

# BOARD OF SUPERVISORS MEETING

## Meeting Notice

Tama County Board of Supervisors

Mon., Mar. 30, 2026

Meetings may also be available online for viewing and/or participating in by clicking the below link barring no power, internet, or equipment failure or other unforeseen circumstances. Meetings will still be held if there is no electronic availability.

[Click here to join meeting](#)

### Agenda Schedule

\*\* Agenda is not printed in any particular order, only time specific items will be addressed at certain times

8:30AM

Call to Order, Pledge of Allegiance

Approve agenda

Public comments-This time is set aside for public comments on County business topics. To be recognized raise your hand or stand. After recognition by the Chair, state your name and address. You may speak one time per issue. If the comment is for an item not on the agenda, please understand the Board of Supervisors will not act on your comments at this meeting due to the Open Meetings Law requirements but may do so at a future board meeting by placing it on the agenda. The Chair and Board members welcome comments from the public; however, all comments must be directed to the board and not others in attendance; keep your comments germane; it is not appropriate to use profane, obscene, or slanderous language. No personal attacks will be allowed. The Chair may limit each speaker to three minutes.

Discuss/Approve 3/23/26 special and regular minutes

Engineer-road projects report

Discussion/possible action on Utility Permit for Olsson on behalf of MidAmerican Energy

Discussion/possible action on Utility Permit for Windstream Iowa Communications

Discussion/possible action on Rumble/Mumble Panels on T47

Discussion/possible action to approve Resolution 3-30-2026A approving elected officials salary adjustments for FY27

Discussion/possible action on Resolution 3-30-2026B Budget Director Wages

Discussion/possible action to approve non-elected and non-union employee pay increases for FY27

Discussion/possible action to approve union employee pay increases for FY27

Discussion/possible action to set public hearing date and time for proposed FY27 budget

Discussion/approve claims

New Business:

Discussion/possible action: Supervisor reports

Public comments

Adjourn

Budget Work Session

10:30 AM

Work Session regarding Home Health

**Board of Supervisors Minutes**  
**March 23, 2026**

The Tama County Board of Supervisors met at 8:15 a.m. March 23, 2026, for a special meeting to hold a public hearing regarding the proposed property tax levies for FY27. Present: 1st District Supervisor, Curt Hilmer; 2nd District Supervisor, David Turner; 3rd District Supervisor, Heather Knebel and 4th District Supervisor, Mark Doland. Also, Tama County Auditor, Karen Rohrs, and members of the public. 5th District Supervisor, Curt Kupka, joined the meeting at 8:20 am.

Motion by Turner, seconded by Knebel to approve the agenda. Discussion: None. All voted aye. Motion carried.

Motion by Knebel, seconded by Turner to open the public hearing at 8:15 am. Roll Call Vote: Hilmer, aye. Knebel, aye. Doland, aye. Turner, aye. The board held a public hearing regarding the proposed property tax levies that can be levied for FY27 property taxes. There were no written public comments. There were public comments heard at the hearing from the public asking how the levies would affect their property taxes. Motion by Knebel, seconded Turner to close the public hearing at 8:39 am. Roll Call Vote: Hilmer, aye. Knebel, aye. Doland, aye. Kupka, aye. Turner, aye. The state lowered the county's max asking levy rates for the next fiscal year. The county's levy rates for FY27 will be lower than this current fiscal year's rates. The proposed rates are 8.23061 for urban and 11.93970 for rural.

Motion by Kupka, seconded by Turner to approve the proposed property tax levies for FY27 of 8.23061 for urban and 11.93970 for rural. Discussion: None. All voted aye. Motion carried.

Motion by Knebel, seconded by Kupka to adjourn the meeting. All voted aye. Motion carried. Chairman Doland adjourned the meeting at 8:41 am.

These minutes are intended to provide a summary of the discussions and decisions made during the Board of Supervisor meeting. For the most accurate and comprehensive record, please refer to the audio recording of the meeting that can be provided upon request at the auditor's office.

**Board of Supervisors Minutes**  
**March 23, 2026**

The Tama County Board of Supervisors met at 8:41 a.m. March 23, 2026. Present: 1st District Supervisor, Curt Hilmer; 2nd District Supervisor, David Turner; 3rd District Supervisor, Heather Knebel; 4th District Supervisor, Mark Doland and 5th District Supervisor, Curt Kupka. Also, Tama County Auditor, Karen Rohrs, and members of the public.

The Pledge of Allegiance was recited.

Motion by Turner, seconded by Kupka to approve the agenda. Discussion: None. All voted aye. Motion carried.

Public Comments: Public comments were heard from Richard Arp, Mike Sawyer, and Karen Murty. Public comment time closed at 8:59 am.

Motion by Knebel, seconded by Hilmer to approve the minutes of the March 16<sup>th</sup> regular meeting. Discussion: None. All voted aye. Motion carried.

Supervisor Kupka gave a roads project report.

Motion by Turner, seconded by Kupka to approve the claims for payment as presented in the amount of \$86,156.94. Discussion: None. All voted aye. Motion carried.

New Business: Supervisor Turner stated that the county IT is testing a Ninjaone ticketing system. He also stated he has cancelled SCI phone service, but that there will most likely be a severance bill. He also informed the Board that he had cancelled all Windstream contracts except for the two still needed for 911. Supervisor Hilmer reported back on the Aging Council meeting he had been to. They had discussed distributing money to each individual community to provide meals on wheels. Supervisors Knebel and Doland informed the Board that most of their meetings are this week.

Public Comments: Public comments were heard from Karen Murty and Mike Sawyer. Public comment time closed at 9:14 am.

Motion by Hilmer, seconded by Kupka to adjourn the meeting. All voted aye. Motion carried. Chairman Doland adjourned the meeting at 9:14 am.

These minutes are intended to provide a summary of the discussions and decisions made during the Board of Supervisor meeting. For the most accurate and comprehensive record, please refer to the audio recording of the meeting that can be provided upon request at the auditor's office.

## TAMA COUNTY UTILITY PERMIT APPLICATION

This is a Utility Permit Application for telecommunications, electric, gas, water and sewer utilities. The applicant agrees to comply with the following permit requirements. Compliance shall be determined by the sole discretion of the County Engineer as deemed necessary to promote public health, safety and the general welfare. These requirements shall apply unless waived in writing by the County Engineer prior to installation.

Applicant Name: Olsson on behalf of MidAmerican Energy

Street Address: 4299 NW Urbandale Dr

City, State & Zip Code: Urbandale IA 50322

Telephone Number: 515-202-8848

Contact Person: Nate Gibson

1. **Location Plan.** An applicant shall file a completed location plan as an attachment to this Utility Permit Application. The location plan shall set forth the location of the proposed line on the secondary road system and include a description of the proposed installation.
2. **Written or Verbal Notice.** At least two working days prior to the proposed installation, an applicant shall file with the County Engineer a notice stating the time, date, location and nature of the proposed installation.
3. **Inspection.** The County Engineer shall provide a full-time inspector during all permitted work done by a third party contractor. The inspector shall have the right, during reasonable hours and after showing proper identification, to enter any installation site in the discharge of the inspector's official duties, and to make any inspection or test that is reasonably necessary to protect the public health, safety and welfare. The cost of providing this inspection service shall be paid by the permit holder upon submission by Tama County of a bill for such services. All requirements listed in 4. **Requirements** shall be met (less written exemptions) regardless of whom actually performs the work.
4. **Requirements.** The installation inspector shall assure that the following requirements have been met:
  - A) Construction signing shall comply with the Manual on Uniform Traffic Control Devices.
  - B) Depth – The minimum depth of cover shall be as follows:

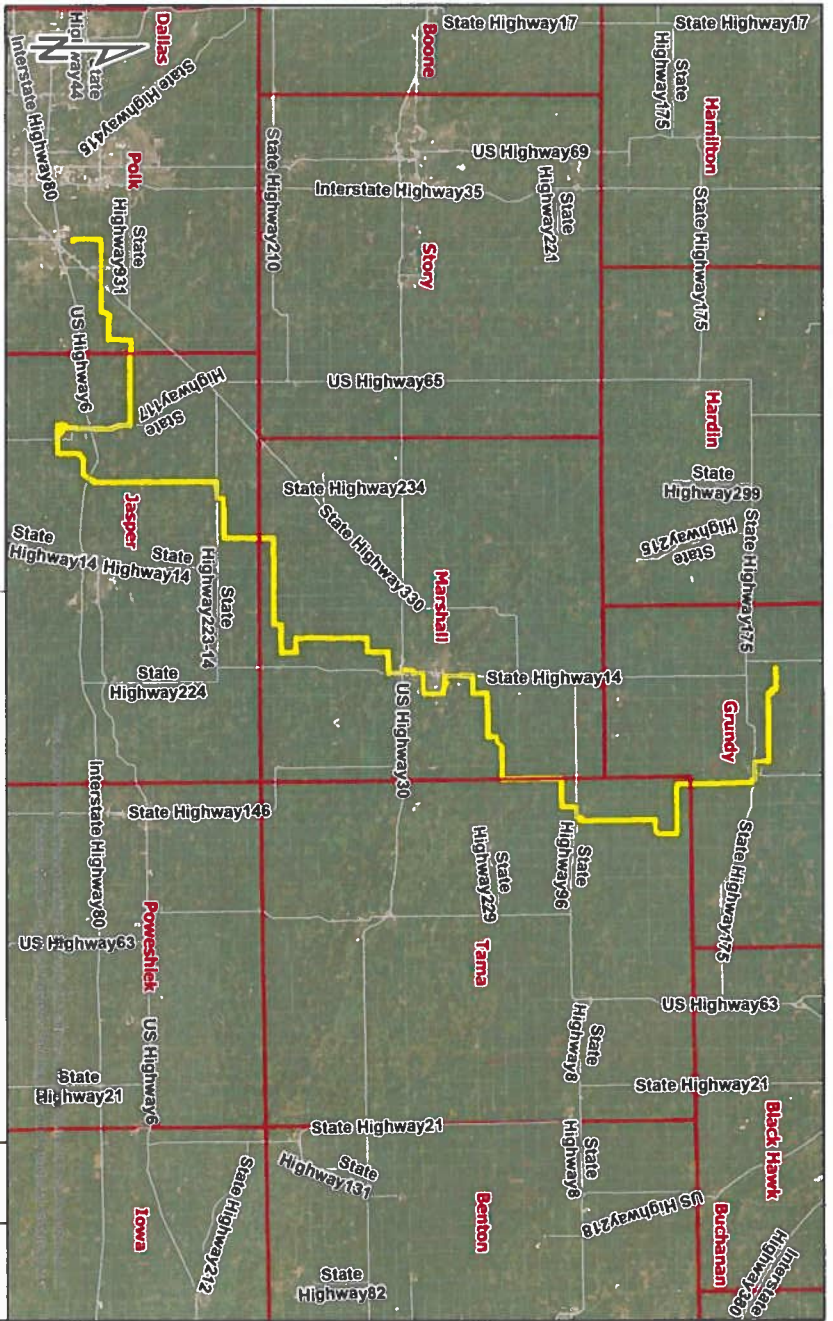
Telecommunications....36"	Electric.....48"	
Gas.....48"	Water.....60"	Sewer.....60"

If the utility is installed in the road ditch and if the ditch has silted in above the original flowline, add the depth of silting to the "minimum depth" to obtain the required depth in a particular location.
  - C) The applicant shall use reference markers in the right of way ("R.O.W.") boundary to locate line and changes in alignment as required by the County Engineer. A permanent warning tape shall be placed one (1) foot above all underground utility lines.
  - D) All tile line locations shall be marked with references located in the R.O.W. line.
  - E) No underground utility lines shall cross over a crossroad drainage structure.
  - F) Residents along the utility route shall have uninterrupted access to the public roads. An all-weather access shall be maintained for residents adjacent to the project.
  - G) A joint assessment of the road surfacing shall be made by the applicant and the County Engineer both before and after construction. After construction, granular surfacing shall be added to the road by the applicant to restore the road to its original condition. After surfacing has been applied, the road surface shall be reviewed by the County Engineer (after the road has been saturated), to determine if additional surfacing on the roadway by the applicant is necessary.





# MidAmerican Energy Rural Broadband Central 1



PRIOR TO CONSTRUCTION  
CALL 811 FOR LOCATION OF UNDERGROUND TELEPHONE,  
ELECTRIC GAS MAINS, CABLE TELEVISION AND COUNTY  
UTILITIES  
NOTE: EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND  
DRAINAGE STRUCTURES AND EASEMENT BOUNDARIES HAVE  
BEEN PLOTTED FROM AVAILABLE GIS INFORMATION AND  
THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED  
APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE  
INDIVIDUAL CONTRACTORS TO EXACTLY LOCATE AND PROTECT  
EACH EXISTING UTILITY BEFORE AND DURING ACTUAL  
CONSTRUCTION.

**IOWA**  
**ONE CALL**

### SUMMARY OF QUANTITIES

Item	Unit	Total	Total
2" HOPE SDR 13.5, ORANGE	LF	116,647	
2" HOPE SDR 11, ORANGE	LF	15,100	
1.25" HOPE SDR 11, ORANGE	LF	500,032	
MEC ASSIST HANDHOLE (24x36x24)	EACH	145	
MEC SPLICE AND INTERCONNECT HANDHOLE (30x48x24)	EACH	54	
96 CT ARMORED FIBER CABLE (LINEAR FOOTAGE AND SLACK STORAGE)	LF	661,330	
96 CT DIELECTRIC FIBER CABLE (LINEAR FOOTAGE AND SLACK STORAGE)	LF	2,101	
FIBER MARKER POSTS	EACH	580	
72Z RHINO TRI-VIEW TEST STATION W/ WOOD POST & MEC WARNING SIGN	EACH	46	

### DESIGN AS-BUILT

SHT. NO.	DESCRIPTION
A.01	COVER
A.02	PROJECT CONTACTS AND PERMIT DETAILS
B.01	GENERAL NOTES AND DETAILS
D.01-D.07	SUBSTATION DETAIL SHEETS
C.01-C.06	COUNTY OVERVIEWS
F.01-F.286	OSP FIBER DESIGN

90 PERCENT REVIEW (IFR)	INITIALS	MRU
DATE	9/13/2024	
APPROVED FOR CONSTRUCTION	INITIALS	MRU
DATE	11/25/2025	
REVISION 1	INITIALS	
DATE		
REVISION 2	INITIALS	
DATE		
ASBUILT	INITIALS	
DATE		

**PROJECT COORDINATION CONTACTS**

NAME	AGENCY	PHONE NUMBER	EMAIL
RYAN MEINTS	OLUSSON	402-310-6697	<a href="mailto:RMEINTS@OLUSSON.COM">RMEINTS@OLUSSON.COM</a>
JASON HOLTERMANN	MIDAMERICAN ENERGY	224-769-0327	<a href="mailto:jholtermann@pfe.com">jholtermann@pfe.com</a>
GARY MAUER	GRUNDY COUNTY	319-824-6912	<a href="mailto:gary.mauer@grundycountyiowa.gov">gary.mauer@grundycountyiowa.gov</a>
BEN DALESKE	TAMA COUNTY	641-484-3341	<a href="mailto:bdaleske@tamacounty.org">bdaleske@tamacounty.org</a>
PAUL GEILENFELD	MARSHALL COUNTY	641-754-6343	<a href="mailto:engineer@marshallcountyia.gov">engineer@marshallcountyia.gov</a>
MICHAEL FRIETSCH	JASPER COUNTY	641-792-5862	<a href="mailto:mfrietsch@jasperia.org">mfrietsch@jasperia.org</a>
ADMINISTRATION OFFICE	POLK COUNTY	515-286-3000	N/A
CITY ADMINISTRATION	CITY OF LINCOLN	319-823-0679	<a href="mailto:cityoflincoln121@gmail.com">cityoflincoln121@gmail.com</a>
CITY ADMINISTRATION	CITY OF GRUNDY CENTER	319-825-6118	
CITY ADMINISTRATION	CITY OF GLADBROOK	641-473-2582	
	CITY OF GREEN MOUNTAIN		
HEATHER THOMAS	CITY OF MARSHALLTOWN	641-754-5734	<a href="mailto:hthomas@marshalltown-ia.gov">hthomas@marshalltown-ia.gov</a>
CITY HALL	CITY OF HAVERHILL	641-475-3410	<a href="mailto:cityofhaverhillia@gmail.com">cityofhaverhillia@gmail.com</a>
CITY HALL	CITY OF BAXTER	641-227-3120	<a href="mailto:city@baxter-iowa.com">city@baxter-iowa.com</a>
WADE WAGONER	CITY OF COLFAX		<a href="mailto:administrator@colfaxia.gov">administrator@colfaxia.gov</a>
CITY HALL	CITY OF VALERIA	515-689-0201	<a href="mailto:cityofvaleria@yahoo.com">cityofvaleria@yahoo.com</a>
	CITY OF SANTIAGO		
MARKETA OLIVER	CITY OF BONDURANT	515-967-2418	<a href="mailto:moliver@cityofbondurant.com">moliver@cityofbondurant.com</a>
SEAN PASSICK	IOWA DOT	515-986-5476	<a href="mailto:SEAN.PASSICK@IOWADOT.US">SEAN.PASSICK@IOWADOT.US</a>
KRIS JONES	UNION PACIFIC RAILROAD	402-544-8553	
TBD	IOWA INTERSTATE RAILROAD	319-298-5400	
THOMAS CORRELL	NORTHERN NATURAL GAS	402-398-7715	<a href="mailto:THOMAS.CORRELL@NNGCO.COM">THOMAS.CORRELL@NNGCO.COM</a>
	TC ENERGY	855-458-6715	<a href="mailto:PUBLIC.AWARENESS@TCENERGY.COM">PUBLIC.AWARENESS@TCENERGY.COM</a>
ANDREW HESSELINK	ALLIANT ENERGY	608-458-4467	<a href="mailto:ANDREWHESELINK@ALLIANTENERGY.COM">ANDREWHESELINK@ALLIANTENERGY.COM</a>
ROYCE HOEMANN	NUSTAR ENERGY	880-879-0033	<a href="mailto:ROYCE.HOEMANN@NUSTARENERGY.COM">ROYCE.HOEMANN@NUSTARENERGY.COM</a>
TBD	DAKOTA ACCESS PIPELINE	877-795-7271	<a href="mailto:DOTCOMPLIANCE_MAILBOX@ENERGYTRANSFER.COM">DOTCOMPLIANCE_MAILBOX@ENERGYTRANSFER.COM</a>
TBD	FLINT HILLS RESOURCES	316-828-6098	<a href="mailto:PIPELINESAFETY@FHR.COM">PIPELINESAFETY@FHR.COM</a>
BOB MILLER	MAGELLAN MIDSTREAM PARTNERS	918-574-7393	<a href="mailto:BOB.MILLER@MAGELLANI.PCOM">BOB.MILLER@MAGELLANI.PCOM</a>

**PERMITS REQUIRED**

SHT. NO.	DESCRIPTION
F.252B-F.286B	GRUNDY COUNTY
F.205A-F.252B	TAMA COUNTY
F.104B-F.213A	MARSHALL COUNTY
F.30A-F.104A	JASPER COUNTY
F.01A-F.30A	POLK COUNTY
F.238A-F.241B	CITY OF LINCOLN
F.260B-F.271A	CITY OF GRUNDY CENTER
F.219B-F.226A	CITY OF GLADBROOK
F.195A-F.200A	CITY OF GREEN MOUNTAIN
F.148B-F.182A	CITY OF MARSHALLTOWN
F.134B-F.136A	CITY OF HAVERHILL
F.88B-F.94A	CITY OF BAXTER
F.48B-F.54A	CITY OF COLFAX
F.32B-F.33A	CITY OF VALERIA
	CITY OF SANTIAGO
F.07A-F.20A	CITY OF BONDURANT
F.11B, F.15B, F.41A-F.51B, F.59B, F.68B-F.69A, F.87A-F.90B	IOWA DOT HWY. 14, 175, 96, 65, 117, 945, 6
F.169B, F.175A, F.166A,	UNION PACIFIC RAILROAD
F.51A	IOWA INTERSTATE RAILROAD
F.71B, F.41A	DAV-L-ETCO OPERATIONS MAN
F.06B,	
F.25A, F.26A, F.37A, F.42B, F.48B, F.73A, F.191A, F.215B, F.282A, F.286A	NORTHERN NATURAL GAS
F.191A-F.194A	ALLIANT ENERGY
F.192B	NUSTAR ENERGY
F.06A	FLINT HILLS RESOURCES
F.06A	MAGELLAN MIDSTREAM PARTNERS
	US INTERSTATE 80, 30

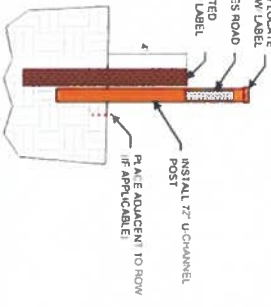
**GENERAL PROJECT NOTES:**

- THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES MAY NOT BE INDICATED ON THESE PLANS. BEFORE ANY UNDERGROUND UTILITY WORK IS BEGUN, THE CONTRACTOR SHALL OBTAIN THE RECORD DRAWINGS FROM THE CITY ENGINEER'S OFFICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UNDERGROUND AND AERIAL UTILITIES AND CONSTRUCTIONS.
- REQUIREMENTS
  - DEPTH THE UTILITY INSPECTOR SHALL MONITOR THE MINIMUM DEPTH OF COVER
 

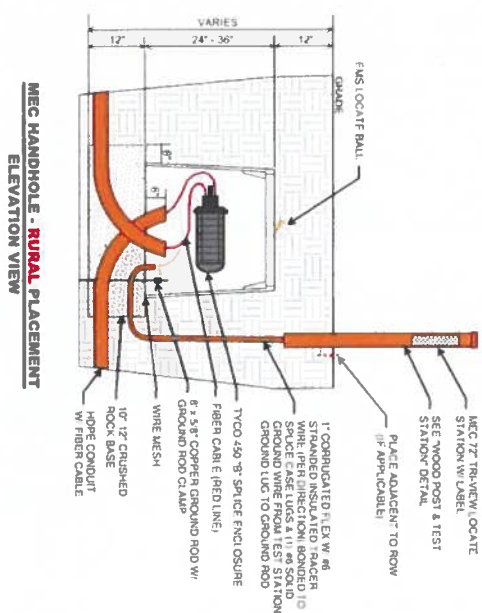
COMMUNICATIONS	42"	ELECTRIC	48"
WATER OR SEWER	60"	GAS	48"
DRAINAGE TILE	24"		
  - FORTY TWO (42) INCHES BELOW A PROJECTED SLOPE FROM THE FLOW LINE OF A DITCH AT A THREE (3) HORIZONTAL AND ONE (1) VERTICAL SLOPE
  - FORTY EIGHT (48) INCHES UNDER PAVEMENT MEASURED FROM THE SURFACE OF SAID PAVEMENT TO THE TOP OF THE INSTALLATION.
  - TEN (10) FEET UNDER A STORM WATER OR CREEK CHANNEL FROM BOTTOM OF FLOW LINE DEPTHS UNDER RIVERS MAY BE DESIGNED AT A DEEPER DEPTH, SEE PLANS FOR SPECIFIC DEPTH AND MAINTAIN A MINIMUM OF 24" OF VERTICAL & HORIZONTAL SPACING FROM EXISTING UTILITIES
  - THE APPLICANT SHALL USE REFERENCE MARKERS WITHIN THE RIGHT-OF-WAY TO LOCATE LINE AND CHANGES IN ALIGNMENT, AS WELL AS THE LINE LOCATIONS. A PERMANENT WARNING TAPE SHALL BE PLACED ONE (1) FOOT ABOVE ALL UNDERGROUND UTILITY LINES
  - RESIDENTS ALONG THE UTILITY ROUTE SHALL HAVE UNINTERRUPTED ACCESS TO THE PUBLIC ROADS
  - THE APPLICANT AND ROAD DEPARTMENT REPRESENTATIVE SHALL MAKE A JOINT ASSESSMENT OF THE ROAD SURFACING BEFORE AND AFTER CONSTRUCTION. THE APPLICANT SHALL APPLY GRANULAR SURFACING TO RESTORE THE ROAD TO ORIGINAL CONDITION. ANY DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL CONDITION. THE CONSTRUCTION WORK THAT IS PERFORMED BY THE COUNTY WILL BE ASSESSED TO THE APPLICANT
  - UTILITY LINES HAVING AN INSIDE DIAMETER OF MORE THAN 2" WHICH CROSS BENEATH A PAVED ROADWAY SHALL BE PLACED WITHIN APPROVED CASINGS. CABLE CASINGS MAY BE PLACED THROUGH THE SUBGRADE BY MEANS OF TRENCHING OR OTHER APPROVED METHODS. THE CASINGS WILL BE ASSESSED TO THE APPLICANT
  - PLACING MAY BE ALLOWED ON UNPAVED ROADS WHERE AN OPEN TRENCH IS REQUESTED OR REQUIRED. BACKFILLING SHALL BE COMPLETED IN LAYERS OF 6" OR LESS TO AVOID SETTLEMENT. SHOULDER LINE AND RIGHT-OF-WAY LINE SHALL BE TRENCHED
  - ANY EXCAVATION, TRENCHING, OR BURNING WITHIN THE RIGHT-OF-WAY FROM NOVEMBER 15-MARCH 15 MAY CAUSE EXCESSIVE DISTURBANCE TO THE ROADWAY AND THEREFORE WILL BE SUSPENDED ON A CASE-BY-CASE BASIS DEPENDING UPON THE WEATHER. APPROVAL MAY BE OBTAINED FROM THE APPLICANT
  - OVERHEAD UTILITIES SHALL BE LOCATED TWO (2) FEET INSIDE THE R.O.W. LINE VERTICAL CLEARANCE OVER ROADWAYS SHALL BE A MINIMUM OF EIGHTEEN (18) FEET MEASURED AT THE CENTERLINE OF THE ROADWAY. ANY OVERHEAD PROBLEMS WITH CROSS ARMS MUST BE ADDRESSED BY THE UTILITY
  - CONSTRUCTION SIGNING SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL WORK SHALL CONFORM TO THE IOWA DEPARTMENT OF TRANSPORTATION CONSTRUCTION MANUAL, STATEWIDE URBAN DESIGN STANDARDS (SUDS), ASHTO ROADSIDE DESIGN GUIDE, AND CRITERIA SET FORTH THEREIN
  - ALL EQUIPMENT SHALL BE REMOVED FROM THE RIGHT-OF-WAY BETWEEN THE HOURS OF 30 MINUTES BEFORE SUNSET TO 30 MINUTES AFTER SUNRISE
  - ALL POTHOLES IN SIDEWALK PANELS WILL REQUIRE FULL PANEL REPLACEMENT
  - ANY CUT OR POT HOLE IN A CONCRETE STREET'S PANEL WILL REQUIRE FULL PANEL REPLACEMENT
  - ANY CUT OR POT HOLE IN AN ASPHALT STREET LANE WILL REQUIRE SEAM TO SEAM ASPHALT MILLING AND REPLACEMENT.

**HANDHOLE GENERAL NOTES**

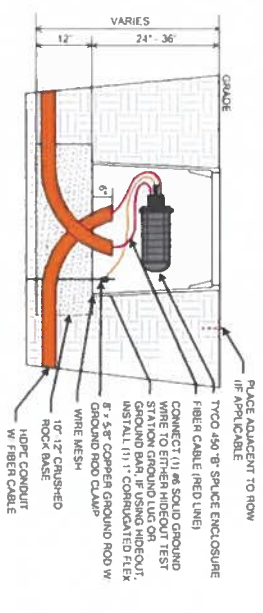
- HANDHOLES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS
- ALL HANDHOLE COVERS SHALL HAVE AN APPROVED ANTI SKID PATTERN.
- HANDHOLES SHALL REST FIRMLY ON A BED OF AT LEAST 4" OF 1/2" SAND. THE HANDHOLE EXTENDING AT LEAST 3" BEYOND THE OUTSIDE EDGES OF THE PULL BOX.
- DO NOT INSTALL LID BOLTS
- ALL DUCT TERMINAL ENDS IN HANDHOLES SHALL BE SEALED AGAINST ENTRY OF MOISTURE BY DUCT PLUGS AND OR DUCT SEAL.
- ALL LIDS SHALL BE LABELED FIBER OPTIC
- NO CONDUIT CAN ENTER THROUGH SIDE WALL OF HANDHOLE. THEY MUST ENTER FROM THE BOTTOM AND THE HANDHOLE CANNOT REST ON TOP OF THE CONDUIT
- HANDHOLES SHALL BE SPACED TO ALLOW SUFFICIENT LENGTH (75) OF CABLE AT EACH END OF THE REEL TO BE COILED IN THE HAND HOLE
- HANDHOLES IN URBAN AREAS SHALL BE FLUSH MOUNTED. WHILE HANDHOLES IN RURAL AREAS SHALL BE BURIED SUCH THAT THE LID IS 12" BELOW GRADE. FLUSH MOUNTING IN RURAL AREAS MAY BE NECESSARY IF REQUIRED BY PERMITTING AGENCY
- HANDHOLES IN URBAN AREAS AND ALL SPURCE HANDHOLES SHALL BE POLYMER CONCRETE (QUAZITE). HAND HOLES FOR SLACK STORAGE IN RURAL AREAS SHALL BE OF COMPOSITE MATERIAL. SEE PARTS LIST FOR SPECIFICS
- HANDHOLES IN URBAN AREAS USED AS SPURCE POINT SHALL BE FITTED WITH INTEGRATED LID LOCATE SYSTEM (IE QUAZITE EZ LOCATE OR MARTIN GROUND BAR LOCATE SYSTEM)
- EMS LOCATE BALL SHALL BE PLACED ON TOP (LID) OF BURIED HANDHOLES PRIOR TO BACKFILL. EMS LOCATE BALL TO BE INSTALLED ON ALL BURIED INSTALLATIONS
- CONTRACTOR SHALL SUPPLY 1/4" X 1/4" MESH .19 GAUGE WIRE FOR URBAN HANDHOLES SET ABOVE ROCK BASE



**WOOD POST & TEST STATION DETAIL (TYP. ALL SPURCE HANDHOLES) ELEVATION VIEW**



**MEC HANDHOLE - RURAL PLACEMENT ELEVATION VIEW**



**MEC HANDHOLE - URBAN PLACEMENT ELEVATION VIEW**

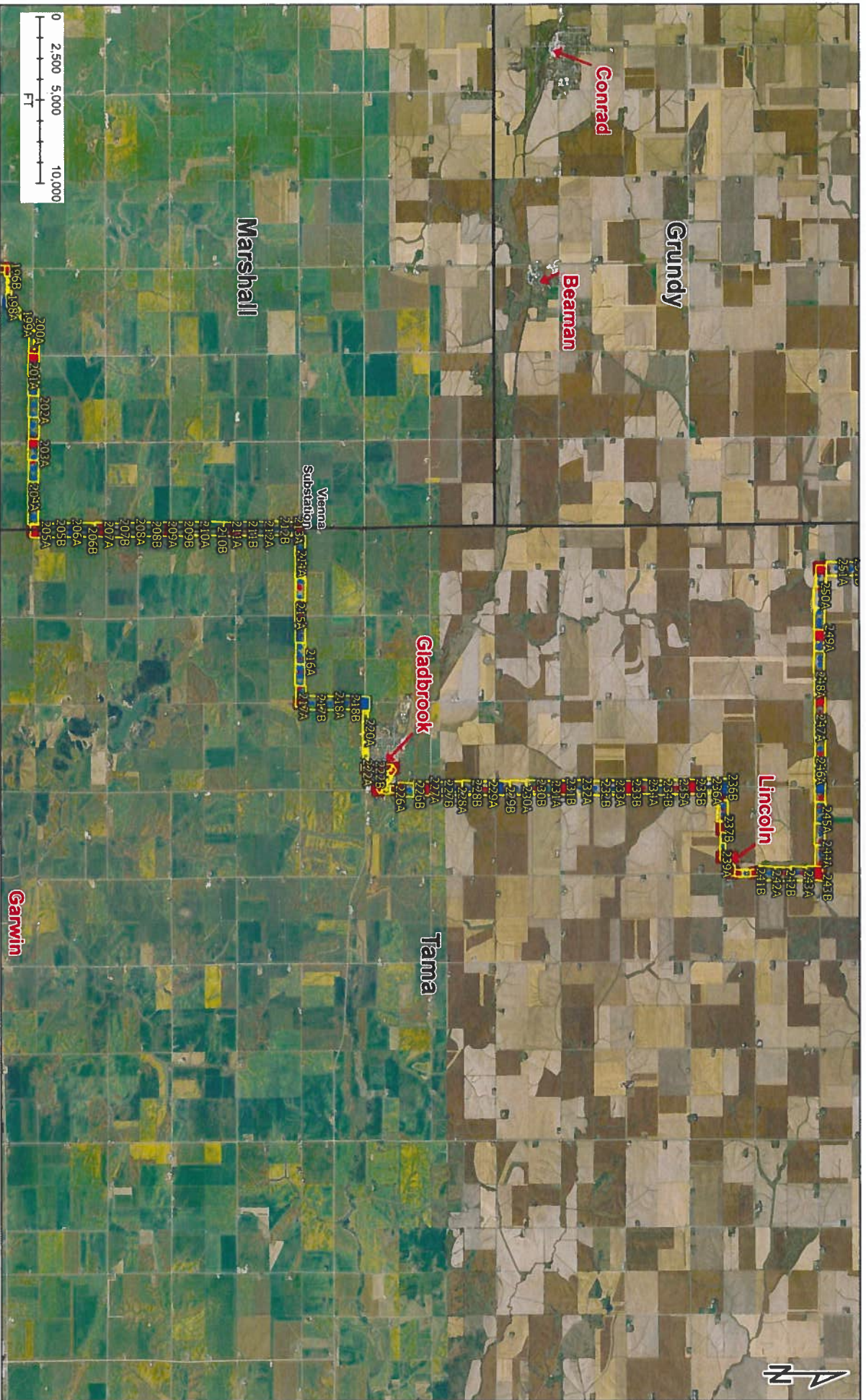
**HANDHOLE PLACEMENT TABLE**

TYPE	RURAL	URBAN
ASSIST	BURIED	FLUSH
SPURCE	BURIED	FLUSH
ENTER CONNECT	FLUSH	FLUSH

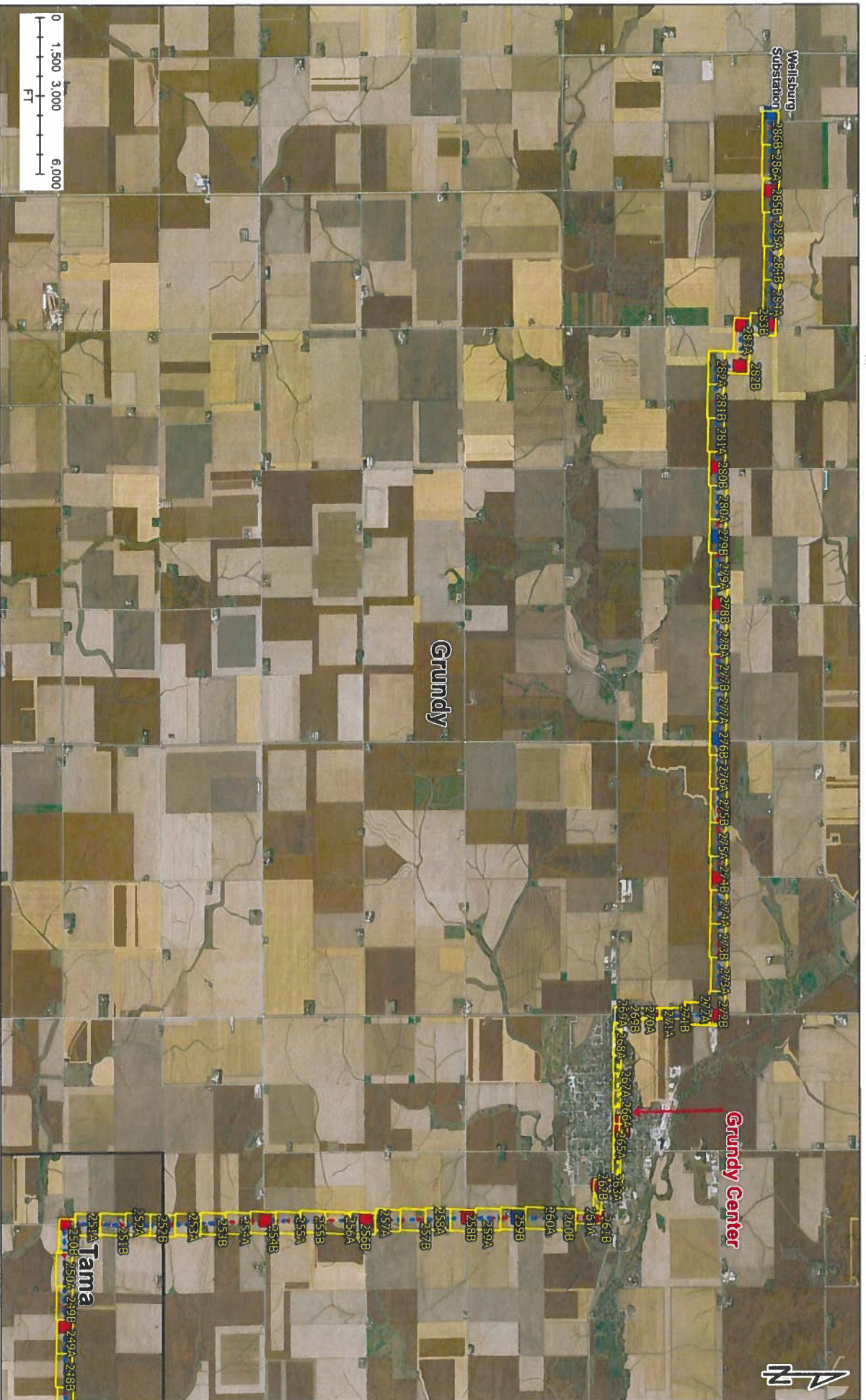
**HANDHOLE DIMENSION & DETAIL TABLE**

TYPE	LENGTH	WIDTH	DEPTH	SPURCE	TEST	CON.
ASSIST	24" - 30" - 24"	30"	24"	NO	NO	150' PER CABLE
SPURCE	30" - 48" - 24"	30"	24"	YES	YES	75' PER TAIL
ENTER CONNECT	30" - 48" - 24"	30"	24"	NO	NO	150' PER CABLE

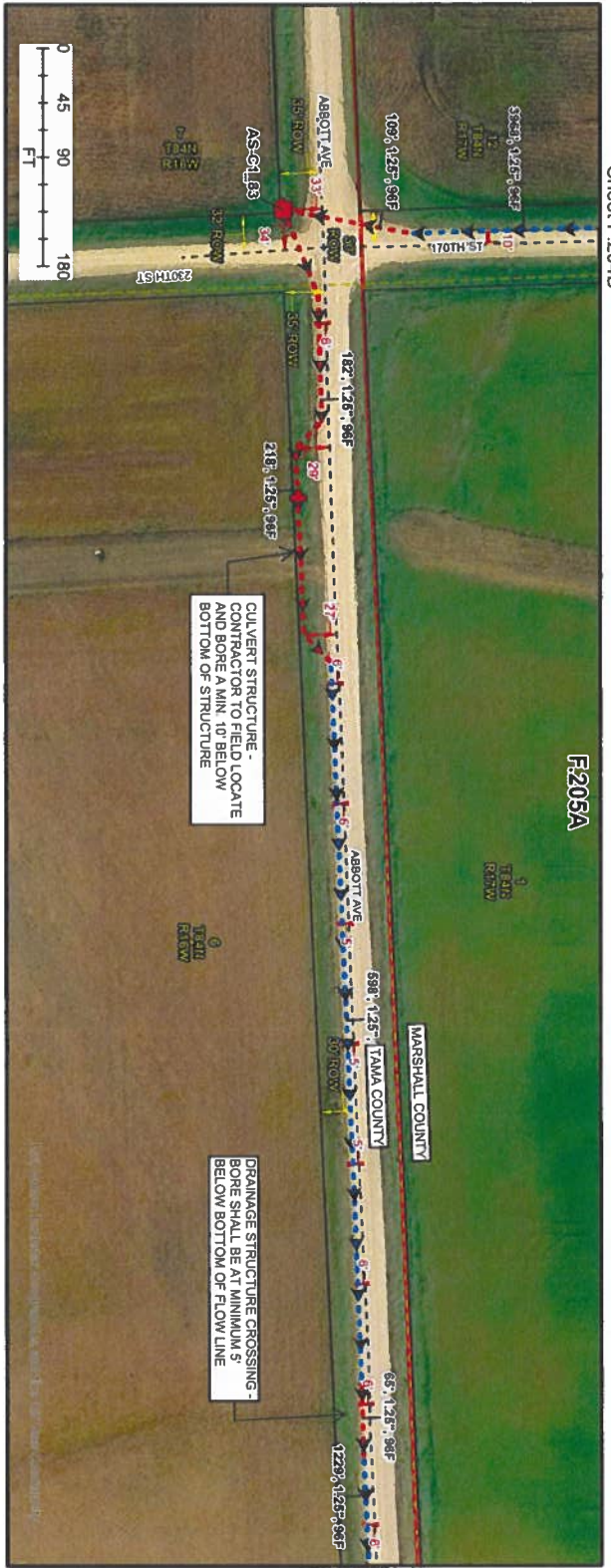
# MEC - C1 Route - Sheets 201-250



# MEC - C1 Route - Sheets 251-286







F205A



Sheet F.205B



F205B



Sheet F.206A

MidAmerican Energy

Olsson

	24"x36"x24" Stack
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore 1.25" SDR 13.5
	Bore 2" SDR 11
	Bore 2" SDR 13.5
	Piow 1.25" SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee Crossings
	NMTI Feature
	Public Railroad Crossings
	Drainage districts
	Drainage District Infrastructure
	Iowa cemeteries

90 PERCENT REVIEW (PRI)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
INITIALS	ASBULT
DATE	

SHIPPING LINE, NOK. 2

AKK 7' x 4 1/2" x 4 1/2" x 4 1/2" BIER COUNT (24 48 96 216)

1" = 40' (1" = 160')

1" = 80' (1" = 320')

1" = 160' (1" = 640')

1" = 320' (1" = 1280')

1" = 640' (1" = 2560')

1" = 1280' (1" = 5120')

1" = 2560' (1" = 10240')

1" = 5120' (1" = 20480')

1" = 10240' (1" = 40960')

1" = 20480' (1" = 81920')

1" = 40960' (1" = 163840')

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1" = 2621440' (1" = 10485760')

1" = 5242880' (1" = 20971520')

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1" = 20971520' (1" = 83886080')

1" = 41943040' (1" = 167772160')

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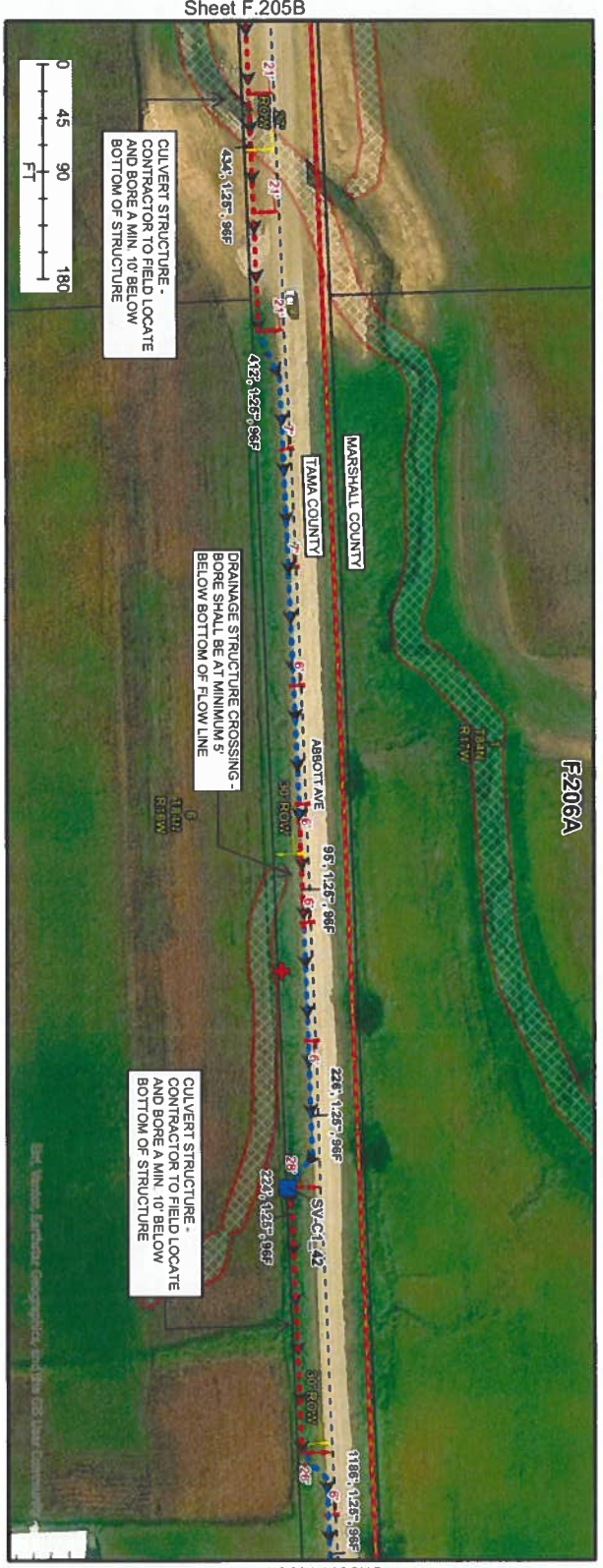
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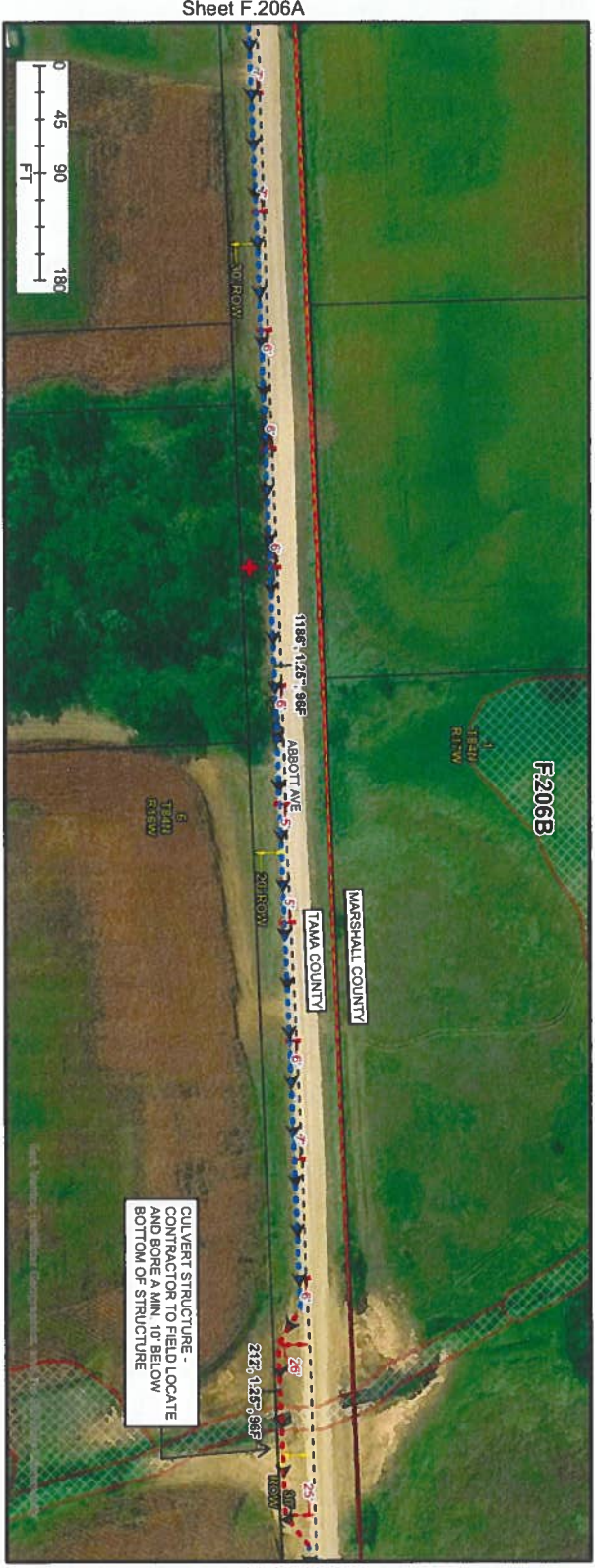
- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore 1.25" SDR 13.5
- Bore 2" SDR 11
- Bore 2.7" SDR 13.5
- Piow 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee, Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

Sheet F.206



Sheet F.205B



Sheet F.206A



Sheet F.206B



Sheet F.207A

MidAmerican  
ENERGY

Olsson

	24"x36"x24" Suck
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore, 1.25" SDR 13.5
	Bore, 2" SDR 11
	Bore, 2" SDR 13.5
	Pipe, 1.25" SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Lewee, Crossings
	NWI Feature
	Public Railroad
	Crossings
	Drainage districts
	Drainage District Infrastructure
	Iowa cemeteries

90 PERCENT REVIEW (IPR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

DRAWING DATE: 08/26/24

XXX - Z - XXT -> \*FIELD COUNT (R 44 W 716)

-----> \*LINEAR FOOTAGE

\*\*\*\*\* \*DESIGN IN OWN PER VIEWPORT

Sheet F.207

Sheet F.208A

Sheet F.207B

Sheet F.207B



Sheet F.208B

Sheet F.208A



Sheet F.209A



- 24"x36"x24" Slab
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25", SDR 13.5
- Bore, 2", SDR 11
- Bore, 2", SDR 13.5
- Pilew, 1.25", SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- Section, Township, Range
- High-Pressure Gas
- Lever, Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

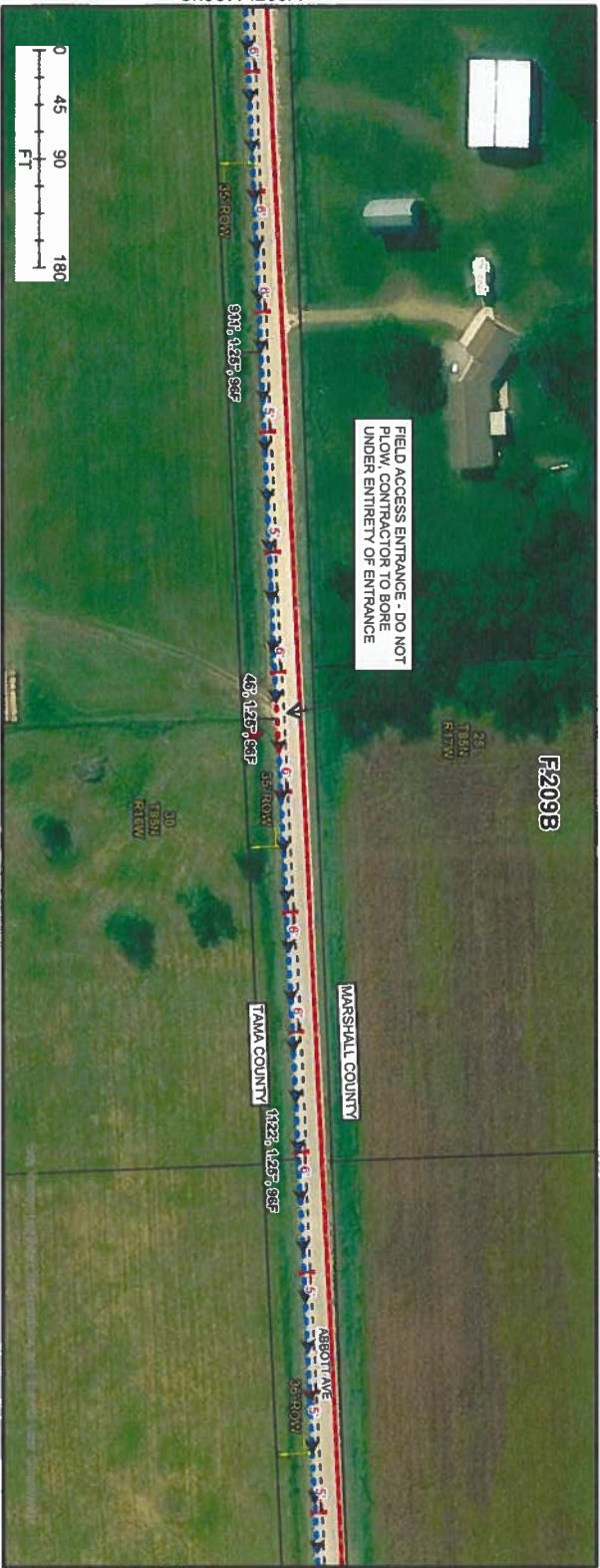
90 PERCENT REVIEW (IFR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

Sheet F.208

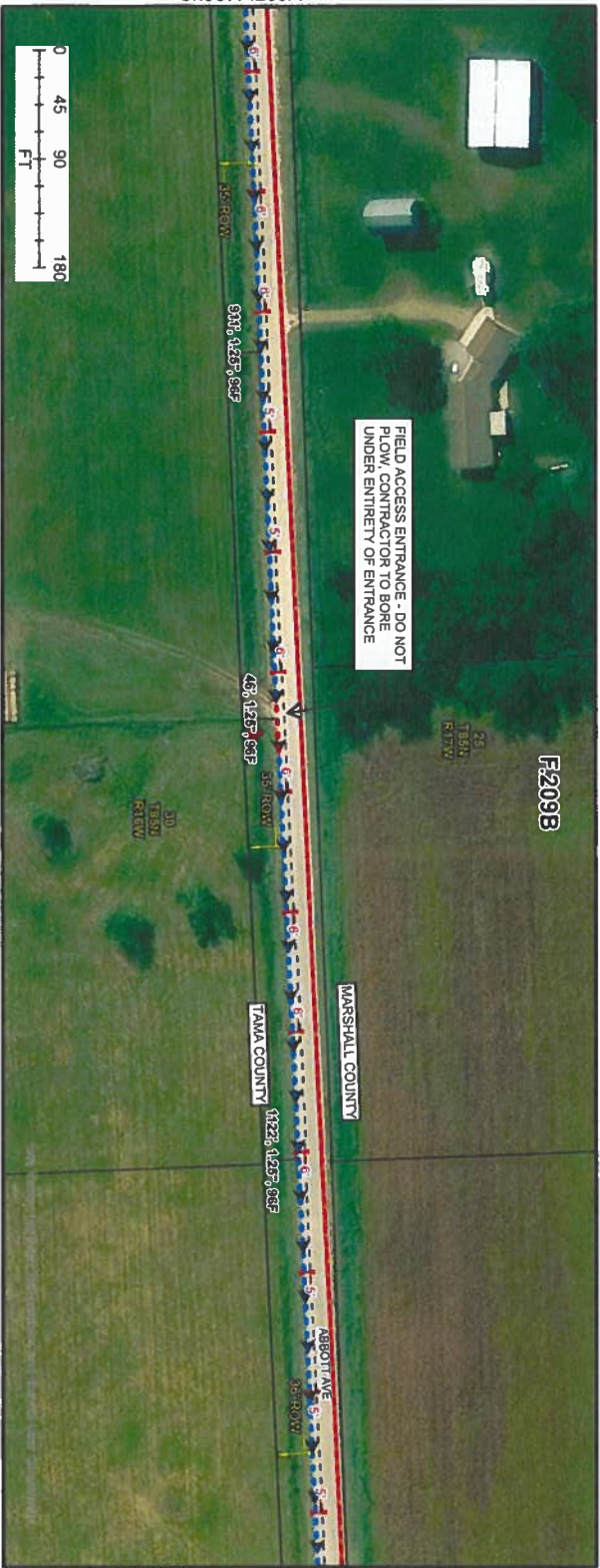
Sheet F.208B




Sheet F.209B




Sheet F.209A




























Sheet F.210A



MidAmerican  
ENERGY



olsson

	24"x36"x24" Slab
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore, 1.25" SDR 13.5
	Bore, 2" SDR 11
	Bore, 2" SDR 13.5
	Pilew, 1.25" SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee Crossings
	NWI Feature
	Public Railroad
	Crossings
	Drainage districts
	Drainage District Infrastructure
	Iowa centerlines

90 PERCENT REVIEW (IFR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

MANUFACTURER: M&K

AXX 2" AXI → FIBER COAT (N 44 W 216)

→ COMBIB REEL (125' 7" or 14M1)

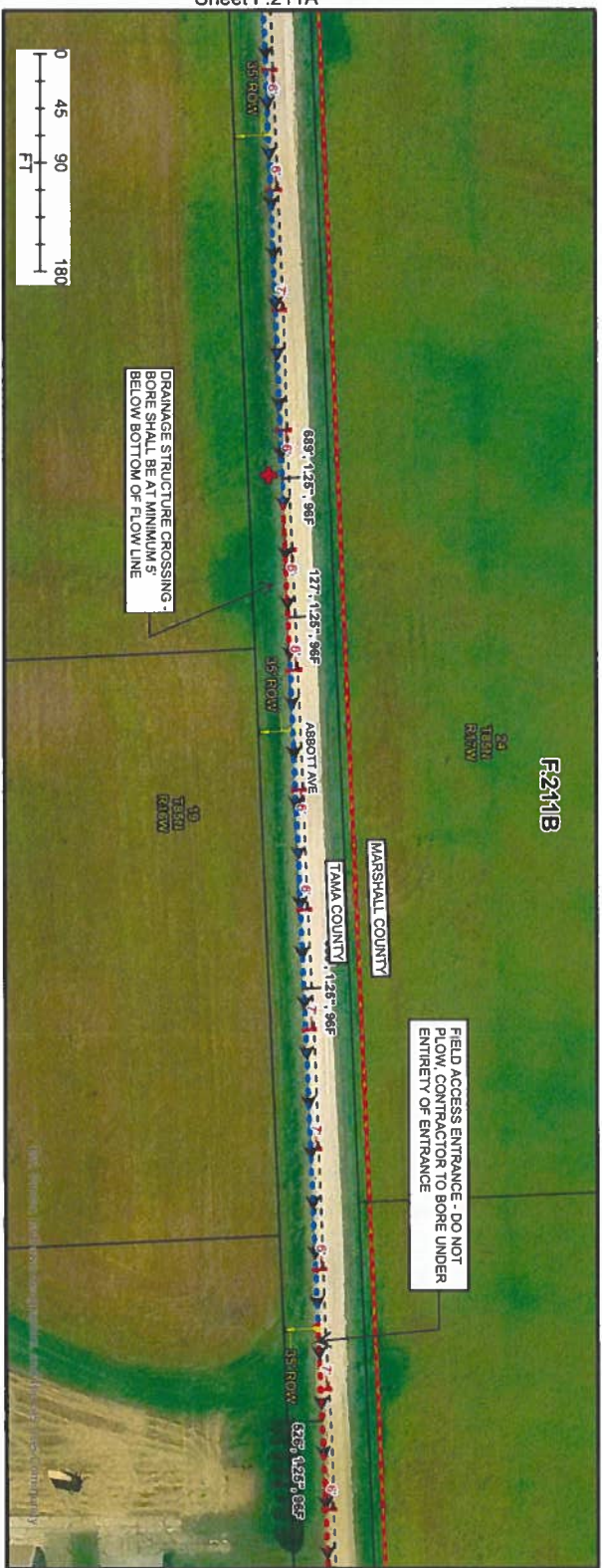
→ DESIGN ROW PER VENDOR

Sheet F.209






Sheet F.211B



Sheet F.212A



**Mid-American**  
inneov

**olsson**

- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25' SDR 13.5
- Bore, 2" SDR 11
- Bore, 2" SDR 13.5
- Piow, 1.25' SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Lever\_Crossings
- NWT Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa centerlines

90 PERCENT REVIEW (IRR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

DRAWING LINE INCHES: 1/8" = 1'-0"

AXX - 2" x 1/4" - 1/4" HUBER BOARD (OR 48 3/4" x 2 1/8" LINER FOOTING)

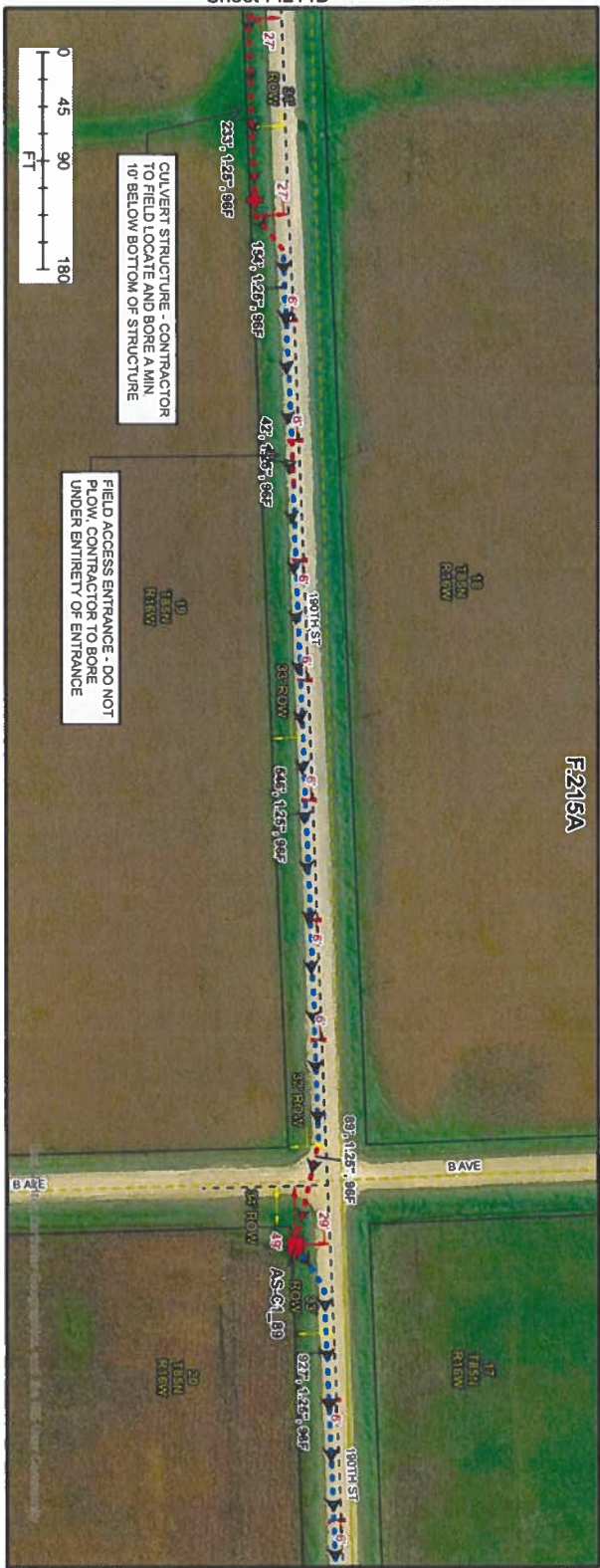
..... DESIGN FLOW PER VIEWPOINT

Sheet F.211

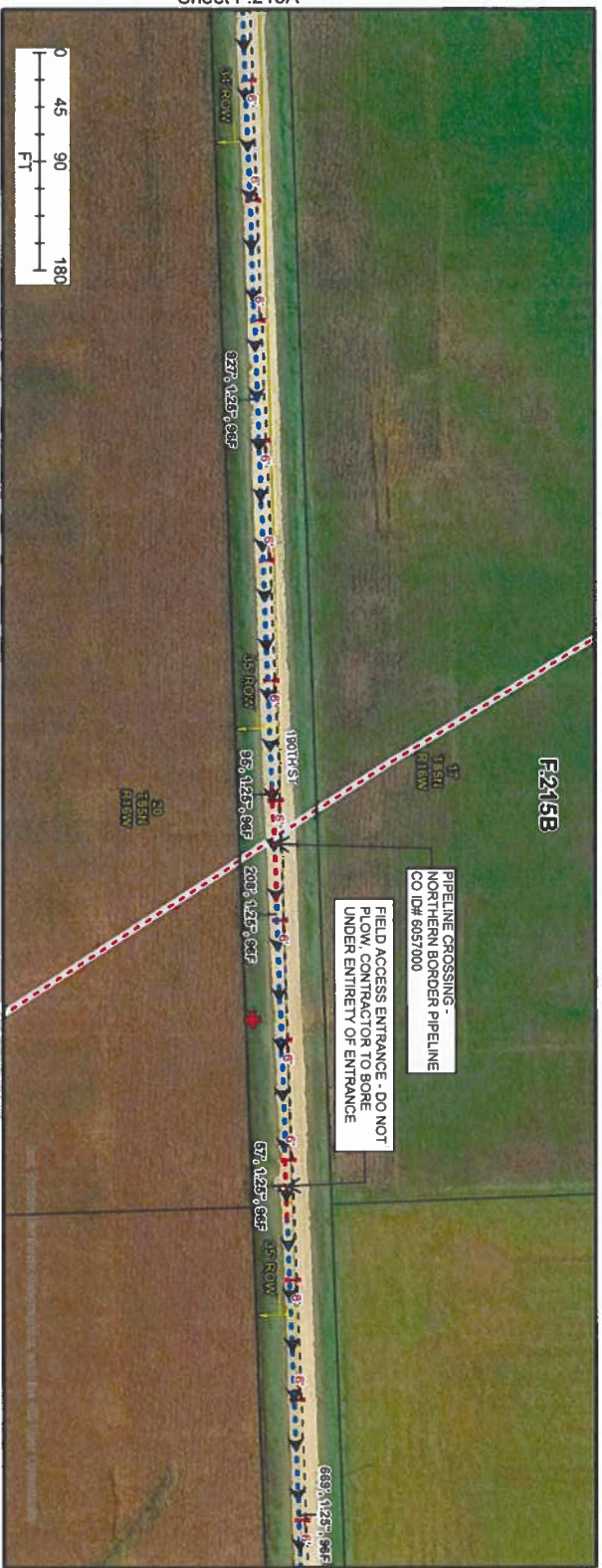










Sheet F.215B



Sheet F.216A



**MidAmerican**  
ENERGY



	24"x36"x24" Slack
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore, 1.25' SDR 13.5
	Bore, 2" SDR 11
	Bore, 2" SDR 13.5
	Plow, 1.25' SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	1/4" Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee, Crossings
	NWI Feature
	Public Railroad
	Crossings
	Drainage districts
	Drainage District Infrastructure
	lowa centerlines

90 PERCENT REVIEW (IFR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

DRAWING LINE INDICATES:

AXL 2" AXL → FIELD POINT (A 48" W. 215)

→ COMBINED (A 125" 7" A 48" W. 215)

→ DESIGN BLOW PEN VIEWPORT

Sheet F.215



Sheet F.216B



Sheet F.217A



- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25', SDR 13.5
- Bore, 2", SDR 11
- Bore, 2", SDR 13.5
- Pilew, 1.25", SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mill Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee, Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Low water centerlines

90 PERCENT REVIEW (JFR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	



F217A

Sheet F.217B



F217B

Sheet F.218A



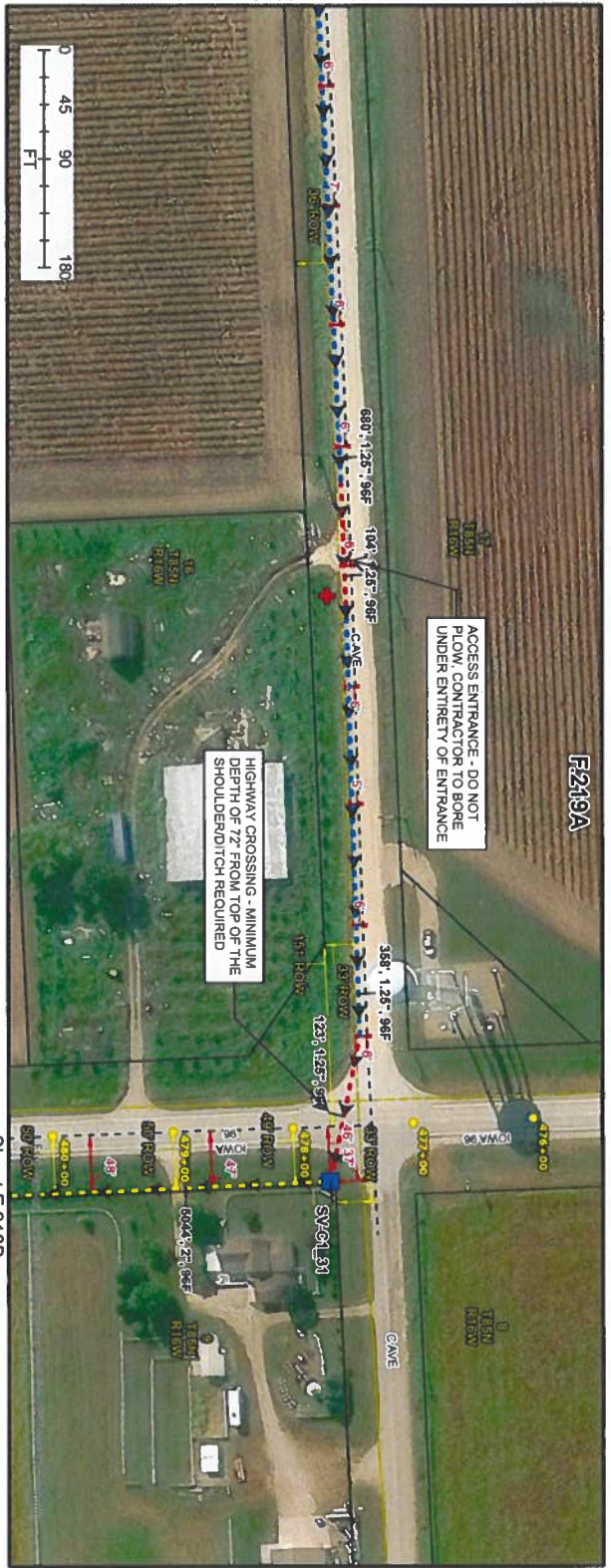
- 24"x36"x24" Slab
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25', SDR 13.5
- Bore, 2", SDR 11
- Bore, 2", SDR 13.5
- Plow, 1.25', SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Lane, Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa centerlines

90 PERCENT REVIEW (IFR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

Sheet F.217



Sheet F.218B



Sheet F.219B

Sheet F.219A



Sheet F.220A

MidAmerican Energy

olsson

	24x36x24" Stack
	30x48x24" Splice
	30x48x24" Interconnect
	Existing
	Bore 1.25", SDR 13.5
	Bore 2", SDR 11
	Bore 2", SDR 13.5
	Bore 1.25", SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee, Crossings
	NWI Feature
	Public Railroad
	Crossings
	Drainage districts
	Infrastructure
	Iowa cemeteries

<b>90 PERCENT REVIEW (PR)</b>	
INITIALS	MARU
DATE	9/13/2024
<b>APPROVED FOR CONSTRUCTION</b>	
INITIALS	MARU
DATE	11/25/2025
<b>REVISION 1</b>	
INITIALS	
DATE	
<b>REVISION 2</b>	
INITIALS	
DATE	
<b>ASBUILT</b>	
INITIALS	
DATE	

DRAWING LINK: [LINK](#)

AXC 2' x 0.1" = 1" (FIELD COORDINATE) 44' x 0.1" = 1" (LOCAL FOOTING)

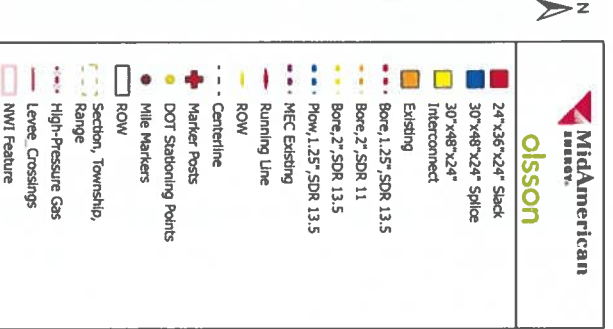
DESIGN IN TOWN REVISIONPORT

Sheet F.219

Sheet F.219B



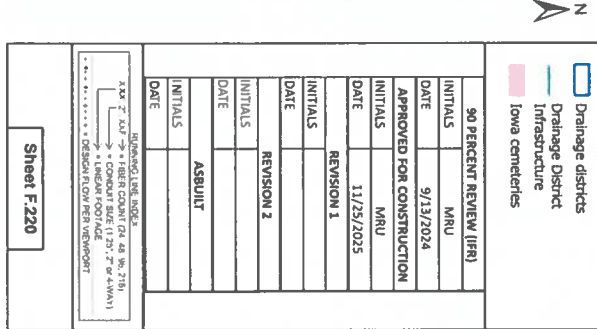
Sheet F.220B



Sheet F.220A



Sheet F.221A

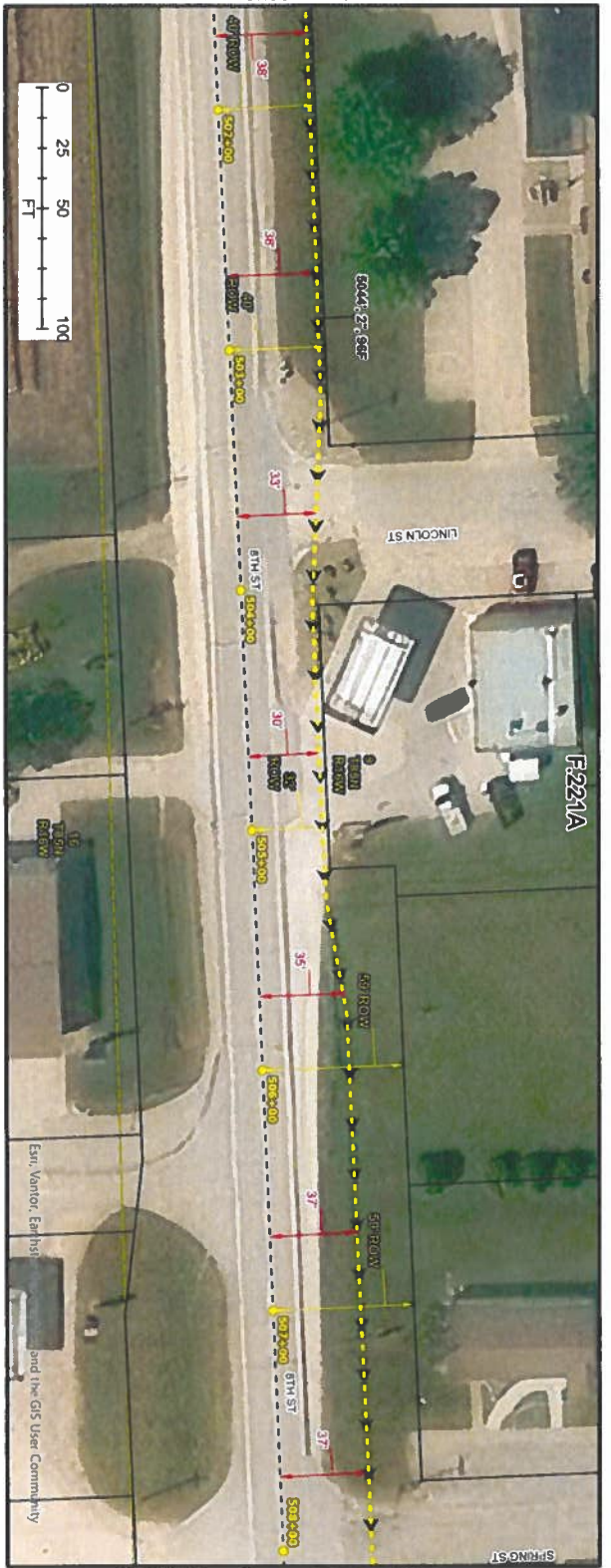


olsson

- 24"x36"x24" Slab
- 30"x48"x24" Splice
- 30"x48"x24"
- Interconnect
- Existing
- Bore 1.25" SDR 13.5
- Bore 2" SDR 11
- Bore 2" SDR 13.5
- Piow, 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- DOT Stationing
- Mill Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee, Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

Sheet F.220



Sheet F.221B



Sheet F.222A

MidAmerican  
Energy

olsson

- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25" SDR 13.5
- Bore, 2" SDR 11
- Bore, 2" SDR 13.5
- Plow, 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- + Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Level, Crossings
- NMTI Feature
- X Public Railroad
- X Crossings
- X Drainage districts
- X Drainage District Infrastructure
- X Iowa cemeteries

90 PERCENT REVIEW (F/R)	
INITIALS	MNU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MNU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBULT	
INITIALS	
DATE	

DRAWING: LDR, ANK, KAX 2" X 14" → 1" R/R GRID (24" & 48" & 72" & 96" & 120" & 144" & 168" & 192" & 216" & 240" & 264" & 288" & 312" & 336" & 360" & 384" & 408" & 432" & 456" & 480" & 504" & 528" & 552" & 576" & 600" & 624" & 648" & 672" & 696" & 720" & 744" & 768" & 792" & 816" & 840" & 864" & 888" & 912" & 936" & 960" & 984" & 1008" & 1032" & 1056" & 1080" & 1104" & 1128" & 1152" & 1176" & 1200" & 1224" & 1248" & 1272" & 1296" & 1320" & 1344" & 1368" & 1392" & 1416" & 1440" & 1464" & 1488" & 1512" & 1536" & 1560" & 1584" & 1608" & 1632" & 1656" & 1680" & 1704" & 1728" & 1752" & 1776" & 1800" & 1824" & 1848" & 1872" & 1896" & 1920" & 1944" & 1968" & 1992" & 2016" & 2040" & 2064" & 2088" & 2112" & 2136" & 2160" & 2184" & 2208" & 2232" & 2256" & 2280" & 2304" & 2328" & 2352" & 2376" & 2400" & 2424" & 2448" & 2472" & 2496" & 2520" & 2544" & 2568" & 2592" & 2616" & 2640" & 2664" & 2688" & 2712" & 2736" & 2760" & 2784" & 2808" & 2832" & 2856" & 2880" & 2904" & 2928" & 2952" & 2976" & 3000" & 3024" & 3048" & 3072" & 3096" & 3120" & 3144" & 3168" & 3192" & 3216" & 3240" & 3264" & 3288" & 3312" & 3336" & 3360" & 3384" & 3408" & 3432" & 3456" & 3480" & 3504" & 3528" & 3552" & 3576" & 3600" & 3624" & 3648" & 3672" & 3696" & 3720" & 3744" & 3768" & 3792" & 3816" & 3840" & 3864" & 3888" & 3912" & 3936" & 3960" & 3984" & 4008" & 4032" & 4056" & 4080" & 4104" & 4128" & 4152" & 4176" & 4200" & 4224" & 4248" & 4272" & 4296" & 4320" & 4344" & 4368" & 4392" & 4416" & 4440" & 4464" & 4488" & 4512" & 4536" & 4560" & 4584" & 4608" & 4632" & 4656" & 4680" & 4704" & 4728" & 4752" & 4776" & 4800" & 4824" & 4848" & 4872" & 4896" & 4920" & 4944" & 4968" & 4992" & 5016" & 5040" & 5064" & 5088" & 5112" & 5136" & 5160" & 5184" & 5208" & 5232" & 5256" & 5280" & 5304" & 5328" & 5352" & 5376" & 5400" & 5424" & 5448" & 5472" & 5496" & 5520" & 5544" & 5568" & 5592" & 5616" & 5640" & 5664" & 5688" & 5712" & 5736" & 5760" & 5784" & 5808" & 5832" & 5856" & 5880" & 5904" & 5928" & 5952" & 5976" & 6000" & 6024" & 6048" & 6072" & 6096" & 6120" & 6144" & 6168" & 6192" & 6216" & 6240" & 6264" & 6288" & 6312" & 6336" & 6360" & 6384" & 6408" & 6432" & 6456" & 6480" & 6504" & 6528" & 6552" & 6576" & 6600" & 6624" & 6648" & 6672" & 6696" & 6720" & 6744" & 6768" & 6792" & 6816" & 6840" & 6864" & 6888" & 6912" & 6936" & 6960" & 6984" & 7008" & 7032" & 7056" & 7080" & 7104" & 7128" & 7152" & 7176" & 7200" & 7224" & 7248" & 7272" & 7296" & 7320" & 7344" & 7368" & 7392" & 7416" & 7440" & 7464" & 7488" & 7512" & 7536" & 7560" & 7584" & 7608" & 7632" & 7656" & 7680" & 7704" & 7728" & 7752" & 7776" & 7800" & 7824" & 7848" & 7872" & 7896" & 7920" & 7944" & 7968" & 7992" & 8016" & 8040" & 8064" & 8088" & 8112" & 8136" & 8160" & 8184" & 8208" & 8232" & 8256" & 8280" & 8304" & 8328" & 8352" & 8376" & 8400" & 8424" & 8448" & 8472" & 8496" & 8520" & 8544" & 8568" & 8592" & 8616" & 8640" & 8664" & 8688" & 8712" & 8736" & 8760" & 8784" & 8808" & 8832" & 8856" & 8880" & 8904" & 8928" & 8952" & 8976" & 9000" 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Sheet F.221B



Sheet F.222B



Sheet F.223A



- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore 1.25" SDR 13.5
- Bore 2" SDR 11
- Bore 2" SDR 13.5
- Plow 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Level Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

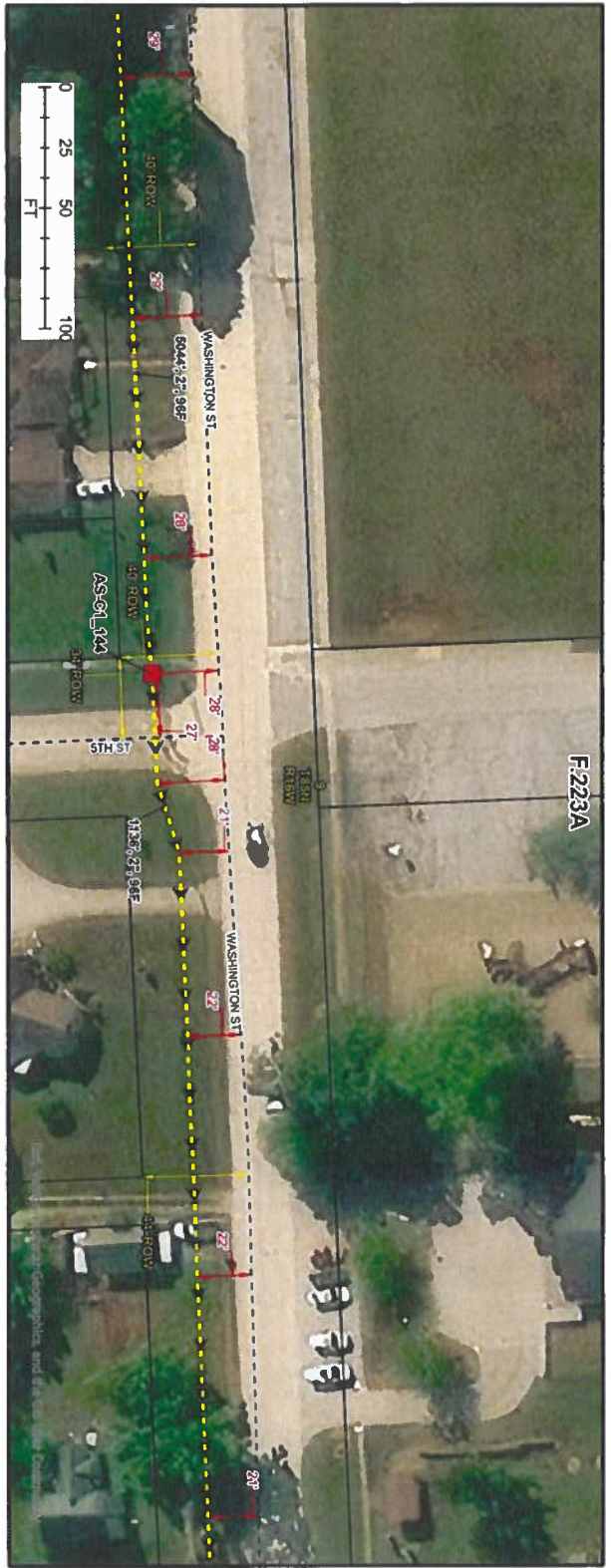
90 PERCENT REVIEW (FR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
REVISION 3	
INITIALS	ASBULT
DATE	

DRAWING LINE INDEX:  
 A-K: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 L-N: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 O-P: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 Q-R: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 S-T: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 U-V: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 W-X: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 Y-Z: 2" x 8" FIELD BOARD (24" x 48" x 24")  
 DESIGN IN QW: PER VIEWPOINT

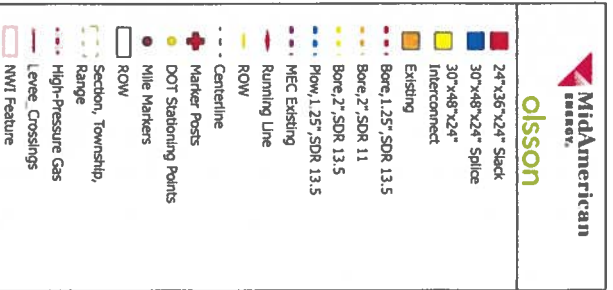
Sheet F.222

Sheet F.222A

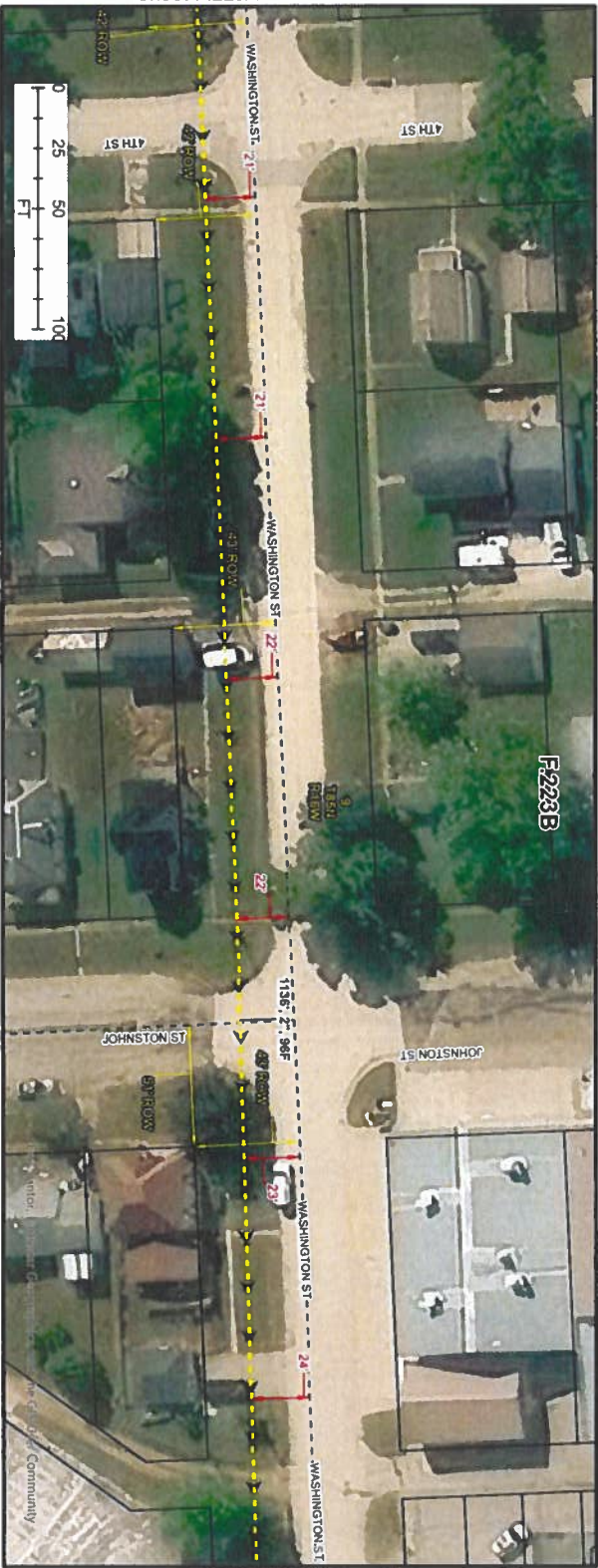
Sheet F.222B



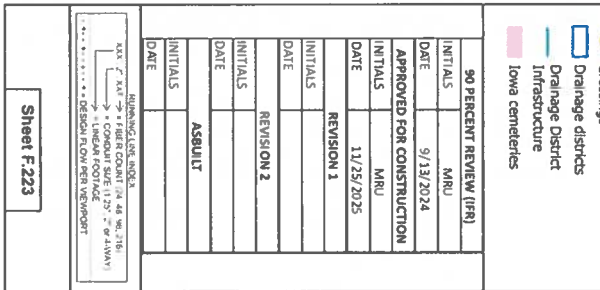
Sheet F.223B



Sheet F.223A



Sheet F.224A



MidAmerican  
Energy

Olsson

	24"x36"x24" Slack
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore 1.25" SDR 13.5
	Bore 2" SDR 11
	Bore 2" SDR 13.5
	Piow, 1.25" SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee, Crossings
	NWI Feature
	Public Railroad
	Crossings
	Drainage districts
	Infrastructure
	Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

WARNING: LOW VOLTAGE

SEE PLAN FOR ALL FIELD CONDITIONS AND ALL NEARBY UTILITIES

ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

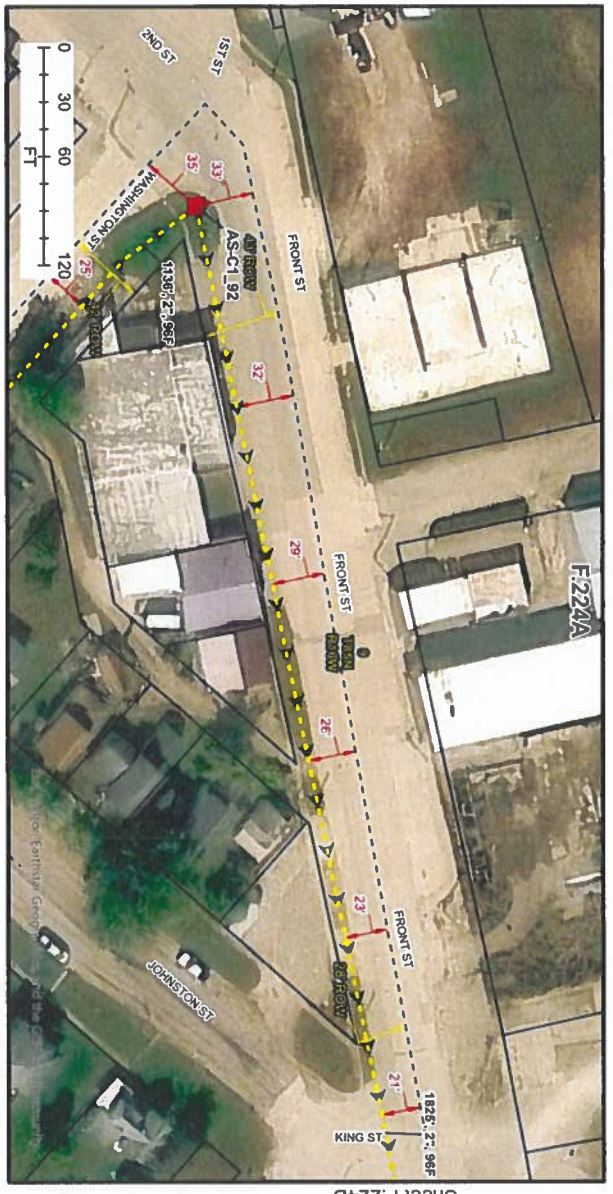
DESIGN IN LOW VOLTAGE VIEWPORT

Sheet F.223

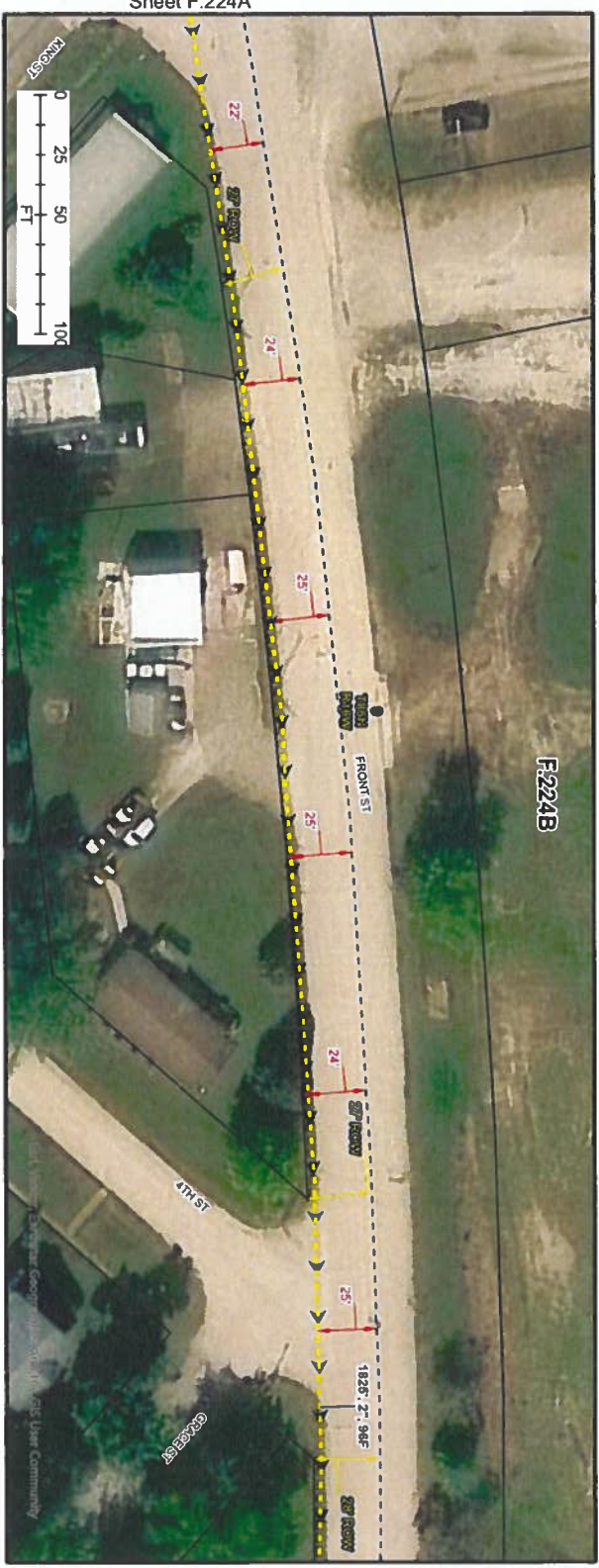
- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore 1.25", SDR 13.5
- Bore 2" SDR 11
- Bore 2" SDR 13.5
- Plow, 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Level Crossings
- NMT Feature
- ⊗ Public Railroad
- ⊗ Crossings
- Drainage districts
- Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MAU
DATE	11/25/2025
REVISION 1	
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INITIALS	
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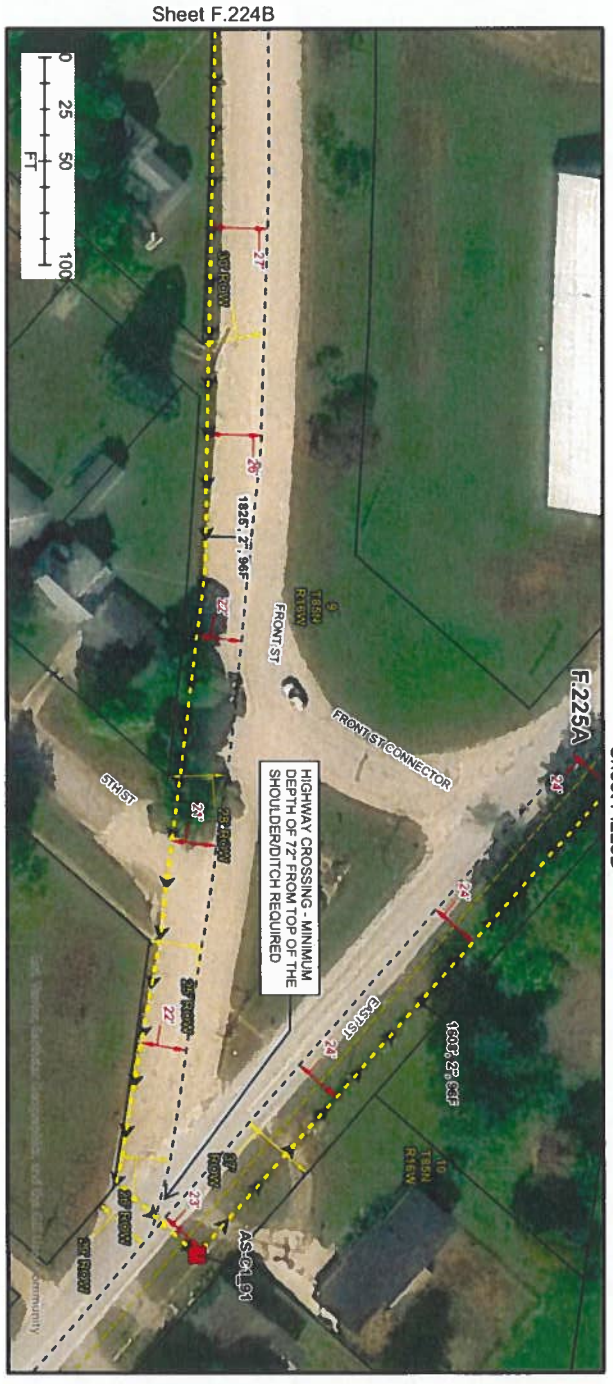
DRAWING LINK: [DRAWING LINK](#)  
 XREF: 2' X 1' -> 1' BIR (COUNT 48, 48, 27, 8)  
 \* LAYOUT FOOTING \*  
 \* DESIGNED FOR PER VIEWPORT \*



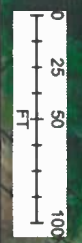
Sheet F.223B



Sheet F.224A



Sheet F.224B

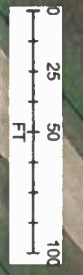


HIGHWAY CROSSING - MINIMUM DEPTH OF 72' FROM TOP OF THE SHOULDER/DITCH REQUIRED


Sheet F.225B




Sheet F.225A



Sheet F.226A



MidAmerican  
energy



olsson

	24"x36"x24" Slack
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore, 1.25", SDR 13.5
	Bore, 2", SDR 11
	Bore, 2", SDR 13.5
	Plow, 1.25", SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee, Crossings
	NMT Feature
	Public Railroad Crossings
	Drainage districts
	Drainage District Infrastructure
	Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	NARU
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APPROVED FOR CONSTRUCTION	
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DATE	11/25/2025
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REVISION 2	
INITIALS	
DATE	
REVISION 3	
INITIALS	ASBULT
DATE	

REVISIONS: 1. 11/25/2025

2. 11/25/2025

3. 11/25/2025

4. 11/25/2025

5. 11/25/2025

6. 11/25/2025

7. 11/25/2025

8. 11/25/2025

9. 11/25/2025

10. 11/25/2025

Sheet F.225



Sheet F.226B



Sheet F.227B



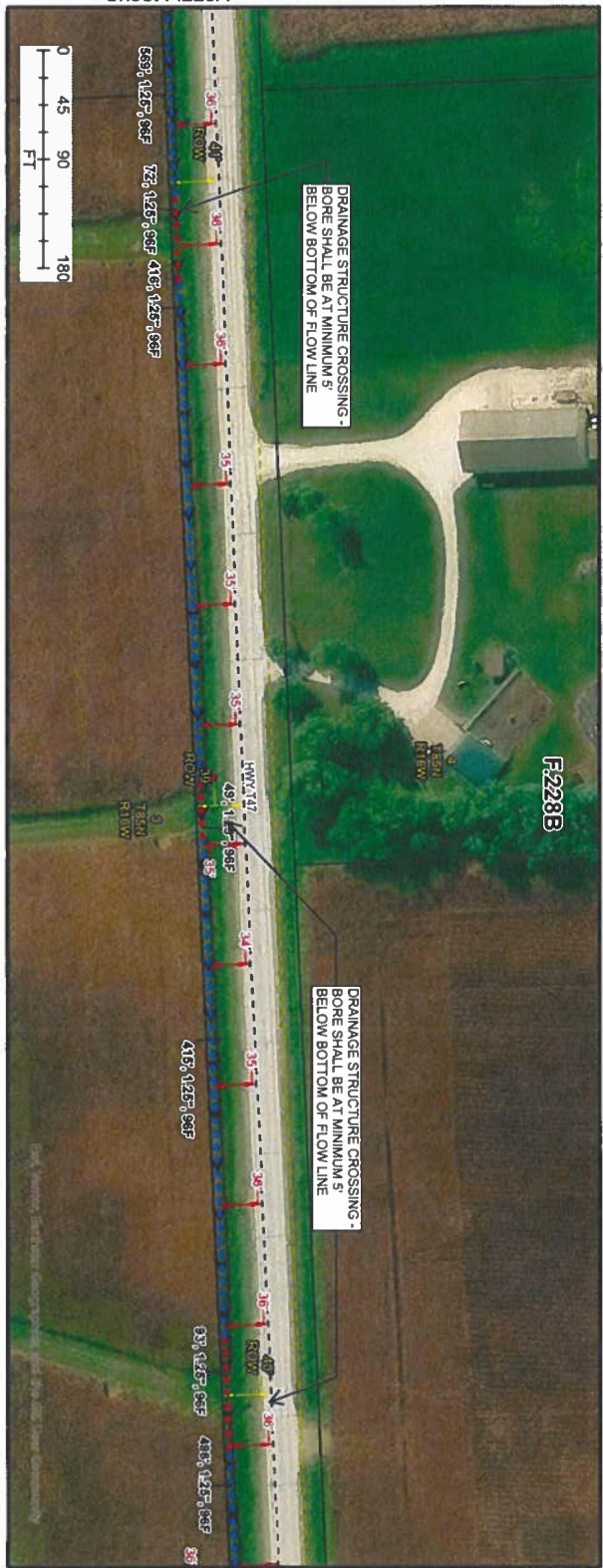
Sheet F.228A


<ul style="list-style-type: none"> <li><span style="color: red;">■</span> 24"x36"x24" Stack</li> <li><span style="color: blue;">■</span> 30"x48"x24" Splice</li> <li><span style="color: yellow;">■</span> 30"x48"x24" Interconnect</li> <li><span style="color: orange;">■</span> Existing</li> <li><span style="color: red;">●</span> Bore, 1.25" SDR 13.5</li> <li><span style="color: blue;">●</span> Bore, 27" SDR 11</li> <li><span style="color: yellow;">●</span> Bore, 27" SDR 13.5</li> <li><span style="color: green;">●</span> Bore, 1.25" SDR 13.5</li> <li><span style="color: red;">—</span> MEC Existing</li> <li><span style="color: blue;">—</span> Running Line</li> <li><span style="color: yellow;">—</span> ROW</li> <li><span style="color: green;">—</span> Centerline</li> <li><span style="color: red;">+</span> Marker Posts</li> <li><span style="color: blue;">●</span> DOT Stationing Points</li> <li><span style="color: yellow;">●</span> Mile Markers</li> <li><span style="color: orange;">□</span> ROW</li> <li><span style="color: red;">---</span> Section, Township, Range</li> <li><span style="color: blue;">---</span> High-Pressure Gas</li> <li><span style="color: green;">---</span> Levee Crossings</li> <li><span style="color: purple;">---</span> NMI Feature</li> <li><span style="color: brown;">X</span> Public Railroad</li> <li><span style="color: pink;">X</span> Crossings</li> <li><span style="color: lightblue;">□</span> Drainage districts</li> <li><span style="color: lightgreen;">□</span> Drainage District Infrastructure</li> <li><span style="color: lightyellow;">□</span> Iowa cemeteries</li> </ul>																					
<p>90 PERCENT REVIEW (PR)</p> <table border="1"> <tr><td>INITIALS</td><td>NARU</td></tr> <tr><td>DATE</td><td>9/13/2024</td></tr> </table> <p>APPROVED FOR CONSTRUCTION</p> <table border="1"> <tr><td>INITIALS</td><td>NARU</td></tr> <tr><td>DATE</td><td>11/25/2025</td></tr> </table> <p>REVISION 1</p> <table border="1"> <tr><td>INITIALS</td><td></td></tr> <tr><td>DATE</td><td></td></tr> </table> <p>REVISION 2</p> <table border="1"> <tr><td>INITIALS</td><td></td></tr> <tr><td>DATE</td><td></td></tr> </table> <p>ASBULT</p> <table border="1"> <tr><td>INITIALS</td><td></td></tr> <tr><td>DATE</td><td></td></tr> </table>		INITIALS	NARU	DATE	9/13/2024	INITIALS	NARU	DATE	11/25/2025	INITIALS		DATE		INITIALS		DATE		INITIALS		DATE	
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<p>Sheet F.227</p>																					

Sheet F.227B




Sheet F.228A





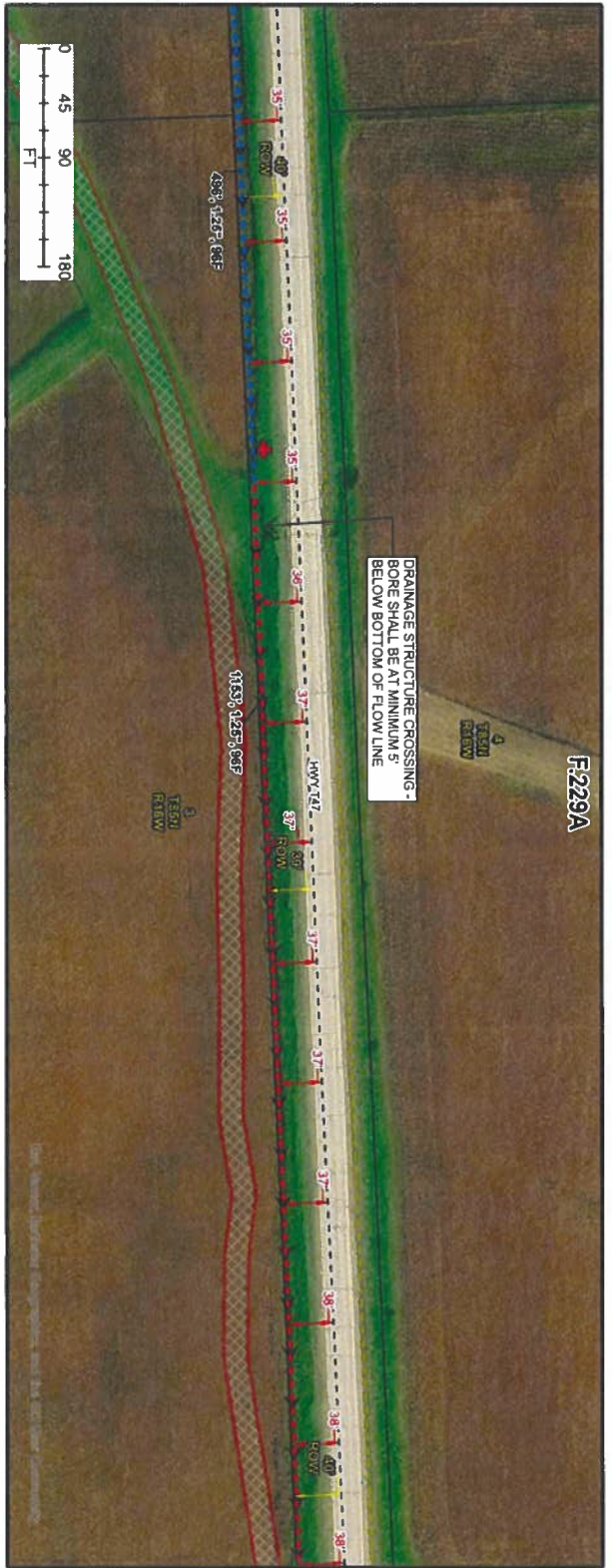
**MidAmerican**  
ENERGY



	<ul style="list-style-type: none"> <li><span style="color: red;">■</span> 24"x36"x24" Slack</li> <li><span style="color: blue;">■</span> 30"x48"x24" Splice</li> <li><span style="color: yellow;">■</span> 30"x48"x24" Interconnect</li> <li><span style="color: orange;">■</span> Existing</li> <li><span style="color: red;">●</span> Bore 1.25" SDR 13.5</li> <li><span style="color: blue;">●</span> Bore 2" SDR 11</li> <li><span style="color: yellow;">●</span> Bore 2" SDR 13.5</li> <li><span style="color: green;">●</span> Plow 1.25" SDR 13.5</li> <li><span style="color: purple;">●</span> MEC Existing</li> <li><span style="color: brown;">●</span> Running Line</li> <li><span style="color: grey;">●</span> ROW</li> <li><span style="color: black;">-</span> Centerline</li> <li><span style="color: red;">+</span> Marker Posts</li> <li><span style="color: blue;">●</span> DOT Stationing Points</li> <li><span style="color: yellow;">●</span> Mile Markers</li> <li><span style="color: grey;">□</span> ROW</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">-</span> Section, Township,</li> <li><span style="color: blue;">-</span> Range</li> <li><span style="color: green;">-</span> High-Pressure Gas</li> <li><span style="color: purple;">-</span> Levee, Crossings</li> <li><span style="color: brown;">-</span> NMT Feature</li> <li><span style="color: orange;">-</span> Public Railroad</li> <li><span style="color: yellow;">-</span> Drainage districts</li> <li><span style="color: blue;">-</span> Drainage District Infrastructure</li> <li><span style="color: grey;">-</span> Iowa cemeteries</li> </ul>	<p>90 PERCENT REVIEW (PR)</p> <p>INITIALS: MRU</p> <p>DATE: 9/13/2024</p> <p>APPROVED FOR CONSTRUCTION</p> <p>INITIALS: MRU</p> <p>DATE: 11/25/2025</p> <p>REVISION 1</p> <p>INITIALS: ASBULT</p> <p>DATE: _____</p> <p>REVISION 2</p> <p>INITIALS: _____</p> <p>DATE: _____</p> <p>INITIALS: _____</p> <p>DATE: _____</p>
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Sheet F.228

Sheet F.228B



Sheet F.229B



Sheet F.229A



MidAmerican Energy  
olsson

- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25", SDR 13.5
- Bore, 2", SDR 11
- Bore, 2", SDR 13.5
- Plow, 1.25", SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- + Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee Crossings
- NMTI Feature
- X Public Railroad Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	MARU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MARU
DATE	11/25/2025
REVISION 1	
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ASBULT	
INITIALS	
DATE	

DRAWING LINK: INCK 3

AXX Z AXZ → \* FIBER CORD (24 48 72) \*

→ \* CONDUIT (24 48 72) \*

→ \* CABLE (24 48 72) \*

→ \* DESIGN IN QW REEVENPORT

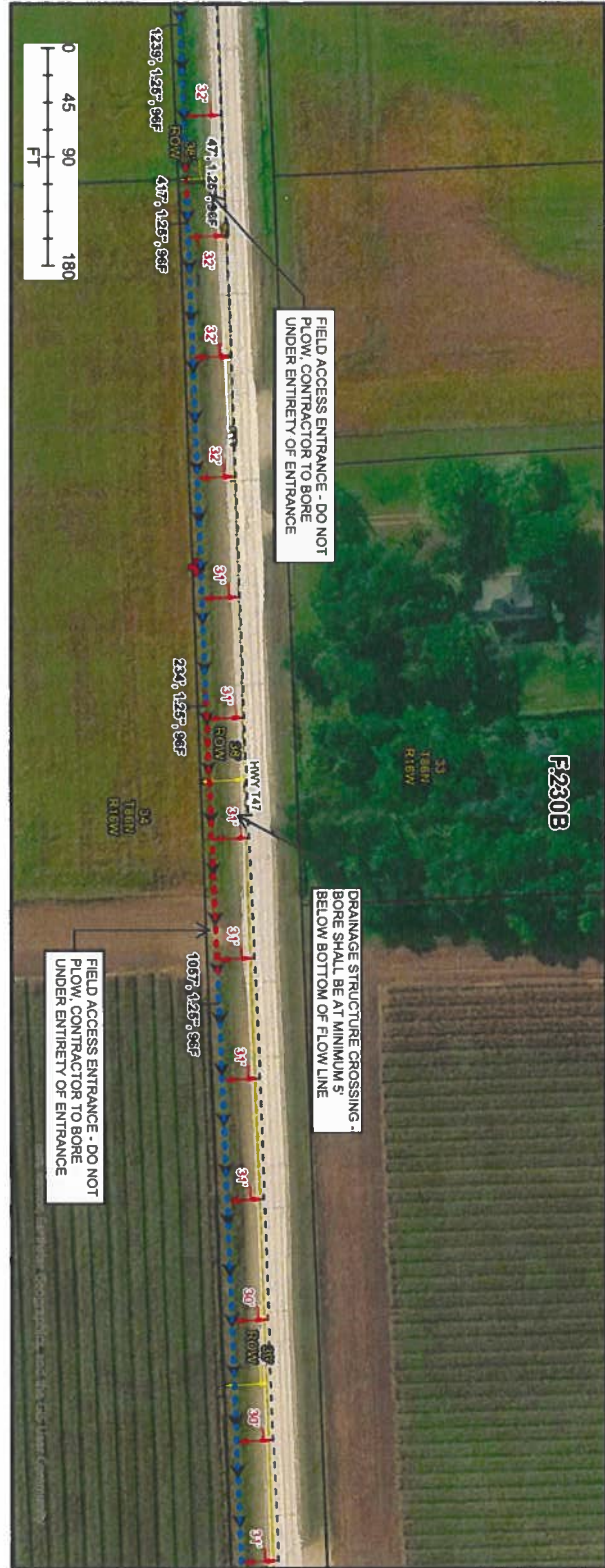
Sheet F.229

Sheet F.229B



Sheet F.230B

Sheet F.230A

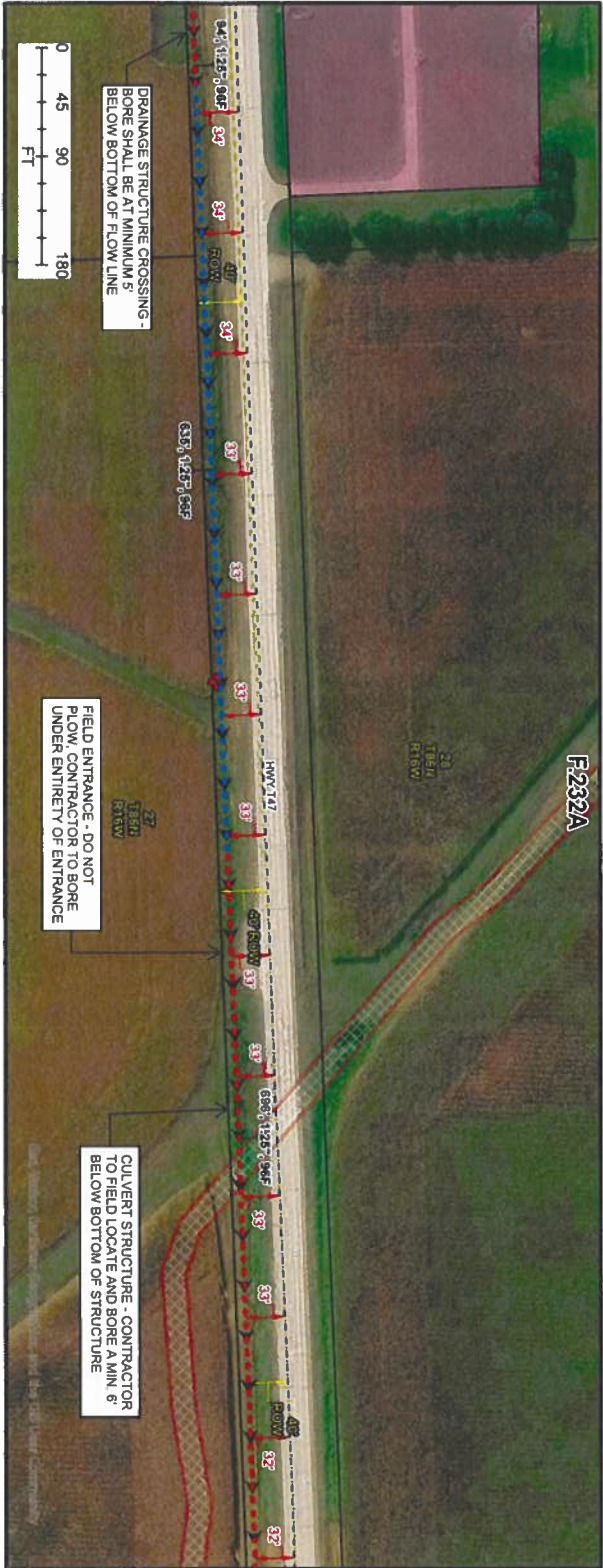


Sheet F.231A

<ul style="list-style-type: none"> <li>24"x36"x24" Slack</li> <li>30"x48"x24" Splice</li> <li>30"x48"x24" Interconnect</li> <li>Existing</li> <li>Bore, 1.25" SDR 13.5</li> <li>Bore, 2" SDR 11</li> <li>Bore, 2" SDR 13.5</li> <li>Plow, 1.25" SDR 13.5</li> <li>MEC Existing</li> <li>Running Line</li> <li>ROW</li> <li>Centerline</li> <li>Marker Posts</li> <li>DOT Stationing Points</li> <li>Mile Markers</li> <li>ROW</li> <li>Section, Township, Range</li> <li>High-Pressure Gas</li> <li>Lever Crossings</li> <li>NMTI Feature</li> <li>Public Railroad</li> <li>Crossings</li> <li>Drainage districts</li> <li>Drainage District Infrastructure</li> <li>Iowa cemeteries</li> </ul>	<p>90 PERCENT REVIEW (PRI)</p> <p>INITIALS: NARU</p> <p>DATE: 9/13/2024</p> <p>APPROVED FOR CONSTRUCTION</p> <p>INITIALS: MHU</p> <p>DATE: 11/25/2025</p> <p>REVISION 1</p> <p>INITIALS:</p> <p>DATE:</p> <p>REVISION 2</p> <p>INITIALS:</p> <p>DATE:</p> <p>ASBULT</p> <p>INITIALS:</p> <p>DATE:</p>
<p>Sheet F.230</p>	



Sheet F.231B

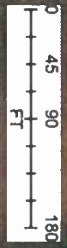


DRAINAGE STRUCTURE CROSSING - BORE SHALL BE AT MINIMUM 5' BELOW BOTTOM OF FLOW LINE


FIELD ENTRANCE - DO NOT PLOW, CONTRACTOR TO BORE UNDER ENTIRETY OF ENTRANCE

CULVERT STRUCTURE - CONTRACTOR TO FIELD LOCATE AND BORE A MIN. 8' BELOW BOTTOM OF STRUCTURE


Sheet F.232A



Sheet F.233A



MidAmerican Energy



Olsson

- 24"x36"x24" Slab
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25" SDR 13.5
- Bore, 2" SDR 11
- Bore, 7" SDR 13.5
- Plow, 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- + Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee Crossings
- NMI Feature
- X Public Railroad
- X Drainage districts
- X Drainage District Infrastructure
- X Iowa cemeteries

90 PERCENT REVIEW (PRI)	
INITIALS	NARU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
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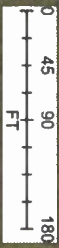
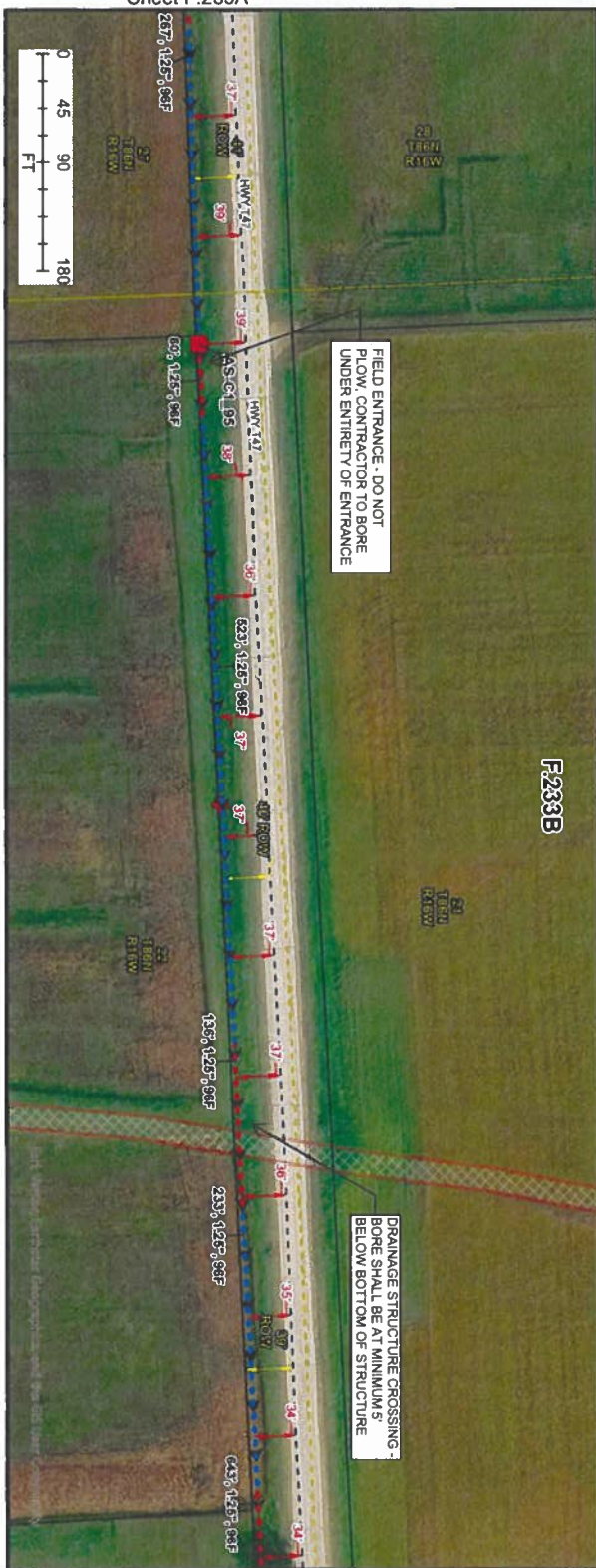
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AKA: 7' x4' 9" x 1' BBR COUNT (24' x 46, 718)

CONTRACT DATE (11/25/25 2' @ 4MAN)

DESIGN FLOW PER VIEWPOINT

Sheet F.232



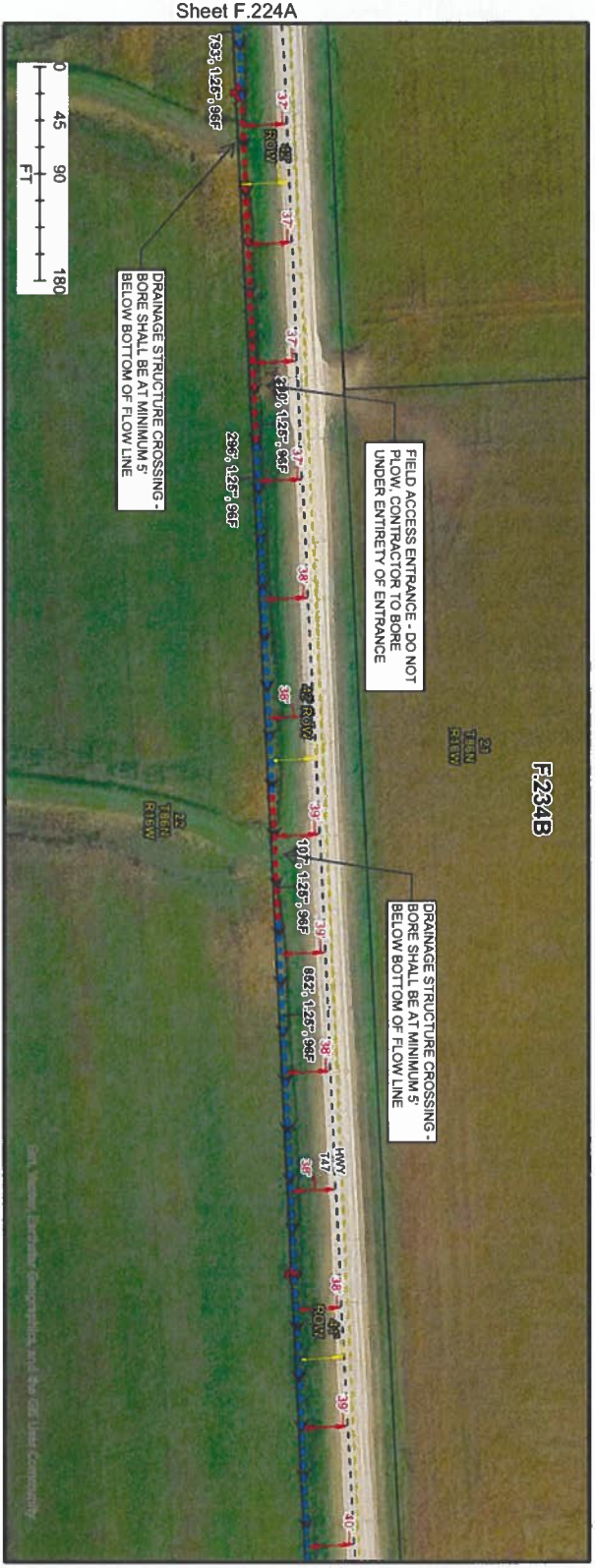
- 24"x36"x24" Slab
- 30"x48"x24" Splice
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- Existing
- Bore 1.25" SDR 13.5
- Bore 2" SDR 11
- Bore 7" SDR 13.5
- Plow 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PRI)	
INITIALS	MARU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MNU
DATE	11/25/2025
REVISION 1	
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Sheet F.233



Sheet F.233B



Sheet F.234A

MidAmerican Energy  
olsson

- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25" SDR 13.5
- Bore, 2" SDR 11
- Bore, 2" SDR 13.5
- Plow, 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- + Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee Crossings
- NMTI Feature
- X Public Railroad
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PR)	
INITIALS	MARU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
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REVISIONS: 1. MARU 11/25/2025

2. ASBUILT 11/25/2025

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Sheet F.234










F238A

Sheet F.238B




F238B

Sheet F.239A



**MidAmerican**  
renew.



**Olsson**

	24"x36"x24" Slack
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore 1.25", SDR 13.5
	Bore 2", SDR 11
	Bore 2", SDR 13.5
	Plow, 1.25", SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township,
	Range
	High-Pressure Gas
	Levee, Crossings
	NW1 Feature
	Public Railroad
	Crossings
	Drainage districts
	Drainage District
	Infrastructure
	Iowa cemeteries

90 PERCENT REVIEW (PRI)	
INITIALS	MARU
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INITIALS	MARU
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REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBULT	
INITIALS	
DATE	

Including: 1.00, 100.03

XAX: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XBY: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XCD: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XDE: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XEF: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XFG: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XGH: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XHI: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XIJ: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XJK: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XLM: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XNO: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XOP: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XQR: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XST: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XUV: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XWX: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XYZ: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XAA: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XBB: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XCC: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XDD: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XEE: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XFF: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XGG: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XHH: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XII: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XJJ: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XKK: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XLL: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XMM: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XNN: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XOO: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XPP: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XQQ: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XRR: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XSS: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XTT: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XUU: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XVV: 2" X40' → FIBER COUNT (24, 48, 96, 216)

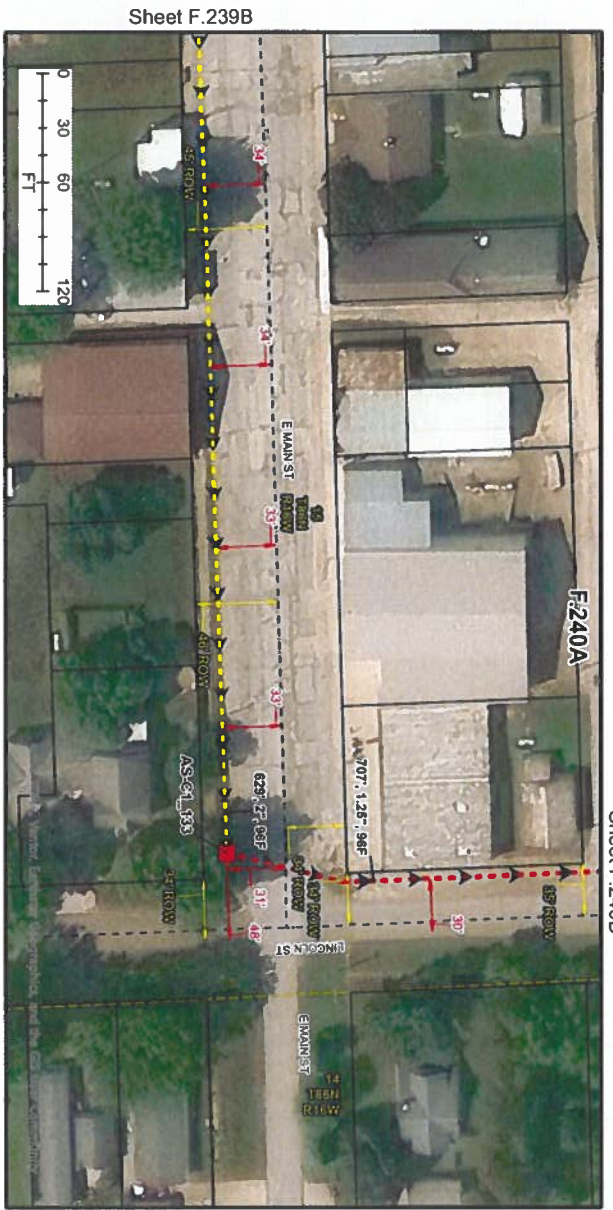
XWW: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XXX: 2" X40' → FIBER COUNT (24, 48, 96, 216)

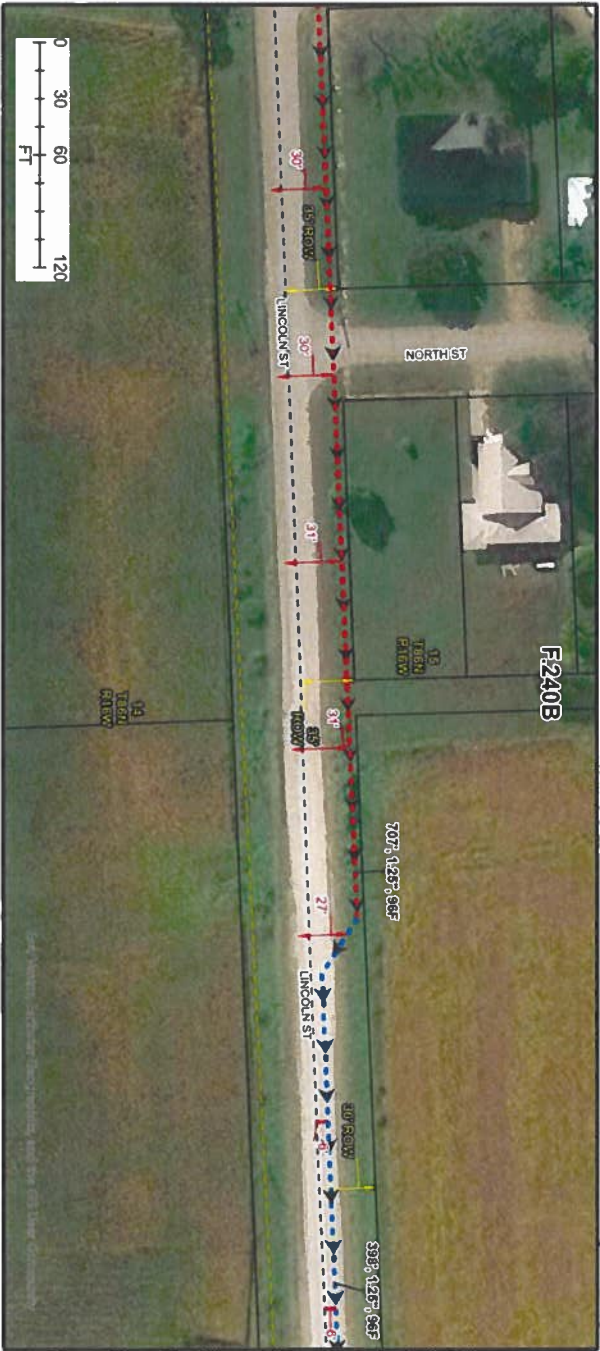
XYY: 2" X40' → FIBER COUNT (24, 48, 96, 216)

XZZ: 2" X40' → FIBER COUNT (24, 48, 96, 216)

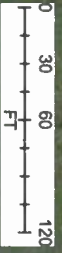






Sheet F.239B




Sheet F.240A



Sheet F.240B



N

	24"x36"x24" Shack
	30"x48"x24" Splice
	30"x48"x24" Interconnect
	Existing
	Bore, 1.25" SDR 13.5
	Bore, 2" SDR 11
	Bore, 2" SDR 13.5
	Plow, 1.25" SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Mile Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee Crossings
	NWI Feature
	Public Railroad Crossings
	Drainage districts
	Drainage District Infrastructure
	lowa centerlines

90 PERCENT REVIEW (PR)	
INITIALS	MNU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MNU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

DRAWING LOG SHEET

KAY, Z. KAY → 11/25/2025 12:44 PM 2/16

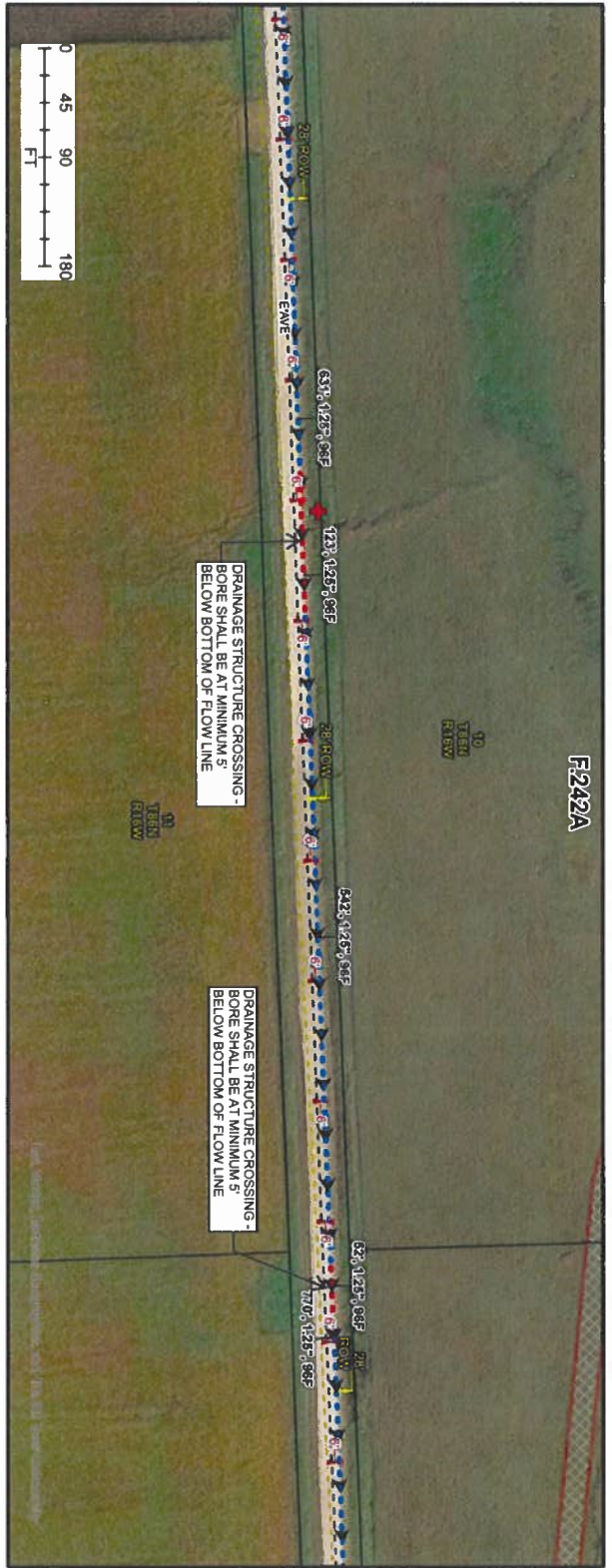
COMBUSTIBLE 1.25" 2" (LAW)

DESIGN IN LOW RISK VELOCITY

Sheet F.240



Sheet F.241B



DRAINAGE STRUCTURE CROSSING -  
BORE SHALL BE AT MINIMUM 5'  
BELOW BOTTOM OF FLOW LINE

DRAINAGE STRUCTURE CROSSING -  
BORE SHALL BE AT MINIMUM 5'  
BELOW BOTTOM OF FLOW LINE

F242A


Sheet F.242B



DRAINAGE STRUCTURE CROSSING -  
BORE SHALL BE AT MINIMUM 5'  
BELOW BOTTOM OF FLOW LINE

F242B

Sheet F.243A

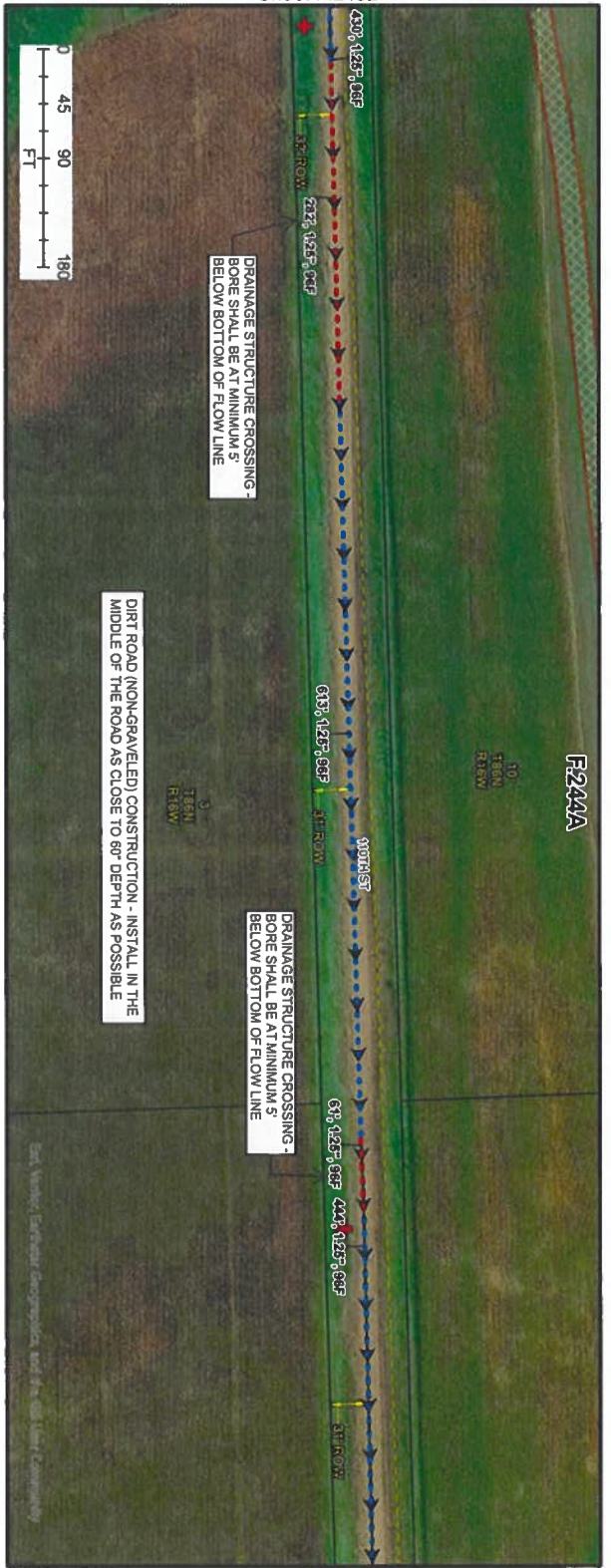


olsson

- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25", SDR 13.5
- Bore, 2", SDR 11
- Bore, 2", SDR 13.5
- Pilew, 1.25", SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- + Marker Posts
- + DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee, Crossings
- NMT Feature
- X Public Railroad Crossings
- Drainage districts
- Drainage District Infrastructure
- Iowa cemeteries

90 PERCENT REVIEW (PRI)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	





Sheet F.244B



Sheet F.245A

MidAmerican Energy

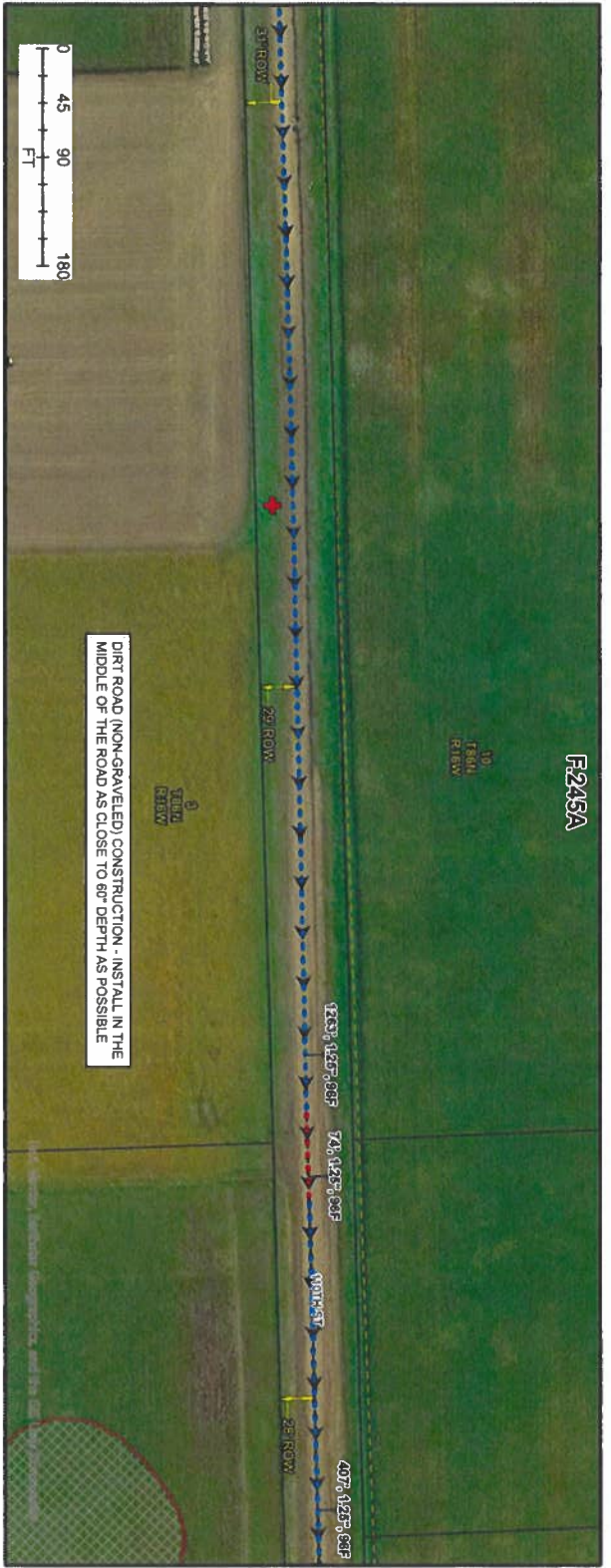
olsson

<span style="color: red;">■</span>	24"x36"x24" Slack
<span style="color: blue;">■</span>	30"x48"x24" Splice
<span style="color: yellow;">■</span>	30"x48"x24" Interconnect
<span style="color: orange;">■</span>	Existing
<span style="color: red;">●</span>	Bore 1.25" SDR 13.5
<span style="color: blue;">●</span>	Bore 2" SDR 11
<span style="color: yellow;">●</span>	Bore 2" SDR 13.5
<span style="color: orange;">●</span>	Plow 1.25" SDR 13.5
<span style="color: red;">—</span>	MEC Existing
<span style="color: blue;">—</span>	Running Line
<span style="color: yellow;">—</span>	ROW
<span style="color: orange;">—</span>	Centerline
<span style="color: red;">+</span>	Marker Posts
<span style="color: blue;">●</span>	DOT Stationing Points
<span style="color: yellow;">●</span>	Mile Markers
<span style="color: orange;">□</span>	ROW
<span style="color: red;">□</span>	Section, Township, Range
<span style="color: blue;">□</span>	High-Pressure Gas
<span style="color: yellow;">□</span>	Levee, Crossings
<span style="color: orange;">□</span>	NWI Feature
<span style="color: red;">□</span>	Public Railroad
<span style="color: blue;">□</span>	Crossings
<span style="color: yellow;">□</span>	Drainage districts
<span style="color: orange;">□</span>	Drainage District Infrastructure
<span style="color: red;">□</span>	Iowa cemeteries

90 PERCENT REVIEW (FR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

AXA 2" X 11" = 1" FIELD COUNT (N 48 W 21B)  
 LAYOUT FOOTING  
 DESIGN IN LOW REVISION REPORT

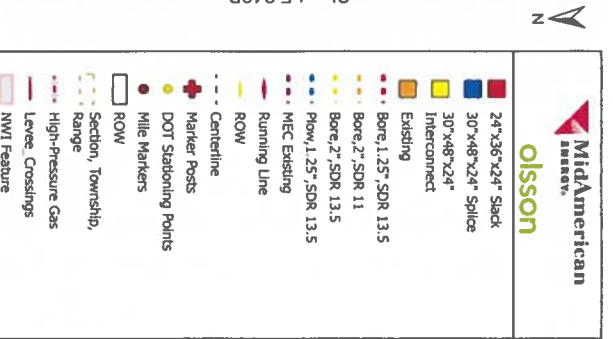
Sheet F.244



Sheet F.245B



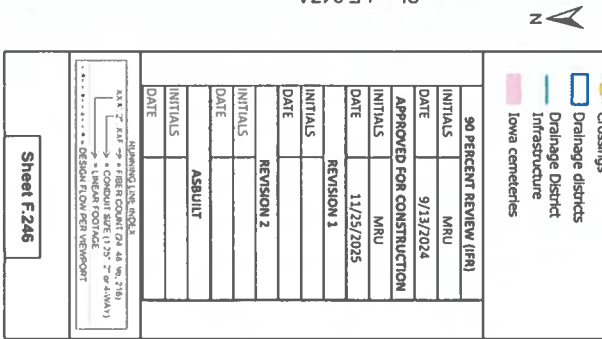
Sheet F.246B




Sheet F.246A



Sheet F.247A





**MidAmerican**  
ENERGY

**olsson**

<span style="color: red;">■</span>	24"x36"x24" Slab
<span style="color: blue;">■</span>	30"x48"x24" Splice
<span style="color: yellow;">■</span>	30"x48"x24" Interconnect
<span style="color: orange;">■</span>	Existing
<span style="color: red;">■</span>	Bore, 1.25" SDR 13.5
<span style="color: blue;">■</span>	Bore, 2" SDR 11
<span style="color: yellow;">■</span>	Bore, 1.25" SDR 13.5
<span style="color: orange;">■</span>	Plow, 1.25" SDR 13.5
<span style="color: red;">■</span>	MEC Existing
<span style="color: blue;">■</span>	Running Line
<span style="color: yellow;">■</span>	ROW
<span style="color: orange;">■</span>	Centerline
<span style="color: red;">+</span>	Marker Posts
<span style="color: blue;">●</span>	DOT Stationing Points
<span style="color: yellow;">●</span>	Millie Markers
<span style="color: orange;">□</span>	ROW
<span style="color: red;">-</span>	Section, Township, Range
<span style="color: blue;">-</span>	High-Pressure Gas
<span style="color: yellow;">-</span>	Levee, Crossings
<span style="color: orange;">-</span>	NMT Feature
<span style="color: red;">-</span>	Public Railroad
<span style="color: blue;">-</span>	Crossings
<span style="color: yellow;">-</span>	Drainage districts
<span style="color: orange;">-</span>	Drainage District Infrastructure
<span style="color: red;">-</span>	Long centerlines

90 PERCENT REVIEW (PRI)	INITIALS	MRU
DATE	9/13/2024	
APPROVED FOR CONSTRUCTION		
INITIALS	MRU	
DATE	11/25/2025	
REVISION 1		
INITIALS		
DATE		
REVISION 2		
INITIALS		
DATE		
ASBUILT		
INITIALS		
DATE		

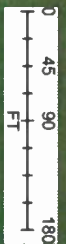
DRAWING LINK: [LINK](#)

AXE 2' X 1/2" X 1/2" → FIBER COUNT: 94 48 W, 218

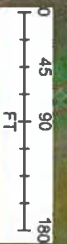
CONDUIT SIZE: 1.315" (2" O.D. ALUMINUM)

DESIGN FLOW PER VIDEO REPORT

Sheet F.246



DIRT ROAD (NON-GRAVELED) CONSTRUCTION - INSTALL IN THE MIDDLE OF THE ROAD AS CLOSE TO 80' DEPTH AS POSSIBLE



CULVERT STRUCTURE - CONTRACTOR TO FIELD LOCATE AND BORE A MIN. 10' BELOW BOTTOM OF STRUCTURE

FIELD ACCESS ENTRANCE - DO NOT FLOW, CONTRACTOR TO BORE UNDER ENTIRETY OF ENTRANCE



olsson

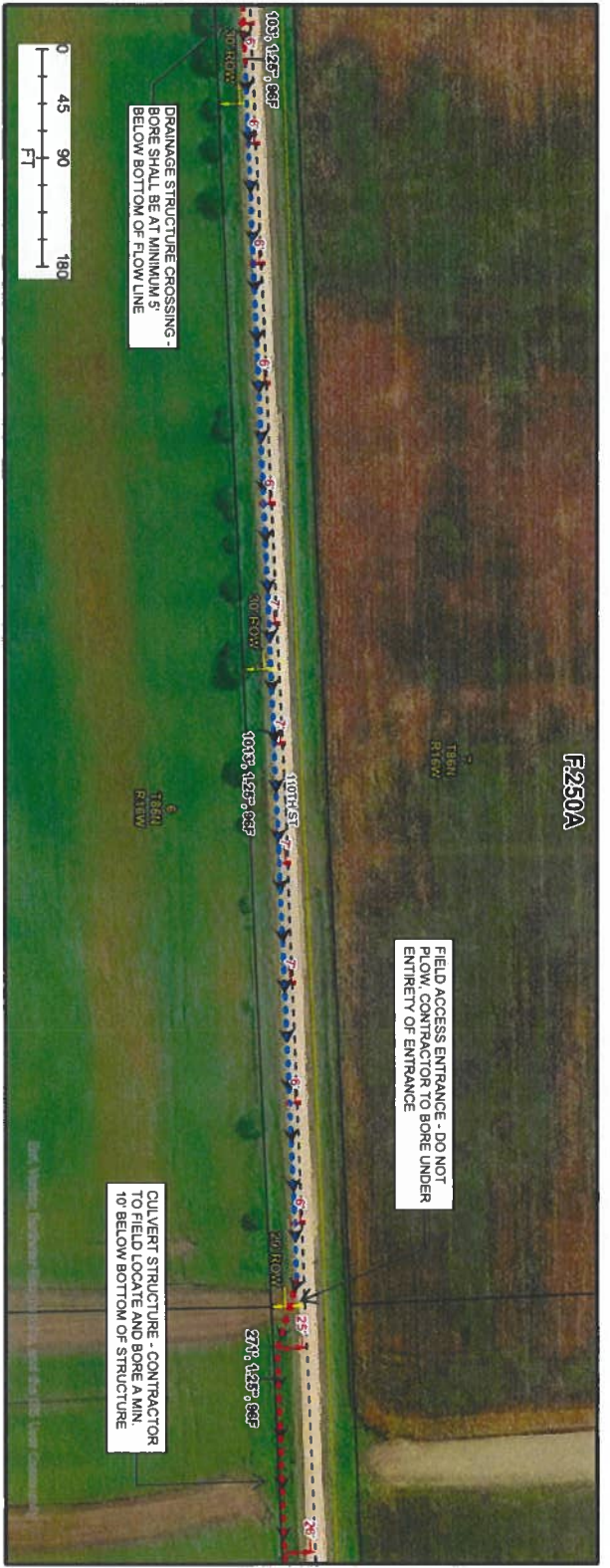
- 24"x36"x24" Slack
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore 1.25" SDR 13.5
- Bore 2" SDR 11
- Bore 2" SDR 13.5
- Plow 1.25" SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee, Crossings
- NWI Feature
- Public Railroad
- Crossings
- Drainage districts
- Drainage District Infrastructure
- Long centerlines

90 PERCENT REVIEW (PR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	



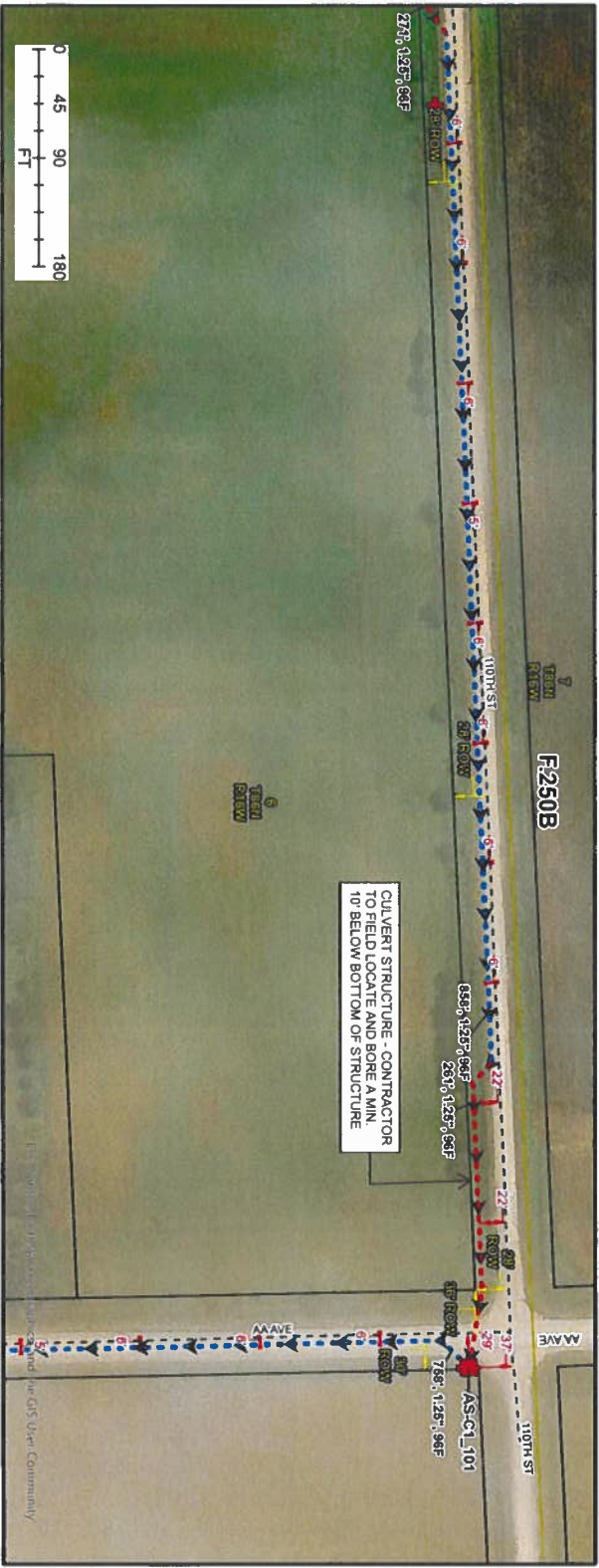


Sheet F.249B



Sheet F.250B

Sheet F.250A



Sheet F.251A



- 24"x36"x24" Slab
- 30"x48"x24" Splice
- 30"x48"x24" Interconnect
- Existing
- Bore, 1.25' SDR 13.5
- Bore, 2" SDR 11
- Bore, 2" SDR 13.5
- Flow, 1.25' SDR 13.5
- MEC Existing
- Running Line
- ROW
- Centerline
- Marker Posts
- DOT Stationing Points
- Mile Markers
- ROW
- Section, Township, Range
- High-Pressure Gas
- Levee, Crossings
- NMT Feature
- Public Railroad
- Drainage districts
- Drainage District Infrastructure
- Long cemeteries

90 PERCENT REVIEW (PRI)	MRU
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/25/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

MUNICIPALITY OF ASBUILT  
 AXZ Z AXZ → EBER COAST GA 44 W 216  
 → COAST RDZ 13.7' → 24.4MAY1  
 → DESIGH ROW PER VENDOR

Sheet F.250






Sheet F.252B



Sheet F.253A



**MidAmerican**  
ENERGY

**olsson**

	24"x36"x24" Slab
	30"x48"x24" Splice
	30"x48"x24"
	Interconnect
	Existing
	Bore, 1.25", SDR 13.5
	Bore, 2", SDR 11
	Bore, 2", SDR 13.5
	Flow, 1.25", SDR 13.5
	MEC Existing
	Running Line
	ROW
	Centerline
	Marker Posts
	DOT Stationing Points
	Millie Markers
	ROW
	Section, Township, Range
	High-Pressure Gas
	Levee, Crossings
	NWI Feature
	Public Railroad
	Crossings
	Drainage Districts
	Drainage District Infrastructure
	Iowa centerlines

90 PERCENT REVIEW (PR)	
INITIALS	MRU
DATE	9/13/2024
APPROVED FOR CONSTRUCTION	
INITIALS	MRU
DATE	11/29/2025
REVISION 1	
INITIALS	
DATE	
REVISION 2	
INITIALS	
DATE	
ASBUILT	
INITIALS	
DATE	

ASBUILT  
 REVISION 2  
 REVISION 1  
 APPROVED FOR CONSTRUCTION  
 90 PERCENT REVIEW (PR)  
 DESIGN FLOW PER WINDROT  
 DESIGN FLOW (7.25' x 4.4M)  
 DESIGN FLOW (7.25' x 4.4M)  
 DESIGN FLOW (7.25' x 4.4M)  
 DESIGN FLOW (7.25' x 4.4M)

Sheet F.252

TAMA COUNTY UTILITY PERMIT APPLICATION

713352809. PR#47234

This is a Utility Permit Application for telecommunications, electric, gas, water and sewer utilities. The applicant agrees to comply with the following permit requirements. Compliance shall be determined by the sole discretion of the County Engineer as deemed necessary to promote public health, safety and the general welfare. These requirements shall apply unless waived in writing by the County Engineer prior to installation.

Applicant Name: Windstream Iowa Communications, LLC

Street Address: 4005 N. Rodney Parham.

City, State & Zip Code: Little Rock, AR 72212

Telephone Number: 501-748-4601

Contact Person: Matt Graham. Matthew.Graham@uniti.com. 515-491-7010

1. **Location Plan.** An applicant shall file a completed location plan as an attachment to this Utility Permit Application. The location plan shall set forth the location of the proposed line on the secondary road system and include a description of the proposed installation.
2. **Written or Verbal Notice.** At least two working days prior to the proposed installation, an applicant shall file with the County Engineer a notice stating the time, date, location and nature of the proposed installation.
3. **Inspection.** The County Engineer shall provide a full-time inspector during all permitted work done by a third party contractor. The inspector shall have the right, during reasonable hours and after showing proper identification, to enter any installation site in the discharge of the inspector’s official duties, and to make any inspection or test that is reasonably necessary to protect the public health, safety and welfare. The cost of providing this inspection service shall be paid by the permit holder upon submission by Tama County of a bill for such services. All requirements listed in 4. **Requirements** shall be met (less written exemptions) regardless of whom actually performs the work.
4. **Requirements.** The installation inspector shall assure that the following requirements have been met:
  - A) Construction signing shall comply with the Manual on Uniform Traffic Control Devices.
  - B) Depth – The minimum depth of cover shall be as follows:  
 Telecommunications....36”      Electric.....48”  
 Gas.....48”      Water.....60”      Sewer.....60”  
 If the utility is installed in the road ditch and if the ditch has silted in above the original flowline, add the depth of silting to the “minimum depth” to obtain the required depth in a particular location.
  - C) The applicant shall use reference markers in the right of way (“R.O.W.”) boundary to locate line and changes in alignment as required by the County Engineer. A permanent warning tape shall be placed one (1) foot above all underground utility lines.
  - D) All tile line locations shall be marked with references located in the R.O.W. line.
  - E) No underground utility lines shall cross over a crossroad drainage structure.
  - F) Residents along the utility route shall have uninterrupted access to the public roads. An all-weather access shall be maintained for residents adjacent to the project.
  - G) A joint assessment of the road surfacing shall be made by the applicant and the County Engineer both before and after construction. After construction, granular surfacing shall be added to the road by the applicant to restore the road to its original condition. After surfacing has been applied, the road surface shall be reviewed by the County Engineer (after the road has been saturated), to determine if additional surfacing on the roadway by the applicant is necessary.

- H) All damaged areas within the R.O.W. shall be repaired and restored to at least its former condition by the applicant or the cost of any repair work caused to be performed by the County will be assessed against the applicant.
- I) Areas disturbed during construction which present an erosion problem shall be solved by the applicant in a manner approved by the County Engineer.
- J) All trenches, excavations, and utilities that are knifed shall be properly tamped.
- K) All utilities shall be located between the bottom of the backslope and the bottom of the foreslope, unless otherwise approved in writing by the County Engineer prior to installation.
- L) Road crossings shall be bored. The minimum depth below the road surface shall match the minimum depth of cover for the respective utility. All entrances with culverts shall either be bored or, the utility shall be placed at least 24" below the bottom elevation of the culvert.

5. Non-Conforming Work. The County Engineer may halt the installation at any time if the applicant's work does not meet the requirements set forth in this Utility Permit.
6. Emergency Work. In emergency situations, work may be initiated by an applicant without first obtaining a Utility Permit. However, a Utility Permit must be obtained within fourteen (14) days of initiation of the work. All emergency work shall be done in conformity with the provisions of this ordinance and shall be inspected for full compliance.
7. County Infraction. Violation of this permit is a county infraction under Iowa Code section 331.307, punishable by a civil penalty of \$100 for each violation or if the infraction is a repeat offense a civil penalty not to exceed two hundred dollars for each repeat offense. Each day that a violation occurs or is permitted to exist by the applicant constitutes a separate offense.
8. Hold Harmless. The utility company shall save this County harmless of any damages resulting from the applicant's operations. A copy of a certificate of insurance naming this county as an additional named insured for the permit work shall be filed in the County Engineer's office prior to installation. The minimum limits of liability under the insurance policy shall be \$1,000,000.
9. Permit Required. No applicant shall install any lines unless such applicant has obtained a Utility Permit from the county Engineer and has agreed in writing that said installation will comply with all ordinances and requirements of the County for such work. Applicants agree to hold the County free from liability for all damage to applicant's property which occurs proximately as a result of the applicant's failure to comply with said ordinances or requirements.
10. Relocation. The applicant shall, at any time subsequent to installation of utility lines, at the applicant's own expense, relocate or remove such lines as may become necessary to conform to new grades, alignment or widening of R.O.W. resulting from maintenance or construction operations for highway improvements.

DATE 3/26/26 Windstream Iowa Communications, LLC BY Amber Bapst  
 NAME OF COMPANY Amber Bapst- Analyst I, OSP Engineering Support

RECOMMENDED FOR APPROVAL:

DATE 3/26/26

[Signature]  
 TAMA COUNTY ENGINEER

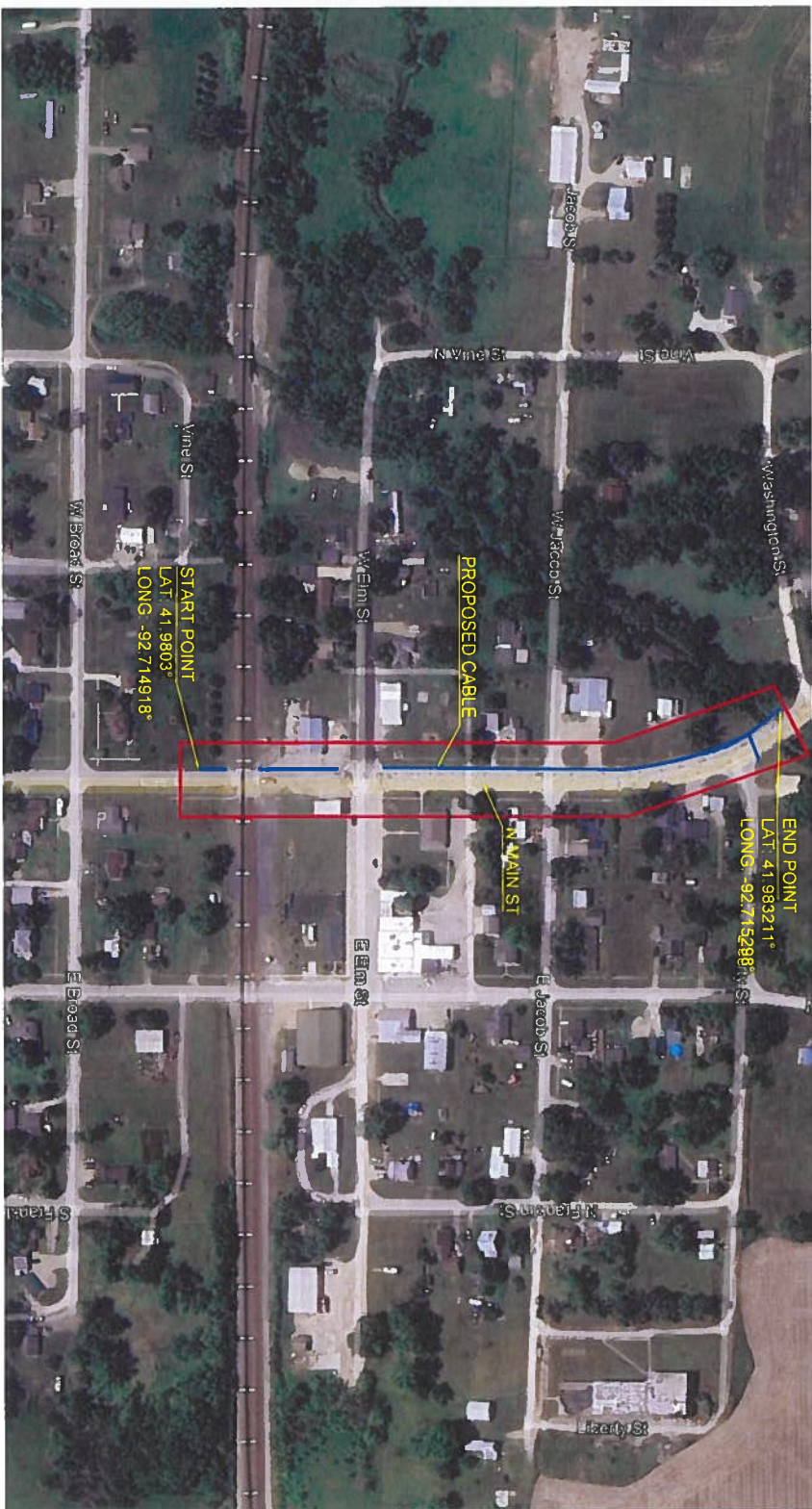
APPROVAL:

DATE \_\_\_\_\_

\_\_\_\_\_  
 CHAIRPERSON, TAMA COUNTY BOARD OF SUPERVISORS

# VICINITY MAP

KINETIC LOCATION MAP- TAMA COUNTY PERMIT.  
 FOR ALL CROSSING AND LONGITUDINAL UTILITY DEPTH UNDER ALL PAVEMENT 4' AND UNPAVED 3'.  
 KINETIC PROPOSES TO PLACE 814' OF 48-CT, 170 OF 144-CT,  
 AND 152' OF 12.7MM 2W MICRODUCT OF BURIED CABLE WITH IN THE ROW.  
 DIRECT BORE METHOD=1,136'.  
 TOTAL PROPOSED CABLE=1,136'.  
 NUM.OF 8" PED = 4, 10" PED=1, & FLOWER POT=2

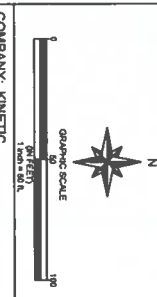


<p><b>⚠️ DIG ALERT: 811 KNOW WHAT'S BELOW PLEASE CALL BEFORE YOU DIG</b>                  FOR THE PURPOSE OF PROVIDING FIBER OPTIC CABLE FOR INTERNET ACCESS</p>	
UG FOOTAGE DETAILS	
DESCRIPTION	FOOTAGE
BORE IN 1.25" CONDUIT	1,136' L/F
DIRECT BURIED	0' L/F
TRENCH	0' L/F
DRY BORE	0' L/F
TOTAL	1,136' L/F

STRUCTURE DETAILS	
FLOWER POT	2 EA
8" PED	4 EA
10" PED	1 EA
AERIAL TERMINAL	0 EA

AERIAL FOOTAGE DETAILS	
NEW 10M STRAND	0' L/F
FLASHING	0' L/F
NO LASHING	0' L/F
TOTAL	0' L/F

DATE CREATED: 03/19/2028  
 DATE REVISED:  
 DRAWN BY: CYIENT INC



COMPANY: KINETIC  
 SYSTEM: MONTOUR, IA  
 PROJECT NUMBER: 713352808  
 DESCRIPTION: SEFH11577  
 COA1\_SERVING\_AREA  
 MAP: VICINITY MAP  
 CYIENT INC

LEGEND		
JOINT USEPOWER POLE		PROPOSED PED
UTILITY POLE		PROPOSED AERIAL TERMINAL
DIRECT BURIED FOC		EXISTING AERIAL TERMINAL
BORE		BORE PIT 5'x4'x4'
TRENCH		EXISTING HH
INNERDUCT		EXISTING FIBER PED
DRY BORE		EXISTING COPPER PED
NEW STRAND		CULVERT
ELASH		EXISTING KINETIC FIBER PLACEMENT TYPE - AERIAL
12.7 MM OF 2W MICRODUCT BY DIRECT BORE		EXISTING KINETIC FIBER PLACEMENT TYPE - BURIED
12.7 MM OF 2W MICRODUCT BY DIRECT BURY		EXISTING KINETIC COPPER PLACEMENT- AERIAL
12.7 MM OF 2W MICRODUCT BY TRENCH		EXISTING KINETIC COPPER PLACEMENT- BURIED
EDGE OF PAVEMENT		EXISTING MANHOLE
RIGHT OF WAY		GAS MARKER
CENTER LINE		UTILITY MARKER
BACK OF CURB		WATER HYDRANT
EDGE OF TRAVEL LINE		RR TRACK
SIDEWALK		BRIDGE
DRIVEWAY		GAS LINE
DITCH LINE		WATER LINE
EXISTING KINETIC AERIAL CABLE		SEWER LINE
EXISTING KINETIC BURIED CABLE		STORM LINE
EXISTING KINETIC AERIAL CABLE		ELECTRIC LINE
EXISTING KINETIC BURIED CABLE		
EXISTING FDH		
PROPOSED FDH		

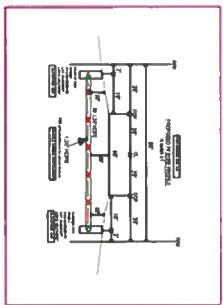
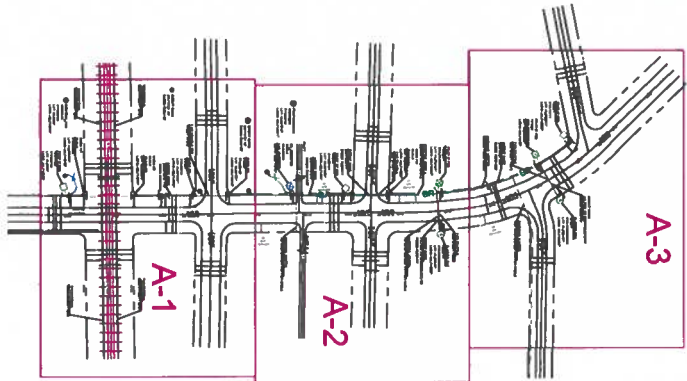
DATE CREATED: 03/19/2026  
 DATE REVISED:  
 DRAWN BY: CYIENT INC  
 SHEET:

GRAPHIC SCALE  
 0 10 20 30 40 50 60 70 80 90 100  
 1" = 100'

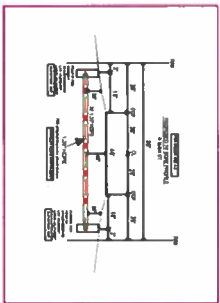
COMPANY: KINETIC  
 SYSTEM: MONTOUR\_LA  
 PROJECT NUMBER: 713352808  
 DESCRIPTION: SEPH11577  
 COA1\_SERVING\_AREA

SHEET: **LEGEND**  
**CYIENT INC**

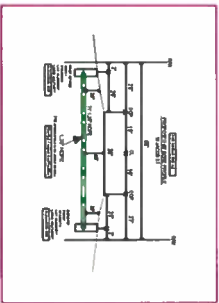
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A-3(1)



A-2(2)

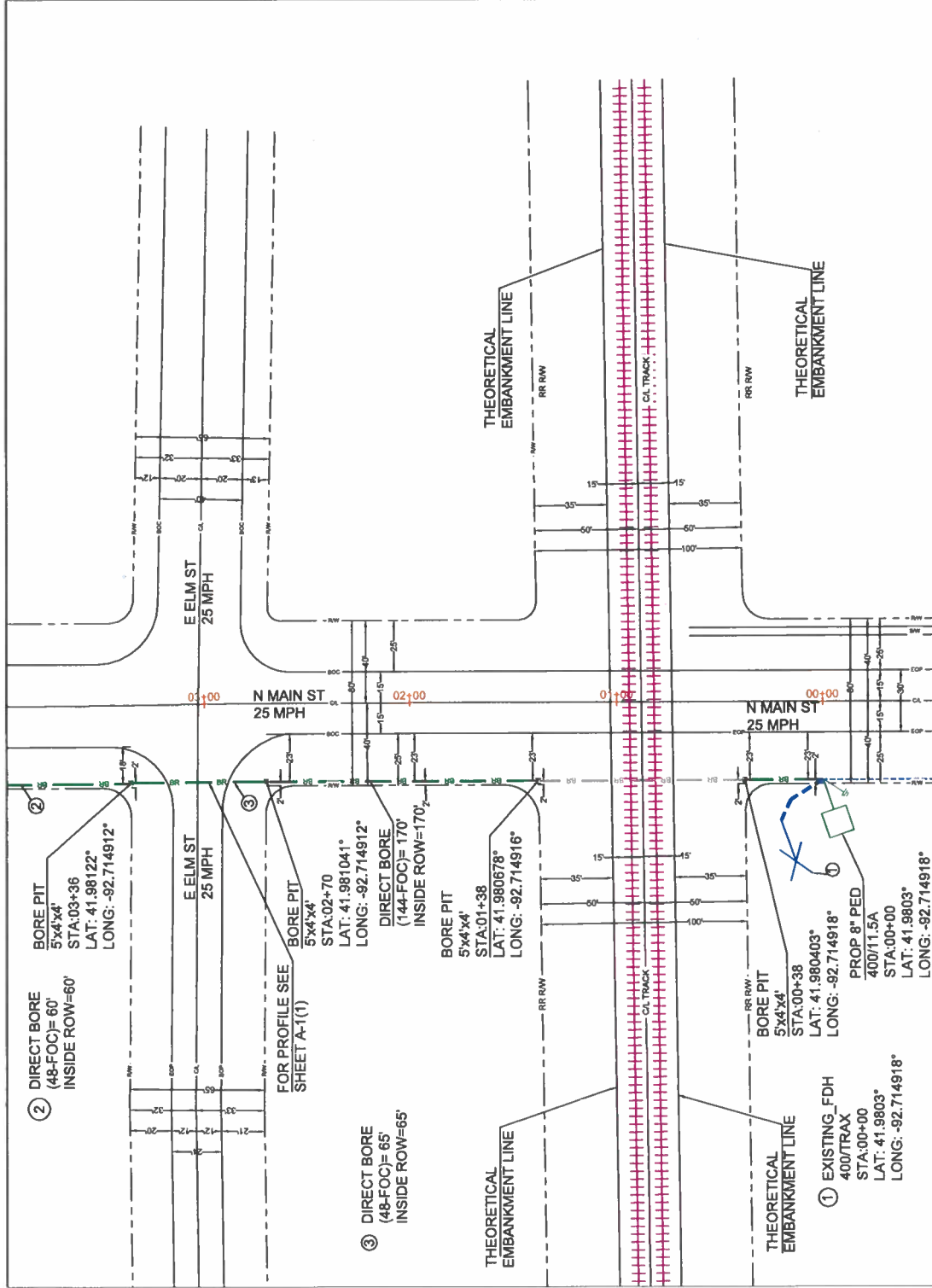


A-2(1)

A-1(1)

DATE CREATED:	03/19/2029
DATE REVISED:	
DRAWN BY:	CYIENT INC
<p>GRAPHIC SCALE 0 50 100 FEET 0 10 20 METERS</p>	
COMPANY :	KINETIC
SYSTEM:	MONTOUR_LA
PROJECT NUMBER:	713352808
DESCRIPTION:	SEPH11577 COA1_SERVING_AREA
SHEET:	KEY MAP
CYIENT INC	

A-2 (STA: 03+96)



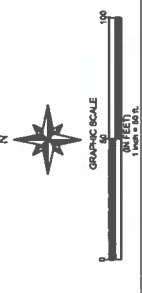
**⚠️ DIG ALERT: 811 KNOW WHAT'S BELOW PLEASE CALL BEFORE YOU DIG FOR THE PURPOSE OF PROVIDING FIBER OPTIC CABLE FOR INTERNET ACCESS**

UG FOOTAGE DETAILS	
DESCRIPTION	FOOTAGE
BORE IN 1.25" CONDUIT	285' LF
DIRECT BURIED	0' LF
TRENCH	0' LF
DRY BORE	0' LF
TOTAL	285' LF

STRUCTURE DETAILS	
FLOWER POT	0 EA
8" PED	1 EA
10" PED	0 EA
AERIAL TERMINAL	0 EA

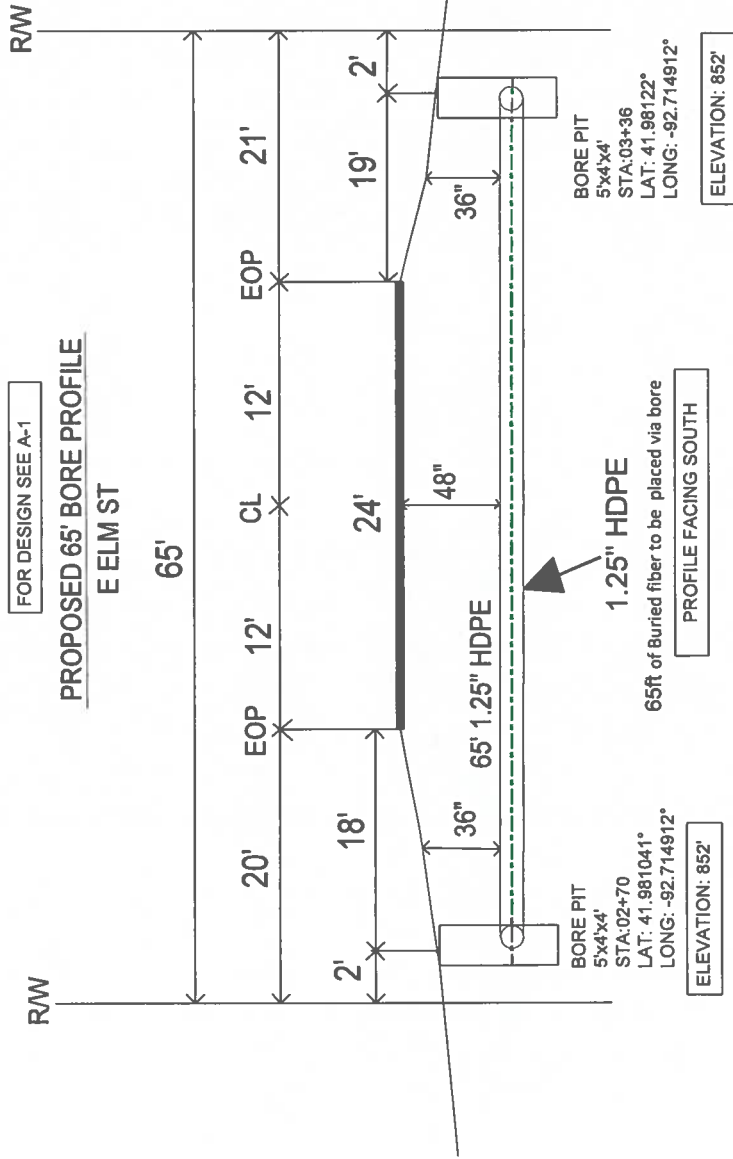
AERIAL FOOTAGE DETAILS	
NEW 10M STRAND	0' LF
ELASHING	0' LF
NO LASHING	0' LF
TOTAL	0' LF

DATE CREATED: 03/18/2028  
 DATE REVISED:  
 DRAWN BY: CYIENT INC



COMPANY: KINETIC  
 SYSTEM: MONTOUR IA  
 PROJECT NUMBER: 713352809  
 DESCRIPTION: SEPH1577  
 COA1\_SERVING\_AREA  
 SHEET: A-1

CYIENT INC



DATE CREATED: 03/19/2008  
DATE REVISED:  
DRAWN BY: CYIENT INC



COMPANY : KINETIC  
SYSTEM: MONTOUR\_LA  
PROJECT NUMBER: 713352809  
DESCRIPTION: SEFH11577  
COA1\_SERVING\_AREA  
SHEET: A-1(1)  
CYIENT INC

**⚠️ DIG ALERT: 811 KNOW WHAT'S BELOW PLEASE CALL BEFORE YOU DIG FOR THE PURPOSE OF PROVIDING FIBER OPTIC CABLE FOR INTERNET ACCESS**

UG FOOTAGE DETAILS	
DESCRIPTION	FOOTAGE
BORE IN 1.25" CONDUIT	528' LF
DIRECT BURIED	0' LF
TRENCH	0' LF
DRY BORE	0' LF
TOTAL	528' LF

STRUCTURE DETAILS	
FLOWER POT	1 E.A.
8" PED	1 E.A.
10" PED	1 E.A.
AERIAL TERMINAL	0 E.A.

AERIAL FOOTAGE DETAILS	
NEW 10M STRAND	0' LF
FLASHING	0' LF
NO LASHING	0' LF
TOTAL	0' LF

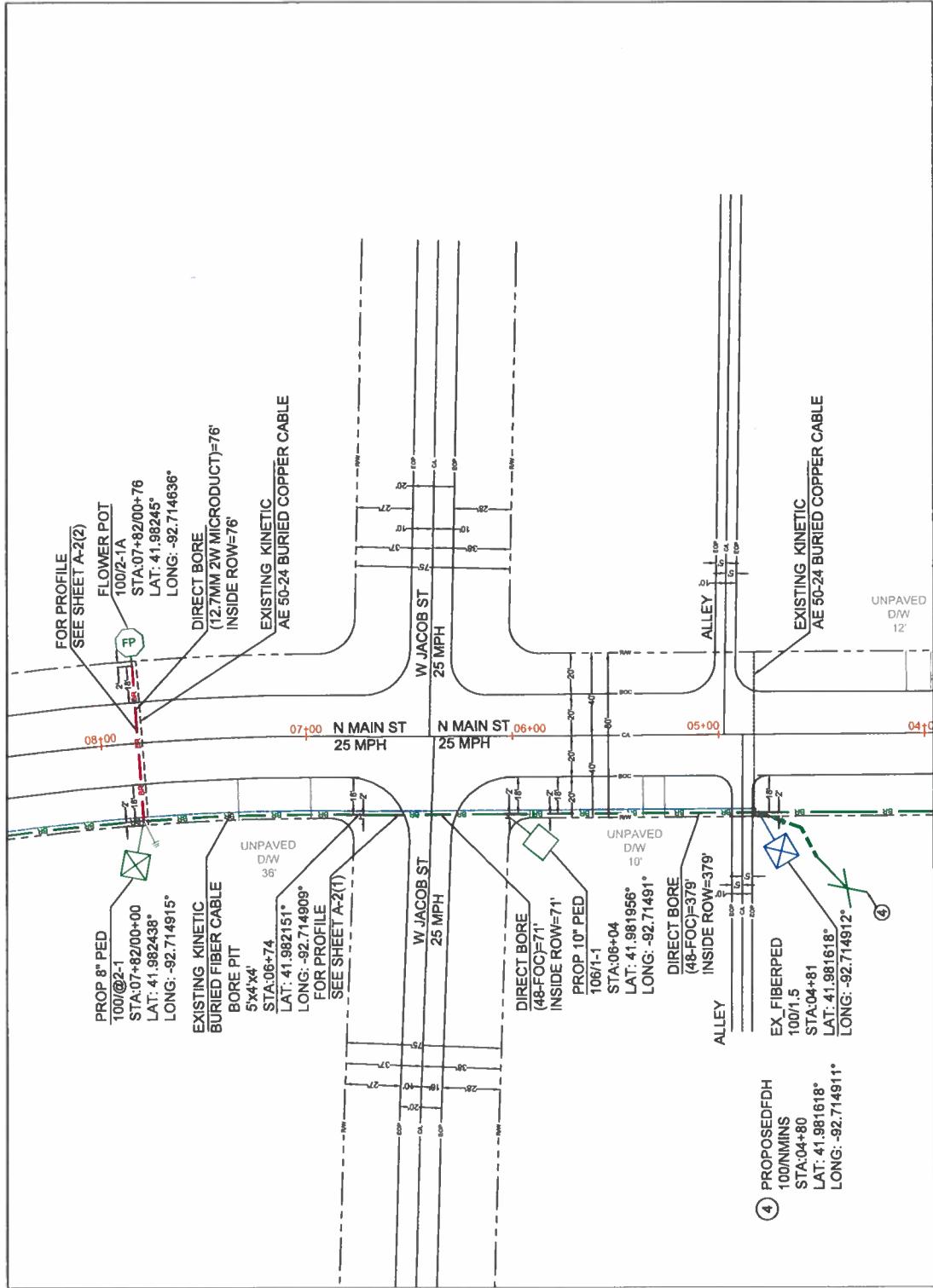
DATE CREATED: 03/18/2028  
 DATE REVISED:  
 DRAWN BY: CYIENT INC



COMPANY: KINETIC  
 SYSTEM: MONTOUR IA  
 PROJECT NUMBER: 713352809  
 DESCRIPTION: SEPH11577  
 COA1\_SERVING\_AREA

SHEET: A-2  
 CYIENT INC

A-3 (STA: 08+46)

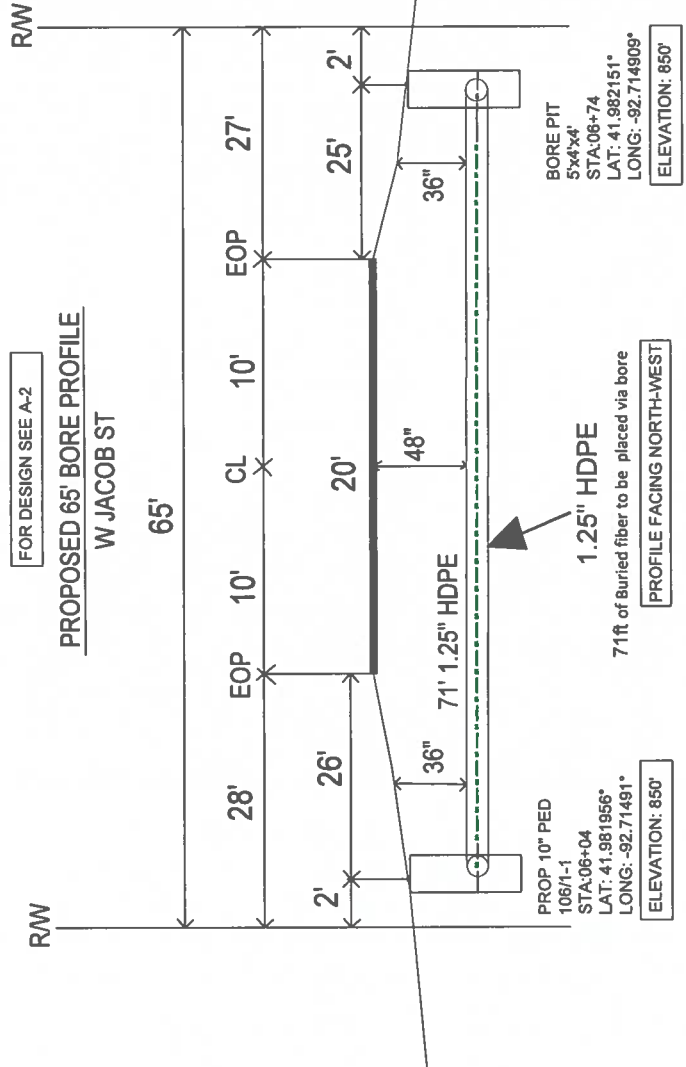


A-1 (STA: 03+96)

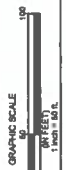
FOR DESIGN SEE A-2

**PROPOSED 65' BORE PROFILE**  
**W JACOB ST**

65'



DATE CREATED: 03/18/2028  
DATE REVISED:  
DRAWN BY: CYIENT INC



COMPANY :	KINETIC
SYSTEM :	MONTOUR_JA
PROJECT NUMBER :	71332809
DESCRIPTION :	SERH11577 COA1_SERVING_AREA
SHEET :	A-2(1)
	CYIENT INC



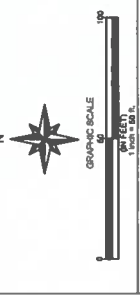
**⚠️ DIG ALERT: 811 KNOW WHAT'S BELOW PLEASE CALL BEFORE YOU DIG**  
 FOR THE PURPOSE OF PROVIDING FIBER OPTIC CABLE FOR INTERNET ACCESS

UG FOOTAGE DETAILS	
DESCRIPTION	FOOTAGE
BORE IN 1.25" CONDUIT	315' LF
DIRECT BURIED	0' LF
TRENCH	0' LF
DRY BORE	0' LF
TOTAL	315' LF

STRUCTURE DETAILS	
FLOWER POT	1 EA
8" PED	2 EA
10" PED	0 EA
AERIAL TERMINAL	0 EA

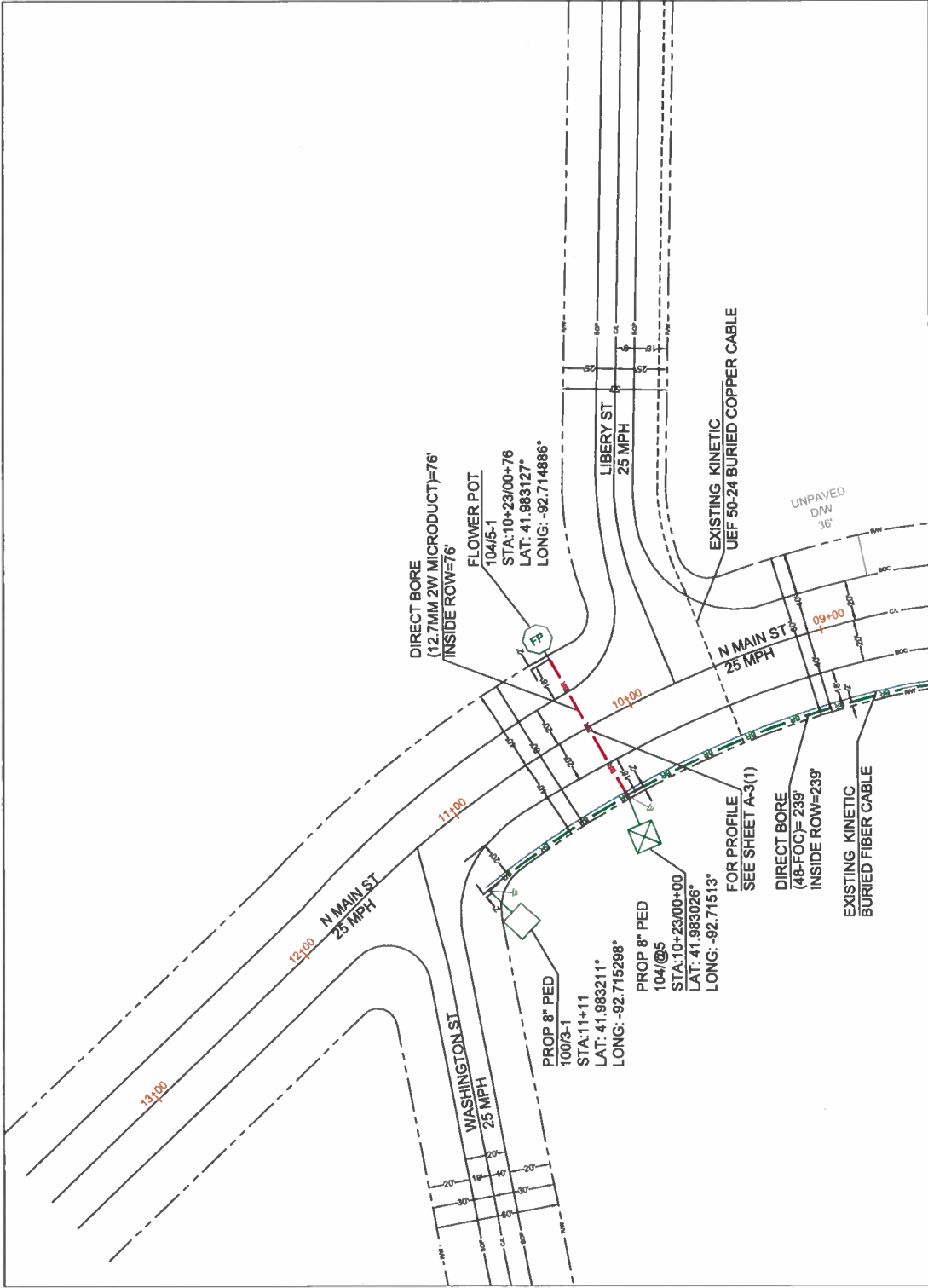
AERIAL FOOTAGE DETAILS	
NEW 10M STRAND	0' LF
ELASHING	0' LF
NO LASHING	0' LF
TOTAL	0' LF

DATE CREATED: 03/19/2028  
 DATE REVISED:  
 DRAWN BY: CYIENT INC

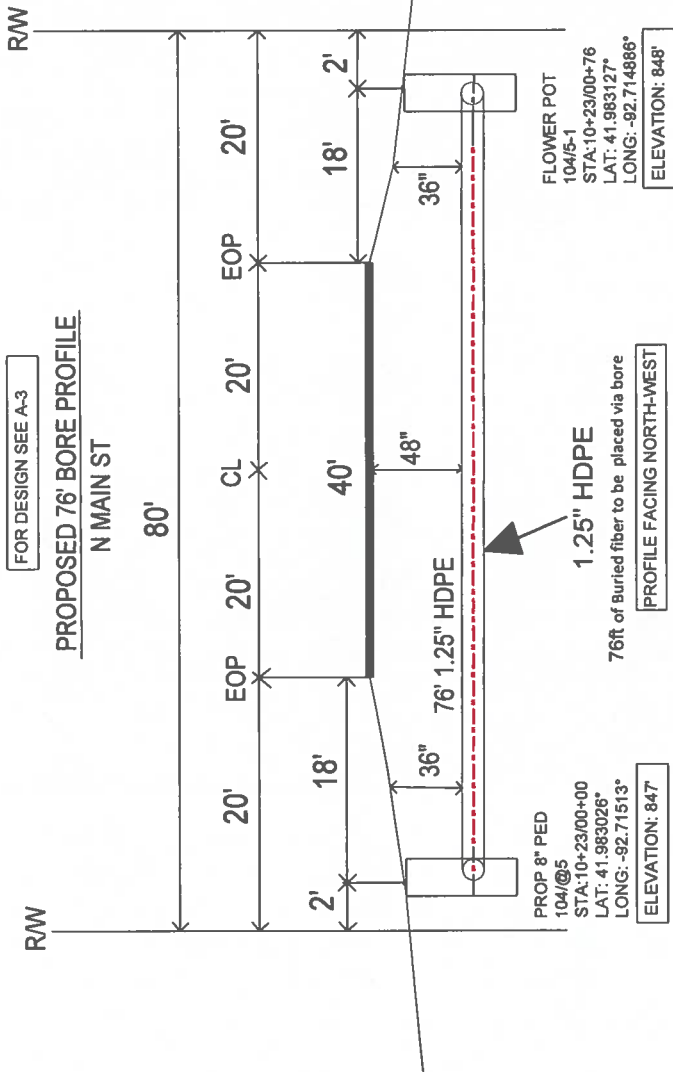


COMPANY: KINETIC  
 SYSTEM: MONTOUR IA  
 PROJECT NUMBER: 713352809  
 DESCRIPTION: SEPH11577  
 COA1\_SERVING\_AREA  
 SHEET: A-3

CYIENT INC



A-2 (STA: 08+46)



FOR DESIGN SEE A-3

**PROPOSED 76' BORE PROFILE**  
N MAIN ST

80'

20' EOP 20' CL 20' EOP 20' RW

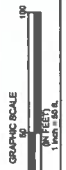
2' 18' 36" 76' 1.25" HDPE 48" 1.25" HDPE 36" 18' 2' RW

FLOWER POT  
104/5-1  
STA: 10+23/00+76  
LAT: 41.983127°  
LONG: -92.714888°  
ELEVATION: 848'

PROP 8" PED  
104/@5  
STA: 10+23/00+00  
LAT: 41.983026°  
LONG: -92.71513°  
ELEVATION: 847'

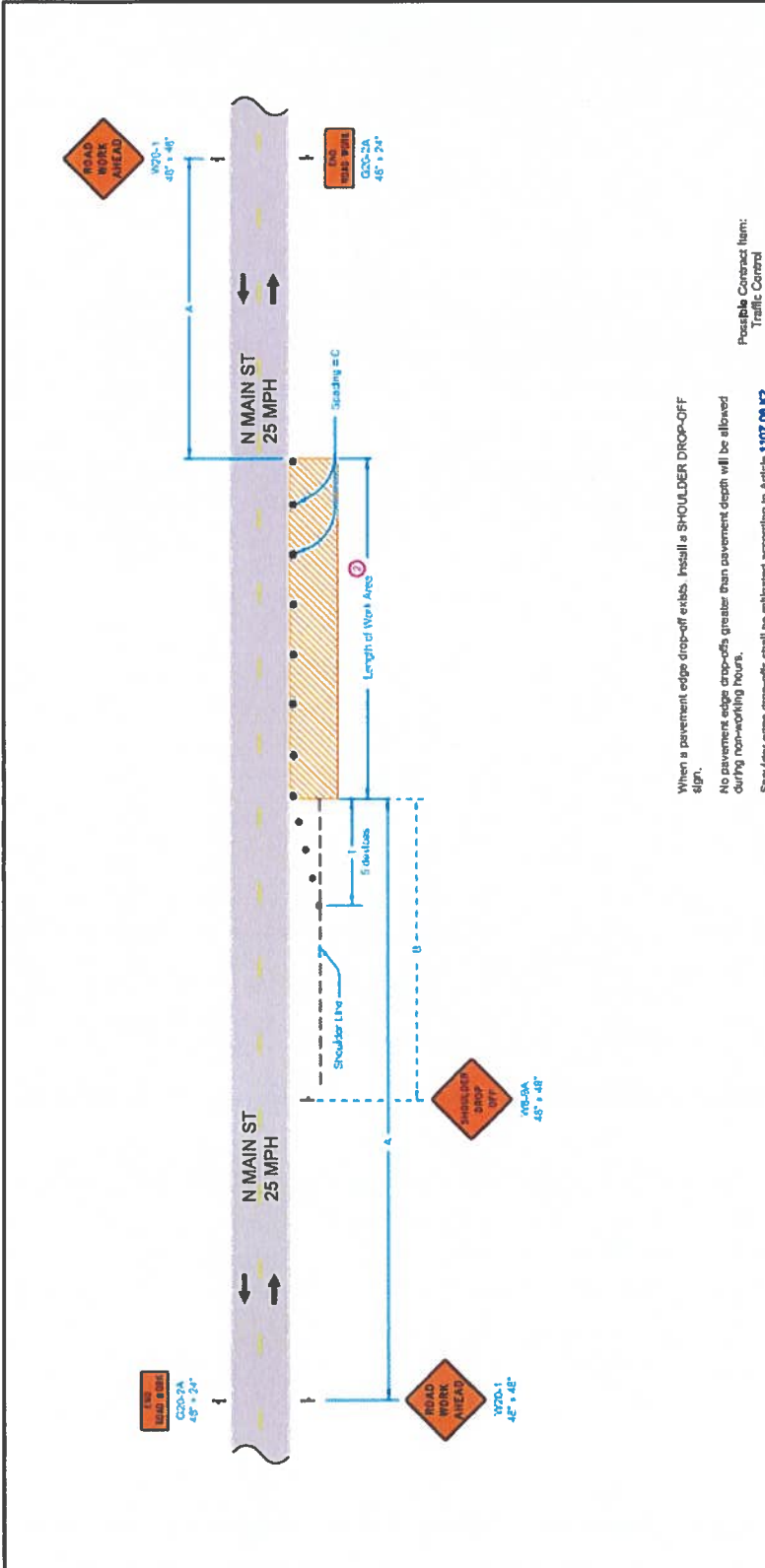
76ft of Buried fiber to be placed via bore

PROFILE FACING NORTH+WEST



DATE CREATED: 03/18/2028  
DATE REVISED:  
DRAWN BY: CYIENT INC

COMPANY: KINETIC  
SYSTEM: MONTOUR\_LA  
PROJECT NUMBER: 71332809  
DESCRIPTION: SEPH11577  
COA1\_SERVING\_AREA  
SHEET: A-3(1)  
CYIENT INC



**IOWA DOT**  
**STANDARD ROAD PLAN**  
 TC-202  
 SHEET 1 OF 1  
 REVISIONS: ADOPT 14-06-12 I.A.C.  
 APPROVED BY: GREGORY W. HARRIS

WORK WITHIN 15 FT OF TRAVELED WAY

Possible Contract Item:  
 Traffic Control

When a pavement edge drop-off exists, install a SHOULDER DROP-OFF sign.  
 No pavement edge drop-offs greater than pavement depth will be allowed during non-working hours.  
 Shoulder edge drop-offs shall be mitigated according to Article 1107.06.I.C2 of the Standard Specifications.  
 For work lasting less than one hour, refer to TC-1.

① When the length of a pavement edge drop-off is 1000 feet or less, the temporary fill requirement of Article 1107.08 of the Standard Specifications does not apply. Reduce channelizer spacing to 40 feet.  
 ② For work areas less than 200 feet long, use channelizers spaced at 20 foot centers or use a vehicle with an amber revolving light or amber strobe light.

SPEED LIMIT (mph)	A	B	C	T
35 or less	500'	250'	40'	100'
40 - 45	700'	350'	60'	200'
50 or greater	1000'	500'	100'	200'

\* Speed Limit refers to regulatory speed limit before road work.

**LEGEND**

- Traffic Sign
- 47 Channelizer
- Work Area
- Direction of Traffic

DATE CREATED: 03/16/2028  
 DATE REVISED:  
 DRAWN BY: CYIENT INC

GRAPHIC SCALE  
 0 50 100  
 FEET  
 1 inch = 50 ft.

COMPANY: KINETIC  
 SYSTEM: MONTOUR\_LA  
 PROJECT NUMBER: 713552809  
 DESCRIPTION: SERPH1577  
 COA1\_SERVING\_AREA  
 SHEET: TCP-1  
 CYIENT INC

## Chris Wilson

---

**From:** Vortherms, Jeremy <Jeremy.Vortherms@iowadot.us>  
**Sent:** Saturday, March 21, 2026 11:29 AM  
**To:** Chris Wilson  
**Cc:** Tamrakar, Devendra  
**Subject:** [TLS] Expressway Signing Project // Tama Co Partnering Opportunity  
**Attachments:** Sinusoidal Mumble Panel\_SD near Keystone.pdf; MumbleDetail.pdf; Tama Co.kmz

Chris,

\*\*\* I'm reaching out to in hopes you can put me in touch with the county engineer \*\*\*

The Iowa DOT is working on an expressway pavement marking and signing project. The project will install higher quality pavement markings and some additional signing to enhance safety along the expressway. The project is slated for a June letting and will be on various expressways in east-central Iowa (Dubuque to Muscatine, Clinton to Marshalltown)

Rumble panels in advance of the stop have proven effective in reducing crashes. We welcome the opportunity to partner with you to add this feature to the project. Similar to paved sideroad approaches, the DOT will handle the project administration and the county would cover the expense of the rumble panels. Reimbursement would be in FY 27 to the earliest, but likely in FY 28.

There are 2 types of rumble panels available:

Type:	Mumble Panel	Rumble Panel
Detail:	MumbleDetail attached (not yet a DOT Standard Road Plan) Also see photo attached.	Pv-10
Best practice:	Used closer to homes/residential areas at the intersection due to lower outside of vehicle noise	Normal transverse rumble panel
Proposed cost of panel cut into existing PCC pavement:	~\$2,200 each (from a bid we had in February)	~\$700 each

Would you consider adding the rumbles to any of the eligible intersections east of Marshalltown?

From our review, it looks like the red pins are eligible.

US 30 & T-47 [E Jct]



1st SET OF RUMBLE STRIPS  
STOP AHEAD SIGN

Measure distance  
Click on the map to add to your path  
Total distance: 200.46 ft (61.10 m)

## TRAFFIC AND SAFETY MANUAL

### Chapter 18 – Miscellaneous Topics 18A – Rumble Strips

# Rumble Strips at Stop Signs

Originally Issued: 04-04-2006, Last Revised: 02-11-2014

## General

Rumble strips are generally used in rural areas in advance of locations where primary highway traffic must stop at a Stop sign. A rumble strip panel consists of a series of grooves in the surface to provide a tactile and audible awareness for the driver that may not be fully aware of the other devices in advance of the Stop sign. They are not generally used where the speed limit is less than 55 miles per hour or where the sound would be obtrusive to nearby residences or businesses. When it is decided not to use rumble strips where the speed limit is 55 miles per hour or more, alternative measures may be taken, such as installation of beacons, placement of flags on existing signs, installation of signs on both sides of the road, or use of larger signs. Rumble strips may be installed at locations where the speed limit is less than 55 miles per hour if indicated by a traffic engineering study for that location. The State Traffic Engineer will provide assistance at the request of the District Office.

## Location

Typical rumble strip panel locations are shown on Figure 9 of [Section 2A-10](#) of the Traffic and Safety Manual and Figure 1 of [Section 6A-7](#) of the Design Manual

Former standards called for three panels, with the first one being 200 feet in advance of the Stop Ahead sign, the third one 300 feet in advance of the Stop Line and the center one midway between those two. Current design requires only two panels with the first rumble strip panel located 200 feet in advance of the Stop Ahead sign and the second rumble strip panel located 75% of the distance from the Stop sign to the Stop Ahead sign, in advance of the stop bar. Where bridges, railroad crossings or other such features make it impossible to place the rumble strips in their standard locations, they may be moved in consideration of site conditions.

## Design

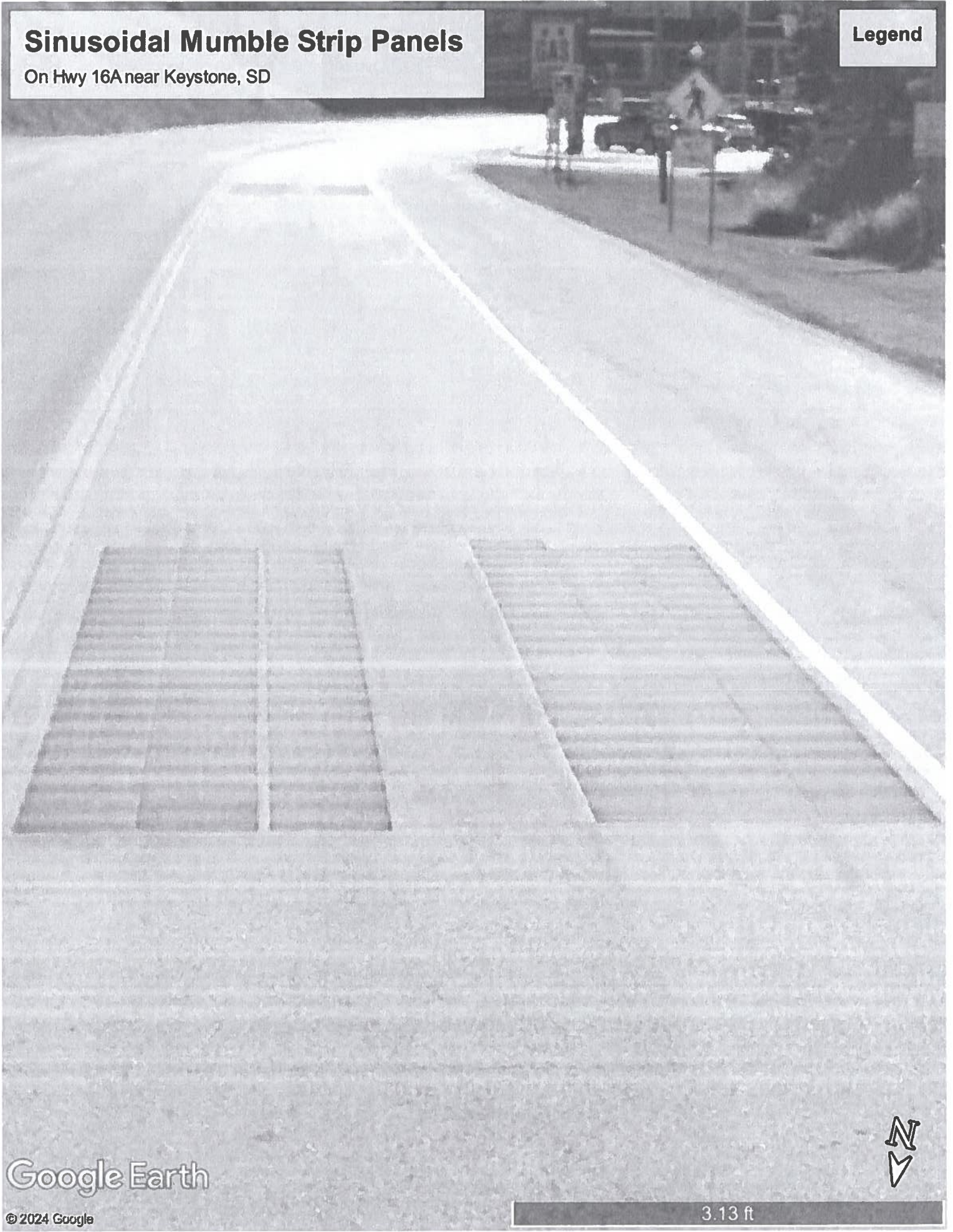
Each rumble strip panel is 24 feet in length, consisting of 25 grooves placed at one-foot intervals perpendicular to centerline. An 18-inch width of pavement at the outside edge of the lane and a 12-inch width of pavement on the center line of the lane are left uncut. When cut in portland cement concrete or hot mix asphalt concrete, the grooves are 3/8-inch deep and 4 inches wide. When cast in plastic portland cement concrete, the grooves are 3/4-inch deep, four inches wide at the top and one inch wide at the bottom. These design details are shown on [Standard Road Plan PV-10](#). It is critical that the design details be adhered to so that the proper tactile and audible awareness is achieved without being too rough or noisy.

**Document Revision History: 04-04-2006, 02-11-2014**

# Sinusoidal Mumble Strip Panels

On Hwy 16A near Keystone, SD

Legend

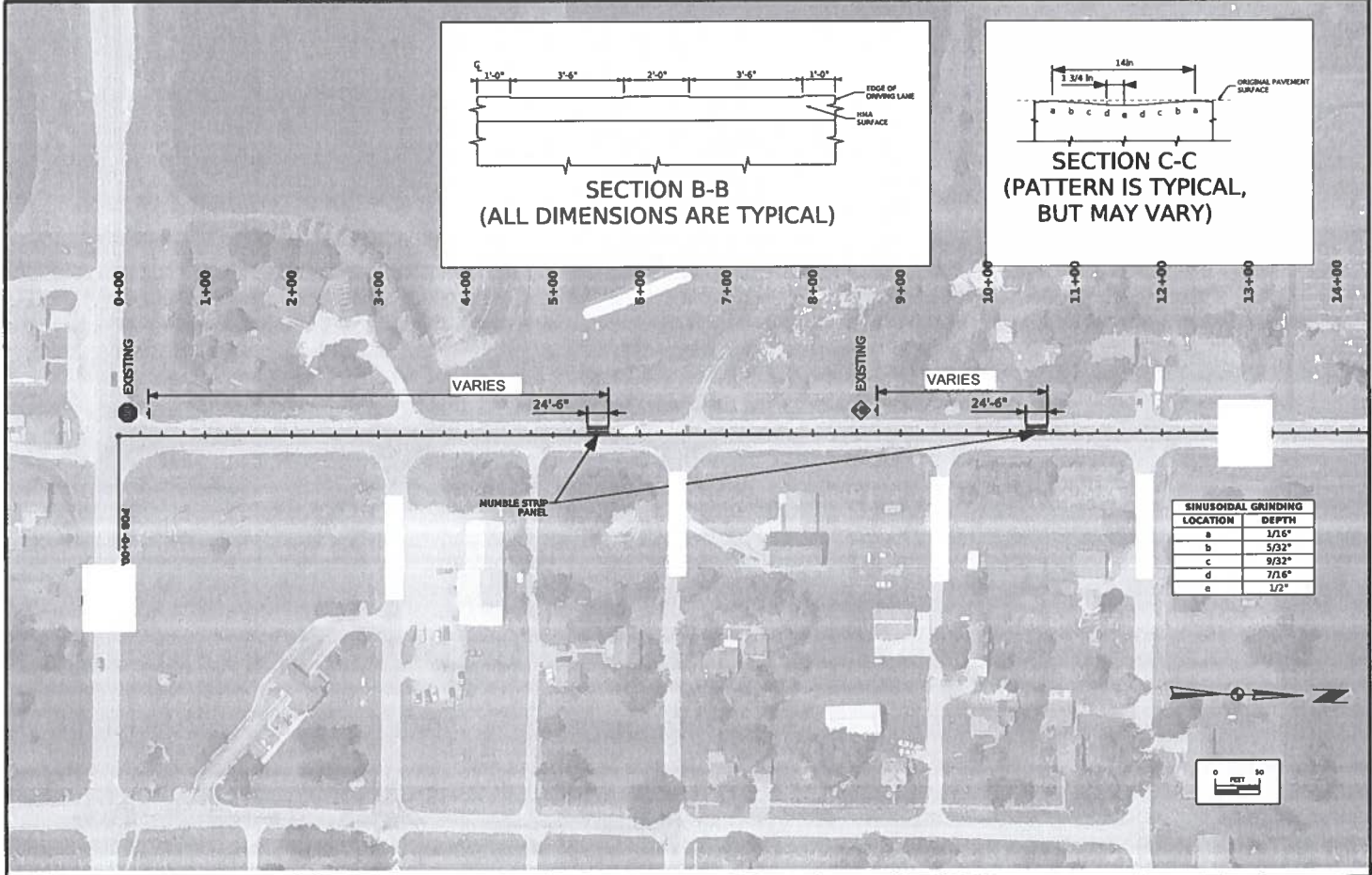
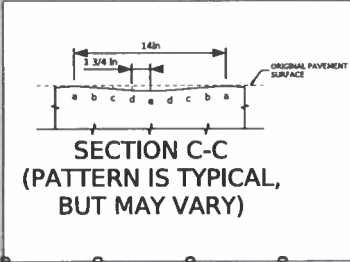
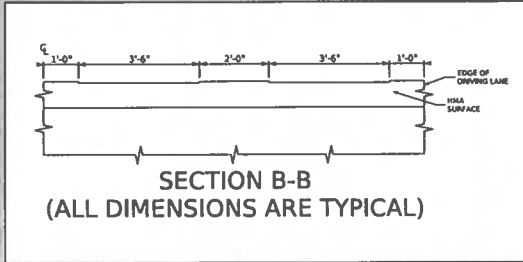


Google Earth

© 2024 Google

3.13 ft





SINOISODAL GRINDING	
LOCATION	DEPTH
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

B:\04\136-2(046)-2C-53\HSIPX\136-2(047)-3L-53\046-2C-53-3L-53-01.dwg

**RESOLUTION 3-30-2026A**

WHEREAS, the Board of Supervisors approve wage increases for all elected officials.  
THEREFORE, BE IT RESOLVED that the Tama County Board of Supervisors approves the following salary adjustments for the following elected officials for the fiscal year beginning July 1, 2027:

<u>Elected Official</u>	<u>Approved Salary</u>	<u>Approved Increase</u>
Attorney	\$136,596	14.794%
Auditor	\$85,010	8.26%
Recorder	\$80,660	3.0%
Sheriff	\$125,306	4.249%
Supervisors	\$40,224	3.873%
Treasurer	\$80,771	3.0%

**RESOLUTION 3-30-2026B**

**RESOLUTION APPOINTING THE TAMA COUNTY AUDITOR AS BUDGET DIRECTOR**

WHEREAS, the Tama County Board of Supervisors does see the need for appointing someone to serve as the Tama County Budget Director.

WHEREAS, the Tama County Board of Supervisors does wish the Budget Director to have a background in accounting, bookkeeping, and/or a working knowledge of governmental accounting standards.

WHEREAS, the Tama County Board of Supervisors does establish the following duties as those of the budget director:

1. Assure compliance with state laws regarding governmental budgeting and reporting.
2. Prepare the Tama County budget, including attending budget meetings and work sessions with Department Heads and Supervisors as necessary and requested by the Board of Supervisors.
3. Process all proposed department budgets into the County budget for presentation to the Board of Supervisors.
4. Compile the Board's approved budget into the appropriate state forms and prepare publications and public hearings related to the annual budget process.
5. Distribute approved budgets to all departments.
6. File and adopt approved budget on the State of Iowa website.
7. Project anticipated income, expenditures, and fund balances for budgeting purposes.
8. Assist Department Heads with managing budgets and ensuring that budgeted amounts are not exceeded in Dept, Fund, and Service Area.
9. Coordinate and prepare budget amendments, prepare publications and public hearings related to the amendment process.
10. File and adopt approved amendments on the State of Iowa website.
11. Assure accurate recording of budget and financial transactions in the computer system.
12. Coordinate the preparation of monthly cash basis financial reports to the Supervisors and Department Heads.
13. Prepare audit lead schedules and other reports and reconciliations as required for annual audit and state reporting.
14. Coordinate the preparation of numerous expenditure and cost reports as required by the legislature.
15. Fixed Asset accounting and reporting.
16. Prepare and file the annual cash report.
17. File the annual accrual report.

**THEREFORE, BE IT RESOLVED** that the Tama County Board of Supervisors designate the Tama County Auditor to serve as Budget Director and be responsible for the duties previously listed. A stipend in the amount of \$3,500 shall be allocated to the Auditor out of the Board of Supervisors' budget.

**NOTICE OF PUBLIC HEARING – PROPOSED BUDGET**  
**Fiscal Year July 1, 2026 - June 30, 2027**  
**County Name: TAMA COUNTY County Number: 86**

The County Board of Supervisors will conduct a public hearing on the proposed Fiscal Year County budget as follows:

Meeting Date: (entered upon publish) Meeting Time: (entered upon publish) Meeting Location: (entered upon publish)

At the public hearing any resident or taxpayer may present objections to, or arguments in favor of, any part of the proposed budget. This notice represents a summary of the supporting detail of revenues and expenditures on file with the County Auditor. A copy of the supporting detail will be furnished upon request. County budgets are subject to protest. If protest petition requirements are met, the State Appeal Board will hold a local hearing. For more information, consult [dom.iowa.gov/local-budget-appeals](http://dom.iowa.gov/local-budget-appeals)

Average annual percentage changes between "Actual" and "Budget" amounts for "Taxes Levied on Property", "Other County Taxes/ TIF Tax Revenues", and for each of the ten "Expenditure Classes" must be published. Expenditure classes proposing "Budget" amounts, but having no "Actual" amounts, are designated "NEW".

County Website (if available)  
[www.tamacounty.iowa.gov](http://www.tamacounty.iowa.gov)

County Telephone Number  
 (641) 484-2740

		Budget 2026/2027	Re-Est 2025/2026	Actual 2024/2025	AVG Annual % CHG
<b>REVENUES &amp; OTHER FINANCING SOURCES</b>					
Taxes Levied on Property	1	13,507,904	13,093,274	11,809,659	6.95
Less: Uncollected Delinquent Taxes - Levy Year	2	0	0	0	
Less: Credits to Taxpayers	3	0	0	0	
Net Current Property Taxes	4	13,507,904	13,093,274	11,809,659	
Delinquent Property Tax Revenue	5	2,180	1,080	3,648	
Penalties, Interest & Costs on Taxes	6	28,000	21,180	80,447	
Other County Taxes/TIF Tax Revenues	7	1,481,834	1,489,564	1,482,466	-0.02
Intergovernmental	8	7,670,883	8,950,937	8,717,402	
Licenses & Permits	9	43,555	39,650	60,369	
Charges for Service	10	778,397	796,656	759,152	
Use of Money & Property	11	501,100	499,700	435,603	
Miscellaneous	12	386,226	378,123	1,505,798	
<b>Subtotal Revenues</b>	13	24,400,079	25,270,164	24,854,544	
Other Financing Sources:					
General Long-Term Debt Proceeds	14	0	0	0	
Operating Transfers In	15	2,749,545	2,659,202	3,310,004	
Proceeds of Fixed Asset Sales	16	1,500	1,500	39,388	
<b>Total Revenues &amp; Other Sources</b>	17	27,151,124	27,930,866	28,203,936	
<b>EXPENDITURES &amp; OTHER FINANCING USES</b>					
Operating:					
Public Safety and Legal Services	18	7,037,891	6,454,112	4,726,421	22.03
Physical Health and Social Services	19	603,892	2,109,875	2,457,892	-50.43
County Environment and Education	21	1,221,363	1,109,197	1,115,278	4.65
Roads & Transportation	22	9,830,293	9,273,956	9,529,400	1.57
Government Services to Residents	23	1,001,031	1,022,296	926,096	3.97
Administration	24	2,993,522	2,724,622	3,422,786	-6.48
Nonprogram Current	25	11,000	10,500	13,270	-8.95
Debt Service	26	922,985	922,785	924,285	-0.07
Capital Projects	27	1,758,000	2,183,807	1,166,619	22.76
<b>Subtotal Expenditures</b>	28	25,379,977	25,811,150	24,282,047	
Other Financing Uses:					
Operating Transfers Out	29	2,749,545	2,659,202	3,310,004	
Refunded Debt/Payments to Escrow	30	0	0	0	
<b>Total Expenditures &amp; Other Uses</b>	31	28,129,522	28,470,352	27,592,051	
<b>Excess of Revenues &amp; Other Sources over (under) Expenditures &amp; Other Uses</b>	32	-978,398	-539,486	611,885	
Beginning Fund Balance - July 1,	33	7,389,764	7,929,250	7,317,365	
Increase (Decrease) in Reserves (GAAP Budgeting)	34	0	0	0	
Fund Balance - Nonspendable	35	0	0	0	
Fund Balance - Restricted	36	0	0	0	
Fund Balance - Committed	37	0	0	0	
Fund Balance - Assigned	38	0	0	0	
Fund Balance - Unassigned	39	6,411,366	7,389,764	7,929,250	
<b>Total Ending Fund Balance - June 30,</b>	40	6,411,366	7,389,764	7,929,250	
Proposed property taxation by type:	Proposed tax rates per \$1,000 taxable valuation:				
Countywide Levies*:	10,171,460	Urban Areas:	8.23061		
Rural Only Levies*:	3,336,444	Rural Areas:	11.93970		
Special District Levies*:	0	Any special district tax rates not included.			
TIF Tax Revenues:	466,190				
Utility Replacement Excise Tax:					

Explanation of any significant items in the budget or additional virtual meeting information: