LETTING DATE
09/03/2019

WINNEBAGO Co. RCB CULVERT REPLACEMENT - SINGLE BOX
BRFN-009-5(109)--38-95

IOWA DOT

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

WINNEBAGO COUNTY

RCB CULVERT REPLACEMENT - SINGLE BOX

Ditch 0.1 mi E of Co Rd R74

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

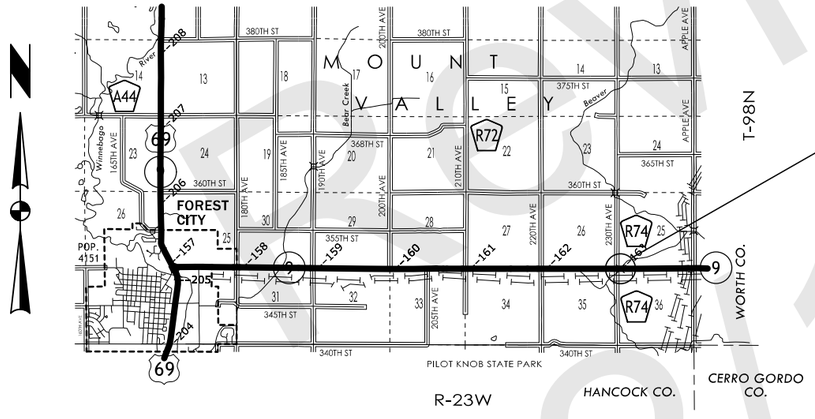
IOWA ONE CALL
1-800-292-8989 | 811
Know what's below. Call before you dig.
www.iowaonecall.com

REVISIONS

TOTAL
PROJECT IDENTIFICATION NUMBER
15-95-009-010
PROJECT NUMBER
BRFN-009-5(109)--38-95
R.O.W. PROJECT NUMBER
STPN-009-5(110)--2J-95

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.1	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 4	Typical Cross Sections and Details
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 9 Plan
* D.3	IA 9 Profile
G Sheets	**Survey Sheets**
G.1 - 3	Reference Ties and Bench Marks
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
V Sheets	**Bridge and Culvert Situation Plans**
V.1	Bridge and Culvert Situation Plans
W Sheets	**Mainline Cross Sections**
W.1 - 5	Mainline Cross Sections
	* Color Plan Sheets



PROJECT LOCATION
Ref. Loc. - 162.9
Maint. No - 9562.9S009
FHWA No - 52500

DESIGN DATA RURAL

2020 AADT	3000	V.P.D.
2040 AADT	3700	V.P.D.
20-- DHV	--	V.P.H.
TRUCKS	15	%
Total Design ESALs	--	

LOCATION MAP SCALE
0 1 2 3
Miles

EVENT DATES:
D4 PLAN – Date: 07–23–2019

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN – Date: 04–16–2018

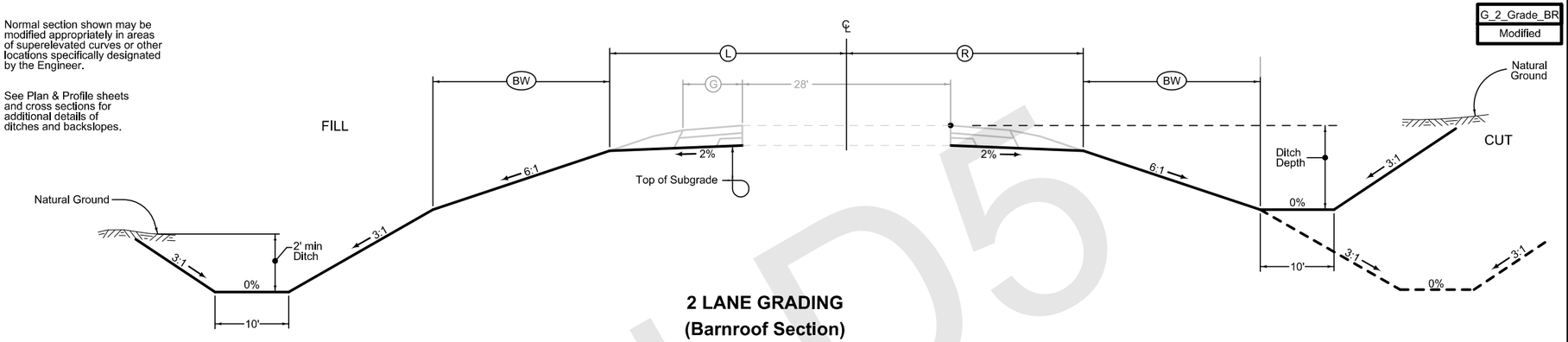
FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER A.1

9:11:17 AM 8/23/2018 pcarls2 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9500901015\Design\CADD\Sheet_Files\95009109_A01.dgn

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(BW) Feet
IA 9	1598+32.54	1602+07.45	32	32	10

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.



G_2_Grade_BR
Modified

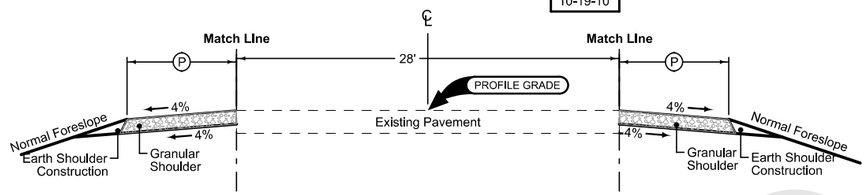
2 LANE GRADING
(Barnroof Section)

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER B.1

Granular Shoulder

2_G_SR_ 10-19-10		
STATION TO STATION		(G) Feet
1598+45.00	1602+07.45	8

2E_
10-19-10

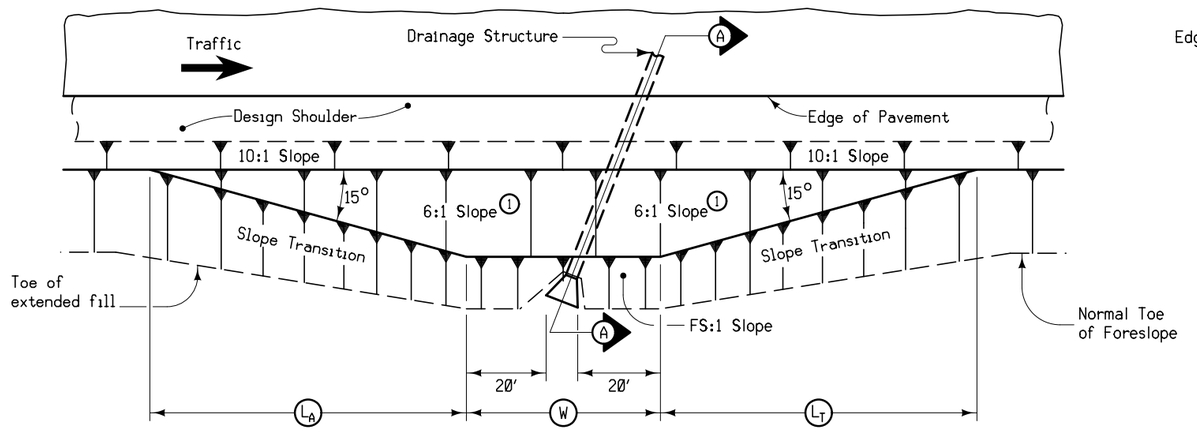


Granular Shoulder

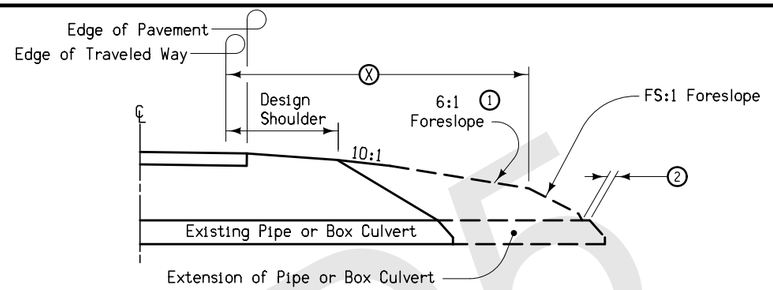
2_G_SR_ 10-19-10		
STATION TO STATION		(G) Feet
1598+32.54	1601+30.77	8

See Tab 112-9 for shoulder quantities.

Iowa Highway 9



PLAN VIEW



SECTION A-A

STRUCTURE LOCATION		W	L_A	L_T	X	FS
STATION 3	SIDE	Feet	Feet	Feet	Feet	
1599+81.50	Lt.	58.09	127.95	148.49	53.53	3
1599+81.50	Rt.	58.09	80.70	80.70	35.63	3

4312
04-18-17

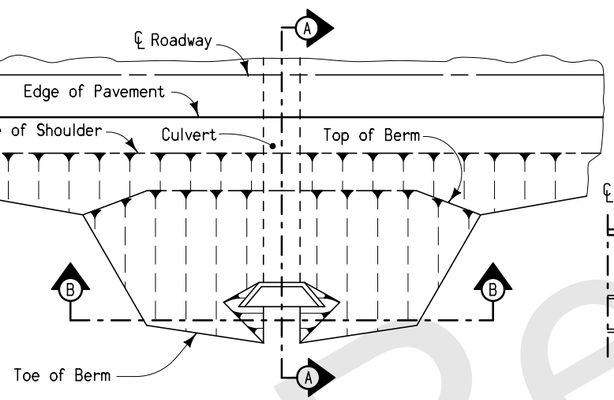
At locations where an extended or newly constructed drainage structure extends beyond the normal foreslope cover, flatten as indicated so as to cover the structre. Minimum earth cover is 6 inches.

1. Slope may be flatter than 6:1.
2. 6 inch minimum for pipe installations or to top of headwall on RCB.
3. At ℄ of road.

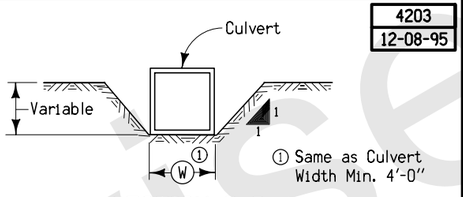
W = Pipe or RCB opening width plus 20 feet each side.

BARNROOF FORESLOPE AT SKEWED DRAINAGE STRUCTURE

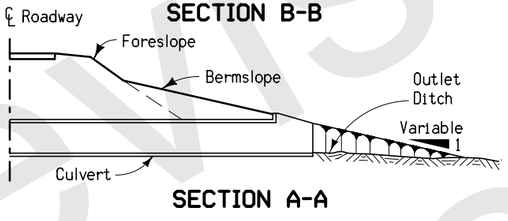
4203
12-08-95



TYPICAL PLAN



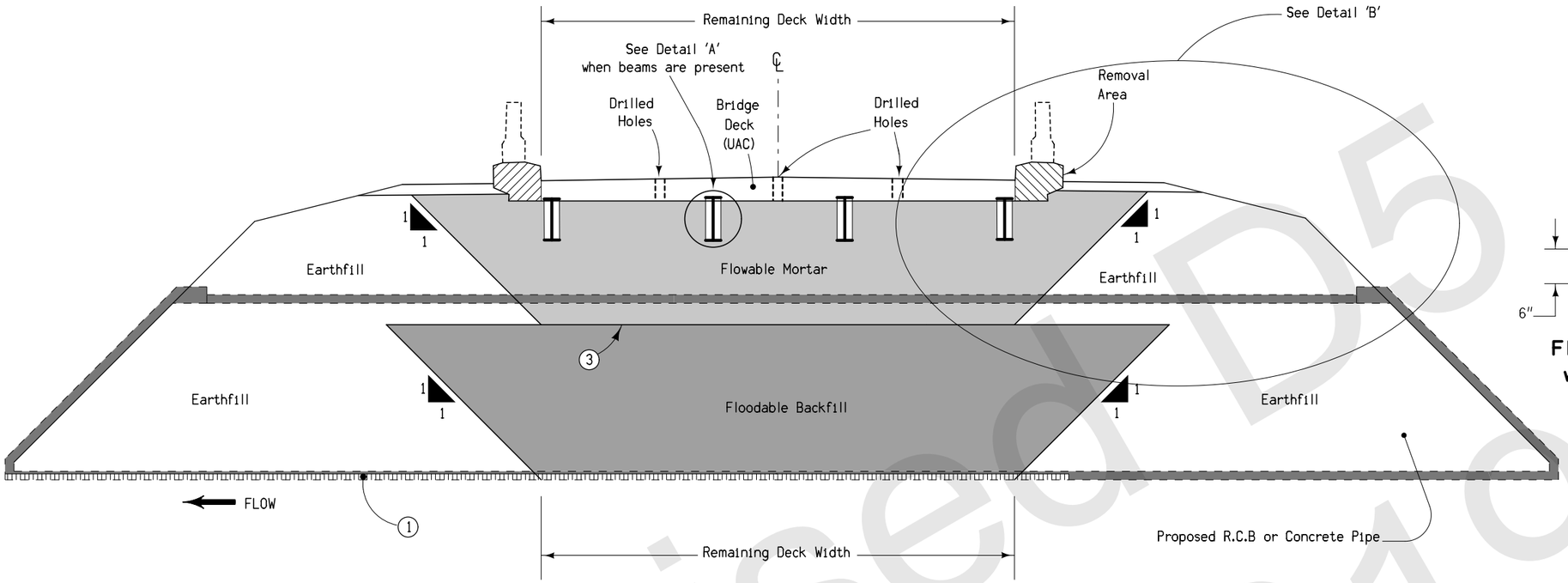
SECTION B-B

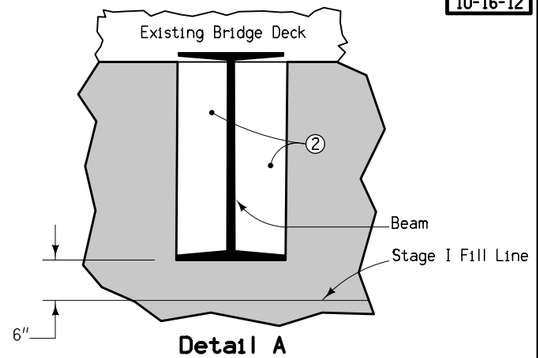


SECTION A-A

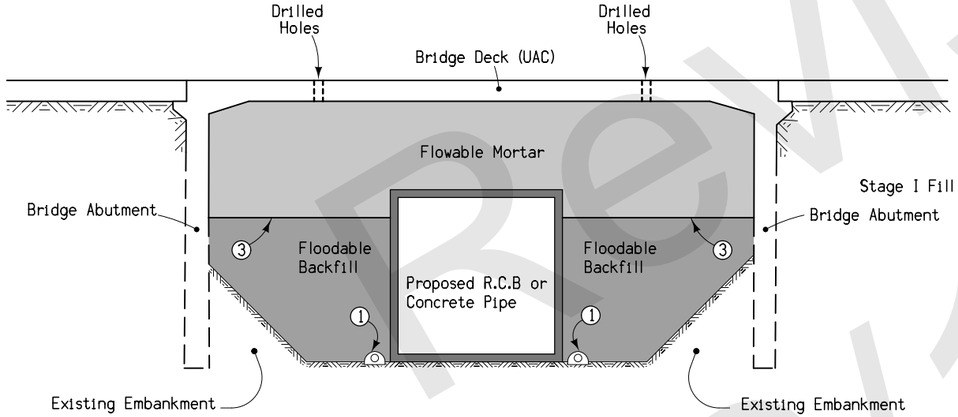
TYPICAL DETAILS FOR OUTLET DITCH THROUGH FORESLOPE BERM

4317
10-16-12

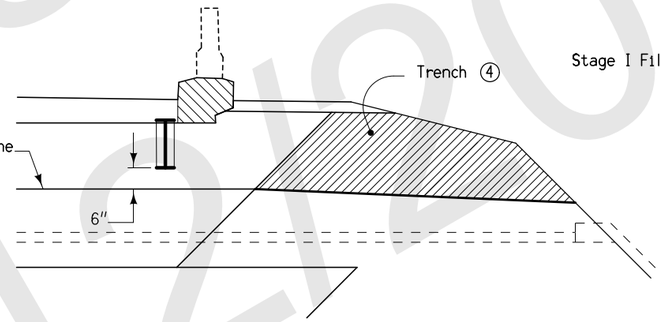




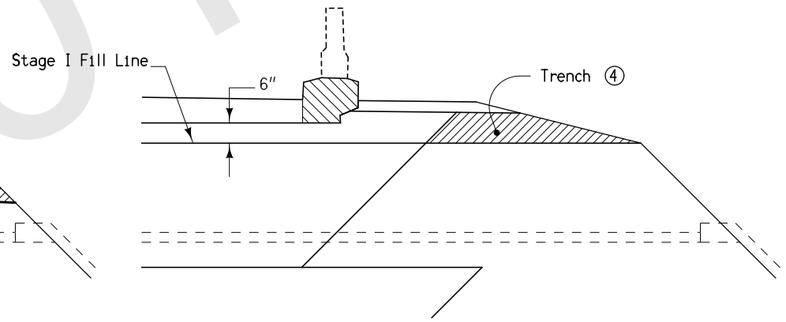
Detail A
Flange Filler Material Area when beams are present



Section along Centerline



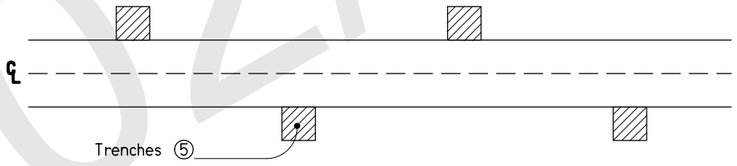
Detail B (Beam Bridge)



Detail B (Slab Bridge)

Denotes pay limits for flowable mortar

Denotes pay limits for flooded backfill



Trench Layout

1. 4" Subdrain at flowline elevation of culvert with 4" cover of porous backfill.
2. Place Flange Filler Material to fill pocket area between flanges to prevent flowable mortar from building up. Flange Filler Material is incidental to flowable mortar.
3. Fill void with the maximum amount of Floodable Backfill possible. Distance from Floodable Backfill to bridge beams (when present) or bridge deck shall not exceed 5'.
4. Cut trenches in the soil plug to provide drainage for the flowable mortar. Backfill the trenches with open graded crushed stone, gravel, or recycled PCC to allow water to drain. Backfill material is incidental to flowable mortar.
5. Place trenches at 20' spacing with a minimum of two trenches on each side of the roadway.

FILL FOR CULVERT USED IN BRIDGE REPLACEMENTS

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER B.4

SURVEY SYMBOLS

- GP Guard Post (Less Than 4 Posts)
- MM Mile Marker Post
- OUT Tile Outlet
- PI Tangent Point
- POT Tangent Point
- SIGN SI Sign
- TP TPD Telephone Pedestal
- TW Top of Water
- TA TA Tower Anchor
- DU Centerline Draw or Stream (Up)
- D Centerline Draw or Stream (Down)
- ENU Edge Unpaved Entrance & Parking
- ENT Centerline BL of Entrance
- EW Edge of Water
- FW Wire Fence
- GDL Guard Rail Steel
- ROC Rock Outcropping
- SNP Unpaved Shoulder

UTILITY LEGEND

- PPE Power Pole Heartland Power Cooperative
- Winnebago Cooperative Telecom Association - Quality D
- Northern Natural Gas - Quality D

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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.**	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER D.1

NAME R74 COUNTY

Mount Valley TWP.
T-98N R-23W
SEC. 25

SEC. 26

STA. 1598+45.00
BEGIN WB SHLDR CONSTRUCTION

STA. 1602+05.00
END WB SHLDR CONSTRUCTION

1597 | 1598 | 1599 | 1600 | 1601 | 1602 | 1603

PI Sta 1597+50.88

Remove Guardrail

Remove Guardrail

Remove Guardrail

Remove Guardrail

STA. 1598+95.00
BEGIN EB SHLDR CONSTRUCTION

STA. 1600+25.00
END EB SHLDR CONSTRUCTION

GP

STA. 1599+73.00
80' X 30' DECK GIRDER BRIDGE
U.A.C. - Sawcut to remove sidewalls
Sta. 1599+81.50
Build 14' X 14' X 128' RCB
Skew = 27° LT. Ahd.
F.L. = Lt. 1187.83
Rt. 1189.99
Design No. 120

Drainage Ditch #54

STA. 1598+20.5 R 189.44
120" IN X 159 FT CMP
UAC

SEC. 35

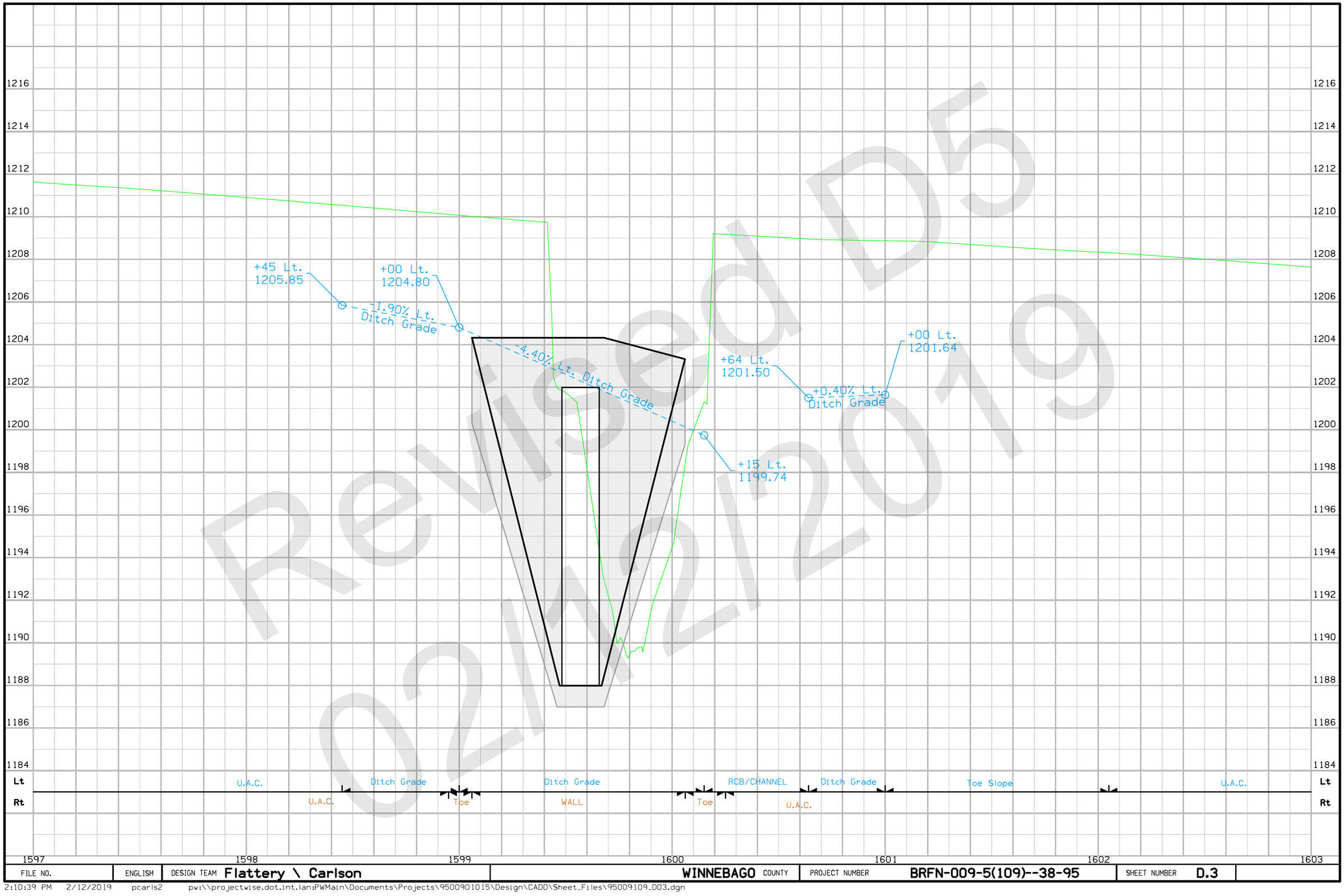
SEC. 36

NAME R74 COUNTY

0 FEET 20

9

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER D.2



FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER D.3

Survey Information

Winnebago County
BRFN-009-5(109)--39-95
RCB Culvert Replacement - Single Box
PIN 15-95-009-010
Sap-0888

General Information

Measurement units for this survey are US survey feet. This survey is for proposed reinforced concrete box culvert on Iowa Hwy 9 located 0.04 miles East of County Rd R74. This project is a Partial DTM with Photo control.

Vertical Control

Vertical datum for this survey is NAVD88 (Computed using Geoid12B). GRS80 Ellipsoidal Height was computed at project Pt. 301 by doing 6 hour static observations. The project control is relative to nearby Iowa RTN Base Stations.

This survey observed a NGS Control Monument with published NAVD88 heights to compare to local ground control:

NGS 2nd. order class 0 mark designated Forest City has a published Elev. Of 1280.57
Survey Elev. = 1280.75

This survey also observed 2 Winnebago County Control Monuments with published NAVD88 height to compare to local ground control:

Winnebago County Control mark G101 published height = 1242.07(Geoid99)
Survey Elev.= 1242.45(Geoid12b)

Winnebago County Control mark G5 published height = 1262.88(Geoid99)
Survey Elev.= 1263.60(Geoid12b)

Horizontal Control

The project coordinate system for this survey is Iowa RCS Zone 2 (U.S. Survey Feet). This survey control is relative to IaRTN reference stations. IaRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. Coordinates were determined by conducting a six hour static observation. Additional control points were placed throughout the project using a GNSS Base-Rover setup relative to point 301.

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans No. FN-9-5(11)—21-95. Survey stationing was equated to the plan PI at STA 1595+95.6 and run back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

Section Corner Sta. 1571+30.2 As-built Plans Project No. FN-9-5(11)—21-95
Survey POT Sta. 1571+30.48

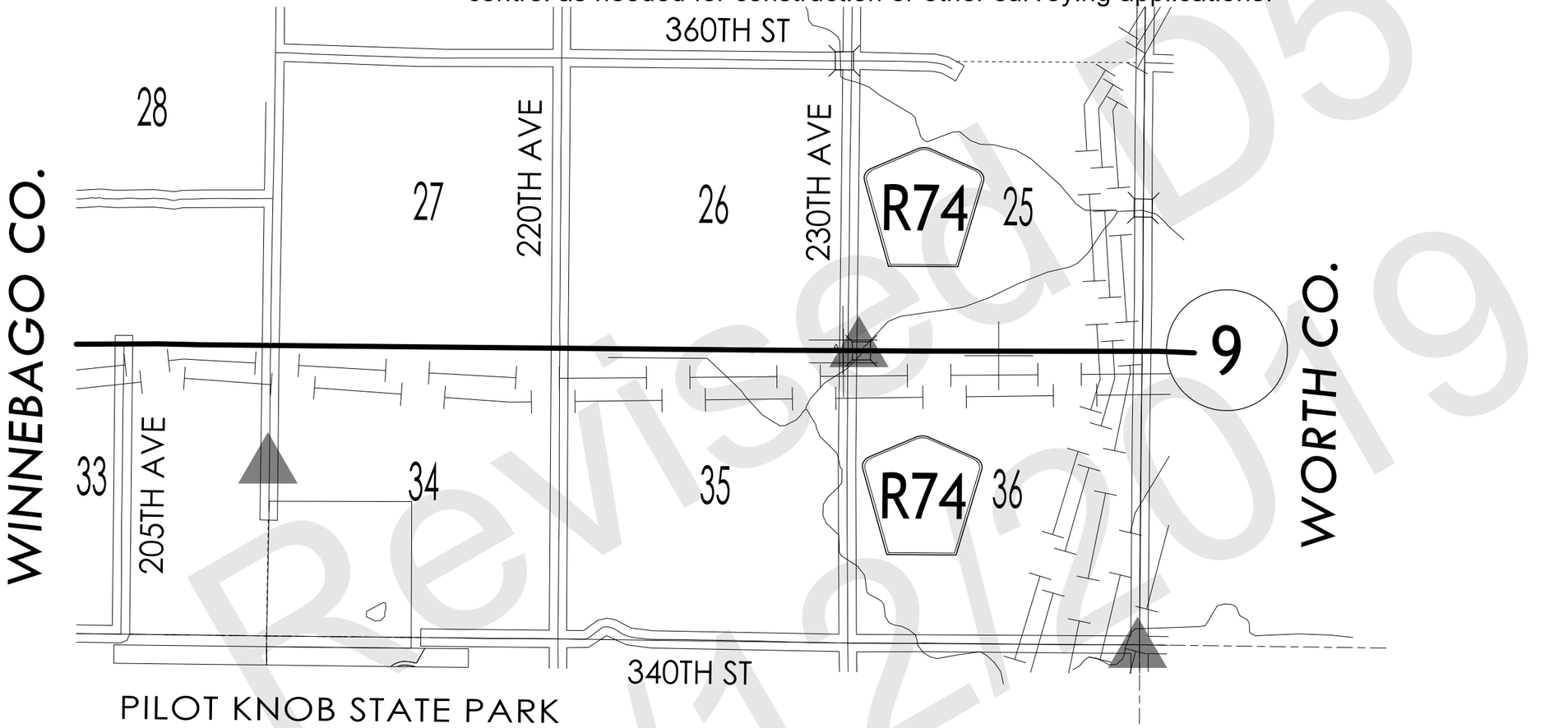
PI Sta 1595+95.6 Project No. FN-9-5(11)—21-95
Survey PI STA 1595+95.6

POT STA 1597+50.8 Project No. FN-9-5(11)—21-95
Survey PI STA 1597+50.88

Section Corner STA 1624+30.54 Project No. FN-9-5(11)—21-95
Survey POT STA 1624+28.24

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points
Primary control is for use with RTK base stations and for RTN validation.
Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2013.00
VERT. DATUM: NAVD88
Ia. Regional Coordinate System Zone 2
Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER G.2

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HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2013.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 2

Point Name	Northing	Easting	Elevation	Feature	Definition
G5	9833149.454	12300779.405	1263.60	BM	FOUND WINNEBAGO COUNTY GPS CNTRL MON G5 AN NGS STYLE ALUM MON WITH ACCESS COVER LOCATED IN THE SW QUAD OF 340TH ST AND APPLE AVE 35' WEST OF APPLE AVE AND 105' SOUTH OF 340TH ST
300	9838526.722	12298251.286	1196.33	REF	FOUND CONC REF MON SET DIMPLE IN ½ INCH RBR MONUMENT IS SE'LY TIE TO N 1/4 CORNER SEC 36 T98N R23W 63' EAST OF FENCE SOUTH AND 2' NORTH OF EAST-WEST ROW FENCE
301	9838812.445	12295414.489	1206.34	REF	FOUND CONC REF MON SET DIMPLE IN ½ INCH RBR MONUMENT IS NW'LY TIE TO NW CORNER SEC 36 T98N R23W 200' NORTH OF IOWA HWY 9 AND 95' WEST OF COUNTY ROUTE R74
G101	9836510.234	12284939.818	1242.45	BM	FOUND WINNEBAGO COUNTY GPS CNTRL MON G101 AN NGS STYLE ALUM MON WITH ACCESS COVER LOCATED 0.4 MILES SOUTH OF IOWA HIGHWAY 9 AND 30' WEST OF 210TH AVE AND 8' SOUTH OF FIELD ENTRANCE
FOREST CITY	9836273.903	12263296.410	1280.75	BM	FOUND USC&GS BM FOREST CITY 1934 NGS PID OO0700 TOP OF SOUTHEAST CORNER OF CONCRETE FOOTING FOR A BRICK PIER FOR A CANON AT THE SOUTHEAST CORNER OF THE COURTHOUSE SQUARE
110	9838397.046	12295421.380	1201.01	REF	FOUND CONC REF MON SET DIMPLE IN ½ INCH RBR MONUMENT IS SW'LY TIE TO NW CORNER SEC 36 T98N R23W 215' SOUTH OF HWY 215' SOUTH OF IOWA HWY 9 AND 85' WEST OF COUNTY ROUTE R74
111	9838690.238	12295290.848	1210.33	ROW	FOUND RAIL PLACED CUT X ON BALL RAIL IS 80' NORTH OF IOWA HWY 9 AND 220' WEST OF COUNTY ROUTE R74
500	9838630.034	12295703.898	1209.85	BM	FOUND CUT X NW COR NW WING FOOTING 80' X 30' DECK GIRDER BRIDGE ON IOWA HWY 9 OVER DRAINAGE DITCH #54

2D

DRAINAGE DISTRICT No.54

Drainage Ditch #54

2

KEVIN MONSON

TEMPORARY EASEMENT
TO CONSTRUCT & SHAPE
0.05 ACRES

RONALD J. &
DEBRA N. NOVAK

CLARENCE &
MARY ANN WELLIK

STATE
OF
IOWA

1595

1605

1600

1599+51
℄217'±P℄

1600+16
℄163'±PROP R/W

1600+47
℄163'

1601+15
℄80'±EX.R/W

1601+40
℄80'±EX.R/W

Sta 1597+50.88

APPROX. SEC. LINE

APPROX. SEC. LINE

G-HP

G-HP

G-HP

LOWELL & KATHLEEN FICK LIVING TRUST

NORMAN R. AND HAROLD A. NYHUS TRUST

0 100
FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Larson/Hughes
ROW #: STPN-009-5(110)-2J-95
Plan Date: 12-03-2018
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Flattery \ Carlson	WINNEBAGO	COUNTY	PROJECT NUMBER	BRFN-009-5(109)--38-95	SHEET NUMBER	H.1

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108-23A
08-01-08

TRAFFIC CONTROL PLAN

Traffic will be maintained at all times. However, it will be necessary to reduce traffic down to one lane via the use of flaggers during the removal of the bridge rail, guardrail and placement of the flowable mortar.

111-01
04-17-12

COORDINATED OPERATIONS

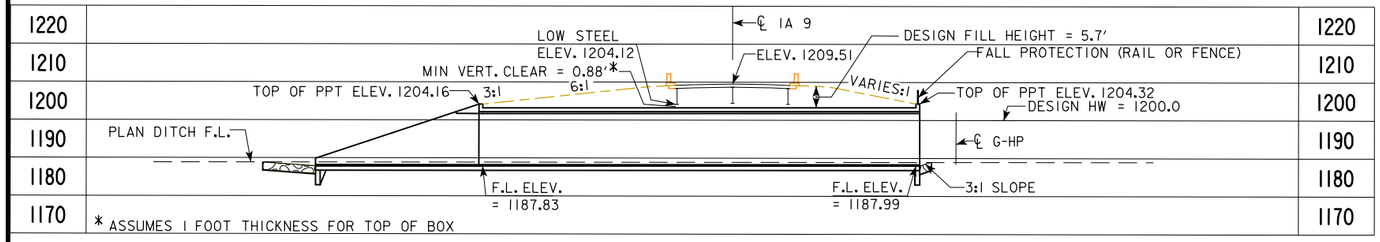
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
None Provided	

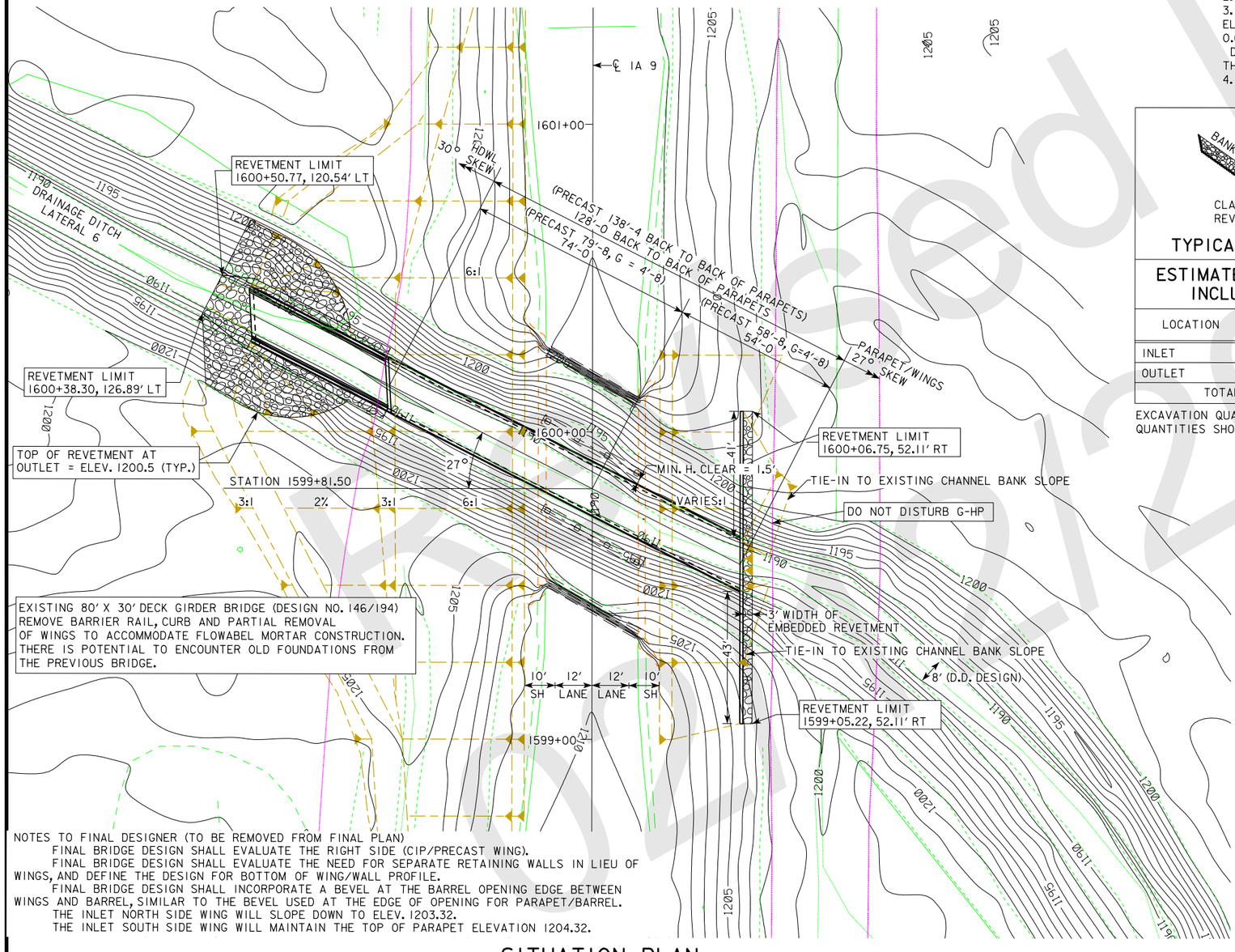
108-25
10-21-14

511 TRAVEL RESTRICTIONS

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
			No Travel Restrictions Expected									



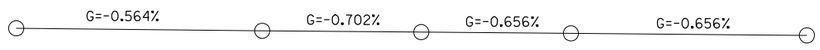
LONGITUDINAL SECTION ALONG ℄ CULVERT



NOTES TO FINAL DESIGNER (TO BE REMOVED FROM FINAL PLAN)
FINAL BRIDGE DESIGN SHALL EVALUATE THE RIGHT SIDE (CIP/PRECAST WING).
FINAL BRIDGE DESIGN SHALL EVALUATE THE NEED FOR SEPARATE RETAINING WALLS IN LIEU OF WINGS, AND DEFINE THE DESIGN FOR BOTTOM OF WING/WALL PROFILE.
FINAL BRIDGE DESIGN SHALL INCORPORATE A BEVEL AT THE BARREL OPENING EDGE BETWEEN WINGS AND BARREL, SIMILAR TO THE BEVEL USED AT THE EDGE OF OPENING FOR PARAPET/BARREL.
THE INLET NORTH SIDE WING WILL SLOPE DOWN TO ELEV. 1203.32.
THE INLET SOUTH SIDE WING WILL MAINTAIN THE TOP OF PARAPET ELEVATION 1204.32.

SITUATION PLAN

BENCH MARK NO. 500 NORTHING 9838630.034, EASTING 12295703.898, ELEV. 1209.85, FOUND CUT X
NW COR NW WING FOOTING 80' X 30' DECK GIRDER BRIDGE ON IOWA HWY 9 OVER DRAINAGE DITCH #54

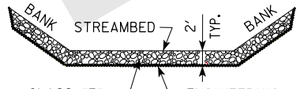


VPI STA = 1599+43.742	VPI STA = 1599+66.242	VPI STA = 1599+80.492	VPI STA = 1599+94.832	VPI STA = 1600+17.232
VPI ELEV = 1209.738	VPI ELEV = 1209.611	VPI ELEV = 1209.511	VPI ELEV = 1209.417	VPI ELEV = 1209.270

REF: SURVEY POINTS AT TOP OF CROWN

PROPOSED PROFILE GRADE IA 9 (U.A.C.)

NOTES:
1. REPLACE EXISTING BRIDGE WITH 14' X 14' RCB USING THE FLOWABLE MORTAR METHOD.
2. THE RCB LENGTH WAS BASED ON A FUTURE PROPOSED ROADWAY SECTION WITH WITH TURN LANES.
3. THE RCB FLOWLINES ARE SET TO AN ELEVATION 1 FOOT BELOW THE PLAN DITCH ELEVATION. THE PLAN DITCH ELEVATION AT THE IA 9 STRUCTURE IS 1188.92 WITH SLOPE OF 0.07%. BASE CHANNEL WIDTH IS 8 FEET WITH 2:1 SIDE SLOPES. (REF. "TRI-JOINT DRAINAGE DISTRICT 54-52-17 LATERAL 6 DITCH CLEAN OUT AND REPAIR PROJECT" DATED MARCH 21, 2017). THE PROJECT WAS COMPLETED IN SUMMER/FALL 2017 AND IS NOT REFLECTED IN SHOWN CONTOURS.
4. THE CONTRACTOR SHALL NOT DISTURB THE G-HP LINE DURING CONSTRUCTION.



TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
INLET	39.5	87.3	24.7
OUTLET	234.9	295.6	146.8
TOTALS	274.4	382.9	171.5

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

(PRELIMINARY)
UTILITIES LEGEND:

FO - FIBER OPTIC
G-HP - HIGH PRESSURE GAS
REFER TO ROAD SHEETS FOR FINAL UTILITY INFORMATION.

HYDRAULIC DATA

DRAINAGE AREA = 9.1 SQUARE MILES

Q 100 = 950 CFS
HW ELEV. = 1200.0
STREAM SLOPE = 0.07% (3.7 FT/MI)

TRAFFIC ESTIMATE

2020 AADT	3000	V.P.D.
2040 AADT	3700	V.P.D.
202_ DHV	_	V.P.H.
TRUCKS	15	%
TOTAL DESIGN ESALs	_	

HYDRAULIC DESIGN

LICENSED PROFESSIONAL ENGINEER
Patricia G. Schwarz
13170
IOWA

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

NOV. 29, 2018
Signature — Date
Patricia G. Schwarz
Printed or Typed Name

My license renewal date is December 31, 2018

Pages or sheets covered by this seal: 1 OF 1

LOCATION

IA 9 OVER DRAINAGE DITCH LATERAL 6
T-98N R-23W
SECTIONS 25 & 36
MOUNT VALLEY TOWNSHIP
WINNEBAGO COUNTY
LATITUDE 43.270023°
LONGITUDE -93.516864°

N

0 ENGLISH 40
SCALE IN FEET

PRELIMINARY

DESIGN FOR 27° SKEW (L.A.)

14'-0 X 14'-0 X 128'-0 REINFORCED CONCRETE BOX CULVERT

SITUATION PLAN

STATION 1599+81.50 IA 9 NOVEMBER 2018

WINNEBAGO COUNTY

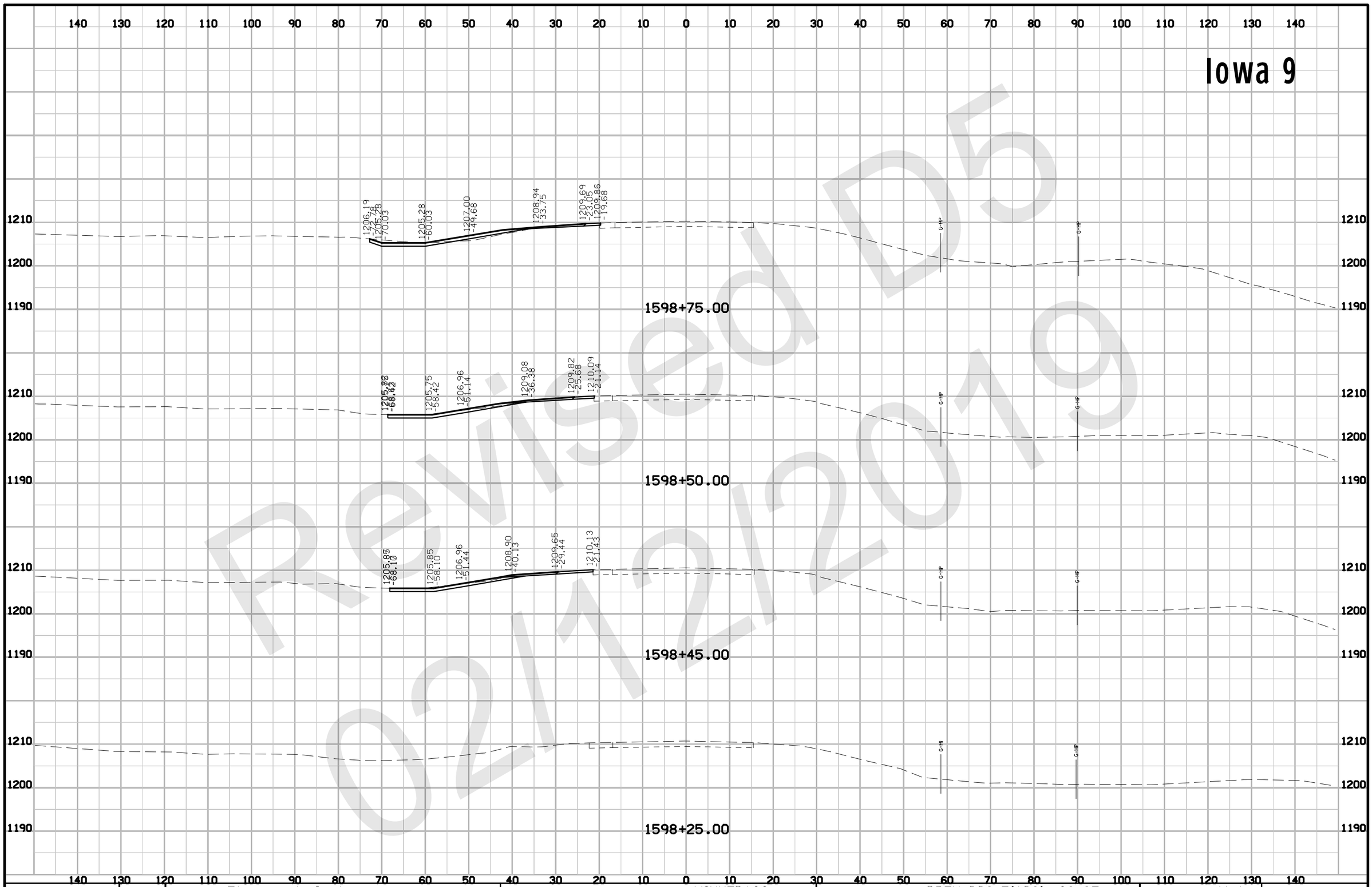
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 1 OF 1 FILE NO. 31579 DESIGN NO. 120

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER V.1

9:09:06 AM 2/12/2019 pcarls2 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9500901015\Design\CADD\Sheet_Files\95009109_V01.dgn

Iowa 9



FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER W.1

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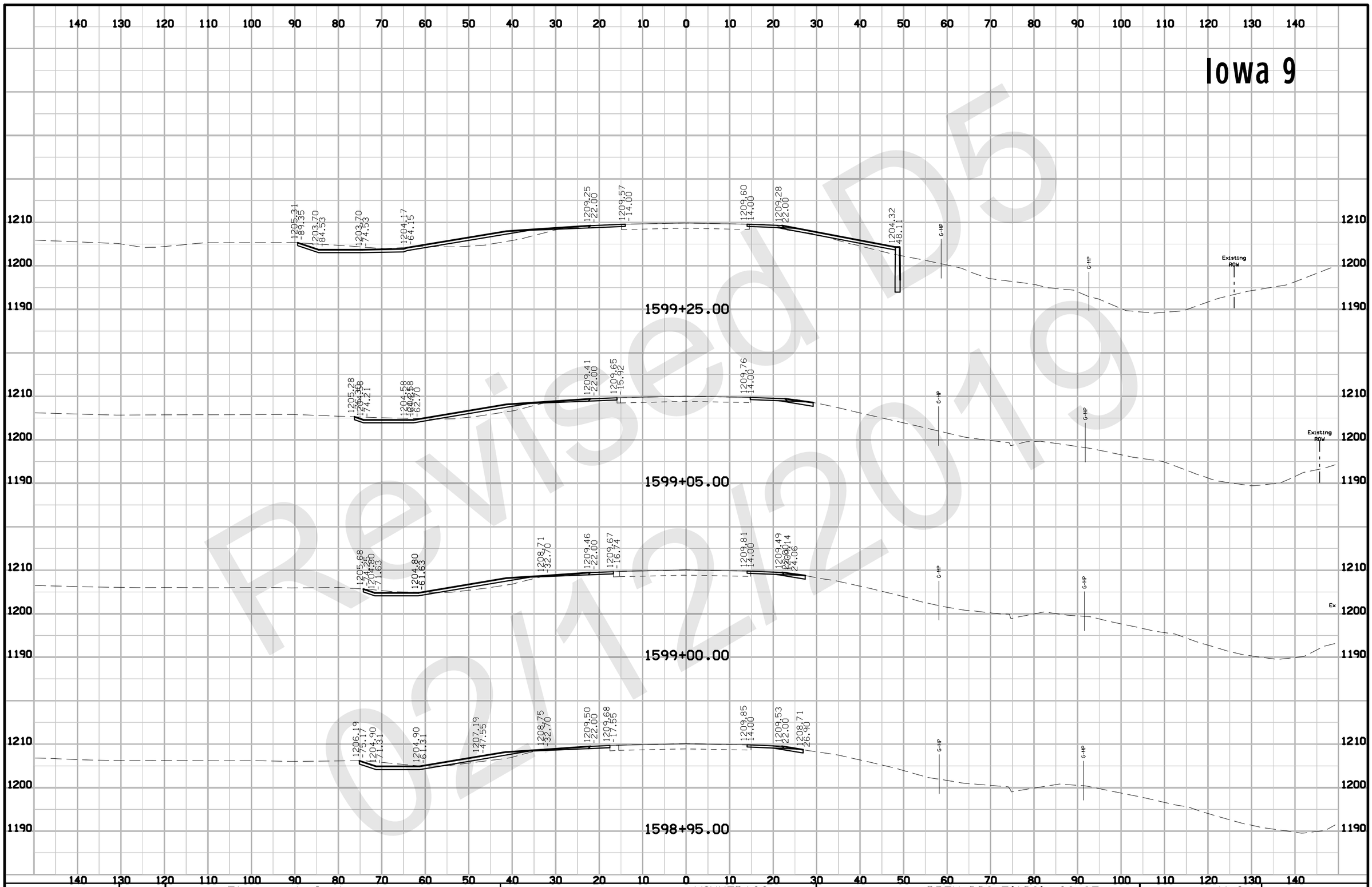
Iowa 9



FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER W.2

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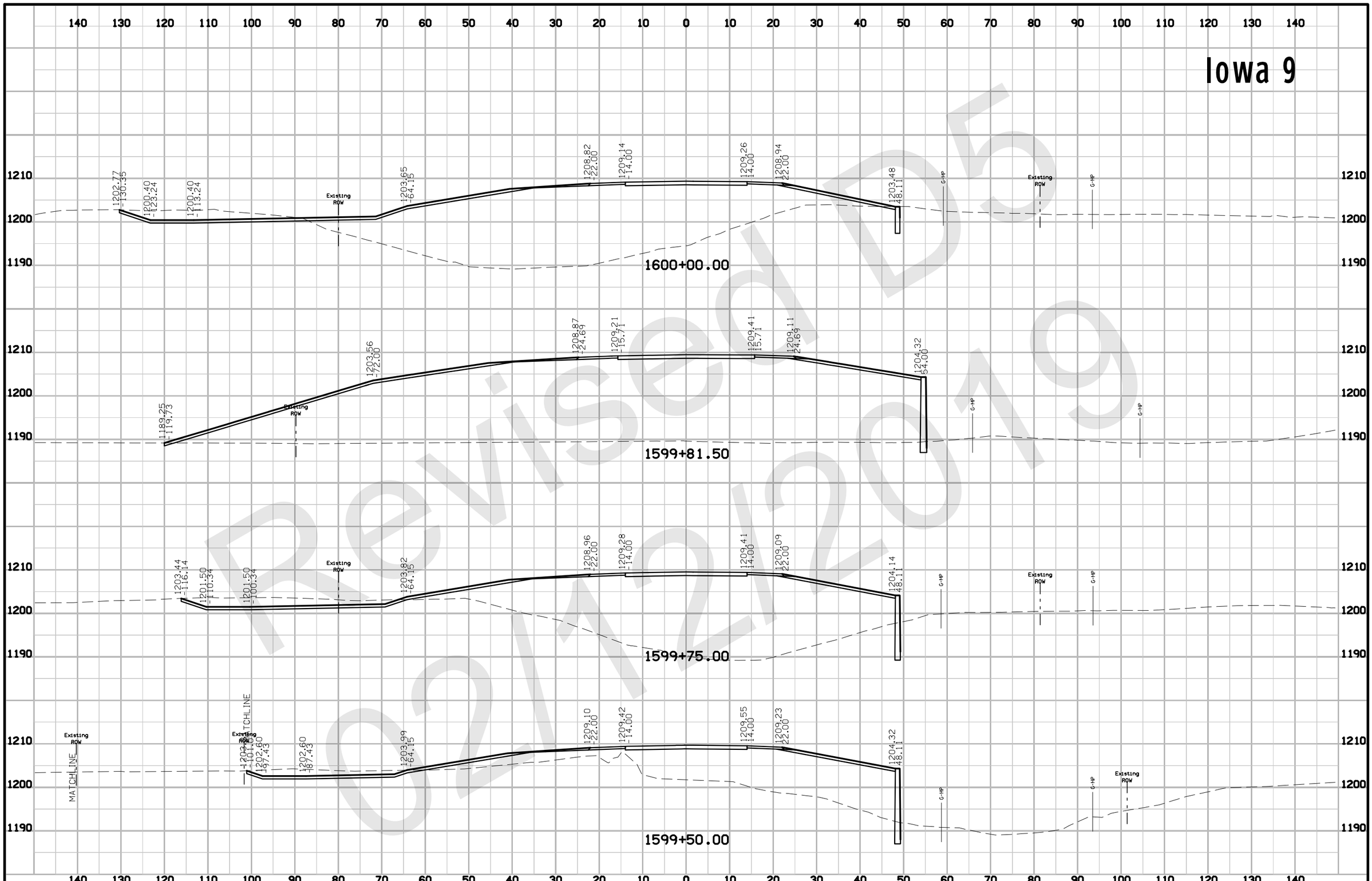
Iowa 9



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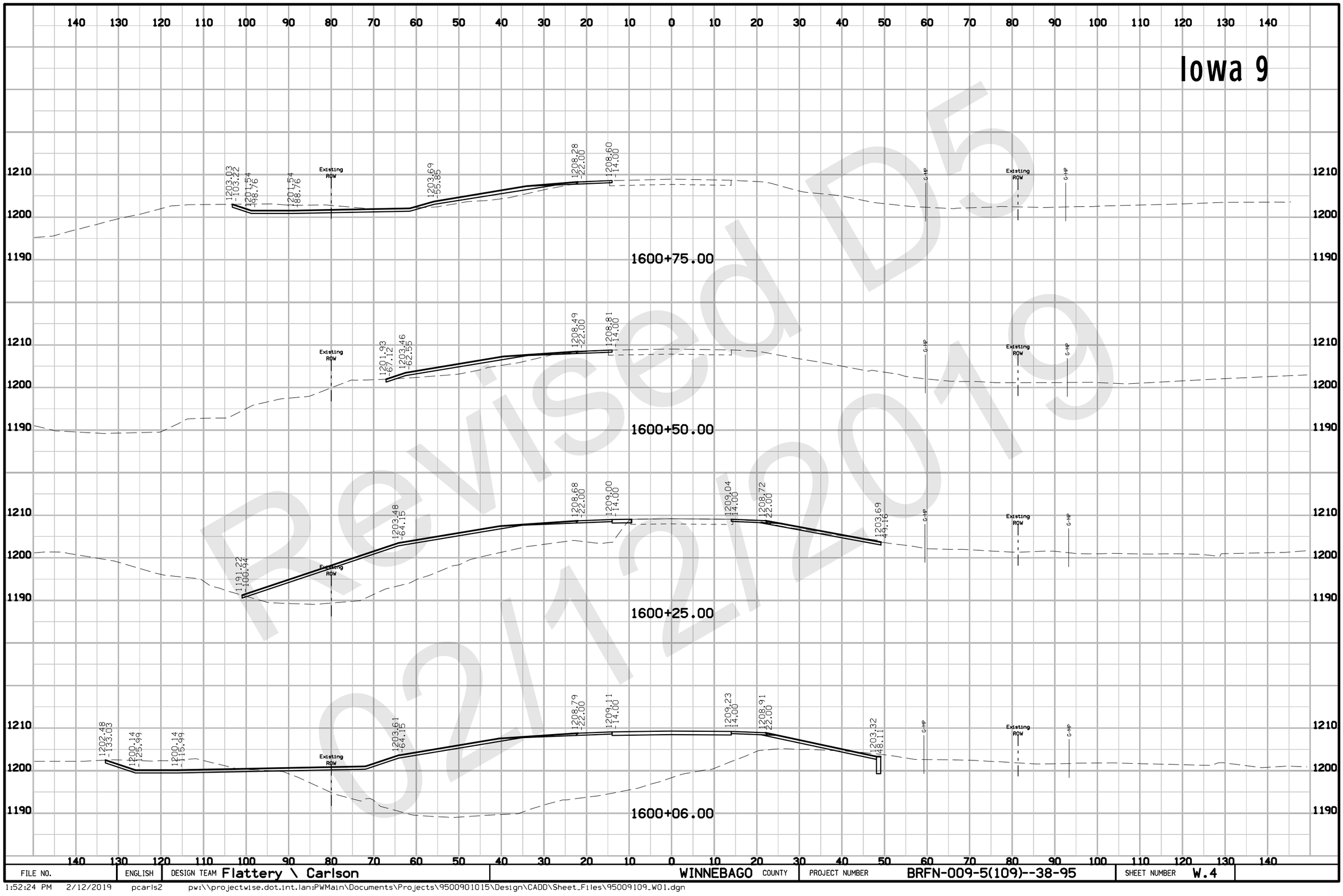
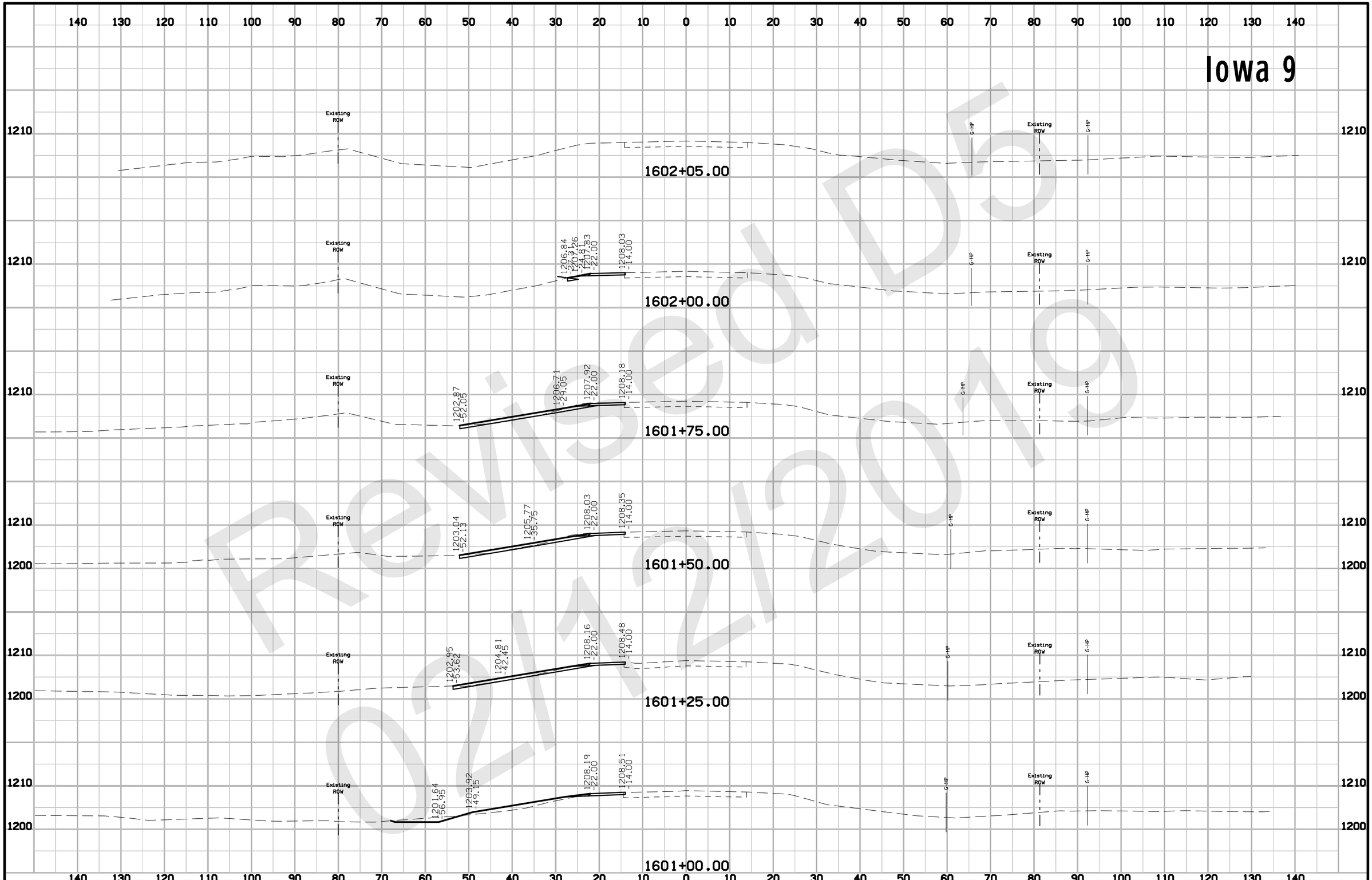
Iowa 9



FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER W.4

1:52:24 PM 2/12/2019 pcarls2 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9500901015\Design\CADD\Sheet_Files\95009109_W01.dgn

Iowa 9



FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER W.5

1:52:25 PM 2/12/2019 pcarls2 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9500901015\Design\CADD\Sheet_Files\95009109_W01.dgn

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

Iowa 9

1210

Existing ROW

G-HP

Existing ROW

G-HP

1602+25.00

1210

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Carlson	WINNEBAGO COUNTY	PROJECT NUMBER BRFN-009-5(109)--38-95	SHEET NUMBER W.6

1:52:26 PM 2/12/2019 pcarls2 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9500901015\Design\CADD\Sheet_Files\95009109_W01.dgn

Winnebago	ROW: STPN-009-5(110)--2J-95				PIN	15-95-009-010															
	Ditch 0.1 mi E of Co Rd R74																				
		STATE			COUNTY			CITY				TEMP EASE		BORROW							
PARCEL NO.	OWNER NAME	FEE	EASE		FEE	EASE		FEE	EASE		EXCESS			FEE	T.E.	MITIGATION	OTHER	HOUSE	BUILDING(S)	A/C ONLY	TOTAL ACQ.
2	KEVIN MONSON - Fee	0 AC	0.26 AC									0.05 AC									
2D	DRAINAGE DITCH NO. 54 - Fee																				
2 Parcels	"TOTALS	0 AC	0.26 AC		0 AC	0 AC		0 AC	0 AC		0 AC	0.05 AC		0 AC	0 AC	0 AC					
		0 SF		0 SF	0 SF		0 SF	0 SF		0 SF	0 SF		0 SF								

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.