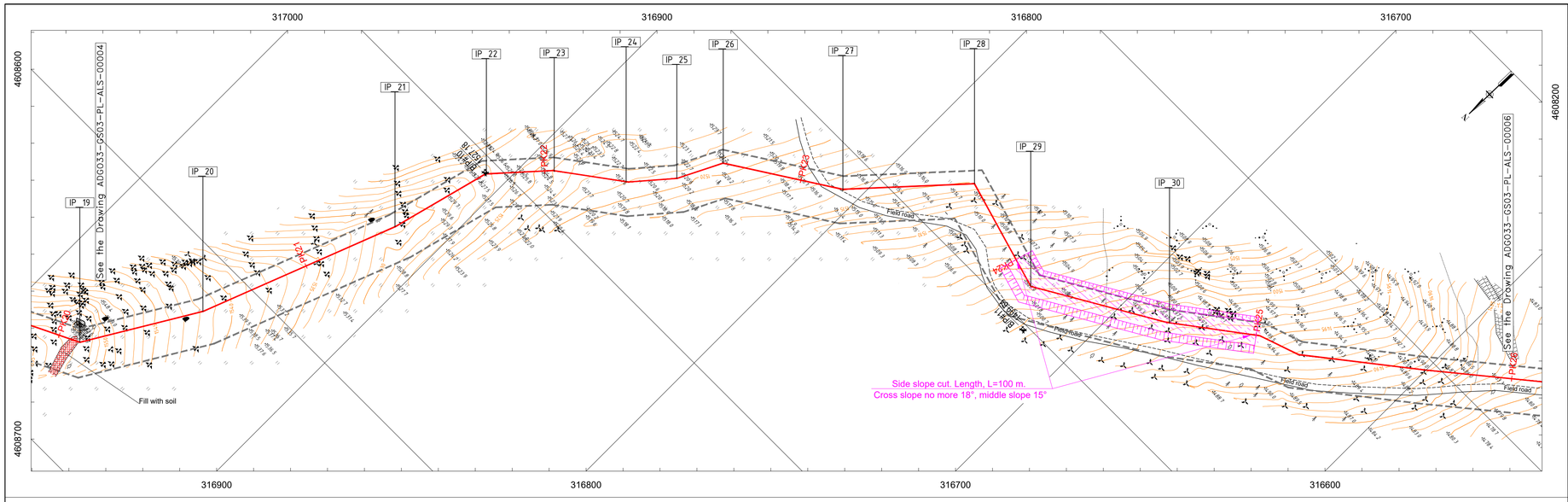



| IPs | X | Y | Angle |
|---|---|---|---|
| | 316971.89 | 4608660.63 | 33° |
| IP_20 | 316946.90 | 4608618.95 | 10° |
| IP_21 | 316917.82 | 4608544.14 | 6° |
| IP_22 | 316907.57 | 4608505.30 | 27° |
| IP_23 | 316890.15 | 4608486.07 | 11° |
| IP_24 | 316866.78 | 4608468.89 | 13° |
| IP_25 | 316854.58 | 4608454.76 | 14° |
| IP_26 | 316846.15 | 4608438.09 | 31° |
| IP_27 | 316806.82 | 4608412.91 | 15° |
| IP_28 | 316772.60 | 4608375.66 | 64° |
| IP_29 | 316729.63 | 4608388.18 | 46° |
| IP_30 | 316683.37 | 4608361.37 | 8° |

1. After the construction material is prepared, the pipeline axis should be planned and specified by the pipeline profile.

2. Deepening the pipeline (distance from the surface of the pipe to the upper pipe) was at least 0.8 m (0.7 m in the rocky ground).

## შენიშვნები / NOTES

1. კოორდინატთა სისტემა / COORDINATE SYSTEM
   WGS_1984_UTM_Zone_38N
   Projection: Transverse_Mercator
   Linear Unit: Meter
   Datum: KRONSTADT (BALTIC SEA)

## პირობითი აღნიშვნა / LEGEND

- Projected Gas Pipeline
- Existing Gas Pipeline
- ROW
- Optical fiber cable
- Existing Water Pipeline

- 5/1 - Bore pit (B/P)
- 7/2 - Borehole (B/H)

- IP - Intersection point
- AM - Aerial marker post
- MP - Marker post
- CP - Cathodic protection
- AM/CP - Cathodic protection/Aerial marker post
- AV - Vertical Angle
- AH - Horizontal Angle
- AJ - Joint Angle
- A - Angle
- CB - Cold Bend
- HB - Hot Bend
- PTL - Power transmission line
- WP - Water pipeline
- GP - Gas pipeline
- OP - Oil pipeline
- UOC - Fiber-Optic cable
- Level of underground water
- Drainage

## ადმინისტრაციული ინფორმაცია / ADDITIONAL INFORMATION

1. The drawing is read from the left to the right.
2. Dimensions on the drawing are specified in meters.
3. IP 0° does not exist.
4. Standard drawing of Concreted Pipe DN 300: #ADGO33-GS03-PL-STD-00001
5. Concreted Slab 1000x500x150 mm: #ADGO33-GS03-PL-STD-00002
6. Protective unit of underground cable on the pipeline crossing point: #ADGO33-GS03-PL-STD-00003
7. Marker Post: #ADGO33-GS03-PL-STD-00004
8. Pipeline Marker Post: #ADGO33-GS03-PL-STD-00005
9. Joint drawing of control - measurement point (CP) and marker post (AM): #ADGO33-GS03-PL-STD-00006
10. Drainage: #ADGO33-GS03-PL-STD-00007
11. Trench Breaker: #ADGO33-GS3-PL-CPR-00008.
12. Valves: #ADGO33-GS03-PL-DTL-00001, 00003, 00005, 00012.
13. Fencing and foundation of valves: #ADGO33-GS03-PL-DTL-00002, 00004, 00006, 00011, 00013.
14. Schematic drawings: #ADGO33-GS03-PL-SCM-00001 - 00004.

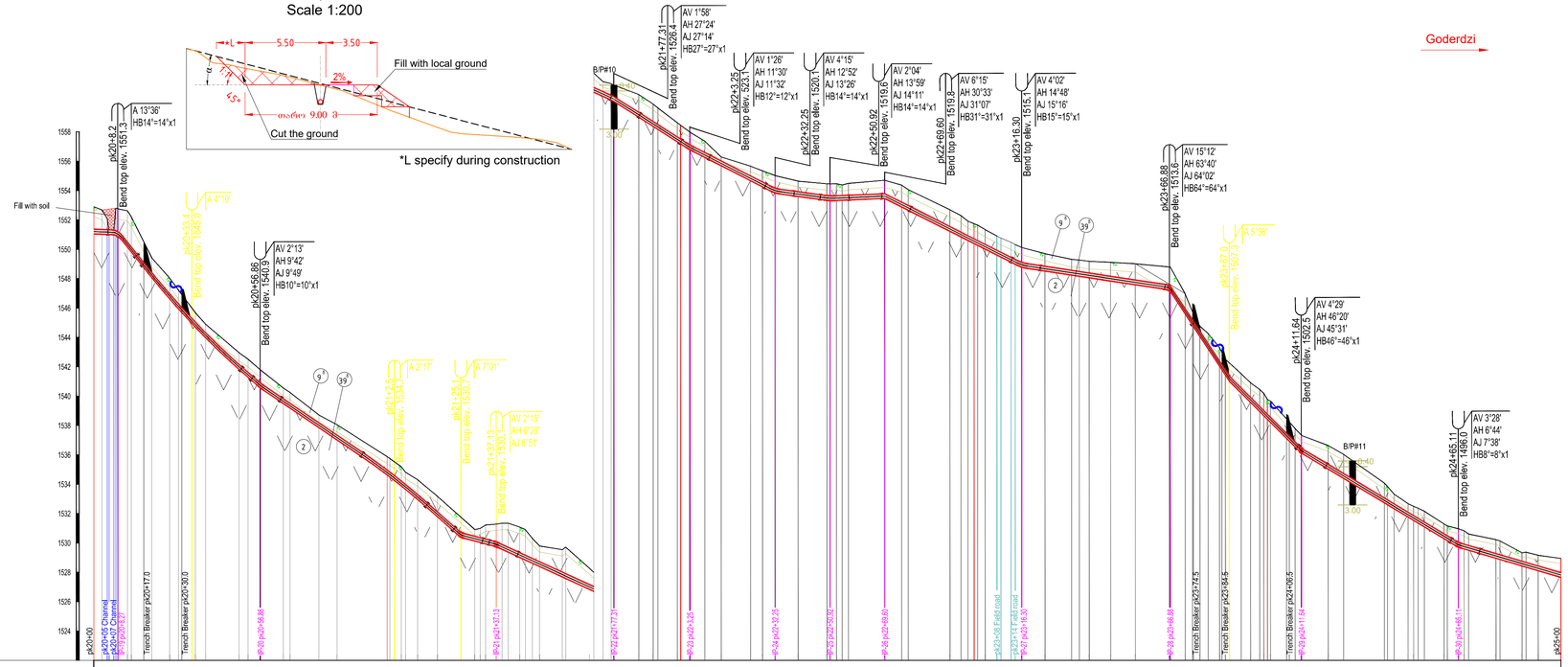
## გეოლოგია / GEOLOGY

0. (9$^{V}$) Soil layer, with vegetative roots and basic rocks broken stones inclusions, which is appropriated to the II group in accordance with exploitation complicacy by CNaR (construction norms and rules) CHuΠ IV-5 82.
1. (8$^{d}$) Clay-brownish, with difficult plastic consistence, without inclusions, carbonatic, exploitation complicacy, III group by CNaR IV-5 82, Ro=0,25 MPa.
2. (39$^{g}$) Rocks of andesite-basalt and crushed stone with aggregate of difficult plastic consistence loam (up to 35%). Exploitation complicacy III group, Ro=0,45 MPa.
3. (39$^{f}$) Tuf-breccias, tuf-sandstone, tuf-argillites and in certain places rocks of andesite-basalt and crushed stone with aggregate of difficult plastic consistence loam (up to 35%). Exploitation complicacy III group, Ro=0,4 MPa
4. (39$^{f}$) Coloured, firm, steady, tuf-sandstones rocks and crushed stone with aggregate of difficult plastic consistence loam (up to 35%). Exploitation complicacy- III group, Ro=0,45 MPa.

* In certain section, between mining workings are fixed naked rocks, which in accordance with exploitation complicacy, by CNaR IV-5-82 are of VI-VII group. For this section for ditch excavation (may be) shall be necessary use of so-called "woodpecker".

Construction of side slope cut, when 12°≤α≤18°.
Scale 1:200




Scale:
Hor. 1:1000
Vert. 1:200
Geolog. 1:200

| | |
|---|---|
| Piket (PK) | 20 21 22 23 24 25 |
| Ground Elevation , m | 1552.90 1552.95 1552.95 1552.75 1541.77 1538.87 1531.28 1527.18 1524.45 1523.97 1521.00 1520.44 1520.70 1517.74 1516.76 1516.47 1516.12 1513.58 1505.76 1503.31 1498.85 1498.94 |
| Slope / Distance, m | 0.08 / 8.2; 0.220 / 25.2; 0.176 / 23.3; 0.135 / 45.8; 0.177 / 22.6; 0.050 / 12.1; 0.092 / 40.1; 0.127 / 25.9; 0.100 / 29.1; 0.007 / 18.7; 0.055 / 18.7; 0.101 / 46.6; 0.030 / 50.4; 0.304 / 20.4; 0.220 / 24.5; 0.120 / 53.5; 0.060 / 35.0 |
| Depth of Trench, m | 1.9 0.9 1.4 1.1 2.5 2.5 1.4 1.1 1.0 0.9 1.1 1.2 1.2 1.1 1.1 0.9 1.0 1.2 1.3 1.3 1.4 1.4 0.8 1.3 2.0 2.1 2.1 1.9 2.1 1.4 1.0 1.1 1.0 1.5 1.5 1.3 1.2 1.1 0.6 1.0 1.1 1.2 1.0 1.1 1.0 1.2 1.5 1.4 1.5 1.3 1.4 1.3 1.3 1.3 1.3 1.2 1.1 1.1 1.1 1.1 1.3 1.4 1.6 1.3 0.8 0.7 1.0 1.1 1.2 1.3 1.3 1.4 1.5 1.3 1.2 1.6 1.6 1.3 1.0 0.9 0.9 1.1 1.0 1.3 1.1 1.3 1.3 0.9 1.1 1.3 |
| Row Width, m | 18 m |
| Category / Wall Thickness and Dia | IV / 323.9 x 7.9 API 5L |
| Coating | Factory, 3LPE min 2.88mm, L=504.0 m |
| Pipeline Protection/Pipe Weights (type, quantity and step(distance)) | +28.0; +83.0; +3.0 |
| Casing Dia xWT, mm / Length, m | Drainage, 1 pcs See the Drawing ADGO33-GS03-PL-STD-00008; Drainage, 2 pcs See the Drawing ADGO33-GS03-PL-STD-00008 |
| Valve | |
| Pipeline Marks | AM/CP; AM; MP; AM; AM; AM |
| Above & Underground Communication | |
| Trench Breaker | +17.0; +30.0; +74.5; +95.5 |
| Reference Drawing | Trench Breakers, 2pcs See the drawing ADGO33-GS03-PL-STD-00007; Trench Breakers, 3pcs See the drawing ADGO33-GS03-PL-STD-00007 |

| | | | |
|---|---|---|---|
| თანამდებობა POSITION | გვარი, სახელი NAME | | ხელმოწ. SIGN |
| Approved by | T. Javakhishvili | | |
| Checked by | K. Teliashvili | | |
| Checked by | S. Kirakosovi | | |
| Processed by | Ts. Maghlakelidze | | |
| Drawn by | A. Farii | | |
| რევ. № Rev.No | A01 | C01 | |
| თარიღი DATE | 28/09/18 | 22/01/19 | |

საქართველოს ნავთობისა და გაზის კორპორაცია
*Georgian Oil & Gas Corporation*

"Adigeni - Goderdzi" Gas Main Pipeline Construction Project

Gas pipeline area pk 20+00 - pk 25+00
Plan and profile

მასშტაბი(A1): / SCALE (A1): Hor.1:1000; Vert. 1:200
კოო. 1:1000; ვერტ. 1:200

| ნახაზის № /DCC No: | ფურცელი SHEET | რევ. № Rev.No |
|---|---|---|
| ADGO33-GS03-PL-ALS-00005 | 5 (66) | C01 |