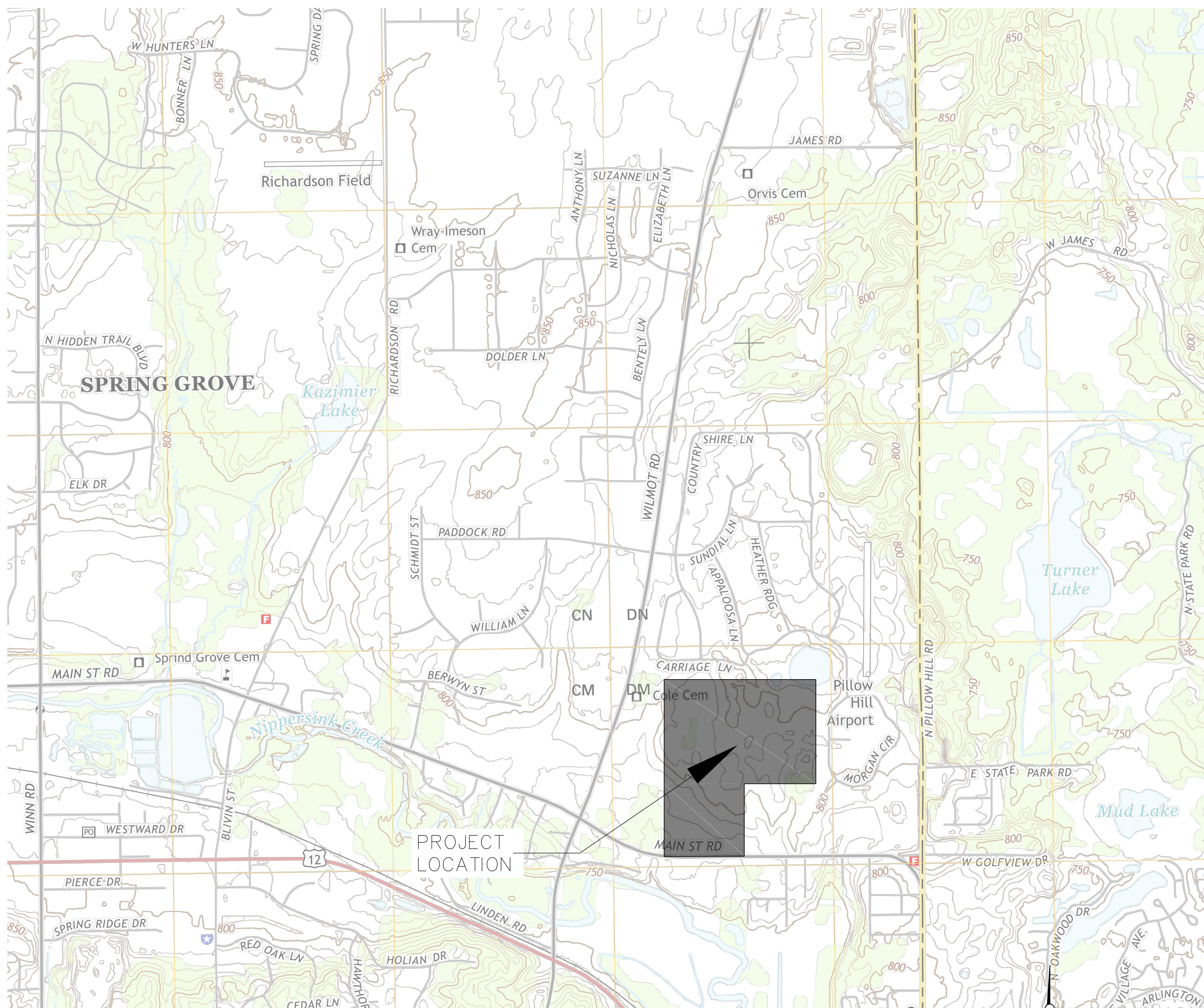


# ENGINEERING PLANS FOR PARADISE LAKE DEVELOPMENT SPRING GROVE, ILLINOIS



**INDEX OF SHEETS:**

1. COVER SHEET
2. EXISTING CONDITIONS & SOIL MAP
3. EXISTING CONDITIONS & 2022 AERIAL
4. TEMPORARY STORMWATER MANAGEMENT PLAN
5. STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P)
6. MINE PHASING & OPERATIONS PLAN
7. RECLAMATION PLAN
8. MAIN STREET ENTRANCE PLAN

**SURVEY BENCHMARK:**

**LOCAL BENCHMARK**  
MCHENRY COUNTY DESIGNATION NIPPER LOCAL  
USGS QUAD FOX LAKE LOCATED ON MEYER  
ROAD IN SPRING GROVE IL, 60071  
LAT: 42°25'31.18"N LONG: 88°14'15.99"W  
ELEVATION: 891.70 (NAVD88)

**SITE BENCHMARK**

FOUND-IRON-PIPE (F.I.P.) 1/2" AT  
NORTHEAST CORNER OF TRACT 2 BEFORE THE  
WETLAND BUFFER  
ELEVATION: 786.81 (NAVD88)

**TOPOGRAPHY**

TOPOGRAPHY TAKE FROM ELEVATIONS SHOT  
BY SCHMITT ENGINEERING ON 11/17/2022

**UTILITIES AND MUNICIPAL CONTACTS:**

AT&T - WWW.ATT.COM  
CUSTOMER SERVICE PHONE: (800) 288-2020  
REPAIR: (888) 611-4466

COMCAST - WWW.COMCAST.COM  
PHONE: (800)-COMCAST

COMED  
- WWW.EXELONCORP.COM/OURCOMPANIES/COMED/COMEDRES  
PHONE: (800)-EDISON-1

NICOR - WWW.NICOR.COM  
EMERGENCY PHONE: (888) 642-6748

CALL "J.U.L.I.E." @ 1-(800) 892-0123 BEFORE DIGGING

**CONTRACTOR NOTES:**

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

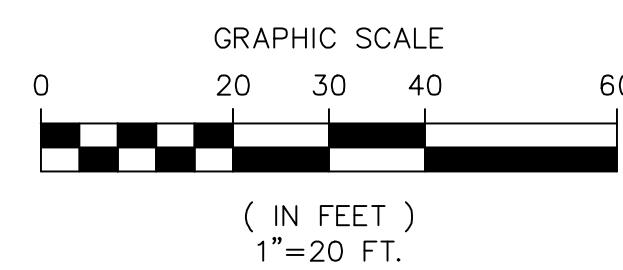
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.

EXISTING UTILITIES TO BE UNCOVERED AND VERIFIED FOR DEPTH PRIOR TO ANY TRENCHING, SETTING OF GRADES OR DRILLING TO AVOID DAMAGE TO EXISTING PIPES.

SCHMITT ENGINEERING AND ASSOC. INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITIES, OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF SCHMITT ENGINEERING & ASSOC. INC.

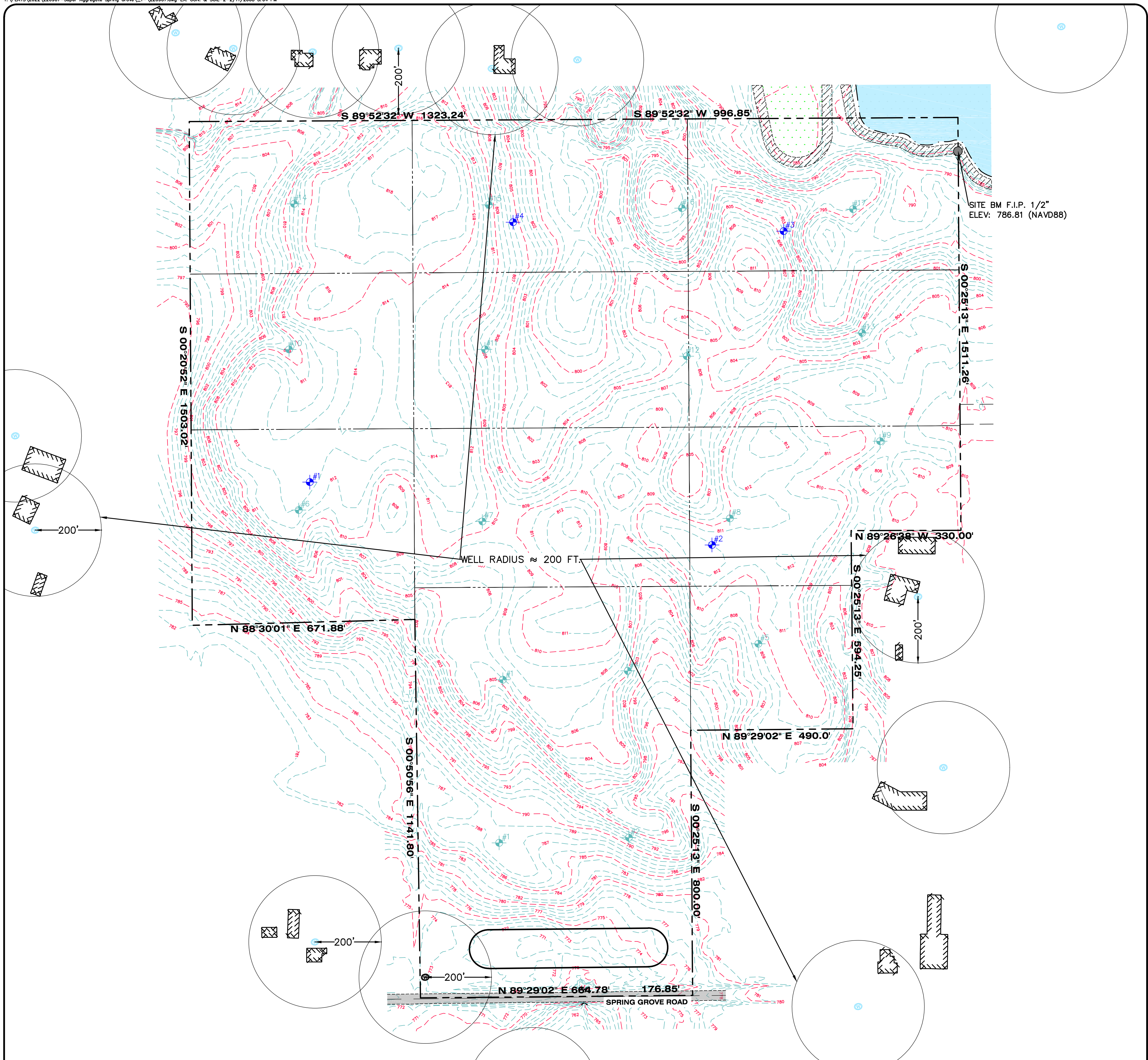
**STORM WATER CONTROL STATEMENT:**

I, ALBERT M. SCHMITT, OWNER OF SCHMITT ENGINEERING & ASSOCIATES, INC., LIC. NO. 062-046261, PROFESSIONAL ENGINEER OF THE STATE OF ILLINOIS, DO HEREBY CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS PROJECT OR ANY PART THEREOF, OR, IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE PROJECT OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE PROJECT. THE DETENTION BASIN AND BERM DO NOT MEET THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES OFFICE OF WATER RESOURCES (IDNR-OWR) DEFINITION OF A DAM. FURTHERMORE, THESE DEVELOPMENT PLANS HAVE MET THE MINIMUM REQUIREMENTS OF THE STORM WATER MANAGEMENT ORDINANCE OF MCHENRY COUNTY WITH LATEST AMENDMENTS SEPTEMBER 15, 2020.



GENERAL LEGEND			
	MONUMENT		STORM INLET
	PROPOSED FLOW DIRECTION		STORM MANHOLE
	EXISTING GRADE		EXISTING STORM SEWER UTILITY
	PROPOSED GRADE		PROPOSED STORM SEWER UTILITY
	LIGHT POLE		SANITARY MANHOLE
	UTILITY POLE		EXISTING SANITARY SEWER UTILITY
	EXISTING UNDERGROUND ELECTRIC UTILITY		PROPOSED SANITARY SEWER UTILITY
	PROPOSED UNDERGROUND ELECTRIC UTILITY		WATER SERVICE BOX
	EXISTING OVERHEAD ELECTRIC UTILITY		WATER VALVE
	PROPOSED OVERHEAD ELECTRIC UTILITY		EXISTING WATER UTILITY
	DOWNGUY		PROPOSED WATER UTILITY
	EXISTING TV UTILITY		FIRE HYDRANT
	PROPOSED TV UTILITY		EXISTING FIRE HYDRANT
	ELECTRIC CONNECTION		WATER CONNECTION
	TELECOMMUNICATION CONNECTION		EXISTING FENCE
	AIR CONDITIONING UNIT		PROPOSED FENCE
	GAS VALVE		DOWNSPOUT
	EXISTING GAS UTILITY		GENERATOR
	PROPOSED GAS UTILITY		PUBLIC UTILITY EASEMENT
	GAS CONNECTION		BUILDING SETBACK LINE
	FLARED END SECTION		DRAINAGE EASEMENT
	STORM INLET		VERIFY IN FIELD

Drawn By <b>ACT</b> Checked By <b>AMS</b> Date <b>06/10/2024</b> Scale <b>1" = 60 Ft.</b> Job Number <b>220907</b>	 <b>SCHMITT ENGINEERING</b> <small>215 West Calhoun Street, Woodstock, Illinois 60098 Phone (815) 337-7810 Fax (815) 337-7812 www.alschmittengineering.com</small>	<b>PARADISE LAKE DEVELOPMENT</b> 801 MAIN STREET ROAD, SPRING GROVE, IL 60081 P.I.N.: 05-29-326-004  <b>COVER SHEET</b>		Permit Number <b>HEALTH</b> Permit Number <b>PLANNING</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS		DATE	DESCRIPTION							<b>SHEET</b> <b>1 OF 8</b>	<b>PLANS PREPARED FOR:</b> FOX DEVELOPMENT/ SUPER AGGREGATES PHILLIP BROWN 5435 BULL VALLEY RD. STE. 330 MCHENRY, IL 60050 EMAIL: PHILLIPW.BROWN@HOTMAIL.COM PHONE: (815) 385 - 8000 EXT. 21
REVISIONS																	
DATE	DESCRIPTION																



SITE BM F.I.P. 1/2"  
ELEV: 786.81 (NAVD88)

WELL RADIUS ≈ 200 FT.

**EXISTING CONDITIONS NOTES:**

- NO FARM TILES EXIST ON THE PROPERTY
- NO WATER WELLS EXIST ON THE PROPERTY
- ALL EXCAVATIONS LOCATED MINIMUM 200' FROM ADJACENT PROPERTY WELLS
- PROCESS WATER PONDS LOCATED MINIMUM 25' FROM ADJACENT PROPERTY WELLS AND 50' FROM ADJACENT PROPERTY SEPTIC SYSTEMS

Spring Grove - 102.8 Acres  
801 Main Street, Spring Grove  
Hole Detail  
11/12/2021

Test #	Depth (ft.)	Composition
Hole 1	0-1' 1-3' 4-8' 8-20'	Topsoll Clay FBR Sand
Hole 2	0-1' 1-2' 2-20'	Topsoll Clay MBR
Hole 3	0-1' 2-8' 8-20'	Topsoll FBR Mason Sand
Hole 4	0-1' 1-2' 2-20'	Topsoll Clay MBR
Hole 5	0-2' 2-4' 4-8' 8-20'	Topsoll Clay FBR Sand
Hole 6	0-2' 3-4' 4-20'	Topsoll Clay FBR
Hole 7	0-1' 1-4' 4-20'	Topsoll Clay FBR
Hole 8	0-2' 2-3' 3-20'	Topsoll Clay MBR
Hole 9	0-2' 2-7' 8-20'	Topsoll Clay MBR
Hole 10	0-1' 1-3' 3-20'	Topsoll Clay CBR
Hole 11	0-3' 3-6' 6-20'	Topsoll Clay FBR
Hole 12	0-1' 1-3' 3-20'	Topsoll Clay MBR

Hole 13	0-2' 2-3' 3-20'	Topsoll Clay CBR
Hole 14	0-1' 1-20'	Topsoll CBR
Hole 15	0-1' 1-4' 4-20'	Topsoll Clay MBR
Hole 16	0-1' 1-3' 3-20'	Topsoll Clay MBR
Hole 17	0-2' 2-20'	Topsoll MBR
Hole 18	0-1' 1-3' 3-4' 4-20'	Topsoll Clay FBR Clay
Hole 19	0-1' 1-3' 3-6' 6-20'	Topsoll Clay FBR Clay

FBR - Fine Bank Run  
MBR - Medium Bank Run  
CBR - Coarse Bank Run

Boring Data - Hueman Well Drilling 10/12/22

Bore 1	2-48"	Sand & Gravel
Bore 2	2-56"	Sand & Gravel
Bore 3	3-34"	Sand & Gravel
Bore 4	4-38"	Sand & Gravel

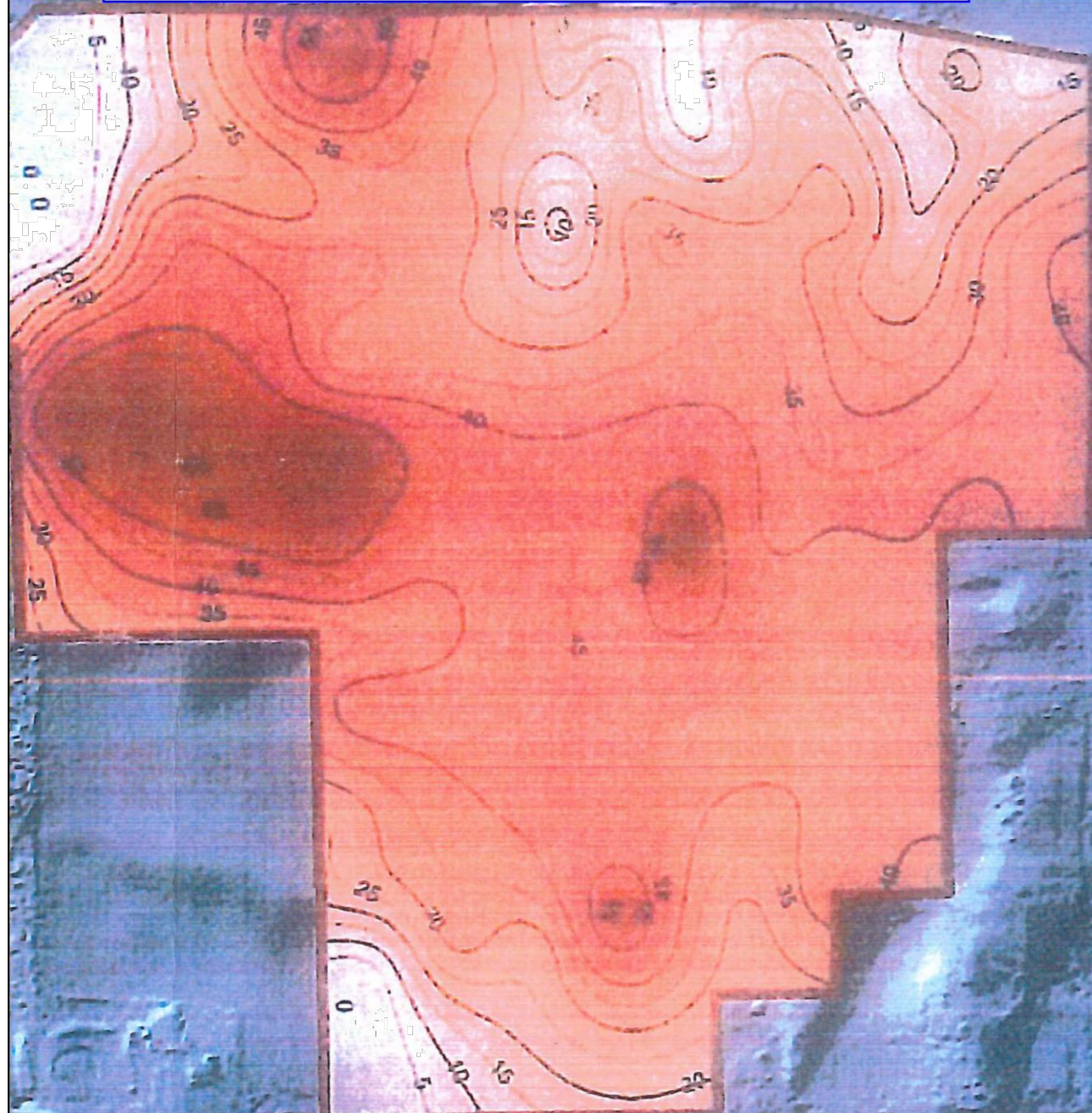
**Test Hole Data**

Test Hole	Overburden Thickness	Max. Gravel Thickness	Surface Elevation	Top of Gravel Elevation	Hole Depth
1	4	16	785	781	20
2	2	18	785	783	20
3	1	19	805	804	20
4	2	18	805	803	20
5	4	16	810	806	20
6	4	16	810	806	20
7	4	16	810	806	20
8	3	17	810	807	20
9	8	12	810	802	20
10	3	17	810	807	20
11	6	14	810	804	20
12	3	17	810	807	20
13	3	17	810	807	20
14	1	19	810	809	20
15	4	16	810	806	20
16	3	17	800	797	20
17	3	17	800	797	20
18 South	3	1	765	762	20
19 South	3	3	765	762	20

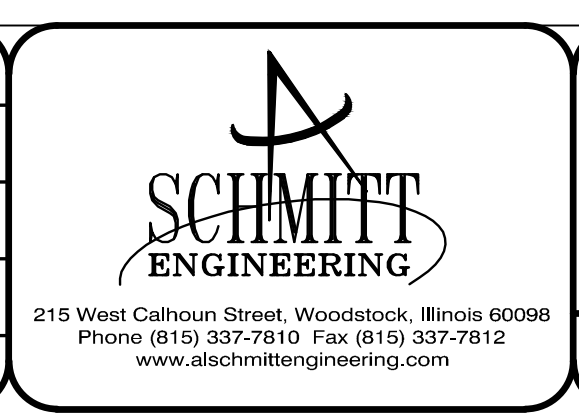
**Boring Data**

Boring	Overburden Thickness	Max. Gravel Thickness	Surface Elevation	Top of Gravel Elevation	Boring Depth
1	2	48	810	808	50
2	2	56	810	808	60
3	3	34	810	807	60
4	4	38	810	806	60

**LEGEND**  
Approximate Thickness of High Resistivity Layer  
HIGH : 65  
LOW : 0



Drawn By  
**ACT**  
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Date  
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**1" = 150 Ft.**  
Job Number  
**220907**



**PARADISE LAKE DEVELOPMENT**  
801 MAIN STREET ROAD,  
SPRING GROVE, IL 60081  
P.I.N.: 05-29-326-004

**EX. CONDITIONS & SOIL DATA**



Permit Number  
**HEALTH**

REVISIONS	
DATE	DESCRIPTION

**SHEET**  
**2 OF 8**

PLANS PREPARED FOR:  
**FOX DEVELOPMENT/ SUPER AGGREGATES**  
PHILLIP BROWN  
5435 BULL VALLEY RD. STE. 330  
MCHENRY, IL 60050  
EMAIL: PHILLIPW.BROWN@HOTMAIL.COM  
PHONE: (815) 385 - 8000 EXT. 21



SITE BM F.I.P. 1/2"  
ELEV: 786.81 (NAVD88)

NOISE DISTANCE ≈ 500 FT.

PERMANENT PLANT LOCATION

**EXISTING CONDITIONS NOTES:**

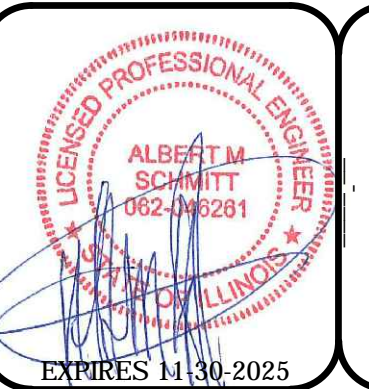
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- ALL EXCAVATIONS LOCATED MINIMUM 200' FROM ADJACENT PROPERTY WELLS
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**PARADISE LAKE DEVELOPMENT**  
801 MAIN STREET ROAD,  
SPRING GROVE, IL 60081  
P.I.N.: 05-29-326-004

**EX. CONDITIONS & AERIAL VIEW**

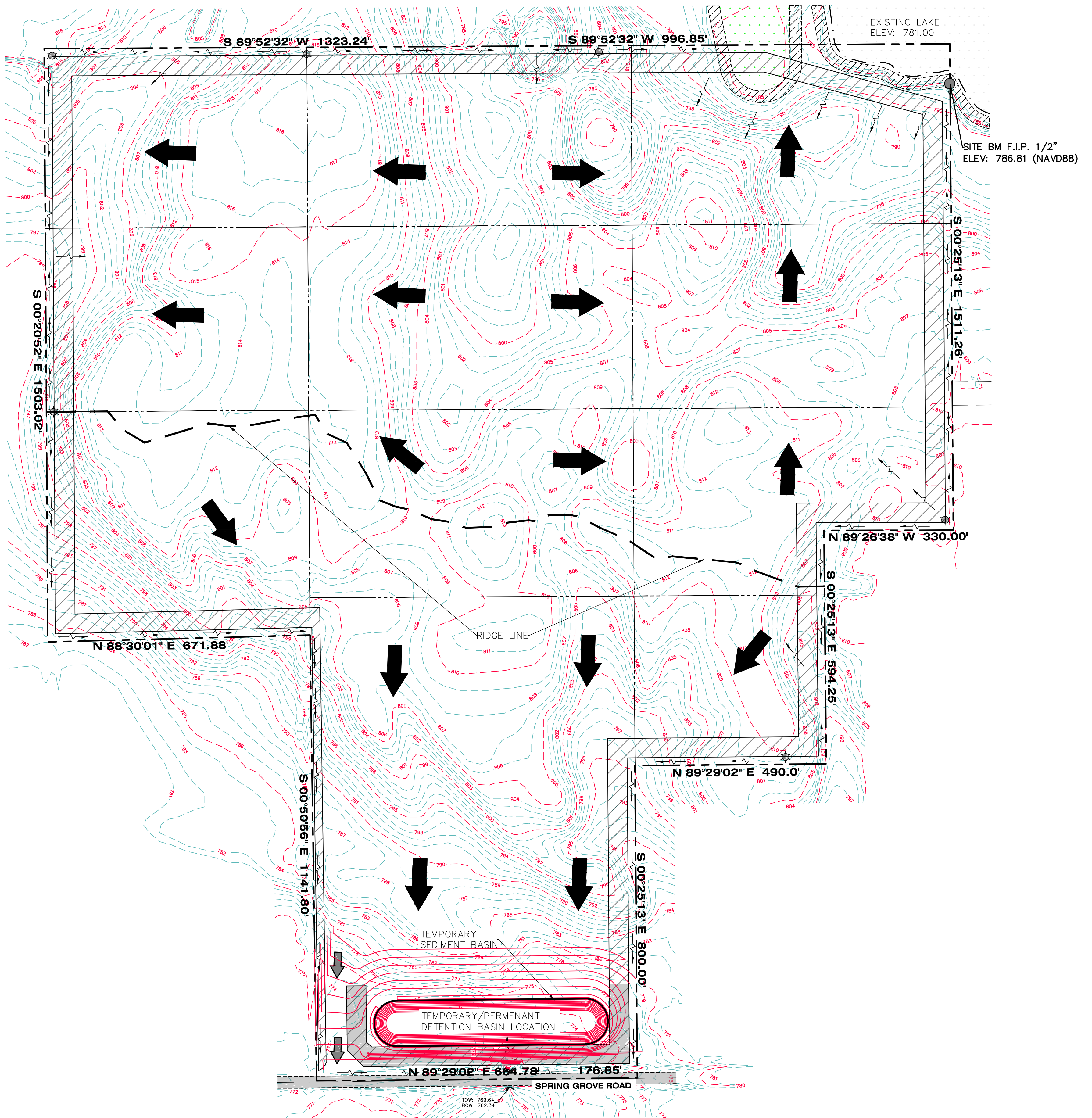


Permit Number  
HEALTH

REVISIONS	
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**SHEET**  
**3 OF 8**

**PLANS PREPARED FOR:**  
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5435 BULL VALLEY RD. STE. 330  
MCHENRY, IL 60050  
EMAIL: PHILLIPW.BROWN@HOTMAIL.COM  
PHONE: (815) 385 - 8000 EXT. 21



**NOTES:**

- TEMPORARY SWALES ARE TO BE CONSTRUCTED TO DIRECT STORMWATER DURING OVERBURDEN STRIPPING. THESE ARE TO BE ELIMINATED WHEN STRIPPED AREAS DRAIN TO INTERNAL DEPRESSIONS.
- FLOW ARROWS DEPICT ALL PRIOR SURFACE WATER LEAVING THE SITE PER ARROW DIRECTIONS. AS MINING OPERATIONS BEGIN IN EACH AREA, THAT SURFACE WATER THEN DRAINS INTO MINED AREAS THEREAFTER.
- NO FARM TILES EXIST ON PROPERTY

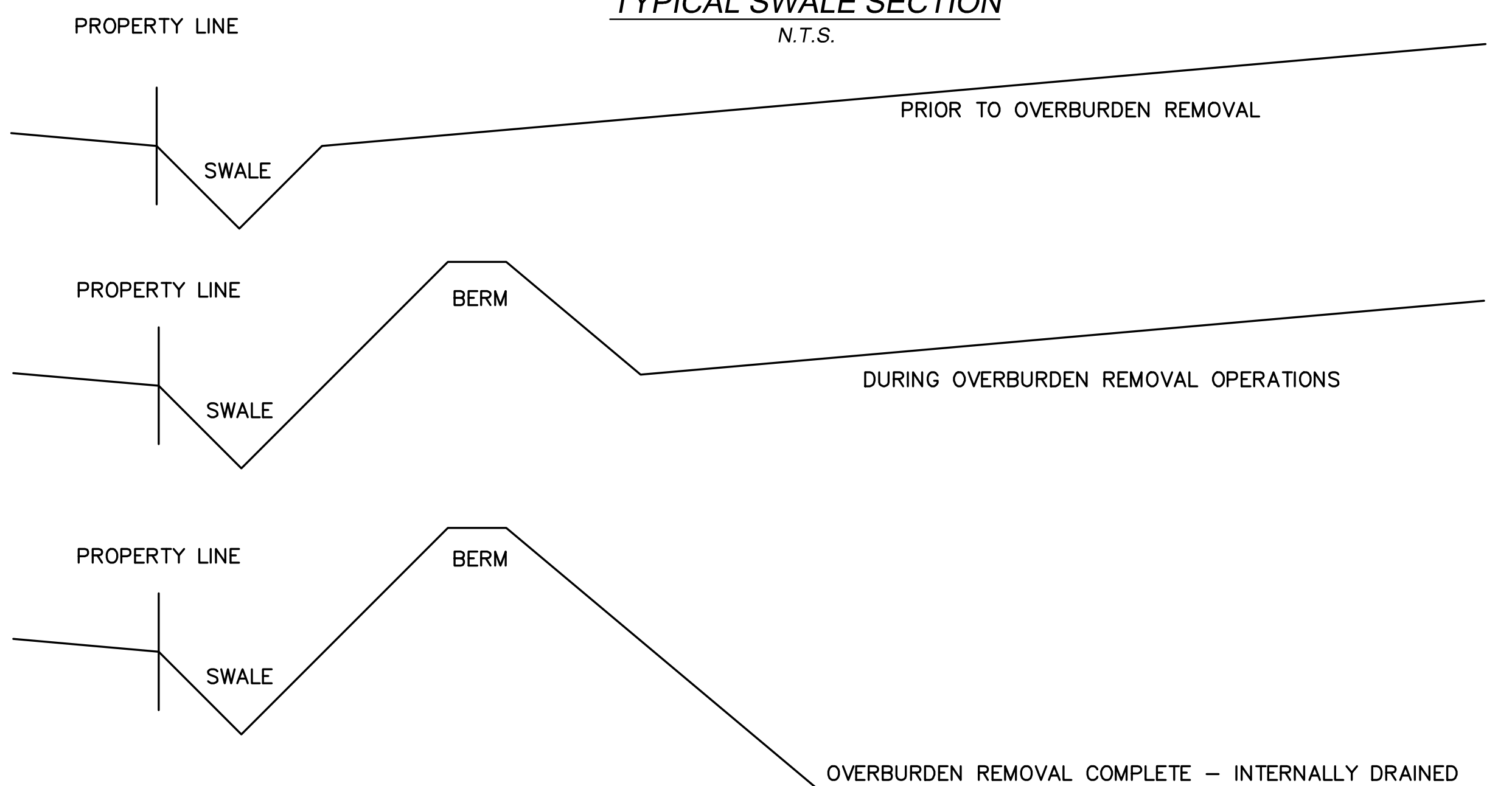
**DETENTION BASIN NOTES:**

- TOP OF BASIN: 770.00
- BOTTOM OF BASIN: 765.00
- 100-YR H.W.L.: 768.43
- 2-YR H.W.L.: 765.18
- TOTAL STORAGE: 8.86 AC-FT

**LEGEND**

	PROPOSED SWALE FLOW DIRECTION
	HIGHPOINT
	EXISTING OVERLAND FLOW ARROW
	BERM
	PROPOSED 100-YEAR OVERLAND FLOW ROUTE

**TYPICAL SWALE SECTION**  
N.T.S.

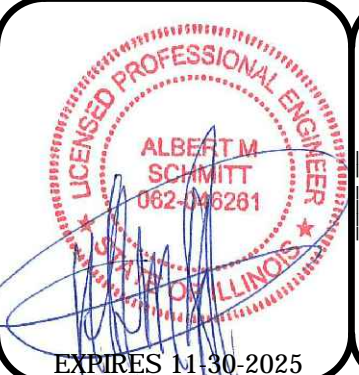


Drawn By  
**ACT**  
Checked By  
**AMS**  
Date  
**06/10/2024**  
Scale  
**1" = 150 Ft.**  
Job Number  
**220907**



PARADISE LAKE DEVELOPMENT  
801 MAIN STREET ROAD,  
SPRING GROVE, IL 60081  
P.I.N.: 05-29-326-004

**TEMPORARY DRAINAGE PLAN**



Permit Number  
**HEALTH**

REVISIONS	
DATE	DESCRIPTION

**SHEET**  
**4 OF 8**

**PLANS PREPARED FOR:**

FOX DEVELOPMENT/ SUPER AGGREGATES  
PHILLIP BROWN  
5435 BULL VALLEY RD. STE. 330  
MCHENRY, IL 60050  
EMAIL: PHILLIPW.BROWN@HOTMAIL.COM  
PHONE: (815) 385 - 8000 EXT. 21

**EROSION CONTROL SPECIFICATIONS & NOTES:**

This plan has been prepared to comply with the provisions of the NPDES Permit, which is issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.

**SITE DESCRIPTION**

- The following is a description of the construction activity, which is the subject of this plan:
  - The proposed development consists mining gravel, sand, and other materials for construction purposes. After mining operations and reclamation are complete, a lake and subdivision will be constructed. These construction activities will include: mining, grading, soil erosion and sedimentation control measures.
- The following is a description of the intended sequence of major activities, which will disturb soils for major portions of the construction site such as site clearing, excavation and grading.
  - The sequence of the construction activities may be as follows:
    - Install silt (barrier filter) fence and stabilized construction entrance
    - Site clearing
    - Mass grading
    - Operations and Reclamation
    - Fine grade swales and place seed disturbed areas
    - Remove sediment from silt fences and traps as necessary
    - Stabilize erosion areas with seeding & silt fence as necessary

- The site contains approximately 123.80 acres, 115.00 acres of this site will be disturbed by construction activities.
- The existing site is comprised of a vacant lot, and is boarded by farmland and subdivisions. Spring Grove Road runs between the project.
- This property is within the Fox River Watershed.

- CONTROLS**

This plan addresses the various controls that will be implemented for each of the major construction activities described in 1b above. For each measure discussed, the contractor will be responsible for its implementation as indicated. The general contractor has signed the required certification on forms, which are attached to, and are a part of, this plan.

  - Erosion and Sediment Controls

- STABILIZATION PRACTICES**

Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a (i) (A) and 2.b, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 10 days after the construction activity in that portion of the site where construction activity will not occur for a period of 21 or more calendar days.

  - Where the initiation of stabilization measures by the 10th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following interim and permanent stabilization practices, as a minimum will be implemented to stabilize the disturbed area of the site:

  - Permanent seeding
  - Temporary seeding, mulch, erosion mat, etc

- STABILIZATION PRACTICES**

Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a (i) (A) and 2.b, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 10 days after the construction activity in that portion of the site where construction activity will not occur for a period of 21 or more calendar days.

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The following interim and permanent stabilization practices, as a minimum will be implemented to stabilize the disturbed area of the site:

  - Permanent seeding
  - Temporary seeding, mulch, erosion mat, etc

**Standard Soil Erosion and Sediment Control Notes**

- Control measures shall meet the minimum standards and specifications of the Illinois Urban Manual ([www.aiswcd.org/IUM](http://www.aiswcd.org/IUM)) unless stated otherwise.
- Soil disturbance shall be conducted in such a manner as to minimize erosion. Areas of the development site that are not to be disturbed shall be protected from construction traffic or other disturbance until final stabilization is achieved.
- Soil stabilization measures shall consider the time of year, development site conditions and the use of temporary or permanent measures.
- Stabilization by seeding shall include topsoil placement and fertilization, as necessary.
- Native seed mixtures shall include rapid-growing annual grasses or small grains to provide initial, temporary soil stabilization.
- Offsite property shall be protected from erosion and sedimentation. Velocity dissipation devices shall be placed at concentrated discharge locations and along the length of any outfall channel, as necessary to prevent erosion.
- Sediment control measures shall be installed prior to the disturbance of tributary areas.
- Stabilization of disturbed areas shall be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the development site, or temporarily ceased on any portion of the development site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas shall be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible, but not later than 14 calendar days from the initiation of stabilization work in an area. Exceptions to these time frames are specified below:
  - Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable; and
  - In areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method may be used.
- Disturbance of steep slopes shall be minimized. Areas or embankments having slopes steeper than 3:1 shall be stabilized with staked in place sod, erosion control blanket in combination with seeding, or an equivalent control measure.
- Perimeter control measures shall be provided down slope and perpendicular to the flow of runoff from disturbed areas, where the tributary area is greater than 5,000 square feet, and where runoff will flow in a sheet flow manner. Perimeter erosion control shall also be provided at the base of soil stockpiles.
- The stormwater management system shall be protected from erosion and sedimentation down slope from disturbed areas. Inlet protection that reduces sediment loading, while allowing runoff to enter the inlet shall be required for all storm sewers. Check dams, or an equivalent control measure, shall be required for all channels. Filter fabric inlet protection and straw bale ditch checks are not acceptable control measures.
- If dewatering services are used, discharges shall be routed through an effective sediment control measure (e.g. sediment trap or an equivalent control measure). The Enforcement Officer shall be notified prior to the commencement of dewatering activities.
- All temporary soil erosion and sediment control measures shall be removed within 30 days after final stabilization of the development site is achieved or after the temporary measures are no longer necessary. Trapped sediment shall be removed and disturbed areas shall be permanently stabilized.
- Stockpiled soil and materials shall be removed from flood hazard areas at the end of each work day. Soil and materials stockpiled in IWMC or buffer areas shall be placed upon timber mats, or an equivalent control measure.
- Effective control measures shall be utilized to minimize the discharge of pollutants from the development site. At a minimum, control measures shall be implemented in order to:
  - Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash water; and
  - Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, vehicle fluids, sanitary waste, and other materials present on the development site to precipitation and to stormwater.
- Adequate receptacles shall be provided for the depositing of all construction material debris generated during the development process. The applicant shall not cause or permit the dumping, depositing, dropping, throwing, discarding or leaving of construction material debris upon or into any development site, channel, or IWMC. The development site shall be maintained free of construction material debris.
- The Enforcement Officer may require additional or alternate soil erosion and sediment control measures, based on development site specific considerations and the effectiveness of the installed control measures.

**Standard Drain Tile Notes**

- Drain tiles disturbed during regulated development shall be reconnected by those responsible for their disturbance, unless the development plans specify abandonment of the drain tiles.
- All abandoned drain tiles within disturbed areas shall be removed in their entirety.
- Drain tiles within the disturbed area of a development site shall be replaced, bypassed around the development site or intercepted and connected to the stormwater management system for the development site. The size of the replaced or bypassed drain tile shall be equivalent to the existing drain tile.

MEASURE GROUP	CONTROL MEASURE	APPL.	CONTROL MEASURE CHARACTERISTICS	TEMP.	PRIMINT.
VEGETATIVE SOIL COVER	TEMPORARY SEEDING		PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING		PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER, MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING		SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.		X
	SODDING		QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.		X
	GROUND COVER		PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		X
NON VEGETATIVE SOIL COVER	MULCHING		ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.		X
	AGGREGATE COVER		PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		X
	PAVING		PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X
DIVERSIONS	EROSION BLANKET		PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN SLOPED AREAS.		X
	RIDGE DIVERSION		TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION		TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
	COMBINATION DIVERSION		TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
	CURB AND CUTTER		SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		X
SEDIMENT BASINS	BENCHES		SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.		
	BARE CHANNEL		PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	VEGETATIVE CHANNEL		PROVIDES ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		
SEDIMENT FILTERS	SEDIMENTATION POND		A WET OR DRY DETENTION BASIN SIZED FOR THE POST DEVELOPMENT 100 YEAR STORM TEMPORARILY MODIFIED TO ENHANCE SEDIMENT REMOVAL DURING CONSTRUCTION.		
	BARRIER FILTER		USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.		
	VEGETATIVE FILTER		USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
MUD AND DUST CONTROL	FILTER FABRIC		USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER.	X	
	INLET PROTECTION		USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER.	X	
MUD AND DUST CONTROL	CONST. ENTRANCE		PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE. (SEDIMENT ON PUBLIC ROADS IS NOT TO BE FLUSHED OFF WITH WATER).	X	
	DUST AND TRAFFIC CONTROL		PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.		

**EROSION CONTROL SPECIFICATIONS & NOTES (CONTINUED):**

B. Erosion control structures must be inspected weekly and after every rainstorm of one-half inch of rainfall or greater. Any repairs or replacements needed to ensure adequate erosion control must be made immediately. Items D-I will be repeated for each phase.

- Construction shall be scheduled in the following order:
- Finalize construction access entrances and silt fencing as located on plan
  - Grade Site
  - Seed topsoil stockpiles
  - Rough grade roadways
  - Rough grade building pads and yards
  - Final grade areas that will not be disturbed by building construction. These areas will then be covered with topsoil, seeded and stabilized with excelsior blanket where directed on erosion control plan sheet.
  - Temporary seed any areas that cannot be permanently seeded, including building pads that will not commence foundation construction for more than 21 days.
  - Install storm sewers including filter fabric between frame and grate, and riprap at the downstream end of flared end sections
  - Building construction
  - Finalize roadway grading
  - Finalize grading ground buildings, re-spread topsoil, spread seed, and put excelsior blanket down.
  - Proof roll road sub-base
  - Construct gravel road sub-base and base surface course
  - Place topsoil in all disturbed areas along the right-of-way and seed

Any situation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor on a weekly basis, until the seeding has taken hold. All washouts, gullies, etc. will be re-graded and reseeded by the contractor, at the Contractor's expense. Sediment on public roads from the site shall not be flushed off with water.

The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for cleanup of paved surfaces within and adjacent to the project.

All erosion control practices shall be in compliance with the latest revision of the "Standard Specifications for Road and Bridge Construction", by the Illinois Department of Transportation and with the Illinois Environmental Protection Agency's "Illinois Urban Manual".

- STRUCTURAL PRACTICES.**

Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed area of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.

  - Storm sewer system
  - Inlet protection using filter fabric
  - Silt filter fence - M288-00
- Stormwater Management**

Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

  - The practices selected for implementation were determined on the basis of the technical guidance contained in EPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other ordinances listed in the Specifications. The stormwater pollutant control measures shall include:
    - Silt filter fence
    - Storm sewers
    - Inlet protection - M288-00
  - Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained or protected (e.g., maintenance of hydrologic conditions, such as the hydro period and hydrodynamics present prior to the initiation of construction activities).

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**EROSION CONTROL SPECIFICATIONS & NOTES (CONTINUED):**

c. Other Controls

- Waste Disposal.** The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- The provision of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

- Approved State or Local Plans**

The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual, use latest version. Requirements specified in sediment and erosion control site plans or site permits or stormwater management or surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

- MAINTENANCE**

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

Vegetative or erosion control measures: The vegetative growth or temporary and permanent seeding, sodding, vegetative channels, vegetative filter, etc. shall be maintained periodically and supply adequate watering. The vegetative cover shall be reseeded as necessary.

Sedimentation basins/traps: The sediments shall be removed when the sediment occupies 40-50 percent of the total original capacity in no case shall the sediment be built up to within 1 foot of the crest elevation. At this stage, the basin shall be cleaned out to restore its original volume. Sediment Basins shall be removed at end of construction; at the time the final surface course has been placed.

Silt filter fence: The damaged silt filter fence shall be restored to meet the Original Design Standards. Removed and replaced as needed.

Straw bale barrier filters: The straw bale barrier filter shall be inspected frequently and shall be repaired or removed and replaced as needed.

Riprap outlet protection: It shall be inspected after high flows for any scour beneath the riprap or for stones that have been dislodged. It shall be repaired immediately.

- INSPECTIONS**

Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater or equivalent snowfall.

- Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, it shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.**
- Based on the results of the inspection, the description of potential pollutant sources identified in accordance with the Site Description of this permit and pollution prevention measures identified in the plan shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any change to the plan within 7 calendar days following the inspection.

- A report summarizing the scope of the inspection, the name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least 3 years after the date of inspection. The report shall be signed in accordance with Signatory Requirements of this permit.

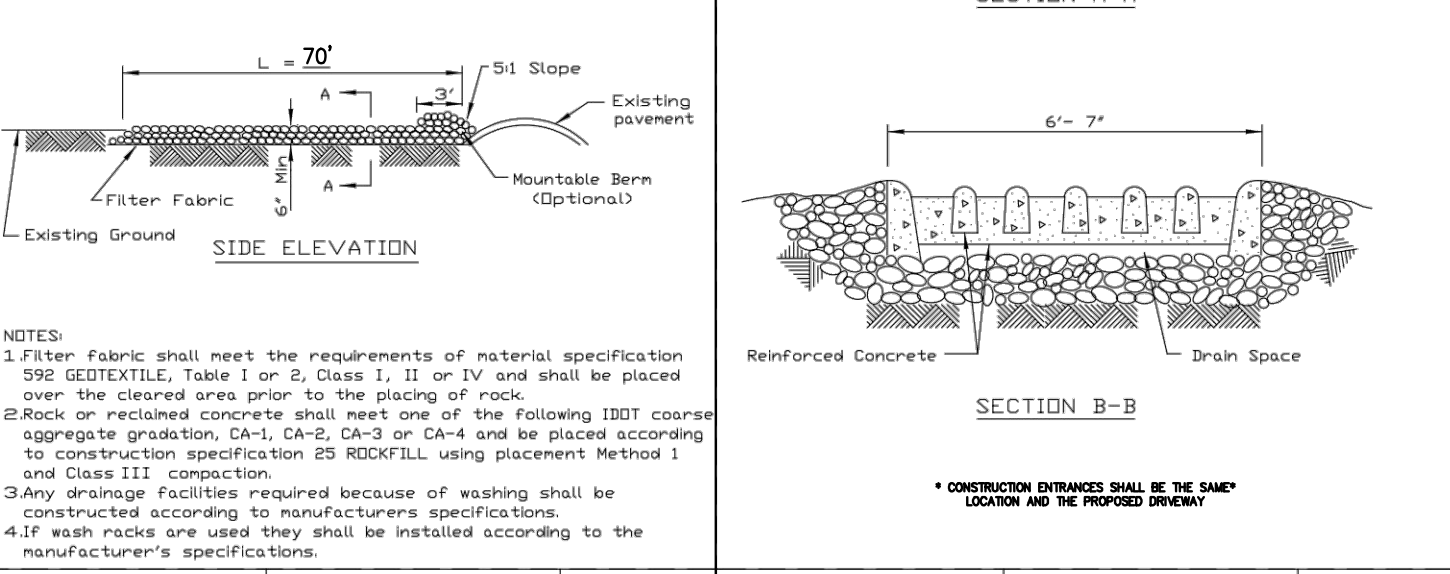
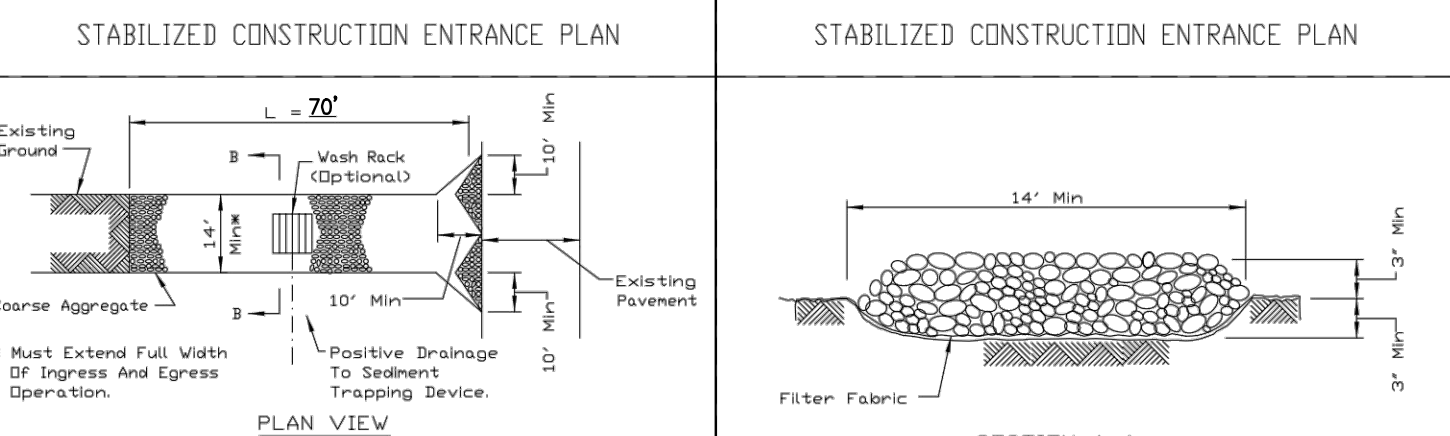
- The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ON) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information of the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environment impact, which may have resulted from the noncompliance.

- All reports of noncompliance shall be signed by a responsible authority as defined in General Permit ILR10, Part VI, G (Signatory Requirements).
- All reports of noncompliance shall be mailed to the Agency at the following address:

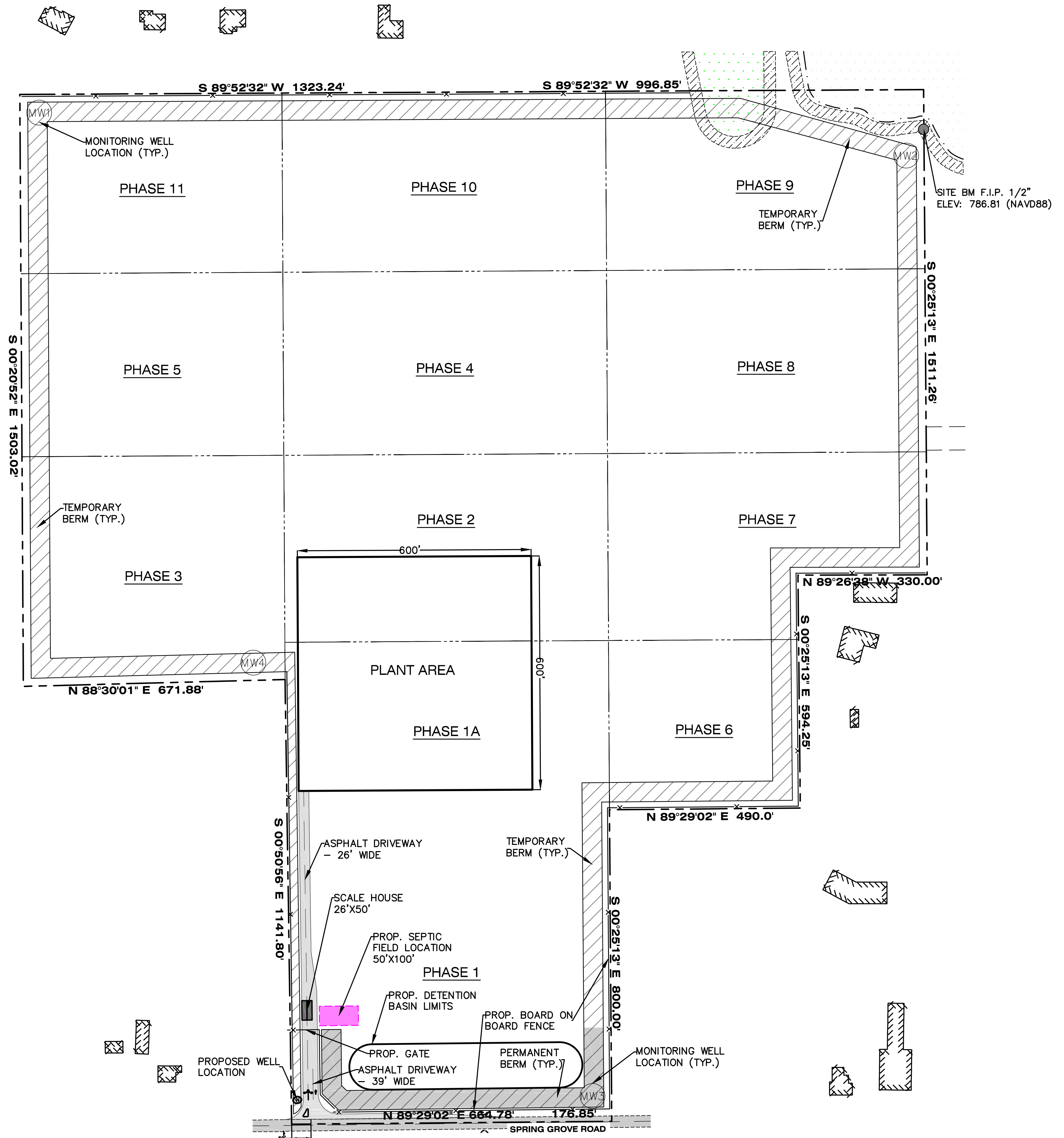
Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Compliance Assurance Section  
1021 North Grand East  
PO Box 19276  
Springfield, IL 62794-9276

**CONTRACTOR NOTES**

- CONSTRUCTION ENTRANCES (AS DETAILED OR ACCEPTABLE ALTERNATIVE) SHALL BE PLACED AT MINE ENTRANCE UNTIL SUCH TIME AS THE PROPOSED ASPHALT ROAD HAS BEEN ESTABLISHED. AT WHICH TIME THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE REMOVED.
- EROSION BLANKET SHALL BE PLACED ON ALL DISTURBED AREAS WITH SLOPES GREATER THAN 5 TO 1 UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- SILT FENCE SHALL TEMPORARILY BE PLACED ALONG ALL PROPERTY LINES WHERE NEWLY CONSTRUCTED BERMS DO NOT HAVE ESTABLISHED VEGETATION TO PREVENT EROSION. SILT FENCE SHOULD BE REMOVED ONCE VEGETATION IS ESTABLISHED.

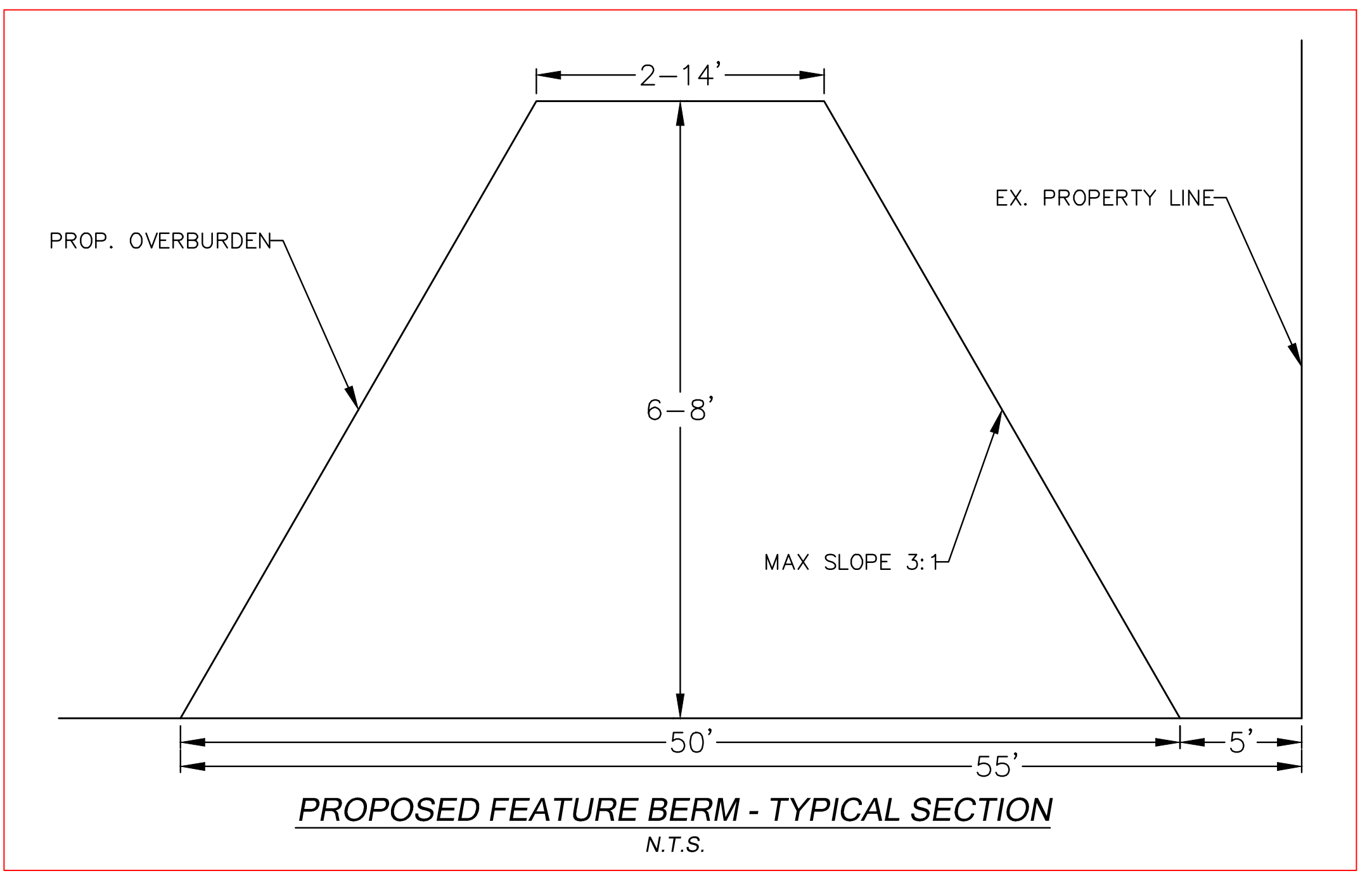
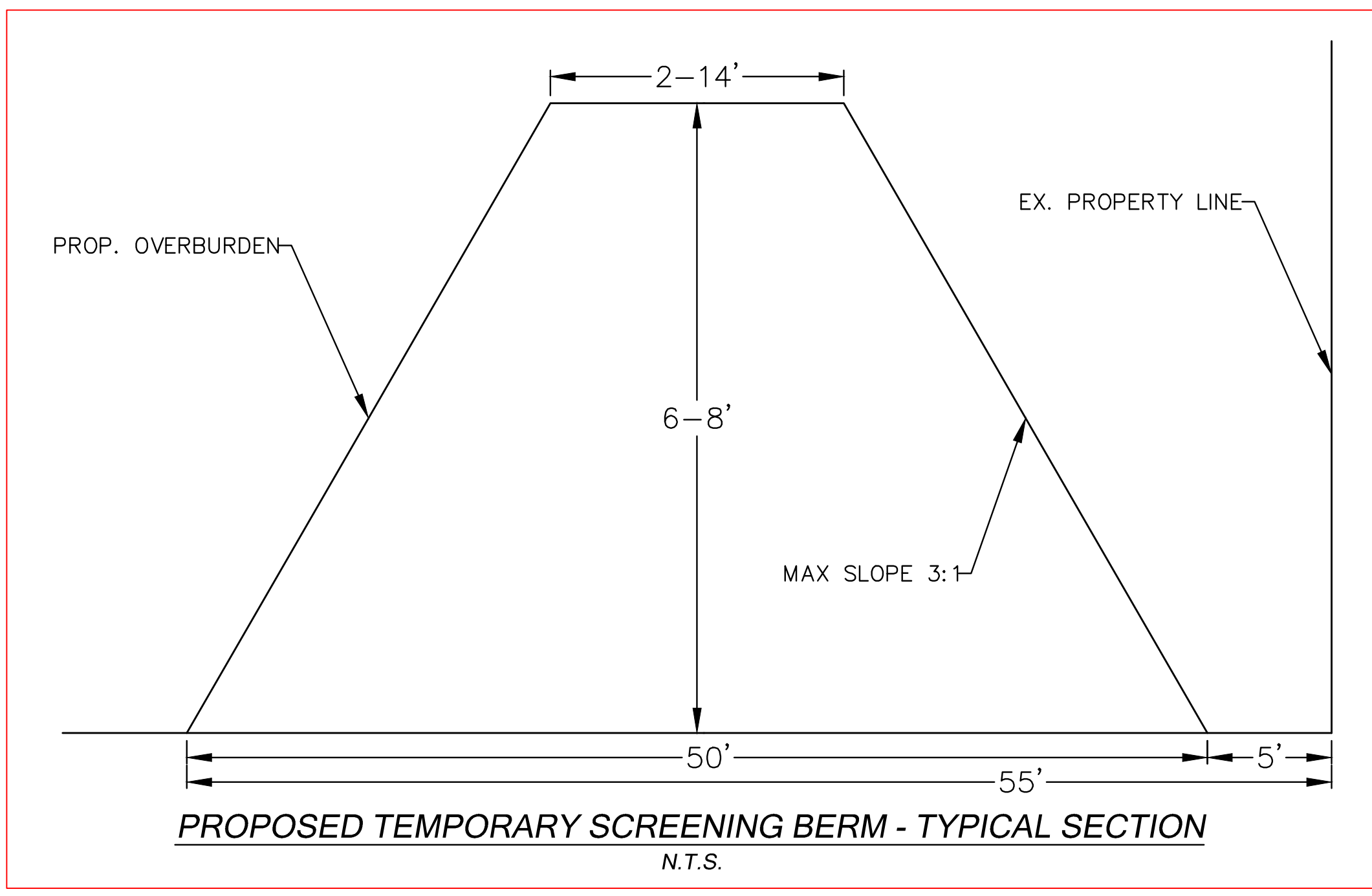
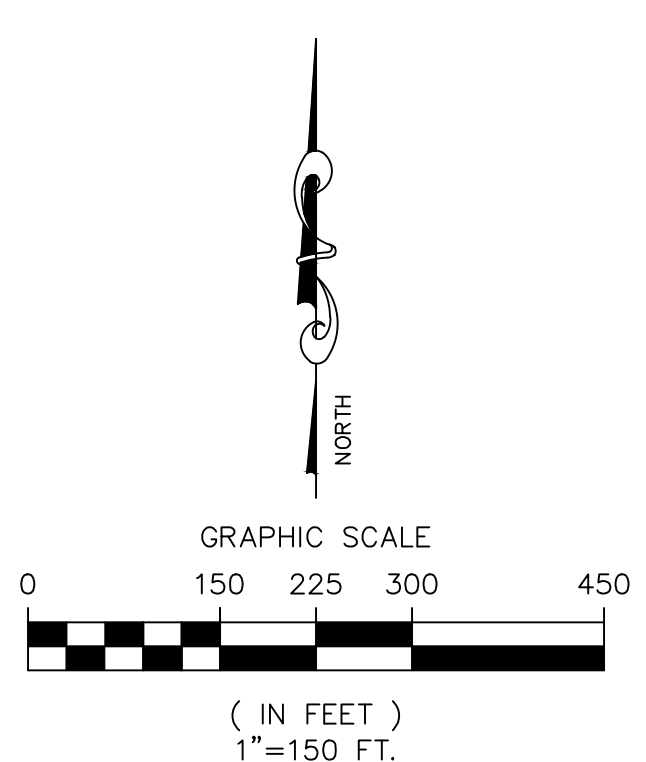


NOTES:  
1. Temporary sediment fence shall be installed prior to any grading work in the areas to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.  
2. Filter fabric shall meet the requirements of material specification 592 (SEE DETAIL).  
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73. Filter fabric

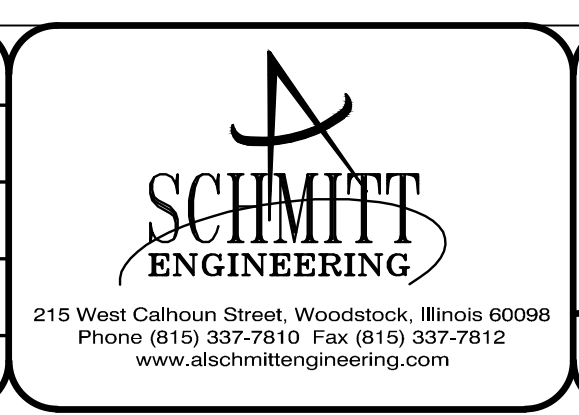


MINING PHASE PLAN			
PHASE	ACRES	APPROXIMATE MINING PERIOD	APPROXIMATE RECLAMATION PERIOD
1	15.1	2025	2026
1A	8.4	2025	2026
2	9.2	2026	2027
3	9.0	2027	2028
4	9.0	2028	2029
5	7.3	2029	2030
6	7.8	2030	2031
7	8.8	2031	2032
8	7.3	2032	2033
9	8.8	2033	2034
10	4.9	2034	2035
11	7.1	2035	2036

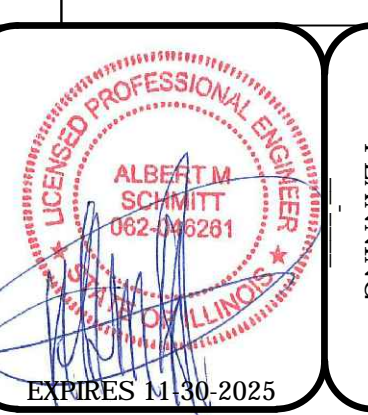
**MINING PHASE NOTES:**  
 - PROPOSED OPERATIONS SHALL NOT EXCEED 10-ACRES IN ONE PERMIT YEAR. OVERBURDEN SHALL NOT EXCEED 10-FEET IN DEPTH. (APPROXIMATELY 2 TO 4- FEET OF OVERBURDEN ON SITE ACCORDING TO SOIL BORINGS)



Drawn By  
ACT  
 Checked By  
AMS  
 Date  
06/10/2024  
 Scale  
1" = 60 Ft.  
 Job Number  
220907



PARADISE LAKE DEVELOPMENT  
 801 MAIN STREET ROAD,  
 SPRING GROVE, IL 60081  
 P.I.N.: 05-29-326-004  
**MINE PHASING & OPERATIONS PLAN**

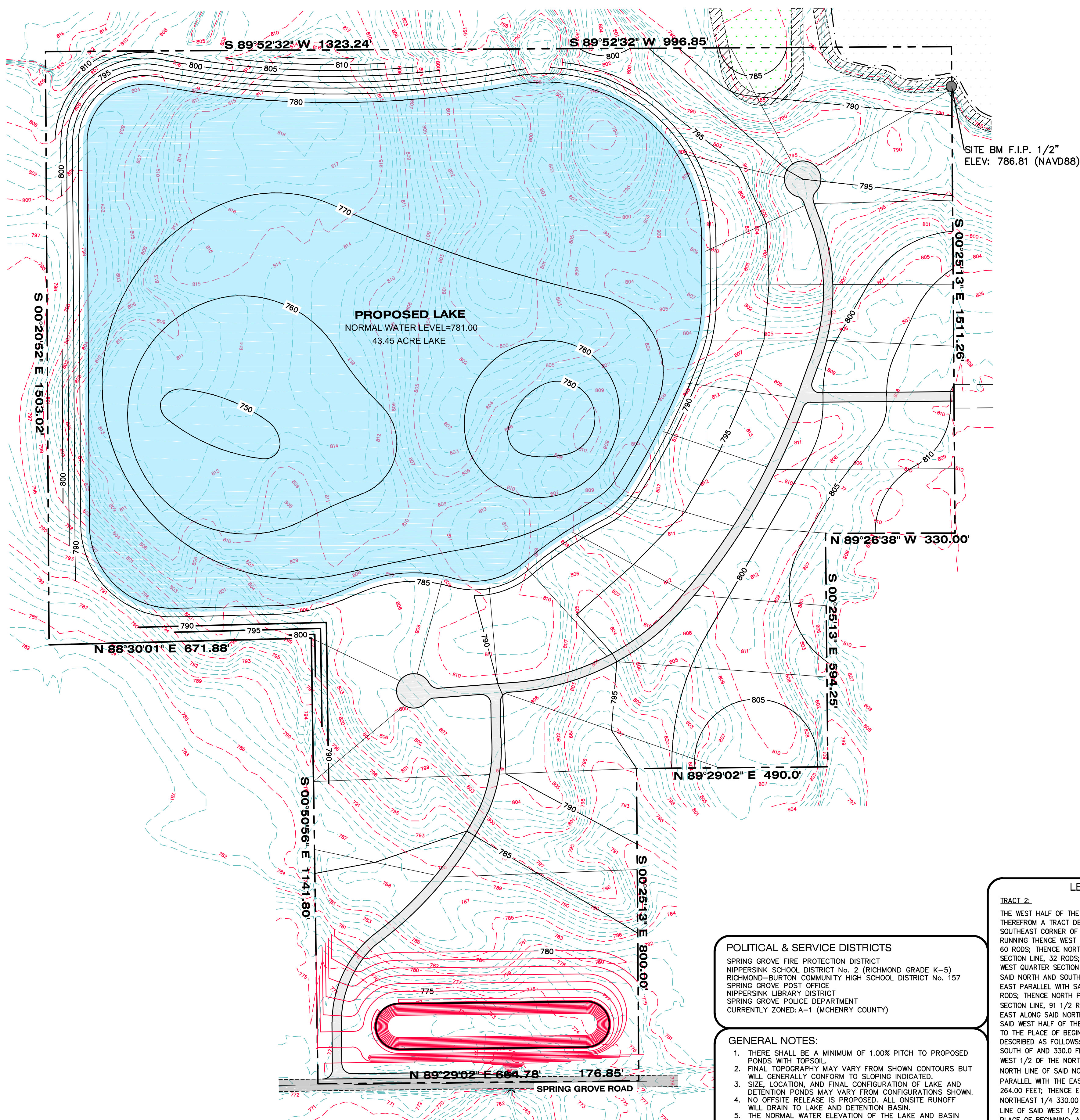


REVISIONS	
DATE	DESCRIPTION

Permit Number  
PLANNING  
 Permit Number  
HEALTH

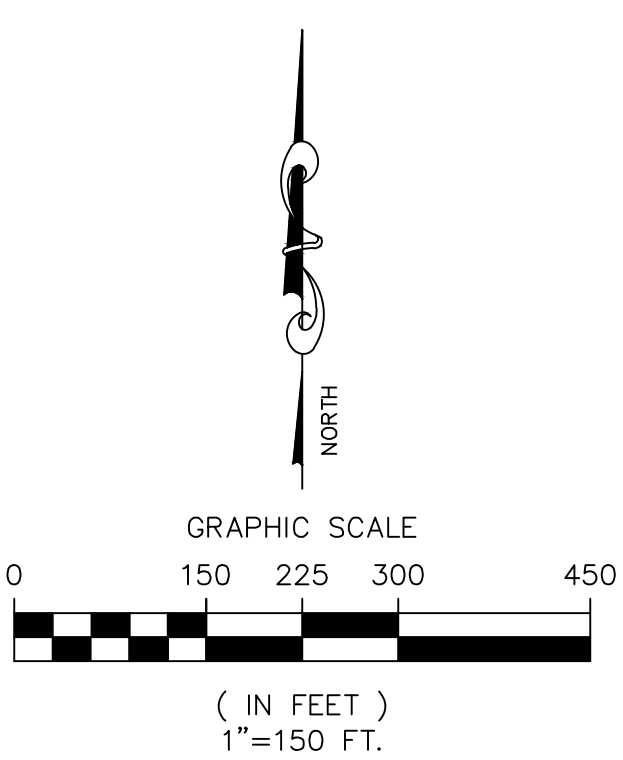
**SHEET  
6 OF 8**

PLANS PREPARED FOR:  
 FOX DEVELOPMENT/ SUPER AGGREGATES  
 PHILLIP BROWN  
 5435 BULL VALLEY RD. STE. 330  
 MCHENRY, IL 60050  
 EMAIL: PHILLIPW.BROWN@HOTMAIL.COM  
 PHONE: (815) 385 - 8000 EXT. 21



SITE BM F.I.P. 1/2"  
ELEV: 786.81 (NAVD88)

**PROPOSED LAKE**  
NORMAL WATER LEVEL=781.00  
43.45 ACRE LAKE



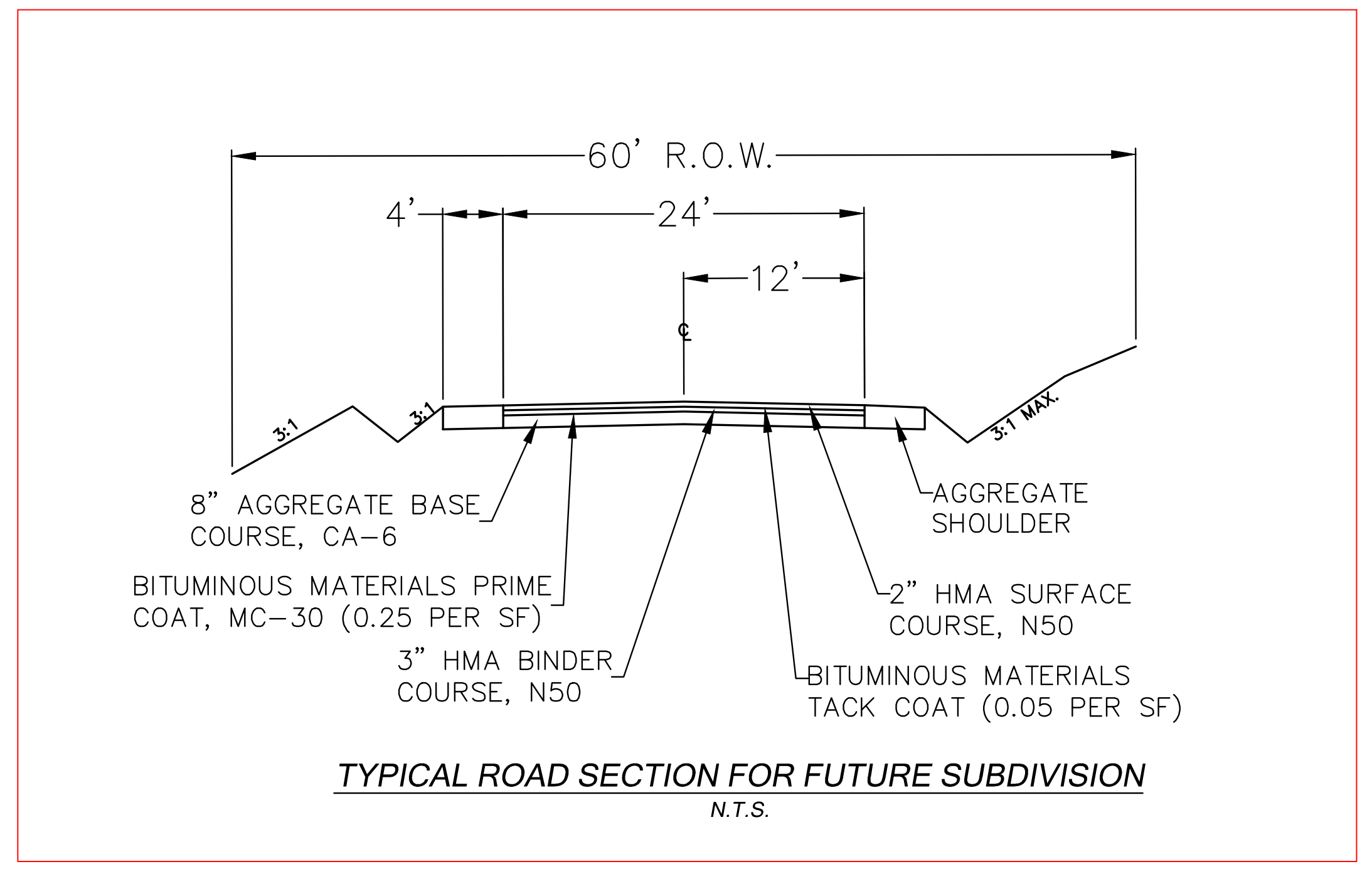
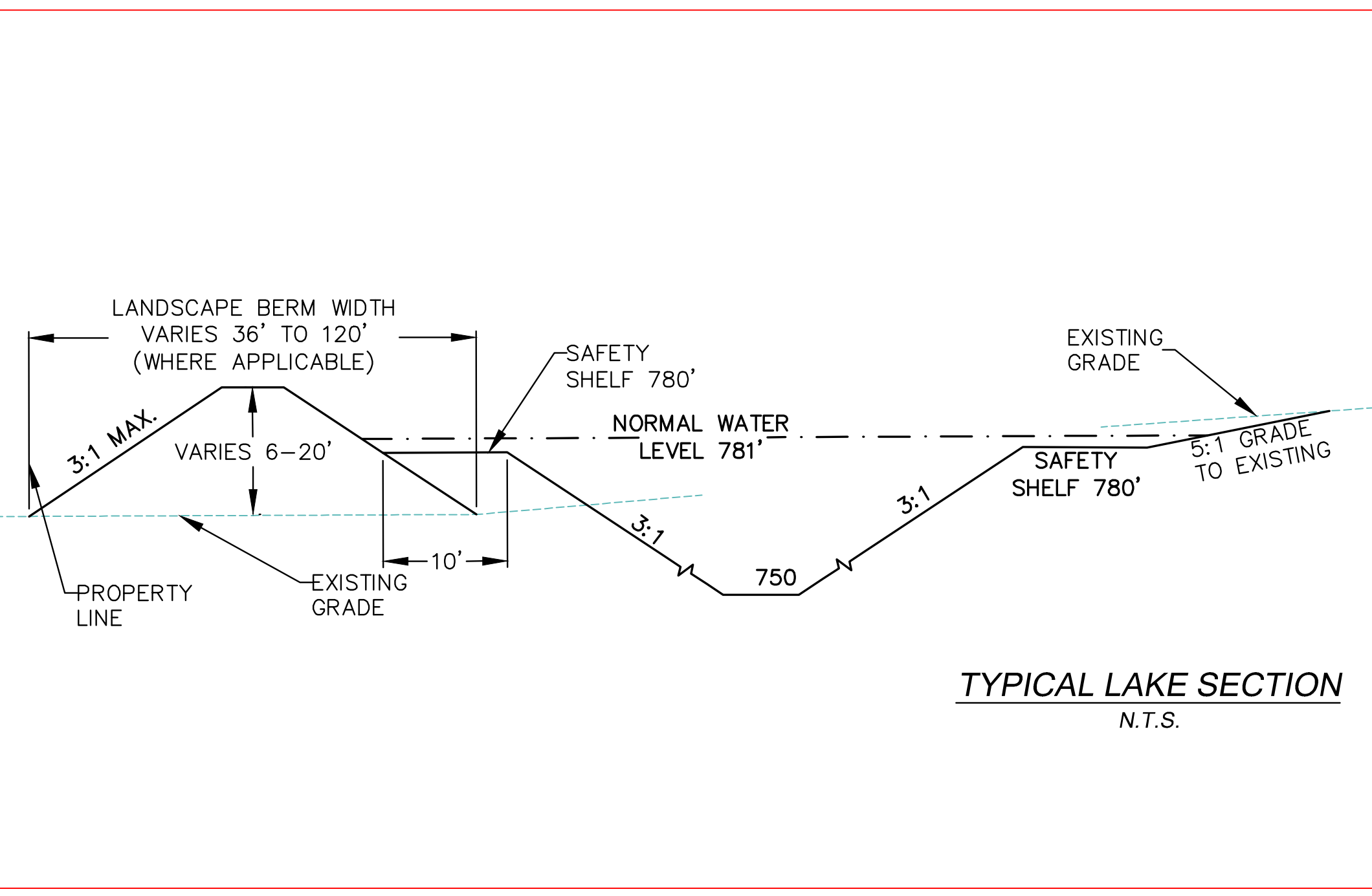
**POLITICAL & SERVICE DISTRICTS**  
SPRING GROVE FIRE PROTECTION DISTRICT  
NIPPERSINK SCHOOL DISTRICT No. 2 (RICHMOND GRADE K-5)  
RICHMOND-BURTON COMMUNITY HIGH SCHOOL DISTRICT No. 157  
SPRING GROVE POST OFFICE  
NIPPERSINK LIBRARY DISTRICT  
SPRING GROVE POLICE DEPARTMENT  
CURRENTLY ZONED: A-1 (MCHEERY COUNTY)

- GENERAL NOTES:**
1. THERE SHALL BE A MINIMUM OF 1.00% PITCH TO PROPOSED PONDS WITH TOPSOIL.
  2. FINAL TOPOGRAPHY MAY VARY FROM SHOWN CONTOURS BUT WILL GENERALLY CONFORM TO SLOPING INDICATED.
  3. SIZE, LOCATION, AND FINAL CONFIGURATION OF LAKE AND DETENTION PONDS MAY VARY FROM CONFIGURATIONS SHOWN.
  4. NO OFFSITE RELEASE IS PROPOSED. ALL ONSITE RUNOFF WILL DRAIN TO LAKE AND DETENTION BASIN.
  5. THE NORMAL WATER ELEVATION OF THE LAKE AND BASIN ARE A FUNCTION OF THE NATURAL WATER TABLE AND MAY VARY SEASONALLY.
  6. THE RECLAMATION PLAN REPRESENTS A REASONABLE ESTIMATION OF THE FUTURE DEVELOPMENT OF THE PROPERTY BASED ON THE BEST AVAILABLE DATA AT THE TIME OF CREATION OF THIS PLAN. RESULTANT SOIL CONDITIONS UPON THE COMPLETION OF THE MINING PHASE MAY NECESSITATE CHANGES TO THE PROPOSED RECLAMATION PLAN.
  7. WATER SUPPLY WILL BE SERVED BY INDIVIDUAL WELLS.
  8. SEWAGE DISPOSAL SYSTEMS WILL BE BY INDIVIDUAL SEPTIC SYSTEMS OR MUNICIPAL SANITARY TREATMENT SYSTEM.
  9. ALL INTERSECTION ROAD CURB RADII TO BE 40' BACK OF CURB.
  10. ALL ROAD RIGHT-OF-WAYS SHALL BE 60'
  11. DK ENVIRONMENTAL SERVICES INC. PROVIDED WETLAND & WATERBODY DELINEATION REPORT.
  12. ALL UTILITY EASEMENTS ARE SEPTIC RESTRICTED.
  13. BASED UPON FIRM MAP, COMMUNITY PANEL NO. 170732 0112 - J. MAP REVISED NOVEMBER 16, 2006. 100 YEAR FLOOD PLAIN EXISTS.
  14. REFER TO HOMEOWNERS ASSOCIATION COVENANTS AND RESTRICTIONS FOR MAINTENANCE OF STORM WATER AREA & CONTROL SYSTEMS. A DORMANT & SPECIAL SERVICE AREA (SSA) WILL BE CREATED TO ENSURE THE MAINTENANCE OF THE STORMWATER DRAINAGE AREAS. THIS SSA WILL BE RECORDED PRIOR TO RECORDING OF FINAL PLAT.
  15. BOUNDARY INFORMATION PROVIDED BY ZAHN & ASSOCIATES LAND SURVEYORS FIRM NO. 184003386 DATED MARCH 3, 2022.
  16. TOPOGRAPHY TAKEN FROM ELEVATIONS SHOT BY SHMITT ENGINEERING ON NOVEMBER, 17 2022

**LEGAL DESCRIPTION**

**TRACT 2:**  
THE WEST HALF OF THE NORTH EAST QUARTER OF SECTION 29, EXCEPTING THEREFROM A TRACT DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID WEST HALF OF THE NORTH EAST QUARTER; RUNNING THENCE WEST ALONG THE EAST AND WEST QUARTER SECTION LINE 60 RODS; THENCE NORTH PARALLEL WITH THE NORTH AND SOUTH QUARTER SECTION LINE, 32 RODS; THENCE EAST PARALLEL WITH SAID EAST AND WEST QUARTER SECTION LINE, 20 RODS; THENCE NORTH PARALLEL WITH SAID NORTH AND SOUTH QUARTER SECTION LINE, 36 1/2 RODS; THENCE EAST PARALLEL WITH SAID EAST AND WEST QUARTER SECTION LINE, 20 RODS; THENCE NORTH PARALLEL WITH SAID NORTH AND SOUTH QUARTER SECTION LINE, 91 1/2 RODS TO THE NORTH LINE OF SAID SECTION; THENCE EAST ALONG SAID NORTH LINE, 20 RODS TO THE NORTH EAST CORNER OF SAID WEST HALF OF THE NORTH EAST QUARTER; THENCE SOUTH 160 RODS TO THE PLACE OF BEGINNING; ALSO EXCEPTING THEREFROM THAT PART DESCRIBED AS FOLLOWS: COMMENCING AT AN IRON PIPE 1509.75 FEET SOUTH OF AND 330.0 FEET WEST OF THE NORTHEAST CORNER OF SAID WEST 1/2 OF THE NORTHEAST 1/4; THENCE WEST PARALLEL WITH THE NORTH LINE OF SAID NORTHEAST 1/4 4330.00 FEET; THENCE NORTH PARALLEL WITH THE EAST LINE OF SAID WEST 1/2 OF THE NORTHEAST 1/4 264.00 FEET; THENCE EAST PARALLEL WITH THE NORTH LINE OF SAID NORTHEAST 1/4 330.00 FEET; THENCE SOUTH PARALLEL WITH THE EAST LINE OF SAID WEST 1/2 OF THE NORTHEAST 1/4, 264.00 FEET TO THE PLACE OF BEGINNING; ALSO EXCEPTING THEREFROM THAT PART DESCRIBED AS FOLLOWS: COMMENCING AT A POINT ON THE SOUTH LINE OF SAID NORTHEAST 1/4, A DISTANCE OF 990 FEET WEST OF THE SOUTHWEST CORNER OF THE WEST 1/2 OF SAID NORTHEAST 1/4; THENCE NORTH PARALLEL WITH THE WEST LINE OF SAID NORTHEAST 1/4 A DISTANCE OF 528.0 FEET; THENCE EAST PARALLEL WITH THE SOUTH LINE OF SAID NORTHEAST 1/4 A DISTANCE OF 330.0 FEET THENCE NORTH PARALLEL WITH THE WEST LINE OF SAID NORTHEAST 1/4, A DISTANCE OF 272.00 FEET; THENCE WEST PARALLEL WITH THE SOUTH LINE OF SAID NORTHEAST 1/4 A DISTANCE OF 490.0 FEET; THENCE SOUTH PARALLEL WITH THE WEST LINE OF SAID NORTHEAST 1/4, A DISTANCE OF 800.08 FEET TO THE SOUTH LINE OF SAID NORTHEAST 1/4; THENCE EAST ALONG SAID SOUTH LINE A DISTANCE OF 160.0 FEET TO THE PLACE OF BEGINNING;

**TRACT 3:**  
THE EAST HALF OF THE NORTH WEST QUARTER OF SAID SECTION 29, EXCEPTING THEREFROM A TRACT OF LAND DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE EAST AND WEST QUARTER SECTION LINE 20.11 1/4 CHAINS EAST OF THE QUARTER POST ON THE WEST SIDE OF SAID SECTION, SAID POINT BEING THE SOUTH WEST CORNER OF THE SAID EAST HALF OF THE NORTH WEST QUARTER; RUNNING THENCE NORTH ALONG THE EIGHTY LINE, 17 CHAINS, 12 1/2 LINKS; THENCE EAST 10 CHAINS, 18 LINKS; THENCE SOUTH 30 MINUTES EAST, 17 CHAINS AND 30 LINKS TO SAID EAST AND WEST QUARTER SECTION LINE; THENCE NORTH 89 DEGREES WEST ALONG SAID EAST AND WEST QUARTER SECTION LINE 10 CHAINS AND 33 LINKS TO THE PLACE OF BEGINNING; ALL IN TOWNSHIP 46 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN MCHEERY COUNTY, ILLINOIS.



Drawn By <b>ACT</b> Checked By <b>AMS</b> Date <b>06/10/2024</b> Scale <b>1" = 150 Ft.</b> Job Number <b>220907</b>	 215 West Calhoun Street, Woodstock, Illinois 60098 Phone (815) 337-7810 Fax (815) 337-7812 www.alschmittengineering.com	PARADISE LAKE DEVELOPMENT 801 MAIN STREET ROAD, SPRING GROVE, IL 60081 P.I.N.: 05-29-326-004  <b>RECLAMATION PLAN</b>		Permit Number Planning	Permit Number Health	REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DATE	DESCRIPTION					PLANS PREPARED FOR: FOX DEVELOPMENT/ SUPER AGGREGATES PHILLIP BROWN 5435 BULL VALLEY RD. STE. 330 MCHEERY, IL 60050 EMAIL: PHILLIPV.BROWN@HOTMAIL.COM PHONE: (815) 385 - 8000 EXT. 21
				DATE	DESCRIPTION								
<b>SHEET 7 OF 8</b>													

