

bienenstock

natural playgrounds

PROJECT
**NAKUSP COMMUNITY
 PARK - PHASE 1**
 200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
 V0G 1R0

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ISSUED FOR ...	REV. DATE	NO.
ISSUED FOR REVIEW	20 JUL 2020	2
ISSUED FOR ...	REV. DATE	1
REVISION	DD/MMM/YYYY	NO.

DESIGN	DRAWN	REVIEWED	DATE
DR	RC	DR/CS	20 Jul, 2020
TECHNICAL REVISED	REVIEWED	SCALE	
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COVER

PRINTED ON 247X36

GENERAL NOTES

CLIENT

- THE CLIENT FOR THIS PROJECT IS:
NAME: ANDREW GABB
PH: 205-509-0203
- THE DESIGNER FOR THIS PROJECT IS:
NAME: DAVE REXWORTHY
PH: 1-800-306-3319 ext. 150
- CONTACT THE GENERAL CONTRACTOR FOR SITE ACCESS, SCHEDULING AND COORDINATION.
- OBTAIN CONSTRUCTION MANAGERS APPROVAL OF REMOVALS, LAYOUTS, WORKMANSHIP AND MATERIALS AS NEEDED AND WHERE NOTED IN THE DRAWINGS AND SPECIFICATIONS.
- SPECIFIED VENDOR COMPONENTS MAY ONLY BE SUBSTITUTED IF THE CLIENT APPROVES THE SUBSTITUTION.

DESIGN CRITERIA

- SPECIFIED VENDOR COMPONENTS MAY ONLY BE SUBSTITUTED FOR COMPONENTS EQUAL IN QUALITY, SIZE AND MATERIALS.
- THIS CONTRACT MUST BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING CODES (AS APPLICABLE TO THE SITE LOCATION):
7.a. FEDERAL, PROVINCIAL/STATE AND/OR MUNICIPAL CODE.
7.b. LOCAL & NATIONAL BUILDING CODE.
7.c. CAN/CSA-Z614-14 (R2015) CANADIAN STANDARDS ASSOCIATION.
- ALL PATHWAYS MUST HAVE A SLOPE NO GREATER THAN 20:1 (5%) UNLESS OTHERWISE STATED.
- ALL TREES THAT REQUIRE REMOVAL AND/OR RELOCATION MUST FOLLOW LOCAL MUNICIPAL CODE FOR REMOVING AND TRANSPLANTING TREES.
- LOCAL CODES WILL BE FOLLOWED TO PROTECT EXISTING TREES THAT REQUIRE A TREE PROTECTION ZONE.
- CONSTRUCTION DRAWINGS MAY BE SCALED WHEN PRINTED ON 24"x36". IF THERE IS A CONFLICT BETWEEN SCALED DIMENSION AND WRITTEN DIMENSION; THE ORDER OF PRECEDENCE IS WRITTEN, THEN SCALED.
- IF THERE IS A CONFLICT AMONG THE GENERAL NOTES, DETAILS AND DRAWINGS, THE ORDER OF PRECEDENCE IS NOTES, THEN DRAWINGS, THEN DETAILS.

DRAINAGE

- THIS DRAINAGE PLAN USES 3/4" CLEAR GRAVEL TO CREATE A FRENCH DRAIN INFILTRATION BED UNDERNEATH PLAY SURFACING.
- ALL DRAIN PIPES PRESENT ARE TO BE A MINIMUM 102mm [4"] DIA. UNLESS OTHERWISE STATED
- PERFORATED DRAIN PIPE TO BE CONNECTED TO SOLID PIPE USING FLEXIBLE COUPLING.
- ALL OTHER CONNECTIONS ARE TO BE SOLID COUPLING OR REDUCER.

CONCRETE

- ALL CONCRETE TO HAVE A MINIMUM 15 MPA. UNLESS OTHERWISE STATED.
- ALL SELF-MIXING CONCRETE TO BE QUIKRETE - POST MIX BAGGED CONCRETE OR EQUIVALENT.
- IF USING SELF-MIXING CONCRETE, FOLLOW MANUFACTURER'S SPECIFICATIONS WHEN MIXING, POURING, AND CURING.
- IF USING READY MIX CONCRETE, ALLOW CONCRETE TO CURE FOR A MIN. 7 DAYS.
- ENSURE ALL SURFACES HAVE A 1% SLOPE TO SHED WATER.

WOOD TREATMENT

- PRESSURE TREATED (P.T.) WOOD MAY ONLY BE USED FOR NON-VISIBLE FRAMING.
- P.T. WOOD MAY BE COPPER AZOLE (C.A.) OR AMMONICAL COPPER QUATERNARY (A.C.Q.).
- CHROMATED COPPER ARSENATE (C.C.A.) IS NOT ACCEPTABLE.
- THE SPECIES OF TREES USED ARE CAREFULLY SELECTED DUE TO THEIR HIGHER TANNIN LEVELS AND RESISTANCE TO ROT.
- a. LOCUST, OAK, WALNUT, CEDAR, LARCH AND SILVER MAPLE ARE PREFERRED SPECIES.
- b. ASH, PINE AND SUGAR MAPLE ARE GUARANTEED TO BE INFESTED WITH INSECTS AND AS A RESULT, THEIR SALE AND TRANSPORT IS REGULATED IN MANY JURISDICTIONS.

STRUCTURAL STEEL

- UNLESS OTHERWISE NOTED, ALL STEEL COMPONENTS, HARDWARE AND FASTENERS (WITH THE EXCEPTION OF CONCRETE REINFORCEMENT BARS) ARE TO BE EITHER HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR COATED WITH EXTERIOR GRADE RUST-PREVENTATIVE PAINT.
- a. GALVANIZED STEEL MAY NOT COME INTO CONTACT WITH MILD STEEL.
- b. GALVANIZED STEEL MAY NOT COME INTO CONTACT WITH STAINLESS STEEL.
- ALL WELDING SHALL BE DONE BY A FULLY CERTIFIED COMPANY & SHALL CONFORM TO CSA STANDARD w47.1
- ALL FIELD-WELDS OF GALVANIZED STEEL MEMBERS SHALL BE TOUCHED UP WITH ZINC COAT.

SITE SECURITY

- SITE SECURITY IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. FENCING/HOARDING WILL BE SET PRIOR TO INSTALLATION AND WILL REMAIN INTACT UNTIL SUBSTANTIAL PERFORMANCE IS REACHED.

PLANTS AND PLANTING

- IF THE SPECIFIED PLANTS ARE NOT AVAILABLE (SPECIES AND/OR SIZE), PLANT SUBSTITUTIONS MUST BE APPROVED BY THE DESIGNER PRIOR TO DELIVERY.
- ALL PLANTS MUST BE HEALTHY AND FREE OF DISEASE, INSECTS PESTS.
- FOLLOW CSA/ASTM STANDARDS FOR ALLOWABLE PLANT SPECIES.
- ROOTS OF PLANT MATERIAL MUST BE PROTECTED AT ALL TIMES FROM FROST, WIND AND SUN.
- SCHEDULE DELIVERIES SO THAT PLANT MATERIAL SPENDS A MINIMAL AMOUNT OF TIME IN STORAGE ON SITE.
- ALL PLANTS MUST BE INSTALLED PROPERLY AND AT THE CORRECT LEVEL RELATIVE TO FINISHED GRADE. ROOT FLARE OF WOODY PLANTS SHALL BE 25 - 50mm [1"-2"] ABOVE FINISHED GRADE.
- PLANT MATERIAL MUST BE IRRIGATED IMMEDIATELY AFTER PLANTING.

DESIGNER NOTES

SURVEY INFORMATION:

- THIS CONSTRUCTION DOCUMENT PACK HAS BEEN CREATED WITH THE ASSUMPTION OF THE CONSTRUCTION SITE BEING FLAT. NO SURVEY HAS BEEN OBTAINED AS PER CLIENTS REQUEST. CONTRACTOR WILL HAVE TO ADJUST MEASUREMENTS & ELEVATIONS IN THIS DOCUMENT TO BE IN ACCORDANCE WITH REAL WORLD MEASUREMENTS.

VICINITY MAP



SITE MAP



TECHNICAL LEGEND

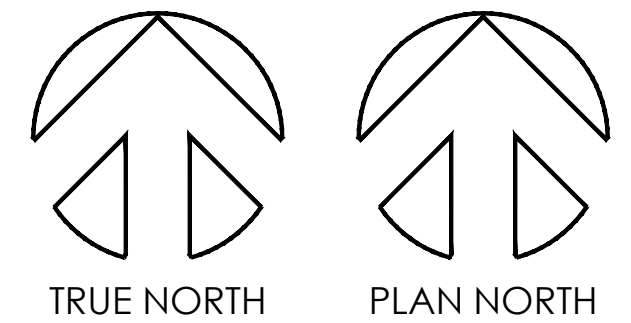
- PROPOSED TREE: DECIDUOUS
- PROPOSED TREE: CONIFEROUS
- PROPOSED SHRUB: DECIDUOUS
- LINE TYPE WORK LIMIT
- LINE TYPE PROTECTIVE SAFETY ZONE
- LINE TYPE RECOMMENDED CLEARANCE ZONE
- PROPOSED SLOPE
- PROPOSED SLOPE SUB GRADE
- ELEVATION PROPOSED
- ELEVATION PROPOSED SUB GRADE

SURFACING LEGEND

- MULCH
- ENGINEERED WOOD FIBER
- SOD
- CONCRETE
- GRAVEL



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ABBREVIATIONS

- C.I.P. CAST-IN-PLACE
- C/W COMPLETE WITH
- Ø DIAMETER
- E.W.F. ENGINEERED WOOD FIBRE
- H.P.B. HIGH PERFORMANCE BEDDING
- HT. HEIGHT
- H.D.G. HOT DIPPED GALVANIZED
- MAX. MAXIMUM
- MIN. MINIMUM
- N.I.C. NOT IN CONTRACT
- N.T.S. NOT TO SCALE
- O.C. ON CENTRE
- P.T. PRESSURE TREATED
- S.P.D.D. STANDARD PROCTER DRY DENSITY
- T.P. TREE PROTECTION
- TYP. TYPICAL
- U.N.O. UNLESS NOTED OTHERWISE
- L.M. LINEAR METER
- L.F. LINEAR FOOT
- TC TOP OF COMPONENT
- TF TOP OF FOOTING
- TL TOP OF LOG
- TB TOP OF BOULDER
- N.I.C. NOT IN CONTRACT
- U.N.O. UNLESS NOTED OTHERWISE

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P.1	PLANTING PLAN
P.2	PLANTING LAYOUT
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DIS.1	Details - Surfacing
DIC.1	Details - Component
DIC.2	Details - Component
DIC.3	Details - Component
DIC.4	Details - Component

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1	20 JUL 2020

DATE

20 Jul, 2020

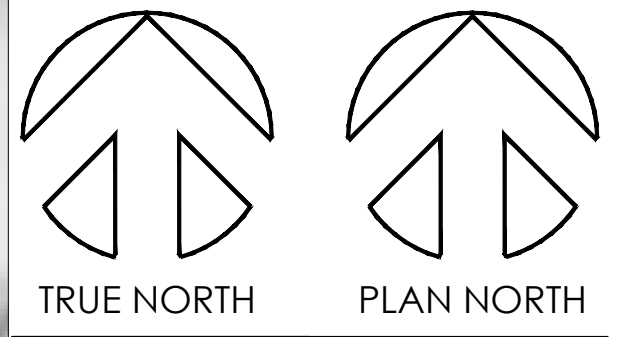
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GENERAL NOTES

GN.1

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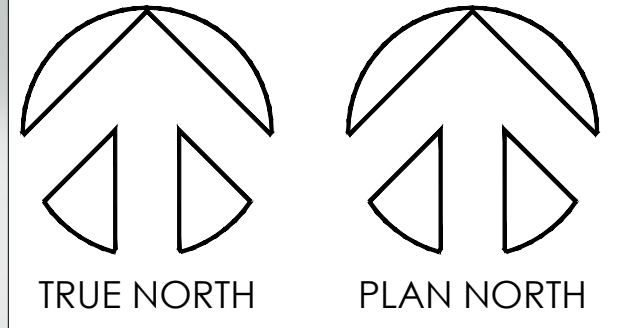
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EXISTING CONDITIONS
EX.1

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8 Ave NW

1 St NW

Ave NW

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REMOVALS
R.1

1 NI-PG-605-01
HORIZONTAL LOG BORDER: 12" DIA. SOFTWOOD
QTY: 47 lin.m. [154 lin.ft.]
DIC.1

3 NI-PG-606-10.01/03
LOG CLUSTER: VERISON 4A & 3A
QTY: VERSION 4A (x1) & VERSION 3A (x2)
DIC.1

8 NI-PG-8003
NET CLIMBER
QTY: 2 TOTAL
DIC.4

THE TWO NETS ARE IDENTICAL IN SIZE AND THE DISTANCE BETWEEN THE POSTS MUST BE ACCURATE ARE PER DRAWING. SEE DETAIL FOR DIMENSIONS.

9 NI-PG-601-02
WACKY POST(S): HARDWOOD
QTY: 29 TOTAL
DIC.3

9 CUSTOM
BALANCE CLIMBER
QTY: 1 COMPOSITE STRUCTURE
DIC.3

9 NI-PG-8002
LOG BEAM: VARIOUS LENGTHS
QTY: 26 TOTAL
DIC.3

BEAM LENGTHS MAY VARY BETWEEN 8'-12', DEPENDING ON THE FINAL POSITION AND DIA. OF WACKY POSTS. CONTRACTOR TO VARYIFY BEAM LENGTHS ONCE POSTS HAVE BEEN SET.

ENSURE ENDS OF BEAM EXTENT A MIN. 305mm [12"] BEYOND CONNECTION POINTS.

3 NI-PG-606-10.01/03
LOG CLUSTER: VERISON 4A & 3A
QTY: VERSION 4A (x1) & VERSION 3A (x1)
DIC.2

9 NI-PG-8001
SHIP-ROPE CLIMBER
QTY: 8 TOTAL
DIC.4

ROPE LENGTHS MAY VARY DEPENDING ON THE FINAL POSITION AND DIA. OF WACKY POSTS. ROPES MUST BE TIGHT WITH LITTLE SLACK. IT IS RECOMMENDED THAT THE ROPES BE MEASURED ONSITE AND ORDER AFTER THE WACKY POSTS HAVE BEEN INSTALLED.

2 DIS.1
MULCH
AREA:

9 NI-PG-8004
PULL-UP BAR
QTY: 1
DIC.4

PULL-UP BAR IS TO BE 2210mm [87"] IN LENGTH AT WHICH THE BAR STARTS 76mm [3"] INTO DIA. OF FIRST POST WHEREAS 229mm [9"] IS HOUSED IN FIRST POST. BAR IS TO BE SET 3" INTO SECOND POST AND SECURED. WACKY POSTS ARE TO BE PLACE 1905mm [75"] APART FROM INSIDE OF POSTS. THESE MEASUREMENTS ARE BASED ON THE WACKY POSTS BEING 305mm [12"] IN DIA.

DIA. OF POSTS MAY VERY. CONTRACTOR IS TO ADJUST ACCORDINGLY.

3 NI-PG-606-10.01/03
LOG CLUSTER: VERISON 4A & 3A
QTY: VERSION 4A (x1) & VERSION 3A (x2)
DIC.1

5 NI-PG-704-01
CARVED LOG ARMCHAIR
QTY: 1
DIC.1

4 NI-PG-609-02
LOG TUNNEL: PUBLIC USE
1 QTY:
DIC.1

2 NI-PG-605-04
ACCESSIBLE LOG BORDER: 46" OPENING
1 QTY:
DIC.1

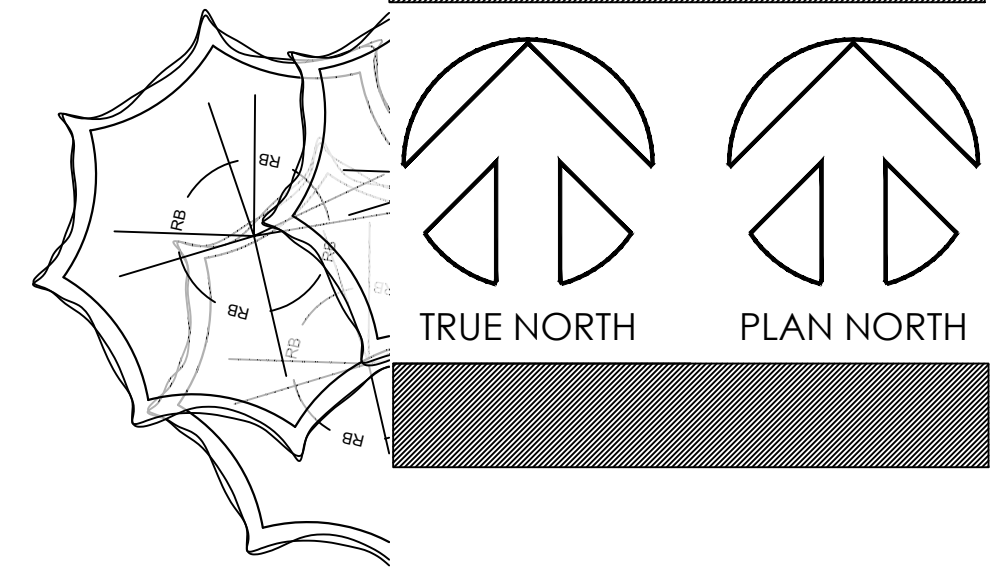
7 NI-PG-605-04
BOULDER IN BORDER
9 TOTAL QTY:
DIC.2

LANDSCAPE BOULDERS MAY VARY IN SIZE. CONTRACTOR TO ENSURE BOULDERS ARE NO LESS THAN 457mm [18"] IN DIA. AND NO GREATER THAN 915mm [36"] IN DIA.

8 ARMOUR STONE RETAINING WALL
11 lin.m. [36 lin.ft.] QTY:
DIC.2

ARMOUR STONE TO BE A MIN. 457mm [18"] ABOVE FINISHED GRADE OF EWF AND NO GREATER THAN 610mm [24"].

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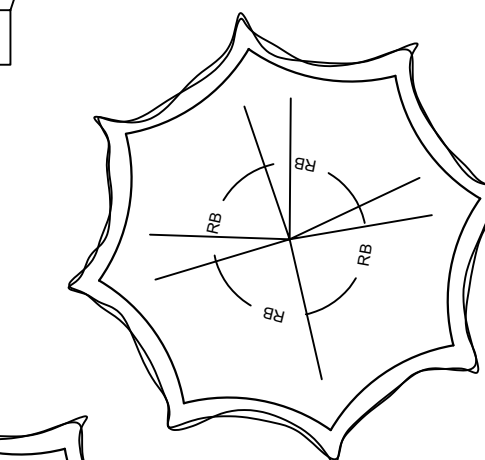
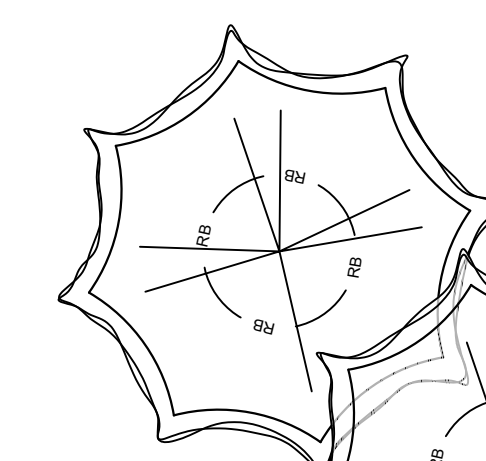
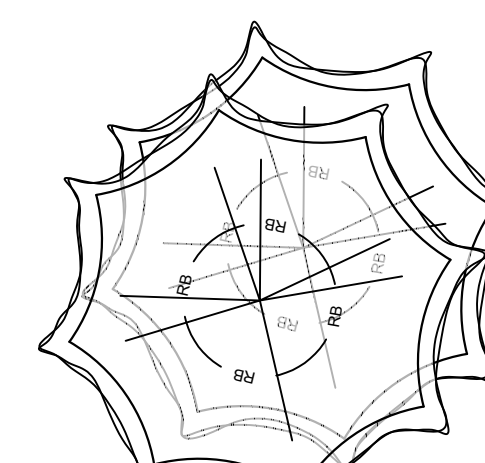
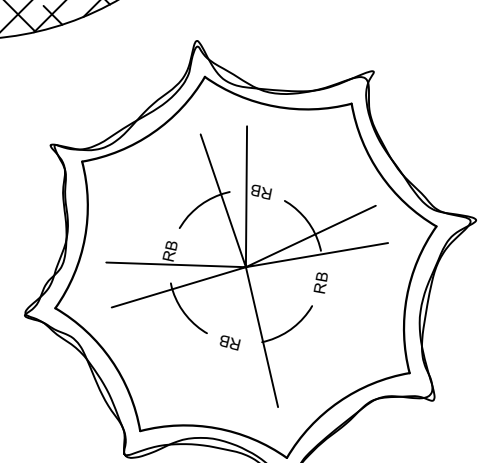
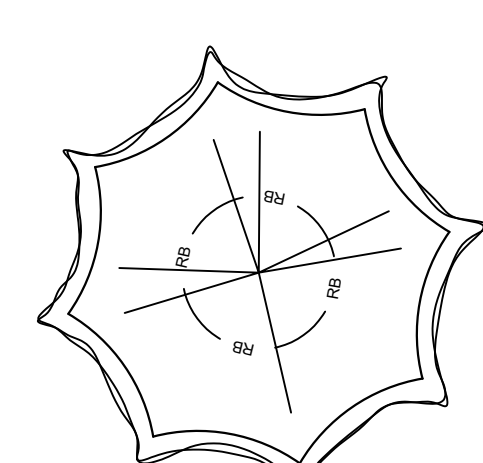
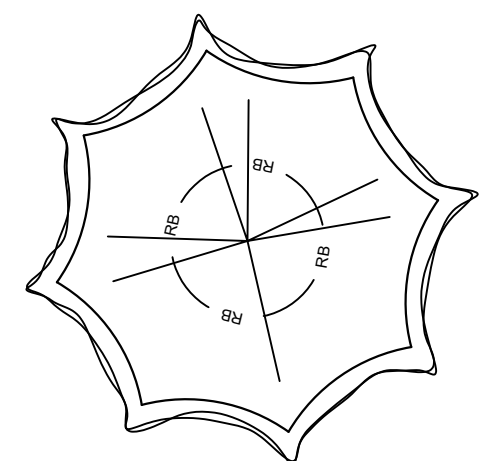
200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
VOG 1R0

7 NI-PG-902-01
BOULDER CLIMBER: 7 TON
3 QTY:
DIC.2

1 ENGINEERED WOOD FIBER (EWF)
279 m² [3007 sq.ft.]
DIS.1

6 NI-PG-704-03
CARVED LOG COUCH
2 QTY:
DIC.1

2 MULCH
28 m² [299 sq.ft.]
DIS.1



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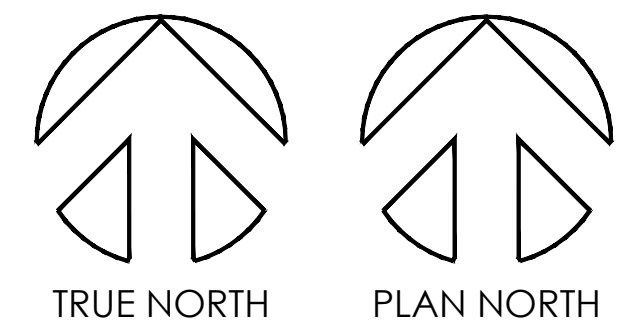
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SCALE
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SITE PLAN

L.1

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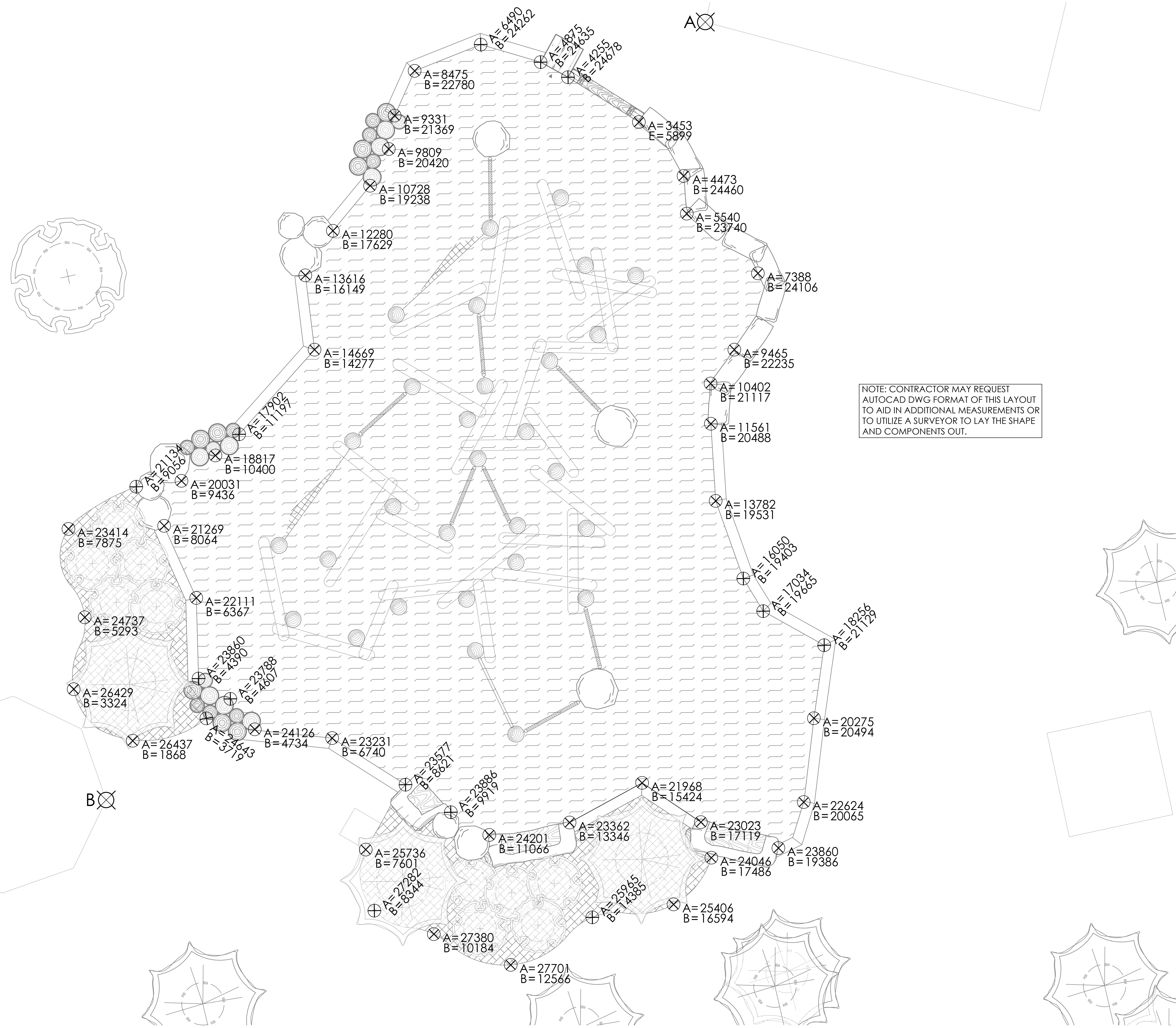
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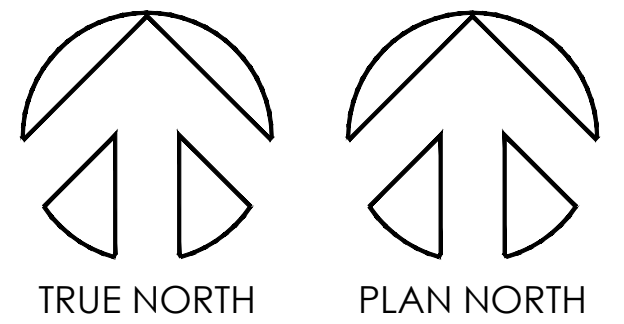
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DESIGN DR DRAWN RC REVIEWED DR/CS
TECHNICAL REVISED XX REVIEWED XX

SCALE
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LAYOUT
L.2
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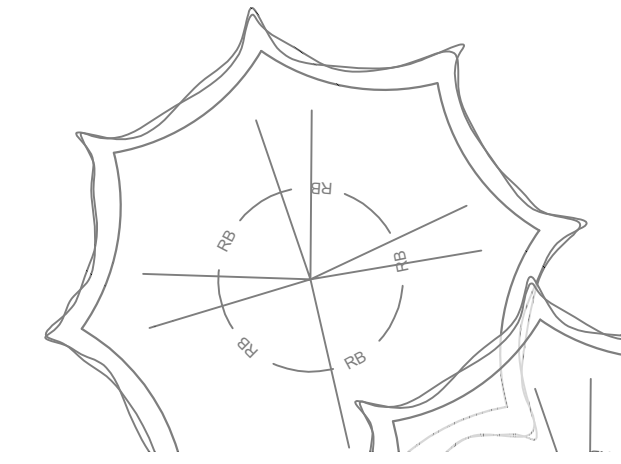
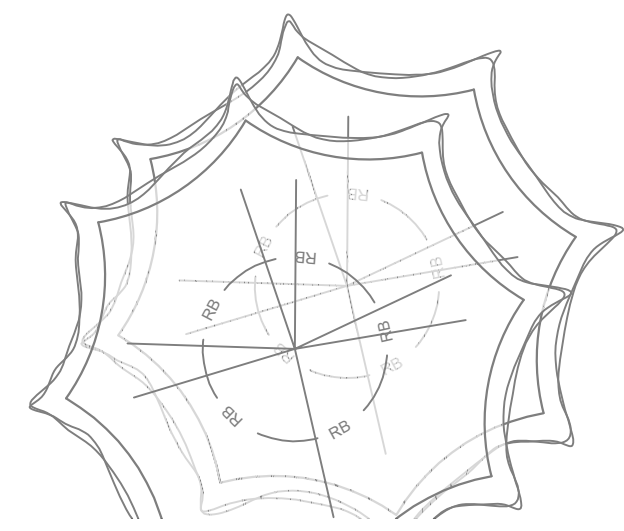
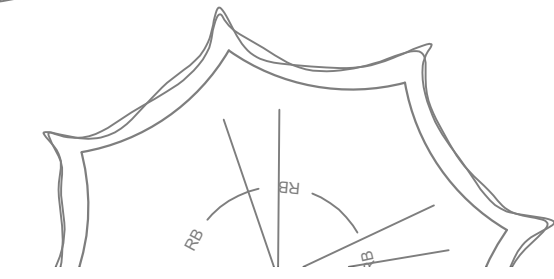
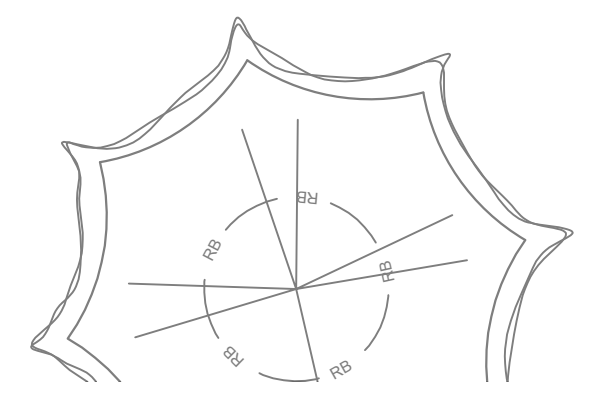
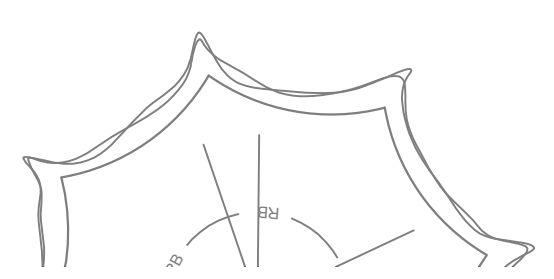
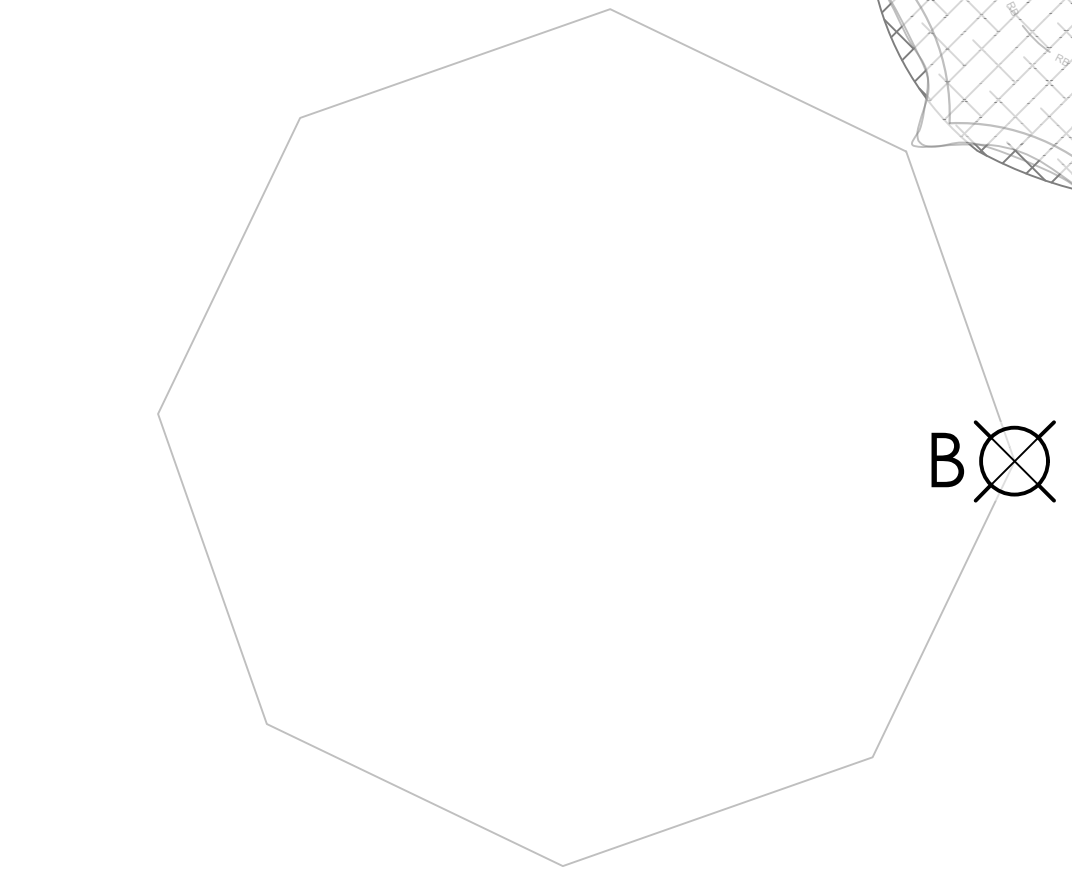
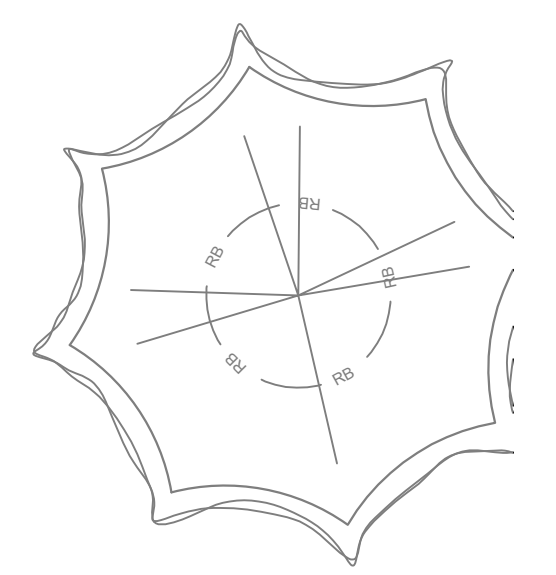
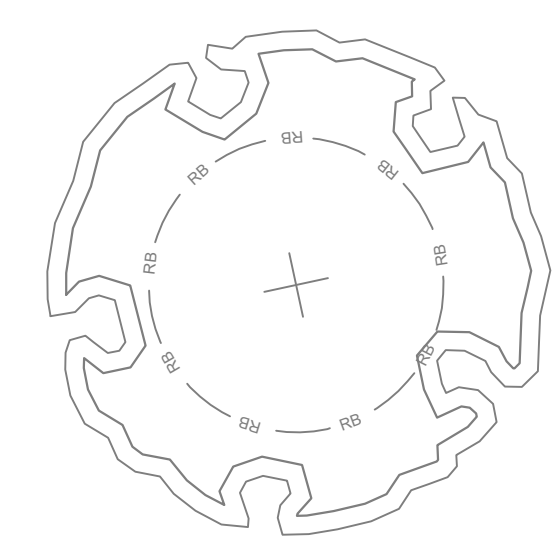
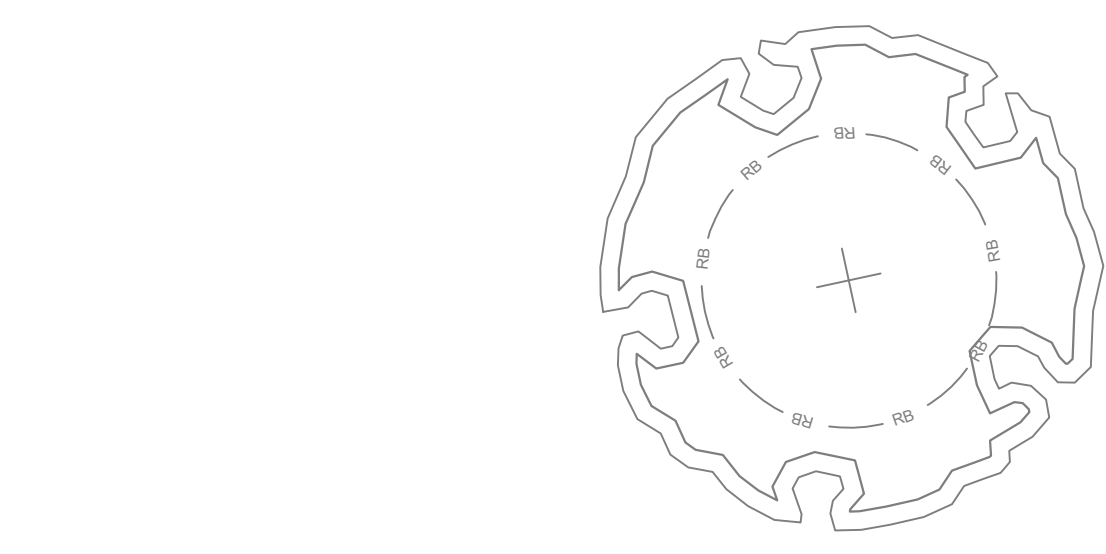
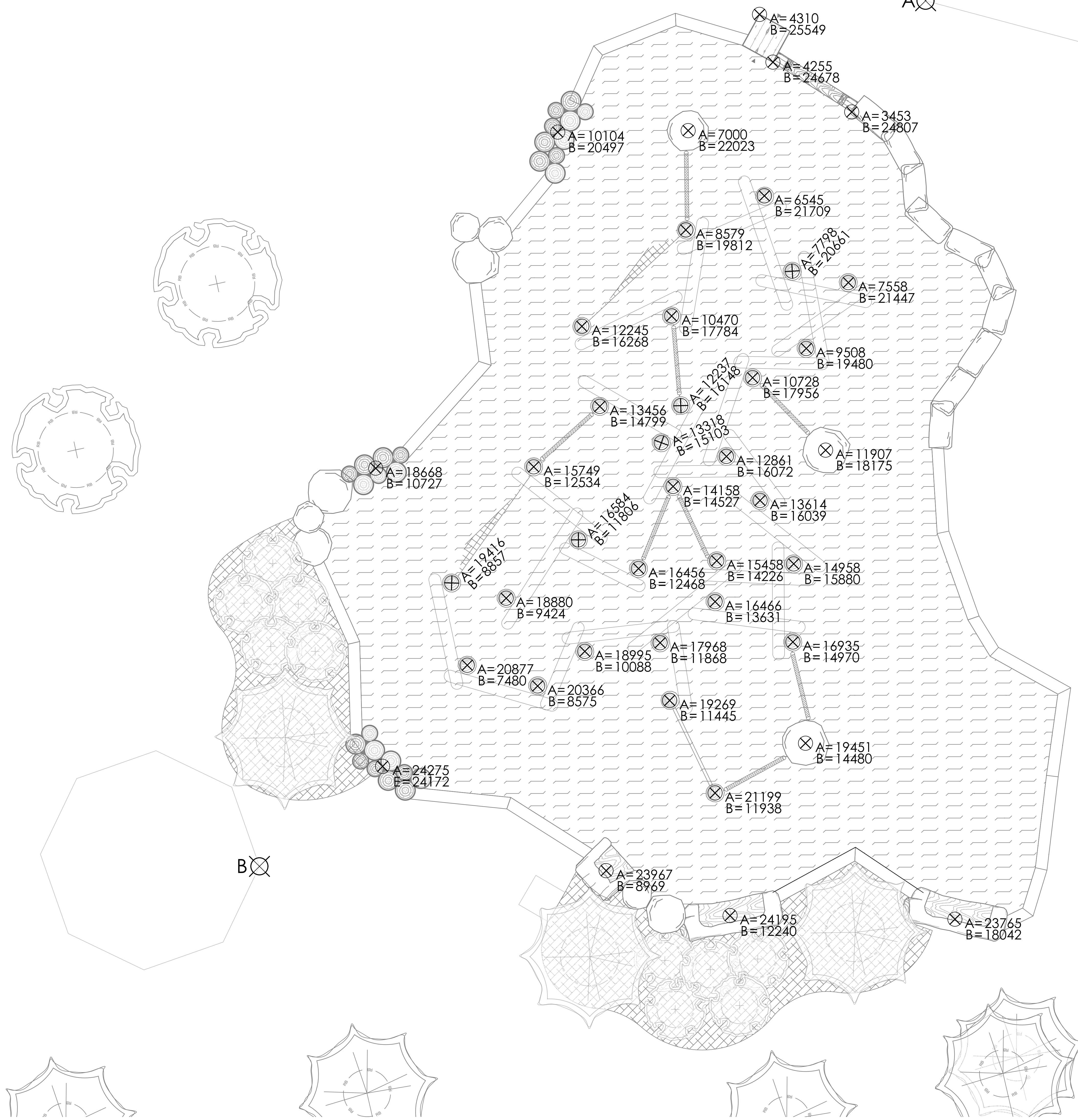
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LAYOUT
L.3



ELLS
HOOK UP

B

A=23967
B=8969

A=24195
B=12240

A=23765
B=18042

A=20877
B=7480

A=20366
B=8575

A=19269
B=11445

A=19451
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A=18880
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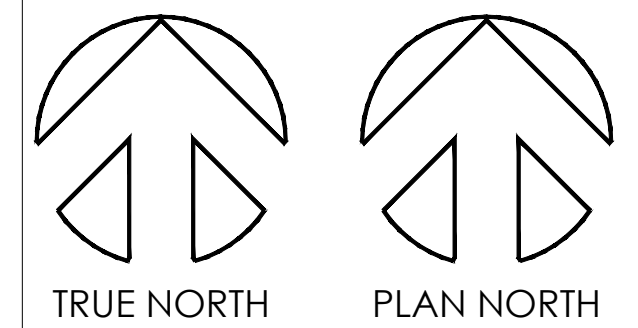
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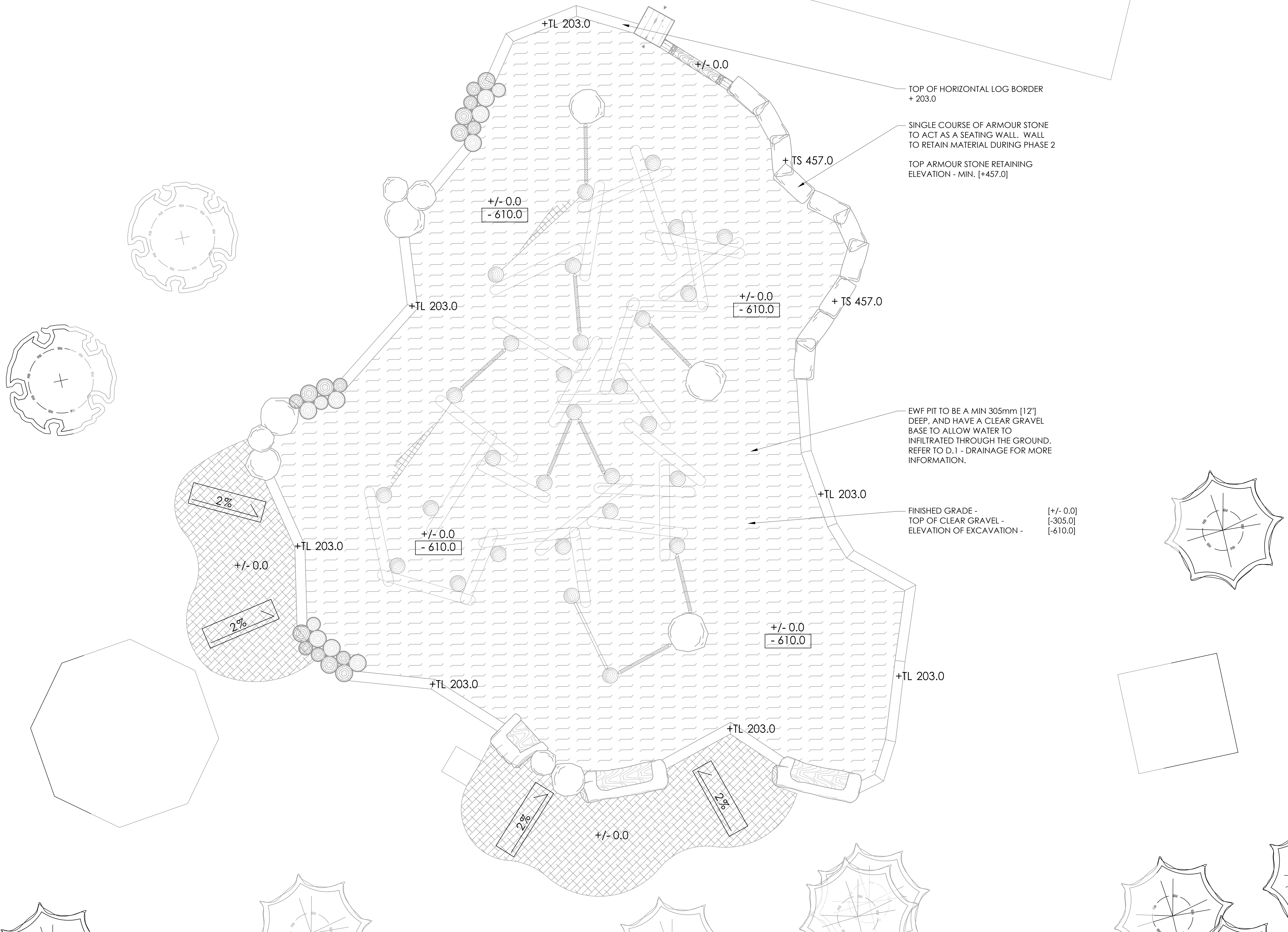
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GRADING
G.1



TOP OF HORIZONTAL LOG BORDER
+ 203.0

SINGLE COURSE OF ARMOUR STONE
TO ACT AS A SEATING WALL. WALL
TO RETAIN MATERIAL DURING PHASE 2

TOP ARMOUR STONE RETAINING
ELEVATION - MIN. [+457.0]

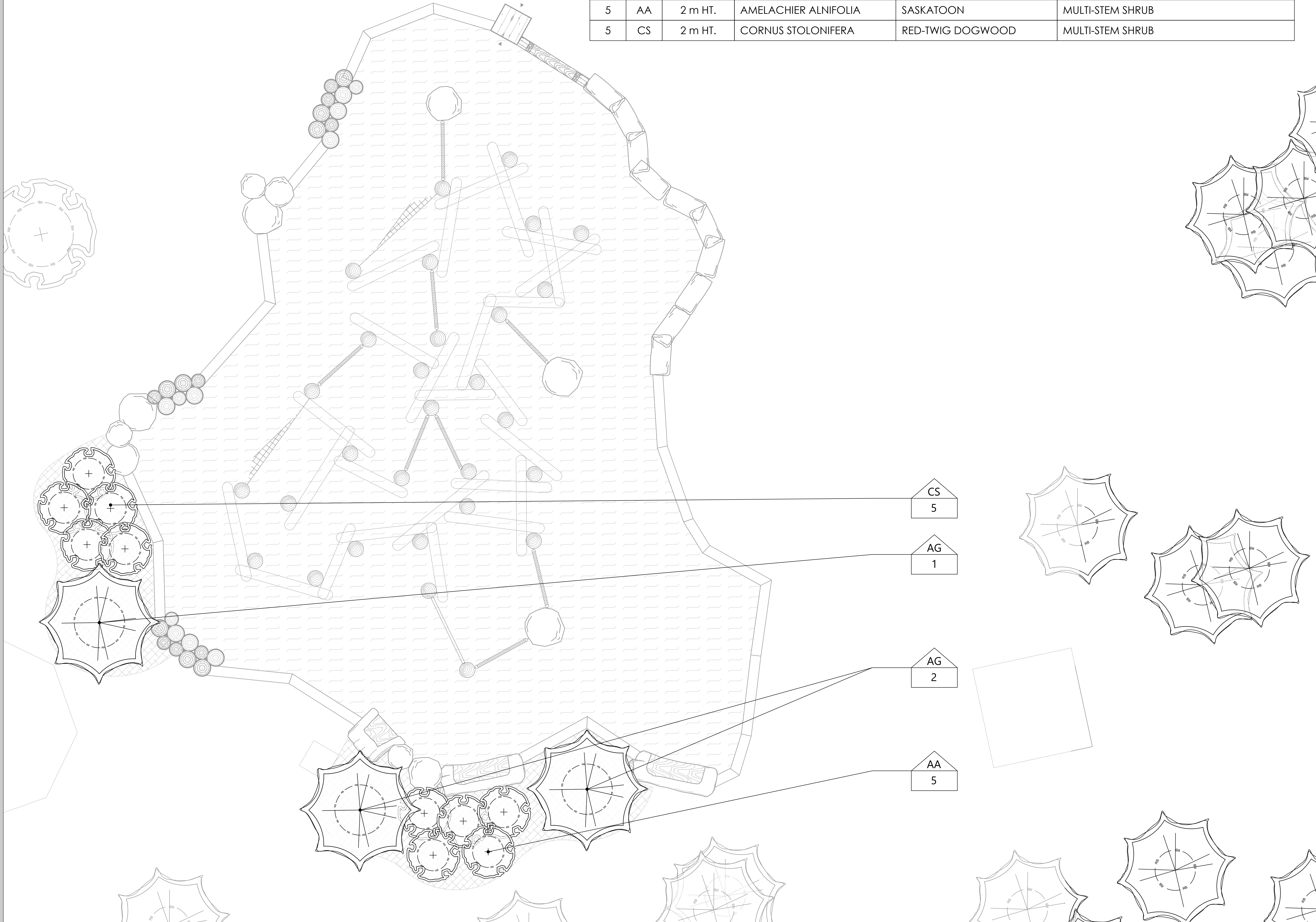
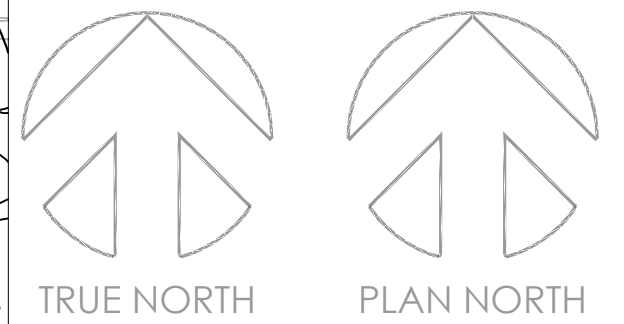
EWF PIT TO BE A MIN 305mm [12"]
DEEP, AND HAVE A CLEAR GRAVEL
BASE TO ALLOW WATER TO
INFILTRATED THROUGH THE GROUND.
REFER TO D.1 - DRAINAGE FOR MORE
INFORMATION.

FINISHED GRADE -
TOP OF CLEAR GRAVEL -
ELEVATION OF EXCAVATION -

[+/- 0.0]
[-305.0]
[-610.0]

QTY	KEY	SIZE	BOTANICAL NAME	COMMON NAME	NOTES
3	AG	3 m HT.	ABIES GRANDIS	GRAND FIR	SINGLE LEADER, SPECIMEN TREE
5	AA	2 m HT.	AMELACHIER ALNIFOLIA	SASKATOON	MULTI-STEM SHRUB
5	CS	2 m HT.	CORNUS STOLONIFERA	RED-TWIG DOGWOOD	MULTI-STEM SHRUB

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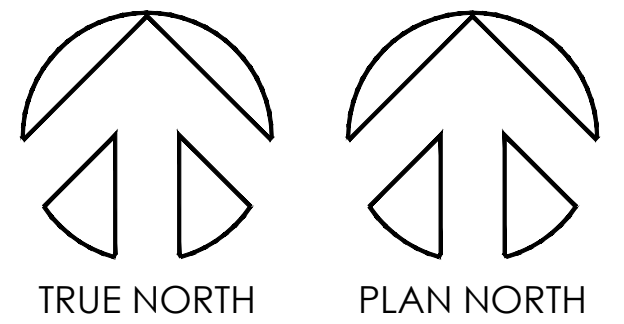
PROJECT
**NAKUSP COMMUNITY
PARK - PHASE 1**
200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
VOG 1R0

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ISSUED FOR REVIEW	20 JUL 2020
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DR	RC	DR/CS
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XX	XX	XX

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1:50
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PROJECT
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ISSUED FOR REVIEW	REV. DATE
20 JUL 2020	

DATE
20 Jul, 2020

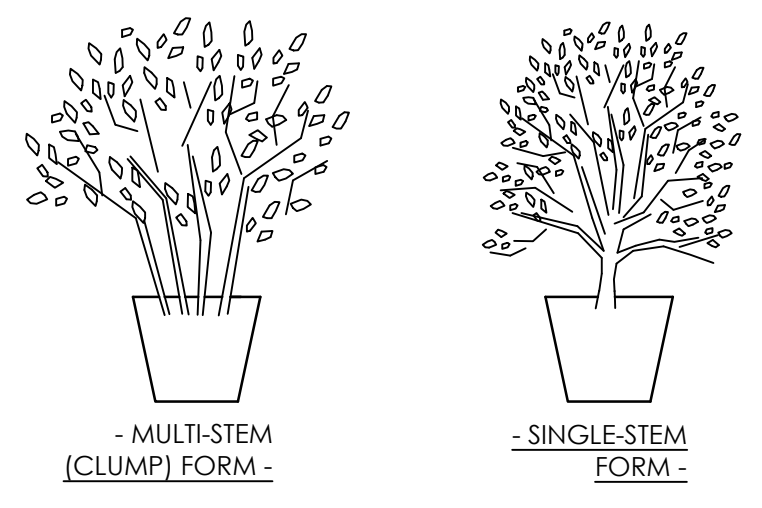
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DR	RC	DR/CS
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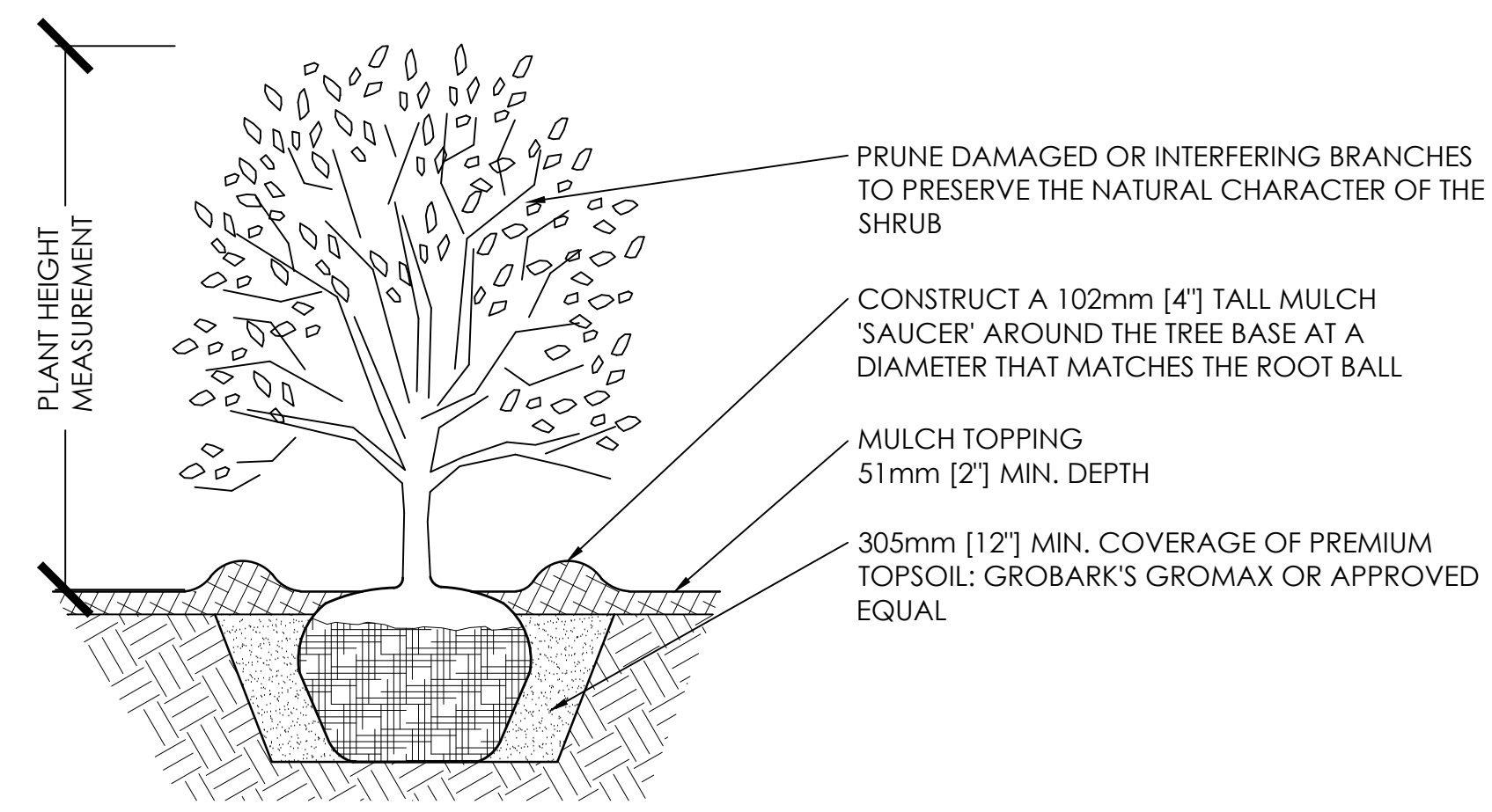
DETAILS - PLANTING
DTP.1

NOTES

1. SELECT SHRUBS WITH A NATURAL SHAPE.
2. REMOVE NURSERY POT PRIOR TO PLANTING (IF APPLICABLE).
3. PLANT HEIGHT SHALL BE MEASURED FROM FINISHED GRADE TO THE UPPER MAIN BODY OF THE PLANT.
4. PLANT HEIGHT SHALL BE NO LESS THAN 1524mm [5'-0"]
5. SHRUBS PLANTED IN GROUPS SHALL BE SET IN CONTINUOUS BEDS AS SHOWN ON PLAN.
6. ALL PLANTS SPECIFIED TO BE MULTI-STEMMED OR CLUMP FORM MUST HAVE MULTIPLE INDIVIDUAL WOODY STEMS EMERGING DIRECTLY FROM THE ROOT BALL - REFER TO THE DIAGRAM TO THE RIGHT.



PLANT ROOTBALL 51mm [2"] ABOVE FINISHED GRADE AND MOUND UP MULCH ON TOP



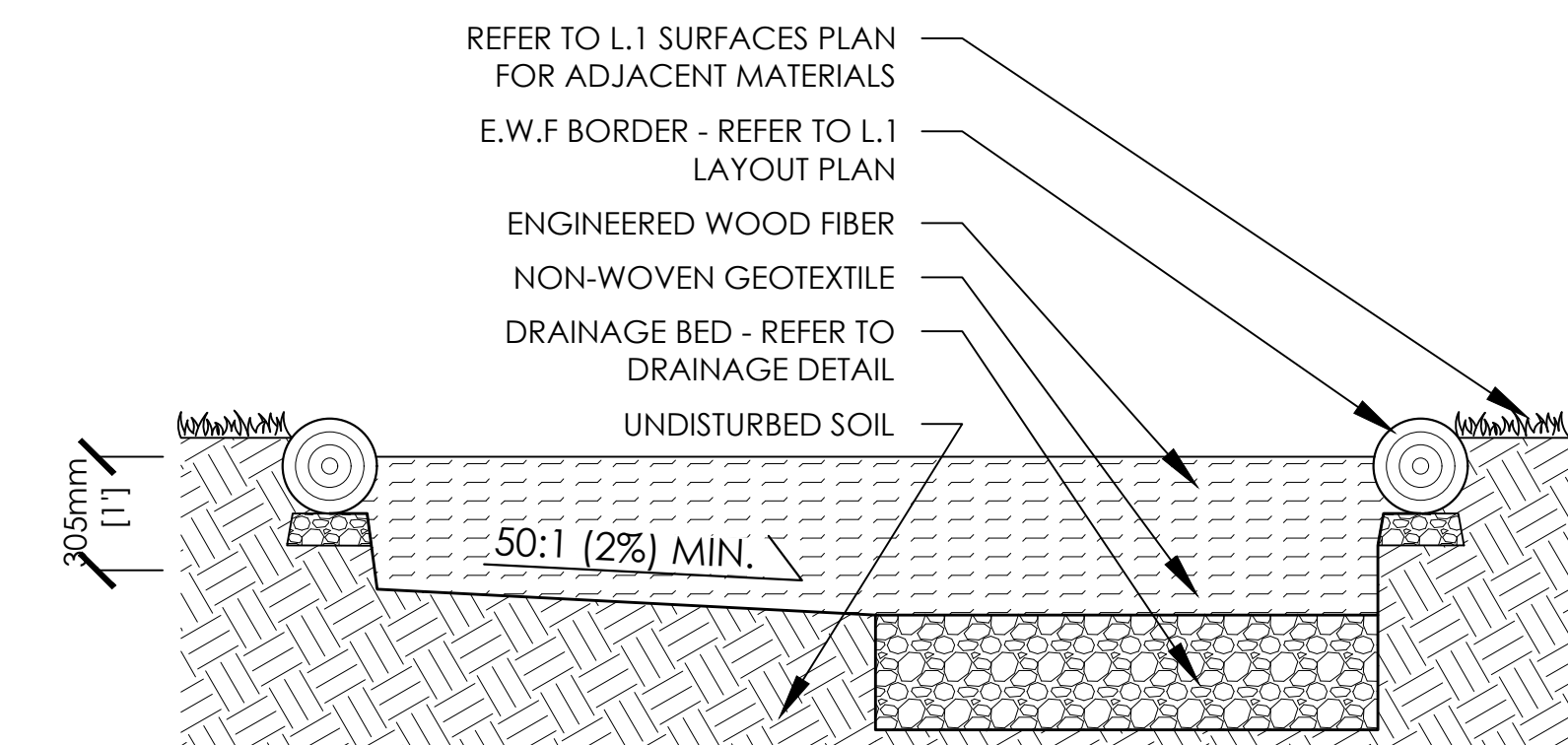
1 SHRUB PLANTING
1:20 SCALE



1 TREE PLANTING: CONIFEROUS
1:20 SCALE

NOTES

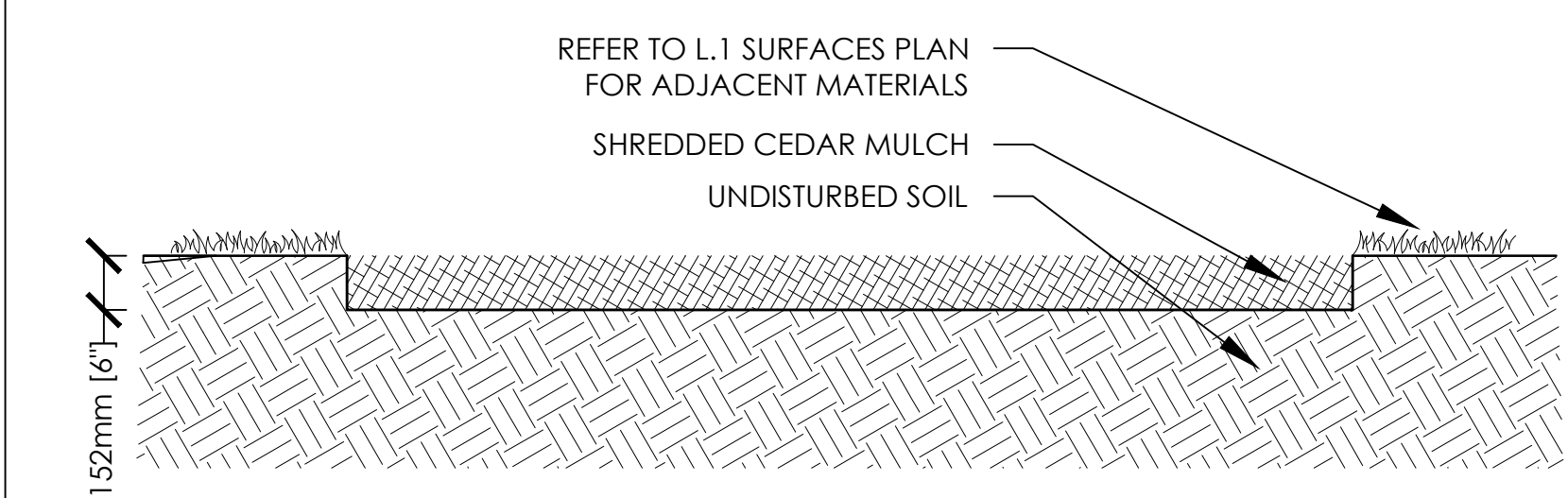
- E.W.F. MUST BE FREE OF CONTAMINANTS AND NON-VIRGIN WOOD.
- DEPTH OF E.W.F. VARIES DUE TO SLOPED BASE (FOR DRAINAGE). UNDER CONVENTIONAL INSTALLATION, E.W.F. SHALL BE NO LESS THAN A DEPTH OF 305mm [12"].
- REFER TO GRADING PLAN FOR ACCURATE DEPTH OF PIT
- FOR ACCESSIBILITY, E.W.F. MUST BE COMPACTED AND TESTED USING A ROTATIONAL PENETROMETER BY A CERTIFIED ACCESSIBILITY INSPECTOR.
- THE E.W.F SURFACE SHALL BE APPROX 102mm [4"] BELOW THE ELEVATION OF SURROUNDING SURFACES UNLESS OTHERWISE NOTED. (REFER TO G.1 GRADING PLAN).
- NON-WOVEN GEOTEXTILE TO BE LAID BETWEEN E.W.F AND DRAINAGE BED/ UNDISTURBED SOIL.
- FOR E.W.F BORDER REFER TO L.1 LAYOUT PLAN
- E.W.F SURFACING MUST HAVE A DRAINAGE BED.
- SLOPE BASE OF THE E.W.F TOWARDS THE DRAINAGE BED. FOR DRAINAGE BED LOCATION REFER TO DR.1 DRAINAGE PLAN. FOR INSTALLATION METHOD REFER TO DRAINAGE DETAIL



1 ENGINEERED WOOD FIBER (E.W.F)
1:20 SCALE

NOTES

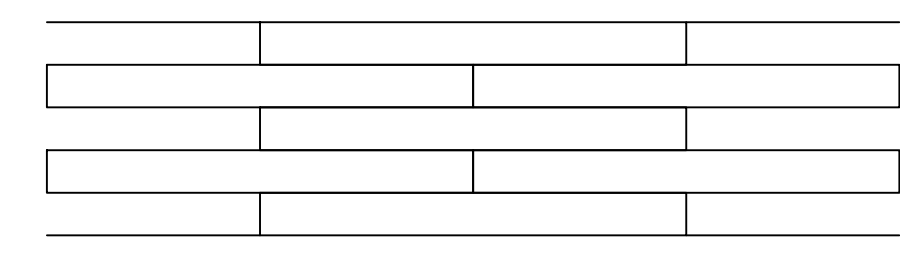
- ELIMINATE ALL LARGE CHUNKS OF WOOD OR FOREIGN OBJECTS.
- MULCH TO BE A DEPTH OF 152mm [6"] UNLESS OTHERWISE NOTED.
- COMPACT SHREDDED CEDAR MULCH WITH MECHANICAL COMPACTION EQUIPMENT.
- MEET ELEVATION OF EDGES WITH ADJACENT SURFACING.
- FOLLOW ADJACENT SURFACING INSTALLATION DETAILS.
- RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.
- WHERE SHREDDED CEDAR MULCH MEETS HARD SURFACES, COMPACT MULCH AND ADD MULCH UNTIL MULCH SURFACE IS EXACTLY THE SAME ELEVATION AS THE HARD SURFACE.
- IT IS RECOMMENDED AN EDGING PRODUCT BE INSTALLED WHERE MULCH MEETS LAWN.
- DCN 127mm [5"] LAWN EDGING, AVAILABLE FROM RONA, OR SIMILAR APPROVED.
- INSTALL EDGING AS PER MANUFACTURER'S INSTRUCTIONS.



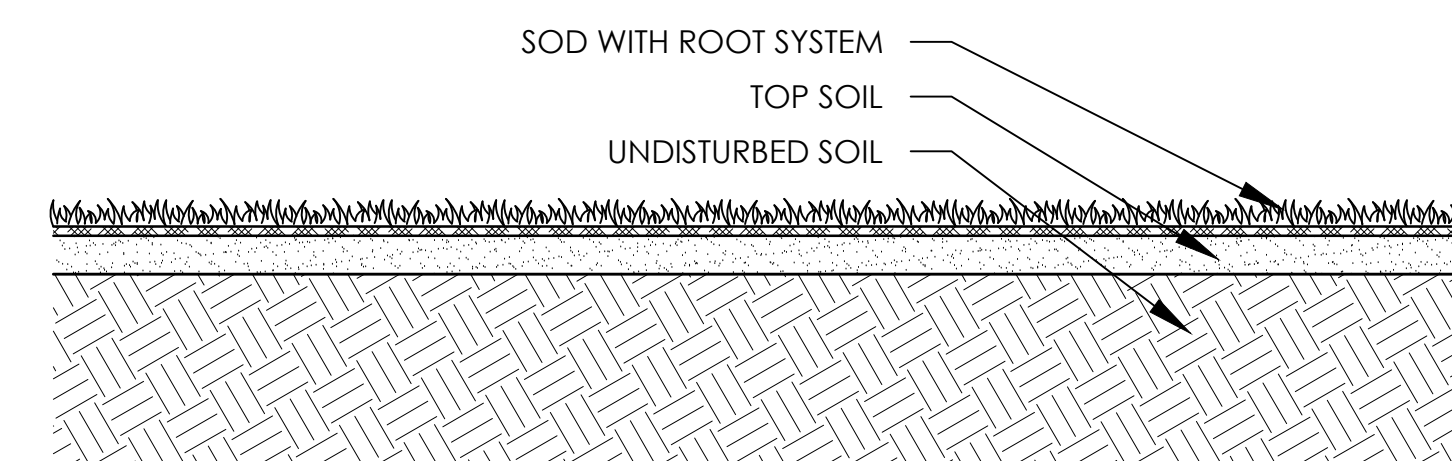
2 SHREDDED CEDAR MULCH
1:20 SCALE

NOTES

- SOD SHALL BE RTF - RHIZOMATOUS TALL FESCUE, UNLESS OTHERWISE STATED.
- THE SUBSOIL LAYER SHALL BE ROUGH GRADED TO ELIMINATE LARGE BUMPS AND DIVOTS.
- INSTALL 102mm [4"] OF FINELY SCREENED SAND-BASED TOPSOIL OVERTOP OF SUBSOIL.
- RAKE TOPSOIL SMOOTH.
- ROLL TOPSOIL TO ELIMINATE LARGE AIR POCKETS.
- TOPSOIL SHOULD BE FIRM ENOUGH TO WALK ON WITHOUT LEAVING LARGE DEPRESSIONS.
- LAY SOD OVERTOP OF TOPSOIL. INSTALL SOD ACCORDING TO GOOD TURF GRASS INSTALLATION METHODS AND TECHNIQUES AND/OR GROWERS RECOMMENDATIONS AND ACCORDING TO THE FOLLOWING INSTRUCTIONS:
- a. SOD TO BE LAID IN RUNNING BOND PATTERN (SEE DRAWING); KNIT EDGES OF SOD TOGETHER TO PROMOTE PROPER GROWTH.
- b. SOD SHOULD BE INSTALLED MAXIMUM 12 HOURS AFTER PURCHASE.
- c. WATER SOD AS PER SUPPLIER'S RECOMMENDATIONS.
- MEET AND MATCH EDGES WITH ADJACENT SURFACING.
- FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.



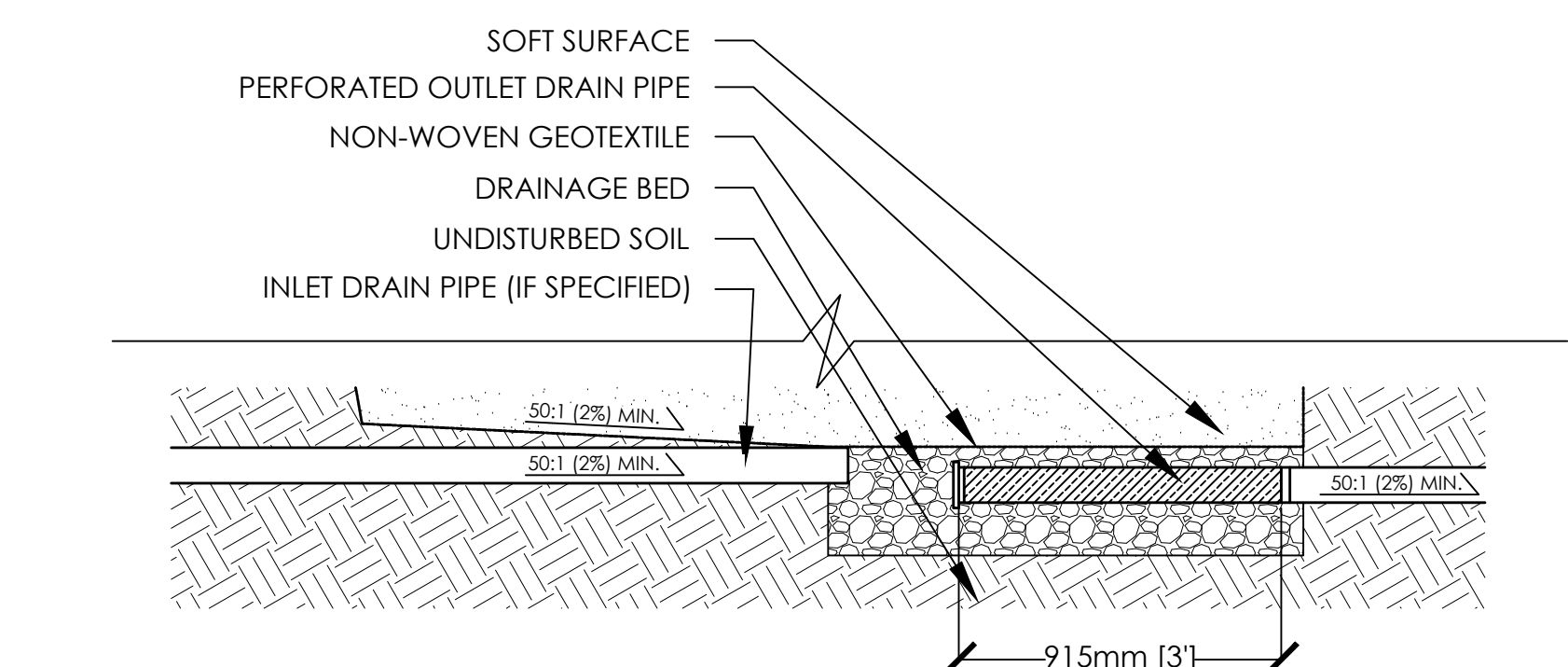
- PLAN: SOD INSTALLATION PATTERN -



3 SOD
1:20 SCALE

NOTES

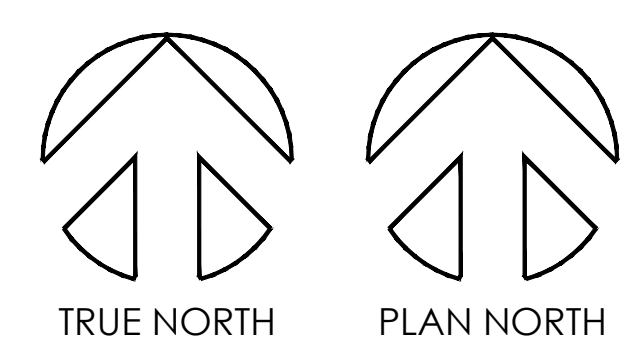
- ENSURE THE BASE OF THE SOFT SURFACE IS SLOPED TOWARDS THE DRAINAGE BED AT A MINIMUM OF 1:50 (2%).
- DRAINAGE BED TO BE A MINIMUM 304mm [12"] DEEP AND SIZED TO HOLD A MINIMUM OF A 15 MINS. OF RAIN FALL FOR A 25 YEAR STORM. (SEE DR.1 DRAINAGE PLAN FOR EXACT SIZES)
- DRAINAGE BED TO BE A MIN. 305mm [12"] DEEP OF 19-25mm [3/4"-1"] CLEAR GRAVEL. UNLESS OTHERWISE STATED.
- THE CLEAR GRAVEL DRAINAGE LAYER SHALL HAVE A GEOTEXTILE FABRIC SURROUNDING IT ON ALL SIDES TO MAINTAIN MATERIAL INTEGRITY.
- ALL DRAIN PIPES SHALL HAVE POSITIVE DRAINAGE - INSTALL AT MIN. 1:100 (1%) SLOPE.
- OUTLET PIPE MUST BE A MINIMUM 100mm [4"] BELOW THE LOWEST INLET PIPE.
- ENSURE OUTLET PIPE HAS A MINIMUM 914mm [36"] LONG SECTION OF PERFORATED PIPE W/CAP WITHIN THE GRAVEL BED.
- PERFORATED DRAINAGE PIPE IN GRAVEL TO BE CAPPED.
- FOR PIPE INVERTS SEE DR.1 DRAINAGE PLAN
- FOR PIPE DIAMETERS SEE DR.1 DRAINAGE PLAN
- 10.1. DRAIN PIPES TO BE A MINIMUM 100mm [4"] UNLESS OTHERWISE NOTED.



4 DRAINAGE BED: WITH GRAVEL
1:20 SCALE



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PROJECT
NAKUSP COMMUNITY PARK - PHASE 1
200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
VOG 1R0

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DATE	20 Jul, 2020
DESIGN	DR
DRAWN	RC
REVIEWED	DR/CS
TECHNICAL REVISED	XX
REVIEWED	XX

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DETAILS - SURFACING
DTS.1

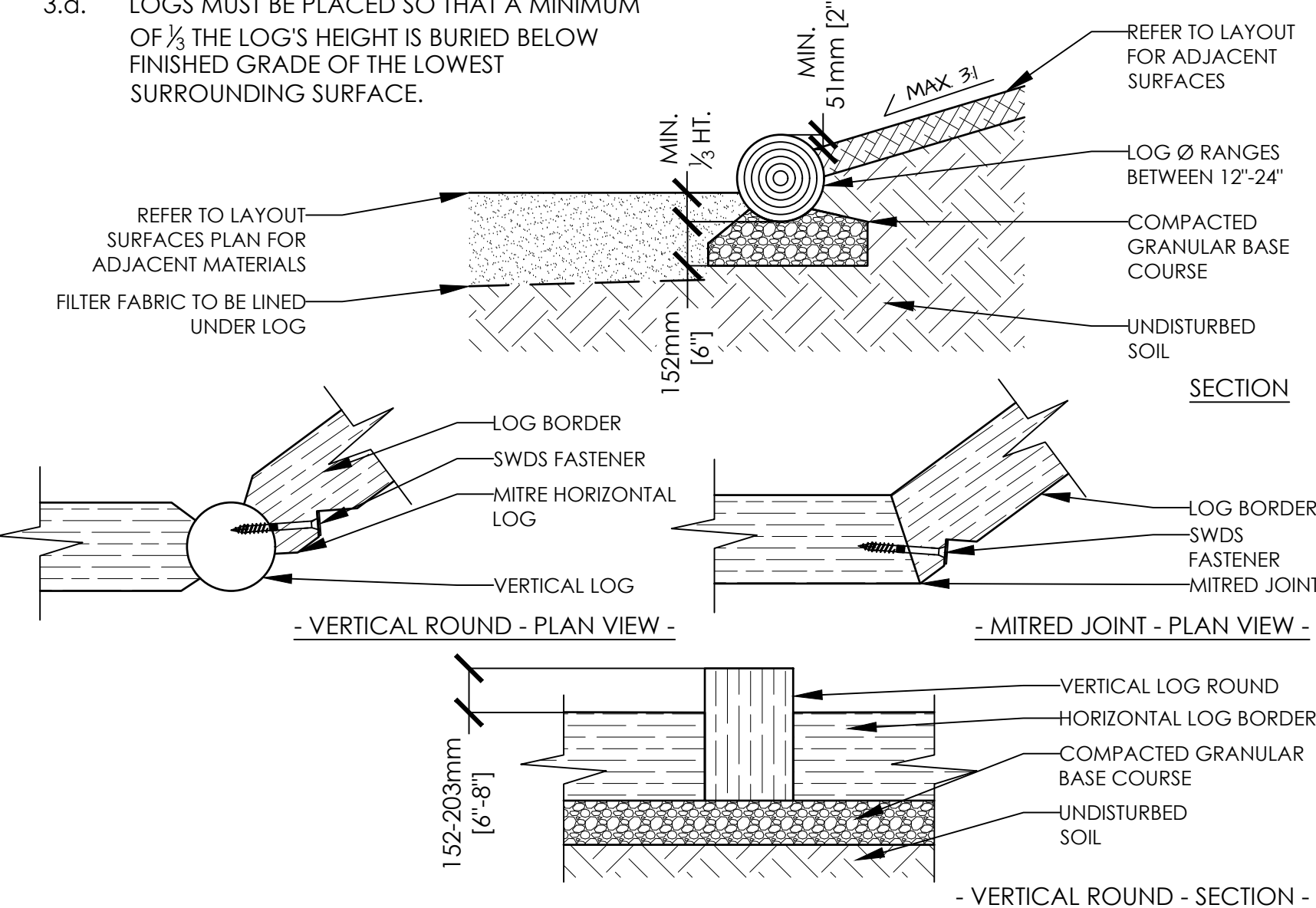
COMPONENTS

NATURE'S INSTRUMENTS HORIZONTAL LOG - VARIOUS Ø'S (SOFTWOOD [CEDAR] OR HARDWOOD) BORDER NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT INCLUDED)

- LOGS (SOFTWOOD [CEDAR] OR HARDWOOD), ORDER BY LINEAR FOOT.
- 254mm [10"] SDWS: x2 PER LOG

NOTES

- LOGS ARE SUPPLIED WITH SQUARE ENDS, A LAYOUT PLAN MUST BE SUPPLIED TO NATURE'S INSTRUMENTS WHEN PLACING THE ORDER TO CALCULATE REQUIRED LENGTH LOG BORDER.
- MITRE LOGS ON SITE AND INSTALL BORDER ACCORDING TO THE LAYOUT PLAN.
 - MITRES TO HAVE A GAP NO LARGER THAN 2mm [1/16"] DRILL AND COUNTERSINK HOLES FOR FASTENERS.
 - FASTEN MITRES TOGETHER WITH SUPPLIED SDWS.
 - SET INTO FINISHED GRADE:
 - LOGS MUST BE PLACED SO THAT A MINIMUM OF 1/2 THE LOG'S HEIGHT IS BURIED BELOW FINISHED GRADE OF THE LOWEST SURROUNDING SURFACE.
- IF BORDER LOGS ARE USED TO RETAIN A LOOSE FILL MATERIAL, FILTER FABRIC IS TO BE INSTALLED UNDER THE BORDER LOG AND CONTINUE UNDER THE LOOSE FILL MATERIAL TO PREVENT ACCESS TO THE BORDER BASE OR THE TERRA-FIRMA UNDER THE LOG BORDER.
 - FILTER FABRIC TO BE NILEX 4535 NON-WOVEN GEO-TEXTILE, OR APPROVED EQUAL.
 - GRANULAR BASE COURSE TO BE 152mm [6"] MIN. DEPTH OF CRUSHED GRAVEL (OR 19mm [3/4"] CLEAR GRAVEL) COMPACTED TO 95% SPDD.



1 HORIZONTAL LOG BORDER (SOFTWOOD & HARDWOOD)
1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-605-XX (MULTI PRODUCT DETAIL)

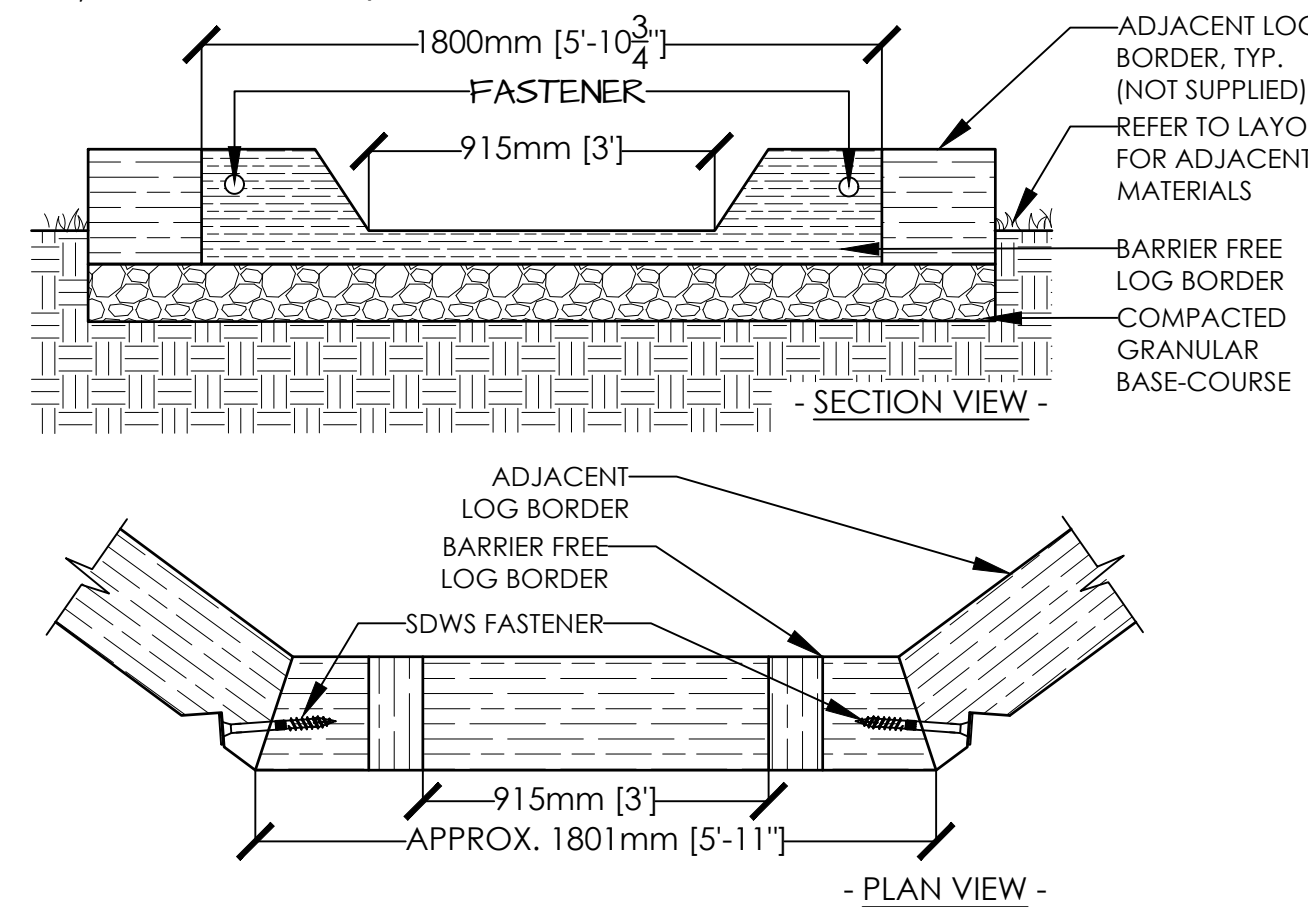
COMPONENTS

NATURE'S INSTRUMENTS 305mm [12"] Ø BARRIER-FREE LOG BORDER WITH 914mm [36"] OPENING NI PACKAGE INCLUDES:

- LOG BORDER ACCORDING TO SUPPLIED LAYOUT
- ANGLES ARE APPROXIMATE
- SDWS FASTENERS INCLUDED
- BARRIER FREE SECTION PRE-CUT AND SANDED

NOTES

- TO BUILD THE LOG BORDER WITH THE CORRECT ANGLE ON THE MITRED CORNERS, A LAYOUT PLAN MUST BE SUPPLIED TO NATURE'S INSTRUMENTS WHEN PLACING THE ORDER.
- POSITION BARRIER-FREE LOG BORDER ACCORDING TO THE LAYOUT PLAN.
- BORDER LOGS SHOULD REMAIN 2/3 EXPOSED ABOVE FINISHED GRADE
- IF BORDER LOGS ARE USED TO RETAIN A LOOSE FILL MATERIAL GEOTEXTILE IS TO BE INSTALLED UNDER THE BORDER LOG AND CONTINUE UNDER THE LOOSE FILL MATERIAL TO PREVENT ACCESS TO THE BORDER BASE OR THE TERRA-FIRMA UNDER THE LOG BORDER.
 - FILTER FABRIC TO BE NILEX 4535 NON-WOVEN GEO-TEXTILE, OR APPROVED EQUAL.
- LOG BORDER MAY BE INSTALLED DIRECTLY ON TERRA-FIRMA, IF THE GROUND IS A FREE-DRAINING MATERIAL.
- GRANULAR BASE COURSE TO BE 152mm [6"] MIN. DEPTH OF CRUSHED GRAVEL (OR 19mm [3/4"] CLEAR GRAVEL) MECHANICALLY COMPACTED.
- POSITION LOGS ACCORDING TO THE LETTER LABELING (MATCH LETTERS).
- LINE UP MITERED JOINTS. MITERS ARE TO HAVE A GAP NO LARGER THAN 2mm [1/16"] FASTEN MITERS TOGETHER WITH SUPPLIED FASTENERS IN PRE-DRILLED, COUNTERSUNK HOLES



2 BARRIER FREE LOG BORDER (914mm [36"] OPENING)
1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-605-05

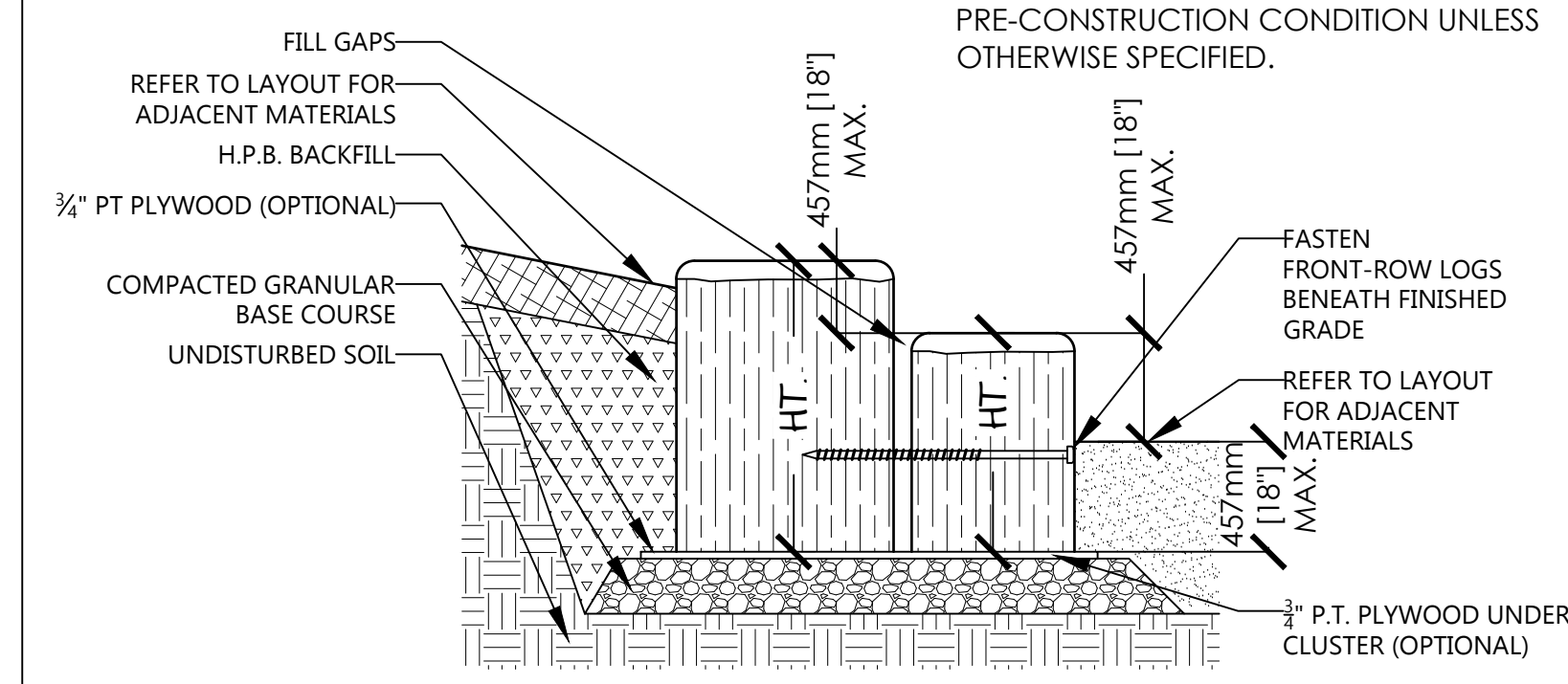
COMPONENTS

NATURE'S INSTRUMENTS LOG CLUSTER BORDER, NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- PRE-ASSEMBLED LOG STUMP SET: x1
 - MADE FROM 406-508mm [16"-20"] Ø NATURAL LOGS
 - EACH SET IS LABELLED WITH PRODUCT CODE
- 457mm [12"] SDWS FASTENERS: x2
- HARDWOOD PLUG: x2

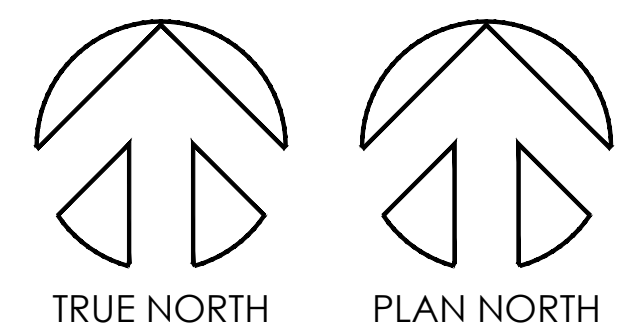
NOTES

- NATURE'S INSTRUMENTS NI-PG-606-10 LOG CLUSTER BORDER.
- MAINTAIN BARK ON LOGS WHEREVER POSSIBLE.
- POSITION BORDER ACCORDING TO THE CLUSTER SITE PLAN.
- FRONT ROW OF LOGS TO BE INSTALLED SO THAT THE TOP SURFACE OF EACH LOG IS NO MORE THAN 457mm [18"] ABOVE FINISHED GRADE.
- DIG A TRENCH 203mm [8"] LARGER THAN DIMENSIONS OF CLUSTER TO 254mm [10"] DEPTH BELOW FINISHED GRADE OF THE LOW SIDE OF THE BORDER.
- FILL THE BOTTOM OF THE TRENCH WITH 102mm [4"] DEPTH OF CRUSHED GRAVEL.
- 3/4" P.T. PRESSURE TREATED PLYWOOD MAY BE PLACED UNDER THE LOG CLUSTERS WHEN ADDITIONAL CUTTING IS REQUIRED FOR MARRYING AGAINST ADJACENT BORDER.
- IF LOGS ARE USED TO RETAIN A LOOSE FILL MATERIAL, FILTER FABRIC IS TO BE ATTACHED TO THE BORDER LOGS BENEATH THE FINISHED SAFETY SURFACE. TO PREVENT ACCESS TO THE BASE COURSE AND TERRA-FIRMA UNDER THE LOGS.
 - FILTER FABRIC TO BE NILEX 4535 NON-WOVEN GEO-TEXTILE, OR APPROVED EQUAL.
- PLACE THE ASSEMBLED SETS OF LOGS IN LOCATION DESIGNATED ON CLUSTER AND/OR LAYOUT PLAN ON THE GRANULAR BASE COURSE. ABUT THE LOGS TIGHT TO ADJACENT BORDER AND ENSURE EACH LOG SET IS PLUMB AND STABLE.
- IF THERE IS MOVEMENT, FASTEN THE LOG SETS TO EACH OTHER USING THE STRUCTURAL SCREWS. ALL FRONT-ROW LOGS MUST BE FASTENED BELOW THE GRADE OF ADJACENT SURFACES SO THE SCREWS ARE NOT VISIBLE.
- BACKFILL BEHIND THE BACK ROW OF LOGS WITH HIGH PERFORMANCE BEDDING (H.P.B.) OR CLEAR GRAVEL.
- RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION UNLESS OTHERWISE SPECIFIED.



3 LOG CLUSTER
1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-606-10

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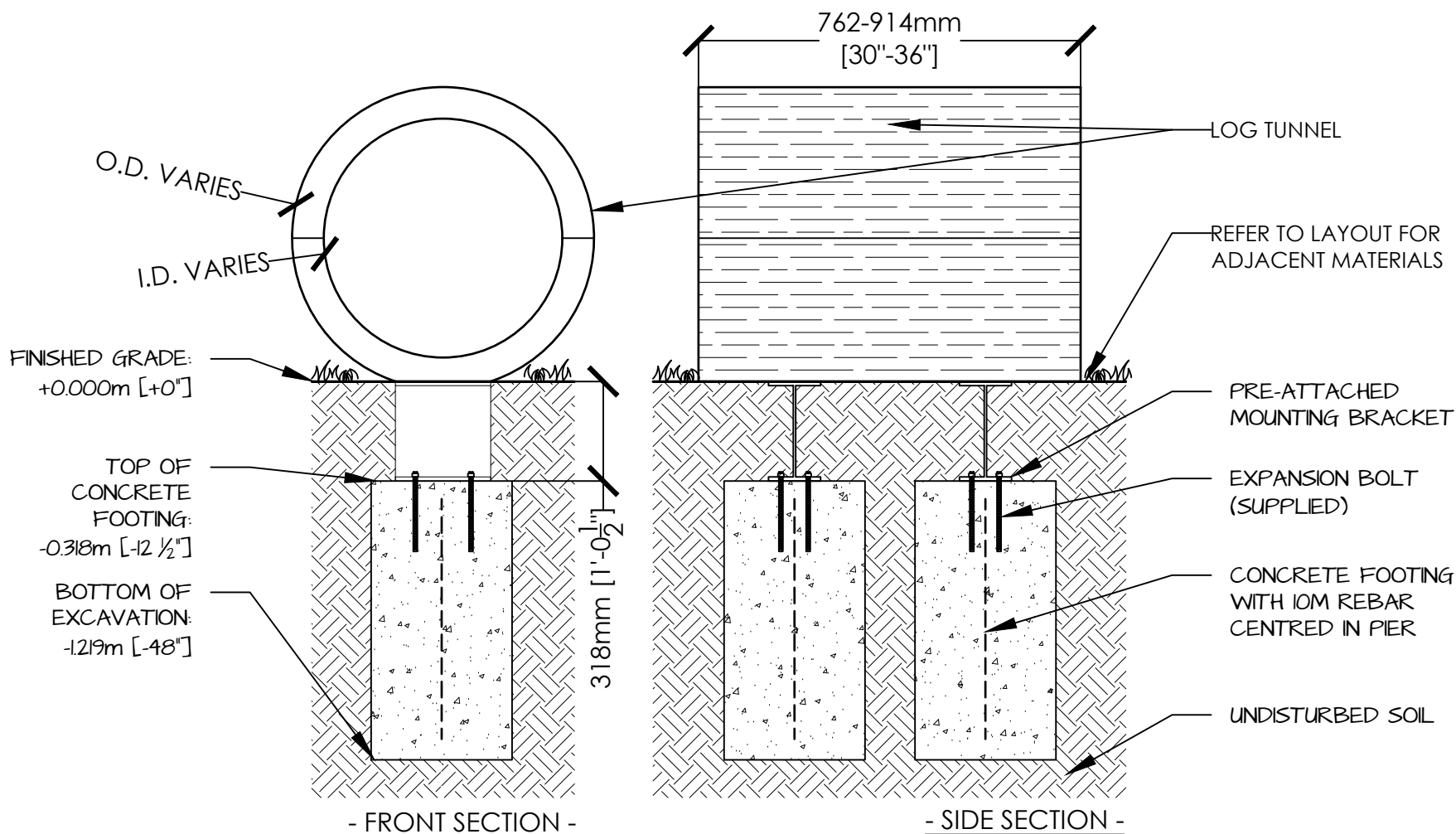
COMPONENTS

NATURE'S INSTRUMENTS LOG TUNNEL (PUBLIC USE), NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- LOG TUNNEL WITH PRE-ATTACHED MOUNTING BRACKETS: x1
- EXPANSION BOLT: x8

NOTES

- LOG TUNNEL IS A GROUND LEVEL PLAY COMPONENT AND IS NOT INTENDED FOR CLIMBING.
- PLACE TUNNEL AT LEAST 914mm [36"] AWAY FROM ADJACENT OBJECTS, AT LEAST 1830mm [72"] FROM HIGH TRAFFIC AREAS & GROSS MOTOR PLAY COMPONENTS AND AT LEAST 1219mm [48"] AWAY FROM FENCES.
- LOG TUNNEL IS A UNIQUE NATURAL WOOD PRODUCT, THEREFORE THE MOUNTING CLEAT POSITIONS WILL VARY DUE TO THE NATURAL SHAPE OF THE LOG.
 - MEASURE THE EXACT DISTANCE BETWEEN THE MOUNTING CLEATS BEFORE DIGGING FOOTING HOLES.
- INSTALL THE TUNNEL ON TWO 457mm [18"] Ø REINFORCED CONCRETE PIER FOOTINGS.
 - FOOTINGS MUST EXTEND BELOW THE FROST LINE; AT LEAST 1219mm [48"] DEPTH BELOW FINISHED GRADE.
 - PLACE TUNNEL WITH MOUNTING CLEATS CENTRED ON PIERS.
 - BRACE THE TUNNEL AND DRILL 257mm [10"] DEEP INTO THE CONCRETE THROUGH EACH MOUNTING CLEAT HOLE.
 - INSTALL EXPANSION BOLTS.
 - RESTORE ADJACENT SURFACE TO ORIGINAL CONDITIONS.
 - ENSURE THAT THE ENDS OF TUNNEL ARE 51mm [2"] ABOVE FINISHED SURFACE.
 - FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.



4 LOG TUNNEL: PUBLIC USE
1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-609-02

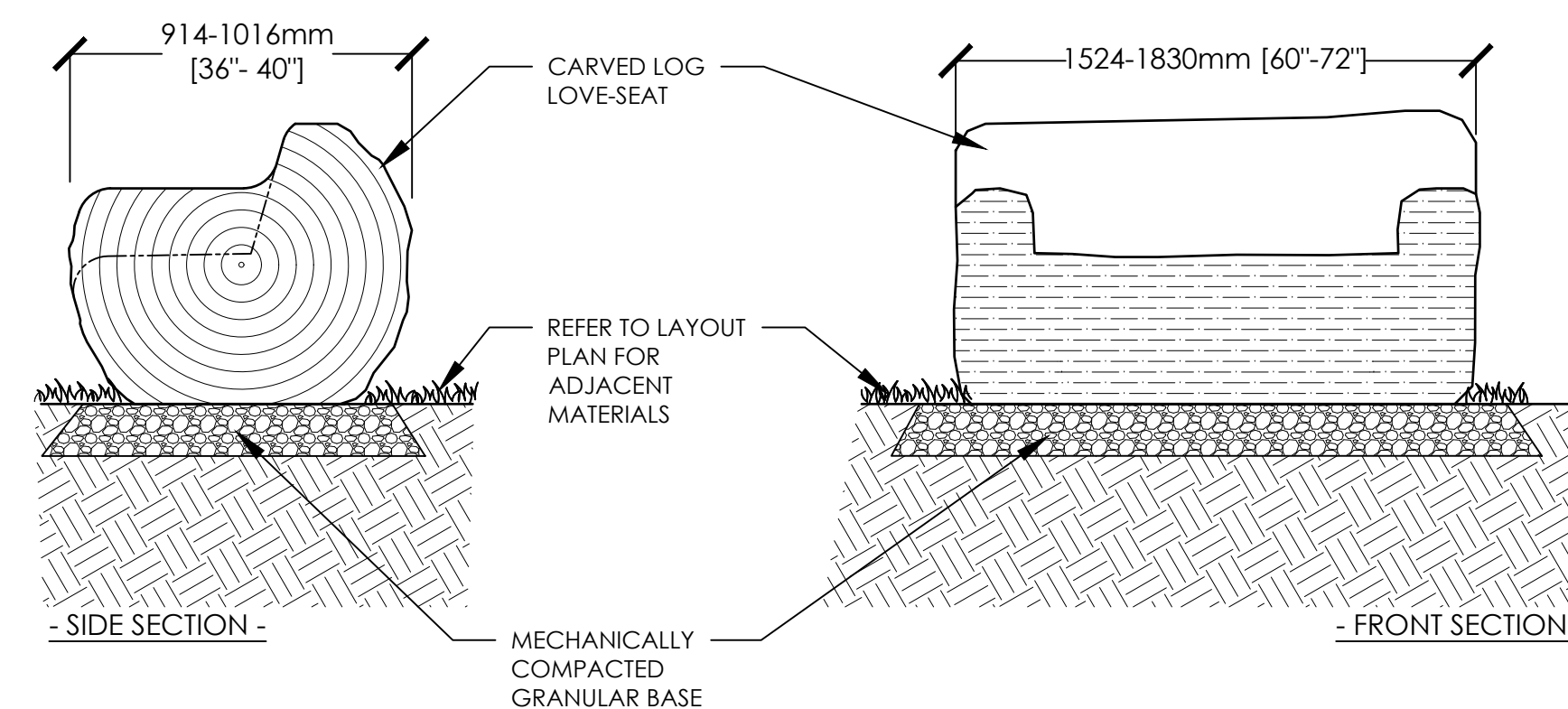
COMPONENTS

NATURE'S INSTRUMENTS CARVED LOG LOVESEAT NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- FULLY ASSEMBLED CARVED HARDWOOD LOG LOVESEAT: x1

NOTES

- PLACEMENT OF LOVE-SEAT TO ALLOW FOR CIRCULATION; IT IS RECOMMENDED THAT AT LEAST 914mm [36"] CLEAR SPACE BE ALLOCATED AROUND ALL SIDES OF THE LOVE-SEAT. 1219mm [48"] CLEAR SPACE IS PREFERRED.
- GRANULAR BASE COURSE TO BE 152mm [6"] MIN. DEPTH OF CRUSHED GRAVEL (OR 19mm [3/4"] CLEAR GRAVEL) MECHANICALLY COMPACTED.
- ENSURE GRANULAR BASE IS LEVEL AND PLACE COUCH.
- FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.



5 CARVED LOG LOVESEAT
1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-704-02

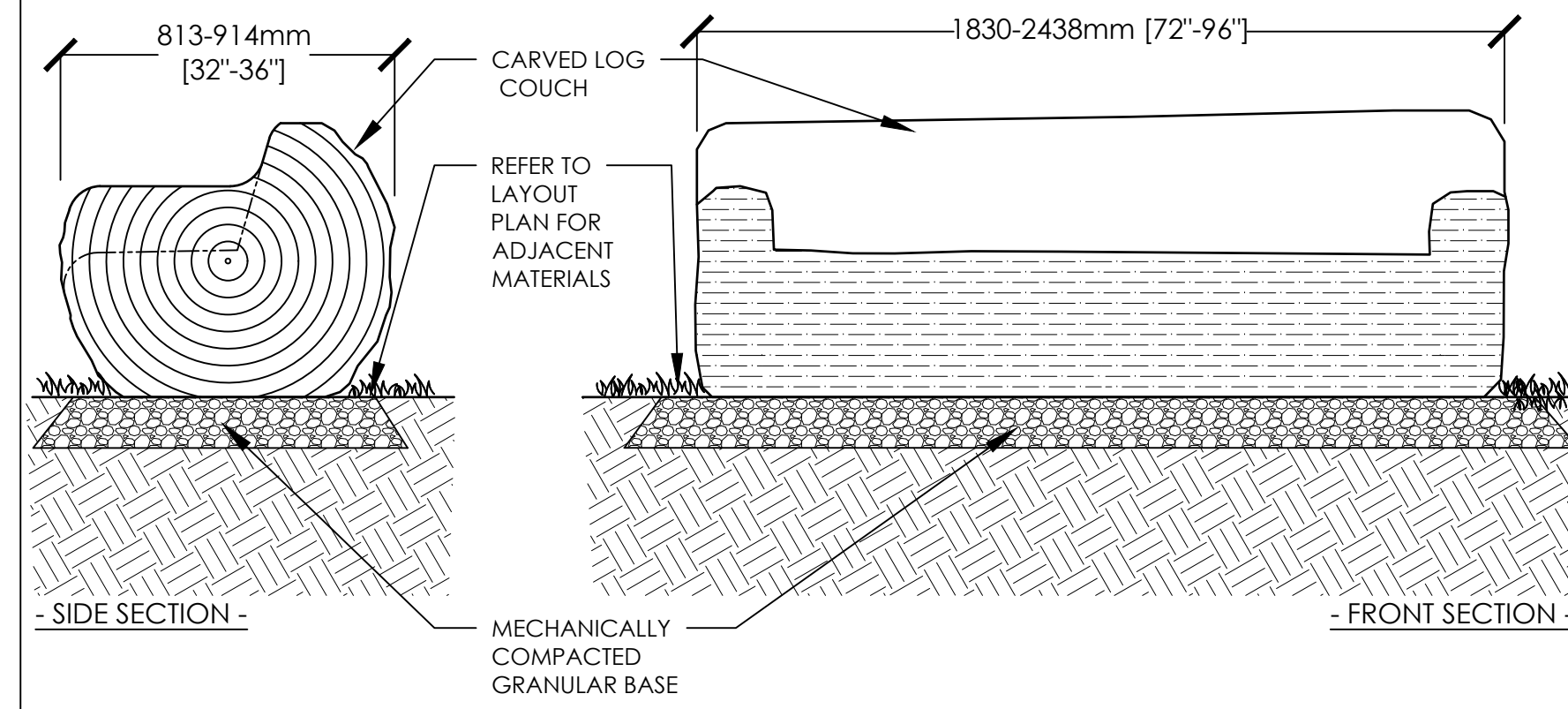
COMPONENTS

NATURE'S INSTRUMENTS CARVED HARDWOOD LOG COUCH NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- FULLY ASSEMBLED CARVED HARDWOOD LOG COUCH: x1

NOTES

- PLACEMENT OF COUCH TO ALLOW FOR CIRCULATION; IT IS RECOMMENDED THAT AT LEAST 914mm [36"] CLEAR SPACE BE ALLOCATED AROUND ALL SIDES OF THE COUCH. 1219mm [48"] CLEAR SPACE IS PREFERRED.
- GRANULAR BASE COURSE TO BE 152mm [6"] MIN. DEPTH OF CRUSHED GRAVEL (OR 19mm [3/4"] CLEAR GRAVEL) MECHANICALLY COMPACTED.
- ENSURE GRANULAR BASE IS LEVEL AND PLACE COUCH.
- FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.



6 CARVED LOG COUCH
1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-704-03

PROJECT

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DATE

20 Jul, 2020

DESIGN: DR
DRAWN: RC
REVIEWED: DR/CS
TECHNICAL REVISED: XX
REVIEWED: XX

DETAILS - COMPONENT

DTC.1

SCALE: 1:20
PRINTED ON 24735F

ISSUED FOR REVIEW	20 JUL 2020	REV. DATE	1
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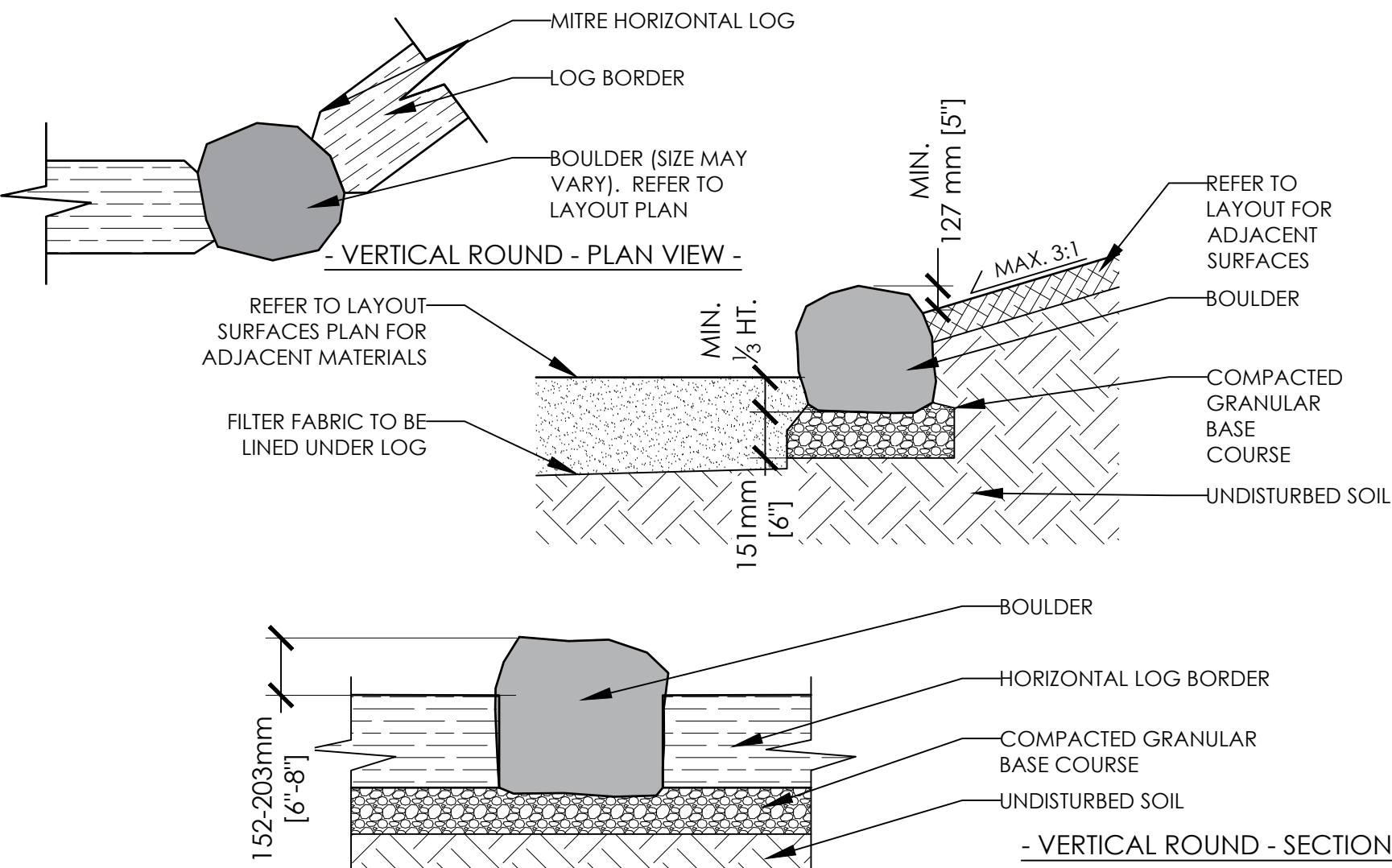
COMPONENTS

NATURE'S INSTRUMENTS LANDSCAPE BOULDER IN 305mm [12"] Ø HORIZONTAL LOG BORDER, NI PACKAGE INCLUDES:
(FOOTING MATERIALS NOT SUPPLIED)

- HARDWOOD OR SOFTWOOD LOGS. ORDER BY LINEAR FOOT.
- BOULDER(S)

NOTES

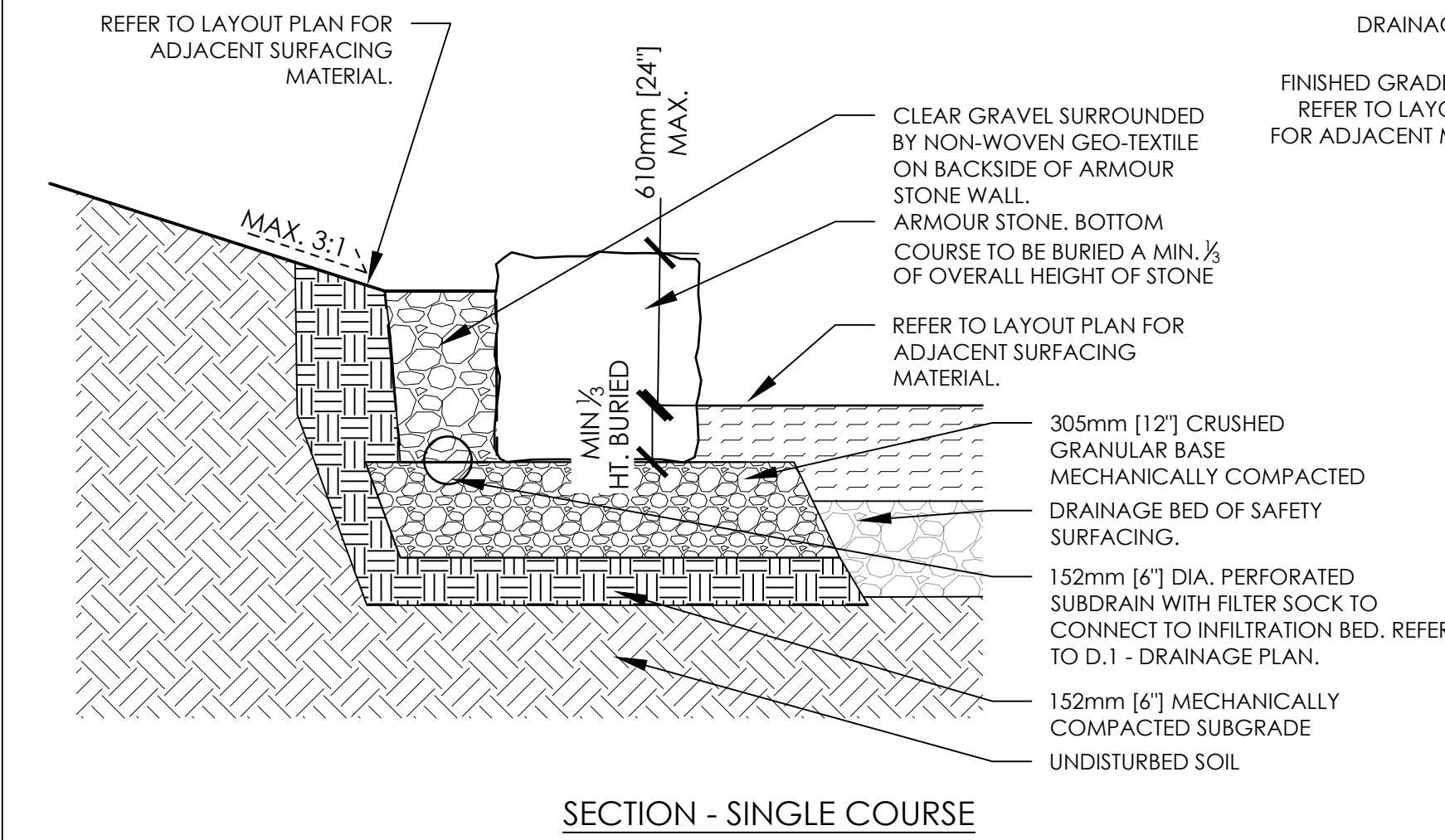
- LANDSCAPE BOULDERS WILL VARY. REFER TO LAYOUT PLAN FOR APPROXIMATE SHAPE AND SIZE.
- MITRE LOGS ONSITE AND INSTALL BORDER ACCORDING TO THE LAYOUT PLAN.
 - WHEN MITRE IS AGAINST BOULDER, MAINTAIN A TIGHT CONNECTION BETWEEN LOG AND BOULDER TO ENSURE STABILITY.
- SET INTO FINISHED GRADE:
 - LOGS & BOULDERS MUST BE PLACED SO THAT A MINIMUM OF 1/2 THE LOG'S/BOULDER'S HEIGHT IS BURIED BELOW FINISHED GRADE OF THE LOWEST SURROUNDING SURFACE.
 - IF BORDER IS USED TO RETAIN A LOOSE FILL MATERIAL, FILTER FABRIC IS TO BE INSTALLED ON THE BACKSIDE OF BORDER TO PREVENT LOOSE FILL MATERIAL TO PREVENT ACCESS TO THE BORDER BASE OR THE TERRA-FIRMA UNDER THE LOG BORDER.
 - FILTER FABRIC TO BE NILEX 4535 NON-WOVEN GEO-TEXTILE, OR APPROVED EQUAL.
 - GRANULAR BASE COURSE TO BE 152mm [6"] MIN. DEPTH OF CRUSHED GRAVEL MECHANICALLY COMPACTED.



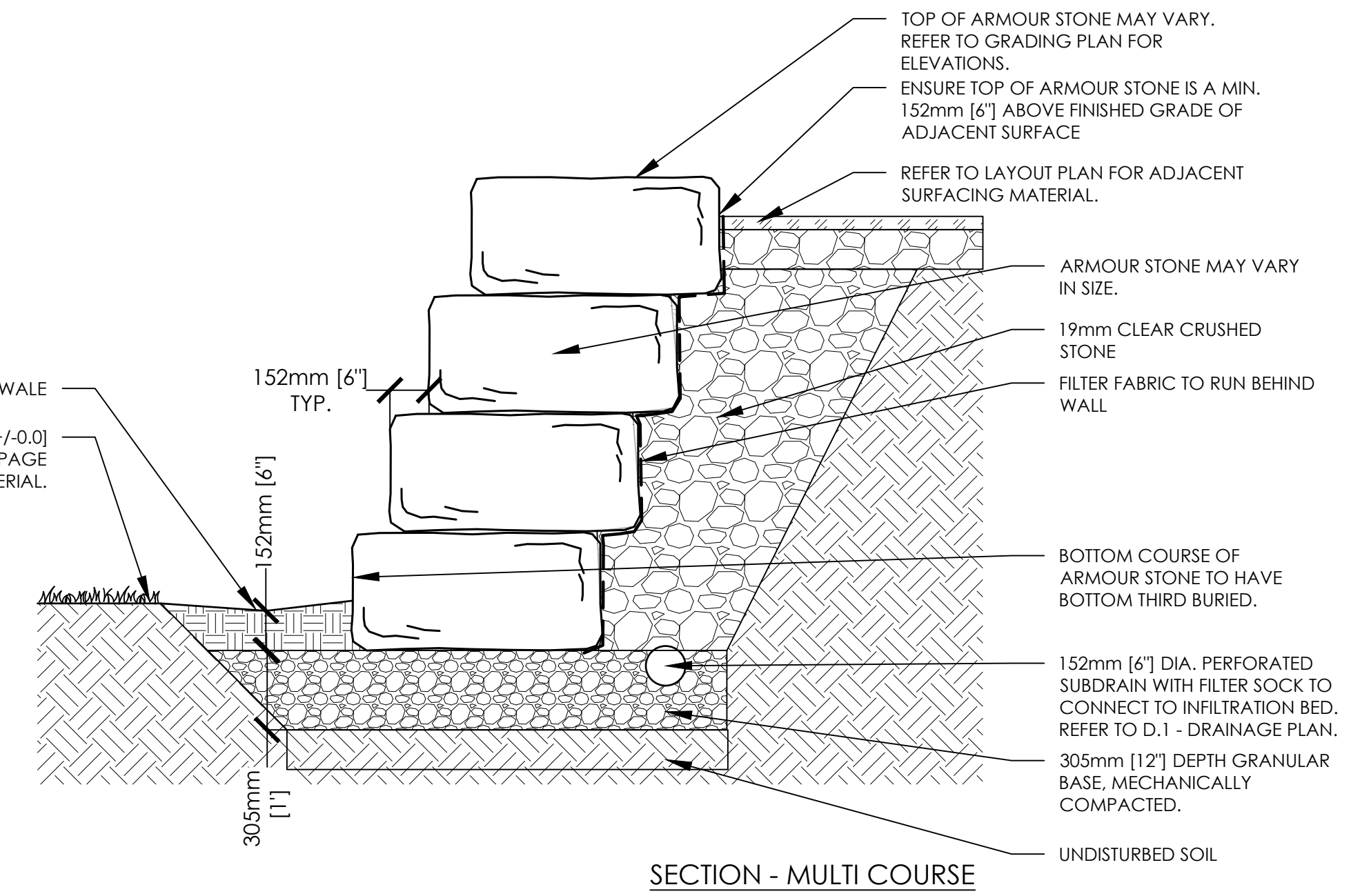
7 BOULDER IN BORDER
1:20 SCALE | NATURE'S INSTRUMENTS

NOTES

- SET INTO FINISHED GRADE:
 - ARMOUR STONE MUST BE PLACED SO THAT A MINIMUM OF 1/2 THE STONE'S HEIGHT IS BURIED BELOW FINISHED GRADE OF THE LOWEST SURROUNDING SURFACE.
 - ENSURE THE TOP OF THE ARMOUR STONE IS A MIN. 152mm [6"] AND NO MORE THAN 610mm [24"] ABOVE FINISHED GRADE OF SURROUNDING SURFACES.
- ALL STONE TO BE TIGHT FITTED WITH NO GAPS EXCEEDING 51mm [2"].
 - CUT STONE TO CREATE TIGHT GAPS IF NECESSARY.
 - GAPS TO BE FILLED WITH SCREENINGS MIXED WITH 'STABILIZER' BY ENVIROBOND 1-800-810-8218. MIX PROPORTIONS AS RECOMMENDED BY ENVIROBOND.
- CHIP ALL EXPOSED SAW CUTS TO CREATE A NATURAL EDGE.
- ENSURE ANY SHARP CORNERS ARE GRINDED TO ELIMINATE ANY SHARP EDGES.
- ARMOUR STONE TO BE INSTALLED ON 305 mm [12"] MIN. DEPTH GRANULAR BASE, MECHANICALLY COMPACTED.
- NON-WOVEN GEO-TEXTILE TO BE NILEX 4535, OR APPROVED EQUAL TO BE INSTALLED ON BACKSIDE OF WALL.
- CLEAR GRAVEL TO BE 19mm - 25mm [3/4" - 1"].
- ALL ARMOUR STONE MUST BE INSTALLED WITH THE TOP SURFACE LEVEL.
- ENSURE ALL ARMOUR STONES ARE STABLE. NO ROCKING OR MOVEMENT WILL BE ACCEPTED.

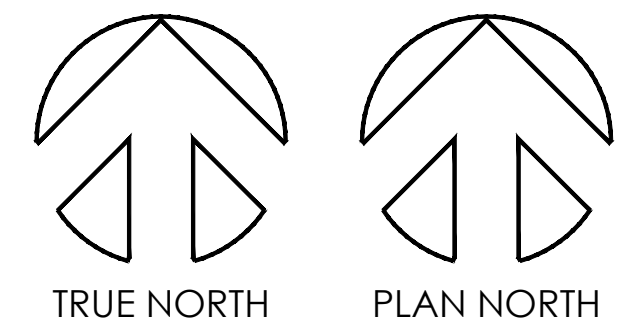


8 ARMOUR STONE RETAINING WALL
1:20 SCALE



SECTION - MULTI COURSE

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PROJECT
NAKUSP COMMUNITY
PARK - PHASE 1
200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
VOG 1R0

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ISSUED FOR REVIEW	20 JUL 2020	2
ISSUED FOR ...	REV. DATE	1
BY: [signature]	DATE: [signature]	NO.

DATE	20 Jul, 2020
DESIGN	DR
DRAWN	RC
REVIEWED	DR/CS
TECHNICAL REVISED	XX
REVIEWED	XX
SCALE	1:20
PRINTED ON	24733F

DETAILS - COMPONENT

DTC.2

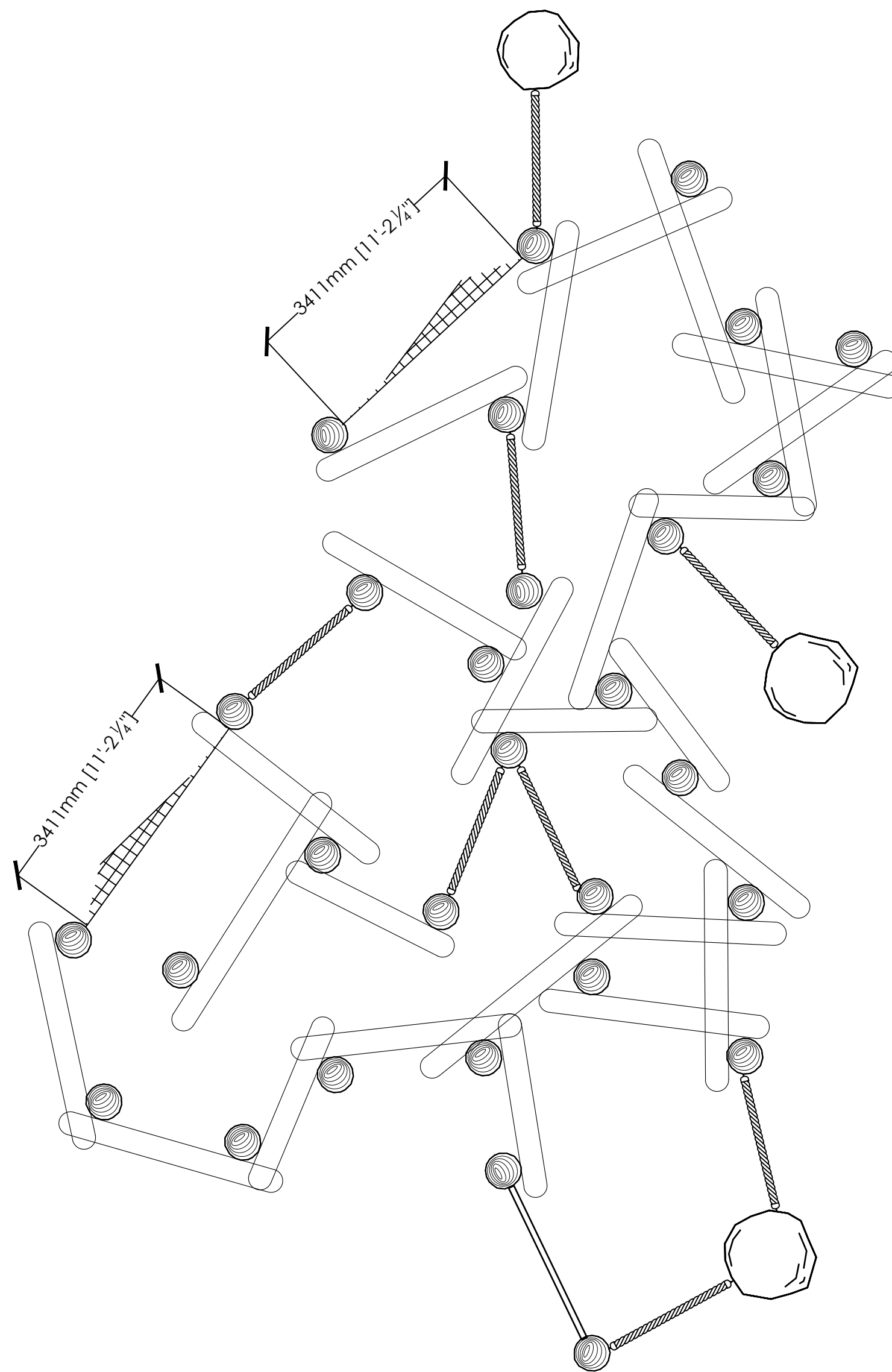
COMPONENTS

NATURE'S INSTRUMENTS CUSTOM BALANCE CLIMBER INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- 7 TON SINGLE BOULDER CLIMBER: x3
- 12" Ø WACKY POST - HARDWOOD: x29
- LOG BEAM (VARIOUS SIZES)
 - NI-PG-8002-01 - 8' IN LENGTH: x6
 - NI-PG-8002-02 - 10' IN LENGTH: x17
 - NI-PG-8002-03 - 12' IN LENGTH: x3
- NI-PG-8001 - SHIP-ROPE (VARIOUS SIZES)
 - CONTRACTOR TO CONFIRM LENGTH: x8
- PULL-UP BAR
 - CONTRACTOR TO CONFIRM LENGTH: x1
- NI-PG-8003-02 - NET CLIMBER 'B': x2

INSTALLATION NOTES

1. TRIANGULATE ALL THE WACKY POSTS AND BOULDER LOCATIONS.
 - 1.a. SEE PAGE L3 FRO TRIANGULATIONS.
2. START WITH THE FIXED SIZE COMPONENTS TO ENSURE YOU HAVE THE CORRECT SPACING REQUIRED.
 - 2.a. NETS - MUST HAVE 3411mm [11'-2 1/4"] DISTANCE BETWEEN THE POSTS.
 - 2.b. PULL UP BAR - MUST HAVE 1905mm [7'5"] DISTANCE BETWEEN THE POSTS.
3. BOULDER - DIA. MAY VARY BUT IT IS RECOMMENDED THAT THE BOULDER BE A MINIMUM OF 7 TONS AND HAVE A DIA. NO LESS THAN 914mm [36"]. THE HEIGHT MUST BE NO LESS THAN 914mm [36"] AND NO GREATER THAN 1829mm [72"] ABOVE FINISHED GRADE.
4. INSTALL REMAINING WACKY POSTS ACCORDING TO THE LAYOUT AND AS PER MANUFACTURER'S DETAILS PROVIDED.
5. ONCE CONCRETE IS CURED, BEAMS AND ROPES CAN BE INSTALLED.
 - 5.a. CONTRACTOR MAY PURCHASE ROPES AND BEAMS THROUGH NATURE'S INSTRUMENTS. CONTRACTOR WILL HAVE TO SUPPLY EXACT LENGTHS REQUIRED FOR EACH COMPONENT. CONTRACTOR MAY SUBSTITUTE ALTERNATES FOR THESE COMPONENTS BUT MUST HAVE THEM APPROVED BY BIENENSTOCK NATURAL PLAYGROUNDS.
 - 5.b. WHEN ATTACHING SHIP-ROPE, ENSURE ROPE IS 152mm [6"] TO 457mm [18"] OFF GROUND AND ENSURE PITCH FOLLOWS CSA SAFETY STANDARDS.
6. START PLACING BEAMS TO WACKY POSTS FOLLOWING CSA STANDARDS.
 - 7.1. BEAM CAN BE NO GREATER THAN 1016mm [40"] OFF OF FINISHED GRADE OF SAFETY SURFACE.
 - 7.2. IF MULTIPLE BEAMS ARE TO BE ATTACHED TO ONE WACKY POST, ENSURE BEAM IS A MIN. 305mm [12"] FROM ANOTHER BEAM ATTACHMENT.
 - 7.3. ENSURE BEAMS HAVE NO GREATER THAN A 15° PITCH.
 - 7.4. ENSURE ENDS OF BEAM EXTEND A MIN. 305mm [12"] BEYOND CONNECTION POINTS



COMPONENTS

NATURE'S INSTRUMENTS SINGLE BOULDER CLIMBER INCLUDES:

- GRANITE BOULDER: x 1
- MANUFACTURER'S SIGNAGE: x 1

GRAVEL, CONCRETE, REBAR & PROTECTIVE SAFETY SURFACING ARE NOT SUPPLIED.

NOTES

1. INSTALLED HEIGHT OF BOULDER TO BE 915mm [36"] TO 1524mm [60"] ABOVE FINISHED GRADE.
2. BOULDER MUST BE PLACED AT LEAST 1830mm [72"] AWAY FROM ADJACENT OBJECTS AND MUST HAVE A PROTECTIVE SAFETY SURFACE SUITABLE FOR A 2438mm [96"] FALL HEIGHT, REFER TO CONSULTANT'S RECOMMENDATIONS.
3. A PLAYGROUND MANUFACTURER'S SIGN IS REQUIRE. RECOMMENDED THAT CONTRACTOR GETS APPROVAL ON BOULDER FROM THE MANUFACTURER AS IT WILL FALL UNDER THE MANUFACTURE'S INSURANCE.
8. CONCRETE PAD TO BE 203 mm [8"] THICK AND MUST EXTEND AT LEAST 610 mm [24"] BEYOND ALL SIDES OF THE BOULDER.
9. ALL STEEL REINFORCEMENT MUST HAVE AT LEAST 76mm [3"] CONCRETE COVERAGE.
 - 9.a. PLACE BOULDER ON MECHANICALLY COMPACTED SOIL.
10. PLACE 1/2" DIA. REBAR EVERY 305mm [12"] AROUND BOULDER CIRCUMFERENCE AND SPACE EVENLY.
11. 1/2" DIA. REBAR TO BE DRILLED 6" INTO BOULDER AS PER LAYOUT AND TIE TOGETHER.
12. ENSURE TOP OF CONCRETE TO BE MIN. 305mm [12"] BELOW FINISHED GRADE.
13. ALLOW FOR CONCRETE TO CURE IN ACCORDANCE TO MANUFACTURE'S SPECIFICATIONS.

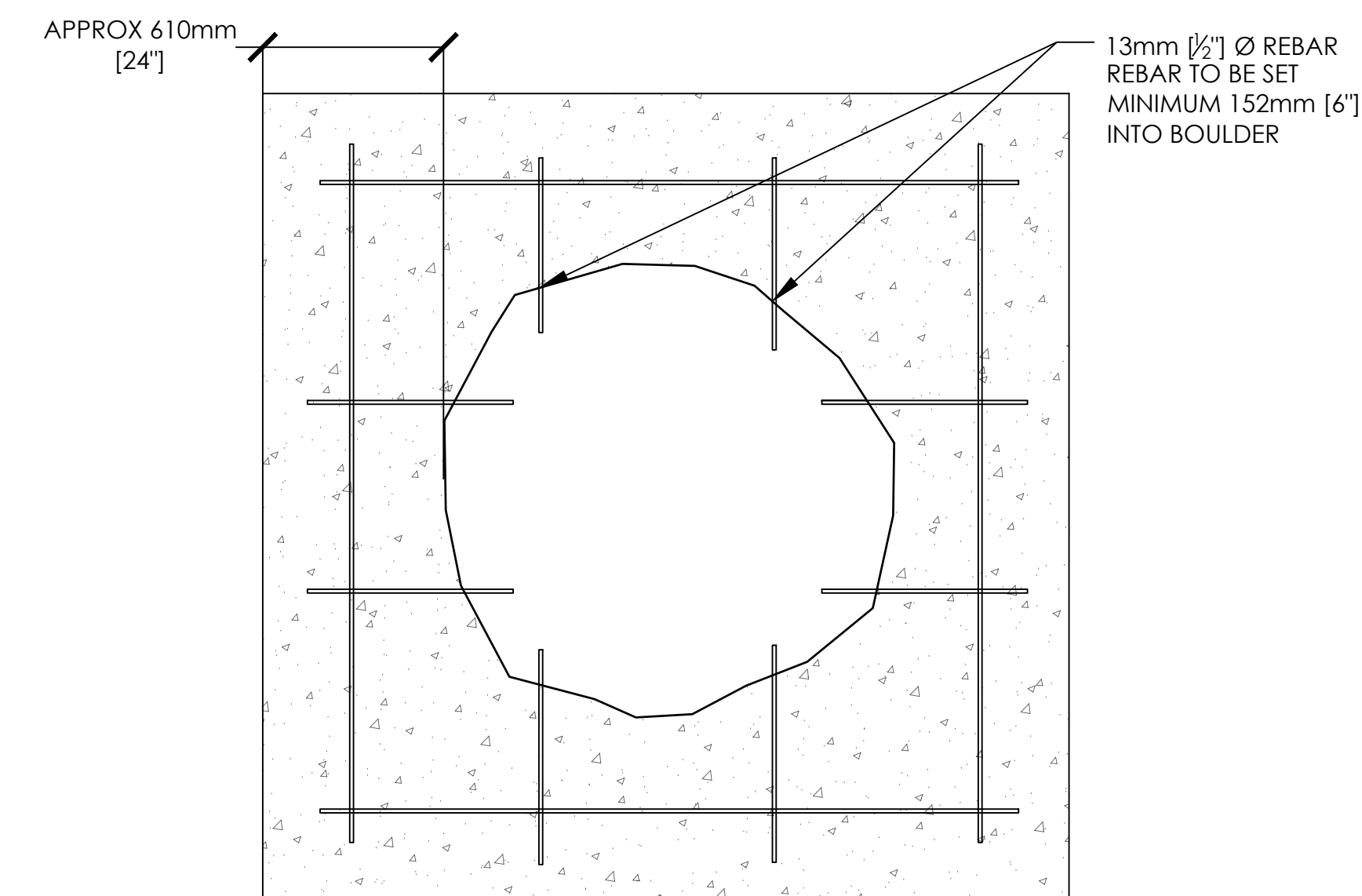
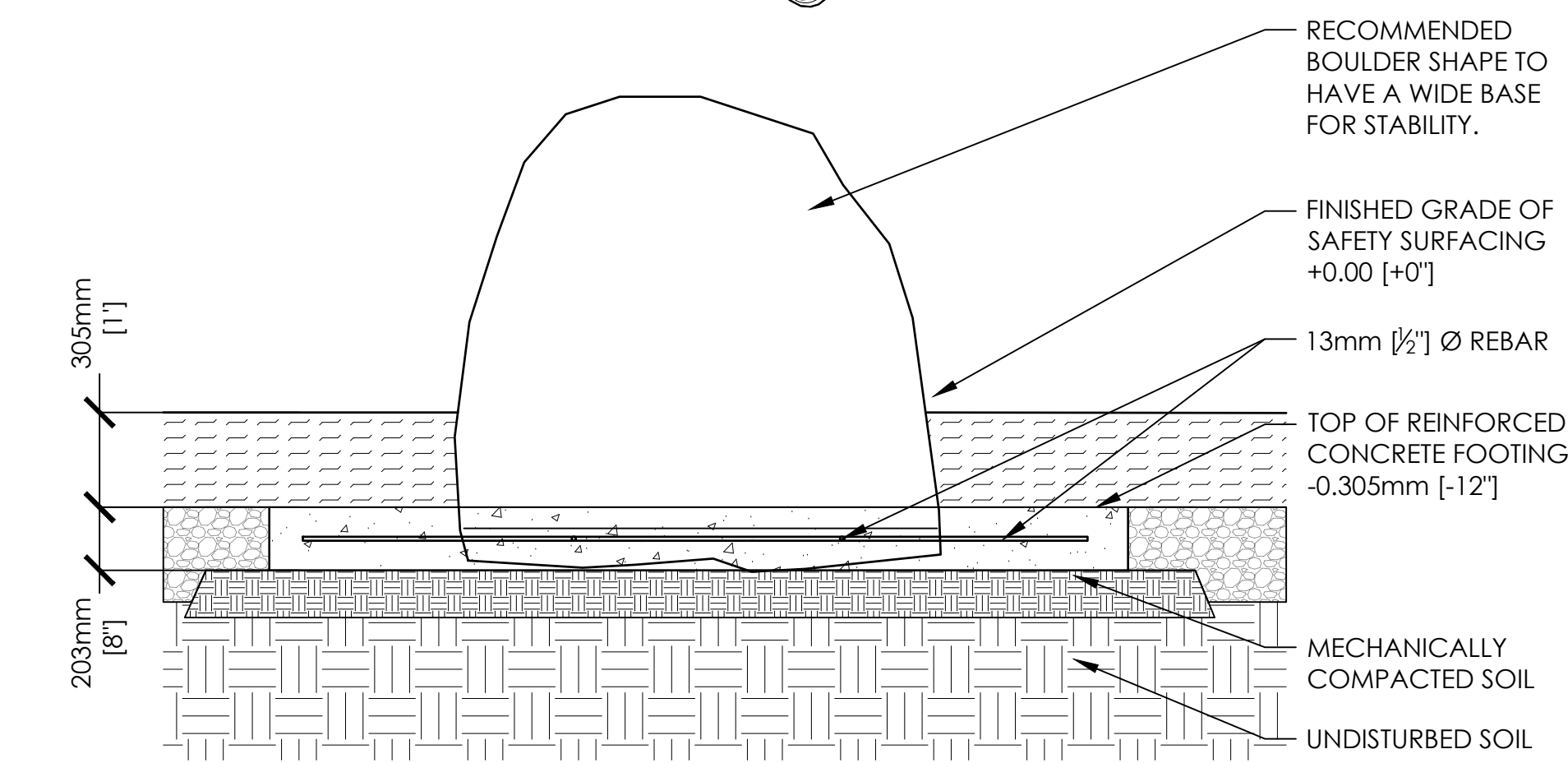
SAFETY SURFACING

14. ONCE CONCRETE HAS CURED, SAFETY SURFACING CAN THEN BE INSTALLED.
15. REFER TO LAYOUT PAGE FOR ADJACENT SURFACING MATERIAL.

INSTALLATION

4. EXCAVATE MATERIAL TO RECOMMENDED DEPTH TO ACCOUNT FOR THE 305mm [12"] SAFETY SURFACING AND 203mm [8"] CONCRETE PAD. ONCE EXCAVATION IS COMPLETE, LEVEL AND MECHANICALLY COMPACT SUBGRADE.
5. PLACE BOULDER ON MECHANICALLY COMPACTED SUBGRADE IN ACCORDANCE WITH LAYOUT PLAN PROVIDED.
7. ENSURE BOULDER PLACEMENT ALLOWS FOR INTENDED PLAY USE.

FOOTING



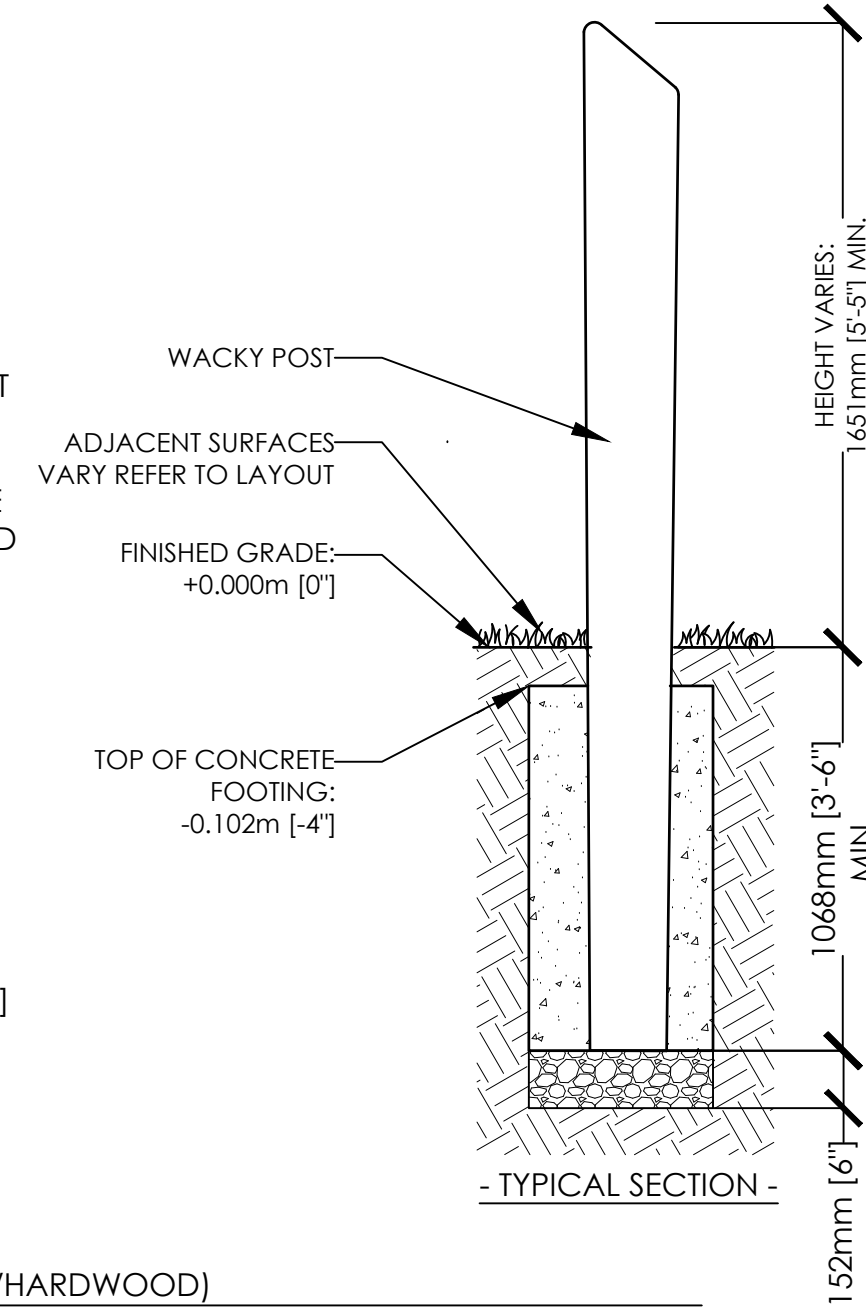
COMPONENTS

NATURE'S INSTRUMENTS WACKY POST NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- 203-305mm [8"-12"] Ø LOG (SOFTWOOD OR HARDWOOD) WITH ANGLED TOP: x1
- ANCHORSEAL WAX
- FLEXTRA SILICONE (IF NECESSARY)

NOTES

1. INTENDED USE: WACKY POST IS TO BE USED WITH FEET PLANTED FIRMLY ON THE GROUND.
2. WACKY POSTS TO BE INSTALLED AS A SET OF 4 POSTS IN SQUARE PATTERN MAX 1219mm [48"] O.C. SPACING.
 - 2.a. ADDITIONAL POSTS AND TREES CAN BE SPACED FROM 1219mm - 1830mm [48"-72"] O.C.
 - 2.b. ENSURE ADDITIONAL POST ARE INSTALLED IN A RANDOM PATTERN OF VARYING HEIGHTS AND ANGLES.
3. WACKY POSTS MUST BE PLACED AT LEAST 1219mm [48"] AWAY FROM ADJACENT OBSTACLES, OTHER COMPONENTS AND PATHWAYS.
4. FOOTING HOLE TO BE AT LEAST 1219mm [48"] BELOW FINISHED GRADE, AND MUST EXTEND TO THE FROST LINE FOR YOUR REGION.
5. THE DIAMETER OF THE FOOTING HOLE MUST BE AT LEAST 203mm [8"] LARGER THAN THE DIAMETER OF THE WACKY POST.
6. PLACE WACKY POST IN THE CENTRE OF THE FOOTING HOLE AND BRACE AT THE DESIRED HEIGHT.
 - 6.a. INSTALLED HEIGHT OF WACKY POST VARIES:
 - POSTS TO BE NO SHORTER THAN 1524mm [60"] AND NO TALLER THAN 1830mm [72"] ABOVE FINISHED SURFACE.
7. FILL BOTTOM OF HOLE WITH A 152mm [6"] LIFT OF CLEAR GRAVEL TO HELP WITH PLACING POST.
8. FILL FOOTING HOLE WITH CONCRETE SO THAT WACKY POST HAS AT LEAST 76mm [3"] OF CONCRETE ON.
9. FOOTING TO BE NON-VISIBLE; TOP OF CONCRETE TO REMAIN 102mm [4"] BELOW FINISHED SURFACE.
10. FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION UNLESS OTHERWISE SPECIFIED.



WACKY POST (SOFTWOOD/HARDWOOD)

1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-601-XX (MULTI PRODUCT DETAIL)

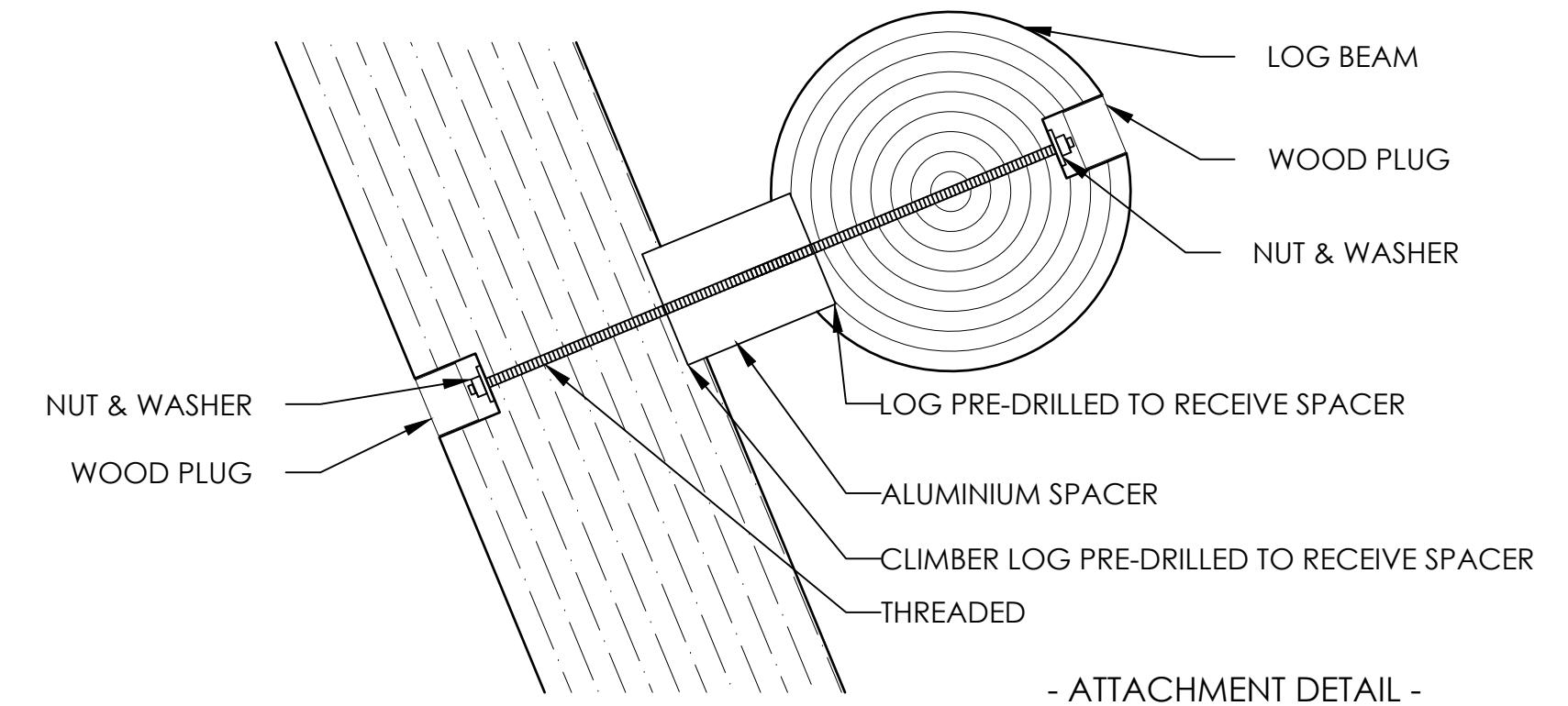
COMPONENTS

NATURE'S INSTRUMENTS LOG BEAM (VARIOUS SIZES) INCLUDES:

- BEAM (LENGTH AS SPECIFIED IN LAYOUT): x 1
- ATTACHMENT HARDWARE:
 - D-SHACKLE, EYEBOLT, NUTS AND WASHERS

BEAM FASTENING

1. ALL BEAM ATTACHMENTS ARE TO FOLLOW CSA SAFETY STANDARDS.
 - 1.a. BEAM CAN BE NO GREATER THAN 1016mm [40"] OFF OF GROUND.
 - 1.b. ENSURE BEAM IS A MIN. 305mm [12"] AWAY FROM ANOTHER BEAM ATTACHMENT.
 - 1.c. ENSURE BEAMS HAVE NO GREATER THAN A 15° PITCH.
 - 1.d. ENSURE ENDS OF BEAM EXTENT A MIN. 305mm [12"] BEYOND CONNECTION POINTS.
2. ONLY ATTACH LOG BEAM IN LOCATIONS WHERE POST IS AT LEAST 203mm [8"] DIAMETER.
3. SECURE LOG BEAM IN POSITION AND MARK OUT ATTACHMENT LOCATIONS ON LOG BEAM AND CLIMBER LOG.
4. PRE-DRILL HOLES FOR ALUMINIUM SPACERS IN LOG BEAM.
5. INSERT ALUMINIUM SPACERS INTO LOG BEAM AND MARK LOCATION FOR ATTACHMENT LOCATION ON CLIMBER LOG.
6. PRE-DRILL HOLES FOR ALUMINIUM SPACERS IN CLIMBER LOGS AT THE MARKED LOCATIONS.
7. INSERT THE ALUMINIUM SLEEVES INTO THE PRE-DRILLED HOLES IN THE CLIMBER LOG.
8. DRILL HOLE THROUGH LOG BEAM AND CLIMBER LOG.
9. INSERT THREADED ROD AND FASTENING HARDWARE
10. COUNTER SINK FASTENING LOCATIONS MIN. 102mm [4"]
11. CUT PLUGS AT REQUIRED DIAMETRE FOR COUNTERSUNK LOCATIONS.



LOG BEAM

1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-8002-01

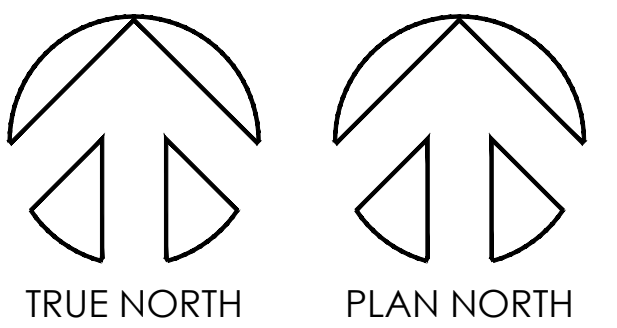
SINGLE BOULDER CLIMBER

1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-902-01

BALANCE CLIMBER

1:20 SCALE | NATURE'S INSTRUMENTS | CUSTOM

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NAKUSP COMMUNITY

PARK - PHASE 1

200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
VOG 1R0

PROJECT

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NO.	REV. DATE	ISSUED FOR
11		
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DATE

20 Jul, 2020

DESIGN	DRAWN	REVIEWED
DR	RC	DR/CS
TECHNICAL REVISED	REVIEWED	
XX	XX	XX

SCALE
1:20
PRINTED ON 24735"

DETAILS - COMPONENT

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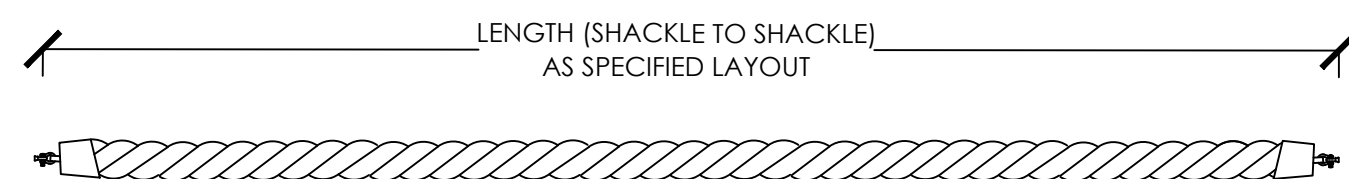
COMPONENTS

NATURE'S INSTRUMENTS SHIP-ROPE (VARIOUS SIZES) INCLUDES:

- SHIP ROPE (CONTRACTOR TO SPECIFY DESIRED LENGTH): x 1
- ATTACHMENT HARDWARE:
 - D-SHACKLE, EYEBOLT, NUTS AND WASHERS
 - CONCRETE ANCHORING EPOXY (IF REQUIRED)

SHIP-ROPE FASTENING

1. LOCATE SHIP-ROPE ATTACHMENTS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:
 - 1.a. ONLY ATTACH IN LOCATIONS WHERE POST IS AT LEAST 203mm [8"] Ø.
 - 1.b. SHIP-ROPE ATTACHMENTS TO BE AT 90° TO THE ANGLE OF THE POST.
 - 1.c. THE SHIP-ROPE ATTACHMENTS MUST BE LOCATED ON THE UNDERSIDE OF ANGLED POSTS SO THAT PINCH POINTS ARE AVOIDED WHEN THE ROPE SWINGS DOWNWARDS.
2. HOLD SHIP ROPES IN POSITION AND MARK OUT ATTACHMENT LOCATIONS ON CLIMBERS. ENSURE SHIP ROPE ARE NOT TAUT - ALLOW A SLIGHT SWINGING MOTION.
3. IF SHIP-ROPE IS ATTACHED TO A POST, DRILL A 79mm [3 1/8"] Ø HOLE FOR 76mm [3"] ALUMINUM SLEEVE.
 - 3.a. ENSURE DEPTH OF HOLE IS 38mm [1 1/2"].
4. USING THE CENTRE MARK FROM THE FORSTNER BIT, DRILL 16mm [5/8"] Ø HOLE ALL THE WAY THROUGH THE LOG.
 - 4.a. ENSURE THE 16mm [5/8"] HOLE COMES OUT ON THE BACKSIDE OF THE LOG.
5. USE A 16mm [5/8"] DOWEL TO PLUG HOLE ON BACKSIDE OF LOG.
6. DRILL A 54mm [2 1/8"] Ø HOLE IN THE CENTRE OF THE 16mm [5/8"] DOWEL.
 - 6.a. ENSURE THIS HOLE IS DEEP ENOUGH TO ACCEPT NUT, WASHER AND 25mm [1"] PLUG.
7. INSERT THE ALUMINUM SLEEVES INTO THE PRE-DRILLED HOLES.
8. SLIDE HEAT SHRINK OVER THE END OF THE SHIP-ROPE.
9. PRE-ATTACH EYE-BOLT TO SHIP ROPE THEN INSERT THROUGH EACH SLEEVE AND PRE-DRILLED HOLE IN THE POST.
10. THREAD A NUT & WASHER ONTO THE END OF EACH EYEBOLT.
11. FASTEN SHIP-ROPE TO THE INSTALLED EYE-BOLTS.
12. HEAT SHRINK WRAP SEAM BETWEEN ALUMINUM SLEEVE AND SHIP-ROPE.



SHIP-ROPE: VARIOUS SIZES

1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-8001-XX (MULTI-PRODUCT DETAIL)

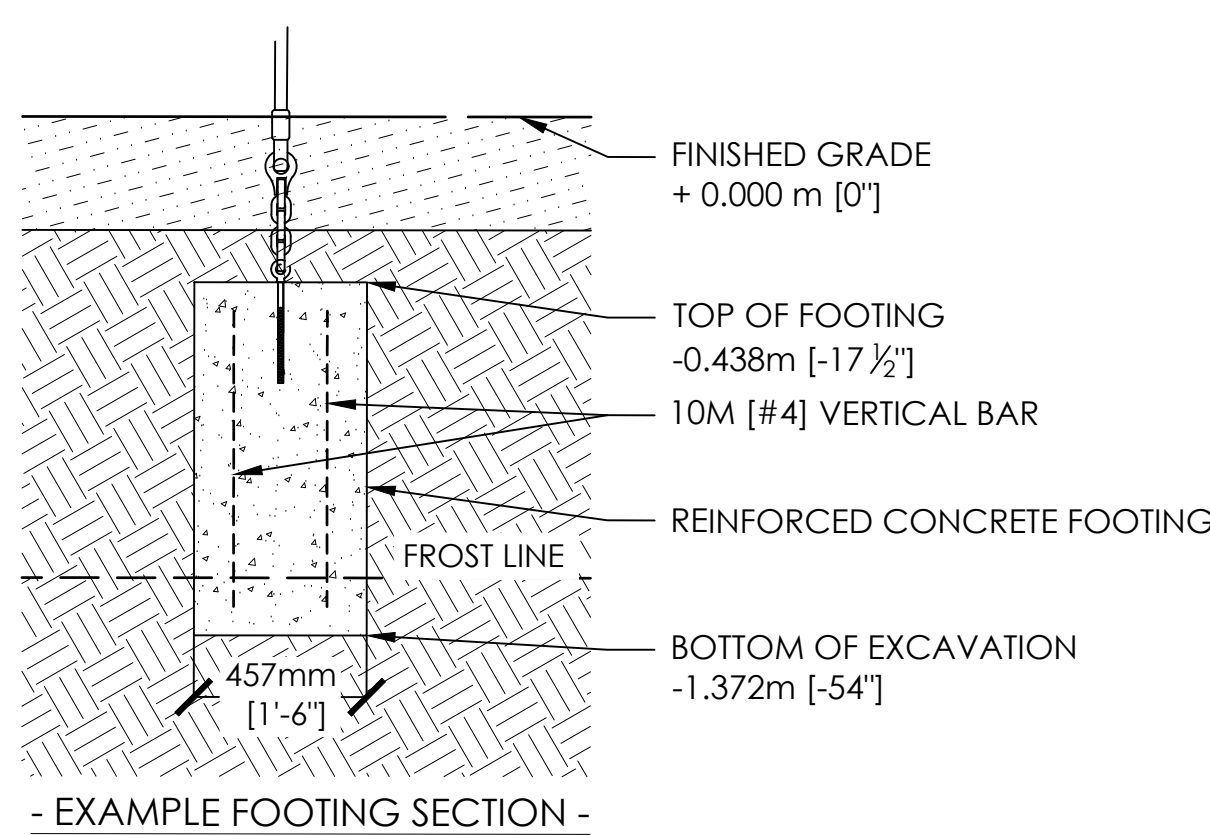
COMPONENTS

NATURE'S INSTRUMENTS NI-PG-8003 CLIMBING NET GAME. NI PACKAGE INCLUDES: (FOOTING MATERIALS NOT SUPPLIED)

- STEEL-CORE NET CLIMBER WITH PRE-ATTACHED D-SHACKLES: x 1
 - INCLUDES 4-8 PIECES OF HEAT SHRINK WRAP AND 4-8 TURNBUCKLES
 - EACH ATTACHMENT POINT WILL BE LABELLED
- 13mm [1/2"] x 203mm [8"] GALVANIZED EYE-BOLT: x 4
- REDHEAD A7 ACRYLIC EPOXY

FOOTING NOTES

1. DEPTH OF CONCRETE FOOTING MUST EXTEND TO THE FROST LINE FOR YOUR REGION; 914-1219mm [36"-48"] BELOW FINISHED GRADE.
2. CONCRETE TO BE 32 MPa WITH A MAXIMUM SLUMP OF 76mm [3"].
3. CONCRETE TO BE REINFORCED WITH 2 @ 10M VERT. BARS.
4. ALL STEEL REINFORCEMENT MUST BE PLACED AT LEAST 51mm [2"] FROM SOIL AND 76mm FROM FORMS.



NET CLIMBER

1:20 SCALE | NATURE'S INSTRUMENTS | PN: NI-PG-8003

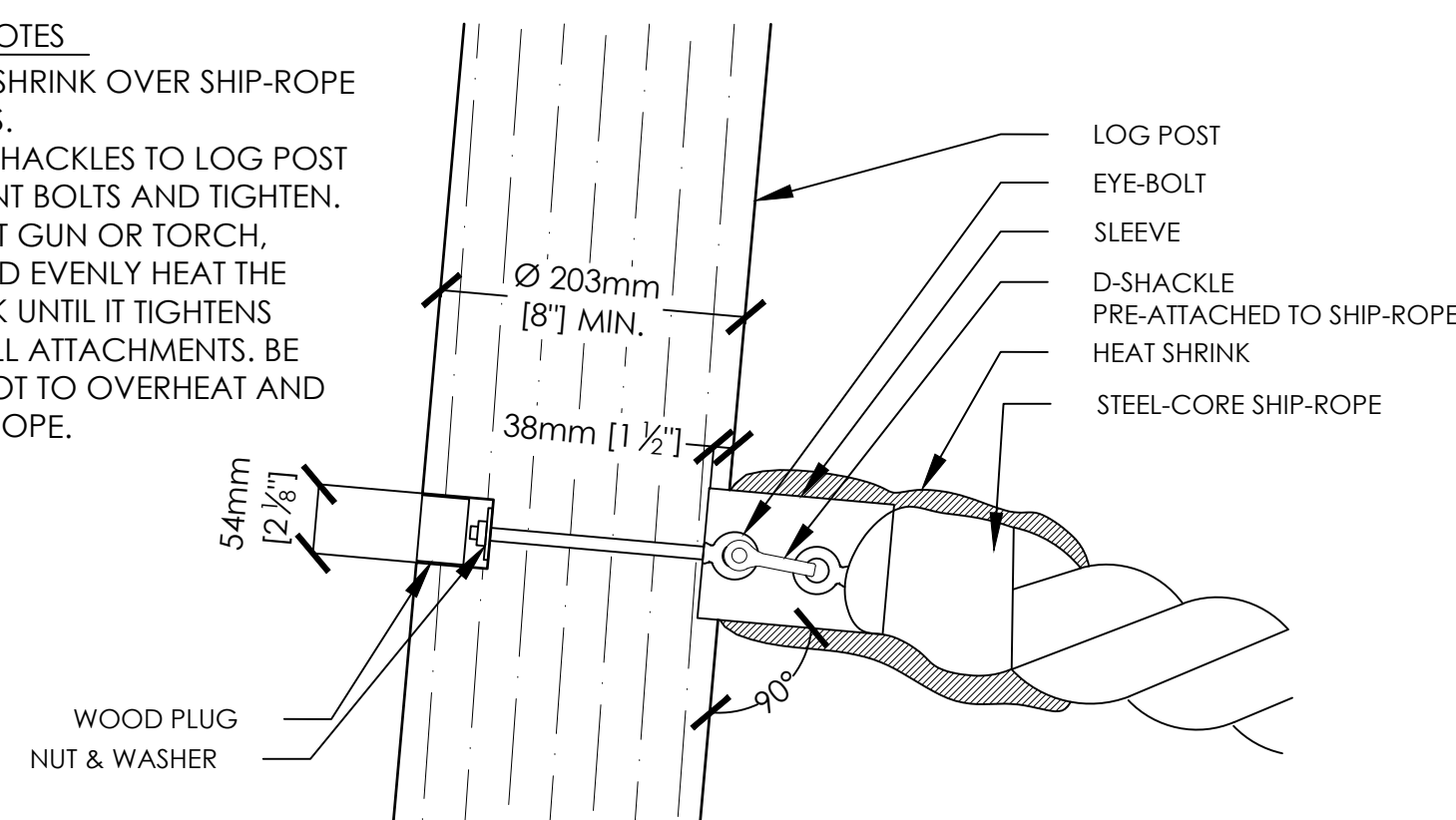
10 BALANCE CLIMBER

1:20 SCALE | NATURE'S INSTRUMENTS | CUSTOM

LOG CONNECTION

ATTACHMENT NOTES

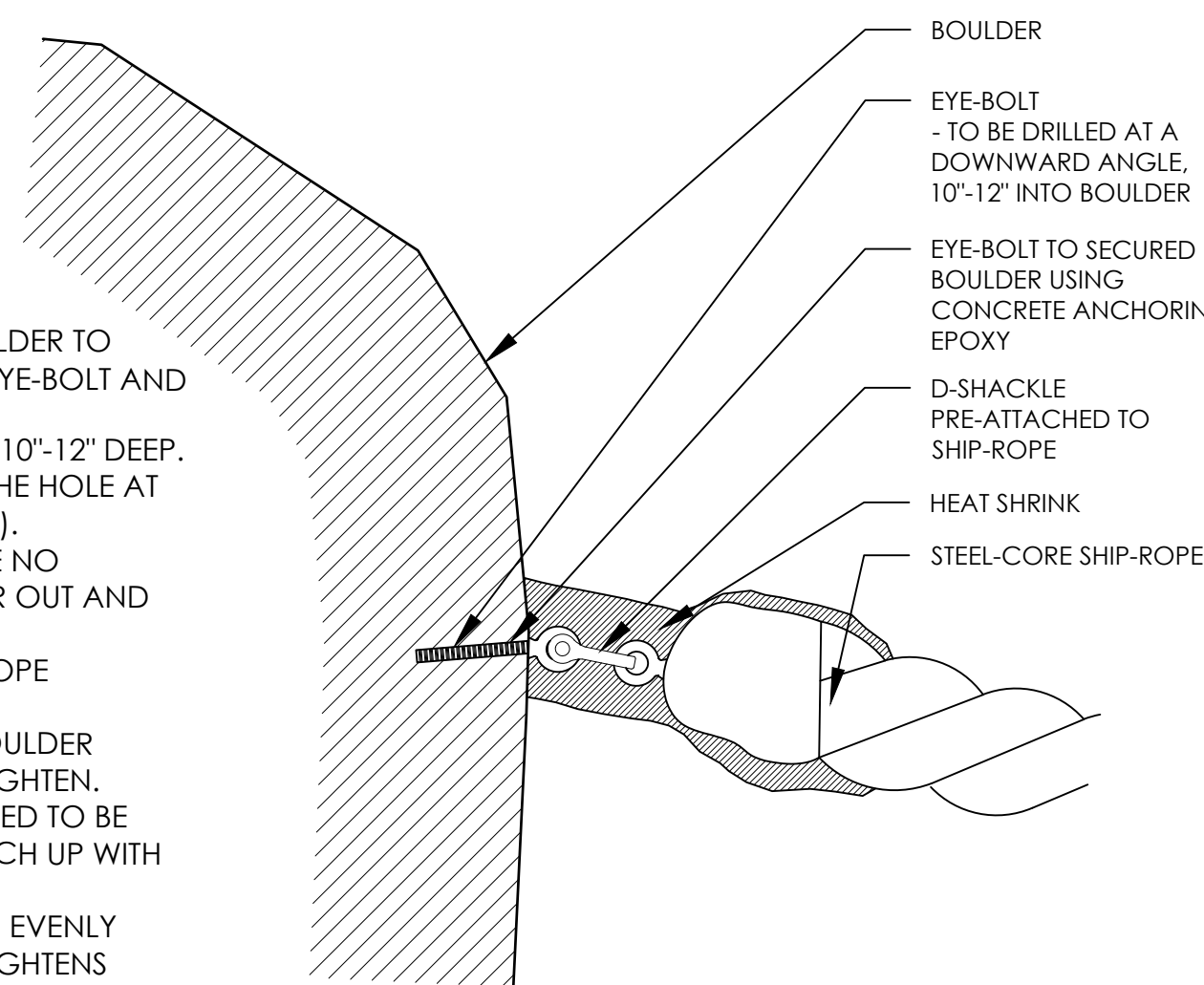
1. SLIDE HEAT SHRINK OVER SHIP-ROPE D-SHACKLES.
2. ATTACH D-SHACKLES TO LOG POST ATTACHMENT BOLTS AND TIGHTEN.
3. WITH A HEAT GUN OR TORCH, SLOWLY AND EVENLY HEAT THE HEAT SHRINK UNTIL IT TIGHTENS AROUND ALL ATTACHMENTS. BE CAREFUL NOT TO OVERHEAT AND BURN SHIP-ROPE.



BOULDER CONNECTION

ATTACHMENT NOTES

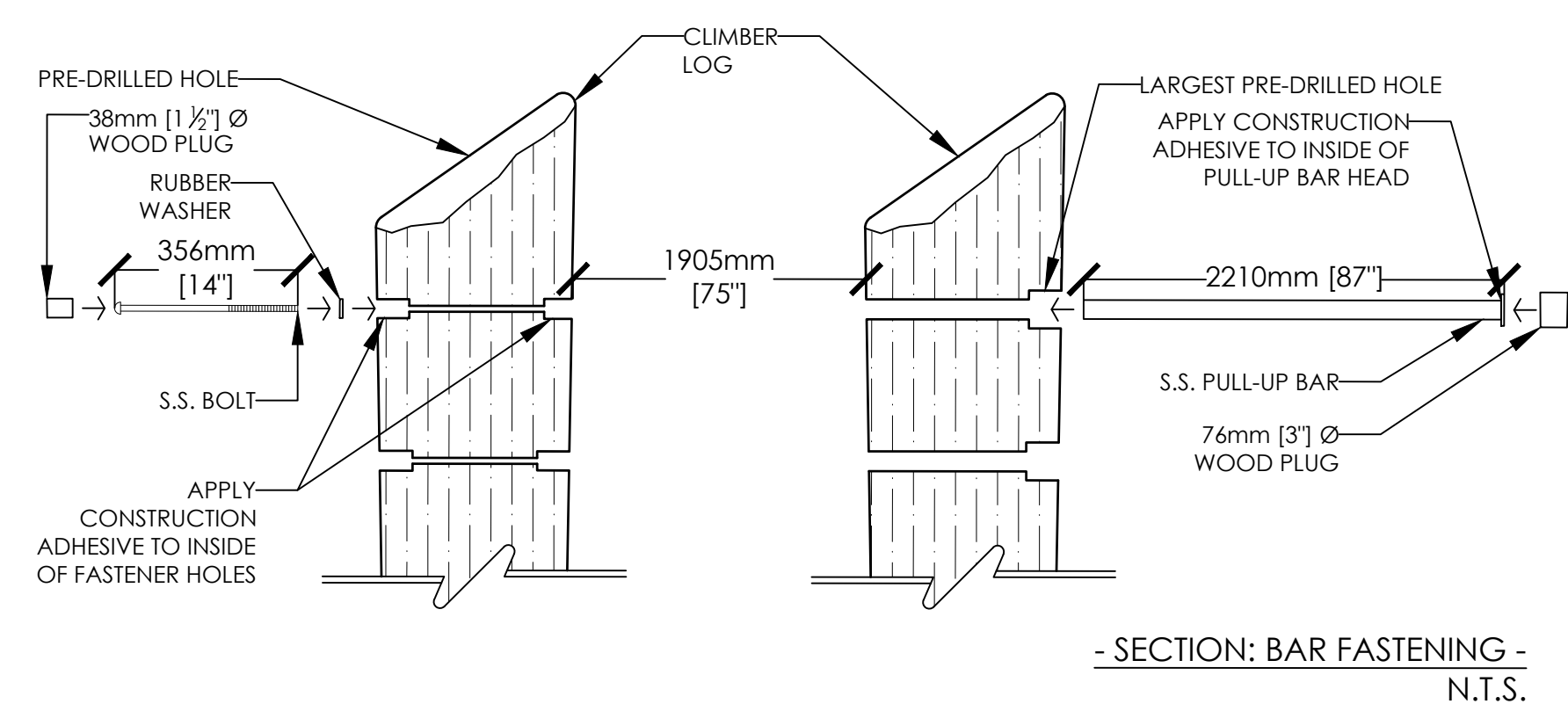
1. PRE-DRILL 3/4" Ø HOLE INTO BOULDER TO ALLOW FOR A 1/2" Ø THREADED EYE-BOLT AND EPOXY.
 - 1.1. ENSURE THIS HOLE IS A MIN. 10"-12" DEEP.
 - 1.2. RECOMMENDED TO DRILL THE HOLE AT A DOWNWARD ANGLE (10°).
 - 1.3. BLOW OUT HOLE TO ENSURE NO CONTAMINATION WILL TEAR OUT AND ENSURE GOOD ADHESION.
2. SLIDE HEAT SHRINK OVER SHIP-ROPE D-SHACKLES.
 - 2.1. ATTACH D-SHACKLES TO BOULDER ATTACHMENT BOLTS AND TIGHTEN.
 - 2.2. HEAT SHRINK WRAP MAY NEED TO BE LAYERED IN ORDER TO MATCH UP WITH THE WIDTH OF SHIP-ROPE.
3. WITH A HEAT GUN, SLOWLY AND EVENLY HEAT THE HEAT SHRINK UNTIL IT TIGHTENS AROUND ALL ATTACHMENTS.



- ATTACHMENT DETAIL: NET TO FOOTING - N.T.S.

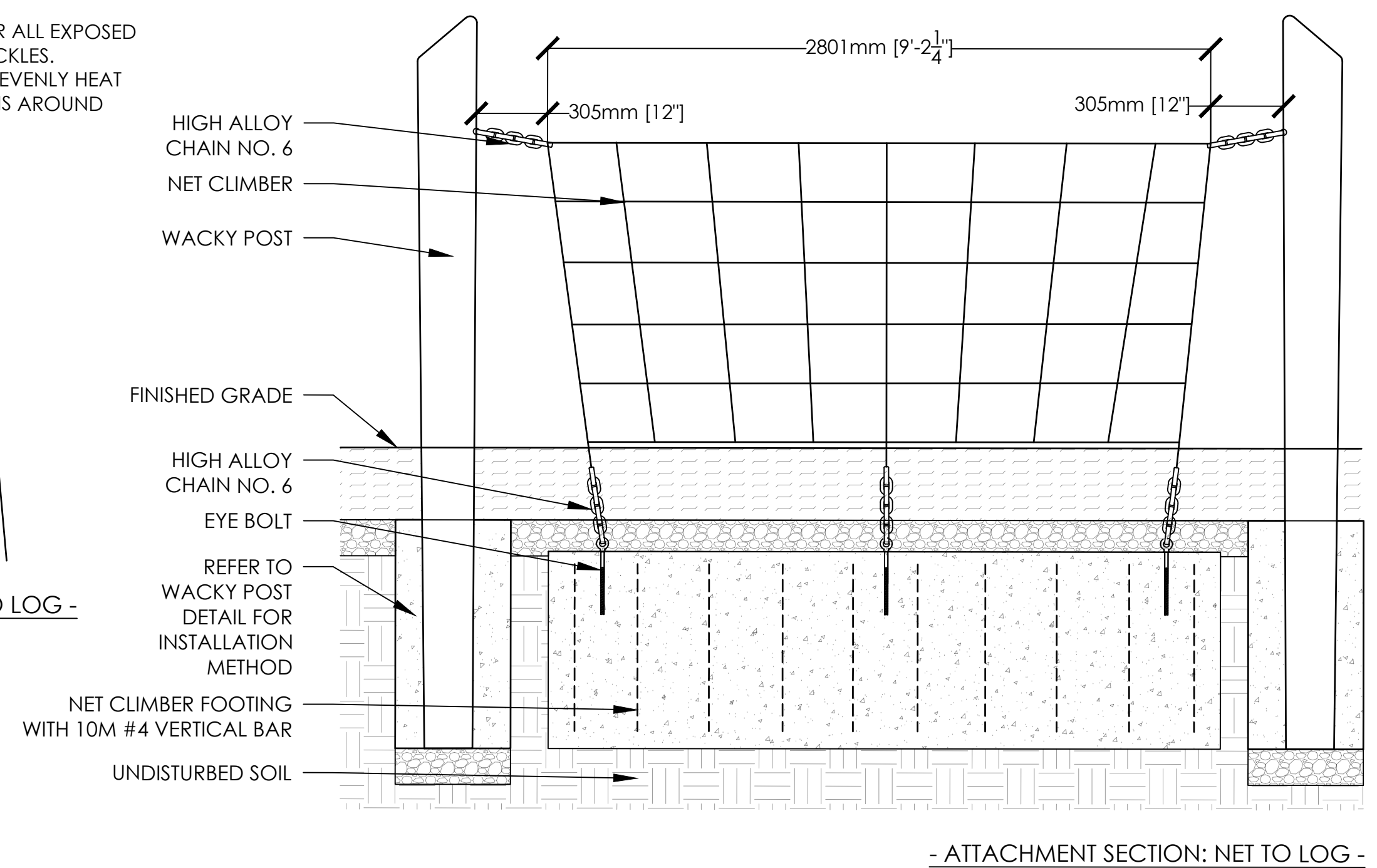
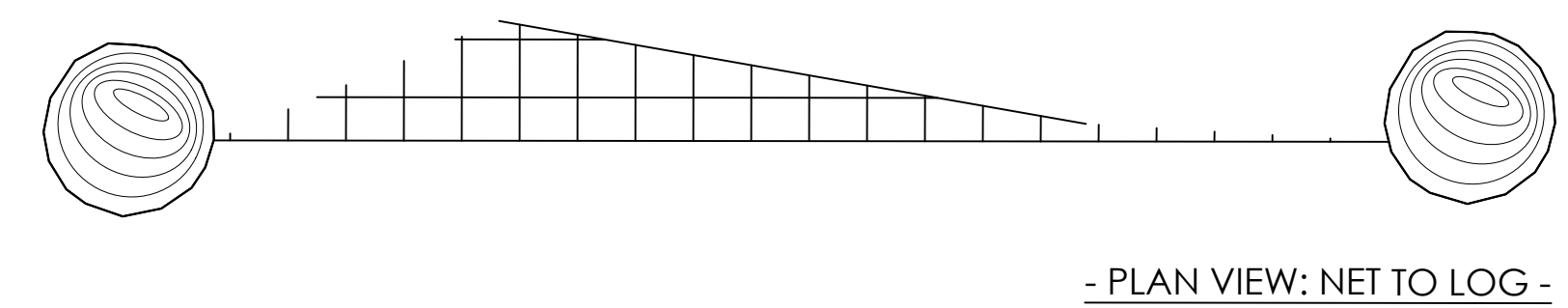
ATTACHMENT NOTES

1. BARS CAN BE INSTALLED AT 1219mm [48"] OR 1524mm [60"] ABOVE FINISHED SURFACE. CHOOSE THE HEIGHT MOST SUITABLE TO THE USER AGE GROUP.
2. POSITION BARS IN ACCORDANCE WITH THE LAYOUT PLAN.
3. A PROTECTIVE SAFETY ZONE MUST EXTEND AT LEAST 1829mm [72"] AROUND ALL SIDES OF THE PULL-UP BARS.
 - 3.a. INSTALL A PROTECTIVE SAFETY SURFACING SUITABLE FOR A FALL HEIGHT OF 2000mm [79"] WITHIN THE ENTIRE PROTECTIVE SAFETY ZONE.
4. APPLY CONSTRUCTION ADHESIVE TO THE INSIDE OF THE BAR HEAD.
5. IDENTIFY THE CLIMBER LOG WITH THE LARGEST PRE-DRILLED HOLES. DO NOT APPLY CONSTRUCTION ADHESIVE TO THE HOLES IN THIS CLIMBER LOG. APPLY CONSTRUCTION ADHESIVE TO THE PRE-DRILLED FASTENER HOLES IN THE OTHER CLIMBER LOG.
 - 5.a. DO NOT DO THIS PROCESS IN THE RAIN, GLUE MUST BE KEPT DRY WHILE CURING.
6. INSERT THE BAR THROUGH THE LARGEST PRE-DRILLED HOLE IN THE CLIMBER LOG ALL THE WAY INTO THE COUNTERSUNK HOLE IN THE OTHER CLIMBER LOG.
 - 6.a. THE BAR HEAD MUST MAKE CONTACT WITH THE CLIMBER LOG.
7. ENSURE BAR IS HORIZONTAL.
8. INSERT THE SUPPLIED WASHERS AND BOLTS IN THE PRE-DRILLED FASTENER HOLE AND THREAD THE BOLTS INTO THE ENDS OF THE BAR.
9. TIGHTEN THE BAR BOLTS.
10. APPLY CONSTRUCTION ADHESIVE TO THE SIDES OF THE BOLT-HOLES AND THE UNUSED BAR HOLES AND INSERT SUPPLIED WOOD PLUGS. ENSURE THE PLUGS ARE FLUSH WITH THE SURFACE OF THE POST. WIPE AWAY ANY EXCESS GLUE.
11. FOLLOW ADJACENT SURFACING INSTALLATION DETAILS. RESTORE ADJACENT SURFACING TO PRE-CONSTRUCTION CONDITION IF SPECIFIED TO REMAIN UNDISTURBED.



PULL UP BAR

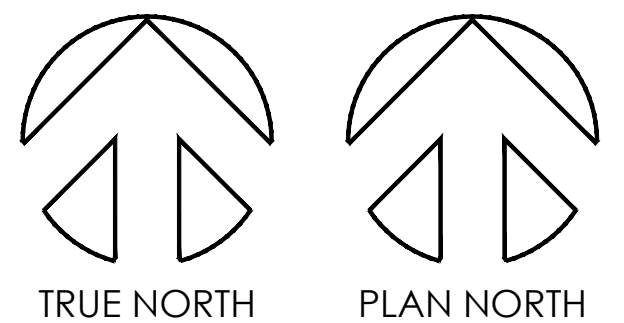
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- ATTACHMENT SECTION: NET TO LOG -

bienstock
natural playgrounds

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PROJECT
NAKUSP COMMUNITY

PARK - PHASE 1

200 8 AVE. NW, NAKUSP, BRITISH COLUMBIA
VOG 1R0

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ISSUED FOR REVIEW 20 JUL 2020
ISSUED FOR ... REV. DATE
REVISION DD MM YY

DATE

20 Jul, 2020

DESIGN DRAWN REVIEWED
DR RC DR/CS
TECHNICAL REVISED REVIEWED
XX XX XX

SCALE
1:20
PRINTED ON 24735F

DETAILS - COMPONENT

DTC.4