

CITY OF DRYDEN

MARIO MILANESE SUBDIVISION STAGE 3

ISSUED FOR
99% REVIEW

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DETAIL PLANS

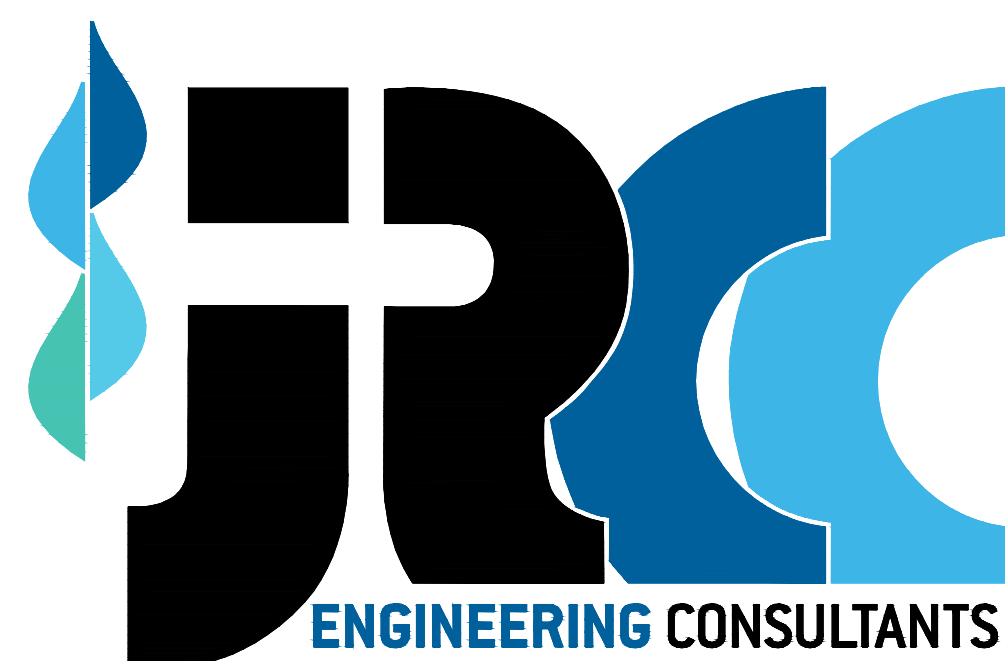
DT1	GRADING AND DRAINAGE DETAILS
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LIFT STATION PLANS

LS1	LIFT STATION SECTION DETAILS
LS2	LIFT STATION DETAILS

SIGNAGE PLANS

SN1	SIGNAGE PLAN
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ENGINEERING CONSULTANTS

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DRAWING LEGEND:

PIPING:

	EXISTING WATERMAIN
	PROPOSED WATERMAIN
	FUTURE WATERMAIN
	EXISTING SEWERMAIN
	PROPOSED SEWERMAIN
	FUTURE SEWERMAIN
	EXISTING FORCEMAIN/PRESSURE SEWER
	PROPOSED FORCEMAIN/PRESSURE SEWER
	FUTURE FORCEMAIN/PRESSURE SEWER
	EXISTING RAW WATERMAIN
	PROPOSED RAW WATERMAIN
	FUTURE RAW WATERMAIN
	EXISTING LAND DRAINAGE SEWER
	PROPOSED LAND DRAINAGE SEWER
	FUTURE LAND DRAINAGE SEWER
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING VALVE
	PROPOSED VALVE
	EXISTING CLEANOUT
	PROPOSED CLEANOUT
	EXISTING MANHOLE
	PROPOSED MANHOLE
	EXISTING CURBSTOP
	PROPOSED CURBSTOP
	EXISTING CURB INLET
	PROPOSED CURB INLET
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN

ROADS AND DRAINAGE:

	EXISTING ROAD CENTERLINE
	PROPOSED ROAD CENTERLINE
	FUTURE ROAD CENTERLINE
	EXISTING ROAD SHOULDER
	PROPOSED ROAD SHOULDER
	EXISTING ROAD EDGE
	PROPOSED ROAD EDGE
	FUTURE ROAD EDGE
	EXISTING SIDEWALK
	PROPOSED SIDEWALK
	EXISTING DITCH
	PROPOSED DITCH
	EXISTING CULVERT
	PROPOSED CULVERT
	EXISTING DRAINAGE DIRECTION
	PROPOSED DRAINAGE DIRECTION
	CONTOURS - MAJOR INTERVALS
	CONTOURS - MINOR INTERVALS
	EXISTING GROUND ELEVATION
	PROPOSED GROUND ELEVATION
	EXISTING ROAD ELEVATION
	PROPOSED ROAD ELEVATION
	EXISTING SLOPE
	PROPOSED SLOPE
	ASPHALT SURFACE
	GRAVEL SURFACE

MISCELLANEOUS:

	EXISTING FENCE LINE
	PROPOSED FENCE LINE
	EXISTING PROPANE LINE
	PROPOSED PROPANE LINE
	EXISTING HYDRO LINE
	PROPOSED HYDRO LINE
	EXISTING GAS LINE
	EXISTING MTS LINE
	EXISTING BUILDING
	PROPOSED BUILDING
	LEGAL/LOT LINE
	RAILWAY LINE
	MATCH LINE
	EXISTING HYDRO POLE
	PROPOSED HYDRO POLE
	WATER HOLDING TANK
	SEPTIC TANK
	SEWAGE HOLDING TANK
	SURVEY BAR
	SURVEY MONUMENT/BENCHMARK
	EXISTING VEGETATION
	PROPOSED VEGETATION
	DOOR CONSTRUCTION TYPE
	WALL CONSTRUCTION TYPE
	WELDING SYMBOL
	EASEMENT
	NORTH ARROW

ABBREVIATIONS:

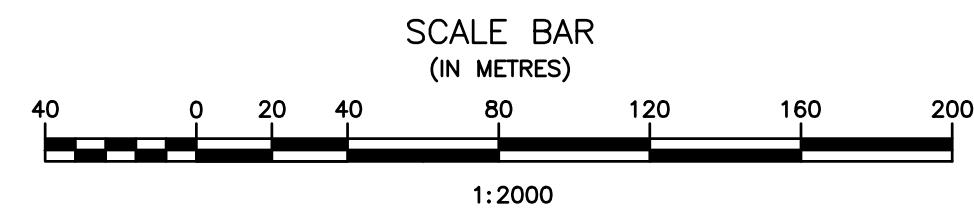
AT	AIR CONDITIONING	E	EAST	JCT	JUNCTION	RAD	RADIUS
ALUM	ALUMINUM	EC	END OF CURVE	JP	JOCKEY PUMP	RD	ROAD
ASPH	ASPHALT	ELEV	ELEVATION	LAB	LABORATORY	REV	REVISION
AVE	AVENUE	ELEC	ELECTRICAL	LAM	LAMINATE	ROW	RIGHT OF WAY
AVG	AVERAGE	EP	EDGE OF PAVEMENT	LAT	LATITUDE	RM	ROOM
BD	BOTTOM OF DITCH	ER	EDGE OF ROAD	LDS	LAND DRAINAGE SEWER	S	SOUTH
BLDG	BUILDING	E/W	EACHWAY	LFS	LEVEL FLOAT SWITCH	SCH	SCHEDULE
BLVD	BOULEVARD	EXT	EXTERIOR	LONG	LONGITUDE	SECT	SECTION
BM	BENCHMARK	FAX	FAX MACHINE STAND	LPS	LOW PRESSURE SEWER	SHT	SHEET
BOT	BOTTOM	FD	FLOOR DRAIN	LWL	LOW WATER LEVEL	SIB	STEEL IRON BAR
BP	BACKWASH PUMP	F/F	FACE TO FACE	m	METRE	SPEC	SPECIFICATION
B/W	BOTHWAYS	FH	FIRE HYDRANT	MAX	MAXIMUM	SQ	SQUARE
CB	CATCH BASIN	FM	FORCEMAIN	MCC	MOTOR CONTROL CENTER	SSL	SEWER SERVICE LINE
CI	CAST IRON	FP	FIRE PUMP	MECH	MECHANICAL	ST	STREET
CHKD	CHECKED	FT	FOOT, FEET	MEMB	MEMBRANE	STD	STANDARD
CNR	CANADIAN NATIONAL RAILWAY	GA	GAUGE	MH	MANHOLE	SUSP	SUSPENDED
CO	CLEANOUT	GALV	GALVANIZED	MIN	MINIMUM	SW	SIDEWALK
COL	COLUMN	HA	HECTARE	mm	MILLIMETRE	TEL	TELEPHONE
CONC	CONCRETE	HB	HOSE BIBB	MON	MONUMENT	TEMP	TEMPORARY
CONST	CONSTRUCTION	HDPE	HIGH DENSITY POLYETHYLENE	N	NORTH	TP	TRUCKFILL PUMP
CONT	CONTINUOUS	HI	HEIGHT OF INSTRUMENT	NAT	NATURAL	TYP	TYPICAL
COORD	COORDINATE	HPW	HIGH PRESSURE WATER LINE	NBC	NATIONAL BUILDING CODE	VERT	VERTICAL
CPR	CANADIAN PACIFIC RAILWAY	HORIZ	HORIZONTAL	NTS	NOT TO SCALE	VOL	VOLUME
C/W	COMPLETE WITH	HP	HYDRO POLE	NWL	NORMAL WATER LEVEL	US	ULTRASONIC TRANSDUCER
DCW	DOMESTIC COLD WATER	HR	HOUR	O/C	ON CENTRE	VAR	VARIES
DEG.	DEGREE	HVAC	HEATING, VENTILATING AND	O/D	OUTSIDE DIAMETER	VB	VAPOUR BARRIER
DHW	DOMESTIC HOT WATER	HW	AIR CONDITIONING	O/F	OUTSIDE FACE	VERT	VERTICAL
DIA.Ø	DIAMETER	HWL	HOT WATER TANK	O/H	OVER HEAD	VFD	VARIABLE FREQUENCY DRIVE
DIM	DIMENSION	ID	HIGH WATER LEVEL	OD	OUTSIDE DIAMETER	W	WEST
DIST	DISTANCE	IL	ICE LEVEL	ORIG	ORIGINAL	W/O	WITHOUT
DN	DOWN	INCL	INSIDE DIAMETER	OWSJ	OPEN WEB STEEL JOIST	WL	WATER LEVEL
DP	DUTY PUMP	INT	INCLUDE	PLYWD	PLYWOOD	WM	WATERMAIN
DR	DRIVE	INV	INTERIOR	PROP	PROPERTY	WSL	WATER SERVICE LINE
DWG	DRAWING		INVERT	PS	PRESSURE SEWER	WWS	WASTEWATER SEWER
				PVC	POLYVINYL CHLORIDE	WT	WEIGHT

NOTE:

DECIMALIZED NUMBERS INDICATE METRES.
WHOLE NUMBERS INDICATE MILLIMETRES.

A	A - DETAIL NUMBER
B	B - PLAN WHERE DETAIL EXPANDED
C	C - PLAN WHERE DETAIL ORIGINATES

A	A
C	B



LOCATION PLAN
SCALE = 1:2000



PROJECT BENCHMARKS			
BENCHMARK	NORTHING	EASTING	ELEVATION
FH 1	5513590.985	512841.241	388.655
FH 2	5513493.723	512727.537	387.420
FH 3	5513349.571	512878.934	377.145

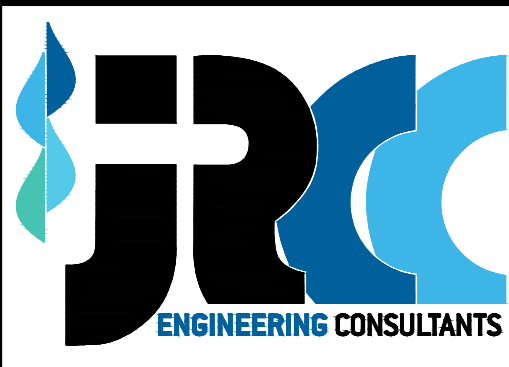
B.M. EL.

SEE TABLE ABOVE

LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.

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CODE:

D-536.02

DESIGNED BY:

MF

DRAWN BY:

JW

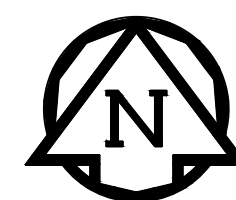
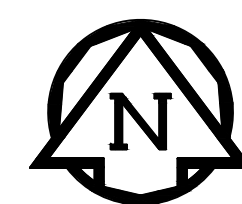
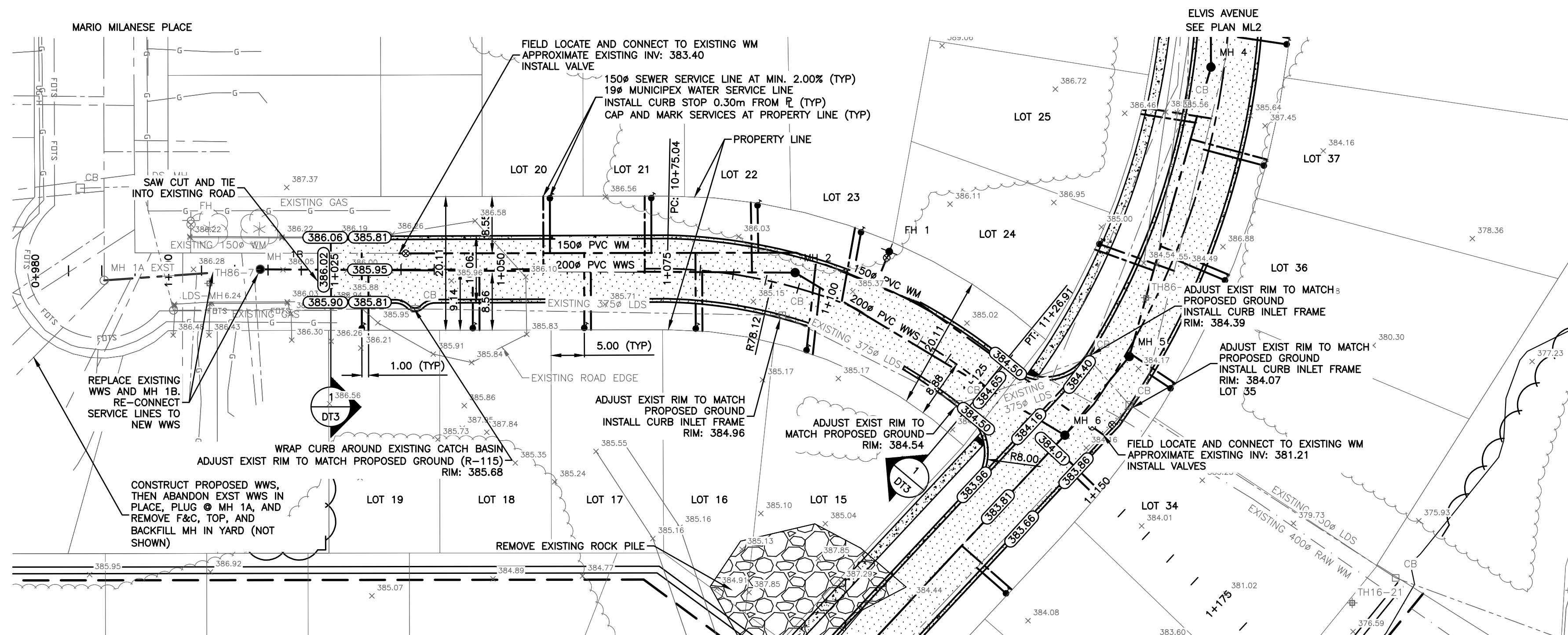
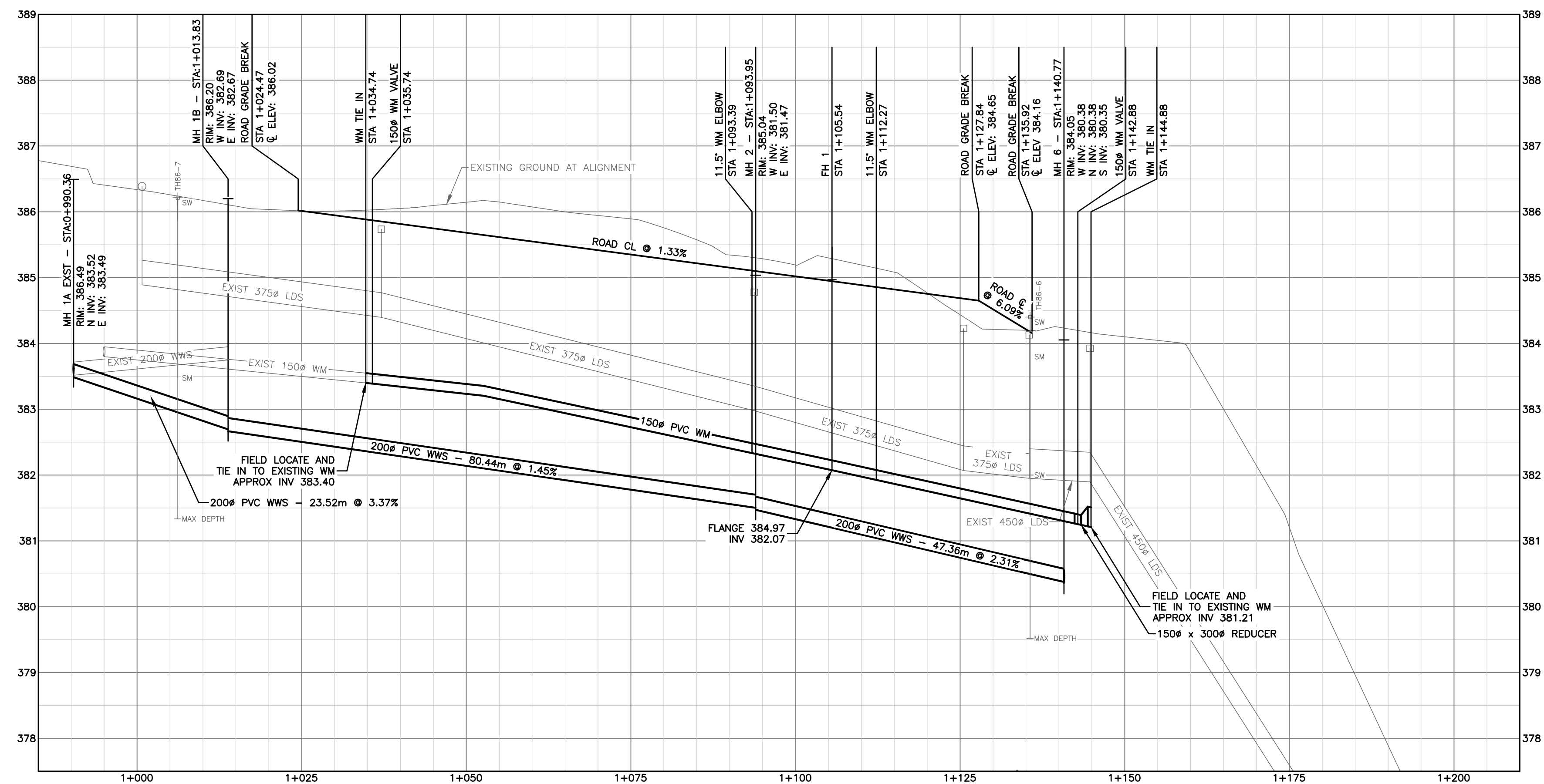
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SB

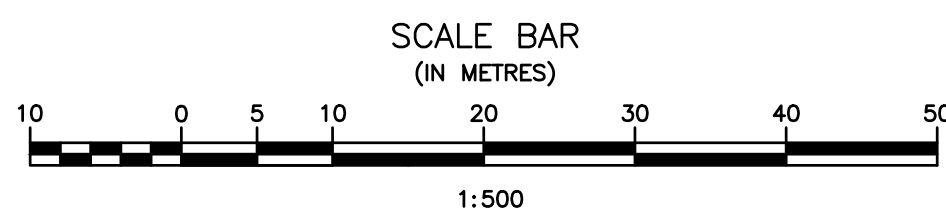
PROJECT:
CITY OF DRYDEN
MARIO MILANESE SUBDIVISION STAGE 3

TITLE:
DRAWING LEGEND, ABBREVIATIONS, AND
LOCATION PLAN

SCALE: 1:2000 DATE: 24/04/01 PLAN: G11 SHEET: 1 of 17



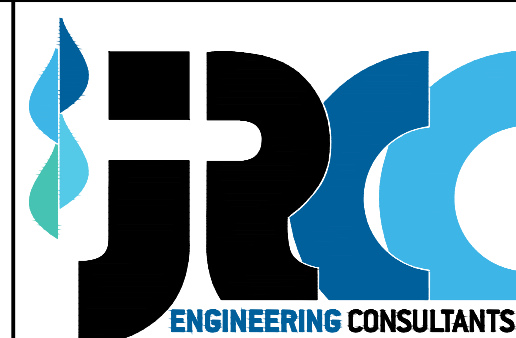
- COMPLETE ALL WORKS IN ACCORDANCE WITH THE CITY OF THUNDER BAY ENGINEERING AND DEVELOPMENT STANDARDS AS WELL AS THE ONTARIO PROVINCIAL STANDARDS. THUNDER BAY STANDARDS TO TAKE PRECEDENCE.
- FIELD LOCATE ALL EXISTING SERVICE LINES, MAINLINES, AND UTILITIES PRIOR TO CONSTRUCTION.
- MAINTAIN EXISTING UTILITY LOCATIONS DURING CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH AFFECTED PROPERTY OWNERS AND MINIMIZE DISRUPTION TO DRIVEWAY ACCESS. MAINTAIN MIN. 2.60m COVER FOR ALL PIPING UNLESS OTHERWISE NOTED.
- MAINTAIN MIN. 3.00m COVER FOR PIPING BENEATH EXISTING/FUTURE ROADWAYS AND PARKING STALLS.
- BOX INSULATION TO BE USED WHERE MINIMUM COVER CANNOT BE ACHIEVED.
- MAINTAIN MIN. 4.00m SEPARATION BETWEEN WATER AND SEWER PIPING AT CROSSINGS, WITH THE WATER PIPING ABOVE THE SEWER.
- CLEAR AND GRUB ALL TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED AS DIRECTED BY ENGINEER.
- RESTORE ALL EXISTING ROADWAYS AFFECTED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. SUPPLY ADDITIONAL GRANULAR AND ASPHALT MATERIAL AS REQUIRED.
- INSTALL TEMPORARY SILT FENCING IN ALL DRAINAGE OUTLETS DIRECTLY AFFECTED BY CONSTRUCTION WORKS.
- PROPOSED GROUND ELEVATIONS DENOTE FINISHED GRADE. ADJUST ELEVATIONS AS REQUIRED FOR TOPSOIL AND SOD PLACEMENT.
- CROSS ELEVATIONS NOTED ON PLANS ARE GUTTER ELEVATION. CURB/SLACK SIDEWALK RAMPING AS PER C.O.T.B SD R-120.
- ALLOW MINIMUM 14 DAYS ADVANCE NOTICE TO THE SITE FOR REGULAR INSPECTIONS OF THE WORK.
- REFER TO PLAN G01 FOR TEST HOLE LOCATIONS AND INFORMATION.
- ALIGNMENT FOLLOWS PROPOSED ROAD CENTRELINE. ROAD CENTRELINE DEVIATES FROM RIGHT OF WAY CENTRELINE IF



						B.M. EL.
						SEE PLAN G11
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No.	REVISIONS		DATE	INITIALS		

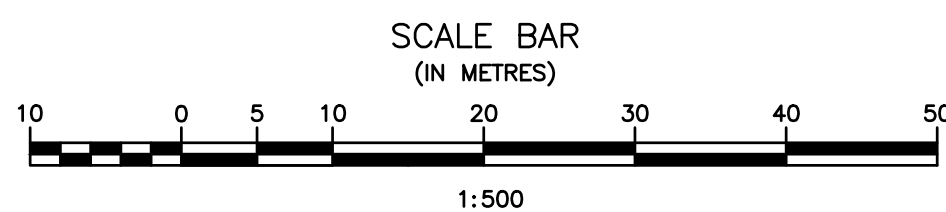
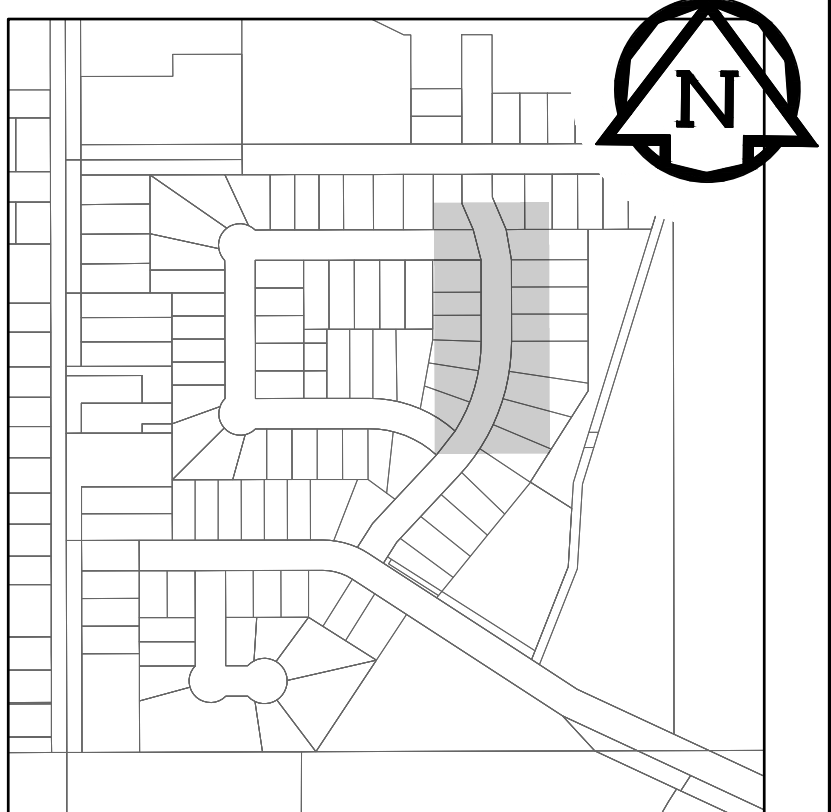
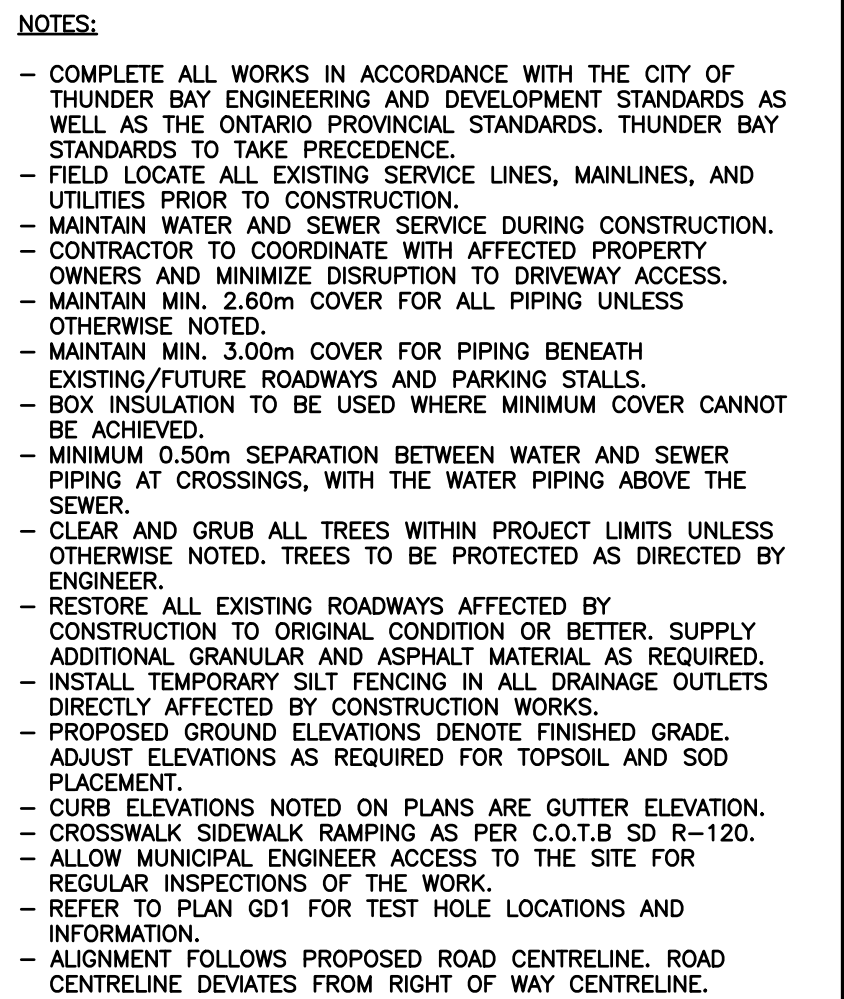
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CODE: D-536.02 DESIGNED BY: MF DRAWN BY: JW REVIEWED BY: SR	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3			
	TITLE: MARIO MILANESE PLACE PLAN AND PROFILE STA 1+000.00 TO STA 1+155.00			
	SCALE:	1:500	DATE:	24/04/01
	PLAN:	MI 1	SHEET:	2 of 17

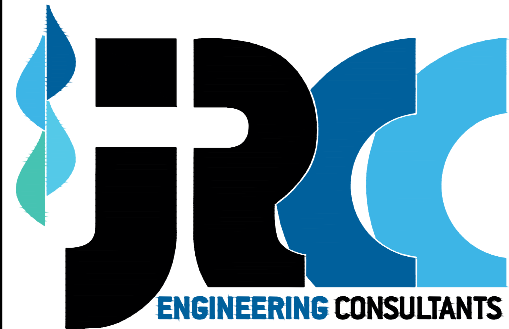


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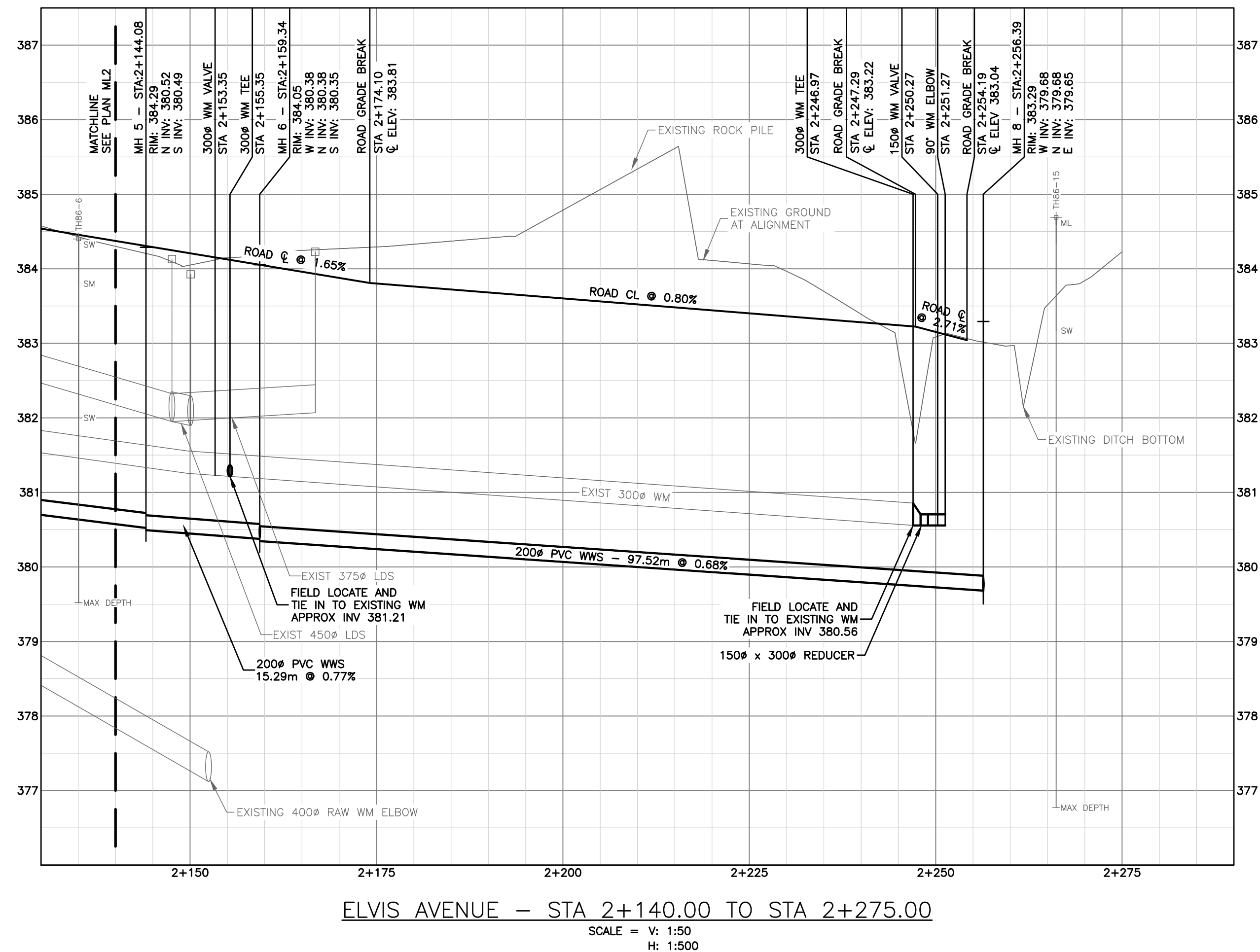
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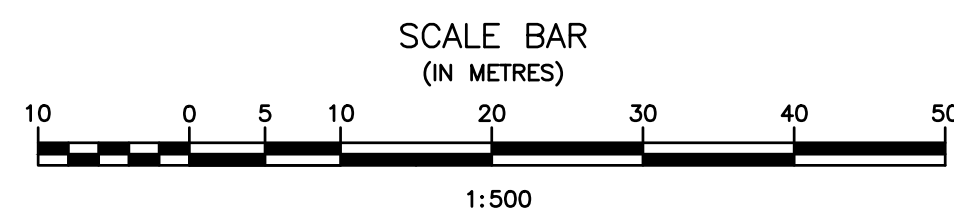
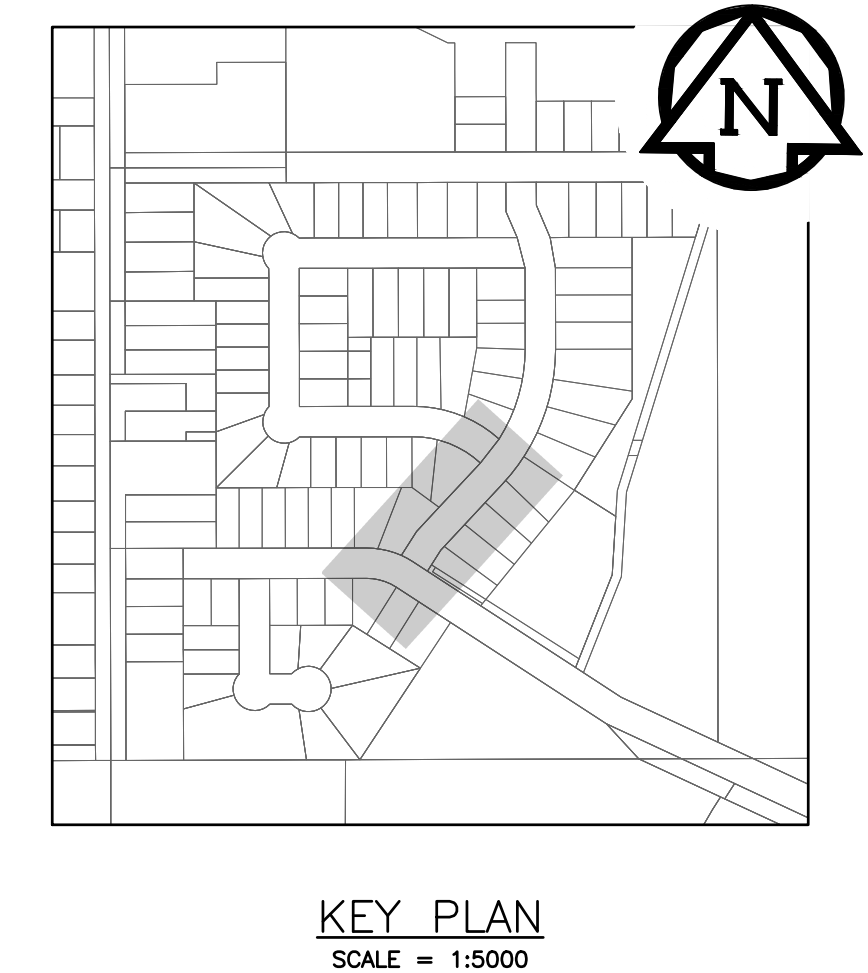
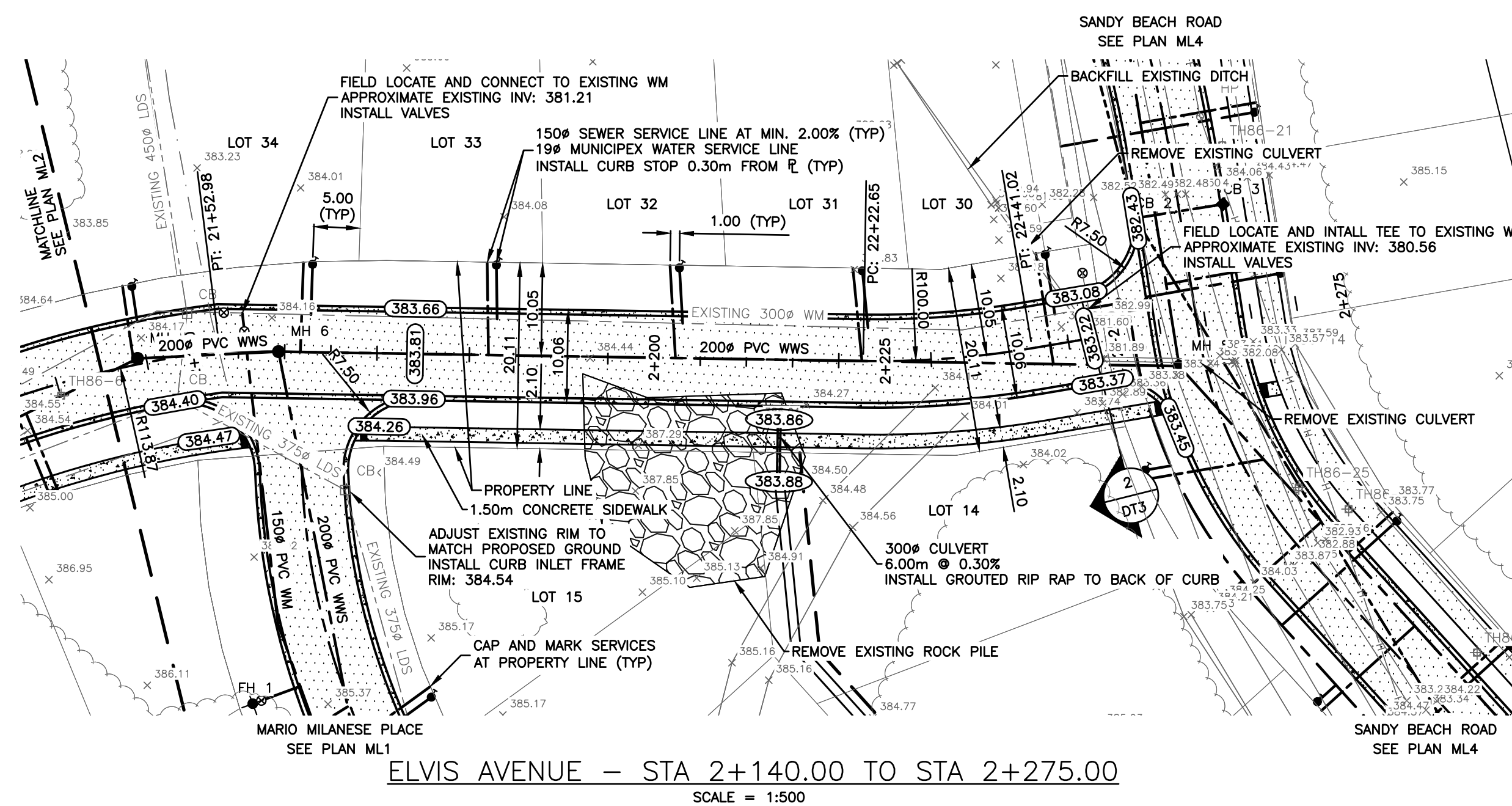


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CODE:	PROJECT:				
D-536.02	CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3				
DESIGNED BY:	TITLE:				
MF	ELVIS AVENUE PLAN AND PROFILE				
DRAWN BY:	STA 2+000.00 TO STA 2+140.00				
JW					
REVIEWED BY:	SCALE:	DATE:	PLAN:	SHEET:	
SB	1:500	24/04/01	ML2	3 of 17	



- COMPLETE ALL WORKS IN DEVELOPMENT WITH THE CITY OF THUNDER BAY ENGINEERING AND ACCORDMENT STANDARDS AS WELL AS THE ONTARIO PROVINCIAL STANDARDS. THUNDER BAY STANDARDS TO TAKE PRECEDENCE.
- FIELD LOCATE ALL EXISTING SERVICE LINES, MAINLINES, AND UTILITIES PRIOR TO CONSTRUCTION.
- MAINTAIN WATER AND SEWER SERVICE DURING CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH AFFECTED PROPERTY OWNERS AND MINIMIZE DISRUPTION TO DRIVEWAY ACCESS.
- MAINTAIN MIN. 2.60m COVER FOR ALL PIPING UNLESS OTHERWISE NOTED.
- MAINTAIN MIN. 3.00m COVER FOR PIPING BENEATH EXISTING/FUTURE ROADWAYS AND PARKING STALLS.
- BUS INSULATION TO BE USED WHERE MINIMUM COVER CANNOT BE ACHIEVED.
- MINIMUM 0.50m SEPARATION BETWEEN WATER AND SEWER PIPING AT CROSSINGS, WITH THE WATER PIPING ABOVE THE SEWER.
- CUT AND GRUB ALL TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED AS DIRECTED BY ENGINEER.
- RESTORE ALL EXISTING ROADWAYS AFFECTED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. SUPPLY ADDITIONAL GRANULAR AND ASPHALT MATERIAL AS REQUIRED.
- INSTALL TEMPORARY SILT FENCING IN ALL DRAINAGE OUTFALLS DIRECTLY AFFECTED BY CONSTRUCTION WORKS.
- CUTOFFS GROUNDS TO BE FINISHED TO PROPOSED FINISHED GRADE. ADJUST ELEVATIONS AS REQUIRED FOR TOPSOIL AND SOD PLACEMENT.
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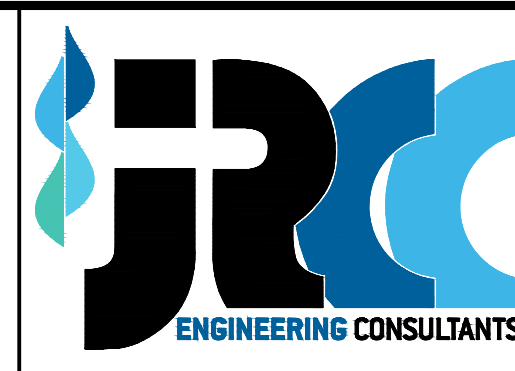
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ENGINEER'S SEAL

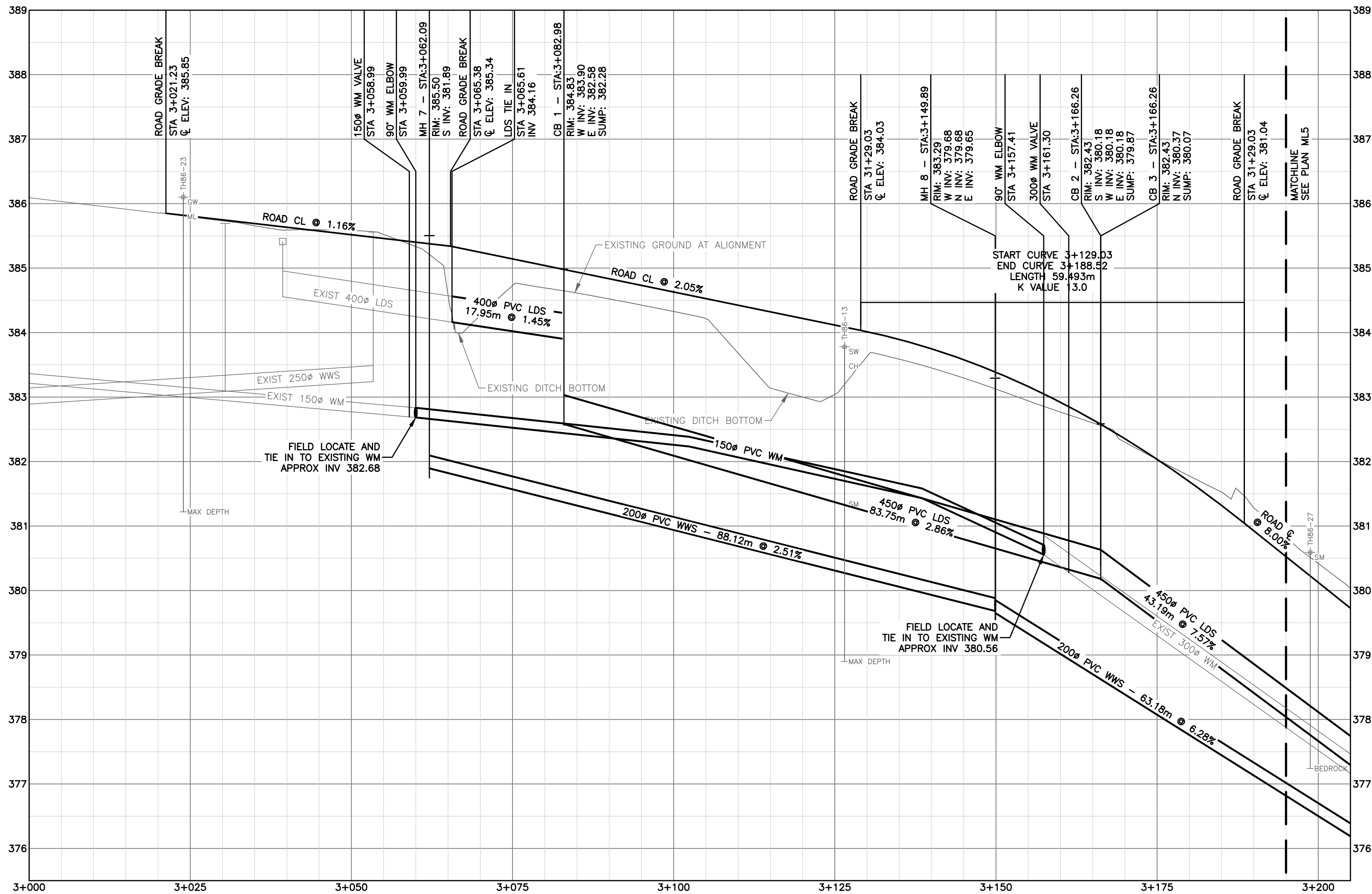
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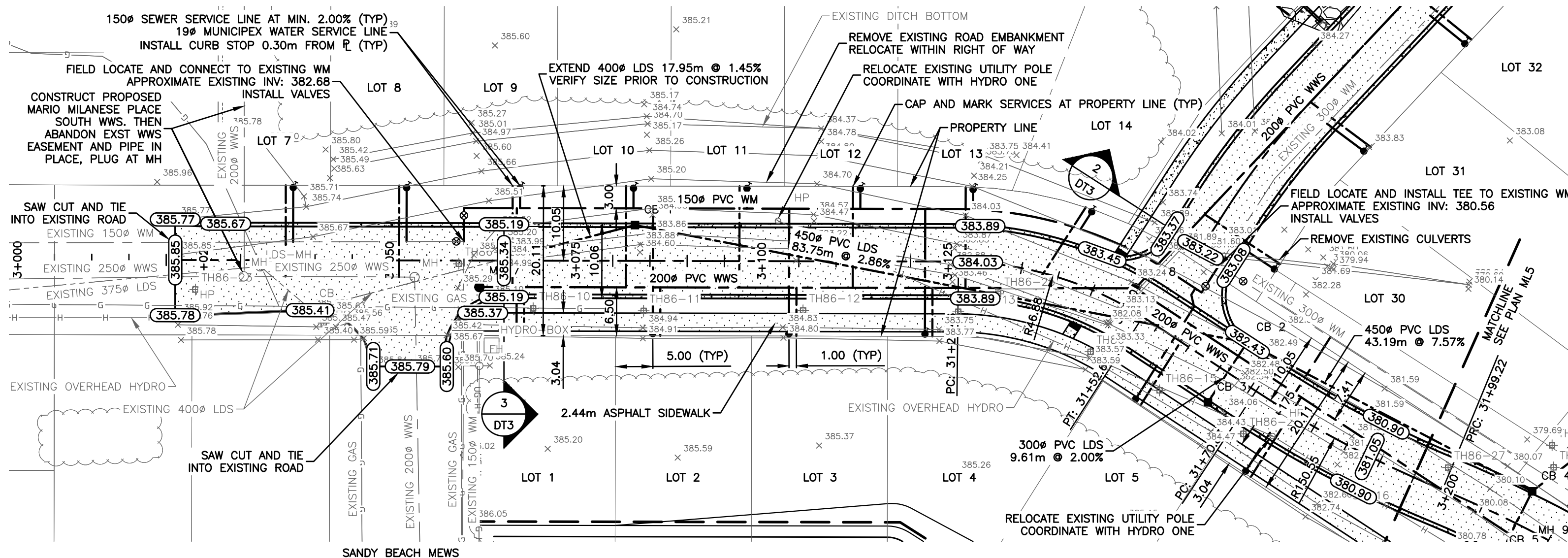
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CODE:	PROJECT:			
D-536.02	CITY OF DRYDEN			
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MF	TITLE:			
DRAWN BY:	ELVIS AVENUE			
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REVIEWED BY:	STA 2+140.00 TO STA 2+275.00			
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			PLAN:	ML3
				SHEET: 4 of 17



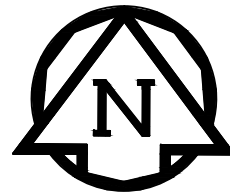
SANDY BEACH ROAD - STA 3+000.00 TO STA 3+195.00

SCALE = V: 1:50
H: 1:500



SANDY BEACH ROAD - STA 3+000.00 TO STA 3+195.00

SCALE = 1:500



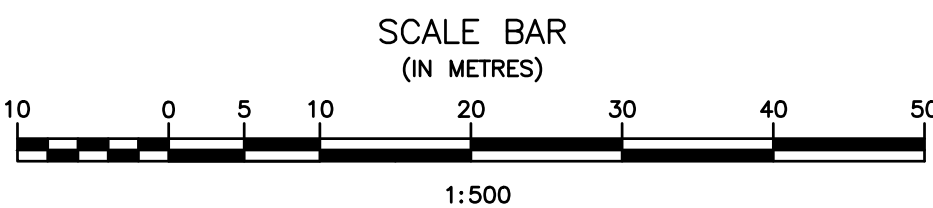
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- ALLOW MUNICIPAL ENGINEER ACCESS TO THE SITE FOR REGULAR INSPECTIONS OF THE WORK.
- REFER TO PLAN GD1 FOR TEST HOLE LOCATIONS AND INFORMATION.
- ALIGNMENT FOLLOWS PROPOSED ROAD CENTRELINE. ROAD CENTRELINE DEVIATES FROM RIGHT OF WAY CENTRELINE.



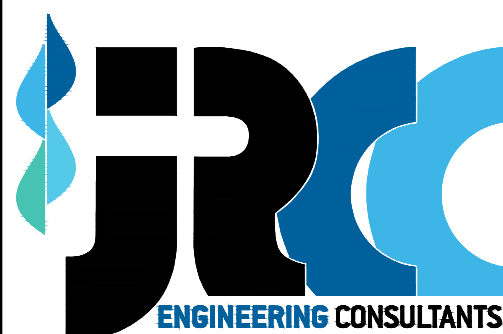
KEY PLAN

SCALE = 1:5000



				B.M. EL.
				SEE PLAN G11
				LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.
No.	REVISIONS	DATE	INITIALS	
1	ISSUED FOR 99% REVIEW	DEC 2023	JW	

ENGINEER'S SEAL
PRELIMINARY

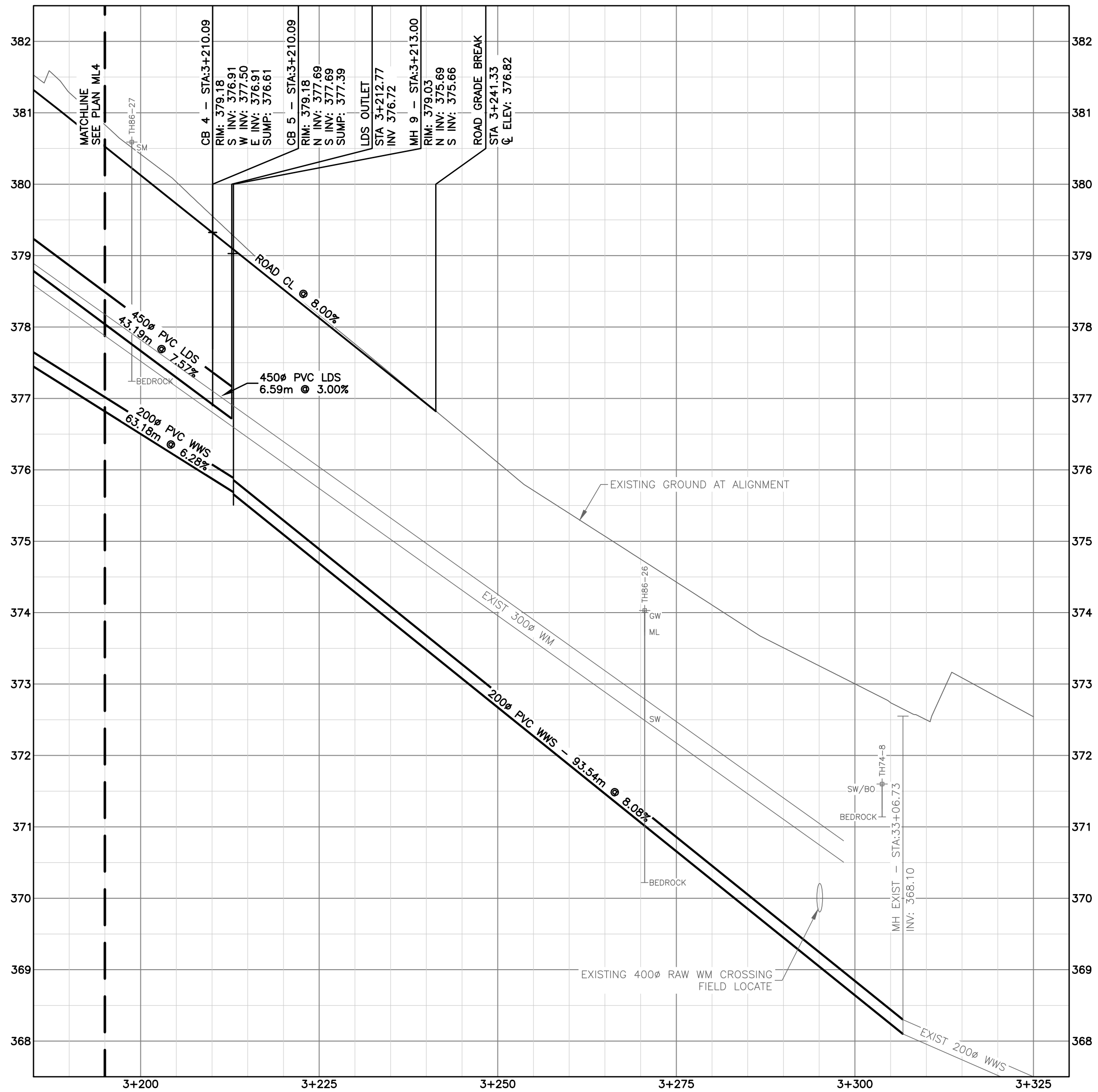


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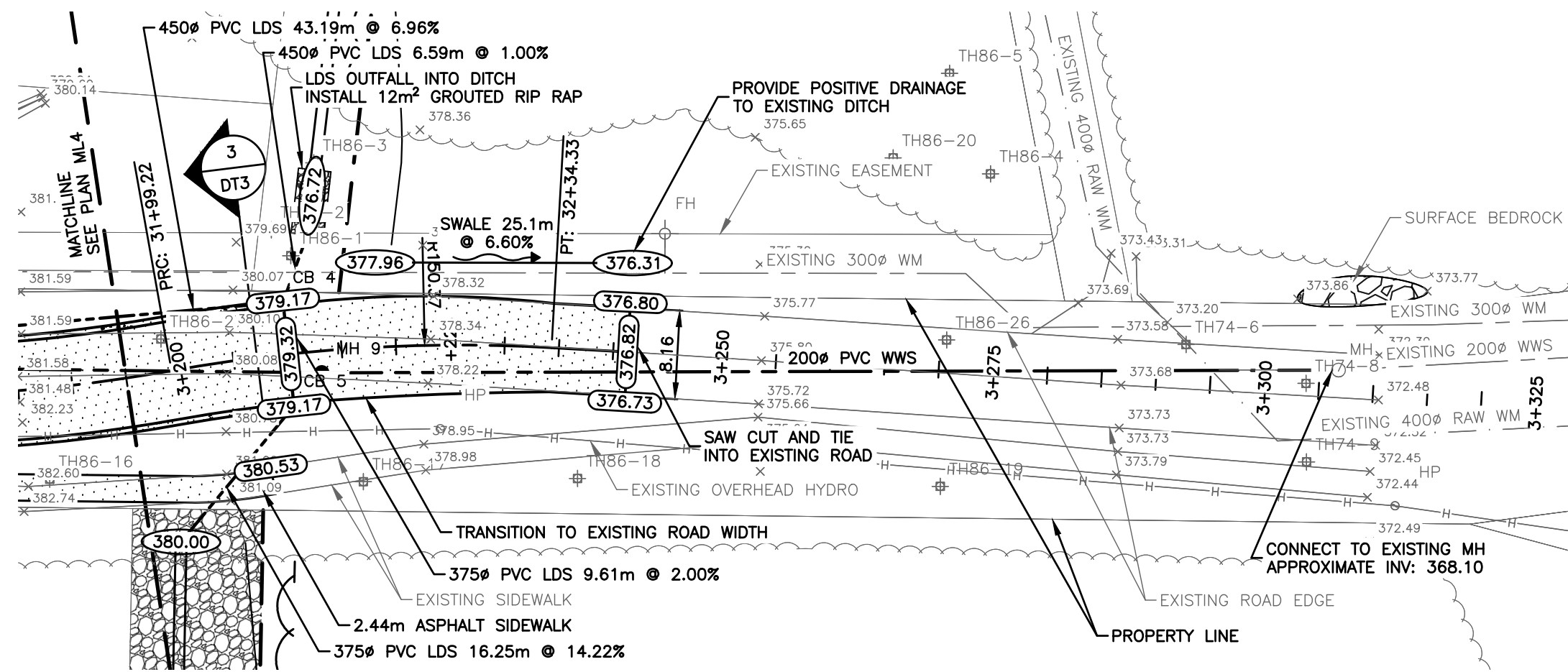
ENGINEERING EXCELLENCE SINCE 1981

CODE: D-536.02	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3
DESIGNED BY: MF	TITLE: SANDY BEACH ROAD PLAN AND PROFILE
DRAWN BY: JW	STA 3+000.00 TO STA 3+195.00
REVIEWED BY: SB	SCALE: 1:500 DATE: 24/04/01 PLAN: ML4 SHEET: 5 of 17



SANDY BEACH ROAD – STA 3+195.00 TO STA 3+325.00

SCALE = V: 1:50
H: 1:500



SANDY BEACH ROAD – STA 3+195.00 TO STA 3+325.00

SCALE = 1:500

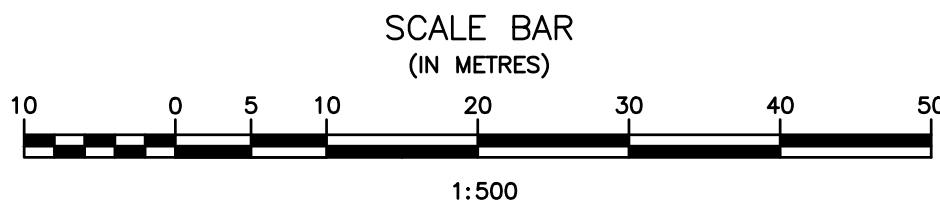
NOTES:

- COMPLETE ALL WORKS IN ACCORDANCE WITH THE CITY OF THUNDER BAY ENGINEERING AND DEVELOPMENT STANDARDS AS WELL AS THE ONTARIO PROVINCIAL STANDARDS. THUNDER BAY STANDARDS TO TAKE PRECEDENCE.
- FIELD LOCATE ALL EXISTING SERVICE LINES, MAINLINES, AND UTILITIES PRIOR TO CONSTRUCTION.
- MAINTAIN WATER AND SEWER SERVICE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH AFFECTED PROPERTY OWNERS AND MINIMIZE DISRUPTION TO DRIVEWAY ACCESS.
- MAINTAIN MIN. 2.60m COVER FOR ALL PIPING UNLESS OTHERWISE NOTED.
- MAINTAIN MIN. 3.00m COVER FOR PIPING BENEATH EXISTING/FUTURE ROADWAYS AND PARKING STALLS.
- BOX INSULATION TO BE USED WHERE MINIMUM COVER CANNOT BE ACHIEVED.
- MINIMUM 0.50m SEPARATION BETWEEN WATER AND SEWER PIPING AT CROSSINGS, WITH THE WATER PIPING ABOVE THE SEWER.
- CLEAR AND GRUB ALL TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED AS DIRECTED BY ENGINEER.
- RESTORE ALL EXISTING ROADWAYS AFFECTED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. SUPPLY ADDITIONAL GRANULAR AND ASPHALT MATERIAL AS REQUIRED.
- INSTALL TEMPORARY SILT FENCING IN ALL DRAINAGE OUTLETS DIRECTLY AFFECTED BY CONSTRUCTION WORKS.
- PROPOSED GROUND ELEVATIONS DENOTE FINISHED GRADE. ADJUST ELEVATIONS AS REQUIRED FOR TOPSOIL AND SOD PLACEMENT.
- CURB ELEVATIONS NOTED ON PLANS ARE GUTTER ELEVATION.
- CROSSWALK SIDEWALK RAMPING AS PER C.O.T.B. SD R-120.
- ALLOW MUNICIPAL ENGINEER ACCESS TO THE SITE FOR REGULAR INSPECTIONS OF THE WORK.
- REFER TO PLAN GD1 FOR TEST HOLE LOCATIONS AND INFORMATION.
- ALIGNMENT FOLLOWS PROPOSED ROAD CENTRELINE. ROAD CENTRELINE DEVIATES FROM RIGHT OF WAY CENTRELINE.



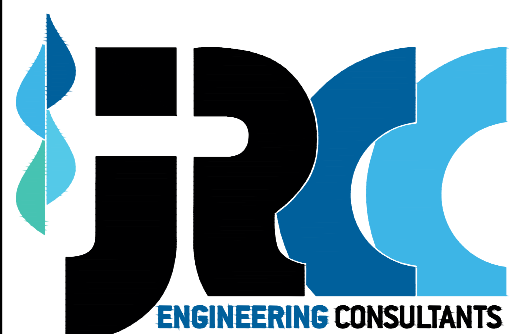
KEY PLAN

SCALE = 1:5000



No.	REVISIONS	DATE	INITIALS	B.M. EL.
				SEE PLAN G11
1	ISSUED FOR 99% REVIEW	DEC 2023	JW	LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.

ENGINEER'S SEAL
PRELIMINARY

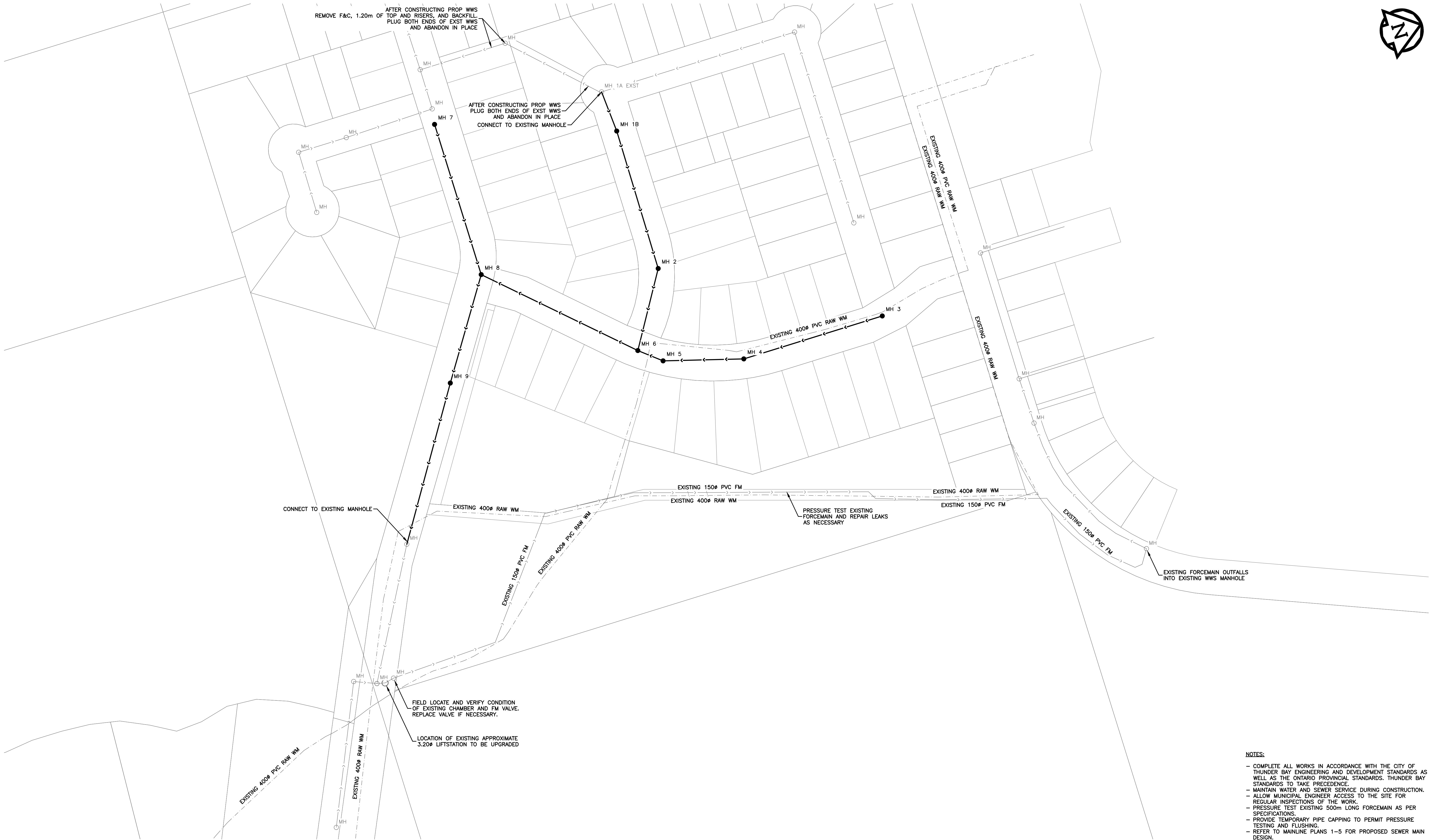
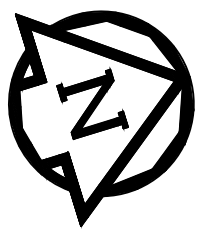


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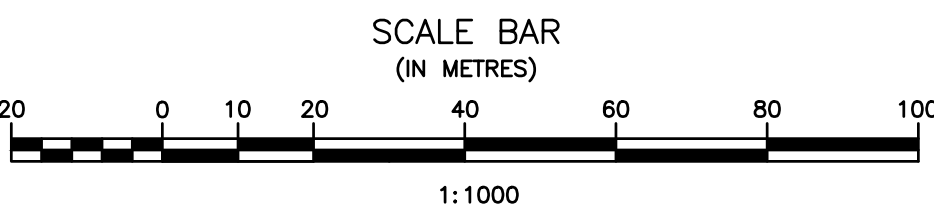
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ENGINEERING EXCELLENCE SINCE 1981

CODE: D-536.02	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3
DESIGNED BY: MF	TITLE: SANDY BEACH ROAD PLAN AND PROFILE STA 3+195.00 TO STA 3+325.00
DRAWN BY: JW	SCALE: 1:500
REVIEWED BY: SB	DATE: 24/04/01
	PLAN: ML5
	SHEET: 6 of 17



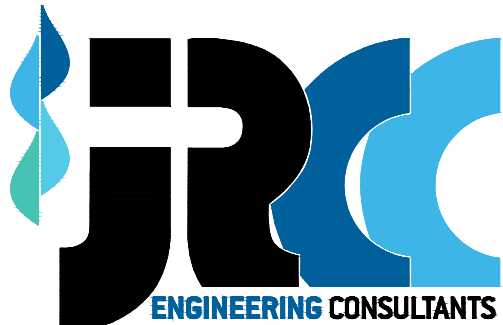
- NOTES:
- COMPLETE ALL WORKS IN ACCORDANCE WITH THE CITY OF THUNDER BAY ENGINEERING AND DEVELOPMENT STANDARDS AS WELL AS THE ONTARIO PROVINCIAL STANDARDS. THUNDER BAY STANDARDS TO TAKE PRECEDENCE.
 - MAINTAIN WATER AND SEWER SERVICE DURING CONSTRUCTION.
 - ALLOW MUNICIPAL ENGINEER ACCESS TO THE SITE FOR REGULAR INSPECTIONS OF THE WORK.
 - PRESSURE TEST EXISTING 500m LONG FORCEMAIN AS PER SPECIFICATIONS.
 - PROVIDE TEMPORARY PIPE CAPPING TO PERMIT PRESSURE TESTING AND FLUSHING.
 - REFER TO MAINLINE PLANS 1-5 FOR PROPOSED SEWER MAIN DESIGN.



				B.M. EL.
				SEE PLAN G11
				LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.
1	ISSUED FOR 99% REVIEW	DEC 2023	JW	
No.	REVISIONS	DATE	INITIALS	

ENGINEER'S SEAL

PRELIMINARY

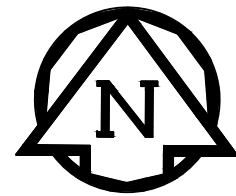
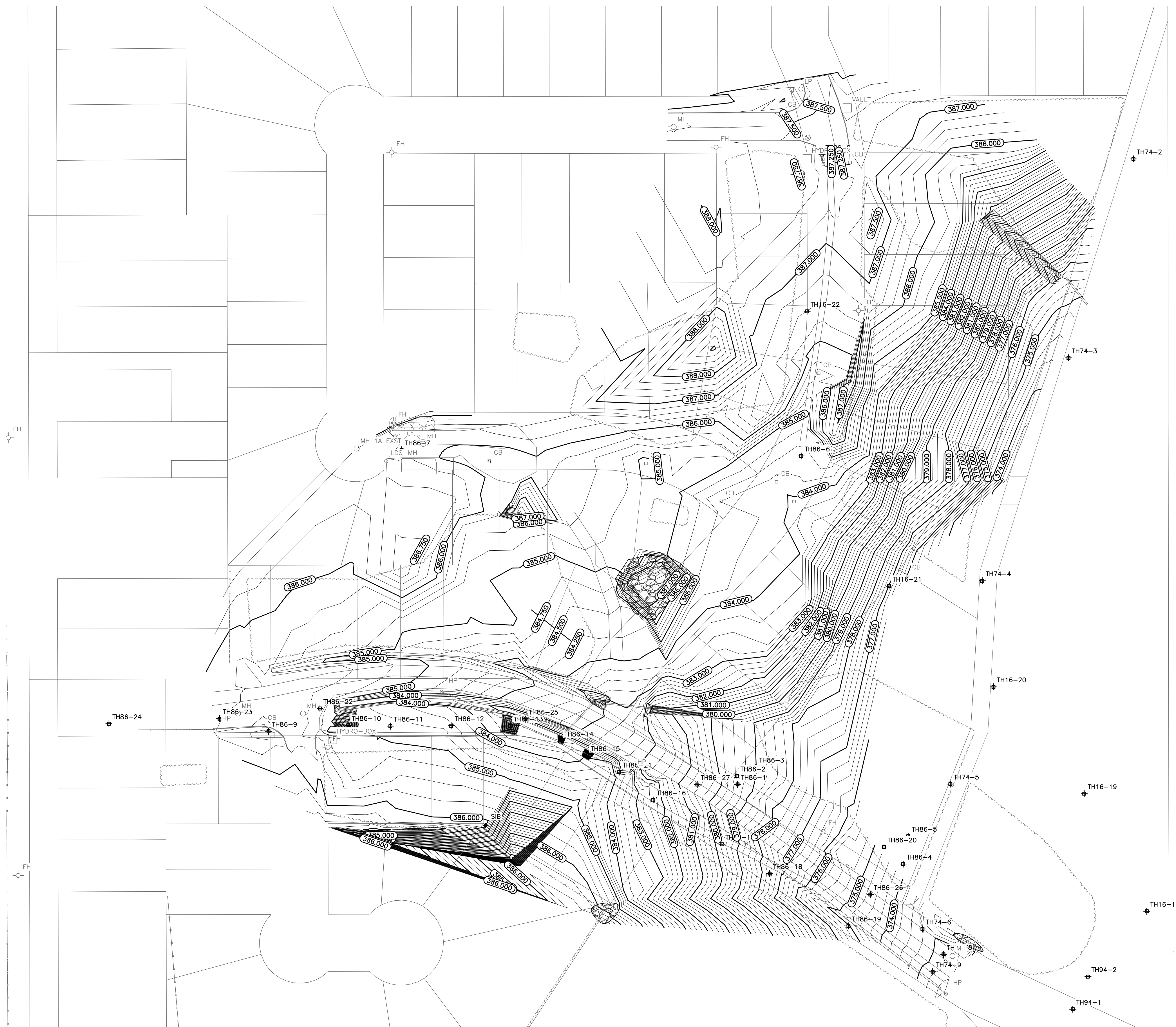


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ENGINEERING EXCELLENCE SINCE 1981

CODE: D-536.02	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3			
DESIGNED BY: MF	TITLE: LIFTSTATION PRECEDENTS AND EXISTING FORCEMAIN			
DRAWN BY: JW				
REVIEWED BY: SB				
SCALE: 1:1000	DATE: 24/04/01	PLAN: ML6	SHEET: 7 of 17	

Apr 01, 2024 - 2:12pm 0:000336 City of Dryden\336.02 Mario Milaneze Subdivision Stage 3\34 Drawings\Map\Design Plans - Mario Milaneze\Variation Plans\031 002.dwg



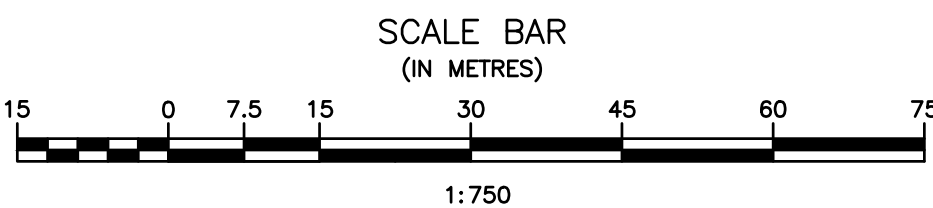
TESTHOLE LOG:
TEST HOLES FROM 1974 INTAKE LINE PROFILE
TH74-2 - ELEV. 381.8
-SAND TO 3.0m (MAX DEPTH DRILLED)
TH74-3 - ELEV. 373.6
-SAND TO 2.6m (MAX DEPTH DRILLED)
(WET/WATER AT 1.5m)
TH74-4 - ELEV. 372.8
-LOOSE SAND TO 1.8m (MAX DEPTH DRILLED)
(WET AND CAVING AT 0.6m)
TH74-5 - ELEV. 374.1
-SAND & BOULDERS TO 1.0m
-BEDROCK @ 1.0m
TH74-6 - ELEV. 372.9
-SAND & BOULDERS TO 2.0m
-BEDROCK @ 2.0m
TH74-8 - ELEV. 371.6
-SAND & BOULDERS TO 0.46m
-BEDROCK @ 0.46m
TH74-9 - ELEV. 371.6
-SAND & BOULDERS TO 0.9m
-BEDROCK @ 0.9m

MILANESE SUBDIVISION TEST HOLES (UMA-1986)
TH86-1 - ELEV. 378.47
-SAND TO 1.67m
-BEDROCK @ 1.67m
TH86-2 - ELEV. 378.53
-SAND TO 1.83m
-BEDROCK @ 1.83m
TH86-3 - ELEV. 379.17
-SAND WITH SILT TO 9.9m
-WATER LEVEL AT 5.8m
-BEDROCK @ 9.9m
TH86-4 - ELEV. 374.09
-SAND WITH SHOT ROCK TO 1.52m
-BEDROCK @ 1.52m
TH86-5 - ELEV. 373.85
-SAND TO 2.13m
-BEDROCK @ 2.13m
TH86-6 - ELEV. 384.4
-SAND TO 0.6m
-SILTY CLAY 0.6m TO 2.4m
-SAND 2.4m TO 4.88m (MAX DEPTH DRILLED)
TH86-7 - ELEV. 386.2
-SAND TO 2.74m
-SILTY SAND 2.74m TO 4.88m (MAX DEPTH DRILLED)
TH86-8 - ELEV. 387.2
-FINE SAND TO 2.7m
-WET SAND 2.7m TO 4.0m (MAX DEPTH DRILLED)
TH86-9 - ELEV. 385.53
-SAND TO 0.46m
-CLAY 0.46m TO 4.34m
-SILTY SAND 4.34m TO 4.88m (MAX DEPTH DRILLED)
TH86-10 - ELEV. 385.24
-CLAY TO 3.96m
-SAND 3.96m TO 4.88m (MAX DEPTH DRILLED)
TH86-11 - ELEV. 385.12
-SAND TO 0.30m
-CLAY 0.30m TO 3.96m
-SILT 3.96m TO 4.88m (MAX DEPTH DRILLED)
TH86-12 - ELEV. 384.73
-SAND TO 0.15m
-CLAY 0.15m TO 3.66m
-SAND 3.66m TO 4.88m (MAX DEPTH DRILLED)
TH86-13 - ELEV. 383.78
-SAND TO 0.30m
-CLAY 0.30m TO 2.44m
-SILT WITH SAND 2.44m TO 4.88m (MAX DEPTH DRILLED)
TH86-14 - ELEV. 384.12
-CLAY TO 1.83m
-SAND WITH SILT 1.83m TO 4.88m
-SAND 4.88m 6.40m (MAX DEPTH DRILLED)
TH86-15 - ELEV. 384.69
-SILT TO 1.52m
-SAND 1.52m TO 7.92m (MAX DEPTH DRILLED)

TH86-16 - ELEV. 382.09
-SAND TO 5.64m
-BEDROCK @ 5.64m
TH86-17 - ELEV. 378.95
-SAND TO 3.81m
-BEDROCK @ 3.81m
TH86-18 - ELEV. 378.93
-SAND TO 0.61m
-BEDROCK @ 0.61m
TH86-19 - ELEV. 375.07
-SAND TO 1.52m
-BEDROCK @ 1.52m
TH86-20 - ELEV. 373.82
-SAND TO 1.52m
-SAND WITH SILT AND CLAY 1.52m TO 2.29m
-SAND 2.29m TO 2.74m
-BEDROCK @ 2.74m
TH86-21 - ELEV. 380.56
-SILT TO 4.88m (MAX DEPTH DRILLED)
TH86-22 - ELEV. 380.56
-SAND TO 1.22m
-CLAY 1.22m TO 3.05m
-SILT 3.05m TO 4.88m (MAX DEPTH DRILLED)
TH86-23 - ELEV. 386.10
-GRANULAR TO 0.15m
-SILT 0.15m TO 4.88m (MAX DEPTH DRILLED)
TH86-24 - ELEV. 386.58
-GRANULAR TO 0.15m
-SAND 0.15m TO 0.21m
-CLAY 0.21m TO 1.83m
-SILT 1.83m TO 4.88m (MAX DEPTH DRILLED)
TH86-25 - ELEV. 384.80
-GRANULAR TO 0.15m
-CLAY 0.15m TO 2.44m
-SILT 2.44m TO 4.88m (MAX DEPTH DRILLED)
TH86-26 - ELEV. 374.03
-GRANULAR TO 0.15m
-SILT 0.15m TO 1.52m
-SAND 1.52m TO 3.81m
-BEDROCK @ 3.81m
TH86-27 - ELEV. 380.59
-SILTY SAND TO 3.35m
-BEDROCK @ 3.35m

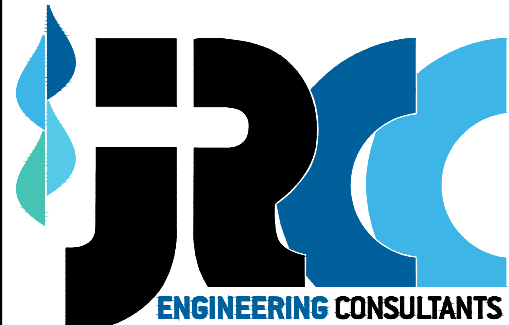
SANDY BEACH ROAD PUMPING STATION TEST HOLES (TROW 1994)
TH94-1 - ELEV. 370.4
-GRAVEL FILL (ROAD BED) TO 1.2m
-SAND MED GRAIN 1.2m TO 1.7m
-PEAT SOFT WET 1.7m TO 3.0m
-LAKE SEDIMENT, VERY SOFT 3.0m TO 4.1m
-SAND (COMPACT AT 4.9) 4.1m TO 6.3m
-BEDROCK @ 6.3m
TH94-2 - ELEV. 370.30
-SILTY SAND SOME CLAY TO 1.5m
-PEAT SOFT WET 1.5m TO 3.0m
-LAKE SEDIMENT, VERY SOFT 3.0m TO 3.5m
-SILTY SAND (SATURATED) 3.5m TO 4.6m
-SAND 4.6m TO 5.6m
-BEDROCK @ 5.6m

TEST HOLES FROM 2016 INTAKE LINE PROFILE
TH16-18 - ELEV. 371.9m
-TOPSOIL TO 0.2m
-SAND 0.2m TO 0.7m
-BEDROCK 0.7m TO 4.6m (MAX DEPTH DRILLED)
TH16-19 - ELEV. 370.9m
-TOPSOIL TO 0.2m
-SAND 0.2m TO 0.9m
-BEDROCK 0.9m TO 4.4m (MAX DEPTH DRILLED)
TH16-20 - ELEV. 373.8m
-TOPSOIL TO 0.2m
-SAND 0.2m TO 5.2m (MAX DEPTH DRILLED)
TH16-21 - ELEV. 377.0m
-TOPSOIL TO 0.2m
-SAND 0.2m TO 5.2m (MAX DEPTH DRILLED)
TH16-22 - ELEV. 386.7m
-TOPSOIL TO 0.2m
-SAND 0.2m TO 5.2m (MAX DEPTH DRILLED)



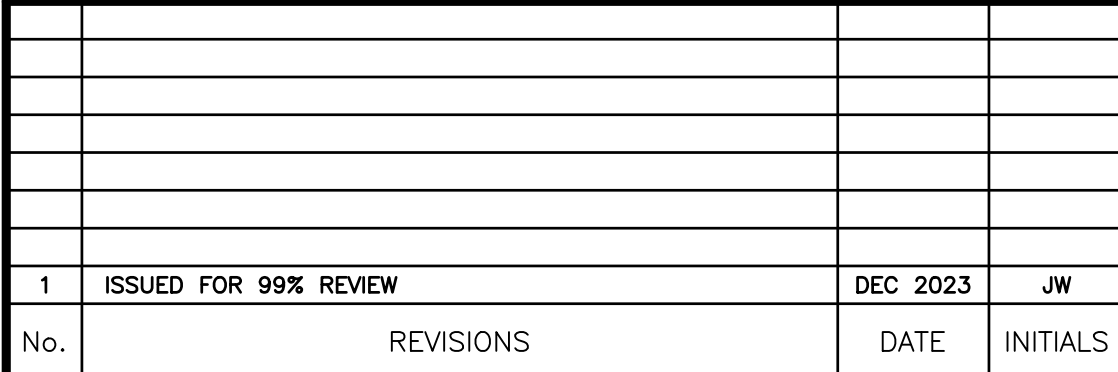
				B.M. EL.
				SEE PLAN G11
				LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.
1	ISSUED FOR 99% REVIEW	DEC 2023	JW	
No.	REVISIONS	DATE	INITIALS	

ENGINEER'S SEAL
PRELIMINARY



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CODE: D-536.02	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3
DESIGNED BY: MF	TITLE: EXISTING CONTOUR PLAN AND TEST HOLE INFORMATION
DRAWN BY: JW	
REVIEWED BY: SB	
SCALE: 1:750	DATE: 24/04/01
PLAN: GD1	SHEET: 8 of 17

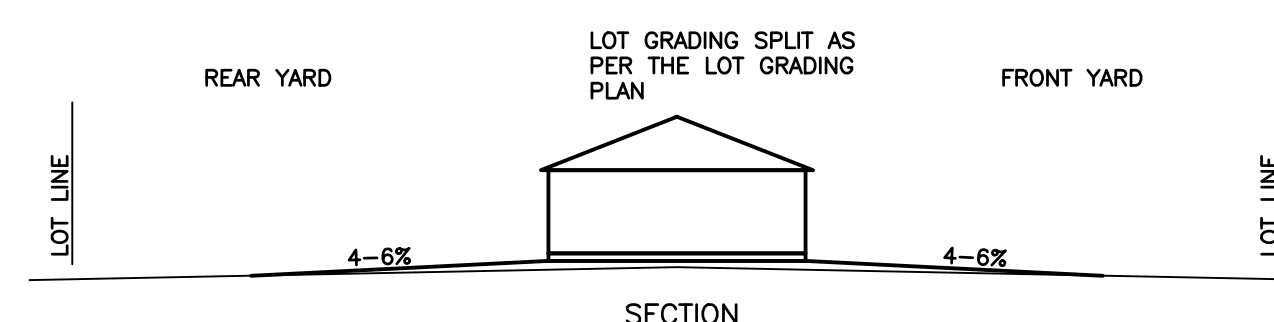
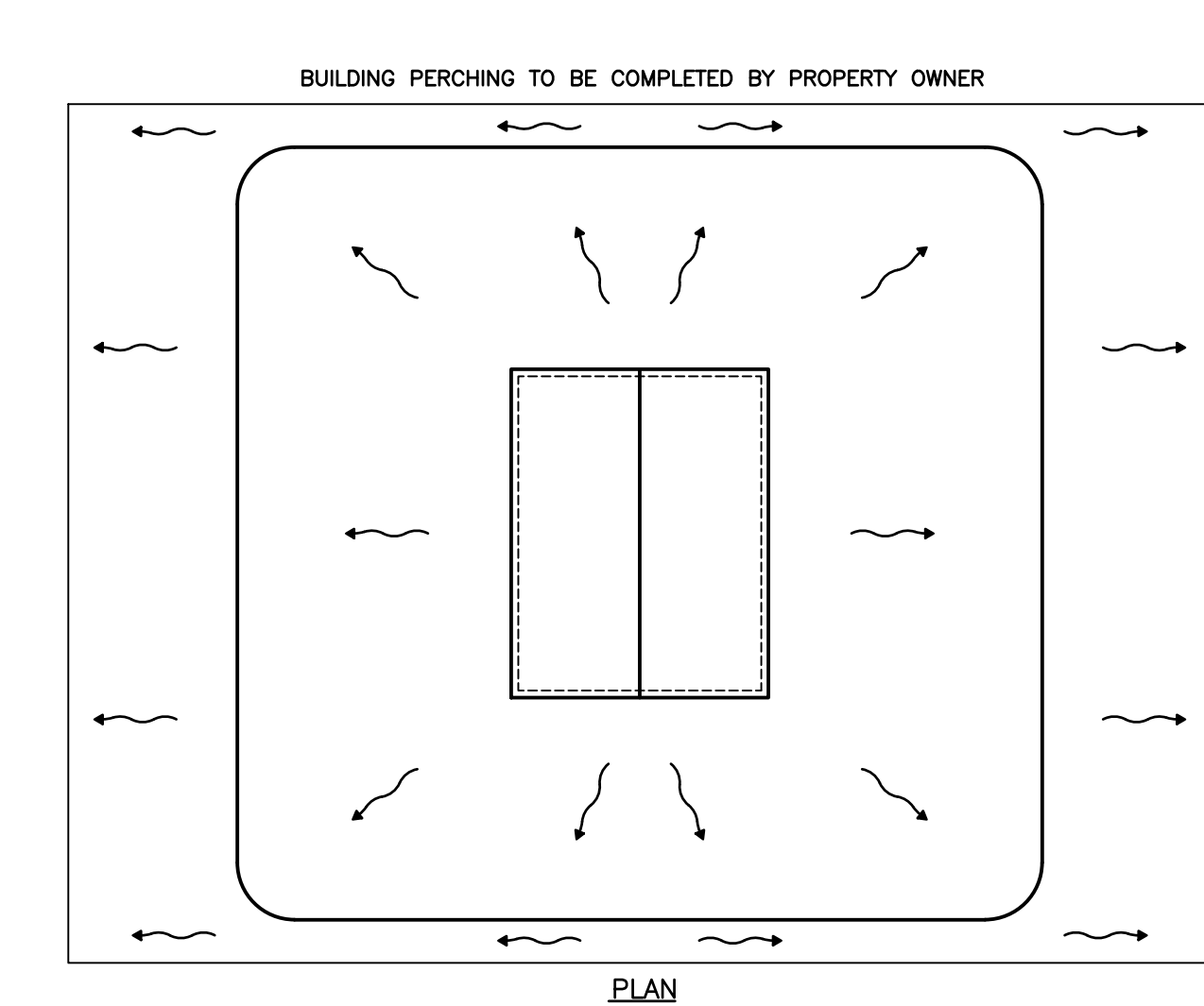


B.M. EL.	SEE PLAN G1
LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.	



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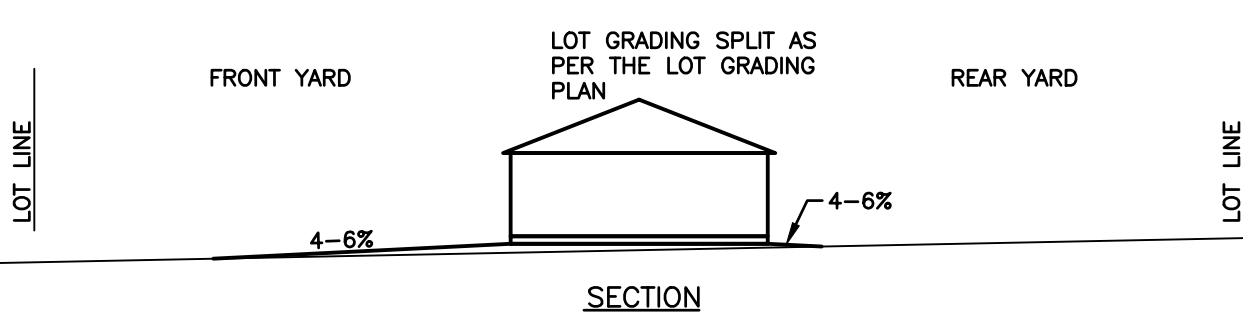
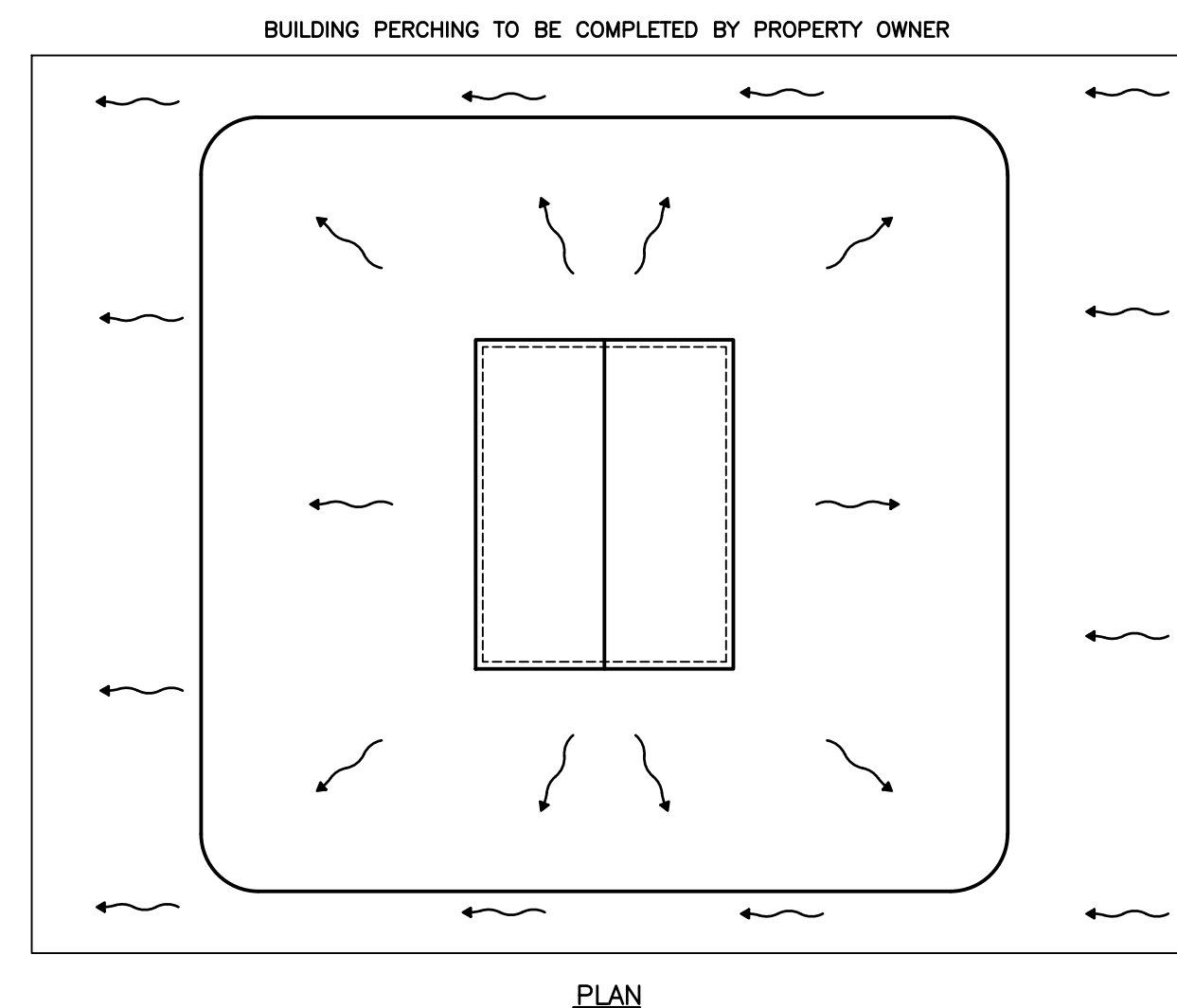
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DESIGNED BY: MF	TITLE: TREE CLEARING EXTENTS			
DRAWN BY: JW				
REVIEWED BY: SB	SCALE: 1:750	DATE: 24/04/01	PLAN: GD2	SHEET: 9 of 17



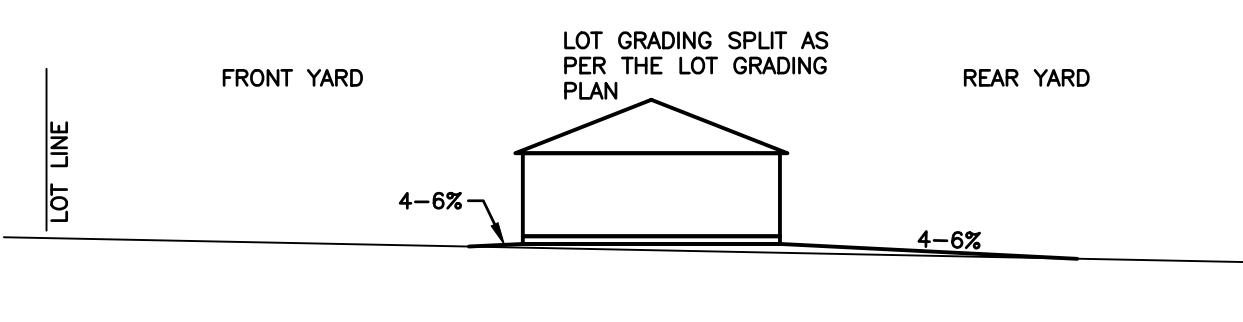
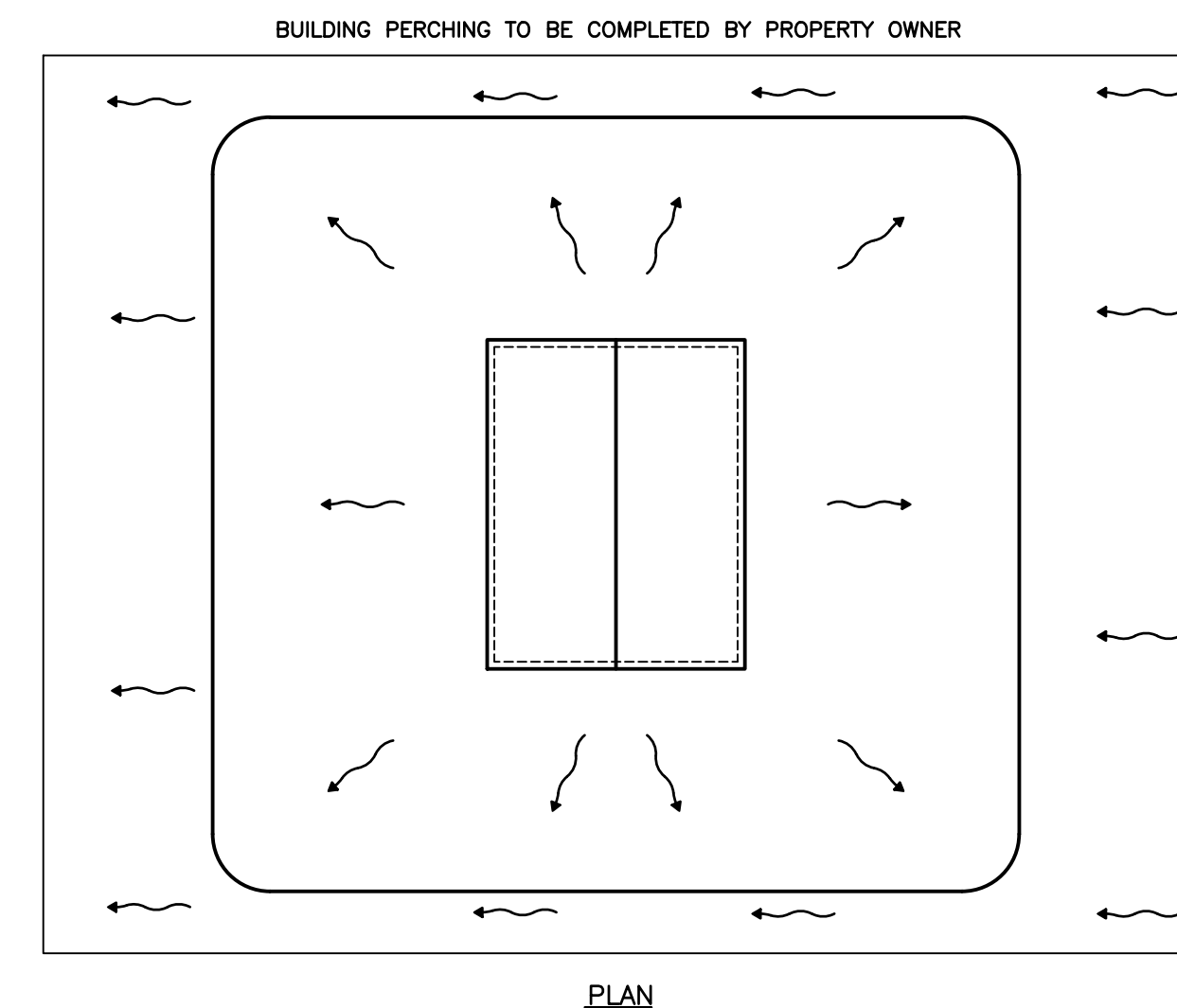
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SPLIT LOT DRAINAGE — HOUSE PERCHING

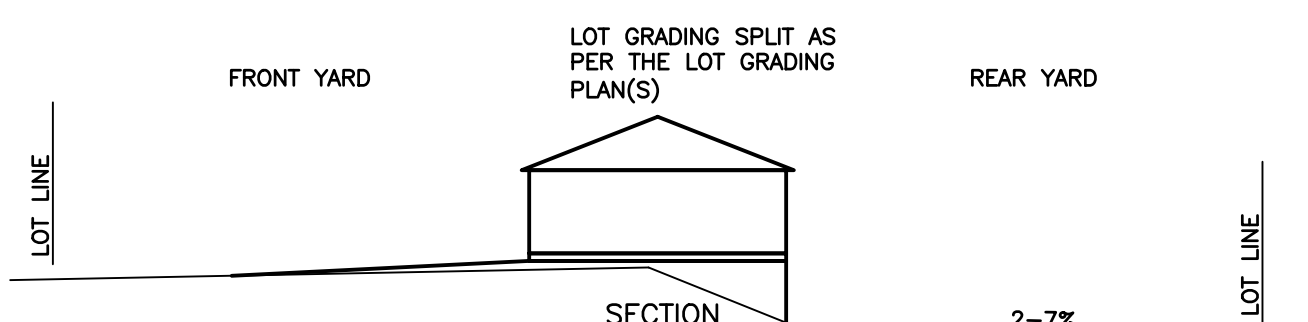
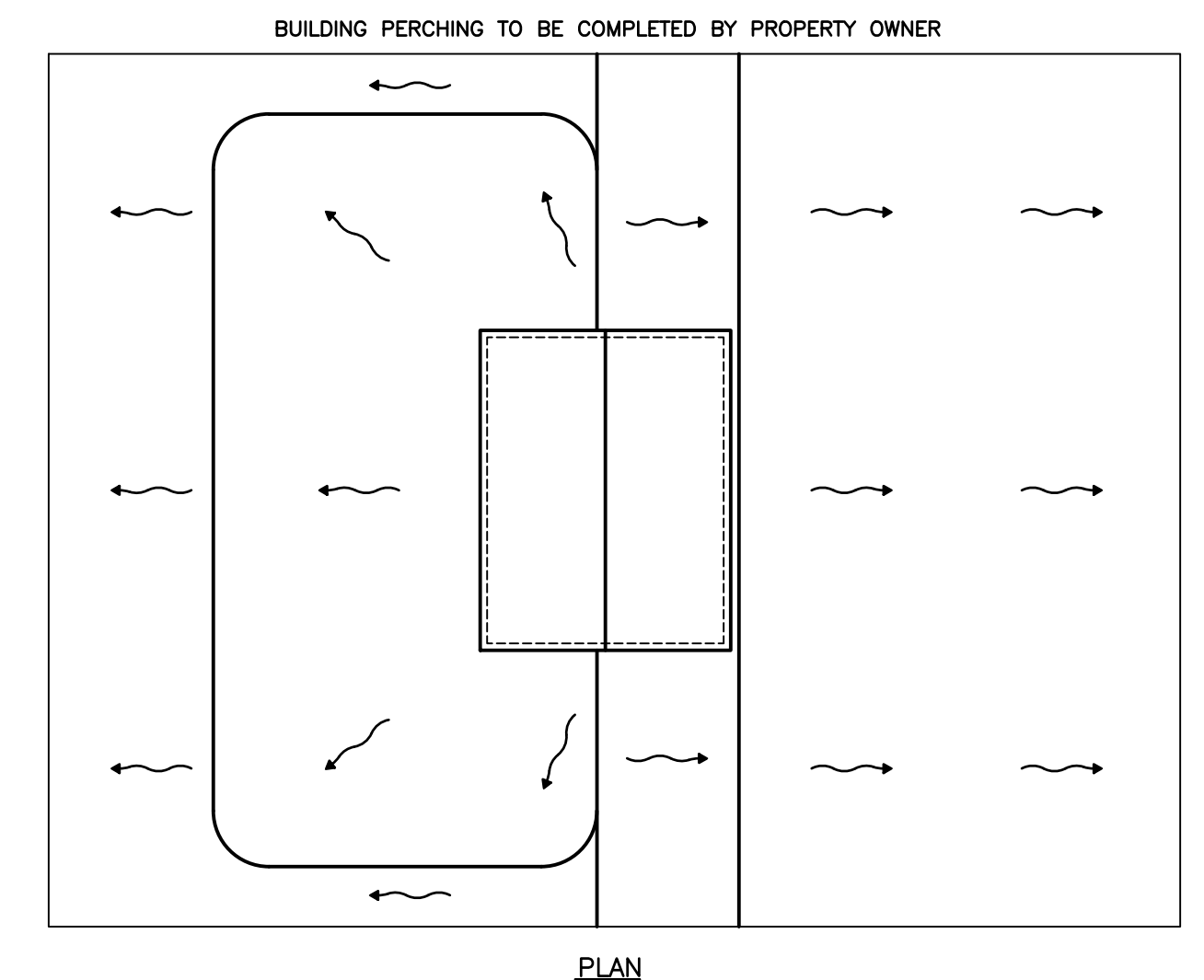
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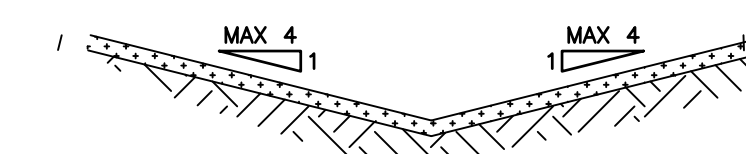
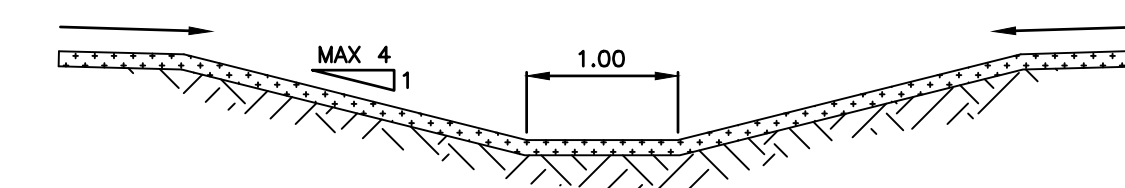
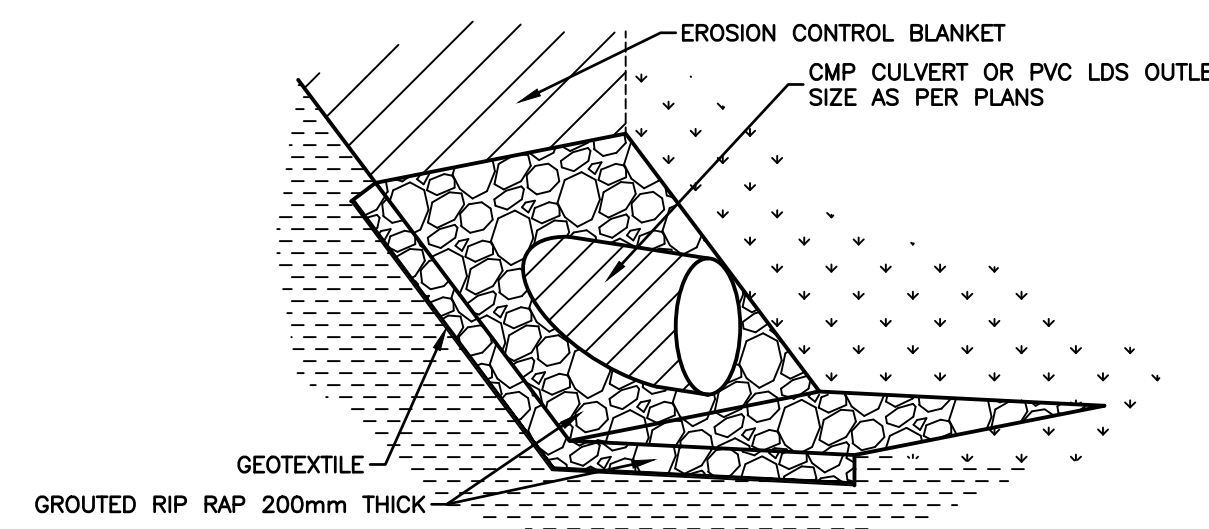
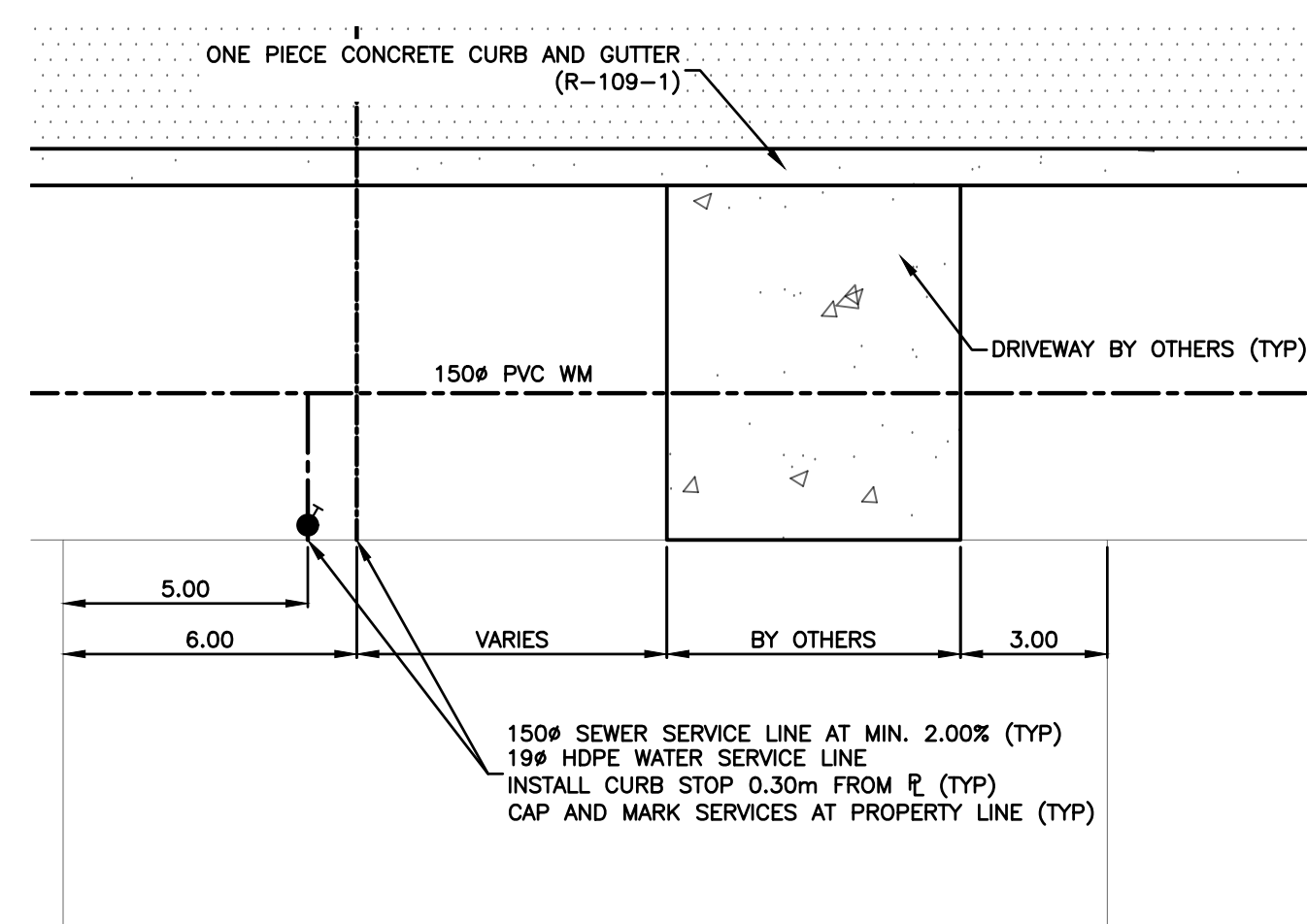
2 BACK-FRONT LOT DRAINAGE - HOUSE PERCHING
1
SCALE = NTS



3 FRONT-BACK LOT DRAINAGE - HOUSE PERCHING
1 SCALE = NTS



4 REAR WALK-OUT LOT DRAINAGE - HOUSE PERCHING
1 SCALE = NTS



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Apr 01, 2024 - 2:13pm G:\500\536 City of Dryden\536.02 Van Horns Landing Subdivision Design and Mario Milanese\dwg\Design Plans - Mario Milanese\Annotation Plans\DT1 DT2 DT3 DT4.dwg

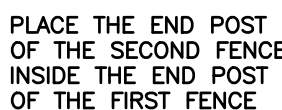


1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 914mm.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 3.048m APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 300mm. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 1.829m.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 100mm WIDE AND 100mm DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 25mm LONG, TWO WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM 50mm AND SHALL NOT EXTEND MORE THAN 914mm ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 200mm OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 914mm ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. SILT FENCING TO BE POLYPROPYLENE SYNTHETIC FIBRE WITH ULTRAVIOLET STABILIZERS. AMOCO 1198 OR APPROVED EQUAL.
9. WOOD POSTS TO BE 38mm x 89mm (2" x 4"), POINTED AT ONE END AND FABRICATED.
10. INSTALL ALL SUPPORTING POSTS ON THE DOWN SLOPE SIDE OF THE FENCING
11. MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION AND UNTIL REVEGETATION OCCURS.

SCALE = 1:40



SCALE = 1:10



ROTATE BOTH POSTS AT LEAST
180 DEGREES IN A CLOCKWISE
DIRECTION TO CREATE A TIGHT
SEAL WITH THE FABRIC MATERIAL

DRIVE BOTH POSTS ABOUT
457mm INTO THE GROUND
AND BURY FLAP

ATTACHING TWO SILT FENCES

SCALE = 1:10



MIN. 2.000m WIDE 100%
COCONUT FIBRE BLANKET
ANCHORED TO TRENCH

-STAKE THROUGH STEN LOC

3 STFN LOG DETAIL

SCALE = 1:30



1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
3. SEED SHALL BE PLACED PRIOR TO PLACING BLANKET.

MIN. 50mm OVE

STAPLES (SEE STAPLING DETAIL)

EROSION CONTROL BLANKET TO
BE ANCHORED AT BOTTOM OF
GRADE OR BACK SLOPE WITH
STAPLES AT 300 mm INTERVALS

(DITCH AREA) \

4 EROSION CONTROL BLANKET ON GRADE OR BACK SLOPE (GS OR BS)

SCALE = 1:50

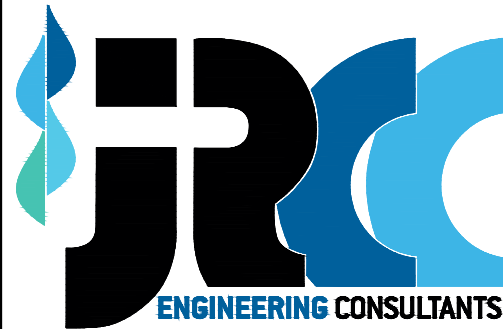
					B.M. EL.
1	ISSUED FOR 99% REVIEW		DEC 2023	JW	LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.
No.	REVISIONS		DATE	INITIALS	

B.M. EL.

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ENGINEER'S SEAL

PRELIMINARY



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f. [204] 489-0487
www.jrcc.ca

ENGINEERING EXCELLENCE SINCE 1981

CODE:

D-536-03

DESIGNED BY:

DESIGNED BY

MF

DRAWN BY:

JW

PROJECT:
CITY OF DRYDEN
MARIO MILANESE SUBDIVISION STAGE 3

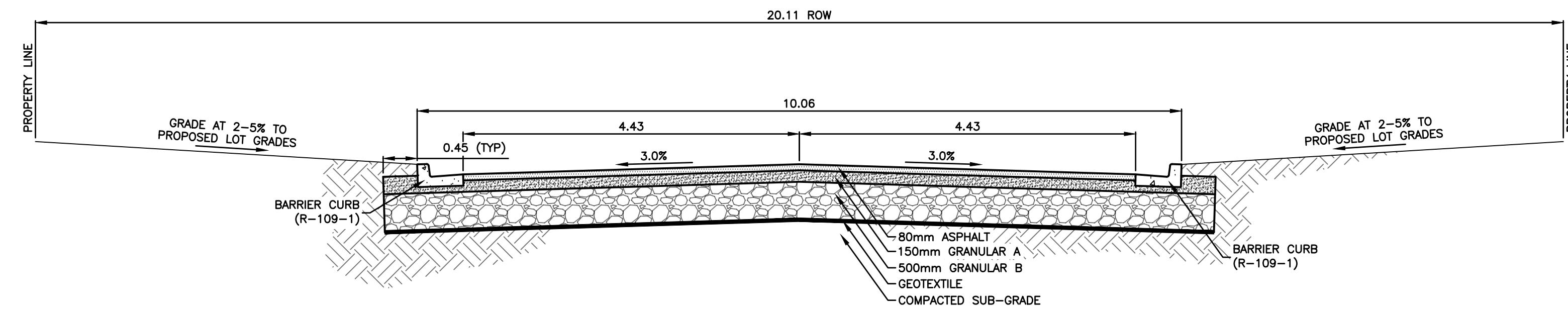
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SCALE:

DATE: _____

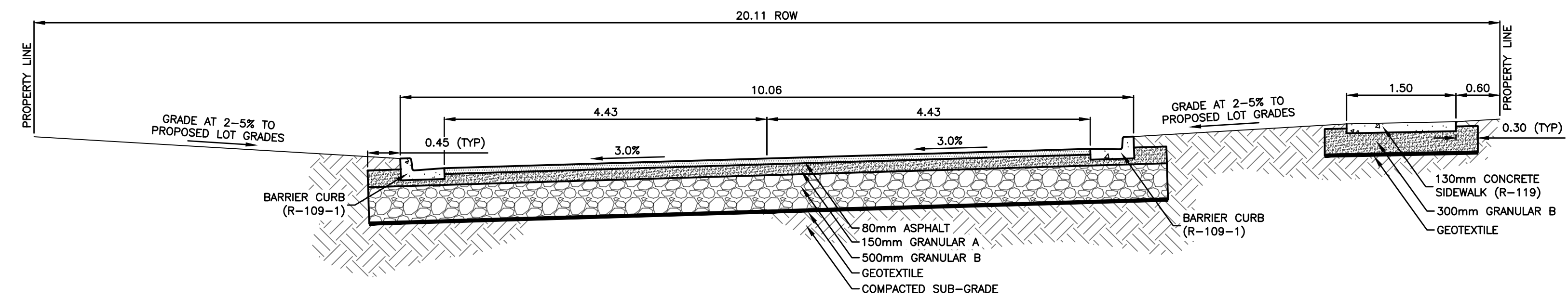
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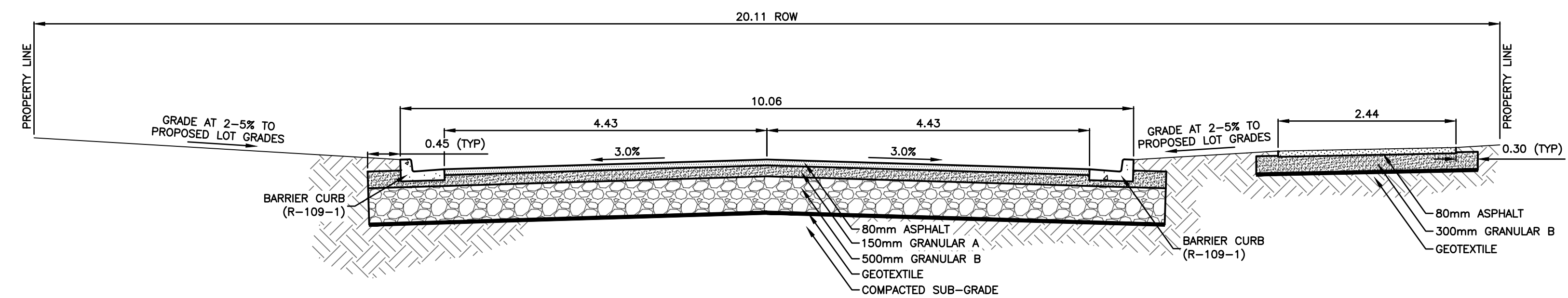


ROAD CROSS SECTION

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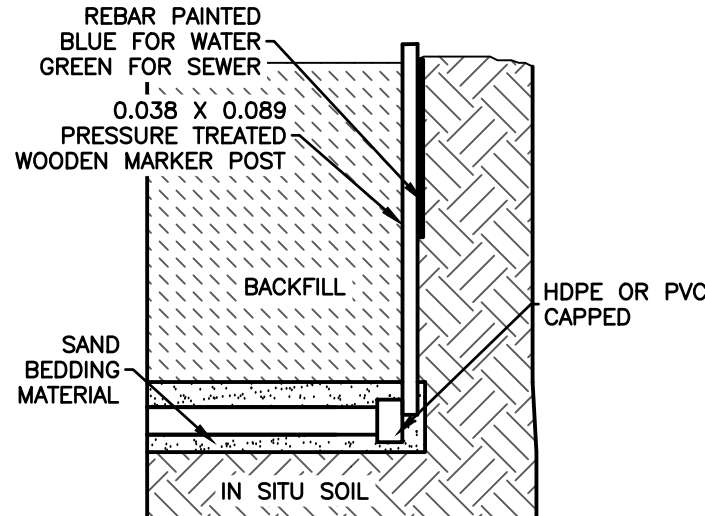
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SCALE = 1:50



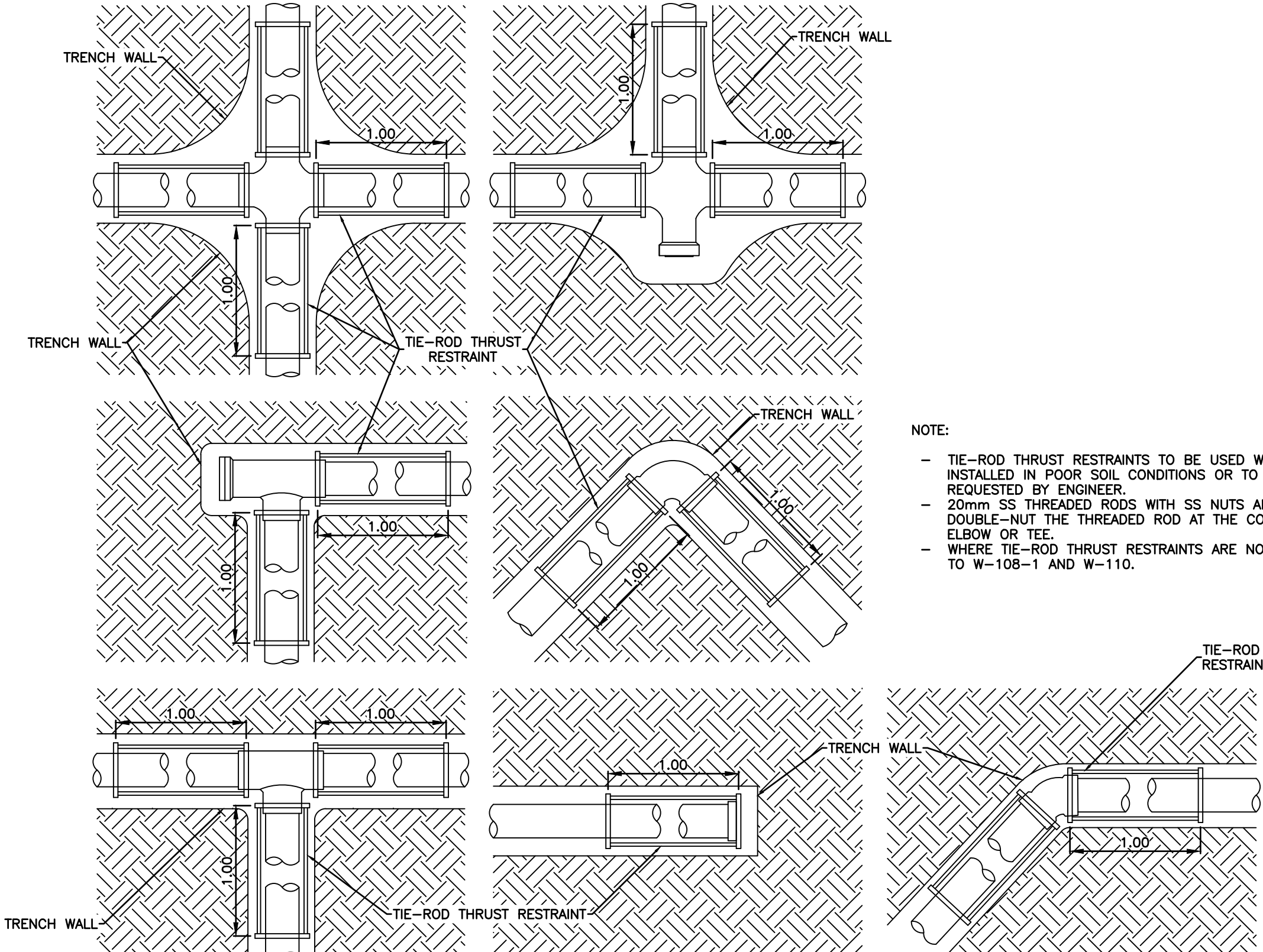
ROAD CROSS SECTION WITH SIDEWALK

SCALE = 1:50

					B.M. EL.	ENGINEER'S SEAL PRELIMINARY  JR Cousin Consultants Ltd. 91A Scurfield Blvd. Winnipeg MB R3Y 1G4 p. (204) 489-0474 f. (204) 489-0487 www.jrcc.ca ENGINEERING EXCELLENCE SINCE 1981	CODE: D-536.02 DESIGNED BY: MF DRAWN BY: JW REVIEWED BY: SB PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3 TITLE: ROADWAY DETAILS SCALE: AS NOTED DATE: 24/04/01 PLAN: DT3 SHEET: 13 of 17
					LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.		
1	ISSUED FOR 99% REVIEW	DEC 2023	JW				
No.	REVISIONS	DATE	INITIALS				



1 PIPE END MARKER
4 SCALE = 1:20



NOTE:

- TIE-ROD THRU RESTRAINTS TO BE USED WHEN PIPE IS INSTALLED IN POOR SOIL CONDITIONS OR TO BE USED AS REQUESTED BY ENGINEER.
- 20mm SS THREADED RODS WITH SS NUTS AND WASHERS. DOUBLE-NUT THE THREADED ROD AT THE CONNECTION TO THE ELBOW OR TEE.
- WHERE TIE-ROD THRU RESTRAINTS ARE NOT REQUIRED, DEFER TO W-108-1 AND W-110.

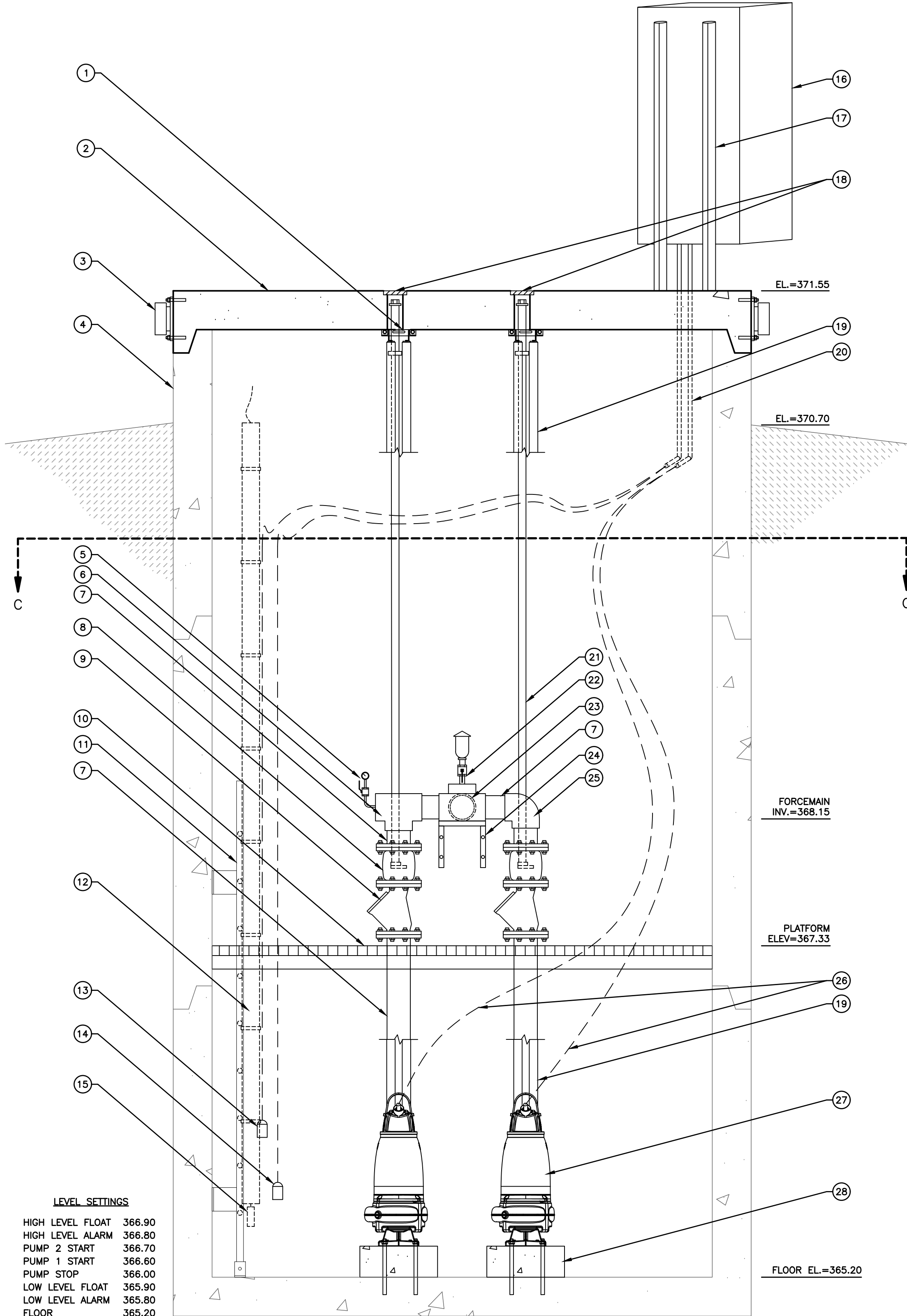
2 TIE-ROD THRUST RESTRAINT DETAILS
4 SCALE = 1:20

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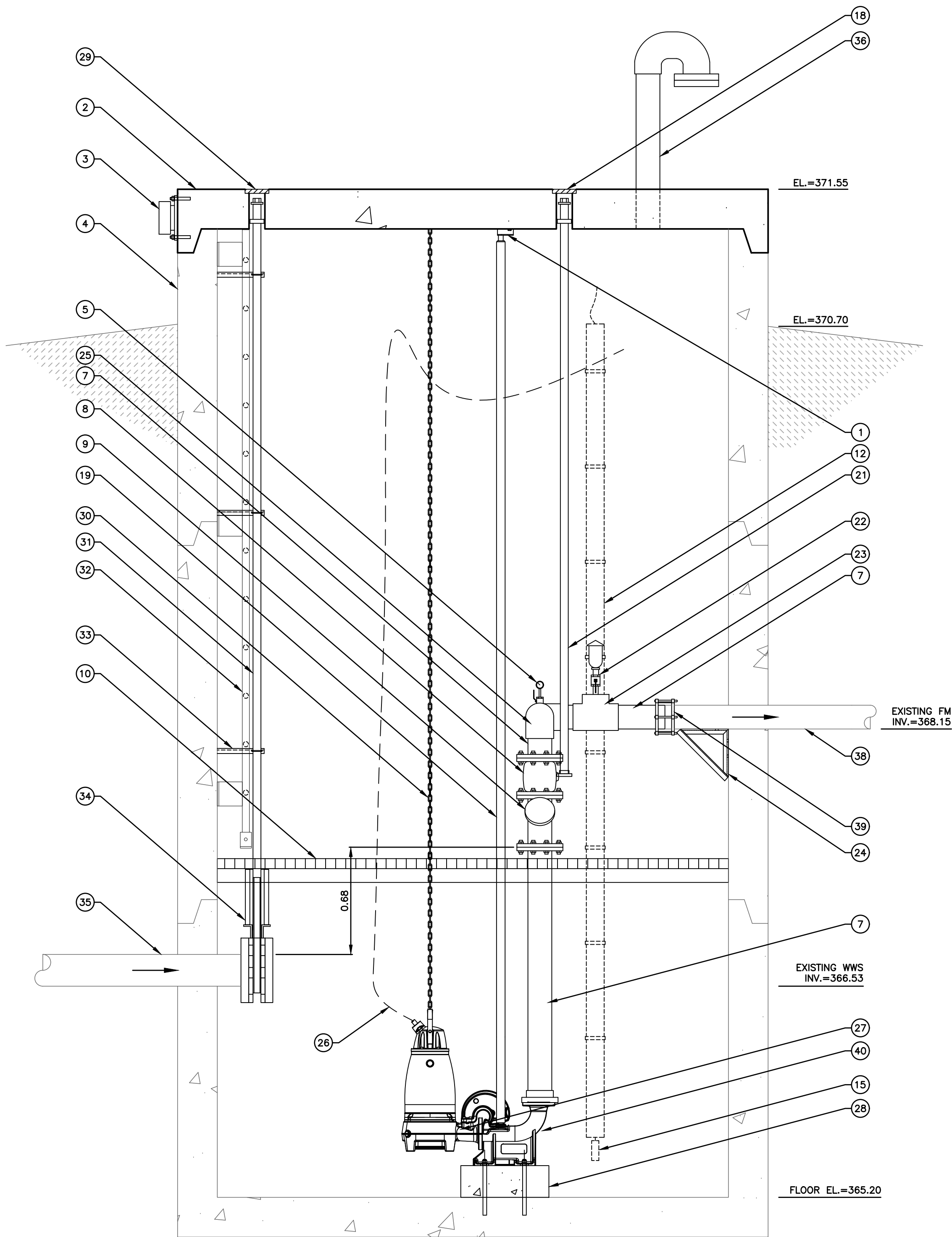
ITEM	DESCRIPTION
1	STAINLESS STEEL UPPER GUIDE BAR HOLDER
2	REPLACEMENT CONCRETE FLAT TOP, MATCH EXISTING BARREL DIAMETER
3	SOCKET FOR LIFTING DAVIT
4	EXISTING LIFT STATION BARREL (APPROX 3200mm ID)
5	PRESSURE GAUGE
6	150# SS TEE (TAP BLIND FLANGE END FOR PRESSURE GAUGE)
7	150# SS PIPING C/W PIPE SUPPORT
8	150# PLUG VALVE
9	150# FLANGED BALL CHECK VALVE
10	SLIP RESISTANT FIBERGLASS INTERMEDIATE FLOOR 38mm THICK X 38mm MESH YELLOW GRATING. SUPPORT ON FRP I-BEAM OR ANGLE SUPPORTS SECURED TO WALL. DESIGN ASSEMBLY TO SUPPORT 100 LBS/SQ. FT. WITH LESS THAN 8.1mm OF DEFLECTION. (FIBREGRATE CANADA OR APPROVED EQUAL)
11	ACCESS LADDER LOWER LEVEL
12	150# PVC STILLING WELL, CUT PIPE AT 180°, FASTEN AT 600mm SPACING TO LIFT STATION BARREL WITH STAINLESS STEEL SUPPORTS.
13	HIGH LEVEL FLOAT
14	LOW LEVEL FLOAT
15	HYDROSTATIC LEVEL CONTROLLER
16	LIFT STATION PUMP CONTROL PANEL C/W HAZARDOUS JUNCTION BOX AND AUTOMATIC TRANSFER SWITCH PANEL
17	2-75# GALVANIZED STEEL PIPES AS SUPPORT POST
18	CORE HOLES THROUGH BARREL TOP FOR PLUG VALVE OPERATOR RODS. PROVIDE STAINLESS STEEL COVER BOLTED TO BARREL TOP. COVER TO BE FLUSH WITH BARREL TOP (TYP)
19	50# SS SCH. 40 PIPE AS GUIDE BARS COMPLETE WITH INTERMEDIATE GUIDE BAR HOLDERS AS REQUIRED (25# PER OPTIONAL EQUIPMENT)
20	POWER AND CONTROL CONDUITS FROM LIFT STATION PANEL
21	PLUG VALVE OPERATOR ROD
22	AIR RELEASE VALVE C/W 25# BALL VALVE
23	150# SS TEE
24	SS SUPPORT BRACKETS
25	150# SS ELBOW
26	ELECTRICAL CABLE FOR PUMPS
27	SUBMERSIBLE PUMPS AS PER SPECIFICATION
28	200mm TALL CONCRETE PEDESTAL BASE FOR PUMPS. DRILL AND ANCHOR TO LIFT STATION FLOOR.
29	CORE HOLE THROUGH BARREL TOP FOR KNIFE GATE VALVE OPERATOR ROD. PROVIDE STAINLESS STEEL COVER BOLTED TO BARREL TOP. COVER TO BE FLUSH WITH BARREL TOP (TYP).
30	7mm# GALVANIZED STEEL CHAIN. MINIMUM 12m LONG COMPLETE WITH STAINLESS STEEL CHAIN HOOK. LOCATE IN ACCESS OPENING. COIL EXCESS CHAIN AT HOOK
31	KNIFE GATE VALVE OPERATOR ROD
32	ACCESS LADDER UPPER LEVEL
33	PROVIDE STAINLESS STEEL SUPPORTS AS REQUIRED FOR VALVE OPERATING RODS
34	200# KNIFE GATE VALVE C/W FLANGE ADAPTER TO EXISTING SEWER STUB
35	EXISTING 200# SEWER PIPING
36	150# SS CHAMBER VENT, C/W 150# FLANGE, 180° RET. BEND, BIRDSCREEN
37	150# SS TEE (ONE END FLANGED FOR AIR RELEASE VALVE)
38	EXISTING 150# PVC FORCEMAIN
39	150# RESTRAINED COUPLER
40	150# DISCHARGE ELBOW
41	ACCESS HATCH

GENERAL NOTES:

- ALL WORK TO BE PERFORMED PER CANADA'S NATIONAL WORK PLACE HEALTH AND SAFETY.
- PROVIDE VALVE ROD SUPPORTS AS REQUIRED.
- PROVIDE SUPPORT/RESTRAINT FOR ALL PIPING AS REQUIRED.
- PROVIDE GALVANIZED STEEL SUPPORT POST FOR CONTROL PANEL.
- SUPPORT POSTS FOR CONTROL PANEL TO EXTEND MINIMUM 1500mm BELOW GROUND AND BE BOLTED IN TWO LOCATIONS TO BARREL WITH STAINLESS STEEL BOLTS AND BRACKETS.
- ENSURE THE SWING OF THE LIFT STATION ACCESS HATCHES CLEAR THE CONTROL PANEL.
- ALL PIPING TO BE SCH 40 STAINLESS STEEL UNLESS OTHERWISE NOTED.
- LIFT STATION BARREL TO BE WATERTIGHT. INSPECT EXISTING CONCRETE BARREL AND PACK VOIDS WITH XPEX CONCENTRATE.
- CONTRACTOR SHALL PERFORM FIELD PRESSURE TEST ON PIPES AS PER SPECIFICATIONS.
- INSTALL PUMPS AS PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PERFORM PUMP TESTS AS PER SPECIFICATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR LIFT STATION EQUIPMENT CONTROLS AND OPERATIONAL REQUIREMENTS.



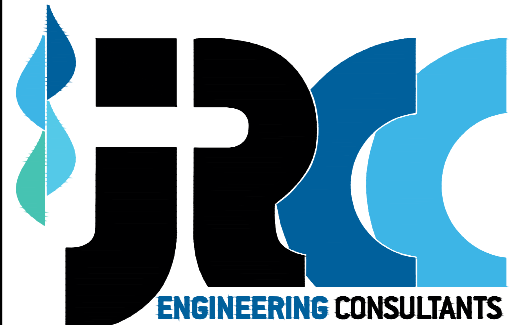
1 LIFT STATION SIDE SECTION A-A
SCALE = 1:20



2 LIFT STATION SIDE SECTION B-B
SCALE = 1:20

				B.M. EL.
				SEE PLAN G11
				LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.
1	ISSUED FOR 99% REVIEW	DEC 2023	JW	
No.	REVISIONS	DATE	INITIALS	

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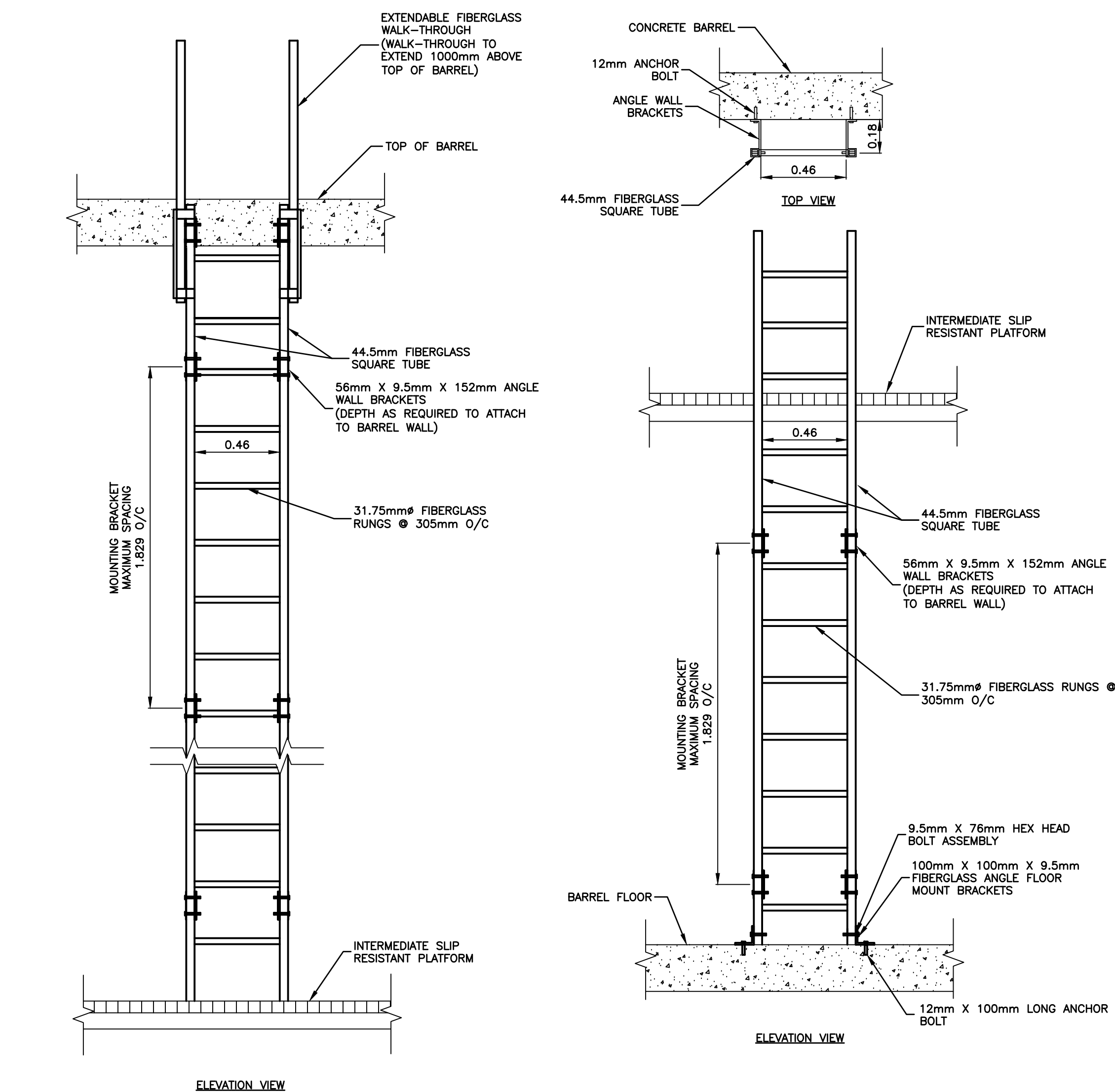
ENGINEERING EXCELLENCE SINCE 1981

CODE: D-536.02
DESIGNED BY: MF
DRAWN BY: JW
REVIEWED BY: SB

PROJECT: CITY OF DRYDEN
MARIO MILANESE SUBDIVISION STAGE 3

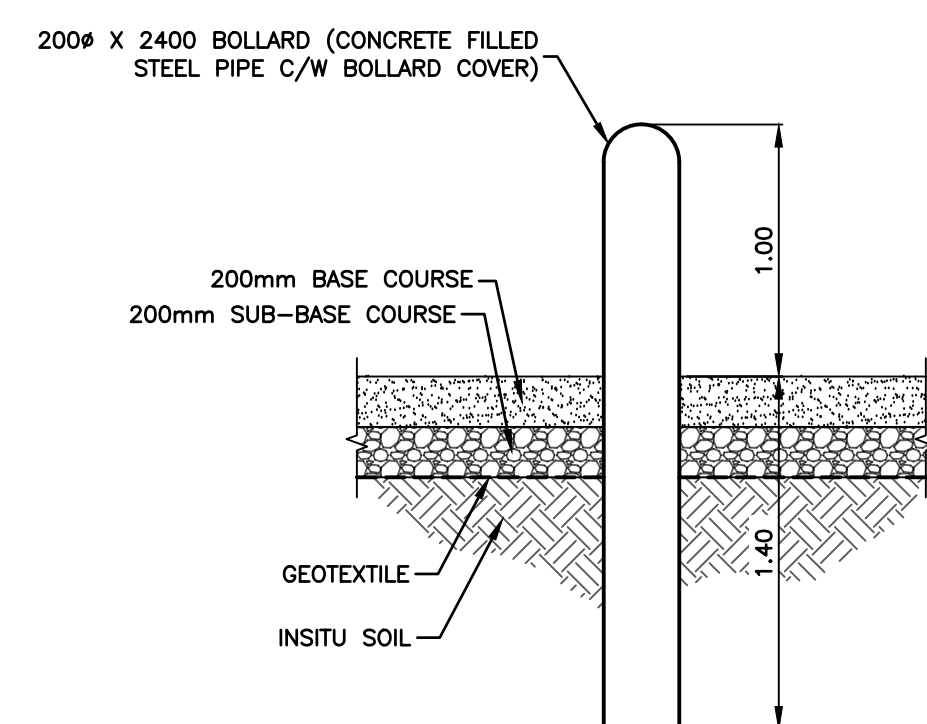
TITLE: LIFT STATION SECTION DETAILS

SCALE: AS NOTED
DATE: 24/04/01
PLAN: LS1
SHEET: 15 of 17



1 UPPER ACCESS LADDER DETAIL
2 SCALE = 1:20

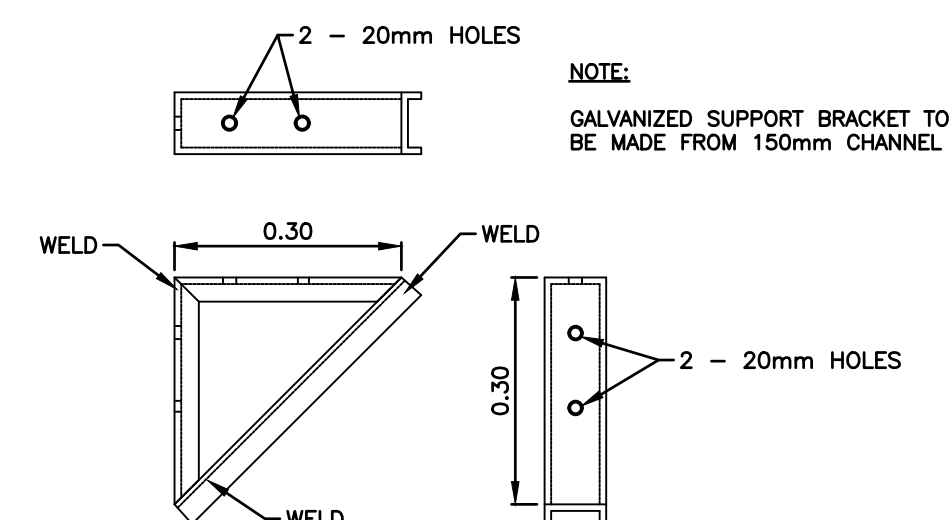
2 LOWER ACCESS LADDER DETAIL
2 SCALE = 1:20



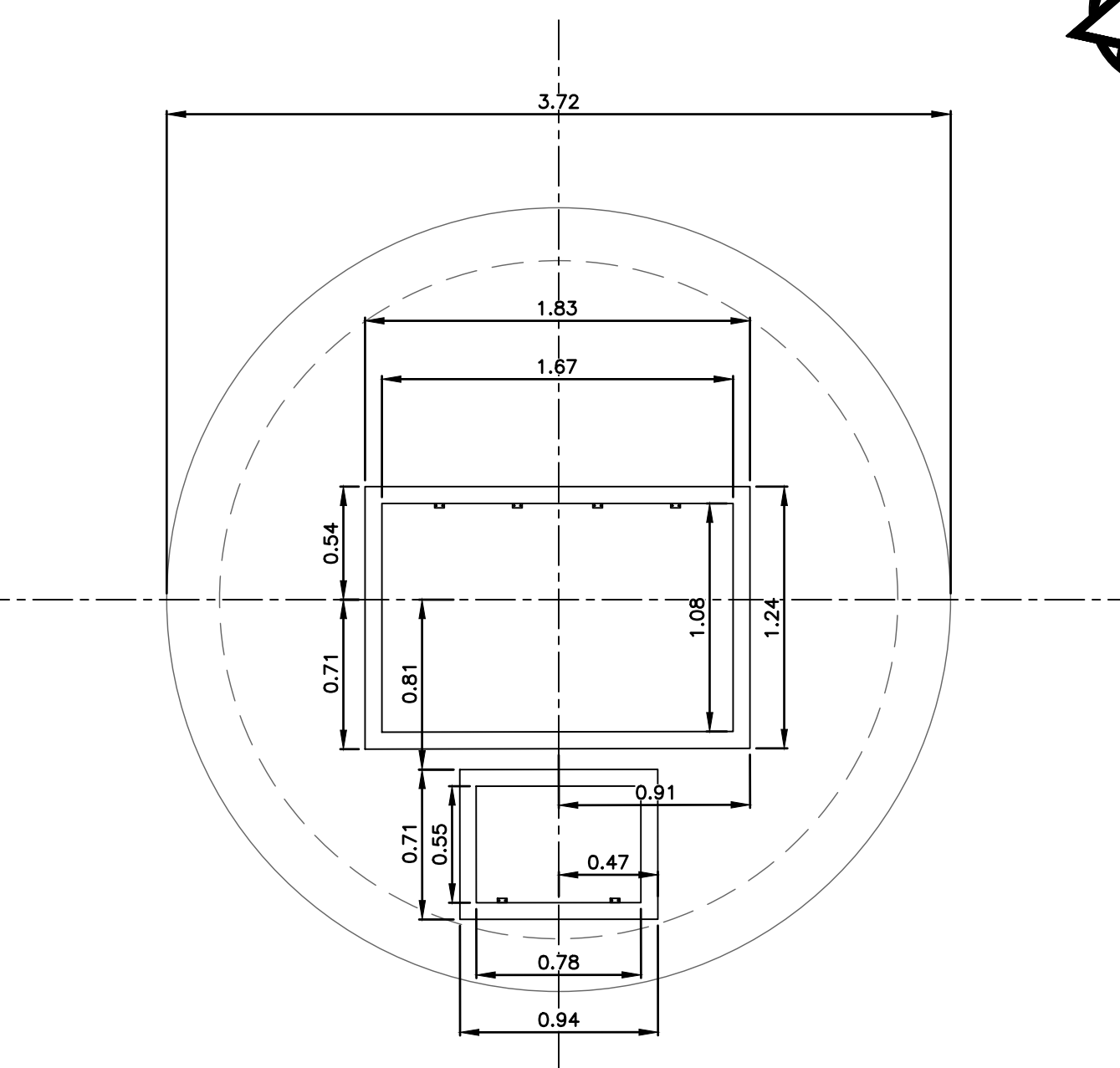
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TYPICAL BOLLARD DETAIL

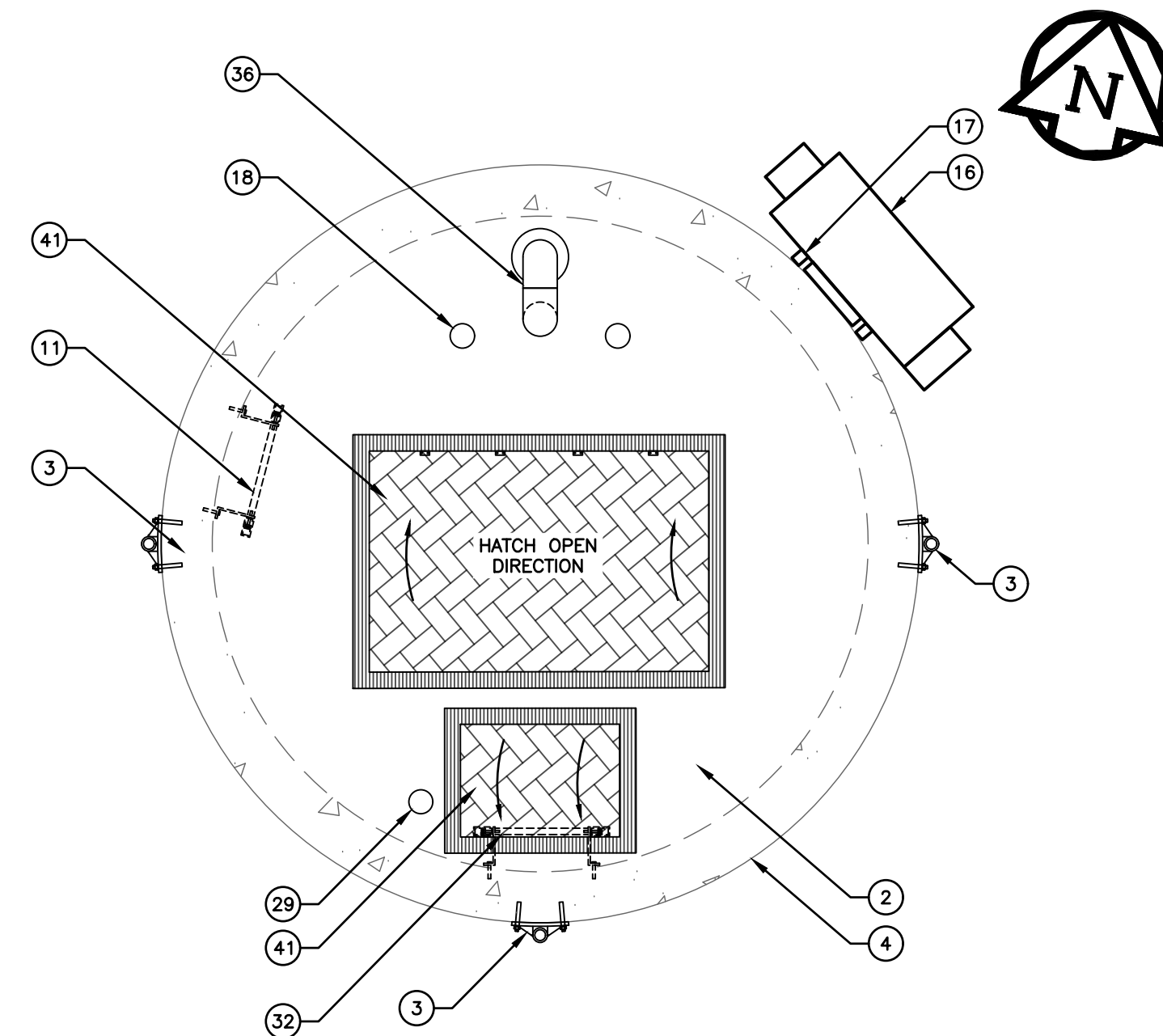
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5 TYPICAL SUPPORT BRACKET
2 SCALE = 1:10



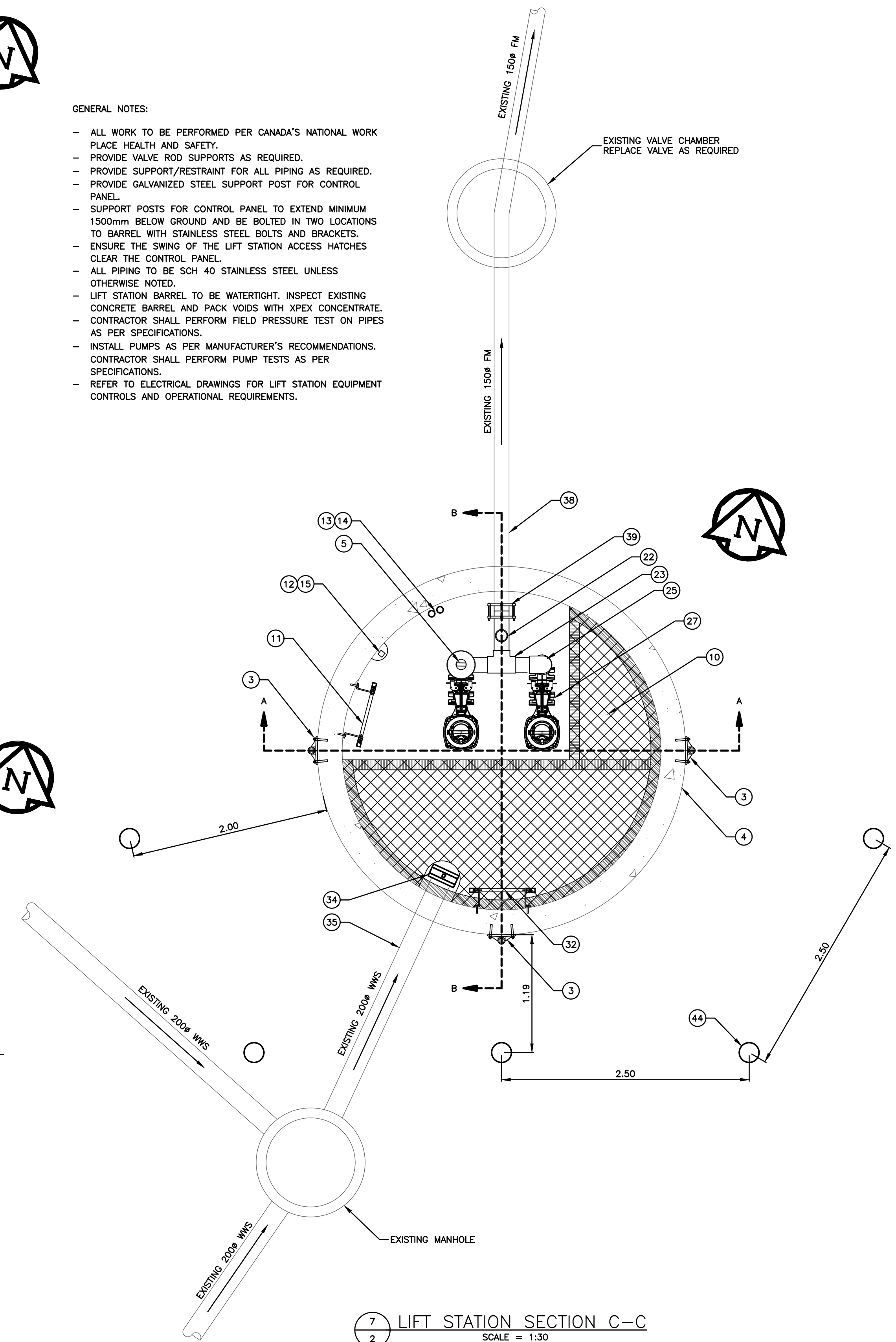
6 ACCESS HATCH PLACEMENT
2 SCALE = 1:50



PROPOSED LIFT STATION TOP

SCALE = 1:30

- GENERAL NOTES:
- ALL WORK TO BE PERFORMED PER CANADA'S NATIONAL WORK PLACE HEALTH AND SAFETY.
 - PROVIDE VALVE ROD SUPPORTS AS REQUIRED.
 - PROVIDE SUPPORT/RESTRAINT FOR ALL PIPING AS REQUIRED.
 - PROVIDE GALVANIZED STEEL SUPPORT POST FOR CONTROL PANEL.
 - SUPPORT POSTS FOR CONTROL PANEL TO EXTEND MINIMUM 1500MM BELOW GROUND AND BE BOLTED IN TWO LOCATIONS TO BARREL WITH STAINLESS STEEL BOLTS AND BRACKETS.
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 - LIFT STATION BARREL TO BE WATERTIGHT. INSPECT EXISTING CONCRETE BARREL AND PACK VOIDS WITH XPEX CONCENTRATE.
 - CONTRACTOR SHALL PERFORM FIELD PRESSURE TEST ON PIPES AND SPECIFICALLY THE LIFT STATION.
 - INSTALL PUMPS AS PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PERFORM PUMP TESTS AS PER SPECIFICATIONS.
 - REFER TO ELECTRICAL DRAWINGS FOR LIFT STATION EQUIPMENT CONTROLS AND OPERATIONAL REQUIREMENTS.



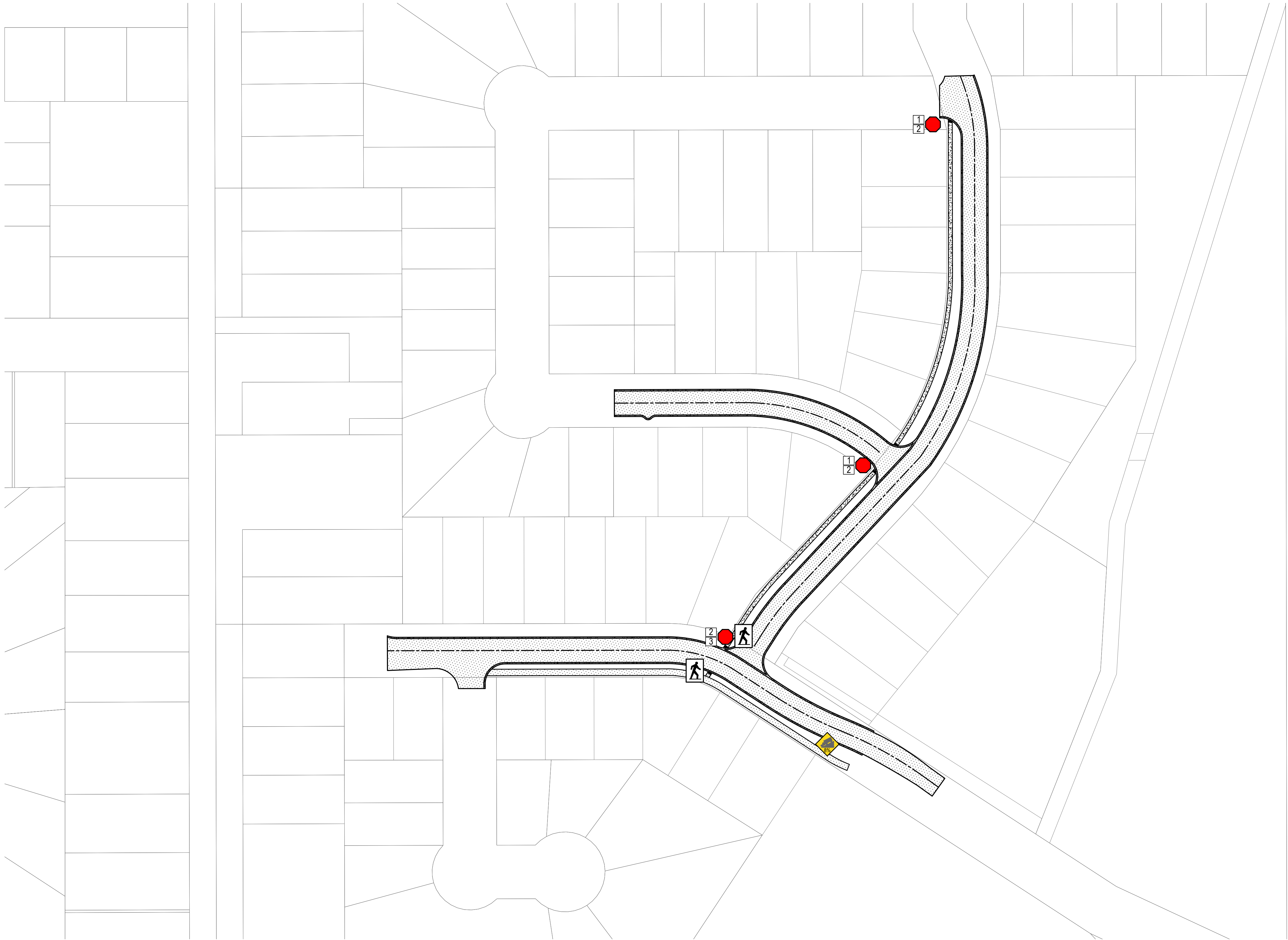
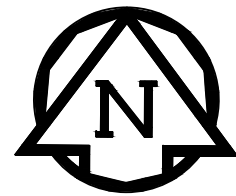
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LIFT STATION SECTION C-C

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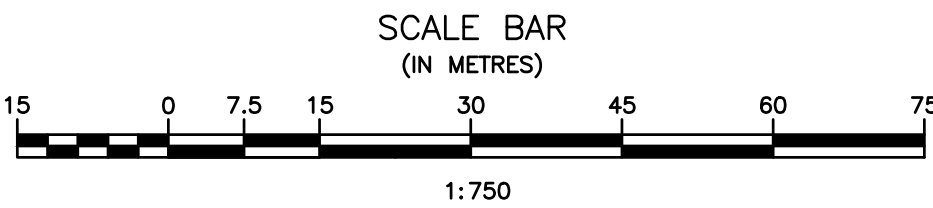
					B.M. EL.	ENGINEER'S SEAL PRELIMINARY  JR Cousin Consultants Ltd. 91A Scurfield Blvd. Winnipeg MB R3Y 1G4 p. (204) 489-0474 f. (204) 489-0487 www.jrcc.ca ENGINEERING EXCELLENCE SINCE 1981	CODE: D-536.02	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3				
					SEE PLAN G11		DESIGNED BY: MF	TITLE: LIFT STATION DETAILS				
					LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL		DRAWN BY: JW					
					UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.		REVIEWED BY: SR	SCALE:	AS NOTED	DATE: 24/04/01	PLAN: 1S2	SHEET: 16 of 17
1	ISSUED FOR 99% REVIEW		DEC 2023	JW								
No.	REVISIONS		DATE	INITIALS								

Apr 01, 2024 - 21:30pm © 2000-2024 City of Dryden\326.02 - Mr. Mario Milanesi Subdivision Stage 3\34 Drawings\Map\Design Plans - Mario Milanesi\Variation Plans\321.rdg



SIGNAGE LEGEND:	
1	MARIO MILANESE PLACE
2	ELVIS AVENUE
3	SANDY BEACH ROAD
	STOP SIGN
	PEDESTRIAN CROSWALK
	STEEP SLOPE - 8%

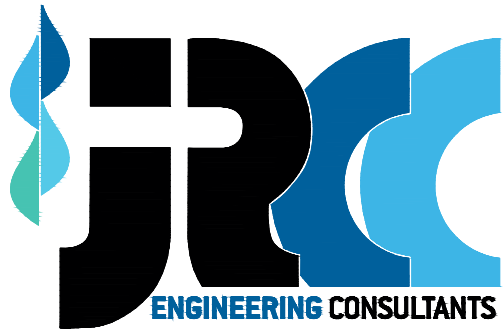
- NOTES:
- COMPLETE ALL WORKS IN ACCORDANCE WITH THE CITY OF THUNDER BAY ENGINEERING AND DEVELOPMENT STANDARDS AS WELL AS THE ONTARIO PROVINCIAL STANDARDS. THUNDER BAY STANDARDS TO TAKE PRECEDENCE.
 - FIELD LOCATE ALL EXISTING SERVICE LINES, MAINLINES, AND UTILITIES PRIOR TO CONSTRUCTION.
 - J.R. COUSIN CONSULTANTS LTD. RETAINS THE RIGHT TO ALTER THE DESIGN AT A LATER DATE AS ACTUAL CONDITIONS MAY DICTATE.
 - SALVAGE AND REINSTALL EXISTING SIGNAGE AS DIRECTED BY ENGINEER.
 - FINAL LOCATION OF SIGNS TO BE DETERMINED ON SITE.
 - STREET PARKING AND PUBLIC TRANSIT SIGNAGE TO BE INSTALLED AS DIRECTED BY THE CITY OF DRYDEN.



				B.M. EL.
				SEE PLAN G11
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ENGINEERING EXCELLENCE SINCE 1981

CODE: D-536.02	PROJECT: CITY OF DRYDEN MARIO MILANESE SUBDIVISION STAGE 3			
DESIGNED BY: MF	TITLE: SIGNAGE PLAN			
DRAWN BY: JW				
REVIEWED BY: SB				
SCALE: 1:750	DATE: 24/04/01	PLAN: SG1	SHEET: 17 of 17	