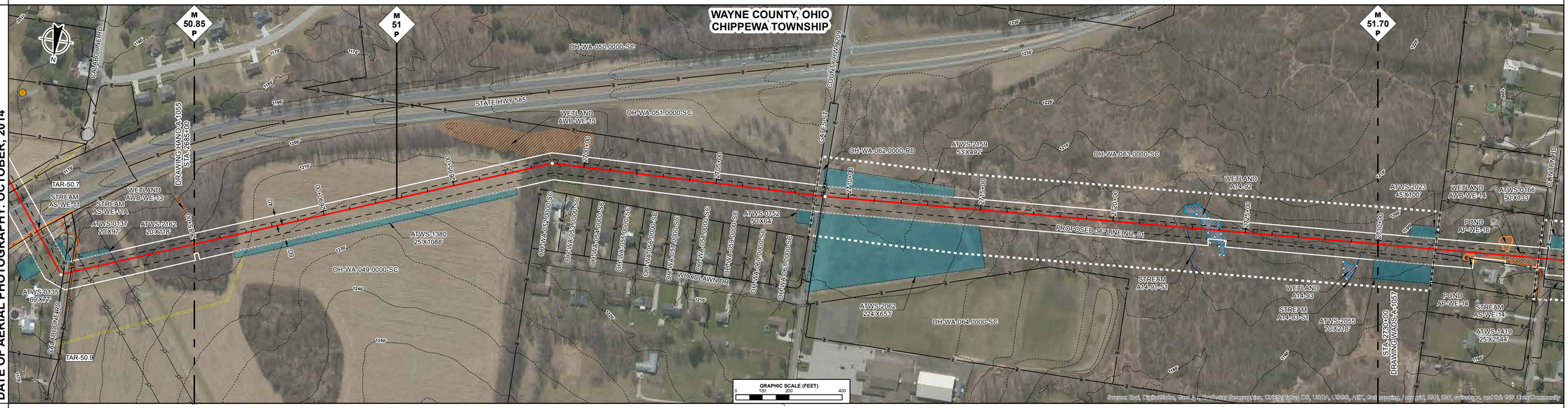
CLASS LOCATION

PIPE MATERIAL

ALIGNMENT LEGEND

- MAINLINE VALVE (MLV)
- PIPELINE MILEPOST (M 0.0 P)
- PIPELINE
- INTERCONNECTING PIPELINE
- CONSTRUCTION LIMIT
- STUDY CORRIDOR
- STAGING AREA
- PERMANENT ROW
- ADDITIONAL TEMPORARY WORKSPACE
- METERING & REGULATION STATION (M&R)
- COMPRESSOR SITE STATION
- FACILITIES TEMPORARY WORKSPACE
- FACILITIES PERMANENT WORKSPACE
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- DELINEATED WATERBODY BANK
- DELINEATED WATERBODY CENTERLINE
- APPROXIMATE WETLAND BOUNDARY
- APPROXIMATE WATERBODY BANK
- APPROXIMATE WATERBODY CENTERLINE
- PERMANENT ACCESS ROAD (PAR-0.0)
- TEMPORARY ACCESS ROAD (TAR-0.0)
- PARCEL TRACT NO (OH-CO-011.0000-SC)
- PROPERTY LINE
- CONTOUR (120')
- MUNICIPALITY LINE
- FENCE
- FOREIGN PIPELINE
- POWERLINE
- WATER PIPELINE
- RAILROAD TRACK
- TELEPHONE
- UTILITY LINES
- HORIZONTAL DIRECTIONAL DRILLING
- TOWER
- LIGHT POLE
- FIRE HYDRANT
- WELL: GAS, WATER, OIL, OTHER

DATE OF AERIAL PHOTOGRAPHY: OCTOBER, 2014



ENVIRONMENTAL DATA

STA. 2685+21 WETLAND AWB-WE-13 EXIT

STA. 2697+98 WETLAND AWB-WE-15 ENTER
STA. 2698+81 WETLAND AWB-WE-15 EXIT

STA. 2722+80 CENTERLINE OF STREAM A14-91-S1 TRIB TO MILL CREEK
STA. 2723+21 WETLAND A14-92 ENTER
STA. 2724+23 WETLAND A14-92 EXIT

SITE SPECIFIC E & S

PROFILE

THE LOCATION OF TRENCH PLUGS AND SLOPE BREAKERS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

- FLUME PIPE AS REQUIRED
- SLOPE BREAKERS
- TRENCH PLUG ▲

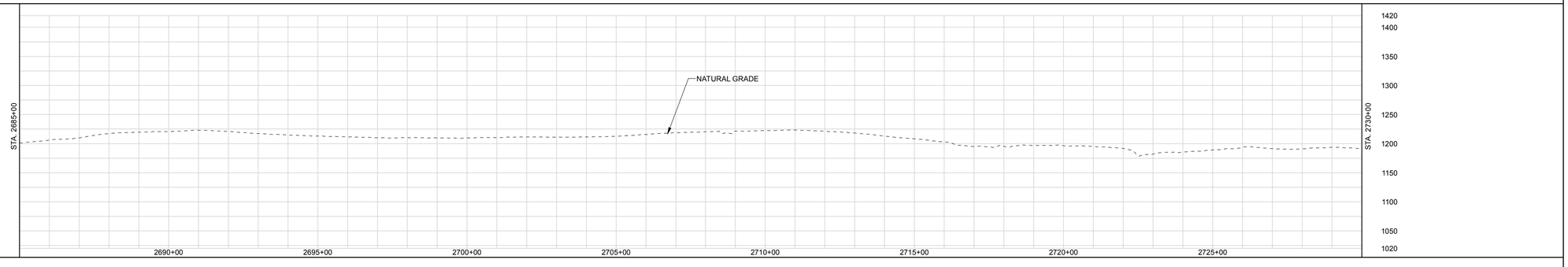
PERMANENT SLOPE BREAKER & TRENCH PLUG SPACING

%SLOPE	SLOPE BREAKER SPACING (FT)	%SLOPE	TRENCH PLUG SPACING (FT)
< 5%	250 FT	< 5%	1000FT
5-15%	150 FT	5-15%	500 FT
15-30%	100 FT	15-25%	300 FT
>30%	50 FT	25-35%	200 FT
		35-100%	100 FT
		>100%	50 FT

TRENCH PLUGS ARE REQUIRED AT ALL WATERBODY AND WETLAND CROSSINGS REGARDLESS OF SLOPE.

SEE FIGURES 12 AND 16 FOR SPECIFICATIONS.

IN AG FIELDS AND RESIDENTIAL AREAS WHERE SLOPE BREAKERS ARE NOT TYPICALLY REQUIRED, INSTALL PERMANENT TRENCH PLUGS AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED. (FERC PLAN)



LAND USE CLASSIFICATION

AG	AGRICULTURAL	OP	OPEN	I/C	INDUSTRIAL/COMMERCIAL
F/W	FOREST/WOODLAND	R	RESIDENTIAL	W/R	WETLAND/WATERBODY

SOILS
LAND USE
% SLOPE

GENERAL NOTES:

1.) ALL STATIONING IS IN U.S. FEET.

2.) CONTOUR LINES AND ELEVATIONS ARE IN U.S. FEET.

ENGINEERING APPROVALS

DRAWN BY:	BID		CONSTRUCTION	
TITLE	SIGNATURE	DATE	SIGNATURE	DATE

NEXUS PROPOSED MAINLINE PIPELINE
M.P. 50.85 to M.P. 51.70
STA. 2685+00 to STA. 2730+00
ALIGNMENT SHEET

LOC. WAYNE COUNTY, OHIO

NEXUS GAS TRANSMISSION

21-Apr-2015 | W.B.S. | Scale 1" = 200' | WADS-A-1056 | REV. A

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
REFERENCE DRAWINGS		REVISIONS				MATERIALS		
		A			ISSUED FOR FERC			

I.G.#

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