Planning & Development Division
Planning & Economic Development Department

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planning@duluthmn.gov

File Number	PLSUP-2412-0030	**Contact**	Jason Mozol, jmozol@duluthmn.gov	
Type	Special Use Permit- Restaurant	**Planning Commission Date**		May 13, 2025
Deadline for Action	**Application Date**	April 16, 2025	**60 Days**	June 15, 2025
	Date Extension Letter Mailed	April 16, 2025	**120 Days**	August 14, 2025
Location of Subject	421 Anderson Rd			
Applicant	7 Brew	**Contact**	Kristi Giltner	
Agent	Kimley Horn	**Contact**	Connor McCoy	
Legal Description	010-2589-00020			
Site Visit Date	April 21, 2025	**Sign Notice Date**	April 25, 2025	
Neighbor Letter Date	April 15, 2025	**Number of Letters Sent**	40	

Proposal
Applicant proposes to construct a drive-through coffee shop with combined structure footprints of 780 sq ft.

Recommended Action: Approve with conditions.

	Current Zoning	Existing Land Use	Future Land Use Map Designation
Subject	MU-N	Undeveloped	Neighborhood Mixed Use
North	MU-C	Hotel/Clinic/Bank	Neighborhood Mixed Use/ Large Scale Commercial
South	R-1	Residential	Traditional Neighborhood/ Open Space
East	MU-N	Residential	Neighborhood Mixed Use
West	MU-N	Proposed Auto Service	Neighborhood Mixed Use

Summary of Code Requirements:

50-37.10 – Special Use Permits: Planning Commission shall approve the application or approve it with modifications, if it is determined that the application meets the following criteria:

1. The application is consistent with the Comprehensive Land Use Plan;
2. The application complies with all applicable provisions … including any use-specific standards …, and is consistent with any approved district plan for the area.
3. The Commission may deny any application that would result in a random pattern of development with little contiguity to existing or programmed development or would cause anticipated negative fiscal or environmental impacts.

50-20.3.R- Use Specific Standards for Restaurants in MU-N:

1. Restaurant uses may not exceed 5,000 sq ft in gross floor area.
2. Drive-through lanes shall allow for stacking space for 5 cars.
3. Speaker boxes and drive-through windows must be 50’ from residential property lines.
4. Drive-throughs must meet applicable operating hours.

5. Glare and noise from cars in the drive-through lane and stacking space shall be shielded from adjacent residential properties by screening, fencing, and/or a dense urban screen.
6. Restaurants are limited to one drive through lane and one speaker box.

Comprehensive Plan Governing Principle and/or Policies and Current History (if applicable):
Principle #8- Encourage mix of activities, uses, and densities. This development brings a commercial use to an area that is transitional between large scale retailers and residential neighborhoods.

Future Land Use: Neighborhood Mixed Use – A transitional use between more intensive commercial uses and purely residential neighborhoods. Includes conversions of houses to office or live-work spaces. May include limited commercial-only space oriented to neighborhood or specialty retail markets.

History: This area was re-platted in 2018 for future mixed-use development. The first two parcels in this plat are currently under development for a carwash and a fast-food restaurant. A proposal to divide a section of this property into separate parcels is also on this agenda under application PLSUB-2501-0001.

Review and Discussion Items:
Staff finds:

1. Applicant proposes to open a drive-through coffee shop. The proposed coffee shop is classified by the UDC as a restaurant and the two proposed buildings will have a net building footprint of 780sq/ft.
2. UDC Sec. 50-20.3.R (Use-specific Standards).
    a. The proposed building footprint is below the 5,000 sq/ft maximum.
    b. Restaurant uses are permitted to have a drive-through in the MU-N district. This drive-through consists of a driving lane and a bypass lane with stacking space for greater than 5 cars.
    c. Ordering for this drive-through is done exclusively via an online platform and will not have an associated speaker box or menu board. Any future installation of menu boards or speaker boxes must comply with applicable standards in Sec 50-20.3.R.
    d. The drive through may operate from 6am to 10pm Monday-Friday and 7am to 10pm on Saturday and Sunday.
    e. Adjacent residential properties will be screened from glare and noise associated with drive-through traffic by existing and proposed vegetation and required fencing.
3. UDC Sec. 50-24 (Parking and loading). The site is proposed to contain 5 off-street parking spaces, one identified as ADA accessible. The project must provide two bike parking spaces that are proposed to be located to the rear of the building.
4. UDC Sec. 50-25 (Landscaping and Tree Preservation). Landscaping responsibilities are divided between the overall site developer (Jigsaw LLC) and the applicant (7 Brew). Previous development within the larger Jigsaw Subdivision has resulted in areas of non-compliant landscaping in the rear of the site and along the retaining wall in the front. Two separate landscape plans are attached that, in aggregate, meet minimum landscaping standards for street frontage landscaping, parking lot landscaping, buffering between land uses and tree preservation. The attached landscape plan proposed by Jigsaw LLC remedies the areas of non-compliance and Jigsaw LLC has provided financial security to the City to complete the work.
5. During a recent site visit, staff noted that the site has been poorly managed, (see attached photos), and resulted in trash blowing into the neighbor's yard and gaps where all native vegetation has been cleared. To adequately reduce negative impacts to neighboring properties, staff recommends that a 6' tall, opaque fence is built along the entrance from Anderson Rd and the rear of the property in addition to the proposed vegetative screening.
6. UDC Sec. 50-26 (Screening, Walls and Fences). Trash and recycling containers will be screened by proposed fencing. If any exterior mechanicals are added, these will need to be screened as well.
7. UDC Sec. 50-29 (Sustainability Standards) and UDC Sec. 50-30 (Building Design Standards). These sections do not apply because the gross floor area of the development does not exceed 10,000 sq/ft.
8. UDC Sec. 50-31 (Exterior Lighting). The applicant has submitted a photometric plan with light fixtures that are not fully code compliant. Lighting within the canopy exceeds the allowable maximum and the pole light fixtures do not comply with color temperature of color rending standards. A compliant photometric plan with light fixtures must be submitted to the Land Use Supervisor prior to building permit issuance.
9. As demonstrated in the governing principles above, this proposal is consistent with the goals of the comprehensive plan.

10. The proposed coffee shop will not result in a random pattern of development and negative fiscal or environmental impacts are mitigated.
11. Staff spoke with one neighbor on the phone that expressed concern regarding the project and how adequate screening will be provided.
12. No agency, or City comments were received.

Staff Recommendation:
Based on the above findings, Staff recommends that Planning Commission approve the Planning Review with the following conditions:

1. The project, as modified by the conditions summarized below, be limited, constructed, and maintained consistent with plans submitted with the application.
2. The drive-through may operate between the hours of 6am to 10pm Monday-Friday and 7am to 10pm on Saturday and Sunday.
3. In addition to proposed vegetative screening, a 6' tall, opaque fence must be constructed along the west side of the entrance from Anderson Rd and along the rear of the site.
4. Final, compliant exterior lighting and landscaping plans must be submitted to and approved by the Land Use Supervisor prior to a building permit being issued.
5. Any alterations to the approved plans that do not alter major elements of the plan may be approved by the Land Use Supervisor without further Planning Commission; however, no such administration approval shall constitute a variance from the provisions of Chapter 50.

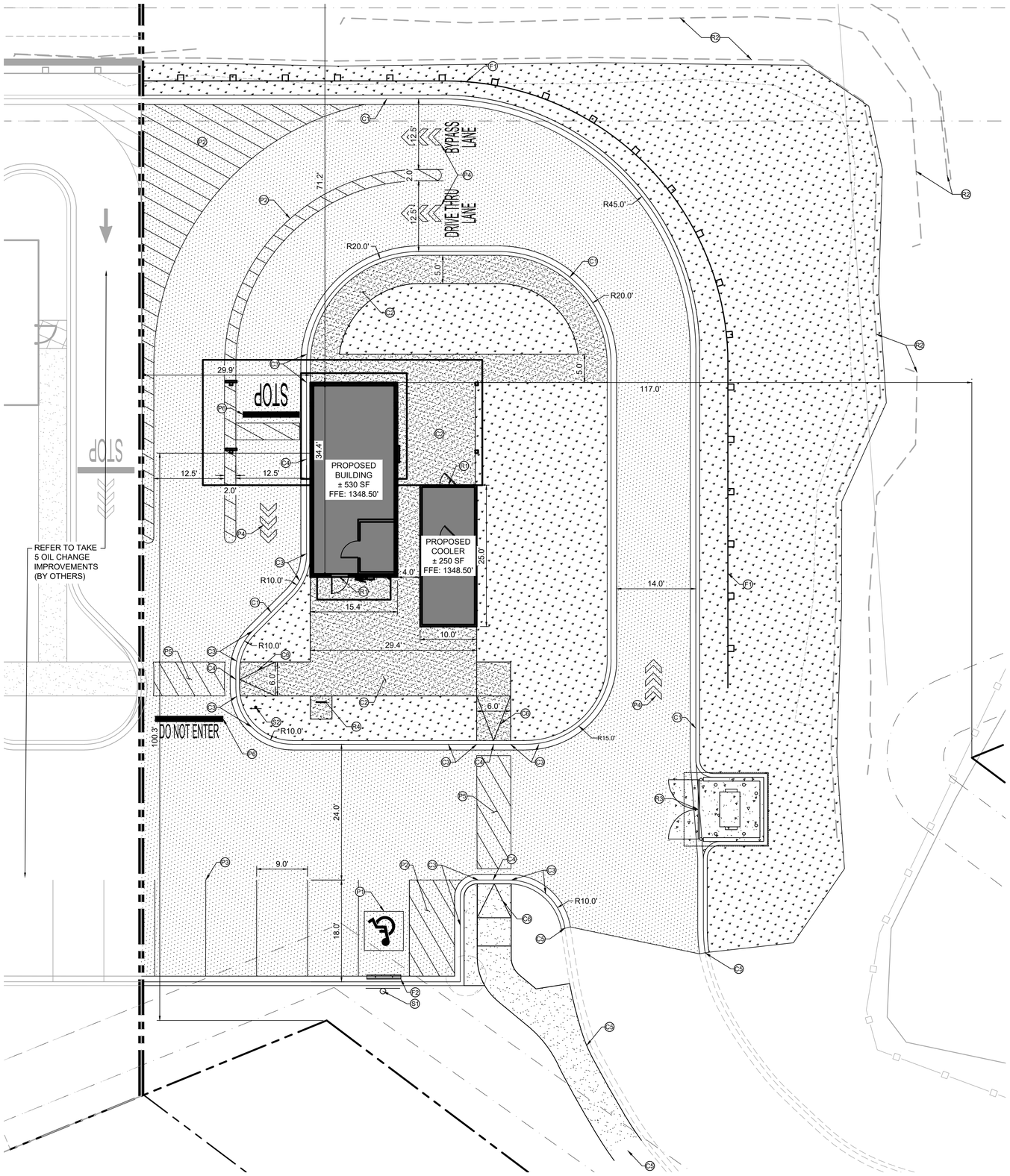
PLSUP-2412-0029
PLSUP-2412-0030

Special Use Permits
421 Anderson Rd

Legend

- Zoning Boundaries
- Road or Alley ROW
- County Parcel Data

The City of Duluth has tried to ensure that the information contained in this map or electronic document is accurate. The City of Duluth makes no warranty or guarantee concerning the accuracy or reliability. This drawing/data is neither a legally recorded map nor a survey and is not intended to be used as one. The drawing/data is a compilation of records, information and data located in various City, County and State offices and other sources affecting the area shown and is to be used for reference purposes only. The City of Duluth shall not be liable for errors contained within this data provided or for any damages in connection with the use of this information contained within.



PROPERTY SUMMARY	
TOTAL PROPERTY AREA	+/- 1.32 AC
DISTURBED AREA	+/- 0.52 AC
EXISTING IMPERVIOUS AREA	+/- 0.52 AC / 39.39%
EXISTING PERVIOUS AREA	+/- 0.80 AC / 60.61%
PROPOSED IMPERVIOUS AREA	+/- 0.41 AC / 31.06%
PROPOSED PERVIOUS AREA	+/- 0.91 AC / 68.94%
NET DECREASE IN IMPERVIOUS AREA	+/- 0.11 AC

SITE DATA	
EXISTING ZONING	MU-N
PROPOSED ZONING	MU-N
PROPOSED LAND USE	COFFEE SHOP
BUILDING SETBACKS	FRONT = 20' SIDE = 15' REAR = 15'

BUILDING DATA	
TOTAL BUILDING AREA	+/- 780 SF
PERCENT OF TOTAL PROPERTY AREA	1.36%
MAXIMUM BUILDING HEIGHT	45 FT
TOTAL CANOPY AREA	±1,100 SF

PARKING SUMMARY	
MAXIMUM PARKING	8 SPACES @ 10/1,000 SF
MINIMUM PARKING	5 SPACES @ 6.5/1,000 SF
TOTAL PROPOSED PARKING	5 SPACES
REQUIRED ACCESSIBLE PARKING	1 VAN ACCESSIBLE
PROPOSED ACCESSIBLE PARKING	1 VAN ACCESSIBLE

LEGEND

- PROPERTY LINE
- SETBACK LINE
- DRAINAGE AND UTILITY EASEMENT
- PROPOSED FENCE
- RETAINING WALL
- PROPOSED CURB AND GUTTER
- STANDARD DUTY ASPHALT PAVMENT — SEE DETAILS FOR SECTION
- HEAVY DUTY CONCRETE PAVEMENT — SEE DETAILS FOR SECTION
- STANDARD DUTY CONCRETE PAVEMENT / SIDEWALK — SEE DETAILS FOR SECTION

SITE PLAN NOTES

1. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF STOOPS, TRUCK DOCKS, TRASH ENCLOSURES & PRECISE BUILDING DIMENSIONS. REFER TO THE SITE ELECTRICAL PLAN FOR LOCATIONS OF PROPOSED LIGHT POLES, CONDUITS, AND ELECTRICAL EQUIPMENT.
2. REFER TO CERTIFIED SITE SURVEY OR PLAT FOR EXACT LOCATION OF EXISTING EASEMENTS, PROPERTY BOUNDARY DIMENSIONS, AND ADJACENT RIGHT-OF-WAY & PARCEL INFORMATION.
3. DIMENSIONS AND RADII ARE DRAWN TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. DIMENSIONS ARE ROUNDED TO THE NEAREST TENTH FOOT, AND AREAS ARE ROUNDED TO THE NEAREST SQUARE FOOT.
4. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING SITE IMPROVEMENTS THAT CONFLICT WITH THE PROPOSED WORK, INCLUDING BUT NOT LIMITED TO TRAFFIC SIGNS, LIGHT POLES, ABOVEGROUND UTILITIES, ETC. PERFORM WORK IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS. COST SHALL BE INCLUDED IN BASE BID.
5. TYPICAL PARKING STALL DIMENSIONS SHALL BE 9.0-FEET IN WIDTH AND 18-FEET IN LENGTH UNLESS OTHERWISE INDICATED.
6. MONUMENT SIGN(S) ARE DETAILED ON THE ARCHITECTURAL PLANS AND ARE SHOWN FOR GRAPHICAL & INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY SIGN DIMENSIONS, LOCATION AND REQUIRED PERMITS WITH THE OWNER.

KEYNOTE LEGEND

CURB, SIDEWALK & PAVEMENT

- C1 — 6" CONCRETE CURB & GUTTER (B612) - SEE DETAIL 2 ON SHEET C401
- C2 — CONCRETE SIDEWALK - SEE DETAIL 5 ON SHEET C401
- C3 — TRANSITION CURB - SEE DETAIL 4 ON SHEET C401
- C4 — FLUSH CURB - SEE DETAIL 3 ON SHEET C401
- C5 — MATCH EXISTING EDGE OF PAVEMENT / CURB & GUTTER
- C6 — ACCESSIBLE CURB RAMP - SEE DETAIL 7 & 8 ON SHEET C402

SITE FIXTURES

- F1 — GUARD RAIL - SEE DETAIL PLATE ON SHEET C401
- F2 — CONCRETE WHEEL STOP - SEE DETAIL 6 ON SHEET C401

PAVEMENT MARKINGS

- P1 — ACCESSIBLE PARKING SYMBOL & LOADING AREA - SEE DETAIL 4 ON SHEET C402
- P2 — STRIPED WHITE CROSS-HATCH AREA 4" SOLID LINES @ 45° 2' O.C.
- P3 — 4" WIDE WHITE PAINTED SOLID PARKING LOT LINE
- P4 — PAINTED WHITE DIRECTIONAL ARROW - SEE DETAIL 3 ON SHEET C402
- P5 — PAINTED WHITE CROSSWALK - SEE DETAIL 1 ON SHEET C402
- P6 — 24" WIDE PAINTED WHITE STOP BAR - SEE DETAIL 2 ON SHEET C402

SIGNAGE

- S1 — ADA PARKING SIGN IN BOLLARD - SEE DETAIL 5 ON SHEET C402
- S2 — DO NOT ENTER SIGN - SEE DETAIL 6 ON SHEET C402

REFERENCE NOTES

- R1 — AT-GRADE BUILDING ENTRY & STRUCTURAL STOOP - REFER TO ARCHITECTURAL & STRUCTURAL PLANS
- R2 — RETAINING WALL (BY OTHERS) - REFER TO GRADING PLAN
- R3 — TRASH ENCLOSURE - REFER TO ARCHITECTURAL PLANS
- R4 — ROLLING BIKE RACK, (DERO) - SUBMIT SHOP DRAWINGS TO OWNER FOR APPROVAL

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

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

PRELIMINARY - NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BRIAN M. WURDEMAN, P.E.
DATE: 02/19/2025 MN LIC. NO. 53113

KHA PROJECT	161282000
DATE	02/19/2025
SCALE	AS SHOWN
DESIGNED BY	CGM
DRAWN BY	MOB
CHECKED BY	BMW

SITE DIMENSION PLAN

7 BREW - DULUTH
JIGSAW
PREPARED FOR
COLD BREW LLC
DULUTH MN

SHEET NUMBER
C400

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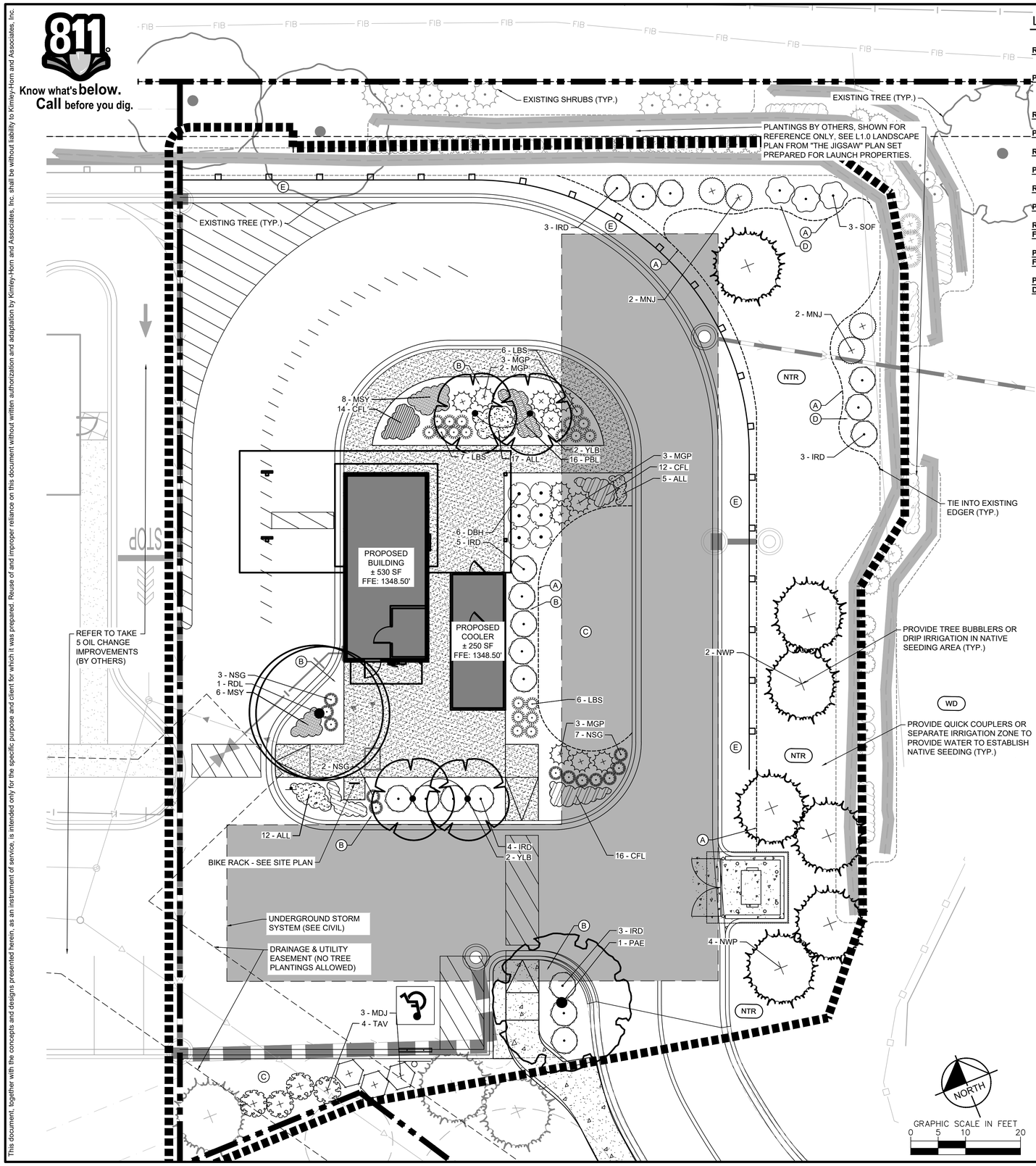

LANDSCAPE SUMMARY

REQUIRED FRONTAGE PLANTS:	6 TREES = 189 L.F. / 35 8 SHRUBS = 189 / 25 L.F.
PROVIDED FRONTAGE PLANTS:	BY OTHERS, SEE L1.0 LANDSCAPE PLAN FROM "THE JIGSAW" PLAN SET PREPARED FOR LAUNCH PROPERTIES.
REQUIRED PARKING LOT LANDSCAPE:	209 S.F = 1,388 S.F. * 0.15
PROVIDED PARKING LOT LANDSCAPE:	440 S.F.
REQUIRED PARKING LOT TREES:	1 OVERSTORY TREE = 209 / 300 S.F.
PROVIDED PARKING LOT TREES:	1 OVERSTORY TREE
REQUIRED SHADE AREA:	1,440 S.F. = 4,800 S.F. * 0.3 (30% OF PARKING AREA)
PROVIDED SHADE AREA:	2,815 S.F.
REQUIRED SCREENING AT BACK FOR RESIDENTIAL LOT:	12 SHRUBS = (93 / 25 LF) * 3
PROVIDED SCREENING AT BACK FOR RESIDENTIAL LOT:	13 SHRUBS
PROPOSED SPECIAL TREE SPECIES DIAMETER:	28.5"

LANDSCAPE LEGEND

EDGER (TYP.)

APPROXIMATE LIMITS OF SOD / SODDING ALL DISTURBED AREAS UNLESS WHERE SEED SPECIFIED (TYP.)

LANDSCAPE KEYNOTES (A)

- (A) EDGER (TYP.)
- (B) DOUBLE SHREDDED HARDWOOD MULCH (TYP.)
- (C) SOD (TYP.)
- (D) ROCK MULCH (TYP.)
- (E) BLASTED ROCK (TYP.)

SEEDING KEYNOTES (MN)

- (NTR) SEED WITH MNDOT NTR MIX: NORTHWEST TALLGRASS ROADSIDE SEED MIX (TYP.)
- (WD) SEED WITH MNDOT WD MIX: WET DITCH SEED MIX (TYP.)

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	N/A	CAL.
ORNAMENTAL TREES						
	YLB	4	YELLOW BIRCH	BETULA ALLEGHANIENSIS	B & B	1.5" CAL.
CONIFEROUS TREE						
	NWP	7	NORWAY PINE	PINUS RESINOSA	B & B	6` HT.
OVERSTORY TREE						
	PAE	1	PRAIRIE EXPEDITION AMERICAN ELM	ULMUS AMERICANA 'LEWIS & CLARK' TM	B & B	2.5" CAL.
	RDL	1	REDMOND AMERICAN LINDEN	TILIA AMERICANA `REDMOND`	B & B	2.5" CAL.

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONTAINER	SPACING
DECIDUOUS SHRUBS						
	DBH	6	DWARF BUSH HONEYSUCKLE	DIERVILLA LONICERA	#5 CONT.	4` O.C.
	IRD	18	ISANTI REDOSIER DOGWOOD	CORNUS SERICEA `ISANTI`	#5 CONT.	5` O.C.
	SOF	3	SHOW OFF FORSYTHIA	FORSYTHIA X INTERMEDIA `MINDOR`	#5 CONT.	5` O.C.
EVERGREEN SHRUBS						
	MDJ	3	MEDORA JUNIPER	JUNIPERUS SCOPULORUM `MEDORA`	#5 CONT.	5` O.C.
	MGP	11	MUGO PINE	PINUS MUGO `SLOWMOUND`	#5 CONT.	4` O.C.
	MNJ	4	MANEY JUNIPER	JUNIPERUS CHINENSIS 'MANEY'	#5 CONT.	5` O.C.
	TAV	4	TECHNY ARBORVITAE	THUJA OCCIDENTALIS 'TECHNY'	#5 CONT.	5` O.C.
ORNAMENTAL GRASSES						
	LBS	19	BLUE HEAVEN® LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA'	#1 CONT.	2.5` O.C.
	NSG	12	NORTHWIND SWITCH GRASS	PANICUM VIRGATUM 'NORTHWIND'	#1 CONT.	30" O.C.

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CTNR.	SPACING
PERENNIALS						
	ALL	34	MILLENIUM ORNAMENTAL ONION	ALLIUM X `MILLENIUM`	#1 CONT.	18" O.C.
	CFL	42	WHITE SWAN CONEFLOWER	ECHINACEA PURPUREA `WHITE SWAN`	#1 CONT.	18" O.C.
	MSY	20	MOONSHINE YARROW	ACHILLEA X `MOONSHINE`	#1 CONT.	24" O.C.
	PBL	16	POPSICLE BLUE LUPINE	LUPINUS X 'POPSICLE BLUE'	#1 CONT.	18" O.C.

NOTE:
- QUANTITIES ON PLAN SUPERSEDE LIST QUANTITIES IN THE EVENT OF A DISCREPANCY.

- SPECIAL TREE SPECIES: WHITE PINES (PINUS STROBUS), RED (NORWAY) PINES (PINUS RESINOSA), WHITE CEDARS (THUJA OCCIDENTALIS), WHITE SPRUCES (PICEA GLAUCA), EASTERN HEMLOCKS (TSUGA CANADENSIS), SUGAR MAPLES (ACER SACCHARUM), AMERICAN BASSWOODS (TILIA AMERICANA), AMERICAN ELMS (ULMUS AMERICANA), YELLOW BIRCHES (BETULA ALLEGHANIENSIS) AND ALL OAK SPECIES

ABBREVIATIONS:
B&B = BALLED AND BURLAPPED CAL. = CALIPER HT. = HEIGHT MIN. = MINIMUM O.C. = ON CENTER SP. = SPECIES
QTY. = QUANTITY

No.	REVISIONS	DATE	BY

Kimley»Horn
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN A. HYLLESTED
DATE: 3/18/2024 MN LIC. NO. 53828

KHA PROJECT 161282000
DATE 03/18/2025
SCALE AS SHOWN
DESIGNED BY ATK
DRAWN BY ATK
CHECKED BY RAH

PRELIMINARY - NOT FOR CONSTRUCTION

LANDSCAPE PLAN

7 BREW - DULUTH
JIGSAW
PREPARED FOR
COLD BREW LLC
DULUTH MN

SHEET NUMBER
L100

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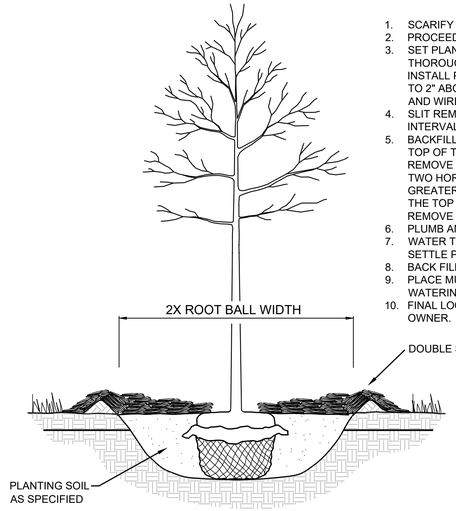
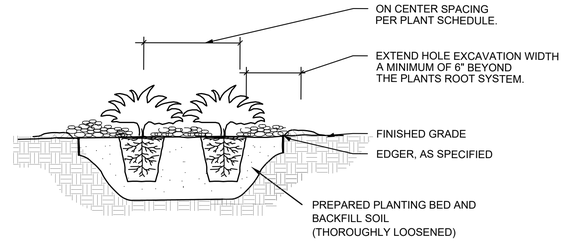


NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

1 TREE PLANTING DETAIL

SCALE: N.T.S. L101

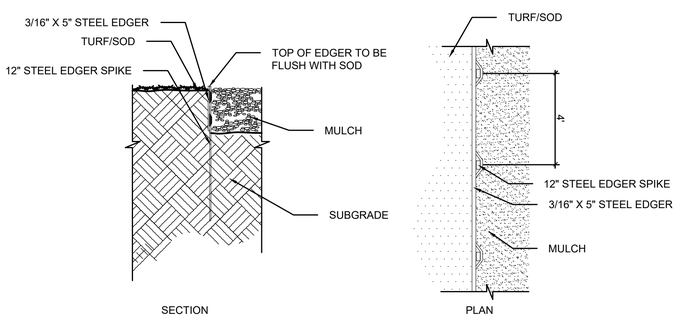


NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

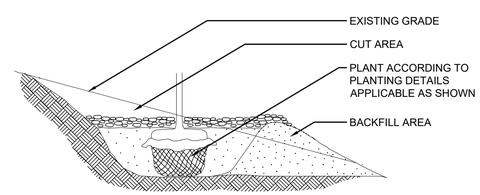
2 SHRUB / PERENNIAL PLANTING DETAIL

SCALE: N.T.S. L101



3 STEEL EDGER DETAIL

SCALE: N.T.S. L101



NOTE:

1. EXTENDED EXCAVATION AND BACKFILL SOIL TO A POINT DOWNSLOPE EQUAL TO OR LOWER IN ELEVATION THAN THE BOTTOM OF THE HOLE DIRECTLY BENEATH THE PLANT TO INSURE ADEQUATE DRAINAGE IN HEAVY SOILS. GRANULAR SOIL MUST BE ADDED AS BACKFILL IN AREAS OF POOR DRAINAGE.

4 STEEP SLOPE PLANTING

SCALE: N.T.S. L101

LANDSCAPE NOTES

PLANTING

1. CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
   ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
   ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
   ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
   ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
   CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER MNLA & ANSI STANDARD PLANTING PRACTICES.
9. INSTALL PLANTS BY PLANT INSTALLATION PERIOD INFORMATION IN THE LATEST STANDARD PLANTING DETAILS FROM MNDOT. PLANTINGS BEFORE OR AFTER THESE DATES ARE DONE AT RISK.
10. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
11. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLARE IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLARE. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLARE SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
12. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
13. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
14. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
15. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.

SOIL

16. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
17. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MNDOT STANDARD SPECIFICATION 3877 (LOAM TOPSOIL BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.

MULCH

18. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR (DYE-FREE), OR APPROVED EQUAL. APPLY PRE-EMERGENT HERBICIDE PRIOR TO MULCH PLACEMENT PER MANUFACTURER RECOMMENDATIONS, USE PREEN OR PRE-APPROVED EQUAL. BLASTED ROCK TO BE ON COMMERCIAL GRADE FILTER FABRIC, BY TYPAR, OR APPROVED EQUAL WITH NO EXPOSURE. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).

EDGER

19. EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK x 5" TALL, COLOR BLACK, OR SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. WHERE EDGING TERMINATES AT A SIDEWALK, BEVEL OR RECESS ENDS TO PREVENT TRIP HAZARD. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).

SEED/SOD

20. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD MINNESOTA GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED. SEED AS SPECIFIED, PER MNDOT SPECIFICATIONS AND SUPPLIER/MANUFACTURER RECOMMENDATIONS. IF NOT INDICATED ON LANDSCAPE PLAN, SEE EROSION CONTROL PLAN.

IRRIGATION

21. PROVIDE NEW SYSTEM TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR. SYSTEM SHALL INCLUDE A RAIN/FREEZE SENSOR, FLOW SENSOR, MASTER VALVE, PRESSURE-REGULATED HEADS AND APPROPRIATE TECHNOLOGY, INCLUDING SMART CONTROLLER.
22. PROVIDE TREE BUBBLERS OR DRIP IRRIGATION TO TREES IN NATIVE SEEDING AREA.
23. PROVIDE QUICK COUPLERS OR SEPARATE IRRIGATION ZONE TO PROVIDE WATER TO ESTABLISH NATIVE SEEDING.

ESTABLISHMENT

24. PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
25. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.

WARRANTY

26. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
27. MAINTAIN TREES, SHRUBS, SEED AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, SEED AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 60 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

No.	REVISIONS	DATE	BY

Kimley»Horn
2025 KIMLEY-HORN AND ASSOCIATES, INC.
11995 SINGLETREE LN, SUITE 225 EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN A. HYLLESTED
DATE: 2/18/2025 MN LIC. NO. 53828

KHA PROJECT	161282000
DATE	3/18/2025
SCALE	AS SHOWN
DESIGNED BY	ATK
DRAWN BY	ATK
CHECKED BY	RAH

LANDSCAPE DETAILS

PRELIMINARY - NOT FOR CONSTRUCTION

7 BREW - DULUTH
JIGSAW
PREPARED FOR
COLD BREW LLC
DULUTH MN

SHEET NUMBER
L101

K:\TWC_LDEV\7 Brew\duluth, mn\3 Design\CAD\plansheets\L1-LANDSCAPE DETAILS.DWG April 01, 2025 - 2:56pm
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

K:\TWC_LDEV\LAUNCH PROPERTIES\DULUTH-JIGSAW\3 Design\CAD\PlanSheets\CITY LANDSCAPE PLANS\L1-LANDSCAPE PLAN-post construction.dwg April 15, 2025 - 4:37pm

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Jgsaw Landscape Requirements (For Reference Only)

	Overall Site Required	*Overall Site Provided*	*Developer (Launch) Provided*	*Mister Carwash Required*	*Mister Carwash Provided*	*Popeye's Required*	*Popeye's Provided*	*Take 5 Required*	*Take 5 Provided*	*7 Brew Required*	*7 Brew Provided*
Street Frontage Trees & Shrubs	22 Total Street Trees 31 Total Shrubs 18 Trees=628 L.F. W. Central Entrance /35 26 Shrubs=628 L.F. W. Central Entrance /25 4 Trees=106 L.F. Anderson Rd. /35 5 Shrubs=106 L.F. Anderson Rd./25	**24 TREES** **43 SHRUBS**	**14 TREES** **18 SHRUBS**	7 TREES=214 L.F./35 9 Shrubs=214 L.F./35	**7 Trees** **21 Shrubs**	4 TREES=123 L.F./35 5 Shrubs=123 L.F./25	**0**	3 TREES= (103 L.F.-14 L.F. DRIVEWAY)/35 4 SHRUBS= (103 L.F.-14 L.F. DRIVEWAY)/25	**3 TREEES** **4 SHRUBS**	6 TREES= 189 L.F./35 8 SHRUBS= 189 L.F./25	**0 TREES** **0 SHRUBS**
Interior Parking Lot Trees		**7**		5 TREES= 1,372/300	**6**	7 TREES= 2083/300	**7**			1 TREE=209/300	**1**
Replacement Trees	53 Special Trees	**49 Special Trees**	**20 Special Trees**		**6**		**7 Special Trees**		**17**		**6**

BASED ON PLANS DATED 8/11/21 BY WOOLPERT

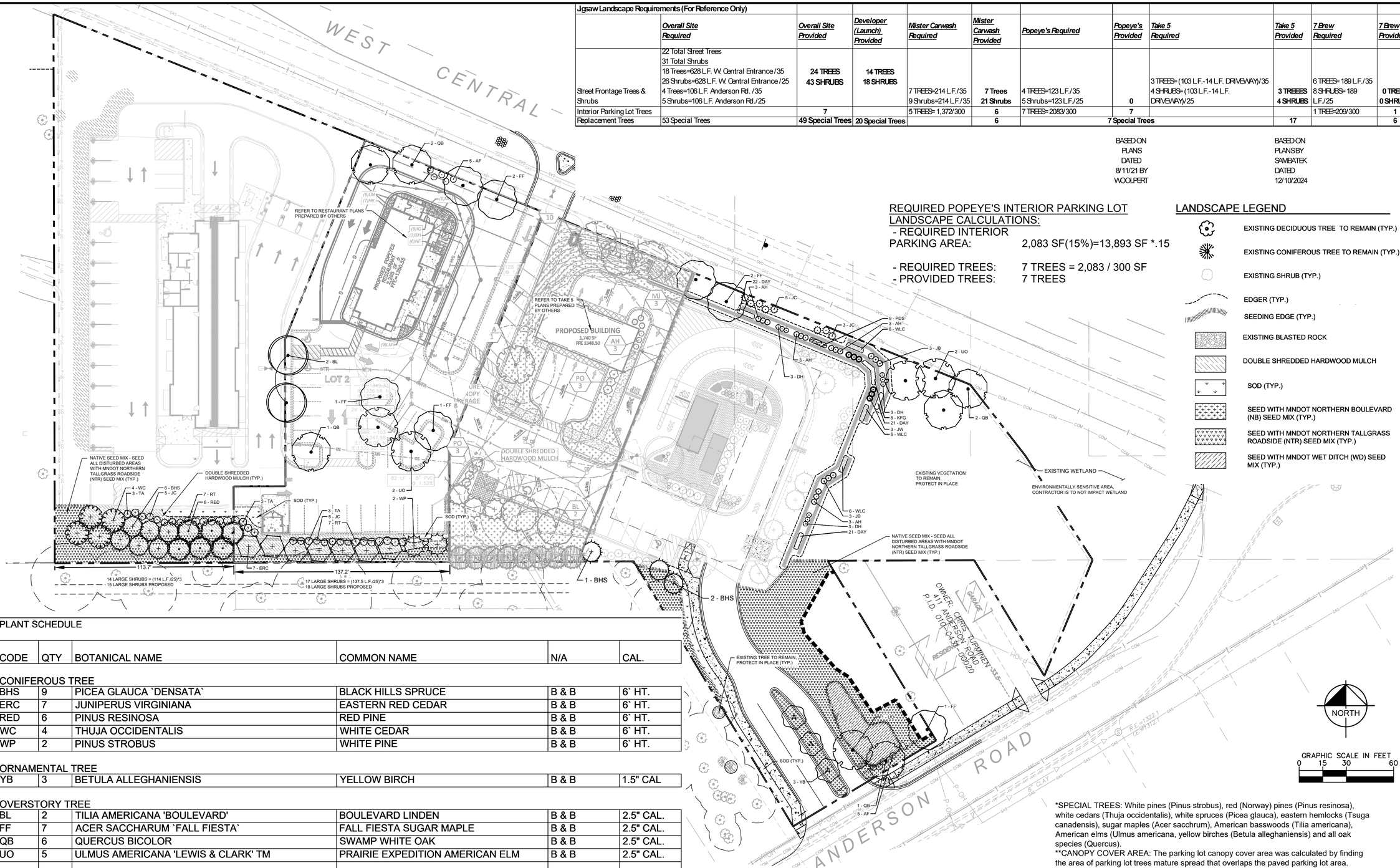
BASED ON PLANS BY SAMBATEK DATED 12/10/2024

REQUIRED POPEYE'S INTERIOR PARKING LOT LANDSCAPE CALCULATIONS:

- REQUIRED INTERIOR PARKING AREA: 2,083 SF(15%)=13,893 SF *.15
- REQUIRED TREES: 7 TREES = 2,083 / 300 SF
- PROVIDED TREES: 7 TREES

LANDSCAPE LEGEND

- EXISTING DECIDUOUS TREE TO REMAIN (TYP.)
- EXISTING CONIFEROUS TREE TO REMAIN (TYP.)
- EXISTING SHRUB (TYP.)
- EDGER (TYP.)
- SEEDING EDGE (TYP.)
- EXISTING BLASTED ROCK
- DOUBLE SHREDDED HARDWOOD MULCH
- SOD (TYP.)
- SEED WITH MNDOT NORTHERN BOULEVARD (NB) SEED MIX (TYP.)
- SEED WITH MNDOT NORTHERN TALLGRASS ROADSIDE (NTR) SEED MIX (TYP.)
- SEED WITH MNDOT WET DITCH (WD) SEED MIX (TYP.)



PLANT SCHEDULE					
CODE	QTY	BOTANICAL NAME	COMMON NAME	N/A	CAL.
CONIFEROUS TREE					
BHS	9	PICEA GLAUCA `DENSATA`	BLACK HILLS SPRUCE	B & B	6` HT.
ERC	7	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	B & B	6` HT.
RED	6	PINUS RESINOSA	RED PINE	B & B	6` HT.
WC	4	THUJA OCCIDENTALIS	WHITE CEDAR	B & B	6` HT.
WP	2	PINUS STROBUS	WHITE PINE	B & B	6` HT.
ORNAMENTAL TREE					
YB	3	BETULA ALLEGHANIENSIS	YELLOW BIRCH	B & B	1.5" CAL
OVERSTORY TREE					
BL	2	TILIA AMERICANA 'BOULEVARD'	BOULEVARD LINDEN	B & B	2.5" CAL.
FF	7	ACER SACCHARUM `FALL FIESTA`	FALL FIESTA SUGAR MAPLE	B & B	2.5" CAL.
QB	6	QUERCUS BICOLOR	SWAMP WHITE OAK	B & B	2.5" CAL.
UO	5	ULMUS AMERICANA 'LEWIS & CLARK' TM	PRAIRIE EXPEDITION AMERICAN ELM	B & B	2.5" CAL.
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
SHRUBS					
AF	10	CORNUS SERICEA `ARTIC FIRE`	ARTIC FIRE DOGWOOD	#5 CONT.	4` O.C.
AH	12	HYDRANGEA ARBORESCENS `ANNABELLE`	ANNABELLE SMOOTH HYDRANGEA	#5 CONT.	3.5` O.C.
DH	9	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	#5 CONT.	3` O.C.
JB	6	JUNIPERUS HORIZONTALIS 'BLUE PRINCE'	BLUE PRINCE JUNIPER	#5 CONT.	4` O.C.
JC	18	JUNIPERUS CHINENSIS `SEA GREEN`	SEA GREEN JUNIPER	#5 CONT.	5` O.C.
JW	6	JUNIPERUS HORIZONTALIS 'WILTONII'	BLUE RUG JUNIPER	#5 CONT.	4` O.C.

*SPECIAL TREES: White pines (Pinus strobus), red (Norway) pines (Pinus resinosa), white cedars (Thuja occidentalis), white spruces (Picea glauca), eastern hemlocks (Tsuga canadensis), sugar maples (Acer sacchrum), American basswoods (Tilia americana), American elms (Ulmus americana, yellow birches (Betula alleghaniensis) and all oak species (Quercus).

**CANOPY COVER AREA: The parking lot canopy cover area was calculated by finding the area of parking lot trees mature spread that overlaps the paved parking lot area.

RT	14	CORNUS SERICEA 'ISANTI'	ISANTI RED TWIG DOGWOOD	#5 CONT.	5` O.C.
TA	9	THUJA OCCIDENTALIS 'TECHNY'	TECHNY ARBORVITAE	#5 CONT.	5` O.C.
CODE	QTY	BOTANICAL NAME	COMMON NAME	CTNR.	SPACING
PERENNIALS					
DAY	64	HEMEROCALLIS X `APRICOT SPARKLES`	APRICOT SPARKLES DAYLILY	#1 CONT.	15" O.C.
KFG	8	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER`	KARL FOERSTER FEATHER REED GRASS	#1 CONT	30" O.C.
PDS	9	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	#1 CONT	24" O.C.
WLC	18	NEPETA X FAASSENII `WALKERS LOW`	WALKERS LOW CATMINT	#1 CONT	30" O.C.

No.	REVISIONS	DATE	BY
1	GRADING/UTILITY REVISIONS	04/13/2023	BMW
2	DEVELOPER / CONTRACTOR COORDINATION	07/20/2023	BMW
3	UTILITY REVISIONS	09/28/2023	BMW
4	OVERALL LANDSCAPE UPDATES	02/10/2025	RAH

Kimley»Horn

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767 EUSTIS ST, SUITE 100, ST. PAUL, MN 55114
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

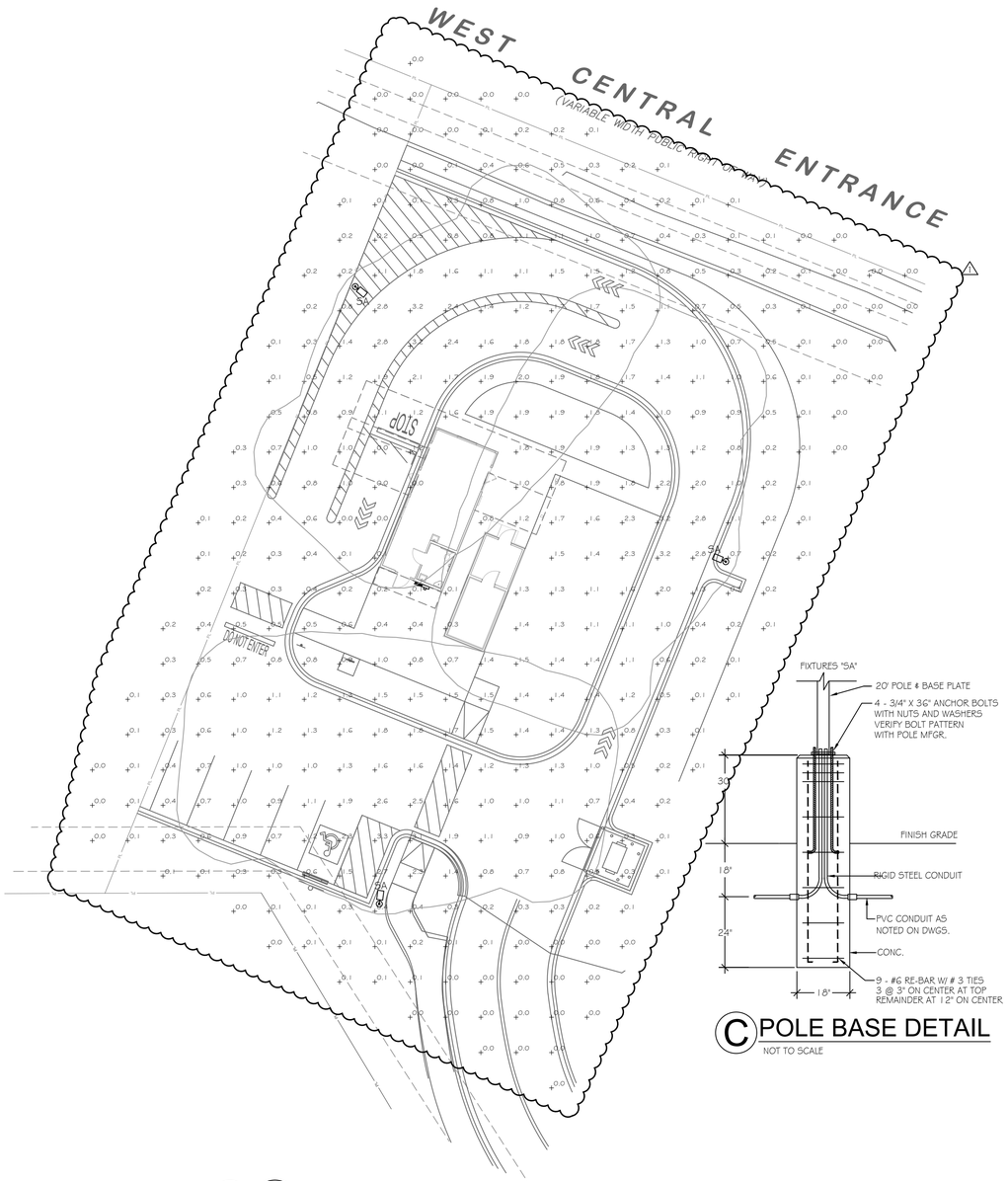
RYAN A. HYLLESTED, P.L.A.
MN LIC. NO. 53828
DATE: 02/25/2023

KHA PROJECT 160734013	
DATE	02/25/2023
SCALE	AS SHOWN
DESIGNED BY	RAH
DRAWN BY	RAH
CHECKED BY	RAH

LANDSCAPE PLAN

THE JIGSAW
PREPARED FOR
LAUNCH PROPERTIES
DULUTH MN

SHEET NUMBER
L1.0

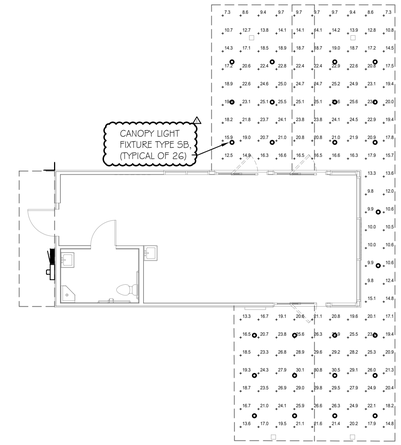


NORTH

A ELECTRICAL SITE PLAN - PHOTOMETRIC

SCALE: 1/16" = 1'-0"

0 2 4 8 16 32



B CANOPY PLAN - PHOTOMETRIC

SCALE: 1/8" = 1'-0"

0 2 4 8 16

CALCULATION SUMMARY

LABEL	UNITS	AVG.	MAX	MIN	MAX AT PROPERTY LINE
DRIVE	FC	1.0	3.3	0.0	NA
CANOPY	FC	5.3	10.5	2.6	0.0

CALCULATIONS BASED ON CITY OF DULUTH, MINNESOTA DESIGN GUIDELINES.

POINT SPACING LEFT-TO-RIGHT = 8 ft
POINT SPACING TOP-TO-BOTTOM = 8 ft
TOTAL NUMBER OF POINTS = 648

C POLE BASE DETAIL

NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

SYM	QTY	DESCRIPTION	MFGR.	CAT No.	LAMP TYPE	LAMP CODE	MOUNTING	NOTES
5A	3	SINGLE HEAD POLE LIGHT	McGRAW EDISON	TLM-E04-LED-E1-5L4-BZ-SMA1011-BZ	LED	11,816 lm (97W)	ON 20' POLE	1
5B	26	NEW EXTERIOR CANOPY LIGHT	JUNO	6RLD G4 10LM 27K 90CRI 120 FRPC WWH MG-LED-IC-AT	LED	INCLUDED (10W)	RECESS / CANOPY	2

NOTES:

1. SINGLE HEAD FIXTURE MOUNTED ON 20' POLE MCGRAW EDISON # SSS5A205FM1X. SEE POLE BASE DETAIL.
2. SEALED RECESS LED DOWNLIGHT, RATED FOR WET LOCATIONS, FURNISHED WITH CANOPY.

JUNO

RLD Series LED Downlight Retrofit

6" LED Retrofit Baffle Trim Module

6RLD G4

Project:	
Fixture Type:	FIXTURE SB
Location:	
Contact/Phone:	

6RLD G4 Series

Product Features

The 6" RLD LED module provides an affordable means to create a well lit environment with exceptional energy efficiency and near zero maintenance. Great for retrofit into existing downlight cans or for use in new construction and remodel applications. The LED module maintains at least 70% light output for 50,000 hours.

- Durable die-cast aluminum all-in-one design replaces traditional lamp and trim for energy savings
- Crisp baffle grooves and deep source regression minimizes glare and ceiling brightness
- Dedicated 6" trim size provides proper scale and aesthetics to replace 6" legacy trims with minimal flange thickness

Applications

- Retrofit into existing downlight cans or use as an economical LED solution for new construction downlighting in residential and light commercial applications
- Torsion springs are pre-installed for ease of installation and suitable for installation in 6" standard and shallow-height housings
- Wet rated and air-loc: perfect for showers and bathrooms

Performance

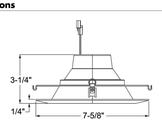
Delivered Lumens	Nominal 700L or 1000L
LED Color Temperature	2700K, 3000K
CRI	90+
Voltage	Dedicated 120V
Dimming	Dimmable flicker-free dimming from 100% to 5%

For a list of compatible dimmers see JUNORLDSERIES-DIM

Specifications

Aperture: 6"
Ceiling opening: 6.5"
Overlap trim: 7.625"
Height: 3.25"

Dimensions



Ships with:

E26 Adapter

McGraw-Edison

Catalog #	
Project	
Comments	
Prepared by	

Type: FIXTURE SA
Date:

DESCRIPTION

Incorporating modular LED LightBAR™ technology, the Talon luminaire brings outstanding uniformity and energy-conscious illumination to walkways, parking lots, roadways, building areas and any security lighting application. UL/ cUL listed for wet locations.

SPECIFICATION FEATURES

Construction
One-piece heavy-wall, die-cast aluminum construction with integral reveal channels along top surface of housing. Optimized for reliable operation from 40°C down to -40°C. Internal cast-in wall separates optical and electrical chambers allowing components to operate cooler. Stainless steel latches and hinges allow for tool-less opening and removal of door frame.

Optics
Choice of twelve patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT. For the ultimate level of spill light control, an optional house-side-shield accessory can be field or factory installed. The house-side shield is designed to seamlessly integrate with the SL2, SL3 or SL4 optics.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

Mounting
Extruded 8" aluminum arm includes internal bolt guides allowing for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter for contractor-friendly arrival of product on site. Optional mounting methods include a wall mount plate, an external mast arm that accepts 2-3/8" O.D. horizontal tenons and direct mounting to pole or wall surfaces. Tenon adapters available to slipfit over poles equipped with 2-3/8" or 3-1/2" O.D. tenon. 3G vibration rated.

Finish
Housing and arm finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the Product Finishes Selection Guide for complete list of available finishes. Options to meet Buy American Act requirements.

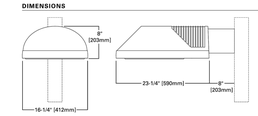
Warranty
Five-year warranty.

TLM
TALON MEDIUM LED

1 - 6 LightBARs
Solid State LED

ARCHITECTURAL AREA LUMINAIRE

DIMENSIONS



CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightBARs
3G Vibration Rated
ISO 9001

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

EPA
Effective Projected Area: (Sq. Ft.)
1.89 with 8" Arm

SHIPPING DATA
Approximate Net Weight:
42 lbs. (19.09 kgs.)

COOPER Lighting Solutions

TD500010EN
May 24, 2023 7:27 PM

Steel Poles

Catalog #	
Project	
Comments	
Prepared by	

Type: FIXTURE SA
Date

SSS SQUARE STRAIGHT STEEL

FEATURES
- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS - VIBRATIONS AND NON-GROUND MOUNTED INSTALLATIONS

The information contained herein is for general guidance only and is not a replacement for professional judgment. Design considerations for wind-induced vibrations and non-ground mounted installations (e.g., installations on bridges or buildings) are not included in this document. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Refer to the Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. Learn more.

NOTE: The Limited Warranty for this product specifically excludes fatigue failure or similar damage resulting from vibration, harmonic oscillation or resonance.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

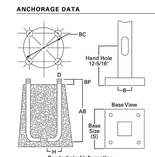
ORDERING INFORMATION

SAMPLE NUMBER: SSA4205FM1XG

Product Family	Shaft Size (Inches)[1]	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	**4**=4" **5**=5" **6**=6"	**A**=0.120" **M**=0.188" **X**=0.250"	**10**=10' **15**=15' **20**=20' **25**=25' **30**=30' **35**=35' **39**=39'	**S**=Square Steel Base	**F**=Dark Bronze **G**=Galvanized Steel **J**=Summit White **K**=Carbon Bronze **L**=Dark Platinum **R**=Hartford Green **S**=Silver **T**=Graphite Metallic **V**=Grey **W**=White **X**=Custom Color **Y**=Black	**2**=2-3/8" O.D. Tenon (4" Long) **3**=3-1/2" O.D. Tenon (8" Long) **4**=4" O.D. Tenon (8" Long) **B**=2" O.D. Tenon (4" Long) **C**=2-3/8" O.D. Tenon (8" Long) **7**=4" O.D. Tenon (10" Long) **A**=Type A Drilling **D**=Type D Drilling **E**=Type E Drilling **F**=Type F Drilling **G**=Type G Drilling **J**=Type J Drilling **K**=Type K Drilling **M**=Type M Drilling **N**=Type N Drilling **R**=Type R Drilling **Z**=Special Tenon/Sweep Arm[4] **Z**=Type Z Drilling	**1**=Single **2**=2 at 180° **3**=Triple[3] **4**=4 at 90° **5**=2 at 90° **X**=None	**X**=None **2**=2' **3**=2.5' **4**=4' **6**=6' **8**=8'	**A**=1/2" Tapped Hub[5] **B**=3/4" Tapped Hub[5] **C**=Convenience Outlet[6] **E**=GFCI Convenience Outlet[6] **G**=Ground Lug **H**=Additional Hand Hole[6] **V**=Vibration Dampener

NOTES: 1. All shaft sizes nominal. **2.** Square poles are 3 at 90°, round poles are 3 at 120°. **3.** Tapped Hub is located 6" below the pole top and on the same side of pole as hand hole, unless specified otherwise. **4.** Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. **5.** Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified. **6.** Arm must be ordered separately.

ANCHORAGE DATA



Pole	Template Number	Bolt Number	Bolt Circle (Inches)	Number of Bolts	Bolt Size (inches)
SSS4	TMP1	AB1	8.5 - 11.0	4	3/4 x 25 x 3
SSS5	TMP1	AB1	11.0	4	3/4 x 25 x 3
SSS6	TMP2	AB3	12.5	4	1 x 36 x 4

COOPER Lighting Solutions

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December 10, 2024 Site Lighting
February 17, 2025 Site Lighting Comments

Electrical Site Plan
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