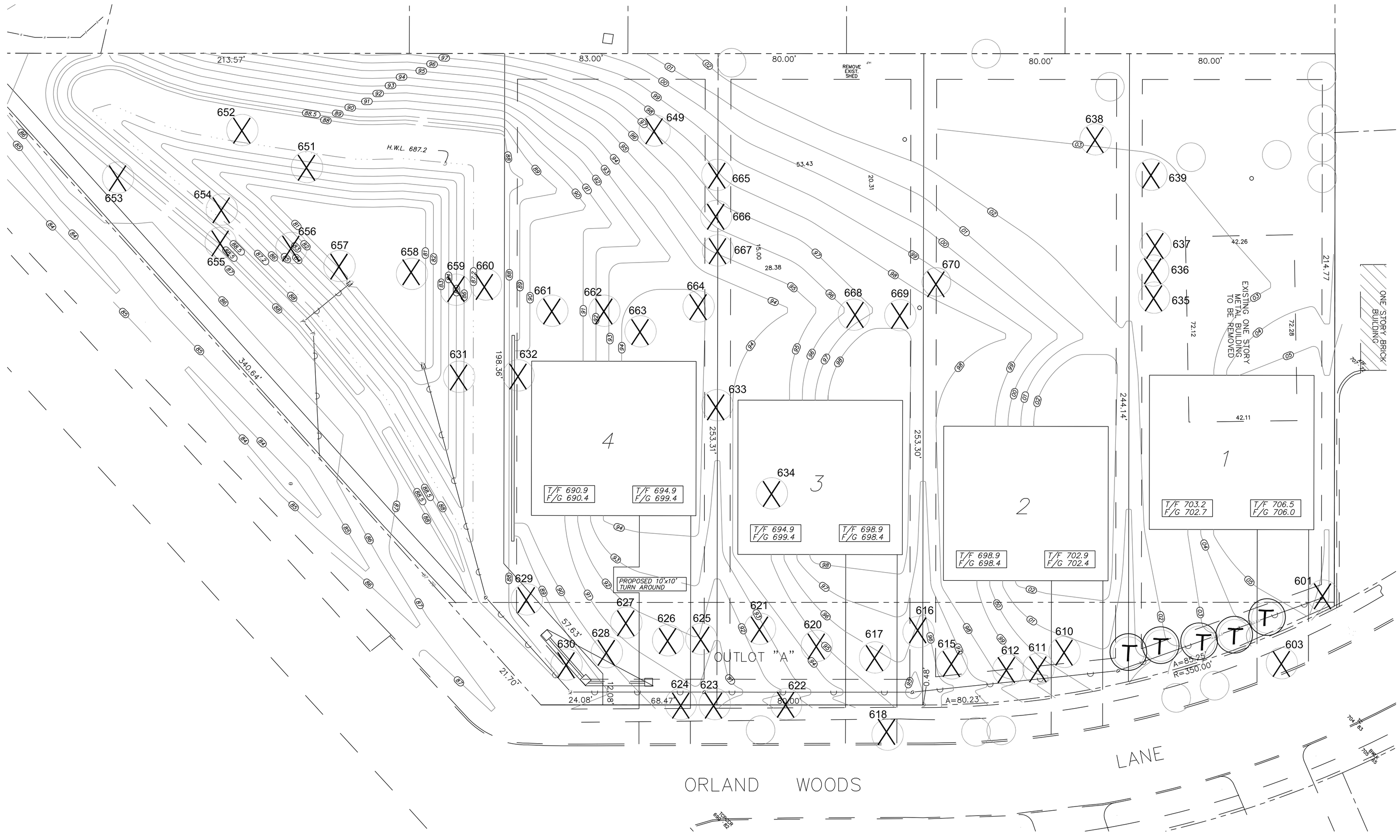

1 Existing Conditions and Removals Plan

SCALE: 1" = 20'-0"

0 20 40 60 80

Trees Removed

Deciduous 4"-12"
Ratio: 1 to 1 (4") or 2 to 1 (2.5")

603	Green Ash	7"
615	Bradford Pear	8"
616	Bradford Pear	8"
617	Bradford Pear	9"
618	Green Ash	7"
628	Red Maple	6"
631	Black Maple	12"
632	Black Maple	12"
633	Black Maple	12"
636	White Ash	10"
637	White Ash	8"
639	White Ash	12"
651	Black Walnut	8"
653	Green Ash	8"

Deciduous 13"-25"
Ratio: 2 to 1 (4") or 4 to 1 (2.5")

601	Siberian Elm	13"
620	Multi-stem Crabapple	17"
621	Multi-stem Crabapple	25"
629	Multi-stem Crabapple	22"
630	Multi-stem Crabapple	20"
634	Multi-stem Pear	23"
635	White Ash	17"
638	Black Walnut	19"
650	Siberian Elm	22"
652	Multi-stem Mulberry	19"
654	Locust	16"
660	Bur Oak	16"

Evergreen 6'-10'/4'-12'
Ratio: 1 to 1 (4") or 2 to 1 (2.5") or 1 to 1 (6'-10')

610	Blue Spruce	7"
611	Blue Spruce	6"
612	Green Spruce	6"
623	Austrian Pine	10"
624	Austrian Pine	10"
625	Austrian Pine	10"
626	Austrian Pine	9"
627	Austrian Pine	9"
655	Blue Spruce	10"
657	Green Spruce	12"
661	Green Spruce	12"
666	Multi-stem Arborvitae	10"
664	Austrian Pine	10"
669	Green Spruce	12"
670	Blue Spruce	17"

Deciduous 13"-25"
Ratio: 2 to 1 (4") or 4 to 1 (2.5")

649	Multi-stem Arborvitae	7"
656	Norway Spruce	13"
658	Blue Spruce	20"
659	Green Spruce	17"
662	Green Spruce	17"
663	Blue Spruce	16"
665	Multi-stem Arborvitae	15"
667	Multi-stem Arborvitae	15"
668	Blue Spruce	19"

TREES TO BE SAVED:

Save and protect fifteen (19) existing trees in their current location. Trees to be saved shall be protected as per recommendations below from the Tree Survey produced by Homer Tree Service:

Tree Pruning Requirements: All trees that are within the construction trauma zone should be properly pruned to remove dead and weak limbs, and also selective thinning to compensate for root loss, and to provide necessary clearances and elevations.

Root Pruning Requirements: All trees that are in close proximity of excavation should have root pruning done within 1 foot of excavation dig to allow for a clean wound closure and to promote new fibrous roots. A root pruner, stump grinder or suitable trencher can be used.

Tree Nutritional Requirements: All trees within the trauma zone should be treated with a soil injected liquid root fertilizer of proper analysis, and evenly distributed throughout the root zone. This is to improve overall vigor and to help in aeration of compacted soil.

Surface Mulching Requirements: All trees within the critical trauma zone should have layered wood mulch beds incorporated into the final landscape plan. This will improve soil structure, fertility, and aid in moisture retention. *Exposed surface roots should be protected during construction with a 12" layer of mulch.*

Grading and Backfill Requirements: No overfilling of soil should occur to tree root zones within a 10-15' radius to prevent root loss. Retention walls and drainage should be incorporated into the initial grading and landscape design concept.

Protective Barrier Requirements: A 4' plastic fence with posts on 10' centers should be installed to prevent any activity from occurring within limits of tree protection area. This fence should be maintained during the entire project. A sign should be placed at the project entrance to familiarize contractors with tree preservation techniques.

Site Monitoring Requirements: All trees listed on the survey should be monitored during and after construction for any possible health care issues that may be encountered. This should be done by a competent certified arborist who is capable of making onsite decisions that best protect the trees.

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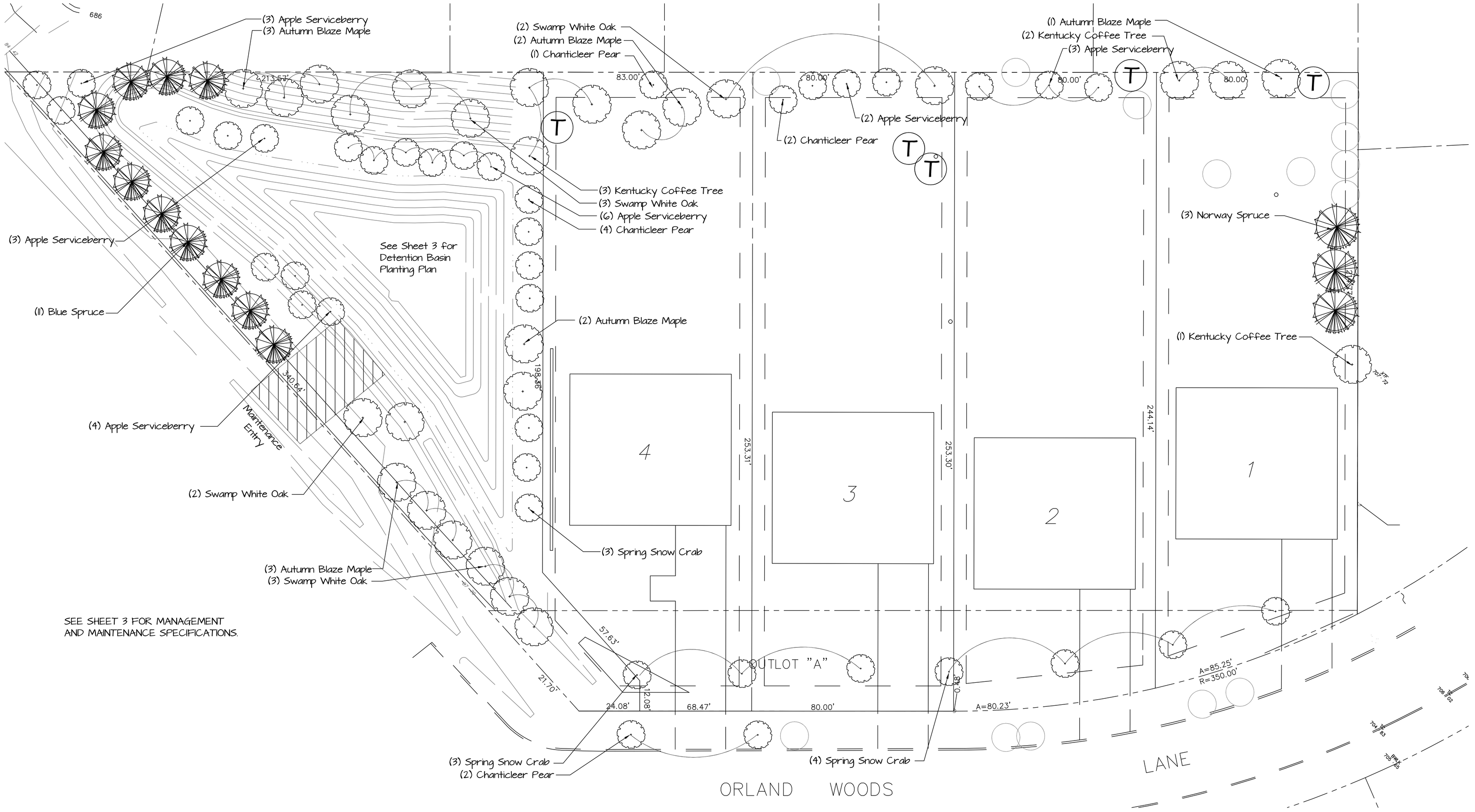
sheet title
Orland Woods Phase II
Demolition Plan

scale	AS NOTED
design	SJL
date	5/9/09
revision	11/12/13
revision	10/31/13
revision	

sheet 1 of 3 sheet(s)



1 Tree Mitigation Plan
SCALE: 1" = 20'-0"

0 20 40 60 80

TREES

NAME	QUANT	SIZE
Autumn Blaze Maple	11	4" BB
Kentucky Coffee Tree	6	2.5" BB
Swamp White Oak	10	4" BB

EVERGREEN TREES

NAME	QUANT	SIZE
Blue Spruce	11	7' BB
Norway Spruce	3	8' BB

ORNAMENTAL TREES

NAME	QUANT	SIZE
Chanticleer Pear	9	4" BB
Apple Serviceberry	21	8-10' Clump
Spring Snow Crab	7	8-10' Clump

TOTALS

Total 4" Trees Needed:	58
Total 4" Trees Provided:	58
Total 2.5" Trees Needed:	6
Total 2.5" Trees Provided:	6
Total Evergreen Trees Needed:	14
Total Evergreen Trees Provided:	14

TREES TO BE REMOVED & REPLACED:

- Remove Fourteen (14) deciduous trees (4" - 12" caliper) and Replace with fourteen (14) deciduous trees (4"caliper/10' clump)
- Remove twelve (12) deciduous trees (13" - 25" caliper) and Replace with twenty-four (24) deciduous trees (4"caliper/10' clump)
- Remove one (1) deciduous trees (25" caliper or greater) and Replace with six (6) deciduous trees (2.5"caliper)
- Remove fourteen (14) evergreen trees (4" - 12" caliper) and Replace with fourteen (14) evergreen trees (6' - 10' height)
- Remove nine (10) evergreen trees (13" - 25" caliper) and Replace with eighteen (20) deciduous trees (4"caliper/10' clump)

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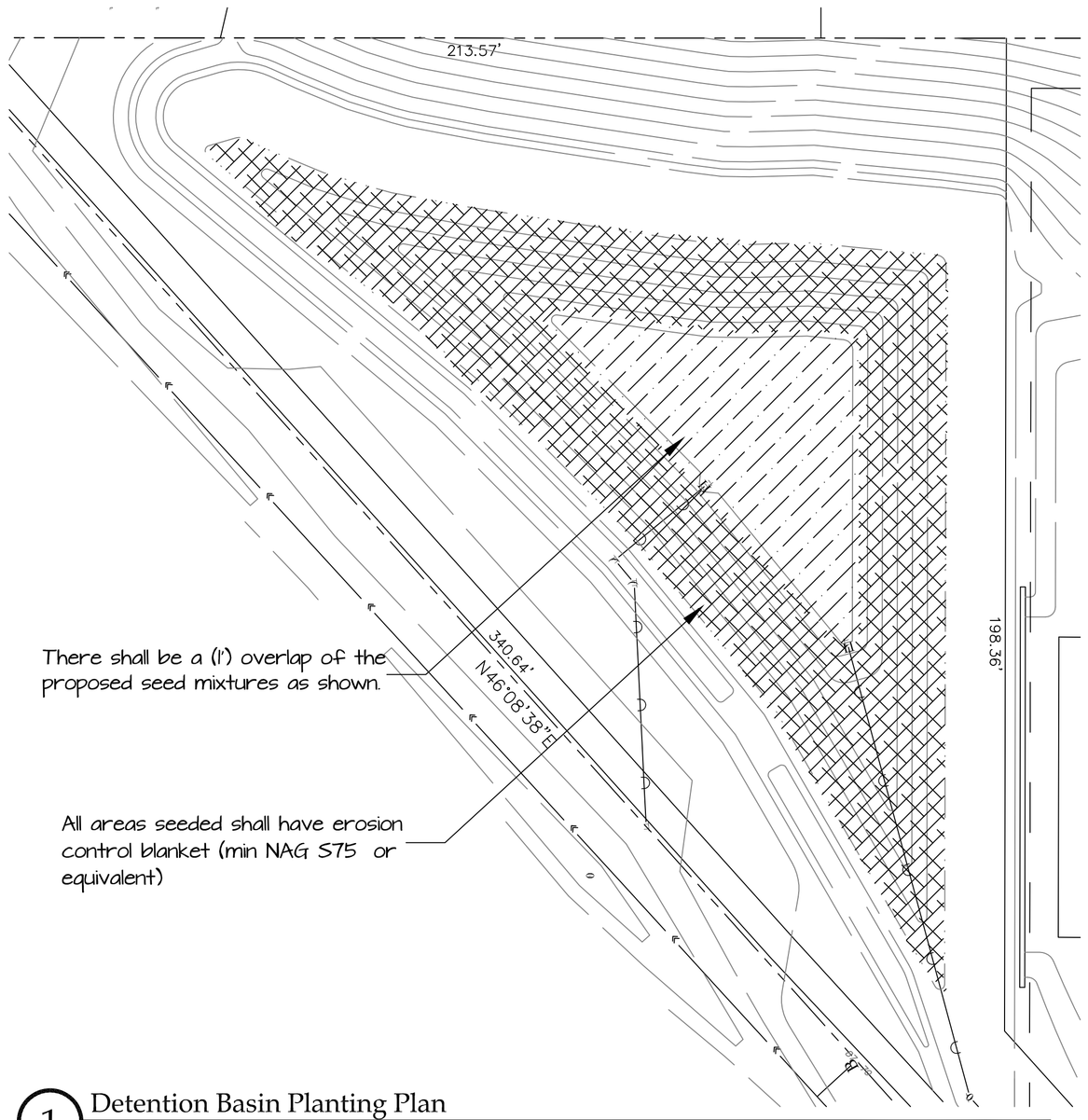
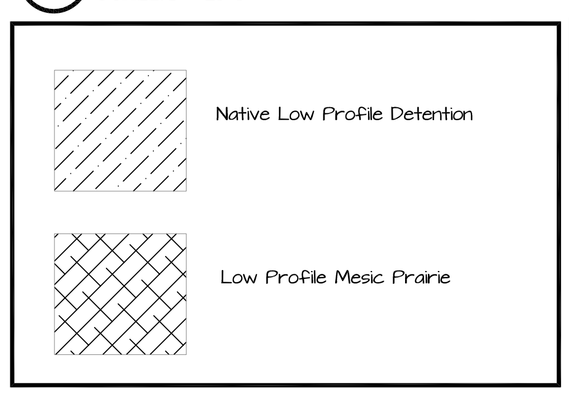
sheet title
Orland Woods Phase II
Tree Mitigation and Planting Plan

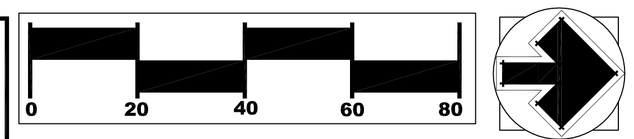
scale	AS NOTED
design	SJL
date	5/9/13
revision	11/12/13
revision	10/31/13
revision	

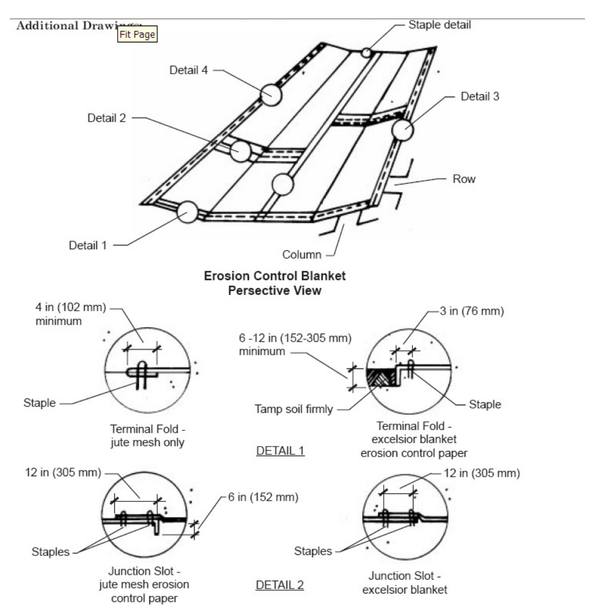
sheet
2
of 3 sheet(s)

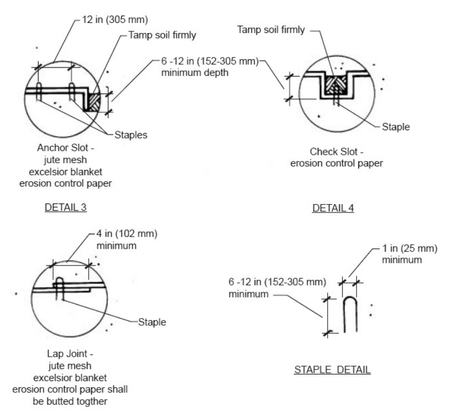


1 Detention Basin Planting Plan
SCALE: 1" = 20'-0"









Native Low Profile Detention

Seeding Time Frame:

May 15 - June 30
October 15 - December 1

National Seed Company
Lisle, Illinois

Agrostis alba (gigantea) Red Top Grass	0.500
Agrostis alba palustris Bent Grass	1.500
Echinochloa crusgalli Barnyard Grass	1.000
Avena sativa Seed oats	32.000
Alisma subcordatum Common Water Plantain	0.375
Asclepias incarnata Swamp Milkweed	0.063
Aster novae-angliae New England Aster	0.063
Aster simplex (lanceolatus) Panicled Aster	0.031
Bidens cernua Nodding Bur Marigold	0.313
Bidens frondosa Common Beggar's Tick	0.125
Bidens spp	0.250
Boehmeria cylindrica False Nettle	0.063
Boltonia latisquama False Aster	0.063
Carex bebbii Bebb's Sedge	0.125
Carex granularis Meadow Sedge	0.125
Carex lupuliformis Knobbed Hop Sedge	0.063
Carex scoparia Pointed Broom Sedge	0.015
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	0.500
Cyperus Species Flat Sedge Species	0.063
Eleocharis Species Spike Rush Species	0.015
Elymus canadensis Nodding Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	2.000
Glyceria striata Fowl Manna Grass	0.125
Helenium autumnale Sneezeweed	0.063
Juncus effusus Soft Rush	0.015
Juncus tenuis Path Rush	0.015
Juncus torreyi Torrey's Rush	0.015
Leersia oryzoides Rice Cut Grass	0.188
Ludwigia polycarpa False Loosestrife	0.001
Mimulus ringens Monkey Flower	0.031
Panicum dichotomiflorum Knee Grass	0.250
Penthorum sedoides Ditch Stonecrop	0.006
Poa palustris Marsh Blue Grass	0.250
Polygonum lapathiFolium Nodding Smartweed	0.500
Polygonum pensylvanicum Giant Smartweed	0.500
Sagittaria latifolia Duck Potato	0.063
Scirpus atrovirens Dark Green Rush	0.750
Scirpus pendulus (lineatus) Red Bulrush	0.125
Scirpus pungens (Schoenoplectus americanus) Chairmakers Rush	0.625
Teucrium canadensis Germander	0.031
Verbena hastata Blue Vervain	0.125
Totals	43.99125

Low Profile Mesic Prairie Mix

April 1 - June 1
August 15 - September 30

National Seed Company
Lisle, Illinois

Avena sativa Seed oats	32.00
Agropyron trachycaulum Slender Wheat Grass	0.75
Amorpha canescens Leadplant	0.125
Andropogon (Schizachyrium) scoparius Little Bluestem	3.00
Aster azureus (oolentangiensis) Sky Blue Aster	0.0625
Aster laevis Smooth Blue Aster	0.0625
Aster novae-angliae New England Aster	0.0625
Baptisia leucantha (alba macrophylla) White Indigo	0.0625
Bouteloua curtipendula Sideoats Gramma	3.00
Carex annectens Yellow-fruited Sedge	0.062
Carex bicknellii Bicknell's Sedge	0.062
Carex brevior "Shorter" Sedge	0.062
Cassia (Chamaecrista) fasciculata Partridge Pea	0.125
Echinacea pallida Pale Purple Coneflower	0.28125
Elymus canadensis Canadian Wild Rye	2.00
Eryngium yuccifolium Rattlesnake Master	0.1875
Heliopsis helianthoides Early Sunflower	0.125
Hypericum pyramidatum Great St John'swort	0.031
Lespedeza capitata Roundhead Bushclover	0.125
Liatris aspera Button Blazingstar	0.125
Liatris pycnostachya Prairie Blazingstar	0.1875
Monarda fistulosa Bergamot	0.03125
Parthenium integrifolium Wild Quinine	0.188
Panicum virgatum Switch Grass	0.063
Penstemon digitalis Foxglove Beardtongue	0.125
Petalostemum (Dalea) purpureum Purple Prairie Clover	0.063
Physostegia virginiana False Dragonhead	0.063
Potentilla arguta Prairie Cinquefoil	0.0625
Ratibida pinnata Yellow Coneflower	0.125
Rosa blanda Early Wild Rose	0.031
Rudbeckia hirta Black-eyed Susan	0.5
Rudbeckia subtomentosa Sweet Coneflower	0.031
Silphium integrifolium Rosin Weed	0.1875
Solidago nemoralis Oldfield Goldenrod	0.125
Solidago (Oligoneuron) riddellii Riddell's Goldenrod	0.0625
Solidago (Oligoneuron) rigida Stiff Goldenrod	0.0625
Sporobolus heterolepis Prairie Dropseed	0.25
Tradescantia ohiensis Ohio Spiderwort	0.125
Verbena stricta Hoary Vervain	0.125
Vernonia fasciculata Common Ironweed	0.1875
Vernonia missurica Missouri Ironweed	0.063
Veronicastrum virginicum Culver's Physic	0.00625
Totals	44.22525

SITE MAINTENANCE

THE OWNER OF THE PROPERTY, OR SUBSEQUENT OWNERS, SHALL BE JOINTLY AND GENERALLY RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE MATERIALS.

ANY PLANT MATERIALS SUCH AS SHRUBS, TREES AND GROUNDCOVERS THAT DIE, ARE IN DECLINE, OR SUPPORTING LESS THAN FIFTY PERCENT (50%) HEALTHY LEAF GROWTH SHALL BE REPLACED IN COMPLIANCE WITH THE APPROVED LANDSCAPE PLAN.

POTTED HERBACEOUS PERENNIAL PLANTS SHALL MEET OR EXCEED EIGHTY-FIVE PERCENT (85%) SURVIVORSHIP OF ALL PLANTS AND A MINIMUM SEVENTY FIVE PERCENT (75%) SURVIVORSHIP OF ANYONE SPECIES IN HEALTHY, VIGOROUS CONDITION, ONE FULL GROWING SEASON FOLLOWING ACCEPTANCE BY THE VILLAGE.

SEEDED GRASSES/SEDGES AND FORBS SHALL MEET OR EXCEED SEVENTY PERCENT (70%) PLANT COVER, WITH SEEDLINGS OF FIVE (5) PLANTED NATIVE SPECIES PRESENT AND WIDELY DISTRIBUTED, ONE FULL GROWING SEASON FOLLOWING ACCEPTANCE BY THE VILLAGE.

SEEDED GRASSES/SEDGES AND FORBS SHALL MEET OR EXCEED EIGHTY PERCENT (80%) PLANT COVER, FIVE PERCENT (5%) COVER BY PLANTED NATIVE GRASS/SEDGE SPECIES, TEN PERCENT (10%) COVER BY PLANTED FORB SPECIES, AND TWENTY PERCENT (20%) OF PLANTED SPECIES FOUND IN A HEALTHY AND VIGOROUS CONDITION AFTER TWO (2) FULL GROWING SEASONS.

SEEDED GRASSES/SEDGES AND FORBS SHALL MEET OR EXCEED NINETY FIVE PERCENT (95%) PLANT COVER, TWENTY PERCENT (20%) COVER BY PLANTED NATIVE GRASS/SEDGE SPECIES, FORTY PERCENT (40%) COVER BY PLANTED FORB SPECIES, AND FIFTY PERCENT (50%) OF PLANTED SPECIES FOUND IN A HEALTHY AND VIGOROUS CONDITION AFTER FOUR (4) FULL GROWING SEASONS.

PERENNIAL WEEDS - PERENNIAL WEEDS WILL NEED TO BE REMOVED BY HAND IN SOME CASES, OR WITH THE USE OF SPOT HERBICIDE TREATMENT. IF HERBICIDES ARE APPLIED, USE SPONGE APPLICATORS SO ONLY THE UNDESIRABLE PLANT IS TREATED AND THERE IS NO OVER SPRAY ONTO THE NATIVE SEEDLINGS. HERBICIDES SHALL BE HANDLED CAREFULLY AND USED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS. HERBICIDES SHALL BE APPLIED SHORTLY AFTER MOWING WHEN PERENNIALS WEEDS BEGIN TO GROW AGAIN. APPLYING THE HERBICIDE MAY BE NECESSARY FOR THE FIRST SEVERAL YEARS AFTER PLANTING THE SEED UNTIL THE DESIRABLE SEED IS ESTABLISHED. MAINTENANCE CONTRACTOR SHALL START TREATING PERENNIAL WEEDS EARLY IN THE GROWING SEASON AND CONTINUE TO HARD FROST.

ANNUAL WEEDS - ANNUAL WEEDS WILL GENERALLY OUT COMPETE NATIVE SEEDLINGS IF LEFT UNCHECKED. MOWING SHALL BE COMPLETED REGULARLY TO STUNT THE GROWTH OF THE UNDESIRABLE ANNUALS. THIS MAY BE NECESSARY FOR THE FIRST SEVERAL YEARS AFTER PLANTING THE SEED. ALLOW WEED ANNUALS TO REACH APPROXIMATELY 10" AND THEN MOW BACK TO APPROXIMATELY 8". THE RECOMMENDED MOWER IS A FLAIL MOWER OR A MULCHING MOWER. EXCESSIVE AMOUNTS OF CLIPPINGS FROM THE ANNUALS SHALL BE REMOVED BY RAKE AS TO NOT SMOTHER THE DESIRABLE SPECIES. MOWING SHALL CONTINUE THROUGH THE GROWING SEASON.

WEED IDENTIFICATION - WHEN INSTALLING SEED, CONTRACTOR SHALL LEAVE A 5' X 5' WITHOUT SEED IN A DISCREET AREA. THE TYPE OF PLANTS THAT GROW IN THAT AREA WILL BE THE UNDESIRABLE SPECIES. AFTER SPECIES ARE IDENTIFIED CONTRACTOR SHALL INSTALL DESIRABLE SEED IN TEST AREA.

CONTROLLED BURN - A CONTROLLED BURN MAY BE NECESSARY AFTER THE DESIRABLE SEED IS WELL ESTABLISHED. THIS MAY COME IN THE THIRD YEAR OR AFTER OF THE INITIAL PLANTING. MAINTENANCE CONTRACTOR SHALL CONTACT QUALIFIED REPRESENTATIVE TO EVALUATE THE NEED FOR THE BURN.

GENERAL NOTES:

1. THE LANDSCAPE CONTRACTOR CHOSEN FOR ESTABLISHMENT OF THE NATIVE PLANTINGS MUST BE EXPERIENCED IN THE INSTALLATION AND MANAGEMENT OF SAID AREAS, HAVING A MINIMUM OF FIVE YEARS FIELD EXPERIENCE. A SUPERVISOR WHO CAN IDENTIFY NONNATIVE AND NATIVE PLANTS BY GENUS AND SPECIES SHALL BE AVAILABLE AT ALL TIMES.

2. SEED SUPPLIED TO THE SITE SHOULD BE TAGGED WITH SEED SPECIES, WEIGHTS AND DOCUMENTATION OF PLS TESTING.

3. SEED INSTALLATION AND SITE PREPARATION SHALL FOLLOW IDOT SPECIFICATIONS, SECTION 250.0. BLANKET INSTALLATION SHALL FOLLOW 251.04. FERTILIZER WILL NOT BE REQUIRED FOR THE SEED MIXES LISTED. SEE BLANKET DETAIL THIS SHEET.

4. DISTRUSTED AREAS OUTSIDE OF THE DETENTION BASIN SEEDING SHALL RECEIVE BLUE GRASS SEED MIX AND BLANKET. SEED MIX SHALL BE 33% BLUE GRASS, 33% RED FESCUE AND 33% PERENNIAL RYE.

5. ALL PLANT AND SEED MATERIALS SHALL BE TRUE TO THEIR NAME AND VARIETY AS SPECIFIED. THEIR ORIGIN SHALL BE KNOWN TO BE LOCAL WITHIN A 150-MILE RADIUS OF THE PROJECT LOCATION AND SPECIES NATIVE TO NORTHERN ILLINOIS. PLANT ORIGINS BEYOND A 150-MILE RADIUS SHALL BE APPROVED BY OWNER/LANDSCAPE ARCHITECT.

6. THE OWNER RESERVES THE RIGHT TO INSPECT ALL SEED AND PLANTS EITHER AT THE PLACE OF GROWTH OR AT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR NAME, VARIETY, SIZE, QUANTITY, QUALITY, OR MIX PROPORTION. CONTRACTOR IS TO KEEP RECORDS OF THE CERTIFICATES OF COMPOSITION OR INVOICES OF SEED MIXTURES AND INTEGRITY OF PLANT MATERIALS WITH RESPECT TO SPECIES, VARIETY, AND SOURCE AFTER PURCHASE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER HANDLING AND STORAGE OF SEED AND PLANT MATERIALS ACCORDING TO THE BEST HANDLING AND STORAGE PRACTICES DURING LANDSCAPE WORK. MATERIALS AND EQUIPMENT SHALL BE PROTECTED FROM DAMAGE. PAVEMENT AND WORK AREAS AND ADJOINING AREAS SHALL BE KEPT CLEAN AND IN AN ORDERLY CONDITION.

8. ALL LANDSCAPING MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANTING PROCEDURES ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. SEEDING OF NATURAL LANDSCAPING AREAS WITH NATIVE SEED SHALL CONFORM TO GENERALLY ACCEPTED SEEDING PROCEDURES, METHODS, AND TIME FOR PRAIRIE PLANTINGS IN NORTHEASTERN ILLINOIS.

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