

CIVIL CONSTRUCTION DRAWINGS

HAN 75-14.39 I-75 8-INCH PIPELINE RELOCATION

CITY OF FINDLAY, HANCOCK COUNTY, OHIO

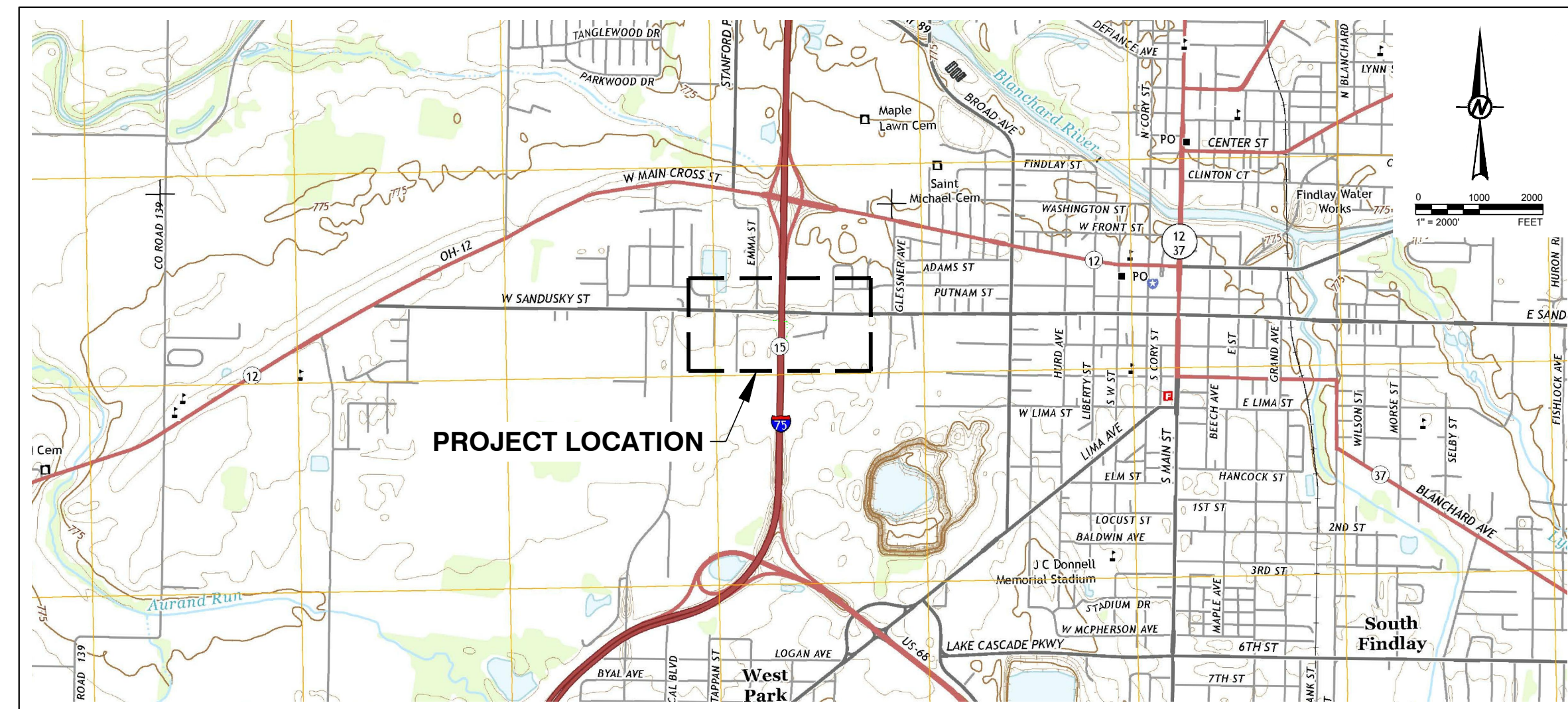
R0471

CIVIL PROJECT DRAWINGS

DRAWING NUMBER	REV. NO.	PAGE NO.	DESCRIPTION
BPL-FN405FJ-C00001	A	1	CIVIL - COVER PAGE
BPL-FN405FJ-CA0001	A	2	CIVIL - RIGHT OF WAY & WORK SPACE PLAN
BPL-FN405FJ-CA0002	A	3	CIVIL - OVERALL PLAN - EXISTING CONDITIONS
BPL-FN405FJ-CA0003	A	4	CIVIL - OVERALL PLAN - PROPOSED CONDITIONS
BPL-FN405FJ-CA0004	A	5	CIVIL - PLAN & PROFILE (STA. 0+00 TO 3+24.4)
BPL-FN405FJ-CA0005	A	6	CIVIL - PLAN & PROFILE (STA. 3+24.4 TO 5+72.7)
BPL-FN405FJ-CA0006	A	7	CIVIL - GENERAL NOTES & DETAILS
BPL-FN405FJ-CA0007	A	8	CIVIL - PIPELINE REMOVAL & ABANDONMENT PLAN

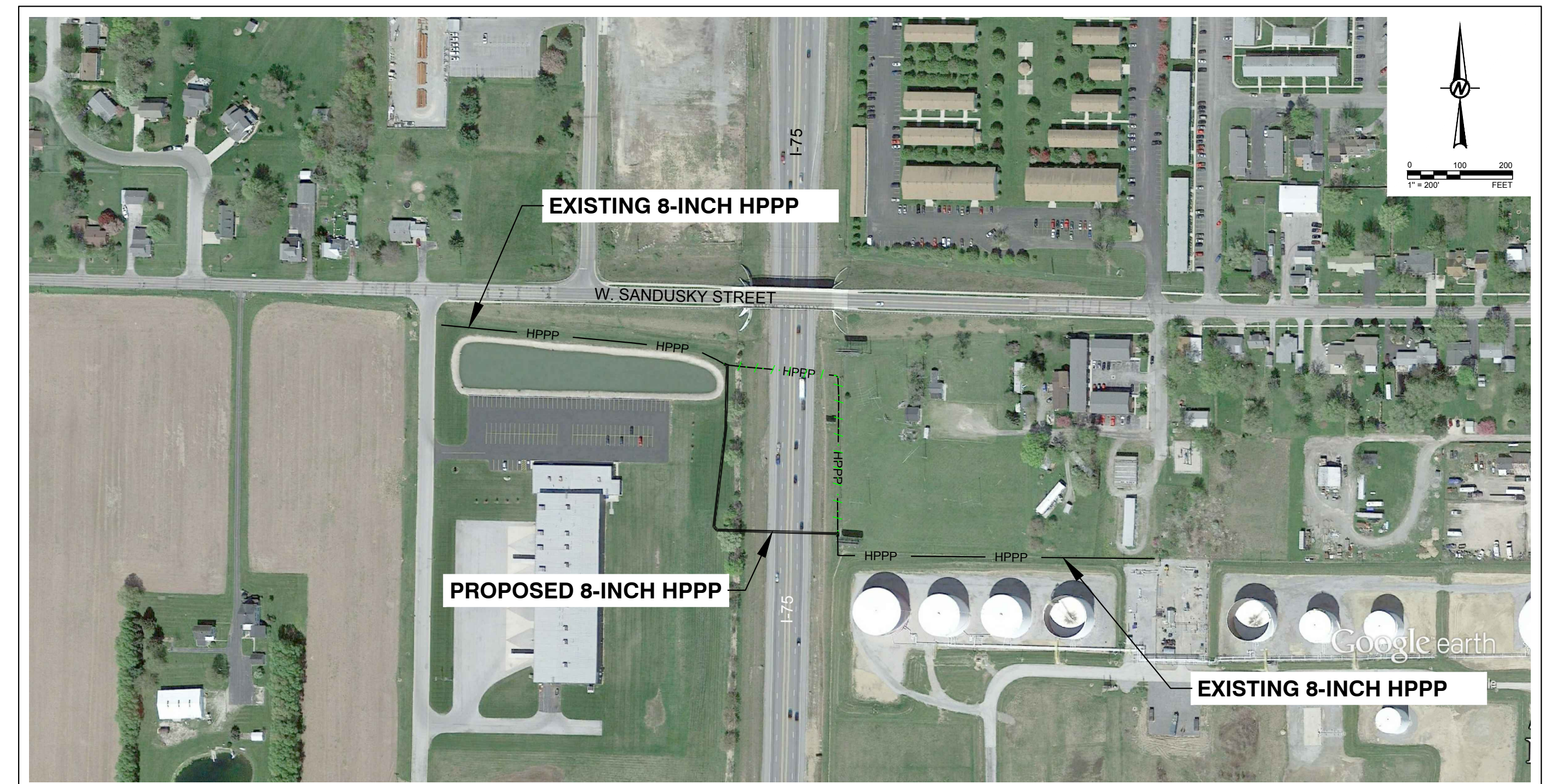
REFERENCE DRAWING

DRAWING NUMBER	REV. NO.	PAGE NO.	DESCRIPTION
-	6	2	BUCKEYE PIPE LINE CO. PIPE LINE ATLAS - 8" FINDLAY JUNCTION TO FINDLAY STATION HANCOCK CO. OHIO, T1N R10E



REFERENCE: TOPOGRAPHIC MAP FROM 7.5 MINUTE U.S.G.S. QUADRANGLE OF FINDLAY, OHIO (2013).

VICINITY MAP



REFERENCE: AERIAL MAP FROM GOOGLE EARTH PRO, PHOTO DATE 04/06/2012.

PROJECT LOCATION MAP

**FOR BID PURPOSES ONLY
NOT FOR CONSTRUCTION**

GAI PROJECT NO. 1412294



**Know what's below.
Call before you dig.**

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						07/09/15	07/09/15
						BY DATE	APPR DATE

BID APPROVAL:

CONSTRUCTION APPROVAL:

PERMITTING APPROVAL:

	NAME:	TITLE:	DATE:
PHA REVIEWED:	_____	_____	_____
FIELD:	_____	_____	_____
DESIGN ENGINEER:	_____	_____	_____
PROJECT MGR:	_____	_____	_____
TECH SERV. SME:	_____	_____	_____
TECH SERV. VP:	_____	_____	_____

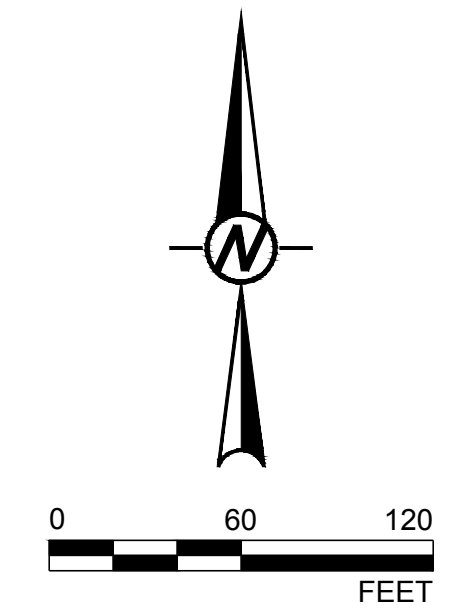
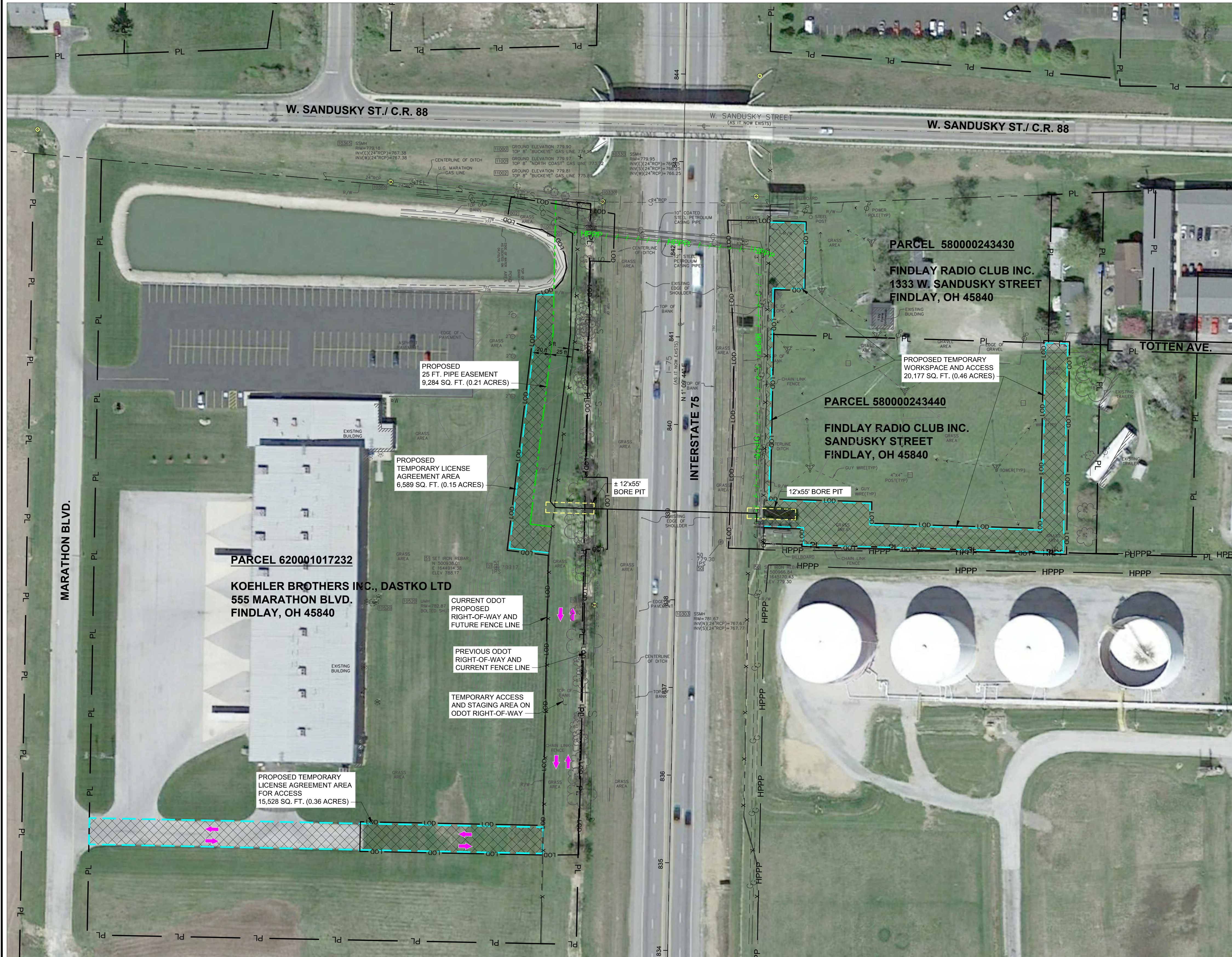
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TECH SERV. VP:	_____	_____	_____

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PROJECT MGR:	_____	_____	_____
TECH SERV. SME:	_____	_____	_____
TECH SERV. VP:	_____	_____	_____



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WORK ORDER NO. R0471		BUCKEYE PARTNERS, L.P. BUCKEYE PIPE LINE COMPANY, L.P.	
CIVIL COVER PAGE		HAN 75-14.39 I-75 8-INCH PIPELINE RELOCATION CITY OF FINDLAY, HANCOCK COUNTY, OHIO	
DRAWN:	SDA/BCL	AS SHOWN	DATE: 07/09/15
APPROVED:	MEF	MEF/RC	BPL-FN405FJ-C00001
	CHECKED:	DRAWING NUMBER	REV A



LEGEND

- PL ——— PL ——— EXISTING PROPERTY LINE (APPROXIMATE LOCATION)
- HPPP ——— HPPP ——— EXISTING HIGH PRESSURE PETROLEUM PIPELINE
- X ——— X ——— FENCE LINE
- ——— ODOT PROPOSED RIGHT-OF-WAY
- ——— FN405FL JACK AND BORE RELOCATION PIPELINE
- ——— ABANDON HPPP PIPE TO BE REMOVED
- ——— PROPOSED PIPELINE EASEMENT LIMITS
- ——— PROPOSED CONSTRUCTION LICENSE AGREEMENT AREAS
- ——— SUBJECT PARCEL / PROPERTY
- ——— TEMPORARY ACCESS (INGRESS/EGRESS)
- ——— PROPOSED LIMITS OF DISTURBANCE (LOD)

REFERENCES

1. PROPOSED ODOT FENCE AND RIGHT-OF-WAY LINES SHOWN COLLECTED FROM ODOT I-75 IMPROVEMENT PROJECT HAN 75 - 14.39 (87005BC001.DWG).
2. AERIAL LICENSED FROM GOOGLE EARTH PRO (2015).
3. TOPOGRAPHIC SURVEY AND UTILITY INFORMATION SHOWN PROVIDED BY GARCIA SURVEYORS, INC., FIELD SURVEY DATE 4/15/2015. PORTIONS OF EXISTING GAS PIPELINE INFORMATION SHOWN DERIVED FROM DRAWING FILE "EQZE017_SUE_holes.dgn", PROVIDED BY ODOT (Eric J. Scheckelhoff, P.E.) ON 3/31/15. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING GAS PIPELINE INFORMATION PROVIDED BY SO-DEEP U.S., P.C. TEST HOLE CERTIFICATION FORMS, CONTROL #EQZE017, DATED JUNE THROUGH SEPTEMBER 2013.
4. HORIZONTAL DATUM TAKEN FROM GROUND COORDINATES TABLE "PRIMARY CONTROL POINTS SET ALONG PROPOSED I-75", AS SHOWN ON PROJECT HAN 75 - 14.39 (87005GM001.DGN)
5. PROPERTY ID NUMBER OBTAINED FROM HANCOCK COUNTY AUDITOR (HTTP://HANCOCK.IVIEAUDITOR.COM/MAP.ASPX).
6. EXISTING PIPELINE STATIONING OBTAINED FROM BUCKEYE PIPE LINE COMPANY, PIPE LINE ATLAS - 8" FINDLAY JUNCTION TO FINDLAY STATION PAGE 2 (INCLUDED AS PAGE 9 IN THIS SET)

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GAI PROJECT NO. 1412294

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BUCKEYE PARTNERS, L.P.
BUCKEYE PIPE LINE COMPANY, L.P.

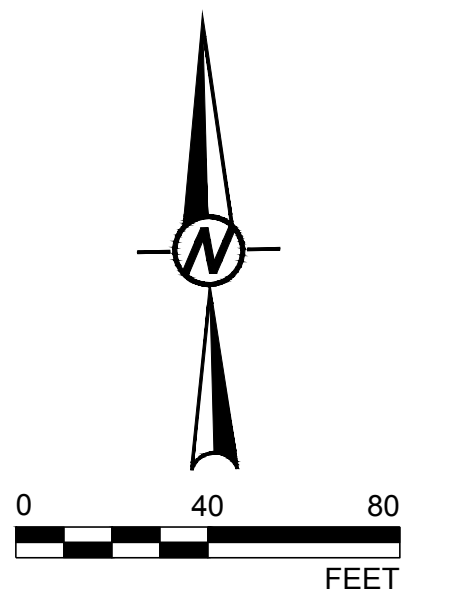
CIVIL
RIGHT OF WAY & WORK SPACE PLAN
HAN 75-14.39 I-75 8-INCH PIPELINE RELOCATION
CITY OF FINDLAY, HANCOCK COUNTY, OHIO

DATE: 07/09/15
DRAWN: SDA/BCL AS SHOWN SCALE: MEF/RC
APPROVED: MEF CHECKED: BPL-FN405FJ-CA0001
DRAWING NUMBER

PAGE 2
DO NOT SCALE DRAWING

Drawing File: BPL-FN405FJ-CA0001.dwg | Layout: ROW & Work Space Plan | Modified: 07/09/15 10:53am | Plotted: 07/09/15 10:53am | Plotted by: mason@...

W. SANDUSKY STREET
(AS IT NOW EXISTS)

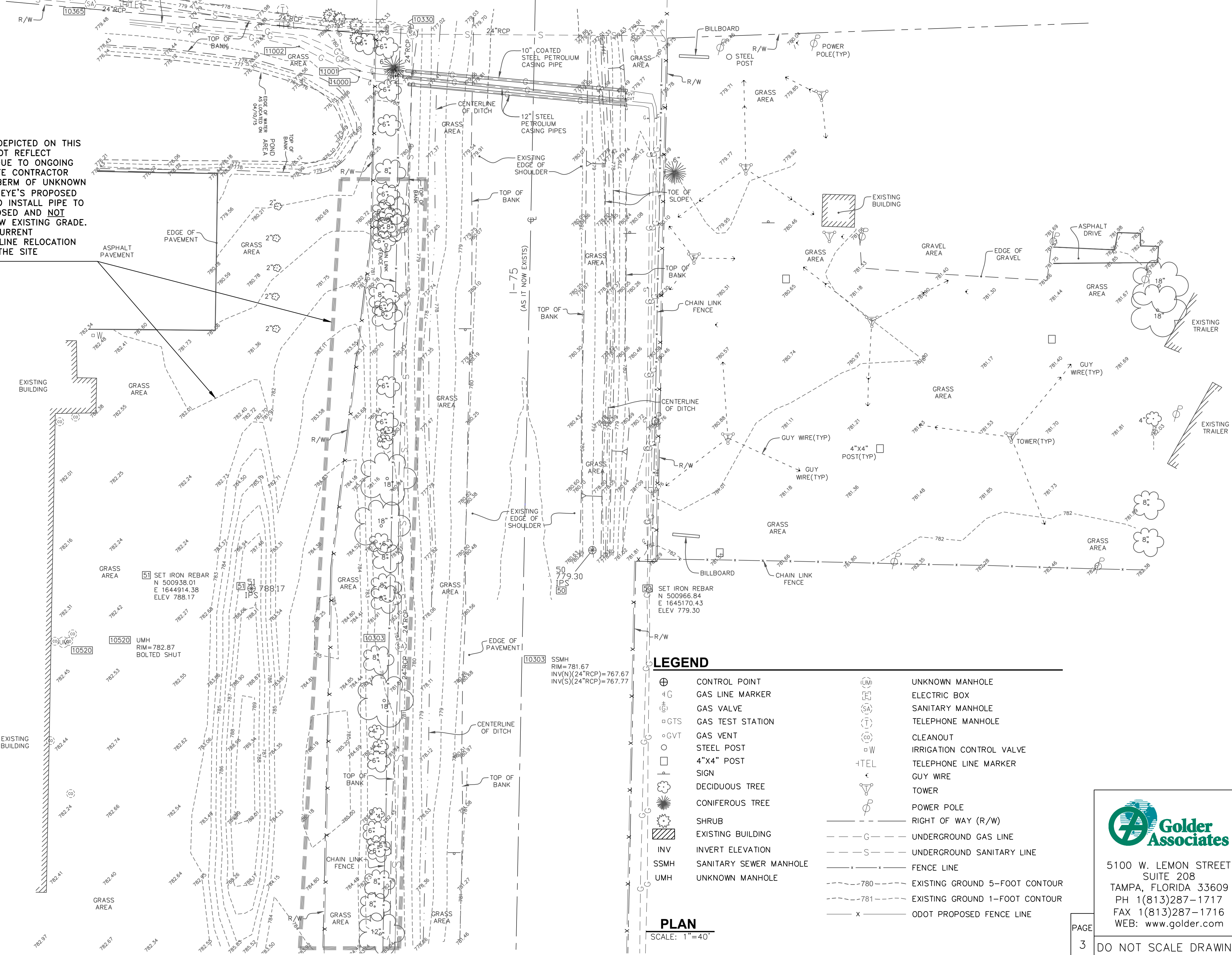


EXISTING GRADE CONTOURS AS DEPICTED ON THIS DRAWING & IN THIS SET MAY NOT REFLECT CURRENT CONDITIONS ON SITE DUE TO ONGOING SITE DEVELOPMENT PROJECT. SITE CONTRACTOR MAY HAVE CREATED AN EARTH BERM OF UNKNOWN HEIGHT AND WIDTH WITHIN BUCKEYE'S PROPOSED LOD. CONTRACTOR CAUTIONED TO INSTALL PIPE TO TOP OF PIPE ELEVATIONS PROPOSED AND NOT RELY ON MINIMUM DEPTHS BELOW EXISTING GRADE. CONTRACTOR TO FIELD VERIFY CURRENT CONDITIONS & COORDINATE PIPELINE RELOCATION WORK ON A DAILY BASIS WITH THE SITE DEVELOPMENT CONTRACTOR.

10365 SSMH
RIM=779.18
INV(E)(24"RCP)=767.38
INV(W)(24"RCP)=767.38

11000 GROUND ELEVATION 779.90
TOP 8" "BUCKEYE" GAS LINE 774.15
11001 GROUND ELEVATION 779.97
TOP 8" "NORTH COAST" GAS LINE 773.72
11002 GROUND ELEVATION 779.81
TOP 8" "BUCKEYE" GAS LINE 775.89

10330 SSMH
RIM=779.95
INV(E)(24"RCP)=766.15
INV(S)(24"RCP)=766.25
INV(W)(24"RCP)=766.25



LEGEND

- ⊕ CONTROL POINT
- ⊕G GAS LINE MARKER
- ⊕ GAS VALVE
- ⊕GTS GAS TEST STATION
- ⊕GVT GAS VENT
- ⊕ STEEL POST
- ⊕ 4"X4" POST
- ⊕ SIGN
- ⊕ DECIDUOUS TREE
- ⊕ CONIFEROUS TREE
- ⊕ SHRUB
- ▨ EXISTING BUILDING
- INV INVERT ELEVATION
- SSMH SANITARY SEWER MANHOLE
- UMH UNKNOWN MANHOLE
- ⊕ UNKNOWN MANHOLE
- ⊕ ELECTRIC BOX
- ⊕ SANITARY MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ CLEANOUT
- ⊕ IRRIGATION CONTROL VALVE
- ⊕ TELEPHONE LINE MARKER
- ⊕ GUY WIRE
- ⊕ TOWER
- ⊕ POWER POLE
- RIGHT OF WAY (R/W)
- UNDERGROUND GAS LINE
- UNDERGROUND SANITARY LINE
- FENCE LINE
- 780--- EXISTING GROUND 5-FOOT CONTOUR
- 781--- EXISTING GROUND 1-FOOT CONTOUR
- x--- ODOT PROPOSED FENCE LINE

PLAN
SCALE: 1"=40'

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GAI PROJECT NO. 1412294

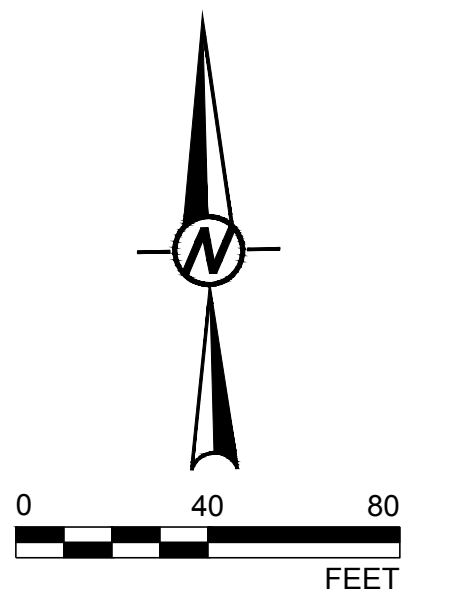
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		WORK ORDER NO. R0471			
BUCKEYE PARTNERS, L.P. BUCKEYE PIPE LINE COMPANY, L.P.					
CIVIL OVERALL PLAN - EXISTING CONDITIONS HAN 75-14.39 1-75 8-INCH PIPELINE RELOCATION CITY OF FINDLAY, HANCOCK COUNTY, OHIO					
DRAWN:	SDA/BCL	AS SHOWN	DATE:	07/09/15	
APPROVED:	MEF	MEF/RC	CHECKED:	BPL-FN405FJ-CA0002	REV A
			DRAWING NUMBER		

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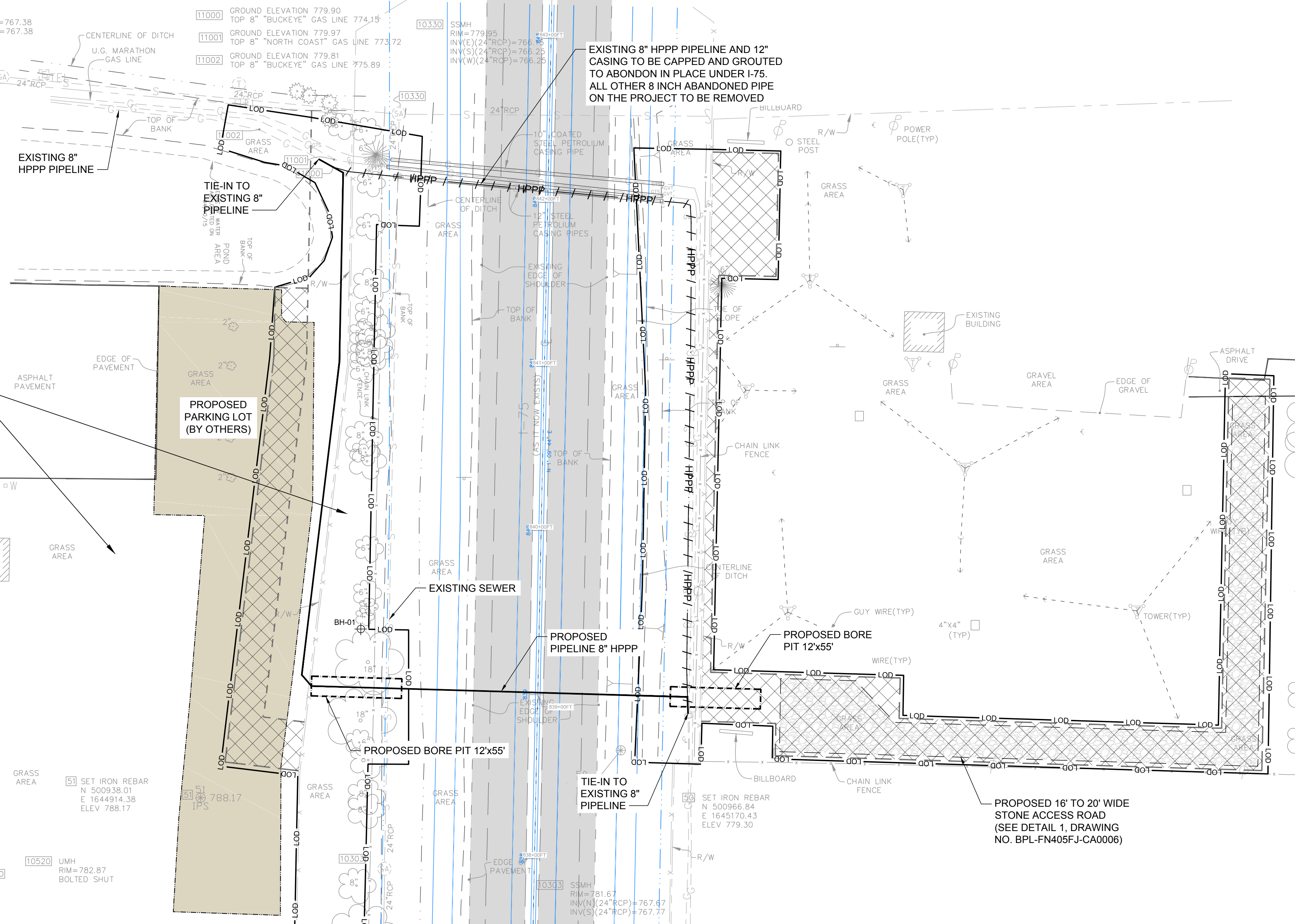
PAGE 3
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Drawing File: BPL-FN405FJ-CA0002.dwg | Layout: Existing Conditions | Modified: 07/09/15 10:54am | Plotted by: Administrator

W. SANDUSKY STREET
(AS IT NOW EXISTS)



EXISTING GRADE CONTOURS AS DEPICTED ON THIS DRAWING & IN THIS SET MAY NOT REFLECT CURRENT CONDITIONS ON SITE DUE TO ONGOING SITE DEVELOPMENT PROJECT. SITE CONTRACTOR MAY HAVE CREATED AN EARTH BERM OF UNKNOWN HEIGHT AND WIDTH WITHIN BUCKEYE'S PROPOSED LOD. CONTRACTOR CAUTIONED TO INSTALL PIPE TO TOP OF PIPE ELEVATIONS PROPOSED AND NOT RELY ON MINIMUM DEPTHS BELOW EXISTING GRADE. CONTRACTOR TO FIELD VERIFY CURRENT CONDITIONS & COORDINATE PIPELINE RELOCATION WORK ON A DAILY BASIS WITH THE SITE DEVELOPMENT CONTRACTOR.



SURVEY LEGEND (EXISTING)

⊕	CONTROL POINT	UM	UNKNOWN MANHOLE
⊕G	GAS LINE MARKER	EB	ELECTRIC BOX
⊕V	GAS VALVE	SM	SANITARY MANHOLE
⊕GTS	GAS TEST STATION	TM	TELEPHONE MANHOLE
⊕GVT	GAS VENT	CO	CLEANOUT
○	STEEL POST	ICV	IRRIGATION CONTROL VALVE
□	4"x4" POST	TEL	TELEPHONE LINE MARKER
+	SIGN	G	GUY WIRE
⊕	DECIDUOUS TREE	T	TOWER
⊕	CONIFEROUS TREE	PP	POWER POLE
⊕	SHRUB	— R/W	RIGHT OF WAY (R/W)
▨	EXISTING BUILDING	— G —	UNDERGROUND GAS LINE
INV	INVERT ELEVATION	— S —	UNDERGROUND SANITARY LINE
SSMH	SANITARY SEWER MANHOLE	— F —	FENCE LINE
UMH	UNKNOWN MANHOLE	(NOT SHOWN)	EXISTING GROUND 5-FOOT CONTOUR
		(NOT SHOWN)	EXISTING GROUND 1-FOOT CONTOUR
		— x —	ODOT PROPOSED FENCE LINE

LEGEND

— HPPP —	EXISTING BUCKEYE PIPELINE CENTERLINE
- - - HPPP / - - -	EXISTING BUCKEYE PIPELINE TO BE REMOVED
- - -	PROPOSED BUCKEYE PIPELINE 25 FT EASEMENT
— LOD —	PROPOSED PIPELINE 8-INCH HPPP
— X —	PROPOSED LIMIT OF DISTURBANCE (LOD)
—	FENCE LINE
▨	PROPOSED PARKING LOT EXPANSION (BY OTHERS)
BH-01 ⊕	SOIL SAMPLE BOREHOLE LOCATION AND ID
▨	PROPOSED CONSTRUCTION LICENSE AGREEMENT AREAS
- - -	EXISTING SWALE
—	FUTURE ODOT IMPROVEMENTS ON HAN 75-14.39

PLAN
SCALE: 1"=40'

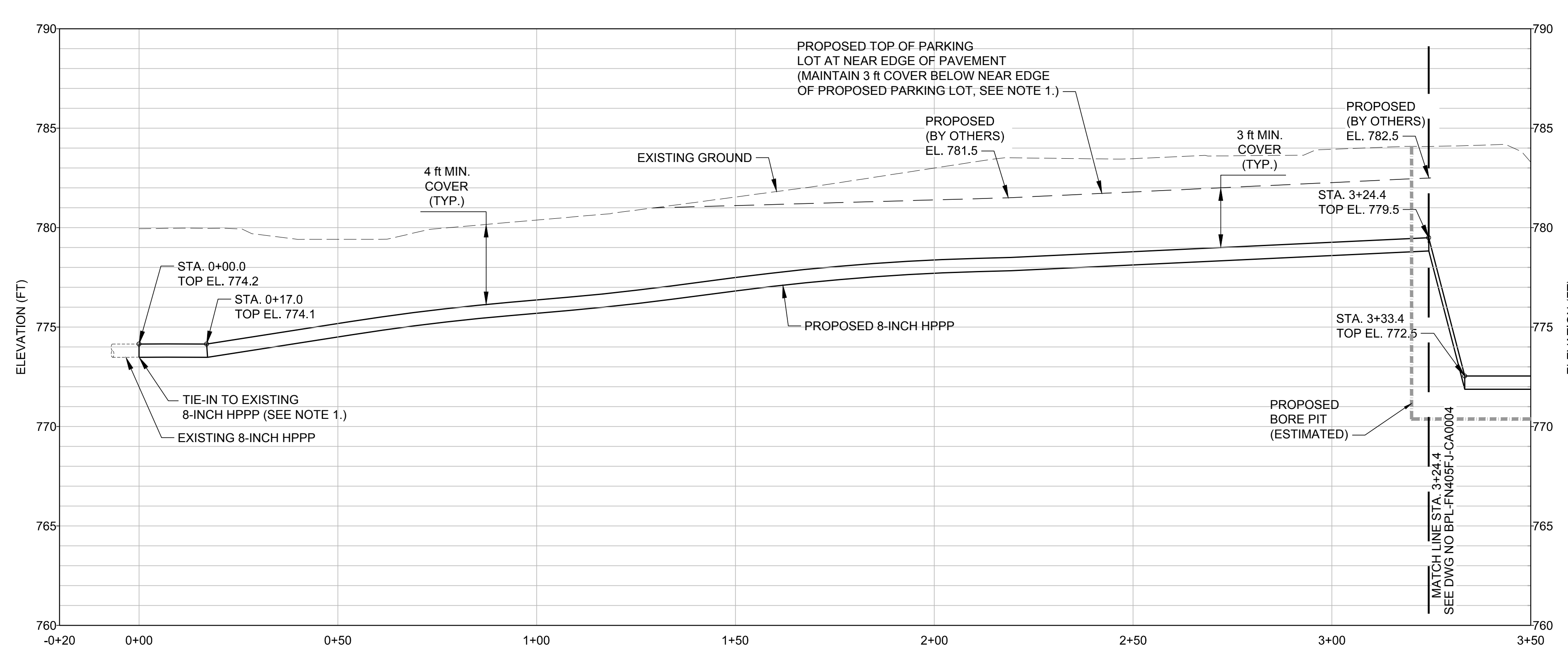
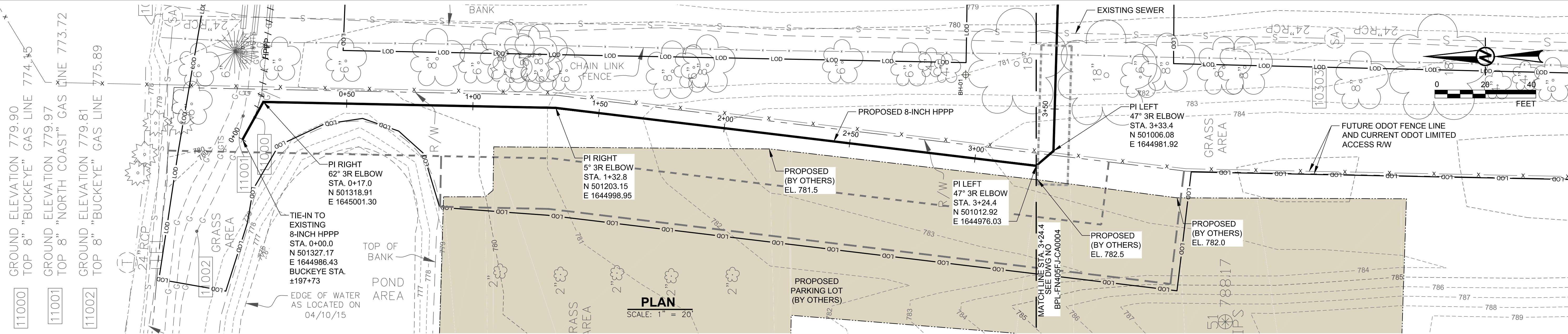
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NO LOC	DESCRIPTION OF REVISION	BY DATE	APPR DATE		
WORK ORDER NO. R0471					
BUCKEYE PARTNERS, L.P. BUCKEYE PIPE LINE COMPANY, L.P.					
CIVIL OVERALL PLAN - PROPOSED CONDITIONS HAN 75-14.39 I-75 8-INCH PIPELINE RELOCATION CITY OF FINDLAY, HANCOCK COUNTY, OHIO					
SDA/BCL	AS SHOWN	DATE:	07/09/15		
DRAWN:	SCALE:	BPL-FN405FJ-CA0003	REV	A	
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Drawing File: BPL-FN405FJ-CA0003.dwg | Layout: Proposed Conditions Modified: 07/09/15 8:44pm Plotted: 07/09/15 8:44pm Plotted by: manderon

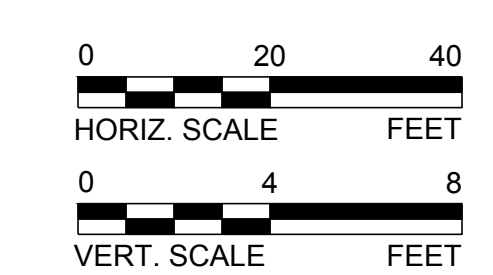
JURISDICTION	HANCOCK COUNTY, OHIO							
OWNER/ROW #	KOEHLER BROTHERS INC., DASTKO LTD / R/W 22							
TERRAIN SURFACE	GRASS							
STATIONING								
PIPE/COATING	①	②	③	④	⑤	⑥	⑦	⑧
MISC./CASING								
CATHODIC								



LEGEND

	HPPP	EXISTING BUCKEYE PIPELINE CENTERLINE
	HPPP	EXISTING BUCKEYE PIPELINE TO BE REMOVED
		PROPOSED BUCKEYE 25 FT PIPELINE EASEMENT AREA
		PROPOSED CONSTRUCTION LICENSE AGREEMENT AREA
		PROPOSED PIPELINE 8-INCH HPPP
	LOD	PROPOSED LIMIT OF DISTURBANCE (LOD)
	BH-01	SOIL SAMPLE BOREHOLE LOCATION AND ID
		EXISTING RIGHT OF WAY (R/W) /PROPERTY LINE (APPROXIMATE)
		EXISTING GROUND 5-FOOT CONTOUR
		EXISTING GROUND 1-FOOT CONTOUR
		PROPOSED PARKING LOT EXPANSION (BY OTHERS)

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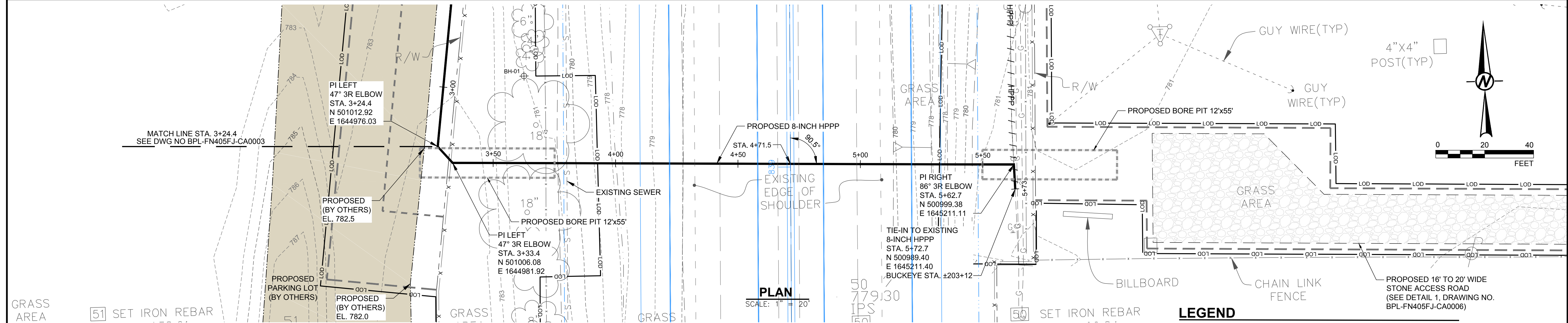
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		SCALE:	MEF/RC	BPL-FN405FJ-CA0004
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- NOTES:**
- PROPOSED EDGE OF PARKING LOT ELEVATIONS / GRADING OBTAINED FROM "FREUDENBERG NOK SITE GRADING AND UTILITY PLAN" DATED 5/17/15 AS PREPARED BY VAN HORN HOOVER AND ASSOCIATES, INC..
 - SEE DRAWING BPL-FN405FJ-CA0005 FOR BILL OF MATERIAL.

PROFILE
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

Drawing File: BPL-FN405FJ-CA0004.dwg | Layout: Plan & Profile | 11 Modified: 07/09/15 6:53pm | Printed: 07/09/15 6:53pm | Plotted by: stamondm

JURISDICTION	HANCOCK COUNTY, OHIO		
OWNER/ROW #	KOEHLER BROTHERS INC., DASTKO LTD / RW 22	ODOT I-75 ROW	
TERRAIN SURFACE	GRASS	ASPHALT	GRASS
STATIONING	MATCH LINE STA. 3+24.4 - SEE DWG NO BPL-FN405FJ-CA0003 STA. 3+24.4 BPL-FN405FJ-CA0003 STA. 3+33.4 PI LEFT 47° 3R ELBOW ROLLED	STA. 4+71.5 PI CENTERLINE I-75 ODOT BASELINE 4839+01.3	STA. 5+51.0 VPI SAC 45° STA. 5+62.7 STRAIGHT 86° 3R ELBOW ROLLED END PIPELINE RELOCATION CONSTRUCTION STA. 5+72.7 = EXIST. PIPELINE STA. 5+203+12
PIPE/COATING	(2) (4)	(3)	(6) (2) (4) (2)
MISC./CASING	(7) (6)		(7) (1)
MATERIAL			(8)



SOILS LEGEND

- ML TOPSOIL/SILT
- ML SILT
- SM SILTY SAND
- CL SANDY CLAY
- SP SAND
- CL CLAY
- ROCK ROCK

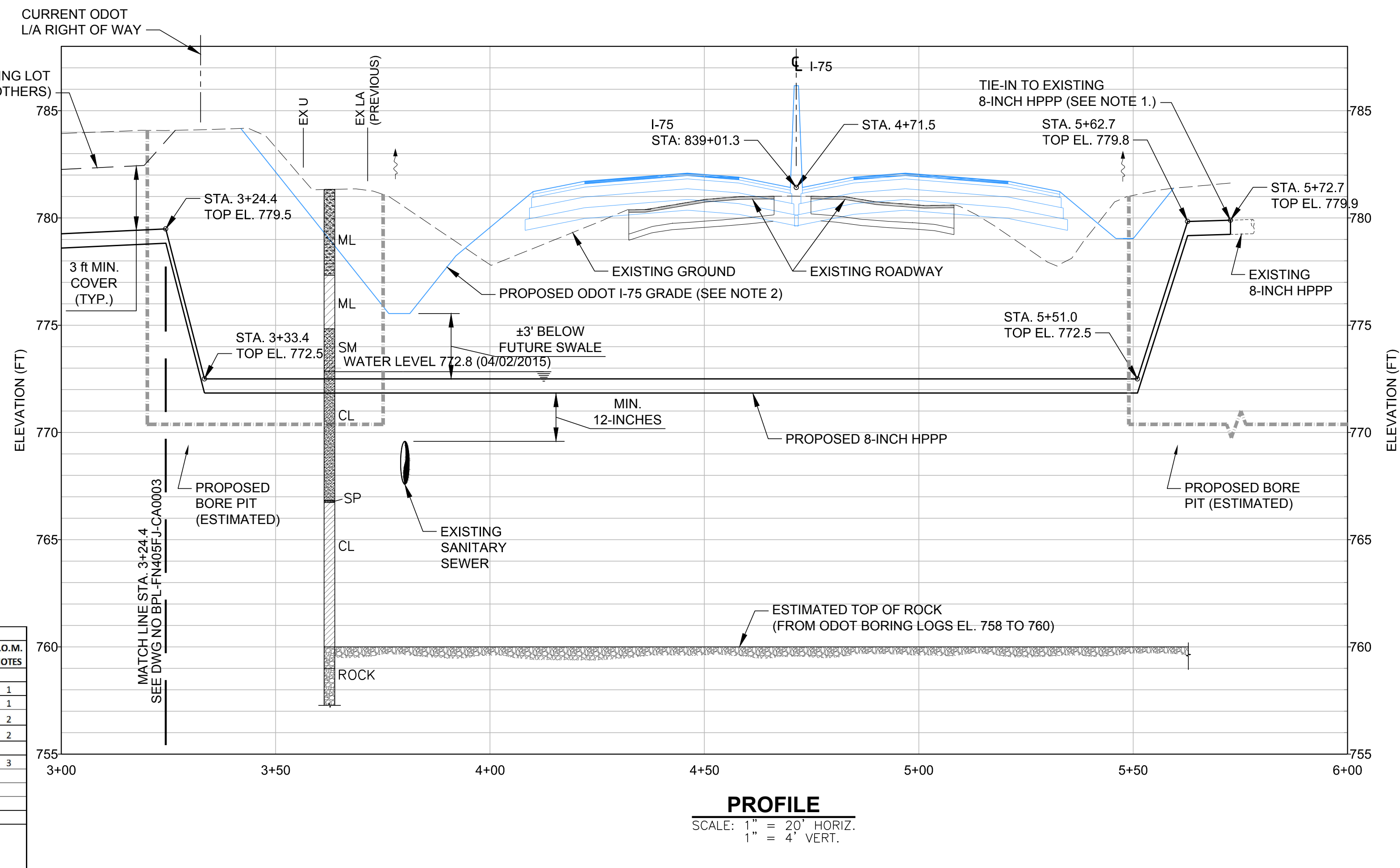
NOTES:

- EXACT TIE-IN POINT TO BE FIELD DETERMINED ONCE PIPE IS EXPOSED AND EXISTING DEPTH OF COVER VERIFIED. CONTRACTOR TO COORDINATE WITH BUCKEYE REPRESENTATIVE TO EXTEND TIE-IN POINT TO ACHIEVE DESIRED DEPTH OF COVER OR INSTALL CONCRETE PROTECTIVE SLAB OVER PIPELINE PER BUCKEYE STANDARDS.
- SITE CONTRACTOR MAY HAVE CREATED AN EARTH BERM OF UNKNOWN HEIGHT AND WIDTH WITHIN BUCKEYE'S PROPOSED LOD. CONTRACTOR CAUTIONED TO INSTALL PIPE TO TOP OF PIPE ELEVATIONS PROPOSED AND NOT RELY ON MINIMUM DEPTHS BELOW EXISTING GRADE.

BILL OF MATERIAL			
ITEM	MATERIAL DESCRIPTION	RECOMMENDED ORDER QUANTITY	B.O.M. NOTES
1	PIPE, 8.625" O.D. x unk. W.T., unk. grade, unk. Coating	EXIST.	
2	PIPE, 8.625" O.D. x 0.322" W.T., API 5L X-52, ERW, W/ FBE COATING (14-16 MILS DFT)	480	1
3	PIPE, 8.625" O.D. x 0.322" W.T., API 5L X-52, ERW, W/ 40 MILS ARO OVER FBE COATING (14-16 MILS DFT)	240	1
4	8" NPS, FITTING, ELL 90°, 3R, SEGMENTABLE, WPHY-52, ENDS TO MATCH 0.322"	6	2
5	8" NPS, FITTING, ELL 45°, 3R, SEGMENTABLE, WPHY-52, ENDS TO MATCH 0.322"	3	2
6	PIPELINE MARKER	2	4
7	PIPELINE WARNING MESH, 24-INCH WIDE, 250 FT. / ROLL	2	3
8	Test Station, Type I	2	
9	2-inches Concrete Coating Mill Applied		

NOTES:

- Recommend purchasing 2 to 4 extra double random joints for spare pipe
- Recommend purchasing 1 to 2 extra 45 & 90 degree ELL's for fabricating
- At tie-in points and all PIs



LEGEND

- HPPP — EXISTING BUCKEYE PIPELINE CENTERLINE
- - - HPPP - - - EXISTING BUCKEYE PIPELINE TO BE REMOVED
- - - PROPOSED BUCKEYE PIPELINE EASEMENT
- - - PROPOSED CONSTRUCTION LICENSE AGREEMENT AREA
- PROPOSED PIPELINE 8-INCH HPPP
- LOD — PROPOSED LIMIT OF DISTURBANCE (LOD)
- BH-01 — SOIL SAMPLE BOREHOLE LOCATION AND ID
- - - EXISTING RIGHT OF WAY (RW) / PROPERTY LINE (APPROXIMATE)
- - - 780 - - - EXISTING GROUND 5-FOOT CONTOUR
- - - 781 - - - EXISTING GROUND 1-FOOT CONTOUR
- - - PROPOSED PARKING LOT EXPANSION (BY OTHERS)
- - - FUTURE ODOT IMPROVEMENTS ON HAN 75-14.39

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A	ISSUED FOR BID REVIEW		RC	MEF	07/09/15 07/09/15
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WORK ORDER NO.		R0471			
		BUCKEYE PARTNERS, L.P. BUCKEYE PIPE LINE COMPANY, L.P.			
		CIVIL PLAN & PROFILE (STA. 3+24.4 TO STA. 5+72.7) HAN 75-14.39 I-75 8-INCH PIPELINE RELOCATION CITY OF FINDLAY, HANCOCK COUNTY, OHIO			
SDA/BCL	AS SHOWN	DATE:	07/09/15		
DRAWN:	SCALE:	BPL-FN405FJ-CA0005		REV	A
APPROVED:	MEF/RC CHECKED:	DRAWING NUMBER			

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PAGE 6
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Drawing File: BPL-FN405FJ-CA0005.dwg | Layout: Plan & Profile 2 | Modified: 07/09/15 6:53pm | Printed: 07/09/15 6:56pm | Plotted by: sbanderson

GENERAL NOTES

1. INFORMATION CONTAINED ON THESE DRAWINGS MUST BE CONSIDERED PROJECT SPECIFIC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF BUCKEYE PARTNERS, L.P..
2. INFORMATION PERTAINING TO PROPOSED OR FUTURE ROADWAYS, EXISTING UTILITY LINE LOCATIONS, RIGHT-OF-WAY BOUNDARIES, PROPERTY LINES AND ALL ELEVATION DATA, AS SHOWN ON THE PLANS, MUST BE CONSIDERED AS APPROXIMATE ONLY.
3. CONTRACTOR MUST FIELD-VERIFY ALL INFORMATION SHOWN PRIOR TO CONSTRUCTION.
4. COMPANY TO FURNISH SUBCONTRACTOR TO PERFORM NON-DESTRUCTIVE TESTING OF ALL WELDS, PER COMPANY STANDARDS.
5. COMPANY TO FURNISH SUBCONTRACTOR TO GPS SURVEY ALL NEW GIRTH WELDS AS REQUIRED PER COMPANY STANDARDS.
6. REFER TO SCOPE OF WORK FOR SITE ACCESS REQUIREMENTS AND EASEMENT RESTRICTIONS.
7. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND SECURITY OF THE JOB SITE, 24 HOURS A DAY, 7 DAYS A WEEK WHILE THE CONTRACTOR HAS CONTROL OF THE SITE. THIS INCLUDES THE SAFETY AND SECURITY OF ITS EMPLOYEES, MATERIALS AND EQUIPMENT, BUCKEYE'S EXISTING AND CONSTRUCTED INFRASTRUCTURE, THE GENERAL PUBLIC, THE LAND OWNERS, ODAND THE ENVIRONMENT.
8. RESULTS OF GEOTECHNICAL INVESTIGATION SHOWN ON DRAWINGS WERE GENERATED FROM A SOIL BORING COMPLETED BY GOLDER ASSOCIATES. THE BORE LOG AND SOIL TEST RESULTS ALONG WITH RECENT AND HISTORICAL ODOT GEOTECHNICAL INVESTIGATION RESULTS WILL BE PROVIDED SEPARATELY.
9. THE SURVEY CONTROL DATUM IS BASED ON DATUM TAKEN FROM GROUND COORDINATES TABLE "PRIMARY CONTROL POINTS SET ALONG PROPOSED I-75", AS SHOWN ON ODOT PROJECT HAN 75 - 14.39 PLANS (87005GM001.DGN).

UTILITY NOTES

1. THE LOCATIONS OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE COMPANY, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE.
2. CONTRACTOR TO EXERCISE EXTREME CAUTION TO PROTECT EXISTING UTILITIES WITHIN THE PROJECT LIMITS. ANY DAMAGE DONE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, INCLUDING BURIED COMMUNICATION CABLES AS WELL AS THE RADIO TOWER GUIDE WIRES/FOUNDATIONS AND BILLBOARD WITHIN OR NEAR THE LIMITS OF DISTURBANCE ON THE FINDLAY RADIO CLUB PROPERTY.
3. CONTRACTOR TO REVIEW AND COMPLY WITH BUCKEYE PARTNER'S RIGHT-OF-WAY USE RESTRICTIONS SPECIFICATIONS PROVIDED IN SPECIFICATIONS.
4. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, MARKING, AND PROTECTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR, BY LAW, MUST CONTACT THE OHIO UTILITIES PROTECTION SERVICE, 8-1-1 OR 1-800-362-2764, AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND LEGAL HOLIDAYS) BEFORE BEGINNING ANY EXCAVATION.

CONSTRUCTION NOTES

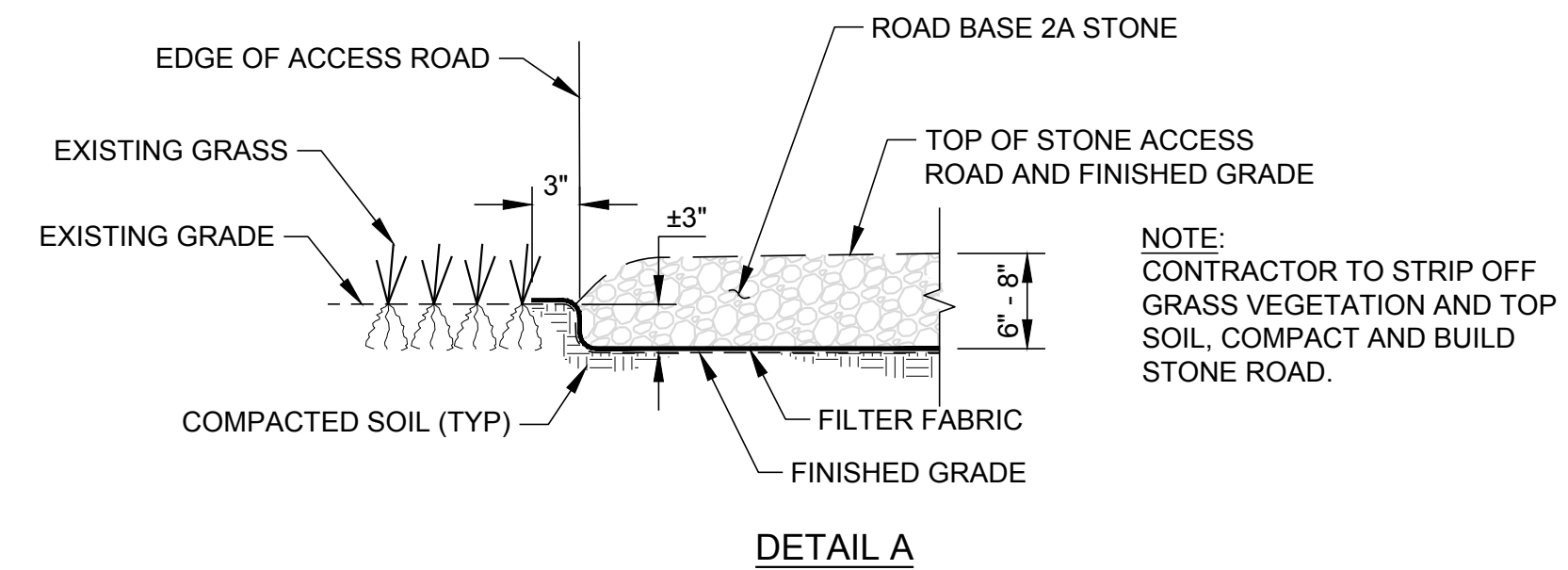
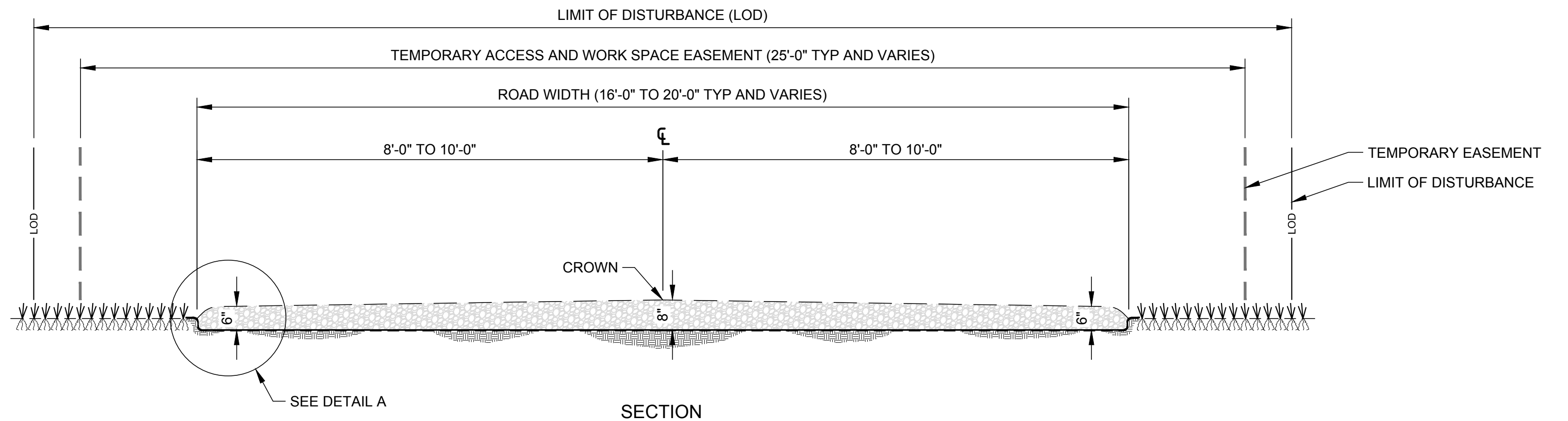
1. ALL WORK PERFORMED BY CONTRACTOR/SUBCONTRACTOR, INCLUDING TASKS THAT AFFECT THE OPERATIONS OR INTEGRITY OF THE PIPELINE (COVERED TASKS) PER THE DEFINITIONS SET FORTH IN DOT REGULATIONS 49 CFR PART 195 (OPERATOR QUALIFICATIONS REQUIREMENTS), MUST BE PERFORMED OR SUPERVISED BY QUALIFIED INDIVIDUALS AS DEFINED IN SUCH OQ REQUIREMENTS. CONTRACTOR AGREES TO FURNISH COMPANY REPRESENTATIVE WITH ALL OQ DOCUMENTATION PRIOR TO START OF WORK.
2. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL COMPANY STANDARDS AND SHALL CONFORM TO ANSI B31.4 LATEST EDITION, AS WELL AS ODOT REQUIREMENTS FOR WORKING WITHIN ODOT RIGHT OF WAY.
3. THE EXCAVATIONS FOR THIS PROJECT SHALL BE CARRIED OUT IN ACCORDANCE WITH O.S.H.A. REGULATIONS. PROVISIONS FOR WORKER PROTECTION WITHIN EXCAVATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR TO EXCAVATE AND RESTORE DISTURBED AREAS TO ORIGINAL CONDITIONS, INCLUDING TOPSOIL CONSERVATION, DOUBLE DITCHING PROVISIONS, ETC. SEE BID DOCUMENTS/SCOPE OF WORK FOR PROJECT-SPECIFIC REQUIREMENTS.
5. REMOVAL, RELOCATION, OR REPAIR OF FIELD TILE SHALL BE PERFORMED BY CONTRACTOR.
6. CONTRACTOR SHALL INSTALL CATHODIC PROTECTION TEST STATIONS AT LOCATIONS SHOWN OR AS DIRECTED BY COMPANY REPRESENTATIVE.
7. THE EXISTING PIPELINE WILL BE MARKED BY COMPANY. VEHICLE AND EQUIPMENT CROSSINGS OF THE PIPELINE SHALL BE KEPT TO A MINIMUM AND SHALL ONLY BE IN THE DESIGNATED AREA(S). DUE TO THE POTENTIAL SHALLOW DEPTH OF THE EXISTING PIPELINE IN SOME AREAS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL EARTH COVER OR SURFACE PROTECTION (MATS), AS NECESSARY, TO PROTECT BUCKEYE'S EXISTING PIPELINE DURING CONSTRUCTION.
8. PROPOSED MINIMUM DEPTH OF PIPE COVER IS 4 FEET, UNLESS OTHERWISE NOTED. CONTRACTOR AND COMPANY TO FIELD DETERMINE FINAL TIE-IN POINT ON EAST SIDE OF I-75 DUE TO REDUCED COVER OVER EXISTING PIPELINE IN THE AREA. BUCKEYE MAY DIRECT CONTRACTOR TO PROVIDE ADDITIONAL PIPELINE PROTECTIVE MEASURES (CONCRETE ENCASEMENT OR CONCRETE SLAB) IF ANY PIPE HAS LESS THAN 30-INCH OF COVER.
9. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTRACTOR TO EXPOSE EXISTING LINE(S) AS REQUIRED FOR TIE-IN OR FIELD BEND(S) FOR FINAL ALIGNMENT.
10. IF THE CONTRACTOR OPTS TO USE A BENDING MACHINE FOR ANY PIPE DEFLECTIONS THAT CAN NOT BE ACHIEVED WITH A 3R SEGMENTABLE ELBOW, THE CONTRACTOR TO MAKE 1" TO 1 1/2" FIELD BENDS WITH ONE PIPE DIAMETER MINIMUM SPACING BETWEEN BENDS AS REQUIRED FOR FINAL ALIGNMENT.
11. CONTRACTOR TO REMOVE AND ABANDON IN PLACE THE CARRIER AND CASING PIPE AS SPECIFIED ON DRAWING BPL-FN405FJ-CA0007.
12. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF THE CARRIER/CASING PIPE THAT IS RECLAIMED BY THIS PROJECT AS SPECIFIED.
13. CONTRACTOR TO TRANSPORT ALL EXCESS NEW PIPE (FULL JOINTS ONLY) TO THE SPECIFIED COMPANY FACILITY.
14. CONTRACTOR TO DISPOSE OF ALL NEW AND USED PIPE SCRAPS AT A NON-COMPANY FACILITY.
15. THE EXISTING PIPELINE COATING IS UNKNOWN, CONTRACTOR TO ASSUME AND HANDLE THE PIPE AND COATING AS IF IT IS COAL TAR CONTAINING ASBESTOS UNTIL DETERMINED OTHERWISE.
16. CONTRACTOR SHALL MAINTAIN, ON SITE, A SPILL CLEAN UP KIT IN THE EVENT OF A CONTAMINANT RELEASE FROM ANY VEHICLES OR EQUIPMENT.
17. CONTRACTOR SHALL RESTORE ALL REMOVED FENCING TO PRE-CONSTRUCTION OR CONDITION USING NEW POSTS, WIRE AND HARDWARE. TEMPORARY CYCLONE SECURITY FENCE PANELS SHALL BE PROVIDED ALONG THE LIMITS OF DISTURBANCE LINE IN AREAS THE EXITING ODOT L/A ACCESS RIGHT OF WAY FENCE NEEDS TO BE TEMPORARILY REMOVED DURING CONSTRUCTION.
18. CONTRACTOR SHALL COMPLY WITH ODOT'S TEMPORARY TRAFFIC CONTROL MANUAL FOR ALL WORK INSIDE ODOT'S LIMITED ACCESS RIGHT OF WAY FOR I-75. PER ODOT AS LONG AS THE PROJECT LOD REMAINS 30 FT BACK FROM THE EDGE OF ROAD ONLY SHOULDER WORK SIGNS WILL BE REQUIRED. BUCKEYE WILL OBTAIN AN ODOT 505 PERMIT PRIOR TO THE START OF CONSTRUCTION.

HYDROTEST NOTES

1. CONTRACTOR TO TEST ALL PIPE RECEIVED ON SITE PER HYDROTEST PLAN. EXTRA PIPE WILL BE RETAINED BY BUCKEYE AS PRETESTED EMERGENCY PIPE.
2. MINIMUM HYDROTEST: 8 HOURS @ 1,800 PSI MINIMUM.
3. CONTRACTOR SHALL CONTACT PROJECT ENGINEER FOR PRELIMINARY APPROVAL OF TEST DATA PRIOR TO DEPRESSURIZING THE TEST SECTION(S).

EROSION AND SEDIMENT CONTROL AND DEWATERING

1. APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES MUST BE USED, AND ALL DISTURBED SURFACES, SOIL STOCKPILES AND EXPOSED SOILS TEMPORARILY AND / OR PERMANENTLY STABILIZED IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANSPORTATION AND OHIO EPA REQUIREMENTS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH PERMITS OBTAINED BY BUCKEYE FOR ODOT PROJECT HAN 75-14.39.
2. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES, AS NECESSARY, IN ACCORDANCE WITH BUCKEYE SPECIFICATIONS AND ODOT / OHIO EPA REQUIREMENTS AND REGULATIONS TO PREVENT THE DISCHARGE OF RUNOFF OF SEDIMENT FROM THE JOBSITE. ANY ESC MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED.
3. DEWATERING OF ANY EXCAVATION BY PUMP OR WELL POINT SHALL BE FILTERED THROUGH A SEDIMENT DEVICE PRIOR TO DISCHARGE. DIRECT DISCHARGE TO A STORMWATER FACILITY WITHOUT PRIOR FILTERING IS NOT ALLOWED. ANY WITHDRAWALS THAT TRIGGER THE NEED FOR A WATER ALLOCATION PERMIT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN.



SCALE: 1" = 1'-0" **1** ACCESS ROAD DETAIL
CA0006

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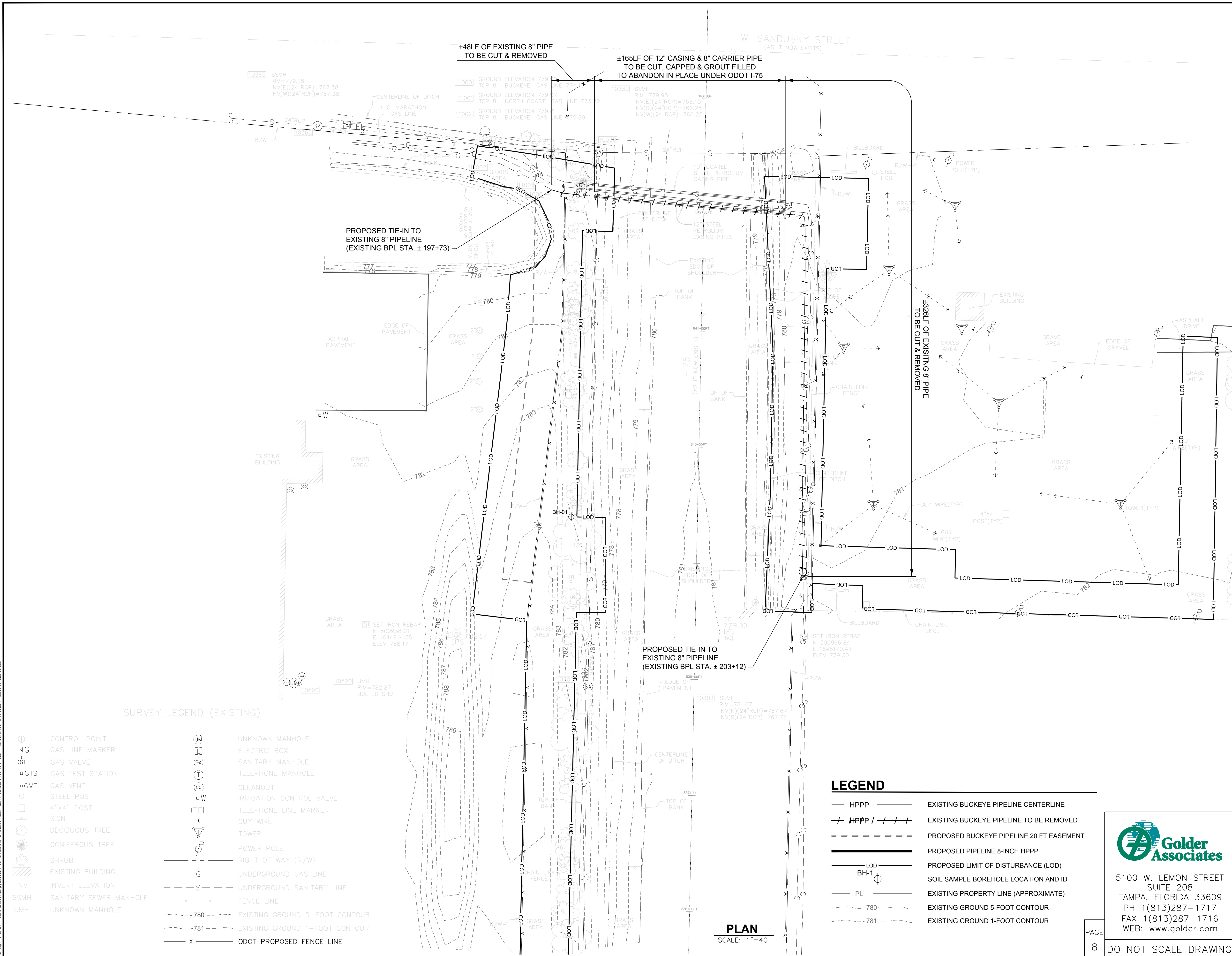
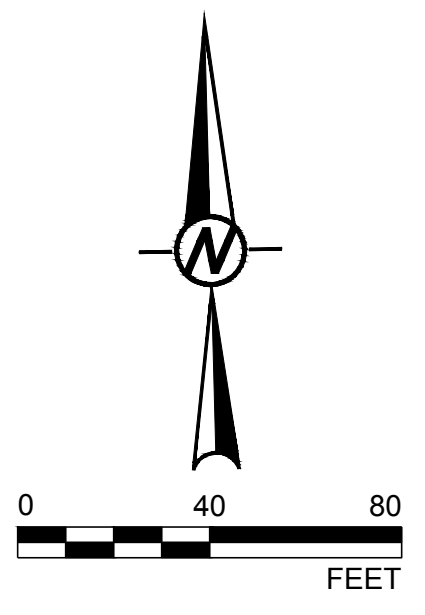
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			07/09/15	07/09/15
NO	LOC	DESCRIPTION OF REVISION	BY DATE	APPR DATE

Golder Associates
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WORK ORDER NO. R0471	
BUCKEYE PARTNERS, L.P. BUCKEYE PIPE LINE COMPANY, L.P.	
CIVIL GENERAL NOTES & DETAILS HAN 75-14.39 I-75 8-INCH PIPELINE RELOCATION CITY OF FINDLAY, HANCOCK COUNTY, OHIO	
DATE: 07/09/2015	
SDA/BCL	AS SHOWN
DRAWN:	SCALE:
MEF	MEF/RC
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SURVEY LEGEND (EXISTING)

- | | | | |
|------|------------------------|-------|--------------------------------|
| ⊕ | CONTROL POINT | ⊕ | UNKNOWN MANHOLE |
| 4G | GAS LINE MARKER | ⊕ | ELECTRIC BOX |
| ⊕ | GAS VALVE | ⊕ | SANITARY MANHOLE |
| ⊕ | GAS TEST STATION | ⊕ | TELEPHONE MANHOLE |
| ⊕ | GAS VENT | ⊕ | CLEANOUT |
| ⊕ | STEEL POST | ⊕ | IRRIGATION CONTROL VALVE |
| ⊕ | 4"x4" POST | ⊕ | TELEPHONE LINE MARKER |
| ⊕ | SIGN | ⊕ | GUY WIRE |
| ⊕ | DECIDUOUS TREE | ⊕ | TOWER |
| ⊕ | CONIFEROUS TREE | ⊕ | POWER POLE |
| ⊕ | SHRUB | ⊕ | RIGHT OF WAY (R/W) |
| ⊕ | EXISTING BUILDING | --- | UNDERGROUND GAS LINE |
| INV | INVERT ELEVATION | --- | UNDERGROUND SANITARY LINE |
| SSMH | SANITARY SEWER MANHOLE | --- | FENCE LINE |
| UMH | UNKNOWN MANHOLE | -780- | EXISTING GROUND 5-FOOT CONTOUR |
| | | -781- | EXISTING GROUND 1-FOOT CONTOUR |
| | | x | ODOT PROPOSED FENCE LINE |

LEGEND

- | | | |
|--------------------|------|--|
| --- | HPPP | EXISTING BUCKEYE PIPELINE CENTERLINE |
| -+ HPPP / -+ -+ -+ | | EXISTING BUCKEYE PIPELINE TO BE REMOVED |
| --- | | PROPOSED BUCKEYE PIPELINE 20 FT EASEMENT |
| --- | | PROPOSED PIPELINE 8-INCH HPPP |
| --- | LOD | PROPOSED LIMIT OF DISTURBANCE (LOD) |
| ⊕ | BH-1 | SOIL SAMPLE BOREHOLE LOCATION AND ID |
| --- | PL | EXISTING PROPERTY LINE (APPROXIMATE) |
| -780- | | EXISTING GROUND 5-FOOT CONTOUR |
| -781- | | EXISTING GROUND 1-FOOT CONTOUR |

PLAN
SCALE: 1"=40'

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A	ISSUED FOR BID REVIEW		RC	MEF	07/09/15 07/09/15
NO	LOC	DESCRIPTION OF REVISION	BY	DATE	APPR
		WORK ORDER NO. R0471			
BUCKEYE PARTNERS, L.P. BUCKEYE PIPE LINE COMPANY, L.P.					
CIVIL PIPELINE REMOVAL & ABANDONMENT PLAN HAN 75-14.39 1-75 8-INCH PIPELINE RELOCATION CITY OF FINDLAY, HANCOCK COUNTY, OHIO					
SDA/BCL	AS SHOWN	DATE:	07/09/15		
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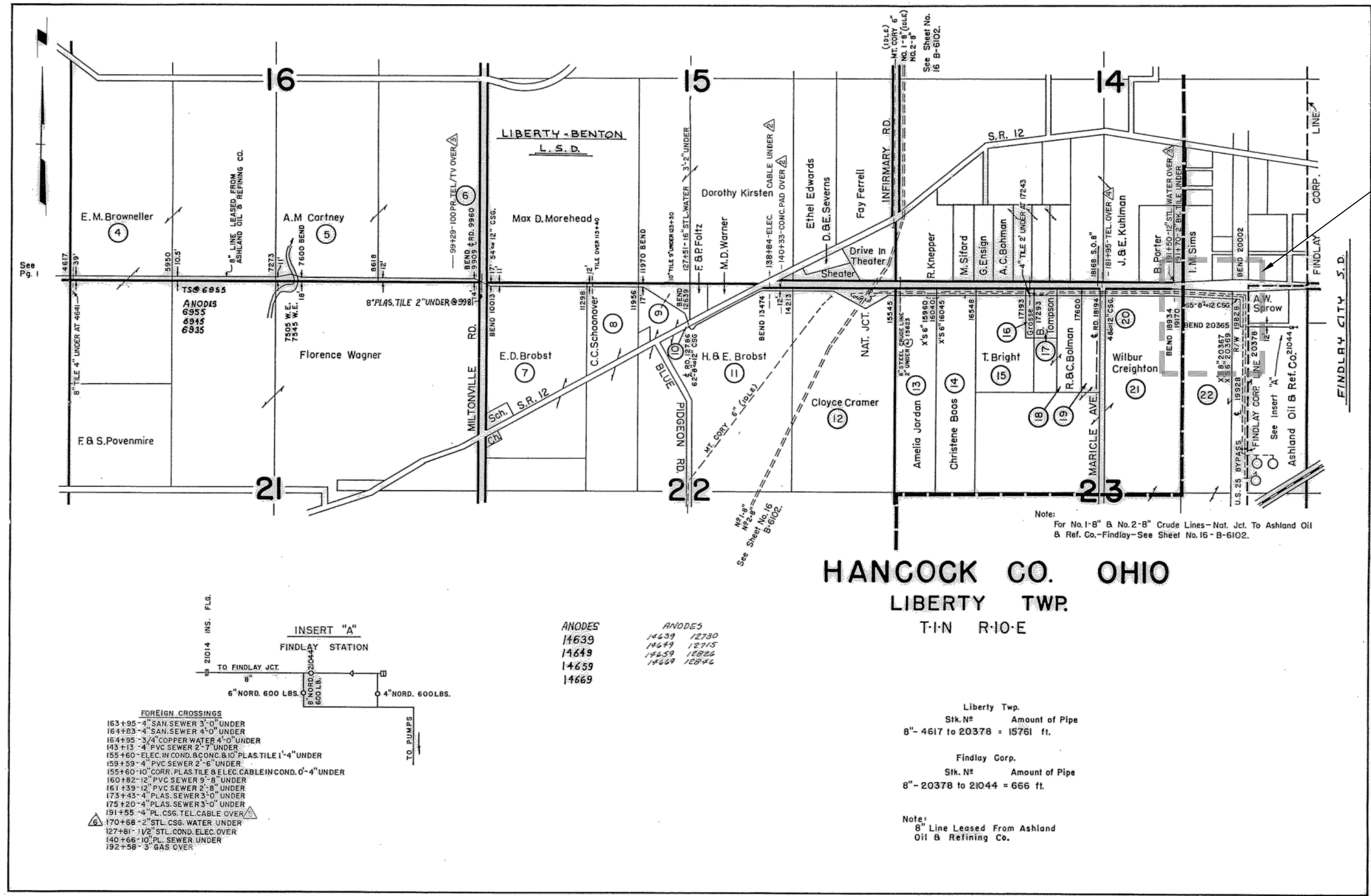
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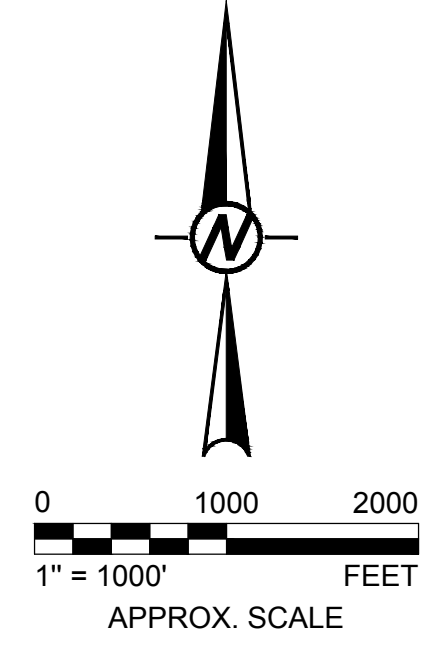
Drawing File: BPL-FN405FJ-CA0007.dwg | Layout: Pipeline Removal & Abandonment Plan | Modified: 07/09/15 8:43am | Plotted: 07/09/15 11:00am | Plotted by: automation

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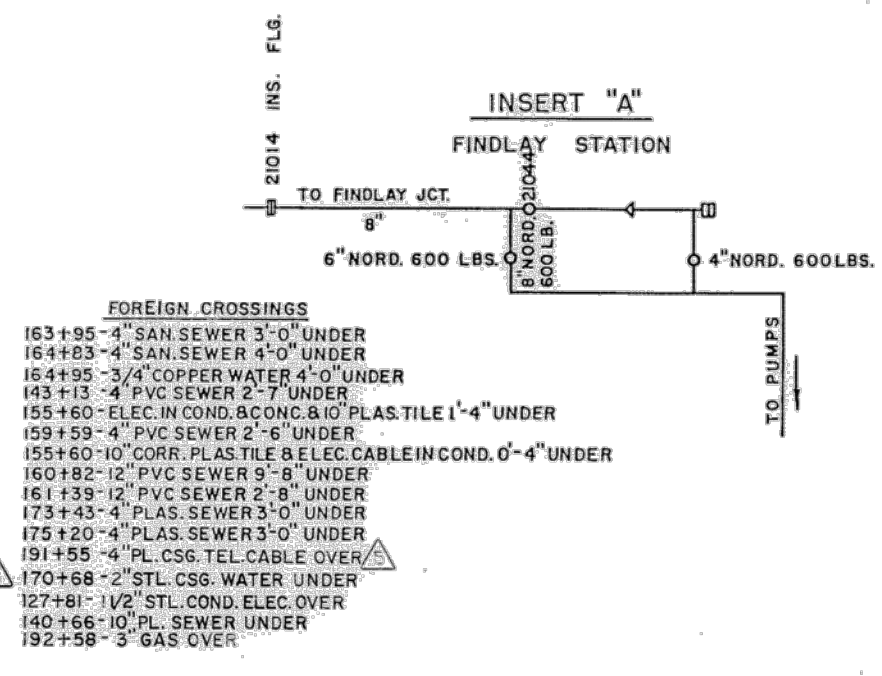
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- 6-26-98 DOD JSL
- 9-16-99 DOD JSL
- 7-20-00 DOD JSL
- 12-21-00 DOD JSL
- 5-26-02 DOD JSL



PROJECT LOCATION R0471



HANCOCK CO. OHIO
LIBERTY TWP.
T-1-N R-10-E



ANODES	ANODES
14639	12730
14649	12715
14659	12826
14669	12842

Liberty Twp.
Sik. No. Amount of Pipe
8" - 4617 to 20378 = 15761 ft.

Findlay Corp.
Sik. No. Amount of Pipe
8" - 20378 to 21044 = 666 ft.

Note:
8" Line Leased From Ashland Oil & Refining Co.

LEGEND

	COUNTY LINE
	TOWNSHIP LINE
	CORPORATION LINE
	PROPERTY LINE
	OTHER FACILITIES
	TEST LEADS
	INSULATING JOINT
	RIGHT OF WAY NO.
	MAIN LINE VALVE
	RESTRICTED R/W
	PROPERTY CORNER

BUCKEYE PIPE LINE CO.
PIPE LINE ATLAS
8" FINDLAY JUNCTION TO FINDLAY STATION

PAGE 2

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NO	LOC	DESCRIPTION OF REVISION	BY DATE	APPR DATE	
WORK ORDER NO.		R0471			



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BUCKEYE PARTNERS, L.P.
BUCKEYE PIPE LINE COMPANY, L.P.

CIVIL REFERENCE DRAWING
PIPE LINE ATLAS - 8" FINDLAY JUNCTION TO FINDLAY STATION
HAN 75-14.39 1-75 8-INCH PIPELINE RELOCATION
CITY OF FINDLAY, HANCOCK COUNTY, OHIO

PAGE	9	DO NOT SCALE DRAWING	DRAWN:	SCALE:	NTS	DATE:	07/09/2015	REV	A
APPROVED:			CHECKED:			DRAWING NUMBER			

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