

# Locations Included In This Package:

# **Trollwood Performing Arts**

801 50th Ave S, Moorhead, MN 56560



# **FARGO PUBLIC SCHOOLS**



4000 GARDEN VIEW DRIVE, SUITE 101 GRAND FORKS, ND 58201 (701) 772.4266 OFFICE WWW.ICONARCHITECTS.COM

# STRUCTURAL

HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

# MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

# ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

# CIVIL

LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE



ARCHITECT: 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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: THE SUBJECT OF SUBJECT TODD BLIXT RINTED NAME: 12/18/24 62763 LICENSE NUMBER:

# **DRAWING HISTORY**

NO. DESCRIPTION DATE CONSTRUCTION DOCUMENTS 12/18/24

# LIST OF ABBREVIATIONS

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	LIST OF ABBREVIATIONS DESCRIPTION	
_	- ASBESTOS CONTAINING MATERIAL - ACOUSTICAL CEILING TILE	NC
	- AMERICANS W/DISABILITIES ACT	N
	- ABOVE FINISH FLOOR	(
	- AIR HANDLING UNIT - ALTERNATE	OF
	- ALTERNATING CURRENT	
		OF
	- AMERICAN CONCRETE INSTITUTE - AMERICAN INSTITUTE OF STEEL	
	CONSTRUCTION	F
ANSI	- AMERICAN NATIONAL STANDARDS INSTITUTE	F PLYW
ASHRAE	- AMERICAN SOCIETY OF HEATING REF. AND	PLA
ARCH	AIR CONDITIONING ENGINEERS - ARCHITECT	PLAS
	- ARCHITECT/ENGINEER	PT PRE
ASI	- ARCHITECTURAL SUPPLEMENTAL INSTRUCTION	REI
AWI	- AMERICAN WOODWORKING INSTITUTE	REQ
	- BEAM	R
	- BEARING - BOARD	F
	- BOTTOM	R/
	- BRITISH THERMAL UNITS	
	- BUILDING - BUILT UP ROOFING	S
	- CABINET	Sł SPE
	- CATCH BASIN - CARPET	SEC
	- CARPET - CASEMENT	
CSWK	- CASEWORK	SUS
	- CAST IN PLACE - CAST IRON	
	- CAST IRON - CEILING	TF
СТ	- CERAMIC TILE	TR
	- CLEAN OUT - CLEAR	
	- CONCRETE	
	- CONCRETE MASONRY UNIT	
	- CONTROL JOINT - CORNER GUARD	l
	- CABINET UNIT HEATER	
	- DEMOLITION	WD
	- DEPARTMENT - DETAIL	
DIAG	- DIAGONAL	
	- DIAMETER	
	- DIMENSION - DISHWASHER	\
	- DISTANCE	
	- DOCUMENT - DOOR	0
	- DOOR - DRAWING	CE
	- DRINKING FOUNTAIN	M
	- EACH - ELECTRIC	BF
	- ELECTRIC - ELEVATOR/ELEVATION	CMU
	- ELECTRIC WATER COOLER	CMU
	- EQUAL - EQUIPMENT	CMU
	- EXISTING	CONC PF
	- EPOXY PAINT	(
	- EXPANSION JOINT - EXTERIOR INSULATION FINISH SYSTEM	E>
FIN	- FINISH	FF PT
	- FLOOR - FIRE EXTINGUISHER CABINET	L
	- FIRE HOSE CABINET	FF
FD	- FLOOR DRAIN	RST
	- FOOTING - FINISH FLOOR	
FFE	- FURNITURE, FIXTURE, AND EQUIPMENT	OV F
		WC
	- FABRIC WALL COVERING - GENERAL CONTRACTOR	SI
GALV	- GALVANIZED	
	- GENERAL - GLASS/ GLAZING	SV
	- GLASS/ GLAZING - GYPSUM WALL BOARD	S1
	- HANDICAP	
	- HARDWARE - HARDWOOD	WF
	- HOLLOW METAL	CPT-A CPT-ES
	- HORIZONTAL	MTI
	- HEIGHT - HOSE BIB	PV
INSUL	- INSULATION	
	- INTERNATIONAL BUILDING CODE - JANITOR	R/
_	- JANITOR - LAMINATE	(
LAV	- LAVATORY	EF
	- MASONRY - MARKER BOARD	SN
	- MARKER BOARD - MEDIUM DENSITY FIBERBOARD	SC SN
ML	- MATCHLINE	ME
	- METAL STUD - METAL	F
	- METAL - MANHOLE	BC
NIC	- NOT IN CONTRACT	

NO	LIST OF ABBREVIATIONS DESCRIPTION - NON COMBUSTIBLE
-	- NON COMBUSTIBLE
	- NOT TO SCALE
	- OVERHEAD - ON CENTER
	- OWNER FURNISHED CONTRACTOR
	- OWNER FURNISHED OWNER INSTALLED
	- OWNER FORNISHED OWNER INSTALLED - ORIENTED STRAND BOARD
PT	- PAINT
	- PARTICLE BOARD
	- PRECAST - PLYWOOD
	- PLASTIC LAMINATE
	- PLASTER
	- PAPER TOWEL DISPENSER - PREVIOUS
	- REINFORCEMENT
	- REQUIRED
	- REVERSE - ROOM
	- ROUGH OPENING
RAD	- RADIUS
	- ROOF TOP UNIT
	- SOAP DISPENSER - SIMILAR
	- SHEET
SPEC	- SPECIFICATIONS
-	- SECTION
	- SMOKE DETECTOR - SQUARE
	- SUSPEND
	- THIN COAT
	- TOILET PAPER DISPENSER
	- TOILET PARTITION - TREATED
	- TRANSITION STRIP
TYP	- TYPICAL
	- TEMPORARY/TEMPERATURE
	- TOP OF - UNDERWRITERS LABORATORIES
	- UNLESS NOTED OTHERWISE
-	- VINYL COMPOSITION TILE
	- WINDOW
	- WITH - WOOD
	- CARPET TILE
QT	- QUARRY TILE
	- VINYL WALL COVERING - SHEET VINYL
	- OPEN TO STRUCTURE
	- CEMENT BACKER BOARD
	- MIRROR - BY OWNER
	- BRICK
	- CONCRETE MASONRY UNIT (GLAZED)
CMU-S	- CONCRETE MASONRY UNIT (STANDARD 8"x8" SCORED)
CMU-B	- CONCRETE MASONRY UNIT (BURNISHED)
	- SEALED CONCRETE
	- PREFINISHED
	- CAST STONE - EXPOSED
	- FIBERGLASS REINFORCED PANEL
	- PAINT- EPOXY
	- FRY REGLET REVEAL TRIM - STATIC DISSIPATIVE TILE
	- RUBBER STAIR TREADS -RISERS
	- SPECIAL COATING -SEE SPECS
	- OPERABLE WALL PANEL - RUBBER BASE
	- WALK-OFF MAT
SLT	- SLATE
	- SOLID SURFACE
	- STONE - SOUND-ABSORBING WALL UNIT
_	- STAIN
VP	- VINYL PLANK FLOORING
	- VINYL TILE FLOORING
WRS	- WINDOW ROLLER SHADES
WRS CPT-AS	
WRS CPT-AS CPT-ESD MTLP	- WINDOW ROLLER SHADES - CARPET -ANT-STATIC - CARPET -ELECTROSTATIC DISCHARGE - METAL PROFILE TRIM
WRS CPT-AS CPT-ESD MTLP PWP	- WINDOW ROLLER SHADES - CARPET -ANT-STATIC - CARPET -ELECTROSTATIC DISCHARGE - METAL PROFILE TRIM - PREFINISHED WALL PANEL
WRS CPT-AS CPT-ESD MTLP PWP CTR	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP	- WINDOW ROLLER SHADES - CARPET -ANT-STATIC - CARPET -ELECTROSTATIC DISCHARGE - METAL PROFILE TRIM - PREFINISHED WALL PANEL
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD WR	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> <li>WASTE RECEPTACLE</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD WR SND	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD WR SND SCD	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> <li>WASTE RECEPTACLE</li> <li>SANITARY NAPKIN DISPOSAL</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD WR SND SCD SNV MBH	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> <li>WASTE RECEPTACLE</li> <li>SANITARY NAPKIN DISPOSAL</li> <li>SANITARY NAPKIN VENDING MACHINE</li> <li>MOP/ BROOM HOLDER</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD WR SND SCD SNV MBH RH	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> <li>WASTE RECEPTACLE</li> <li>SANITARY NAPKIN DISPOSAL</li> <li>SEAT COVER DISPENSER</li> <li>SANITARY NAPKIN VENDING MACHINE</li> <li>MOP/ BROOM HOLDER</li> <li>ROBE HOOK</li> </ul>
WRS CPT-AS CPT-ESD MTLP PWP CTR TBWP RAF GB EHD WR SND SCD SNV MBH RH BCS	<ul> <li>WINDOW ROLLER SHADES</li> <li>CARPET -ANT-STATIC</li> <li>CARPET -ELECTROSTATIC DISCHARGE</li> <li>METAL PROFILE TRIM</li> <li>PREFINISHED WALL PANEL</li> <li>COUNTER</li> <li>TRAFFIC BEARING WATER PROOFING</li> <li>RESILIENT RUBBER FLOORING</li> <li>GRAB BAR</li> <li>ELECTRIC HAND DRYER</li> <li>WASTE RECEPTACLE</li> <li>SANITARY NAPKIN DISPOSAL</li> <li>SEAT COVER DISPENSER</li> <li>SANITARY NAPKIN VENDING MACHINE</li> <li>MOP/ BROOM HOLDER</li> </ul>

# **GENERAL NOTES**

- PROJECT GENERAL NOTES DESCRIP 1. NOTIFY ARCHITECT PROMPTLY IF ANY CONSTRUCTION DOCUMENTS
- 2. FIELD VERIFY ALL EXISTING CONDITIO FABRICATION/CONSTRUCTION.
- 3. CONTRACTORS TO VERIFY ALL EXISTI
- FAMILIARIZE THEMSELVES WITH ALL 4. DIMENSIONS AND ELEVATIONS AS SHO FIELD VERIFIED AND COORDINATED
- COORDINATE ALL PENETRATIONS THE TRADES. 6. PROVIDE A SAFE MEANS OF EGRESS T BUILDING AND SITE AT ALL TIMES DU
- SIDEWALKS FRONTING THE BLDG SHA OF MUD OR OTHER DEBRIS. CONTRA REASONABLE WORK AREA TO BE COC MANAGER/OWNERS REPRESENTATIVE
- 7. CONTRACTOR SHALL VERIFY AND PRO CONSTRUCTION REQUIRED FOR OWNE OUT IN DRAWINGS OR SPECIFICATION
- MINIMUM SLIP RESISTANCE OF FLOOR (GENERAL): 0.5 STATIC COEFFICIENT O 0.6 STATIC COEFFICIENT OF FRICTION OF FRICTION

9. ALL DIRECTIONAL REFERENCES IN DR NORTH.

- 10. ALL JOINTS & PENETRATIONS SHALL REQUIRED TO COMPLY WITH APPLICA
- 11. KEYNOTES ARE USED TO ASSIST IN NO INSTANCES.
- 12. SUSPENDED CEILING HEIGHTS ARE DI FLOOR.
- 13. COORDINATE EXACT LOCATIONS OF LIC SPRINKLER HEADS, HVAC DUCTS, CEIL ADDITIONAL CEILING ITEMS WITH MECH CONTRACTORS AND ARCHITECT. ALL S PLACED IN THE CENTER OF CEILING TIL PROMPTLY IF ANY LOCATIONS CONFLIC

	SYMBO	OLS LEGEND				MATERIA	L LEGEND	
PTION Y CONDITIONS CONFLICT WITH THE ONS AND DIMENSIONS PRIOR TO		CENTER LINE DOOR TAG GRID BUBBLE	A B	MATCHLINE REFERENCE			ALUMINUM	SAND
ING CONDITIONS, VISIT SITE AND EXISTING CONDITIONS. IOWN ON THE DRAWINGS MUST BE IRU FOUNDATION W/APPROPRIATE		KEYNOTE TAG DEMO TAG / INTERIOR SIGNA EXTERIOR MATERIAL TAG		View Nai	NORTH ARROW W/ TRUE NORTH		CONCRETE	SAND
THROUGH AND/OR AROUND THE JRING THE CONSTRUCTION PHASE. ALL REMAIN USABLE AND CLEARED ACTOR WILL MAINTAIN A CLEAR AND ORDINATED WITH BUILDING		WALL TAG WINDOW TAG	## A###	1/8" = 1'-0"	VIEW TITLE		EARTH	SPRA'
ACTIONATED WITT BOILDING E. COVIDE ANY ROUGH-IN NER-INSTALLED EQUIPMENT CALLED NS UNLESS OTHERWISE NOTED R SURFACESWALKING SURFACES	◆ ● <sup>Name</sup> _ Elevation	SPOT ELEVATION TAG	A101		DETAIL SECTION		GRAVEL	STEEL
T OF FRICTION-ACCESSIBLE ROUTES: N -RAMPS: 0.8 STATIC COEFFICIENT RAWINGS SHALL REFER TO PLAN		HORIZONTAL ASSEMBLY TAG	1 A101		WALL SECTION		GYPSUM	STON
BE FIRE SAFED & FIRE SEALED AS ABLE BUILDING CODES. NOTING AND INDICATE REPETITIVE DIMENSIONED FROM FINISHED	Room Name           101           Room Name           101           150 SF	ROOM TAG ROOM TAG w/ AREA	1 A101		BUILDING SECTION		MASONRY - BRICK	WOOE
LIGHT FIXTURES, ACCESS PANELS, EILING DIFFUSERS/GRILLES AND ANY CHANICAL AND ELECTRICAL L SPRINKLER HEADS SHALL BE	<b>Room Name</b> 150 SF / ##	ROOM TAG w/ AREA & OCCUPANT LOAD	XXX-#]	ACCENT WALL FINISH LOCATION	l		MASONRY - CMU	WOOD
TILES. NOTIFY ARCHITECT LICT.	Room Name 101 Wall Finish Base Finish Floor Finish	ROOM TAG w/ ROOM FINISH INFO AT PLANS (NOT ALL MAY BE SHOWN)	• XXX-# • 1'-0" • PT-#	ACCENT FLOOR FINISH LOCATION CEILING TAG W/ FINISH OR AS			RIGID INSULATION / EIFS	WOOE
EXISTING RO NEW ROC	<b>Room Name</b> OM # <u>101</u> DM # <u>101</u>	ROOM TAG w/ EXISTING ROOM NUMBER		•				

# **DRAWING INDEX**

]	SAND	CONSTRUCTION DOCUMENTS   12/18/2024 GMP #1)		
	SAND - DENSE	CONSTRUCTION DG (GMP #1)	SHEET #	SHEET NAME
_		GEN	NERAL	
		•	MN-G001	General Notes / Drawing Index
	SPRAY FOAM INSULATION	•	MN-G002	ANSI 117.1 - 2021 Standards w/ 2020 MN Accesibility
				Code
-		TRO	DLLWOOD PE	ERFORMING ARTS
]		•	T-C1	Cover Sheet Trollwood
1	STEEL	•	T-C2	General Notes & Legend Trollwood
1		•	T-C3	Survey Overlay & Demolition Plan Trollwood
		•	T-C4	Overall Site Plan Trollwood
•		•	T-C5	Grading & Utility Plan Trollwood
STONE		•	T-C6	Erosion & Sediment Control Plan Trollwood
	STONE	•	T-C7	Details Trollwood
		•	T-C8	Details Trollwood
		•	T-A000	Trollwood Performing Arts Overall Site Plan
ן		•	T-A001	Trollwood Performing Arts Site Plan - Enlarged
	WOOD - FINISHED CARPENTRY	•	T-A101	Trollwood Performing Arts Portable Classroom Plans
1		•	T-M100	Main Floor Plumbing Demo & Remodel - Trollwood
		•	T-E101	Trollwood Performing Arts Portable Classroom Plans - Electrical

WOOD - ROUGH CARPENTRY

WOOD - PLYWOOD



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# FARGO PUBLIC SCHOOLS

#### STRUCTURAL

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#### MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

> MBN ENGINEERING 503 7TH ST N #200 FARGO, ND 58102 (701) 478.6336 OFFICE

#### ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

# CIVIL

LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE

#### ARCHITECT:

OR E LIC	REBY CERTIFY THAT THIS PLAN, SI REPORT WAS PREPARED BY ME C DIRECT SUPERVISION AND THAT I A ENSED ARCHITECT UNDER THE LA STATE OF MINNESOTA.	R UNDER MY
SIGNAT	URE: THIRE	
	12/18/24	
LICENS	E NUMBER:62763	
DRA	WING HISTORY	
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	12/18/24
DRAW	N BY: TA/AO/AF/KD	JN: 24-060
Ge	eneral Notes / Drav Index	ving
R	SHEET	01

# **BUILDING BLOCKS**

#### 302 FLOOR SURFACES

**302.2 CARPET** - Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut pile, or level cut/uncut pile texture. The pile shall be 1/2" maximum in height. Exposed edges of carpet shall be fastened to the floor and shall have trim along the entire length of the exposed edge. Carpet edge

trim shall comply with Section 303. 302.3 OPENINGS - Openings in floor surfaces shall be of a size that does not permit the passage of a 1/2" diameter sphere, except as allowed in Sections 407.4.3, 408.4.3, 409.4.3, 410.4, and 805.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel space.

#### 303 CHANGE IN LEVEL

**303.2 VERTICAL** - Changes in level of 1/4 " maximum in height shall be permitted to be vertical. 303.3 BEVELED - Changes in level greater than 1/4" in height and not more than 1/2" maximum in height shall be beveled with a slope not steeper than 1:2. Changes in level greater than 1/2 inch (13mm) in height shall be ramped and shall comply with Section 405 and 406.

# 304.2 FLOOR SURFACES - Floor surfaces of a turning space shall have a slope not steeper than 1:48 and

shall comply with Section 302. 304.3 SIZE

304.3.1 CIRCULAR SPACE - The turning space shall be a circular space with a 67-inch minimum

diameter. The turning space shall be permitted to include knee and toe clearance complying with **304.3.2 T-SHAPED SPACE** - The turning space shall be a T-shaped space within a 64-68-inch minimum square, with arms and base 36 inches minimum in width. Each arm of the T shall be clear of obstructions 12 inches minimum in each direction, and the base shall be clear of obstructions 24 inches minimum.

The turning space shall be permitted to include knee and toe clearance complying with Section 306 only at the end of either the base or one arm 304.4 DOOR SWING - Unless otherwise specified, doors shall be permitted to swing into turning spaces

#### 305 CLEAR FLOOR SPAC

305.2 FLOOR SURFACES - Floor surfaces of a turning space shall have a slope not steeper than 1:48 and shall comply with Section 302. 305.3 SIZE - The clear floor space shall be 52 inches minimum in length and 30 inches minimum in width in

new buildings. The clear floor space shall be 48 inches minimum in length and 30 inches minimum in width in existing building **305.5 POSITION** - Unless otherwise specified, the clear floor space shall be positioned for either forward or

parallel approach to an element. 305.6 APPROACH - One full, unobstructed side of the clear floor space shall adjoin or overlap an accessible route or adjoin another clear floor space.

305.7 ALCOVES - If a clear floor space is in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances complying with Sections 305.7.1 and 305.7.2 shall be provided, as applicable

**305.7.1 PARALLEL APPROACH** - Where the clear floor space is positioned for a parallel approach, the alcove shall be 60 inches minimum in width where the depth exceeds 15 inches **305.7.2 FORWARD APPROACH** - Where the clear floor space is positioned for a forward approach, the alcove shall be 36 inches minimum in width where the depth exceeds 24 inches.

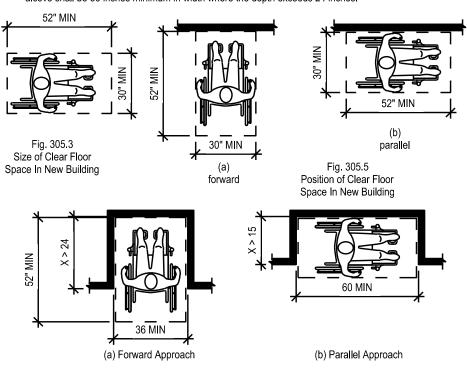


Fig. 305.7

807 PROTRUDING OBJEC

posts or pylons shall be permitted to overhand 4

more than 80 inches above the floor. Objects on

multiple posts or pylons where the clear distance

between the posts or pylons is greater than 12 inches

shall have the lowest edges of such object either 27

inches maximum or 80 inches minimum above the

I Guardrails or other barriers shall be provided where

object protrusion is beyond the limits allowed by

Sections 307.2 and 307.3, and where the vertical

leading edge of such guardrail or barrier shall be 27

objects shall not reduce the clear width required for

307.5 REQUIRED CLEAR WIDTH - Protruding

clearance is less than 80 inches above the floor. The

307.4 REDUCED VERTICAL CLEARANCE

inches maximum above the floor.

accessible routes

as up

inches maximum where more than 27 inches and not

#### Maneuvering Clearance in a Alcove In Existing Building

306.2.1 GENERAL - Space beneath an element 307.2 PROTRUSION LIMITS - Objects with leading between the floor and 9 inches above the floor shall edges more than 27 inches and not more than 80 be considered toe clearance and shall comply with inches above the floor shall protrude 4 inches

306.2.2 MAXIMUM DEPTH - Toe clearance shall 307.3 POST-MOUNTED OBJECTS - Objects on be permitted to extend to 25 inches maximum under an element.

306.2.3 MINIMUM DEPTH - Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches minimum beneath the element

306.2.4 ADDITIONAL CLEARANCE - Space extending greater than 6 inches beyond the available knee clearance at 9 inches above the floor shall not be considered toe clearance

#### **306.2.5 WIDTH** - Toe clearance shall be 30 inches minimum in width.

306.3 KNEE CLEARANCE 306.3.1 GENERAL - Space beneath an element between 9 inches and 27 inches above the floor shall be considered knee clearance and shall comply with

Section 306.3. 306.3.2 MAXIMUM DEPTH - Knee clearance shall be permitted to extend 25 inches maximum under an element under an element at 9 inches

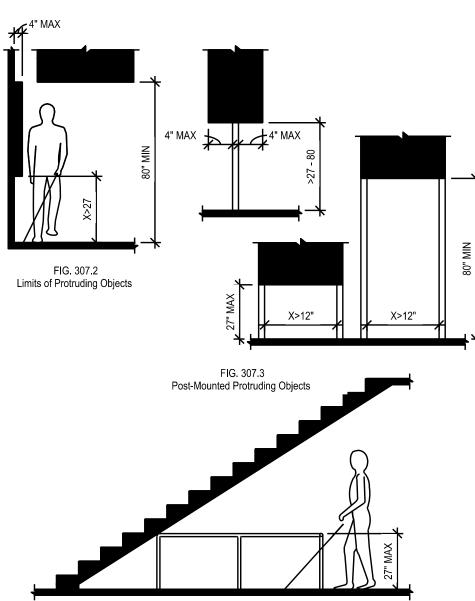
above the floor. 306.3.3 MINIMUM DEPTH - Where knee clearance is required beneath an element as part of a clear floor space, the knee clearance shall be 11 inches minimum in depth at 9 inches above the floor, and 8 inches minimum in depth at 27 inches above

the floor. 306.3.4 CLEARANCE REDUCTION - Between 9 inches and 27 inches above the floor, the knee

clearance shall be permitted to be reduced at a rate of 1 inch for each 6 inches in height. **306.3.5 WIDTH** - Knee clearance shall be 30 inches minimum in width.

25" MAX

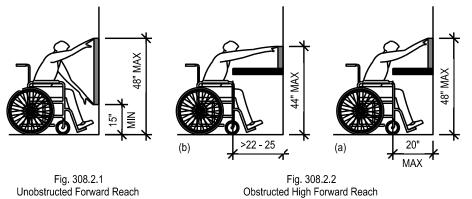
Fig. 306.3 Knee and Toe Clearance



#### 308 REACH RANGES 8.2 FORWARD REACH

**308.2.1 UNOBSTRUCTED** - Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the floor. 308.2.2 OBSTRUCTED HIGH REACH - Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches maximum where the reach depth is 20 inches maximum. Where the reach depth exceeds 20 inches, the high forward reach shall be 44 inches

maximum, and the reach depth shall be 25 inches maximum. **308.3 OBSTRUCTED HIGH REACH** - Where a clear floor space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches maximum and the depth of the obstruction shall be 24 inches maximum. The high side reach shall be 48 inches maximum for a reach depth of 10 inches maximum. Where the reach depth exceeds 10 inches, the high side reach shall be 46 inches maximum for a reach depth of 24 inches maximum.



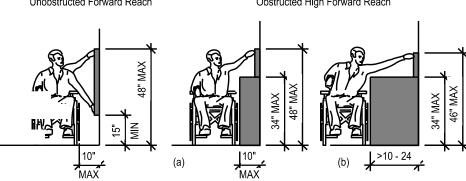


Fig. 308.3.1 Unobstructed Side Reach

309 OPERABLE PARTS

Obstructed High Side Reach **109.2 CLEAR FLOOR SPACE** - A clear floor space complying with Section 305 shall be provided.

Fig. 308.3.2

309.3 HEIGHT - Operable parts shall be placed within one or more of the reach ranges specified in Section 309.4 OPERATION - Operable parts shall not be operable with one hand and shall not require tight grasping,

pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds maximum.

# **ACCESSIBLE ROUTES**

402 ACCESSIBLE ROUTES **402.1 GENERAL** - Accessible routes shall comply with section 402 402.2 COMPONENTS - Accessible routes shall consist of one or more of the following components: Walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable portions of this standard.

# 403 WALKING SURFACE

403.1 GENERAL - Walking surfaces that are a port of an accessible route shall comply with Section 403. **403.2 FLOOR SURFACE** - Floor surfaces shall comply with Section 302. 403.3 SLOPE - The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of a walking surface shall not be steeper than 1:48. 403.4 CHANGES IN LEVEL - Changes in level shall comply with Section 303.

03.5 CLEAR WIDTH - Clear	r width of an accessible route shall comply with Table 403.5.	

Segment Length	Minimum Segment Width
< 24 inches	32 inches*
> 24 inches	36 inches

48 inches minimum in length and 36 inches minimum in width.

403.6 HANDRAILS - Where handrails are required at the side of a corridor they shall comply with Sections 505.4 through 505.9

\*Consecutive segments of 32 inches in width must be separated by a route segment

#### 404 DOORS AND DOORWAYS 404.1 GENERAL - Doors and doorways that are part of an accessible route shall comply with Section 404.

404.2 MANUAL DOORS 404.2.1 DOUBLE-LEAF DOORS AND GATES - At least one of the active leaves of doorways with two leaves shall comply with Sections 404.2.2 and 404.2.3.

404.2.2 CLEAR WIDTH - Doorways shall have a clear opening width of 32 inches minimum. Openings doors and doorways without doors more than 24 inches in depth shall provide a clear opening width of 36 inches minimum 404.2.3 MANEUVERING CLEARANCES AT DOORS - Minimum maneuvering clearances at doors shall

comply with SECTION 404.2.3 and shall include the full clear opening width of the doorway. 404.2.4 THRESHOLDS AT DOORWAYS - If provided, thresholds at doorways shall be 1/2 inch maximum in height. Raised thresholds and changes in level at doorways shall comply with Sections 302 and 303 404.2.5 TWO DOORS IN SERIES - Distance between two hinged or pivoted doors in series shall be 48

inches (1220mm) minimum plus the width of any door swinging into the space. The space between the doors shall provide a turning space complying with Section 304. 404.2.6 DOOR HARDWARE - Handles, pulls, latches, locks and other operable parts on doors and gates shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching or

twisting of the wrist to operate. The operational force to retract latches or disengage devices that hold the door or gate in a closed position shall be as follows . Hardware operation by a forward, pushing or pulling motion: 15 pounds (66.7 N) maximum. Hardware operation by a rotational motion: 28 inch-pounds (315 N cm) maximum.

404.2.6.1 HARDWARE HEIGHT - Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220mm) maximum above the floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. 404.2.7 CLOSING SPEED

**404.2.7.1 DOOR CLOSERS** - Door close shall be adjusted so that from an open position of 90 degrees, the time required to move the door to an open position of 12 degrees shall be 5 seconds

404.2.7.2 SPRING HINGES - Door spring hinges shall be adjusted so that from the open position of 70 degrees, the door shall move to the closed position in 1.5 seconds minimum. 404.2.8 DOOR-OPENING FORCE - Fire doors shall have the minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open doors other than fire doors 1. Interior hinged door: 5.0 pounds maximum shall be as follows:

Sliding or folding door: 5.0 pounds maximum. 404.2.9 DOOR SURFACE - Door surfaces within 10 inches of the floor, measured vertically, shall be a smooth surface on the push side extending the full width of the door. Parts creating horizontal or vertica joints in such surface shall be within 1/16 inch of the same plane as the other. Cavities created by added

kick plates shall be capped. 404.2.10 VISION LITES - Doors and sidelite's adjacent to doors containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one panel on either the door or an adjacent sidelite 43 inches maximum above the floor

sliding door folding door ninaed doo Fig. 404.2.2 Clear Width of Doorways if both closer and latch are provide ГТ 1 1 1 1 Front Approach Front Approach Pull Side Push Side \*if both closer and latch are provided \*54 min if closer \*\* 48 min if both closer and latch provided is provided ?" MIN\* ¢ Hinge Approach Latch Approach Push Side Pull Side

a turning space complying with Section 304.3 space complying with Section 304.3. with Section 505. 406 CURB RAMPS

with Section 405.7

# 405 10

and streets shall be the same level.

complying with Section 705, extending the full width of the marked crossing.

407.4.6.4 EMERGENCY CONTROLS

bottom the panel. 410 PLATFORM LIFTS



96 inches minimum in w
503 PASSENGER LOA
503.2 VEHICLE PULL-U
shall provide a vehicular
and 20 feet minimum in
503.3.1 LOCATION - A
discourage parking in th
503.3.2 WIDTH - Acces
60 inches minimum in w
503.3.3 LENGTH - Acc
503.3.4 MARKING - Ac

discourage parking in them. 504 STAIRWAYS on a flight of stairs shall have uniform

iser height and uniform tread depth. Risers shall be 4 inches minimum and 7 inches maximum in height. Treads shall be 11 inches minimum in depth. 504.3 OPEN RISERS - Open riser shall not be permitted 504.5 NOSINGS - The radius of

curvature at the leading edge of the tread shall be 1/2 inch (13mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the

tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall be 1 1/2 inches (38mm) maximum over the tread or floor below. The leading 2 inches (51mm) of the tread shall have visua

contrast of dark-on-light or light-on-dark from the remainder of the tread 5 HANDRAIL

shall comply with Sections 505.10 and 307.

2 1/4 inches maximum.

and ramp runs in accordance with Section 505.10. EXCEPTIONS: 1. Continuous handrails at the inside turn of stairs and ramps. 2. Extensions are not required for handrails in aisles serving seating where handrails are discontinuous to provide access to seating and to permit crossovers within the aisle. 3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.

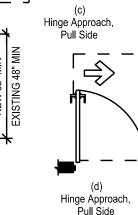




Fig. 404.2.3.1 Maneuvering Clearance at Manual Swinging Doors

#### 405.2 SLOPE - Ramp runs shall have a running slope not steeper than 1:12. 405.3 CROSS SLOPE - Cross slope of ramp runs shall not be steeper than 1:48.

**405.6 RISE** - The rise for any ramp run shall be 30 inches maximum.

405.5 CLEAR WIDTH - The clear width of a ramp run shall be 36 inches minimum.

405.7 LANDINGS - Ramps shall have landings at bottom and top of each ramp run. Landings shall comply 405.7.2 WIDTH - Clear width of landings shall be at least as wide as the widest ramp run leading to the

405.7.3 LENGTH - Landings shall have a clear length of 60 inches minimum. 405.7.4 CHANGE IN DIRECTION - Ramps that change direction at ramp landing shall be sized to provide

405.7.5 DOORWAYS - Where doorways are adjacent to a ramp landing, maneuvering clearances required by Sections 404.2.3 and 404.3.2 shall be permitted to overlap the landing area. Where doors that are subject to locking are adjacent to a ramp landing, landings shall be sized to provide a turning

405.9 EDGE PROTECTION - Edge protection complying with Section 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp location. 405.8 HANDRAILS - Ramp runs with a rise greater than 6 inches (150mm) shall have handrails complying

406.6 LOCATION - Curb ramps and the flared sides of curb ramps shall be located so they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.1 GENERAL - Curb ramps on accessible routes shall comply with Sections 406, 405.2, 405.3, and

406.2 COUNTER SLOPE - Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters

**406.4 WIDTH** - Curb ramps shall be 36 inches minimum in width. exclusive of flared sides. 406.10 DIAGONAL CURB RAMPS - Diagonal or corner-type curb ramps with returned curbs or other welldefined edges shall have the edges parallel to the direction of pedestrian flow. The bottoms of diagonal curb ramps hall have 48 inches minimum clear space outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 4 inches minimum clear space within the markings. Diagonal curb ramps with flared sides shall have segment of curb 24 inches minimum in length on each side of the curb ramp and within the marked crossing.

406.11 ISLANDS - Raised islands in crossings shall be cut-through level with the street or have curb ramps at both ends Each curb ramp shall have a level area 48 inches minimum and 36 inches minimum in width at he top of the curb ramp in the part of the island intersected by the crossings 406.12 DETECTABLE WARNINGS AT RAISED MARKED CROSSINGS - Marked crossings that are raised to the same level as the adioining sidewalk shall be preceded by a 24 inch (610mm) deep detectable warning

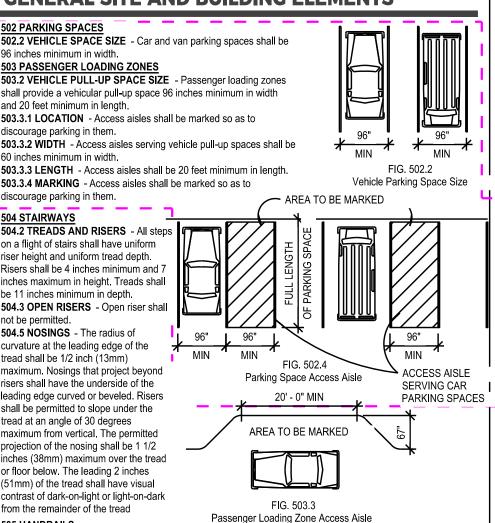
**407.1 GENERAL** - Elevators shall comply with section 407 and ASME A17.1 listed in Section 105.2.5. Elevators shall be passenger elevators as classified by ASME A17.1 Elevator operation shall be automatic. **407.2.1.1 HEIGHT** - Call buttons and keypads shall be located within one of the reach ranges specified in

Section 308, measured to the centerline of the highest operable part. 407.4.6.2 BUTTONS - Car control buttons with floor designations shall be raised or flush.

407.4.6.4.1 HEIGHT - Emergency controls shall have their centerlines 35 inches min. above the floor. 407.4.6.4.2 LOCATION - Emergency controls, including the emergency alarm, shall be grouped at he

410.1 GENERAL - Platform lifts shall comply with Section 410 and ASME/ANSI A18.1 listed in Section 105.2.6. Platform lifts shall not be attendant operated and shall provide unassisted entry and exit from the lift.

# **GENERAL SITE AND BUILDING ELEMENTS**



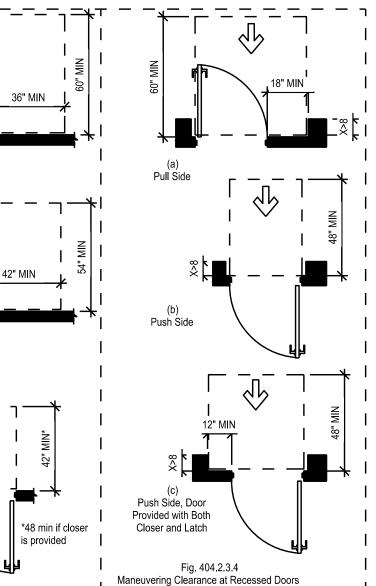
505.2 GENERAL - Handrails shall be provided on both sides of stairs and ramps EXCEPTION: Aisle stairs and aisle ramps provided with a handrail either at the side or within the aisle

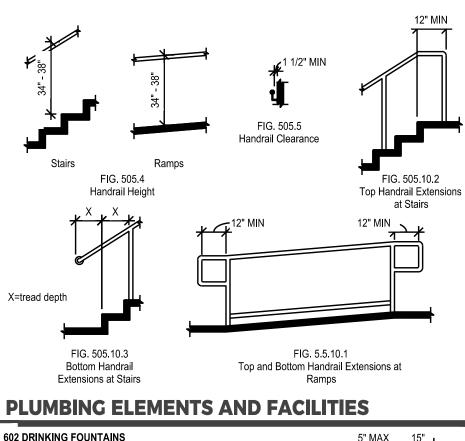
505.3 CONTINUITY - Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs or ramps shall be continuous between flights or runs. Other handrails

505.4 HEIGHT - Top of gripping surfaces of handrail shall be 34 inches minimum and 38 inches maximum vertically above stair nosings, ramp surface and walking surfaces. 505.5 CLEARANCE - Clearance between handrail gripping surface and adjacent surfaces shall be 1 1/2

inches minimum and 2 inches maximum under an element at 9 inches above the floor. 505.7.1 CIRCULAR CROSS SECTION - Handrails with a circular cross section shall have an outside diameter of 1 1/4 inches minimum and 2 inches maximum 505.7.2 NONCIRCULAR CROSS SECTIONS - Handrails with a noncircular cross section shall have a

perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross- section dimension of **505.10 HANDRAIL EXTENSIONS** - Handrails shall extend beyond and in the same direction of stair flights





# 602 DRINKING FOUNTAINS

602.1 GENERAL - Accessible drinking fountains shall comply with Sections 602 and 307. 602.2 CLEAR FLOOR SPACE - A clear floor space complying with Section 305, positioned for a forward approach to the drinking fountain, shall be provided. Knee and toe space complying with Section 306 shall be provided. The clear floor space shall be centered on the drinking fountain. 602.3 OPERABLE PARTS - Operable parts shall comply with

Section 309. 602.4 SPOUT OUTLET HEIGHT - Spout outlets of wheelchair accessible drinking fountains shall be 36 inches maximum above the floor. Spout outlets of drinking fountains for standing persons shall be 38 inches minimum and 43 inches

maximum above the floor. 602.5 SPOUT LOCATION - Fig. 602.5

602.6 WATER FLOW - The spout shall provide a flow of water 4 inches minimum in height. The angle of the water stream from spouts within 3 inches of the front of the drinking fountain shall be 30 degrees maximum, and from spouts between 3 inches and 5 inches from the front of the drinking fountain shall be 15 degrees maximum, measured horizontally relative to the front face of the drinking fountain.

# 603 TOILET & BATHING ROOMS 603.2 CLEARANCES

603.2.1 TURNING SPACE - A turning space complying with

Section 304 shall be provided within the room. 603.2.2 OVERLAP - Clear floor spaces, clearances at fixtures, and turning spaces shall be permitted to overlap

**603.2.3 DOOR SWING** - Doors shall not swing into the clear floor space or clearance for any fixture. 603.3 MIRRORS - Mirrors located above lavatories, sinks or counters shall be mounted with the bottom edge of the reflecting surface 40 inches maximum above the floor. Mirrors not located above lavatories, sinks or

counters shall be mounted with the bottom edge of the reflecting surface 35 inches maximum above the floor.

604 WATER CLOSETS & TOILET COMPARTMENTS 604.1 GENERAL - Accessible water closets and toilet compartments shall comply with Section 604. Compartments containing more than one plumbing fixture shall comply with Section 603. Wheelchair accessible compartments shall comply with Section 604.8. Ambulatory accessible ompartments shall comply with Section 604.9. 604.2 LOCATION - The water closet shall be located with a wall or partition to the rear and to one side.

604.3 CLEARANCE 604.3.1 WIDTH - Clearance around a water closet shall

be 60 inches minimum in width, measured perpendicular from the sidewall.

604.3.2 DEPTH - The depth of the clearance around the water closet shall be measured perpendicular from the rear wall and comply with Section 604.3.2.1 or 604.3.2.2. 604.3.2.1 - OVERALL CLEARANCE - The overall

clearance around the water closet shall be 78 inches nimum in dept 604.3.2.2 - WATER CLOSET CLEARANCE - The depth

of the clearance around the water closet shall be 48 inches minimum plus the depth of the water closet

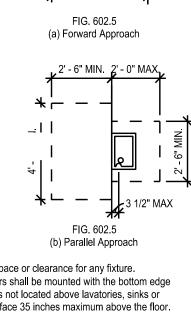
604.4 HEIGHT - The height of water closet seats shall be 17 PARKING SPACES inches minimum and 19 inches maximum above the floor, measured to the top of the seat

604.5 GRAB BARS - Grab bars for water closets shall comply with section 609 and shall be provided in accordance with Sections 604.5.1 and 604.5.2 Grab bars shall be provided on the rear wall and on the side wall closest to the water closet. 604.8.3 DOORS - Toilet compartment doors, including door hardware, shall comply with Section 404.1, except if the approach is to the latch side of the compartment door clearance between the door side of the stall and any obstruction shall be 42 inches minimum. Doors shall be located in the front partition farthest from the water closet,

Where located in the side 604.8.5 TOE CLEARANCE - The front partition and at least one side partition shall provide a toe clearance of 9 inches minimum above the floor and extending 6 inches beyond the compartment side face of the partition, exclusive of partition support members. Toe clearance is not required in a compartment greater than 62 inches in depth with a wall-hung water closet, or greater than 65 inches in depth with a floormounted water closet. Where located in the side wall or partition, the door opening shall be 4 inches maximum from the front partition. The door shall be self-closing. A door pull complying with Section 404.2.6 shall be placed on both sides

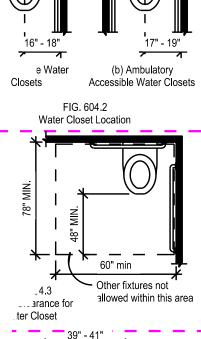
of the door near the latch. Toilet compartment doors shall not swing into the required minimum area of the compartment. 604.10.6 FLUSH CONTROLS - Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Sections 309.2 and 309.4 and shall be installed 6 inches maximum above the floor. Flush controls shall be

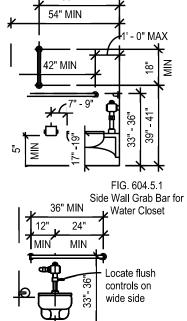
located on the open side of the water closet. 604.10.7 DISPENSERS - Toilet paper dispensers shall comply with Section 309.4 and shall be 7 inches minimum and 9 inches maximum in front of the water closet measured to the center line of the dispenser. The outlet of the dispenser shall be 14 inches minimum and 19 inches maximum above the floor. There shall be a clearance of 1 1/2 inches minimum below the grab bar. Dispensers shall not be of a type that control delivery do not allow continuous paper flow.



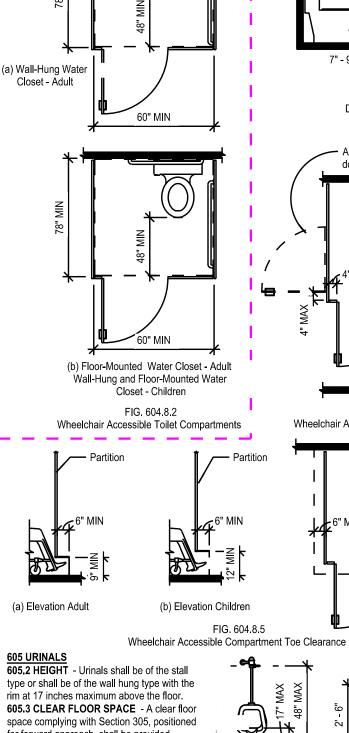
**җ**\_└ \_ \_ \_

4' - 0" MIN.





1'-6" FIG. 604.5.2 Rear Wall Grab Bar for



for forward approach, shall be provided. 605.4 FLUSH CONTROLS - Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309.

۵06 LAVAT<u>ORIES & SINK</u>

606.2 CLEAR FLOOR SPACE - A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be considered in determining knee and toe clearances.

1. A clear floor space providing a parallel approach shall be permitted at a kitchen sink in a space where a cook top or conventional range is not provided The requirement for knee and toe clearance shall

not apply to a lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use. 3. A knee clearance of 24 inches minimum above the

floor shall be permitted at lavatories and sinks used primarily by children ages 6 through 12 where the

higher of the rim or counter or counter surface is 3 inches maximum above the floor 4. A clear floor space providing a parallel approach shall be permitted at lavatories and sinks used

primarily by children ages 5 and younger . Requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink A clear floor space providing a parallel approach

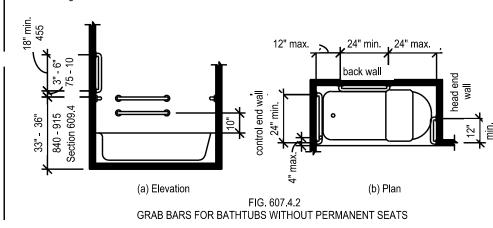
shall be permitted at wet bars. 606.3 HEIGHT - The front of the lavatories and sinks shall be 34 inches maximum above the floor, measured to the higher of the rim or counter surface.

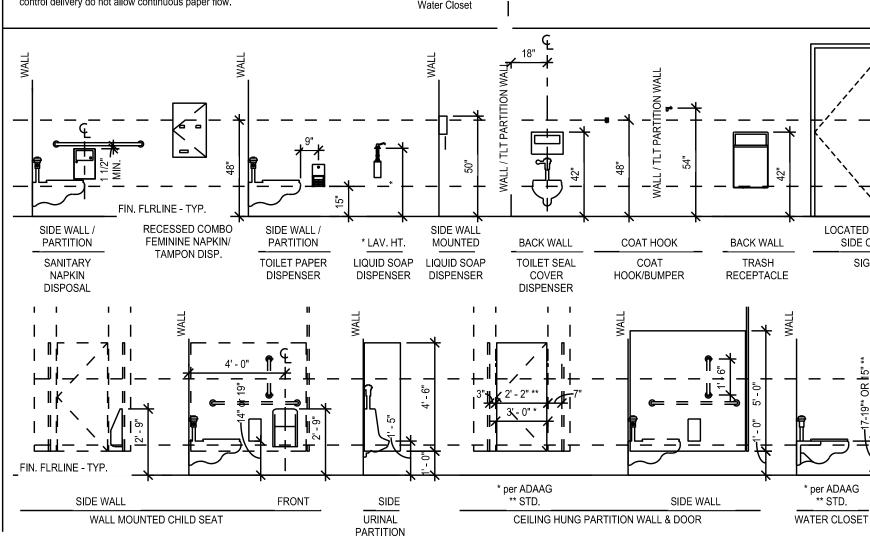
606.4 FAUCETS - Faucets shall comply with Section 309. Hand-operated metering faucets shall remain open for 10 seconds minimum 606.6 EXPOSED PIPES AND SURFACES - Water supply and drainpipes under lavatories and sinks shall be nsulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces

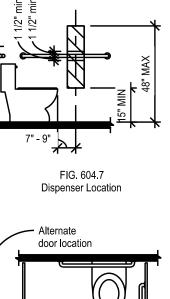
# under lavatories and sinks

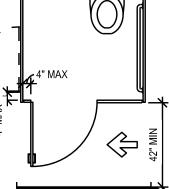
607.4.2 BATHTUBS WITHOUT PERMANENT SEATS - For bathtubs without permanent seats, grab bars shall comply with 609.4 607.4.2.1 BACK WALL - Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches minimum and 10 inches maximum above the rim of the bathtub. Each grab bar shall be 24" long minimum and shall be installed 24 inches maximum from the head end wall and 12 inches maximum from the control end wall. 607.4.2.2 CONTROL END WALL - A grab bar 24 inches long minimum shall be installed on the control end

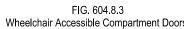
wall at the front edge of the bathtub. 607.4.2.3 HEAD END WALL - A grab bar 12 inches long minimum shall be installed on the head end wall at the front edge of the bathtub.

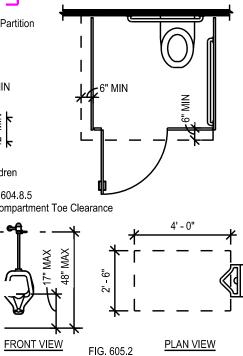




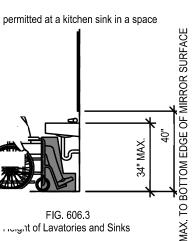








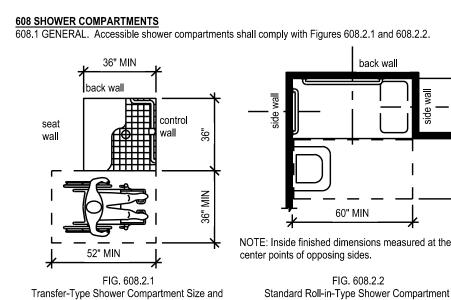
Height of Urinals



URINAL

LAVATORY

MIRROR



Clearance

Size and Clearances

09.2 CROSS SECTION - Grab bars shall have a cross section complying with Section 609.2.1 and 609.2.2. 609.2.1 CIRCULAR CROSS SECTION - Grab bars with a circular cross section shall have an outside diameter of 1 1/4 inch minimum and 2 inches maximum 609.2.2 NONCIRCULAR CROSS SECTION - Grab bars with a noncircular cross section shall have a cross section dimension of 2 inches maximum, and a perimeter dimension of 4 inches minimum and 4.8

inches maximum 609.3 SPACING - The space between the wall and the grab bar shall be 1 1/2 inches. The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1 1/2 inches minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches minimum. 609.5 SURFACE HAZARDS - Grab bars, and any wall or other surfaces adjacent to grab bars, shall be free of sharp or abrasive elements. Edges shall be rounded 609.8 STRUCTURAL STRENGTH - Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds is applied at any point on the grab bar, fastener mounting device or "pporting structure.

# **COMMUNICATION ELEMENTS AND FEATURES**

702.1 GENERAL - Accessible audible and visual alarms and notification appliances shall be installed in accordance with NFPA 72 listed in Section 105.2.2, be powered by a commercial light and power source, be permanently connected to the wiring of the premises electric system, and be permanently installed.

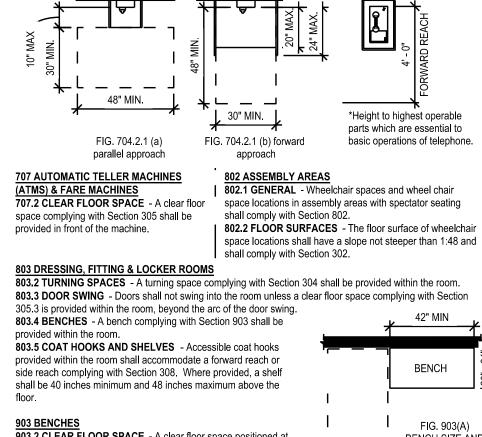
703.2.3 STYLE - Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

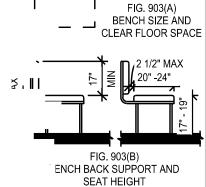
703.2.4 CHARACTER HEIGHT - The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The uppercase letter "I" of the font shall have a minimum height complying with Table 703.2.4. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. **703.2.4 CHARACTER WIDTH** - The uppercase letter "O" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "O" of the font shall be 55 percent minimum and 110

percent maximum of the height of the uppercase "I" of the font. See Table 703.2.4. 703.3.12 FINISH AND CONTRAST - Characters and their background shall have a nonglare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters on a light background. **703.4 BRAILLE** - See Table 703.4.3 and Figure 703.4.3.

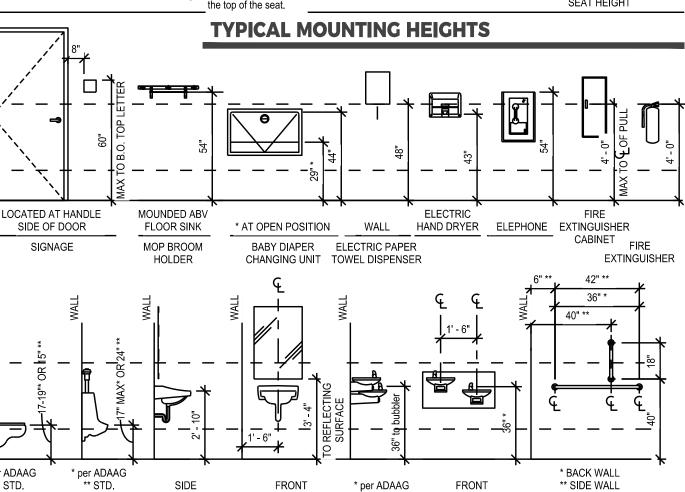
- 703.4.5 MOUNTING HEIGHT Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. 703 5 PICTOGRAMS
- 703.5.2 PICTOGRAM FIELD Pictograms shall have a field 6 inches minimum in height. Characters or braille shall not be located in the pictogram field.
- 704 TELEPHONE **1.2.1 CLEAR FLOOR SPACE** - A clear floor space complying with Section 305 shall be provided. **744 14 PARALLEL APPROACH** - Where a parallel approach is provided the distance from the edge of memory and a second shall be 10 inches maximum. **704.2.1.2 FORWARD APPROACH** - Where a forwards approach is provided, the distance from the front of a counter within the enclosure to the face of the telephone shall be 20 inches maximum.
- 1.1.3 OPERABLE PARTS The highest operable part of the telephone shall comply with Section 308 Telephones shall have push button controls where service for such equipment is available 704.2.1.4 TELEPHONE DIRECTORIES - Where provided, telephone directories shall comply with Section 309.

704.2.1.4 CORD LENGTH - The telephone handset cord shall be 29 inches minimum in length. 704.2.1.5 HEARING-AID COMPATIBILITY - Telephones shall be hearing aid compatible. 704.3 VOLUME-CONTROL TELEPHONES - Public telephones required to have volume controls shall be equipped with a receive volume control that provides a gain adjustable up to 2 B minimum. 704.5 HEIGHT - When in use, the touch surface of TTY keypads shall be 34 inches minimum above the floor,





GRAB BAR



ELECTRIC DRINKING

FOUNTAIN (EDF)

# 4000 GARDEN VIEW DRIVE, SUITE 101 GRAND FORKS, ND 58201 (701) 772.4266 OFFICE WWW.ICONARCHITECTS.COM



STRUCTURAL

HEYER ENGINEERINC 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

# MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

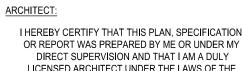
> MBN ENGINEERING 503 7TH ST N #200 FARGO, ND 58102 (701) 478.6336 OFFICE

> > ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

# CIVIL

LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE



	STATE OF MINNESOTA.
SIGNATURE:	mag
PRINTED NAME:	TODD BLIXT
DATE: 1	2/18/24
LICENSE NUMBER:	62763

DRAWING HISTORY NO. DESCRIPTION

#### DATE CONSTRUCTION DOCUMENTS 12/18/24

JN: 24-060

DRAWN BY: TA/AO/AF/KD

ANSI 117.1 - 2021 Standards *w*/2020 MN Accesibility Code



03.2 CLEAR FLOOR SPACE - A clear floor space positioned at the end of the bench seat parallel to the short axis of the bench shall be provided.

903.3 SIZE - Benches shall have seats 42 inches minimum in length, and 20 inches minimum and 24 inches maximum in depth. 903.4 BACK SUPPORT - The bench shall provide for back support or shall be affixed to a wail. Back support shall Be 42 inches minimum in length and shall extend from a point 2 inches maximum above the seat surface to a point 18 inches minimum above the seat surface. Back support shall Be 2 1/2 inches maximum from the rear edge of the seat measured horizontally 903.5 HEIGHT - The top of the bench seat shall be 17 inches mininum and 19 inches maximum above the floor, measured to

	SITE IN	FORMATION	
	SURVEY	INFORMATION	
DATE OF SURVEY			NOVEMBER 18, 2024
COORDINATE SYSTEM			CITY OF FARGO
DRAWING UNITS			US SURVEY FEET
VERTICAL DATUM			NAVD 88

BENCHMARK #1:

THE TOP NUT OF EX. HYDRANT WEST OF THE PARKING LOT IMPROVEMENTS. ELEV.=908.04 (NAVD88)

BENCHMARK #2: THE EX. STORM INLET RIM EAST OF THE PARKING LOT IMPROVEMENTS. ELEV.=903.06 (NAVD88)

BASIS OF BEARING: CITY OF FARGO COORDINATE SYSTEM (NAD83)





# TROLLWOOD PERFORMING ARTS SITE IMPROVEMENTS

801 50TH AVENUE SOUTH MOORHEAD, MINNESOTA 56560

VICINITY MAP

#### **OWNER'S REPRESENTATIVE** ICON ARCHITECTURAL GROUP ALYSSA OMMEN, PROJECT ARCHITECT 3187 BLUESTEM DRIVE, SUITE 2 WEST FARGO, ND 58078 PH: 701-364-4007 EMAIL: alyssa.ommen@iconarchitects.com

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CIVIL ENGINEER LOWRY ENGINEERING DREW MESSMER, P.E. 5306 51ST AVENUE SOUTH, SUITE A FARGO, ND 58104 PH: 701-235-0199 EMAIL: dmessmer@lowryeng.com

# ARCHITECTURAL GROUP

4000 GARDEN VIEW DRIVE, SUITE 101 GRAND FORKS, ND 58201 P. 701.772.4266 | F. 701.772.4275 WWW.ICONARCHITECTS.COM



FARGO PUBLIC SCHOOLS

## TROLLWOOD **PERFORMING ARTS** 801 50TH AVE S MOORHEAD, MN 56560

STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

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(701) 235.0199 OFFICE

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THE STATE OF MINNESOTA.
K MI
< INPW MARSONNENT

DREW MESSMER DATE: 12/18/24 LICENSE #: 62823

**DRAWING HISTORY** 

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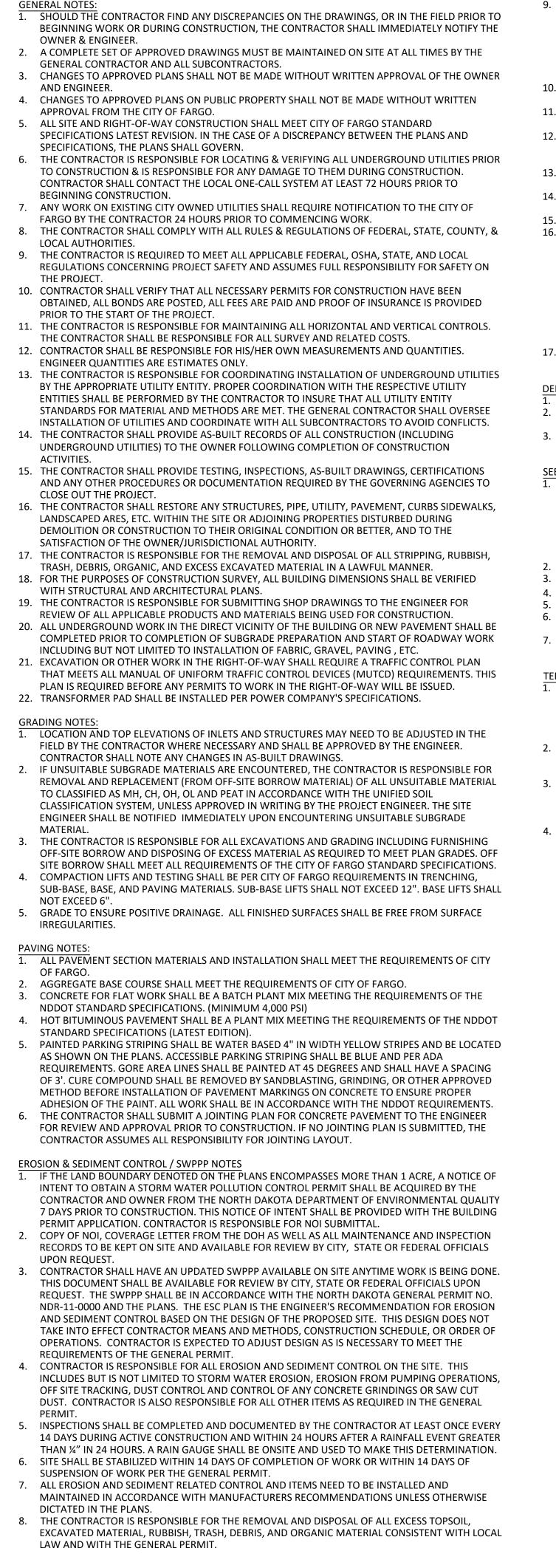
JN: 24-060

# **COVER SHEET**

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TROLLWOOD





- 9. CONTRACTOR IS RESPONSIBLE FOR EXCAVATIONS AND GRADES. MUDD MUST BE HELD IN SETTLING BASINS OR STORM DRAINAGE SYSTEMS. WA LINED CHANNEL, OR OTHER EQUIVA OR SEDIMENTATION. THIS INCLUDES OTHER WATER ON SITE CAUSING IM 10. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDROMULCHED UNLESS SHOWN OTHERWISE IN THE PLANS.
- ALL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE. ITFMS.

- AREAS ARE STABILIZED

# DEMOLITION NOTES

- IN FULL SECTIONS. FARGO.

# SEEDING NOTES

- ALL SEEDING MIX SHALL CONSIST OF THE FOLLOWING: -PERENNIAL RYEGRASS = 50 LBS OF LIVE SEED PER ACRE -PARK KENTUCKY BLUEGRASS = 50 LBS OF LIVE SEED PER ACRE -DURAHARD FESCUE = 30 LBS OF LIVE SEED PER ACRE -TOTAL LBS PER ACRE = 130
- -FERTILIZER TYPE = 5-10-5 -FERTILIZER APPLICATION RATE = 50 LBS PER ACRE
- 2. CULTIVATE OR DISK TOPSOIL TO A DEPTH OF APPROXIMATELY 3".
- 4. PLANT SEEDS TO A DEPTH BETWEEN  $\frac{1}{4}$ " AND  $\frac{3}{4}$ ".
- 6. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING TO PREVENT EROSION AND PROMOTE EARLIER VEGETATION COVER.
- AND COVERAGE OF 90%.
- TEMPORARY TRAFFIC CONTROL NOTES: PRECONSTRUCTION MEETING.
- FOR REVIEW.
- REGULATIONS.

# LEGEND

ALL DE-WATERING AS NECESSARY TO MEET REQUIRED
DY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS
OR FILTERED PRIOR TO ITS DISCHARGE INTO SURFACE WATERS
ATER MUST BE DISCHARGED THROUGH A PIPE, WELL GRASSED OR
ALENT MEANS SUCH THAT DISCHARGE DOES NOT CAUSE EROSION
S DE-WATERING OF RAINWATER, GROUND WATER, OR ANY
/IPACTS TO SITE CONSTRUCTION.

11. TOP SOIL OR OTHER SOIL/CLAY STOCKPILES ARE NOT TO BE LOCATED WITHIN FLOW PATHS, BASES OF

12. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, SEDIMENT REMOVAL/CLEANING, AND REPLACEMENT AS REQUIRED FOR ALL EROSION AND SEDIMENT CONTROL

13. CONTRACTOR IS RESPONSIBLE FOR SWEEPING AND CLEANING ANY SEDIMENT TRACKED ONTO ADJACENT ROADWAYS DURING CONSTRUCTION AS NEEDED TO KEEP STREETS CLEAR OF SEDIMENT. 14. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS FOR LAYDOWN PATTERN, REQUIRED OVERLAP WIDTH, TRENCHING, STAPLE PATTERN, ETC. 15. CHEMICAL STORAGE ONSITE SHALL BE IN COMPLIANCE WITH THE GENERAL PERMIT. 16. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF INLET PROTECTION THROUGHOUT THE DIFFERENT PHASES OF CONSTRUCTION REGARDLESS OF THE TYPE OF PROTECTION. THE QUANTITY FOR ONE (1) INLET PROTECTION SHALL COVER INSTALLATION,

CLEANING, REPLACEMENT, ETC. FROM THE TIME THE MANHOLE IS SET UNTIL FINAL STABILIZATION OF THE ENTIRE AREA DRAINING TO THE INLET. FOR EXAMPLE: ONE (1) INLET PROTECTION QUANTITY MAY COVER BUT IS NOT LIMITED TO: SILT FENCE AROUND MANHOLE PRIOR TO LID AND CASTING BEING INSTALLED, REMOVAL OF SILT FENCE AROUND MANHOLE AFTER CASTING HAS BEEN INSTALLED, INSTALLATION OF DEVICE SUCH AS DANDY SACK INSIDE CASTING, REMOVAL OF SEDIMENT FROM DANDY SACK, REMOVAL OF DANDY SACK FROM CASTING AFTER ALL UPSTREAM

17. OWNER SHALL REFER TO THE STORMWATER MANAGEMENT PLAN FOR MAINTENANCE REQUIREMENTS OF THE PERMANENT STORMWATER QUANTITY/QUALITY CONTROL MEASURES.

CONCRETE CURB AND GUTTER TO BE REMOVED SHALL BE SAW CUT IN FULL SECTIONS. 2. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT FOR REMOVAL. PAVEMENT SHALL BE REMOVED

3. LIMITS OF STREET PATCHING AND PATCHING REQUIREMENTS SHALL BE VERIFIED WITH THE CITY OF

3. REMOVE MATERIALS GREATER THAN 1" IN DIAMETER THAT CANNOT BE BROKEN UP.

SEED ONLY WHEN WIND IS LESS THAN 15 MPH WHEN NOT USING A GRASS DRILL.

7. CONTRACTOR IS RESPONSIBLE FOR WATERING TO ESTABLISH GRASS GROWTH TO A HEIGHT OF 3"

UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS) AND ANY NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES ON AND OFF-SITE INCLUDING OBTAINING ANY APPLICABLE PERMITS. THE CONTRACTOR SHALL IDENTIFY THE TCS AND PROVIDE PROOF OF CERTIFICATION AT A

UNLESS A TEMPORARY TRAFFIC CONTROL PLAN IS INCLUDED WITH THE DESIGN DOCUMENTS, CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED TRAFFIC CONTROL PLAN TO THE ENGINEER

CONTRACTOR IS RESPONSIBLE TO INSTALL, INSPECT, MAINTAIN, AND REMOVE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST STANDARDS AND REQUIREMENTS OF THE MUTCD, STANDARD HIGHWAY SIGNS AND MARKINGS BOOK PUBLISHED BY THE FHWA, AND LOCAL

4. CHANGES TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER, ENGINEER, AND PERMITTING AUTHORITY IF APPLICABLE.

			LEGEN
÷C÷	EX. LIGHT POLE	•	NE
÷C÷	NEW LIGHT POLE	O Ø	EX. RIG
$\bigcirc$	EX. POWER POLE	Ä	PR
)	EX. GUY-LINE	<b>*</b>	BO
$\odot$	EX. CLEAN OUT	$\nabla$	
0	NEW CLEAN OUT	=	HIG
$\bigcirc$	EX. SANITARY MANHOLE	(#)	PA
	NEW SANITARY MANHOLE	DS●	DO
$\bigcirc$	EX. STORM MANHOLE	$\bigcirc$	BO
	NEW STORM MANHOLE	XX	——— EX.
	EX. STORM CATCH BASIN	XX-	NE'
	NEW STORM CATCH BASIN		— <u></u> EX.
$\triangleright$	EX. CULVERT FLARED END	· · ·	– · — SET
$\triangleright$	NEW CULVERT FLARED END		-—— EX.
- minet	DRAINAGE FLOW DIRECTION		– — — NE'
¢	EX. GATE VALVE		— — EX.
	NEW GATE VALVE		NE'
	<ex. fittings<="" td="" waterline=""><td></td><td>PR(</td></ex.>		PR(
* KAMMA	NEW WATERLINE FITTINGS		EX.
	NEW TAPPING SLEEVE & VALVE		
<u> </u>	EX. HYDRANT		NE'
<b>.</b>	NEW HYDRANT & VALVE		——— EX.
	PIPE INSULATION	RW	NE
	EX. SIGN	SS -	——— EX.
	NEW SIGN	ss-	NE
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19jt	EX. STUMP	SFM	
Ó	EX. SHRUB	WW -	
er and a second		WW -	
de la constante	EX. DECIDUOUS TREE	STST	
		ST ST	
	EX. CONIFEROUS TREE	DTDT	
	EX. ELECTRICAL TRANSFORMER	DT DT DT	
-		STFM	
	EX. UTILITY PEDISTAL	SF SF	
<b>E</b>	ELEC MANHOLE EXIST		SIL

# ABBREVIATIONS

ADJ ALT ARCH ACP BIT BLDG BM B.O. B.O.P. BV BVCE	ADJACENT ALTERNATE ARCHITECT ASBESTOS CEMENT PIPE BITUMINOUS BUILDING BENCHMARK BY OWNER/BY OTHERS BEGINNING OF PROJECT BUTTERFLY VALVE BEGINNING VERTICAL CURVE ELEVATION	ELEV ENCL E.O.P. E.J. EX. EX.A. EVCE EVCS FD FFE FO FTG	ELEVATION ENCLOSURE END OF PROJE EXPANSION JC EXISTING EACH WAY END VERTICAL END VERTICAL FIRE DEPARTM FIRST FLOOR E FIBER OPTICS FOOTING
BVCS	BEGINNING VERTICAL CURVE STATION	G.C. GALV	GENERAL CON GALVANIZED
С	CIVIL	GAL	GALLON
B.P.	CAST IRON	GRAN	GRANULAR
CIP	CAST IRON PIPE	GV	GATE VALVE
CU	COPPER	HDPE	HIGH DENSITY
CMP	CORRUGATED METAL PIPE	HORZ	HORIZONTAL
CJ	CONTROL JOINT	HB	HOSE BIB
CONC	CONCRETE	HDCP	HANDICAPPED
CF	CUBIC FEET	HYD	HYDRANT
CS	CURB STOP	I	INLET
C.O.	CLEAN OUT	К	CURVATURE V
CNTR	CENTER	Μ	MECHANICAL
CONST	CONSTRUCTION	MH	MANHOLE
CONTR	CONTRACTOR	MAX	MAXIMUM
CY	CUBIC YARD	MIN	MINIMUM
DIA	DIAMETER	M.J.	MECHANICAL
DIP	DUCTILE IRON PIPE	MISC.	MISCELLANEO
DEMO	DEMOLITION	NC	NON-CORROS
DTL	DETAIL	NOM	NOMINAL
DIM	DIMENSION	NIC	NOT IN CONTR
DOM	DOMESTIC	NTS	NOT TO SCALE
D.S.	DOWN SPOUT	OD	OUTSIDE DIMI
DWG	DRAWING	OCEW	ON CENTER EA
DWL	DOWEL	OC	ON CENTER
EA	EACH	OHE	OVERHEAD EL
ELEC	ELECTRIC	P.C.	PRECAST CON

EW PROPERTY PIN SET PROPERTY PIN FOUND IGHT OF WAY MARKER ROJECT BENCHMARK ORING LOCATION IGH WATER LINE ARKING COUNT OWN SPOUT OLLARD (. FENCE EW FENCE (. GUARDRAIL ET BACK . EASEMENT

EW EASEMENT (. PROPERTY LINE EW ROW/PROPERTY LINE ROPERTY BOUNDARY LINE

X. CURB EW CURB(INFLOW) EW CURB(OUTFLOW) (. RETAINING WALL EW RETAINING WALL (. SANITARY SEWER EW SANITARY SEWER

(. SANITARY FORCE MAIN EW SANITARY FORCE MAIN (. WATER EW WATER

X. STORM SEWER

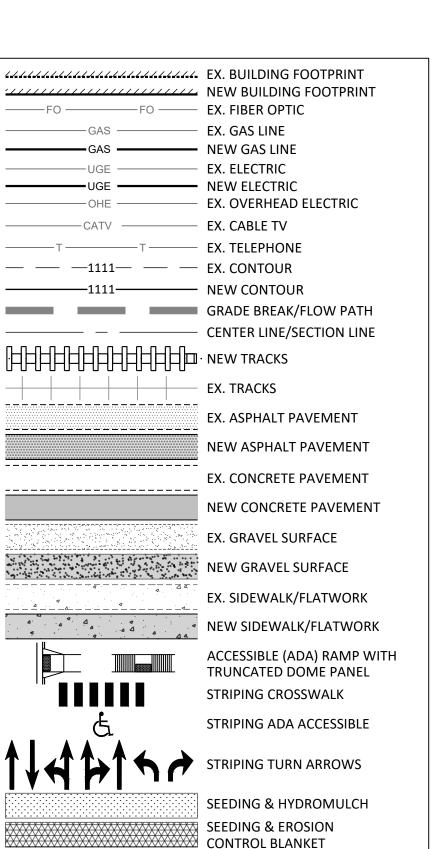
EW STORM SEWER (. DRAIN TILE

EW DRAIN TILE

**K. STORM FORCE MAIN** 

EW STORM FORCE MAIN LT FENCE





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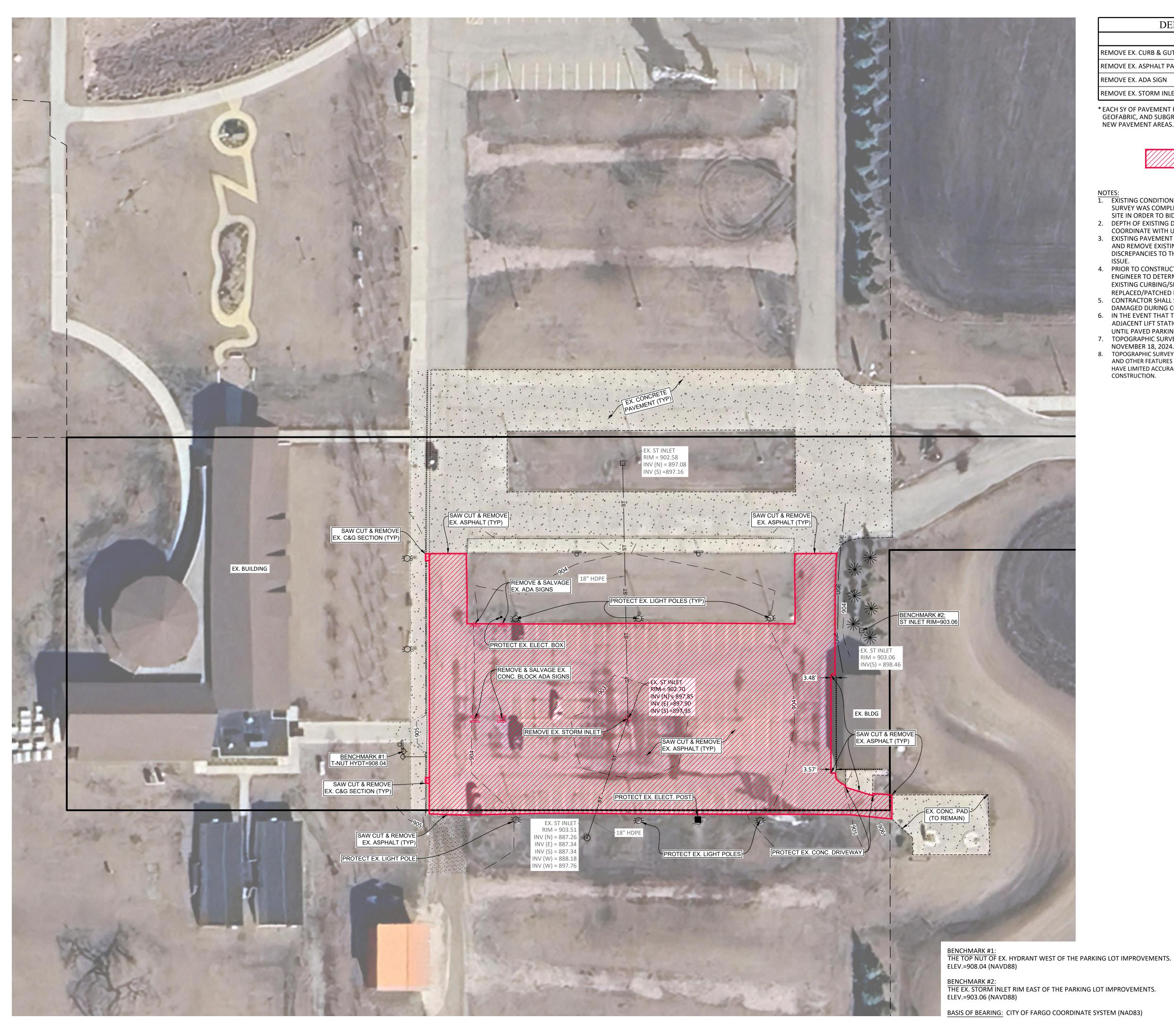
DRAWN BY: JT / KD

JN: 24-060

**GENERAL NOTES & LEGEND** TROLLWOOD

SHEET





#### **DEMOLITION CALLOUTS\*\*** QUANTITY UNIT ITEM I LF REMOVE EX. CURB & GUTTER 12 4,070 REMOVE EX. ASPHALT PAVEMENT SV REMOVE EX. ADA SIGN EA 6 **REMOVE EX. STORM INLET** EA 1

\* EACH SY OF PAVEMENT REMOVALS SHALL INCLUDE REMOVAL OF EXISTING BASE, GEOFABRIC, AND SUBGRADE OF UP TO 12" BELOW FINISHED DESIGN GRADE OF NEW PAVEMENT AREAS.

- REMOVAL AREAS

# NOTES

- 1. EXISTING CONDITIONS SHOWN ARE BASED ON OBSERVATIONS AT THE TIME THE SURVEY WAS COMPLETED. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE IN ORDER TO BID APPROPRIATELY. QUANTITIES SHOWN AS ESTIMATES.
- 2. DEPTH OF EXISTING DRY UTILITIES ARE UNKNOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR CROSSINGS AND IMPACTS.
- 3. EXISTING PAVEMENT DEPTHS ARE UNKNOWN. CONTRACTOR SHALL SAW CUT AND REMOVE EXISTING PAVEMENT AREAS IN FULL SECTIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY TO EVALUATE OR RESOLVE THE ISSUE.
- 4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE EXACT AMOUNT AND LOCATIONS OF THE EXISTING CURBING/SIDEWALK/PAVEMENT TO BE REMOVED AND
- REPLACED/PATCHED NECESSARY FOR THE PROJECT IMPROVEMENTS. 5. CONTRACTOR SHALL SAW CUT AND REPLACE ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
- 6. IN THE EVENT THAT THE CITY REQUIRES ACCESS TO BE MAINTAINED TO THE ADJACENT LIFT STATION, CONTRACTOR TO PROVIDE TEMPORARY RAMP ACCESS UNTIL PAVED PARKING LOT IMPROVEMENTS ARE REPLACED/FULLY ESTABLISHED. 7. TOPOGRAPHIC SURVEY WAS CONDUCTED BY LOWRY ENGINEERING ON NOVEMBER 18, 2024.
- 8. TOPOGRAPHIC SURVEY WAS COMPLETED DURING WINTER MONTHS. UTILITY LOCATES AND OTHER FEATURES THAT ARE INACCESSIBLE DUE TO WINTER CONDITIONS MAY HAVE LIMITED ACCURACY. CONTRACTOR SHALL VERIFY LOCATIONS/INVERTS PRIOR TO CONSTRUCTION.



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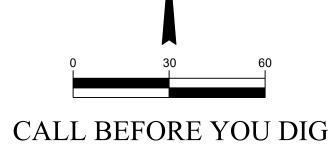
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DRAWN BY: JT / KD JN: 24-060 **SURVEY OVERLAY &** DEMOLITION PLAN TROLLWOOD

SHEET

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MINNESOTA UTILITIES UNDERGROUND LOCATION SERVICE 1-800-252-1166

THE EX. STORM INLET RIM EAST OF THE PARKING LOT IMPROVEMENTS.

BASIS OF BEARING: CITY OF FARGO COORDINATE SYSTEM (NAD83)



# ESTIMATED SITE QUANTITIES\*

ITEM	QUANTITY	UNIT
SUBGRADE PREPARATION	4,100	SY
MnDOT TYPE V GEOSYNTHETIC FABRIC	4,100	SY
MnDOT CLASS 5 AGGREGATE	690	СҮ
CONCRETE PAVEMENT - FLATWORK 6"	4,015	SY
CURB & GUTTER - MATCH EXISTING TYPE	12	LF
PAVEMENT MARKING - PAINTED PARKING LOT STRIPING	2,270	LF
PAVEMENT MARKING - PAINTED ADA SYMBOL	6	EA

\* ALL BLACK DIRT/SEEDING/GRADING BEHIND NEW CURBING AND PAVEMENT AREAS ARE INCIDENTAL TO THE PROJECT. WATERING THE SEEDING UNTIL IT IS FULLY ESTABLISHED IS INCIDENTAL TO THE PROJECT.

BASE BID NOTES:

- 1. QUANTITIES ARE ENGINEERS ESTIMATES ONLY. CONTRACTOR SHALL DETERMINE THEIR OWN QUANTITIES AND BID ACCORDINGLY. 2. AGGREGATE BASE QUANTITY ASSUMES IT EXTENDS TO 1' BEYOND BACK OF
- CURB OR EDGE OF PAVEMENT UNLESS ADJACENT TO STRUCTURE OR EXISTING PAVEMENT SAW CUT SECTIONS. 3. NO COMPACTION WAS ASSUMED ON AGGREGATE BASE QUANTITIES.
- 4. GEOTEXTILE FABRIC PANELS SHALL BE A MINIMUM OF 12' WIDE AND INSTALLED WITH A MINIMUM OVERLAP OF 18" WITH JOINTS ORIENTATED TO FOLLOW TRAFFIC MOVEMENT. GEOTEXTILE FABRIC SHALL EXTENDS TO 1' BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT UNLESS ADJACENT TO STRUCTURE OR EXISTING PAVEMENT SAW CUT SECTIONS.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE EXACT AMOUNT AND LOCATIONS OF THE EXISTING CURBING/SIDEWALK/PAVEMENT TO BE REMOVED AND REPLACED/PATCHED NECESSARY FOR THE PROJECT IMPROVEMENTS.

QUANTITY	UNIT
115	СҮ
-4,015	SY
4,015	SY
	115 -4,015

\* ALL BLACK DIRT/SEEDING/GRADING BEHIND NEW CURBING AND PAVEMENT AREAS ARE INCIDENTAL TO THE PROJECT. WATERING THE SEEDING UNTIL IT IS FULLY ESTABLISHED IS INCIDENTAL TO THE PROJECT.

ALTERNATE #1 NOTES:

- 1. IF THE ALTERNATIVE ASPHALT PAVEMENT IS CHOSEN, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON THE EXACT LOCATIONS FOR ANY NEW VALLEY GUTTER SECTIONS TO BE INSTALLED.
- QUANTITIES ARE ENGINEERS ESTIMATES ONLY. CONTRACTOR SHALL DETERMINE THEIR OWN QUANTITIES AND BID ACCORDINGLY.
- AGGREGATE BASE QUANTITY ASSUMES IT EXTENDS TO 1' BEYOND BACK OF CURB OR EDGE OF PAVEMENT UNLESS ADJACENT TO STRUCTURE OR EXISTING PAVEMENT SAW CUT SECTIONS.
- NO COMPACTION WAS ASSUMED ON AGGREGATE BASE QUANTITIES. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE EXACT AMOUNT AND LOCATIONS OF THE EXISTING CURBING/SIDEWALK/PAVEMENT TO BE REMOVED AND REPLACED/PATCHED NECESSARY FOR THE PROJECT IMPROVEMENTS.



THE EX. STORM INLET RIM EAST OF THE PARKING LOT IMPROVEMENTS.

BASIS OF BEARING: CITY OF FARGO COORDINATE SYSTEM (NAD83)

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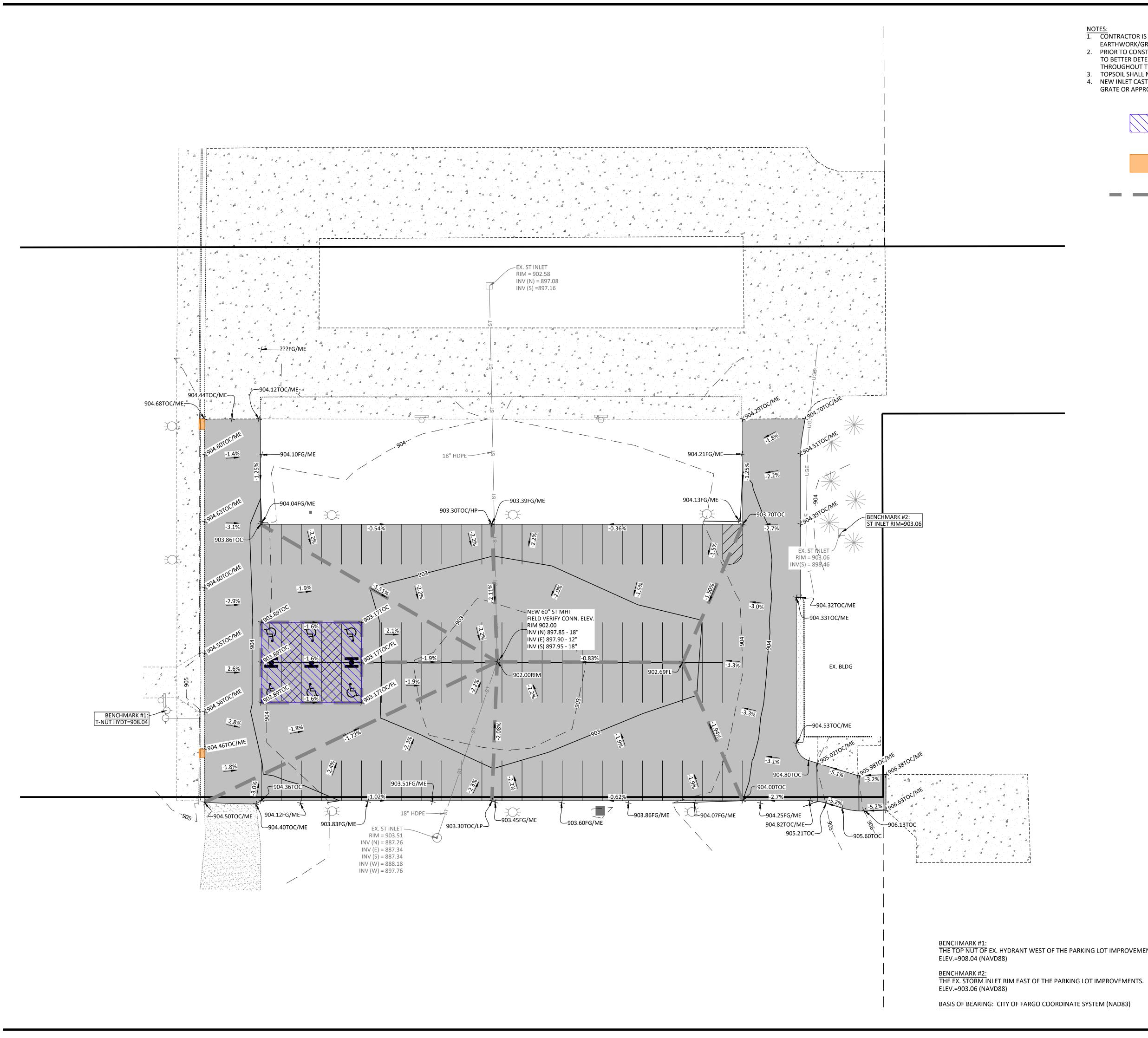
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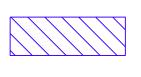
# **OVERALL SITE PLAN** TROLLWOOD





NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR CALCULATING THEIR OWN

- EARTHWORK/GRADING TAKEOFF QUANTITIES FOR THE PROPOSED SITE. 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE TO BETTER DETERMINE THE NECESSARY AMOUNT OF STRIPPING TO OCCUR THROUGHOUT THE SITE.
- 3. TOPSOIL SHALL NOT BE USED AS FILL UNDER THE PAVEMENT AREAS. 4. NEW INLET CASTING WITHIN PAVED PARKING LOT SHALL BE EJIW 1205 TYPE M GRATE OR APPROVED EQUAL.



- ADA ACCESSIBLE ROUTE MEET ADA GRADING REQUIREMENTS

- CONTRACTOR TO MATCH EX. C&G SECTION SIZE & GRADE ELEVATIONS.

- FG RIM тс TOC ΤW
- GRADE BREAK / FLOW PATH FINISH GROUND FLOWLINE HIGH POINT LOW POINT MATCH EXISTING GROUND STRUCTURE RIM ELEVATION TOP OF CURB/THICKENED EDGE TOP OF CONCRETE TOP OF WALK



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DREW MESSMER DATE: 12/18/24 LICENSE #: 62823

**DRAWING HISTORY** 

NO. DESCRIPTION CONSTRUCTION DOCUMENTS

DATE 12/18/24

JN: 24-060

DRAWN BY: JT / KD

**GRADING & UTILITY PLAN** TROLLWOOD



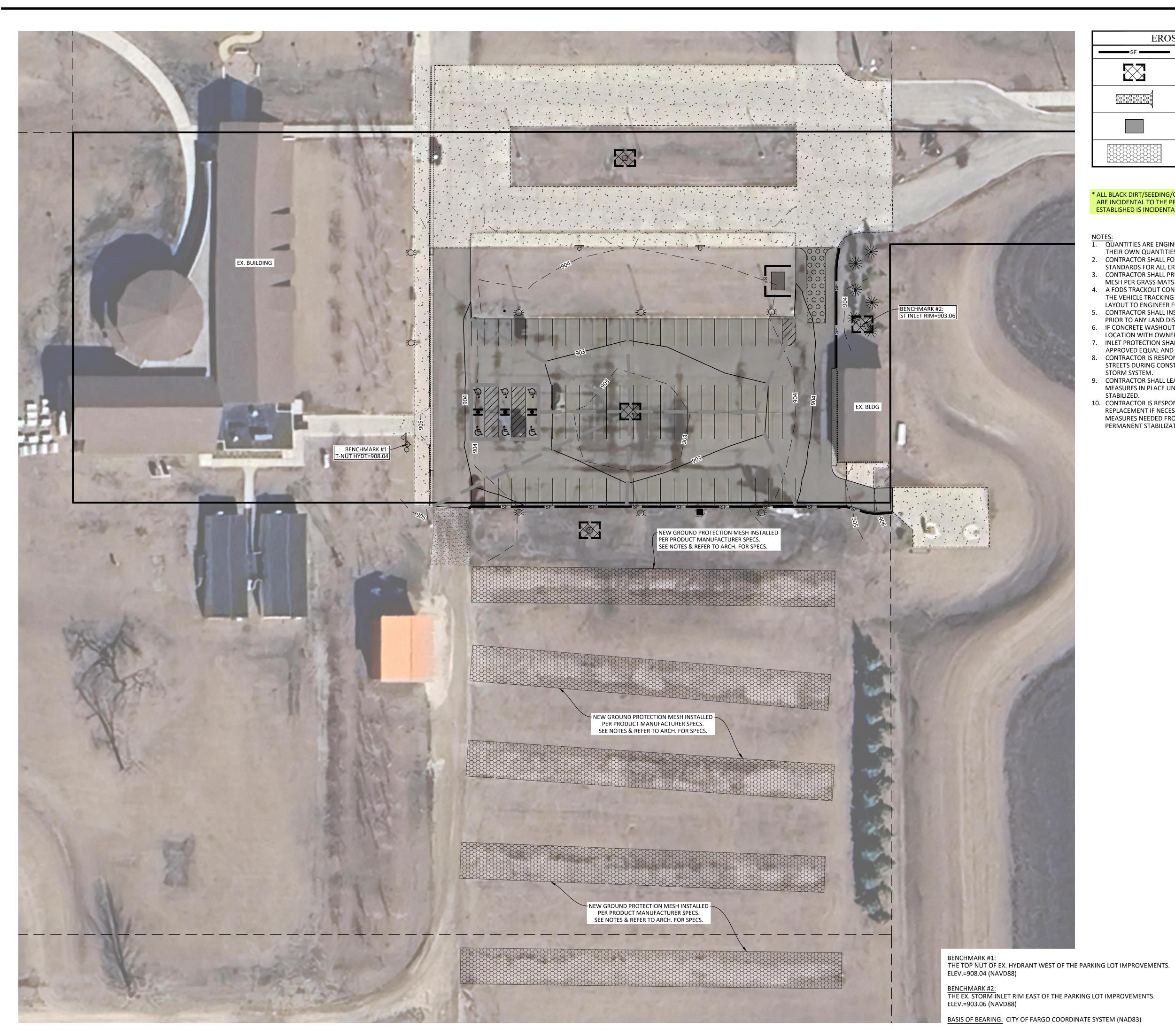


THE TOP NUT OF EX. HYDRANT WEST OF THE PARKING LOT IMPROVEMENTS.

BASIS OF BEARING: CITY OF FARGO COORDINATE SYSTEM (NAD83)

CALL BEFORE YOU DIG NORTH DAKOTA UTILITIES UNDERGROUND LOCATION SERVICE 1-800-795-0555

(N)



# FROSION CONTROL LEGEND

ERUSION CONTROL LEGEND			
SF	SILT FENCE	420	LF
	STANDARD INLET PROTECTION	4	EA
000000000000000000000000000000000000000	VEHICLE TRACKING PAD	1	EA
	CONCRETE WASHOUT	1	EA
	GROUND PROTECTION MESH	3,260	SY

\* ALL BLACK DIRT/SEEDING/GRADING BEHIND NEW CURBING AND PAVEMENT AREAS ARE INCIDENTAL TO THE PROJECT. WATERING THE SEEDING UNTIL IT IS FULLY ESTABLISHED IS INCIDENTAL TO THE PROJECT.

#### NOTES:

- 1. QUANTITIES ARE ENGINEERS ESTIMATES ONLY. CONTRACTOR SHALL DETERMINE THEIR OWN QUANTITIES AND BID ACCORDINGLY.
- 2. CONTRACTOR SHALL FOLLOW MPCA STORMWATER POLLUTION PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL PREP GROUND TO INSTALL NEW GROUND PROTECTION
- MESH PER GRASS MATS USA LLC PRODUCT SPECIFICATIONS. 4. A FODS TRACKOUT CONTROL MAT MAY BE USED AS AN APPROVED EQUAL TO THE VEHICLE TRACKING PAD. CONTRACTOR SHALL SUBMIT PROPOSED MAT
- LAYOUT TO ENGINEER FOR REVIEW PRIOR TO INSTALLING. 5. CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS PRIOR TO ANY LAND DISTURBING ACTIVITY.
- 6. IF CONCRETE WASHOUT WILL OCCUR ONSITE, CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER AND ENGINEER.
- 7. INLET PROTECTION SHALL BE BY DANDY PRODUCTS, ERTEC, FLEXSTORM, OR APPROVED EQUAL AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. 8. CONTRACTOR IS RESPONSIBLE FOR SWEEPING AND CLEANING ADJACENT STREETS DURING CONSTRUCTION TO PREVENT SEDIMENT RUNOFF TO CITY STORM SYSTEM.
- CONTRACTOR SHALL LEAVE TEMPORARY EROSION AND SEDIMENT CONTROL 9. MEASURES IN PLACE UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 10. CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MAINTENANCE, REPLACEMENT IF NECESSARY, REMOVAL, ETC OF ANY AND ALL PROTECTION MEASURES NEEDED FROM THE START OF CONSTRUCTION UNTIL FINAL PERMANENT STABILIZATION IS ACHIEVED.





# FARGO PUBLIC SCHOOLS

## TROLLWOOD **PERFORMING ARTS** 801 50TH AVE S MOORHEAD, MN 56560

STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

## ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

CIVIL

LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE

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.

DREW ME DATE: 12/18/24 LICENSE #: 62823

**DRAWING HISTORY** 

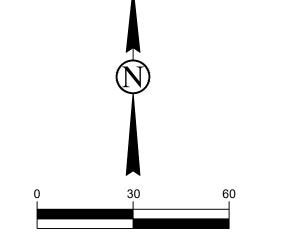
NO. DESCRIPTION

DATE CONSTRUCTION DOCUMENTS 12/18/24

DRAWN BY: JT / KD JN: 24-060 **EROSION & SEDIMENT CONTROL PLAN** TROLLWOOD

SHEET

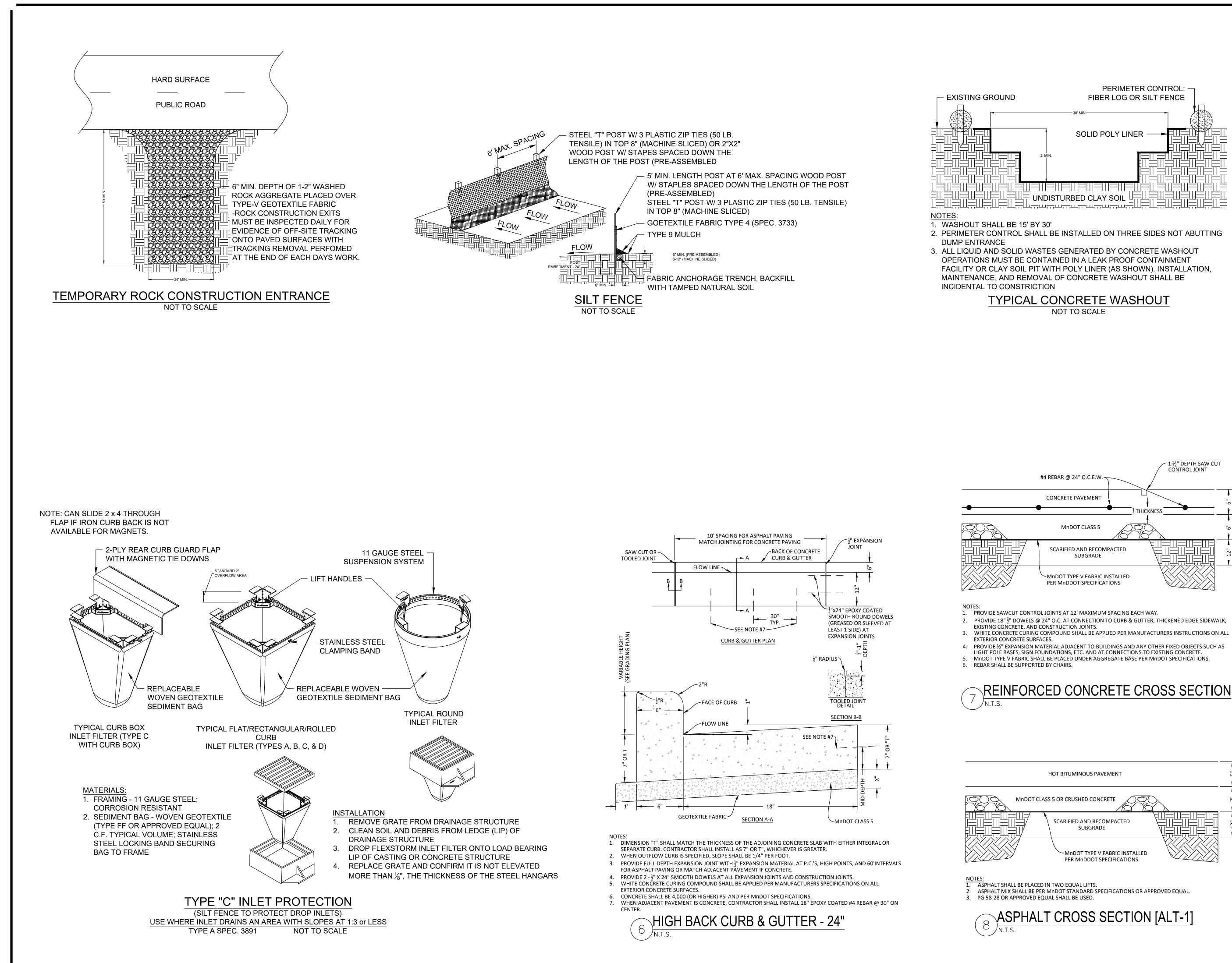
**T-C6** 



THE EX. STORM INLET RIM EAST OF THE PARKING LOT IMPROVEMENTS.

BASIS OF BEARING: CITY OF FARGO COORDINATE SYSTEM (NAD83)

CALL BEFORE YOU DIG MINNESOTA UTILITIES UNDERGROUND LOCATION SERVICE 1-800-252-1166

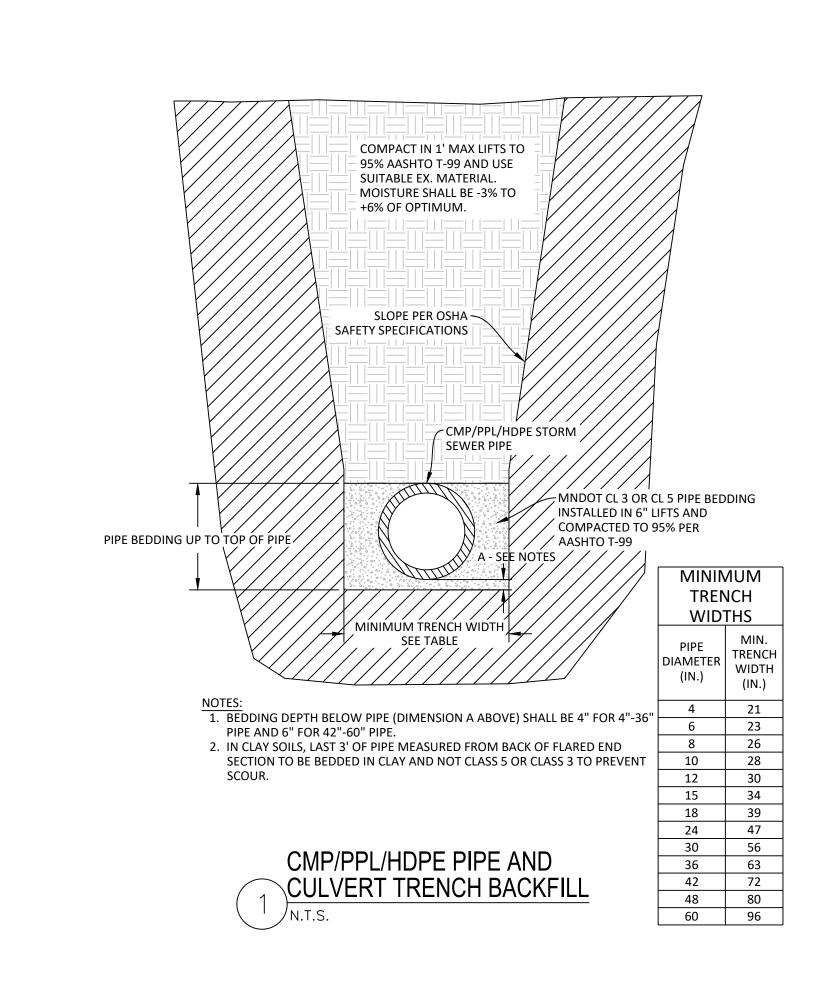


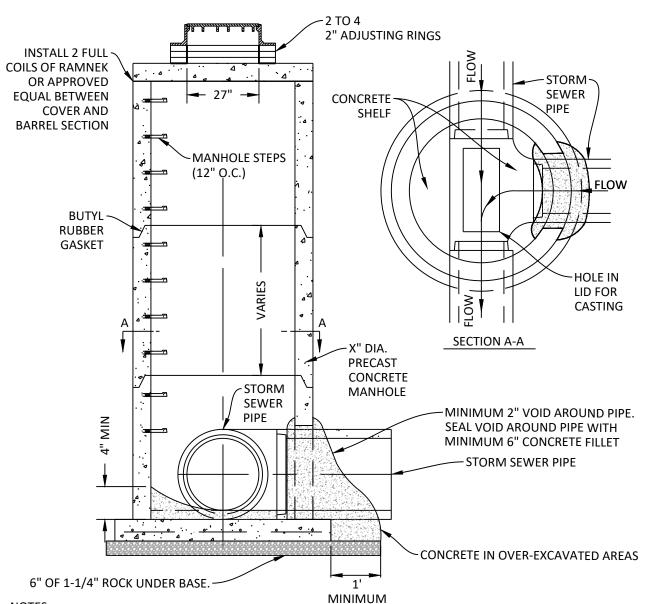
SCHOOLS
TROLLWOOD PERFORMING ARTS 801 50TH AVE S MOORHEAD, MN 56560
<b>STRUCTURAL</b> HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104
(701) 280.0949 OFFICE <b>ELECTRICAL</b> CMTA 2201 12TH ST N STE E FARGO, ND 58102
(701) 280.0500 OFFICE <b>CIVIL</b> LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104
(701) 235.0199 OFFICE
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DREW MESSMER DATE: 12/18/24 LICENSE #: 62823
DRAWING HISTORY         NO.       DESCRIPTION       DATE         CONSTRUCTION DOCUMENTS       12/18/24
DRAWN BY: JT / KD JN: 24-060
DETAILS TROLLWOOD
SHEET T-C7

ARCHITECTURAL GROUP

4000 GARDEN VIEW DRIVE, SUITE 101 GRAND FORKS, ND 58201 P. 701.772.4266 | F. 701.772.4275 WWW.ICONARCHITECTS.COM

**FARGO PUBLIC** 





NOTES: 1. ALL ROUND MANHOLES SHALL MEET REQUIREMENTS OF ASTM C478.

- LIFT HOLES TO BE MANUFACTURED WATER PROOF.
   BACKFILL AROUND MANHOLE IN 1' MAX LIFTS TO 95% PER AASHTO T-99. USE EXISTING MATERIAL UNLESS NOTED OTHERWISE. MOISTURE SHALL BE -3% TO +6% OF OPTIMUM.
- CASTING TYPE PER MANHOLE SCHEDULE.
   SOLID COVERS SHALL BE CAST WITH THE WORD "STORM" IN THE CENTER OF THE COVER IN LETTERS 2" HIGH.
   CONTRACTOR MAY USE CONCRETE OR HDRE RINGS, IE HDRE RINGS ARE UTUIZED. SULCONE SEAL SHALL BE USE
- CONTRACTOR MAY USE CONCRETE OR HDPE RINGS. IF HDPE RINGS ARE UTILIZED, SILICONE SEAL SHALL BE USED IN BETWEEN RINGS PER MANUFACTURER RECOMMENDATIONS. IF CONCRETE RINGS ARE USED, GROUT SHALL BE USED BETWEEN, OUTSIDE, AND INSIDE OF RINGS. GROUT SHALL MEET REQUIREMENTS OF ASTM C270.
   REBAR AND WALL THICKNESS PER MANUFACTURERS RECOMMENDATION.
- IF MANHOLE IS USED AS A CURB & GUTTER INLET, THE MANHOLE SHALL HAVE HOLE AVAILABLE FOR CONNECTION TO CURB & GUTTER DRAIN TILE AS REQUIRED.
- BUTYL RUBBER GASKET ON ALL JOINTS. GASKET SHALL MEET ASTM C443 REQUIREMENTS.
   DOGHOUSE TO BE CONCRETED INSIDE AND OUT WITH 3,000 PSI CONCRETE. CONCRETE SHALL BE VIBRATED AND TROWL FINISHED.
- WHEN STRUCTURE IS INSTALLED IN THE CURB LINE, THE CONTRACTOR SHALL SET MANHOLE SO THAT BACK OF CASTING ALIGNS WITH CURB FLOW LINE.
   ALL ROUND MANHOLES/INLETS SHALL HAVE A MINIMUM HEIGHT OF SIX (6) FEET FROM RIM TO BOTTOM OF
- STRUCTURE. IF LOWEST INVERT IS ABOVE THIS, CONTRACTOR SHALL FILL BOTTOM VOID WITH 4,000 PSI CONCRETE AND FORM INVERTS ACCORDINGLY.



ARCHITECTURAL GROUP

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FARGO PUBLIC SCHOOLS

### TROLLWOOD PERFORMING ARTS 801 50TH AVE S MOORHEAD, MN 56560

STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

**CIVIL** LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104

(701) 235.0199 OFFICE

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.

DATE: 12/18/24 LICENSE #: 62823

NO. DESCRIPTION

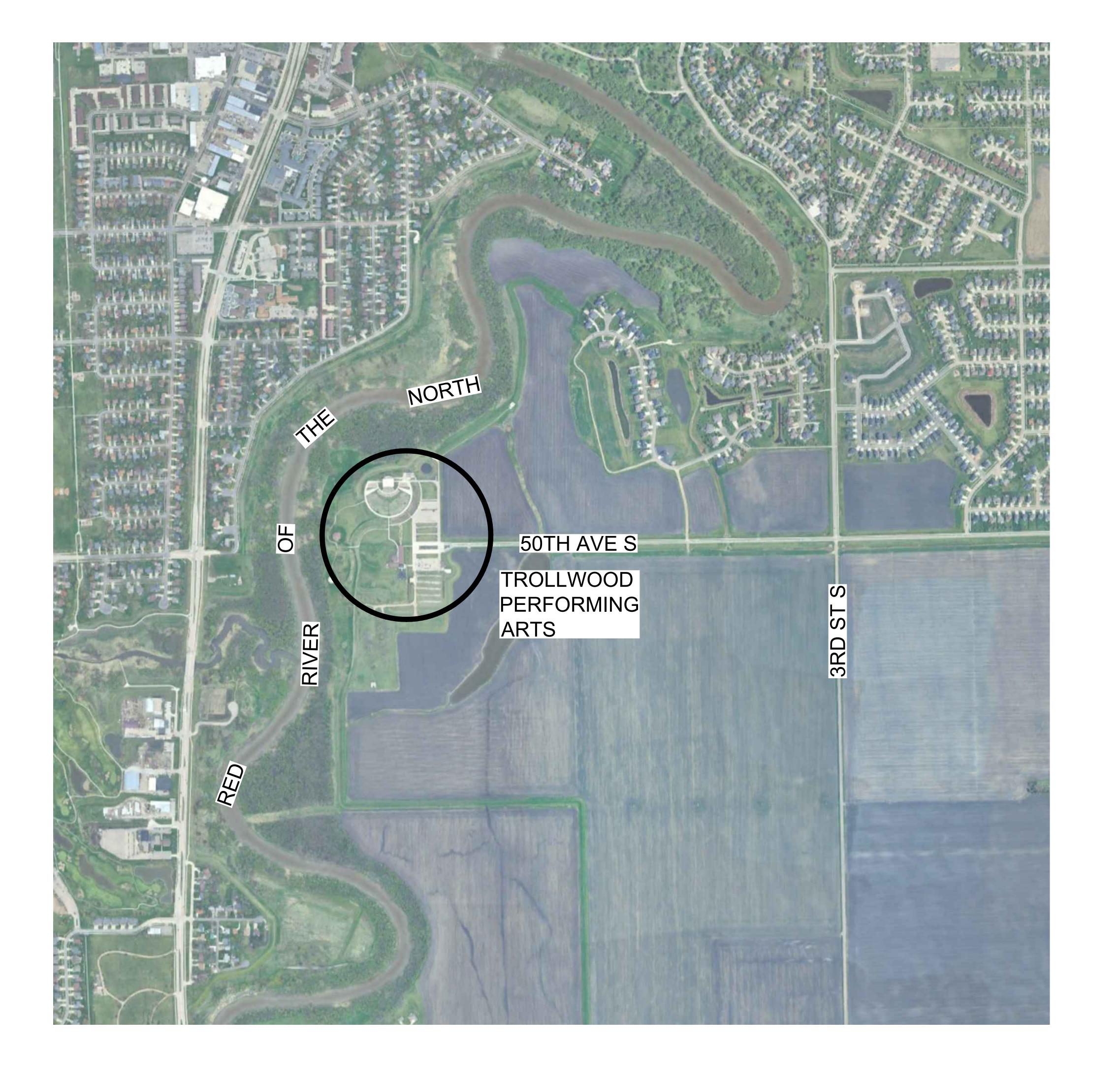
DESCRIPTION DATE CONSTRUCTION DOCUMENTS 12/18/24

DRAWN BY: JT / KD

JN: 24-060

DETAILS TROLLWOOD





# **SCOPE OF WORK**

REPLACE SOUTH PAVED LOT REINFORCE DRIVE LANES OF GRASS PARKING LOT REPLACE HANDRAILS AT PORTABLE CLASSROOMS REPLACE FLUORESCENT LIGHTING FIXTURES AT PORTABLE CLASSROOMS REPLACE DOMESTIC WATER HEATER AT PORTABLE CLASSROOM REPLACE CARPET AT PORTABLE CLASSROOMS

REFINISH WOOD LAMINATE ARCHES



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# FARGO PUBLIC SCHOOLS

TROLLWOOD **PERFORMING ARTS** 801 50TH AVE S MOORHEAD, MN 56560

> STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

> ELECTRICAL CMTA

2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

CIVIL LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE

NORTH	
ARCHITECT:	
I HEREBY CERTIFY THAT THIS PLAN, SPEC OR REPORT WAS PREPARED BY ME OR ( DIRECT SUPERVISION AND THAT I AM LICENSED ARCHITECT UNDER THE LAW STATE OF MINNESOTA.	JNDER MY A DULY
SIGNATURE: THE STREET	
PRINTED NAME:TODD BLIXT	
DATE: 12/18/24	
ICENSE NUMBER: 62763	
PRAWING HISTORY	
NO. DESCRIPTION	DATE
CONSTRUCTION DOCUMENTS	12/18/24
RAWN BY: TA/AO/AF/KD	JN: 24-060
Trollwood Performin Overall Site Pla	-







4000 GARDEN VIEW DRIVE, SUITE 101

GRAND FORKS, ND 58201

P. 701.772.4266 | F. 701.772.4275 WWW.ICONARCHITECTS.COM

# **GENERAL NOTES - SITE PLAN**

CONTRACTOR TO SAND AND PREPARE EXISTING GLULAM ARCHES AS NECESSARY AT EACH END OF THE FOUR (4) EXISTING ARCHES. CRACKS GREATER THAN OR EQUAL TO  $\frac{1}{8}$ " THICKNESS TO BE FILLED WITH EPOUR (4) EXISTING ARCHES, CRACKS GREATER THAN OR EQUAL TO 8 THICKNESS TO BE FILLED WITH EPOXY, REMOVAL OF (E) STEEL STRUTS NOT REQUIRED, PROVIDE CAULK AROUND TOP AND SIDES OF (E) STRUTS. BOTTOM OF STRUTS TO REMAIN UNCAULKED. CONTRACTOR TO RESTAIN AND RESEAL ARCH AS NECESSARY ONCE CRACK INFILL HAS OCCURED. SUBMIT PROPOSED EPOXY MATERIALS FOR APPROVAL PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES DISCOVERED.

# **KEYNOTES - SITE PLAN**

- (1) REPLACE ASPHALT PARKING LOT AND EXISTING DRAINAGE SEE CIVIL
- REPLACE ASPHALT WITH CONCRETE PAVEMENT, CURB & GUTTER
   SEE CIVIL
- 3
   REMOVE ADA PARKING SIGN AND BASE.

   SEE CIVIL FOR NEW SIGN LOCATIONS
- (4) INSTALL GROUND PROTECTION MESH AT DRIVE LANES SEE SPECIFICATIONS FOR MORE INFORMATION.
- 5 SAND AND REMOVE EXISTING STAIN & VARNISH FROM WOOD LAMINATE ARCH. FILL CRACKS & WOOD CHECKS GREATER THAN %" IN WIDTH. APPLY STAIN & CLEAR COAT FINISH. USE AN EPOXY WITH A VISCOUS, TOOTHPASTE-LIKE CONSISTENCY, AS THINNER, WATERY
  - EPOXIES CAN BE DIFFICULT TO CONTROL AND MAY SEEP EXCESSIVELY. APPLY TAPE TO THE TOP AND BOTTOM OF THE CRACKS (CHECKS) TO PROTECT THE WOOD AND PREVENT THE EPOXY FROM SPREADING. TROWEL THE VISCOUS EPOXY INTO THE CRACKS CAREFULLY FOR BETTER CONTAINMENT AND A CLEANER APPLICATION. - SEE SPECIFICATIONS FOR DETAILS



# FARGO PUBLIC SCHOOLS TROLLWOOD **PERFORMING ARTS** 801 50TH AVE S MOORHEAD, MN 56560

STRUCTURAL

HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

#### MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

ELECTRICAL

CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

CIVIL LOWRY ENGINEERING 5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE



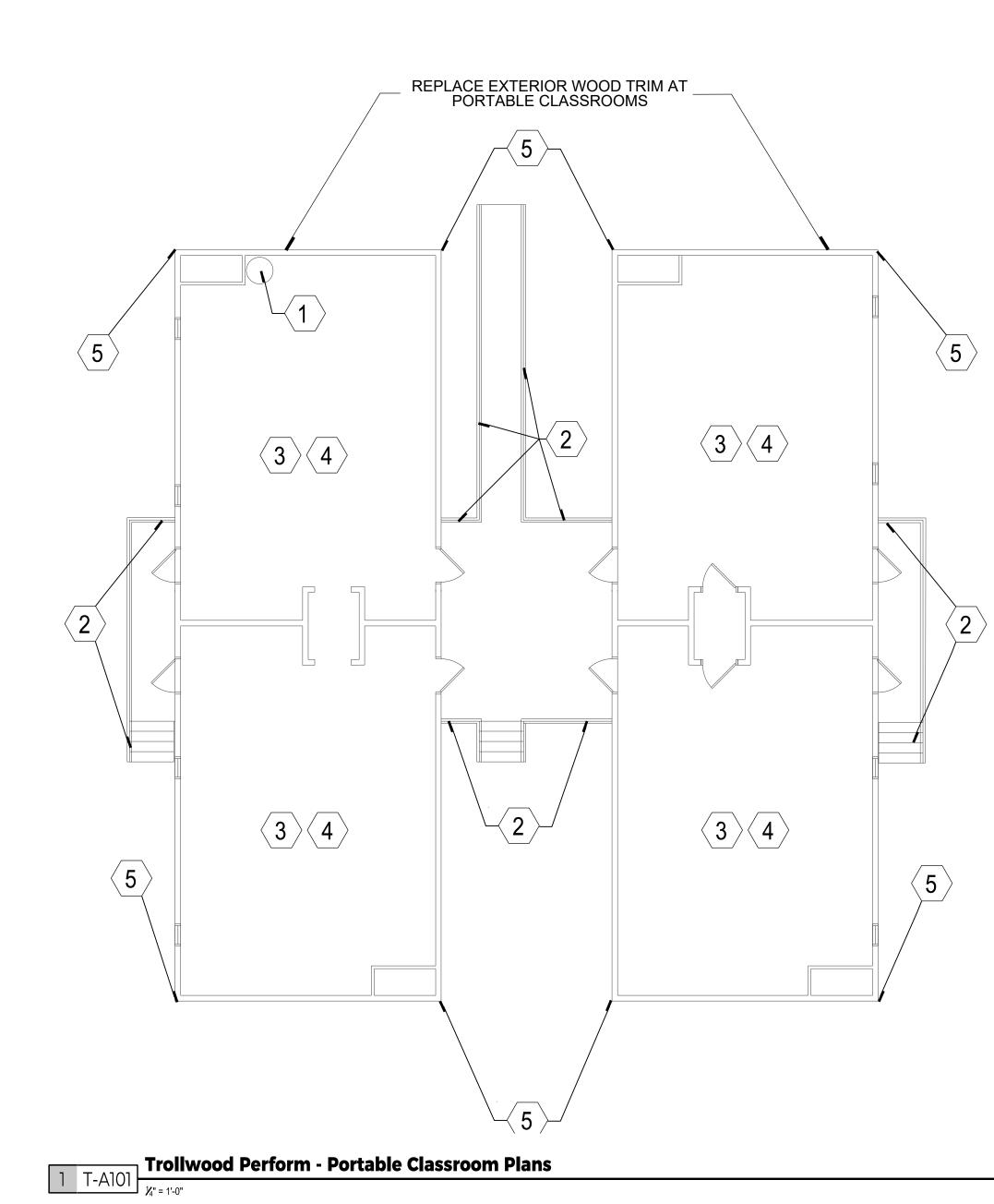
ARCHITECT:	
I HEREBY CERTIFY THAT THIS PLAN, SPE OR REPORT WAS PREPARED BY ME OR DIRECT SUPERVISION AND THAT I AM LICENSED ARCHITECT UNDER THE LAW STATE OF MINNESOTA.	UNDER MY A DULY
SIGNATURE: THIS	
PRINTED NAME: TODD BLIXT	
DATE: 12/18/24	
LICENSE NUMBER: 62763	-
DRAWING HISTORY	
NO. DESCRIPTION	DATE
CONSTRUCTION DOCUMENTS	12/18/24
DRAWN BY: TA/AO/AF/KD	JN: 24-060
Trolluced Derfermi	

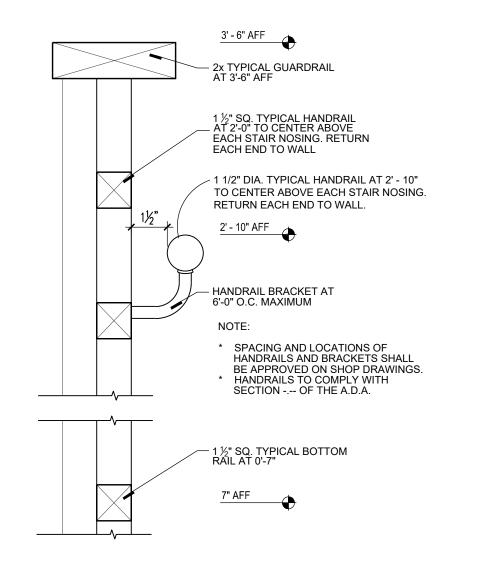
Trollwood Performing Arts Site Plan - Enlarged



# **KEYNOTES - FLOOR PLAN**

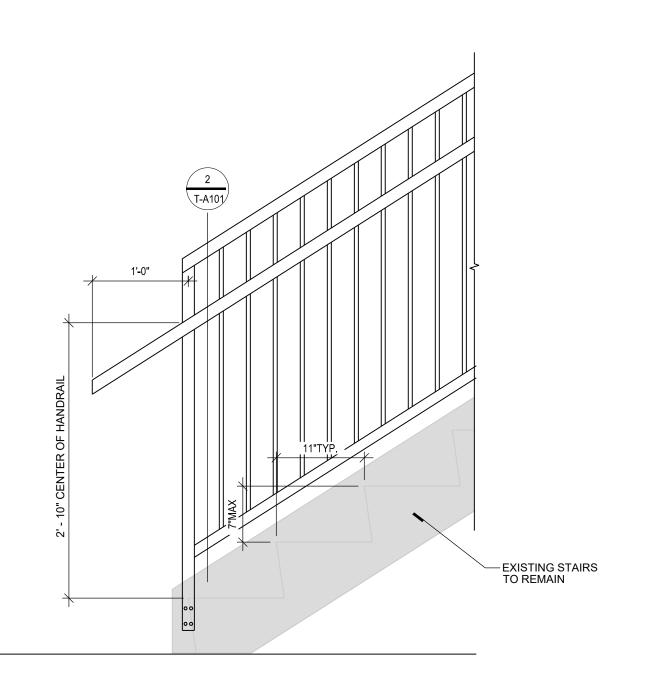
- (1) REPLACE DOMESTIC WATER HEATER LOCATED IN PORTABLE CLASSROOM SEE MECHANICAL AND ELECTRICAL
- $\langle 2 \rangle$  REPLACE HANDRAILS AND GUARDRAILS AT PORTABLE CLASSROOMS
- 3 REPLACE FLUORESCENT LIGHTING FIXTURES LOCATED IN PORTABLE CLASSROOMS
- SEE ELECTRICAL
- 4 REPLACE CARPET AT PORTABLE CLASSROOMS - SEE SPECIFICATIONS FOR MORE DETAILS.
- $\langle 5 \rangle$  REPLACE TRIM ON CORNERS OF PORTABLE CLASSROOM. COLOR AND MATERIAL TO MATCH EXISTING.



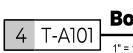


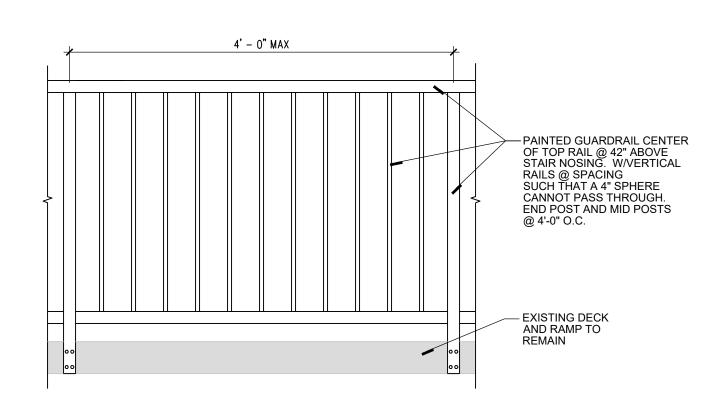


3" = 1'-0"













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FARGO PUBLIC SCHOOLS TROLLWOOD **PERFORMING ARTS** 801 50TH AVE S MOORHEAD, MN 56560

> STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104

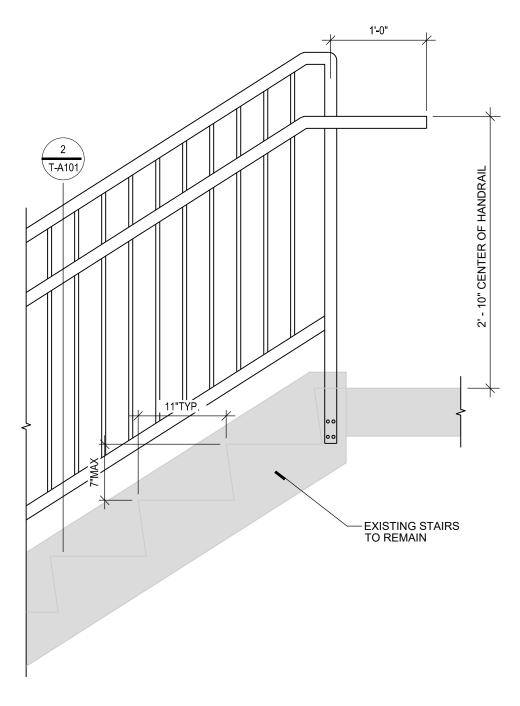
(701) 280.0949 OFFICE MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

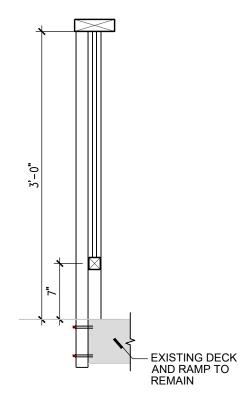
> ELECTRICAL CMTA 2201 12TH ST N STE E

FARGO, ND 58102 (701) 280.0500 OFFICE

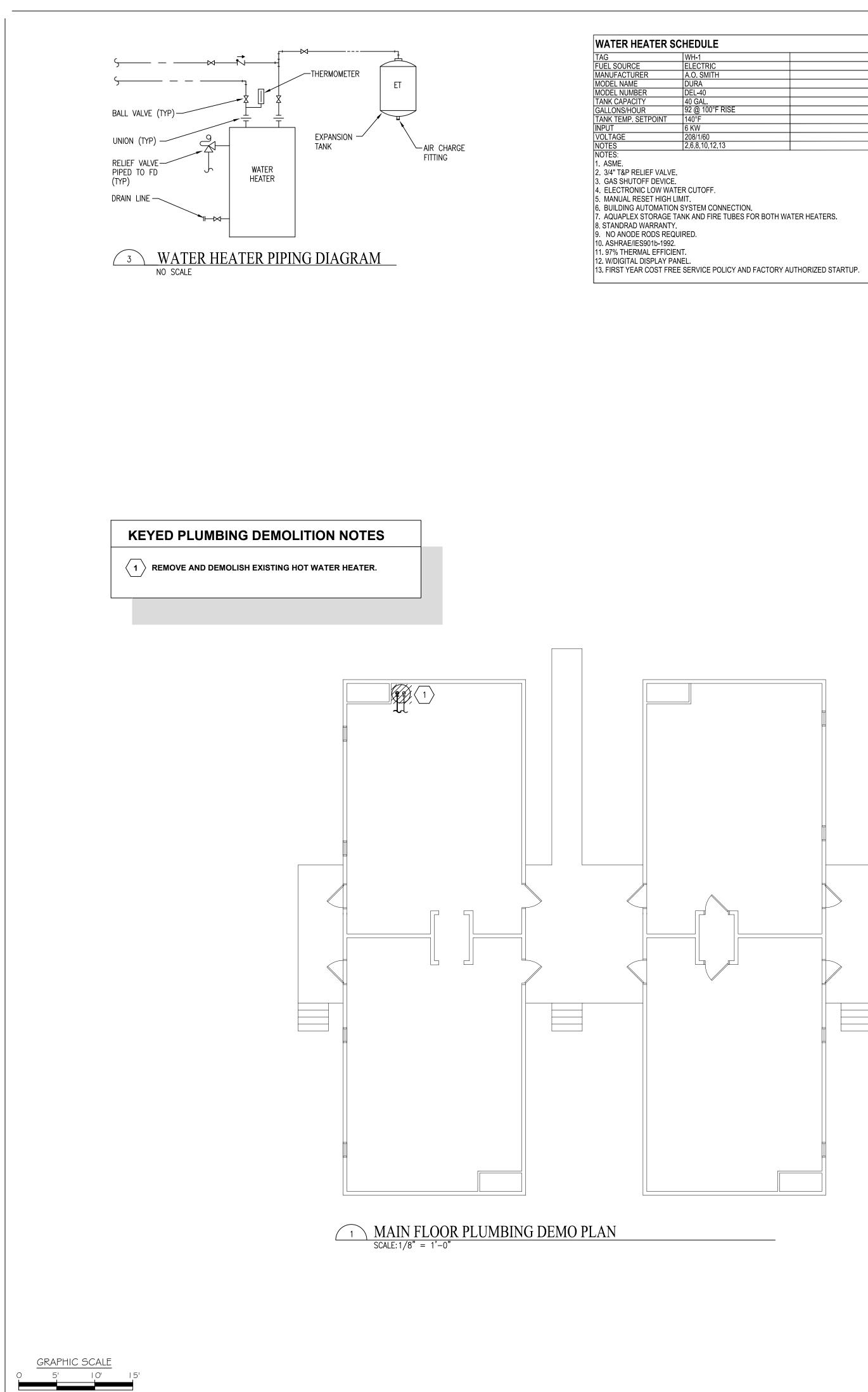
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# **Bottom Landing - Vertical Pipe**



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PRINTED NAME: TODD BLIXT DATE: 12/18/24 LICENSE NUMBER: 62763 DRAWING HISTORY
NO.     DESCRIPTION     DATE       CONSTRUCTION DOCUMENTS     12/18/24
DRAWN BY: TA/AO/AF/KD JN: 24-060
Trollwood Performing Arts Portable Classroom Plans
T-A101

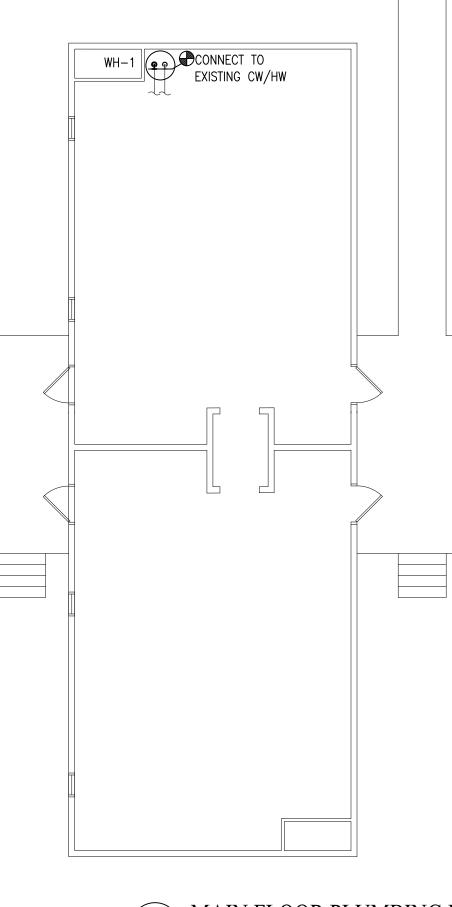


1/8 INCH = 1 FOOT

F:\U0B\2024-105 FPS MAINTENANCE PROJECTS\FPS MAINTENANCE PROJECTS\SHEETS\2024-105-T-M100 MAIN FLOOR PLUMBING DEMO & REMODEL - TROLLWOOD.DWG12/18/2024 8:29 AM

	WH-1	
	ELECTRIC	
ER	A.O. SMITH	
	DURA	
ER	DEL-40	
ΓY	40 GAL.	
JR	92 @ 100°F RISE	
ETPOINT	140°F	
	6 KW	
	208/1/60	
	2,6,8,10,12,13	

	COLD WATER PIPING		GATE OR BALL VALVE
	HOT WATER PIPING		—— CHECK VALVE
	CIRCULATING HOT WATER PIPING		
	REVERSE OSMOSIS WATER PIPING		BACKFLOW PREVENTER
	SANITARY PIPING	<b>[</b> Ø]	—— CIRCUIT SOLVER
	UNDERGROUND SANITARY PIPING	——————————————————————————————————————	—— CONCENTRIC REDUCER
	– — CONDENSATE PIPING	——————————————————————————————————————	— ECCENTRIC REDUCER
	— — VENT PIPE ABOVE GRADE		UNION
	HEATING WATER SUPPLY	יוי ר	
	- — HEATING WATER RETURN		SAFETY VALVE
	CHILLED WATER SUPPLY     CHILLED WATER RETURN		— 2-WAY MODULATING C.V.
		X	— 3-WAY MODULATING C.V.
	HIGH PRESSURE STEAM	~ ~	
	LOW PRESSURE STEAM	<u>[]</u>	WTR FLOW MEASURING DEV.
- STM			STRAINER
	COMPRESSED AIR		
— G ——	— GAS — OXYGEN		PRESSURE GAUGE
	ROOF DRAIN	(ə),	IN LINE PUMP
	FUEL OIL SUPPLY		
		T	THERMOSTAT
	— PUMP	TN	NIGHT THERMOSTAT
G	—— PIPE DOWN		FLOAT SWITCH
	—— PIPE UP		FLOOR DRAIN
-1:1	—— BOTTOM PIPE TAKE-OFF		
	TOP PIPE TAKE-OFF	$\bigcirc$	POINT OF CONNECTION (POC)
E	CAPPED PIPE		POINT OF DISCONNECTION (PO



2 MAIN FLOOR PLUMBING REMODEL PLAN SCALE: 1/8" = 1'-0"

# MECHANICAL SYMBOLS

ITEMS.

# **GENERAL MECHANICAL DEMOLITION NOTES**

THE FOLLOWING NOTES APPLY TO ALL MECHANICAL SHEETS:

OWNER HAS FIRST POSSESSION OF ANY AND ALL MECHANICAL EQUIPMENT AND ITEMS BEING REMOVED. IF OWNER DESIRES TO KEEP FIXTURE OR ANY ITEMS THAT HAVE BEEN REMOVED, STORE WHERE DIRECTED BY OWNER. DISPOSE OF ANY ITEMS PROPERLY THAT OWNER DOES NOT DESIRE TO KEEP.

DEMOLITION DRAWINGS ARE COOPERATIVE IN NATURE. DRAWINGS WERE DEVELOPED USING RECORD DRAWINGS AND ON SITE INVESTIGATIONS. THE MECHANICAL CONTRACTOR (M.C.) IS RESPONSIBLE TO VISIT THE SITE TO VERIFY AND INVESTIGATE ALL CONDITIONS APPLICABLE FOR COMPLETION OF THE CONSTRUCTION WORK. A THOROUGH ON-SITE ANALYSIS OF THE EXISTING CONDITIONS PRIOR TO STARTING WORK TO ASCERTAIN THE FULL SCOPE OF THE DEMOLITION WORK IS REQUIRED. THE M.C. IS TO REPORT TO THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OR DISCOVERIES ARE MADE DURING THE DEMOLITION PROCESS THAT CONFLICT WITH THE DRAWINGS.

M.C. SHALL CONTACT THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS BEFORE PROCEEDING WITH THE WORK, OTHERWISE CORRECTION OF SUCH ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.

ANY WALLS, SURFACES, DOORS, FINISHES, ETC. TO REMAIN THAT ARE DAMAGED BY THE M.C. DURING CONSTRUCTION MUST BE PATCHED, REPAIRED, OR REPLACED TO MATCH THE ADJACENT SURFACES.

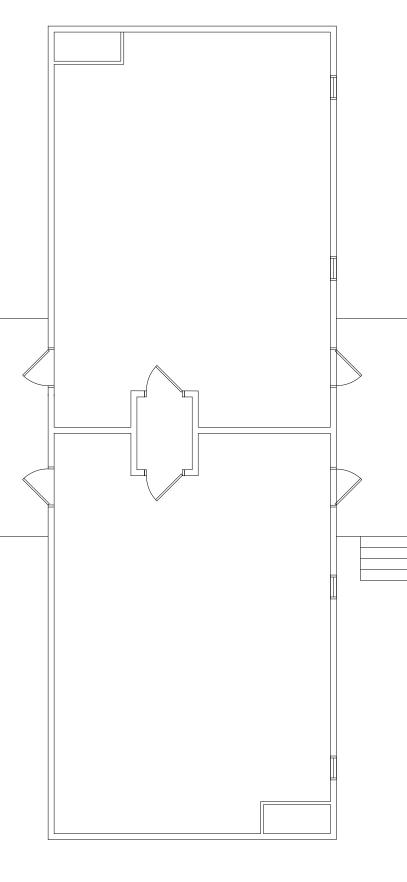
M.C. TO PATCH HOLES IN WALLS AND/OR CEILINGS LEFT BY DEMO'D MECHANICAL EQUIPMENT AND PIPING TO MATCH ADJACENT SURFACES.

ALL WORK REQUIRING EXTENDED INCONVENIENCE TO THE OWNER SHALL BE COORDINATED WITH OWNER 7 DAYS IN ADVANCE OF THE WORK.

REMOVE ALL ABANDONED OR UNUSED PIPE AND MATERIAL FROM PROJECT AND DISPOSE OF PROPERLY.

# PRIOR APPROVAL SPECIFICATION

MANUFACTURERS' TRADE NAMES AND CATALOG NUMBERS LISTED ARE INTENDED TO INDICATE THE QUALITY OF EQUIPMENT OR MATERIALS DESIRED. MANUFACTURERS NOT LISTED MUST HAVE PRIOR APPROVAL. WRITTEN PRIOR APPROVAL MUST BE OBTAINED FROM THE ARCHITECT/ENGINEER PRIOR TO BID OPENING. REQUESTS ARE TO BE SUBMITTED SUFFICIENTLY AHEAD OF THE DEADLINE TO GIVE AMPLE TIME FOR EXAMINATION. THE ITEMS APPROVED WILL BE LISTED IN AN ADDENDUM AND ONLY THIS LIST OF EQUIPMENT WILL BE ACCEPTED IN LIEW OF SPECIFIED PRODICTS. SUBMITTLAS MUST INDICATE THE SPECIFIC ITEM OR ITEMS TO BE FURNISHED IN LIEW OF THOS SPECIFIED, TOGETHER WITH COMLETE TECHNICAL AND COMPARATIVE DATA ON SPECIFIED ITEMS AND PROPOSED





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# FARGO PUBLIC SCHOOLS TROLLWOOD **PERFORMING ARTS** 801 50TH AVE S MOORHEAD, MN 56560

STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

#### MECHANICAL

MARTIN MECHANICAL DESIGN 1201 25TH AVE N FARGO, ND 58102 (701) 293.7957 OFFICE

> ELECTRICAL CMTA

2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

#### CIVIL LOWRY ENGINEERING

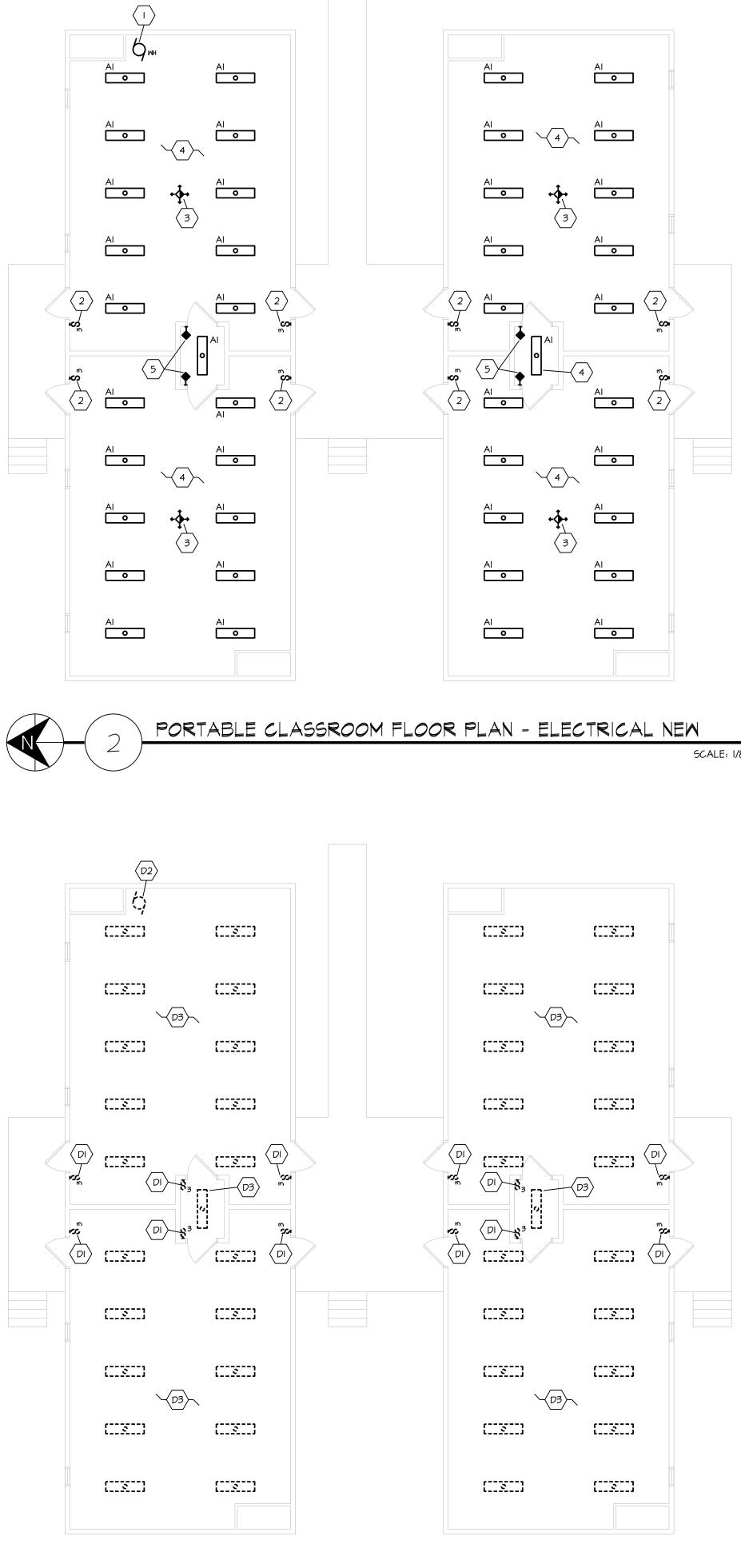
5306 51ST AVE S STE A FARGO, ND 58104 (701) 235.0199 OFFICE

l hereby certify that this drawin prepared by me or under my di registered Engineer under the l	rect supervisior	i and that I ar	n a duly
Dated: 12/17/24	Regt. No.	59611	
Signedi Matthe mayar	_		
MATTHEW KRUEGER			
DRAWING HISTOR	<b>Y</b>		

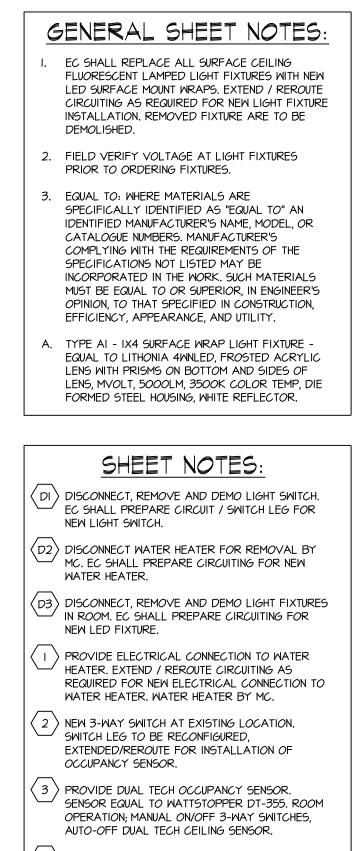
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	12/18/24

DRAWN BY: CJW JN: 2024-105

MAIN FLOOR PLUMBING DEMO & REMODEL -TROLLWOOD SHEET **T-M100** 



PORTABLE CLASSROOM FLOOR PLAN - ELECTRICAL DEMOLITION



- 4 EC SHALL EXTEND / REROUTE CIRCUITS IN ROOM AS REQUIRED FOR CONNECTION TO NEW LIGHT FIXTURES.
- 5 MULTI-WAY PIR WALL SENSOR AT EXISTING LOCATION. WALL SENSOR EQUAL TO WATTSTOPPER PW-301. FINISH TO MATCH EXISTING WALL DEVICES.



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# FARGO PUBLIC SCHOOLS

## TROLLWOOD PERFORMING ARTS 801 50TH AVE S MOORHEAD, MN 56560

STRUCTURAL HEYER ENGINEERING 4180 24TH AVENUE S FARGO, ND 58104 (701) 280.0949 OFFICE

ELECTRICAL CMTA 2201 12TH ST N STE E FARGO, ND 58102 (701) 280.0500 OFFICE

CIVIL LOWRY ENGINEERING 1111 WESTRAC DR STE 108 FARGO, ND 58103 (701) 235.0199 OFFICE

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

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		_ SIGNATURE:	w Bar		
		PRINTED NAME: A	ndrew B. Bartsch		
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