

- | | | | |
|--|----------------------|--|---------------|
| | Interstate Highway | | Parcel Number |
| | US Highway | | Lot Number |
| | State Route | | Schools |
| | Local Roads | | Parks |
| | Parcel Boundary | | Cemetery |
| | Corporation Boundary | | Shopping |
| | Topography | | Buildings |
| | | | Hydrography |

1 inch = 40 feet

DISCLAIMER:

The data and maps provided herein may not be construed as a legal document or legal representation. Any person or entity who relies on this data does so solely at their own risk. The data provided was prepared by Greene County in accordance with Section 5713.09 of the Ohio Revised Code. Neither Greene County, Ohio nor its employees or officers warrant the accuracy, reliability, or timeliness of any of the data provided herein. This data is provided "as is" without warranty of any kind, and assumes no legal responsibility for the information it contains.

Spatial Reference

NAD 1983 HARN StatePlane Ohio South FIPS 3402 Feet
 GCS: GCS North American 1983 HARN
 Datum: North American 1983 HARN
 Projection: Lambert Conformal Conic
 Central Meridian: -82.5000
 Latitude of Origin: 38.0000
 Longitude of Origin: 0.0000
 False Easting: 1,968,500.0000
 False Northing: 0.0000
 Central Parallel: 0.0000
 Standard Parallel 1: 38.7333
 Standard Parallel 2: 40.0333
 Scale Factor: 0.0000
 Azimuth: 0.0000
 Map Units: Foot US




Created On: 7/1/2024 3:58 PM

Dayton, Ohio



Google



HERITAGE
CHRISTIAN CHURCH

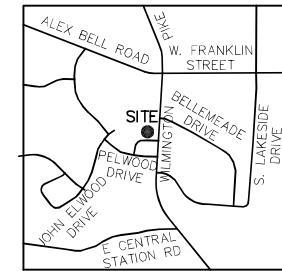
TUESDAY SCHOOL
FREE PRESCHOOL
REGISTER BY FALL 2011
CALL MISS DEANE AT 937-475-4943



**HERITAGE
CHRISTIAN CHURCH**



RECORD PLAN
HERITAGE CHRISTIAN CHURCH PLAT
 LOCATED IN SECTION 7, TOWN 2, RANGE 6 M.R.S., AND
 BEING A REPLAT OF
 LOT NUMBERS 11, 12, 13 & 14
 ARLINGTON VILLAGE SECTION ONE PLAT
 CITY OF BELLBROOK
 GREENE COUNTY, OHIO
 CONTAINING 1.7930 ACRES



VICINITY MAP
 APPROX. SCALE: 1" = 2000'

SURVEY REFERENCES:

- GREENE COUNTY:**
- **PLATS:** ARLINGTON VILLAGE SECTION ONE
 PLAT BOOK 11, PAGEA 10 & 11
 (AKA P.C.V. 33, PGS. 32A & B)
 - **SURVEYS:** SUR. VOL. 19, PG. 168
 - **DEEDS:**
 DEED NO. 2018016993
 DEED NO. 2024000792
 - **MONTGOMERY COUNTY:**
 - **PLATS:** PELBROOK FARM SECTION FIVE
 PLAT BOOK 104, PAGE 48
 - **SURVEYS:** SUR. VOL. 2007, PG. 0369
 - **DEEDS:**
 I.R. DEED NO. 23-064527

CERTIFICATION:

I hereby certify that this plat was prepared in accordance with Ohio Administrative Code Chapter 4733.37 Standards for Surveys and also conforms to the Ohio Revised Code Chapter 711 for Record Plans and was conducted under my supervision based on field work in December, 2024. All measurements are correct and monuments are to be set on all lot corners as shown.

Thomas E. Dusa, P.S.
 OHIO LICENSE NO. S-7143

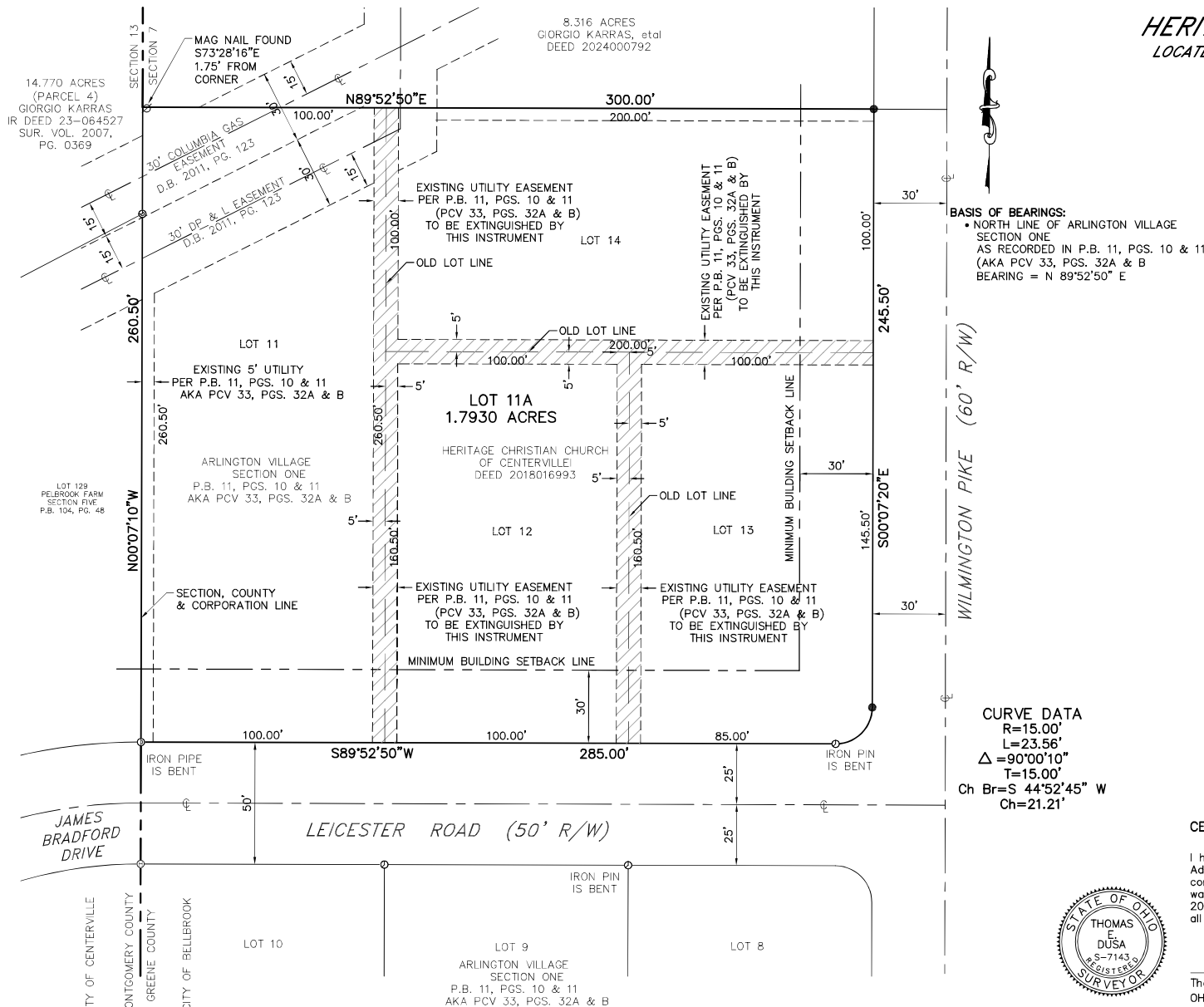


SHEET 1 OF 2



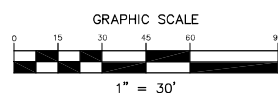
Haley-Dusa
 Engineering & Surveying Group, LLC
 270 Regency Ridge Drive, Suite 203
 Dayton, Ohio 45459
 Phone: (937) 439-4300 Fax: (937) 439-2005
 Email: haleydusa@haleydusa.com
 Website: www.haleydusa.com

Scale: 1" = 30'	Drawn: JRC	Checked: TED
Date: MARCH 25, 2025	Job No. E3447	



SYMBOL LEGEND

- ⊙ - 1/2" IRON PIPE FOUND
- ⊙ - 3/4" IRON PIPE FOUND
- ⊙ - 5/8" IRON PIN FOUND
- ⊙ - IRON PIN FOUND WITH "HALEY DUSA" ID CAP
- ⊙ - MAG NAIL FOUND
- - IRON PIN SET W/ PLASTIC ID CAP
 STAMPED "HALEY DUSA 7143"

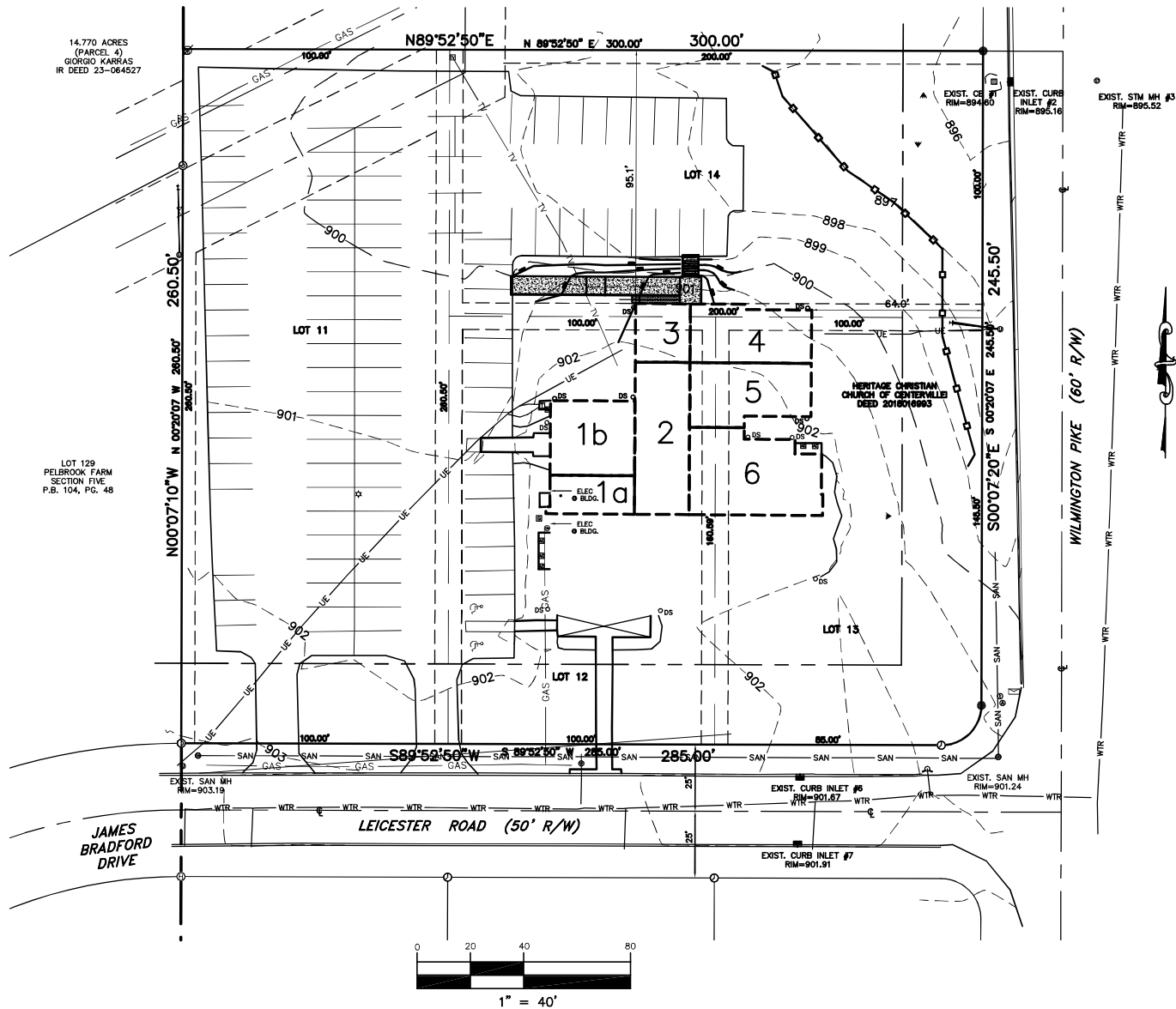


AREAS OF EXISTING UTILITY EASEMENTS
 AS RECORDED IN P.B. 11, PG. 10 & 11
 (PCV 33, PGS 32A & B) TO BE
 EXTINGUISHED BY THIS INSTRUMENT

LEGAL DESCRIPTION

SITUATE IN SECTION 7, TOWN 2, RANGE 6 M.R.S., CITY OF BELLBROOK, COUNTY OF GREENE, STATE OF OHIO AND BEING A REPLAT OF ALL OF LOTS 11, 12, 13 AND 14 OF THE ARLINGTON VILLAGE SECTION ONE PLAT AS RECORDED IN P.B. 11, PGS. 10 & 11 (NOW KNOWN AS P.C.V. 33, PGS. 32A & 32B), ALL AS CONVEYED TO THE HERITAGE CHRISTIAN CHURCH OF CENTERVILLE BY DEED AS RECORDED IN DEED 201806993.

CONTAINING 1.7930 ACRES, SUBJECT TO ALL LEGAL HIGHWAYS, EASEMENTS AND RESTRICTIONS OF RECORD.



BUILDING DRAINAGE AREAS"

- 1a (a)=462 sf =0.0106 ac
L=14' SL=67%
(C)=0.95 t_c =1 min
I-100= 9.36 in/hr
Q-100= 0.09 cfs
- 1b (a)=888 sf =0.0204 ac
L=28' SL=25%
(C)=0.95 t_c =2 min
I-100= 8.78 in/hr
Q-100= 0.17 cfs
- 2 (a)=1170 sf =0.269 ac
L=48' SL=67%
(C)=0.95 t_c =2 min
I-100= 8.78 in/hr
Q-100= 0.23 cfs
- 3 (a)=451 sf =0.0104 ac
L=20' SL=67%
(C)=0.95 t_c =1 min
I-100= 8.78 in/hr
Q-100= 0.09 cfs
- 4 (a)=951 sf =0.0218 ac
L=29' SL=67%
(C)=0.95 t_c =2 min
I-100= 8.78 in/hr
Q-100= 0.19 cfs
- 5 (a)=1000 sf =0.0230 ac
L=29' SL=67%
(C)=0.95 t_c =2 min
I-100= 8.78 in/hr
Q-100= 0.20 cfs
- 6 (a)=1450 sf =0.0333 ac
L=37' SL=67%
(C)=0.95 t_c =2 min
I-100= 8.78 in/hr
Q-100= 0.28 cfs



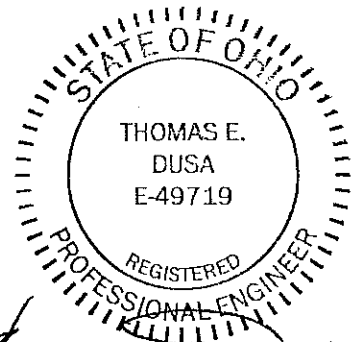
Haley-Dusa
Engineering & Surveying Group, LLC
270 Regency Ridge Drive, Suite 203
Dayton, Ohio 45459
Phone: (937) 439-4300 Fax: (937) 439-2005
Email: haleydusa@haleydusa.com
Website: www.haleydusa.com

Scale: 1" = 40'	Drawn: JRC	Checked: TED
Date: MARCH 26, 2025	Job No. E3447	

DRAINAGE ANALYSIS

Owner: Heritage Christian Church

**Location: 7171 Wilmington Pike
Bellbrook
Greene County, Ohio**



Project No.: E-3447

Thomas E. Dusa

**Project: Develop a site for a new Church Building
Addition with access ramp to parking lot**

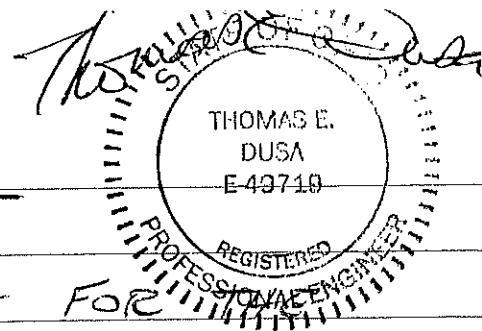
**HALEY-DUSA ENGINEERING AND
SURVEYING GROUP, LLC
270 Regency Ridge Drive, Suite 203
Dayton, Ohio 45459**

Engineer: Thomas E. Dusa P.E., P.S.

March 26, 2025

2/5

DRAINAGE ANALYSIS



THE EXISTING DRAINAGE FOR HERITAGE CHRISTIAN CHURCH AT 7171 WILMINGTON PIKE IN BELLBROOK, GREEN COUNTY, OHIO USES AN OVERLAND SURFACE SYSTEM OVER GROUND GRADED AWAY FROM THE EXISTING CHURCH BUILDING. THERE ARE NO NOTABLE DRAINAGE ISSUES.

THIS PROJECT ADDS AN ADDITION TO THE NORTH SIDE OF THE CHURCH AND A RAMP TO ALLOW THE PATRONS WALK TO AND FROM THE NEW BACK DOOR TO THE EXISTING PARKING LOT.

THE DRAINAGE FOR THE NEW ADDITION AND RAMP WAS DESIGNED TO FOLLOW THE EXISTING OVERLAND SURFACE FLOW. THE NEW ROOF SLOPES CONNECTED WITH THE EXISTING ROOF SLOPES AND DIRECTED THE ROOF DRAINAGE TO A NEW GUTTER SYSTEM AND THEN TO NEW DOWNSPOUTS. DOWNSPOUT FLOWS WERE CALCULATED ON A WORSE CASE BASIS. WE USED A ROUGHNESS COEFFICIENT OF 0.95, MINIMAL z_c (TIMES OF CONCENTRATION) OF 2 MIN AND 1 MIN, AND A 100 YEAR RAINFALL INTENSITY (I_{100}).

3/5

THIS RESULTED IN CALCULATING A 100 YEAR FLOW (Q_{100}) FOR EACH DOWNSPOUT.

THIS INFORMATION IS SHOWN ON SHEET (5).

THE DOWNSPOUTS DIRECTED ROOF DRAINAGE TO AN OPEN AIR SPLASH BLOCK NEAR THE BUILDING FOUNDATION. IT IS AT THIS POINT THE WATER GOES FROM A CLOSED SYSTEM TO AN OPEN SYSTEM; WHERE IT WILL FLOW OVERLAND AND EVENTUALLY SEEP INTO THE SOIL.

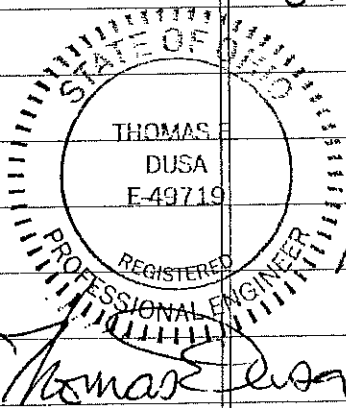
TO CALCULATE THE OVERLAND FLOW WE USED A WORSE-CASE Q_{100} AND AN ACCEPTABLE FLOW VELOCITY FOR SEED LINING ON LOOSE SOIL. WE USED A Q_{100} OF 0.30 CFS AND A FLOW VELOCITY OF 1.5 FPS.

$$Q = A \times V \Rightarrow A = \frac{Q}{V} = \frac{0.30 \text{ CFS}}{1.5 \text{ FPS}} = 0.2 \text{ ft}^2$$

IF WE ASSUME A 3 FT WIDE DRAINAGE SWATH THEN THE DEPTH EQUALS

$$\frac{0.2 \text{ ft}^2}{3 \text{ ft}} = 0.0667' \approx 0.8''$$

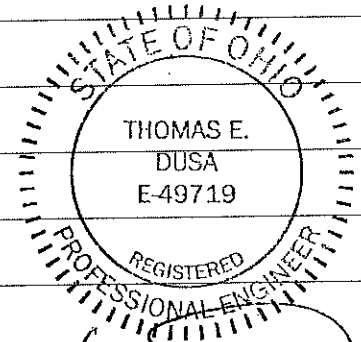
WITH THE MIN SLOPES GRADING AWAY FROM



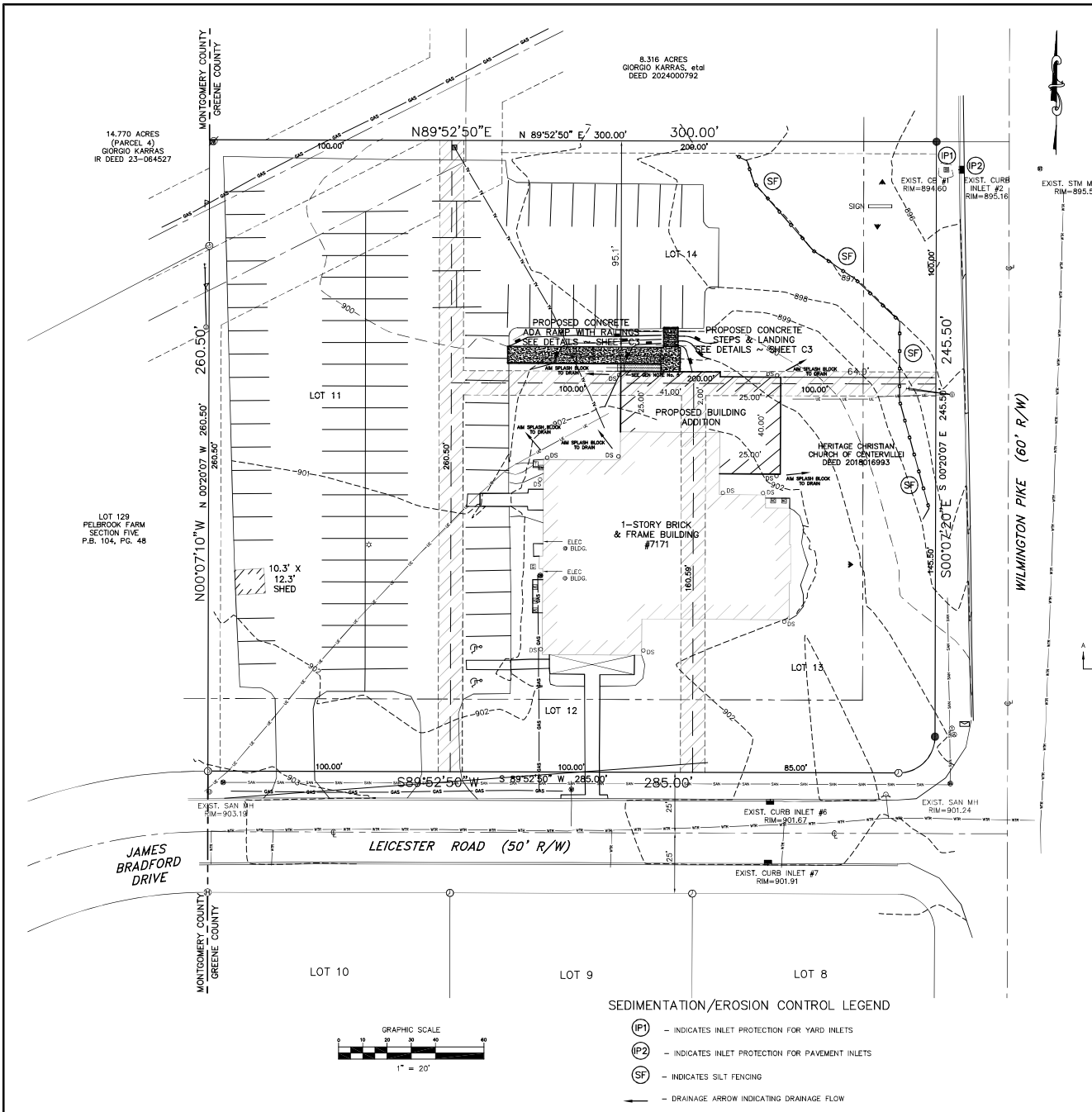
4/5

THE BUILDING @ A MINIMUM @ 4.5%
THE WATER WILL PERICULATE INTO
THE GROUND WITHIN 15 FT.

(PLEASE NOTE ALL THE VALUES
USED IN ASSESSING THIS DRAINAGE
WERE WORST-CASE SCENARIOS AND
HAVE MINIMAL CHANCES OF OCCURRING
CONSISTANTLY OVER A LONG PERIOD OF
TIME).

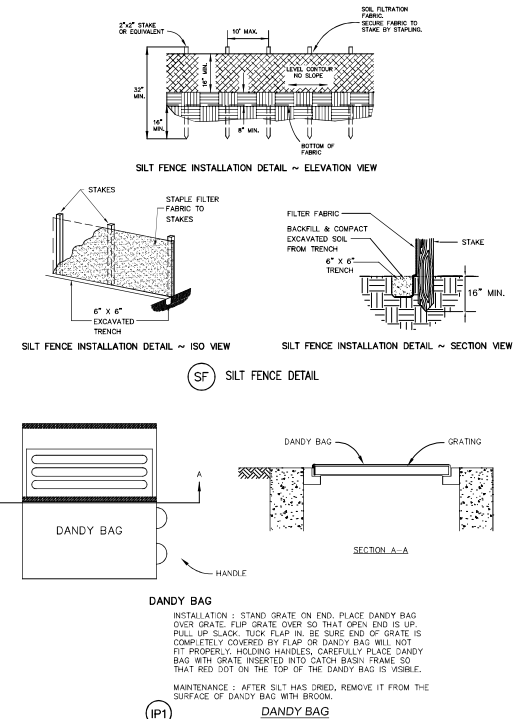


Thomas E. Dusa



- EROSION CONTROL NOTES
1. ANY TEMPORARY SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION.
 2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO "RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION", CURRENT EDITION.
 3. EROSION CONTROL DEVICES AS SHOWN ARE MINIMUM PROTECTION REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADDITIONAL DEVICES FOR PROTECTION AT THEIR EXPENSE UNTIL FINAL GROUND IS STABILIZED.

- SITE EROSION CONTROL MEASURES INSPECTION SCHEDULE
1. Diversion and Structural Measures - will be inspected at seven (7) day intervals or after every rain storm producing runoff.
 2. Vegetative Planting - Spring planting will be checked during summer or early fall.
 3. Repairs - Any erosion control measures, structural measures, or other related items in need of repair will be made within seven (7) days.
 4. Drainageways, ditches and other areas that support a designed flow of water will be mowed regularly to maintain that flow.
 5. Seeded areas where the seed has not produced a good cover will be inspected and fertilized as necessary.



PROJECT No.	DATE	REVISION
E3447	03-26-25	
DATE	03-26-25	
SCALE	1" = 20'	
DES.	TED	
DR.	JRC	
CKD.	TED	

Herley-Dusa Engineering & Surveying Group, LLC 10000 Duxbury Road, Suite 200 Duxbury, Ohio 44826 Phone (419) 452-4200 Fax (419) 452-2005	HERITAGE CHRISTIAN CHURCH BUILDING ADDITION 7171 WILMINGTON PIKE CITY OF BELLBROOK GREENE COUNTY, OHIO EROSION CONTROL PLAN
--	--

By: <i>Thomas Dusa</i> Reg. Engineer E-49719	SHEET NO. C4
---	-----------------