

AGENDA

Board of Public Works Meeting
Tuesday, November 24, 2015 – 7:00 P.M.
Jackson Village Hall
N168W20733 Main Street

1. Call to Order and Roll Call.
2. Approval of Minutes for October 27, 2015, meeting.
3. Review of Bids for Stonewall Connector Trail Project.
4. Acceptance of Work - West Shore Pipeline Water Extension Project.
5. Pay Request #3 – Georgetown Dr. Reconstruction Project.
6. Pay Request #2 – Jackson Dr Sidewalk Project.
7. Review of Jackson Sewer Utility Pumper Truck Upgrade.
8. Purchase of Huro Spin Doctor Valve Turner.
9. Engineering proposal for Jackson Sewer Utility SCADA System Upgrade.
10. Jackson Storm Water Management Plan Update.
11. Director of Public Works Report.
12. Citizens/Village Staff to address the Board.
13. Adjourn.

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Village Hall at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

DRAFT MINUTES
Board of Public Works Meeting
Tuesday, October 27, 2015 – 7:00 P.M.
Jackson Village Hall
N168W20733 Main Street

1. Call to Order and Roll Call.

Chairman Tr. Don Olson called the meeting to order at 7:05 p.m.

Members present: Tr. Scott Mittelsteadt, Linda Granec, Brian Heckendorf, Scott Thielmann, Corinne Benson, and Tr. Jack Lippold.

Members excused: None.

Not Present: None.

Staff present: Brian Kober, John Walther

2. Approval of Minutes for September 29, meeting.

Motion by Corinne Benson, second by Scott Thielmann to approve the minutes of the September 29, 2015, Board of Public Works meeting.

Vote: 7 ayes, 0 nays. Motion carried.

3. Pay Request #2 – Georgetown Dr. Reconstruction Project.

Brian Kober presented information on the project.

Motion by Tr. Olson, second by Linda Granec to recommend the Village Board approve Pay Request #2 for Georgetown Drive Reconstruction Project in the amount of \$238,910.29.

Vote: 7 ayes, 0 nays. Motion carried.

4. Review of Bids for Stonewall Connector Trail Project.

Brian Kober and John Walther attended a WisDOT plan review meeting to receive approval for the project. The DNR was not present at the meeting. WisDOT is enforcing the standard of a 10 ft wide trail if the trail is call a “path”. A guardrail between the path and ditch because of the grade would need to be installed. Also, 600 ft of curbing with two storm inlets will need to be installed. If we call the trail a “sidewalk” then no standards are enforced by WisDOT, but we may not qualify for the DNR grant.

Motion by Tr. Olson, second by Linda Granec to refer the item to the next Board of Public Works Meeting with a cost comparison on trail options.

Vote: 7 ayes, 0 nay. Motion carried.

5. Pay Request #1 – Jackson Drive Sidewalk Project.

Brian Kober reviewed the project with the Board. Motion by Tr. Mittelsteadt, second by Tr. Lippold to Recommend the Village Board approve Pay Request #1 for Jackson Drive Sidewalk Project in the amount of \$51,769.35.

Vote: 7 ayes, 0 nays. Motion carried.

6. Acceptance of Work – West Shore Pipeline Water Extension Project.

Brian Kober explained the proper paperwork has not been received for review and approval.

Motion by Tr. Lippold, second by Corinne Benson, to refer the item to the next Board of Public Works Meeting.

Vote: 7 ayes, 0 nays. Motion carried.

7. Pay Request #3 – Georgetown Dr. Reconstruction Project.

Brian Kober explained the proper paperwork has not been received for review and approval. Motion by Tr. Olson, second by Linda Granec, to refer the item to the next Board of Public Works Meeting.

Vote: 7 ayes, 0 nays. Motion carried.

8. Milwaukee River Watershed Conservation Partnership

Brian Kober updated the Board on the possible partnership. Information only and no action was necessary.

9. Director of Public Works Report.

Brian Kober reviewed the Public Works Report.

Motion by Linda Granec, second by Scott Thielmann to place the report on file.

Vote: 7 ayes, 0 nays. Motion carried.

10. Citizens/Village Staff to address the Board.

Brian Heckendorf asked if Stonewall Drive and English Oaks will be paved this year? Brian Kober answered that there is still a possibility that it could happen this year, weather permitting.

11. Adjourn.

Motion by Tr. Mittelsteadt, second by Brian Heckendorf to adjourn at 7:46 p.m.

Vote: 7 ayes, 0 nays. Motion carried.

Respectfully submitted by: Brian W. Kober, P.E., Director of Public Works

Bid Evaluation - Unit Price Contract

Stonewall Connector Trail
 Ridgeway Rd to Eagle Dr
 Village of Jackson, Wisconsin
 Bloom Project No. BM1-3372

Bid Opening: July 21, 2015, 10:00 AM

Johnson & Sons, LLC.

Item No.	Item	Unit	Estimated Quantity	Bidder No. 3		REVISED Engineer's Estimate		
				Unit Price	Total	Estimated Quantity	Unit Price	Total
	Excavation Common	CY	600	\$ 33.00	\$ 19,800.00	175	\$33.00	\$ 5,775.00
	Base Aggregate Dense 1-1/4 Inch	TON	530	\$ 20.00	\$ 10,600.00	420	\$20.00	\$ 8,400.00
	Tack Coat	GAL	--	--	\$ -	56	\$5.00	\$ 280.00
	Asphaltic Surface	TON	370	\$ 115.00	\$ 42,550.00	270	\$115.00	\$ 31,050.00
	Concrete Sidewalk 5 Inch	SF	270	\$ 9.30	\$ 2,511.00	69	\$9.30	\$ 641.70
	Curb Ramp Detectable Warning Field Yellow	SF	32	\$ 74.40	\$ 2,380.80	8	\$74.40	\$ 595.20
	Mobilization	EACH	1	\$ 1,143.45	\$ 1,143.45	1	\$1,143.45	\$ 1,143.45
	Salvaged Topsoil	SY	1640	\$ 1.50	\$ 2,460.00	898	\$1.50	\$ 1,347.00
	Mulching	SY	1500	\$ 1.00	\$ 1,500.00	898	\$1.00	\$ 898.00
	Erosion Bales	EACH	184	\$ 22.00	\$ 4,048.00	216	\$22.00	\$ 4,752.00
	Silt Fence	LF	1200	\$ 2.50	\$ 3,000.00	1,138	\$2.50	\$ 2,845.00
	Silt Fence Maintenance	LF	1200	\$ 0.70	\$ 840.00	1,138	\$0.70	\$ 796.60
	Erosion Mat Class I Type B	SY	62	\$ 4.50	\$ 279.00	370	\$4.50	\$ 1,665.00
	Inlet Protection Type C	EACH	1	\$ 126.00	\$ 126.00	2	\$126.00	\$ 252.00
	Tracking Pads	EACH	3	\$ 1,200.00	\$ 3,600.00	4	\$1,200.00	\$ 4,800.00
	Seeding Mixture No. 20	LB	45	\$ 15.00	\$ 675.00	25	\$15.00	\$ 375.00
	Posts Wood 4x4 Inch x 12 Ft	EACH	2	\$ 126.00	\$ 252.00	1	\$126.00	\$ 126.00
	Signs Type II Reflective H	SF	12.125	\$ 62.00	\$ 751.75	10	\$62.00	\$ 620.00
	Traffic Control	EACH	1	\$ 240.00	\$ 240.00	1	\$240.00	\$ 240.00
	Traffic Control Drums	DAY	1350	\$ 1.00	\$ 1,350.00	420	\$1.00	\$ 420.00
	Traffic Control Signs	DAY	270	\$ 1.00	\$ 270.00	140	\$1.00	\$ 140.00
	Pavement Marking Stop Line Epoxy 24 Inch	LF	20	\$ 2.50	\$ 50.00	20	\$2.50	\$ 50.00
	Pavement Marking Crosswalk Epoxy 12 Inch	LF	100	\$ 2.50	\$ 250.00	100	\$2.50	\$ 250.00
				Total No. 3	\$ 187,888.00	Total Est.		\$ 67,461.95

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson\C344Sheets\Plan\050001-pp.dwg
 PLOT BY : ----
 SHEET SET : 5.00
 PLOT SCALE : 40:1

BP: 0+00.00

INSTALL TRAFFIC CONTROL
 PER SDD "TRAFFIC CONTROL,
 WORK ON SHOULDER OR
 PARKING LANE, UNDIVIDED
 ROADWAY."
 (SEE DETAIL)

BEGIN PROJECT
 STA. 1+00.00
 Y=147,930.33
 X=369,778.96

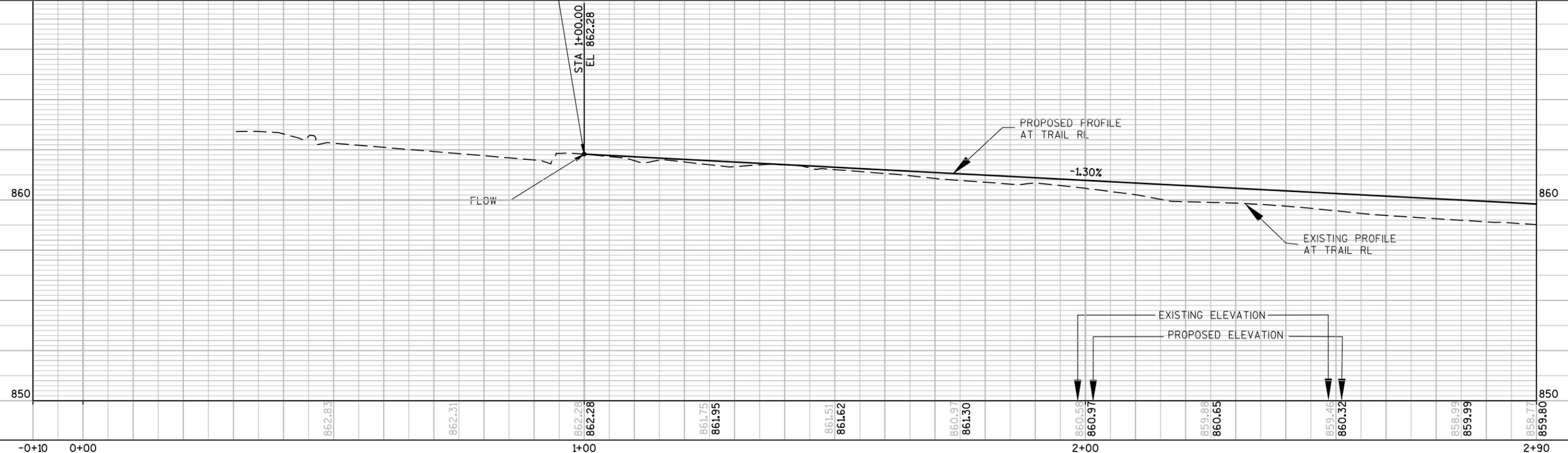
RIDGEWAY RD

STH 60 (MAIN STREET)

APPROX. R/W

SLOPE INTERCEPT
 TYP

PC: 2+22.35

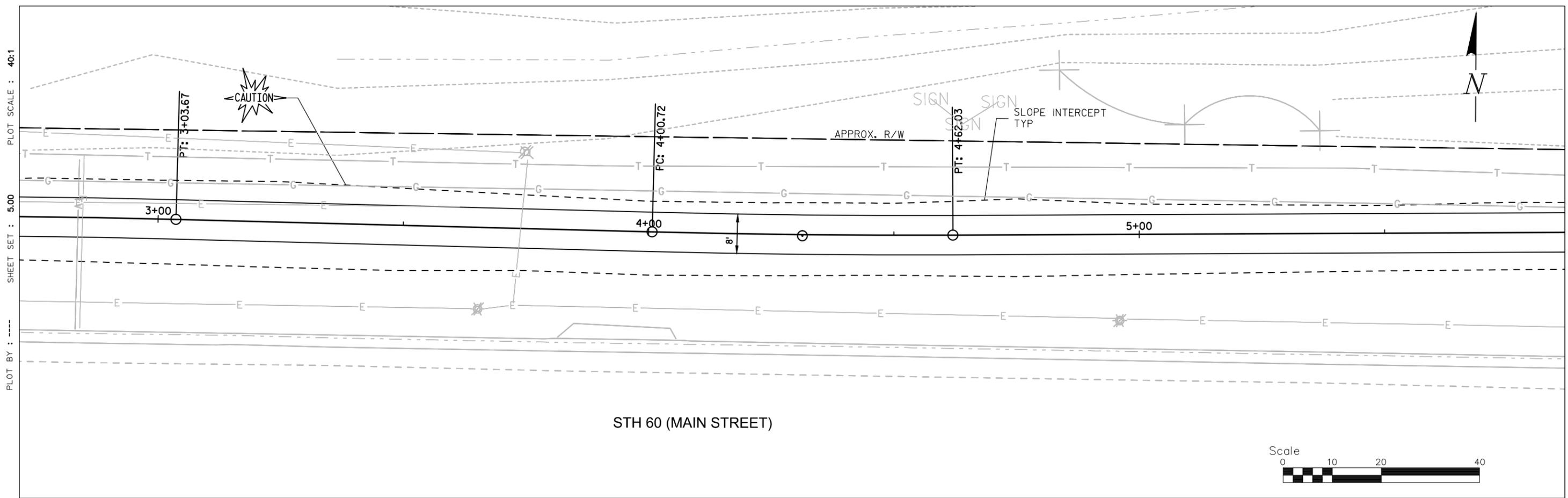


BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity
 10501 W. Research Drive • Milwaukee, WI 53226
 Phone: (414) 771-3390 Fax: (414) 771-4490

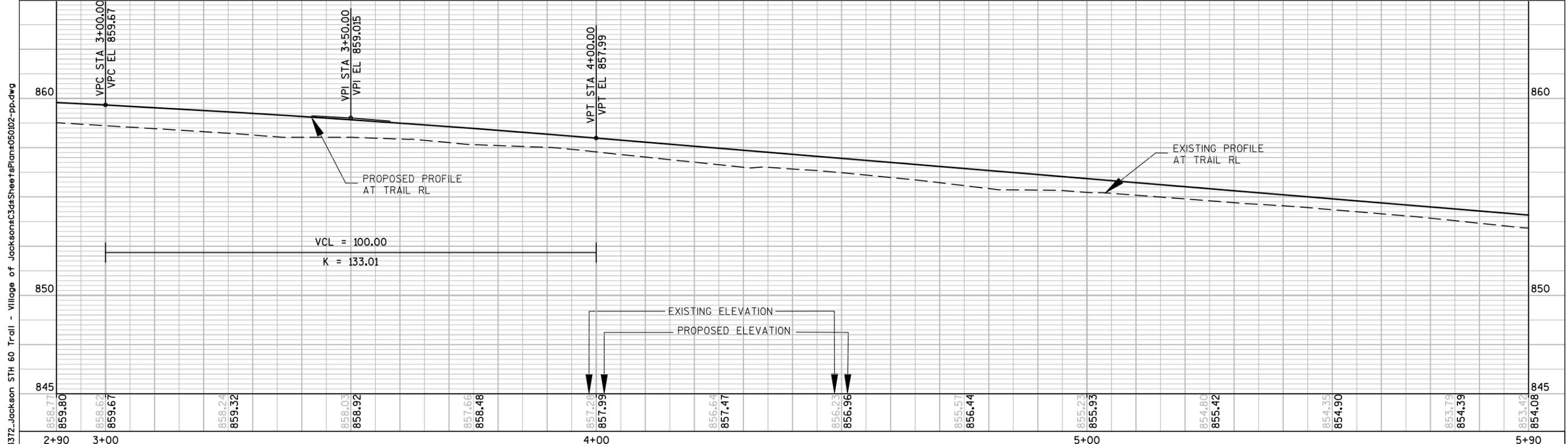
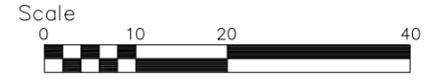
**STONEWALL CONNECTION TRAIL
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

PLAN & PROFILE			Date 11/19/15
Designer NRK	Technician TAL	Approval SMC	Sheet Number

PLOT SCALE : 40:1
SHEET SET : 5.00
PLOT BY : -----



STH 60 (MAIN STREET)



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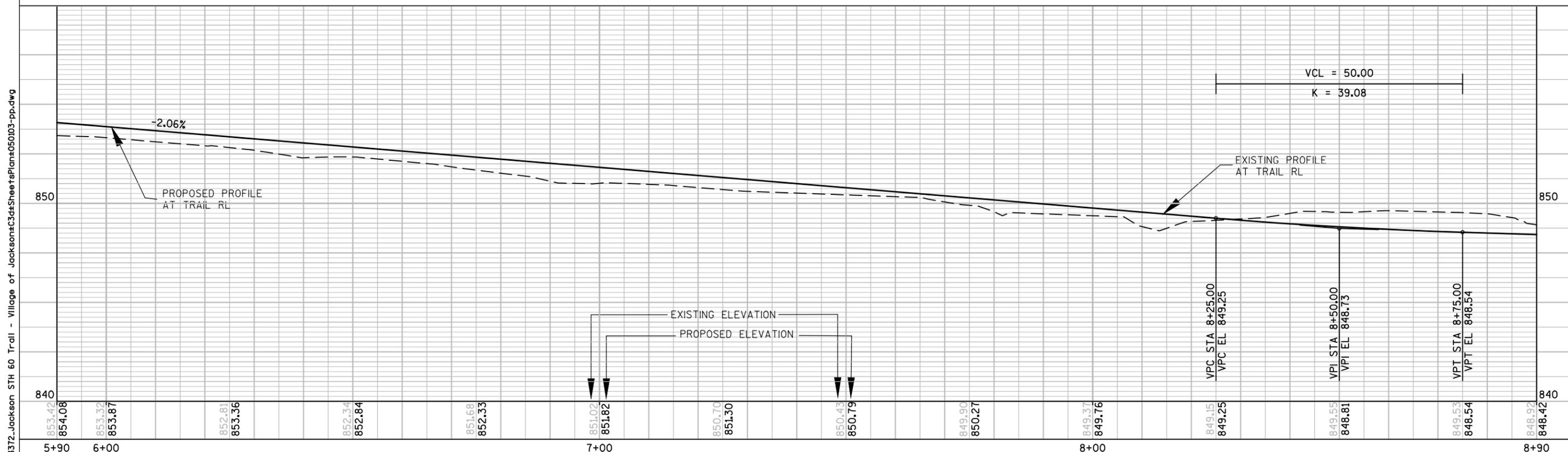
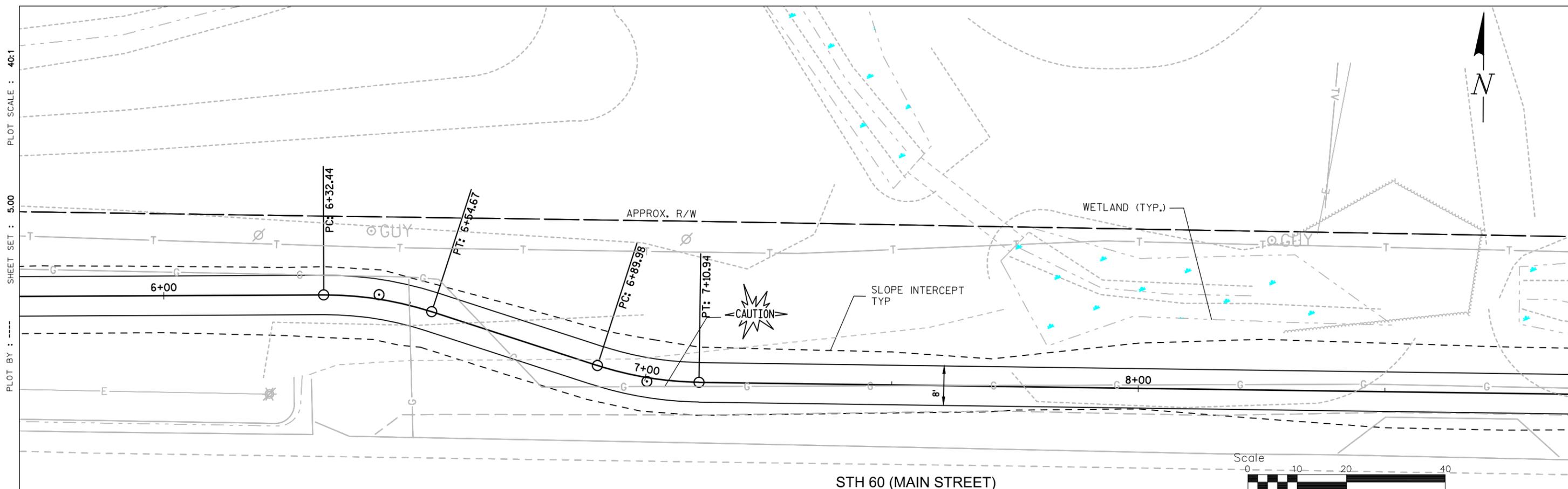
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PLOT BY : -----
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 PLOT SCALE : 40:1

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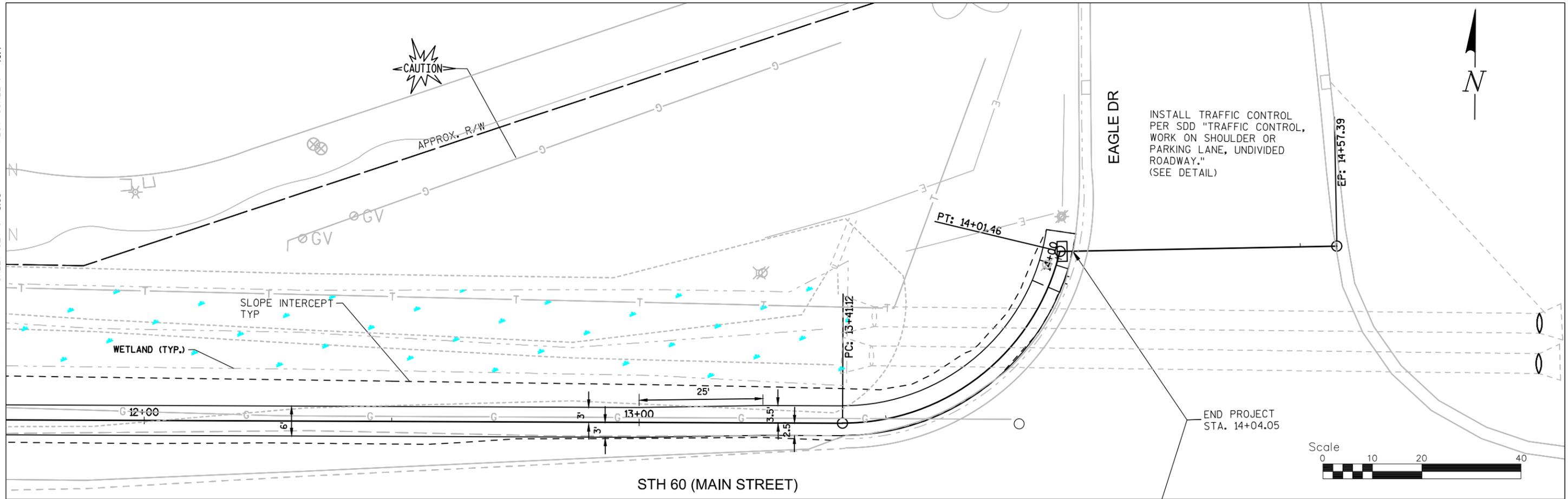


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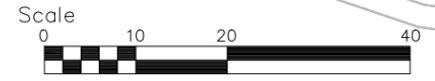
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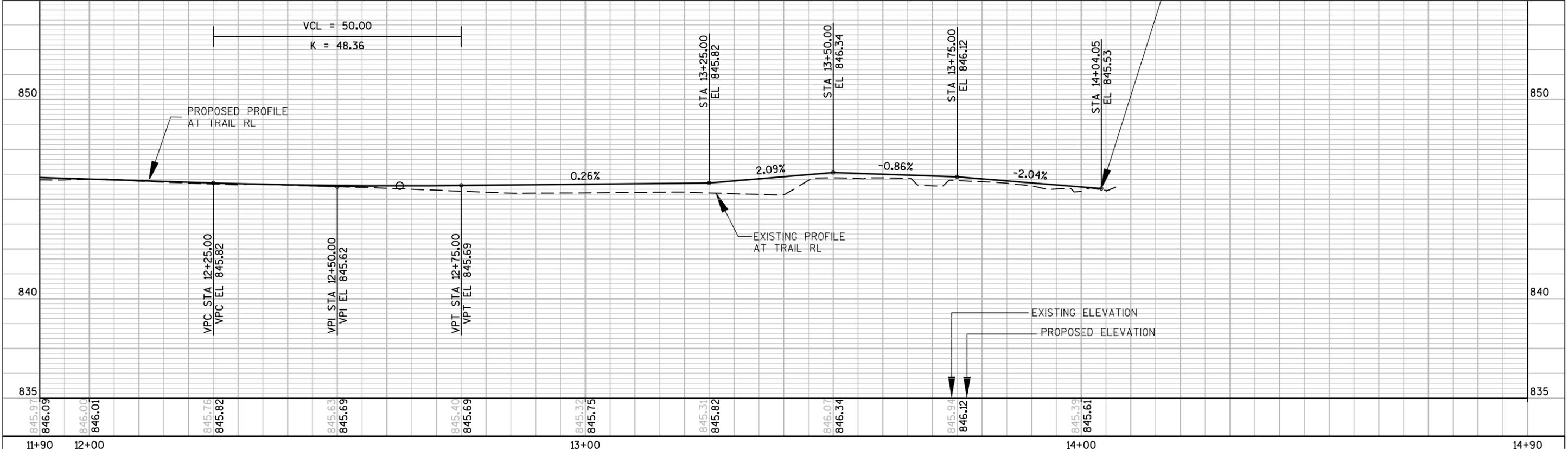
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INSTALL TRAFFIC CONTROL PER SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY." (SEE DETAIL)



STH 60 (MAIN STREET)

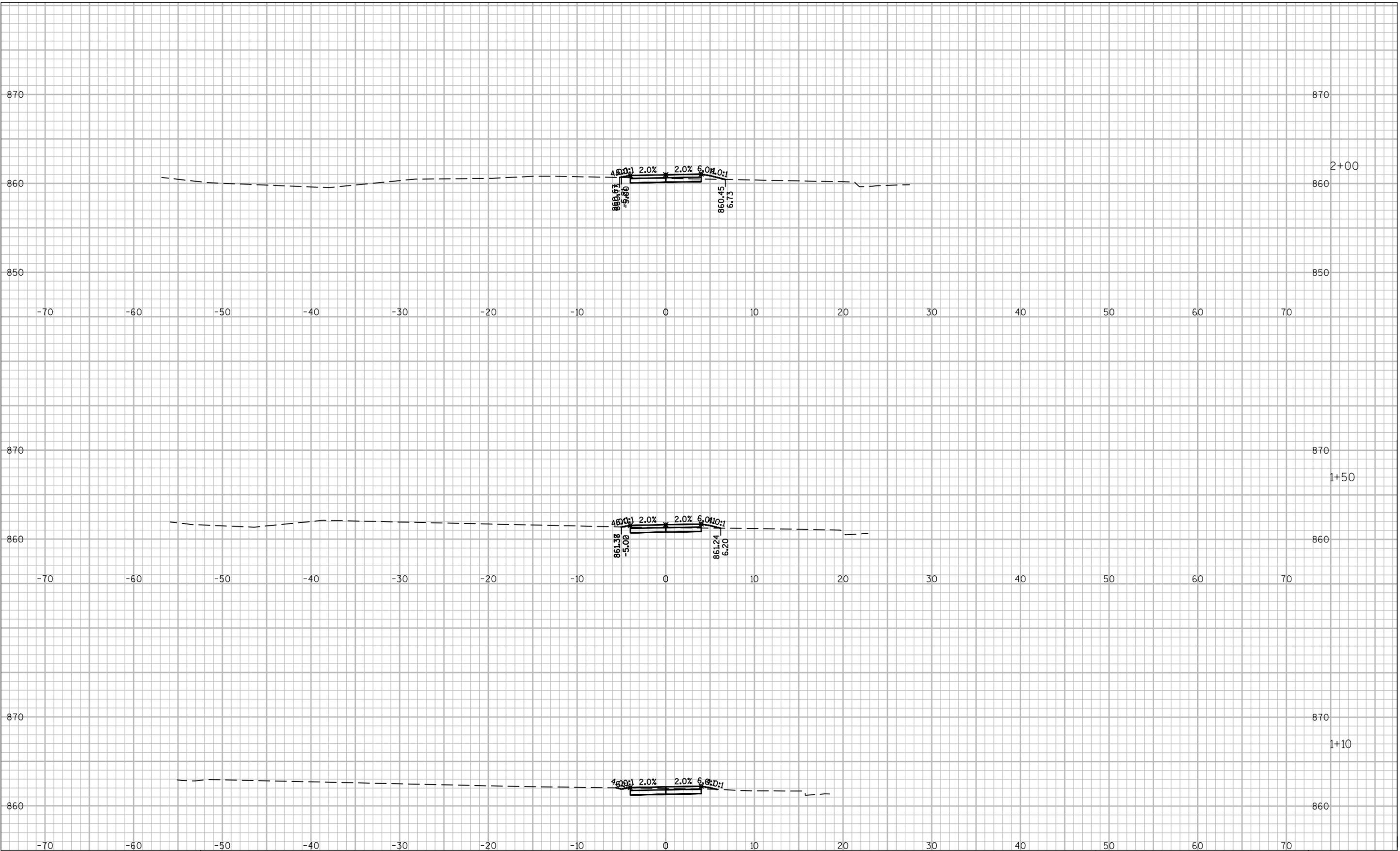


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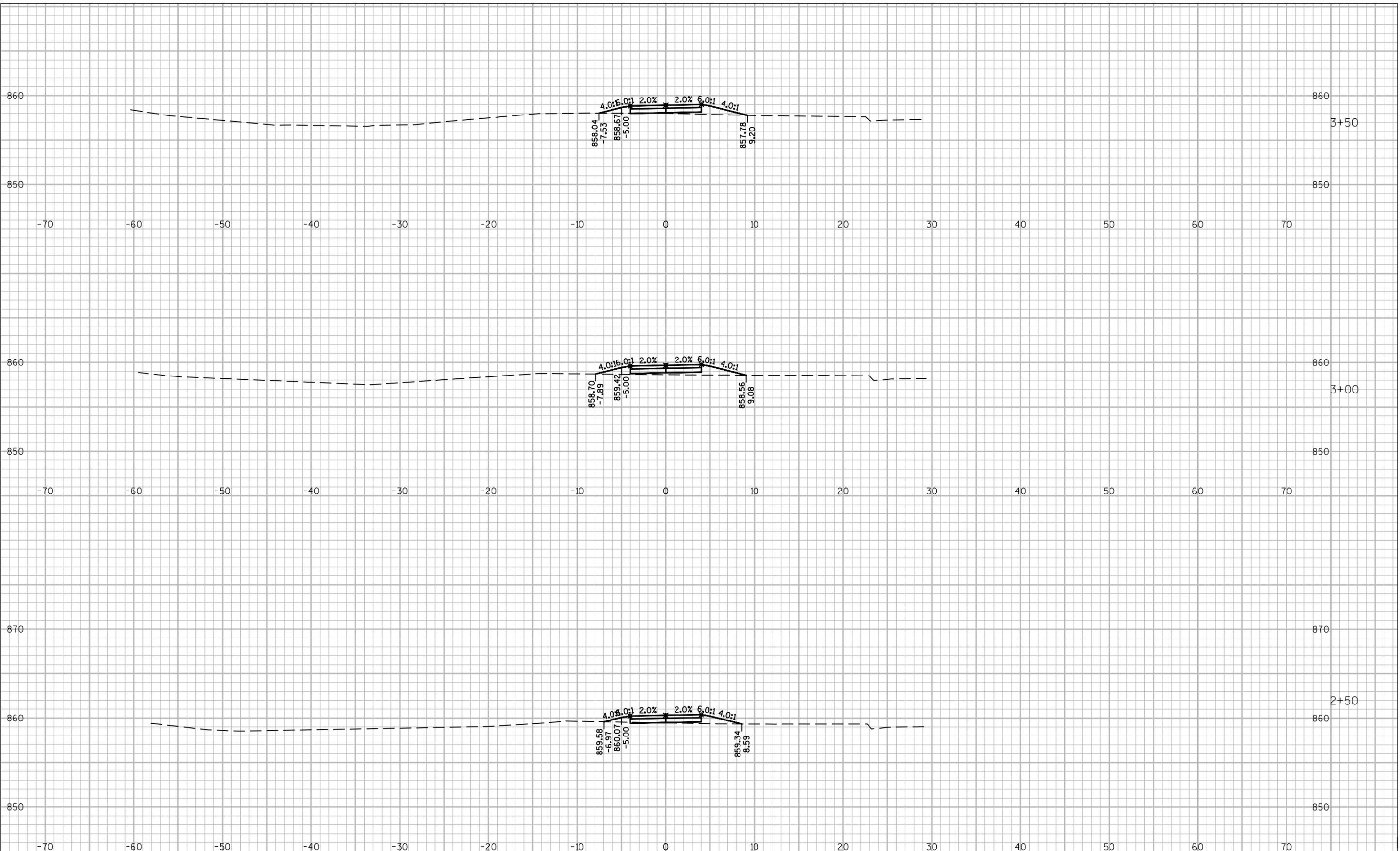
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 PLOT BY : NATHAN KEMPKRE
 SHEET SET : 5.00
 PLOT SCALE : 10:1



**STONEWALL CONNECTION TRAIL
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

CROSS SECTIONS			Date
Designer	Technician	Approval	11/19/15
NRK	TAL	SMC	Sheet Number

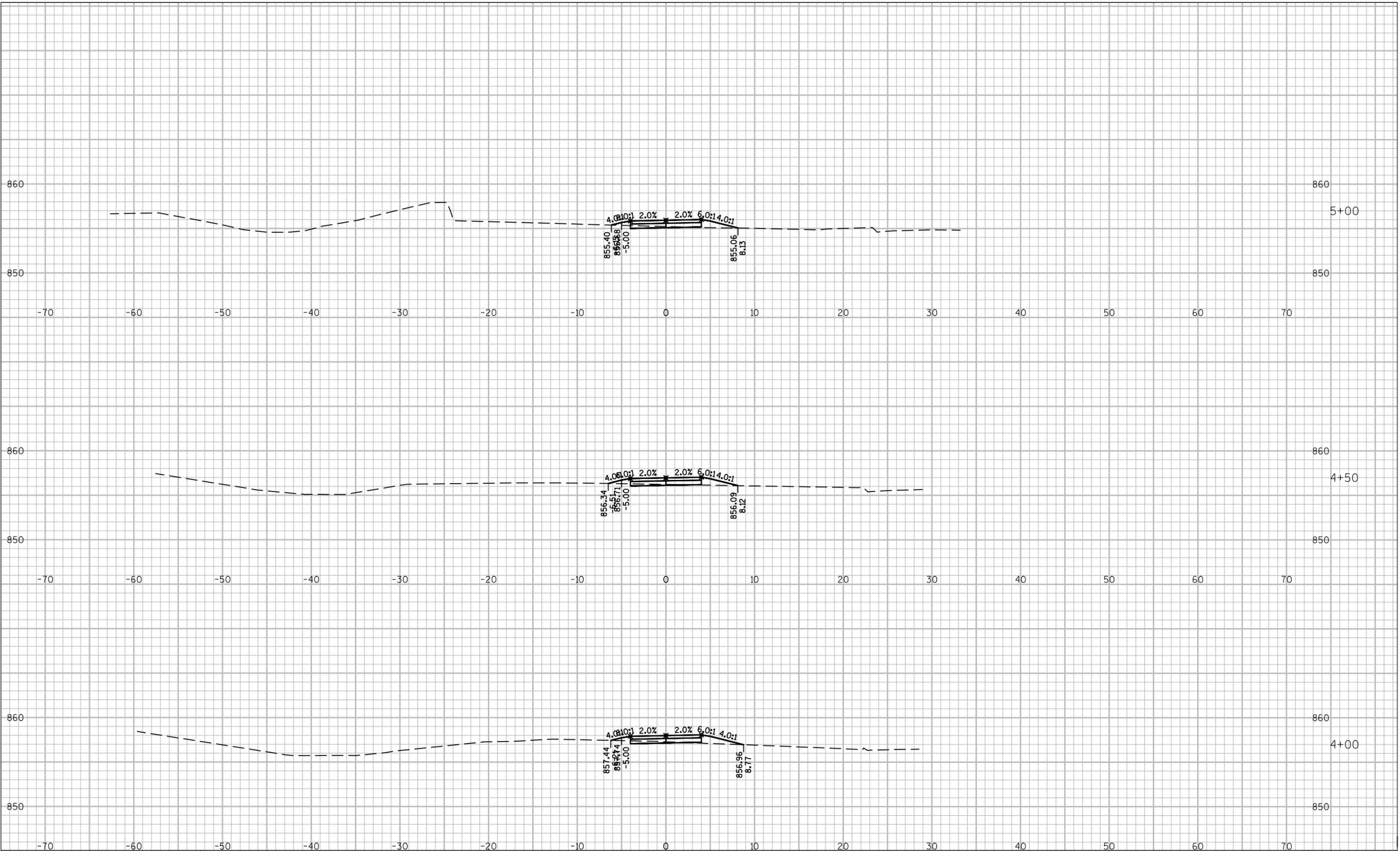
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 SHEET SET : 5.00
 PLOT SCALE : 10:1



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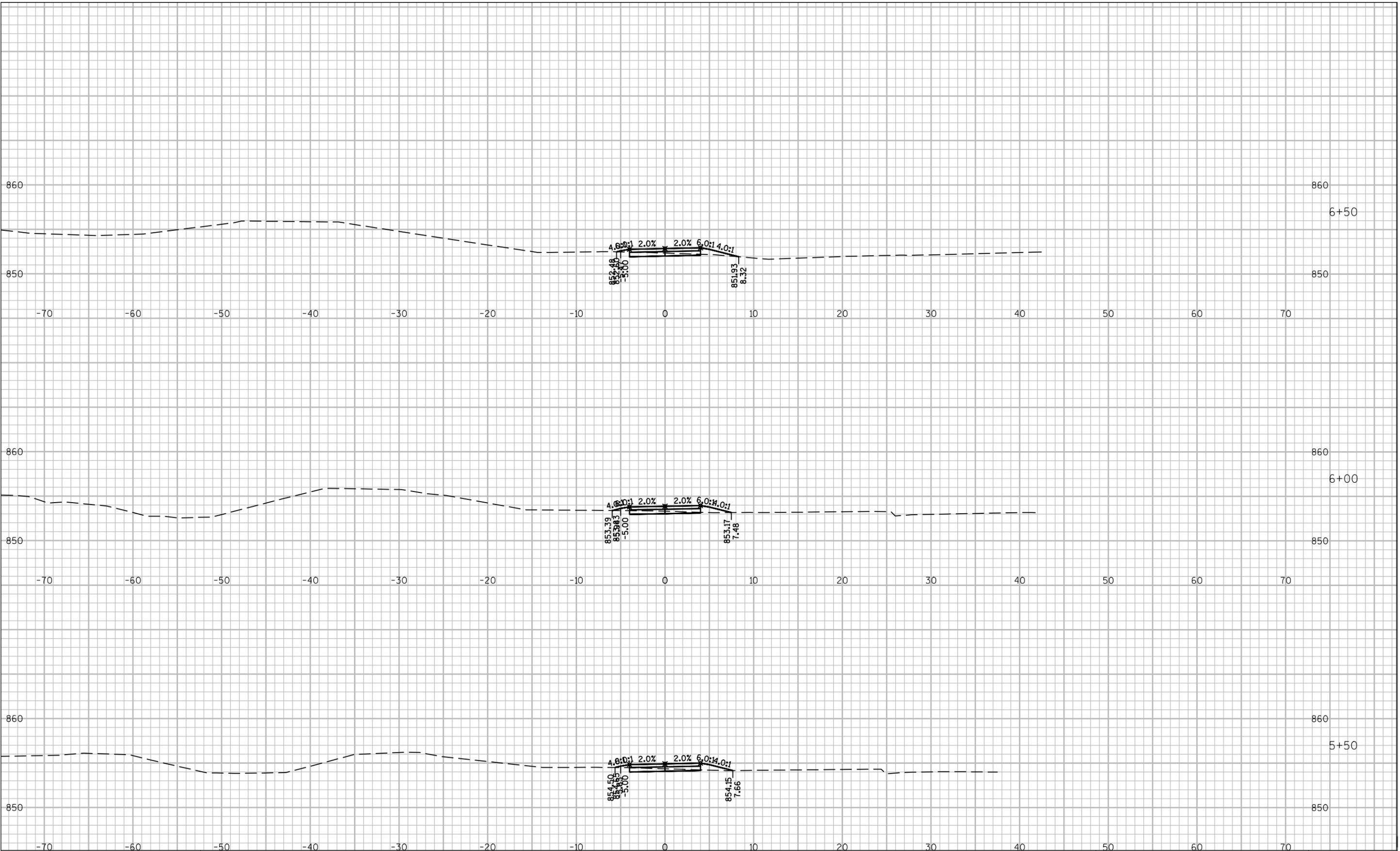
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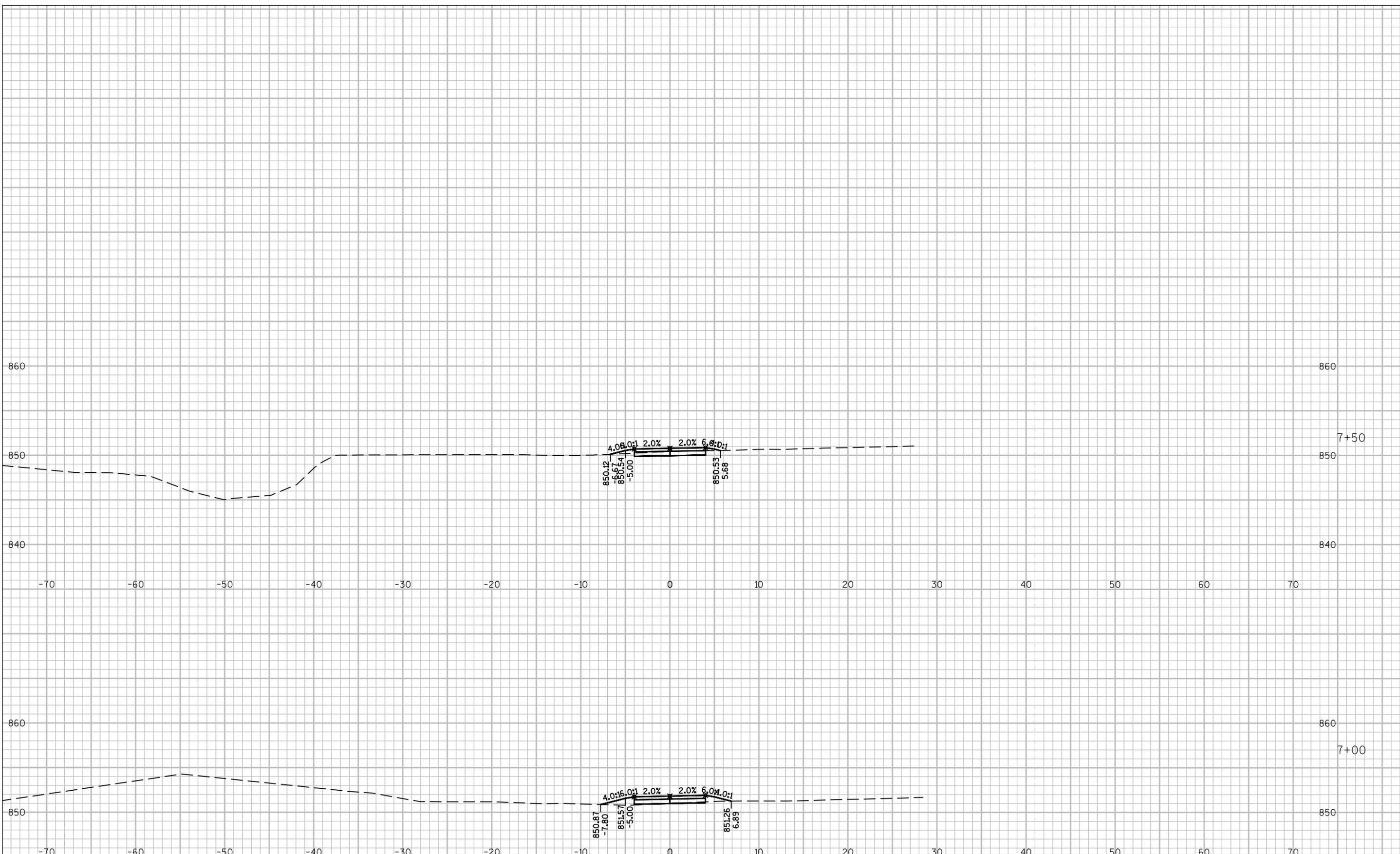
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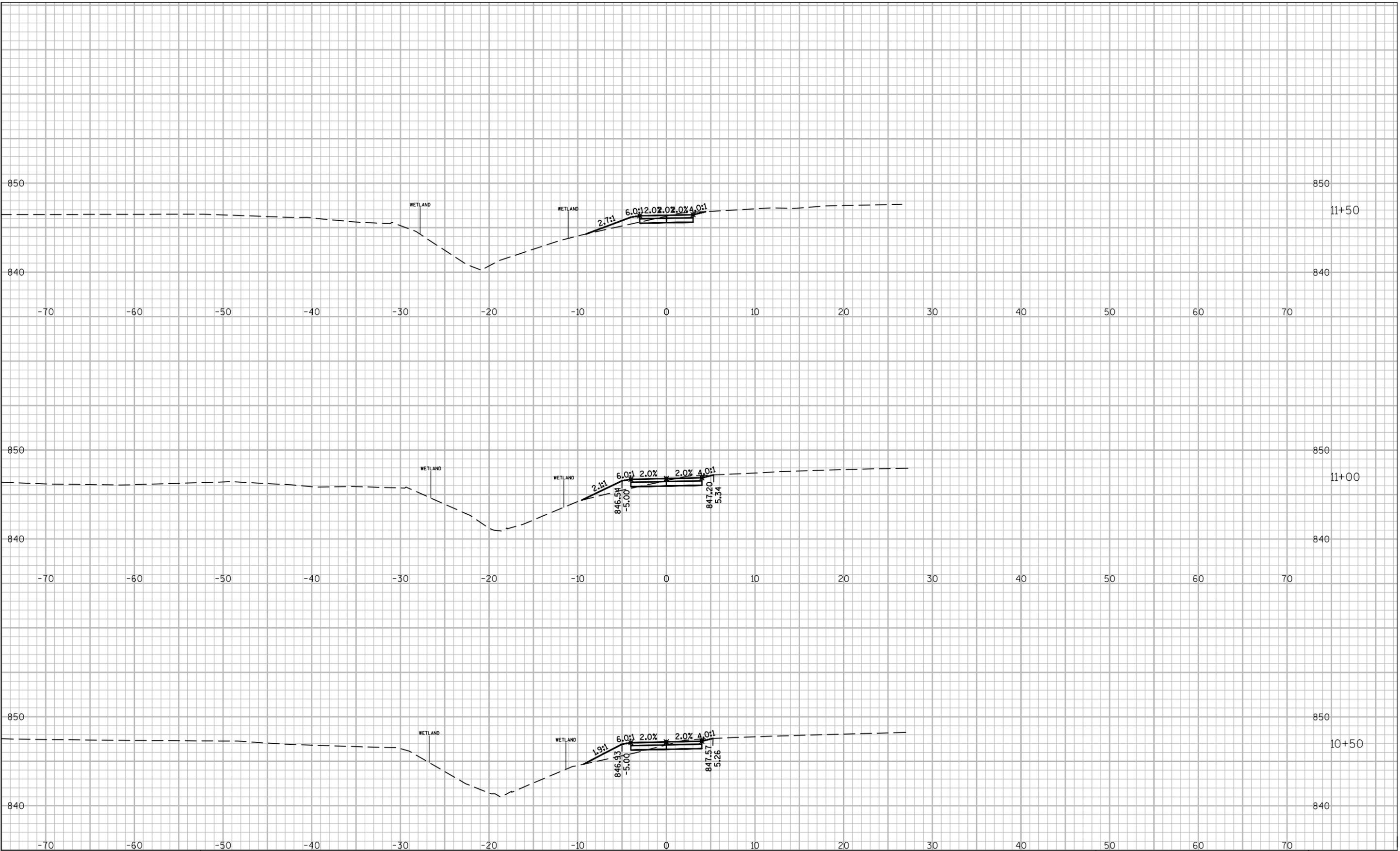


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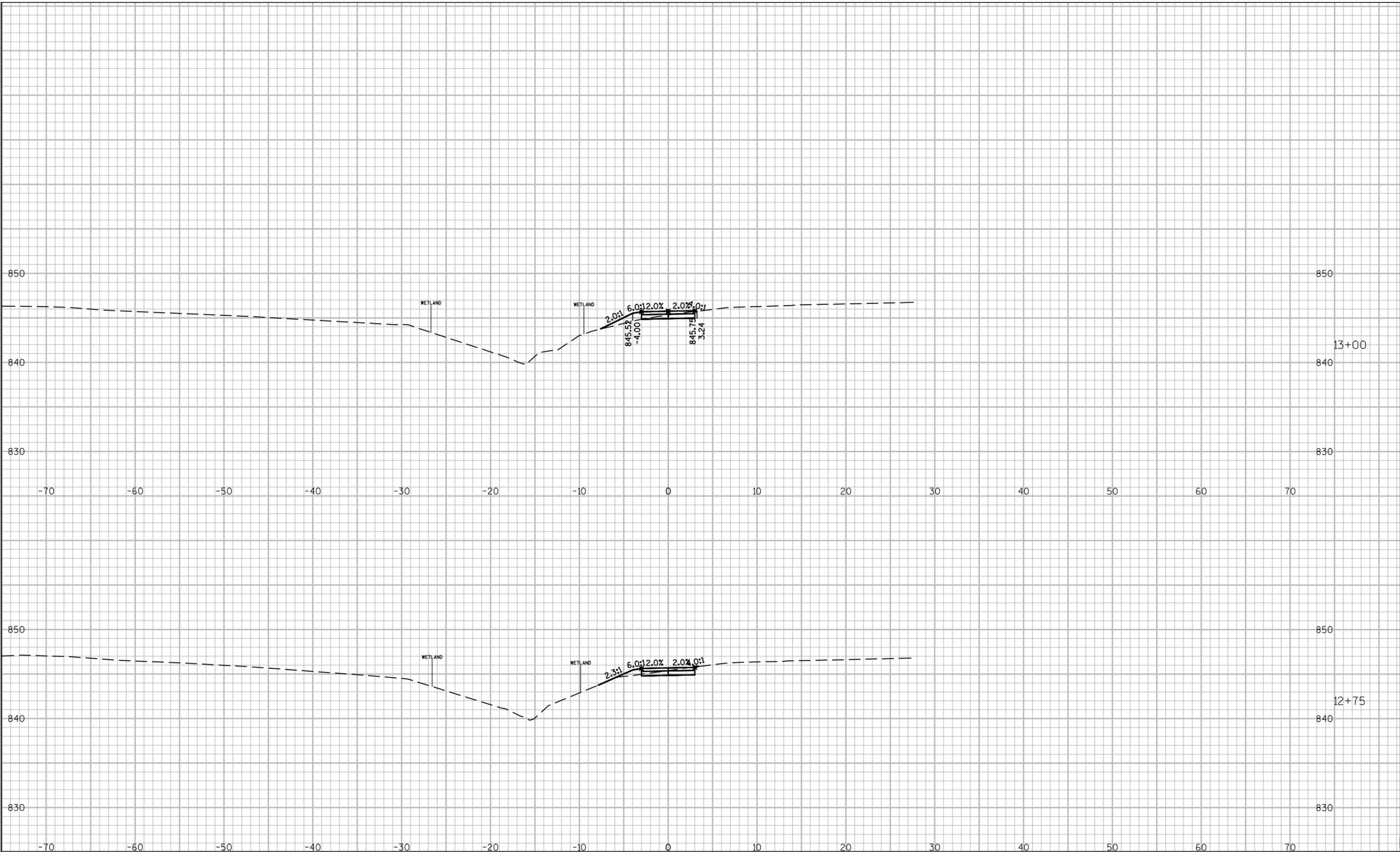
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 PLOT DATE : 11/4/14
 PLOT BY : NATHAN KEMPKRE
 SHEET SET : 5.00
 PLOT SCALE : 10:1



**STONEWALL CONNECTION TRAIL
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 VILLAGE OF JACKSON**

CROSS SECTIONS			Date
Designer	Technician	Approval	11/19/15
NRK	TAL	SMC	Sheet Number

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\C3d#Sheets\Plans\090201-x6.dwg
 PLOT DATE : 11/4/14
 PLOT BY : NATHAN KEMPKRE
 SHEET SET : 5.00
 PLOT SCALE : 10:1

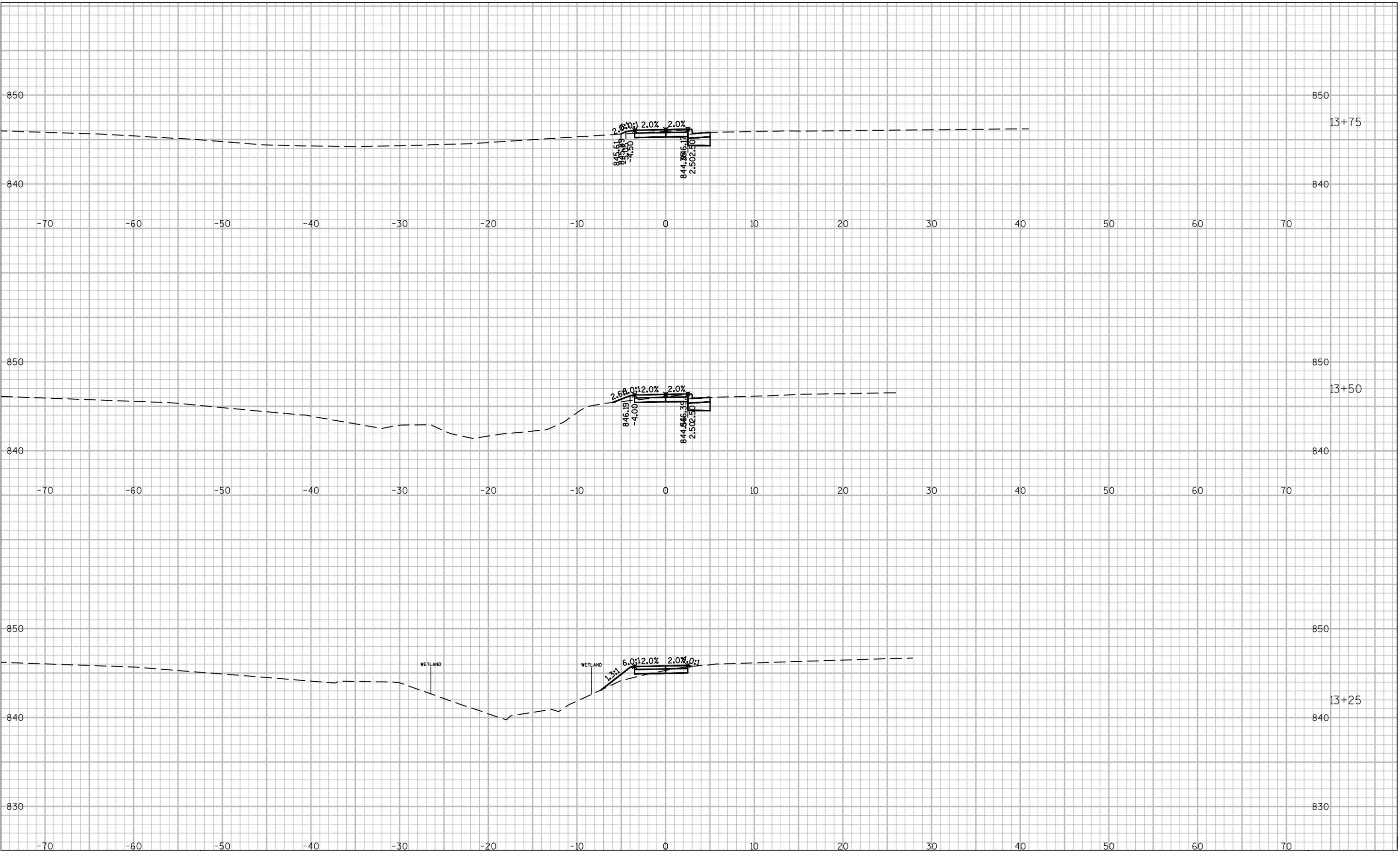


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CROSS SECTIONS			Date 11/19/15
Designer NRK	Technician TAL	Approval SMC	Sheet Number

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 PLOT DATE : 11/14/14
 PLOT BY : NATHAN KEMPKRE
 SHEET SET : 5.00
 PLOT SCALE : 10:1



**STONEWALL CONNECTION TRAIL
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

CROSS SECTIONS			Date 11/19/15
Designer NRK	Technician TAL	Approval SMC	Sheet Number

BILL OF SALE

The undersigned, **WEST SHORE PIPELINE COMPANY** (“Grantor”), for good and valuable consideration, the receipt and sufficiency of which Grantor hereby acknowledges, hereby sells, assigns, conveys, transfers and sets over unto **THE VILLAGE OF JACKSON**, a municipal corporation of the State of Wisconsin (“Grantee”), all of Grantor’s right, title and interest in and to the water distribution system extension more particularly described on **Exhibit A** attached hereto and incorporated herein (the “Project”), located in the Town of Jackson, County of Washington, State of Wisconsin.

The Project shall specifically exclude any water laterals conveyed to the landowners listed on **Exhibit B** attached hereto and incorporated herein, which water laterals have been conveyed to such landowners by separate bills of sale.

Except as expressly set forth in Article X of that certain Development Agreement (Village of Jackson – Water Distribution System) dated March 13, 2014 by and between Grantor and Grantee, Grantor makes no representations, warranties or covenants whatsoever with respect to the Project, and Grantee hereby accepts the Project in its “AS IS-WHERE IS” condition. GRANTEE FURTHER ACKNOWLEDGES AND AGREES THAT GRANTOR DOES NOT MAKE OR GIVE, AND SHALL NOT BE DEEMED TO HAVE MADE OR GIVEN, AND GRANTOR EXPRESSLY DISCLAIMS, ANY WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, AS TO THE CONDITION, MERCHANTABILITY, OR FITNESS FOR USE OR FOR ANY PURPOSE OF ALL OR ANY PART OF THE PROJECT.

Date: _____, 2015

GRANTOR:

WEST SHORE PIPELINE COMPANY

By: _____

Name: _____

Title: _____

EXHIBIT A

Description of the Project

See attached

EXHIBIT B

List of Landowners

See attached

QUIT CLAIM BILL OF SALE

The undersigned, **WEST SHORE PIPELINE COMPANY** (“Grantor”), for good and valuable consideration, the receipt and sufficiency of which Grantor hereby acknowledges, hereby sells, assigns, conveys, transfers and sets over unto [**LANDOWNER**] (“Grantee”), all of Grantor’s right, title and interest, if any, in and to the water laterals and related improvements constructed by Grantor (collectively, the “**Water Facilities**”) located in or upon the following described real property situated in the Town of Jackson, County of Washington, State of Wisconsin:

See **EXHIBIT A** attached hereto and incorporated herein by this reference.

Grantor makes no representations, warranties or covenants whatsoever with respect to the Water Facilities, and Grantee hereby accepts the Water Facilities in their “AS IS-WHERE IS” condition. GRANTEE FURTHER ACKNOWLEDGES AND AGREES THAT GRANTOR DOES NOT MAKE OR GIVE, AND SHALL NOT BE DEEMED TO HAVE MADE OR GIVEN, AND GRANTOR EXPRESSLY DISCLAIMS, ANY WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, AS TO THE CONDITION, MERCHANTABILITY, OR FITNESS FOR USE OR FOR ANY PURPOSE OF ALL OR ANY PART OF THE WATER FACILITIES.

Date: _____, 2015

GRANTOR:

WEST SHORE PIPELINE COMPANY

By: _____

Name: _____

Title: _____

EXHIBIT A

Address and/or Tax Parcel Identification Number

[See attached.]

PTS CONTRACTORS INC.

4075 EATON ROAD

GREEN BAY, WI 54311-9340

OFFICE (920) 468-5217

FAX (920) 468-4087

Oct. 1, 2015

Brian Kober
Village of Jackson
N168 W20733 Main Street
Jackson, Wisconsin 53037

Subject:
Village of Jackson Water Distribution System Extension
Certificate of Final Acceptance of Completed Work and Punch List Items

Dear Mr. Kober:

In our opinion, all of the Work and Punch List items under the above-referenced Contract have been completed and are ready for final acceptance by the Village of Jackson, Wisconsin (Village). If the Village has completed their final inspection and agrees that all the Work and Punch List items have been completed and are accepted, please sign below for the Village's final acceptance of this project and send this letter of certification for final acceptance to the attention of Mr. Dan Ownby of the West Shore Pipeline Company and those listed at the addresses noted below. It is our understanding that counsel for West Shore will be preparing and forwarding under separate cover the transfer documentation contemplated in the Development Agreement between West Shore and the Village.

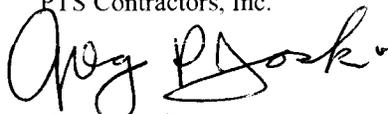
Should you have questions or comments, please contact the undersigned, at PTS Contractors, Inc., 920-468-5217 or email GJoski@PTSContractors.net

Sincerely,

Certification of Final Acceptance,

PTS Contractors, Inc.

Village of Jackson, Wisconsin



Greg P. Joski
President

Village's Authorized Representative

Copies:
Dan Ownby, West Shore Pipeline Company
One Greenway Plaza Suite 600, Houston, TX 77046

John M. Walther, Village Administrator, Village of Jackson
N168 W20733 Main St. P.O. Box 637, Jackson, WI 53037

John A. St. Peter, Edgerton, St. Peter, Petak & Rosenfeldt
10 Forest Ave. P. O Box 1276, Fond du Lac, WI 54936-1276

**ASSIGNMENT AND ASSUMPTION OF
EASEMENTS**

Document Number

[Empty box for document content]

Recording Area

Name and Return Address

Matthew K. Impola
Foley & Lardner LLP
777 E. Wisconsin Ave.
Milwaukee, WI 53202-5306

Parcel Identification Number (PIN)

[Empty box for parcel identification number]

ASSIGNMENT AND ASSUMPTION OF EASEMENTS

THIS ASSIGNMENT AND ASSUMPTION OF EASEMENTS (this “Assignment”) is made and effective as of _____, 2015, by and between WEST SHORE PIPE LINE COMPANY, a foreign corporation registered to transact business in the State of Wisconsin (“Assignor”), and THE VILLAGE OF JACKSON, a municipal corporation of the State of Wisconsin (“Assignee”).

WITNESSETH:

WHEREAS, Assignor and Assignee are parties to a Development Agreement (Village of Jackson – Water Distribution System Extension) dated as of March 13, 2014 (the “Development Agreement”); and

WHEREAS, pursuant to the Development Agreement, among other matters, Assignor agreed to assign to Assignee all easements, leases, licenses, permits, access agreements or other authorizations or occupancy agreements, if any (collectively, the “Easements”) reasonably necessary for the construction, use, operation and maintenance of the Project (as defined in the Development Agreement).

NOW, THEREFORE, for and in consideration of the mutual covenants, terms, and provisions of the Purchase Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, IT IS AGREED:

Section 1. ASSIGNMENT.

Section 1.1. Assignment. Assignor does hereby sell, transfer, set over, quitclaim and assign, unto Assignee, without warranty of any kind, all of Assignor’s right, title, and interest, if any, in, to, and under the Easements.

Section 1.2. Assumption. Assignee accepts the foregoing assignment and hereby assumes, and hereby covenants and agrees to fully and faithfully perform and discharge, each and every covenant, duty, obligation, liability, and term on the part of the grantee, licensee, or other recipient of rights under the Easements, arising or accruing on or after the date hereof.

Section 2. MISCELLANEOUS.

Section 2.1. Development Agreement. This Assignment is intended to give effect to certain of the transactions contemplated by the Development Agreement. This Assignment is made without representation or warranty except as provided in and by the Development Agreement.

Section 2.2. Successors and Assigns. This Assignment and the rights and liabilities contained herein shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

Section 2.3. Counterparts. This Assignment may be executed in multiple counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.

[Signature pages follow this page.]

IN WITNESS WHEREOF, the parties have executed and delivered this instrument as of the day, month, and year first above written.

Assignor:

WEST SHORE PIPE LINE COMPANY

By: _____

Name: _____

Its: _____

STATE OF _____)

) ss.

COUNTY OF _____)

This instrument was acknowledged before me on _____, 2015, by _____, as _____ of WEST SHORE PIPE LINE COMPANY.

[Notarial Seal]

Name printed: _____

Notary Public, State of _____

My commission expires: _____

Assignee:

THE VILLAGE OF JACKSON

By: _____

Name: _____

Its: _____

STATE OF WISCONSIN)

) ss.

COUNTY OF JACKSON)

This instrument was acknowledged before me on _____, 2015, by
_____, as _____ of THE VILLAGE OF
JACKSON.

[Notarial Seal]

Name printed: _____

Notary Public, State of _____

My commission expires: _____

This instrument drafted by

Matthew K. Impola
Foley & Lardner LLP
777 East Wisconsin Ave.
Milwaukee, Wisconsin 53202

November 17, 2015

W141579.00

Mr. Brian Kober, Director of Public Works
Village of Jackson
N168 W20733 Main Street
P.O. Box 637
Jackson, Wisconsin 53037

**Application for Payment No. 3
Georgetown Drive Improvements
Village of Jackson, Wisconsin**

Dear Brian:

Enclosed for your use in payment to Advance Construction Co., in the amount of \$147,684.66 is Application for Payment No. 3.

Following your review and approval, please complete the application for payment form within the areas reserved for the Owner and process payment to the Contractor accordingly.

Should you have any questions, please feel free to contact me at our Milwaukee Regional office.

Sincerely,

GAI Consultants, Inc.



Chris J. Walter, P.E.
Assistant Design Manager

Enc.: Application for Payment No. 2

cc: Paul Kultger, Advance Construction Co.

Contractor's Application For Payment No.

3(three)

Application Period: 9/23 thru 11/17/2015		Application Date: 11/17/2015	
To (Owner): Village of Jackson	From (Contractor): Advance Construction, Inc.	Via (Engineer):	GAI
Project: Georgetown Drive	Contract: Georgetown Drive Reconstruction		
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:	W141579.00

**Application for Payment
Change Order Summary**

Approved Change Orders		
Numbers	Additions	Deductions
TOTALS	\$0.00	\$0.00
NET CHANGE BY CHANGE ORDERS		

1. ORIGINAL CONTRACT PRICE	\$ 619,153.10
2. Net change by Change Orders	\$
3. CURRENT CONTRACT PRICE (Line 1± 2)	\$ 619,153.10
4. TOTAL COMPLETED AND STORED TO DATE (Column G on Progress Estimate)	\$ 599,828.29
5. RETAINAGE:	
a. 5 % x 309,576.55 Work Completed	\$ 15,478.83
b. % x Stored Material	\$ 0.00
c. Total Retainage (Line 5a + 5b)	\$ 15,478.83
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line5c)	\$ 584,349.46
7. LESS PREVIOUS PAYMENTS (line 6 from prior Application)	\$ 436,664.80
8. AMOUNT DUE THIS APPLICATION	\$ 147,684.66
9. BALANCE TO FINISH, PLUS RETAINAGE (Column G on Progress Estimate + Line 5 above)	\$ 34,803.64

Contractor's Certification

The undersigned Contractors certifies that: (1) all previous progress payments received from Owner on account of Work done under the contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear off all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By: *[Signature]* Date: 11-18-2015

Payment of: \$ 147,684.66
(Line 8 or other - attach explanation of the other amount)

is recommended by: *[Signature]* 11/17/15
(Engineer) (Date)

Payment of: \$ _____
(Line 8 or other - attach explanation of other amount)

is approved by: _____
(Owner) (Date)

Approved by: _____
Funding Agency (if applicable) (Date)

Progress Estimate

Contractor's Application

For (contract):							Application Number:				
Village of Jackson - Georgetown Drive Reconstruction							3(three)				
Application Period							Application Date:				
September 23, 2015 - November 17, 2015							11/17/2015				
A				B	C	D	E	F			
Bid Item No.	Item Description	Bid Quantity		Unit Price	Bid Value	Estimated Quantity Installed	Value	Materials Presently Stored (not in C)	Total Completed and Stored to date (D + E)	% (F + B)	Balance to Finish (B - F)
Section A - Sanitary Sewer											
1	8" sanitary sewer relay	725.00	lf	114.00	82,650.00	762.30	86,902.20		86,902.20	105%	-4,252.20
2	48" diameter sanitary manhole	38.00	vf	250.00	9,500.00	37.62	9,405.00		9,405.00	99%	95.00
3	6" sanitary sewer lateral	143.00	lf	85.00	12,155.00	42.00	3,570.00		3,570.00	29%	8,585.00
Section B - Water main											
4	8" water main relay	748.00	lf	89.25	66,759.00	755.50	67,428.38		67,428.38	101%	-669.38
5	8" gate valve	3.00	ea	1,591.00	4,773.00	3.00	4,773.00		4,773.00	100%	0.00
6	6" water main relay	14.00	lf	89.25	1,249.50	19.50	1,740.38		1,740.38	139%	-490.88
7	6" gate valve	1.00	ea	1,016.00	1,016.00	1.00	1,016.00		1,016.00	100%	0.00
8	Hydrant assembly	3.00	ea	6,290.00	18,870.00	3.00	18,870.00		18,870.00	100%	0.00
9	1 1/4" water ervice	136.00	lf	36.00	4,896.00	81.50	2,934.00		2,934.00	60%	1,962.00
10	1 1/4" water service fittings	4.00	ea	522.50	2,090.00	2.00	1,045.00		1,045.00	50%	1,045.00
Section C - Storm Sewer											
11	36" HDPE Storm Sewer	117.00	lf	117.00	13,689.00	95.00	11,115.00		11,115.00	81%	2,574.00
12	30" HDPE Storm Sewer	300.00	lf	104.00	31,200.00	294.50	30,628.00		30,628.00	98%	572.00
13	15" HDPE Storm Sewer	10.00	lf	64.50	645.00	10.00	645.00		645.00	100%	0.00
14	12" HDPE Storm Sewer	224.00	lf	52.50	11,760.00	230.50	12,101.25		12,101.25	103%	-341.25
15	19x30 CL HE-V RCP storm sewer	646.00	lf	120.00	77,520.00	680.00	81,600.00		81,600.00	105%	-4,080.00
16	19x30 CL HE-V RCP - 15 degree mitered pipe	2.00	ea	2,300.00	4,600.00	2.00	4,600.00		4,600.00	100%	0.00
17	6" pvc storm sewer lateral	314.00	lf	34.00	10,676.00	273.00	9,282.00		9,282.00	87%	1,394.00
18	60" storm manhole(2units)	14.20	vf	540.00	7,668.00	9.93	5,362.20		5,362.20	70%	2,305.80
19	72" storm manhole(1unit)	4.50	vf	707.40	3,183.30	8.62	6,097.79		6,097.79	192%	-2,914.49



PROJECT NO: W141579.00
 PROJECT ID: Georgetown Drive Reconstruction
 CLIENT: Village of Jackson
 CONTRACTOR: Advance Construction Co.

ESTIMATED QUANTITIES

Item	Unit Price	ORIGINAL Estimated Quantity	ORIGINAL Schedule of Values
1	8" Sanitary Sewer Relay	\$ 114.00	725 \$ 82,650.00
2	48" Sanitary Manhole (3 units)	\$ 250.00	38 \$ 9,500.00
3	6" Sanitary Sewer Lateral (5 units)	\$ 85.00	143 \$ 12,155.00
4	8" Water Main Relay	\$ 89.25	748 \$ 66,759.00
5	8" Gate Valve	\$ 1,591.00	3 \$ 4,773.00
6	6" Water Main Relay	\$ 89.25	14 \$ 1,249.50
7	6" Gate Valve	\$ 1,016.00	1 \$ 1,016.00
8	Hydrant Assembly	\$ 6,290.00	3 \$ 18,870.00
9	1-1/4" Water Service (4 units)	\$ 36.00	136 \$ 4,896.00
10	1-1/4" Water Service Fittings	\$ 522.50	4 \$ 2,090.00
11	36" HDPE Storm Sewer	\$ 117.00	117 \$ 13,689.00
12	30" HDPE Storm Sewer	\$ 104.00	300 \$ 31,200.00
13	15" HDPE Storm Sewer	\$ 64.50	10 \$ 645.00
14	12" HDPE Storm Sewer	\$ 52.50	224 \$ 11,760.00
15	19"X30" CL HE-III RCP	\$ 120.00	646 \$ 77,520.00
16	19"X30" CL HE-III RCP	\$ 2,300.00	2 \$ 4,600.00
17	6" PVC Storm Sewer Lateral (10 units)	\$ 34.00	314 \$ 10,676.00
18	60" Storm Manhole (3 units)	\$ 540.00	14.2 \$ 7,668.00
19	72" Storm Manhole (1 unit)	\$ 707.40	4.5 \$ 3,183.30
20	120" Storm Manhole (4 units)	\$ 1,776.00	16.8 \$ 29,836.80
21	Standard Catch Basin	\$ 2,247.00	11 \$ 24,717.00
22	Common Excavation	\$ 21,000.00	1 \$ 21,000.00
23	Pavement Removal	\$ 3.50	3000 \$ 10,500.00
24	Excavation Below Subgrade (Estimated)	\$ 6.00	200 \$ 1,200.00
25	Granular Backfill (3") for EBS (Estimated)	\$ 14.00	400 \$ 5,600.00
26	30" Concrete Curb and Gutter	\$ 13.00	1520 \$ 19,760.00
27	7" Concrete Sidewalk	\$ 3.50	1100 \$ 3,850.00
28	5" Concrete Sidewalk	\$ 5.00	6100 \$ 30,500.00
29	7" Concrete Driveway	\$ 54.90	115 \$ 6,313.50
30	Base Aggregate Dense	\$ 11.00	2200 \$ 24,200.00
31	Asphaltic Concrete Pavement	\$ 64.81	950 \$ 61,569.50
32	Sawcutting	\$ 2.00	260 \$ 520.00
33	Lawn Restoration	\$ 6.50	800 \$ 5,200.00
34	Adjust Storm Manhole	\$ 500.00	2 \$ 1,000.00
35	Adjust Sanitary Manhole	\$ 500.00	3 \$ 1,500.00
36	Traffic Control	\$ 7,000.00	1 \$ 7,000.00
TOTAL - Items thru , Inclusive,.....			\$ 619,166.60
CHANGE ORDER ITEMS (& Supplemental Items by Change Order):			
CO1			\$ -
1	2" Water Service Fittings	\$ 605.25	3 \$ 1,815.75
2	2" Water Service	\$ 37.00	72 \$ 2,645.50
3	Fix Unmarked Services	\$ 2,281.18	1 \$ 2,281.18
4	Install 6" Valve	\$ 150.00	1 \$ 150.00
		Total=	\$ 6,892.43
Project TOTALS =			\$ 626,059.03

Application For Payment No. 1					Application For Payment No. 2					Application For Payment No. 3				
QUANTITIES	VALUES	QUANTITIES	VALUES	\$	QUANTITIES	VALUES	QUANTITIES	VALUES	\$	QUANTITIES	VALUES	QUANTITIES	VALUES	\$
Submitted This Application	Submitted This Application	Submitted TO DATE	Submitted TO DATE	% of Est.	Submitted This Application	Submitted This Application	Submitted TO DATE	Submitted TO DATE	% of Est.	Submitted This Application	Submitted This Application	Submitted TO DATE	Submitted TO DATE	% of Est.
337.00	\$ 38,418.00	337.00	\$ 38,418.00	46.48%	425.30	\$ 48,484.20	762.30	\$ 86,902.20	105.14%	0.00	\$ -	762.30	\$ 86,902.20	105.14%
12.20	\$ 3,050.00	12.20	\$ 3,050.00	32.11%	25.42	\$ 6,355.00	37.62	\$ 9,405.00	99.00%	0.00	\$ -	37.62	\$ 9,405.00	99.00%
0.00	\$ -	0.00	\$ -	0.00%	42.00	\$ 3,570.00	42.00	\$ 3,570.00	29.37%	0.00	\$ -	42.00	\$ 3,570.00	29.37%
100.00	\$ 8,925.00	100.00	\$ 8,925.00	13.37%	655.50	\$ 58,503.38	755.50	\$ 67,428.38	101.00%	0.00	\$ -	755.50	\$ 67,428.38	101.00%
0.00	\$ -	0.00	\$ -	0.00%	3.00	\$ 4,773.00	3.00	\$ 4,773.00	100.00%	0.00	\$ -	3.00	\$ 4,773.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	19.50	\$ 1,740.38	19.50	\$ 1,740.38	139.29%	0.00	\$ -	19.50	\$ 1,740.38	139.29%
0.00	\$ -	0.00	\$ -	0.00%	1.00	\$ 1,016.00	1.00	\$ 1,016.00	100.00%	0.00	\$ -	1.00	\$ 1,016.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	3.00	\$ 18,870.00	3.00	\$ 18,870.00	100.00%	0.00	\$ -	3.00	\$ 18,870.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	81.50	\$ 2,934.00	81.50	\$ 2,934.00	59.93%	0.00	\$ -	81.50	\$ 2,934.00	59.93%
0.00	\$ -	0.00	\$ -	0.00%	2.00	\$ 1,045.00	2.00	\$ 1,045.00	50.00%	0.00	\$ -	2.00	\$ 1,045.00	50.00%
95.00	\$ 11,115.00	95.00	\$ 11,115.00	81.20%	0.00	\$ -	95.00	\$ 11,115.00	81.20%	0.00	\$ -	95.00	\$ 11,115.00	81.20%
15.50	\$ 1,612.00	15.50	\$ 1,612.00	5.17%	279.00	\$ 29,016.00	294.50	\$ 30,628.00	98.17%	0.00	\$ -	294.50	\$ 30,628.00	98.17%
0.00	\$ -	0.00	\$ -	0.00%	10.00	\$ 645.00	10.00	\$ 645.00	100.00%	0.00	\$ -	10.00	\$ 645.00	100.00%
146.00	\$ 7,665.00	146.00	\$ 7,665.00	65.18%	84.50	\$ 4,436.25	230.50	\$ 12,101.25	102.90%	0.00	\$ -	230.50	\$ 12,101.25	102.90%
680.00	\$ 81,600.00	680.00	\$ 81,600.00	105.26%	0.00	\$ -	680.00	\$ 81,600.00	105.26%	0.00	\$ -	680.00	\$ 81,600.00	105.26%
2.00	\$ 4,600.00	2.00	\$ 4,600.00	100.00%	0.00	\$ -	2.00	\$ 4,600.00	100.00%	0.00	\$ -	2.00	\$ 4,600.00	100.00%
66.00	\$ 2,244.00	66.00	\$ 2,244.00	21.02%	67.50	\$ 2,295.00	133.50	\$ 4,539.00	42.52%	139.50	\$ 4,743.00	273.00	\$ 9,282.00	86.94%
0.00	\$ -	0.00	\$ -	0.00%	9.93	\$ 5,362.20	9.93	\$ 5,362.20	69.93%	0.00	\$ -	9.93	\$ 5,362.20	69.93%
4.27	\$ 3,020.60	4.27	\$ 3,020.60	94.89%	4.35	\$ 3,077.19	8.62	\$ 6,097.79	191.56%	0.00	\$ -	8.62	\$ 6,097.79	191.56%
16.29	\$ 28,931.04	16.29	\$ 28,931.04	96.96%	-3.67	\$ (6,517.92)	12.62	\$ 22,413.12	75.12%	0.00	\$ -	12.62	\$ 22,413.12	75.12%
6.00	\$ 13,482.00	6.00	\$ 13,482.00	54.55%	5.00	\$ 11,235.00	11.00	\$ 24,717.00	100.00%	0.00	\$ -	11.00	\$ 24,717.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	1.00	\$ 21,000.00	1.00	\$ 21,000.00	100.00%	0.00	\$ -	1.00	\$ 21,000.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	3000.00	\$ 10,500.00	3000.00	\$ 10,500.00	100.00%	-8.60	\$ (30.10)	2991.40	\$ 10,469.90	99.71%
0.00	\$ -	0.00	\$ -	0.00%	32.70	\$ 196.20	32.70	\$ 196.20	16.35%	0.00	\$ -	32.70	\$ 196.20	16.35%
0.00	\$ -	0.00	\$ -	0.00%	46.50	\$ 651.00	46.50	\$ 651.00	11.63%	0.00	\$ -	46.50	\$ 651.00	11.63%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	1555.30	\$ 20,218.90	1555.30	\$ 20,218.90	102.32%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	849.00	\$ 2,971.50	849.00	\$ 2,971.50	77.18%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	6035.00	\$ 30,175.00	6035.00	\$ 30,175.00	98.93%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	173.50	\$ 9,525.15	173.50	\$ 9,525.15	150.87%
0.00	\$ -	0.00	\$ -	0.00%	1344.92	\$ 14,794.12	1344.92	\$ 14,794.12	61.13%	517.30	\$ 5,690.30	1862.22	\$ 20,484.42	84.65%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	802.98	\$ 52,041.13	802.98	\$ 52,041.13	84.52%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	260.00	\$ 520.00	260.00	\$ 520.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	1351.90	\$ 8,787.35	1351.90	\$ 8,787.35	168.99%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	2.00	\$ 1,000.00	2.00	\$ 1,000.00	100.00%
0.00	\$ -	0.00	\$ -	0.00%	0.00	\$ -	0.00	\$ -	0.00%	3.00	\$ 1,500.00	3.00	\$ 1,500.00	100.00%
0.50	\$ 3,500.00	0.50	\$ 3,500.00	50.00%	0.00	\$ -	0.50	\$ 3,500.00	50.00%	0.50	\$ 3,500.00	1.00	\$ 7,000.00	100.00%
TOTAL - Items thru , Inclusive,.....	\$ 208,162.64	\$ 208,162.64	\$ 208,162.64	33.62%	\$ 243,980.99	\$ 452,143.63	\$ 452,143.63	\$ 452,143.63	73.02%	\$ 140,642.23	\$ 592,785.86	\$ 592,785.86	\$ 592,785.86	95.74%
CHANGE ORDER ITEMS (& Supplemental Items by Change Order):														
CO1														
3.0	\$ 1,815.75	3.0	\$ 1,815.75							3.0	\$ 1,815.75	3.0	\$ 1,815.75	
71.5	\$ 2,645.50	71.5	\$ 2,645.50							71.5	\$ 2,645.50	71.5	\$ 2,645.50	
1.0	\$ 2,281.18	1.0	\$ 2,281.18							1.0	\$ 2,281.18	1.0	\$ 2,281.18	
1.0	\$ 150.00	1.0	\$ 150.00							1.0	\$ 150.00	1.0	\$ 150.00	
		Total=	\$ 6,892.43							Total =	\$ 6,892.43	Total =	\$ 6,892.43	
Project TOTALS =			\$ 626,059.03		\$ 208,162.64	\$ 208,162.64	\$ 208,162.64	\$ 208,162.64	33.52%	\$ 243,980.99	\$ 452,143.63	\$ 452,143.63	\$ 452,143.63	73.02%

November 20, 2015

Village of Jackson
N168 W20733 Main Street
Jackson, WI 53037

Attention: Brian Kober, P.E.
Director of Public Works

Subject: Project I.D. 150513
Jackson Drive Sidewalk
Cranberry Creek Lane – STH 60
Estimate #2

Dear Mr. Kober:

Enclosed you will find Pay Estimate # for the Jackson Drive Sidewalk project in the Village of Jackson. The total amount due to the contractor has been reduced by five percent (5%) for retainage.

Work completed, Estimate #2	= \$41,395.03
Retainage, Estimate #2 (5%)	= 2,069.75
Amount due to Contractor, Estimate #2	= \$39,325.28

If you have any questions or comments, please contact me at (920) 924-5720.

Sincerely,



Eric Stobb
Gremmer & Associates, Inc.

**Village of Jackson - Jackson Drive Sidewalk
DC Burbach - Prime Contractor**

Item No.	Description	Units	TOTAL	Unit Price	Bid Total	Estimate #1		Estimate #2		Estimate #3		Estimate #4		Estimate #5		Cumulative Totals		
						Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	
1	Clearing and Grubbing	LS	1	\$1,500.00	\$1,500.00	0.5	\$750.00	0.5	\$750.00		\$0.00		\$0.00		\$0.00	1.0	\$1,500.00	
2	Removing Curb & Gutter	LF	70	\$7.20	\$504.00	106.0	\$763.20	0.0	\$0.00		\$0.00		\$0.00		\$0.00	106.0	\$763.20	
3	Removing Concrete	SY	110	\$7.20	\$792.00	189.0	\$1,360.80	0.0	\$0.00		\$0.00		\$0.00		\$0.00	189.0	\$1,360.80	
4	Excavation Common **P**	CY	271	\$29.85	\$8,089.35	271.0	\$8,089.35	0.0	\$0.00		\$0.00		\$0.00		\$0.00	271.0	\$8,089.35	
5	Base Aggregate Dense 3/4-Inch	TON	500	\$17.65	\$8,825.00	280.1	\$4,943.77	133.0	\$2,347.45		\$0.00		\$0.00		\$0.00	413.1	\$7,291.22	
6	Concrete Driveway 6-Inch	SY	290	\$42.25	\$12,252.50	53.5	\$2,260.38	271.8	\$11,482.28		\$0.00		\$0.00		\$0.00	325.3	\$13,742.66	
7	Asphaltic Surface Driveways and Field Entrances	TON	15	\$275.00	\$4,125.00	0.0	\$0.00	14.5	\$3,987.50		\$0.00		\$0.00		\$0.00	14.5	\$3,987.50	
8	Concrete Curb & Gutter, 24-Inch Type D	LF	70	\$32.10	\$2,247.00	76.0	\$2,439.60	30.0	\$963.00		\$0.00		\$0.00		\$0.00	106.0	\$3,402.60	
9	Concrete Sidewalk 4-Inch	SF	9400	\$3.35	\$31,490.00	8124.6	\$27,217.41	780.0	\$2,613.00		\$0.00		\$0.00		\$0.00	8,904.6	\$29,830.41	
10	Concrete Sidewalk 6-Inch	SF	380	\$4.30	\$1,634.00	121.0	\$520.30	0.0	\$0.00		\$0.00		\$0.00		\$0.00	121.0	\$520.30	
11	Curb Ramp Detectable Warning Field Yellow	SF	24	\$50.00	\$1,200.00	0.0	\$0.00	0.0	\$0.00		\$0.00		\$0.00		\$0.00	0.0	\$0.00	
12	Topsoil, Seed Mix 40, Fertilizer Type B and Erosion Mat Urban Class I Type A	SY	2400	\$6.40	\$15,360.00	0.0	\$0.00	1,762.0	\$11,276.80		\$0.00		\$0.00		\$0.00	1,762.0	\$11,276.80	
13	Inlet Protection Type C	EACH	10	\$75.00	\$750.00	9.0	\$675.00	0.0	\$0.00		\$0.00		\$0.00		\$0.00	9.0	\$675.00	
14	Traffic Control	LS	1	\$4,150.00	\$4,150.00	0.5	\$2,075.00	0.5	\$2,075.00		\$0.00		\$0.00		\$0.00	1.0	\$4,150.00	
15	Sawing Asphalt	LF	135	\$2.50	\$337.50	140.5	\$351.25	0.0	\$0.00		\$0.00		\$0.00		\$0.00	140.5	\$351.25	
16	Sawing Concrete	LF	56	\$4.00	\$224.00	12.0	\$48.00	0.0	\$0.00		\$0.00		\$0.00		\$0.00	12.0	\$48.00	
17	Sawing Curb Head	LF	20	\$30.00	\$600.00	10.0	\$300.00	0.0	\$0.00		\$0.00		\$0.00		\$0.00	10.0	\$300.00	
18	Adjusting Sanitary Sewer Manhole	EACH	1	\$1,200.00	\$1,200.00	1.0	\$1,200.00	0.0	\$0.00		\$0.00		\$0.00		\$0.00	1.0	\$1,200.00	
	Extra: Remove Loading Dock at Ray's Automotive as Authorized	LS	1	\$1,500.00	\$1,500.00	1.0	\$1,500.00		\$0.00		\$0.00		\$0.00		\$0.00	1.0	\$1,500.00	
	Extra: Option #5 - Remove & Replace Asphalt on Jackson Drive per DC Burbach proposal	LS	1	\$5,900.00	\$5,900.00	0.0	\$0.00	1.0	\$5,900.00		\$0.00		\$0.00		\$0.00	1.0	\$5,900.00	
					SUBTOTAL	\$102,680.35		\$54,494.05		\$41,395.03		\$0.00		\$0.00		\$0.00		\$95,889.08



Work completed, previous estimates	\$54,494.05
Work completed, this estimate	\$41,395.03
Total work completed	\$ 95,889.08
Retainage, this estimate	\$ 2,069.75
Retainage, total all estimates	\$ 4,794.45
Amount due to contractor, this estimate	\$ 39,325.28

Jackson Truck Body Inc.

N168 W20640 Main St
Jackson WI. 53037

262-677-3133 Fax 262-677-4675

QUOTE

DATE	ESTIMATE #
11/17/2015	56515

Village of Jackson
N168 W20733 Main St.
PO Box 637
Jackson Wi. 53037

P.O. NO.	TERMS	FOB	SALES PEOPLE
	Due on receipt	Jackson Wi.	Jeff

QTY	ITEM	DESCRIPTION	TOTAL
1	short single	cost to shorten truck frame hydraulic brakes, drive shaft shortened and balanced slide the axle forward to fit the tank	1,650.00T
1	miss	build new fenders on the truck Steel 12 gauge fenders with new supports to the frame	600.00T
1	miss	install new strobe light and wiring to the strobe light new lighted switch installed in the cab	365.00T
1	miss	remove the existing platform and underbody cabinets from the new chassis	530.00T
1	hot shift Allis...	Power take off to fit transmission Hot shift installed on your truck	1,740.00T

TOTAL

SIGNATURE

Jackson Truck Body Inc.

N168 W20640 Main St
Jackson WI. 53037

262-677-3133 Fax 262-677-4675

QUOTE

DATE	ESTIMATE #
11/17/2015	56515

Village of Jackson
N168 W20733 Main St.
PO Box 637
Jackson Wi. 53037

P.O. NO.	TERMS	FOB	SALES PEOPLE
	Due on receipt	Jackson Wi.	Jeff

QTY	ITEM	DESCRIPTION	TOTAL
1	miss	cost to transfer the complete tank and pump onto the new chassis replace/repair the broken mount springs and mount brackets remount the tail lights install a new ICC step on the back of the unit	2,150.00 ^T
		Sales Tax	0.00
		<i>TRADE-IN EXISTING FLAT BED</i>	<i>-1,500⁰⁰</i>
		<i>TOTAL</i>	<i>\$ 5,535⁰⁰</i>

All of the above prices are subject to change after 15 days.
Any changes or modifications to the job will void the above prices.
Please SIGN this quote and we will put your job into the production order.
THANK YOU

TOTAL	\$7,035.00
--------------	------------

SIGNATURE



Hansen & Young
 1264 5th Avenue
 Prairie Farm, WI 54762
 Phone: (715) 837-1016
 Fax: (715) 837-1025

Paddle #: 3815
 Invoice #: 3815-42582-1
 Date: 29-Oct-2015 01:32 CDT

Buyer Information

Buyer Name: Jeff Deitsch
 Paddle #: 3815
 Phone #: (414) 840-0560
 Email: jeffcindy@charter.net
 Billing: 4943 Fullpail Lane
 West Bend, WI 53095
 Shipping: 4943 Fullpail Lane
 West Bend, WI 53095

Auction Information

Auction: KBS Grove Cranes and Contractor
 Construction Equipment
 Date: 10/27/2015
 Location: 4425 W Mitchell St
 Milwaukee, WI 53204

Lot	Paddle	Description	Qty	Bid	Sale Price	Premium	Tax	Total
20	3815	04 Sterling Acterra 24' Stake Bed Truck - Vin 2FZACGDC75AU1318, 84201.9 miles, 40" removable sides, cat engine 7.2L	1x	\$18,750.00	\$18,750.00	\$1,875.00	\$0.00	\$20,625.00
Total Lots: 1				Totals:	\$18,750.00	\$1,875.00	\$0.00	\$20,625.00

PAID IN FULL

SubTotal: \$20,625.00
 Cash Total Due: \$0.00
 Paid Check: \$20,625.00
 Check: 63864550

Tax codes used: Milwaukee Cty

PLEASE NOTE, IF YOU ARE CONTINUING TO PURCHASE from catalogs 9, 10, 11 & 12, a second final invoice will be sent when bidding ends Wednesday. (Catalog 4 items will be in a separate invoice).

AS IS: All sales are made "as is", with no warranties either expressed or implied by our company or its representatives.

SALES TAX: If you are sales tax exempt, a sales tax exempt form can be filled out and sales tax will be deducted from your invoice.

Find more auctions at www.hansenandyoung.com!

This is a large pick up, so please allow extra time for picking up items.

Please bring help for loading if you need it.

Pick Up: Wednesday, October 28 • 10:00 AM – 4:00 PM,

Thursday, October 29 • 8:00 AM – 4:00 PM &

Friday, October 30 • 8:00 AM – 2:00 PM

Directions: From I-94 take exit 308B to go south on WI-341 S/Miller Park 1 mile. Continue ½ miles on Miller Park Way. Turn right on W Mitchell St. Destination on the left. **4425 W Mitchell St, Milwaukee, WI 53204.**



VILLAGE OF JACKSON



07/10/2014 PM 11:37



07/10/2014 PM 11:34



07/10/2014 PM 11:34



07/10/2014 PM 11:36

Performance

Spin Doctor™ Features and Options



Performance	SD400	SD800	ERB800
Capacity	Operates all valves 4" - 60"	Operates all valves 4" - 60"	Operates all valves 4" - 60"
Speed	0 - 60, depending on hydraulic supply flow	0 - 60, depending on hydraulic supply flow 5 - 30 with ValveSTAR in Auto Mode	0 - 60, depending on hydraulic supply flow 5 - 30 with ValveSTAR in Auto Mode
Torque	0 - 400 ft lbs	0 - 800 ft lbs	0 - 800 ft lbs
Range	Approximately 270 degrees with Extended Reach, 180 degrees without	Approximately 270 degrees with Extended Reach, 180 degrees without	Approximately 270 degrees
Reach	Horizontal: 13' with ER; 9' without Vertical: 4' below surface, 7' above surface	Horizontal: 13' with ER; 9' without Vertical: 4' below surface, 7' above surface	Horizontal: 13' Vertical: 4'
Alignment	Self leveling head to allow for connection to valve not perfectly straight	Self leveling head to allow for connection to valve not perfectly straight	Self leveling head to allow for connection to valve not perfectly straight
Head Tilt	90 degrees side to side 22 degrees front to back	90 degrees side to side 22 degrees front to back	22 degrees side to side 22 degrees front to back
ValveSTAR Capable	No	Yes - Can still run in manual mode when equipped with ValveSTAR option	Yes - Can still run in manual mode when equipped with ValveSTAR option

Features

- All booms come with a LIFETIME WARRANTY for failure due to torque
- All valve exercisers are capable of being mounted by truck, trailer, or vacuum. Slides into any standard 2" receiver hitch.
- Supplied with valve key to operate standard AWWA 2" nut. Telescopic 4' to 9' range, with 3' extension pieces available.
- Unique vertical range allows for valve exercisers to easily reach valves on a hill or in a ditch.
- Vertically positioned SD400 and SD800 allow for reaching over fences and bushes without damaging them.
- When equipped with the ValveStar or ValveStar Auto, the SD800 and ERB800 can still function in manual mode for emergency situations, or when there is a computer failure.

Optional Equipment

- ValveStar - Allows for capturing all exercising data. Uses IMS software to create work orders, store data, and create detailed reports, (included with ValveStar).
- ValveStar Auto - Works in conjunction with the ValveStar to allow for hands free exercising.
- Power Pack - Available in 6.5HP for the SD400, or 14HP for any of the options.
- Trailer - Small trailer unit to contain all of your valve exercising equipment.
- Vacuum - Utility vacuum to allow for an all in one system for cleaning and maintaining valves.
- Slick Stick - Loosens corrosion on valve stems

HURCO
TECHNOLOGIES, INC.
HURCO TECH.COM
1-800-888-1436

VILLAGE OF JACKSON
 PO BOX 637
 JACKSON WI 53037
 Telephone: 262-677-3278
 Fax: 262-677-2028

MILWAUKEE WI
 15655 West Rogers Dr
 New Berlin WI 53151
 Telephone: 262-786-5186
 Fax: 262-782-5952

10/29/15 Bid ID: 4375016 SD800 SPIN DOCTOR

Page 1

Line	Quantity	Sell Per	Description	Net Price	Extended Price
20	1	EA	HURCO SPIN DOCTOR SD800 BOOM WITH HEAD	7,850.00	7,850.00
50	1	EA	HURCO PP14E 14HP POWER PACK	3,825.00	3,825.00
Subtotal:					11,675.00
Tax:					.00
Bid Total:					11,675.00

MEMORANDUM

Date: November 2, 2015

To: Brian Kober, P.E.

From: Greg Droessler, P.E.

Subject: Jackson WWTF – Preliminary SCADA System Assessment

Copy: Steve Muther, Muermann Engineering, LLC

Introduction

The original WWTF control system was installed in 1980 as part of the plant construction. This system received a major upgrade in 1998, and was updated and expanded again in 2005 as part of a large WWTF facilities upgrade. Since that time, a series of minor upgrades or component replacements have been completed for this Supervisory Control And Data Acquisition (SCADA) system to maintain it in working order, largely through the use of gateway adapters (signal convertors) to allow new components to communicate with the older platform.

The SCADA system is made up of a total of 8 panels located throughout the WWTF, as well as 1 additional panel located at a remote lift station. Similar to most electrical or control systems, much of the SCADA equipment installed in 2005 or earlier has served its useful life and is now due for replacement. As identified in our memo dated June 5, 2015, the cost of maintaining the existing system is rising and the Village should consider a replacement of the PLCs, SCADA platform and other components of the SCADA system with more current models to avoid the continued rising cost of individual component replacement of this outdated equipment.

This study is intended to outline the overall scope of improvements required or desired at the WWTF, and develop the overall general scope and preliminary opinion of probable cost for the project. Once the study is complete and the scope of the improvements is approved by the staff and Village Board, a detailed design may begin for the preparation of bidding documents.

The purpose of this document is to inventory the condition of the existing equipment, and to define the approach and technical requirements applicable to an upgrade of the SCADA system for the WWTF and Sanitary Sewer Collection System. The approach and technical requirements defined herein serve as the basis for the Preliminary Construction Cost opinions.

Existing System Overview

Wastewater Facility Supervisory Control and Data Acquisition System (SCADA) - The wastewater facility SCADA system consists of the following Local Control Panels (LCPs):

- LCP-A – Service Building, Main PLC
- LCP-B – Tertiary Filter Building
- LCP-C – Pre-treatment Building
- LCP-D – Digester Control Building (Also Labeled as 100-LCP-1)
- LCP-E – Blower Building
- LCP-F – Sludge Recirculation Building
- LCP-G – Aeration Basin Control Building
- LCP-H – Secondary Sludge Building
- LCP-3-1-HMI – Septage Hauler Graphic Interface Only

Each Area Control Panel is typically equipped with:

- A Programmable Logic Controller (PLC)
- A graphical Human Machine Interface (HMI) touch screen/keypad.
- Hand-Off-Auto selector switches and Pilot Lights (most locations)
- Uninterruptible Power Supply (UPS) units.

In addition to the above which comprise the WWTF's main PLC control network, the following vendor panels are also present. These panels and the process they control are either stand alone, or monitored only via basic hardwired status connections (On, Off, Trouble) to the Building LCP in the area.

- LCP-1-4 – Screen Control Panel
- LCP-1-5 – Screenings Compactor Control Panel
- LCP-2-3 – Grit Washer Control Panel
- LCP-3-1 – Septage Receiving Control Panel
- LCP-3-X – Septage Receiving Odor Control Panel
- LCP-4-1/-4-2 – Aeration Turbo Compressor Control Panel
 - Note: An attempt was made to interface these panels to the plant PLC network, with limited success.
- LCP-X-X – Sludge Boiler Control Panel
- LCP-X-1/-2 – Digester Mixing Pumps Control Panels
- LCP-X-1/-2 – Tertiary Filters Controls Panels
- LCP-X-X – Digester Gas Flare Control Panel

The primary plant-wide SCADA PLC communication network between the respective Building LCPs is a fiber-optic based system utilizing modules manufactured by Phoenix Digital. These units communicate to Plant PLCs via an Allen Bradley protocol known as Data Highway Plus (DH+), a proprietary serial type communication protocol. Communication between this DH+ communication based PLC network and the SCADA PC (Personal Computer) system had originally been via a special communication card installed in the computer.

A PC based, real-time Human-Machine Interface (HMI) software package (Intellisys) depicts the entire plant's processes and displays the current status. This software also provides operator access to certain operator adjustable control parameters. An additional module of this software provides reporting capability, as well as the ability to enter laboratory test data and file regulatory reports.

The SCADA PCs are presently connected on the Village managed local Ethernet network which serves the WWTF's lab and office area. This local network is integrated into the Village's wide area network serving Village administrative services.

Sanitary Sewer Collection System - The existing collection system is primarily gravity flow, with only one sanitary lift station serving a limited service area. This station had been monitored utilizing a wireless network, but is no longer functioning and the station is presently not monitored.

Discussion of Considerations

Wastewater Facility SCADA System

- The existing PLC control network was last upgraded in 1998 and utilized high quality industrial components. Technology, however, has continued to evolve. PLC components to support the existing system will be available for years to come. However, as it is now obsolete equipment, the cost of replacement components has increased significantly. The basic PLC programming language has evolved to a new standard as well.
- Network communication has moved from the proprietary serial communication type system (think dial-up modem speed) to a high speed Ethernet based system.
- Fiber optic technology has changed. The interface cards presently used on this network are now obsolete. Replacement components are available, but at a relatively high cost, with long lead times. The fiber optic cable itself, can still be used.
- New equipment installed at the plant is equipped with Ethernet based PLC controllers. At present, however, it is not practical to interface those newer vendor panels to the control network, which means monitoring of new equipment is limited to the very basics (On/Off/Fail). Many of these newer vendor panels can easily be integrated into an upgraded Ethernet based PLC network.
- There are a number of process control panels which are not integrated into the plant's SCADA system. They are only minimally monitored, or not monitored at all. There is little or no ability to optimize their functioning in the overall plant control, potentially hampering process efficiency, energy efficiency, or both.
- Certain new instruments have not been integrated into the SCADA system (such as a recently added Phosphorus Analyzer). This typically limits the ability to optimize the treatment process, or collect data which can be used for further process improvements.
- We saw some instances where manual control of process motors required that the PLC was functioning. Typically at a wastewater plant, Hand operation of a process motor does not involve a PLC, so that if the PLC becomes inoperative, an operator can still manually operate the process. This was noticed in the digester building, however we do not know how prevalent this approach is. We would recommend that it be investigated and remedied in an upgrade.
- The existing SCADA software (Intellisys) has been in the process of being upgraded to a version which will run on the current Windows platform. Our understanding is that this has taken nearly the entire year, and is not yet complete. The Intellisys software is not widely supported by the majority of System Integrators in Wisconsin which typically service municipal water and wastewater plants.
- It appeared that the ability to access something as relatively simple as trending on the SCADA software was not straightforward. This came up during a recent visit with an attempt to trouble shoot a problem with influent wetwell pumps not running at speed during the previous night. Fortunately, the programmer working on the SCADA software upgrade was on site and able to temporarily add trend lines for the parameters of interest. Normally, this is a simple task that any operator should have ready access to.
- We observed the routine process of entering lab data into work sheets and the same value had to be entered into different locations. It appears that data entry was more cumbersome than it should be.

- In our experience, utilizing SCADA software which combines the visualization (real-time display of conditions) and the management/reporting functions typically results in a compromise of one, or both functions.
- The co-mingling of the SCADA network and the Village's enterprise network cannot continue. These networks have differences and serve different purposes. The liabilities and potential for damage on the industrial side are significant. With a SCADA and PLC network upgrade, the plant's entire control network will operate on an Ethernet communication system. Exposing the industrial network to the business enterprise network can have disastrous results. It will be important for the Village's IT resources and the System Integrator which would be involved in the SCADA upgrade to clearly identify lines of responsibility to ensure the integrity of the control network.

Sanitary Collection System

- There is presently no monitoring of the lift station.
- Remote telemetry link options will need to be explored, including various types of telemetry radios (licensed UHF, license-free 900 Spread Spectrum), as well as a cellular based link.
- The addition of an Ethernet based PLC at this station would open up the possibility of monitoring additional status points at this station, as well making remote set-point adjustment and control possible. Pump control would remain local to the station.

Recommended General System Improvements

Upgrade the existing system components as needed to implement a new SCADA system which will reliably control and monitor the wastewater treatment plant and the sanitary sewer collection system.

PLC/Hardware

- Provide a communication link to the Sanitary Lift Station and upgrade the controller to permit monitoring of all status conditions, and provide access to all control parameters.
- Upgrade the plant's local control panel PLCs with Ethernet PLCs. Replace existing LCP touch screen HMIs with current generation, Ethernet connected units.
- As an alternative to upgrading the HMIs at LCPs, consider using tablet computers which can be used throughout the plant for control system access.
- Integrate vendor panels into the SCADA network to the fullest extent possible to provide monitoring of all available parameters.
 - Integrate PLC equipped vendor panels via an Ethernet connection to the SCADA network.
 - Retrofit non-PLC equipped vendor panels with Ethernet PLCs to permit integration into the SCADA network.
- Re-use and expand the existing fiber optic infrastructure. Replace the Phoenix Digital fiber optic modules with Ethernet switches.
- Integrate all process instrumentation presently not connected to the SCADA system.
- Provide a Master HMI in the service building to provide access to the entire SCADA network and provide back-up monitoring and control in the event of a SCADA computer(s) failure.

- Revisit all control sequences and update as necessary to integrate new process and instruments. Provide enhances process control and flexibility.

SCADA Computer/Software

- Upgrade SCADA computer hardware platform to ensure the integrity of the industrial control network and proper isolation from the business enterprise network.
- Upgrade SCADA visualization software to include expanded process control and monitoring.
 - Evaluate available options and enhance or replace software as necessary to provide the needed functionality.
- Upgrade wastewater management software to include expanded process control and monitoring.
 - Evaluate available options and enhance or replace software as necessary to provide the needed data management functions.
- Provide remote access system for staff which allows access from a variety of remote devices such as smartphone, tablet, or desktop/laptop PC. System must be compatible with the Village's remote access security policies.
- The control network and computer system will be expandable to incorporate future system expansion as well as any other future facilities that may be added to the system.

System Improvement Recommendations

The followings recommendations are made for the WWTF and Collection System SCADA systems:

Wastewater Treatment Facility – Building LCPs

Improvements common to all Building LCPs

- Replace existing PLC with a current technology PLC platform, Allen Bradley (AB) CompactLogix. Replace processor, existing I/O cards and I/O card chassis with new. Convert PLC programming to new programming platform.
- Provide new UPS with battery fail monitoring via SCADA system and by-pass relay system to reconnect to normal power in the event of a UPS failure.
- Install industrial Ethernet switch to replace existing Phoenix Digital fiber optic cable interface. Re-use existing fiber optic cable. Re-test all terminations and replace as necessary.
- Replace existing OIT touchscreen/keypad with new Ethernet connected AB PanelView Plus 6/7 12" touchscreen. Provide graphic screens and capability to utilize this screen as the back-up operator interface to monitor and control all critical processes in the even the SCADA PC equipment is not functioning.

Options common to all Building LCPs

- Option - Re-use existing I/O cards and card chassis for cost savings.
- Option – Eliminate existing OIT touchscreen. Replace functionality with tablet computers (e.g. Apple iPad). Replace existing PLC with a current technology PLC platform.

Location Specific Recommendations

LCP-A (Main PLC)

- Utilize existing Hardwired dialer as the back-up alarm dialer.
- Additional Integration: None

LCP-B (Tertiary Filter Building)

- Additional Integration:
 - Integrate (2) Tertiary Filter Control panels into the SCADA network at this LCP.
 - Integrate phosphorous analyzer and chemical dosing pump control.

LCP-C (Pre-Treatment Building)

- Additional Integration:
 - Integrate Grit Washer panel into the SCADA network through this LCP.
 - Integrate Septage Receiving panel into the SCADA network through this LCP; extend fiber optic Ethernet to Septage Receiving panel.
 - Integrate Screen panel into the SCADA network through this LCP.
 - Integrate the Screenings Compactor panel into the SCADA network through this LCP.
 - Integrate odor control system into the SCADA network through this LCP.

LCP-D (Digester Control Building)

- Extend fiber optic cable to this location from main fiber optic panel at Service Building.
- Replace existing OIT touchscreen/keypad with new Ethernet connected AB PanelView Plus 6/7 12" touchscreen.
- Additional Integration:
 - Modify or replace (2) digester floating cover level switches to level transducers for continuous cover level monitoring.
 - Integrate Sludge Boiler control panel into the SCADA network via Ethernet network connection to this panel.
 - Revise pump interconnect wiring and logic to ensure that process in "Hand" at the MCC does not pass through PLC I/O.
 - Integrate (2) sludge digester mixing pump control panels into the SCADA network via hard-wired interconnect to this panel. Provide process control set-points and timers via PLC logic.
 - Integrate Digester Gas control panel monitoring into the SCADA network via hard-wired interconnects.

LCP-E (Blower Building)

- Additional Integration:
 - Integrate Turbo Compressor panels into the SCADA network through this LCP; extend Ethernet network connections to the Turbo Compressor panels.

LCP-F (Sludge Recirculation Building)

- Additional Integration:
 - Integrate Sludge Load-out new magnetic flow meter into the SCADA network through this LCP.

LCP-G (Aeration Basin Control Building)

- Additional Integration: None

LCP-H (Secondary Sludge Building)

- Additional Integration:
 - Replace existing VFDs with current technology VFDs incorporating Ethernet communication to PLC for control and monitoring.
 - Provide logic and control wiring interface to control hoists to automatically re-position (2) RAS screw pumps. Provide position monitoring instruments to monitor position of screw pumps and prevent over-travel of the hoist position system.

LCP-1-4 (Screen Control Panel)

- Provide interposing relays as necessary to monitor desired status points.

LCP-1-5 (Screenings Compactor Control Panel)

- Revise programming to interface to SCADA network.
- Extend Ethernet cable connection to LCP-C.

LCP-2-3 (Grit Washer Control Panel)

- Revise programming to interface to SCADA network.

LCP-3-1 (Septage Receiving Control Panel)

- Revise programming to interface to SCADA network.
- Provide Industrial Ethernet switch
- Provide media converter (fiber optic to Ethernet). Install fiber optic cable to LCP-C.

LCP-3-1-HMI (Septage Hauler HMI)

- Provide media converter (fiber optic to copper Ethernet). Install fiber optic cable to Ethernet switch in LCP-3-1.

LCP-3-X Septage Receiving Odor Control Panel

- Provide interposing relays as necessary to monitor desired status points through LCP-C

LCP-4-1/-2 Turbo Compressor Control Panels

- Revise programming to interface to SCADA network.
- Extend Ethernet cable connection to LCP-E.

LCP-X-X Sludge Boiler Control Panel

- Extend Ethernet cable connection to LCP-D.

LCP-X-1/-2 digester Mixing Pumps Control Panels

- Provide interposing relays as necessary to monitor desired status points through LCP-D.

LCP-X-1/-2 Tertiary Filter Control Panels

- Revise programming to interface to SCADA network.
- Extend Ethernet cable connection to LCP-B.
- Provide Industrial Ethernet switch for panel -1.

LCP-X-X Digester Gas Flare Control Panel

- Provide interposing relays as necessary to monitor desired status points through LCP-D.

Lift Station Improvements

- New PLC based controller to manage communication and pump station monitoring and control functions. Move control power transformer to panel exterior. Install PLC, radio, power supply, and relays within existing cabinet.
- Provide new UPS with battery fail monitoring via SCADA system and by-pass relay system to reconnect to normal power in the event of a UPS failure.
- Communication device (as determined after review of available options).
- Run/Fail/Moisture/High Temp monitoring of the pumps.
- VFD Monitoring.
- Excessive Run-time Alarming.
- Wet well level alarm monitoring.
- Discrete float status monitoring.
- Existing Level transducer with set-point control via new PLC
- Existing floats and controller for back-up operation.
- Power Fail monitoring.
- **Optional** – Touch screen for local set-point control at station.

SCADA Programming, Computer, and Software Recommendations

- Process Control Sequences.
 - Prepare a revised Sequence of Operation specification to be used to guide the programmers in the upgrade.
 - This will be a collaborative effort involving the staff, the process engineer and the controls engineer.
- SCADA Visualization Software
 - Replace Intellisys software with software more widely adopted and supported in the municipal water and wastewater industry in Wisconsin.
 - Wonderware is recommended. Other options include Rockwell RSView and GE iFix.
 - Provide licensing to allow for multiple users to remotely access the SCADA system concurrently, from either within the plant or remotely. Remote access shall support smartphones, tablet devices, and conventional laptop and desktop computers. Wonderware InTouch Access Anywhere is recommended.
 - SCADA computers furnished and configured by the System Integrator
- Wastewater Management Software
 - Replace Intellisys software with software more widely adopted and supported in the municipal water and wastewater industry in Wisconsin
 - Hach WIMS is recommended. Other options include Allmax Operator 10.
 - Integrate the Septage hauler invoicing into the reporting system.
- Alarm Notification Software
 - Provide PC based alarm notification software integrated tightly into the SCADA visualization software.
 - Utilized existing hardware dialer as a PLC based back-up alarm dialer.
- Industrial Control Network
 - Establish an industrial control network for plant process control.
 - Provide fire-walling and access control consistent with industrial control practices.
 - Coordinate with the Village's IT consultant to maintain security and establish remote access for wastewater staff and System Integrator support.

Design and Procurement Approach

The traditional approach used by engineering firms and municipal utilities for capital improvement projects follows the Design-Bid-Build sequence. While we believe this approach is appropriate for projects primarily involving the construction trades, we also feel that it unnecessarily limits the potential for success of purely SCADA system projects. In particular, when a Village undertakes replacement of its entire water and wastewater utility control system, many factors in addition to cost should play an important role in the selection of a control system provider.

To this end, we have developed an innovative approach to SCADA system projects where the Design-Bid-Build sequence is abandoned in favor of an evaluated proposal process consisting of the following steps:

Owner Education – Engineer assists the Owner in identifying the required and the desired system features by touring and discussing successful SCADA projects that have been implemented by other communities.

Baseline System Requirements – Engineer prepares documents identifying the Owner's minimum system requirements after complete review of the existing facilities, application of the technical features identified above, and a thorough review of cost impacts.

Proposals- Engineer and Owner review and rank proposals solicited from SCADA system providers against pre-defined criteria (including but not limited to such items as technical merit, creativity, staff capabilities, experience, service capabilities, knowledge of existing facilities, and cost).

Presentation/Interview – Engineer and Owner select providers that will be asked to present the merits of their proposal and organization to the Owner and Engineer. As part of the presentations, it may be appropriate to visit additional systems that were implemented by the providers.

Selection – Based on the highest overall value to the Owner, a SCADA provider is selected.

Construction Phase – Traditional services such as shop drawing review, construction observation, and start-up are performed. During this phase it is extremely important for the Owner and Engineer to attend a factory demonstration of the system before it is installed.

We strongly believe that the above approach encourages all of the aspects critical to the long-term success of a SCADA system project: Owner involvement and understanding throughout the process, creativity and cooperation on the part of the provider, and flexibility regarding costs.

We have successfully implemented SCADA projects using this approach with several communities including Rhinelander, Tomah, Reedsburg, Viroqua, and others.

Computer Problem Log

7:00am

11-18-15 unable to change flow rates on old SCADA
new SCADA reading all zero's
old SCADA crashed when trying to shut it down on
old server. removed Paradox on old server sys-
view folder

real-time/ServerAB not responding - Task Manager
- end task. tried restarting real-time/ServerAB -
DbiOpenTable Error

keep getting Paradox Error 78 when trying to restart
old SCADA - can't find any more LCK files.

Restarting old Server

Service Control Manager "at least one service or driver
failed during system startup."

real-time display crashed again

restarting old server again Can't restart old SCADA

Swm.exe not responding

- restarted ethernet bridge - no red lights - values back
on new SCADA but now PLC in WAS room needs to
be restarted, reading zeroes

tried changing RAS flow value + old SCADA crashed
again - App Error, FMTDSP caused a general
protection fault in module DV_LIB.DLL

real-time/server AB not responding

restarting old server again

tried closing everything + running start-app on old server
old SCADA back up. Not trying to adjust anything
until WAS PLC is restarted

NOTE: old SCADA read both seepage tanks had over 2ft in them before being restarted. Afterwards reading zero which is correct. CC

- 1/18/15 - Leo RAW Pump Froze At 4.52 would not ramp up. Its pump would turn on and off at set points. Reset Leo pump turned back on and would not ramp up. Turn on Leo pump on then Leo would ramp up run normal until 4.2 ft in wet well and then lock into 45.4 MHz JD
- JLD
- 11-18-15 10:00am last import data is from Jan. Contacted Randy to restart HDServer Import Service CC
- 10:17am noticed that trending data on new SCADA ended @ 10pm 11-17-15 and came back when ethernet bridge was reset. CC
- 18-15 1:00pm new SCADA had a glitch in trending data from @ 10:54am to @ 12:02pm. values dropped to zero > 10 times CC
- 11-18-15 2:00pm Lab PC #2 needed power turned off = back on - was unresponsive with blank screen
- Lab PC #2 / Backup was unsuccessful on 11/18/2015, 2:59pm not sure if the auto backup ever succeeded on this PC
- also - Kaspersky Security reports "databases are extremely out of date" on PC 2
- 11/19/15 - 10:00pm 11/18/15 Blower lock into ~~Mode~~ Current mode of running. Blower 3 was on and Blower 1 was off all night. Try to reset converter and nothing happen. Reset Allen Bradley and Blowers started to run in normal operation Did this around 10:45am JLD
- Last time this happen was 11/7/2015

MEMORANDUM

Date: November 18, 2015

To: Brian Kober, P.E. – Village of Jackson

From: Greg Droessler, P.E.

Subject: Village of Jackson – WWTP SCADA Upgrades

Project Scope and Understanding

The Village of Jackson has an aging SCADA system at the WWTF, portions of which dates back to the 1990's. The system has recently seen failures of various PLCs and the Village has struggled to maintain this system in a useable form. The Village contracted with Town and Country Engineering in August, 2015 to complete a Preliminary Engineering Study of this system to evaluate the existing system and to develop a plan to either maintain or replace the existing system. The recommendation of this Study was the Village should consider replacing the PLCs and other major components in panels throughout the WWTF and lift station while maintaining the fiber optic backbone of the existing system for future use.

Our approach will allow flexibility and owner control of the SCADA system improvements project, and the system integrator will be selected using a base-bid proposal format. This format will allow the Village to receive comparable competitive bids in accordance with applicable bidding laws, while providing maximum owner control of the selection process. This process allows the Owner to select the overall best value offered to the Village, not just the low bid for a project.

1. Initial Investigation Phase

This phase was completed as part of the Study.

2. Developing Project Scope and Alternatives

The overall project would include as a base, replacing or upgrading the existing PLCs and displays in the control panels (and vendor provided panels) throughout the WWTF and lift station. The new PLCs will be equipped with more communication ports and several ports depending on what is needed now and in the future. The Input / Output (I/O) cards can remain to keep costs lower, but will also be evaluated.

The main PLC controller will be located at the Administration building utilizing a new Compactlogix PLC controller. This controller is more robust, will be capable of handling all future needs, and is the latest technology and programming. It is recommended that the equipment be ethernet capable, so it can communicate with either radio or fiber. Also located at the Administration Building will be the Hach WIMS management software, new computer, firewalls and set up for remote connections. We can also assist the staff in setting up the Hach's WIM management systems.

The system will be set up to trend all operating points that are collected by the SCADA system, monitor status of equipment, develop sequence of operation, and allow the operator to change set points for equipment to be controlled. All this data collected will be transferred to the management software. It is assumed that Wonderware would be used as the base bid for evaluating systems with other programs offered as alternates.

3. Document Preparation

An overall system architecture drawing will be prepared. The purpose of this document will be to clearly identify hardware requirements, communication system methodology, and HMI requirements (hardware and software). Specific product quality will be required in the base bid.

Photographic elements will be used in the procurement document to identify installation requirements in each of the control panels or motor control centers, as well as any other specific work items which require clear definition.

Text based requirements will be prepared for proposal/bidding requirements, selection process, documentation requirements, hardware and software technical requirements, and any other necessary work items.

4. Owner Review and Final Document Preparation

After preparation of the procurement document, an owner review meeting will be scheduled. During this meeting with Village staff, technical aspects of the design will be discussed in detail. Probable cost estimates will be developed for this project. The proposal/bidding process will also be clearly defined.

Any comments or corrections will be incorporated into final documents and copies will be prepared for circulation to prospective bidders. Documents will be submitted to regulatory agencies if deemed necessary.

The final bid proposals will require specific brand of equipment to be furnished as part of the base bid. Alternatives with a lower cost will be allowed to be submitted with the bid. The Engineer, along with the Owner, will decide if the alternatives are comparable in quality to the base bid. This allows the Owner to obtain the highest quality equipment and service and overall best value to the Village. The lowest cost bid will not be taken in all cases.

5. Procurement and Bidding Phase

A pre-proposal walk-through for all perspective bidders will be scheduled and conducted by the owner and engineer. Any clarifications will be issued to bidders by addendum.

Bid proposals will be received by the owner and evaluated by the engineer. After initial evaluation a meeting will be scheduled with the owner to discuss proposals and select qualified bidders for interviews.

Interviews will be conducted with 1-2 qualified bidders, depending on cost and quality of submittals with the bid package. These interviews will consist of demonstrations of system functionality, discussion of qualifications, review of expected end product, review of O&M manuals, and questions. Site visits to existing systems of each qualified bidder may be arranged if the owner and engineer deem it necessary to aid in their selection of the most beneficial proposal.

The proposal most beneficial to the Village, as determined by the Village and Engineer, will be selected and a contract will be awarded for construction of the project. It should be noted that the low bidder may not be the most beneficial proposal and, therefore, not the selected bidder.

6. Construction Phase

Submittal drawings will be prepared by the successful bidder and reviewed by the engineer. A meeting will be scheduled with the owner to “walk-through” the submittal which will ensure owner understanding of all project components and will allow for any additional modifications to be implemented. This allows the Owner additional input into the project.

A factory test demonstration will be witnessed by the owner and engineer to verify system functionality. This factory test will allow the Owner to review the screens, review the sequence of operation and allow the bidder to make changes before sending to the site. This factory test is intended to substantially cut the amount of startup problems, and allow the Owner another opportunity for input before delivery to site.

Installation work will be reviewed. Start-up and testing will be witnessed by the engineer and a punch list of items to be corrected will be compiled. Periodic site inspections will take place as deemed necessary.

The Engineer will review as-built documentation prior to close out of the project. Final payment will not be issued until all controls are operating properly.

The Engineer will perform normal construction administration duties, including attending meetings with the Owner, and negotiate changes during construction, if they occur.

Owner Responsibilities

The Village will be expected to provide Town & Country Engineering with drawings, O & M Manuals, etc. relating to the existing facility to aid in the design of the project. In addition, facility

staff will be involved in design meetings to identify control system strategies, and to assist in developing construction sequence strategies.

Items Not Included in the Above Scope

The following items have not been included in the scope of work. These items may or may not be required or needed for the project. If needed, an estimate can be provided before proceeding.

- Operation services relating to the existing treatment processes or equipment
- Costs for bid advertisements
- Our scope of work does not include generating the graphic screens on the chosen software.

Engineering Costs

The design, preparation of bidding documents, bidding and construction administration for the SCADA is estimated to cost between \$46,000 and \$54,000 and costs will be invoiced on a Time and Material basis.

The major advantage that Town & Country Engineering, Inc. offers is having both a wastewater engineer and instrumentation and control (I&C) engineer involved. This approach maximizes the plant efficiencies and operations, while implementing the controls upgrade required. Greg Droessler will be involved on the process side, while Steve Muther (Muermann Engineering) will be the I&C engineer.

cc: Mr. Steve Muther, P.E., Muermann Engineering, LLC (*W227 N16867 Tillie Lake Court, Suite 202, Jackson, WI 53037*)

GJD

J:\JOB#S\Jackson\JK-00-00\O&E\2015 Preliminary Design Study for WWTP SCADA Upgrades\Final SCADA Design Scope.docx

Agenda item documents were not received in time to be part of the packet.

The information will be distributed at the meeting.

Public Works Report

November 24, 2015

Treatment Plant - Designed Capacity – 1.67 million gallons per day
Peak Flow Capacity – 6.0 million gallons per day

Year 2013

January	Avg. Flow 944,193 g.p.d.	Min. Flow 699,000 g.p.d.	Max. 2.054 MGD
February	Avg. Flow 845,179 g.p.d.	Min. Flow 697,000 g.p.d.	Max. 1.394 MGD
March	Avg. Flow 1.028 MGD	Min. Flow 637,000 g.p.d.	Max. 1.028 MGD
April	Avg. Flow 1.473 MGD	Min. Flow 934,000 g.p.d.	Max. 3.042 MGD
May	Avg. Flow 1.167 MGD	Min. Flow 932,000 g.p.d.	Max. 1.908 MGD
June	Avg. Flow 1.1207 MGD	Min. Flow 859,000 g.p.d.	Max. 1.791 MGD
July	Avg. Flow 777,097 g.p.d.	Min. Flow 643,000 g.p.d.	Max. 1.337 MGD
August	Avg. Flow 673,677 g.p.d.	Min. Flow 551,000 g.p.d.	Max. 1.148 MGD
September	Avg. Flow 629,533 g.p.d.	Min. Flow 532,000 g.p.d.	Max. 761,000 g.p.d.
October	Avg. Flow 688,064 g.p.d.	Min. Flow 600,000 g.p.d.	Max. 884,000 g.p.d.
November	Avg. Flow 763,800 g.p.d.	Min. Flow 660,000 g.p.d.	Max. 1.122 MGD
December	Avg. Flow 697,677 g.p.d.	Min. Flow 564,000 g.p.d.	Max. 802,000 g.p.d.

Year 2014

January	Avg. Flow 695,355 g.p.d.	Min. Flow 626,000 g.p.d.	Max. 822,000 g.p.d.
February	Avg. Flow 659,286 g.p.d.	Min. Flow 581,000 g.p.d.	Max. 874,000 g.p.d.
March	Avg. Flow 941,613 g.p.d.	Min. Flow 611,000 g.p.d.	Max. 1.285 MGD
April	Avg. Flow 1.172 MGD	Min. Flow 814,000 g.p.d.	Max. 3.188 MGD
May	Avg. Flow 947,322 g.p.d.	Min. Flow 688,000 g.p.d.	Max. 1.474 MGD
June	Avg. Flow 1.199 MGD	Min. Flow 732,000 g.p.d.	Max. 2.223 MGD
July	Avg. Flow 846,226 g.p.d.	Min. Flow 670,000 g.p.d.	Max. 1.646 MGD
August	Avg. Flow 743,322 g.p.d.	Min. Flow 603,000 g.p.d.	Max. 1.039 MGD
September	Avg. Flow 646,567 g.p.d.	Min. Flow 532,000 g.p.d.	Max. 759,000 g.p.d.
October	Avg. Flow 707,484 g.p.d.	Min. Flow 584,000 g.p.d.	Max. 898,000 g.p.d.
November	Avg. Flow 698,267 g.p.d.	Min. Flow 581,000 g.p.d.	Max. 1.086 MGD
December	Avg. Flow 788,065 g.p.d.	Min. Flow 658,000 g.p.d.	Max. 1.228 MGD

Year 2015

January	Avg. Flow 667,774 g.p.d.	Min. Flow 617,000 g.p.d.	Max. 713,000 g.p.d.
February	Avg. Flow 620,893 g.p.d.	Min. Flow 591,000 g.p.d.	Max. 662,000 g.p.d.
March	Avg. Flow 753,484 g.p.d.	Min. Flow 597,000 g.p.d.	Max. 885,000 g.p.d.
April	Avg. Flow 1.203 MGD	Min. Flow 705,000 g.p.d.	Max. 3.759 MGD
May	Avg. Flow 775,323 g.p.d.	Min. Flow 584,000 g.p.d.	Max. 1.317 MGD
June	Avg. Flow 905,633 g.p.d.	Min. Flow 661,000 g.p.d.	Max. 1.409 MGD
July	Avg. Flow 696,290 g.p.d.	Min. Flow 571,000 g.p.d.	Max. 912,000 g.p.d.
August	Avg. Flow 726,935 g.p.d.	Min. Flow 558,000 g.p.d.	Max. 1.254 MGD
September	Avg. Flow 728,240 g.p.d.	Min. Flow 526,000 g.p.d.	Max. 1.364 MGD
October	Avg. Flow 505,516 g.p.d.	Min. Flow 409,000 g.p.d.	Max. 691,000 g.p.d.

Years Summary of Water Consumption

2000 Total Pumpage 180,485,400 gallons	2001 Total Pumpage 184,613,300 gallons
2002 Total Pumpage 200,630,000 gallons	2003 Total Pumpage 278,246,000 gallons
2004 Total Pumpage 216,055,000 gallons	2005 Total Pumpage 223,215,000 gallons
2006 Total Pumpage 207,719,000 gallons	2007 Total Pumpage 217,224,000 gallons
2008 Total Pumpage 229,613,000 gallons	2009 Total Pumpage 231,160,000 gallons
2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	

Year 2013

Jan. Avg. 562,000 g.p.d.	Highest Day 837,000 gal.	Total 17,422,000 gallons
Feb Avg 549,820 g.p.d.	Highest Day 718,000 gal	Total 15,395,000 gallons
March Avg. 540,520 g.p.d.	Highest Day 725,000 gal	Total 16,756,000 gallons
April Avg. 585,170 g.p.d.	Highest Day 981,000 gal	Total 17,555,000 gallons
May Avg. 595,810 g.p.d.	Highest Day 752,000 gal.	Total 18,470,000 gallons
June Avg. 681,400 g.p.d.	Highest Day 914,000 gal.	Total 20,442,000 gallons
July Avg. 787,230 g.p.d.	Highest Day 1.039 MGD	Total 24,404,000 gallons
August Avg. 796,580 g.p.d.	Highest Day 1.107 MGD	Total 24,694,000 gallons
Sept Avg. 631,500 g.p.d.	Highest Day 838,000 gal.	Total 18,945,000 gallons
Oct Avg. 850,000 g.p.d.	Highest Day 1.13 MGD	Total 26,310,000 gallons
Nov Avg. 568,600 g.p.d.	Highest Day 731,000 gals.	Total 17,058,000 gallons
Dec Avg. 588,230 g.p.d.	Highest Day 701,000 gals.	Total 18,235,000 gallons

Year 2014

Jan. Avg. 620,550 g.p.d.	Highest Day 789,000 gals.	Total 19,237,000 gallons
Feb. Avg. 612,390 g.p.d.	Highest Day 717,000 gals.	Total 17,147,000 gallons
March Avg. 603,710 g.p.d.	Highest Day 678,000 gals.	Total 18,715,000 gallons
April Avg. 602,600 g.p.d.	Highest Day 1.037 MGD	Total 18,078,000 gallons
May Avg. 599,290 g.p.d.	Highest Day 729,000 gals.	Total 18,578,000 gallons
June Avg. 658,000 g.p.d.	Highest Day 815,000 gals.	Total 19,740,000 gallons
July Avg. 684,320 g.p.d.	Highest Day 881,000 gals.	Total 21,214,000 gallons
August Avg. 703,320 g.p.d.	Highest Day 1.019 MGD	Total 21,803,000 gallons
Sept Avg. 639,170 g.p.d.	Highest Day 747,000 gals.	Total 19,275,000 gallons
October Avg. 658,940 g.p.d.	Highest Day 1.042 MGD	Total 20,427,000 gallons
Nov Avg. 595,800 g.p.d.	Highest Day 733,000 gals.	Total 17,874,000 gallons
Dec Avg. 610,970 g.p.d.	Highest Day 742,000 gals.	Total 18,940,000 gallons

Year 2015

Jan. Avg. 599,680 g.p.d.	Highest Day 719,000 gals.	Total 18,590,000 gallons
Feb Avg. 587,040 g.p.d.	Highest Day 736,000 gals.	Total 16,437,000 gallons
March Avg. 582,970 g.p.d.	Highest Day 698,000 gals.	Total 18,072,000 gallons
April Avg. 601,370 g.p.d.	Highest Day 928,000 gals.	Total 18,041,000 gallons
May Avg. 585,260 g.p.d.	Highest Day 698,000 gals.	Total 18,143,000 gallons
June Avg. 640,430 g.p.d.	Highest Day 779,000 gals.	Total 19,213,000 gallons
July Avg. 722,550 g.p.d.	Highest Day 989,000 gals.	Total 22,399,000 gallons
August Avg. 733,420 g.p.d.	Highest Day 1.197 MGD	Total 22,736,000 gallons
Sept Avg. 615,700 g.p.d.	Highest Day 753,000 gals.	Total 18,471,000 gallons
Oct Avg. 594,840 g.p.d.	Highest Day 945,000 gals	Total 18,440,000 gallons

Pump Capacity - Well #1- 400 g.p.m. Well #2 - abandon; Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.

WWTP – Holding & Septage Receiving

2005	\$ 87,562.01	2007	\$152,201.07	2009	\$183,815.34	2011	\$220,576.28
2006	\$101,115.11	2008	\$210,441.47	2010	\$197,653.66	2012	\$236,224.70
2013	\$235,336.46	2014	\$203,938.32				

2013	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,573,249	44,300	8,000	8,050	52,800	\$15,821.33
Feb	1,403,100	47,400		6,450	46,300	\$14,142.85
March	1,518,450	43,800	28,500	7,250	84,100	\$16,957.58
April	1,764,000	68,200	28,500	38,300	294,900	\$26,445.80
May	1,666,950	17,700	9,800	74,900	182,000	\$21,263.19
June	1,432,600	11,400	4,000	85,750	193,200	\$19,694.61
July	1,549,200	19,800		71,300	166,750	\$19,560.46
August	1,483,850	13,900	24,000	64,300	170,100	\$19,559.73
September	1,306,600	33,200	8,000	69,750	208,200	\$19,658.31
October	1,441,750	52,900	17,000	95,550	335,550	\$26,163.73

2014	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,298,100	26,700	8,000	2,000	40,000	\$12,377.30
Feb	1,214,100	42,400	8,000	9,450	16,250	\$12,181.61
March	1,411,000	43,200	5,000	10,300	57,200	\$14,633.31
April	1,634,000	21,800		39,350	191,100	\$19,620.21
May	1,451,750			63,500	199,450	\$18,414.39
June	1,553,200			30,900	253,600	\$19,225.00
July	1,474,650			40,400	205,450	\$17,812.13
August	1,344,650			35,250	187,250	\$16,176.13
September	1,308,700		3,500	54,650	246,050	\$18,292.51
October	1,431,150			89,350	351,950	\$23,106.38
November	1,078,600			66,100	251,214	\$17,013.86
December	1,400,900			12,650	162,910	\$15,085.50

2015	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,326,850			10,250	52,100	\$11,663.89
Feb	1,191,500			2,500	45,400	\$10,171.26
March	1,507,900			16,150	85,900	\$14,102.76
April	1,668,450			35,250	398,200	\$23,878.38
May	1,190,850			31,100	148,600	\$13,890.38
June	1,407,600			37,750	349,100	\$20,794.50
July	1,485,950			33,830	243,660	\$18,589.33
August	1,255,600			28,050	290,860	\$17,810.50
September	1,459,400			15,500	333,350	\$19,899.26
October	1,273,400	7,200		37,150	369,300	\$20,603.82

Cranberry Creek Phase 4

The access road connecting Jackson Drive has the first lift installed, and sidewalk completion will soon follow.

Final Lift for Developed Subdivisions

Stonewall Ridge Development phase 2 will not be paved this year along with English Oaks Subdivision. The ownership of the various parcels in both areas need to be worked out before paving is started.

Rosewood Drive/TIF #4 Expansion Project

The property still has the potential of being Developed. The Village is pursuing taking ownership of the property.

Laurel Springs Subdivision

The Village has notified the Developer to install the final lift of asphalt in 2015. The Developer (Bielinski Homes) has requested an extension to pave in 2016 when phase 2 of the subdivision in construction.

GIS Program

The Jackson Utilities will start the discussion of upgrading the mapping program with Gremmer and Associates and Town and Country's GIS person.

Digester Upgrade project

The punch list is being corrected. One item remains is the pressure gauges. The gas piping has been reinstalled in the primary digester which is not in use. We are waiting to install additional guides for the cover so cover rotation does not occur in the future.

West Shore Pipeline Break

The lawyers are finalizing the necessary paperwork to accept the work for the project.

Storm Water Management Plan

Discussion has started on creating an outreach and education program for the plan. The data is being completed for the first review.

Georgetown Drive Reconstruction Project

Working on the final pay request to close out the project.

Jackson Drive Sidewalk Project

Construction has been completed with grass growing from the warm Fall. Working on the final pay request to close out the project.

Wilshire Drive Project LRIP

The Village of Jackson has received \$40,662.69 in grant money from the LRIP (Local Roads Improvement Program) for the reconstruction project of Wilshire Drive from Jackson Drive to Georgetown Drive.

Respectfully submitted, Brian W. Kober, P.E.