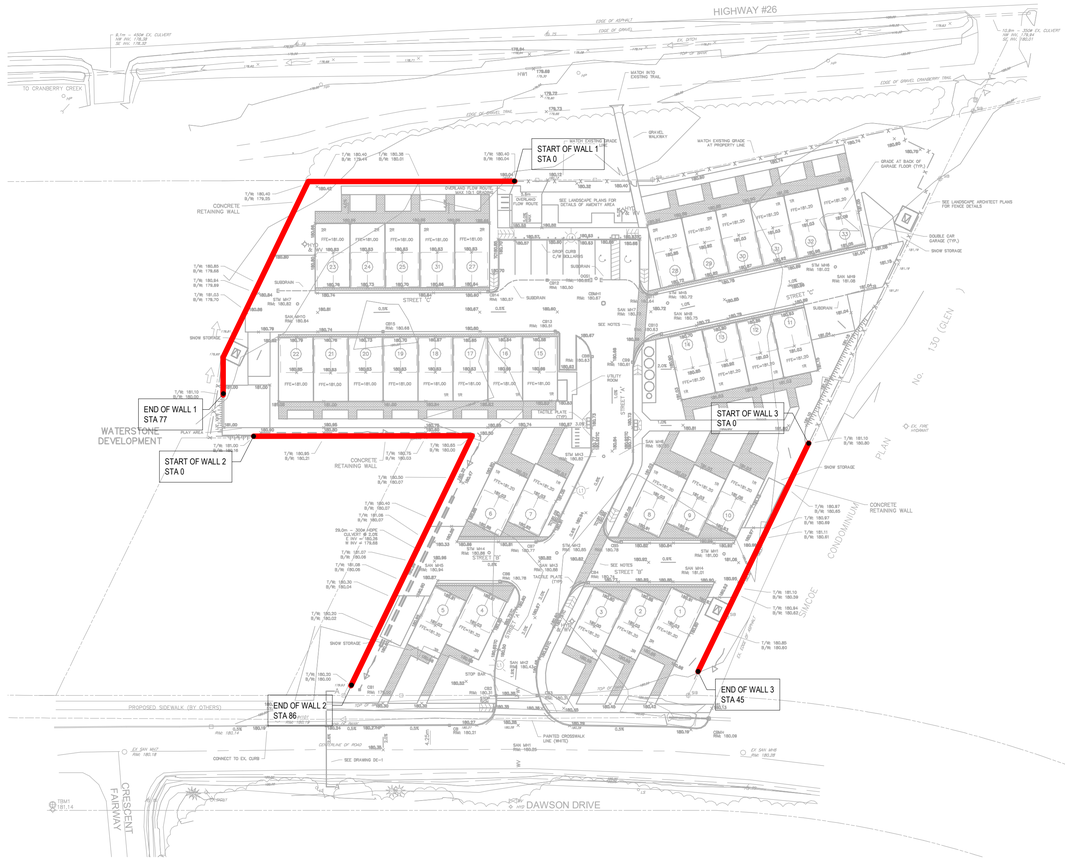


1 RETAINING WALL PLAN

1 : 500

GENERAL NOTES:

1. CONSULT LOCAL BUILDING OFFICIAL(s) FOR INSTRUCTIONS REGARDING CERTIFICATION OF COMPLETED RETAINING WALL(S). RETAINING WALLS, BEING ENGINEERED STRUCTURES, MAY REQUIRE CERTIFICATION BY A QUALIFIED ENGINEER WHO MUST BE RETAINED PRIOR TO CONSTRUCTION OF THE RETAINING WALL SO AS TO BE ABLE TO INSPECT THE CONSTRUCTION OF THE ENTIRE WALL FROM START TO FINISH.
2. A-D ENGINEERING WILL NOT CERTIFY THE RETAINING WALL UNLESS RETAINED BY THE OWNER TO DO SO, ARE NOTIFIED PRIOR TO CONSTRUCTION OF THE WALL, AND INSPECTIONS ARE CONDUCTED BY AD ENGINEERING STAFF DURING THE WALL CONSTRUCTION.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE LOCATION(S) AND ALIGNMENT(S) OF THE RETAINING WALL(S) IS/ARE PER THE APPROVED GRADING PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND GRADES PRIOR TO CONSTRUCTION.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE CERTIFYING ENGINEER PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE QUANTITY AND TYPE OF INSPECTIONS REQUIRED TO ALLOW FOR FINAL CERTIFICATION OF THE RETAINING WALL CONSTRUCTION.
5. WALL SYSTEM TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL INSPECTIONS, TESTING AND QUALITY VERIFICATIONS ARE PERFORMED DURING CONSTRUCTION BY QUALIFIED PERSONNEL.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE CONTRACTOR HAS BUDGETED ACCORDINGLY FOR THE INSPECTIONS AND TESTING NECESSARY TO CERTIFY THE CONSTRUCTION OF THE RETAINING WALL(S).
8. MINOR ALTERATIONS MAY BE MADE TO THE LAYOUT OF THE WALLS PROVIDED THE MINIMUM BURIED DEPTH IS MAINTAINED, MAXIMUM EXPOSED HEIGHT IS NOT EXCEEDED, AND SLOPES IN THE AREA OF THE WALL(S) ARE WITHIN THE ASSUMED DESIGN PARAMETERS AS PROVIDED BY THE DESIGN CROSS SECTIONS
9. A-D ENGINEERING MUST BE NOTIFIED TO PROVIDE THE NECESSARY REVISIONS AND RECOMMENDATIONS FOR ANY PROPOSED ALTERATIONS IF THE MAXIMUM WALL HEIGHT IS TO BE INCREASED, SLOPES BEHIND OR IN FRONT OF THE WALL EXCEED THOSE USED AS THE DESIGN PARAMETER, MINIMUM BURIED DEPTH REQUIREMENTS ARE REDUCED, OR A GUARD, FENCE OR BARRIER IS TO BE ADDED ON OR NEAR THE WALL THAT WAS NOT ACCOUNTED FOR IN THE DESIGN.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION OF THE RETAINING WALLS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY SUPPORT OR PROTECTION TO ANY EXISTING UTILITIES IN THE AREAS OF THE PROPOSED RETAINING WALLS.

DESIGN PARAMETERS:

1. RETAINING WALLS HAVE BEEN DESIGNED IN ACCORDANCE W/2012 ONTARIO BUILDING CODE AND THE DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, 2ND EDITION BY THE NATIONAL CONCRETE MASONRY ASSOCIATION.
2. ASSUMED SOIL PROPERTIES ARE AS LISTED BELOW AND MUST BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO AND DURING CONSTRUCTION OF THE WALL.
   A. SOIL FRICTION ANGLE = 28°
   B. UNIT WEIGHT OF SOIL (DRAINED) = 21.5 KN/m^3
   C. ACTIVE PRESSURE COEFFICIENT (external) (Kae)=0.32 (LEVEL BACKSLOPE)
3. A-D ENGINEERING MUST BE NOTIFIED OF ANY DISCREPANCY BETWEEN DESIGN PARAMETERS AND ACTUAL SITE CONDITIONS.
4. RETAINING WALL HAS BEEN CHECKED FOR EXTERNAL AND INTERNAL STABILITY. WHEN IT IS STATED ON THESE DRAWINGS THAT 'A GLOBAL STABILITY ANALYSIS IS RECOMMENDED IN ACCORDANCE WITH THE NCMA SEGMENTAL RETAINING WALL BEST PRACTICES GUIDE', IT SHALL BE THE OWNER'S RESPONSIBILITY TO RETAIN A QUALIFIED GEOTECHNICAL CONSULTANT TO CONDUCT THE GLOBAL STABILITY ANALYSIS.

EXCAVATION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING EXCAVATIONS ARE IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY SHORING OR UNDERPINNING REQUIRED TO SUPPORT ANY EXISTING SLOPES OR STRUCTURES AGAINST MOVEMENT OR UNDERMINING IN THE AREAS OF THE PROPOSED RETAINING WALLS (IF REQUIRED).

FOUNDATION NOTES:

1. RETAINING WALL TO BE USED AGAINST UNDISTURBED NATIVE SOIL UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. THE FOUNDATIONS HAVE BEEN DESIGN FOR AN ASSUMED MINIMUM ALLOWABLE NET BEARING CAPACITY OF 75 kPa (1500psf), UNLESS NOTED OTHERWISE ON SECTION DRAWINGS. FOUND ALL FOOTINGS ON NATURAL UNDISTURBED INORGANIC SOIL.
3. A SOILS CONSULTANT SHALL APPROVE ON SITE THE ASSIGNED SAFE NET BEARING PRESSURE FOR EACH FOOTING. IF THE SAFE NET BEARING PRESSURE USED FOR DESIGN IS NOT APPROVED, ENGINEER TO BE NOTIFIED FOR REVISION OF RETAINING WALL DESIGN.
4. ALL UNSUITABLE FILL SOILS CONTAINING ORGANICS OR DELETERIOUS MATERIAL, OR THAT IS FROZEN, MUST BE SUBEXCAVATED FROM BENEATH THE PROPOSED RETAINING WALL BASE AND SUBSEQUENTLY REPLACED WITH APPROVED STRUCTURAL FILL OR MASS CONCRETE UNDER SUPERVISION OF THE GEOTECHNICAL ENGINEER.
5. WHERE A SOIL INVESTIGATION WAS PROVIDED, THE SOIL PARAMETERS LISTED IN THE SOIL INVESTIGATION WERE USED FOR THE WALL DESIGN. WHERE NO SITE SPECIFIC INFORMATION WAS PROVIDED, IT WAS ASSUMED THAT THE FOUNDATION AND RETAINED SOILS CONSIST OF INORGANIC CLAYS WITH LOW TO MEDIUM PLASTICITY.

CONSTRUCTION NOTES:

1. IF THE RETAINING WALLS ARE CONSTRUCTED DURING FREEZING CONDITIONS, ALL FILL MATERIALS MUST BE FREE OF SNOW, ICE AND FROZEN MATERIAL.
2. CONTRACTOR IS RESPONSIBLE FOR DRAINAGE CONTROL DURING CONSTRUCTION IN AREAS OF THE PROPOSED RETAINING WALLS.
3. FIRST COURSE OF BLOCKS TO BE FOUNDED ON MINIMUM 150mm (6") OF COMPACTED OPSS GRANULAR "A" OVER UNDISTURBED NATIVE SOIL UNLESS OTHERWISE NOTED ON DRAWINGS.
4. DRAINS ARE TO BE OUTLETTED VIA GRAVITY TO APPROVED LOCATIONS. DRAINS ARE RECOMMENDED TO BE SLOPED AT A MINIMUM OF 1.0% TO THE PROPOSED OUTLET LOCATIONS. THE DRAINS MUST BE OUTLETTED AT THE ENDS OF THE WALL AND/OR THROUGH THE FACE OF THE WALL AT GROUND SURFACE. IT IS RECOMMENDED THAT A DRAINAGE OUTLET BE PROVIDED EVERY 15m (50 FT).
5. THE RETAINING WALLS ARE TO BE BACKFILLED AS RETAINING WALL BLOCKS ARE BEING PLACED IN LAYERS NOT EXCEEDING 200mm (8 in) AND COMPACTED TO THE SPECIFIED DENSITY. AT NO TIME SHOULD THE RETAINING WALL BLOCKS BE HIGHER THAN TWO COURSES ABOVE THE BACKFILL HEIGHT. THE BACKFILL MATERIAL MUST BE AT A SUITABLE MOISTURE CONTENT TO ACHIEVE THE MINIMUM REQUIRED FIELD COMPACTION; COMPACTION LEVELS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER.
6. WHERE REQUIRED, INFILL SOIL IS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm (8 in) IN THICKNESS. REQUIRED COMPACTION: 98% OF THE STANDARD PROCTOR DENSITY OF THE MATERIAL.
7. GEOGRID IS;
   1. STRATAGRID 200 (OR APPROVED ALTERNATIVE) - 1,250 LBS/FT TYP. MACHINE DIRECTION DESIGN STRENGTH. NO MORE THAN TWO COURSES BETWEEN LAYERS OF GEOGRID. GRID SHOULD BE EMBEDDED A MINIMUM OF 18" INTO THE WALL, OR
8. HEAVY COMPACTION AND CONSTRUCTION EQUIPMENT ARE NOT ALLOWED TO BE WITHIN 1.5 M (5 FT) OF THE BACK SIDE OF THE RETAINING WALL.
9. GRADE AT TOP AND BOTTOM OF WALLS IS AS NOTED ON DRAWINGS.
10. THE TOP AND BOTTOM OF THE WALL MUST BE STABILIZED (TOPSOILED AND SEEDED, OR AS SPECIFIED IN THE DRAWINGS) IMMEDIATELY UPON COMPLETION OF THE WALL, OR PROVIDED WITH EQUIVALENT EROSION PROTECTION.

GUARDS, FENCES AND BARRIERS:

1. CONTACT LOCAL MUNICIPALITY FOR GUARDRAIL REQUIREMENTS. IF REQUIRED, PROVIDE GUARDRAIL IN ACCORDANCE WITH 2012 O.B.C. REGULATIONS. NOTIFY AD ENGINEERING FOR APPROPRIATE CONNECTION TO TOP OF WALL IF GUARD IS TO BE PLACED IN WALL.
2. WHERE FENCES ARE TO BE INSTALLED ON OR NEAR THE RETAINING WALLS, VERIFY THE FENCE WAS ACCOUNTED FOR IN THE WALL DESIGN (WILL BE SHOWN ON THE DESIGN DRAWINGS) AND THAT THE TYPE (CHAIN LINK, PRIVACY, OR NOISE), DIMENSIONS AND POST SPACING OF THE FENCE IS AS SPECIFIED.
3. WHERE FENCES OR TRAFFIC BARRIERS ARE TO BE INSTALLED NEAR THE BACK OF THE RETAINING WALL, VERIFY THE FENCE OR BARRIER WAS ACCOUNTED FOR IN THE WALL DESIGN (WILL BE SHOWN ON THE DESIGN DRAWINGS) AND THAT THE SONO TUBES ARE INSTALLED DURING WALL CONSTRUCTION. CORE DRILLING OF HOLES POST WALL CONSTRUCTION IS NOT PERMITTED IN GEOGRID REINFORCED WALL INSTALLATIONS.

Key Plan

IMPORTANT NOTE:

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND VERIFY ALL EXISTING SITE DIMENSIONS WITH DRAWINGS. REPORT ANY DISCREPANCIES AND OMISSIONS TO THE STRUCTURAL ENGINEER, PRIOR TO CONSTRUCTION.
2. DO NOT SCALE THESE DRAWINGS.
3. WALL DESIGN PROVIDED IN THIS DRAWING SET, ARE BASED ON DOCUMENTATION AND INFORMATION PROVIDED TO DESIGN ENGINEER AT TIME OF DRAWING DATE. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DRAWING INFORMATION TO CONFIRM THAT THE INFORMATION AND WALL DESIGN SHOWN MATCH THE MOST RECENT GRADING AND SITE INFORMATION AVAILABLE.

A-D ENGINEERING GROUP LTD.
45 ERIC T. SMITH WAY UNIT 6, AURORA, ON L4G 7C6
O: 905-898-3514 T.F: 1-855-998-3514 F: 905-898-1998
info@adengineering.ca www.adengineering.ca

No.	Description	Date

Project Name: PROTERRA RETAINING WALLS

Client: OAKS LANDSCAPE PRODUCTS

Address: 11283 HIGHWAY 25, COLLINGWOOD, ONTARIO

SCALE: (AS SHOWN)

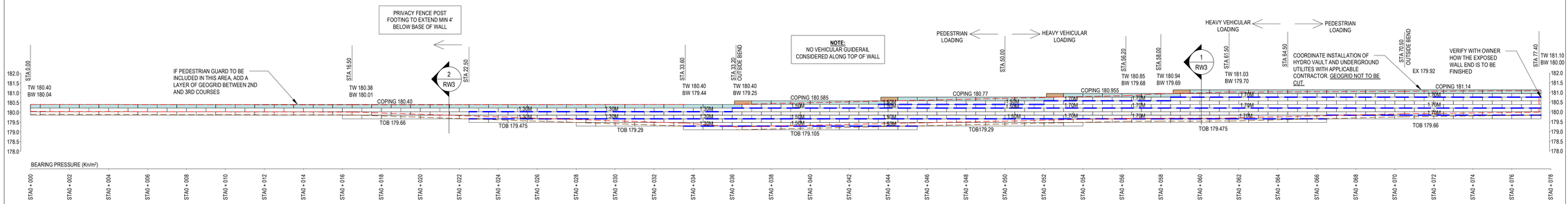
DATE: 12.12.24

LICENSED PROFESSIONAL ENGINEER
#241176
16-JAN-25
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

DESIGNED:	T.C.
DRAWN:	M.L-T.
PROJ ENG:	T.C.
APPROVED:	T.C.
SHEET NO.	RW1

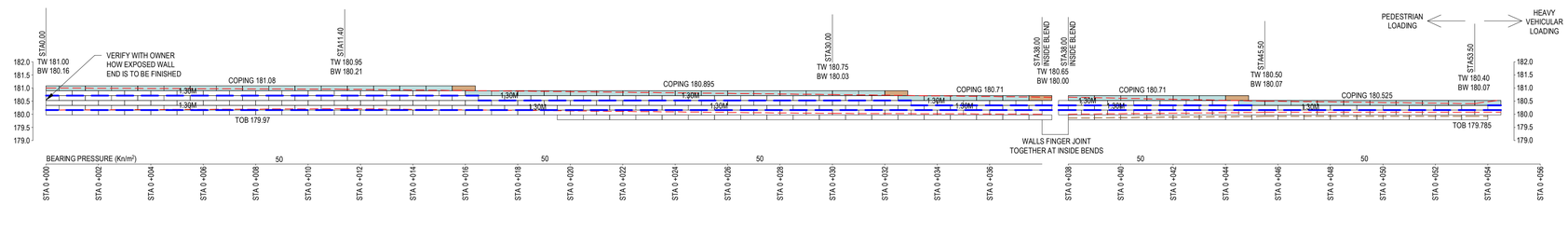
Title: RETAINING WALL PLAN AND NOTES

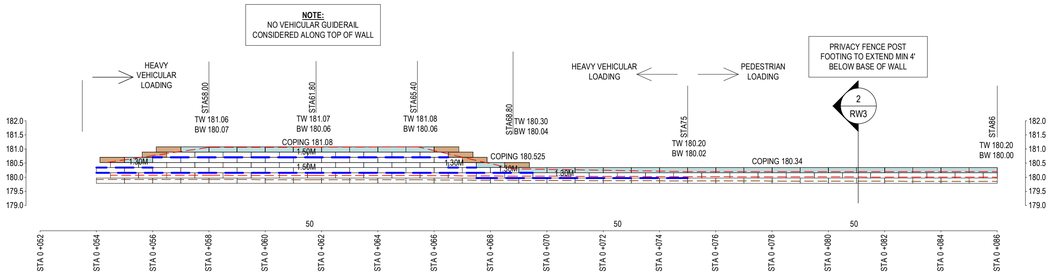
Project #: 241176



1 WALL ELEVATION 1

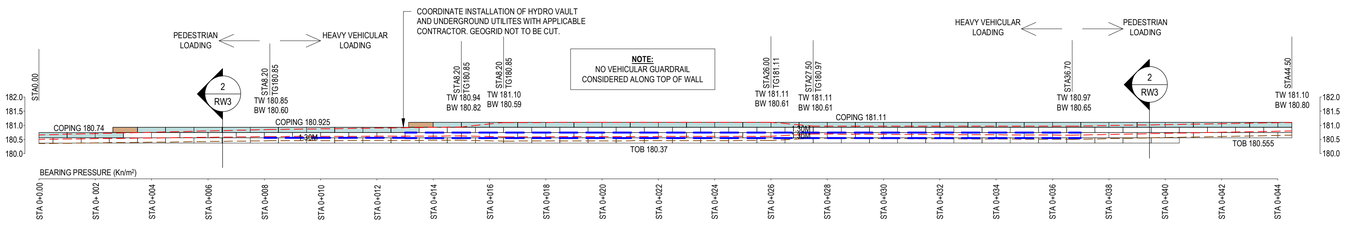
1 : 100





2 WALL ELEVATION 2

1 : 100



3 WALL ELEVATION 3

1 : 100

Key Plan

IMPORTANT NOTE:

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2. DO NOT SCALE THESE DRAWINGS.
3. WALL DESIGN PROVIDED IN THIS DRAWING SET, ARE BASED ON DOCUMENTATION AND INFORMATION PROVIDED TO DESIGN ENGINEER AT TIME OF DRAWING DATE. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DRAWING INFORMATION TO CONFIRM THAT THE INFORMATION AND WALL DESIGN SHOWN MATCH THE MOST RECENT GRADING AND SITE INFORMATION AVAILABLE.

A-D ENGINEERING GROUP LTD.
45 ERIC T. SMITH WAY UNIT 4, AURORA, ON L4G 7C6
O: 905-898-3514 T.F: 1-855-998-3514 F: 905-898-1998
info@adengineering.co www.adengineering.co

No.	Description	Date
1	REVISED TO INCLUDE PRIV. FENCE	18-01-25

Project Name: PROTERRA RETAINING WALLS

Client: OAKS LANDSCAPE PRODUCTS

Address: 11283 HIGHWAY 25, COLLINGWOOD, ONTARIO

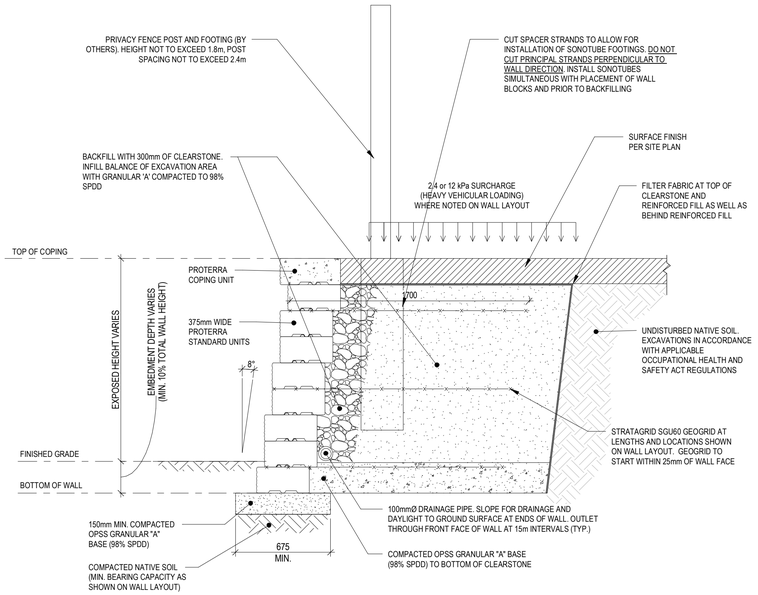
SCALE: (AS SHOWN)

DATE: 12.12.24
DESIGNED: T.C.
DRAWN: J.J
PROJ ENG: T.C.
APPROVED: T.C.
SHEET NO. RW2

LICENSED PROFESSIONAL ENGINEER
#241176
16-JAN-25
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

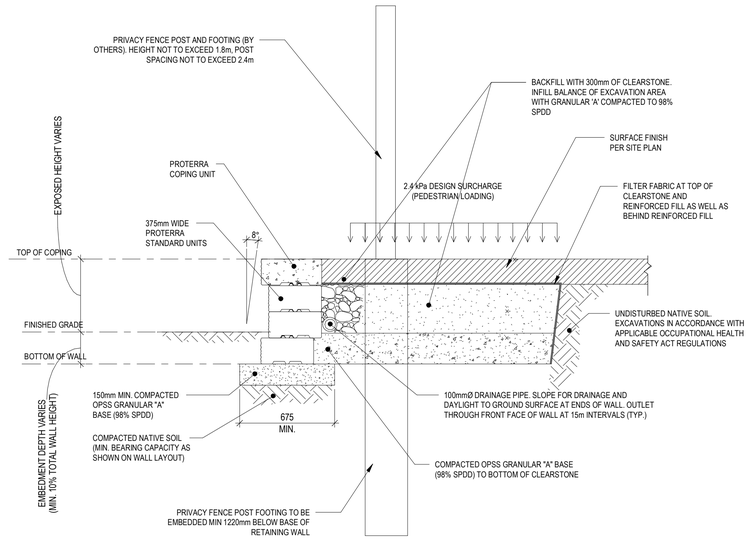
Title: WALL ELEVATIONS

Project # 241176



1 TYPICAL GEOGRID REINFORCED WALL SECTION

1 : 20



2 TYPICAL GRAVITY WALL SECTION

1 : 20

Key Plan

IMPORTANT NOTE:

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2. DO NOT SCALE THESE DRAWINGS.
3. WALL DESIGN PROVIDED IN THIS DRAWING SET, ARE BASED ON DOCUMENTATION AND INFORMATION PROVIDED TO DESIGN ENGINEER AT TIME OF DRAWING DATE. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DRAWING INFORMATION TO CONFIRM THAT THE INFORMATION AND WALL DESIGN SHOWN MATCH THE MOST RECENT GRADING AND SITE INFORMATION AVAILABLE.

A-D ENGINEERING GROUP LTD.
45 ERIC T. SMITH WAY UNIT 4, AURORA, ON L4G 7C6
O. 905-898-3514 T.F. 1-855-998-3514 F. 905-898-1998
info@adengineering.ca www.adengineering.ca

No.	Description	Date
1	REVISED TO INCLUDE PRIV. FENCE	18-01-25

Project Name: PROTERRA RETAINING WALLS

Client: OAKS LANDSCAPE PRODUCTS

Address: 11283 HIGHWAY 25, COLLINGWOOD, ONTARIO

SCALE: (AS SHOWN)

DATE: 12.12.24

DESIGNED: T.C.

DRAWN: M.L-T.

PROJ ENG: T.C.

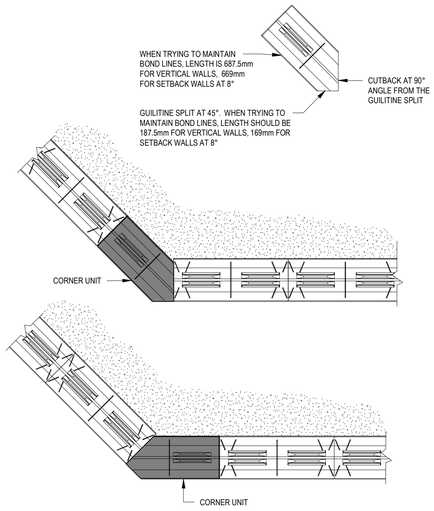
APPROVED: T.C.

LICENSED PROFESSIONAL ENGINEER
#241176
16-JAN-25
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

SHEET NO. RW3

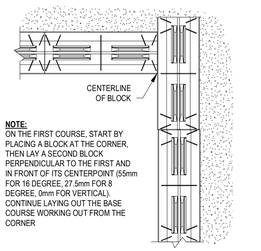
Title: TYPICAL SECTIONS AND PROTERRA DETAILS

Project # 241176

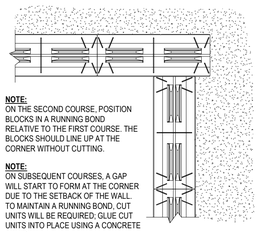


1 45° OUTSIDE CORNER

1 : 25



NOTE:
ON THE FIRST COURSE, START BY PLACING A BLOCK AT THE CORNER, THEN LAY A SECOND BLOCK PERPENDICULAR TO THE FIRST AND IN FRONT OF ITS CENTERPOINT (55mm FOR 16 DEGREE, 27.5mm FOR 8 DEGREE, 0mm FOR VERTICAL). CONTINUE LAYING OUT THE BASE COURSE WORKING OUT FROM THE CORNER



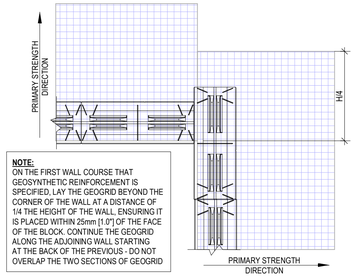
NOTE:
ON THE SECOND COURSE, POSITION BLOCKS IN A RUNNING BOND RELATIVE TO THE FIRST COURSE. THE BLOCKS SHOULD LINE UP AT THE CORNER WITHOUT CUTTING.

NOTE:
ON SUBSEQUENT COURSES, A GAP WILL START TO FORM AT THE CORNER DUE TO THE SETBACK OF THE WALL. TO MAINTAIN A RUNNING BOND, CUT UNITS WILL BE REQUIRED; GLUE CUT UNITS INTO PLACE USING A CONCRETE ADHESIVE.

2 90 DEGREE INSIDE CORNER

1 : 25

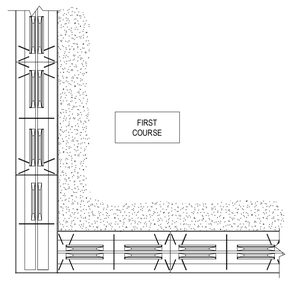
NOTE:
ON THE SECOND WALL COURSE THAT GEOSYNTHETIC REINFORCEMENT IS SPECIFIED, ALTERNATE THE REINFORCEMENT EXTENSION. CONTINUE THE GEOGRID ALONG THE ADJOINING WALL STARTING AT THE BACK OF THE PREVIOUS - DO NOT OVERLAP THE TWO SECTIONS OF GEOGRID

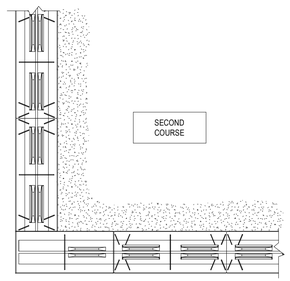


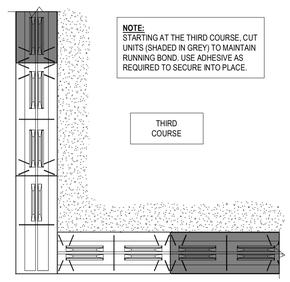
NOTE:
ON THE FIRST WALL COURSE THAT GEOSYNTHETIC REINFORCEMENT IS SPECIFIED, LAY THE GEOGRID BEYOND THE CORNER OF THE WALL AT A DISTANCE OF 1/4 THE HEIGHT OF THE WALL, ENSURING IT IS PLACED WITHIN 25mm [1.0"] OF THE FACE OF THE BLOCK. CONTINUE THE GEOGRID ALONG THE ADJOINING WALL STARTING AT THE BACK OF THE PREVIOUS - DO NOT OVERLAP THE TWO SECTIONS OF GEOGRID

3 90 DEGREE INSIDE CORNER WITH GEOGRID - SPLIT FACE WALLS

1 : 25



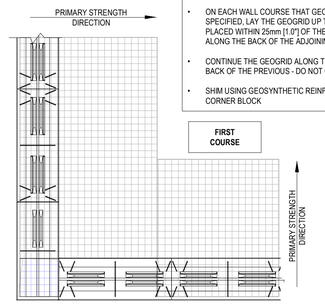




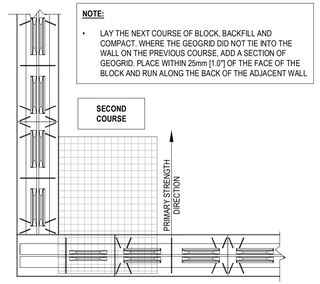
NOTE:
STARTING AT THE THIRD COURSE, CUT UNITS (SHADED IN GREY) TO MAINTAIN RUNNING BOND. USE ADHESIVE AS REQUIRED TO SECURE INTO PLACE.

4 90° OUTSIDE CORNER

1 : 25



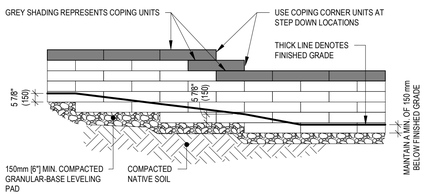
NOTE:
- ON EACH WALL COURSE THAT GEOSYNTHETIC REINFORCEMENT IS SPECIFIED, LAY THE GEOGRID UP TO CORNER OF THE WALL, ENSUREING IT IS PLACED WITHIN 25mm [1.0"] OF THE FACE OF THE BLOCK AND RUNNING ALONG THE BACK OF THE ADJOINING WALL
- CONTINUE THE GEOGRID ALONG THE ADJOINING WALL STARTING AT THE BACK OF THE PREVIOUS - DO NOT OVERLAP THE TWO SECTIONS OF GEOGRID
- SHIM USING GEOSYNTHETIC REINFORCEMENT AS REQUIRED ABOVE THE CORNER BLOCK



NOTE:
- LAY THE NEXT COURSE OF BLOCK, BACKFILL AND COMPACT. WHERE THE GEOGRID DID NOT TIE INTO THE WALL ON THE PREVIOUS COURSE, ADD A SECTION OF GEOGRID. PLACE WITHIN 25mm [1.0"] OF THE FACE OF THE BLOCK AND RUN ALONG THE BACK OF THE ADJACENT WALL

5 90° OUTSIDE CORNER WITH GEOGRID

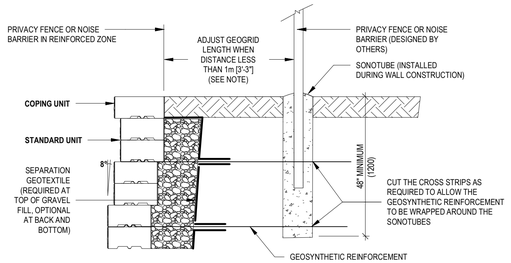
1 : 25



6 ELEVATION CHANGE IN TOP OR BOTTOM OF WALL

1 : 50

NOTE:
INSERT POSTS INTO THE SONOTUBES, ALIGN, AND SECURE USING NON-SHRINK GROUT. ENSURE POSTS ARE MINIMUM 25mm [1.0"] FROM ALL SIDES OF THE SONOTUBE

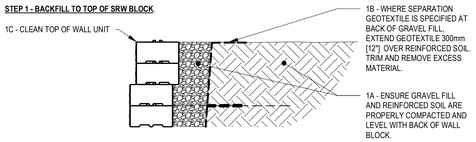


NOTE:
WHEN THE PRIVACY FENCE OR NOISE BARRIER IS AT LEAST 1m [3'-3"] BACK FROM THE WALL FACE, GENERALLY NO ADDITIONAL REINFORCEMENT IS REQUIRED. WHEN THE PRIVACY FENCE OR NOISE BARRIER IS INSTALLED WITHIN 1m [3'-3"] OF THE WALL FACE, THERE MAY BE SOME LOAD TRANSFERRED TO THE WALL FROM WIND, SNOW, OR PEDESTRIANS. ADDITIONAL REINFORCEMENT AROUND THE SONOTUBES AND/OR DEEPER SONOTUBES MAY BE REQUIRED.

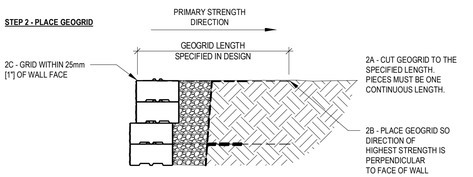
7 PRIVACY FENCE OR NOISE BARRIER IN REINFORCED ZONE

NTS

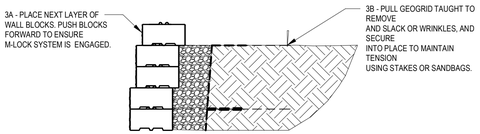
STEP 1 - BACKFILL TO TOP OF SRW BLOCK



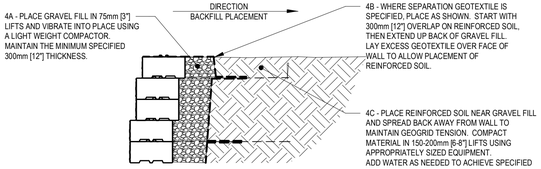
STEP 2 - PLACE GEOGRID



STEP 3 - SECURE GEOGRID



STEP 4 - PLACE BACKFILL MATERIAL



GENERAL NOTES:

1. FOLLOW GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. CARE MUST BE TAKEN. ENSURE GEOGRID IS NOT DAMAGED CONSTRUCTION OR SUBJECT TO UV EXPOSURE.

DESIGN:

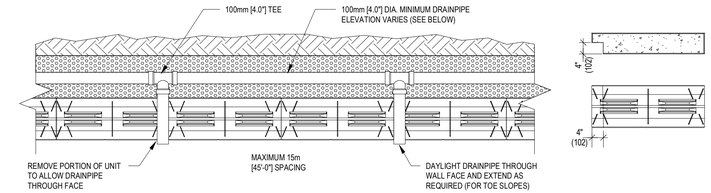
1. MINIMUM GEOGRID LENGTH IS 60% OF THE TOTAL WALL HEIGHT BUT NEVER LESS THAN 1.2m [4'].
2. LOWEST LAYER OF GEOGRID TO BE WITHIN 2 WALL COURSES OF THE LEVELING PAD. TOP LAYER OF GEOGRID TO BE WITHIN 2 WALL COURSES OF THE COPING. NO MORE THAN 3 WALL COURSES BETWEEN GEOGRID LAYERS.
3. GEOGRID LENGTH, PLACEMENT AND TYPE SHALL BE INDICATED ON THE WALL DESIGN.

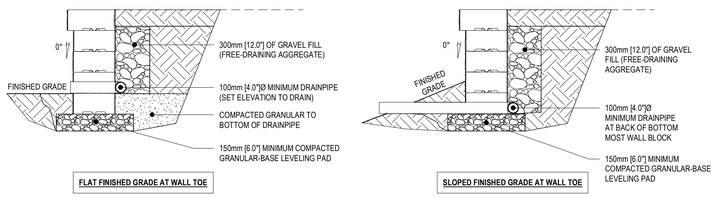
INSTALLATION:

1. ADJACENT SECTIONS OF GEOGRID SHALL ABUT EACH OTHER, NOT OVERLAP.
2. DO NOT PLACE MORE THAN TWO (2) COURSES WALL BLOCK PRIOR TO BACKFILLING THE WALL.
3. AGGREGATE MATERIAL SHOULD BE DUMPED CLOSE TO THE WALL AND RAKED AWAY FROM THE WALL TO MAINTAIN TENSION IN THE GEOGRID DURING BACKFILLING.WHEN AGGREGATE MATERIAL IS SPREAD, CAUTION MUST BE USED TO ENSURE HAND EQUIPMENT (SHOVELS, RAKES) DOES NOT CONTACT THE GEOGRID OR CAUSE
4. DAMAGE.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 LOW SPEEDS (LESS THAN 10MPH);
5. DO NOT ALLOW SHARP BRAKING OR TURNING. ONLY HAND OPERATED EQUIPMENT SHOULD BE USED WITHIN 1m [3'] OF THE BACK OF WALL BACKFILL THICKNESS MAY NEED TO BE REDUCED IN THESE AREAS TO ENSURE PROPER COMPACTION OF THE REINFORCED SOIL.
6. ONLY HAND OPERATED EQUIPMENT SHOULD BE USED WITHIN 1m [3'] OF THE BACK OF WALL. BACKFILL THICKNESS MAY NEED TO BE REDUCED IN THESE AREAS TO ENSURE PROPER COMPACTION OF THE REINFORCED SOIL.

8 GEOGRID INSTALLATION BEST PRACTICES

1 : 25





9 DAYLIGHT DRAINPIPE THROUGH WALL FACE

1 : 25

Key Plan

IMPORTANT NOTE:

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND VERIFY ALL EXISTING SITE DIMENSIONS WITH DRAWINGS. REPORT ANY DISCREPANCIES AND OMISSIONS TO THE STRUCTURAL ENGINEER, PRIOR TO CONSTRUCTION.
2. DO NOT SCALE THESE DRAWINGS.
3. WALL DESIGN PROVIDED IN THIS DRAWING SET, ARE BASED ON DOCUMENTATION AND INFORMATION PROVIDED TO DESIGN ENGINEER AT TIME OF DRAWING DATE. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DRAWING INFORMATION TO CONFIRM THAT THE INFORMATION AND WALL DESIGN SHOWN MATCH THE MOST RECENT GRADING AND SITE INFORMATION AVAILABLE.

A-D ENGINEERING GROUP LTD.
45 ERIC T. SMITH WAY UNIT 6, AURORA, ON L4G 7C6
O: 905-898-3314 T.F.: 1-855-998-3314 F: 905-898-1998
info@adengineering.ca www.adengineering.ca

No.	Description	Date
1	REVISED TO INCLUDE PRIV. FENCE	18-01-25

Project Name: PROTERRA RETAINING WALLS

Client: OAKS LANDSCAPE PRODUCTS

Address: 11283 HIGHWAY 25, COLLINGWOOD, ONTARIO

SCALE: (AS SHOWN)

DATE: 12.12.24
DESIGNED: T.C.
DRAWN: M.L-T.
PROJ ENG: T.C.
APPROVED: T.C.

LICENSED PROFESSIONAL ENGINEER
#241176
16-JAN-25
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

SHEET NO. RW4

Title: TYPICAL SECTIONS AND PROTERRA DETAILS Copy 1

Project # 241176