

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

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

August 19, 2016

To: Hamilton County Drainage Board

Re: Thistlewood Drain – Trader's Point Church of Carmel Reconstruction

Attached is a petition from Central Christian Church, seller of the property to Trader's Point Church of Carmel, along with plans, calculations, and quantity summary for the proposed reconstruction of the Thistlewood, Section 1 Arm of the Thistlewood Drain. The proposal is to reconstruct and relocate the drain for the expansion of parking lots for the new church at this site.

The drain reconstruction will those lengths of pipes between the following structures as shown on sheet C300 of the plans for Trader's Point Church of Carmel, designed by Weihe Engineers, dated May 19, 2016, and having job number W15-0483.

The new relocated drain shall begin at existing Str. 116, which is the end point of the original drain and labeled in the new plans as Str. 100. The drain goes to new Str. 101 with 50 feet of 24" RCP, then to Str. 102 with 65 feet of 15" RCP, then 296 feet of 6" SSD running through the existing dry detention basin. Also included as new drain is 32 feet of 12" RCP from new Str. 101 to Str. 103. Another change is existing Str. 115, which is an end section, will be removed and replaced with an outlet control manhole, labeled as Str. 104.

The total length of new drain for this arm shall be 443 feet. The 390 feet of the original drain between existing Str. 116 - 102, from Str. 102 to concrete swale, and the concrete swale shall be vacated. This proposal will add 53 feet to the Thistlewood Regulated Drain's total length.

The dry detention basin located on parcel 17-09-23-00-00-009.001, owned by Traders Pint Christian Church, Inc., is not to be considered part of the regulated drain. Basin maintenance assumed by the Drainage Board shall only include the inlets, outlets, and SSD which are part of the Thistlewood Regulated Drain. The maintenance of the retention basin such as sediment removal and erosion control along the banks, mowing and vegetation maintenance and control will be the responsibility of the property owner. The Board will retain jurisdiction for ensuring

the storage volume for which the basin was designed will be retained. Thereby, allowing no fill or easement encroachments.

I have reviewed the plans and believe that parcel 17-09-23-00-00-009.001, owned by Traders Point Christian Church, Inc., has been benefitting from the drain since 1984 and will continue to benefit from the drain. Therefore, I recommend the parcel be assessed to the drain at a commercial rate of \$35.00 per acre, with a \$75.00 minimum. With this assessment the total annual assessment for this parcel will be \$208.60 and increase the total annual assessment for the drain from \$2,109.38 to \$2,319.98.

The cost of the reconstruction is to be paid by Trader's Point Christian Church, Inc.

This reconstruction affects the following parcels and owners:

17-09-23-00-00-009.001	Traders Point Christian Church, Inc.
17-09-23-04-05-011.000	Bonnita Hess
17-09-23-04-05-012.000	Donald & Diana Cochran

The easement shall remain the easement from my original report dated May 1, 1984 and approved by the Board on July 9, 1984 (See DB Minutes Book 2, Page 3). The easement is recorded in the Office of the Hamilton County Recorder in Easement Book 1, pages 769 to 773.

I recommend the Board set a hearing for this proposed drain for October 24, 2016.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

FILED

MAR 16 2011

OFFICE OF HAMILTON COUNTY SURVEYOR

IN RE: _____)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

_____ Central Christian Church _____ (hereinafter "Petitioner"),
hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a
section of the _____ Thistlewood Regulated _____ Drain, and in support of
said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the _____ Thistlewood Regulated _____ Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the _____ Thistlewood Regulated _____ Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the _____ Thistlewood Regulated _____ Drain, without cost to other property owners on the watershed of the _____ Thistlewood Regulated _____ Drain.

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

Signed

Printed

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

Thistlewood Drain, Trader's Point Church of Carmel Reconstruction

Existing Structure 116 - 102

From Structure 102 to Concrete Swale

Concrete Swale

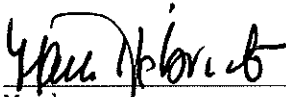
On this 24th day of October, 2016, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Thistlewood Drain, Trader's Point Church of Carmel Reconstruction, Existing Structure 116 - 102, From Structure 102 to Concrete Swale, Concrete Swale.

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the Thistlewood Drain, Trader's Point Church of Carmel Reconstruction, Existing Structure 116 - 102, From Structure 102 to Concrete Swale, Concrete Swale.

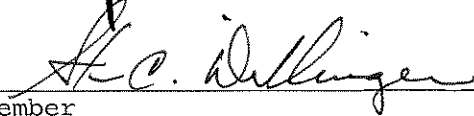
HAMILTON COUNTY DRAINAGE BOARD



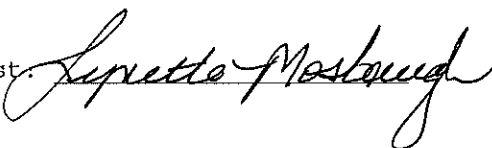
President



Member



Member

Attest. 

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
Thistlewood Drain, Trader's Point Church of Carmel Reconstruction

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *Thistlewood Drain, Trader's Point Church of Carmel Reconstruction* came before the Hamilton County Drainage Board for hearing on *October 24 2016*, 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.

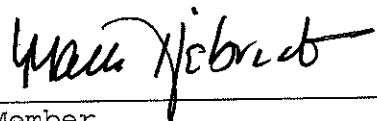
Wherefore, it is ORDERED, that the proposed Reconstruction of the *Thistlewood Drain, Trader's Point Church of Carmel Reconstruction* be and is hereby declared established.

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:

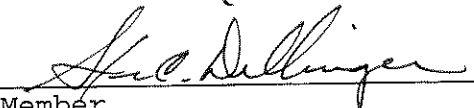
HAMILTON COUNTY DRAINAGE BOARD



PRESIDENT



Member



Member

ATTEST:


Executive Secretary

Greg R. Hoyes

From: Mark Thorpe <thorpem@weihe.net>
Sent: Tuesday, August 30, 2016 3:54 PM
To: Greg R. Hoyes
Subject: RE: Trader's Point Church

Greg –

Please find the following Cost Opinion:

1. 6" SSD @ \$18.00 l.f. x 296 l.f. = \$5,328.00
2. 12" RCP @ \$32.00 l.f. x 32 l.f. = \$1,024.00
3. 15" RCP @ \$36.00 l.f. x 65 l.f. = \$2,340.00
4. 24" RCP @ \$59.00 l.f. x 50 l.f. = \$2,950.00

Total Cost Opinion: \$11,642.00

Let me know if you have any additional questions.

Thanks,
Mark

Mark L. Thorpe, R.L.A.
Sr. Project Manager, Commercial Development
Weihe Engineers, Inc.
317 | 846 - 6611
317 | 910 - 8188 cell
weihe.net

From: Greg R. Hoyes [<mailto:Greg.Hoyes@hamiltoncounty.in.gov>]
Sent: Monday, August 29, 2016 2:39 PM
To: Mark Thorpe <thorpem@weihe.net>
Subject: RE: Trader's Point Church

Mark

Since that is not itemized, can Weihe generate an engineer's estimate for 296 ft. of 6" SSD, 50 ft. of 24" RCP, 65 ft. of 15" RCP and 32 ft. of 12" RCP?

Greg Hoyes, ac, CFM, CPESC
Plan Reviewer
Hamilton County Surveyor's Office

From: Mark Thorpe [<mailto:thorpem@weihe.net>]
Sent: Monday, August 29, 2016 8:24 AM
To: Greg R. Hoyes
Subject: RE: Trader's Point Church

Greg –

PROPOSAL

JP



Excavating Inc.

11950 VANDERGRIFF ROAD
INDIANAPOLIS, INDIANA 46239

SUBMIT TO:
T&W CORPORATION 3841 WEST MORRIS STREET INDIANAPOLIS, IN 46241

JASON - 317-281-5534 - JPEINC@HOTMAIL.COM

DATE	PROPOSAL	PROJECT
03/10/16	130	TRADERS POINT CHURCH CARMEL

ITEM	DESCRIPTION	TOTAL
EROSION CONTROL	INSTALL SILT FENCE, CONCRETE WASH OUT PIT AND TREE PROTECTION	3,410.64
DEMOLITION	REMOVE TREES, ASPHALT AND STORM PIPE COMPONENTS. * DIG OUT TREES TO BE REMOVED AND HAUL OFF SITE AS PER PLAN. * CUT PAVING, DIG UP AND HAUL OFF SITE AS PER PLAN. * REMOVE ALL STORM COMPONENTS AS PER PLAN AND HAUL OFF SITE.	14,327.50
STORM	INSTALL NEW STORM STRUCTURES, RCP PIPE, SUBSURFACE PIPE, END SECTIONS AND INFILTRATION STRIP. * SET NEW STRUCTURES AND LAY RCP PIPE AS PER REVISED PLAN. * INSTALL SNOOT IN STORM STRUCTURE. * INSTALL BMP AND DIVERSION MANHOLE AS PER REVISED PLAN. * POUR CONCRETE COLLARS AND FLOWLINES IN STRUCTURES AS PER PLAN. * INSTALL END SECTIONS AND TOE ANCHORS AS PER PLAN. * INSTALL ALL NEW 6" SUBSURFACE AROUND PARKING LOTS AND TIE INTO STRUCTURES AS PER PLAN WITH CLEANOUTS. * INSTALL 6" SUBSURFACE LEADERS IN PARKING LOT AS PER REVISED PLAN. * INSTALL 6" SUBSURFACE PIPE AS PER REVISED PLAN. * INSTALL 6" HDPE AND CLEANOUTS AS PER REVISED PLAN. * INSTALL 6' INFILTRATION STRIP AS PER PLAN.	81,410.94
SITE WORK	STRIP TOPSOIL, CUT/FILL PARKING AREAS, CUT SIDEWALKS, CUT DETENTION PONDS AND ROUGH FINISH GRADE TOPSOIL. * STRIP OFF TOPSOIL AND STOCKPILE. * CUT/FILL PARKING LOTS TO +/- .10 OF FINISH PROPOSED SUBGRADE. * CUT OUT AND RESHAPE DETENTION PONDS AS PER PLAN. * CUT OUT SIDEWALK TO +/- .10 OF PROPOSED SUBGRADE. * INSTALL 3' STONE LEDGER AROUND PARKING LOT AS PER PLAN. * ROUGH FINISH GRADE TOPSOIL FOR LANDSCAPER.	48,924.00

* PAYMENT DUE WITHIN 30 DAYS OF COMPLETION OF WORK.

* ALL LABOR, MATERIALS AND EQUIPMENT ARE INCLUDED IN THIS BID UNLESS SPECIFIED.

* PRICES FOR THIS PROPOSAL ARE GOOD FOR 15 DAYS.

* ANY NEEDED PERMITS AND/OR FEES ARE NOT INCLUDED IN THIS BID UNLESS SPECIFIED.

JP Excavating Inc.:

TOTAL 5142,073.08

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

*Thistlewood Drain,
Trader's Point Church of Carmel 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 **Thistlewood Drain, Trader's Point Church of Carmel Reconstruction** on **October 24, 2016** 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 **Thistlewood Drain, Trader's Point Church
of Carmel Reconstruction**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **October 24, 2016** 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.

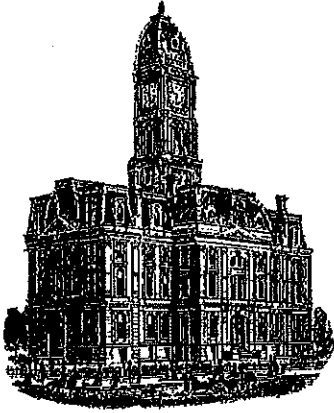
If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Christine Altman
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY

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

To: Hamilton County Drainage Board

September 11, 2017

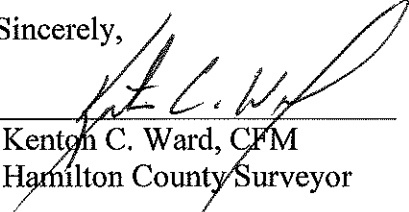
Re: Thistlewood Drain – Trader’s Point Church of Carmel Reconstruction,

Attached are as-built, certificate of completion & compliance, and other information for the Trader’s Point Church of Carmel 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. The report was approved by the Board at the hearing held October 24, 2016. (See Drainage Board Minutes Book 16, Pages 163-165)
The changes are as follows: the 6” SSD is now 296 feet and the 12” RCP is 32 feet. The 15” RCP is now 65 feet and the 24” RCP is now 49 feet. The length of the drain due to the changes described above is now **442 feet**. The project removed 423 feet of existing drain. Therefore, the project added 19 feet to the drain’s overall length.

The easement for this project was outlined in my original report to the board and a non-enforcement was not requested. The project was paid for by Trader’s Point Christian Church.

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

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: **TRADER'S POINT CHURCH**

I hereby certify that:

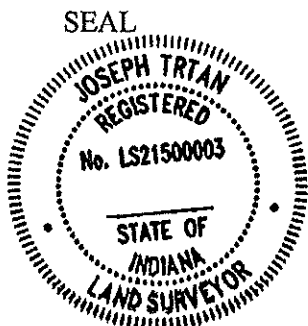
1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage 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: JE Tito Date: 9/7/2017

Type or Print Name: JOSEPH TRTAN

Business Address: 10505 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46280

Telephone Number: 317-846-6611



INDIANA REGISTRATION NUMBER
LS21500003

RECORD DRAWING CONSTRUCTION PLANS FOR TRADER'S POINT CHURCH OF CARMEL

1242 WEST 136TH STREET
CARMEL, IN 46032

RECORD DRAWING
6-12-2017

JOSEPH TRTAN, LS21500003

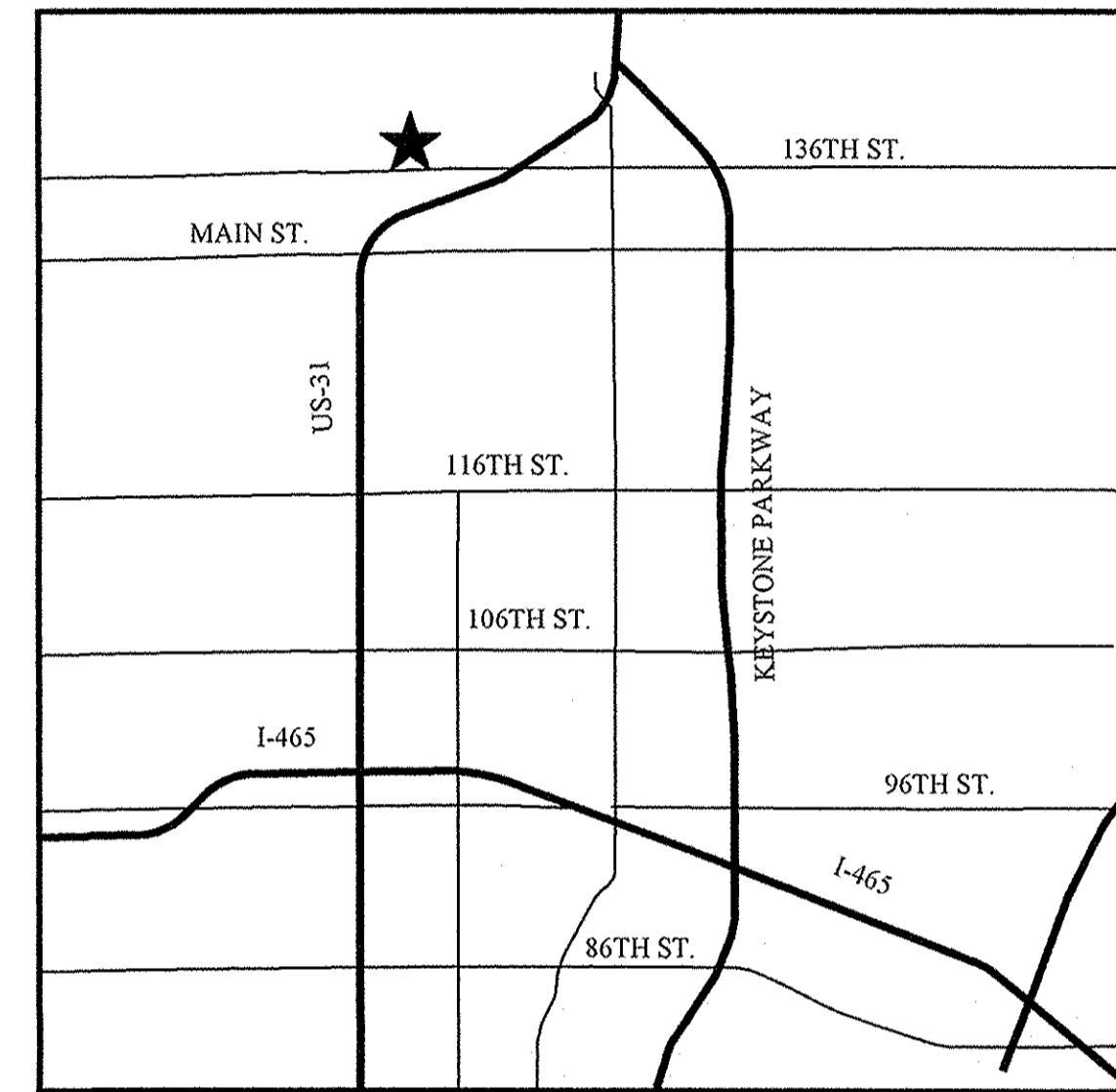


10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0546 (fax)
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

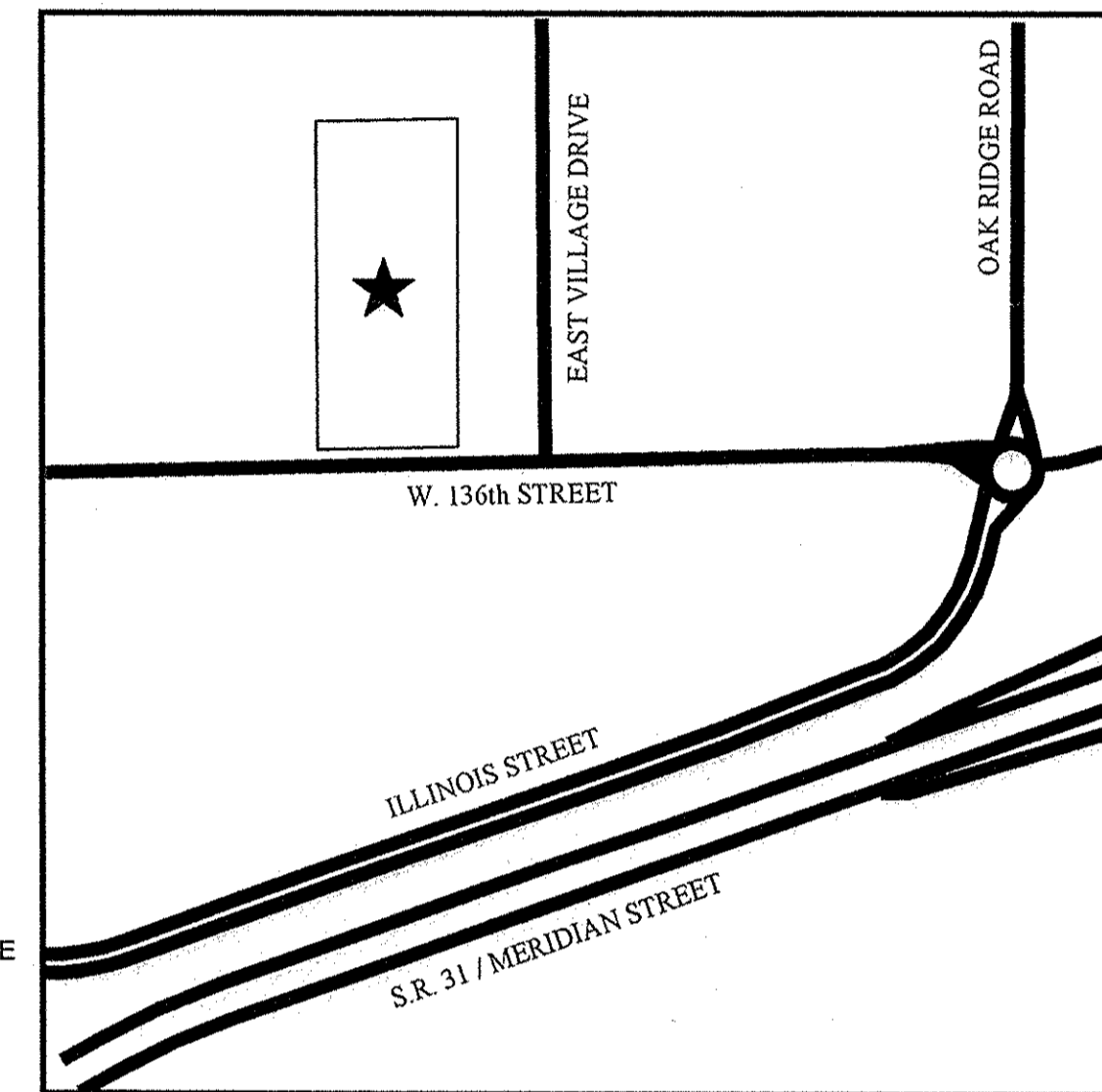
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PLANS PREPARED FOR
T&W CHURCH SOLUTIONS
3841 W. MORRIS ST.
INDIANAPOLIS, IN 46241
TELEPHONE: (317) 244-7637
CONTACT PERSON: STEPHEN D. SEHORN, LEED AP
EMAIL: SShehorn@TWCORP.COM

PLANS PREPARED BY:
WEIHE ENGINEERS, INC.
10505 N. COLLEGE AVE.
INDIANAPOLIS, INDIANA 46280
TELEPHONE: 317.846.6611
FAX: 317.843.0546
CONTACT PERSON: MARK THORPE, RLA
EMAIL: THORPEM@WEIHE.NET



★ PROJECT LOCATION
AREA MAP



★ PROJECT LOCATION
LOCATION MAP

Sheet List Table	
Sheet Number	Sheet Title
C001	TITLE SHEET
C100	SWPPP PHASE 1
C101	SWPPP PHASE 2
C102	SWPPP SPECIFICATIONS
C103	SWPPP DETAILS
C104	SWPPP DETAILS
C105	SWPPP DETAILS
C200	SITE PLAN
C201	SITE DETAILS
C300	GRADING AND DRAINAGE PLAN
C301	STORM SEWER DETAILS
C302	STORM SEWER DETAILS
C600	STORM SEWER PLAN AND PROFILE
C601	STORM SEWER PLAN AND PROFILE
C900	PROJECT SPECIFICATIONS
C901	PROJECT SPECIFICATIONS
L100	LANDSCAPE PLAN - TREES
L101	LANDSCAPE PLAN - SHRUBS
L200	LANDSCAPE DETAILS

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
- ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- IN ADDITION, EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
- THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER THAT ALL LANDSCAPE REQUIREMENTS ARE MET AND CONFORM TO APPLICABLE LOCAL STANDARDS.
- BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
- THIS SITE DOES NOT CONTAIN ANY WETLANDS AS SHOWN ON THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY MAP ONLINE, VIEWED DECEMBER 2015.

LAND DESCRIPTION

BEGINNING AT A POINT ON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 18 NORTH, RANGE 3 EAST; SAID POINT OF BEGINNING BEING NORTH 88 DEGREES 55 MINUTES 42 SECONDS EAST (ASSUMED BEARING) 1000.85 FEET FROM THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER; THENCE NORTH 00 DEGREES 00 MINUTES 28 SECONDS EAST 791.89 FEET; THENCE NORTH 88 DEGREES 55 MINUTES 42 SECONDS EAST 330.11 FEET TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SAID SOUTHEAST QUARTER; THENCE SOUTH 00 DEGREES 00 MINUTES 28 SECONDS WEST 791.89 FEET TO THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF SAID SOUTHEAST QUARTER; THENCE SOUTH 88 DEGREES 55 MINUTES 42 SECONDS WEST 330.11 FEET TO THE POINT OF BEGINNING.

**THE UNDERLINED COURSE WAS OMITTED FROM THE CURRENT DEED. THE OMITTED COURSE IS TRANSCRIBED FROM THE PRIOR DEED OF RECORD, JUSTIN A. ROBERTS TO BOARD OF TRUSTEES OF CENTRAL CHRISTIAN CHURCH, RECORDED JUNE 19, 1978, IN DEED RECORD 305, PAGE 26 IN THE OFFICE OF THE RECORDER OF HAMILTON COUNTY, INDIANA.

BENCHMARK INFORMATION

B.M. - A BRASS DISK, STAMPED HCRB 546, SET IN THE TOP OF A CONCRETE HEADWALL ON THE SOUTHWEST CORNER OF A BOX CULVERT FOR SPRINGMILL ROAD CROSSING OVER WILLIAMS CREEK, APPROXIMATELY 150 FEET NORTH OF 131ST STREET. STATE PLANE COORDINATES: N1723218.01 E188466.11 NAD 83 (CORRS98).

ELEV. 871.38 NAVD 88

T.B.M. 1 - A CUT ** LOCATED ON THE SOUTHEAST CORNER OF THE CONCRETE PAD FOR A TELEPHONE JUNCTION BOX, LOCATE 59 FEET NORTH OF THE CENTERLINE OF 136TH STREET AND 11 FEET EAST OF THE EAST LINE OF THE SURVEYED PROPERTY.

ELEV. 878.05 NAVD 88

OPERATING AUTHORITIES

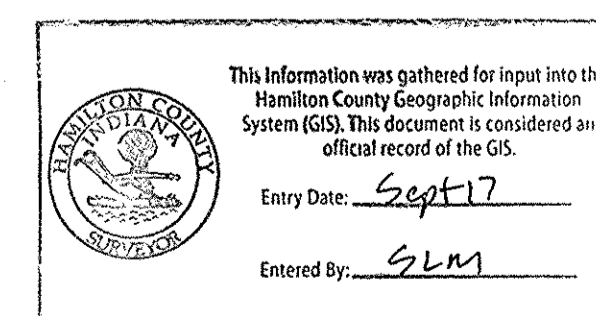
- CITY OF CARMEL PLANNING
ONE CIVIC SQUARE
CARMEL, IN 46032
ANGIE CONN
TEL: 317/571-2417
- CITY OF CARMEL ENGINEERING
ONE CIVIC SQUARE
CARMEL, IN 46032
MICHAEL MCBRIDE
TEL: 317/571-2441
- CITY OF CARMEL BLDG SERVICES
ONE CIVIC SQUARE
CARMEL, IN 46032
JIM BLANCHARD
TEL: 317/571-2444
- CITY OF CARMEL FIRE DEPARTMENT
TWO CIVIC SQUARE
CARMEL, INDIANA 46032
GARY HOYT
TEL: 317/571-2600
- CARMEL CITY UTILITIES
760 3RD ABE S.W.
CARMEL, INDIANA 46032
JOHN DUFFY
TEL: 317/571-2648
- HAMILTON COUNTY SURVEYOR
ONE HAMILTON COUNTY SQUARE
SUITE 188
NOBLESVILLE, INDIANA 46060
TEL: 317/776-8495
- HAMILTON COUNTY HIGHWAY DEPT
1700 SOUTH 10TH STREET
NOBLESVILLE, INDIANA 46060
TEL: 317/773-7770
- HAMILTON COUNTY HEALTH DEPARTMENT
18300 FOUNDATION DR. SUITE A
NOBLESVILLE, INDIANA 46060
JASON LEMASTER
TEL: 317/776-8500
- IPL
25 MONUMENT CIRCLE
INDIANAPOLIS, INDIANA 46204
LINDA RHEA
TEL: 317/261-5274
- DUKE ENERGY
100 SOUTH MILL CREEK RD.
NOBLESVILLE, INDIANA 46060
TEL: 317/776-5352
- CITIZENS WATER INDIANAPOLIS
1220 WATERWAY BLVD.
INDIANAPOLIS, INDIANA 46206
TEL: 317/263-7703
- COMCAST
9750 E. 150th STREET
SUITE 1600
NOBLESVILLE, INDIANA 46060
TEL: 317/776-4495
- VECTREN GAS
P.O. BOX 1700
NOBLESVILLE, INDIANA, 46060
TEL: 317/776-5573
- AT&T
5856 NORTH COLLEGE
INDIANAPOLIS, INDIANA 46220
TEL: 317/252-5168

CITY OF CARMEL STANDARD NOTES

- NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT
- THESE PLANS COMPLY WITH ALL ADA REQUIREMENTS.
- UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
- DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED / REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.

DESIGN DATA

EXISTING ZONING
S-2
ZONING OVERLAY
N/A
TOTAL ACREAGE
6.00 ACRES
NET ACREAGE
5.86 ACRES
BUILDING COVER RATIO
12.2%
BUILDING SQUARE FOOTAGE
30,304 SQUARE FEET
IMPERVIOUS COVER RATIO
59.5%
DISTURBED ACREAGE
2.85 ACRES

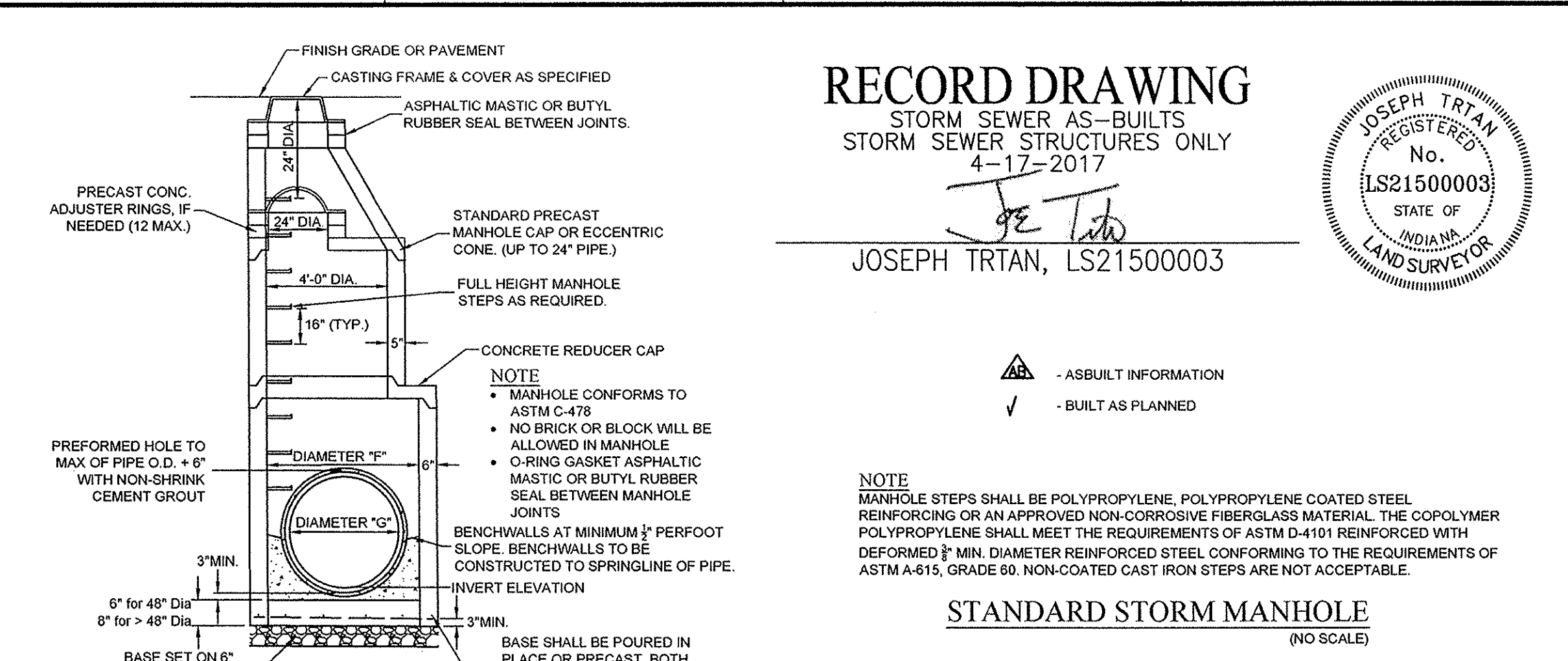
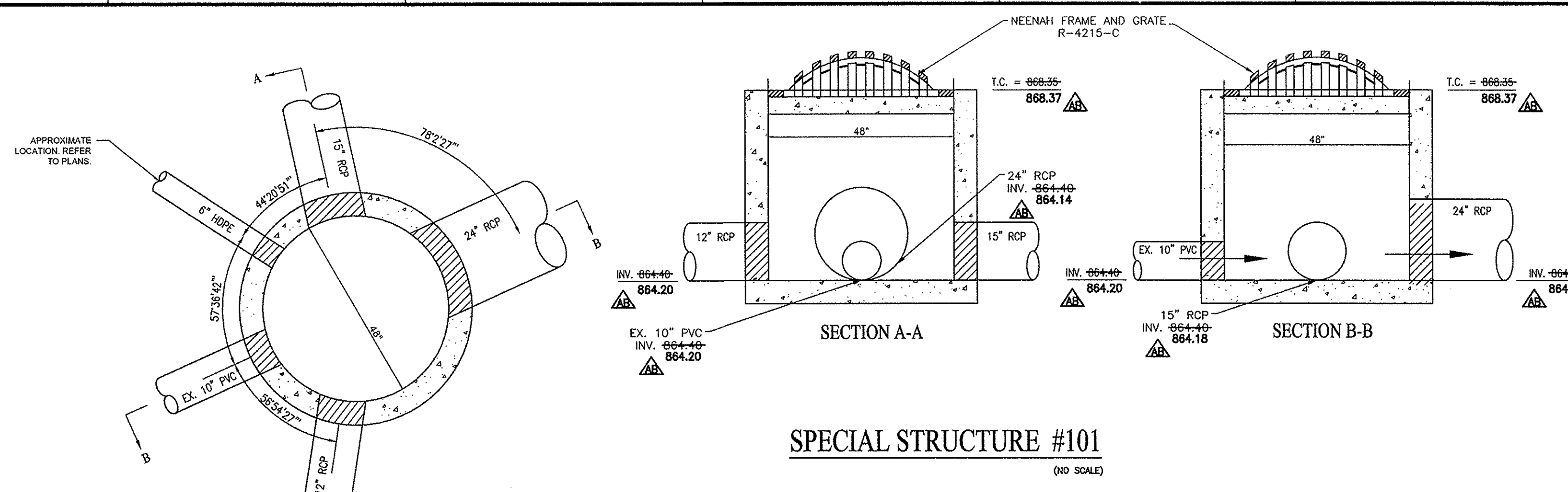


NOTE
NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT

FLOOD STATEMENT
THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE #18057C207G, DATED NOVEMBER 19, 2014

PREPARED FOR:
TRADER'S POINT CHURCH OF CARMEL
1242 WEST 136TH STREET, CARMEL, IN 46032
TITLE SHEET
SHEET NO. **C001**
PROJECT NO. **W15.0483**

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USER: jtrtan
DATE: 12/15/2017 10:15am
PLOT: 12/15/2017 10:15am

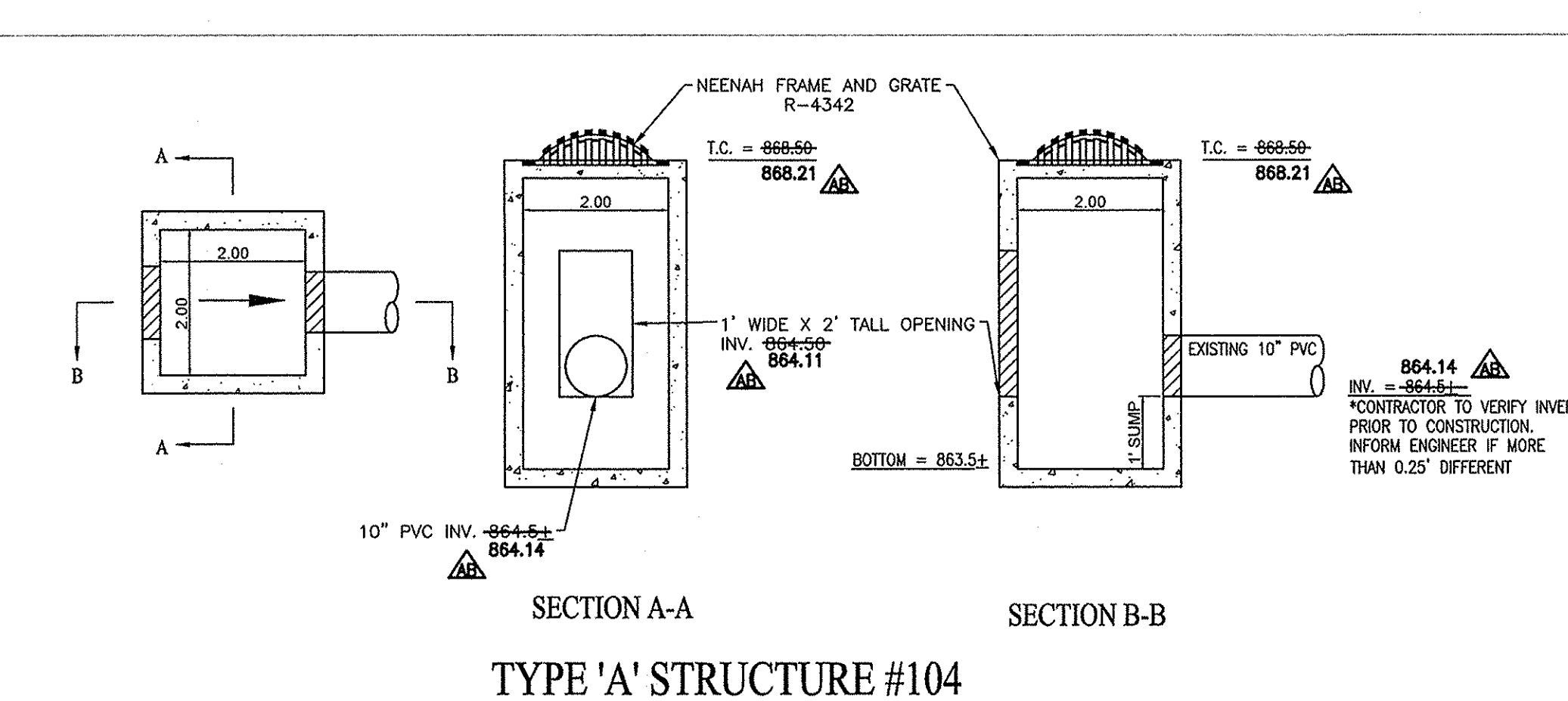
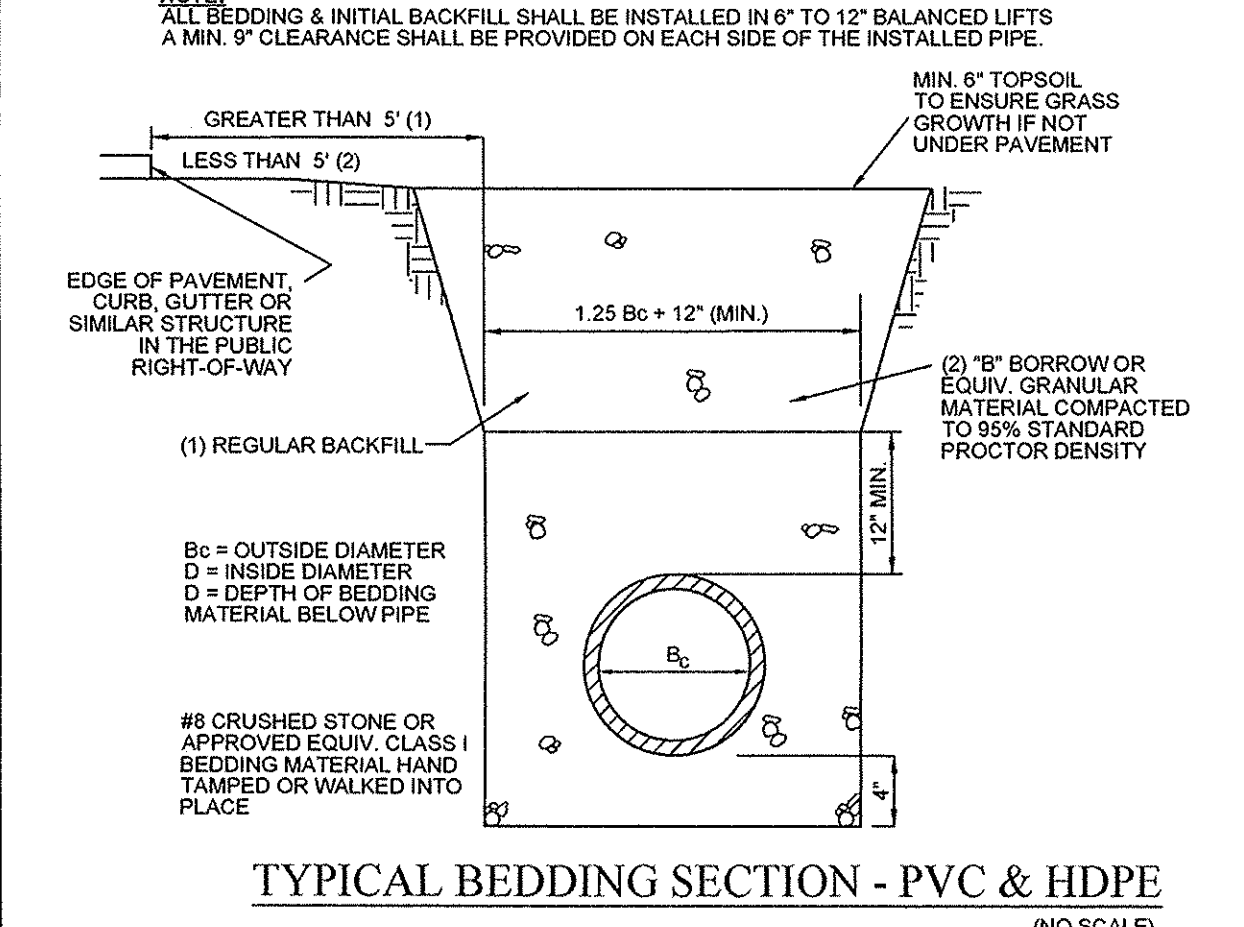
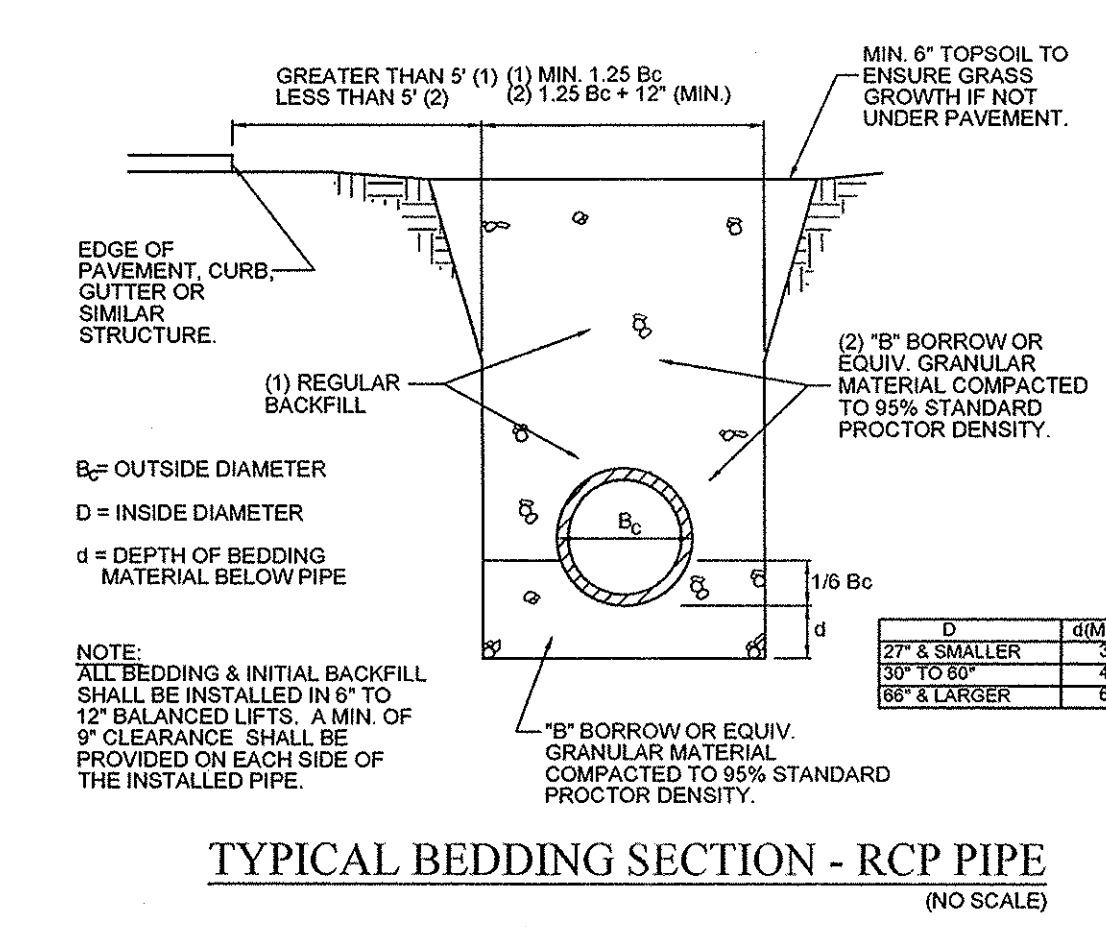
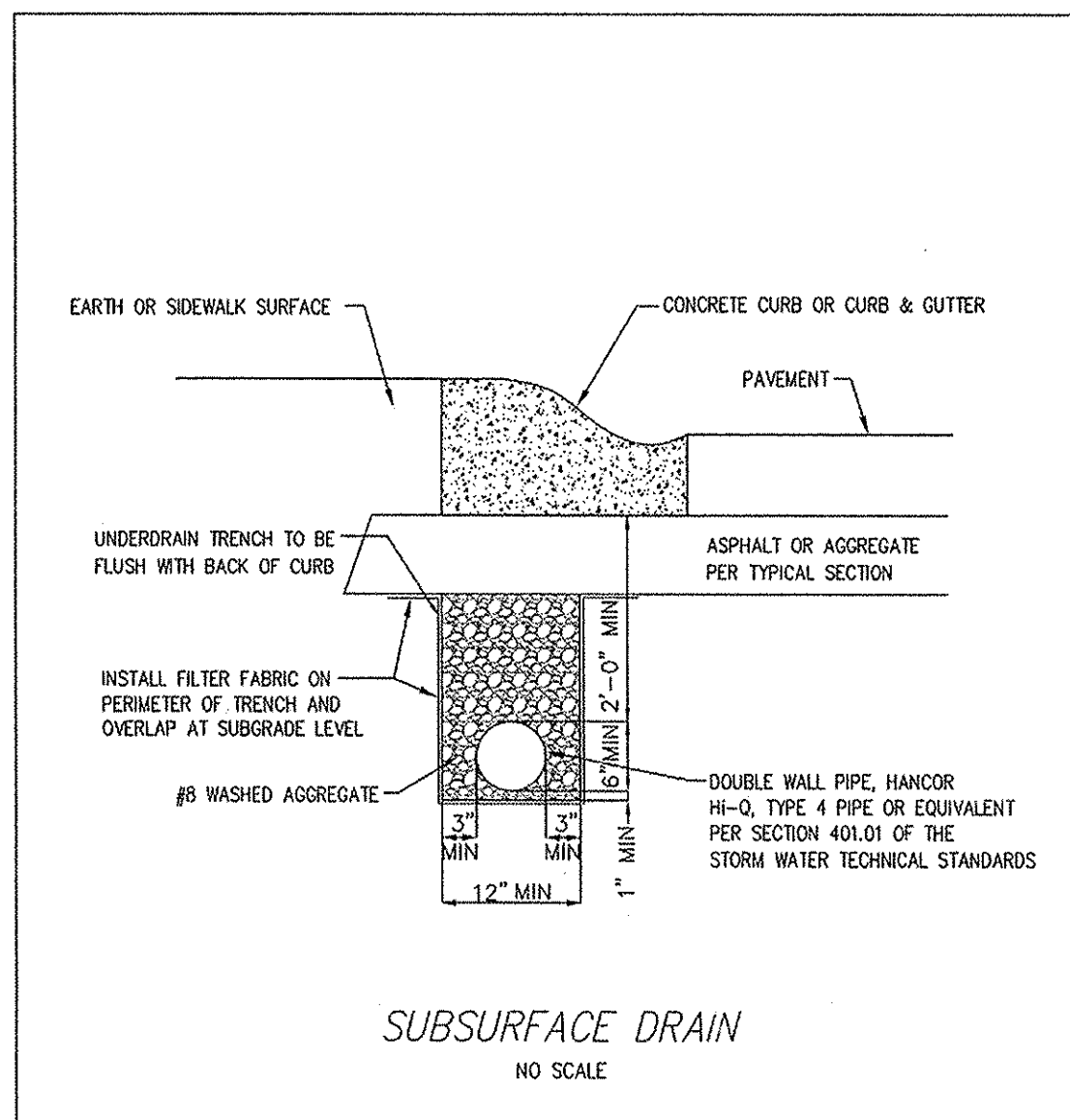
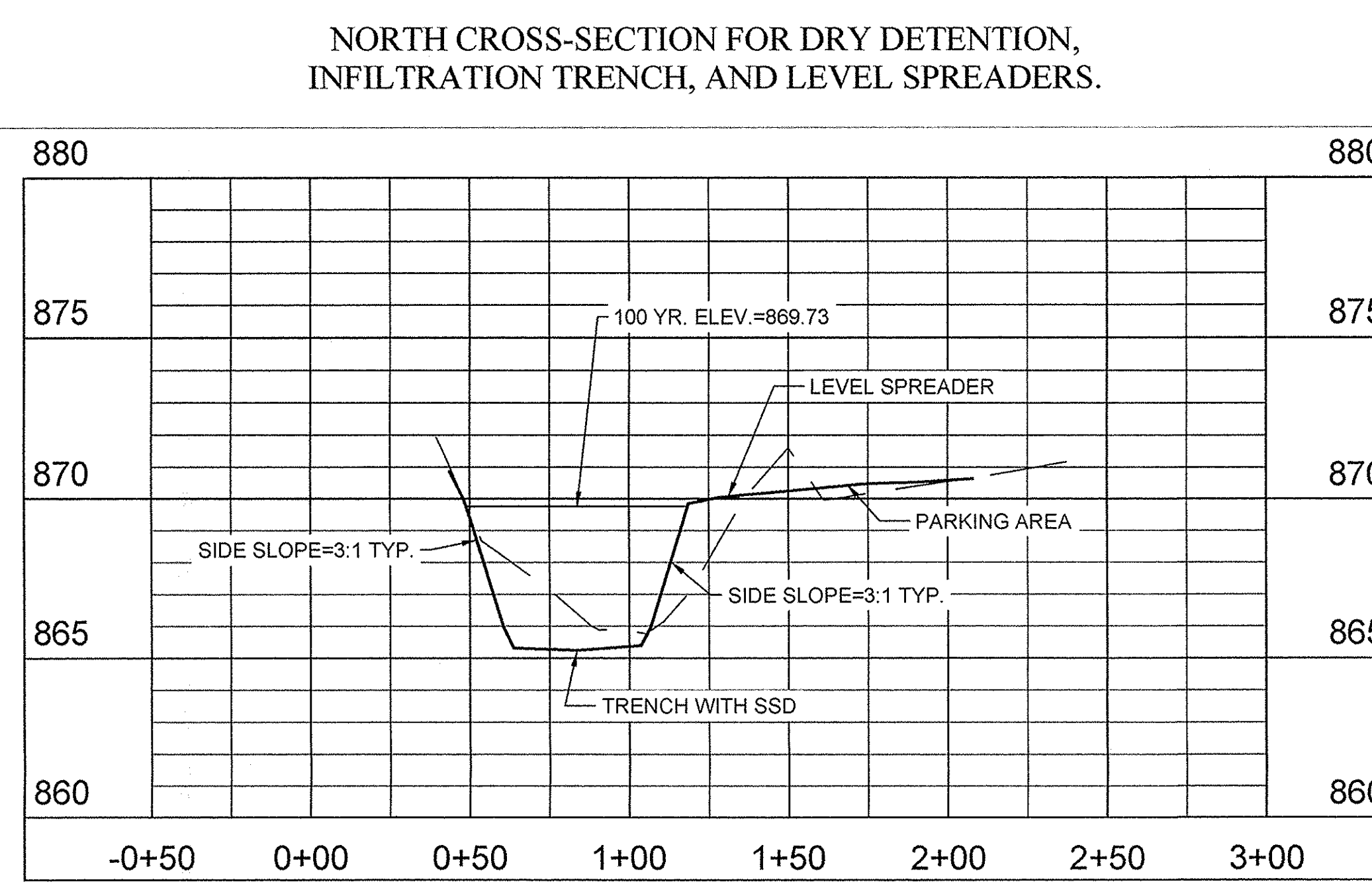


RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 4-17-2017

JOSEPH TRITAN, LS21500003
 REGISTERED LAND SURVEYOR
 STATE OF INDIANA

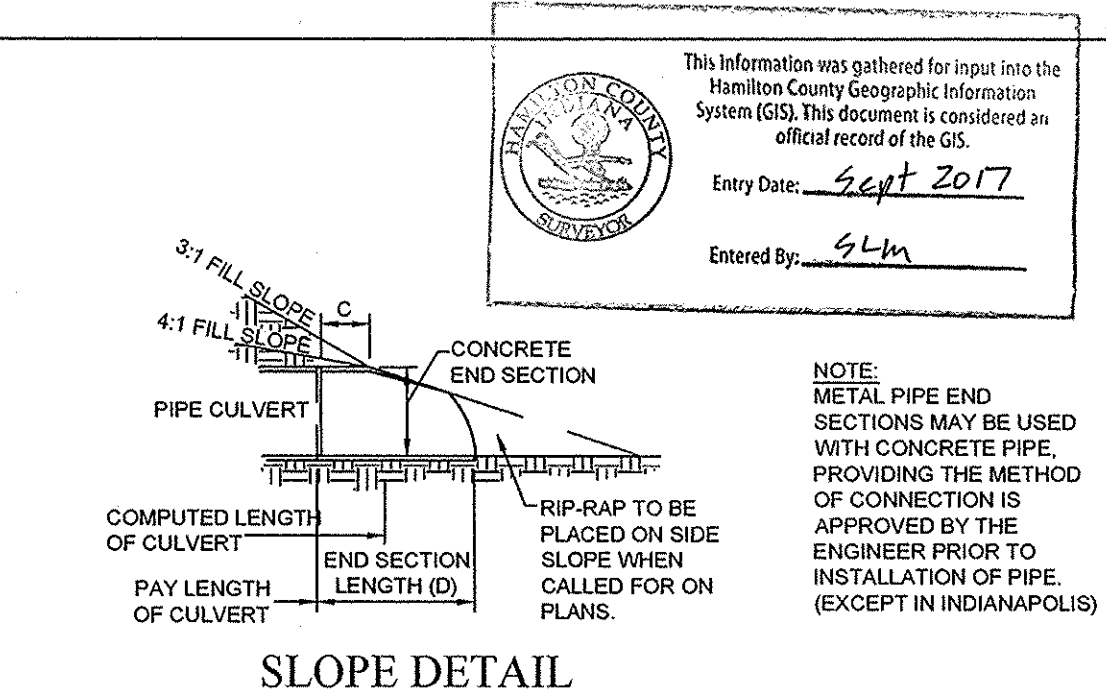
10505 N. College Avenue
 Indianapolis, Indiana 46280
 317 846-6611
 800 1452-6408
 317 843-0546 fax

ALLAN R. WEIHE, P.E., L.S. - FOUNDER



CITY OF CARMEL STANDARDS
 SUBSURFACE DRAIN
 STANDARD DRAWING 10-9

NOTES:
 PIPE SHALL CONFORM TO SPEC REQUIREMENTS OF SECTION 718 OF STANDARD SPECIFICATION
 INSTALLATION REQUIRED: BOTH SIDES OF PAVEMENT AND WHERE REQUESTED BY THE CITY ENGINEER



REQUIREMENTS FOR ALL STORM SEWER BENCHWALLS

BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH CONVEYANCE OF FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80 PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 1" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/4-INCH PER FOOT SLOPE TO THE MANHOLE WALL.

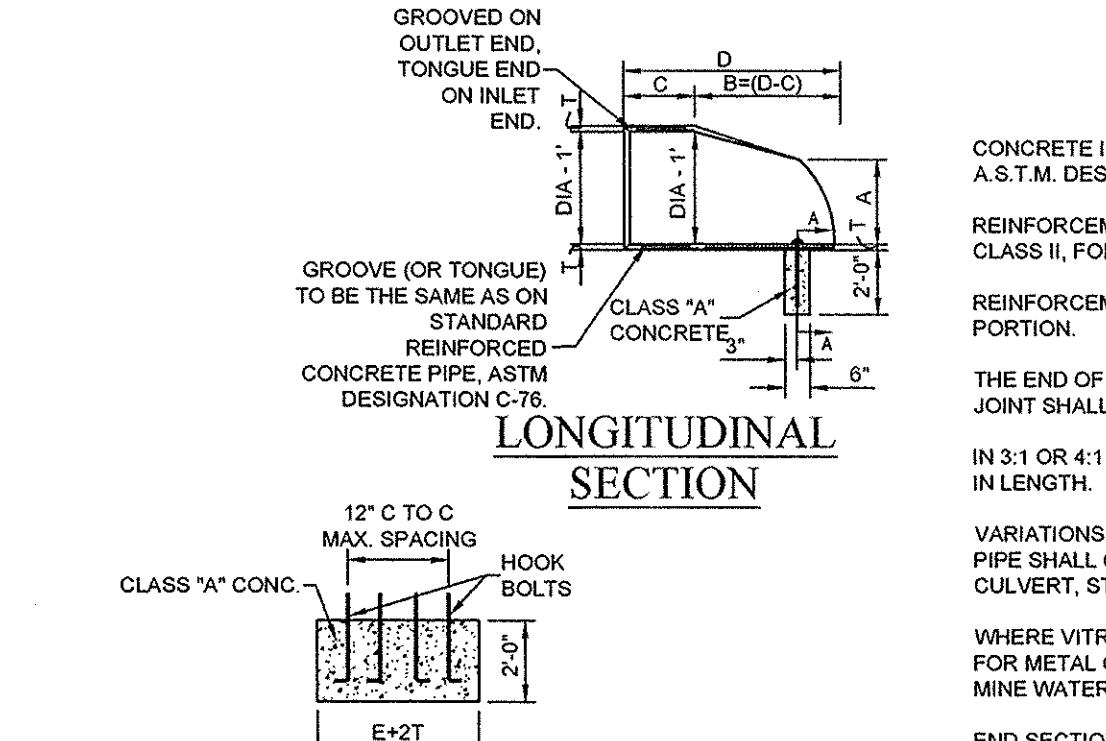
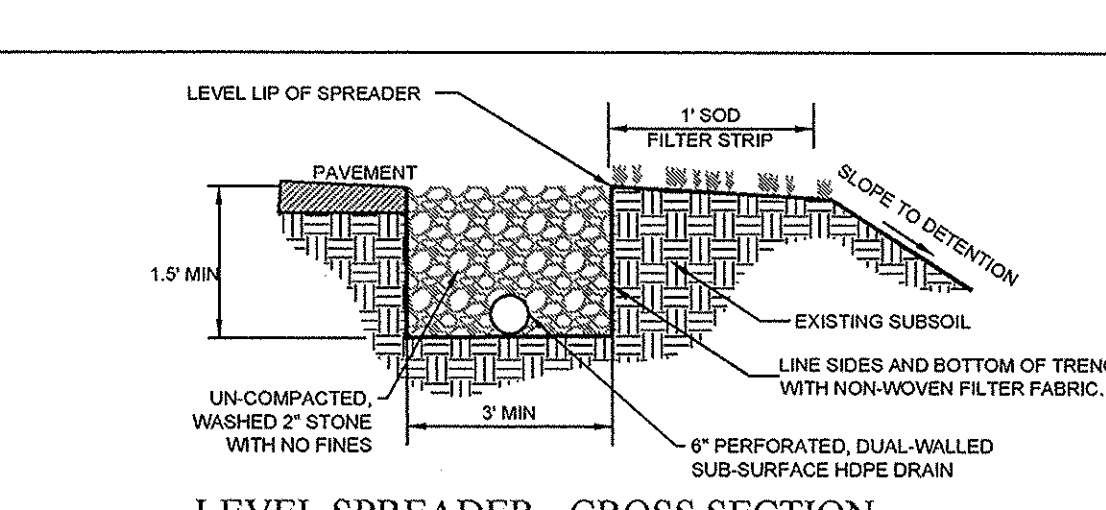
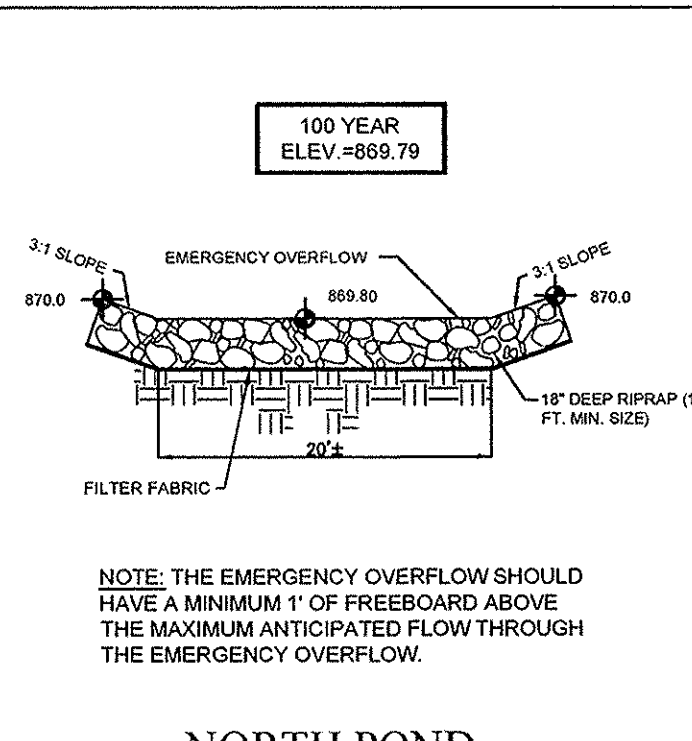
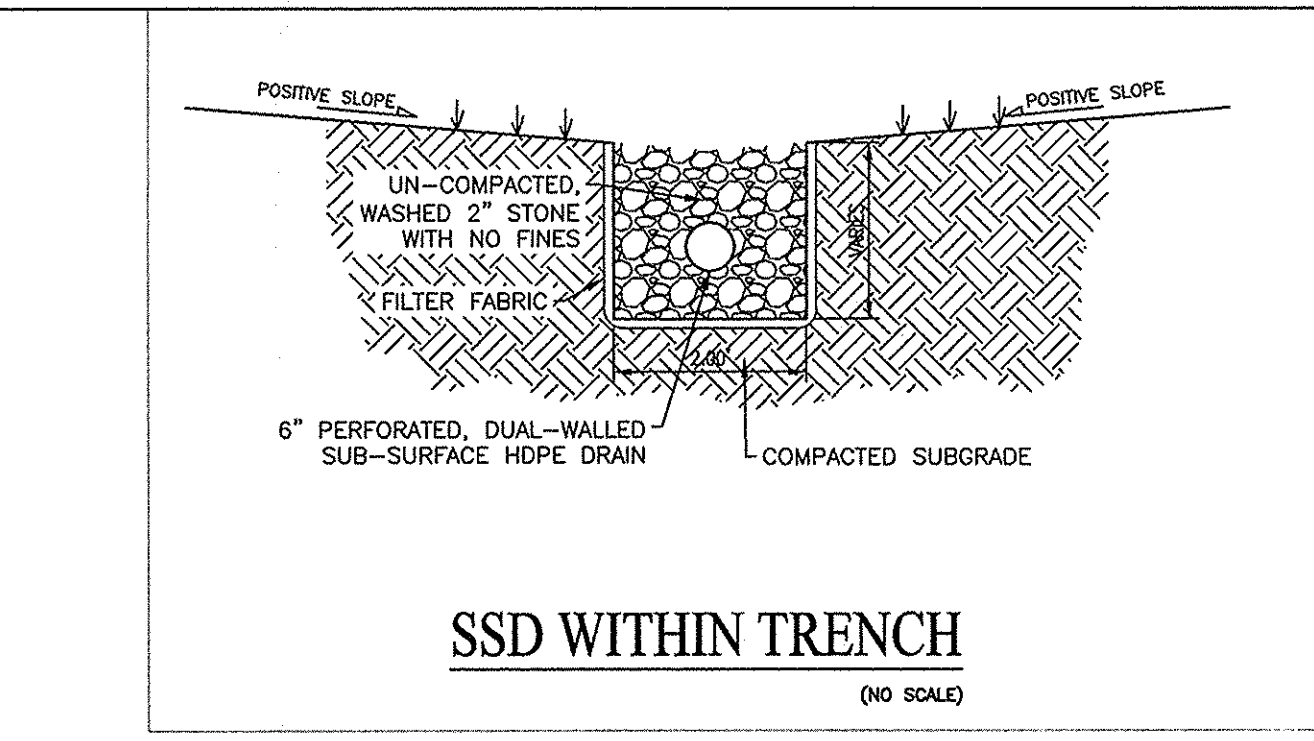
WHERE A FLOW CHANNEL IS CONSTRUCTED AS AN INTEGRAL PART OF THE PRE-CAST BASE, IT SHALL BE SHAPED AND FORMED AS DESCRIBED ABOVE, WITH THE EXCEPTION THAT THE BOTTOM OF THE FLOW CHANNEL MAY BE FORMED FROM THE BOTTOM OF INLET AND OUTLET PIPES IF THE PIPE WALL THICKNESS IS NOT GREATER THAN ONE (1) INCH.

FOR CAST-IN-PLACE FLOW CHANNELS, THE BOTTOM INVERT OF ALL PIPES ENTERING A MANHOLE SHALL BE AT LEAST THREE (3) INCHES ABOVE THE TOP OF THE BASE SLAB TO THE OUTLET INVERT SO THE FINISHED SEWER CHANNEL MAY BE INSTALLED AND SHAPED.

FOR CONNECTIONS TO EXISTING STORM SEWER STRUCTURES, FLOW CHANNELS SHALL BE SHAPED, AS SPECIFIED HEREIN, AS IF IT WERE A NEW MANHOLE OR BOX INLET STRUCTURE.

SPECIFICATIONS FOR ALL STORM SEWER CASTINGS

ALL STORM WATER INLETS AND CATCH BASINS SHALL HAVE THE WORDS "NO DUMPING, GRAINS TO STREAM", OR SIMILARLY APPROVED MESSAGE, CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM OF 1" IN HEIGHT. IN ADDITION, A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.



CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 CLASS II, (AS SET OUT IN INDOT STANDARD SPECIFICATIONS).

REINFORCEMENT IN THE "10" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 CLASS II, FOR THE SIZE OF CONNECTING PIPE.

REINFORCEMENT IN THE "8" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "10" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

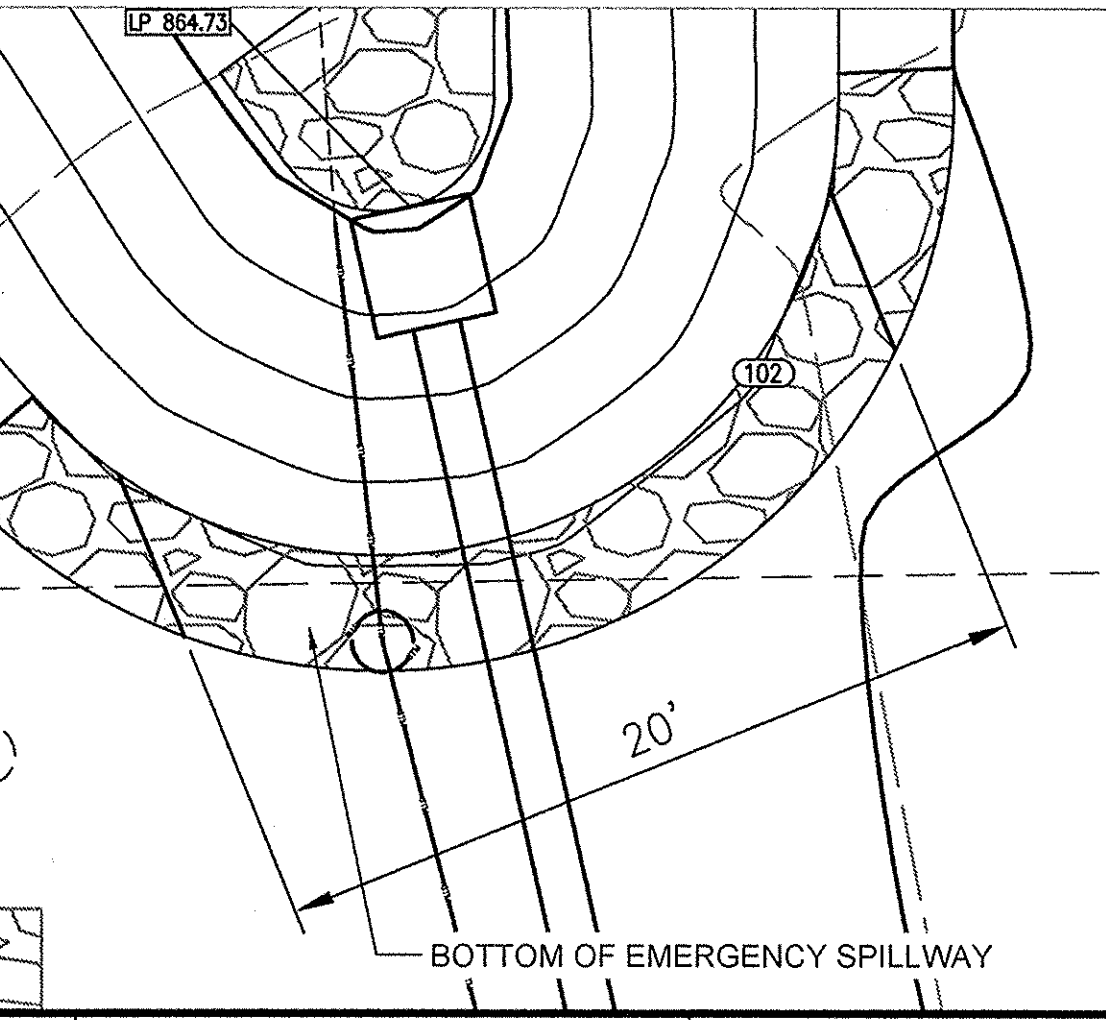
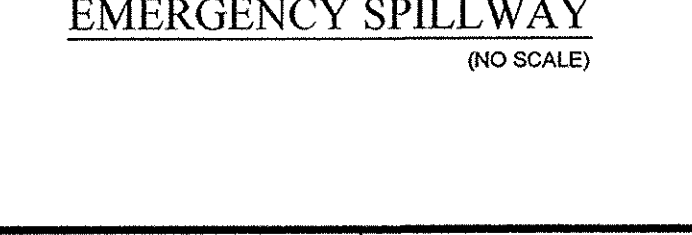
IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.

VARIATIONS IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-777

WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER, EXCEPT IN AREAS OF ACID OR MINE WATER THEN THE USE OF METAL END SECTION IS PROHIBITED.

END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "PIPE END SECTION" COMPLETE.

CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "PIPE END SECTION".



SECTION A-A CONC. PIPE TOE ANCHOR

CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "PIPE END SECTION".

DIA.	T (MIN)	A ₁	C ₁	D ₁	E ₁	K ₁	R	R ₂	APPROX. WEIGHT
12"	2"	5"	4"-3"	6"-2"	2"-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4"-0"	6"-3"	2"-0"	1.5	12 1/2"	11"	1100
18"	2 1/2"	11"	4"-1"	6"-2"	3"-0"	1.8	15 1/2"	12"	1300
21"	2 3/4"	11"	3"-6"	6"-3"	3"-6"	2.1	16 1/8"	13"	1500
24"	3"	11"	2"-8"	6"-3"	4"-0"	2.3	16 3/16"	14"	1800
27"	3 1/4"	11"	2"-5"	6"-5"	4"-6"	2.6	18 9/16"	14 1/2"	2100
30"	3 1/2"	11"	1"-0"	6"-3"	5"-0"	2.9	18 1/2"	15"	2400
33"	3 3/4"	11"	3"-6"	6"-3"	5"-6"	3.1	23 3/4"	17 1/2"	4100
36"	4"	11"	3"-1"	6"-3"	6"-0"	3.4	24 5/16"	20"	4200

TOLERANCE ± 1"

NOTE
 NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT

FLOOD STATEMENT
 THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE #18057C207G, DATED NOVEMBER 19, 2014

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.: W15.0483
 DATE: 05.19.2018

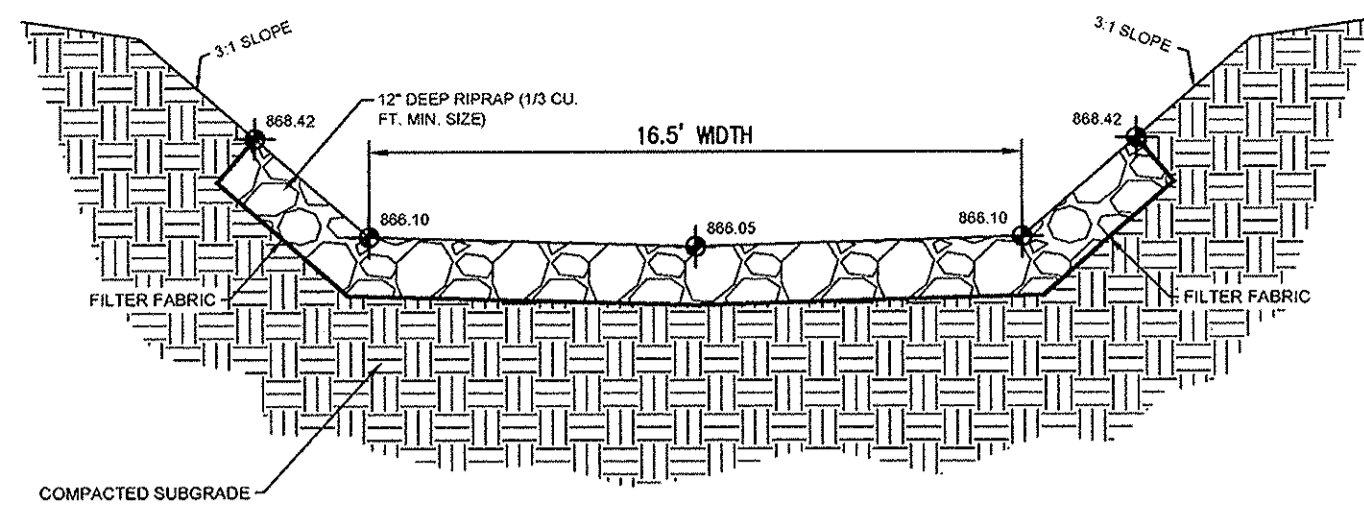
REVISIONS AND ISSUES

STEVEN SCOTT RUCKER, P.E. 1130023
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA

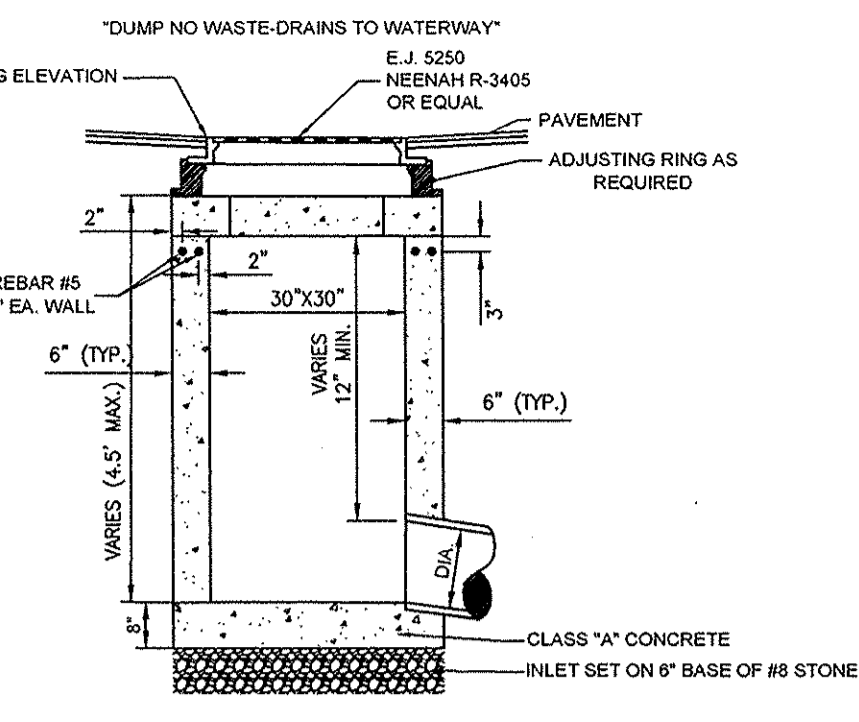
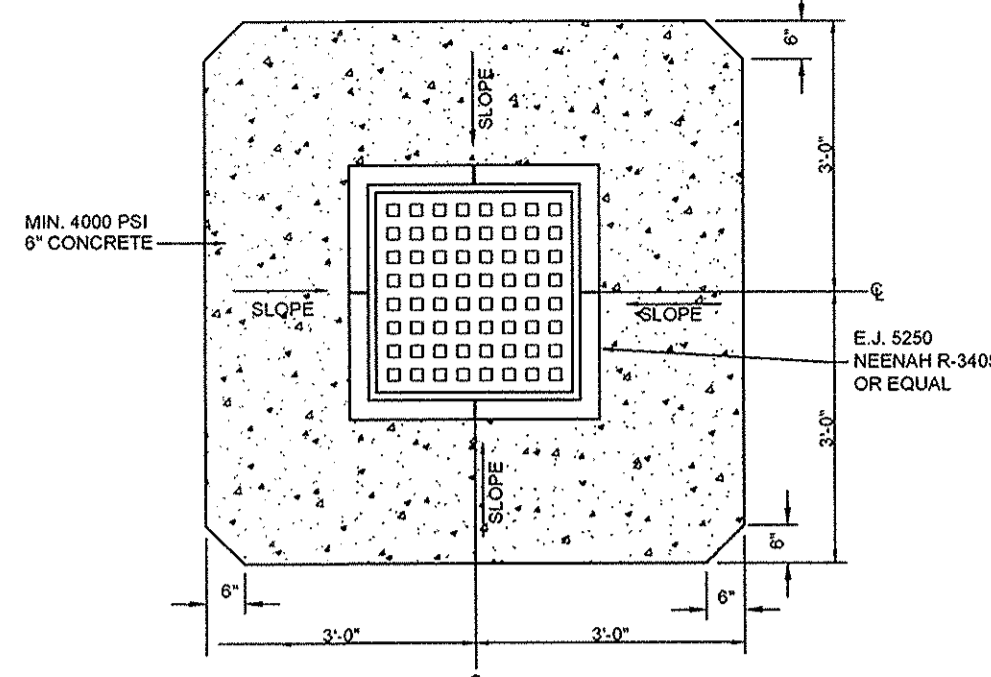
TRADER'S POINT CHURCH OF CARMEL
 1242 WEST 136TH STREET, CARMEL, IN 46022

STORM SEWER DETAILS

SHEET NO. **C301**
 PROJECT NO. W15.0483



RIP RAP PROTECTED POND SECTION
(NO SCALE)



SECTION A-A

NOTES:

- 6" CONCRETE PRECAST OR POURED IN PLACE.
- REFER TO BEDDING DETAIL AS REQUIRED.
- VAR. PIPE SIZE
21" MAX STRAIGHT CONNECTIONS
15" MAX SKEW CORNER CONNECTIONS
- MIN. 8" FLAT TOP WITH 24" SQUARE OPENING
- PIPE CONNECTION TO BE SEALED WITH NON-SHRINK GROUT.
- STRAIGHT-OUT CONNECTIONS SHOULD NOT BE MADE TO EITHER PRECAST BOX OR INLET WALL TOUCHED BY A SKEW/CORNER CONNECTION UNLESS SUFFICIENT BOX INLET WALL AREA REMAINS ON EACH SIDE OF THE CONNECTING PIPE TO ENSURE STRUCTURAL INTEGRITY OF THE PRECAST BOX.
- A MAXIMUM OF TWO (2) SKEW/CORNER CONNECTIONS WILL BE ALLOWED FOR EACH PRECAST BOX INLET.
- REFER TO PRECAST CONCRETE ADJUSTING RING DETAIL AS REQUIRED.

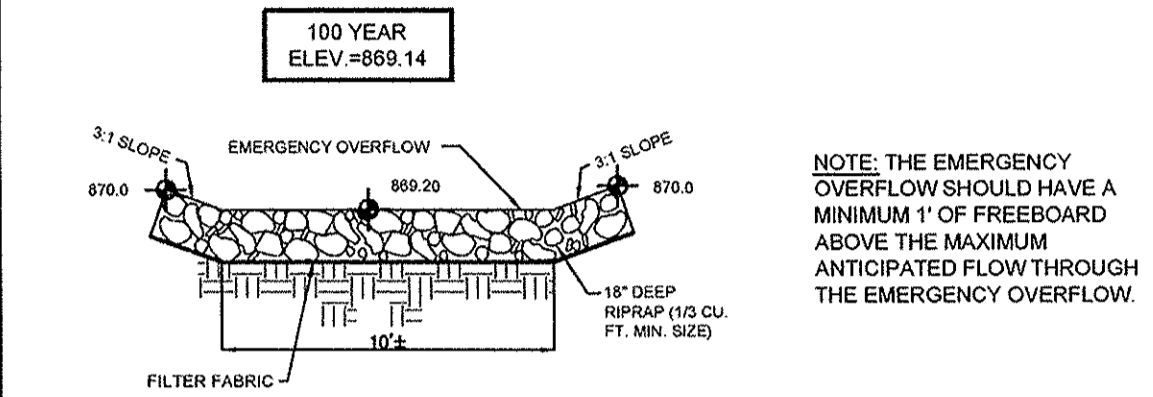
PAVED AREA INLET TYPE "E"
(NO SCALE)

NOTES:

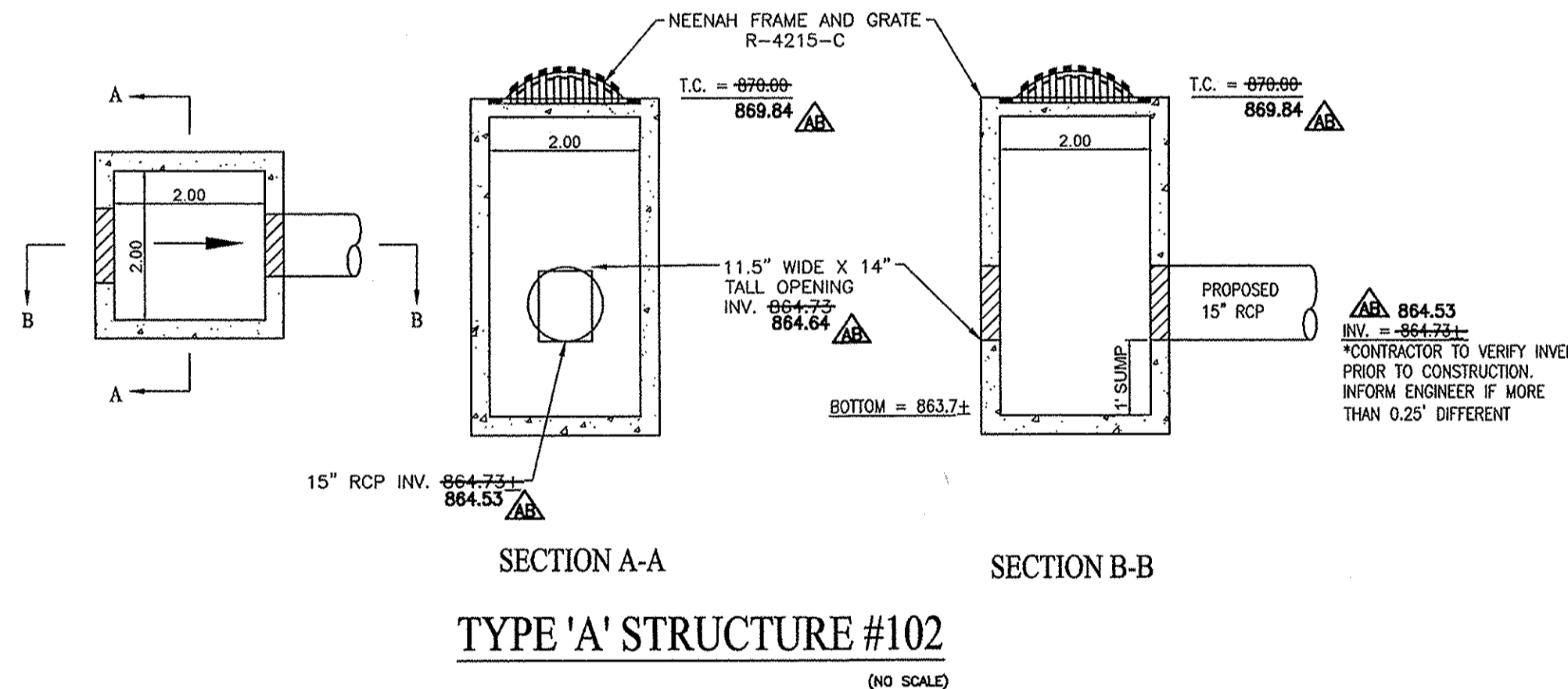
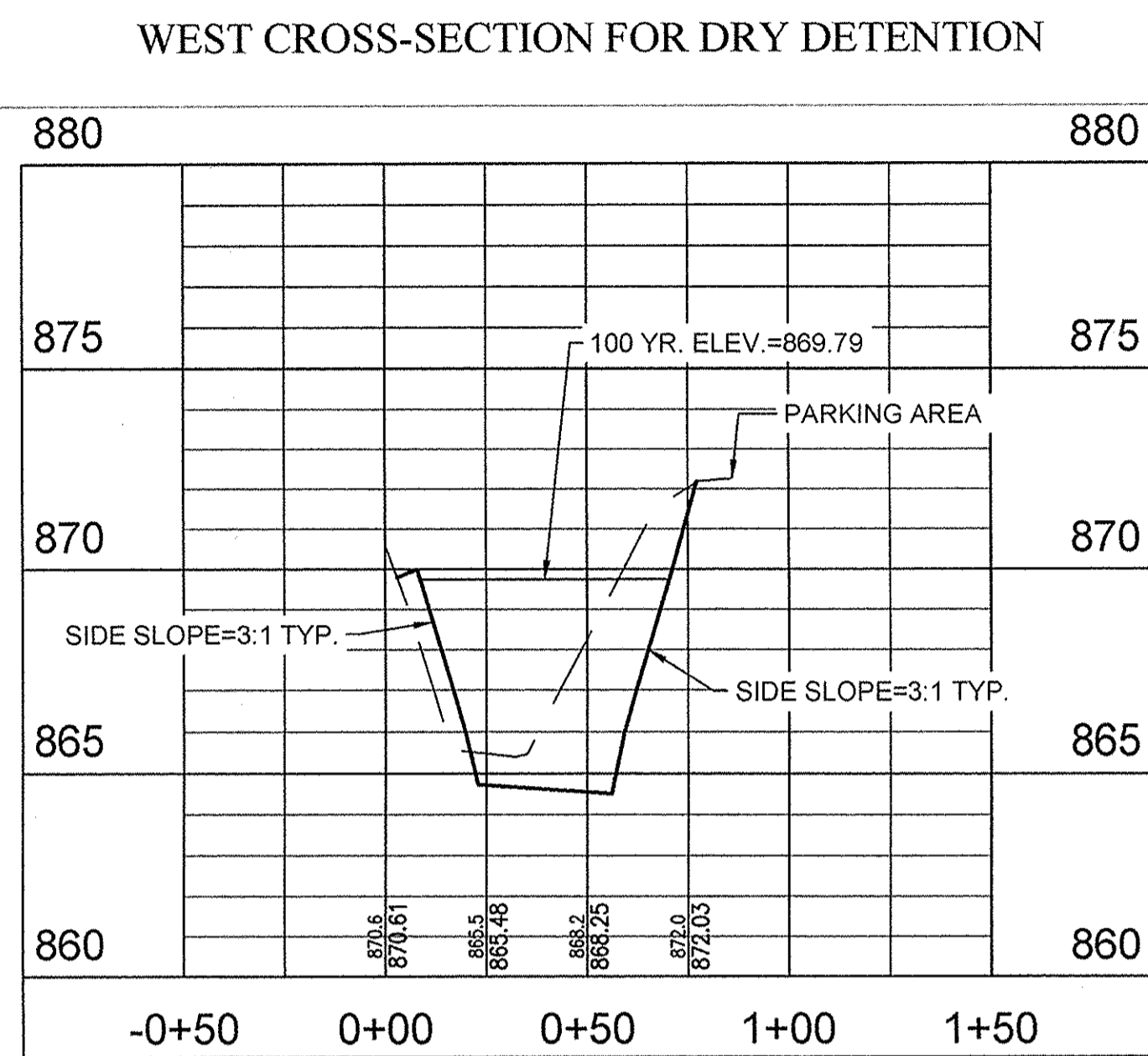
- 6" CONCRETE PRECAST OR POURED IN PLACE.
- REFER TO BEDDING DETAIL AS REQUIRED.
- VAR. PIPE SIZE
21" MAX STRAIGHT CONNECTIONS
15" MAX SKEW CORNER CONNECTIONS
- MIN. 8" FLAT TOP WITH 24" ROUND OPENING
- PIPE CONNECTION TO BE SEALED WITH NON-SHRINK GROUT.
- STRAIGHT-OUT CONNECTIONS SHOULD NOT BE MADE TO EITHER PRECAST BOX OR INLET WALL TOUCHED BY A SKEW/CORNER CONNECTION UNLESS SUFFICIENT BOX INLET WALL AREA REMAINS ON EACH SIDE OF THE CONNECTING PIPE TO ENSURE STRUCTURAL INTEGRITY OF THE PRECAST BOX.
- A MAXIMUM OF TWO (2) SKEW/CORNER CONNECTIONS WILL BE ALLOWED FOR EACH PRECAST BOX INLET.
- REFER TO PRECAST CONCRETE ADJUSTING RING DETAIL AS REQUIRED.

BEEHIVE INLET TYPE "E"
(NO SCALE)

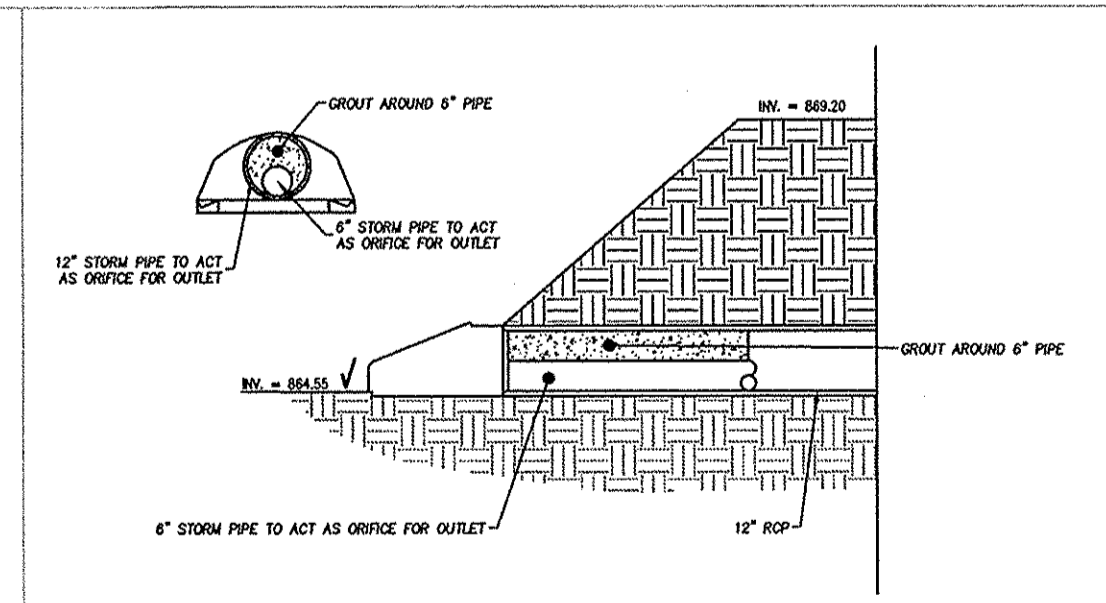
**MECHANICAL WATER QUALITY UNIT DETAIL
OFFLINE AQUA SWIRL AS-4**



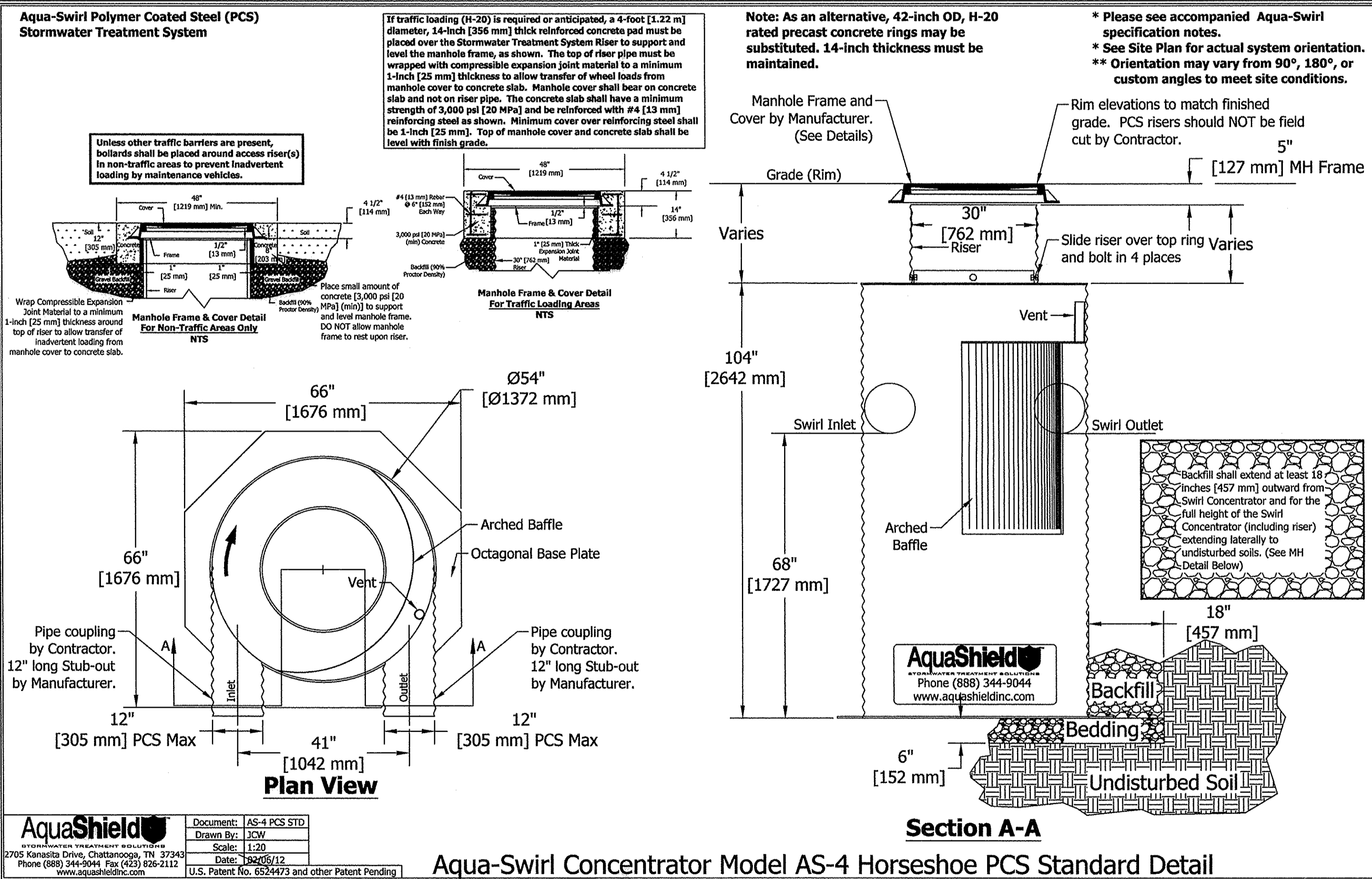
EAST POND EMERGENCY SPILLWAY
(NO SCALE)



TYPE 'A' STRUCTURE #102
(NO SCALE)



STRUCTURE #103 OUTLET CONTROL
(NO SCALE)

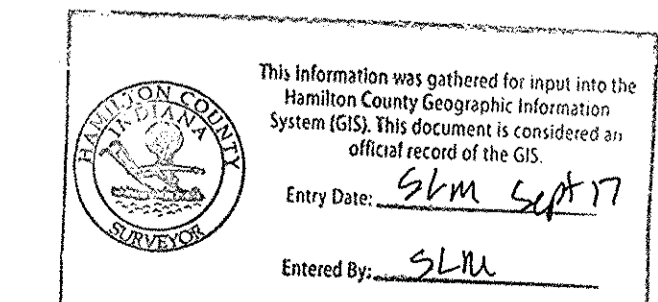


Section A-A
Aqua-Swirl Concentrator Model AS-4 Horseshoe PCS Standard Detail

RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
6-12-2017
JE T
JOSEPH TRTAN, LS21500003



AS-BUILT INFORMATION
BUILT AS PLANNED



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 NOTICING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

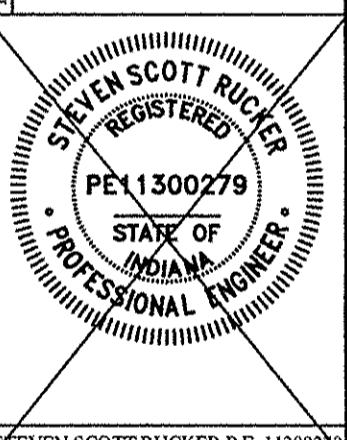
NOTE
NO EARTH DISTURBING
ACTIVITY MAY TAKE
PLACE WITHOUT AN
APPROVED STORM
WATER MANAGEMENT
PERMIT

FLOOD STATEMENT
THE SITE DOES NOT LIE IN A SPECIAL FLOOD
HAZARD AREA AS ESTABLISHED BY THE FEDERAL
EMERGENCY MANAGEMENT AGENCY - NATIONAL
FLOOD INSURANCE PROGRAM, WHEN PLOTTED
BY SCALE ON FLOOD INSURANCE RATE
#18057C207G, DATED NOVEMBER 19, 2014

10505 N. College Avenue
Indianapolis, Indiana 46280
wellei.net
317 | 846 - 6611
800 | 452 - 6408
317 | 843 - 0346 fax
ALLAN H. WEIHE, P.E., L.S. - FOUNDER

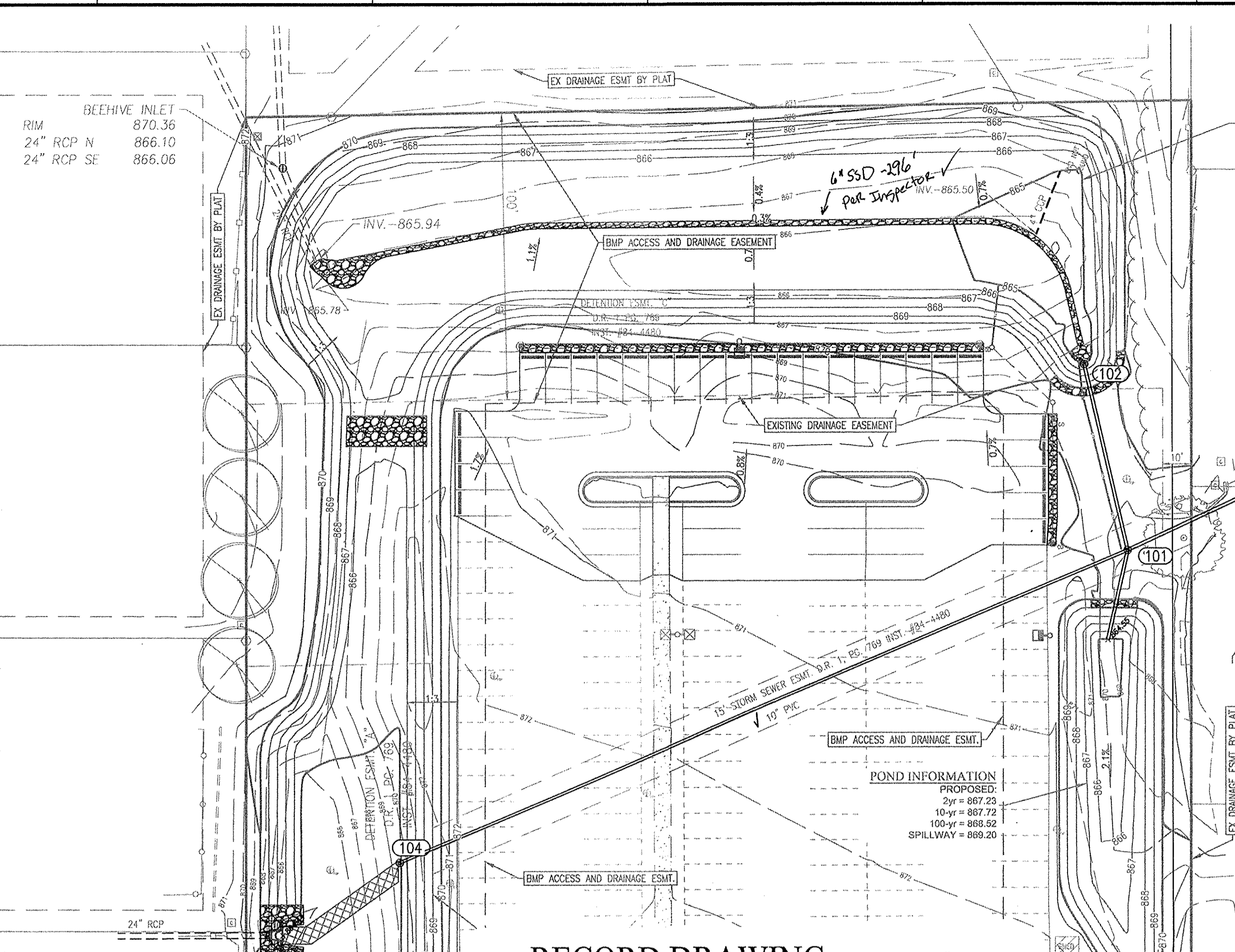
WEIHE ENGINEERS
Land Surveying | Civil Engineering
Landscape Architecture

PROJECT NO.:	W15.0483
DWG. NAME:	Storm Sewer Details
DESIGNED BY:	RLW
DRAWN BY:	RLW
CHECKED BY:	CSR
DATE:	05.19.2018



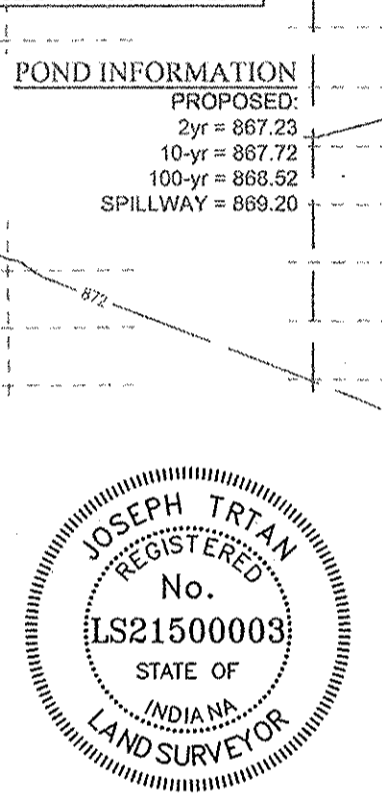
PREPARED FOR:
TRADER'S POINT CHURCH OF CARMEL
1242 WEST 136TH STREET, CARMEL, IN 46032
STORM SEWER DETAILS
Part of the SET of Section 23, Township 18 North, Range 3 East, City Township, Hamilton County, Indiana

SHEET NO.
C302
PROJECT NO.
W15.0483



POND INFORMATION

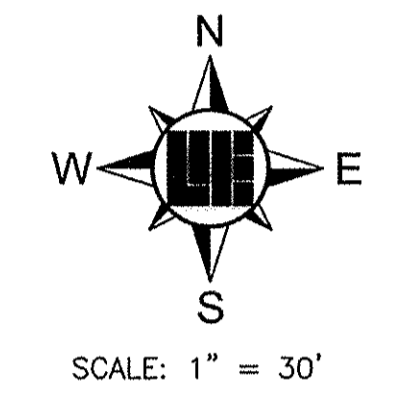
EXISTING	PROPOSED
2yr = 869.31	2yr = 867.78
10-yr = 869.82	10-yr = 868.47
100-yr = 870.31	100-yr = 869.79
SPILLWAY = NONE	SPILLWAY = 869.80



RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 8-22-2017
 JOSEPH TRTAN, LS21500003

STORM SEWER PLAN AND PROFILE LEGEND

- UTILITIES**
- CISTERN
 - DRINKING FOUNTAIN
 - FIRE DEPT HOOKUP
 - FIRE HYDRANT
 - POST INDICATOR VALVE
 - CHILLED WATER MANHOLE
 - WATER MANHOLE
 - SPRINKLER CONTROL BOX
 - SPRINKLER CONTROL VALVE
 - SPRINKLER
 - SPOUT
 - WELL HEAD
 - WATER METER
 - WATER VALVE
 - GAS METER
 - GAS VALVE
 - ELECTRIC MANHOLE
 - 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
 - ORNAMENTAL LIGHT
 - STREET LIGHT
 - PARKING LOT LIGHT (1 HEAD)
 - PARKING LOT LIGHT (2 HEAD)
 - PARKING LOT LIGHT (3 HEAD)
 - PARKING LOT LIGHT (4 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
 - SANITARY STUB MARKER
 - SEPTIC TANK
 - DISTRIBUTION BOX
- OTHER**
- FLAG POLE
 - SIGN
 - POST
 - GATE POST
 - BOLLARD
 - PARKING METER
 - PARKING WHEEL STOP
 - HANDICAPPED SPACE
 - STORM
 - STR
 - CO
 - FLOW DIRECTION AND SLOPE



ABBREVIATIONS

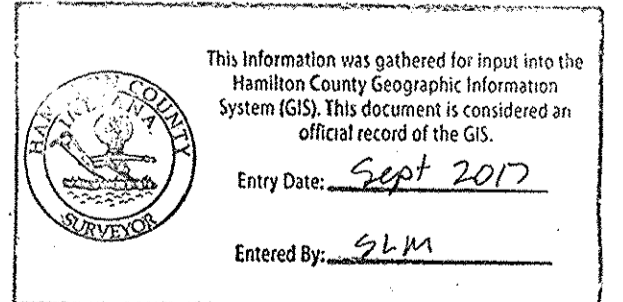
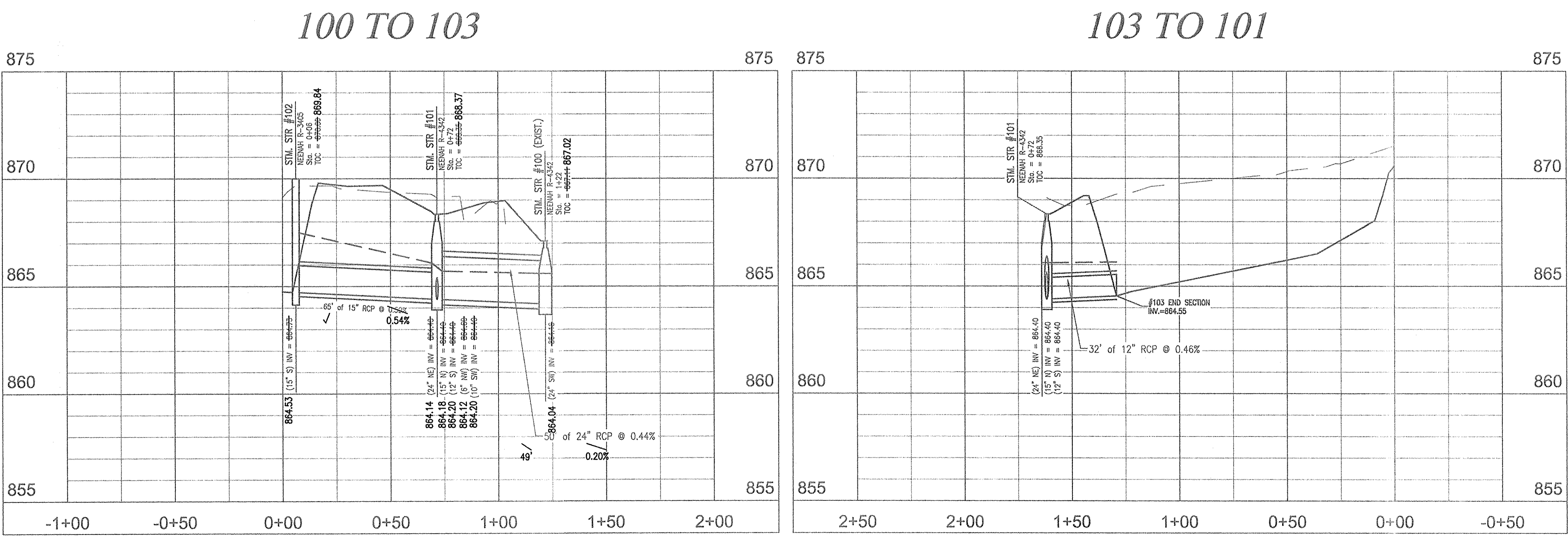
ROW	RIGHT OF WAY
ESMT	EASEMENT
D.U.E.	DRAINAGE AND UTILITY EASEMENT
FFE	FINISH FLOOR ELEVATION
TOC	TOP OF CASTING
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCP	VITRIFIED CLAY PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
DIP	DUCTILE IRON PIPE
SD	SUB SURFACE DRAIN PIPE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

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 CONTRACTOR'S 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 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 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 RINGS 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 COMPATIBLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 85% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

LINE TYPES

---	RIGHT OF WAY LINE
-X-X-	FENCE
-X-X-X-	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
---	ROOF DRAIN
---	SUB SURFACE DRAIN
---	STORM SEWER MAIN



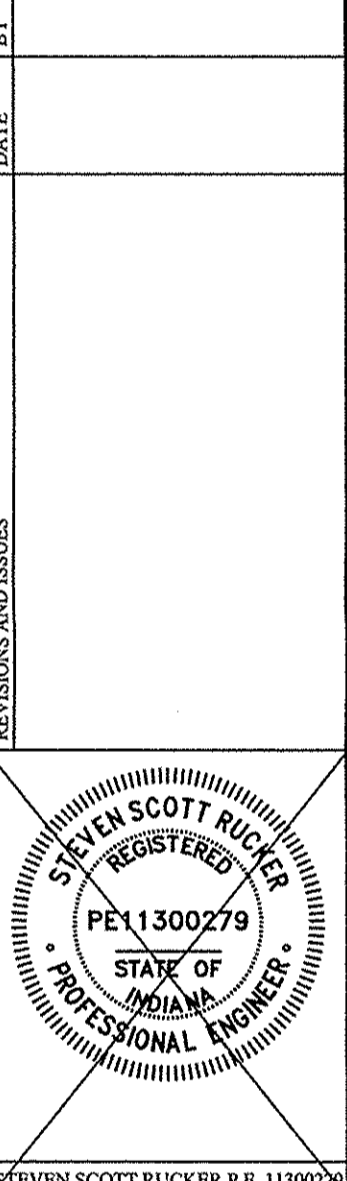
NOTE
 NO EARTH DISTURBING ACTIVITY MAY TAKE PLACE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT

FLOOD STATEMENT
 THE SITE DOES NOT LIE IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE PROGRAM, WHEN PLOTTED BY SCALE ON FLOOD INSURANCE RATE #180572076, DATED NOVEMBER 19, 2014

10505 N. College Avenue
 Indianapolis, Indiana 46280
 weithe.net
 317 | 846 - 6611
 800 | 452 - 6408
 317 | 843 - 0346 fax
 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.:	W15.0483
DRAWN BY:	W15.0483
DESIGNED BY:	W15.0483
DRAWN BY:	W15.0483
CHECKED BY:	W15.0483
DATE:	05.19.2016



TRADER'S POINT CHURCH OF CARMEL
 1242 WEST 136TH STREET, CARMEL, IN 46032
STORM SEWER PLAN AND PROFILE
 Part of the S&P of Section 23, Township 18 North, Range 3 East, Clay Township, Hamilton County, Indiana

SHEET NO.
C601
 PROJECT NO.
 W15.0483