

PERMIT COMPLIANCE FILING

Permittee:	Black Oak Wind, LLC and Getty Wind Company, LLC
Permit Type:	LWECS Site Permit
Project Location:	Stearns County
Docket No:	IP6853/WS-10-1240 and IP6866/WS-11-831
Permit Section:	Site Permit Section 5.1 – Site Plan
Date of Submission:	REVISED – February 16, 2016

Black Oak Wind, LLC (“Black Oak”) and Getty Wind Company, LLC (“Getty”) respectfully submit this filing in accordance with Section 5.1 of the Site Permits issued for the Black Oak and Getty Wind Farms:

“At least fourteen (14) days prior to the pre-construction meeting, the Permittee shall submit to the Commission:

- (a) a site plan for all turbines, roads, electrical equipment, collector and feeder lines, and other associated facilities to be constructed;
- (b) engineering drawings for site preparation, construction of the facilities; and
- (c) a plan for restoration of the site due to construction.”¹

Black Oak and Getty submit with this cover sheet:

- A site plan for all turbines, roads, electrical equipment, collector and feeder lines, and other associated facilities to be constructed;
- Engineering drawings;
- A Noise Technical Report, dated January 19, 2016 prepared by HDR Engineering, Inc.; and
- Constraints Map (setback requirements)

A plan for restoration of the site is part of Black Oak and Getty’s Stormwater Pollution Prevention Plan, which has been supplied in response to Section 7.11 of the Site Permits.

¹ The quoted language is taken from the Site Permit issued for the Getty Wind Farm. No substantive differences are present in the language of Section 5.1 of the Site Permit issued for the Black Oak Wind Farm.

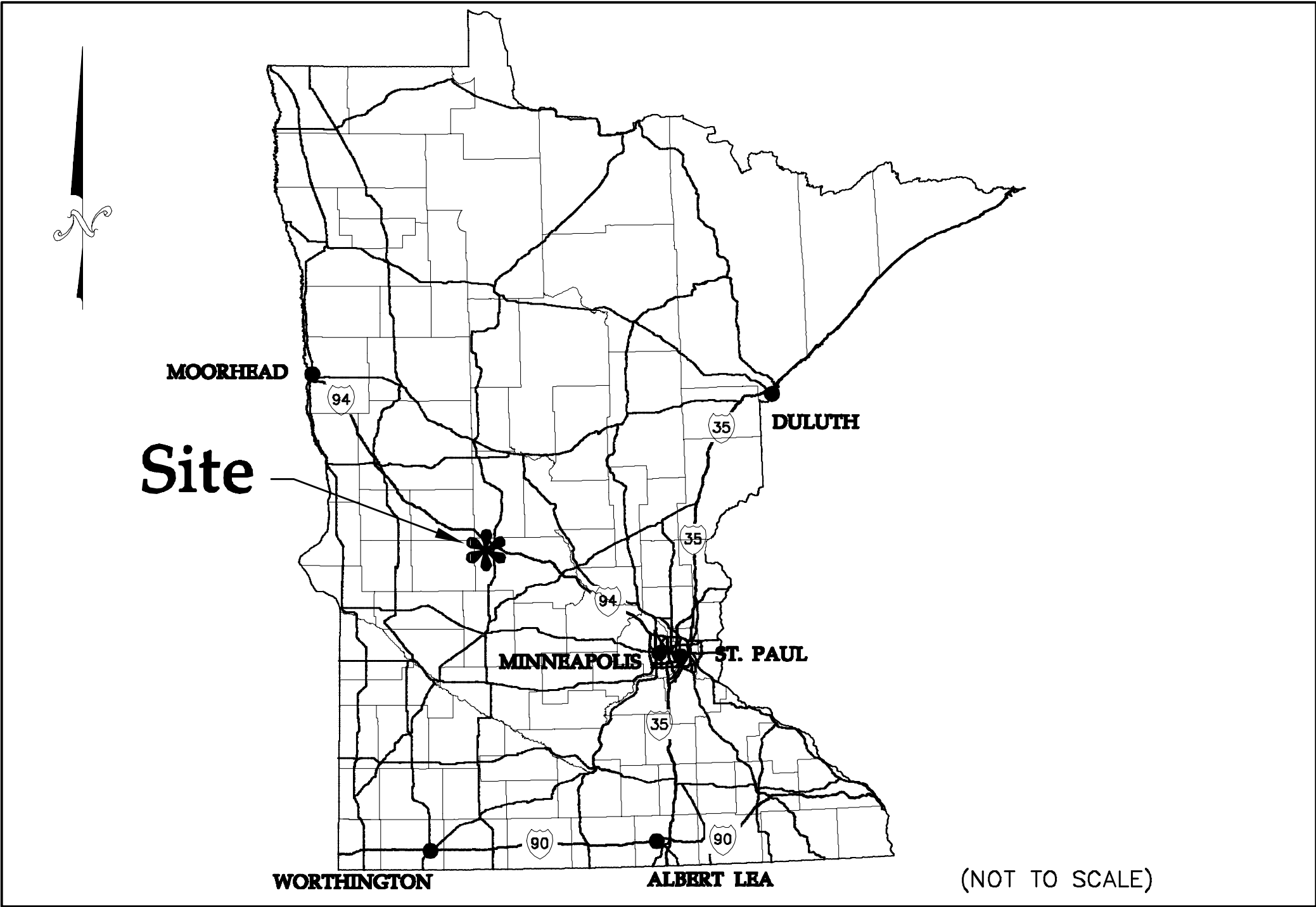
Civil Construction Plans For Permitting

for
Wind Turbine Generators,
Access Roads, Drainage and
Erosion Control

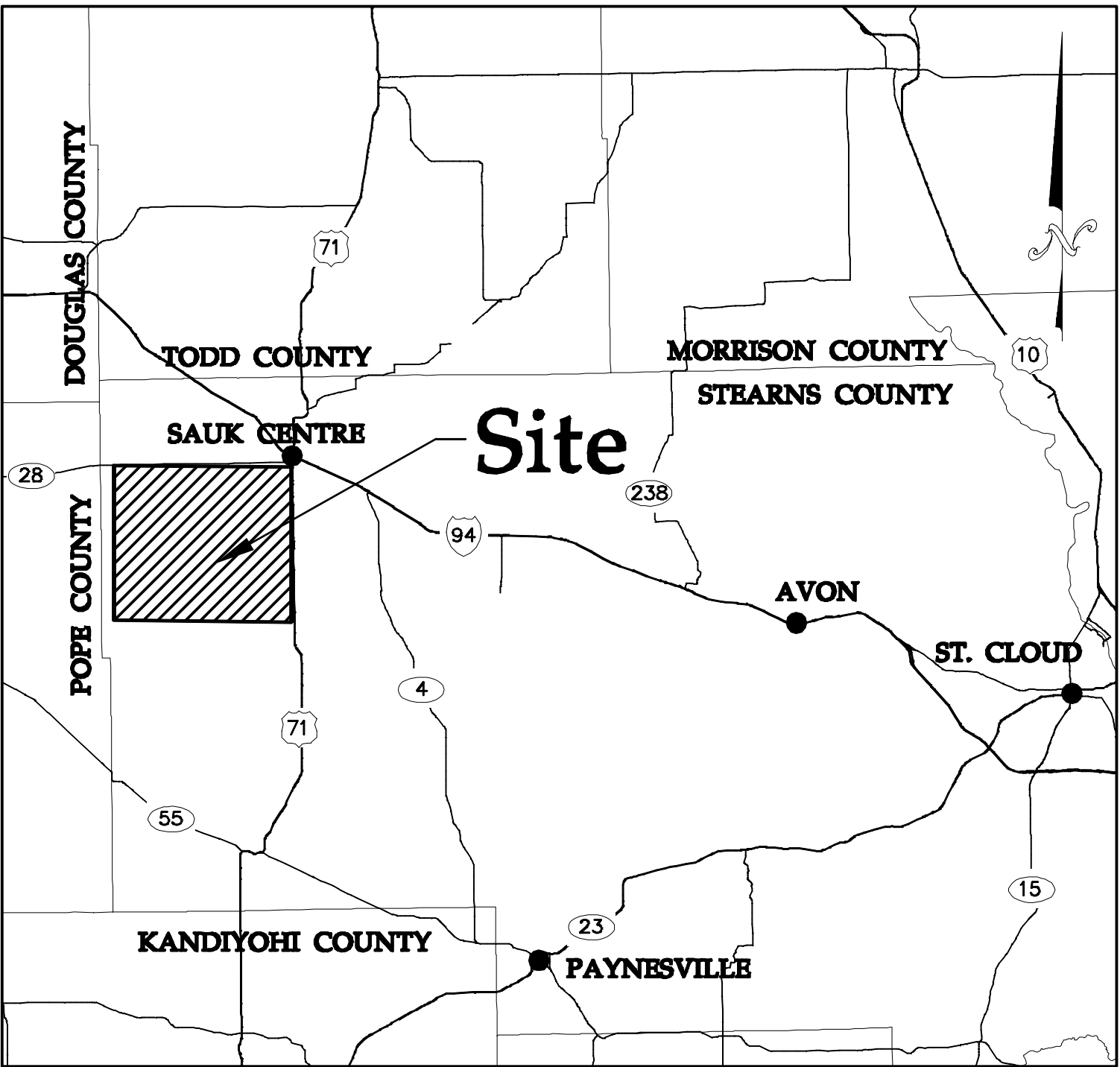
for
Black Oak/Getty Wind Farm
Stearns County, Minnesota

NO.	DATE	REVISION	SHEETS
A	5/30/2014	30% COMPLETED CIVIL CONSTRUCTION PLAN	ALL
B	8/15/2014	60% COMPLETED CIVIL CONSTRUCTION PLAN	ALL
C	8/26/2014	ISSUED FOR PERMITTING	ALL
D	9/08/2014	ISSUED FOR PERMITTING	ALL
E	9/24/2014	ISSUED FOR PERMITTING	ALL
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G	11/13/2014	ISSUED FOR PERMITTING	ALL
H	6/11/2015	ISSUED FOR PERMITTING	ALL
I	7/10/2015	ISSUED FOR PERMITTING	ALL
J	8/07/2015	ISSUED FOR PERMITTING	ALL
K	1/18/2016	ISSUED FOR PERMITTING	ALL

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State Map



Vicinity Map

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of Minnesota.
Robert Stanley Copouls
Robert Stanley Copouls
Date: 1/18/16 License No. 47876

Designed: KLM
Checked: RSC
Drawn: JFH
Record Drawing by/date:

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K	1/18/16	ISSUED FOR PERMITTING

Prepared for:

488 8th Avenue, HQ11,
San Diego, CA 92101

NOTE:
THESE PLANS HAVE BEEN ISSUED FOR PERMITTING ONLY AND ARE NOT INTENDED FOR CONSTRUCTION. ADDITIONAL CONSTRUCTION LEVEL DETAIL NEEDS TO BE ADDED TO THE PLANS PRIOR TO CONSTRUCTION UTILIZING THE PLANS.

NO CHANGE FROM THE PREVIOUSLY APPROVED PLANS
ADDED TO THE PREVIOUSLY APPROVED PLANS
REMOVED FROM THE PREVIOUSLY APPROVED PLANS

Black Oak/Getty Wind Farm
Stearns County, Minnesota

Cover

ISSUED FOR PERMITTING
Turbine Array:
BOGY-39xVH10-80mHH_20140718_v1
Date: 1/18/16
Sheet: 1 OF 43

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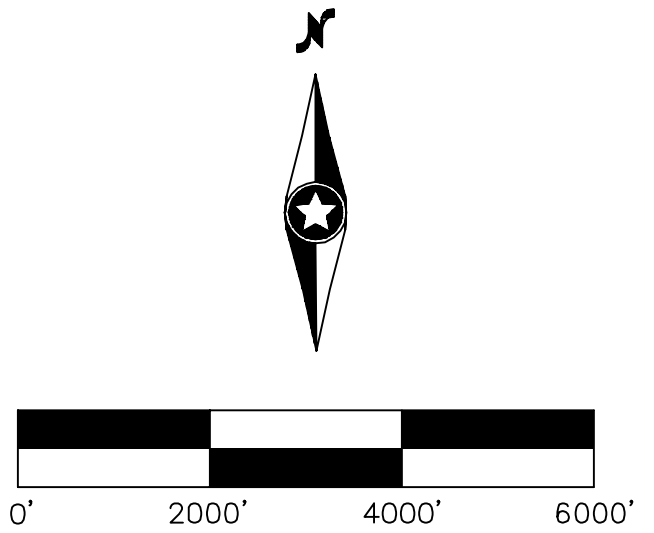
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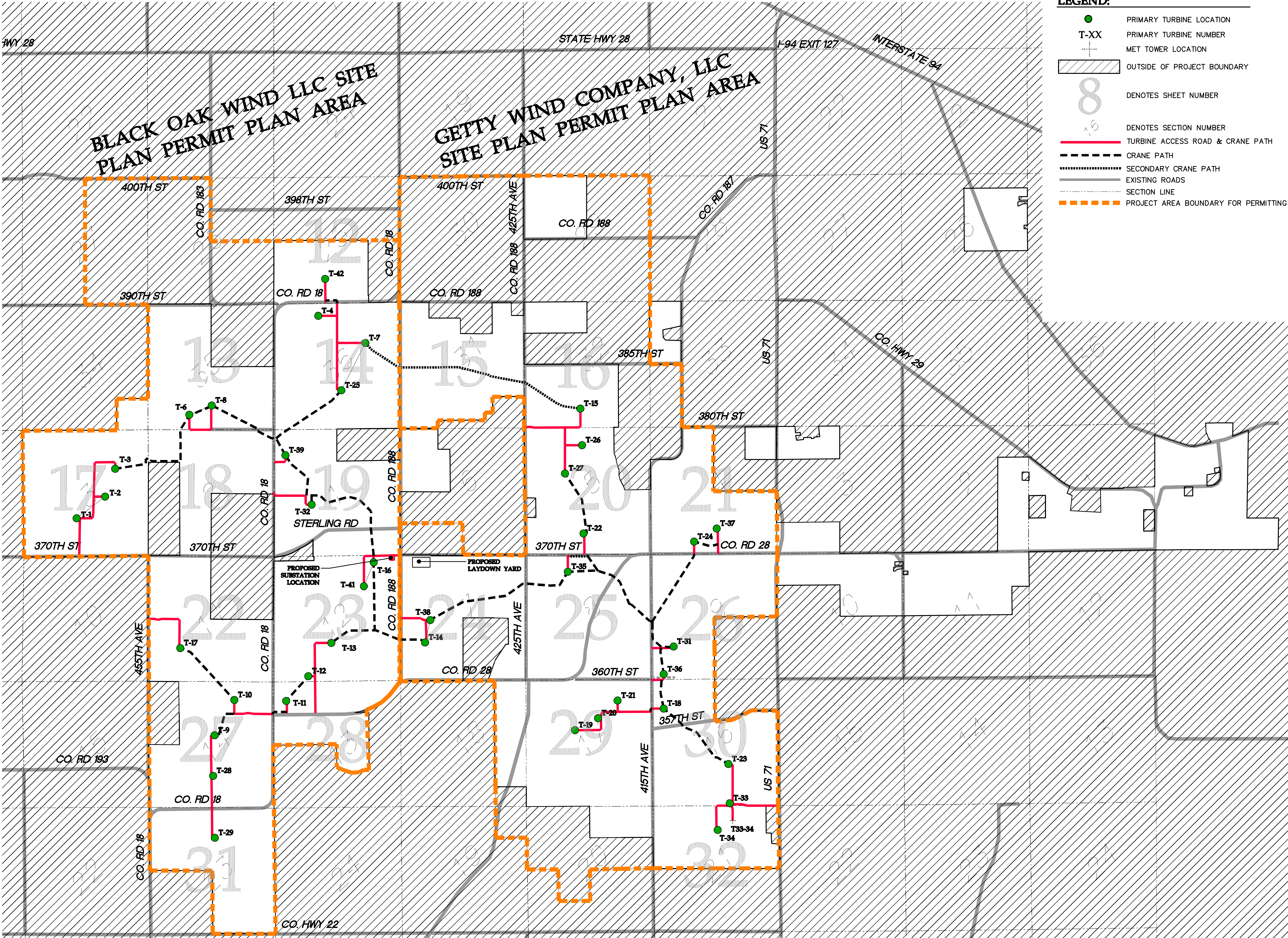
Black Oak/Getty Wind Farm

Stearns County, Minnesota

Overall

ISSUED FOR PERMITTING

Turbine Array:
~~BOGY_39xV110-80mFH_20140718_r1~~
Date: 1/18/16
Sheet: 2 OF 43



TURBINE COORDINATES						
TURBINE NO.	LATITUDE	LONGITUDE	EXISTING ELEVATION	PEDESTAL HEIGHT ABOVE EXISTING GROUND	APPROX. FINISHED GRADE PEDESTAL	DISTANCE (LF) TURBINE TO ROAD*
T-1	45.662192	-95.068721	1349.27	1.0	1350.27	-
T-2	45.664692	-95.064046	1363.40	1.0	1364.40	-
T-3	45.667886	-95.062382	1353.91	1.0	1354.91	-
T-4	45.685488	-95.028957	1317.38	1.0	1318.38	-
T-6	45.674109	-95.050182	1344.58	2.0	1346.58	-
T-7	45.682354	-95.021202	1331.70	2.0	1333.70	-
T-8	45.675188	-95.046480	1352.92	2.0	1354.92	-
T-9	45.637148	-95.046073	1363.31	1.0	1364.31	-
T-10	45.641216	-95.042835	1363.94	1.0	1364.94	-
T-11	45.641104	-95.034312	1350.94	1.0	1351.94	-
T-12	45.643952	-95.030662	1344.75	1.0	1345.75	-
T-13	45.647791	-95.026884	1342.22	1.0	1343.22	-
T-14	45.647817	-95.011481	1337.75	1.0	1338.75	-
T-15	45.674739	-94.985876	1297.88	3.0	1300.88	-
T-16	45.657070	-95.019897	1337.57	1.0	1338.57	-
T-17	45.647208	-95.051710	1349.11	2.0	1351.11	-
T-18	45.640145	-94.972284	1316.63	1.0	1317.63	-
T-19	45.637671	-94.986862	1333.24	1.0	1334.24	-
T-20	45.639054	-94.983067	1320.04	1.0	1321.04	120'
T-21	45.641076	-94.979844	1318.73	1.0	1319.73	-
T-22	45.660350	-94.985414	1334.40**	1.0	1335.40	-
T-23	45.633722	-94.961666	1295.67	2.0	1297.67	-
T-24	45.659374	-94.967222	1302.78	1.0	1303.78	-
T-25	45.676898	-95.025177	1325.58	2.0	1327.58	-
T-26	45.670529	-94.985603	1344.03	1.0	1345.03	-
T-27	45.667268	-94.988416	1330.29	1.0	1331.29	-
T-28	45.632479	-95.046354	1375.15	1.0	1376.15	60'
T-29	45.625326	-95.046062	1366.87	1.0	1367.87	-
T-31	45.647286	-94.970631	1320.20	1.0	1321.20	-
T-32	45.663733	-95.030086	1322.13**	1.0	1323.13	-
T-33	45.629207	-94.961455	1303.73	1.0	1304.73	100'
T-34	45.626130	-94.963440	1309.73	1.0	1310.73	-
T-35	45.655945	-94.987985	1339.74	1.0	1340.74	-
T-36	45.644106	-94.972264	1327.91	1.0	1328.91	-
T-37	45.660883	-94.963511	1284.73	1.0	1285.73	-
T-38	45.650408	-95.010620	1332.45	1.0	1333.45	-
T-39	45.669423	-95.034374	1346.44	1.0	1347.44	-
T-41	45.654317	-95.021524	1335.38**	1.0	1336.38	-
T-42	45.689754	-95.027810	1318.35**	1.0	1319.35	-
T33-34 (MET)	45.627205	-94.960979	1313.89	1.0	1314.89	-

Coordinates System - NAD83 datum, Latitude-Longitude; decimal degrees


* DISTANCES ARE LENGTHS OF STUB ROAD DRIVEWAYS FOR DRIVE-BY TURBINES

** TURBINE ELEVATION BASED ON AERIAL TOPOGRAPHY (LiDAR), ACTUAL ELEVATION MAY VARY. ADJUST FINISHED GRADE ELEVATION AS NECESSARY TO BE CONSISTENT WITH FOUNDATION PLANS.

APPROXIMATE FINISHED GRADE OF PEDESTAL IS BASED ON BEING ABOVE 100-YEAR FLOOD DEPTH. REFER TO FOUNDATION PLANS FOR FINISHED GRADE REQUIREMENTS. FINISHED GRADE IS NOT BASED ON A DETAILED GRADING PLAN.

CULVERT SCHEDULE						
CULVERT NO.	LOCATION		SIZE	EXTENSION	TEMPORARY	NOTES
	ACCESS ROAD/CRANE PATH	PUBLIC ROAD				
1	ACCESS ROAD OO	COUNTY RD 18	24	X		
2	ACCESS ROAD A	COUNTY RD 18	24	X		
3	ACCESS ROAD E	380TH ST	18		X	
4	CRANE PATH SOUTH OF T-25	-	48		X	
5	ALT CRANE PATH WEST OF T-15	-	48		X	
6	ACCESS ROAD M	425TH AVE	18			REPLACE EXISTING
7	ACCESS ROAD G	370TH ST	18			
8	ACCESS ROAD L	COUNTY RD 18	18			
9	ACCESS ROAD E	-	18			
9	CRANE PATH EAST OF T-32	-	48		X	
10	CRANE PATH NORTH OF T-22	-	36		X	
11	ACCESS ROAD S	455TH AVE	18			
12	ACCESS ROAD S	400' EAST OF 455TH AVE	60		X	REPLACE EXISTING
13	ROAD T-NORTH	-	30			NEAR SUBSTATION
14	CRANE PATH 300' WEST OF ROAD V AND CO RD 188	-	36		X	
15	ACCESS ROAD V	COUNTY RD 188	18			
16	NORTHWEST ENTRANCE TO LAYDOWN YARD	370TH ST	15			
17	NORTHEAST ENTRANCE TO LAYDOWN YARD	370TH ST	15			
19	ACCESS ROAD X	370TH ST	15			
20	ACCESS ROAD P	370TH ST	18			
21	ACCESS ROAD Z	415TH AVE	18			
22	ACCESS ROAD Q	COUNTY RD 28	18			
23	ACCESS ROAD R	COUNTY RD 28	18			
24	ACCESS ROAD BB	COUNTY RD 18	18	X	X	
25	ACCESS ROAD NN	COUNTY RD 18	18			
26	ACCESS ROAD GG, 700' EAST OF T-19	-	48			
27	ACCESS ROAD GG	415TH AVE	18			
28	ACCESS ROAD JJ	415TH AVE	18			
29	CRANE PATH WEST OF T-23	-	48		X	
30	ACCESS ROAD LL NORTH OF T-33	-	2-66			
31	ACCESS ROAD LL EAST OF T-33	-	2-66			
32	ACCESS ROAD LL	US HWY 71	30			
33	O&M ACCESS EAST	CO HWY 22	24			REPLACE EXISTING
34	O&M ACCESS EAST	-	15			

FENCE/GATE CROSSING SCHEDULE					
CROSSING NO.	TYPE	PROPOSED IMPROVEMENT	LENGTH (LF)	OWNER	LOCATION
1001	FENCE	CRANE	170	MCANDREWS FARM FAM LTD PARTNERSHIP	NE1/4 SEC 8 TWP 125 RAN 34
1002	FENCE	TRANSMISSION LINE	50	ANTHONY GOERDT	NW1/4 SEC 11 TWP 32 SEC 11



Westwood Professional Services, Inc.
7699 Anagram Drive
Eden Prairie, MN 55344
PHONE 952-937-5150
FAX 952-937-9822
TOLL FREE 1-888-937-5150
www.westwoodps.com

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Robert Stanley Copouls
Robert Stanley Copouls
Date: 1/18/16 License No. 47876

Designed:	KLM
Checked:	RSC
Drawn:	IJH
Record Drawing by/date:	

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Prepared for:



Black Oak
Getty Wind

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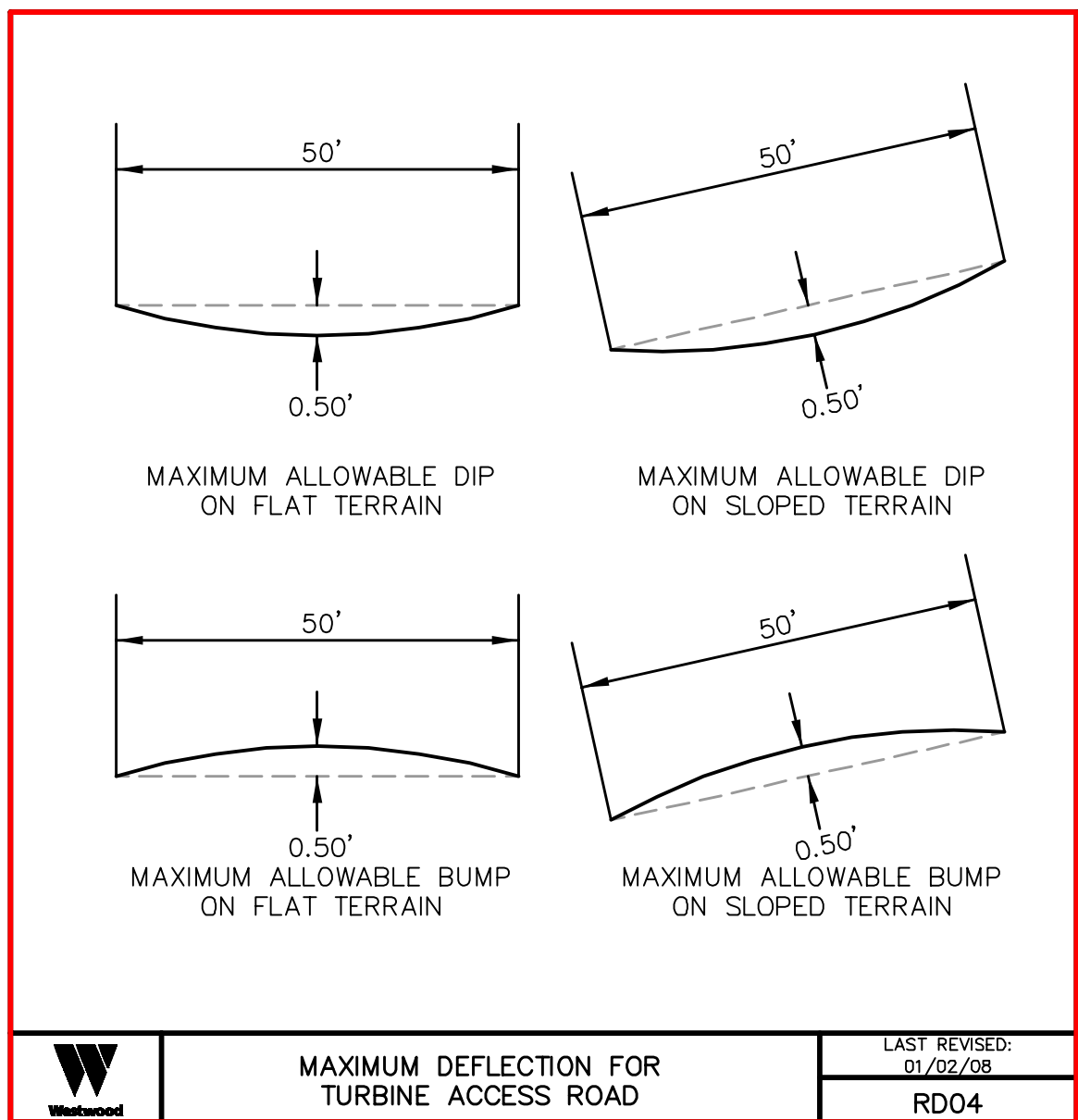
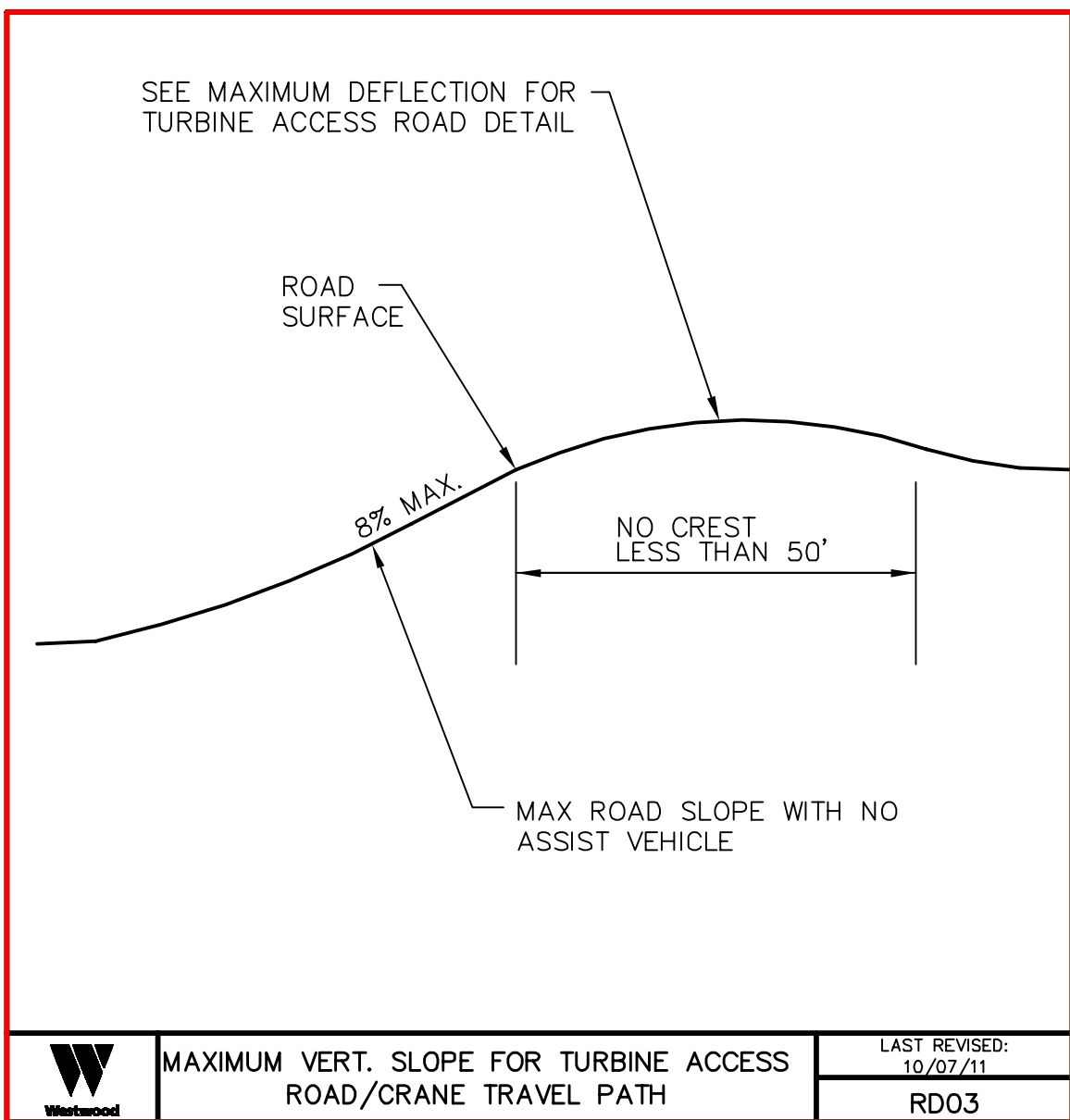
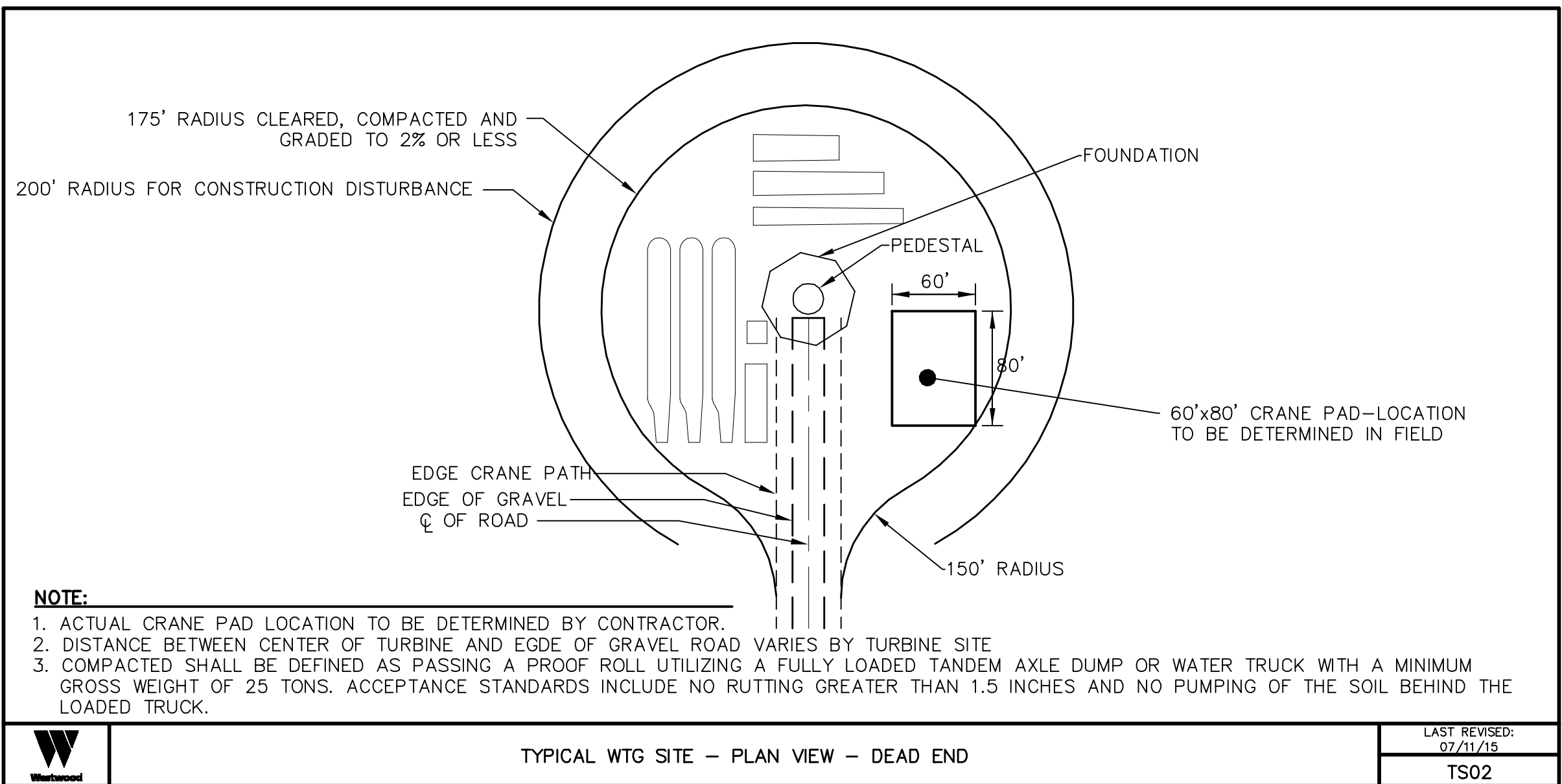
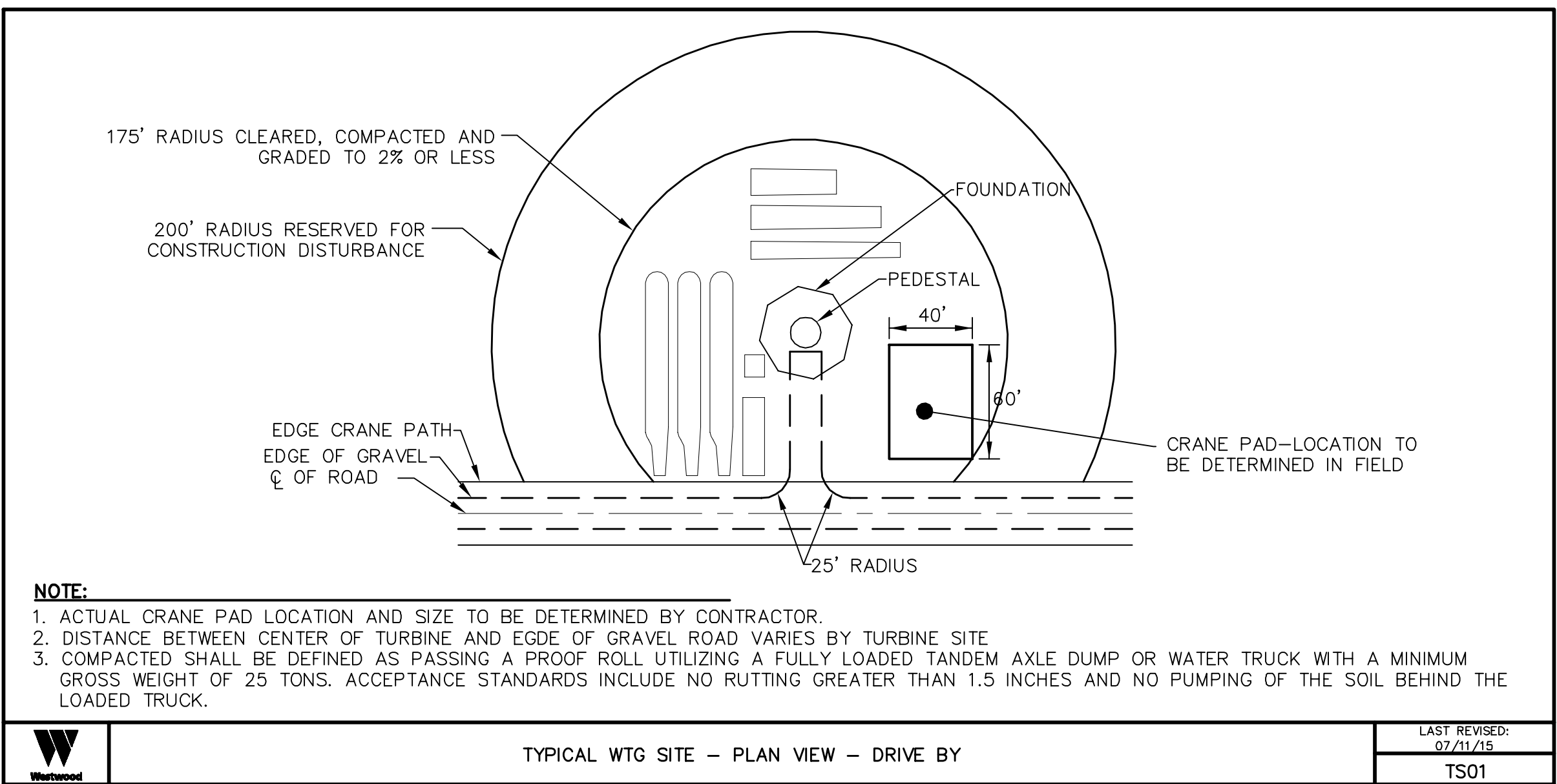
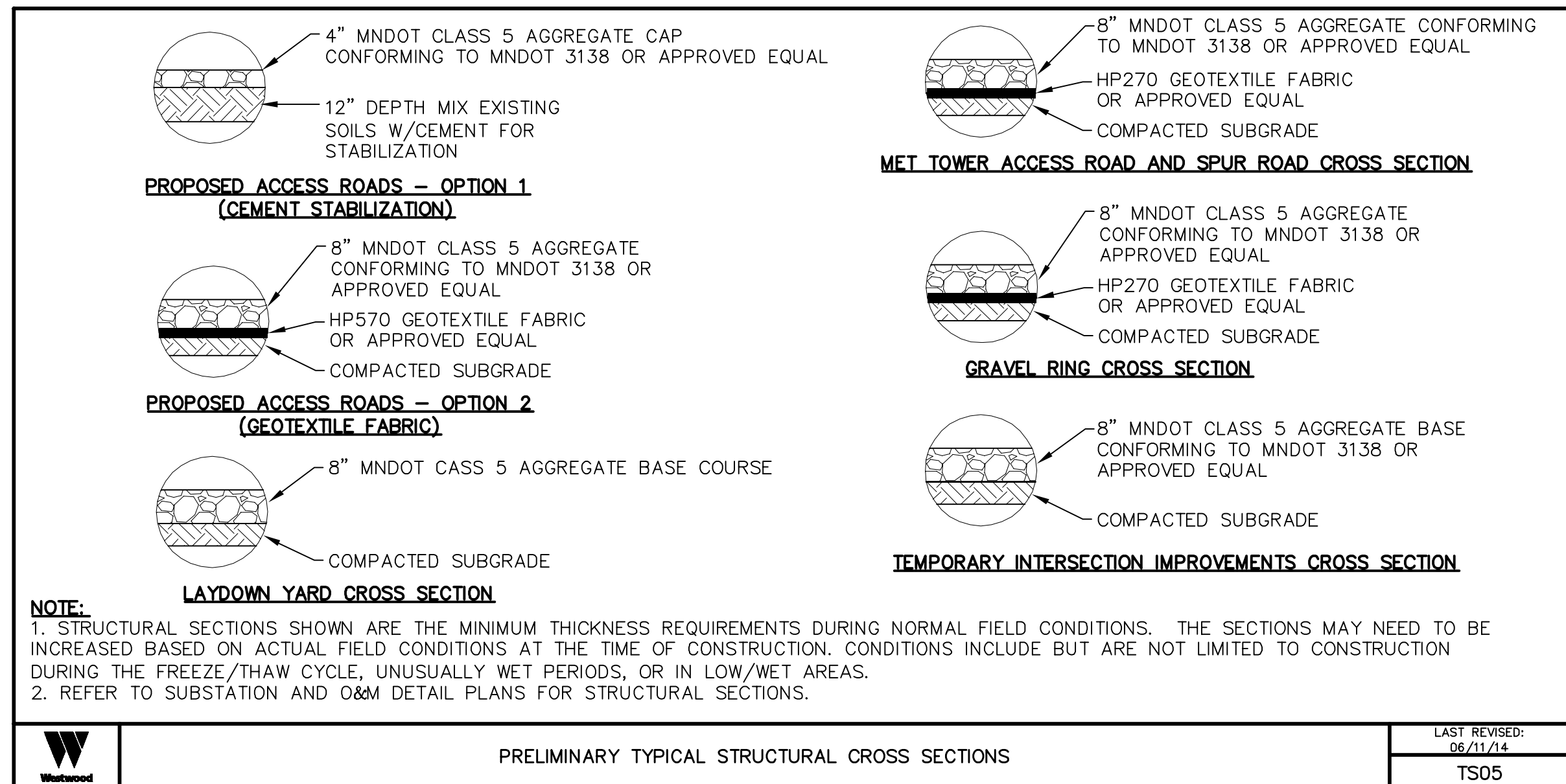
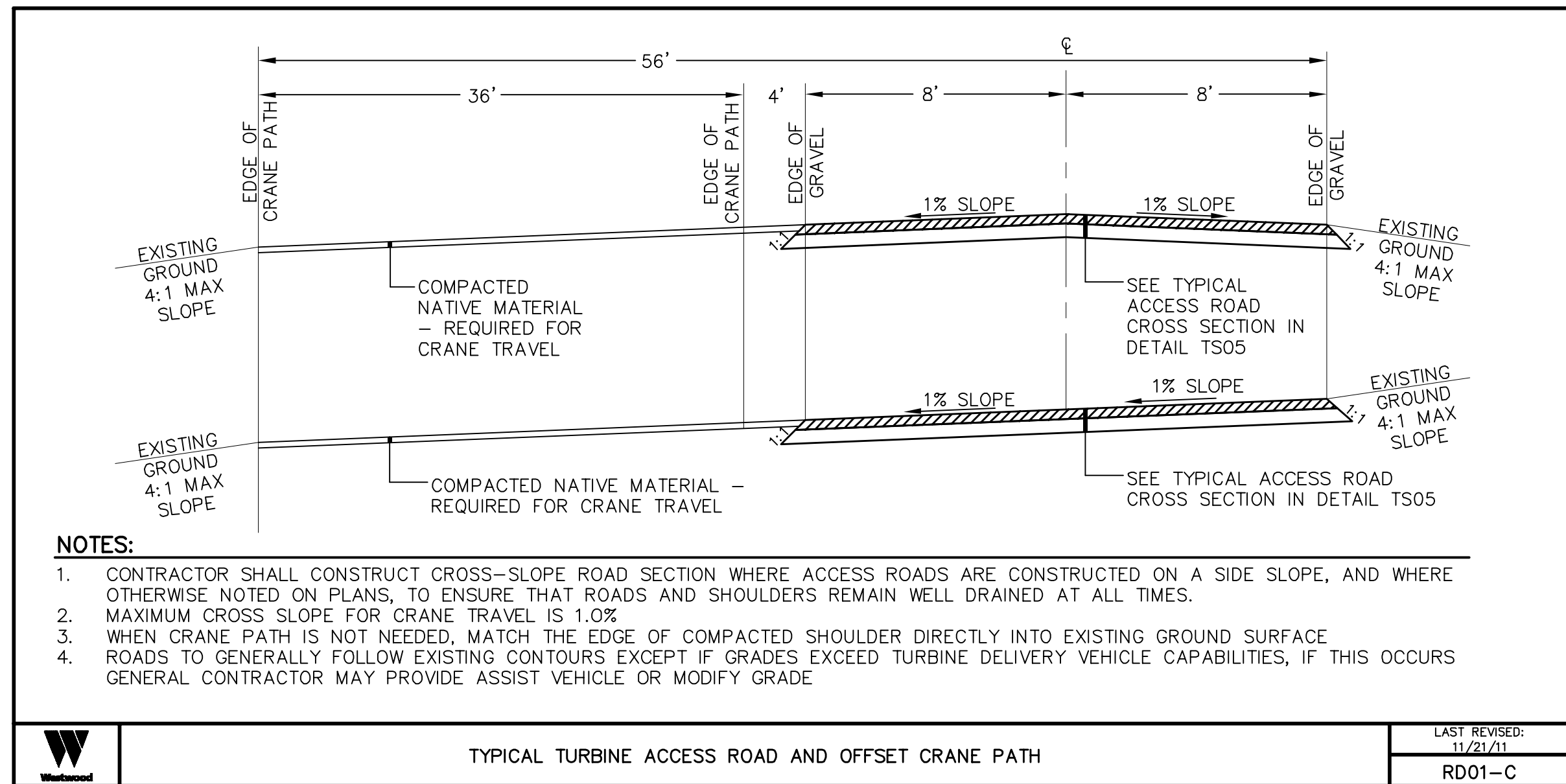
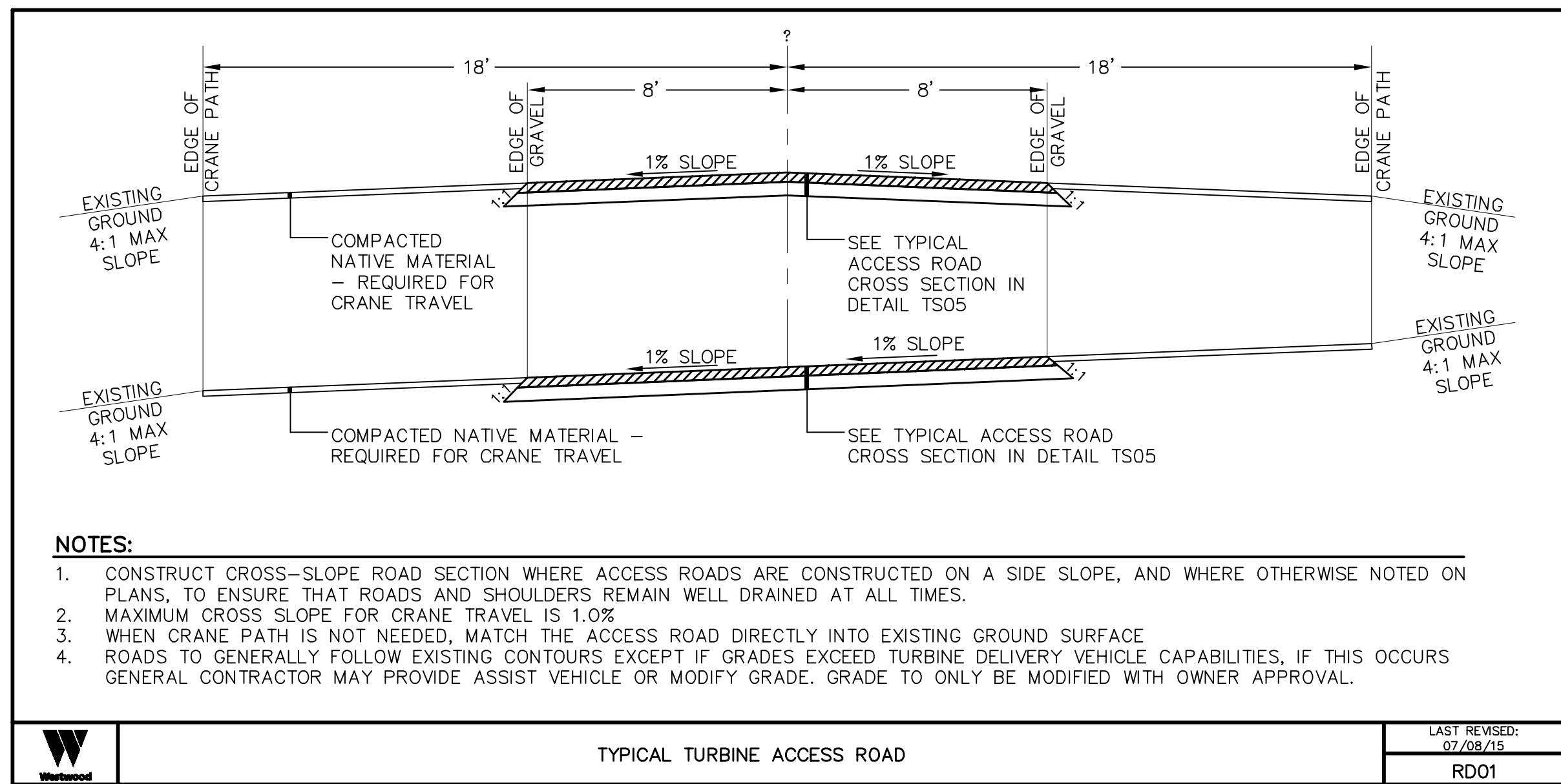
Black Oak/Getty Wind Farm

Stearns County, Minnesota

Turbine Coordinates and Culvert Schedule

ISSUED FOR PERMITTING

Turbine Array:
BOGY_99xVH10-80mHH_20140718_v1
Date: 1/18/16
Sheet: 3 OF 43



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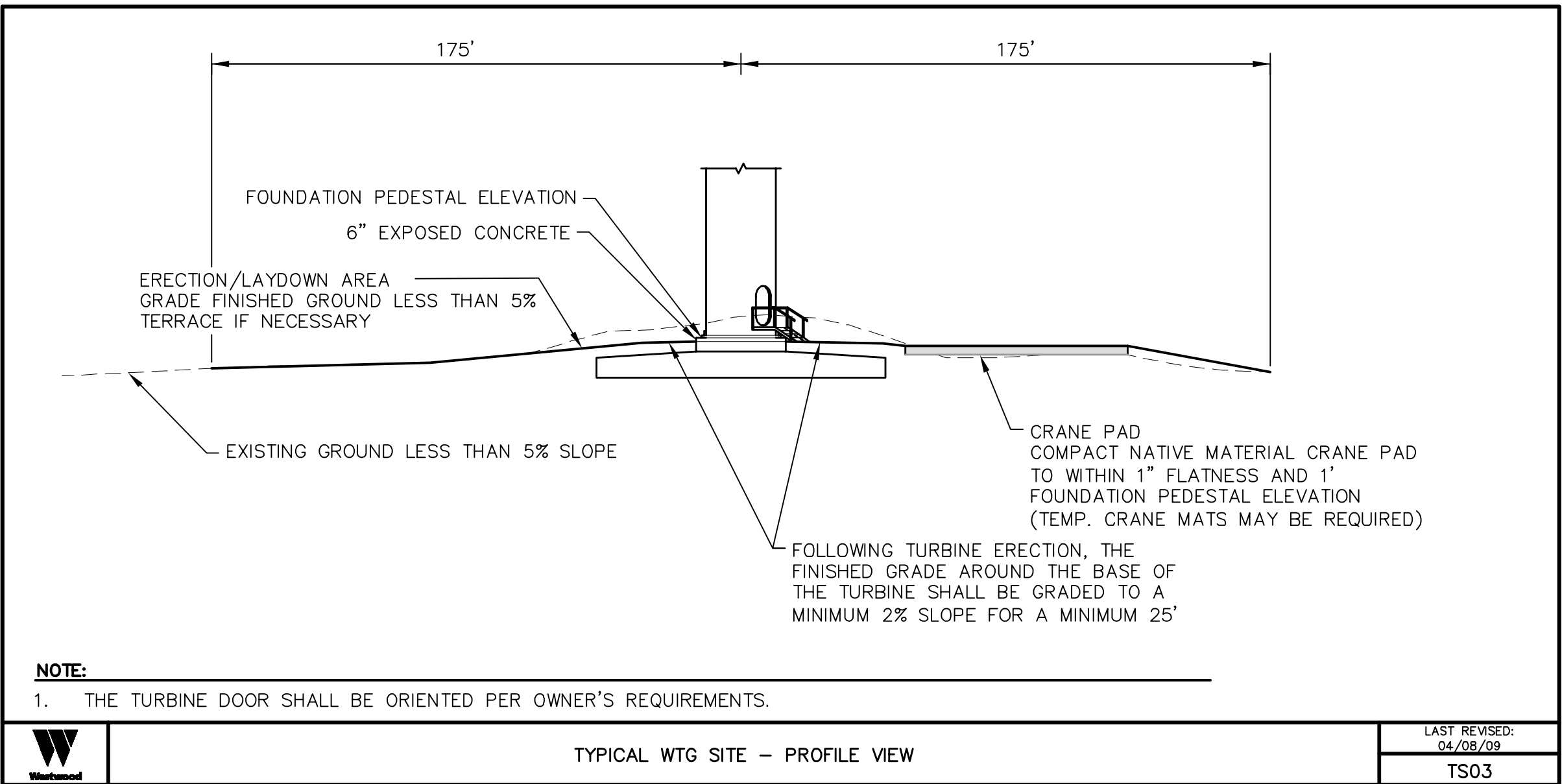
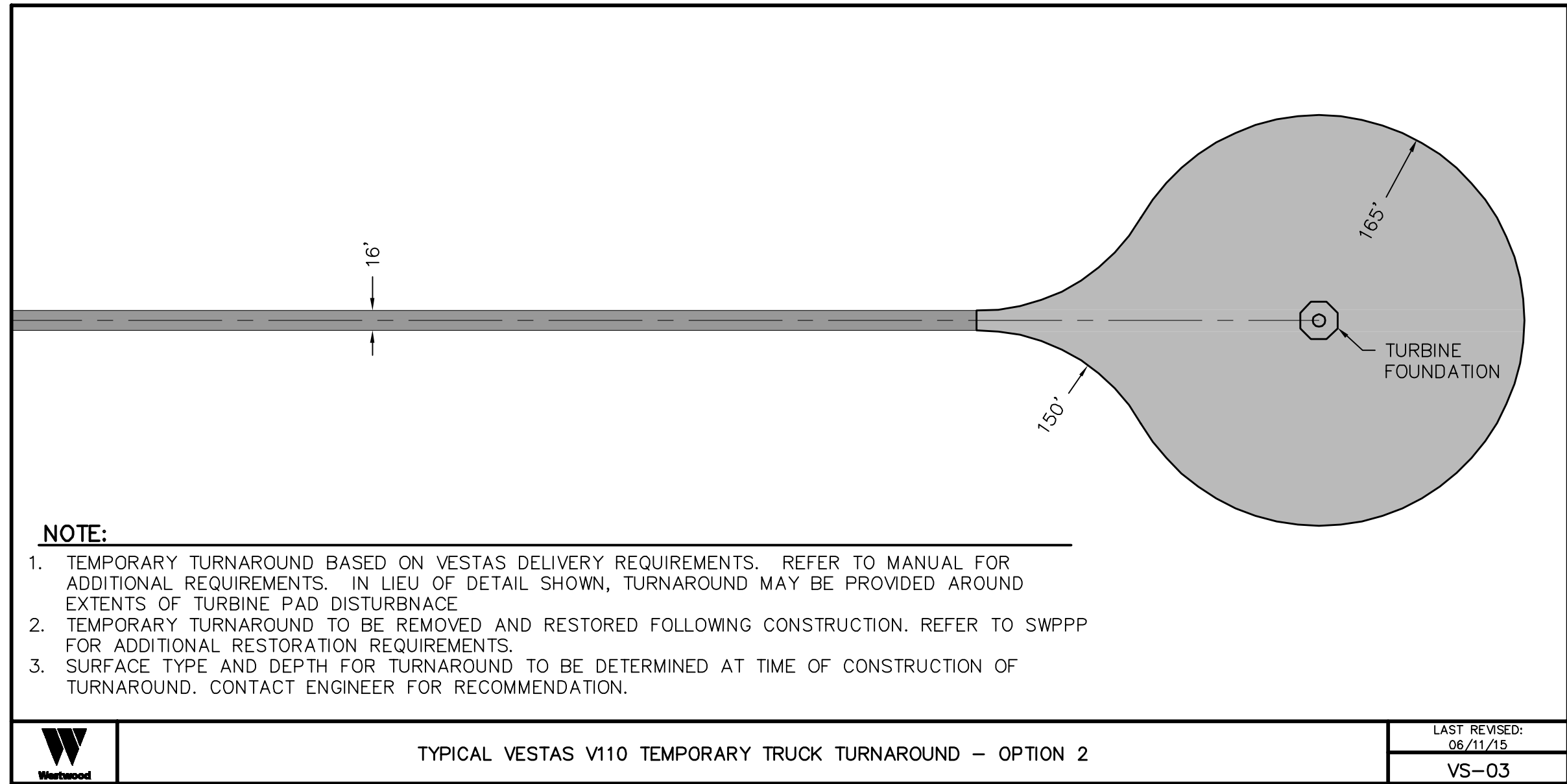
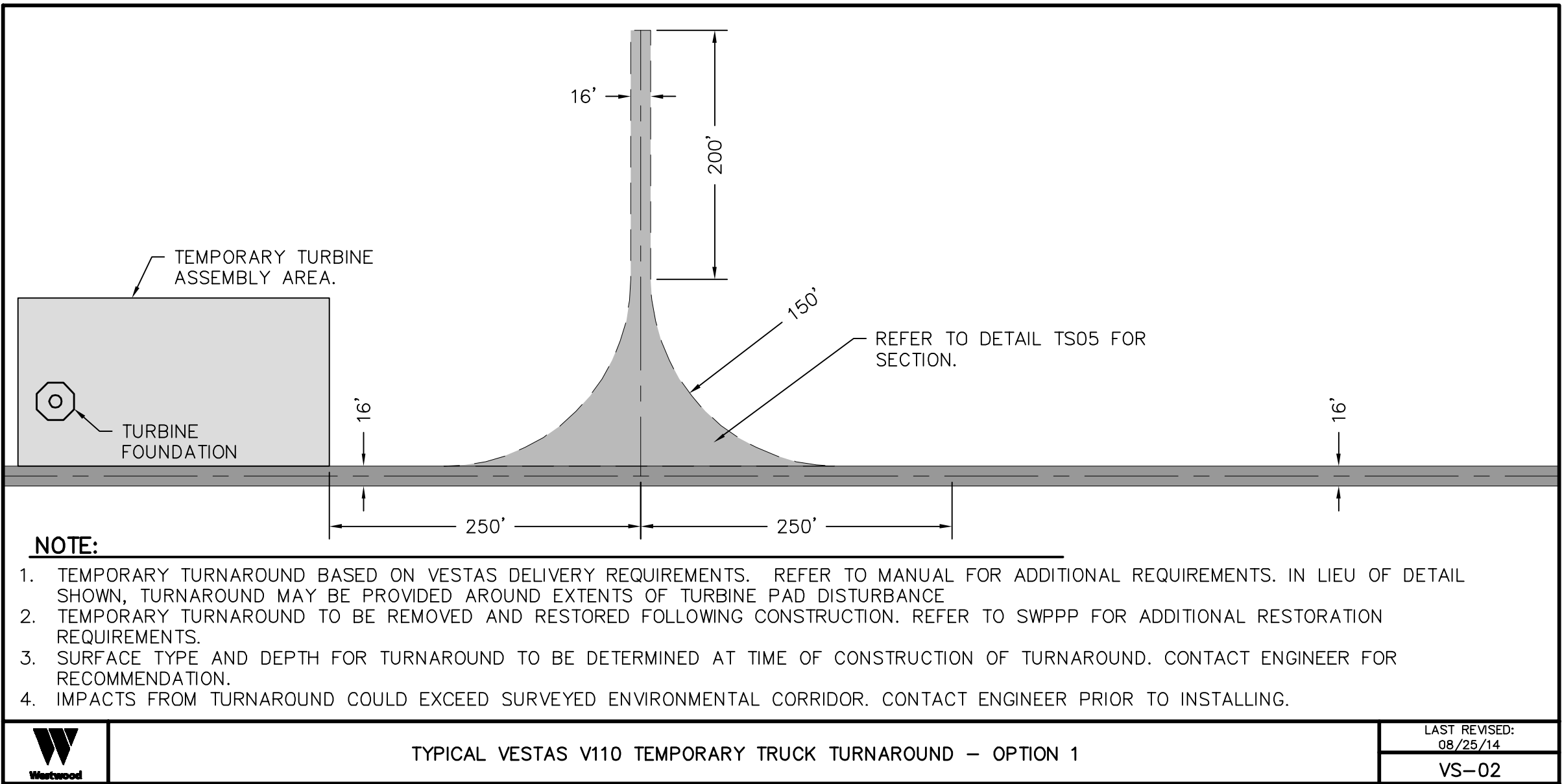
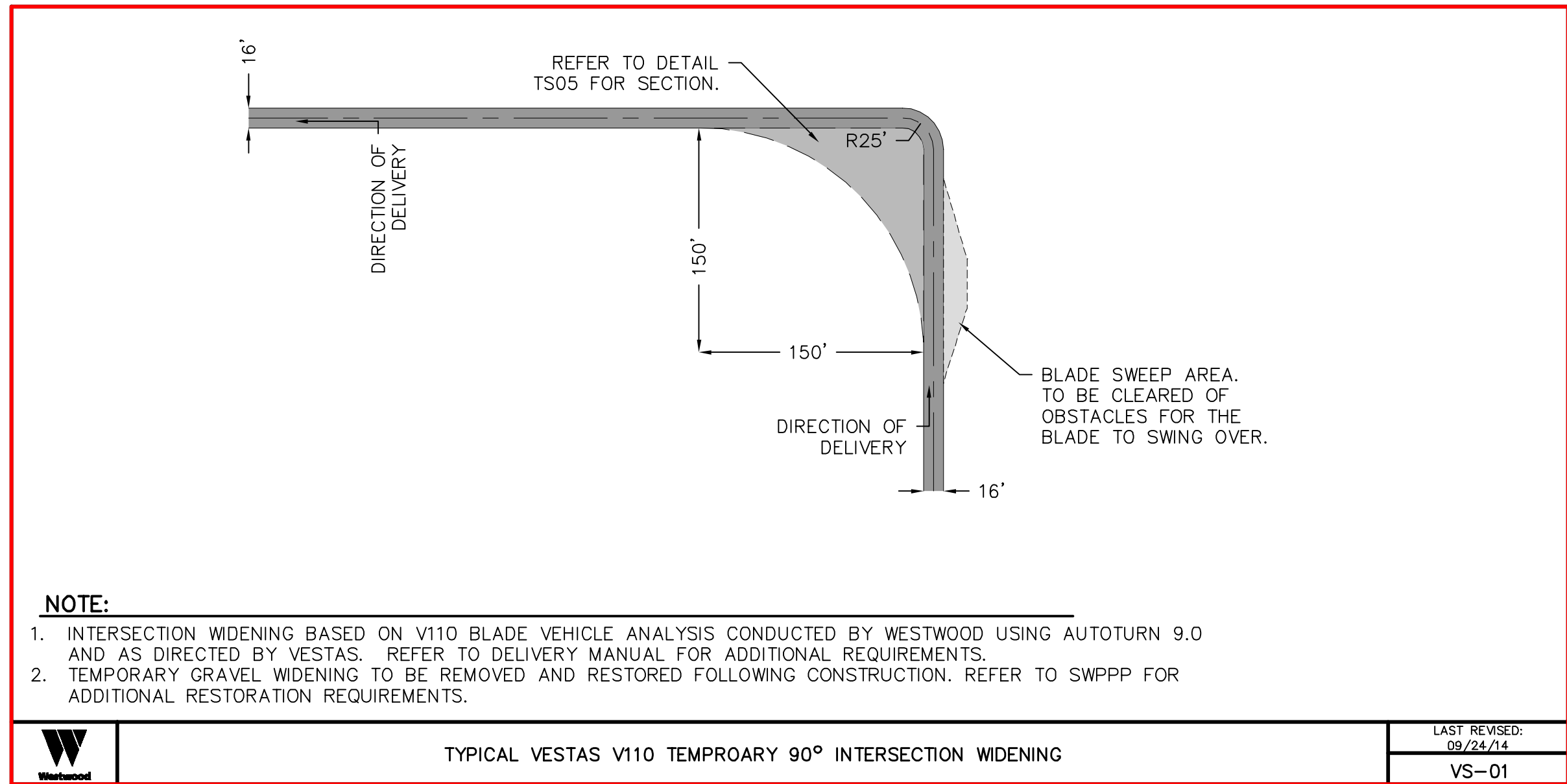
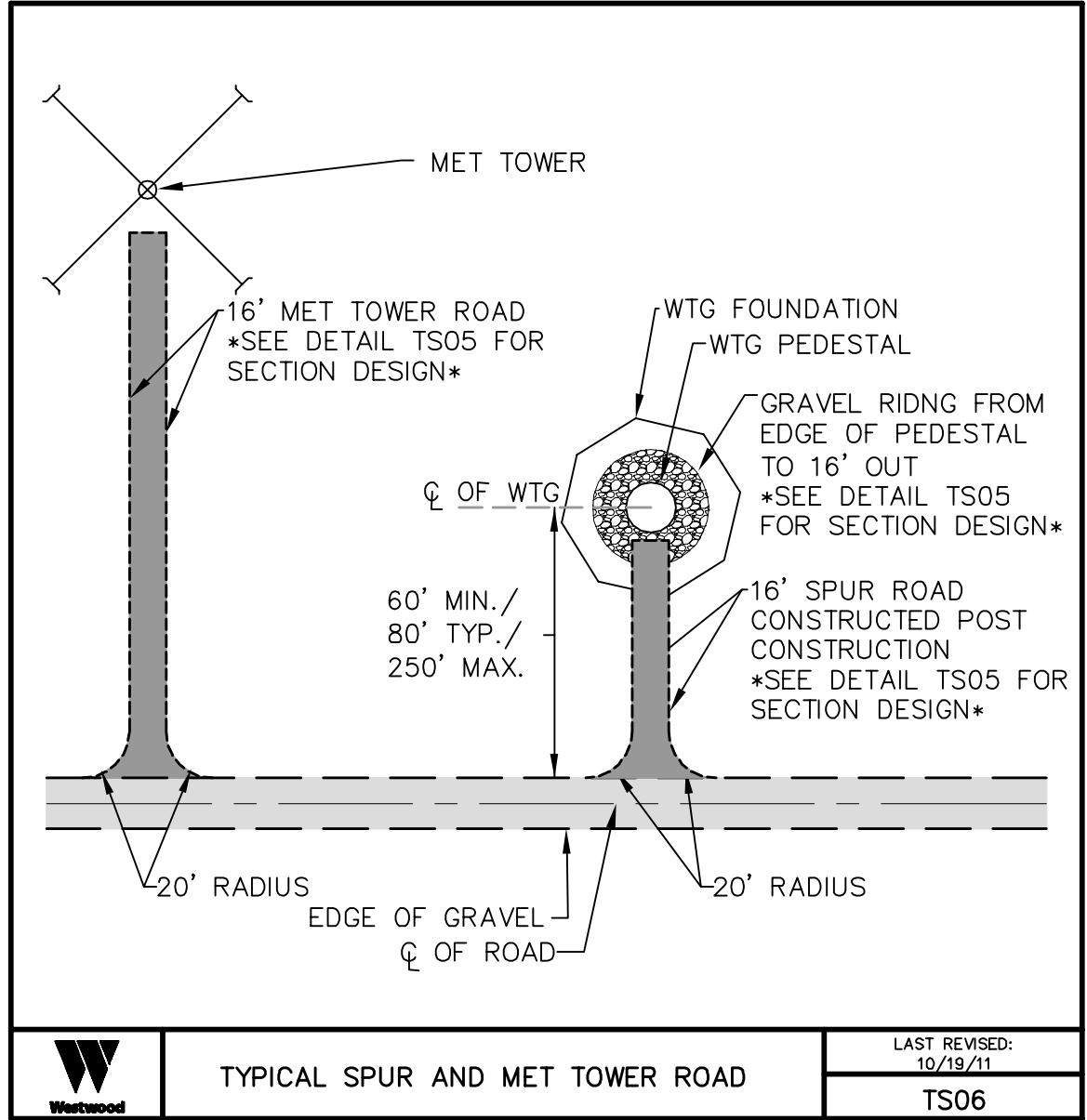
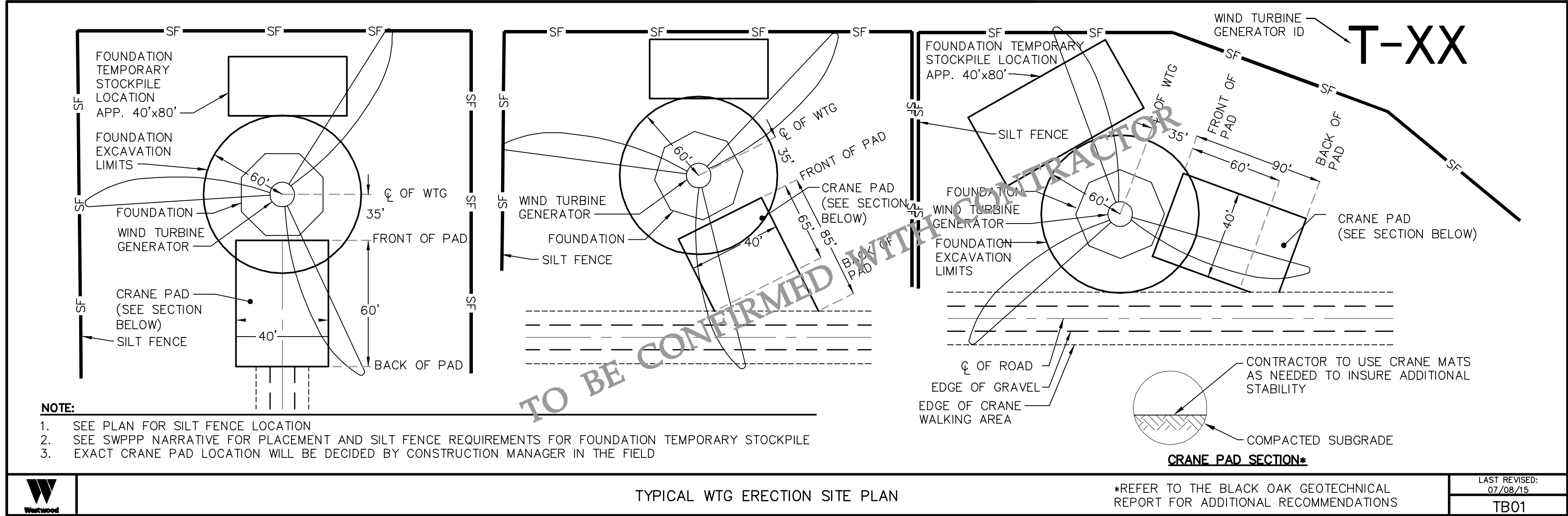
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Black Oak/Getty
Wind Farm
Stearns County, Minnesota

Construction Details

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Turbine Array:
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Date: 1/18/16
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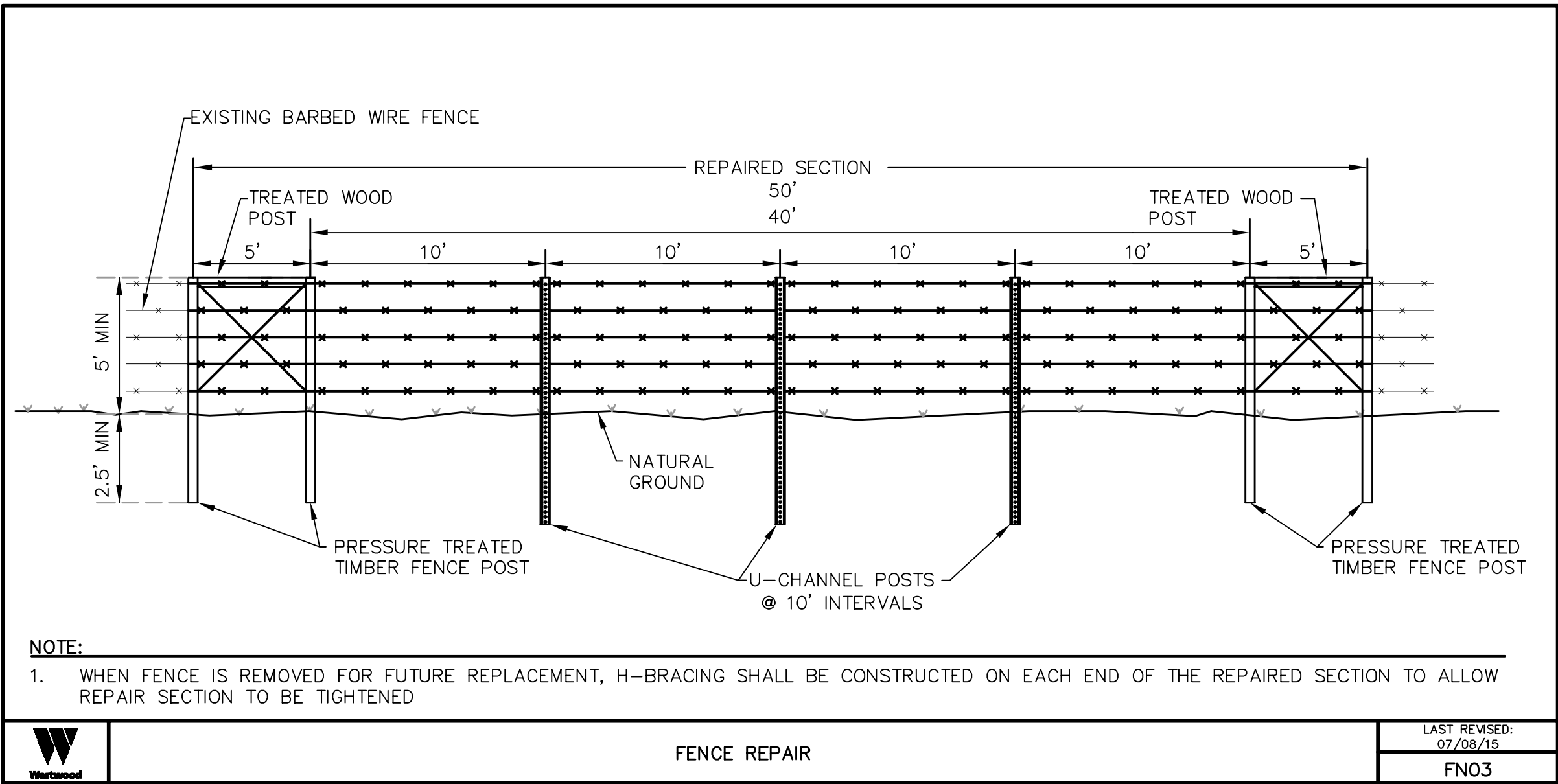
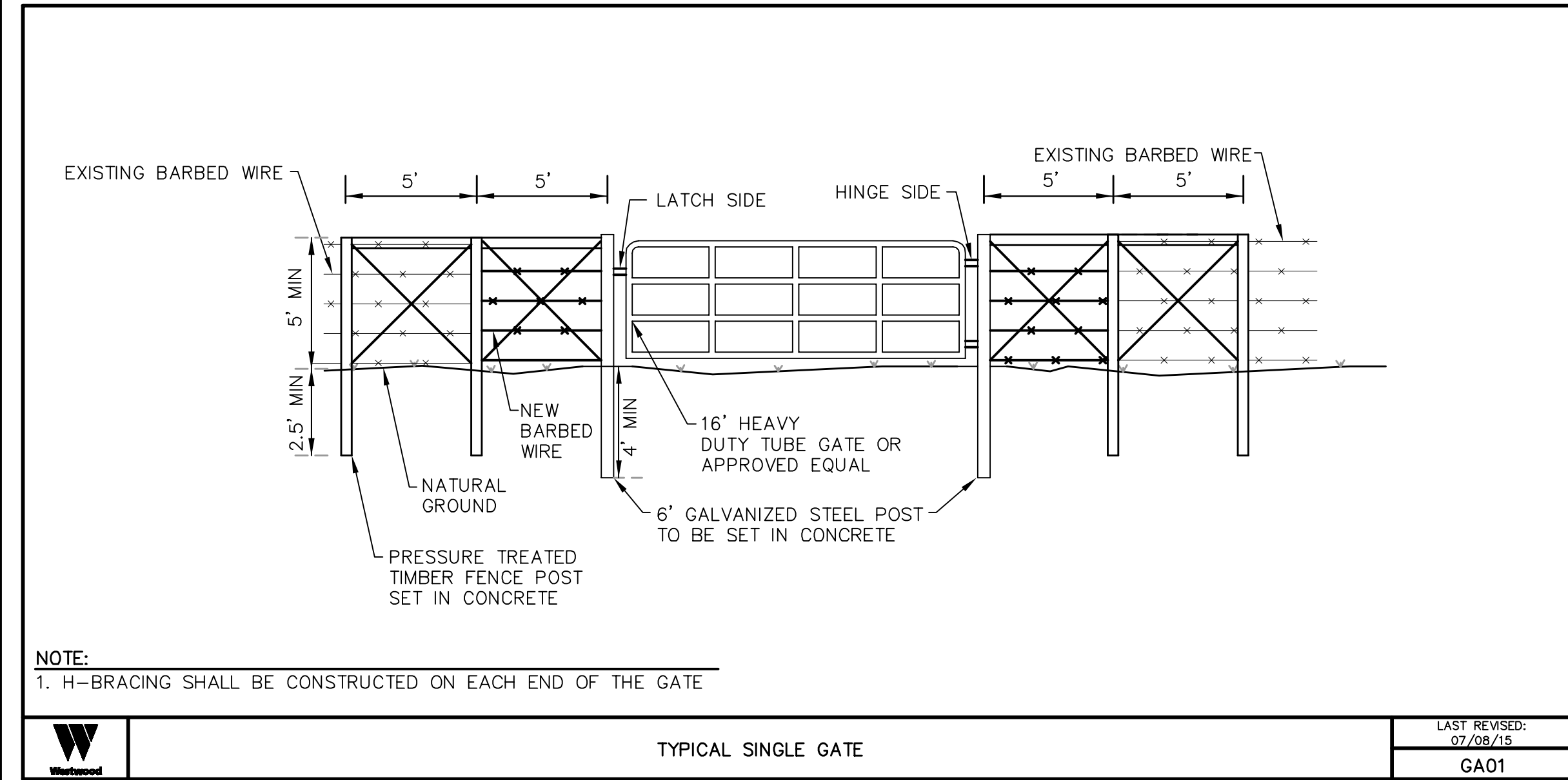
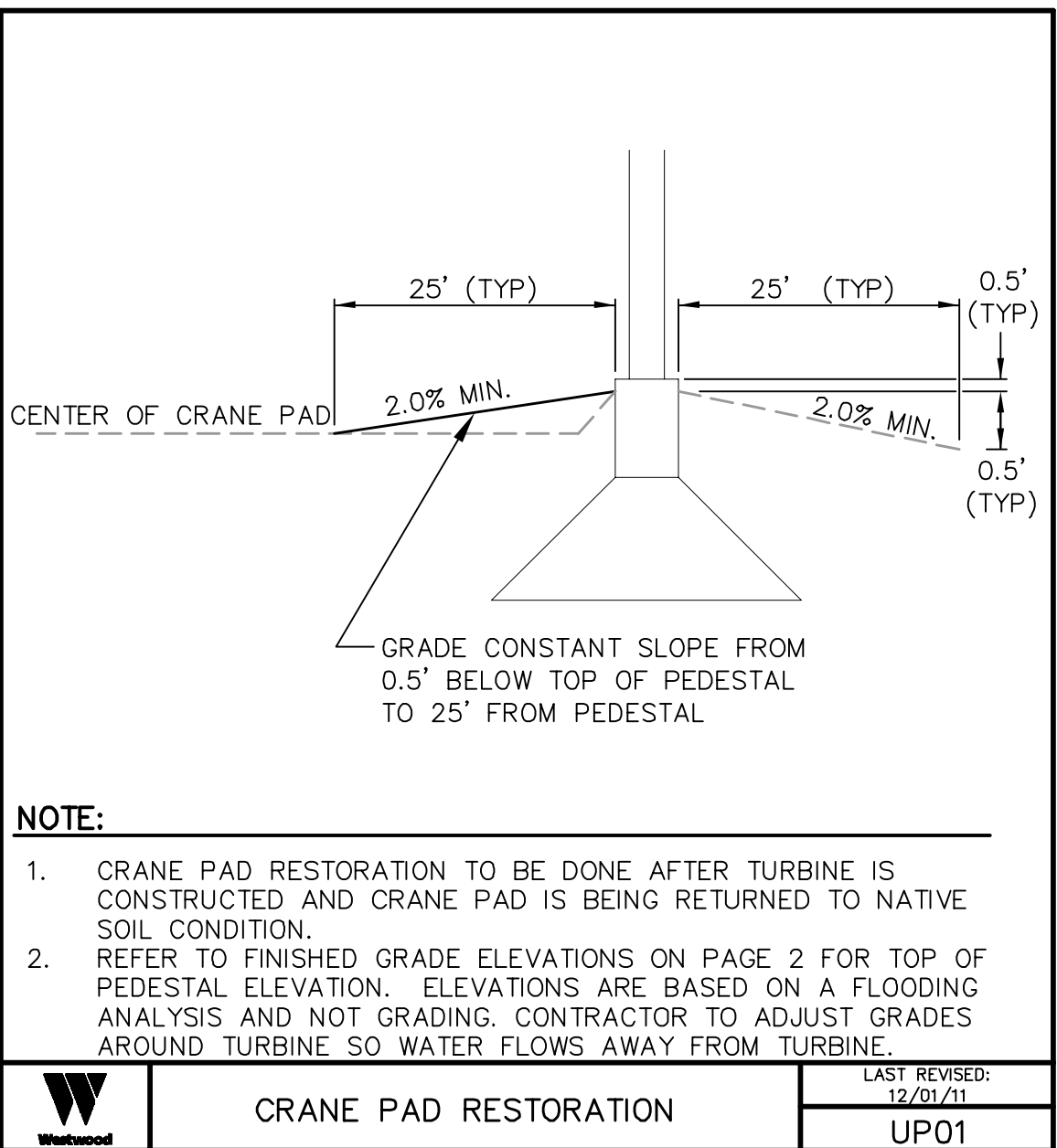
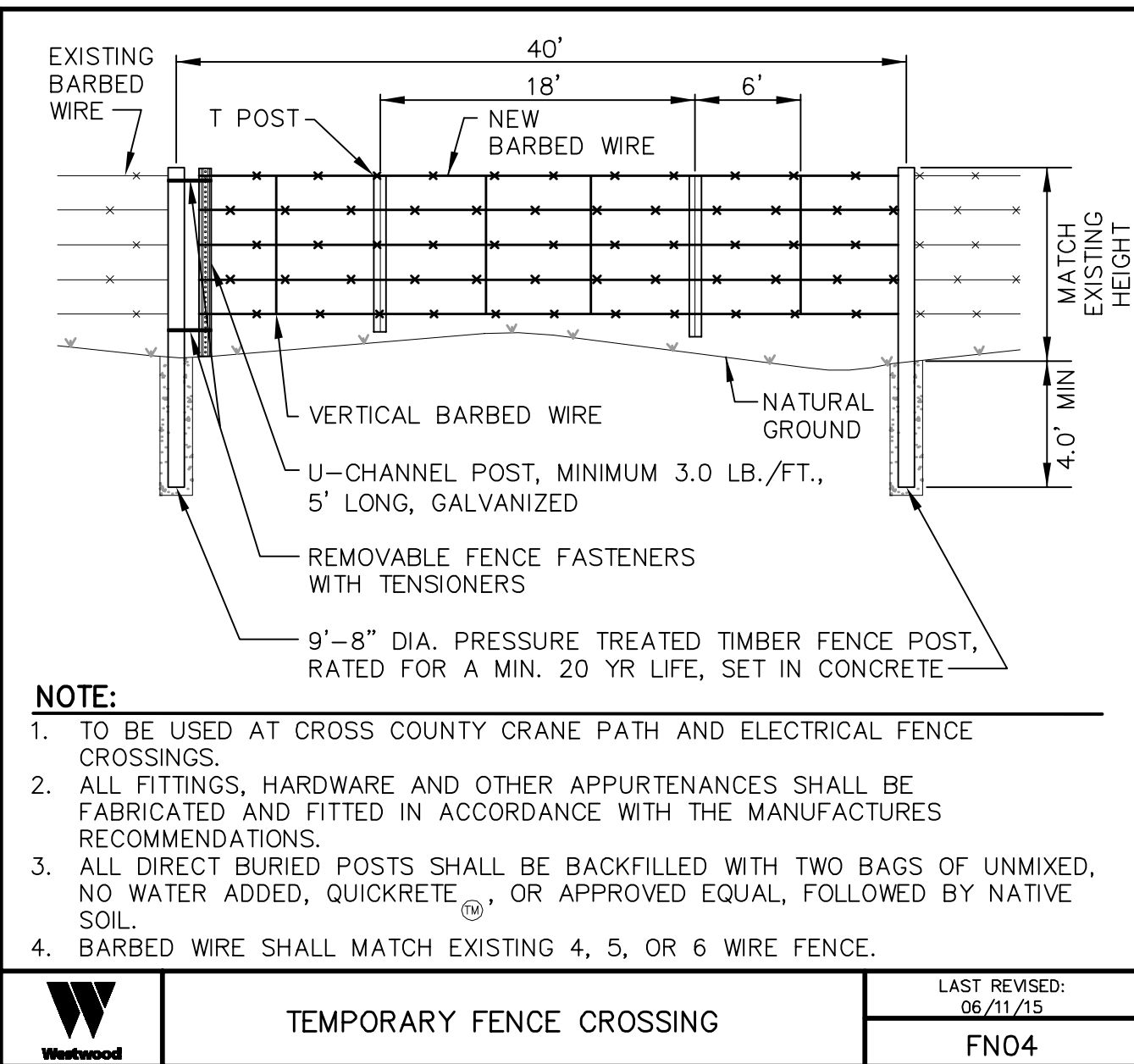
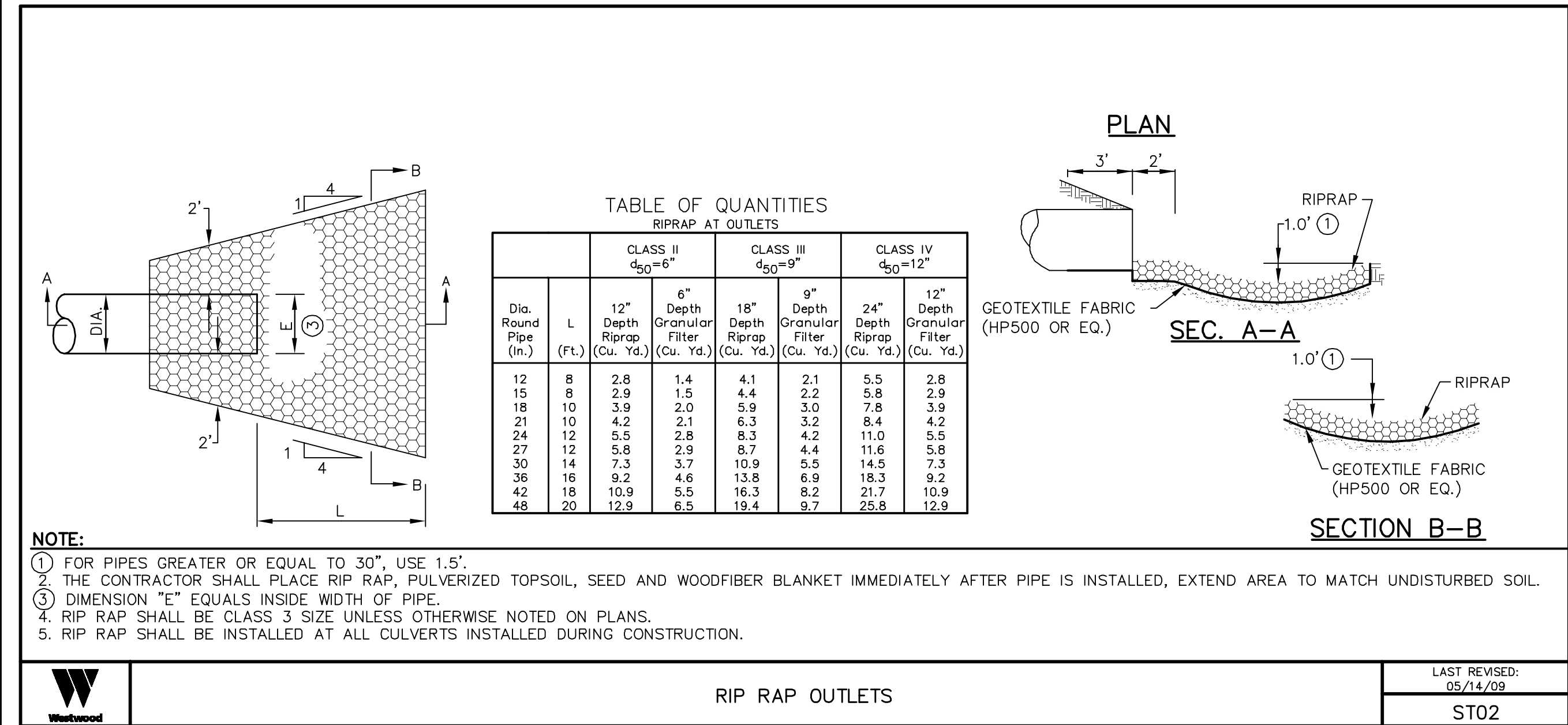
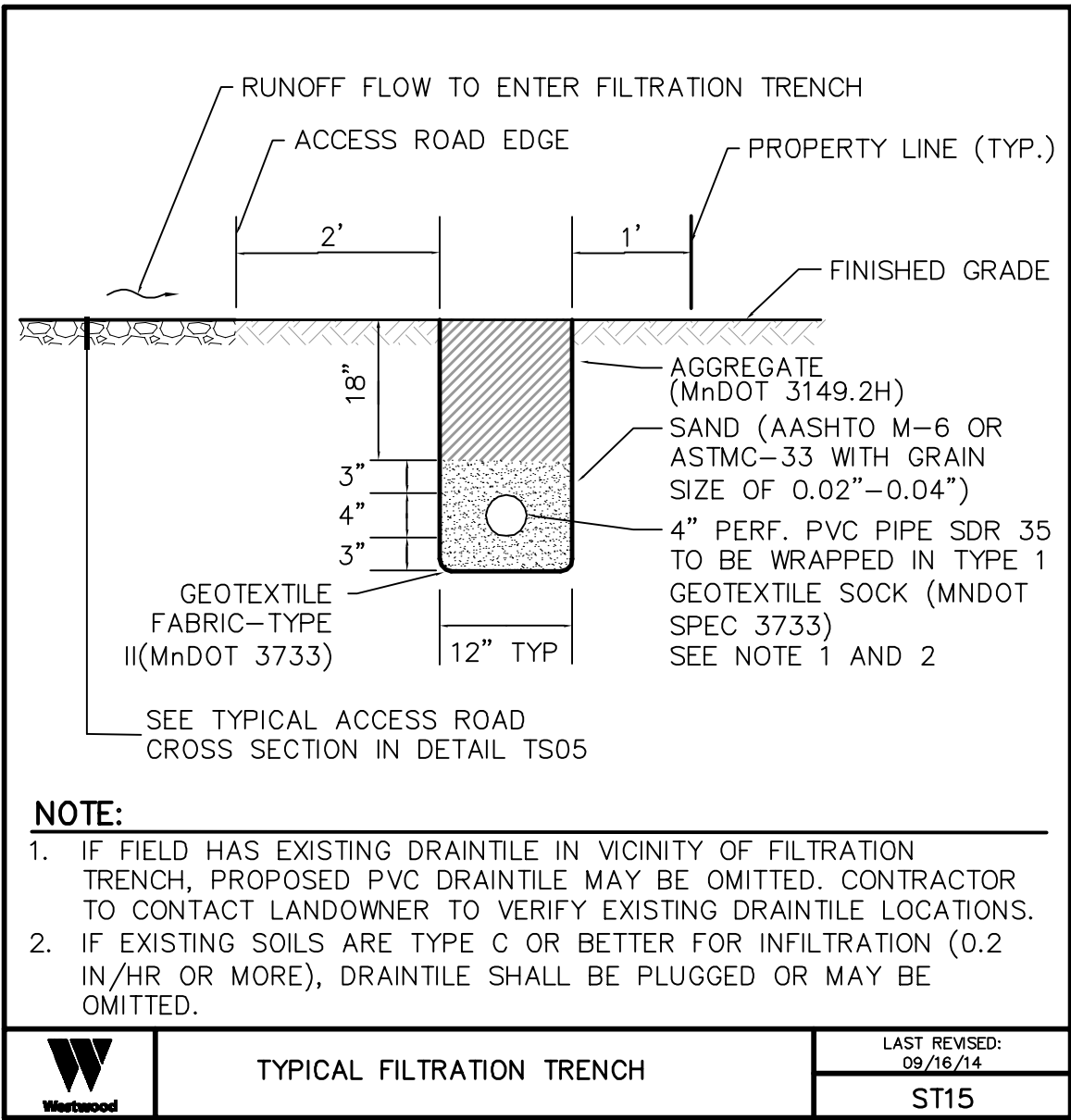
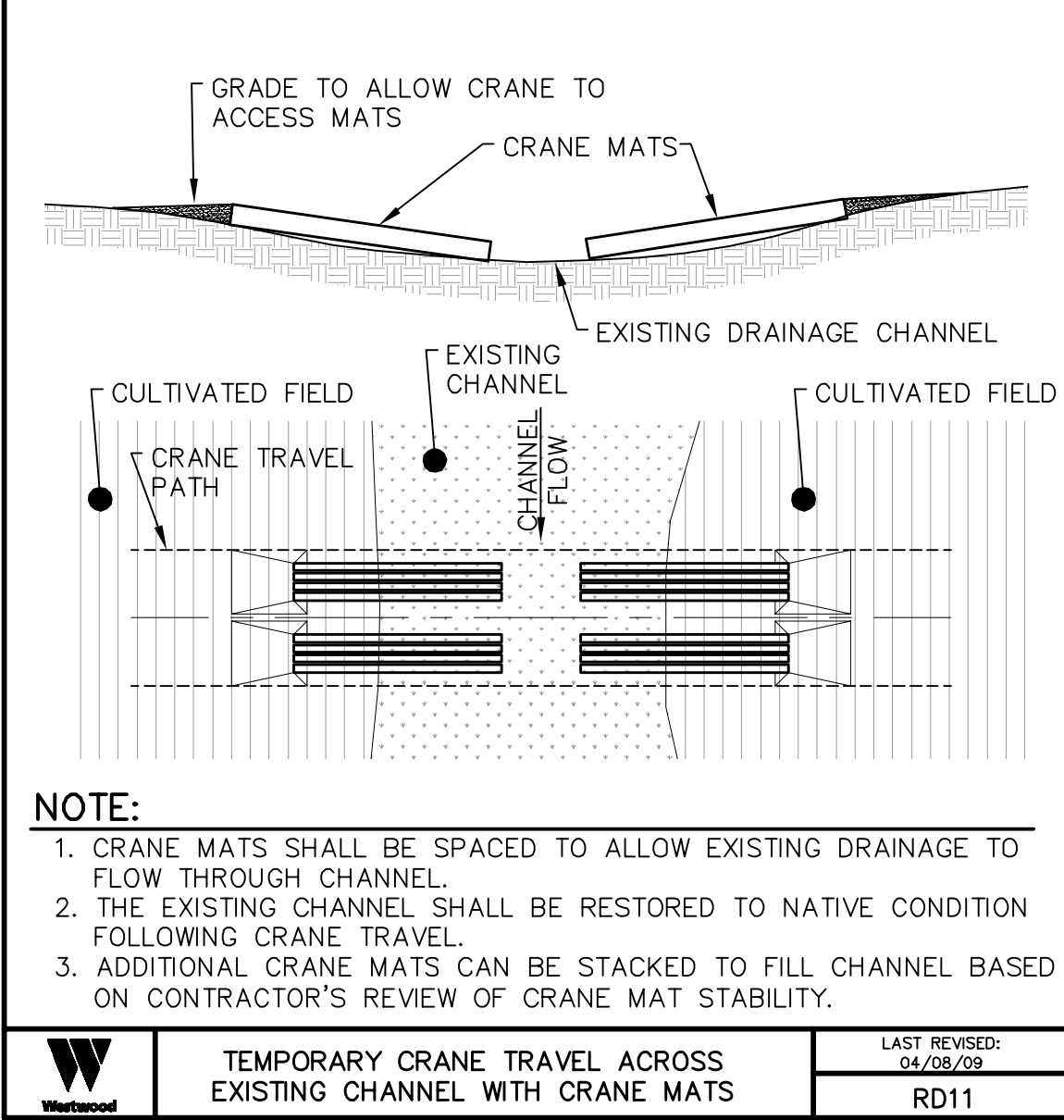
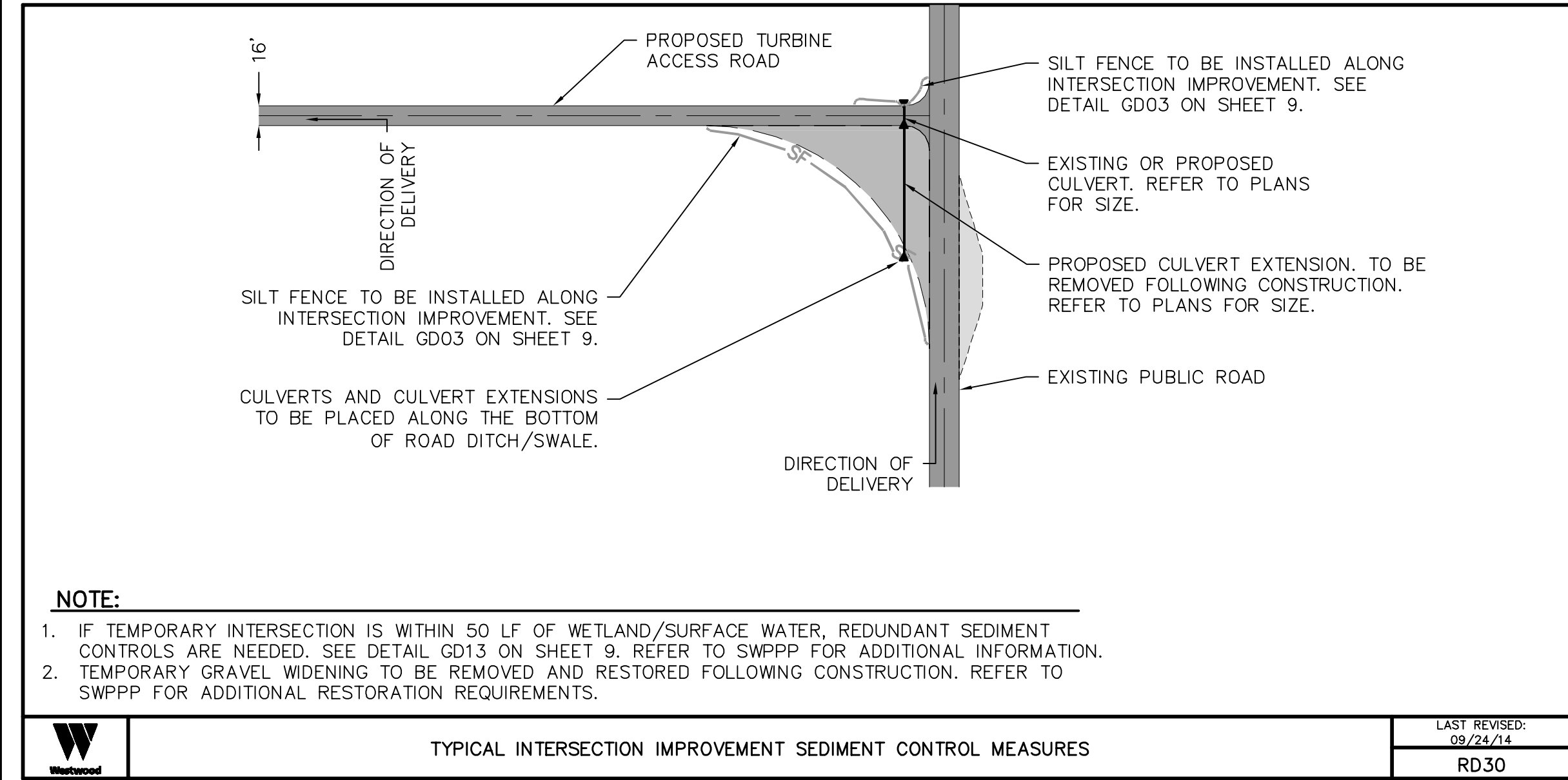
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Black Oak/Getty Wind Farm Stearns County, Minnesota

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H	6/11/15	ISSUED FOR PERMITTING
I	7/10/15	ISSUED FOR BID
J	8/07/15	ISSUED FOR PERMITTING
K	1/18/16	ISSUED FOR PERMITTING

Prepared for:

488 8th Avenue, HQ11,
San Diego, CA 92101

Black Oak/Getty Wind Farm Stearns County, Minnesota

Construction Details

ISSUED FOR PERMITTING

Turbine Array:
BOGY-39xVH10-80mHH_20140718_v1
Date: 1/18/16
Sheet: 6 OF 43

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of Minnesota.

Robert Stanley Copouls
Date: 1/18/16 License No. 47876

Designed: KLM

Checked: RSC

Drawn: JFH

Record Drawing by/date:

Revisions	DATE	DESCRIPTION
A	5/30/14	30% CIVIL CONSTRUCTION PLAN
B	8/15/14	60% CIVIL CONSTRUCTION PLAN
C	8/26/14	ISSUED FOR PERMITTING
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K	1/18/16	ISSUED FOR PERMITTING

Prepared for:



Black Oak/Getty Wind Farm

Stearns County, Minnesota

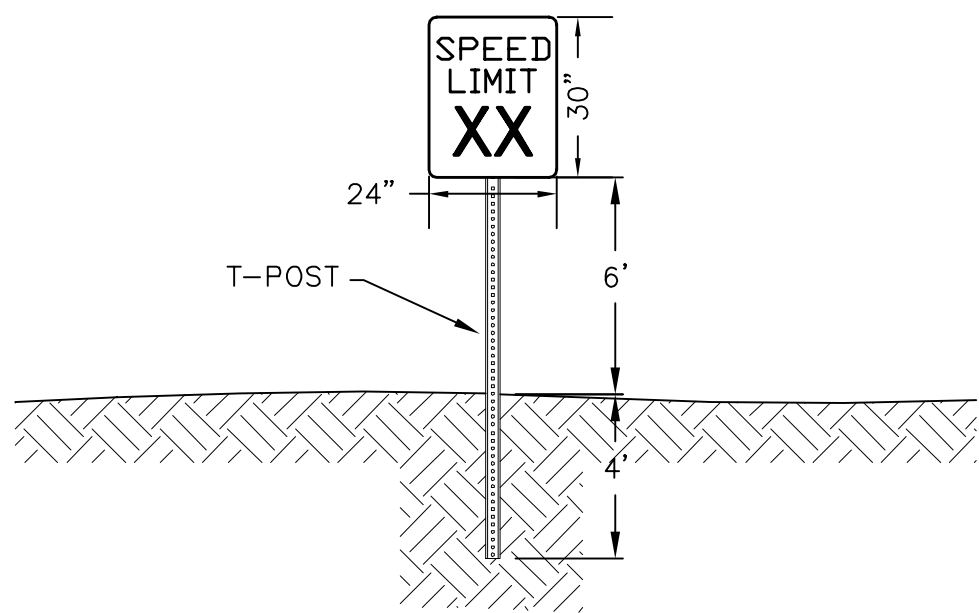
Construction Details

ISSUED FOR PERMITTING

Turbine Array:
BOGY-39xVH10-80mHH_20140718_v1

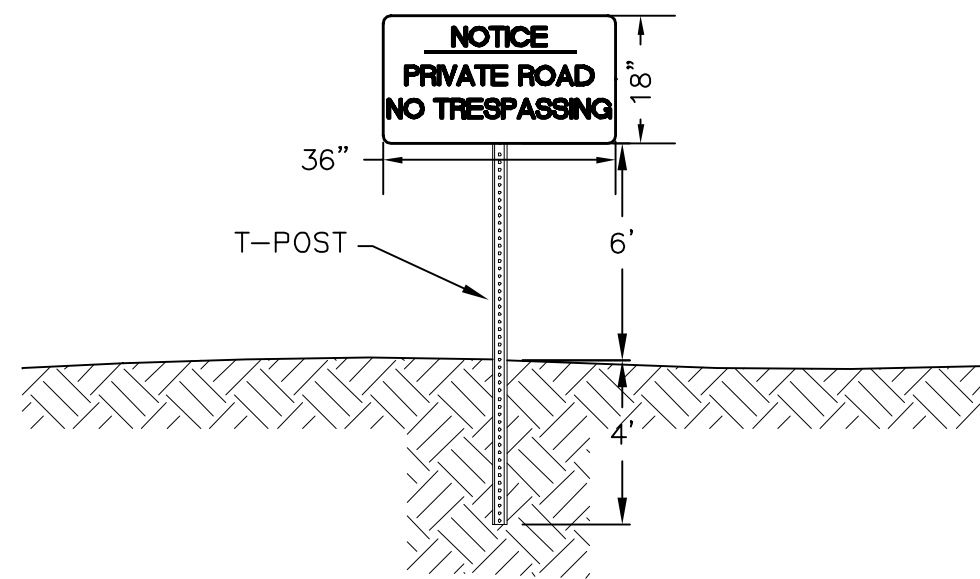
Date: 1/18/16

Sheet: 7 OF 43



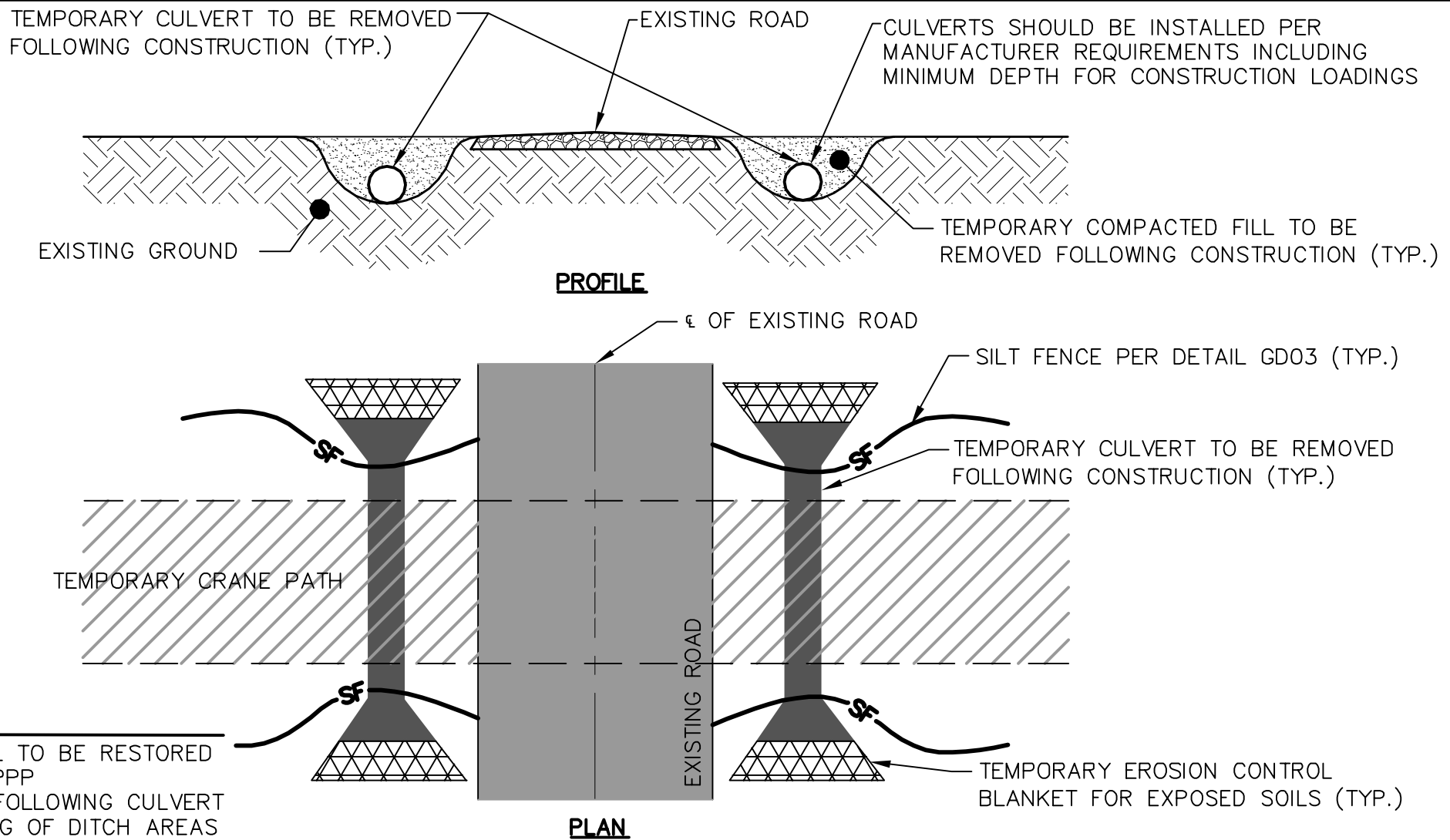
- NOTE:**
- CONSTRUCTOR TO PROVIDE SIGN AT THE BEGINNING OF ALL ACCESS ROADS IN A LOCATION THAT WILL NOT IMPACTED BY CONSTRUCTION.
 - SIGN TO BE MOUNTED TO T-POST PER MNDOT REQUIREMENTS FOR SIGNAGE.
 - OWNER TO PROVIDE ACTUAL SPEED LIMIT TO BE PLACED ON SIGN.
 - APPROVED EQUAL MAY BE UTILIZED AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW

W TYPICAL SPEED LIMIT SIGN DETAIL
LAST REVISED: 07/14/15
SN02



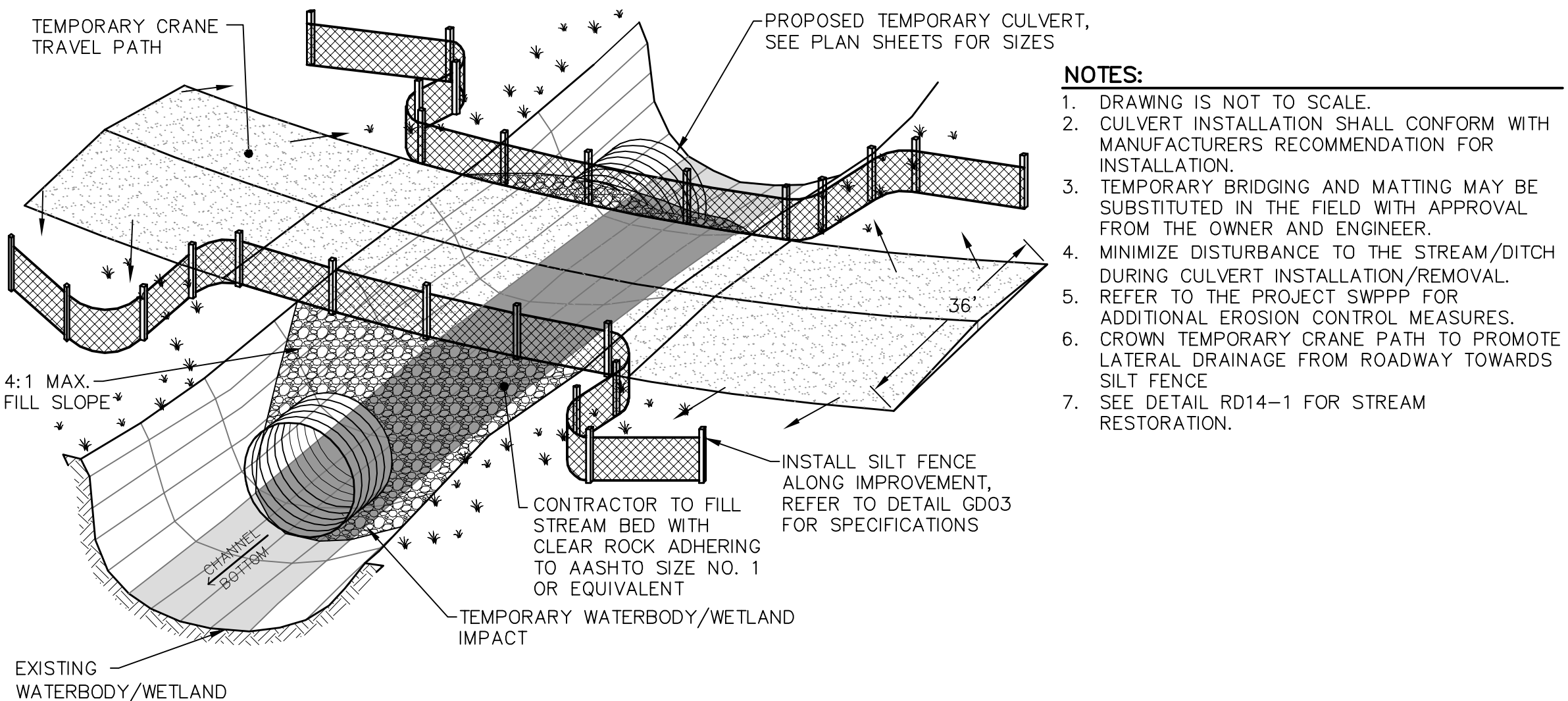
- NOTE:**
- CONSTRUCTOR TO PROVIDE SIGN AT THE BEGINNING OF ALL ACCESS ROADS IN A LOCATION THAT WILL NOT IMPACTED BY CONSTRUCTION.
 - SIGN TO BE MOUNTED TO T-POST PER MNDOT REQUIREMENTS FOR SIGNAGE.
 - APPROVED EQUAL MAY BE UTILIZED AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW

W TYPICAL NO TRESPASSING SIGN DETAIL
LAST REVISED: 07/14/15
SN03



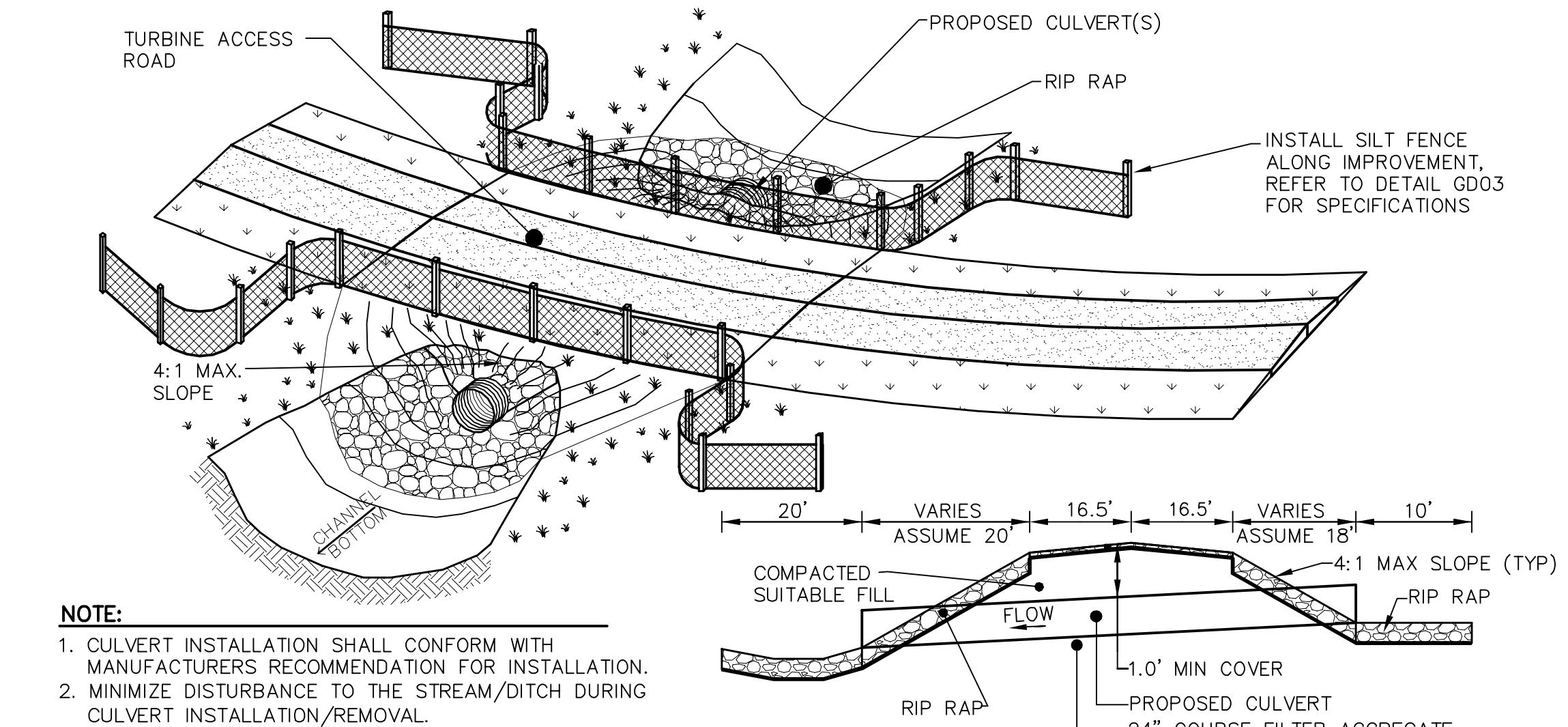
- NOTE:**
- ALL EXPOSED/DISTURBED SOIL TO BE RESTORED ACCORDING TO PROJECT SWPPP
 - APPLY SEED AND BLANKET FOLLOWING CULVERT REMOVAL AND FINAL GRADING OF DITCH AREAS

W TYPICAL TEMPORARY CRANE PATH EXISTING ROAD CROSSING
LAST REVISED: 05/27/11
RD22



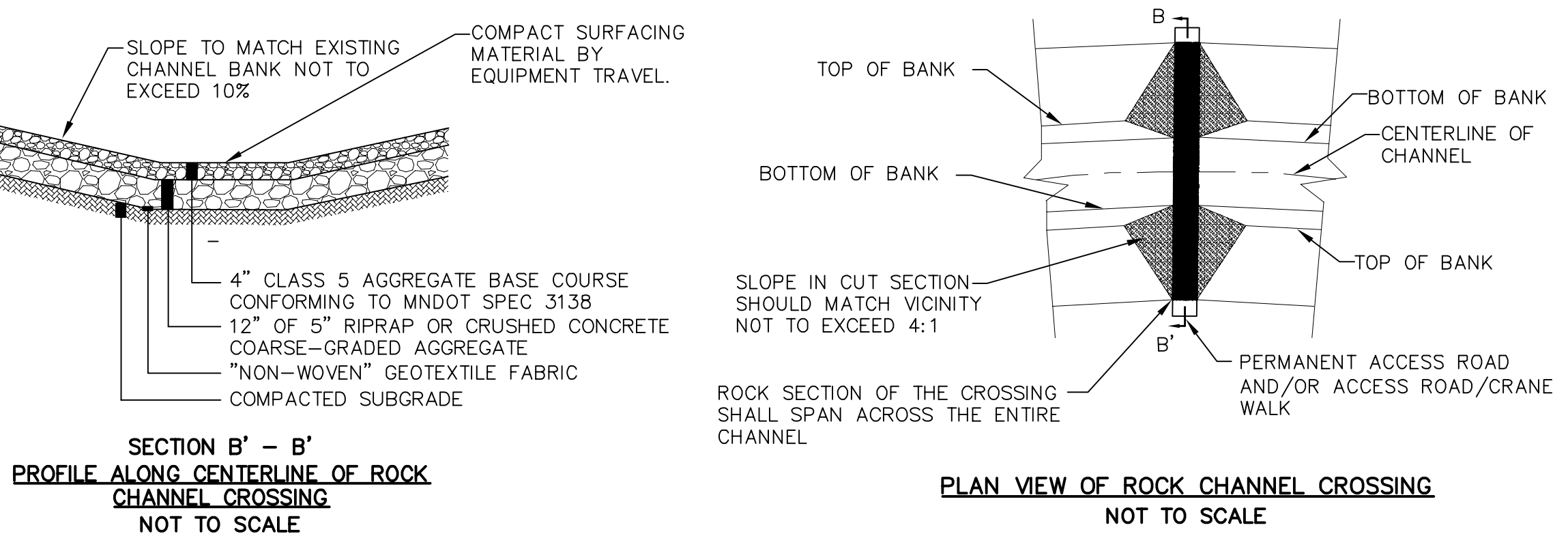
- NOTES:**
- DRAWING IS NOT TO SCALE.
 - CULVERT INSTALLATION SHALL CONFORM WITH MANUFACTURERS RECOMMENDATION FOR INSTALLATION.
 - TEMPORARY BRIDGING AND MATTING MAY BE SUBSTITUTED IN THE FIELD WITH APPROVAL FROM THE OWNER AND ENGINEER.
 - MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION/REMOVAL.
 - REFER TO THE PROJECT SWPPP FOR ADDITIONAL EROSION CONTROL MEASURES.
 - CROWN TEMPORARY CRANE PATH TO PROMOTE LATERAL DRAINAGE FROM ROADWAY TOWARDS SILT FENCE
 - SEE DETAIL RD14-1 FOR STREAM RESTORATION.

W TYPICAL TEMPORARY STREAM CROSSING WITH CULVERT
LAST REVISED: 11/16/10
RD14



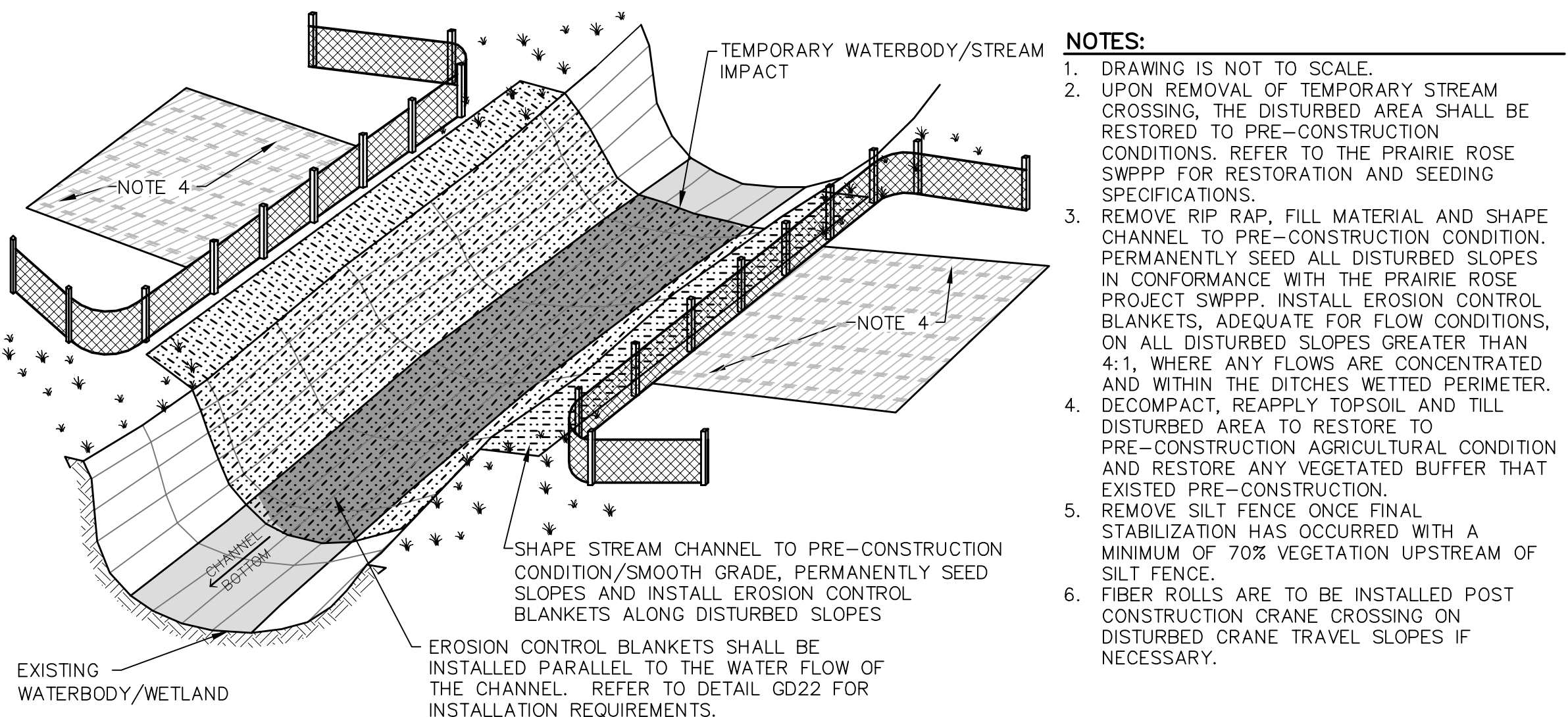
- NOTE:**
- CULVERT INSTALLATION SHALL CONFORM WITH MANUFACTURERS RECOMMENDATION FOR INSTALLATION.
 - MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION/REMOVAL.

W TYPICAL TURBINE ACCESS ROAD STREAM CROSSING
LAST REVISED: 04/08/09
RD12



- NOTE:**
- CHANNEL SLOPES TO BE MODIFIED TEMPORARILY DURING CONSTRUCTION TO ALLOW FOR ADEQUATE TURBINE COMPONENT DELIVERY AND RESTORE TO FINAL CONDITIONS UPON SITE RESTORATION.
 - CROSSINGS SHALL HAVE THE TOP-MOST SURFACE LAYER A MINIMUM OF 2.5 INCHES BELOW THE STREAM CHANNEL BOTTOM.
 - THE ACCESS ROAD SHALL CROSS THE DITCH AT 90° ANGLE.
 - THE TOP BED OF THE ROCK CHANNEL CROSSING SHALL CONFORM TO THE EXISTING DITCH CROSS SECTIONAL SLOPES.
 - MATERIAL THICKNESSES MAY BE FIELD ADJUSTED TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR ANTICIPATED ROAD USE.

W TYPICAL TURBINE ACCESS ROAD LOW WATER CROSSING
LAST REVISED: 04/08/09
RD16



- NOTES:**
- DRAWING IS NOT TO SCALE.
 - UPON REMOVAL OF TEMPORARY STREAM CROSSING, THE DISTURBED AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS. REFER TO THE PRAIRIE ROSE SWPPP FOR RESTORATION AND SEEDING SPECIFICATIONS.
 - REMOVE RIP RAP, FILL MATERIAL AND SHAPE CHANNEL TO PRE-CONSTRUCTION CONDITION. PERMANENTLY SEED ALL DISTURBED SLOPES IN CONFORMANCE WITH THE PRAIRIE ROSE PROJECT SWPPP. INSTALL EROSION CONTROL BLANKETS, ADEQUATE FOR FLOW CONDITIONS, ON ALL DISTURBED SLOPES GREATER THAN 4:1, WHERE ANY FLOWS ARE CONCENTRATED AND WITHIN THE DITCHES WETTED PERIMETER. DECOMPACT, REAPPLY TOPSOIL AND TILL DISTURBED AREA TO RESTORE TO PRE-CONSTRUCTION AGRICULTURAL CONDITION AND RESTORE ANY VEGETATED BUFFER THAT EXISTED PRE-CONSTRUCTION.
 - REMOVE SILT FENCE ONCE FINAL STABILIZATION HAS OCCURRED WITH A MINIMUM OF 70% VEGETATION UPSTREAM OF SILT FENCE.
 - FIBER ROLLS ARE TO BE INSTALLED POST CONSTRUCTION CRANE CROSSING ON DISTURBED CRANE TRAVEL SLOPES IF NECESSARY.

W TYPICAL TEMPORARY STREAM CROSSING RESTORATION
LAST REVISED: 11/16/10
RD14-1

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PERMANENT CULVERT—SEE CULVERT SCHEDULE

OBSTACLE FREE AREA FOR BLADE OVERHANG. SEE VESTAS SPEC

TEMPORARY CULVERT

SILT FENCE

PUBLIC ROAD

INSTALL SILT FENCE OR FIBER ROLLS AT EXPOSED EDGE BETWEEN ROAD AND DITCH

RESTRICTED ACCESS

NOTE:
1. UPON DELIVERY VEHICLE COMPLETION, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERT TO BE REMOVED AND ALL DISTURBED AREA RESTORED TO NATIVE CONDITIONS.
2. CULVERTS AND SILT FENCE SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING COUNTY DITCH.

150' MIN. INSIDE RADIUS

20' PERMANENT RADIUS

24' OR 30' WIDE TRUCK TURNING LANE

REFER TO DETAIL TS05 FOR SECTION DESIGN

EDGE OF GRAVEL

ACCESS ROAD

W

TRUCK TRAFFIC TURNING LANE
A

LAST REVISED:
10/09/15
RD08—A

PROTECT EXISTING OBSTRUCTION

PERMANENT CULVERT—SEE CULVERT SCHEDULE

TEMPORARY CULVERT

PUBLIC ROAD

20' PERMANENT RADIUS

INSTALL SILT FENCE OR FIBER ROLLS AT EXPOSED EDGE BETWEEN ROAD AND DITCH

EDGE OF GRAVEL

ACCESS ROAD

OBSTACLE FREE AREA FOR BLADE OVERHANG. SEE VESTAS SPEC

150' MINIMUM INSIDE RADIUS

24' OR 30' WIDE TRUCK TURNING LANE

REFER TO DETAIL TS05 FOR SECTION DESIGN

NOTE:
1. UPON DELIVERY VEHICLE COMPLETION, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERT TO BE REMOVED AND ALL DISTURBED AREA RESTORED TO NATIVE CONDITIONS.
2. CULVERTS AND SILT FENCE SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING COUNTY DITCH.

W

TRUCK TRAFFIC TURNING LANE
B

LAST REVISED:
10/09/15
RD08—B

ACCESS ROAD WITH CRANE PATH WHERE APPLICABLE

150' MINIMUM CENTERLINE RADIUS

36' WIDE CRANE PATH

16' WIDE ACCESS ROAD

ACCESS ROAD WITHOUT CRANE PATH

150' MINIMUM CENTERLINE RADIUS

16' WIDE ACCESS ROAD

NOTE:
1. SOME RADII MAY REQUIRE ADDITIONAL SOIL COMPACTION OR GRAVEL OUTSIDE OF THE WIDTH SHOWN ABOVE TO ACCOMMODATE TRACTORS OR TRAILERS TRACKING OFF THE ACCESS ROAD.

W

MINIMUM RADIUS FOR TURBINE ACCESS ROAD

LAST REVISED:
04/20/11
RD05

VESTAS REVIEW

VESTAS REVIEW

VESTAS REVIEW

Westwood Professional Services, Inc.
7699 Anagram Drive
Eden Prairie, MN 55344
PHONE 952-937-5150
FAX 952-937-5822
TOLL FREE 1-888-937-5150
www.westwoodps.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of Minnesota.

Robert Stanley Copouls

Date: 1/18/16 License No. 47876

Designed: KLM

Checked: RSC

Drawn: JFH

Record Drawing by/date:

Revisions

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Prepared for:

Black Oak
Getty Wind

488 8th Avenue, HQ11,
San Diego, CA 92101

Black Oak/Getty
Wind Farm
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ISSUED FOR PERMITTING

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BOGY_99xVH10-80mHH_20140718_v1

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Sheet: 8 OF 43

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