

Appendix D – WEGO Sump Pump Storm IFT

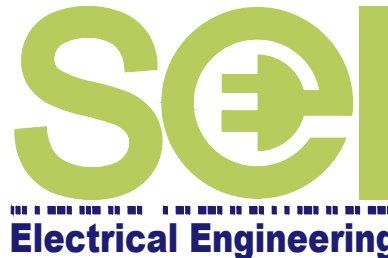


WEGO LIFT STATION

8208 HEARTLAND FOREST ROAD



DWG NO		DRAWING TITLE
MECHANICAL		
M-100	SCHEDULES	
M-200	SITE SERVING PLAN DEMOLITION & NEW LAYOUT	
M-201	SECTION & DETAILS 1	
M-202	PLAN & DETAILS 2	
ELECTRICAL		
E0.00	ELECTRICAL GENERAL NOTES, LEGENDS AND DETAILS	
E1.00	ELECTRICAL STORM WATER LIFT STATION DEMOLITION & NEW PLANS	



GENERAL NOTES

2	RE-ISSUED FOR PERMIT / TENDER	MAY 04, 2023	H.R.
1	RE-ISSUED FOR PERMIT / TENDER	JAN 26, 2023	H.R.
0	ISSUED FOR PERMIT / TENDER	SEPT. 07, 2022	R.T.Y.
No.	DESCRIPTION	DATE	BY

REVISIONS



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PROJECT:

WEGO SUMP PUMP

8208 HEARTLAND FOREST ROAD
NIAGARA FALLS, ONTARIO

START DATE:	DRAWN BY:	DESIGNED BY:
MAR. 31, 2021	M.B./R.T.Y	R.T.Y

DRAWING TITLE:

COVER SHEET

SCALE:	DRAWING No.:
N.T.S.	G-000
PROJECT:	
21-201-020	

PLOT DATE: May 4, 2023

ORIGINAL SHEET SIZE: ARCH D

30cm 20cm 10cm 0

PLOT DATE: May 4, 2023

ORIGINAL SHEET SIZE: ARCH D

LEGEND – GENERAL			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION VALVE		PIPE UP
	GLOBE VALVE		PIPE DOWN
			CAPPED PIPE
	BALL VALVE		DIRECTION OF FLOW
	CHECK VALVE		PIPE SLEEVE
	FLOAT VALVE		CONTINUOUS PIPE
	HOSE-END DRAIN VALVE		UNION
	VALVED AND CAPPED PROVISION		STRAINER
	GATE VALVE AND FLOW SWITCH		PUMP
	SHUT-OFF VALVE AND ACCESS PANEL		PRESSURE GAUGE WITH COOK
	BUTTERFLY VALVE		THERMOMETER
	LOCKSHIELD VALVE		STARTER
	PLUG VALVE	CTE	CONNECT TO EXISTING
	PRESSURE REDUCING VALVE	AP	ACCESS PANEL
	FLOW SWITCH	AD	ACCESS DOOR
	CIRCUIT BALANCING VALVE		
	BALANCING VALVE (PLUG)		
	NEEDLE VALVE		
	PRESSURE DIFFERENTIAL VALVE		
	BACKWATER VALVE INLINE		
	BACKWATER VALVE WITH ACCESS		

LEGEND – PLUMBING & DRAINAGE	
SYMBOL	DESCRIPTION
	SANITARY DRAIN – NEW
	BURIED SANITARY DRAIN
	STORM DRAIN
	BURIED STORM DRAIN
	PUMPED DRAIN
	PUMPED DRAIN UNDER FLOOR
	VENT PIPE
	DRAIN WITH CLEANOUT
	DRAIN WITH CLEANOUT UP TO FLOOR
	DRAIN WITH CLEANOUT UP TO FLOOR
	GREY WATER
	PIPE UP
	PIPE DOWN
	CAPPED PIPE
	DIRECTION OF FLOW
	FLOOR DRAIN OR ROOF DRAIN
	FLOOR DRAIN (PARKING)
	CATCHBASIN
	MANHOLE

EXISTING PUMP SCHEDULE (RELOCATED)																			
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	FLUID	SERVICE DUTY	TYPE	CONTROL	SIZE	FLOW		HEAD		EFF %	RPM	ELECTRICAL DATA			REMARKS
										L/S	USGPM	M	ft.			VOLTAGE	KW	HP	
P-08 & P09	STORM SUMP PUMP	ON SITE – OUTDOOR	XYLEM	DUPLEX	STORM WATER	LEAD/ LAG	SUBMERSIBLE	–	–	77.0	1220	5.0	16.4		1735	575/3 /60	7.46	10.0	–

NOTES:
SPECIFICATIONS BASED ON XYLEM

DRAWING SCHEDULE	
DWG NO	DRAWING TITLE
M-100	SCHEDULES
M-200	SITE SERVING PLAN – DEMOLITION & NEW LAYOUT
M-201	SECTIONS AND DETAILS 1
M-202	PLAN AND DETAILS 2

- GENERAL NOTES:
- CONTRACTOR MUST CHECK AND VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
 - THE CONTRACTOR TO FIELD VERIFY / LOCATE ALL BURIED LOCATION OF EXISTING UTILITIES AND REQUIRED PERMIT AND LICENSES.
 - CONTRACTOR TO PROVIDE PROPER BEDDING AND COMPACTION FOR THE INSTALLATION OF THE MANHOLE (LIFT STATION). FOLLOW WILKINSON INSTALLATION GUIDELINES FOR PRECAST CONCRETE STRUCTURE.
 - CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
 - CONSTRUCTION OF SEWERS SHALL CONFORM ACCORDING TO THE CITY OF NIAGARA FALLS CONSTRUCTION AND MATERIAL SPECIFICATIONS STANDARD (LATEST EDITION), THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND MINISTRY OF ENVIRONMENT GUIDELINES (LATEST EDITION).
 - SEWERS (GRAVITY) ARE TO BE INSTALLED WITH MINIMUM COVER OF NO LESS THAN 1.2M
 - ALTERNATE MATERIALS WILL NOT BE ALLOWED UNLESS FIRST APPROVED IN WRITING BY CONSULTANT AND CITY OF NIAGARA FALLS.
 - CONTRACTOR TO REPAIR DAMAGED SODDED AREA.
 - CONTRACTOR TO PROVIDE AUXILIARY STEEL AS REQUIRED FOR THE INSTALLATION OF PUMPS IN THE NEW MANHOLE (LIFT STATION).
 - FILL SHALL BE APPROVED, FREE OF ORGANIC MATERIALS COMPACTED TO DRY DENSITY NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY. AFTER COMPACTION, SOIL DENSITY TEST SHALL BE CONDUCTED AND ENSURE ADEQUATE COMPACTION AND STABILITY OF THE FILL.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF TEMPORARY PIPING OFFSITE.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF EXISTING LIFT STATION OFFSITE.
 - PERFORATED SPREADER PIPE TO BE REMOVED AND RE-INSTALLED AS PER OPS SPECIFICATIONS.
 - CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF SIDEWALKS, ROADWAYS, AND LANDSCAPE ITEMS.

- STORM SEWERS:
- STORM MAINS TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF NIAGARA FALLS STANDARDS AND SPECIFICATIONS.
 - PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL TO BE GRAN. "A" TRENCH BACK FILLING TO BE NATIVE MATERIAL REPLACED IN 300MM LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - STORM SEWERS 200MM TO 600MM SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR 35 ASTM-D3034 CERTIFIED TO CSA B182.2.
 - ALL BENDS AND FITTINGS MUST BE RESTRAINED USING MECHANICAL THRUST / MASS RESTRAINT THAT MEET THE REQUIREMENT OF THE UNI-BELL PVC ASSOCIATION AS DESCRIBED IN UNI-B-13.
 - SEWER TRENCHES SHALL BE BACKFILLED WITH SELECT PARENT MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY.

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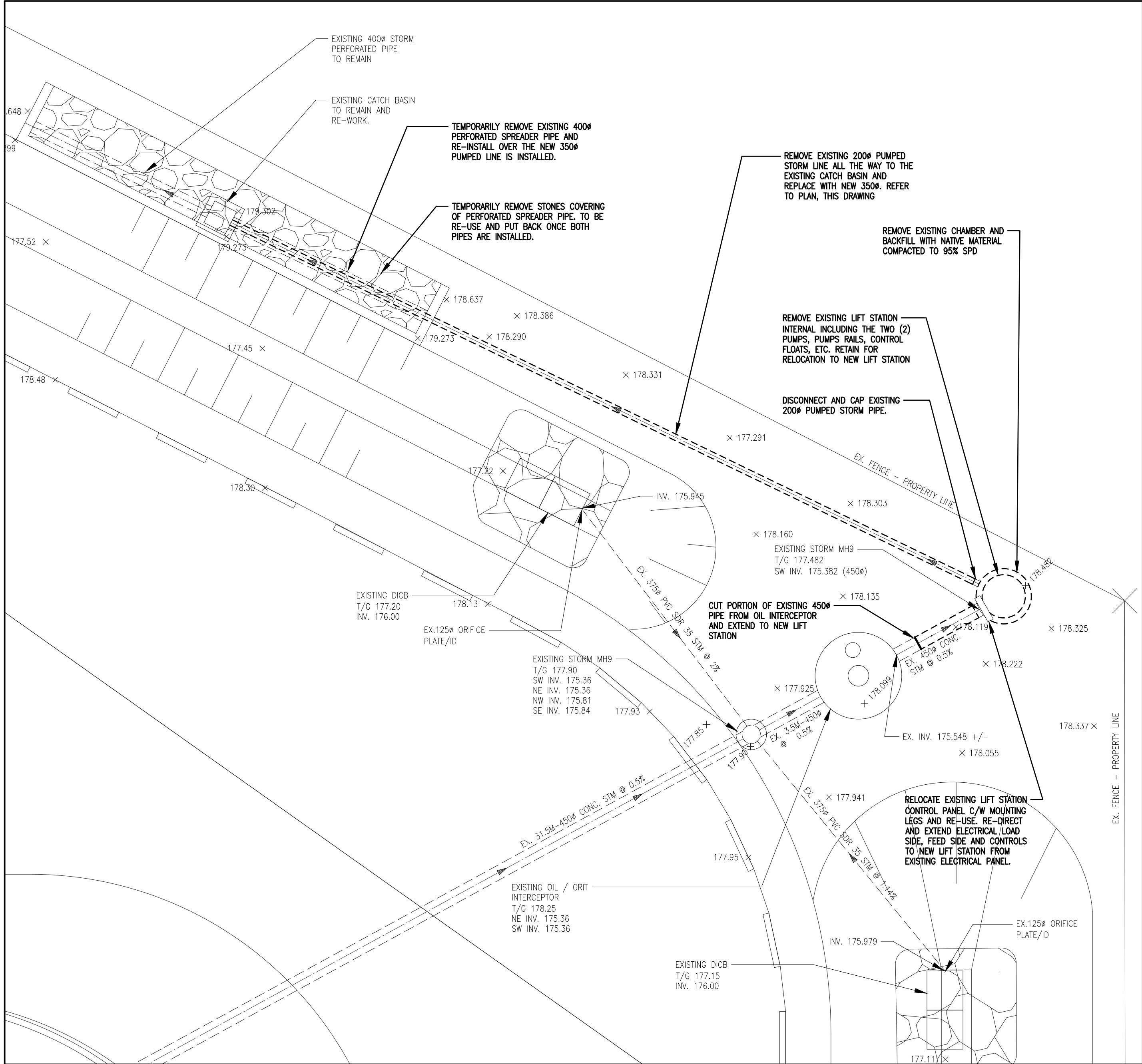
START DATE: MAR. 31, 2021	DRAWN BY: M.B./R.T.Y	DESIGNED BY: R.T.Y
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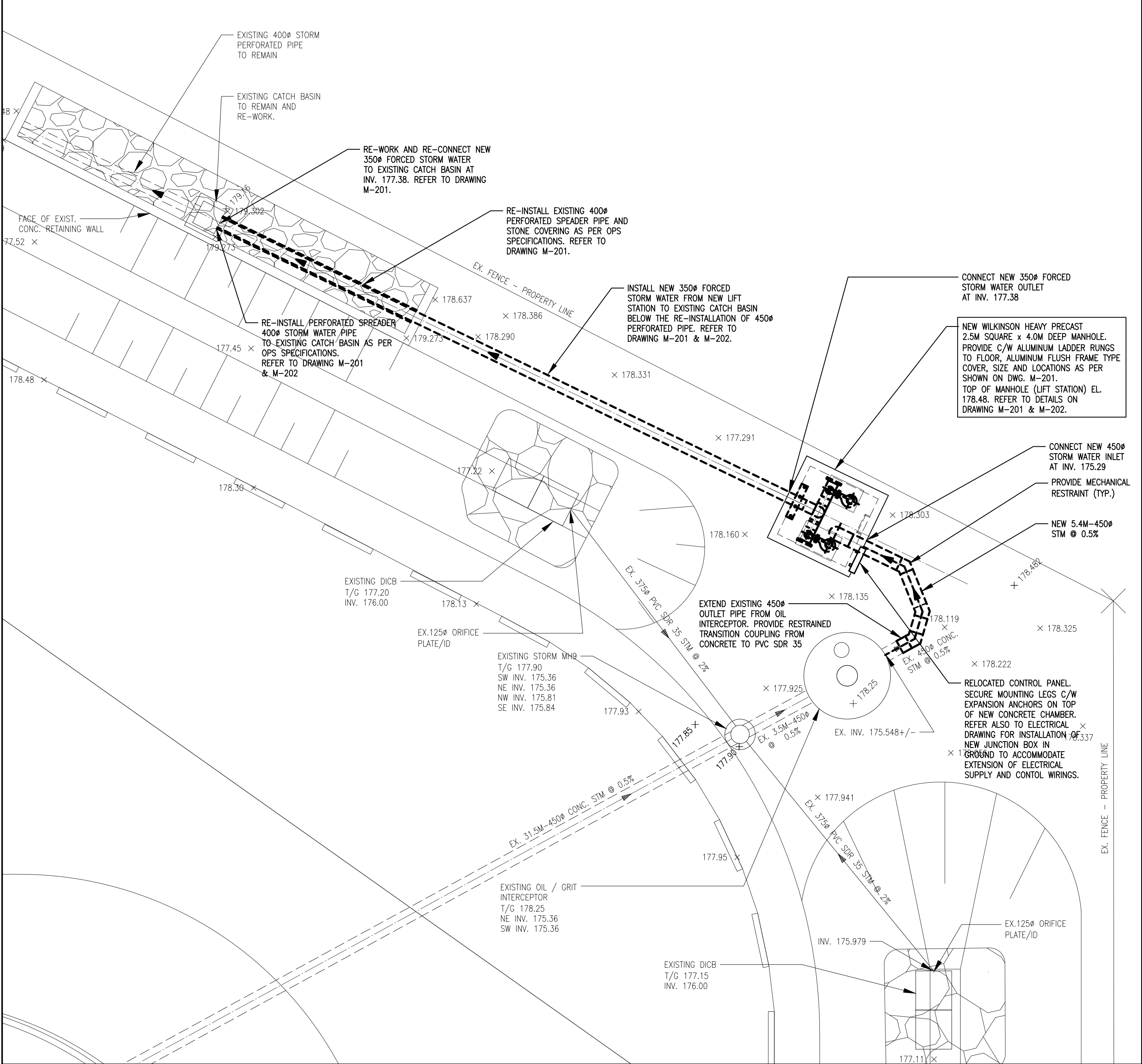
SCHEDULES

SCALE: N.T.S	DRAWING No.: M-100
PROJECT: 21-201-020	

30cm20cm10cm0



1 STORM WATER LIFT STATION - DEMOLITION PLAN
M-200 SCALE: 1:100

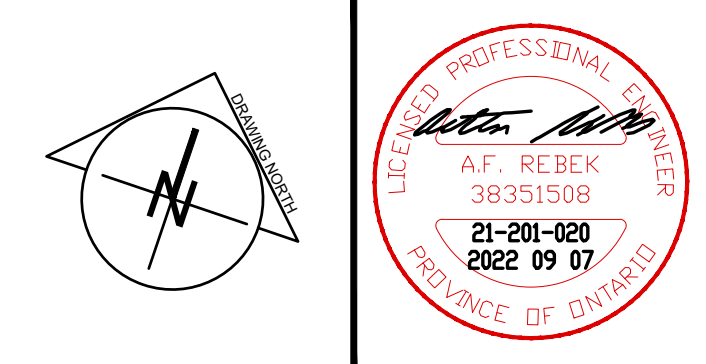


2 STORM WATER NEW LIFT STATION - REVISED PLAN
M-200 SCALE: 1:100

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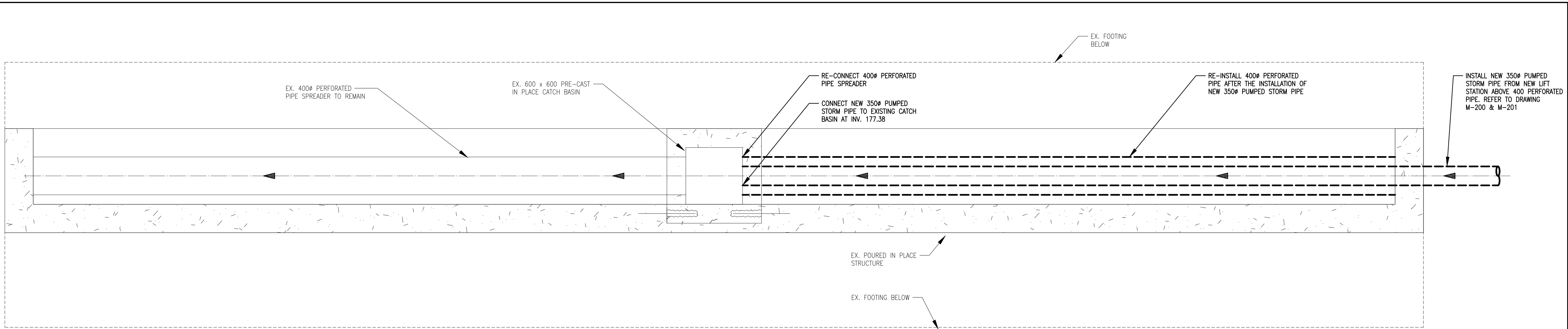
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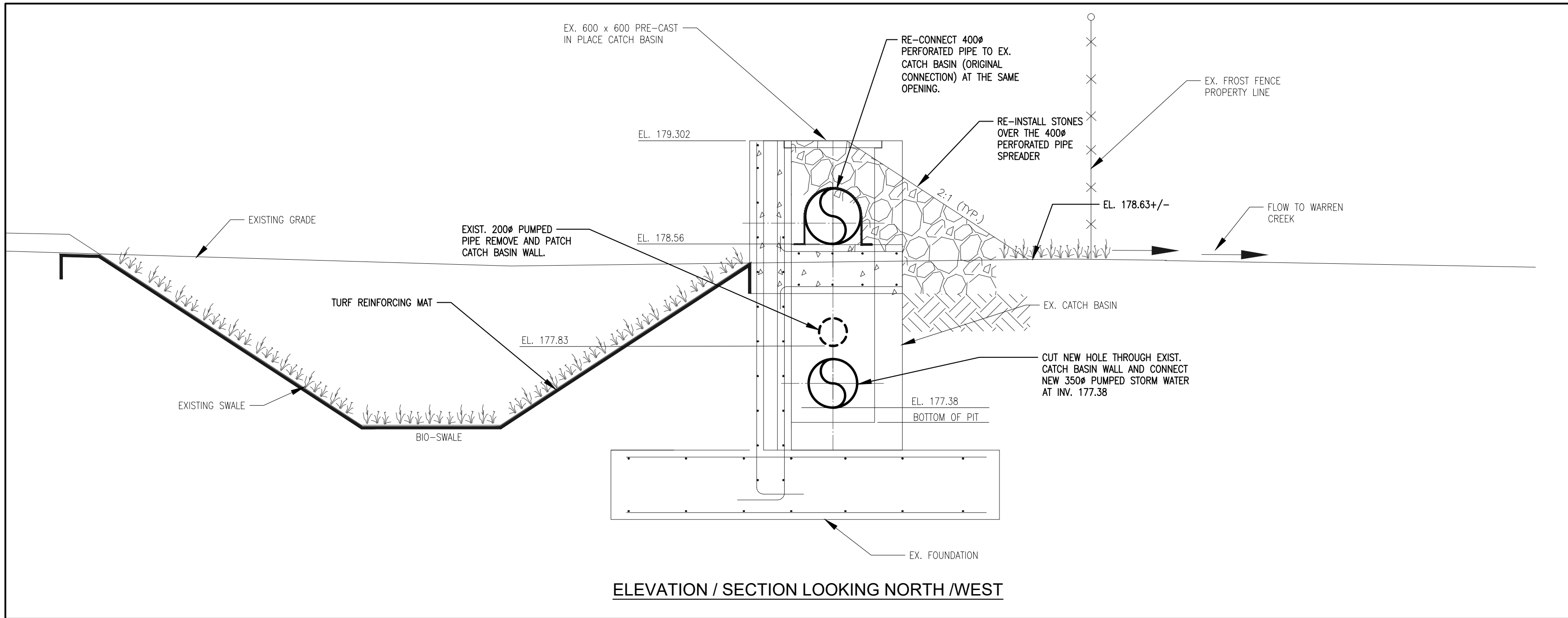
SITE SERVICING PLAN -
DEMOLITION AND NEW
LAYOUT

SCALE: AS NOTED	DRAWING No.: M-200
PROJECT: 21-201-020	



PLAN AT STORM WATER FLOW SPREADER

1 PLAN VIEW- LEVEL/FLOW SPREADER & PUMPED STORM LINE
M-201 SCALE: 1:25



ELEVATION / SECTION LOOKING NORTH /WEST

2 ELEVATION LOOKING NORTH /WEST
M-201 SCALE: 1:25

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DRAWING TITLE:		
PLAN & DETAILS 2		

SCALE: AS NOTED	DRAWING No.: M-202
PROJECT: 21-201-020	

PLOT DATE: May 4, 2023