

EXISTING DRAIN TILE INVESTIGATION, MODIFICATION AND SYSTEM ABANDONMENT

SPRING CREEK NORTH RESTORATION AREA

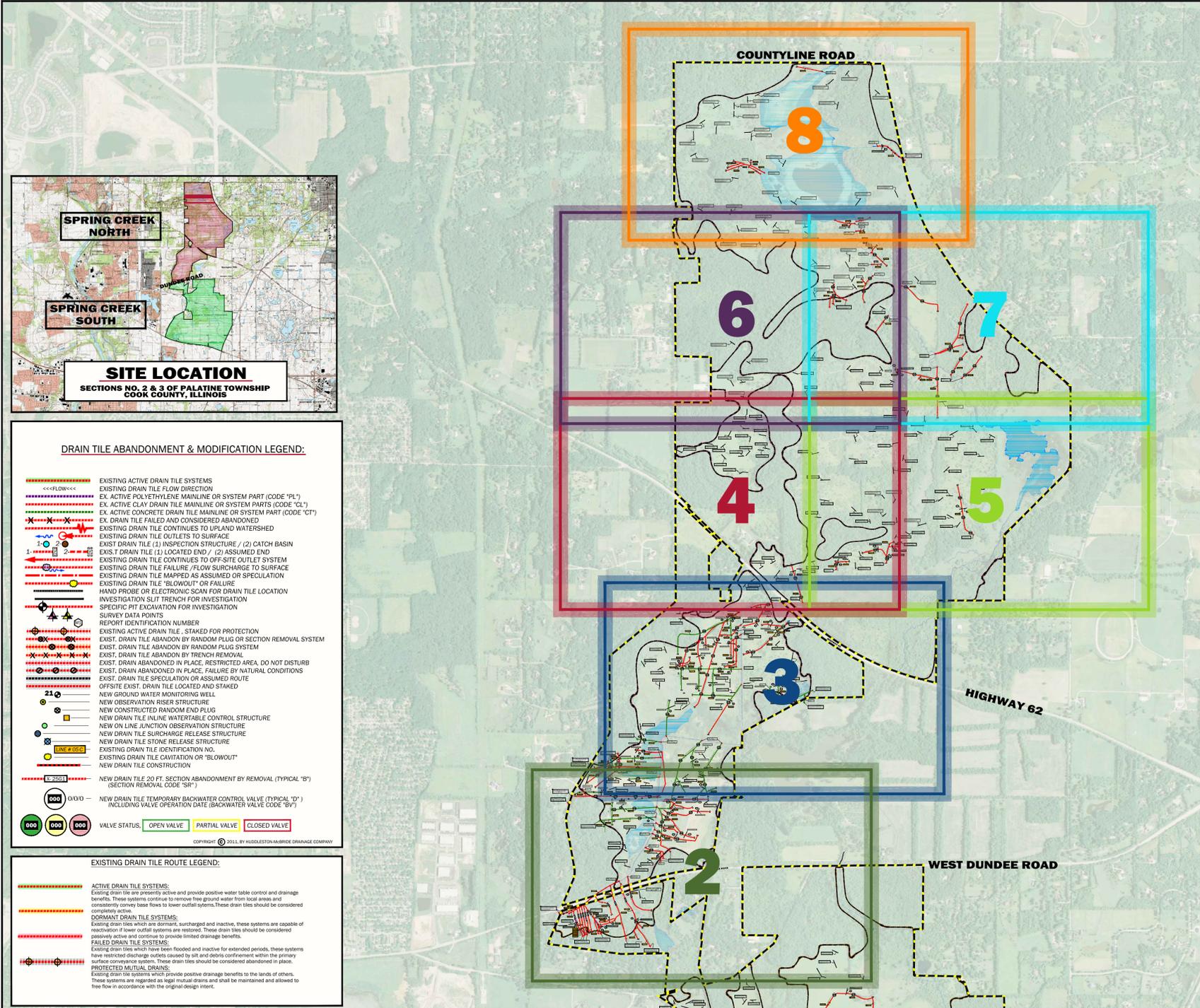


DEPARTMENT OF ARMY
U.S. CORPS OF ENGINEERS



FOREST PRESERVE DISTRICT
of Cook County, Illinois

PALATINE TOWNSHIP, COOK COUNTY, ILLINOIS
SHEET NO. 1 OF 8



EXISTING DRAIN TILE INVENTORY AND VALVE SCHEDULE

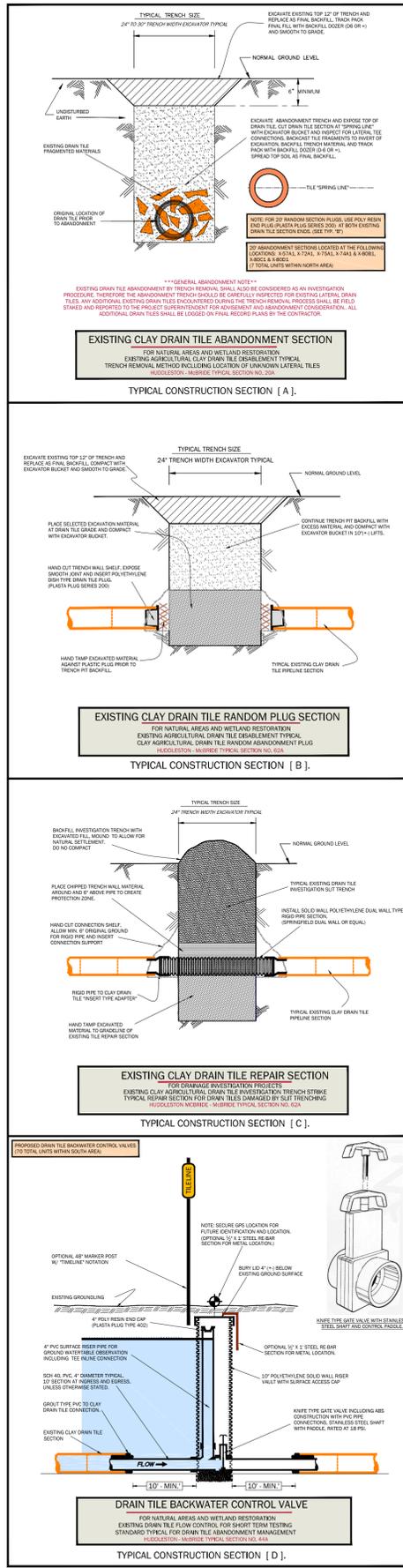
LINE NUMBER	TILE SIZE	TILE TYPE	TOTAL LENGTH	NUMBER OF VALVES
28A	4"CL	443'	1(BV)	
28B	4"CL	175'	0(BV)	
29A	4"CL	512'	1(BV)	
30A	4"CL	938'	2(BV)	
31A	3"CL	445'	1(BV)	
32A	6"CT	681'	1(BV)	
33A	4"CL	799'	2(BV)	
34A	3"CL	894'	2(BV)	
35A	4"CL	587'	1(BV)	
35B	3"CL	123'	0(BV)	
36A	3"CL	825'	2(BV)	
37A	6"CT	1,538'	3(BV)	
37B	5"CT	423'	0(BV)	
37C	5"CT	394'	0(BV)	
38A	6"CT	774'	2(BV)	
38B	6"CT	496'	1(BV)	
38C	5"CT	279'	0(BV)	
39D	5"CT	129'	0(BV)	
39A	5"CT	800'	1(BV)	
40A	10"CT	884'	2(BV)	
41A	6"CT	739'	0(BV)	
41B	6"CT	935'	0(BV)	
42A	6"CL	1,709'	4(BV)	
42B	3"CL	149'	0(BV)	
43A	5"CT	537'	1(BV)	
44A	6"CT	1,023'	1(BV)	
45A	6"CL	1,511'	2(BV)	
45B	4"CL	248'	1(BV)	
45C	4"CL	126'	0(BV)	
45D	4"CL	483'	0(BV)	
46A	5"CT	655'	1(BV)	
47A	4"CL	494'	1(BV)	
48A	4"CL	226'	1(BV)	
49A	5"CT	673'	1(BV)	
50A	10"CT	1,156'	1(BV)	
50B	5"CT	801'	1(BV)	
51A	8"CT	1,224'	3(BV)	
51B	5"CT	472'	0(BV)	
51C	5"CT	429'	0(BV)	
51D	5"CT	408'	0(BV)	
52A	4"CL	481'	1(BV)	
52B	4"CL	416'	0(BV)	
52C	4"CL	577'	1(BV)	
53A	8"CL	475'	1(BV)	
54A	8"CT	1,659'	2(BV)	
54B	5"CL	401'	0(BV)	
55A	8"CL	1,057'	3(BV)	
55B	10"CL	1,782'	4(BV)	
56A	4"CL	414'	1(BV)	
56B	3"CL	681'	1(BV)	
57A	5"CL	343'	1(SR)	
58A	5"CL	1,042'	3(BV)	
58B	3"CL	724'	0(BV)	
59A	4"CL	751'	2(BV)	
60A	4"CL	124'	1(BV)	
60B	4"CL	262'	0(BV)	
61A	4"CL	653'	2(BV)	
61B	4"CL	339'	0(BV)	
61C	4"CL	201'	0(BV)	
62A	6"CL	1,049'	3(BV)	
63A	8"CL	970'	2(BV)	
63B	4"CL	848'	1(BV)	
63C	3"CL	100'	0(BV)	
63D	3"CL	62'	0(BV)	
64A	4"CL	550'	2(BV)	
65A	4"CL	517'	2(BV)	
66A	4"CL	545'	1(BV)	
67A	8"CL	1,214'	2(BV)	
67B	4"CL	104'	0(BV)	
68A	4"CL	960'	2(BV)	
68B	3"CL	391'	1(BV)	
70A	8"CL	553'	2(BV)	
70B	4"CL	120'	1(BV)	
71A	4"CL	406'	1(BV)	
71B	4"CL	290'	1(BV)	
71C	4"CL	156'	0(BV)	
72A	10"CL	144'	1(SR)	
73A	6"CL	374'	1(BV)	
74A	4"CL	151'	1(SR)	
75A	4"CL	137'	1(SR)	
76A	4"CL	113'	0(BV)	
77A	4"CL	247'	0(BV)	
78A	4"CL	369'	0(BV)	
78B	4"CL	715'	0(BV)	
79A	4"CL	232'	0(BV)	
80A	6"CL	625'	0(BV)	
80B	4"CL	100'	1(SR)	
80C	4"CL	393'	1(SR)	
80D	4"CL	279'	1(SR)	
81A	4"CL	592'	0(BV)	
82A	6"CL	478'	0(BV)	
Total		#####	84	

DRAIN TILE ABANDONMENT & MODIFICATION LEGEND:

- EXISTING ACTIVE DRAIN TILE SYSTEMS
- EXISTING DRAIN TILE FLOW DIRECTION
- EX. ACTIVE POLYETHYLENE MAINTENANCE OR SYSTEM PART (CODE "PL")
- EX. ACTIVE CLAY DRAIN TILE MAINLINE OR SYSTEM PARTS (CODE "CL")
- EX. ACTIVE CONCRETE DRAIN TILE MAINLINE OR SYSTEM PART (CODE "CT")
- EX. DRAIN TILE FAILED AND CONSIDERED ABANDONED
- EXISTING DRAIN TILE CONTIGUOUS TO LAND 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 CONTIGUOUS TO OFF-SITE OUTLET SYSTEM
- EXISTING DRAIN TILE FAILURE / FLOW SURCHARGE TO SURFACE
- EXISTING DRAIN TILE MAPPED AS ASSUMED OR SPECULATION
- 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
- EXISTING ACTIVE DRAIN TILE - STAKED FOR PROTECTION
- EXIST. DRAIN TILE ABANDON BY RANDOM PLUG OR SECTION REMOVAL SYSTEM
- EXIST. DRAIN TILE ABANDON BY TRENCH REMOVAL
- EXIST. DRAIN ABANDONED IN PLACE, RESTRICTED AREA, DO NOT DISTURB
- EXIST. DRAIN ABANDONED IN PLACE, FAILURE BY NATURAL CONDITIONS
- EXIST. DRAIN TILE SPECULATION OR ASSUMED ROUTE
- OFFSITE EXIST. DRAIN TILE LOCATED AND STAKED
- NEW GROUND WATER MONITORING WELL
- NEW OBSERVATION RISER STRUCTURE
- NEW CONSTRUCTED RANDOM END PLUS
- NEW DRAIN TILE IN-LINE WATERABLE CONTROL STRUCTURE
- NEW ON LINE JUNCTION OBSERVATION STRUCTURE
- NEW DRAIN TILE SURCHARGE RELEASE STRUCTURE
- NEW DRAIN TILE STONE RELEASE STRUCTURE
- EXISTING DRAIN TILE IDENTIFICATION NO.
- EXISTING DRAIN TILE CAVITATION OR "BLOWOUT"
- NEW DRAIN TILE CONSTRUCTION
- NEW DRAIN TILE 20 FT. SECTION ABANDONMENT BY REMOVAL (TYPICAL "R") (SECTION REMOVAL CODE "SR")
- NEW DRAIN TILE TEMPORARY BACKWATER CONTROL VALVE (TYPICAL "D") INCLUDING VALVE OPERATION DATE (BACKWATER VALVE CODE "BV")
- VALVE STATUS: OPEN VALVE, PARTIAL VALVE, CLOSED VALVE

EXISTING DRAIN TILE ROUTE LEGEND:

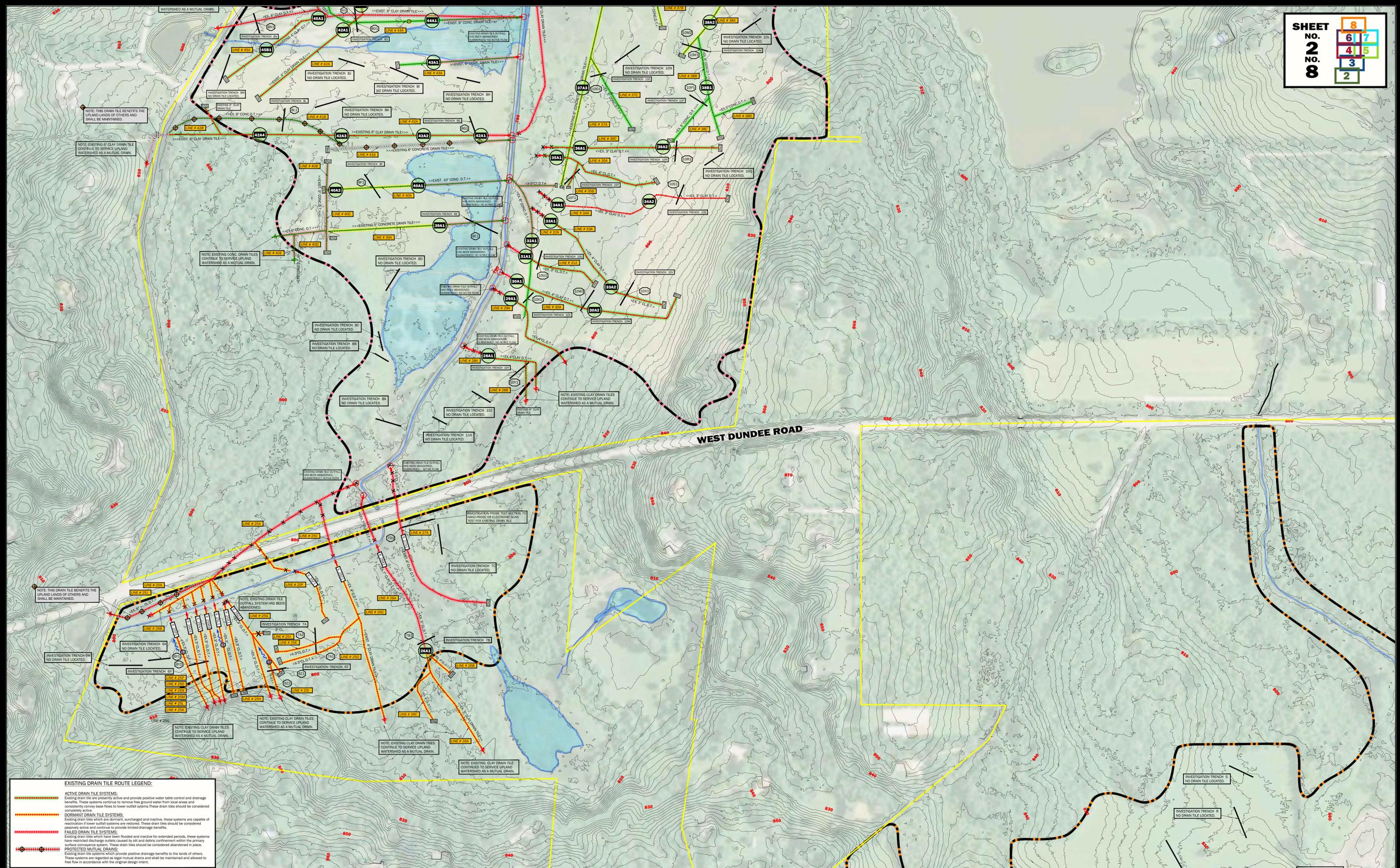
- ACTIVE DRAIN TILE SYSTEMS: Existing drain tiles are presently active and provide positive water table control and drainage benefits. These systems continue to receive flow from local areas and consistently convey base flows to lower outlet systems. These drain tiles should be considered completely active.
- DORMANT DRAIN TILE SYSTEMS: Existing drain tiles which are dormant, surcharged and inactive. These systems are capable of receiving flow from local areas and conveying base flows to lower outlet systems. These drain tiles should be considered partially active and continue to provide limited drainage benefits.
- FAILED DRAIN TILE SYSTEMS: Existing drain tiles which have been flooded and inactive for extended periods. These systems have restricted discharge outlets caused by silt and debris confinement within the primary surface conveyance system. These drain tiles should be considered abandoned in place.
- PROTECTED MITIAL DRAINS: Existing drain tile systems which provide positive drainage benefits to the lands of others. These systems are regarded as legal mitial drains and shall be maintained and allowed to flow in accordance with the original design.



EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION CONDITION REPORT

FROM HUD FIELD FILE NO. 11-00-00SC. 1/12/2011

ID NO.	S.	TYPE / QUALITY	FLOW %	SILT %	DEPTH (FT.)	FIELD NOTES
8A	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8B	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8C	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8D	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8E1	5'	CONC / GOOD	FLOODED	CLEAN	41'	NO DRAIN TILE LOCATED
8E2	10'	CLAY / GOOD	FLOODED	CLEAN	48'	RESTRICTED FLOW AND SURCHARGED
8G1	6'	CLAY / GOOD	FLOODED	80%	34'	RESTRICTED FLOW AND SURCHARGED
8H	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8I	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8J	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8K	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8L1	6'	CONC / GOOD	10%	CLEAN	39'	ACTIVE FLOW RATE AND CAPACITY
8M	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8N1	4'	CLAY / GOOD	40%	CLEAN	34'	ACTIVE FLOW RATE AND CAPACITY
8O	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8O2	4'	CLAY / GOOD	FLOODED	10%	42'	RESTRICTED FLOW AND SURCHARGED
8O3	5'	CLAY / GOOD	FLOODED	20%	43'	RESTRICTED FLOW AND SURCHARGED
8O4	3'	CLAY / GOOD	FLOODED	30%	37'	RESTRICTED FLOW AND SURCHARGED
8O5	6'	CONC / GOOD	FLOODED	20%	52'	RESTRICTED FLOW AND SURCHARGED
8O6	5'	CONC / GOOD	FLOODED	30%	38'	RESTRICTED FLOW AND SURCHARGED
8S1	6'	CONC / GOOD	FLOODED	10%	41'	RESTRICTED FLOW AND SURCHARGED
8T	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8U	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8V	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8W	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8X	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8Y	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8Z	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
8A	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9B	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9C	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9C2	3'	CLAY / GOOD	10%	SLIGHT	38'	ACTIVE FLOW RATE AND CAPACITY
9D1	5'	CONC / GOOD	FLOODED	20%	45'	RESTRICTED FLOW AND SURCHARGED
9D2	5'	CONC / GOOD	FLOODED	30%	43'	RESTRICTED FLOW AND SURCHARGED
9F	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9G1	10'	CONC / GOOD	FLOODED	CLEAN	69'	NO DRAIN TILE LOCATED
9H	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9I1	6'	CONC / GOOD	FLOODED	CLEAN	59'	RESTRICTED FLOW AND SURCHARGED
9K1	3'	CLAY / GOOD	FLOODED	50%	47'	RESTRICTED FLOW AND SURCHARGED
9L1	4'	CLAY / GOOD	FLOODED	30%	38'	RESTRICTED FLOW AND SURCHARGED
9M1	10'	CLAY / GOOD	FLOODED	60%	53'	RESTRICTED FLOW AND SURCHARGED
9N	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9N2	5'	CLAY / FAIR	FLOODED	60%	37'	RESTRICTED FLOW AND SURCHARGED
9N3	5'	CLAY / GOOD	FLOODED	10%	49'	ACTIVE FLOW RATE AND CAPACITY
9P1	8'	CLAY / GOOD	10%	SLIGHT	49'	ACTIVE FLOW RATE AND CAPACITY
9Q	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9R	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9S	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9T	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9U	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9V	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9W	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9X	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9Y	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
9Z	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10A1	6'	CONC / GOOD	FLOODED	20%	41'	RESTRICTED FLOW AND SURCHARGED
10B	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10C	4'	CLAY / GOOD	FLOODED	40%	33'	RESTRICTED FLOW AND SURCHARGED
10D	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10E	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10F1	6'	CONC / GOOD	10%	CLEAN	39'	ACTIVE FLOW RATE AND CAPACITY
10F2	3'	CLAY / GOOD	SLIGHT	20%	38'	ACTIVE FLOW RATE AND CAPACITY
10G	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10H	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10I	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10J	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10K	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10L	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10M1	6'	CONC / GOOD	FLOODED	20%	38'	RESTRICTED FLOW AND SURCHARGED
10M2	6'	CONC / GOOD	FLOODED	40%	40'	RESTRICTED FLOW AND SURCHARGED
10N	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10P1	5'	CONC / GOOD	FLOODED	30%	38'	RESTRICTED FLOW AND SURCHARGED
10P2	5'	CONC / GOOD	10%	CLEAN	39'	ACTIVE FLOW RATE AND CAPACITY
10Q	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10R1	3'	CLAY / GOOD	SLIGHT	41'	ACTIVE FLOW RATE AND CAPACITY	
10R2	3'	CLAY / GOOD	SLIGHT	20%	38'	ACTIVE FLOW RATE AND CAPACITY
10T1	3'	CLAY / GOOD	SLIGHT	70%	23'	ACTIVE FLOW RATE AND CAPACITY
10U1	3'	CLAY / GOOD	FLOODED	50%	34'	RESTRICTED FLOW AND SURCHARGED
10V	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10W1	4'	CLAY / GOOD	SLIGHT	SLIGHT	38'	ACTIVE FLOW RATE AND CAPACITY
10X	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
10Y1	4'	CLAY / GOOD	FLOODED	90%	38'	RESTRICTED FLOW AND SURCHARGED
10Y2	4'	CLAY / GOOD	10%	SLIGHT	39'	ACTIVE FLOW RATE AND CAPACITY
11A	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11B	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11C	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11D	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11E1	4'	CLAY / GOOD	SLIGHT	10%	36'	ACTIVE FLOW RATE AND CAPACITY
11E2	4'	CLAY / GOOD	SLIGHT	10%	36'	ACTIVE FLOW RATE AND CAPACITY
11F	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11G1	3'	CLAY / GOOD	SLIGHT	20%	39'	ACTIVE FLOW RATE AND CAPACITY
11J	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11K1	4'	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11L1	4'	CLAY / GOOD	FLOODED	20%	40'	RESTRICTED FLOW AND SURCHARGED
11M1	4'	CLAY / GOOD	SLIGHT	10%	36'	ACTIVE FLOW RATE AND CAPACITY
11N1	4'	CLAY / GOOD	SLIGHT	20%	36'	ACTIVE FLOW RATE AND CAPACITY
11O	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11P	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11Q	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11R	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11S	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11V	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11W	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11X	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11Y	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
11Z	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12A	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12B	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12C	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12D	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12E	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12F	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12G	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12H	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12I	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12J	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12K	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12L	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12M	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12N	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12O	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12P	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
12Q	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED



EXISTING DRAIN TILE ROUTE LEGEND:

- ACTIVE DRAIN TILE SYSTEMS:** Existing drain tile are presently active and provide positive water table control and drainage benefits. These systems continue to remove free ground water from local areas and consistently convey base flow to lower outfall systems. These drain tile should be considered completely active.
- DORMANT DRAIN TILE SYSTEMS:** Existing drain tiles which are dormant, surcharged and inactive, these systems are capable of reactivation if lower outfall systems are restored. These drain tile should be considered passively active and continue to provide limited drainage benefits.
- FAILED DRAIN TILE SYSTEMS:** Existing drain tile which have been flooded and inactive for extended periods, these systems have restricted discharge outlets caused by silt and debris confinement within the primary surface conveyance system. These drain tile should be considered abandoned in place.
- PROTECTED MUTUAL DRAINS:** Existing drain tile systems which provide positive drainage benefits to the lands of others. These systems are regarded as legal mutual drains and shall be maintained and allowed to free flow in accordance with the original design intent.

DEPARTMENT OF ARMY U.S. CORPS OF ENGINEERS
FOREST PRESERVE DISTRICT of Cook County, Illinois
US ARMY CORPS OF ENGINEERS, Environmental Planning Section
111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: **TOM HUDDLESTON 4/9/2011**
 ACKNOWLEDGMENTS: **HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM**
 DRAWN BY AND DATE: **TOM HUDDLESTON 4/9/2011**

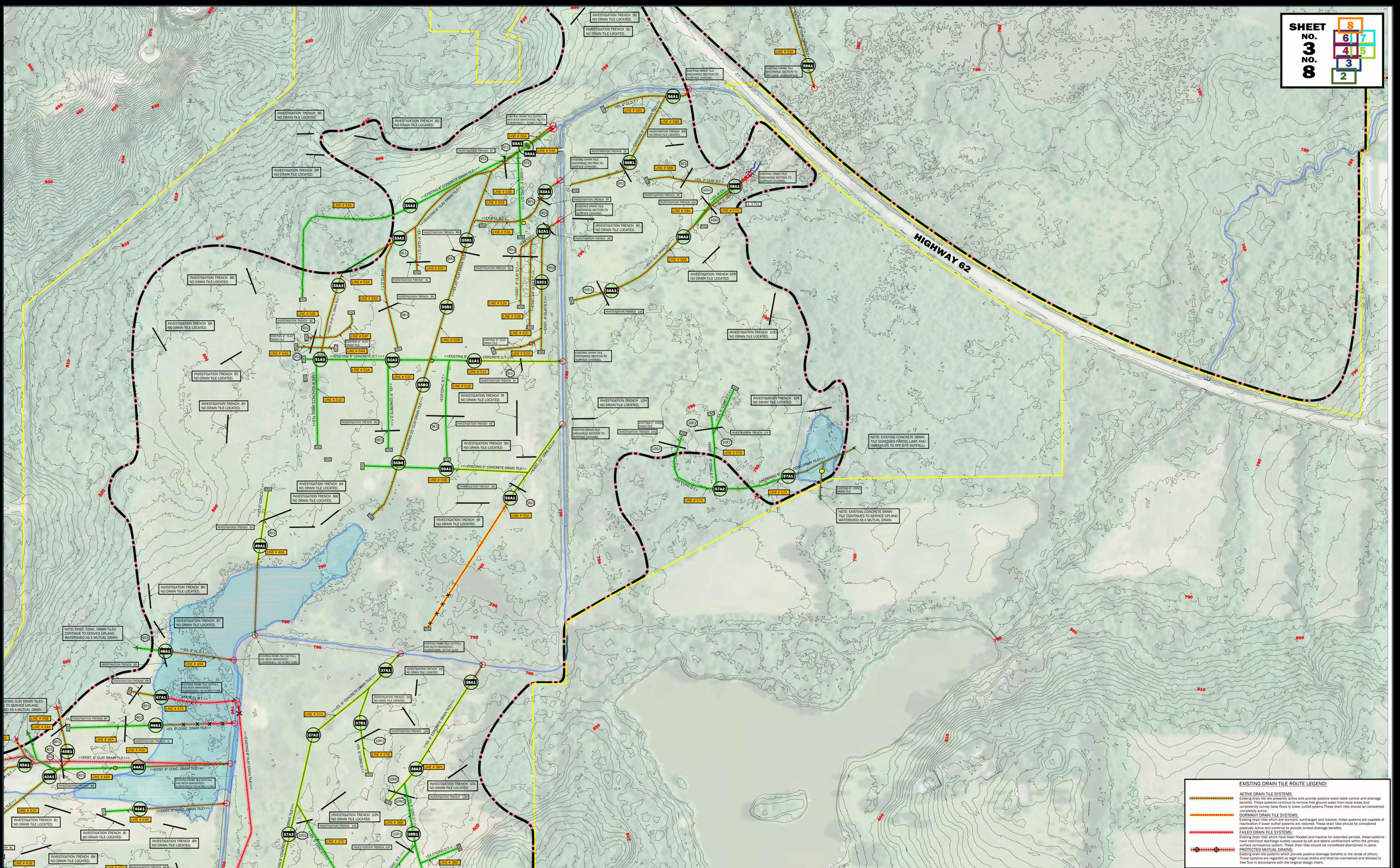
PROJECT DATE: **4/9/2011**
 FIELD FILE NO.: **11-00-00ScnorthFINAL**
 DRAWING NO.: **11-00-00ScnorthFINAL_r1**

REVISIONS:
 DATE: **6/27/2011** BY: **TLH** DESCRIPTION: **REVISIONS AND REVIEW BY TERA TECH**
 WEATHER CONDITIONS: **SPRING 2011**

DATE: **6/27/2011** BY: **TLH** DESCRIPTION: **REVISIONS AND REVIEW BY TERA TECH**
 DRAWING SCALE: **1" TO 200'**
 SHEET NO.: **TWO OF EIGHT**
 FIELD CREW: **F. McBRIDE**



SPRING CREEK NORTH RESTORATION AREA
HUDDLESTON McBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES
 9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 815-562-6007



EXISTING DRAIN TILE ROUTE LEGEND:

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DEPARTMENT OF ARMY U.S. CORPS OF ENGINEERS

FOREST PRESERVE DISTRICT of Cook County, Illinois

US ARMY CORPS OF ENGINEERS, Environmental Planning Section
111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: **TOM HUDDLESTON 4/9/2011**

ACKNOWLEDGMENTS: **HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM**

DRAWN BY AND DATE: **TOM HUDDLESTON 4/9/2011**

PROJECT DATE: **4/9/2011**

FIELD FILE NO.: **11-00-00ScnorthFINAL**

DRAWING NO.: **11-00-00ScnorthFINAL_r1**

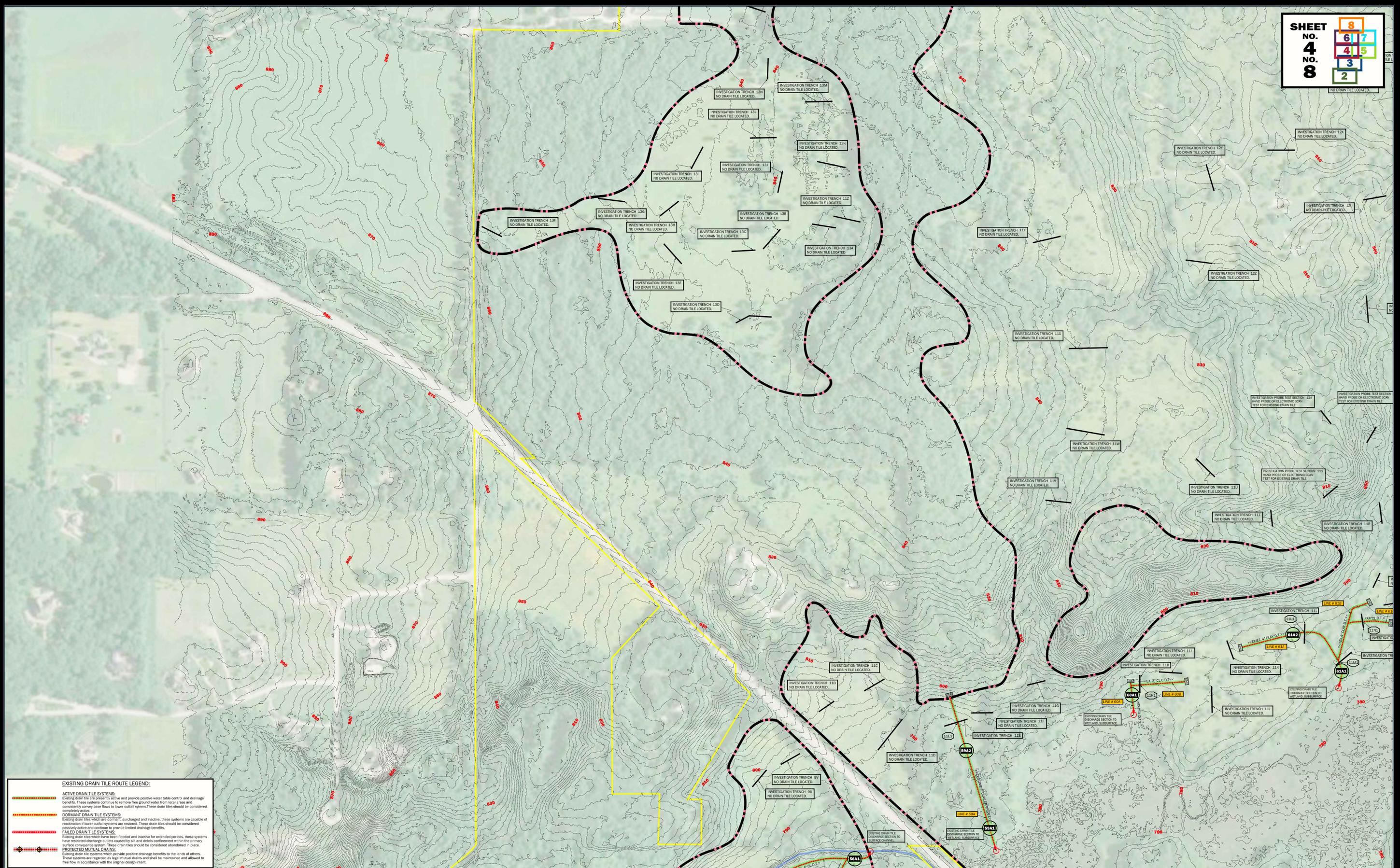
DATE: 6/27/2011	BY: TLH	DESCRIPTION: REVISIONS AND REVIEW BY TERA TECH
WEATHER CONDITIONS: SPRING 2011	DRAWING SCALE: 1" TO 200'	SHEET NO.: THREE OF EIGHT
		FIELD CREW: F. McBRIDE



SPRING CREEK NORTH RESTORATION AREA

HUDDLESTON MCBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES

9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 815-962-6007



EXISTING DRAIN TILE ROUTE LEGEND:

- ACTIVE DRAIN TILE SYSTEMS:** Existing drain tile are presently active and provide positive water table control and drainage benefits. These systems continue to remove free ground water from local areas and consistently convey base flows to lower outfall systems. These drain tiles should be considered completely active.
- DORMANT DRAIN TILE SYSTEMS:** Existing drain tiles which are dormant, surcharged and inactive, these systems are capable of reactivation if lower outfall systems are restored. These drain tiles should be considered passively active and continue to provide limited drainage benefits.
- FAILED DRAIN TILE SYSTEMS:** Existing drain tiles which have been flooded and inactive for extended periods, these systems have restricted discharge outlets caused by silt and debris confinement within the primary surface convergence system. These drain tiles should be considered abandoned in place.
- PROTECTED MULTIPLE DRAINS:** Existing drain tile systems which provide positive drainage benefits to the lands of others. These systems are regarded as legal mutual drains and shall be maintained and allowed to free flow in accordance with the original design intent.

DEPARTMENT OF ARMY U.S. CORPS OF ENGINEERS **FOREST PRESERVE DISTRICT of Cook County, Illinois**

US ARMY CORPS OF ENGINEERS, Environmental Planning Section
 111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: **TOM HUDDLESTON 4/9/2011**

ACKNOWLEDGMENTS: **HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM**

DRAWN BY AND DATE: **TOM HUDDLESTON 4/9/2011**

PROJECT DATE: **4/9/2011**

FIELD FILE NO.: **11-00-00SCnorthFINAL**

DRAWING NO.: **11-00-00SCnorthFINAL_r1**

DATE: **6/27/2011**

BY: **TLH**

DESCRIPTION: **REVISIONS AND REVIEW BY TERA TECH**

WEATHER CONDITIONS: **SPRING 2011**

DRAWING SCALE: **1" TO 200'**

SHEET NO.: **FOUR OF EIGHT**

FIELD CREW: **F. McBRIDE**



SPRING CREEK NORTH RESTORATION AREA

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