Halton District School Board

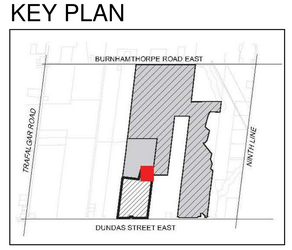
OAKVILLE # 3 ELEMENTARY SCHOOL AND CHILDCARE FACILITY

1235 WHEAT BOOM DRIVE, OAKVILLE ON

JANUARY 2023

HDSB TENDER NO. RFT 23-007

KEY PLAN



HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-6290

KEI
KALON ENGINEERING INC.
875 Main Street W, Unit 3, Hamilton, ON L8S 4P9
Phone: 905-333-9119
Email: info@kaloneng.ca
Website: kaloneng.ca

DEI Consulting Engineers
MECHANICAL, ELECTRICAL, AQUATIC
(519) 725-3555
55 Northland Rd.
Waterloo, ON N2V 1Y8
www.deiassociates.ca

TRAFALGAR ENGINEERING
#1-481 SHEPPARD ROAD, OAKVILLE, ON, L6K 3W6
www.trafalgareng.com

Strategy 4
- Development Consulting
- Urban Transformation
- Urban Design
- Urban Engineering
2620 Bristol Circle, Suite 100
Oakville, On L6H 6Z7
t: (905) 829-2544

DISANO SPRINKLER DESIGN
80 Tiverton Ct, Suite No. 700
Markham, ON, L3R 0G4

ARCHITECTURAL

STRUCTURAL

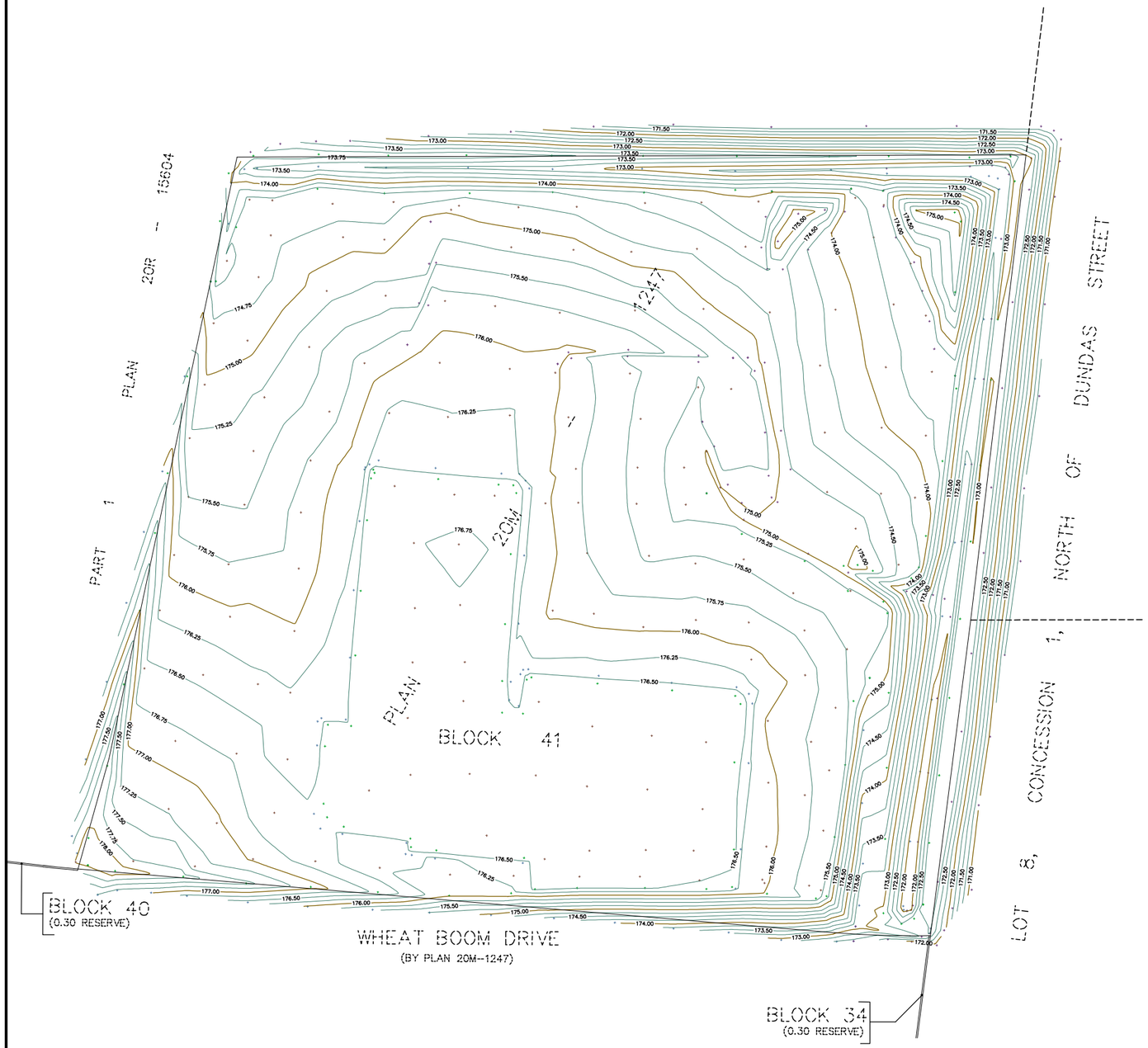
MECHANICAL

ELECTRICAL

SET No.

PROJECT NUMBER

22104



SKETCH SHOWING ELEVATIONS FOR ENGINEER'S USE

SCALE 1:1000

10m 5m 0m 10m 20m 30m 40 metres

R-PE SURVEYING LTD., O.L.S.

METRIC

BENCHMARK NOTE

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO TOWN OF OAKVILLE VERTICAL BENCH MARK NUMBER 290 HAVING AN ORTHOMETRIC ELEVATION OF 174.861 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).

CUT CROSS LOCATED IN NORTH-WESTERLY CORNER OF CONCRETE BASE OF TRASNFORMER CABINET BETWEEN LOTS 152 AND 153, PLAN 20M-1143, 41 M EAST OF THE INTERSECTION OF PRESERVE DRIVE AND SAWMILL STREET.

CAUTION

THIS IS NOT A PLAN OF SURVEY AND SHALL NOT TO BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.

NOTES

LINE WORK TAKEN FROM PLAN 20M-1247.

FIELD OBSERVATIONS

THE FIELD OBSERVATIONS REPRESENTED ON THIS PLAN WERE COMPLETED ON THE 22th DAY OF NOVEMBER, 2022

R-PE SURVEYING LTD.
ONTARIO LAND SURVEYORS
643 Chrislea Road, Suite 7
Woodbridge, Ontario L4L 8A3
Tel.(416)635-5000 Fax (416)635-5001
Tel.(905)264-0881 Fax (905)264-2099
Website: www.r-pe.ca

DRAWN: S.L.

JOB No. 18-286 CAD FILE No. 18286tp12

SITE & BLDG. STATS

ZONING : I - 71 H31, H32, H33 INSTITUTIONAL

OCCUPANCY: Public Elementary School
Kindergarten - Grade 8

LOT AREA (28,567m²) 2.856 HECTARES
7.06 ACRES

GROSS FLOOR AREA

GROUND FLOOR	3,170 sq.m.	
SECOND FLOOR	2,077 sq.m.	
THIRD FLOOR	1,738 sq.m.	
TOTAL SCHOOL GFA	6,985 sq.m.	(75,186 sq.ft.)
CHILD CARE	680 sq.m.	
TOTAL BUILDING GFA	7,665 sq.m.	**(82,505 sq.ft.)**
TOTAL BUILDING AREA (FOOTPRINT)	3,850 sq.m.	(41,441 sq.ft.)

SNOW STORAGE (15% MINIMUM HARD SURFACE AREA)
HARD SURFACE AREA = 11,230 m2
MIN. SNOW STORAGE AREA = 1,685 m2

SNOW STORAGE AREA PROVIDED = 1,696 m2

PARKING STATISTICS	**MAX**	**MIN**	**PROVIDED**
2.6m x 5.2m min. size with 7.0m isles			
	117	39	80 *(39 class @ 2 = 78)*
3 per classroom max., 1 per classroom min. incl. Lib & Gym. *(39 class @ 3 = 117 max)*			
Portable Classrooms (3 per classroom max.) (1 per classroom min.) *(18 portable classrooms) (18 class @ 3 = 54 max)*	54	18	36 *(18 class @ 2 = 36)*
Daycare (676 sq.m.) 1.0 per 18.0 m2 net floor area min. (no maximum)	38	38	38
TOTAL PROVIDED =			154
BARRIER FREE SPACES (4 spaces for 76 - 100 required) included in above total count	4		4
Bicycle Parking Spaces required at a rate of 7% of automobile parking spaces, as required by the Bylaw, incl. a min of 5 Bicycle Parking Spaces-Visitor	reqd 11		49

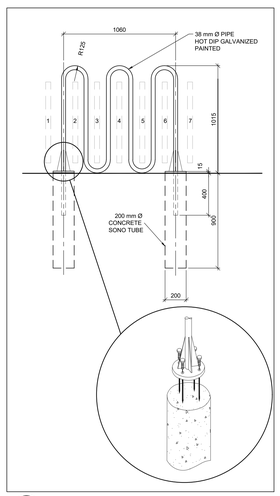
SITE STATISTICS per Zoning By-law 2009-189 amend. May 2022

LEGAL DESCRIPTION: Part of Lot 1, Concession 9
ZONING: I - 71 H31, H32, H33 INSTITUTIONAL

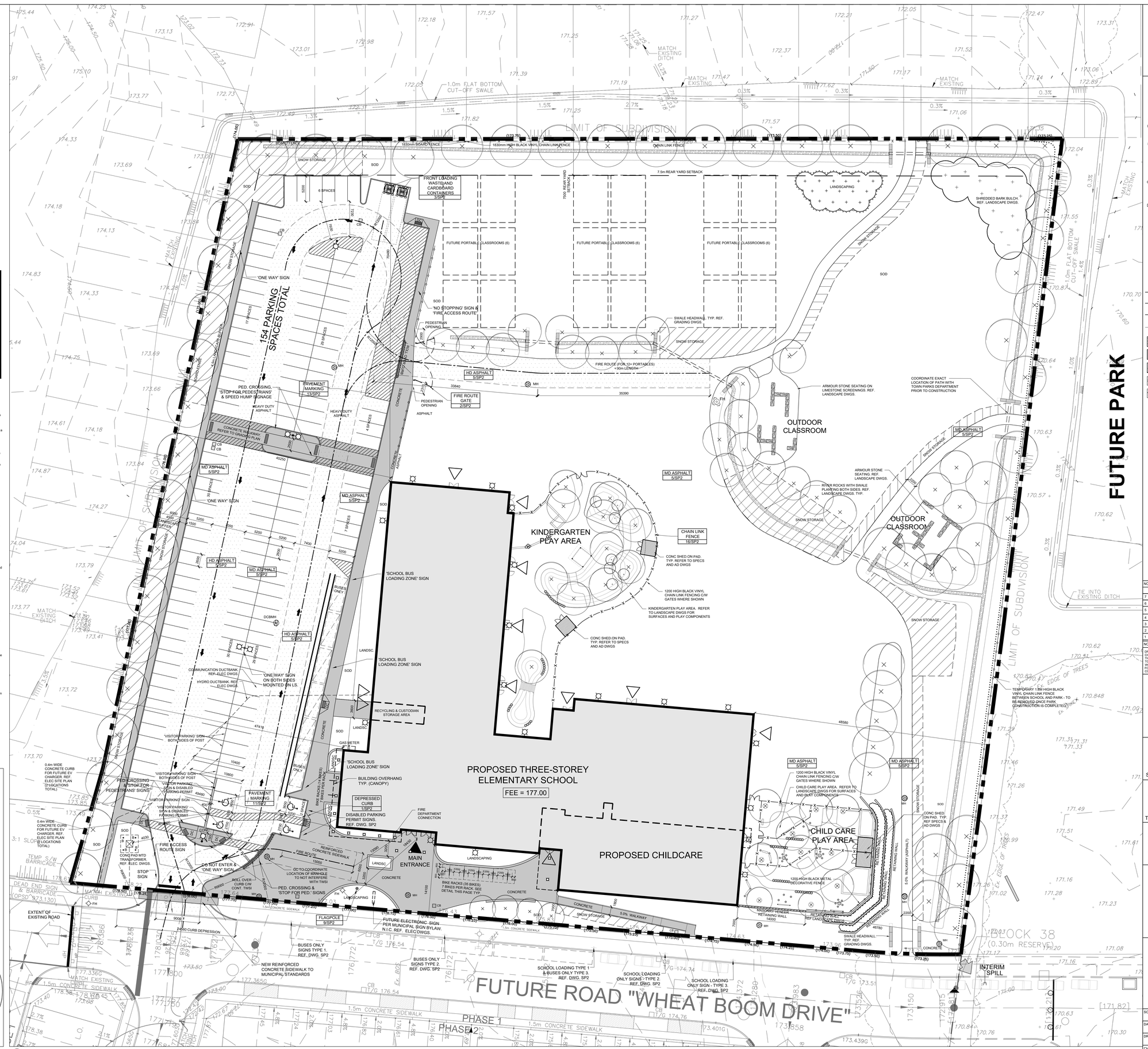
	REG.	PROVIDED
MAX. FRONT YARD SETBACK	SHALL NOT APPLY	7.00 m
INTERIOR SIDE YARD SETBACK - W	1.5 m MIN.	45.25 m
INTERIOR SIDE YARD SETBACK - E	1.5 m MIN.	48.58 m
REAR YARD SETBACK	7.5 m MIN.	70.48 m
BUILDING HEIGHT	0 m - 18.0 m	14.04 m
FLOOR SPACE INDEX	0.20 min. (n/a)	0.268

GENERAL NOTES

1. All exterior lighting will be directed onto the site and will not infringe on adjacent properties.
2. Grades will be met with 33% maximum slope at the property lines and within.
3. Parking spaces reserved for the physically handicapped must be identified by appropriate signage, installed at the applicant's expense, in accordance with the designated specifications of City Bylaws
4. There are no underground parking structures on this project.
5. The structural design of any retaining wall over 0.6 metre in height or any retaining wall located on a property line is to be shown on the Site Grading Plan for this project and is to be approved by a Structural Engineer
6. Location of signs indicating fire routes shall be to the Town of Oakville Fire Department approval.
7. All roads and driveways which are to be designated as fire routes shall be so designated as per the Town's By-law, prior to occupancy of the building.
8. Fire route access shall be constructed of heavy duty asphalt surface material or reinforced concrete conforming to municipal standards and have a change of gradient not more than 1 in 12.5 over a minimum distance of 15 m.
9. Standard parking spaces shall be 2.6m x 5.2m min. hard surface area.
10. Accessible parking spaces shall be 3.65m x 5.2m min. hard surface area with access isles where indicated and painted decal and signage per Town's By-Law requirements.
11. Continuous concrete curbing typical throughout parking areas. All curbs to be 150mmV6" high barrier type poured concrete.
12. All surface drainage shall be self contained and collected and discharged at a location to be approved prior to issuance of a building permit. Existing drainage pattern to be maintained.
13. At the entrances to the site, the municipal curb and sidewalk will be continuous through the driveway. The driveway grade will be compatible with the existing sidewalk and a curb depression will be provided for each entrance, as part of this contract.
14. The tops of any curbs bordering the driveways within the municipal boulevard will be flush with the municipal sidewalk and road curb.
15. The portions of the driveways within the municipal boulevard will be paved as part of this contract.
16. Sedimentation control measures as per Town's standards are to be implemented during construction.
17. All underground service materials and installations to be in accordance with the latest standards and codes.
18. Road occupancy permit must be obtained by Contractor 48 hours prior to commencing any works within the municipal road allowance.
19. Pedestrian walkways are to be minimum width of 1.2m. The width of a walkway abutting parking spaces is 1.8m minimum.
20. All catchbasins manholes to have a minimum 0.3 sump and top as per municipal standards.
21. All storm sewer materials and construction methods must correspond to current municipal standards and specifications.
22. If building construction is interrupted and/or inactivity exceeds 30 days, stripped/bare areas will be stabilized by seeding.
23. All excess excavated material will be removed from site.
24. All above ground utilities are to be offset a minimum distance of 1500mm from all proposed driveways.
25. The contractor is required to supply all labour, materials and equipment for the installation of required signage, temporary or permanent, as illustrated in the site plan drawings and in accordance with the Ontario Traffic Manual and Town of Oakville.
26. Refer to AD Drawing 100 for weeping tile required at perimeter and interior of building at footing levels. AD 100 to be read in conjunction with Site Servicing Drawing and Landscape Drawings for additional weeping tile requirements.
27. Refer to Drawing SP2 for site plan details. This drawing to be read in conjunction with site landscape, grading and civil drawings.
28. Refer to AD drawings for exterior signage and additional site plan details. This drawing to be read in conjunction with site landscape, grading and civil drawings.
29. SITE PLAN FILE NUMBER 1309.001/01



2 / SP1 *BICYCLE RACK* SCALE: NTS



1 / SP1 *SITE PLAN* SCALE: 1 : 300

PROJECT NORTH / TRUE NORTH

LEGEND

BB	BELL BOX
DC	DEPRESSED CURB C/W TACTILE INDICATOR. REFER TO AD DWGS AND SPECIFICATIONS
FC	FLUSH CURB
dia.	DIAMETER
F.F.E.	FINISHED FLOOR ELEVATION
SIB	STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR
P	REGISTERED PLAN 65M-3427
PIV	POST INDICATOR VALVE
M	MEASURED
CONC.	CONCRETE
	MAIN SCHOOL ENTRANCE
	SECONDARY SCHOOL ENTRANCE
CB	DENOTES DOUBLE CATCHBASIN
CB	DENOTES SINGLE CATCHBASIN
HMH	DENOTES HYDRO MANHOLE
MH	DENOTES MANHOLE
SAN MH	DENOTES SANITARY MANHOLE
STM MH	DENOTES STORM MANHOLE
LS	DENOTES LIGHT STANDARD
H	DENOTES FIRE HYDRANT
WV	DENOTES WATER VALVE
	DENOTES BENCH MARK
	CONCRETE SHED. REFER TO SPECS. REFER TO DRAWING FOR TOTAL QUANTITY
LS	PROPOSED LIGHT STANDARD (REFER TO ELECTRICAL DRAWINGS FOR TYPE AND NUMBER OF HEADS)
	BLACK VINYL CHAINLINK FENCE (HEIGHT AS INDICATED)
	BOARD FENCE (HEIGHT AS INDICATED)
	BLACK DECORATIVE METAL FENCE (HEIGHT AS INDICATED)
	WEEPING TILE (NOT SHOWN. SEE GEN NOTE #26)
	HEAVY DUTY ASPHALT
	CONCRETE WALKWAY OR PAD
	LIMESTONE SCREENING WALKWAY OR PAD. REF TO LANDSCAPE
	TWSI - TACTILE WARNING SURFACE INDICATOR. REF SPECS.
	SNOW STORAGE AREAS

NO	REVISIONS	DATE
7	ISSUED FOR TENDER	23 01 04
6	ISSUED FOR SPA SITE PLAN APPLICATION CIRCULATION	22 11 03
5	ISSUED FOR BUILDING PERMIT	22 08 30
4	ISSUED FOR 2ND SITE PLAN APPLICATION CIRCULATION	22 08 26
3	ISSUED FOR SITE PLAN APPROVAL & BUILDING PERMIT APPLICATION	22 05 31
2	ISSUED FOR RE-ZONING APP.	22 03 31
1	ISSUED FOR SPA PRE-CONSULT	22 02 17

NO.	ISSUED	DATE

ONTARIO ASSOCIATION OF ARCHITECTS — Dec. 19/22 — PRISCILLA LADOUCEUR LICENCE 6053

CERTIFICATE OF PRACTICE #4292

OAKVILLE #3 PUBLIC SCHOOL

SP 1309.001/01

1235 WHEAT BOOM DRIVE OAKVILLE, ON

LEGAL DESCRIPTION:

Block 41 Registered Plan 20M-1247
TOWN OF OAKVILLE, REGION OF HALTON

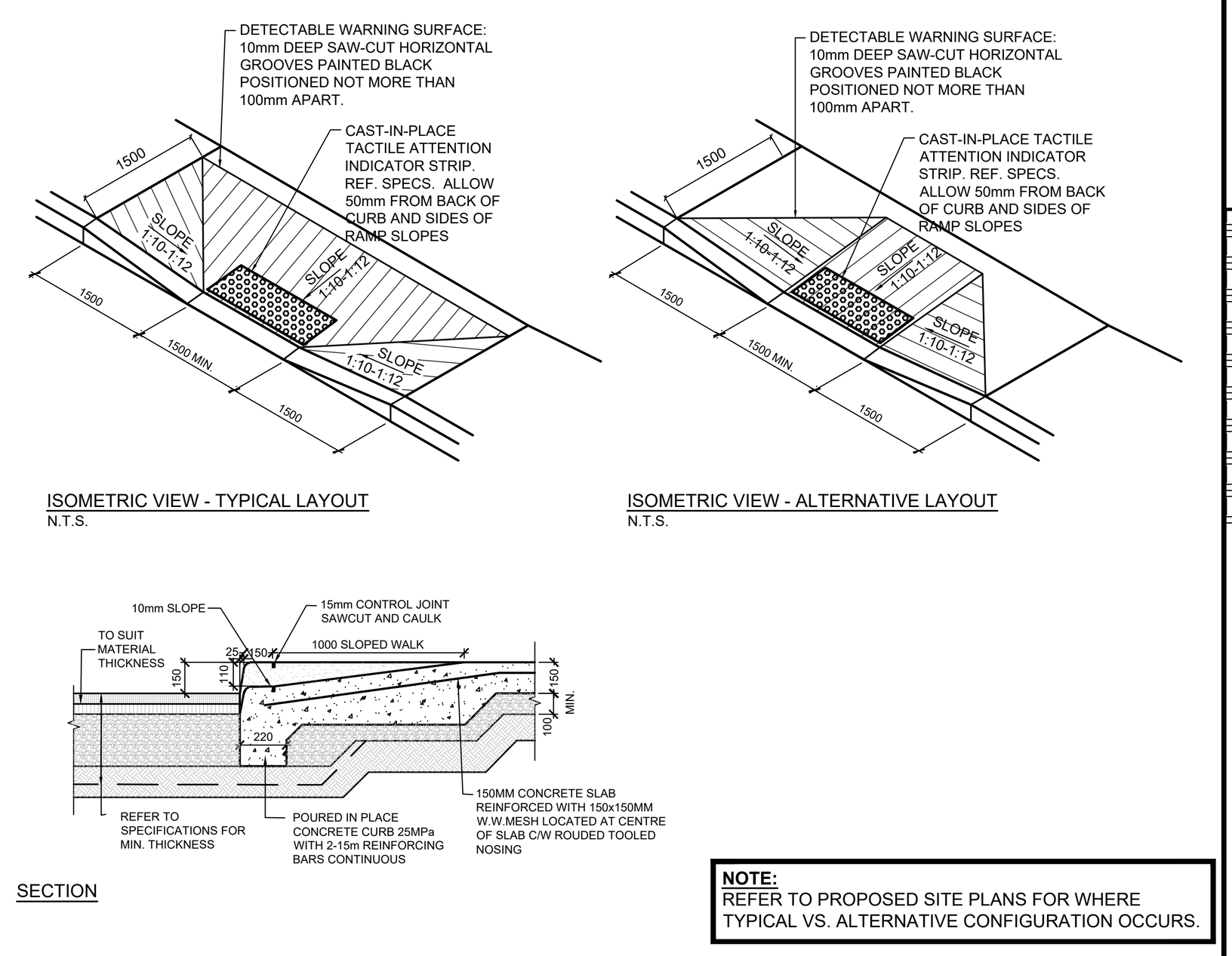
TENDER NO. RFT 23-007

HALTON DISTRICT SCHOOL BOARD
J.W.SINGLETON EDUCATION CENTRE
2050 GUELPH LINE
BURLINGTON, ON., L7R 3Z2
TEL. (905) 335-3663
FAX (905) 335-9802

SITE PLAN

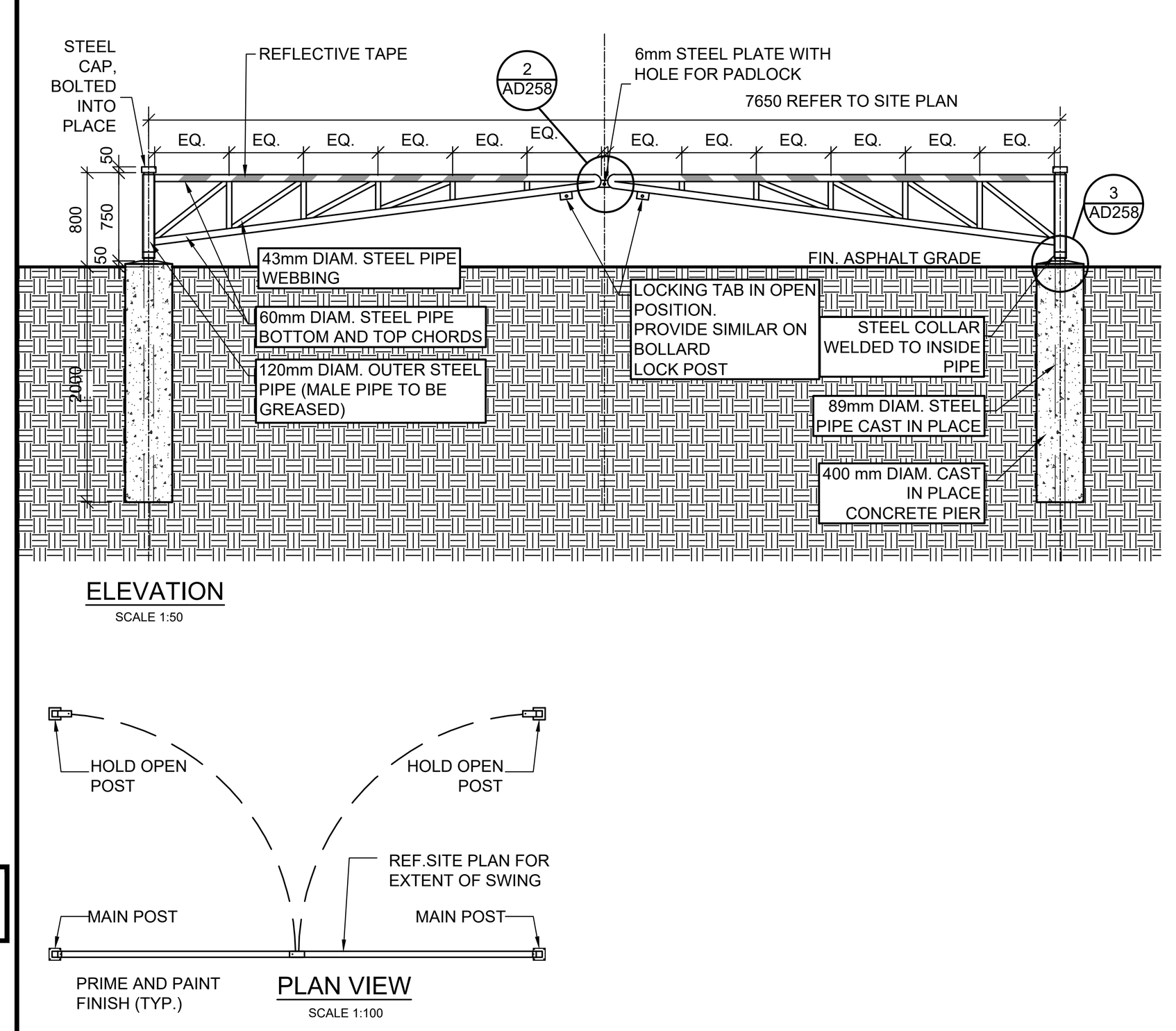
HOSSACK & ASSOCIATES ARCHITECTS
6-2100 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 3M8
Tel (905) 607-8284 Fax (905) 607-8290

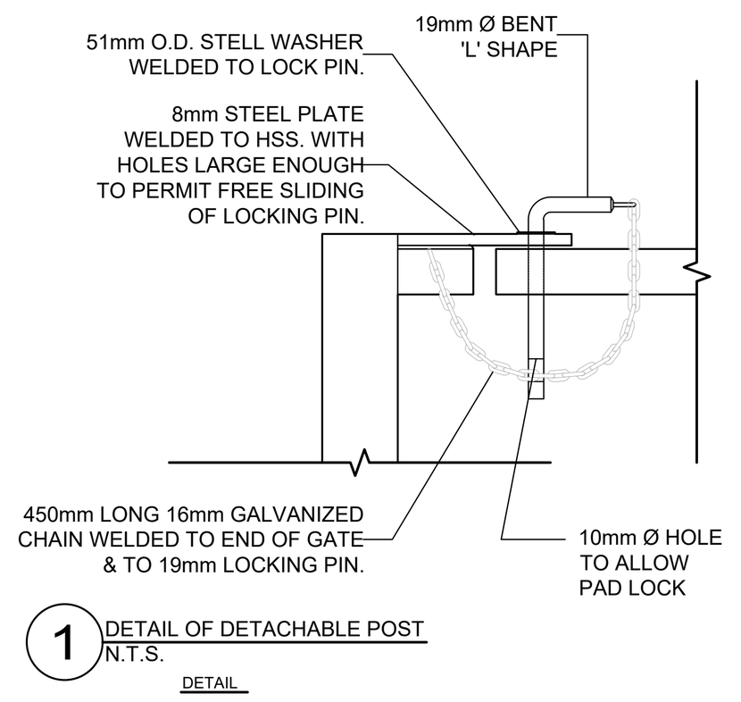
SCALE 1:250	PROJECT 22104
DATE 22 11 03	
DRAWN PL/CC	DRAWING SP1
CHECKED PL	
PRINT DATE	22 12 09
REVIT FILE	22104 HDSB Oak3Y22



NOTE:
REFER TO PROPOSED SITE PLANS FOR WHERE TYPICAL VS. ALTERNATIVE CONFIGURATION OCCURS.

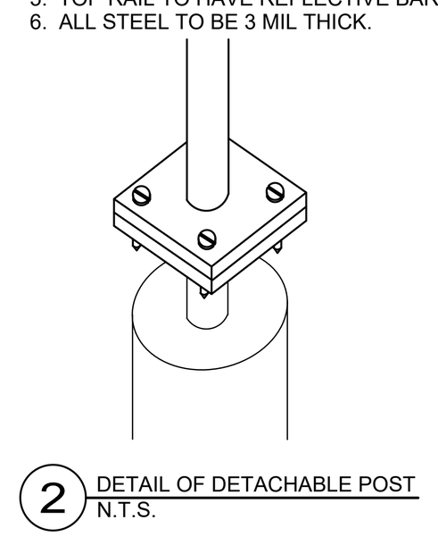
1 DEPRESSED CURB DETAIL (DC)
SP2 SCALE N.T.S





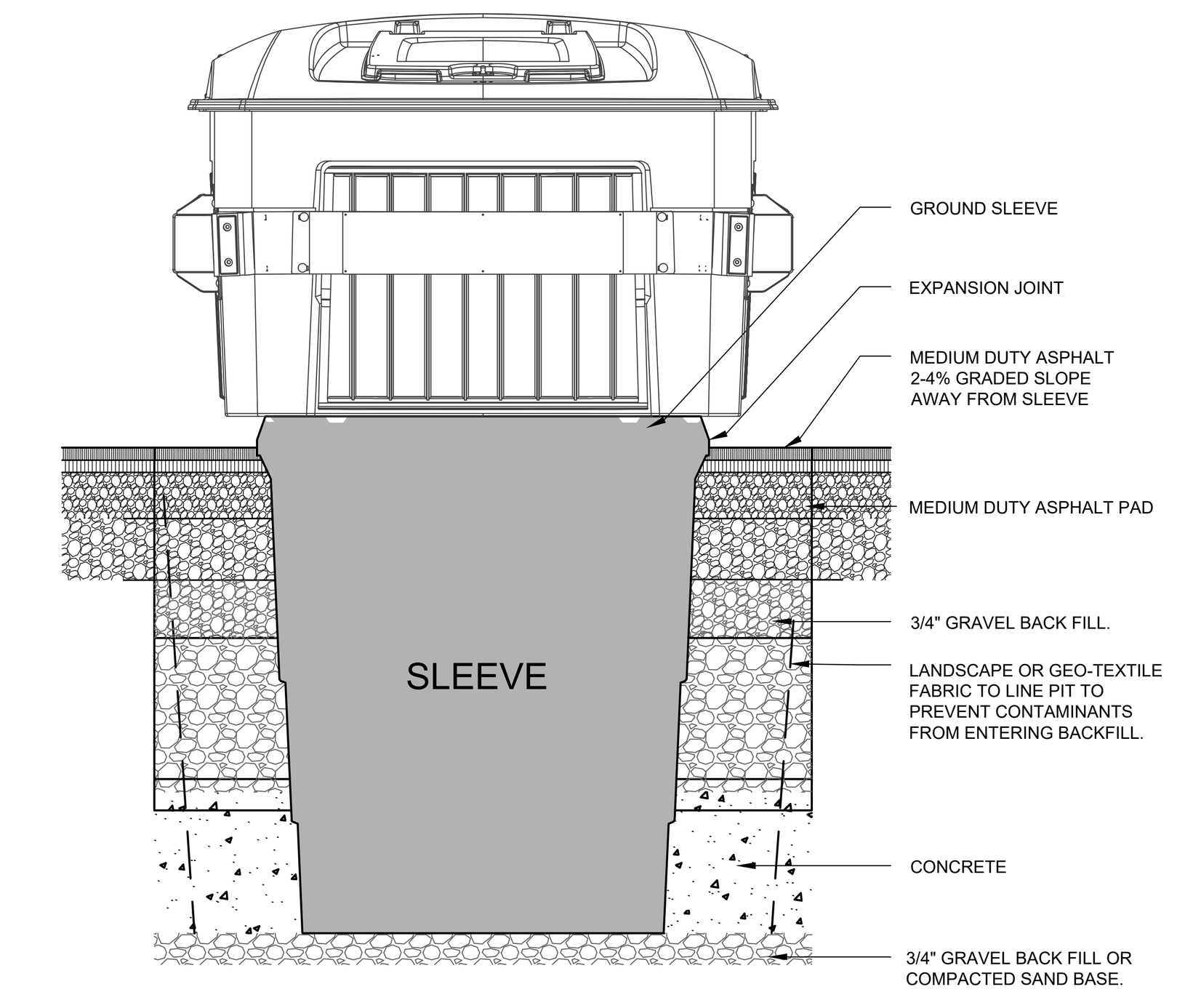
1 DETAIL OF DETACHABLE POST
N.T.S.

NOTES:
1. GATE SYSTEM TO BE ENTIRELY OF GALVANIZED STEEL.
2. ALL WELD JOINTS TO BE CONTINUOUS.
3. TOP OF CONCRETE FOOTING TO BE LEVEL WITH SURFACE OF THE EXISTING GRADE.
4. ALL GATES TO BE LOCKED DURING CURING STAGE, WITH LOCKS SUPPLIED BY THE D-PCDSB.
5. TOP RAIL TO HAVE REFLECTIVE BARRICADE TAPE
6. ALL STEEL TO BE 3 MIL THICK.



2 DETAIL OF DETACHABLE POST
N.T.S.

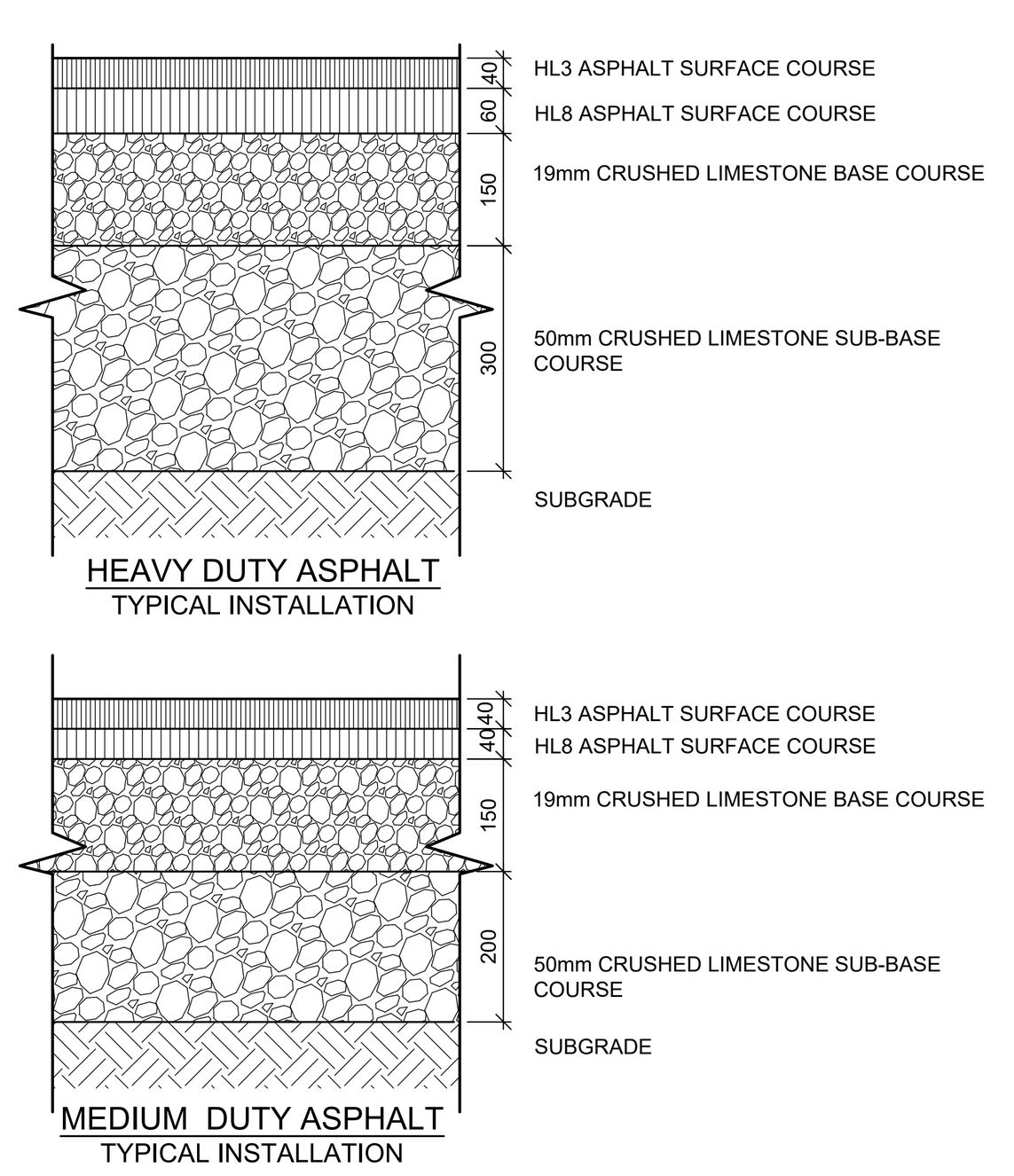
2 FIRE ROUTE GATE
SP2 SCALE AS NOTED



ANCHOR PIN NOTE:
PLACE ANCHOR PIN (X8) IN HOLES AROUND GROUND SLEEVE PRIOR TO POURING CONCRETE. ENSURE THERE IS A MIN 150MM EMBEDMENT FOR ANCHOR PINS ANCHOR PINS ARE TO HAVE A MIN 100MM OF COVERAGE ABOVE AND BELOW

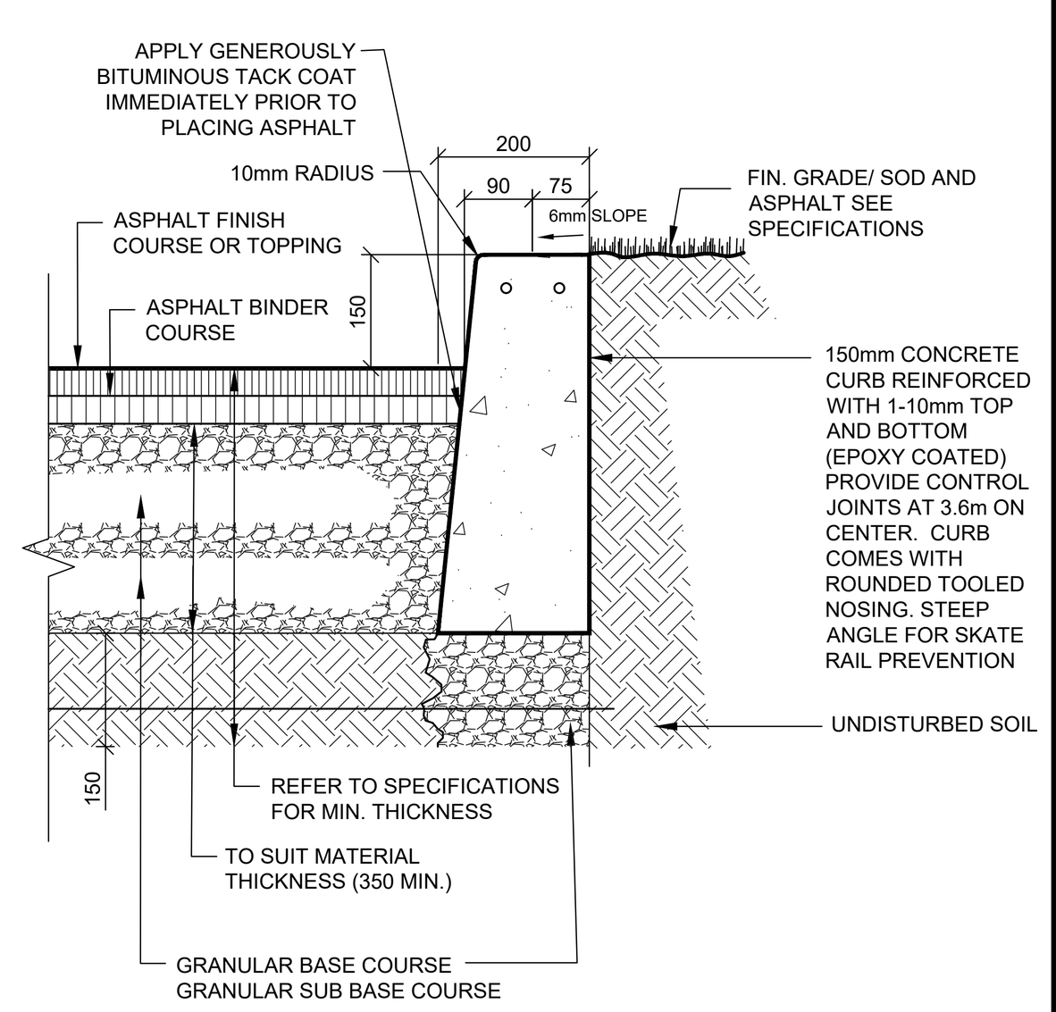
REFER TO SITE PLAN FOR QUANTITY
REFER TO SPECIFICATIONS FOR TYPE / MODEL

3 WASTE & CARDBOARD CONTAINER
SP2 SCALE 1:20

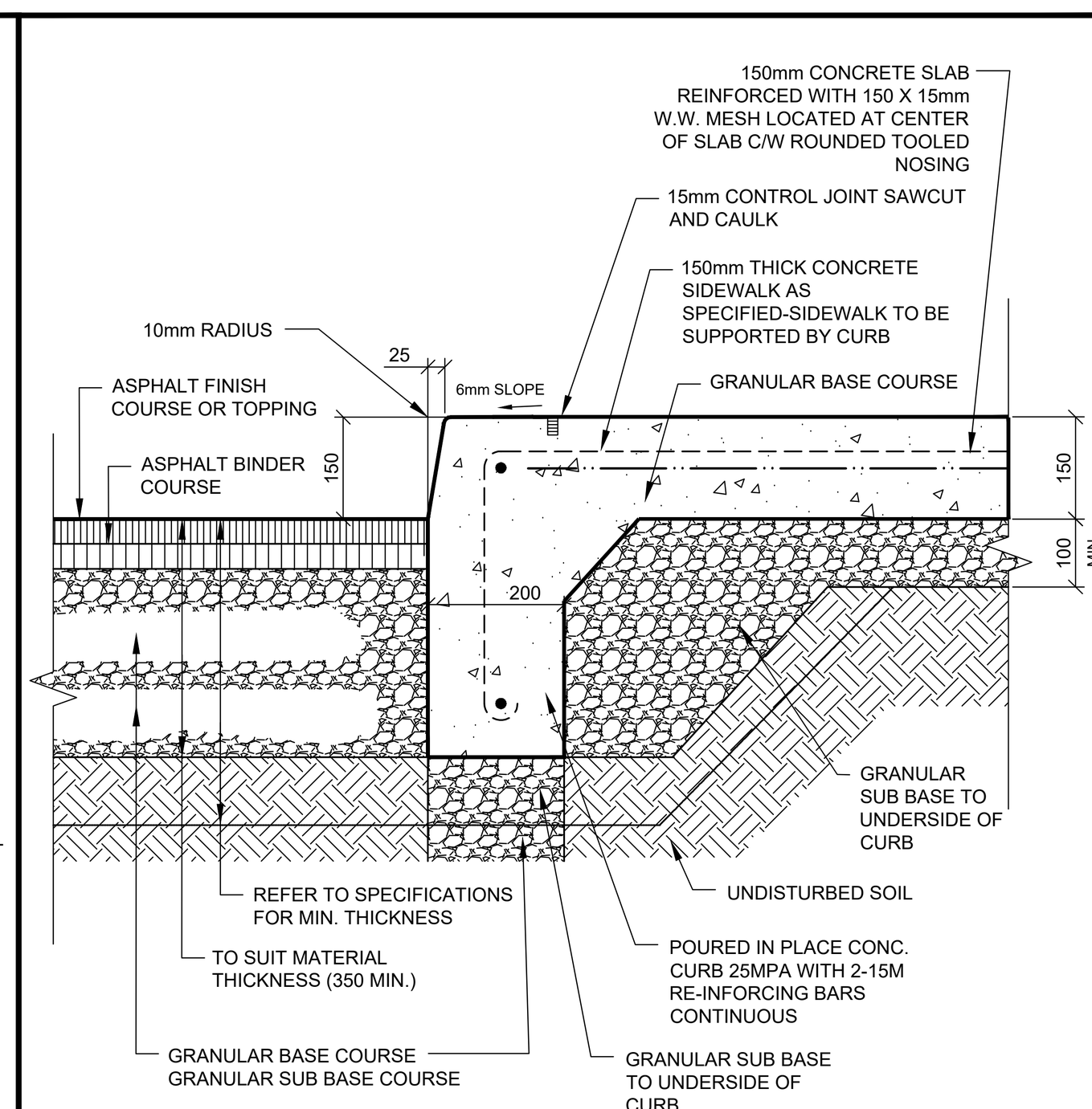


NOTE:
REFER TO GEOTECHNICAL REPORT TO CONFIRM THAT ADDITIONAL DEPTH IS NOT REQUIRED AND THAT DEPTHS/MATERIALS OF ASPHALT AND SUBGRADE COMPONENTS MATCH THESE MINIMUM STANDARDS.

5 ASPHALT DETAIL
SP2 SCALE N.T.S

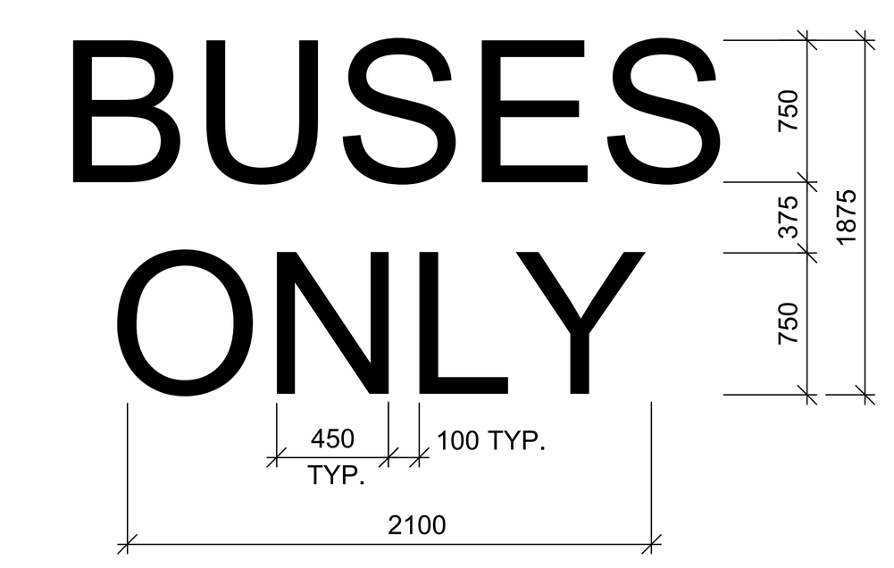


6 CONCRETE CURB AT SOD
SP2 SCALE 1:10

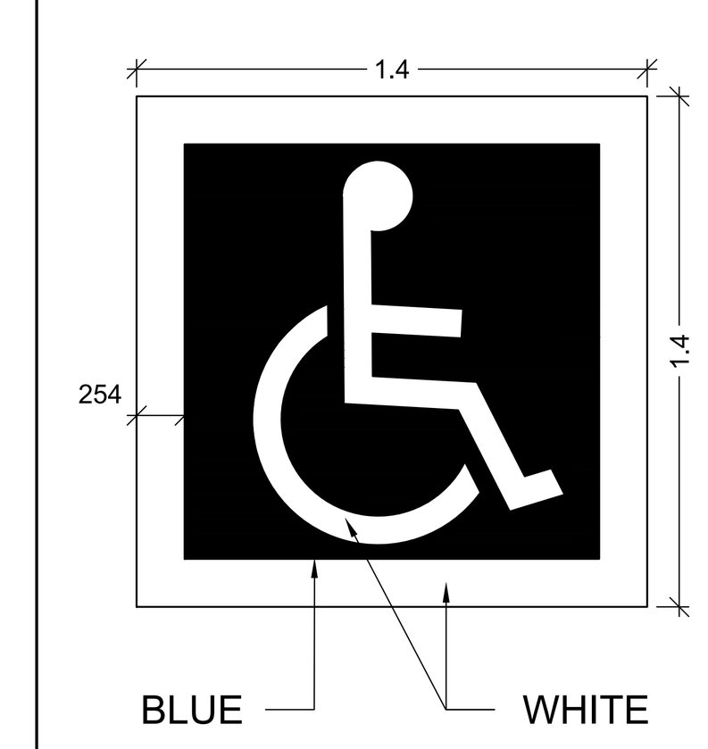


7 CONCRETE CURB AT SIDEWALK
SP2 SCALE 1:10

MESSAGE 1



MESSAGE 2

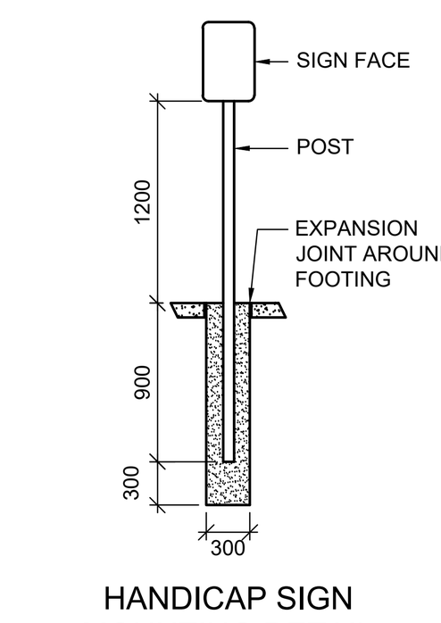


TYPICAL LETTER DIMENSIONS:
FONT COLOUR: YELLOW
FONT TYPE: HELVETICA
THICKNESS: 75mm (3")
HEIGHT: 750mm (29 1/2")
WIDTH: 450mm (18")

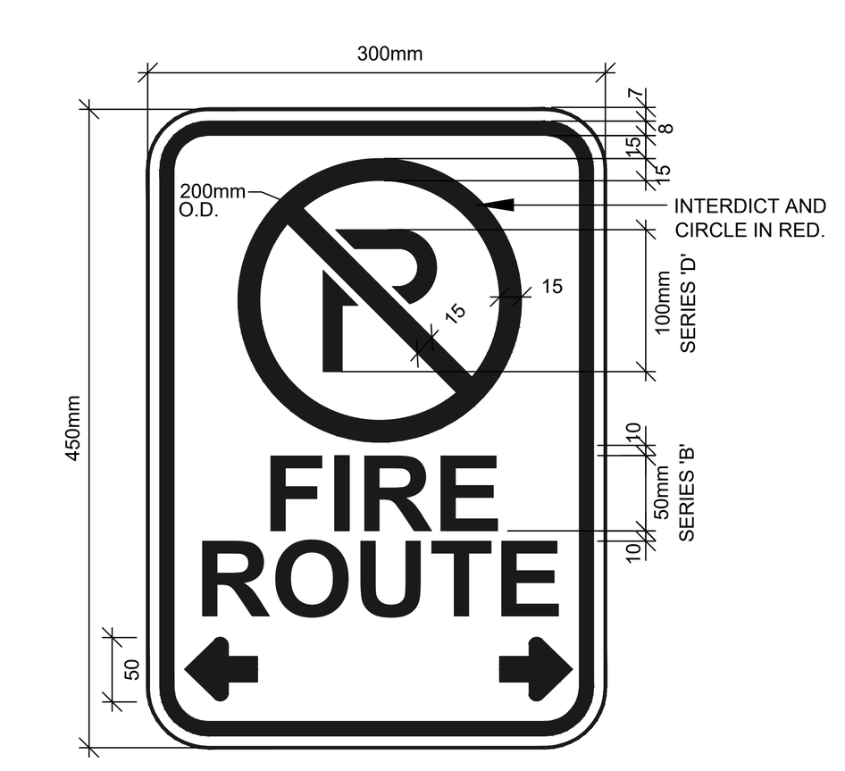
11 PAVEMENT PARKING MESSAGES
SP2 SCALE N.T.S

HANDICAP SIGN REQUIREMENTS;
1. ALL HANDICAP PARKING STALLS SHALL BE DESIGNATED BY SIGNAGE AS PER MUNICIPAL STANDARDS.
2. ONE SIGN PER BAY IS REQUIRED UNLESS A ROW OF SEVERAL BAYS IS PROVIDED IN WHICH CASE, AS SIGN AT EACH END OF THE ROW W/APPRORIATE DIRECTIONAL ARROWS.
3. THE REQUIRED SIGN(S) SHALL BE MOUNTED AT LEAST 600mm AND NOT MORE THAN 2000mm FROM THE FACE OF THE CURB AT A HEIGHT OF 1200mm ABOVE THE TOP ELEVATION OF THE CURB.
4. SIGN(S) MUST NOT OBSTRUCT THE SIDEWALK. WHERE AN OBSTRUCTED BUILDING FACE IS NO MORE THAN 2.0m FROM THE FACE CURB AT THE HANDICAP BAY, THE REQUIRED SIGN(S) MAY BE MOUNTED ON THE BUILDING FACE.

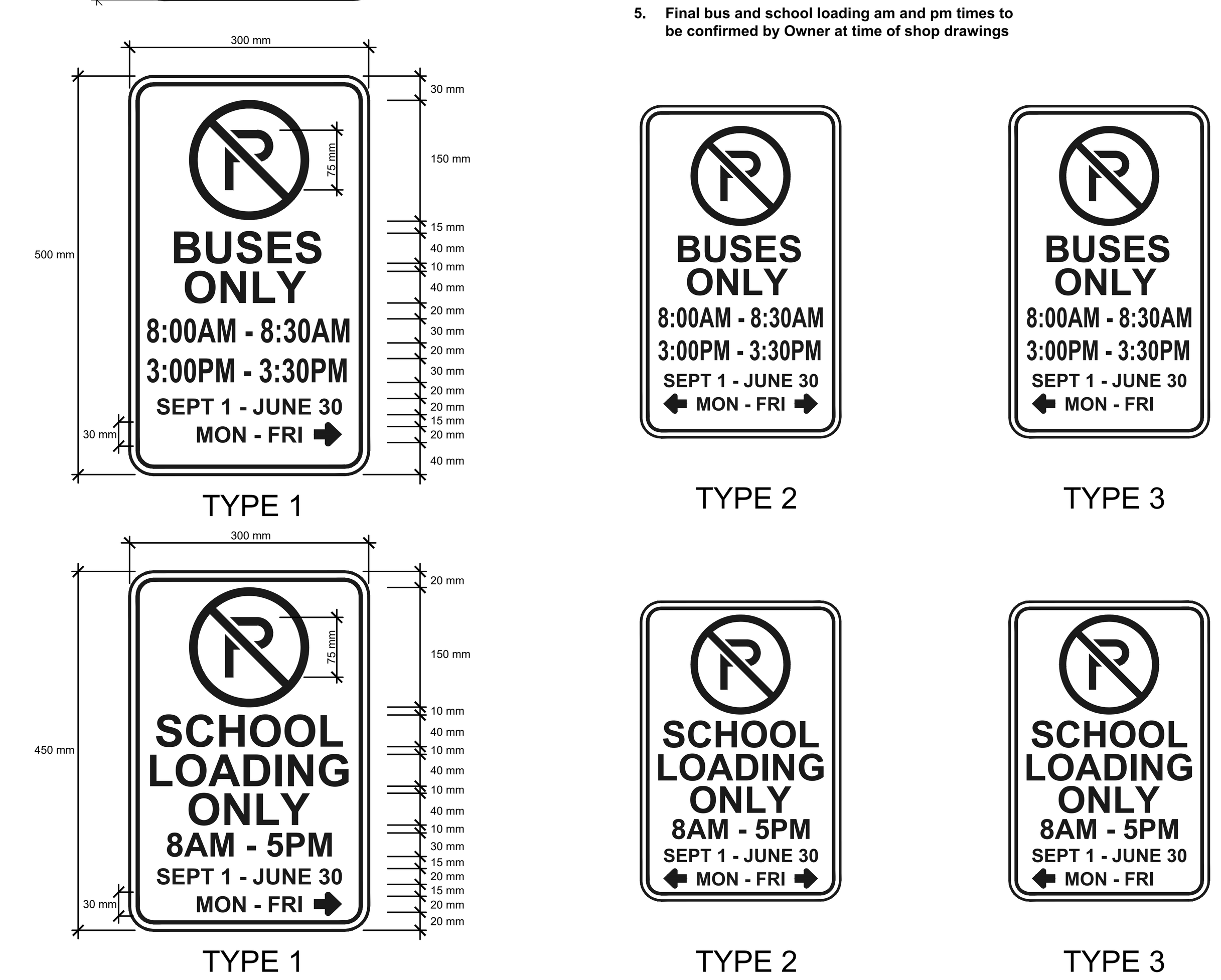
THE METHOD OF ATTACHMENT TO SURFACES:
1. TO A 75mm GALVIN. STL. POST W/12mm GALVIN. HEX HEAD BOLTS AND BOLT WITH WASHERS BOTH SIDES.
2. TO MASONRY BUILDING FACE WITH TWO GALVIN. 50mm LONG 6mm DIA. HEX HEAD LAD BOLT, NUT AND WASHER(S) INTO MASONRY WALL ANCHORS.



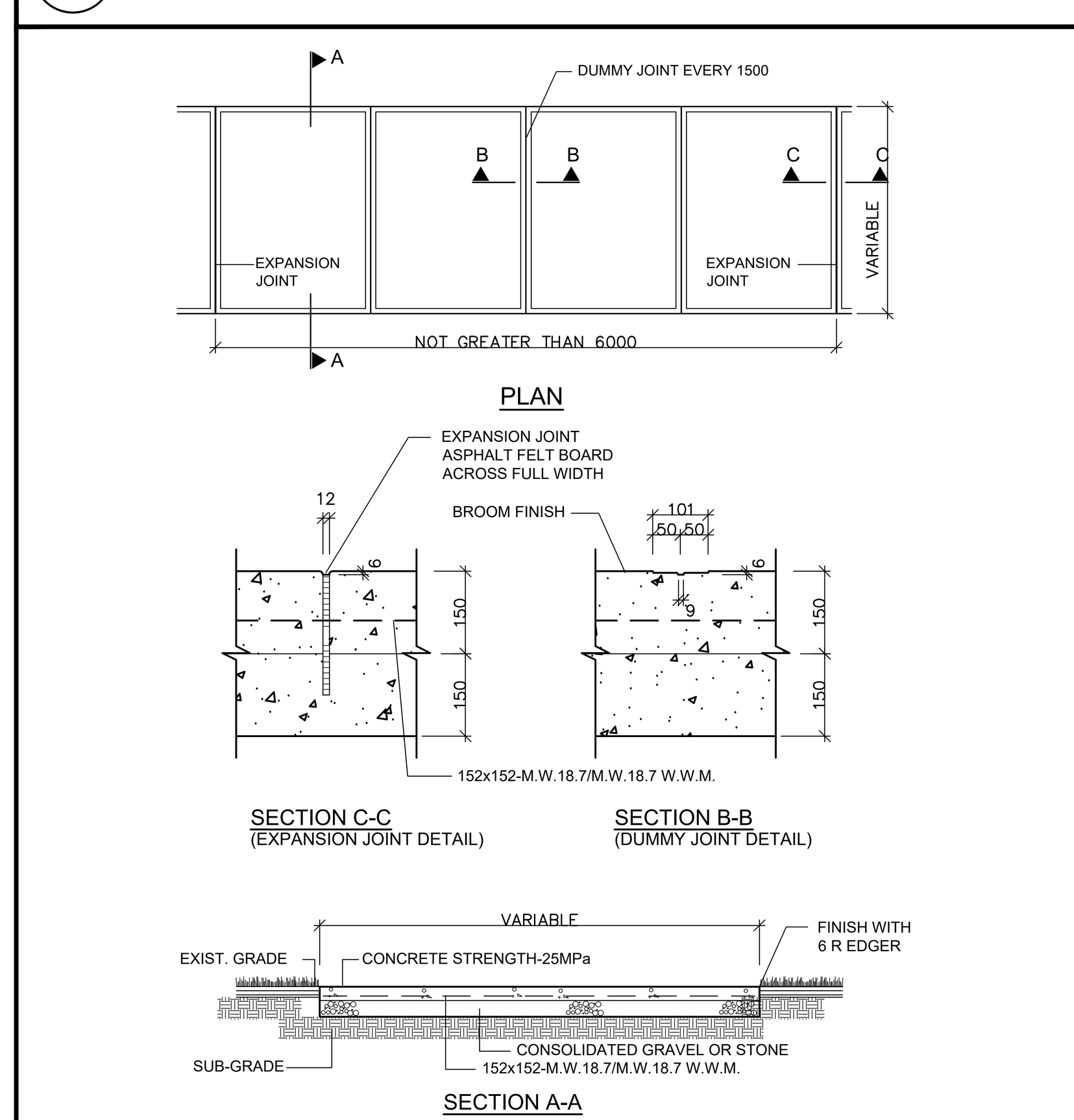
HANDICAP SIGN
MOUNTING DETAIL



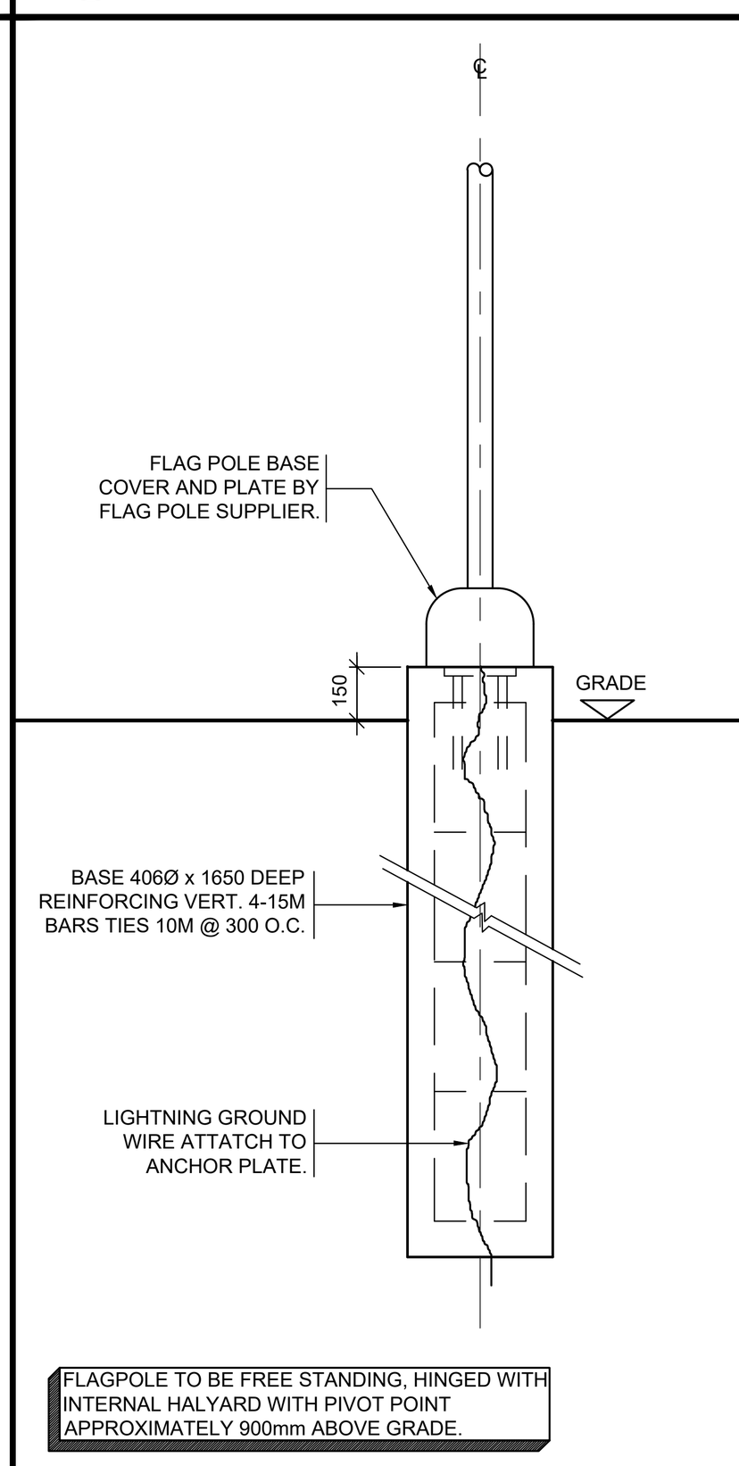
FIRE ROUTE AND BUSES ONLY SIGN NOTES:
1. All legends in black except where noted.
2. Background material to be 3M "SCOTCHLITE" white or equal.
3. Blank to be galvanized steel.
4. Drawing not drawn to scale.
5. **Final bus and school loading am and pm times to be confirmed by Owner at time of shop drawings**



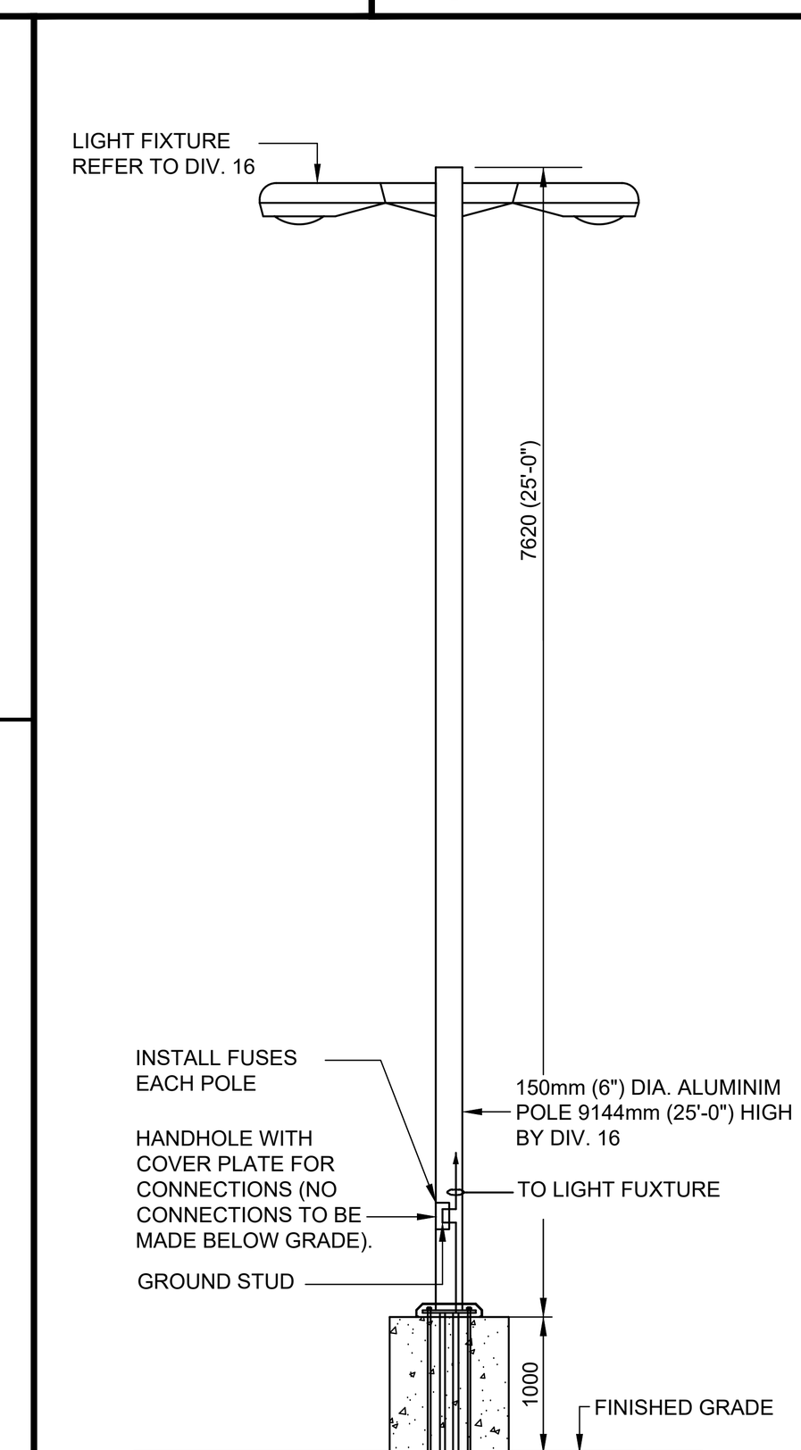
13 SITE SIGNAGE
SP2 SCALE N.T.S



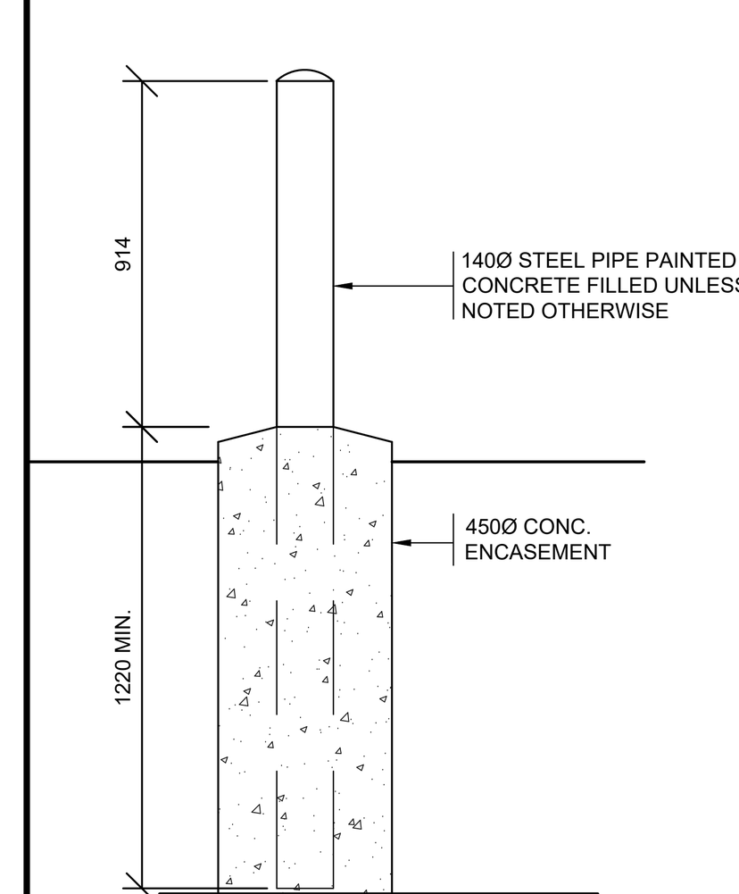
8 CONCRETE SIDEWALK DETAIL
SP2 SCALE N.T.S



9 FLAG POLE DETAIL
SP2 SCALE N.T.S

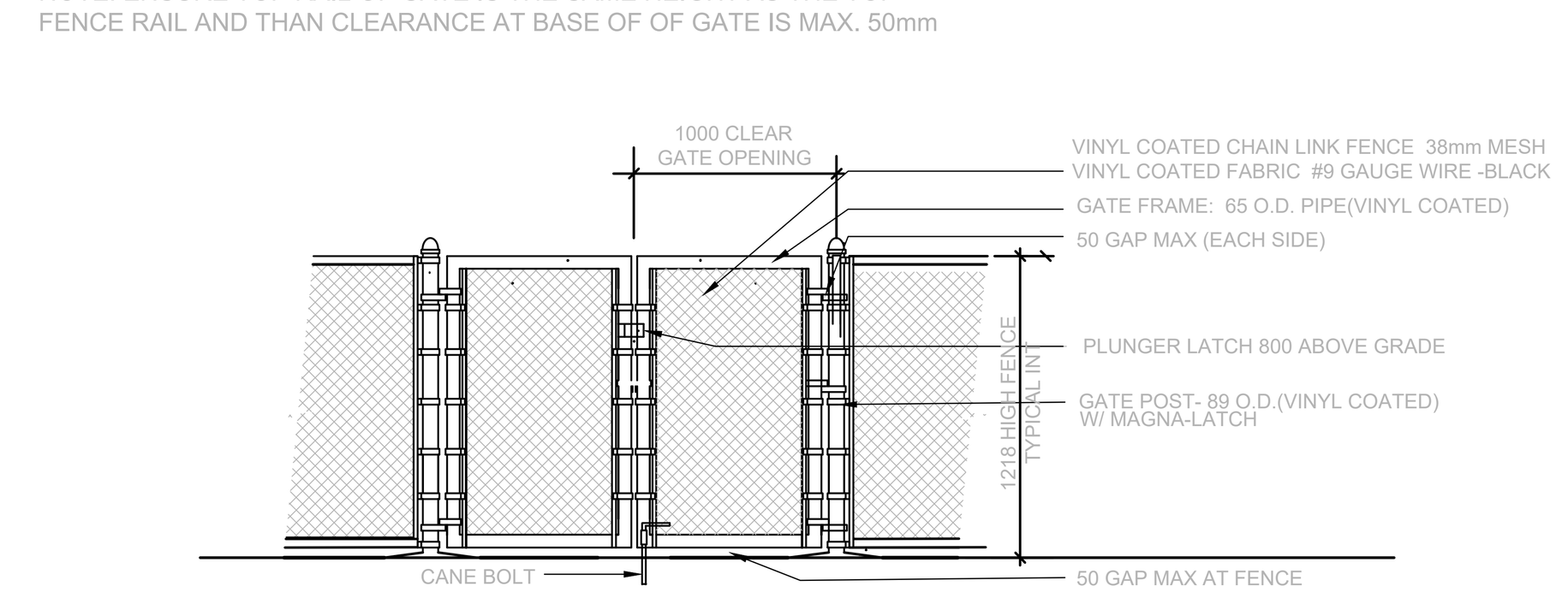


10 LIGHT STANDARD DETAIL
SP2 SCALE 1:50

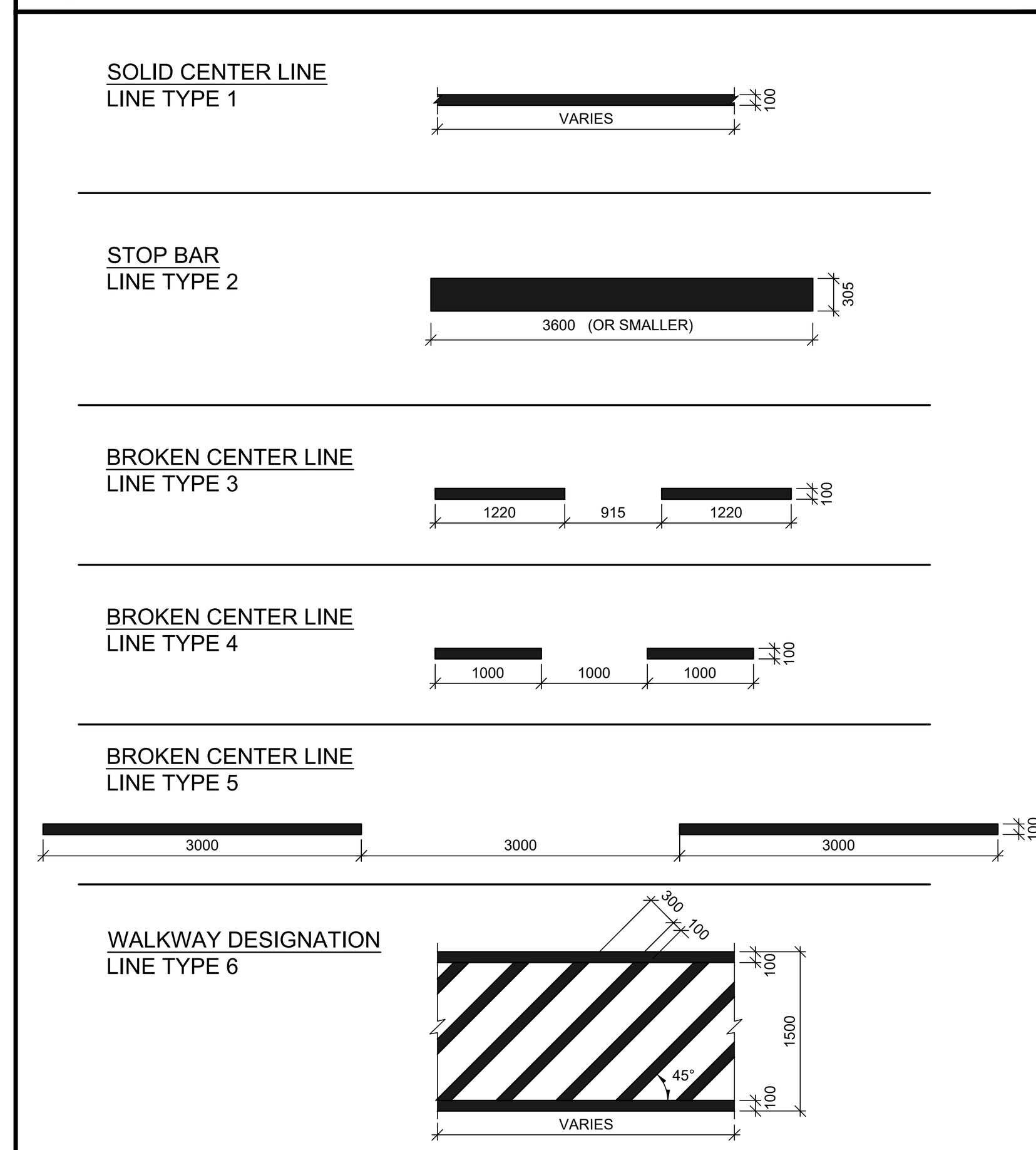


4 BOLLARD DETAIL
SP2 SCALE 1:20

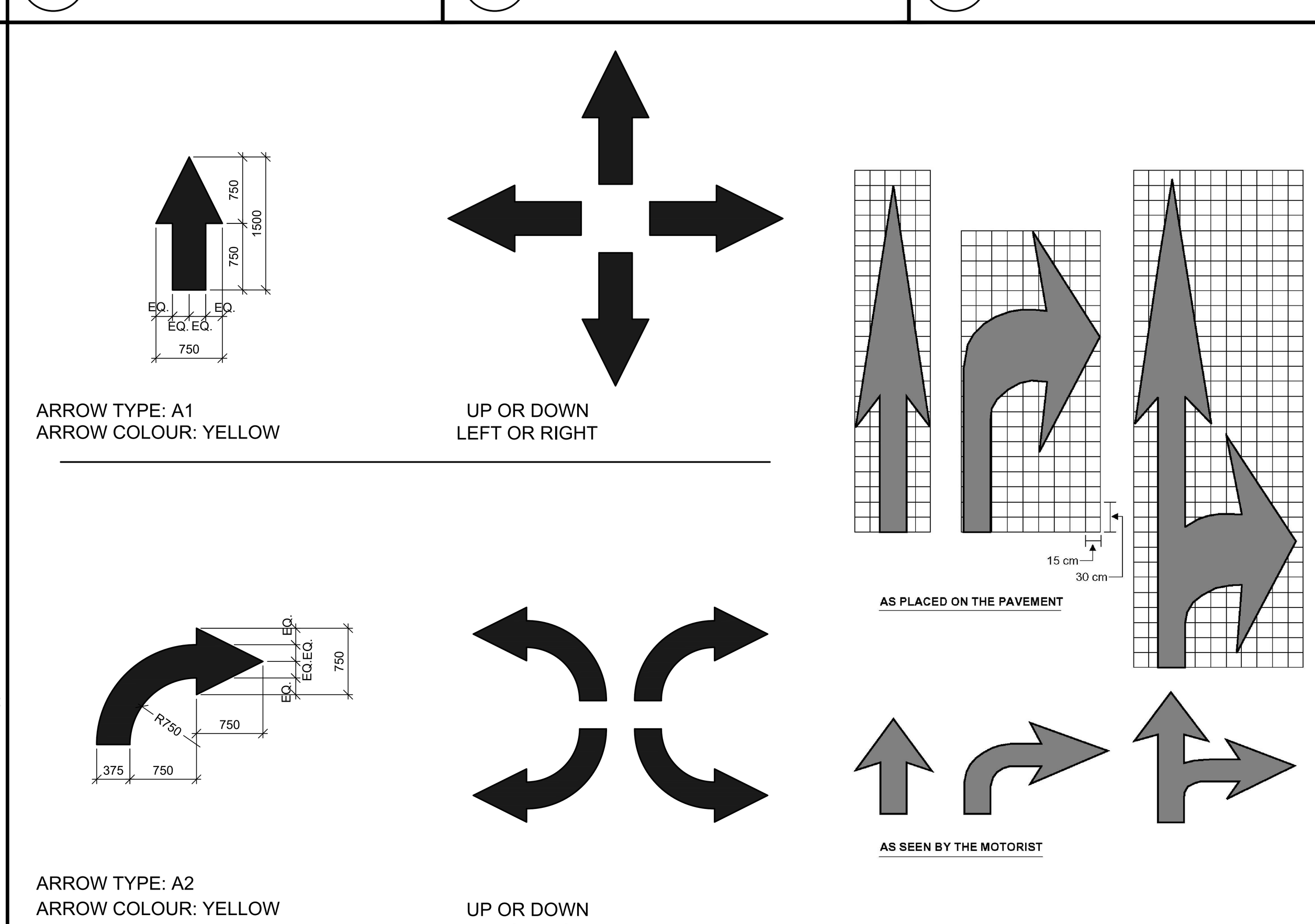
NOTE: ENSURE TOP RAIL OF GATE IS THE SAME HEIGHT AS THE TOP FENCE RAIL AND THAN CLEARANCE AT BASE OF OF GATE IS MAX. 50mm



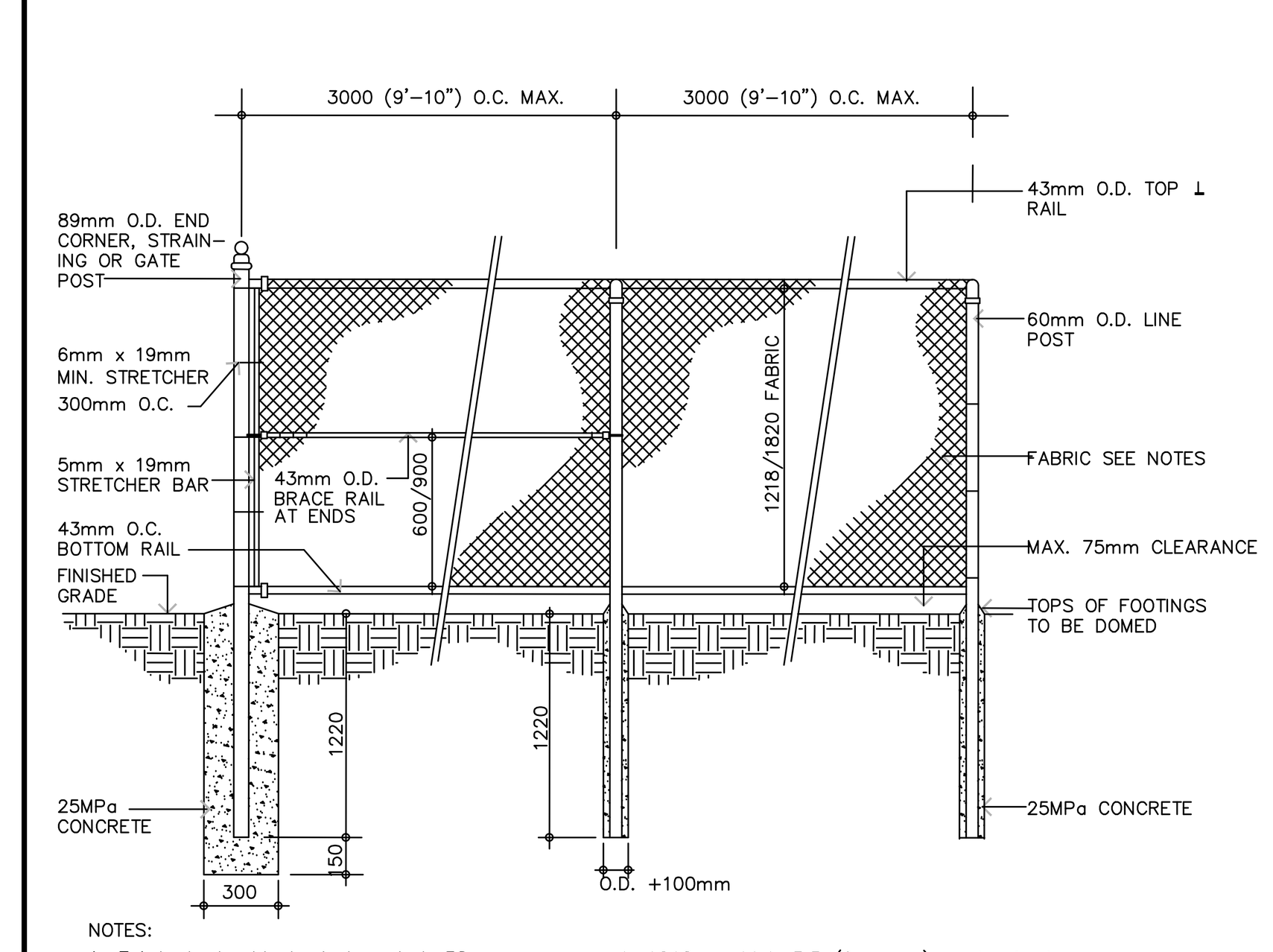
12 GATE FOR 1.2m HT. B.V.CHAIN LINK FENCE
SP2 SCALE N.T.S



14 PAVEMENT MARKING LINES
SP2 SCALE 1:50

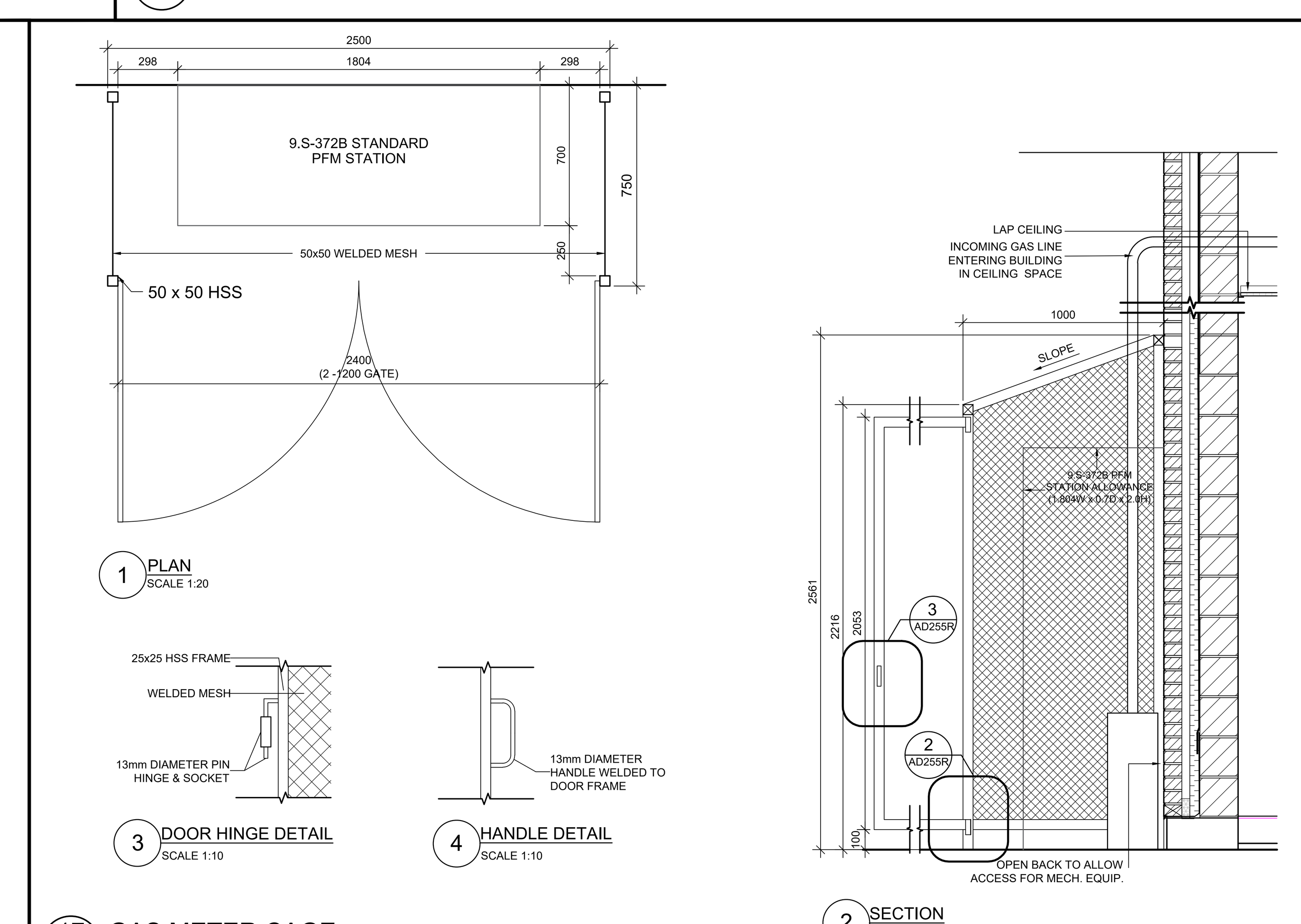


15 PAVEMENT DIRECTIONAL ARROWS
SP2 SCALE 1:50



NOTES:
1. Fabric to be black vinyl coated, 38mm woven mesh 1218mm high 3.5 (9 gauge) galvanized wire fastened top rail, barace rail, line post, stretcher bar and bottom rail with 3.5 galvanized wire 457mm (18") O.C..
2. Finish to be black gloss enamel by powder coart application. Prioer to powder coarting, all surface to be chemically cleaned and treated with Parker Bonderite and chlorothenesolvent or approved equals. Powder coart must be a polyester 2000 series applied in a thickness of 4–5 mils by electrostatic coat and oven cured to a smooth and even surface.
3. All fence posts and rails to be schedule "40" pipe.
4. No plastic fittings or components are to be used.
5. All dimensions in millimetres.

16 TYP. 1.8m / 1.2m CHAIN LINK FENCE DETAILS
SP2 SCALE N.T.S



17 GAS METER CAGE
SP2 SCALE AS NOTED

LEGEND

BB	BELL BOX
DC	DEPRESSED CURB C/W TACTILE INDICATOR. REFER TO AD DWGS AND SPECIFICATIONS
FC	FLUSH CURB
dia.	DIAMETER
F.F.E.	FINISHED FLOOR ELEVATION
SIB	STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR
P	REGISTERED PLAN 65M-3427
PIV	POST INDICATOR VALVE
M	MEASURED
CONC.	CONCRETE
◀	MAIN SCHOOL ENTRANCE
◁	SECONDARY SCHOOL ENTRANCE
CB	DENOTES DOUBLE CATCHBASIN
CB	DENOTES SINGLE CATCHBASIN
HMH	DENOTES HYDRO MANHOLE
MH	DENOTES MANHOLE
SAN MH	DENOTES SANITARY MANHOLE
STM MH	DENOTES STORM MANHOLE
LS	DENOTES LIGHT STANDARD
H	DENOTES FIRE HYDRANT
WV	DENOTES WATER VALVE
	DENOTES BENCH MARK

GENERAL NOTE:
REFER TO AD DRAWINGS FOR EXTERIOR SIGNAGE AND ADDITIONAL SITE PLAN DETAILS. THIS DRAWING TO BE READ IN CONJUNCTION WITH SITE LANDSCAPE, GRADING AND CIVIL DRAWINGS.

NO	REVISIONS	DATE
6	ISSUED FOR TENDER	23 01 04
4	ISSUED FOR BUILDING PERMIT	22 08 30
3	ISSUED FOR 2ND SITE PLAN APPLICATION CIRCULATION	22 08 26
2	ISSUED FOR SITE PLAN APPROVAL & RESPONSE TO ZBLA COMMENTS	22 05 31
1	ISSUED FOR SITE PLAN APPROVAL	22 05 20
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

ONTARIO ASSOCIATION OF ARCHITECTS
Dec. 19/22
[illegible]
PRISCILLA LADOUCEUR
LICENCE
6053

CERTIFICATE OF PRACTICE #4292

OAKVILLE #3
PUBLIC SCHOOL

SP 1309.001/01
1235 WHEAT BOOM DRIVE
OAKVILLE, ON

LEGAL DESCRIPTION:
Block 41 Registered Plan 20M-1247
TOWN OF OAKVILLE, REGION OF HALTON

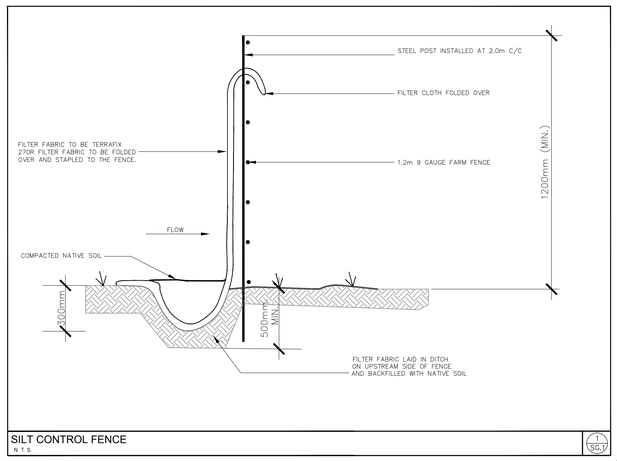
TENDER NO. RFT 23-007

HALTON DISTRICT SCHOOL BOARD
J.W.SINGLETON EDUCATION CENTRE
2050 GUELPH LINE
BURLINGTON, ON., L7R 3Z2
TEL. (905) 335-3663
FAX (905) 335-9802

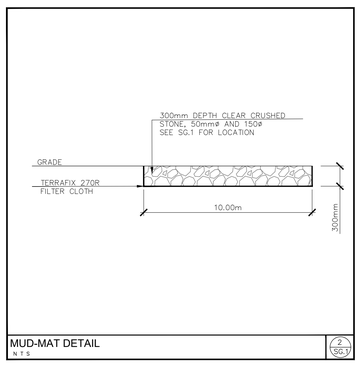
SITE PLAN
DETAILS

HOSSACK
& ASSOCIATES
ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8290

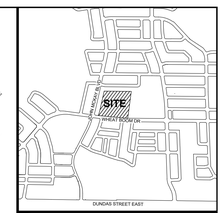
SCALE 1:250	PROJECT 22104
DATE 22 03 28	
DRAWN PL/JK/CC	DRAWING SP2
CHECKED PL	
PRINT DATE	22 12 09
REVIT FILE	22104 HDSB Oak3\02



SILT CONTROL FENCE
N.T.S.
1 SG.1



MUD-MAT DETAIL
N.T.S.
2 SG.1



KEY PLAN N.T.S.

BASE INFORMATION TAKEN FROM DRAWING(S) BY OTHERS. SA DOES NOT ASSUME ANY RESPONSIBILITY FOR ERRORS, OMMISIONS OR ACCURACY OF THE INFORMATION. DRAWINGS SHALL ONLY BE USED FOR GUIDELINE PURPOSES ONLY.

LEGEND:

- PROPERTY LINE
- EXISTING CONTOUR AND ELEVATION FROM R-PE SURVEYING LTD. DATED: NOV. 22, 2022 JOB No. 18-286 CAD FILE No. 18286tp12
- 172.98 PROPOSED SUBDIVISION DESIGN GRADE BY DSEL DATED: JAN. 27, 2022
- +(195.75) INTERPOLATED DESIGN GRADE GENERATED BY STRATEGY4 (ALONG SCHOOL BOUNDERY) FROM DSEL DESIGN GRADE DATED: JUNE 27, 2022
- 177.500 PROPOSED ELEVATION CONTOUR (WITHIN SCHOOL BOUNDARY)
- 0.5% PROPOSED DRAINAGE ARROW AND PERCENTAGE
- 177.80TC PROPOSED TOP OF CURB
- 177.03BC PROPOSED BOTTOM OF CURB
- 176.75TW PROPOSED TOP OF WALL
- 176.30BW PROPOSED BOTTOM OF WALL
- 176.10INV. PROPOSED INVERT
- 176.30 PROPOSED ELEVATION
- PROPOSED EMERGENCY HIGH WATER LEVEL
- POTENTIAL FUTURE PORTABLE LOCATION
- PROPOSED ARMOUR STONES
- PROPOSED LAMP POST
- CB PROPOSED CATCH BASIN
- PROPOSED LEDGESTONE HEADWALL
- OVERLAND FLOW
- PROPOSED DEPRESSED CURB W/ TACTILE WARNING STRIP
- PROPOSED RETAINING WALL / SEATWALL

JAN. 4 2023	ISSUED FOR TENDER	9. DT
NOV. 7 2022	ISSUED FOR 3RD SITE PLAN APPLICATION CIRCULATION	8. JK
AUG. 30 2022	ISSUED FOR PERMIT	7. JK
AUG. 29 2022	ISSUED FOR 2ND SITE PLAN APPLICATION CIRCULATION	6. JK
JUN. 3 2022	ISSUED FOR SITE PLAN APPROVAL & RESPONSE TO ZBLA COMMENTS	5. JK
MAR. 31 2022	ISSUED FOR ZBL AMENDMENT	4. JK
FEB. 17 2022	ISSUED FOR SITE PLAN PRE-CONSULTATION	3. JK
DEC. 8 2021	ISSUED TO TRAFALGAR ENG PRIOR TO ARGO & MATTAMY REVIEW	2. JK
NOV. 24 2021	ISSUED TO HDSB TO PROVIDE TO ARCHITECTS	1.JK

DATE DESCRIPTION CHECKED BY

REVISIONS

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HALTON DISTRICT SCHOOL BOARD

Strategy 4
- Development Consulting
- Urban Transformation
- Urban Design
- Urban Works

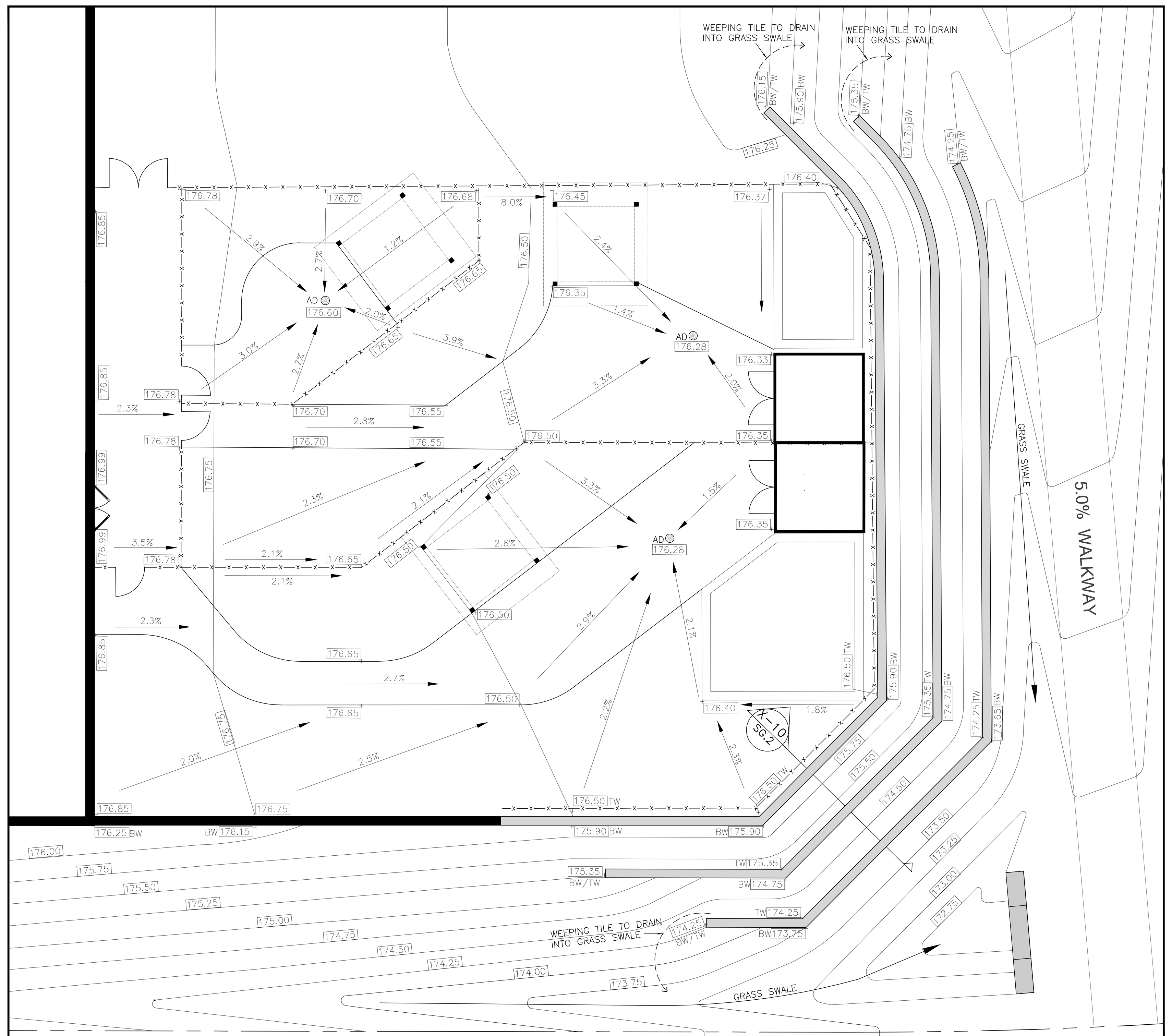
2520 Bristol Circle, Suite 100
Oakville, On L6H 6Z7
t: (905) 829-2544

Project Name:
NORTH OAKVILLE #3
PUBLIC ELEMENTARY SCHOOL
1235 WHEAT BOOM DRIVE, OAKVILLE, ONTARIO

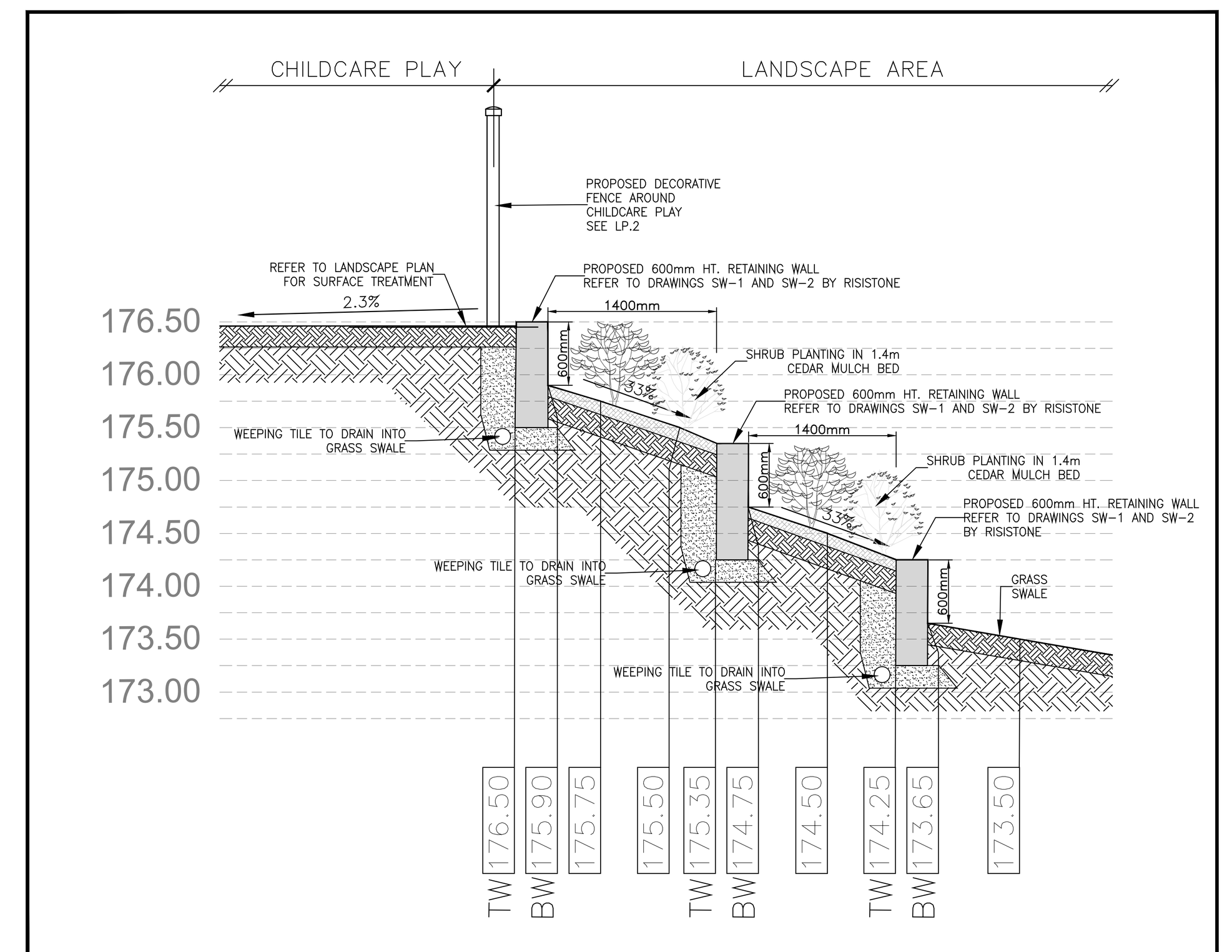
Sheet Description:
SITE GRADING PLAN

BLOCK 41 R-PLAN 20M-1247

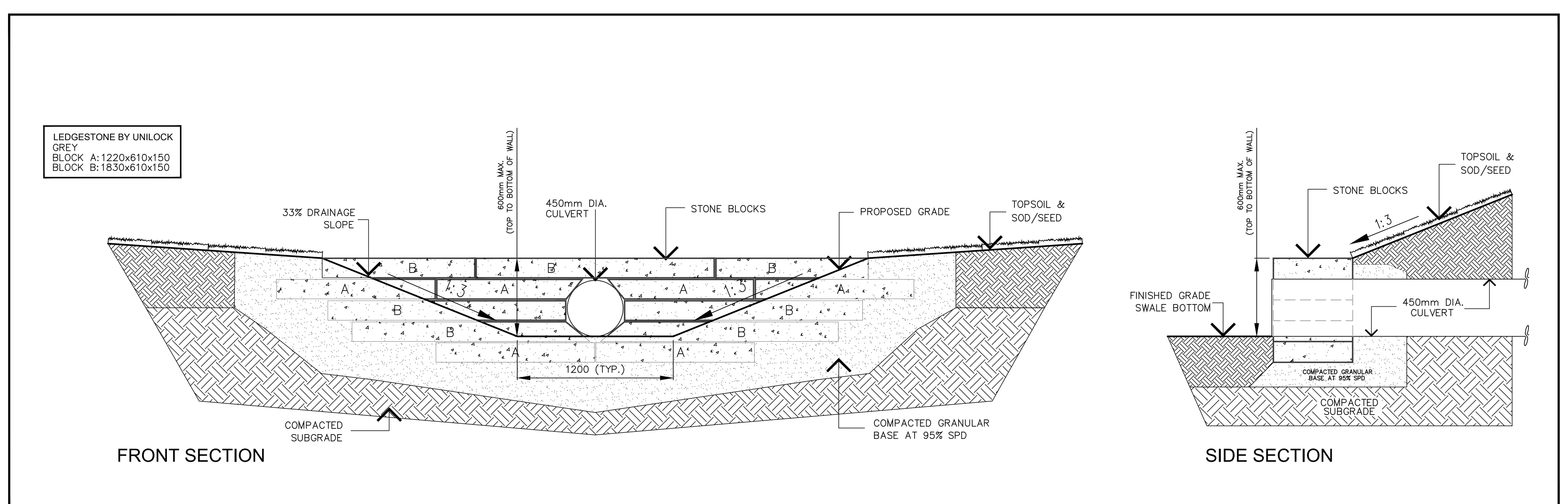
Date:	Issued:
SEPT. 2021	DEC. 2022
Job No.:	Drawn By.:
S4 3076	RO
Scale:	Checked By:
1:250	DT
SHEET No.:	File No.:
SG 1 OF 2	3076SG1-221219.DWG



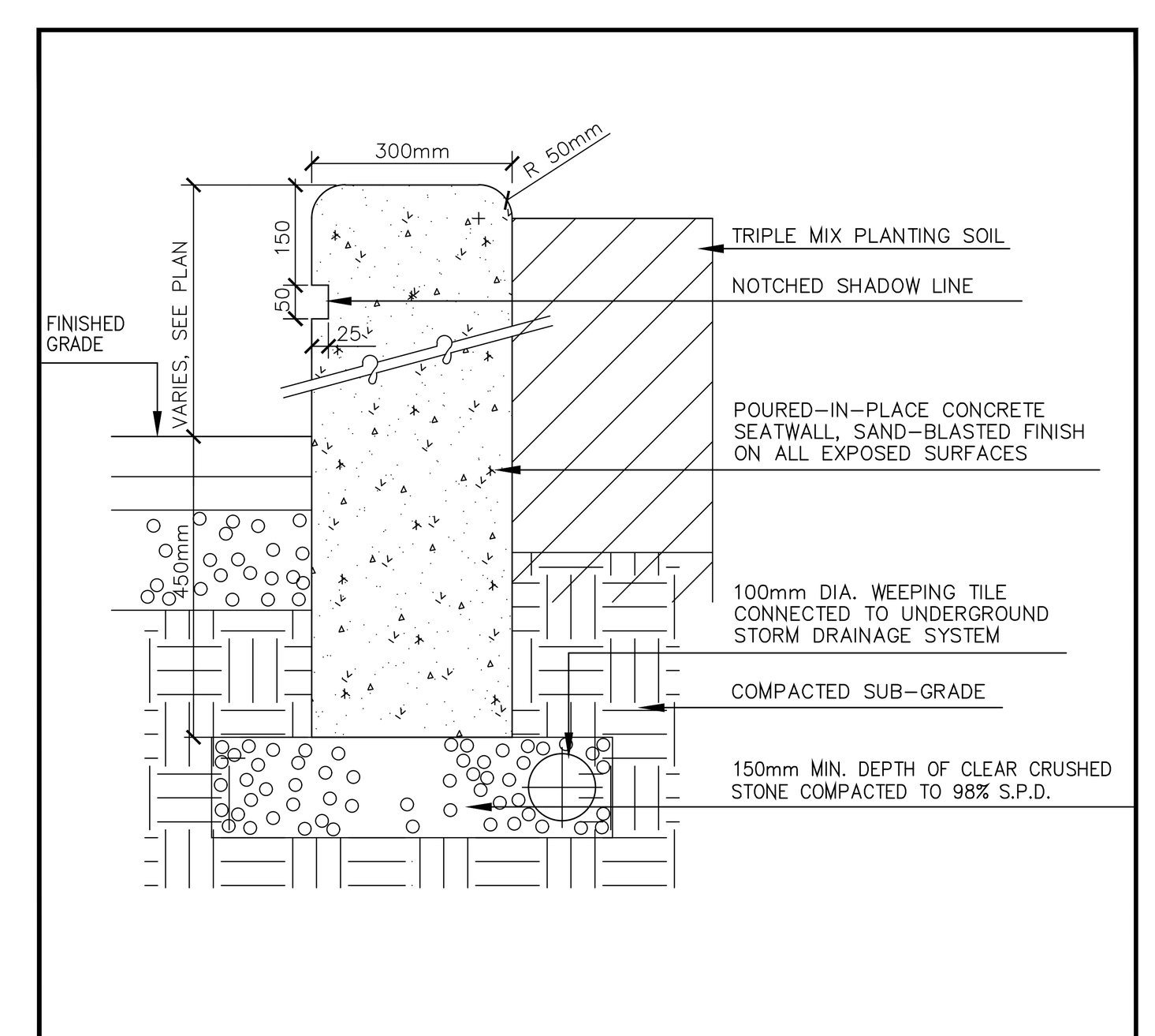
CHILDCARE PLAY AREA GRADING ENLARGEMENT
SCALE: 1 : 100
1 SG.2



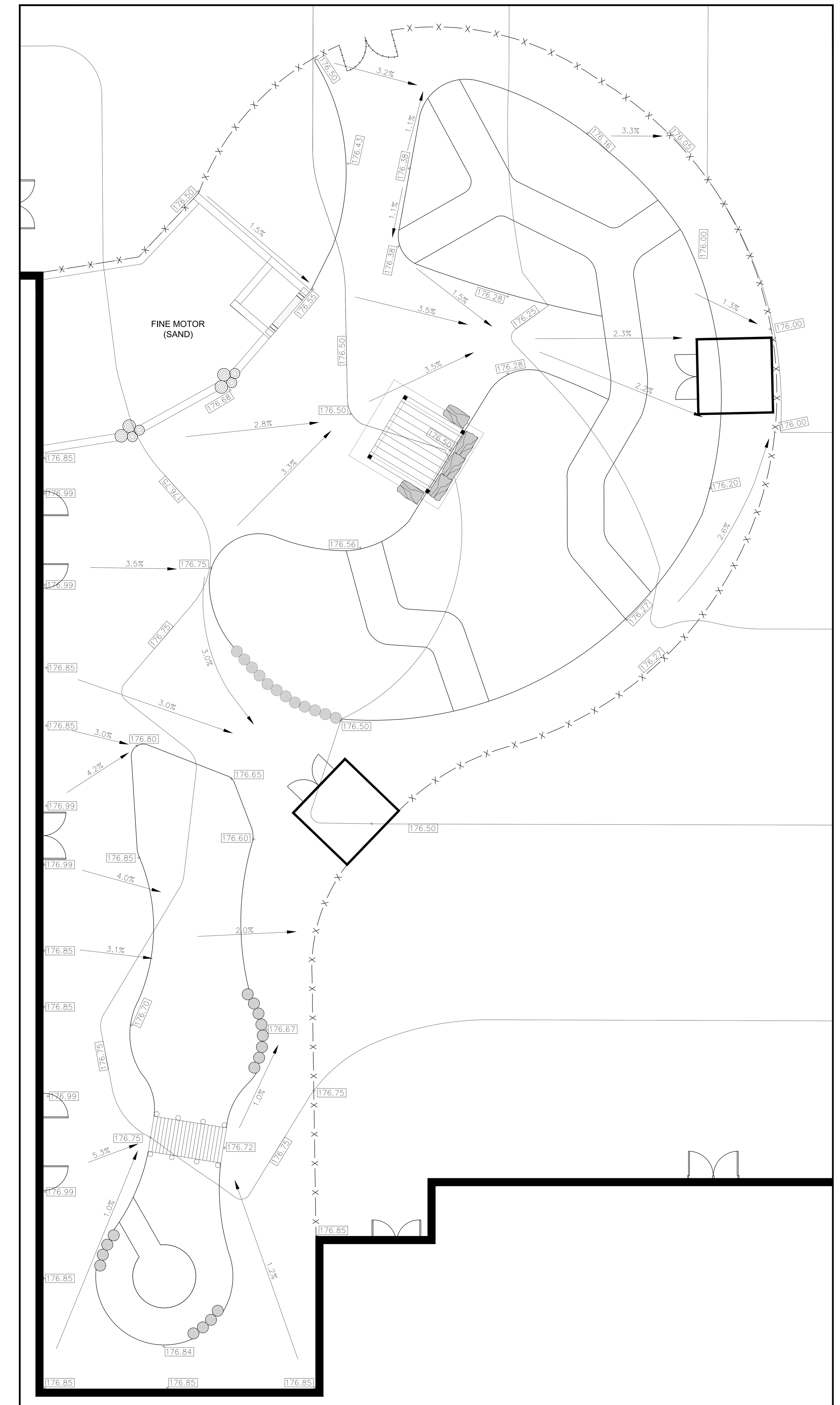
SECTION X-10
SCALE: 1 : 50
5 SG.2



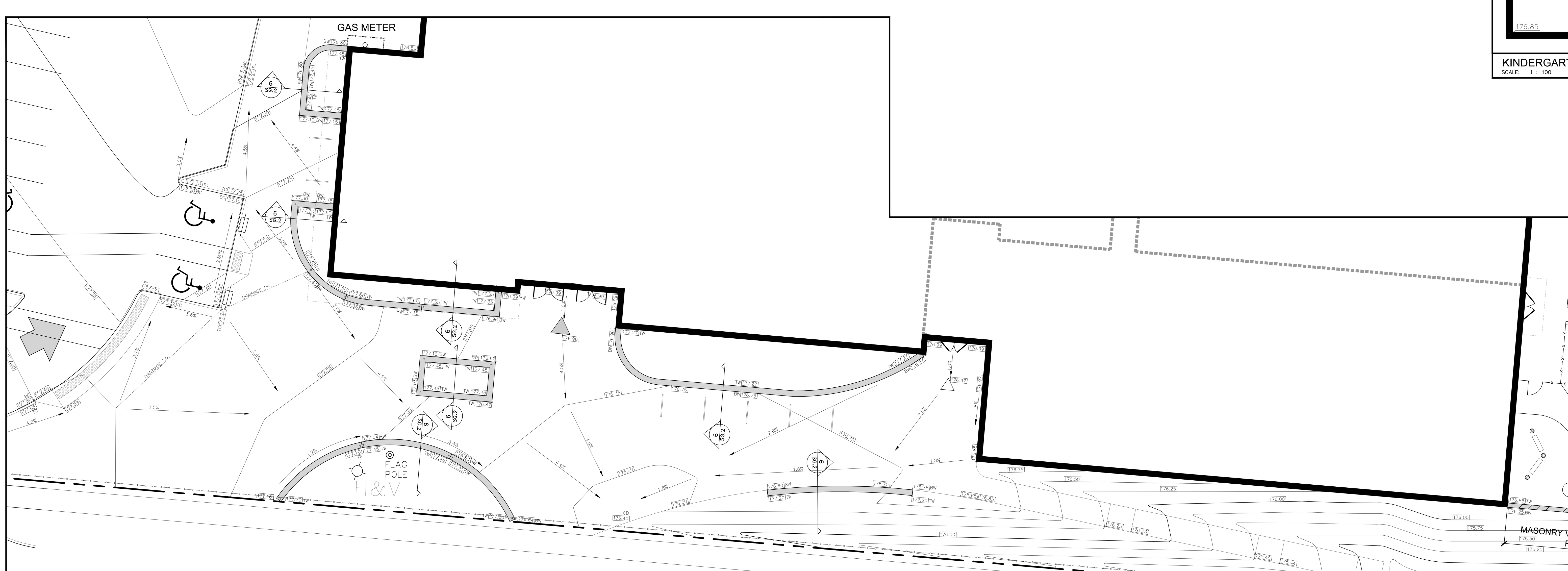
STONE HEADWALL
SCALE: 1 : 2 5
2 SG.2



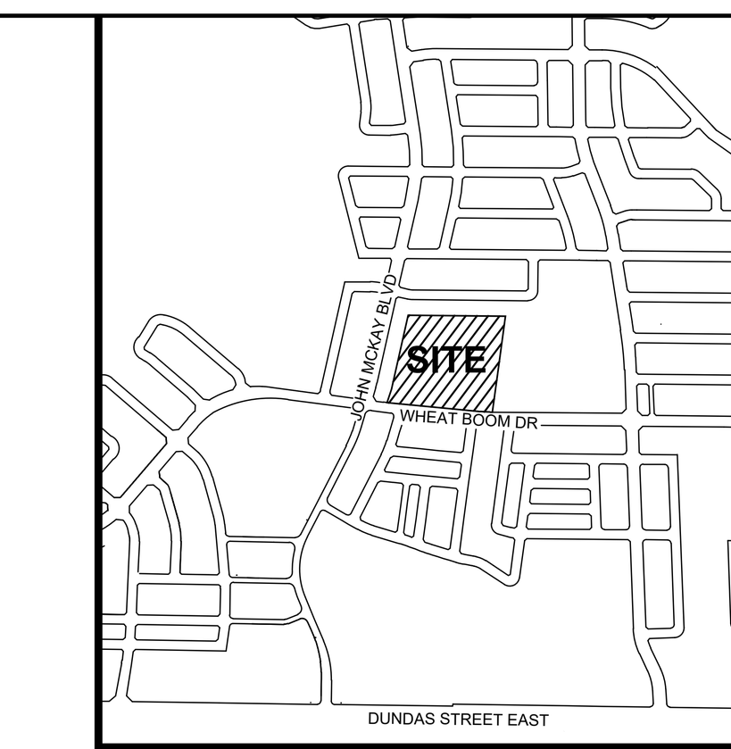
POURED CONCRETE SEATWALL
SCALE: 1 : 10
6 SG.2



KINDERGARTEN PLAY AREA GRADING ENLARGEMENT
SCALE: 1 : 100
3 SG.2



FRONT ENTRANCE GRADING ENLARGEMENT
SCALE: 1 : 150
4 SG.2



KEY PLAN N.T.S.

BASE INFORMATION TAKEN FROM DRAWING(S) BY OTHERS. S4 DOES NOT ASSUME ANY RESPONSIBILITY FOR ERRORS, OMMISIONS OR ACCURACY OF THE INFORMATION. DRAWINGS SHALL ONLY BE USED FOR GUIDELINE PURPOSES ONLY.
ENGINEERING BASE INFORMATION TAKEN FROM DSEL PROJ. NO.: 21-1248 SHT. 10 OF 36
DATED: AUGUST 24, 2021

LEGEND:

- PROPERTY LINE
- EXISTING CONTOUR AND ELEVATION FROM R-PE SURVEYING LTD. DATED: NOV. 22, 2022 JOB No. 18-286 CAD FILE No. 18286tp12
- 172.98 — PROPOSED SUBDIVISION DESIGN GRADE BY DSEL DATED: JUNE 27, 2022
- +(195.75) — INTERPOLATED DESIGN GRADE GENERATED BY STRATEGY4 (ALONG SCHOOL BOUNDERY) FROM DSEL DESIGN GRADE DATED: JUNE 27, 2022
- 173.50 — PROPOSED ELEVATION CONTOUR (WITHIN SCHOOL BOUNDARY)
- 0.5% — PROPOSED DRAINAGE ARROW AND PERCENTAGE
- 177.80 TC — PROPOSED TOP OF CURB
- 177.65 BC — PROPOSED BOTTOM OF CURB
- 176.15 TW — PROPOSED TOP OF WALL
- 175.30 BW — PROPOSED BOTTOM OF WALL
- 175.30 INV. — PROPOSED INVERT
- 175.30 — PROPOSED ELEVATION
- PROPOSED EMERGENCY HIGH WATER LEVEL
- 5 YR PONDING ELEVATION
- POTENTIAL FUTURE PORTABLE LOCATION
- PROPOSED ARMOUR STONES
- PROPOSED LAMP POST
- CB — PROPOSED CATCH BASIN
- PROPOSED LEDGESTONE HEADWALL
- OVERLAND FLOW
- PROPOSED DEPRESSED CURB W/ TACTILE WARNING STRIP
- PROPOSED RETAINING WALL / SEATWALL

DATE	DESCRIPTION	CHECKED BY
JAN. 4 2023	ISSUED FOR TENDER	9. DT
NOV. 7 2022	ISSUED FOR 3RD SITE PLAN APPLICATION CIRCULATION	8. JK
AUG. 30 2022	ISSUED FOR PERMIT	7. JK
AUG. 29 2022	ISSUED FOR 2ND SITE PLAN APPLICATION CIRCULATION	6. JK
JUN. 3 2022	ISSUED FOR SITE PLAN APPROVAL & RESPONSE TO ZBLA COMMENTS	5. JK
MAR. 31 2022	ISSUED FOR ZBL AMENDMENT	4. JK
FEB. 17 2022	ISSUED FOR SITE PLAN PRE-CONSULTATION	3. JK
DEC. 8 2021	ISSUED TO TRAFALGAR ENG PRIOR TO ARGO & MATTAMY REVIEW	2. JK
NOV. 24 2021	ISSUED TO HDSB TO PROVIDE TO ARCHITECTS	1.JK

REVISIONS

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL H. TREGUNNO
MEMBER

HALTON DISTRICT SCHOOL BOARD

Strategy 4
- Development Consulting
- Urban Transformation
- Urban Design
- Urban Works

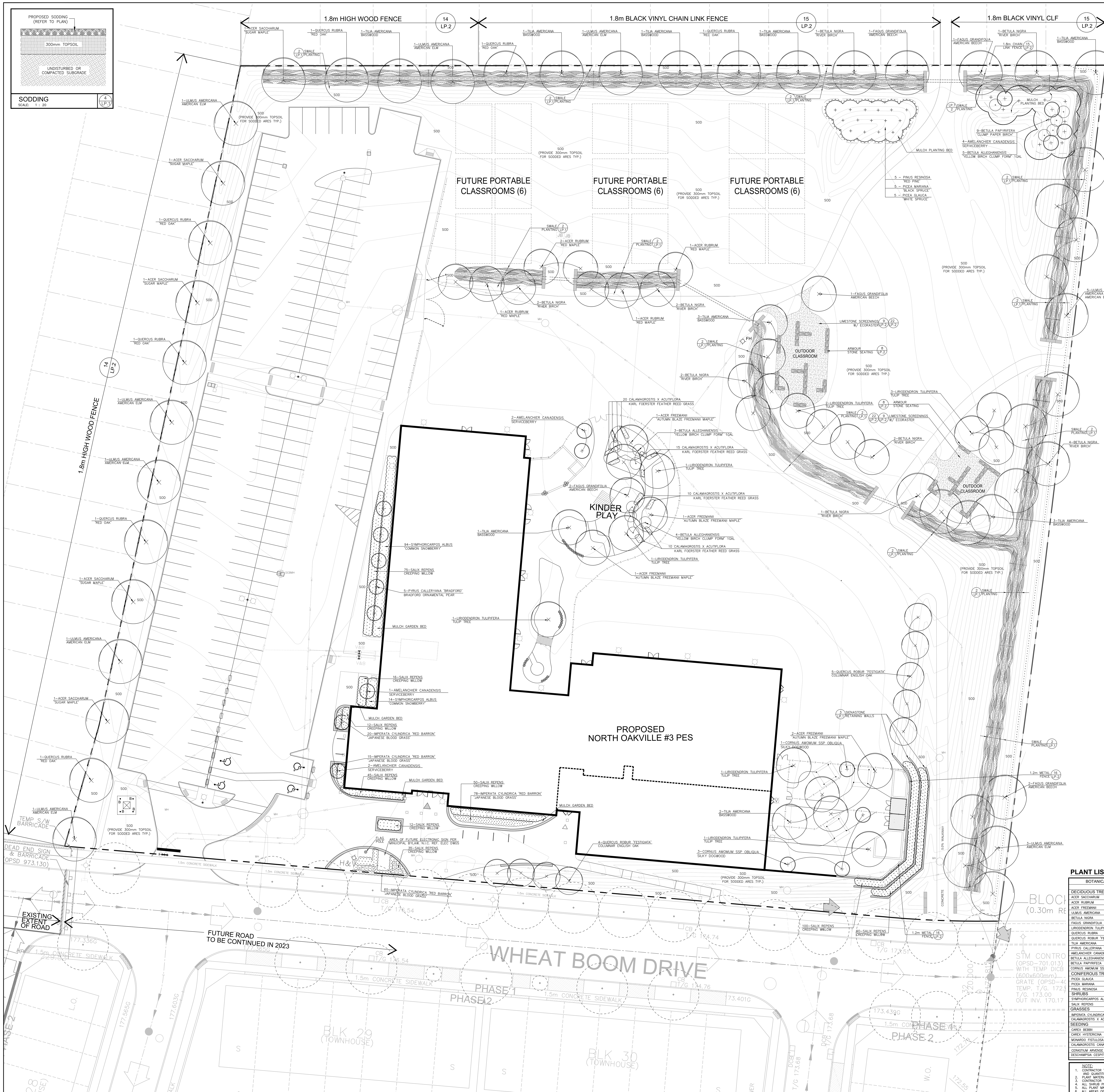
2620 Bristol Circle, Suite 100
Oakville, On L6H 6Z7
☎ t: (905) 829-2544

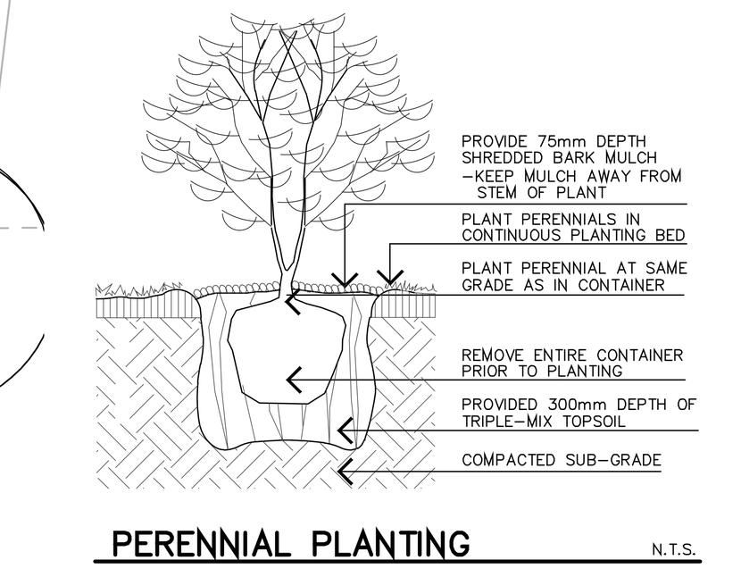
Project Name:
NORTH OAKVILLE #3
PUBLIC ELEMENTARY SCHOOL
1235 WHEAT BOOM DRIVE, OAKVILLE, ONTARIO

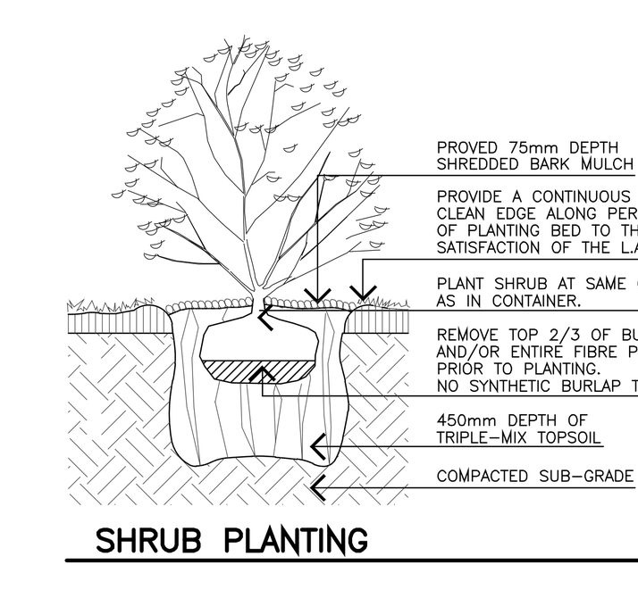
Sheet Description:
SITE GRADING PLAN

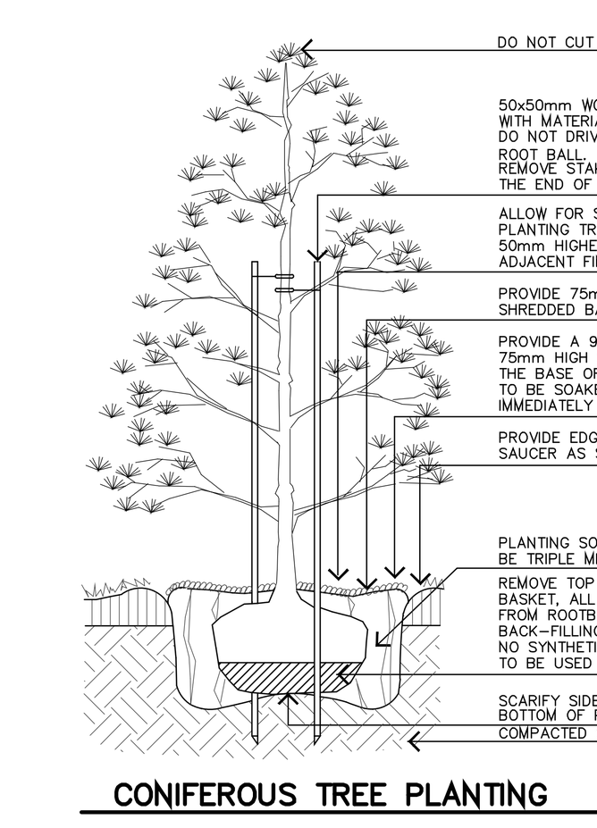
BLOCK 41 R-PLAN 20M-1247

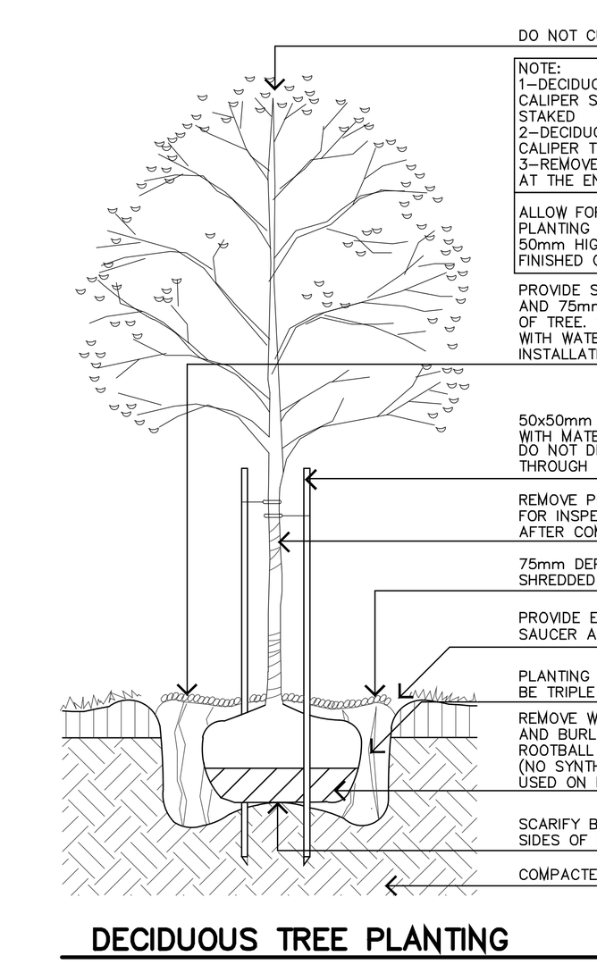
Date: SEPT. 2021	Issued: DEC. 2022
Job No.: S4 3076	Drawn By.: RO
Scale: AS SHOWN	Checked By: DT
SHEET No.: SG 2 of 2	File No.: 3076SG2-221219.DWG

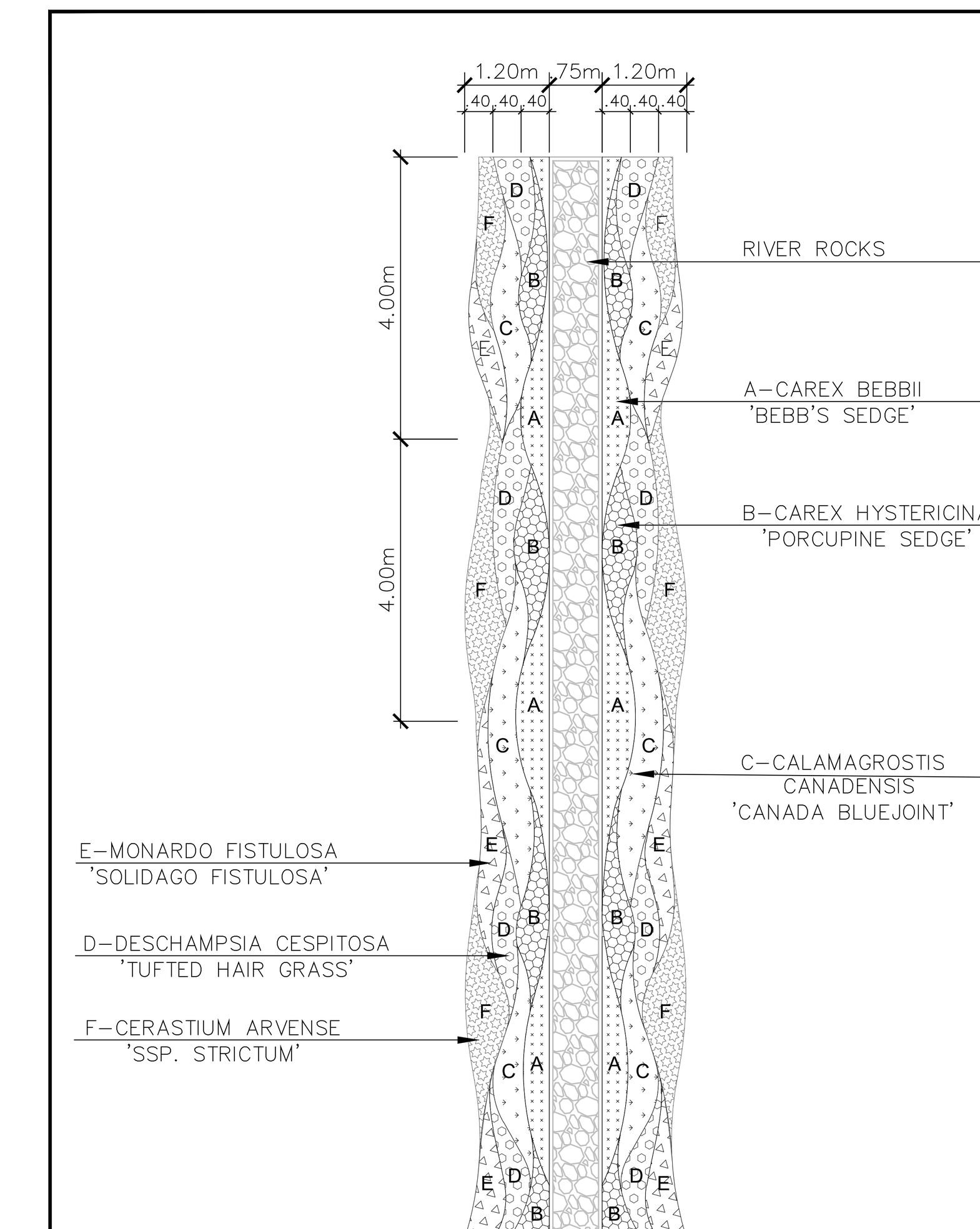












PLANT LEGEND

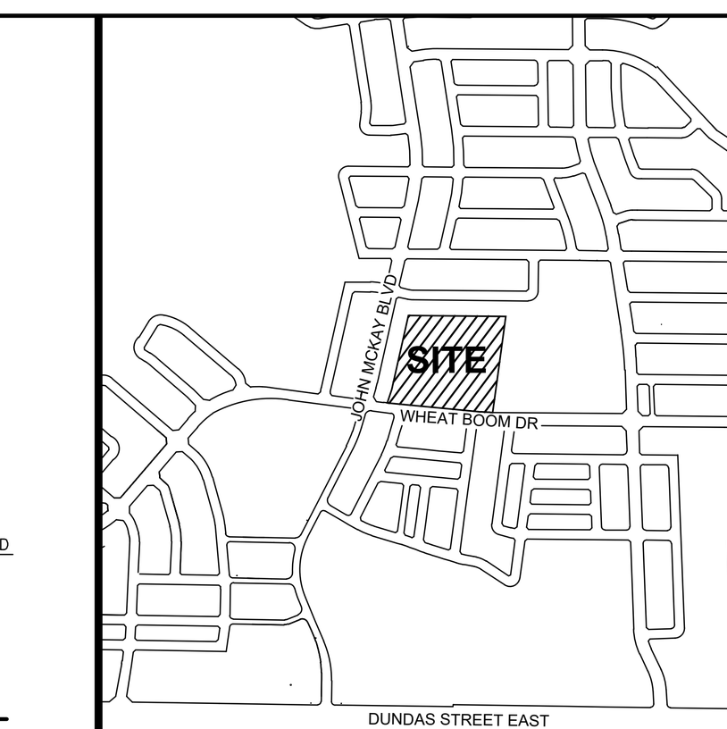
▨	A–CAREX BEBBII 'BEBB'S SEDGE'	▨	E–MONARDO FISTULOSA 'SOLIDAGO FISTULOSA'
▨	B–CAREX HYSTERICINA 'PORCUPINE SEDGE'	▨	D–DESCHAMPSIA CESPITOSA 'TUFTED HAIR GRASS'
▨	C–CALAMAGROSTIS CANADENSIS 'CANADA BLUEJOINT'	▨	F–CERASTIUM ARVENSE 'SSP. STRICTUM'

SWALE PLANTING (Install at 22kg/Ha)
SCALE: 1 : 75
2 LP.1

PLANT LISTS:

BOTANICAL NAME	COMMON NAME	CAL.	HEIGHT	SPREAD	COND.	REMARKS
DECIDUOUS TREES						
ACER SACCHARUM	SUGAR MAPLE	70mm	–	–	W.B.	SPECIMEN
ACER RUBRUM	RED MAPLE	70mm	–	–	W.B.	SPECIMEN
ACER FREEMANII	AUTUMN BLAZE FREEMANII MAPLE	70mm	–	–	W.B.	SPECIMEN
ULMUS AMERICANA	AMERICAN ELM	70mm	–	–	W.B.	SPECIMEN
BETULA NIGRA	RIVER BIRCH	70mm	–	–	W.B.	SPECIMEN
FAGUS GRANDIFOLIA	AMERICAN BEECH	70mm	–	–	W.B.	SPECIMEN
LIRIODENDRON TULIPIFERA	TULIP TREE	70mm	–	–	W.B.	SPECIMEN
QUERCUS RUBRA	RED OAK	70mm	–	–	W.B.	SPECIMEN
QUERCUS ROBUR 'FESTIGIATA'	COLUMNAR ENGLISH OAK	70mm	–	–	W.B.	SPECIMEN
TILIA AMERICANA	BASSWOOD	70mm	–	–	W.B.	SPECIMEN
PYRUS CALLERYANA 'BRADFORD'	BRADFORD ORNAMENTAL PEAR	50mm	–	–	W.B.	SPECIMEN
AMELANCHIER CANADENSIS	SERVICEBERRY	50mm	–	–	W.B.	SPECIMEN
BETULA ALLEGHANIENSIS	'YELLOW BIRCH CLUMP FORM' 1GAL	–	–	–	W.B.	SPECIMEN
BETULA PAPYRIFECA	PAPER BIRCH CLUMP	50mm	–	–	W.B.	SPECIMEN
CORNUS AMOMUM SSP. OBLIQUA	SILKY DOGWOOD	50mm	–	–	W.B.	SPECIMEN
CONIFEROUS TREES						
PICEA GLAUCA (A)	WHITE SPRUCE	–	2m	–	W.B.	SPECIMEN
PICEA MARIANA (B)	BLACK SPRUCE	–	2m	–	W.B.	SPECIMEN
PINUS RESINOSA (C)	RED PINE	–	2m	–	W.B.	SPECIMEN
SHRUBS						
SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	–	600mm	–	2gal	VIGOROUS
SALIX REPENS	CREEPING WILLOW	–	600mm	–	2gal	VIGOROUS
GRASSES						
IMPERATA CYLINDRICA 'RED BARRON'	JAPANESE BLOOD GRASS	–	2-YEAR	–	CG	VIGOROUS
CALAMAGROSTIS X ACUTIFLORA	KARL FOERSTER FEATHER REED GRASS	–	2-YEAR	–	CG	VIGOROUS
SEEDING						
CAREX BEBBII	BEBB'S SEDGE	–	–	–	–	–
CAREX HYSTERICINA	PORCUPINE SEDGE	–	–	–	–	–
MONARDO FISTULOSA	WILD BERGAMOT	–	–	–	–	–
CALAMAGROSTIS CANADENSIS	CANADA BLUEJOINT	–	–	–	–	–
CERASTIUM ARVENSE 'SSP. STRICTUM'	FIELD CHICKWEED	–	–	–	–	–
DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	–	–	–	–	–

NOTE:
1. CONTRACTOR TO SUPPLY AND INSTALL PLANT MATERIAL AS PER QUANTITIES LISTED ON LANDSCAPE PLAN, IN CASE OF DISCREPANCEY BETWEEN PLAN AND QUANTITIES ON PLANT LIST IF PROVIDED.
2. PLANT MATERIAL TO CONFORM TO CANADIAN NURSERY ASSOCIATION METRIC GUIDE SPECIFICATIONS FOR NURSERY STOCKS, LATEST EDITION.
3. CONTRACTOR TO STAKE OUT ALL LOCATIONS FOR ALL UTILITIES PRIOR TO STAKING OUT TREE LOCATIONS
4. ALL SHRUB PLANTINGS SHALL BE IN CONTINUOUS BEDS, UNLESS OTHERWISE NOTED.
5. ALL PLANT MATERIAL TO HAVE A 2-YEAR WARRANTY PERIOD.
6. ALL AREAS OF SOD ARE TO HAVE 300mm OF TOPSOIL.



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LEGEND:

— – – —	PROPERTY LINE
▭	POTENTIAL FUTURE PORTABLE LOCATION
▨	SWALE RIVER ROCKS
▨	LIMESTONE SCREENINGS
⊕	PROPOSED DECIDUOUS TREES
⊕	PROPOSED CONIFEROUS TREES
◌	PROPOSED SUBDIVISION STREET TREES BY OTHERS
●	PROPOSED PLANTING
▨	PROPOSED ARMOUR STONES
▭	PROPOSED PRECAST HEADWALL
▭	PROPOSED CONCRETE SEATWALL
●	PROPOSED LAMP POST
□ CB	PROPOSED CATCH BASIN

DATE	DESCRIPTION	CHECKED BY
JAN. 4 2023	ISSUED FOR TENDER	9. DT
NOV. 28 2022	ISSUED FOR 4TH SITE PLAN APPLICATION CIRCULATION	8. JK
NOV. 7 2022	ISSUED FOR 3RD SITE PLAN APPLICATION CIRCULATION	7. JK
AUG. 30 2022	ISSUED FOR PERMIT	6. JK
AUG. 29 2022	ISSUED FOR 2ND SITE PLAN APPLICATION CIRCULATION	5. JK
JUN. 3 2022	ISSUED FOR SITE PLAN APPROVAL & RESPONSE TO ZBLA COMMENTS	4. JK
FEB. 17 2022	ISSUED FOR SITE PLAN PRE-CONSULTATION	3. JK
DEC. 8 2021	ISSUED TO TRAFALGAR ENG PRIOR TO ARGO & MATTAMY REVIEW	2. JK
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REVISIONS

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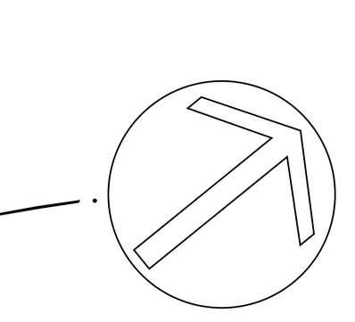
ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL H. TREGUNNO
MEMBER



HALTON DISTRICT SCHOOL BOARD

Strategy 4
- Development Consulting
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- Urban Works

2620 Bristol Circle, Suite 100
Oakville, On L6H 6Z7
t: (905) 829-2544

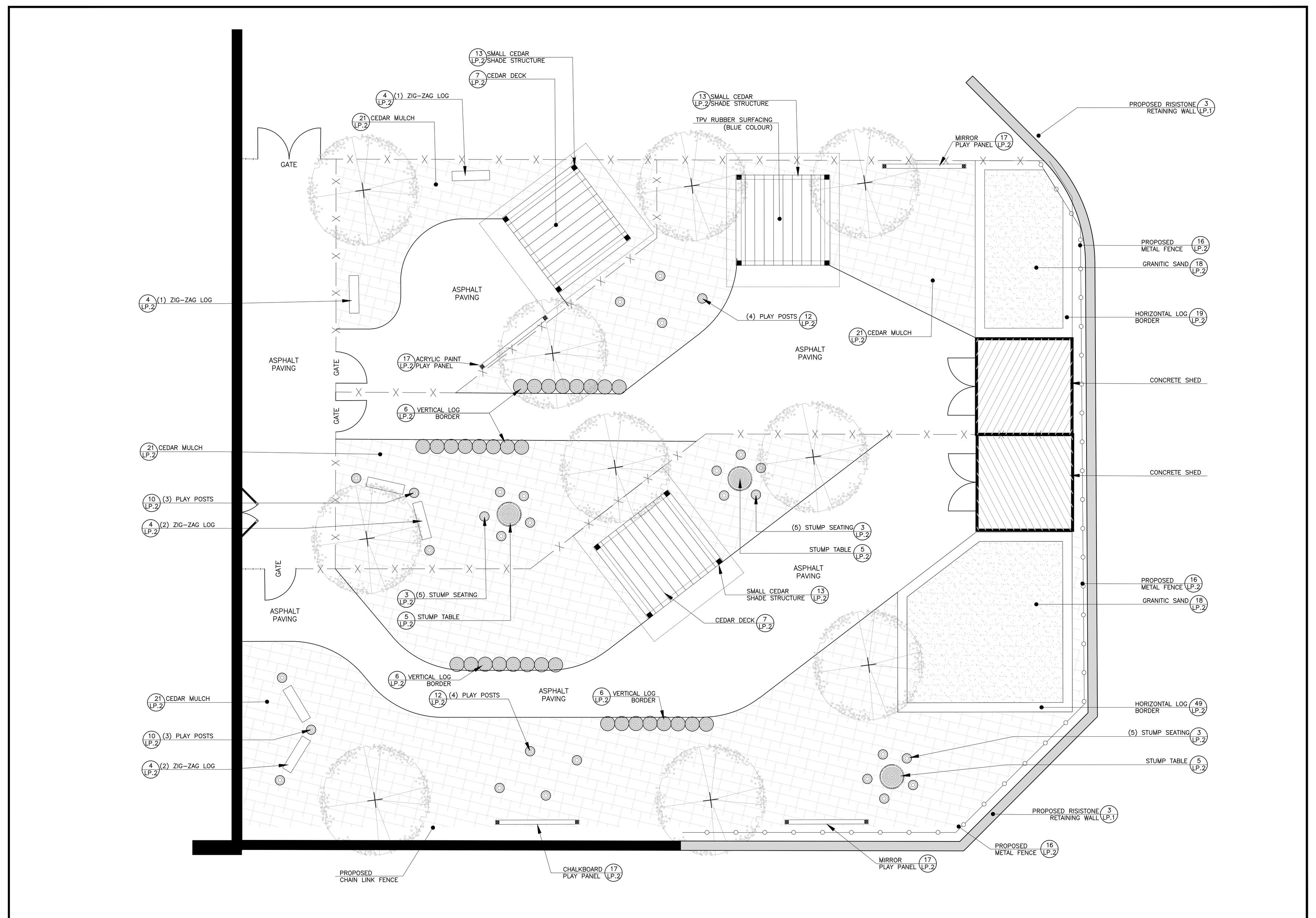
Project Name:
NORTH OAKVILLE #3 PUBLIC ELEMENTARY SCHOOL
1235 WHEAT BOOM DRIVE, OAKVILLE, ONTARIO

Sheet Description:
LANDSCAPE PLAN

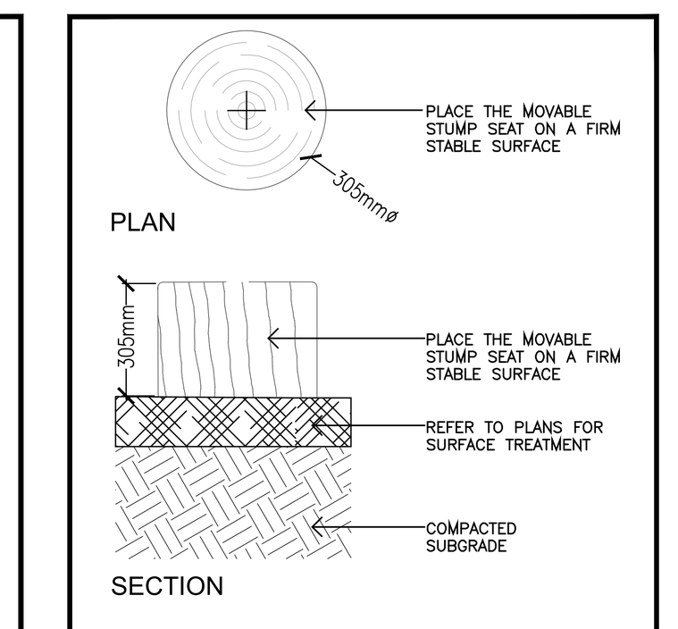
BLOCK 41 R-PLAN 20M-1247

Date: SEPT. 2021	Issued: DEC. 2022
Job No.: S4 3076	Drawn By.: ML/RO
Scale: 1:250	Checked By: DT
SHEET No.: LP.1 OF 2	File No.: 3076LP1-221219.DWG

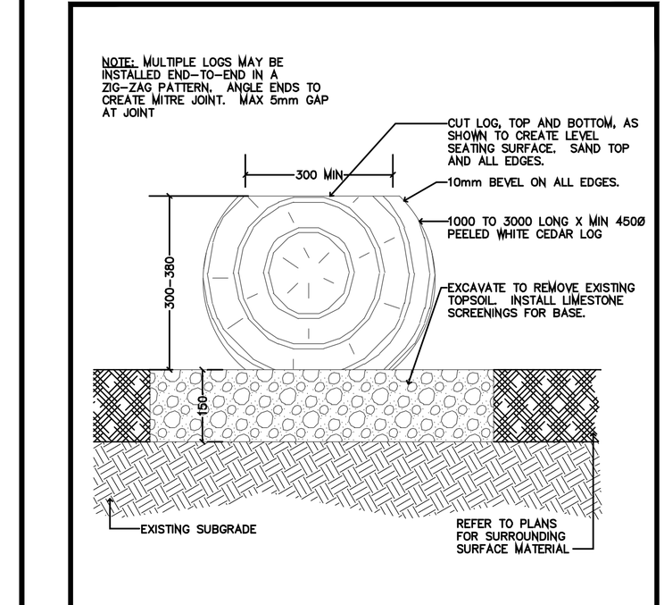
KINDERGARTEN PLAY AREA
SCALE: 1 : 100 (1 / LP.2)



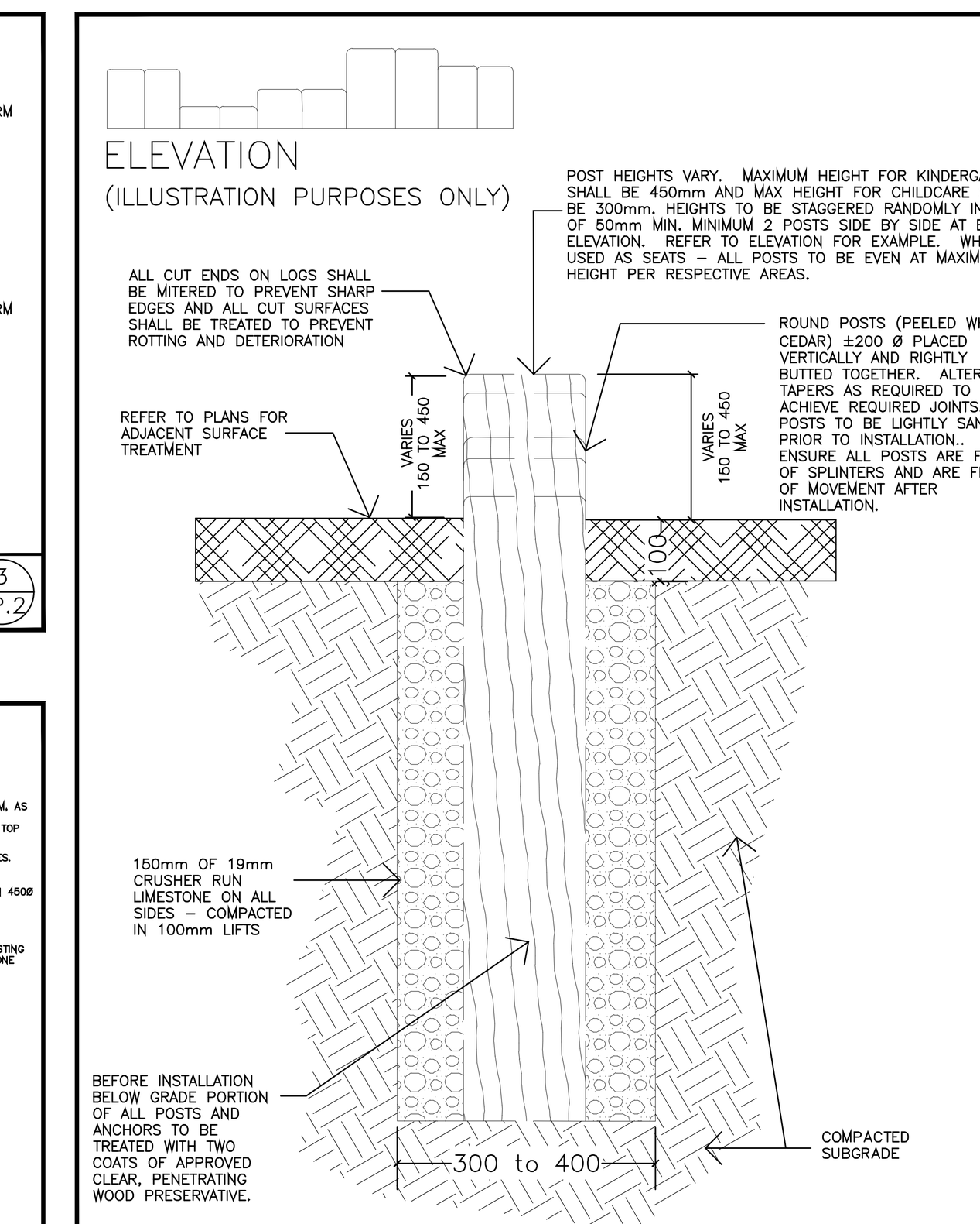
CHILDCARE PLAY AREA
SCALE: 1 : 100 (2 / LP.2)



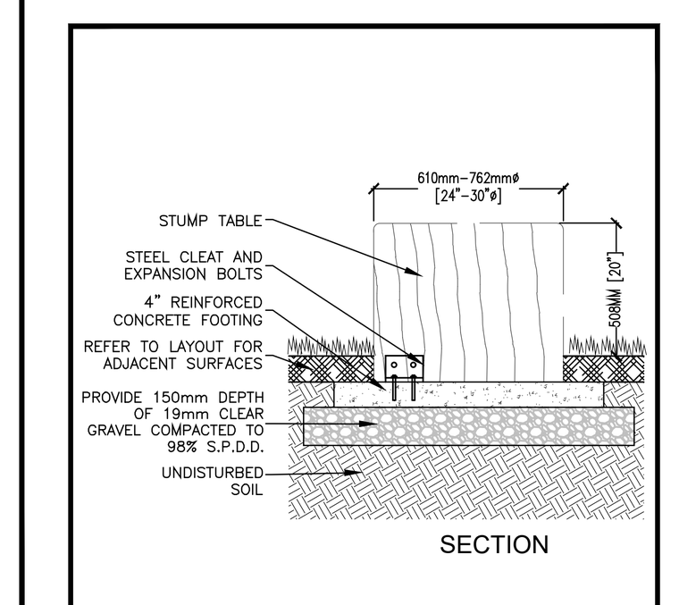
STUMP SEAT
SCALE: 1 : 20 (3 / LP.2)



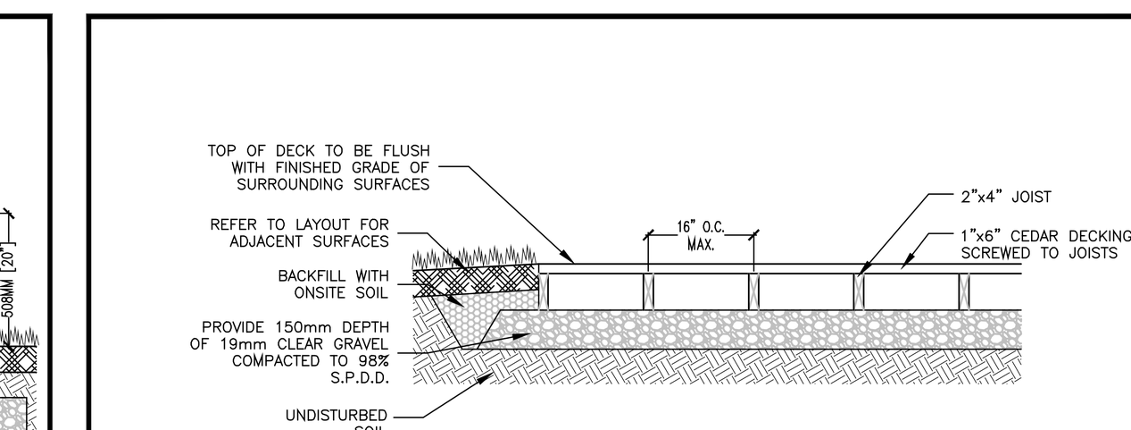
ZIG-ZAG LOG
SCALE: 1 : 15 (4 / LP.2)



VERTICAL LOG BORDER
SCALE = 1 : 1 0 (6 / LP.2)



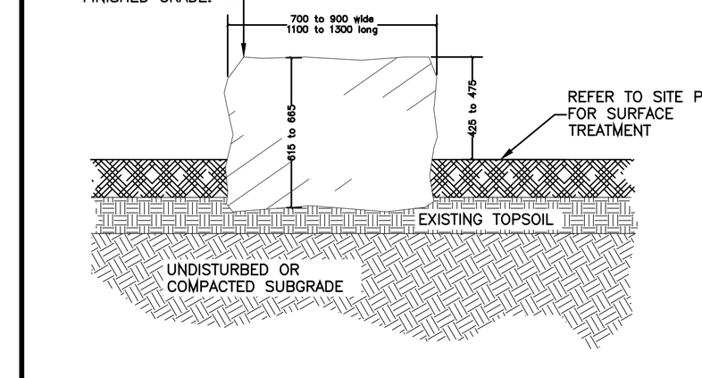
STUMP TABLE
SCALE: 1 : 30 (5 / LP.2)



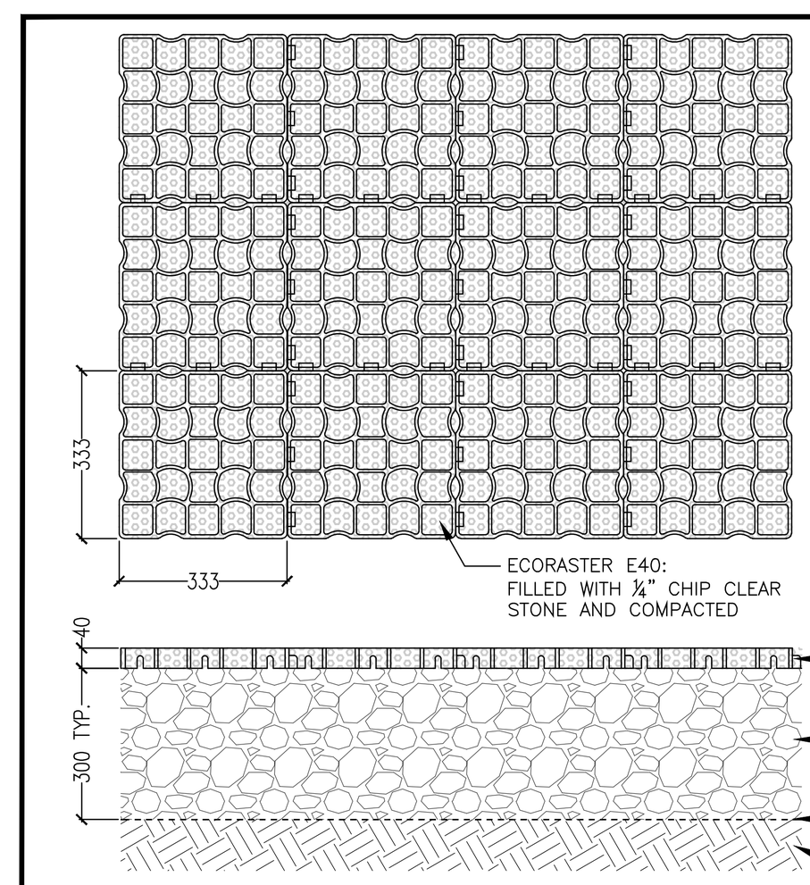
NOTES:
1. DECKING TO RUN PERPENDICULAR TO THE MAIN PATH OF TRAVEL UNLESS OTHERWISE NOTED.
2. JOINTS BETWEEN DECKING BOARDS NOT TO EXCEED 6mm [1/8"].
3. CUT EDGES OF DECKING SO THAT THE OUTSIDE PERIMETER OF THE DECK IS THE SAME SHAPE AS PER THE PLAN.
4. EXPOSED SURFACES SHALL BE GROUND AS NECESSARY TO ELIMINATE POTENTIAL FOR ABRASION AND SPLINTERING.

CEDAR DECK
SCALE: 1 : 30 (7 / LP.2)

BOULDERS TO BE IRREGULAR, FLAT-TOPPED NATURAL HARD STONE DOLOMITE (LIMESTONE) 'ARMOUR STONE' BOULDERS. NO CAP ROCK, SPALLING OR FLAKING. BOULDERS SHOULD BE UNIFORM IN SIZE AND SHAPE. 1100 TO 1300 LONG AND GENERALLY RECTANGULAR. NO SAW CUT EDGES WILL BE ACCEPTED BUT SHARP OR JAGGED EDGES SHOULD BE REMOVED. ALL BOULDERS TO BE INSTALLED WITH A MIN 150 BELOW FINISHED GRADE.

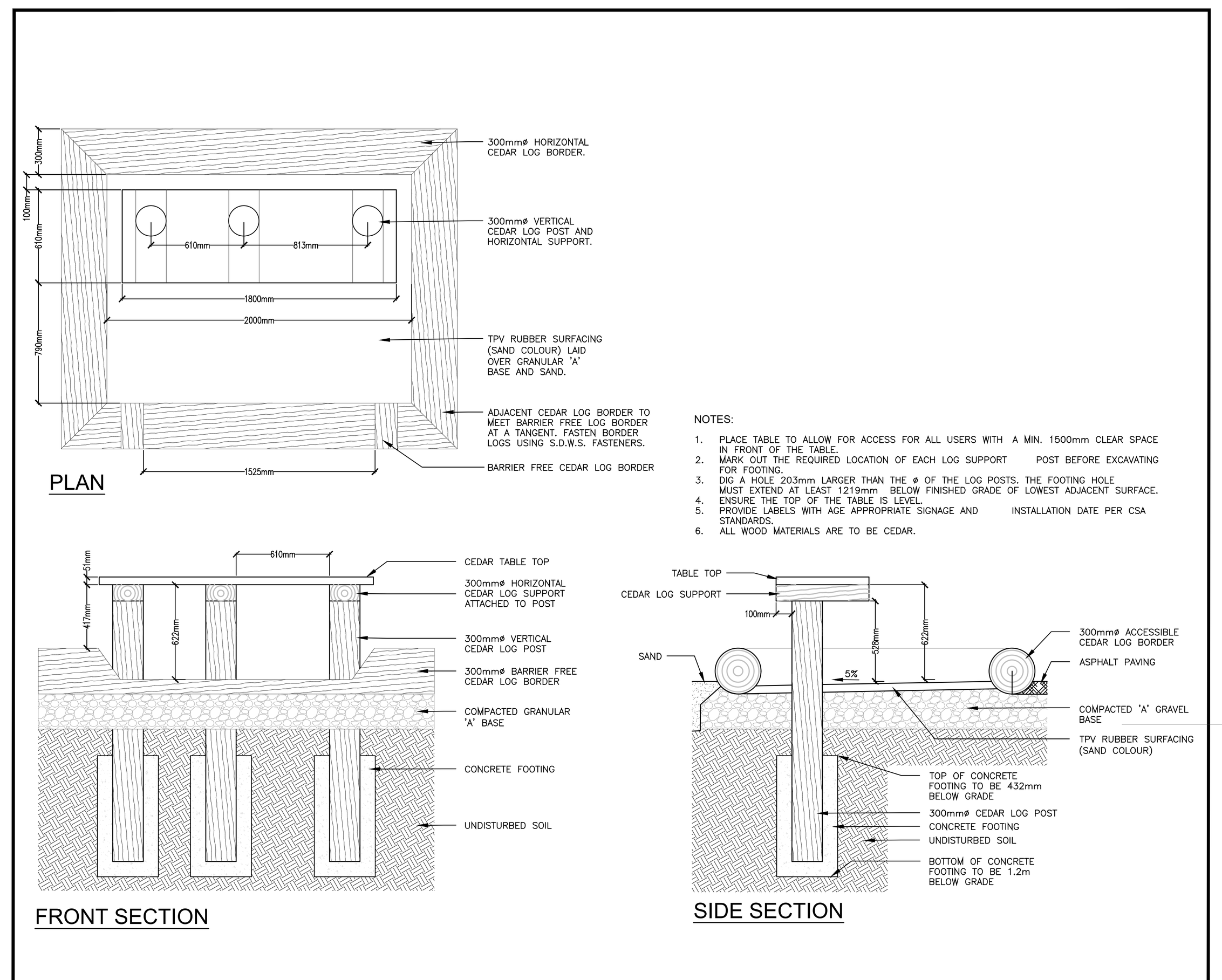


ARMOUR STONE
SCALE: 1 : 30 (8 / LP.2)



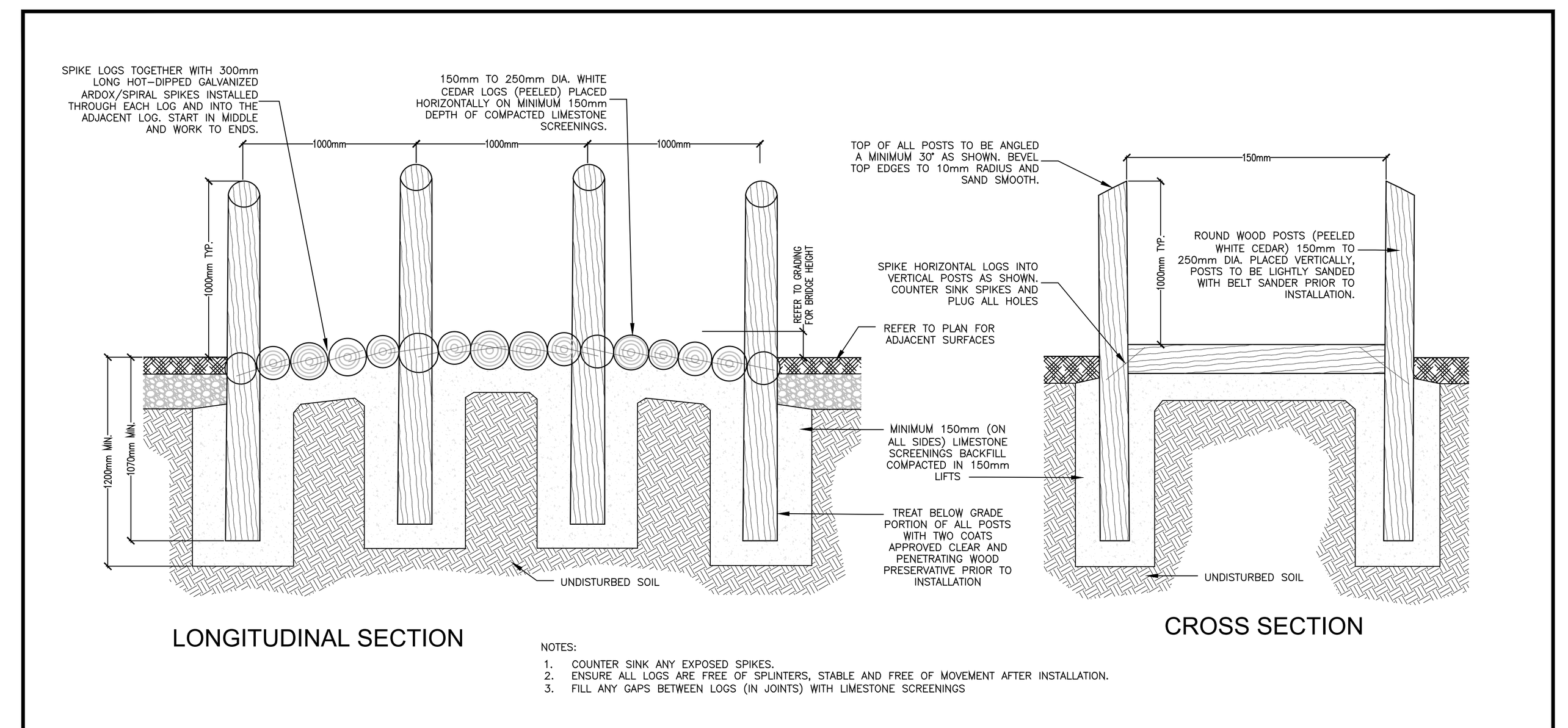
NOTES:
1. THICKNESS OF GRANULAR BASE LAYER DEPENDENT UPON SPECIFIC SITE & LOADING CONDITIONS.
2. ¼" CHIP CLEAR OR OTHER SUITABLE CLEAR STONE CAN BE USED FOR GRANULAR BASE LAYER TO INCREASE WATER STORAGE CAPACITY.
3. IF CLEAR STONE IS USED FOR GRANULAR LAYER, THEN A NON-WOVEN GEOTEXTILE SHOULD BE USED AS A SEPARATION LAYER BETWEEN THE CLEAR STONE BASE AND THE SUBGRADE.
4. DRAINAGE SYSTEM OF PERMEABLE PAVEMENT SYSTEM SHOULD BE DESIGNED TO ACCOMMODATE EXPECTED INFILTRATION RATES, STORAGE CAPACITIES, OUTLET FLOW RATES, AND OTHER SITE SPECIFIC CONDITIONS.
5. SUBGRADE SHOULD BE SLOPED TO AID IN DRAINAGE.
6. ALL DIMENSIONS IN mm UNLESS STATED OTHERWISE.

ECORASTER PATH
SCALE: 1 : 15 (9 / LP.2)



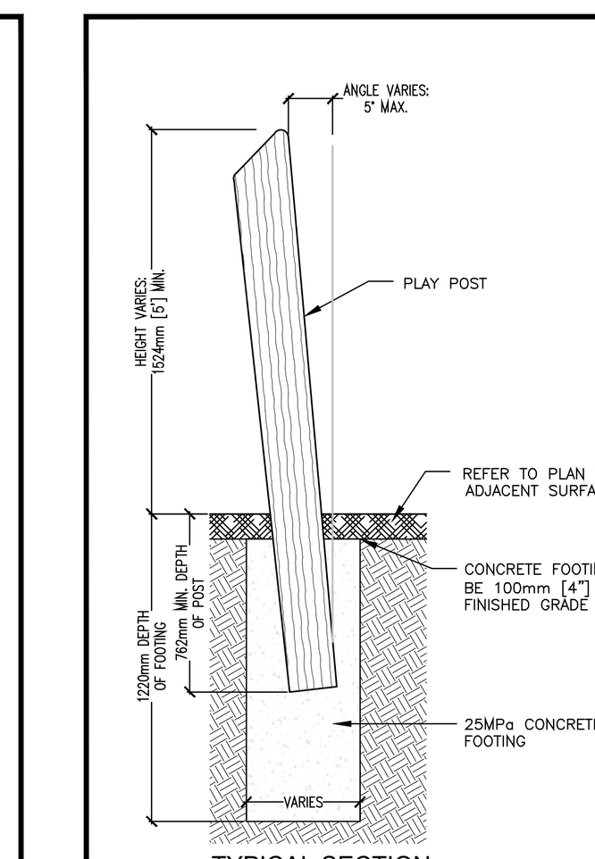
NOTES:
1. PLACE TABLE TO ALLOW FOR ACCESS FOR ALL USERS WITH A MIN. 1500mm CLEAR SPACE IN FRONT OF THE TABLE.
2. MARK OUT THE REQUIRED LOCATION OF EACH LOG SUPPORT POST BEFORE EXCAVATING FOR FOOTING.
3. DIG A HOLE 203mm LARGER THAN THE ø OF THE LOG POSTS. THE FOOTING HOLE MUST EXTEND AT LEAST 1219mm BELOW FINISHED GRADE OF LOWEST ADJACENT SURFACE.
4. ENSURE THE TOP OF THE TABLE IS LEVEL.
5. PROVIDE LABELS WITH AGE APPROPRIATE SIGNAGE AND INSTALLATION DATE PER CSA STANDARDS.
6. ALL WOOD MATERIALS ARE TO BE CEDAR.

SENSORY TABLE
SCALE: 1 : 30 (10 / LP.2)



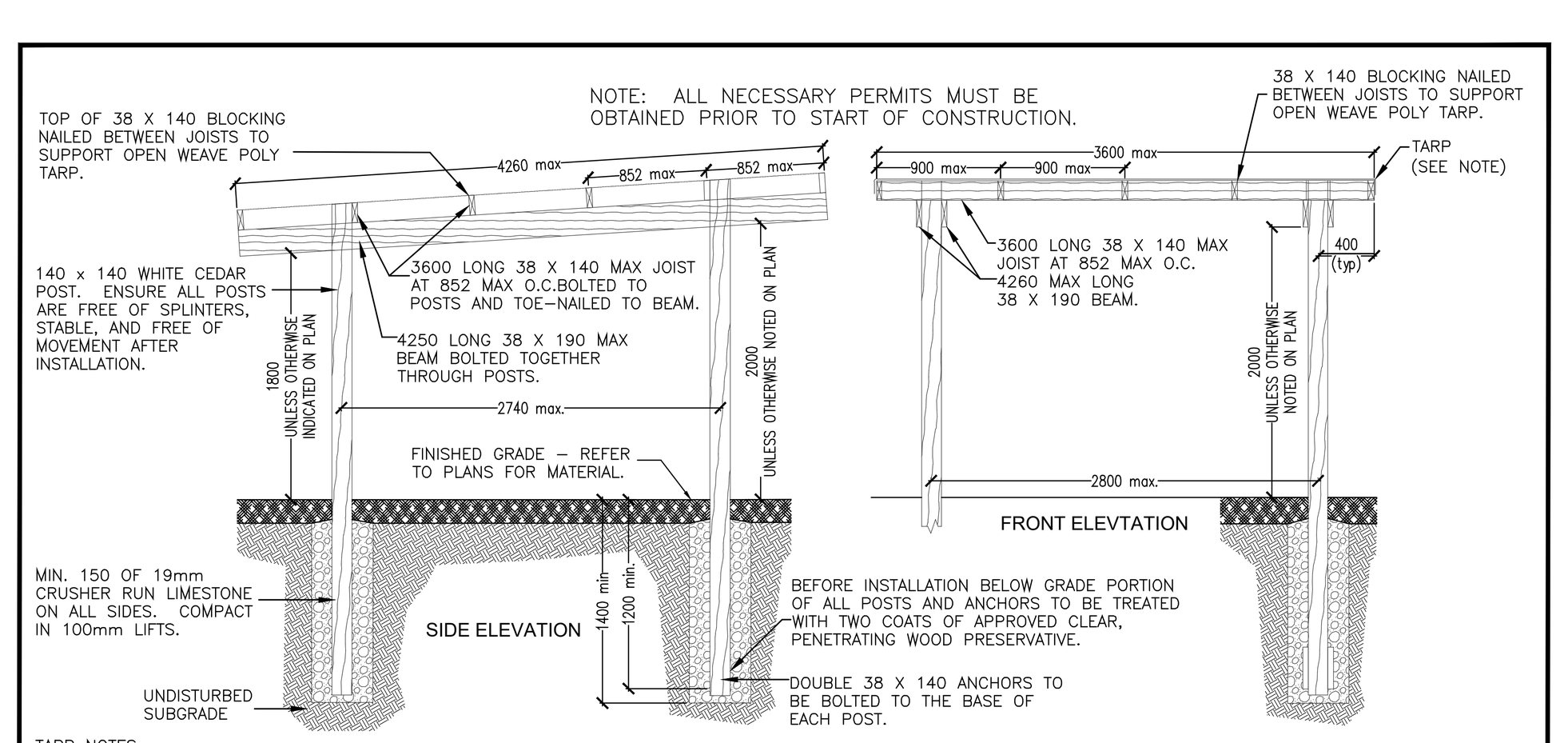
NOTES:
1. COUNTER SINK ANY EXPOSED SPIKES.
2. ENSURE ALL LOGS ARE FREE OF SPLINTERS, STABLE AND FREE OF MOVEMENT AFTER INSTALLATION.
3. FILL ANY GAPS BETWEEN LOGS (IN JOINTS) WITH LIMESTONE SCREENINGS

WOOD BRIDGE
SCALE = 1 : 30 (11 / LP.2)



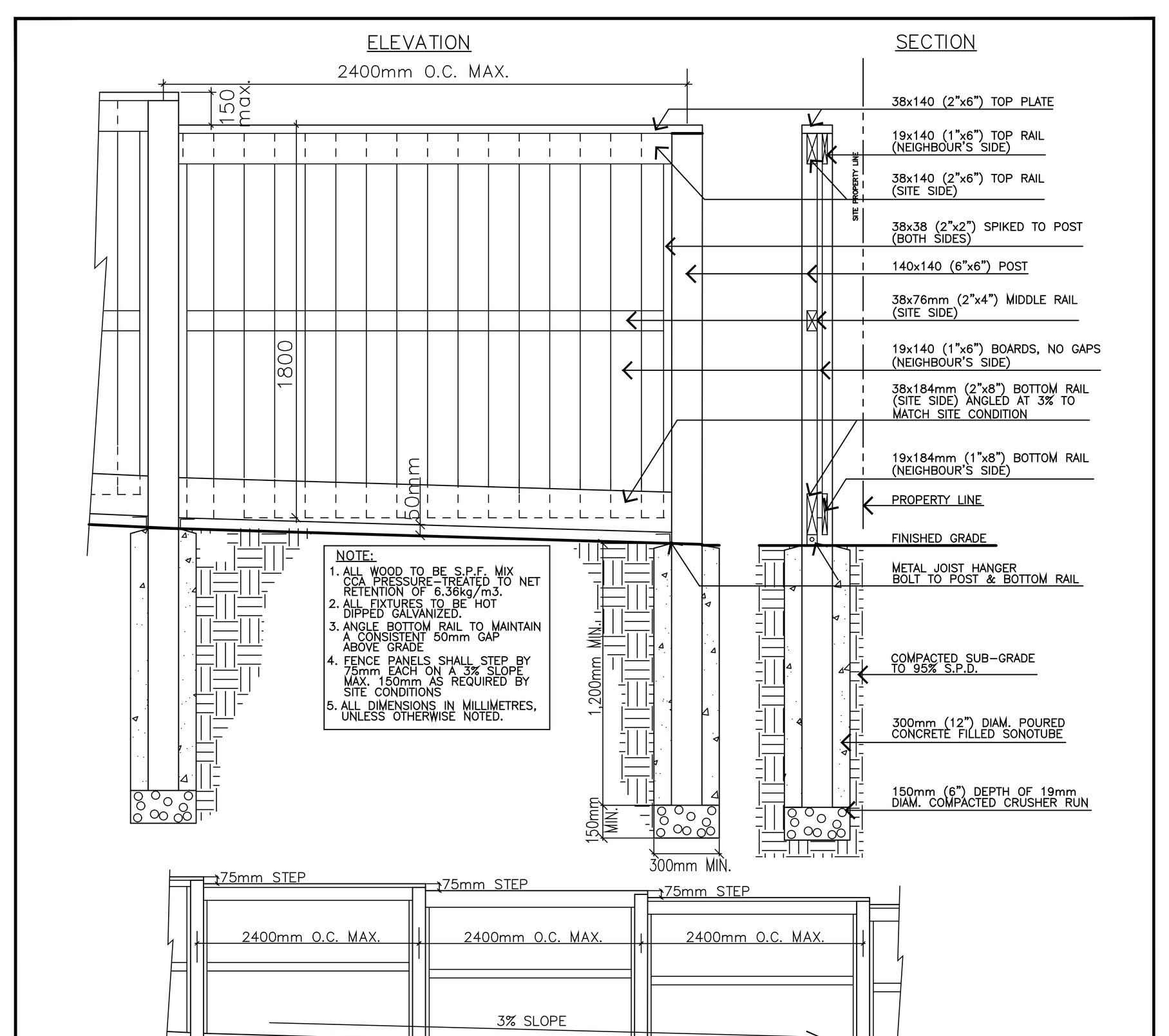
NOTES:
1. ENSURE WACKY POSTS ARE INSTALLED IN A RANDOM PATTERN OF VARYING HEIGHTS AND ANGLES.
2. THE DIAMETER OF THE FOOTING HOLE MUST BE AT LEAST 8" LARGER THAN THE DIAMETER OF THE WACKY POST.
3. FOOTING TO BE NON-VISIBLE; TOP OF CONCRETE TO REMAIN 100mm [4"] BELOW FINISHED SURFACE.

PLAY POST
SCALE: 1 : 30 (12 / LP.2)

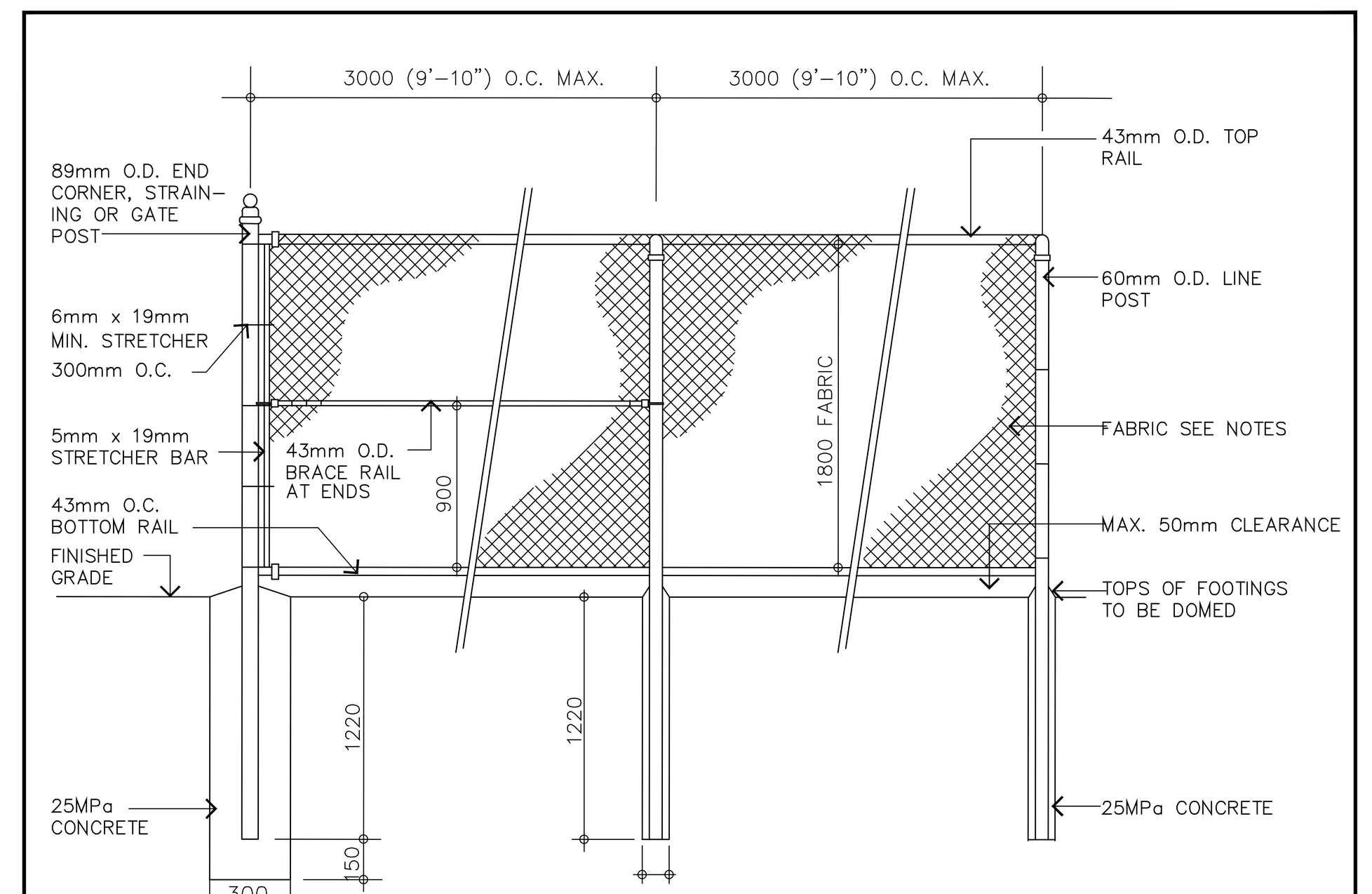


TARP NOTES:
SUPPLY AND INSTALL APPROVED 70% SHADE CLOTH - ROT-RESISTANT, OPEN WEAVE POLY MESH TARP. INSTALL OVER TOP AND WRAP DOWN 100mm OVER SIDES OF JOISTS AND SUPPORT FRAME. TARP TO BE MADE TO FIT FRAME WITH CORNERS NOTCHED TO FOLD NEATLY OVER SIDES. ALL EDGES TO BE REINFORCED WITH 50mm WEBBING AND TO BE SUPPLIED COMPLETE WITH HEAVY DUTY #3 SPUR GROMMETS AT ALL CORNERS AND MIN. 1000 O.C. SPACING ALONG ALL EDGES. COLOUR TO BE BLUE UNLESS OTHERWISE SPECIFIED. TARP TO BE FASTENED TO BLOCKS WITH HEAVY DUTY TWIST CLASPS AT ALL GOMMETS.

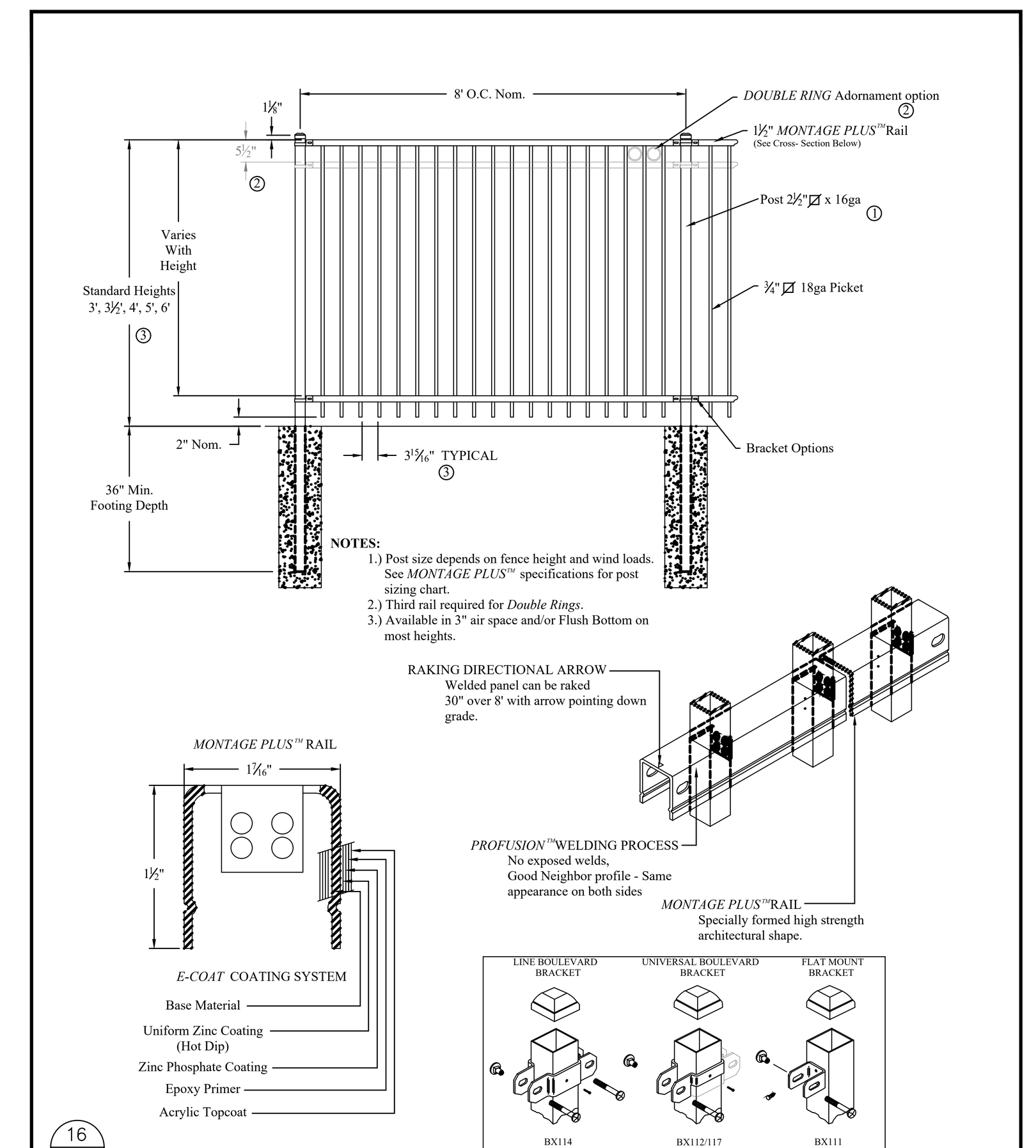
SMALL CEDAR SHADE STRUCTURE
SCALE: 1 : 30 (13 / LP.2)



1.8m HIGH WOOD FENCE
SCALE: 1 : 25 (14 / LP.2)



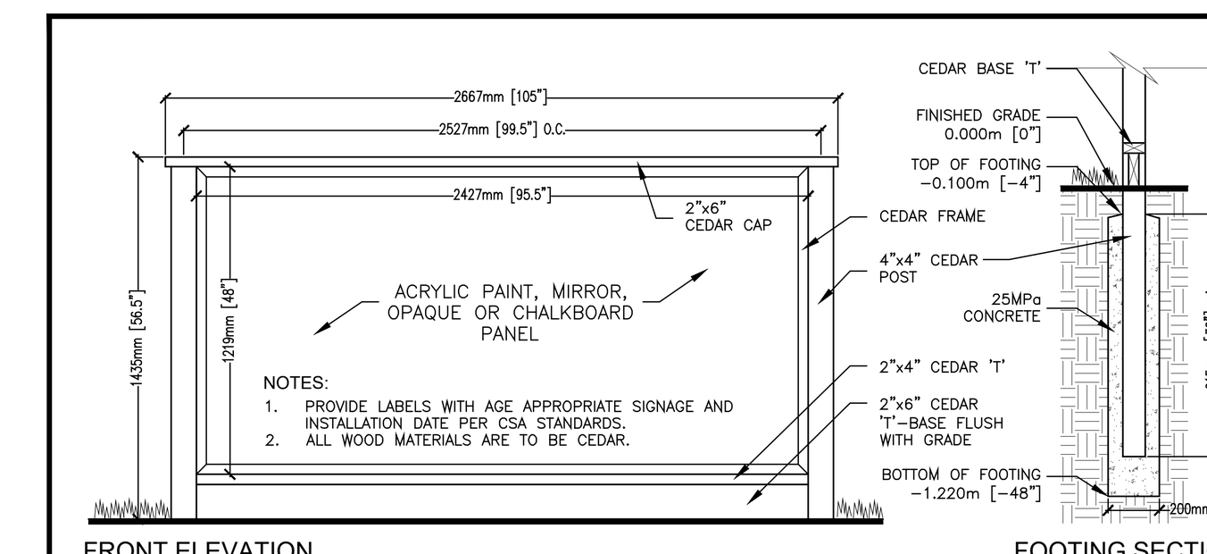
1.8m BLACK VINYL CHAIN LINK FENCE
SCALE: N.T.S. (15 / LP.2)



(16 / LP.2)

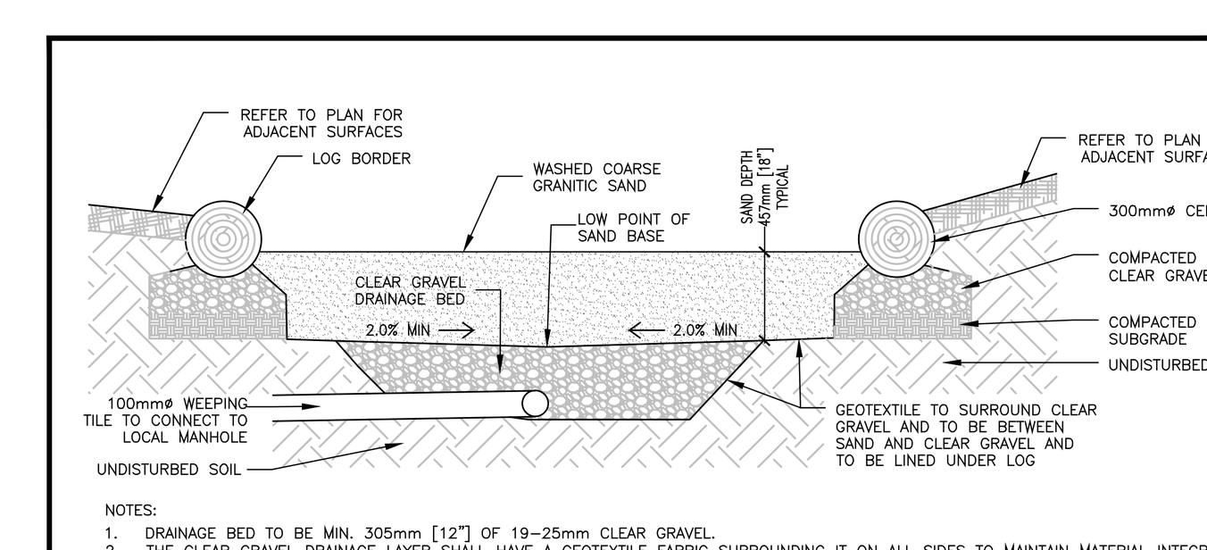
COMMERCIAL STRENGTH WELDED STEEL PANEL
PRE-ASSEMBLED OR APPROVED ALTERNATE THAT MEETS OR EXCEEDS THIS STANDARD.

Title: MONTAGE PLUS MAJESTIC 2/3-RAIL				AMERISTAR®	1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com
DR: NJB	SH. 1of 1	SCALE: DO NOT SCALE			
CK: BS	Date 09/21/11		REV: e		



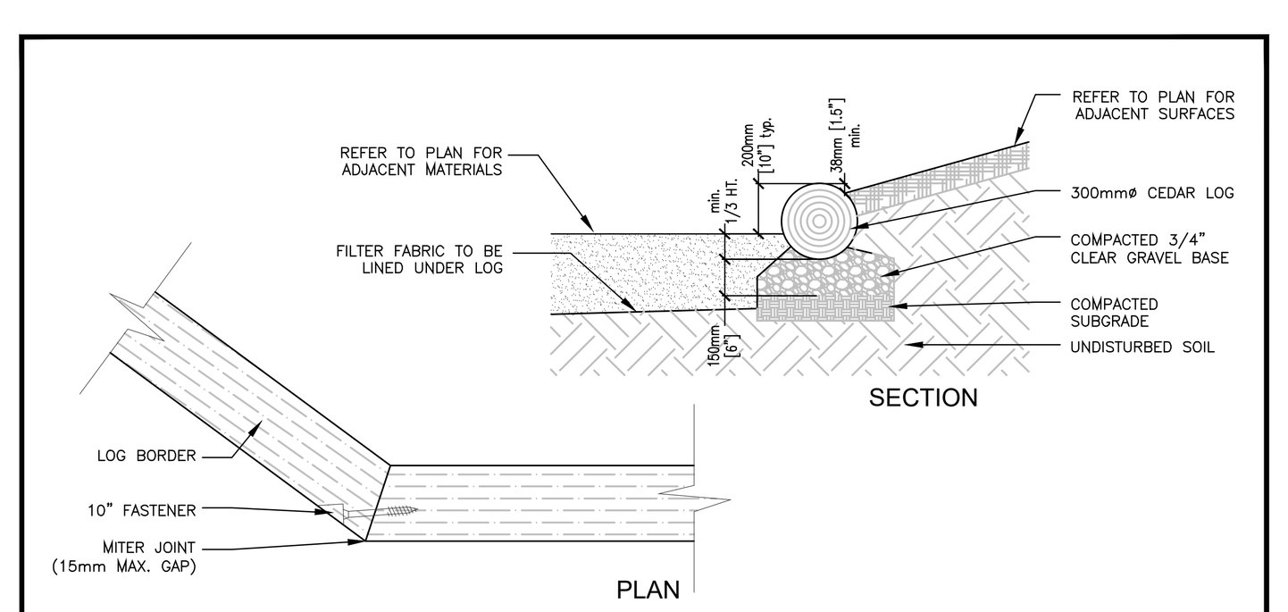
NOTES:
1. PROVIDE LABELS WITH AGE APPROPRIATE SIGNAGE AND INSTALLATION DATE PER CSA STANDARDS.
2. ALL WOOD MATERIALS ARE TO BE CEDAR.

PLAY PANEL
SCALE: 1 : 30 (17 / LP.2)

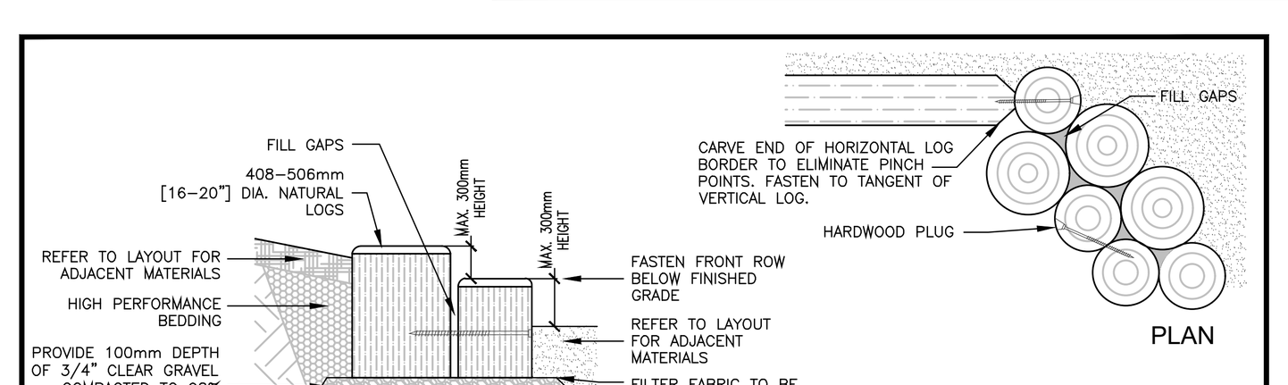


NOTES:
1. DRAINAGE BED TO BE MIN. 305mm [12"] OF 19-25mm CLEAR GRAVEL.
2. THE CLEAR GRAVEL DRAINAGE LAYER SHALL HAVE A GEOTEXTILE FABRIC SURROUNDING IT ON ALL SIDES TO MAINTAIN MATERIAL INTEGRITY.
3. SAND IS INTENDED FOR USE AS PLAY MATERIAL AND SHALL COMPLY WITH CAN/CSA Z614-07 CLAUSE 10.1 AND TABLE D.1 SAND.
4. SAND SURFACE SHALL BE APROXX. 100mm [4"] BELOW THE ELEVATION OF SURROUNDING SURFACES.

GRANITIC SAND
SCALE: 1 : 30 (18 / LP.2)

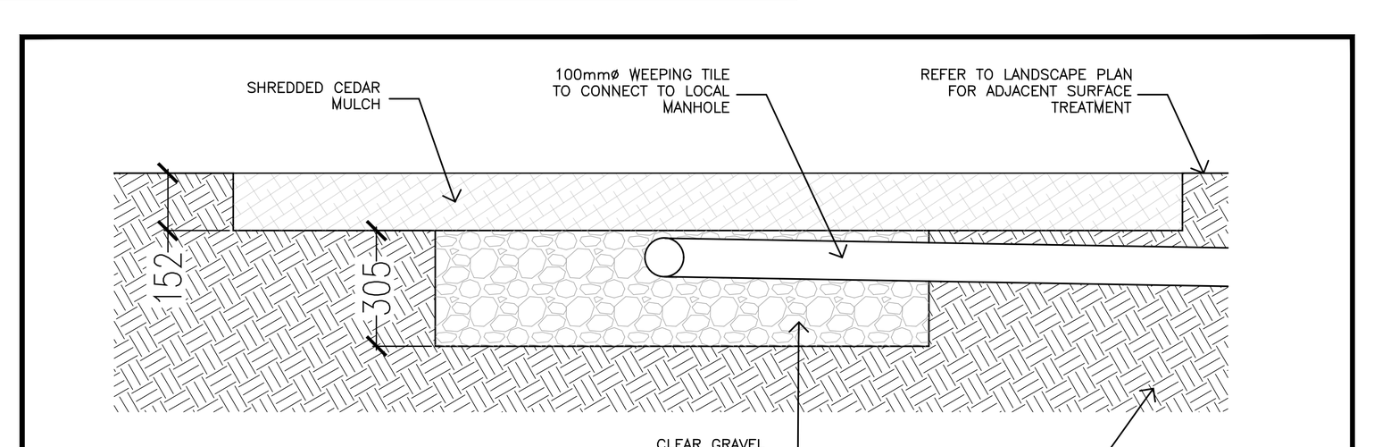


300mmØ HORIZONTAL LOG BORDER
SCALE: 1 : 30 (19 / LP.2)



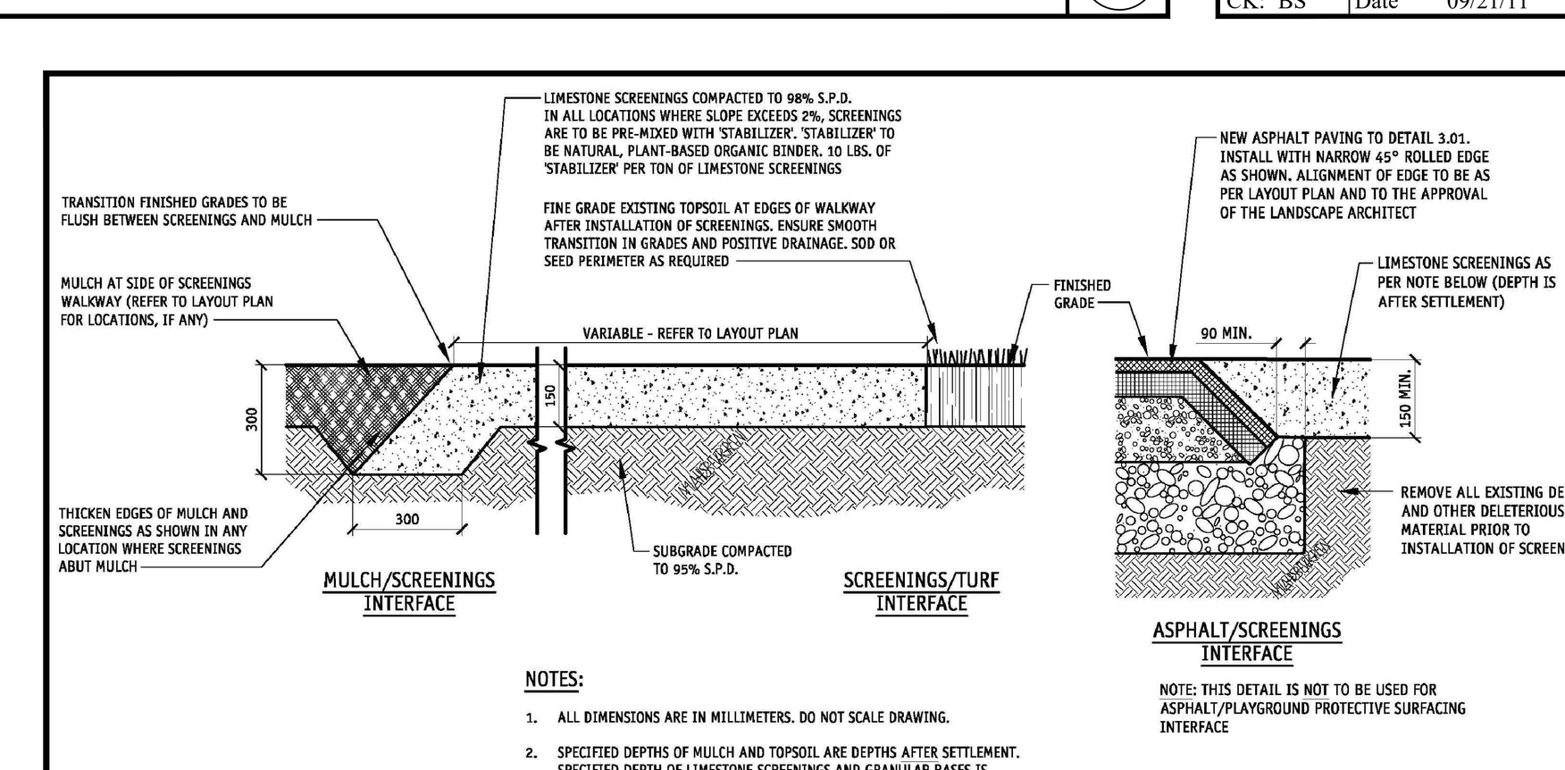
NOTES:
1. MAINTAIN BARK ON LOGS WHEREVER POSSIBLE.
2. FRONT ROW OF LOGS ARE TO BE INSTALLED SO THAT THE TOP SURFACE OF EACH LOG IS NO MORE THAN 300mm [12"] ABOVE FINISHED GRADE.
3. IF LOGS ARE USED TO RETAIN A LOOSE FILL MATERIAL, FILTER FABRIC IS TO BE INSTALLED UNDER THE LOGS AND CONTINUE UNDER THE LOOSE FILL MATERIAL TO PREVENT ACCESS TO THE BASE COARSE AND EXISTING SUB-GRADE.
4. ENSURE EACH LOG IS SET PLUMB AND STABLE.
5. ALL GAPS BETWEEN LOGS ARE TO BE FILLED WITH SCREENINGS MIXED WITH A STABILIZER MIX PROPORTIONS AS RECOMMENDED.
6. MAKE SURE THAT THE WOOD SURFACES AROUND THE GAPS ARE CLEAN AND FREE OF OILS, WAXES, AND BARK (WHILE MAINTAINING BARK ON ALL OTHER LOCATIONS) TO ENSURE PROPER ADHESION OF THE CURED CAULKING.

LOG CLUSTER
SCALE: 1 : 30 (20 / LP.2)



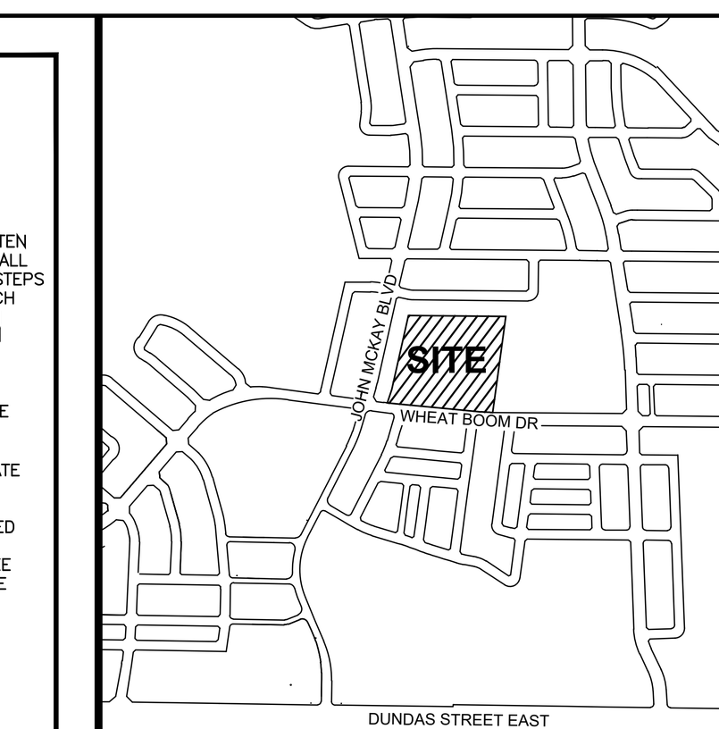
NOTES:
1. ELIMINATE ALL LARGE CHUNK OF WOOD OR FOREIGN OBJECTS.
2. MULCH TO BE A DEPTH OF 152mm (6").
3. COMPACT SHREDDED CEDAR MULCH WITH MECHANICAL COMPACTION EQUIPMENT.
4. MEET ELEVATION OF EDGES WITH ADJACENT SURFACING.
5. FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.
6. WHERE SHREDDED CEDAR MULCH MEETS HARD SURFACES, COMPACT MULCH AND ADD MULCH UNTIL MULCH SURFACE IS EXACTLY THE SAME ELEVATION AS THE HARD SURFACE.

CEDAR MULCH
SCALE: 1 : 20 (21 / LP.2)



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS. DO NOT SCALE DRAWING.
2. SPECIFIED DEPTHS OF MULCH AND TOPSOIL ARE DEPTHS AFTER SETTLEMENT. SPECIFIED DEPTH OF LIMESTONE SCREENINGS AND GRANULAR BASES IS COMPACTED DEPTH.
3. LIMESTONE SCREENINGS TO BE A FINE CRUSHED LIMESTONE PRODUCT COMPOSED OF 50% LIMESTONE DUST AND THE BALANCE COMPOSED OF AN EVEN SPREAD OF PARTICLES UP TO 3 mm SIZE.
4. INSTALLATION OF LIMESTONE SCREENINGS TO BE TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND/OR HDSB REGIONAL SUPERVISOR.

LIMESTONE SCREENINGS
SCALE: NTS (DETAIL PROVIDED BY HDSB - STRATEGY4 ASSUMES NO RESPOSIBILITY) (22 / LP.2)



KEY PLAN
N.T.S.

BASE INFORMATION TAKEN FROM DRAWING(S) BY OTHERS. S4 DOES NOT ASSUME ANY RESPONSIBILITY FOR ERRORS, OMMISIONS OR ACCURACY OF THE INFORMATION. DRAWINGS SHALL ONLY BE USED FOR GUIDELINE PURPOSES ONLY.

LEGEND:
- PROPERTY LINE
- PROPOSED CEDAR MULCH
- PROPOSED ECORASTER PATH W/ LIMESTONE SCREENINGS
- PROPOSED GRANITIC SAND
- PROPOSED CONIFEROUS TREES
- PROPOSED DECIDUOUS TREES
- PROPOSED PLANTING
- PROPOSED CATCH BASIN
- PROPOSED LAMP POST

DATE	DESCRIPTION	CHECKED BY
JAN. 4 2023	ISSUED FOR TENDER	9. DT
NOV. 7 2022	ISSUED FOR 3RD SITE PLAN APPLICATION CIRCULATION	7. JK
AUG. 30 2022	ISSUED FOR PERMIT	6. JK
AUG. 29 2022	ISSUED FOR 2ND SITE PLAN APPLICATION CIRCULATION	5. JK
JUN. 3 2022	ISSUED FOR SITE PLAN APPROVAL & REPSONSE TO ZBLA COMMENTS	4. JK
FEB. 17 2022	ISSUED FOR SITE PLAN PRE-CONSULTATION	3. JK
DEC. 8 2021	ISSUED TO TRAFALGAR ENG PRIOR TO ARGO & MATTAMY REVIEW	2. JK
NOV. 24 2021	ISSUED TO HDSB TO PROVIDE TO ARCHITECTS	1.JK

REVISIONS

NOTE: Contractor is to check and verify all dimensions and conditions on the project, and is immediately report any discrepancies to the landscape architect before proceeding with the work.

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL H. TREGUNNO
MEMBER

HALTON DISTRICT SCHOOL BOARD

Strategy 4
- Development Consulting
- Urban Transformation
- Urban Design
- Urban Works

2620 Bristol Circle, Suite 100
Oakville, On L6H 6Z7
t: (905) 829-2544

Project Name:
NORTH OAKVILLE #3
PUBLIC ELEMENTARY SCHOOL
1235 WHEAT BOOM DRIVE, OAKVILLE, ONTARIO

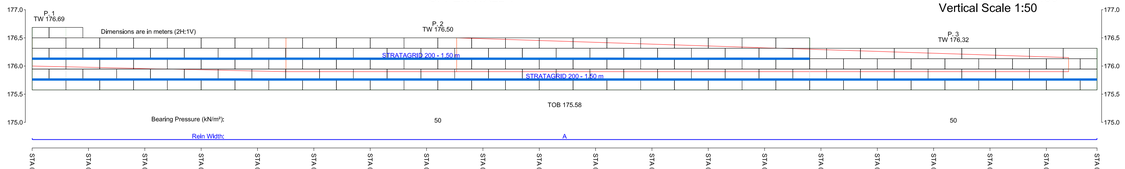
Sheet Description:
KINDERGARTEN/CHILDCARE
PLAY AREAS AND DETAILS
BLOCK 41 R-PLAN 20M-1247

Date: SEPT. 2021	Issued: DEC. 2022
Job No.: S4 3076	Drawn By.: ML/RO
Scale: AS SHOWN	Checked By: DT
SHEET No.: LP.2 OF 2	File No.: 3076LP2-221219.DWG

WA;LL ELEVATION VIEW

Horizontal Scale 1:100
Vertical Scale 1:50

UPPER WALL 1



Reinforcement Legend
SG200 StrataGrid 200

Station No.	Origin	Top Elev.	Bottom Elev.
1	0.00	176.50	176.00
2	9.01	176.50	175.90
3	15.07	176.50	175.90
4	36.79	176.15	175.90

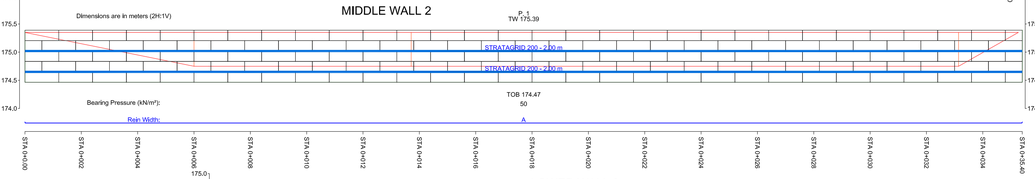
Column Geometry

Column No.	Top Elev.	Base Elev.	Left Stn.	Right Stn.	Width in Blocks
1	176.69	175.58	0.00	1.20	1.00
2	176.50	175.58	1.20	27.60	22.00
3	176.32	175.58	27.60	37.80	8.50

Geogroups

Group	Layer	Length (m)	Panels	Wall Span (m)
A	All	1.50	1 - 3	0.00 - 37.80

MIDDLE WALL 2



Reinforcement Legend
SG200 StrataGrid 200

Station No.	Origin	Top Elev.	Bottom Elev.
1	0.00	175.35	175.35
2	6.00	175.35	174.75
3	13.71	175.35	174.75
4	33.14	175.35	174.75
5	35.26	175.35	175.35

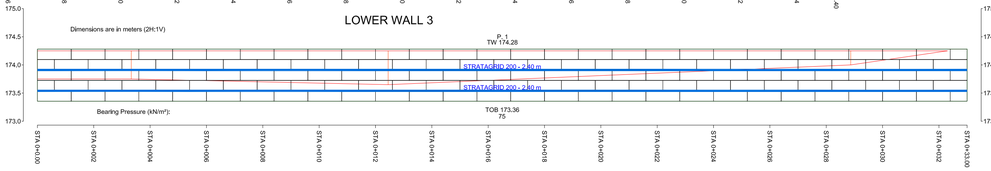
Column Geometry

Column No.	Top Elev.	Base Elev.	Left Stn.	Right Stn.	Width in Blocks
1	175.39	174.47	0.00	35.40	29.50

Geogroups

Group	Layer	Length (m)	Panels	Wall Span (m)
A	All	2.00	1 - 1	0.00 - 35.40

LOWER WALL 3



Reinforcement Legend
SG200 StrataGrid 200

Station No.	Origin	Top Elev.	Bottom Elev.
1	0.00	174.25	173.75
2	3.33	174.25	173.75
3	12.45	174.25	173.65
4	28.87	174.25	174.00
5	32.30	174.25	174.25

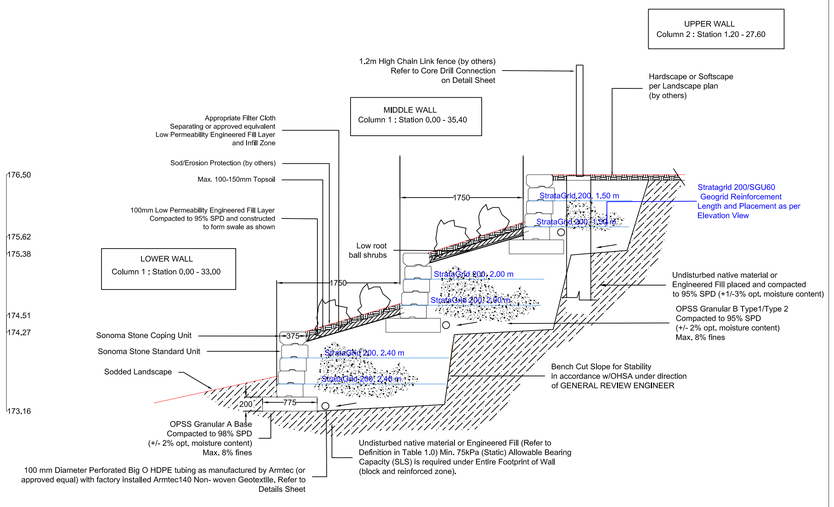
Column Geometry

Column No.	Top Elev.	Base Elev.	Left Stn.	Right Stn.	Width in Blocks
1	174.28	173.36	0.00	33.00	27.50

WALL FOOT PRINT OVERLAID

TYPICAL MAXIMUM HEIGHT SECTION

Scale 1:40



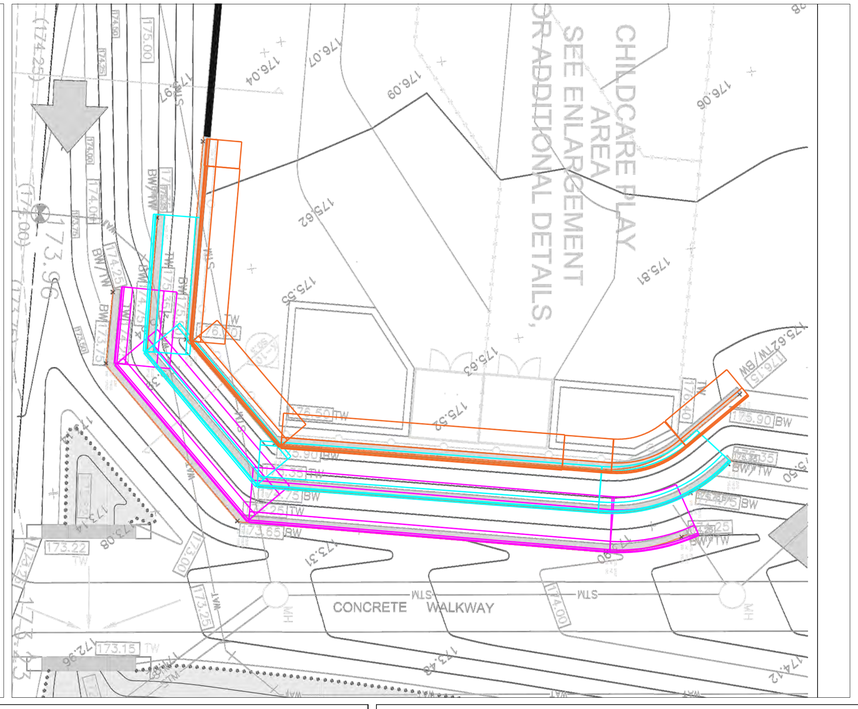


TABLE 1.0 - SOIL ZONES & ASSUMED PROPERTIES

MUST BE VERIFIED BY GENERAL REVIEW ENGINEER - REFER TO SECTION 3.03 OF SPECIFICATION

Soil Region	Reinforced Fill	Retained Fill/Soil**	Foundation Soil**	Base	Drainage Fill (as req. - ref to section)
Description (by USCS)	GW Well graded gravel Max. 8% fines	ML-CL Lean Silty Clay Low Plasticity	ML-CL Lean Silty Clay Low Plasticity	GW Well graded gravel Max. 8% fines	GP Gap graded, rapid draining gravel
Effective Internal Friction Angle (Deg.)	35*	28*	28*	39*	NA
Compaction Requirement (Eng. Fills Only)	95% SPD (+/- 2% opt. moist.)	95% SPD (+/- 2% opt. moist.)	98% SPD (+/- 2% opt. moist.)	98% SPD (+/- 2% opt. moist.)	Dense State
Moist Unit Weight (kN/cu.m)	22	20	20	22	18
Effective Cohesion (kPa)	NA	NA	NA	NA	NA
Soil Notes	Max. 150-200mm Compaction Lifts	Max. 150-200mm Compaction Lifts	See Section for req. ALLOW Bearing Capacities	Max. 150-200mm Compaction Lifts	Max. 150-200mm Compaction Lifts
Geotextile at Interface	Interface: Reinforced/Retained Geotextile Not Req. If gradations listed below are met. Otherwise : TBD		NA	NA	NA
Assumed Gradation for Filtration Req.*	**D(15) <0.3mm D(50) <1.18mm MAX 8% FINES**	**D(85) >0.075mm D(15) <0.002mm D(50)>0.05mm**	NA	NA	NA

* If the above gradation requirements are not met, an alternative filter fabric will be required. Contact RSS to discuss alternatives.

** Engineered Fill is defined as Clean earth fill placed and compacted in maximum lift thicknesses of 150mm to at least 98 percent Standard Proctor Density for Foundation Soils and 95 percent Standard Proctor Density for Retained Soils, under the full-time inspection and testing of a geotechnical engineering firm who provides written confirmation and certification of the completed Engineered Fill.

TABLE 2.0 - DESIGN INFORMATION

Retaining Wall System	Max. Slope Above Wall	Max. Surcharge Above Wall (kPa)	Batter of Wall (Degrees)	Maximum Height (mm)
Sonoma Stone Manufactured by Unilock Inc.	None	Terrace	7.12	See Section

Geogrid Type	Min. Geogrid LTDS (kN / m)	Max. Slope Below Wall	Depth of Embedment (mm)	Compacted Base Dimensions (mm height x mm width)
Stratagrid 200/SGU60 by Stratagsystems	26	6H:1V	See Elevation	200 x 775

GENERAL NOTES

1. THE INFORMATION PROVIDED ON THIS SHEET MUST BE USED IN CONJUNCTION WITH THE ATTACHED SPECIFICATIONS.

2. THIS DESIGN IS BASED ON INFORMATION PROVIDED IN SITE GRADING PLAN DRAWING SG-1 DATED NOV 7 2022 BY STRATEGY 4, OAKVILLE, ON. THE WALL CONTRACTOR AND GENERAL CONTRACTOR ARE REQUIRED TO HAVE A COMPLETE UNDERSTANDING OF ANY AND ALL OTHER STRUCTURES THAT MAY INTERFACT WITH THIS SEGMENTAL RETAINING WALL. THE WALL CONTRACTOR AND GENERAL CONTRACTOR MUST REFER TO A FULL SET OF CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS (AS APPLICABLE) FOR THE PROJECT TO ENSURE SUCCESSFUL CONSTRUCTION AND PERFORMANCE OF THE WALL SYSTEM. THIS WALL DESIGN DRAWING SHOULD NOT BE REFERRED TO FOR MANHOLE LOCATIONS, ELEVATIONS, OR ANY OTHER CIVIL OR SITE INFRASTRUCTURE INFORMATION BECAUSE DATA MAY HAVE BEEN SELECTIVELY REMOVED FROM THIS DRAWING FOR CLARITY OF WALL ILLUSTRATION.

3. DESIGN ASSUMPTIONS:
THE SRW DESIGN ASSUMES THE FOLLOWING,
A) THE FOUNDATION SOILS WILL PRODUCE ACCEPTABLE TOTAL AND DIFFERENTIAL SETTLEMENT GIVEN THE APPLIED LOAD OF THE SRW (MAX. 25 mm TOTAL OR DIFFERENTIAL SETTLEMENT AS VERIFIED BY GRE),
B)THE MAXIMUM GROUNDWATER ELEVATION IS BELOW THE BASE OF THE SRW,
C)THERE WILL BE NO HYDROSTATIC PRESSURE WITHIN OR BEHIND THE SRW,
D) THE SURROUNDING STRUCTURES WILL NOT EXERT ANY ADDITIONAL LOADING ON THE SRW (I.E. AN ADJACENT STRUCTURAL FOUNDATION IS AT OR BELOW PROPOSED LEVELING BASE OR OUTSIDE OF A THEORETICAL ZONE OF INFLUENCE AS DETERMINED BY THE GENERAL REVIEW ENGINEER),
E) THERE ARE NO STRUCTURES (UTILITIES SUCH AS GAS/WATER MAINS, STORM SEWERS, ELECTRICAL/COMMUNICATIONS CABLES, ETC) TO BE PLACED WITHIN OR BELOW THE REINFORCED FILL DURING OR AFTER CONSTRUCTION.

4. AT THIS STAGE IN THE DESIGN, RISI STONE SYSTEMS HAS NOT RECEIVED SITE SPECIFIC GEOTECHNICAL INFORMATION / GEOTECHNICAL REPORT. FOR DESIGN PURPOSES, WE HAVE ASSUMED A SET OF GEOTECHNICAL PARAMETERS, UPON EXCAVATION OR FURTHER EXPLORATION IN THE WALL LOCATION(S), THESE DESIGN PARAMETERS MUST BE VERIFIED AS BEING ACCEPTABLE BY THE GENERAL REVIEW ENGINEER (REFER TO NOTE 6) OR REVISED PARAMETERS MUST BE PROVIDED FOR A REDESIGN. BOTH THE CONTRACTOR AND THE PRIME CONSULTANT MUST BE ADVISED THAT THE DESIGN MAY HAVE TO BE ALTERED BASED ON ACTUAL CONDITIONS FOUND ON SITE. ALTERATION OF THE DESIGN MAY RESULT IN ADDITIONAL CONSTRUCTION COSTS AND PROJECT DELAYS. IT IS RECOMMENDED THAT CONTINGENCIES BE ADDRESSED IN THE CONTRACT TO UNDERTAKE THE WALL CONSTRUCTION FOR DEALING WITH THE DISCOVERY OF UNFAVORABLE SOIL CONDITIONS.

5. THIS DESIGN MUST BE CHECKED WITH THE FINAL GRADING PLAN TO VERIFY ACCURACY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE WALL LAYOUT(S) PROVIDED MATCH THE FINAL SITE GRADING. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO BIDDING / CONSTRUCTION. RISI STONE SYSTEMS MAKES EVERY EFFORT TO ENSURE ACCURACY OF THE DESIGN. HOWEVER, AS INFORMATION PROVIDED MAY HAVE BEEN UNKNOWINGLY OUT OF DATE, UNCLEAR IN AREAS, OR INCORRECT, IT IS ULTIMATELY THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE DIMENSIONS AND ELEVATIONS (QUANTITIES) OF THE WALL(S) WITH THE MOST RECENT GRADING PLAN AND ACTUAL SITE CONDITIONS.

6. THE ONTARIO BUILDING CODE REQUIRES THAT THE CONSTRUCTION OF EVERY BUILDING DESIGNED BY AN ARCHITECT AND/OR PROFESSIONAL ENGINEER IS TO BE REVIEWED FOR GENERAL CONFORMITY TO THE APPROVED DESIGN BY PROFESSIONALS (RETAINING WALLS FALL UNDER THE CATEGORY OF DESIGNATED STRUCTURES AND THEREFORE INCLUDED UNDER THE OBC). RISI STONE SYSTEMS AND/OR THEIR LICENSEE DOES NOT PROVIDE THIS SERVICE. THE CONTRACTOR MUST ENSURE THAT A THIRD THIRD PARTY ENGINEER HAS BEEN RETAINED TO PROVIDE GENERAL REVIEW OF THE WALL CONSTRUCTION IN ACCORDANCE WITH PART 3 EXECUTION SUB SECTION 3.03 OF RISISTONE SYSTEMS STANDARD SPECIFICATIONS.

7. THIS DESIGN HAS BEEN CONDUCTED IN ACCORDANCE WITH THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, THIRD EDITION. THE NCMA METHODOLOGY IS AN APPROVED DESIGN APPROACH IN CANADA AS STATED IN THE CANADIAN FOUNDATION ENGINEERING MANUAL, 4th EDITION (SECTION 27.3.2). THE PREFACE OF THE CFEM STATES THAT IT PROVIDES INFORMATION ON GEOTECHNICAL ENGINEERING, AS PRACTICED IN CANADA, **SO THAT THE USER WILL MORE READILY BE ABLE TO INTERPRET THE INTENT AND PERFORMANCE REQUIREMENTS OF SECTION 4.2 (FOUNDATIONS) OF THE NATIONAL BUILDING CODE OF CANADA.** AS THE ONTARIO BUILDING CODE OR NATIONAL BUILDING CODE DO NOT PROVIDE EXPLICIT METHODOLOGIES TO ADDRESS THE DESIGN OF SEGMENTAL RETAINING WALLS, COMPLIANCE OF THIS DESIGN WITH THE OBC AND NBC IS BY WAY OF THE CFEM RECOMMENDATIONS.
SEISMIC ANALYSIS HAS BEEN CONDUCTED AND ASSUMES A PGA OF 0.17 (OBC - SITE CLASS C). SITE CLASS MUST BE VERIFIED BY GENERAL REVIEW ENGINEER UPON INSPECTION OF SUBGRADE (AS DETAILED ON SECTION), ANALYSIS OF OVERALL GLOBAL AND/OR COMPOUND STABILITY HAS NOT BEEN CONDUCTED. IT IS REQUIRED THAT THE PROJECT GEOTECHNICAL ENGINEER BE RETAINED BY THE OWNER TO ASSESS THE NEED FOR A GLOBAL STABILITY ANALYSIS AND PROVIDE THIS, IF NECESSARY. RISI STONE SYSTEMS CAN WORK WITH THE GEOTECHNICAL ENGINEER TO PROVIDE DETAILS OF THE WALL DESIGN TO BE INCORPORATED INTO THE GLOBAL STABILITY ANALYSIS.

8. THE LOCATION OF EXISTING OR PROPOSED UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. GENERALLY IT IS RECOMMENDED THAT UTILITIES BE OFFSET FROM THE WALL TO A) PREVENT ADDITIONAL LOADING ON THE CONDUIT (I.E. A 1H:1V LINE OF INFLUENCE FROM THE BASE OF THE WALL SHOULD BE ASSUMED) UNLESS ACCOUNTED FOR IN DESIGN OF THE UTILITY B) TO ENSURE FUTURE ACCESS TO THE UTILITY WITHOUT UNDERMINING THE WALL. THE ENGINEERED FILL ABOVE THESE UTILITIES MUST BE COMPACTED TO 98% SPD. THE CIVIL ENGINEER MUST REVIEW THE DESIGN TO VERIFY THE ABOVE (REFER TO NOTE 9 AND SPECIFICATION FOR FURTHER DETAILS).

9. THE RETAINING WALL DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED BY THE CIVIL ENGINEER, LANDSCAPE ARCHITECT/ARCHITECT, AND GENERAL REVIEW ENGINEER PRIOR TO THE GENERAL REVIEW ENGINEER AUTHORIZING THE DRAWINGS TO BE USED FOR CONSTRUCTION IN ACCORDANCE WITH SECTION 3.02, SEGMENTAL RETAINING WALL DESIGN REVIEW, OF THE SPECIFICATIONS.

10 . WHEN ASSESSING SUBGRADE BEARING CAPACITY, THE GENERAL REVIEW ENGINEER MUST ACCOUNT FOR THE MAXIMUM ANTICIPATED GROUNDWATER ELEVATION AS PER LOCAL CODE REQUIREMENTS.

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J. I. MOTIANI
100067622
2022-12-16
PROVINCE OF ONTARIO
SEALED FOR DESIGN ONLY
Contingent on General Review as detailed in 1.05b and 3.02b in SPECIFICATIONS

PROJECT Risi Project No. 202212009

North Oakville Public School # 3
1235 Wheat Boom Drive
Oakville,ON

RisiStone ®

Segmental Retaining Wall Design

Drawn By	JM
Design By	JM
Checked By	*
Date	Dec 16 2022
Drawing No.	1
Drawing File	202212009 RW1

REVISIONS

No.	Date	By	Revisions

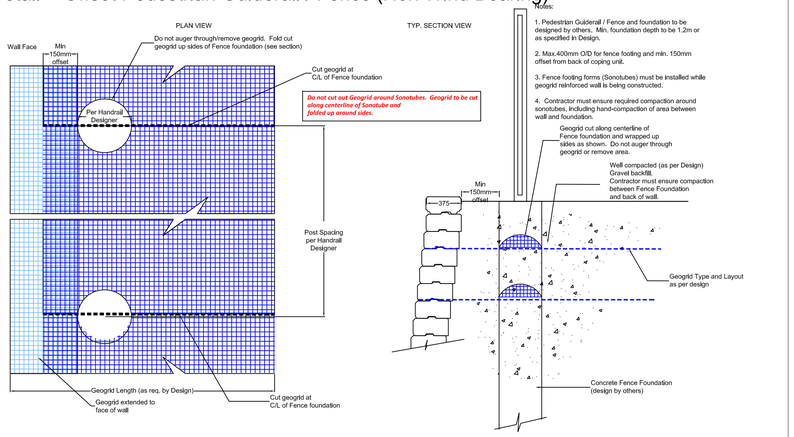
RISI PROJECT NO. 202212009

RETAINING WALL DESIGN

SHEET RW-1

DRAWING NO. 1

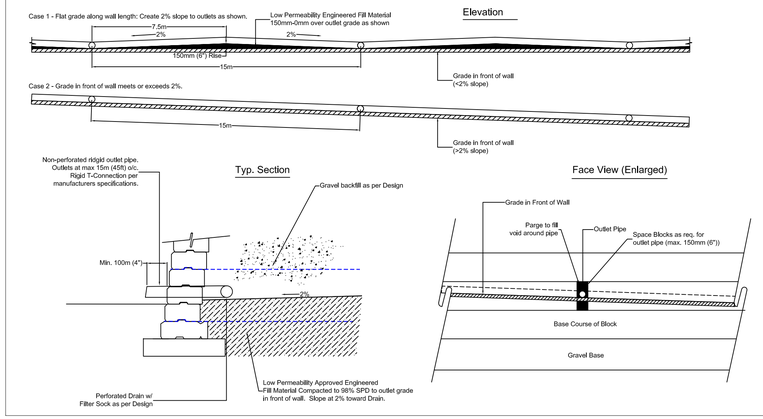
Detail - Offset Pedestrian Guiderail / Fence (Non Wind Bearing)



Notes:

1. Pedestrian Guiderail / Fence and foundation to be designed by others. Min. foundation depth to be 1.2m or as specified in Design.
2. Max.400mm O/D for fence footing and min. 150mm offset from back of coping unit.
3. Fence footing forms (Sonotubes) must be installed while geogrid reinforced wall is being constructed.
4. Contractor must ensure required compaction around sonotubes, including hand-compaction of area between wall and foundation.

Detail - Drain Outlet thru Face of Wall



Detail - Outside Corner Construction

SonomaStone (1.0m) Outside Modified Corners

Imperial dimensions

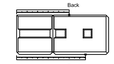
Angle [degrees]	Front [inches]	Back [inches]	Split [inches]	Cut [inches]	Unit to Modify
5	20 3/8	19 5/8	5/8	14 3/4	Standard
10	21	19 5/8	1 1/4	14 3/4	Standard
15	21 5/8	19 5/8	2	14 3/4	Standard
20	22 1/4	19 5/8	2 5/8	14 3/4	Standard
25	23	19 5/8	3 1/4	14 3/4	Standard
30	23 5/8	19 5/8	4	14 3/4	Standard
35	24 3/8	19 5/8	4 5/8	14 3/4	Standard
40	25	19 5/8	5 3/8	14 3/4	Standard
45	25 3/4	19 5/8	6 1/8	14 3/4	90° corner
50	26 5/8	19 5/8	6 7/8	14 3/4	90° corner
55	27 3/8	19 5/8	7 5/8	14 3/4	90° corner
60	28 1/4	19 5/8	8 1/2	14 3/4	90° corner
65	29 1/8	19 5/8	9 3/8	14 3/4	90° corner
70	30	19 5/8	10 1/8	14 3/4	90° corner
75	31	19 5/8	11 1/8	14 3/4	90° corner
80	32 1/8	19 5/8	12 1/8	14 3/4	90° corner
85	33 1/4	19 5/8	13 1/2	14 3/4	90° corner
90		Use manufactured 90° corner unit			
91>180		Not recommended			

Metric dimensions

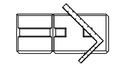
Angle [degrees]	Front [mm]	Back [mm]	Split [mm]	Cut [mm]	Unit to Modify
5	516	500	16	375	Standard
10	533	500	33	375	Standard
15	549	500	49	375	Standard
20	566	500	66	375	Standard
25	583	500	83	375	Standard
30	600	500	100	375	Standard
35	618	500	118	375	Standard
40	636	500	136	375	Standard
45	655	500	155	375	90° corner
50	675	500	175	375	90° corner
55	695	500	195	375	90° corner
60	717	500	217	375	90° corner
65	739	500	239	375	90° corner
70	763	500	263	375	90° corner
75	788	500	288	375	90° corner
80	815	500	315	375	90° corner
85	844	500	344	375	90° corner
90		Use manufactured 90° corner unit			
91>180		Not recommended			

1. Create modified right corner unit using required unit.

a. Identify Inside angle required. Mark corresponding Front and Back dimensions from left end of unit.



b. Mark Split and Cut dimensions on square. Line up marks on square with marks on unit.

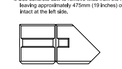


c. Scribe Split and Cut lines on unit.

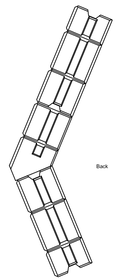
d. Use concrete saw to cut along Cut line.

e. Use chisel and hammer to score then split along Split line.

f. Use concrete saw to remove knob from the right end, leaving approximately 475mm (19 inches) of the key intact at the left side.

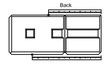


2. Place modified right corner unit on first course.

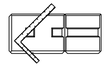


3. Create modified left corner unit using required unit.

a. Identify Inside angle required. Mark corresponding Front and Back dimensions from right end of unit.



b. Mark Split and Cut dimensions on square. Line up marks on square with marks on block.

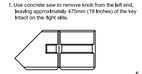


c. Scribe Split and Cut lines on unit.

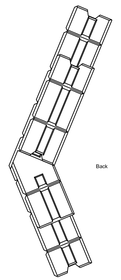
d. Use concrete saw to cut along Cut line.

e. Use chisel and hammer to score then split along Split line.

f. Use concrete saw to remove knob from the left end, leaving approximately 475mm (19 inches) of the key intact on the right side.



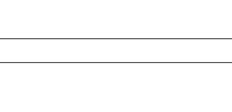
4. Place modified left corner unit on next course.



5. Repeat step 1 through 4 until desired height is achieved.

Detail - Drain Outlet to Catch Basin or other Positive Outlet

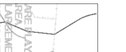
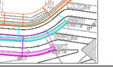
Detail - Geogrid Installation



Notes:

1. Follow geosynthetic manufacturer's installation instructions and specifications. Care must be taken to ensure geogrid is not damaged during construction or subject to UV exposure.
2. Do not allow ANY tracked equipment directly on top of the geogrid. For necessary travel on the geogrid, use only lightweight rubber tired equipment operating at slow speeds (less than 10 mph); do not allow braking or sharp turning.
3. Geogrid length, placement and type shall be as indicated in the Wall Design.
4. Geogrid must be placed in direction of highest strength (roll direction) perpendicular to face of wall. (i.e. - Do not roll out geogrid along the length of the wall).
4. COMPACTED INFILL MUST BE LEVEL WITH THE TOP OF THE BLOCK PRIOR TO PLACEMENT OF GEOGRID.
5. Remove all debris from the top of the SRW block prior to placement of geogrid.
6. Geogrid must be placed within 25mm (1") of the front face of the block.
7. Geogrid must be pulled taut, removing any slack or wrinkles prior to the placement of infill material. The use of temporary stakes to maintain tension of the geogrid is good practice. Infill material should be dumped close to the face of the wall and raked away from the wall to maintain tension in the geogrid during backfilling. When infill material is placed, caution must be used to ensure hand equipment (shovels and rakes) does not contact the geogrid or cause damage.
8. Adjacent sections of geogrid shall abut eachother (not overlap or gap) at the face of the wall to ensure continuous geogrid coverage. Geogrid cannot be spliced to create the required length into the back - the geogrid must be one continous piece.
9. Do not stack more than two (2) courses of block prior to backfilling wall.

SonomaStone Wall System Information

Somona Stone ® System Units		Face Width	Back Width	Height	Depth	Weight
	Standard Unit	47,25"	47,25"	7.25"	14.75"	385 lbs
		1200 mm	1200 mm	185 mm	375 mm	175 kg
	Tapered Unit	23,25"	21.5"	7.25"	14,75"	180 lbs
		590 mm	542 mm	185 mm	375 mm	82 kg
	750 Unit	47,25"	47,25"	7.25"	29,5"	770 lbs
		1200 mm	1200 mm	185 mm	750 mm	350 kg
	Left Corner Unit	38.5"	38.5"	7.25"	14.75"	309 lbs
		975 mm	975 mm	185 mm	375 mm	140 kg
	Right Corner Unit	38.5"	38.5"	7.25"	14,75"	309 lbs
		975 mm	975 mm	185 mm	375 mm	140 kg
	Coping Unit	47.25"	47.25"	7.25"	14,75"	375 lbs
		1200 mm	1200 mm	185 mm	375 mm	170 kg
	Tapered Coping Unit	23.25"	21.5"	7.25"	14.75"	180 lbs
		590 mm	544 mm	185 mm	375 mm	82 kg

* -indicates dimensions of alternate units available in some locations

Sonoma Stone® System Design/Construction Information		
Minimum Inside/Outside Radius (tapered units)	Standard Units	240'
		73 m
	Tapered Units* (U.S./Can)	11.5' / 14.0'
		3.5 m / 4.27 m
	750 Units	0'
		0m
Application of Coping Unit	Tapered Units	Adhesive Required
	Standard Units	Adhesive Not Required
Stacking Alignment	Battered/Vertical	
Facing (Coping)	Split Face (Smooth Face)	
Placement Method	Machine	

Detail - Swale Detail (Typical - Dim. to be provided by Civil Engineer)

Notes:

1. Swale to be dimensioned by Civil Engineer based on site drainage plan.
2. Swale to slope at min. 2% along the back of wall toward positive outlet as determined by Civil Engineer.
3. Swale must be constructed with low permeability soil (200mm / 8") in thickness to create an effective conduit for water.

Drainage Provisions

Potential Water Source	Drainage Measures (To be Verified by General Review Engineer)	Add. Notes
Surface Infiltration Above Infill Zone (1H:1V Wedge) and beyond. Rainfall, normal snow melt, run-off, etc. If irrigation systems are used immediately above the reinforced zone of the wall, additional measures will be required in case of leakage/failure of the system. Contractor must verify that area above wall is not used for storage of snow during winter months. Drainage system and assumed loading conditions do not account for this use.	Grade behind must direct water away from back of wall. If slope toward wall exists, swale system must be implemented to carry water at min. 2% grade to positive drainage area. Dimensions of swale will be based on anticipated water collection requirements as specified by the Civil Engineer as part of the overall site drainage plan. The swale system must be constructed with a low permeability layer (100-150mm) of engineered fill material compacted to 95% SPD to act as a conduit for the surface water and prevent infiltration behind the wall facing and into the reinforced zone.	**Other structures and paved surfaces adjacent to Wall.** Other structures adjacent to the retaining wall must have Independent drainage systems. For example, pavements must have independent collection systems (perimeter drains) to collect water that penetrates cracks in the surface, etc. Building downspouts must not direct water towards the walls and must be connected to independent outlets.
Lateral Underground. Design assumes that groundwater is below bottom of wall. The following drainage measures address other potential sources of lateral groundwater that may be the results of infiltration through the surface (i.e. cracks in asphalt beyond the reinforced zone) or other below grade sources.	The infill zone of the wall is specified as a well graded gravel with a maximum of 8% fines with a collection pipe at the bottom. The retained zone (up stream source of potential water) is assumed to be of a lower permeability as compared to the imported infill. The reinforced zone is therefore assumed to allow for the drainage of potential water seepage as discussed in Column 1. The perforated collection pipe (Min. 100mm dia. at 2% grade) must be connected to a positive outlet as determined by the Civil Engineer prior to construction (max. 15m o/c). NOTE: These drainage measures are provided as an extra precaution against the possibility of an unknown water source that may or may not occur at some point during the life of the structure. If, upon excavation, a specific water source is identified (perched water condition, sand seams, etc) in the cut or is anticipated, additional drainage measures will be required (i.e. chimney drains).	**Water Management During Construction.** At all times the contractor must ensure measures such as temporary swales and drainage ditches are employed to manage surface water and seepage during and after the construction of the wall. If final grading is not part of the contractors scope of work, the area around the wall must still be properly graded to ensure water does not collect behind or is directed toward the wall.

RisiStone® retaining wall systems

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ISSUED FOR PERMIT/APPROVAL
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PROVINCE OF ONTARIO

SEALED FOR DESIGN ONLY Contingent on General Review as detailed in 1.05b and 3.02b in SPECIFICATIONS

PROJECT Risi Project No. 202212009

North Oakville Public School # 3
1235 Wheat Boom Drive
Oakville,ON

SonomaStone®

Segmental Retaining Wall Detail Sheet

Drawn By	JM
Design By	JM
Checked By	*
Date	Dec 16 2022
Drawing No.	2
Drawing File	202212009 RW2

REVISIONS

No.	Date	By	Revisions

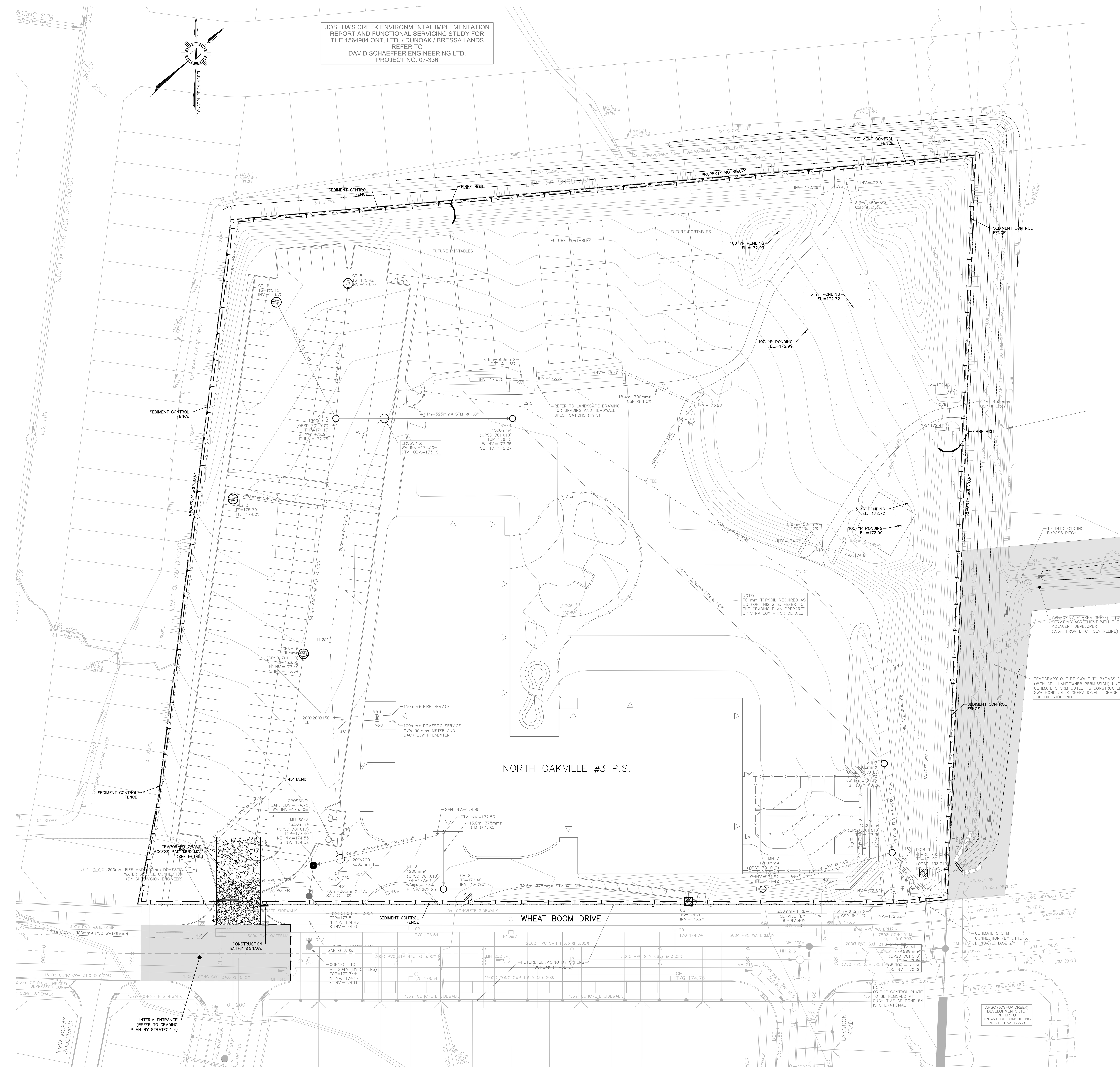
WALL LOCATION PLAN n.t.s.

RISI PROJECT NO. 202212009

DETAIL SHEET

SHEET RW-2

DRAWING NO. 2



ANY CONNECTION TO AN EXISTING SERVICE PREVIOUSLY INSTALLED, SHALL BE SWABBED, FLUSHED, AND SAMPLED BY THE REGION AT THE SOLE EXPENSE OF THE APPLICANT. REGIONAL BY-LAW NO. 131-10, SECTION II, C.14 (4)

NOTE:
LOCATION OF EXISTING UTILITIES AND SERVICES IS APPROXIMATE.

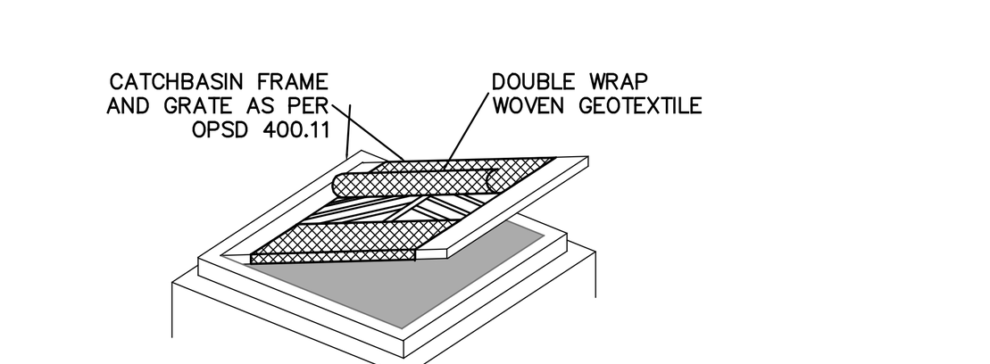
COMPLETE RESTORATION OF ALL DISTURBED AREAS (INCLUDING PAVEMENT STRUCTURE) WITHIN R.O.W. REQUIRED TO TOWN OF OAKVILLE STANDARDS AND THE SATISFACTION OF ENGINEERING AND CONSTRUCTION

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENTATION FACILITIES TO BE INSTALLED PRIOR TO ANY AREA GRADING OPERATION.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED, REPAIRED/MAINTAINED WEEKLY AND FOLLOWING ALL SIGNIFICANT RAINFALLS.
3. THE MEASURES AS PROPOSED MAY BE MODIFIED AT THE DISCRETION OF THE ENGINEER TO SUIT THE PROPOSED CONSTRUCTION PROGRAMS. THE GENERAL INTENT OF THE PROPOSED EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES.
4. DECOMMISSIONING OF ALL EROSION CONTROL MEASURES SHALL OCCUR ONLY ONCE VEGETATIVE COVER IS ESTABLISHED.
5. DESIGNATED ENTRANCE FOR ALL CONSTRUCTION TRAFFIC TO BE INSTALLED WITH MUD CONTROL DEVICE AS PER MUD MAT DETAIL. MUD CONTROL DEVICES TO BE INSTALLED PRIOR TO START OF CONSTRUCTION AND ARE TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL GRADING WORKS ARE COMPLETED. MUD MAT MAY BE DELETED WITH THE APPROVAL OF THE TOWN OF OAKVILLE.
6. ANY DISTURBED AREA NOT SCHEDULED FOR FURTHER CONSTRUCTION WITHIN 30 DAYS SHALL BE PROVIDED WITH A TEMPORARY SEED.
7. INSTALL CATCHBASIN SEDIMENT CONTROL ON EXISTING CATCHBASINS PRIOR TO START OF CONSTRUCTION.
8. INSTALL CATCHBASIN SEDIMENT CONTROL ON NEW CATCHBASINS AT TIME OF INSTALLATION.
9. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED ACCORDING TO THE APPROVED PLANS PRIOR TO COMMENCEMENT OF ANY EARTH MOVING WORK ON THE SITE AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH THE INTENDED GROUND COVER.
10. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE BUILDER/DEVELOPER:

- WEEKLY
- BEFORE AND AFTER ANY PREDICTED RAINFALL EVENT
- FOLLOWING AN UNPREDICTED RAINFALL EVENT
- DAILY, DURING EXTENDED DURATION RAINFALL EVENTS
- AFTER SIGNIFICANT SNOW MELT EVENTS

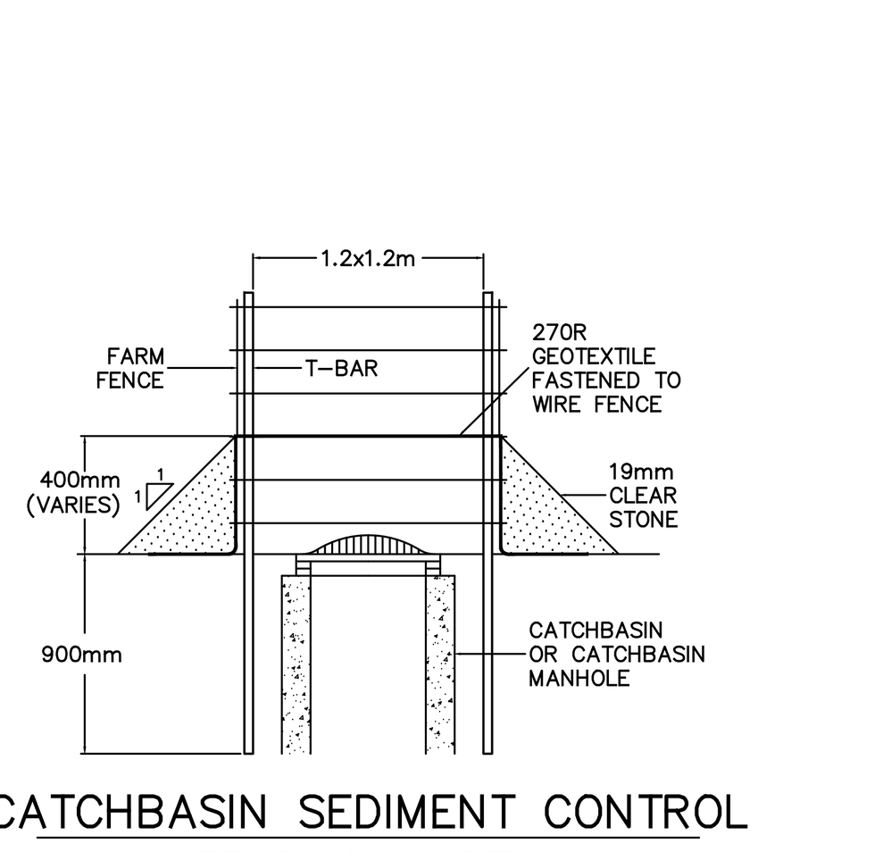
11. DEWATER EXISTING PONDS ONSITE AS REQUIRED WITH DEWATERING BAG ON WOOD PALLETS AND PUMP. DEWATERING BAG TO BE PLACED A MINIMUM OF 30M AWAY FROM PROPERTY LINE.
12. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. DAMAGED OR CLOGGED DEVICES SHALL BE REPAIRED WITHIN 48 HOURS.
13. WHERE A SITE REQUIRES DEWATERING AND WHERE THE EXPELLED WATER CAN BE FREELY RELEASED TO A SUITABLE RECEIVER, THE EXPELLED WATER SHALL BE TREATED TO CAPTURE SUSPENDED PARTICLES GREATER THAN 40 MICRON IN SIZE. THE CAPTURED SEDIMENT SHALL BE DISPOSED OF PROPERLY PER MOECC GUIDELINES. THE CLEAN EXPELLED WATER SHALL FREELY RELEASE TO A SUITABLE RECEIVER THAT DOES NOT CREATE DOWNSTREAM ISSUES INCLUDING BUT NOT LIMITED TO EROSION, FLOODING –NUISANCE OR OTHERWISE, INTERFERENCE ISSUES, ETC.
14. EXISTING STORM SEWER AND DRAINAGE DITCHES ADJACENT TO THE WORKS SHALL BE PROTECTED AT ALL TIMES FROM THE ENTRY OF SEDIMENT/SILT THAT MAY MIGRATE FROM THE SITE. FOR STORM SEWERS: ALL INLETS (REAR LOT CATCHBASINS, ROAD CATCHBASINS, PIPE INLETS, ETC.) MUST BE SECURED/FITTED WITH SILTATION CONTROL MEASURES. FOR DRAINAGE DITCHES: THE INSTALLATION OF ROCK CHECK DAMS, SILTATION FENCE, SEDIMENT CONTAINMENT DEVICES MUST BE INSTALLED TO TRAP AND CONTAIN SEDIMENT. THESE SILTATION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PER ITEMS B AND C ABOVE.
15. IN THE EVENT OF A SPILL (RELEASE OF DELETERIOUS MATERIAL) ON OR EMANATING FROM THE SITE, THE OWNER OR OWNERS AGENT SHALL IMMEDIATELY NOTIFY THE MOECC AND FOLLOW ANY PRESCRIBED CLEAN UP PROCEDURE. THE OWNER OF OWNERS AGENT WILL ADDITIONALLY IMMEDIATELY NOTIFY THE TOWN.



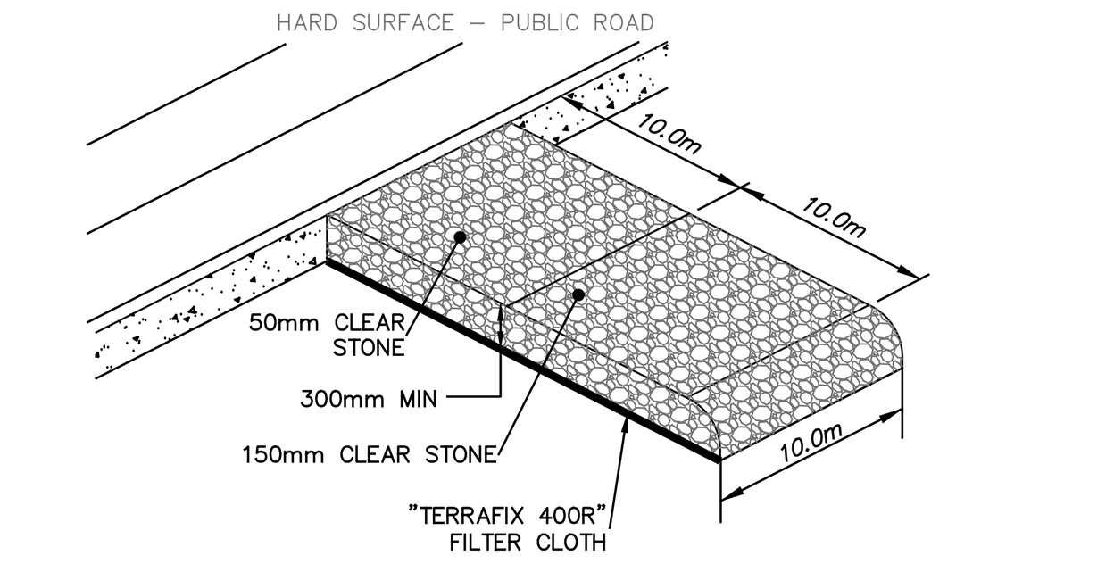
NOTE:

1. TO BE USED UNDER APPROPRIATE DRAINAGE CIRCUMSTANCES, BETWEEN APRIL AND DECEMBER
2. WOVEN GEOTEXTILE TO HAVE EQUIVALENT OPENING SIZE OF 0.15mm AND A MAXIMUM EQUIVALENT OPENING SIZE OF 0.25mm
3. WOVEN GEOTEXTILE TO BE REPLACED PERIODICALLY WHEN ACCUMULATED SEDIMENTS INTERFERES WITH DRAINAGE.

CATCHBASIN SEDIMENT CONTROL IN PAVED AREAS
NTS



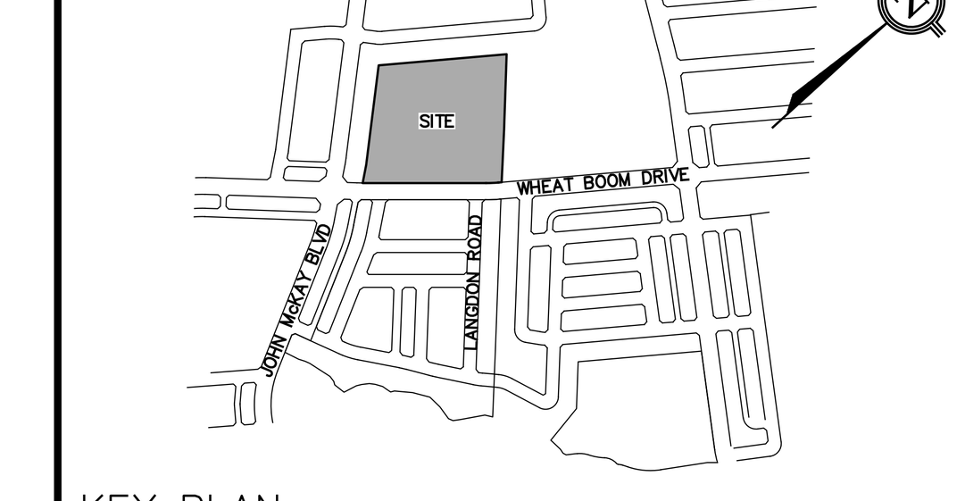
CATCHBASIN SEDIMENT CONTROL OFF ROAD AREAS
NTS



NOTE: LOCATION TO BE DETERMINED IN THE FIELD

GRAVEL ACCESS PAD (MUD MAT)
NTS

KEY PLAN



LEGEND

□	PROPOSED CATCHBASIN
□□	PROPOSED DOUBLE CATCHBASIN
◎	PROPOSED CATCHBASIN MANHOLE
○	PROPOSED INTERIM STORM MANHOLE
●	PROPOSED SANITARY MANHOLE
¤	PROPOSED FIRE HYDRANT
⊗	PROPOSED VALVE & BOX
⊏	PROPOSED PLUG
—▷—	PROPOSED INTERIM STORM SEWER
—▶—	PROPOSED SANITARY SEWER
— · —	PROPOSED WATERMAIN
— – —	PROPERTY BOUNDARY
——▶	PROPOSED SWALE DRAINAGE DIRECTION
⇨	PROPOSED OVERLAND FLOW DIRECTION
· · · · ·	100 YEAR PONDING

EROSION AND SEDIMENT CONTROL LEGEND

◌	SEDIMENT CONTROL CB IN PAVED AREAS
▨	SEDIMENT CONTROL CB IN LANDSCAPED AREA
— T —	SEDIMENT CONTROL FENCE
▦	MUD MAT
⌄	FIBRE ROLL

NO.	YY/MM/DD	BY/DRAWN	REVISIONS
5	22/12/16	JN/GL	ISSUED FOR TENDER
4	22/11/03	JN/GL	RE-ISSUED FOR SITE PLAN APPLICATION
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2	22/06/01	JN/GL	ISSUED FOR SITE PLAN APPROVAL & RESPONSE TO ZBLA COMMENTS
1	22/05/18	JN/GL	FOR CLIENT COORDINATION, REVIEW, AND COMMENT

CAD FILE: 1765S.dwg | PLOT SCALE: 1:1 | PLOT DATE: Dec 19, 2022

BENCHMARK
ELEVATIONS

NOTE
NOTE

LICENSED PROFESSIONAL ENGINEER J. T. NELSON 100199369 16 Dec 2022 PROVINCE OF ONTARIO

[illegible]

DESIGNED BY | APPROVED BY

CONSULTANT
TRAFALGAR ENGINEERING
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www.trafalgareng.com

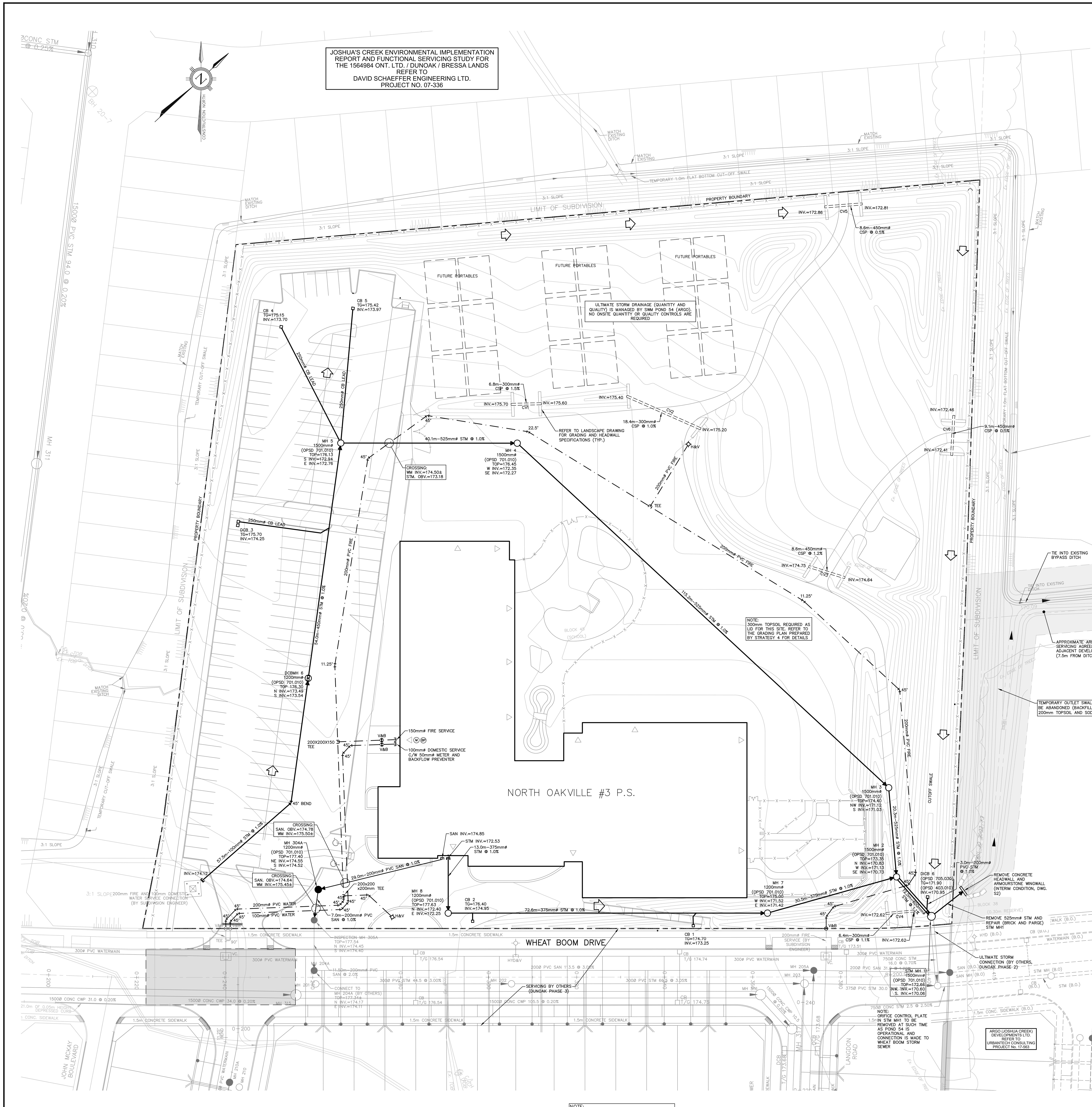
PROJECT TITLE
INTERIM SCHOOL SERVICING
STRATEGY 4

LOCATION
NORTH OAKVILLE #3 P.S.
TOWN OF OAKVILLE

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN
SP11854

SCALE	1:300	DESIGN BY	JN	PROJECT No.	1765
DRAWN BY	GL	CHECKED BY	JN	PLAN No.	E1
DATE	2021/12/21	SHEET	1 OF 1		

FILENAME: P:\1765 North Oakville #3\Drawings\DWG\1765S.dwg
PLOTDATE: Dec 19, 2022 – 2:56pm



ANY CONNECTION TO AN EXISTING SERVICE PREVIOUSLY INSTALLED, SHALL BE SWABBED, FLUSHED, AND SAMPLED BY THE REGION AT THE SOLE EXPENSE OF THE APPLICANT. REGIONAL BY-LAW NO. 131-10, SECTION II, C.14 (4)

NOTE:
LOCATION OF EXISTING UTILITIES AND SERVICES IS APPROXIMATE.

COMPLETE RESTORATION OF ALL DISTURBED AREAS (INCLUDING PAVEMENT STRUCTURE) WITHIN R.O.W. REQUIRED TO TOWN OF OAKVILLE STANDARDS AND THE SATISFACTION OF ENGINEERING AND CONSTRUCTION

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE REGIONAL MUNICIPALITY OF HALTON (INCLUDING REGION OF HALTON'S CONTRACTOR INFORMATION PACKAGE), TOWN OF OAKVILLE AND THE ONTARIO BUILDING CODE (PART 7). ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS (OPSS & OPSD) SHALL BE USED IN ABSENCE OF LOCAL STANDARDS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, MECHANICAL AND LANDSCAPE DRAWINGS.
3. ALL INFORMATION SHOWN REGARDING THE LOCATION AND SIZE OF EXISTING UTILITIES AND/OR SERVICES HAS NOT BEEN VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PROTECTING AND MAINTAINING DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL GIVEN GRADES AND ELEVATIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPENCIES TO THE ENGINEER.
5. ALL GRADING CHANGES SHALL BE APPROVED BY THE ENGINEER AND TOWN OF OAKVILLE PRIOR TO IMPLEMENTATION.
6. THE CONTRACTOR SHALL CLEAN ALL MUD TRACKED ON TO ADJACENT ROADWAYS.

SERVICING NOTES

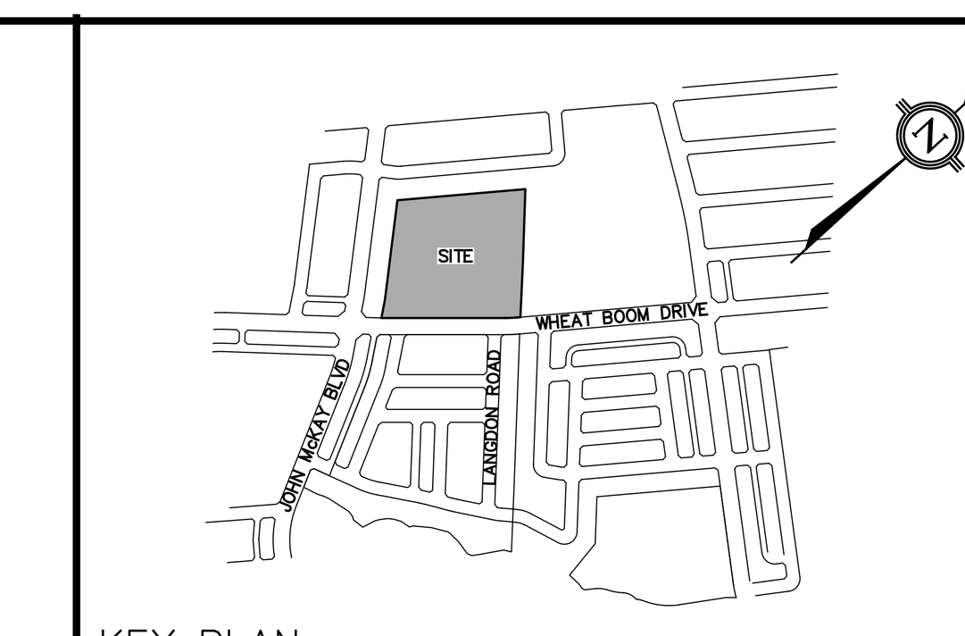
1. ALL UTILITIES SHALL BE BACKFILLED WITH GRANULAR BACKFILL COMPACTED TO 98% S.P.M.D.D. NATIVE BACKFILL MAY BE USED WITH THE PERMISSION OF THE GEOTECHNICAL CONSULTANT. BEDDING AND COVER MATERIAL SHALL BE PER THE GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS.
2. BACKFILLING AND RESTORATION WITHIN THE PUBLIC ROW SHALL BE IN ACCORDANCE WITH THE TOWN OF OAKVILLE ROAD CUT PERMIT AND TO THE SATISFACTION OF THE ENGINEERING & CONSTRUCTION DEPARTMENT.
3. SURROUND ALL MANHOLES WITH A MINIMUM OF 1.5m COMPACTED GRANULAR 'C' BACKFILL.
4. ALL ENDS OF SERVICE CONNECTIONS SHALL BE MARKED WITH 50x100 LUMBER PLACED FROM INVERT OF SERVICE TO 1.0m ABOVE GRADE.

STORM SEWERS

1. ALL STORM SEWERS 600 mm AND SMALLER SHALL BE PVC SDR35 CSA B182.2 WITH BEDDING PER OPSD 802.010 UNLESS OTHERWISE NOTED.
2. ALL STORM SEWERS 675 mm AND LARGER SHALL BE REINFORCED CONCRETE PIPE CLASS 65-D CSA A257.2 COMPLETE WITH BEDDING PER OPSD 802.030.
3. CATCHBASIN SHALL BE PER OPSD 705.010, DOUBLE CATCHBASIN PER OPSD 705.020 c/w GRATE PER OPSD 400.100.
4. ALL CB AND CBMH IN PAVED AREAS SHALL BE INSTALLED WITH 3.0m–100mm PERFORATED PIPE c/w FILTER SOCK EXTENDING OUT FROM THE CB AND LOCATED BELOW THE SUBGRADE SURROUNDED BY 50mm GRANULAR 'A'.
5. ALL CB LEADS SHALL BE 250mmø AT 1.0% UNLESS OTHERWISE NOTED. ALL DCB OR DI SHALL BE 300mmø AT 1.0% UNLESS OTHERWISE NOTED.
6. CATCHBASINS IN LANDSCAPE AREAS SHALL BE SUMPLESS AND WITH 'BEEHIVE' TOP PER TOWN STD. 5-2.
7. ALL STORM MH'S SHALL BE 1200mmø PER OPSD 701.010 c/w COVER PER OPSD 401.010, UNLESS OTHERWISE NOTED.
8. ALL CATCHBASIN MANHOLES SHALL BE BENCHED.

WATERMAIN NOTES

1. 100mm AND LARGER SERVICES SHALL BE PVC, C-900, CLASS 150, SDR18 c/w MECHANICAL RESTRAINTS & TRACER WIRE PER REGION OF HALTON REQUIREMENTS.
2. 50mm AND SMALLER SERVICE SHALL BE TYPE "K" SOFT COPPER TUBING.
3. BEDDING ON WATER SERVICE SHALL BE PER OPSD 802.010*.
4. VALVE AND BOX FOR 100mm TO 300mm WATER SERVICE PER REGION OF HALTON STDS.
5. COVER SHALL BE 1.7m MIN. UNLESS OTHERWISE NOTED.
6. CONNECTION TO EXISTING WATERMAIN SHALL BE PER REGION OF HALTON STD RH 409.01.
7. WATER SYSTEM SHALL BE PRESSURE TESTED TO 150 PSI FOR 3 HRS AND WITNESSED BY REGION OF HALTON.
8. HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C502 AND SHALL HAVE STEAMER PORTS AS PER REGION STANDARD SPECIFICATIONS (SEE NOTE 11). ALL HYDRANTS SHALL BE INSTALLED AS PER OPSD 1105.010*. IF HYDRANT BARREL DEPTH EXCEEDS 1.7m A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING ROD LENGTH IS TO BE USED.
9. * INDICATES O.P.S.D. CAN BE USED AS MODIFIED BY REGION OF HALTON.
10. MINIMUM LATERAL SEPARATION FROM OTHER UTILITIES IS 2.5m
11. STORZ PUMPER CONNECTION FOR HYDRANTS AS FOLLOWS: TWO (2) 63.5mm (2 1/2") WITH CSA STANDARD THREAD, 63.5mm I.D., 5 THREADS PER 25mm, 31.75mm SQUARE OPERATING NUT; AND STORZ CAP PAINTED GLOSS BLACK.
12. WATER SERVICES/MAINS SHALL BE TESTED & DISINFECTED AS PER ANSI/AWWA C651-99 AND REGION OF HALTON REQUIREMENTS.
13. NEW WATER SERVICES TO HAVE PHYSICAL SEPARATION FROM LIVE WATER SERVICES FOR TESTING PURPOSES.



KEY PLAN

LEGEND

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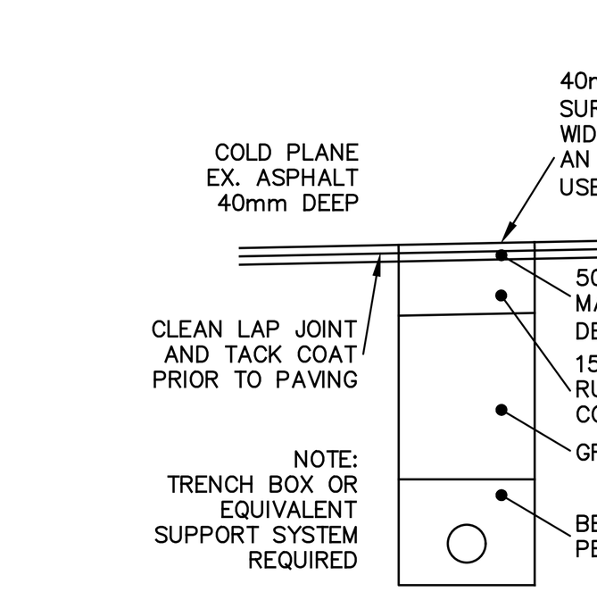
●	PROPOSED SANITARY MANHOLE
⌑	PROPOSED FIRE HYDRANT
⊖	PROPOSED VALVE & BOX
Ⓜ	PROPOSED WATER METER
BP	PROPOSED BACKFLOW PREVENTER
⊏	PROPOSED PLUG
━━▶━━	PROPOSED INTERIM STORM SEWER
──▶──	PROPOSED SANITARY SEWER
— · —	PROPOSED WATERMAIN
— - - —	PROPERTY BOUNDARY
──▶	PROPOSED SWALE DRAINAGE DIRECTION
⇨	PROPOSED OVERLAND FLOW DIRECTION

PRIOR TO COMMENCING ANY WORK WITH THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR, DEVELOPER OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE TOWN'S RIGHT-OF-WAY MANAGEMENT SECTION.



TYPICAL TRENCH RESTORATION
NTS

NOTE:
1. PLACE HL8 ASPHALT TO MATCH EX SURFACE.
2. IN FOLLOWING CONSTRUCTION SEASON GRIND ASPHALT 40mm DEEP AND PLACE 40mm HL3 ASPHALT.

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BENCHMARK
ELEVATIONS

NOTE
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SCALE	1:300	DESIGN BY	JN	PROJECT No.	1765
DRAWN BY	GL	CHECKED BY	JN	PLAN No.	S1
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