EXISTING AGRICULTURAL DRAIN TILE INVESTIGATION PLAN

Champaign 1 and 2 Solar

Prepared for: HBK Engineering, LLC

Section no. 34, Pesotum Twp.,Champaign Co., IL.

EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION REPORT

Champaign 1 and 2 Solar
HBK Engineering, LLC

Champaign 1 and 2 Solar / HBK Engineering, LLC , FIELD FILE NO. 18c-00-00_X1 , DATE: 7/31/23
IN ACCORDANCE W/ LOCAL COUNTY and A.I.M.A. EXISTING DRAIN TILE INVESTIGATION & LOCATION STANDARDS

DESCRIPTION CHART NO. 1A : *INVESTIGATION SLIT TRENCH LOCATIONS*

ID NO.	SZ.	TYPE / QUALITY	FLOW %	SILT %	DEPTH / GRD./IN./	FIELD NOTES:
A1	10"	CLAY / POOR	NO	50%	53"	POOR PIPE QUALITY, FAILING SYSTEM
A2	12"	PLASTIC/ GOOD	10%	CLEAN	61"	ACTIVE FLOW RATE AND CAPACITY
A3	8"	CLAY / POOR	NO	100%	49"	SILT RESTRICTED / NO CAPACITY
A4	12"	PLASTIC/ GOOD	10%	CLEAN	61"	ACTIVE FLOW RATE AND CAPACITY
A5	9"	CLAY / GOOD	20%	10%	50"	ACTIVE FLOW RATE AND CAPACITY
B1	9"	PLASTIC/ GOOD	10%	CLEAN	62"	ACTIVE FLOW RATE AND CAPACITY
C1	6"	CLAY / GOOD	NO	20%	44"	ACTIVE FLOW RATE AND CAPACITY
C2	6"	PLASTIC/ GOOD	TRACE	CLEAN	63"	ACTIVE FLOW RATE AND CAPACITY
C3	12"	PLASTIC/ GOOD	5%	CLEAN	67"	ACTIVE FLOW RATE AND CAPACITY
D1	9"	PLASTIC/ GOOD	5%	CLEAN	62"	ACTIVE FLOW RATE AND CAPACITY
E1	4"	CLAY / GOOD	NO	10%	31"	ACTIVE FLOW RATE AND CAPACITY
F	—	—	—	—	—	NO DRAIN TILE LOCATED
G1	10"	CLAY / POOR	15%	CLEAN	53"	ACTIVE FLOW RATE AND CAPACITY
H1	6"	N-12 / GOOD	NO	CLEAN	47"	ACTIVE FLOW RATE AND CAPACITY
I	—	—	—	—	—	NO DRAIN TILE LOCATED
J	—	—	—	—	—	NO DRAIN TILE LOCATED
K	—	—	—	—	—	NO DRAIN TILE LOCATED
L	—	—	—	—	—	NO DRAIN TILE LOCATED
M1	8"	CLAY / GOOD	10%	10%	48"	ACTIVE FLOW RATE AND CAPACITY
N1	4"	CLAY / GOOD	NO	15%	47"	ACTIVE FLOW RATE AND CAPACITY
O1	4"	CLAY / GOOD	NO	TRACE	33"	ACTIVE FLOW RATE AND CAPACITY

DESCRIPTION CHART NO. 1B : *SURVEY DATA POINT LOCATIONS*

DATA POINT	SZ.	TYPE / QUALITY	FLOW %	SILT %	DEPTH / HUB/./IN/	FIELD NOTES:
1	6"	CLAY / GOOD	NO	20%	41"	LATERAL AT PROPERTY INGRESS
2	12"	PLASTIC/ GOOD	10%	CLEAN	66"	MAINLINE AT PROPERTY INGRESS
3	8"	CLAY / GOOD	NO	50%	59"	MAINLINE AT PROPERTY INGRESS
4	8"	CLAY / GOOD	10%	10%	46"	MAINLINE AT PROPERTY INGRESS
5	4"	CLAY / GOOD	NO	15%	47"	LATERAL AT PROPERTY INGRESS
6	4"	CLAY / GOOD	NO	15%	29"	LATERAL AT PROPERTY EGRESS
7	10"	CLAY / POOR	15%	CLEAN	51"	MAINLINE AT PROPERTY EGRESS
8	9"	CLAY / GOOD	20%	CLEAN	50"	MAINLINE AT PROPERTY EGRESS
9	12"	PLASTIC/ GOOD	10%	CLEAN	63"	MAINLINE AT PROPERTY EGRESS
10	8"	CLAY / POOR	NO	100%	51"	MAINLINE AT PROPERTY EGRESS
11	10"	CLAY / POOR	NO	50%	59"	MAINLINE AT PROPERTY EGRESS
12	10"	CLAY / POOR	NO	50%	57"	MAINLINE AT PROPERTY INGRESS
13	12"	PLASTIC/ GOOD	10%	CLEAN	64"	MAINLINE AT PROPERTY INGRESS

HUDDLESTON McBRIDE LAND DRAINAGE SERVICES ROCHELLE, ILLINOIS

SITE LOCATION
Section no. 34, Pesotum Twp.,Champaign Co., IL.

MAP LEGEND :

- EXIST. DRAIN TILE COVER MEASUREMENT, TOP OF TILE TO SURFACE
- EX. POLYETHYLENE MAINLINE OR SYSTEM PART
- EX. CLAY DRAIN TILE MAINLINE OR SYSTEM PARTS
- EX. CONCRETE DRAIN TILE MAINLINE OR SYSTEM PART
- EXISTING DRAIN TILE CONTINUES TO UPLAND WATERSHED
- EXISTING DRAIN TILE OUTLETS TO SURFACE
- EXIST. DRAIN TILE (1) INSPECTION STRUCTURE / (2) CATCH BASIN
- EXIST. DRAIN TILE (1) LOCATED END / (2) ASSUMED END
- EXISTING DRAIN TILE CONTINUES TO OFF-SITE OUTLET SYSTEM
- EXISTING DRAIN TILE FAILURE /FLOW SURCHARGE TO SURFACE
- EXISTING DRAIN TILE MAPPED BY SPECULATION AND ASSUMPTION
- EXISTING DRAIN TILE ABANDONED (NOT FUNCTIONAL)
- EXISTING DRAIN TILE "BLOWOUT" OR FAILURE
- HAND PROBE OR ELECTRONIC SCAN FOR DRAIN TILE LOCATION
- INVESTIGATION SLIT TRENCH FOR INVESTIGATION
- SPECIFIC PIT EXCAVATION FOR INVESTIGATION
- SURVEY DATA POINTS
- REPORT IDENTIFICATION NUMBER

REPORT LEGEND :

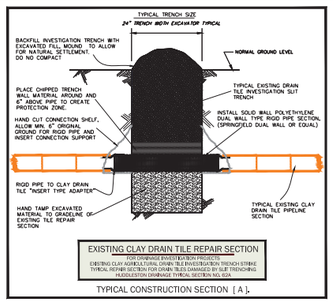
ID NO.	POINT OF EXCAVATION FOR SPECIFIC DRAIN TILE INVESTIGATION.
SZ. (SIZE)	DRAIN TILE INTERNAL DIAMETER IN INCHES.
MATERIAL / QUALITY	TYPE OF TILE MATERIALS, PIPE QUALITY - GOOD, FAIR & POOR.
FLOW %	PERCENTAGE OF TILE DIAMETER OCCUPIED BY ACTIVE FLOW.
R	RESTRICTED OR BIACKED UP FLOW, SURCHARGED CONDITION
SILT %	PERCENTAGE OF TILE DIAMETER OCCUPIED BY RESTRICTIVE SILT.
A	ABANDONED, FILLED WITH SILT BLOCKAGE, NO FLOW POTENTIAL
DEPTH	MEASUREMENT FROM EXISTING GROUND LEVEL TO PIPE INVERT.

(GENERAL NOTES)

MAINLINE TILE	TRUNK LINE OR MUTUAL DRAIN, COLLECTOR OF SUB-SYSTEMS.
SUB MAIN TILE	SECONDARY TRUNK LINE OR RANDOM SYSTEM COLLECTOR.
LATERAL TILE	FEEDER LINE, SERVICE TILE OR SYSTEM SPUR.
"BLOWOUT"	EXISTING SYSTEM PIPE FAILURE OR RESTRICTION.
DRAIN TILE ENDS	MAINLINE, SUB-MAIN OR LATERAL PLANNED TERMINATION.
SLIT TRENCH	INVESTIGATION TRENCH, TYPICAL 2'- 0" WIDE x 6'- 0" DEPTH.

SPECIAL NOTES :

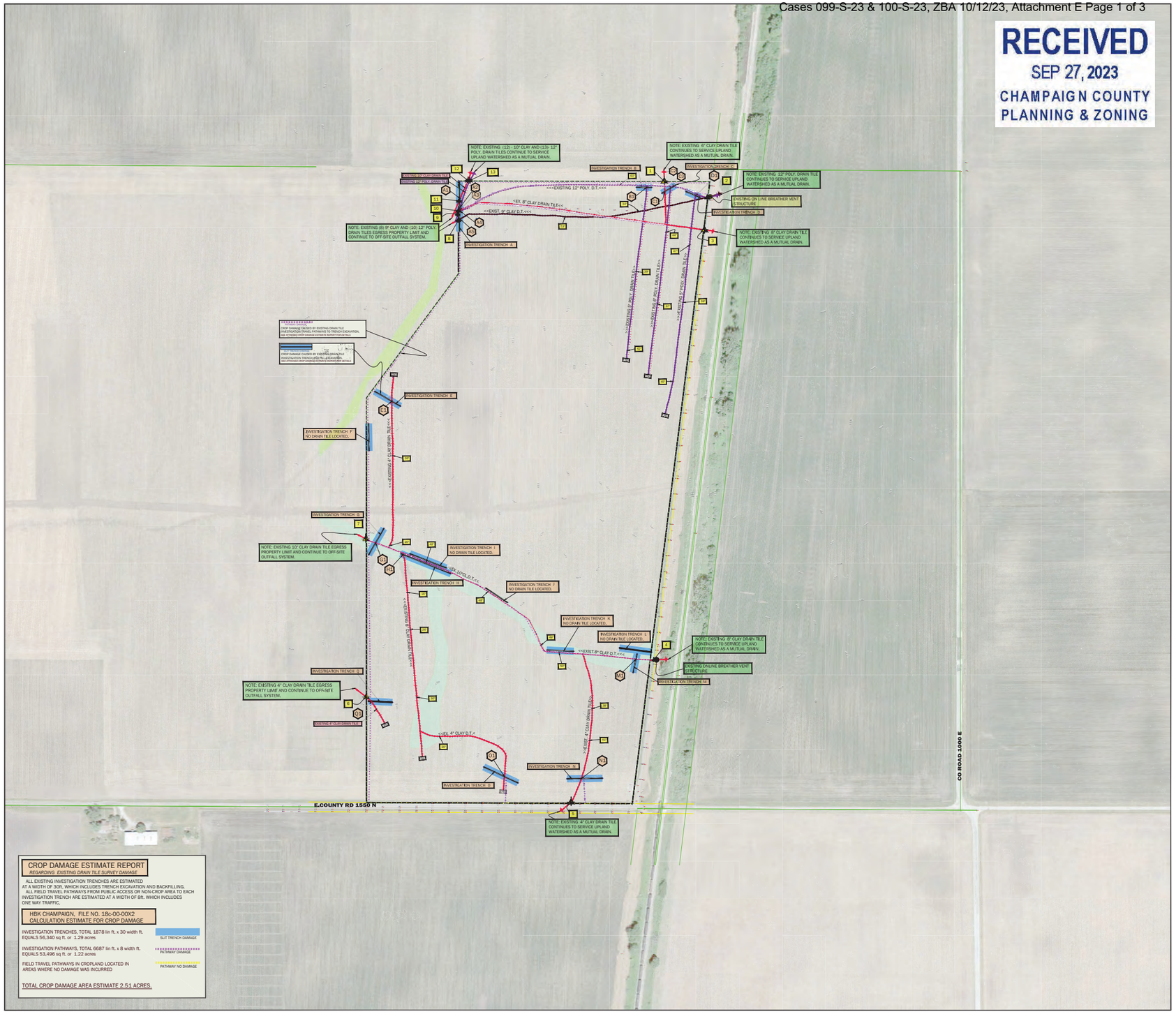
- *All existing agricultural drain tiles located during this investigation survey have been identified on this plan and field staked at < 50' intervals, in some occasions certain existing local drain tile sections may be speculated and considered as an assumed route which shall be delineated on this plan.*
- *Any existing drain tile not encountered during silt trenching or probe transect procedures will remain unknown.*
- *All existing drain tiles damaged during the investigation process shall be repaired to their original state in accordance with Natural Resource Conservation Service standards for drain tile installation and repair. All existing drain tile not encountered during silt trenching procedure will remain unknown. (Huddleston McBride (62a) typical standard "A")*
- *All existing drain tile location dimensions have been mapped in state plane coordinates by gps survey systems and include sub meter accuracy, all locations pertinent to final design shall be verified by the project surveyor.*
- *This drain tile investigation report is intended to identify existing drain tile mainline systems only with additional priority on drain tiles which may service the upland property of others or with mutual drainage status.*
- *This drain tile investigation report shall be filed with Huddleston McBride Drainage Co., and will be reproduced and disbursed only by permission of the contract principals.*
- *Solar Field Development - It is our recommendation that all existing drain tile systems within the proposed solar field development should be replaced by "like kind" construction which will assure the location and replacement of unknown drain tile systems that were not located by this Existing Drain Tile Investigation.*



EXISTING CLAY DRAIN TILE REPAIR SECTION
FOR DRAINAGE INVESTIGATION PROJECTS
EXISTING CLAY AGRICULTURAL DRAIN TILE INVESTIGATION TRENCH STRIKE
TYPICAL REPAIR SECTION FOR DRAIN TILES DAMAGED BY SLIT TRENCHING
HUDDLESTON DRAINAGE TYPICAL SECTION NO. 62A

TYPICAL CONSTRUCTION SECTION [A]

THESE SYMBOLS REPRESENT SURVEY DATA POINTS WHICH HAVE BEEN STAKED IN THE FIELD FOR THE SPECIFIC PURPOSE OF ELECTRONIC LOCATION AND ELEVATION DETERMINATION BY THE PROJECT SURVEYOR.
THESE DATA POINTS CONSIST OF A 2" X 2" GROUND HUB AND A 3'-0" ON-LINE LOCATION STAKE WHICH INCLUDES DATA POINT IDENTIFICATION NUMBER, SEPARATION MEASUREMENT FROM HUB TO PIPE INVERT, AND PIPE SIZE.
ALL EXISTING DRAIN TILE ROUTES HAVE BEEN FIELD STAKED WITH "EXISTING DRAIN TILE" PIN FLAGS AT 50' INTERVALS AND DOUBLE FLAGS AT INTERSECTIONS.



CROP DAMAGE ESTIMATE REPORT
REGARDING EXISTING DRAIN TILE SURVEY DAMAGE

ALL EXISTING INVESTIGATION TRENCHES ARE ESTIMATED AT A WIDTH OF 30ft, WHICH INCLUDES TRENCH EXCAVATION AND BACKFILLING. ALL FIELD TRAVEL PATHWAYS FROM PUBLIC ACCESS OR NON-CROP AREA TO EACH INVESTIGATION TRENCH ARE ESTIMATED AT A WIDTH OF 8ft. WHICH INCLUDES ONE WAY TRAFFIC.

HBK CHAMPAIGN, FILE NO. 18c-00-00X2
CALCULATION ESTIMATE FOR CROP DAMAGE

INVESTIGATION TRENCHES, TOTAL 1878 lin ft. x 30 width ft. EQUALS 56,340 sq ft. or 1.29 acres — SLIT TRENCH DAMAGE

INVESTIGATION PATHWAYS, TOTAL 6687 lin ft. x 8 width ft. EQUALS 53,496 sq ft. or 1.22 acres — PATHWAY DAMAGE

FIELD TRAVEL PATHWAYS IN CROPLAND LOCATED IN AREAS WHERE NO DAMAGE WAS INCURRED — PATHWAY NO DAMAGE

TOTAL CROP DAMAGE AREA ESTIMATE 2.51 ACRES.

PROJECT CLIENT: **HBK Engineering, LLC.** Thomas Bock, P.E., , Project Manager, 2101 W Carroll Ave., Chicago, IL., 60612	APPROVED BY AND DATE: TOM HUDDLESTON 7/31/23	PROJECT DATE: 7/31/23	REVISIONS	DATE:	BY: DESCRIPTION:
	ACKNOWLEDGMENTS: HUDDLESTON DRAINAGE MAP and ARCHIVE SYSTEMS	FIELD FILE NO.: 18c-00-00_X1			
	DRAWN BY AND DATE: TOM HUDDLESTON 7/31/23	DRAWING NO. 18c-00-00_X1	WEATHER CONDITIONS: SUNNY/ WARM - 75o	DRAWING SCALE: 1" TO 200'	SHEET NO. ONE OF ONE

1976 HUDDLESTON McBRIDE 47 Anniversary 2023

ILLINOIS FARM BUREAU MEMBER

811 Know what's below. Call before you dig. A23192731 811 NUMBER

NORTH

Champaign 1 and 2 Solar
HUDDLESTON McBRIDE PROFESSIONAL LAND DRAINAGE SERVICES
9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 815-562-6007

COORDINATE SYSTEM: ILLINOIS STATE PLANE EAST NAD 83

M:\1 A-ACTIVE CAMP FILE 8_1_23 C\ACTIVE PROJECT\18-00-00@HBK CAMPAIGN\18c-00-00_X1.dwg, HUDDMAC, 7/31/2023 4:42:29 PM, AutoCAD PDF (High Quality Print).pc3, Previous paper size (24.00 x 36.00 inches)


NOTE: EXISTING (12) - 10" CLAY AND (13)- 12" POLY. DRAIN TILES CONTINUE TO SERVICE UPLAND WATERSHED AS A MUTUAL DRAIN.
NOTE: EXISTING 6" CLAY DRAIN TILE CONTINUES TO SERVICE UPLAND WATERSHED AS A MUTUAL DRAIN.
INVESTIGATION TRENCH B
INVESTIGATION TRENCH C
EXISTING 10" CLAY DRAIN TILE
EXISTING 12" POLY. DRAIN TILE
<<<EXISTING 12" POLY. D.T.<<<
NOTE: EXISTING 12" POLY. DRAIN TILE CONTINUES TO SERVICE UPLAND WATERSHED AS A MUTUAL DRAIN.
<EX. 8" CLAY DRAIN TILE<<
EXISTING ON LINE BREATHER VENT STRUCTURE
<<EXIST. 9" CLAY D.T.<<<
INVESTIGATION TRENCH D
NOTE: EXISTING (8) 9" CLAY AND (10) 12" POLY. DRAIN TILES EGRESS PROPERTY LIMIT AND CONTINUE TO OFF-SITE OUTFALL SYSTEM.
INVESTIGATION TRENCH A
NOTE: EXISTING 8" CLAY DRAIN TILE CONTINUES TO SERVICE UPLAND WATERSHED AS A MUTUAL DRAIN.
>>>EXISTING 5" POLY. DRAIN TILE>>
>>>EXISTING 6" POLY. DRAIN TILE>>
>>>EXISTING 5" POLY. DRAIN TILE>>
PATHWAY DAMAGE
CROP DAMAGE CAUSED BY EXISTING DRAIN TILE INVESTIGATION TRAVEL PATHWAYS TO TRENCH EXCAVATION.
SEE ATTACHED CROP DAMAGE ESTIMATE REPORT FOR DETAILS
SLIT TRENCH DAMAGE
CROP DAMAGE CAUSED BY EXISTING DRAIN TILE INVESTIGATION TRENCH AND FILL EXCAVATION.
SEE ATTACHED CROP DAMAGE ESTIMATE REPORT FOR DETAILS
INVESTIGATION TRENCH E
INVESTIGATION TRENCH F
NO DRAIN TILE LOCATED.
<<<EXISTING 4" CLAY DRAIN TILE<<<
INVESTIGATION TRENCH G
NOTE: EXISTING 10" CLAY DRAIN TILE EGRESS PROPERTY LIMIT AND CONTINUE TO OFF-SITE OUTFALL SYSTEM.
INVESTIGATION TRENCH I
NO DRAIN TILE LOCATED.
<EX.10"CL.D.T.<<
INVESTIGATION TRENCH H
INVESTIGATION TRENCH J
NO DRAIN TILE LOCATED.
<<EXISTING 8" CLAY DRAIN TILE<<<
INVESTIGATION TRENCH K
NO DRAIN TILE LOCATED.
INVESTIGATION TRENCH L
NO DRAIN TILE LOCATED.
<<EXIST.8" CLAY D.T.<<<
NOTE: EXISTING 8" CLAY DRAIN TILE CONTINUES TO SERVICE UPLAND WATERSHED AS A MUTUAL DRAIN.
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INVESTIGATION TRENCH M
INVESTIGATION TRENCH Q
NOTE: EXISTING 4" CLAY DRAIN TILE EGRESS PROPERTY LIMIT AND CONTINUE TO OFF-SITE OUTFALL SYSTEM.
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>>EXIST. 4" CLAY DRAIN TILE>>
INVESTIGATION TRENCH O
INVESTIGATION TRENCH N
E.COUNTY RD 1550 N
NOTE: EXISTING 4" CLAY DRAIN TILE CONTINUES TO SERVICE UPLAND WATERSHED AS A MUTUAL DRAIN.

EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION REPORT

Champaign 1 and 2 Solar

HBK Engineering, LLC

Champaign 1 and 2 Solar / HBK Engineering, LLC , FIELD FILE NO. 18c-00-00_X1 , DATE: 7/31/23 .

IN ACCORDANCE W/ LOCAL COUNTY and A.I.M.A EXISTING DRAIN TILE INVESTIGATION & LOCATION STANDARDS

DESCRIPTION CHART NO. 1A : INVESTIGATION SLIT TRENCH LOCATIONS

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K	---	---	---	---	---	NO DRAIN TILE LOCATED
L	---	---	---	---	---	NO DRAIN TILE LOCATED
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DESCRIPTION CHART NO. 1B : SURVEY DATA POINT LOCATIONS

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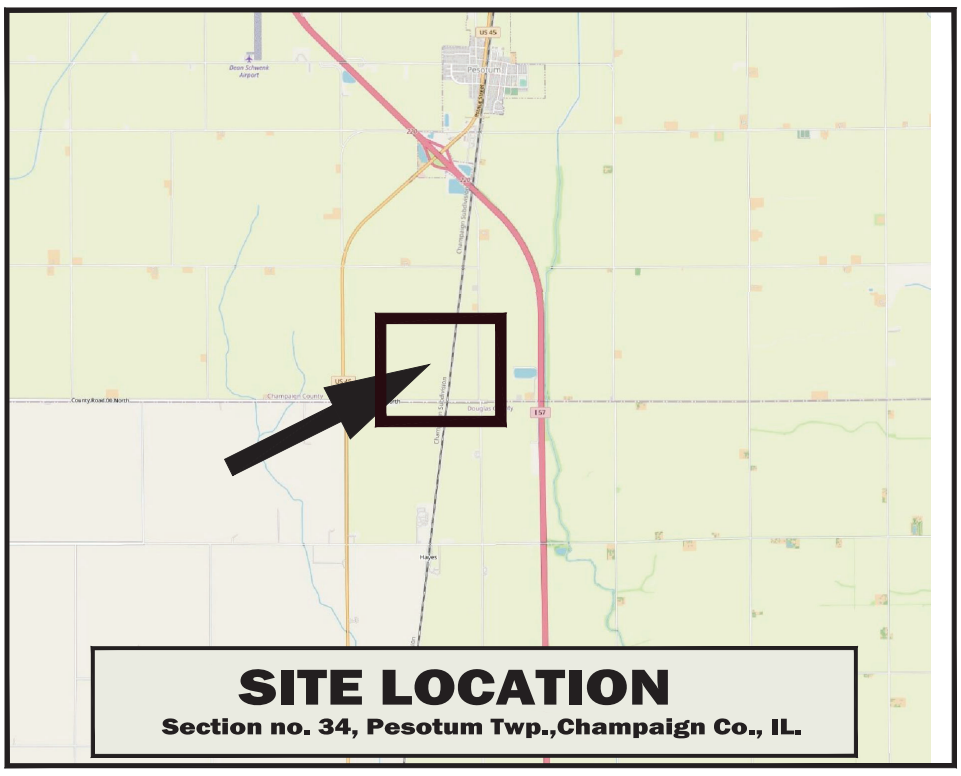

SITE LOCATION

Section no. 34, Pesotum Twp.,Champaign Co., IL.

MAP LEGEND :

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- EX. POLYETHYLENE MAINLINE OR SYSTEM PART
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- REPORT IDENTIFICATION NUMBER (M1)

REPORT LEGEND :

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