

ALTO MAIPO**OWNER'S INSTRUCTION**

Section 2.29

PHAM-PLN12-INS-0003

Contract: ☐ AM-CO610/620B ☒ AM-CO630/620A SI 6355/ N° 01057

Scope Segment Description: L1 Regrouting Scope Segment ID:

Location: TM 01584 (face 01592.3) Time for Compliance: IMMEDIATELY

Contractor shall immediately proceed with the Work described below, in accordance with the terms and conditions of the Contract. This instruction is limited to maximum of 1000 UF or USD \$ 50,000., and without impact on the lump sums or schedule (except for Equivalent Times in the BOQ).

Instruction:

The contractor is here with instructed to carry out chemical pregrouting, following the guidelines of attachment sheet and SI-6355-01013.

Owner estimate of impact is: Per Units in BOQ ☐ ; or cost ; &/or Time

If Contractor believes that this instruction constitutes a Change, Contractor shall promptly provide Notice according to Section 11 of the Contract.

Contractor comments (if any): Subjected to further comments

Issued by		Received by Contractor	
Name:	Andrés Tapia Pardo	Name:	Miguel Albornoz
Sign:		Sign:	
Designation:	Geologist	Designation:	Geologist
Date:	11-08-16	Date:	11-08-2016
Time:	4:12	Time:	04:12

Imp. San Pedro - F. 22556 6665 - (4077)

(original): Contractor

Grouting Instruction L1 FIRST GROUT FAN

Tunnel	L1 (ø=6.9 m)
Instruction N°	SI-1013 / 1057

Chainage	0+592.3 (face) - 0+584.0
Total Inflow face (L/s)	-
Total Inflow Probe holes (L/s)	15.5
Water pressure measured	15

1- DRILL HOLES FROM #01 TO #12 IN SEQUENTIAL ORDER.

2- MEASURE WATER INFLOW AND PRESSURE IN ALL HOLES.

3- GROUT ALL HOLES AS INDICATED IN SI-1013.

Position of Grout holes:

Design Mix (Type A,B,C, D or E)	D / E
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GEOFOAM / PU

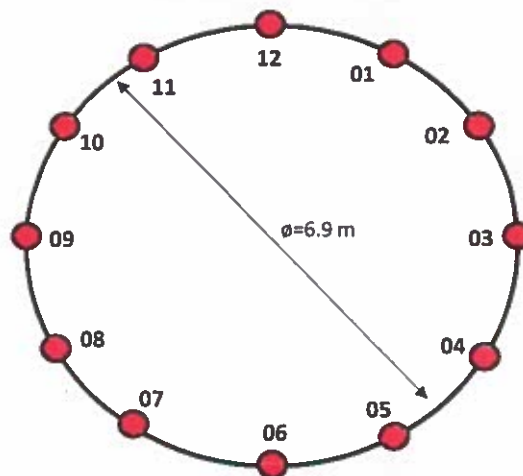
Closure criteria

CLOSURE CRITERIA AS INDICATED IN SI-1013

Instructed by:	Andrés Tapia Pardo
Instruction date:	11-08-2016

HOLES

N° of Grout holes	12
Grout holes length (m)	30
Grout hole angle ref Tunnel axis	6° - 10°



NOTES:

1- If great discharges occurs (>10 L/s), stop drilling and grout.

2- Postgrouting exploratory holes shall be evaluated by OE/Strabag.

Subjected to further comments

STRABAG Miguel Albornoz Mig Albo
Name Signature

SAM Andrés Tapia P. [Signature]
Name Signature