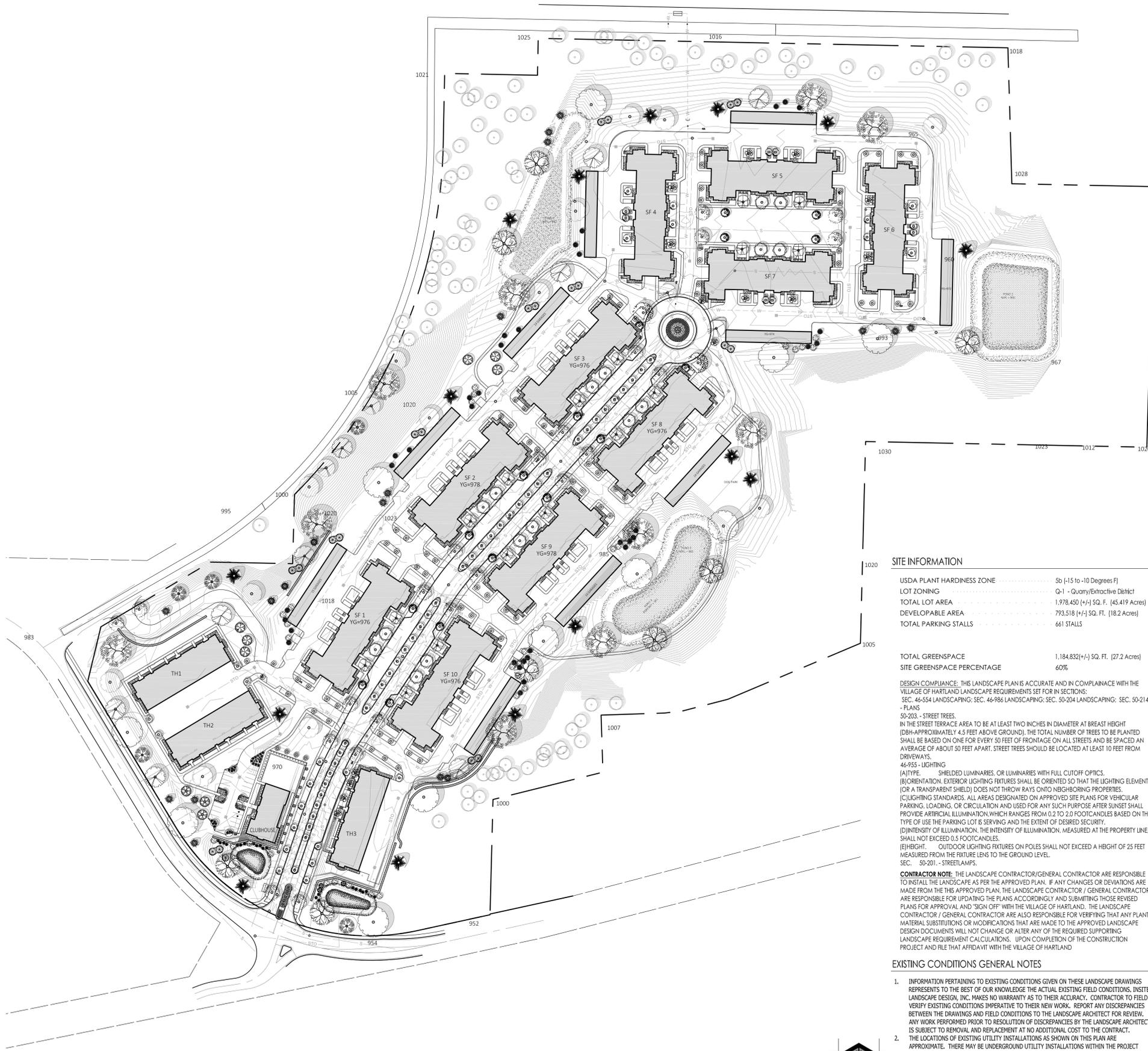


EXHIBIT 10

Landscape Plans & Specifications



1 PROPOSED LANDSCAPE PLAN

SCALE: 1" = 100'-0"



SITE INFORMATION

USDA PLANT HARDINESS ZONE: 5b (-15 to -10 Degrees F)
 LOT ZONING: Q-1 - Quarry/Extractive District
 TOTAL LOT AREA: 1,978.450 (+/-) SQ. FT. (45.419 Acres)
 DEVELOPABLE AREA: 1,793.518 (+/-) SQ. FT. (40.8 Acres)
 TOTAL PARKING STALLS: 661 STALLS

TOTAL GREENSPACE: 1,184,832 (+/-) SQ. FT. (27.2 Acres)
 SITE GREENSPACE PERCENTAGE: 60%

DESIGN COMPLIANCE: THIS LANDSCAPE PLAN IS ACCURATE AND IN COMPLIANCE WITH THE VILLAGE OF HARTLAND LANDSCAPE REQUIREMENTS SET FORTH IN SECTIONS: SEC. 46-554 LANDSCAPING; SEC. 46-986 LANDSCAPING; SEC. 50-204 LANDSCAPING; SEC. 50-214 PLANS

50-203 - STREET TREES
 IN THE STREET TERRACE AREA TO BE AT LEAST TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH APPROXIMATELY 4.5 FEET ABOVE GROUND). THE TOTAL NUMBER OF TREES TO BE PLANTED SHALL BE BASED ON ONE FOR EVERY 50 FEET OF FRONTAGE ON ALL STREETS AND BE SPACED AN AVERAGE OF ABOUT 50 FEET APART. STREET TREES SHOULD BE LOCATED AT LEAST 10 FEET FROM DRIVEWAYS

46-955 - LIGHTING
 (A) TYPE: SHIELDED LUMINAIRES, OR LUMINAIRES WITH FULL CUTOFF OPTICS.
 (B) ORIENTATION: EXTERIOR LIGHTING FIXTURES SHALL BE ORIENTED SO THAT THE LIGHTING ELEMENT (OR A TRANSPARENT SHIELD) DOES NOT THROW RAYS ONTO NEIGHBORING PROPERTIES.
 (C) LIGHTING STANDARDS: ALL AREAS DESIGNATED ON APPROVED SITE PLANS FOR VEHICULAR PARKING, LOADING, OR CIRCULATION AND USED FOR ANY SUCH PURPOSE AFTER SUNSET SHALL PROVIDE ADEQUATE ILLUMINATION WHICH RANGES FROM 0.2 TO 2.0 FOOT-CANDELES BASED ON THE TYPE OF USE THE PARKING LOT IS SERVING AND THE EXTENT OF DESIRED SECURITY.
 (D) INTENSITY OF ILLUMINATION: THE INTENSITY OF ILLUMINATION, MEASURED AT THE PROPERTY LINE, SHALL NOT EXCEED 0.5 FOOT-CANDELES.
 (E) HEIGHT: OUTDOOR LIGHTING FIXTURES ON POLES SHALL NOT EXCEED A HEIGHT OF 25 FEET MEASURED FROM THE FIXTURE LENS TO THE GROUND LEVEL.
 SEC. 50-201 - STREET LAMPS.

CONTRACTOR NOTE: THE LANDSCAPE CONTRACTOR/GENERAL CONTRACTOR ARE RESPONSIBLE TO INSTALL THE LANDSCAPE AS PER THE APPROVED PLAN. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THE THIS APPROVED PLAN, THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE RESPONSIBLE FOR UPDATING THE PLANS ACCORDINGLY AND SUBMITTING THOSE REVISED PLANS FOR APPROVAL AND "SIGN OFF" WITH THE VILLAGE OF HARTLAND. THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE ALSO RESPONSIBLE FOR VERIFYING THAT ANY PLANT MATERIAL SUBSTITUTIONS OR MODIFICATIONS THAT ARE MADE TO THE APPROVED LANDSCAPE DESIGN DOCUMENTS WILL NOT CHANGE OR ALTER ANY OF THE REQUIRED SUPPORTING LANDSCAPE REQUIREMENT CALCULATIONS. UPON COMPLETION OF THE CONSTRUCTION PROJECT AND FILE THAT AFFIDAVIT WITH THE VILLAGE OF HARTLAND

EXISTING CONDITIONS GENERAL NOTES

- INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THESE LANDSCAPE DRAWINGS REPRESENTS TO THE BEST OF OUR KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS. INSITE LANDSCAPE DESIGN, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IMPERATIVE TO THEIR WORK. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE LANDSCAPE ARCHITECT IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.
- THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA OF DISTURBANCE THAT ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ALIGNMENT OF WALLS. BRING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECTS ATTENTION PRIOR TO FABRICATION / CONSTRUCTION BEGINS.
- VERIFY LOCATION OF ACCESS PANELS w/ MECHANICAL AND ELECTRICAL EQUIPMENT FOR ACCESSIBILITY OF MECHANICAL & ELECTRICAL ITEMS. VERIFY LOCATIONS OF ALL BURIED UTILITIES AND STRUCTURES AND LOCATIONS OF ALL OVERHEAD WIRES.
- VERIFY LOCATION OF ALL EXISTING EASEMENTS.
- INSITE LANDSCAPE DESIGN, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF INSITE LANDSCAPE DESIGN, INC.

LANDSCAPE PLAN GENERAL NOTES

PLANT MATERIAL SHOWN ON LANDSCAPE PLAN IS DEPICTED AT MATURE GROWTH.

- AT LEAST SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AS GIVEN BY THE ELECTRIC, GAS, TELEPHONE, WATER, SEWER, AND CABLE TELEVISION COMPANIES, UTILITIES OR ENTITIES. REVIEW WITH OWNER'S REPRESENTATIVE SITE MECHANICAL, SITE ELECTRICAL AND LIGHTING, SITE GRADING AND DRAINAGE, SITE IRRIGATION AND ALL OTHER DRAWINGS PERTAINING TO UNDERGROUND UTILITY LOCATIONS. RECORD SET OF INFORMATION THE SAME AS IN POSSESSION OF OWNER'S REPRESENTATIVE. ALSO REVIEW OWNER'S "MARK SETS" OF ALL OF THESE DRAWINGS IN POSSESSION OF THE CONTRACTOR OR OWNER. MARK ALL SUCH UTILITIES ON THE SITE PRIOR TO COMMENCING. COORDINATE WITH OWNER BEFORE AND DURING CONSTRUCTION. REPAIR ANY DAMAGE TO ANY SYSTEM THAT IS CAUSED BY LANDSCAPE CONTRACTOR AT NO COST TO OWNER.
- ALL PLANTINGS SPECIFIED FOR THE HARTLAND QUARRY DEVELOPMENT PROJECT PLANTING TABLES SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1 2014 AND ANSI STANDARDS FOR PLANTING 2012.
- ALL DEVIATIONS FROM THE APPROVED HARTLAND QUARRY DEVELOPMENT PROJECT PLANS SHALL BE NOTED ON THE RECORD DRAWINGS BY THE CONTRACTOR AND MAY BE EXECUTED ONLY WITH PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. VERBAL AGREEMENTS OR REVISIONS WITHOUT A CHANGE ORDER WILL NOT BE RECOGNIZED BY LANDSCAPE ARCHITECT AND OWNER.
- ALL PLANTS MUST BE BID AND SELECTED PER THE SPECIES SPECIFIED ON THE PLANS. ANY SPECIES SUBSTITUTIONS MUST BE APPROVED IN WRITING BY LANDSCAPE ARCHITECT. THE SIZES OF PLANT MATERIAL LISTED HEREIN IS A MINIMUM ACCEPTABLE SIZE. ADDITIONALLY, IF EXCESSIVE PRUNING REDUCES THE CROWN THE PLANT SHALL BE REPLACED.
- PROTECT PUBLIC FROM CONSTRUCTION WITH BARRIERS AND BARRICADES.
- ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION AND AREAS NOT COVERED WITH PAVEMENT, BUILDING, PLANTING BEDS, OR TREE PITS ARE TO BE TOPSOILED 3" DEEP (MIN.) AND SHALL BE SODED/SEEDDED WITH SPECIFIED LAWN GRASS. LANDSCAPE CONTRACTOR SHALL INCLUDE COST PER SQUARE YARD FOR ADDITIONAL SEED OPERATIONS AS MAY BE POSSIBLY REQUIRED TO REESTABLISH ADJACENT TURF GRASS AREAS WHICH MAY BECOME DAMAGED DURING THE CONSTRUCTION PROCESS OR TO REPAIR DAMAGE DONE BY OTHERS.
- CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR PROPER PLANTING AND INSTALLATION OF ALL LANDSCAPE MATERIAL.
- QUANTITIES ON PLANT MATERIALS LIST ARE FOR CONVENIENCE OF BIDDING ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON LANDSCAPE PLANS AND COVERAGE OF ALL AREAS DELINEATED. THE PLANS ARE TO SUPERSEDE THE PLANT LIST IN ALL CASES.
- CONTRACTOR IS RESPONSIBLE FOR ALL ESTIMATING AND BIDDING, ALL AREAS, QUANTITIES MATERIALS SHOULD BE FIELD VERIFIED WITH SITE CONDITION.
- WHERE DISCREPANCIES OCCUR BETWEEN THE LANDSCAPE PLANS AND/OR ARCHITECTURAL AND/OR THE CIVIL DRAWINGS (AND ANY OTHER SITE DRAWINGS) THE DISCREPANCIES MUST BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION FOR COORDINATION AND RESOLUTION.
- ALL DISEASED, NOXIOUS OR INAPPROPRIATE MATERIALS SHALL BE REMOVED FROM THE PROPOSED SITE PRIOR TO THE START OF CONSTRUCTION AND DURING THE MAINTENANCE PERIOD.
- GENERAL CONTRACTOR SHALL LEAVE THE SITE FREE OF CONSTRUCTION DEBRIS.
- ALL LAWN AND PLANTING AREAS SHALL SLOPE TO DRAIN A MINIMUM OF 2% UNLESS NOTED OTHERWISE AND REVIEWED WITH OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.
- FINISH GRADES FOR SHRUB AND GROUND COVER AREAS SHALL BE HELD 1" BELOW TOP OF ADJACENT PAVEMENTS AND CURBS, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO LSP1.9 FOR FURTHER INFORMATION.
- PERMANENT ANNUAL AND GROUND COVER AREAS TO RECEIVE A BLEND OF ORGANIC SOIL AMENDMENTS PRIOR TO PLANTING. TILL THE FOLLOWING MATERIALS INTO EXISTING TOPSOIL TO A DEPTH OF APPROXIMATELY 8". A DEPTH OF 12" IN TREE PITS. PROPORTIONS AND QUANTITIES MAY REQUIRE ADJUSTMENT DEPENDING ON THE CONDITION OF EXISTING SOIL. REFER TO LSP1.9 FOR FURTHER INFORMATION.
 PER EVERY 100 SQUARE FEET ADD: ONE - 2 CUBIC FOOT BALE OF PEAT MOSS, 2 POUNDS OF 5-10-5 GARDEN FERTILIZER, 1/4 CUBIC YARD OF COMPOSTED MANURE OR OTHER COMPOSTED, ORGANIC MATERIAL.
- ALL SHRUBS TO BE POCKET PLANTED WITH A 50/50 MIX OF COMPOSTED, ORGANIC MATERIAL AND EXISTING SOIL. INSTALL TOPSOIL INTO ALL BEDS AS NEEDED TO ACHIEVE PROPER GRADE. REMOVE ALL EXCESSIVE GRAVEL, CLAY AND STONES. REFER TO LSP1.9 FOR FURTHER INFORMATION.
- PLANT ALL TREES SLIGHTLY HIGHER THAN FINISHED GRADE AT ROOT FLARE. BACK FILL HOLE WITH 2/3 EXISTING TOPSOIL AND ORGANIC SOIL AMENDMENTS SPECIFIED IN NOTE 15. AVOID ANY AIR POCKETS. DISCARD ANY GRAVEL CLAY OR STONES. REFER TO LSP1.9 FOR FURTHER INFORMATION.
- ALL TREES TO BE INSTALLED, STAKED AND GUYED ACCORDING TO DETAILS. REFER TO ANSI STANDARDS FOR PLANTING 2012 AND DETAILS ON LSP1.9 FOR FURTHER INFORMATION.
- PROVIDE A 4'-0" - 5'-0" DIAMETER MULCH RING AT THE ROOT BALL FLARE OF ALL LAWN TREES.
- ALL PLANTINGS TO BE WATERED AT THE TIME OF PLANTING, THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED.
- WHERE SPECIFIED, ALL PLANT BEDS, PITS AND TREE RINGS ARE TO RECEIVE A MINIMUM OF 2" - 3" DRESSING OF SHREDDED HARDWOOD OAK BARK MULCH SHAVINGS FREE OF GROWTH, WEEDS, FOREIGN MATTER DETRIMENTAL TO PLANT LIFE OR GERMINATION INHIBITING INGREDIENTS. LANDSCAPE CONTRACTOR TO PROVIDE A SAMPLE TO OWNER FOR APPROVAL. CONTRACTOR TO TAKE CARE WITH INSTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO LSP1.9 FOR FURTHER INFORMATION.
- LAWN INSTALLATION: CONTRACTOR TO FURNISH AND PREPARE TOPSOIL (3" MIN) AND SEED BED (REMOVE ALL STONES 1" OR LARGER), APPLY STARTER FERTILIZER AND SEED UNIFORMLY. PROVIDE A MULCH COVERING SUITABLE TO GERMINATE AND ESTABLISH TURF. EROSION CONTROL MESH SHOULD BE USED IN SWALES AND STEEP GRADES WHERE APPLICABLE. METHODS OF INSTALLATION MAY VARY AT THE DISCRETION OF CONTRACTOR. IT IS HIS/HER RESPONSIBILITY TO ESTABLISH AND GUARANTEE A SMOOTH, UNIFORM, QUALITY TURF. IF STRAW MULCH IS USED AS A COVERING, A TACKIFIER MAY BE NECESSARY TO AVOID WIND DAMAGE.
- DELUXE 50 GRASS SEED MIX REINDER'S (800) 785-3301**
 20% KENTUCKY BLUE GRASS
 15% NEWPORT KENTUCKY BLUE GRASS
 15% SR 2100 Kentucky Bluegrass
 25% Creeping Red Fescue
 15% Replicator Perennial Ryegrass
 10% Fiesta 4 Perennial Ryegrass
 APPLY AT A RATE OF 200 POUNDS PER ACRE. REFER TO SUPPLIERS SPECIFICATIONS & INSTALLATION CUT SHEETS FOR FURTHER FORMATION
- DURING THE INITIAL "30 DAY MAINTENANCE PERIOD" THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE AND ON-GOING PLEASANT VISUAL ENVIRONMENT WHEREAS ANY PLANT WHICH IS NOT RESPONDING TO TRANSPLANTING OR THRIVING SHALL IMMEDIATELY BE REPLACED. NEW LAWNS SHALL BE WATERED AND REPAIRED AND WEEDS MUST CONSTANTLY BE REMOVED, NO EXCEPTIONS WILL BE GRANTED.
 MAINTENANCE NOTE:
 MAINTENANCE IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN REQUIRED LANDSCAPING IN ACCORDANCE WITH THE MUNICIPALITY'S PROPERTY MAINTENANCE CODE AND AN APPROVED MAINTENANCE PLAN. THE MAINTENANCE MUST INCLUDE, AT A MINIMUM, METHODS FOR PROVIDING THE FOLLOWING:
 • NECESSARY IRRIGATION (IF REQUIRED)
 • INTEGRATED PEST MANAGEMENT,
 • PROPER FERTILIZATION
 • TREE CARE AND PRUNING, SHRUB TIP CLIPPING AND SHARPING AS REQUIRED
 • REPLACEMENT OF LOST VEGETATION, AND ALL DISEASED, DAMAGED, OR DEAD MATERIAL WILL BE REPLACED BY THE END OF THE FOLLOWING PLANTING SEASON IN PERPETUITY. FOR REPLACEMENT IN PERPETUITY REFER TO APPROVED DEVELOPERS AGREEMENT.
 • WEED MANAGEMENT AND BED CARE.
- ALL NEWLY PLANTED TREES AND SHRUBS ARE TO RECEIVE AN APPLICATION OF AN ANTI-TRANSPLANT SPRAY THAT WILL EFFECTIVELY REDUCE THE WATER LOSS OF TRANSPIRATION OF PLANT MATERIAL AND REDUCE THE STRESS OF TRANSPLANTATION. IT IS RECOMMENDED AS PART OF THE ONGOING MAINTENANCE PLAN TO APPLY BROADLEAF EVERGREEN AND CONIFEROUS TREE AND SHRUBS (EXCLUDING ARBORVITAE) RECEIVE AN APPLICATION OF AN ANTI-DESICCANT SPRAY TO REDUCE THE LOSS OF MOISTURE DUE TO WINTER DESICCATION.
- MAINTENANCE. THE OWNER SHALL TEND AND MAINTAIN ALL PLANT MATERIALS IN A HEALTHY GROWING CONDITION AS PER THE APPROVED MAINTENANCE PLAN AND APPROVED PLAN DOCUMENTS. PLANTINGS SHALL BE REPLACED WHEN NECESSARY AND KEPT FREE FROM REFUSE & DEBRIS. ALL PLANTING MATERIAL WHICH IS DYING OR DAMAGED BEYOND RECOVERY SHALL BE REPLACED WITHIN SIX (6) MONTHS OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST. REFER TO ADDITIONAL INFORMATION REGARDING INSTALLATION AND MAINTENANCE FOR THE SPECIFIED SEED MIXES ON PER CUT SHEET PROVIDED ON LSP1.15.
- LANDSCAPE / SITE DEMOLITION CONTRACTOR TO VERIFY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE SALVAGED AND CLEARLY TAG THEM WITH MARKING TAPE AND CONSTRUCTION FENCE.

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Project:
HARTLAND QUARRY DEVELOPMENT
 700 W. Capitol Drive
 Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
07/06/23		Plan Commission Submittal

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Sheet Title:
 PROPOSED LANDSCAPE PLAN,
 GENERAL NOTES,
 AND PLANT MATERIAL TABLE

Date of Drawing: 07/06/23
 Scale: 1" = 100'-0"
 Drawn By: MCD
 Job Number: L23-043
 Sheet Number:

LSP1.1

TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

DIGGERS HOT LINE

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM OF 3 DAYS NOTICE BEFORE YOU EXCAVATE (NOT INCLUDING SATURDAY, SUNDAY OR LEGAL HOLIDAYS)

UNDERGROUND SEWER AND UTILITY INFORMATION AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN CALL THE MILWAUKEE UTILITY ALERT NETWORK
 www.Diggershotline.com
 (800) 242-8511 OR

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

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Project:

HARTLAND QUARRY DEVELOPMENT

700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
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Sheet Title:

PROPOSED LANDSCAPE PLAN,
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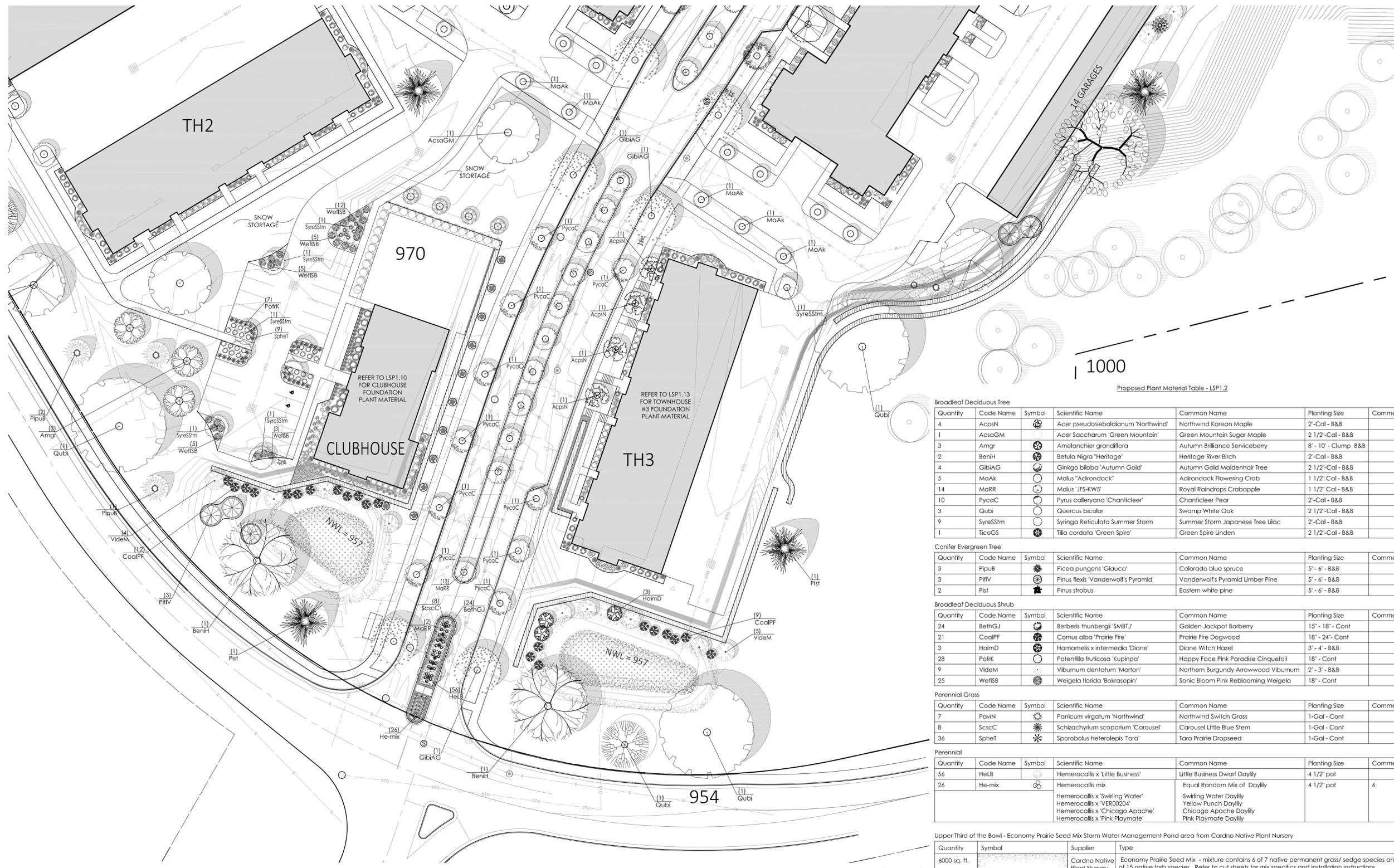
Scale: 1" = 30'-0"

Drawn By: MCD

Job Number: L23-043

Sheet Number:

LSP1.2



Proposed Plant Material Table - LSP1.2

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
4	AcpsN		Acer pseudobaldianum 'Northwind'	Northwind Korean Maple	2'-Cal - B&B	
1	Acsgm		Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2'-Cal - B&B	
3	Amgr		Amelanchier grandiflora	Autumn Brilliance Serviceberry	8' - 10' - Clump B&B	
2	BerH		Betula nigra 'Heritage'	Heritage River Birch	2'-Cal - B&B	
4	GibiAG		Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	2 1/2'-Cal - B&B	
5	MaAK		Malus 'Adirondack'	Adirondack Flowering Crab	1 1/2' Cal - B&B	
14	MaRR		Malus 'JFS-KW5'	Royal Raindrops Crabapple	1 1/2' Cal - B&B	
10	PycaC		Pyrus calleryana 'Chanticleer'	Chanticleer Pear	2'-Cal - B&B	
3	Qubi		Quercus bicolor	Swamp White Oak	2 1/2'-Cal - B&B	
9	SyresStm		Syringa reticulata Summer Storm	Summer Storm Japanese Tree Lilac	2'-Cal - B&B	
1	TicoGS		Tilia cordata 'Green Spire'	Green Spire Linden	2 1/2'-Cal - B&B	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
3	PipuB		Picea pungens 'Glauca'	Colorado blue spruce	5' - 6' - B&B	
3	Pifiv		Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	5' - 6' - B&B	
2	Pist		Pinus strobus	Eastern white pine	5' - 6' - B&B	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
24	BethGJ		Berberis thunbergii 'SMBTJ'	Golden Jackpot Barberry	15" - 18" - Cont	
21	CoalPF		Cornus alba 'Prairie Fire'	Prairie Fire Dogwood	18" - 24" - Cont	
3	HaimD		Hamamelis x intermedia 'Diane'	Diane Witch Hazel	3' - 4' - B&B	
28	PotrK		Potentilla fruticosa 'Kupinga'	Happy Face Pink Paradise Cinquefoil	18" - Cont	
9	VideM		Viburnum dentatum 'Morton'	Northern Burgundy Arrowwood Viburnum	2' - 3' - B&B	
25	WeiISB		Weigela florida 'Bokrasopin'	Sonic Bloom Pink Reblooming Weigela	18" - Cont	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
7	Pavin		Panicum virgatum 'Northwind'	Northwind Switch Grass	1-Gal - Cont	
8	ScscC		Schizachyrium scaparium 'Carousel'	Carousel Little Blue Stem	1-Gal - Cont	
36	SphET		Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	1-Gal - Cont	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
56	HelB		Hemerocallis x 'Little Business'	Little Business Dwarf Daylily	4 1/2' pot	
26	He-mix		Hemerocallis mix	Equal Random Mix of Daylily	4 1/2' pot	6
			Hemerocallis x 'Swirling Water'	Swirling Water Daylily		
			Hemerocallis x 'VER00204'	Yellow Punch Daylily		
			Hemerocallis x 'Chicago Apache'	Chicago Apache Daylily		
			Hemerocallis x 'Pink Playmate'	Pink Playmate Daylily		

Quantity	Symbol	Supplier	Type
6000 sq. ft.		Cardno Native Plant Nursery	Economy Prairie Seed Mix - mixture contains 6 of 7 native permanent grass/ sedge species and 10 of 15 native forb species. Refer to cut sheets for mix specifics and installation instructions.

Quantity	Symbol	Supplier	Type
12,000 sq. ft.		Cardno Native Plant Nursery	Stormwater Prairie Seed Mix - mixture contains 10 of 12 native permanent grass/ sedge species and 12 of 16 native forb species. Refer to cut sheets for mix specifics and installation instructions.

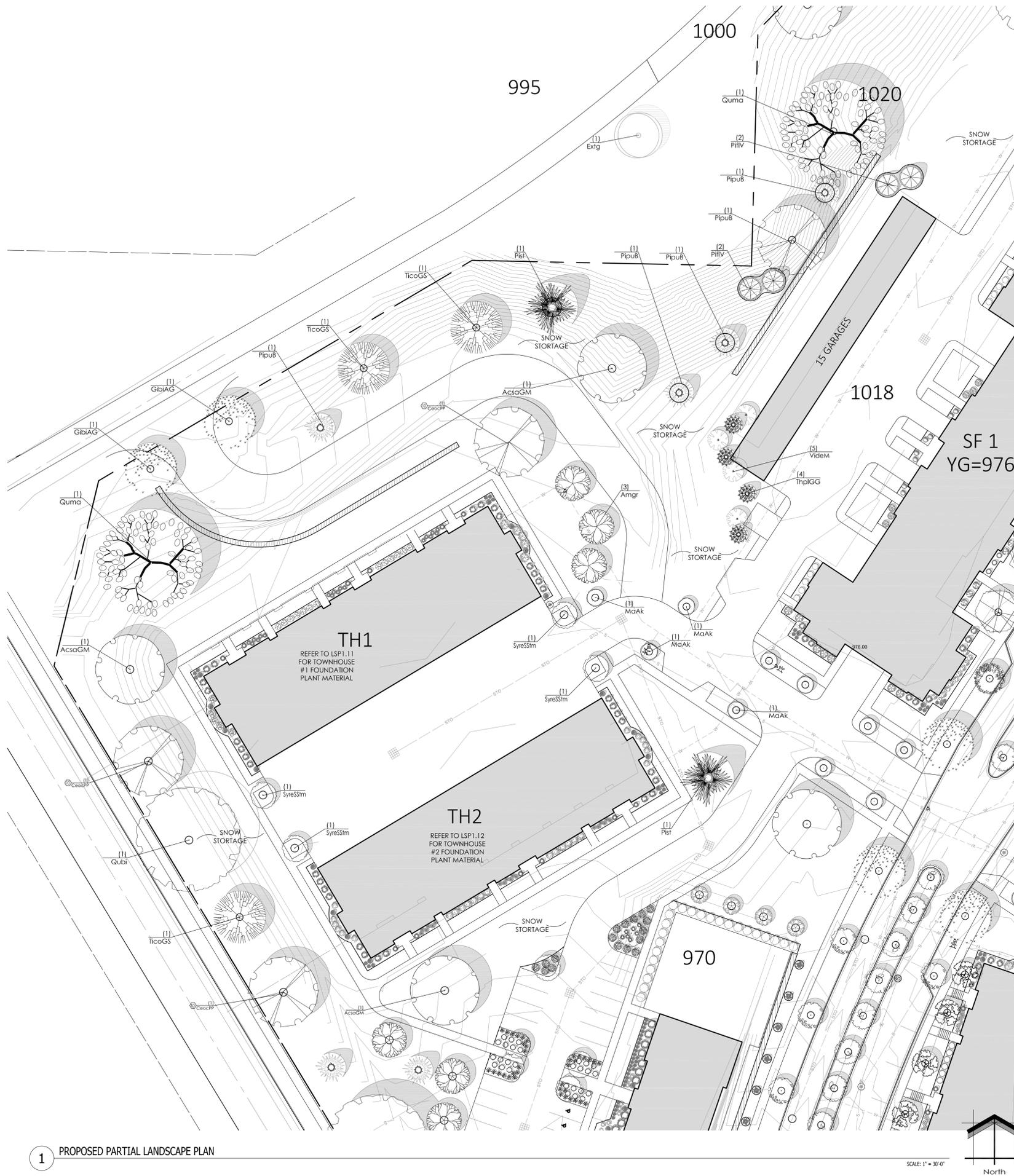
- Comments
- Straight central leader, full & even crown. Prune only after planting.
 - Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 - Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 - Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 - Evenly shaped upright tree with full branching to the ground.
 - Full, well rooted plant, evenly shaped.
 - Full, well rooted plant.
 - Male only
 - Tree-form, Single Stem Specimen
 - At grade coverage points for this plant do not contribute to the 10% coverage area requirement.

1 PROPOSED PARTIAL LANDSCAPE PLAN

SCALE: 1" = 30'-0"



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Proposed Plant Material Table - LSP1.3

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
3	AcsaGM		Acer Saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2'-Cal - B&B	
3	Amgr		Amelanchier grandiflora	Autumn Brilliance Serviceberry	8' - 10' - Clump B&B	
4	CeocPP		Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2 1/2'-Cal - B&B	
2	GibiAG		Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	2 1/2'-Cal - B&B	
4	MaAk		Malus 'Adirondack'	Adirondack Flowering Crab	1 1/2' Cal - B&B	
1	Qubi		Quercus bicolor	Swamp White Oak	2 1/2'-Cal - B&B	
2	Quma		Quercus macrocarpa	Bur oak	2 1/2'-Cal - B&B	
4	SyreSStm		Syringa Reticulata Summer Storm	Summer Storm Japanese Tree Lilac	2'-Cal - B&B	
3	TicoGS		Tilia cordata 'Green Spire'	Green Spire Linden	2 1/2'-Cal - B&B	
-	Extg		Existing To Remain	Existing To Remain	Existing	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
3	PipuB		Picea pungens 'Glauca'	Colorado blue spruce	5' - 6' - B&B	
3	PiPiV		Pinus Illex 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	5' - 6' - B&B	
2	PiSt		Pinus strobus	Eastern white pine	5' - 6' - B&B	
4	ThpIGG		Thuja plicata 'Green Giant'	Green Giant Arborvitae	5' - 6' - B&B	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
4	VideM		Viburnum dentatum 'Morton'	Northern Burgundy Arrowwood Viburnum	2' - 3' - B&B	

Quantity	Symbol	Supplier	Type
TBD sq. ft.		REINDER'S	NO-MOW LOW GROW GRASS SEED MIX - mixture contains native fescue and rye permanent grass species. Refer to cut sheets for mix specifics and installation instructions.

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 5. Evenly shaped upright tree with full branching to the ground.
 6. Full, well rooted plant, evenly shaped.
 7. Full, well rooted plant.
 8. Male only
 9. Tree-form, Single Stem Specimen
 10. At grade coverage points for this plant do not contribute to the 10% coverage area requirement.

Project:
HARTLAND QUARRY DEVELOPMENT
700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
07/06/23		Plan Commission Submittal

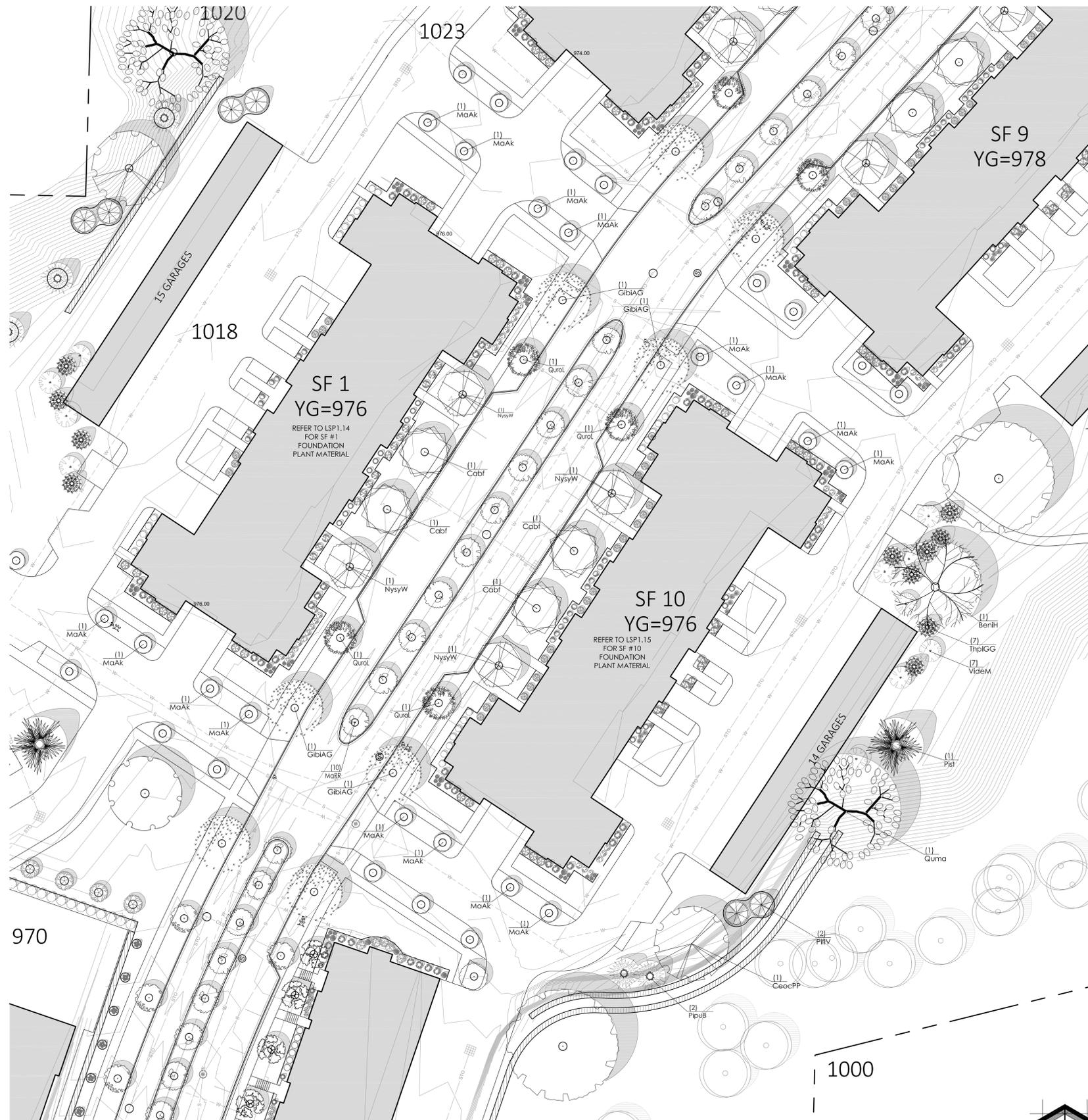
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Sheet Title:
PROPOSED LANDSCAPE PLAN,
GENERAL NOTES,
AND PLANT MATERIAL TABLE

Date of Drawing: 07/06/23
Scale: 1" = 30'-0"
Drawn By: MCD
Job Number: L23-043
Sheet Number:

LSP1.3

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Proposed Plant Material Table - LSP1.4

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
1	BenH		Betula Nigra 'Heritage'	Heritage River Birch	2'-Cal - B&B	
4	Cabf		Carpinus betulus 'Fastigiata'	Pyramidal European Hornbeam	2'-Cal - B&B	
1	CeocPP		Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2 1/2'-Cal - B&B	
4	GbiAG		Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	2 1/2'-Cal - B&B	
16	MaAk		Malus 'Adirondack'	Adirondack Flowering Crab	1 1/2' Cal - B&B	
10	MaRR		Malus 'JFS-KWS'	Royal Raindrops Crabapple	1 1/2' Cal - B&B	
4	NysyW		Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	2 1/2'-Cal - B&B	
1	Qubi		Quercus bicolor	Swamp White Oak	2 1/2'-Cal - B&B	
1	Quma		Quercus macrocarpa	Bur oak	2 1/2'-Cal - B&B	
4	QuroL		Quercus robur x bicolor 'Long'	Regal Prince Oak	2'-Cal - B&B	
-	Extg		Existing To Remain	Existing To Remain	Existing	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
2	PipuB		Picea pungens 'Glauca'	Colorado blue spruce	5' - 6' - B&B	
1	PiIV		Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	5' - 6' - B&B	
1	Pist		Pinus strobus	Eastern white pine	5' - 6' - B&B	
7	ThpGG		Thuja plicata 'Green Giant'	Green Giant Arborvitae	5' - 6' - B&B	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
7	VideM		Viburnum dentatum 'Morton'	Northern Burgundy Arrowwood Viburnum	2' - 3' - B&B	

Quantity	Symbol	Supplier	Type
TBD sq. ft.		RENDER'S	NO-MOW LOW GROW GRASS SEED MIX - mixture contains native fescue and rye permanent grass species. Refer to cut sheets for mix specifics and installation instructions.

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 5. Evenly shaped upright tree with full branching to the ground.
 6. Full, well rooted plant, evenly shaped.
 7. Full, well rooted plant.
 8. Male only
 9. Tree-form, Single Stem Specimen
 10. At grade coverage points for this plant do not contribute to the 10% coverage area requirement.

INSITE
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11525 W. North Avenue, Suite 1B
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Project:
HARTLAND QUARRY DEVELOPMENT
700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
07/06/23		Plan Commission Submittal

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Sheet Title:
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GENERAL NOTES,
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Date of Drawing: 07/06/23
Scale: 1" = 30'-0"
Drawn By: MCD
Job Number: L23-043
Sheet Number:

LSP1.4

1 PROPOSED PARTIAL LANDSCAPE PLAN

SCALE: 1" = 30'-0"



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Project:

HARTLAND QUARRY DEVELOPMENT

700 W. Capitol Drive
Hartland, WI 53029

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Sheet Title:

PROPOSED LANDSCAPE PLAN,
GENERAL NOTES,
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Date of Drawing: 07/06/23

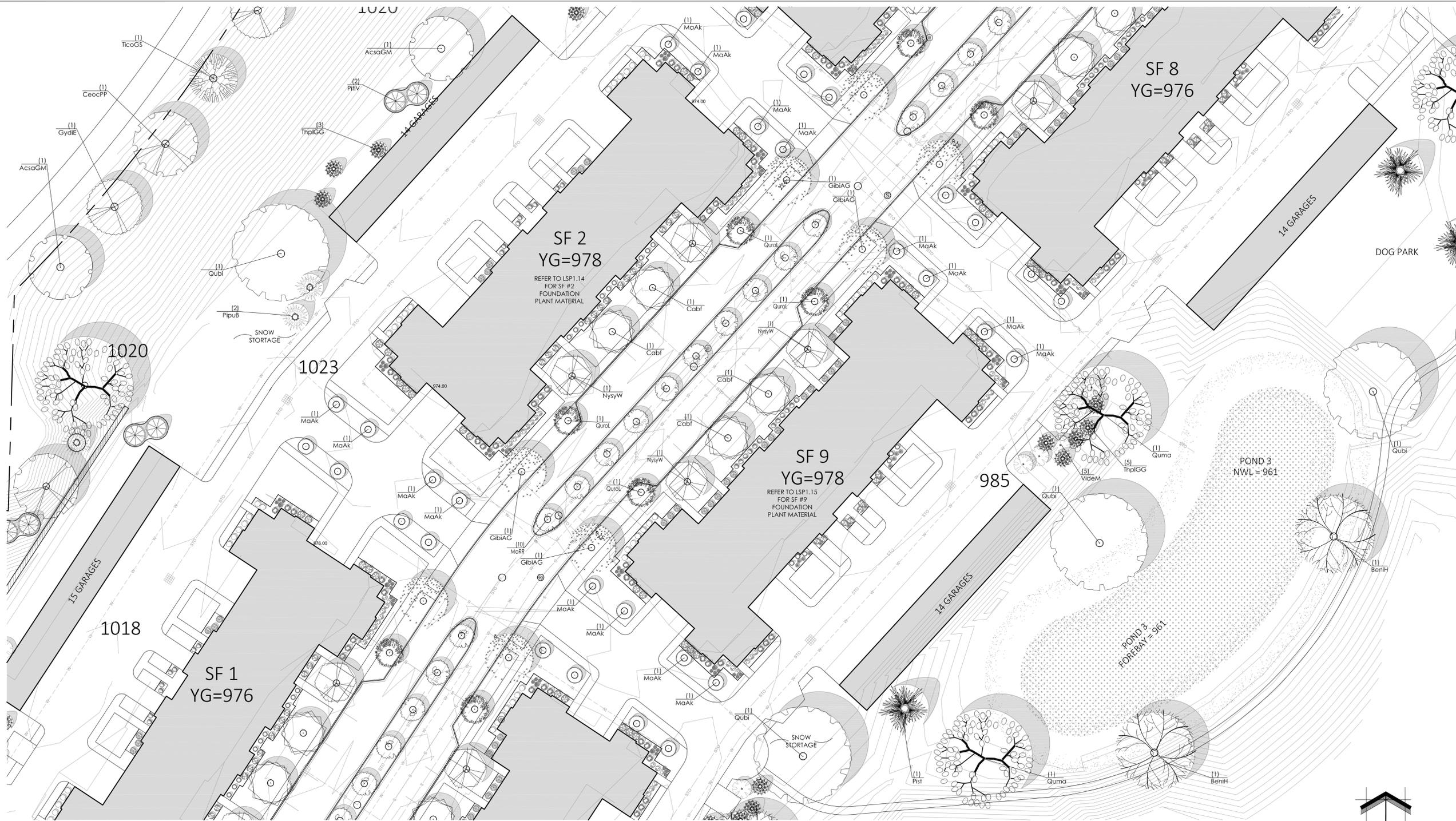
Scale: 1" = 30'-0"

Drawn By: MCD

Job Number: L23-043

Sheet Number:

LSP1.5



1 PROPOSED PARTIAL LANDSCAPE PLAN

SCALE: 1" = 30'-0"



Proposed Plant Material Table - LSP1.5

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
2	AcsaGM		Acer Saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2"-Cal - B&B	
2	BeniH		Betula Nigra 'Heritage'	Heritage River Birch	2"-Cal - B&B	
4	Cabf		Carpinus betulus 'Fastigiata'	Pyramidal EuropeanHornbeam	2"-Cal - B&B	
1	CeocPP		Cella occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2 1/2"-Cal - B&B	
4	GibiAG		Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	2 1/2"-Cal - B&B	
1	GydiE		Gymnocladus dioica 'Espresso'	Espresso Kentucky Coffee Tree	2 1/2"-Cal - B&B	
16	MaAk		Malus 'Adirondack'	Adirondack Flowering Crab	1 1/2" Cal - B&B	
10	MaRR		Malus 'JFS-KW5'	Royal Raindrops Crabapple	1 1/2" Cal - B&B	
4	NysyW		Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	2 1/2"-Cal - B&B	
4	Qubi		Quercus bicolor	Swamp White Oak	2 1/2"-Cal - B&B	
2	Quma		Quercus macrocarpa	Bur oak	2 1/2"-Cal - B&B	
4	QuraL		Quercus robur x bicolor 'Long'	Regal Prince Oak	2"-Cal - B&B	
1	TicoGS		Tilia cordata 'Green Spire'	Green Spire Linden	2 1/2"-Cal - B&B	
-	Extg		Existing To Remain	Existing To Remain	Existing	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
5	VideM		Viburnum dentatum 'Morton'	Northern Burgundy Arrowwood Viburnum	2' - 3' - B&B	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
2	PipuB		Picea pungens 'Glauca'	Colorado blue spruce	5' - 6' - B&B	
2	PiViV		Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	5' - 6' - B&B	
1	Pist		Pinus strobus	Eastern white pine	5' - 6' - B&B	
8	ThpIGG		Thuja plicata 'Green Giant'	Green Giant Arborvitae	5' - 6' - B&B	

Quantity	Symbol	Supplier	Type
15,500sq. ft.		Cardno Native Plant Nursery	Economy Prairie Seed Mix - mixture contains 6 of 7 native permanent grass/ sedge species and 10 of 15 native forb species. Refer to cut sheets for mix specifics and installation instructions.

Quantity	Symbol	Supplier	Type
19,000 sq. ft.		Cardno Native Plant Nursery	Stormwater Prairie Seed Mix - mixture contains 10 of 12 native permanent grass/ sedge species and 12 of 16 native forb species. Refer to cut sheets for mix specifics and installation instructions.

Quantity	Symbol	Supplier	Type
TBD sq. ft.		REINDER'S	NO-MOW LOW GROW GRASS SEED MIX - mixture contains native fescue and rye permanent grass species. Refer to cut sheets for mix specifics and installation instructions.

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong cones and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Train out as required and raise canopy for safety and visibility for both pedestrians and motorists.
 4. Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 5. Evenly shaped upright tree with full branching to the ground.
 6. Full, well rooted plant, evenly shaped.
 7. Full, well rooted plant.
 8. Male only
 9. Tree-form, Single Stem Specimen
 10. At grade coverage points for this plant do not contribute to the 10% coverage area requirement.

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Project:
HARTLAND QUARRY DEVELOPMENT
700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

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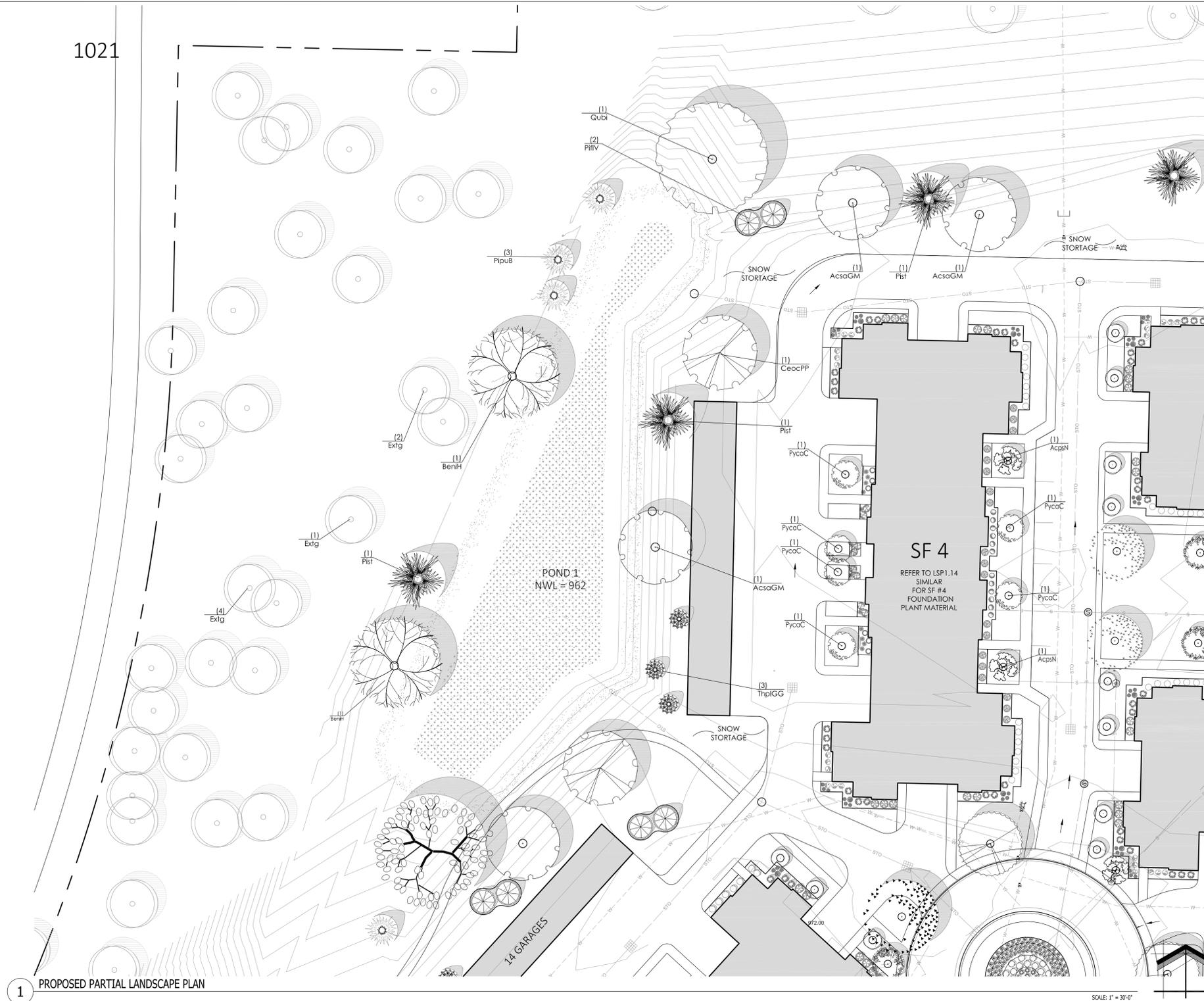
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Sheet Title:

PROPOSED LANDSCAPE PLAN,
GENERAL NOTES,
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Date of Drawing: 07/06/23
Scale: 1" = 30'-0"
Drawn By: MCD
Job Number: L23-043
Sheet Number:

LSP1.7



1 PROPOSED PARTIAL LANDSCAPE PLAN

SCALE: 1" = 30'-0"



Proposed Plant Material Table - LSP1.7

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
Broadleaf Deciduous Tree						
2	AcpsN		Acer pseudoesbaldianum 'Northwind'	Northwind Korean Maple	2"-Cal - B&B	
3	AcsaGM		Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2"-Cal - B&B	
2	BeniH		Betula nigra 'Heritage'	Heritage River Birch	2"-Cal - B&B	
1	CeocPP		Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2 1/2"-Cal - B&B	
6	Pycoc		Pyrus calleryana 'Chanticleer'	Chanticleer Pear	2"-Cal - B&B	
1	Qubi		Quercus bicolor	Swamp White Oak	2 1/2"-Cal - B&B	
-	Extg		Existing To Remain	Existing To Remain	Existing	
Conifer Evergreen Tree						
3	PipuB		Picea pungens 'Glauca'	Colorado blue spruce	5' - 6' - B&B	
2	Pflv		Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Limber Pine	5' - 6' - B&B	
3	Pst		Pinus strobus	Eastern white pine	5' - 6' - B&B	
3	ThpIGG		Thuja plicata 'Green Giant'	Green Giant Arborvitae	5' - 6' - B&B	

Quantity	Symbol	Supplier	Type
Upper Third of the Bowl - Economy Prairie Seed Mix Storm Water Management Pond area from Cardno Native Plant Nursery			
15,300 sq. ft.		Cardno Native Plant Nursery	Economy Prairie Seed Mix - mixture contains 6 of 7 native permanent grass/ sedge species and 10 of 15 native forb species. Refer to cut sheets for mix specifics and installation instructions.
lower Two-Thirds of the Bowl - Stormwater Prairie Seed Mix @ Storm Water Management Pond area from Cardno			
11,700 sq. ft.		Cardno Native Plant Nursery	Stormwater Prairie Seed Mix - mixture contains 10 of 12 native permanent grass/ sedge species and 12 of 16 native forb species. Refer to cut sheets for mix specifics and installation instructions.
No-Mow Low Grow Grass Seed Mix from Reinder's			
TBD sq. ft.		REINDERS	NO-MOW LOW GROW GRASS SEED MIX - mixture contains native fescue and rye permanent grass species. Refer to cut sheets for mix specifics and installation instructions.

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade.
 5. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 6. Evenly shaped upright tree with full branching to the ground.
 7. Full, well rooted plant.
 8. Male only.
 9. Tree-form, Single Stem Specimen
 10. At grade coverage points for this plant do not contribute to the 10% coverage area requirement.

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Project:

HARTLAND QUARRY DEVELOPMENT

700 W. Capitol Drive
Hartland, WI 53029

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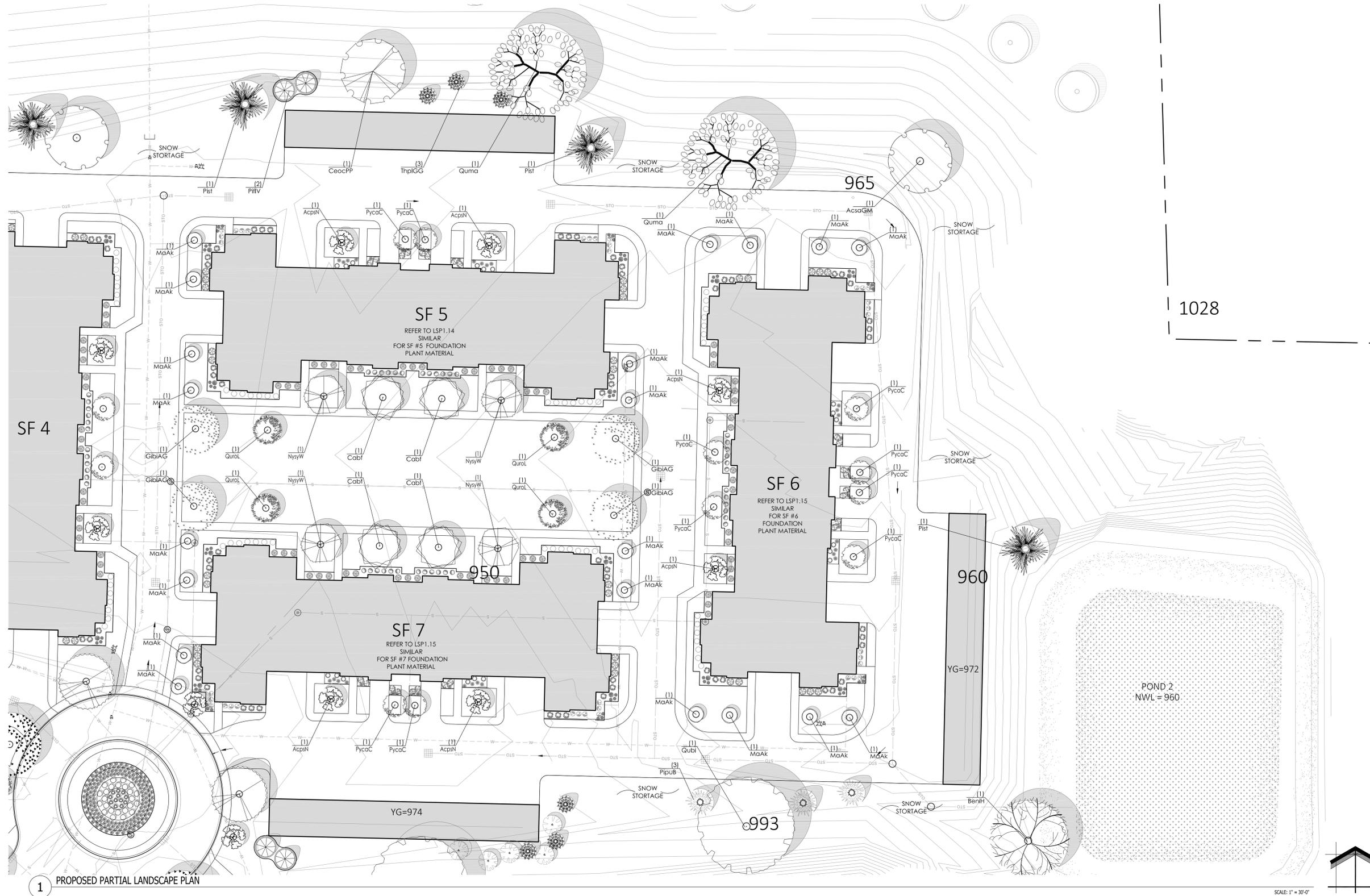
Scale: 1" = 30'-0"

Drawn By: MCD

Job Number: L23-043

Sheet Number:

LSP1.8



1 PROPOSED PARTIAL LANDSCAPE PLAN

Proposed Plant Material Table - LSP1.8

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
6	AcpsN		Acer pseudobaldianum 'Northwind'	Northwind Korean Maple	2'-Cal - B&B	
1	AcsgM		Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2'-Cal - B&B	
1	BenH		Betula nigra 'Heritage'	Heritage River Birch	2'-Cal - B&B	
4	Cabf		Carpinus betulus 'Fastigiata'	Pyramidal European Hornbeam	2'-Cal - B&B	
1	CeocPP		Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2 1/2'-Cal - B&B	
4	GibiAG		Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	2 1/2'-Cal - B&B	
18	MaAK		Malus 'Adirondack'	Adirondack Flowering Crab	1 1/2'-Cal - B&B	
4	NysyW		Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	2 1/2'-Cal - B&B	
10	PycaC		Pyrus calleryana 'Chanticleer'	Chanticleer Pear	2'-Cal - B&B	
1	Qubi		Quercus bicolor	Swamp White Oak	2 1/2'-Cal - B&B	
2	Quma		Quercus macrocarpa	Bur oak	2 1/2'-Cal - B&B	
4	QuroL		Quercus robur x bicolor 'Long'	Regal Prince Oak	2'-Cal - B&B	
-	Extg		Existing To Remain	Existing To Remain	Existing	

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
3	PipuB		Picea pungens 'Glauca'	Colorado blue spruce	5' - 6' - B&B	
2	PIIV		Pinus flexilis 'Vanderwolf's Pyramid'	Vanderwolf's Pyramid Lumber Pine	5' - 6' - B&B	
3	Pist		Pinus strobus	Eastern white pine	5' - 6' - B&B	
3	ThplGG		Thuja plicata 'Green Giant'	Green Giant Arborvitae	5' - 6' - B&B	

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and take canopy for safety and visibility for both pedestrians and motorists.
 4. Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 5. Evenly shaped upright tree with full branching to the ground.
 6. Full, well rooted plant, evenly shaped.
 7. Full, well rooted plant.
 8. Male only.
 9. Tree-form, Single Stem Specimen
 10. At grade coverage points for this plant do not contribute to the 10% coverage area requirement.

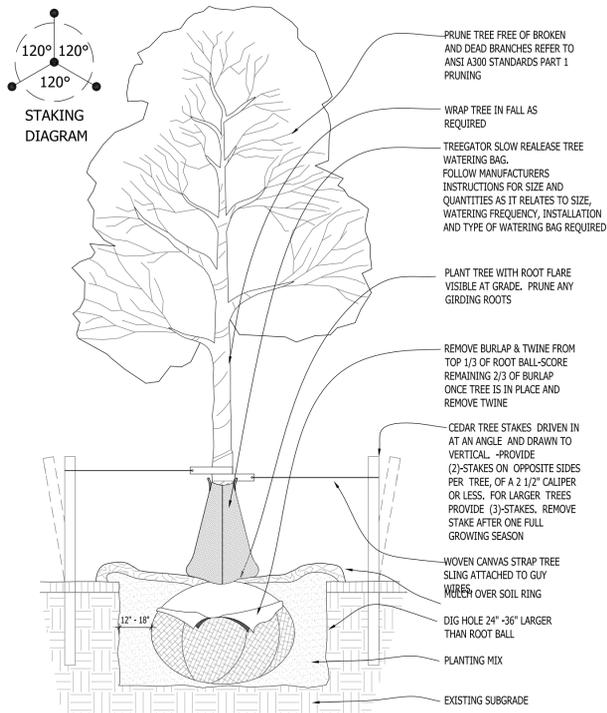
Quantity	Symbol	Supplier	Type
14,300 sq. ft.		Cardno Native Plant Nursery	Upper Third of the Bowl - Economy Prairie Seed Mix Storm Water Management Pond area from Cardno Native Plant Nursery

Quantity	Symbol	Supplier	Type
20,700 sq. ft.		Cardno Native Plant Nursery	Lower Two-Thirds of the Bowl - Stormwater Prairie Seed Mix @ Storm Water Management Pond area from Cardno

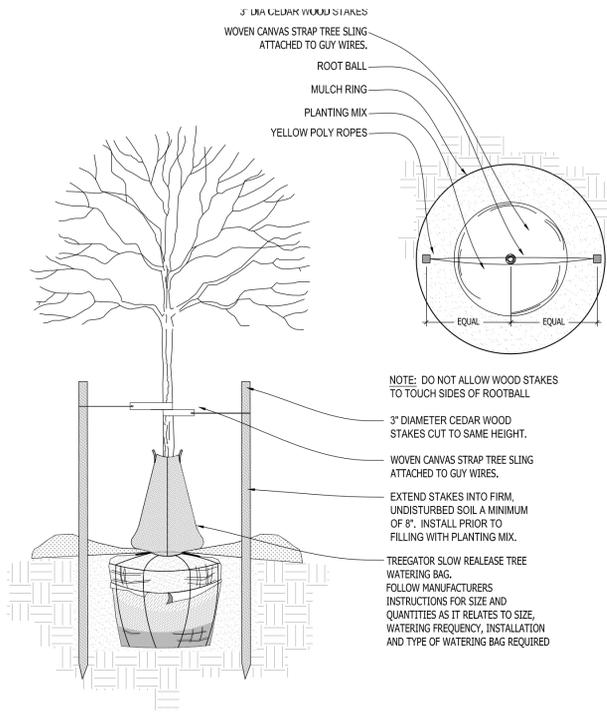
Quantity	Symbol	Supplier	Type
TBD sq. ft.		REINDER'S	No-Mow Low Grow Grass Seed Mix from Reinder's

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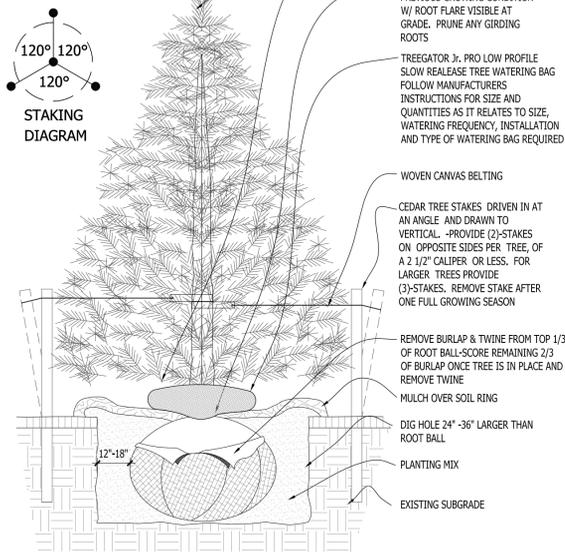
L23-043 - HARTLAND QUARRY DEVELOPMENT - 07/06/2023



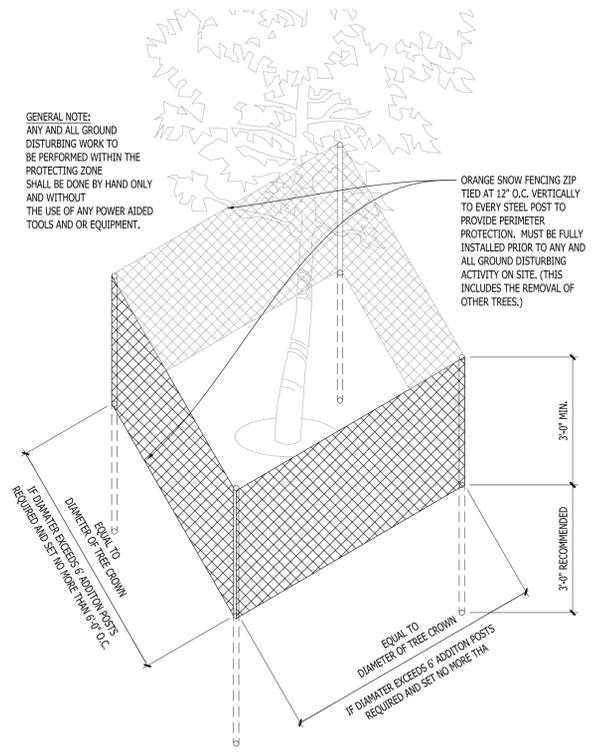
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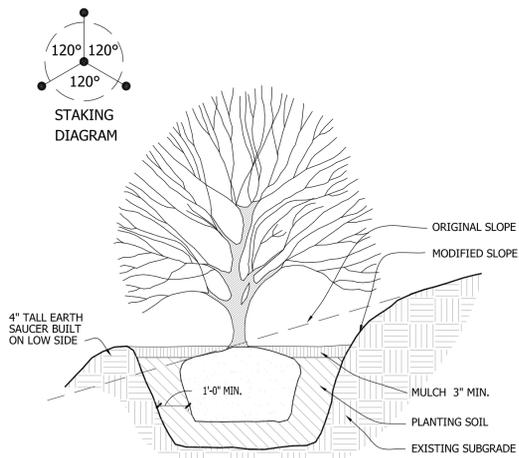
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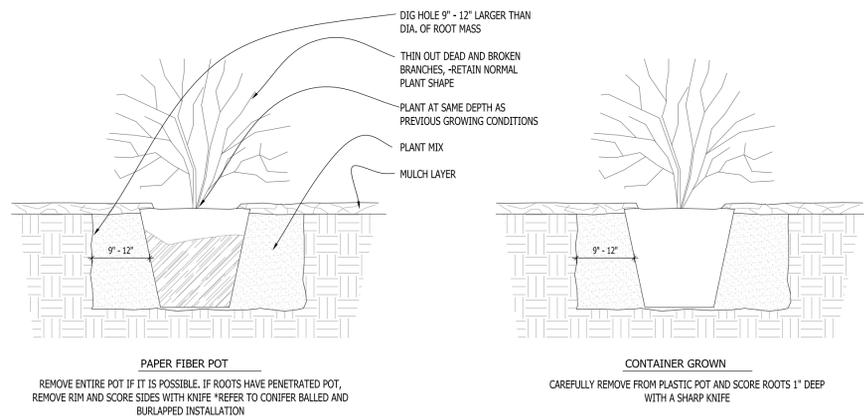
3 CONIFEROUS TREE PLANTING DETAIL SCALE: NONE



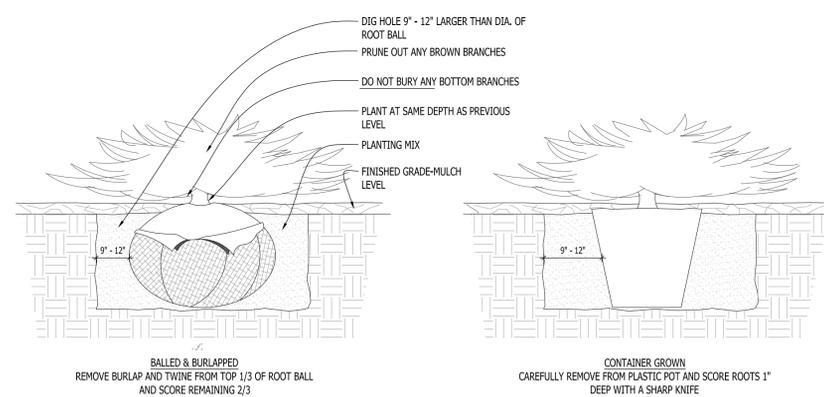
4 EXISTING TREE PROTECTION DETAIL SCALE: NONE



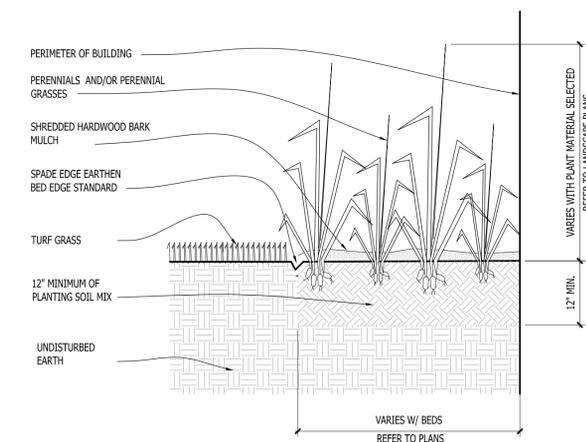
5 SLOPE PLANTING DETAIL SCALE: NONE



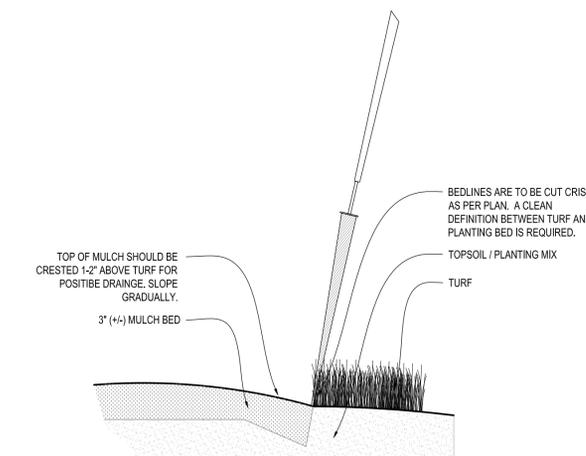
6 DECIDUOUS SHRUB PLANTING DETAIL SCALE: NONE



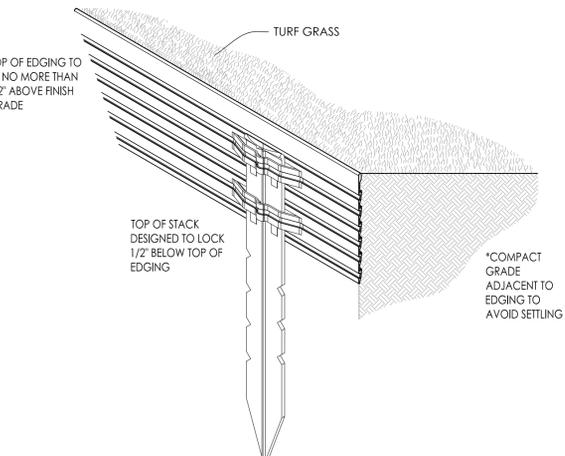
7 CONIFEROUS SHRUB PLANTING DETAIL SCALE: NONE



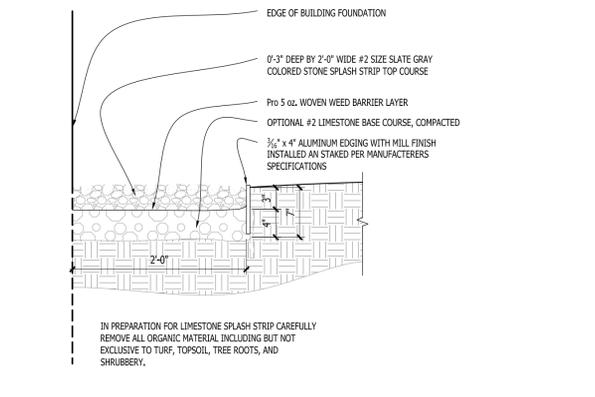
8 PERENNIAL BED PLANTING DETAIL SCALE: NONE



9 SPADE EDGE PLANT BED EDGE DETAIL SCALE: NONE



10 METAL LANDSCAPE EDGING DETAIL SCALE: 1/2" = 1'-0"



11 COMPACTED GRAVEL SPLASH STRIP SCALE: 1" = 1'-0"

Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
07/06/23		Plan Commission Submittal

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Sheet Title:
PROPOSED LANDSCAPE PLAN, PLANTING DETAILS

Date of Drawing:	07/06/23
Scale:	As Noted
Drawn By:	MCD
Job Number:	L23-043
Sheet Number:	

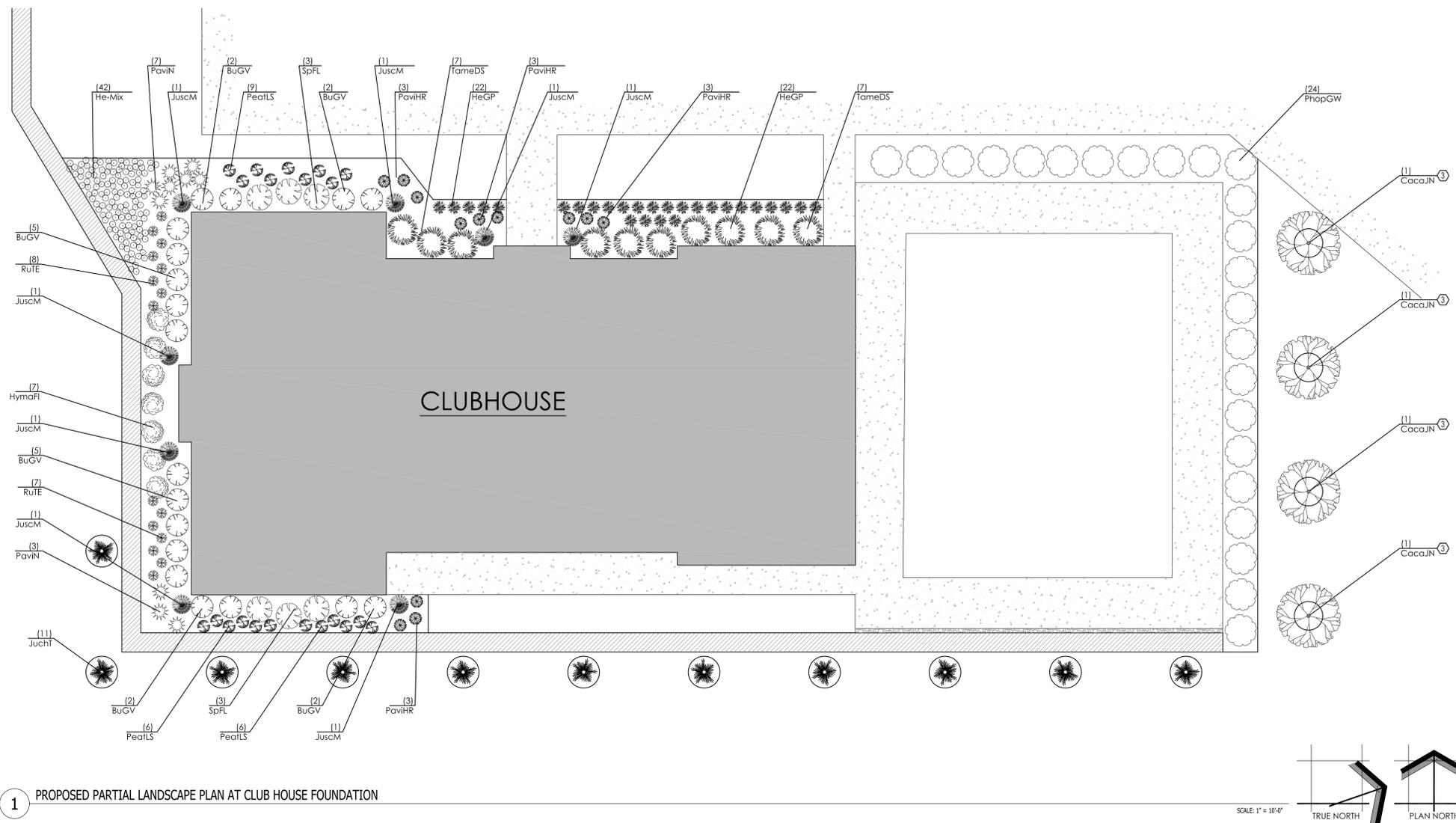
Project:

HARTLAND QUARRY DEVELOPMENT

700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
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1 PROPOSED PARTIAL LANDSCAPE PLAN AT CLUB HOUSE FOUNDATION

LSP1.6 - Proposed Plant Material Table - Club House / Amenity Area

Broadleaf Deciduous Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
4	CacaJN		<i>Carpinus caroliniana</i> 'JN Strain'	Firespire Musclewood	1 1/2' Cal - B&B	1

Conifer Evergreen Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
11	JuchT		<i>Juniperus chinensis</i> 'Trautman'	Trautman Juniper	5' - B&B	4
8	JuscM		<i>Juniperus scopulorum</i> 'Medora'	Medora Juniper	4' - B&B	4

Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
12	PavIHR		<i>Panicum virgatum</i> 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	6
10	PavIN		<i>Panicum virgatum</i> 'Northwind'	Northwind Switch Grass	1-Gal - Cont	6

Perennial						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
27	HeGP		<i>Heuchera x 'Georgia Peach'</i>	Georgia Peach Coral Bells	1-Gal - Cont	6
21	PeatLS		<i>Perovskia atriplicifolia</i> 'Little Spire'	Little Spire Russian Sage	4 1/2' pot	6
15	RuTE		<i>Rudbeckia</i> 'TigerEye'	TigerEye Gloriosa Daisy	4 1/2' pot	6
42	He-mix		Hemerocallis mix Hemerocallis x 'Swirling Water' Hemerocallis x 'VER00204' Hemerocallis x 'Chicago Apache' Hemerocallis x 'Pink Playmate'	Equal Random Mix of Daylily Swirling Water Daylily Yellow Punch Daylily Chicago Apache Daylily Pink Playmate Daylily	4 1/2' pot	6

Broadleaf Deciduous Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
7	HymaFl		<i>Hydrangea macrophylla</i> 'Hartfire'	Seaside Serenade Fire Island Hydrangea	18" - 24" - Cont	5
24	PhopGW		<i>Physocarpus opulifolius</i> 'Ginger Wine'	Ginger Wine Ninebark	18" - 24" - Cont	5
6	SpFL		<i>Spiraea x 'Fire Light'</i>	Fire Light Spirea	18" - Cont	5

Conifer Evergreen Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
10	TameDS		<i>Taxus x media</i> 'Densformis Select'	Select Dense Spreading Yew	18" - 24" - B&B	5

Broadleaf Evergreen Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
18	BuGV		<i>Buxus</i> 'Green Velvet'	Green Velvet Boxwood	18" - B&B	5

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Evenly shaped upright tree with full branching to the ground.
 5. Full, well rooted plant, evenly shaped.
 6. Full, well rooted plant.
 7. Male only
 8. Tree form, single stem specimen

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Sheet Title:

PROPOSED PARTIAL CLUBHOUSE
FOUNDATION LANDSCAPE PLAN
AND PLANT MATERIAL TABLE

Date of Drawing: 07/06/23

Scale: 1" = 10'-0"

Drawn By: MCD

Job Number: L23-043

Sheet Number:

LSP1.10

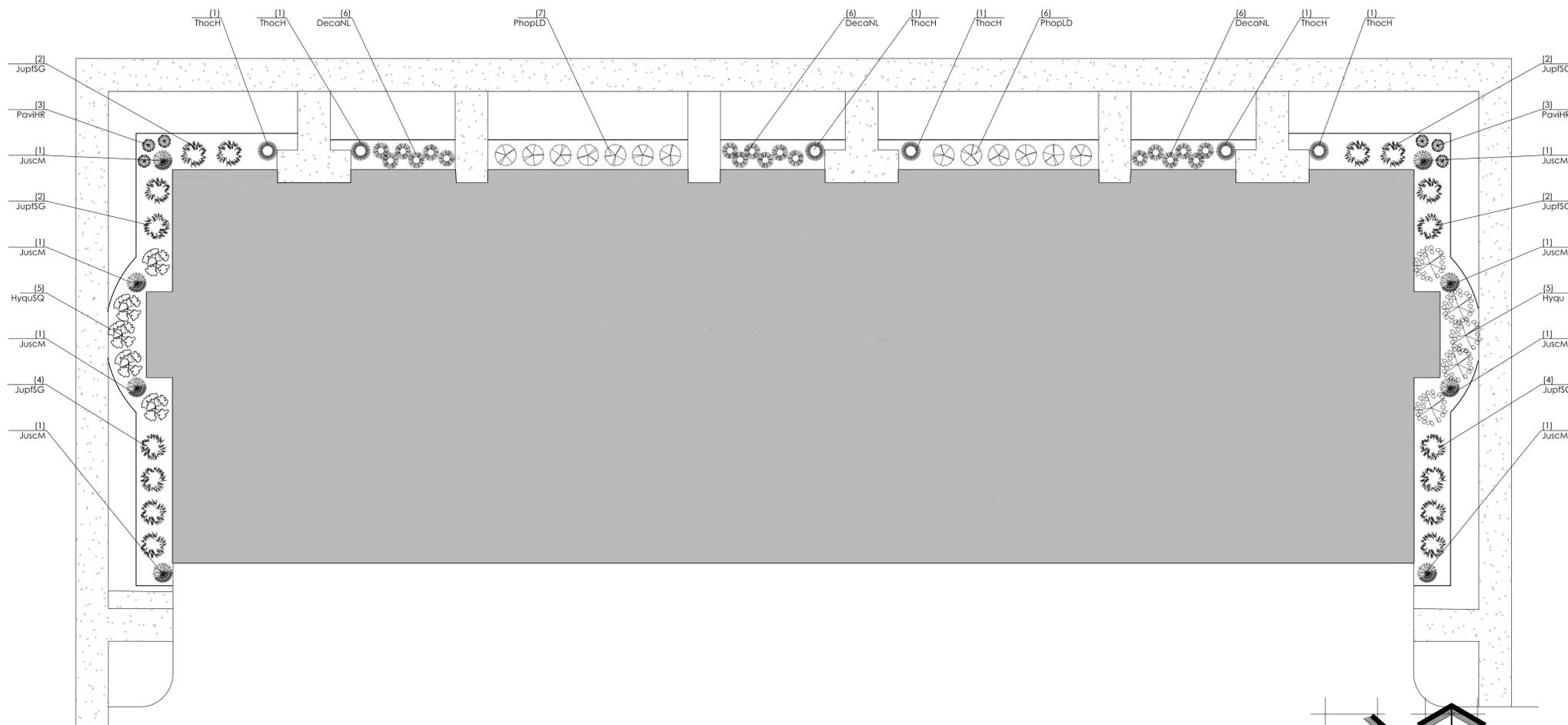
Project:

HARTLAND QUARRY DEVELOPMENT

700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
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07/05/23		Client Review Submittal
07/06/23		Plan Commission Submittal



1 PROPOSED PARTIAL LANDSCAPE PLAN AT CLUB HOUSE FOUNDATION

Proposed Plant Material Table - Town Home #1

Conifer Evergreen Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
8	JuscM	●	Juniperus scopulorum 'Medora'	Medora Juniper	4' - B&B	
Broadleaf Deciduous Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
5	Hyqu	⊗	Hydrangea quercifolia	Oakleaf hydrangea	18" - 24" - Cont	
5	HyquSQ	⊗	Hydrangea quercifolia 'Snow Queen'	Snow Queen Oakleaf Hydrangea	18" - 24" - Cont	
13	PhoplD	⊗	Physocarpus opulifolius 'Donna May'	Little Devil Ninebark	18" - 24" - Cont	
Conifer Evergreen Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
16	JupISG	⊗	Juniperus x pfitzeriana 'MonSan'	Sea of Gold Juniper	18" - 24" - B&B	
6	ThocH	⊗	Thuja occidentalis 'Halmstrup'	Halmstrup Dwarf Arborvitae	3' - Cont	
Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
18	DecaNL	⊗	Deschampsia caespitosa 'Northern Lights'	Northern Lights Tufted Hair Grass	1-Gal - Cont	
6	PavHR	⊗	Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Evenly shaped upright tree with full branching to the ground.
 5. Full, well rooted plant, evenly shaped.
 6. Full, well rooted plant.
 7. Male only
 8. Tree form, single stem specimen

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Sheet Title:

PROPOSED PARTIAL TOWNHOUSE #1
FOUNDATION LANDSCAPE PLAN
AND PLANT MATERIAL TABLE

Date of Drawing: 07/06/23

Scale: 1" = 10'-0"

Drawn By: MCD

Job Number: L23-043

Sheet Number:

LSP1.11

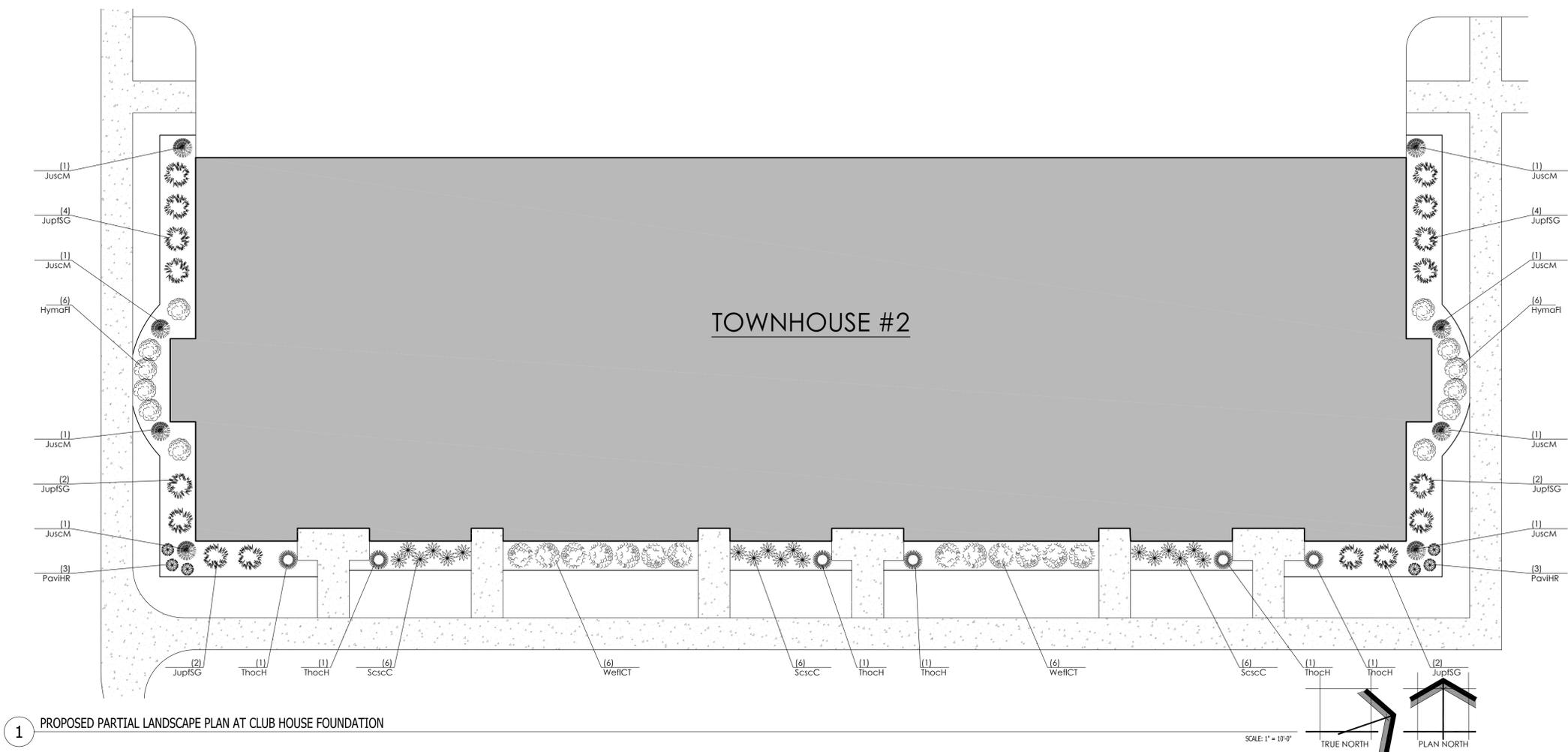
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L23-043 - HARTLAND QUARRY DEVELOPMENT - 07/06/2023

Project:
HARTLAND QUARRY DEVELOPMENT
 700 W. Capitol Drive
 Hartland, WI 53029

Issuance and Revisions:

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Proposed Plant Material Table - Town Home #2

Conifer Evergreen Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
8	JuscM		Juniperus scopulorum 'Medora'	Medora Juniper	4' - B&B	
Broadleaf Deciduous Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
12	HymaFl		Hydrangea macrophylla 'Hortfire'	Seaside Serenade Fire Island Hydrangea	18" - 24" - Cont	
13	WellCT		Weigela florida 'Czechmark Trilogy'	Czechmark Trilogy Weigela	18" - 24" - Cont	
Conifer Evergreen Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
16	JupISG		Juniperus x pflzeriana 'MonSan'	Sea of Gold Juniper	18" - 24" - B&B	
6	ThocH		Thuja occidentalis 'Halmstrup'	Halmstrup Dwarf Arborvitae	3" - Cont	
Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
6	PaviHR		Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	
18	ScscC		Schizachyrium scoparium 'Carousel'	Carousel Little Blue Stem	1-Gal - Cont	

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Evenly shaped upright tree with full branching to the ground.
 5. Full, well rooted plant, evenly shaped.
 6. Full, well rooted plant.
 7. Male only
 8. Tree form, single stem specimen

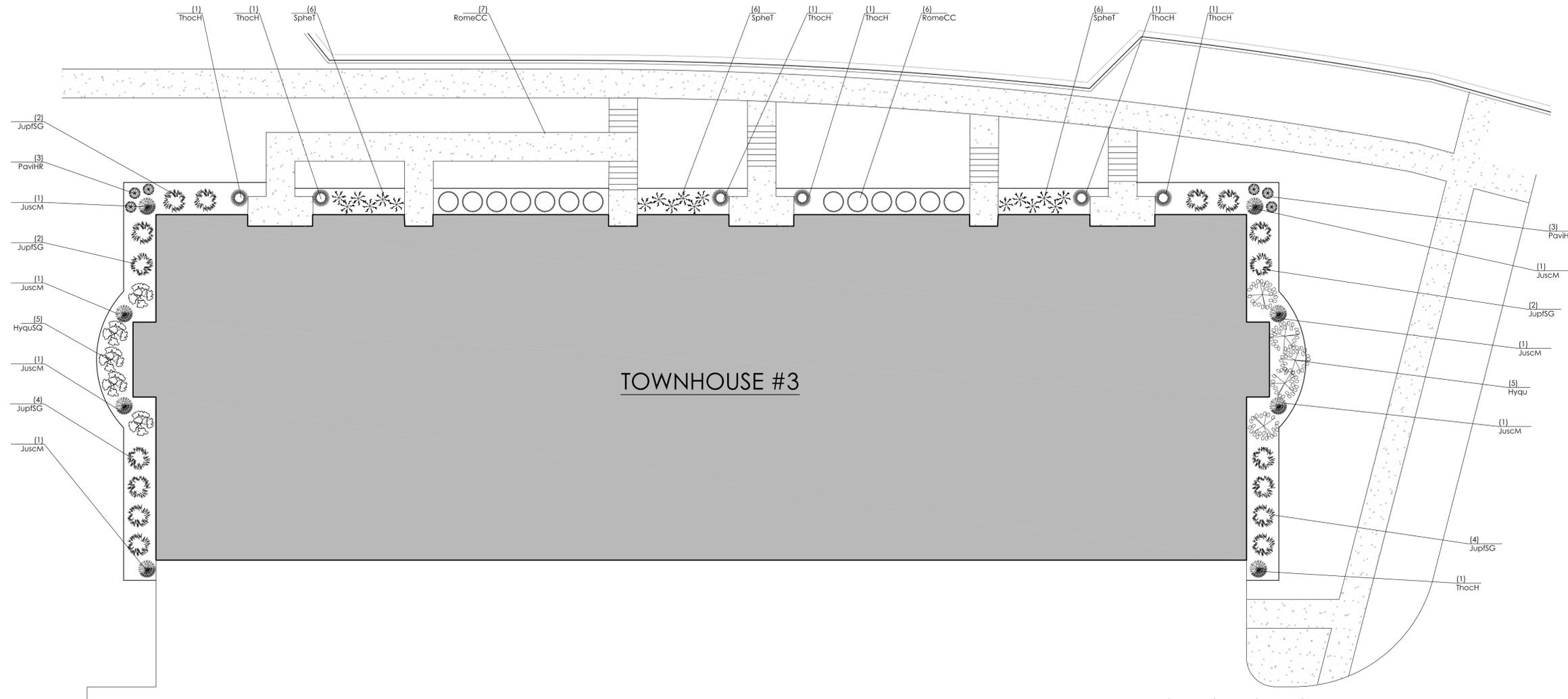
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Sheet Title:
 PROPOSED PARTIAL TOWNHOUSE #2
 FOUNDATION LANDSCAPE PLAN
 AND PLANT MATERIAL TABLE

Date of Drawing: 07/06/23
 Scale: 1" = 10'-0"
 Drawn By: MCD
 Job Number: L23-043
 Sheet Number:

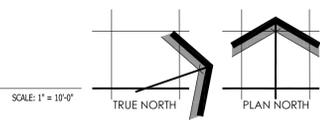
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 L23-043 - HARTLAND QUARRY DEVELOPMENT - 07/06/2023



TOWNHOUSE #3

1 PROPOSED PARTIAL LANDSCAPE PLAN AT CLUB HOUSE FOUNDATION



Proposed Plant Material Table - Town Home #3

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
Conifer Evergreen Tree						
8	JuscM	●	Juniperus scopulorum 'Medora'	Medora Juniper	4' - B&B	
Broadleaf Deciduous Shrub						
5	Hyqu	⊗	Hydrangea quercifolia	Oakleaf hydrangea	18" - 24" - Cont	
5	HyquSQ	⊗	Hydrangea quercifolia 'Snow Queen'	Snow Queen Oakleaf Hydrangea	18" - 24" - Cont	
13	RomeCC	○	Rosa 'Meiransois'	Candy Cane Cocktail Rose	18" - 24" - Cont	
Conifer Evergreen Shrub						
16	JupISG	⊗	Juniperus x pflzeriana 'MonSan'	Sea of Gold Juniper	18" - 24" - B&B	
6	ThocH	⊗	Thuja occidentalis 'Halmstrup'	Halmstrup Dwarf Arborvitae	3' - Cont	
Perennial Grass						
6	PavIHR	⊗	Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	
18	SpheT	⊗	Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	1-Gal - Cont	

- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Well balanced, multi-stemmed tree with a minimum of (3) strong canes and full appearance.
 3. Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
 4. Evenly shaped upright tree with full branching to the ground.
 5. Full, well rooted plant, evenly shaped.
 6. Full, well rooted plant.
 7. Male only
 8. Tree form, single stem specimen

Project:
HARTLAND QUARRY DEVELOPMENT
 700 W. Capitol Drive
 Hartland, WI 53029

Issuance and Revisions:

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06/30/23		Client Review Submittal
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Sheet Title:
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Date of Drawing: 07/06/23
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 Drawn By: MCD
 Job Number: L23-043
 Sheet Number:

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 L23-043 - HARTLAND QUARRY DEVELOPMENT - 07/06/2023

Reinders Grass Seed

REINDERS NO MOW / LOW GROW SEED MIX

SEED TECHNOLOGY SHEET

Description

Reinders No Mow / Low Grow Seed Mix is a new blend developed for hard to mow areas or those areas where minimal up keep is desirable. Composed of Spartan II Hard Fescue, Quatro Sheep Fescue and TXR Annual Rye Grass, this blend needs to be irrigated only during germination (7 to 10 days), with a small amount of fertilizer at seeding. After it is established, it will require no fertilizer or irrigation. If unmowed, grass will grow to about a foot in height and bend over. If mowed, it should be cut at four inches occasionally. If unmowed, wild flowers could be seeded at the rate of 1/4 to 1/2 per 2500 square foot area (4 to 6 pounds per acre).

Spartan II hard fescue comprises 45% of this mix. Spartan II is a tough, vigorous and hardy variety that has good drought tolerance, excellent shade tolerance, and excellent cold tolerance. Spartan II is dark colored and fine-textured and will germinate in seven to ten days at soil temperatures over 65 degrees. Quatro sheep fescue has a very fine leaf texture and moderately dark blue-green color. It is outstanding for its low maintenance needs and slow growth rates. TXR Annual Ryegrass is a superior cultivar, which is quick starting with a slow rate of growth, but provides high turf quality and acts as a nursegrass for quick establishment.

Formula	Recommended Seeding Rate
45% Spartan II Hard Fescue	4 – 6 pounds per 1000 square feet
40% Quatro Sheep Fescue	175 / 250 pounds per acre
15% TXR Annual Ryegrass	

Recommended Use

No Mow / Low Grow Seed Mix is ideal for areas that will not be mowed regularly and will not need any special irrigation or fertilizer.

Recommended Maintenance

Mow once a year (spring) and it will grow to a height of 12 inches, then droop over. A small amount of fertilizer should be applied at seeding, and it should be watered until it has germinated. Cut at a height of four inches.

Find a store location at www.reinders.com or call 800-785-3301

29-1400
Rev. 1/16

Reinders Grass Seed

DELUXE 50 LAWN SEED MIX

SEED TECHNOLOGY SHEET

Description

Reinders Deluxe 50 Lawn Seed Mix is formulated for areas where a predominant bluegrass turf is desired, yet where minimum maintenance is desired. Deluxe 50 will persist on non-irrigated sites that have wide variations in environmental conditions. Replicator and Fiesta 4 Perennial Ryegrass provide a quick ground cover and soil stabilization with quality and disease resistance that is vastly superior to unimproved perennial ryegrasses. The sod quality Kentucky Bluegrass and the named variety of Kentucky Bluegrass produce a well-knit sod and withstand moderately heavy traffic. Creeping Red Fescue provides shade tolerance, low fertility persistence and drought tolerance and disease resistance. This mixture combines good quality turf and long-term persistence with moderate maintenance requirements.

Formula	Recommended Seeding Rate
20% Kentucky Bluegrass (Sod Quality)	New seeding: Rotary or Drop Spreader
15% Newport Kentucky Bluegrass	150-200 lbs/acre
15% SR 2100 Kentucky Bluegrass	Overseeding/Slit/Seeder
25% Creeping Red Fescue	20% - 50% existing cover - 100-125 lbs/acre
15% Replicator Perennial Ryegrass	50%-75% existing cover - 75 - 100 lbs/acre
10% Fiesta 4 Perennial Ryegrass	Seeding Depth: 1/8" to 1/2"

Recommended Use

Deluxe 50 is designed for new seeding of large areas where initial cost must be kept low and where elite bluegrass cultivars are not required. Major areas of use will include school grounds, parks, cemeteries, golf course roughs, home lawns, institutional grounds, and utility turf areas. Deluxe 50 is suited for sunny or shady areas and thrives in many different soil types.

Recommended Maintenance

Deluxe 50 will achieve adequate density and a medium dark green color with two to three fertilizations per season. It will do well under lower fertility programs, but to achieve a higher quality turf an increased fertility program is needed. A mowing height of 2 to 3 inches is recommended for maximum drought tolerance and weed resistance. This mixture should not be mowed below 1 1/2 inches.

Find a store location at www.reinders.com or call 800-785-3301

11-1400
Rev. 1/16



Specification Sheet – BioNet® S150BN™ Erosion Control Blanket

DESCRIPTION

The short-term double net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a 100% biodegradable woven natural fiber netting. The netting shall consist of machine directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form an approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S150BN shall meet Type 2-D specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) ECTC Section 715.17

Material Content	Quantity
Matrix	100% Straw Fiber 0.5 lbs/sq yd (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute Bottom: 100% biodegradable organic jute 9.35 lb/1000 sq ft (4.5 kg/100 m ²) 7.2 lb/1000 sq ft (3.76 kg/100 m ²)
Thread	Degradable

Standard Roll Sizes	Weight
Width	52.22 lbs (23.69 kg)
Length	65.20 lbs (29.61 kg)
Weight ± 10%	101.2 lbs (45.9 kg)

Area	Weight
80 sq yd (66.9 sm)	100 sq yd (83.3 sm)
Leno weave top only	Leno top and bottom



Index Property	Test Method	Typical
Thickness	ASTM D6525	0.23 in. (5.84 mm)
Resiliency	ECTC Guidelines	80-95%
Water Absorbency	ASTM D817	426%
Mass/Unit Area	ASTM D6475	8.71 oz/sy (246 g/sm)
Swirl	ECTC Guidelines	95%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1888	6.23 oz-in
Light Penetration	ASTM D6567	15.3%
Tensile Strength - MD	ASTM D6188	188.4 lbs/ft (27.9 kN/m)
Elongation - MD	ASTM D6188	11.2%
Tensile Strength - TD	ASTM D6188	157.2 lbs/ft (23.3 kN/m)
Elongation - TD	ASTM D6188	15.5%
Biomass Improvement	ASTM D7322	549%

Design Permissible Shear Stress	Value
Unvegetated Shear Stress	1.85 psf (88 Pa)
Unvegetated Velocity	6.00 fps (1.83 m/s)

Slope Design Data: C Factors	Slope Gradient (S)
Slope Length (L)	≤ 31' 31' - 21' ≥ 21'
≤ 20 ft (6 m)	0.0004 0.019 N/A
20-50 ft	0.01 0.70 N/A
> 50 ft (15.2 m)	0.02 0.100 N/A

Roughness Coefficients - Unveg.	Flow Depth
Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 - 2.0 ft	0.055-0.021
≥ 2.0 ft (0.60 m)	0.021

Tensar International Corporation warrants that at the time of delivery the product described hereon shall conform to the specification stated hereon. Any other warranty, including manufacturer's and those for a particular purpose, are hereby waived. If the product does not meet the specifications stated hereon, it shall be returned to the manufacturer. Tensar will replace the product at no cost to the customer. This product specification supersedes all other specifications for the product described above and is not applicable to any products shipped prior to January 1, 2010.

Home > Turf/Landscaping > Seed Mulch/Hydro Mulch
Seed Aide - Aero - 50 LB BAG



SKU: SM-50
Availability: 1235 Available in Sussex
CHECK OTHER WAREHOUSES

INSITE
LANDSCAPE DESIGN
Landscape Consulting
& Master Planning Design Services
11525 W. North Avenue, Suite 1B
Wauwatosa, WI 53226
Tel (414) 476-1204
www.insitedesigninc.com
mdavis@insitedesigninc.com

Project:
HARTLAND QUARRY DEVELOPMENT
700 W. Capitol Drive
Hartland, WI 53029

Issuance and Revisions:

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1 PROJECT GRASS SEED MIX CUT SHEETS

Prairie Seed Mixes

Established Economy Prairie Mix

Asclepias tuberosa, Butterfly Weed

Rudbeckia hirta, Yellow Coneflower

ECONOMY PRAIRIE

This prairie seed mix offers an economical way to establish a prairie. In addition to native prairie grasses, flowering species provide color throughout the growing season and food sources for birds and butterflies. Adding seed or plant plugs at a later date is a wonderful way to increase a prairie's richness and diversity. This seed mix includes at least 6 of 7 native permanent grass and sedge species and 10 of 13 native forb species. Apply at 41-16 PLS pounds per acre.

Botanical Name	Common Name	PLS LB/Acre
Permanent Grasses		
<i>Andropogon gerardii</i>	Big Bluestem	12.00
<i>Bouteloua curtipendula</i>	Side-Oats Grama	16.00
<i>Chenopodium</i>	Prairie Sedge Sparler	3.00
<i>Spiralis aridissima</i>	Canada Wild Rye	24.00
<i>Panicum virgatum</i>	Switch Grass	2.50
<i>Schizachyrium scoparium</i>	Little Bluestem	30.00
<i>Eriophorum macrurus</i>	Indian Grass	12.00
	Total	101.50
Temporary Cover		
<i>Avena sativa</i>	Common Oat	012.00
	Total	213.50
Forbs		
<i>Asclepias tuberosa</i>	Common Milkweed	3.00
<i>Asclepias tuberosa</i>	Butterfly Weed	1.00
<i>Chamaecrista fasciculata</i>	Partridge Pea	10.00
<i>Coneoclinis borealis</i>	Sand Conegrass	5.00
<i>Cochlospora purpurea</i>	Black-eyed Purple Coneflower	8.00
<i>Hesperis matronalis</i>	Pink Bellflower	0.50
<i>Monarda tomentosa</i>	Wild Bergamot	0.50
<i>Penstemon spicatus</i>	Flagpole Beard Tongue	2.00
<i>Rudbeckia hirta</i>	Yellow Coneflower	4.00
<i>Rudbeckia hirta</i>	Black-eyed Susan	8.00
<i>Solidago canadensis</i>	Shower Chokeberry	2.50
<i>Symphytum officinale</i>	Smooth Blue Aster	1.00
<i>Symphytum officinale</i>	New England Aster	0.50
	Total	47.00

Keys to seeding success

- Prepare the site adequately
- Choose the correct plant species for the site conditions
- Purchase quality PLS
- Ensure good seed-to-soil contact
- Prevent annual weeds from re-seeding
- Create and follow a maintenance plan; adapt as site conditions dictate

4 PROJECT NATIVE PRAIRIE SEED MIX CUT SHEETS

Stormwater

A wetland seed mix for saturated soils in a detention pond or for seeding a saturated basin, this mix will tolerate highly fluctuating water levels and poor water quality associated with urban stormwater overflows and ponds. For detention basins that experience long, dry periods, use the Economy Prairie seed mix in the upper third to half of the basin area in combination with this mix. This seed mix includes at least 10 of 12 native permanent grass and sedge species and 12 of 16 native forb species. Apply at 32-81 PLS pounds per acre.

Botanical Name	Common Name	PLS LB/Acre
Permanent Grasses/Sedges		
<i>Bouteloua curtipendula</i>	River Bluestem	0.25
<i>Chenopodium</i>	Cracked Oval Sedge	3.00
<i>Carex lasiocarpa</i>	Bottlebrush Sedge	3.00
<i>Carex lasiocarpa</i>	Brown Top Sedge	0.60
<i>Cyperus virginicus</i>	Virginia Wild Rye	19.00
<i>Glyceria striata</i>	Joint Manna Grass	1.25
<i>Juncus effusus</i>	Common Rush	2.00
<i>Lepidosiphon</i>	Road Cut Grass	1.00
<i>Panicum virgatum</i>	Switch Grass	2.00
<i>Schizachyrium scoparium</i>	Softstem Bulrush	3.00
<i>Sagittaria arifolia</i>	Dark Green Rush	2.00
<i>Sagittaria arifolia</i>	Wood Grass	1.00
	Total	37.00
Temporary Cover		
<i>Avena sativa</i>	Common Oat	300.00
<i>Lolium multiflorum</i>	Annual Rye	100.00
	Total	400.00
Forbs		
<i>Alisma spp.</i>	Water Plantain Mix	4.25
<i>Ambrosia artemisiifolia</i>	Scumweed	1.00
<i>Bidens spp.</i>	Bidens Mix	2.00
<i>Helianthus autumnalis</i>	Showerweed	2.00
<i>Iris virginica</i>	Blue Iris	4.00
<i>Lycopus americanus</i>	Common Water Horehound	0.25
<i>Mimulus ringens</i>	Monkey Flower	1.00
<i>Sagittaria arifolia</i>	Roadside Goldenrod	0.50
<i>Panicum scaberrimum</i>	Ditch Sponecrop	0.50
<i>Polypogon spp.</i>	Prairie Milk	4.00
<i>Rudbeckia subtomentosa</i>	Sweet Black-eyed Susan	1.00
<i>Rudbeckia triloba</i>	Brown-eyed Susan	1.50
<i>Sagittaria arifolia</i>	Common Arrowweed	1.00
<i>Sagittaria arifolia</i>	Wild Celery	1.00
<i>Symphytum officinale</i>	New England Aster	1.50
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	2.00
	Total	28.00

Specialty Seed Mixes

Carex cristata, Crested Oval Sedge

Mimulus ringens, Monkey Flower

Rudbeckia subtomentosa, Sweet Black-eyed Susan

2 EROSION CONTROL BLANKET

Specialty Seed Mixes

Well Field Seeding

Stream Bank Stabilization

Sorghastrum nutans, Indian Grass

Slope Stabilization

This grass and sedge mix is best suited for sites with slopes where erosion control is needed. Applications include embankments, dikes, and levees. Use this mix in conjunction with erosion control materials for best results. This seed mix includes 7 of 9 native permanent grass and sedge species. Apply at 50-5 PLS pounds per acre.

Botanical Name	Common Name	PLS LB/Acre
Permanent Grasses/Sedges		
<i>Andropogon gerardii</i>	Big Bluestem	48.00
<i>Bouteloua curtipendula</i>	Side-Oats Grama	16.00
<i>Carex spp.</i>	Prairie Sedge Sparler	4.00
<i>Carex lasiocarpa</i>	Canada Wild Rye	30.00
<i>Panicum virgatum</i>	Switch Grass	24.00
<i>Sagittaria arifolia</i>	Dark Green Rush	12.00
<i>Schizachyrium scoparium</i>	Little Bluestem	30.00
<i>Sorghastrum nutans</i>	Indian Grass	30.00
	Total	204.00
Temporary Cover		
<i>Avena sativa</i>	Common Oat	60.00
<i>Lolium multiflorum</i>	Annual Rye	240.00
	Total	264.00

Add a pollinator enhancement

To add a pollinator enhancement to the Slope Stabilization seed mix add our Native Wildflower seed mix (page 20) at a rate of 1/4 acre of Native Wildflower to 1 acre of the Slope Stabilization Seed Mix.

Promote your organization | Promote native pollinators

Is your organization looking for a unique way to stand out? Build a promotional seed packet! Cardno's Native Plant Nursery can build promotional seed packets customized with your organization's logo and contact information. Cardno's seed packets make great handouts and conversation starters at conferences, trade shows, and community events.

Advertise your organization and provide your audience with an opportunity to grow native plants that return year after year as a colorful reminder of your contribution. These plants help restore native landscape in your region and build habitat for butterflies, hummingbirds, and other pollinators.

Custom mixes can be specialized by region. Additional graphic services can be provided for an additional cost. Contact nurserysales@cardno.com for details and pricing.

1.5 - 2.0 grams of native plant seed of 5 species

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Sheet Title:
PROPOSED PROJECT SEED MIX CUT SHEETS

Date of Drawing: 07/06/23
Scale: NONE
Drawn By: MCD
Job Number: L23-043
Sheet Number:
LSP1.16

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March 26th, 2024

RE: PRAIRIE SEED MIX INSTALLATION AND MAINTENANCE

Project No.: L23-043 Hartland Quarry

Installing, restoring and maintaining native plant communities and creating attractive, dynamic landscapes using native plants is a challenging and fun pursuit. However, to successfully achieve project goals, many variables must be understood and considered.

The successful establishment of native plant communities' rests on six major factors:

1. selection of a suitable site
2. appropriate materials selection
3. appropriate site preparation
4. proper installation technique
5. post-installation site management
6. time

During the first 6 to 12 months of a seeding project, it may be difficult to differentiate between the germinated native seed and undesirable weeds. Although some of the wildflower and grass species will be recognizable within the first year, it may take a few growing seasons for the native plant community to mature and fully establish not unlike other plant material.

Management of Native Plant Communities

For optimal establishment, a newly seeded prairie should receive the equivalent of one inch of water per week for the first 2 to 4 weeks, either via rainfall or irrigation. On small sites, watering is always beneficial, especially during extended dry periods while seeds are germinating and plants are becoming established.

Do not pull weeds while seed is germinating and seedlings are establishing or desirable plants may be uprooted with the weeds. Weeds also provide fuel for burning during the first few years of prairie establishment, if burning is allowed by your municipality and is feasible.

Controlled burns are one of the most effective prairie management tools. Burning is essential to the long-term maintenance of your prairie. Burns should be conducted only by experienced persons who are properly equipped and trained in fire management techniques and safety. Controlled burns in urban/populated areas can be inherently tricky and may not be allowed. Coupled with the severe slopes of the quarry edge may make it impractical, treacherous and hazardous to burn.

If allowed and feasible, conduct controlled burns from mid-October through April if allowed by the community. Burn the prairie annually for the first two to three years and every fifth year thereafter is possible. If there is insufficient growth to sustain a good, fruitful burn, the burn can be delayed until the second year.

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Large sites should be divided into sections and only one section burned each year. This enhances prairie diversity, leaves habitat undisturbed and promotes a safer, more easily controlled burn.

If burning is not practical or allowed, mowing may be substituted. Mow in late fall annually the first three years and every third year thereafter. (Where feasible, mowing of the severe slopes of the quarry edge more than likely will make mowing impractical, treacherous and hazardous). Exotic, invasive species may need to be aggressively managed with the appropriate herbicides.

Although native plants require the same care and attention as non-native, cultivated varieties in the first few growing seasons, once established, native plants should survive and thrive for many years with little maintenance.

Prairie Seed Installation Recommendations

Optimum seeding time:
October 1 (fall) to May 15 (late spring)

(Seeding can be done outside of this window but establishment may take longer. Do not seed during the summer when soil moisture and rainfall may be limited.)

Seedbed preparation:

Existing vegetative growth should be removed or killed with herbicides. Surface till the seedbed to a depth of two to four inches. If the ground is wet, delay tilling until the soil dries enough to break apart when tilled. Lightly compact the tilled soil with a roller, cultipacker or similar implement. Tilling can usually be omitted if using a no-till seed drill.

Sowing seed:

Sow seed by hand or with a broadcaster and press into the soil with a roller, cultipacker or similar equipment. Do not cover seed more than ¼" deep. If not already included in the seed mix, plant a cover crop of seed oats at 22 pounds per acre and annual ryegrass at 10 pounds per acre with the seed. If using a no-till seed drill, follow the manufacturer's recommendations, being careful not to cover the seed more than ¼" deep. A one-inch thick mulch layer of crimped straw is recommended on erosion-prone areas.

Wetland Seed Installation Recommendations

Optimum seeding time:

October 1 (fall) to May 15 (late spring)

(Seeding can be done outside of this window but establishment may take longer. Do not seed during the summer when soil moisture and rainfall may be limited.)

Before you plant, be sure surrounding soils are stabilized and cannot erode into the wetland. If the slopes are newly constructed and exposed, the germination and growth of wetland seeds can be severely inhibited by siltation, sedimentation and cloudy water.

Vegetation on surrounding slopes is the best protection from erosion damage. A quick growing cover crop such as oats, annual ryegrass or turfgrasses is acceptable, but seeding of permanent native species is advised for optimal long-term stabilization and natural appeal.

Other controls such as silt fences, erosion control blankets, straw mulches and straw bale dams should be installed as required to protect your wetland. The type of soil substrate is important to planting success. A heavy clay substrate is not conducive to seed germination and growth. You should consider incorporating topsoil, peat, compost or black dirt into the substrate before planting if your soil is heavy or nutrient-poor. Make sure required permits (if any) have been obtained.

If wetland is temporarily dry:

Successful planting can be accomplished by planting when the wetland is dry. If the wetland has not naturally dried down then pumping out the water or using outlet water controls (if available) may be appropriate. Remember to obtain any required permits.

Scarify the soil surface by shallow tilling or raking. Seed that is packaged we should be sown in the lower elevations of the wetland where water levels will be deeper. Dry-packaged seed should be sown on the higher elevations but can overlap into the wet-seed areas. Press seed firmly into the soil using a roller, cultipacker or similar equipment. Very light raking is an acceptable alternative, but be careful to not cover seed more than ¼" deep. Restore water level or wait for normal rainfall to bring water level up after seeding. If feasible, use outlet controls to maintain water level depths between ½" and 6" until seed germinates and wetland vegetation is well established.

If wetland is wet:

In instances where water level control is not possible, satisfactory results may be obtained by following the techniques listed below. Sow wet packaged seed into 4"-6" of standing water. Mixing seed with damp clay balls aids in distribution and anchoring of seed in desired locations. Rake or till lightly an area 6" - 10" above waterline elevation (actual seeding area along shore will vary with degree of shoreline slope) If undesirable weed growth is present, mow or kill before tilling.

Winter sowing:

Successful planting can also be accomplished from winter seeding. Sow wet and dry-packaged seed in the zones as described above directly on bare ground during a winter thaw or on old, frozen snow (do not apply to lose, newly-fallen snow due to the potential for wind loss). Normal freezing and thawing will create openings in the ground, allowing the seed to work its way naturally into the soil. The seed will be in place to germinate when conditions are right in the spring.

Natural Area Maintenance

Natural areas are dynamic systems, and a maintenance and management plan require flexibility in order to accommodate the development of the site. Native plants tend to germinate and develop at a slower rate than ornamental perennials or turf grass. Regular maintenance during

the native plant establishment period, usually three to five years, greatly improves the success of the project.

The maintenance of the natural areas can include:

- Exotic & Invasive Species Control
- Over-Seeding Supplemental Planting Regular Site Inspections Water Control & Irrigation

Species such as Canada thistle, cattails, reed canary grass, common reed and purple loosestrife are invasive weeds which establish quickly in a newly disturbed area. Upon establishment, these species spread exponentially to nuisance levels, crowding out other desirable plants and reducing the overall diversity and aesthetics of a site. A focused and dedicated maintenance program will reduce the competition from weed species, allowing desirable native plants to develop.

It is recommended that natural area managers that are well versed in principles of restoration ecology and the techniques used in site management strategies such as:

- Mowing (Where feasible, mowing of the severe slopes of the quarry edge more than likely will make mowing impractical, treacherous and hazardous)
- Chemical Application
- Prescribed Burning Hand-Weeding (Controlled burns of the severe slopes of the quarry edge more than likely will make a controlled burn impractical, treacherous and hazardous). *Controlled burns of the severe slopes of the quarry edge more than likely will make a controlled burn impractical, treacherous and hazardous. Burning in a urban/residential setting may add the hazard cause this maintenance practice prohibited.*
- Over-Seeding
- Supplemental Replanting

Native Vegetated Mat (NVM) Installation Guidelines

Site Assessment and Suitability Requirements:

Match the Native Vegetated Mat species to the eco-region, hydrology, soil type and sunlight conditions present on site.

Select the appropriate core material for NVM.

- Degradable Core - A degradable "coir" core may be used for most installations including areas where burning will be required, low scour (hydraulic energy) exists or due to permitting restrictions.
- Non-Degradable Core (geosynthetic) - Use a "non woven needle-punched UV stabilized polypropylene fabric" core in areas that have high scour rates (high shear forces), wave energy (hydraulic piping), suppression of weed bank or other difficult conditions.

Choose a mat for areas where: unstable soil conditions exist and mechanically stabilized earth (MSE) is required such as the Envirolok System, and/or the encapsulation of growing media is required and rip rap or green armor of soil surface is required.

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Project:

**HARTLAND
QUARRY
DEVELOPMENT**

700 W. Capitol Drive
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Issuance and Revisions:

Date	Number	Description
06/30/23		Client Review Submittal
07/05/23		Client Review Submittal
07/06/23		Plan Commission Submittal

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Sheet Title:

PROPOSED PROJECT PRAIRIE SEED
MIX INSTALLATION & MAINTENANCE
INFORMATION

Date of Drawing: 07/06/23
Scale: NONE
Drawn By: MCD
Job Number: L23-043
Sheet Number:

LSP1.17

1 PRAIRIE SEED MIX INSTALLATION & MAINTENANCE INFORMATION

Preparation:

Eliminate surface and subsurface compaction to allow rapid deep root development of natives. Eliminate all existing unwanted vegetation! Use a non-selective non-persisting herbicide like glyphosate or repeated mechanical weed control cultivations or smothering techniques. Eliminate surface roughness (clods, small tree stumps, etc.) to prevent root pruning from air gaps. Amend soil with clean compost or other media and mix into surface to decrease transitional rooting time into existing soil.

Transportation:

Native Vegetated Mat must be kept cool and moist during transportation to avoid root hair pruning (dry back). A refrigerated air ride truck may be necessary for long hauls. A tarped truck or trailer can be sufficient for short hauls.

Installation:

Handle the Native Vegetated Mat with care to minimize root and vegetative damage. Keep the material moist and cool at all times at the install site. Install NVM within 48 hours of being loaded onto the truck. Install NVM seams tightly to prevent edge dry back. Tuck the edges of NVM into the ground by cutting a lip into the soil with a spade. Lay Native Vegetated Mat so that the ends of the pieces do not line up with the adjoining row, but create a staggered pattern. If using a non-degradable core NVM in a hydraulic application, install the NVM in a shingle like layout to prevent a breach of the material layers. If the NVM is in or near the water the leading edge should be check slotted into the lake or stream bed. Stone may also be needed to secure the toe NVM and/or break up the hydraulic energy to help protect the vegetation.

Anchor the NVM with wood stakes, landscape staples, J-hooked rebar or earth anchors to prevent the NVM from moving, slipping down-slope or floating in a hydraulic application. The number and type of stakes will be site dependent.

Irrigation:

Water the Native Vegetated Mat as soon as possible after installation. If soil is excessively dry pre water site or water as NVM is laid. Wetting hot exposed soil will also reduce heat injury to perishable prairie root hairs. Initially soak soil the NVM to a nearly saturated condition. Water every day for the first 5 to 7 days. Plan for at least 1" per week. For 2 to 4 weeks after installation for establishment, water to a wet condition and let dry back making the roots grow deeper for moisture.

Maintenance:

Watering - High quality Native Vegetated Mat will require very little maintenance once rooted. In extreme conditions such as a drought, the NVM may have to be watered after the 4 week period. It may take a few growing seasons for the prairie roots to their full rooting potential.

Weed Control

The thick nature of Native Vegetated Mat coupled with the soil-less, weed free growing media will help prevent much of the weed seed bank from growing through. Eliminating all pre-existing perennial vegetation prior to installation will further reduce long term maintenance needs. If wind borne weeds are introduced to the site, simply hand weed or selectively use glyphosate herbicide. Do not spray weedy plants as the drift could eliminate other plants creating holes in the desirable vegetation.

Burning

Controlled burns of the severe slopes of the quarry edge more than likely will make a controlled burn impractical, treacherous and hazardous. Burning in a urban/residential setting may add the hazard cause this maintenance practice prohibited. Burning of flat areas and gentle slopes can be introduced in year three only if the NVM contains the degradable core material and is allowed by the municipality. The non-degradable, geosynthetic core is petroleum based and can get hot enough to inadvertently kill the crown of the plants. If a fire is required with the non-degradable core, pre-wet the soil and let the "one hour fuels" dry back. Head fire and immediately extinguish. Native Vegetated Mat burns should only be conducted by trained professionals.

1 PRAIRIE SEED MIX INSTALLATION & MAINTENANCE INFORMATION CONTINUED

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