

AGENDA

Board of Public Works Meeting
Tuesday, August 30, 2016 – 7:00 P.M.
Jackson Village Hall
N168W20733 Main Street

1. Call to Order and Roll Call.
2. Approval of Minutes for July 26, 2016, meeting.
3. Space Needs Analysis Presentation – Cedar Corp.
4. Review of Bids for Industrial Drive Sidewalk Project.
5. Resolution Preliminary Assessment Area Industrial Dr Sidewalk Project.
6. Final Pay Request – Jackson Drive Sidewalk Project.
7. Pay Request #4 – Wilshire Drive Reconstruction Project.
8. Review of Final Assessment Wilshire Drive Reconstruction Project.
9. Stonewall Path Project Update Plan.
10. Director of Public Works Report.
11. Citizens/Village Staff to address the Board.
12. 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, July 26, 2016 – 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 7:00 p.m.

Members present: Brian Heckendorf, Scott Thielmann, Linda Granec, Gloria Teifke, Tr. Kufahl, and Tr. Jack Lippold.

Members excused: None.

Staff present: Brian Kober & John Walther.

2. Approval of Minutes for June 28, 2016 meeting.

Motion by Scott Thielmann, second by Tr. Olson to approve the minutes of the June 28, 2016, Board of Public Works meeting.

Vote: 7 ayes, 0 nays. Motion carried.

3. Pay Request #3 – Wilshire Drive Reconstruction Project.

Brian Kober reviewed the status of the project and the pay request. A punch list has been created to start the process of completing the project. Landscaping of private driveways and installation of Village owned street lights are the next task. Motion by Tr. Kufahl, second by Tr. Lippold to recommend approval of Pay Request #3 – Wilshire Drive Reconstruction Project in an amount not to exceed \$190,084.21.

Vote: 7 ayes, 0 nays. Motion carried.

4. Proposal for Engineering Services – Chateau Drive Reconstruction Project.

Brian Kober reviewed the option to substitute LRIP funding for another project that has a completion deadline of June 30, 2017. The deadline date means that the project has to be completed with all payments finalized, and request for reimbursement. The recommendation is to move the funding to the Chateau Drive Reconstruction from Wilshire Drive west to the dead end. The Village has received a proposal for Engineering of Services from Gremmer & Associates for a lump sum fee of \$18,985.00. Motion by Tr. Olson, second by Linda Granec to recommend approval for engineering of service from Gremmer & Associates for an amount not to exceed \$18,985.00.

Vote: 7 ayes, 0 nays. Motion carried.

5. Stonewall Path Project Update.

Brian Kober updated the Board on the Stonewall Path Project. Back in the fall of 2015 after a meeting with WisDOT staff, we thought the Village had verbal approval with minor changes, but so far the Village along with Bloom Engineering are on the third plan revision since the meeting. The goal is to have WisDOT approval before the next Board of Public Works meeting. The item was an update only, so action was necessary at this time.

6. Discussion on WisDOT STH 60 maintenance at Railroad Tracks.

Brian Kober reviewed with the Board the email conversation with Canadian National and WisDOT on the maintenance of STH 60 at the railroad crossing. Motorists have been complaining on the potholes next to the railroad track in the east bound lane. The Village has been patching the troubled stop while Canadian National and WisDOT work out a more permanent solution. WisDOT has budget constraints to complete the repair. The item was an update only, so action was necessary at this time.

7. Patriot Homes, LLC Development – Town of Polk – Extension of Village Water and Sewer.

John Walther explained the proposed development to the Board, and the Village is preparing an agreement for the utility connection. Patriot Homes LLC Development is proposed to connect to the water and sewer that extends to the Washington County Fair Park. Thomas Timblin from Patriot Homes, LLC was present to answer any questions.

Tr. Kufahl asked what kind of proposed uses will be in the development?

Mr. Timblin stated that a hotel is possible along with multi-family residential units with underground parking.

Gloria Teifke asked if any single family residential units are being proposed, and how many total residential units are being proposed?

Mr. Timblin said no single family are being proposed, and working on the total number of units with the Town of Polk.

The item was for information only, so action was necessary at this time.

8. Director of Public Works Report.

Motion by Linda Granec, second by Tr. Lippold to place the report on file.

Vote: 7 ayes, 0 nays. Motion carried.

9. Citizens/Village Staff to address the Board.

Jim Piefer from Cobblestone Trail Condominium Association was present to address the Board on drainage issues associated with Cobblestone Trails Development. Brian Kober will setup an onsite meeting to address the issues.

Residents from Cobblestone Trail requested the Village look at the asphalt path along Glen Brooke Drive and provide the necessary maintenance for the path or replace the damaged areas.

10. Adjourn.

Motion by Linda Granec, second by Tr. Lippold to adjourn at 7:50 p.m.

Vote: 7 ayes, 0 nays. Motion carried.

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



93 S. Pioneer Road
Suite 300
Fond du Lac, WI 54935
Phone (920) 924-5720
Fax (920) 924-5725

August 24, 2016

Village of Jackson
N168 W20733 Main Street
Jackson, WI 53037

Attention: Brian Kober
Director of Public Works

Subject: Industrial Drive Sidewalk
STH 60 – Tower Drive
Project No. 160622
Bid Review

Dear Mr. Kober:

We have evaluated the bids received on August 23rd, 2016 for the Industrial Drive sidewalk project from STH 60 to Tower Drive.

Six bids were received and are shown below:

<u>Company</u>	<u>Bid Total</u>
T.P. Concrete Inc.	\$46,885.50
Ptaschinski Const., Inc.	\$47,800.00
All-Ways Contractors, Inc.	\$48,874.00
D.C. Burbach, Inc.	\$53,528.75
Zenith Tech, Inc.	\$54,968.50
Forward Contractors	\$60,163.92

T.P. Concrete Inc. submitted the low bid in the amount of \$46,885.50. T.P. Concrete has been the prime contractor or a subcontractor on multiple previous projects within the Village of Jackson. Our evaluation of the experience, bid form, and bid bond for T.P. Concrete Inc. indicates that they are capable of completing the work required as shown in the contract documents. Therefore, if approved by the Board of Public Works and Village Board, we recommend the award of a contract for the Industrial Drive sidewalk project to T.P. Concrete Inc. in the amount of \$46,885.50.

Sincerely,

Jeffrey A. Chvosta, P.E.
Project Engineer
Gremmer & Associates, Inc.

Project ID: 160622
Industrial Drive Sidewalk
STH 60 - Tower Drive
Village of Jackson

Bid Tabulation
8/23/2016

Item No.	Description	Units	Total	TP Concrete, Inc.		Ptaschinski Const., Inc.		All-Ways Contractors	
				Unit Price	Bid Total	Unit Price	Bid Total	Unit Price	Bid Total
1	Clearing and Grubbing	LS	1	\$5,000.00	\$5,000.00	\$5,900.00	\$5,900.00	\$2,250.00	\$2,250.00
2	Removing Concrete	SY	60	\$12.00	\$720.00	\$9.00	\$540.00	\$10.00	\$600.00
3	Excavation Common	CY	129	\$42.00	\$5,418.00	\$40.00	\$5,160.00	\$59.50	\$7,675.50
4	Base Aggregate Dense 3/4-Inch	TON	210	\$15.00	\$3,150.00	\$15.00	\$3,150.00	\$28.40	\$5,964.00
5	Concrete Driveway 6-Inch	SY	90	\$45.00	\$4,050.00	\$45.00	\$4,050.00	\$45.00	\$4,050.00
6	Asphaltic Surface Driveways and Field Entrances	TON	4	\$220.00	\$880.00	\$100.00	\$400.00	\$350.00	\$1,400.00
7	Concrete Sidewalk 4-Inch	SF	4650	\$3.45	\$16,042.50	\$4.02	\$18,693.00	\$3.45	\$16,042.50
8	Concrete Sidewalk 6-Inch	SF	50	\$5.00	\$250.00	\$5.00	\$250.00	\$5.00	\$250.00
9	Lawn Restoration	SY	1030	\$7.50	\$7,725.00	\$6.90	\$7,107.00	\$6.90	\$7,107.00
10	Inlet Protection Type C	EACH	4	\$85.00	\$340.00	\$80.00	\$320.00	\$80.00	\$320.00
11	Traffic Control	LS	1	\$1,600.00	\$1,600.00	\$1,500.00	\$1,500.00	\$1,390.00	\$1,390.00
12	Sawing Asphalt	LF	65	\$4.00	\$260.00	\$2.00	\$130.00	\$5.00	\$325.00
13	Sawing Curb Head	LF	10	\$50.00	\$500.00	\$25.00	\$250.00	\$50.00	\$500.00
14	Adjusting Sanitary Sewer Manhole	EACH	1	\$950.00	\$950.00	\$350.00	\$350.00	\$1,000.00	\$1,000.00
				TOTAL	\$46,885.50	TOTAL	\$47,800.00	TOTAL	\$48,874.00

Item No.	Description	Units	Total	DC Burbach, Inc.		Zenith Tech, Inc.		Forward Contractors	
				Unit Price	Bid Total	Unit Price	Bid Total	Unit Price	Bid Total
1	Clearing and Grubbing	LS	1	\$5,485.00	\$5,485.00	\$3,500.00	\$3,500.00	\$5,600.00	\$5,600.00
2	Removing Concrete	SY	60	\$10.00	\$600.00	\$12.00	\$720.00	\$14.00	\$840.00
3	Excavation Common	CY	129	\$34.75	\$4,482.75	\$34.00	\$4,386.00	\$49.28	\$6,357.12
4	Base Aggregate Dense 3/4-Inch	TON	210	\$15.50	\$3,255.00	\$26.00	\$5,460.00	\$28.37	\$5,957.70
5	Concrete Driveway 6-Inch	SY	90	\$54.60	\$4,914.00	\$52.00	\$4,680.00	\$48.31	\$4,347.90
6	Asphaltic Surface Driveways and Field Entrances	TON	4	\$785.00	\$3,140.00	\$350.00	\$1,400.00	\$250.00	\$1,000.00
7	Concrete Sidewalk 4-Inch	SF	4650	\$3.70	\$17,205.00	\$4.65	\$21,622.50	\$4.61	\$21,436.50
8	Concrete Sidewalk 6-Inch	SF	50	\$5.00	\$250.00	\$4.85	\$242.50	\$5.37	\$268.50
9	Lawn Restoration	SY	1030	\$7.40	\$7,622.00	\$8.25	\$8,497.50	\$9.54	\$9,826.20
10	Inlet Protection Type C	EACH	4	\$100.00	\$400.00	\$75.00	\$300.00	\$100.00	\$400.00
11	Traffic Control	LS	1	\$4,200.00	\$4,200.00	\$2,700.00	\$2,700.00	\$2,580.00	\$2,580.00
12	Sawing Asphalt	LF	65	\$5.00	\$325.00	\$4.00	\$260.00	\$10.00	\$650.00
13	Sawing Curb Head	LF	10	\$65.00	\$650.00	\$45.00	\$450.00	\$40.00	\$400.00
14	Adjusting Sanitary Sewer Manhole	EACH	1	\$1,000.00	\$1,000.00	\$750.00	\$750.00	\$500.00	\$500.00
				TOTAL	\$53,528.75	TOTAL	\$54,968.50	TOTAL	\$60,163.92

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 21



VILLAGE OF JACKSON

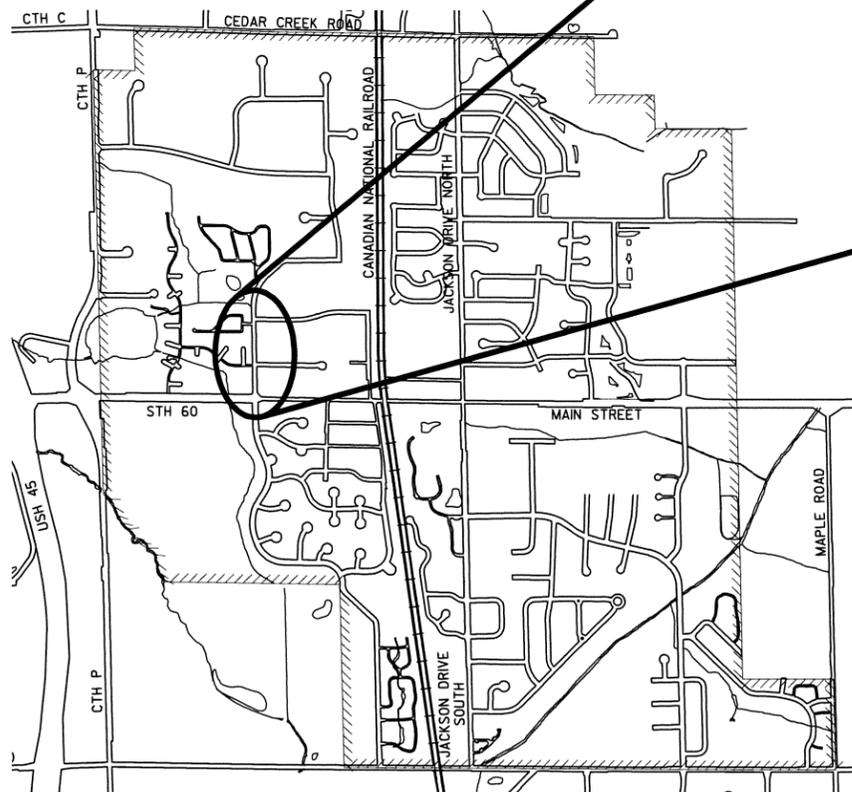
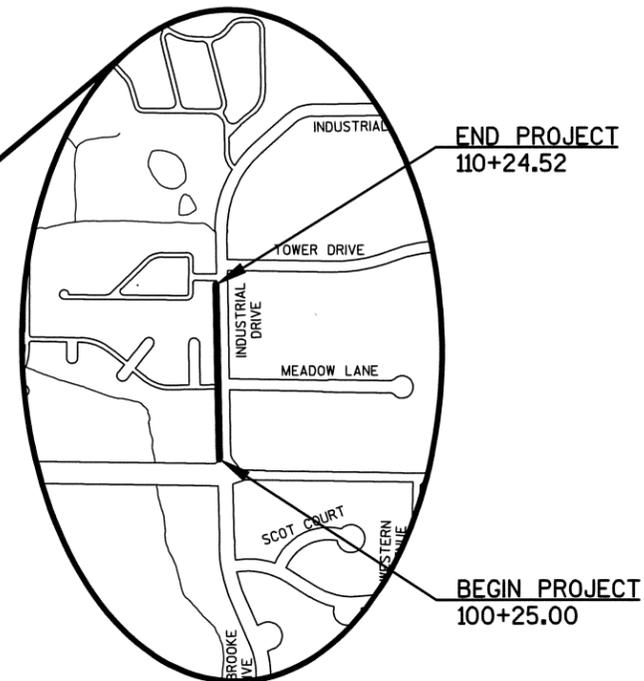
PLAN OF PROPOSED IMPROVEMENT

INDUSTRIAL DRIVE SIDEWALK

STH 60 - TOWER DRIVE

2016

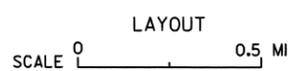
PROJECT 160622



CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



TOTAL NET LENGTH OF CENTERLINE = 0.189 MI

ORIGINAL PLANS PREPARED BY

GREMMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 Stevens Point • Fond du Lac
 93 South Pioneer Road, Suite 300 • Fond du Lac, WI 54935
 (920) 924-5720 • fax (920) 924-5725



8/9/16
 (Date) *Jeffrey A. Chvosta*
 JEFFREY A. CHVOSTA, PE

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

A VERTICAL SAW CUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS, SIDEWALKS AND PAVEMENTS AT THE REMOVAL LIMITS.

SAWCUT LOCATIONS SHOWN ON THE PLANS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC PAVEMENT SHALL BE MEASURED AND PAID FOR AS EXCAVATION COMMON.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE DENSE, HMA PAVEMENT OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE MATERIAL SHOWN ON THE PLAN IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND LAYOUT OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

TOPSOIL, FERTILIZER, SEED AND MULCH AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS, ENTRANCES, AND RELATED STRUCTURES.

SECTIONS AS SHOWN ON THE CROSS-SECTIONS INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED.

ALL CURB RAMPS SHALL BE 6-INCH THICK AND PAID FOR AS CONCRETE SIDEWALK 6-INCH.

EROSION CONTROL ITEMS SHOWN ARE APPROXIMATE, THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
AH	AHEAD
ASP	ASPHALT
BK	BACK
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
CC	CENTER OF CURVATURE
CE	COMMERCIAL ENTRANCE
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CS	CURVE SPIRAL, THE POINT OF CHANGE IN ALIGNMENT FROM CURVE TO SPIRAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
E	EXTERNAL DISTANCE FROM MIDPOINT OF CIRCULAR CURVE FROM ANGLE INTERSECTION
EB	EASTBOUND
ELEV	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HT	HEIGHT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LP	LOW POINT
Ls	LENGTH OF SPIRAL
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
NOM	NOMINAL
NORM	NORMAL
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SC	SPIRAL CURVE, THE POINT OF CHANGE IN ALIGNMENT FROM SPIRAL TO CURVE
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SEG	SEGMENT
SF	SQUARE FOOT
SS	STORM SEWER
ST	SPIRAL TANGENT, THE POINT OF CHANGE IN ALIGNMENT FROM SPIRAL TO TANGENT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TS	TANGENT SPIRAL, THE POINT OF CHANGE IN ALIGNMENT FROM TANGENT TO SPIRAL
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VC	VERTICAL CURVE
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPRC	POINT OF VERTICAL REVERSE CURVE
VPT	POINT OF VERTICAL TANGENT
WB	WESTBOUND
WCL	WISCONSIN CENTRAL LTD.

UTILITIES

COMMUNICATIONS

* CHARTER COMMUNICATIONS
2312 CONTINENTAL DRIVE
WEST BEND, WI 53095
PHONE: (262) 306-8756 EXT. 20702
MOBILE: (920) 375-6194
ATTN: TOM HARYCKI
EMAIL: THARYCKI@CHARTERCOM.COM

COMMUNICATIONS

* AT&T - WISCONSIN
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
PHONE: (262) 896-7522
MOBILE: (414) 412-7047
ATTN: JEFF OLDENBURG
EMAIL: J02376@ATT.COM

SANITARY SEWER & WATER MAIN

* VILLAGE OF JACKSON
N168, W20733 MAIN STREET
JACKSON, WI 53037
PHONE: (262) 677-9001
ATTN: BRIAN KOBER
EMAIL: DIRPUBWKS@VILLAGEOFJACKSON.COM

* DENOTES MEMBER OF DIGGERS HOTLINE

ELECTRIC

* WE ENERGIES - LOCAL
245 SAND DRIVE
WEST BEND, WI 53095
PHONE: (262) 338-7662
MOBILE: (262) 322-1824
ATTN: AL SCHMITT
EMAIL: ALAN.SCHMITT@WE-ENERGIES.COM

GAS

* WE ENERGIES - LOCAL
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 218-2053
ATTN: JOSH MOUNT
EMAIL: JOSH.MOUNT@WE-ENERGIES.COM



DESIGN CONTACT

GREMMER & ASSOCIATES, INC.
93 S. PIONEER ROAD, SUITE 300
FOND DU LAC, WI 54935
PHONE: (920) 924-5720
ATTN: JEFFREY CHVOSTA, PE
EMAIL: J.CHVOSTA@GREMMERASSOCIATES.COM

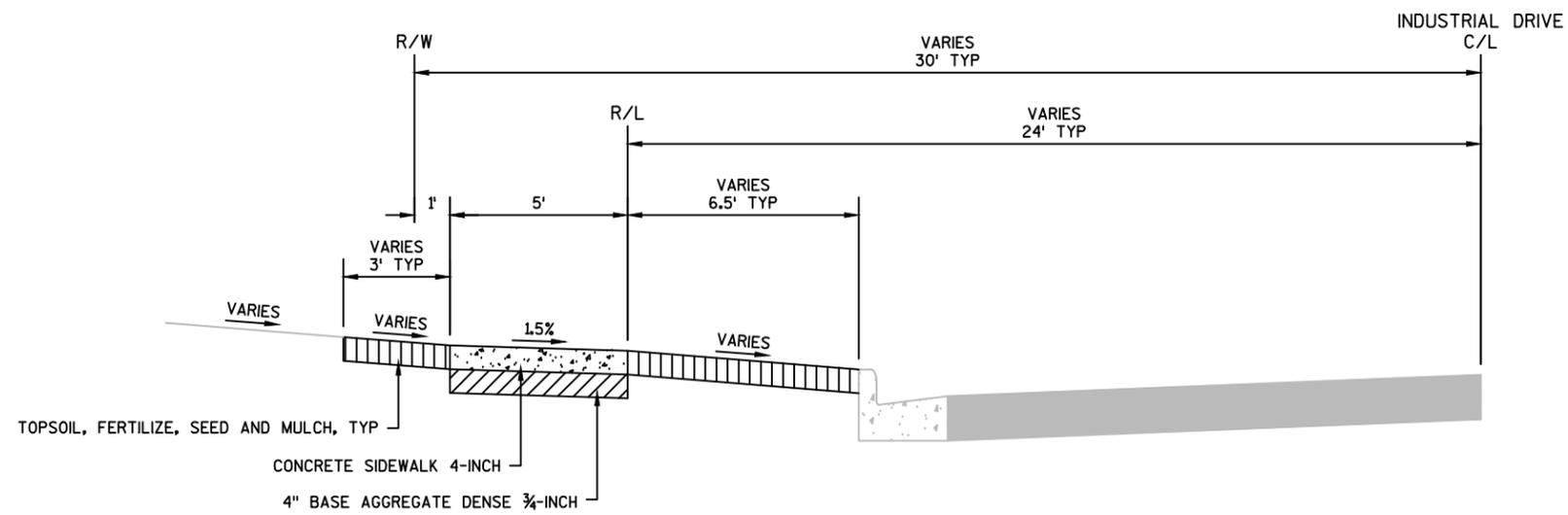
VILLAGE OF JACKSON CONTACT

N168, W20733 MAIN STREET
JACKSON, WI 53037
PHONE: (262) 677-9001
ATTN: BRIAN KOBER
EMAIL: DIRPUBWKS@VILLAGEOFJACKSON.COM

BENCH MARKS

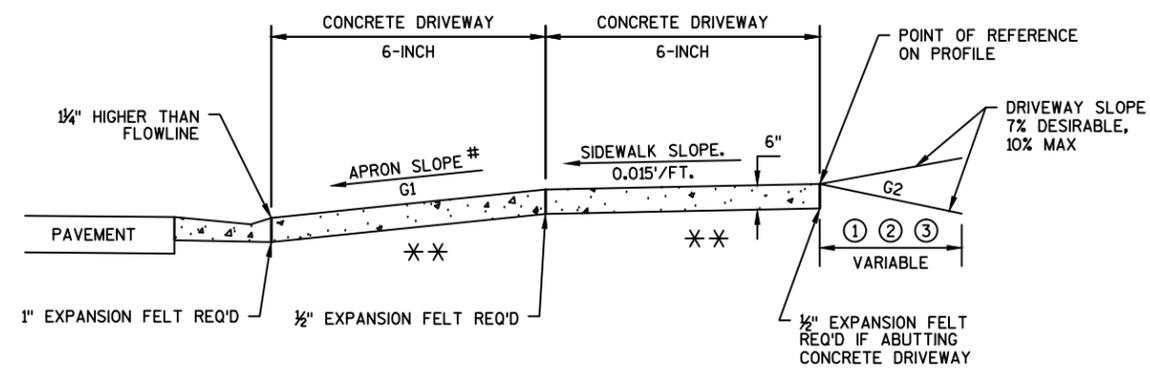
BM	DESCRIPTION	ELEVATION
B	SE BOLT ON FLANGE OF HYD, NE CORNER OF INDUSTRIAL DRIVE AND STH 60	875.78
C	NE BOLT OF FLANGE OF HYD, SE CORNER OF INDUSTRIAL DRIVE AND MEADOW LANE	872.90
D	CHISELED X ON BOLT OF FLANGE OF HYD, E. SIDE OF INDUSTRIAL DRIVE, N. OF MEADOW LANE	872.43
D-2	BURY BOLT ON FLANGE OF HYD, SE CORNER OF INDUSTRIAL DRIVE AND TOWER DRIVE	874.40

**VERTICAL DATUM REFERENCED TO NGVD29.



FINISHED TYPICAL HALF SECTION

INDUSTRIAL DRIVE SIDEWALK
STA 100+25.00 - STA 110+24.52



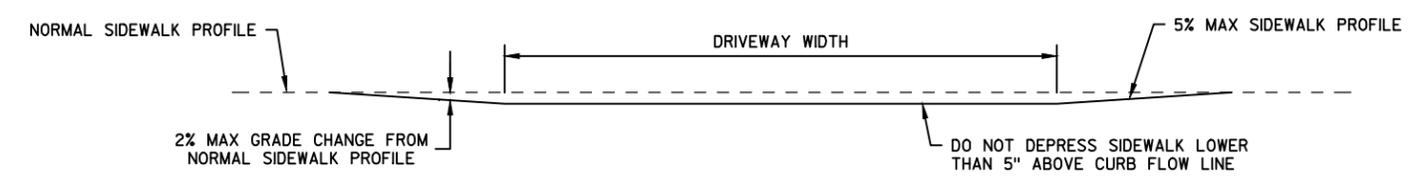
- ① - 6" CONCRETE DRIVEWAY
- ② - 6" BASE AGG. DENSE 3/4-INCH
- ③ - 6" BASE AGG. DENSE 3/4-INCH BASE WITH 3" ASPHALTIC SURFACE
- * * = 6" BASE AGG. DENSE 3/4-INCH REQ'D UNDER CONCRETE DRWY

TERRACE WIDTH	APRON SLOPE (G)		
	MIN %	DESIRABLE %	MAX %
3 FT	7.0	8.5	9.0
4 FT	5.0	7.0	9.0
5 FT	4.0	7.0	9.0
6 FT	4.0	7.0	9.0
7 FT	3.5	7.0	9.0
8 FT	3.0	7.0	9.0

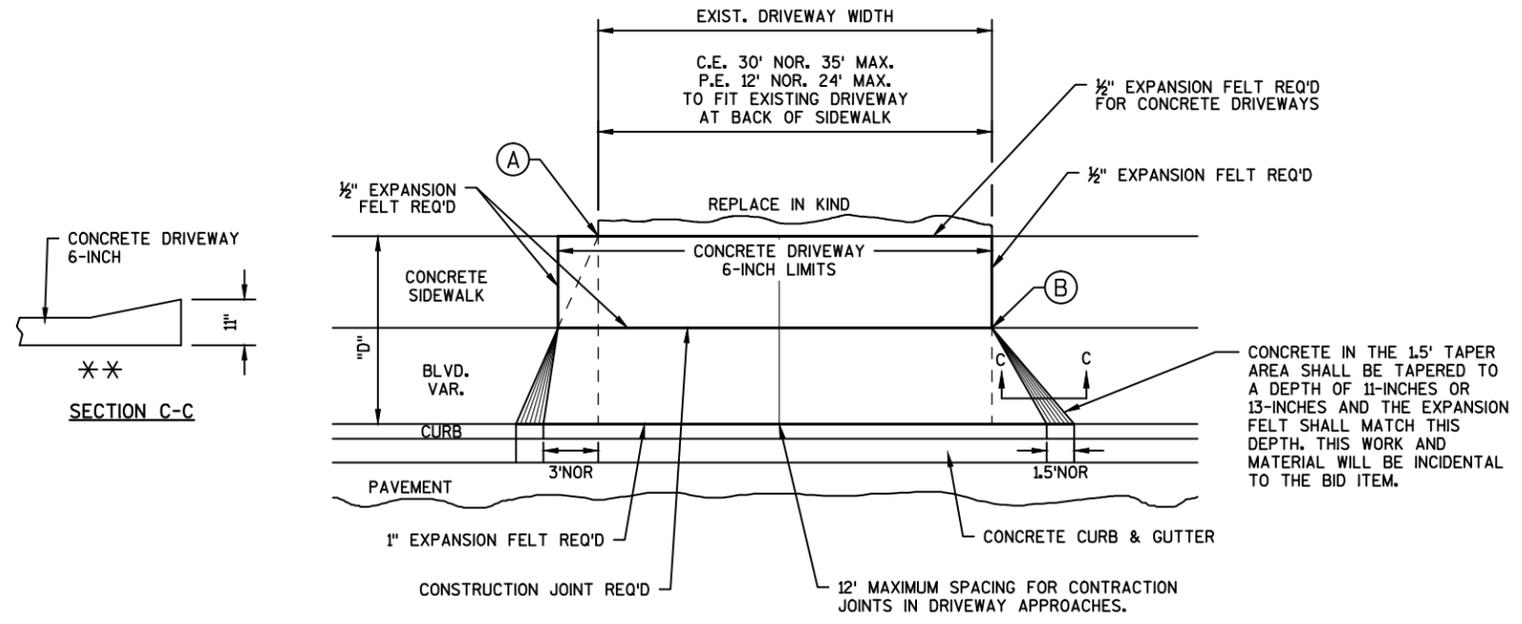
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE

TYPICAL SIDEWALK SECTION



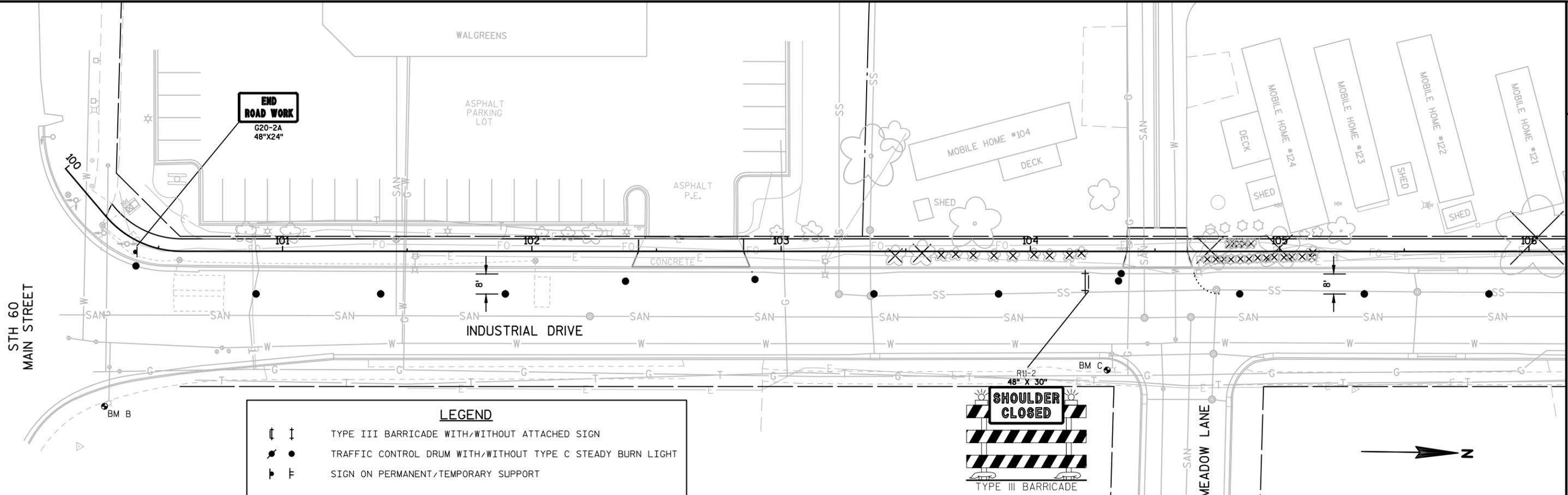
DEPRESSED SIDEWALK PROFILE DETAIL



- (A) WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK
- (B) WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF SIDEWALK

PLAN VIEW

URBAN ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER



LEGEND

- ⊥ ⊥ TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- ● TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- ⊥ ⊥ SIGN ON PERMANENT/TEMPORARY SUPPORT



TRAFFIC CONTROL GENERAL NOTES

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. SEE SDD'S FOR ADDITIONAL INFORMATION AND THE PLACEMENT AND SPACING OF DRUMS AND SIGNS. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON METHODS OF SEQUENCE OF OPERATION.

LANE CLOSURES AND DRUMS SHALL BE ADJUSTED FOR AND LIMITED TO AREAS OF WORK ON A DAILY BASIS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

ADJUST SIGN SPACING TO AVOID CONFLICT WITH AND TO PROVIDE MINIMUM SPACING OF 200 FEET (500 FEET DESIRABLE) TO EXISTING SIGNS.

UNLESS NOTED, ALL WARNING SIGNS ARE 48"X48". ALL OTHER SIGNS ARE SIZE 2S.

"WO" AND "MO" ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

REMOVE OR COVER ANY TEMPORARY OR EXISTING SIGNS THAT CONFLICT WITH "IN USE" TRAFFIC CONTROL.

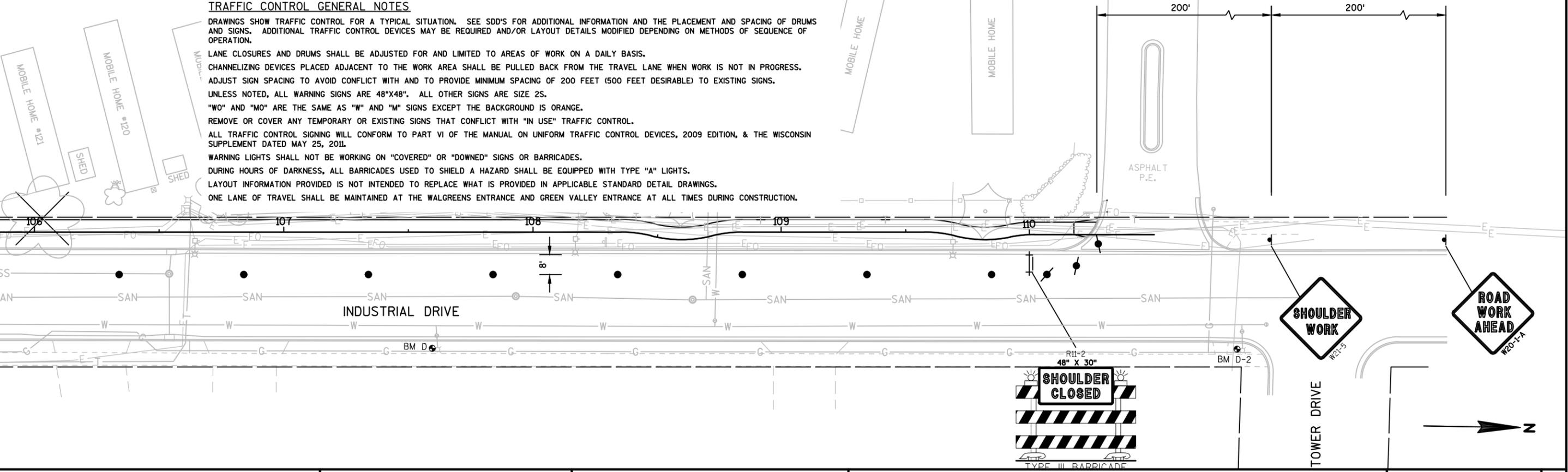
ALL TRAFFIC CONTROL SIGNING WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, & THE WISCONSIN SUPPLEMENT DATED MAY 25, 2011.

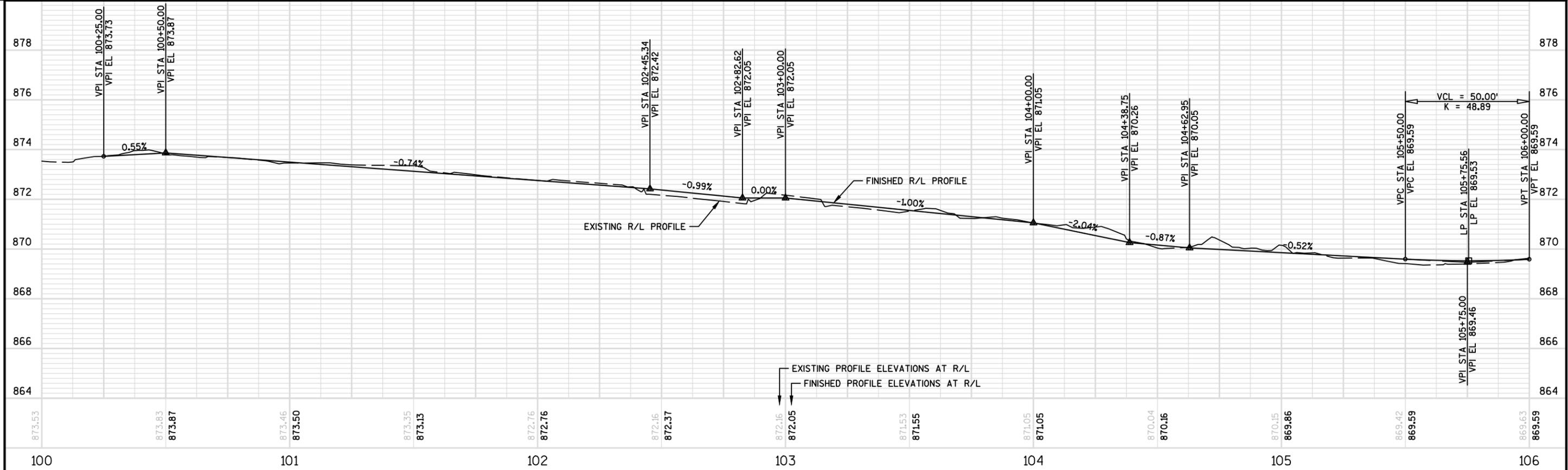
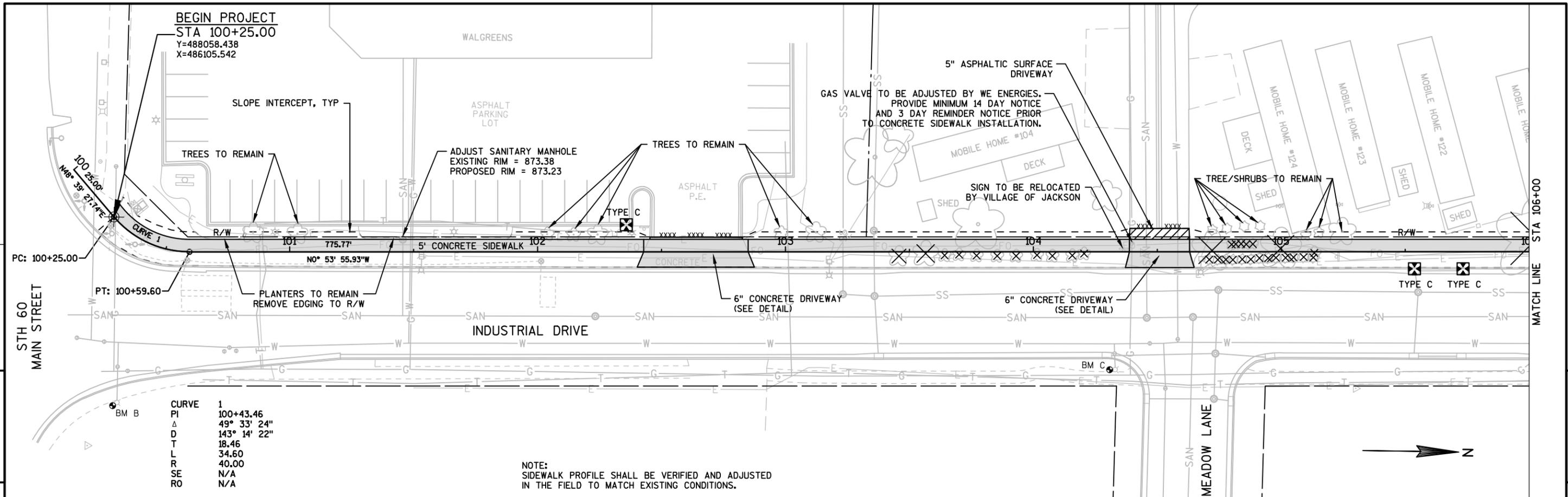
WARNING LIGHTS SHALL NOT BE WORKING ON "COVERED" OR "DOWNED" SIGNS OR BARRICADES.

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" LIGHTS.

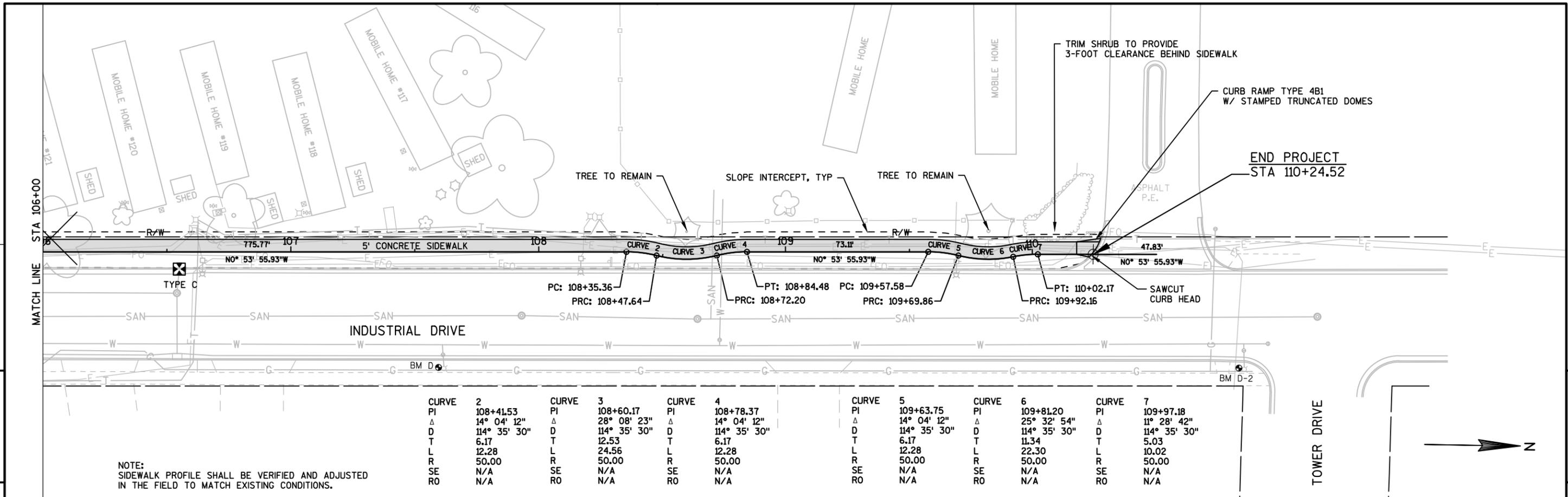
LAYOUT INFORMATION PROVIDED IS NOT INTENDED TO REPLACE WHAT IS PROVIDED IN APPLICABLE STANDARD DETAIL DRAWINGS.

ONE LANE OF TRAVEL SHALL BE MAINTAINED AT THE WALGREENS ENTRANCE AND GREEN VALLEY ENTRANCE AT ALL TIMES DURING CONSTRUCTION.



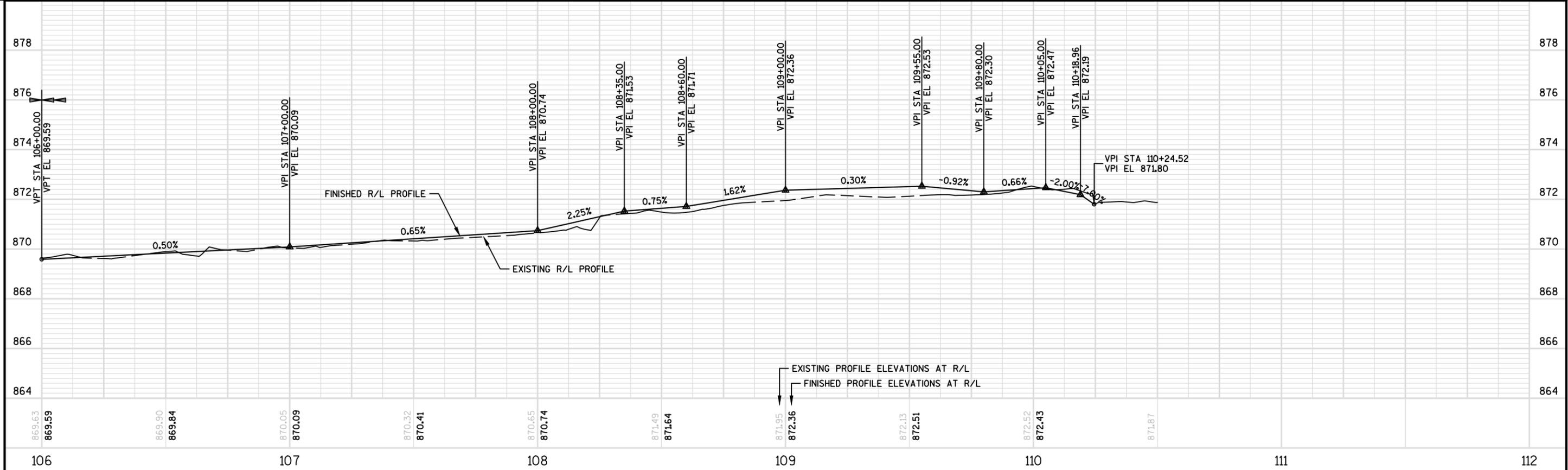


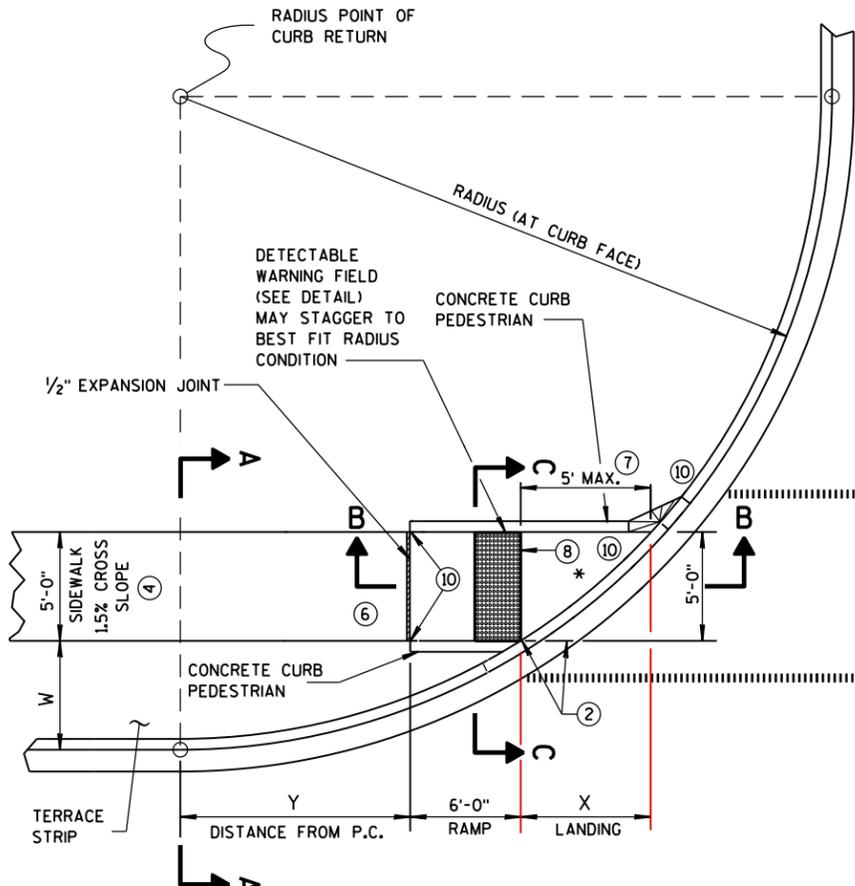
PROJECT NO: 160622 INDUSTRIAL DRIVE SIDEWALK VILLAGE OF JACKSON PLAN AND PROFILE: SHEET E



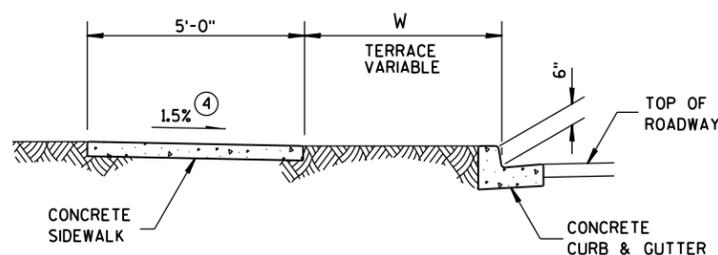
CURVE	PI	Δ	D	T	L	R	SE	RO
CURVE 2	108+41.53	14° 04' 12"	114° 35' 30"	6.17	12.28	50.00	N/A	N/A
CURVE 3	108+60.17	28° 08' 23"	114° 35' 30"	12.53	24.56	50.00	N/A	N/A
CURVE 4	108+78.37	14° 04' 12"	114° 35' 30"	6.17	12.28	50.00	N/A	N/A
CURVE 5	109+63.75	14° 04' 12"	114° 35' 30"	6.17	12.28	50.00	N/A	N/A
CURVE 6	109+81.20	25° 32' 54"	114° 35' 30"	11.34	22.30	50.00	N/A	N/A
CURVE 7	109+97.18	11° 28' 42"	114° 35' 30"	5.03	10.02	50.00	N/A	N/A

NOTE:
SIDEWALK PROFILE SHALL BE VERIFIED AND ADJUSTED
IN THE FIELD TO MATCH EXISTING CONDITIONS.

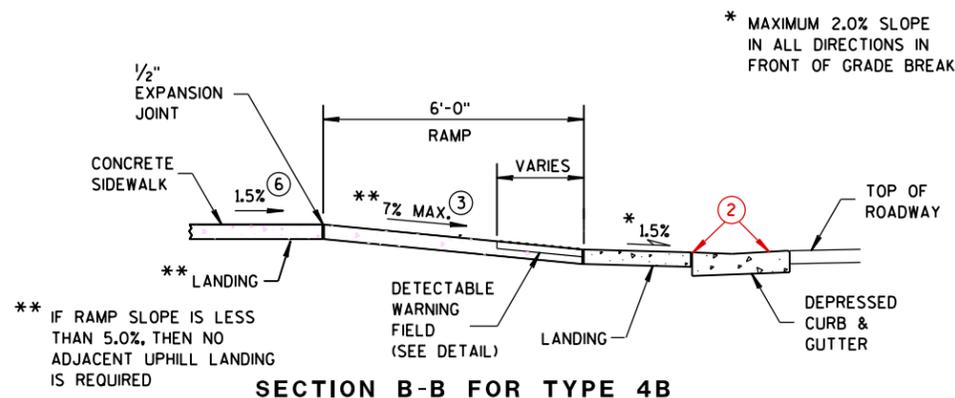




**CURB RAMP TYPE 4B
PLAN VIEW**



SECTION A-A FOR TYPE 4B



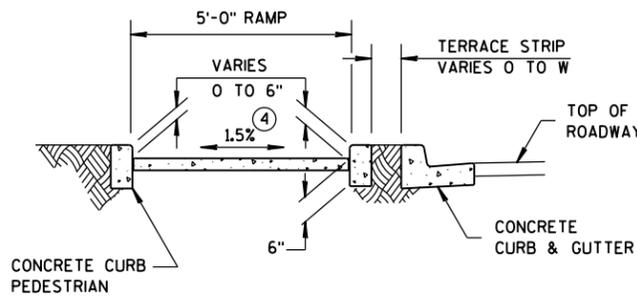
SECTION B-B FOR TYPE 4B

- LEGEND**
- 1/2" EXPANSION JOINT-SIDEWALK
 - CONTRACTION JOINT FIELD LOCATED
 - PAVEMENT MARKING CROSSWALK (WHITE)

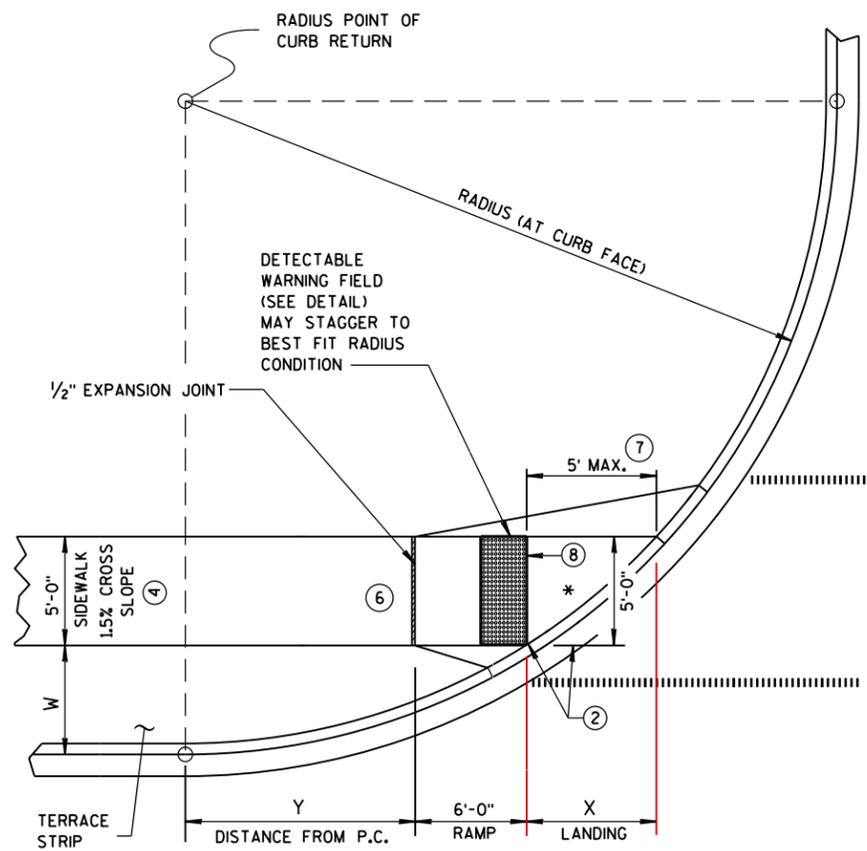
RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-9 3/4"	3'-6 1/2"	4'-11 1/2"	5'-1 3/4"	4'-3 1/4"	6'-5 1/2"	3'-8 3/4"	7'-6 3/4"	3'-3"	8'-6 1/4"
30 FEET	7'-9 1/4"	5'-10 1/2"	6'-9 1/2"	7'-11 1/4"	6'-0 1/4"	9'-8"	5'-5"	11'-1 3/4"	4'-10 3/4"	12'-5 3/4"
40 FEET	9'-4"	7'-10"	8'-2 3/4"	10'-3"	7'-4 3/4"	12'-3 3/4"	6'-8 1/2"	14'-1 1/4"	6'-1 3/4"	15'-8 1/2"
50 FEET	10'-8"	9'-6 1/2"	9'-5 1/2"	12'-3 1/4"	8'-6 1/2"	14'-7 1/2"	7'-9 3/4"	16'-8 1/4"	7'-2 1/2"	18'-6 1/4"
60 FEET	11'-10 1/4"	11'-0 3/4"	10'-6 1/2"	14'-1 1/4"	9'-6 1/2"	16'-8 1/2"	8'-9 1/4"	18'-11 3/4"	8'-1 1/2"	21'-0 1/2"

GENERAL NOTES

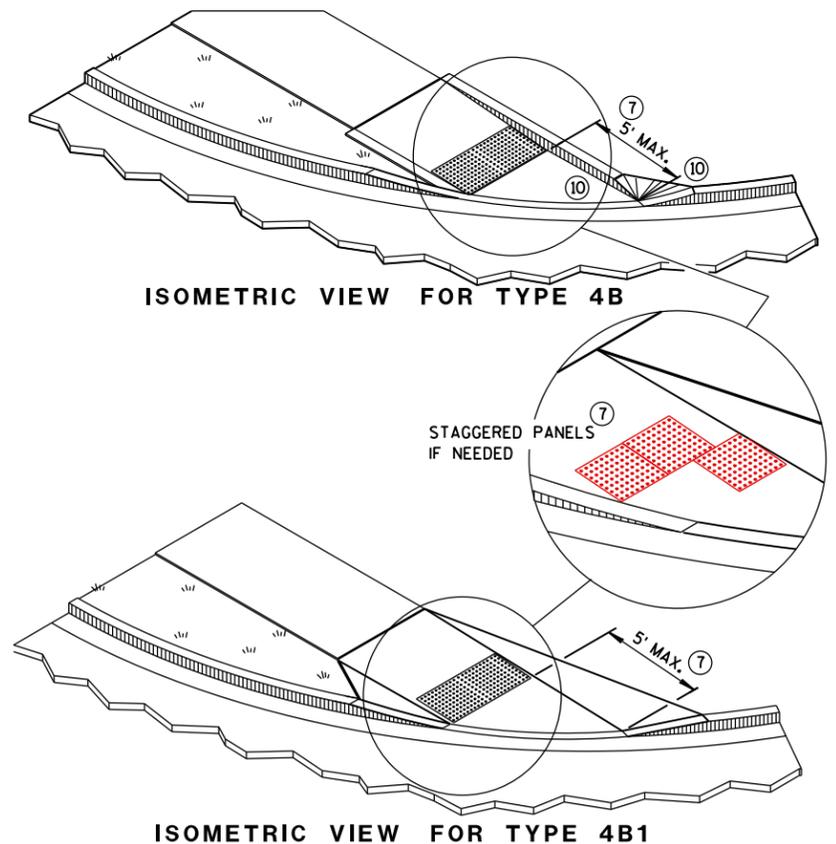
- INTERMEDIATE RADII CAN BE INTERPOLATED
- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.
 - ③ ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
 - ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
 - ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).
 - ⑦ WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.
 - ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
 - ⑩ INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C-C FOR TYPE 4B



**CURB RAMP TYPE 4B1
PLAN VIEW**



ISOMETRIC VIEW FOR TYPE 4B

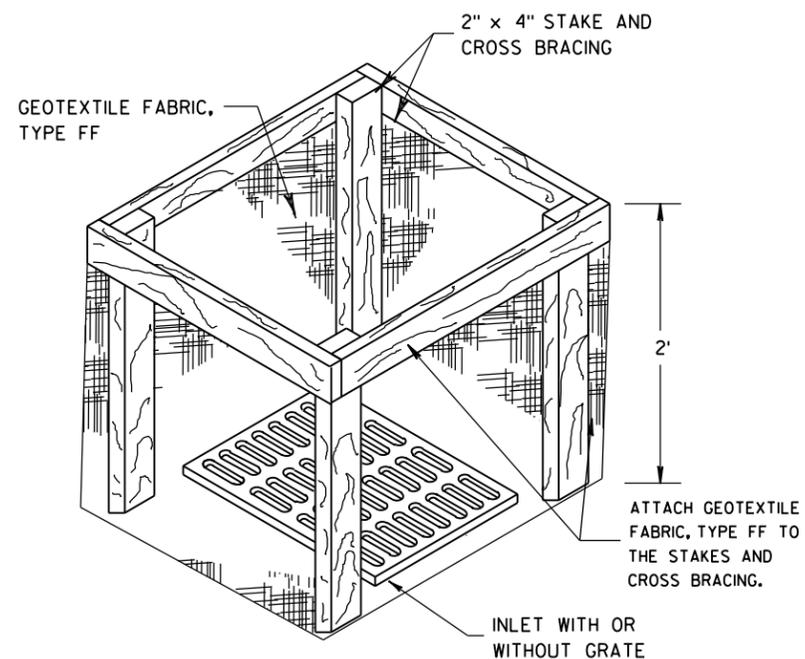
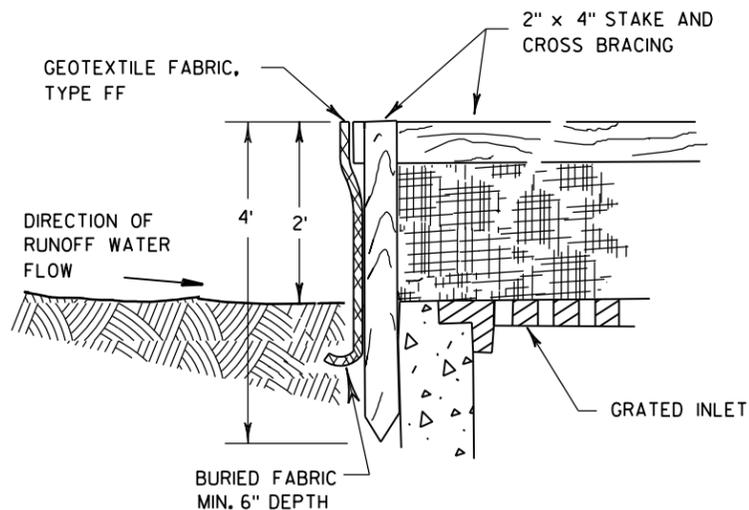
ISOMETRIC VIEW FOR TYPE 4B1

**CURB RAMPS
TYPE 4B AND 4B1**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



8E10: Inlet Protection Type A, B, C and D



INLET PROTECTION, TYPE A

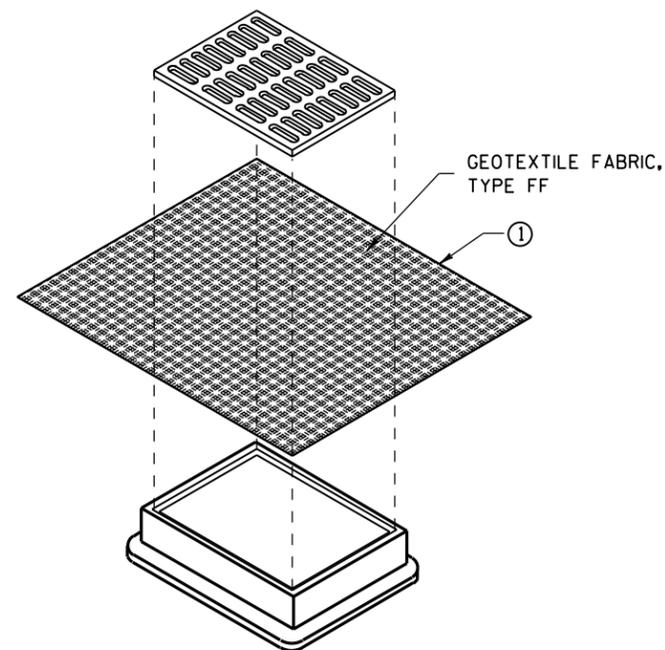
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

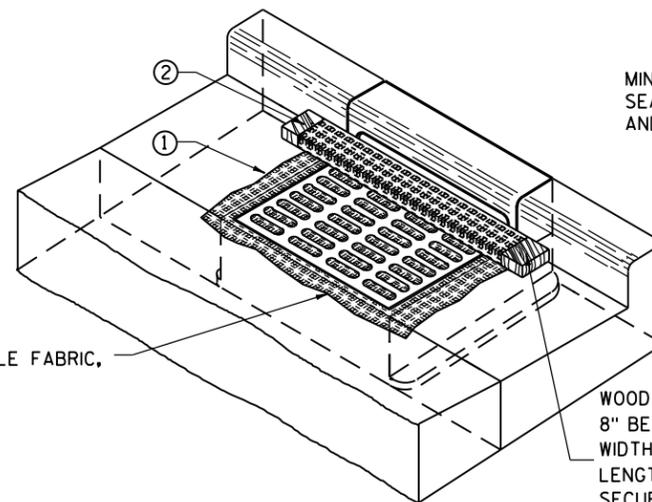
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

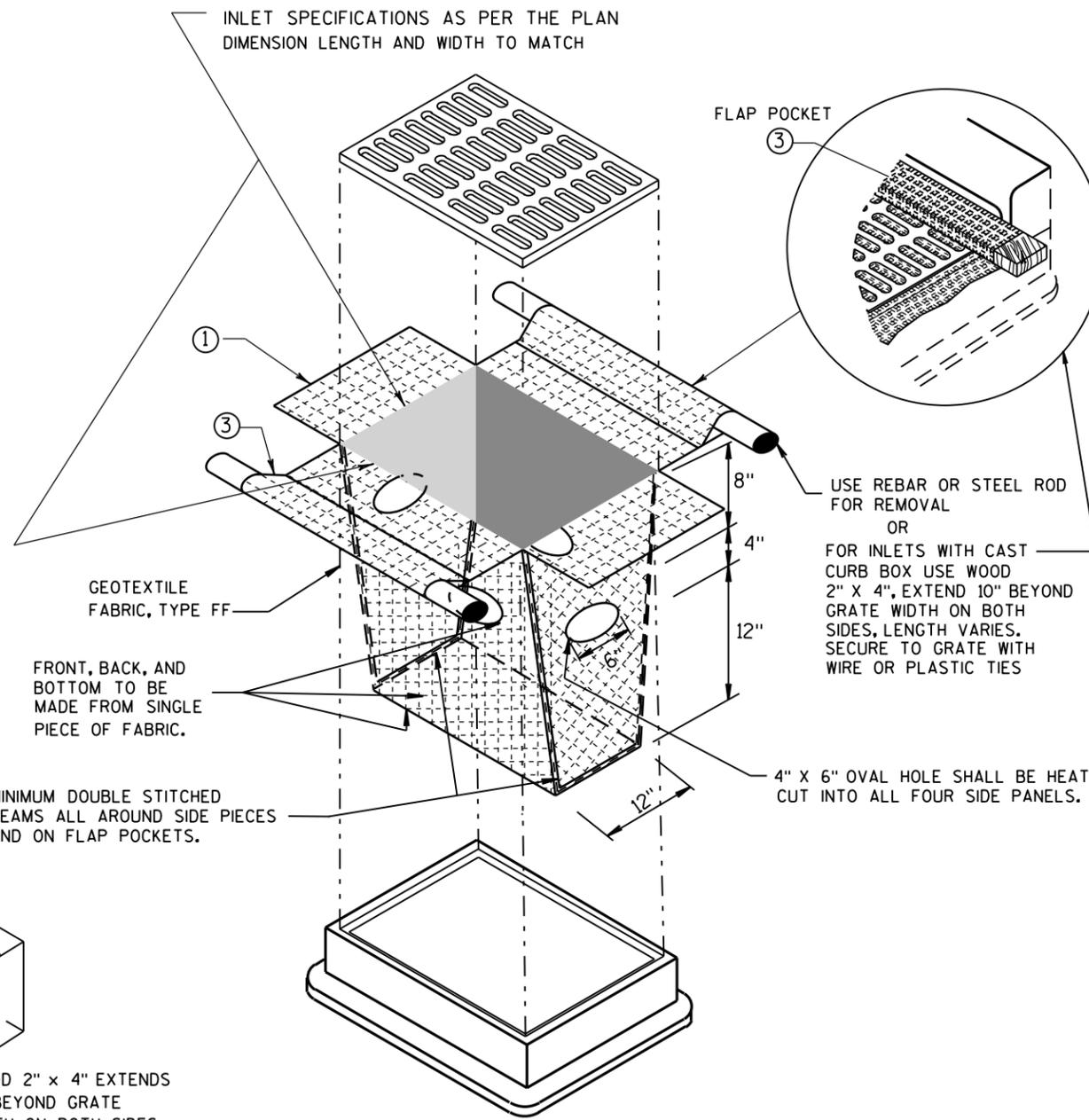
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-02 /S/ Beth Canestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



15D28: Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

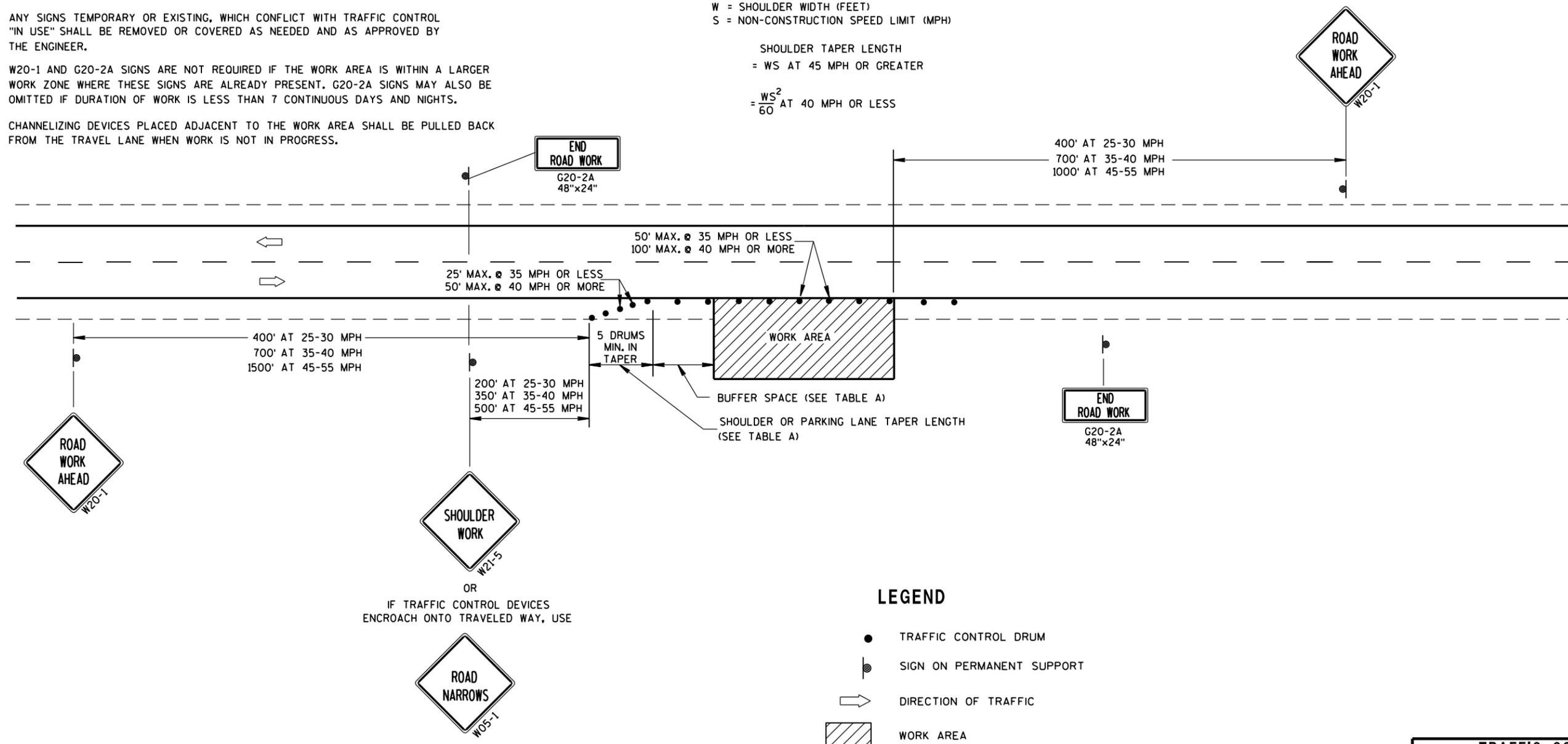
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S	SHOULDER TAPER LENGTH (FEET)				BUFFER SPACE (FEET)
	4	6	8	10	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER
= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ➔ DIRECTION OF TRAFFIC
- ▨ WORK AREA

6

6

S.D.D. 15 D 28-2

S.D.D. 15 D 28-2

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

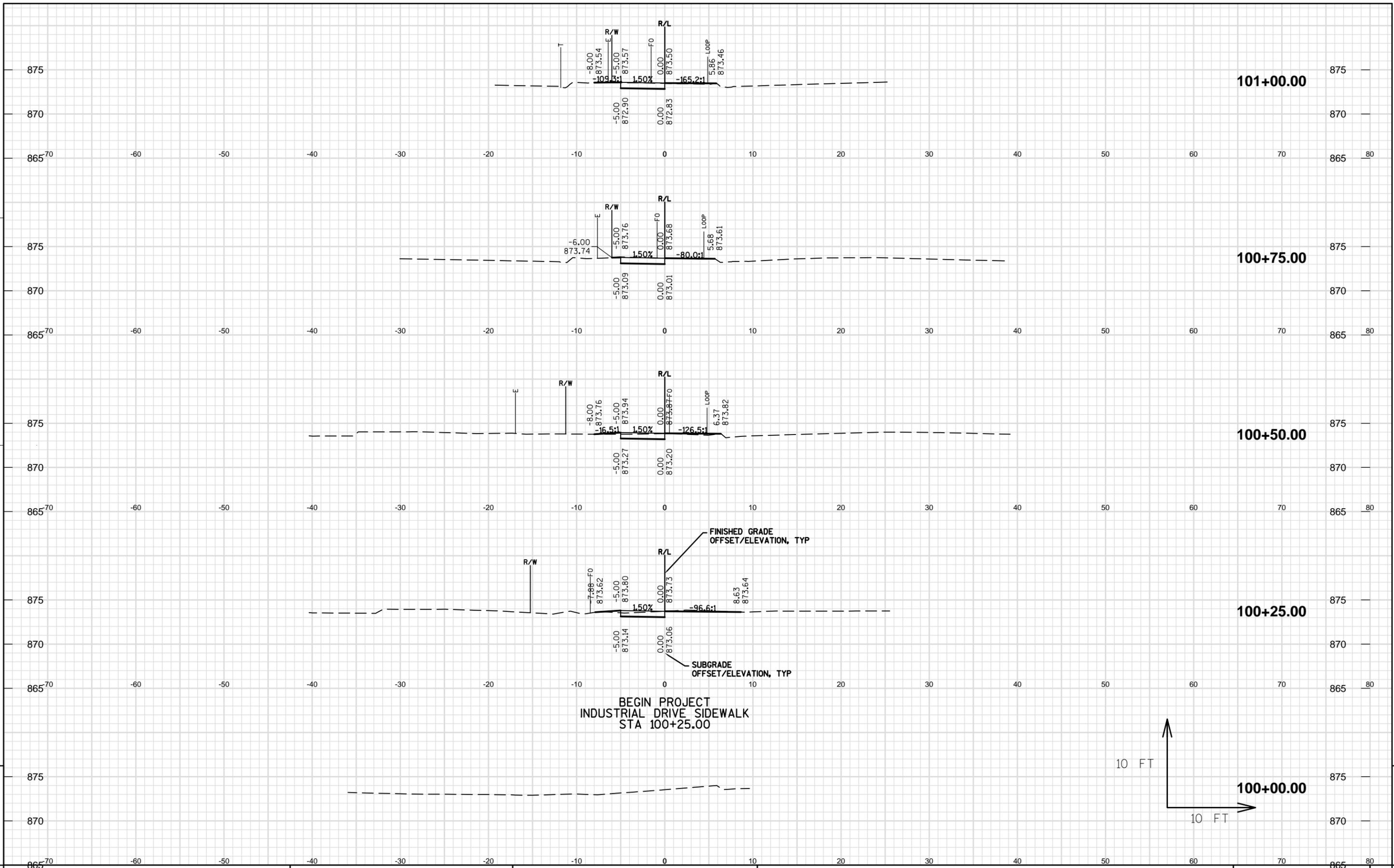
EARTHWORK SUMMARY

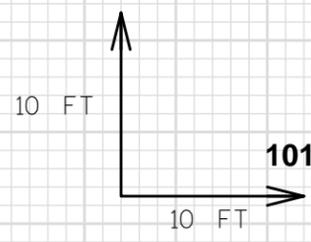
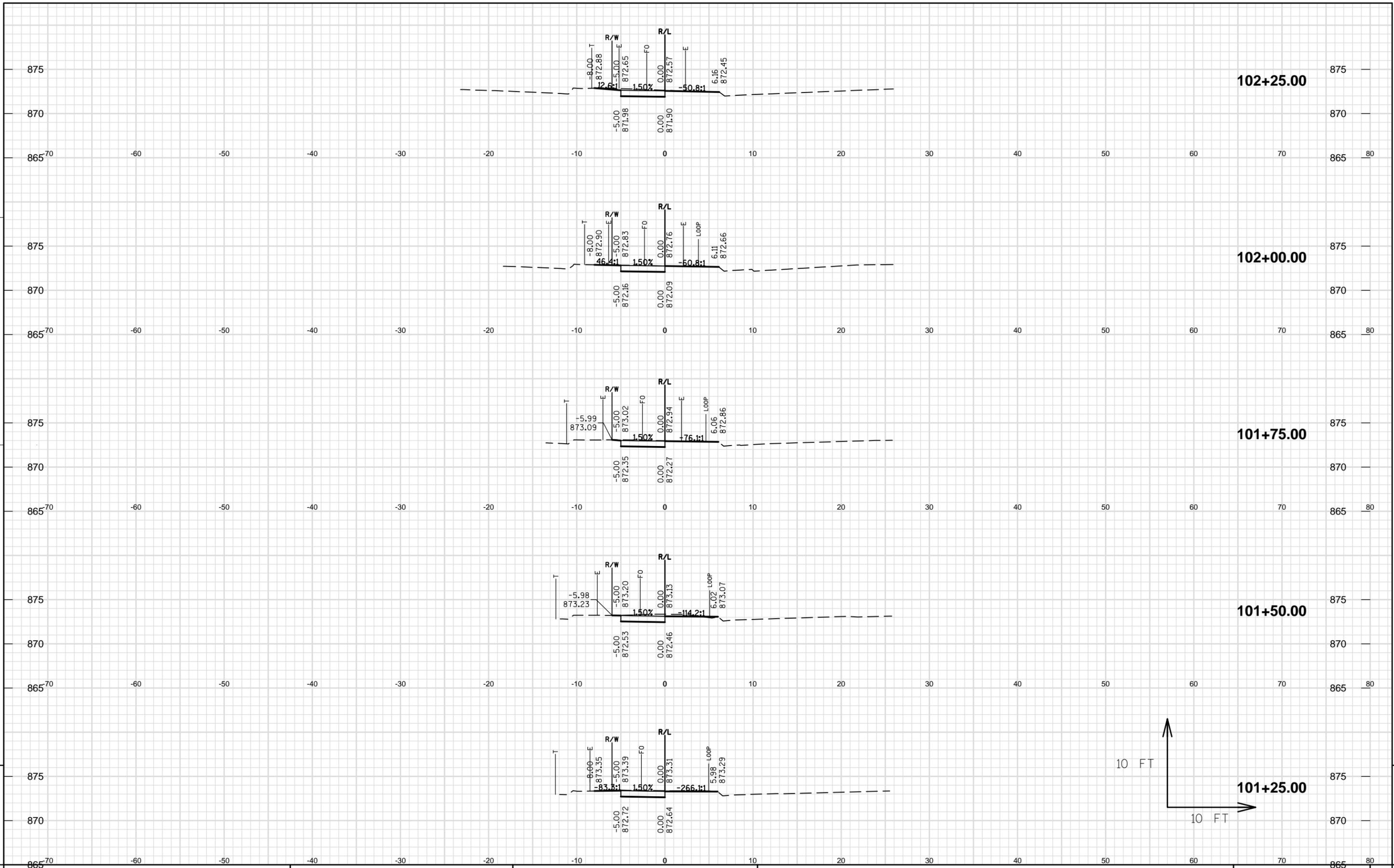
DIVISION	FROM/TO STATION	LOCATION	EXCAVATION COMMON (1) ITEM	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (3) FACTOR 1.25	MASS ORDINATE +/- (4)	WASTE	COMMENT:
			CUT						
DIVISION 1									
	100+00 - 110+25	INDUSTRIAL DRIVE	129	129	15	19	110	110	
	DIVISION 1 SUBTOTAL		129	129	15	19	110	110	
	GRAND TOTAL		129	129	15	19	110	110	
TOTAL EXCAVATION COMMON			129						

NOTES:

- 1 - EXCAVATION COMMON WILL BE PAID FOR AT THE CONTRACT PLAN QUANTITY.
- 2 - AVAILABLE MATERIAL = CUT
- 3 - EXPANDED FILL FACTOR = 1.25. EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
- 4 - THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

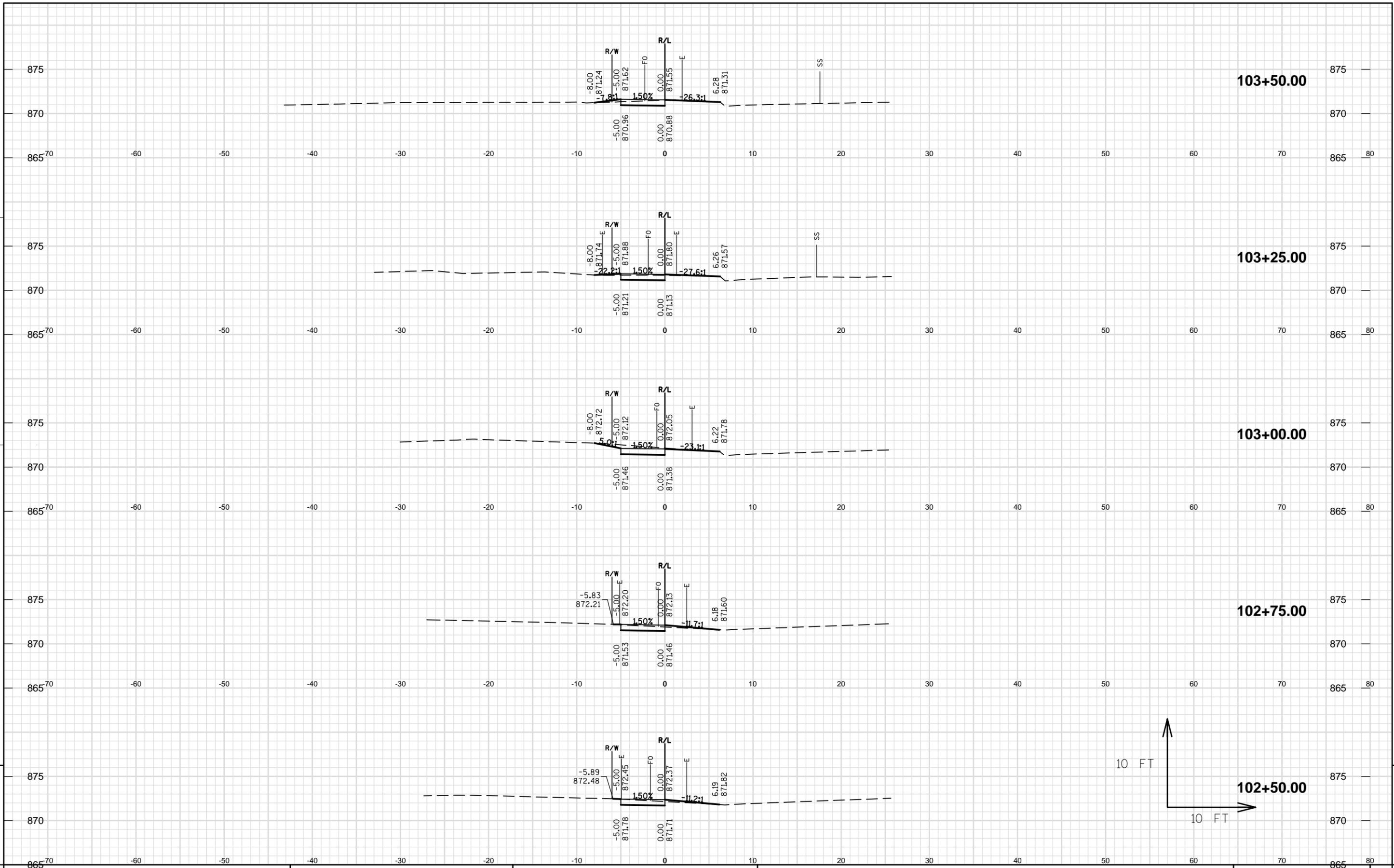
FOR INFORMATIONAL PURPOSES ONLY



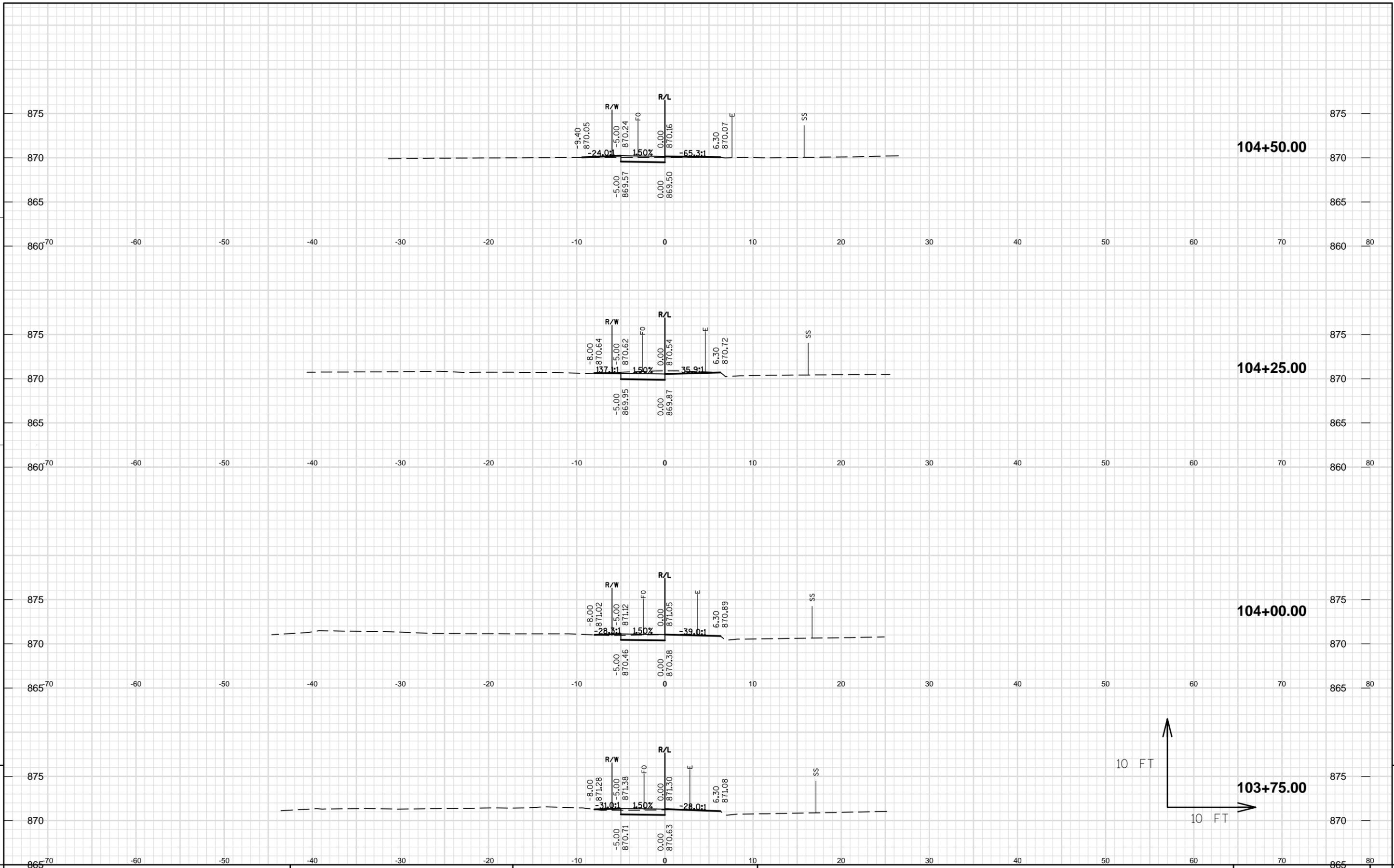


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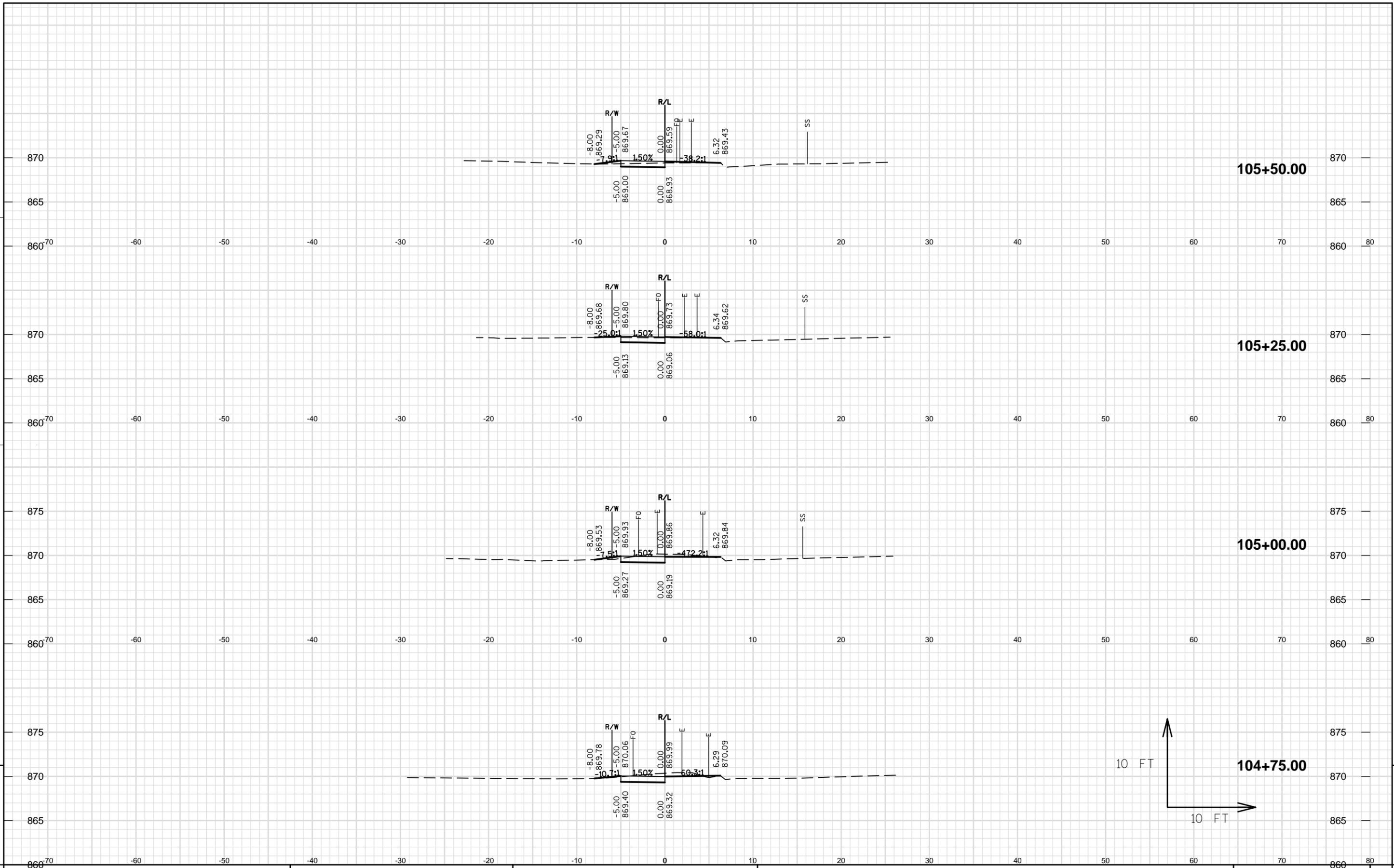
PROJECT NO:160622 INDUSTRIAL DRIVE SIDEWALK VILLAGE OF JACKSON CROSS SECTIONS: INDUSTRIAL DRIVE SHEET E



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PROJECT NO:160622 INDUSTRIAL DRIVE SIDEWALK VILLAGE OF JACKSON CROSS SECTIONS: INDUSTRIAL DRIVE SHEET E

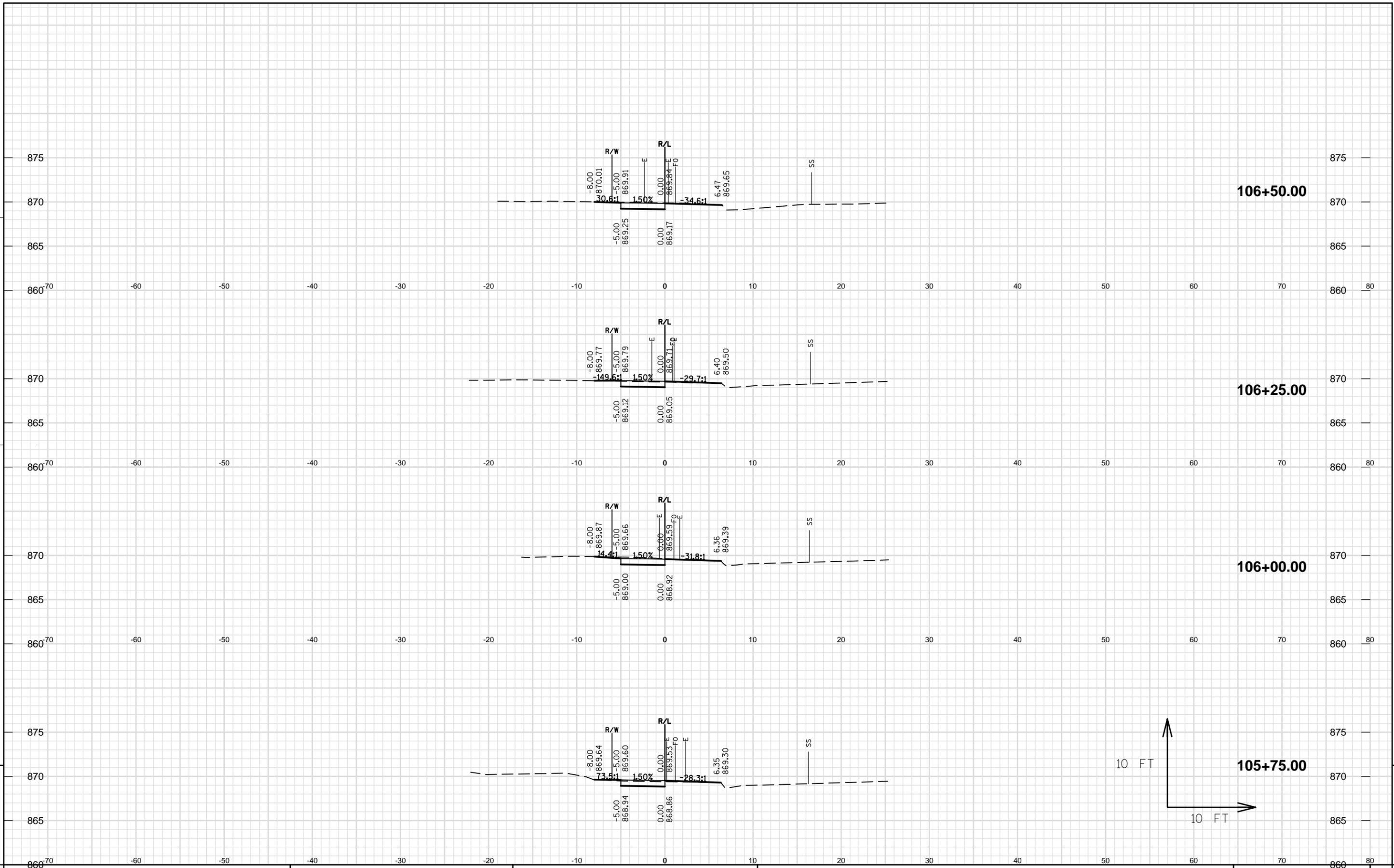


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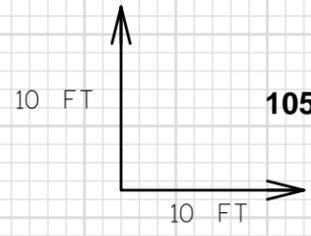
PROJECT NO:160622 INDUSTRIAL DRIVE SIDEWALK VILLAGE OF JACKSON CROSS SECTIONS: INDUSTRIAL DRIVE SHEET E

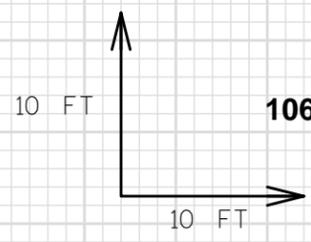
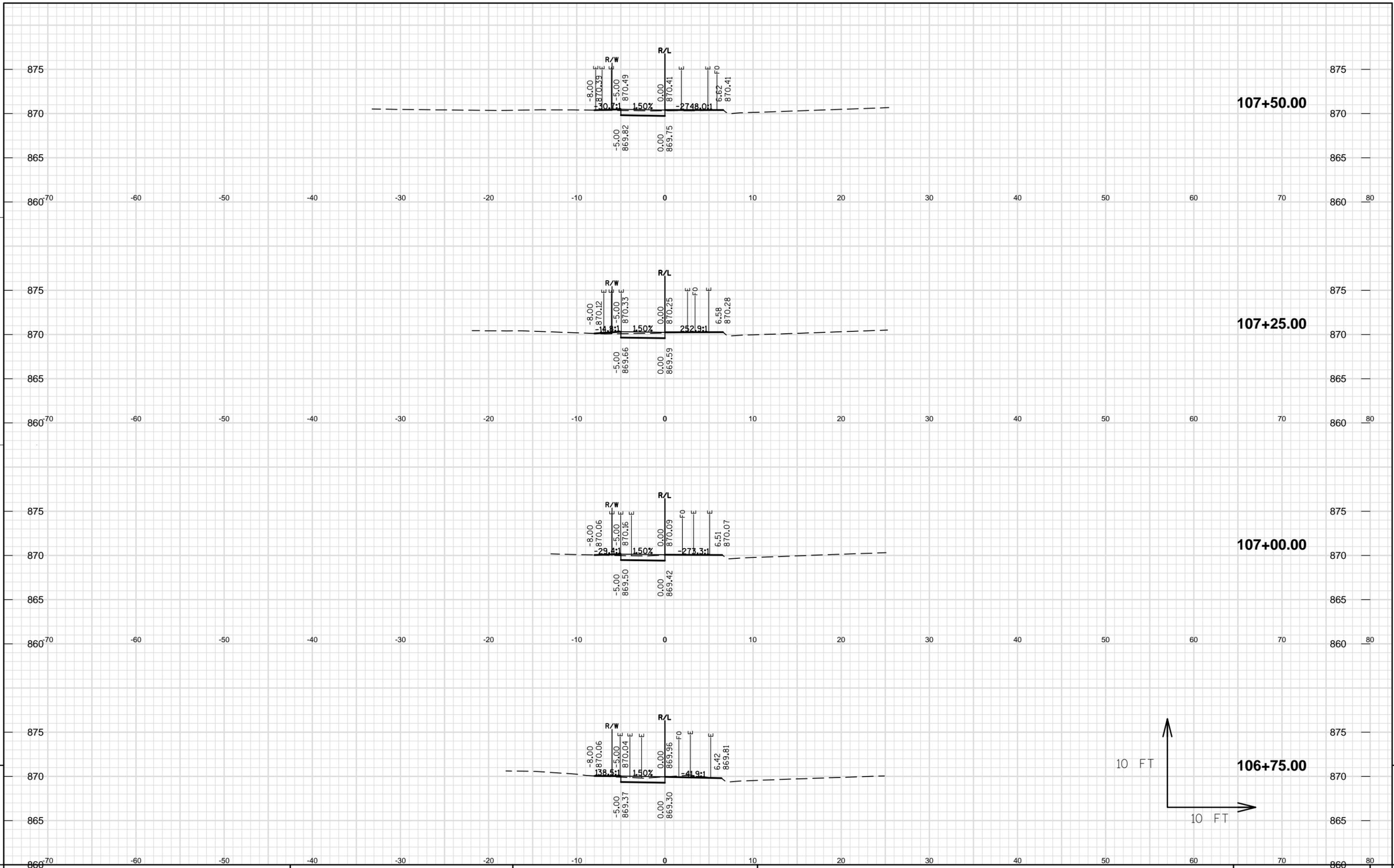
FILE NAME : S:\CURRPROJ\WASHINCO\JACKSON\INDUSTRIAL DRIVE SIDEWALK PROJECT\CIVIL3D\SHEETSPLAN\INDUSTRIAL-090201-XS.DWG PLOT DATE : 8/8/2016 1:17 PM PLOT BY : JEFF CHVOSTA PLOT NAME : ----- PLOT SCALE : ***** WISDOT/CADD SHEET 49

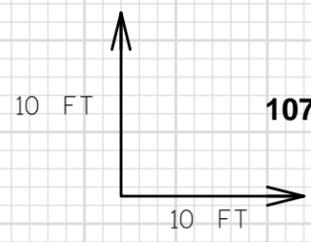
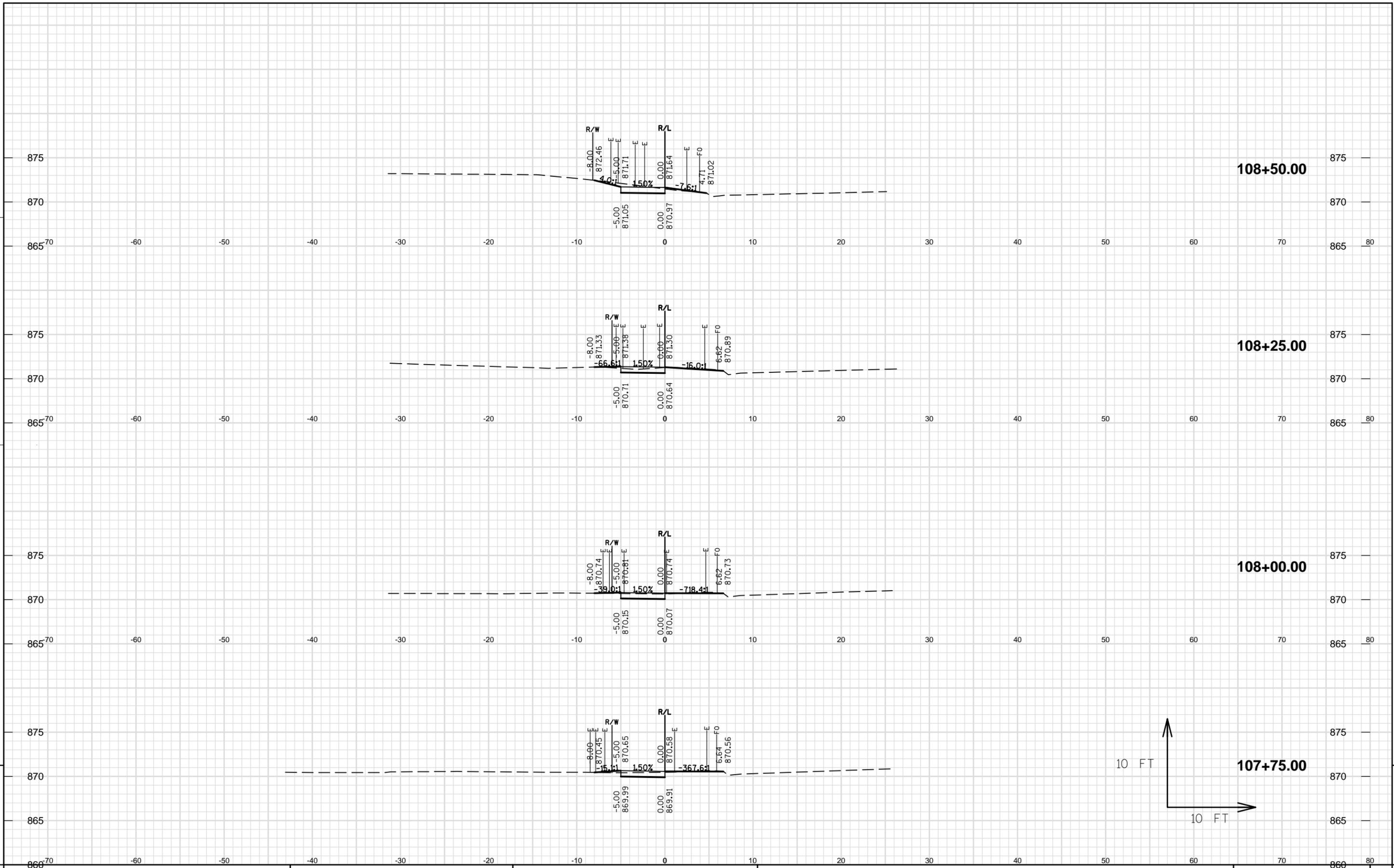


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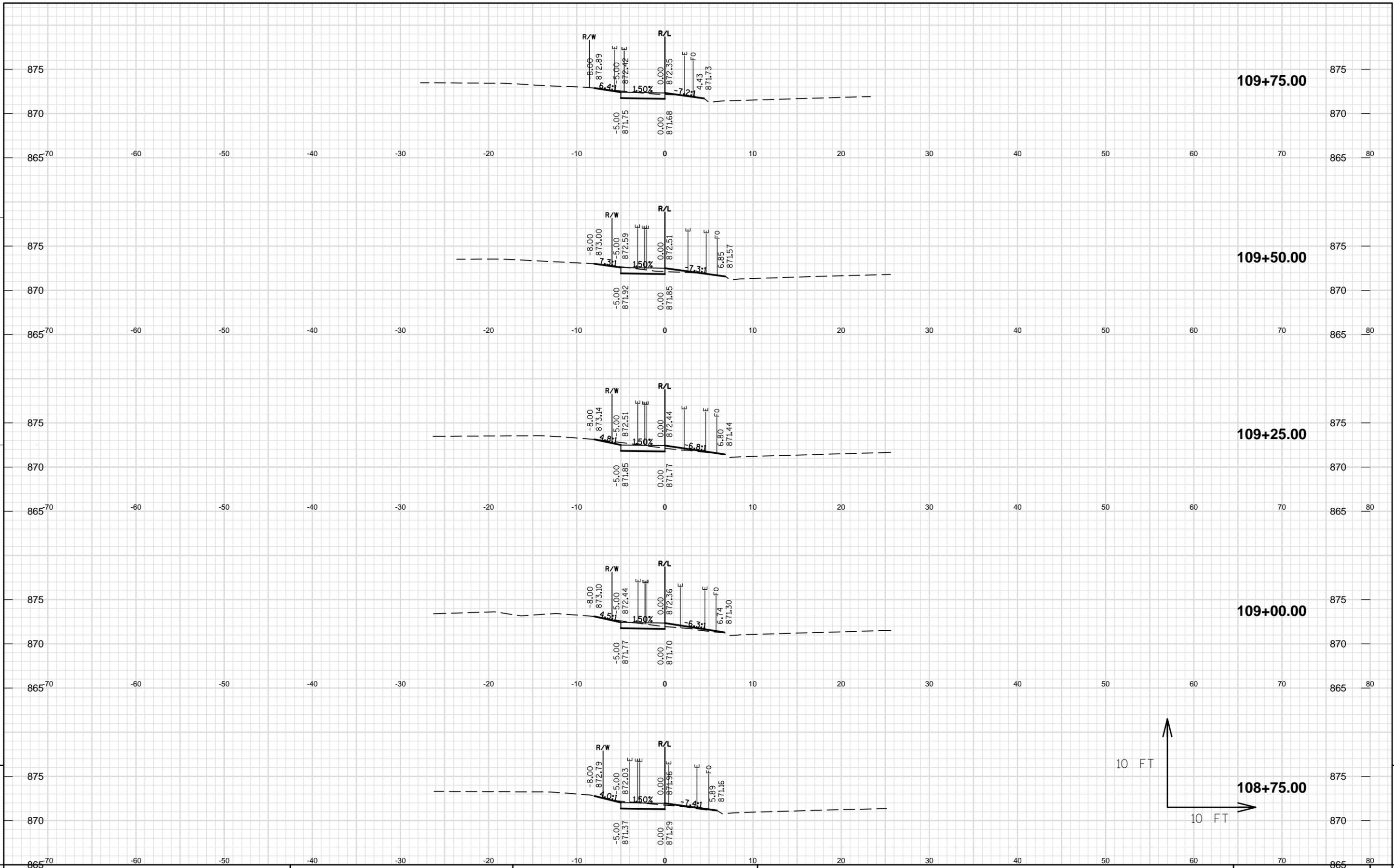






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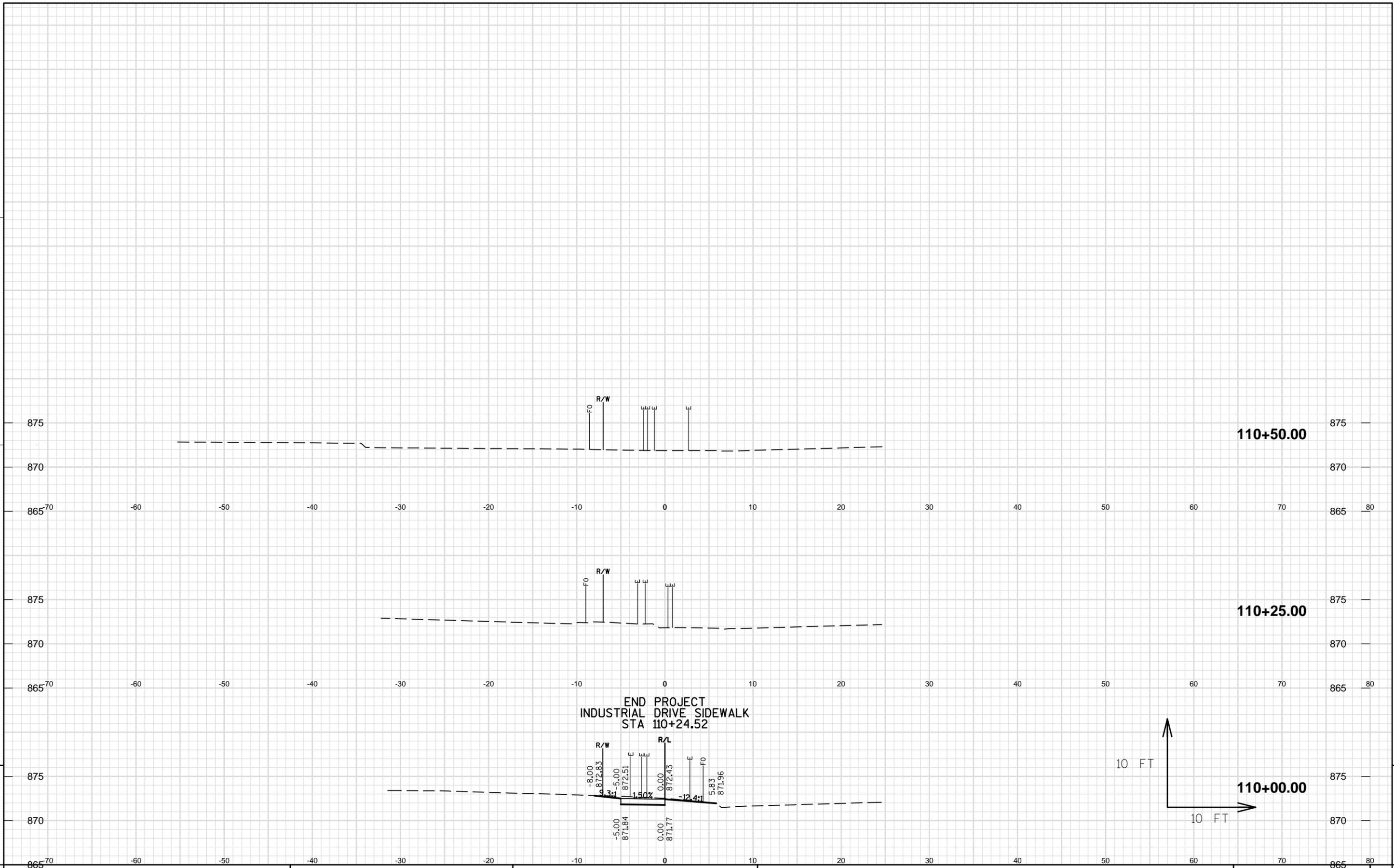


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PROJECT NO:160622 INDUSTRIAL DRIVE SIDEWALK VILLAGE OF JACKSON CROSS SECTIONS: INDUSTRIAL DRIVE SHEET E

FILE NAME : S:\CURRPROJ\WASHINCO\JACKSON\INDUSTRIAL DRIVE SIDEWALK PROJECT\CIVIL3D\SHEETSPLAN\INDUSTRIAL-090201-XS.DWG PLOT DATE : 8/8/2016 1:17 PM PLOT BY : JEFF CHVOSTA PLOT NAME : PLOT SCALE : ***** WISDOT/CADD SHEET 49



RESOLUTION 16-18

PRELIMINARY RESOLUTION DECLARING INTENT TO EXERCISE SPECIAL ASSESSMENT POLICE POWERS, UNDER SECTION 66.0703 OF THE WISCONSIN STATUTES FOR THE INDUSTRIAL DRIVE SIDEWALK PROJECT

WHEREAS, the Village Board of the Village of Jackson, Washington County, Wisconsin is pursuing the construction and reconstruction of public improvements consisting of pavement; curb and gutter; and sidewalks and the related improvements and expenses for the benefit of the properties described on Exhibit A hereto.

BE IT RESOLVED, by the Village Board of the Village of Jackson, Washington County, Wisconsin:

1. The Village Board hereby declares its intention to exercise its police power under **Section 66.0703** of the Wisconsin Statutes to levy special assessments upon the properties described in Exhibit A hereto, for special benefits conferred upon such property by the construction of public improvements consisting of water and sanitary sewer mains; storm sewers; pavement; curb and gutter; and sidewalks and the related improvements and expenses.
2. The Village Board hereby determines that the construction of such improvements is in the best interest of, and for the health and welfare of the municipality and the property benefited by the improvements, and therefore constitutes an exercise of the police power.
3. The amount of such assessments shall be determined and levied upon completion of the construction of public improvements consisting of water and sanitary sewer mains; storm sewers; pavement; curb and gutter; and sidewalks and the related improvements and expenses.
4. The number of installments, rate of interest, and the terms of payment will be included in the Final Resolution after the Public Hearing; which will be held upon completion of the project, when final costs have been determined.
5. Every Special Assessment levied under this Resolution, shall be a lien against the property assessed, from the date of the Final Resolution of the Village Board determining the levy.
6. The Village Engineer shall prepare a report consisting of the following:
 - a. Preliminary of the final plans and specifications for the Public Works.
 - b. An estimate of the entire cost of the proposed improvements.
 - c. A schedule of the proposed properties against which the assessments are to benefit.
 - d. A statement that each property against which the assessments are proposed, has been inspected and is benefited, setting forth the basis of such benefit.

e. Upon completion of the report, the Village Engineer shall file a copy with the Village Clerk, and with the Village Treasurer.

7. The Village Clerk shall make a copy of the report available for public inspection.

Introduced by: _____

Seconded by: _____

Vote: ___ Aye ___ Nay

Passed and Approved: _____

Michael E. Schwab, Village President

Attest: _____
Deanna L. Boldrey, Village Clerk-Treasurer

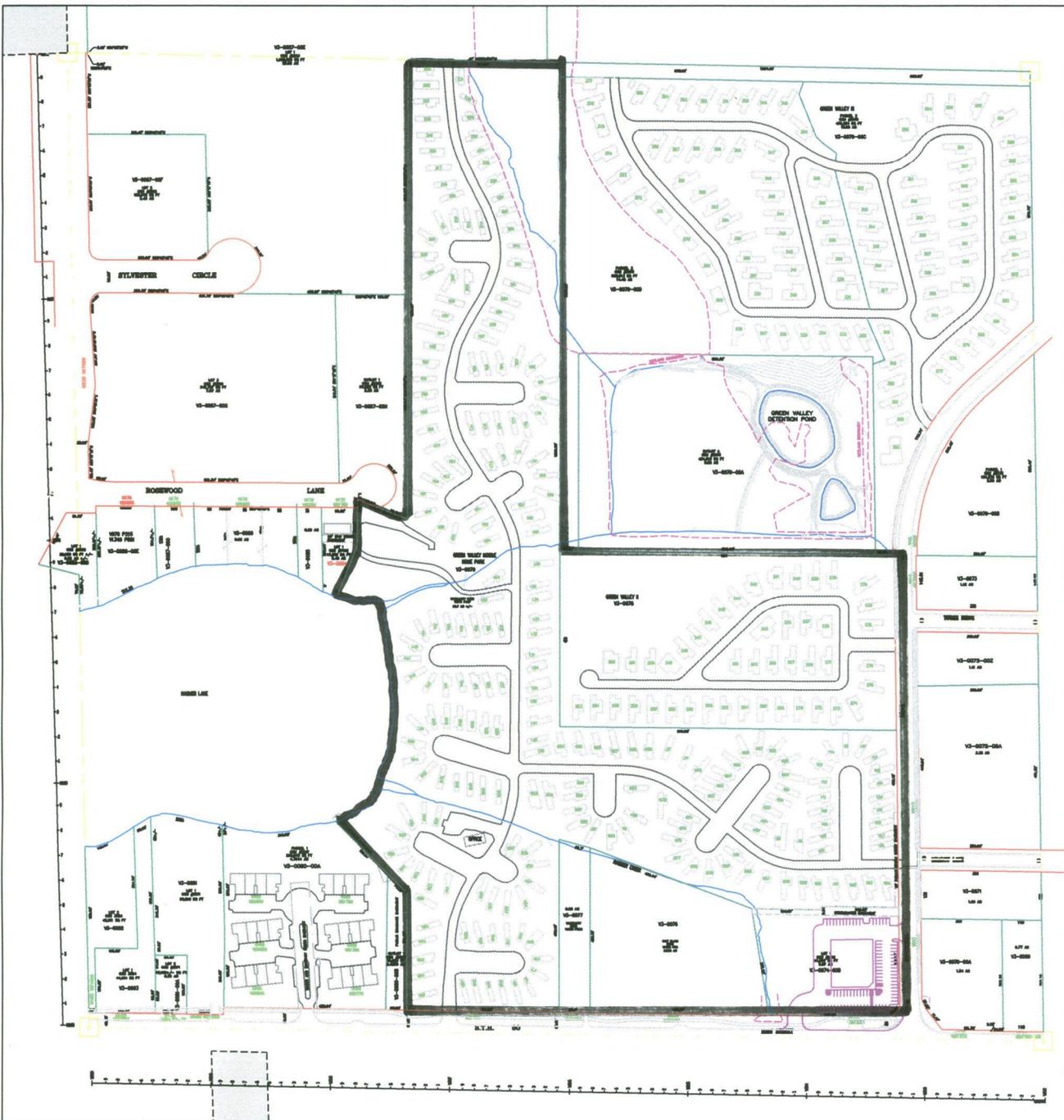
Proof of Posting:

I the undersigned, certify that I posted this Resolution on bulletin boards at the Village Hall, Post Office, and one other location in the Village.

Village Official

Date

EXHIBIT A



SW 1/4 SEC. 18-10-20
Cadastral Map
183



SCALE: 1"=100'
LOCATION KEY



SW 1/4 SEC. 18-10-20
Cadastral Map
183

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



93 South Pioneer Road, Suite 300 • Fond du Lac, WI 54935 • (920) 924-5720

August 24, 2016

Village of Jackson
N168 W20733 Main Street
Jackson, WI 53037

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

Subject: Project I.D. 151021
Wilshire Drive
Utility Construction Project
Estimate #4

Dear Mr. Kober:

Enclosed you will find Pay Estimate #4 for the Wilshire Drive project in the Village of Jackson. The total amount, due to the contractor, has not been reduced by five percent (5%) for retainage due to the fact that the work is beyond 50% completion. This is per Article 6.02.A.1 Progress Payments; Retainage, of Contract Document 00500, Agreement. All previously retained money shall be paid to the contractor minus \$2,000. This is per Article 6.02.A.2 Progress Payments; Retainage, of Contract Document 00500, Agreement. The remainder of retained money will be paid upon final acceptance of all contract work. This is per Article 6.03.A Final Payment, of Contract Document 00500, Agreement.

Work completed, Estimate # 4	= \$5,904.81
Retainage Due, Estimate #4	= \$13,384.09
Retainage Remaining, Estimate #4	= \$2,000
Amount due to Contractor, Estimate #4	= \$19,288.90

If you have any questions or comments, please contact me at (920) 924-5720 or cell (414) 397-8100.

Sincerely,

Kevin Schmidt
Gremmer & Associates, Inc.

Gremmer and Associates, Inc.

93 S. Pioneer Road, Suite 300
Fond du Lac, WI 54935
(920) 924-5720
fax (920)924-5725

Buteyn-Peterson - Prime Contractor

Village of Jackson - Wilshire Drive

Item No.	Description	Units	TOTAL	Unit Price	Bid Total	Previous Estimates		Estimate #4		Cumulative Totals		% Complete
						Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	
100.01	Removing Concrete	SY	1885	\$3.47	\$6,540.95	1,903.90	\$6,606.53		\$0.00	1,903.90	\$6,606.53	101%
100.02	Removing Curb & Gutter	LF	2595	\$2.75	\$7,136.25	2,618.00	\$7,199.50		\$0.00	2,618.00	\$7,199.50	101%
100.03	Excavation Common	CY	2535	\$13.00	\$32,955.00	2,596.50	\$33,754.50		\$0.00	2,596.50	\$33,754.50	102%
100.04	Base Aggregate Dense 3/4-Inch	TON	830	\$17.43	\$14,466.90	819.04	\$14,275.87		\$0.00	819.04	\$14,275.87	99%
100.05	Base Aggregate Dense 1 1/4-Inch	TON	3400	\$10.60	\$36,040.00	3,197.03	\$33,888.52	90.26	\$956.76	3,287.29	\$34,845.27	97%
100.06	Breaker Run	TON	100	\$9.23	\$923.00	104.68	\$966.20		\$0.00	104.68	\$966.20	105%
100.07	Concrete Driveway 7-Inch	SY	1310	\$43.00	\$56,330.00	1,267.00	\$54,481.00		\$0.00	1,267.00	\$54,481.00	97%
100.08	HMA Pavement, Type E-0.3	TON	1520	\$49.20	\$74,784.00	1,318.39	\$64,864.79		\$0.00	1,318.39	\$64,864.79	87%
100.09	Asphaltic Surface Driveway	TON	10	\$84.50	\$845.00	19.00	\$1,605.50		\$0.00	19.00	\$1,605.50	190%
100.10	Concrete Curb & Gutter 30-Inch Type D	LF	2600	\$11.30	\$29,380.00	2,654.00	\$29,990.20		\$0.00	2,654.00	\$29,990.20	102%
100.11	Concrete Sidewalk 4-Inch	SF	10300	\$3.51	\$36,153.00	10,477.00	\$36,774.27		\$0.00	10,477.00	\$36,774.27	102%
100.12	Lawn Restoration	SY	4150	\$5.25	\$21,787.50	3,066.90	\$16,101.23	16.20	\$85.05	3,083.10	\$16,186.28	74%
100.13	Erosion Control	LS	1	\$2,300.00	\$2,300.00	1.00	\$2,300.00		\$0.00	1.00	\$2,300.00	100%
100.14	Traffic Control	LS	1	\$1,800.00	\$1,800.00	0.90	\$1,620.00	0.10	\$180.00	1.00	\$1,800.00	100%
100.15	Sawing Asphalt	LF	365	\$2.00	\$730.00	326.50	\$653.00		\$0.00	326.50	\$653.00	89%
100.16	Sawing Concrete	LF	480	\$3.00	\$1,440.00	381.00	\$1,143.00		\$0.00	381.00	\$1,143.00	79%
200.01	Removing Manholes	EACH	5	\$350.00	\$1,750.00	5.00	\$1,750.00		\$0.00	5.00	\$1,750.00	100%
200.02	Removing Inlets	EACH	8	\$200.00	\$1,600.00	8.00	\$1,600.00		\$0.00	8.00	\$1,600.00	100%
200.03	Removing Storm Sewer	LF	1150	\$5.00	\$5,750.00	1,105.00	\$5,525.00		\$0.00	1,105.00	\$5,525.00	96%
200.04	Storm Sewer Pipe PVC SDR-35 4-Inch	LF	1671	\$18.00	\$30,078.00	1,693.00	\$30,474.00		\$0.00	1,693.00	\$30,474.00	101%
200.05	Storm Sewer Pipe Reinforced Concrete 12-Inch	LF	167	\$60.00	\$10,020.00	167.00	\$10,020.00		\$0.00	167.00	\$10,020.00	100%
200.06	Storm Sewer Pipe Reinforced Concrete 15-Inch	LF	812	\$54.50	\$44,254.00	803.50	\$43,790.75		\$0.00	803.50	\$43,790.75	99%
200.07	Storm Sewer Pipe Reinforced Concrete 18-Inch	LF	54	\$70.50	\$3,807.00	54.00	\$3,807.00		\$0.00	54.00	\$3,807.00	100%
200.08	Storm Sewer Pipe Reinforced Concrete 24-Inch	LF	434	\$66.50	\$28,861.00	486.00	\$32,319.00		\$0.00	486.00	\$32,319.00	112%
200.09	Catch Basins 2.5x3-FT w/ Casting	EACH	7	\$1,157.00	\$8,099.00	7.00	\$8,099.00		\$0.00	7.00	\$8,099.00	100%
200.10	Manholes 4-FT Diameter w/ Casting	EACH	6	\$823.00	\$4,938.00	6.00	\$4,938.00		\$0.00	6.00	\$4,938.00	100%
200.11	Manholes 5-FT Diameter w/ Casting	EACH	3	\$1,220.00	\$3,660.00	3.00	\$3,660.00		\$0.00	3.00	\$3,660.00	100%
200.12	Manholes 6-FT Diameter Doghouse w/ Casting "	EACH	1	\$1,789.00	\$1,789.00	1.00	\$1,789.00		\$0.00	1.00	\$1,789.00	100%
200.13	Inlets 2.5x3-FT w/ Casting	EACH	3	\$1,058.00	\$3,174.00	3.00	\$3,174.00		\$0.00	3.00	\$3,174.00	100%
200.14	Concrete Collar	EACH	3	\$500.00	\$1,500.00		\$0.00		\$0.00	0.00	\$0.00	0%
300.01	Removing Sanitary Sewer Manholes	EACH	1	\$1,388.30	\$1,388.30	1.00	\$1,388.30		\$0.00	1.00	\$1,388.30	100%
300.02	Abandoning Sanitary Sewer	LS	1	\$500.00	\$500.00	1.00	\$500.00		\$0.00	1.00	\$500.00	100%
300.03	Adjusting Sanitary Manhole	EACH	7	\$669.00	\$4,683.00		\$0.00	7.00	\$4,683.00	7.00	\$4,683.00	100%
300.04	Connect to Existing Sanitary Sewer	EACH	2	\$500.00	\$1,000.00	2.00	\$1,000.00		\$0.00	2.00	\$1,000.00	100%
300.05	Sanitary Sewer PVC SDR-35 6-Inch	LF	165	\$93.00	\$15,345.00	159.50	\$14,833.50		\$0.00	159.50	\$14,833.50	97%
300.06	Sanitary Sewer PVC SDR-35 8-Inch	LF	400	\$93.87	\$37,548.00	397.00	\$37,266.39		\$0.00	397.00	\$37,266.39	99%
300.07	Sanitary Sewer Manhole w/ Casting	EACH	2	\$3,920.00	\$7,840.00	2.00	\$7,840.00		\$0.00	2.00	\$7,840.00	100%
400.01	Removing Hydrant	EACH	3	\$1,014.00	\$3,042.00	3.00	\$3,042.00		\$0.00	3.00	\$3,042.00	100%
400.02	Abandoning Water Main	LS	1	\$600.00	\$600.00	1.00	\$600.00		\$0.00	1.00	\$600.00	100%
400.03	Water Main Pipe HDPE 1 1/4-Inch	LF	855	\$74.00	\$63,270.00	893.50	\$66,119.00		\$0.00	893.50	\$66,119.00	105%
400.04	Water Main Pipe PVC C-900 6-Inch	LF	35	\$72.00	\$2,520.00	32.50	\$2,340.00		\$0.00	32.50	\$2,340.00	93%
400.05	Water Main Pipe PVC C-900 8-Inch	LF	1420	\$73.33	\$104,128.60	1,429.50	\$104,825.24		\$0.00	1,429.50	\$104,825.24	101%
400.06	Gate Valve 6-Inch	EACH	3	\$1,800.00	\$5,400.00	3.00	\$5,400.00		\$0.00	3.00	\$5,400.00	100%
400.07	Gate Valve 8-Inch	EACH	5	\$2,240.00	\$11,200.00	5.00	\$11,200.00		\$0.00	5.00	\$11,200.00	100%
400.08	Reducer 8-Inch x 6-Inch	EACH	2	\$924.00	\$1,848.00	2.00	\$1,848.00		\$0.00	2.00	\$1,848.00	100%
400.09	Anchor Tee 8-Inch x 6-Inch	EACH	3	\$1,071.00	\$3,213.00	4.00	\$4,284.00		\$0.00	4.00	\$4,284.00	133%
400.10	Cross 8-Inch x 8-Inch	EACH	1	\$1,329.00	\$1,329.00	1.00	\$1,329.00		\$0.00	1.00	\$1,329.00	100%
400.11	Bend 11.25 Degree 8-Inch	EACH	8	\$950.00	\$7,600.00	8.00	\$7,600.00		\$0.00	8.00	\$7,600.00	100%
400.12	Bend 22.5 Degree 8-Inch	EACH	2	\$961.00	\$1,922.00	4.00	\$3,844.00		\$0.00	4.00	\$3,844.00	200%
400.13	Bend 45 Degree 8-Inch	EACH	6	\$965.00	\$5,790.00	5.00	\$4,825.00		\$0.00	5.00	\$4,825.00	83%
400.14	Connect to Existing Water Main	EACH	4	\$929.00	\$3,716.00	4.00	\$3,716.00		\$0.00	4.00	\$3,716.00	100%
400.15	Hydrant	EACH	3	\$4,076.00	\$12,228.00	3.00	\$12,228.00		\$0.00	3.00	\$12,228.00	100%
400.16	Temporary 6 Cap w/ 2" Blowoff "	EACH	1	\$2,221.00	\$2,221.00	1.00	\$2,221.00		\$0.00	1.00	\$2,221.00	100%
400.17	Polystyrene Insulation 4-Inch	SF	96	\$9.00	\$864.00	96.00	\$864.00		\$0.00	96.00	\$864.00	100%
SUBTOTAL						\$772,087.50	\$756,283.27	\$5,904.81	\$762,188.08	99%		



93 South Pioneer Road, Suite 300 • Fond du Lac, WI 54935 • (920) 924-5720

Work completed, previous estimates	\$756,283.27
Work completed, this estimate	\$5,904.81
Total work completed	\$762,188.08
Retainage, this estimate	\$2,000.00
Total Retainage, previous estimates	\$15,384.09
Total Retainage, final	\$2,000.00
Amount due to contractor, this estimate	\$19,288.90

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

The information will be distributed at the meeting.

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.		2016			Method / Justification
				Bidder No. 3		REVISED Engineer's Estimate			
Item No.	Item	Unit	Estimated Quantity	Unit Price	Total	Estimated Quantity	Unit Price	Total	
	Excavation Common	CY	600	\$	-	204	\$60.00	\$ 12,268.80	Cut Volume, Civil 3D
	Base Aggregate Dense 1-1/4 Inch	TON	530	\$	-	287	\$45.00	\$ 12,906.00	Length * Width * Depth * 2 ton/cy
	Tack Coat	GAL	--	\$	-	61	\$8.50	\$ 515.95	Length * Width * 0.07 gal/sy
	Asphaltic Surface	TON	370	\$	-	168	\$225.00	\$ 37,845.00	Length * Width * Depth * 110 / 2000 lb/ton
	Concrete Pavement 6 Inch	SY				28	\$100.00	\$ 2,770.00	Length * Width
	Concrete Sidewalk 5 Inch	SF	270	\$	-	244	\$10.00	\$ 2,435.40	Length * Width
	Curb Ramp Detectable Warning Field Yellow	SF	32	\$	-	8	\$375.00	\$ 3,000.00	Length * Width
	Mobilization	EACH	1	\$	-	1	\$7,500.00	\$ 7,500.00	
	Salvaged Topsoil	SY	1640	\$	-	3,367	\$2.00	\$ 6,734.80	Area of Restoration, Finished - Non-pavment
	Mulching	SY	1500	\$	-	3,367	\$0.50	\$ 1,683.70	Area of Restoration, Finished - Non-pavment
	Silt Fence	LF	1200	\$	-	583	\$2.50	\$ 1,457.50	Northern Slope Intercept Adjacent to Wetland
	Silt Fence Maintenance	LF	1200	\$	-	583	\$0.50	\$ 291.50	Northern Slope Intercept Adjacent to Wetland
	Erosion Mat Class I Type B	SY	62	\$	-	190	\$6.50	\$ 1,235.00	
	Inlet Protection Type C	EACH	1	\$	-	2	\$130.00	\$ 260.00	
	Retaining Wall	SF				360	\$65.00	\$ 23,400.00	Length * Height
	Retaining Wall Excavation	CY				77	\$13.00	\$ 997.10	Excavation to Depth of Leveling Slab, 6.5' Wide
	Geotextile Fabric Type HR	SY				181	\$3.50	\$ 631.75	Length * Excavation Width * 2 layers
	Tracking Pads	EACH	3	\$	-	3	\$1,800.00	\$ 5,400.00	
	Seeding Mixture No. 20	LB	45	\$	-	61	\$11.00	\$ 666.60	Area of Restoration * 2 lb/1000 sf
	Posts Wood 4x4 Inch x 12 Ft	EACH	2	\$	-	2	\$190.00	\$ 380.00	(2) R5-6 "NO BIKES"
	Signs Type II Reflective H	SF	12.125	\$	-	8	\$195.00	\$ 1,560.00	(2) R5-6 "NO BIKES"
	Traffic Control	EACH	1	\$	-	1	\$5,000.90	\$ 5,000.90	
	Traffic Control Drums	DAY	1350	\$	-	1,368	\$0.50	\$ 684.00	36 Drums * 38 Days
	Traffic Control Signs	DAY	270	\$	-	228	\$0.50	\$ 114.00	6 Signs * 38 Days
	Pavement Marking Stop Line Epoxy 24 Inch	LF	20	\$	-	20	\$20.00	\$ 400.00	
	Pavement Marking Crosswalk Epoxy 12 Inch	LF	100	\$	-	100	\$10.00	\$ 1,000.00	
				Total No. 3			Total Est.	\$ 131,138.00	

PLOT SCALE : 1:1

SHEET SET : 1.00

PLOT BY : ----

FILE NAME : F:\BIM-3372_Jackson STH 60 Trail - Village of Jackson\C3d\SheetPlan\0101.tl.dwg

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Includes Erosion Control Plans)
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 9	Cross Sections

TOTAL SHEETS = 36



PLAN OF PROPOSED IMPROVEMENT

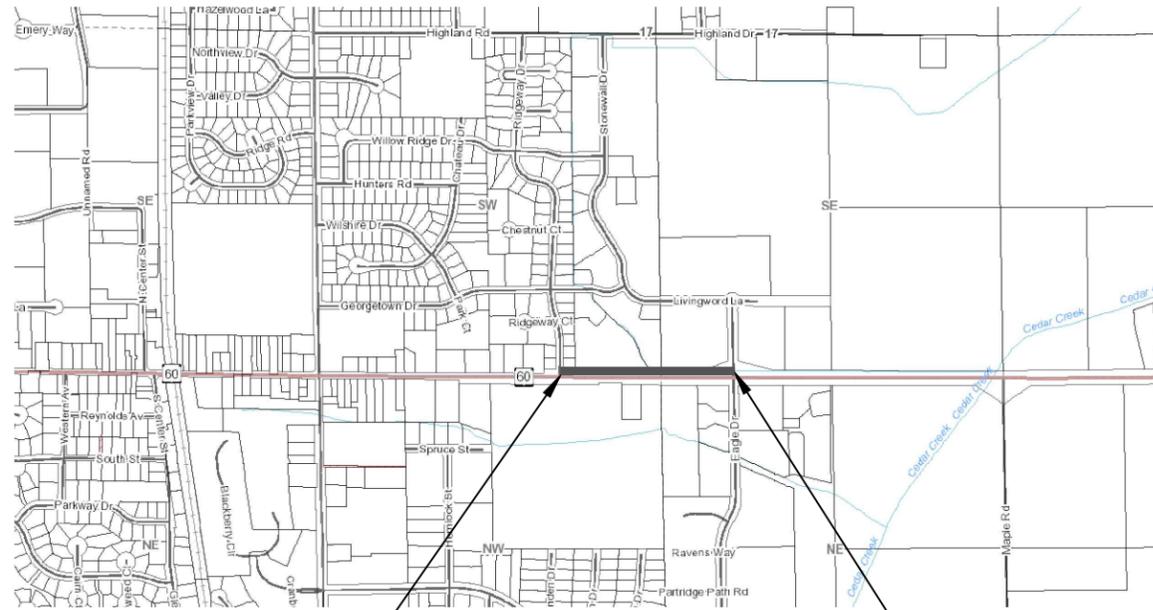
STONEWALL CONNECTION SIDEWALK

VILLAGE OF JACKSON

(NON-HWY)

WASHINGTON COUNTY

BLOOM PROJECT NUMBER
3372



BEGIN PROJECT
STONEWALL CONNECTION
TRAIL STA 100+00
N= 147947.46
E= 369780.54

TOTAL LENGTH OF CENTERLINE = 1291 FT

END PROJECT
STONEWALL CONNECTION
TRAIL STA. 112+85
N: 147,916.25
E: 371,057.36

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
FENCE	
RR TRACKS	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
OVERHEAD LINE	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WI. COUNTY COORDINATE SYSTEM, WASHINGTON ZONE, WCCS WASHINGTON DATUM

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NGVD29.

ACCEPTED FOR
VILLAGE OF JACKSON

(Date) _____
 DIRECTOR OF PUBLIC WORKS
 (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY



(Date) _____ (Signature) _____

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL, WHICH SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE ABANDONMENT OR REMOVAL ITEM.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET PROTECTION SHALL BE PLACED AT ALL INLET LOCATIONS ACCEPTING STORM WATER FROM THE PROJECT AREA OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. SALVAGED TOPSOIL SHALL BE USED.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO WORKING LIGHTS SHALL BE VISIBLE ON A LAID DOWN SIGN.

DISTURBED AREAS EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOILED, MULCHED AND SEEDED AS DIRECTED BY THE ENGINEER IN THE FIELD.

FERTILIZER SHALL NOT BE USED WITHIN 200' NAVIGABLE WATERWAYS OR WETLANDS. THE DRAINAGE WAY ON THE PROJECT IS NAVIGABLE.

ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN TWO 2.0" LIFTS

STANDARD ABBREVIATIONS

AC ACRE
 AECPRC APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
 AECPRCHE APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
 AEW APRON END WALL
 AGG AGGREGATE
 AH AHEAD
 ASPH ASPHALTIC
 B/C BACK OF CURB
 BK BACK
 BM BENCH MARK
 CE COMMERCIAL ENTRANCE
 CONC CONCRETE
 CL OR C/L CENTER OR CONSTRUCTION LINE
 CP CULVERT PIPE
 CPCM CULVERT PIPE CORRUGATED METAL
 CPRCCULVERT PIPE REINFORCED CONCRETE
 CPRCHE CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
 CPT CULVERT PIPE TEMPORARY
 CY CUBIC-YARD
 D DEGREE OF CURVE
 Δ DELTA
 DIA DIAMETER
 DISCH DISCHARGE
 DWY DRIVEWAY
 EL OR ELEV ELEVATION
 EW END WALL
 EBS EXCAVATION BELOW SUBGRADE
 FF FACE TO FACE
 FE FIELD ENTRANCE
 FT FOOT
 HES HIGH EARLY STRENGTH
 HMA HOT MIX ASPHALT
 INV INVERT
 LT LEFT
 LHF LEFT HAND FORWARD
 L LENGTH OF CURVE
 LF LINEAR FOOT
 MIN MINIMUM
 ML OR M/L MATCHLINE
 NC NORMAL CROWN
 PAVT PAVEMENT
 PCC POINT OF COMPOUND CURVE
 PC POINT-OF CURVE
 PE PRIVATE ENTRANCE
 PGL PROFILE GRADE LINE
 PI POINT OF INTERSECTION
 PL PROPERTY LINE
 PLE PERMANENT LIMITED EASMENT
 PRC POINT OF REVERSE CURVATURE
 PT POINT OF TANGENT
 R RADIUS OF CURVE
 RL OR R/L REFERENCE LINE
 REINF REINFORCED
 REQ'D OR REQD REQUIRED
 RC REVERSE CROWN
 RT RIGHT
 RHF RIGHT HAND FORWARD
 R/W RIGHT OF WAY
 SALV SALVAGED
 SF SQUARE FOOT
 SY SQUARE YARD
 SDD STANDARD DETAIL DRAWING
 STA STATION
 SSPRC STORM SEWER PIPE REINFORCED CONCRETE
 SSPRCHE STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
 SE SUPER ELEVATION
 T TANGENT
 TEMP TEMPORARY
 TLE TEMPORARY LIMITED EASEMENT
 TYP TYPICAL
 VPCC VERTICAL POINT OF COMPOUND CURVATURE
 VPC VERTICAL POINT OF CURVE
 VPI VERTICAL POINT OF INTERSECTION
 VPRC VERTICAL OPINT OF REVERSE CURVATURE
 VPT VERTICAL POINT OF TANGENCY

PLOT SCALE : 1:1

SHEET SET : 2.00

PLOT BY : ----

FILE NAME :F:\B\MI-5372_Jackson STH 60 Trail - Village of Jackson C3d#SheetPlan#020101-gn.dwg



STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

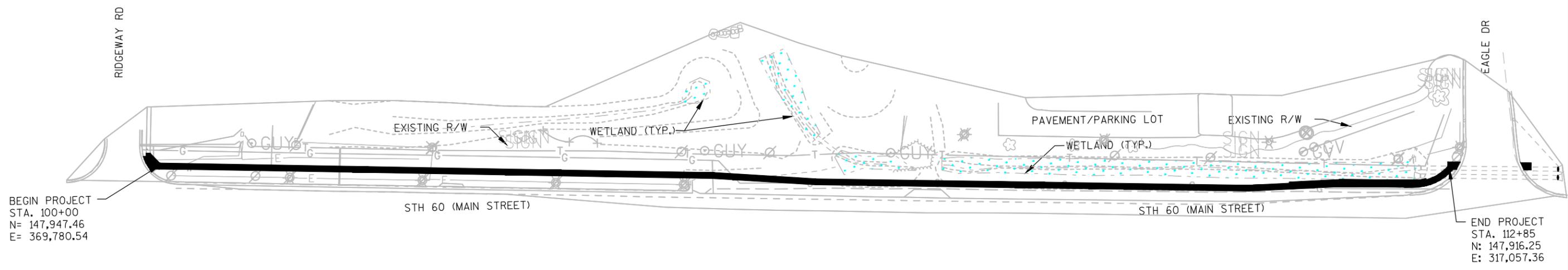
GENERAL NOTES

Designer	Technician	Approval	
HAS	HAS	---	

Date
8/26/16

Sheet Number

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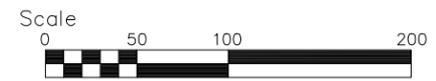


BEGIN PROJECT
 STA. 100+00
 N= 147,947.46
 E= 369,780.54

END PROJECT
 STA. 112+85
 N: 147,916.25
 E: 317,057.36

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



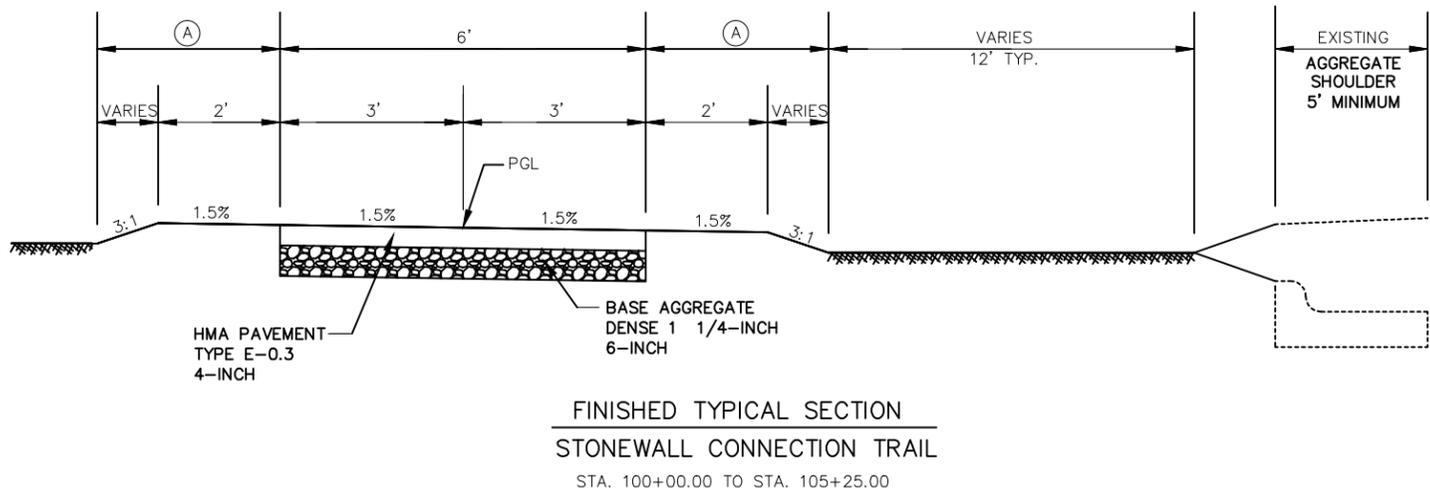
PROJECT OVERVIEW			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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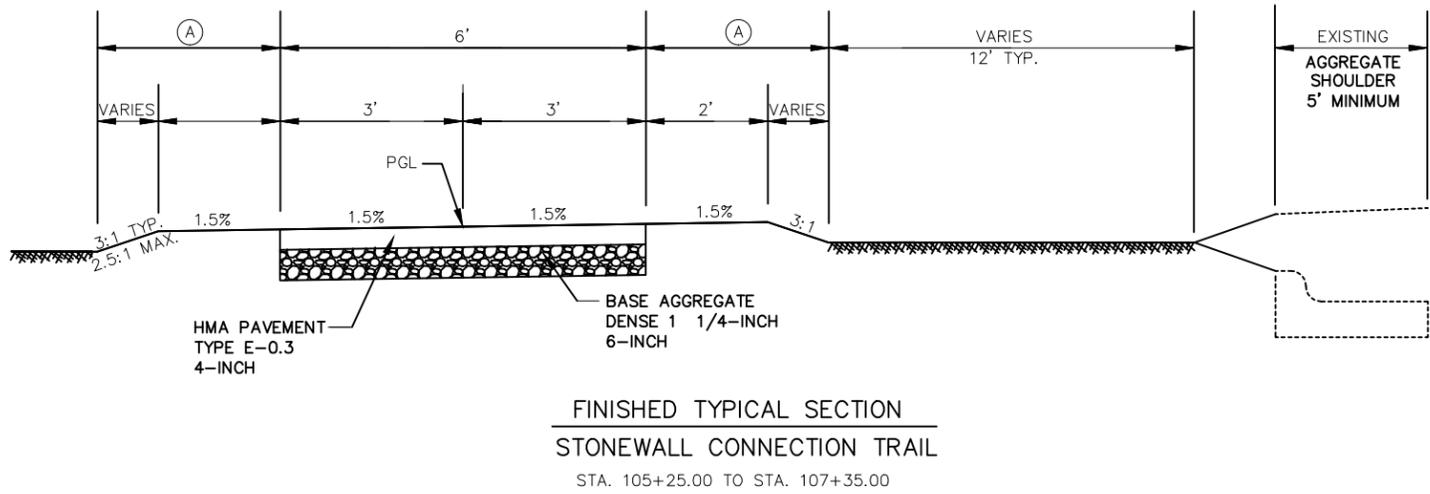
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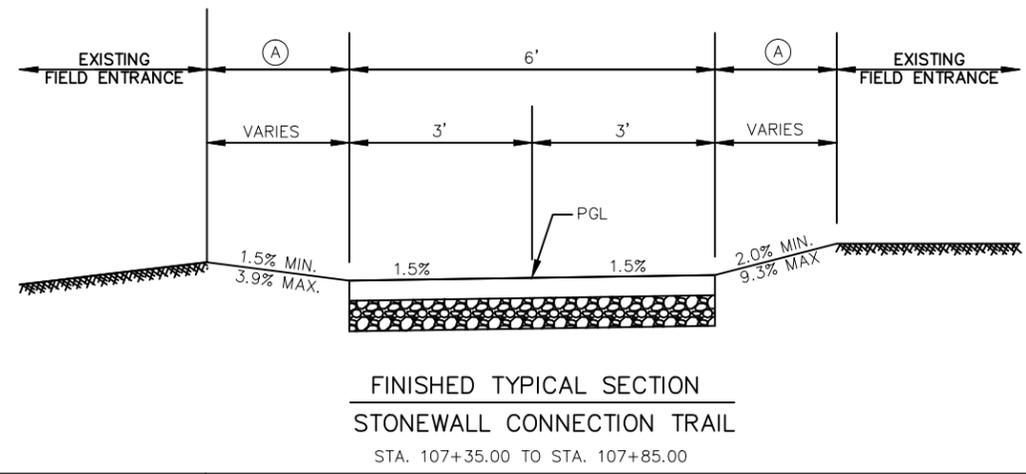
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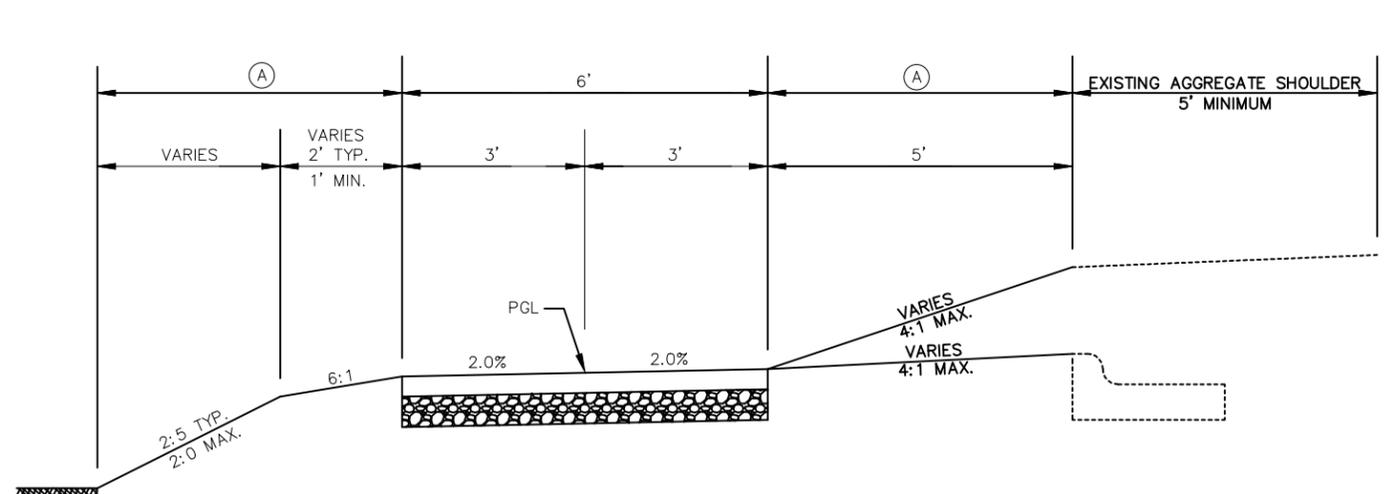
FINISHED TYPICAL SECTION
 STONEWALL CONNECTION TRAIL
 STA. 100+00.00 TO STA. 105+25.00



FINISHED TYPICAL SECTION
 STONEWALL CONNECTION TRAIL
 STA. 105+25.00 TO STA. 107+35.00

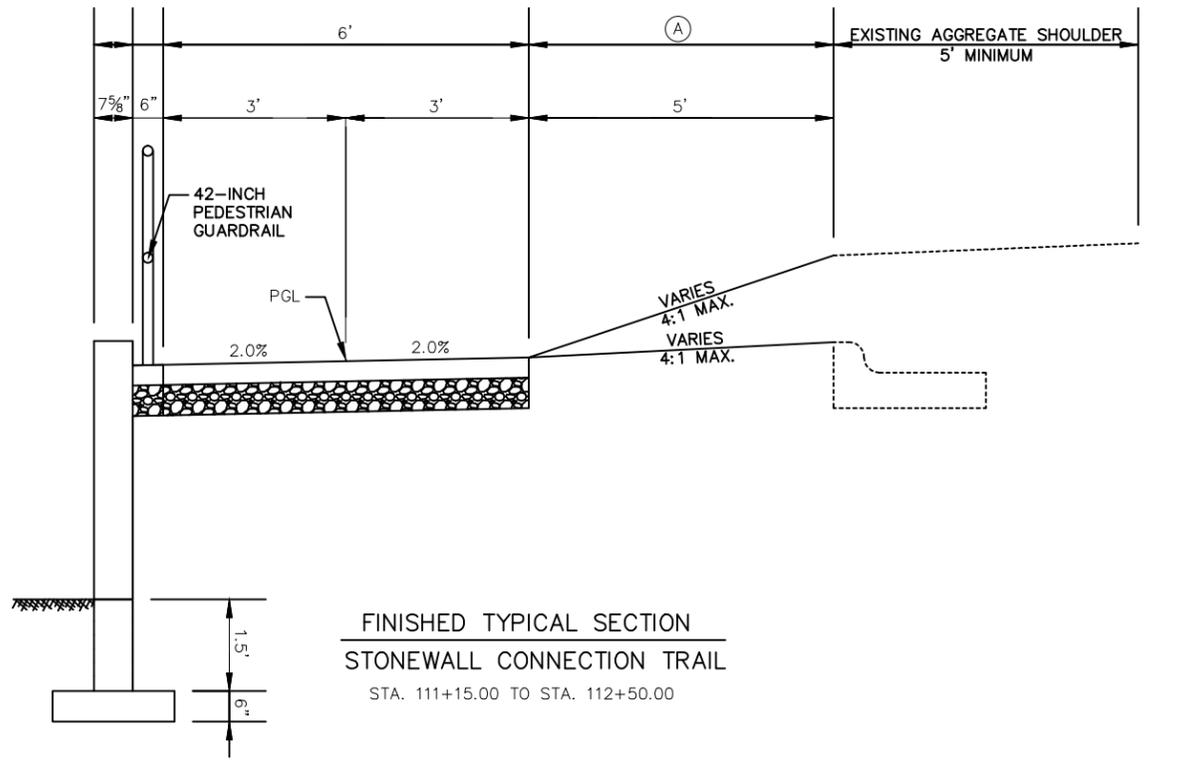


FINISHED TYPICAL SECTION
 STONEWALL CONNECTION TRAIL
 STA. 107+35.00 TO STA. 107+85.00



FINISHED TYPICAL SECTION
 STONEWALL CONNECTION TRAIL
 STA. 107+85.00 TO STA. 111+15.00
 STA. 112+50.00 TO STA. 112+85.00

NOTES
 (A) SALVAGED TOPSOIL (4" THICK),
 SEEDING MIXTURE NO. 20,
 FERTILIZER TYPE B AND MULCH
 PGL = POINT REFERRED TO ON PROFILE



FINISHED TYPICAL SECTION
 STONEWALL CONNECTION TRAIL
 STA. 111+15.00 TO STA. 112+50.00

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

TYPICAL SECTION			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

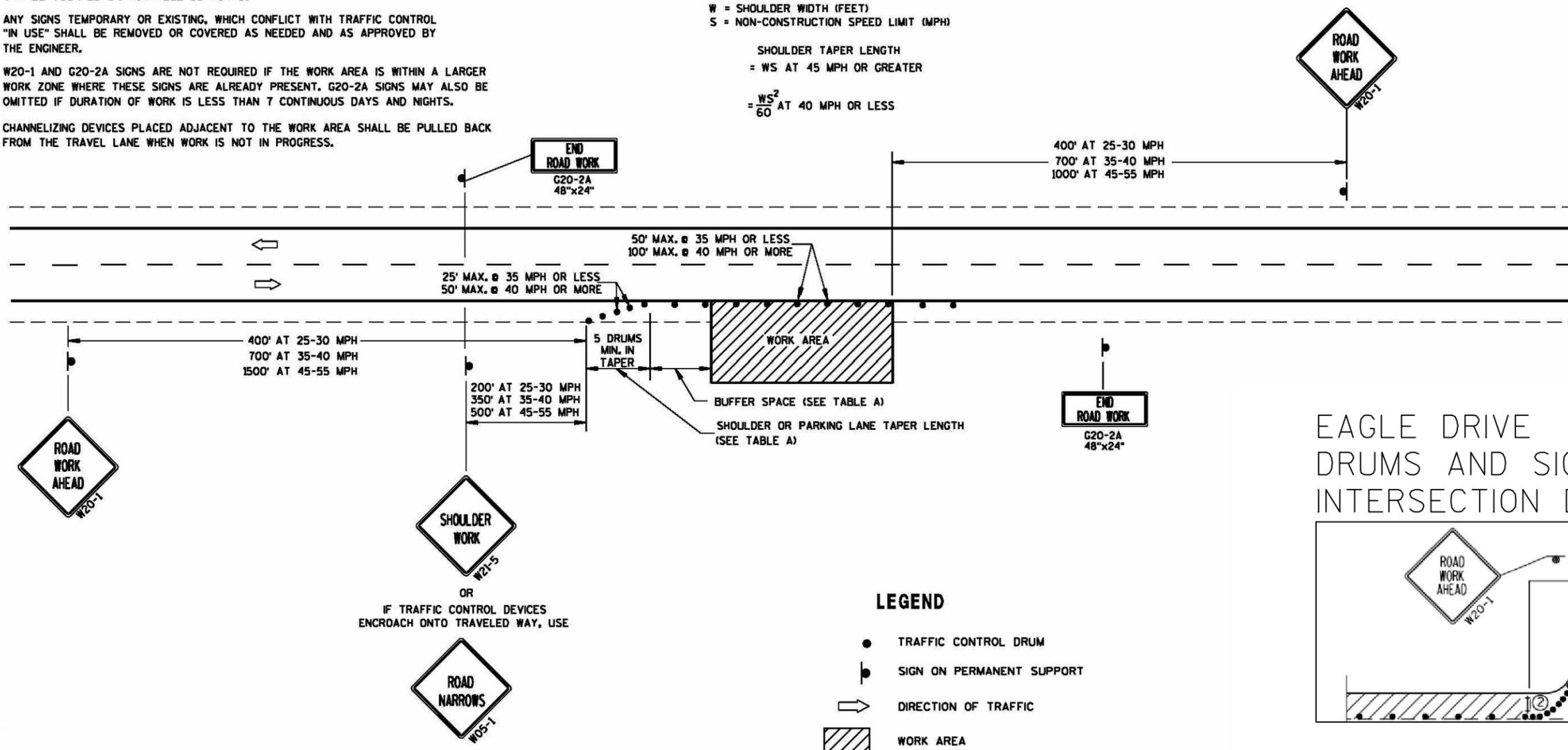
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

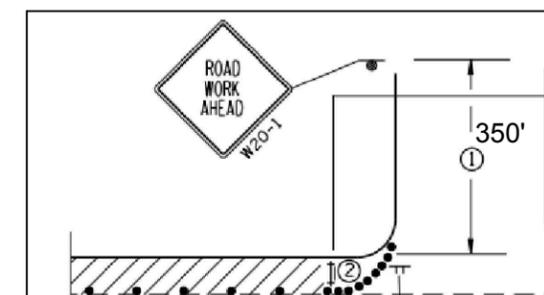
S	SHOULDER TAPER LENGTH (FEET)				BUFFER SPACE (FEET)
	4	5	8	10	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER
= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



EAGLE DRIVE DRUMS AND SIGN INTERSECTION DETAIL



LEGEND

- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ➔ DIRECTION OF TRAFFIC
- ▨ WORK AREA

OR
IF TRAFFIC CONTROL DEVICES ENCROACH ONTO TRAVELED WAY, USE



SDD - TRAFFIC CONTROL WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

CONSTRUCTION DETAILS

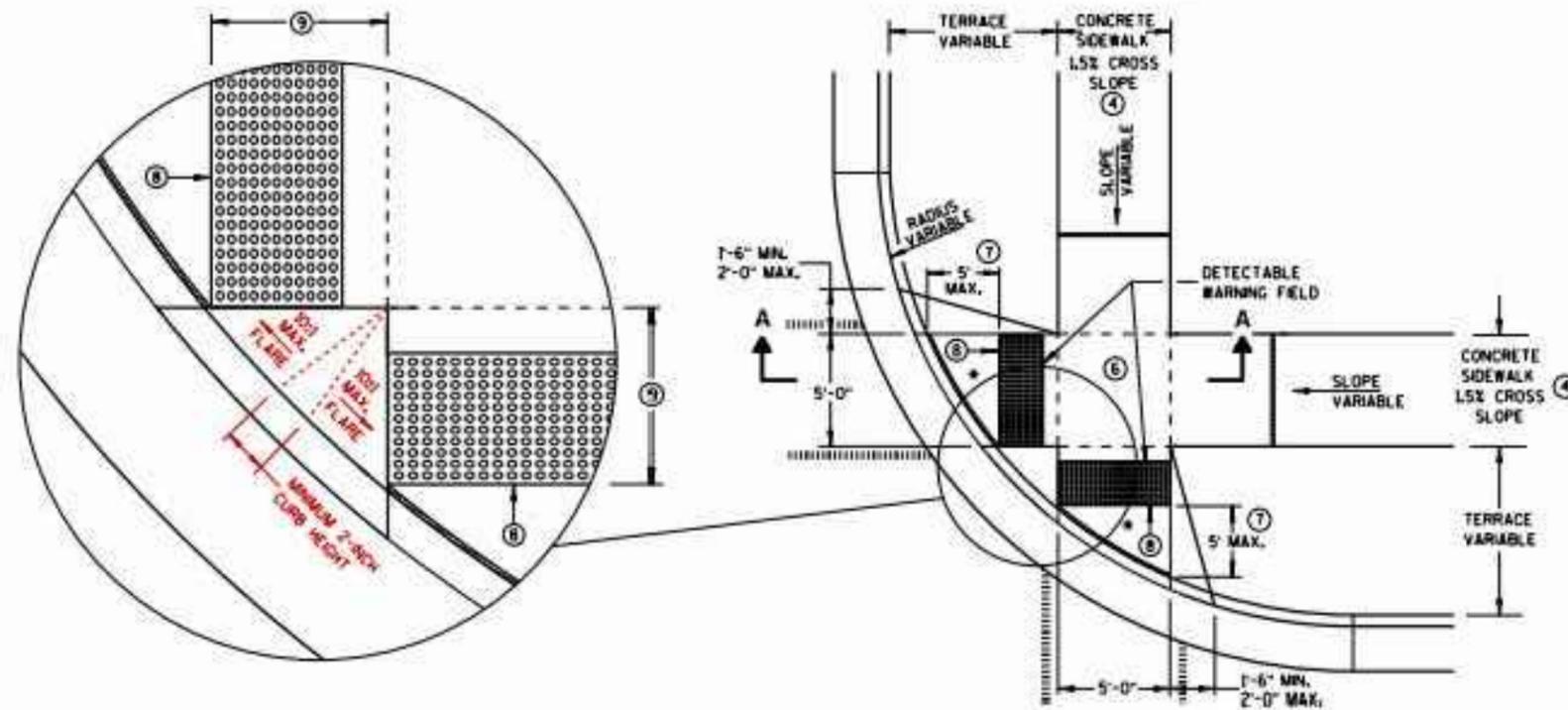
Date
8/26/16

Designer	Technician	Approval	Sheet Number
HAS	HAS	---	

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

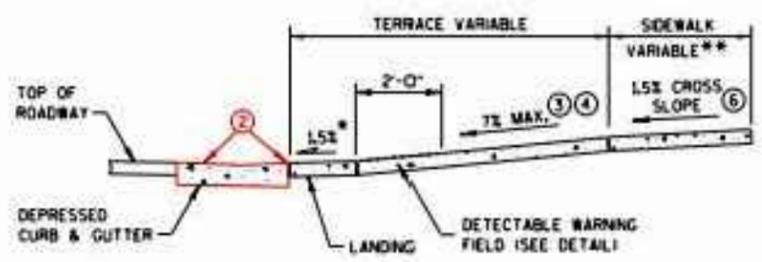


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PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE
IN ALL DIRECTIONS IN
FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE
IN THE PLANS

GENERAL NOTES

- USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 1%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.
- ③ ABSOLUTE MAXIMUM 12% (0.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 1% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).
- ⑦ WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- ⑨ WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 30:1 FLARES.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

**SDD - CURB RAMPS
TYPE 2 AND LEVELING PAD**

CONSTRUCTION DETAILS			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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

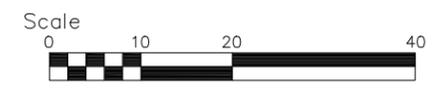
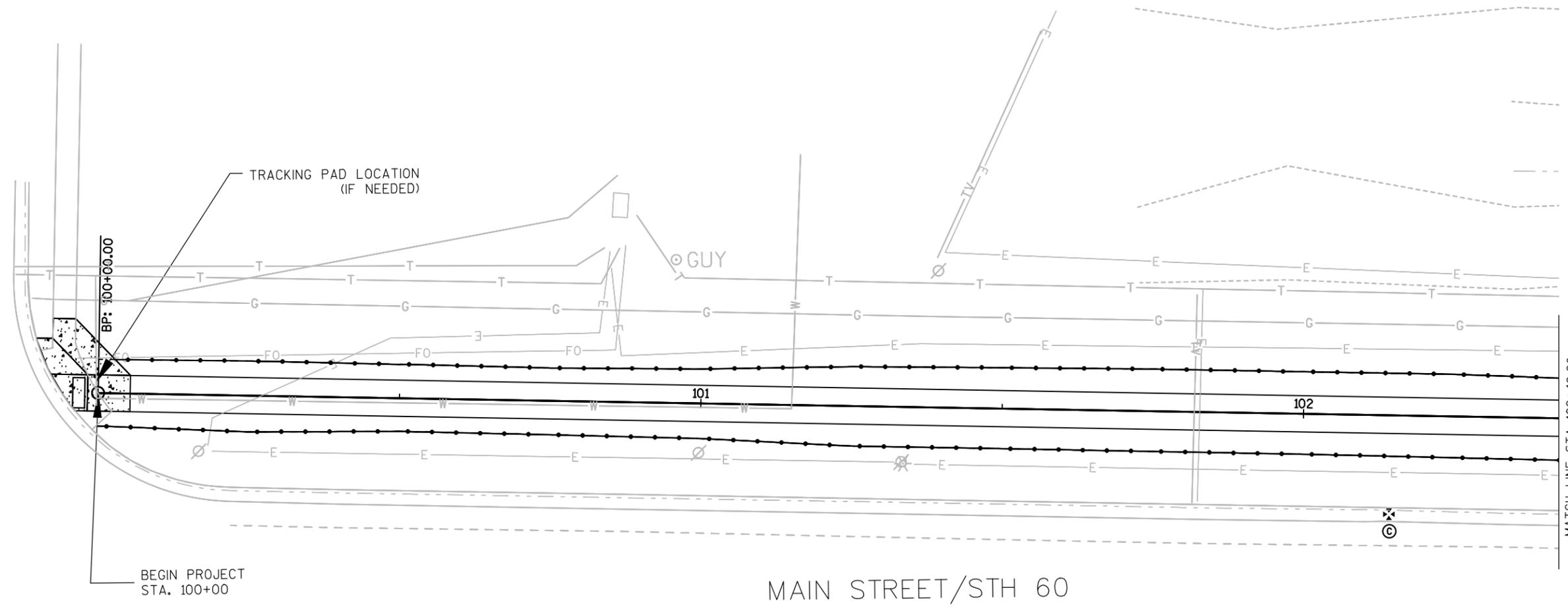
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FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson STH 60 Trail - Village of Jackson Plans\022001-ec.dwg
 PLOT BY : ----
 SHEET SET : 5.00
 PLOT SCALE : 20:1

- LEGEND**
-  SILT FENCE
 -  SLOPE INTERCEPT
 -  INLET PROTECTION, TYPE C
 -  CULVERT PIPE DITCH CHECK
 -  TRACKING PAD
 -  EROSION MAT CLASS I, TYPE B
 -  SURFACE WATER FLOW



RIDGEWAY ROAD



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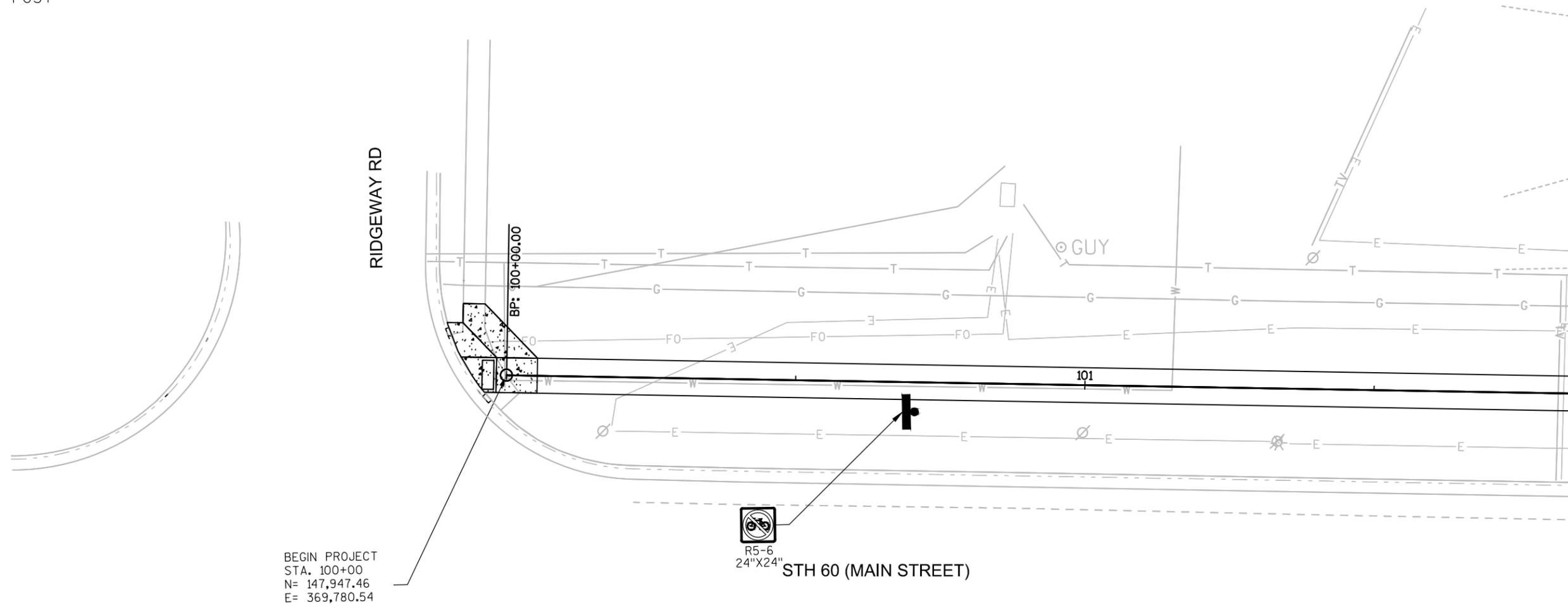
**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

EROSION CONTROL			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson\C3d4Sheets\Plans\024501-pm.dwg PLOT BY : ----- SHEET SET : 5.00 PLOT SCALE : 40:1

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING CROSSWALK EPOXY 12-INCH (WHITE)
- ② PAVEMENT MARKING 12-INCH STOP BAR (WHITE)
-  SIGN ON WOOD POST

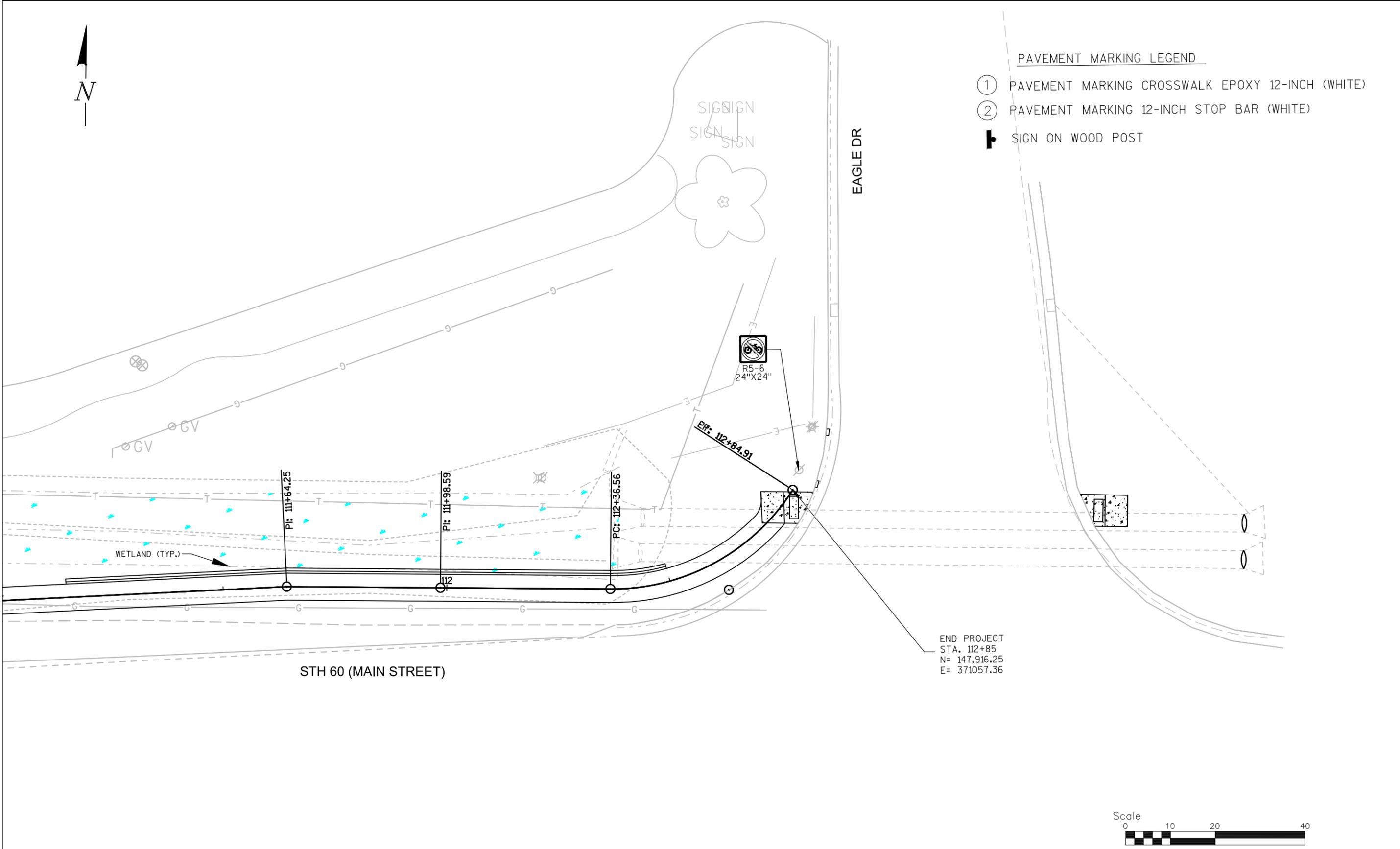


BEGIN PROJECT
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 E= 369,780.54



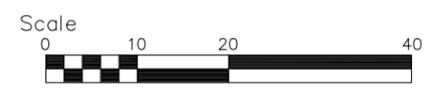
SIGNING AND MARKING			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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 SHEET SET : 5.00
 PLOT SCALE : 40:1



- PAVEMENT MARKING LEGEND
- ① PAVEMENT MARKING CROSSWALK EPOXY 12-INCH (WHITE)
 - ② PAVEMENT MARKING 12-INCH STOP BAR (WHITE)
 - ⊣ SIGN ON WOOD POST

END PROJECT
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 E= 371057.36

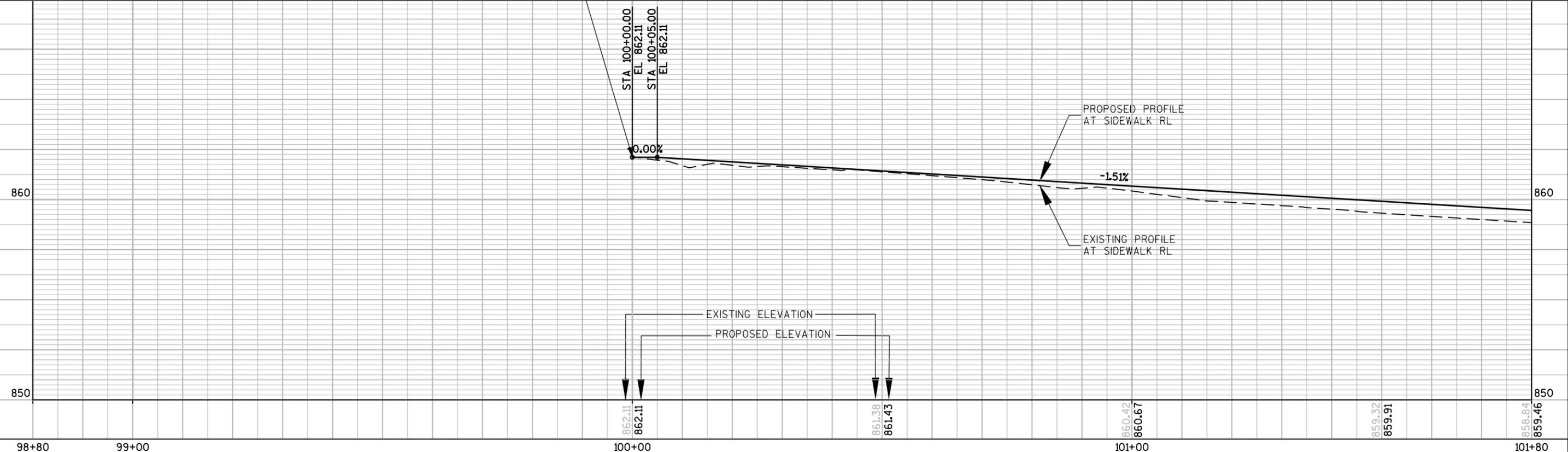
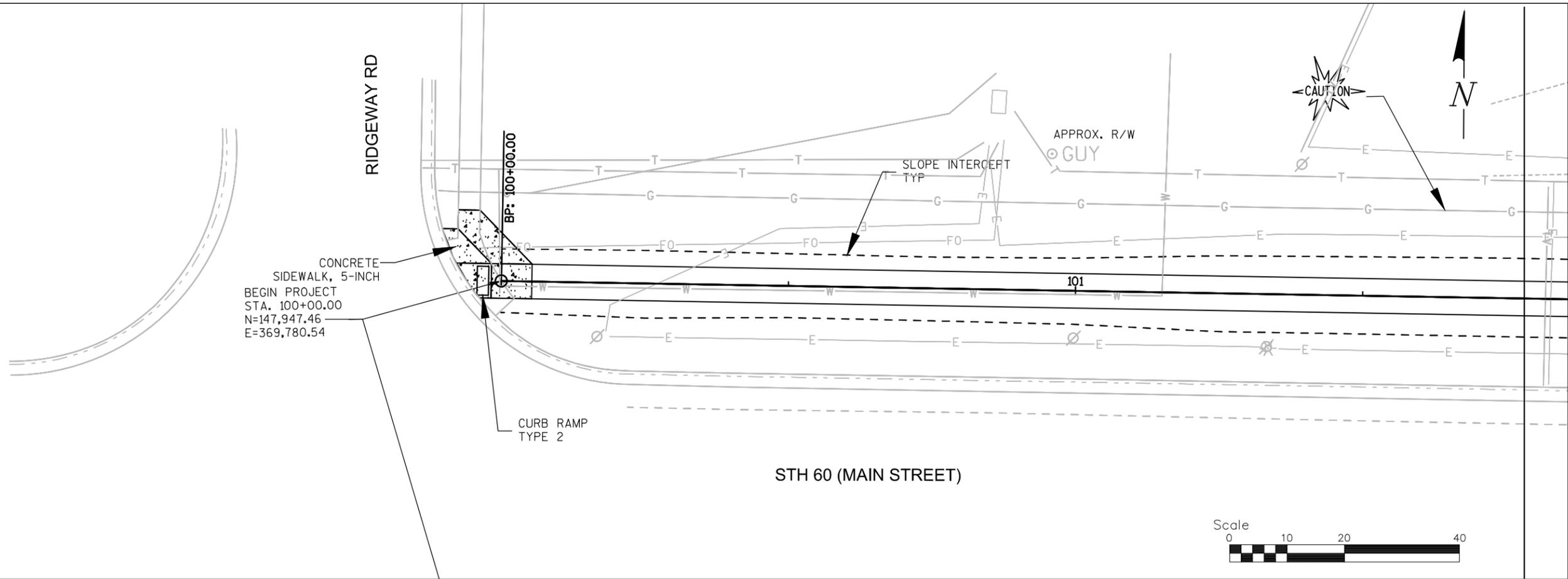


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**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

SIGNING AND MARKING			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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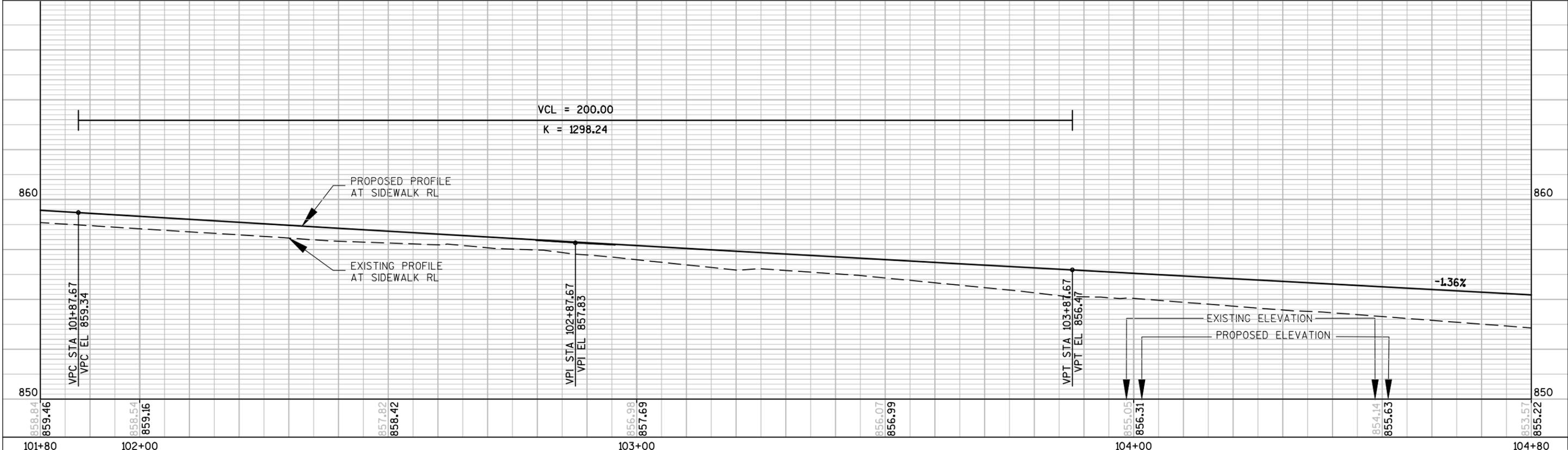
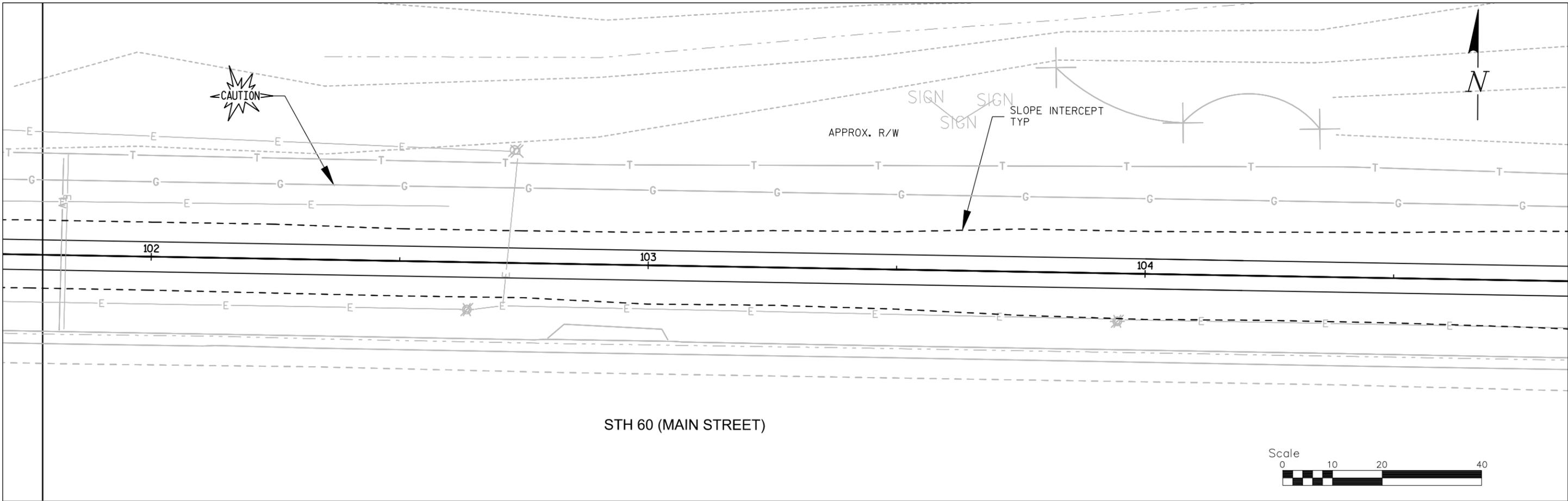
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 Phone: (414) 771-3390 Fax: (414) 771-4490

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

PLAN & PROFILE			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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



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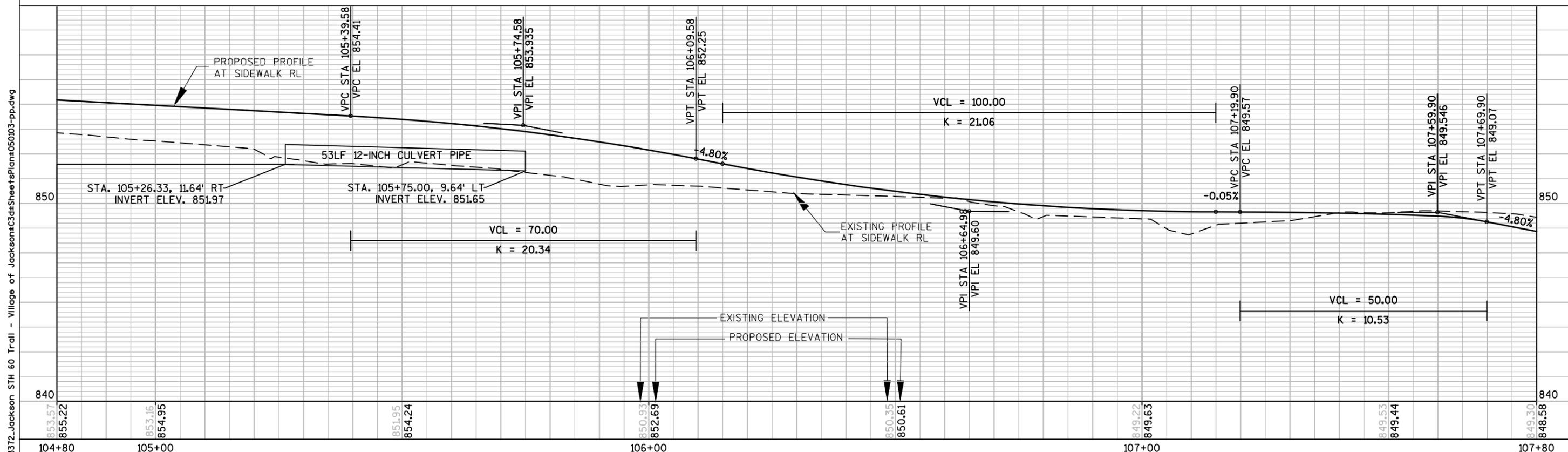
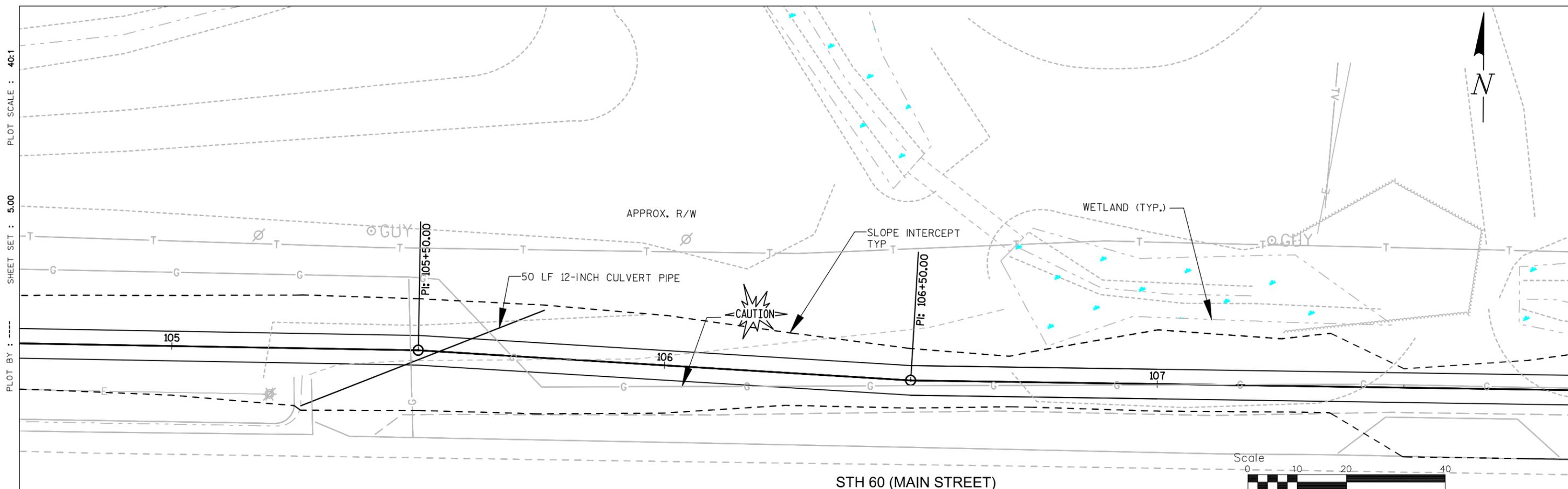
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**STONEWALL CONNECTION SIDEWALK
RIDGEWAY RD TO EAGLE DR
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PLAN & PROFILE			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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

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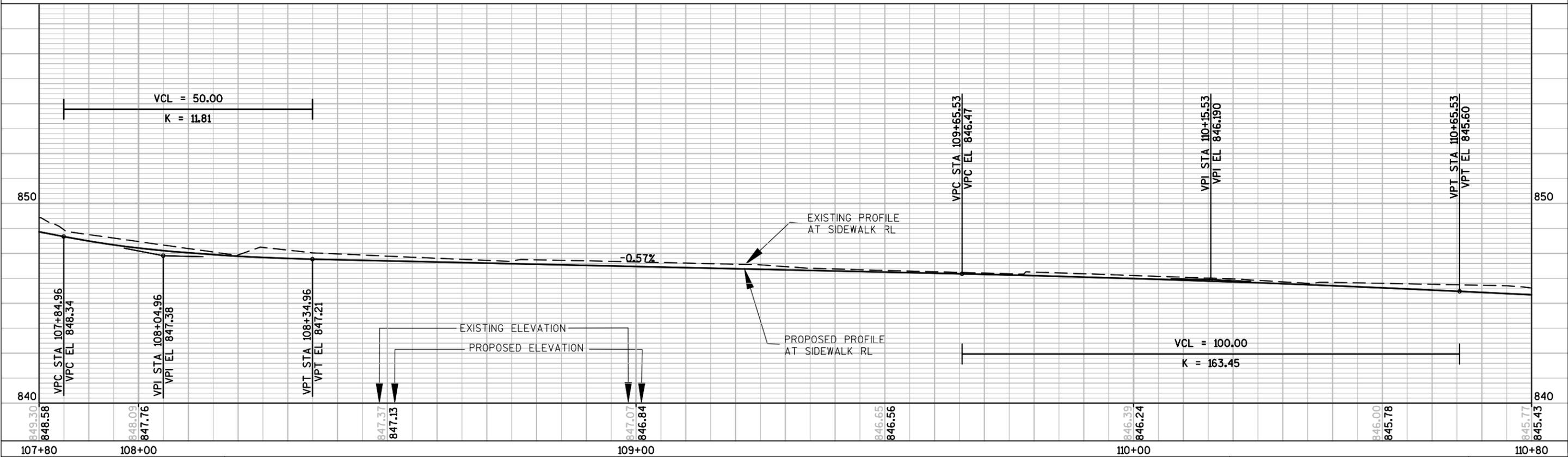
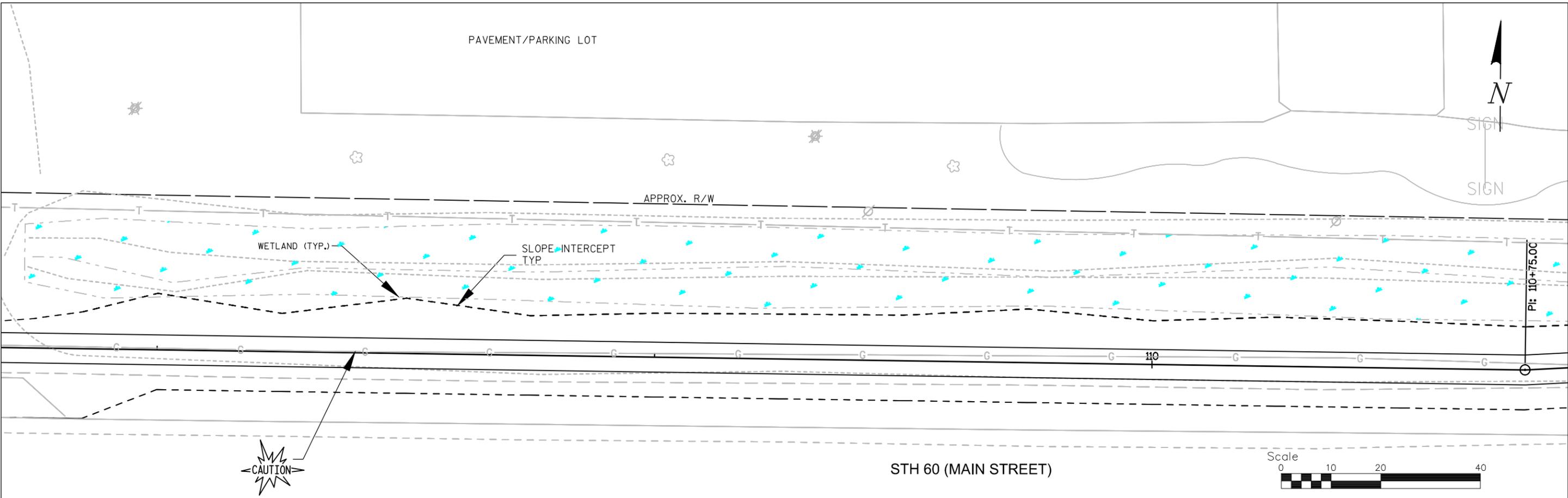
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RIDGWAY RD TO EAGLE DR
VILLAGE OF JACKSON**

PLAN & PROFILE			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number

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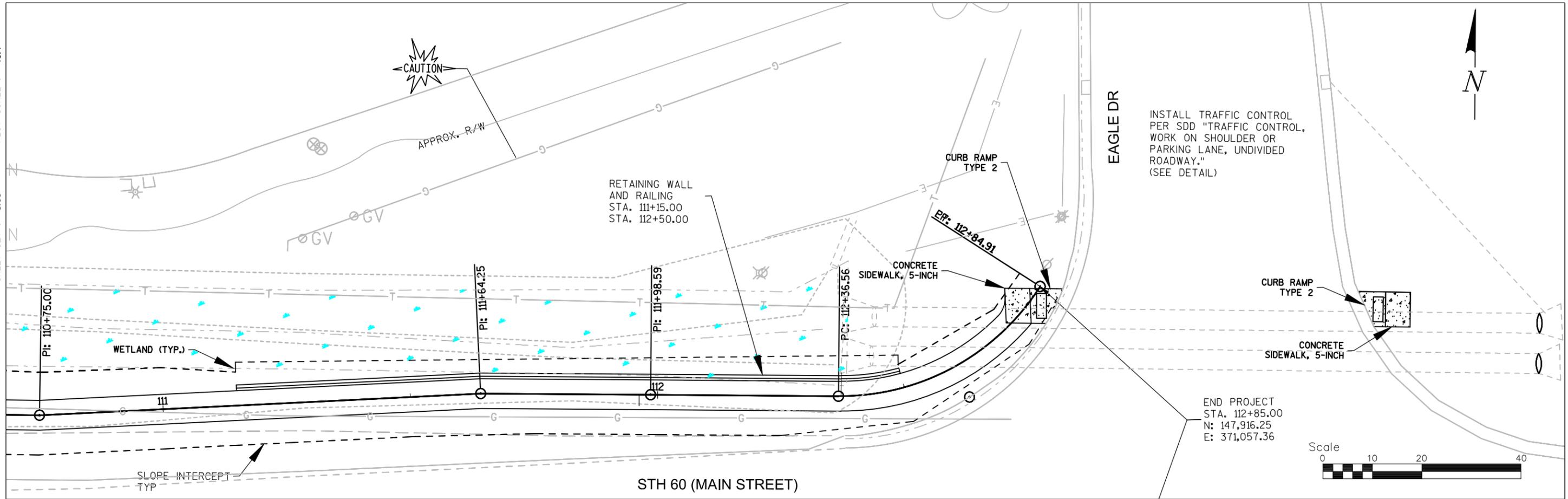


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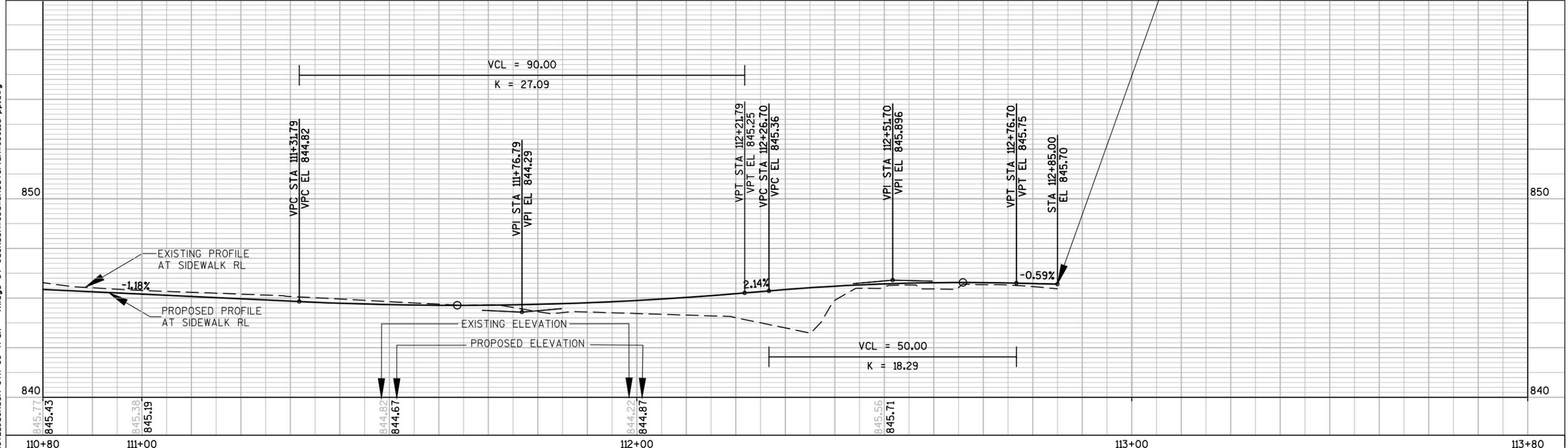
**STONEWALL CONNECTION SIDEWALK
RIDGEWAY RD TO EAGLE DR
VILLAGE OF JACKSON**

PLAN & PROFILE			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number

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 PLOT BY : ----
 SHEET SET : 5.00
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INSTALL TRAFFIC CONTROL PER SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY." (SEE DETAIL)

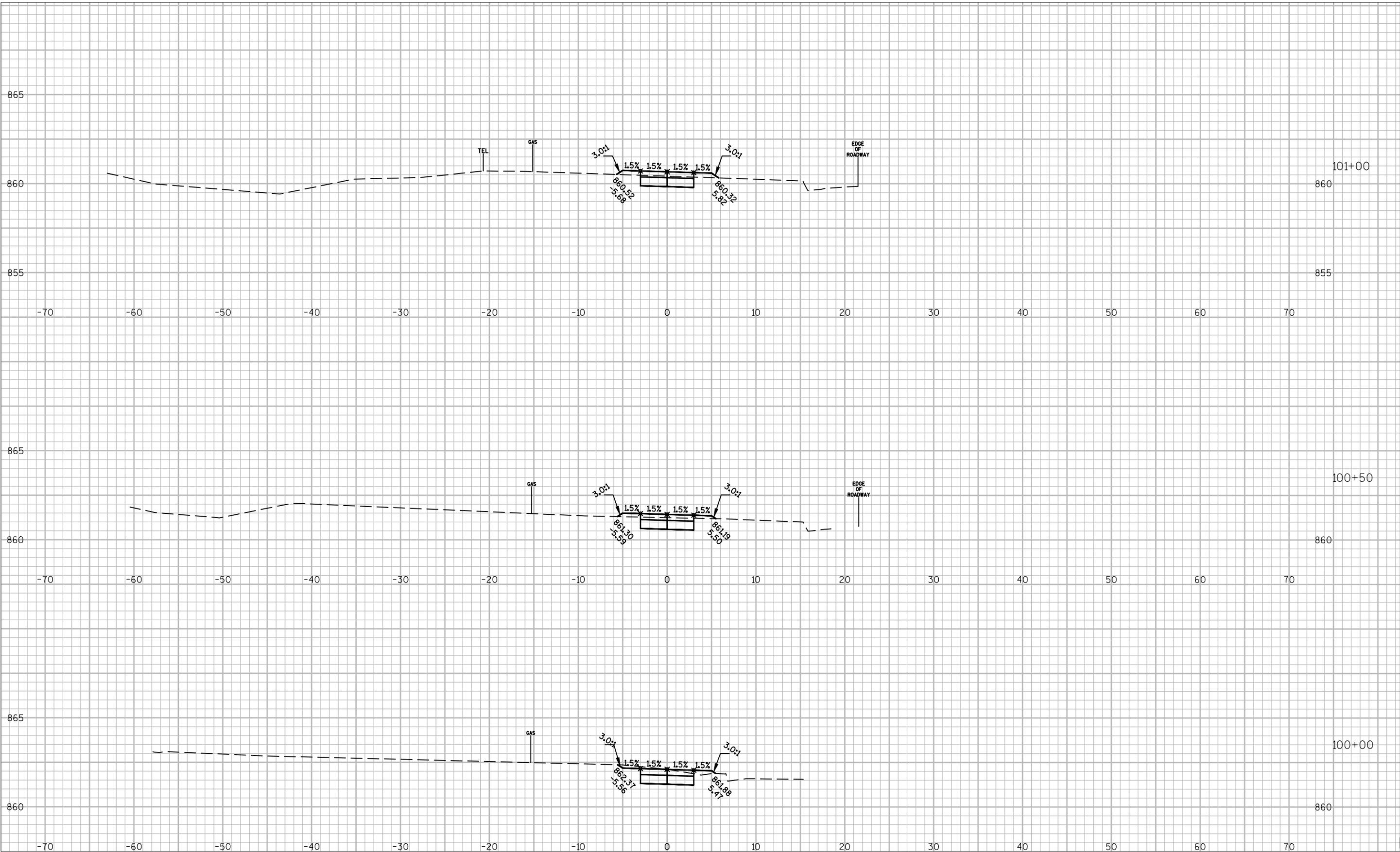


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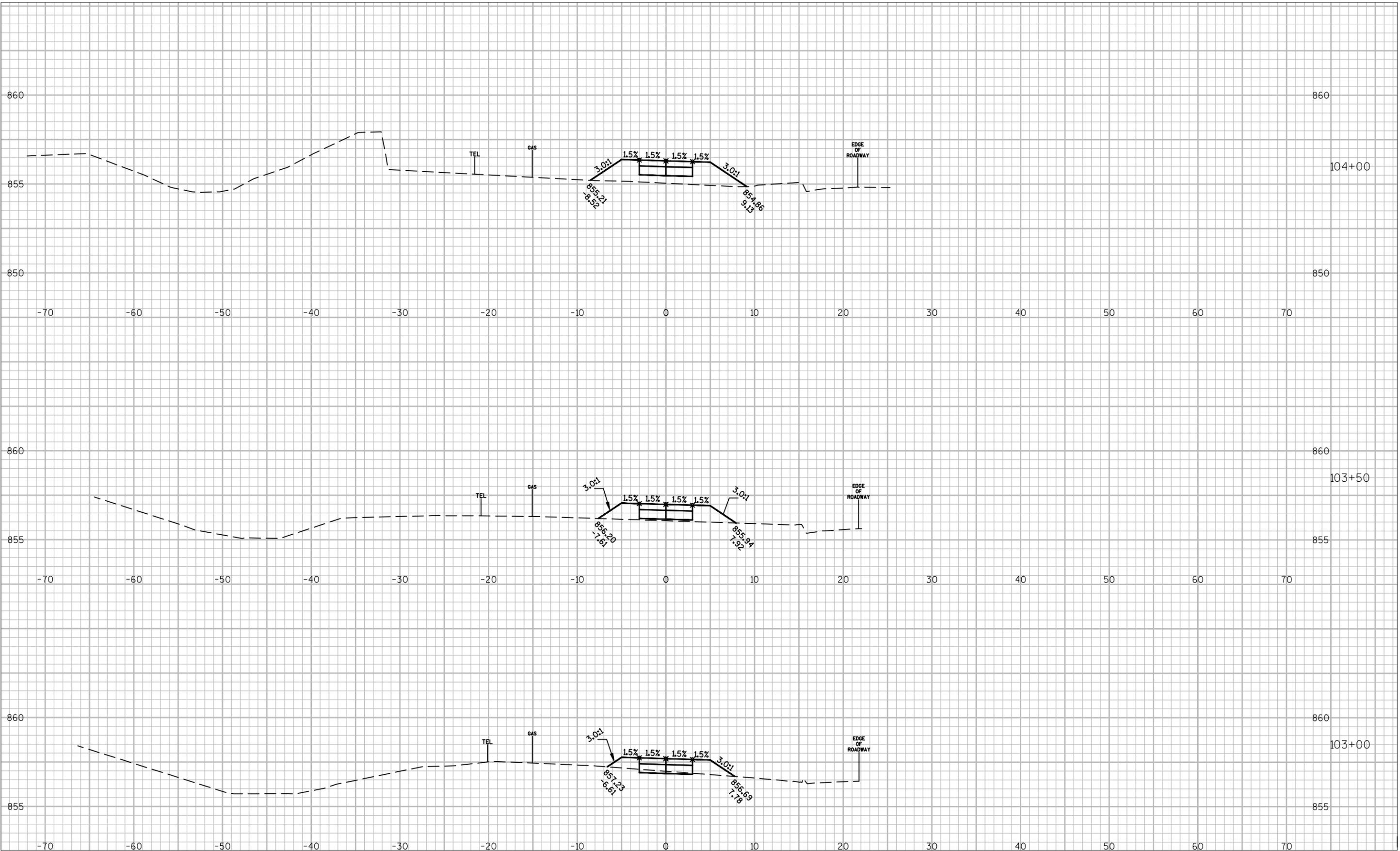
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PLOT DATE : 10/20/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number

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 PLOT BY : HEATHER STABO
 SHEET SET : 5.00
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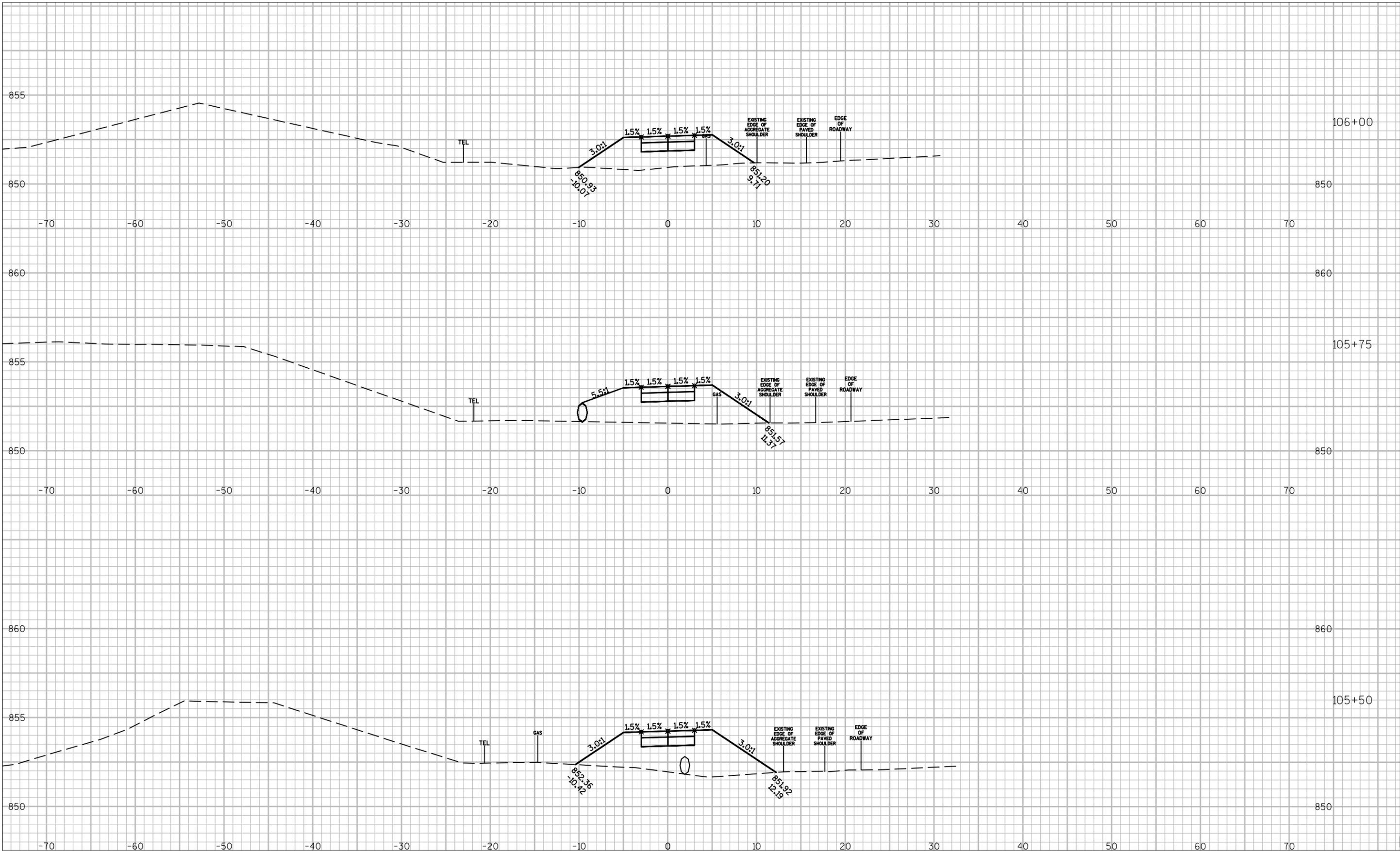


**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**



CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number

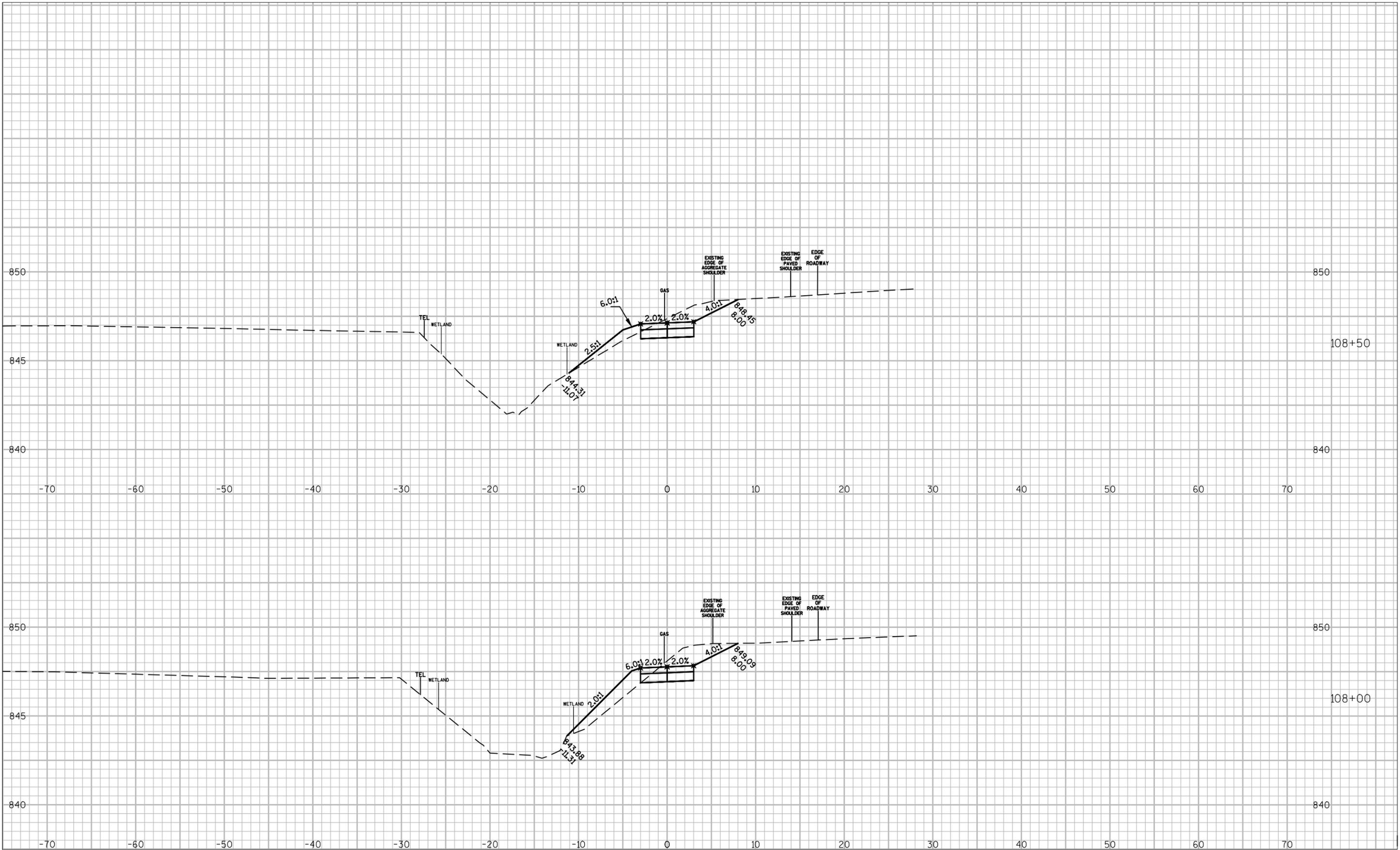
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CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number

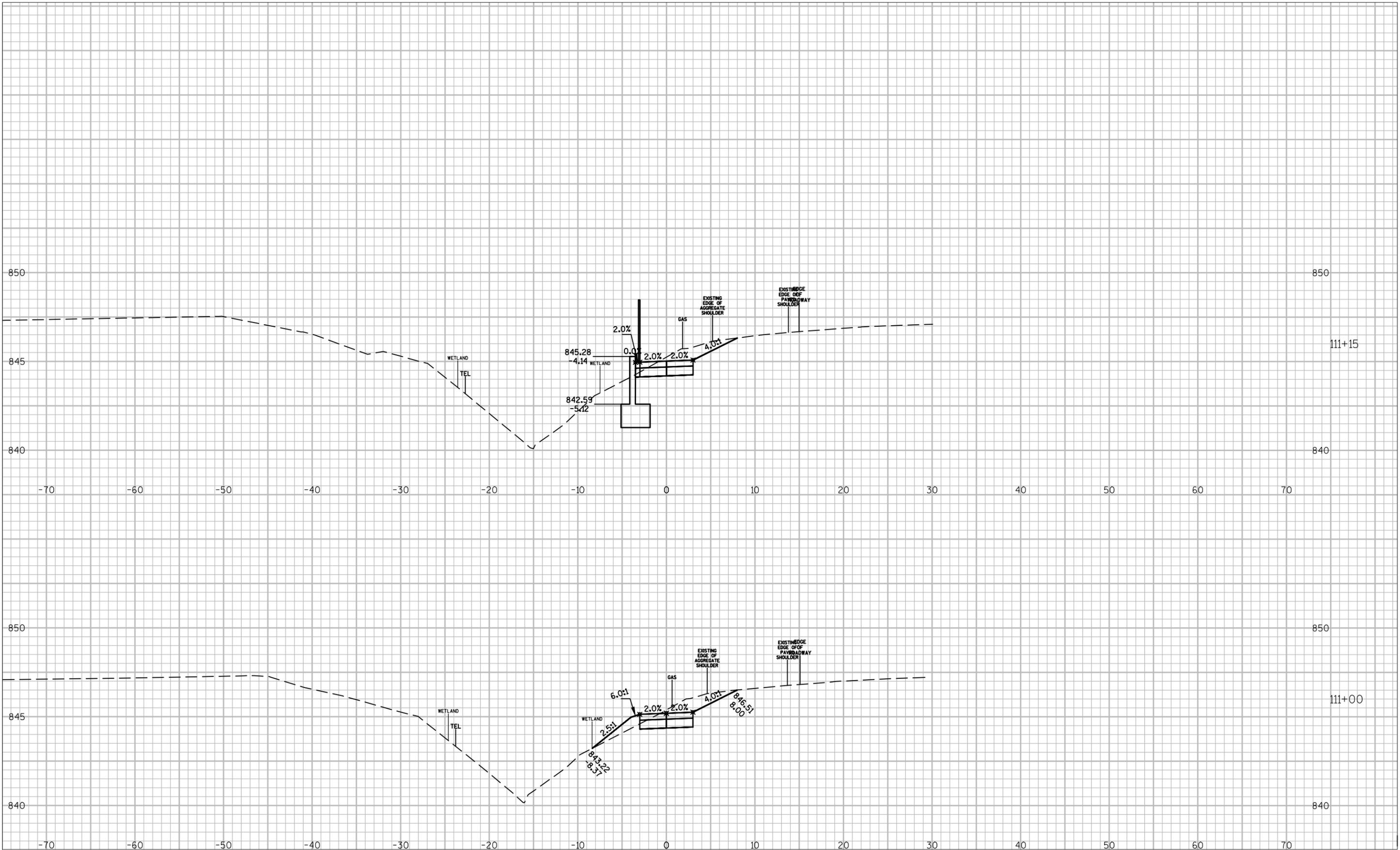
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PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson\3372-Sheets\Plan\ss.dwg
PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



STONEWALL CONNECTION TRAIL RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

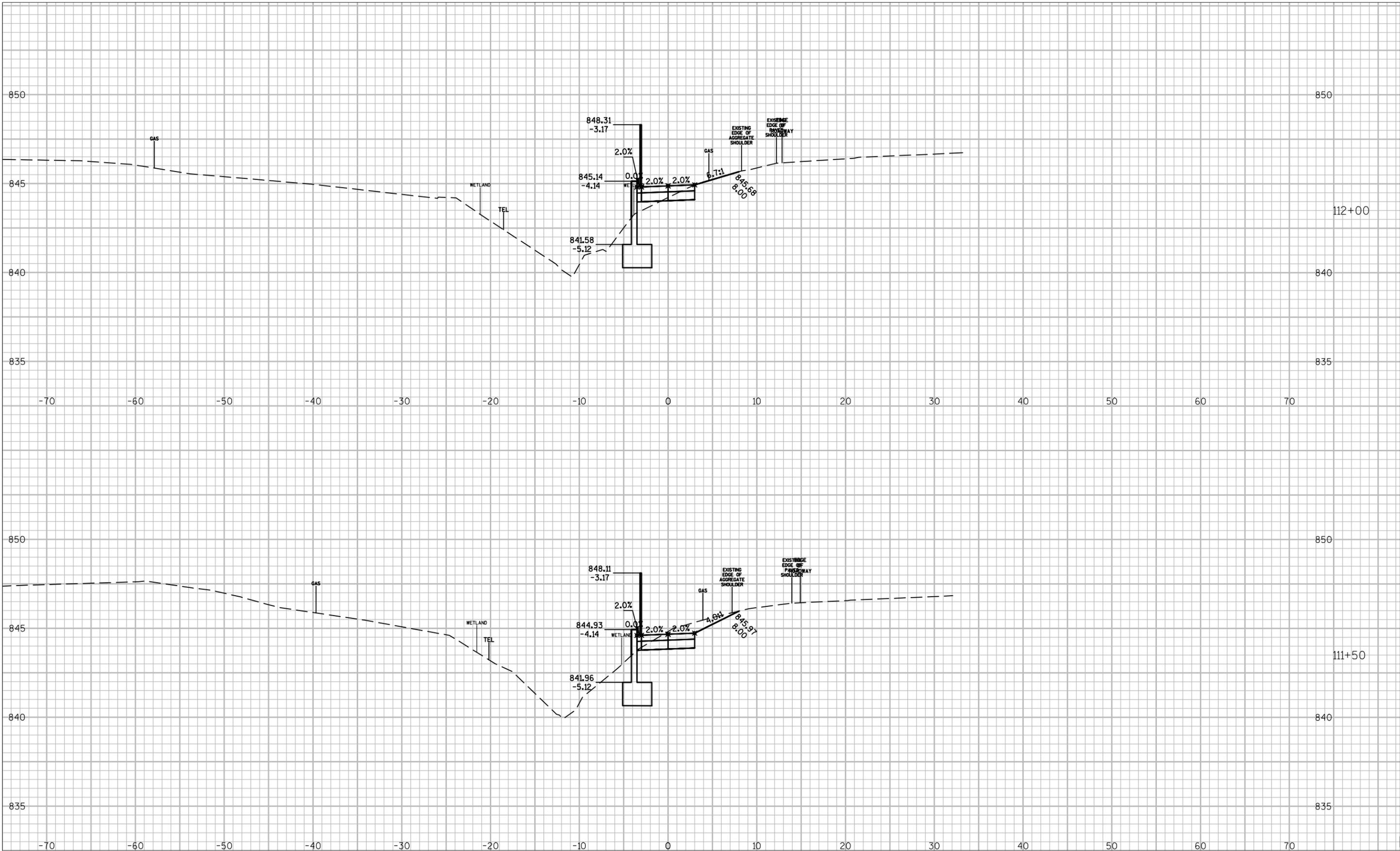
CROSS SECTIONS

Date
8/26/16

Designer Technician Approval Sheet Number

HAS HAS ---

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

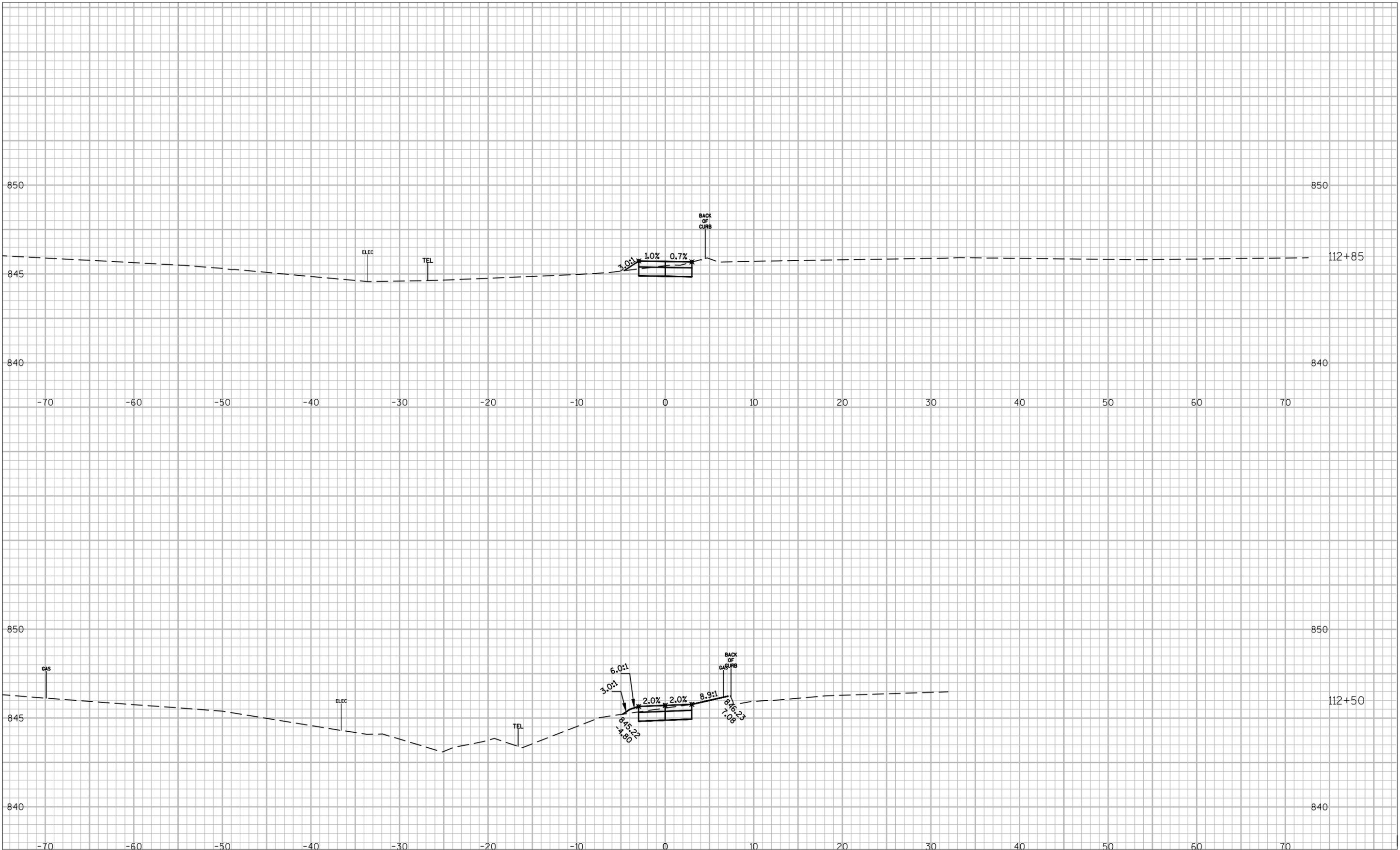


**STONEWALL CONNECTION TRAIL
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number



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



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

Public Works Report

August 30, 2016

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

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.
November	Avg. Flow 696,800 g.p.d.	Min. Flow 494,000 g.p.d.	Max. 1.583 MGD
December	Avg. Flow 897,258 g.p.d.	Min. Flow 616,000 g.p.d.	Max. 1.799 MGD

Year 2016

January	Avg. Flow 611,323 g.p.d.	Min. Flow 451,000 g.p.d.	Max. 924,000 g.p.d.
February	Avg. Flow 640,793 g.p.d.	Min. Flow 496,000 g.p.d.	Max. 851,000 g.p.d.
March	Avg. Flow 821,839 g.p.d.	Min. Flow 567,000 g.p.d.	Max. 1.463 MGD
April	Avg. Flow 718,000 g.p.d.	Min. Flow 563,000 g.p.d.	Max. 1.079 MGD
May	Avg. Flow 615,000 g.p.d.	Min. Flow 490,000 g.p.d.	Max. 937,000 g.p.d.
June	Avg. Flow 622,700 g.p.d.	Min. Flow 513,000 g.p.d.	Max. 892,000 g.p.d.
July	Avg. Flow 690,935 g.p.d.	Min. Flow 457,000 g.p.d.	Max. 1.074 MGD

Years Summary of Water Consumption

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	2015 Total Pumpage 222,621,000 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
Nov	Avg.	492,630 g.p.d.	Highest Day 599,000 gals	Total	14,779,000 gallons
Dec	Avg.	555,480 g.p.d.	Highest Day 637,000 gals	Total	17,220,000 gallons

Year 2016

Jan.	Avg.	580,680 g.p.d.	Highest Day 734,000 gals.	Total	18,001,000 gallons
Feb.	Avg.	603,930 g.p.d.	Highest Day 710,000 gals.	Total	17,514,000 gallons
March	Avg.	586,650 g.p.d.	Highest Day 693,000 gals.	Total	18,186,000 gallons
April	Avg.	660,200 g.p.d.	Highest Day 1.021 MGD	Total	19,806,000 gallons
May	Avg.	681,130 g.p.d.	Highest Day 997,000 gals.	Total	21,115,000 gallons
June	Avg.	781,870 g.p.d.	Highest Day 1.113 MGD	Total	23,456,000 gallons
July	Avg.	865,610 g.p.d.	Highest Day 1.046 MGD	Total	26,834,000 gallons

Pump Capacity - Well #1- 400 g.p.m. 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	2006	\$101,115.11	2007	\$152,201.07	2008	\$210,441.47
2009	\$183,815.34	2010	\$197,653.66	2011	\$220,576.28	2012	\$236,224.70
2013	\$235,336.46	2014	\$203,938.32	2015	\$210,644.47		

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
November	1,336,300			36,200	343,035	\$20,046.14
December	1,610,500			31,200	234,700	\$19,194.26

2016	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,359,400			3,500	47,700	\$11,528.02
Feb	1,443,000			1,500	31,350	\$11,666.26
March	1,515,950			5,600	102,900	\$14,166.14
April	1,600,500			25,000	284,250	\$20,110.01
May	1,560,350			24,000	246,200	\$18,817.63
June	1,551,600			49,100	257,900	\$20,048.50
July	1,195,900			21,850	278,400	\$16,803.25

Cranberry Creek Phase 4

The first building is being occupied and all punch list items are being completed.

Final Lift for Developed Subdivisions

Still working on the final lift of asphalt in Stonewall Ridge Development phase 2, English Oaks, and Laurel Springs this year. Walked Laurel Springs Subdivision Phase 1 on Tuesday, July 19th with Payne & Dolan rep to determine what first lift of asphalt needs to be removed along with curbing.

Rosewood Drive/TIF #4 Expansion Project

The property still has the potential of being developed. Lawsuit is pending.

Laurel Springs Subdivision

The Developer (Bielinski Homes) is working on quotes to pave the final lift asphalt this year. No change.

GIS Program

Town and Country Engineering have started the process for the GIS system upgrade. The necessary license has been purchased to continue with the new mapping. We are finalizing user names to access to the maps.

Storm Water Management Plan

The ordinance is being finalized to be incorporated into the new Village Code. We will have a presentation at the September PW meeting.

SCADA Upgrade Project

Staff is meeting with Town & Country Engineering to finalize the bid documents. The project will be advertised in late 2016. The team is still working on finalizing the necessary documents.

Wilshire Drive Project LRIP

The street lights electric services have been scheduled for August 31st. The poles have not arrived and are scheduled for mid-September. We are finalizing all pay items to create the final assessment.

Space Needs Analysis Study

Cedar Corp team did a great job with the study and will present at the August 30th meeting.

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