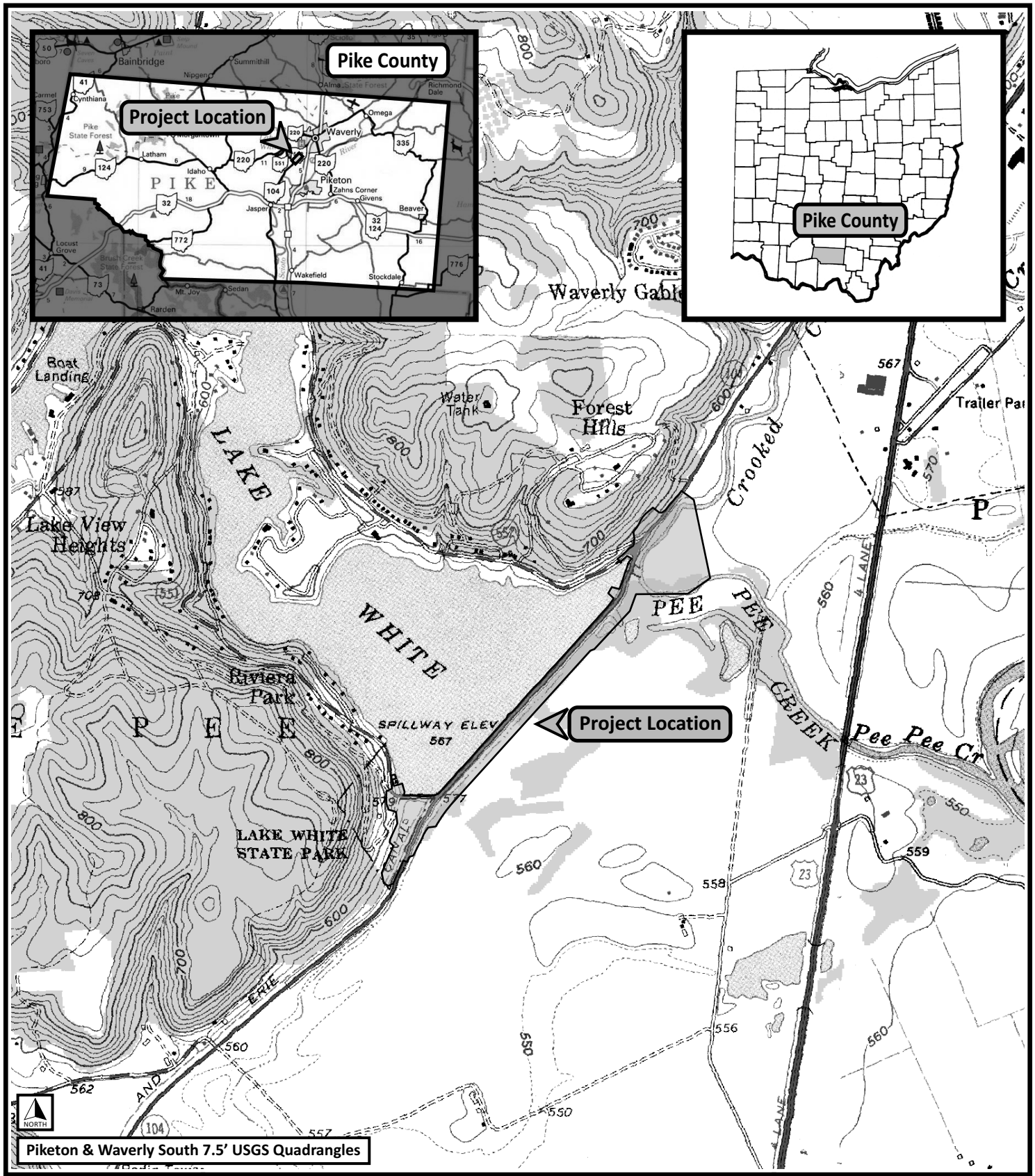
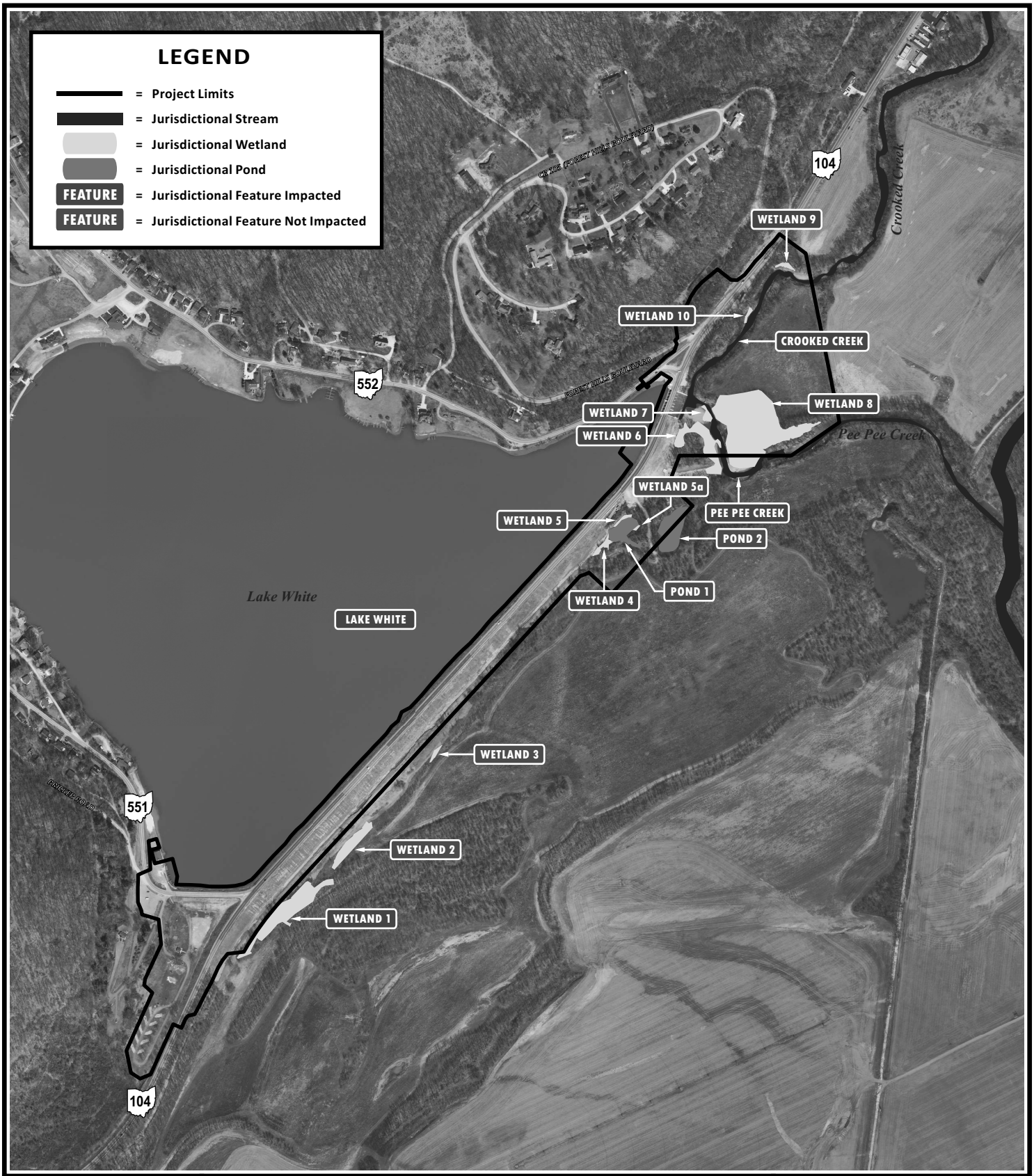


Project Location

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Location Map
Sheet 1 of 21

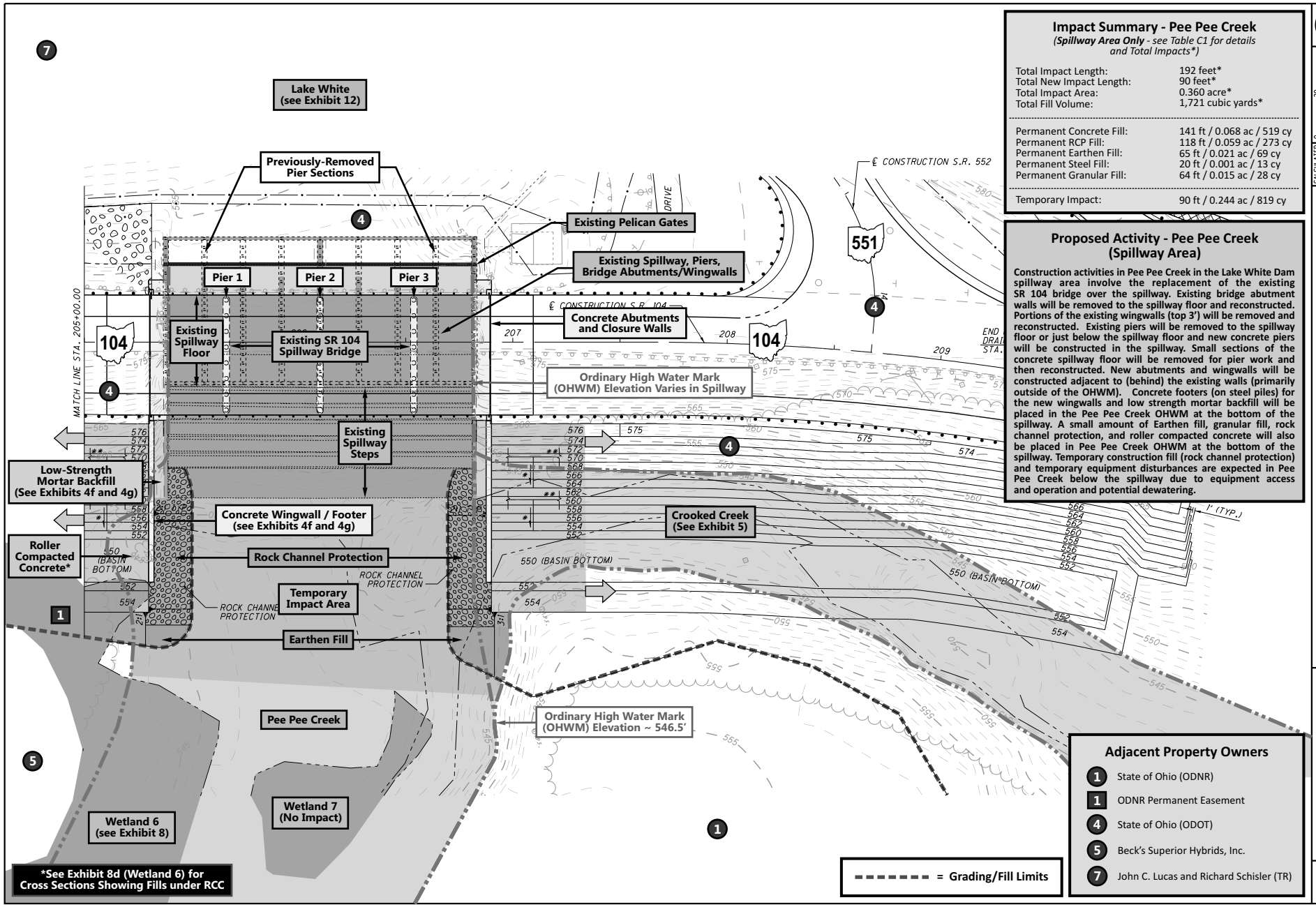


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Location of Jurisdictional Features

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Map of Jurisdictional Waters of the U.S.
Sheet 2 of 21



Impact Summary - Pee Pee Creek

*(**Spillway Area Only** - see Table C1 for details and Total Impacts*)*

Total Impact Length:	192 feet*
Total New Impact Length:	90 feet*
Total Impact Area:	0.360 acre*
Total Fill Volume:	1,721 cubic yards*
Permanent Concrete Fill:	141 ft / 0.068 ac / 519 cy
Permanent RCP Fill:	118 ft / 0.059 ac / 273 cy
Permanent Earthen Fill:	65 ft / 0.021 ac / 69 cy
Permanent Steel Fill:	20 ft / 0.001 ac / 13 cy
Permanent Granular Fill:	64 ft / 0.015 ac / 28 cy
Temporary Impact:	90 ft / 0.244 ac / 819 cy

Proposed Activity - Pee Pee Creek (Spillway Area)

Construction activities in Pee Pee Creek in the Lake White Dam spillway area involve the replacement of the existing SR 104 bridge over the spillway. Existing bridge abutment walls will be removed to the spillway floor and reconstructed. Portions of the existing wingwalls (top 3') will be removed and reconstructed. Existing piers will be removed to the spillway floor or just below the spillway floor and new concrete piers will be constructed in the spillway. Small sections of the concrete spillway floor will be removed for pier work and then reconstructed. New abutments and wingwalls will be constructed adjacent to (behind) the existing walls (primarily outside of the OHWM). Concrete footers (on steel piles) for the new wingwalls and low strength mortar backfill will be placed in the Pee Pee Creek OHWM at the bottom of the spillway. A small amount of Earthen fill, granular fill, rock channel protection, and roller compacted concrete will also be placed in Pee Pee Creek OHWM at the bottom of the spillway. Temporary construction fill (rock channel protection) and temporary equipment disturbances are expected in Pee Pee Creek below the spillway due to equipment access and operation and potential dewatering.

Adjacent Property Owners

- (1) State of Ohio (ODNR)
- (1) ODNR Permanent Easement
- (4) State of Ohio (ODOT)
- (5) Beck's Superior Hybrids, Inc.
- (7) John C. Lucas and Richard Schisler (TR)

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ALB CHECKED TCM

ROLLER COMPACTED CONCRETE LAYOUT
STA. 205+00.00 TO STA. 210+00.00

PIK-104-10.64

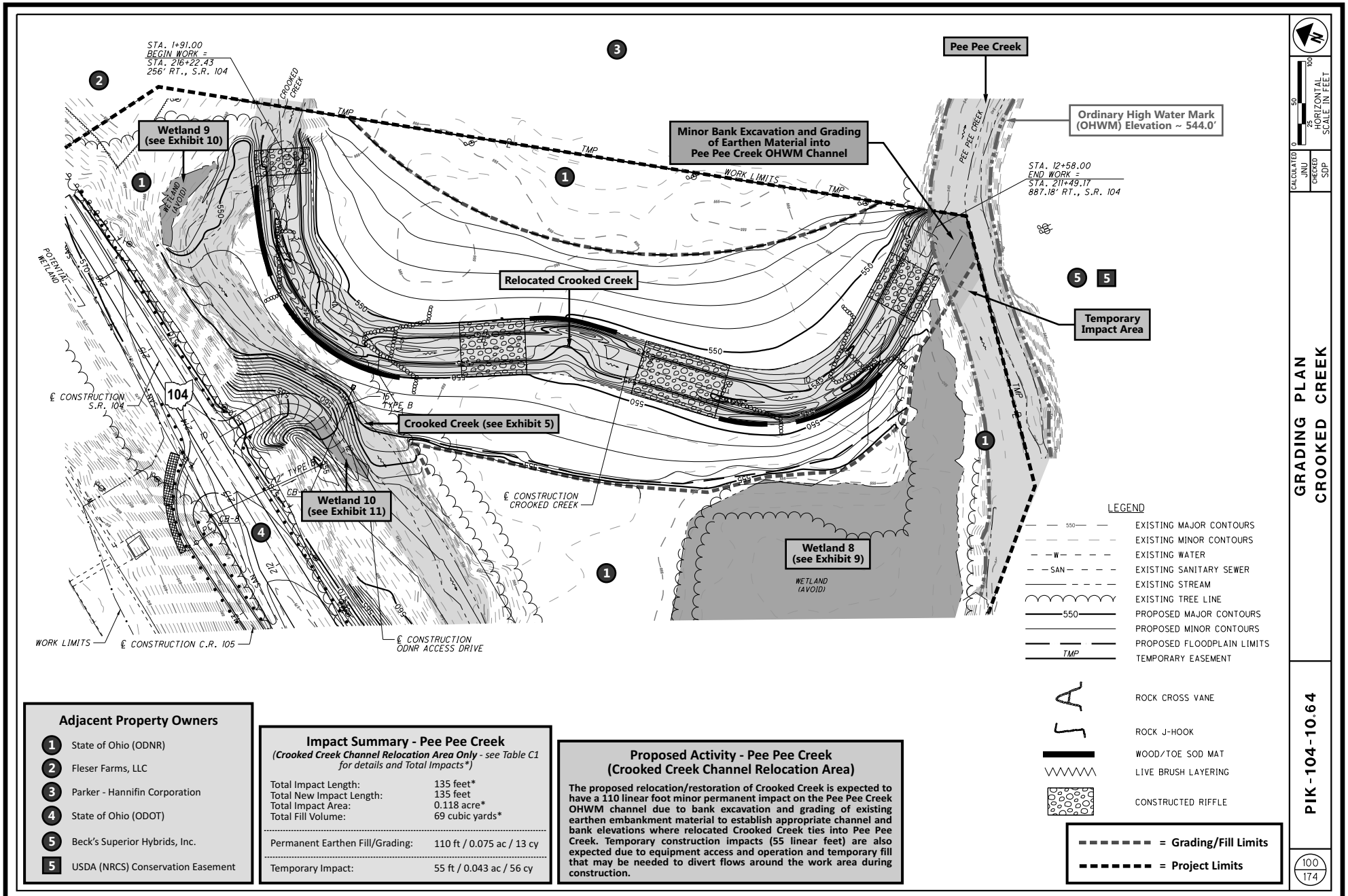
123 / 174

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Proposed Activity - Pee Pee Creek (Spillway)

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Pee Pee Creek
Sheet 3 of 21



Adjacent Property Owners

1. State of Ohio (ODNR)
2. Fleser Farms, LLC
3. Parker - Hannifin Corporation
4. State of Ohio (ODOT)
5. Beck's Superior Hybrids, Inc.

5. USDA (NRCS) Conservation Easement

Impact Summary - Pee Pee Creek

*(**Crooked Creek Channel Relocation Area Only** - see Table C1 for details and Total Impacts*)*

Total Impact Length:	135 feet*
Total New Impact Length:	135 feet
Total Impact Area:	0.118 acre*
Total Fill Volume:	69 cubic yards*
Permanent Earthen Fill/Grading:	110 ft / 0.075 ac / 13 cy
Temporary Impact:	55 ft / 0.043 ac / 56 cy

Proposed Activity - Pee Pee Creek (Crooked Creek Channel Relocation Area)

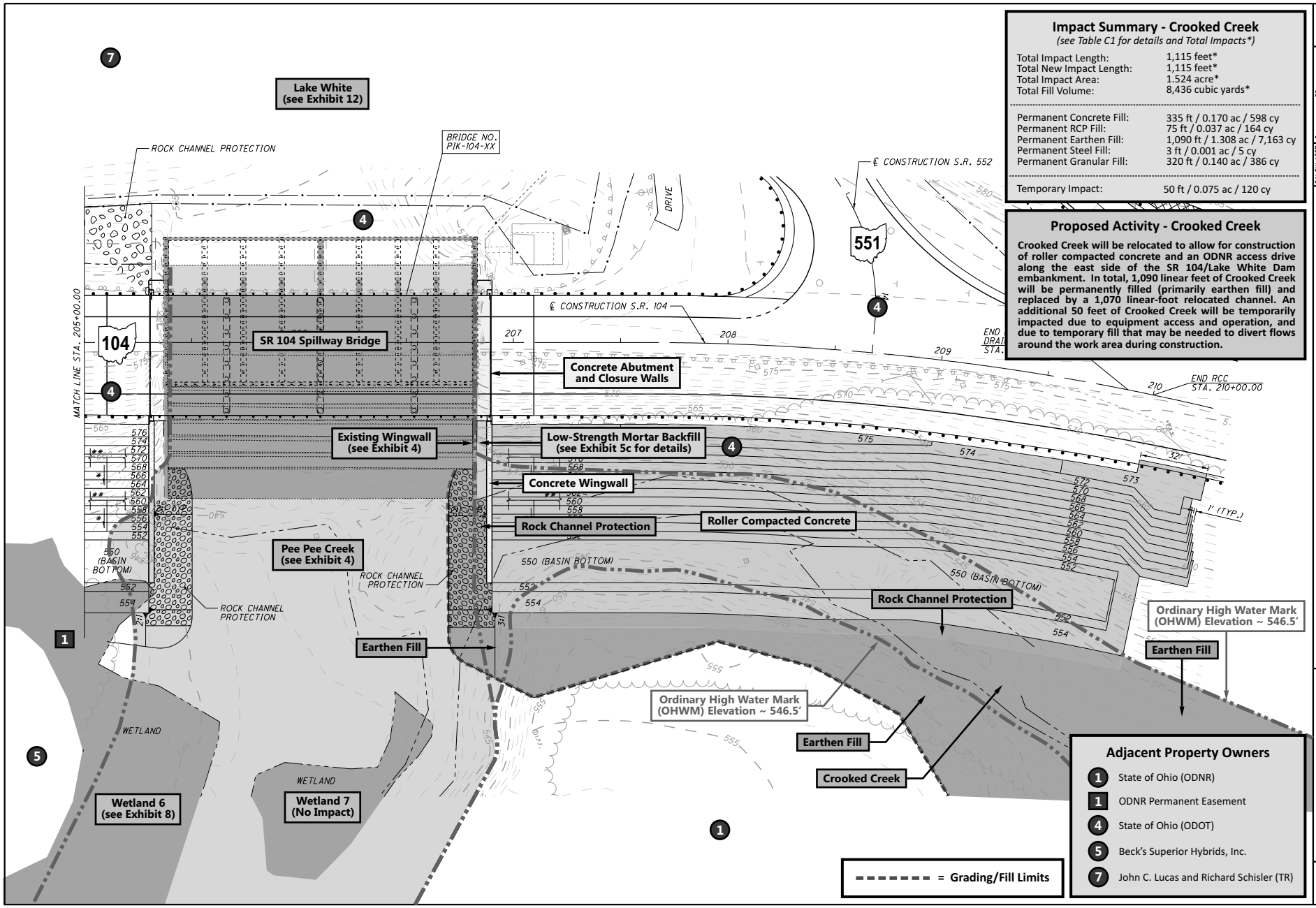
The proposed relocation/restoration of Crooked Creek is expected to have a 110 linear foot minor permanent impact on the Pee Pee Creek OHWM channel due to bank excavation and grading of existing earthen embankment material to establish appropriate channel and bank elevations where relocated Crooked Creek ties into Pee Pee Creek. Temporary construction impacts (55 linear feet) are also expected due to equipment access and operation and temporary fill that may be needed to divert flows around the work area during construction.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Proposed Activity - Pee Pee Creek (Channel Relocation)

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Pee Pee Creek at Relocated Crooked Creek Confluence
Sheet 4 of 21



Impact Summary - Crooked Creek

(see Table C1 for details and Total Impacts)*

Total Impact Length:	1,115 feet*
Total New Impact Length:	1,115 feet*
Total Impact Area:	1.524 acre*
Total Fill Volume:	8,436 cubic yards*
Permanent Concrete Fill:	335 ft / 0.170 ac / 598 cy
Permanent RCP Fill:	75 ft / 0.037 ac / 164 cy
Permanent Earthen Fill:	1,090 ft / 1.308 ac / 7,163 cy
Permanent Steel Fill:	3 ft / 0.001 ac / 5 cy
Permanent Granular Fill:	320 ft / 0.140 ac / 386 cy
Temporary Impact:	50 ft / 0.075 ac / 120 cy

Proposed Activity - Crooked Creek

Crooked Creek will be relocated to allow for construction of roller compacted concrete and an ODNR access drive along the east side of the SR 104/Lake White Dam embankment. In total, 1,090 linear feet of Crooked Creek will be permanently filled (primarily earthen fill) and replaced by a 1,070 linear-foot relocated channel. An additional 50 feet of Crooked Creek will be temporarily impacted due to equipment access and operation, and due to temporary fill that may be needed to divert flows around the work area during construction.

Adjacent Property Owners

- 1 State of Ohio (ODNR)
- 1 ODNR Permanent Easement
- 4 State of Ohio (ODOT)
- 5 Beck's Superior Hybrids, Inc.
- 7 John C. Lucas and Richard Schisler (TR)

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ALB CHECKED TCM

ROLLER COMPACTED CONCRETE LAYOUT
STA. 205+00.00 TO STA. 210+00.00

PIK-104-10.64

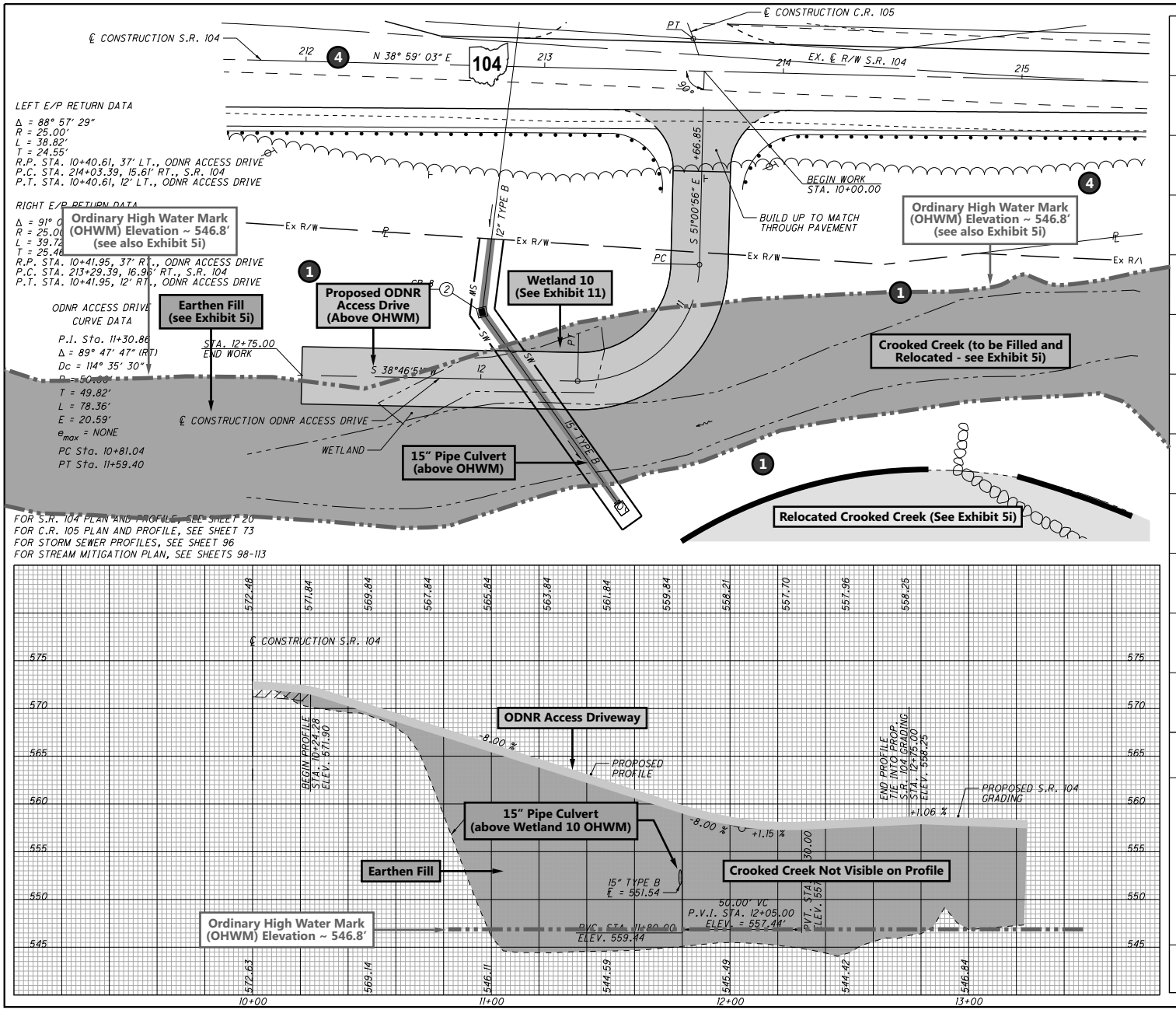
123 174

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Proposed Activity - Crooked Creek

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Crooked Creek
Sheet 5 of 21



Impact Summary - Crooked Creek
See Exhibit 5a

Proposed Activity - Crooked Creek
See Exhibit 5a

HORIZONTAL SCALE IN FEET

CALCULATED SLP
CHECKED ALB

PLAN AND PROFILE
ODNR ACCESS DRIVE

PIK-104-10.64

REF NO.	STATION		SIDE
	OM	TO	

ED TO GENERAL SUMMARY

Adjacent Property Owners

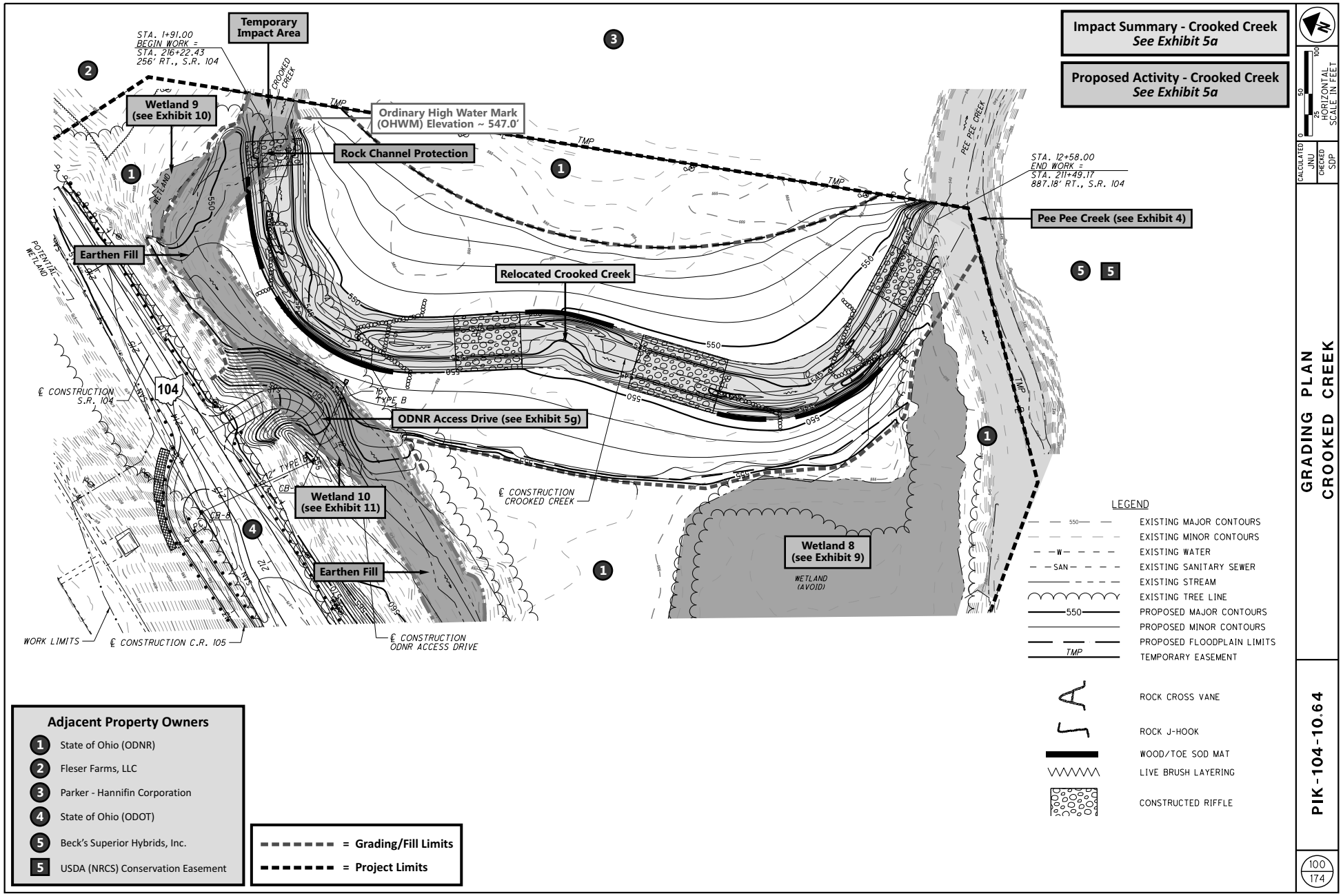
1. State of Ohio (ODNR)
4. State of Ohio (ODOT)

91
174

Proposed Activity - Crooked Creek

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Crooked Creek
Sheet 6 of 21

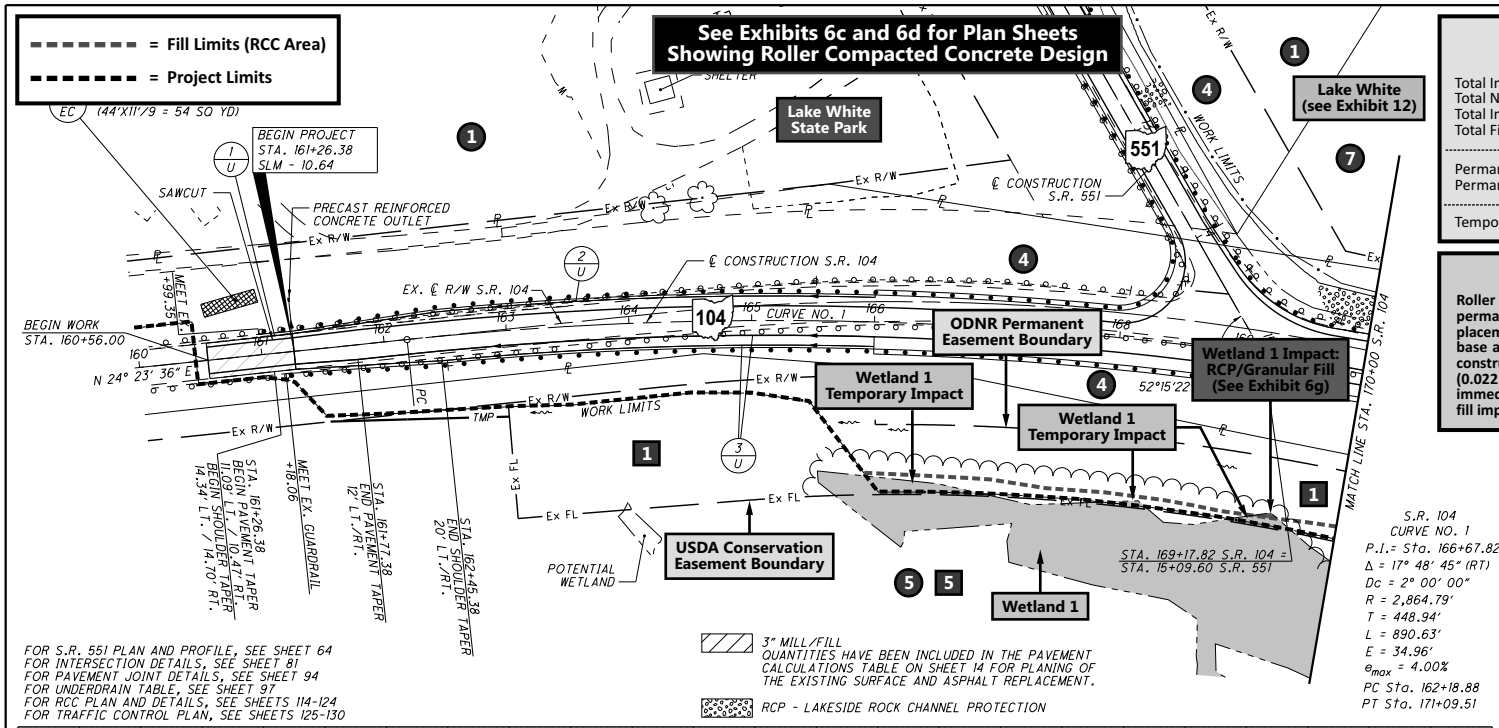


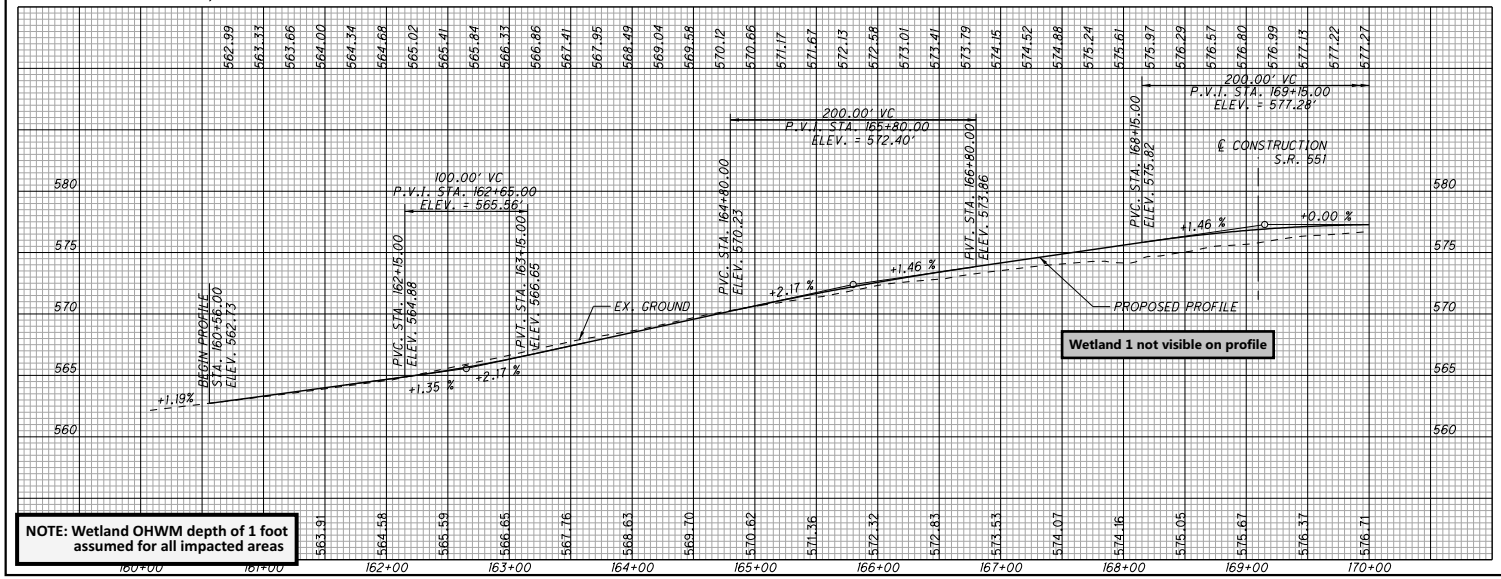
STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Proposed Activity - Crooked Creek

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Relocated Crooked Creek for Stream Mitigation
Sheet 7 of 21





NOTE: Wetland OHWM depth of 1 foot assumed for all impacted areas

Impact Summary - Wetland 1

(see Table C2 for details and Total Impacts)*

Total Impact Length:	NA
Total New Impact Length:	NA
Total Impact Area:	0.024 acre*
Total Fill Volume:	4 cubic yards*
Permanent RCP Fill:	NA / 0.001 ac / 2 cy
Permanent Granular Fill:	NA / 0.001 ac / 2 cy
Temporary Impact:	NA / 0.022 ac / 0 cy

Proposed Activity - Wetland 1

Roller compacted concrete (RCC) construction is expected to permanently impact 0.002 acre of Wetland 1 due to the placement of rock channel protection (RCP) on a granular base along the outside edge of the RCC. Minor temporary construction impacts are also expected in three small areas (0.022 acre total) due to equipment access and operation immediately adjacent to the RCC fill area. No excavation or fill impacts are expected in these temporary impact areas.

SIDE	SUMMARY

Adjacent Property Owners

- (1) State of Ohio (ODNR)
- (1) ODNR Permanent Easement
- (4) State of Ohio (ODOT)
- (5) Beck's Superior Hybrids, Inc.
- (5) USDA (NRCS) Conservation Easement
- (7) John C. Lucas and Richard Schisler (TR)

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SLP CHECKED ALB

PLAN AND PROFILE S.R. 104
STA. 160+56.00 TO STA. 170+00.00

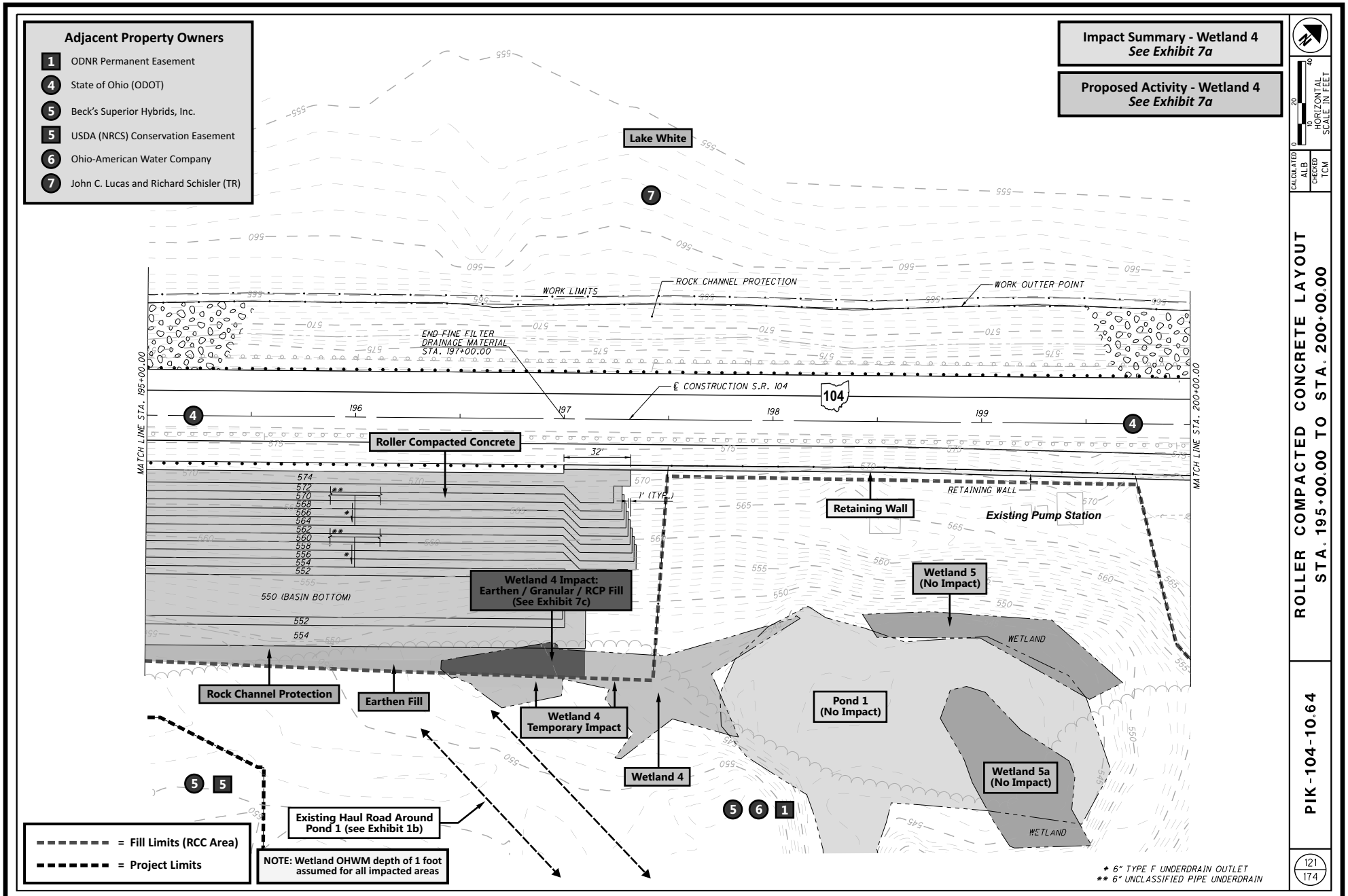
PIK-104-10.64

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Proposed Activity - Wetland 1

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan and Cross Section of Wetland 1
Sheet 8 of 21



STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Proposed Activity - Wetland 4

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Wetland 4
Sheet 9 of 21

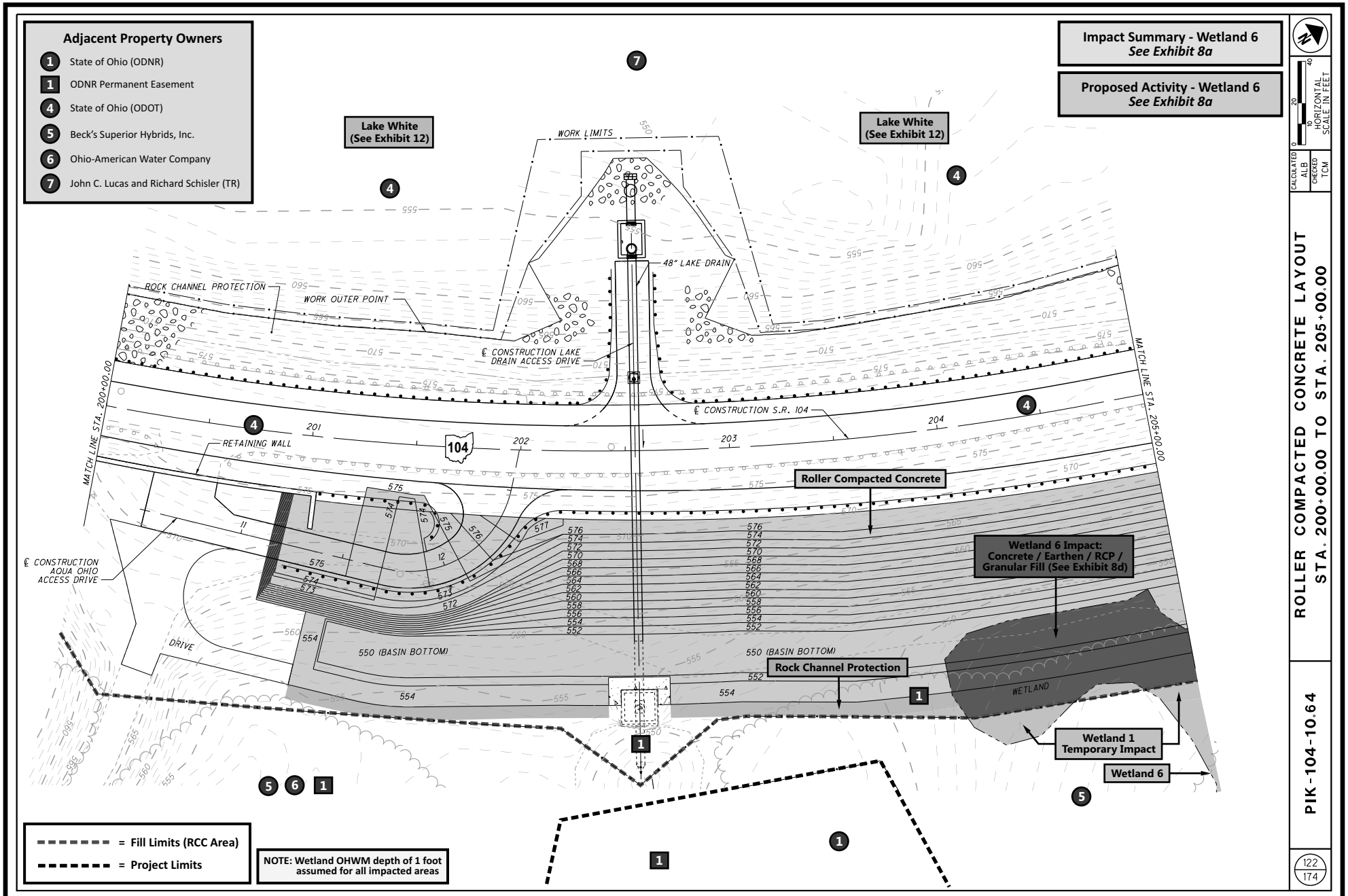


Exhibit 8b
Proposed Activity - Wetland 6

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of south end of Wetland 6
Sheet 10 of 21

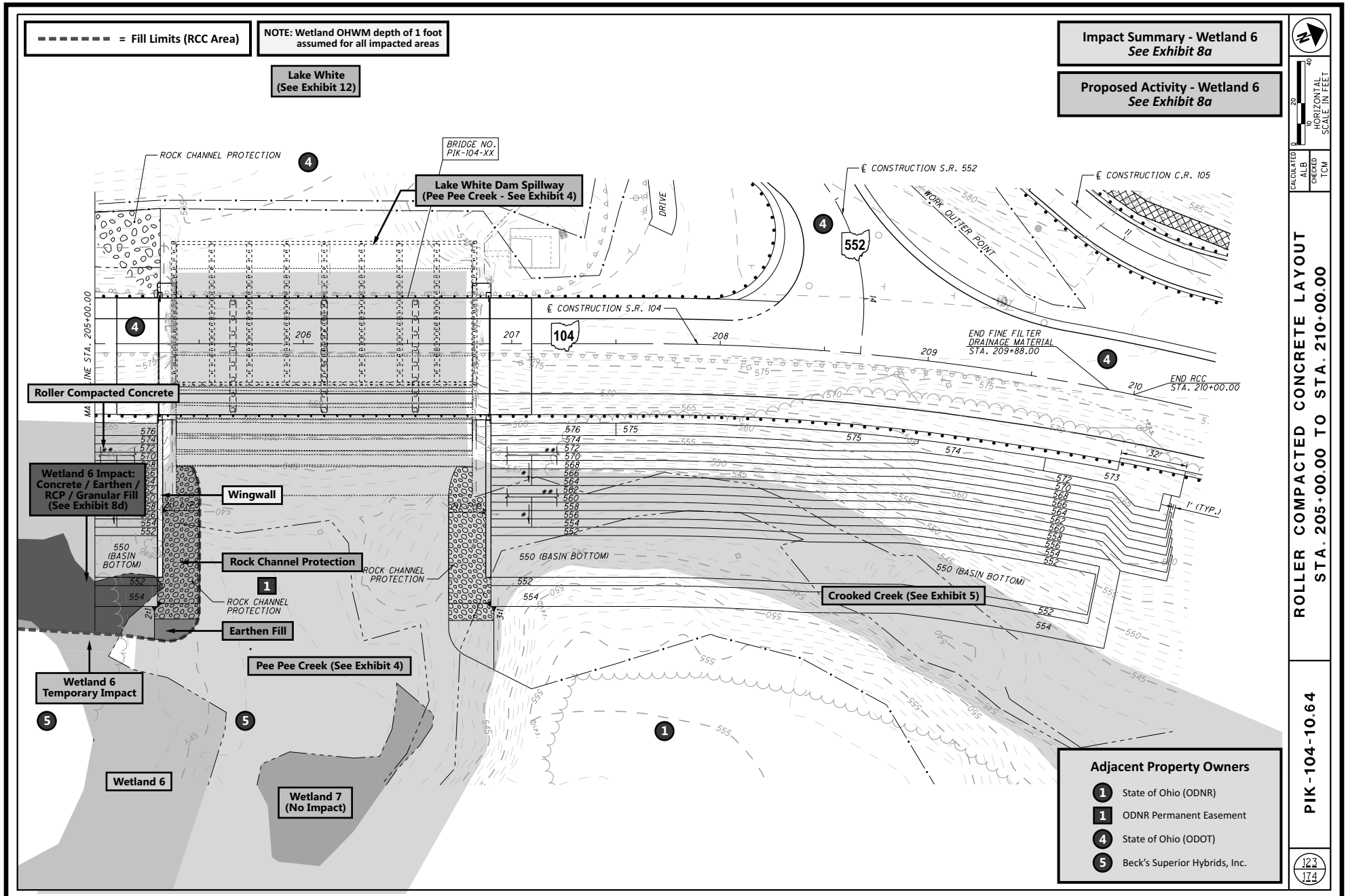


Exhibit 8c
Proposed Activity - Wetland 6

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of north end of Wetland 6
Sheet 11 of 21

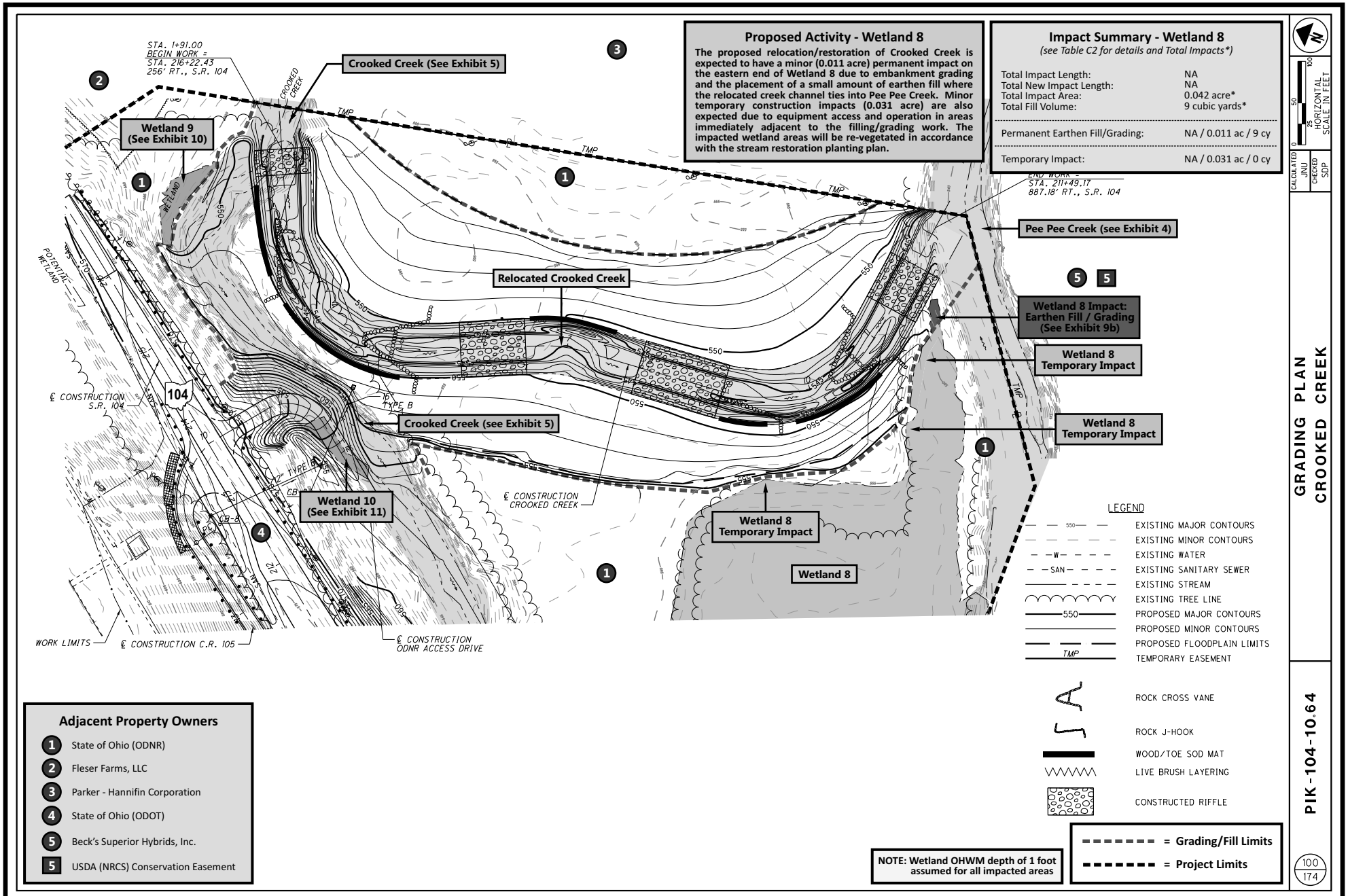
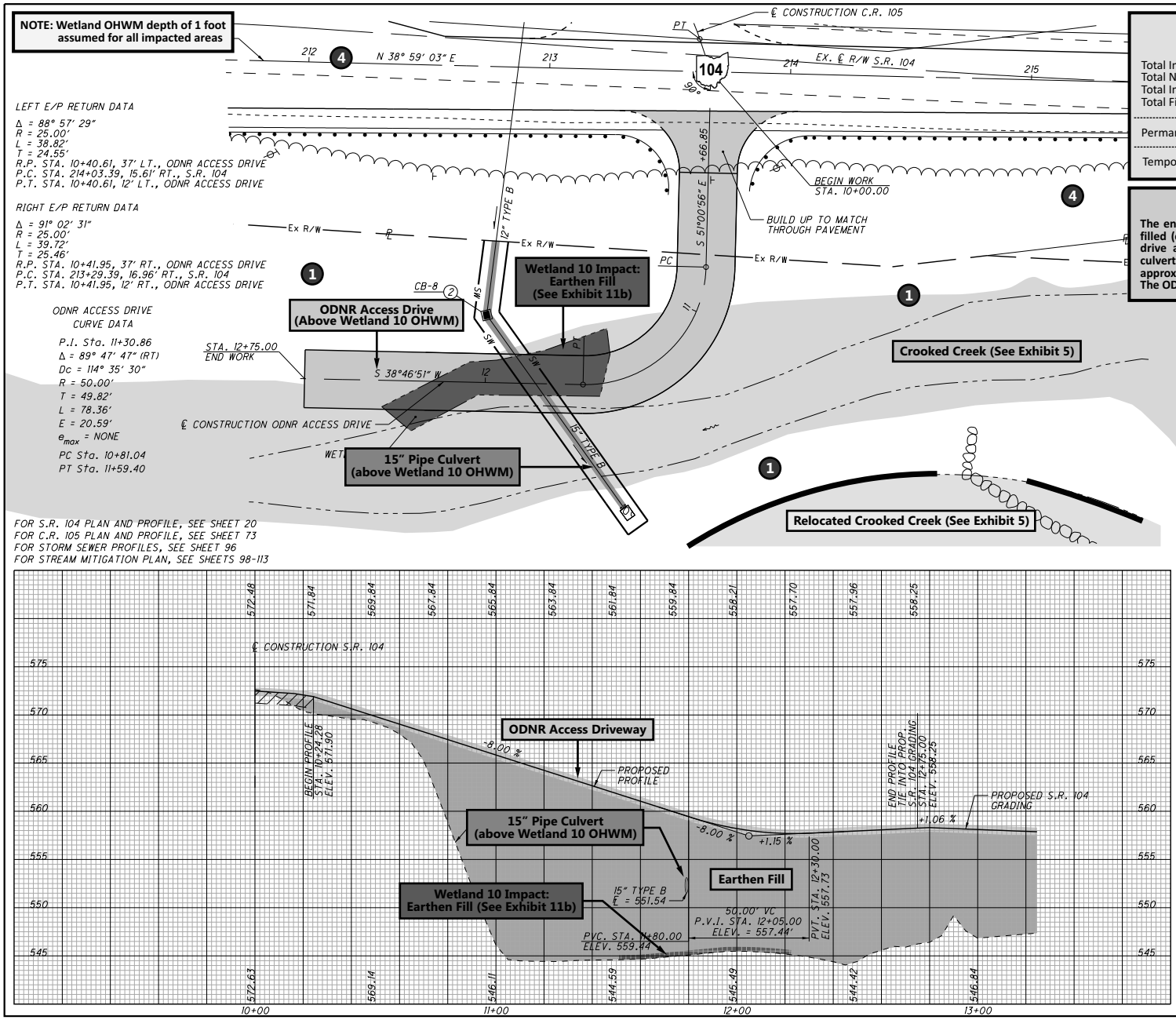


Exhibit 9a
Proposed Activity - Wetland 8

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Wetland 8
Sheet 12 of 21



Impact Summary - Wetland 10

(see Table C2 for details and Total Impacts)*

Total Impact Length:	NA
Total New Impact Length:	NA
Total Impact Area:	0.040 acre*
Total Fill Volume:	65 cubic yards*
Permanent Earthen Fill:	NA / 0.040 ac / 65 cy
Temporary Impact:	NA / 0.000 ac / 0 cy

Proposed Activity - Wetland 10

The entire 0.040-acre Wetland 10 area will be permanently filled (earthen fill) for the construction of an ODNR access drive and the relocation of Crooked Creek. A 15" pipe culvert will be placed in the earthen fill at an elevation of approximately 553', which is above the Wetland 10 OHWM. The ODNR access drive is also above the Wetland 10 OHWM.

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED SLP CHECKED ALB

PLAN AND PROFILE
ODNR ACCESS DRIVE

REF NO.	STATION FROM	STATION TO	SIDE	GENERAL SUMMARY

Adjacent Property Owners

1 State of Ohio (ODNR)

4 State of Ohio (ODOT)

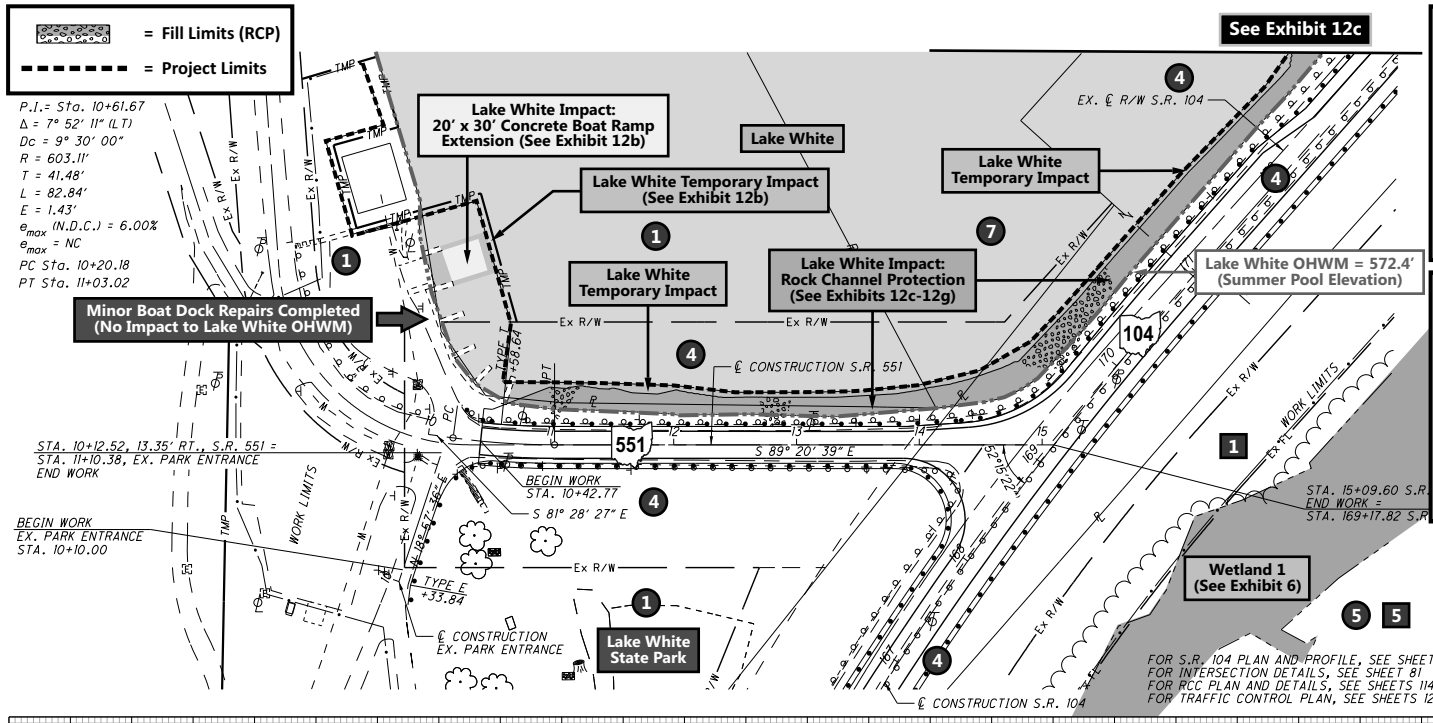
PIK-104-10.64

91 / 174

Exhibit 11a
Proposed Activity - Wetland 10

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Wetland 10
Sheet 13 of 21



Impact Summary - Lake White

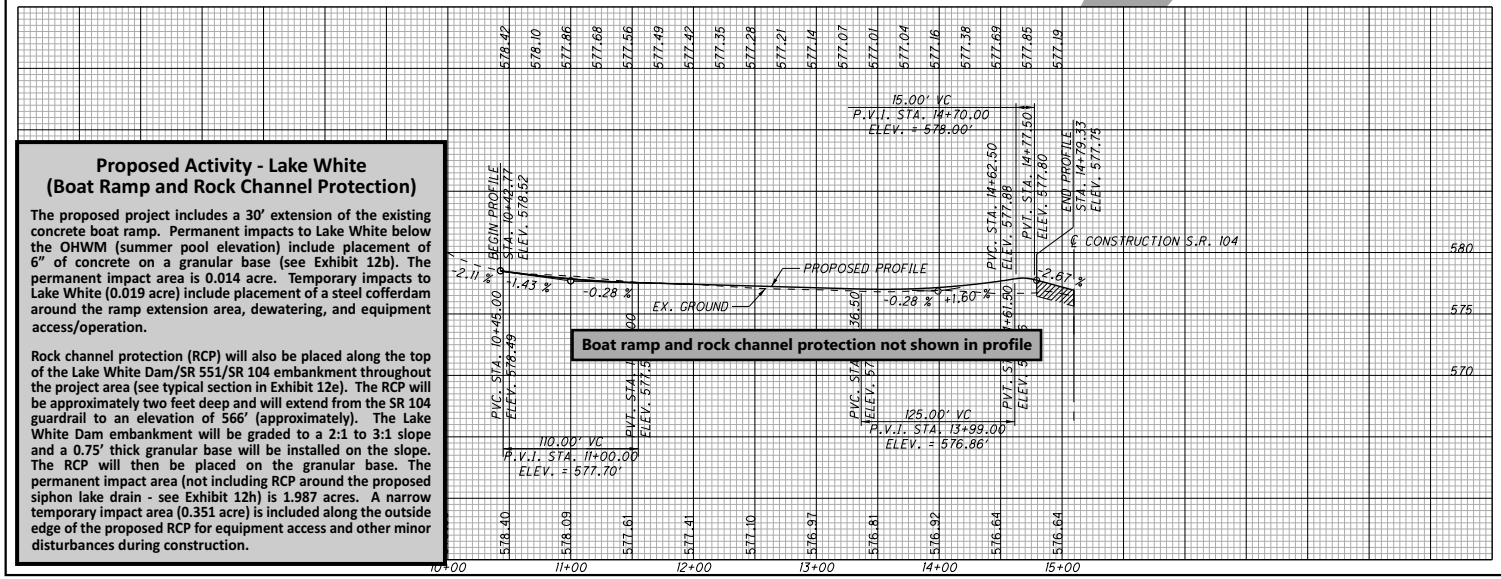
*(**Boat Ramp Extension Only** - see Table C3 for details and Total Impacts*)*

Total Impact Length:	NA
Total New Impact Length:	NA
Total Impact Area:	0.033 acre*
Total Fill Volume:	50 cubic yards*
Permanent Concrete Fill:	NA / 0.014 ac / 12 cy
Permanent Granular Fill:	NA / 0.014 ac / 23 cy
Temporary Impact:	NA / 0.019 ac / 15 cy

Impact Summary - Lake White

*(**Rock Channel Protection Only** - see Table C3 for details and Total Impacts*)*

Total Impact Length:	NA
Total New Impact Length:	NA
Total Impact Area:	2.338 acres*
Total Fill Volume:	8,815 cubic yards*
Permanent RCP Fill:	NA / 1.987 ac / 6,411 cy
Permanent Granular Fill:	NA / 1.987 ac / 2,404 cy
Temporary Impact:	NA / 0.351 ac / 0 cy



Proposed Activity - Lake White (Boat Ramp and Rock Channel Protection)

The proposed project includes a 30' extension of the existing concrete boat ramp. Permanent impacts to Lake White below the OHWM (summer pool elevation) include placement of 6" of concrete on a granular base (see Exhibit 12b). The permanent impact area is 0.014 acre. Temporary impacts to Lake White (0.019 acre) include placement of a steel cofferdam around the ramp extension area, dewatering, and equipment access/operation.

Rock channel protection (RCP) will also be placed along the top of the Lake White Dam/SR 551/SR 104 embankment throughout the project area (see typical section in Exhibit 12e). The RCP will be approximately two feet deep and will extend from the SR 104 guardrail to an elevation of 566' (approximately). The Lake White Dam embankment will be graded to a 2:1 to 3:1 slope and a 0.75' thick granular base will be installed on the slope. The RCP will then be placed on the granular base. The permanent impact area (not including RCP around the proposed siphon lake drain - see Exhibit 12h) is 1.987 acres. A narrow temporary impact area (0.351 acre) is included along the outside edge of the proposed RCP for equipment access and other minor disturbances during construction.

SIDE

SUMMARY

Adjacent Property Owners

- (1) State of Ohio (ODNR)
- [1] ODNR Permanent Easement
- (4) State of Ohio (ODOT)
- (5) Beck's Superior Hybrids, Inc.
- [5] USDA (NRCS) Conservation Easement
- (7) John C. Lucas and Richard Schisler (TR)

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SLP CHECKED ALB

PLAN AND PROFILE S.R. 551
STA. 10+42.77 TO STA. 15+09.47

PIK-104-10.64

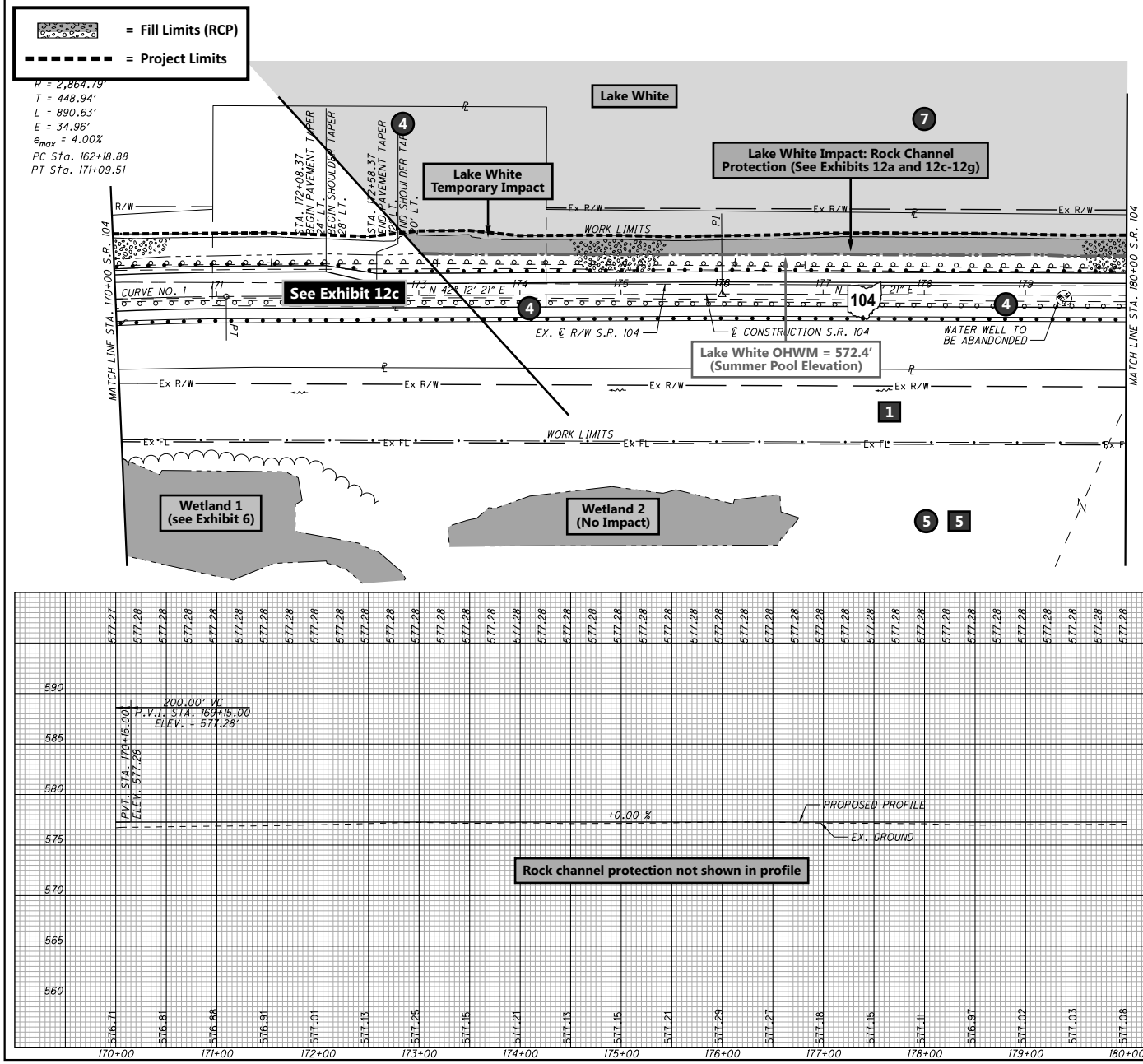
64
174

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Exhibit 12a
Proposed Activity - Lake White (Boat Ramp and RCP)

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

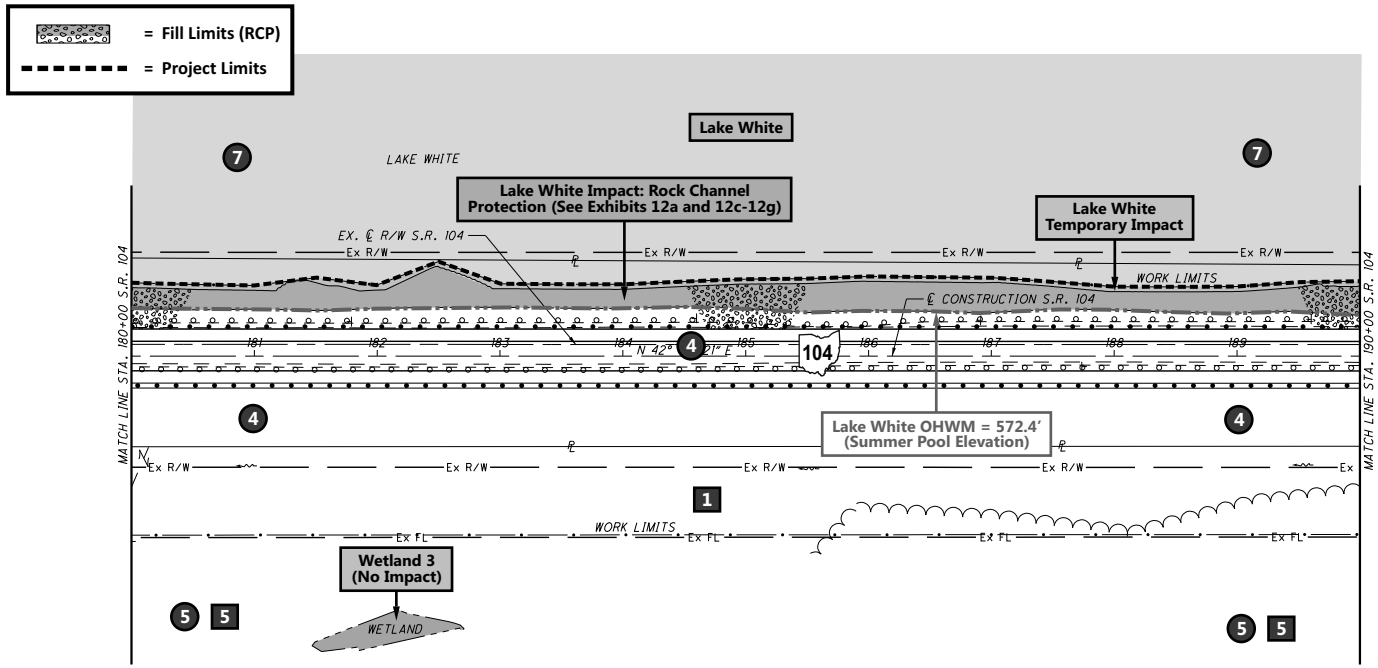
LRH-2013-00487-SCR
Pike County, Ohio
Plan of and Cross Section of Lake White
Sheet 14 of 21

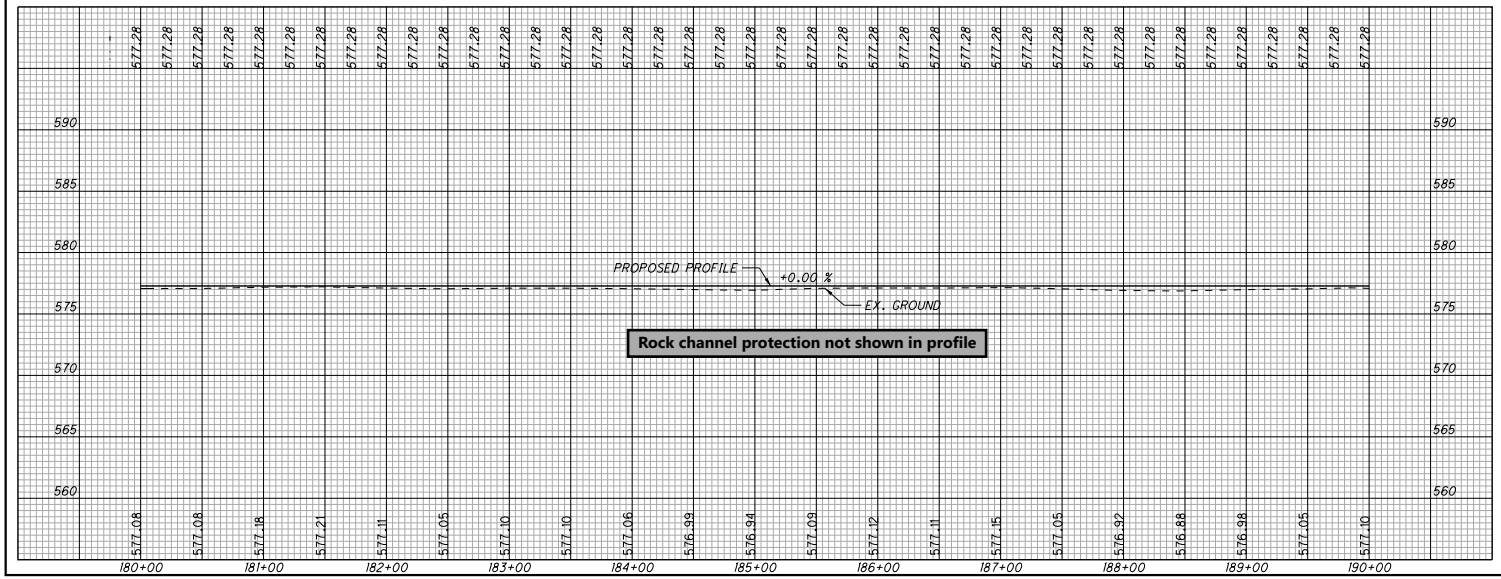


Impact Summary - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

Proposed Activity - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

| | | |





Impact Summary - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

Proposed Activity - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

SIDE

AL SUMMARY

Adjacent Property Owners

- 1 ODNR Permanent Easement
- 4 State of Ohio (ODOT)
- 5 Beck's Superior Hybrids, Inc.
- 5 USDA (NRCS) Conservation Easement
- 7 John C. Lucas and Richard Schisler (TR)

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SLP CHECKED ALB

PLAN AND PROFILE S.R. 104
STA. 180+00.00 TO STA. 190+00.00

PIK-104-10.64

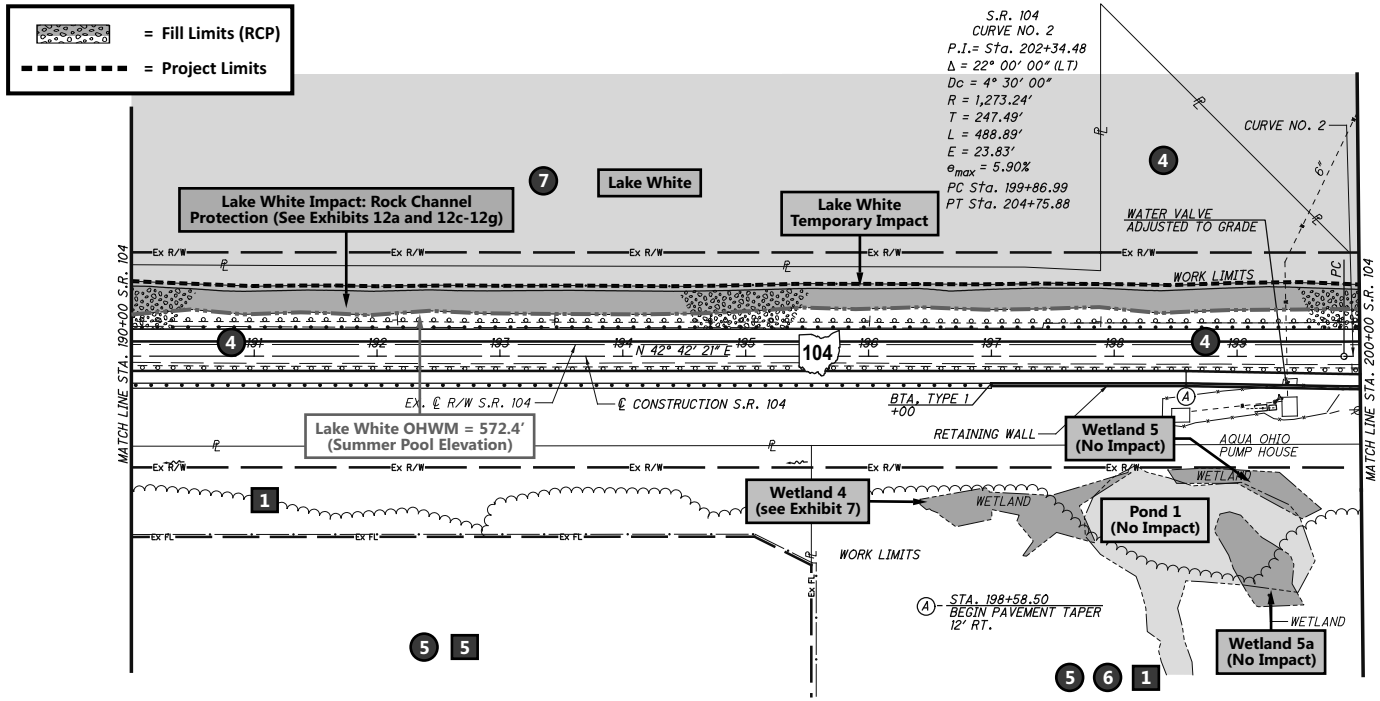
17
174

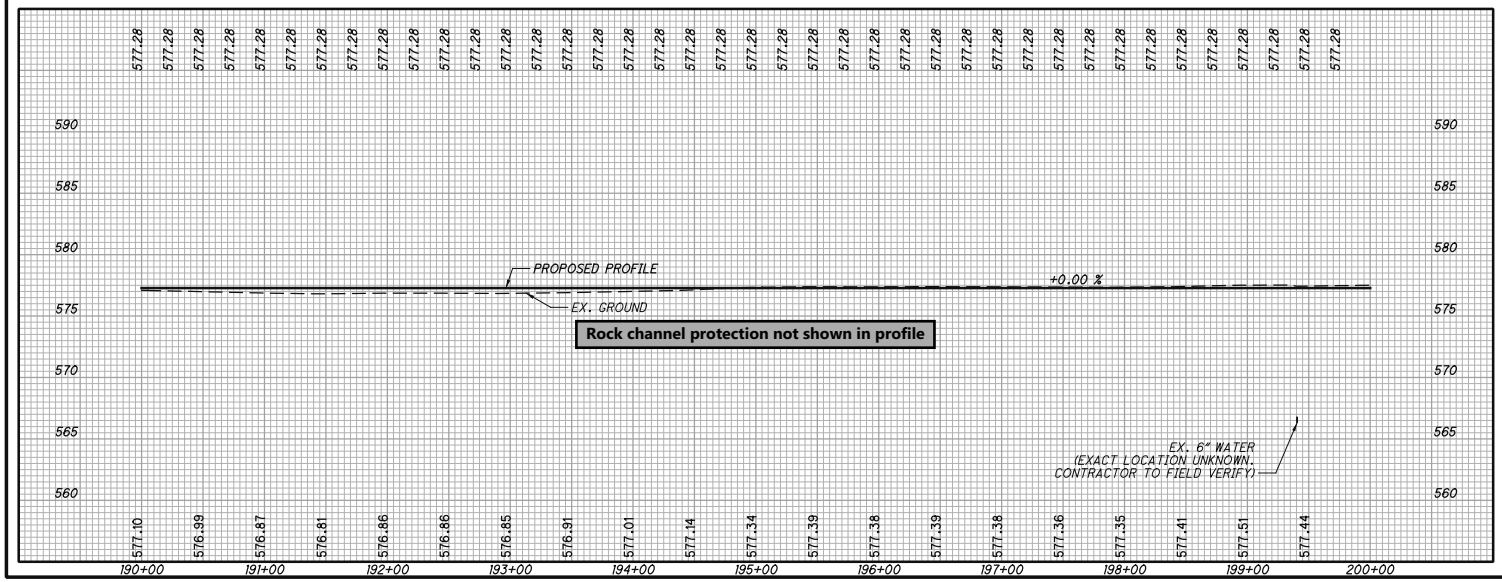
STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Exhibit 12d
Proposed Activity - Lake White (Boat Ramp and RCP)

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Lake White and SR 104 Cross Section
Sheet 16 of 21

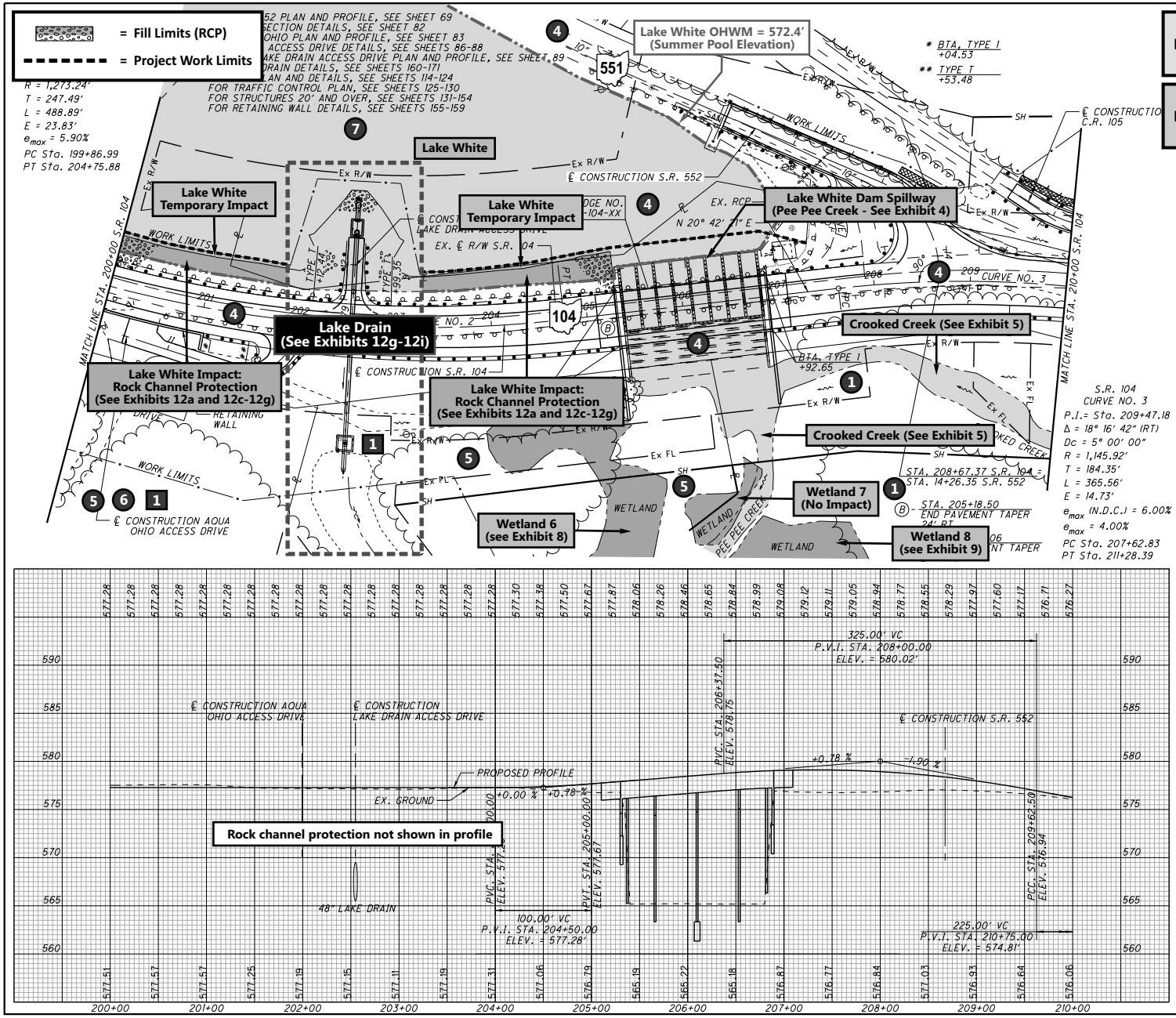




Impact Summary - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

Proposed Activity - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

| SIDE | | |



Impact Summary - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

Proposed Activity - Lake White Boat Ramp and Rock Channel Protection
See Exhibit 12a

| SIDE | | |

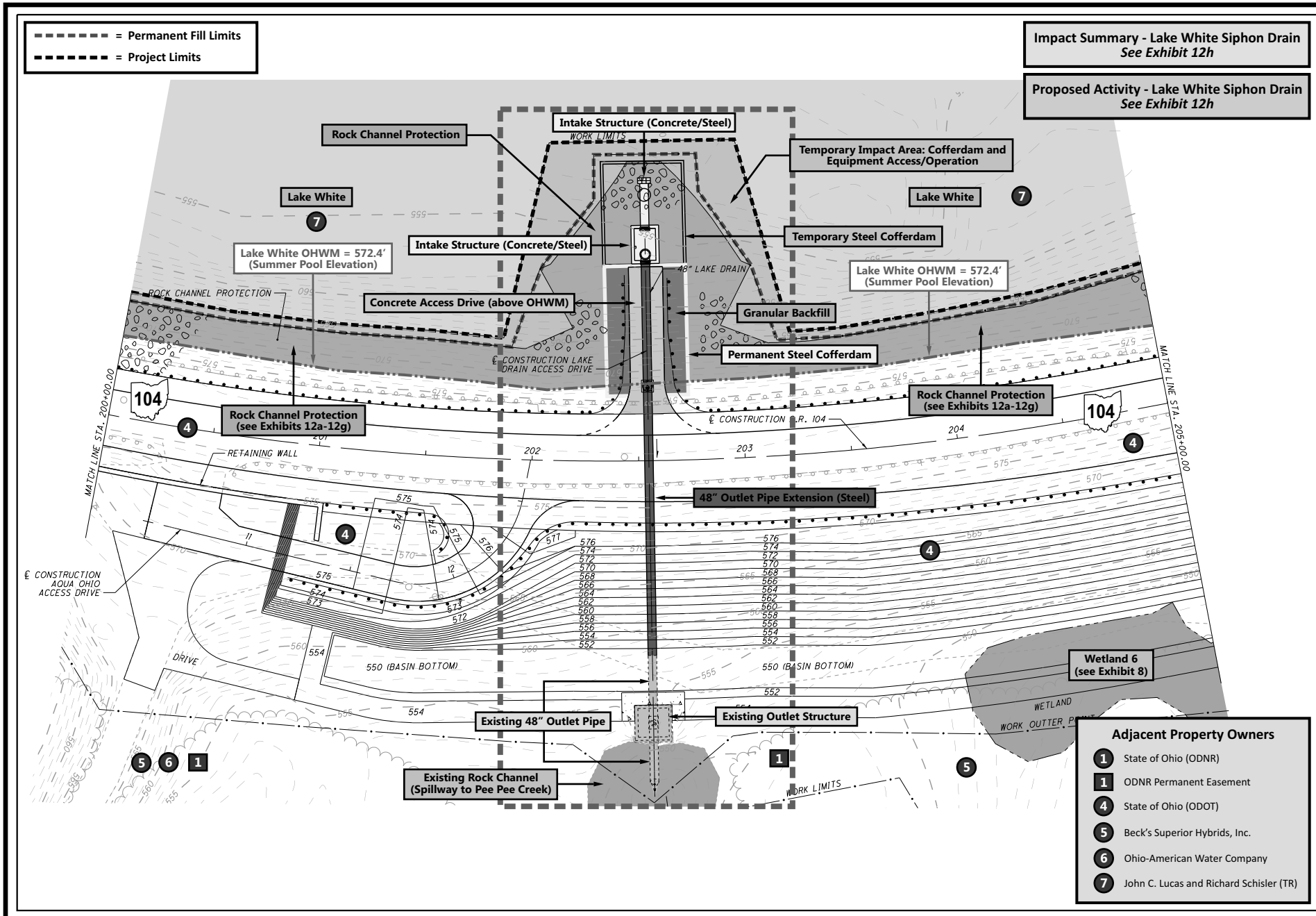
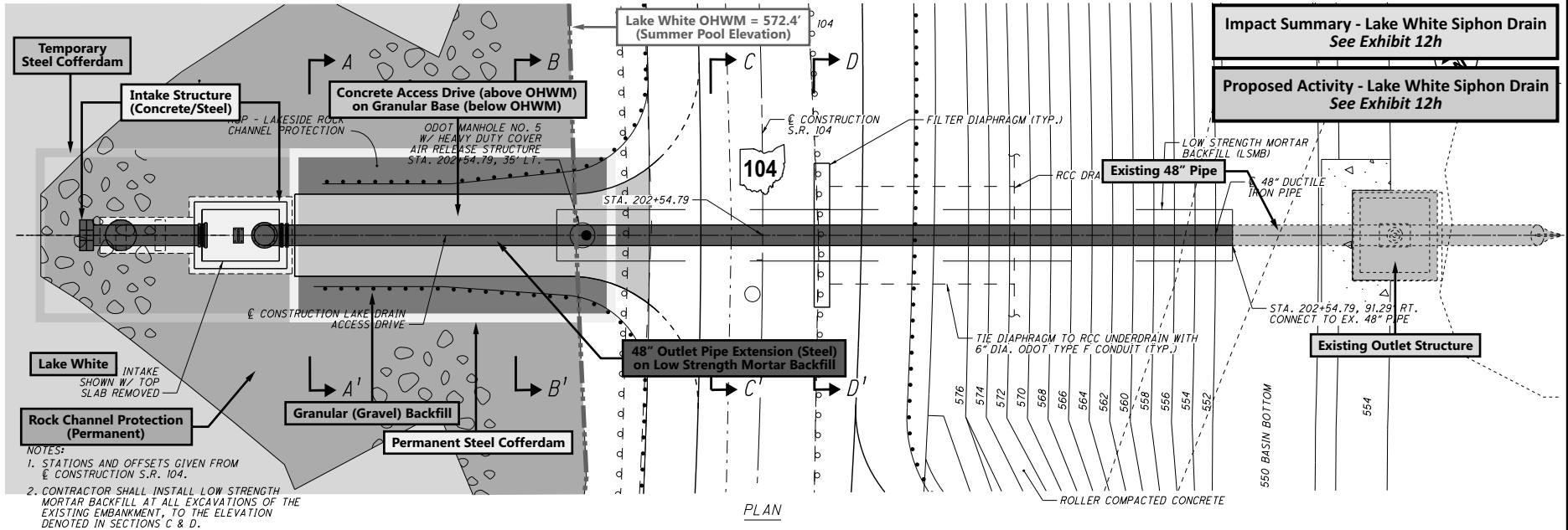


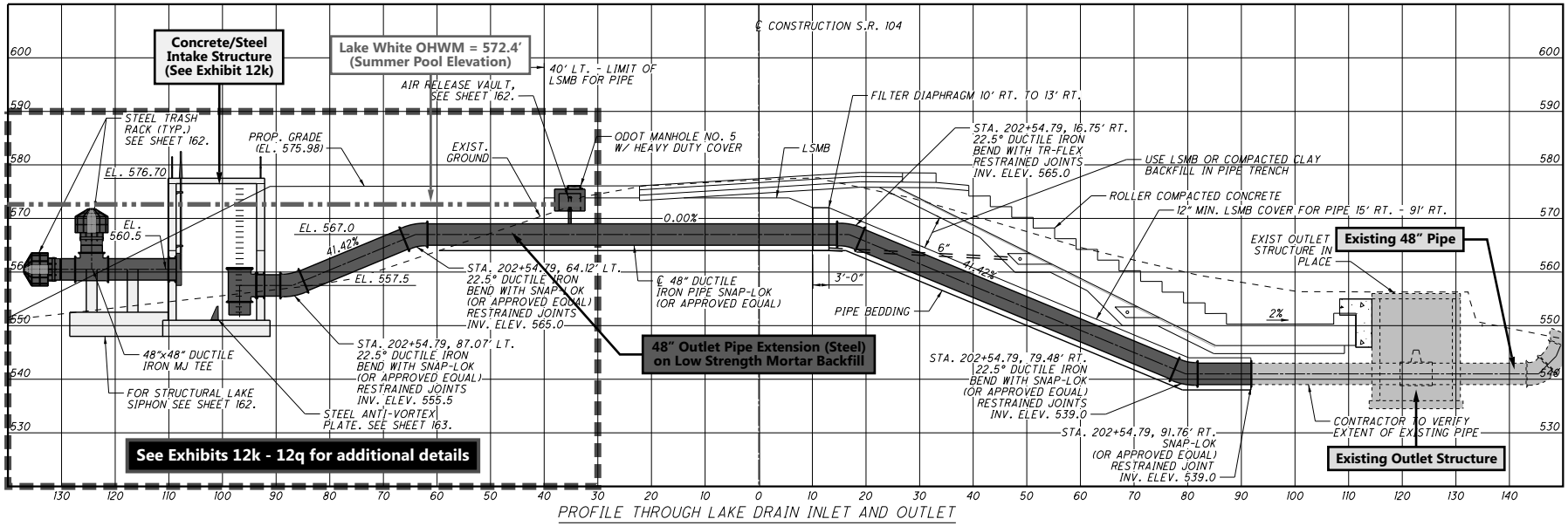
Exhibit 12i
Proposed Activity - Lake White (Drain)

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Lake White and SR 104 Cross Section
Sheet 19 of 21



NOTES:
1. STATIONS AND OFFSETS GIVEN FROM ℄ CONSTRUCTION S.R. 104.
2. CONTRACTOR SHALL INSTALL LOW STRENGTH MORTAR BACKFILL AT ALL EXCAVATIONS OF THE EXISTING EMBANKMENT, TO THE ELEVATION DENOTED IN SECTIONS C & D.
3. CONTRACTOR TO FIELD LOCATE EXISTING OUTLET PIPE PRIOR TO CONSTRUCTING THE REMAINDER OF THE LAKE SIPHON DRAIN.



DESIGN AGENCY
Stantec Consulting Services Inc.
1500 Lake Shore Drive, Suite 100
Columbus, Ohio 43204
(614) 486-4383

DESIGNED	DRAWN	REVIEWED	DATE
LAM	TWB	JWE	2/3/14
CHECKED	REVISED	STRUCTURE FILE NUMBER	
MAH			

SIPHON - PLAN AND PROFILE

PIK-104-10.64
PID No. 83667

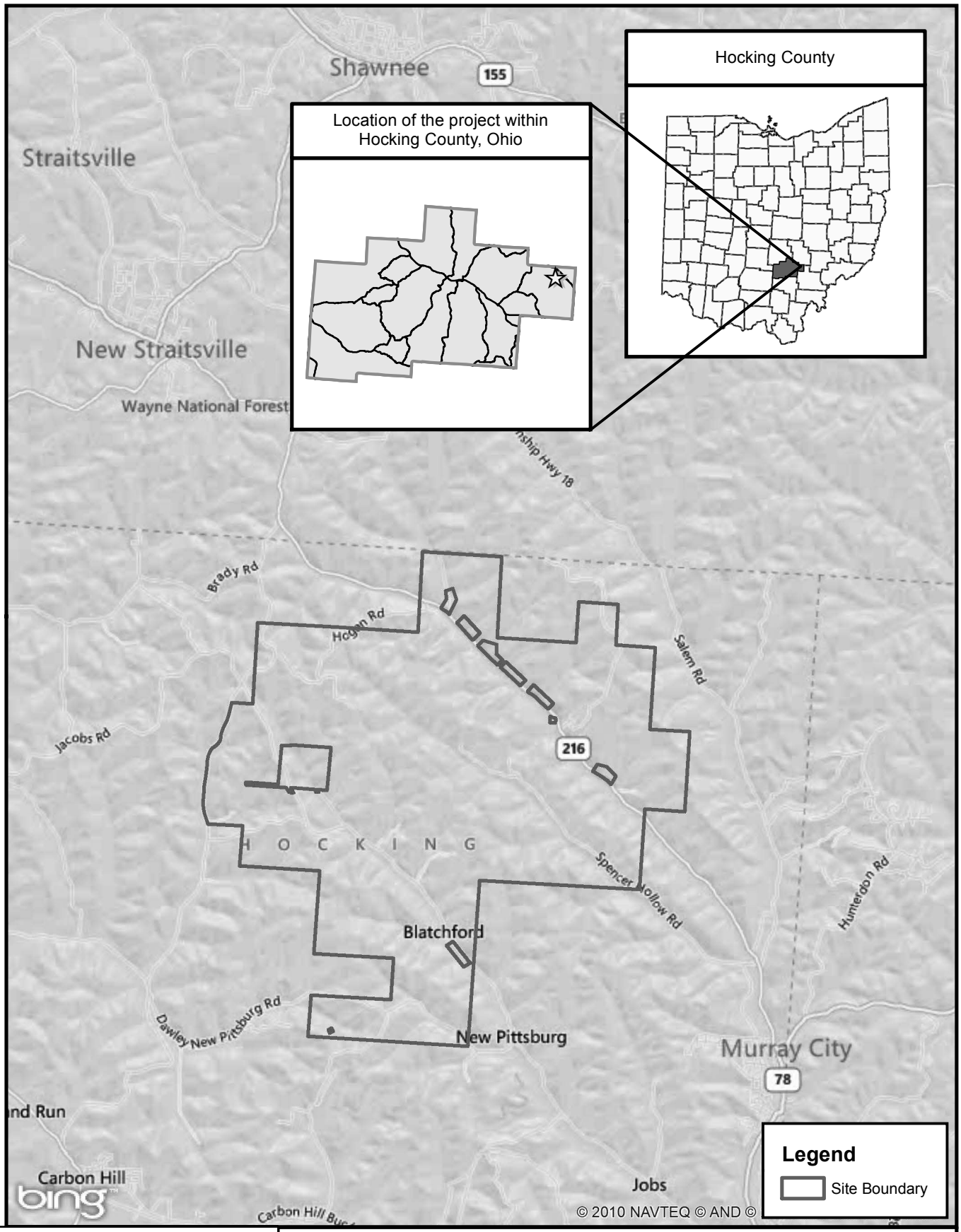
30/44

160/174

Exhibit 12j
Proposed Activity - Lake White (Drain)

PIK-104-10.64; PID 83667
Lake White Improvements
Pike County, Ohio

LRH-2013-00487-SCR
Pike County, Ohio
Plan of Lake White and SR 104 Cross Section
Sheet 20 of 21



IS\Exhibits\Exhibit1_LocationMap.mxd

LRH-2013-00487-SCR
Hocking County, Ohio
Location Map of Proposed Off-site Stream Mitigation Area
Sheet 20 of 21

WARD TOWNSHIP, HOCKING COUNTY, OHIO

SCCC2 Stream Mitigation Area
Location Map
Exhibit 1

SCALE: 1" = 4,500'

0 2,250 4,500 9,000 Feet

Source: Microsoft Virtual Earth

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