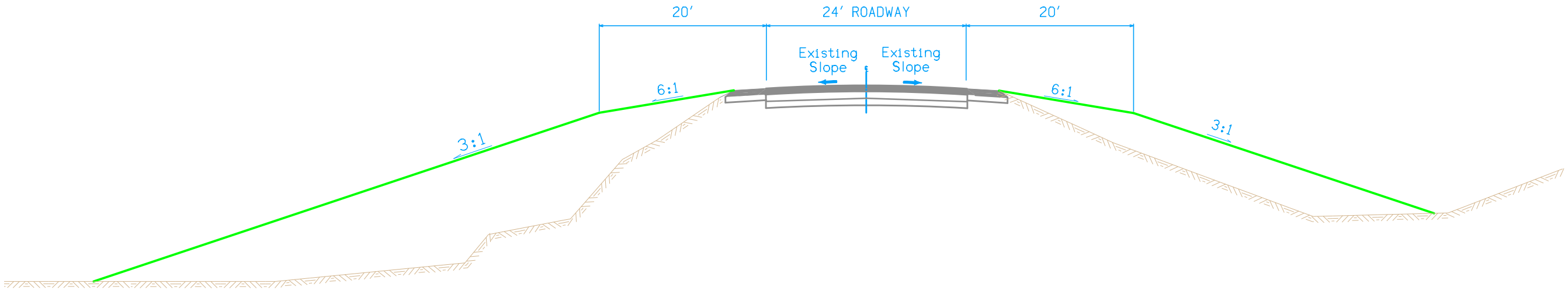


Clearzone 20'
Design Manual 8A-2 Acceptable Table
55 mph, ADT 1500-6000
















UTILITY LEGEND







This is NOT a POINT 25 Project and is not subject to the provisions of IAC 761-115.25.

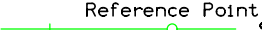


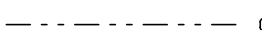

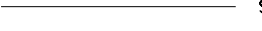
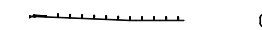

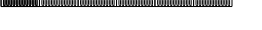
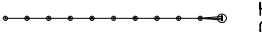


-w- Poweshiek Water Association
 Chad Coburn
 125 Industrial Drive
 Brooklyn, IA 52211
 (641) 522-7416
 chad@poweshiekwater.com









PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.		
Green	(2)		Existing Topographic Features and Labels 21-79-146-010
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities STPN-146-2(41)--2J-79
SHADING		Design Color No.	
Yellow	(4)		Highlight for Critical Notes or Features STPN-146-2(42)--2J-79
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

Symbol	Description
	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

Symbol	Description
	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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

ESTABLISHED WIDTH OF RIGHT OF WAY _____ FT.

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	Iowa	891 (2)		10	97

GRANT TWP
T-80N. R-16W.

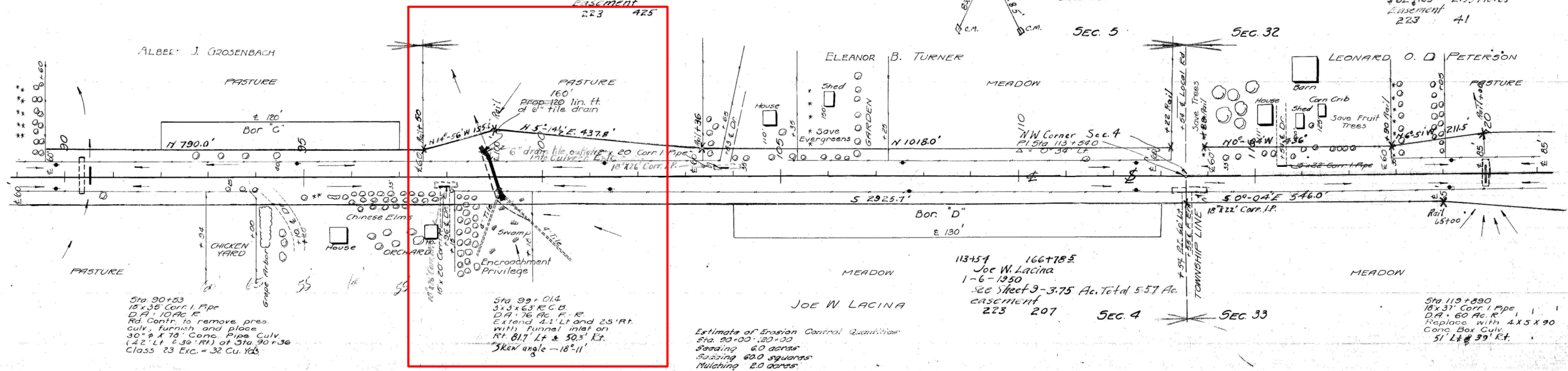
CHESTER TWP
T-81N. R-16W.

113+54 140+167
Leonard O. Pedersen
6-7-1919 2.33 Acres
Easement
223 41

DATE	BY

DATE	BY

DATE	BY



*7A Sta. 99+01.4 I.H.C. B.M. in Rt. Hdwl 3'x3' Culv. El. 990.79
*9A Sta. 119+89 I.H.C. B.M. in Rt. Hdwl 4'x5' Culv. El. 1009.34

BENCH MARKS:
#7 Sta. 93+35 R.R. Spike in S.E. Side 15' Boarder. 128' Lt. El. 999.24 29
#8 Sta. 105+00 R.R. Spike in East root 40' Maple. 90' Lt. El. 1010.44 13
#9 Sta. 115+75 R.R. Spike in East root 36' Maple. 102' Lt. El. 1018.98

Estimate of Erosion Control Quantities:
Sta. 90+00 - 20+00
Seeding 60 acres
Staking 60.0 squares
Mulching 20 acres

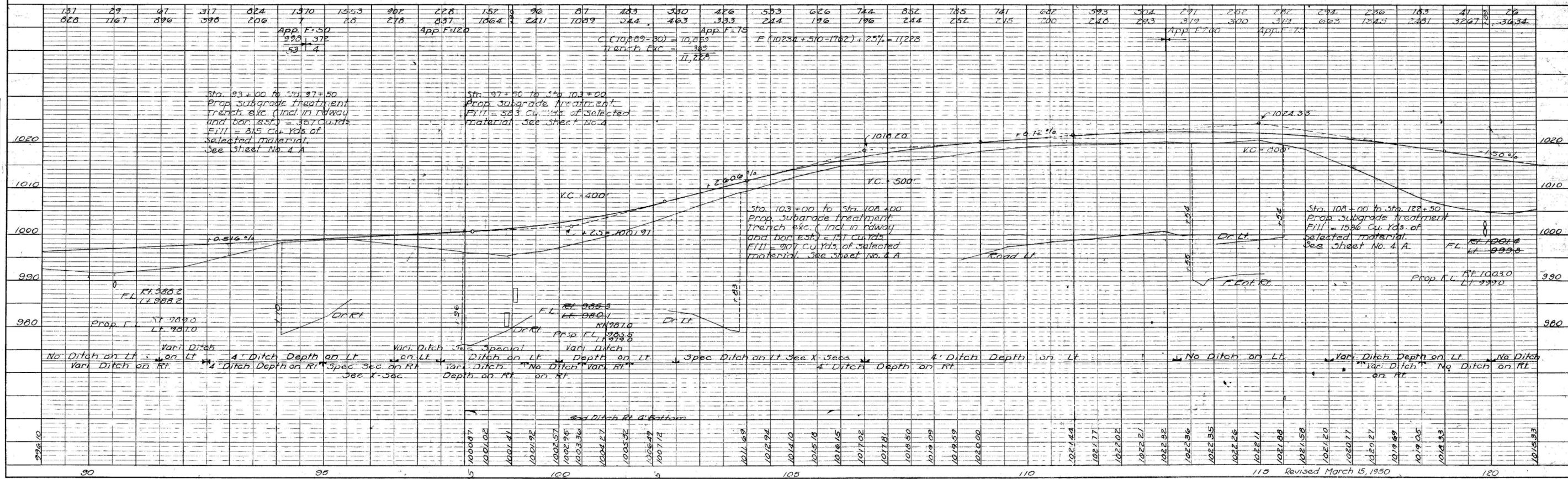


PLATE 1 - PLAN - PROFILE O.F.R. & E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

Revised March 15, 1950
Poweshiek - Tama - Marshall Cos F. Proj. # 891 (2) Sheet # 10

DIMIT FAMILY FARMS LLC

GRANT TWP.
T-80N R-16W
SEC. 5

MITZI PEDERSON



TEMPORARY EASEMENT
FOR BORE PIT

R/W



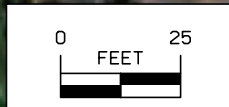
146

SEC. 4

TEMPORARY EASEMENT FOR
WORKING ROOM

STA. 98+94
3'x3'x144' RCB
D.A. = 114 A-R
(REMOVE PORTION
FILL AND ABANDON)
STA. 98+75
JACK 48"x148' RCP+2 Aprons
F.L. Lt. 976.73
Rt. 986.92

THOMAS LACINA



Survey Information

County: Poweshiek
PIN: 21-79-146-010
Project Number: STPN-146-2(41)--2J-79
Location: Between sections 4 & 5, Township 80 North, Range 16 West of the 5th Principal Meridian, Poweshiek County, Iowa, on IA. 146 near station 99+01.4+/- (this survey).
Type of Work: Ditch reshaping with corrugated metal pipes update/replacement under the residential access drive of 9489 Hwy 6 E., to correct drainage issues.
Project Directory: 7914601021

General Information

Measurement units for this survey are U.S. survey feet. This survey was completed to assist in the design of a ditch reshape/revetment and replacement/updating of a twin 48"x36"RCB under IA Hwy 146, to correct drainage issues.

Vertical Control

The vertical datum for this survey is NAVD88. The vertical control for this project is relative to said datum, computed using GEOID 12b, and is dependent on the Iowa Real-Time Network (IaRTN) reference stations. Control point elevations were established by 5 redundantly averaged RTK GPS shots utilizing the IaRTN.

Horizontal Control

The horizontal project coordinate system basis for this survey is from the Iowa Regional Coordinate System Zone 9 projection. The Geodetic Datum is NAD83 (2011) EPOCH 2010.0. Control Point horizontal coordinate positions were established by 5 redundantly averaged RTK GPS shots utilizing the Iowa Real-Time Network.

Alignment Information

The horizontal centerline alignment for U.S. 6 is a retrace of as-built plan F-891(2). Stationing was held at PI 57+85.6 and was ran ahead without equation.

Survey stationing relates to as-built stationing as follows:

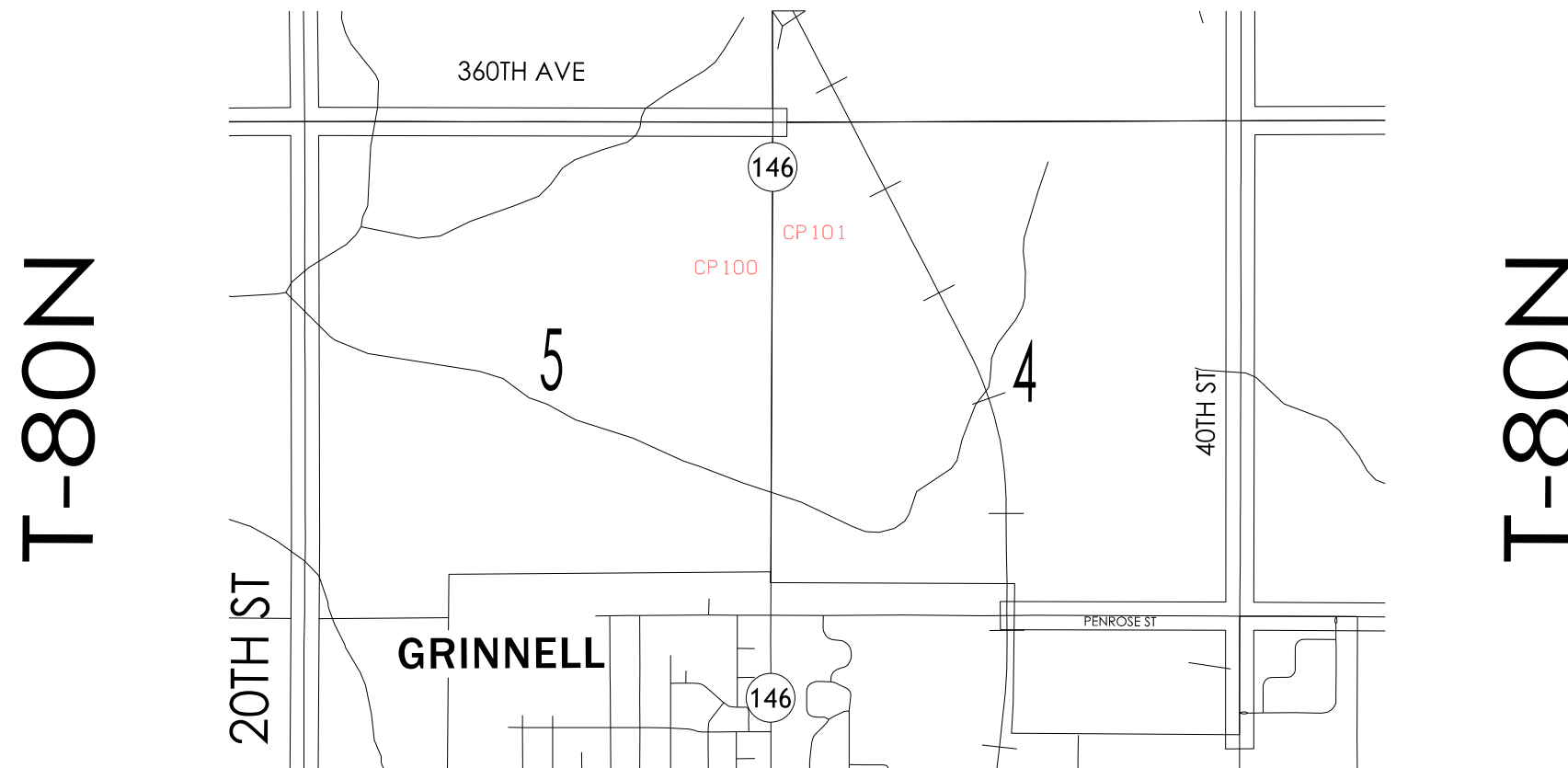
PI Sta. 57+85.6 (Plan F-891(2)) = PI Sta. 57+85.6 (this survey)
Found IDOT Aluminum monument from reference ties

PI Sta. 113+54.0 (Plan F-891(2)) = PI Sta. 113+52.44 (this survey)
Found IDOT Aluminum monument from reference ties

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.

R-16W



R-16W

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 9

Coordinate listing from next sheet will be used with 1aRTN for monument
recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 9

PointName	Northing	Easting	Elevation	Feature Definition	Description
CP100	7754379.367	19524362.61	999.172	CP	"SET 5/8"" RE-ROD (FL) ELEV. ADJ."
CP101	7754762.325	19524398.92	1003.345	CP	"SET 5/8"" RE-ROD (FL) ELEV. ADJ."



SE 1/4 NE FRL 1/4
SEC. 5

DIMIT FAMILY
FARMS, LLC.

GRANT TWP
T-80N R-16W
SEC 5

TEMPORARY EASEMENT
FOR PIPE JACKING

NE FRL 1/4 NE FRL 1/4
SEC. 5

MITZI J. PEDERSON

97+48±R
CL160'

98+52
CL108'

99+00
CL160'

98+66
CL91'±EX.R/W

98+17
CL108'

97+88
CL70'±EX. R/W

99+99
CL91'±EX.R/W

STA. 98+89.10
48" x 144' RCP
D.A. = 114 A-R

96

97

98

99

100

101

146

146

98+66
CL60'±EX.R/W

99+39
CL60'±EX.R/W

98+35
CL60'±EX.R/W

100+00
CL60'±EX.R/W

98+35
CL100'

98+91
CL80'

99+13
CL80'

100+00
CL100'

GRANT TWP
T-80N R-16W
SEC 4

STA. 98+89.10
48" x 144' RCP
D.A. = 114 A-R

2

THOMAS A. LACINA

SW 1/4 NW FRL 1/4
SEC. 4

TEMPORARY EASEMENT
FOR WORKING ROOM

STA. 98+75
JACK 48"x148' RCP+2 Aprons

STA. 98+94
3'x3'x144' RCB
D.A. = 114 A-R
(REMOVE PORTION
FILL AND ABANDON)

NW FRL 1/4 NW FRL 1/4
SEC. 4

Right of Way Design Information

**THIS SHEET INCLUDED
FOR INFORMATION ONLY**

ROW Team: Hughes / Larson
ROW #: STPN-146-2(42)--2J-79
Plan Date: 11-3-2021

Color Legend:

-  **Property Lines**
-  **Temporary Easement**
-  **Permanent Acquisition**



IA 146 Preliminary

