LETTING DATE
12-15-2026

ITS INFRASTRUCTURE
ITS-080-6(550)201--25-79

POWESHIEK COUNTY

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
POWESHIEK COUNTY
ITS INFRASTRUCTURE

W of IA 21 to E of IA 21 (EB/WB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.13 of the Specifications.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

TOTAL
12
PROJECT IDENTIFICATION NUMBER
21-79-080-010
PROJECT NUMBER
ITS-080-6(550)201--25-79
R.O.W. PROJECT NUMBER
IMN-080-6(524)201-0E-79

INDEX OF SHEETS

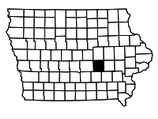
105-3
10-18-05

No.	Description
A Sheets	**Title Sheets**
A.01*	Title Sheet
A.02*	Location Map Sheet
A.03*	Legend Sheet
C Sheets	**Quantities and General Information**
C.01 - C.02	Estimated Project Quantities and Estimate Reference Information
C.03	Project Description, General Notes, and Standard Plans
C.04 - C.05*	Listing of Work
C.06	Fiber Architecture
J Sheets	**Traffic Control Notes**
J.01	Traffic Control Plan and Coordinated Operations
N Sheets	**ITS Infrastructure Sheets**
N.01* - N.02*	ITS Infrastructure Sheets

*Color Plan Sheets

Scan the QR code or click the link below to leave plan quality feedback and help us improve future projects.

Design QR Feedback Link



LICENSED PROFESSIONAL ENGINEER
GREGORY T. SEIB
23179
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Gregory T. Seib — 9-29-2026
Signature — Date

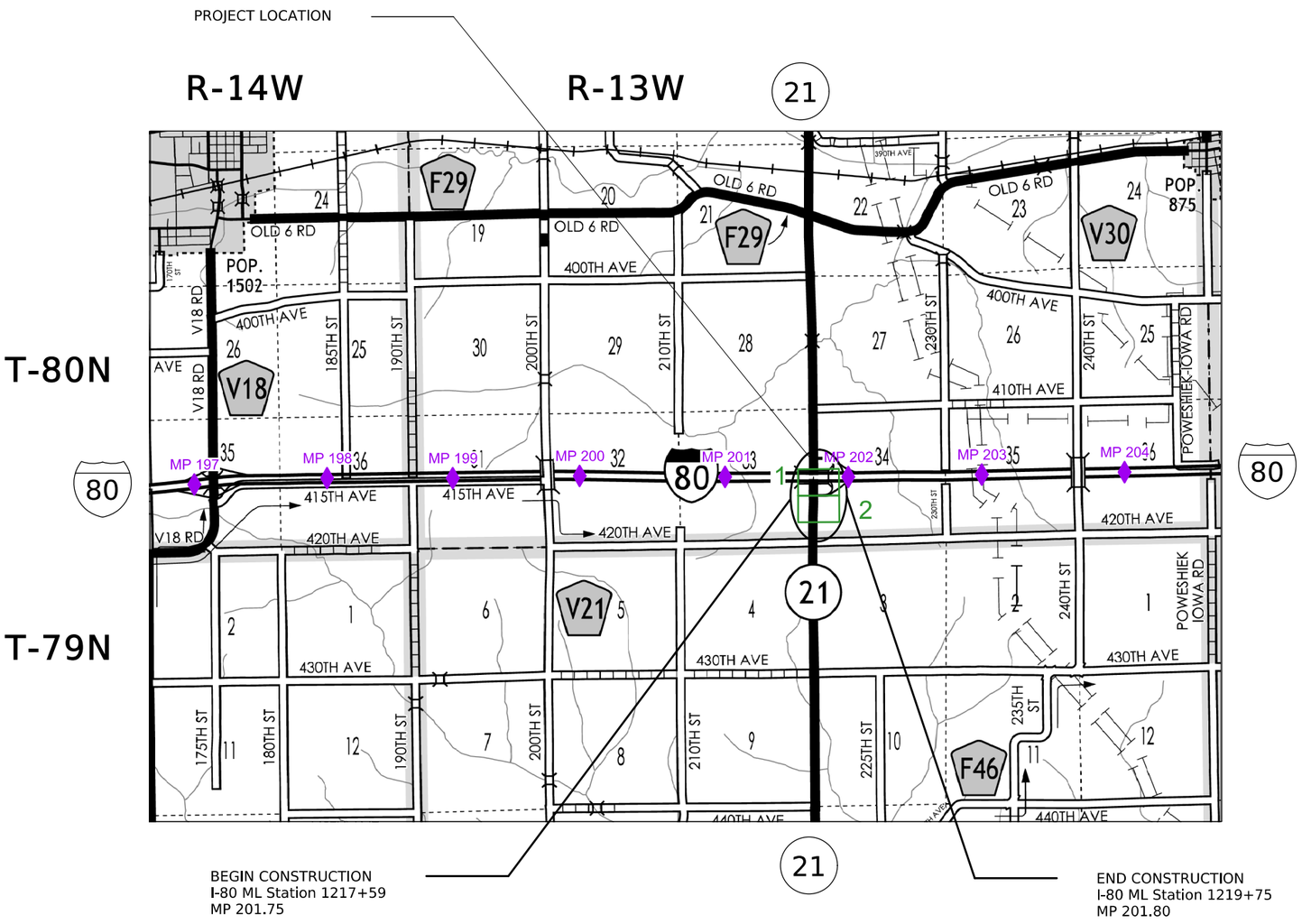
Gregory T. Seib
Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: A.01-A.03, C.01-C.06, J.01, N.01-N.02

FILE NO.	ENGLISH	DESIGN TEAM Olsson	POWESHIEK COUNTY	PROJECT NUMBER ITS-080-6(550)201--25-79	SHEET NUMBER A.01

1:42:10 PM 9/24/2026 gdungan pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7908001021\TrafficOperations\CADD_Files\Sheets_ITS Device\A Sheets\A Sheets_09-14_IDOT Border.dgn



LOCATION MAP SCALE
0 1 2 3
Miles

I–80 CORRIDOR LOCATION MAP SHEET

FILE NO.	ENGLISH	DESIGN TEAM Olsson	POWESHIEK COUNTY	PROJECT NUMBER ITS-080-6(550)201--25-79	SHEET NUMBER A.02

2:40:33 PM 9/24/2026 gdungan pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7908001021\TrafficOperations\CADD_Files\Sheets_ITS Device\A Sheets\A Sheets_09-14_IDOT Border.dgn

UNIQUE SYMBOLS FOR THIS PROJECT

EXISTING	PROPOSED	DESCRIPTIONS
		Plowed Conduit
		Bored Conduit
		Lighting Conduit (By Others)
		Handhole, 36" X 24" X 36"
		Handhole, 48" X 30" X 36"
		Lighting Handhole (By Others)
		Test Station
		Right of Way
		Lighting Pole (By Others)
		ITS Device Cabinet, Pole Mount
		Device Pole
		Camera (By Others)
LP		Locate Point

UTILITY LEGEND

PPE, TIP Rural Electric Cooperative

EL1D, TIP Rural Electric Cooperative - Quality D
Cole Calkins
612 W Des Moines St PO Box 534
Brooklyn, IA 52211
(641) 522-9221
ccalkins@tiprec.com

FO1D, Cooperative Telephone Company - Quality D

TL1D, Cooperative Telephone Company - Quality D
Scott Schabacker
704 3rd St
Victor, IA 52347
(319) 647-3131
cooptel@netins.net

FO2D, Iowa Communications Network - Quality D
Jason Dale
800 Lincoln Way
Ames, IA 50010
(515) 239-1995
Jason.Dale@iowadot.us

WL1D, Poweshiek Water Association - Quality D
Chad Coburn
125 Industrial Drive
Brooklyn, IA 52211
(641) 522-7416
chad@poweshiekwater.com

GH1D, Northern Border Pipeline - Quality D
No Contact given but is within project limits

PROJECT CONTACTS

Company	Name	Street	City, State, Zip	Phone (Office)	Phone (Mobile)	Email
IOWA COMMUNICATIONS NETWORK (ICN)	JACOB JORDAN	400 EAST 14TH STREET	DES MOINES, IA 50319			jacob.jordan@iowa.gov
IOWA DOT PROJECT MANAGER	JASON DALE	800 LINCOLN WAY	AMES, IA 50010	515-239-1995	515-291-4675	jason.dale@iowadot.us
IOWA DOT PROJECT MANAGER	MARK VAN DYKE	800 LINCOLN WAY	AMES, IA 50010		515-815-5620	mark.vandyke@iowadot.us
IOWA DOT DISTRICT 1 UTILITY PERMITS	DEANNA MCCLAIN	800 LINCOLN WAY	AMES, IA 50010	515-986-5460	515-778-3301	deanna.mcclain@iowadot.us
ITS MAINTENANCE CONTRACTOR	KELLY KING	1555 SE DELAWARE AVENUE, SUITE E	ANKENY, IA 50021	515-732-7336	515-238-3208	kking@econolite.com

–

LEGEND SHEET

ESTIMATE OF QUANTITIES

100_01A
9/20/22

Item No.	Item Code	Item	Unit	Total	As-Built Quantity
1	2518-0000010	ITS CONSTRUCTION SURVEY	LS	1	
2	2518-0000020	ITS POWER INSTALLED FOUNDATION, INSTALL ONLY	EACH	1	
3	2518-0000030	ITS STEEL POLE, INSTALL ONLY	EACH	1	
4	2518-0000055	ITS DEVICE CABINET, INSTALL ONLY	EACH	1	
5	2518-0000090	ITS HANDHOLE, 36x24x36	EACH	2	
6	2518-0000150	ITS GROUND ROD	EACH	3	
7	2518-0001125	ITS CONDUIT, HDPE, 1.25 INCH BORED	LINEAR FT	773	
8	2518-0002125	ITS CONDUIT, HDPE, 1.25 INCH PLOWED	LINEAR FT	20	
9	2518-0006006	XHHW COPPER WIRE, NO. 6 AWG	LINEAR FT	1,342	
10	2518-0006008	XHHW COPPER WIRE, NO. 8 AWG	LINEAR FT	671	
11	2518-0006015	ITS TRACER WIRE	LINEAR FT	608	
12	2518-0007012	FIBER OPTIC CABLE, 12 SM DIELECTRIC	LINEAR FT	883	
13	2518-0008355	CONNECTOR ADAPTER PANEL, SIX DUPLEX SC	EACH	1	
14	2518-0008360	SINGLE PANEL HOUSING	EACH	1	
15	2518-0008365	UPC/SC FACTORY TERMINATED FIBER CONNECTOR AND PIGTAILS	EACH	2	
16	2518-0008400	FIBER OPTIC CABLE ACCEPTANCE TESTING	LS	1	
17	2528-8445110	TRAFFIC CONTROL	LS	1	
18	2533-4980005	MOBILIZATION	LS	1	

ESTIMATE REFERENCE INFORMATION

100_04A
9/20/22

Item No.	Item Code	Description
1	2518-0000010	**ITS CONSTRUCTION SURVEY**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
2	2518-0000020	**ITS POWER INSTALLED FOUNDATION, INSTALL ONLY**
		Materials to be picked up by the Contractor at the DOT Ames Maintenance Garage. Coordinate with Jason Dale in advance at 515-239-1995. MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
3	2518-0000030	**ITS STEEL POLE, INSTALL ONLY**
		Materials to be picked up by the Contractor at the DOT Ames Maintenance Garage. Coordinate with Jason Dale in advance at 515-239-1995. MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
4	2518-0000055	**ITS DEVICE CABINET, INSTALL ONLY**
		Materials to be picked up by the Contractor at the DOT Ames Maintenance Garage. Coordinate with Jason Dale in advance at 515-239-1995. MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
5	2518-0000090	**ITS HANDHOLE, 36x24x36**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
6	2518-0000150	**ITS GROUND ROD**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
7	2518-0001125	**ITS CONDUIT, HDPE, 1.25 INCH BORED**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
8	2518-0002125	**ITS CONDUIT, HDPE, 1.25 INCH PLOWED**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
9	2518-0006006	**XHHW COPPER WIRE, NO. 6 AWG**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
10	2518-0006008	**XHHW COPPER WIRE, NO. 8 AWG**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
11	2518-0006015	**ITS TRACER WIRE**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
12	2518-0007012	**FIBER OPTIC CABLE, 12 SM DIELECTRIC**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
13	2518-0008355	**CONNECTOR ADAPTER PANEL, SIX DUPLEX SC**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
14	2518-0008360	**SINGLE PANEL HOUSING**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
15	2518-0008365	**UPC/SC FACTORY TERMINATED FIBER CONNECTOR AND PIGTAILS**
		MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
16	2518-0008400	**FIBER OPTIC CABLE ACCEPTANCE TESTING**
		Item covers bi-directional testing of active ITS camera strands after splicing and termination. MATERIALS, METHOD OF MEASUREMENT, AND BASIS OF PAYMENT refer to Iowa DOT Developmental Specifications for Intelligent Transportation Systems
17	2528-8445110	**TRAFFIC CONTROL**
		Refer to Traffic Control Plan on Sheet J.01
18	2533-4980005	**MOBILIZATION**

PROJECT DESCRIPTION

100-01D
08-15-22

ITS-080-6(550)201--25-79
PROJECT SUMMARY

ITS INFRASTRUCTURE PROJECT IN POWESHIEK COUNTY.

THIS PROJECT INVOLVES INSTALLING AN ITS POLE AND CABINET AND INSTALLING OTHER ITS INFRASTRUCTURE (CONDUIT, HANDHOLES, CABLES, ETC.) TO PROVIDE POWER AND COMMUNICATIONS TO AN ITS CAMERA.

STANDARDS

105-4
04-16-24

The following Standards apply to construction work on this project.

Number	Date	Title
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	04-18-23	Work Within 15 ft of Traveled Way (Multi-Lane)
ITS-101	10-21-25	ITS Handholes
ITS-102	10-21-25	ITS Labeling
ITS-201	10-21-25	ITS Power Installed Foundation
ITS-202	10-21-25	ITS Pole Foundation and Power Assembly
ITS-301	10-21-25	ITS Cabinet for Pole Mounting
ITS-302	10-21-25	ITS Cabinet Layout

FIBER SPLICING COORDINATION

Fiber optic splicing will be performed by others with assistance from the Contractor. Contractor shall contact Iowa Communications Network (ICN) and the Engineer for splicing work coordination once other ITS infrastructure is in place.

EROSION CONTROL (NATIVE GRASS SEEDING)

232-3C
09-28-22

Area to be seeded is estimated to be less than 1 acre. If the Contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed and mulch on the disturbed area lying 8 feet or more beyond the shoulder as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of the Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

MEDIAN CROSSOVER

253-1
09-28-22

The Contractor is prohibited from using any established or other type median crossover on this project unless specifically designated for the Contractor's use by this plan.

LISTING OF CONDUIT & CABLE WORK

Conduit Run	Location		HDPE Conduit, 1.25" Plowed	HDPE Conduit, 1.25" Bored	Fiber Optic Cable, 12 SM Dielectric	Tracer Wire	XHHW Copper, No. 6 AWG	XHHW Copper, No. 8 AWG
	From	To	LF	LF	LF	LF	LF	LF
1A	ITS POLE 1	HH 1-1	20		10	10	20	10
1B	HH 1-1	HH2		175			350	175
1C	HH 1-1	HH 2-2		380	380	380		
2A	LIGHTING POLE 2	HH2					104	52
2B	HH1	LIGHTING POLE 2					296	148
2C	LIGHTING POLE 1	HH1					164	82
2D	HH 2-1E	HH 2-2		218	218	218		
2E	LIGHTING CONTROL CABINET	LIGHTING POLE 1					408	204
		Totals	**20**	**773**	**608**	**608**	**1,342**	**671**

LISTING OF HANDHOLE WORK

Handhole Label	Handhole Type	Route	Milepost	12 SM Dielectric Fiber Coil
				LF
HH 1-1	36"x24"x36"	I-80	201.80	100
HH1	LIGHTING BY OTHERS	I-80	201.80	
HH2	LIGHTING BY OTHERS	I-80	201.80	
HH 2-1E	EXISTING	I-80	201.75	75
HH 2-2	36"x24"x36"	I-80	201.80	100
			Totals	**275**

LISTING OF WORK

SUMMARY OF FIBER OPTIC SPLICING WORK

Splice or Termination Location	Route	Milepost	Location Description	Design Sheet Number	New or Existing Splice Closure	Type of Splice	Number of 48 Strand Cables in Splice Case	Number of 12 Strand Cables in Splice Case
HH 2-1E (CS1004-1)	I-80	201.75	South side of I-80, aprox. 75 ft west of IA-21	N.02	New	Midsheath	1	1

LISTING OF FIBER WORK

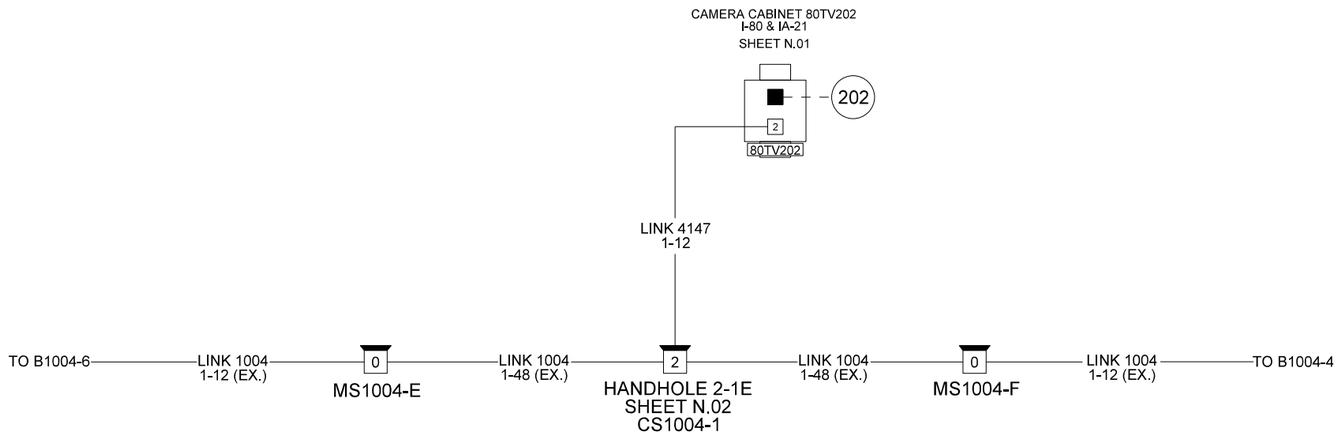
Splice or Termination Location	Fiber Optic Splice Closure*	12 Splice Tray*	Fiber Optic Splice (with Protector Sleeves)*	6 Duplex SC Connector Adaptor Panel	Single Panel Housing (Holds 1 Connector Panel with Splice Organizer)	UPC/SC Factory Terminated Fiber Connector and Pigtails (Include Splice & Protector Sleeve)
HH 2-1E (CS1004-1)	1	1	2			
80TV202 CABINET				1	1	2
TOTAL	**1**	**1**	**2**	**1**	**1**	**2**

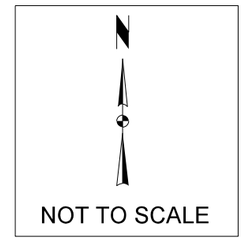
*** MATERIAL AND LABOR PROVIDED BY ICN'S SPLICING CONTRACTOR FOR NOTED ITEMS**

Cabinet #/Location — 80TV202 Camera (I-80 & IA-21 Interchange)

Fiber Terminations	END Location	Fiber Terminations	Testing Requirement	Fiber Foot Marker Length (Provided	OTDR Tested Length
2	80TV206 (I-80 & B Avenue Interchange - Exit 205)	1	Bi-directional		
1	80TV198 (South side of I-80 at Milepost 198.50)	2	Bi-directional		

NOTE:
FIBER OPTIC TERMINATIONS IN ITS DEVICE CABINET TO BE DONE BY CONTRACTOR
FIBER OPTIC SPLICING WORK IN HH 1-1E TO BE DONE BY ICN
OTDR TESTING TO BE DONE BY CONTRACTOR AFTER SPLICING AND TERMINATION IS COMPLETE





I-80

LEGEND

- XX — FIBER TERMINATION PANEL W/ NUMBER OF TERMINATIONS
- XX — SPLICE CLOSURE WITH NUMBER OF SPLICES (BY OTHERS)
- XX — CAMERA 80TVXX (BY OTHERS)
- SWITCH (BY OTHERS)
- CAT-6 CABLE (BY OTHERS)
- CAB XX — POLE MOUNT DEVICE/DMS CABINET (EXISTING)
- —XX— FIBER WITH NUMBER OF FIBER STRANDS

FIBER ARCHITECTURE

ENGLISH	IOWA DOT	DESIGN TEAM Olsson	POWESHIEK COUNTY	PROJECT NUMBER ITS-080-6(550)201--25-79	SHEET NUMBER C.06

12:17:04 PM9/24/2026 gdungan pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7908001021\TrafficOperations\CADD_Files\Sheets_ITS Device\C Sheets\C.06.dgn

TRAFFIC CONTROL PLAN

108-23A
08-01-08

1. ALL TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 2528-TRAFFIC CONTROL OF THE IOWA DOT'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, THE APPLICABLE GUIDELINES CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, IOWA SUPPLEMENTAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ANY SPECIFICATION AND HIGHWAY STANDARDS CONTAINED HEREIN AND IN THE PLANS.

2. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY LANE CLOSURES WILL NOT BE ALLOWED, EXCEPT AS PROVIDED IN NOTE 4. INTERCHANGE RAMPS SHALL REMAIN OPEN AT ALL TIMES.

3. TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE STANDARD ROAD PLANS SHOWN IN TAB 105-4 ON PLAN SHEET C.03.

4. A. INTERSTATE 80 AND ALL IOWA DOT HIGHWAYS:
   NIGHTTIME CLOSURES ONLY
   SUNDAY 9 PM - MONDAY 6 AM
   MONDAY THROUGH THURSDAY: 8 PM - 6 AM NIGHTLY.

   B. THE TIME, LENGTH, AND DURATION OF LANE CLOSURES SHALL BE AS APPROVED BY THE DOT. THE DOT AND LOCAL MUNICIPALITIES RESERVE THE RIGHT TO MODIFY THESE RESTRICTIONS TO ACCOMODATE SPECIFIC CONTRACTOR ACTIVITIES AND UNFORSEEN TRAFFIC CONDITIONS, AS WELL AS SPECIAL EVENTS.

5. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS AS DESCRIBED ON STANDARD NOTATION 111-01.

6. CONSTRUCTION TRAFFIC WILL NOT BE ALLOWED TO USE MEDIAN CROSSOVERS.

7. THE CONTRACTOR SHALL MAINTAIN A CLEAN PAVEMENT LEADING INTO AND OUT OF THE WORK AREA AT ALL TIMES.

8. ANY DISTURBED AREAS MUST BE RESTORED AND LEVEL WITH THE SURROUNDING PAVEMENT EACH NIGHT. DAYTIME DROP-OFFS SHALL NOT BE ALLOWED.

COORDINATED OPERATIONS

111-01
04-17-12

OTHER WORK IN PROGRESS DURING THE SAME PERIOD OF TIME WILL INCLUDE THE CONSTRUCTION OF THE PROJECTS LISTED. COORDINATE OPERATIONS WITH THOSE OF OTHER CONTRACTORS WORKING WITHIN THE SAME AREA.

PROJECT	TYPE OF WORK
IM-080-6(518)202--13-79	LIGHTING
IM-NHS-080-6(519)201--03-79	PCC PAVEMENT
IM-080-6(520)201--13-79	TRAFFIC SIGNS
IM-080-6(521)202--13-79	LIGHTING
IM-NHS-080-6(522)202--03-79	BRIDGE REPLACEMENT

N

0 50
FEET

1215+00
1216+00
1217+00
1218+00
1219+00
1220+00
1221+00
1222+
1048+00
1047+00
1046+00
1045+00
1044+00
1043+00
2515+00
2516+00
2517+00
2518+00
2519+00
4521+00
4522+00

I-80 WB
I-80 EB
IA-21
MP 201.8

ITS POLE 1 - MP 201.80
INSTALL POLE AT STAKED LOCATION (APPROX STA. 1219+40, 97' RT)
1 EA. ITS POWER INSTALLED FOUNDATION, INSTALL ONLY
1 EA. ITS STEEL POLE, INSTALL ONLY
1 EA. ITS DEVICE CABINET, INSTALL ONLY
3 EA. ITS GROUND ROD
1 EA. SINGLE PANEL HOUSING
1 EA. CONNECTOR ADAPTOR PANEL, SIX DUPLEX SC
2 EA. UPC/SC FACTORY TERMINATED FIBER CONNECTOR & PIGTAILS
TERMINATE POWER IN CABINET

(1A)
10' from ITS POLE 1 to HH 1-1
2 - ITS CONDUIT, HDPE, 1.25 INCH PLOWED
CONDUIT 1:
1 - FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)
1 - ITS TRACER WIRE
CONDUIT 2:
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

HANDHOLE HH 1-1 - MP 201.80
STA. 1219+42, 109' RT.
1 EA. ITS HANDHOLE, 36x24x36
100' COIL OF FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)

CAMERA 80TV202
(BY OTHERS)

ABANDONED ICN 12F
OLD LINK 1004

ABANDONED 2" IOWA DOT CONDUIT
ABANDONED (2) #10 POWER
ABANDONED #10 GROUND
ABANDONED TRACER WIRE
ABANDONED FIBER OPTIC CABLE, 12 SM

(1B)
175' from HH 1-1 to HH2
1 - ITS CONDUIT, HDPE, 1.25 INCH BORED
NOTE: BORE MINIMUM 5' BELOW BOTTOM
OF CULVERT
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

LIGHTING POLE 3 (BY OTHERS)

(1C)
380' from HH 1-1 to HH 2-2
1 - ITS CONDUIT, HDPE, 1.25 INCH BORED
NOTE: BORE MINIMUM 5' BELOW BOTTOM
OF CULVERT
BORE MIN. 5' DEPTH UNDER RAMP D
1 - FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)
1 - ITS TRACER WIRE

MATCH LINE SHEET N.02

ITS INFRASTRUCTURE
I–80 CORRIDOR

ENGLISH	IOWA DOT	DESIGN TEAM	Olsson	POWESHIEK	COUNTY	PROJECT NUMBER	ITS-080-6(550)201--25-79	SHEET NUMBER	N.01

4:23:20 PM 9/29/2026 gselb pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7908001021\TrafficOperations\CADD_Files\Sheets_ITS Device\N Sheets\N.01.dgn

MATCH LINE SHEET N.01

I-80 EB Off-Ramp (Ramp B)

I-80 EB On-Ramp (Ramp D)

IA-21

11043+00

11041+00

11040+00

11039+00

(1B)
175' from 1-1 to HH2
1 - ITS CONDUIT, HDPE, 1.25 INCH BORED
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

HANDHOLE HH2 - MP 201.80
STA. 4519+31, 37' LT.
LIGHTING HANDHOLE (BY OTHERS**)

(2A)
52' from LIGHTING POLE 2 to HH2
2" CONDUIT (BY OTHERS**)
LIGHTING CIRCUITS (BY OTHERS**)
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

LIGHTING POLE 2 (BY OTHERS**)

(2B)
148' from HH1 to LIGHTING POLE 2
2" CONDUIT (BY OTHERS**)
LIGHTING CIRCUITS (BY OTHERS**)
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

(2C)
82' from LIGHTING POLE 1 to HH1
2" CONDUIT (BY OTHERS**)
LIGHTING CIRCUITS (BY OTHERS**)
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

LIGHTING POLE 1 (BY OTHERS**)

(1C)
380' from HH 1-1 to HH 2-2
1 - ITS CONDUIT, HDPE, 1.25 INCH BORED
BORE MIN. 5' DEPTH UNDER RAMP D
1 - FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)
1 - ITS TRACER WIRE

HANDHOLE HH 2-1E - MP 201.75
STA. 2517+96, 120' RT.
EXISTING ITS HANDHOLE, 48x30x36
EXISTING ITS TEST STATION
EXISTING ITS GROUND ROD
EXISTING 152' COIL OF 48 SM ARMORED FIBER (LINK 1004)
W: 5876
E: 6028
75' COIL OF FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)
FIBER OPTIC SPLICE CLOSURE (CS1004-1) - (BY OTHERS*)

ABANDONED 2" IOWA DOT CONDUIT
ABANDONED (2) #10 POWER
ABANDONED #10 GROUND
ABANDONED TRACER WIRE
ABANDONED FIBER OPTIC CABLE, 12 SM (LINK 4147)

EXISTING 2" HDPE CONDUIT
EXISTING 48 SM ARMORED FIBER (LINK 1004)

HANDHOLE HH1 - MP 201.80
STA. 4518+33, 99' RT.
LIGHTING HANDHOLE (BY OTHERS**)

HANDHOLE HH 2-2 - MP 201.80
STA. 4519+07, 164' RT.
1 EA. ITS HANDHOLE, 36x24x36
100' COIL OF FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)

EXISTING DIRECT BURIED FIBER OPTIC CABLE
EXISTING 48 SM ARMORED FIBER (LINK 1004)

(2E)
204' from LIGHTING CONTROL CABINET to LIGHTING POLE 1
2" CONDUIT (BY OTHERS**)
LIGHTING CIRCUITS (BY OTHERS**)
2 - XHHW COPPER, NO. 6 AWG
1 - XHHW COPPER, NO. 8 AWG (GROUND)

(2D)
218' from HH 2-1E to HH 2-2
1 - ITS CONDUIT, HDPE, 1.25 INCH BORED
BORE MIN. 5' DEPTH UNDER IA-21
1 - FIBER OPTIC CABLE, 12 SM DIELECTRIC (LINK 4147)
1 - ITS TRACER WIRE

STA. 2518+28, 294' RT.
POLE MOUNTED LIGHTING CONTROL CABINET (BY OTHERS**)
T.I.P. ELECTRICAL COOP METER (BY OTHERS**)
TERMINATE POWER AT 120V BREAKER LABELED "ITS DEVICE CABINET"

ABANDONED 2" IOWA DOT CONDUIT
ABANDONED IOWA DOT 12F

ABANDONED ICN 12F

ABANDONED HANDHOLE, TYPE FOR27

NOTE:
* WORK TO BE COMPLETED BY ICN SPLICING CONTRACTOR
** WORK TO BE COMPLETED WITH (518) LIGHTING PLAN

N

0 50
FEET

ITS INFRASTRUCTURE
I-80 CORRIDOR

ENGLISH	IOWA DOT	DESIGN TEAM	Olsson	POWESHIEK	COUNTY	PROJECT NUMBER	ITS-080-6(550)201--25-79	SHEET NUMBER	N.02

4:31:07 PM 9/29/2026 gselb pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7908001021\TrafficOperations\CADD_Files\Sheets_ITS Device\N Sheets\N.02.dgn