

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

October 6, 2015

To: Hamilton County Drainage Board

Re: Williams Creek Drain, O.F. Henley Arm, 146th Street Improvements Project Reconstruction

Attached are petition, plans, and other information for the proposed reconstruction of the O.F. Henley Arm of Williams Creek Drain, for the 146th Street Improvements from Ditch to Towne Road Project. The reconstruction was petitioned by the Hamilton County Highway Department. During the road improvement project construction, the O.F. Henley Arm, Williams Creek Drain, will be affected and those changes are as follows:

The project will reconstruct a portion of the O.F. Henley Arm from Sta. 13+70 to Sta. 35+03 per the original 1981 legal description. The reconstruction will start at Sta.13+70, which is the southern end of the RCP previously replaced under 146th Street, and replace the existing 2 rows of 10" tile with an open ditch, to Sta. 35+03, which is the outlet in to the detention pond in Saddle Creek Subdivision. The details of the 2,120 feet of open ditch are as shown in the plans for the OF Henley Drain Maintenance set, designed by Beam, Longest, and Neff, LLC, dated January 30, 2015.

Project Summary:

The total change to the Williams Creek Drain, O.F. Henley Arm length is a decrease of 13 feet due to a slightly different alignment verse the original tile location.

The reconstruction is to be constructed by and paid by the Hamilton County Highway Department.

Since the petitioner is the Hamilton County Highway Department and is being performed under public bid process, no bond is required for the relocation/reconstruction work.

Work will be completed in the easement of the following parcels:

Parcel	Owner
17-09-21-00-00-003.000	Hoffman Farm Holdings 2 LLC
17-09-21-00-14-029.000	Saddle Creek Homeowners Association, Inc.
146 th Street ROW	Hamilton County Highway Department

The maintenance of four box culverts being installed at the request of the property owner for farm equipment access crossing will be the responsibility of the property owner as per IC 36-9-27-72(d). The Drainage Board will only be responsible for emergency debris removal to ensure flow is maintained through the open ditch.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

The easement for this drain shall be as shown on Exhibit B of the document recorded in the Office of the Hamilton County Recorder as instrument number 2015051602, recorded on September 29, 2015.

I recommend the Board set a hearing for this proposed drain reconstruction for November 23, 2015.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

IN THE MATTER OF THE O. F. HENLEY DRAIN
HAMILTON COUNTY DRAINAGE BOARD

Come now the Board of Commissioners of Hamilton County, who petition the Hamilton County
Drainage Board as follows:

1. They are the duly elected Board of Commissioners of Hamilton County, Indiana.
2. That in that capacity they are responsible for the drainage of public highways.
3. That they now desire that a regulated drain be reconstructed in Clay Township which
Involves 146th Street and various areas surrounding this road in the drainage shed.
4. The names and address of each owner affected by the proposed public drainage are attached hereto,
made a part hereof, and marked Exhibit "A", which area of land involved in the proposed drainage
area is located in Section 21, Township 18 north, Range 3 east, Hamilton County, Indiana.
5. No other public lands or owners are located in the area which would affect improvement.
6. That the general route of the proposed drain is within the existing regulated drain easement.
7. That in the opinion of the Petitioner, the costs, damages, and expenses of the proposed improvement
will be less than the benefits which will result to the owners of the land to be benefited thereby.
8. That in the opinion of the Petitioner, the proposed improvement will benefit a public highway in
Hamilton County, Indiana.
9. That the name of the attorney representing Petitioner in the drainage petition is Michael Howard,
694 Logan St., P.O. Box 410, Noblesville, Indiana.
10. That Petitioners shall pay the cost of notice and all legal costs if the Petition is dismissed.
11. Petitioner shall post a bond, if required, to pay the cost of notice and all legal costs in the case the
improvement is not established.

Board of Commissioners of
Hamilton County, Indiana

BY: *[Signature]*
President

BY: *[Signature]*
Member

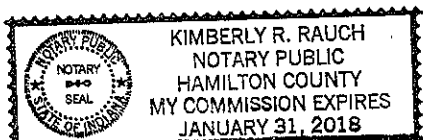
BY: *[Signature]*
Member

Attest:

[Signature]
Dawn Coverdale/Auditor of Hamilton County

STATE OF INDIANA)
) SS:
COUNTY OF HAMILTON)

Subscribed and sworn to before me, A Notary Public this 14 day of December 2015.



[Signature]
Notary Public of Hamilton County

My Commission Expires:

1-31-2018

Exhibit A

Saddle Creek Homeowners Association, Inc.
4630 Lisborn Drive
Carmel, IN. 46033

Hoffman Farm Holdings 2, LLC.
1 American Square
Suite 2900
Indianapolis, IN. 46282

Hamilton County Highway Department
1700 S 10th Street
Noblesville, IN 46060

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
*Williams Creek Drain, O. F. Henley Arm, 146th Street Improvements
Project Reconstruction*

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *Williams Creek Drain, O. F. Henley Arm, 146th Street Improvements Project Reconstruction* came before the Hamilton County Drainage Board for hearing on *November 23, 2015*, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

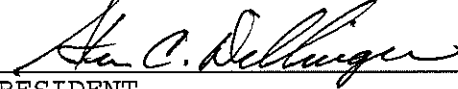
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

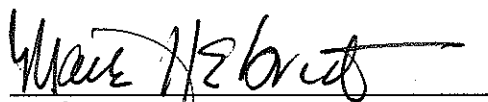
Wherefore, it is ORDERED, that the proposed Reconstruction of the *Williams Creek Drain, O. F. Henley Arm, 146th Street Improvements Project Reconstruction* be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD


PRESIDENT


Member


Member

ATTEST: 
Executive Secretary

AUG 14 2015

Date: 01/30/2015
Time: 08:21:49

PRICING REPORT

Project: **West 146th Street Legal Drain Project**
 Location: **Towne Road to Ditch Road**
 County: **HAMILTON**
 District: **Greenfield**

OFFICE OF HAMILTON COUNTY SURVEYOR

Project ID: **OF HENLEY DRAIN**
 Bid Date: **12/08/2014** State: **IN**
 Route: **146th Street**

Sect	Pay Item	Description	Quantity	Unit	Bid Price	Extension	Alt
100	105-06845	construction engineering	1.000	L.S.	6,000.00	6,000.00	
100	110-01001	mobilization and demobilization	1.000	L.S.	15,000.00	15,000.00	
GENERAL PROVISIONS SUBTOTALS						21,000.00	6.1%
200	201-52370	clearing right of way	1.000	L.S.	15,000.00	15,000.00	
200	202-96133	pipe, remove	22.000	L.F.	21.00	462.00	
200	203-02000	excavation, common	7,740.000	C.Y.	17.13	132,586.20	
200	205-03371	sediment, remove {(undistributed)}	40.000	C.Y.	24.30	972.00	
200	205-06936	temporary sediment trap	17.000	TON	104.00	1,768.00	
200	205-09543	no 2 stone {(undistributed)}	162.000	TON	25.00	4,050.00	
200	211-09268	structural backfill, type 5	124.000	C.Y.	97.84	12,132.16	
EARTHWORK SUBTOTALS						166,970.36	48.3%
600	616-02320	geotextiles	619.000	SYS	2.53	1,566.07	
600	616-06405	riprap, revetment	140.000	TON	44.86	6,280.40	
600	621-01004	mobilization and demobilization for seeding	1.000	EACH	441.75	441.75	
600	621-02770	erosion control blanket	12,341.000	SYS	1.10	13,575.10	
600	621-04258	seed mixture	175.000	LBS	61.25	10,718.75	
600	621-06545	fertilizer	9.000	TON	799.42	7,194.78	
600	621-06565	mulching material	27.000	TON	365.13	9,858.51	
INCIDENTAL CONSTRUCTION SUBTOTALS						49,635.36	14.4%
700	704-09031	articulating concrete mattress	392.000	SYS	133.13	52,186.96	
700	714-11102	structure, reinforced concrete box sections, 5 ft x 2 ft	128.000	L.F.	335.87	42,991.36	
STRUCTURES SUBTOTALS						95,178.32	27.5%
800	801-03290	construction sign, c	2.000	EACH	170.18	340.36	
800	801-06640	construction sign, a	4.000	EACH	147.22	588.88	

PRICING REPORT

Date: 01/30/2015
Time: 08:21:49

Project: **West 146th Street Legal Drain Project**
Location: **Towne Road to Ditch Road**
County: **HAMILTON**
District: **Greenfield**

Project ID: **OF HENLEY DRAIN**
Bid Date: **12/08/2014** State: **IN**
Route: **146th Street**

Sect	Pay Item	Description	Quantity	Unit	Bid Price	Extension	Alt
800	801-06775	maintaining traffic	1.000	L.S.	12,000.00	12,000.00	
TRAFFICE CONTROL DEVICES AND LIGHTING SUBTOTALS						12,929.24	3.7%

TOTALS						345,713.28	100.0%
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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

*Williams Creek Drain, O. F. Henley Arm
146th Street Improvements Project Reconstruction*

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Williams Creek Drain, O. F. Henley Arm, 146th Street Improvements Project Reconstruction on November 23, 2015 at 9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

STATE OF INDIANA)
) SS BEFORE THE HAMILTON
)
COUNTY OF HAMILTON) DRAINAGE BOARD

IN THE MATTER OF Williams Creek Drain, O. F. Henley Arm,
146th Street Improvements Project Reconstruction

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **November 23, 2015** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

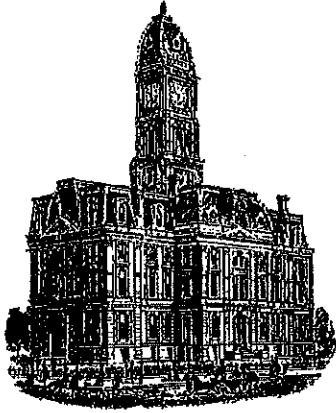
If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Steven C. Dillinger
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY

Kent



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

October 28, 2016

Re: Williams Creek Drain: O.F. Henley -146th Street Improvements Project Reconstruction

Attached are as-builts and other information for Williams Creek Drain: O.F. Henley -146th Street Improvements Project Reconstruction. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, there were no significant changes made to the drainage plans submitted with my report for this drain dated October 6, 2015. (See Drainage Board Minutes Book 15, Pages 359-360) Therefore, the length of the drain remains at **2,120 feet**. The project removed 2133 feet of existing tile. Thus, the overall length of drain was reduced by 13 feet.

The drainage easement for this project was recorded under instrument #2015051602. The project did not require the submission of sureties as it was paid for by the Hamilton County Highway Department.

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

Luther M. Cline

Luther M. Cline
New Construction Inspector

PROJECT	
CONTRACT	
DESIGNATION	

BOARD OF COMMISSIONERS
HAMILTON COUNTY



APPROVED

Christine Aitman

Date: 12.14.15

Christine Aitman

Steven C. Dillinger

Steven C. Dillinger

Mark Heirbyandt

Mark Heirbyandt

ATTEST

Dawn Coverdale

Date: 12.14.15

Dawn Coverdale, County Auditor

HAMILTON COUNTY
SURVEYOR'S OFFICE

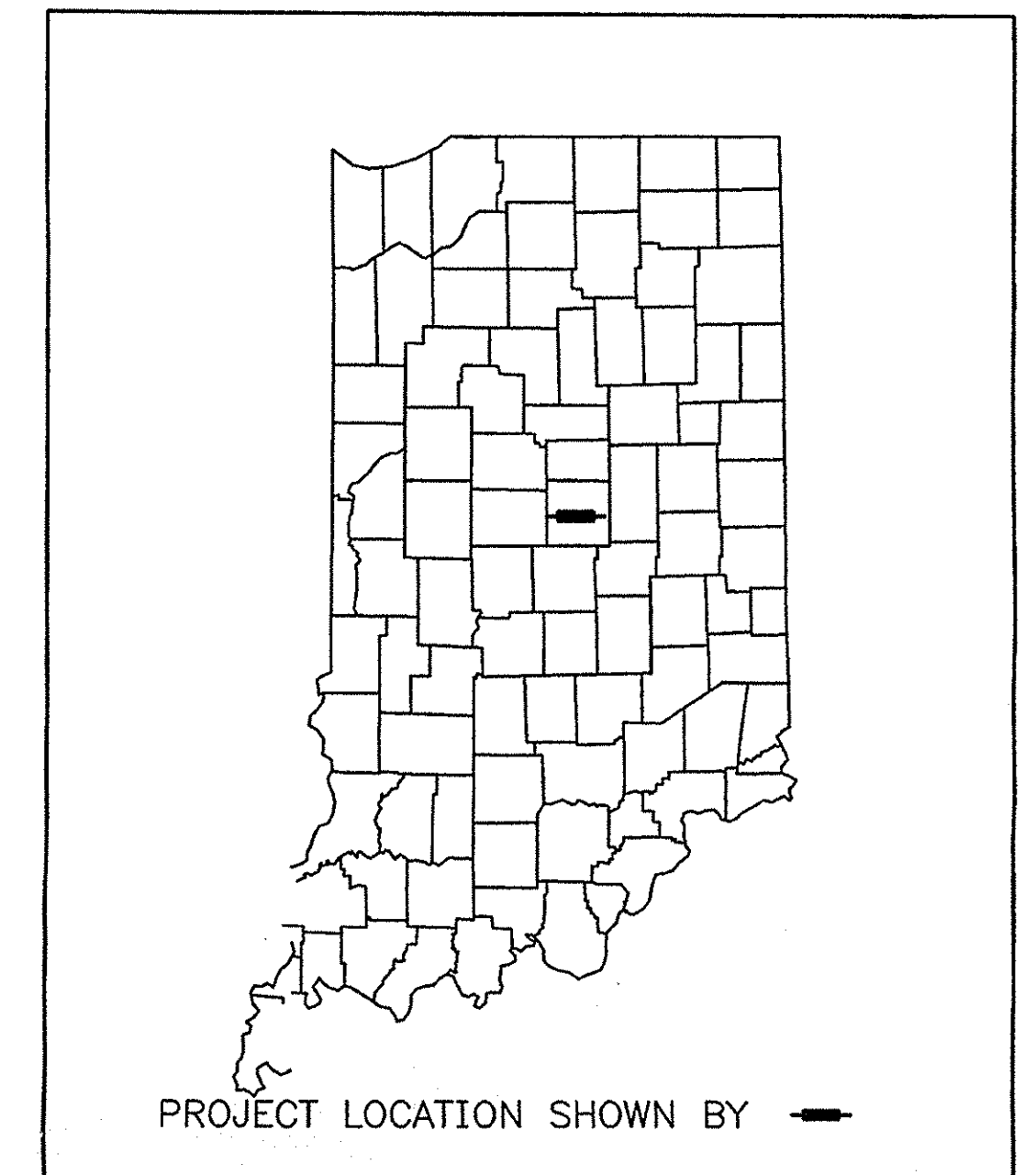
OF HENLEY DRAIN MAINTENANCE

MAINTENANCE OF OF HENLEY DRAIN BEGINNING AT THE EXISTING CULVERT UNDER 146TH STREET,
LOCATED APPROXIMATELY 0.28 MILE EAST OF TOWNE ROAD AND CONTINUING SOUTH FOR
APPROXIMATELY 2,145 FEET AND ENDING AT THE DETENTION POND IN SADDLE CREEK SUBDIVISION

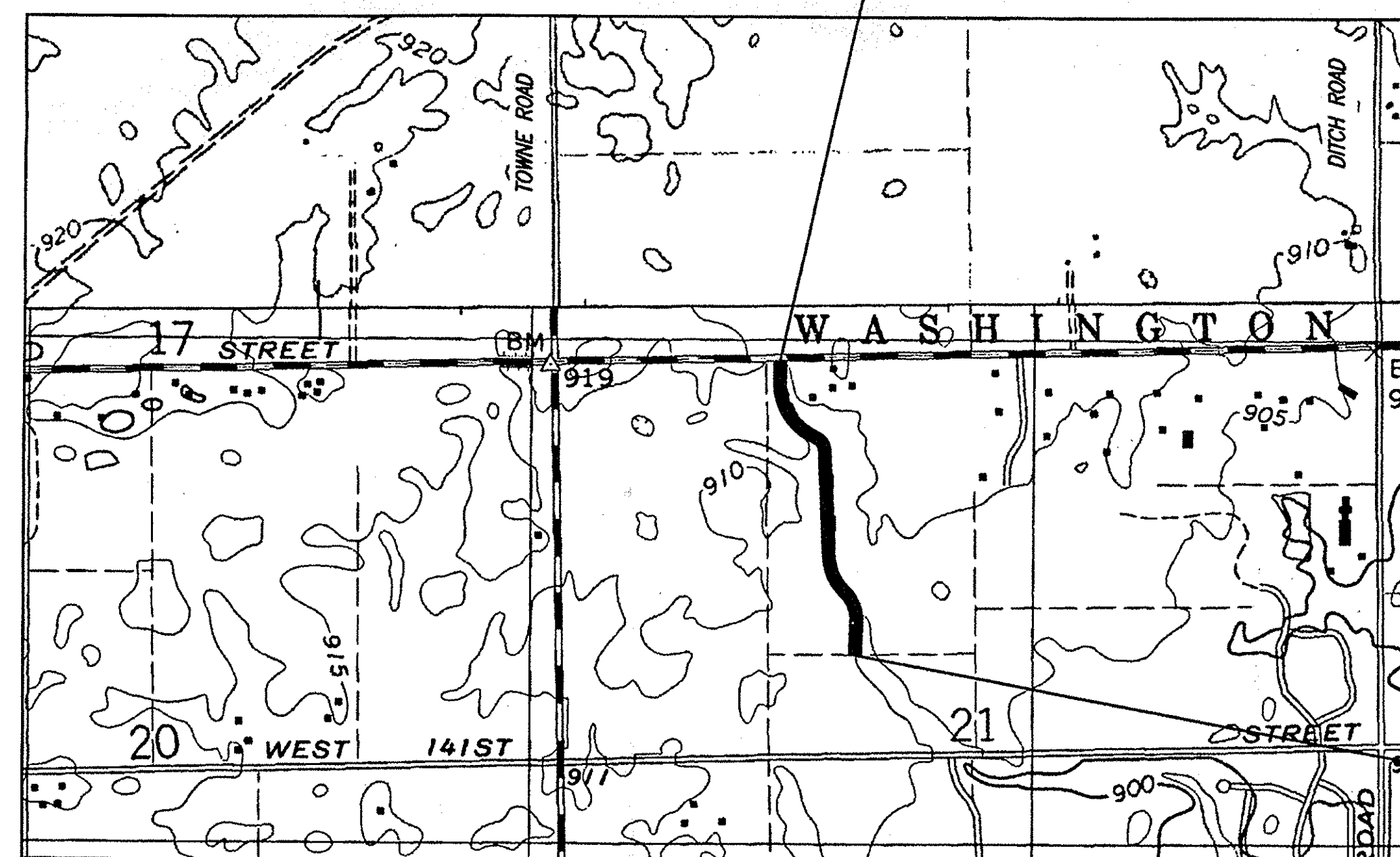
SECTION 21, T-18-N, R-3-E IN CLAY TOWNSHIP, HAMILTON COUNTY, INDIANA

LATITUDE: 39°59'49" N
LONGITUDE: 86°11'47" W

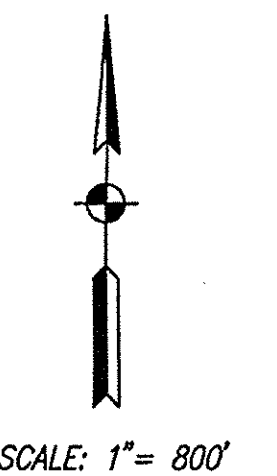
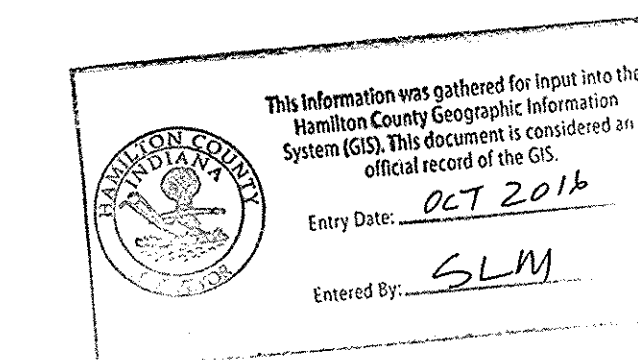
GROSS LENGTH: 2,145 feet
NET LENGTH: 2,145 feet
MAXIMUM GRADE: +0.20%



END PROJECT
STA. 31+83.15 LINE "PR-OFH"



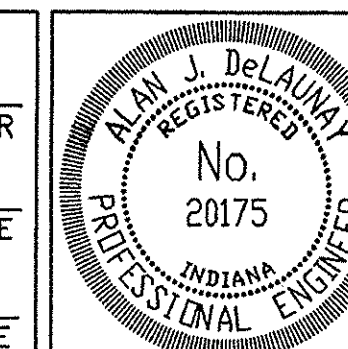
LOCATION MAP
Hamilton County



BEGIN PROJECT
STA. 10+37.44 LINE "PR-OFH"

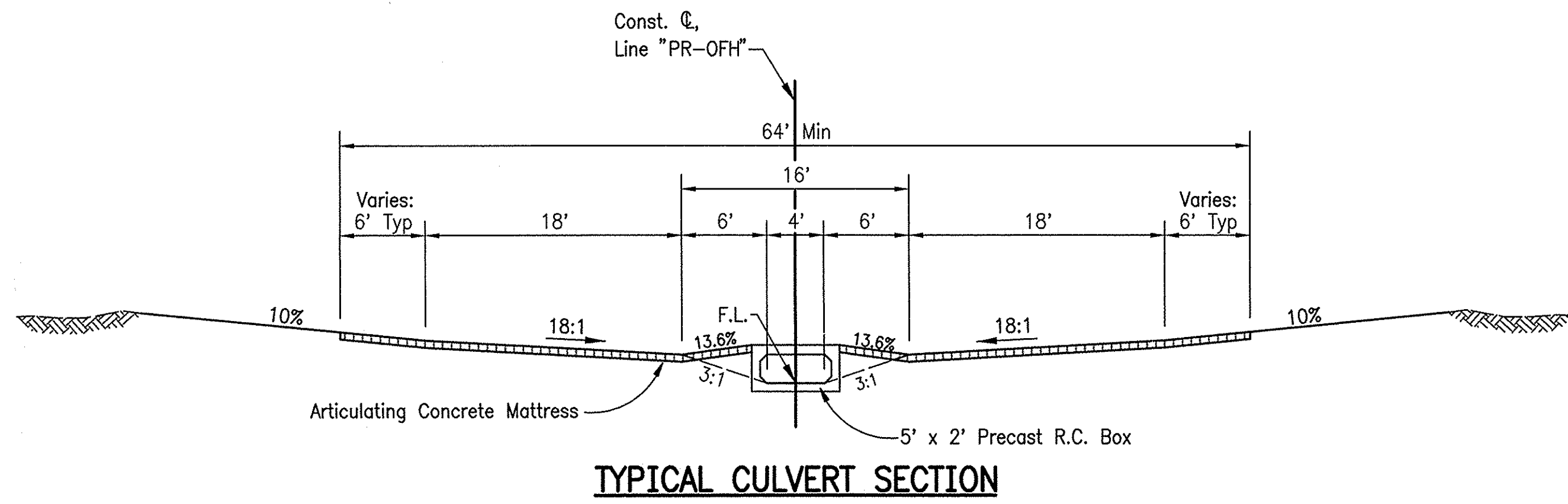
[INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2014 TO BE USED WITH THESE PLANS]

PLANS PREPARED BY: *Alan J. DeLaney* 317-849-5832 PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ DATE
CHIEF, DIVISION OF DESIGN

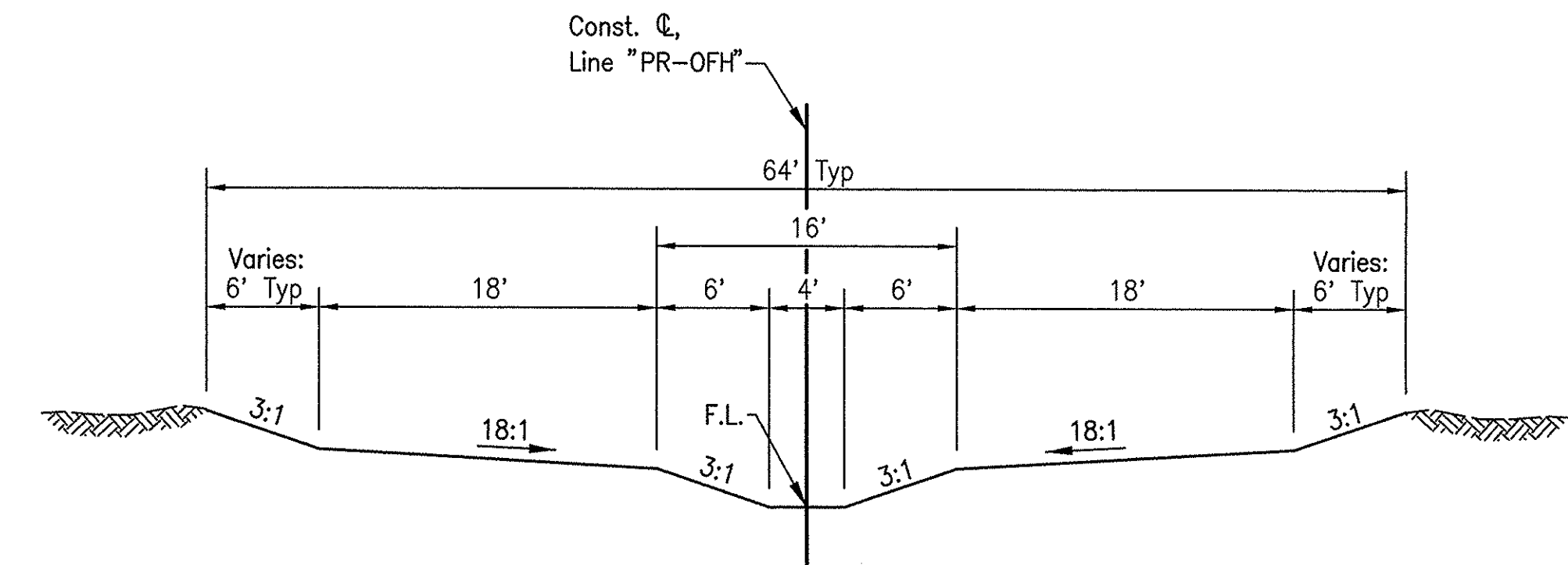


DESIGNATION
SHEETS
1 of 20
PROJECT

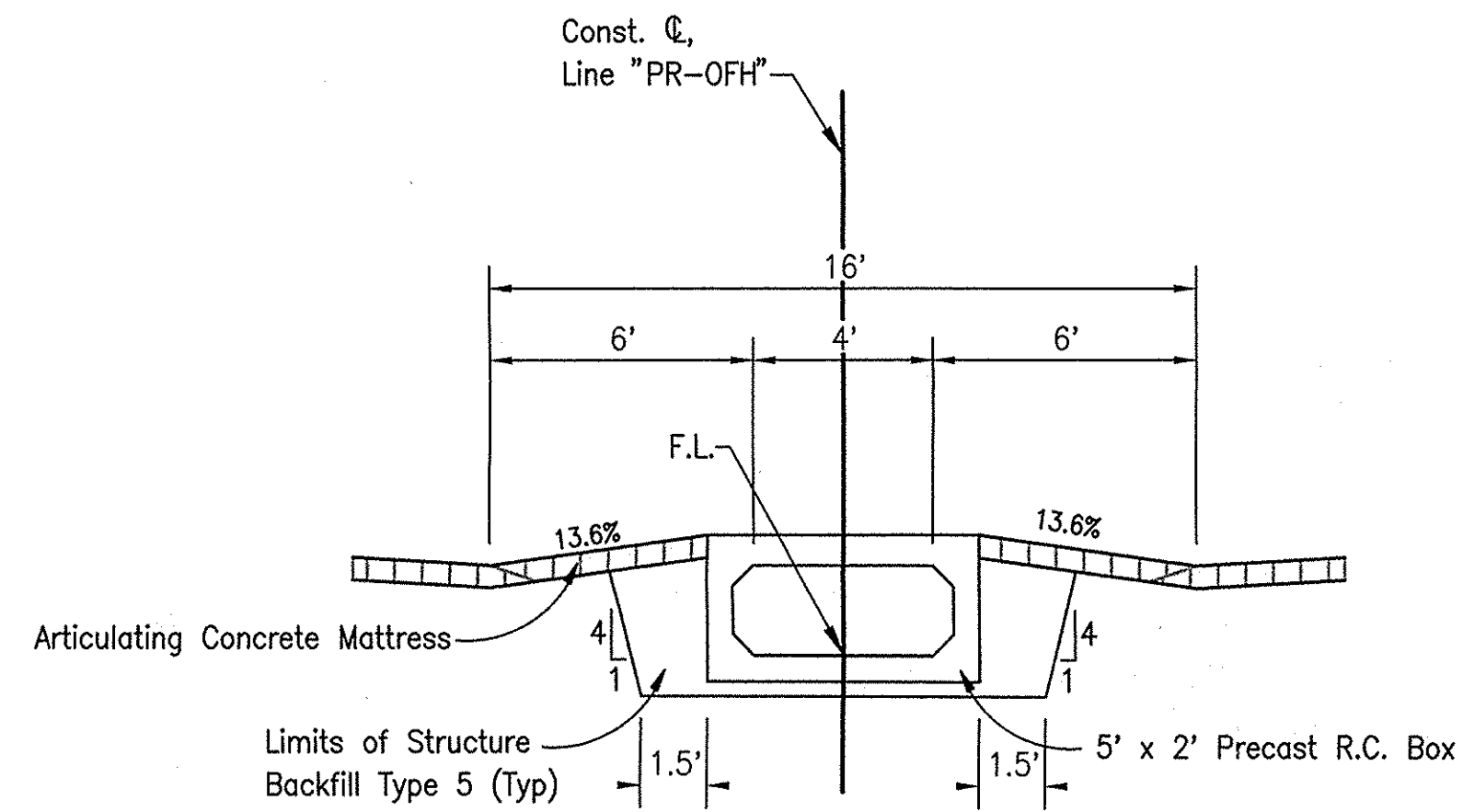
File Name: P:\1002\07-410\Draw\General_Sheets\Title.dwg Plot Date: 2/9/2015 Plotted By: Crossland, Matt



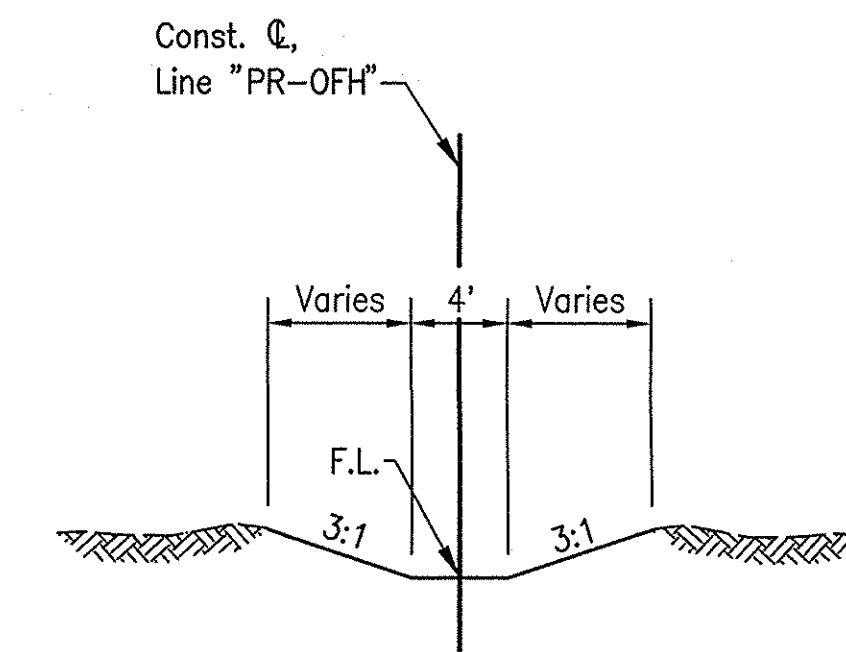
TYPICAL CULVERT SECTION



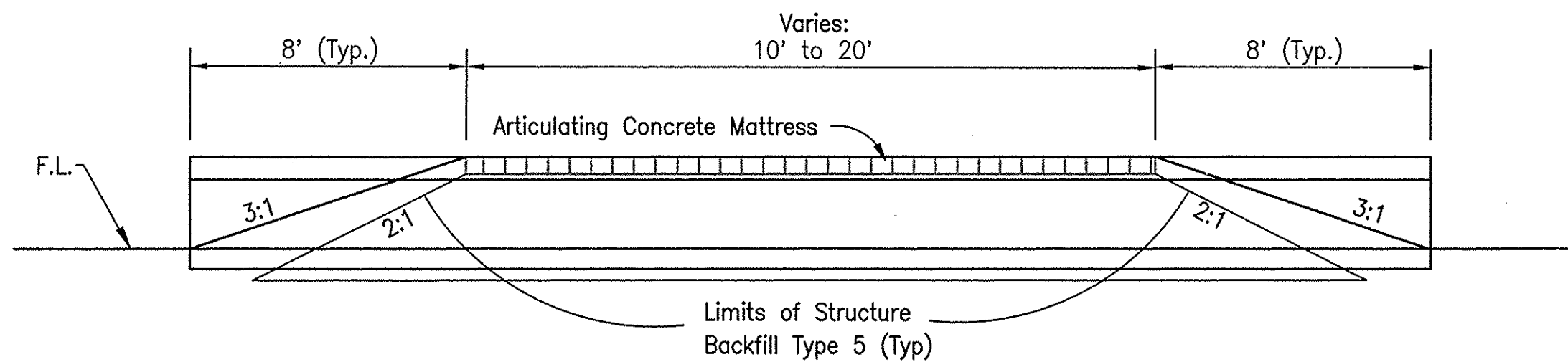
TYPICAL CROSS SECTION
STA. 10+40.00 "PR-OFH" TO STA. 23+07.00 "PR-OFH"



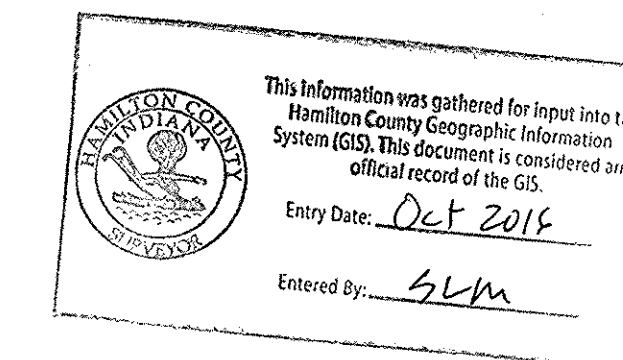
**TYPICAL CULVERT SECTION
BACKFILL LIMITS
(N.T.S.)**



TYPICAL CROSS SECTION
STA. 23+07.00 "PR-OFH" TO STA. 31+60.00 "PR-OFH"

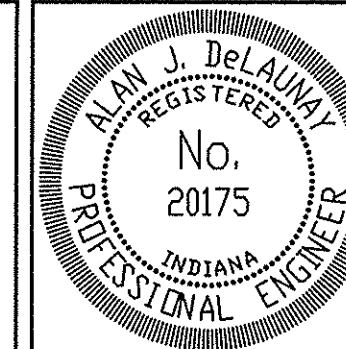


**TYPICAL DRIVE SECTION
BACKFILL LIMITS
(N.T.S.)**



FILED
OCT 25 2016
OFFICE OF HAMILTON COUNTY SURVEYOR

1/28/2015 1:00:00 AM L:\V\1071927\Draws\Henley Drain Plans\071007_Henley_CS_Sht_Typical_Bldg.dwg



RECOMMENDED FOR APPROVAL	<i>Alan J. DeLaunay</i>	1/30/2015
DESIGNED: JMJ	DRAWN: MAK	DATE
CHECKED: MAK	CHECKED: JMJ	

HAMILTON COUNTY SURVEYOR'S OFFICE

**TYPICAL CROSS SECTION
HENLEY DRAIN**

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION NO.
1/8" = 1'-0"	
SURVEY BOOK	SHEETS
Electronic	3 of 20
CONTRACT	PROJECT NO.

195 200 205 210 215 220 225 230 235 240 245 250 255

Sec 17, T-18-N, R-3-E
Washington Twp.
Hamilton County

Sec 16, T-18-N, R-3-E
Washington Twp.
Hamilton County

Sec 16, T-18-N, R-3-E
Washington Twp.
Hamilton County

MARY I. SCHRÖBER TRUSTEE

POLIZI FAMILY L.L.P.

STEVE POLIZI 2/3 INTEREST
and JOHN LEVINSON 1/3 INTEREST

RAYMOND M. HARWOOD
DEBORAH A. HARWOOD

MICHAEL A. MORONE
AND SALLY A. MARONE

ESTRIDGE DEVELOPMENT COMPANY/INC.

ROSS J. LAUFER AND CHRISTINA LAUFER

146th St.

146th St.

Line "A"

Line "A"

Line "A"

P.O.T. 179+60.26 "A" =
P.C. 179+60.26 "PR-1"

P.T. 187+74.69 "PR-2" =
P.O.T. 187+74.69 "A"

P.O.T. 32+08.72 "PR-OFH" =
P.O.T. 198+58.05 "A"

End Construction
Sta. 31+60.00 LINE "PR-OFH"

THOMAS P. MURPHY TRUSTEE

CB CHILDREN PARTNERSHIP

KARLON AGNES
TYNER
TRUSTEE

HOFFMAN FARM
HOLDING LLC

ALEXANDER M. LEVITT

CHAN HSIN S.
CHANG AND
YANA SUNG

JAMES R.
THOMPSON

MARK A. SEL AND
GINA D. SEL

ATUL BHARGAVA AND
RETA BHARGAVA

ESTRIDGE DEVELOPMENT COMPANY/INC.

SADDLE CREEK HOMEOWNERS
ASSOCIATION INC.

App. Regulated
Drain Esmt.

App. Regulated
Drain Esmt.

O.F. HENLEY REGULATED DRAIN

App. 1/4 Sec. Line

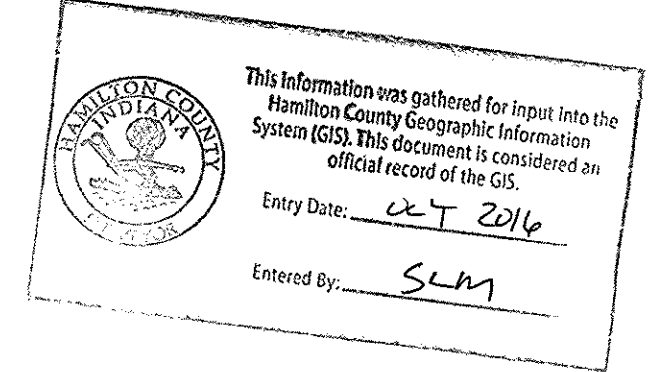
INDEX NO.
1
2

OWNER

McDonough, John E. III & Stephanie

Jordan, Horace Jr. & Wanda

Sec 21, T-18-N, R-3-E
Clay Twp.
Hamilton County



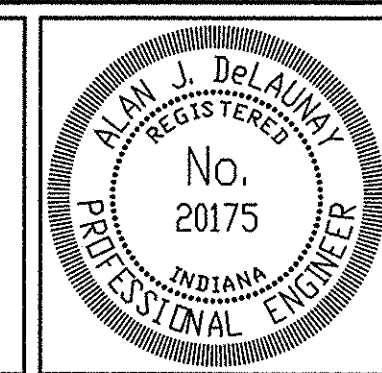
FILED
OCT 25 2015

Notes:

- Line "A" is also the Apparent Section Line.

Begin Construction
Sta. 10+40.00 LINE "PR-OFH"

1/28/2015 1:08:05 AM I:\P\071817\Plans\Survey\Drawn Plans\071817_Jimney_01_Sm_Plat.dgn



RECOMMENDED FOR APPROVAL *Alan J. DeLaunay* 1/30/2015
DESIGN ENGINEER DATE
DESIGNED: BSC DRAWN: JCO
CHECKED: KJR CHECKED: BSC

HAMILTON COUNTY
SURVEYOR'S OFFICE
PLAT No. 1

HORIZONTAL SCALE 1" = 200'	BRIDGE FILE N/A
VERTICAL SCALE None	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 4 of 20
CONTRACT	PROJECT NO.

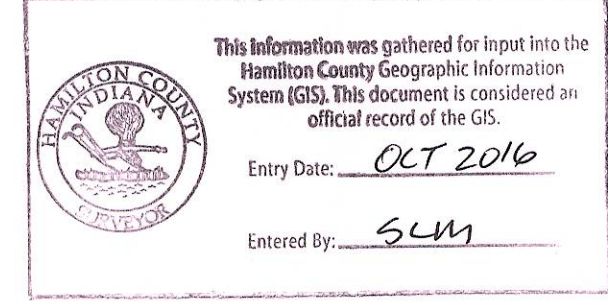
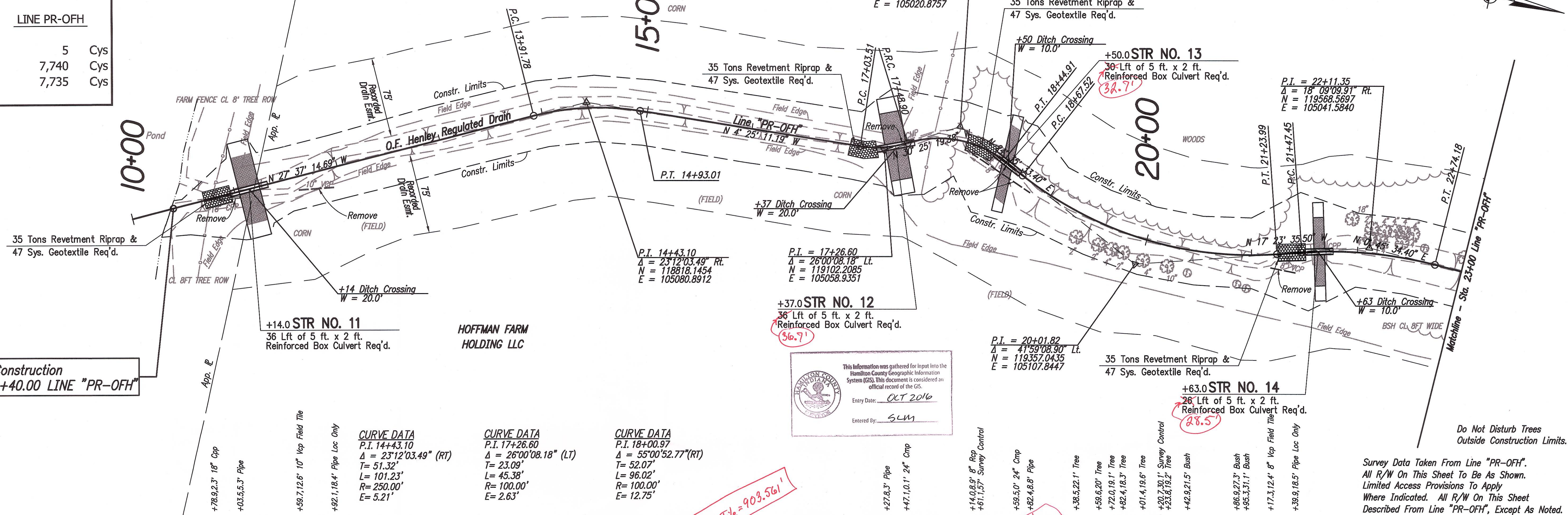
Clearing Right-of-Way includes all items within the Regulated Drain Easement and the Proposed Right-of-Way.

Sec 21, T-18-N, R-3-E
Clay Twp.
Hamilton County

EARTHWORK BALANCE		
LINE PR-OFH		
Fill + 25%	5	Cys
Common Excavation	7,740	Cys
Waste	7,735	Cys

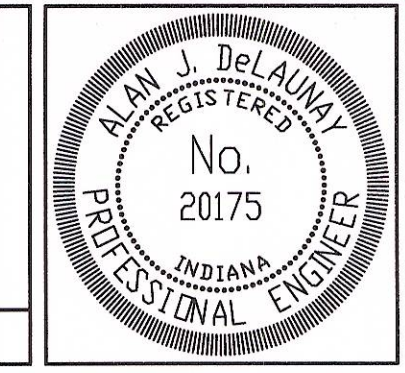
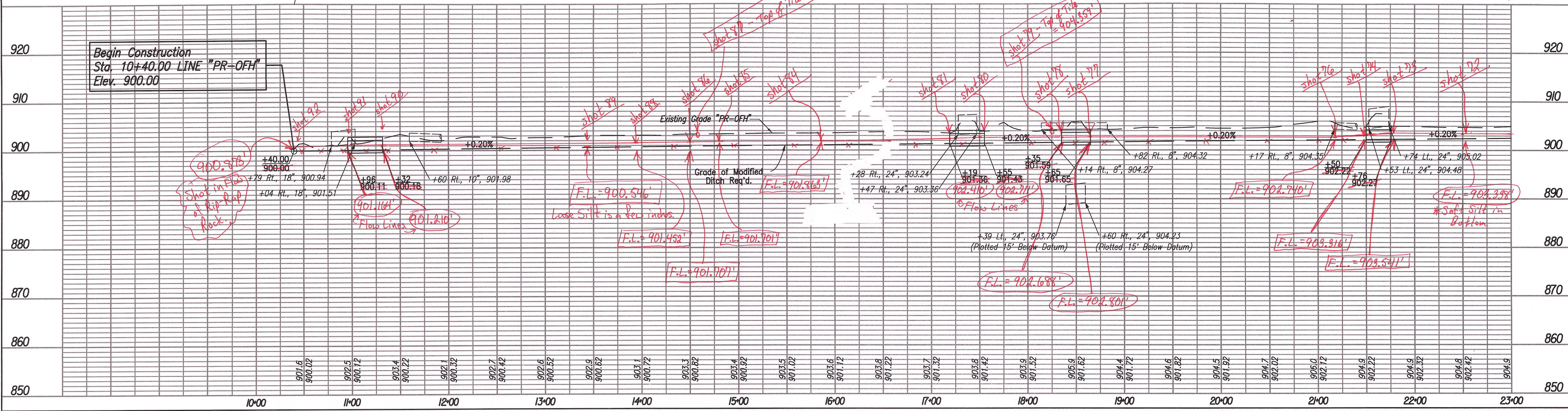
CURVE DATA
P.I. 20+01.82
 $\Delta = 41^{\circ}59'08.90''$ (LT)
T= 134.30'
L= 256.48'
R= 350.00'
E= 24.88'

CURVE DATA
P.I. 22+11.35
 $\Delta = 18^{\circ}09'09.91''$ (RT)
T= 63.90'
L= 126.73'
R= 400.00'
E= 5.07'



Begin Construction
Sta. 10+40.00 LINE "PR-OFH"

Begin Construction
Sta. 10+40.00 LINE "PR-OFH"
Elev. 900.00



RECOMMENDED FOR APPROVAL
Alan J. DeLaunay
DESIGN ENGINEER
DATE: 1/30/2015

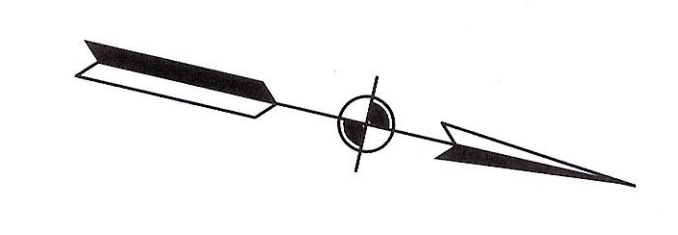
DESIGNED: JMJ
DRAWN: JCO
CHECKED: MAK
CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

PLAN AND PROFILE LINE "PR-OFH"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION NO.
SURVEY BOOK Electronic CONTRACT	SHEETS 5 of 20 PROJECT NO.

12/8/2015 1:28:50 PM I:\PROJECTS\Plans\Henley_Drain_Plan\1807_Henley_07_Sht_Plan\Profile.dwg



Sec 16, T-18-N, R-3-E
Washington Twp.
Hamilton County

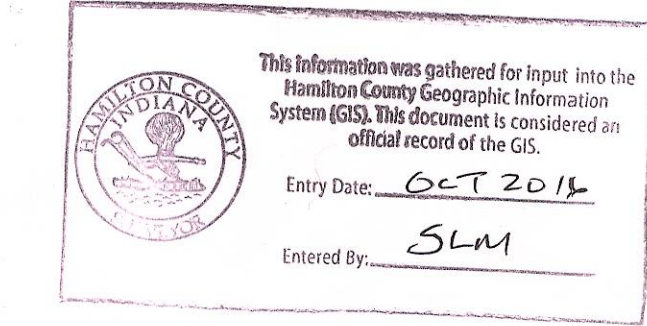
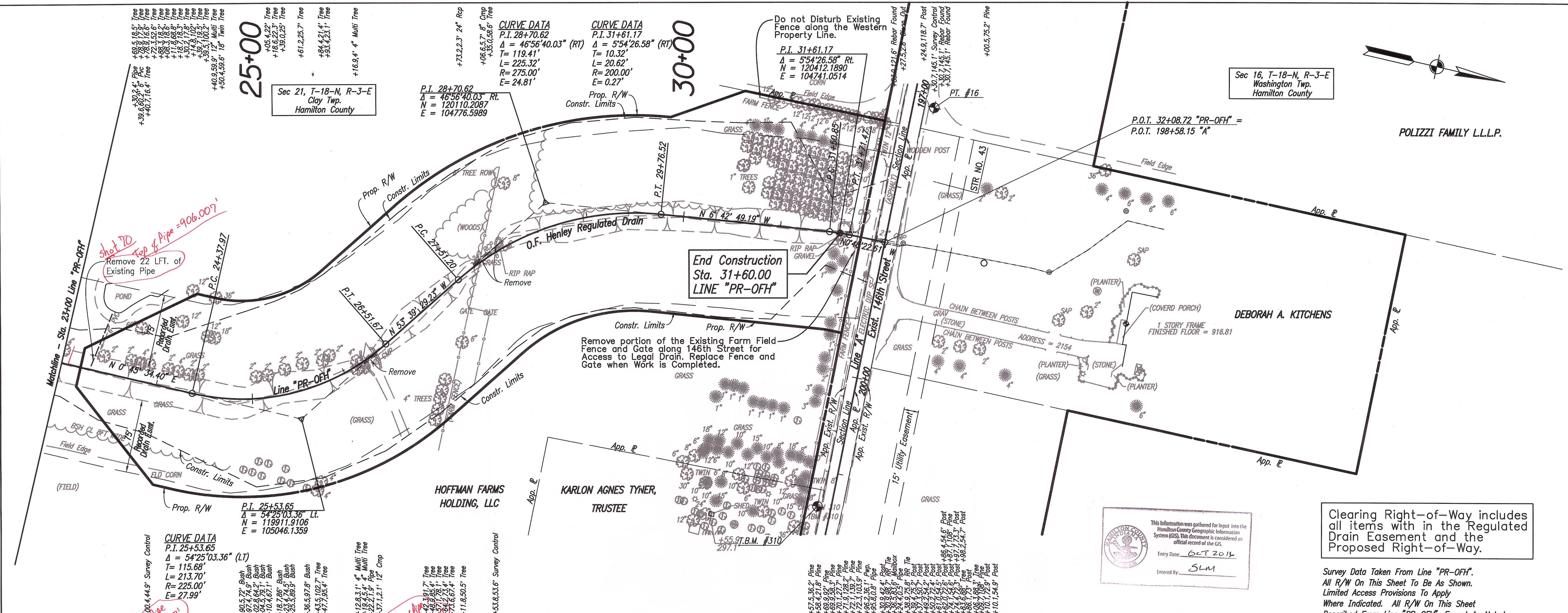
POLIZZI FAMILY L.L.P.

DEBORAH A. KITCHENS
1 STORY FRAME
FINISHED FLOOR = 916.81

KARLON AGNES TYNER,
TRUSTEE

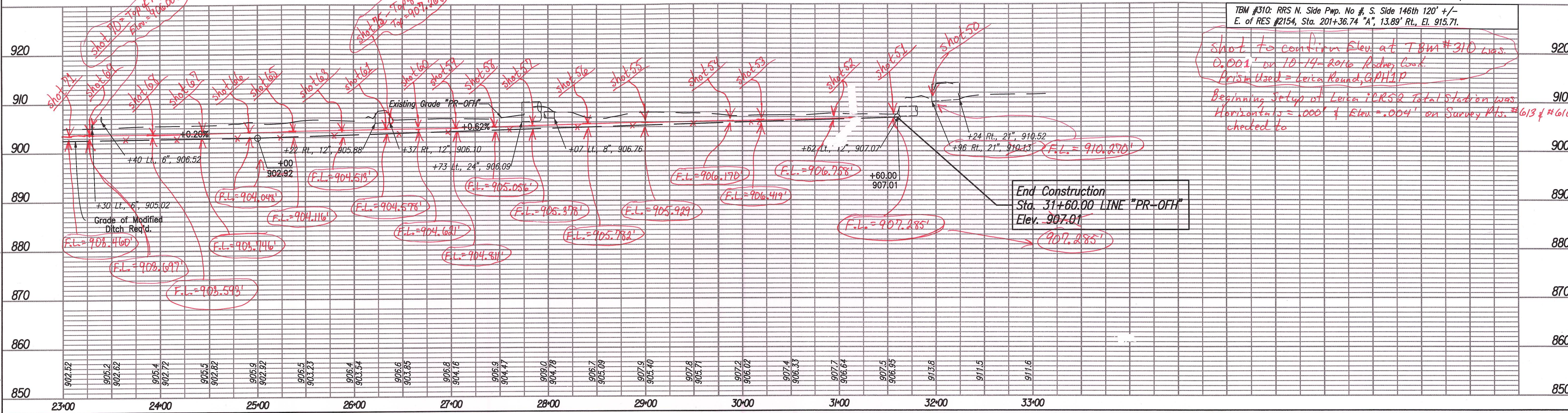
HOFFMAN FARMS
HOLDING, LLC

Sec 21, T-18-N, R-3-E
Clay Twp.
Hamilton County



Clearing Right-of-Way includes all items within the Regulated Drain Easement and the Proposed Right-of-Way.

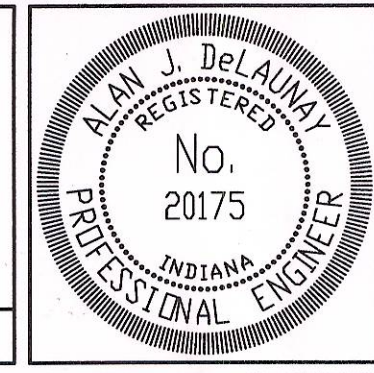
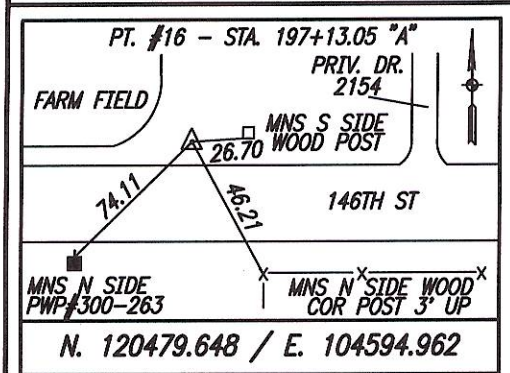
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All R/W On This Sheet To Be As Shown.
Limited Access Provisions To Apply
Where Indicated. All R/W On This Sheet
Described From Line "PR-OFF", Except As Noted.



TBM #310: RRS N. Side Pwp. No #, S. Side 146th 120' +/-
E. of RES #2154, Sta. 201+36.74 "A", 13.89' Rt., El. 915.71.

shot to confirm elev. at TBM #310 was
0.001' on 10-14-2016 Andy Cook.
Prism used = Leica Konrad, GPH3P
Beginning setup of Leica PRS2 Total Station was
Horizontal = 1000' & Elev. = 0.004' on Survey Plus #613 & #6100
checked to

End Construction
Sta. 31+60.00 LINE "PR-OFF"
Elev. 907.01



RECOMMENDED FOR APPROVAL
FOR APPROVAL *Alan J. DeLaunay* 1/30/2015
DESIGN ENGINEER DATE
DESIGNED: JMJ DRAWN: JCO
CHECKED: MAK CHECKED: JMJ

HAMILTON COUNTY
SURVEYOR'S OFFICE
PLAN AND PROFILE
LINE "PR-OFF"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 6 of 20
CONTRACT	PROJECT NO.

SEDIMENT TRAP DESIGN DATA TABLE													
Trap No.	Location		In/Out Lt/Rt	Drainage Area (ACRES)	Sediment Trap								
	Line	Station			Length (LFT)	Left Slope (X:1)	Bottom Width (FT)	Right Slope (X:1)	Spillway Height (FT)	Spillway Elevation (FT)	Basin Elevation (FT)	Required Storage (CYS)	Storage Provided (CYS)
1	PR-OFF	11+33	CL	1.6410	230	3	4	3	1.50	901.69	900.19	107	108

Sec 21, T-18-N, R-3-E
Clay Twp.
Hamilton County

CURVE DATA
P.I. 20+01.82
Δ = 41°59'08.90" (LT)
T = 134.30'
L = 256.48'
R = 350.00'
E = 24.88'

CURVE DATA
P.I. 22+11.35
Δ = 18°09'09.91" (RT)
T = 63.90'
L = 126.73'
R = 400.00'
E = 5.07'

Begin Construction
Sta. 10+40.00 LINE "PR-OFF"

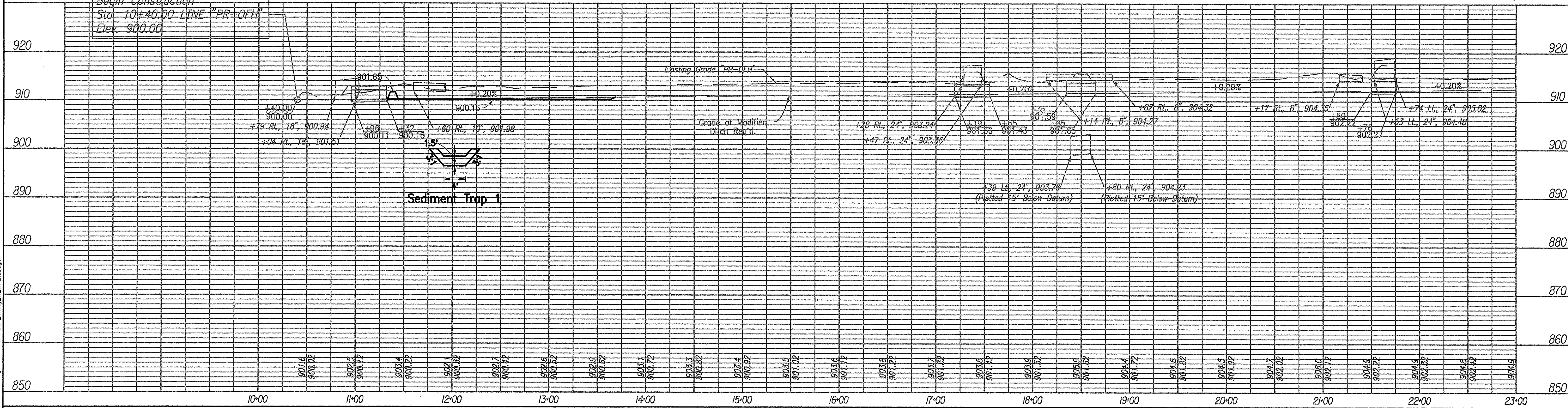
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Sta. 10+40.00 LINE "PR-OFF"
Elev. 900.00

LEGEND
Erosion Control Blanket
FOR EROSION CONTROL ONLY

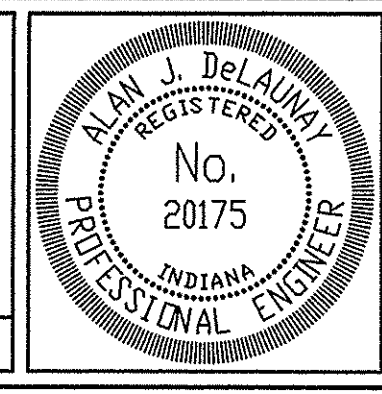
CURVE DATA
P.I. 14+43.10
Δ = 23°12'03.49" (RT)
T = 51.32'
L = 101.23'
R = 250.00'
E = 5.21'

CURVE DATA
P.I. 17+26.60
Δ = 26°00'08.18" (LT)
T = 23.09'
L = 45.38'
R = 100.00'
E = 2.63'

CURVE DATA
P.I. 18+00.97
Δ = 55°00'52.77" (Rt)
T = 119.167.0220
L = 105020.8757



Survey Data Taken From Line "PR-OFF".
All R/W On This Sheet To Be As Shown.
Limited Access Provisions To Apply
Where Indicated. All R/W On This Sheet
Described From Line "PR-OFF", Except As Noted.



RECOMMENDED FOR APPROVAL
Alan J. DeLaunay 1/30/2015
DESIGN ENGINEER DATE

DESIGNED: JMJ DRAWN: RLH
CHECKED: MAK CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE
01/29/2015

EROSION CONTROL DETAILS
LINE "PR-OFF"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 7 of 20
CONTRACT	PROJECT NO.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION			SIZE INCHES	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOW LINE			SERVICE LIFE YRS.	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL		GEOTEXTILES	REVETMENT RIPRAP TON	CONCRETE ANCHOR EA.	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION		CONNECT TO STR.	REMARKS				
	STATION	LEFT	RIGHT						CROSS	COVER LFT	UP STREAM ELEV.					DOWN STREAM ELEV.	CYS					TYPE	SYS	EA.	EA.	TYPE			SLOPE	EA.	SLOPE	EA.
Line "PR-OFH"																																
11	11+14.00			X		5 ft. x 2 ft.	-	Precast Reinforced Box Culvert	36	-	900.18	900.11	75	N	7	1	37.7	5	47	35												
12	17+37.00			X		5 ft. x 2 ft.	-	Precast Reinforced Box Culvert	36	-	901.43	901.36	75	N	7	1	37.7	5	47	35												
13	18+50.00			X		5 ft. x 2 ft.	-	Precast Reinforced Box Culvert	30	-	901.65	901.59	75	N	7	1	24.7	5	47	35												
14	21+63.00			X		5 ft. x 2 ft.	-	Precast Reinforced Box Culvert	26	-	902.27	902.22	75	N	7	1	23.3	5	47	35												

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION		SILT FENCE LFT	SEDIMENT TRAP TONS	SEDIMENT BASIN EACH	SLOPE DRAIN LFT	SPLASHPAD, RIPRAP TONS	CHECK DAM, TRAVERSABLE LFT	CHECK DAM, REVETMENT RIPRAP TONS	INLET PROTECTION EACH	EROSTON CONTROL BLANKET SYS	REMARKS
	LEFT	RIGHT										
LINE "PR-OFH"												
10+37.00 to 11+04.00	X										417	
11+24.00 to 17+28.00	X										4,295	
11+33.00	X			17								
17+47.00 to 18+44.00	X										938	
18+55.00 to 21+59.00	X										2,500	
21+69.00 to 22+67.00	X										817	
22+67.00 to 31+60.00	X										3,374	
TOTALS				17							12,341	

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH FT.	LENGTH FT.	RADI FT.	DISTANCE BEYOND R/W LINE FT.	EXIST. SURFACE BEYOND R/W			GRADE	EXCAVATION CUT CYD.	ARTICULATING CONCRETE MATRESS SYS.	GEOTEXTILES SYS.	HMA FOR APPROACHES		MATERIALS						HMA WEDGE AND LEVEL TYPE A	SEAL COAT TYPE 2 SYS.	ASPHALT FOR PRIME COAT SYS.	ASPHALT FOR TACK COAT SYS.	COMPACTED AGGREGATE, NO. 53, BASE						COMPACTED AGGREGATE, NO. 73 SYS.	REMARKS	
						AGGREGATE	ASPHALT	CONCRETE					TYPE A	TYPE B	SURFACE 9.5 MM	INTERMED. 19.0 MM	BASE 0.25 MM	INTERMED. O.G. 19.0 MM	BASE 0.25 MM	SURFACE TYPE B					BASE TYPE B	DEPTH (INCHES)							
																										1	2	4	6	8			4
						%	%	CYD.					CYD.	SYS.	SYS.	SYS.	SYS.	SYS.	SYS.	SYS.					SYS.	SYS.	SYS.	SYS.	SYS.	SYS.			SYS.
Line "PR-OFH"																																	
11+14.00	Ditch Crossing	20.0	28.9								128.4	139.3																					
17+37.00	Ditch Crossing	20.0	28.9								128.4	139.3																					
18+50.00	Ditch Crossing	10.0	31.6								70.2	79.5																					
21+63.00	Ditch Crossing	10.0	28.9								64.2	72.9																					
TOTALS											391.2	431																					
USE											392	431																					

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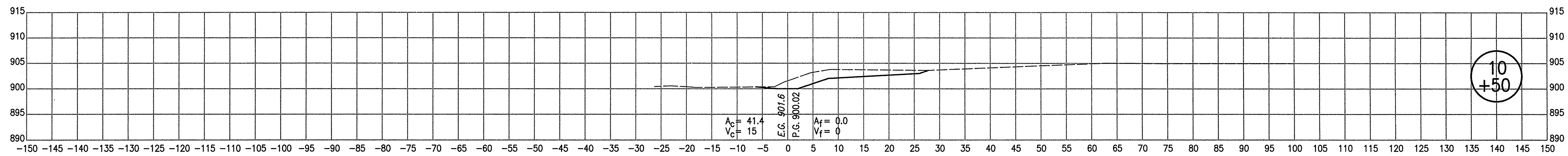
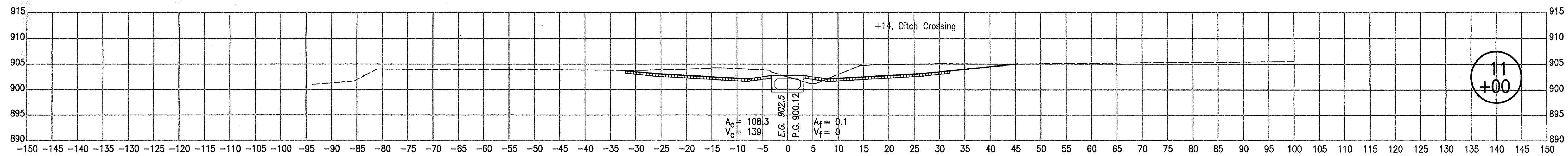
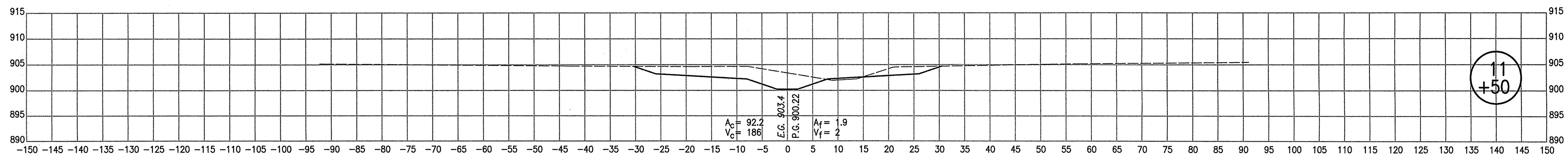
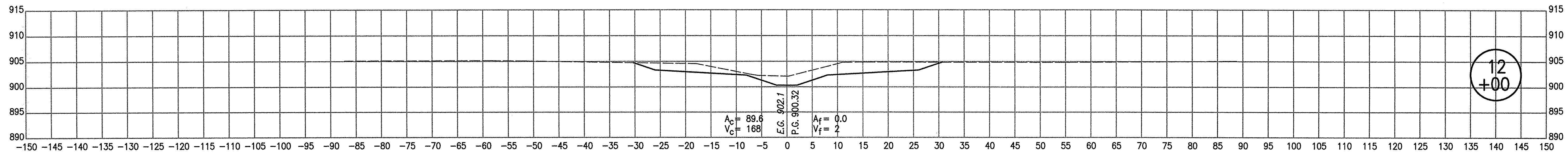


RECOMMENDED FOR APPROVAL *Alan J. DeLaunay* 1/30/2015
 DESIGN ENGINEER DATE
 DESIGNED: JMJ DRAWN: MAK
 CHECKED: MAK CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

MISC. TABLES

HORIZONTAL SCALE None	BRIDGE FILE N/A
VERTICAL SCALE None	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 9 of 20
CONTRACT	PROJECT NO.



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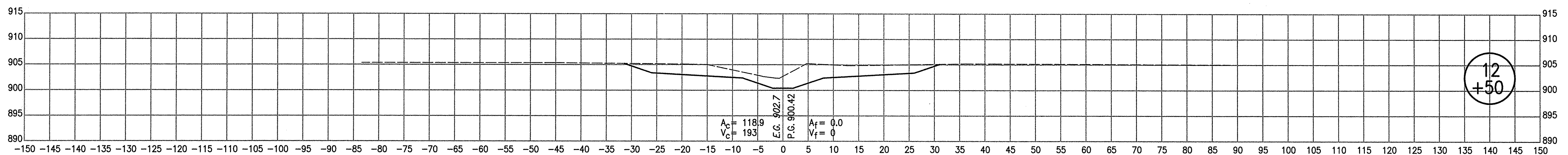
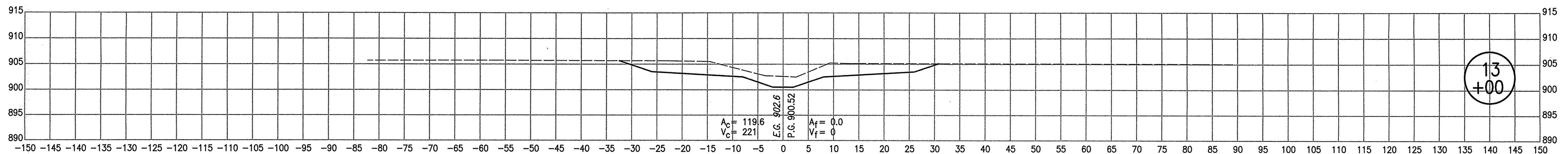
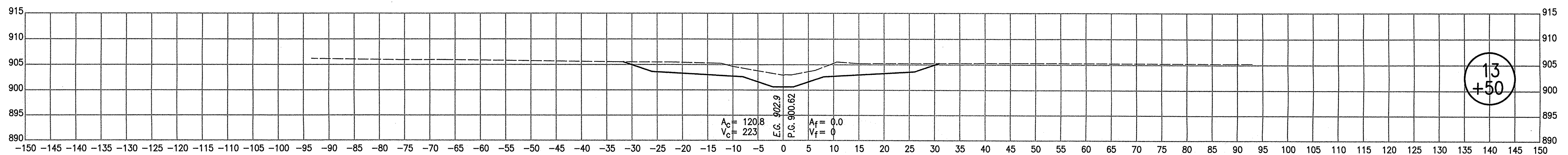
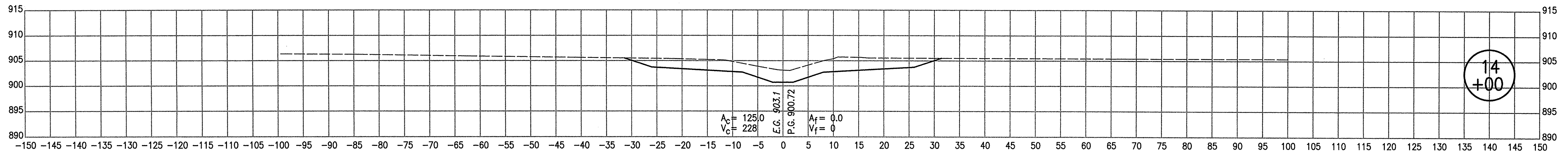
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: JMJ DRAWN: BSC
CHECKED: MAK CHECKED: JMJ

**HAMILTON COUNTY
SURVEYOR'S OFFICE**

CROSS SECTIONS
Line "PR-OFF"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 10 of 20
CONTRACT	PROJECT NO.



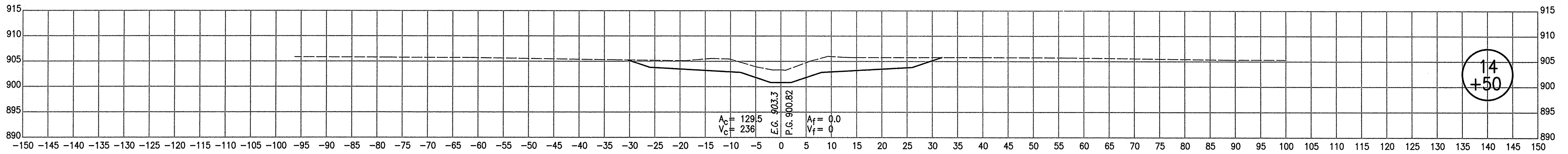
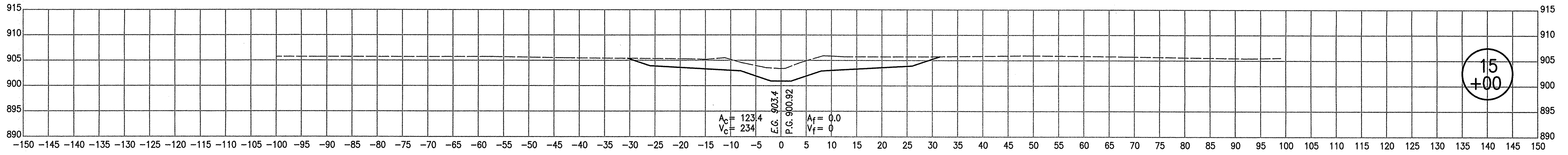
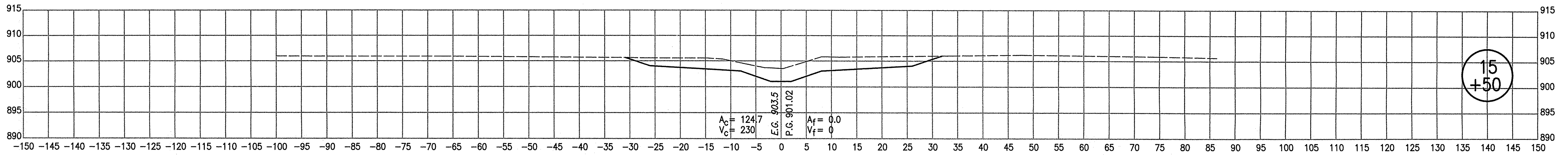
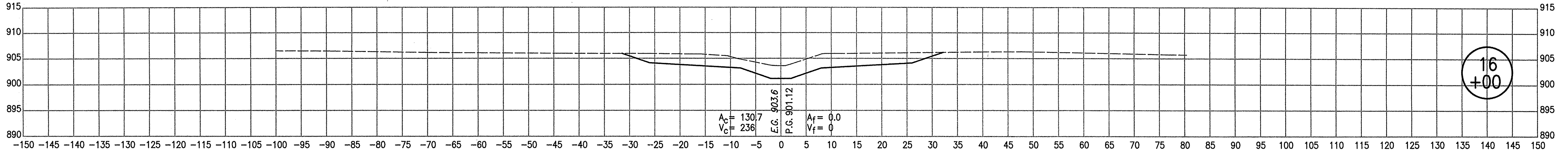
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RECOMMENDED FOR APPROVAL _____	
DESIGNED: JMJ	DRAWN: BSC
CHECKED: MAK	CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

CROSS SECTIONS
Line "PR-OFH"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 11 of 20
CONTRACT	PROJECT NO.



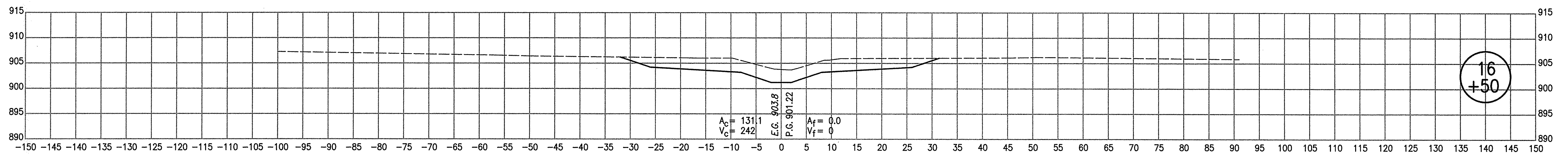
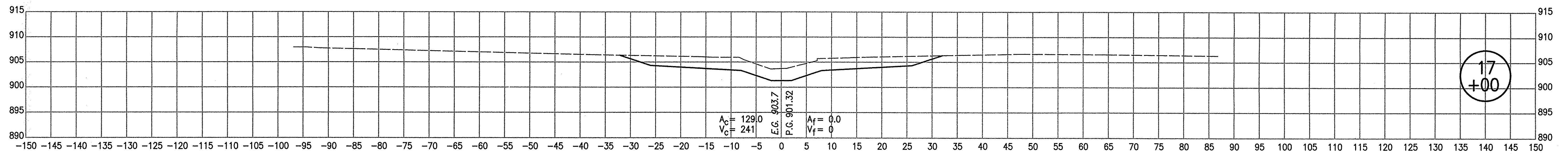
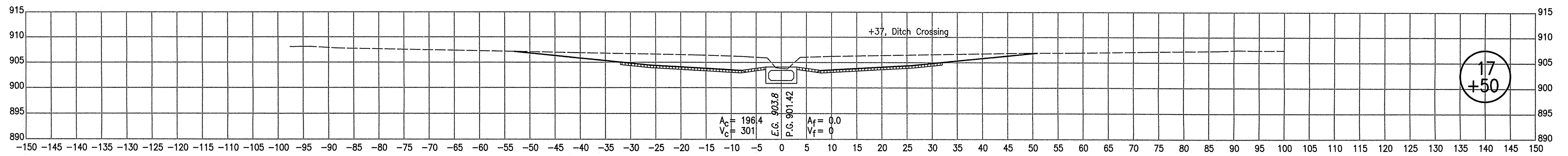
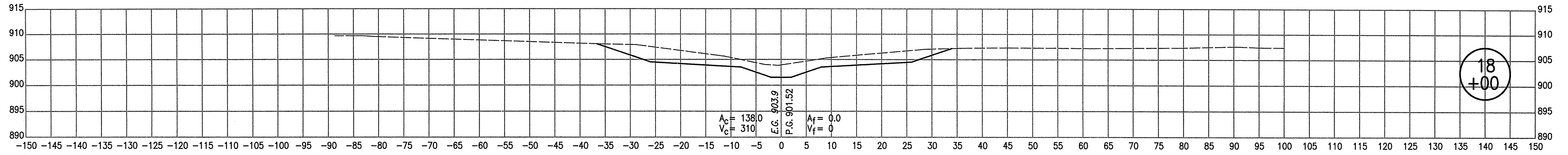
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RECOMMENDED FOR APPROVAL _____	
DESIGNED: <u>JMJ</u>	DRAWN: <u>BSC</u>
CHECKED: <u>MAK</u>	CHECKED: <u>JMJ</u>

HAMILTON COUNTY SURVEYOR'S OFFICE

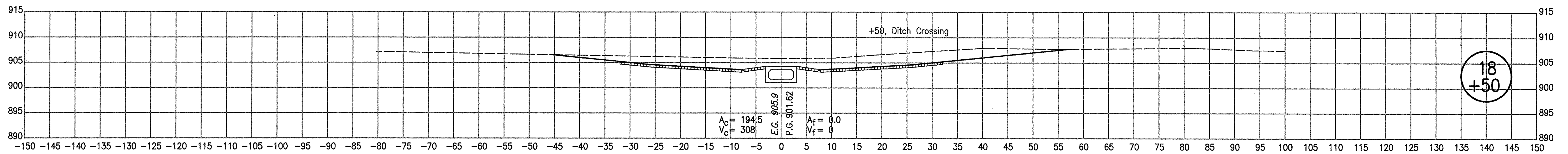
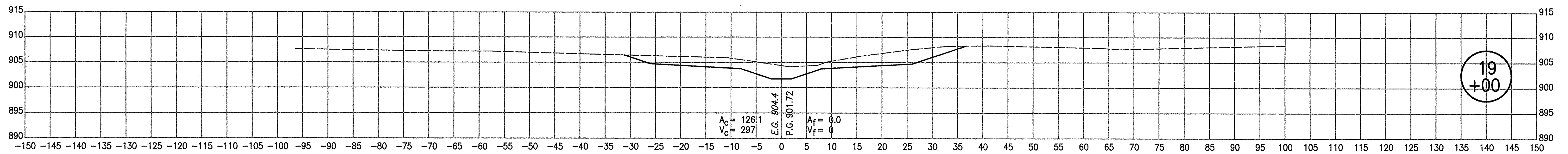
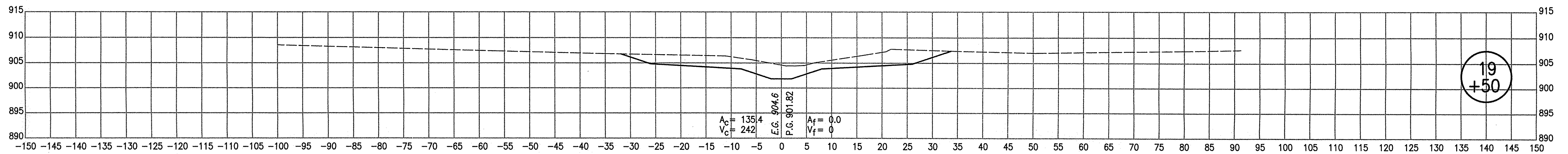
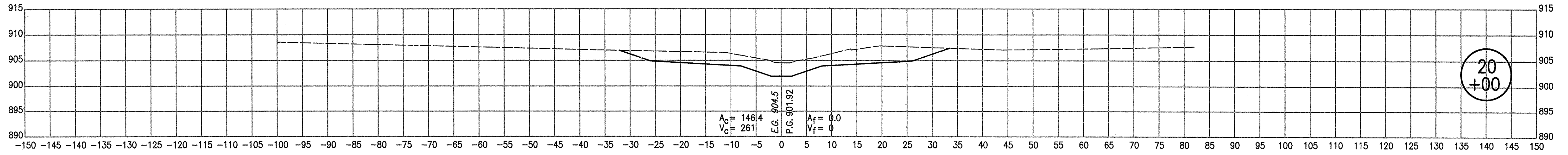
CROSS SECTIONS
Line "PR-OFH" OCT 25 2013

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 12 of 20
CONTRACT	PROJECT NO.



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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	HAMILTON COUNTY SURVEYOR'S OFFICE CROSS SECTIONS Line "PR-OFH"	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: JMJ	DRAWN: BSC		1"=10'	N/A
CHECKED: MAK	CHECKED: JMJ			VERTICAL SCALE	DESIGNATION NO.
				1"=10'	
				SURVEY BOOK	SHEETS
				Electronic	13 of 20
				CONTRACT	PROJECT NO.



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RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

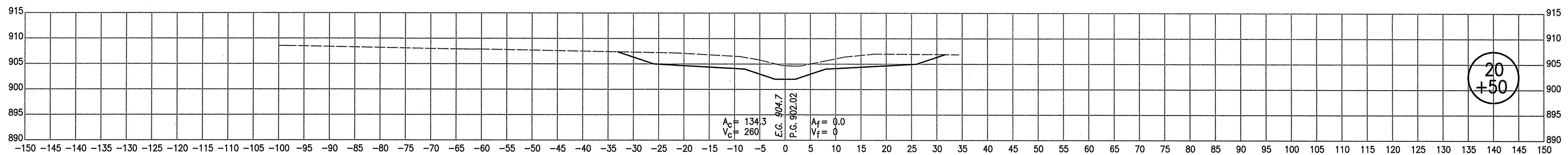
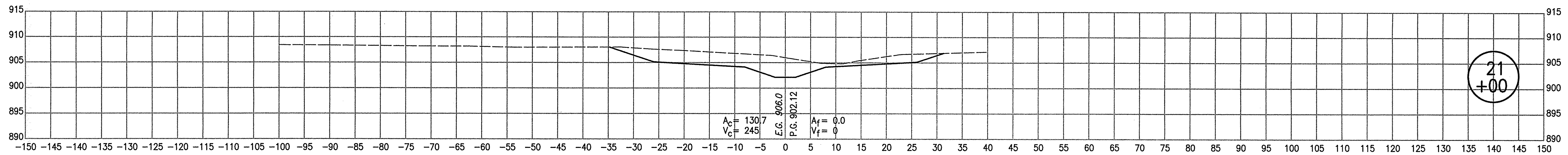
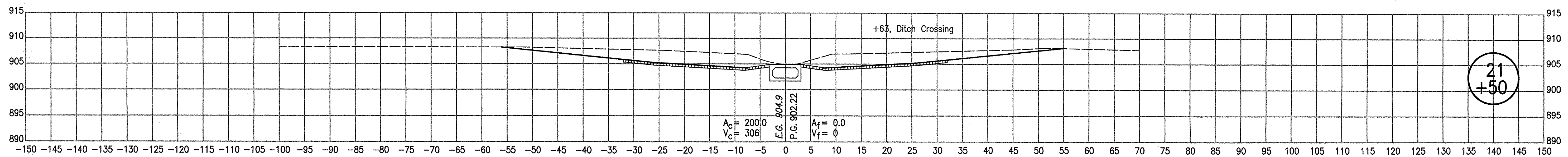
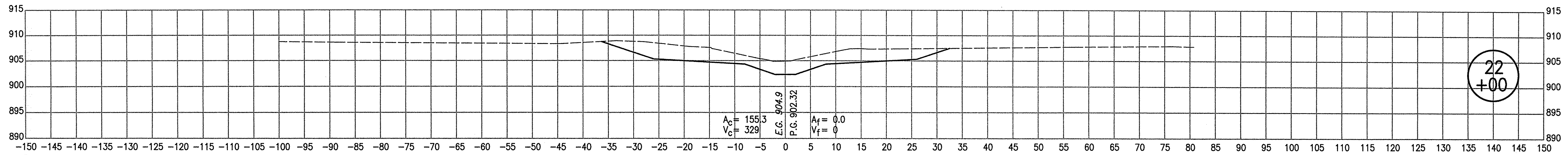
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**HAMILTON COUNTY
SURVEYOR'S OFFICE**

CROSS SECTIONS
Line "PR-OFH"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.

SURVEY BOOK Electronic CONTRACT	SHEETS 14 of 20 PROJECT NO.
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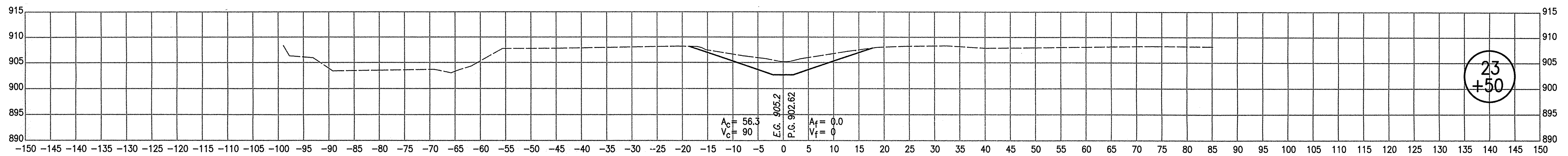
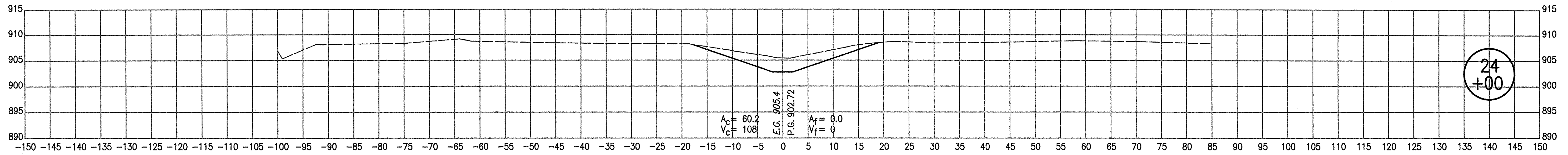
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RECOMMENDED FOR APPROVAL	
DESIGNED: JMJ	DRAWN: BSC
CHECKED: MAK	CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

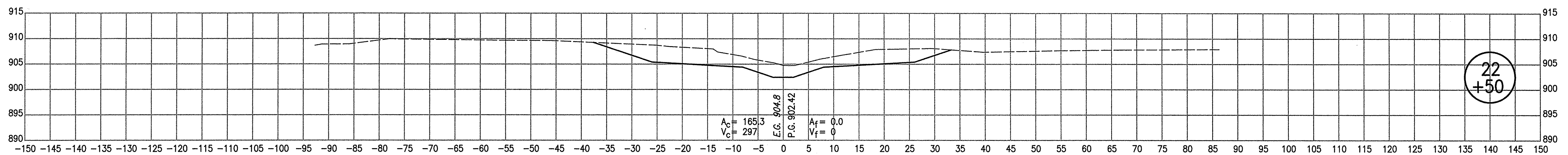
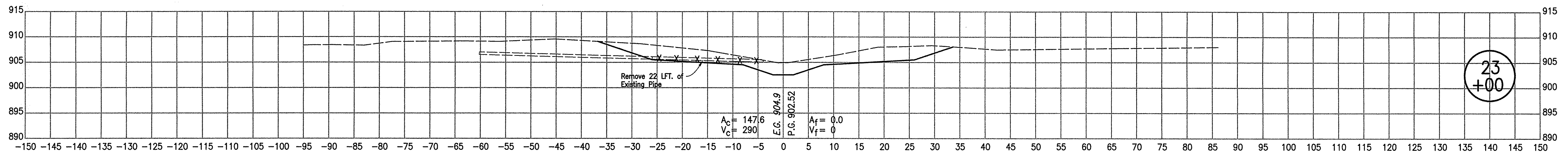
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Line "PR-OFH"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 15 of 20
CONTRACT	PROJECT NO.



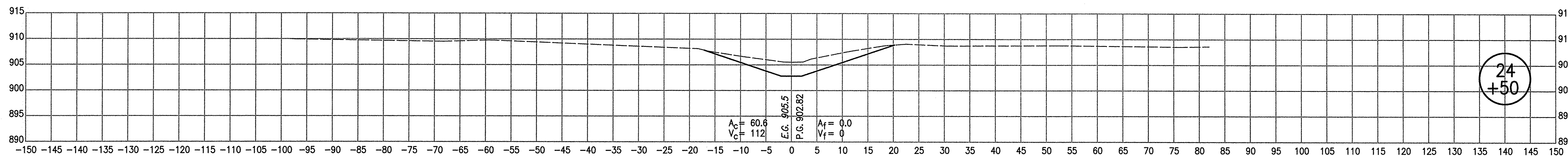
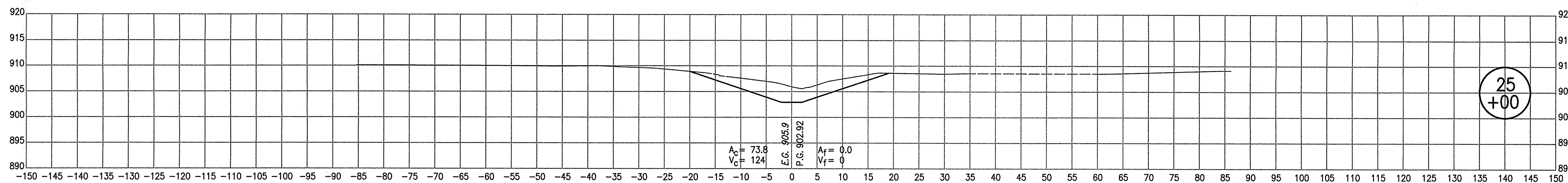
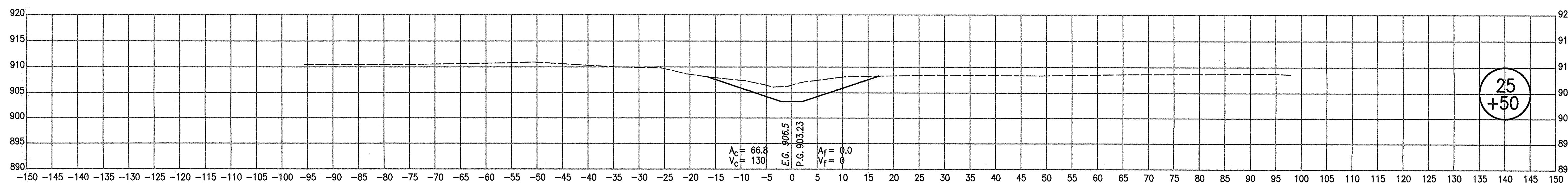
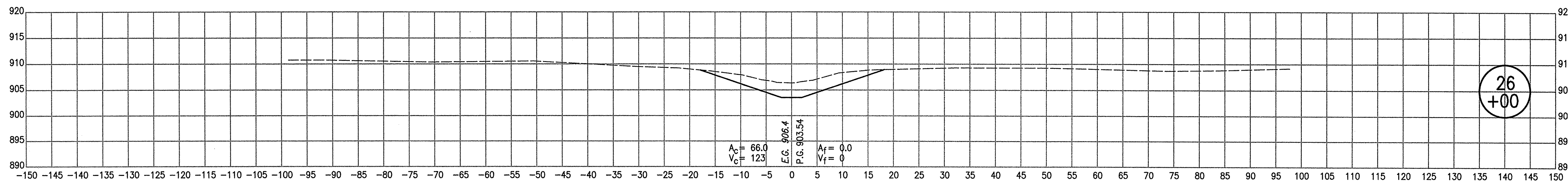
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		CROSS SECTIONS Line "PR-OFH"	SURVEY BOOK SHEETS Electronic 16 of 20 CONTRACT PROJECT NO.	
DESIGNED: JMJ	DRAWN: BSC			
CHECKED: MAK	CHECKED: JMJ			



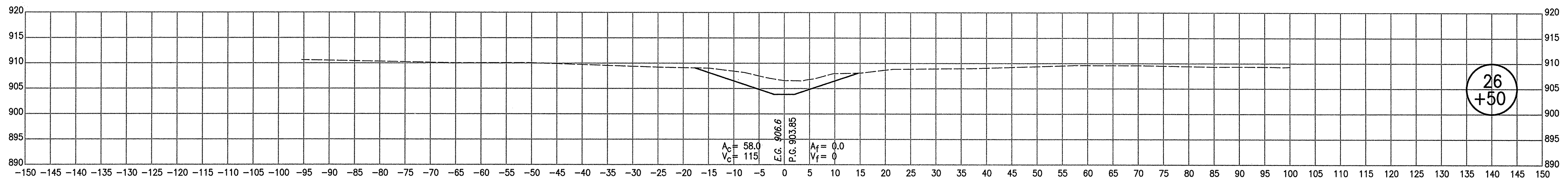
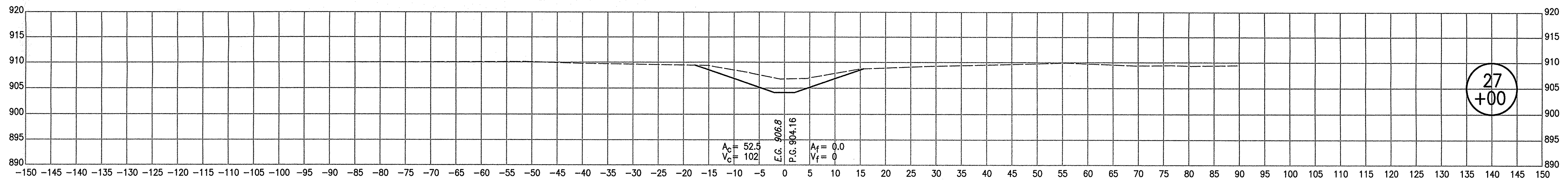
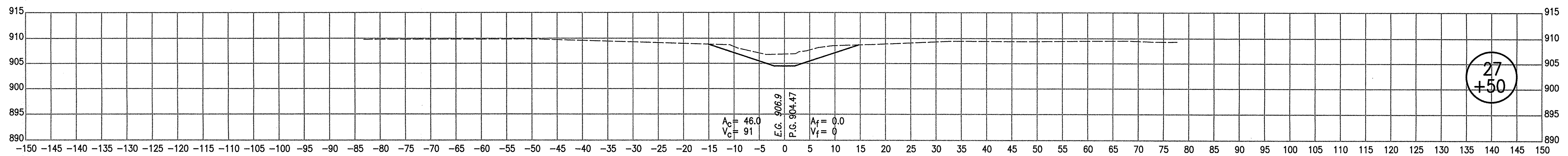
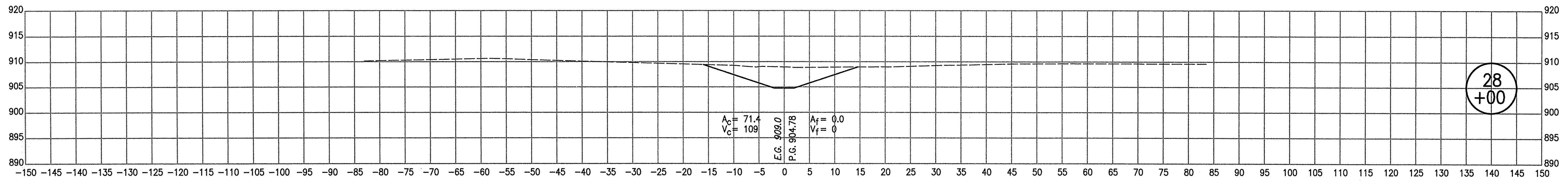
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RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: JMJ	DRAWN: BSC
CHECKED: MAK	CHECKED: JMJ

**HAMILTON COUNTY
SURVEYOR'S OFFICE**

CROSS SECTIONS OCT 2011
Line "PR-OFH"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 17 of 20
CONTRACT	PROJECT NO.



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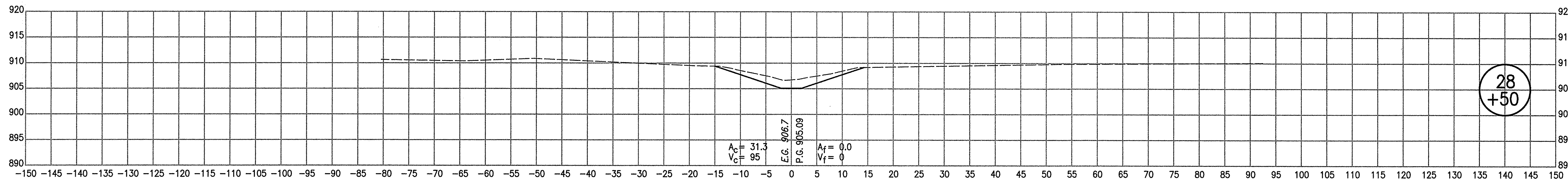
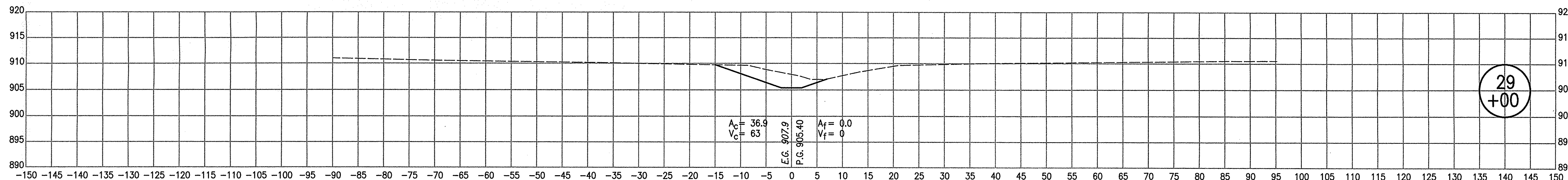
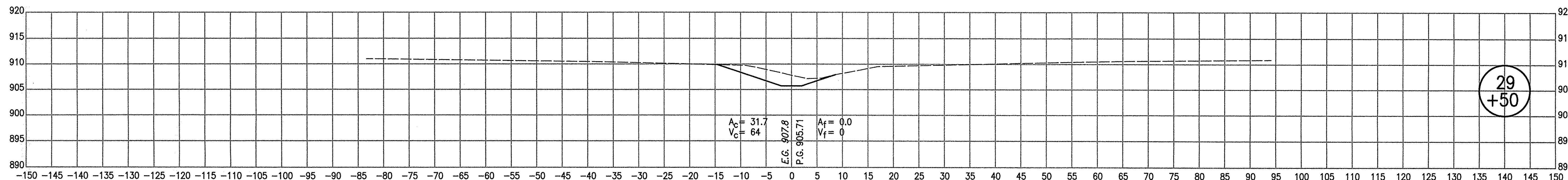
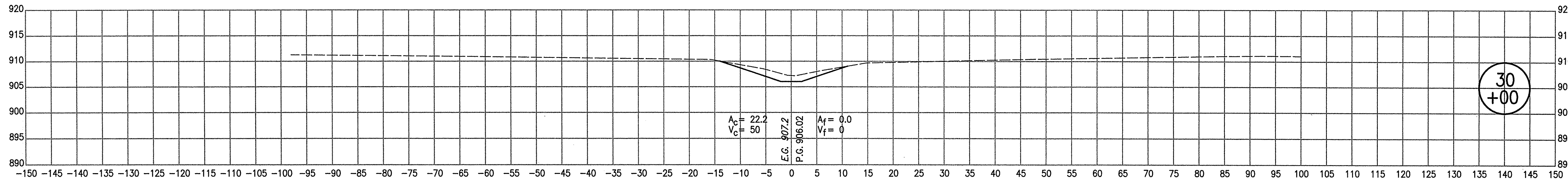
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: JMJ DRAWN: BSC
CHECKED: MAK CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

CROSS SECTIONS
Line "PR-OFH" OCT 25 2015

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic CONTRACT	SHEETS 18 of 20 PROJECT NO.



1/28/2015 1:09:54 AM I:\P\07187\Views\Wenley_Bridg_Trans\07187_1\mxd_28_301_Sec2_PR-OFH.dgn

RECOMMENDED FOR APPROVAL	
DESIGNED: JMJ	DRAWN: BSC
CHECKED: MAK	CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

CROSS SECTIONS
Line "PR-OFH" OCT 23 11:33

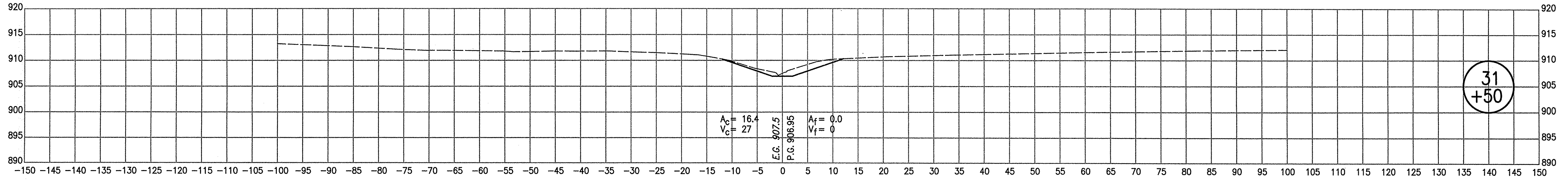
HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 19 of 20
CONTRACT	PROJECT NO.

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 $V_c = 6$

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31
+60

END CONSTRUCTION
STA. 3+60.00 "PR-OFH"

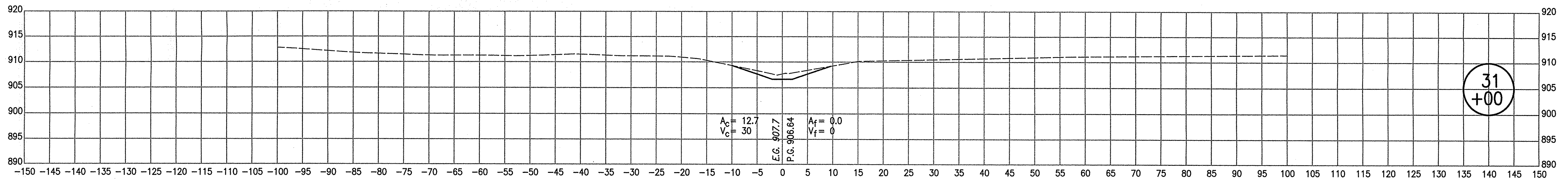


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P.G. 906.95

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+50

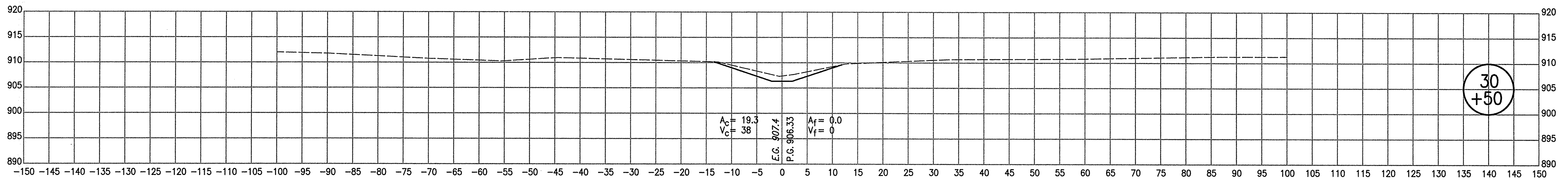


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31
+00



$A_c = 19.3$
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E.G. 907.4
P.G. 906.33

30
+50

1/28/2015 1:00:04 AM I:\0171027\Plans\Verity\Jah Plan\0171027_Verity\Jah Plan\0171027_Verity\PR-OFH.dgn

RECOMMENDED FOR APPROVAL	
DESIGNED: JMJ	DRAWN: BSC
CHECKED: MAK	CHECKED: JMJ

HAMILTON COUNTY SURVEYOR'S OFFICE

CROSS SECTIONS
Line "PR-OFH"

001 25 201

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION NO.
SURVEY BOOK Electronic	SHEETS 20 of 20
CONTRACT	PROJECT NO.