





CALL BEFORE YOU DIG! Gopher State One Call

TWIN CITY AREA: 651-454-0002 TOLL FREE: I-800-252-II66

CIVIL LEGEND

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	CATCH BASIN	⊘
)	CULVERT	
	HYDRANT	•
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	LIGHT POLE	*
	POWER POLE	ø
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	WATER MANHOLE	
	TELEPHONE MANHOLE	
	UTILITY MANHOLE	
	ELECTRIC MANHOLE	
	WATER SERVICE	
	SANITARY SERVICE	
	HANDICAP PARKING	گ
	DIRECTION OF FLOW	100
	SPOT ELEVATION	edra.
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	SANITARY SEWER	
	STORM SEWER	\longrightarrow
	WATERMAIN	
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	DRAINTILE	>>
	SILT FENCE	
	CURB & GUTTER	
	RETAINING WALL	
	TREELINE	~~~~
	EASEMENT LINE	
	SETBACK LINE	
	FENCE LINE	—х——х—
	UNDERGROUND TELE	
	UNDERGROUND GAS	
	OVERHEAD UTILITY	
	UNDERGROUND FIBER OPTION	2
	UNDERGROUND ELECTRIC	
	UNDERGROUND CABLE TV	
	 PROPERTY LINE 	
業	CONFEROUS TREE	
	DECIDUOUS TREE	
	PARKING COUNTS	23

INVICTUS BREWERY

LOUCKS

LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

CADD QUALIFICATION

QUALI	I Y CONTROL
Loucks Project No.	160
Project Lead	NM
Drawn By	SI
Checked By	NM
Review Date	03/22/

C1-1	EXISTING CONDITIO
C2-1	SITE PL
C3-1	GRADING & DRAINAGE PL
C3-2	SW
C3-3	SW
C4-1	UTILITY PL
C8-1	CIVIL DETA
L1-1	LANDSCAPE PL
121	I ANDCCADE DETA

BENCHMARK =

SITE PLAN LEGEND

SITE DATA

SITE NOTES

CITY REQUIREMENT: 1 STALL PER 100 SF TOTAL BUILDING S.F. - 8,474 S.F.

ACCESSIBLE PARKING ■

EXISTING ACCESSIBLE PARKING:

REMOVED ACCESSIBLE PARKING: -0 STALLS

PROPOSED ACCESSIBLE PARKING: 5 STALLS
TOTAL 5 STALLS REQUIRED ACCESSIBLE PARKING: 4 STALLS**

JURISDICTION REQUIREMENTS.

CONSTRUCTION LIMITS

CURRENT ZONING: 12 - HEAVY INDUSTRIAL PROPOSED ZONING: 12 - HEAVY INDUSTRIAL PROPERTY AREA: 2.00 AC EXISTING IMPERVIOUS AREA: 0.17 AC (8.5%) PROPOSED IMPERVIOUS AREA: 1.22 AC (61%)

CONCRETE SIDEWALK BITUMINOUS PAVEMENT

HEAVY DUTY BITUMINOUS PAVEMENT

ALL PAVING, CONCRETE CURB, GUTTER AND SIDEWALK SHALL BE FURNISHED AND INSTALLED

IN ACCORDANCE WITH THE DETAILS SHOWN PER THE DETAIL SHEET(S) AND STATE/LOCAL

2. ACCESSIBLE PARKING AND ACCESSIBLE ROUTES SHALL BE PROVIDED PER CURRENT ADA STANDARDS AND LOCAL/STATE REQUIREMENTS.

3. ALL CURB DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED. 4. ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL UNLESS OTHERWISE NOTED.

7. BITUMINOUS IMPREGNATED FIBER BOARD TO BE PLACED AT FULL DEPTH OF CONCRETE ADJACENT TO EXISTING STRUCTURES AND BEHIND CURB ADJACENT TO DRIVEWAYS AND SIDEWALKS.

**REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES FOR 76 TO 100 STALLS

5. TYPICAL FULL SIZED PARKING STALL IS 9' X 20' UNLESS OTHERWISE NOTED.

6. ALL CURB RADII SHALL BE 3.0' UNLESS OTHERWISE NOTED.

TOTAL PARKING REQUIRED = 8,474/100 = 85 STALLS EXISTING PARKING = 0 STALLS
PROPOSED TOTAL PARKING PROVIDED = 85 STALLS

8. SEE SITE ELECTRICAL PLAN FOR SITE LIGHTING. OFF-STREET PARKING CALCULATIONS

TOP NUT HYDRANT LOCATED NEAR THE SOUTHWEST OF THE PROPERTY ELEVATION=902.80 FEET (NGVD 1929)

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

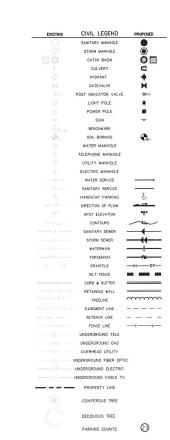


105th Ave. N.E.

GRADES

County Road No. 87





GRADING, DRAINAGE & EROSION CONTROL NOTES

- SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- 3. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED.
- 4. FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT WALL GRADE TRANSITION, AND "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).
- 5. STREETS MUST BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- 6. DUST MUST BE ADEQUATELY CONTROLLED.
- 7. SEE SWPPP FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
- 8. SEE UTILITY PLANS FOR WATER, STORM AND SANITARY SEWER INFORMATION.
- 9. SEE SITE PLAN FOR CURB AND BITUMINOUS TAPER LOCATIONS.

 10. SEE LANDSCAPE PLAN FOR FINAL SITE STABILIZATION.



BLAINE, M

2025 105th AVENUE N



PLANNING CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369 763.424.5505

CADD QUALIFICATION

CADO, File prepared by the Considers for this project instruments of the Consister profession services for use with inspect to this project. These CACO File that not be used to project, the address to the project of the consisters approximate to Social Consisters approximate to Social Copies and Consisters approximate to Social Copies of the CADO drawing File Information and reference only. All internation of uniform reviews address or orienters to these CADO files when the services address or orienters to these CADO files when the services address or orienters to these CADO files when the services address or orienters to these CADO files when the services address or orienters to these CADO files when the services address or orienters to the Profession or orienters to the Profession of CaDO files when the services address the services and consistency and the services and consistency and the services are services and the service

SUBMITTAL/REVISION 03-11-16 CITY SUBMITT

PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report prepared by me or under my direct supervision and I am a duly Licensed Professional Engineer under

Nicholas M. Mannnel - PE License No. Date

Loucks Project No. 16034
Project Lead NMM
Drawn By SRT
Checked By NMM
Review Date 03/22/16

	SHEET INDEX
C1-1	EXISTING CONDITIONS
C2-1	SITE PLAN
C3-1	GRADING & DRAINAGE PLAN
C3-2	SWPPP
C3-3	SWPPP
C4-1	UTILITY PLAN
C8-1	CIVIL DETAILS
L1-1	LANDSCAPE PLAN
L2-1	LANDSCAPE DETAILS



BENCHMARK

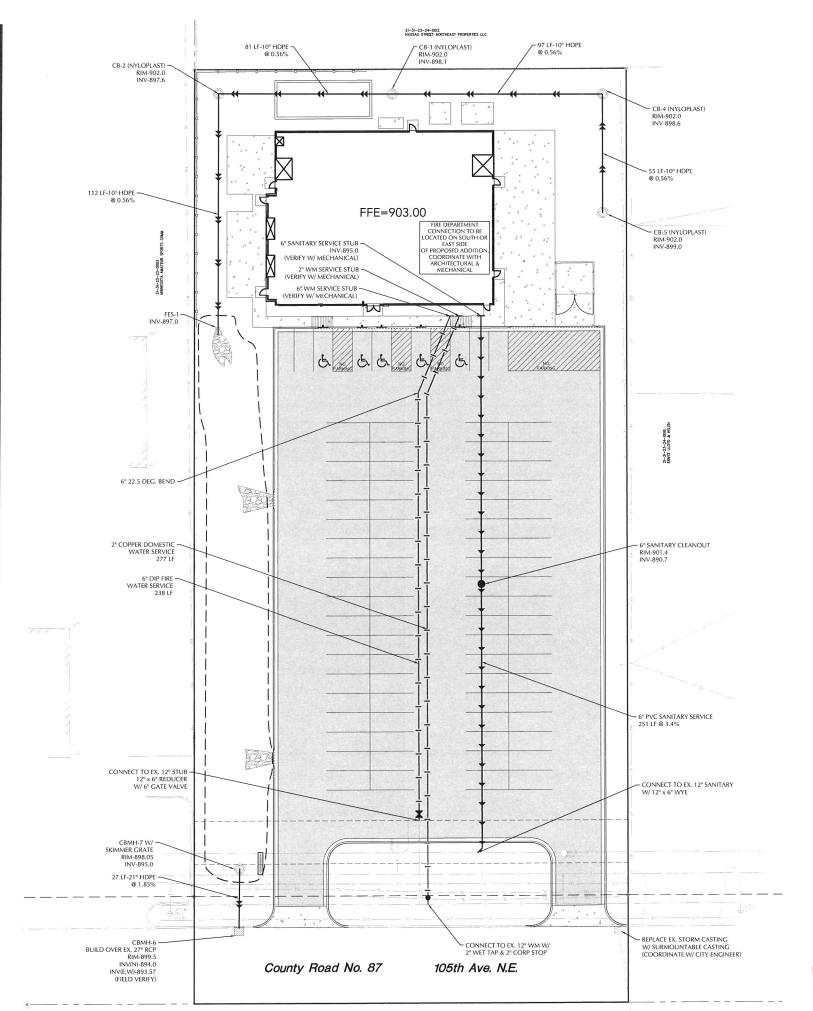
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UTILITY NOTES

CIVIL LEGEND

CULVERT

GATEVALVE

LIGHT POLE

POWER POLE SIGN

SOIL BORINGS

WATER MANHOLE TELEPHONE MANHOLE

UTILITY MANHOLE

WATER SERVICE

SANITARY SERVICE HANDICAP PARKING

DIRECTION OF FLOW

SPOT ELEVATION

CONTOURS SANITARY SEWER STORM SEWER

WATERMAIN FORCEMAIN

DRAINTILE SILT FENCE

CURB & GUTTER

RETAINING WALL

TREELINE

SETBACK LINE

FENCE LINE UNDERGROUND TELE

UNDERGROUND GAS

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ALL SANITARY SEWER, STORM SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS, THE MINNESOTA PLUMBING CODE, THE LOCAL GOVERNING UNIT. AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), 2013 EDITION.

2. ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION.

3. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE PERFORMED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CITY DEPARTMENT OF ENGINEERING AND BUILDING INSPECTIONS DEPARTMENT AND THE CONSTRUCTION ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK. WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC

4. ALL STORM SEWER , SANITARY SEWER AND WATER SERVICES SHALL TERMINATE 5' FROM THE BUILDING FACE UNLESS OTHERWISE NOTED.

5. A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITES UNLESS OTHERWISE NOTED.

6. ALL NEW WATERMAIN AND SERVICES MUST HAVE A MINIMUM OF 8.0 FEET OF COVER. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM IS "VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. THE CONTRACTOR SHALL RIELD ADJUST WATERMAIN TO AVOID CONFLICTS WITH SANITARY SEWER, STORM SEWER, AND SERVICES AS REQUIRED. INSULATION OF WATER AND SANITARY SEWER LINES SHALL BE PROVIDED WHERE 8.0 FEET MINIMUM DEPTH CAN NOT BE ATTAINED.

7. ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

8. PROPOSED PIPE MATERIALS: WATERMAIN

DIP CLASS 53

SANITARY SEWER PVC SDR 26

2" TO 6" DIAMETER 6" DIAMETER

9. ALL SANITARY SEWER WYES, TEES AND SERVICES SHALL BE 6" PVC SDR 26.

10. ALL PORTIONS OF THE STORM SEWER SYSTEM, INCLUDING CATCH BASINS, LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED ACCORDANCE WITH MINNESOTA RULES, PART 4715.2820

11. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTICHT ISEE MINNESOTA RULES, PART \$715.0700). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER STRUCTURES.

HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES. 12. HIGH-DENSITY POLYETHTLENS (ID.D. G. JOHN JULY 1997).

PART 4715.05-540:

a. PIPES 4.INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.
b. PIPES 12-INCH TO 60-INCH IN SIZE MUST COMPLY WITH ASTM F2306.
c. ALL FITTINGS MUST COMPLY WITH ASTM D3212.
d. WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.



CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

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CADD QUALIFICATION

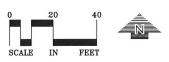
SUBMITTAL/REVISIONS

CITY SUBMITTAL PER CITY COMMENTS

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Drawn By	SRT
Checked By	MMM
Review Date	03/22/16

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LANDSCAPE DETAILS



BENCHMARK .

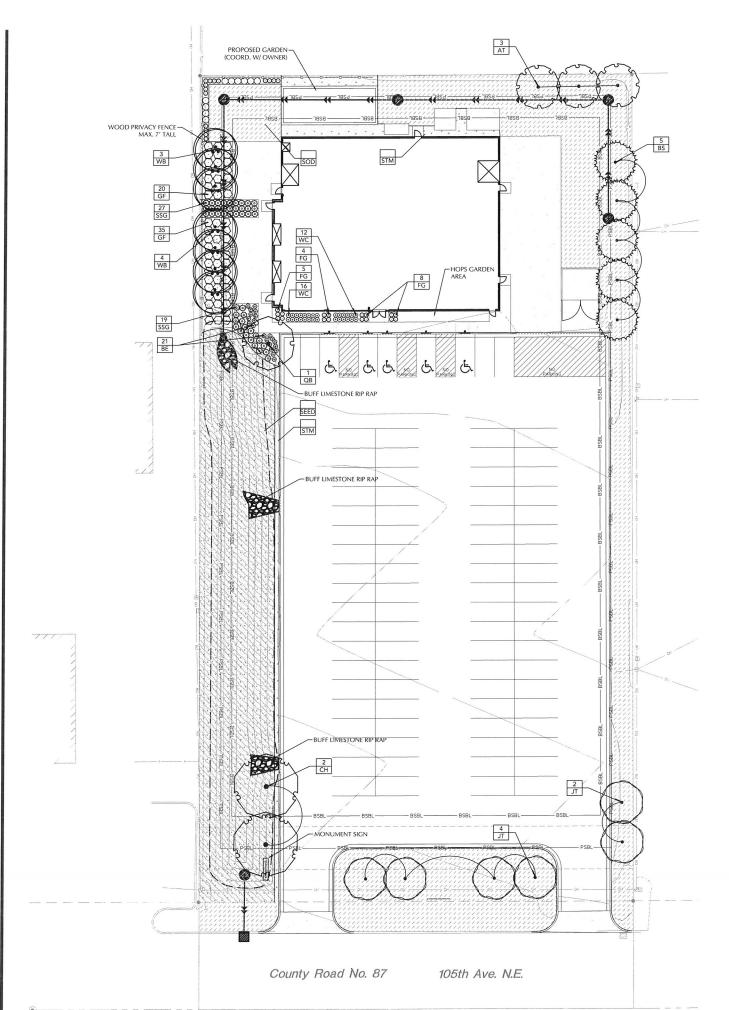
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DECIDUOUS TREES	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	
СН	2	COMMON HACKBERRY	Celtis occidentalis	B & B	2.5 "Cal	
QB	1	SWAMP WHITE OAK	Quercus bicolor	B & B	2.5 "Cal	
WB	7	WHITESPIRE BIRCH CLUMP	Betula populifolia 'Whitespire Sr.'	B & B	8' HGT	
EVERGREEN TREES	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	
BS	5	BLACK HILLS SPRUCE FULL FORM	Picea glauca 'Densata'	B & B	6' HGT	
ORNAMENTAL TREES	Ιστγ	COMMON NAME	BOTANICAL NAME	CONT	ISIZE	
AT	3	APPLE TREE	Malus x	B & B	1.5"Cal	
JT	6	JAPANESE TREE LILAC	Syringa reticulata	B&B	1.5 "Cal	
	-		[-)g	1	1.10	
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
DH	10	DWARF BUSH HONEYSUCKLE	Diervilla Ionicera	5 gal	18" HGT	36" o.c.
GF	55	GRO-LOW FRAGRANT SUMAC	Rhus aromatica `Gro-Low`	5 gal	24" SPRD	48° o.c.
GRASSES	Ιατγ	COMMON NAME	BOTANICAL NAME	Тмін сонт	MIN SIZE	SPACING
FG	32	FEATHER REED GRASS	Calamagrostis x acutiflora 'Karl Foerster'	1 gal	THE TOTAL CONTRACT OF	24" o.c.
SSG	46	SHENANDOAH SWITCH GRASS	Panicum virgatum `Shenendoah`	1 gal		36" o.c.
			•			
PERENNIALS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
BE	21	BLACK EYED SUSAN	Rudbeckia fulgida 'Goldstrum'	1 gal		24" o.c.
WC	28	WALKERS LOW CATMINT	Nepeta x faassenii 'Walkers Low'	1 gal		24" o.c.
GROUND COVERS	CODE	COMMON NAME	BOTANICAL NAME			T
	SEED	NATIVE SEED				
	STM	STONE MULCH 1.5" BUFF LIMESTONE ROCK - 3" MINIMUM DEPTH OVER FILTER FABRIC				
	SOD	TURF SOD				

TREE PRESERVATION REQUIREMENTS

NO EXISTING TREES ARE LOCATED ON SITE THEREFORE THERE IS NO REQUIREMENT FOR TREE REPLACEMENT.

TOTAL CALIPER INCHES REQUIRED = 0"

TREE PLANTING REQUIREMENTS

BUILDING SF = 8,000SF SITE PERIMETER = 1.170LF

1 OVERSTORY TREE PER 2,000SF OF BUILDING - 4 REQUIRED OR 1 PER 100LF OF SITE PERIMETER - 12 REQUIRED 15% REDUCTION FOR I-2 ZONING DISTRICT - 10 REQUIRED OVERSTORY TREES PROVIDED = 10

1 CONIFEROUS TREE PER 2,000SF OF BUILDING - 4 REQUIRED OR 1 PER 2001F OF SITE PERIMETER - 6 REQUIRED 15% REDUCTION FOR 1-2 ZONING DISTRICT - 5 REQUIRED CONIFEROUS TREES PROVIDED = 5

1 SHRUB PER 300SF OF BUILDING - 27 REQUIRED
OR 1 PER 30LF OF SITE PERIMETER - 39 REQUIRED
15% REDUCTION FOR 1-2 ZONING DISTRICT - 33 REQUIRED
SHRUBS PROVIDED = 65

1 ORNAMENTAL TREE PER 2,000SF OF BUILDING - 4 REQUIRED OR 1 PER 2001F OF SITE PERIMETER - 6 REQUIRED 15% REDUCTION FOR 1-2 ZONING DISTRICT - 5 REQUIRED ORNAMENTAL TREES PROVIDED = 9

GENERAL NOTES

CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID. HE SHALL INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.

VERIFY LAYOUT AND ANY DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT.

ASSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK OR MATERIALS SUPPLIED.

CONTRACTOR SHALL PROTECT ALL EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING PLANTING OPERATIONS. ANY DAMAGE TO SAME SHALL BE REPAIRED AT NO COST TO THE OWNER.

CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF ALL UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION / MATERIAL INSTALLATION BEGINS (MINIMUM 10' - 0" CLEARANCE).

ALL UNDERGROUND UTILITIES SHALL BE LAID SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF ANY EXISTING TREES TO REMAIN.

EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER EXISTING ELEMENTS BASED UPON INFORMATION SUPPLIED TO LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.

THE ALIGNMENT AND GRADES OF THE PROPOSED WALKS, TRAILS AND/OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. ANY CHANGE IN ALIGNMENT MUST BE APPROVED BY LANDSCAPE ARCHITECT.



INVICTI BREWING, LI 2025 105th AVENUE I



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CADD QUALIFICATION

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03-11-16 CITY SUBMITT

03-11-16 CTT SOBMITTAL 03-22-16 PER CITY COMMENTS 03-24-16 PER CITY COMMENTS

PROFESSIONAL SIGNATU

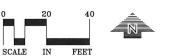
I hereby certify that this plan, specification or repo prepared by me or under my direct supervision an I am a duly Licensed Professional Engineer und

Nicholas M. Mannnel - PE License No. 4

	Control of the Contro
Loucks Project No.	1603
Project Lead	NM
Drawn By	SF
Checked By	NM
Review Date	03/22/1

C1-1	EXISTING CONDITION
C2-1	SITE PLA
C3-1	GRADING & DRAINAGE PLAI
C3-2	SWPP
C3-3	SWPP
C4-1	UTILITY PLAI
C8-1	CIVIL DETAIL

LANDSCAPE DETAILS



BENCHMARK ===

TOP NUT HYDRANT LOCATED NEAR THE SOUTHWEST OF THE PROPERTY ELEVATION=902.80 FEET (NGVD 1929)

LANDSCAPE PLAN L1-1



PERSPECTIVE RENDERING

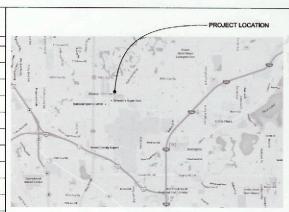
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OWNER
INVICTUS BREWING COMPANY
11981 MIDWAY ST. NE
BLAINE, MN 55449
PHONE NUMBER (612) 723-4090
CONTACT: PREVIN SOLBERG ARCHITECT
MICHAEL J. WILKUS A.I.A.
15 NINTH AVENUE NORTH
HOPKINS, MINNESOTA, 55343
PHONE NUMBER (952) 941-86
FAX NUMBER (952) 941-875
CONTACT: KEVIN GREEN CIVIL ENGINEER / LANDSCAPE ARCHITECT LOUCKS INC.
7200 HEMLOCK LANE, SUITE 300
MAPLE GROVE, MN 55369
PHONE NUMBER (763) 496-6757
CONTACT: NICK MANNEL

REV. # SHEET SHEET TITLE A0.0 Cover Sheet ALTA CIVIL SITE SURVEY C2-1 CIVIL SITE PLAN C3-1 GRADING & DRAINAGE PLAN C4-1 SITE UTILITY PLAN A3.0 Proposed Exterior Elevations L1-1 LANDSCAPE PLAN L2-1 LANDSCAPE DETAILS

SHEET INDEX



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15 Ninth Avenue North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com



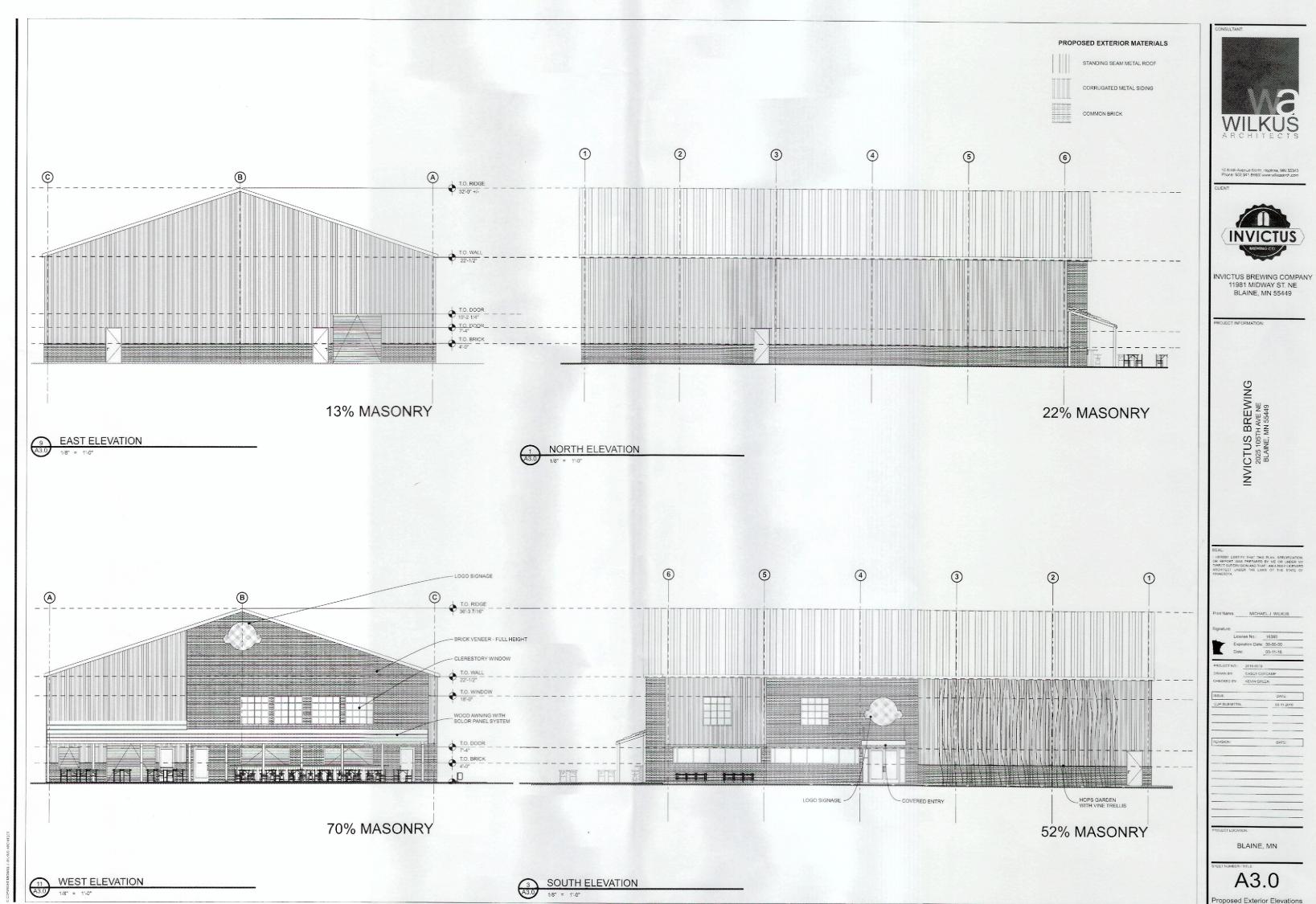
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INVICTUS BREWING 2025 105TH AVE NE BLAINE, MN 55499

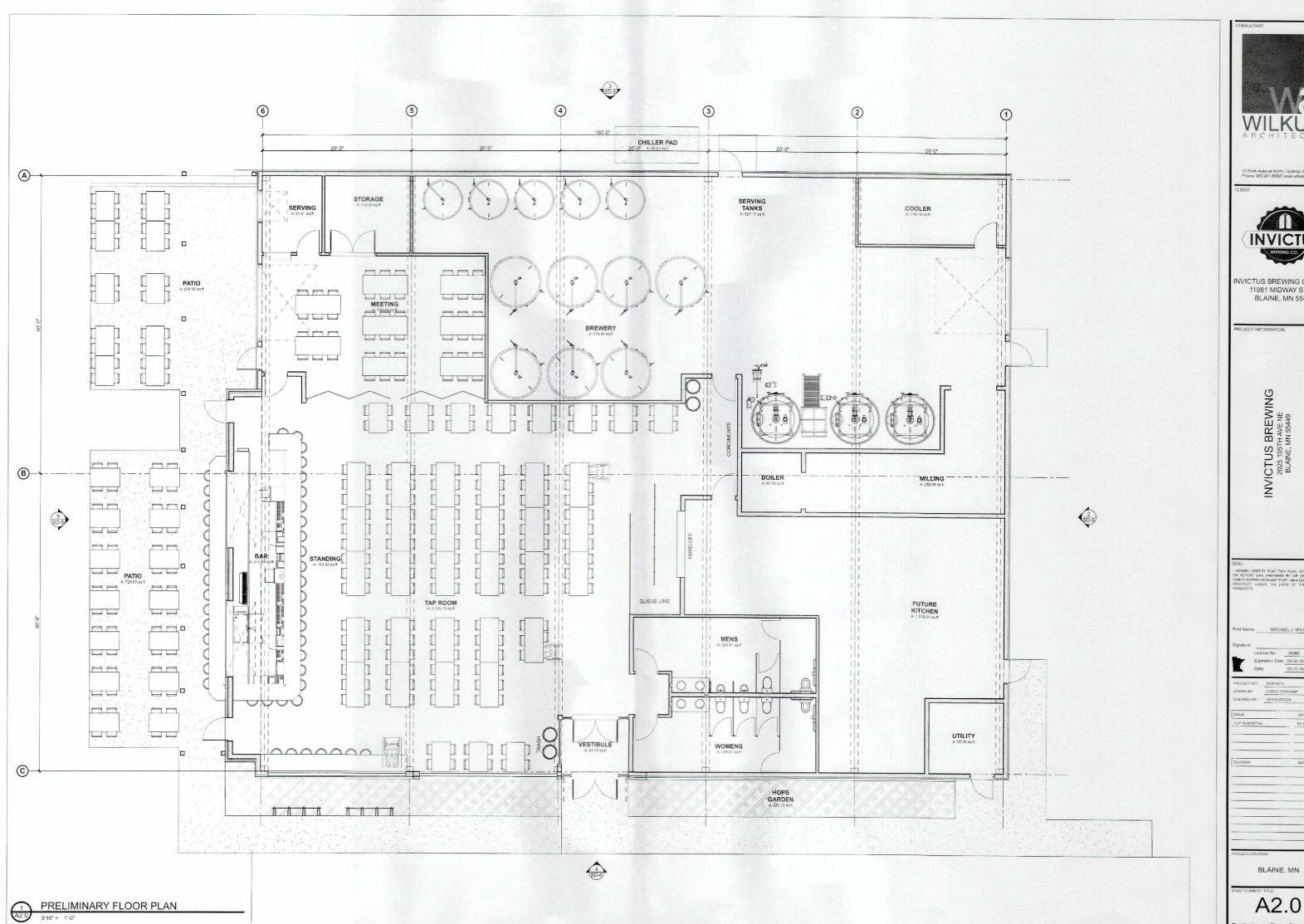
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CITY OF BLAINE PLANNING DEPT.







15 Ninth Avenue North, Hopkins, Mit \$6343 Phone: 952,941,8560/ www.wikusarch.com



INVICTUS BREWING COMPANY 11981 MIDWAY ST. NE BLAINE, MN 55449

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