

Siting Evaluation Data 10/17/16



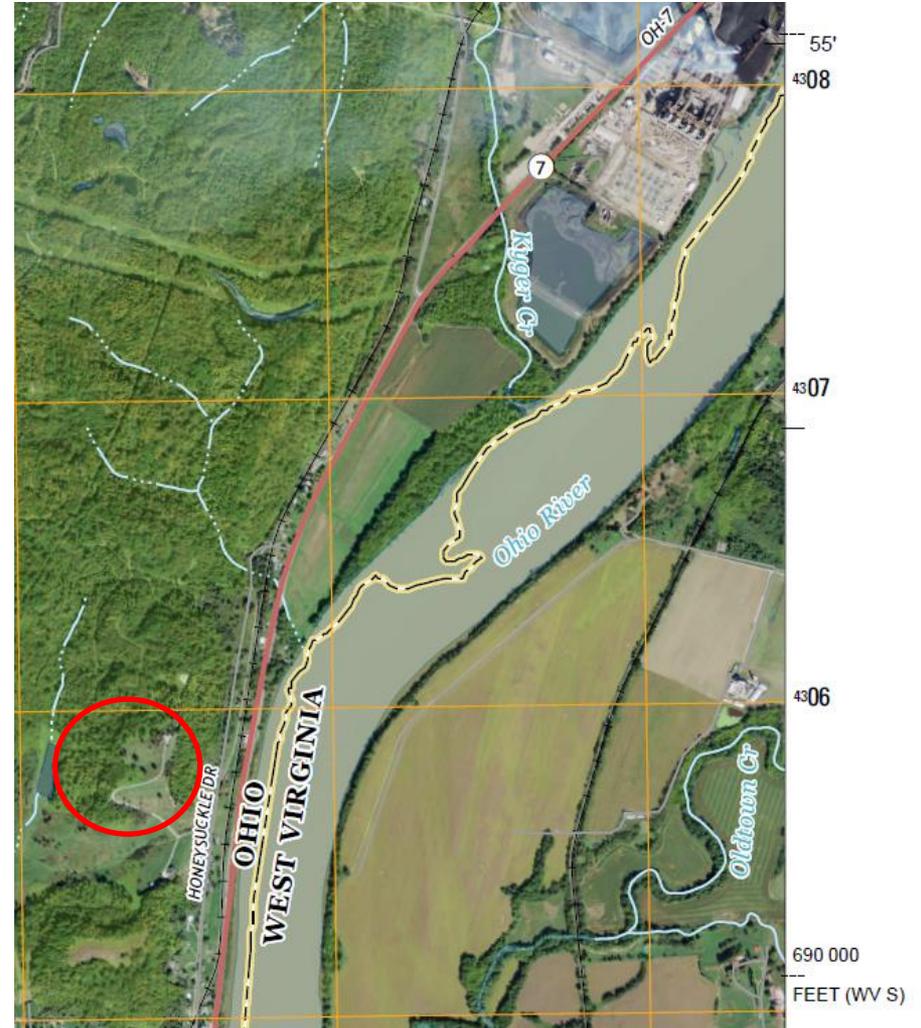
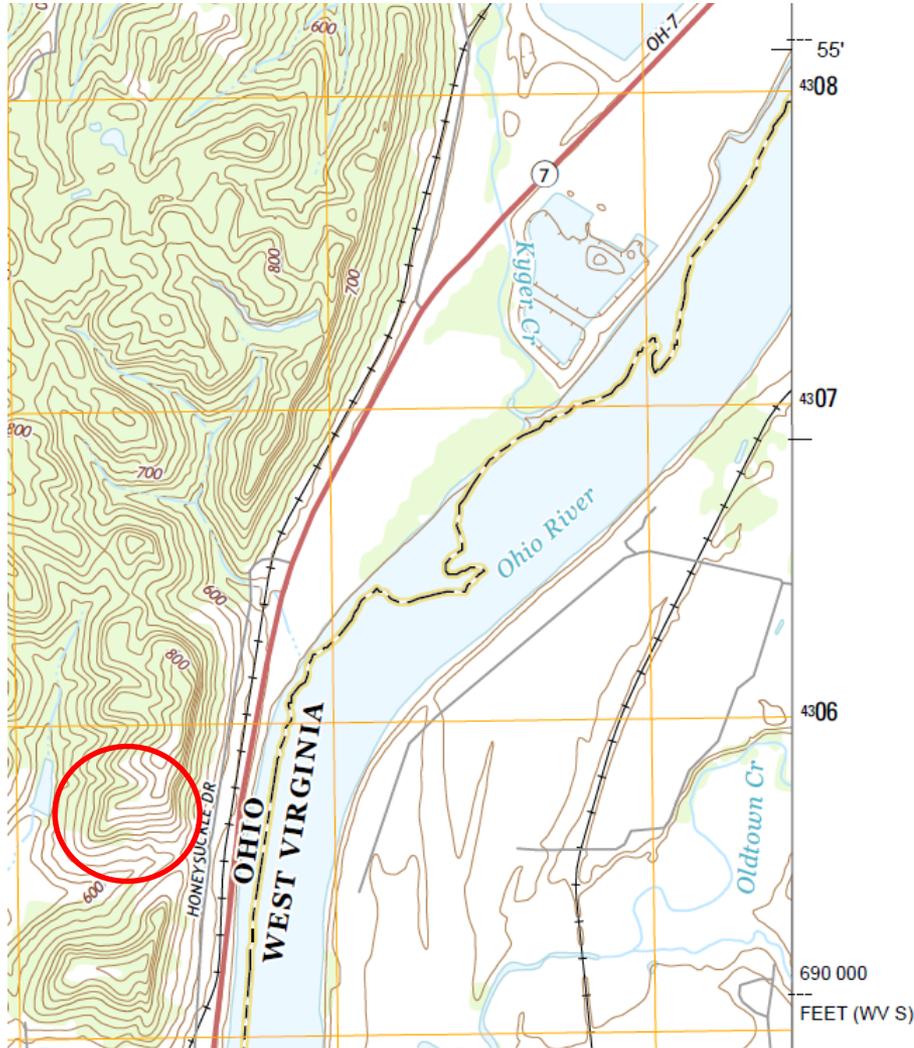
Kyger Creek & Gavin SO₂ Network

Hill Site

Latitude: 38.950192° N

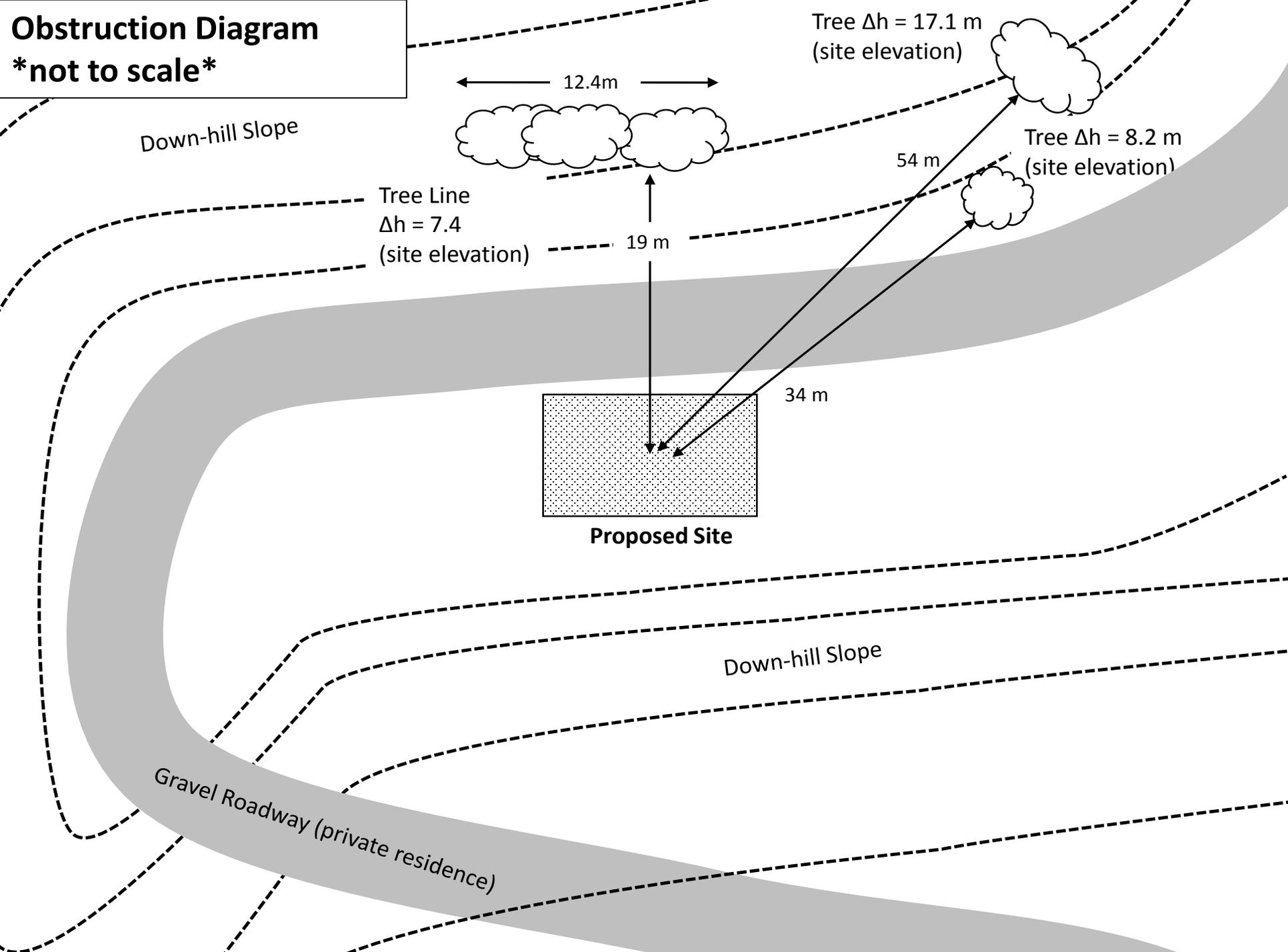
Longitude: 82.121453° W

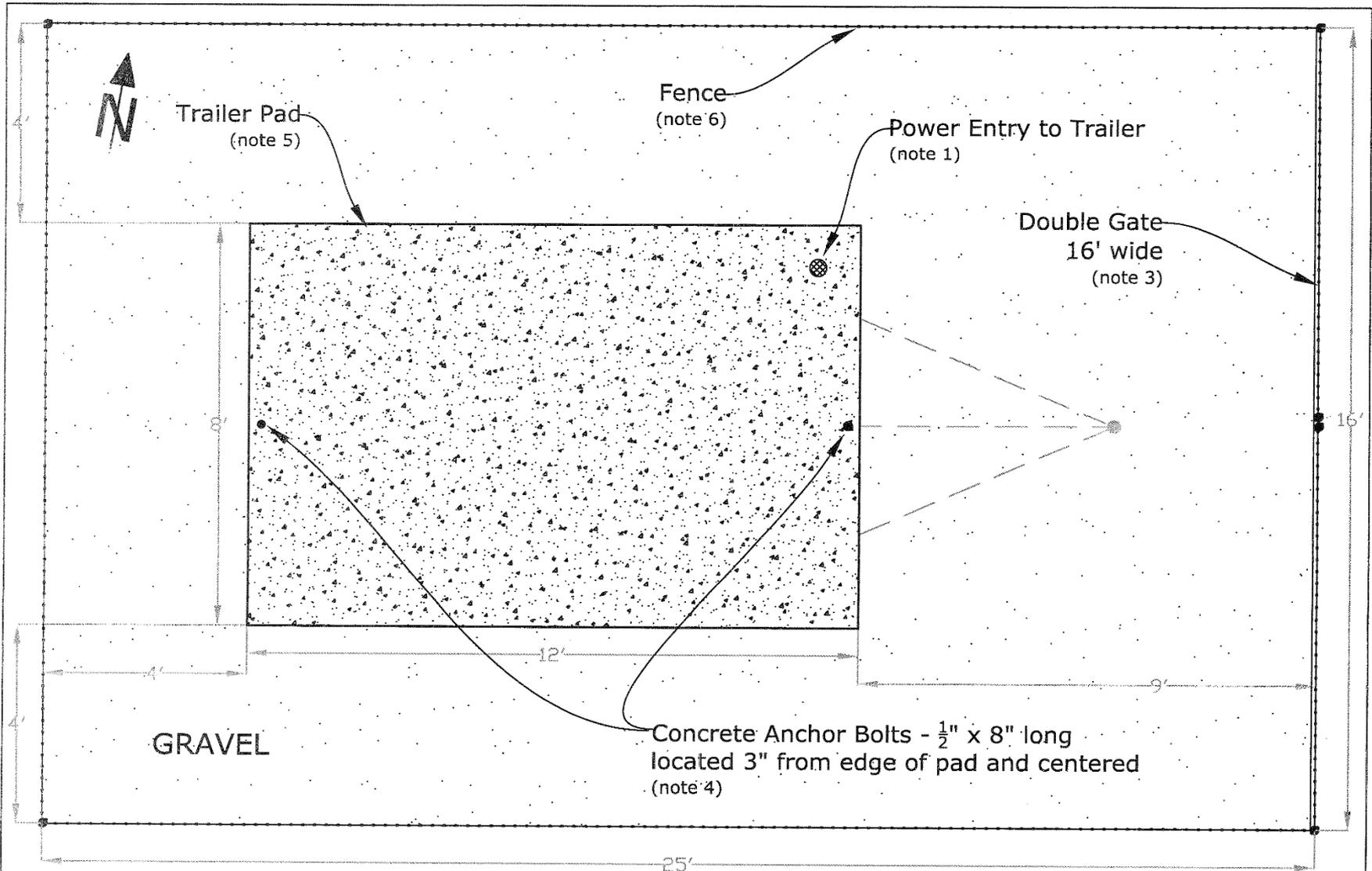
Altitude: 238.9 m (784 ft)



Obstruction Diagram

not to scale





Trailer Pad
(note 5)

Fence
(note 6)

Power Entry to Trailer
(note 1)

Double Gate
16' wide
(note 3)

GRAVEL

Concrete Anchor Bolts - $\frac{1}{2}$ " x 8" long
located 3" from edge of pad and centered
(note 4)



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EQUIPMENT TRAILER
HILL SITE

TRAILER SITE SKETCH

MONITORING

DWG BY DMS

DATE: 10.13.2016

DRAWING No.

PROP-004

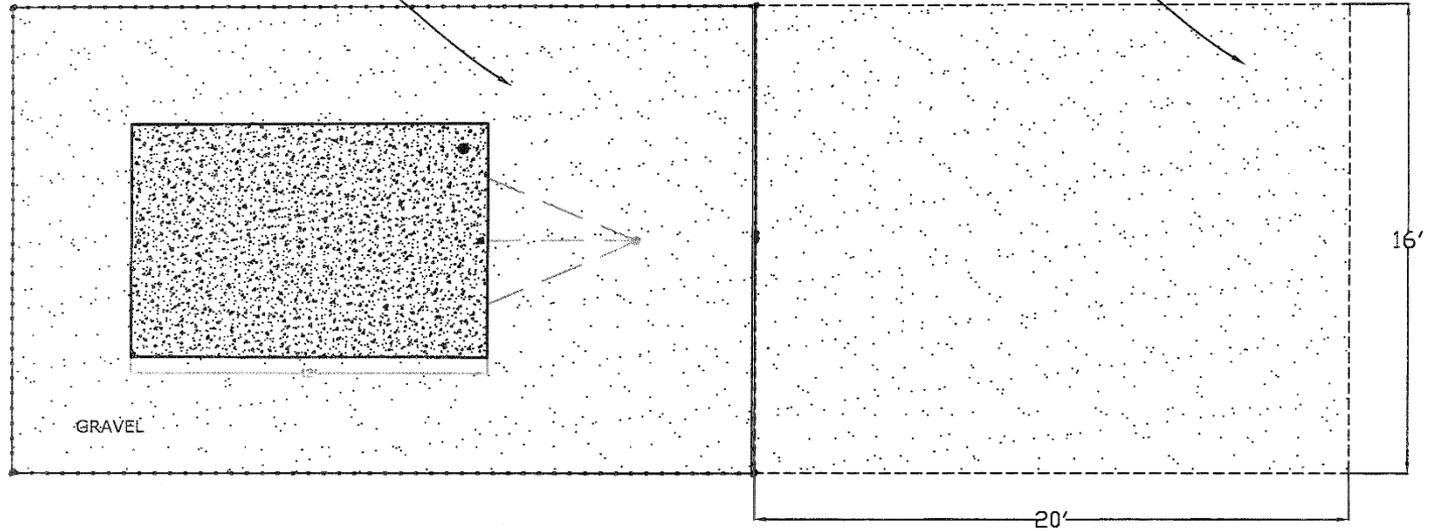
PAGE 1 OF 3



Access Drive

Fenced Trailer Enclosure

Gravel Parking Area
(note 2)



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MONITORING

DWG BY DMS

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DRAWING No.

PROP-004

PAGE 2 OF 3

NOTES - EQUIPMENT TRAILER SITE

- 1) UNDERGROUND POWER LINE FROM POLE TO TRAILER (SEE ENTRY POINT ON DWG)
- 2) 20'X 16' GRAVEL PARKING AREA NEXT TO SITE ENTRANCE
- 3) 16' WIDE DOUBLE GATE OPENS OUTWARD WITH HINGES AT CORNERS
- 4) ANCHOR BOLTS ($\frac{1}{2}$ " X 8") ARE FOR TRAILER TIE-DOWN; THEY MUST BE ANCHORED INTO THE CONCRETE TRAILER PAD
- 5) TRAILER PAD 12'X8'X6" CONCRETE; MUST SUPPORT 4000 LBS; MUST BE LEVEL ON AN APPROPRIATE BASE SLIGHTLY ABOVE GRADE
- 6) MINIMUM 6' HIGH CHAIN LINKED FENCE

 <p style="font-size: small;">SHELL ENGINEERING & ASSOCIATES, INC 2403 WEST ASH COLUMBIA, MO 65203 PHONE: (573) 445-0106 FAX: (573) 445-0137 WWW.SHELLENGR.COM</p>	<p style="font-size: large;">EQUIPMENT TRAILER HILL SITE</p>	<p style="font-size: large;">TRAILER SITE SKETCH</p>		<p style="font-size: small;">DRAWING No.</p>	
		<p style="font-size: small;">MONITORING</p>	<p style="font-size: small;">DWG BY DMS</p>		<p style="font-size: large; font-weight: bold;">PROP-004</p> <p style="font-size: small;">PAGE 3 OF 3</p>
		<p style="font-size: small;">DATE: 10.13.2016</p>			



North (top) & South (bottom)

East (top) & West (bottom)



Notes

- MET tower placement not ideal due to grade of surrounding area.
- Trees located north of proposed site location approach 10m minimum tower height for MET station.
- See Table 1-2 of the USEPA QA IV Handbook for general siting criteria

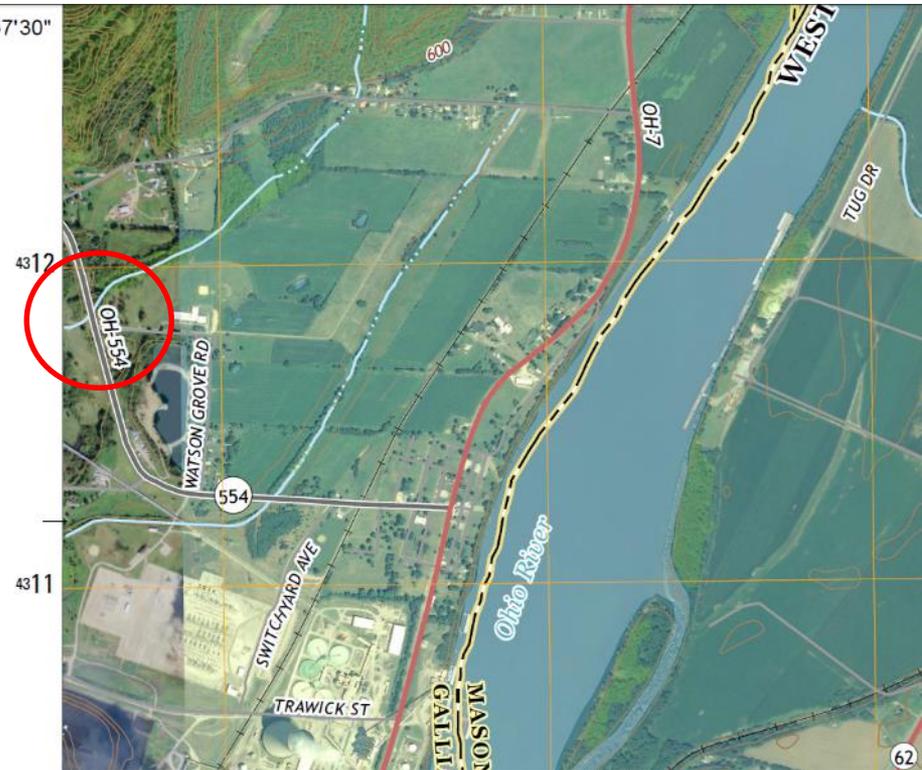
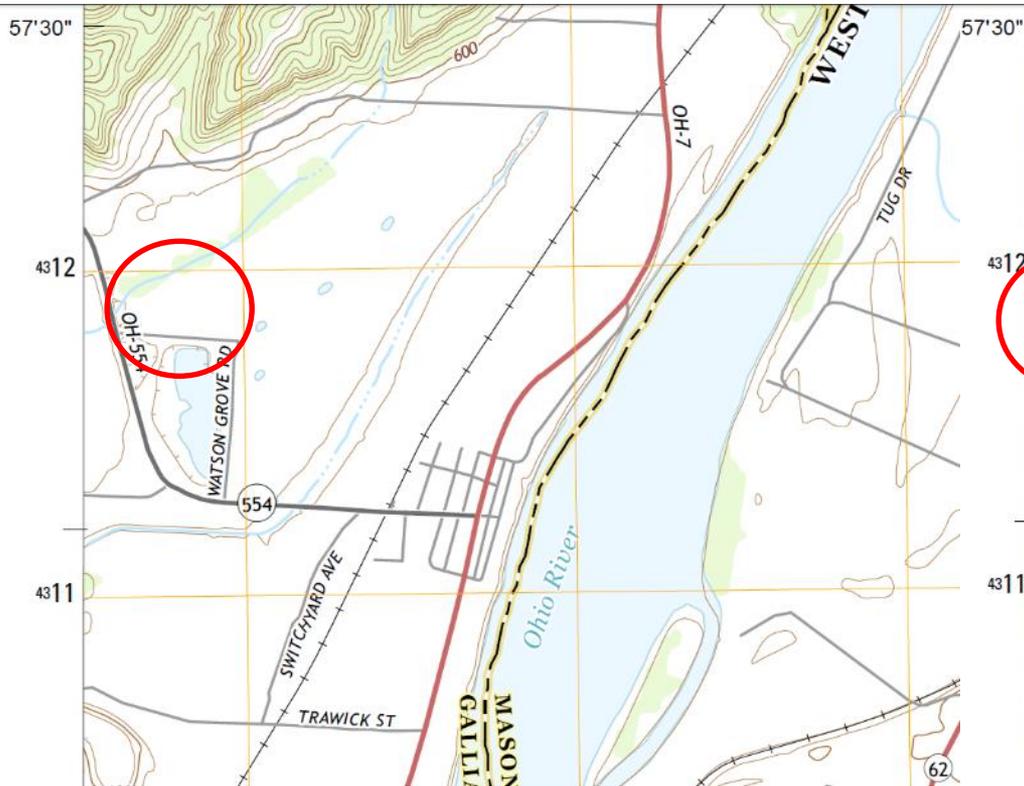
<https://www3.epa.gov/ttnamti1/files/ambient/met/Volume IV Meteorological Measurements.pdf>

Cheshire School

Latitude: 38.950192° N

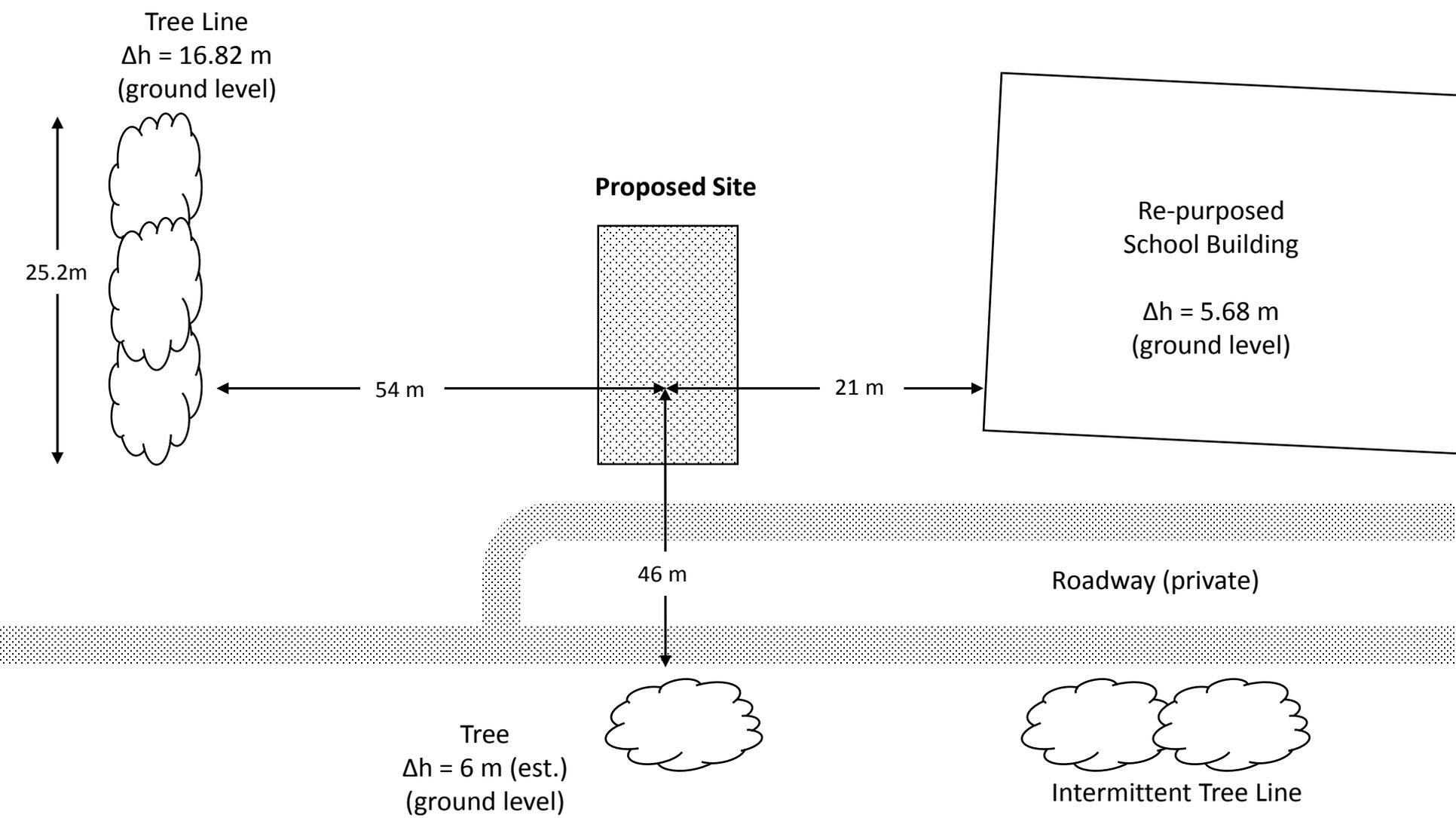
Longitude: 82.121453° W

Altitude: 175.9m (577 ft)



Obstruction Diagram

not to scale

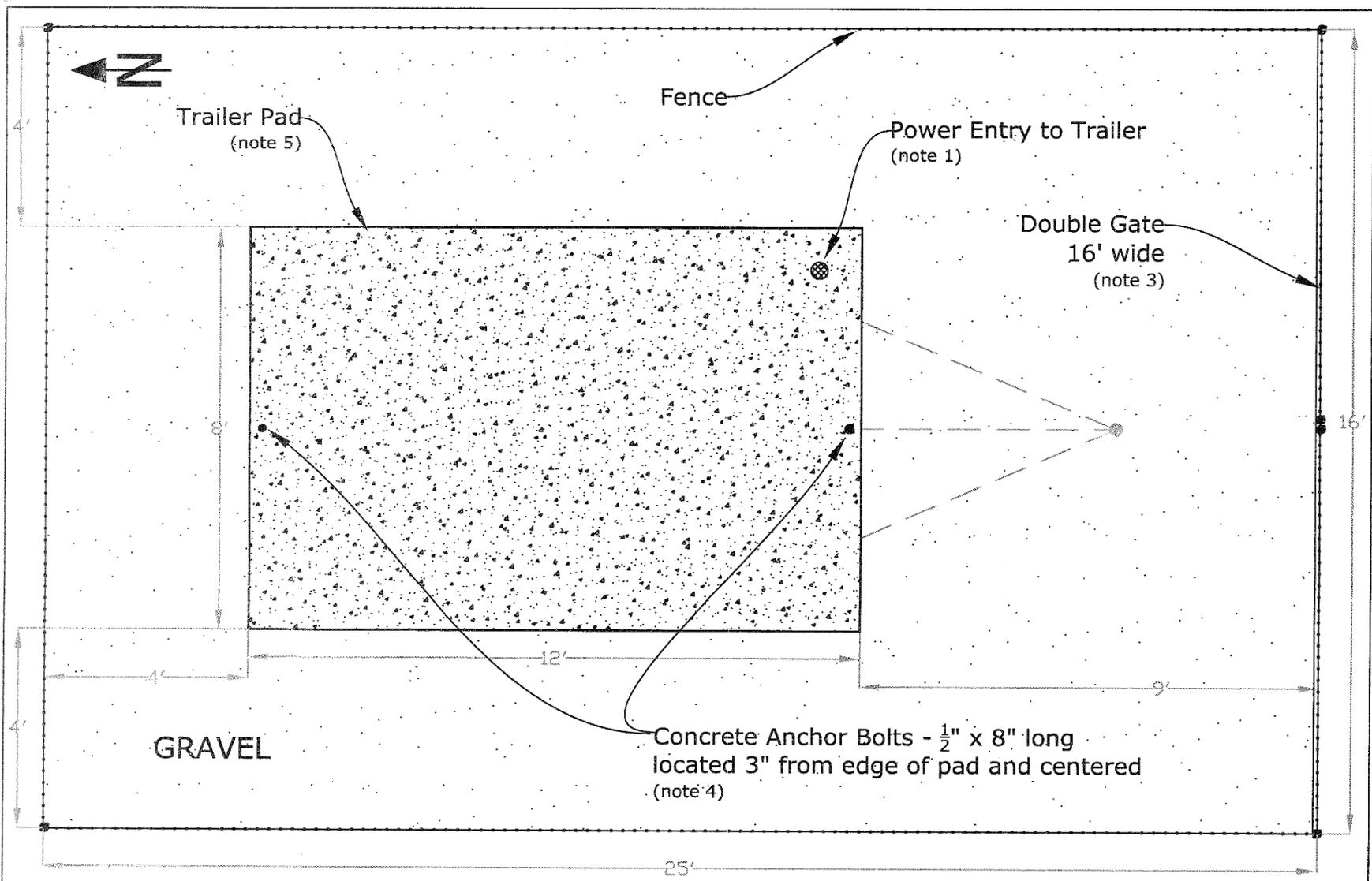




North (top) & South (bottom)

East (top) & West (bottom)



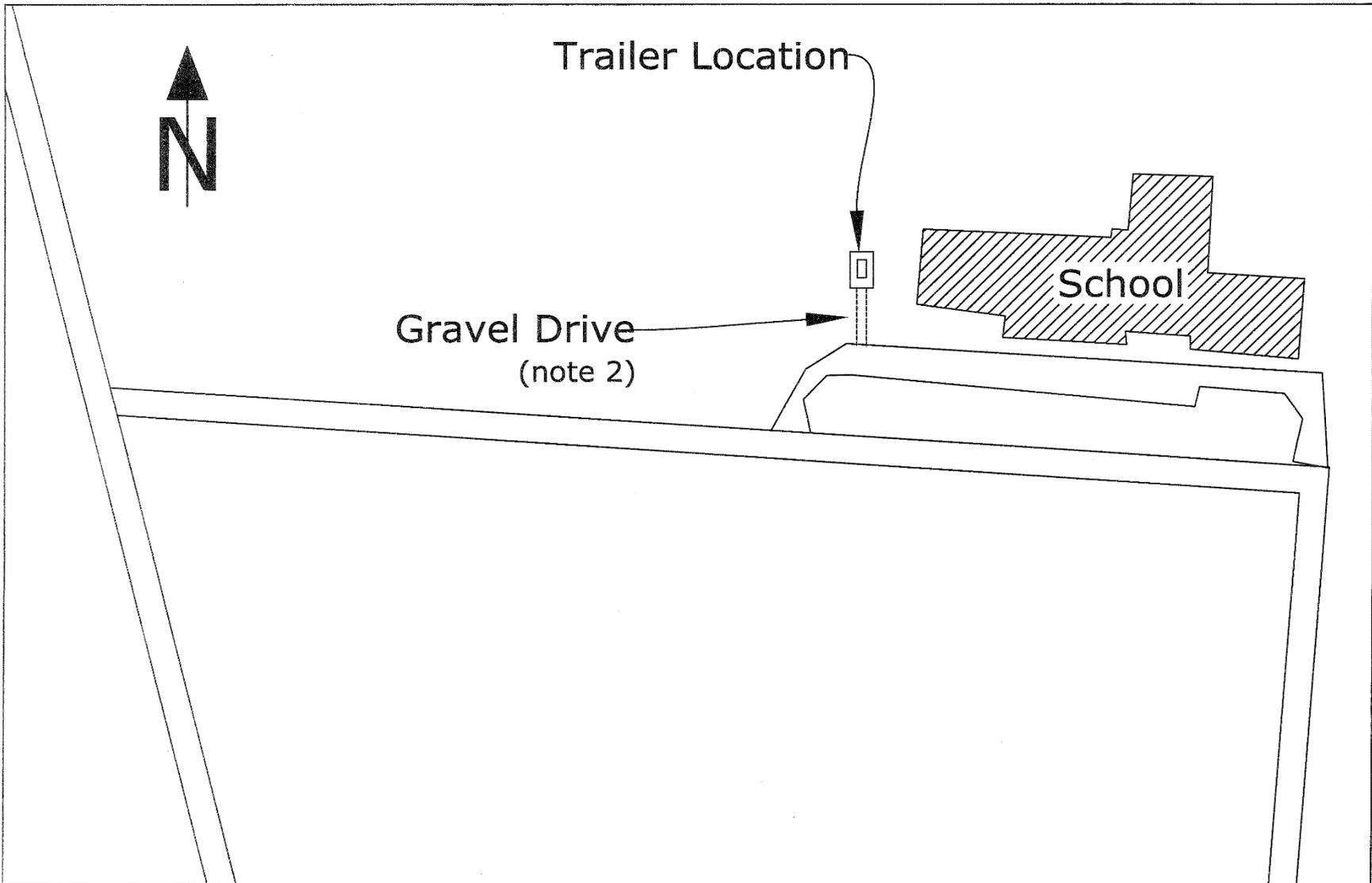



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EQUIPMENT TRAILER
 SCHOOL SITE

TRAILER SITE SKETCH
 MONITORING
 DWG BY DMS
 DATE: 10.13.2016

DRAWING No.
 PROP-003
 PAGE 1 OF 3



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			<p>MONITORING</p>	<p>DWG BY DMS</p>	<p>PROP-003 PAGE 2 OF 3</p>
			<p>DATE: 10.13.2016</p>		

NOTES - EQUIPMENT TRAILER SITE

- 1) UNDERGROUND POWER LINE FROM POLE TO TRAILER (SEE ENTRY POINT ON DWG)
- 2) DEDICATED GRAVEL DRIVEWAY TO SITE ENTRANCE
- 3) 16' WIDE DOUBLE GATE OPENS OUTWARD WITH HINGES AT CORNERS
- 4) ANCHOR BOLTS ($\frac{1}{2}$ " X 8") ARE FOR TRAILER TIE-DOWN; THEY MUST BE ANCHORED INTO THE CONCRETE TRAILER PAD
- 5) TRAILER PAD 12'X8'X6" CONCRETE; MUST SUPPORT 4000 LBS; MUST BE LEVEL ON AN APPROPRIATE BASE SLIGHTLY ABOVE GRADE
- 6) MINIMUM 6' HIGH CHAIN LINKED FENCE



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EQUIPMENT TRAILER
 SCHOOL SITE

TRAILER SITE SKETCH

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PROP-003

PAGE 3 OF 3

Notes

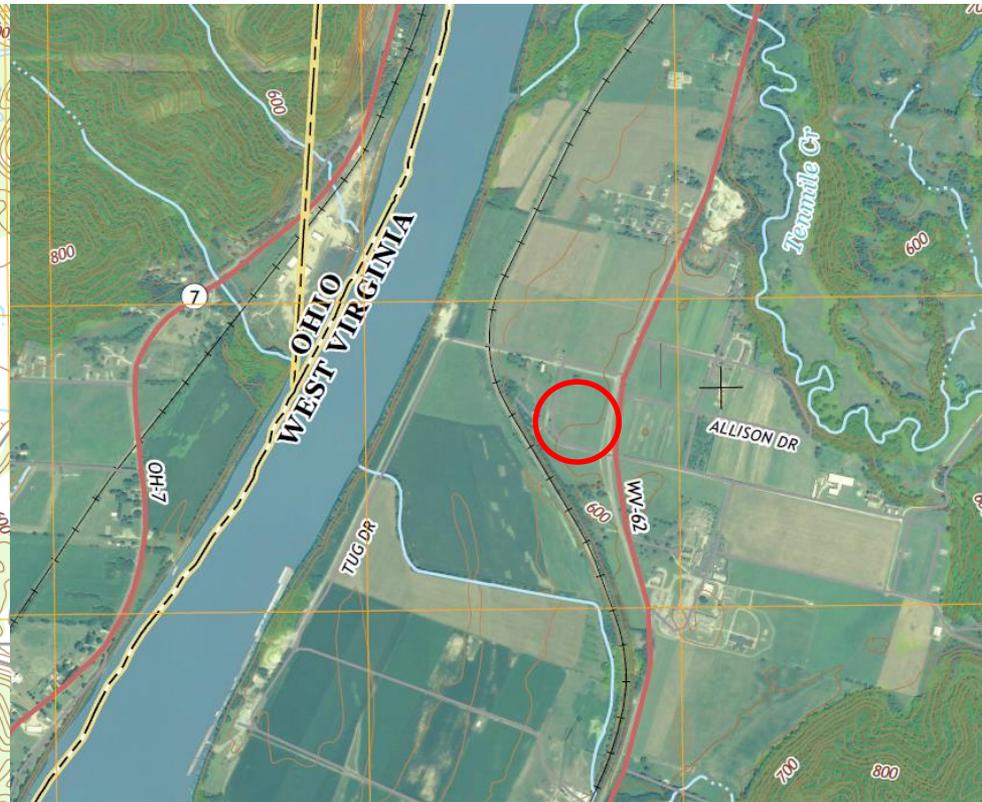
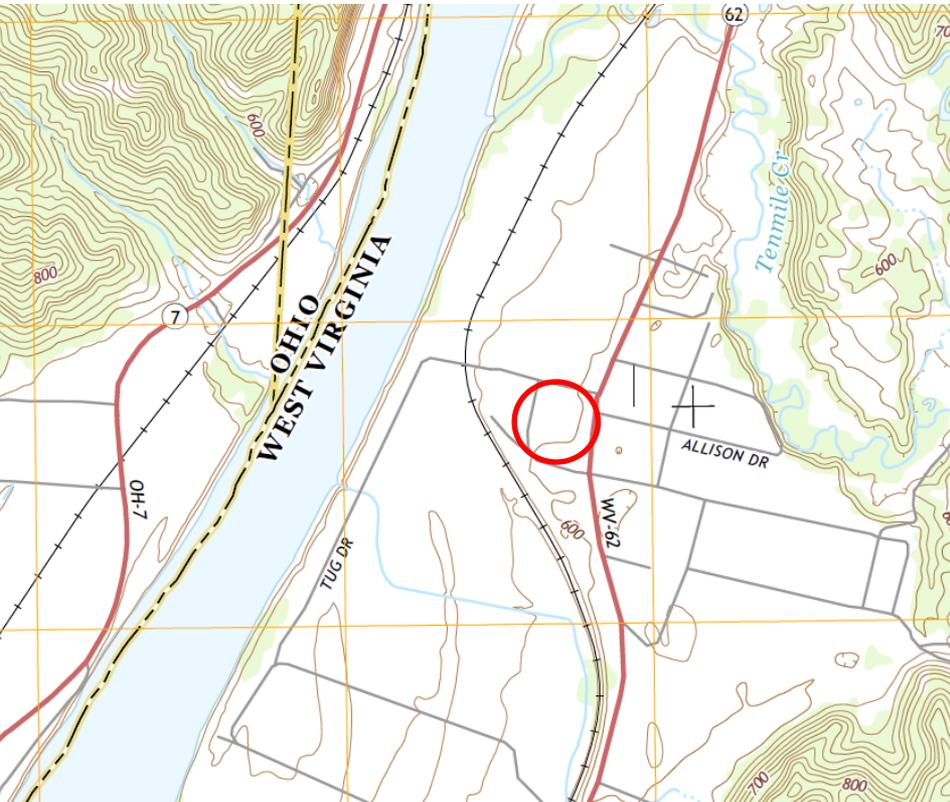
- Minimum distance from school building suggested at 11 m or greater.
- Minimum distance from western tree line suggested at 32 m or greater.
- No current action necessary.
- OH State Route 554 approximately 214m west of proposed location.
(Average Daily Traffic 1427 [ODOT 2015])

Lakin, WV Site

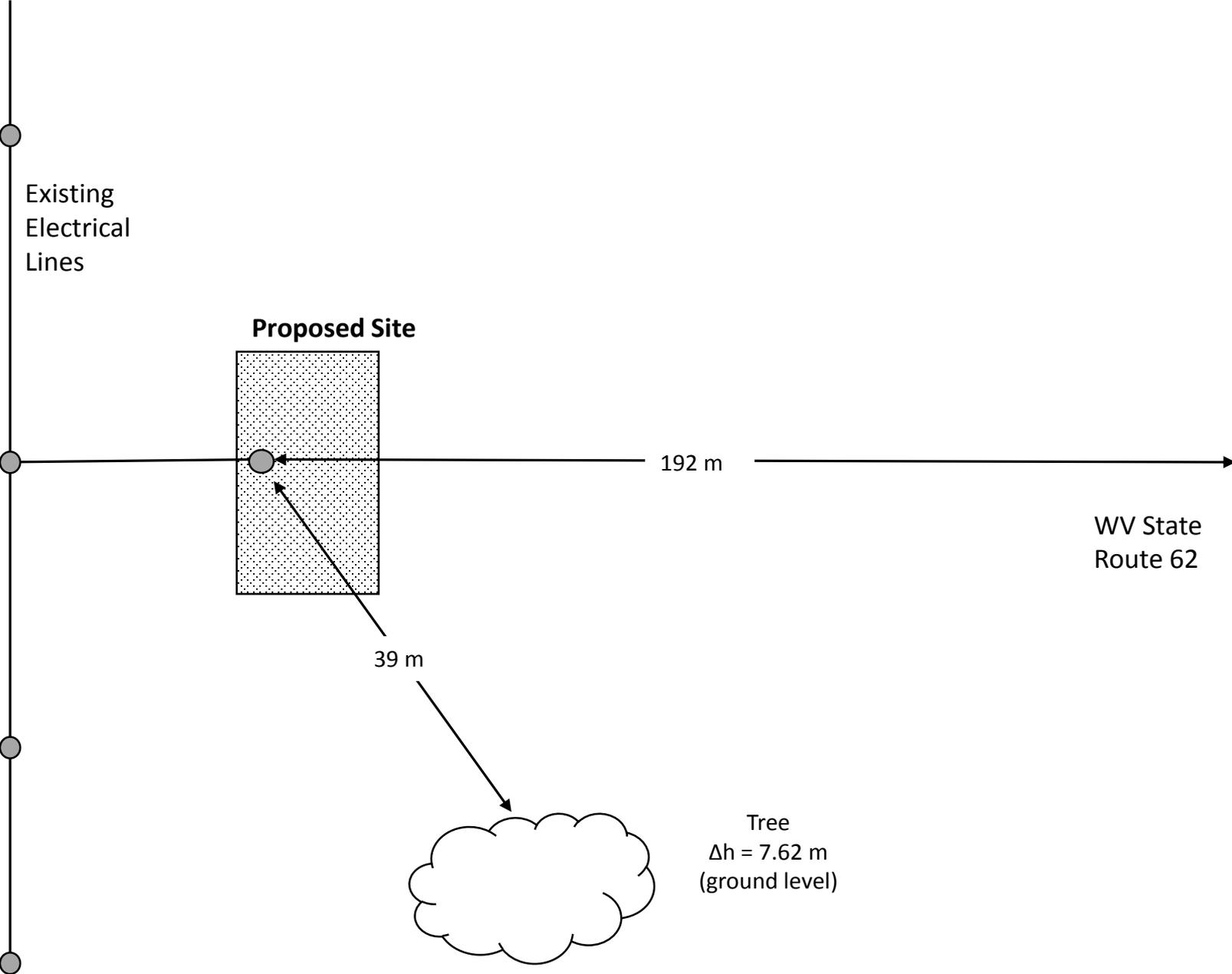
Latitude: 38.95768° N

Longitude: 82.08951° W

Altitude: 182.3 m (598 ft)



Obstruction Diagram



Existing
Electrical
Lines

Proposed Site

192 m

WV State
Route 62

39 m

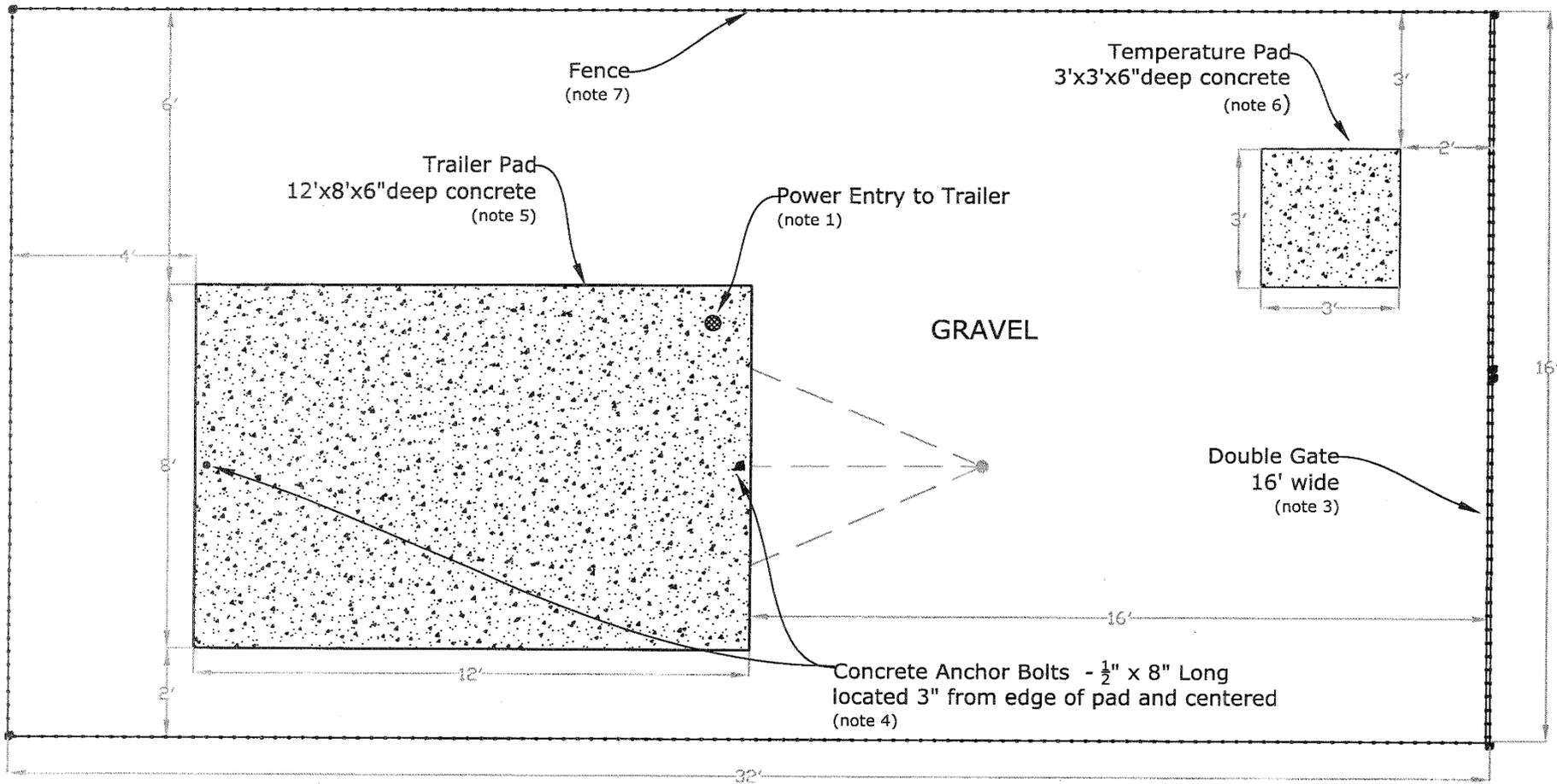
Tree
 $\Delta h = 7.62 \text{ m}$
(ground level)



North (top) & South (bottom)

East (top) & West (bottom)






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**EQUIPMENT TRAILER
LAKIN SITE**

**TRAILER SITE SKETCH
(WITH TEMPERATURE PAD)**

MONITORING

DWG BY DMS

DATE: 10.13.2016

DRAWING No.

PROP-002

PAGE 1 OF 2

NOTES - EQUIPMENT TRAILER SITE

- 1) UNDERGROUND POWER LINE FROM POLE TO TRAILER (SEE ENTRY POINT ON DWG)
- 2) NEED GRAVEL ACCESS DRIVE FROM PLANT ROAD
- 3) 16' WIDE DOUBLE GATE OPENS OUTWARD WITH HINGES AT CORNERS
- 4) ANCHOR BOLTS ($\frac{1}{2}$ " X 8") ARE FOR TRAILER TIE-DOWN; THEY MUST BE ANCHORED INTO THE CONCRETE TRAILER PAD
- 5) TRAILER PAD 12'X8'X6" CONCRETE; MUST SUPPORT 4000 LBS; MUST BE LEVEL ON AN APPROPRIATE BASE SLIGHTLY ABOVE GRADE
- 6A) TEMPERATURE PAD 3'X3'X6" CONCRETE; MUST BE LEVEL ON A GRAVEL BASE; 2" ABOVE GRADE
- 6B) THE 2-METER TEMPERATURE SENSOR WILL NEED POWER. THIS TASK CAN BE PERFORMED ON-SITE WITH SEA PERSONNEL WORKING WITH CLIENT CONTRACTOR
- 7) MINIMUM 6' HIGH CHAIN LINKED FENCE



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EQUIPMENT TRAILER
 LAKIN SITE

TRAILER SITE SKETCH
 (WITH TEMPERATURE PAD)

MONITORING

DWG BY DMS

DATE: 10.13.2016

DRAWING No.

PROP-002

PAGE 2 OF 2

Notes

- Proposed site located in open field. No obstructions present at this time.
- WV State Route 62 approximately 192m east of proposed location.
(Average Daily Traffic 3852 [WVDOT 2013])