



LANDSCAPE PLAN

SITE PLAN

SITE SECTIONS

LANDSCAPING LOCATION & TREATMENT

PROPOSED PLANTING

MATERIAL PALETTE

EXISTING TREES & VEGETATION

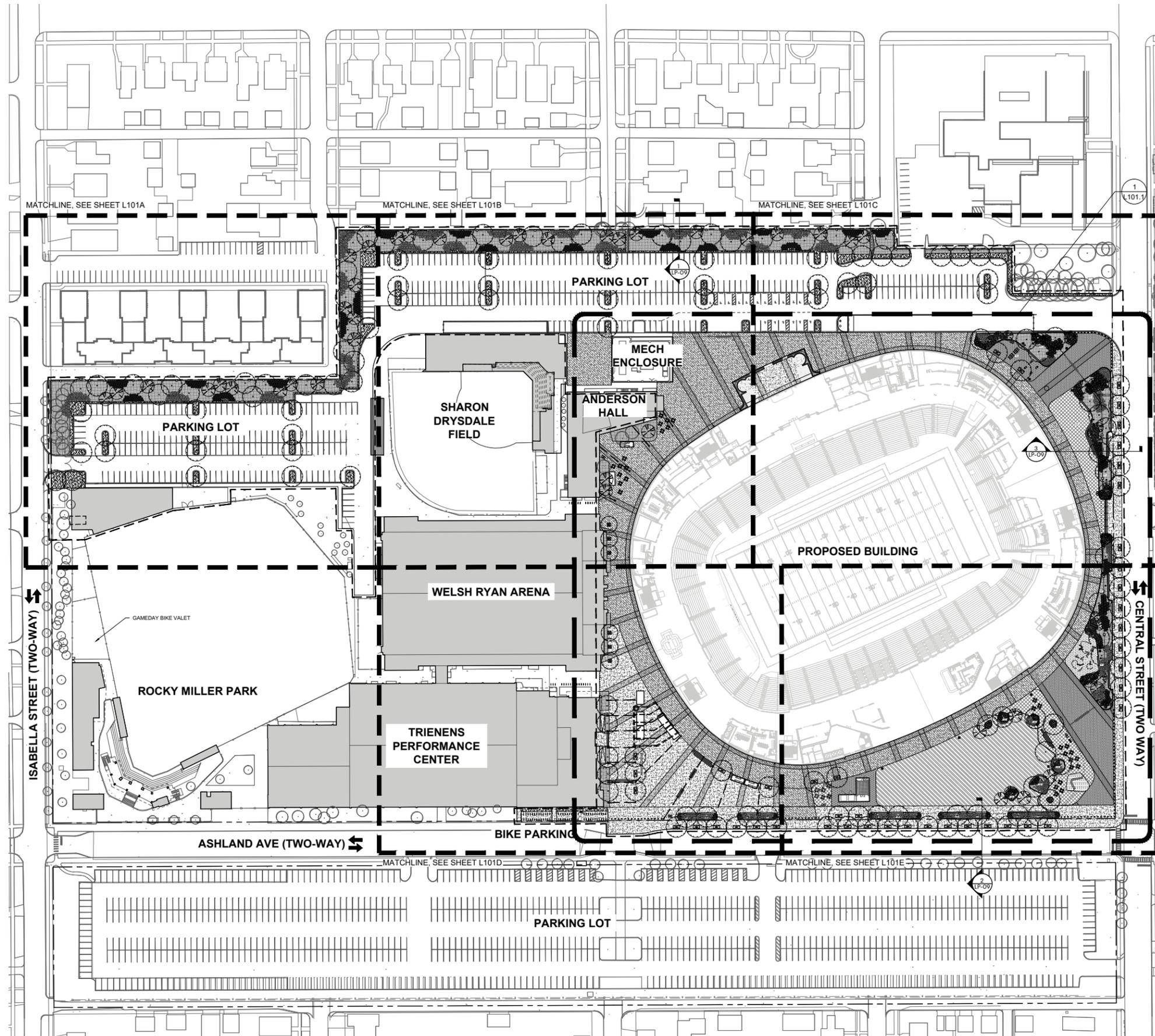
FENCES & WALLS

SITE LIGHTING PLAN

SHADOW ANALYSIS



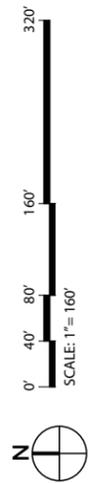
**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

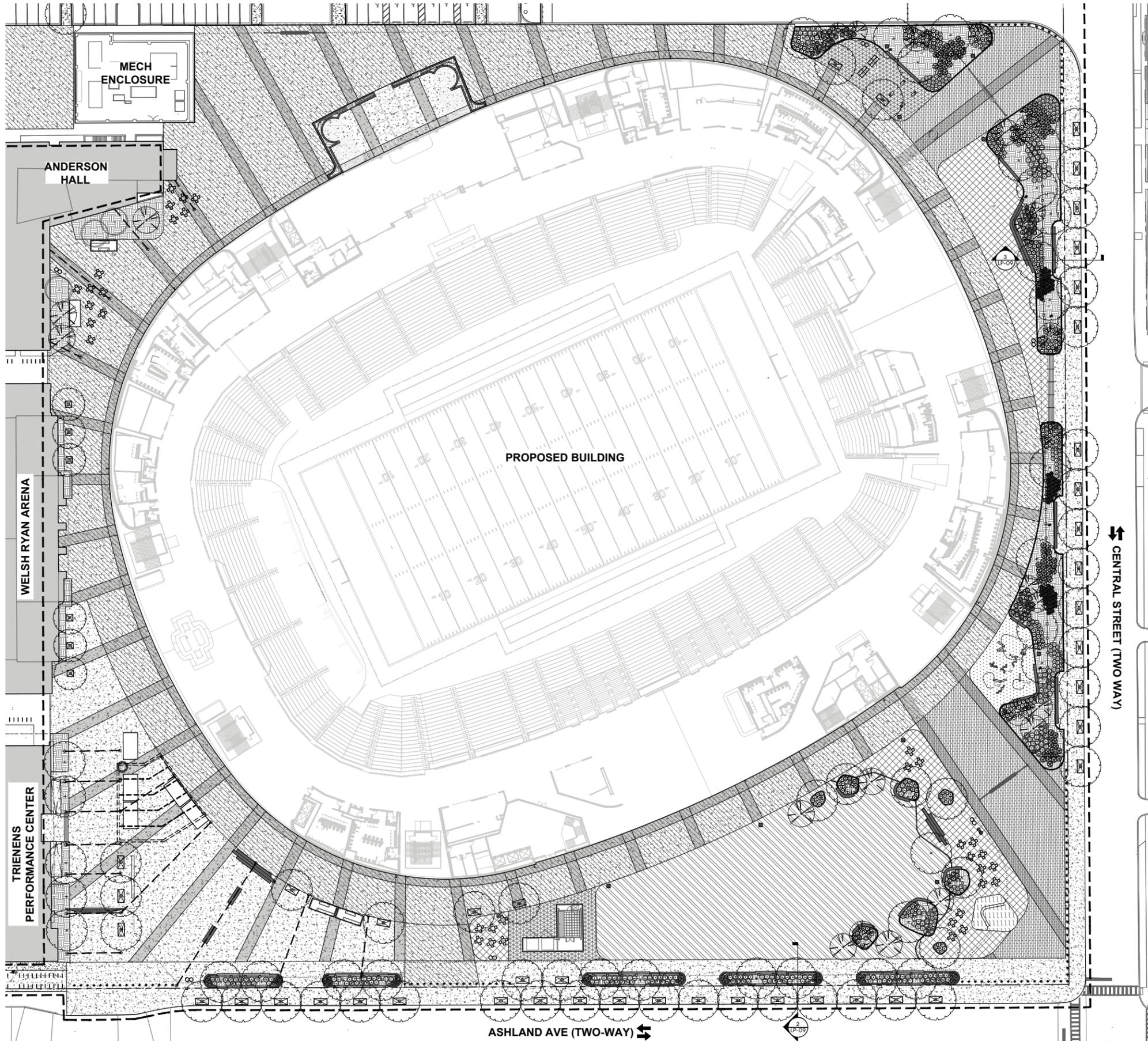


LEGEND

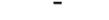
- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- 4.5H ORNAMENTAL WELDED WIRE FENCE
- 6H ORNAMENTAL WELDED WIRE FENCE
- 6H ORNAMENTAL METAL FENCE
- TEMPORARY FENCE, BY OTHERS
- PEDESTRIAN CONCRETE PAVING, TYPE 1
- PEDESTRIAN CONCRETE PAVING, TYPE 2
- VEHICULAR CONCRETE PAVING, TYPE 1
- VEHICULAR CONCRETE PAVING, TYPE 2
- PEDESTRIAN UNIT PAVERS
- PERMEABLE UNIT PAVING, TYPE 1
- PERMEABLE UNIT PAVING, TYPE 2
- PERMEABLE UNIT PAVING, TYPE 3
- PIP RUBBER SURFACING
- AGGREGATE PAVING
- CONCRETE STAIRS W/ HANDRAILS
- CONCRETE PLANTER, TYPE 1
- CONCRETE PLANTER, TYPE 2
- RAISED CONCRETE CURB
- FLUSH CONCRETE CURB
- CONCRETE RETAINING WALL
- CONCRETE SEATWALL
- BLEACHER SEATING
- MOVEABLE GROUP PLATFORM SEATING
- WOOD SEATWALL TOPPER
- TRASH/RECYCLING RECEPTACLE
- DRINKING FOUNTAIN
- REMOVABLE BOLLARD
- PLAY ELEMENTS
- MOVEABLE TABLES AND CHAIRS
- TREE GRATE
- PING PONG TABLES
- CORN HOLE GAMES
- BICYCLE RACK
- BICYCLE REPAIR STATION
- PEDESTRIAN LIGHT POLE
- CATENARY LIGHTING
- EXISTING TREE TO REMAIN AND BE PROTECTED
- SHADE TREE
- ORNAMENTAL TREE
- SHRUBS
- SHRUBS/ PERENNIALS/ GROUNDCOVER
- SOD
- GROUND HYDRANT, REFER TO MEP

LANDSCAPE SITE PLAN





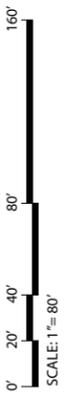
LEGEND

-  PROPERTY LINE
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-  4.5H ORNAMENTAL WELDED WIRE FENCE
-  6H ORNAMENTAL WELDED WIRE FENCE
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-  PERMEABLE UNIT PAVING, TYPE 1
-  PERMEABLE UNIT PAVING, TYPE 2
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-  TREE GRATE
-  PING PONG TABLES
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-  ORNAMENTAL TREE
-  SHRUBS
-  SHRUBS/ PERENNIALS/ GROUNDCOVER
-  SOD



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RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

LANDSCAPE SITE PLAN - STADIUM



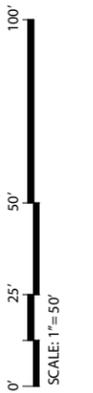


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LANDSCAPE SITE PLAN - ENLARGED



LP-04



LEGEND

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- SOD
- GROUND HYDRANT, REFER TO MEP



- EXISTING FENCE TO REMAIN
- EXISTING TREE TO REMAIN AND BE PROTECTED
- SHRUBS/ PERENNIALS/ GROUNDCOVER
- VEHICULAR PAVING, REFER TO CIVIL
- RELOCATED EXISTING FENCE AND GATE
- RAISED CONCRETE CURB, REFER TO CIVIL
- SOD
- SHADE TREE
- PROPERTY LINE
- PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- FUTURE BUILDING, REFER TO ARCH

ISABELLA STREET (TWO-WAY) ↔

PARKING LOT

ROCKY MILLER PARK

MATCHLINE. SEE SHEET L101B

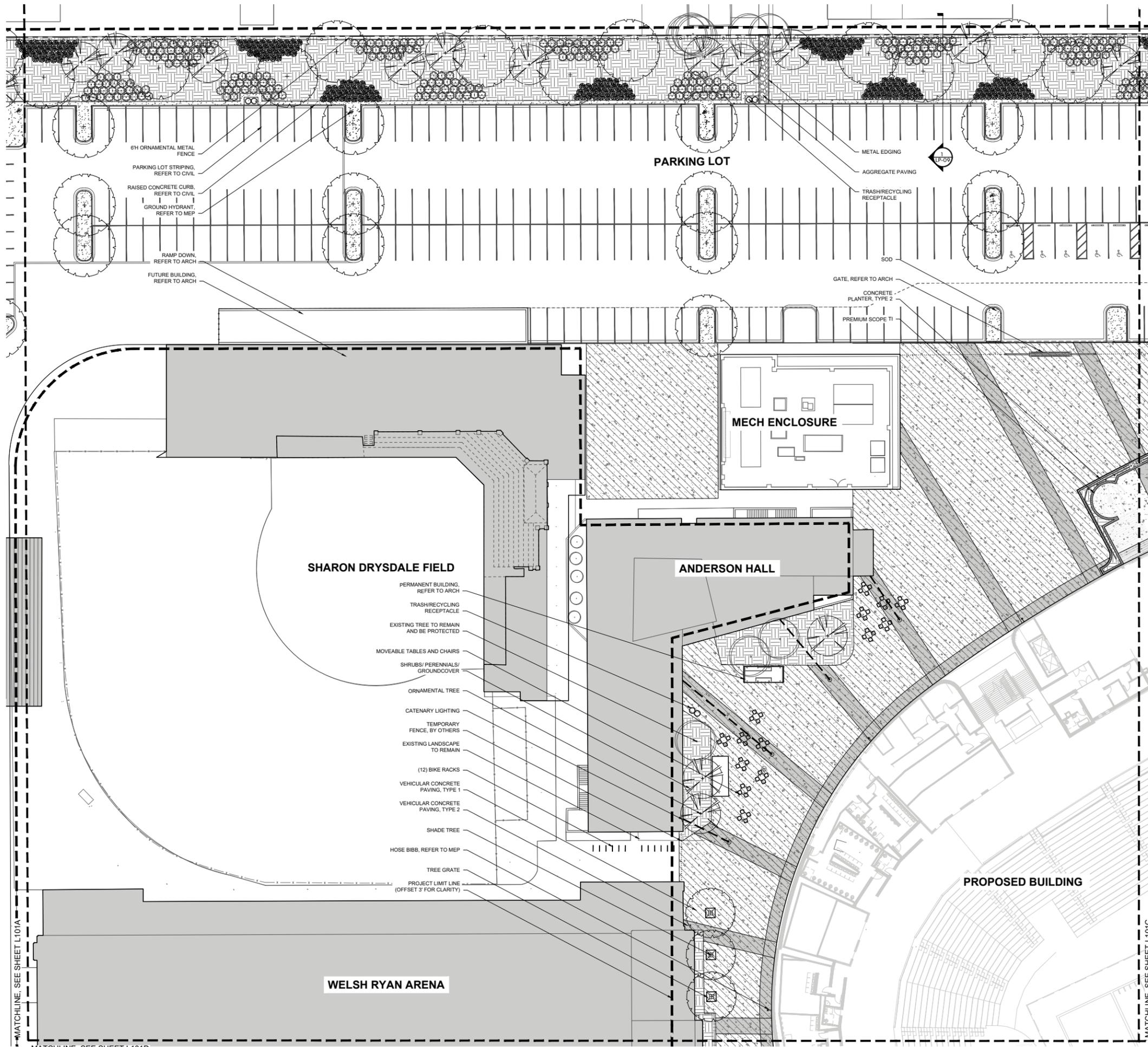
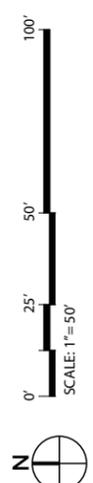


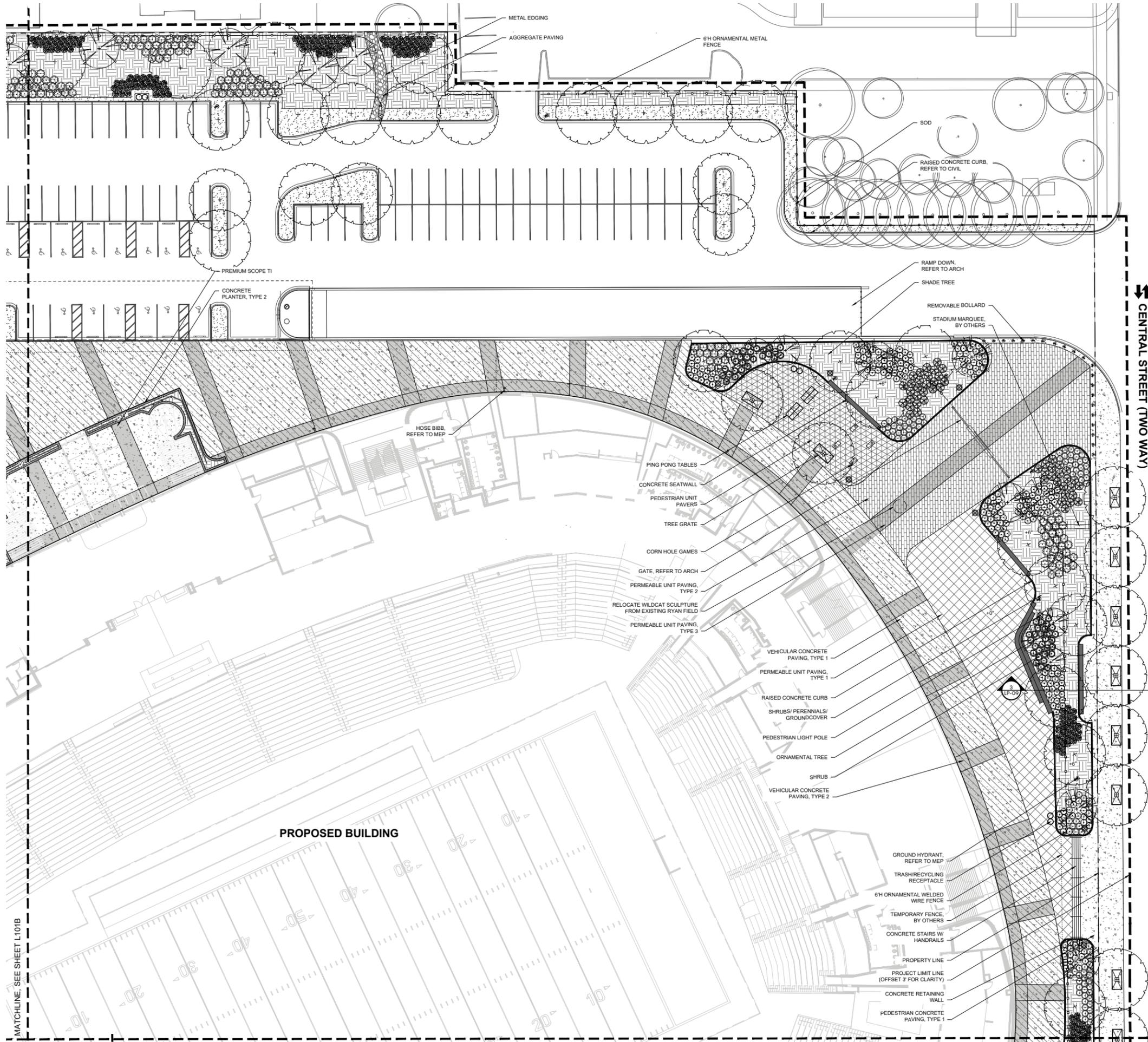
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LANDSCAPE SITE PLAN - ENLARGED

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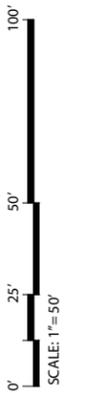




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LANDSCAPE SITE PLAN - ENLARGED



MATCHLINE, SEE SHEET L101B

MATCHLINE, SEE SHEET L101E

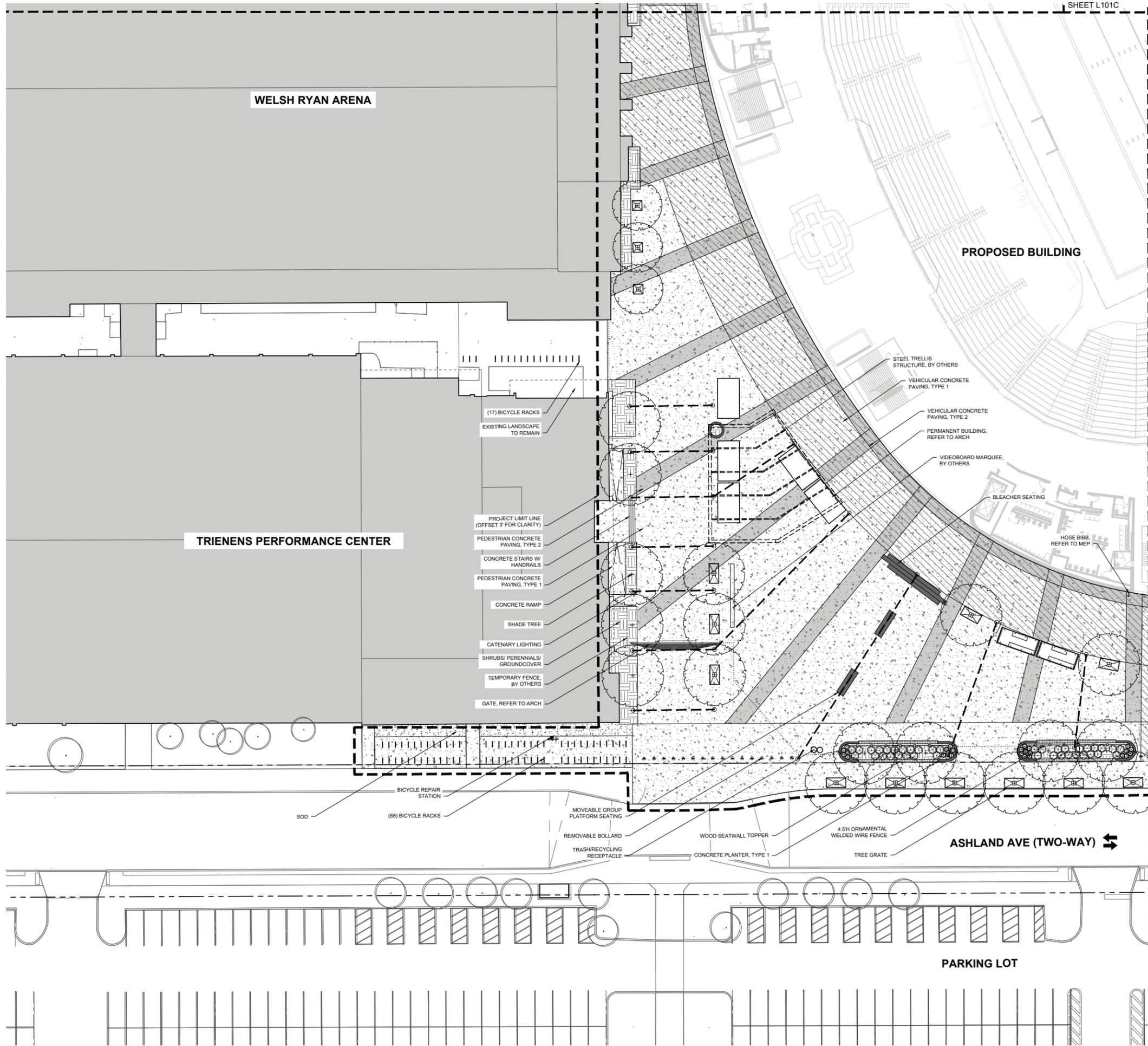


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LANDSCAPE SITE PLAN - ENLARGED

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- [Pattern] VEHICULAR CONCRETE PAVING, TYPE 2
- [Pattern] PEDESTRIAN UNIT PAVERS
- [Pattern] PERMEABLE UNIT PAVING, TYPE 1
- [Pattern] PERMEABLE UNIT PAVING, TYPE 2
- [Pattern] PERMEABLE UNIT PAVING, TYPE 3
- [Pattern] PIP RUBBER SURFACING
- [Pattern] AGGREGATE PAVING
- [Pattern] CONCRETE STAIRS W/ HANDRAILS
- [Pattern] CONCRETE PLANTER, TYPE 1
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- [Pattern] RAISED CONCRETE CURB
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- [Pattern] TRASH/RECYCLING RECEPTACLE
- [Pattern] DRINKING FOUNTAIN
- [Pattern] REMOVABLE BOLLARD
- [Pattern] PLAY ELEMENTS
- [Pattern] MOVEABLE TABLES AND CHAIRS
- [Pattern] TREE GRATE
- [Pattern] PING PONG TABLES
- [Pattern] CORN HOLE GAMES
- [Pattern] BICYCLE RACK
- [Pattern] BICYCLE REPAIR STATION
- [Pattern] PEDESTRIAN LIGHT POLE
- [Pattern] CATENARY LIGHTING
- [Pattern] EXISTING TREE TO REMAIN AND BE PROTECTED
- [Pattern] SHADE TREE
- [Pattern] ORNAMENTAL TREE
- [Pattern] SHRUBS
- [Pattern] SHRUBS/ PERENNIALS/ GROUNDCOVER
- [Pattern] SOD
- [Pattern] GROUND HYDRANT, REFER TO MEP



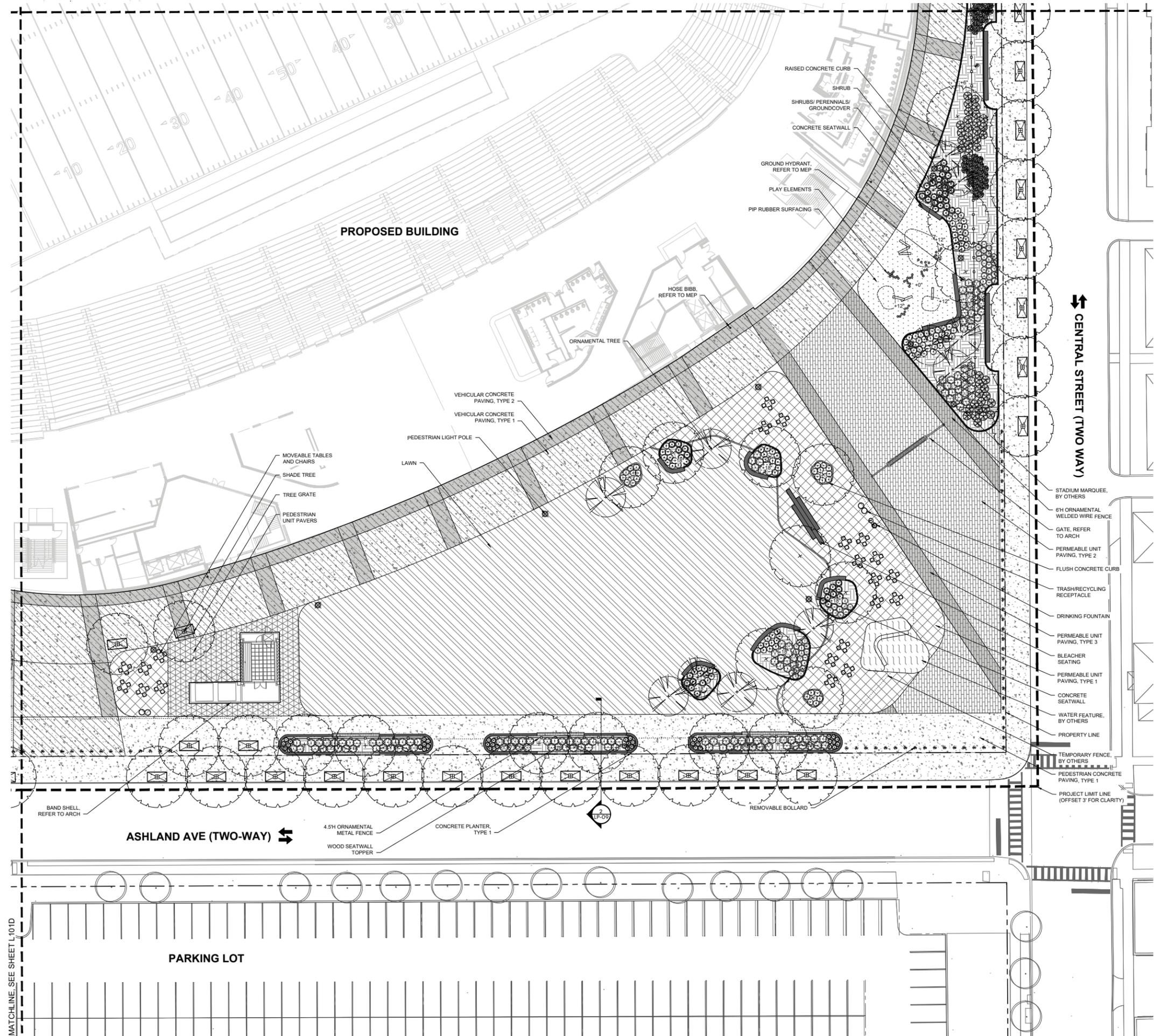


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LANDSCAPE SITE PLAN - ENLARGED



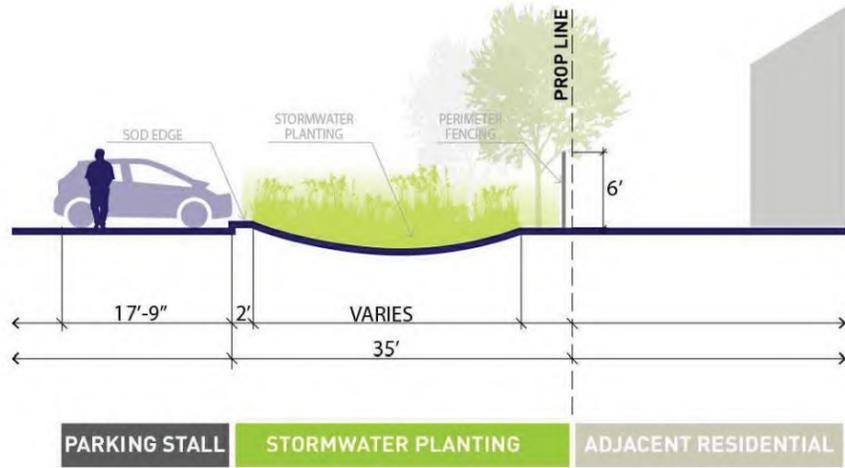
LP-08



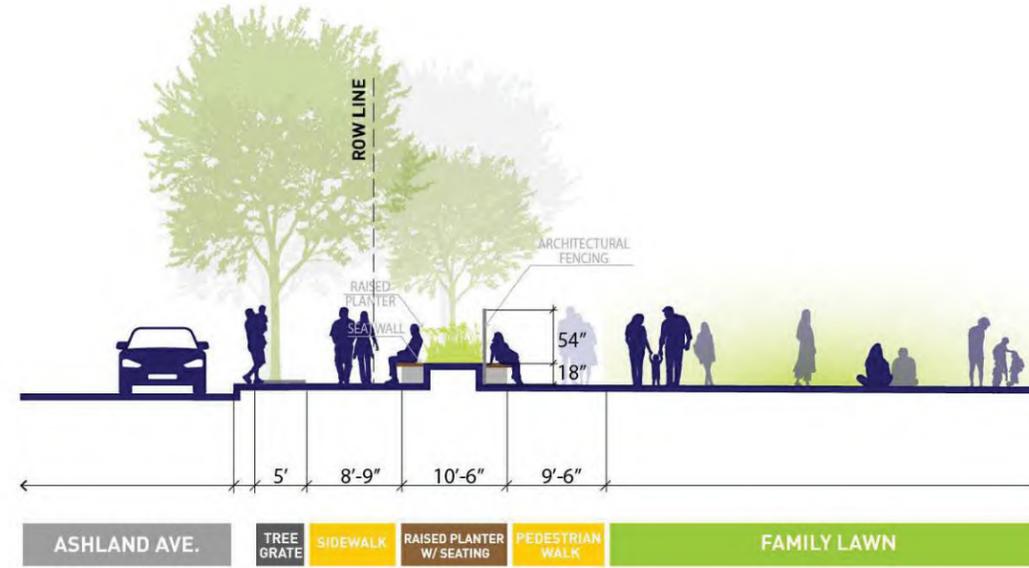
LEGEND

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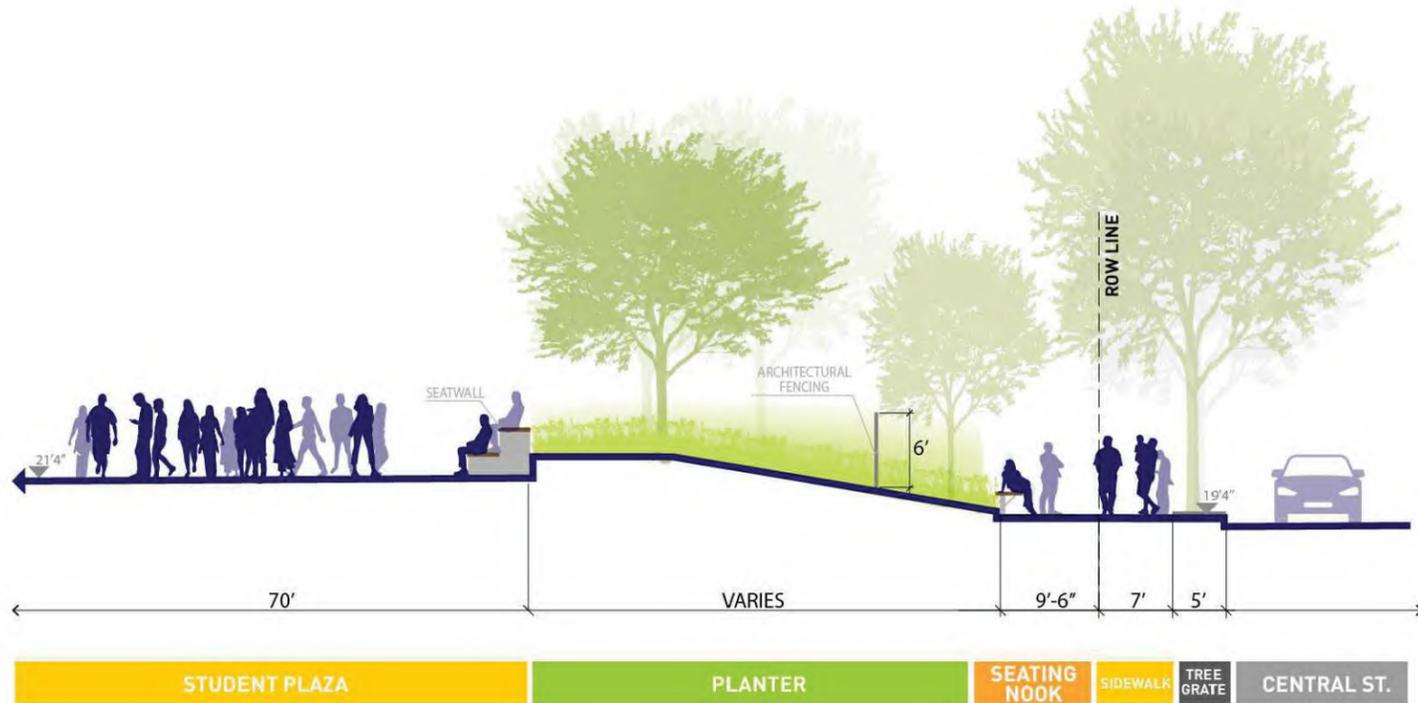
MATCHLINE, SEE SHEET L101D



1 SITE SECTION
NTS



2 SITE SECTION
NTS

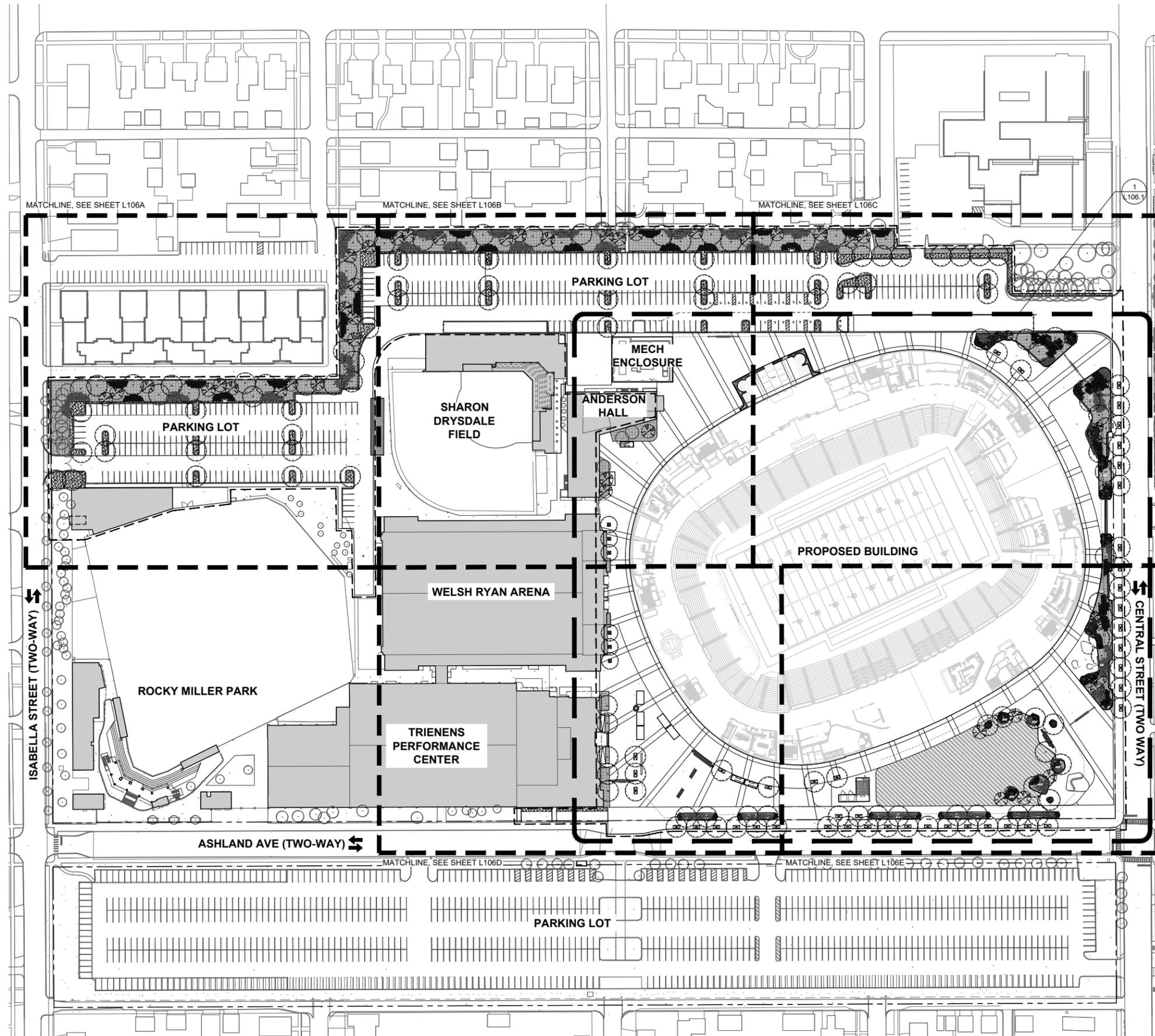


3 SITE SECTION
NTS





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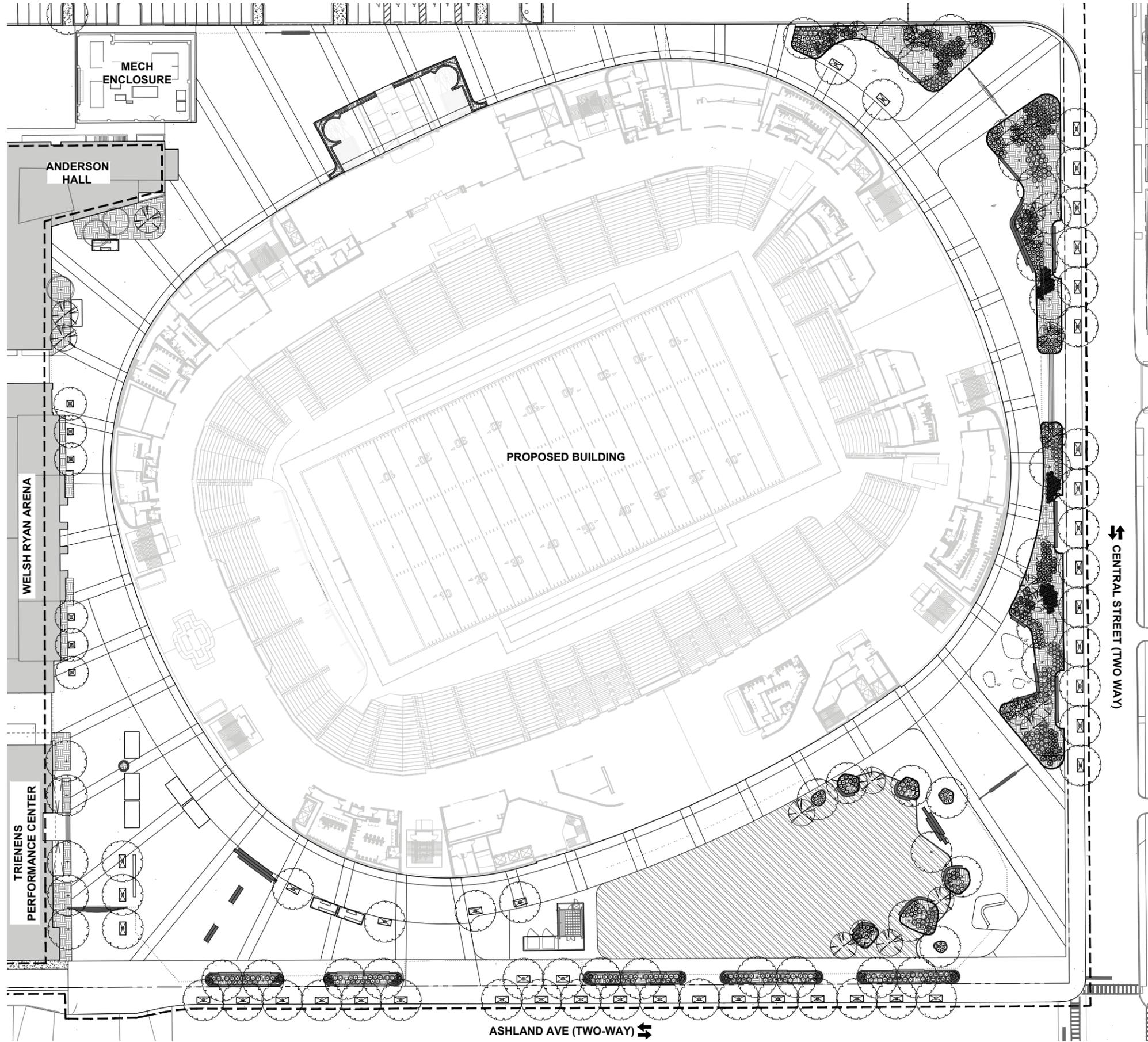


LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- SHADE TREE
- ORNAMENTAL TREE
- SHRUBS
- SHRUBS/ PERENNIALS/ GROUNDCOVER
- SOD

LANDSCAPING LOCATION & TREATMENT





LEGEND

- PROPERTY LINE
- PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- (with X) EXISTING TREE TO REMAIN AND BE PROTECTED
- SHADE TREE
- (with diagonal lines) ORNAMENTAL TREE
- (small clusters) SHRUBS
- ▨ SHRUBS/ PERENNIALS/ GROUNDCOVER
- ▩ SOD

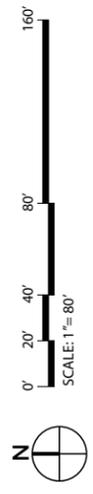


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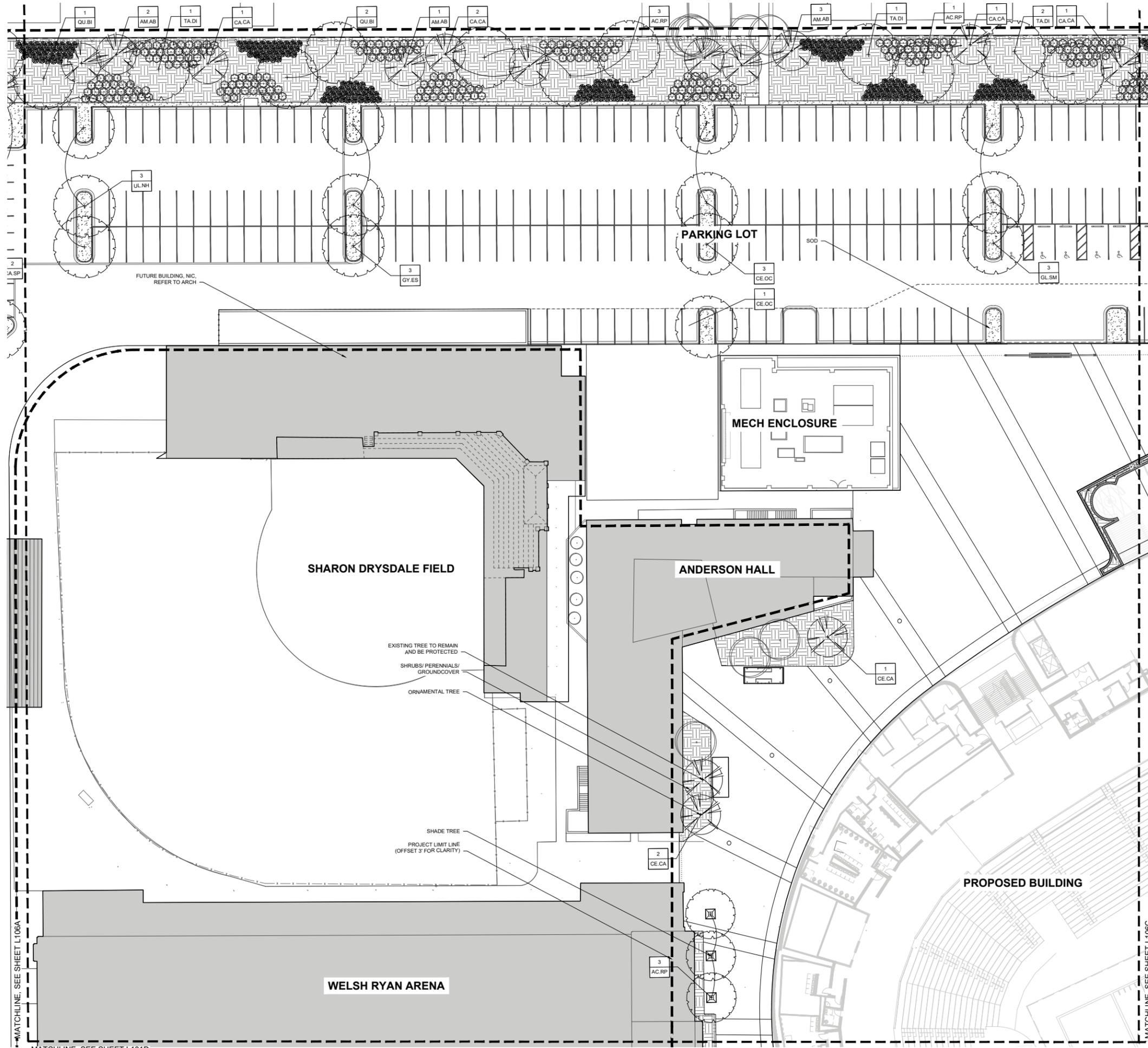
PROPOSED PLANTING - ENLARGED



LP-11



MAY 1, 2023



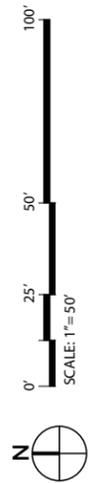
LEGEND

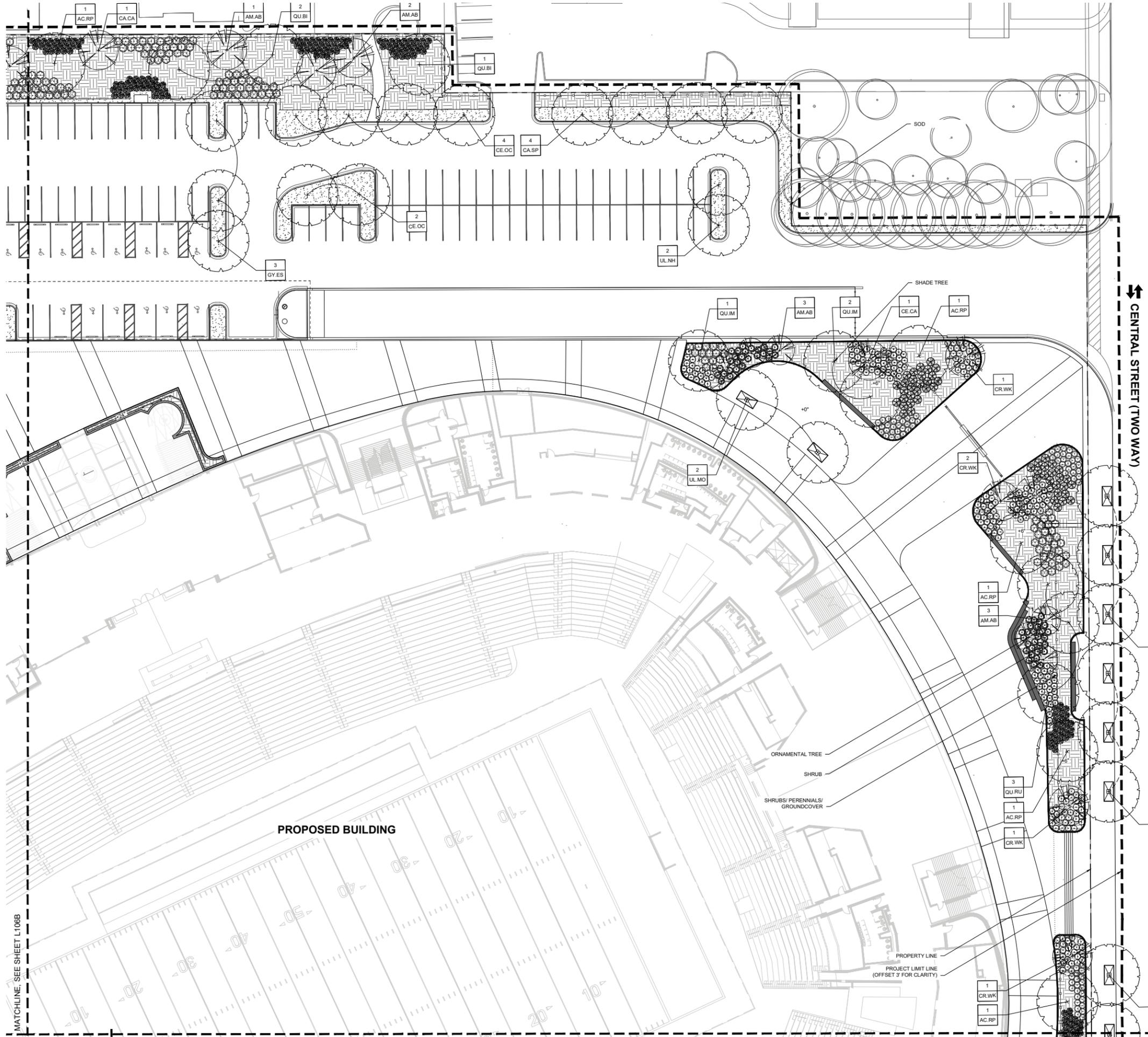
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PROPOSED PLANTING - ENLARGED





site
Landscape
architecture
urban design

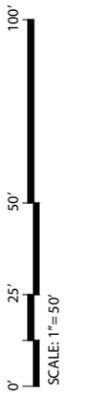
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PROPOSED PLANTING - ENLARGED



HNTB
Perkins&Will
MAY 1, 2023

LP-14

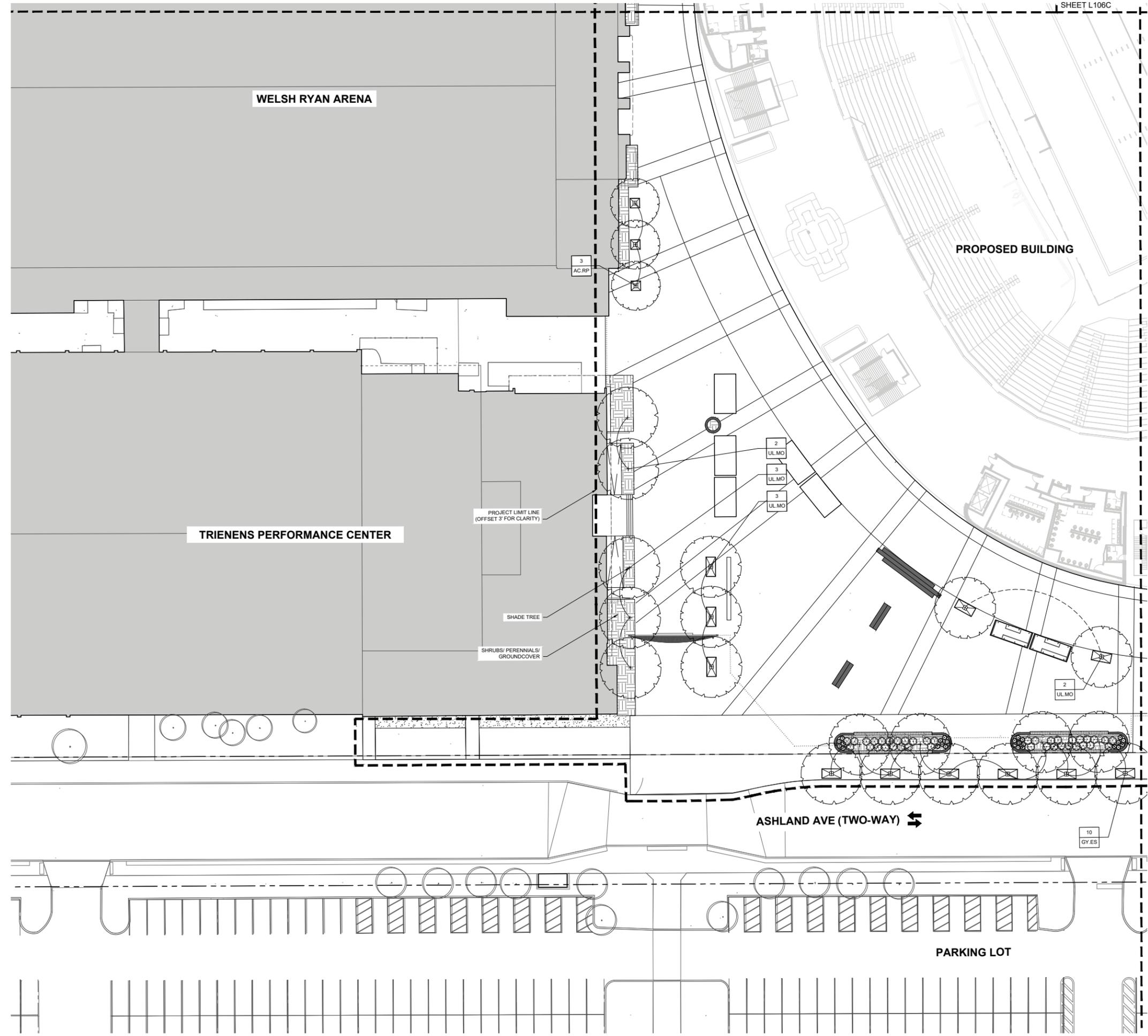


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PROPOSED PLANTING - ENLARGED

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WELSH RYAN ARENA

TRIENENS PERFORMANCE CENTER

PROPOSED BUILDING

ASHLAND AVE (TWO-WAY)

PARKING LOT

3
AC.RP

2
UL.MO
3
UL.MO
3
UL.MO

2
UL.MO

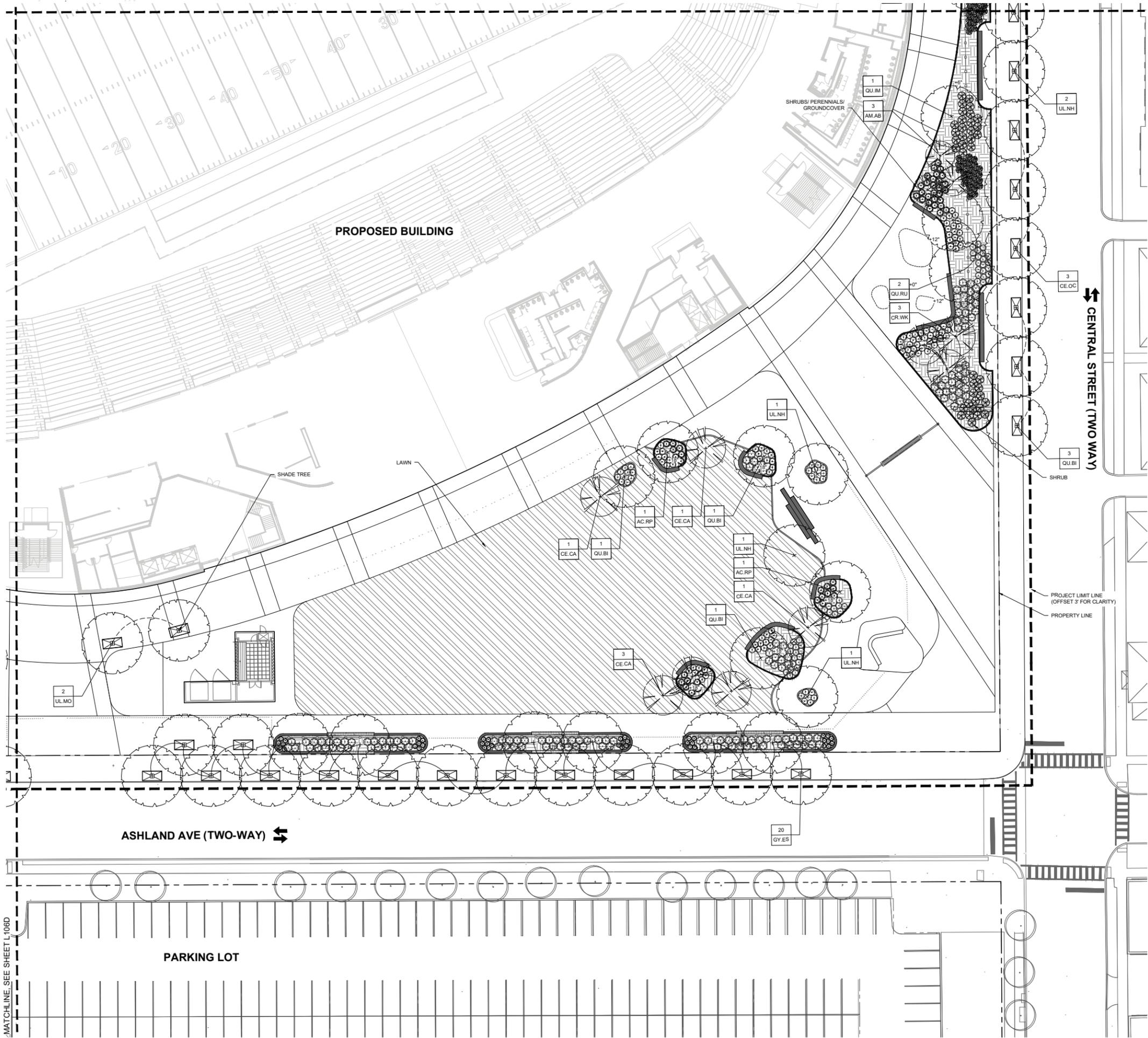
10
GY.ES

PROJECT LIMIT LINE
(OFFSET 3' FOR CLARITY)

SHADE TREE

SHRUBS/ PERENNIALS/
GROUNDCOVER

MAXIMUM OFF-CURB PLANT



MATCHLINE SEE SHEET L106D



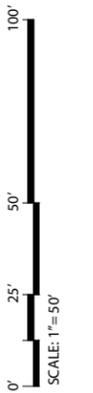
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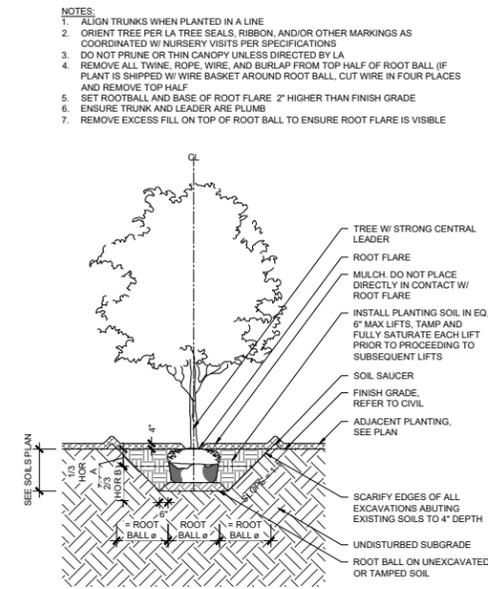
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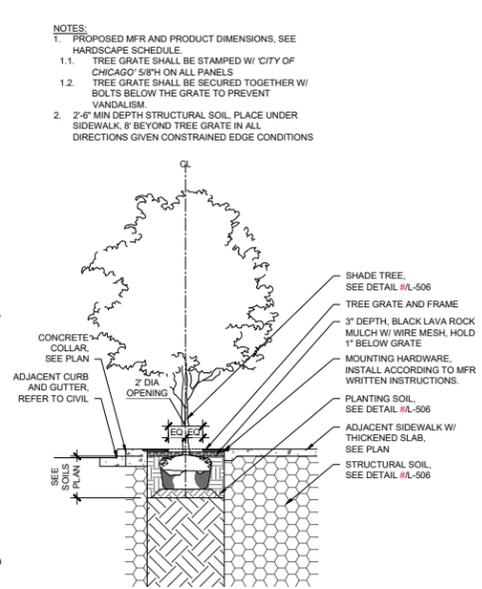


LP-16

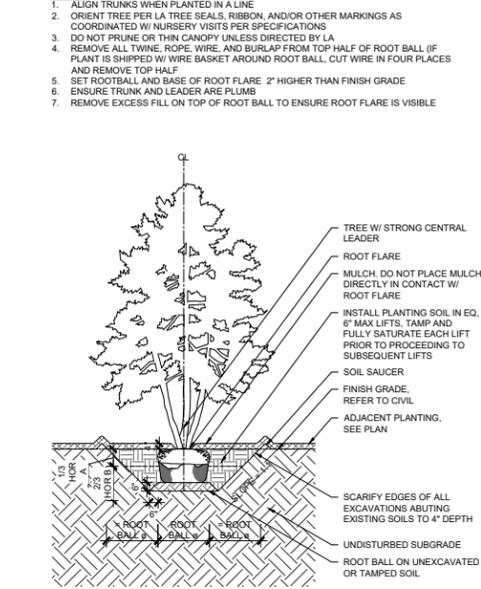
MAY 1, 2023



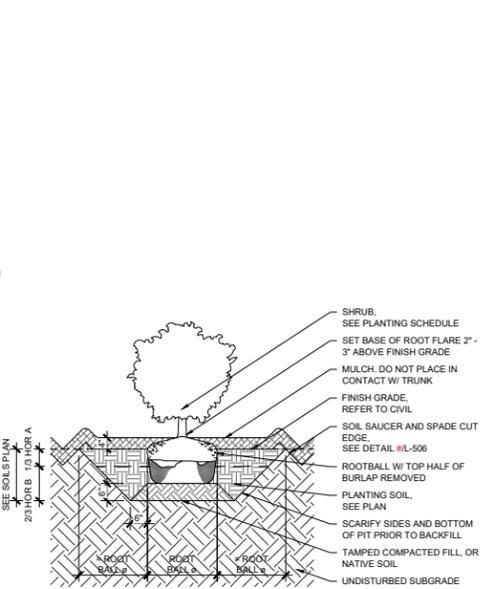
1 SHADE TREE SECTION



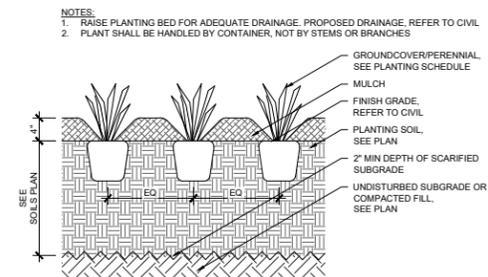
2 SHADE TREE WITHIN PARKWAY GRATE SECTION



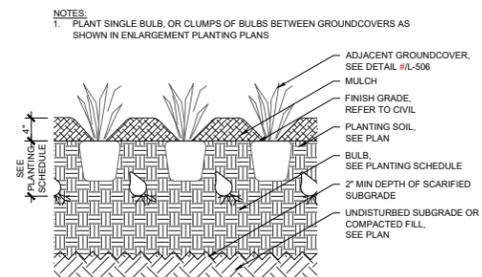
3 MULTI-STEM TREE SECTION



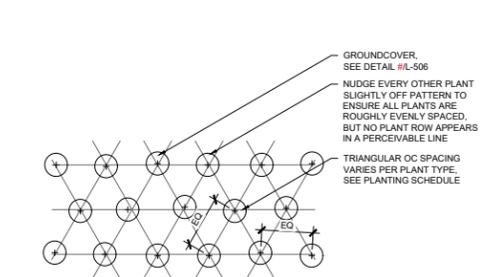
4 SHRUB SECTION



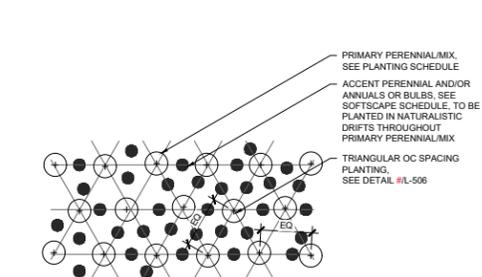
5 GROUND COVER/PERENNIAL SECTION



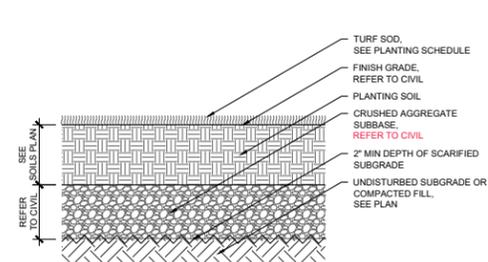
6 BULB SECTION



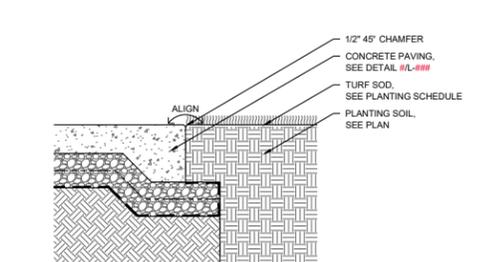
7 TRIANGULAR SPACING PLANTING PLAN



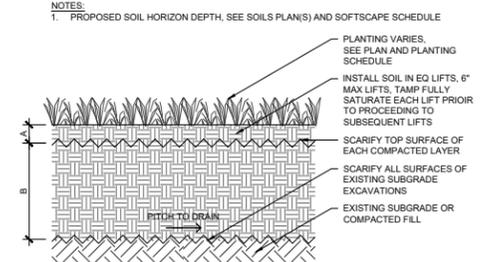
8 GROUND COVER INTERPLANTING PLAN



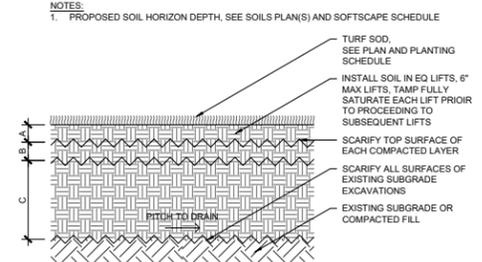
9 SOD SECTION



10 SOD TO CONCRETE PAVING SECTION



11 PLANTING SOIL SECTION



12 SOD PLANTING SOIL SECTION



NU RYAN FIELD PLANT SCHEDULE - STADIUM

SHADE TREES								QUANTITY BREAKDOWN	
CODE	QUANTITY	SCIENTIFIC NAME	COMMON NAME	ROOT	SIZE	REMARKS	NATIVE/CULTVAR	ADAPTIVE	
AC.RP	12	<i>Acer rubrum</i> 'Frank Jr.' PP #16,769	Redpointe® Red Maple	B&B	4" cal	6' clear branch height, Matching	yes	yes	TOTAL NUMBER OF PROPOSED 4" CAL SHADE TREES: (86) (372")
CE.OC	3	<i>Celtis occidentalis</i>	Common Hackberry	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GL.SM	3	<i>Gleditsia triacanthos var. inermis</i> 'Shademaster'	Shademaster Honey Locust	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GY.ES	30	<i>Gymnocladus dioica</i> 'Espresso'	Espresso Kentucky Coffeetree	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.BI	9	<i>Quercus bicolor</i>	Swamp White Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.IM	4	<i>Quercus imbricaria</i>	Shingle Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.RU	5	<i>Quercus rubra</i>	Northern Red Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
UL.NH	6	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	B&B	4" cal	6' clear branch height, Matching	no	yes	
UL.MO	14	<i>Ulmus</i> 'Morton Glossy'	Triumph Elm	B&B	6" cal	6' clear branch height, Matching	no	yes	
ORNAMENTAL TREES								TOTAL NUMBER OF PROPOSED 2" CAL ORNAMENTAL TREES: (27)	
AM.AB	9	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	B&B	10' ht, Multi	Multi stem, with a minimum of 5-8, 2" cal canes	yes	yes	TOTAL PROPOSED CALIPER INCHES: (54")
CE.CA	10	<i>Cercis canadensis</i>	Eastern Redbud	B&B	10' ht, Multi	Multi stem, with a minimum of 3-5, 2" cal canes. Northern Strain only	yes	yes	
CR.WK	8	<i>Crataegus viridis</i> 'Winter King'	Winter King Hawthorn	B&B	2" cal		yes	yes	
SHRUBS								TOTAL PLANTING AREA: 24,600 SF	
CO.BC		<i>Cornus sericea</i> 'Bergeson Compact'	Bergeson Compact Red Twig Dogwood	cont	24" ht	42" o.c.	yes	yes	9,800 SF @ 36" o.c. = 1,080 Approximately (1,100) 5 gallon shrubs
DI.KO		<i>Kodjak Orange</i>	Kodjak Orange Bush Honeysuckle	cont	24" w	36" o.c.	yes	yes	
HY.LI		<i>Hydrangea arborescens</i> 'NCHA8' LIMETTA	Invincible Limetta Smooth Hydrangea	cont	18" ht	30" o.c.	yes	yes	
HY.JA		<i>Hydrangea paniculata</i> 'Jane'	Little Lime Hydrangea	cont	24" ht	36" o.c.	no	yes	
RH.GL		<i>Rhus aromatica</i> 'Grow Low'	Grow Low Fragrant Sumac	cont	24" w	30" o.c.	yes	yes	
RO.WS		<i>Rosa rugosa</i> 'JACruwh'	Wild Spice Rose	cont	18" ht	30" o.c.	no	yes	
EVERGREEN SHRUBS								TOTAL PLANTING AREA: 24,600 SF	
JU.GO		<i>Juniperus virginiana</i> 'Grey Owl'	Grey Owl Juniper	cont	24" w	48" o.c.	yes	yes	PERENNIALS / GRASSES @ 60% of area: 14,700 SF Approximately (7,500) 1 gallon perennials
TA.EV		<i>Taxus x media</i> 'Everlow'	Everlow Yew	cont	24" w	42" o.c.	no	yes	
ORNAMENTAL GRASSES, PERENNIALS, & GROUNDCOVERS								TOTAL PLANTING AREA: 24,600 SF	
AL.M		<i>Allium</i> 'Millenium'	Millenium Allium	cont	#1	18" o.c.	no	yes	PERENNIALS / GRASSES @ 60% of area: 14,700 SF Approximately (7,500) 1 gallon perennials
AM.BI		<i>Amsonia</i> 'Blue Ice'	Blue Ice Blue Star	cont	#1	15" o.c.	yes	yes	
AM.SC		<i>Amsonia tabernaemontana</i> 'Storm Cloud'	Storm Cloud Blue Star	cont	#1	18" o.c.	yes	yes	
BA.PS		<i>Baptisia australis</i> 'Purple Smoke'	Purple Smoke False Indigo	cont	#2	24" o.c.	yes	yes	
CA.KF		<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Feather Reed Grass	cont	#2	21" o.c.	no	yes	
CAN.E		<i>Calamintha nepeta</i> ssp. <i>Nepeta</i>	Lesser Calamint	cont	#1	15" o.c.	no	yes	
CE.PL		<i>Ceratostigma plumaginoides</i>	Hardy Plumbago	pot	4"	8" o.c.	no	yes	
EC.AL		<i>Echinacea purpurea</i> 'Alba'	White Purple Coneflower	cont	#1	18" o.c.	yes	yes	
GE.BI		<i>Geranium x cantabrigiense</i> 'Biokovo'	Biokovo Cranesbill	cont	#1	15" o.c.	no	yes	
HE.PP		<i>Heuchera</i> 'Palace Purple'	Palace Purple Coral Bells	cont	#1	18" o.c.	no	yes	
PAN.W		<i>Panicum virgatum</i> 'Northwind'	Northwind Switch Grass	cont	#2	24" o.c.	yes	yes	
PY.MU		<i>Pycnanthemum muticum</i>	Mountain Mint	cont	#1	18" o.c.	yes	yes	
SAM.N		<i>Salvia x sylvestris</i> 'Mainacht' MAY NIGHT	May Night Salvia	cont	#1	18" o.c.	no	yes	
SC.CA		<i>Schizachyrium scoparium</i> 'Standing Ovation'	Standing Ovation Little Bluestem	cont	#1	18" o.c.	yes	yes	
SE.AU		<i>Sesleria autumnalis</i>	Autumn Moor Grass	cont	#1	12" o.c.	no	yes	
SP.TA		<i>Sporobolus heterolepis</i>	Prairie Dropseed	cont	#1	18" o.c.	yes	yes	
SY.PD		<i>Symphoricarpon novae-angliae</i> 'Purple Dome'	Purple Dome Aster	cont	#1	15" o.c.	yes	yes	
VLBV		<i>Viola minor</i> 'Bowles Variety'	Bowles Variety Periwinkle	pot	4"	8" o.c.	no	yes	
BULBS								TOTAL PLANTING AREA: 24,600 SF	
AL.ME		<i>Allium</i> 'Mount Everest'	Mount Everest Flowering Onion	bulb	18 cm	1 per sf	n/a	n/a	Bulbs @ 10% of area: 2,460 SF 2,450 SF @ 3 per SF = 4,900 Approximately (5,000) bulbs
AL.PS		<i>Allium</i> 'Gobemaster'	Gobemaster Flowering Onion	bulb	22 cm	1 per sf	n/a	n/a	
LE.GG		<i>Leucocjum aestivum</i> 'Gravelly Giant'	Summer Snowflake	blub	14 cm	4 per sf	n/a	n/a	
NA.MH		<i>Narcissus</i> 'Mount Hood'	Mount Hood Daffodil	blub	16 cm	2 per sf	n/a	n/a	
TU.NE		<i>Tulipa Triumph</i> 'Negrita'	Purple Trump Tulip	blub	12 cm	2 per sf	n/a	n/a	

TOTAL PROPOSED CALIPER INCHES FOR TREES AROUND STADIUM (426")

* Native or native cultivar species that support monarch butterflies

PLANT PALETTE - STADIUM

NU RYAN FIELD PLANT SCHEDULE - PARKING LOT / LANDSCAPED BUFFER

SHADE TREES								QUANTITY BREAKDOWN	
CODE	QUANTITY	SCIENTIFIC NAME	COMMON NAME	ROOT	SIZE	REMARKS	NATIVE/CULTVAR	ADAPTIVE	
AC.RP	11	<i>Acer rubrum</i> 'Frank Jr.' PP #16,769	Redpointe® Red Maple	B&B	4" cal	6' clear branch height, Matching	yes	yes	TOTAL NUMBER OF PROPOSED 4" CAL SHADE TREES: (77)
CA.SP	8	<i>Catalpa speciosa</i>	Northern Catalpa	B&B	4" cal	6' clear branch height, Matching	yes	yes	
CE.OC	14	<i>Celtis occidentalis</i>	Common Hackberry	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GL.SM	7	<i>Gleditsia triacanthos var. inermis</i> 'Shademaster'	Shademaster Honey Locust	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GY.ES	8	<i>Gymnocladus dioica</i> 'Espresso'	Espresso Kentucky Coffeetree	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.BI	12	<i>Quercus bicolor</i>	Swamp White Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.RU	2	<i>Quercus rubra</i>	Northern Red Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
TADI	9	<i>Taxodium distichum</i>	Bald Cypress	B&B	4" cal	6' clear branch height, Matching	yes	yes	
UL.NH	6	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	B&B	4" cal	6' clear branch height, Matching	no	yes	
ORNAMENTAL TREES								TOTAL NUMBER OF PROPOSED 2" CAL ORNAMENTAL TREES: (30)	
AM.AB	19	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	B&B	10' ht, Multi	Multi stem, with a minimum of 5-8, 2" cal canes	yes	yes	TOTAL PROPOSED CALIPER INCHES: (60")
CA.CA	11	<i>Carpinus caroliniana</i>	American Hornbeam	B&B	2" cal		yes	yes	
SHRUBS								TOTAL PLANTING AREA: 49,500 SF	
AR.ME		<i>Aronia melanocarpa</i> 'Autumn Magic'	Autumn Magic Black Chokeberry	cont	24" ht	48" o.c.	yes	yes	SHRUBS AREA @ 25% = 12,375 12,375 SF @ 36" o.c. = 1,400 Approximately (1,400) 5 gallon shrubs
CO.CA		<i>Cornus sericea</i> 'Cardinal'	Cardinal Red Twig Dogwood	cont	36" ht	48" o.c.	yes	yes	
IT.MO		<i>Itea virginica</i> 'Morton'	Scarlet Beauty™ Virginia Sweetspire	cont	24" ht	48" o.c.	yes	yes	
PERENNIALS								TOTAL PLANTING AREA: 49,500 SF	
AS.SY		<i>Asclepias syriaca</i>	Common Milkweed	cont	#1	18" o.c.	yes	yes	PERENNIALS AREA @ 15% = 7,400 7,400 SF @ 18" o.c. = 3,800 Approximately (3,800) 1 gallon perennials
AS.TU		<i>Asclepias tuberosa</i>	Butterflyweed	cont	#1	18" o.c.	yes	yes	
AS.IN		<i>Asclepias incarnata</i>	Swamp Milkweed	cont	#1	21" o.c.	yes	yes	
EC.PU		<i>Echinacea purpurea</i>	Purple coneflower	cont	#1	18" o.c.	yes	yes	
MO.FI		<i>Monarda fistulosa</i>	Wild Bergamot	cont	#1	18" o.c.	yes	yes	
PA.VI		<i>Panicum virgatum</i>	Switchgrass	cont	#2	24" o.c.	yes	yes	
VE.VI		<i>Veronicastrum virginicum</i>	Culver's Root	cont	#1	21" o.c.	yes	yes	

TOTAL PROPOSED CALIPER INCHES FOR TREES IN PARKING LOT / LANDSCAPE BUFFER: (368")

* Native or native cultivar species that support monarch butterflies

NU RYAN FIELD PLANT SCHEDULE - PARKING LOT / LANDSCAPED BUFFER (TOTAL AREA: 29,700 SF)							QUANTITY BREAKDOWN	
CODE	BOTANICAL NAME	COMMON NAME	SEED/OZ	OZ/ACRE	LB/ACRE	% OF MIX	% BY WEIGHT	% BY SEED COUNT
Grasses, Sedges, & Rushes								
CALCAN	<i>Calamagrostis canadensis</i>	Blue Joint Grass	28,000	0.75	0.09		0.3	2.29
CXBREV	<i>Carex brevior</i>	Plains Oval Sedge	29,000	2	0.13		0.79	0.63
CXCRIS	<i>Carex cristatella</i>	Crested Oval Sedge	58,000	1.5	0.09		0.59	0.98
CXMOLE	<i>Carex molesta</i>	Field Oval Sedge	25,000	4	0.25		1.58	1.09
CXSCOP	<i>Carex scoparia</i>	Lance-fruited Oval Sedge	84,000	2	0.13		0.79	1.83
CXSTP	<i>Carex stipula</i>	Common Fox Sedge	34,000	2	0.13		0.79	0.74
CRVULP	<i>Carex vulpinoidea</i>	Brown Fox Sedge	100,000	4	0.25		1.58	4.38
ELEPAL	<i>Eleocharis palustris</i>	Great Spike Rush	51,000	1	0.06		0.4	0.56
ELYVIR	<i>Elymus virginicus</i>	Virginia Wild Rye	4,200	48	3		18.96	2.2
GLYSTR	<i>Glyceria striata</i>	Fowl Manna Grass	90,000	2	0.13		0.79	1.98
JUNDUD	<i>Juncus dudleyi</i>	Dudley's Rush	3,200,000	1	0.06		0.4	34.91
PANVIR	<i>Panicum virgatum</i>	Switch Grass	14,000	16	1		6.32	2.44
SCIATR	<i>Scirpus atrovirens</i>	Dark-green Bulrush	460,000	0.13	0.01		0.05	0.63
SPAPEC	<i>Spartina pectinata</i>	Coast Grass	6,600	32	2		12.64	2.3
Grass/Sedge Subtotals							7.273	45.98
Wildflowers								
ALLCER	<i>Allium cernuum</i>	Nodding Onion	7,600	12	0.75		4.74	0.99
ASCINC	<i>Asclepias incarnata</i>	Swamp Milkweed	4,800	6	0.38		2.37	0.31
BIDCER	<i>Bidens cernua</i>	Nodding Bur Marigold	21,000	1.5	0.09		0.59	0.34
BOLAST	<i>Botanilla asteroides</i>	False Aster	160,000	0.5	0.03		0.2	0.87
CHAFAS	<i>Chamaecrista fasciculata</i>	Partridge Pea	2,700	16	1		6.32	0.47
CORTRI	<i>Coreopsis tripteris</i>	Tall Coreopsis	14,000	4	0.25		1.58	0.61
DESCAA	<i>Desmodium canadense</i>	Showy Tick Trefoil	5,500	3	0.19		1.19	0.18
DOELUM	<i>Doellingeria umbellata</i>	Flat-topped Aster	67,000	1.5	0.09		0.59	1.1
ECHPUR	<i>Echinacea purpurea</i>	Purple Coneflower	6,600	4	0.25		1.58	0.29
ERYYUC	<i>Eryngium yuccifolium</i>	Rattlesnake Master	7,500	16	1		6.32	1.31
EUPPER	<i>Eupatorium perfoliatum</i>	Boneset	160,000	0.25	0.02		0.1	0.44
EUTGRA	<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	350,000	1	0.06		0.4	3.82
EUTMAC	<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed	95,000	0.5	0.03		0.2	0.52
HELALT	<i>Helium autumnale</i>	Sneezeweed	130,000	1	0.06		0.4	1.42
LIAPYC	<i>Liatris pycnostachya</i>	Prairie Blazing Star	11,000	6	0.38		2.37	0.72
LIASPI	<i>Liatris spicata</i>	March Blazing Star	11,000	2	0.13		0.79	0.24
MONFIS	<i>Monarda fistulosa</i>	Wild Bergamot	70,000	4	0.25		1.58	3.95
PRENDIG	<i>Pyrostemmon digitata</i>	Fourglow Beardtongue	130,000	2	0.13		0.79	2.84
PRYVIR	<i>Pyronanthemum virginicum</i>	Virginia Mountain Mint	220,000	2	0.13		0.79	4.8
RUDHR	<i>Rudbeckia hirta</i>	Black-eyed Susan	92,000	4	0.5		3.16	8.03
RUDSUB	<i>Rudbeckia submontana</i>	Sweet Black-eyed Susan	43,000	2	0.13		0.79	0.94
RUDTRI	<i>Rudbeckia triloba</i>	Brown-eyed Susan	34,000	2	0.13		0.79	0.74
SILLAC	<i>Siphium laciniatum</i>	Compass Plant	660	6	0.38		2.37	0.04
SILTER	<i>Siphium ternstroemianum</i>	Prairie Dock	1,000	3	0.19		1.19	0.03
SOLRID	<i>Solidago riddellii</i>	Riddell's Goldenrod	93,000	0.5	0.03		0.2	0.51
SOLRIG	<i>Solidago rigida</i>	Stiff Goldenrod	41,000	4	0.25		1.58	1.79
SYMNOV	<i>Symphoricarpon novae-angliae</i>	New England Aster	66,000	3	0.19		1.19	2.16
THADAS	<i>Thalictrum dasycarpum</i>	Thalictrum Meadow Rue	11,000	2	0.13		0.79	0.24
TRAOHI	<i>Tradescantia ohioensis</i>	Ohio Spiderwort	8,000	12	0.75		4.74	1.05
VERHAS	<i>Verbena hastata</i>	Blue Vervain	93,000	2	0.13		0.79	2.03
VERFAS	<i>Vernonia fasciculata</i>	Common Ironweed	24,000	1	0.06		0.4	0.26
ZZALUR	<i>Zizia aurea</i>	Golden Alexanders	11,000	8	0.5		3.16	0.96
Wildflower Subtotals							8.547	54.02
MX TOTALS							15.82	



**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**



1 CAST-IN-PLACE CONCRETE



2 CAST-IN-PLACE CONCRETE-ACID ETCH



3 PEDESTRIAN UNIT PAVERS AND PERMEABLE UNIT PAVERS - TYPE 1



4 PERMEABLE UNIT PAVERS - TYPE 2



5 PERMEABLE UNIT PAVERS - TYPE 3



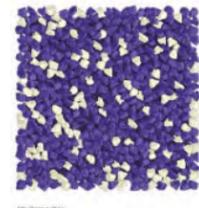
1 CORN HOLE GAMES



2 BICYCLE RACK



3 BICYCLE REPAIR STATION



6 PIP RUBBER SURFACING



7 AGGREGATE PAVING



8 CONCRETE SEATWALL



9 RAISED CONCRETE CURB



10 6H ORNAMENTAL METAL FENCE



4 HANDRAIL



5 CATENARY OVERHEAD LIGHTING



11 4.5H & 6H ORNAMENTAL WELDED WIRE FENCE



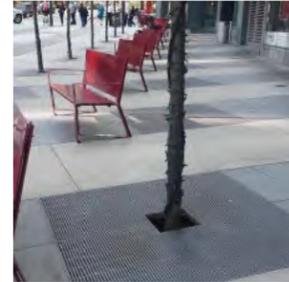
12 TRASH/RECYCLING RECEPTACLES



13 DRINKING FOUNTAIN



14 REMOVABLE BOLLARD



15 TREE GRATE



6 PEDESTRIAN POLE LIGHTING



7 INTEGRAL LINEAR BENCH LIGHTING



16 WOOD SEATWALL TOPPER



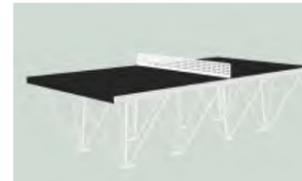
17 GROUP PLATFORM SEATING



18 BLEACHER SEATING

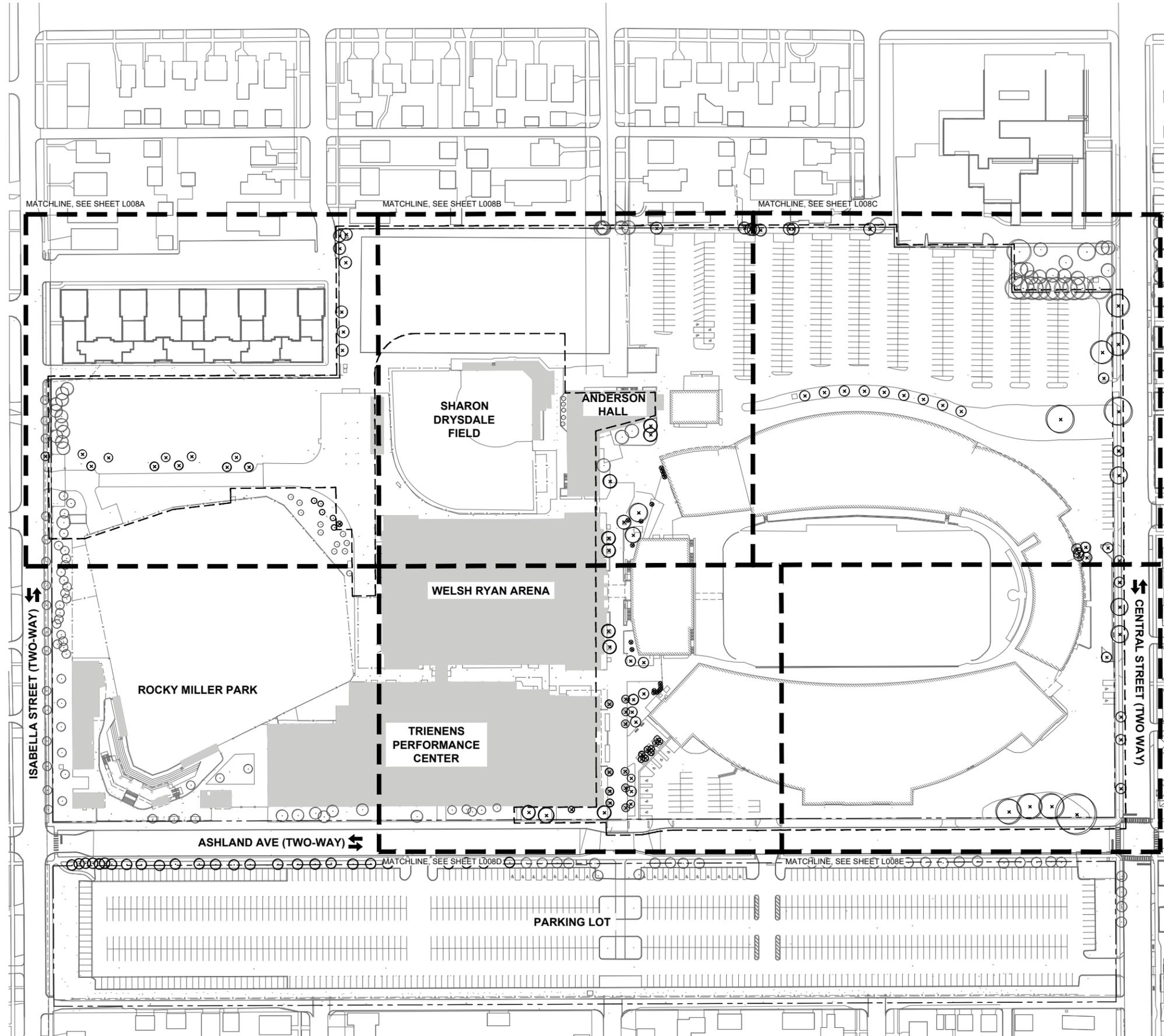


19 MOVEABLE TABLE & CHAIRS



20 PING PONG TABLE

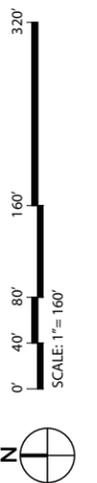
MATERIAL PALETTE



LEGEND

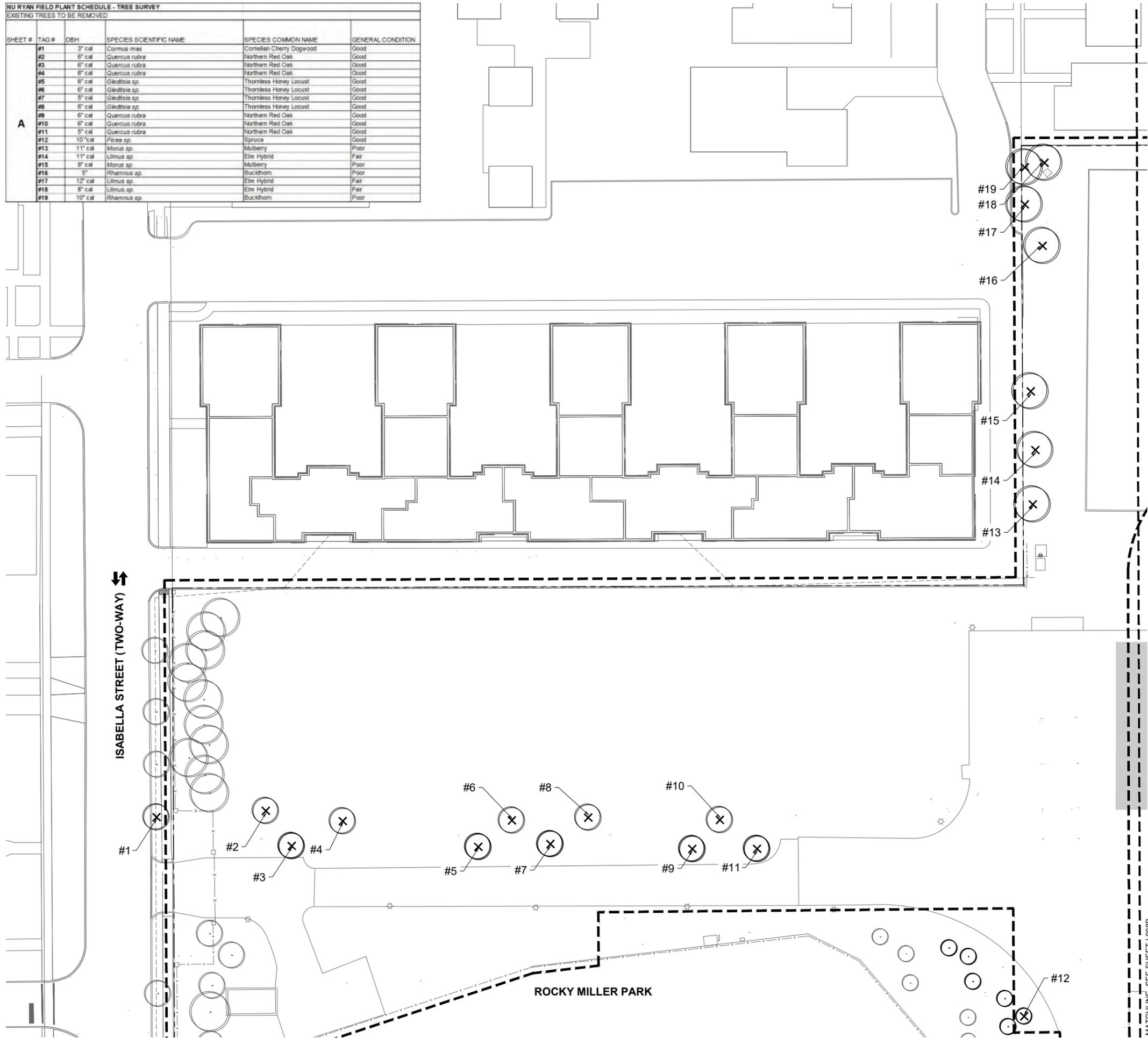
- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊗ EXISTING TREE TO BE REMOVED

TREE PRESERVATION PLAN



NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY
EXISTING TREES TO BE REMOVED

SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
A	#1	3" cal	<i>Cornus mas</i>	Cornelian Cherry Dogwood	Good
A	#2	8" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
A	#3	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
A	#4	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
A	#5	6" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
A	#6	6" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
A	#7	5" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
A	#8	6" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
A	#9	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
A	#10	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
A	#11	5" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
A	#12	10" cal	<i>Picea sp.</i>	Spruce	Good
A	#13	11" cal	<i>Morus sp.</i>	Mulberry	Poor
A	#14	11" cal	<i>Ulmus sp.</i>	Elm Hybrid	Fair
A	#15	9" cal	<i>Morus sp.</i>	Mulberry	Poor
A	#16	5"	<i>Rhamnus sp.</i>	Buckthorn	Poor
A	#17	12" cal	<i>Ulmus sp.</i>	Elm Hybrid	Fair
A	#18	8" cal	<i>Ulmus sp.</i>	Elm Hybrid	Fair
A	#19	10" cal	<i>Rhamnus sp.</i>	Buckthorn	Poor



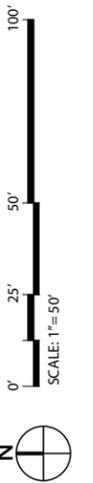
LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊗ EXISTING TREE TO BE REMOVED



**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

TREE PRESERVATION PLAN - ENLARGED



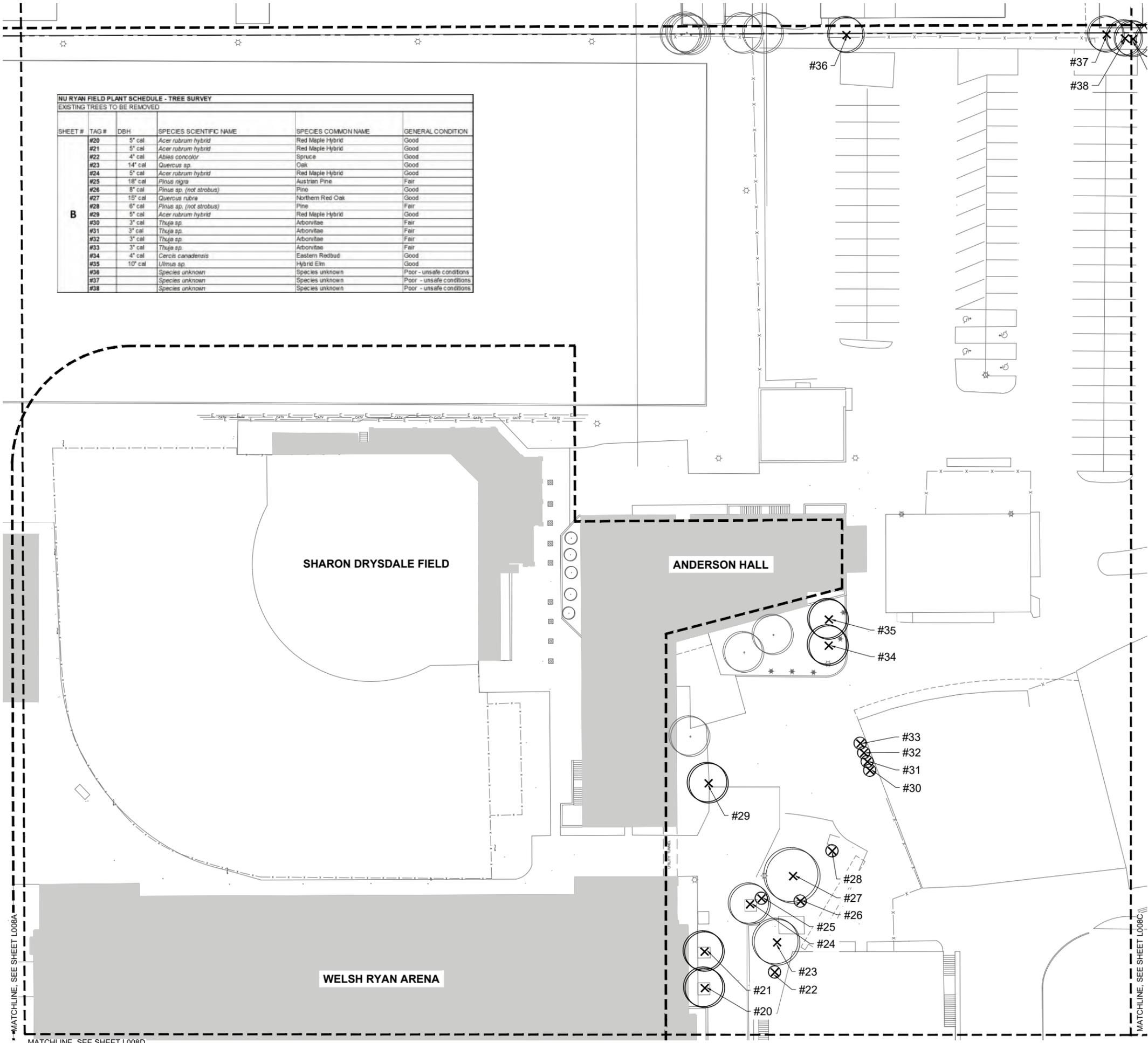
LP-21

MAY 1, 2023

MATCHLINE - SEE SHEET L008B

NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY
EXISTING TREES TO BE REMOVED

SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
B	#20	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good
	#21	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good
	#22	4" cal	<i>Abies concolor</i>	Spruce	Good
	#23	14" cal	<i>Quercus sp.</i>	Oak	Good
	#24	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good
	#25	18" cal	<i>Pinus nigra</i>	Austrian Pine	Fair
	#26	8" cal	<i>Pinus sp. (not strobus)</i>	Pine	Good
	#27	15" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#28	6" cal	<i>Pinus sp. (not strobus)</i>	Pine	Fair
	#29	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good
	#30	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair
	#31	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair
	#32	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair
	#33	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair
	#34	4" cal	<i>Cercis canadensis</i>	Eastern Redbud	Good
	#35	10" cal	<i>Ulmus sp.</i>	Hybrid Elm	Good
	#36			Species unknown	Poor - unsafe conditions
	#37			Species unknown	Poor - unsafe conditions
#38			Species unknown	Poor - unsafe conditions	



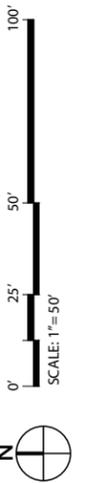
LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊗ EXISTING TREE TO BE REMOVED



**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

TREE PRESERVATION PLAN - ENLARGED



LP-22
MAY 1, 2023

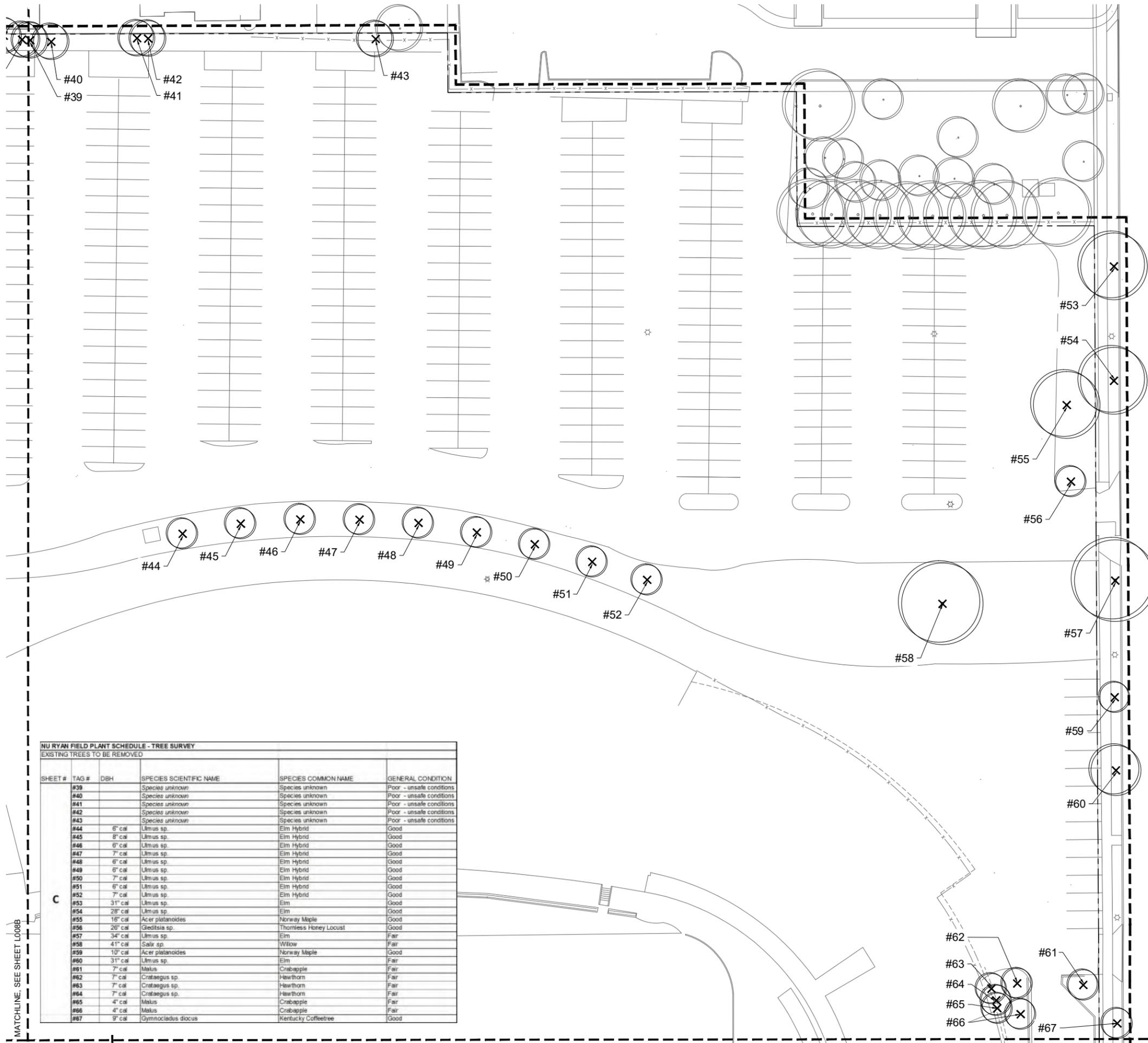


**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

TREE PRESERVATION PLAN - ENLARGED

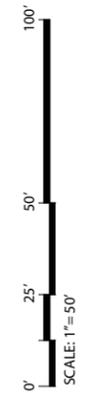
LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊗ EXISTING TREE TO BE REMOVED



NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY
EXISTING TREES TO BE REMOVED

SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
C	#39		Species unknown	Species unknown	Poor - unsafe conditions
C	#40		Species unknown	Species unknown	Poor - unsafe conditions
C	#41		Species unknown	Species unknown	Poor - unsafe conditions
C	#42		Species unknown	Species unknown	Poor - unsafe conditions
C	#43		Species unknown	Species unknown	Poor - unsafe conditions
C	#44	6" cal	Ulmus sp.	Elm Hybrid	Good
C	#45	8" cal	Ulmus sp.	Elm Hybrid	Good
C	#46	6" cal	Ulmus sp.	Elm Hybrid	Good
C	#47	7" cal	Ulmus sp.	Elm Hybrid	Good
C	#48	6" cal	Ulmus sp.	Elm Hybrid	Good
C	#49	6" cal	Ulmus sp.	Elm Hybrid	Good
C	#50	7" cal	Ulmus sp.	Elm Hybrid	Good
C	#51	6" cal	Ulmus sp.	Elm Hybrid	Good
C	#52	7" cal	Ulmus sp.	Elm Hybrid	Good
C	#53	31" cal	Ulmus sp.	Elm	Good
C	#54	28" cal	Ulmus sp.	Elm	Good
C	#55	16" cal	Acer platanoides	Norway Maple	Good
C	#56	26" cal	Gleditsia sp.	Thornless Honey Locust	Good
C	#57	34" cal	Ulmus sp.	Elm	Fair
C	#58	41" cal	Salix sp.	Willow	Fair
C	#59	10" cal	Acer platanoides	Norway Maple	Good
C	#60	31" cal	Ulmus sp.	Elm	Fair
C	#61	7" cal	Malus	Crabapple	Fair
C	#62	7" cal	Crataegus sp.	Hawthorn	Fair
C	#63	7" cal	Crataegus sp.	Hawthorn	Fair
C	#64	7" cal	Crataegus sp.	Hawthorn	Fair
C	#65	4" cal	Malus	Crabapple	Fair
C	#66	4" cal	Malus	Crabapple	Fair
C	#67	9" cal	Gymnocladus dioica	Kentucky Coffeetree	Good



MATCHLINE - SEE SHEET L008B

MATCHLINE - SEE SHEET L008C

NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY					
EXISTING TREES TO BE REMOVED					
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
D	#68	16" cal	<i>Pinus nigra</i>	Austrian Pine	Good
D	#69	14" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Good
D	#70	2" cal	<i>Amelanchier</i>	Serviceberry	Good
D	#71	6" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Poor
D	#72	4" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#73	7" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Good
D	#74	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#75	10" cal	<i>Ulmus</i> sp.	Hybrid Elm	Good
D	#76	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#77	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#78	6" cal	<i>Quercus bicolor</i>	Swamp White Oak	Good
D	#79	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#80	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#81	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#82	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#83	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#84	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#85	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#86	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#87	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#88	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#89	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#90	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#91	3" cal	<i>Crotaegus</i> sp.	Hawthorn	Good
D	#92	9" cal	<i>Ulmus</i> sp.	Elm Hybrid	Good
D	#93	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#94	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#95	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#96	6" cal	<i>Quercus bicolor</i>	Swamp White Oak	Good
D	#97	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
D	#98	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#99	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#100	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#101	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#102	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#103	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#104	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#105	6" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Good
D	#106	7" cal	<i>Ulmus</i> sp.	Elm Hybrid	Good
D	#107	5" cal	<i>Abies concolor</i>	White Fir	Good
D	#108	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#109	3" cal	<i>Picea abies</i>	Norway Spruce	Good
D	#110	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good

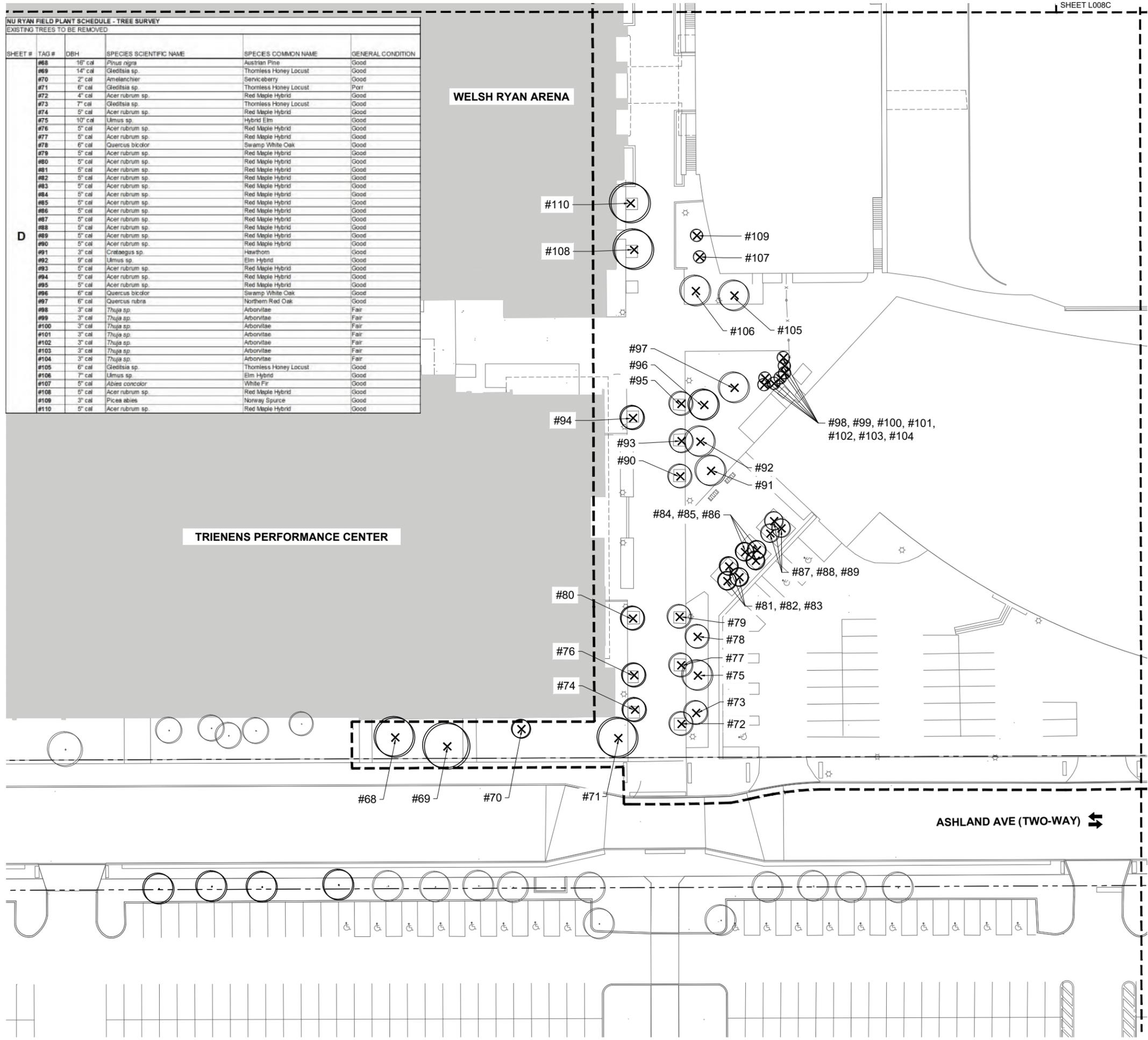
WELSH RYAN ARENA

TRIENENS PERFORMANCE CENTER

ASHLAND AVE (TWO-WAY)

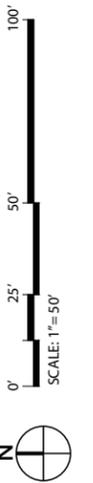
LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊗ EXISTING TREE TO BE REMOVED

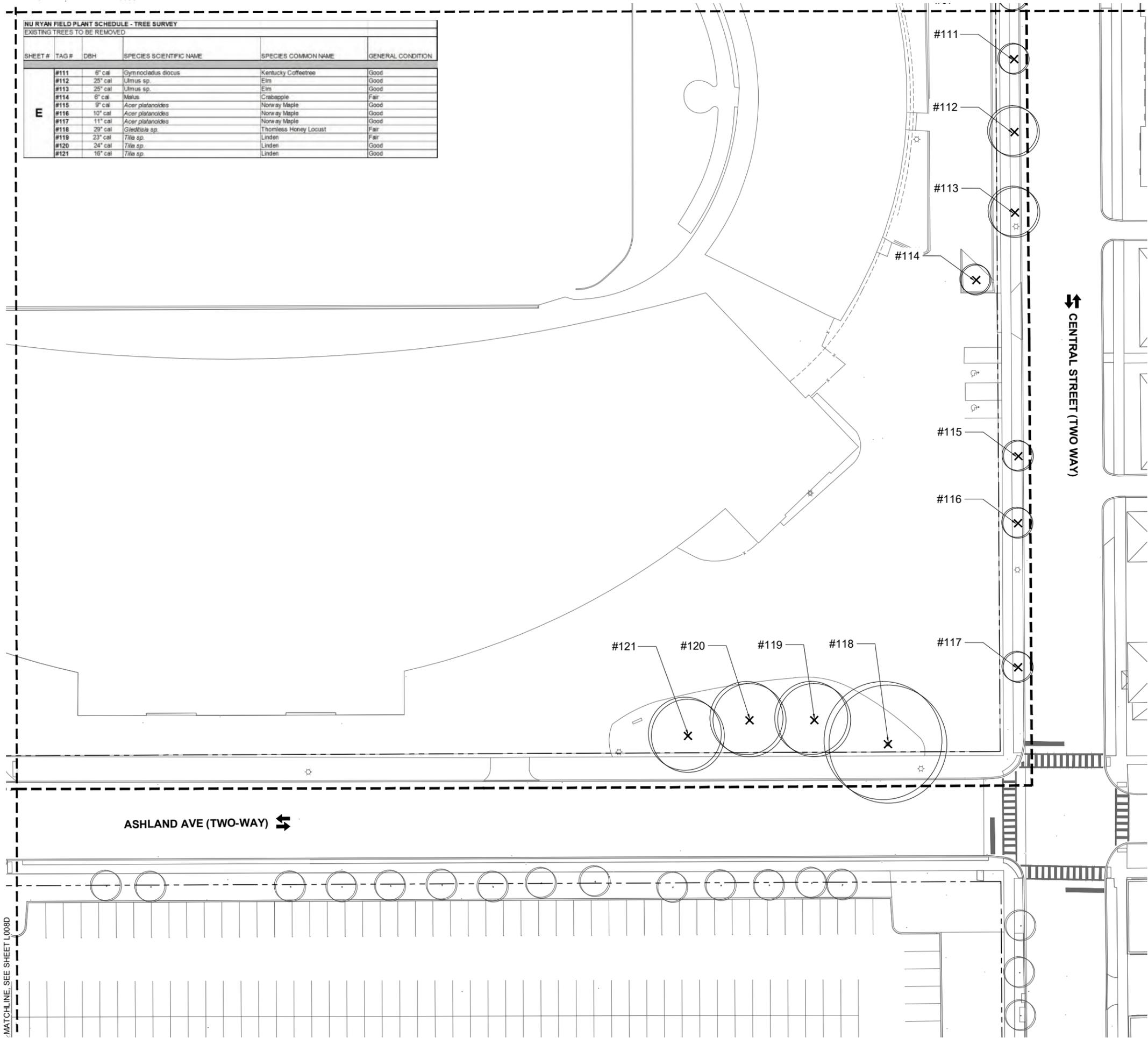


NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION

TREE PRESERVATION PLAN - ENLARGED



NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY					
EXISTING TREES TO BE REMOVED					
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
E	#111	6" cal	<i>Gymnocladus dioica</i>	Kentucky Coffeetree	Good
	#112	25" cal	<i>Ulmus sp.</i>	Elm	Good
	#113	25" cal	<i>Ulmus sp.</i>	Elm	Good
	#114	6" cal	<i>Malus</i>	Crabapple	Fair
	#115	9" cal	<i>Acer platanoides</i>	Norway Maple	Good
	#116	10" cal	<i>Acer platanoides</i>	Norway Maple	Good
	#117	11" cal	<i>Acer platanoides</i>	Norway Maple	Good
	#118	29" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Fair
	#119	23" cal	<i>Tilia sp.</i>	Linden	Fair
	#120	24" cal	<i>Tilia sp.</i>	Linden	Good
	#121	16" cal	<i>Tilia sp.</i>	Linden	Good



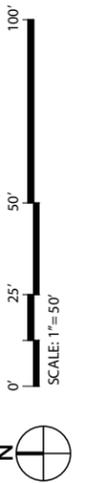
LEGEND

- PROPERTY LINE
- PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED



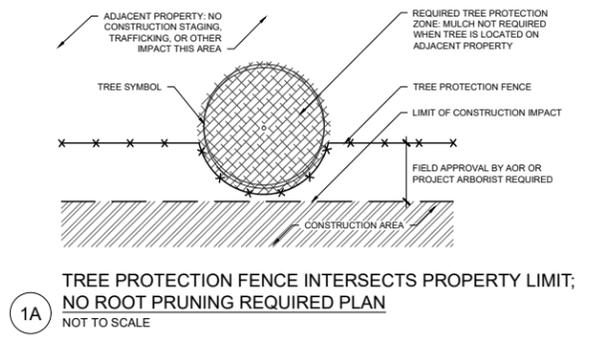
**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

TREE PRESERVATION PLAN - ENLARGED

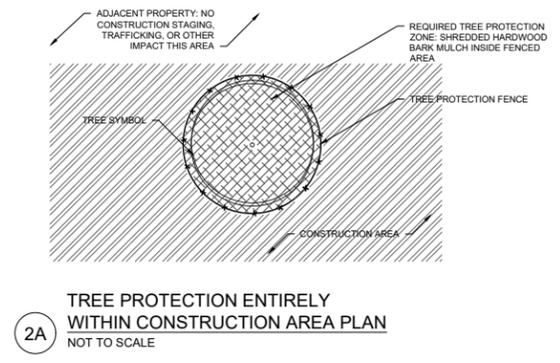


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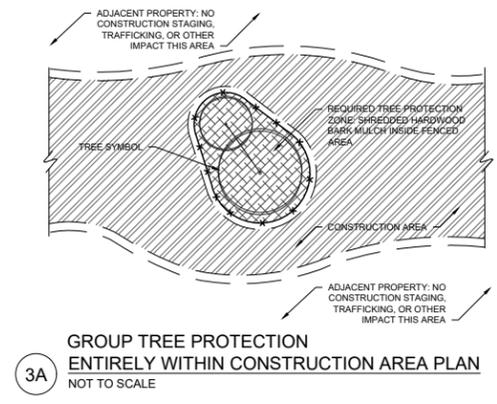
MATCHLINE SEE SHEET L008D



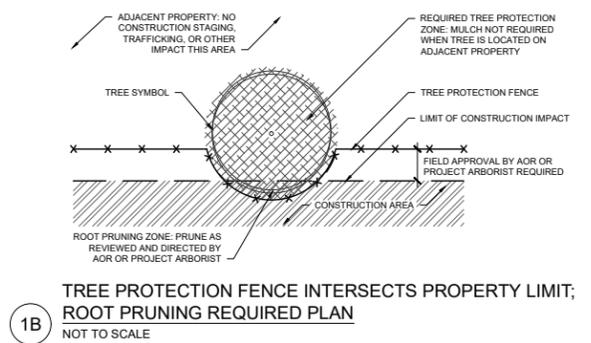
1A TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT; NO ROOT PRUNING REQUIRED PLAN
NOT TO SCALE



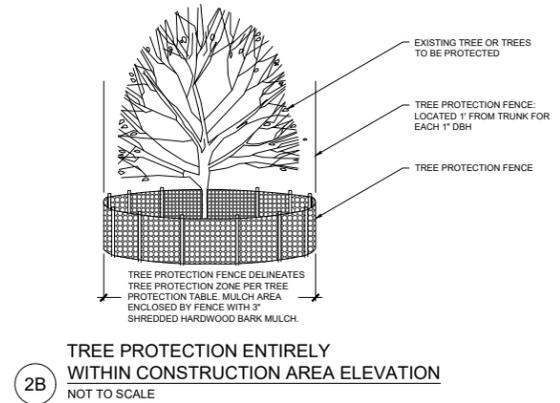
2A TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA PLAN
NOT TO SCALE



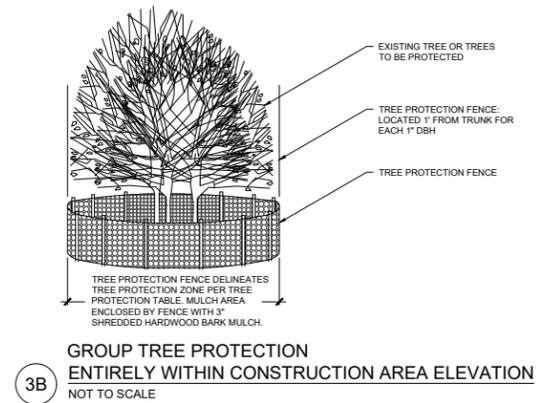
3A GROUP TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA PLAN
NOT TO SCALE



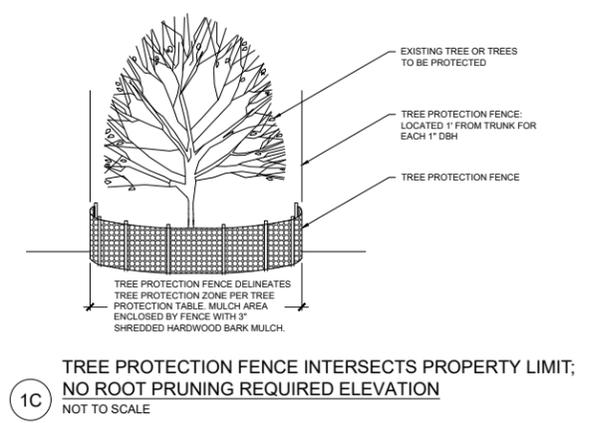
1B TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT; ROOT PRUNING REQUIRED PLAN
NOT TO SCALE



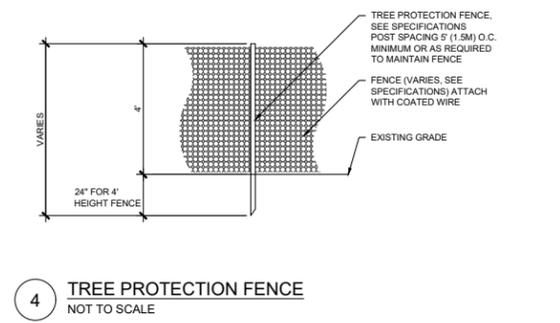
2B TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION
NOT TO SCALE



3B GROUP TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION
NOT TO SCALE



1C TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT; NO ROOT PRUNING REQUIRED ELEVATION
NOT TO SCALE



4 TREE PROTECTION FENCE
NOT TO SCALE

TREE PROTECTION	FLAG TAPE COLOR	RADIUS OF TREE PROTECTION FENCE FROM TRUNK	MULCH TREE PROTECTION ZONE
ADJACENT PROPERTY	NONE	NONE. TREE PROTECTED BY TREE PROTECTION FENCE AT PROJECT LIMITS	NO
TREE WITH TREE PROTECTION FENCE	GREEN	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH. NOT IN CONTACT WITH THE TRUNK
TREE WITH TREE PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH. NOT IN CONTACT WITH THE TRUNK
TREE TO BE RELOCATED	BLUE	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH. NOT IN CONTACT WITH THE TRUNK
TREE TO BE REMOVED	RED	NONE. TREES MUST BE REMOVED PRIOR TO START OF CONSTRUCTION	NO

5 TREE PROTECTION TABLE AND NOTES
NOT TO SCALE

*DBH - DIAMETER AT BREAST HEIGHT MEASURED AT 4.5' FROM BASE OF TREE.



**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

TREE PRESERVATION PLAN - SCHEDULE



MAY 1, 2023

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EXISTING TREES TO BE REMOVED							
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION	REPLACEMENT SPECIES GROUP	REQUIRED CALIPER INCHES NEEDED TO BE REPLACED
A	#1	3" cal	Cornus mas	Cornelian Cherry Dogwood	Good	A	3.75
	#2	6" cal	Quercus rubra	Northern Red Oak	Good	A	7.5
	#3	6" cal	Quercus rubra	Northern Red Oak	Good	A	7.5
	#4	6" cal	Quercus rubra	Northern Red Oak	Good	A	7.5
	#5	6" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	4.5
	#6	6" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	4.5
	#7	5" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	3.75
	#8	6" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	4.5
	#9	6" cal	Quercus rubra	Northern Red Oak	Good	A	7.5
	#10	6" cal	Quercus rubra	Northern Red Oak	Good	A	7.5
	#11	5" cal	Quercus rubra	Northern Red Oak	Good	A	6.25
	#12	10" cal	Picea sp.	Spruce	Good	B	7.5
	#13	11" cal	Morus sp.	Mulberry	Poor	D	0
	#14	11" cal	Ulmus sp.	Elm Hybrid	Fair	B	8.25
	#15	9" cal	Morus sp.	Mulberry	Poor	D	0
	#16	5" cal	Rhamnus sp.	Buckhorn	Poor	D	0
	#17	12" cal	Ulmus sp.	Elm Hybrid	Fair	B	9
	#18	8" cal	Ulmus sp.	Elm Hybrid	Fair	B	6
	#19	10" cal	Rhamnus sp.	Buckhorn	Poor	D	0
B	#20	5" cal	Acer rubrum hybrid	Red Maple Hybrid	Good	B	3.75
	#21	5" cal	Acer rubrum hybrid	Red Maple Hybrid	Good	B	3.75
	#22	4" cal	Abies concolor	Spruce	Good	B	3
	#23	14" cal	Quercus sp.	Oak	Good	A	17.5
	#24	5" cal	Acer rubrum hybrid	Red Maple Hybrid	Good	B	3.75
	#25	18" cal	Pinus nigra	Austrian Pine	Fair	C	9
	#26	8" cal	Pinus sp. (not strobus)	Pine	Good	C	4
	#27	15" cal	Quercus rubra	Northern Red Oak	Good	A	18.75
	#28	6" cal	Pinus sp. (not strobus)	Pine	Fair	C	3
	#29	5" cal	Acer rubrum hybrid	Red Maple Hybrid	Good	B	3.75
	#30	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75
	#31	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75
	#32	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75
	#33	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75
	#34	4" cal	Cercis canadensis	Eastern Redbud	Good	A	5
	#35	10" cal	Ulmus sp.	Hybrid Elm	Good	B	7.5
	#36		Species unknown	Species unknown	Poor - unsafe conditions		0
	#37		Species unknown	Species unknown	Poor - unsafe conditions		0
	#38		Species unknown	Species unknown	Poor - unsafe conditions		0
SHEET B REQUIRED CALIPER INCHES TO REPLACE:							97.75
C	#39		Species unknown	Species unknown	Poor - unsafe conditions		0
	#40		Species unknown	Species unknown	Poor - unsafe conditions		0
	#41		Species unknown	Species unknown	Poor - unsafe conditions		0
	#42		Species unknown	Species unknown	Poor - unsafe conditions		0
	#43		Species unknown	Species unknown	Poor - unsafe conditions		0
	#44	6" cal	Ulmus sp.	Elm Hybrid	Good	B	4.5
	#45	8" cal	Ulmus sp.	Elm Hybrid	Good	B	6
	#46	6" cal	Ulmus sp.	Elm Hybrid	Good	B	4.5
	#47	7" cal	Ulmus sp.	Elm Hybrid	Good	B	5.25
	#48	6" cal	Ulmus sp.	Elm Hybrid	Good	B	4.5
	#49	6" cal	Ulmus sp.	Elm Hybrid	Good	B	4.5
	#50	7" cal	Ulmus sp.	Elm Hybrid	Good	B	5.25
	#51	6" cal	Ulmus sp.	Elm Hybrid	Good	B	4.5
	#52	7" cal	Ulmus sp.	Elm Hybrid	Good	B	5.25
	#53	31" cal	Ulmus sp.	Elm	Good	Parkway Tree	38.75
	#54	28" cal	Ulmus sp.	Elm	Good	Parkway Tree	35
	#55	16" cal	Acer platanoides	Norway Maple	Good	C	8
	#56	26" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	19.5
	#57	34" cal	Ulmus sp.	Elm	Fair	Parkway Tree	42.5
	#58	41" cal	Salix sp.	Willow	Fair	C	20.5
	#59	10" cal	Acer platanoides	Norway Maple	Good	C	5
	#60	31" cal	Ulmus sp.	Elm	Fair	Parkway Tree	38.75
	#61	7" cal	Malus	Crabapple	Fair	A	8.75
	#62	7" cal	Crataegus sp.	Hawthorn	Fair	A	8.75
	#63	7" cal	Crataegus sp.	Hawthorn	Fair	A	8.75
	#64	7" cal	Crataegus sp.	Hawthorn	Fair	A	8.75
	#65	4" cal	Malus	Crabapple	Fair	A	5
	#66	4" cal	Malus	Crabapple	Fair	A	5
	#67	9" cal	Gymnocladus dioica	Kentucky Coffeetree	Good	Parkway Tree	11.25
SHEET C REQUIRED CALIPER INCHES TO REPLACE:							388.5
D	#68	16" cal	Pinus nigra	Austrian Pine	Good	C	8
	#69	14" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	10.5
	#70	2" cal	Ametanchier	Servicetree	Good	A	2.5
	#71	6" cal	Gleditsia sp.	Thornless Honey Locust	Poor	B	4.5
	#72	4" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3
	#73	7" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	5.25
	#74	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#75	10" cal	Ulmus sp.	Hybrid Elm	Good	B	7.5
	#76	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#77	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#78	8" cal	Quercus bicolor	Swamp White Oak	Good	A	7.5
	#79	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#80	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#81	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#82	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#83	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#84	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#85	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#86	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#87	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#88	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#89	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#90	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#91	3" cal	Crataegus sp.	Hawthorn	Good	A	3.75
	#92	9" cal	Ulmus sp.	Elm Hybrid	Good	B	6.75
	#93	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#94	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#95	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75
	#96	6" cal	Quercus bicolor	Swamp White Oak	Good	A	7.5
#97	6" cal	Quercus rubra	Northern Red Oak	Good	A	7.5	
#98	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#99	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#100	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#101	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#102	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#103	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#104	3" cal	Thuja sp.	Arborvitae	Fair	A	3.75	
#105	6" cal	Gleditsia sp.	Thornless Honey Locust	Good	B	4.5	
#106	7" cal	Ulmus sp.	Elm Hybrid	Good	B	5.25	
#107	5" cal	Abies concolor	White Fir	Good	B	3.75	
#108	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75	
#109	3" cal	Picea abies	Norway Spruce	Good	B	2.25	
#110	5" cal	Acer rubrum sp.	Red Maple Hybrid	Good	B	3.75	
SHEET D REQUIRED CALIPER INCHES TO REPLACE:							191.25
E	#111	6" cal	Gymnocladus dioica	Kentucky Coffeetree	Good	Parkway Tree	7.5
	#112	25" cal	Ulmus sp.	Elm	Good	Parkway Tree	31.25
	#113	25" cal	Ulmus sp.	Elm	Good	Parkway Tree	31.25
	#114	6" cal	Malus	Crabapple	Fair	A	7.5
	#115	9" cal	Acer platanoides	Norway Maple	Good	Parkway Tree	11.25
	#116	10" cal	Acer platanoides	Norway Maple	Good	Parkway Tree	12.5
	#117	11" cal	Acer platanoides	Norway Maple	Good	Parkway Tree	13.75
	#118	29" cal	Gleditsia sp.	Thornless Honey Locust	Fair	B	21.75
	#119	23" cal	Tilia sp.	Linden	Fair	A	28.75
	#120	24" cal	Tilia sp.	Linden	Good	A	30
	#121	16" cal	Tilia sp.	Linden	Good	A	20
SHEET E REQUIRED CALIPER INCHES TO REPLACE:							215.5
SITE WIDE TOTAL REQUIRED CALIPER INCHES TO REPLACE:							908.5

SITE WIDE TOTAL PROPOSED CALIPER INCHES (refer to planting plan and schedule):	794
SITE WIDE TOTAL REQUIRED CALIPER INCHES TO REPLACE (refer to tree demo plan and schedule):	908.5
DIFFERENCE:	(-115)

TREE MITIGATION FEE FORMULA (\$150 per caliper inch that is not replaced): 115" x \$150 = \$17,250	
ESTIMATED DOLLAR AMOUNT TO PAY INTO CITY OF EVANSTON TREE MITIGATION FUND:	\$17,250

STATEMENT: Per Evanston, IL Code of Ordinances, Title 7 – Public Ways/ Chapter 8 - Trees and Shrubs, tree species are defined into (4) groups. Groups A, B, C, and D. These groups are based on ratings provided in the trees species standards for species characteristics including environmental adaptability, biological traits, longevity, maintenance needs, and landscape value.

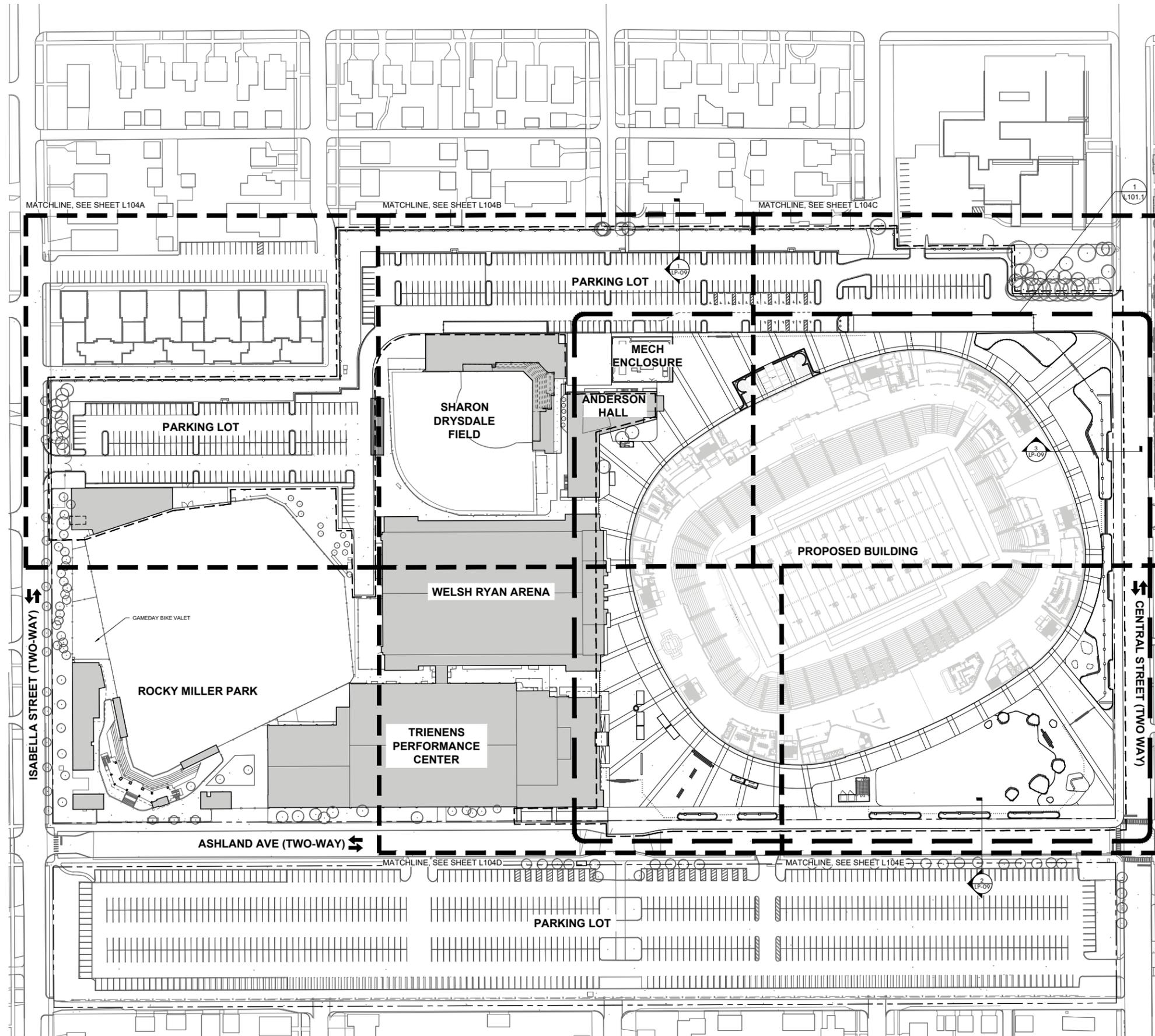
Group A consists of the most desirable species. The replacement rate for group A is 125% for every caliper inch removed. Group C consists of the least desirable species. The replacement rate for group C is 50% for every caliper inch removed. Certain factors including the health and safety of trees also determine the replacement rate.

site has identified all of the tree species to be removed, catalogued them into this spreadsheet, and calculated the replacement rate. In total, site has calculated 908.5 caliper inches that need to be replaced. site is strategically proposing a large amount of trees with large caliper sizes to meet this replacement. In total, there are 794 caliper inches proposed – a difference of (114) caliper inches. To meet city code, it is estimated that the owner shall pay approximately \$17,250 (\$150 for every caliper not replaced)*.

*NOTE: City of Evanston shall determine final dollar amount based on their assessment.



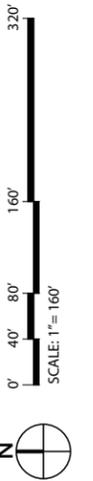
**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

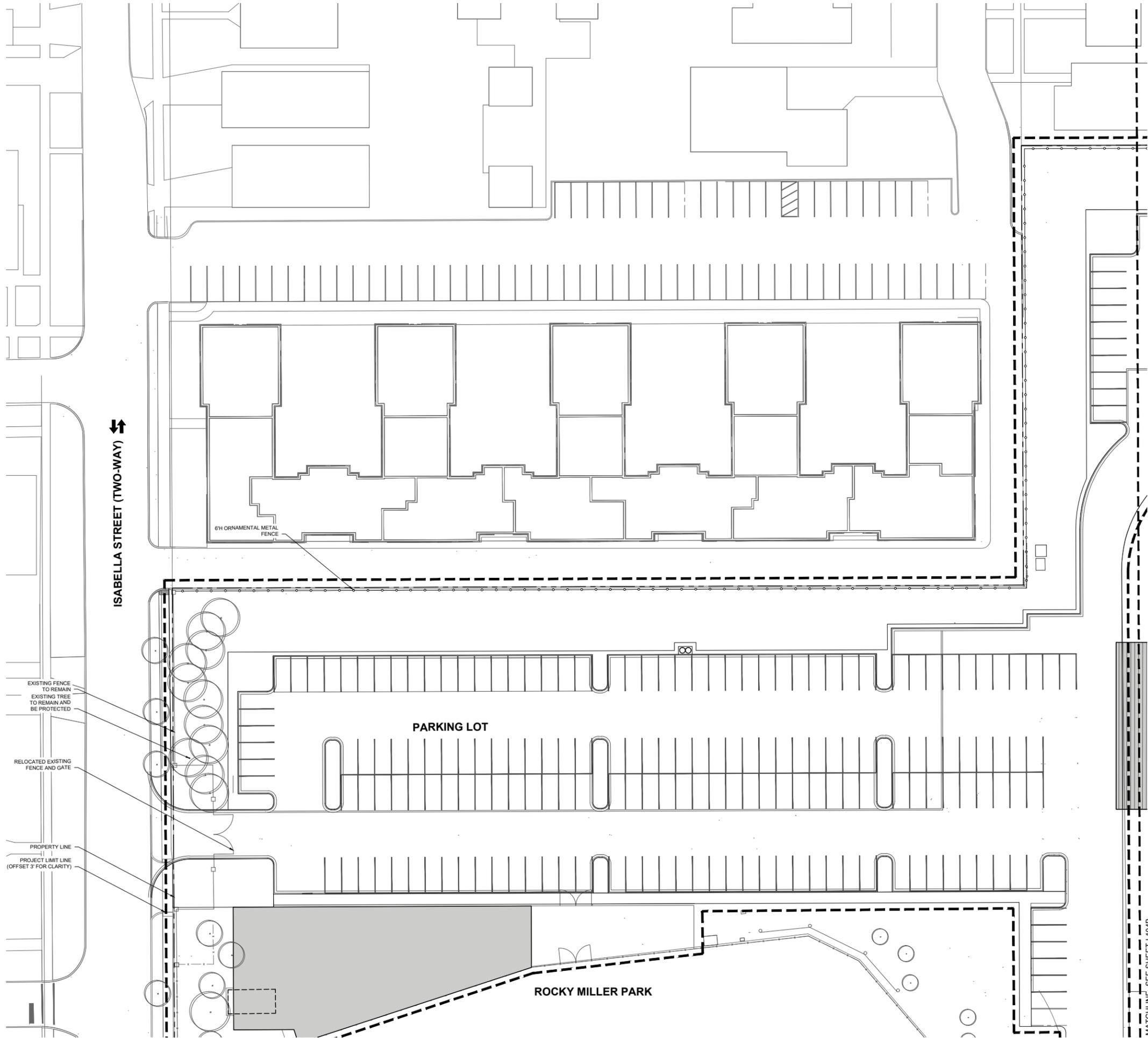


LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- ⊕⊕⊕ 4.5H ORNAMENTAL WELDED WIRE FENCE
- ⊕⊕⊕ 6H ORNAMENTAL WELDED WIRE FENCE
- ⊕⊕⊕ 6H ORNAMENTAL METAL FENCE
- ⋯⋯⋯ TEMPORARY FENCE, BY OTHERS

FENCES & WALLS





LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- ⊕⊕⊕⊕ 4.5H ORNAMENTAL WELDED WIRE FENCE
- ⊕⊕⊕⊕ 6H ORNAMENTAL WELDED WIRE FENCE
- ⊕⊕⊕⊕ 6H ORNAMENTAL METAL FENCE
- ⋯ TEMPORARY FENCE, BY OTHERS

EXISTING FENCE TO REMAIN
EXISTING TREE TO REMAIN AND BE PROTECTED

RELOCATED EXISTING FENCE AND GATE

PROPERTY LINE
PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)

ISABELLA STREET (TWO-WAY) ↔

6H ORNAMENTAL METAL FENCE

PARKING LOT

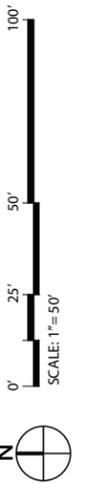
ROCKY MILLER PARK

MATCHLINE. SEE SHEET L104B



**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

FENCES & WALLS - ENLARGED



LP-29

MAY 1, 2023



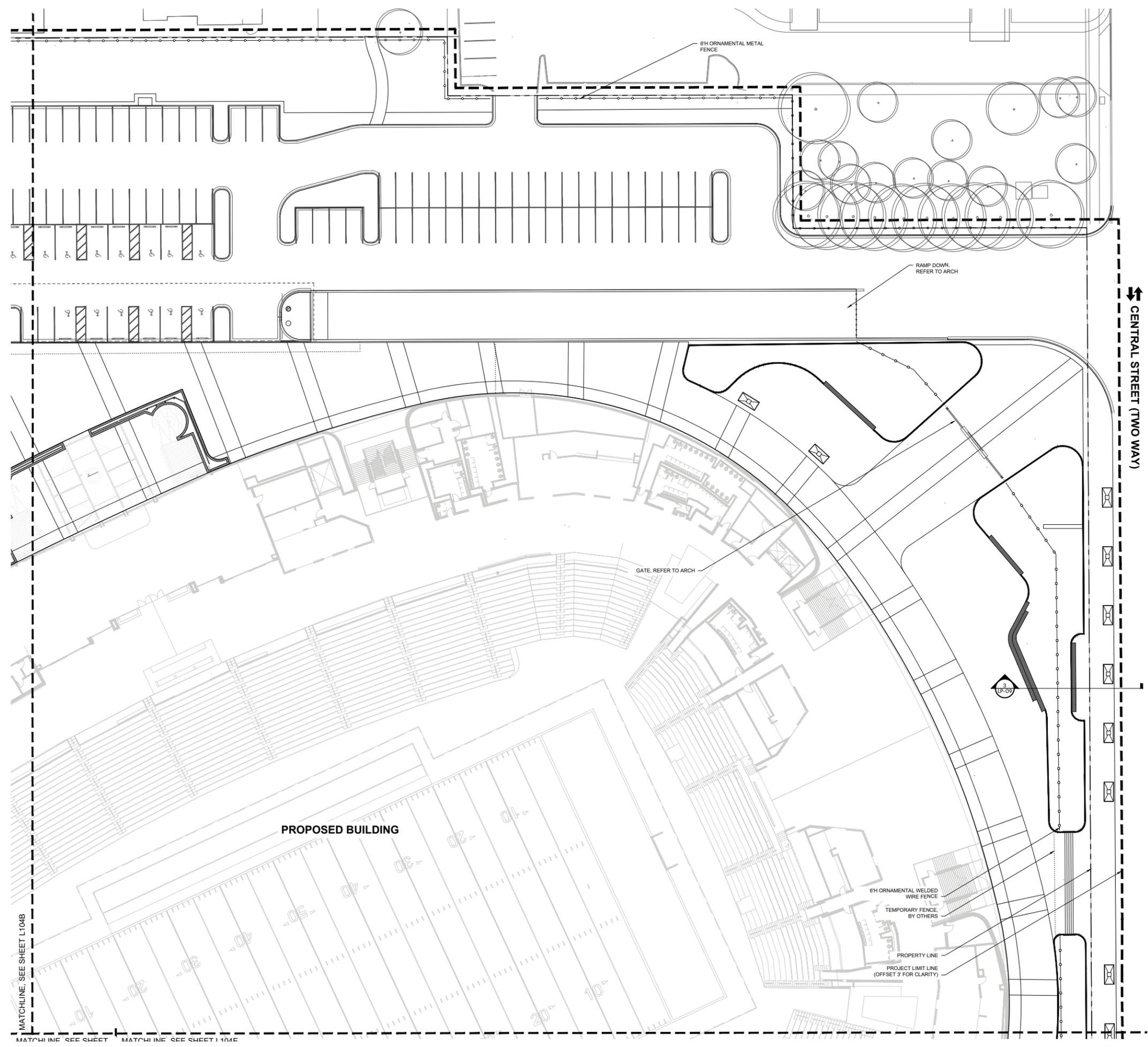
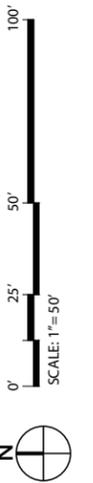
NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
 PLANNED DEVELOPMENT APPLICATION

FENCES & WALLS - ENLARGED



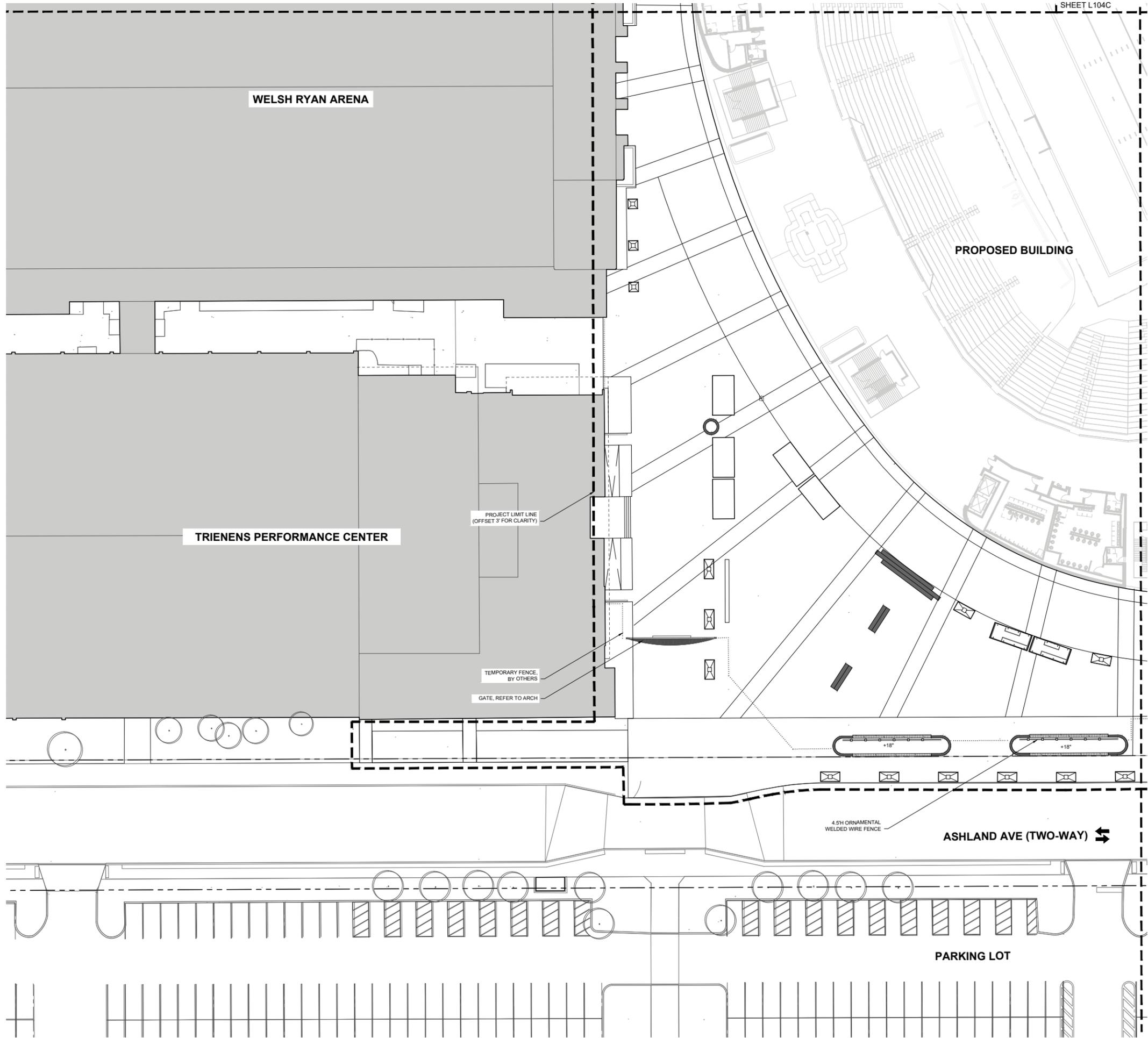
LP-31

MAY 1, 2023



LEGEND

	PROPERTY LINE
	PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
	4.5" ORNAMENTAL WELDED WIRE FENCE
	6" ORNAMENTAL WELDED WIRE FENCE
	6" ORNAMENTAL METAL FENCE
	TEMPORARY FENCE, BY OTHERS



SHEET L104C

LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- ⊕⊕⊕⊕ 4.5H ORNAMENTAL WELDED WIRE FENCE
- ⊕⊕⊕⊕ 6H ORNAMENTAL WELDED WIRE FENCE
- ⊕⊕⊕⊕ 6H ORNAMENTAL METAL FENCE
- ⋯⋯⋯ TEMPORARY FENCE, BY OTHERS

WELSH RYAN ARENA

TRIENENS PERFORMANCE CENTER

PROPOSED BUILDING

PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)

TEMPORARY FENCE, BY OTHERS

GATE, REFER TO ARCH

4.5H ORNAMENTAL WELDED WIRE FENCE

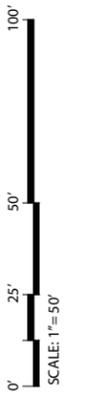
ASHLAND AVE (TWO-WAY) ↕

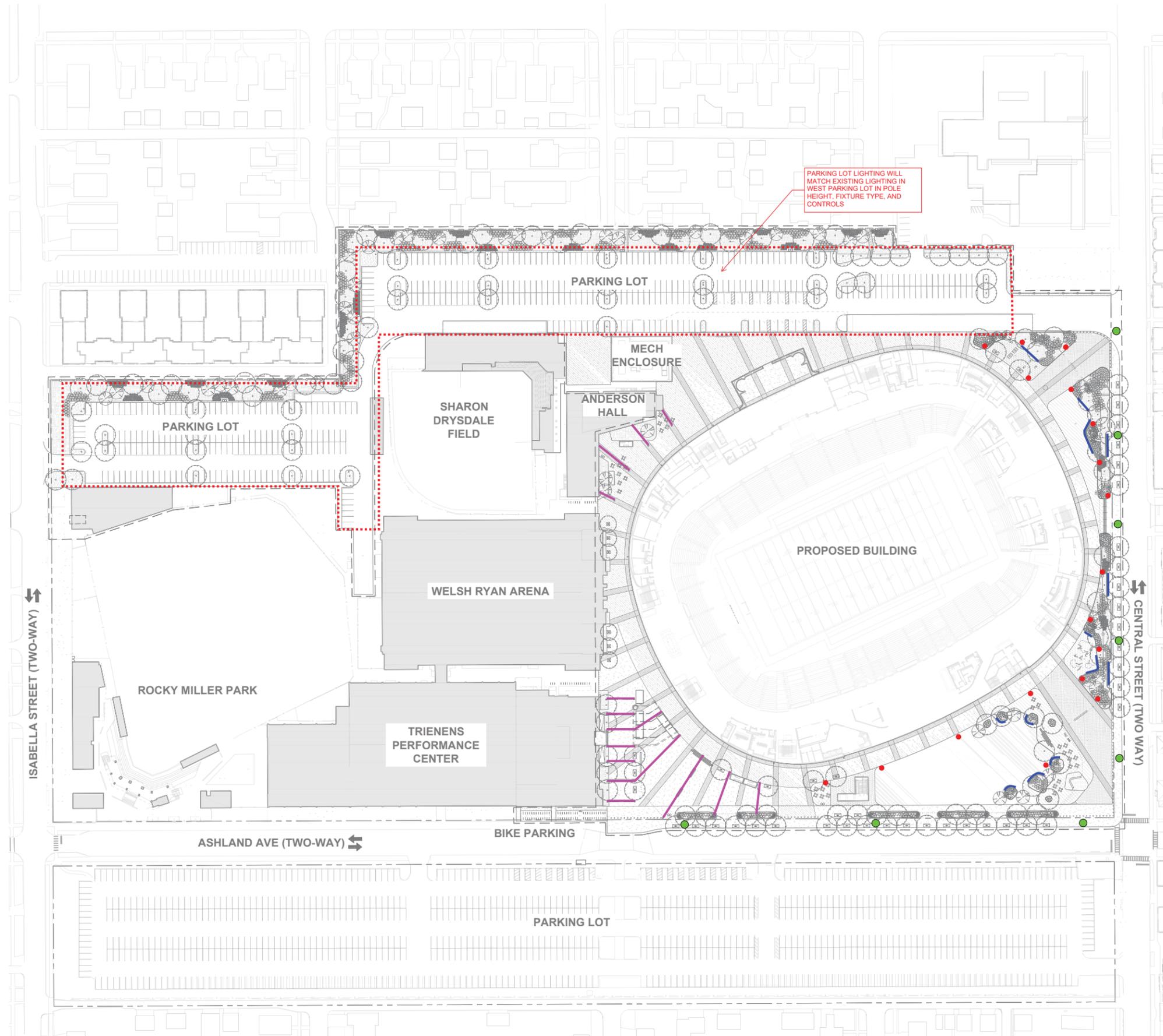
PARKING LOT



**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

FENCES & WALLS - ENLARGED





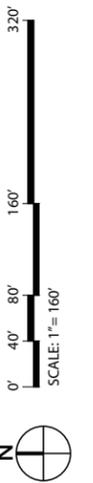
LEGEND

- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- PEDESTRIAN LIGHT POLE
- CATENARY LIGHTS
- INTEGRAL LINEAR BENCH LIGHTING
- COE LIGHT FIXTURES TO BE REMOVED/REPLACED IN KIND

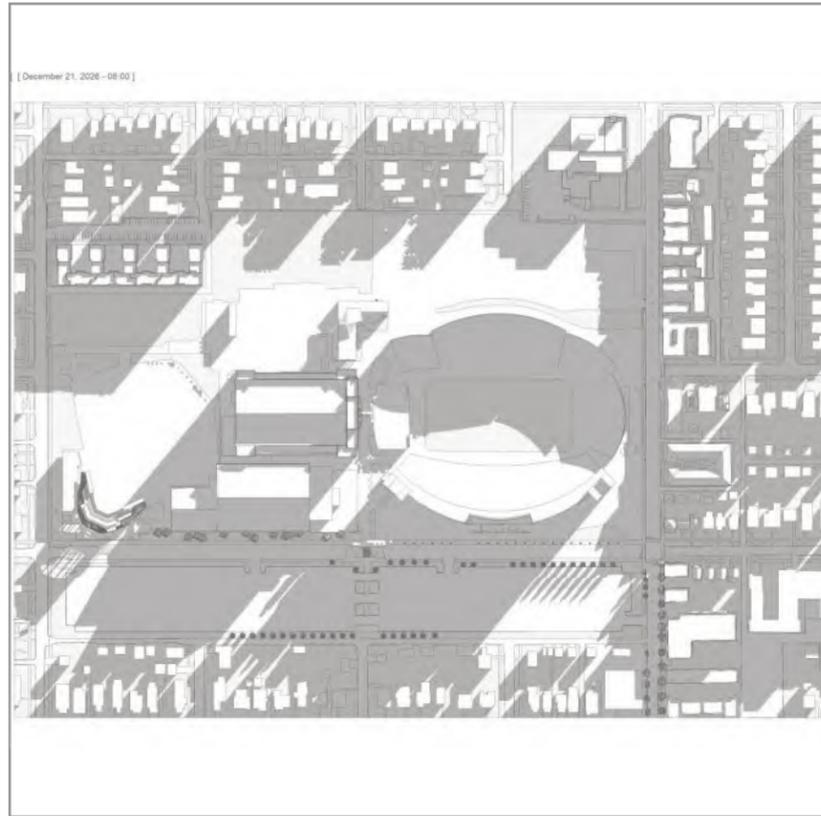


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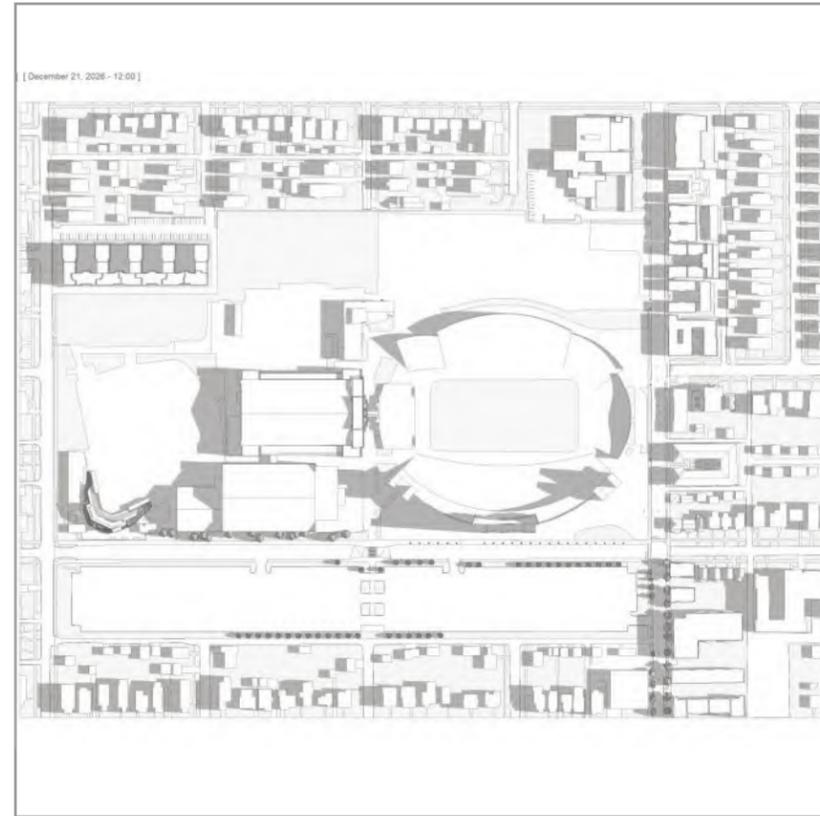
SITE LIGHTING PLAN



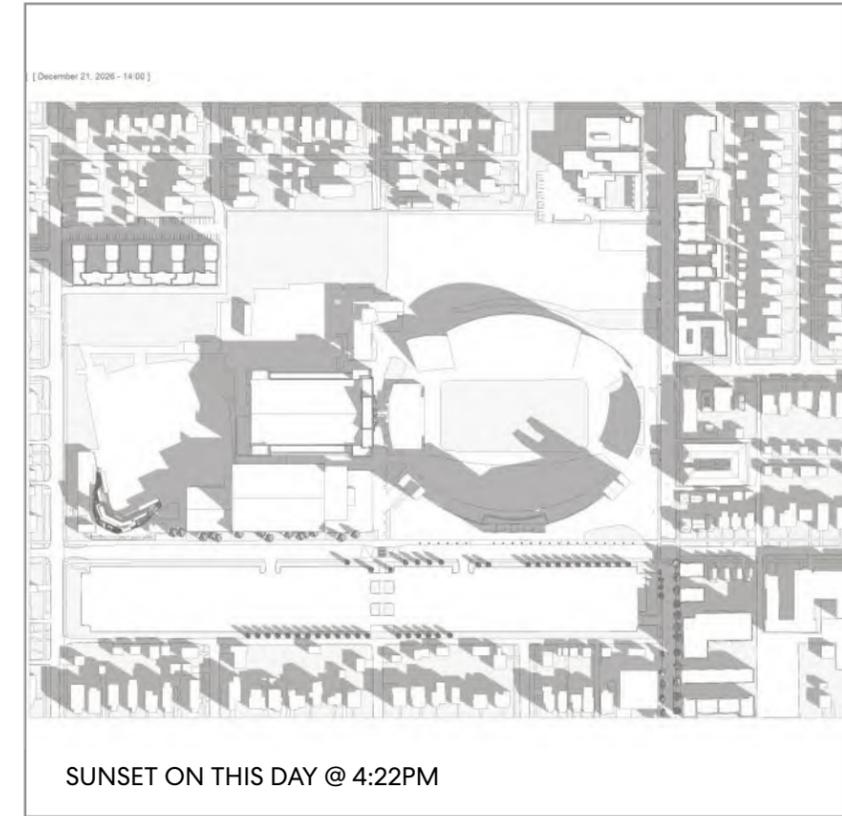
EXISTING STADIUM - 8 AM



EXISTING STADIUM - 12 PM



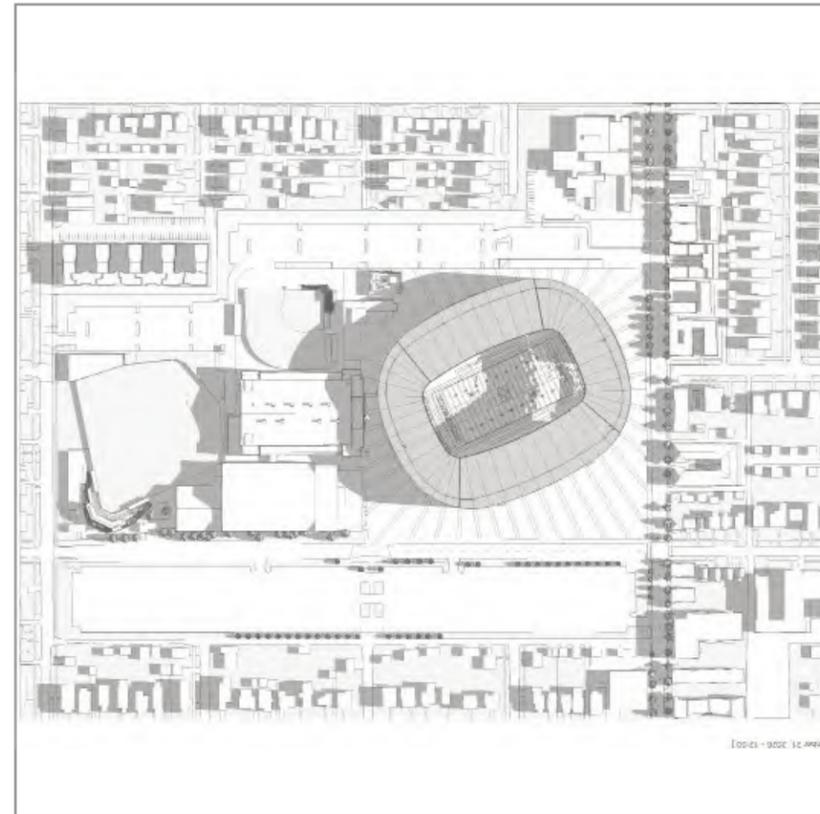
EXISTING STADIUM - 2 PM



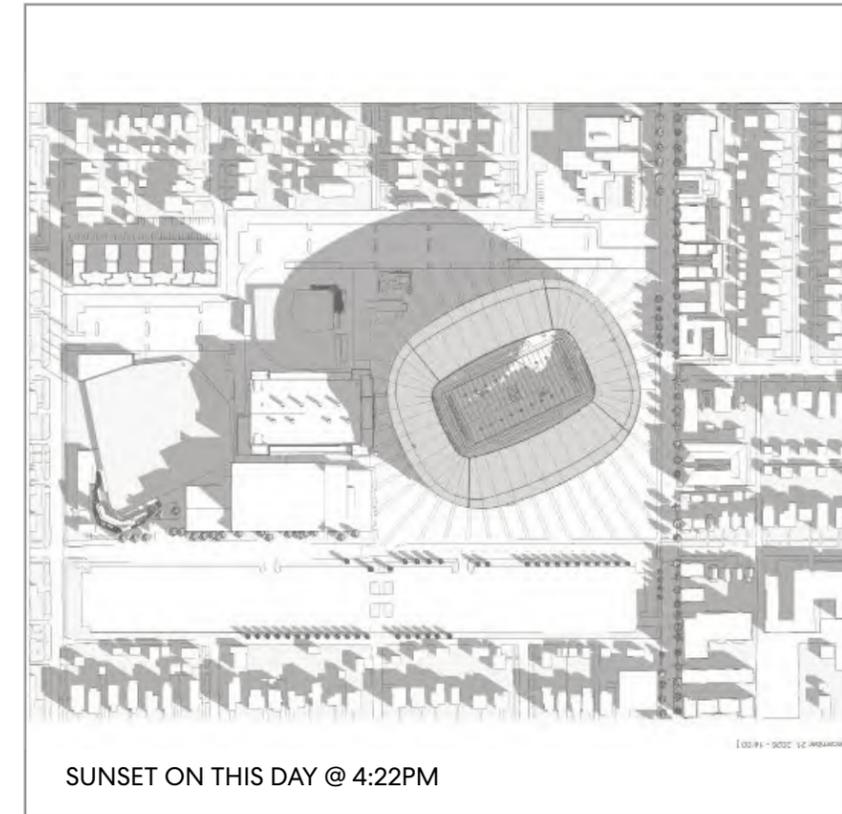
PROPOSED STADIUM - 8 AM



PROPOSED STADIUM - 12 PM



PROPOSED STADIUM - 2 PM



ACCORDING TO THE UNIVERSITY OF ILLINOIS "ILLINOIS STATE CLIMATOLOGIST" WEBSITE, CHICAGO EXPERIENCES AN AVERAGE OF 84 CLEAR DAYS, 105 PARTLY CLOUDY DAYS, AND 176 CLOUDY DAYS ANNUALLY.



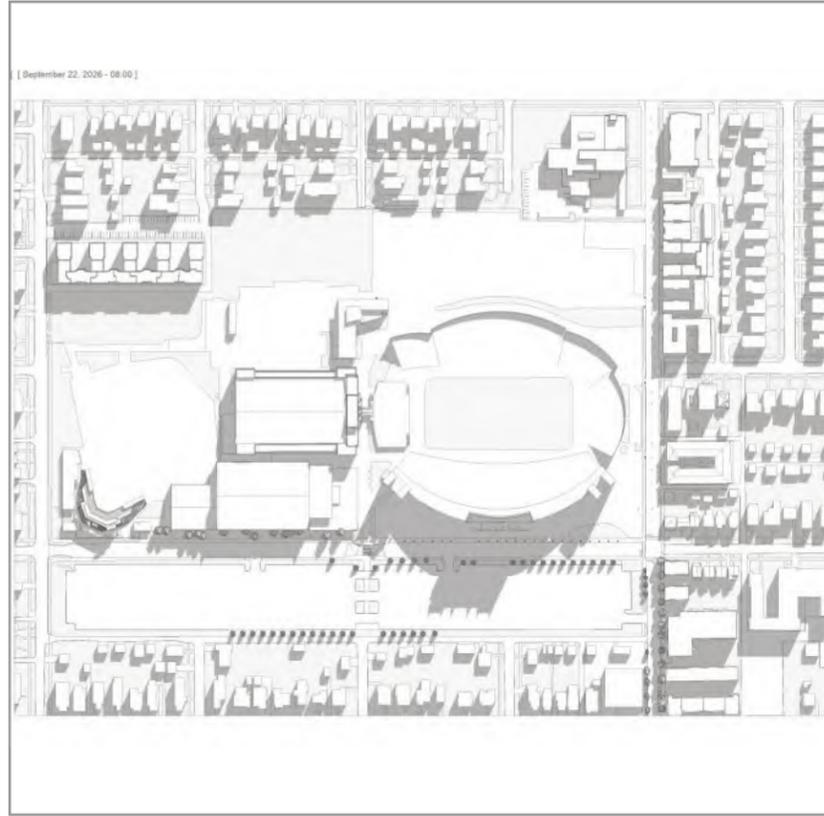
NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION

SHADOW ANALYSIS - WINTER SOLSTICE
DEC 21
NOT TO SCALE



HNTB
Perkins & Will
MAY 1, 2023

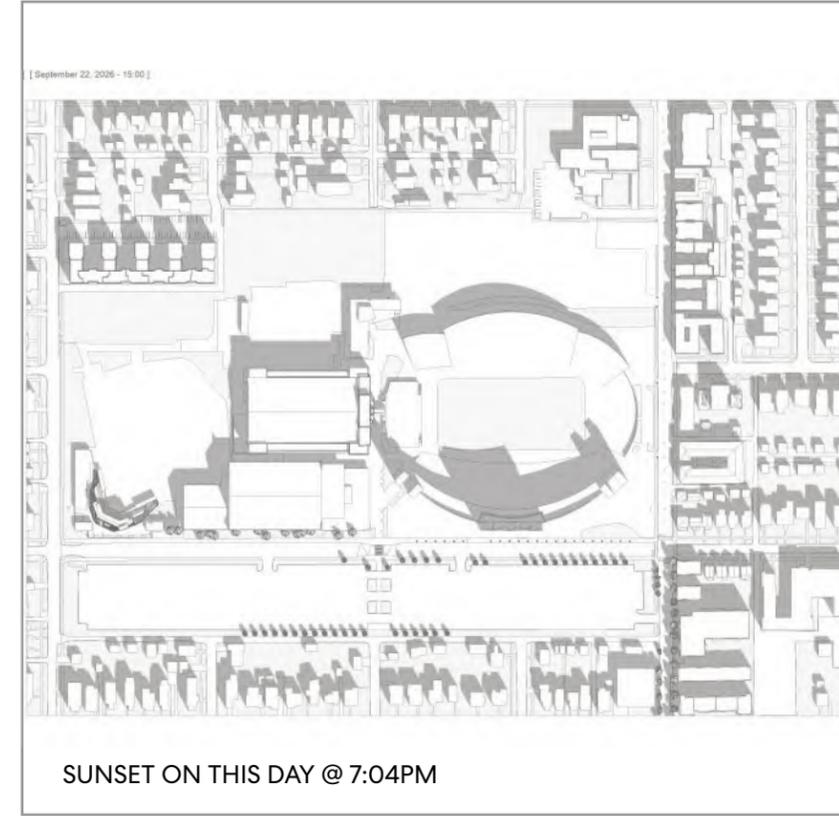
EXISTING STADIUM - 8 AM



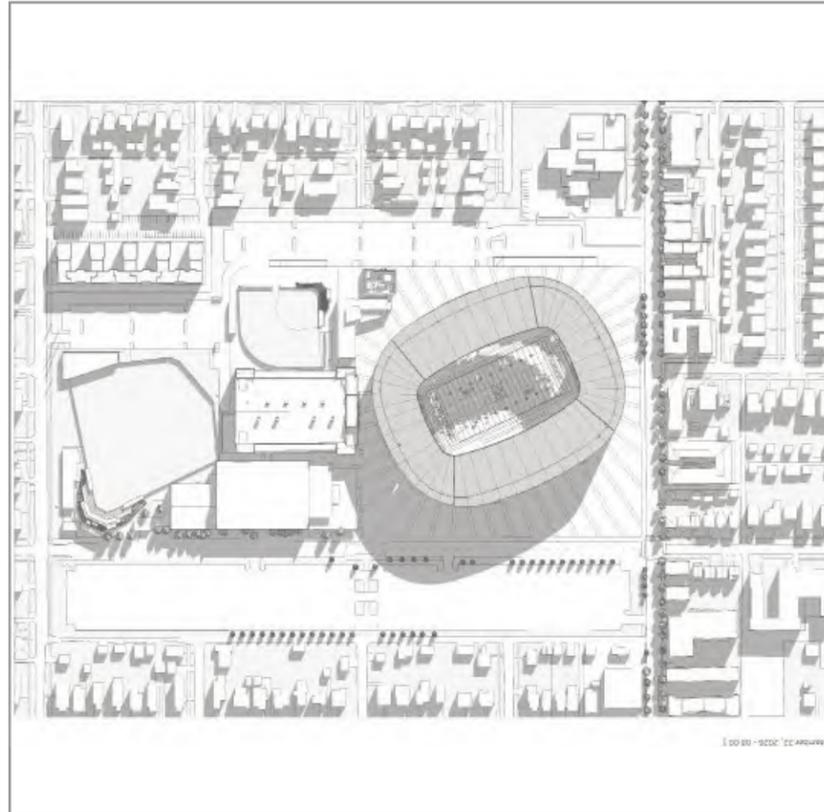
EXISTING STADIUM - 12 PM



EXISTING STADIUM - 3 PM



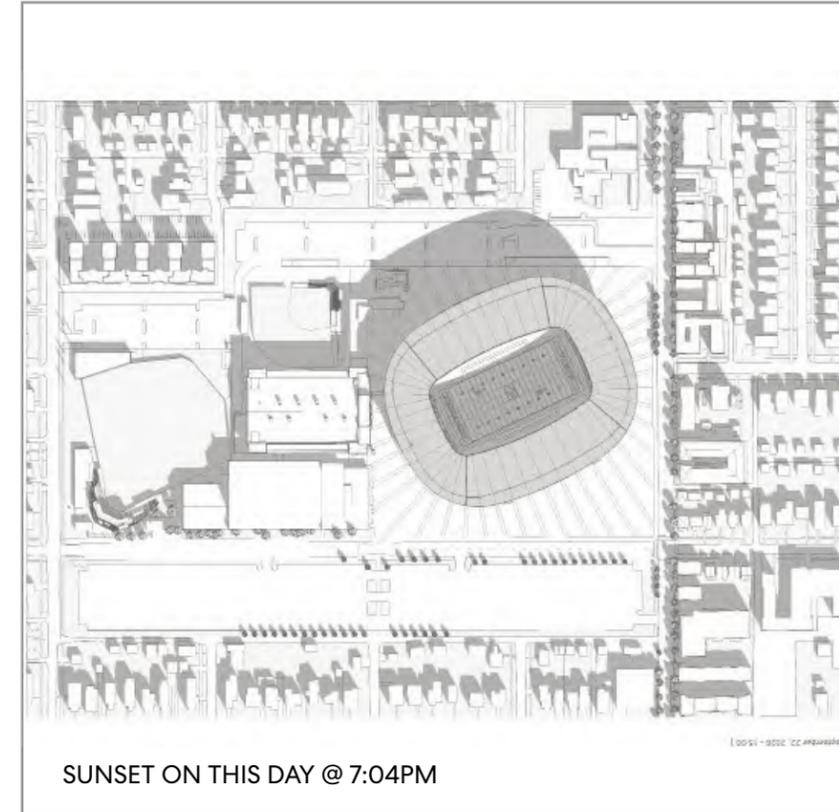
PROPOSED STADIUM - 8 AM



PROPOSED STADIUM - 12 PM



PROPOSED STADIUM - 3 PM



ACCORDING TO THE UNIVERSITY OF ILLINOIS "ILLINOIS STATE CLIMATOLOGIST" WEBSITE, CHICAGO EXPERIENCES AN AVERAGE OF 84 CLEAR DAYS, 105 PARTLY CLOUDY DAYS, AND 176 CLOUDY DAYS ANNUALLY.



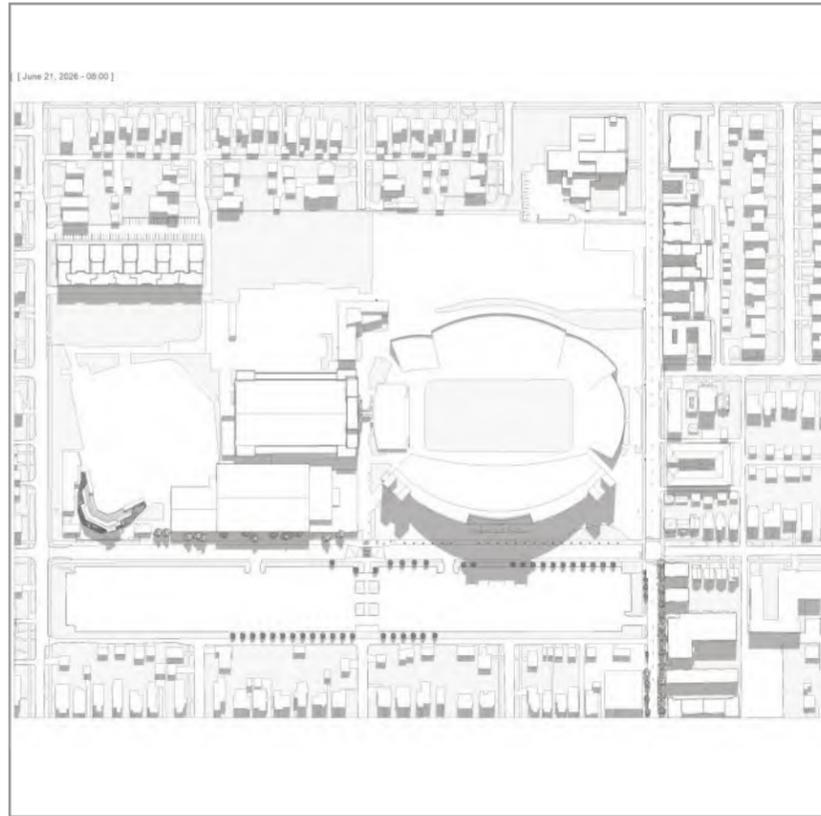
NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION

SHADOW ANALYSIS - EQUINOX
MAR 21 / SEPT 21
NOT TO SCALE

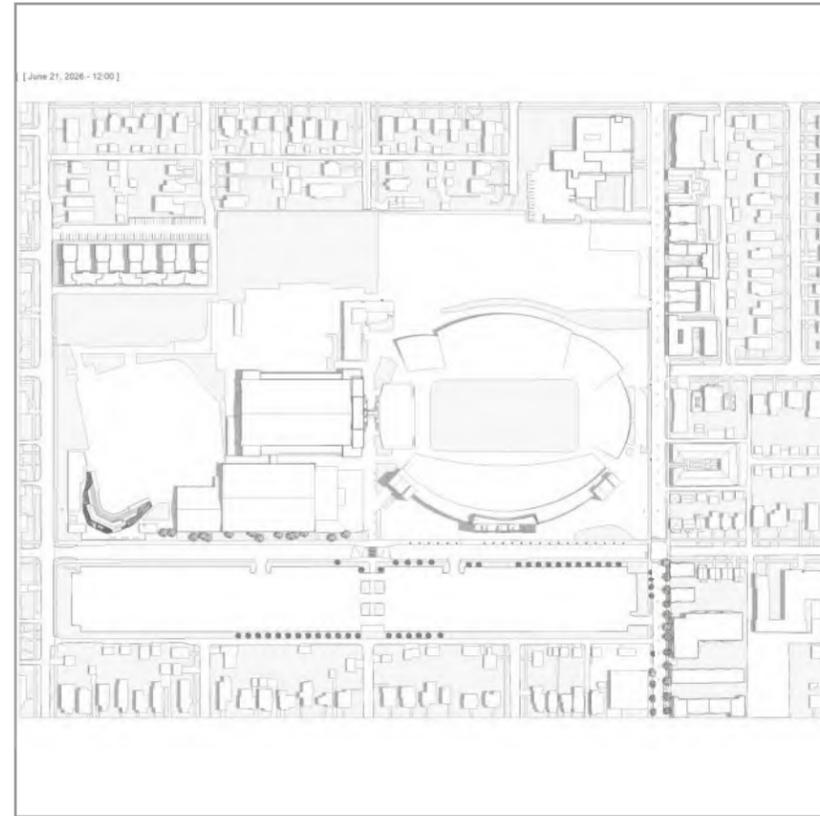


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MAY 1, 2023

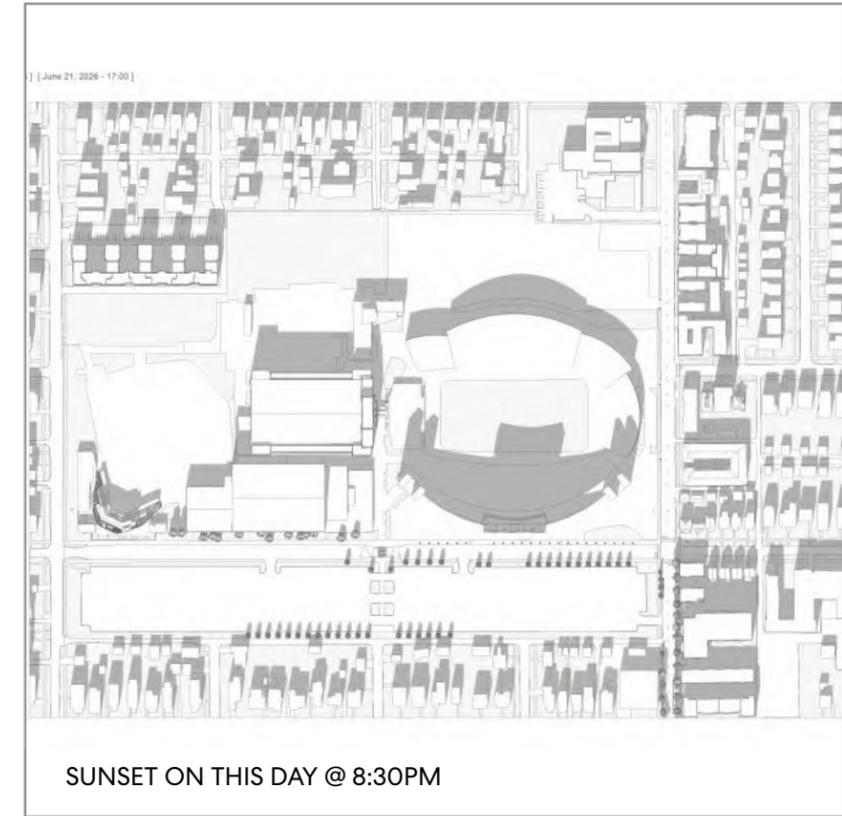
EXISTING STADIUM - 8 AM



EXISTING STADIUM - 12 PM



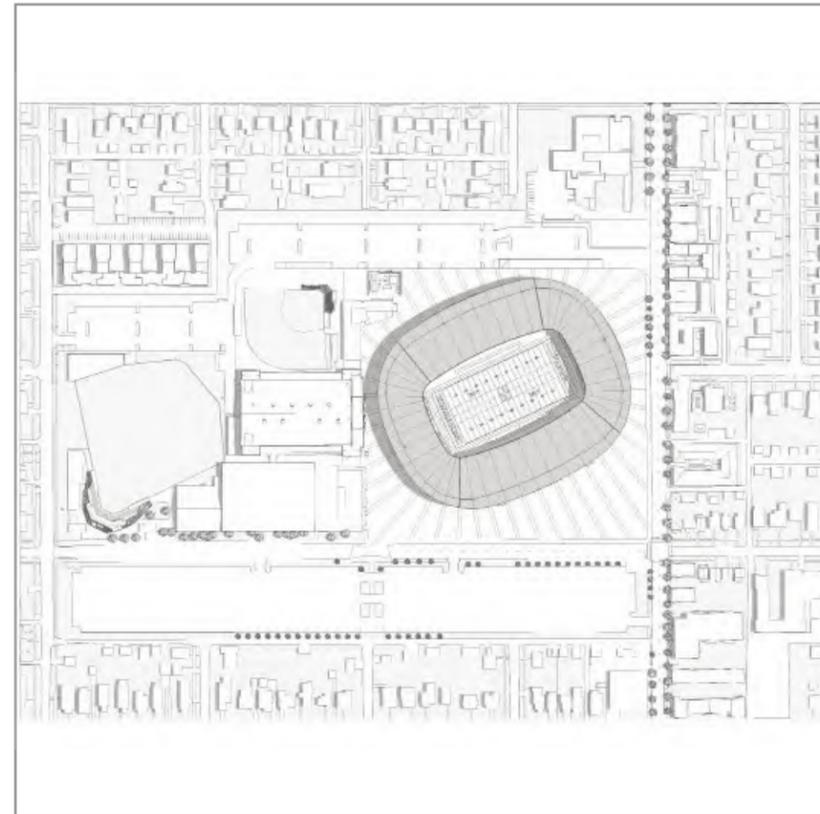
EXISTING STADIUM - 5 PM



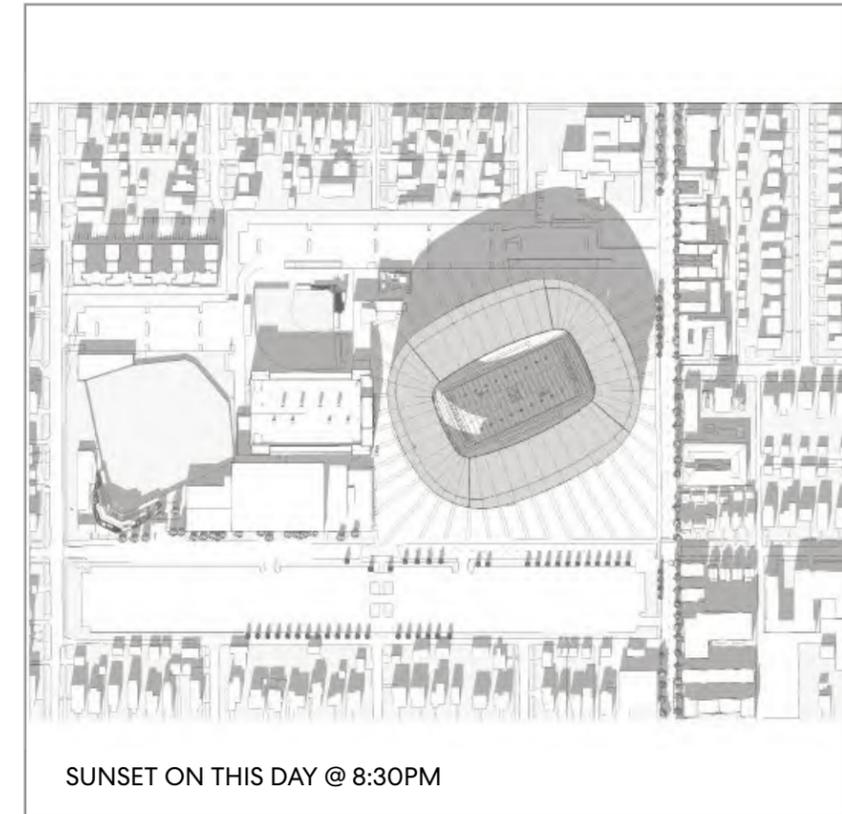
PROPOSED STADIUM - 8 AM



PROPOSED STADIUM - 12 PM



PROPOSED STADIUM - 5 PM



ACCORDING TO THE UNIVERSITY OF ILLINOIS "ILLINOIS STATE CLIMATOLOGIST" WEBSITE, CHICAGO EXPERIENCES AN AVERAGE OF 84 CLEAR DAYS, 105 PARTLY CLOUDY DAYS, AND 176 CLOUDY DAYS ANNUALLY.



NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION

SHADOW ANALYSIS - SUMMER SOLSTICE
JUNE 21
NOT TO SCALE

NOT TO SCALE



HNTB
Perkins&Will
MAY 1, 2023