

WILSON PROPERTY

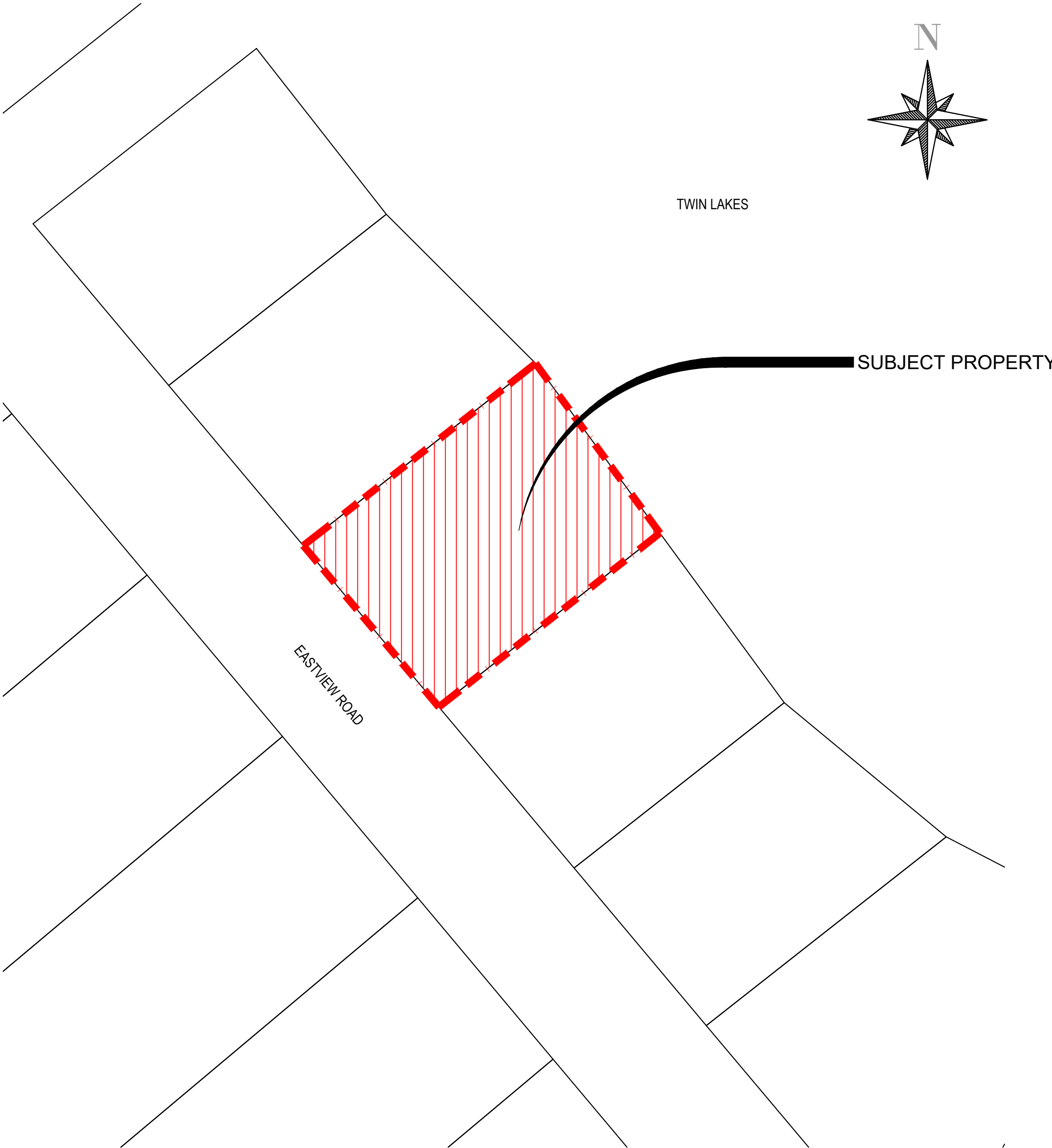
445 EASTVIEW ROAD

TWIN LAKES, BC

JUNE 16, 2021



KEY PLAN
SCALE 1 : 5000



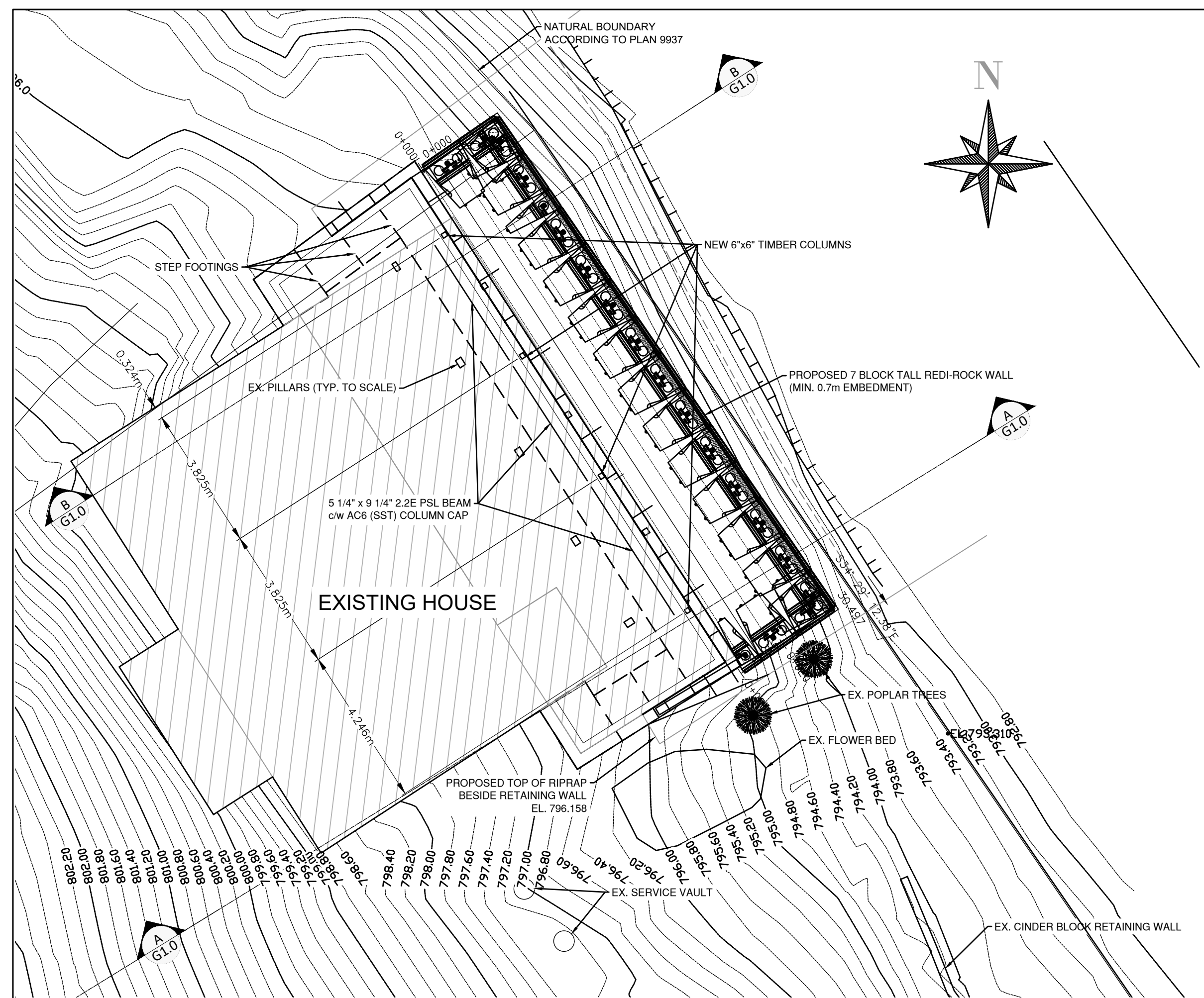
SITE PLAN
SCALE 1 : 500

LEGAL DESCRIPTION: LOT 4, BLOCK 2, PLAN KAP9937, DL 280,
SIMILKAMEEN DIV OF YALE LAND DISTRICT

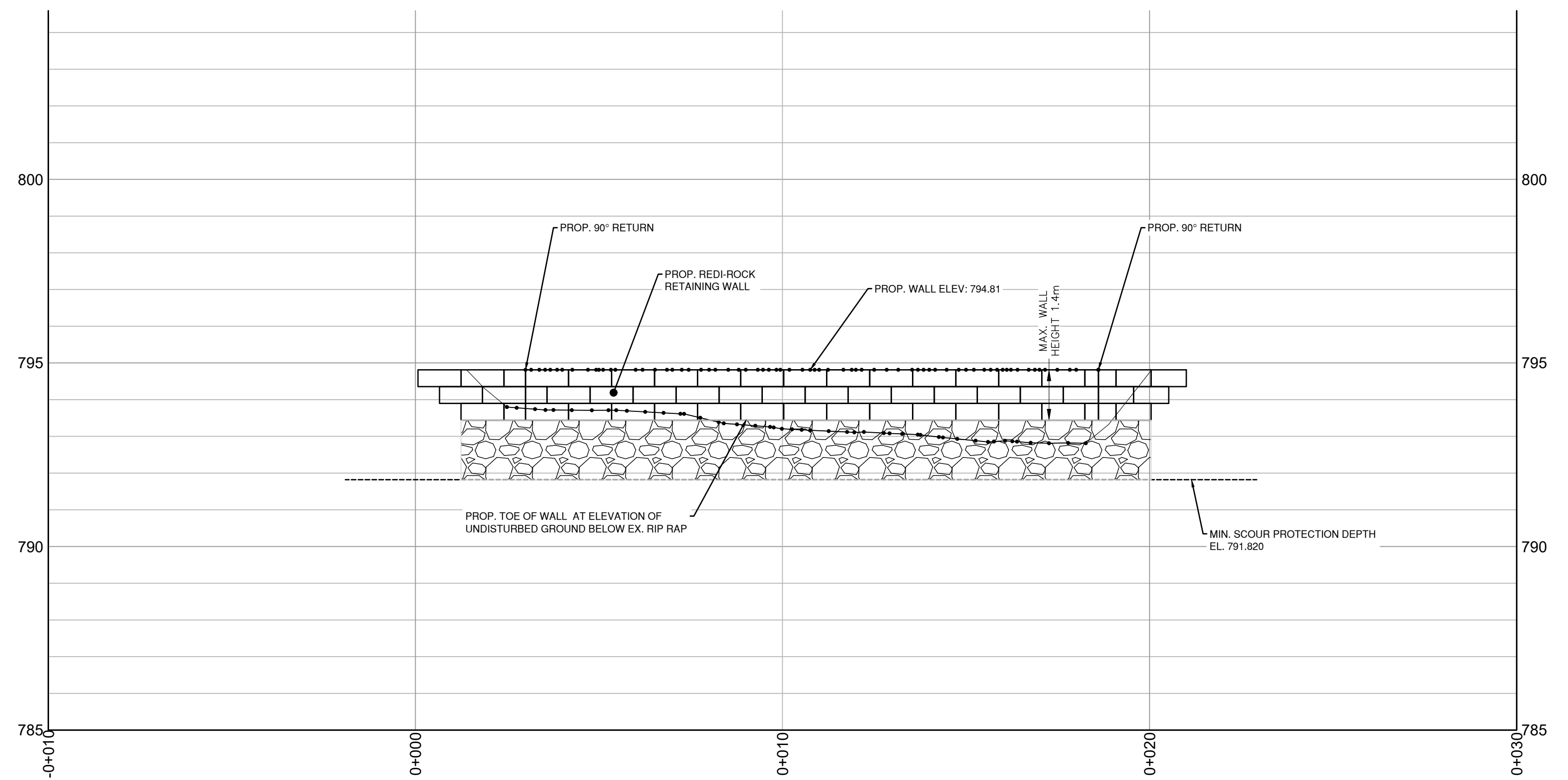
DRAWING LIST	
201096-G0.0	SITE & KEY PLAN
201096-G1.0	RETAINING WALL LAYOUT AND PROFILE
201096-G2.0	RETAINING WALL STANDARD DETAILS

FILE LOCATION: Y:\2021\2096 - 445 Eastview Rd - Pentagon\2021\2096-TITLE PLAN.dwg PRINTED ON: 6/17/2021 2:07 PM

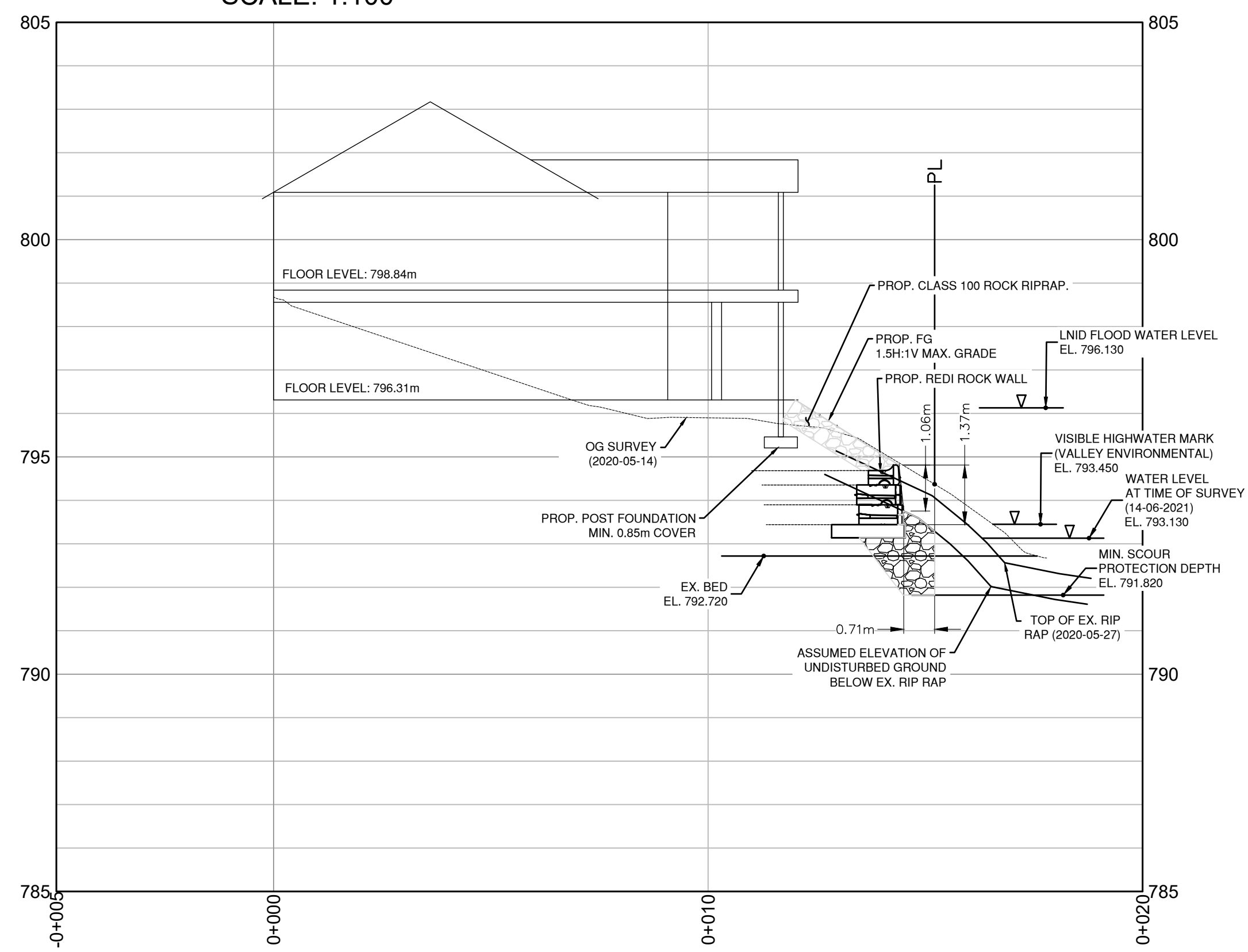
 #201-284 MAIN STREET PENTICTON, B.C. V2A 5B2 PHONE: 250-492-2227 www.ecora.ca	Drawing No.	Rev.No
	201096-G0.0	0



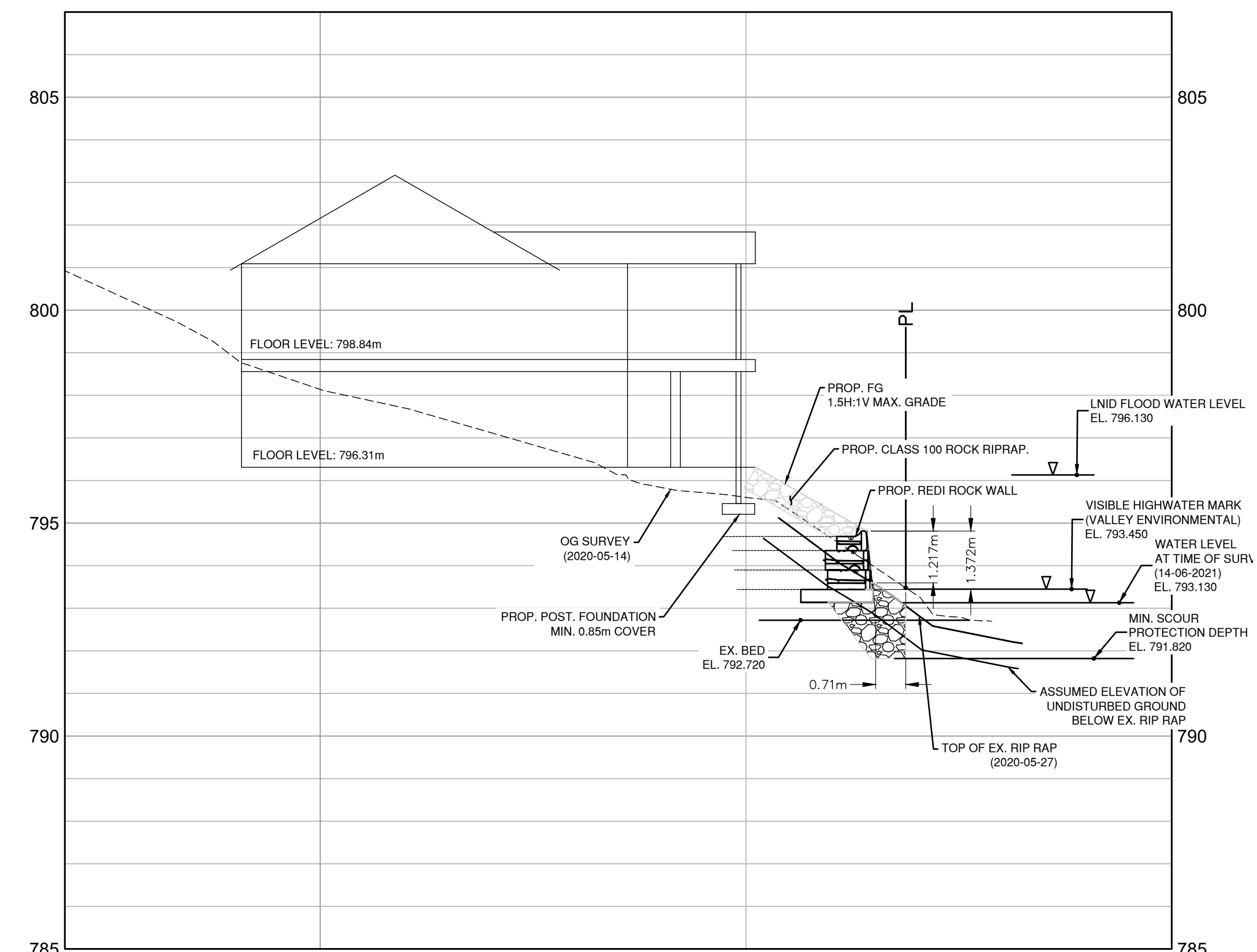
PLAN
SCALE: 1:100



WALL FACE PROFILE
SCALE: 1:100



SECTION A-A
SCALE: 1:100



SECTION B-B
SCALE: 1:100

NO.	DATE (YY/MM/DD)	DRN	REVISION	CHK'D
0	21/06/16	RT	ISSUED FOR CONSTRUCTION	BD

NO.	DATE (YY/MM/DD)	DRN	REVISION	CHK'D

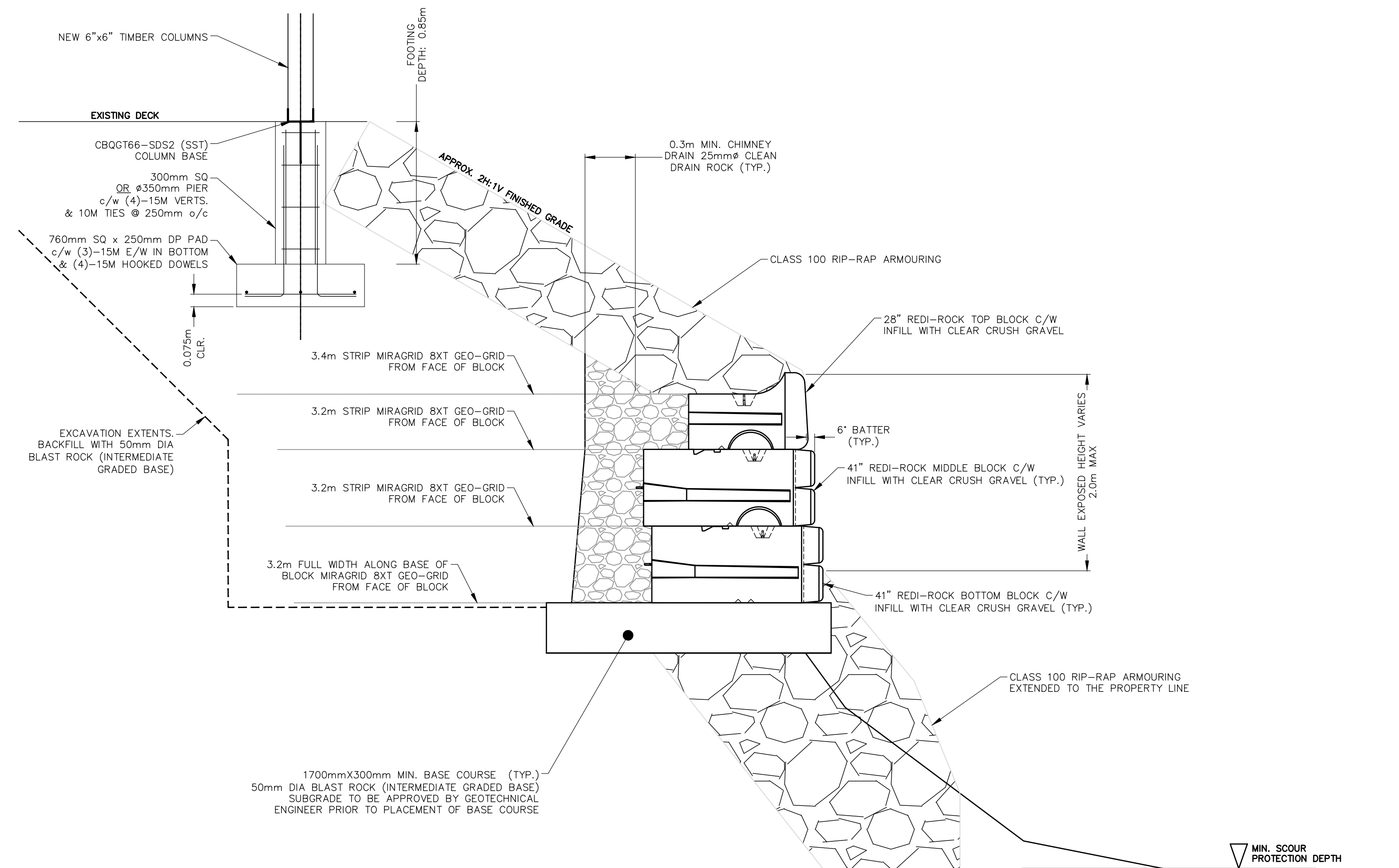
ecora[™]
 #201-284 MAIN STREET PENTICTON, B.C.
 V2A 5B2
 PHONE: 250-492-2227
 www.ecora.ca

DESIGN: BD
DRAWN: RT
CHECKED: BD
DATE: 21/04/07
SCALE: AS NOTED

WILSON PROPERTY
 455 EASTVIEW ROAD
 TWIN LAKES, BC
RETAINING WALL LAYOUT AND PROFILE

Drawing No. 201096-G1.0	Rev.No 0
----------------------------	-------------

FILE LOCATION: Y:\1-201096\201096 - 455 Eastview Road - Retaining Wall Design - Civil Design.dwg
 PRINTED ON: 6/17/2021 2:07 PM



RETAINING WALL TYPICAL DETAIL
SCALE: 1:20

1. GENERAL

- 1.1. IN THESE NOTES, THE SITE IS LOCATED AT 455 EASTVIEW ROAD, TWIN LAKES, B.C. AND THE OWNER REFERS TO THE LEGAL OWNER OF THIS PROPERTY.
- 1.2. IN THESE NOTES, THE GEOTECHNICAL ENGINEER IS ECORA ENGINEERING AND RESOURCE GROUP LTD., TEL: 250-492-2227
- 1.3. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS. ANY INCONSISTENCIES, ANOMALIES OR DISCREPANCIES WITH THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE GEOTECHNICAL ENGINEER AND CLIENT AND ANY FURTHER CONSTRUCTION DELAYED UNTIL THE PROBLEM IS SOLVED.
- 1.4. THE DESIGN OF THE REDI-ROCK RETAINING WALL IS BASED ON SOIL CONDITIONS OBSERVED DURING A SITE INVESTIGATION AND SUBSURFACE TESTING BY THE GEOTECHNICAL ENGINEER.
- 1.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SETTING OUT, CUTS AND EXCAVATION GRADES. ANY SITE MEASUREMENTS TAKEN BY THE GEOTECHNICAL ENGINEER WILL BE TO DETERMINE IF THE CONSTRUCTION MEETS THE DESIGN REQUIREMENTS. SUCH MEASUREMENTS WILL NOT CONSTITUTE ACCEPTANCE OF ANY SURVEY OR SETTING OUT WORK.
- 1.6. THE CONTRACTOR SHALL NOT ENCRoACH ON TO THE ADJACENT PROPERTIES DURING CONSTRUCTION WITHOUT PRIOR WRITTEN PERMISSION FROM THE OWNERS OF THE ADJACENT PROPERTIES AND THE OWNER OF THE PROJECT.
- 1.7. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES THAT MAY BE DAMAGED BY RETAINING WALL CONSTRUCTION. ANY CONFLICT WITH EXISTING UNDERGROUND UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE GEOTECHNICAL ENGINEER.

- 1.8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HOARDING, BARRIERS AND STOCKPILES. THE HOARDING SHALL MEET THE REQUIREMENTS OF THE OWNER AND WORKSAFEBC.

2. MATERIALS

- 2.1. WALL BLOCKS
THE FASCIA FOR THE RETAINING WALL SHALL BE STANDARD REDI-ROCK. ANY ALTERNATIVE SEGMENTAL INTERLOCKING BLOCK MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO SITE. DAMAGED BLOCKS WILL NOT BE ACCEPTED.
- 2.2. GEOGRID
GEOGRID REINFORCEMENT SHALL BE AS SHOWN ON THESE DRAWINGS. ALTERNATIVE GEOGRID MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO SITE.
- 2.3. BACKFILL
THE COMPACTED BACKFILL FOR THE RETAINING WALL SHALL CONSIST OF FREE DRAINING 50mm DIA BLAST ROCK (INTERMEDIATE GRADED BASE), <10% FINES, COMPACTED TO 100% SPMD PLACED IN MAX LIFTS OF 300mm. TO BE APPROVED BY THE GEOTECHNICAL ENGINEER AND EACH LIFT TESTED WITH IN-SITU DENSITY TESTING.
- 2.4. DRAINAGE
DRAINAGE SHALL CONSIST OF A DRAINAGE LAYER AND DRAIN PIPES AS SHOWN ON THESE DRAWINGS. OVERLAND AND ROOF LEADER DRAINAGE SHALL BE DIRECTED AWAY FROM THE RETAINING WALLS.

3. CONSTRUCTION

- 3.1. EXCAVATION SLOPES
3.1.1. TEMPORARY EXCAVATION SLOPES REQUIRED TO ACHIEVE DESIGNED WALL SUBGRADE ELEVATIONS SHALL BE INCLINED AT 1 HORIZONTAL: 1 VERTICAL (1H:1V). STEEPER TEMPORARY SLOPE CUTS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER IN WRITING PRIOR TO WORKERS ENTERING EXCAVATION.
- 3.1.2. ANY GROUNDWATER SEEPAGE IN THE TEMPORARY SLOPE CUTS SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER. THE GROUNDWATER SEEPAGE MAY RESULT IN FLATTER TEMPORARY SLOPE CUTS OR REQUIREMENT FOR ADDITIONAL SUPPORT.
- 3.1.3. SURFACE WATER SHALL BE DIRECTED AWAY FROM THE TEMPORARY SLOPE CUTS BY THE CONTRACTOR IN A CONTROLLED MANNER TO LIMIT THE SLOPE EROSION BELOW THE SITE. THE CONTRACTOR SHALL BE SEDIMENT CONTROL MEASURES.
- 3.2. SUBGRADE PREPARATION
3.2.1. THE SUBGRADE FOR THE RETAINING WALL SHALL CONSIST OF INORGANIC GRANULAR SOIL OR STRUCTURAL FILL IN ACCORDANCE WITH SECTION 2.3 OF THESE NOTES. THE NATIVE SUBGRADE/BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 100% OF MATERIAL'S SPMPD.
3.2.2. THE EXPOSED NATIVE SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ANY FILL.
- 3.3. GEOGRID PLACEMENT
3.3.1. THE GEOGRID SHALL BE PLACED AT ELEVATIONS AND LENGTHS SHOWN ON THESE DRAWINGS.
3.3.2. THE GEOGRID SHALL BE PLACED WITH THE PRINCIPAL STRENGTH AXIS PERPENDICULAR TO THE WALL FACE.
- 3.3.3. THE GEOGRID SHALL BE TENSIONED BY HAND AND SECURED TO THE GROUND WITH STAKES SO THAT NO WAVES EXIST. IMPROPERLY TENSIONED GEOGRID OR WAVES IN GEOGRID MAY RESULT IN RETAINING WALL OUTWARD MOVEMENT.
- 3.3.4. NO JOINTS IN THE GEOGRID SHALL BE ALLOWED IN THE PRINCIPAL STRENGTH DIRECTION. PLACEMENT OF ADJACENT GEOGRID SHOULD BE SIDE-BY-SIDE WITHOUT OVERLAP.
- 3.3.5. THE BACKFILL WITHIN THE REINFORCED ZONE SHALL BE PLACED SO THAT IT DOES NOT CAUSE WAVES OR FOLDS IN THE GEOGRID. THE PLACEMENT OF BACKFILL SHOULD START NEAR THE FACE OF THE WALL AND PROGRESS TOWARDS THE END OF THE GEOGRID.
- 3.3.6. THE COMPACTION EQUIPMENT SHALL RUN PARALLEL TO THE WALL FACE. COMPACTION SHOULD START NEAR THE WALL FACE AND PROCEED OUTWARD. ONLY LIGHT-WEIGHT COMPACTION EQUIPMENT SHALL BE USED WITHIN 1.5 M FROM THE WALL FACE.
- 3.3.7. CONSTRUCTION EQUIPMENT SHALL NOT TRAVEL OVER EXPOSED GEOGRID. THE GEOGRID MUST BE COVERED WITH MIN. 150 MM OF BACKFILL MATERIAL BEFORE EQUIPMENT CAN OPERATE OVER GEOGRID. SUDDEN STOPS AND TURNS SHALL BE AVOIDED TO MINIMIZE THE POTENTIAL FOR DEVELOPING WAVES IN THE GEOGRID.

- 4.3. THE GEOTECHNICAL ENGINEER IS TO HAVE ACCESS TO THE SITE WHENEVER REQUIRED AND SHALL DETERMINE WHEN A SITE VISIT BY A TECHNICIAN, STAFF ENGINEER OR A SENIOR ENGINEER IS REQUIRED.

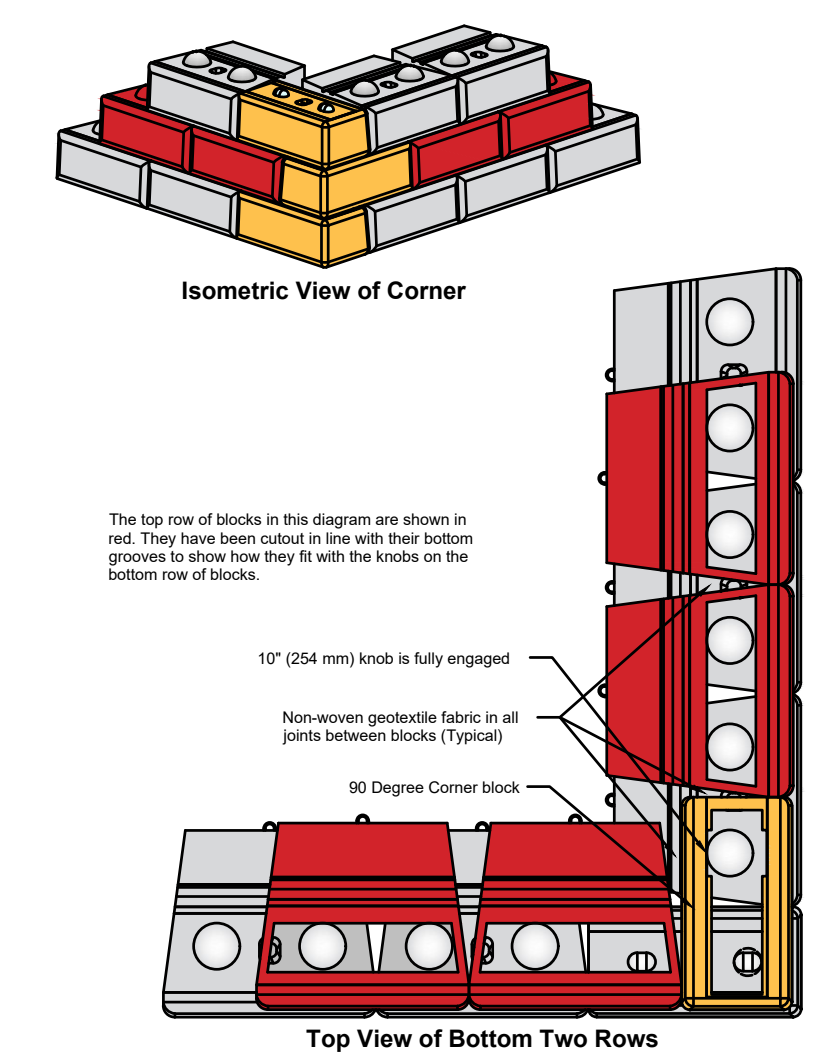
- 4.4. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE CONSTRUCTION AT REGULAR INTERVALS.

- 4.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING THE SITE REVIEWS BY THE GEOTECHNICAL ENGINEER. A MINIMUM 24 HOURS NOTICE IS REQUIRED. THE GEOTECHNICAL ENGINEER SHALL NOT BE RESPONSIBLE FOR PERFORMANCE OF THE RETAINING WALL IF THE GEOTECHNICAL ENGINEER IS NOT RETAINED TO CONDUCT SITE REVIEWS AT REGULAR INTERVALS.

4. CONSTRUCTION REVIEW

- 4.1. TEMPORARY SLOPE CUT RECOMMENDATIONS SHALL BE CONFIRMED BY THE GEOTECHNICAL ENGINEER WHEN THE ACTUAL SOIL CONDITIONS ARE EXPOSED DURING EXCAVATION.
- 4.2. SITE REVIEWS BY THE GEOTECHNICAL ENGINEER ARE ESSENTIAL TO CONFIRM THAT THE CONSTRUCTION OF THE RETAINING WALL CONFORMS TO THE DESIGN DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING THE SITE

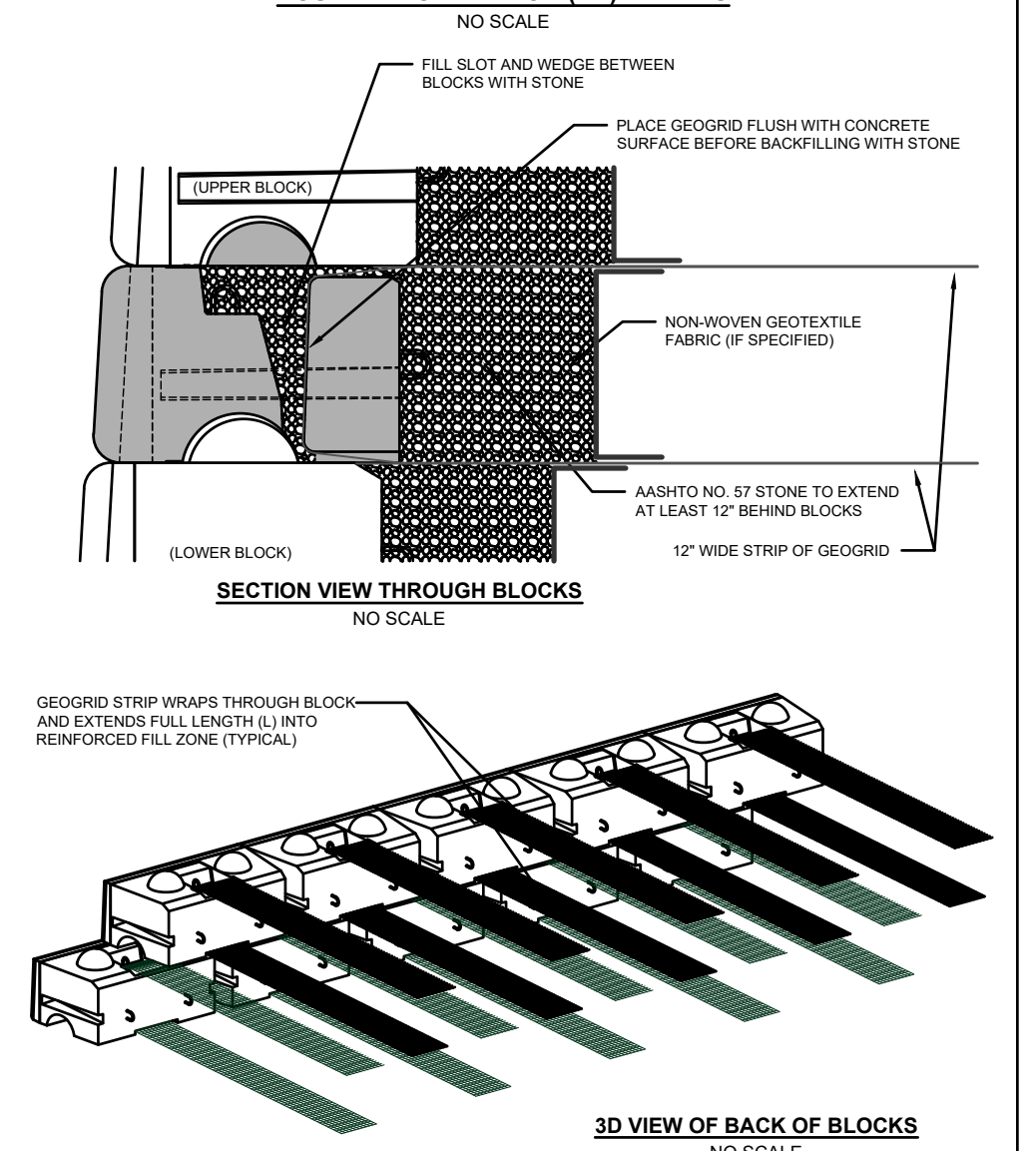
90° Outside Corner



90° Outside Corner Detail
90° Corner Block Option

DESIGNED BY: JRJ	DATE: 17MAR2016	1 of 1
APPROVED BY: JRJ		

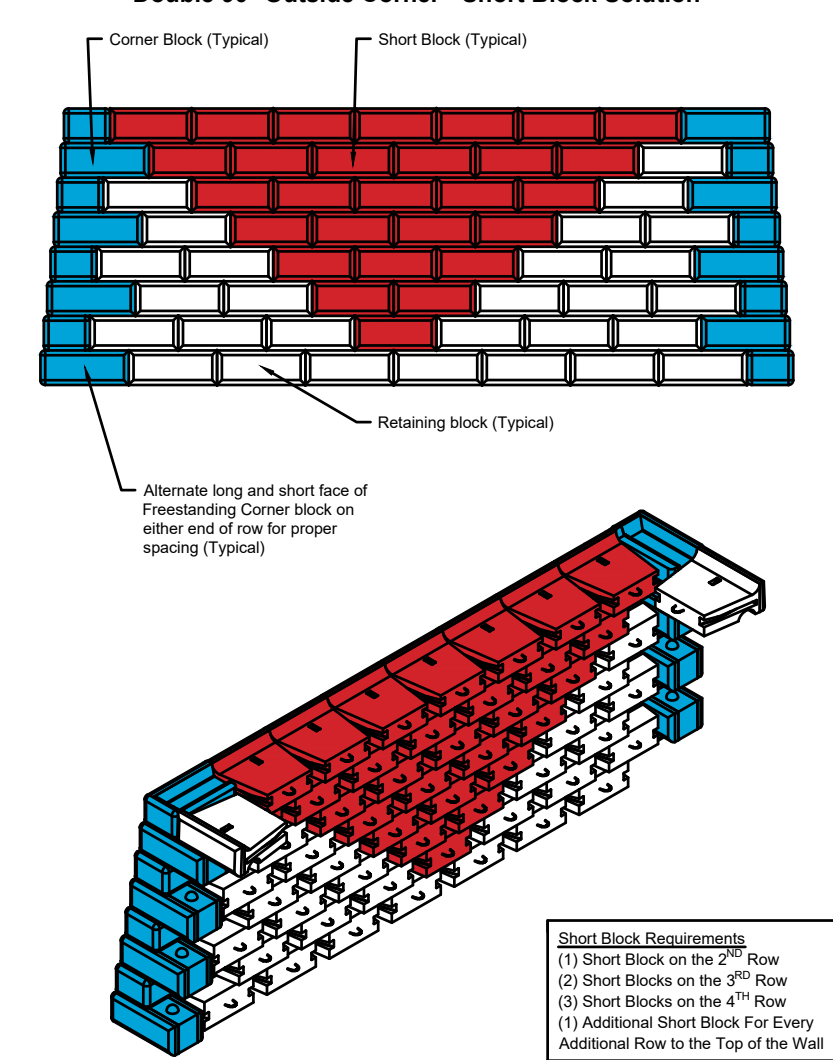
POSITIVE CONNECTION (PC) DETAILS



Positive Connection Detail

DESIGNED BY: JRJ	DATE: 06-22-2015	1 of 1
APPROVED BY: JRJ		

Double 90° Outside Corner - Short Block Solution



Double 90° Outside Corner Short Block Solution

DESIGNED BY: JRJ	DATE: 06-22-2015	1 of 1
APPROVED BY: JRJ		

REDI-ROCK® TYPICAL DETAILS
SCALE: NOT TO SCALE

DRAWINGS FROM REDI-ROCK®
"RETAINING WALL DETAILS -
TYPICAL DETAILS"

NO.	DATE (YY/MM/DD)	DRN	REVISION	CHK'D
0	21/06/16	RT	ISSUED FOR CONSTRUCTION	BD

#201-284 MAIN STREET PENTICTON, B.C.
V2A 5B2
PHONE: 250-492-2227
www.ecora.ca

DESIGN: BD
DRAWN: RT
CHECKED: BD
DATE: 21/04/07
SCALE: AS NOTED

WILSON PROPERTY
455 EASTVIEW ROAD
TWIN LAKES, BC
RETAINING WALL STANDARD DETAILS

Drawing No. 201096-G2.0	Rev.No 0
----------------------------	-------------