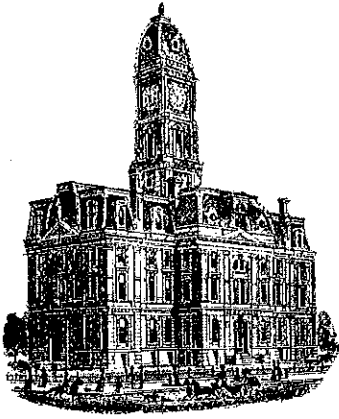


KCW



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

January 5, 2018

To: Hamilton County Drainage Board

Re: Johnson and Gardner Arm 1 of Arm 2 – Shelby Materials Off-site Reconstruction

Attached is a petition and plans for the proposed reconstruction of part of Arm 1 of Arm 2 of the Johnson and Gardner Drain. The reconstruction is being proposed by Shelby Gravel, Inc. The proposal is to reconstruct the original tile as an open ditch and RCP, to provide a deeper outlet with more capacity to the watershed area for current and future development.

This line will consist of the following:

1358 feet of Open Ditch
113 feet of 42" RCP

620 feet of 30" RCP

The total length of drain to be reconstructed with new pipe and open drain shall be 2,091 feet. The 1600 feet of the original drain between Sta. 0+00 and Sta. 16+00 shall be replaced in place by the reconstruction of this drain. This proposal will add a total of 491 feet to the Arm 1 of Arm 2 of the Johnson and Gardner Drain's total length.

The open ditch listed above starts at the upstream end of the existing open ditch at Sta. 16+00 of the current drain, and runs north and west following the route of the existing 10" concrete tile for 1335 feet. Then the drain will be 113 feet of 42" RCP to allow farm equipment crossing on parcel 08-05-32-00-00-003.000 and under Mule Barn Road, to Str. 51, which is an RCP end section, setting at Sta. 0+00 of the drain and is located at the west right-of-way line of Mule Barn Road and on the east property line of parcel 08-05-31-00-00-008.001. The drain then turns south running in a general southerly direction as 23' feet of open ditch from Str. 51 to Str. 101, then 318 feet of 30" RCP to Str. 102, thence running south 302 feet as 30" RCP to Str. 103. This is as shown on pages C601 and C602 of the plans for Shelby Materials, by Weihe Engineers, with job number W16.0598, and dated June 5, 2017.

The cost of the reconstruction is to be paid by Shelby Gravel, Inc.

The petitioner has not submitted surety for the proposed reconstruction at this time. Surety shall be submitted after the reconstruction approval of the Hamilton County Drainage Board and prior to commencement of construction. The surety shall be in the amount of 120% of the construction estimate for this project.

I further recommend that the portion of the Drain being reconstructed be designated an urban drain as outlined in IC 36-9-27-67.

The reconstruction will be located on or affect the regulated drain easement on the following parcels:

Parcel Number	Owner
08-05-32-00-00-023.000	HJW Holdings V, LLC.
08-05-32-00-00-003.000	HJW Holdings V, LLC.
08-05-31-00-00-008.001	Bradley E Roberts & Jared W Roberts
08-05-31-00-00-012.001	Shelby Gravel Inc.
Mule Barn Road	Hamilton County Highway Department
Mule Bard Road	City of Westfield

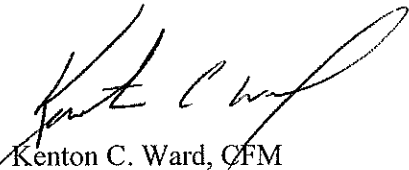
I believe that no damages will result to landowners by the reconstruction of this drain. Therefore, damages for all tracts shall be set at \$0.00.

The new drain to existing Sta. 0+00 will be installed within existing regulated drain easement or in road right-of-way for Mule Barn Road. Therefore, the easement for the new drain shall be the existing easement based on 75' from the centerline of the tile, not the top of bank of the open ditch as per IC 36-9-27-33. The new open ditch shall be within the existing easement. No additional easement will be required for the open ditch

The developer is currently finalizing a 30' easement across parcel 08-05-31-00-00-008.001 and I recommend upon recording that this be the easement for the new regulated drain on said parcel.

I recommend that the easement for the new regulated drain on parcel 08-05-31-00-00-012.001 be the 10' drainage easement as shown on the secondary plat for Shelby Material Westfield Operations as recorded in the office of the Hamilton County Recorder as instrument number 2017029132. The remainder of the required easement shall be the platted 60' right of way for Mule Barn Road.

I recommend the Board set a hearing for this petition for February 26, 2018.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

FILED

DEC 27 2017

OFFICE OF HAMILTON COUNTY SURVEYOR

To: Hamilton County Drainage Board

Re: In the matter of the Shelby Gravel, Inc. Drain Petition

Comes now the undersigned individuals, who petition the Hamilton County Drainage Board, per IC 36-9-27-54, for improvements to a regulated drain already in service. The undersigned believe the following:

1. That as property owners within the Johnson and Garner Drain Shed, they are qualified petitioners.
2. That they now desire that the regulated drain be improved in Washington Township, which involves the following public roads; Mule Barn Road and various areas surrounding these roads in the Johnson and Gardner Drainage Shed.
3. The names and address of each owner affected by the proposed public drainage are attached hereto, made part hereof and marked Exhibit "A".
4. No other public lands or owners are located in the area which would affect improvement.
5. That the general route of the proposed drain improvements will follow the path of the existing 10" regulated drain in place and is shown in the attached plan which is marked Exhibit "B" and made part hereof.
6. 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.
7. That in the opinion of the Petitioner, the proposed improvement will improve the public health; benefit a public roadway; and be of public utility.
8. That the name of the attorney or spokesperson representing petitioner in the drainage petition is Randy Zentz, who has an office at or whose address is 958 Bright Beam Court Westfield, IN 46074.
9. The work necessary for the proposed reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the Johnson and Gardner Drain, without cost to other property owners on the watershed of the Johnson and Gardner Drain.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the Johnson and Grander Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

DocuSigned by
 Richard H. Haehl

 Signed

Richard H. Haehl

 Printed

EXHIBIT A
Shelby Gravel, Inc. Petition for Reconstruction

08-05-31-00-00-008.001 Washington
0 Mule Barn Rd , Westfield, Roberts, Bradley E & Jared W Roberts to

08-05-31-00-00-012.000 Washington
17710 Mule Barn Rd , Westfield, Indiana Farm Bureau Co-Operation

08-05-31-00-00-012.001 Washington
0 Mule Barn Rd , Westfield, Shelby Gravel Inc

08-05-32-00-00-002.000 Washington
0 Mule Barn Rd , Westfield, Roberts, Bradley E & Sarah J

08-05-32-00-00-003.000 Washington
0 Mule Barn Rd , Westfield, HJW Holdings V LLC

08-05-32-00-00-004.000 Washington
18202 Centennial Rd , Westfield, Collett, Bobbie Neal & Judith K

08-05-32-00-00-005.000 Washington
0 Centennial Rd , Westfield, Parks, Cleo I Trust

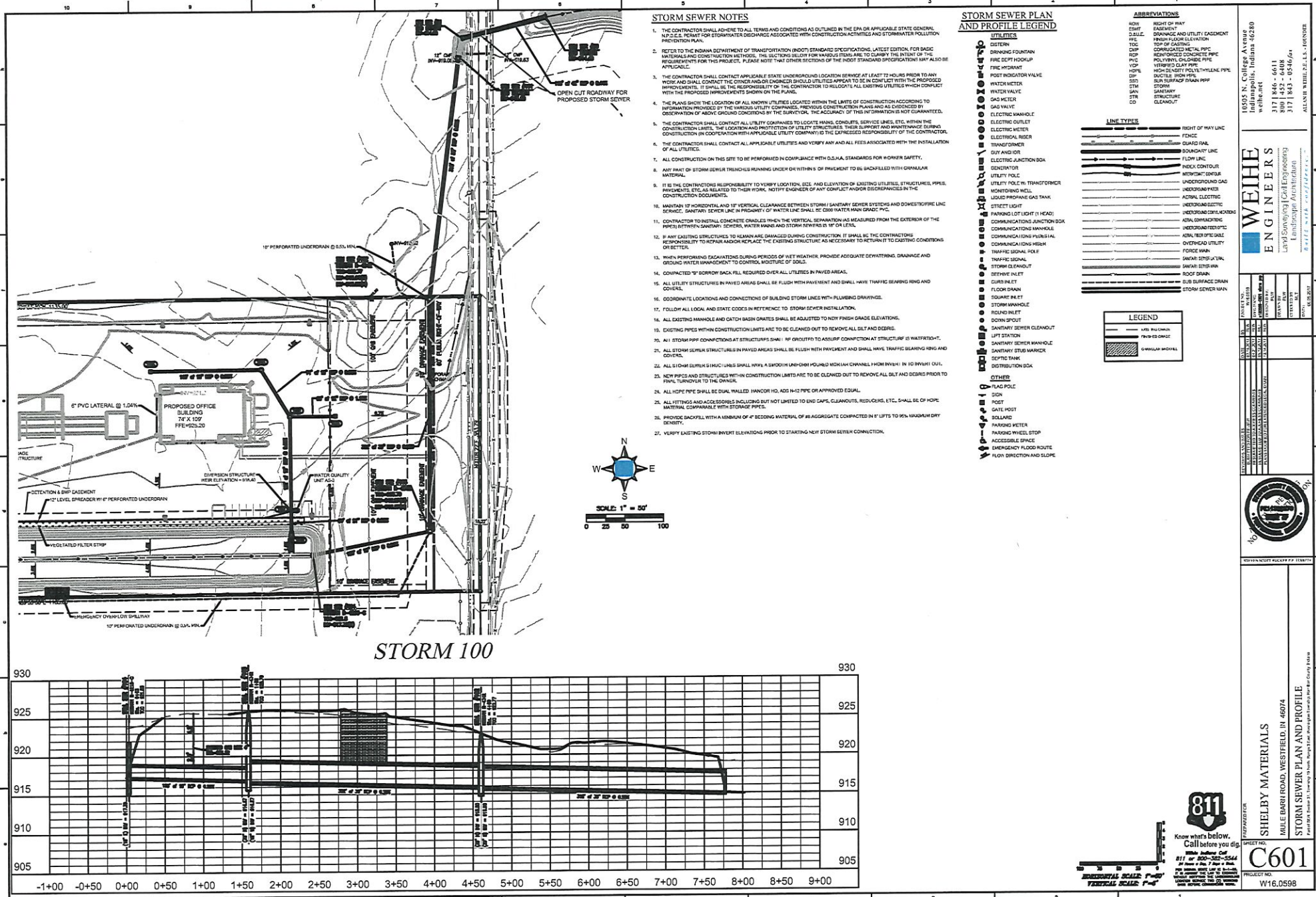
08-05-32-00-00-005.001 Washington
0 Centennial Rd , Westfield, Tolerson, Terri A

08-05-32-00-00-006.000 Washington
0 Centennial Rd , Westfield, Roberts, Bradley E & Sarah J

08-05-32-00-00-020.000 Washington
17942 Centennial Rd , Westfield, Chance, Ronald E & Carolyn A Trustees Ronald E
Chance Lvg Trust

08-05-32-00-00-023.000 Washington
3524 W State Road 32 , Westfield, HJW Holdings V LLC
Total of

Exhibit B Shelby Gravel, Inc. Petition for Reconstruction 1 of 2



- ### STORM SEWER NOTES
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.C.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
 - REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTION BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
 - THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONTACT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
 - THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES. PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
 - THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION IN COOPERATION WITH APPLICABLE UTILITY COMPANY IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
 - ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.A. STANDARDS FOR WORKER SAFETY.
 - ANY PART OF STORM SEWER TRENCHES RUNNING UNDER DRYWELLS OR PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, MANHOLES, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
 - MAINTAIN 12" HORIZONTAL AND 12" VERTICAL CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC FIRE LINE SERVICE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE OVER WATER MAIN GRADE. P.C.
 - CONTRACTOR TO INSTALL CONCRETE CHAMBERS WHEN THE VERTICAL SEPARATION AS MEASURED FROM THE EXTERIOR OF THE CHAMBER BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
 - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 - WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DRAINAGE, DRAINAGE AND GROUND WATER MONITORING TO CONTROL MOISTURE OF SOILS.
 - COMPACTED 3" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
 - ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
 - COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
 - FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
 - ALL EXISTING MANHOLES AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
 - EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
 - ALL STORM SEWER CONNECTIONS AT STRUCTURES SHALL BE GRADUALLY TAPERED CONNECTION AT STRUCTURE IF WATER-TIGHT.
 - ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
 - ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM ROUNDED MOUTH CHANNEL FROM INVERT TO 10' INVERT OUT.
 - NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOUT TO THE DRAIN.
 - ALL VORTEX PIPES SHALL BE DUAL WALLED HANDBOR HD, 400 H-42 PIPE OR APPROVED EQUAL.
 - ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC. SHALL BE OF HOPE MATERIAL COMPATIBLE WITH STORAGE PIPES.
 - PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF AN AGGREGATE COMPACTED IN 8" LIFTS TO 96% MAXIMUM DRY DENSITY.
 - VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

STORM SEWER PLAN AND PROFILE LEGEND

UTILITIES

- DISTRICT
- DRAINAGE FOUNDATION
- FIRE SCOP HOULUP
- FIRE HYDRANT
- POST INDICATOR VALVE
- WATER METER
- WATER VALVE
- GAS METER
- GAS VALVE
- ELECTRIC MANHOLE
- ELECTRIC OUTLET
- ELECTRIC METER
- ELECTRICAL RISER
- TRANSFORMER
- GUY AND IDR
- ELECTRIC JUNCTION BOX
- CONDENSATOR
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- MONITORING WELL
- LIQUID PROPANE GAS TANK
- STREET LIGHT
- PARKING LOT LIGHT (1 HEAD)
- COMMUNICATIONS JUNCTION BOX
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS PLEASIAL
- COMMUNICATIONS HIGH
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL
- STORM CLEANOUT
- SEWER INLET
- CURB INLET
- FLOOR DRAIN
- SQUARE INLET
- STORM MANHOLE
- ROUND INLET
- DOWN SPOUT
- SANITARY SEWER CLEANOUT
- LIFT STATION
- SANITARY SEWER MANHOLE
- SANITARY SEWER MANHOLE
- SEPTIC TANK
- DISTRIBUTION BOX

OTHER

- FLAG POLE
- SIGN
- POST
- GATE POST
- BOLLARD
- PARKING METER
- PARKING WHEEL STOP
- ACCESSIBLE SPACE
- EMERGENCY FLOOD ROUTE
- FLOOR DIRECTION AND SLOPE

ABBREVIATIONS

RIGHT OF WAY LINE
EASEMENT
DRAINAGE AND UTILITY EASEMENT
18" PERFORATED UNDERDRAIN
TOP OF CASTING
CONCRETE CASTING
REINFORCED CONCRETE PIPE
POLYETHYLENE GLASS FIBRE PIPE
VITRIFIED CLAY PIPE
HIGH-DENSITY POLYETHYLENE PIPE
DUCTILE IRON PIPE
SUB SURFACE DRAIN
STORM
SANITARY
STRUCTURE
CLEANOUT

LINE TYPES

- 18" PERFORATED UNDERDRAIN @ 25% V.P.
- 6" PVC LATERAL @ 1.04%
- PROPOSED OFFICE BUILDING 74' X 109' FFE #625,20
- OVERSEEN STRUCTURE NEAR ELEVATION + 916.40
- WATER QUALITY UNIT AG-3
- 12" LEVEL BRICKER BY 4" PERFORATED UNDERDRAIN
- VEGETATED FILTER STRIP
- EMERGENCY OVERFLOW DRAIN
- 18" PERFORATED UNDERDRAIN @ 33% V.P.

LEGEND

- NEW PROPOSED
- EXISTING
- OVERLAP MATERIAL

10305 N. College Avenue
Indianapolis, Indiana 46240
weilnet
317.546.6611
890.452.6408
317.843.0546 (fax)
ALEXIS WHELE, P.E., LICENSED

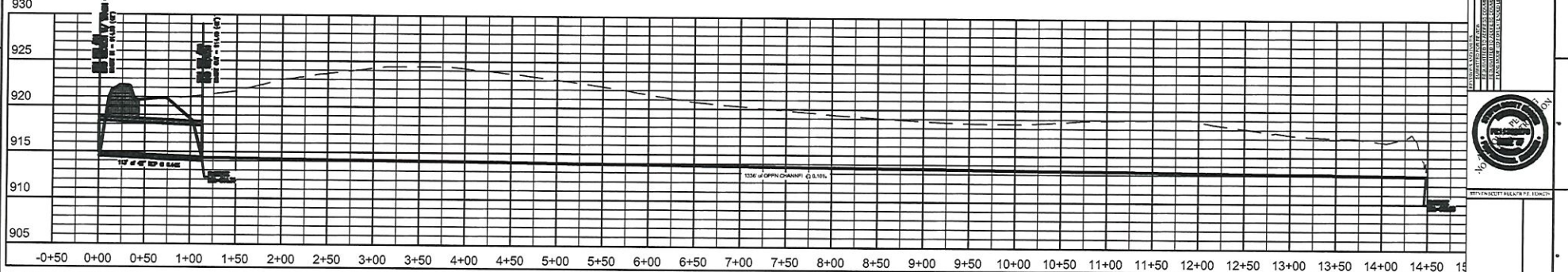
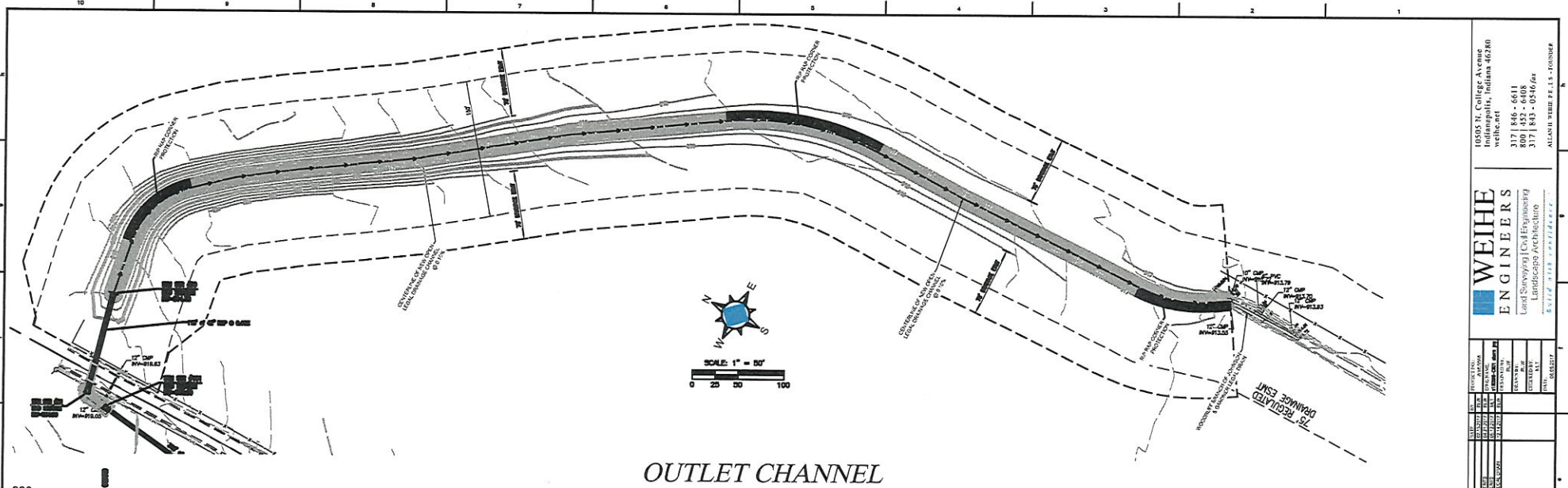
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture
Health Care Construction

NO.	DATE	DESCRIPTION
1	08/20/2013	ISSUED FOR PERMIT
2	09/05/2013	ISSUED FOR PERMIT
3	09/12/2013	ISSUED FOR PERMIT
4	09/19/2013	ISSUED FOR PERMIT
5	09/26/2013	ISSUED FOR PERMIT
6	10/03/2013	ISSUED FOR PERMIT
7	10/10/2013	ISSUED FOR PERMIT
8	10/17/2013	ISSUED FOR PERMIT
9	10/24/2013	ISSUED FOR PERMIT
10	11/01/2013	ISSUED FOR PERMIT
11	11/08/2013	ISSUED FOR PERMIT
12	11/15/2013	ISSUED FOR PERMIT
13	11/22/2013	ISSUED FOR PERMIT
14	11/29/2013	ISSUED FOR PERMIT
15	12/06/2013	ISSUED FOR PERMIT
16	12/13/2013	ISSUED FOR PERMIT
17	12/20/2013	ISSUED FOR PERMIT
18	12/27/2013	ISSUED FOR PERMIT
19	01/03/2014	ISSUED FOR PERMIT
20	01/10/2014	ISSUED FOR PERMIT
21	01/17/2014	ISSUED FOR PERMIT
22	01/24/2014	ISSUED FOR PERMIT
23	01/31/2014	ISSUED FOR PERMIT
24	02/07/2014	ISSUED FOR PERMIT
25	02/14/2014	ISSUED FOR PERMIT
26	02/21/2014	ISSUED FOR PERMIT
27	02/28/2014	ISSUED FOR PERMIT
28	03/06/2014	ISSUED FOR PERMIT
29	03/13/2014	ISSUED FOR PERMIT
30	03/20/2014	ISSUED FOR PERMIT
31	03/27/2014	ISSUED FOR PERMIT
32	04/03/2014	ISSUED FOR PERMIT
33	04/10/2014	ISSUED FOR PERMIT
34	04/17/2014	ISSUED FOR PERMIT
35	04/24/2014	ISSUED FOR PERMIT
36	05/01/2014	ISSUED FOR PERMIT
37	05/08/2014	ISSUED FOR PERMIT
38	05/15/2014	ISSUED FOR PERMIT
39	05/22/2014	ISSUED FOR PERMIT
40	05/29/2014	ISSUED FOR PERMIT
41	06/05/2014	ISSUED FOR PERMIT
42	06/12/2014	ISSUED FOR PERMIT
43	06/19/2014	ISSUED FOR PERMIT
44	06/26/2014	ISSUED FOR PERMIT
45	07/03/2014	ISSUED FOR PERMIT
46	07/10/2014	ISSUED FOR PERMIT
47	07/17/2014	ISSUED FOR PERMIT
48	07/24/2014	ISSUED FOR PERMIT
49	07/31/2014	ISSUED FOR PERMIT
50	08/07/2014	ISSUED FOR PERMIT
51	08/14/2014	ISSUED FOR PERMIT
52	08/21/2014	ISSUED FOR PERMIT
53	08/28/2014	ISSUED FOR PERMIT
54	09/04/2014	ISSUED FOR PERMIT
55	09/11/2014	ISSUED FOR PERMIT
56	09/18/2014	ISSUED FOR PERMIT
57	09/25/2014	ISSUED FOR PERMIT
58	10/02/2014	ISSUED FOR PERMIT
59	10/09/2014	ISSUED FOR PERMIT
60	10/16/2014	ISSUED FOR PERMIT
61	10/23/2014	ISSUED FOR PERMIT
62	10/30/2014	ISSUED FOR PERMIT
63	11/06/2014	ISSUED FOR PERMIT
64	11/13/2014	ISSUED FOR PERMIT
65	11/20/2014	ISSUED FOR PERMIT
66	11/27/2014	ISSUED FOR PERMIT
67	12/04/2014	ISSUED FOR PERMIT
68	12/11/2014	ISSUED FOR PERMIT
69	12/18/2014	ISSUED FOR PERMIT
70	12/25/2014	ISSUED FOR PERMIT
71	01/01/2015	ISSUED FOR PERMIT
72	01/08/2015	ISSUED FOR PERMIT
73	01/15/2015	ISSUED FOR PERMIT
74	01/22/2015	ISSUED FOR PERMIT
75	01/29/2015	ISSUED FOR PERMIT
76	02/05/2015	ISSUED FOR PERMIT
77	02/12/2015	ISSUED FOR PERMIT
78	02/19/2015	ISSUED FOR PERMIT
79	02/26/2015	ISSUED FOR PERMIT
80	03/05/2015	ISSUED FOR PERMIT
81	03/12/2015	ISSUED FOR PERMIT
82	03/19/2015	ISSUED FOR PERMIT
83	03/26/2015	ISSUED FOR PERMIT
84	04/02/2015	ISSUED FOR PERMIT
85	04/09/2015	ISSUED FOR PERMIT
86	04/16/2015	ISSUED FOR PERMIT
87	04/23/2015	ISSUED FOR PERMIT
88	04/30/2015	ISSUED FOR PERMIT
89	05/07/2015	ISSUED FOR PERMIT
90	05/14/2015	ISSUED FOR PERMIT
91	05/21/2015	ISSUED FOR PERMIT
92	05/28/2015	ISSUED FOR PERMIT
93	06/04/2015	ISSUED FOR PERMIT
94	06/11/2015	ISSUED FOR PERMIT
95	06/18/2015	ISSUED FOR PERMIT
96	06/25/2015	ISSUED FOR PERMIT
97	07/02/2015	ISSUED FOR PERMIT
98	07/09/2015	ISSUED FOR PERMIT
99	07/16/2015	ISSUED FOR PERMIT
100	07/23/2015	ISSUED FOR PERMIT

811 Know what's below. Call before you dig.
While Digging Call 811 or 800-327-5544
7:30 am to 7:00 pm, 7 days a week
800-327-5544
811 is a free service provided by the state.
For more information, visit www.811indiana.gov

C601
PROJECT NO. W16.0598

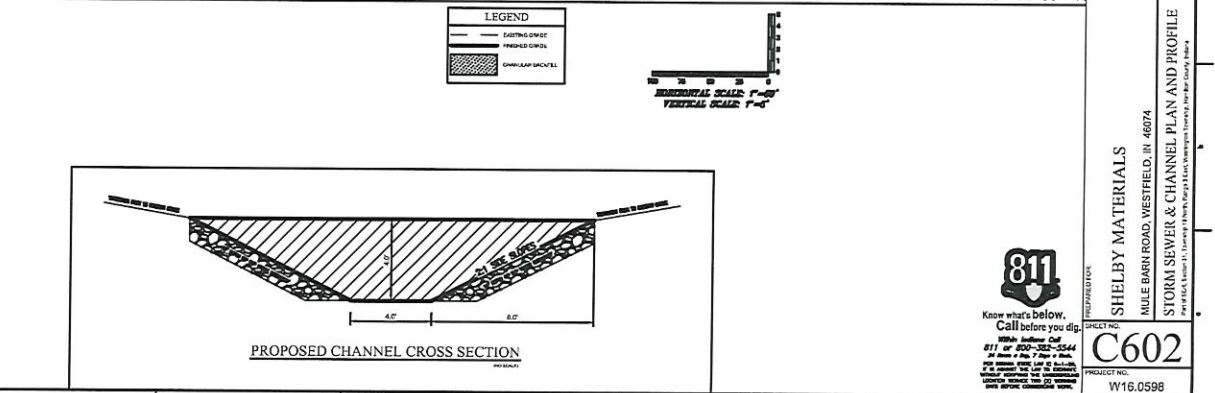
Exhibit B
Shelby Gravel, Inc. Petition for Reconstruction
 2 of 2



STORM SEWER NOTES
 REFER TO SHEET C601

STORM SEWER PLAN AND PROFILE LEGEND

UTILITIES		LINE TYPES	ABBREVIATIONS
			ROW RIGHT OF WAY
			FENCE FENCE
			GURD GURD
			BOUNDARY BOUNDARY
			FLOOD FLOOD
			NODE NODE
			I/O I/O
			UG GAS UG GAS
			UNDER UNDER
			AEL AEL
			UNDER UNDER
			ATEL ATEL
			FLOOD FLOOD
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI
			SSI SSI



10505 N. College Avenue
 Indianapolis, Indiana 46280
 WEIHER ENGINEERS
 317 | 848 - 6611
 317 | 843 - 6546 fax
 317 | 843 - 6546 fax
 www.weiher.com
 6558237
811
 Know what's below.
 Call before you dig.
 811 or 800-332-5344
 PROJECT NO. C602
 SHEET NO. 1W16.0598
 STORM SEWER & CHANNEL PLAN AND PROFILE

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS SHOWN ARE TO BE CONSIDERED AS APPROXIMATE. THE USER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
**Johnson & Gardner Drain Arm 1 of Arm 2, Shelby Materials Offsite
Reconstruction**

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Johnson & Gardner Drain Arm 1 of Arm 2, Shelby Materials Offsite Reconstruction** came before the Hamilton County Drainage Board for hearing on **February 26, 2018**, 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.

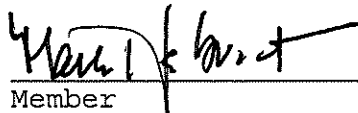
The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included 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 **Johnson & Gardner Drain Arm 1 of Arm 2, Shelby Materials Offsite 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

VICE PRESIDENT


Member


Alternate Member

ATTEST 
Executive Secretary



Project Information

Project Name	Shelby Property Ditch	Proposal Date	6-Dec-17
Location	Westfield, IN	Bid Date	6-Dec-17
Plan Date	N/A	Addenda Included	N/A

Estimate Amount **\$157,770.00**

Scope of Work

Earthwork
 -Includes excavation of new ditch. Ditch bottom to be 4 feet wide and banks will be sloped 2:1.
 -Includes handling/removal of spoils created by Millennium only.

Erosion Control
 -Includes silt fence, permanent seeding, and erosion control blanket for ditch banks.

Storm Sewer
 -Includes installing new 24" culvert across Mule Barn Road.
 -Includes traffic control, asphalt cut and patch.

Total **\$157,770.00**



Exclusions

- Soil Testing required.
- Quality control testing services.
- Stabilization/undercutting poor soils.
- Fees for permits or inspections.

Acceptance of Proposal

By signing of this proposal the signee agrees that the above prices, specification, and clarifications are satisfactory and accepted. Millennium Contractors, LLC. Is authorized to proceed with the work per the agreement of this document. Payment will be made as outlined above. The proposal may be withdrawn if not accepted within 30 day.

Prepared By

Peter Springsteen
Estimator

Signature _____

Date _____

Millennium Contractors, LLC

PO Box 1303

Indianapolis, IN 46206

Site Price

3201 BUDGET - Shelby Property Ditch

12/6/2017

Description	Quantity	Unit	Unit Price	Total Price
01 Mobilization				
Mob, small	6.00	EA	774.54	4,647.24
Mob, Large	4.00	EA	774.54	3,098.16
				<u>7,745.40</u>
02 General				
Layout/Surveying	1.00	LS	4,200.00	4,200.00
				<u>4,200.00</u>
04 Earthwork				
Fuel	1,000.00	GL	3.85	3,852.00
Fine grade, for ditch	2,250.00	SY	2.63	5,911.31
Compaction, with roller	375.00	CY	5.01	1,880.43
Fill, no compaction	375.00	CY	5.25	1,970.43
Excavation, w/ excavator	3,325.00	CY	2.10	6,988.48
Excavation, w/ dozer	500.00	CY	6.31	3,152.69
Haul out spoils	227.00	LD	192.00	43,584.00
				<u>67,339.34</u>
05 Erosion Control				
Fuel	400.00	GL	3.85	1,540.80
Silt Fence	2,800.00	LF	2.41	6,737.64
Erosion Control Blanket	1,500.00	SY	4.80	7,200.00
Revetment Rip Rap	100.00	TN	50.55	5,055.00
Permanent Seeding	2,250.00	SY	1.80	4,050.00
				<u>24,583.44</u>
07 Temporary Stone				
Fuel	100.00	GL	3.85	385.20
Fill, no compaction	200.00	TN	4.20	840.72
Haul in fill	200.00	TN	22.47	4,494.00
				<u>5,719.92</u>
09 Storm Sewer				
Backfill Dirt/Stone/Sand	165.00	CY	9.91	1,634.99
Trench Excavation	165.00	CY	10.51	1,733.99
Haul out spoils	13.00	LD	192.00	2,496.00
Haul in backfill material	80.00	TN	0.00	0.00
Fill Sand	0.00	TN	0.00	0.00
#8 Stone	80.00	TN	25.68	2,054.40
Flowable Fill	45.00	CY	135.10	6,079.72
Concrete	12.00	CY	173.62	2,083.49
Fuel	200.00	GL	3.85	770.40
Traffic Control	1.00	LS	6,559.80	6,559.80
24" RCP, 8' Sticks	110.00	LF	49.58	5,453.72
Concrete Flared End Section w/ Animal Guard	2.00	EA	2,430.27	4,860.53

Millennium Contractors, LLC

PO Box 1303

Indianapolis, IN 46206

Site Price

3201 BUDGET - Shelby Property Ditch

12/6/2017

Description	Quantity	Unit	Unit Price	Total Price
Asphalt Replacement	300.00	SF	42.00	12,600.00
Asphalt Demolition	300.00	SF	0.58	174.97
Haul out asphalt	2.00	LD	240.00	480.00
Sawcut	100.00	LF	12.00	1,200.00
				<hr/>
				48,182.01
			Total Price	\$157,770.11

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

*Johnson & Gardner Drain, Arm 1 of Arm 2
Shelby Materials Offsite 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 **Johnson & Gardner Drain, Arm 1 of Arm 2, Shelby Materials Offsite Reconstruction** on **February 26, 2018** 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 **Johnson & Gardner Drain Arm 1 of Arm 2,
Shelby Materials Offsite Reconstruction**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **February 26, 2018** 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.

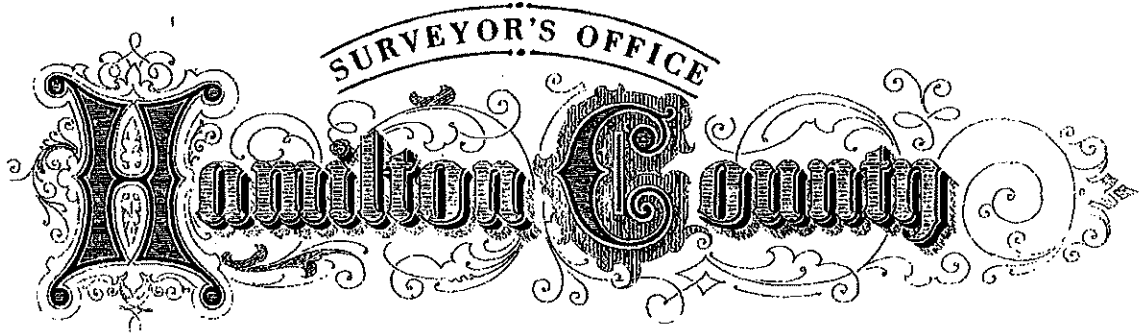
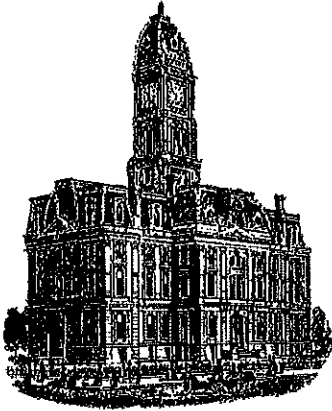
If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Christine Altman
VICE PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY

KCW



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

January 15, 2020

Re: Johnson & Gardner: Arm 1 of Arm 2 – Shelby Materials Offsite Reconstruction

Attached are as-built, certificate of completion & compliance, and other information for Shelby Materials Offsite 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, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated January 5, 2018. The report was approved by the Board at the hearing held February 26, 2018. (See Drainage Board Minutes Book 18, Pages 53-55) The changes are as follows: the 30" RCP was lengthened from 620 feet to 643 feet. The 42" RCP was lengthened from 113 feet to 117 feet. The open ditch was shortened from 1,358 feet to 1,336 feet. The length of the drain due to the changes described above is now **2,096 feet**. It should be noted that this project removed 1600 feet of existing 10" Concrete Tile.

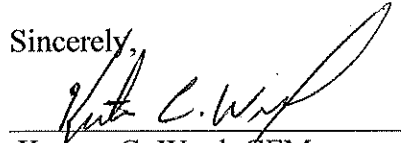
The drainage easements for this project were recorded in the Hamilton County Recorder's Office under instrument #'s 2017029132 and #2018034881.

The following sureties were guaranteed by The Ohio Casualty Insurance Company and released by the Board on its January 13, 2020 meeting.

Bond-LC No: 014208780
Amount: \$2196,629
For: Storm Sewer & Open Ditch
Issue Date: June 25, 2018

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kenton C. Ward", written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **SHELBY MATERIALS**

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature: **Joe Trtan** Date: **12-4-2019**

Type or Print Name: **JOSEPH TRTAN**

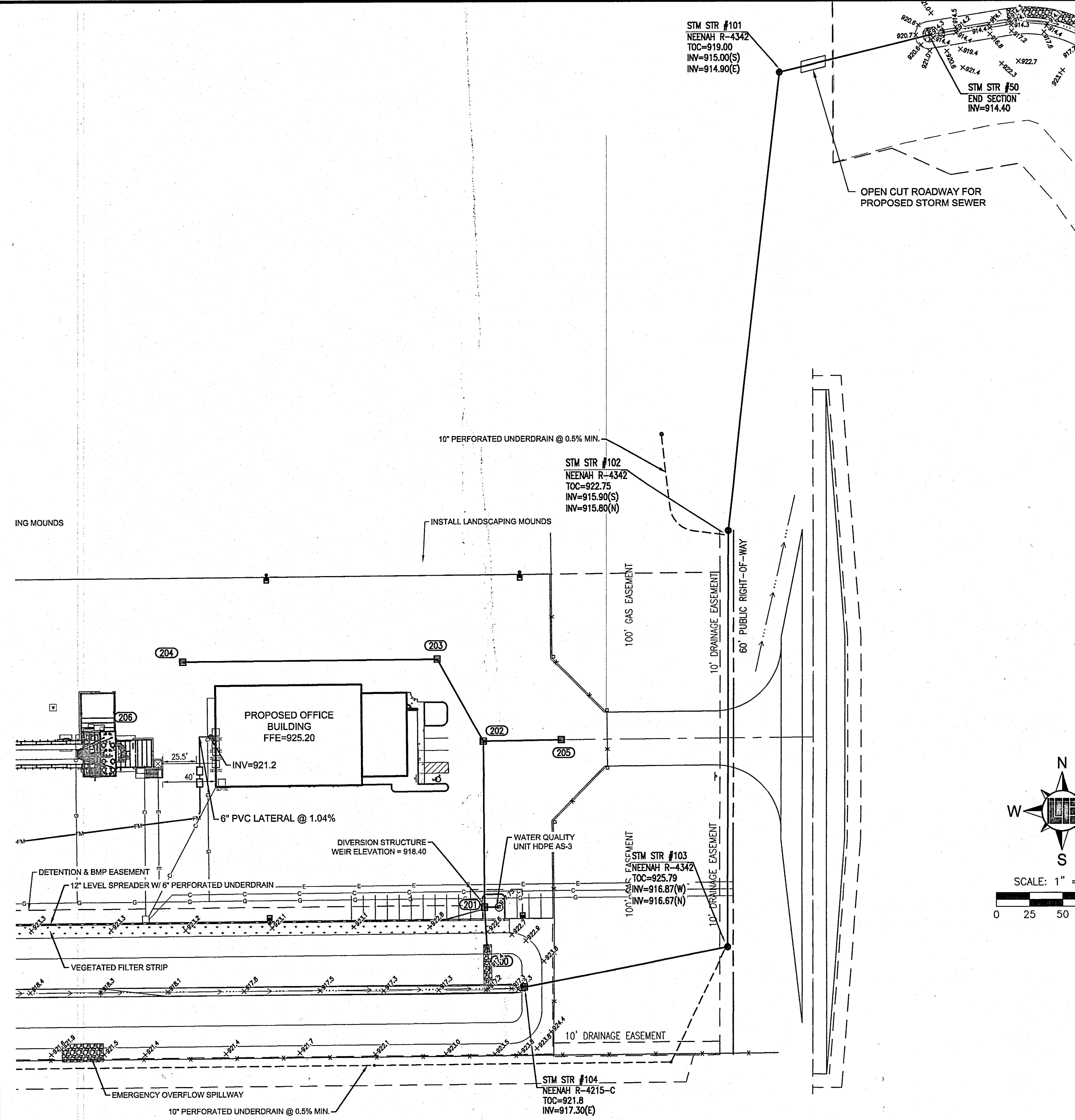
Business Address: **10505 NORTH COLLEGE AVE.**
INDIANAPOLIS, IN 46280

Telephone Number: **317-846-6611**

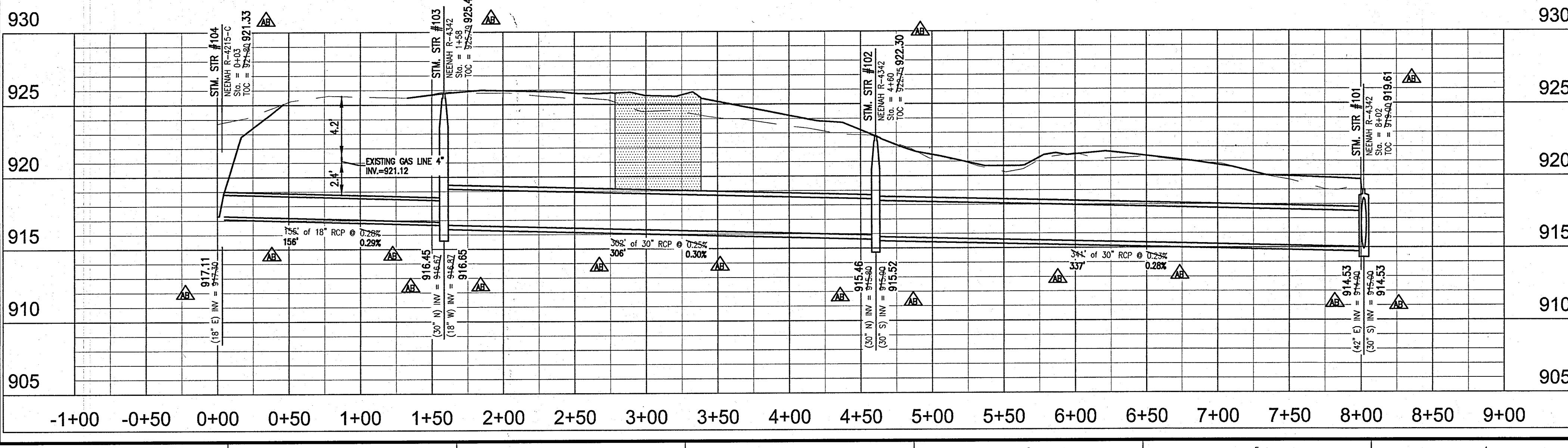


INDIANA REGISTRATION NUMBER

LS21500003



- ### STORM SEWER NOTES
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
 - REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
 - THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES. PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
 - THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
 - ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
 - MAINTAIN 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
 - CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
 - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 - WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
 - COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
 - ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
 - COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
 - FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
 - ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
 - EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
 - ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
 - ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
 - ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
 - NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOVER TO THE OWNER.
 - ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOR HQ, ADS N-12 PIPE OR APPROVED EQUAL.
 - ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPARABLE WITH STORAGE PIPES.
 - PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
 - VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

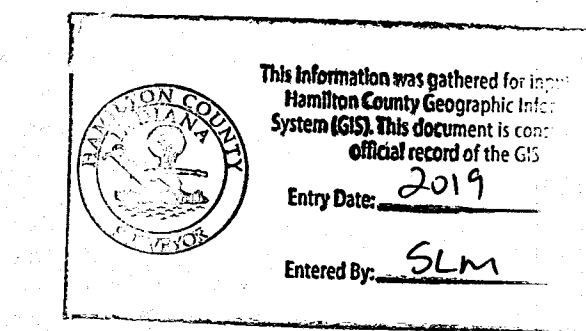
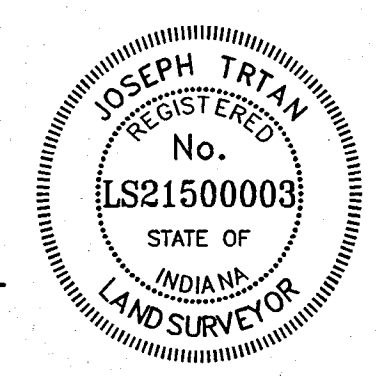


RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 12/4/2019

JOSEPH TRTAN, LS21500003

AS-BUILT INFORMATION
 -BUILT AS PLANNED

DATE OF LAST FIELDWORK: 11/21/2019

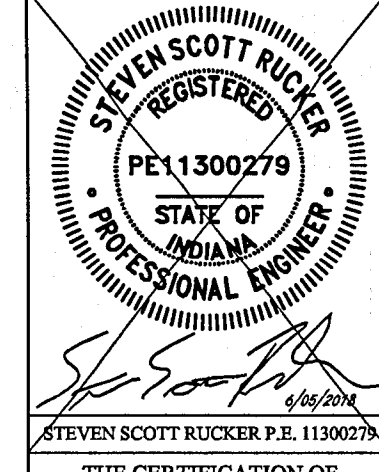


811
 Know what's below.
 Call before you dig.
 Within Indiana Call
 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.
 PER INDIANA STATE LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weihe.net
 317 846 - 6611
 800 452 - 6408
 317 843 - 0546 /fax
 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture
 Build with confidence.

REVISIONS AND DATES	DATE	BY	PROJECT NO.	REV.	DESCRIPTION
REVISIONS AND DATES	02/15/2017	RLW	W16.0598	1	ISSUED FOR PERMIT
REVISIONS AND DATES	04/21/2017	RLW	W16.0598	2	REVISIONS TO ADDRESS COMMENTS
REVISIONS AND DATES	05/12/2017	MLT	W160598-0001 Storm	3	REVISIONS TO ADDRESS COMMENTS
REVISIONS AND DATES	05/12/2018	RLW	W160598-0001 Storm	4	PLANS REVISIONS
REVISIONS AND DATES	03/26/2018	RLW	W160598-0001 Storm	5	PLANS REVISIONS
REVISIONS AND DATES	08/05/2018	RLW	W160598-0001 Storm	6	PLANS REVISIONS FOR CLIENT CHANGES
REVISIONS AND DATES	08/05/2018	RLW	W160598-0001 Storm	7	PLANS REVISIONS FOR CLIENT CHANGES
REVISIONS AND DATES	01/17/2019	RLW	W160598-0001 Storm	8	PLANS REVISIONS FOR ADDITIONAL LIGHTING
REVISIONS AND DATES	02/27/2019	RLW	W160598-0001 Storm	9	PLANS REVISIONS FOR HDPE AQUA SWIRE
REVISIONS AND DATES	11/22/2019	RLW	W160598-0001 Storm	10	AS-BUILTS



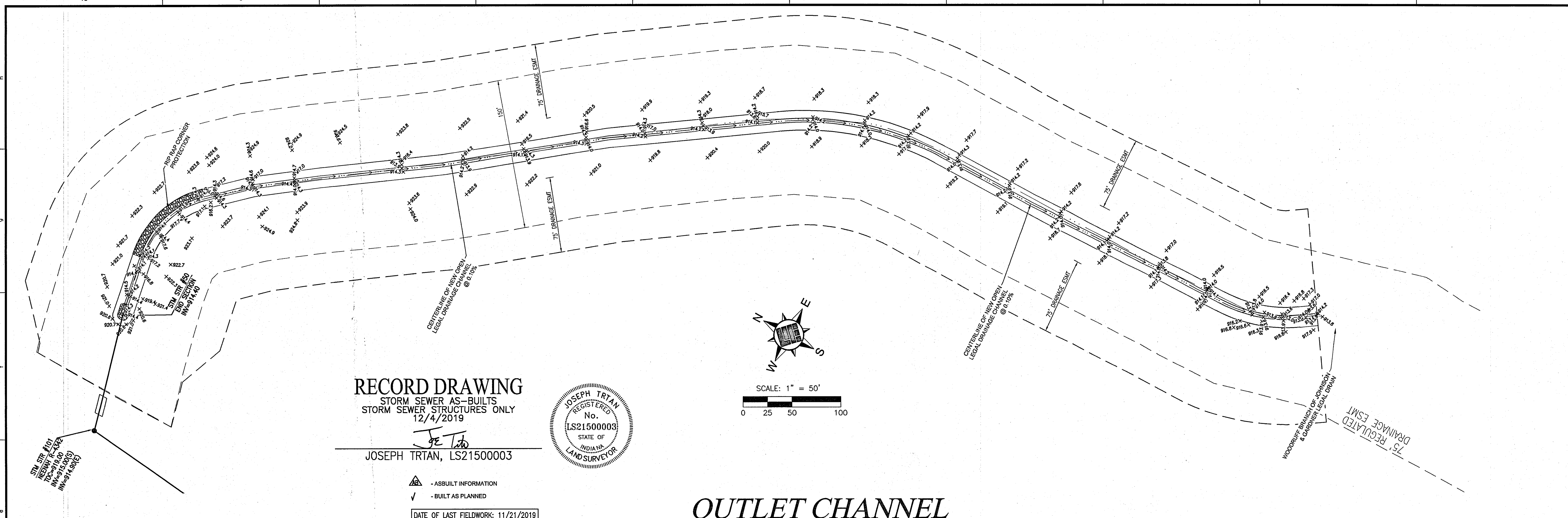
STEVEN SCOTT RUCKER P.E. 11300279

THE CERTIFICATION OF THESE DRAWINGS DOES NOT INCLUDE THE SEPTIC DESIGN & PERIMETER DRAIN OR THE WELL LOCATION.

PREPARED FOR:
SHELBY MATERIALS
 MULE BARN ROAD, WESTFIELD, IN 46074
STORM SEWER PLAN AND PROFILE
 Part of S&A, Station 31, Township 19 North, Range 3 East, Washington Township, Hamilton County, Indiana

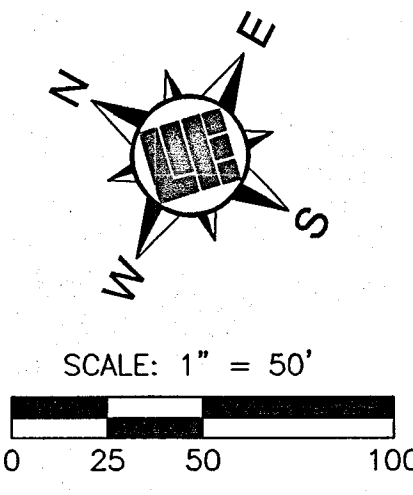
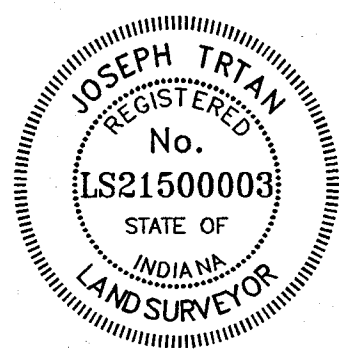
SHEET NO.
C601
 PROJECT NO.
 W16.0598

LOCATION: I:\2019\W160598\Engineering\Subarea\AB\Consent\AB W160598-0001 storm.psd.dwg
 DATE/TIME: December 04, 2019 - 10:28am
 PLOTTED BY: msooner



RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 12/4/2019

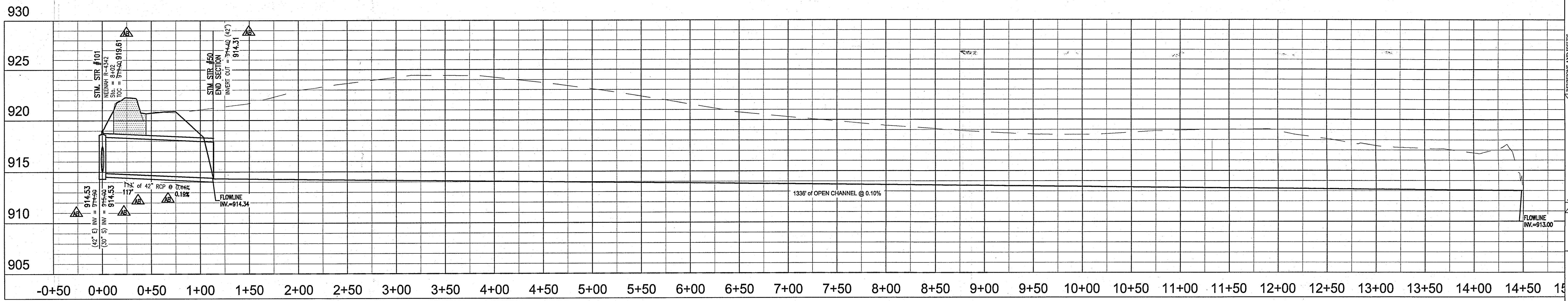
JOSEPH TRTAN, LS21500003



OUTLET CHANNEL

▲ - AS-BUILT INFORMATION
 ✓ - BUILT AS PLANNED

DATE OF LAST FIELDWORK: 11/21/2019



STORM SEWER NOTES

REFER TO SHEET C601

STORM SEWER PLAN AND PROFILE LEGEND

- UTILITIES**
- FIRE DEPT HOODUP
 - FIRE HYDRANT
 - POST INDICATOR VALVE
 - WATER METER
 - WATER VALVE
 - GAS VALVE
 - ELECTRIC MANHOLE
 - FLOOR DRAIN
 - ELECTRIC OUTLET
 - ELECTRIC METER
 - ELECTRIC RISER
 - TRANSFORMER
 - GUY ANCHOR
 - ELECTRIC JUNCTION BOX
 - GENERATOR
 - UTILITY POLE
 - UTILITY POLE W/ TRANSFORMER
 - MONITORING WELL
 - LIQUID PROPANE GAS TANK
 - STREET LIGHT
 - PARKING LOT LIGHT (1 HEAD)
 - COMMUNICATIONS JUNCTION BOX
- UTILITIES**
- COMMUNICATIONS MANHOLE
 - COMMUNICATIONS PEDESTAL
 - COMMUNICATIONS RISER
 - TRAFFIC SIGNAL POLE
 - TRAFFIC SIGNAL
 - STORM CLEANOUT
 - BEEHIVE INLET
 - CURB INLET
 - STORM MANHOLE
 - SQUARE INLET
 - STORM MANHOLE
 - ROUND INLET
 - DOWN SPOUT
 - SANITARY SEWER CLEANOUT
 - LIFT STATION
 - SANITARY SEWER MANHOLE
 - OTHER
 - POST
 - GATE POST
 - BOLLARD
 - PARKING WHEEL STOP
 - ACCESSIBLE SPACE
 - EMERGENCY FLOOD ROUTE
 - FLOW DIRECTION AND SLOPE

- LINE TYPES**
- RIGHT OF WAY LINE
 - FENCE
 - GUARD RAIL
 - BOUNDARY LINE
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - UNDERGROUND GAS
 - UNDERGROUND WATER
 - AERIAL ELECTRIC
 - UNDERGROUND ELECTRIC
 - UNDERGROUND COMMUNICATIONS
 - AERIAL COMMUNICATIONS
 - UNDERGROUND FIBER OPTIC
 - AERIAL FIBER OPTIC CABLE
 - OVERHEAD UTILITY
 - FORCE MAIN
 - SANITARY SEWER LATERAL
 - SANITARY SEWER MAIN
 - ROOF DRAIN
 - SUB SURFACE DRAIN
 - STORM SEWER MAIN

- ABBREVIATIONS**
- ROW - RIGHT OF WAY
 - ESMT - EASEMENT
 - D.U.E. - DRAINAGE AND UTILITY EASEMENT
 - FFE - FINISH FLOOR ELEVATION
 - TOC - TOP OF CASTING
 - CMP - CORRUGATED METAL PIPE
 - RCP - REINFORCED CONCRETE PIPE
 - PVC - POLYVINYL CHLORIDE PIPE
 - VCP - VITRIFIED CLAY PIPE
 - HDPE - HIGH DENSITY POLYETHYLENE PIPE
 - DIP - DUCTILE IRON PIPE
 - SSD - SUB SURFACE DRAIN PIPE
 - STM - STORM
 - SAN - SANITARY
 - STR - STRUCTURE
 - CO - CLEANOUT

SPECIAL INSTRUCTIONS:

SEEDING AND FERTILIZING

ALL DISTURBED AREAS SHALL BE SMOOTHLY GRADED, SEEDING AND MULCHED. REFER TO SEEDING AND FERTILIZING SECTION OF THE GENERAL PROVISIONS (PAGE 18 AND 20) FOR REQUIREMENTS (HAMILTON COUNTY SURVEYOR SPECIFICATIONS).

(FOR DIFFERING SEED MIXES) THE SEED MIX LISTED IN THE "SEEDING AND FERTILIZING" SECTION WILL NOT BE USED FOR THIS PROJECT (HAMILTON COUNTY SURVEYOR SPECIFICATIONS).

THE FOLLOWING SEED MIX SHALL BE USED IN ALL INSTANCES OF THIS PROJECT:

FOR DISTURBED AREAS ALL SEEDING AREAS SHALL BE ADEQUATELY WATERED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT. THE COST FOR SUCH WATERING SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.

GENERAL SPECIFICATIONS

SEEDING AND FERTILIZING:

1. CHANNEL SIDE SLOPES WILL BE SEEDING TWICE. THE FIRST SEEDING WILL OCCUR AT THE END OF EACH DAY'S CONSTRUCTION, WHILE THE GROUND IS STILL MOIST. FERTILIZER WILL BE APPLIED. APPLY THE SECOND SEEDING JUST PRIOR TO FINAL INSPECTION. ONLY THOSE AREAS WHERE THE GRASS HAS NOT GERMINATED WILL BE SEEDING THE SECOND TIME. THE SEED AND FERTILIZER WILL BE APPLIED WITH A BROADCAST TYPE SEEDER.

QUANTITIES:

- TALL FESCUE (LOW OR ENDOPHYTE FREE) 35 LBS/ACRE
- ANNUAL RYE GRASS 20 LBS/ACRE
- 15-15-12 FERTILIZER 1000 LBS/ACRE

SUBSTITUTE THE FOLLOWING FOR RYE GRASS

- ONTS—MARCH 15 THROUGH MAY 1
- WHEAT—OCTOBER 1 THROUGH NOVEMBER 1

2. DISTURBED AREAS THAT ARE NOT IN CROP PRODUCTION WILL BE SEEDING AND FERTILIZED UPON FINAL GRADING. APPLY FERTILIZER AND WORK INTO THE SOIL TO A DEPTH OF TWO (2) INCHES OR THREE (3) INCHES WITH A HARROW OR DISC. PREPARE A FIRM SEED BED WITH A CULTIPACKER OR CULTIPACKER TYPE SEEDER. WORK THE SEED INTO THE SOIL 1/4 TO 1/2 INCH DEEP. STRAW MULCH WILL BE USED AROUND EROSION CONTROL STRUCTURES AND OTHER CRITICAL AREAS AS DETERMINED BY THE PROJECT INSPECTOR.

QUANTITIES:

- GENERAL PURPOSE FARM MIX 20 LBS/ACRE
- 15-15-12 FERTILIZER 1000 LBS/ACRE
- STRAW MULCH (WHERE REQUIRED) 3000 LBS/ACRE

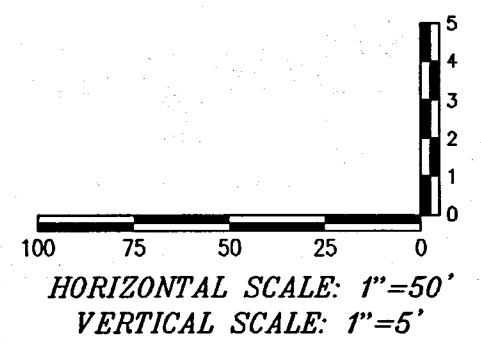
GENERAL PURPOSE MIX:

- 20% PERENNIAL RYE GRASS
- 20% TIMOTHY
- 13% ORCHARD GRASS
- 12% RED STAR CLOVER
- 12% TALL FESCUE
- 12% VERNAL ALFALFA
- 11% ALSIKE CLOVER

3. ALL EROSION STRUCTURES, WATERWAYS OR OTHER AREAS INDICATED IN THE SPECIAL INSTRUCTIONS SHALL BE MULCHED. MULCH SHALL CONSIST OF 12 TONS OF DRY MATERIAL PER ACRE. MATERIAL SHALL CONSIST OF STRAW OR HAY OR OTHER, IF APPROVED BY THE SURVEYOR. MULCH SHALL BE APPLIED AT A RATE OF FIFTY-FIVE (55) BALES PER ACRE AFTER SEEDING-FERTILIZING THE AREA.

LEGEND

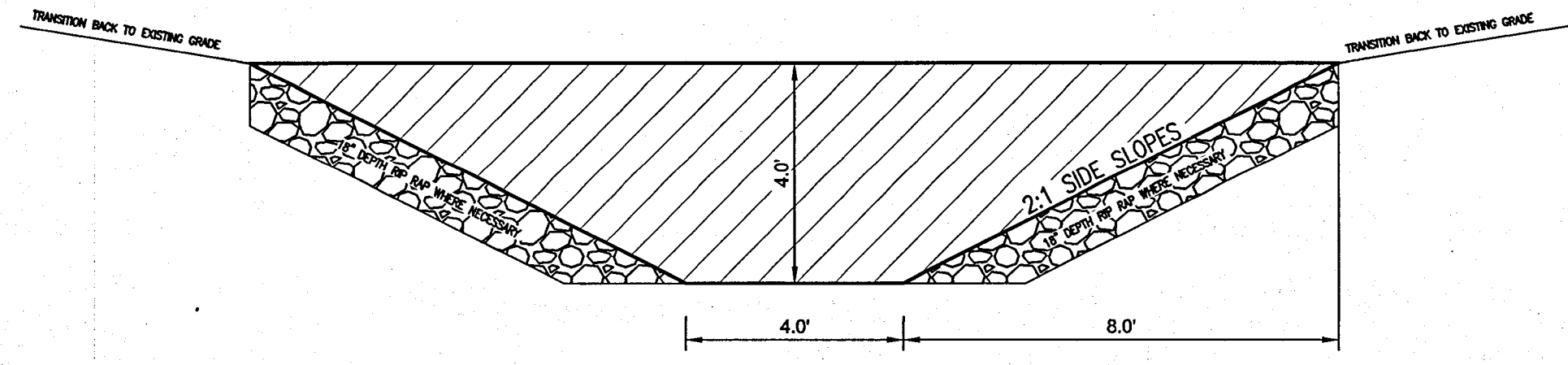
- EXISTING GRADE
- FINISHED GRADE
- GRANULAR BACKFILL
- SPECIAL SEEDING (Hatch shown on drawing may or may not represent entire area to be seeded. Contractor to follow specifications on this sheet from the Hamilton County Surveyor's Office.)
- EROSION CONTROL BLANKET - USE \$1500N BIO-NET AS SUPPLIED BY NORTH AMERICAN GREEN OR APPROVED EQUAL SINGLE LAYER, AS NEEDED.



This information was gathered for input into Hamilton County Geographic Information System (GIS). This document is considered official record of the GIS.

Entry Date: 2019

Entered By: SLM



PROPOSED CHANNEL CROSS SECTION
 (NO SCALE)

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weithe.net
 317 / 846 - 6611
 800 / 452 - 6408
 317 / 843 - 0546 / fax
 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture
Build with confidence.

DATE	BY	PROJECT NO.	REVISIONS AND ISSUES
02.15.2017	RLW	W16.0598	SUBMITTED FOR REVIEW
02.15.2017	RLW	W16.0598	RESUBMITTED TO ADDRESS COMMENTS
02.15.2017	RLW	W16.0598-001	PLANS MODIFIED FOR EXTENDED LEGAL DRAIN
03.12.2018	RLW	W16.0598-001	PLANS REVISED
03.28.2018	RLW	W16.0598-001	PLANS REVISED FOR CLIENT CHANGES
04.11.2018	RLW	W16.0598-001	PLANS REVISED FOR CLIENT CHANGES
04.11.2018	RLW	W16.0598-001	PLANS REVISED FOR ADDITIONAL LIGHTING
02.22.2019	RLW	W16.0598-001	PLANS REVISED FOR TYPED AREA STYLE
11.22.2019	RLW	W16.0598-001	AS-BUILTS

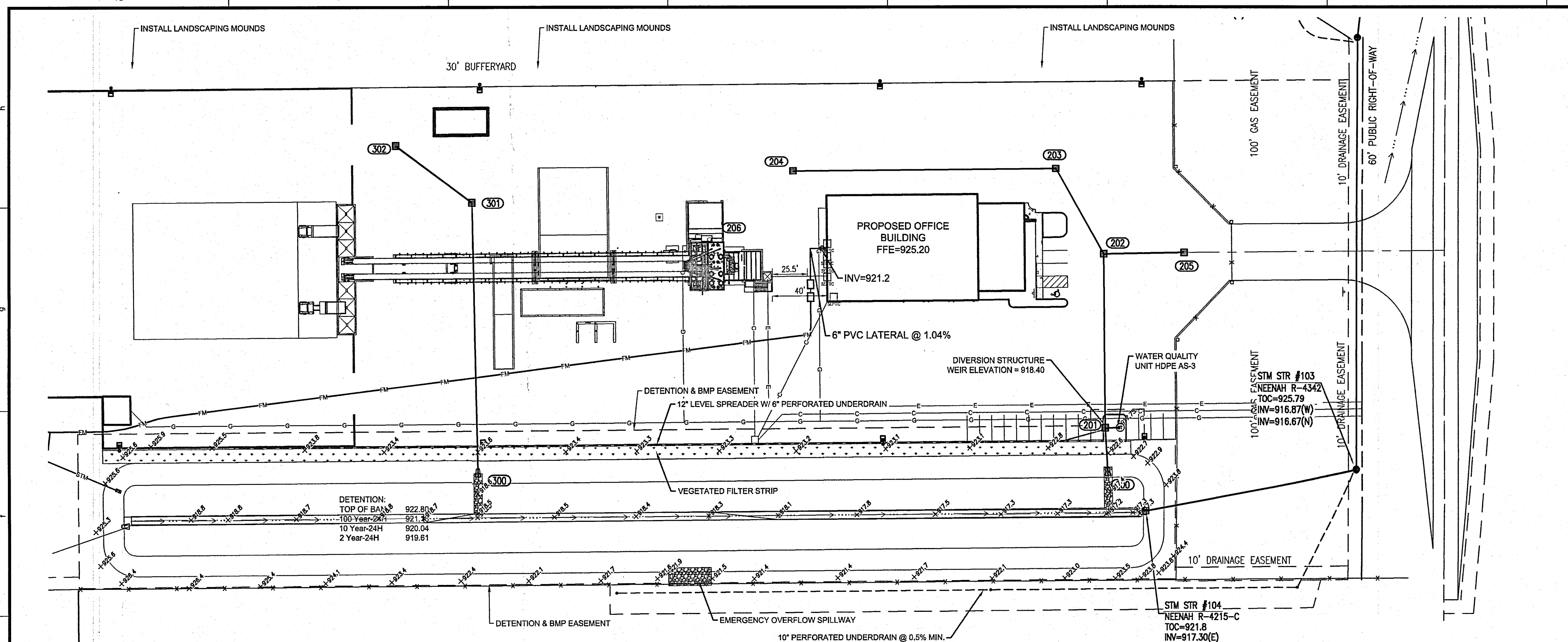
STEVEN SCOTT RUCKER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 PE11300279

THE CERTIFICATION OF THESE DRAWINGS DOES NOT INCLUDE THE SEPTIC DESIGN & PERMIT FOR DRAIN OR THE WELL LOCATION.

PREPARED FOR:
SHELBY MATERIALS
 MULE BARN ROAD, WESTFIELD, IN 46074
STORM SEWER & CHANNEL PLAN AND PROFILE
 Part of S&C, Section 31, Township 19 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO.
C602
 PROJECT NO.
 W16.0598

811
 Know what's below. Call before you dig.
 Within Indiana Call 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.
 PER INDIANA STATE LAW IC 8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



STORM SEWER PLAN AND PROFILE LEGEND

UTILITIES

- CISTERN
- DRINKING FOUNTAIN
- FIRE DEPT HOOKUP
- FIRE HYDRANT
- POST INDICATOR VALVE
- WATER METER
- WATER VALVE
- GAS METER
- GAS VALVE
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC RISER
- TRANSFORMER
- GUY ANCHOR
- ELECTRIC JUNCTION BOX
- GENERATOR
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- MONITORING WELL
- LIQUID PROPANE GAS TANK
- STREET LIGHT
- PARKING LOT LIGHT (1 HEAD)
- COMMUNICATIONS JUNCTION BOX
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS PEDESTAL
- COMMUNICATIONS RISER
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL
- STORM CLEANOUT
- BEEHIVE INLET
- CURB INLET
- FLOOR DRAIN
- SQUARE INLET
- STORM MANHOLE
- ROUND INLET
- DOWN SPOUT
- SANITARY SEWER CLEANOUT
- LIFT STATION
- SANITARY SEWER MANHOLE

ABBREVIATIONS

- ROW RIGHT OF WAY
- ESMT EASEMENT
- D.&U.E. DRAINAGE AND UTILITY EASEMENT
- FFE FINISH FLOOR ELEVATION
- TOC TOP OF CASTING
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- DIP DUCTILE IRON PIPE
- SSD SUB SURFACE DRAIN PIPE
- STM STORM STRUCTURE
- SAN SANITARY STRUCTURE
- CO CLEANOUT

LINE TYPES

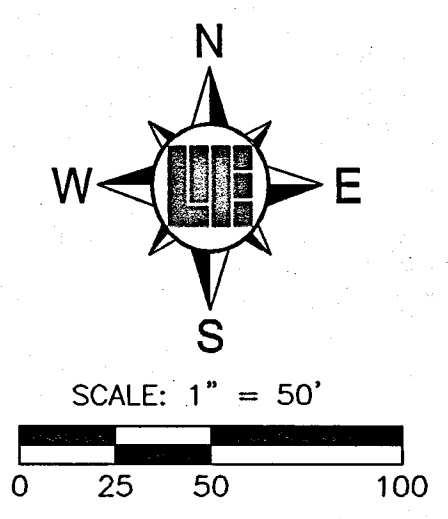
- RIGHT OF WAY LINE
- FENCE
- GUARD RAIL
- BOUNDARY LINE
- FLOW LINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- UNDERGROUND GAS
- UNDERGROUND WATER
- AERIAL ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND COMMUNICATIONS
- AERIAL COMMUNICATIONS
- UNDERGROUND FIBER OPTIC
- AERIAL FIBER OPTIC CABLE
- OVERHEAD UTILITY
- FORCE MAIN
- SANITARY SEWER LATERAL
- SANITARY SEWER MAIN
- SUB SURFACE DRAIN
- STORM SEWER MAIN

OTHER

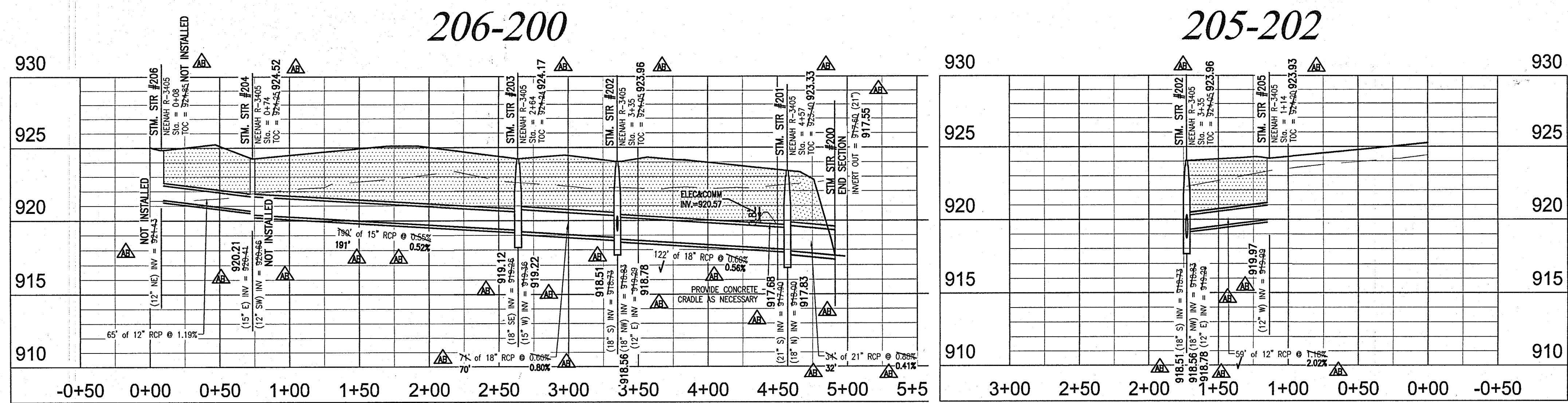
- FLAG POLE
- SIGN
- POST
- GATE POST
- BOLLARD
- PARKING METER
- PARKING WHEEL STOP
- ACCESSIBLE SPACE
- EMERGENCY FLOOD ROUTE
- FLOW DIRECTION AND SLOPE

LEGEND

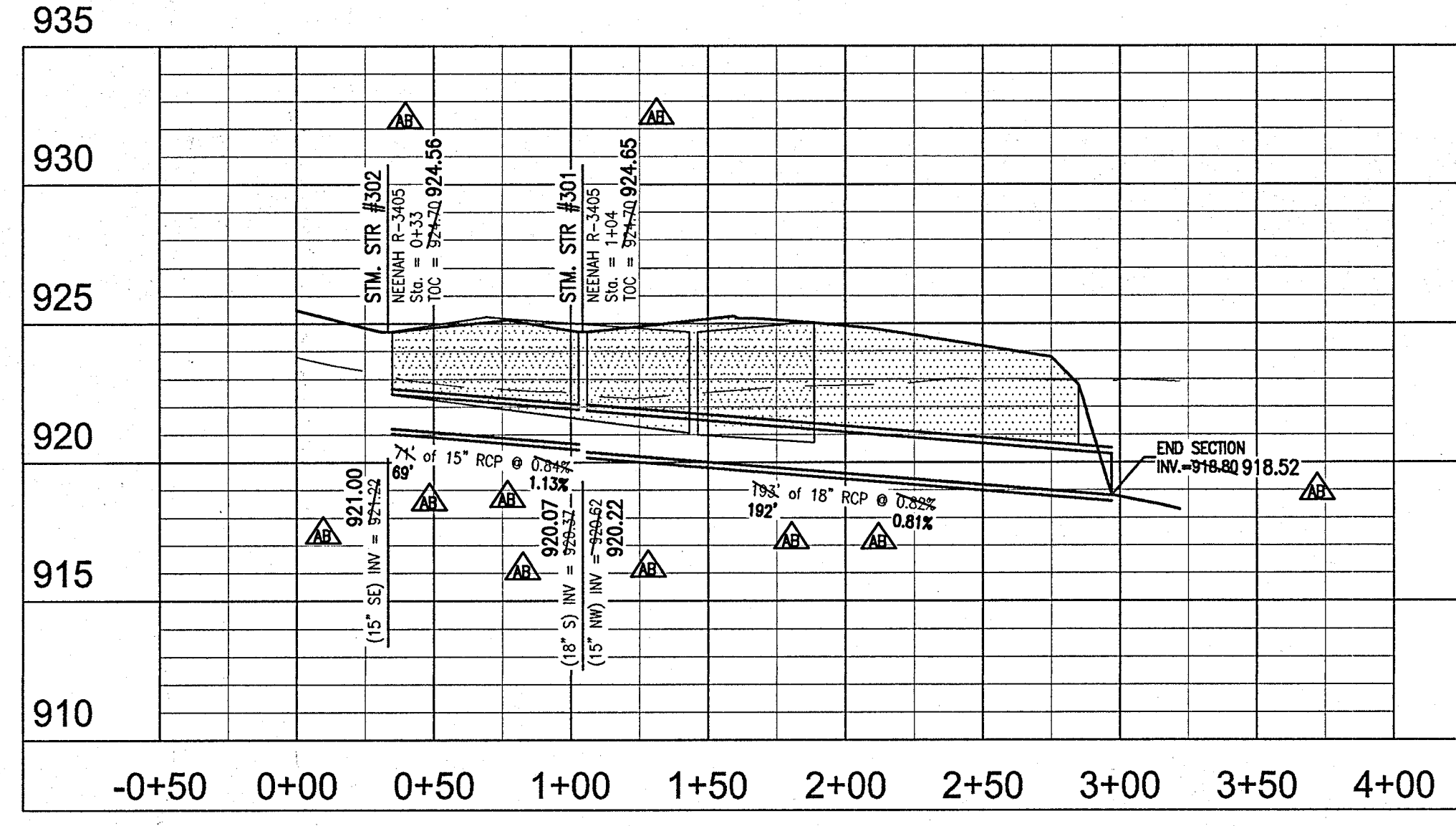
- EXISTING GRADE
- FINISHED GRADE
- █ GRANULAR BACKFILL



SCALE: 1" = 50'

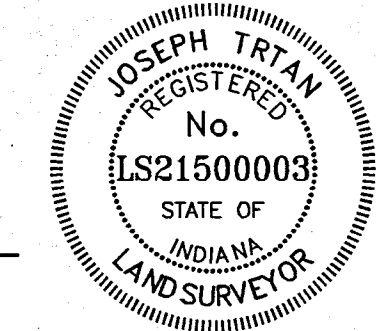


STORM 300



RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 12/4/2019

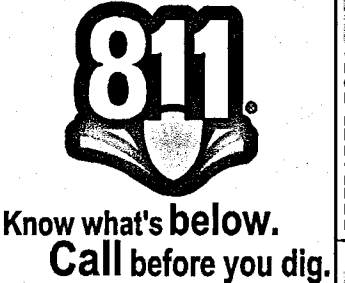
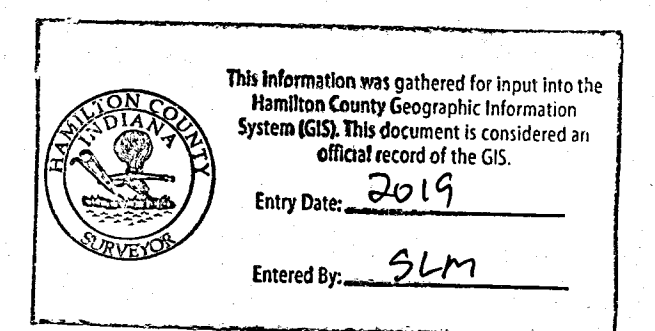
Joe Trtan
 JOSEPH TRTAN, LS21500003
 DATE OF LAST FIELDWORK: 11/21/2019



- ▲ - AS-BUILT INFORMATION
- ✓ - BUILT AS PLANNED

STORM SEWER NOTES

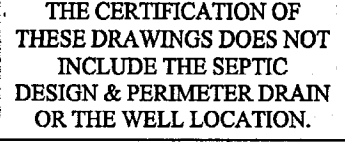
1. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
2. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
3. THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
5. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
7. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
8. ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
9. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
10. MAINTAIN 18\"/>



10505 N. College Avenue
 Indianapolis, Indiana 46280
 weithe.net
 317 | 846 - 6611
 800 | 452 - 6408
 317 | 843 - 0546/gaz
 ALLAN H. WEIHE, P.E., L.S., FOUNDER

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture
Build with confidence.

DATE	BY	REVISIONS AND ISSUES
02/12/2017	RLW	PROJECT NO.: W16.0598
04/11/2017	RLW	DRAWING NAME: STORM SEWER PLAN AND PROFILE
07/11/2017	RLW	PROJECT NO.: W16.0598-001
07/11/2017	RLW	DESIGNED BY: JRM
07/11/2017	RLW	PLANS REVIEWED: JRM
07/11/2017	RLW	PLANS REVISIONS FOR CLIENT CHANGES
07/11/2017	RLW	PLANS REVISIONS FOR PLANT CHANGES
07/11/2017	RLW	PLANS REVISIONS FOR ADDITIONAL LIGHTING
07/11/2017	RLW	PLANS REVISIONS FOR HDPE AQUA SWIRE
11/22/2019	RLW	AS-BUILTS



THE CERTIFICATION OF THESE DRAWINGS DOES NOT INCLUDE THE SEPTIC DESIGN & PERMITS, PERMITS DRAIN OR THE WELL LOCATION.

PREPARED FOR:
SHELBY MATERIALS
 MULE BARN ROAD, WESTFIELD, IN 46074
STORM SEWER PLAN AND PROFILE
 PROJECT NO.: **W16.0598**
 SHEET NO.: **C603**

LOCATION: I:\2019\W160598\Engineering\Submittals\AB\Consent\AB W160598-001 storm ssp.gaz
 DATE/TIME: December 04, 2019 - 10:40am
 PLOTTED BY: meyer