

PROJECT LOCATION PLAN

CLIENT



PROJECT

NORTH HEAD TRAIL RECAPITALIZATION

PRIME CONSULTANT



100 LEMARCHANT ROAD
ST. JOHN'S, NL
CANADA A1C 2H2

TEL (709) 738-2500
www.tractconsulting.com

STRUCTURAL



75 TIFFANY COURT
ST. JOHN'S, NL
CANADA A1A 0L1

(709) 579-4255
jewerbailey.com

DRAWING LIST

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- L101 – OVERALL PLAN
- L102 – BOARDWALK AT CABOT TOWER EXISTING CONDITIONS AND DEMOLITION
- L103 – BOARDWALK AT CABOT TOWER PLAN AND DETAILS
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STRUCTURAL

- S100 – GENERAL STRUCTURAL NOTES
- S101 – NH14 EXISTING CONDITIONS AND DEMOLITION
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REVISIONS

NO.	BY	DESCRIPTION	DATE
1	CG	ISSUED FOR REVIEW	06/19/2017
2	CG	ISSUED FOR 99% REVIEW	10/06/2017
3	CG	ISSUED FOR 100% REVIEW	10/18/2017
4	CG	ISSUED FOR TENDER	10/27/2017

GENERAL NOTES

1. DO NOT RELY UPON INFORMATION SHOWN ON THIS DRAWING FOR CONSTRUCTION UNLESS IT STATES BELOW THE SHEET HAS BEEN SPECIFICALLY ISSUED FOR THAT PURPOSE AND THE SHEET HAS BEEN STAMPED AND SIGNED.
2. SURVEY DATA, TAKEN FROM EDWARDS AND ASSOCIATES, AUGUST 7, 2017.
3. DO NOT SCALE FROM THIS DRAWING.
4. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED
5. ALL ELEVATIONS AND DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK. LOCATIONS AND LAYOUT OF STRUCTURES MAY VARY TO SUIT SITE CONDITIONS WITH APPROVAL.
6. CONTRACTOR TO CONFIRM LOCATES WITH OWNER'S REPRESENTATIVE.
7. STAKE AND LAYOUT WORK TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE AT NO COST TO THE CONTRACT.
8. PROVIDE PROTECTIONS FOR ALL EXISTING STRUCTURES AND SURFACES WHICH ARE TO REMAIN AS PART OF THE FINISHED WORK TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
9. CONTINUE ALL WORK WITHIN THE LIMIT OF WORK LINE UNLESS NOTED OTHERWISE. ANY DAMAGE BY THE CONTRACTOR TO EXISTING AREAS IN AND AROUND SITE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO COST TO THE CONTRACT.
10. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS AS SET OUT IN THE NATIONAL BUILDING CODE OF CANADA 2015 (VOLUMES 1 AND 2) AND ITS SUPPLEMENTAL USER'S GUIDES AND ALL OTHER REFERENCED STANDARDS.
11. ALL SITE WORK ACTIVITIES SHALL CONFORM TO THE SAFE WORK PROCEDURES AND ENVIRONMENTAL REQUIREMENTS AS SET OUT BY THE APPLICABLE REGULATORY AUTHORITIES. CONTRACTOR MUST FOLLOW ALL PROVINCIAL HEALTH AND SAFETY REGULATIONS. CONTRACTOR SHALL SUBMIT A SITE SPECIFIC HEALTH AND SAFETY PLAN FOR APPROVAL. COMMENCEMENT OF WORK SHALL NOT TAKE PLACE UNTIL PLAN IS APPROVED BY OWNER (See specification section 01 35 29 06).
12. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS FOR THE EXECUTION OF THE WORK INCLUDING PERMITTING FOR HELICOPTER IF REQUIRED. PERMITS TO BE PROVIDED AT NO COST.
13. CONTRACTOR RESPONSIBLE TO SECURE SITE DURING CONSTRUCTION AND WEATHER DELAY PERIODS FOR PUBLIC SAFETY. TRAIL WILL BE CLOSED TO THE PUBLIC DURING CONSTRUCTION.
14. FOR STRUCTURAL INFORMATION REFER TO STRUCTURAL DRAWINGS.
15. THE CONTRACTOR SHALL COMPLY WITH ALL MITGATIVE MEASURES, TERMS AND CONDITIONS OUTLINED IN THE ATTACHED BASIC IMPACT ANALYSIS (BIA) NORTH HEAD TRAIL RECAPITALIZATION, SIGNAL HILL NATIONAL HISTORIC-PARKS CANADA

REMOVALS

1. CONTRACTOR SHALL ENSURE MINIMAL VEGETATIVE DISTURBANCE.
2. REMOVAL METHODS SHALL BE DONE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
3. ALL DEMOLITION MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED FACILITY. NO BURNING OF MATERIAL WILL BE PERMITTED.
4. EXISTING SIGNAGE IS TO BE SALVAGED AND RETURNED TO THE OWNER'S REPRESENTATIVE.

TIMBER NOTES

1. USING MATERIALS INDICATED, FABRICATE ITEMS TO SHAPES AND DIMENSIONS INDICATED, TRUE, ACCURATE, AND PLUMB OR LEVEL, WITH JOINTS TIGHTLY FITTED AND SECURE.
2. MAKE ALL CUTS IN WOOD WITH SQUARE, CLEAN, FREE OF SPLINTERS.
3. FOLLOW PCA GUIDELINES FOR THE USE, HANDLING AND DISPOSAL OF TREATED WOOD:
[HTTP://BUYANDELL.GC.CA/CDS/PUBLIC/2013/08/13/85971200100972216E852781F34D28FE/ANNEX_E_TREATED_WOOD_GUIDELINES_-_ENG.PDF](http://buyandsell.gc.ca/cds/public/2013/08/13/85971200100972216E852781F34D28FE/ANNEX_E_TREATED_WOOD_GUIDELINES_-_ENG.PDF)
4. FOR EACH TIMBER TRAIL STRUCTURE THE CONTRACTOR TO DETERMINE AN APPROPRIATE CONSTRUCTION METHODOLOGY.
5. DIMENSIONS AND STRUCTURE LOCATIONS MAY VARY TO SUIT SITE CONDITIONS WITH APPROVAL OF DEPARTMENT REPRESENTATIVE. ADJUSTMENT TO FIELD CONDITIONS SHALL BE EXPECTED AND PROVIDED AT NO EXTRA COST TO CONTRACT.
6. ALL MECHANICAL EQUIPMENT TO BE MOBILIZED AT WORK SITES MUST BE APPROVED BY DEPARTMENT REPRESENTATIVE.
7. NEW CONSTRUCTION LUMBER LOCATED ALONG THE TRAIL IS AVAILABLE FOR CONTRACTOR'S USE FREE OF CHARGE. CONTRACTOR RESPONSIBLE FOR REMOVAL OF LUMBER FROM SITE IF NOT USED IN CONSTRUCTION OF STAIRS. LUMBER CONSISTS OF THE FOLLOWING:
 - NEAR STAIR 4:
 - 60-2x6
 - 25-2x4
 - 15-4x4
 - NEAR STAIR 7:
 - 12-4X4
 - 15-2X4
 - NEAR NH14:
 - 2-6x6
 - 30-2x6
 - 10-2x4
 - NEAR MAINTENANCE COMPOUND
 - 36-6x6

ALL TIMBER IS 12 FEET LONG AND PRESSURE TREATED.
ALL QUANTITIES ARE APPROXIMATE AND ARE NOT GUARANTEED.

TIMBER FRAMING NOTES

1. ALL TIMBER AND LUMBER SHALL COMPLY WITH CSA-086.
2. ALL DIMENSIONAL LUMBER SHALL COMPLY WITH CSA 0141.
3. ALL TO BE PRESSURE TREATED TO CSA-080 WITH A RETENTION OF 24 KG/M3. PRESERVATIVE TO BE ACQ. SPF NO 1 GRADE OR BETTER.
4. FIELD TREATMENT OF TIMBER SHALL CONFORM TO THE FOLLOWING:
 - a. ALL FIELD CUTS TO RECEIVE THREE (3) LIBERAL COATS OF CLEAR PRESERVATIVE.
 - b. FILL ALL BORED HOLES WITH PRESERVATIVE IMMEDIATELY AFTER BORING.
 - c. TREAT CUTS PRIOR TO ASSEMBLY WHERE CUT ENDS WILL BE CONCEALED.
5. ALL TIMBER TO BE FULL LENGTH.
6. ALL HARDWARE TO BE HOT DIPPED GALVANIZED.
7. GALVANIZING SHALL CONFORM TO CSA G164.
8. ALL LAG SCREWS TO BE 16 MM DIAMETER, UNLESS OTHERWISE SPECIFIED.
9. ALL DRIFT BOLTS TO BE 16 MM DIAMETER, UNLESS OTHERWISE SPECIFIED.
10. ALL MACHINE BOLTS TO BE 16 MM DIAMETER C/W 6.4 MM THICK X 76 MM DIAMETER ROUND PLATE WASHERS AND NUTS. HOLE DIAMETER TO BE 18 MM.
11. BOLT HOLES SIZING SHALL CONFORM TO THE FOLLOWING:
 - a. DRIFT BOLTS: ALL DRIFT BOLTS SHALL HAVE A LENGTH EQUAL TO THE THICKNESS OF THE TIMBERS BEING FASTENED LESS 50 MM.
 - b. HOLES FOR DRIFT BOLTS TO BE BORED 2 MM SMALLER DIAMETER THAN THE BOLT SIZE AND FOR FULL LENGTH OF BOLT.
 - c. ALL MACHINE BOLTS SHALL HAVE A LENGTH EQUAL TO THE THICKNESS OF THE TIMBERS BEING FASTENED PLUS THICKNESS OF WASHER PLUS 40 MM.
 - d. ALL MACHNINE BOLTS TO BE THREADED FOR 64 MM
 - e. ALL HOLES FOR MACHNINE BOLTS TO BE SAME DIAMETER AS BOLT.
13. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 55 LB ROLL ROOFING OR EQUIVALENT.
14. APPLY WISEWRAP JOISTTAPE OR APPROVED EQUIVALENT TO THE TOP OF ALL TIMBER BEAMS AND TIMBER BEARING PADS IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS.
15. CONTRACTOR TO EXCAVATE SOIL/BEDROCK TO ENSURE STABILITY OF SLOPES PRIOR TO AND DURING CRIB INSTALLATION.

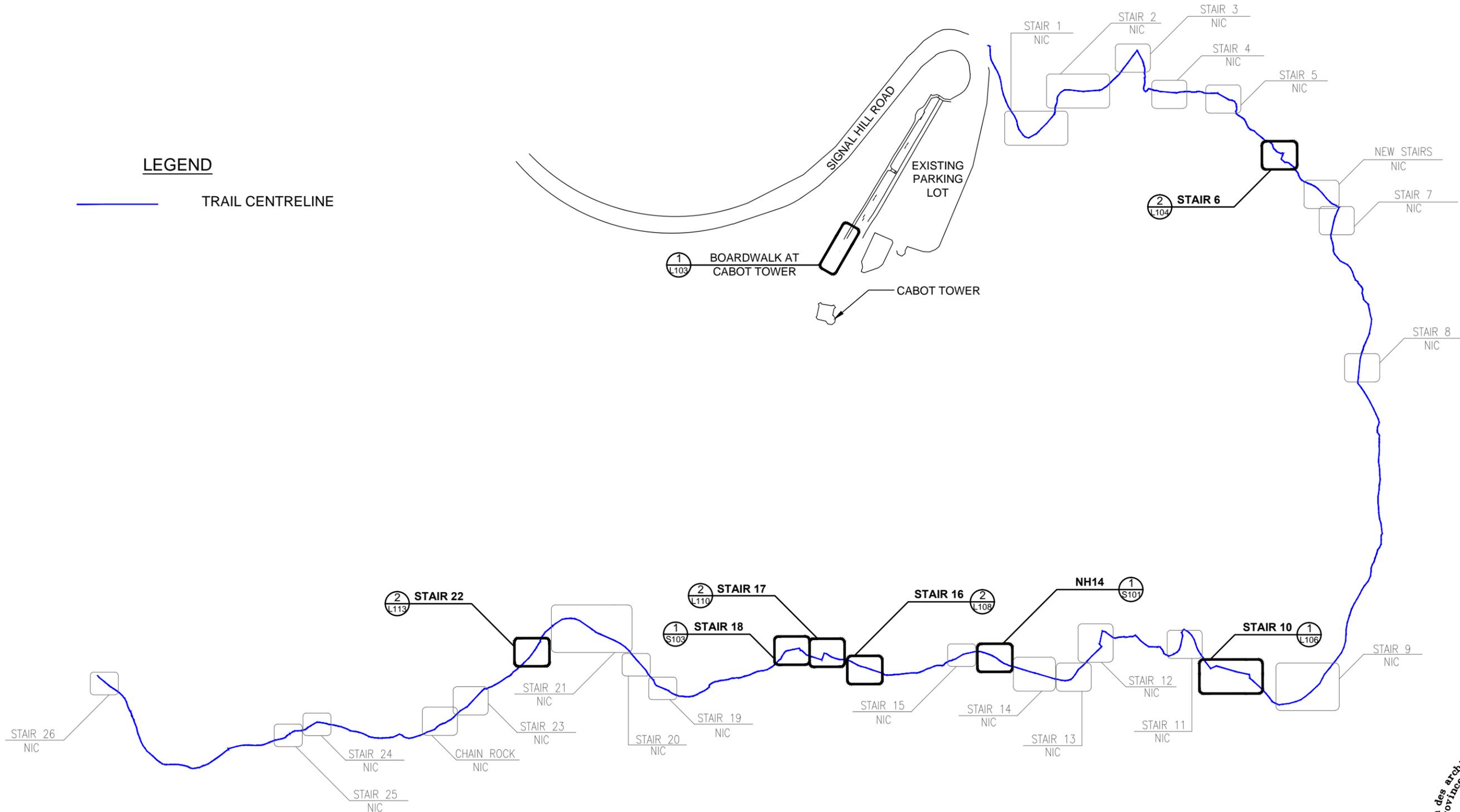


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							DATE	OCT. 2017	SHEET	L100
				4	ISSUED FOR TENDER	10/27/2017	DESIGNED			
				3	ISSUED FOR 100% REVIEW	10/18/2017				
				2	ISSUED FOR 99% REVIEW	10/10/2017				
NO.	REVISION	MM/DD/YY								



LEGEND

— TRAIL CENTRELINE



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100 LEMARCHANT ROAD
ST. JOHN'S, NL
CANADA A1C 2H2
TEL (709) 738-2500
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**NORTH HEAD TRAIL
RECAPITALIZATION**

DRAWING

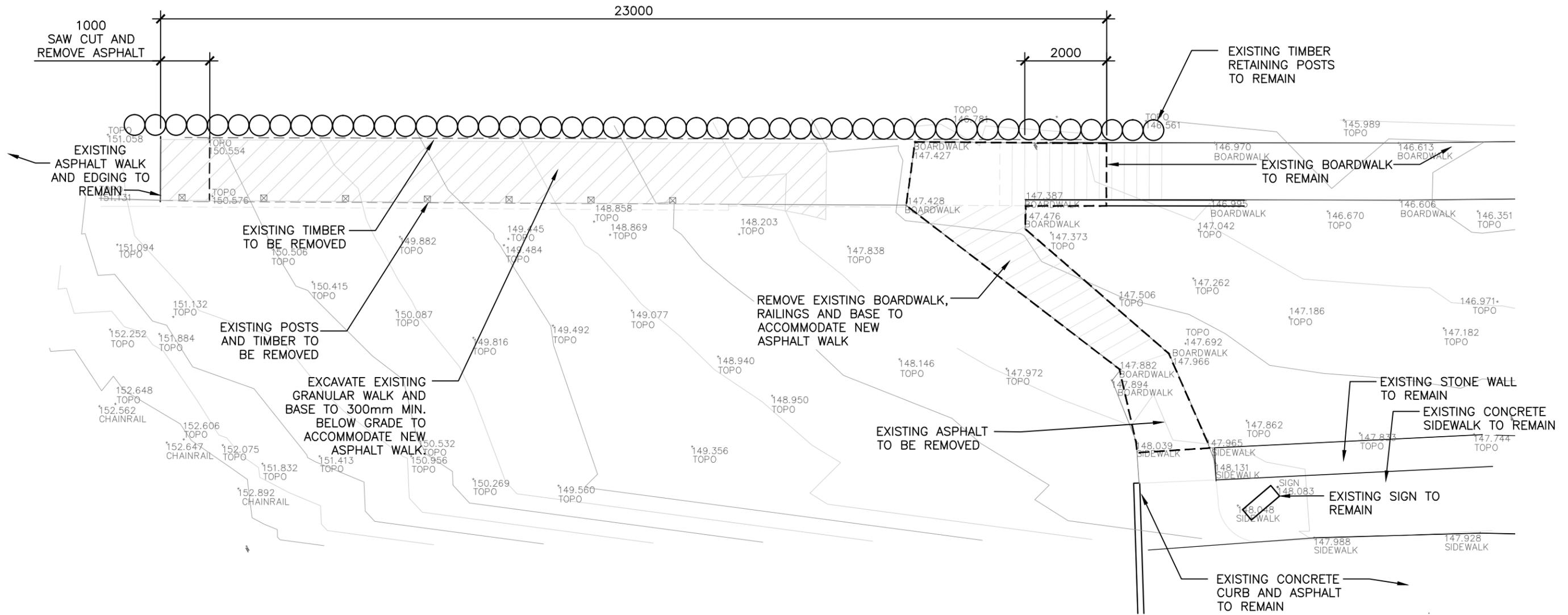
OVERALL PLAN

NO.	REVISION	MM/DD/YY
4	ISSUED FOR TENDER	10/27/2017
3	ISSUED FOR 100% REVIEW	10/18/2017
2	ISSUED FOR 99% REVIEW	10/10/2017

DRAWN	CG
DATE	OCT. 2017
DESIGNED	GW

SCALE
1:2,500

SHEET
L101



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G. Weiland
GERHARD WEILAND



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 ST. JOHN'S, NL
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 TEL (709) 738-2500
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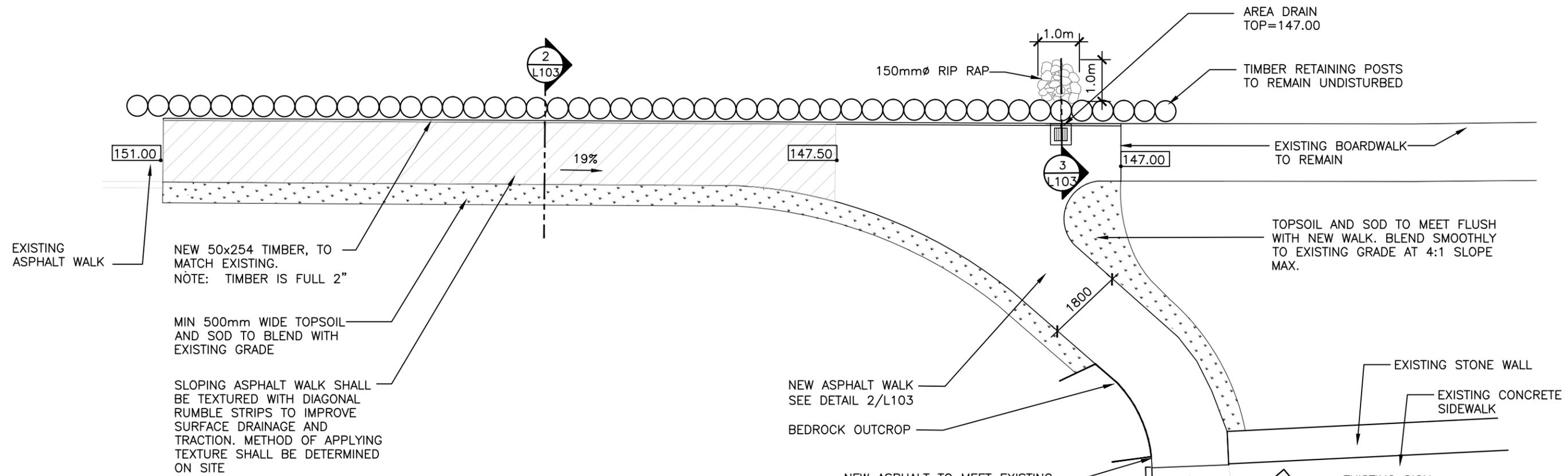
**NORTH HEAD TRAIL
RECAPITALIZATION**

DRAWING

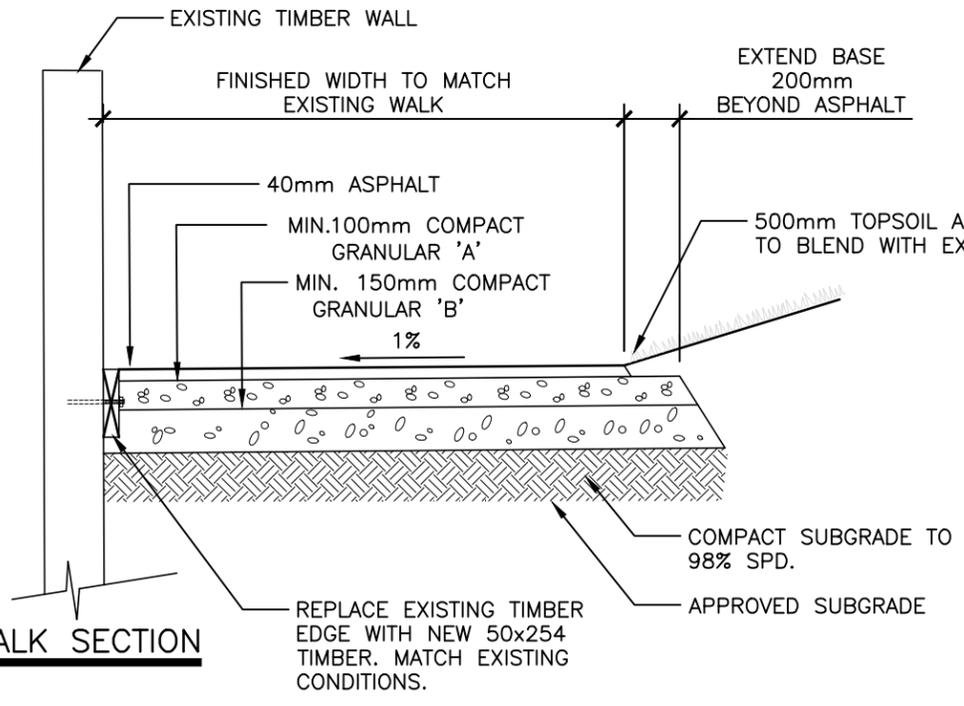
**BOARDWALK AT
CABOT TOWER
EXISTING
CONDITIONS AND
DEMOLITION**

NO.	REVISION	MM/DD/YY
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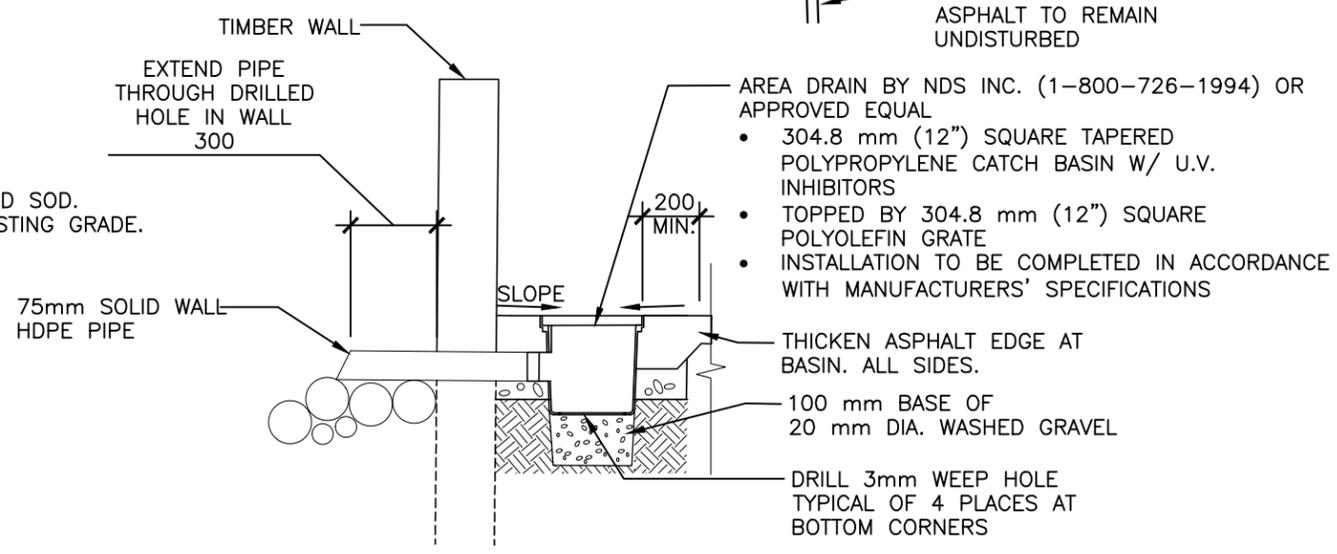
DRAWN	SCALE
CG	1:100
DATE	SHEET
OCT. 2017	L102
DESIGNED	
GW	



1 BOARDWALK PLAN
L103 1:100



2 ASPHALT WALK SECTION
L103 1:25



3 AREA DRAIN SECTION AND DETAIL
L103 1:25

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ST. JOHN'S, NL
CANADA A1C 2H2
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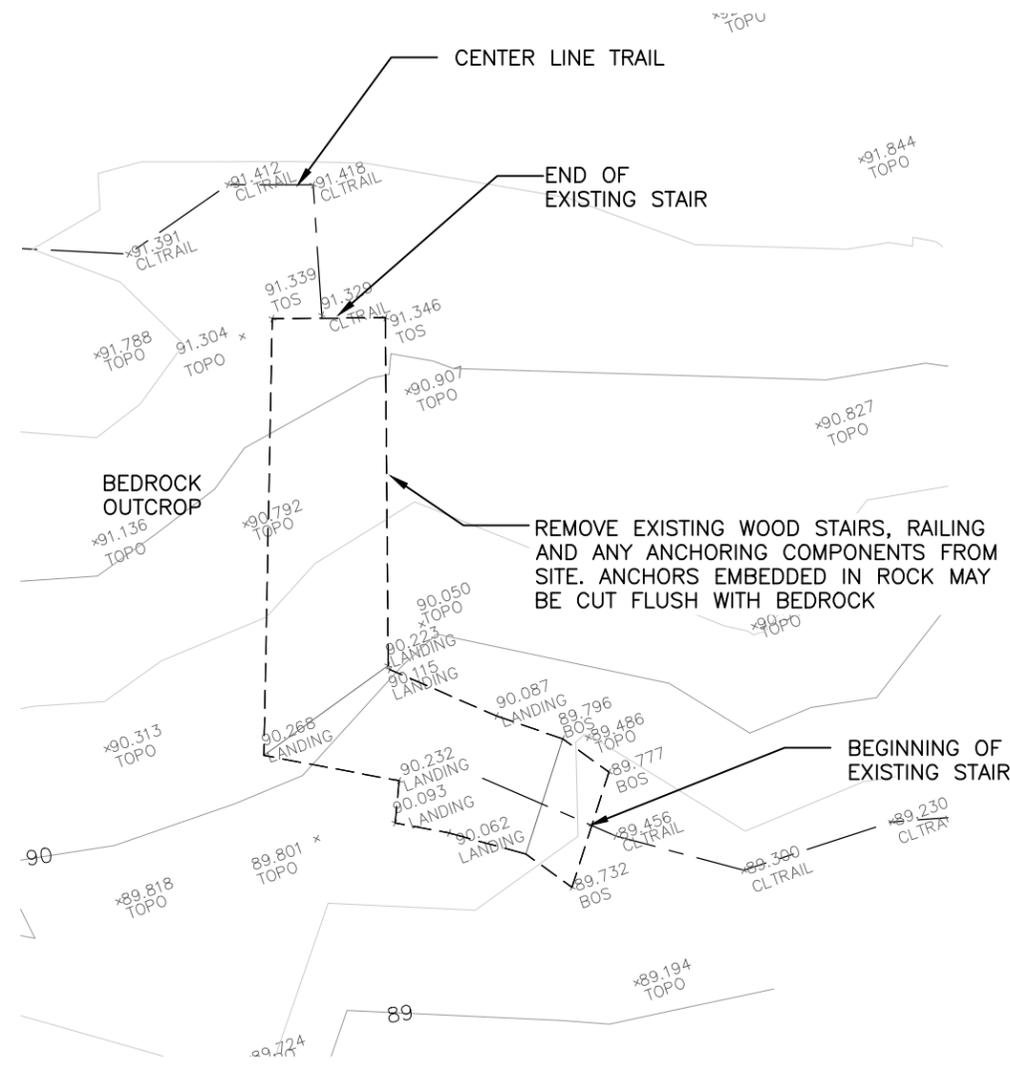
**NORTH HEAD TRAIL
RECAPITALIZATION**

DRAWING

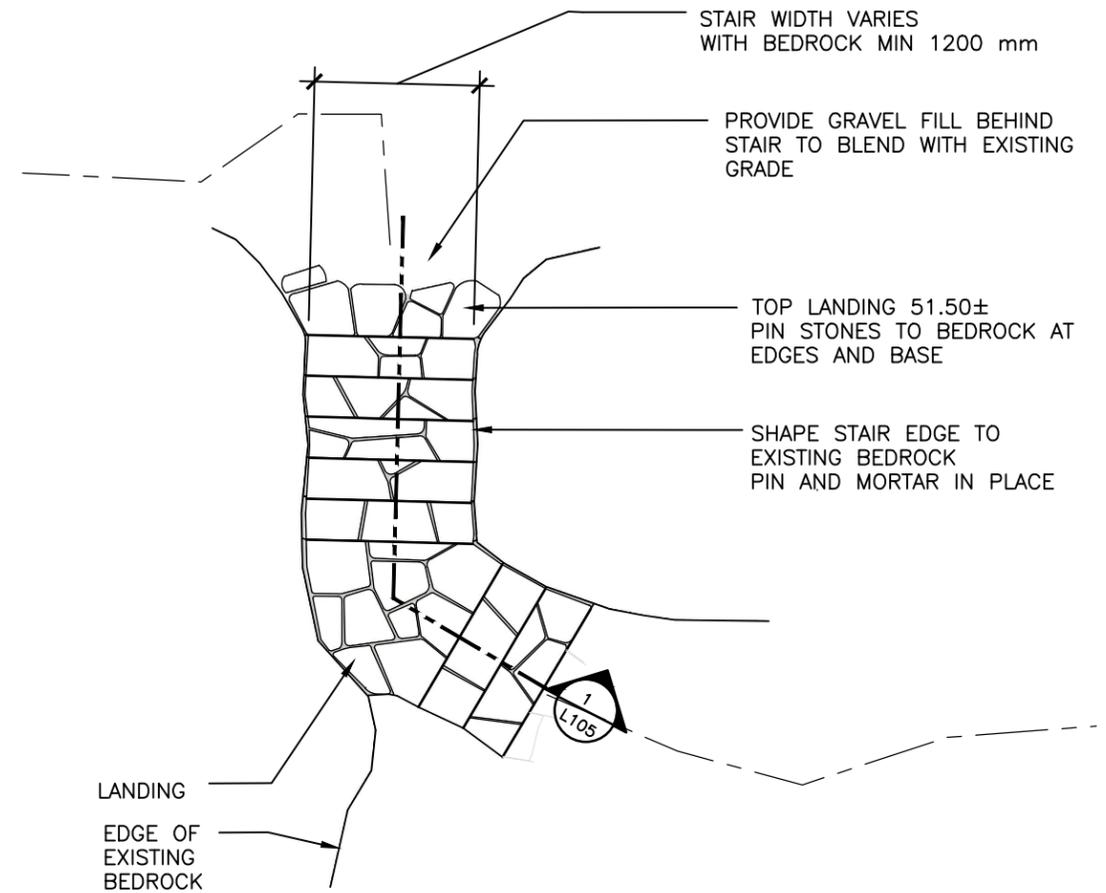
**BOARDWALK AT
CABOT TOWER
PLAN AND
DETAILS**

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DRAWN	SCALE
CG	AS NOTED
DATE	SHEET
OCT. 2017	L103
DESIGNED	
GW	



1 STAIR 6 EXISTING CONDITIONS
L104 SCALE 1:50



2 STAIR 6 PLAN
L104 SCALE 1:50

MASONRY NOTES

1. STONE FOR STAIRS TO BE SOURCED FROM SITE NEAR STAIR THREE.
2. MINIMUM STONE SIZE TO BE 150 mm IN ANY DIMENSION
3. STONES FOR STAIRS SHALL BE SHAPED TO PROVIDE AN EVEN FIT BETWEEN NEXT STONE AND BEDROCK
4. JOINTS BETWEEN STONES MUST BE STAGGERED A MINIMUM OF 50 mm
5. TYPE 'S' MORTAR. CONTRACTOR TO SUBMIT PRODUCT INFORMATION FOR APPROVAL.
6. STONE WORK TO BE COMPLETED BY A MASON WITH MIN. 5 YEARS EXPERIENCE
7. CONTRACTOR TO PROVIDE MOCK-UP OF STONEMWORK OF 2 LOWER STAIRS FOR APPROVAL PRIOR TO PROCEEDING WITH WORK.



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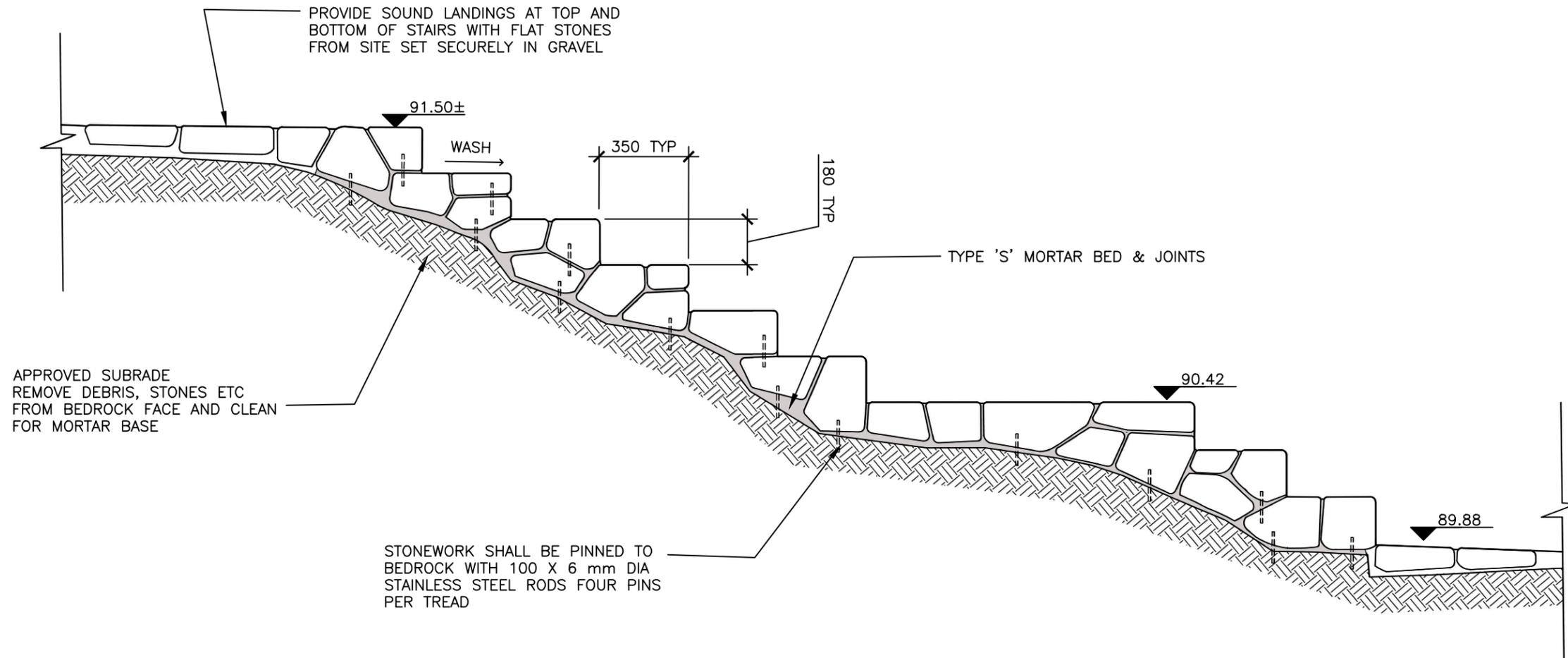
**NORTH HEAD TRAIL
RECAPITILIZATION**

DRAWING

**STAIR 6
EXISTING
CONDITIONS,
DEMOLITION AND
PLAN**

NO.	REVISION	MM/DD/YY
4	ISSUED FOR TENDER	10/27/2017
3	ISSUED FOR 100% REVIEW	10/18/2017
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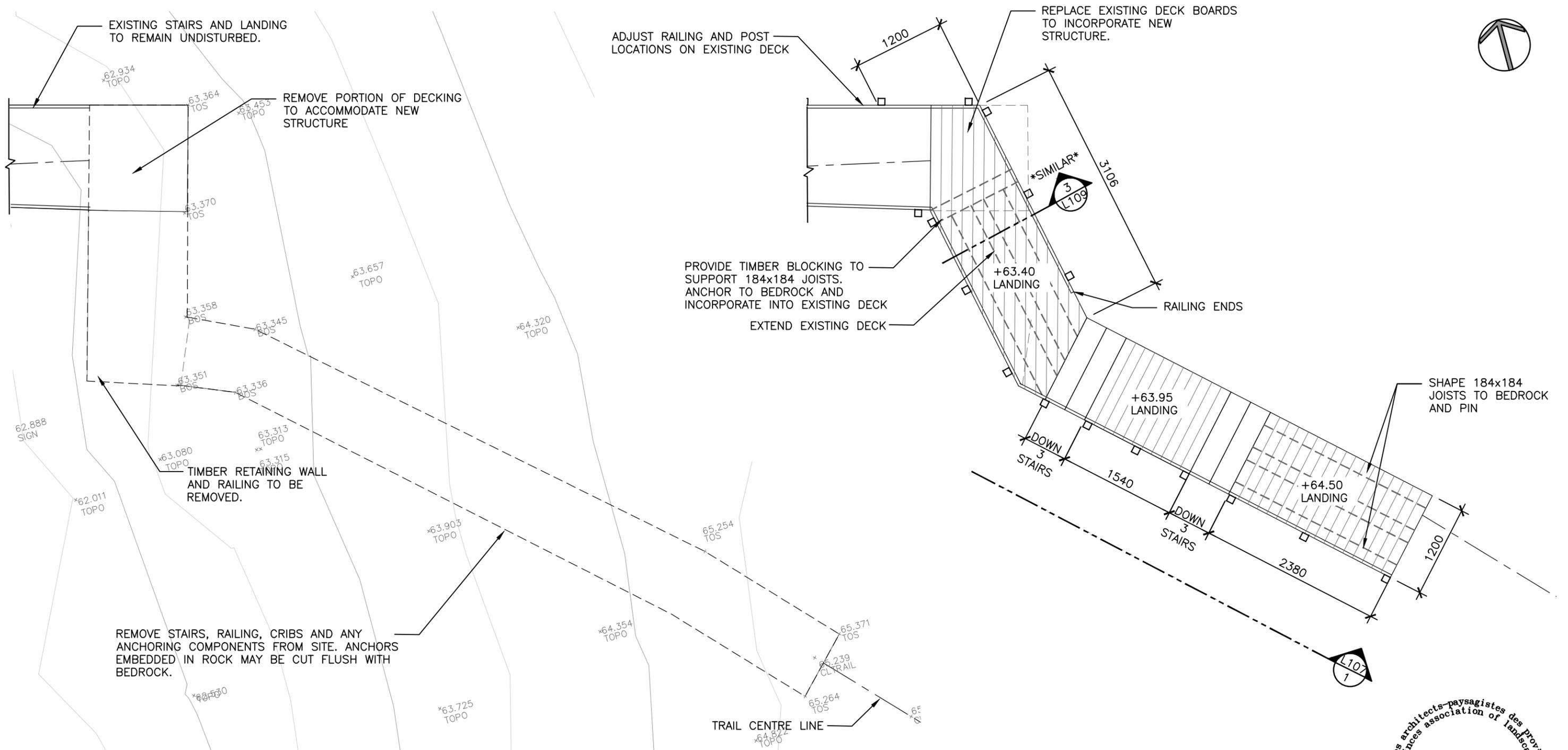
DRAWN	CG	SCALE	1:50
DATE	OCT. 2017	SHEET	L104
DESIGNED	GW		



1 STAIR 6 SECTION
L105 SCALE 1:20

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							<p>DATE</p> <p>OCT. 2017</p>	<p>SHEET</p> <p>L105</p>
							<p>DESIGNED</p> <p>GW</p>	
				<p>NO.</p>	<p>REVISION</p>	<p>MM/DD/YY</p>		
				4	ISSUED FOR TENDER	10/27/2017		
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1 STAIR 10 EXISTING
L106 SCALE 1:50

2 STAIR 10 PLAN
L106 SCALE 1:50

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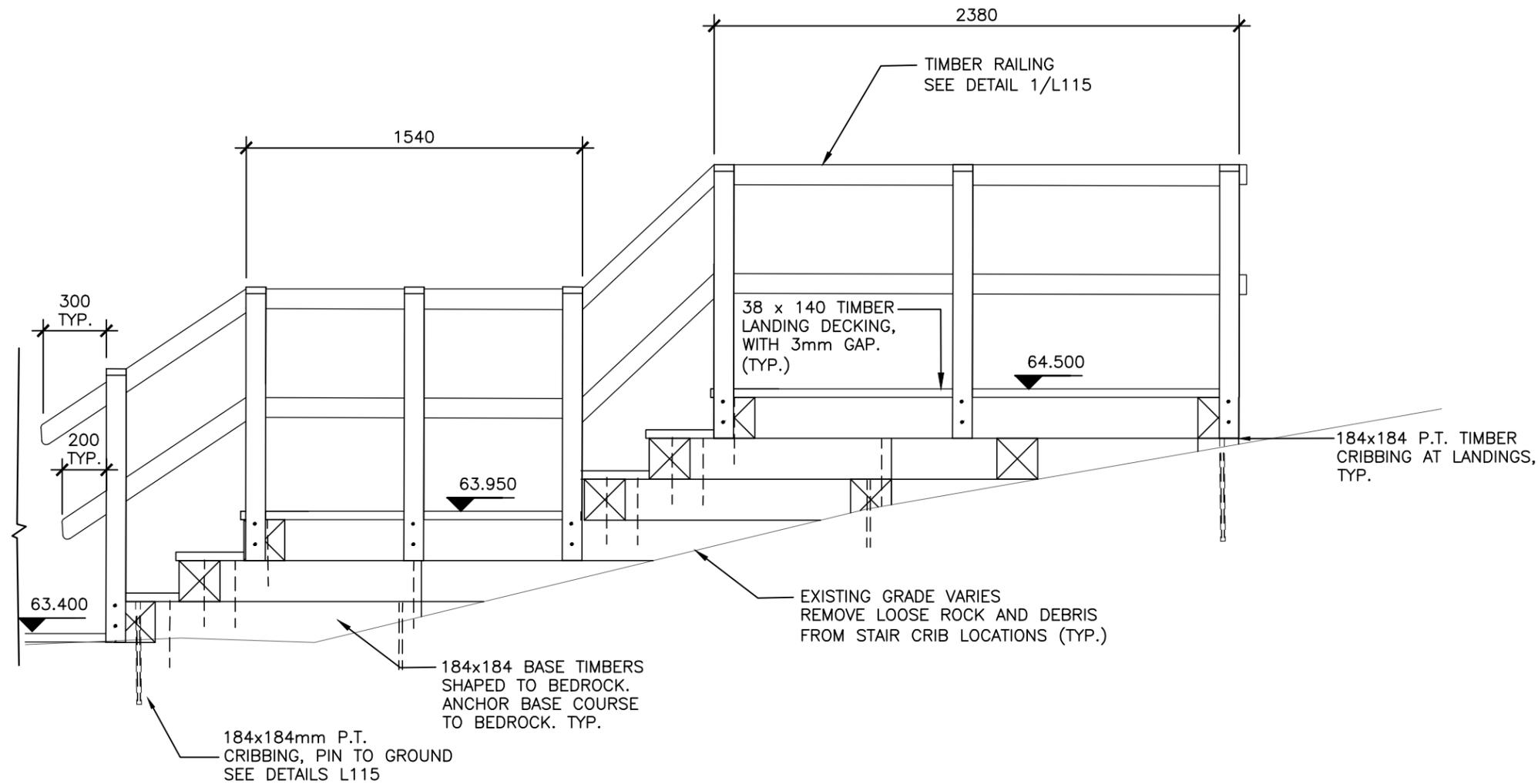
NORTH HEAD TRAIL
RECAPITALIZATION

DRAWING

STAIR 10
EXISTING
CONDITIONS AND
DEMOLITION

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4	ISSUED FOR TENDER	10/27/2017
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CG	1:50
DATE	SHEET
OCT. 2017	L106
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1 STAIR 10 ELEVATION
L107 SCALE 1:25

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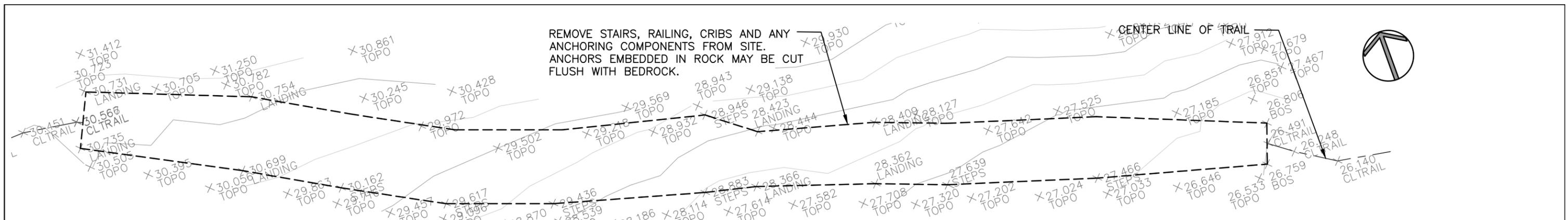
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RECAPITALIZATION

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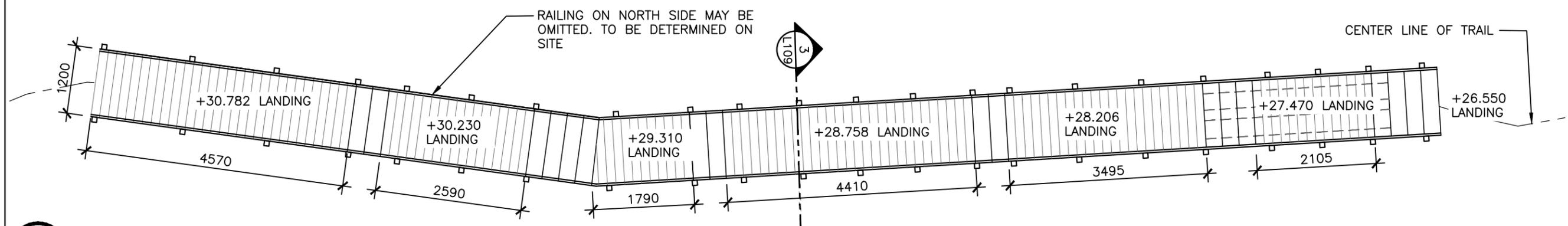
STAIR 10
ELEVATION

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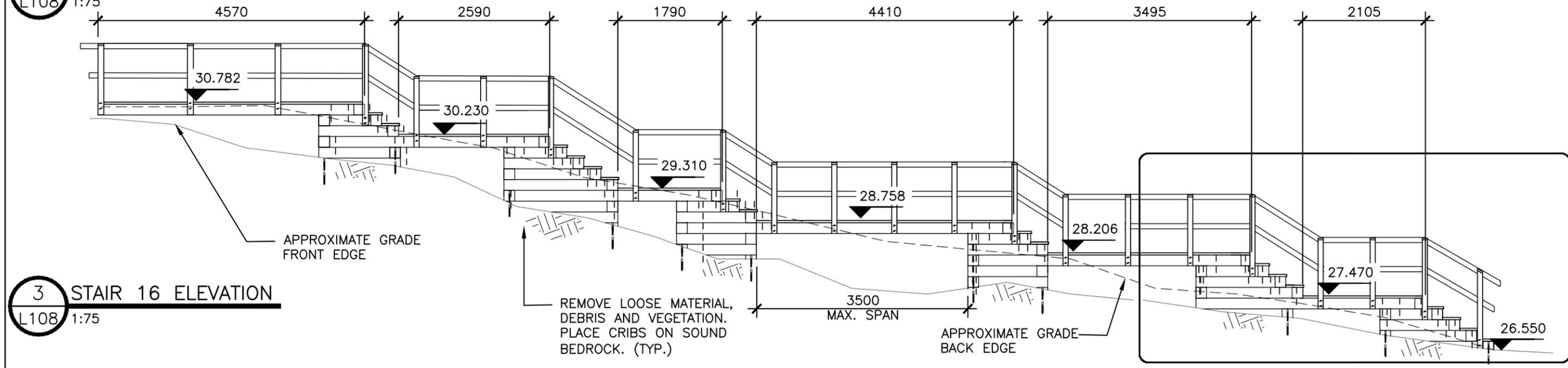
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DATE	OCT. 2017	SHEET	L107
DESIGNED	GW		



1 STAIR 16 EXISTING CONDITIONS
L108 1:75



2 STAIR 16 PLAN
L108 1:75



3 STAIR 16 ELEVATION
L108 1:75



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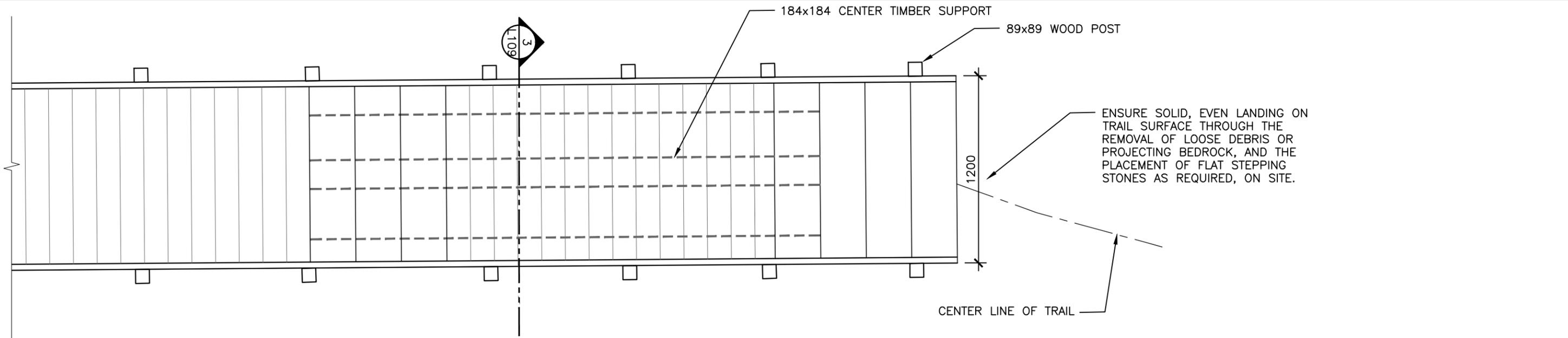
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PROJECT
**NORTH HEAD TRAIL
RECAPITILAZTION**

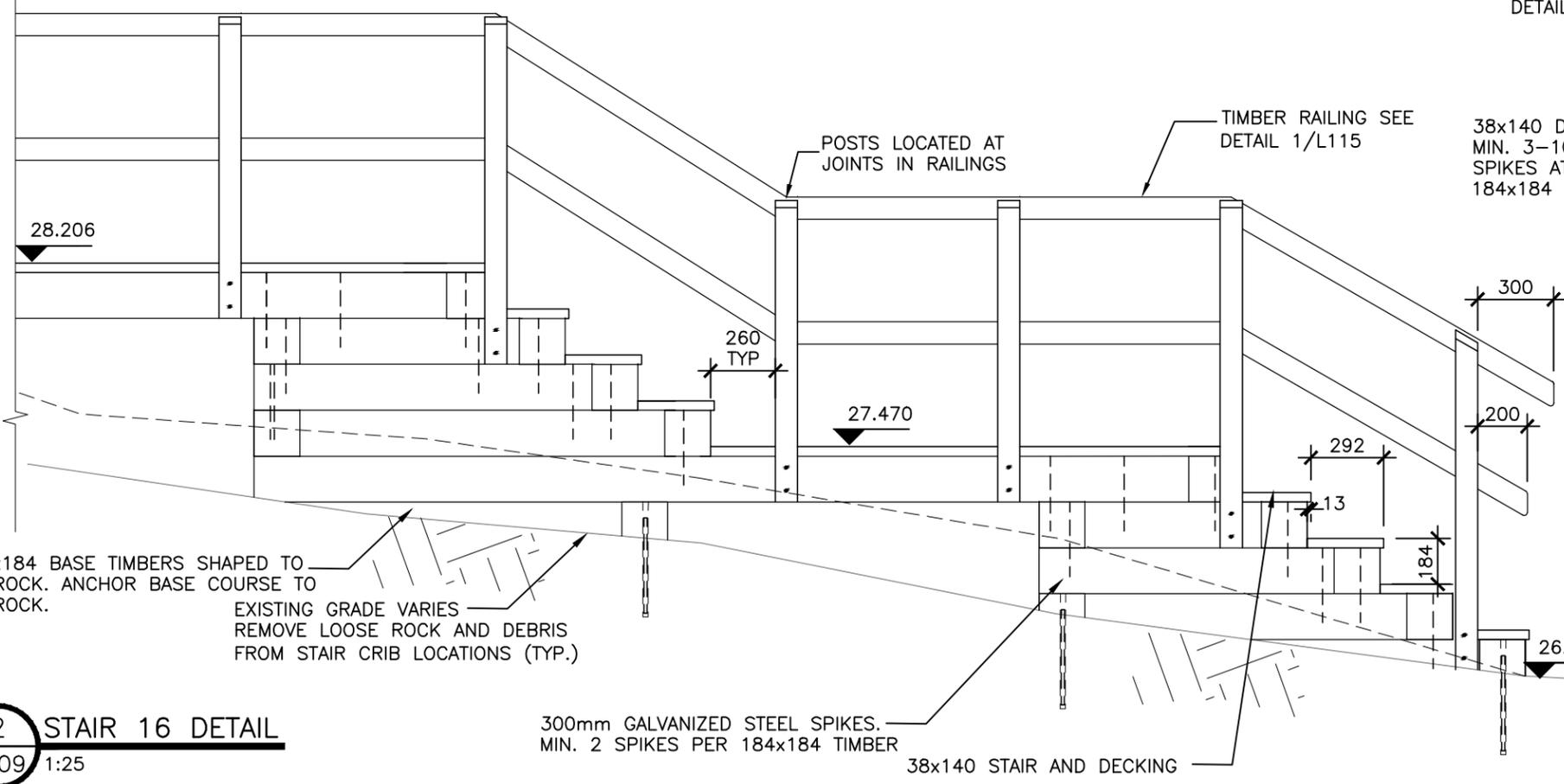
DRAWING
**STAIR 16
EXISTING
CONDITIONS,
DEMOLITION AND
ELEVATION**

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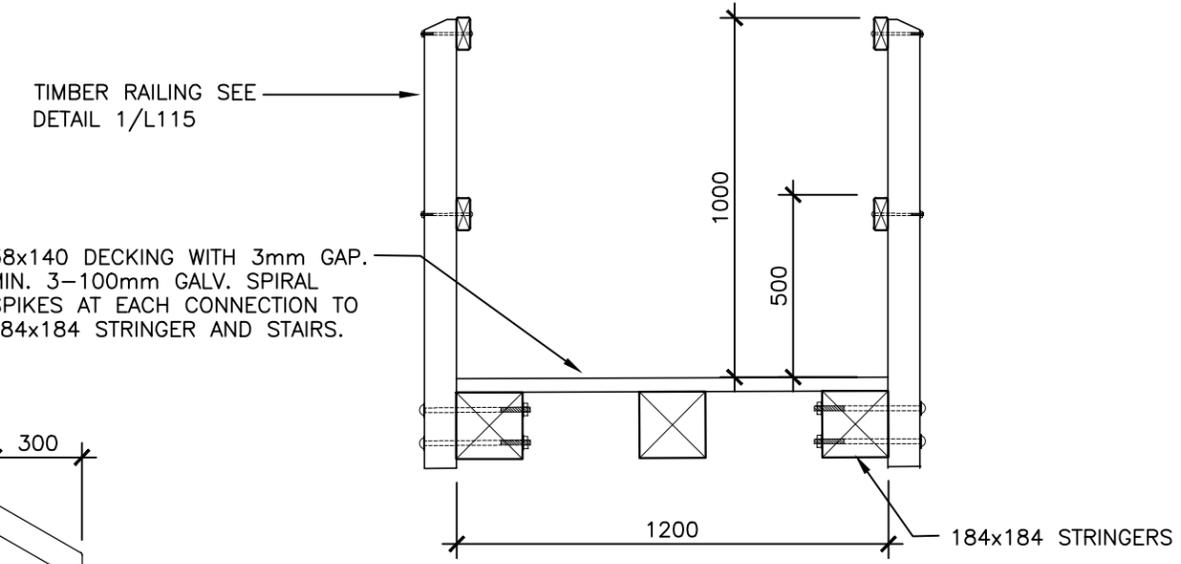
DRAWN CG
DATE OCT. 2017
DESIGNED GW
SCALE 1:75
SHEET **L108**



1 TIMBER SUPPORT PLAN
L109 1:25



2 STAIR 16 DETAIL
L109 1:25



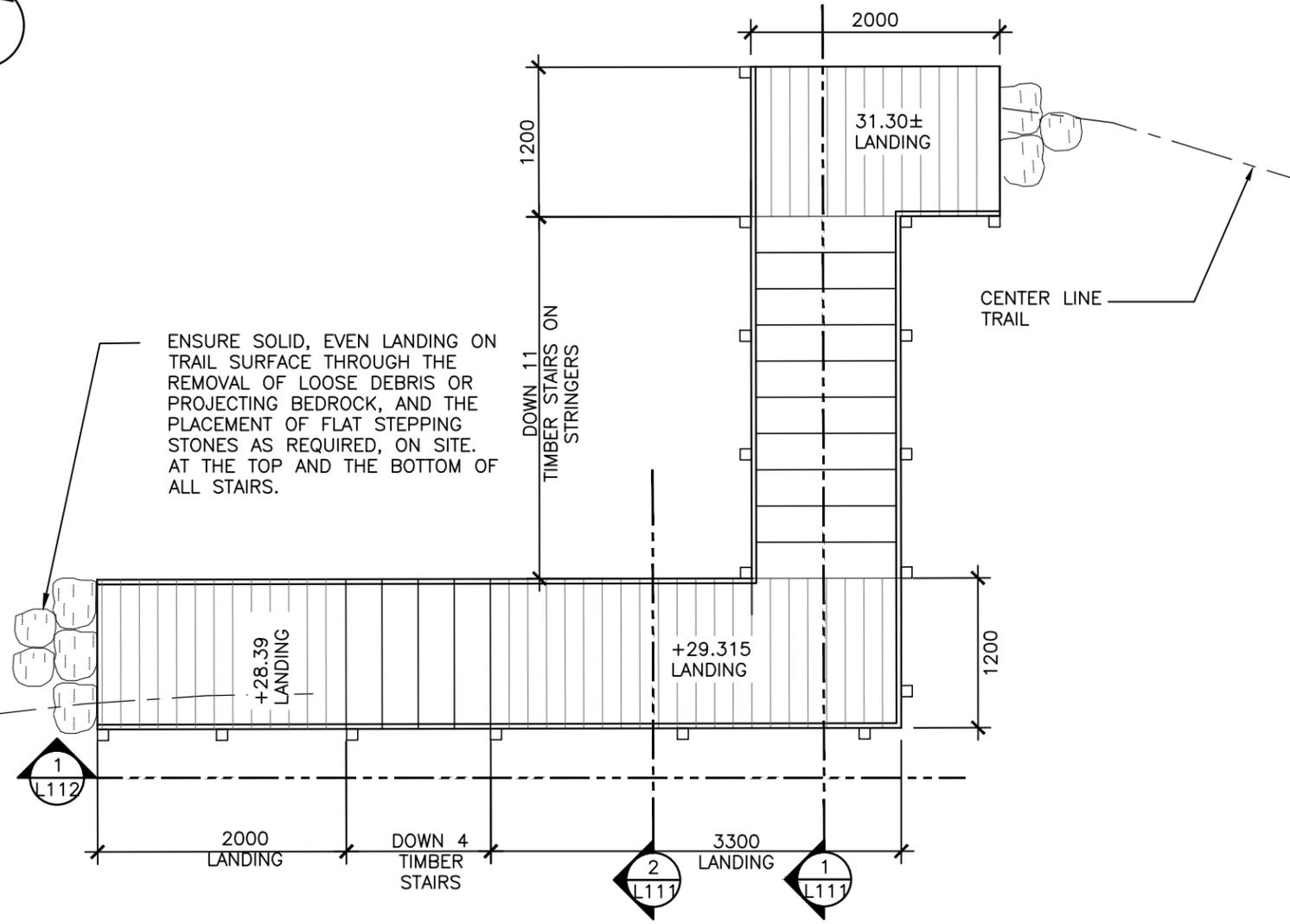
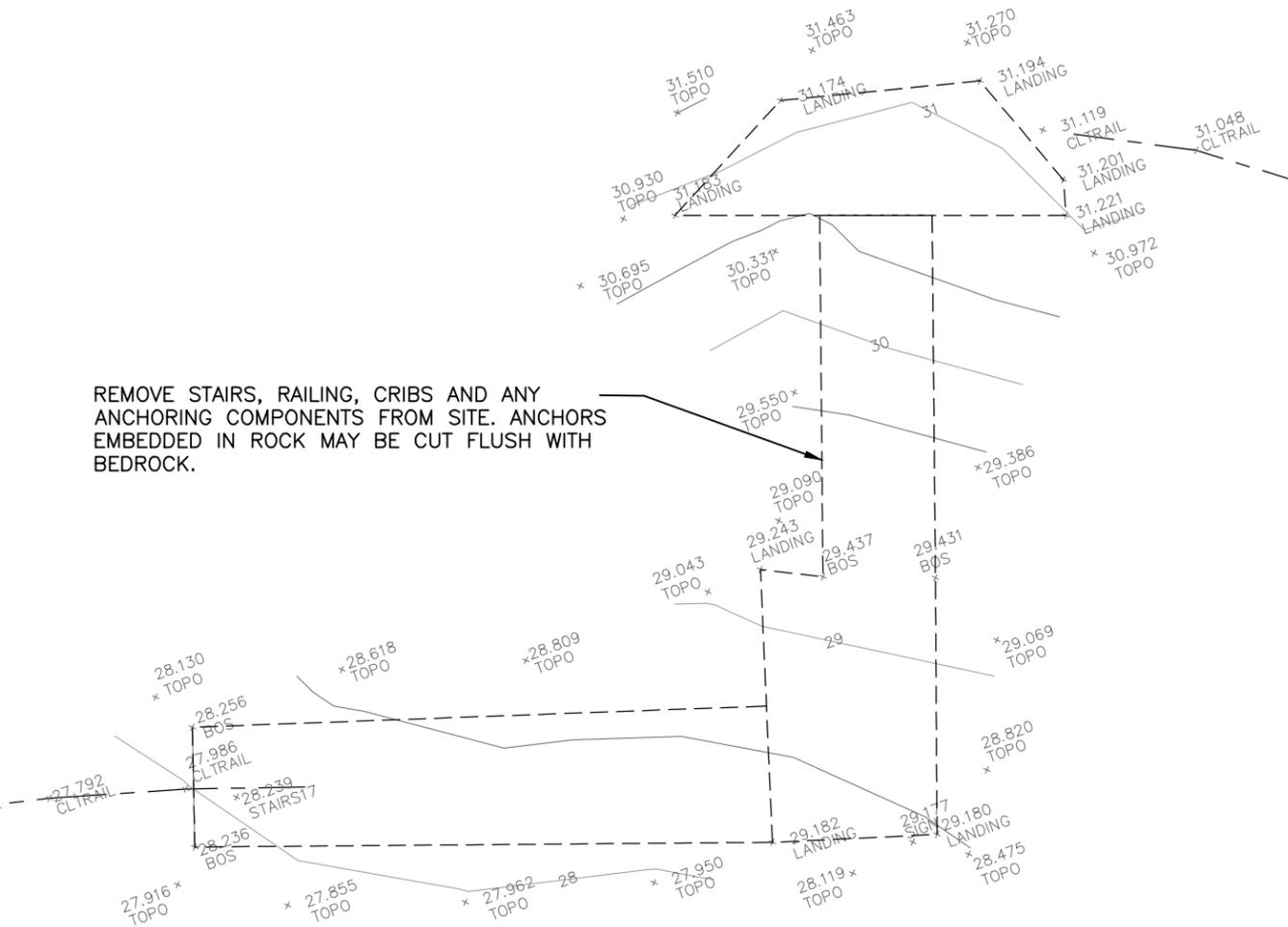
3 SECTION
L109 1:20

ENSURE SOLID, EVEN LANDING ON TRAIL SURFACE THROUGH THE REMOVAL OF LOOSE DEBRIS OR PROJECTING BEDROCK, AND THE PLACEMENT OF FLAT STEPPING STONES AS REQUIRED, ON SITE.



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		<p>NORTH HEAD TRAIL RECAPITILAZTION</p>	<p>STAIR 16 TIMBER SUPPORT PLAN AND DETAIL</p>	CG	AS NOTED	
				DATE	OCT. 2017	
				DESIGNED	GW	
				SHEET	L109	
			NO.	REVISION	MM/DD/YY	

REMOVE STAIRS, RAILING, CRIBS AND ANY ANCHORING COMPONENTS FROM SITE. ANCHORS EMBEDDED IN ROCK MAY BE CUT FLUSH WITH BEDROCK.



ENSURE SOLID, EVEN LANDING ON TRAIL SURFACE THROUGH THE REMOVAL OF LOOSE DEBRIS OR PROJECTING BEDROCK, AND THE PLACEMENT OF FLAT STEPPING STONES AS REQUIRED, ON SITE. AT THE TOP AND THE BOTTOM OF ALL STAIRS.

1 STAIR 17 EXISTING
L110 1:50

2 STAIR 17 PLAN
L110 1:50



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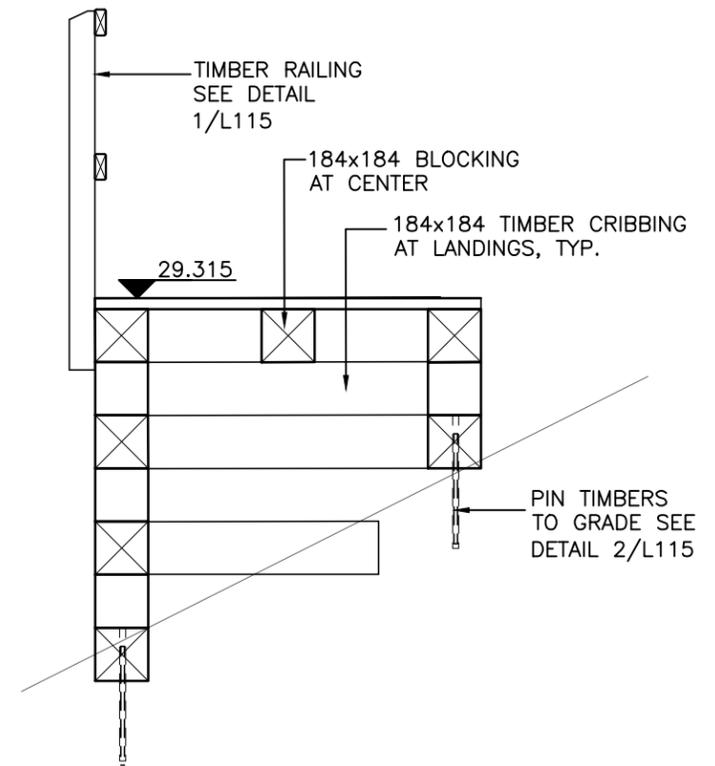
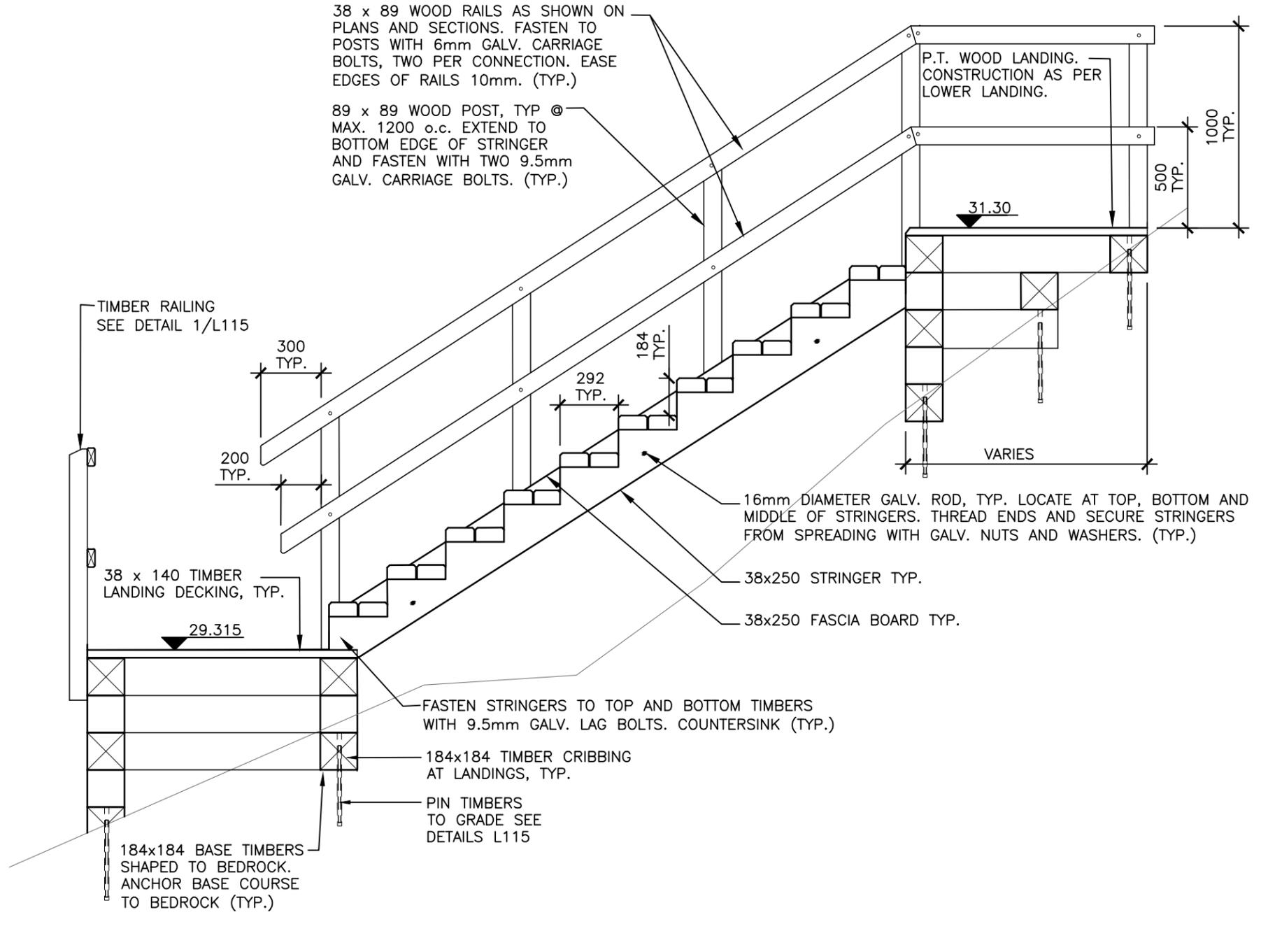
**NORTH HEAD TRAIL
RECAPITILAZTION**

DRAWING

**STAIR 17
EXISTING
CONDITIONS,
DEMOLITION
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DRAWN	SCALE
CG	1:50
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1 STAIR 17 SECTION
L111 1:25

2 STAIR 17 SECTION
L111 1:25

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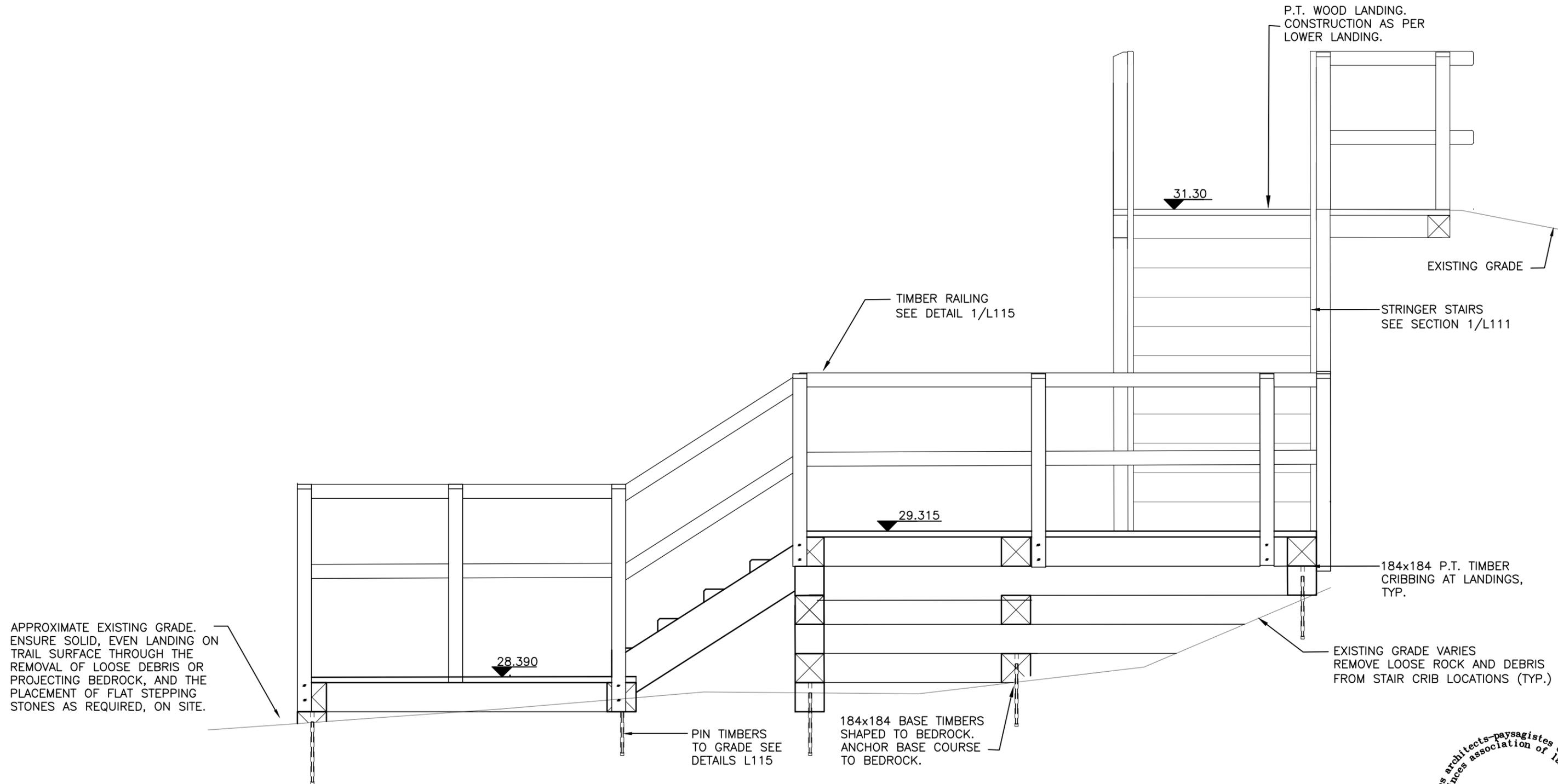
NORTH HEAD TRAIL
RECAPITILAZTION

DRAWING

STAIR 17
SECTIONS

NO.	REVISION	MM/DD/YY
4	ISSUED FOR TENDER	10/27/2017
3	ISSUED FOR 100% REVIEW	10/18/2017
2	ISSUED FOR 99% REVIEW	10/10/2017

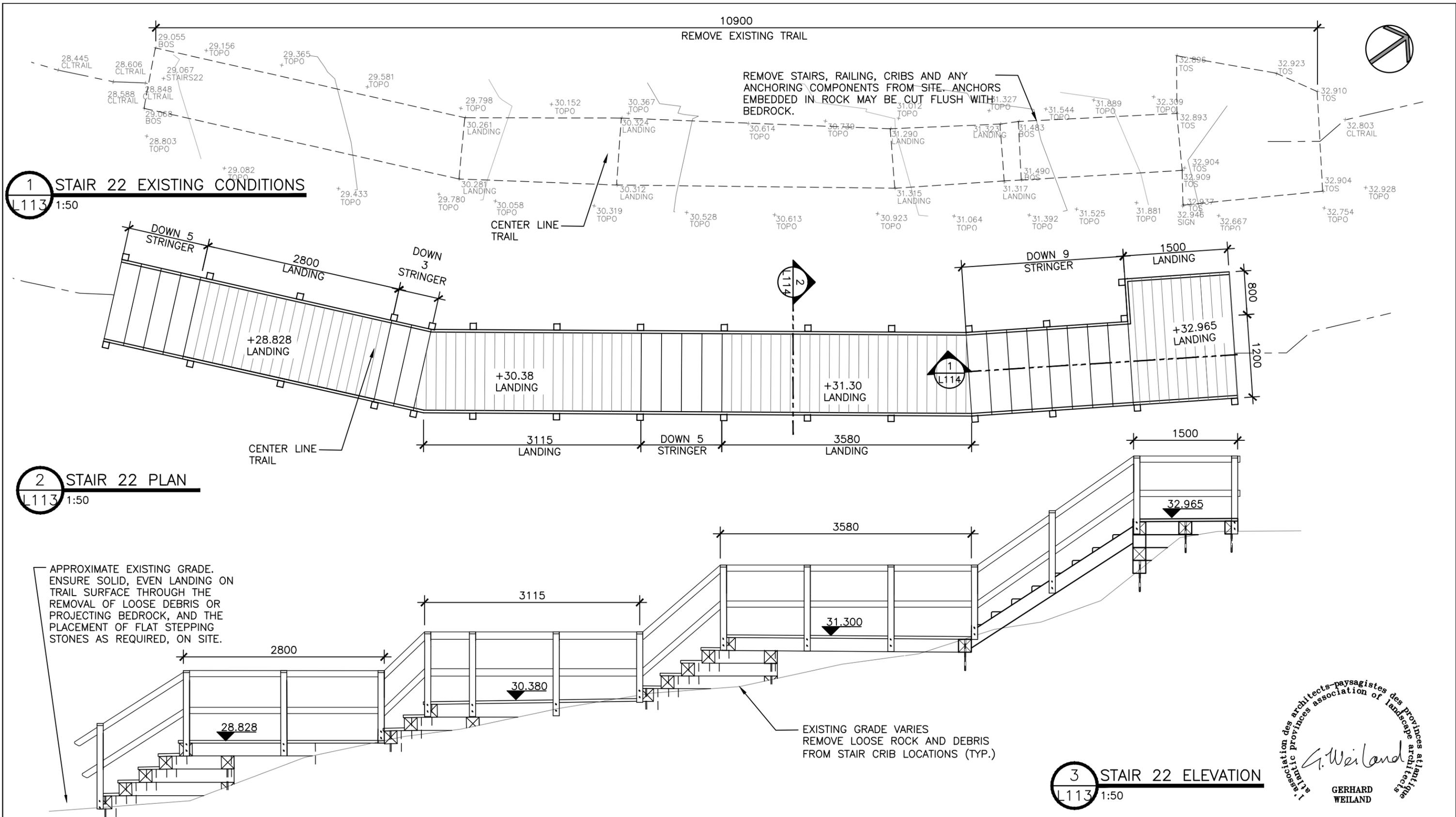
DRAWN CG
SCALE 1:25
DATE OCT. 2017
DESIGNED GW
SHEET L111



1 STAIR 17 ELEVATION
L112 1:25

Association des architectes-paysagistes des Provinces atlantiques
Atlantic provinces association of landscape architects
G. Weiland
GERHARD WEILAND

 <p>100 LEMARCHANT ROAD ST. JOHN'S, NL CANADA A1C 2H2</p> <p>TEL (709) 738-2500 www.tractconsulting.com</p>	<p>CLIENT</p>  <p>Parks Canada Parcs Canada</p>	<p>PROJECT</p> <p>NORTH HEAD TRAIL RECAPITILAZTION</p>	<p>DRAWING</p> <p>STAIR 17 ELEVATION</p>		<p>DRAWN</p> <p>CG</p>	<p>SCALE</p> <p>1:25</p>
					<p>DATE</p> <p>OCT. 2017</p>	<p>SHEET</p> <p>L112</p>
				4	<p>ISSUED FOR TENDER</p> <p>10/27/2017</p>	
				3	<p>ISSUED FOR 100% REVIEW</p> <p>10/18/2017</p>	
				2	<p>ISSUED FOR 99% REVIEW</p> <p>10/10/2017</p>	<p>DESIGNED</p> <p>GW</p>
NO.	<p>REVISION</p>	<p>MM/DD/YY</p>				

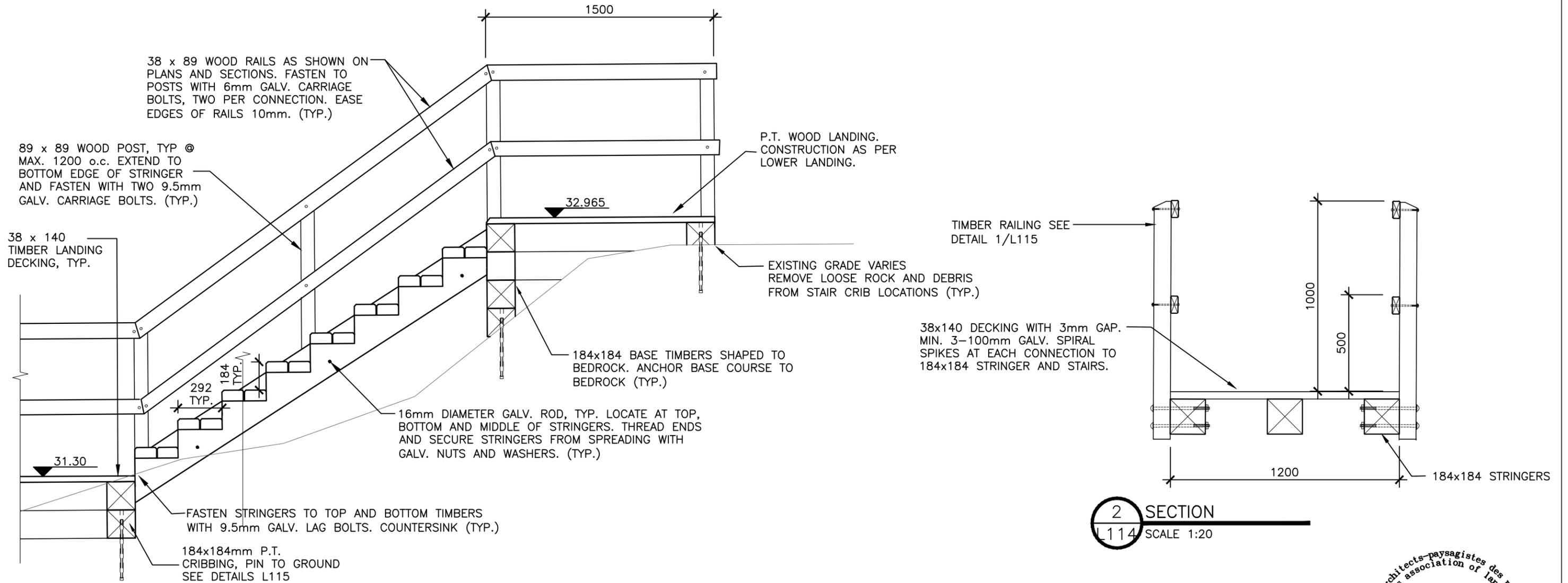


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 GERHARD WEILAND

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				<p>3</p> <p>ISSUED FOR 100% REVIEW</p> <p>10/18/2017</p>		<p>DATE</p> <p>OCT. 2017</p> <p>SHEET</p> <p>L113</p>	
				<p>2</p> <p>ISSUED FOR 99% REVIEW</p> <p>10/10/2017</p>			
				<p>NO.</p> <p>REVISION</p> <p>MM/DD/YY</p>			<p>DESIGNED</p> <p>GW</p>
				<p>1</p> <p>ISSUED FOR 90% REVIEW</p> <p>10/10/2017</p>			

NOTES:

1. VERIFY NUMBER OF RISERS ON SITE TO SUIT EXISTING CONDITIONS.
2. STAIRS TO BE 1200mm WIDE FROM OUTSIDE TO OUTSIDE OF STRINGERS.
3. DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
4. ALL TIMBER TO BE 184x184 TIMBER.
5. WHERE POSSIBLE AVOID STAIR RUNS EXCEEDING 1800mm IN HEIGHT. INSTALL LANDINGS TO LIMIT LONG RUNS.
6. LANDINGS TO BE MINIMUM 1200mm IN LENGTH.
7. CONSIDER STAIR CONSTRUCTION IN AREAS WHERE GRADES EXCEED 15% IN ALL AREAS AND 10% IN HIGH USE AREAS.

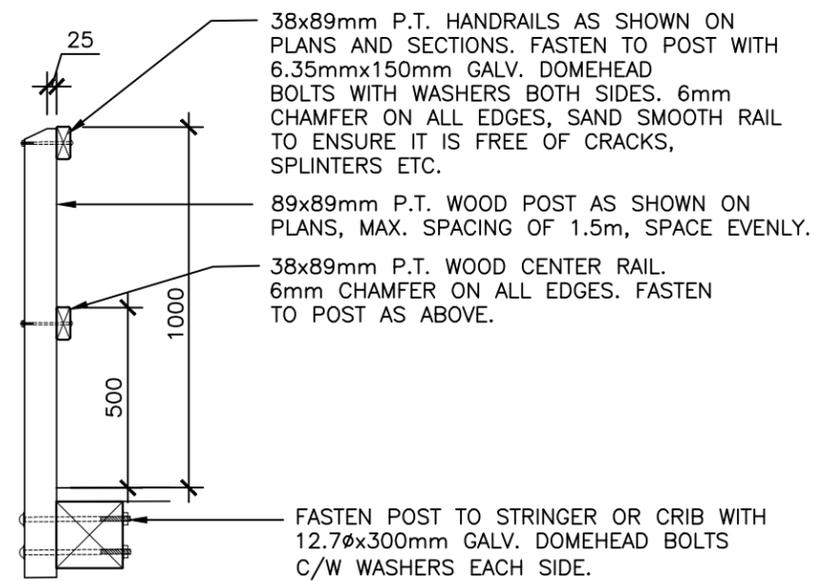


1 STAIR 22 SECTION
L114 SCALE 1:25

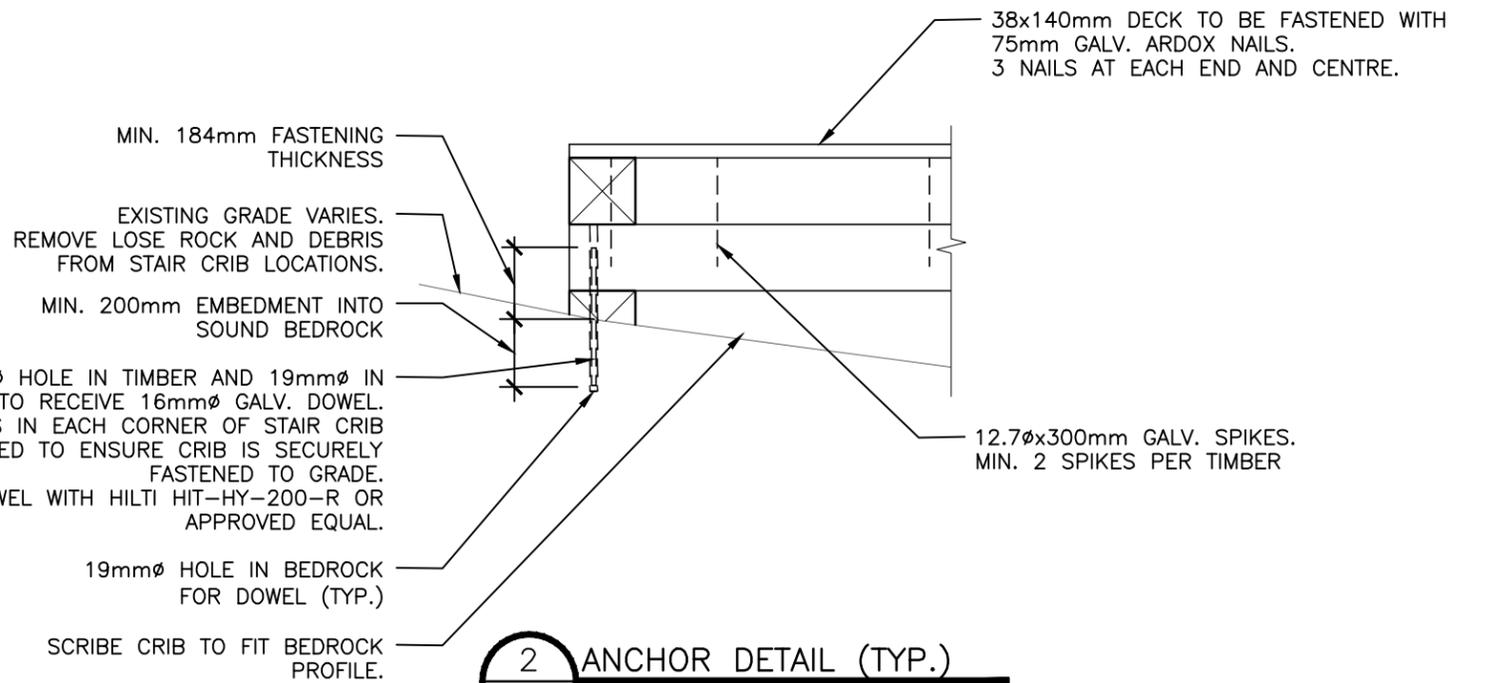
2 SECTION
L114 SCALE 1:20

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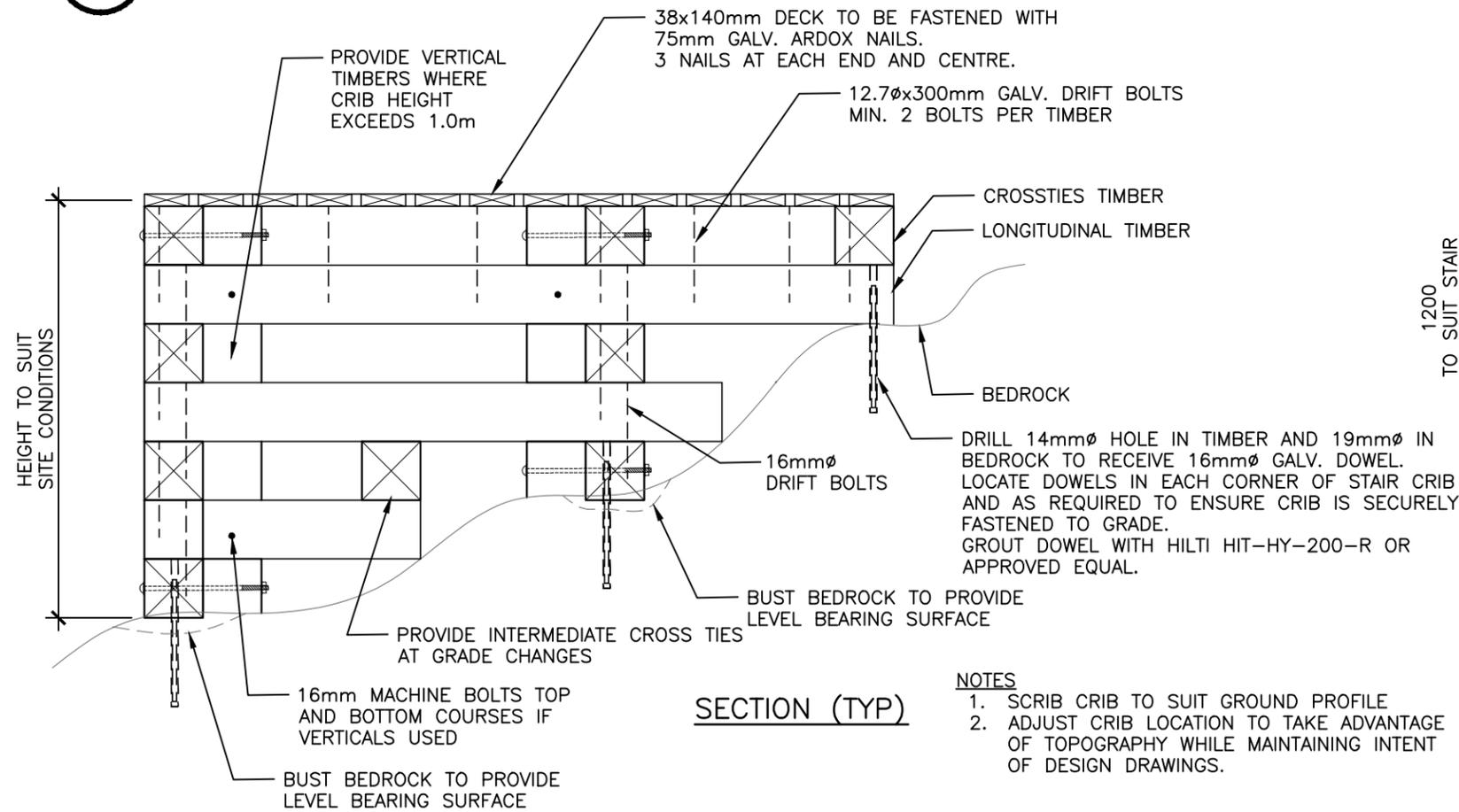
 <p>100 LEMARCHANT ROAD ST. JOHN'S, NL CANADA A1C 2H2 TEL (709) 738-2500 www.tractconsulting.com</p>	 <p>CLIENT</p>	<p>PROJECT</p> <p>NORTH HEAD TRAIL RECAPITILAZTION</p>	<p>DRAWING</p> <p>STAIR 22 SECTION</p>	<p>NO.</p>	<p>REVISION</p>	<p>MM/DD/YY</p>	<p>DRAWN</p> <p>CG</p>	<p>SCALE</p> <p>AS NOTED</p>
				<p>4</p>	<p>ISSUED FOR TENDER</p>	<p>10/27/2017</p>	<p>DATE</p> <p>OCT. 2017</p>	<p>SHEET</p>
				<p>3</p>	<p>ISSUED FOR 100% REVIEW</p>	<p>10/18/2017</p>	<p>DESIGNED</p> <p>GW</p>	<p>L114</p>
				<p>2</p>	<p>ISSUED FOR 99% REVIEW</p>	<p>10/10/2017</p>		
				<p>NO.</p>	<p>REVISION</p>	<p>MM/DD/YY</p>	<p>DRAWN</p> <p>CG</p>	<p>SCALE</p> <p>AS NOTED</p>



1 TIMBER RAILING (TYP.)
L115 1:20

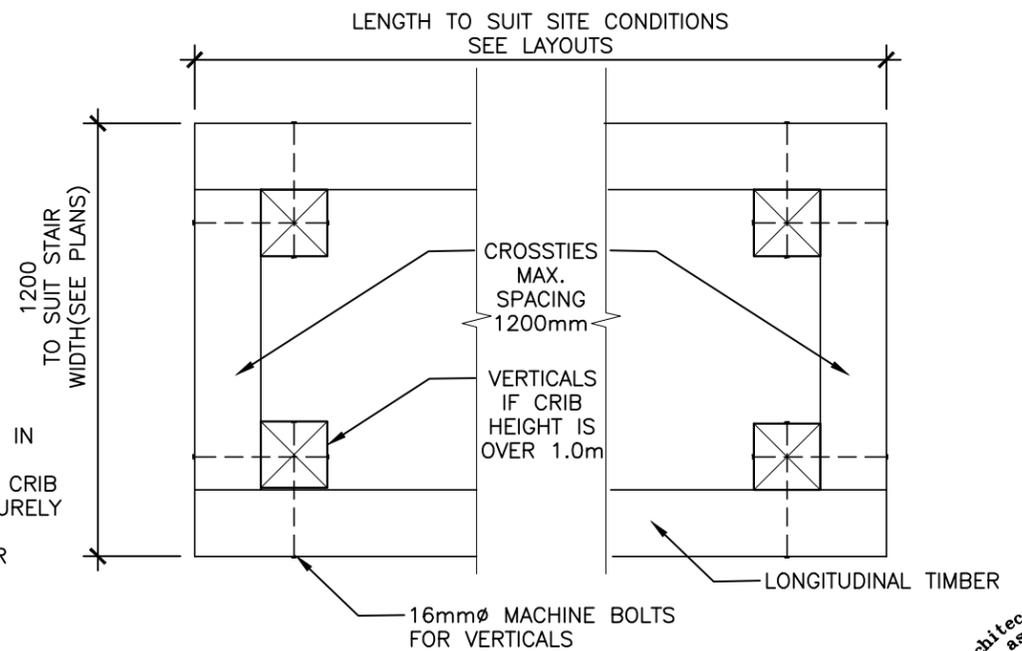


2 ANCHOR DETAIL (TYP.)
L115 1:20



SECTION (TYP)

- NOTES**
1. SCRIB CRIB TO SUIT GROUND PROFILE
 2. ADJUST CRIB LOCATION TO TAKE ADVANTAGE OF TOPOGRAPHY WHILE MAINTAINING INTENT OF DESIGN DRAWINGS.



PLAN (TYP)

Association des architectes-paysagistes des provinces atlantiques
Atlantic provinces association of landscape architects
G. Weiland
GERHARD WEILAND



100 LEMARCHANT ROAD
ST. JOHN'S, NL
CANADA A1C 2H2
TEL (709) 738-2500
www.tractconsulting.com

CLIENT



PROJECT

**NORTH HEAD TRAIL
REDEVELOPMENT**

DRAWING

TYPICAL DETAILS

NO.	REVISION	MM/DD/YY
4	ISSUED FOR TENDER	10/27/2017
3	ISSUED FOR 100% REVIEW	10/18/2017
2	ISSUED FOR 99% REVIEW	10/06/2017

DRAWN	CG	SCALE	1:20
DATE	OCT. 2017	SHEET	L115
DESIGNED	GW		