

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
* A.1	Title Sheet/Location Map
B Sheets	Typical Cross Sections and Details
B.1 - 3	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 14 Plan & Profile
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
W Sheets	Mainline Cross Sections
W.1 - 4	Mainline Cross Sections
	* Color Plan Sheets

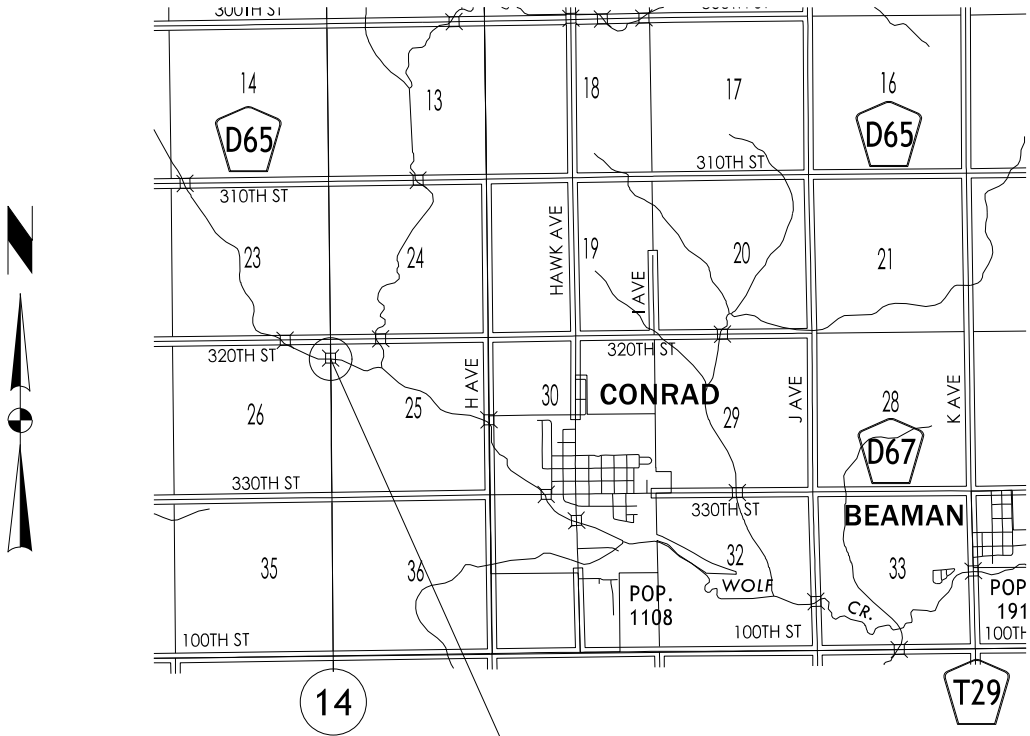


PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
GRUNDY COUNTY
Bridge-Unspecified
Wolf Creek 0.8 mi N fo Co Rd D67

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



Project Location
MP 115.44
Maintenance No. 3815.4S014
FHWA No. 25830

REVISIONS

PROJECT IDENTIFICATION NUMBER	TOTAL
	11
20-38-014-010	
PROJECT NUMBER	
BRFN-014-6(44)--39-38	
R.O.W. PROJECT NUMBER	

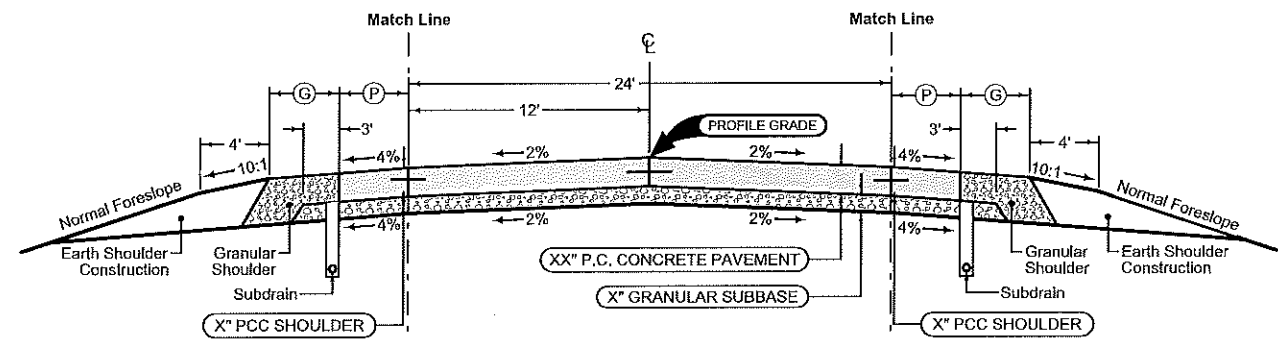
B1 PLAN – Date: 8–26–2022
D5 PLAN – Date: 10–14–2022
D4 PLAN – Date: 7–23–2024

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Allison Smyth	Primary Signature Block

PRELIMINARY PLANS

Subject to change by final design.

D3 PLAN – Date: 5–27–2022



Mainline Jointing:
 Transverse joints: CD at 17' spacing
 Longitudinal joint: L-2

2P_04-21-20	
STATION TO STATION	

Full Depth PCC Combination Shoulder

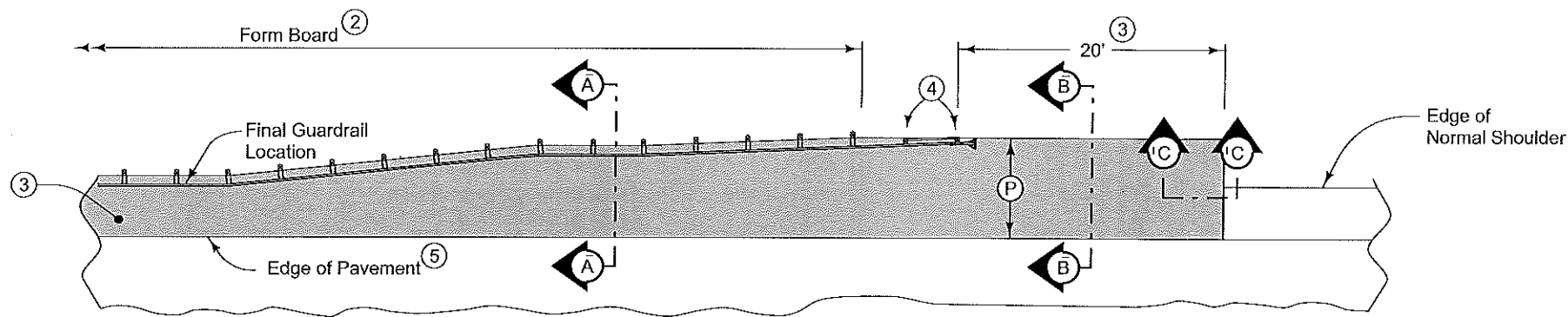
Shoulder Jointing:
 Longitudinal joint: L-2 or KT-2
 Transverse joints: C at 17' spacing

2_C_FullPCC_04-21-20			
STATION TO STATION		(P)	(G)
		Feet	Feet

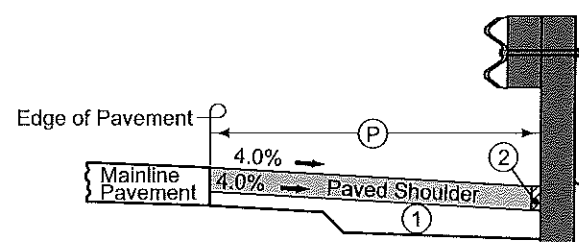
Full Depth PCC Combination Shoulder

Shoulder Jointing:
 Longitudinal joint: L-2 or KT-2
 Transverse joints: C at 17' spacing

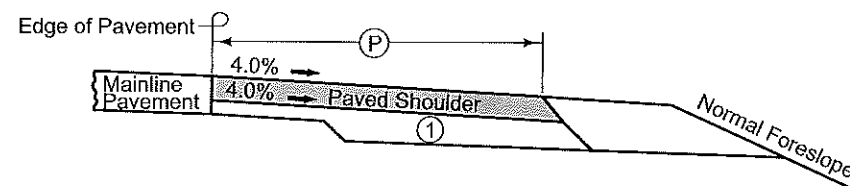
2_C_FullPCC_04-21-20			
STATION TO STATION		(P)	(G)
		Feet	Feet



PLAN VIEW

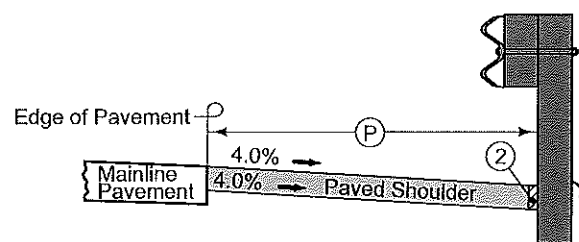


Section A-A

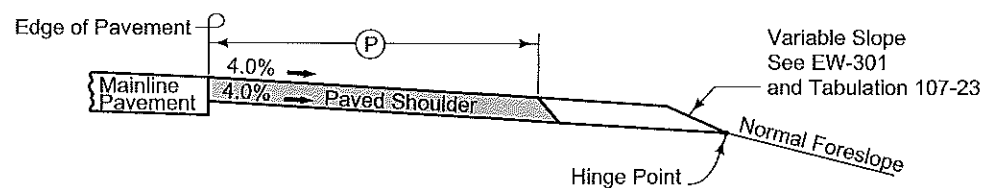


Section B-B

NEW CONSTRUCTION



Section A-A



Section B-B

EXISTING SHOULDER

DESIGNER
INFO

7156
04-18-17

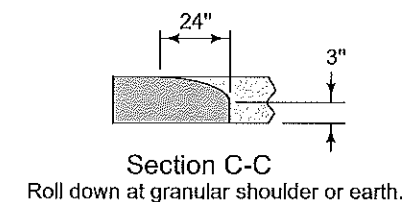
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at $P/2$ from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

- ① For subgrade treatment, refer to other details in the plan.
- ② PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown. Refer to note 4 for final 2 posts.
- ③ Continue paved shoulder to existing paved shoulder or 20 feet beyond the center of the first post.
- ④ Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ⑤ 'KT-1 joint for PCC shoulder.
'B' joint for HMA shoulder.



PAVED SHOULDER AT GUARDRAIL

	Interstate Highway Symbol
	U.S. Highway Symbol
	Iowa Highway Symbol
	County Road Highway Symbol
	Evergreen Tree
	Deciduous Tree
	Fruit Tree
	Shrub (Bushes)
	Timber
	Hedge
	Stump
	Swamp
	Rock Outcrop
	Broken Concrete
	Revetment (Rip Rap)
	Cemetery
	Grave
	Cave
	Sink Hole
	Board Fence
	Chain Link or Security Fence
	Wire Fence
	Terrace
	Earth Dam or Dike (Existing)
	Tile Outlet
	Edge of Water
	Existing Drainage
	Right of Way Rail or Lot Corner
	Concrete Monument
	Well
	Windmill
	Beehive Intake
	Existing Intake
	Existing Utility Access (Manhole)
	Fire Hydrant
	Water Hydrant (Rural)

- | | |
|--|------------------------------|
|  | Septic Tank |
|  | Cistern |
|  | L.P. Gas Tank (No Footing) |
|  | Underground Storage Tank |
|  | Latrine |
|  | Satellite TV Dish |
|  | Water Hook Up |
|  | Radio Tower |
|  | Tower Anchor |
|  | Guardrail (Beam or Cable) |
|  | Guard Post (one or two) |
|  | Guard Post (over two) |
|  | Filler Pipe |
|  | Gas Valve |
|  | Water Valve |
|  | Speed Limit Sign |
|  | Mile Marker Post |
|  | Sign |
|  | Traffic Signal Control Box |
|  | Rail Road Signal Control Box |
|  | Telephone Switch Box |
|  | Electric Box |

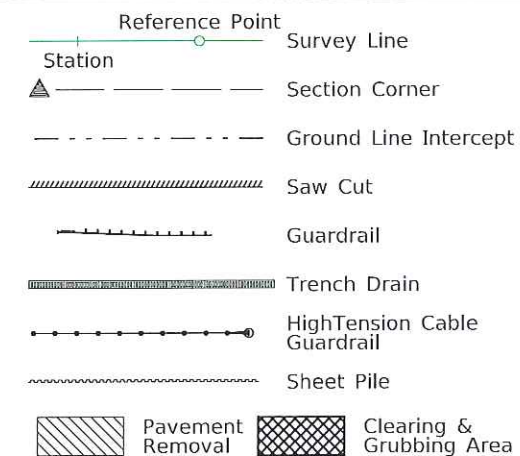
— FQ Heart of Iowa (*Fiber Distribution*)

— W Alliant Energy (*Electric Distribution*)

— W Iowa Regional Utility Assoc. (*Rural Water*)

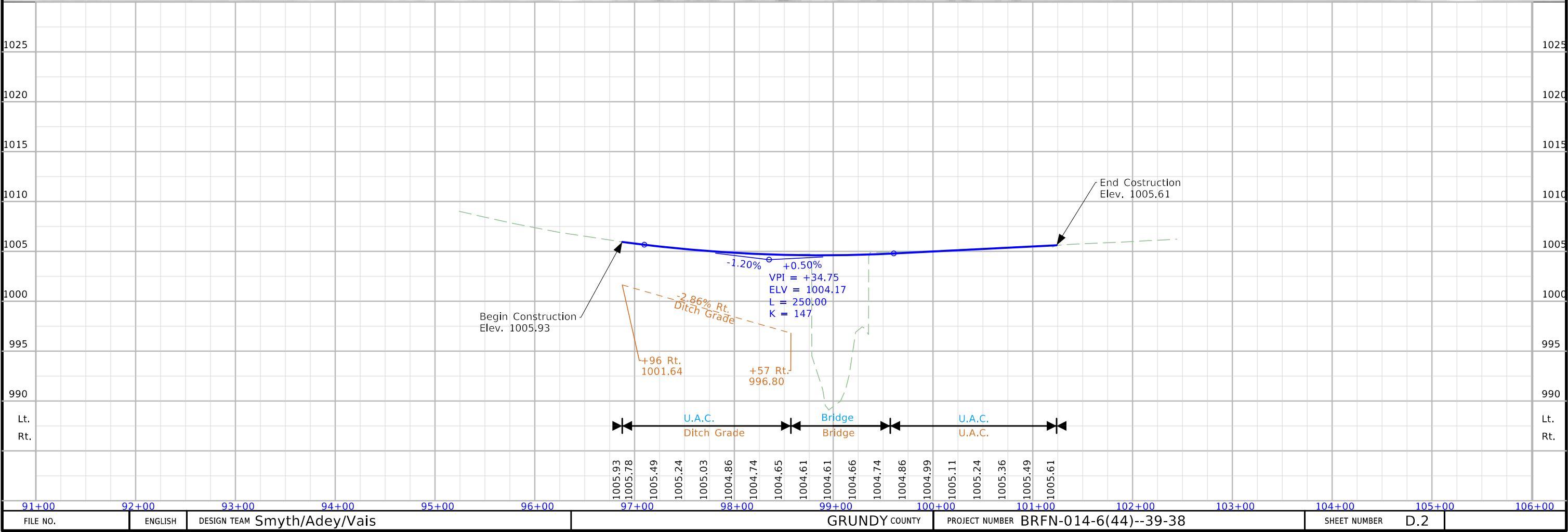
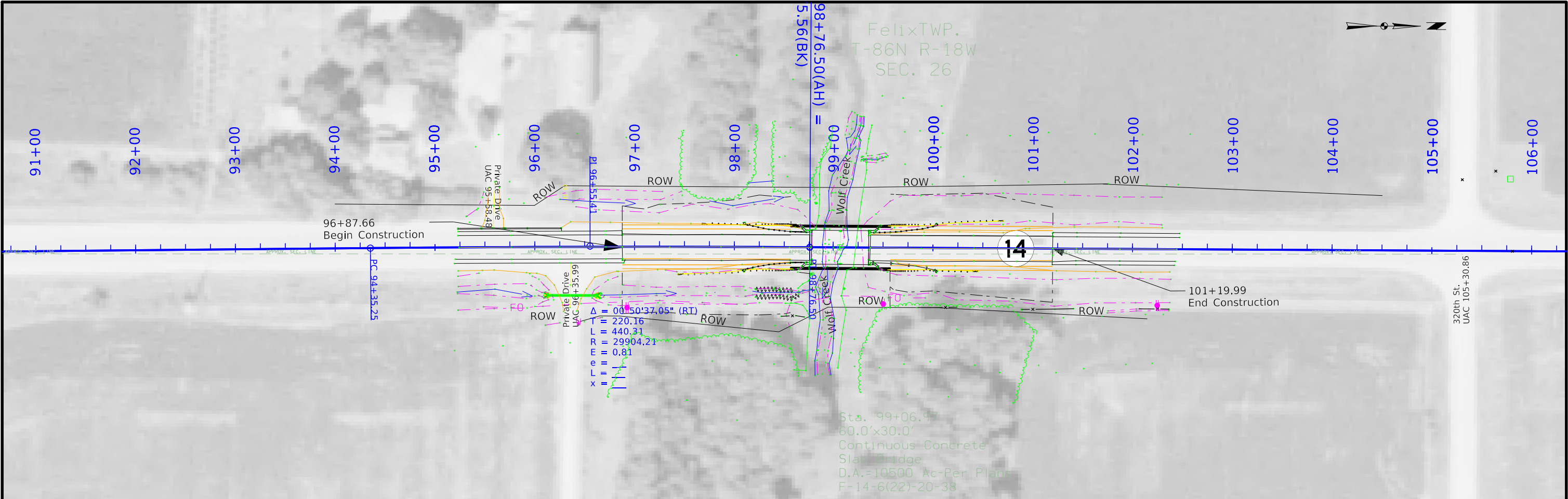
LINEWORK		Design Color No.
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		Design Color No.
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(70)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading

LINEWORK	Design Color No.
Green	(2) Existing Ground Line Profile
Blue	(1) Proposed Profile and Annotation
Magenta	(5) Existing Utilities
Blue, Light	(230) Proposed Ditch Grades, Left
Black	(0) Proposed Ditch Grades, Median
Rust	(14) Proposed Ditch Grades, Right



- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line

(COVERS SHEET SERIES D, E, F, & K)



108-23A
08-01-08

TRAFFIC CONTROL PLAN

Traffic will be maintained via staged construction of the bridge.

511 TRAVEL RESTRICTIONS												108-25 10-21-14
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
IA 14	Both	Grundy	Wolf Creek, 0.8 miles north of County Road D67.	Wolf Creek	Temporary Signal	M. No. 3815.4S014	Vertical					
	Both	Grundy	Wolf Creek, 0.8 miles north of County Road D67.	Wolf Creek	Barrier	M. No. 3815.4S014	Horizontal					

108-26A
08-01-08

STAGING NOTES

Stage 1:Traffic will be reduced to one lane to construct shoulder strengthening.

Stage 2: Work will be done in the NB lanes.

Stage 3: Work will be done in the SB lanes

