



Client Name:

C&D Technologies

Site Location:

Attica, Indiana

60519496 Project No.

Photo No. **Date:** 2/2/17

Direction Photo

Taken:

Description:

Representative concrete floor present in Area 3



Photo No. Date:

Direction Photo Taken:

Description:

Representative concrete floor present in Area 7





C&D Technologies

Photo No. Date:

3 2/2/17

Direction Photo Taken:

### Description:

Representative concrete floor present in Area 7





**Project No.** 60519496

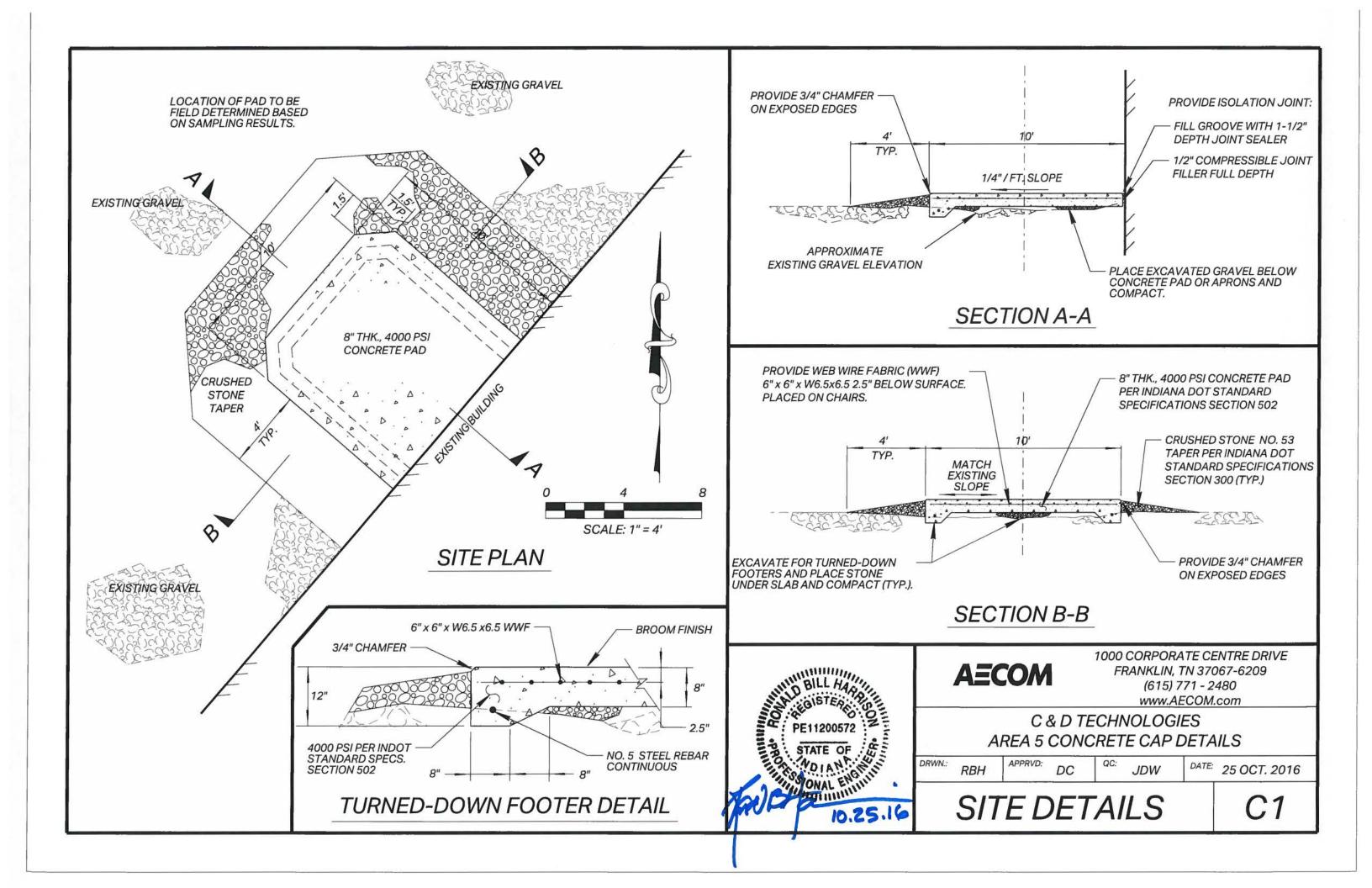
**Site Location:** Attica, Indiana C&D Technologies
Photo No Date:

Direction Photo
Taken:

### Description:

Representative concrete floor present in Area 11





Routine Inspection Form Areas 3, 5, 7, and 11 C&D Technologies Attica, Indiana

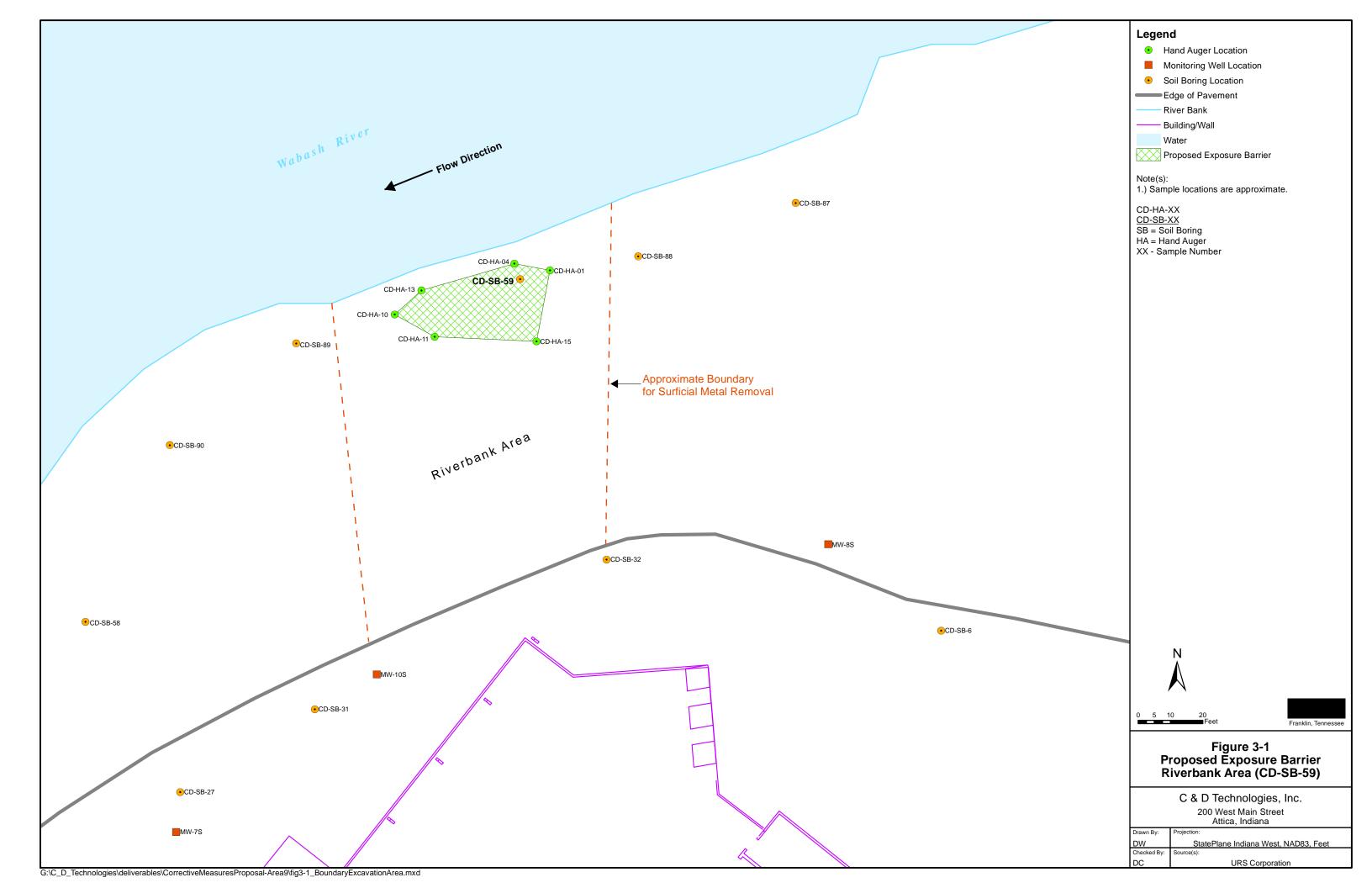
Inspected By:			Inspection Area:
Inspection Date:			
Reason for Inspection:			Monthly General Visit Other
Weather at time of Inspection			
Weather Conditions:			
Area of Inspection	Yes	No	Action Required
Concrete Floor (Area 3)			
Cracks			
Surface cracks			
Surface Finish (signs of deterioration)			
Surface condition in high traffic areas - visible damage			
Area of Inspection	Yes	No	Action Required
Concrete Floor (Area 7)			
Cracks			
Surface cracks			
Surface Finish (signs of deterioration)			
Surface condition in high traffic areas - visible damage			
Area of Inspection	Yes	No	Action Required
Concrete Floor (Area 11)			
Cracks			
Surface cracks			
Surface Finish (signs of deterioration)			
Surface condition in high traffic areas - visible damage			

### Routine Inspection Form Areas 3, 5, 7, and 11 C&D Technologies Attica, Indiana

Area of Inspection	Yes	ON	Action Required	red
Area 5				
Concrete Pad				
Surface cracks				
Cracks around edges of pad, near exterior facility wall				
Surface deterioration				
Gravel Apron (Area 5 Only)				
Evidence of wash and/or displacement of apron gravel				
Is gravel in place around apron				
Erosion				
Visible surface erosion around gravel apron and concrete pad				
Overall Conditions/Comments				
Coorective Action(s) Required	Yes	ON	Areas (i.e., crack repair, add gravel )	; add gravel )
Corretive Action (if ves checked above)		Re	Required Action	Completed (Date)

Signature

Date





**Client Name:** 

Site Location:

Project No.

**C&D** Technologies

Attica, IN

60519496

Photo No.

**Date:** 12/13/16

Direction Photo Taken: West



View east of work area from facility fence/access road.



Photo No.

2

**Date:** 12/13/16

Direction Photo Taken: South

### Description:

Previously disturbed area restored with fall mix and straw mat.





Client Name:

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Project No.

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Attica, IN

60519496

Photo No.

5

**Date:** 12/13/16

Direction Photo Taken: West



View west along southern boundary of surficial metal removal towards Wabash River.



Photo No.

**Date:** 12/13/16

Direction Photo Taken: North

### Description:

View north along lower eastern boundary of the exposure barrier. Survey markers represent exposure barrier boundaries.





Client Name:

**C&D** Technologies

Site Location:

Attica, IN

**Project No.** 60519496

Photo No.

9

**Date:** 12/13/16

Direction Photo Taken: South



### Description:

View south along western portion of the exposure barrier from the upstream side. Survey markers represent exposure barrier boundaries.

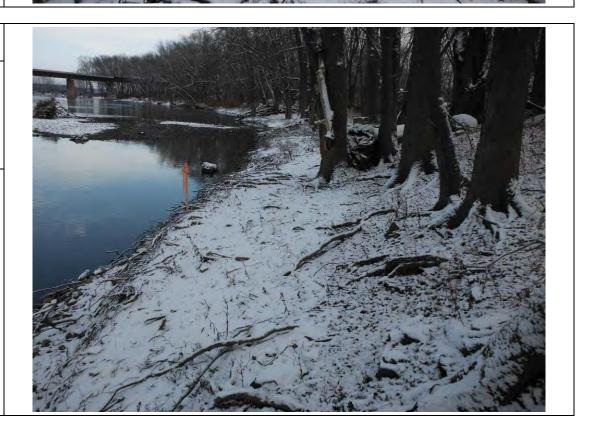
Photo No.

**Date:** 12/13/16

Direction Photo Taken: North

### Description:

View north from north end of exposure barrier towards northern boundary of the surficial metal removal area.





Client Name:

C&D Technologies

Photo No. Date: 12/13/16

**Direction Photo** Taken: Southwest

13

### Description:

View west across exposure barrier. Survey markers represent exposure barrier boundaries.



Project No. 60519496



Photo No.

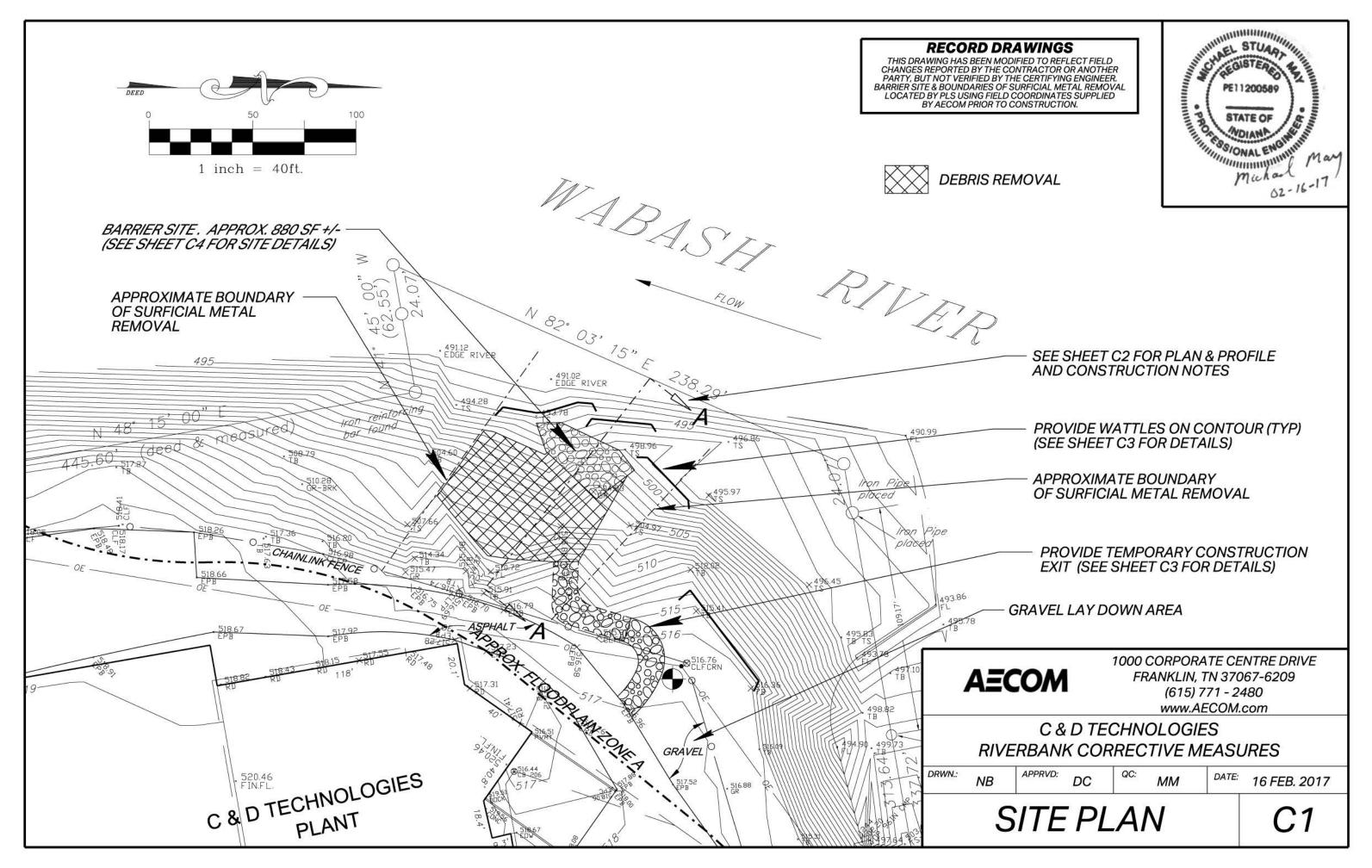
Date: 12/9/16

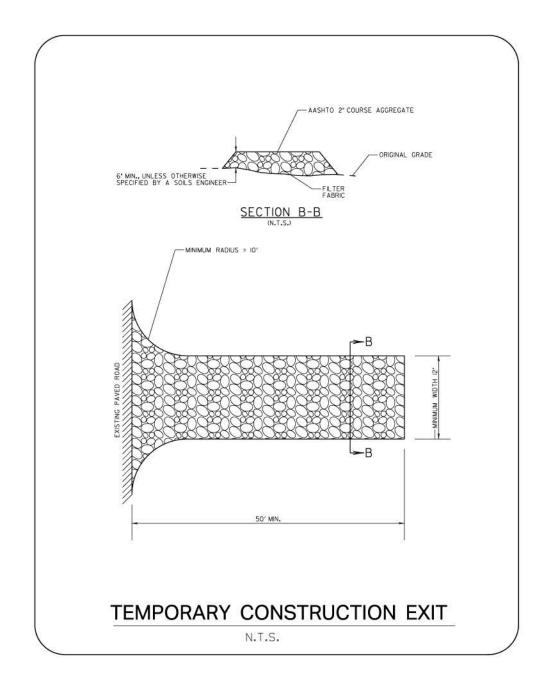
**Direction Photo** Taken: Southwest

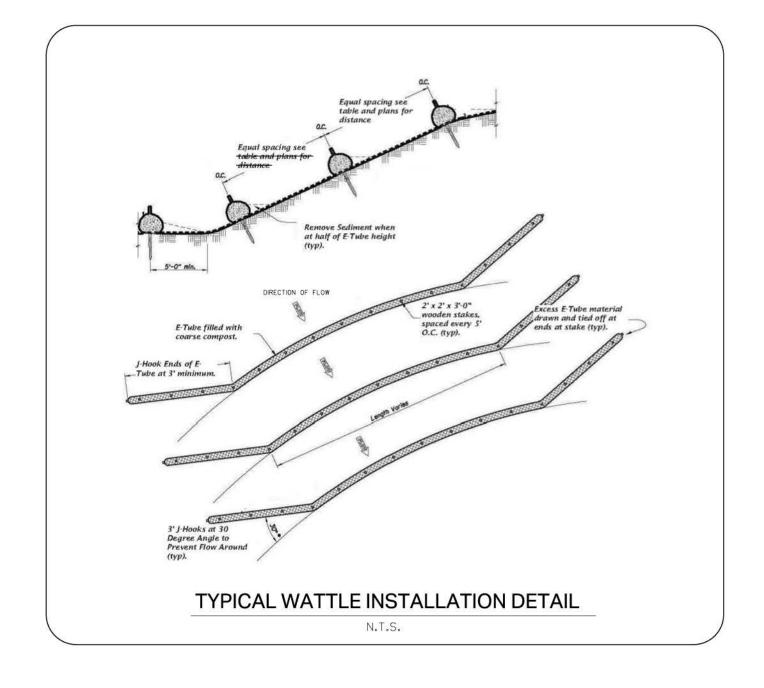
### **Description:**

Metal debris removed from work area staged near entrance to work area.



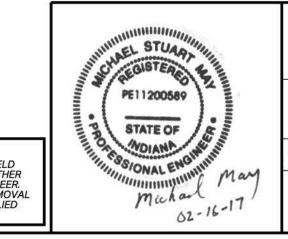






### RECORD DRAWINGS

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER. BARRIER SITE & BOUNDARIES OF SURFICIAL METAL REMOVAL LOCATED BY PLS USING FIELD COORDINATES SUPPLIED BY AECOM PRIOR TO CONSTRUCTION.



### **AECOM**

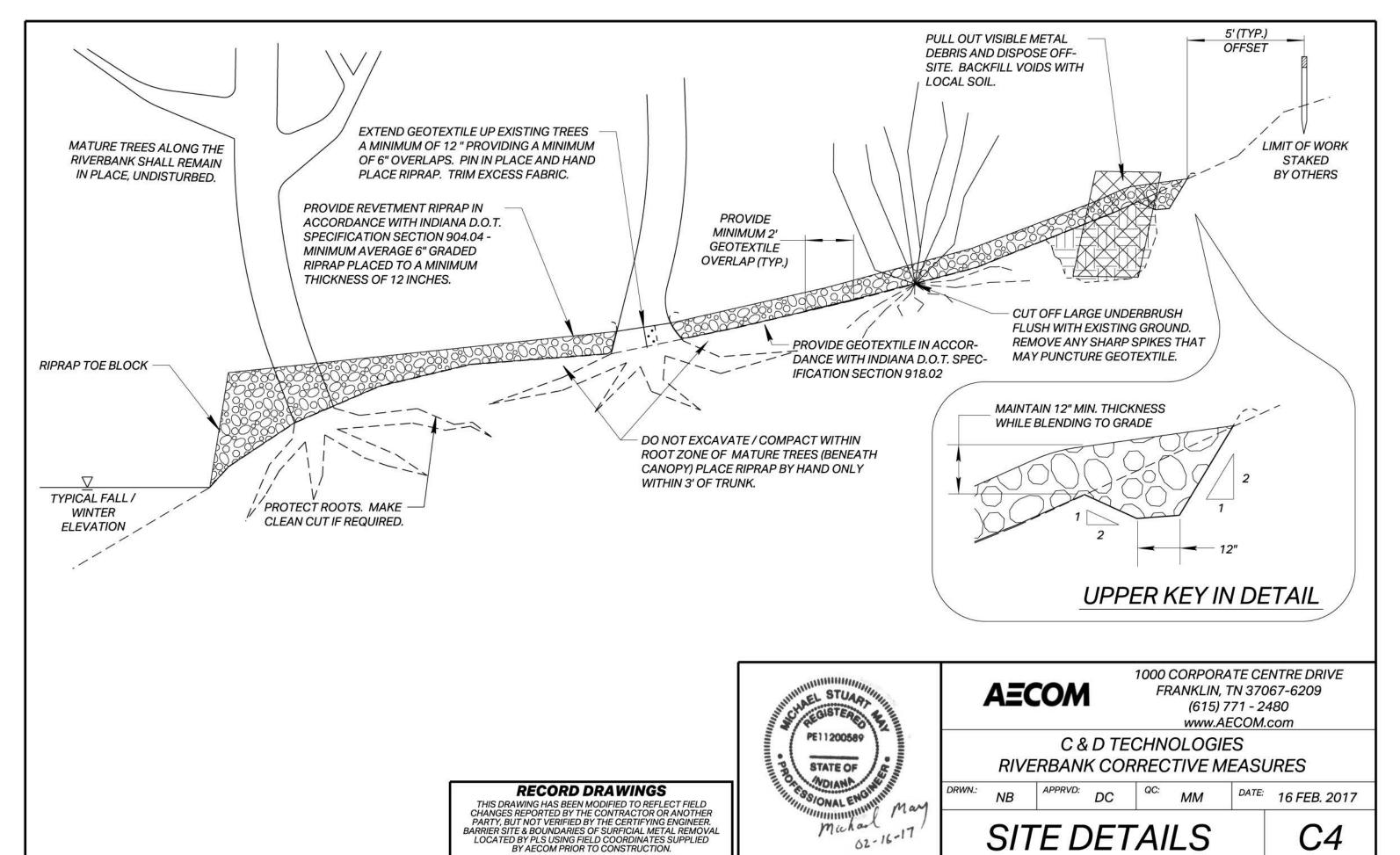
1000 CORPORATE CENTRE DRIVE FRANKLIN, TN 37067-6209 (615) 771 - 2480 www.AECOM.com

C & D TECHNOLOGIES
RIVERBANK CORRECTIVE MEASURES

DRWN.: NB APPRVD: DC QC: MM DATE: 16 FEB. 2017

ESPC DETAILS

C3



### Routine Inspection Form Riverbank Area Exposure Barrier C&D Technologies Attica, Indiana

Inspected By:		_			
Inspection Date:		_			
Reason for Inspection:			Quarterly	Flood Event	Rain Event
River Elevation at Layfayette, India	ana:	(ft	:)	Rain Gauge:	(in)
Weather Conditions:					
Inspection Area	Yes	No		Action Required	
Exposure Barrier					
Gate (Locked)					
Riprap					
Evidence of Wash and/or Displacement					
Surface Debris (logs, general river trash)					
Is Riprap in place on toe of slope					
Geotextile (visible)					
Are Upstream Edges Exposed				_	
Are Toe Edges Exposed					
Are Exposed Areas Damaged (i.e., Torn or Ripped)					
Erosion					
Visible Surface Erosion					
Geotextile Undercut					
Scour Zones					
Overall Conditions/Comments					

	1&O	M Schedule
Unit	Frequency	Description of Maintenance
		Inspect riprap and geotextile fabric around the perimeter of the exposure barrier for evidence of erosion and under cutting  Inspect geotextile liner around base of trees inside the exposure barrier footprint for visible damage and wear
Riverbank Area	Quarterly	Inspect surface area of exposure barrier for missing or displaced riprap
		Inspect revegetated areas for vegetative growth and surface erosion from rainfall events.
		Clear large debris (i.e., tree limbs, flood debris, etc.) from the exposure barrier that could aid in dislodging riprap or damaging the underlying geotextile fabric.
		Inspect riprap and geotextile fabric around the perimeter of the exposure barrier for evidence of erosion and under cutting
Riverbank Area		Inspect geotextile liner around base of trees inside the exposure barrier footprint for visible damage and wear
	After heavy rain/flood events	Inspect surface area of exposure barrier for missing or displaced riprap
		Inspect revegetated areas for vegetative growth and surface erosion from rainfall events.
		Clear large debris (i.e., tree limbs, flood debris, etc.) from the exposure barrier that could aid in dislodging riprap or damaging the underlying geotextile fabric.