

## DH071/DR071

# 75

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HEF

#### **General Features**

The model DH071 or DR071 grinder pump station is a complete unit that includes: the grinder pump, check valve, HDPE (high density polyethylene) tank, controls, and alarm panel. A single DH071 or DR071 is a popular choice for one, average single-family home and can also be used for up to two average singlefamily homes where codes allow and with consent of the factory.

- Rated for flows of 700 gpd (2650 lpd)
- 70 gallons (265 liters) of capacity Indoor or outdoor installation
- Standard outdoor heights range from 61 inches to 160 inches

The DH071 is the "hardwired," or "wired," model where a cable connects the motor controls to the level controls through watertight penetrations.

The DR071 is the "radio frequency identification" (RFID), or "wireless," model

that uses wireless technology to communicate between the level controls and the motor controls.

#### **Operational Information**

Motor 1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

#### Inlet Connections

4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

#### Discharge Connections

Pump discharge terminates in 1.25-inch NPT female thread. Can easily be adapted to 1.25-inch PVC pipe or any other material required by local codes.

#### Discharge

15 gpm at 0 psig (0.95 lps at 0 m) 11 gpm at 40 psig (0.69 lps at 28 m)

#### 7.8 gpm at 80 psig (0.49 lps at 56 m)

Accessories

E/One requires that the Uni-Lateral, E/One's own stainless steel check valve, be installed between the grinder pump station and the street main for added protection against backflow.

Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.

The Remote Sentry is ideal for installations where the alarm panel may be hidden NA0050P01 Rev D from view.



## E/One Sentry

Alarm Panel — Basic Package

#### Description

The E/One Sentry panels are custom designed for use with Environment One grinder pump stations. They can be configured to meet the needs of your application, from basic alarm indication to advanced warning of pending service requirements.

E/One Sentry panels are supplied with audible and visual high level alarms. They are easily installed in accordance with relevant national and local codes. Standard panels are approved by UL, CSA, CE and NSF to ensure high quality and safety.

The panel features a corrosion-proof, NEMA 4X-rated, thermoplastic enclosure. A padlock is provided to prevent unauthorized entry (safety front).

#### **Standard Features**

Circuit breakers, 240 or 120 VAC service Terminal blocks and ground lugs Audible alarm with manual silence Manual run feature and run indicator Redundant "Start" function with high level alarm

Conformal-coated alarm board (both sides) Alarm board overload protection

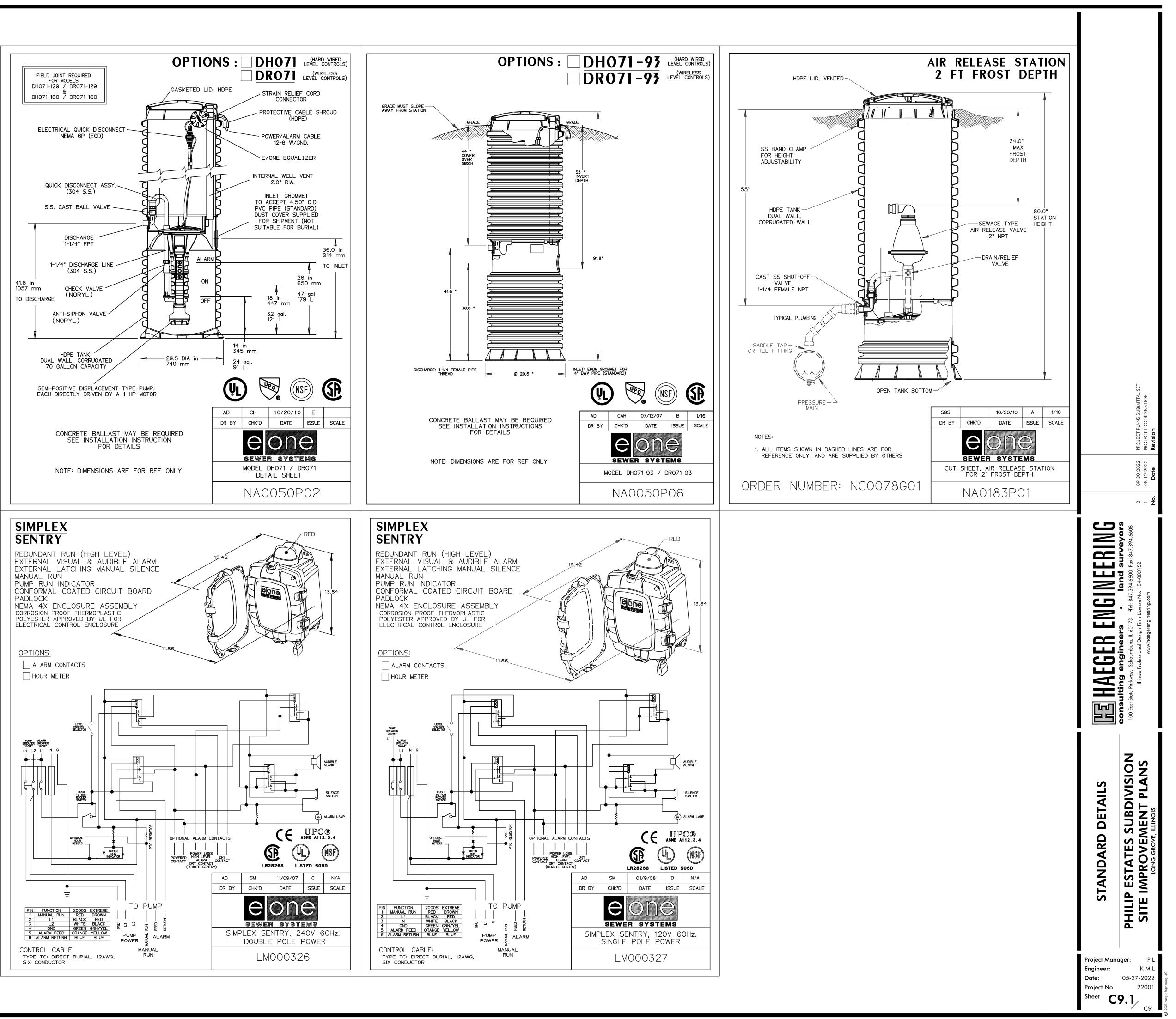
#### **Optional Features**

Contact group (dry, powered and Remote Sentry) Inner cover (dead front) Hour meter Generator receptacle with auto transfer GFCI Main service disconnect Brownout protection

Please consult factory for special applications.

NA0324P01 Rev. -

eone Sever Systems



## PHILIP ESTATES SUBDIVISION **STORMWATER POLLUTION PREVENTION PLAN** CUBA ROAD

OWNER: Philip Estates, LLC 8150 159th Street Orland Park, IL 60462

#### PREPARED BY:

Haeger Engineering LLC Illinois Prof. Design Firm #184-003152 100 E. State Parkway Schaumburg, IL 60173 Tel: 847-394-6600 Fax: 847-394-6608 www.haegerengineering.com

VILLAGE OF LONG GROVE 3110 Old McHenry Road, Long Grove, IL 60047 Tel: 847-634-9440 Fax: 847-634-9408

#### BENCHMARKS:

Source Benchmark:

Lake County Benchmark 6-20a, Being A Chiseled Square On Top Of The East End Of A Culvert Located At The Northeast Corner Of A Driveway And East Cuba Road Approximately 1.4 Miles West Of Old Mchenry Road. Measured NAVD 1988 Datum Elevation = 740.41 (Record NGVD 1929 Datum Elevation = 740.46)

Lake County Benchmark 6-20, Being A Railroad Spike In The North Face Of A Utility Pole On South Side Of Cuba Road Approximately 1.05 Miles West Of Old Mchenry Road And Being The First Utility Pole West Of Canterbury Drive. Measured NAVD 1988 Datum Elevation = 756.38 (Record NGDV 1929 Datum Elevation = 756.66)

Site Benchmark:

BM #1: (Same As Source Bm 6-21 Above.) NAVD 1988 Elevation = 756.38

BM #2: Railroad Spike In Fourth Utility Pole West Of Canterbury Drive On The South Side Of East Cuba Road. NAVD 1988 Elevation = 755.36

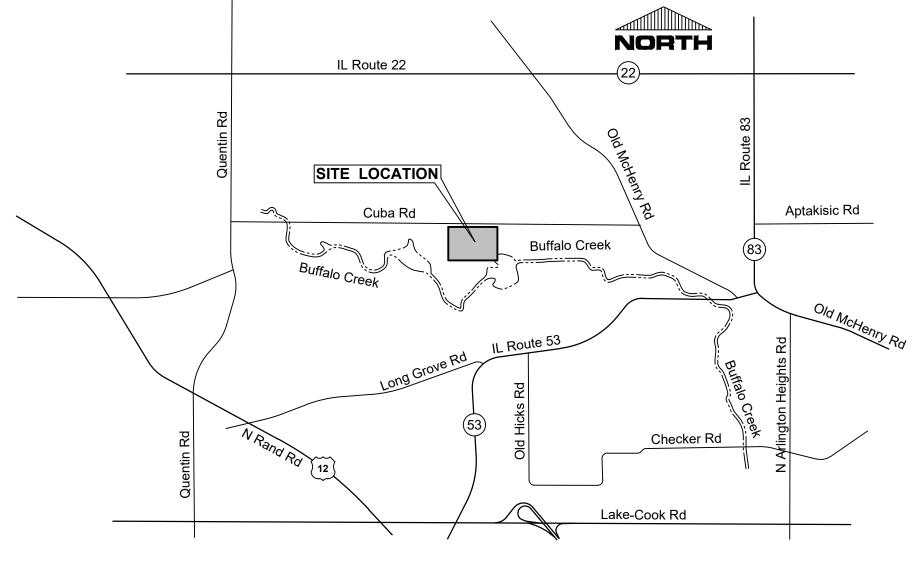


Know what's **below.** Call before you dig.

Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

Note:

## SECTION 26 TOWNSHIP 43 NORTH RANGE 10 EAST LONG GROVE, ILLINOIS COUNTY



LOCATION MAP Not To Scale

INDEX TO STORM WATER POLLUTION PREVENTION PLAN SHEETS
DESCRIPTION
SWPPP TITLE SHEET SWPPP GENERAL NOTES AND SPECIFICATIONS STORMWATER POLLUTION PREVENTION PLAN SWPPP DETAILS
-

	<ul> <li>09-30-2022 PROJECT PLANS SUBMITTAL SET</li> <li>08-12-2022 PROJECT COORDINATION</li> <li>Date Revision</li> </ul>
NGINE	<b>consulting engineers</b> • <b>land surveyors</b> 100 East State Parkway, Schaumburg, IL 60173 •Tel: 847.394.6600 Fax: 847.394.6608 Illinois Professional Design Firm License No. 184-003152 <sup>2</sup> www.haegerengineering.com No.
SWPPP TITLE SHEET	PHILIP ESTATES SUBDIVISION SITE IMPROVEMENT PLANS LONG GROVE, ILLINOIS
Project Mana Engineer: Date: Project No. Sheet	ager: PL KML 05-27-2022 22001 <b>C-1</b> C9

#### Stormwater Pollution Prevention Plan

This plan has been prepared to comply with the provisions of the NPDES Permit Number issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner's Name

Signature

Name of Firm/Company

I. Site Description:

- A. The following is a description of the project location:
- The project is located on Cuba Road a in Long Grove, IL in Sections 26 Township 43 North, Range 10 East all in Lake County Illinois (See Location Map on Title Sheet for additional information).
- B. The following is a description of the construction activity which is the subject of this plan:
- Redevelopment of the entire site to accommodate a residential development with drive aisles, parking, and related improvements to utilities including storm sewer, sanitary sewer, and water
- C. 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 grubbing, excavation and grading:
- Exact phasing and sequencing has yet to be determined. Generally, trees will be removed as required, and then clearing and grubbing will occur. Next, mass grading will commence for the roadway construction. Then the underground utilities will be constructed. Finally, pavement, etc. will be constructed, followed by the installation of landscaping.

#### D. The total area of the construction site is estimated to be approximately ± 35 acres

- E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:
- The weighted runoff coefficient after completion of all construction activities is approximately 0.68.
- F. The following is a description of the soil types found at the project site followed by information regarding their erosivity:
- Please refer to the geotechnical report prepared by \_\_\_\_\_
- G. The following is a description of potentially erosive areas associated with this project:
- Areas with side slopes exceeding 3:1 slopes. Although slopes in excess of 3:1 are not proposed, the Contractor shall monitor the slopes and provide stabilization and/or protection as necessary.
- H. The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

The soil disturbing activities consist of grading and general infrastructure improvements over the entire site. The Contractor shall be responsible for maintaining all disturbances within the site, and shall protect all off-site areas as needed.

- I. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.
- J. The following is a list of receiving water(s) and the ultimate receiving water(s), and aerial extent of vename acreage at the site. The location of the receiving waters can be found on the erosion and sediment control plans:
- The closest receiving water is the Buffalo Creek.
- K. The following pollutants of concern will be associated with this construction project:
- Soil sediment and dust, and construction of bituminous pavement.

#### II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the contractor will be responsible for its implementation as indicated. The contractor shall provide to the resident engineer a plan for the implementation of the measures indicated. The contractor, and subcontractors, will notify the resident engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the permit. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

#### **A.Erosion and Sediment Controls**

- **1. Stabilized 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. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(A)(1)(a) and II(A)(3), 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 7 days after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of 14 or more calendar days.
- a. Where the initiation of stabilization measures by the 7th 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 Stabilization Practices will be used for this project: Temporary blanket & seeding, permanent seeding, as shown on the Plans.

- Describe how the Stabilization Practices listed above will be utilized: Seed & blanket.
- See Storm Water Pollution Prevention (SWPP) Plan. SWPP Plan shall be modified as necessary by the Contractor during construction to prevent sediment from leaving the site or entering the offsite storm sewer.
- 2. 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 areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following Structural Practices will be used for this project: Perimeter erosion control (silt) fence.

Describe how the Structural Practices listed above will be utilized:

See Storm Water Pollution Prevention (SWPP) Plan. SWPP Plan shall be modified as necessary by the Contractor during construction to prevent sediment from leaving the site or entering the offsite wetland.

3. Storm Water Management: Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water 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.

- a. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).
- The practices selected for implementation were determined on the basis of the technical guidance in Section 59-8 (Erosion and Sediment Control) in Chapter 59 (Landscape Design and Erosion Control) of the Illinois Department of Transportation Bureau of Design and Environment Manual. If practices other than those discussed in Section 59-8 are selected for implementation or if practices are applied to situations different from those covered in Section 59-8, the technical basis for such decisions will be explained below.
- b. 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 and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of Storm Water Management Controls: Installation of a storm sewer system. All inlets will be protected with silt baskets.

#### 4. Other Controls:

a. Vehicle Entrances and Exits - Stabilized construction entrances and exits must be constructed to prevent tracking of sediments onto roadways.

The contractor will provide the resident engineer with a written plan identifying the location of stabilized entrances and exits and the procedures (s)he will use to construct and maintain them

- b. Material Delivery, Storage, and Use The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:
- All products delivered to the project site must be properly labeled. • Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.
- A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets
- of plastic to prevent precipitation from coming in contact with the products being stored. • Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such material shall be elevated with wood blocks to minimize contact with storm water runoff.
- Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.
- c. Stockpile Management BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:
- Perimeter Erosion Barrier Temporary Seeding
- Temporary Mulch
- Plastic Covers Soil Binders
- Storm Drain Inlet Protection
- The contractor will provide the resident engineer with a written plan of the procedures (s)he will

use on the project and how they will be maintained.

- d. Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- e. The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- f. The contractor shall provide a written and graphic plan to the resident engineer identifying
- 5. Approved State or Local Laws

The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual, 1995. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under permit ILR10 incorporated by reference and are enforceable under this permit even if they

See Storm Water Pollution Prevention (SWPP) Plan. SWPP Plan shall be modified as necessary by the Contractor during construction to prevent sediment from leaving the site or entering the offsite storm sewer.

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective

measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project. All disturbed areas shall be graded to keep runoff and sediment on-site to the greatest extent possible. Site shall be graded in such a matter to direct runoff to storm structures with catch-all inlet protection. Contractor shall maintain, replace, clean, and add additional measures as needed during the progression of construction to prevent sediment, debris, etc from leaving the site.

#### **IV.** Inspections:

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- A.Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), borrow sites, and waste sites shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, 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 off site sediment tracking.
- B.Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 1/2 hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.
- C.A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.
- D.If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the resident engineer shall notify the appropriate IEPA Field Operations Section office by email at: epa.swnoncomp@illinois.gov, telephone or fax within 24 hours of the incident. The resident Engineer shall then complete and submit an "Incidence of Noncompliance" (ION) report for the identified violation within 5 days of the incident. The resident engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.
- The Incidence of Non-Compliance shall be mailed to the following address:

## III. Maintenance:

are not specifically included in the plan. plans or storm water management plans approved by local officials:

Description of procedures and requirements specified in applicable sediment and erosion site

Plot Date: Mar 24, 2023 - 9:34am Plotted By: gil-r

where each of the above areas will be located and how they are to be managed.

Illinois Environmental Protection Agency Division of Water Pollution Control Attn: Compliance Assurance Section 1021 North Grand East Post Office Box 19276 Springfield, Illinois 62794-9276

V.Non-Storm Water Discharges:

- Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.
- A.Spill Prevention and Control BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.

B. Concrete Residuals and Washout Wastes - The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water: • Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete

- trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located. • The contractor shall have the location of temporary concrete washout facilities approved
- by the resident engineer All temporary concrete washout facilities are to be inspected by the contractor after each
- use and all spills must be reported to the resident engineer and cleaned up immediately. Concrete waste solids/liquids shall be disposed of properly.

C.Litter Management - A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.

D. Vehicle and Equipment Cleaning - Vehicles and equipment are to be cleaned in designated areas only, preferably off site.

E. Vehicle and Equipment Fueling - A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor shall inform the resident engineer how (s)he will be informing his/her employees of these BMPs (i.e. signs, training, etc.). Below are a few examples of these BMPs:

- Containment
- Spill Prevention and Control Use of Drip Pans and Absorbents
- Automatic Shut-Off Nozzles
- Topping Off Restrictions
- Leak Inspection and Repair

F. Vehicle and Equipment Maintenance - On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

#### VI. Failure to Comply:

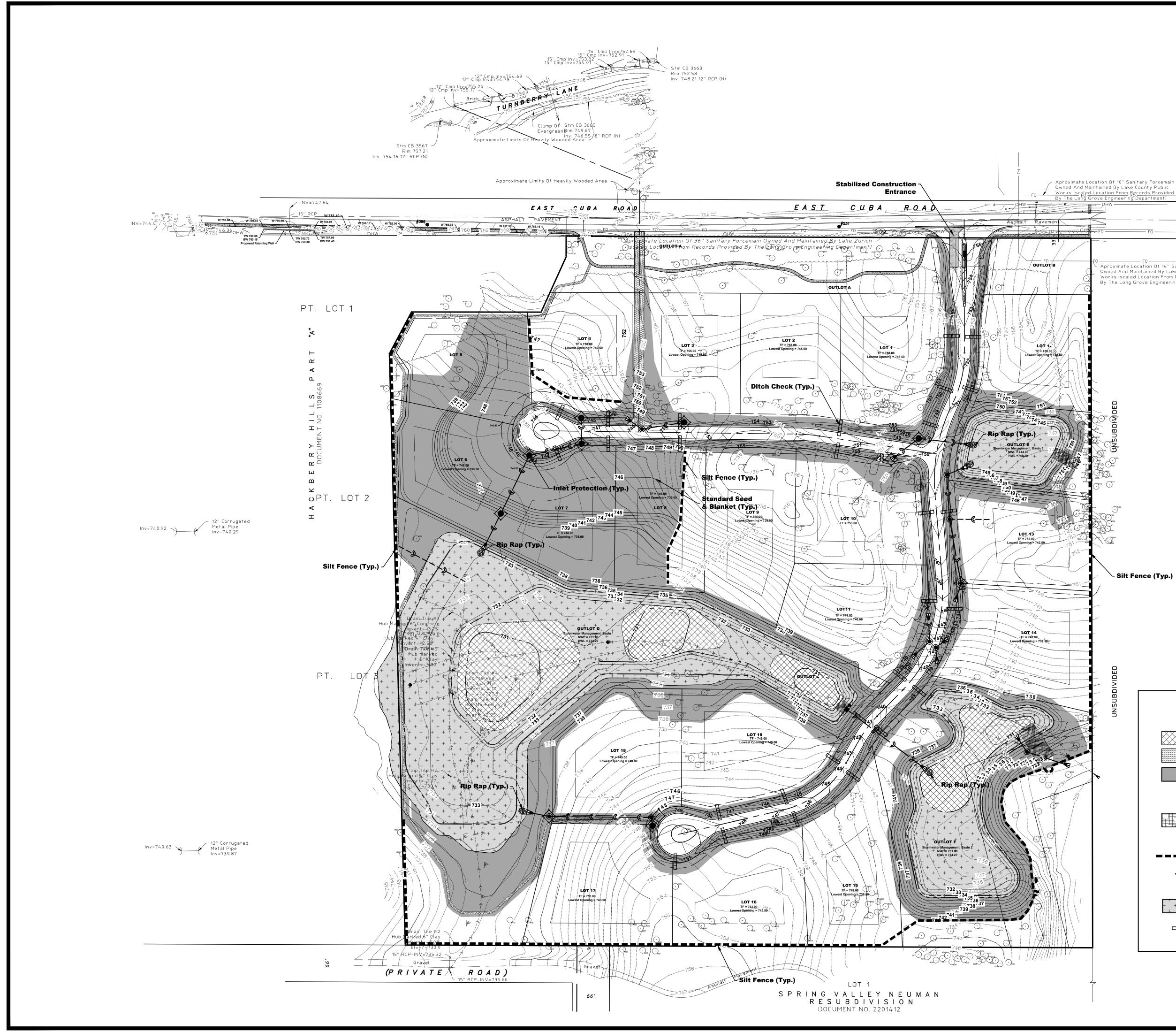
Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.

#### SUPPLEMENTARY EROSION CONTROL NOTES

- 1. Prior to commencement of construction, on sites that will ultimately result in the disturbance of one (1) acre or more, the Contractor shall be responsible for obtaining a copy of the notice of coverage letter and the IEPA National Pollutant Discharge Elimination System (NPDES) General Permit ILR10 from the Owner. The Owner together along with the Contractor and/or other entities if so designated by the Owner, shall be responsible for ensuring that all the requirements of the General Permit and the Storm Water Pollution Prevention Plan (SWPPP) including but not limited to the installation, maintenance as well as the installation of any additional measures necessary that may be required, and inspections of the soil erosion and sediment control measures as well as completing all of the necessary applicable certifications, reports, logs, etc. Inspections are required to be performed at least once every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches of rain (or equivalent snowfall) or greater. The SWPPP and all the required paperwork shall be kept on-site and be organized and ready for viewing.
- 2. All erosion control measures are to be installed prior to any demolition, earth moving activities or other disturbance. 3. Contractor to establish a temporary stabilized construction entrance as well as install all
- perimeter fencing prior to the start of any clearing or grading activities. 4. Temporary gravel stabilized construction entrance shall be maintained, adjusted, and/or relocated as necessary to prevent mud and other debris from being tracked onto adjacent public roadways. Any mud or other debris that is tracked onto a public road shall be properly
- removed as soon as practical, but before the end of each working day. 5. Disturbed areas shall be stabilized by seeding within seven (7) calendar days of the completion of disturbance. If construction activity on a portion of the site is to resume within fourteen (14) calendar days of the end of the last disturbance, then stabilization measures do not have to be initiated on that portion of the site by the 7th day after the completion of said disturbance. Areas with slopes 3H:1V or greater shall be stabilized with erosion control blanket or mat in addition to seeding.
- 6. The Contractor shall provide adequate planning and supervision during the project construction period for implementing construction methods, processes and cleanup procedures necessary to prevent water pollution and control erosion.
- 7. No sediment or debris shall be allowed to enter the existing storm sewer system or flow 8. All temporary and permanent erosion and sedimentation control measures shall be
- maintained, repaired and/or replaced as necessary to ensure effective performance. If required, a designated erosion control inspector shall inspect all measures every seven (7) calendar days, or within twenty-four (24) hours of a 0.5-inch rain event or equivalent snowfall, and report where items are in non-compliance. Otherwise, the Contractor shall be responsible for the inspection as well as maintenance of all measures and shall be subject to the terms of Federal, State, and local requirements.
- All temporary erosion and sedimentation control measures are to remain in place and be functioning until final stabilization. After final stabilization, the Contractor is to remove and properly dispose of all erosion and sedimentation measures according to Jurisdictional Agency requirements within thirty (30) days. All disturbed areas or trapped sediment that accumulates from said measures shall be permanently stabilized.
- 10. Topsoil stockpiles shall not be located in flood prone areas or buffers protecting wetlands, or waters of the United States or County. Stockpiles shall be protected from erosion by installing silt fence around the perimeter of the stockpile(s). Stockpiles shall be seeded within seven (7) calendar days of completion.
- 11. If dewatering services are used, adjoining properties and discharge locations shall be protected from erosion. Discharges shall be routed through an effective sediment control measure (i.e., sediment Trap, sediment Basin, or other appropriate measure).
- 12. Extreme caution shall be taken by the Contractor to prevent erosion and siltation during construction. The Contractor shall inspect catch basins and clean out if necessary. The contractor shall use silt/erosion control fence staked in place to prevent siltation of all drainage structures.
- 13. The Contractor shall assume responsibility for maintenance of all soil erosion and sedimentation control measures during and after construction. However, the Contractor shall not transfer these improvements for the purpose of maintenance until they have completed with the above and until they have received final inspection and approval from the Jurisdictional Agency or designated erosion control inspector and a Notice of Termination has been filed (NOT).
- 14. The work shall generally follow the following typical Construction Sequencing: a. Installation of the soil erosion and sediment control (SE/SC) measures: a.1. Selective vegetation removal for silt fence installation
  - a.2. Silt fence installation
- a.3. Stabilized construction entrance b. Tree removal where necessary
- c. Strip and stockpile topsoil and mass grade the site
- d. Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope) e. Construction of storm sewer system and other utilities, along with associated inlet protection
- f. Temporary stabilization of areas that have reached temporary grade
- g. Building construction h. Parking lot construction
- i. Permanently stabilize site with topsoil, seed and blanket j. Remove all temporary SE/SC measures after the site is stabilized with vegetation

Owner/Contractor Certification Statement								
•	/ater Pollution Prevention Plan for Preserves of Kildeer at Kemper Lakes project, in issued by the Illinois Environmental Protection Agency.							
	the terms of the general National Pollutant Discharge Elimination System (NPDES) ischarges associated with industrial activity from the construction site identified as part							
	information and a minera stated in the Otema Water Dall time Drawnting Directory							
	<ul> <li>information and requirements stated in the Storm Water Pollution Prevention Plan for documentation required to be in compliance with the ILR10 and Storm Water Pollution o these documents as necessary.</li> </ul>							
the above mentioned project; I have provided all Prevention Plan and will provide timely updates t	documentation required to be in compliance with the ILR10 and Storm Water Pollution o these documents as necessary.							
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	PROJECT PLANS SUBMITTAL SET PROJECT COORDINATION <b>Revision</b>
	09-30-2022 08-12-2022 <b>Date</b>
NGINE	Consulting engineers • land surveyors 100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608 Illinois Professional Design Firm License No. 184-003152 2 www.haegerengineering.com No
SWPPP GENERAL NOTES AND SPECIFICATIONS	PHILIP ESTATES SUBDIVISION SITE IMPROVEMENT PLANS LONG GROVE, ILLINOIS
Project Mana Engineer: Date: Project No. Sheet <b>EC</b>	nger: PL KML 05-27-2022 22001 C-2



Scale: 1" = 80' D ENGINEERIN( HAEGER Const Const STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PHILIP ESTATES SUBDIVISION SITE IMPROVEMENT PLANS

Works (scaled Location From Records Provided

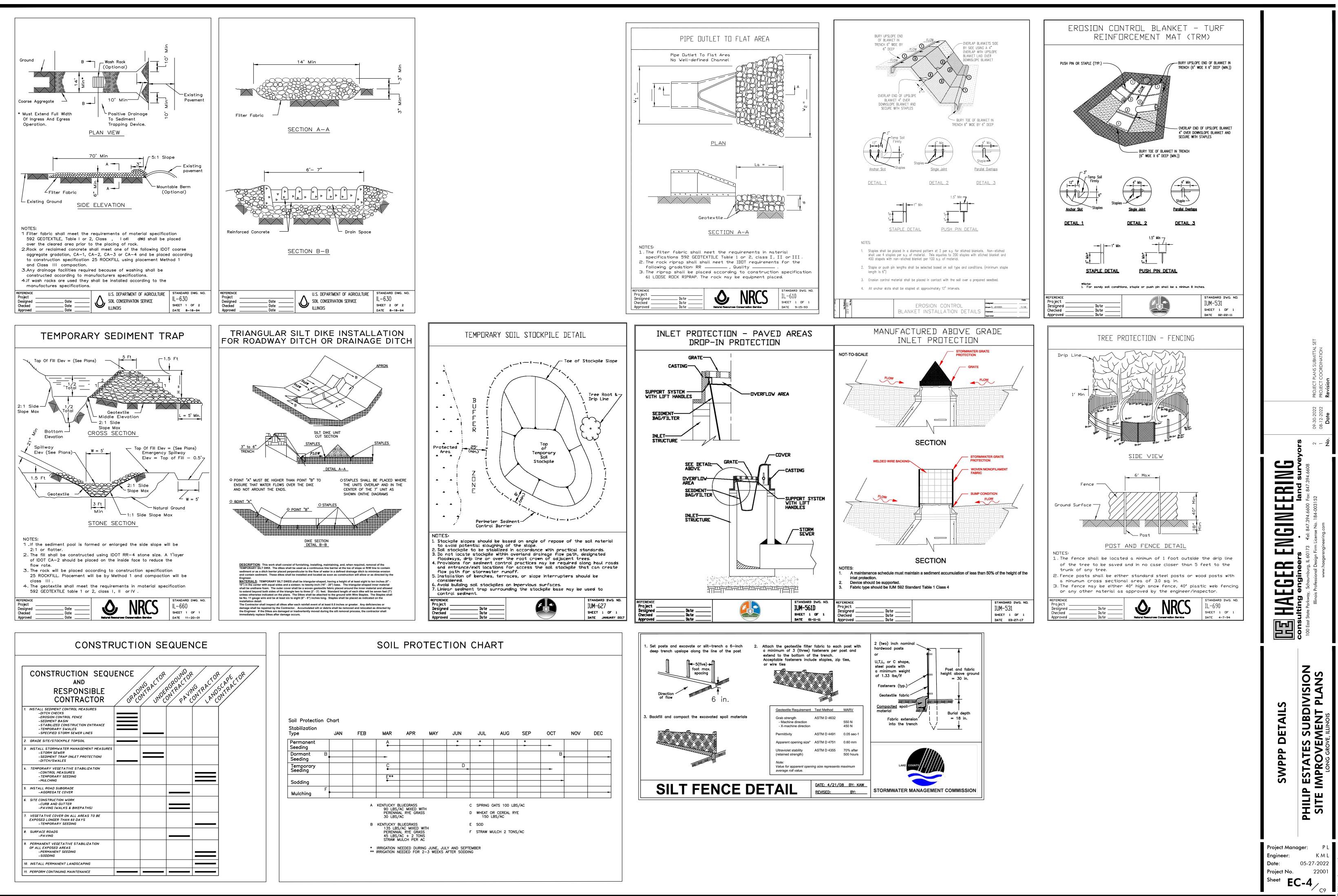
Aproximate Location Of 14" Sanitary Forcemain Owned And Maintained By Lake County Public Works (scaled Location From Records Provided By The Long Grove Engineering Department)

 $\searrow$  Silt Fence (Typ.)

#### <u>L E G E N D</u> Temporary Silt Basin **Stabilized Construction Entrance** Standard Seed & Blanket • 6" Topsoil (min.) • IDOT Seed Mixture 2A • North American Green DS75 Blanket **Erosion blanket** North American Green Eronet P 300 or Equal **Silt Fence** Inlet Filter Basket See Landscape + + Plans Ditch Check

Project Manager: Engineer ΚM Date: 05-27-2022 Project No 22001 Sheet EC-3/

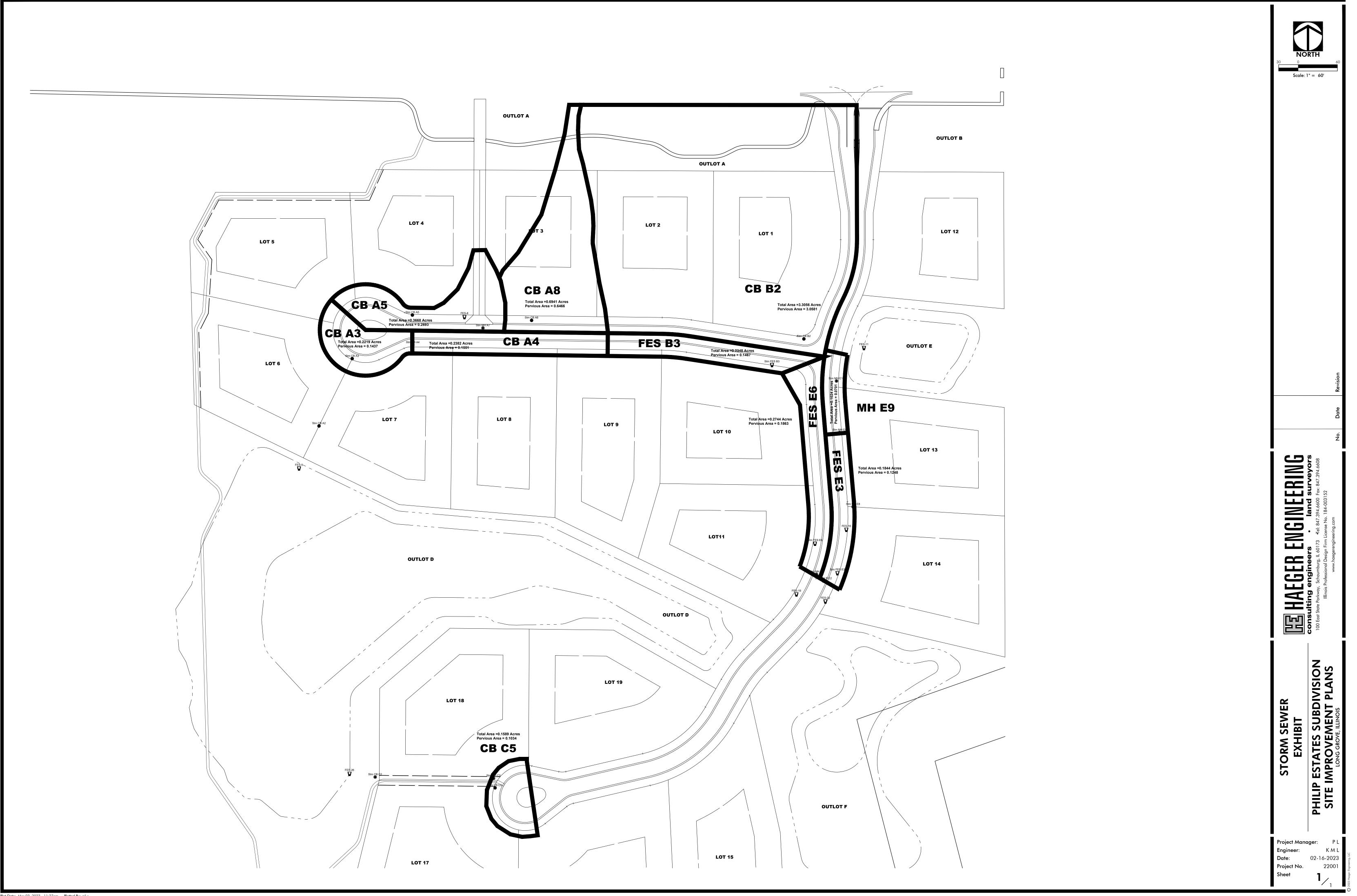
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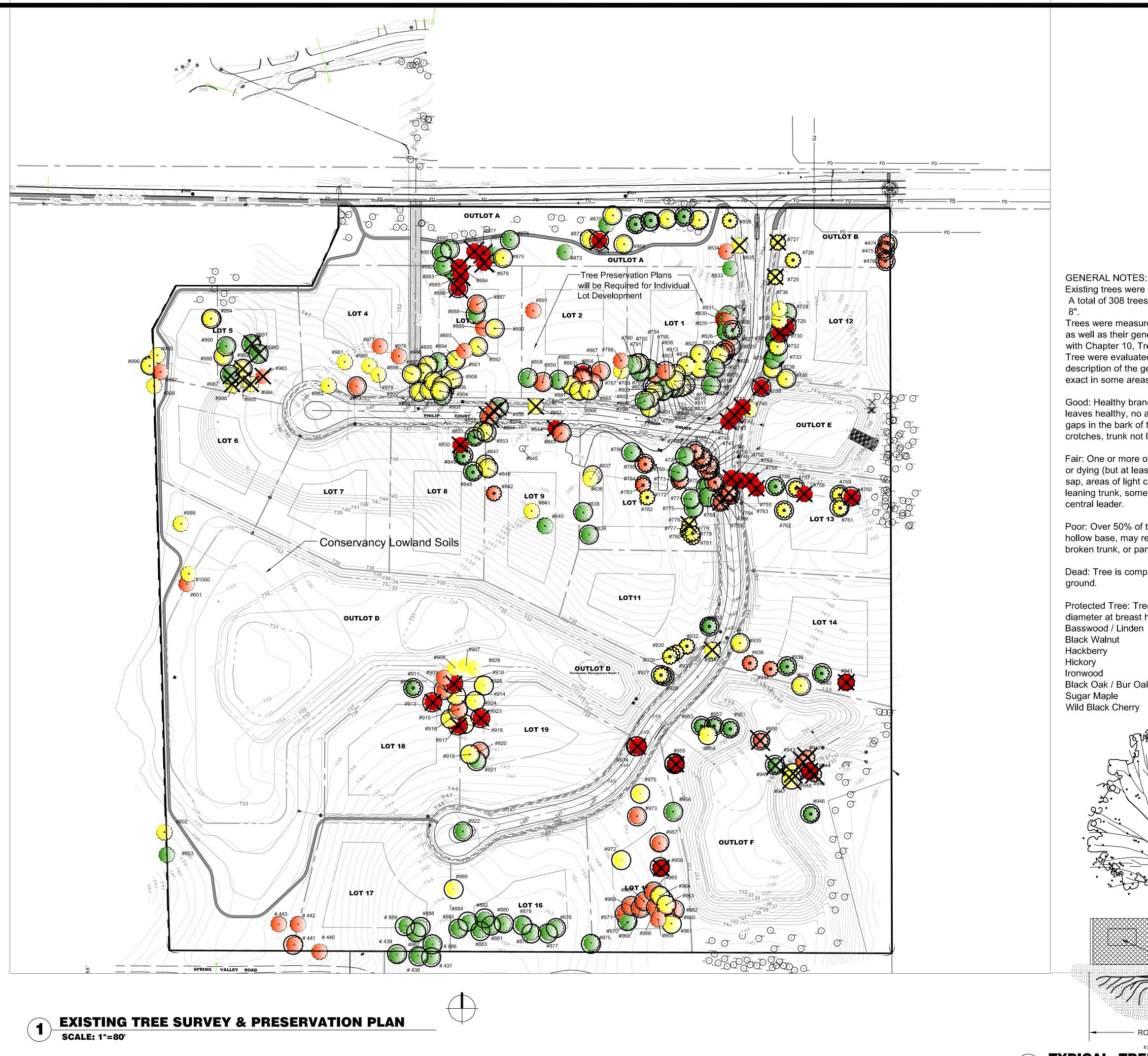


Plot Date: Mar 24, 2023 - 9:34am Plotted By: gil-r File Name: P:\2022\22001\Drawings\Final Engineering\22001 SWPPP.dwg

	STORM SEWER COMPUTATION SHEET															
Prepared By			Date			Return	Period	10-	/ear	Pro	ject Name					
Checked BY			Date							Jo	b Number					
STRUC	TURE	Н	DRAINAC (Ac		= ENT		x A	FLOW (Mi		ENSITY ur)	IOFF x A	ETER	сітү	VELC (f.p	DCITY .s.)	EWER %)
FROM	10	LENGTH (feet)	INCREMENT	TOTAL	RUNOFF COEFFICIENT	INCREMENT	TOTAL	INLET	SYSTEM	RAINFALL INTENSITY (Inche/Hour)	TOTAL RUNOFF Q = C x I x A (c.f.s)	PIPE DIAMETER (Inches)	FULL CAPACITY (c.f.s.)	FULL FLOWING	DESIGN	SLOPE OF SEWER (Percent %)
Stm CB A5	Stm CB A4	46	0.37	0.37	0.51	0.19	0.19	10	10	6.48	2.99	12	10.506	13.377	11.526	8.6957
Stm CB A4	Stm CB A3	95	0.24	0.61	0.55	0.132	0.322	10	10.06	6.47	3.84	12	3.655	4.654	5.271	1.0526
Stm CB A3	Stm CB A2	115	0.22	0.83	0.57	0.125	0.447	10	10.4	6.41	4.62	15	11.269	9.183	8.728	3.0435
Stm CB A2	FES-5	69	0	0.83	0	0	0.447	0	10.4	6.41	4.62	15	9.524	7.761	7.702	2.1739
Stm CB A8	Stm MH A7	75	0.69	0.69	0.39	0.272	0.272	10	10	6.48	1.76	12	4.114	5.238	5.034	1.3333
Stm MH A7	FES-8	34	0	0.69	0	0	0.272	0	10	6.48	1.76	12	6.408	8.159	6.962	3.2353
Stm FES B3	Stm CB B2	61	0.23	0.23	0.56	0.129	0.129	10	10	6.48	0.83	12	7.901	10.06	6.526	4.918
Stm CB B2	FES-11	93	3.31	3.54	0.4	1.309	1.437	30	30.1	3.82	5.48	18	10.892	6.164	6.174	1.0753
Stm MH E10	Stm MH E9	79	0.1	0.1	0.35	0.035	0.035	10	10	6.48	1.23	12	3.585	4.565	4.139	1.0127
Stm MH E9	Stm MH E8	116	0.1	0.2	0.53	0.053	0.088	10	10.29	6.43	1.57	12	2.339	2.978	3.193	0.431
Stm MH E8	FES-16	34	0	0.2	0	0	0.088	0	10.29	6.43	1.57	12	2.733	3.479	3.6	0.5882
Stm FES E6	Stm MH E5	50	0.27	0.27	0	0	0	10	10	6.48	0	12	7.558	9.623	0.04	4.5
Stm FES E3	Stm MH B E2	26	0.18	0.18	0.55	0.099	0.099	10	10	6.48	2.58	12	6.555	8.346	7.848	3.3846
Stm MH B E2	FES-22	29	0	0.18	0	0	0.099	0	10	6.48	2.58	12	6.311	8.036	7.632	3.1379
Stm CB C5	Stm MH C3	15	0.16	0.16	0.58	0.092	0.092	10	10	6.48	0.6	12	3.563	4.536	3.373	1
Stm MH C3	Stm CB C2	181	0	0.16	0	0	0.092	0	10	6.48	0.6	12	7.348	9.356	5.639	4.2541
Stm CB C2	FES-26	40	0	0.16	0	0	0.092	0	10	6.48	0.6	12	5.039	6.415	4.317	2

	COMBINED PIPE /NODE STORM SEWER REPORT																					
Pipe	Node		Draina	ge Area		Area	хC	Т	c	Rain	Known	Total	Сар			Pi	ipe	Inv.	Elev.	HGL	Elev	Rim
Up	Down	Len (ft)	Incr (ac)		Rnoff Coeff	Incr	Total	Inlet (min)	Sys (min)	(in/hr) Inty	Flow (cfs)	Flow (cfs)	Full (cfs)	Vel (ft/sc)	n Value	Size (in)	Slope (%)	Up (ft)	Down (ft)	Up (ft)	Down (ft)	Elev (ft)
Stm CB A5	Stm CB A4	46	0.37	0.37	0.51	0.19	0.19	10	10	6.48	1.76	2.99	10.51	11.53	0.013	12	8.7	744.5	740.5	744.87	741.48	744
Stm CB A4	Stm CB A3	95	0.24	0.61	0.55	0.132	0.322	10	10.06	6.47	1.76	3.84	3.66	5.27	0.013	12	1.05	740.5	739.5	741.48	740.37	744.5
Stm CB A3	Stm CB A2	115	0.22	0.83	0.57	0.125	0.447	10	10.4	6.41	1.76	4.62	11.27	8.73	0.013	15	3.04	739.5	736	740.06	736.56	742.95
Stm CB A2	FES-5	69	0	0.83	0	0	0.447	0	10.4	6.41	1.76	4.62	9.52	7.7	0.013	15	2.17	735.5	734	736.11	734.61	739
Stm CB A8	Stm MH A7	75	0.69	0.69	0.39	0.272	0.272	10	10	6.48	0	1.76	4.11	5.03	0.013	12	1.33	747.5	746.5	747.96	746.96	750
Stm MH A7	FES-8	34	0	0.69	0	0	0.272	0	10	6.48	0	1.76	6.41	6.96	0.013	12	3.24	746.5	745.4	746.86	745.76	749.51
Stm FES B3	Stm CB B2	61	0.23	0.23	0.56	0.129	0.129	10	10	6.48	0	0.83	7.9	6.53	0.013	12	4.92	748	745	748.22	745.75	745.95
Stm CB B2	FES-11	93	3.31	3.54	0.4	1.309	1.437	30	30.1	3.82	0	5.48	10.89	6.17	0.013	18	1.08	745	744	745.75	744.75	747.85
Stm MH E10	Stm MH E9	79	0.1	0.1	0.35	0.035	0.035	10	10	6.48	1	1.23	3.59	4.14	0.013	12	1.01	744	743.2	744.4	743.8	748.62
Stm MH E9	Stm MH E8	116	0.1	0.2	0.53	0.053	0.088	10	10.29	6.43	1	1.57	2.34	3.19	0.013	12	0.43	743.2	742.7	743.8	743.3	746
Stm MH E8	FES-16	34	0	0.2	0	0	0.088	0	10.29	6.43	1	1.57	2.73	3.6	0.013	12	0.59	742.7	742.5	743.24	743.04	747.33
Stm FES E6	Stm MH E5	50	0.27	0.27	0	0	0	10	10	6.48	0	0	7.56	0.04	0.013	12	4.5	742	739.75	742	739.75	743.25
Stm FES E3	Stm MH B E2	26	0.18	0.18	0.55	0.099	0.099	10	10	6.48	1.94	2.58	6.55	7.85	0.013	12	3.38	740.08	739.2	740.52	739.65	741.33
Stm MH B E2	FES-22	29	0	0.18	0	0	0.099	0	10	6.48	1.94	2.58	6.31	7.63	0.013	12	3.14	739.2	738.29	739.65	738.74	741.31
Stm CB C5	Stm MH C3	15	0.16	0.16	0.58	0.092	0.092	10	10	6.48	0	0.6	3.56	3.37	0.013	12	1	743.65	743.5	743.93	743.78	747
Stm MH C3	Stm CB C2	181	0	0.16	0	0	0.092	0	10	6.48	0	0.6	7.35	5.64	0.013	12	4.25	743.5	735.8	743.69	736.03	748.2
Stm CB C2	FES-26	40	0	0.16	0	0	0.092	0	10	6.48	0	0.6	5.04	4.32	0.013	12	2	735.8	735	736.03	735.23	739.8







Existing Tree Legend: GOOD TREE FAIR TREE POOR TREE DEAD TREE DEAD TREE PROTECTED TREE per Village Ordinance TREE to be REMOVED #209 Utgath SURVEYED TREES OUTSIDE CONTINUE SURVEYED TREES OUTSIDE		The J N L Design Group, Inc. Planning + Landscape Architecture	1955 Raymond Drive Suite 119 Northbrook, Illinois 60062 224-269-4290
S: e inventoried on October 17, December 23, 2019, October 27, 2020 and June 2, 2021. Is were identified on the property that had a minimum diameter at breast height of ared for diameter, and identified to their respective genus and species, heral health condition. Trees that are identified as Protected Trees comply aree Preservation ordinance as a Protected Tree in size and species. The according to common horticultural standards and given a general general health and structure , i.e., good, fair, poor. Tree locations are not as. A complete tree survey will be completed during final engineering. Inches and full crown, no major limbs in crown dead or dying, apparent wounds or diseases, no apparent hollow spots or the main trunk or major limbs. Good structure, few weak	Dranad For:	Philip Estates, LLC	rland Park, IL
Ieaning excessively. of the following defects: Some major branches in crown dead ist 50% still alive), apparent wounding, gaps in bark, oozing colored or yellowed follage, weak crotches, excessively e broken major limbs or missing / broken or headed back the tree is dead, major wounding, major disease, weak spots, result in imminent collapse of the tree, excessive lean of trunk, irtial/ complete uproofing of tree. pletely dead, no display of follage, tree has fallen to the ee (s) designated in the Village Ordinance of having a minimum height of 8"-10" or greater and consist of the folowing species: ak/ Hill's Oak/ Red Oak/ Swamp White Oak/ White Oak PRUNE BRANCHES IF DIRECTED BY LANDSCAPE ARCHITECT PENNER ALL DEAD JURG EFERM CANDER:	EXISTING TREE SURVEY & PRESERVATION PLAN	PHILIP ESTATES SUBDIVISION	CUBA ROAD LONG GROVE, ILLINOIS
REMOVE ALL DEAD LIMBS FROM CANOPY METAL FENCE PLOSTS WITH 48' HT. PLASTIC MESH INSTALL FENCE ALLONG DRIPLINE OF TREE TO BE PRESERVED OR PER PLAN-COORDINATE WITH SILT FENCE LOCATIONS <b>DTE</b> PREMOVE PROTECTIVE FENCING ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED TREE PROTECTION FENCE LAYOUT TO BE STAKED ON-SITE FOR REVIEW BY LIMDSCARE ARCHITECT PRIOR TO INSTALLATION WHEN ROOT CUTS HAULD BE ADDE BACK TO A LATERAL ROOT. WHEN ROOT GO SMASHING. ROOT S SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHOULD BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. SATE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR DISEASE CAUSING AGENTS. EXPOSED POOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE ARE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR DISEASE CAUSING AGENTS. EXPOSED POOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT POSSIBLE. ROOTS SHALL BE COVERED INMEDIATELY TO PREVENT PROVIDENCE AND THE PROVIDENT ARE LEAST FAVORABLE FOR DISEASE CAUSING AGENTS. EXPOSED POOTS SHALL BE COVERED INMEDIATELY TO PREVENT PROVIDENT AND ADD TO PREVENT PROVIDENT ARE LEAST FAVORABLE PROTECTION FRENCE EXTENSION FROM TO DRIVINE TO DRIVINE EXTENSION FROM DIRVINE TO DRIVINE EXTENSION FROM TO DRIVINE TO DRIVINE EXTENSION FROM DIRVINE TO DRIVINE EXTENSION FROM DIRVINE TO DRIVINE TO ADDRIVE EXTENSION FROM DIRVINE TO DRIVINE TO ADDRIVE EXTENSION FROM DIRVINE TO DRIVINE	Village Su	ubmittal Survey-Village Si Submittal JMBER: C O F DTED F	

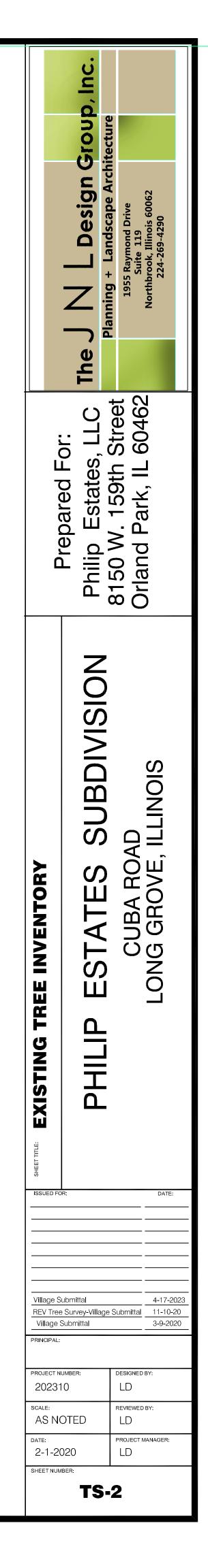
### **EXISTING TREE INVENTORY**

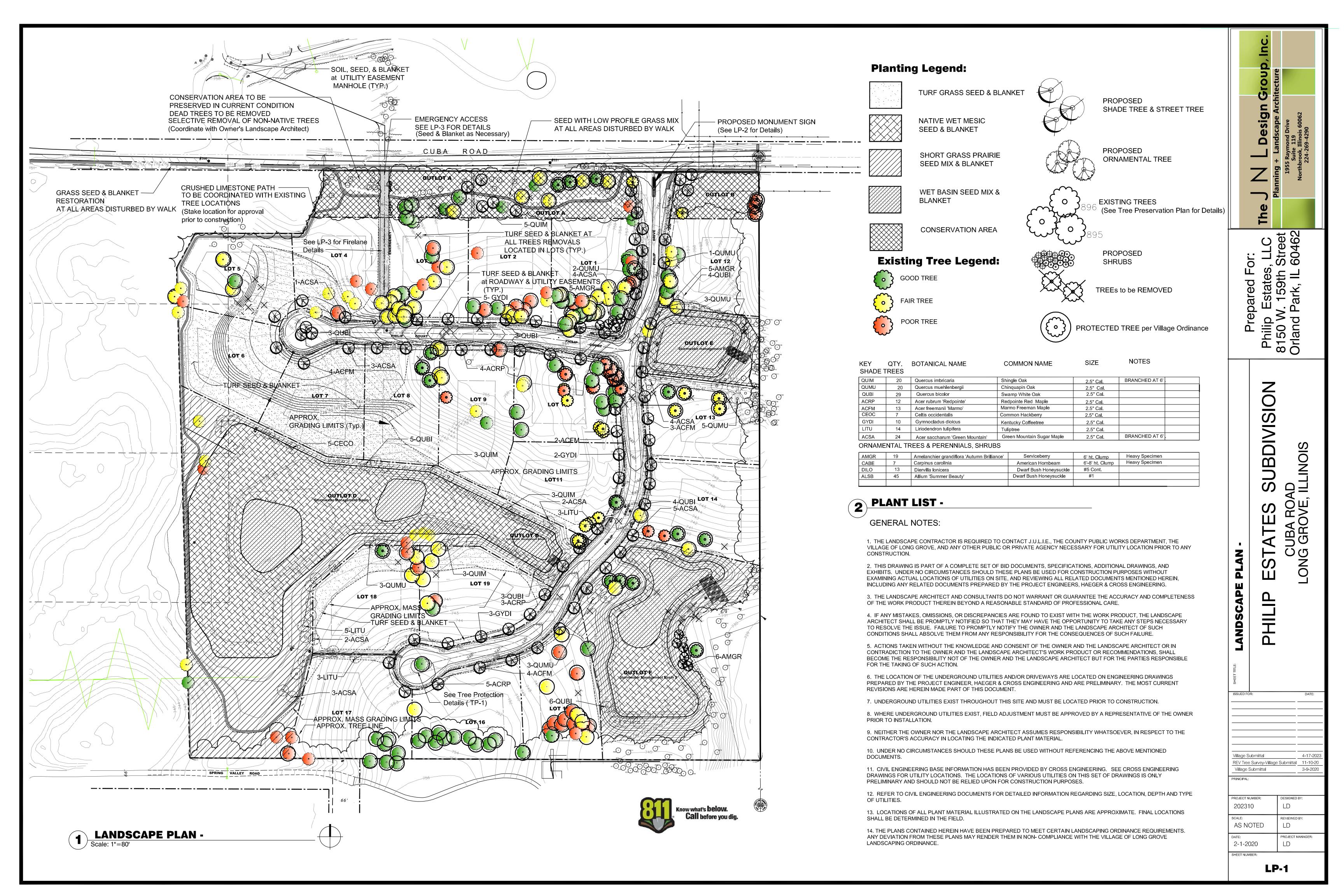
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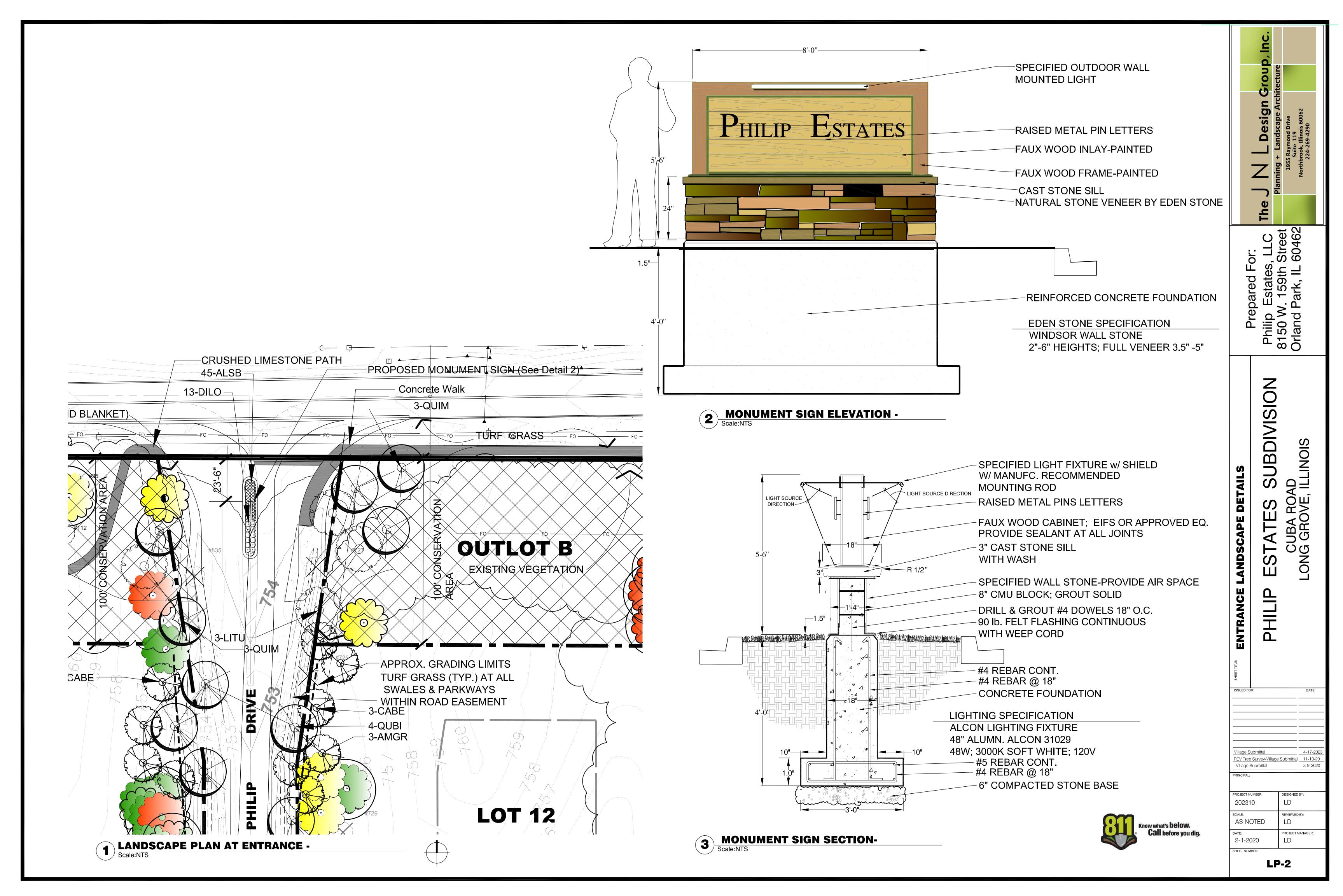
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TAG NO.	SIZE	ТҮРЕ	Scientific Name	Common Name	Condition	Heritage Tree
31	18" 18"		Quercus rubra	Red Oak	Good Good	X
32 33	36"		Acer saccarum Acer saccharum	Sugar Maple Sugar Maple	Fair	X X
34	18"		Quercus rubra	Red Oak	Good	X
35 437	24" 18"		Acer saccharum Prunus serotina	Sugar Maple Black Cherry	Fair Good	X X
437	18		Prunus serotina	Black Cherry	Good	X
439	12"		Prunus serotina	Black Cherry	Good	Х
440 441	14" 24"		Acer negundo Acer saccharum	Boxelder Sugar Maple	Poor Poor	X
441	18"		Gleditsia tricanthos	Honeylocust	Poor	^
443	18"		Gleditsia tricanthos	Honeylocust	Poor	
474 475	22" 18"		Prunus serotina Prunus serotina	Black Cherry Black Cherry	Poor Poor	X X
476	18"		Prunus serotina	Black Cherry	Poor	X
601	13"		Acer negundo	Boxelder	Poor	
602 603	26" 23"		Acer platanoides Acer platnoides	Norway Maple Norway Maple	Fair Good	
725	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair Remove	
726	21"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair Damage	
727 728	21" 36"		Gleditsia tricanthos Quercus palustris	Common Honeylocust Pin Oak	Fair Remove Good	x
729	CLUMP 3-8"		Crataegus molllis	Downy Hawthorn	Dead Remove	
730	CLUMP 2-8"		Crataegus molllis	Downy Hawthorn	Dead Remove	×
731 732	27" 15"		Quercus palustris Acer saccharum	Pin Oak Sugar Maple	Good Fair	X X
733	24"	Deciduous	Acer saccharum	Sugar Maple	Good	Х
734	24" 24"		Acer saccharum	Sugar Maple	Good	X
735 736	24" CLUMP 3-6"		Quercus rubra Euonymus atropurpureus	Red Oak Eastern Wahoo	Fair Fair	X
737	CLUMP 5-6"	Deciduous	Euonymus atropurpureus	Eastern Wahoo	Fair	
738	CLUMP 5-4"		Euonymus atropurpureus	Eastern Wahoo	Fair Dead Remove	
739 740	18" 10"	Deciduous Deciduous	Acer saccharum Malus Sp.	Sugar Maple Crabapple	Dead Remove Fair	
741	8"	Deciduous	Malus Sp.	Crabapple	Dead Remove	
742 743	CLUMP 2-10"	Deciduous	•	Crabapple Crabapple	Dead Remove Dead Remove	
743	CLUMP 3-6' 10"	Deciduous Deciduous	Malis Sp. Prunus serotina	Crabapple Black Cherry	Dead Remove Fair	X
745	8"		Prunus serotina	Black Cherry	Fair	X
746 747	8" 10"		Prunus serotina Ginkgo biloba	Black Cherry Ginkgo	Fair Remove Fair	X
747	10		Prunus serotina	Black Cherry	Fair	x
749	12"		Prunus serotina	Black Cherry	Fair	Х
750 751	CLUMP 2-8" CLUMP 2-10"		Prunus serotina Prunus serotina	Black Cherry Black Cherry	Fair Fair	X X
751	CLUMP 3-6"		Crataegus molllis	Downy Hawthorn	Dead Remove	^
753	CLUMP 2-6"		Crataegus molllis	Downy Hawthorn	Dead Remove	
754 755	CLUMP 2-6" 15"		Crataegus molllis Celtis occidentalis	Downy Hawthorn Common Hackberry	Dead Remove Dead Remove	X
755	13		Celtis occidentalis	Common Hackberry	Good	X
757	15"	Deciduous		Americam Elm	Fair	Х
758 759	24" 27"	Deciduous Deciduous	Tilia americana Tilia americana	Linden / Basswood Linden / Basswood	Dead Remove Fair	X X
760	8"		Ulmus americana	American Elm	Dead Remove	
761	8"		Prunus serotina	Black Cherry	Fair	Х
762 763	27" 6"		Celtis occidentalis Acer saccharum	Common Hackberry Sugar Maple	Fair Fair Remove	X X
763	8"		Prunus serotina	Black Cherry	Dead Remove	X
765	8"		Prunus serotina	Black Cherry	Poor Remove	Х
766 767	15" 18"		Celtis occidentalis Quercus rubra	Common Hackberry Red Oak	Poor Remove Good	X X
768	18"		Quercus rubra	Red oak	Good	X
769	CLUMP 5-12"		Prunus serotina	Black Cherry	Good	X
770 771	8" 12"		Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	Good Good	X X
771	12		Morus alba	White Mulberry	Fair	
773	21"		Morus alba	White Mulberry	Fair	
774 775	27" 21"		Quercus palustris Quercus palustrus	Pin Oak Pin Oak	Good Good	X X
776	10"		Acer negundo	Boxelder	Fair	
777	10"		Prunus serotina	Black Cherry	Fair	X
778 779	8" 12"		Prunus serotina Acer negundo	Black Cherry Boxelder	Fair Fair	X
780	15"		Prunus serotina	Black Cherry	Fair	Х
781	12"		Acer negundo	Box Elder	Fair	
782 783	CLUMP 3-6" 15"		Prunus serotina Acer negundo	Box Elder Box Elder	Fair Poor	
784	8"	Deciduous	Malus Sp.	Crabapple	Fair	
785	10"		Celtis occidentalis	Common Hackberry	Fair / Poor	
786 787	24" 10"		Celtis occidentalis Juglans nigra	Common Hackberry Black Walnut	Good Fair	X
787	8"	Deciduous	Malus Sp.	Crabapple	Poor	
789	10"		Acer saccharum	Sugar Maple	Good	X
790 791	12" 15"		Acer saccharum Prunus serotina	Sugar Maple Black Cherry	Good Fair	X
792	8"	Deciduous	Acer saccharum	Sugar Maple	Fair	x
793	10"		Acer saccahrum	Sugar Maple	Good	X
794 795	15" 8"		Acer saccharum Prunus serotina	Sugar Maple Black Cherry	Good Poor	X X
796	15"		Acer saccharum	Sugar Maple	Good	X
	12"		Prunus serotina	Black Cherry	Fair	Х
797	UNUSED	Deciduous	Prunus serotina	Black Cherry	Fair	X
		Deciduous			1 ·	· · · · · · · · · · · · · · · · · · ·
797 798	CLUMP 4-12" 12"		Prunus serotina	Black Cherry	Fair	Х
797 798 799 800 801	CLUMP 4-12" 12" 12"	Deciduous Deciduous	Prunus serotina Acer saccharum	Sugar Maple	Good	X
797 798 799 800	CLUMP 4-12" 12"	Deciduous Deciduous Deciduous	Prunus serotina			

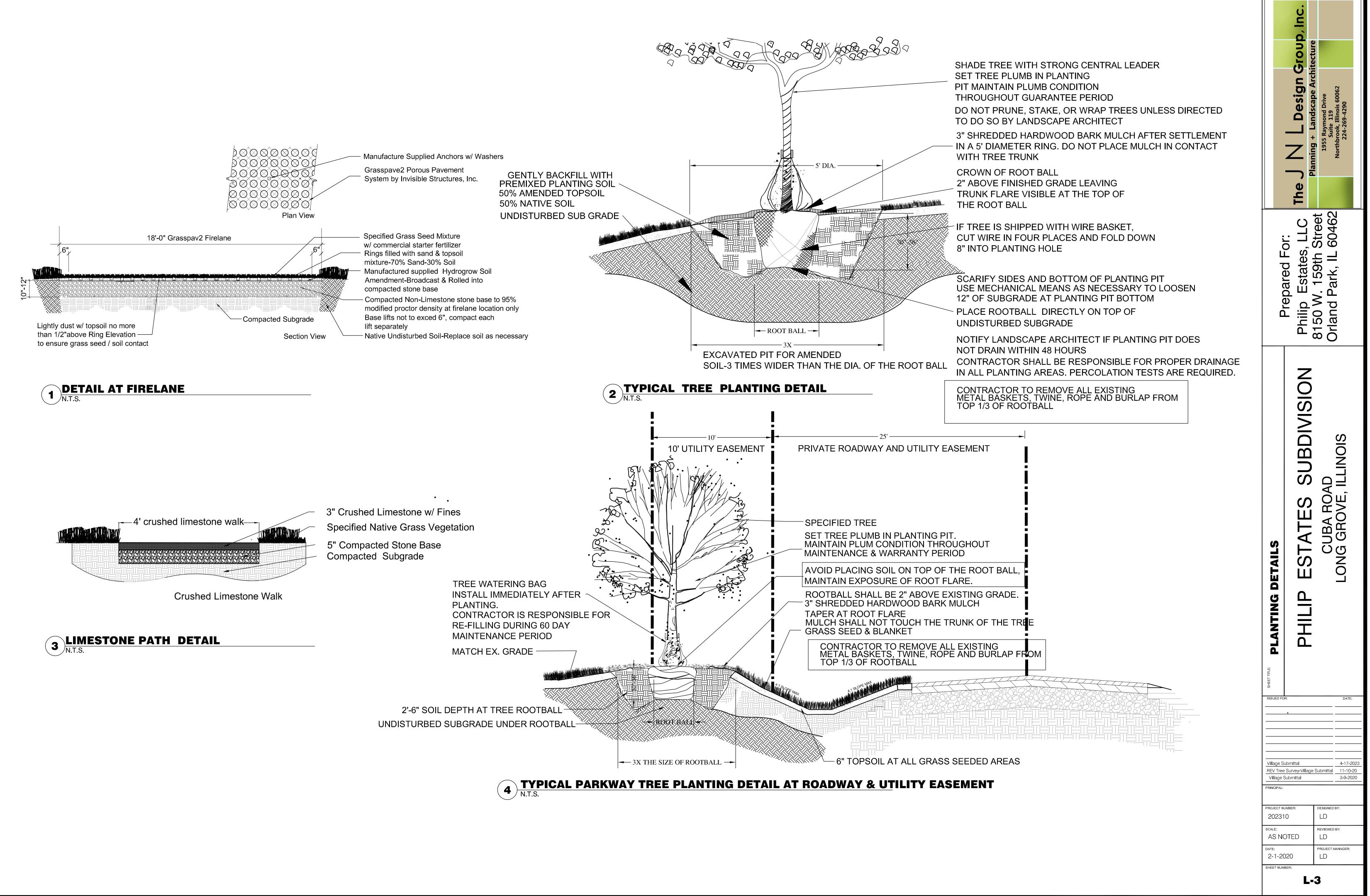
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24"	Deciduous	Acer saccharum	Sugar Maple	Good		X	913	36"	Deciduous	Acer negundo	Boxelder	Dead	Remove	
8"		Acer saccharum	Sugar Maple	Good		X	914	8"		Prunus serotina	Black Cherry	Fair		Х
8"		Acer saccharum	Sugar Maple	Good		Х	915	8"		Rhamus cathartica	Common Buckthorn	Poor		
15"		Acer saccharum	Sugar Maple	Good		<u> </u>	916	6"		Prunus serotina	Black Cherry	Fair		X
<u> </u>		Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	Good Good		X X	917 918	CLUMP 4-15" 8"		Alnus negundo Prunus serotina	Box Elder Black Cherry	Dead Fair	Remove	X
8"		Acer saccharum	Sugar Maple	Fair		× ×	919	18"		Quercus coccinea	Scarlet oak	Fair		×X
8"		Acer saccharum	Sugar Maple	Fair		X	920	8"	Coniferous		Cypress	Poor		
10"	Deciduous	Acer saccharum	Sugar Maple	Good		Х	921	21"	Deciduous	Quercus coccinea	Scarlet Oak	Fair		Х
6"		Acer saccharum	Sugar Maple	Fair		Х	922	21"		Quercus coccinea	Scarlet Oak	Good		X
		Acer saccharum	Sugar Maple	Fair		X X	923	8"		Betula nigra	River Birch	Dead	Remove	
15" 36"		Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	Good Good		X X	924 925			Betula nigra Betula nigra	River Birch River Birch	Fair Fair		
24"		Acer saccharum	Sugar Maple	Fair		× ×	925			Betula nigra	River Birch	Fair		
15"		Prunus serotina	Black Cherry	Fair		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	927	8"		Prunus serotina	Black Cherry	Fair		
21"	Deciduous	Acer saccharum	Sugar Maple	Good		Х	928	18"	Deciduous	Prunus serotina	Black Cherry	Fair		
21"		Quercus palustris	Pin Oak	Fair		Х	929	10"	Deciduous	Prunus serotina	Black Cherry	Fair		
18"		Acer saccharum	Sugar Maple	Fair		X	930	CLUMP 4-10"		Prunus serotina	Black Cherry	Fair		
18"		Acer saccharum	Sugar Maple	Good		X X	931	12"		Prunus serotina	Black Cherry	Fair		
<u> </u>		Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	Fair Good		X X	932	21" 36'		Aesculus hippocastanum Tilia americana	Horsechestnut Linden / Basswood	Fair Good		X
12"		Acer saccharum	Sugar Maple	Good		× ×	934	21"		Fraxinus americana	Green Ash	Fair	Remove	
15"		Acer saccharum	Sugar Maple	Poor		X	935	36'		Tilia americana	Linden / Basswood	Fair	nemore	Х
21"	Deciduous	Ulmus americana	American Elm	Good		Х	936	18"		Gleditsia tricanthos	Common Honeylocust	Poor		
6"	Deciduous	Prunus serotina	Black Cherry	Dead			937	24"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Poor		
24"		Fraxinus pennsylvanica	Green Ash	Good			938	24"		Acer saccharum	Sugar Maple	Good		X
10"		Acer saccharum	Sugar Maple	Good		Х	939	24"		Acer saccahrum	Sugar Maple	Fair		<u>X</u>
18" CLUMP 2-10"	Deciduous	Gleditsia tricanthos Malus Sp	Common Honeylocust Crabapple	Fair Poor			940	24"		Tilia americana	Basswood	Good	Pomovo	X
15"		Gleditsia tricanthos	Common Honeylocust	Fair	Remove		941	30"		Fraxinus pennsylvanica Acer negundo	Green Ash Boxelder	Dead Poor	Remove Remove	
8"	Deciduous		Mulberry	Fair			943	CLUMP 3-8"		Rhamus cathartica	Buckthorn	Poor	Remove	
6"		Tilia americana	American Linden/ Basswood	Fair		Х	944	24"		Celtis occidentalis	Common Hackberry	Dead	Remove	Х
24"		Quercus rubra	Red Oak	Good		X	945	8"		Rhamus cathartica	Buckthorn	Poor	Remove	
24"		Quercus palustris	Pin Oak	Good		X	946	30"		Tilia americana	Linden/ Basswood	Good		X
18"		Gleditsia tricanthos Gleditsia tricanthos	Common Honeylocust	Good Fair			947	10"		Prunus serotina	Black Cherry	Fair	Remove	X
18"		Gleditsia tricanthos Gleditsia tricanthos	Common Honeylocust Common Honeylocust	Poor			948	8" 24"		Prunus serotina Celtis occidentalis	Black Cherry Common Hackberry	Fair Good	Remove Remove	X X
		Quercus alba	White Oak	Fair		X	949	24"		Celtis occidentalis Celtis occidentalis	Common Hackberry	Poor	Remove	X X
CLUMP 3-10"		Acer ginnala	Amur Maple	Dead	Remove		951	18"		Quercus rubra	Northern Red Oak	Good		X
24"	Deciduous	Quercus robur	English Oak	Dead			952	24"		Quercus rubra	Northern Red Oak	Good		x
CLUMP 2-15"	Deciduous	Acer saccharum	Sugar Maple	Fair		Х	953	36"	Deciduous	Quercus rubra	Northern Red Oak	Good		Х
10"		Acer saccharum	Sugar Maple	Fair		X	. 954	30"		Quercus rubra	Northern Red Oak	Fair		X
15"		Acer saccharum	Sugar Maple	Good		<u> </u>	955	18"		Acer saccharum	Sugar Maple	Dead	Remove	<u> </u>
15"		Acer saccharum Fraxinus pennsylvanica	Sugar Maple Green Ash	Good Dead	Remove	X	956 957	24" 21"		Acer saccharum	Sugar Maple Burr Oak	Good Good		X
18"		Acer saccharum	Sugar Maple	Good	Remove	Х	958	8"		Quercus macrocarpa Crataegus molllis	Hawthorn	Dead	Remove	
12"	Deciduous	Acer saccharum	Sugar Maple	Fair		Х	959	10"	Deciduous		Crabapple	Poor	nemore	
10"	Deciduous	Acer saccharum	Sugar Maple	Fair		Х	960	15"	Deciduous	Quercus coccinea	Scarlet Oak	Fair		Х
8"		Prunus serotina	Black Cherry	Poor	Remove		961	18"	Deciduous	Quercus macrocarpa	Burr Oak	Fair		Х
	Deciduous	· · ·	Crabapple	Poor	Remove		962	24"		Quercus coccinea	Scarlet oak	Fair / Po	or	X
15"		Acer saccharum Gleditsia tricanthos	Sugar Maple Common Honeylocust	Good Fair	Remove Remove	Х	963	18"		Quercus coccinea	Scarlet Oak	Fair		X
		Acer saccharum	Sugar Maple	Good	Keniove	X	964 965	21" CLUMP 3-8"		Quercus coccinea Crataegus molllis	Scarlet oak Hawthorn	Fair Poor		X
		Quercus palustris	Pin Oak	Poor		X	966	CLUMP 3-8"	Deciduous		Crabapple	Poor		
24"		Acer saccharum	Sugar Maple	Good		Х	967	CLUMP 6"/8"		Crataegus molllis	Hawthorn	Poor		
21"	Deciduous	Acer saccharum	Sugar Maple	Fair		Х	968	CLUMP 10-4"	Deciduous	Rhamus cathartica	Buckthorn	Poor		
12"		Prunus serotina	Black Cherry	Fair			969	CLUMP 4-8"	Deciduous	Crataegus molllis	Hawthorn	Poor		
15"		Acer saccharum	Sugar Maple	Good		<u> </u>	970	18"		Quercus macrocarpa	Burr Oak	Good		X
12"		Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	Dead Fair	Remove	X X	971			Crataegus molllis	Hawthorn	Poor		
		Prunus serotina	Black Cherry	Fair		^	. <u>972</u> 973	24"		Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	Fair Poor		X
8"		Prunus serotina	Black Cherry	Poor			973	15"		Acer saccharum	Sugar Maple	Dead	Remove	× X
10"	Deciduous	Tilia americana	Linden / Basswood	Fair			975	18"		Acer saccharum	Sugar Maple	Fair		X
24"							976	CLUMP 7-2"	Deciduous	Rhamus cathartica	Buckthorn	<u> </u>		
	Deciduous	Ginkgo biloba	Ginkgo	Fair			370	CLOIVIF 7-2	Beerdabas	ranamas cathartica		Poor		
36"	Deciduous	Aver plantanoides	Norway Maple	Good			977	CLUMP 16-1"		Gleditsia tricanthos	Common Honeylocust	Poor Poor		
10"	Deciduous Deciduous	Aver plantanoides Gleditsia tricanthos	Norway Maple Common Honeylocust	Good Dead	Remove		977 978	CLUMP 16-1" 12"	Deciduous Deciduous	Gleditsia tricanthos Gleditsia tricanthos	Common Honeylocust	Poor Fair		
10" 18"	Deciduous Deciduous Deciduous	Aver plantanoides Gleditsia tricanthos Gleditsia tricanthos	Norway Maple Common Honeylocust Common Honeylocust	Good Dead Fair	Remove		977 978 979	CLUMP 16-1" 12" 40"	Deciduous Deciduous Deciduous	Gleditsia tricanthos Gleditsia tricanthos Tilia americana	Common Honeylocust American Linden / Basswood	Poor Fair Poor		<u> </u>
10"	Deciduous Deciduous Deciduous Deciduous	Aver plantanoides Gleditsia tricanthos	Norway Maple Common Honeylocust	Good Dead	Remove	X	977 978 979 980	CLUMP 16-1" 12"	Deciduous Deciduous Deciduous Deciduous	Gleditsia tricanthos Gleditsia tricanthos	Common Honeylocust	Poor Fair Poor Fair		x x
10" 18" 8" 15" 8"	Deciduous Deciduous Deciduous Deciduous Deciduous	Aver plantanoides Gleditsia tricanthos Gleditsia tricanthos Pyrus calleryana	Norway Maple Common Honeylocust Common Honeylocust Common Ornamental Pear	Good Dead Fair Good	Remove	X X X	977 978 979	CLUMP 16-1" 12" 40" 16"	Deciduous Deciduous Deciduous Deciduous Deciduous	Gleditsia tricanthos Gleditsia tricanthos Tilia americana Quercus palistis	Common Honeylocust American Linden / Basswood Pin Oak	Poor Fair Poor		
10"           18"           8"           15"           8"           15"	Deciduous Deciduous Deciduous Deciduous Deciduous Deciduous	Aver plantanoides Gleditsia tricanthos Gleditsia tricanthos Pyrus calleryana Acer saccharum Acer saccharum Gleditsia tricanthos	Norway MapleCommon HoneylocustCommon HoneylocustCommon Ornamental PearSugar MapleSugar MapleCommon Honeylocust	Good Dead Fair Good Good Fair Good			977 978 979 980 981	CLUMP 16-1" 12" 40" 16" 18" 9" 10"	Deciduous Deciduous Deciduous Deciduous Deciduous Deciduous Deciduous	Gleditsia tricanthos Gleditsia tricanthos Tilia americana Quercus palistis Gleditsia tricanthos Gleditsia tricanthos Acer negundo	Common Honeylocust American Linden / Basswood Pin Oak Common Honeylocust Common Honeylocust Boxelder	Poor Fair Poor Fair Fair	Remove	
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	Scirpus atrovirens	DARK GREEN RUSH	4.0000	0.25
	Scirpus cyperinus	WOOL GRASS	2.0000	0.13
		Grass/Sedg	e Subtotals	3.09
Flowers & O	ther Broadleaves	100 C		
	SCIENTIFIC NAME	COMMON NAME	OZ/ACRE	LB/ACRE
	Acorus calamus	SWEET FLAG	12.0000	0.75
	Alisma subcordatum	COMMON WATER PLANTAIN	4.0000	0.25
	Asclepias incarnata	SWAMP MILKWEED	4.0000	0.25
	Bidens cernua	NODDING BUR MARIGOLD	4.0000	0.25
	Bidens coronata	TALL SWAMP MARIGOLD	2.0000	0.13
	Eutrochium maculatum	SPOTTED JOE PYE WEED	0.7500	0.05
	Hibiscus laevis	HALBERD-LEAVED ROSE MALLOW	6.0000	0.38
	tris virginica shrevel	BLUE FLAG	16.0000	1.00
	Ludwigia alternifolia	SEEDBOX	0.1250	0.01
	Lythrum alatum	WINGED LOOSESTRIFE	0.1250	0.01
	Mimulus ringens	MONKEY FLOWER	0.5000	0.03
	Sagittaria latifolia	COMMON ARROWHEAD	8.0000	0.50
	Solidago riddellii	RIDDELL'S GOLDENROD	1.0000	0.06
		Broadleaf S	ubtotals	3.66
		SEED MIX T	OTALS	6.75

COMMON NAME

## **2** WET BASIN SEED MATRIX

Grasses, Sedges, & Rushes

	Gentiana flavida	YELLOWISH GENTIAN (1, 4)	
	Gentiana puberulenta	PRAIRIE GENTIAN (1, 2, 4, 5)	
	Geum triflorum	PRAIRIE SMOKE (1,2)	Γ
	Heuchera richardsonii	PRAIRIE ALUM ROOT (1,2)	Γ
	Liatris pycnostachya	PRAIRIE BLAZING STAR (1,2)	Γ
	Penstemon pallidus	PALE BEARD TONGUE (5)	Γ
	Phlox pilosa	SAND PRAIRIE PHLOX (1,2,5)	Γ
	Rosa blanda	EARLY WILD ROSE (1,3)	Γ
	Rosa carolina	PASTURE ROSE (1,3)	Γ
	Ruellia humilis	HAIRY RUELLIA (3)	Γ
	Sisyrinchium albidum	COMMON BLUE-EYED GRASS (2)	Γ
	Sporobolus heterolepis	PRAIRIE DROPSEED (1,2)	Γ
	Veronicastrum virginicum	COLVER'S ROOT (1)	Γ
	Viola pedata lineariloba	BIRD'S FOOT VIOLET (1,5)	Г
$\mathcal{F}$	LOW PROFILE GR	ASS SEED MATRIX	

SCIENTIFIC NAME

Carex comosa

Carex lacustris

Carex lupulina

Carex vulpinoidea

Juncus effusus

Leersia oryzoides

Eleocharis erythropoda

Schoenoplectus tabernaemontani

Carex stricta

Carex hystericina

Tradescantia ohiensis	COMMON SPIDERWORT	5.0000	
Verbena stricta	HOARY VERVAIN	3.0000	
Zizia aurea	GOLDEN ALEXANDERS	5.0000	
<b>Recommended Plug Species to</b>	Supplement Low Profile Prairie Seed Mix		
Scientific Name	Common Name	PLUGS/FLAT	FLATS/ACRE
Anemone canadensis	MEADOW ANEMONE (1, 3)	38	43
Asclepias verticillata	WHORLED MILKWEED (2, 3)	38	20
Baptisia leucophaea	CREAM WILD INDIGO (1, 2, 3)	38	20
Ceanothus americanus	NEW JERSEY TEA (1, 3)	38	15
Dodecatheon meadia	SHOOTING STAR (1, 2)	38	86
Gentiana andrewsii	BOTTLE GENTIAN (1, 2, 4)	38	20
Gentiana flavida	YELLOWISH GENTIAN (1, 4)	38	19
Gentiana puberulenta	PRAIRIE GENTIAN (1, 2, 4, 5)	38	15
Geum triflorum	PRAIRIE SMOKE (1,2)	38	86
Heuchera richardsonii	PRAIRIE ALUM ROOT (1,2)	38	20
Liatris pycnostachya	PRAIRIE BLAZING STAR (1,2)	38	86
Penstemon pallidus	PALE BEARD TONGUE (5)	38	20
Phlox pilosa	SAND PRAIRIE PHLOX (1,2,5)	38	20
Rosa blanda	EARLY WILD ROSE (1,3)	1	15
Rosa carolina	PASTURE ROSE (1,3)	1	25
Ruellia humilis	HAIRY RUELLIA (3)	38	20
Sisyrinchium albidum	COMMON BLUE-EYED GRASS (2)	38	43
Sporobolus heterolepis	PRAIRIE DROPSEED (1,2)	38	86
Veronicastrum virginicum	COLVER'S ROOT (1)	38	43

BRISTLY SEDGE

PORCUPINE SEDGE

BROWN FOX SEDGE

COMMON RUSH

RICE CUT GRASS

GREAT BULRUSH

COMMON LAKE SEDGE

COMMON HOP SEDGE

COMMON TUSSOCK SEDGE

RED-ROOTED SPIKE RUSH

Scientific Name	Common Name	OZ/Acre
Allium cernuum	NODDING WILD ONION	3.0000
Amorpha canescens	LEAD PLANT	1.0000
Asclepias tuberosa	BUTTERFLY WEED	8.0000
Astragalus canadensis	CANADIAN MILK VETCH	1.0000
Baptisia alba	WHITE WILD INDIGO	4.0000
Chamaecrista fasciculata	PARTRIDGE PEA	16.0000
Coreopsis palmata	PRAIRIE COREOPSIS	4.0000
Dalea purpurea	PURPLE PRAIRIE CLOVER	6.0000
Desmanthus illinoensis	ILLINOIS SENSITIVE PLANT	1.5000
Echinacea pallida	PALE PURPLE CONEFLOWER	16.0000
Echinacea purpurea	PURPLE CONEFLOWER	8.0000
Eryngium yuccifolium	RATTLESNAKE MASTER	2.0000
Euphorbia corollata	FLOWERING SPURGE	2.0000
Heliopsis helianthoides	FALSE SUNFLOWER	4.0000
Lespedeza capitata	ROUND-HEADED BUSH CLOVER	4.0000
Liatris aspera	ROUGH BLAZING STAR	4.0000
Monarda fistulosa	WILD BERGAMOT	1.0000
Parthenium integrifolium	WILD QUININE	2.0000
Penstemon digitalis	FOXGLOVE BEARD TONGUE	3.0000
Potentilla arguta	PRAIRIE CINQUEFOIL	0.2500
Pycnanthemum tenuifolium	SLENDER MOUNTAIN MINT	0.2500
Ratibida pinnata	YELLOW CONEFLOWER	2.0000
Rudbeckia fulgida var. sullivantii	SHOWY BLACK-EYED SUSAN	10.0000
Rudbeckia hirta	BLACK-EYED SUSAN	8.0000
Rudbeckia subtomentosa	SWEET BLACK-EYED SUSAN	0.7500
Solidago juncea	EARLY GOLDENROD	0.2500
Solidago rigida	STIFF GOLDENROD	0.5000
Symphyotrichum ericoides	HEATH ASTER	0.2500
Symphyotrichum laeve	SMOOTH BLUE ASTER	1.0000
Symphyotrichum oolentangiense	SKY-BLUE ASTER	1.0000
Tradescantia ohiensis	COMMON SPIDERWORT	5.0000
Verbena stricta	HOARY VERVAIN	3.0000
Zizia aurea	GOLDEN ALEXANDERS	5.0000

Common Name

SIDE-OATS GRAMA

CANADA WILD RYE

LITTLE BLUESTEM GRASS

SWITCH GRASS

OZ/Acre

192.0000

16.0000

4.0000

96.0000

38

OZ/ACRE

8.0000

4.0000

2.5000

8.0000

1.0000

4.0000

1.0000

1.0000

6.0000

8.0000

LB/ACRE

0.50

0.2

0.16

0.50

0.06

0.25

0.06

0.06

0.38

0.50

Grasses, Sedges & Rushes

Bouteloua curtipendula

Schizachyrium scoparium

Scientific Name

Elymus canadensis

Panicum virgatum

SEEDING METHODS depth. MAINTENANCE Mowing Schedule

Scientific Name	Common Name	OZ/Acre
Calamagrostis canadensis	BLUE JOINT GRASS	2.0000
Carex comosa	BRISTLY SEDGE	2.0000
Carex cristatella	CRESTED OVAL SEDGE	1.0000
Carex frankii	BRISTLY CATTAIL SEDGE	2.5000
Carex hystericina	PORCUPINE SEDGE	2.0000
Carex lupulina	COMMON HOP SEDGE	16.0000
Carex scoparia	LANCE-FRUITED OVAL SEDGE	3.0000
Carex stipata	COMMON FOX SEDGE	1.0000
Carex vulpinoidea	BROWN FOX SEDGE	4.0000
Eleocharis acicularis	NEEDLE SPIKE RUSH	0.7500
Eleocharis erythropoda	RED-ROOTED SPIKE RUSH	1.0000
Elymus virginicus	VIRGINIA WILD RYE	48.0000
Glyceria striata	FOWL MANNA GRASS	2.0000
Juncus dudleyi	DUDLEY'S RUSH	0.2500
Juncus effusus	COMMON RUSH	1.0000
Leersia oryzoides	RICE CUT GRASS	8.0000
Scirpus atrovirens	DARK GREEN RUSH	4.0000
Scirpus cyperinus	WOOL GRASS	2.0000
Spartina pectinata	PRAIRIE CORD GRASS	6.0000

Flowers & Other Broadleaves		
Scientific Name	Common Name	OZ/Acre
Alisma subcordatum	COMMON WATER PLANTAIN	2.0000
Asclepias incarnata	SWAMP MILKWEED	16.0000
Boltonia asteroides var. recognita	FALSE ASTER	0.7500
Cassia hebecarpa	WILD SENNA	1.0000
Chelone glabra	TURTLEHEAD	1.0000
Eupatorium perfoliatum	COMMON BONESET	1.0000
Euthamia graminifolia	COMMON GRASS-LEAVED GOLDENROD	0.5000
Eutrochium maculatum	SPOTTED JOE PYE WEED	3.0000
Helenium autumnale	SNEEZEWEED	2.0000
Hibiscus laevis	HALBERD-LEAVED ROSE MALLOW	4.0000
Iris virginica shrevei	BLUE FLAG	16.0000
Lobelia siphilitica	GREAT BLUE LOBELIA	0.5000
Lythrum alatum	WINGED LOOSESTRIFE	0.0625
Mentha arvensis villosa	WILD MINT	1.0000
Mimulus ringens	MONKEY FLOWER	0.2500
Penthorum sedoides	DITCH STONECROP	0.5000
Verbena hastata	BLUE VERVAIN	6.0000

Scientific Name	Common Name	Plugs/Flat	Flats/Acre	Plugs/Acre
Carex lupulina	Common Hop Sedge (2,3)	38	20.0	
Carex stricta	Common Tussock Sedge (2,3)	38		
Cassia hebecarpa	Wild Senna (2,3)	38		
Doellingeria umbellata	Flat-Top Aster (1,2)	38	11-11/2 Adv-2012	6 M C 1 M C 2 M C 1 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M C 2 M
Filipendula rubra	Queen of the Prairie (1,2,5)	38	20.0	760.00
Gentiana andrewsii	Bottle Gentian (1,2,4)	38	15.0	570.00
Juncus torreyi	Torrey's Rush (5)	38	20.0	760.00
Liatris spicata	Marsh Blazing Star (1,2)	38	20.0	760.00
Lobelia cardinalis	Cardinal Flower (1,2,4)	38	86.0	3,268.00
Lycopus americanus	Common Water Horehound (5)	38	86.0	3,268.00
Onoclea sensibilis	Sensitive Fern (5)	1	250.0	250.00
Pedicularis lanceolata	Fen Betony (1,2,5)	38	15.0	570.00
Peltandra virginica	Arrow Arum (2,3)	38	86.0	3,268.00
Physostegia virginiana	Obedient Plant (2,3)	38	86.0	3,268.00
Sparganium eurycarpum	Common Bur Reed (1)	38	86.0	3,268.00
Spiraea alba	Meadowsweet (1,5)	1	25.0	25.00

### **3** WET MESIC SEED MATRIX

GENERAL NOTES FOR NATIVE GRASS MAINTENANCE & INSTALLATION

A. If present, areas with compacted soils shall be disked or raked prior to seeding by working the topsoil to a minimum depth of three inches (preferably six inches). Soil aggregates shall not exceed one inch in the largest diameter. Remove all rock, limestone, tree roots to allow for maximum soil seed contact. Soil depth is 6" for all seeded areas.

B. Remove all weed and non-native herbaceous plants with an approved herbicide or by hand-pulling or other approved methods.

C. The optimal window for seeding is between August 20 and September 30th. Spring seeding will only be permitted with Landscape Architects approval. Spring seeding will require supplemental watering. Fall seeding will require supplemental watering.

A. Broadcast: Covercrop; The amount of seed sown shall be 33 lbs per acre of Seed Oats. Broadcast applied seed will be either rolled or hand-raked into the soil to ensure good soil-seed contact. Within 12 hours, if conditions permit roll seeded areas at right angles to the slope runoff with an approved type roller or cultipacker to firm the seedbed and place the seed in contact with the soil. Install with biodegradable straw blanket.

B. Hydroseeding: The operator shall direct the spray toward the ground such that the water shall drill the seed into the soil and shall not direct the spray outward and across the area being seeded, as this will prevent good seed-soil contact.

C. Disc: The disc proposed for use shall be in a good state of repair with sound, unbroken blades. The disc shall be weighted if necessary to achieve the required tillage

A. At the end of the first growing season, (Fall) mow native grasses to a height of four to six inches. Mowing heights are approximate and can be adjusted to maximize control of weeds, but minimize damage to fescue grass species.

B. A mower that chops the plants to facilitate rapid drying will be used, such as a flail-type mower, or weed wacker. Rotary mowers and sickles bar mower will not be used, as they tend to cut the plants leaving large material that can smother the fescue seedlings. Mowing the vegetation to this height will improve the amount of sunlight reaching the developing native seedlings, thereby encouraging their growth. Additionally, mowing the weedy vegetation prior to the plants setting seed will further reduce weed coverage.

Chemical Control

- A. Management of the vegetation in the native grass areas may include selective herbicid applications to control cool season weeds and non-native plantings.
- B. Herbicides shall be best quality materials with original manufacturer's labels and containers labeled with proper identification and intended use.
- C. Use non-staining materials.
- D. Herbicide shall be non-toxic to animal and aquatic life.

E. Maintenance contractor shall submit for review and approval of all proposed herbicides to association and apply it in an appropriate manner to prevent killing of native species that may be present in close proximity.

#### Performance Standards

A. At the end of the first year of monitoring, at least 90% of the vegetative coverage will consist of native species, cover crop, or seeded species as measured by aerial coverage.

B. No single area of more than 1.0 square meters in size shall be devoid of native vegetation at any time after the first full year of growth after seeding.

C. By the end of the 4th full growing season, non-native or weed species shall not comprise more than 25% of the overall vegetative cover. By the end of the 5th full growing season, at least 75% of the vegetative coverage will consist of installed (seeded) native species, not including annual cover crop species. B. Monitoring: A meander search will be conducted throughout the no-mow areas to assess the establishment of the fescue grasses. All vegetation encountered will be identified to species, percent of permanent grass coverage, and percent of weed coverage. Monitor sampling shall be done in the fall, for 5 growing seasons. Representative photographs will be taken at the time of sampling at permanent locations throughout the buffer areas. An annual monitoring report will be submitted in conjunction with the developers wetland consultant's report on an annual basis by January 31st of the year following each managment season. Recommended adaptive management activities will be indicated in the report for the following year.



SHEET NUM	AS N( <sub>date:</sub> 2-1-2(	20231 scale:	PRINCIPAL:		 	ISSUED FC	PLANT LIST & SEED SPECIFICATIONS			
IBER:				ubmittal 9 Survey-Village Submittal	 	R:	PHILIP ESTATES SUBDIVISION	Philip Estates, LLC	The,	J N L Design Group, Inc.
4	LD project manage LD	LD REVIEWED BY:	DESIGNED BY:	e Submittal 11-	 	D/	CUBA ROAD LONG GROVE. ILLINOIS	8150 W. 159th Street Orland Park, IL 60462		1955 Raymond Drive Suite 119 Northbrook, Illinois 60062 224-269-4290
	R:			7-2023 10-20 -2020	 	ATE:				

### **GENERAL PLANTING / ACCEPTANCE SPECIFICATIONS**

#### 1. Field Verification

The Contractor shall verify all existing conditions and dimensions in the field prior to bidding and report any discrepancies to the Owner or his representative.

Protection of Existing Site and Existing Site Features The Contractor shall provide at his own expense, protection against trespassing and damage to seeded areas, planted areas and other construction areas until the preliminary acceptance. The Contractor shall provide barricades, temporary fencing, signs, written warning or policing as may be required to protect such areas.

The Contractor shall not be responsible for any damage caused by the Owner after such warning has been issued.

It shall be the Contractor's responsibility to locate and protect all existing above and below ground utilities when performing the work. The Contractor shall be responsible for the protection of crowns, trunks and roots of existing trees, shrubs, lawns, paved areas and other landscaped areas that are to remain

Existing trees which may be subject to construction damage shall be boxed, fenced or otherwise protected before any work is started. Boxing or other protection will be removed at the end of construction. Do not locate heavy equipment or stockpiles within the drip-line of existing plants or on lawns

Any damage to utilities, structures, plantings or lawn which results from the Contractor's work shall be repaired in kind at the Contractor's expense in a reasonably short period of time with as little inconvenience to the Owner as possible.

#### Planting Techniques

All planting techniques and methods shall be consistent with the latest edition of "Horticulture Standards of Nurserymen, Inc.", and as detailed on these drawings. All deciduous plant material shall be thin pruned to remove 1/3 interior branches, dead branches and broken branches. Pruning shall compliment plants natural form. Absolutely NO tip pruning is allowed, except hedges. Any plant that is tip pruned is subject to rejection by the Landscape Architect. Evergreen trees and shrubs shall be pruned of dead and broken branches and as directed by the Landscape Architect. All pruning work shall be done with hand pruners only.

#### Workmanship

A. All work shall be completed by qualified installers that are knowledgeable and experienced in operations they are performing.

B. Installation methods and procudures shall in accordance with the accepted industry practice and with standards of manufacturing and contracting associations applicable to all work.



#### Plant Material-On-Site 6.

Upon delivery to the site, all nursery stock shall be planted as soon as possible. Plants shall not be exposed to excessive sun or drying winds. Nursery stock which is not satisfactory in the opinion of the Landscape Architect of Record, or Owners representatives shall immediately replace with acceptable stock at the expense of the Contractor.

#### Plant Substitution

Substitution from the specified list will be accepted only when evidence in writing is submitted to the Landscape Architect, showing that the plant specified is not available. Requests for approval of substitute plant material shall include common and botanical names and size of substitute material. Only those substitutions of at least equivalent size and having essential characteristics similar to the originally specified material will be approved. Acceptance or rejection of substitute plant materials will be issued in writing by the Landscape Architect

Planting Soil

A. Topsoil Testing

The Contractor shall engage an approved agronomic soil testing laboratory. The cost of topsoil testing to be borne by the Contractor. Landscape architect shall approve in writing contractor's proposed soil testing laboratory.

#### B. Required topsoil Tests

and sodium adsorption ratio.

a Ordanic content

prior to site delivery.

standards

architect

below:

growth.

Mulch

10. Pre-emergent Herbicide to herbicide application.

thoroughly knit to the ground.

12 Subgrade Preparation and Owners Representatives. 13. Finish Grade Preparation smooth graded appearance. drainage structures.

prior to installing plantings and mulch.

1. Chemical analysis indicating:

- a. Chemical Analysis: pH, Phosphate phosphorous, potassium, calcium, magnesium, caution exchange capacity, organic matter, available phosphorous potassium exchangeable magnesium, percent base saturation, soluble salts by saturation, extract, estimated nitrogen release,
- b. Nutrient data to be given in parts per million (ppm)
- 2. Physical properties including:
- b. Particle size distribution including percentages of sand, silt, and clay; USDA textural class designation and sand fractionation by ASTMD 422-63
- C. Landscape Architect shall approve the topsoil source
- D. At the discretion of the Landscape Architect soil handling procedures and spreading operations will be demonstrated for conformance approval for conformance with industry
- E. Planting soil mix shall be protected from water and wind erosion by some type of temporary vegetative cover. All erosion methods shall be approved by the landscape
- F. Topsoil for landscape work shall be furnished as specified
- 1. A fertile, friable, sandy, loamy surface soil without admixture of subsoil and free of stones, stumps, root, trash, debris, and other materials deleterious to plant
- a. Particle size distribution Loam texture having the proper mix of sand, silt and clay distribution to give favorable fertility, water drainage, and water holding capacity for plant growth as well as soil strength. 2. The pH range shall be 6.8 to 7.4. Topsoil that does not meet this pH range will be amended by the addition of pH adjusters approved by the Landscape Architect. 3. Organic content shall not be less than 4% and not greater than 8% determined by loss through ignition.
- All shrub beds and individual trees shall be mulched with a minimum of 3" finely shredded hardwood or bark mulch. Perennial, groundcover and annual flower beds shall be mulched with 2" of decomposed compost.
- All shrub beds, individual tree rings and groundcover beds shall be treated with a pre-emergent herbicide prior to the mulch being installed. These areas shall be weed free prior
- 11.Sodding (IF IDENTIFIED ON PLAN)
- Sod shall be Kentucky Bluegrass and is required in all areas as noted on the landscape plan. Sod should be grown from at least four varieties of quality seed. Sodded slopes 3:1 or greater shall be staked to prevent erosion and washout. Watering shall continue until all sod areas are
- A. The Contractor shall examine the subgrade and verify that elevations are correct per the Civil Plans. Contractor shall observe the conditions under which the work is to be performed and ina written formay convey any and all concerns to the General Contractor.
- B. The rough grade shall be reviewed by the General Contractor, Civil Engineer, Landscape Architect of Record,
- A. Correct, adjust and / or repair rough graded areas including mounds and ridges. Fill gullies and depressional areas and perform other necessary repairs as needed for a
- B. Bring all subgrades to specified elevations, evenly and properly compacted along all hardscape edges and
- C. Generally, finish grade shall be 1 1/4" -2" below top of adjacent curbs, walks, and concrete slabs.
- Finish Grade tolerances is 0.1 ft. plus / minus from indicated contours and or elevations. Finish grade shall be reviewed by the General Contractor, Civil Engineer, Landscape Architect of Record, Owner's Representative

#### 14 Seeding

- All lawn areas on landscape plan specified to be seeded shall be treated below:
- A. Topsoil

Shall be spread over all areas to be seeded to a minimum depth of 6" wh (to be performed by those other than Landscape Contractor).

- B. Seed Mixture Application Rate
  - Kentucky Bluegrass (4 varieties): 70% Perennial Ryegrass: 10%
  - Redtop or Creeping Red Fescue: 20%
- C. Fertilization

Apply fertilizers and conditioners at the rate specified per soil test finding soil test results, apply two tons ground agricultural limestone and 1,000 equivalent analysis fertilizer per acre. At least 40% of the fertilizer nitrog an organic origin.

D. Watering

Seeded areas shall be watered to insure proper germination. Once seed germinated, watering may be decreased but the seedlings must never b out completely. Frequent watering should be continued for approximately after germination or until grass has become sufficiently established to wa on an "as needed" basis.

E. Establishment Turf is being established on a variety of slope conditions. It shall be the responsibility to determine and implement whatever procedures he deen establish the turf as part of his work. Seeded areas will be accepted whe a uniform stand of the specified grass in healthy condition and at least 60 elapsed since the completion of this work. The Contractor shall submit v description of the methods and procedures he intends to use.

#### 15. Preliminary Acceptance

All plantings shall be maintained by the Contractor for a period of 60 day preliminary acceptance by the Owner. Maintenance shall include, but is mowing and edging turf, pulling weeds, watering turf and plant material, a flower maintenance. Grass germination rates must meet 85% or greater

#### 16. Warrantv

A. Warranty: Warrant that all work in this section shall be free from defe materials and workmanship for a period of one (1) year from the date of the project. Warrant all plant materials, including pre-tagged or pre-purcl for a period of one year from the date of acceptance to be a good, health flourishing condition.

#### B. Acceptance Procedure:

Completion of Work: Upon completion of the work, a review by the Landscape Architect upon written notice requesting such a review the Contractor at least (10) days in advance of the anticipated date. The review shall be to determine whether or not the contractor has completed the contract, including maintenance of all planted areas.

2. Review for Substantial Completion: This review shall take pl time as the maintenance review. The Landscape Architect will make a re the warranty of planting areas and initiate the 60 day maintenance period requested, by the Contractor, as above specified, or as soon thereafter work is found to be in compliance with the Contract Documents, the Land Architect will notify in writing the Contractor and owner of the beginning warranty period.

3. Warranty Period: Make periodic inspections during the warra determine what changes should be made to the maintenance program. to the Landscape Architect any recommended changes. Upon completic warranty period submit a request for a review at least ten (10) days in ad anticipated date

4. Review for Final Acceptance & 11-Month Walk-thru: The La a review for Final Acceptance of the Contract work, including maintenand material. If the work is found to be in compliance, the Architect will recon acceptance by the Owner, exclusive of possible replacement of plants su warranty. If there are any deficiencies in the maintenance, the contractor of these deficiencies in writing and the work shall be subject to re-review acceptance.

#### 17. General Landscape Maintenance

A. Maintain trees and shrubs by pruning, cultivating, watering, weeding fertilizing, restoring planting saucers, tightening and repairing stakes and and resetting to proper grades or vertical position, as required to establish plantings. Spray as required to keep trees and shrubs free of insects and or replace damaged tree wrappings.

B. Maintenance Periods: Perform landscape maintenance, as specified for the following periods:

1. Initial Maintenance: The Contractor is responsible for mainte area until it has been granted preliminary acceptance by the Architect an period is formally started. Begin maintenance immediately upon delivery as each plant and each portion is planted, and continue until the end of maintenance period.

2. Work Not Included: Maintenance of project after the 60 day maintenance period performed by the Owner's work forces and are not Contract.

18. Natural Vegetated Areas General Maintenance (SEE LP-4 FOR MAI

 Maintenance of all detention pond and natural grass areas shall be car qualified ecological management company with experience with native lar

2. The gualified contractor shall visit the site to monitor the progress and

3. A native maintenance plan shall be submitted to the Owner and Lands a) Invasive Non-native weeds: Purple Loosestrife, and other non-na mechanically through the use of herbicide and / or hand pulling or a additional native seeding or planting will be required to ensure 85% b) Soil Erosion Control Management: All soil erosion control devices per Cross Engineering plans. Soil shall be permanently stabilized wit c) Monitoring: A meander search will be conducted throughout the All vegetation encountered will be identified to the species level. Se Overseeding may be necessary the following year to ensure complet

4) Control and removal of invasive woody and herbaceous plants is vital Specific recommendations for invasive plant removal will be made based

ed as specified when compacted hgs. In lieu of ) lbs. 10-10-10 or bgen shall be of eds have be allowed to dry ely four (4) weeks varrant watering		The J N L Design Group, Inc.         Planning + Landscape Architecture       1955 Raymond Drive         Suite 119       Northbrook, Illinois 60062         Northbrook, Illinois 60062       224-269-4290
e contractor's ems necessary to hen all areas show 60 days have with his bid a ays after is not limited to, l, and annual er for acceptance. ects of of Substantial Completion of		ss, LLC h Stree L 6046
chased materials, thy and will be made we submitted by re purpose of the ed all the work of place at the same review to begin od on the date ras possible. Of the ndscape g of the anty period to . Submit in writing ion of the advance of the Landscape Architect will make nce and replacement mmend subject to or will be notified w before g, if guy supports, lisch healthy, viable nd disease. Restore ed hereunder, tenance of each and the warranty ry to the site and ithe 60 day	SHEET TILE: LANDSCAPE SPECIFICATIONS	PHILIP ESTATES SUBDIVISION CUBA ROAD LONG GROVE, ILLINOIS
y required apart of this AINTENANCE REQUIREMENTS) arried out by a andscapes. d health of the native grass and stormwater naturalized areas. dscape Architect for approval. Plan shall include the following: ative weeds shall be controlled a combination of these methods. If necesssry 6 seed germination coverage. s, structures and features shall be installed with blanket and fully rooted grass. e native areas to assess establishment of the planted vegetation. eearch will be conducted in May/June or August / September. ete establishment. al to the success of the native established areas. ed on visual monitoring inspections.	Village Su REV Tree Village S PRINCIPAL: PROJECT NU 202311 SCALE: AS NC DATE: 2-1-20 SHEET NUME	Survey-Village Submittal 11-10-20 Submittal 3-9-2020 MBER: DESIGNED BY: UD NED REVIEWED BY: LD PROJECT MANAGER: LD