

1 inch equals 50 feet



Locator Map Not to Scale

City of Mandan
Morton County, ND

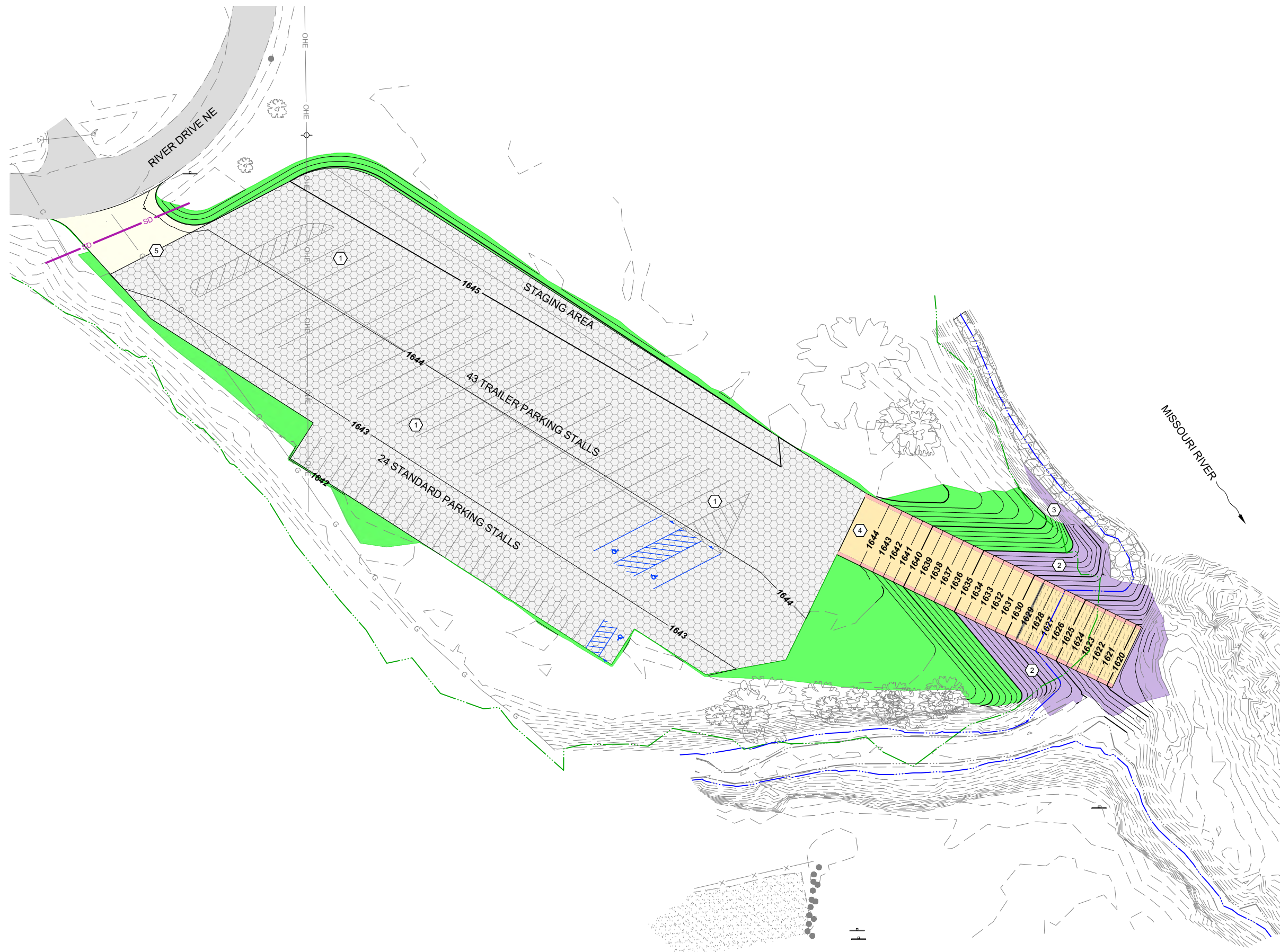
Figure 1
90% DESIGN
MAY 2024

MANDAN PARKS & REC

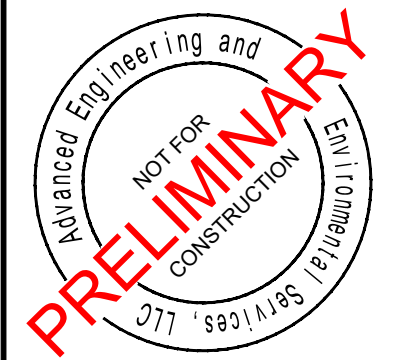
Date: 5/8/2024



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Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



LEGEND

	RIP RAP NDDOT GRADE 1 (ANGULAR)
	RIP RAP 9 INCH D50
	SEEDING
	PAVER
	BITUMINOUS
	CAST IN PLACE CONCRETE
	CONCRETE PUSH SECTION
	DELINEATED WETLAND
	APPROXIMATE NORMAL WATER ELEVATION
	SURVEYED WATER ELEVATION OCTOBER 19, 2023

- CONSTRUCTION NOTES**
- PARKING LOT SURFACE TO UTILIZE TRUEGRID PROPLUS PERMEABLE PAVERS. SEE DETAIL XX.
 - RIP RAP ON 3:1 SLOPES TOWARD BOAT RAMP SHALL BE PLACED SECURELY TO MINIMIZE RISK OF ROCK MOVEMENT. SEE DETAIL XX.
 - ROCK PLACED AGAINST EXISTING RIP RAP SHALL BE PLACED CAUTIOUSLY TO AVOID DISTURBANCE OF EXISTING ROCK. SEE DETAIL XX.
 - CONTRACTOR SHALL ENSURE SMOOTH TRANSITION FROM CONCRETE RAMP TO TOP OF PERMEABLE PAVERS.
 - CONTRACTOR SHALL ENSURE SMOOTH TRANSITION FROM NEW BITUMINOUS TO TOP OF PERMEABLE PAVERS.

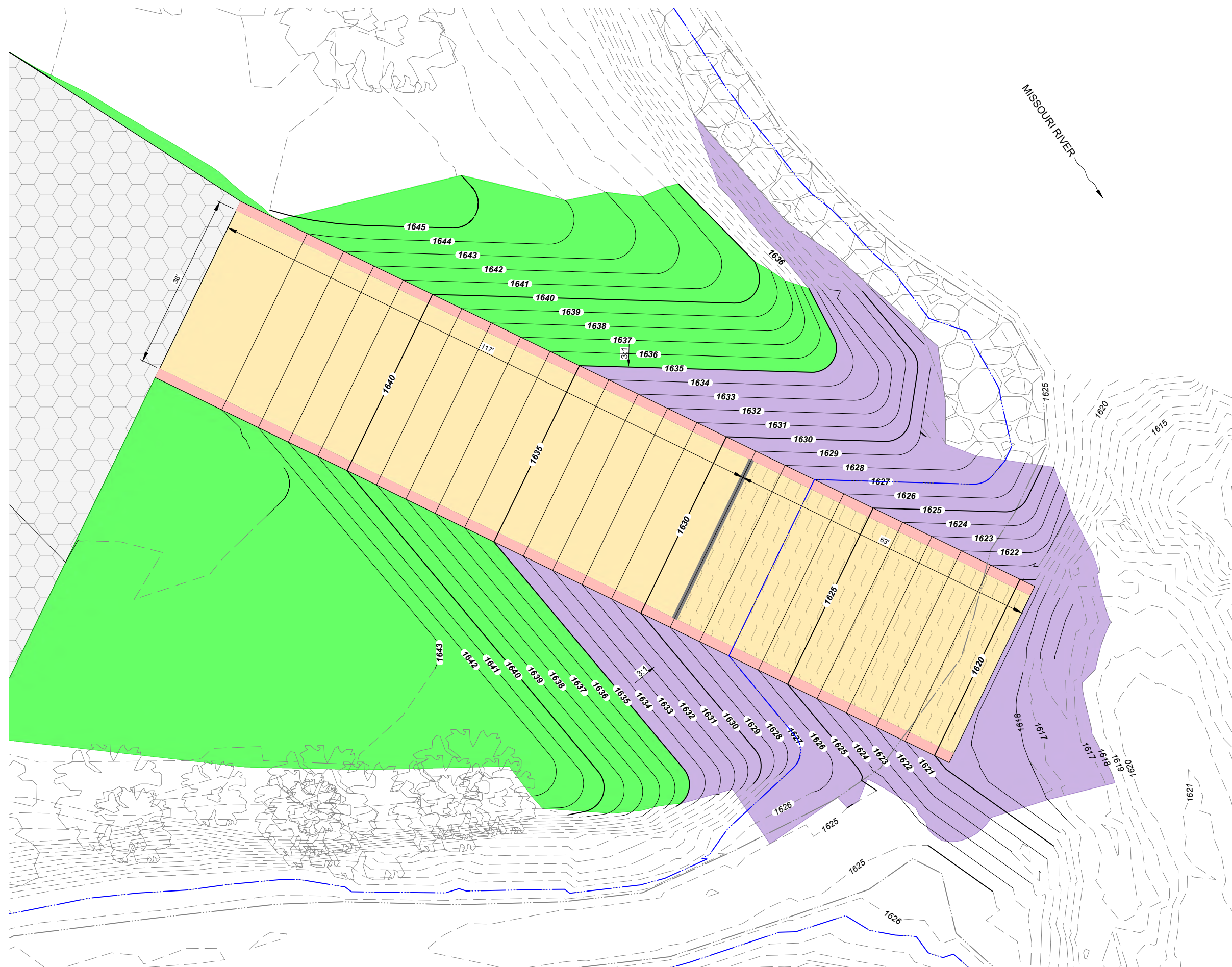
COORDINATE SYSTEM:
NORTH DAKOTA STATE PLANE - SOUTH ZONE - INTERNATIONAL FOOT (NAD83)

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SITE IMPROVEMENTS OVERVIEW

CLIENT:	CITY OF MANDAN MANDAN NORTH DAKOTA	PREPARED BY: RFM
		CHECKED BY: JGK
		APPROVED BY: JGK

PROJECT NO: P10200-2023-001	SHEET DESIGNATOR:	SHEET NO:
DATE: MAY 2024		C104
ALT. PROJECT NO:		

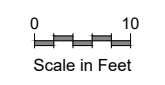


Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: **PRELIMINARY - NOT FOR CONSTRUCTION**

SYMBOL	DATE	APPROVED



LEGEND

- RIP RAP NDDOT GRADE 1
- RIP RAP 9 INCH D50
- SEEDING AND ECB
- PAVER
- BITUMINOUS
- CAST IN PLACE CONCRETE
- CONCRETE PUSH SECTION

COORDINATE SYSTEM:
NORTH DAKOTA STATE PLANE - SOUTH ZONE - INTERNATIONAL FOOT (NAD83)

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SHEET TITLE: **BOAT RAMP RESTORATION**

CLIENT: **CITY OF MANDAN**
MANDAN NORTH DAKOTA

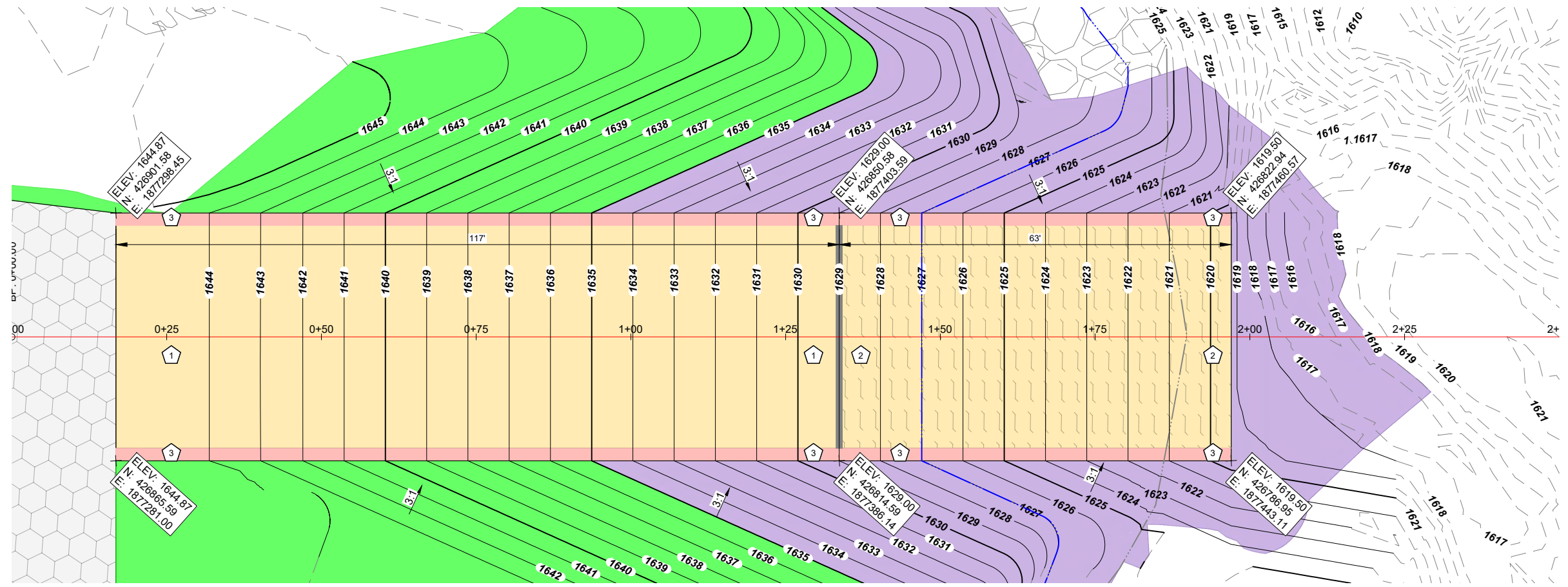
PREPARED BY: RFM
CHECKED BY: JGK
APPROVED BY: JGK

PROJECT NO: P10200-2023-001 SHEET DESIGNATOR: SHEET NO: **C108**

DATE: MAY 2024
ALT. PROJECT NO:

MANDAN BOAT RAMP

Advanced Engineering and Environmental Services, LLC www.ae2s.com



AES
2

Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively

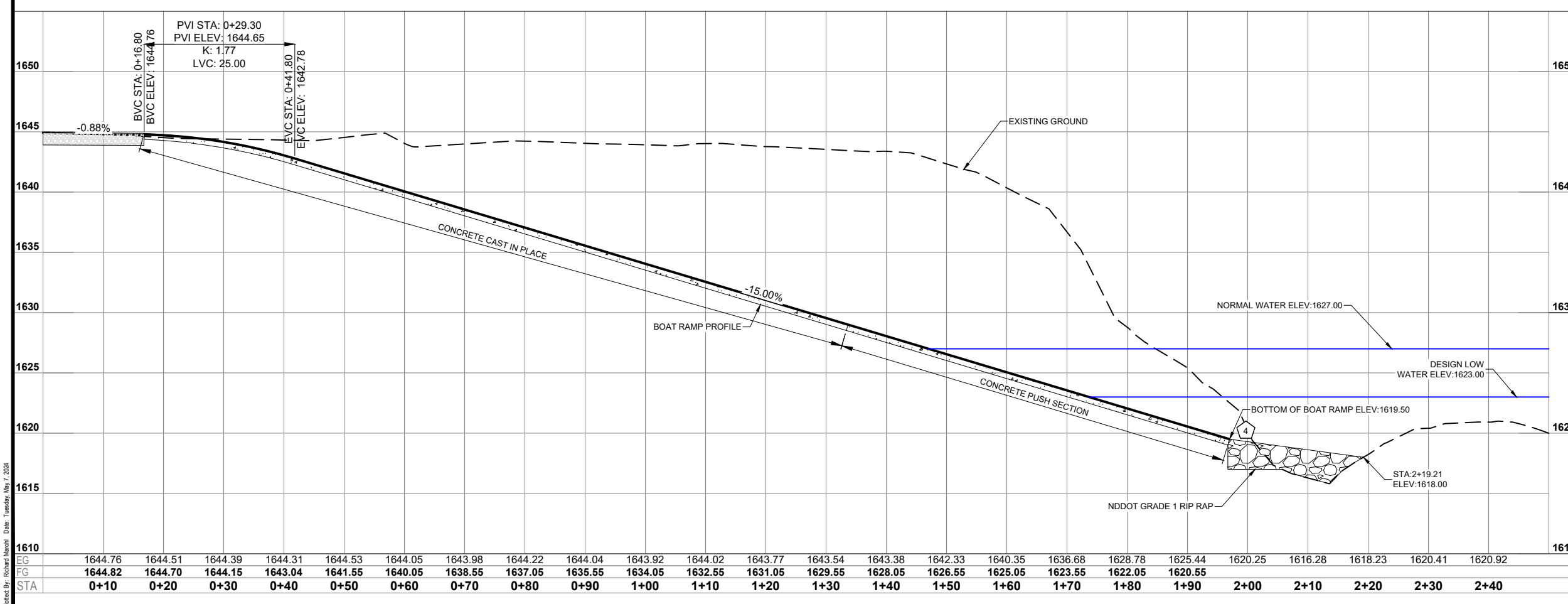
Advanced Engineering and Environmental Services, LLC
NOT FOR CONSTRUCTION
PRELIMINARY

STATUS: **PRELIMINARY - NOT FOR CONSTRUCTION**

SYMBOL: DATE: APPR:



- CONSTRUCTION NOTES**
- 1 CONCRETE SLAB TO BE CAST IN-PLACE.
 - 2 CONCRETE PUSH SECTION.
 - 3 2' WIDE X 2' DEEP TRENCH WITH 9 INCH D50 RIP RAP
 - 4 RIP RAP SHALL BE PLACED AT THE END OF THE BOAT RAMP SUCH THAT IT IS GENERALLY LEVEL WITH THE TOP OF CONCRETE OR UP TO 6 INCHES ABOVE TOP OF CONCRETE.



COORDINATE SYSTEM:
NORTH DAKOTA STATE PLANE - SOUTH ZONE - INTERNATIONAL FOOT (NAD83)

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SHEET TITLE: **BOAT RAMP PROFILE**

CLIENT: **CITY OF MANDAN**
MANDAN NORTH DAKOTA

PREPARED BY: RFM
CHECKED BY: JGK
APPROVED BY: JGK

PROJECT NO: P10200-2023-001 SHEET DESIGNATOR: SHEET NO: **C201**

DATE: MAY 2024
ALT. PROJECT NO: