# CITY OF WEST DES MOINES STAFF REPORT COMMUNICATION

Meeting Date: December 27, 2023

ITEM: Microsoft DSM 42, 11100 Booneville Road – Approve Major Modification to Site Plan to allow construction of a data center building – Microsoft Corporation – MaM-006237-2023

Resolution: Approval of Major Modification to Site Plan

**Background:** Ryan Hardisty with Civil Design Advantage, on behalf of the applicant and property owner, Microsoft Corporation, requests approval of the Major Modification to Site Plan for the approximately 153-acre property located at 11100 Booneville Road. The applicant proposes to construct an approximately 245,000 square foot data center building with associated parking lot.

# **Staff Review & Comment:**

- Financial Impact: As a part of a development agreement approved by City Council on April 19, 2021, for this site. The City will undertake the following proposed public use improvements:
  - Reconstruction of Booneville Road from S. 100<sup>th</sup> Street to S. 115<sup>th</sup> Street; and
  - Construction of S. Grand Prairie Parkway from Mills Civic Parkway to Raccoon River Drive;
     and
  - Extension of Grand Avenue from S. 88th Street to S. 115th; and
  - Extension of approximately one mile of Grand Avenue Trail from S. Grand Prairie Pkwy to the west boundary of the Urban Renewal Area.

The proposed street improvements will include the installation of the associated utilities, streetlights and sidewalks.

# Key Development Aspects.

- 1. Parking Lot Landscaping: The applicant is proposing to only plant shrubs within the landscape islands in the parking lot instead of the required trees and reduce the number of landscape islands due to security concerns. Also, the applicant is proposing to install gravel in areas around the parking lot and buildings where access to utility structures for maintenance purposes is necessary instead of planting grass. Grass will be planted between the main north/south access road and the parking lot. This was discussed with the Development & Planning Subcommittee as part of the requested approval of DSM 41 and was a compromise between the operational concerns and the code required landscaping (see Development & Planning Subcommittee bullet below). The City Council supported this approach as part of the site plan approval of DSM 41, which is the building directly north of this proposed data center building. The applicant has placed the required parking lot trees in the buffer areas surrounding the site. The areas of gravel in lieu of vegetation around the building's utility structures are screened from public view by the landscape buffer around the site. Staff believes these changes proposed to the landscaping on the site plan meet the intent of the code and are a reasonable accommodation for the specific operational requirements of this project. Recommended conditions of approval that these alternative methods be approved by the City Council have been added.
- <u>Traffic Impact Study Findings</u>: No traffic study was required of this Major Modification to Site Plan since a traffic study was already completed for this entire site, including the proposed building. Any modifications to surrounding streets required of the traffic study have been completed.

- <u>Development & Planning Subcommittee</u>: On December 19, 2022, the Development & Planning City Council Subcommittee discussed the use of gravel in and around the proposed parking lot and the omission of trees within the landscape islands in the parking lot for this site. The Subcommittee members were supportive of allowing shrubs to replace trees in the parking area in light of security concerns as presented by Microsoft's representative, waiving required landscape islands in the parking areas, and allowing partial use of gravel or paving near utilities for maintenance purposes while requiring the incorporation of vegetation to comply with code for the bulk of the landscaped areas adjacent to parking lots and any area visible from the perimeter of the site.
- <u>Vesting of Entitlement</u>: Per City Code, entitlement (approval to construct or implement) shall remain
  in effect so long as substantial site work has progressed beyond grading and completion of
  structural foundations and twenty-five percent (25%) of the total building area has occurred above
  grade within twenty-four (24) months of the effective date of the approval, unless a greater time
  period is authorized at time of the original entitlement, or by approval of an extension of the original
  entitlement. It is the responsibility of the developer to be aware of this deadline and request an
  extension of the approval <u>prior to</u> the expiration date.

Outstanding Issues: There are no outstanding issues.

Planning and Zoning Commission Action:
Date: December 27, 2023

Vote:

Recommendation:

**Recommendation**: Approve the Major Modification to Site Plan request, subject to the applicant meeting all City Code requirements, and the following conditions of approval:

- 1. The City Council agreeing to not require landscape islands in the parking lot as required by City Code due to security concerns with trees in the parking lot. Required parking lot trees shall be added to the buffer plantings.
- 2. The City Council allowing shrubs in lieu of trees to be planted within parking lot islands due to security concerns with trees in the parking lot. Required parking lot trees shall be added to the buffer plantings.
- 3. The City Council allowing gravel to be implemented around industrial buildings on the site to allow access to utility structures for maintenance purposes.

Lead Staff Member: Brian Portz

Approval Meeting Dates:

Planning and Zoning Commission	December 27, 2023
City Council	

**Staff Report Reviews:** 

Planning & Zoning Commission	<ul><li>☑ Development Coordinator (or)</li><li>☑ Director</li></ul>	⊠ Legal Department
City Council	□ Director	□ Legal Department
	□ Appropriations/Finance	☐ Agenda Acceptance

Publications (if applicable)

Published	Des Moines Register
In:	Community Section
Date(s)	n/a
Published	TI/a
Date(s) of	
Mailed	n/a
Notices	

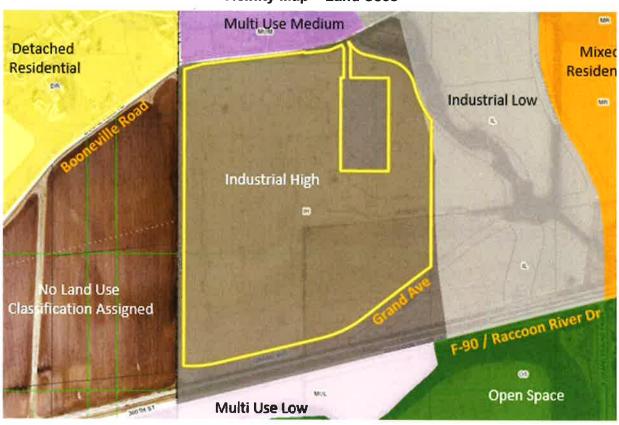
Council Subcommittee Review (if applicable)

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	Subcommittee	Development & Planning		
	Date Reviewed	December 2023	er 19, 2022	& November 20,
	Recommendation	⊠ Yes	□ No	□ Split

# **Location Map**

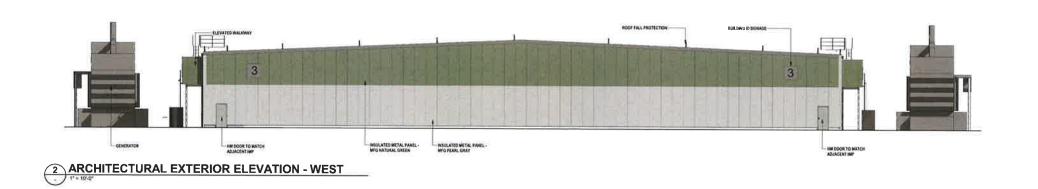


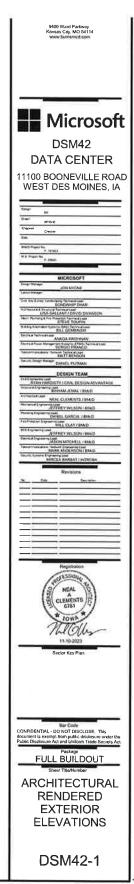
# Vicinity Map - Land Uses



# PLANS INCLUDED ARE FOR ILLUSTRATIVE PURPOSES ONLY – APPROVED PLANS ON FILE WITH THE CITY











9400 Ward Parkway Kansas City, MO 64114 www.burnsmcd.com



DSM42 DATA CENTER

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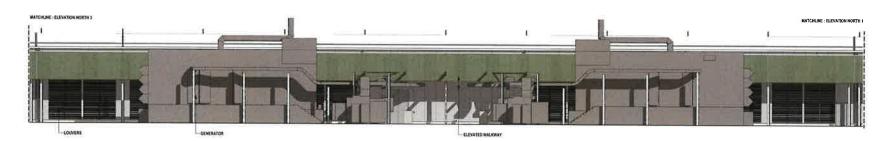
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ARCHITECTURAL RENDERED EXTERIOR ELEVATIONS

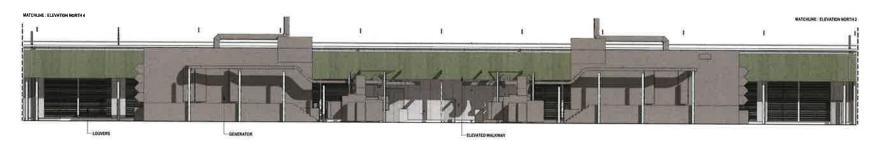
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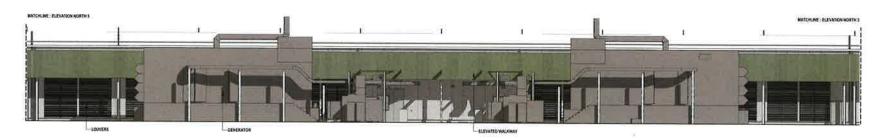
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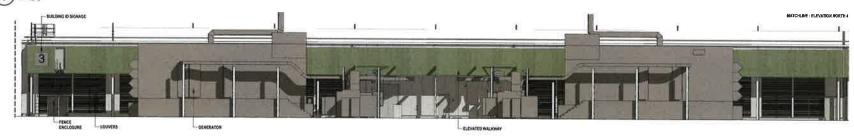
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3 ARCHITECTURAL EXTERIOR ELEVATIONS - NORTH 3



4 ARCHITECTURAL EXTERIOR ELEVATIONS - NORTH 4



5 ARCHITECTURAL EXTERIOR ELEVATIONS - NORTH 5

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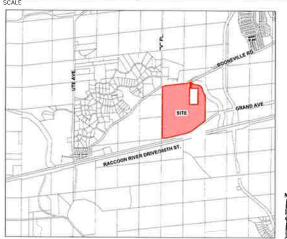
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FULL BUILDOUT

ARCHITECTURAL RENDERED EXTERIOR ELEVATIONS

DSM42-3

# VICINITY MAP



# Microsoft

# **DSM42 DATA CENTER** SITE PLAN

## OWNER/APPLICANT

# CONSULTANTS

CIVIL DESIGN ADVANTAGE, LLC 4121 NW URBANDALE DRIVE URBANDALE, IA 50322 PH. (515) 369-4400 CONTACT: RYAN HARDISTY

GEOTECHN'CAL

TERRACON CONSULTANTS INC. 1523 S. BELL AVENUE, SUITE 104 AMES, IOWA 50010 PH: (515) 232-0950 CONTACT: CASH STURGEON

# GOVERNING AGENCIES

REVIEW AGENCY:

FIRE DISTRICT

CITY OF WEST DES MOINES (WDM) 3421 ASHWORTH ROAD WEST DES MOINES, IA 50265 PHI. (515) 222-3420 CONTACT: MIKE WHITSELL

# UTILITIES

WEST DES MOINES WATER WORKS (WDMWW) 1505 RAILROAD AVENUE WEST DES MOINES, IA 50265 PH: (515) 222—3510 CONTACT: WILLIAM MABUCE, P.E.

SANITARY SEWER:

CITY OF WEST DES MOINES (WDM) 560 SOUTH 16TH STREET WEST DES MOINES, IA 50265 PH. (515) 222-3480 CONTACT: CLINI CARPENTER

# BENCHMARKS

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# LEGAL DESCRIPTION

LOT 1, GINGER WEST PLAT 1, AN OFFICIAL PLAT IN THE CITY OF WEST DES MOINES, DALLAS COUNTY, IOWA, AND CONTAINING 153.06 ACRES (6,667,355 S.F.)

- SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SPECIFICATIONS AND THE CURRENT CITY OF WEST DES MOINES STANDARD SPECIFICATIONS FOR SUBDIVISIONS AND ADDENDUMS.
- 2 THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EMISTING CONDITIONS. THIS PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY, THE CONTRACTOR IS RESPONSIBLE FOR VERENING FIELD CONDITIONS PROFIT OF BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONTILIETS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PROPE TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH MODILD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, MITHOUT EXCEPTION, HE SHALL HAVE MADE, AT THIS/HER OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A RECISIERED LAND SURVEY AND SURVEY IT TO THE OWNER FOR REVEW.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELED ON AS BENCE EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR HOS ELECANTE. ALL EASING UTILITIES WHICH COMPLET WITH THE PROPOSED MIPROVEMENTS SHOWN OF THESE PLANS.

- 6 ALL SECURITY GATES SHALL HAVE THEIR LOCKS AND SEQUENCE OF EVENTS TO OPEN THEM APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION.

# CITY OF WEST DES MOINES DATUM CONVERSION

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# SITE DATA

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WEST: EXISTING LAND USE AGRICULTURE
EXISTING ZONING
COMPREHENSIVE PLAN DESIGNATION SINGLE FAMILY RESIDENTIAL

# PARKING SUMMARY

MICROSOFT REQUIRED PARKING = 1.2 STALLS PER MW PLUS 1 SECURITY VEHICLE STALL

48 MW BUILDING X 1.2 STALL/MW + 1 SECURITY STALL = 59 STALLS

LEED CREDIT REDUCED PARKING FOOTPRINT:

ITE TRIP GENERATION MANUAL DATA CENTER REQUIRED PARKING = 0.99 STALLS PER 1000 SF 245,000 SF BUILDING X 0.99 STALLS/1000 SF  $\approx$  243 STALLS REQUIRED PARKING REDUCTION = 75.7%

# SITE AREA DATA

IMPERVIOUS PERVIOUS 5D 15 ACRES (2 184,534 SF) (32 76%) 102 91 ACRES (4,482 821 SF) (67 24%) 63 22 ACRES (2,753,837 SF) (41,30%) 89 84 ACRES (3,913,518 SF) (58,70%) 153 06 ACRES (6,667,355 SF) OPEN SPACE AREA: REQUIRED 30.61 ACRES (1.333.459 SF) (20.00%) 89.84 ACRES (3,913,518 SF) (58.70%)

# UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR MAKES NO QUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

# SHEET INDEX

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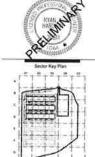
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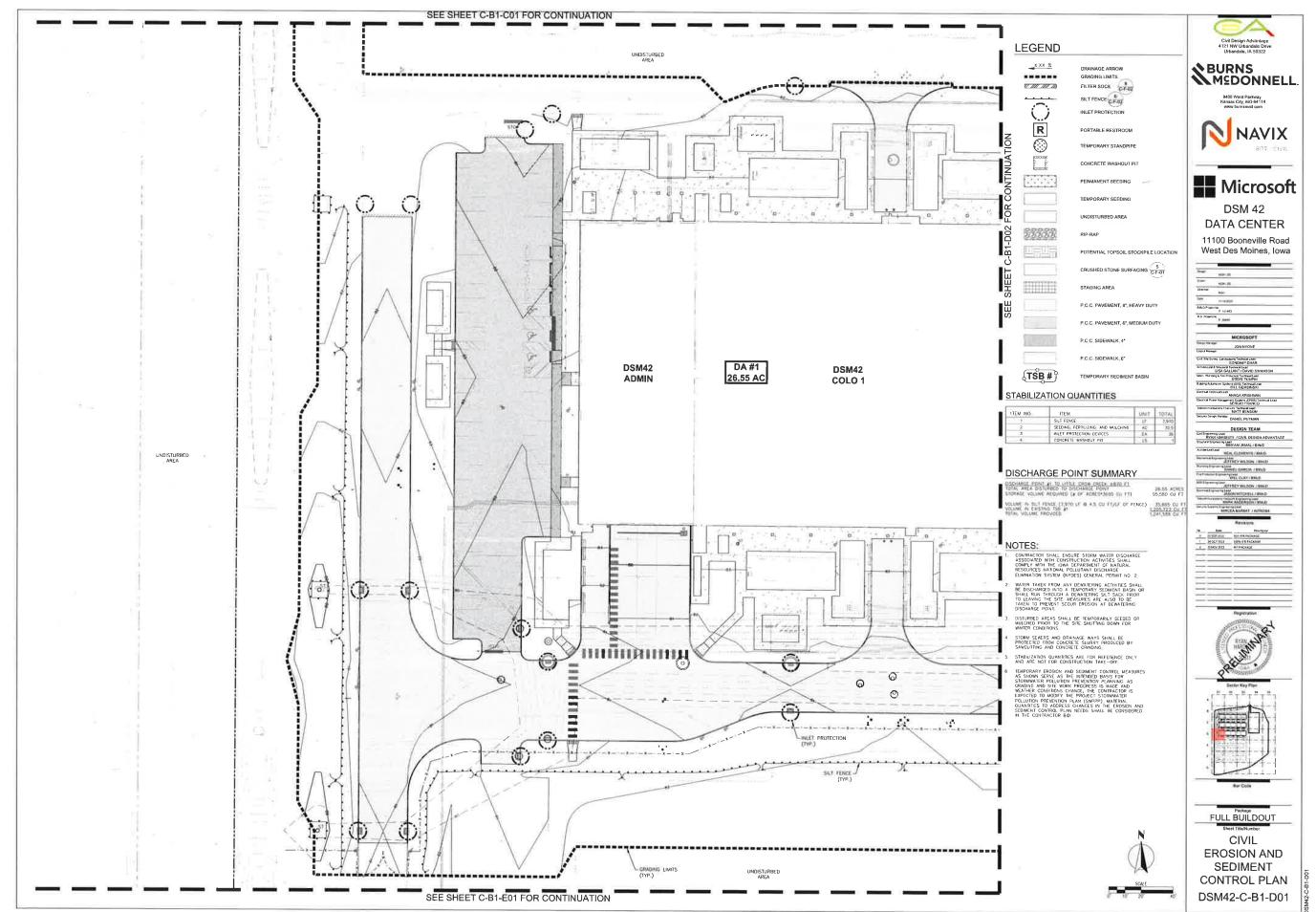
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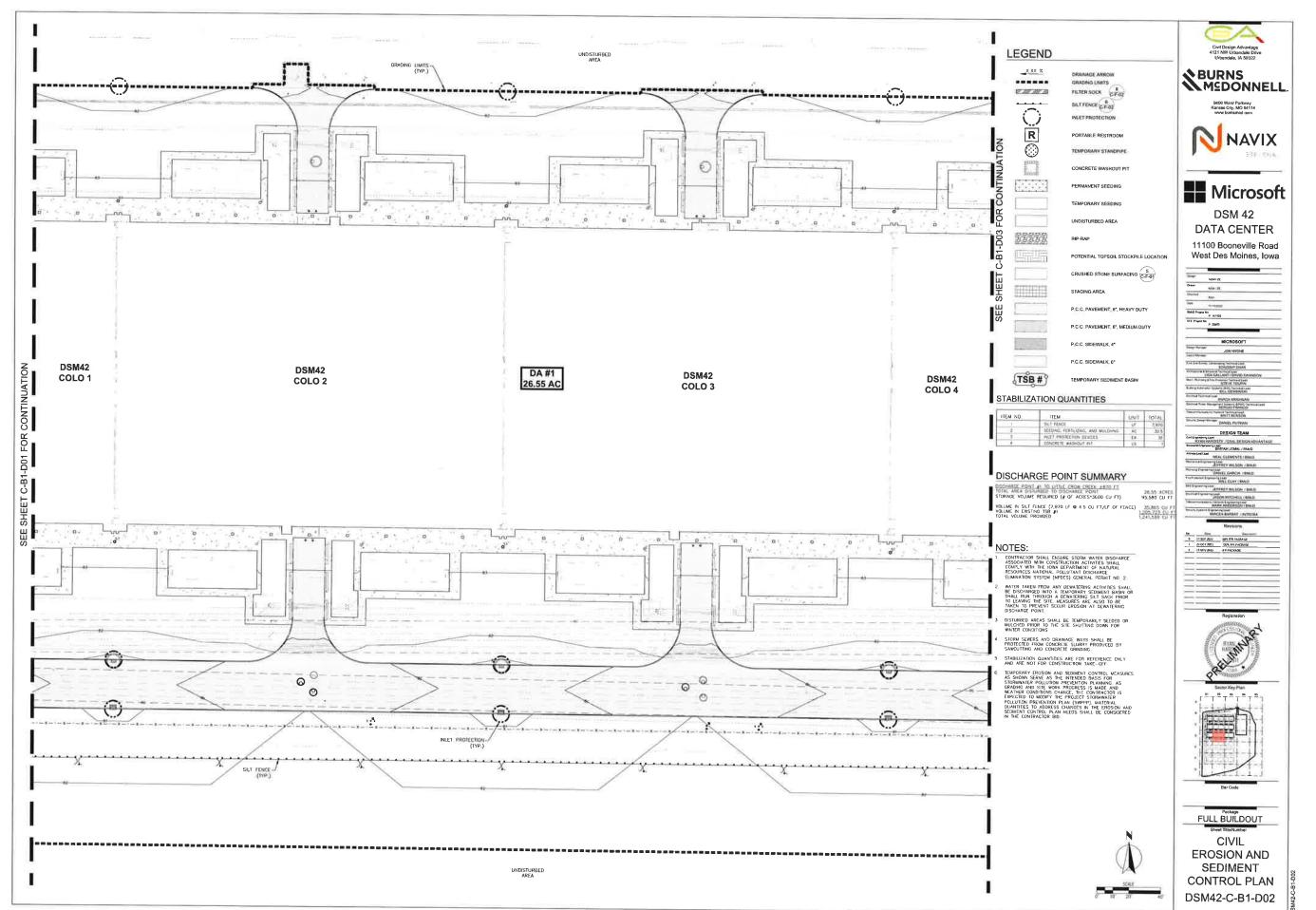


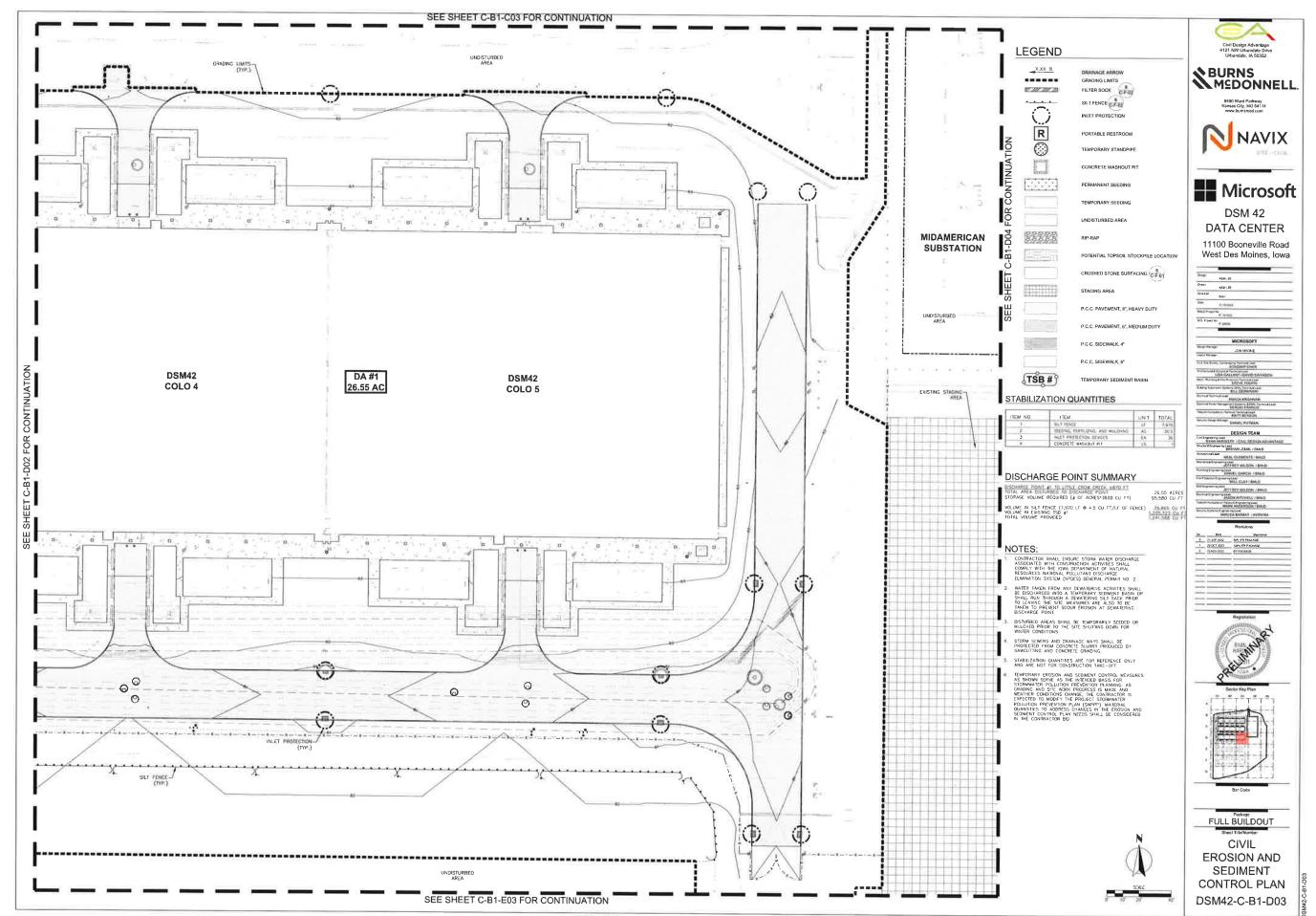
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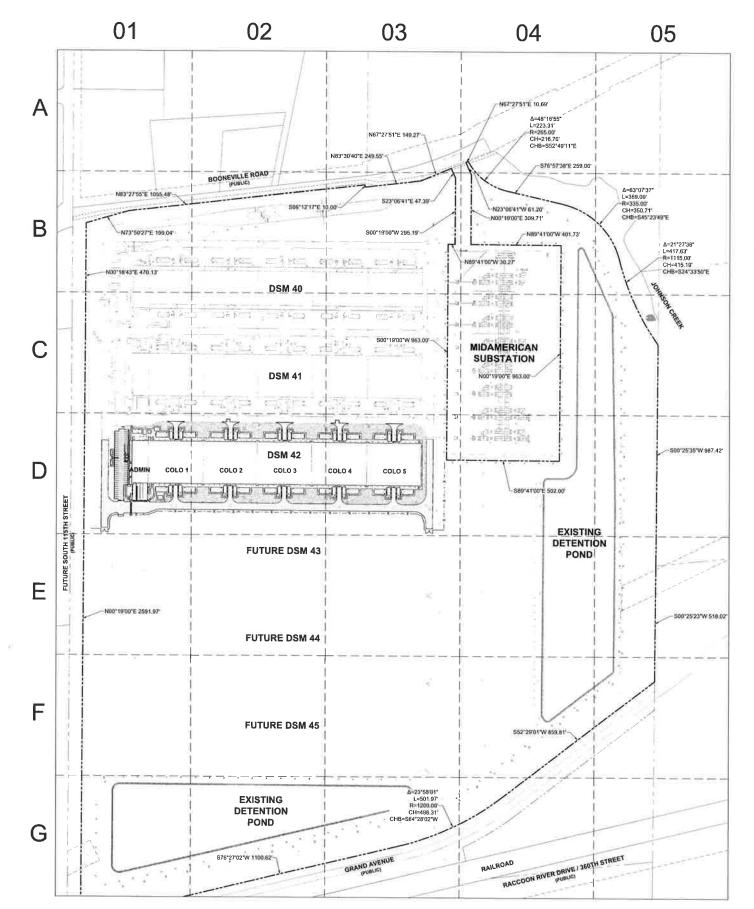
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- COORDINATE FINAL KNOX BOX LOCATIONS WITH MICROSOFT SECURITY AND CITY OF WEST DES MOINES

# CITY OF WEST DES MOINES NOTES

- 1. ALL WATER WORK, PUBLIC OR PRIVATE, SHALL BE DONE IN ACCORDANCE WITH WEST DES MOINES WATER
  WORKS STANDARD SPECIFICATIONS
  2. CONTRACTION PHEST DES MOINES WATER WORKS AT LEAST ONE WEEK PRIOR TO BUILDING
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  ALL CONTROLLED TO THE PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTRACT THE WIDM CONSTRUCTION DISJON CLINIC CARPEMIER (\$15-222-3480) TO OBTAIN APPLICABLE CITY PERMITS THAT MAY BE NECESSARY.





9400 Ward Parkway Kansas Crly, MO 64114 www.bumemed.com





**DSM 42** DATA CENTER

11100 Booneville Road West Des Moines, Iowa

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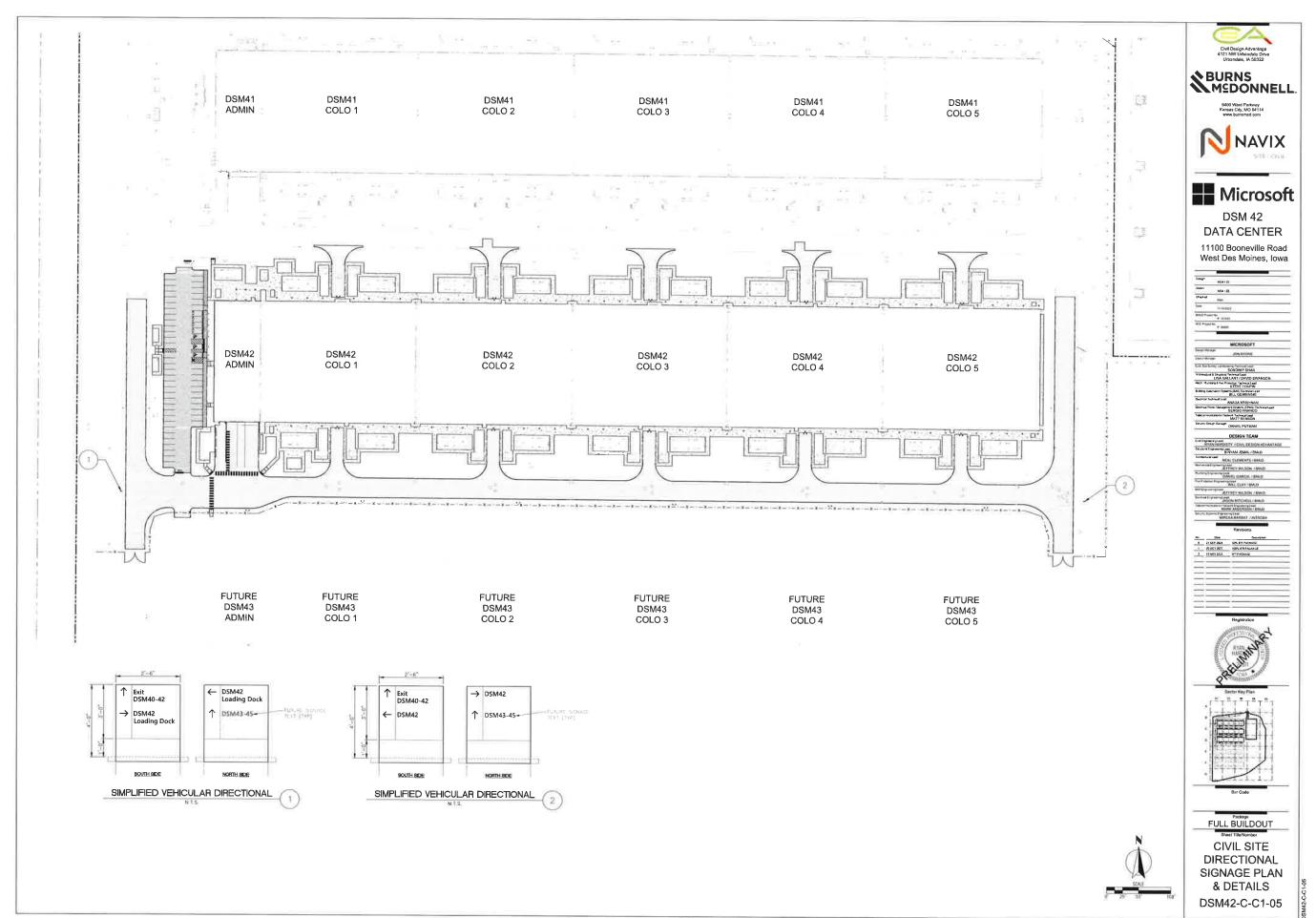


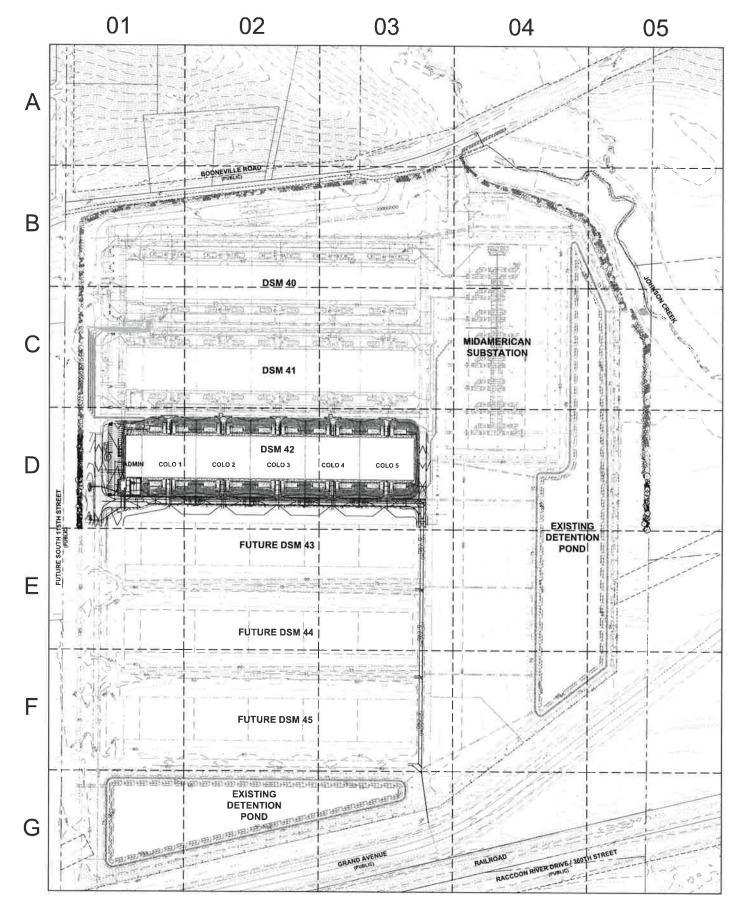
FULL BUILDOUT

CIVIL SITE **IMPROVEMENTS** PLAN OVERALL

DSM42-C-C1-01







# LANDSCAPE TOTALS

TOTAL SITE AREA: =925,094 S.F. (21,23 AC.)

DSM 42 BUFFER REQUIREMENTS

30" BUFFER REQ. PER WOM LANDSCAPE PROVISIONS 9-10-8-E-3-8 I OVERSTORY/EVERGREEN TREE/ 35 LF, 2 UNDERSTORY TREES/ 35 LF, 6 SHRUBS/ 35 LF. 415 LF, of 30' BUFFER

12 OVERSTORY TREES REQUIRED 24 UNDERSTORY TREES REQUIRED 72 SHRUBS REQUIRED

60' BUFFER REQ. PER WOM LANDSCAPE PROVISIONS 8~18-8-E-3-A I OVERSTORY/EVERGREEN TREE/ 35 LF, 3 SHRUBS/ 35 LF.

258 L.F. of 60' BUFFIER

B OVERSTORY TREES REQUIRED 22 SHRVB'S REQUIRED TOTAL BUFFER PROVIDED -

OPEN SPACE REQUIREMENTS

PER WOM LANDSCAPE PROVISIONS 9-18-8-1: 2 TREE & J SHRUBS/ JOOD S.F. WITH 50% AS OVERSTORY/EVERGRI

123 TREES 185 SHRUBS REQUIRED

THE CALCULATIONS ABOVE REPRESENT A COMBINED TOTAL OF OPEN SPACE AND BUFFER PLANTING CONTAINED WITHIN THE 30' AND 60' BUFFERT ON THIS SITE

PARKING LOT LANDSCAPE REQUIREMENTS

PER WON LANDSCAPE PROVISIONS 9-16-8-H MINIOUN OF ONE LANDSCAPED SYST PEANS FER 18 STALLS OF SHIGLE BOY PARKING ONE TREE TRY SYST TAKEN

33 STALLS (1 ISLAND) AND 26 STALLS (1 ISLAND) OF SINGLE ROW PARKING AND TERMINAL ISLANDS (4 ISLANDS) 6 TREES REQUIRED

TOTAL TREES PROVOEDY -

B OVERSTORY/EVERCREEN TREES PROVIDED REQUIRED TREES ARE PROVIDED IN LANDSCAPE BUFFER AND ARE LABELED ON SHEET L-AL-DOI

TOTAL COMBINED LANDSCAPE CALCULATIONS

TOTAL PLANT MATERIAL PROVIDED\*

OVERSTORY/EVERGIEN TIRES:

UNDERSTORY TIREES:

28

POEPIGENOES WILL BE ACCOMODATED IN THE DSM 43–45 LANDSCAPE

# LANDSCAPE NOTES

CONDITION AND SIZE BAB, 6" HDDHT, 50-100" MAY, HEIGHT BAB, 6" HDDHT, 50-80" MAT, HEIGHT

CONDITION AND 52E BAB, 8" HOIGHT, 50-100" MAT. HEIGHT BAB, 4" HOIGHT BAB, 6" HOIGHT, 50-80" MAT, HEIGHT

CONCESSOR AND SIZE

- 2. ALL LANDSCAPE CONSTRUCTION SHALL CONFORM TO THE MOST RECENT EDITION OF THE WEST DES MOINES STANDARDS SPECIFICATIONS FOR SURDIVISIONS
- 3. BACKFILL TO TOP OF CURB, (MINUS 1 1/2" FOR SOD, IF REQ.)
- WEED PREVENTER (PRE-EMERCENT) SHALL BE SPREAD OVER SOIL AFTER PLANTING AND BEFORE MULCHING IN ALL PLANTING BEDS PER MANUFACTURER'S REFORMERINATIONS FOR MINISTRUMENTS.
- 5. PLANT QUANTITIES ARE SHOWN FOR INFORMATION DNLY, THE DRAWING SHALL OUVERN IF ANY CONFLICTS ARISE.
- ALL DEBRIS SPILLED IN ANY PUBLIC R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
- 7. NO OVERSTORY TREES SHALL BE PLANTED IN ANY CITY OF WEST DES MOINES FUBLIC UTILITY EASEMENT.
- 8. ROCK MULCH SHALL BE RIVER ROCK, MINMUM DEPTH OF 3" OVER MIRASCAPE LANDSCAPE FABRIC OR APPROVED EQUAL, EDGING BETWEEN ROCK MULCH AND GRASS SHALL BE 4" STEEL LANDSCAPF FORMS
- 9 MAINTAIN 10' CLEARANCE OF ANY PLANTINGS ON EACH SIDE OF THE PERWETER
- 10 SEED ALL DISTURBED AREAS (LESS PLANTING BEDS) WITH SEED TYPE IT PERMANENT LAWN MIXTURE. REFER TO THE SPECIFICATIONS.



IT OA

SO-COLUMN TON THE SUIT . PARTIE MODE AND PLANTING PIT 2 TIMES BANKER OF CONTAMER CHANGE OF THE PARTY OF

SHRUB PLANTING



Josep Verspe

BURNS MEDONNELL

9400 Ward Parkway Kansas City, MO 64114

NAVIX

**Microsoft** 

DSM 42

DATA CENTER

11100 Booneville Road

DESIGN TEAM DESIGN TEAM
CATErgorening Lead
RYAN HARDISTY / CIVIL DESIGN ADVANTAGE
SPACE WE Engineering Lead
BINNAM JEMAL / BINCO
ACADEMIZE Lead
ACADEMIZE LEAD
ACADEMIZE LEAD 

PALES GARCIA I BIND MCL CLAY I BIND MILLIAN WILLIAM (MAC)





FULL BUILDOUT

LANDSCAPE PLAN OVERALL

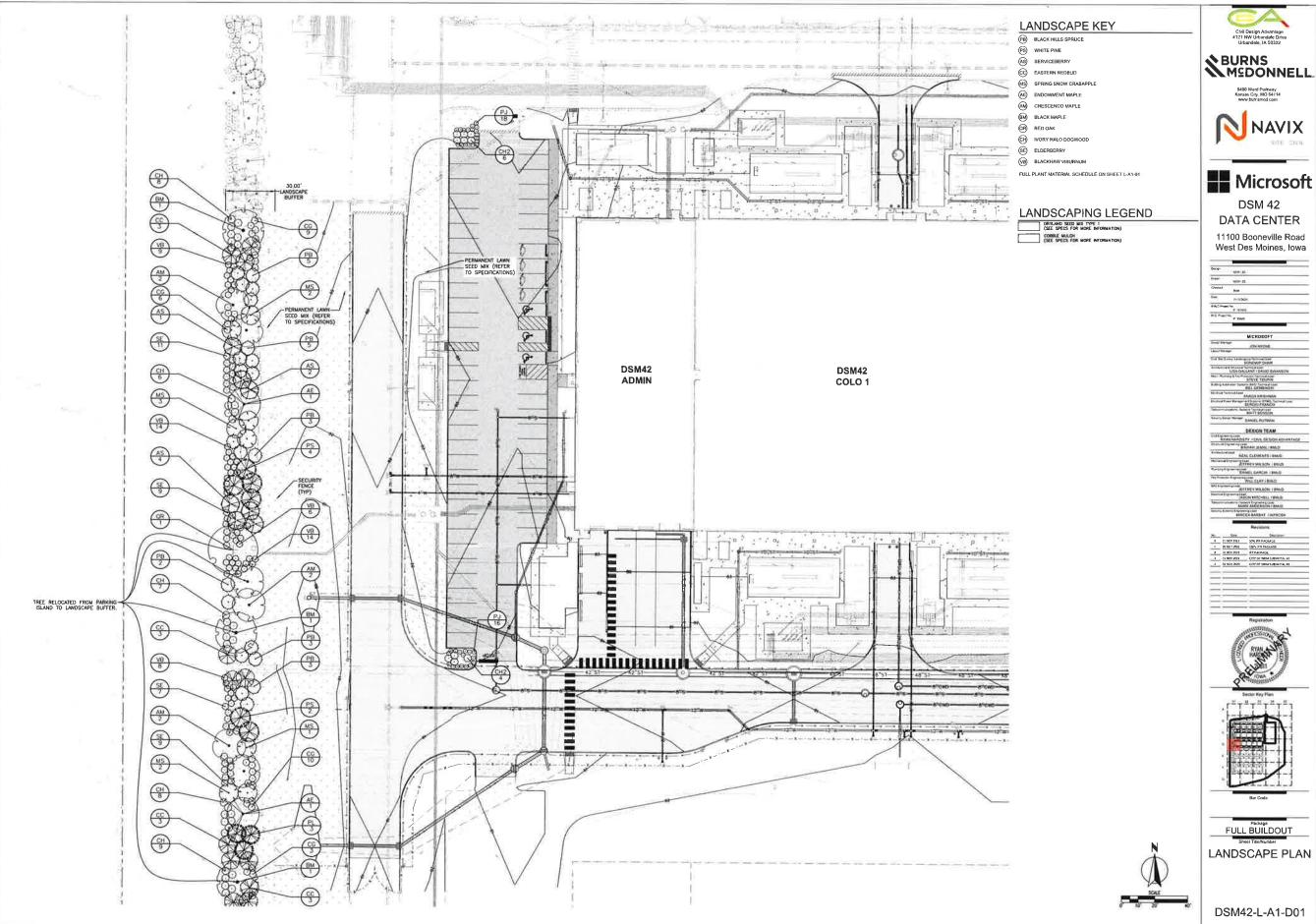
DSM42-L-A1-01

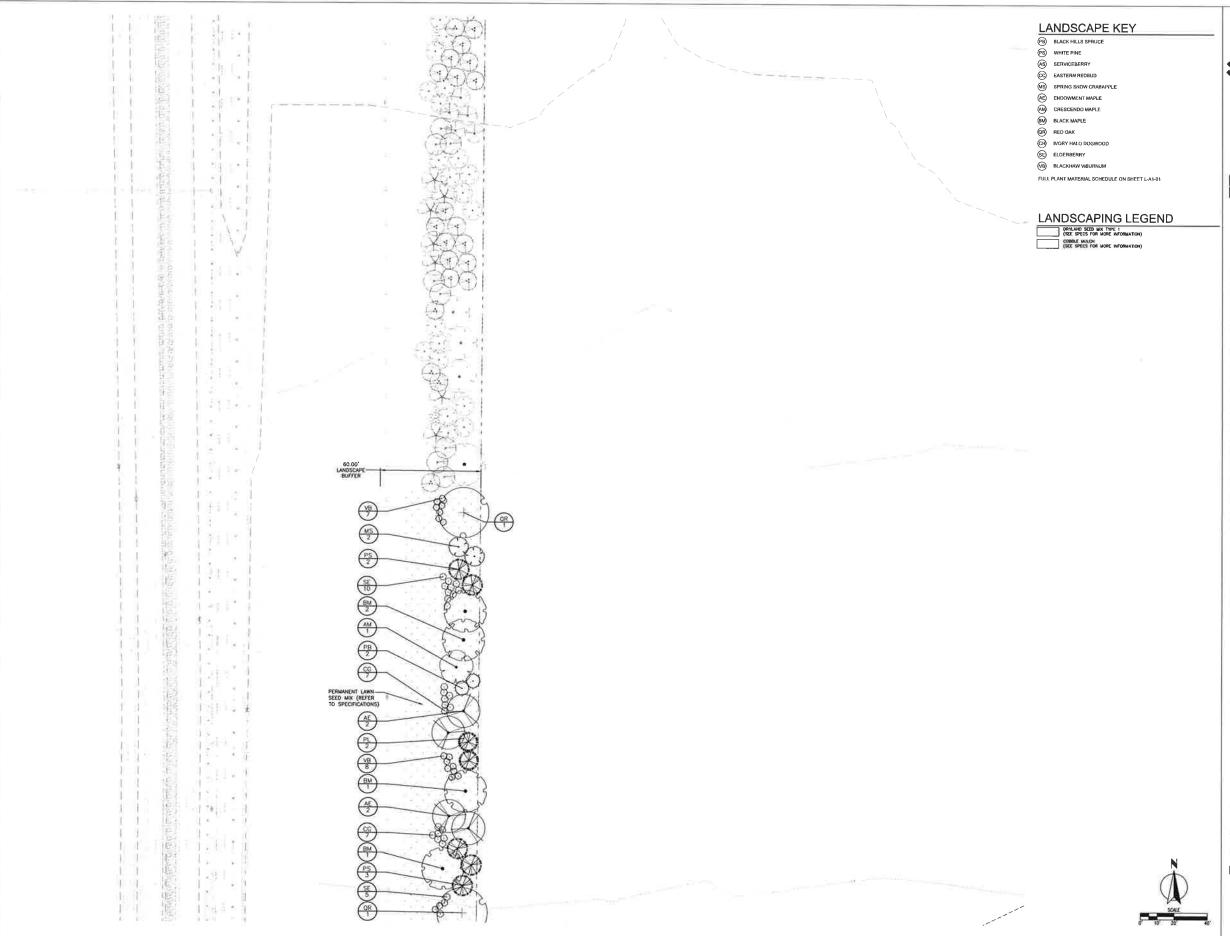
**ROCK MULCH FOR FENCING** STEEL PENCHAL PORT -BLANGUAGHE GAOME -ADOID HAMMERCE NYON-PLACE BOOT BALL DR. UNCOSTABLES SCR. HOTE: ALL MATERIA

NVER ROOK MACH-

UNDISTURBED BOL -MRASCAPE LANGSCAPE FASSE

CONIFEROUS TREE PLANTING











DSM 42 DATA CENTER

11100 Booneville Road West Des Moines, Iowa

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Checked	AAH	
Date	66/9/2023	
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FULL BUILDOUT
Sheel Title/Number

LANDSCAPE PLAN

DSM42-L-A1-D05

# A RESOLUTION OF THE PLANNING AND ZONING COMMISSION

NO. PZC-23-065

WHEREAS, pursuant to the provisions of Title 9, Zoning of the West Des Moines Municipal Code, the applicant and property owner, Microsoft Corporation, request approval of the Major Modification to Site Plan for the approximately 153-acre property located at 11100 Booneville Road as depicted on the location map included in the staff report. The applicant requests approval to construct a 245,000 square foot data center building, and associated site improvements; and

**WHEREAS**, the Major Modification to Site Plan request complies with the findings stated in the applicable provisions of Title 9, the Comprehensive Plan and City Code.

**NOW THEREFORE**, the Planning and Zoning Commission of the City of West Des Moines recommends the City Council approve the Microsoft DSM 42 Major Modification to Site Plan (MaM-006237-2023), subject to compliance with all the conditions of approval as stated in the staff report, including conditions added at the meeting, and attached hereto as Exhibit "A", if applicable.

Andrew Conlin, Chair

PASSED AND ADOPTED on December 27, 2023.

Recording Secretary

	Planning and Zoning Commission
I HEREBY CERTIFY that the for Commission of the City of West Defollowing vote:	regoing resolution was duly adopted by the Planning and Zoning es Moines, lowa, at a regular meeting on December 27, 2023, by the
AYES:	
NAYS:	
ABSTENTIONS:	
ABSENT:	
ATTEST	