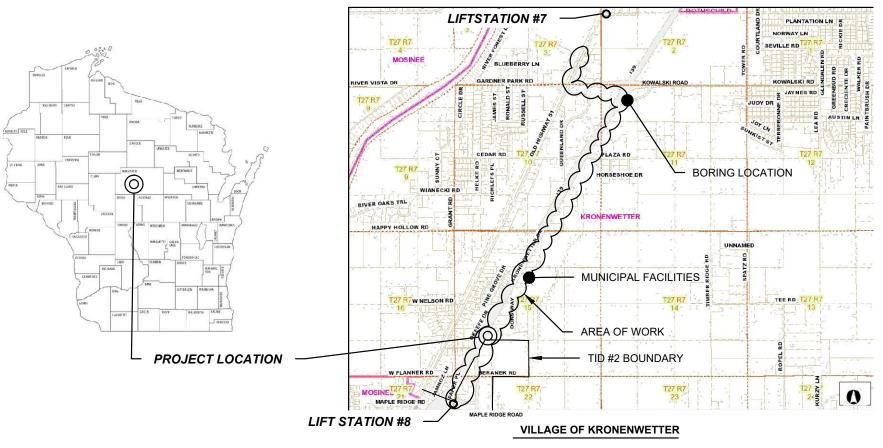
LIFT STATION #8 UPGRADE PROJECT TAX INCREMENTAL FINANCE DISTRICT #2

VILLAGE OF KRONENWETTER, WISCONSIN



OWNER:

VILLAGE OF KRONENWETTER MARATHON COUNTY, WISCONSIN 1582 KRONENWETTER DR KRONENWETTER, WISCONSIN. (715)693-4200 EXT. 1731 CHRIS VOLL, VILLAGE PRESIDENT

cvoll@kronenwetter.org

OPERATOR: MARK MACKEY VILLAGE OF KRONENWETTER 1582 KRONENWETTER DRIVE KRONENWETTER, WISCONSIN 54465 mmackey@kronenwetter.org

ENGINEER / DESIGNER:

ROTH PROFESSIONAL SOLUTIONS ROBERT J. ROTH. PE 315 DEWITT, ST. PORTAGE, WI 53901 (608)571-3205 robert@rpsprofessionalsolutions.com

PUBLIC WORKS CREW LEADER:

BRAD JACOBSON VILLAGE OF KRONENWETTER 1582 KRONENWETTER DRIVE KRONENWETTER, WISCONSIN 54465 (715)574-3868 bjacobson@kronenwetter.org

ELECTRIC& GAS:

WISCONSIN PUBLIC SERVICE (WPS) GREENBAY WI. 54307-9001 (800)242-9772 newserviceinstallation@wisconsinpublicservice.com

CABLE/TELEPHONE:

SPECTRUM BUSINESS SPECTRUM OF WISCONSIN

APPLICABLE CODES:

ZONING ORDINANCE, CHAPTER 485 WDNR EROSION CONTROL=NR 216 WDNR SANITARY SEWERS=NR110 WDNR WATER = NR811 VILLAGE WATER & SEWER, CHAPTER 508 VILLAGE STREETS, CHAPTER 454 **EROSION CONTROL, CHAPTER 270 NEC 2017 ELECTRICAL SPS=316** INTERNATIONAL FUEL GAS CODE= IFGC2015

PROJECT ADDRESS:

LS #8 = 1210 KRONENWETTER DRIVE



TITLE PAGE T 1.0 NOTES, ABBREVIATIONS, LEGEND T 1.1 LIFT STATION SHEETS LIFTSTATION #8 SECTION B 1.0 LIFTSTATION #8 PUMP SECTION B 3.0 **CIVIL SHEETS** OVERALL PROJECT PLAN C 1.0 C 1.1* PLAN & PROFILE - STA 0+00 TO 10+00 C 1.2* PLAN & PROFILE - STA 10+00 TO 32+00 C 1.3* PLAN & PROFILE - STA 32+00 TO 54+00 PLAN & PROFILE - STA 54+00 TO 76+00 C 1.4* C 1.5* PLAN & PROFILE - STA 76+00 TO 98+00 PLAN & PROFILE - STA 98+00 TO 120+00 C 1.6* C 1.7* PLAN & PROFILE - STA 120+00 TO 141+00 C 1.8* PLAN & PROFILE - STA 141+00 TO 152+00 C 1.9* PLAN & PROFILE - STA 152+00 TO 166+48 #8 LS EXISTING SITE PLAN C 2.0 C 2.1* #8 LS PROPOSED SITE PLAN **DETAILS** D 1.0-1.3 **EROSION CONTROL DETAILS** WATER MAIN DETAILS D 2.0 SANITARY SEWER DETAILS D 3.0-3.1 ABOVE GROUND VALVE VAULT DETAIL D 4.0 **ELECTRICAL ONE-LINE DIAGRAM** E 1.0 **ELECTRICAL ONE-LINE DIAGRAM** E 1.1 ELECTRICAL PANEL DIAGRAM E 2.0 UTILITIES F 1.0 GAS SERVICE DETAILS

SHEET NAME

SHEET No.

* EROSION CONTROL ON THESE SHEETS

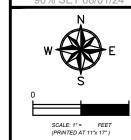


SHEET

FINANCE DISTRICT #2

TAX INCREMENTAL

PRELIMINARY NOT FOR CONSTRUCTIO



2023-020 (F) PROJECT NO:

> 12/15/23 DATE:

> DESIGNED BY: **RJR**

WAC T 1.0 SHEET:

DRAWN BY

GENERAL NOTES:

- 1. OWNER/CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY AND SAFETY COMPLIANCE.
- 2. CONSIDER ALL EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS AS APPROXIMATE AND NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL OBTAIN UTILITY LOCATES AT LEAST 24 HOURS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO VERIFY EXACT LOCATIONS OF ALL BURIED UTILITIES. PROTECT AND RESTORE ALL UTILITIES TO THE UTILITY OWNERS SATISFACTION. CONTACT THE APPROPRIATE UTILITY FOR A FIELD LOCATION PRIOR TO STARTING ANY CONSTRUCTION.
- WORK LIMITS ARE IDENTIFIED AS THE OUTER PROPERTY BOUNDARY. NOTIFY THE OWNER OR ENGINEER 24 HOURS PRIOR TO DISTURBING ANY AREA OUTSIDE THE CONSTRUCTION LIMITS. DAMAGE OR DISTURBANCE OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE REPAIRED INKIND.
- 4. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- 5. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTIONS OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OF DISCREPANCY BETWEEN THESE PLANS AND/OR PLANS PREPARED BY OTHERS. IF ANY ERRORS, DISCORDANCES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- 6. THE CONTRACTOR SHALL MAINTAIN A PEDESTRIAN FENCE AROUND ALL SIGNIFICANT EXCAVATION TO BE LEFT OPEN DURING WORK OR OVERNIGHT

ABBREVIATIONS

W//

WATER VALVE

AC	ASPHALT CONCRETE
BLDG	BUILDING
CMP	CORRUGATED METAL PIPE
C.O.	CLEAN OUT
DPW	DEPARTMENT OF PUBLIC WORKS
DIA.	DIAMETER
DI	DUCTILE IRON PIPE
E	EAST
EA.	EACH
ELEV.	ELEVATION
ESMT.	EASEMENT
EX	EXISTING
EOP	EDGE OF PAVEMENT
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
GAL.	GALLON
GV/VB	GATE VALVE/VALVE BOX
HORZ.	HORIZONTAL
INV.	INVERT
L	LENGTH
L.F.	LINEAR FEET
MBW	MODULAR BLOCK WALL
MAX.	MAXIMUM
MIN.	MINIMUM
N	NORTH
A.A.A.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
R	RADIUS
RMV	REMOVE
S	SOUTH
SB	SOIL BORING
SCH	SCHEDULE
SHT.	SHEET
SS	STAINLESS STEEL
S.M.D.	STANDARD MAXIMUM DENSITY
STA.	STATION
SVC	SERVICE
TC	TOP CONCRETE OR CURB
TH	TEST HOLE
TP	TOP OF PAVEMENT
TSW	TOP OF SIDEWALK
TYP.	TYPICAL
U.G.	UNDERGROUND
VERT.	VERTICAL
w/	WITH
W	Water
W	WEST

LEGEND

Н	YARD PUMP	X	EXISTING FENCE
©V ⊠	GAS VALVE		PROPOSED FENCE
8	WATER VALVE	_	
¥	LIGHT POLE	SF	SILT FENCE
- o -	SIGN		SILT LOG
I	TELEPHONE PEDESTAL		
•	TEST HOLE		WATER LINE
	EXISTING MANHOLE		GAS LINE
	PROPOSED MANHOLE		FORCE MAIN
Ø	POLE		SANITARY SEWER
K	GUY WIRE	er	OTODM OFWED
Q	WATER HYDRANT	st	STORM SEWER
(W)	WATER BOX	т	TELEPHONE LINE
	DECIDUOUS TREES		OVERHEAD ELECTRIC
*	CONIFEROUS TREES	UE	UNDERGROUND ELECTRIC
	CONCRETE SURFACE	F0	FIBER OPTICS
	GRAVEL SURFACE		
	ASPHALT SURFACE	GL	GRADING LIMITS
	POND		GUARD RAIL
	SAND/BEACH		TAX PARCEL LINES
	BUFFER	СОММ	COMMUNICATION LINE
(CCCC)			

RV SITES 12-18 PAVING

DRAINAGE DIRECTION

TRAFFIC FLOW

DRAINFIELD

WETLAND



FINANCE DISTRICT #2 LIFT STATION #8 UPGRADE PROJECT TAX INCREMENTAL

ABBREVIATIONS, LEGEND

PRELIMINARY NOT FOR CONSTRUCTION



PROJECT NO: 2023-020 (F)

DATE: 01/05/24

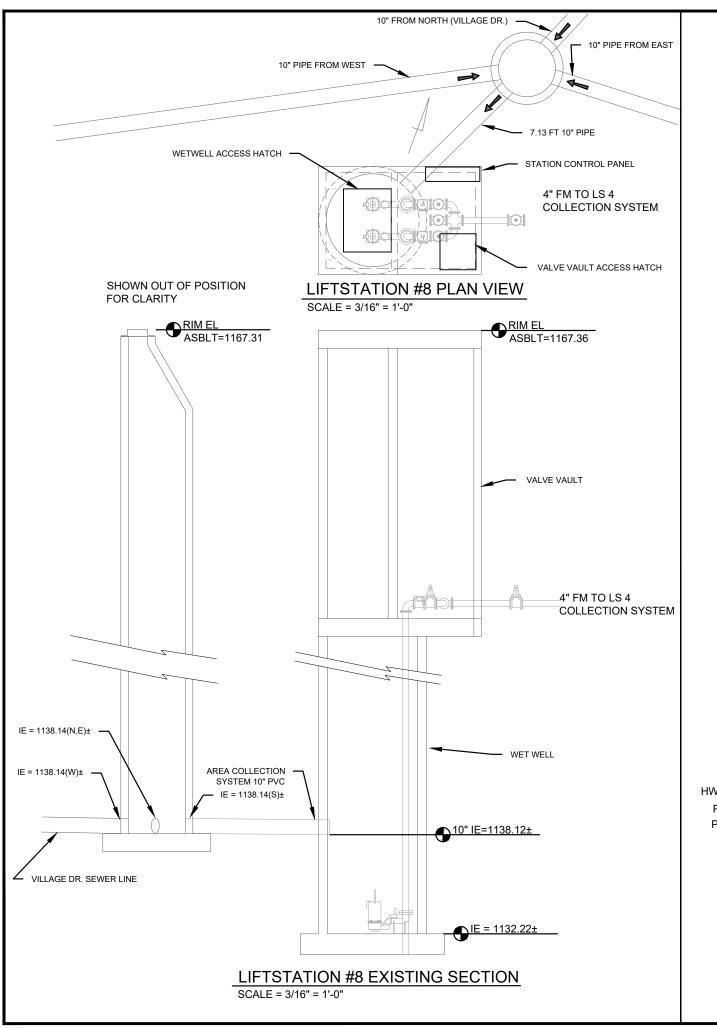
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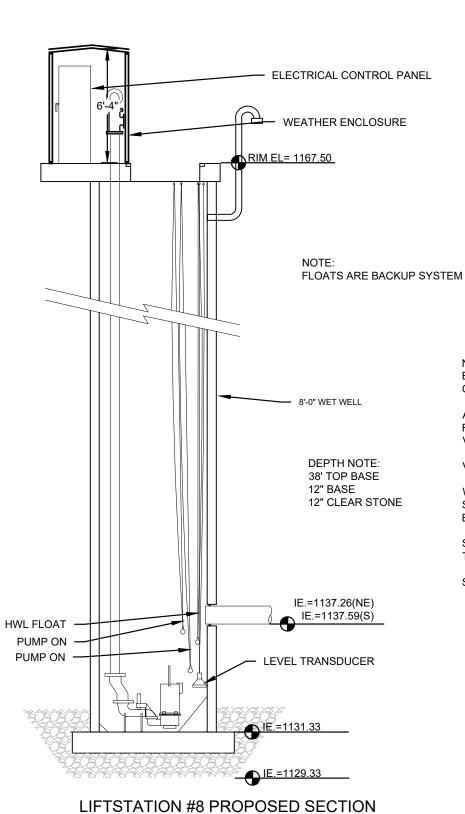
DRAWN BY:

T 1.1 SHEET:

RJR

WAC





SCALE = 3/16" = 1'-0"

SEE SHEET C 2.0 FOR LOCATION

EL-1167.00

VISUAL NOTES

3' OF DARK BROWN SILTY SAND TOPSOIL

BROWN F-M SAND LITTLE SILT, LITTLE

GRAVEL (FILL) (USCS: SP-SM)

FROM 3' TO 15' T

WATER ENCOUNTERED AT 15 FT.

LOOSE TO MEDIUBROWN F-M SAND,
LITTLE SILT, LITTLE GRAVEL

(USCS: SP-SPM)

HARD DRILLING @ 42.5 FT

AUGER REFUSAL @ 45 FT

NOTE:

EXISTING LIFTSTATION TO BE ABANDONED ONCE NEW STATION IS UP AND RUNNING.

ALL VALVES, PUMPS, & PIPING SHALL BE REMOVED FROM BOTH WETWELL AND VALVE

VALVE VAULT TO BE REMOVED.

WETWELL CAN BE ABANDONED IN PLACE, STRUCTURE REMOVED TO AT LEAST 2' BELOW GRADE.

SEE SITE PLAN SHT C 2.1 FOR ORIENTATION TO WET WELL & INCOMING PIPES.

SEE B 3.0 FOR LS PUMP OPERATION



LIFT STATION #8 UPGRADE PROJECT

LIFTSTATION #8 SECTIONS

TAX INCREMENTAL FINANCE DISTRICT #2

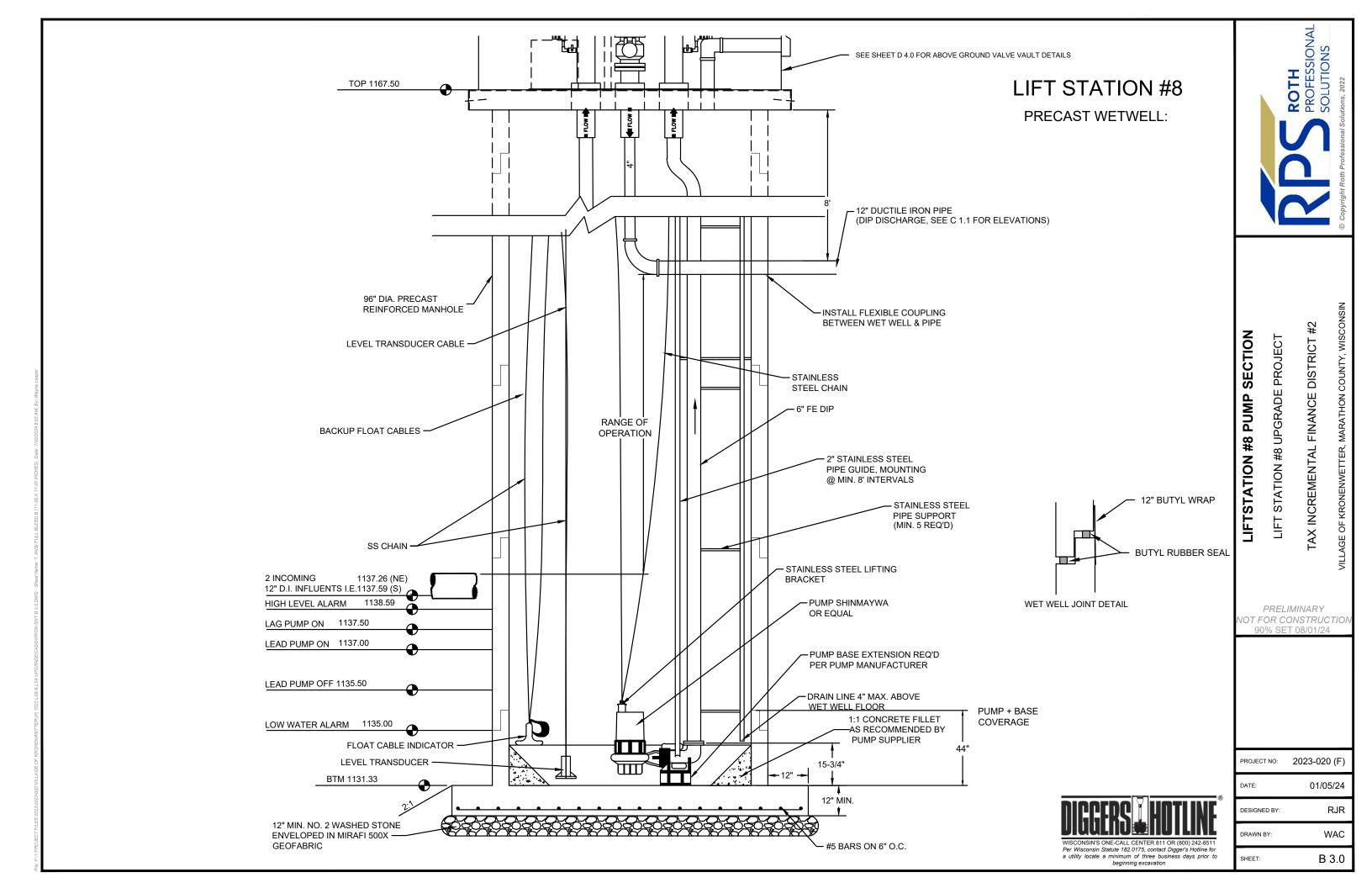
PRELIMINARY NOT FOR CONSTRUCTION 90% SET 08/02/24

PROJECT NO: 2023-020 (F)

DATE: 01/05/24

DESIGNED BY: RJR

DRAWN BY: WAC
SHEET: B 1.0







OVERALL PLAN SHEET LAYOUT

LIFT STATION #8 UPGRADE PROJECT

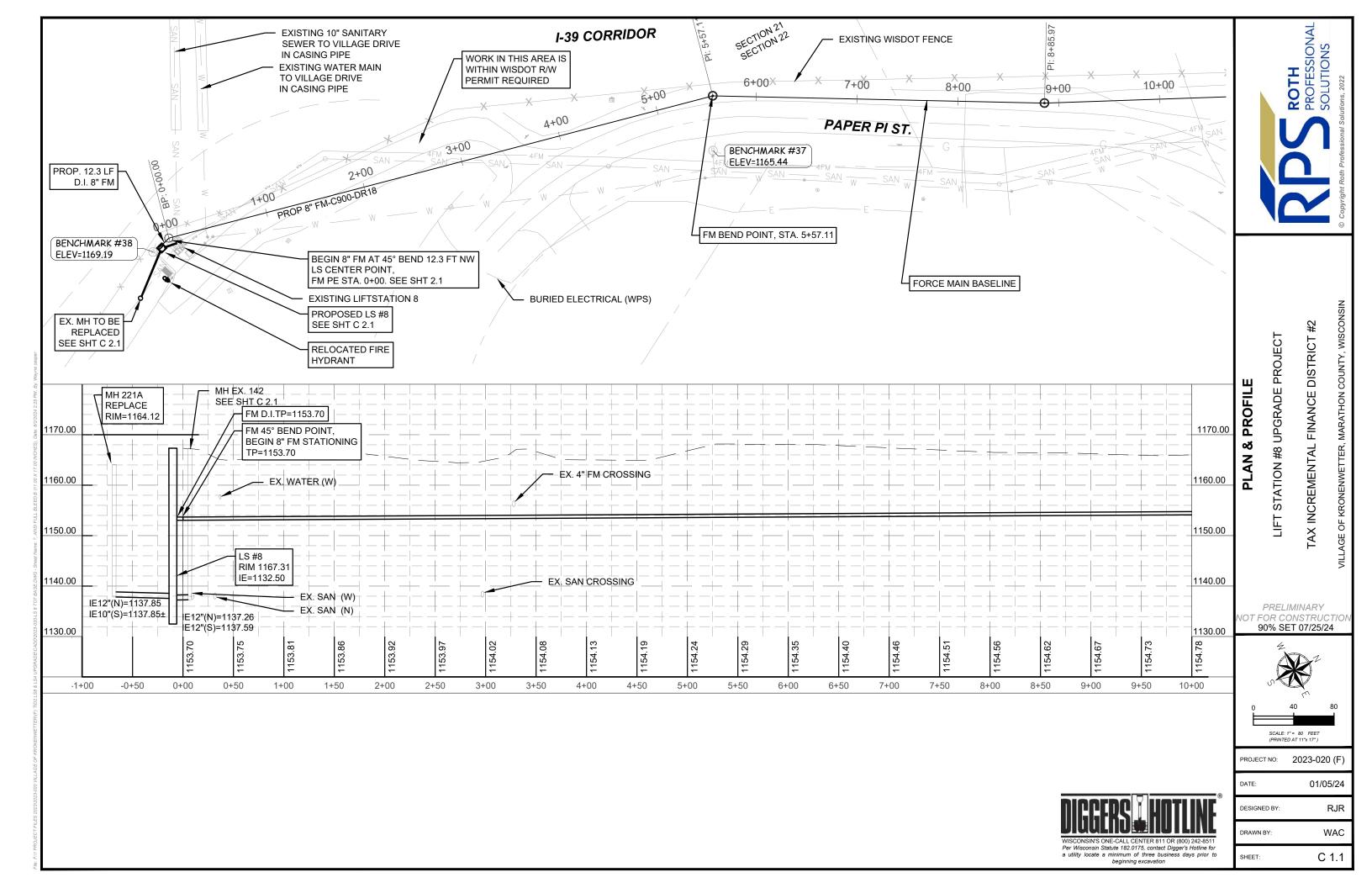
TAX INCREMENTAL FINANCE DISTRICT #2

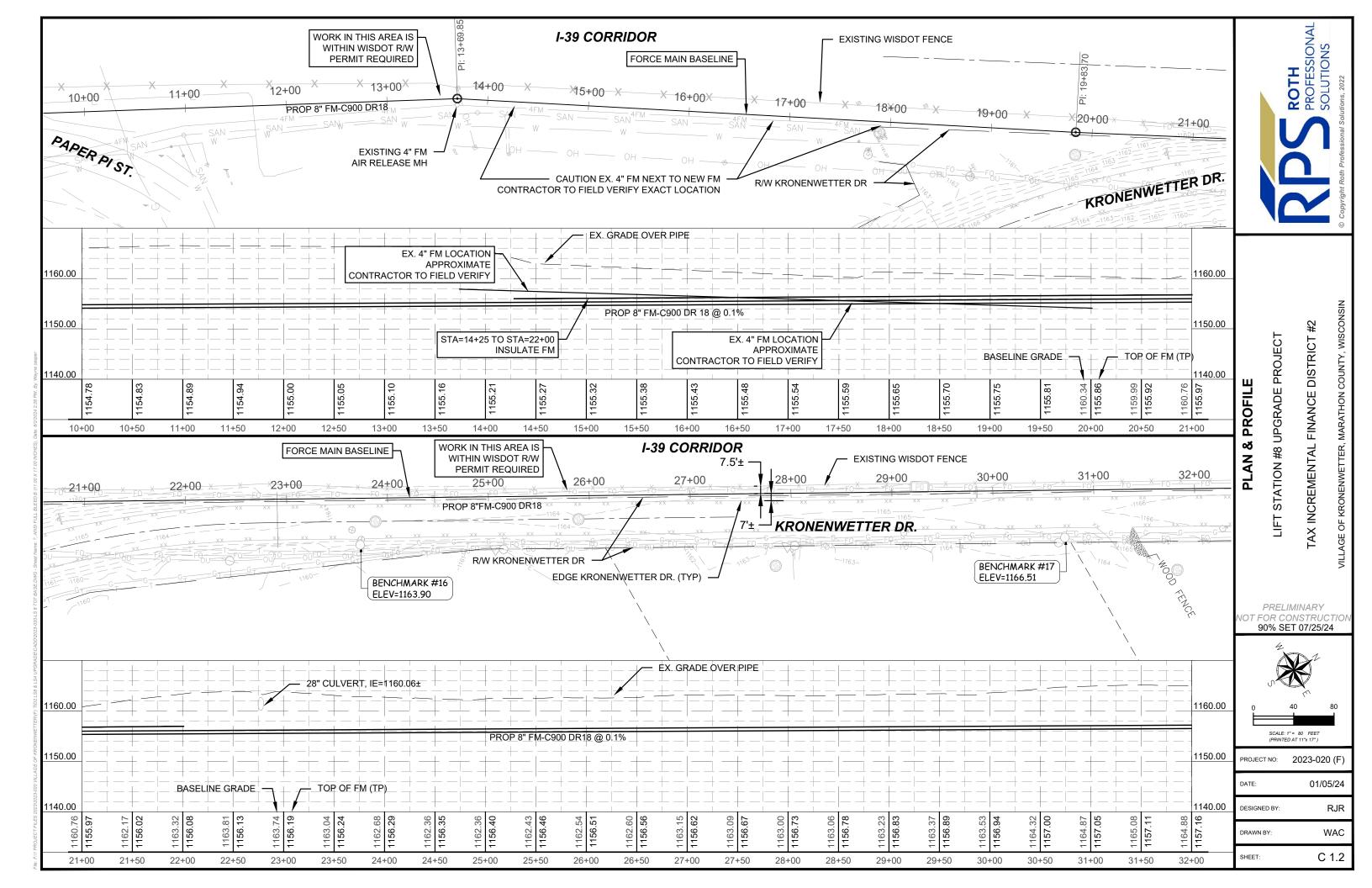
VILLAGE OF KRONENWETTER, MARATHON COUNTY, WISCONSIN

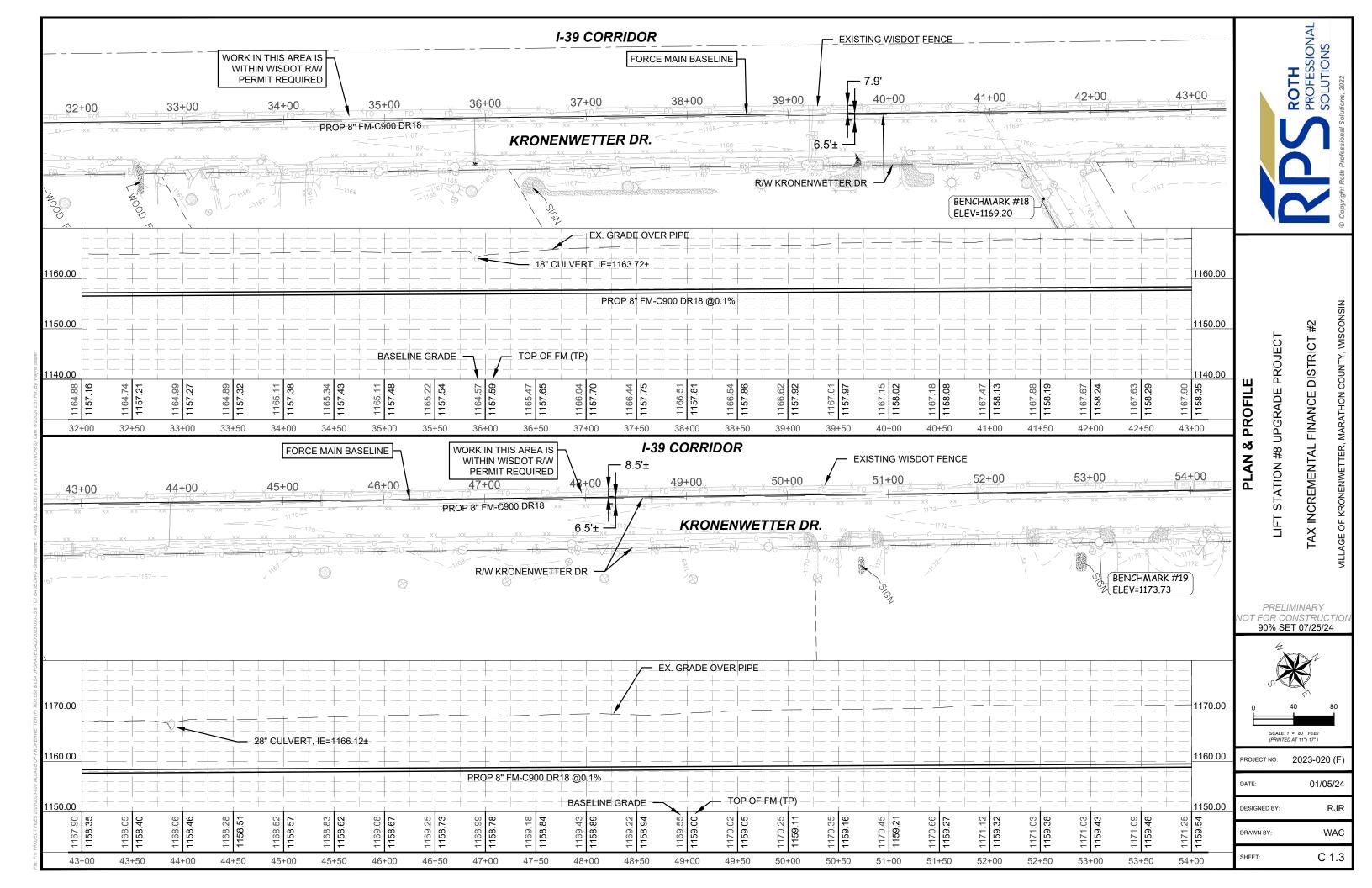


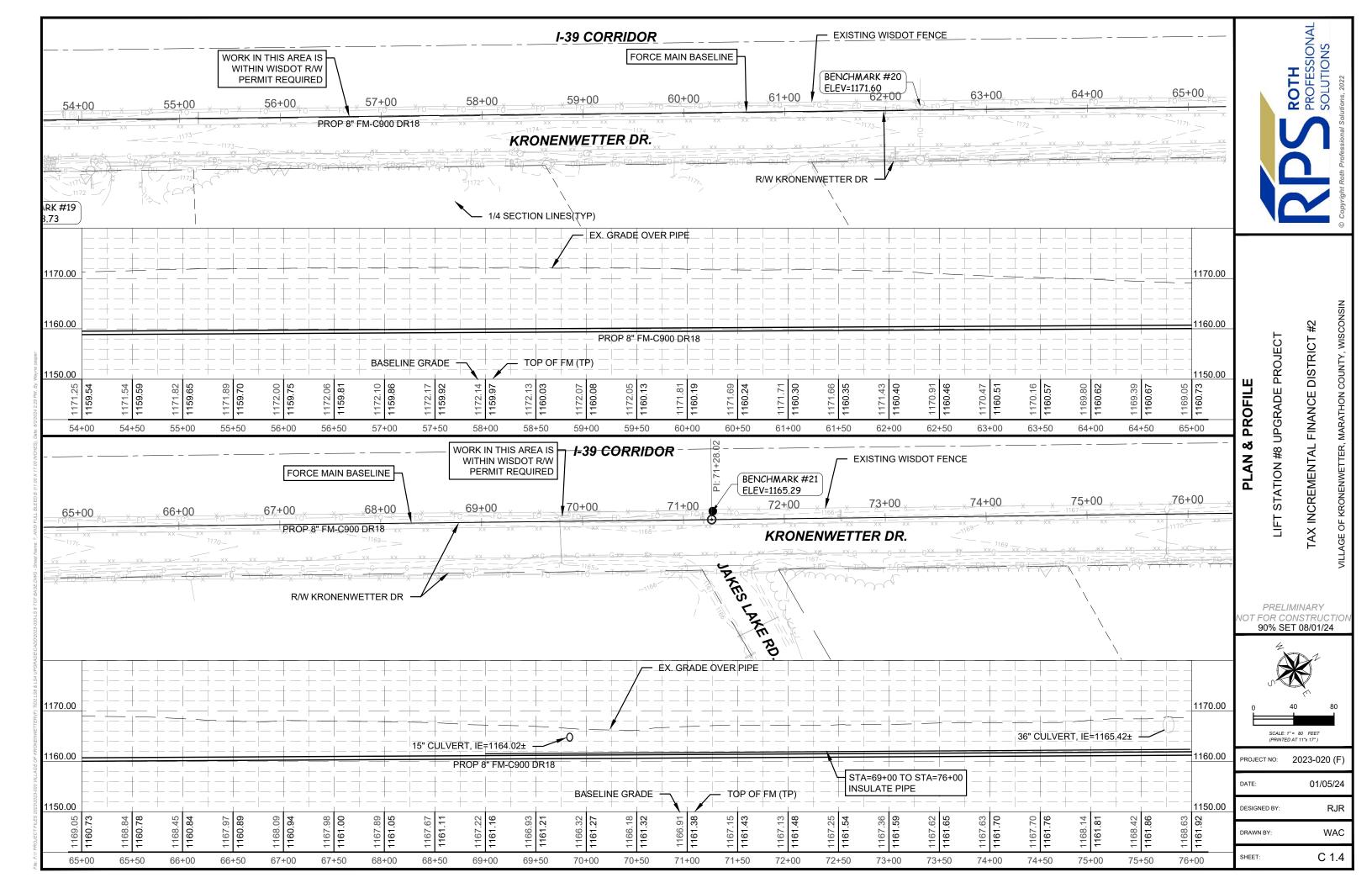
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PROJECT NO:	2023	-020 (F)	SH

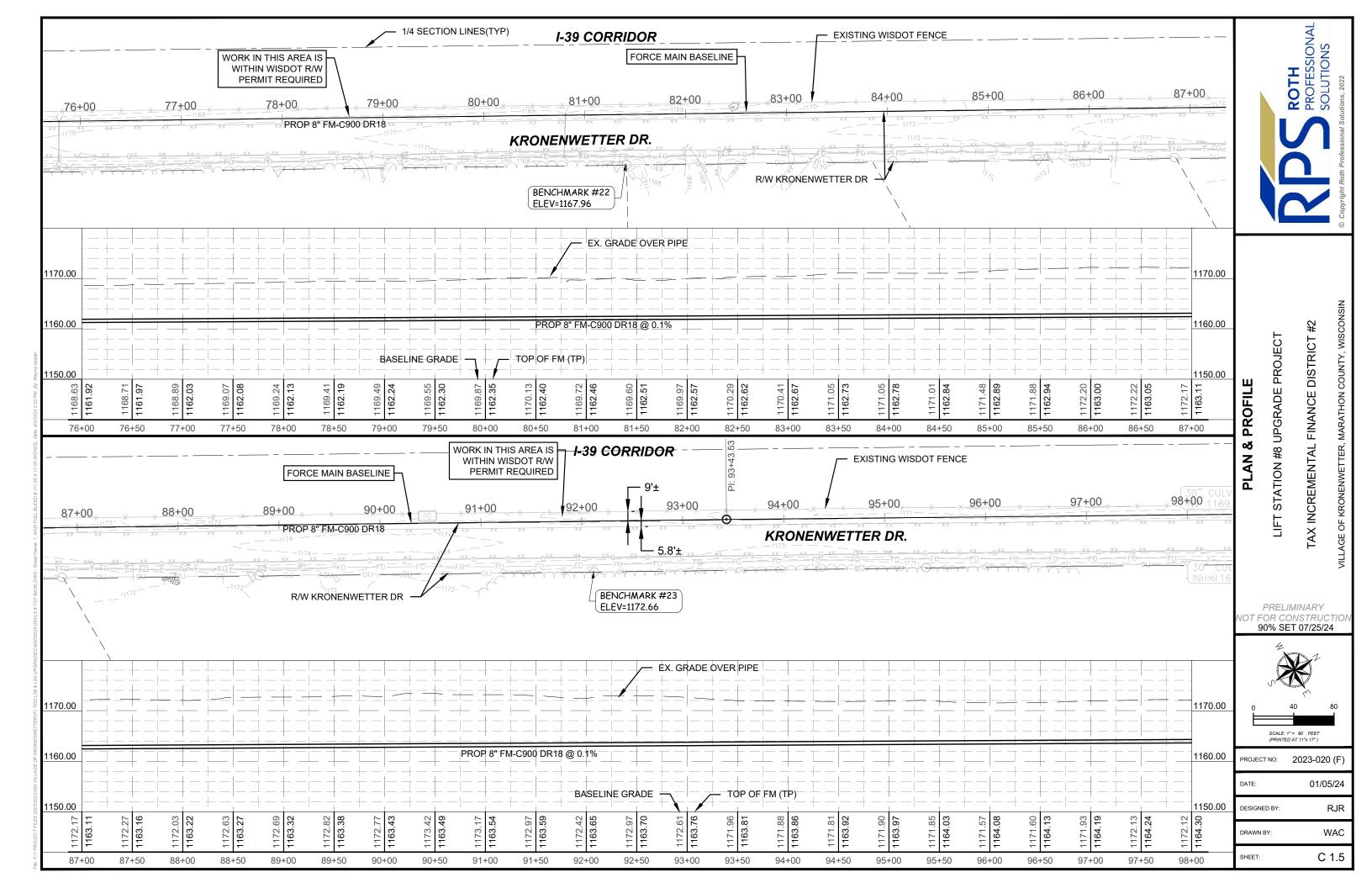
DATE:	08/01/24
DESIGNED BY:	RJR
DRAWN BY:	WAC
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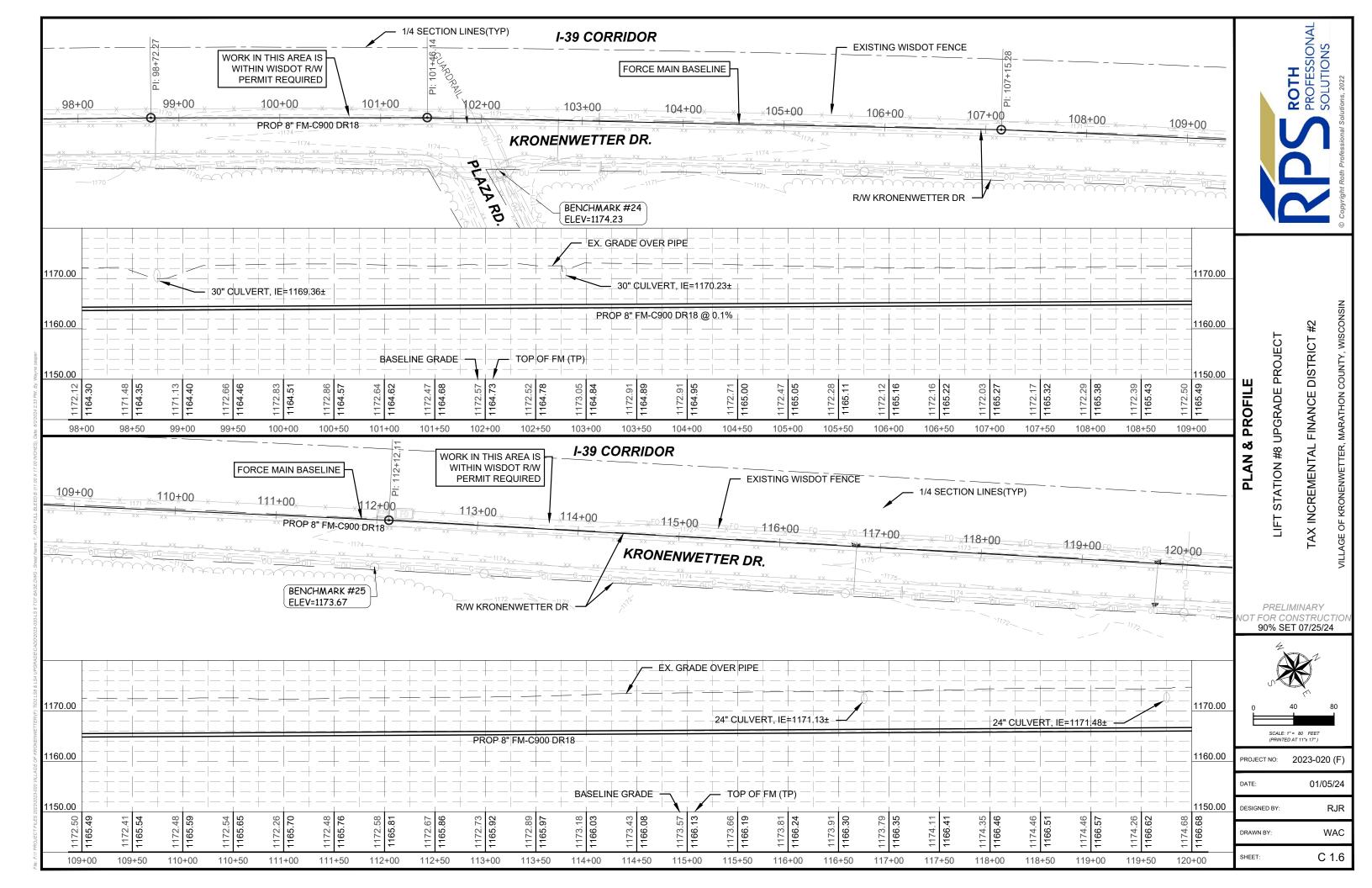


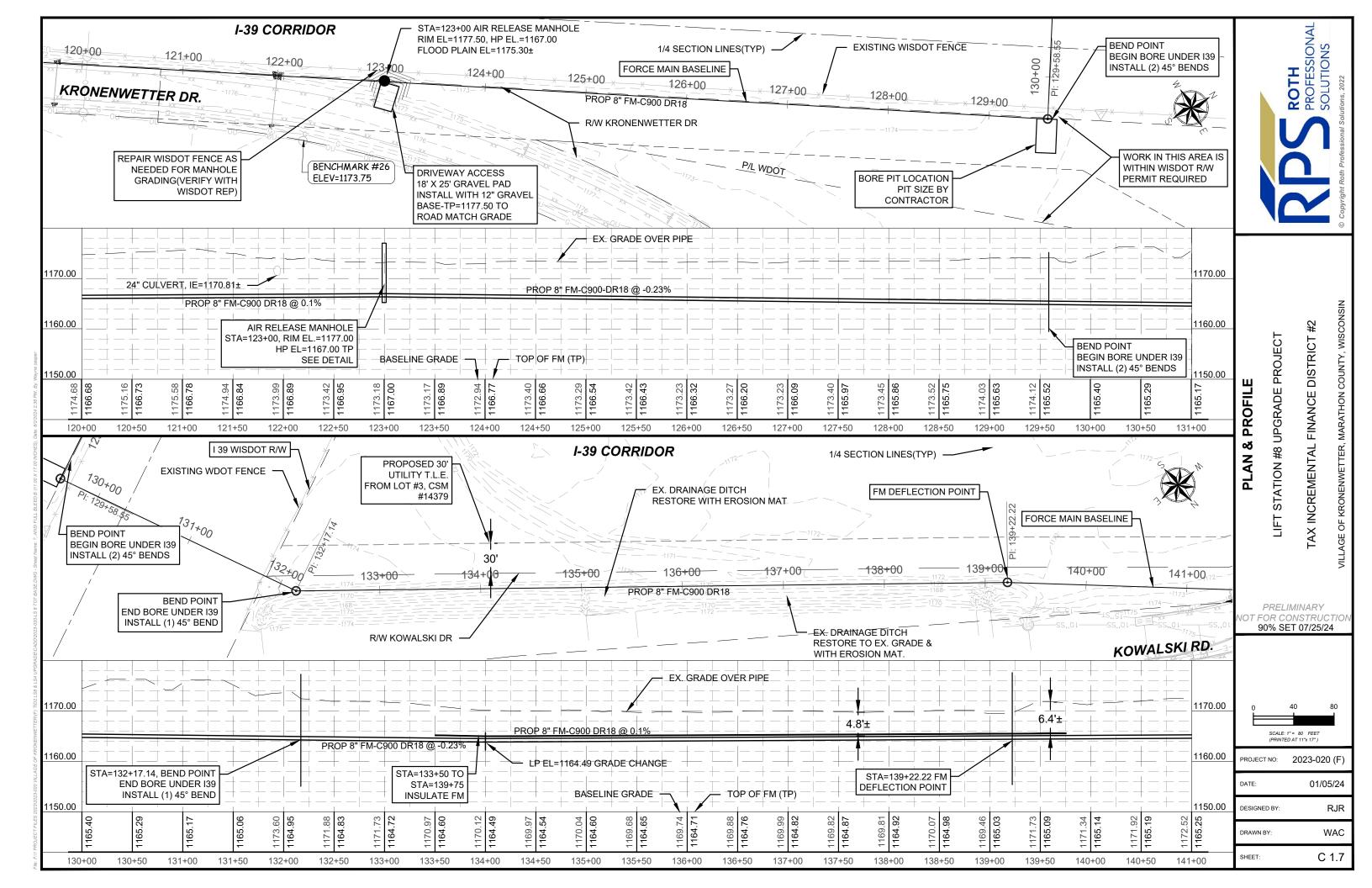


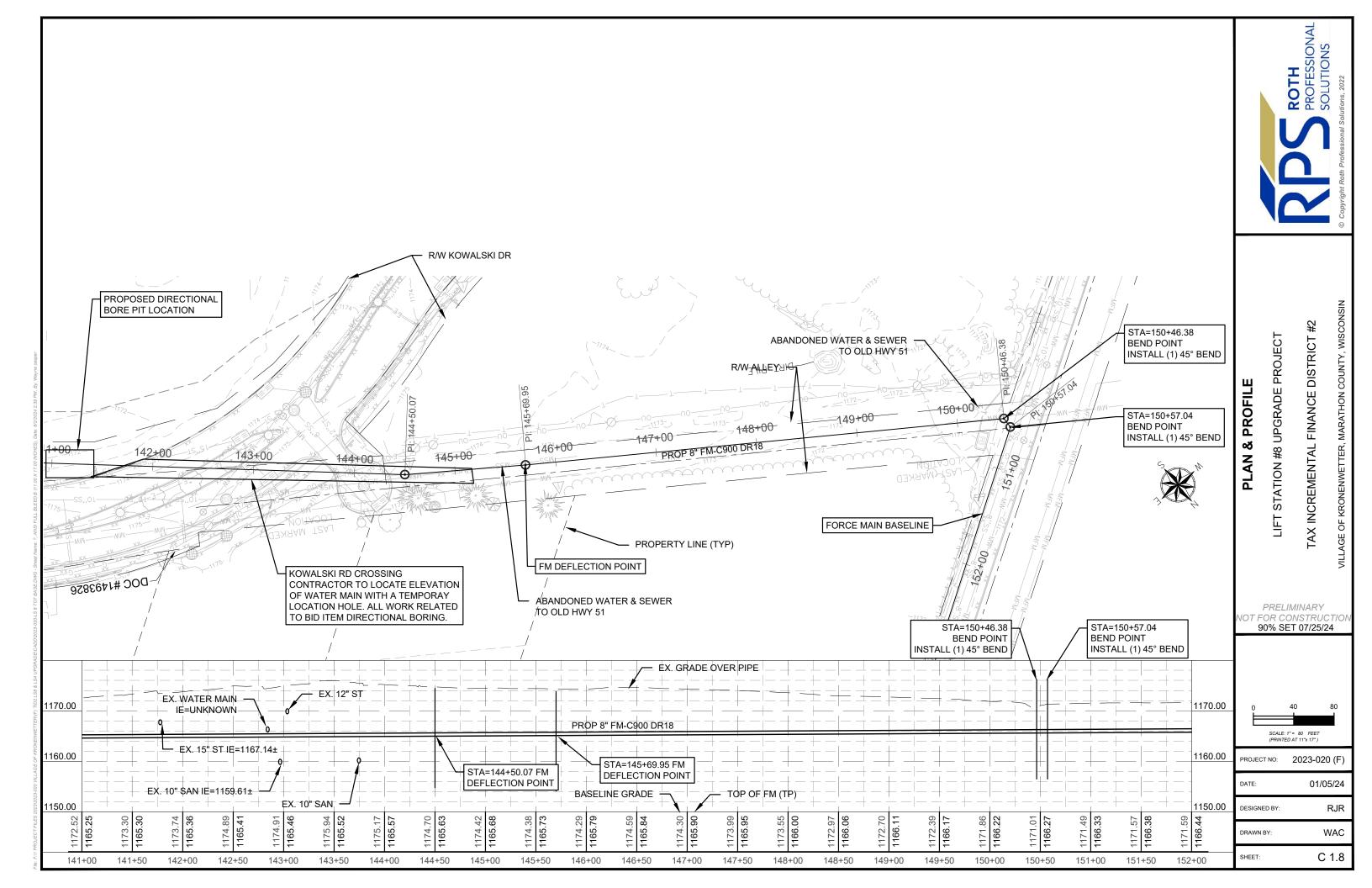


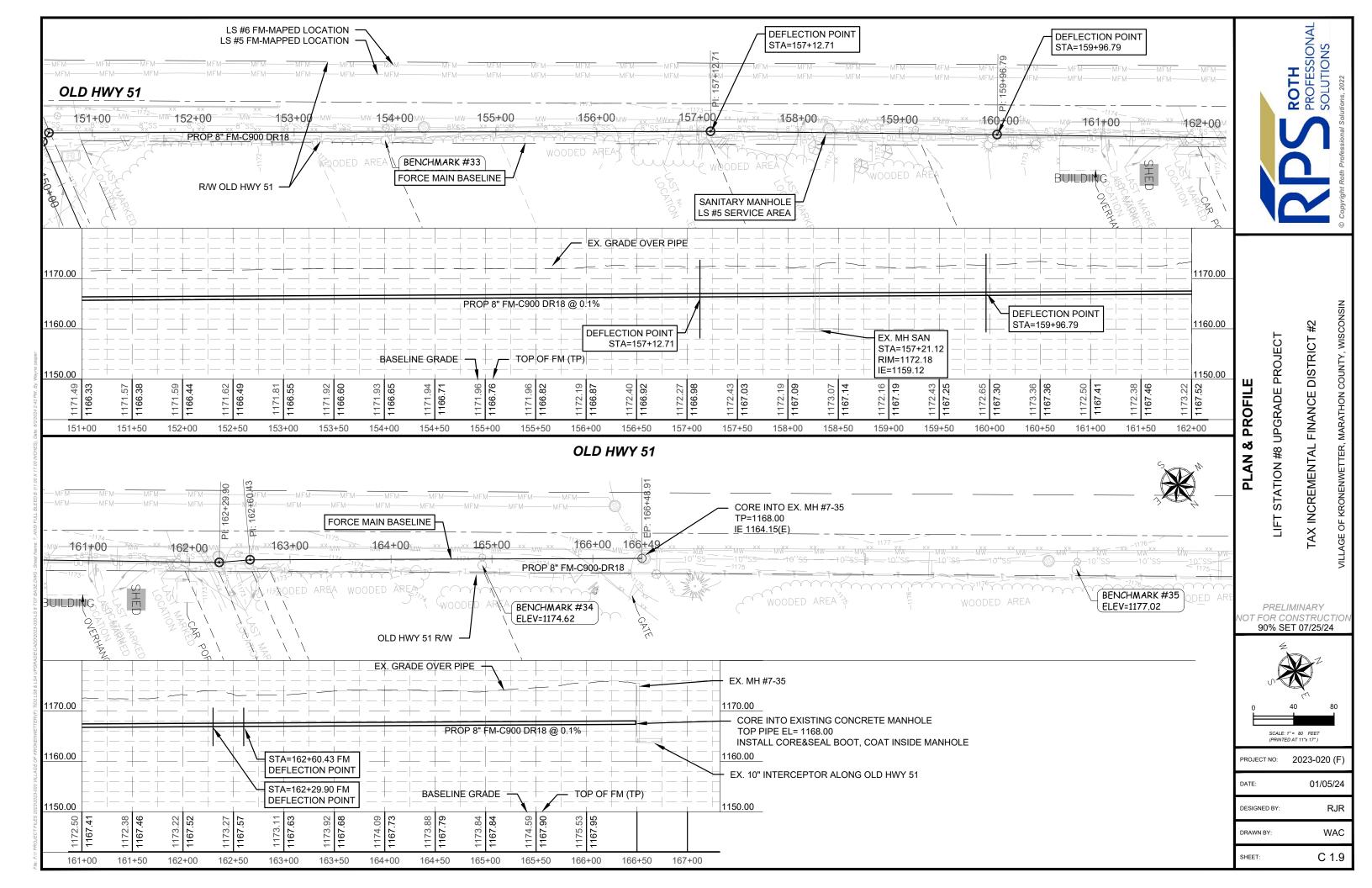


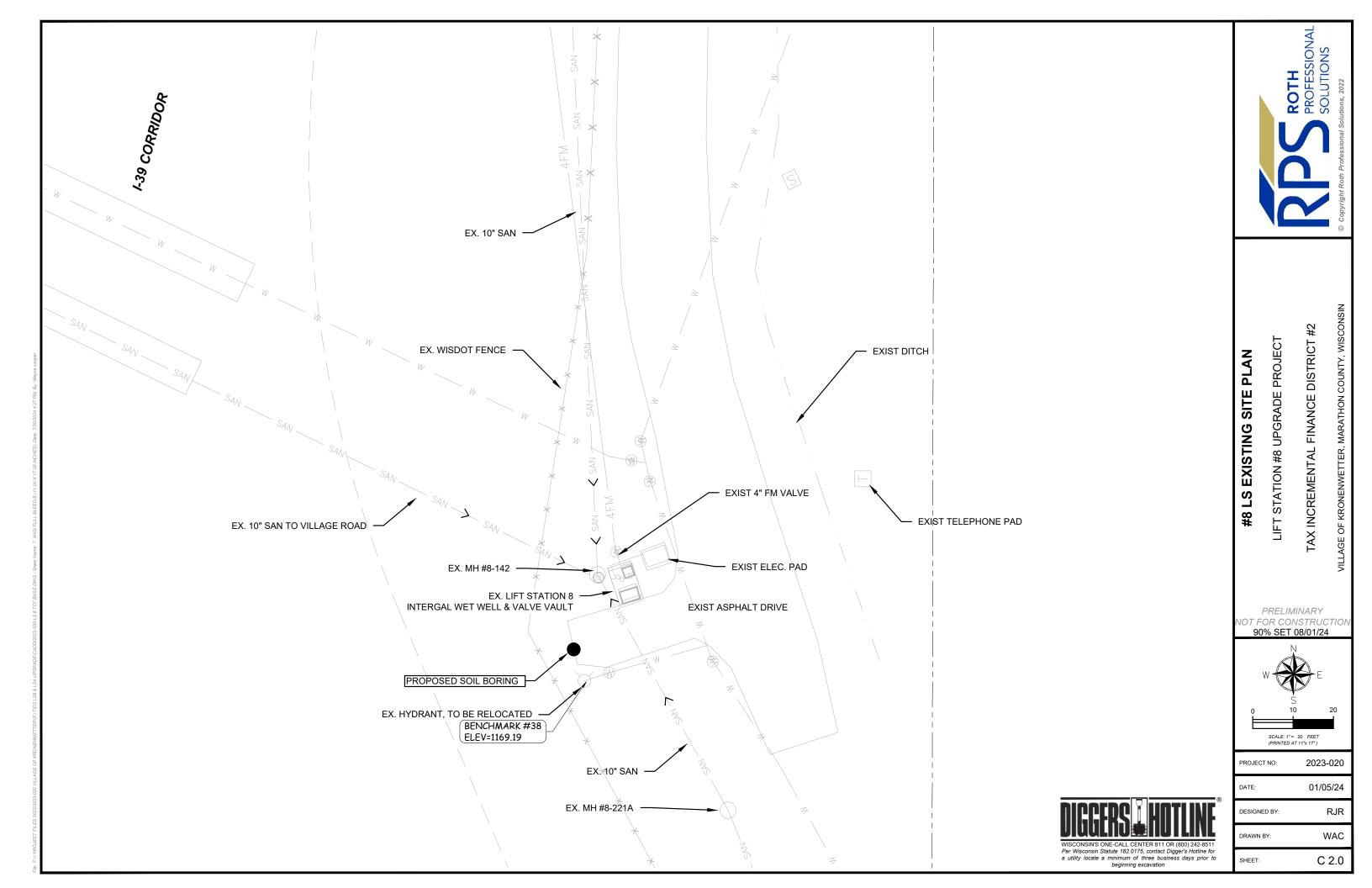


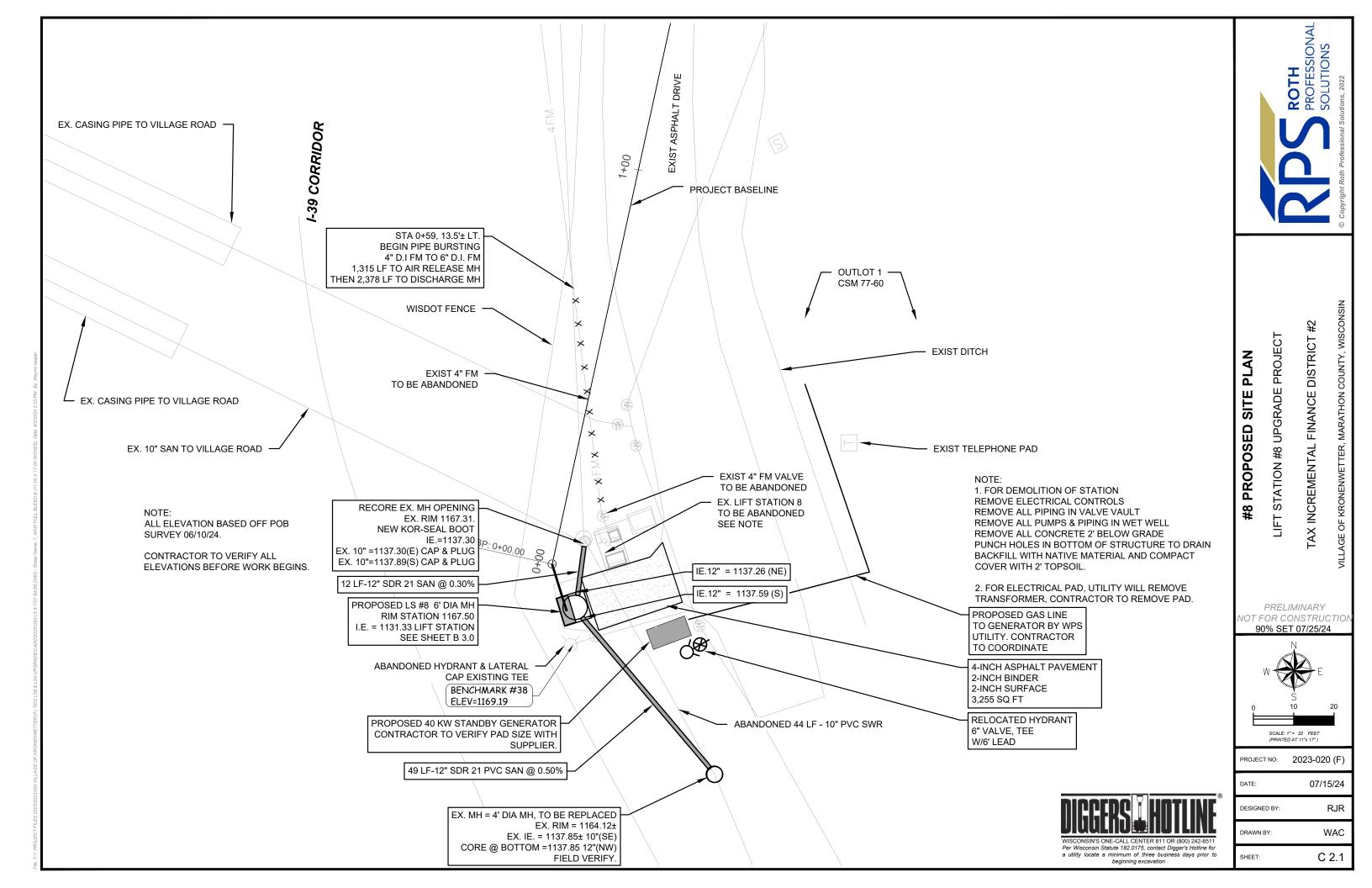






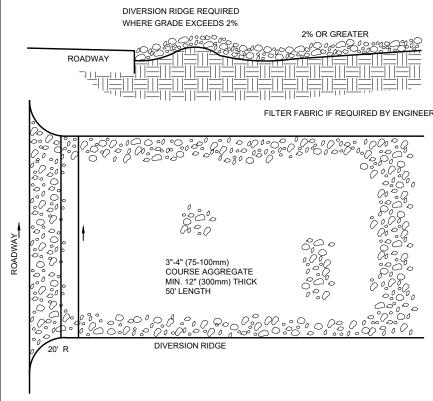






EROSION CONTROL NOTES

- 1. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- 2. CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
- 3. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 4. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
- 5. INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
- 6. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060
- 7. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
- 8. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT
- 9. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
- 10. INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071.
- 11. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- 12. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- 13. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- 14. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY ENGINEER. SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- 15. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES # 1068.
- 16. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL
- 17. FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS [SPECIFY CLASS I, II, OR III] TYPE [SPECIFY TYPE A, B, OR C] EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL): INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
- 18 FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE EROSION CONTROL MATTING.AS DIRECTED BY ENGINEER SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- 19. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- 20. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, EROSION CONTROL MATTING, SILT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.), OR AS DIRECTED BY ENGINEER
- 21. NOTIFY ENGINEER IF THERE IS A DISCHARGE OF SEDIMENT AND/OR OTHER CONTAMINANTS. A SPILL PLAN IS REQUIRED IF THERE IS POTENTIAL TO DISCHARGE CONTAMINANTS TO WATERS OF THE STATE.



NOTES:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING. REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT.
- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- 4. IF TRACKING PAD IS FILLED WITH SEDIMENT REMOVE AND REPLACE COURSE AGGREGATE.

ROCK CONSTRUCTION ENTRANCE

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COUNTY, WISCONSIN

KRONENWETTER,

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LAGE

FINANCE DISTRICT #2

INCREMENTAL

Ξ¥

EROSION CONTROL DETAILS
LIFT STATION #8 UPGRADE

PRELIMINARY
NOT FOR CONSTRUCTION
90% SET 07/24/24

PROJECT NO: 2023-020 (F)

DATE: 10/01/23

DRAWN BY: WAC

RJR

ct Digger's Hotline for usiness days prior to sheet: D 1.0

DESIGNED BY:

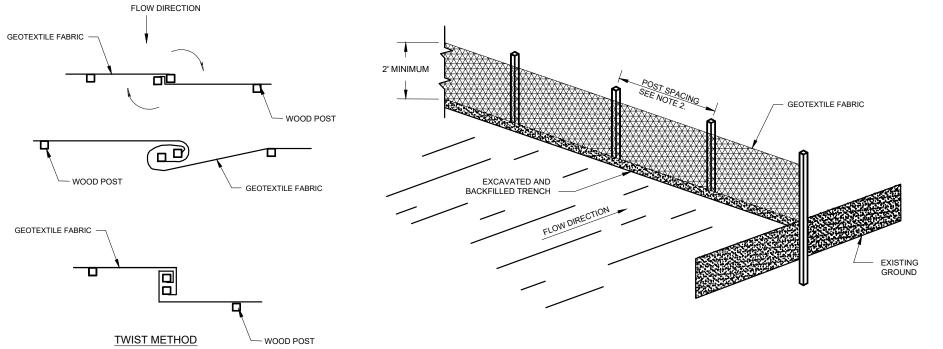
WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511 Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to beginning excavation

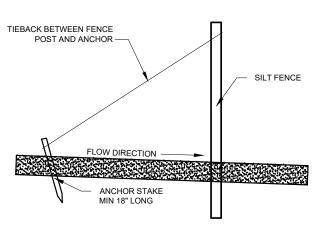
GENERAL NOTES

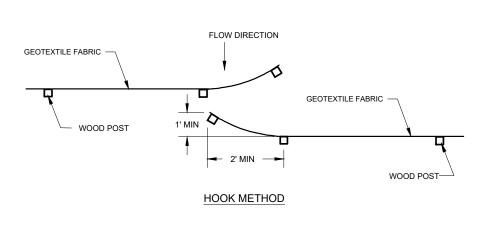
TEST REQUIREMENT	METHOD	VALUE *
MINIMUM GRAB TENSILE STRENGTH IN THE MACHINE DIRECTION	ASTM D 4632	120 LBS.
MINIMUM GRAB TENSILE STRENGTH IN THE CROSS MACHINE DIRECTION	ASTM D 4632	100 LBS.
MAXIMUM APPARENT OPENING SIZE EQUIVALENT STANDARD SIEVE	ASTM D 4751	NO. 30
MINIMUM PERMITTIVITY	ASTM D 4491	0.05 SEC ⁻¹
MAXIMUM PERMITTIVITY	ASTM D 4491	0.135 SEC ₋₁ OR 10 gpm/sq ft at 50 mm constant head.
MINIMUM ULTRAVIOLET STABILITY PERCENTAGE OF STRENGTH RETAINED AFTER 500 HOURS OF EXPOSURE	ASTM D 4355	70%

 * ALL NUMERICAL VALUES REPRESENT MINIMUM/MAXIMUM AVERAGE ROLL VALUES. (FOR EXAMPLE, THE AVERAGE OF MINIMUM TEST RESULTS ON ANY ROLL IN A LOT SHOULD MEET OR EXCEED THE MINIMUM SPECIFIED VALUES.)

- 1. THE GEOTEXTILE FABRIC SHALL BE PLACED IN THE EXCAVATED TRENCH, BACKFILLED, AND COMPACTED TO THE EXISTING GROUND SURFACE.
- 2. WOODEN SUPPORT POSTS SHALL BE A MINIMUM DIMENSION OF 1-1/8" x 1-1/8" AIR OR KILN DRIED OF HICKORY OR OAK AND 4 FEET LONG. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER LINEAL FOOT AND 5 FEET LONG. POST SPACING SHALL BE A MAXIMUM OF 8 FEET FOR WOVEN FABRIC AND 3 FEET FOR NON-WOVEN FABRIC.
- 3. THE GEOTEXTILE FABRIC SHALL BE ATTACHED DIRECTLY TO THE UPSLOPE SIDE OF WOODEN POSTS WITH 0.5 INCH STAPLES IN AT LEAST 3 PLACES, OR WITH WOODEN LATH AND NAILS. ATTACHMENT TO STEEL POSTS WILL BE BY WIRE FASTENERS OR 50 POUND PLASTIC TIE STRAPS ON THE UPSLOPE SIDE.
- 4. THE GEOTEXTILE FABRIC SHALL CONSIST OF EITHER WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BONDED, RESIN BONDED, OR COMBINATIONS THEREOF. ALL FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:







GEOTEXTILE FABRIC SEE NOTE 4 FLOW DIRECTION SUPPORT POSTS EXCAVATED AND SEE NOTE 2 FOR LENGTH BACKFILLED TRENCH EXISTING GROUND 2' MINIMUM

JOINING TWO LENGTHS OF SILT FENCE

SILT FENCE TYPICAL INSTALLATION

SILT FENCE TIE BACK (WHEN ADDITIONAL SUPPORT REQUIRED)

PROJECT NO: 2023-020 (F) DATE: DESIGNED BY: DRAWN BY: D 1.1

ROTH PROFESSIONAL SOLUTIONS

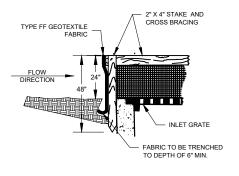
TAX INCREMENTAL FINANCE DISTRICT #2 STATION #8 UPGRADE

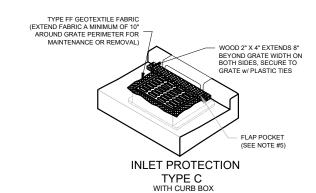
EROSION CONTROL DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

10/01/23 RJR WAC

WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511 Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to SHEET: beginning excavation

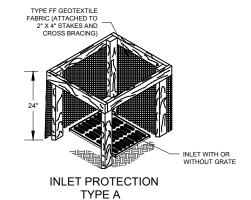




SIDE FLAP (SEE NOTE #4)

MINIMUM DOUBLE STITCHED SEAMS ALL AROUND SIDE PIECES AND ON FLAP POCKETS

TYPE FF GEOTEXTILE FABRIC (FRONT, BACK, AND BOTTOM TO BE A SINGLE PIECE OF FF FABRIC)



MAINTENANCE NOTES:

 WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

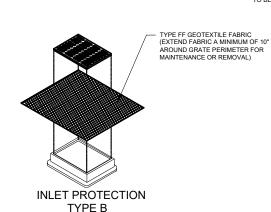


NOTES:

TAPER BOTTOM OF BAG TO MAINTAIN 3" SEPARATION BETWEEN THE BAG AND THE STRUCTURE AT THE

OVERFLOW HOLES

- TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
- 2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG, FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
- FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
- SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
- 5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



WITHOUT CURB BOX

INLET PROTECTION
TYPE D
CAN BE INSTALLED IN INLETS
WITH OR WITHOUT CURB BOXES

FLAP POCKET

INLET PROTECTION TYPES A, B, C, AND D

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EROSION CONTROL DETAILS
LIFT STATION #8 UPGRADE

PRELIMINARY NOT FOR CONSTRUCTION 90% SET 07/24/24

VILLAGE OF KRONENWETTER, MARATHON COUNTY, WISCONSIN

FINANCE DISTRIC #2

TAX INCREMENTAL

PROJECT NO: 2023-020 (F)

DATE: 10/01/23

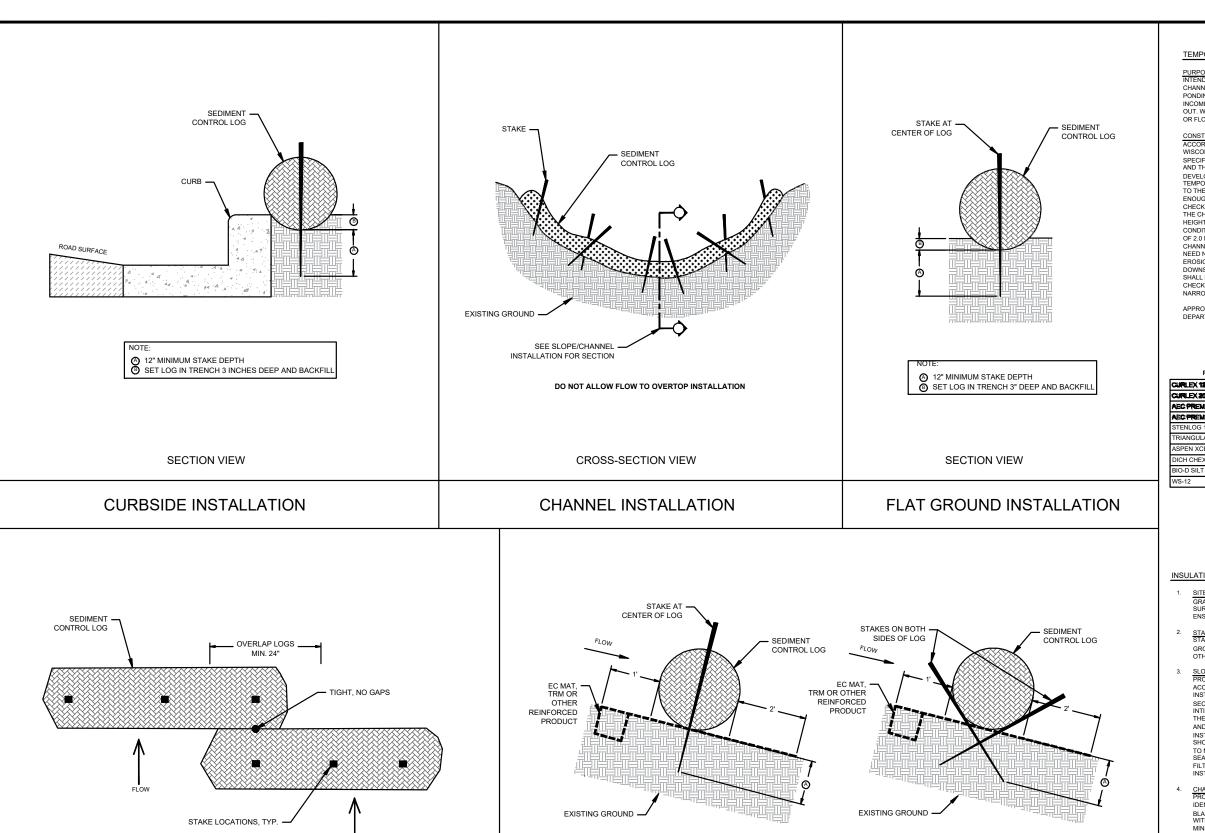
DESIGNED BY: RJR

DRAWN BY: WAC

SHEET:

D 1.2

WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511 Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to beginning excavation



PLAN VIEW

LOG OVERLAP DETAIL

A 12" MINIMUM STAKE DEPTH

SLOPE/ CHANNEL INSTALLATION

TWO-STAKE SECTION VIEW

ONE-STAKE SECTION VIEW

TEMPORARY DITCH CHECKS

PURPOSE & OPERATION: PRODUCTS IN THIS CATEGORY ARE INTENDED FOR USE AT THE BOTTOM OF FILL SLOPES AND IN CHANNELS TO INTERCEPT AND POND SEDIMENT-LADEN RUNOFF. PONDING THE WATER REDUCES THE VELOCITY OF THE INCOMING FLOW AND ALLOWS MOST OF SEDIMENTS TO SETTLE OUT. WATER EXITS THE CHECK BY EITHER FILTERING THROUGH OR FLOWING OVER THE TOP.

CONSTRUCTION METHODS: THIS WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION, AND THE STANDARD DETAIL DRAWING IN THE WISDOT FACILITY DEVELOPMENT MANUAL. IN ADDITION TO THE ABOVE, TEMPORARY DITCH CHECKS SHALL BE PLACED PERPENDICULAR TO THE FLOW LINE OF THE DITCH AND SHALL EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECKS ARE HIGHER THAN THE LOW POINT OF THE CREST OF THE CHECK. THE INSTALLED MATERIAL SHALL HAVE A MINIMUM HEIGHT OF 10 INCHES ABOVE THE FLOW LINE IN THE INSTALLED CONDITION. ALL PRODUCTS SHALL BE ENTRENCHED A MINIMUM OF 2.0 INCHES ON BARE SOIL. DITCH CHECKS INSTALLED IN A CHANNEL THAT IS CONTINUOUSLY LINED WITH EROSION MAT NEED NOT BE ENTRENCHED IF INSTALLED OVER THE TOP OF THE EROSION MAT. INSTALLATIONS SHALL HAVE STACKS ON THE DOWNSTREAM SIDE OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE THE OPPORT ON THE UPSTREAM SIDE.

APPROVED MANUFACTURED ALTERNATIVES TO THE DEPARTMENT'S DETAILS ARE LISTED BELOW.

APPROVED TEMPORARY DITCH CHECKS

PRODUCT

PRODUCT	MANUFACTURER
EX 12 INCH SEDIMENT LOG	AMERICAN EXCELSIOR
EX 20 INCH SEDIMENT LOS	AMERICAN EXCELSIOR
PREMIER 12 INCH WATTLE	AMERICAN EXCELSIOR
PREMIER 20 INCH WATTLE	AMERICAN EXCELSIOR
LOG 12	EOSION CONTROL BLANKET.COM
NGULAR SILT DIKE	TRIANGULAR SILT DIKE
N XCEL EXCELSIOR LOG	WESTERN EXCELSIOR
CHEXX	FILTREXX
SILT CHECK	RO LANKA
2	NORTH AMERICAN GREEN

INSULATION INSTRUCTIONS - LOGS AND WATTLES

- SITE PREPARATION: PREPARE SITE TO DESIGN PROFILE AND GRADE. REMOVE DEBRIS, ROCKS, CLOS, ETC. GROUND SURFACE SHOULD BE SMOOTH PRIOR TO INSTALLATION TO ENSURE LOG REMAINS IN CONTACT WITH SLOPE.
- STAPLE SELECTION: AT A MINIMUM, 1" LONG BY 1" BY 24", STAKES ARE TO BE USED TO SECURE THE LOG TO THE GROUND SURFACE, INSTALLATION IN ROCKY, SANDY OR OTHER LOOSE SOIL MAY REQUIRE LONGER STAKES.
- 3. SLOPE INSTALLATION: PLACE RECP ALONG SLOPE TO PROVIDE UPSTREAM APRON FOR LOG. SECURE RECP ACCORDING TO STANDARD SLOPE INSTALLATION INSTRUCTIONS INCLUDING UPSTREAM ANCHOR TRENCH. SECURE LOG TO BLANKET, ENSURING LOG REMAINS IN INTIMATE CONTACT WITH THE RECP OVER THE LENGTH OF THE INSTALLATION. A MINIMUM ONE FOOT UPSTREAM APRON AND TWO FOOT DOWNSTREAM APRON ARE REQUIRED FOR INSTALLATION. SUBSEQUENT, DOWNSLOPE ROWS OF LOGS SHOULD BE SPACED APPROPRIATELY FOR SITE CONDITIONS TO MINIMIZE ACCELERATION OF FLOW FUTTHER, LOG SEAMS ARE TO BE OFFSET TO ENSURE CONTINUOUS FILTRATION. FIGURE A PRESENTS A SCHEMATIC OF A SLOPE INSTALLATION IN PROFILE VIEW.
- 4. CHANNEL INSTALLATION: PLACE RECP ALONG CHANNEL TO PROVIDE UPSTREAM AND DOWNSTREAM APRON FOR LOG IDENTICALLY TO SLOPE INSTALLATION. SECURE LOG TO BLANKET, ENSURING LOG REMAINS IN INTIMATE CONTACT WITH THE RECP OVER THE LENGTH OF THE INSTALLATION. A MINIMUM OF ONE FOOT UPSTREAM APRON AND TWO FOOT DOWNSTREAM APRON ARE REQUIRED FOR INSTALLATION SUBSEQUENT, DOWNSLOPE ROWS OF LOGS SHOULD BE SPACED APPROPRIATELY FOR SITE CONDITIONS TO MINIMIZE ACCELERATION OF FLOW. FURTHER, LOG SEAMS ARE TO BE OFFSET TO ENSURE CONTINUOUS FILTRATION. FIGURE A AND FIGURE C PRESENT A SCHEMATIC OF A CHANNEL INSTALLATION.
- 5. DRAIN FILTER INSTALLATION: SURROUND DRAIN INLET TO BE PROTECTED WITH LOG, ENSURING SEAMS ARE OVERLAPPING TO MINIMIZE FLOW CIRCUMVENTING LOG. SECURE LOGS TO GROUND SURFACE ENSURING THE LOG REMAINS IN INTIMATE CONTACT WITH THE GROUND SURFACE OVER THE ENTIRE INSTALLATION. PROVIDE RECP APRON SECURED TO THE GROUND SURFACE BETWEEN DRAIN AND LOG.

WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511
Per Wisconsin Statute 182.0175, contact Digger's Hotline for
a utility locate a minimum of three business days prior to
beginning excavation

FINANCE DISTRICT #2

MARATHON COUNTY, WISCONSIN

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LIFT STATION #8 UPGRADE

TAX INCREMENTAL FINANCE DISTRICT #2

LOG DETAILS

PRELIMINARY OT FOR CONSTRUCTION 90% SET 07/24/2024

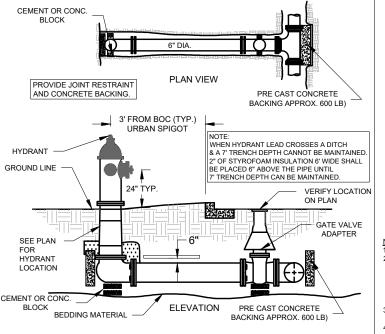
 PROJECT NO:
 2023-020 (F)

 DATE:
 07/24/2024

 DESIGNED BY:
 RJR

 DRAWN BY:
 CSS

 SHEET:
 D 1.3



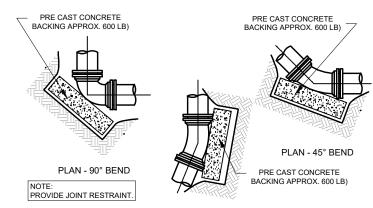
STANDARD HYDRANT SETTING

FOR USE IN UNPAVED AREAS FOR USE IN PAVED AREAS VALVE BOX COVER FINISHED GRADE FINISHED 7%" MIN IN UNPAVED AREA GRADE IN PAVED AREA BASE COURSE CONCRETE PROTECTOR RING TAMPED BACKFILL VALVE BOX TAMPED BACKFILL VALVE WATER MAIN TAMPED BACKFILL BLOCKING **SECTION** NOT TO SCALE

- NOTES:

 1. D.I.P. MAY BE USED FOR VALVE BOX EXTENSIONS.
- 2. VALVE BOX SHOULD NOT CONTACT WATER MAIN OR
- 3. CONCRETE PROTECTOR RING SHALL BE USED IN ALL
- UNPAVED AREAS.
 4. ALL MATERIALS USED IN THE POTABLE WATER SYSTEM MUST BE NSF61 AND NSF372 CERTIFIED AND MEET THE LATEST FEDERAL SAFE DRINKING WATER ACT

VALVE AND VALVE BOX INSTALLATION



PLAN - 22.5° BEND

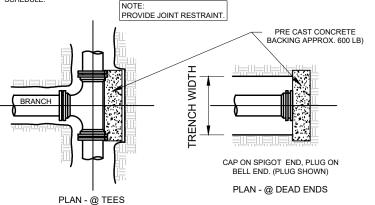
CONCRETE BACKING FOR BENDS

NOTES: 1. CONCRETE SHALL BE 3,000 PSI MIN. 2. CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASIL FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST

- UNDISTURBED SOIL.

 3. NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.
- 4 ALL FITTING AND ACCESSORIES TO BE WRAPPED WITH 10 MIL POLYETHYLENE PRIOR TO POURING BLOCKING.
- 5. VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.

- 1	PIPE			BEND	45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
ı	SIZE	А	В	А	В	А	В	Α	В	A	В	O	D	
ſ	4"	8"	12"	8"	8"	6*	6*	6*	6*	8"	9*	10"	16"	
Ι	6"	10"	12"	8"	10°	8"	8*	8*	8*	10°	10"	12"	18"	
ı	8"	15"	13"	10°	10°	8"	8*	8*	8*	10°	12"	12"	24"	
[10"	16"	14"	10°	12"	6*	10"	6*	10°	11"	14"	14*	25*	
[12"	20"	16"	12"	14"	8"	12"	8*	12*	14"	16"	16*	30"	
	14"	22"	18"	14"	16"	10°	14"	10"	14*	16*	18"	18"	34"	
ı	16"	26"	20°	16"	18"	12"	16*	12"	16*	18"	20"	20*	36*	
ı	20"	36"	26"	24"	18"	18"	13"	12"	9*	19"	18"	24*	48*	
Ī	24"	48"	33"	30"	21"	18"	18"	15"	11"	21"	21"	28"	56*	



CONCRETE BACKING

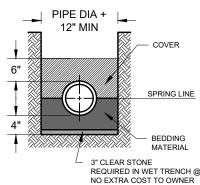
INSTALLATION:

PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE.
WORK THE MATERIAL IN AND AROUND THE PIPE BY HAND TO CAREFULLY TO A LEVEL 6" ABOVE THE PIPE

BEDDING AND COVER:

CLASS 1A - CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING

G GRADATION:	
SEIVE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5



STANDARD WATER MAIN TRENCH

PROJECT NO: 2023-020 (F)

10/01/23

RJR

WAC

D 2.0

DESIGNED BY:

DATE:

DRAWN BY:

Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to SHEET: beginning excavation

WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511

ROTH PROFESSIONAL SOLUTIONS

TAX INCREMENTAL FINANCE DISTRICT #2

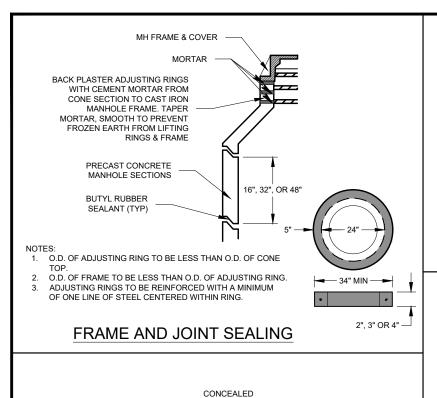
WATER MAIN DETAILS

STATION #8 UPGRADE

MARATHON COUNTY, WISCONSIN

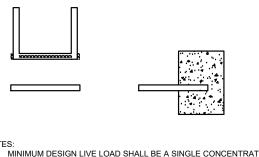
AGE OF KRONENWETTER,

PRELIMINARY IOT FOR CONSTRUCTION



CONTINUOUS

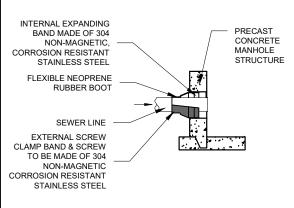
MANHOLE FRAME & COVER; NON-ROCKING SELF-SEALING COVER WITH CONCEALED PICKHOLES; NEENAH R-1550 WITH TYPE B

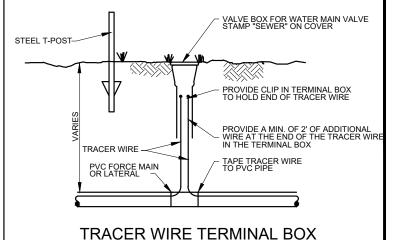


NOTES:

- MINIMUM DESIGN LIVE LOAD SHALL BE A SINGLE CONCENTRATED LOAD OF 300 LBS. VERTICALLY AND 200 LBS. PULL OUT.
- STEPS MUST BE EQUALLY SPACED VERTICALLY IN THE ASSEMBLED MANHOLE AT A MAXIMUM DESIGN DISTANCE OF 16" APART.
- STEPS SHALL BE FABRICATED OF COPOLYMER POLYPROPLENE THAT ENCAPSULATES A DEFORMED ¹/₂" GRADE 60 REINFORCING ROD.

FLEX PIPE TO MH



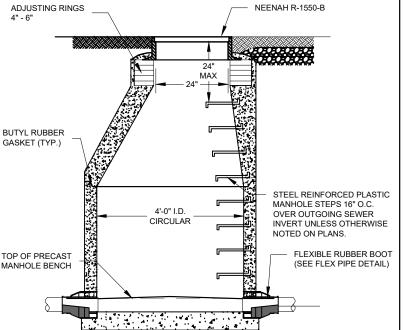




MARATHON COUNTY, WISCONSIN

TAX INCREMENTAL FINANCE DISTRICT #2

TYPICAL STEP DETAIL



UNDISTURBED MATERIAL +24" MIN COVER MATERIAL SPRING LINE BEDDING HAUNCHING

3" CRUSHED STONE REQUIRED IN WET

TRENCH @ NO EXTRA COST TO OWNER

BEDDING AND COVER MATERIAL: CLASS 1A: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION

PIPE O.D.

VE SIZE	%PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 6	0-5

CLASS 1B: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION

EVE SIZE	%PASSING BY WEIGHT
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 8	0-5

BEDDING

PLACE AND COMPACT BEDDING MATERIAL AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. COMPACT CLASS 1B WITH HAND TAMPER OR VIBRATORY COMPACTOR TO 85% STANDARD PROCTOR.

FLEXIBLE PIPE BEDDING (INC. CMP)

BEDDING AND COVER MATERIAL

CLASS 1A: CLEAN, ANGULAR,= CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

IEVE SIZE	%PASSING BY WEIGH
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO 6	0-5

CLASS 1B: CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	%PASSING BY WEIG
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 8	0-5

INSTALLATION:

PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE. WORK THE MATERIAL IN AND AROUND BY HAND TO PROVIDE UNIFORM SUPPORT. PLACE COVER MATERIAL CAREFULLY TO LEVEL 6"

RIGID PIPE BEDDING (RCP)

SEWER DETAILS STATION #8 UPGRADE SANITARY

OD/8

4" MIN

PIPE O.D.

PRFI IMINARY IOT FOR CONSTRUCTION

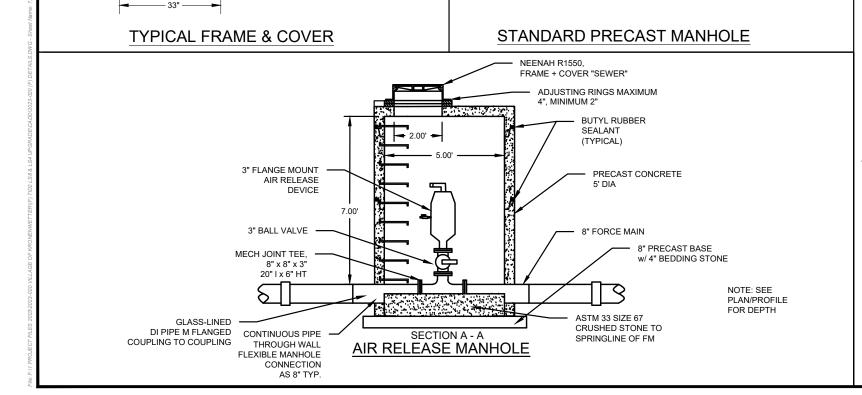
PROJECT NO:	2023-020 (F)		
DATE:	10/01/23		

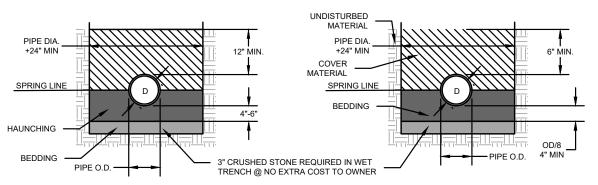
DESIGNED BY: RJR WAC DRAWN BY

SHEET:

D 3.0

WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511 Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to beginning excavation





BEDDING AND COVER MATERIAL:

CLASS 1A: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SIEVE SIZE	%PASSING BY WEI
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 6	0-5

CLASS 1B: CRUSHED STONE OR GRAVEL CONFORMING

TO FOLLOWING GRADATION:			
SIEVE SIZE	%PASSING BY WEIGHT		
1/2"	100		
3/8"	85-100		
NO. 4	10-30		
NO. 8	0-5		

PLACE AND COMPACT BEDDING MATERIAL AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. COMPACT CLASS 1B WITH HAND TAMPER OR VIBRATORY COMPACTOR TO 85% STANDARD PROCTOR.

FLEXIBLE PIPE BEDDING (INC. CMP)

BEDDING AND COVER MATERIAL: CLASS 1A: CLEAN, ANGULAR,= CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING

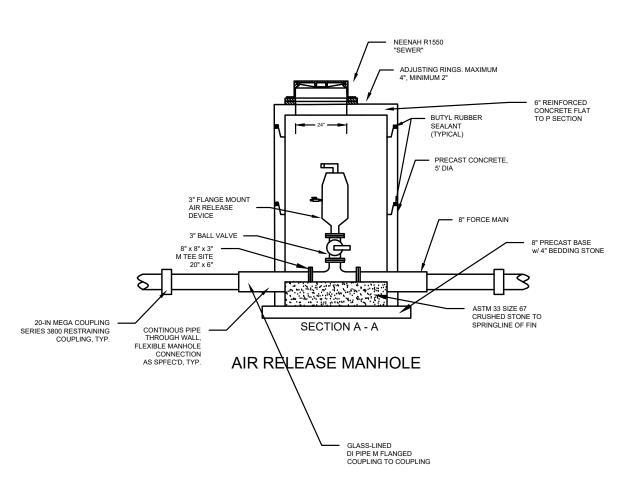
GRADATION	ν.
SIEVE SIZE	%PASSING BY W
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 6	0-5

CLASS 1B: CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	%PASSING BY WEIGHT
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 8	0-5

INSTALLATION: PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE. WORK THE MATERIAL IN AND AROUND BY HAND TO PROVIDE UNIFORM SUPPORT. PLACE COVER MATERIAL CAREFULLY TO LEVEL 6"

RIGID PIPE BEDDING (RCP)





SANITARY SEWER DETAILS LIFT STATION #8 UPGRADE /ILLAGE OF KRONENWETTER, MARATHON COUNTY, WISCONSIN

TAX INCREMENTAL FINANCE DISTRICT #2

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT NO: 2023-020 (F)

10/01/23

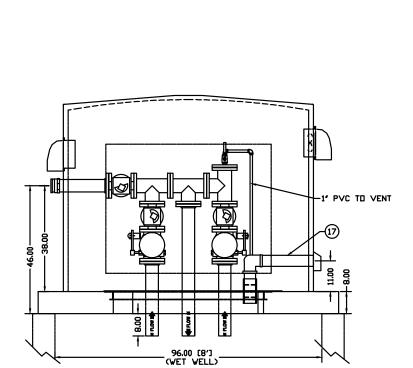
WAC

DATE:

DRAWN BY:

RJR DESIGNED BY:

D 3.1 SHEET:



FRONT VIEW

NOTES:

1) POWER ENTRANCE INTO ENCLOSURE AND CONDUIT TO PANEL TO BE PROVIDED BY OTHERS.

2) WIRE PENETRATIONS:

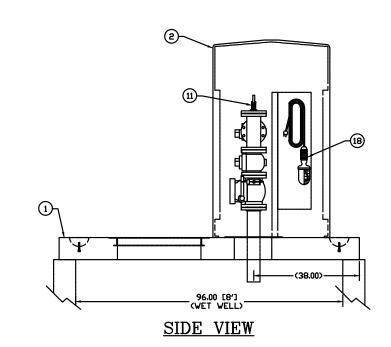
-PUMP CABLE - 1.5' COUPLING @2

-LEVEL TRANSDUCER & FLOATS - .75' COUPLING @5

3) LIFT HOOK LOCATIONS SUBJECT TO CHANGE PER CONCRETE MANUFACTURER

54.00 (HATCH)

PLAN VIEW



-	_	PAINT, DEVOE
_	_	
18	1	HAND LAMP W/ 25' CORD
17	1	PVC WET WELL VENT W/SCREENED RAIN HOOD
16	1	VENTILATION INLET, DAYTON 2C517 LOUVER & RAIN HOOD
15	1	VENTILATION BLOWER, DAYTON 1HLA1, W/DAYTON 2C517 LOUVER & RAIN HOOD
14	1	HEATER, 1.5 KW
-	-	
13	1	CONTROL PANEL, 42x30x10" (PROVIDED BY B&M TECHNICAL SERVICE, INSTALLED BY DPI)
_	-	LEVEL SENSING & ALARM EQUIPMENT (PROVIDED BY B&M TECHNICAL SERVICE)
-	1	THERMOSTAT, VENTILATION BLOWER CONTROL
_	1	CONVENIENCE OUTLET
-	-	CONDUIT, PVC
_	-	
12	1	COUPLING, 4" PT QUICK CONNECT
11	1	VALVE, 1" BALL, SMITH COOPER
10	2	VALVE, 4" CHECK, PRATT 8001 W/ LEVER AND SPRING
9	3	VALVE, 4" PLUG, MILLIKEN W/ LEVER
_	-	HARDWARE, NUTS, BOLTS, GR. 2 ZINC PLATED STEEL
_	ı	GASKET, RED RUBBER RING (.06")
_	-	
8	3	TEE, 4x4x4" D.I.
7	1	FLANGE, 4" ANSI 150#, BLIND W/2" NPT HOLE
_	-	
6	4	FLANGE, 4" ANSI 150#, 304 STAINLESS STEEL
5	117"	PIPE, 4" SCH 40, 304 STAINLESS STEEL
-	•	
4	1	PIPE PENETRATION PLATE, .25" 304 STAINLESS STEEL
3	1	HATCH, 30x54", HALLIDAY PRODUCTS
2	1	ENCLOSURE, FIBERGLASS, 90x42x71", 2 DOORS, WHITE
1	1	CONCRETE BASE, 9'x9'x8", EMBEDDING LIFT HOOKS, LINE-X COATING

Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to TYPICAL ABOVE GROUND VALVE VAULT DETAILS

TAX INCREMENTAL FINANCE DISTRICT #2 LIFT STATION #8 UPGRADE PROJECT

ROTH PROFESSIONAL SOLUTIONS

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT NO: 2023-020 (F)

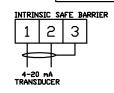
DATE: 01/05/24

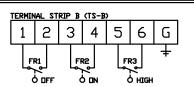
DESIGNED BY: RJR

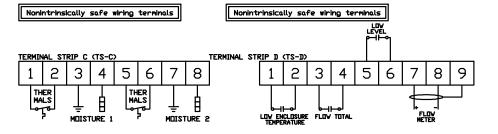
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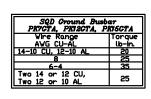
DEVICES ON THE BOTTOM OF THE TERMINAL STRIP ARE REMOTE COMMING INTO CONTROL PANEL. DEVICES ON THE TOP OF THE TERMINAL STRIP ARE CONTACTS LEAVING THE CONTROL PANEL.

Intrinsically safe wiring terminals
'Install in accordance with Article 504 of the National Electrical Code."









Wire Range	Torque		
AVG CU	llo-in.		
	15		
6-10	40		
2-4	50		
(LAMA1/0-14-QY) 10-14	35		
8	40		
4-6	45		
	50		
	275		
	375		
	275		
	375		
(LAMA600-38-6Y) 600-4	500		
Two-Barrel			
(LAM2A1/0-14-6Y) 10-14	35		
8	40		
4-6	45		
	(LAMA2-14-QY) 12-14 6-10 9-10 (LAMA1/0-14-QY) 10-14 8 4-6 2/0-3 (LAMA250-56-QY) 2-6 250-1 (LAMA350-38-QY) 2-6 350-1 (LAMA600-38-6Y) 600-4		

Panduit Cround Lug One-Barrel

SQD Terminal Blo GK6 + GR6	
Wire Range	Torque
AWG CU	lb-in.
(Type GK6) 22-10 (Type GR6) 22-8	11-12
(Type GR6) 22-8	18-20

CUSTOMER		OF KRONEN	IWET	TER
	LIFT STA			
I ENCLOSURE	UL TYPE	RATING	UL	TYPE 1
VOLTAGE	240	PHASE		HZ 60
H.P.				
F.L.A.	22	22		

TOTAL F.L.A. 74 SERIAL # 14-DATE: 03/21/2024

SCCR		SYMETRIC			RM
MANUFACTURED STA CON INC 2	BYı				
STA CON INC 25	525 S. C	IRT APPPKA	FL 32	703	

CUSTOMER VILLAGE OF KRONENWETTER JOB NAME LIFT STATION #4 REPLACEMENT ENCLOSURE UL TYPE RATING: UL TYPE 1 VOLTAGE 240 PHASE 3 HZ 60 TOTAL F.L.A. 74 SERIAL # 14-DATE: 03/21/2024 SCCR 10KA SYMETRICAL @ 240V RMS MANUFACTURED BY: STA CON INC 2525 S. OBT APOPKA FL 32703



a utility locate a minimum of three business days prior to

beginning excavation

ELECTRICAL ONE-LINE DIAGRAM

TAX INCREMENTAL FINANCE DISTRICT #2 LIFT STATION #8 UPGRADE PROJECT

VILLAGE OF KRONENWETTER, MARATHON COUNTY, WISCONSIN

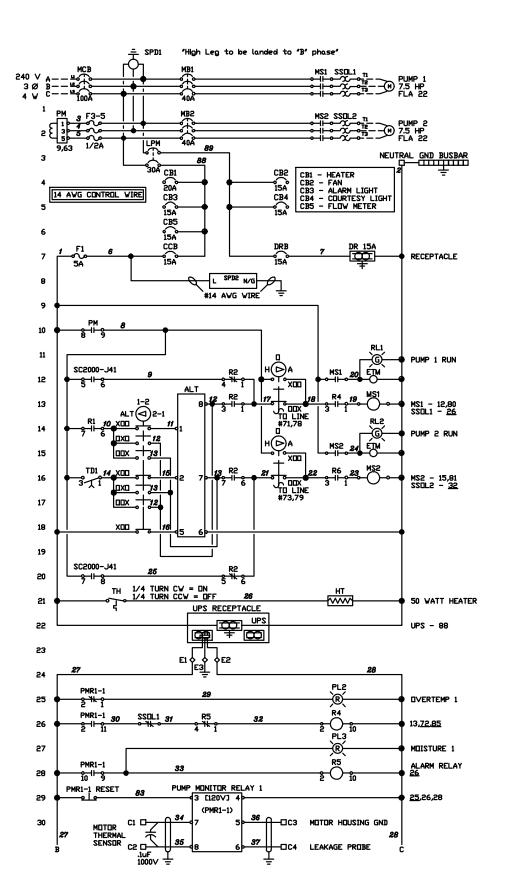
ROTH PROFESSIONAL SOLUTIONS

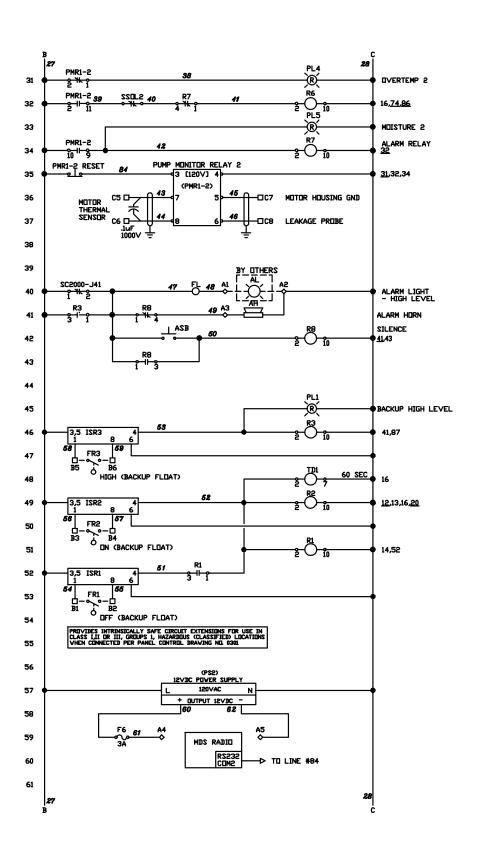
PRELIMINARY NOT FOR CONSTRUCTION 90% SET 08/01/24

PROJECT NO: 2023-020 (F) DATE: 01/05/24 RJR DESIGNED BY: WAC DRAWN BY:

SHEET:

E 1.0







a utility locate a minimum of three business days prior to beginning excavation

ELECTRICAL ONE-LINE DIAGRAM

TAX INCREMENTAL FINANCE DISTRICT #2 LIFT STATION #8 UPGRADE PROJECT

ROTH PROFESSIONAL SOLUTIONS

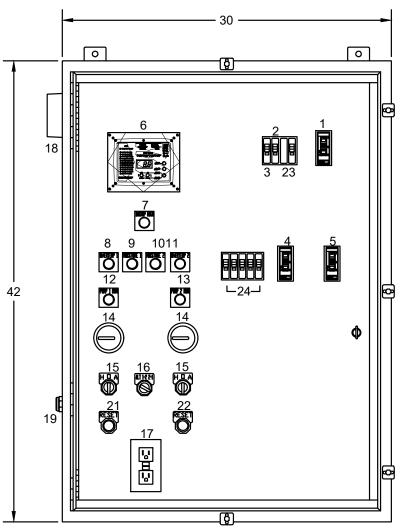
VILLAGE OF KRONENWETTER, MARATHON COUNTY, WISCONSIN **PRELIMINARY** NOT FOR CONSTRUCTION 90% SET 08/01/24

PROJECT NO: 2023-020 (F) DATE: 01/05/24

RJR WAC DRAWN BY:

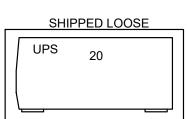
DESIGNED BY:

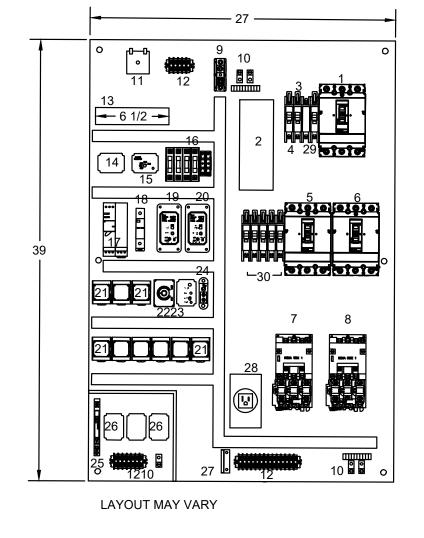
E 1.1 SHEET:



OUTER DOOR HAS BEEN REMOVED FOR CLARITY

- 1 MCB MAIN CIRCUIT BREAKER
- 2 CCB CONTROL BREAKER
- 3 DRB RECEPTACLE BREAKER
- 4 MB1 MOTOR BREAKER 1
- 5 MB2 MOTOR BREAKER 2
- 6 SC2000 CONTROLLER
- 7 PL1 BACKUP HIGH LEVEL LIGHT
- 8 PL2 OVERTEMP 1 LIGHT
- 9 PL3 MOISTURE 1 LIGHT
- 10 PL5 MOISTURE 2 LIGHT
- 11 PL4 OVERTEMP 2 LIGHT
- 12 RL1 PUMP 1 RUN LIGHT
- 13 RL2 PUMP 2 RUN LIGHT 14 - ETM ELAPSED TIME METERS
- 15 HOA HAND-OFF-AUTO SELECTOR SWITCHES
- 16 PAM PUMP ALTERNATOR SELECTOR SWITCH
- 17 DR GFI DUPLEX RECEPATCLE
- 18 AH ALARM HORN
- 19 ASB ALARM SILENCE BUTTON
- 20 UPS UNITERRUPTABLE POWER SUPPLY
- 21 PMR1-1 RESET
- 22 PMR1-2 RESET
- 23 LPM LIGHT PANEL BREAKER
- 24 CB1-5 CIRCUIT BREAKERS





- 1 MCB MAIN CIRCUIT BREAKER
- 2 SPD1 SURGE ARRESTOR
- 3 CCB CONTROL BREAKER
- 4 DRB RECEPTACLE BREAKER
- 5 MB1 MOTOR BREAKER 1
- 6 MB2 MOTOR BREAKER 2
- 7 MS1 MOTOR STARTER 1
- 8 MS2 MOTOR STARTER 2
- 9 N NEUTRAL
- 10 G GROUND
- 11 FL FLASHER
- 12 TS TERMINAL STRIP
- 13 RADIO
- 14 PS1 POWER SUPPLY 1
- 15 PM PHASE MONITOR
- 16 FUSE HOLDERS

- 17 PS2 POWER SUPPLY 2
- 18 SPD2 SURGE ARRESTOR
- 19 PMR1-1 PUMP MONITOR RELAY 1
- 20 PMR1-2 PUMP MONITOR RELAY 2
- 21 R RELAYS
- 22 TD TIME DELAY
- 23 ALT AUTO ALTERNATOR
- 24 TH THERMOSTAT
- 25 ISB INTRINSICALLY SAFE BARRIER
- 26 ISR INTRINSICALLY SAFE RELAYS
- 27 HT HEATER
- 28 RECEPTACLE FOR UPS
- 29 LPM LIGHT PANEL BREAKER
- 30 CB1-5 CIRCUIT BREAKERS



beginning excavation



LIFT STATION #8 UPGRADE PROJECT
TAX INCREMENTAL FINANCE DISTRICT #2

ELECTRICAL PANEL DIAGRAM

 PROJECT NO:
 2023-020 (F)

 DATE:
 01/05/24

 DESIGNED BY:
 RJR

WAC

PRELIMINARY

90% SET 08/01/24

NOT FOR CONSTRUCTION

SHEET: E 2.0

DRAWN BY:



GAS SERVICE DETAIL
LIFT STATION #8 UPGRADE

TAX INCREMENTAL FINANCE DISTRICT #2

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT NO: 2023-020 (F)

DATE: 10/01/23

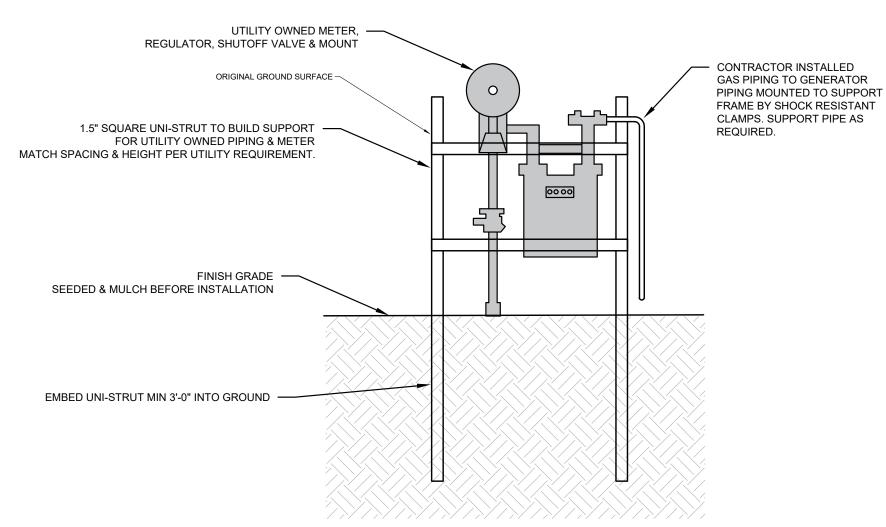
DESIGNED BY: RJR

DRAWN BY: WAC

SHEET: F 1.0

NOTE: CONTRACTOR SHALL INSTALL SUPPORT AS CLOSE TO GENERATOR PAD AS POSSIBLE

FOLLOW UTILITY REQUIREMENTS FOR HEIGHT AND SIZE OF FRAME TO SUPPORT METER.



GAS SERVICE @ GENERATOR SITE

WISCONSIN'S ONE-CALL CENTER 811 OR (800) 242-8511 Per Wisconsin Statute 182.0175, contact Digger's Hotline for a utility locate a minimum of three business days prior to beginning excavation