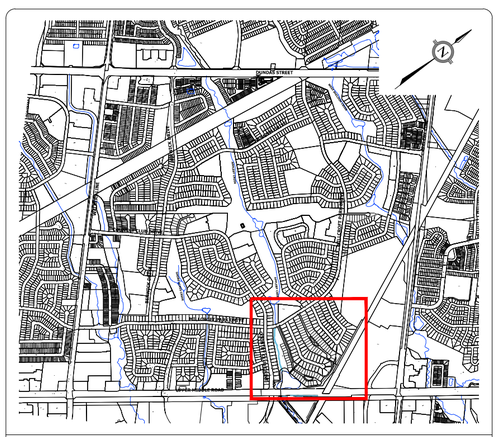
NOTE: NO TRADES PARKING OR TRUCK STAGING WILL BE ALLOWED ON THE MUNICIPAL RIGHT OF WAY.



KEY PLAN
N.T.S.

LEGEND

- TREE PRESERVATION ZONE
- TREE TO REMAIN
- TREE CROWN
- TREE PROTECTION FENCE
- SEDIMENT / CONSTRUCTION / TREE PROTECTION FENCE
- SITE BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- PROPOSED DEVELOPMENT CONSTRAINT LIMIT
- PROPOSED REFINED CH APPROXIMATE REGULATION LIMIT

ADDITIONAL CMMP DETAILS TO BE PROVIDED AND DIMENSIONS TO BE CONFIRMED DURING DETAILED DESIGN

PARKLANE CRESCENT

MILLCROFT PARK DRIVE

CANADIAN NATIONAL RAILWAY

HADFIELD COURT

EXISTING RESIDENTIAL

EXISTING RESIDENTIAL

COUNTRY CLUB DRIVE

MCKERLIE DRIVE

UPPER MIDDLE ROAD

LIMIT OF EXCAVATION TRENCH AND TEMPORARY LANE & SIDEWALK CLOSURE. DISRUPTION OF ROAD, CURB & GUTTER AND SIDEWALK FOR DURATION OF INSTALLATION OF PROPOSED CIVIL SERVICES.

TEMPORARY CONSTRUCTION ENTRANCE AND MUD MAT

PARKING AREA

STOCKPILE TO BE LOCATED AWAY FROM EXISTING LOTS

HAULAGE ROUTE EAST ON COUNTRY CLUB DRIVE OUT TO UPPER MIDDLE ROAD

LIMIT OF EXCAVATION TRENCH AND TEMPORARY LANE & SIDEWALK CLOSURE. DISRUPTION OF ROAD, CURB & GUTTER AND SIDEWALK FOR DURATION OF INSTALLATION OF PROPOSED CIVIL SERVICES.

TEMPORARY CONSTRUCTION ENTRANCE AND MUD MAT

PARKING AREA

STOCKPILE TO BE LOCATED AWAY FROM APPLEBY CREEK AND THE SWM POND

PROPOSED PEDESTRIAN BRIDGE

30m C.N.R. SETBACK

30m C.N.R. SETBACK

30m C.N.R. SETBACK

HAULAGE ROUTE EAST ON COUNTRY CLUB DRIVE OUT TO UPPER MIDDLE ROAD

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

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A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 - urbantech.com

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO

MILLCROFT GREEN
CITY OF BURLINGTON

CONSTRUCTION MANAGMENT & MOBILITY PLAN

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:1000	CMMP-AB

NOTE: NO TRADES PARKING OR TRUCK STAGING WILL BE ALLOWED ON THE MUNICIPAL RIGHT OF WAY.

COUNTRY CLUB DRIVE

ARBOURFIELD DRIVE

6m BUFFER

PARKING AREA

LIMIT OF EXCAVATION TRENCH AND TEMPORARY LANE & SIDEWALK CLOSURE. DISRUPTION OF ROAD, CURB & GUTTER AND SIDEWALK FOR DURATION OF INSTALLATION OF PROPOSED CIVIL SERVICES.

TEMPORARY CONSTRUCTION ENTRANCE AND MUD MAT

STOCKPILE TO BE LOCATED AWAY FROM EXISTING LOTS

HAULAGE ROUTE WEST ON COUNTRY CLUB DRIVE OUT TO VALLEDER LINE

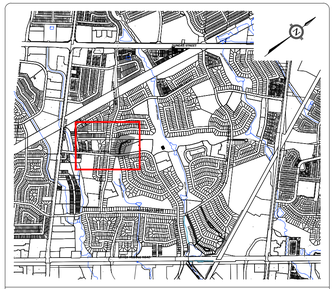
6m BUFFER

KANE CRESCENT

BERWICK DRIVE

COUNTRY CLUB DRIVE

ADDITIONAL CMMP DETAILS TO BE PROVIDED AND DIMENSIONS TO BE CONFIRMED DURING DETAILED DESIGN



KEY PLAN
N.T.S.

LEGEND

- TREE PRESERVATION ZONE
- TREE TO REMAIN
- TREE CROWN
- TREE PROTECTION FENCE
- SEDIMENT / CONSTRUCTION / TREE PROTECTION FENCE
- SITE BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN

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BENCHMARK

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MILLCROFT GREEN
CITY OF BURLINGTON

CONSTRUCTION MANAGMENT & MOBILITTY PLAN

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:500	CMMP-C

CLUBVIEW DRIVE

LATIMER CRESCENT

MILLCROFT PARK DRIVE

HAULAGE ROUTE NORTH ON MILLCROFT PARK ROUTE TO HWY 403 EXIT

EX. POND

LIMIT OF EXCAVATION TRENCH AND TEMPORARY LANE & SIDEWALK CLOSURE. DISRUPTION OF ROAD, CURB & GUTTER AND SIDEWALK FOR DURATION OF INSTALLATION OF PROPOSED CIVIL SERVICES.

EXISTING DICB TO BE REMOVED

TEMPORARY CONSTRUCTION ENTRANCE AND MUD MAT

STOCKPILE TO BE LOCATED AWAY FROM EXISTING LOTS

PARKING AREA

6m BUFFER

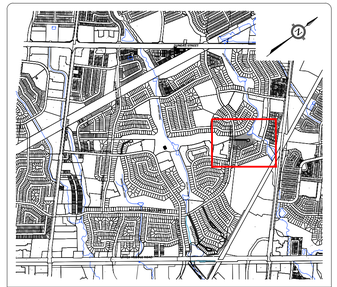
6m BUFFER

MILLCROFT PARK DRIVE

CHASEWOOD COURT

NOTE: NO TRADES PARKING OR TRUCK STAGING WILL BE ALLOWED ON THE MUNICIPAL RIGHT OF WAY.

ADDITIONAL CMMP DETAILS TO BE PROVIDED AND DIMENSIONS TO BE CONFIRMED DURING DETAILED DESIGN



KEY PLAN
N.T.S.

LEGEND

- TREE PRESERVATION ZONE
- TREE TO REMAIN
- TREE CROWN
- TREE PROTECTION FENCE
- TREE TO BE REMOVED
- TREE CROWN
- SEDIMENT / CONSTRUCTION / TREE PROTECTION FENCE
- SITE BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- PROPOSED DEVELOPMENT CONSTRAINT LIMIT

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MILLCROFT GREEN
CITY OF BURLINGTON

CONSTRUCTION MANAGEMENT & MOBILITY PLAN

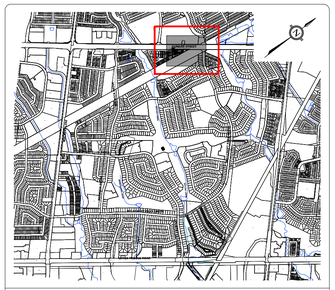
PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:300	CMMP-D



(SOURCE: 59 PROJECT MANAGEMENT INC.)

LUFFING-JIB CRANE

NOTE:
NO TRADES PARKING OR TRUCK STAGING WILL BE ALLOWED IN THE MUNICIPAL RIGHT OF WAY.



KEY PLAN
N.T.S.

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SEDIMENT / CONSTRUCTION / TREE PROTECTION FENCE
- SITE BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- PROPOSED LIMIT OF SHORING
- LIMIT OF SITE PROPERTY
- PROPOSED LUFFING-JIB CRANE SWING RADIUS
- LIMIT OF UNDERGROUND PARKING TO EX. LIMIT OF DUNDAS STREET R.O.W. / LIMIT OF SITE PROPERTY
- LIMIT OF UNDERGROUND PARKING TO PROP. LIMIT OF DUNDAS STREET R.O.W.

NOTE:
ADDITIONAL CMMP DETAILS TO BE PROVIDED AND DIMENSIONS TO BE CONFIRMED DURING DETAILED DESIGN.

BENCHMARK

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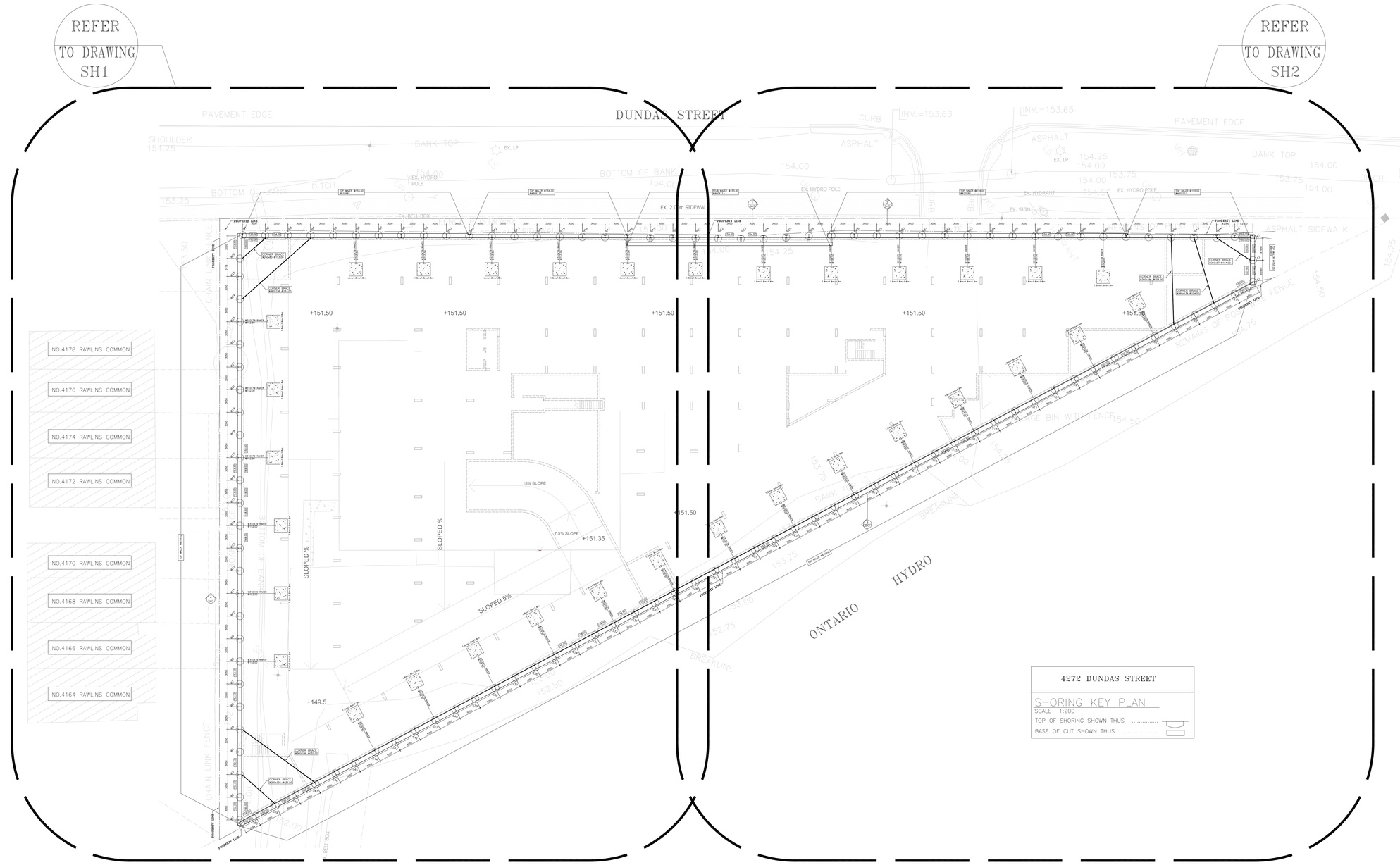
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MILLCROFT GREEN
CITY OF BURLINGTON

CONSTRUCTION MANAGEMENT & MOBILITY PLAN

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:500	CMMP-E



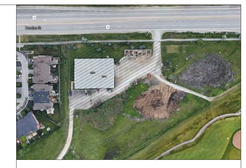
4272 DUNDAS STREET

SHORING KEY PLAN

SCALE 1:200

TOP OF SHORING SHOWN THUS .....

BASE OF CUT SHOWN THUS .....



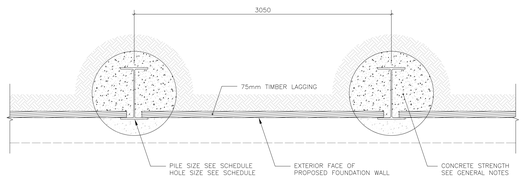
KEY PLAN

TARRA LEGENDS

179.00	TOP OF SHORING/ GRADE
160.50	BASE OF EXCAVATION/ FOUNDATION
	SHORING PILES & CAISSONS
	COMBINED & SHORING STRUCTUARL CAISSONS
	INCLINOMETER LOCATIONS
OR	PROPOSED BUILDING
	EXISTING BUILDING
STORM	EXISTING UTILITIES
BH11	BORE HOLE LOCATIONS
	EXISTING SHORING
EX. BUILDING	REQUESTED PIT LOCATIONS TO VERIFY EXISTING BUILDING/ FOUNDATION (IF REQUIRED)

TARRA UTILITY LEGENDS

GAS_MAIN	COLOR 50
SANITARY	COLOR 210
STORM	COLOR 90
WATER	COLOR 154
ENTRON	COLOR 12
ENRT	COLOR 30
EXISTING	COLOR 8
LINE_TYPE_GRD1	COLOR 8
DEFPOINTS_LAYER	COLOR 144



TYPICAL SOLDIER PILE AND LAGGING LAYOUT
FOR 3050mm SPACING

DETAIL A SH1

SCALE N.T.S.

GENERAL NOTES

A. DESIGN

1. FOR CANTILEVER OR SINGLE LEVEL TIEBACK/RAKER SYSTEM, USE A TRIANGULAR PRESSURE DISTRIBUTION DIAGRAM:

   ACTIVE PRESSURE:
   $\sigma_a = K_a \times (q + OB) +$ SURCHARGE LOAD
   $\sigma_a = K_a \times \gamma \times H +$ LATERAL EARTH PRESSURE

   PASSIVE PRESSURE:
   $\sigma_p = K_p \times \gamma \times D +$ TOE RESISTANCE

   WHERE
   K_a = 0.28 (SOLDIER PILE & LAGGING)
   Kp = 3.5
   γ = 21 kN/m^3 – SOIL DENSITY
   q = 12.5 kN/m^2 – STANDARD SURCHARGE LOAD (SURCHARGE LOAD FROM ADJACENT BUILDING TO BE CALCULATED)
   OB = OVERBURDEN
   H = HEIGHT OF CUT
   D = TOE DEPTH

2. FOR SOIL INFORMATION REFER TO PRELIMINARY GEOTECHNICAL INVESTIGATION PRODUCED BY DS CONSULTANTS LTD., PROJECT #19-199-102 R2, DATED NOVEMBER 12, 2020.
3. ALL SOIL PARAMETERS SHOWN ABOVE ARE TO BE CONFIRMED IN WRITING BY THE GEOTECHNICAL CONSULTANT PRIOR TO THE INSTALLATION OF SHORING.
4. ASSUMED INCLINED RAKER END BEARING CAPACITY 350kPa (ULS)
5. DESIGN IS IN ACCORDANCE WITH ONTARIO BUILDING CODE LATEST EDITION.
6. LOCATIONS AND DEPTHS OF ALL EXISTING SERVICES MUST BE CONFIRMED PRIOR TO THE START OF SHORING OPERATIONS.

B. MATERIALS

1. STRUCTURAL STEEL TO BE NEW OR SOUND USED MATERIAL CONFORMING WITH C.S.A. G40.21, GRADE 350W. WELDING TO CONFORM TO C.S.A. W59 DONE BY WELDERS QUALIFIED TO C.S.A. W47.
2. ALTERNATIVE SECTIONS OF GRADES OF EQUIVALENT STRENGTH MAY BE SUBSTITUTED SUBJECT TO APPROVAL BY TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC.
3. CONCRETE STRENGTHS TO BE MINIMUM OF VALUES SHOWN BELOW:

SHORING TYPE	CONCRETE STRENGTH
RAKERED PILES:	
A) SOLDIER PILE+LAGGING+RAKER	
TOE	0.7 MPa
BACKFILL TO GRADE	0.4 MPa

4. LAGGING TO BE 75mm MIN. ROUGH CUT HARDWOOD UNLESS OTHERWISE NOTED.

C. PROCEDURE

(SOLDIER PILE + LAGGING WITH RAKER)

1. CONTRACTOR TO LAY OUT STAKES FOR ALL PILES. CHECK OF ALL DIMENSIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO THE COMMENCEMENT OF ANY SHORING OPERATIONS.
2. DRILL HOLES TO SIZES AND DEPTHS INDICATED, EMPLOYING LINERS, MUD DRILLING, ETC. AS REQUIRED TO AVOID THE INGRESS OF LOOSE SOIL OR WATER. INSTALL PILES PLUMB AND TO LINE. PLACE CONCRETE TOES WHERE SPECIFIED AND BACKFILL TO GRADE AS NOTED ABOVE – "B"
3. EXCAVATE IN 1200mm MAX. LIFTS, INSTALLING LAGGING AS EXCAVATION PROCEEDS. CUT SOIL FACE NEATLY TO ENSURE TIGHT FIT FOR LAGGING. WEDGE AT PILES WHERE NECESSARY. FILL ALL VOIDS BEHIND LAGGING WITH EXCAVATED MATERIAL RAMMED IN PLACE. IN WET GROUND PROVIDE SUITABLE DRAINAGE SYSTEM BETWEEN LAGGING BOARDS.
4. WHEN EXCAVATION REACHES 300mm MAX. BELOW RAKER ELEVATION, INSTALL RAKER AND WALER.
5. DO NOT CONTINUE EXCAVATION UNTIL RAKER INSTALLATION IS COMPLETE.
6. CONTINUE EXCAVATION TO REQUIRED ELEVATIONS.
7. IT IS THE SHORING SUBCONTRACTORS RESPONSIBILITY TO REVIEW AND UNDERSTAND THE EXISTING SITE CONDITIONS PRIOR TO TENDERING OR COMMENCEMENT OF WORK.

D. PILE INSTALLATION TOLERANCES

CONTRACTOR TO ENSURE PILES ARE INSTALLED PLUMP ON ITS SPECIFIED POSITION. THE VERTICAL OUT OF PLUMPNESS OF SOLDIER PILE IS LIMITED TO THE SMALLEST OF THE FOLLOWING:

- 1% OF PILE HEIGHT (FROM TOP OF PILE TO BASE OF EXCAVATION)
- 1" PER 10'-0" LENGTH OF PILE
- MAXIMUM 4" OVER THE FULL HEIGHT

E. GENERAL CONTRACTOR

1. GENERAL CONTRACTOR TO PROVIDE THE FOLLOWING:
   A) CONDITION SURVEY OF EXISTING ADJACENT STRUCTURES WITHIN THE INFLUENCE AREA OF THE EXCAVATION. MONITOR ADJACENT BUILDINGS FREQUENTLY DURING SHORING OPERATIONS AND REPORT ANY MOVEMENTS OR DETERIORATION TO SHORING ENGINEER IMMEDIATELY.
   B) DEWATER PRIOR TO EXCAVATION TO A MINIMUM OF 1m BELOW EXCAVATION LEVEL IF NECESSARY.
   C) MONITORING OF ALL PILES FOR HORIZONTAL AND VERTICAL MOVEMENTS. REPORT IMMEDIATELY ANY MOVEMENT IN EXCESS OF 12mm – FOR SOLDIER PILE + LAGGING, OF 8mm – FOR CAISSON WALL, TO TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC.
   D) PROVIDE ADEQUATE PROTECTION FOR SHORING SYSTEM AGAINST THE EFFECTS OF WEATHER AND WATER. TARP SLOPES TO AVOID EROSION WHERE NECESSARY.
   E) PROVIDE ACCESS FOR ALL SHORING EQUIPMENT.
   F) COORDINATE SITE SERVICES WITH PROPOSED SHORING AND SHORING EQUIPMENT TO AVOID CONFLICT.
2. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
3. UNDER NO CIRCUMSTANCES SHALL THE GENERAL CONTRACTOR ALLOW ANY COMPONENT OF THE SHORING SYSTEM TO BE REMOVED WITHOUT FIRST NOTIFYING TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC.
4. BASED ON PREVIOUS USE, CLEAN UP AND BACKFILL FOUNDATION LEVEL MAY CHANGE. NOTIFY TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC. OF ANY CHANGES IN THE DEPTH OF EXCAVATION.

F. REFERENCE DRAWINGS

ARCHITECTURAL DRAWINGS

	COMPANY NAME	DWG. #	DWG. TITLE	REV.	ISSUED FOR	DATE
1.	KIRKOR ARCHITECTS AND PLANNERS	DA1.2	SITE PLAN	01	ZBA SUBMISSION #1	NOV.16, 2020
		DA1.3	UNDERGROUND PARKING PLAN	01	ZBA SUBMISSION #1	NOV.16, 2020

No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

NOTES

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LICENSED PROFESSIONAL ENGINEER
S. HEIDARI
DEC-15-2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

tarra Engineering & Structural Consultants

Tarra Engineering & Structural Consultants Inc.
2800-14th Ave., Suite 300
Markham,ON L3R 0E4
Tel: (905) 470-8992
Fax: (905) 248-3267

Project

4274 DUNDAS STREE

BURLINGTON ONTARIO

Drawing Title

SHORING KEY PLAN
GENERAL NOTES & DETAILS

Drawn: C.L.	Scale: AS NOTED
Checked: L.Y.	Date: DEC 2020
Project No.: 20141	Drawing Number: SH0

NO.4178 RAWLINS COMMON

NO.4176 RAWLINS COMMON

NO.4174 RAWLINS COMMON

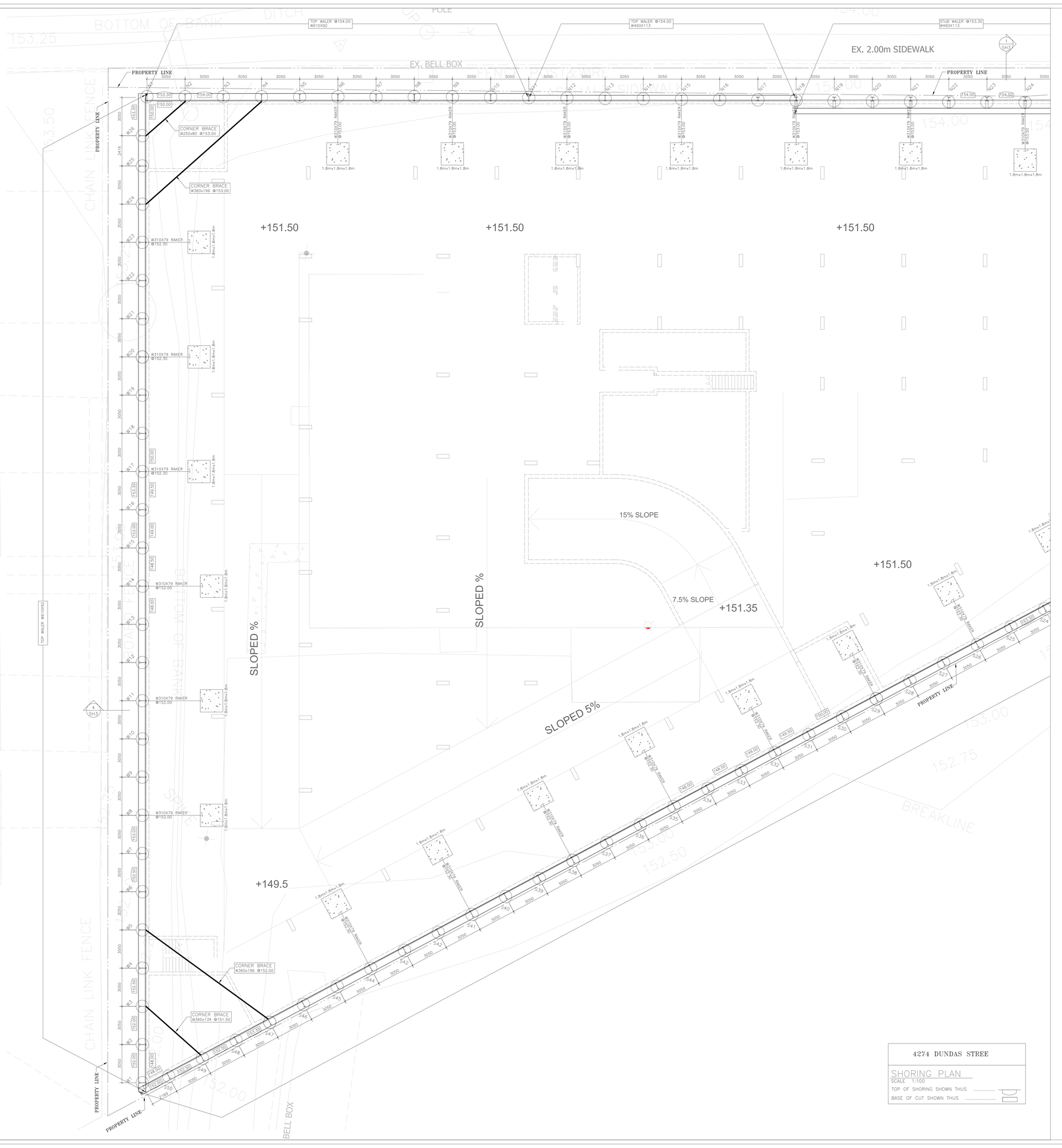
NO.4172 RAWLINS COMMON

NO.4170 RAWLINS COMMON

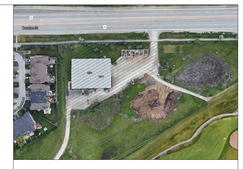
NO.4168 RAWLINS COMMON

NO.4166 RAWLINS COMMON

NO.4164 RAWLINS COMMON



FOR SHORING CONTINUATION, SEE DWG. SH2



KEY PLAN

TARRA LEGENDS

179.00	TOP OF SHORING/ GRADE
160.50	BASE OF EXCAVATION/ FOUNDATION
	SHORING PILES & CAISSONS
	COMBINED & SHORING STRUCTUARL CAISSONS
	INCLINOMETER LOCATIONS
OR	PROPOSED BUILDING
	EXISTING BUILDING
HydroV	EXISTING UTILITIES
BH1	BORE HOLE LOCATIONS
	EXISTING SHORING
EX. BUILDING	REQUESTED PIT LOCATIONS TO VERIFY EXISTING BUILDING/ FOUNDATION (IF REQUIRED)

TARRA UTILITY LEGENDS

GAS_MAIN	COLOR 30
SANITARY	COLOR 210
STORM	COLOR 90
WATER	COLOR 150
HYDRO	COLOR 12
TELE	COLOR 30
ROGERS	COLOR 210
LINE_TYPE_ORDI	COLOR 30
DEFPOINTS_LAYER	COLOR 149

No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

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LICENCED PROFESSIONAL ENGINEER
S. HEIDARI
DEC-15-2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

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2800-14th Ave., Suite 300
Markham,ON L3R 0E4
Tel: (905) 470-0952
Fax: (905) 248-3267

Project

4274 DUNDAS STREE

BURLINGTON ONTARIO

Drawing Title

SHORING PLAN

Drawn:	C.L.	Scale:	AS NOTED
Checked:	L.Y.	Date:	MAR 2020
Project No.	20141	Drawing Number	SH1

4274 DUNDAS STREE

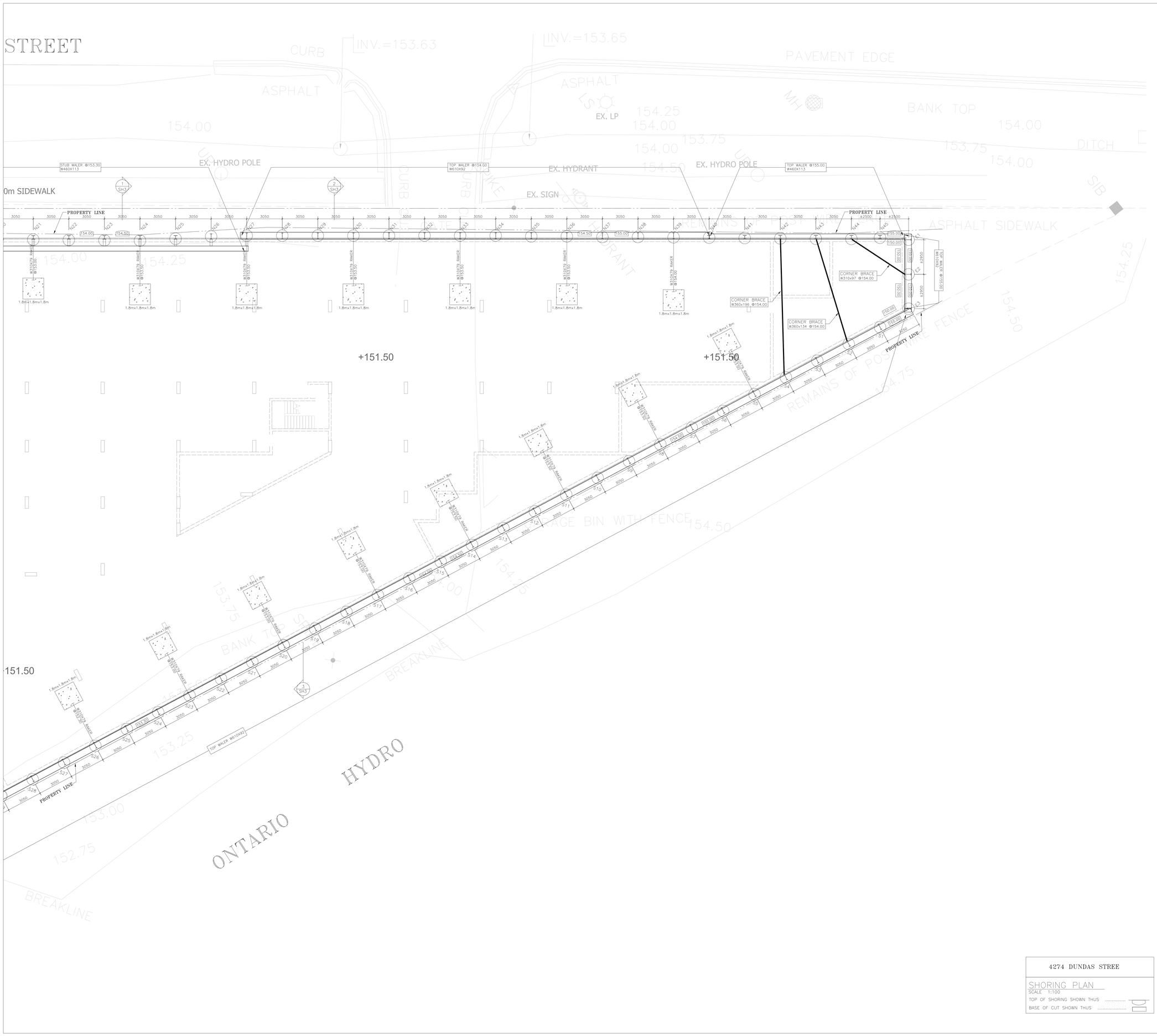
SHORING PLAN

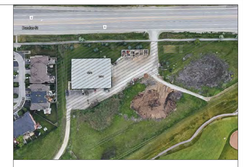
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TOP OF SHORING SHOWN THUS .....

BASE OF CUT SHOWN THUS .....

FOR SHORING CONTINUATION, SEE DWG. SH2





KEY PLAN

TARRA LEGENDS

179.00	TOP OF SHORING/ GRADE
160.50	BASE OF EXCAVATION/ FOUNDATION
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	COMBINED & SHORING STRUCTUARL CAISSONS
	INCLINOMETER LOCATIONS
OR	PROPOSED BUILDING
	EXISTING BUILDING
HydroV	EXISTING UTILITIES
BH11	BORE HOLE LOCATIONS
	EXISTING SHORING
EX. BUILDING	REQUESTED PIT LOCATIONS TO VERIFY EXISTING BUILDING/ FOUNDATION (IF REQUIRED)

TARRA UTILITY LEGENDS

WAS_MAIN	COLOR 30
SANITARY	COLOR 210
STORM	COLOR 150
WATER	COLOR 150
HYDRO	COLOR 12
TELE	COLOR 30
ROGERS	COLOR 210
LINE_TYPE_ORDY	COLOR 30
DEFPOINTS_LAYER	COLOR 149

4274 DUNDAS STREE

SHORING PLAN

SCALE 1:100

TOP OF SHORING SHOWN THUS .....

BASE OF CUT SHOWN THUS .....

No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

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LICENSED PROFESSIONAL ENGINEER
S. HEIDARI
DEC-15-2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

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2800-14th Ave., Suite 300
Markham,ON L3R 0E4
Tel: (905) 470-8952
Fax: (905) 248-3267

Project

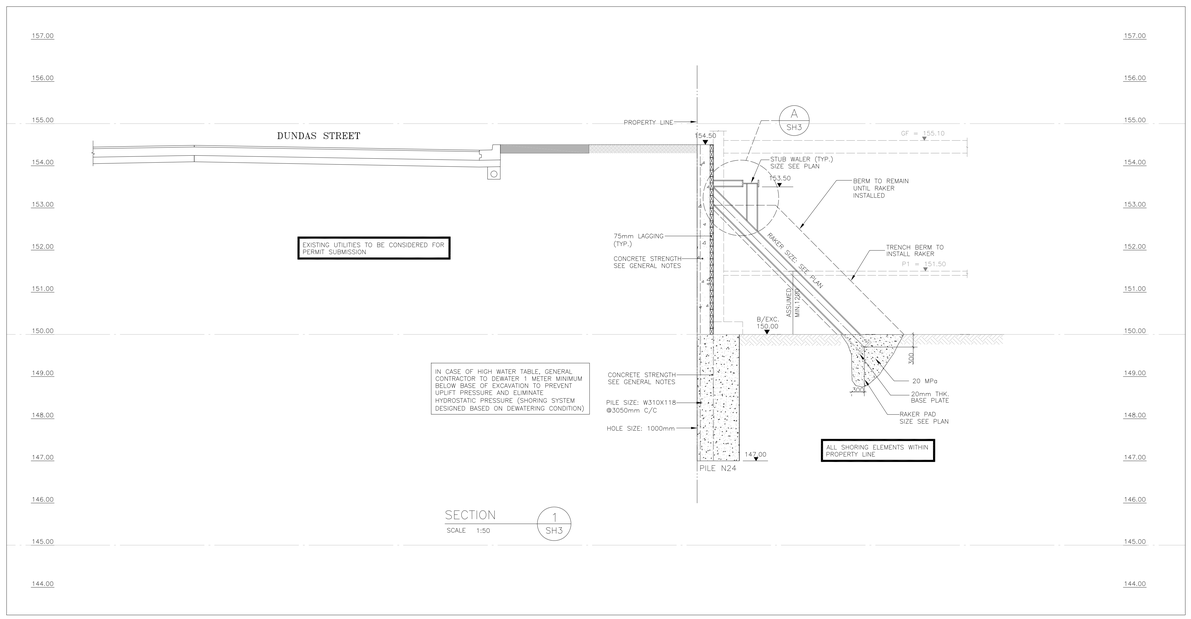
4274 DUNDAS STREE

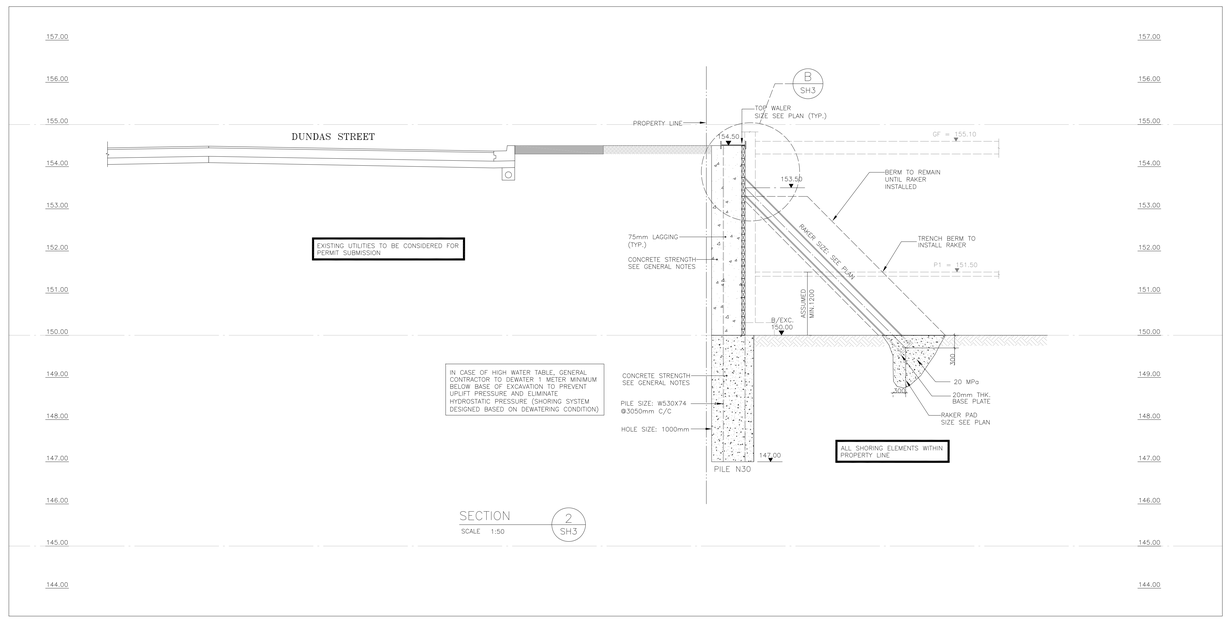
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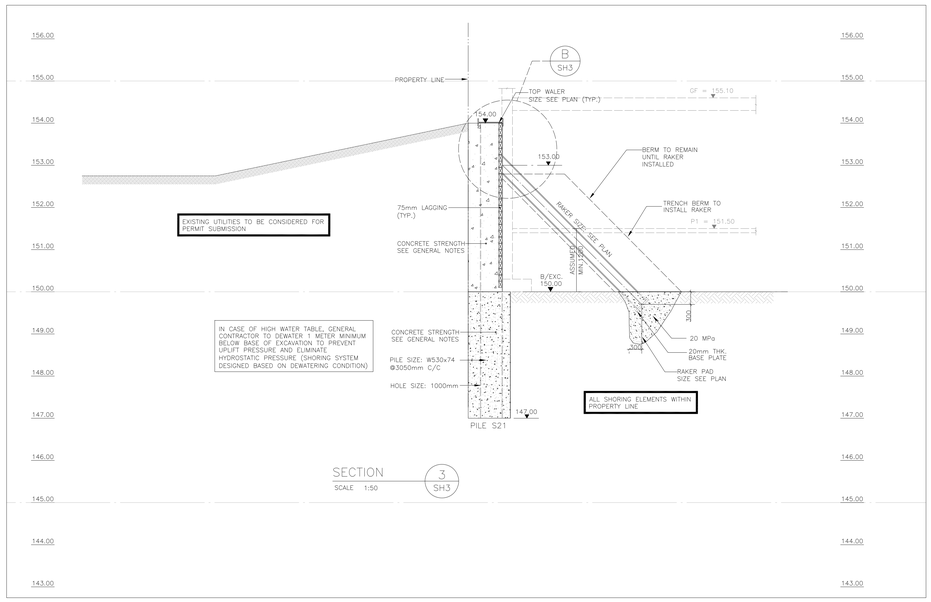
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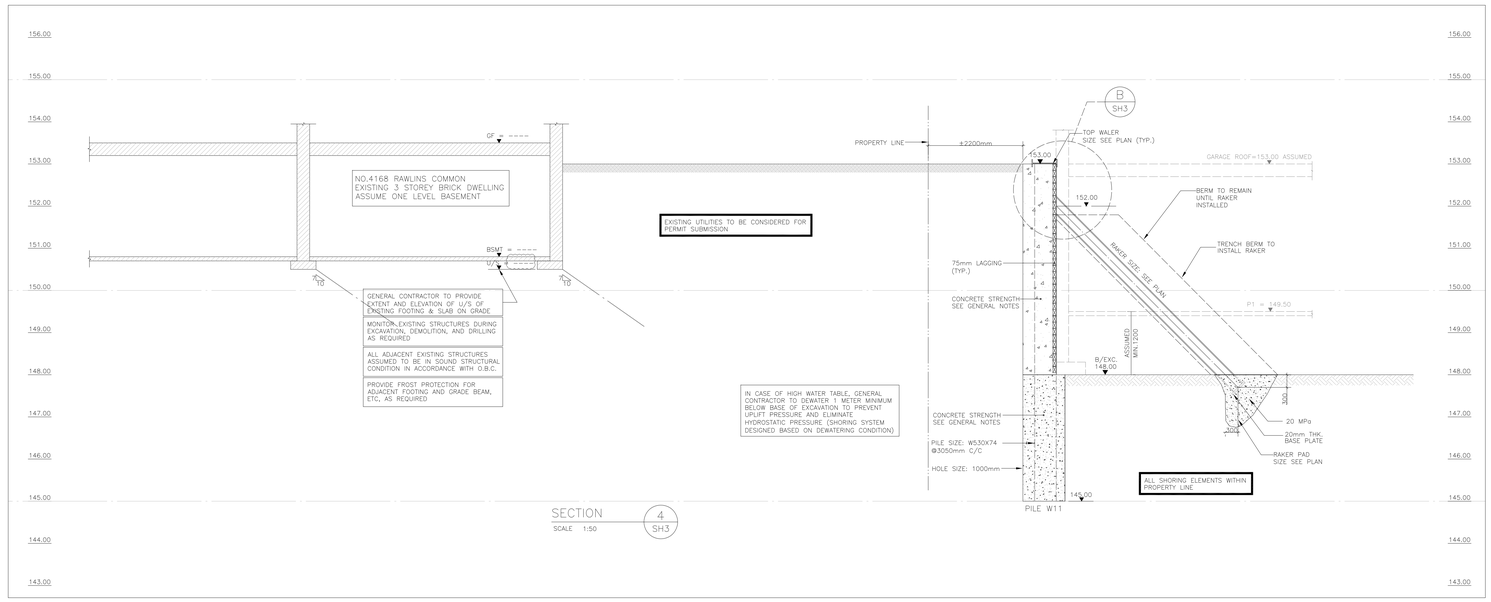
SHORING PLAN

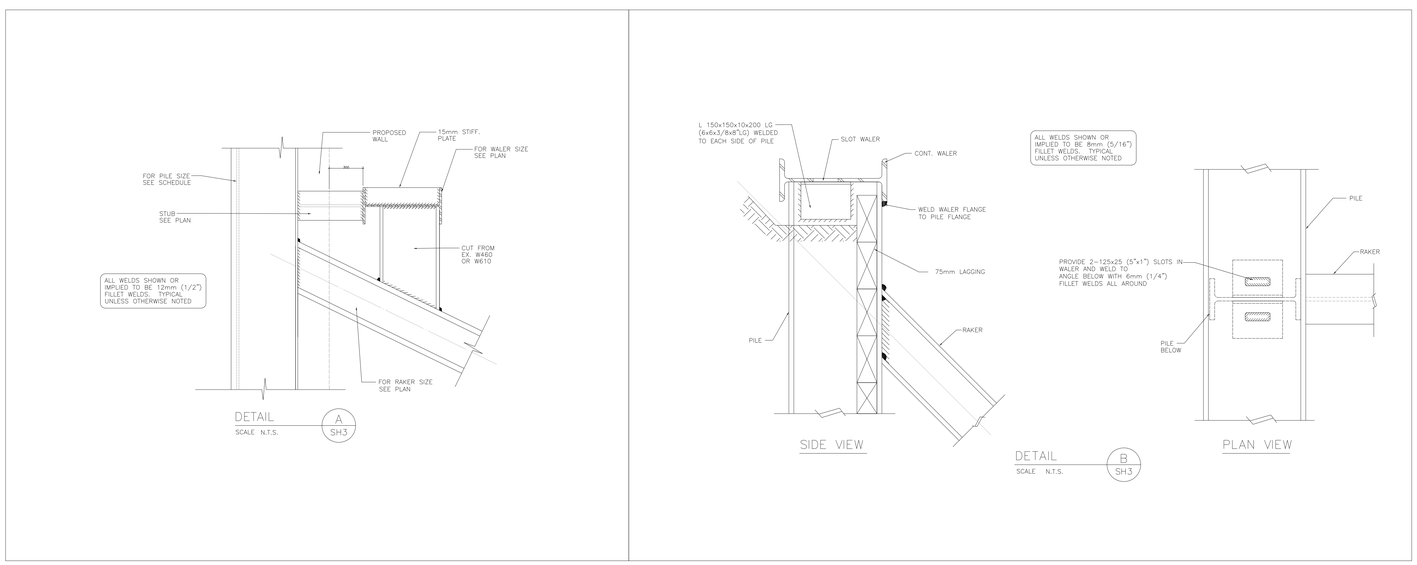
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Checked:	L.Y.	Date	MAR 2020
Project No.	20141	Drawing Number	SH2











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Stamp

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Project

4274 DUNDAS STREE

BURLINGTON ONTARIO

Drawing Title

SECTIONS & DETAILS

Drawn:	C.L.	Scale	AS NOTED
Checked:	L.Y.	Date	DEC. 2020
Project No.	20141	Drawing Number	SH3 1