

PROJECT NUMBER

STPN-085-1(7)--2J-79

Call before you

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REVISIONS		TOTAL
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	PROJECT IDENTIFICATION N	JMBER
	17-79-085-010	
	PROJECT NUMBER	
	STPN-085-1(7)2J-79	
	R.O.W. PROJECT NUMBER	7

DO	- Concept
D2	- Field Exam
D5	- ROW Submittal
D9	- Contracts Submittal
	•

L4 - Letting

1/30/17 2/28/17 3/15/17 4/4/17 6/20/17

Complete Complete Pending Scheduled Scheduled



Subject to change by final design.

D5 PLAN - Date: 3/15/17

SHEET NUMBER A.1

UTILITY LEGEND SURVEY SYMBOLS PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS LINEWORK Design Color No. (2) Existing Topographic Features and Labels Green SIGN SI Sign PPA Alliant Energy . Blue (1) Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation FWD Wood Fence TPD Telephone Pedestal - Windstream O TP C TDC Tree Deciduous Magenta (5) Existing Utilities - F0 - FO1D Windstream Fiber Optic - Quality D FW Wire Fence — × — SHADING Design Color No. - F02 - F02D Windstream Fiber Optic - Quality D - Tile - TIL Tile Line — W - WL1D Poweshiek Water Co. Water Line - Quality D Yellow (4) Highlight for Critical Notes or Features MIS Miscellaneous Red (3) Delineates Restricted Areas - PIP Pipe Culvert - EP Edge of Paved Roads (ML or SR) (9) Temporary Pavement Shading Lavender - - - SNP Unpaved Shoulder Gray, Light (48) Proposed Pavement Shading - - - - - ENU Edge Unpaved Entrance & Parking Gray, Med (80) Proposed Granular Shading D Centerline Draw or Stream (Down) Gray, Dark (112) Proposed Grade and Pave Shading "In conjunction with a paving project" DIK Centerline of Dike or Dam <--- DU Centerline Draw or Stream (Up) Brown, Light (236) Grading Shading Tan (8) Proposed Sidewalk Shading Blue, Light (230) Proposed Sidewalk Landing Shading Pink (11) Proposed Sidewalk Ramp Shading PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS LINEWORK Design Color No. Green (2) Existing Ground Line Profile Blue (1) Proposed Profile and Annotation Magenta (5) Existing Utilities Blue, Light (230) Proposed Ditch Grades, Left Black (0) Proposed Ditch Grades, Median (14) Proposed Ditch Grades, Right Rust Reference Point Survey Line Station ▲-— —— —— Section Cor ---- Ground Line Saw Cut Guardrail Trench Drai HighTension Guardrail Sheet Pile Pavement Kerner Clear Removal Kerner Pavement Removal PLAN AND PROFILE POWESHIEK COUNTY STPN-085-1(7)--2J-79 PROJECT NUMBER SHEET NUMBER D.1 FILE NO. ENGLISH DESIGN TEAM Gustafson \ Vortherms \ Blankers

	RIGHT-OF-WAY LEGEND
Don	Proposed Right-of-Way
	riangle Existing Right of Way
e Intercept	Existing and Proposed Right-of-Way
	Easement and Existing Right-of-Way
	Easement (Temporary)
n	Easement
Cable	$\mathbb{C}/ riangle$ Access Control
	-→ <- Property Line
ring & bing Area	





	Left Side Existing 30" Culvert
	Remove 24 ft from existing culvert. Install 12 ft of pipe and apron, new sections only. Match existing flow lines and slopes.
	Reshape inlet to new culvert apron. Reshape ditches left and right of culvert.
/	Restore all roadway foreslopes to match the existing slopes.
	Take precautions to maintain the existing fiber optic cable.
	If additional sections of culvert are seperated consult with Engineer on how to proceed. Temporary shoring will likely be needed to repair the seperations.
	Right Side Existing 30" Culvert
10 m	Remove 24 ft from existing culvert. Install 12 ft of pipe and apron, new sections only. Match existing flow lines and slopes.
	Install dike, area intake, and tile to extend tile placed by property owner. Install splash basin at culvert outlet and erosion stone on the face of the dike.
1	Restore all roadway foreslopes to match the existing slopes.
-	Take precautions to maintain the existing fiber optic cable and water line.
1	If additional sections of culvert are seperated consult with Engineer on how to proceed. Temporary shoring will likely be needed to repair the seperations.
	Site Work
	Clear and grub the area bounded by the limits of construction.
1.	Dress all disturbed areas with topsoil and seeding. Spread topsoil to a minimum depth of 4^n . Quantities are estimated based on the limits of construction.
<	Remove & reinstall signs as necessary.
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-;	2J-79 SHEET NUMBER D.2



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	Proposed 24" Culver	<u>t</u>			
1	Install the new 24" construction (# ft)	roadway cul and trench	vert, part constructi	ially with trenchless .on (# ft).	
1	Maintain the existin	ng ditch ele	vation at	the inlet.	
	Relocate the existin highway ROW. Shape	ng tile outle to drain t	et into a o the new	splash basin in the culvert.	
	Remove existing dik culvert.	e, and build	d new dike	e west of new	
	Construct a rock sp the slopes just beyo	lash basin a ond the ROW	at the cul •	vert outlet. Restore	
1	Extend the existing the rock splash basi	tile at the in.	e south RC	W to an intake in	
/	Restore all roadway	foreslopes	to match	the existing slopes.	
1	Take precautions to) maintain t	he existir	ng fiber optic cable	•
	Existing 24" Culvert	2			
4 10	Plug and abandon th inlet apron and out flowable mortar.	ne existing let flume pi	24" culver rior to fi	rt. Remove the lling the pipe with	
1 1 1 1	Restore the roadway slopes, and shape th	foreslope ne north di1	to match ch to dra	the existing in to the new inlet	•
	Site Work				
	Clear and grub the construction.	area bounde	ed by the	limits of	
1 1	Dress all disturbed topsoil to a minimu based on the limits	areas with m depth of of construc	topsoil an 4″. Quan ction.	d seeding. Spread tities are estimated	I
	Remove & reinstall	signs as neo	cessary.		
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Survey Information

General Information

All measurements for this survey are in English Units (U.S. survey foot). The mainline alignment is a retrace of as-built plans FN-945. This survey was collected by the District 1 Land Survey Crew beginning 12/12/2016 and ending 1/12/2017.

District 1 Land Survey Crew consists of Lucas Weigel - Party Chief Ben Wickman - Highway Tech.

Horizontal Control Information

The project coordinate system basis for this survey is from the lowa Regional Coordinate System Zone 9 projection (U.S. Survey foot). This survey's control is dependant on the IaRTN reference stations, The IaRTN reference stations positions are derived from the NAD83 (2011) datum, Epoch 2010.00. Control point positions were established by 5 redundantly averaged RTK GPS shots utilizing the IaRTN.

Vertical Control Information

The vertical control for this project is relative to NAVD88, computed using GEIOD 12A. This survey's control is dependant on the IaRTN reference stations. The IaRTN reference stations positions are derived from the NAD83(2011) datum, Epoch 2010.00. Control point elevations were established by 5 redundantly averaged RTK GPS shots utilizing the IaRTN.

Horizontal Alignment

The horizontal alignment for this survey is a retrace of as-built plans for project FN-945. Survey stationing was equated to the plan PT at Sta. 423+35.2 and run back without equation throughout the survey.

Survey stationing relates to as-built plan stationing as follows:

PI Sta. 408+05.6 as-built plans for project FN-945 = Survey PI Sta.408+06.98

PI Sta 420+25.10 as-built plans for project FN-945 = Survey PI Sta. 420+25.02

VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Feature	Description
CP101	7687218.42	19613265.58	917.36	411+62.10	58.95' LT.	CP	SET 5/8" RE-ROD (FLUSH)
CP100	7687957.88	19614125.29	922.20	422+83.53	67.09' LT.	CP	SET 5/8" RE-ROD (FLUSH)

FILE NO.	1	ENGLISH	DESIGN TEAM Gustafson \ Vortherms \ Blankers	POWESHIEK COUNTY	PROJECT NUMBER	STPN-085-1(7)
0.0C.4C AM 2	/20/2017	to constant la se				



Poweshiek	ROW: STPN-085-1(8)2J-79				PIN	17-79	-085-	010											
	1.5 mi W of Deep River																		
			STATE		С	OUNT	Υ		CITY			BOR	ROW						
PARCEL NO.	OWNER NAME	FEE	EA	SE	FEE	EA	SE	FEE	EA	SE	EXCESS	FEE	T.E.	MITIGATION	OTHER	HOUSE	BUILDING(S)	A/C ONLY	TOTAL ACQ
1	Curt L. Bates - Fee																		
2	Marion I. Elliot - Fee																		
																		· · · ·	
2 Parcels	"TOTALS	0 AC	0 AC		0 AC	0 AC		0 AC	0 AC		0 AC	0 AC	0 AC	0 AC					
		0 SF		0 SF	0 SF		0 SF	0 SF		0 SF	0 SF								

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	Class 10 excavation required to install Rock Erosion Control is incidental and will not be paid for separately.
	Possible Contract Items: Erosion Stone Class E Revetment Engineering Fabric
[.] Slot	Possible Tabulation: 100-23
	REVISION 1 10-18-16
	STANDARD ROAD PLAN EC-301 SHEET 1 of 2 REVISIONS: Modified details for Type 3 and Type 4 installations. Deleted old note
	2 and renumbered old note 3 as note 2. Added Designer Info button.
	ROCK EROSION CONTROL (REC)
7)2	J-79 SHEET NUMBER U.2



		due la
	 Center splash basin directly under bridge Staples at 12 inch centers. 	drain.
1		REVISION
		1 10-18-16
	STANDARD ROAD PLAN	SHEET 2 of 2
	REVISIONS: Modified details for Type 3 and Type 4 installatio 2 and renumbered old note 3 as note 2. Added D	ns. Deleted old note lesigner Info button.
	APPROVED BY DESIGN METHODS ENGI	NEER
		ROL
-2.	J-/J SHEEL NUMBER U.J	



Obtain the Engineer's approval for installation locations.

1 Construct an earth fillet at the toe of the roadway foreslope for areas where a roadway ditch, silt ditch, or silt dike is not provided. This Toe Fillet is incidental to "Roadway and Borrow Excavation"

(2) Windrow of excavated and compacted silt material or deposited and compacted earth

Possible Contract Items: Silt Ditch Silt Dike Silt Basin

Possible Tabulations:

100-13 100-14 100-15

