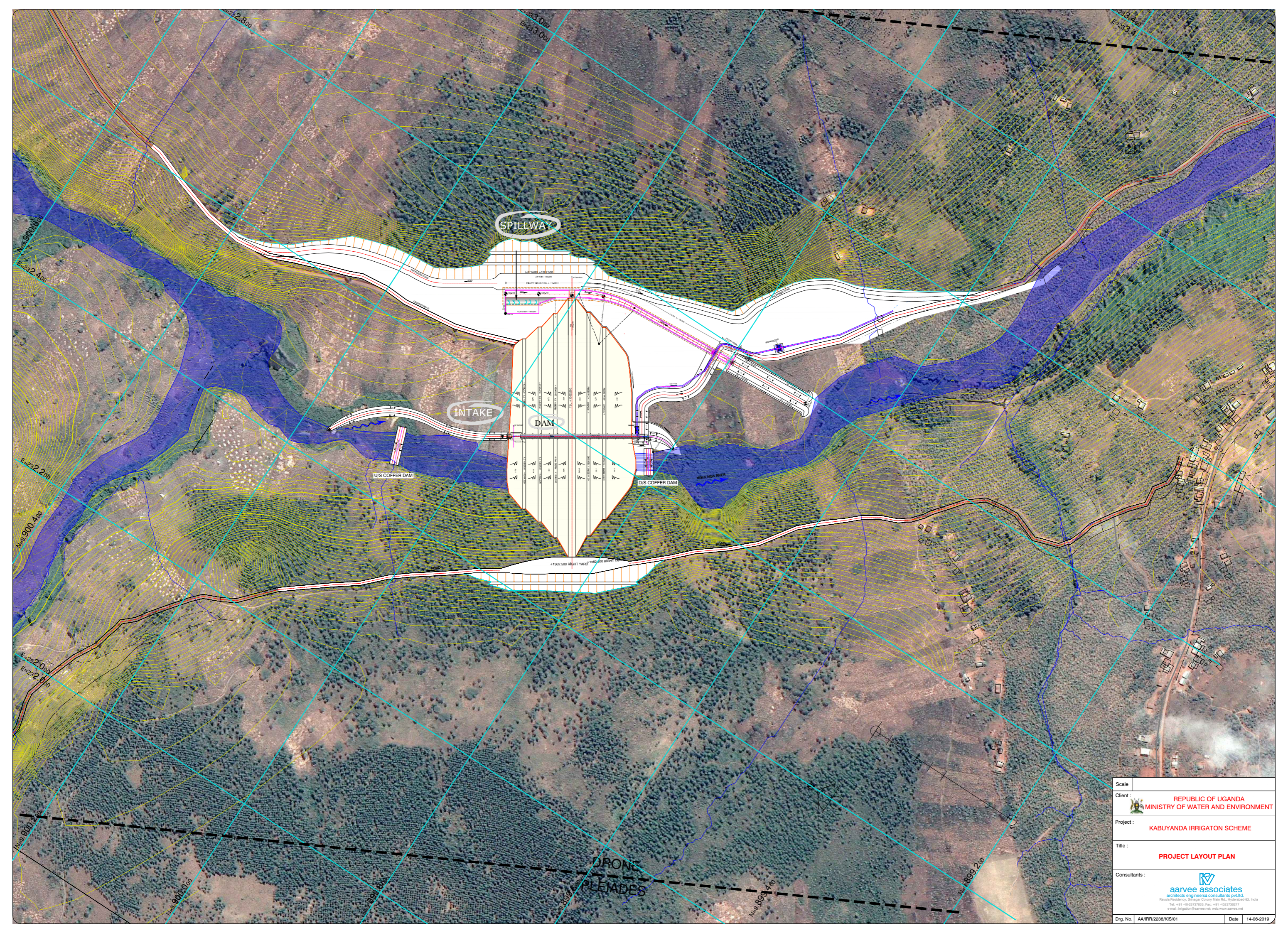

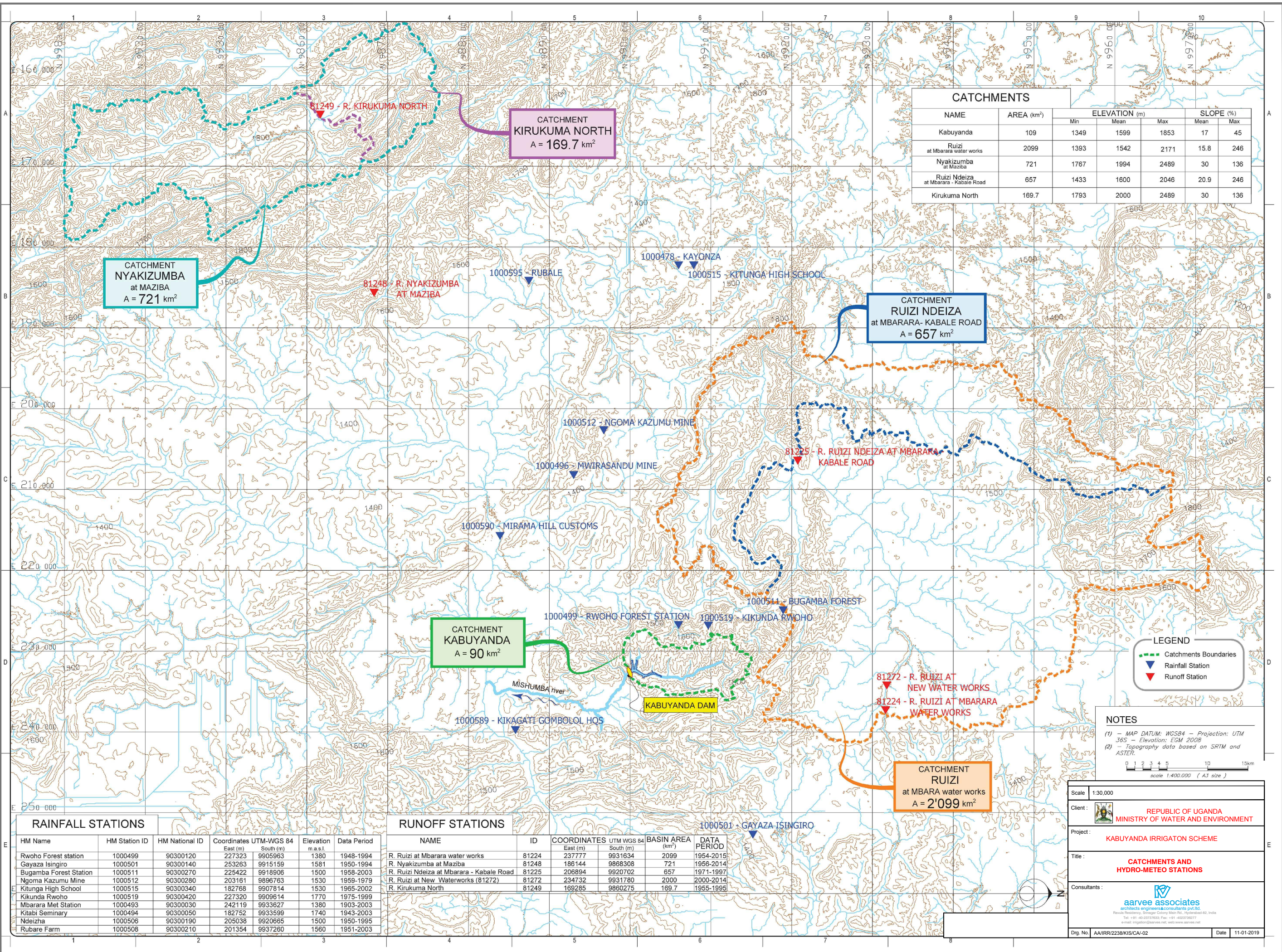


| | |
|-------------|--|
| Scale | 1:30,000 |
| Client | REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project | KABUYANDA IRRIGATION SCHEME |
| Title | PROJECT LOCATION |
| Consultants | aarvee associates architects engineers & consultants pvt ltd. Revilla Residency, Connaught Place, New Delhi-110028, India Tel: +91-46-23731633, Fax: +91-4623736277 e-mail: irrigation@aarvee.net, web: www.aarvee.net |
| Dwg. No. | AA/IRR/2238/KIS/02 |
| Date | 26-02-2019 |



| | |
|---------------|---|
| Scale | |
| Client : | REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | PROJECT LAYOUT PLAN |
| Consultants : |  aarvee associates <small>architects engineers consultants pvt.ltd.</small> <small>Revula Residency, Singaperumal Colony Main Rd., Hyderabad-62, India</small> <small>Tel: +91-40-2372933 Fax: +91-40-2372977</small> <small>e-mail: arigation@aarvee.net, web: www.aarvee.net</small> |
| Dwg. No. | AA/IRR/2238/KIS/01 |
| Date | 14-06-2019 |



| NAME | AREA (km ²) | ELEVATION (m) | | | SLOPE (%) | |
|---------------------------------------|-------------------------|---------------|------|------|-----------|-----|
| | | Min | Mean | Max | Mean | Max |
| Kabuyanda | 109 | 1349 | 1599 | 1853 | 17 | 45 |
| Ruizi at Mbarara water works | 2099 | 1393 | 1542 | 2171 | 15.8 | 246 |
| Nyakizumba at Maziba | 721 | 1767 | 1994 | 2489 | 30 | 136 |
| Ruizi Ndeiza at Mbarara - Kabale Road | 657 | 1433 | 1600 | 2046 | 20.9 | 246 |
| Kirukuma North | 169.7 | 1793 | 2000 | 2489 | 30 | 136 |

CATCHMENT NYAKIZUMBA at MAZIBA
A = 721 km²

CATCHMENT KIRUKUMA NORTH
A = 169.7 km²

CATCHMENT RUIZI NDEIZA at MBARARA- KABALE ROAD
A = 657 km²

CATCHMENT KABUYANDA
A = 90 km²

CATCHMENT RUIZI at MBARA water works
A = 2'099 km²

LEGEND

- Catchments Boundaries
- Rainfall Station
- Runoff Station

NOTES

(1) - MAP DATUM: WGS84 - Projection: UTM
36S - Elevation: EGM 2008
(2) - Topography data based on SRTM and ASTER.

0 1 2 3 4 5 10 15 km
scale 1:400,000 (A3 size)

RAINFALL STATIONS

| HM Name | HM Station ID | HM National ID | Coordinates UTM-WGS 84 | Elevation m.a.s.l. | Data Period |
|------------------------|---------------|----------------|------------------------|--------------------|-------------|
| | | | East (m) South (m) | | |
| Rwoho Forest station | 1000499 | 90300120 | 227323 9905963 | 1380 | 1948-1994 |
| Gayaza Isingiro | 1000501 | 90300140 | 253263 9915159 | 1581 | 1950-1994 |
| Bugamba Forest Station | 1000511 | 90300270 | 225422 9918906 | 1500 | 1958-2003 |
| Ngoma Kazumu Mine | 1000512 | 90300280 | 203161 9896763 | 1530 | 1959-1979 |
| Kitunga High School | 1000515 | 90300340 | 182768 9907814 | 1530 | 1965-2002 |
| Kikunda Rwoho | 1000519 | 90300420 | 227320 9909614 | 1770 | 1975-1999 |
| Mbarara Met Station | 1000493 | 90300030 | 242119 9933627 | 1380 | 1903-2003 |
| Kitabi Seminary | 1000494 | 90300050 | 182752 9933599 | 1740 | 1943-2003 |
| Ndeiza | 1000506 | 90300190 | 205038 9920665 | 1500 | 1950-1995 |
| Rubare Farm | 1000508 | 90300210 | 201354 9937260 | 1560 | 1951-2003 |

RUNOFF STATIONS

| NAME | ID | COORDINATES UTM WGS 84 | BASIN AREA (km ²) | DATA PERIOD |
|--|-------|------------------------|-------------------------------|-------------|
| | | East (m) South (m) | | |
| R. Ruizi at Mbarara water works | 81224 | 237777 9931634 | 2099 | 1954-2015 |
| R. Nyakizumba at Maziba | 81248 | 186144 9868308 | 721 | 1956-2014 |
| R. Ruizi Ndeiza at Mbarara - Kabale Road | 81225 | 206894 9920702 | 657 | 1971-1997 |
| R. Ruizi at New Waterworks (81272) | 81272 | 234732 9931780 | 2000 | 2000-2014 |
| R. Kirukuma North | 81249 | 169285 9860275 | 169.7 | 1955-1995 |

Scale: 1:30,000

Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **CATCHMENTS AND HYDRO-METEO STATIONS**

Consultants: **aarvee associates**
architects engineers & consultants pvt.ltd.
Rwanda Residency, Spring Valley Mall Rd., Hydrobad 82, India
Tel: +91-48-2337033 Fax: +91-482337077
e-mail: info@aarvee.net; web: www.aarvee.net

Dwg. No: AA/IRR/2238/KIS/CA-02 Date: 11-01-2019

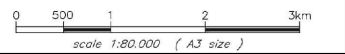
CATCHMENT
A = 90 km²



KABUYANDA DAM

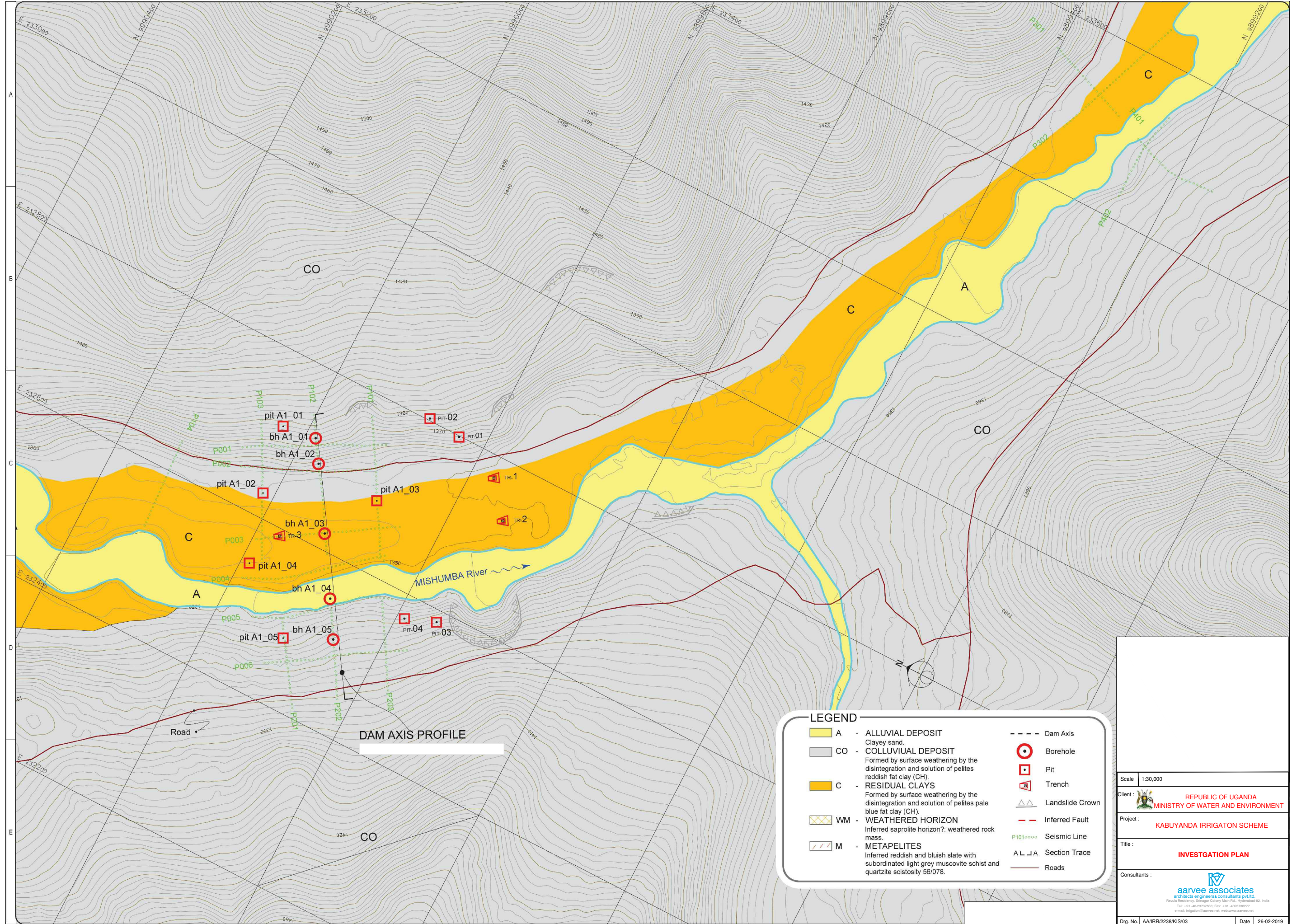
MISHUMBA RIVER

NOTES

- (1) - MAP DATUM: WGS84 - Projection: UTM
36S - Elevation: EGM 2008
- (2) - DRONE: Acquisition: Sept. 2015. Flight
Elevation: 150m. Image Resolution: 5
cm/pixel. Restitution: Photogrammetric
Technique
- (3) - PLEIADES: Acquisition: Aug./Sep. 2015.
Image Resolution: 50 cm/pixel (B&W).
Restitution: Photogrammetric Technique



| | |
|---------------|--|
| Scale : | 1:30,000 |
| Client : |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | CATCHMENTS AREA MAP |
| Consultants : |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Siragapur Colony Main Rd., Hyderabad-52, India Tel: +91-40-23776628, Fax: +91-40-23776277 e-mail: irrigation@aarvee.net, web: www.aarvee.net |
| Dwg. No.: | AA/IRR/2238/KIS/CA-01 |
| Date: | 11-01-2019 |



LEGEND

| | |
|---|-----------------|
| A - ALLUVIAL DEPOSIT Clayey sand. | Dam Axis |
| CO - COLLUVIAL DEPOSIT Formed by surface weathering by the disintegration and solution of pelites reddish fat clay (CH). | Borehole |
| C - RESIDUAL CLAYS Formed by surface weathering by the disintegration and solution of pelites pale blue fat clay (CH). | Pit |
| WM - WEATHERED HORIZON Inferred saprolite horizon?: weathered rock mass. | Trench |
| M - METAPELITES Inferred reddish and bluish slate with subordinated light grey muscovite schist and quartzite scistosity 56/078. | Landslide Crown |
| | Inferred Fault |
| | Seismic Line |
| | Roads |
| | Section Trace |

Scale: 1:30,000

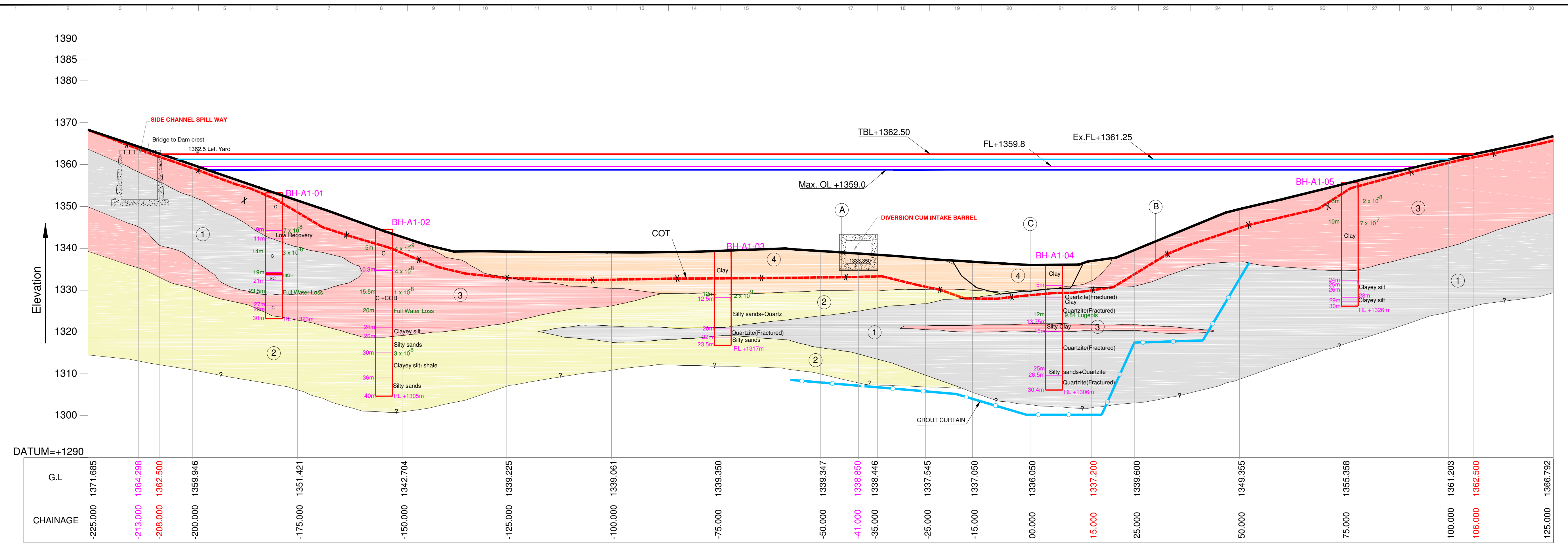
Client: REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project: **KABUYANDA IRRIGATION SCHEME**

Title: **INVESTIGATION PLAN**

Consultants: **aarvee associates**
architects engineers consultants pvt.ltd
Ravula Road, Bangalore City, Karnataka, India
Tel: +91-40-25737033, Fax: +91-40-25737077
e-mail: enquiry@aarvee.net, web: www.aarvee.net

Dwg. No: AA/IRR/2238/KIS/03 Date: 26-02-2019



NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

LEGEND

| | |
|---------------------------------------|--------------------|
| High Plasticity clay and silt (MH-CH) | 4 |
| Low Plasticity clay and silt (MH-CL) | 3 |
| Silty and silty sand (SC-SM) | 2 |
| Highly Weathered Quartzite (HW-QZ) | 1 |
| Out Off Trench | X-X-X |
| Grout Curtain | ○-○-○ |
| Bore hole locations | □ BH-A1 |
| Permeability values in cm/sec | 3×10^{-8} |

Scale - 1:500

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

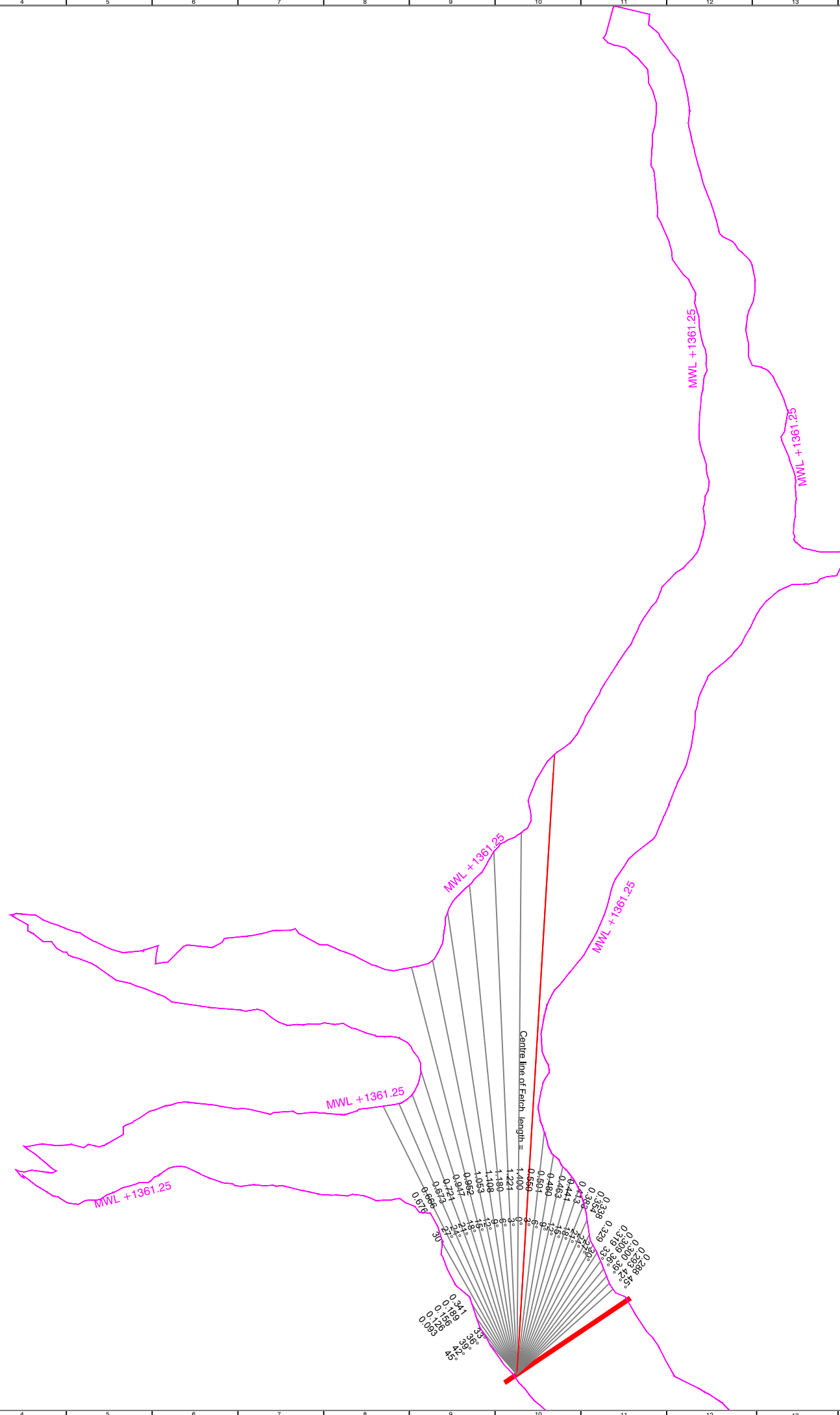
Title : **GEOLOGICAL SECTION**

Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Revilla Residency, Sirinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91-40-23737933; Fax: +91-402379277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

Dwg. No. AA/IRR/2238/KIS/GP-01 Date 14-06-2019

NOTES:

1.All levels are in metres.



Computation of Effective Fetch

| α (Degrees) | $\cos \alpha$ | Xi | Xi $\cos \alpha$ | Xi . $\cos \alpha$. $\cos \alpha$ |
|--------------------|---------------|----------|------------------|------------------------------------|
| 45 | 0.707 | 93.000 | 65.76 | 46.50 |
| 42 | 0.743 | 126.000 | 93.64 | 69.59 |
| 39 | 0.777 | 156.000 | 121.23 | 94.22 |
| 36 | 0.809 | 189.000 | 152.90 | 123.70 |
| 33 | 0.839 | 341.000 | 285.99 | 239.85 |
| 30 | 0.866 | 676.000 | 585.43 | 507.00 |
| 27 | 0.891 | 666.000 | 593.41 | 528.73 |
| 24 | 0.914 | 673.000 | 614.82 | 561.66 |
| 21 | 0.934 | 721.000 | 673.11 | 628.40 |
| 18 | 0.951 | 947.000 | 900.65 | 856.57 |
| 15 | 0.966 | 952.000 | 919.56 | 888.23 |
| 12 | 0.978 | 1053.000 | 1029.99 | 1007.48 |
| 9 | 0.988 | 1108.000 | 1094.36 | 1080.89 |
| 6 | 0.995 | 1180.000 | 1173.54 | 1167.11 |
| 3 | 0.999 | 1221.000 | 1219.33 | 1217.66 |
| 0 | 1.000 | 1400.000 | 1400.00 | 1400.00 |
| 3 | 0.999 | 550.000 | 549.25 | 548.49 |
| 6 | 0.995 | 501.000 | 498.26 | 495.53 |
| 9 | 0.988 | 480.000 | 474.09 | 468.25 |
| 12 | 0.978 | 463.000 | 452.88 | 442.99 |
| 15 | 0.966 | 441.000 | 425.97 | 411.46 |
| 18 | 0.951 | 413.000 | 392.79 | 373.56 |
| 21 | 0.934 | 383.000 | 357.56 | 333.81 |
| 24 | 0.914 | 354.000 | 323.40 | 295.44 |
| 27 | 0.891 | 338.000 | 301.16 | 268.34 |
| 30 | 0.866 | 329.000 | 284.92 | 246.75 |
| 33 | 0.839 | 319.000 | 267.54 | 224.37 |
| 36 | 0.809 | 309.000 | 249.99 | 202.24 |
| 39 | 0.777 | 300.000 | 233.14 | 181.19 |
| 42 | 0.743 | 293.000 | 217.74 | 161.81 |
| 45 | 0.707 | 288.000 | 203.65 | 144.00 |

Sum = 27.710

Sum = 15215.810

$$\text{Effective Fetch} = \frac{\sum Xi \cdot \cos \alpha \cdot \cos \alpha}{\sum \cos \alpha}$$

$$= \frac{15215.810}{27.710}$$

$$= 0.549 \text{ Km.}$$

Maximum Fetch = 1.400 Km.

Average Depth

| MWL (m) | GL (m) | Depth (m) |
|---------|---------|-----------|
| 1361.25 | 1361.25 | 0.00 |
| 1361.25 | 1361.00 | 0.25 |
| 1361.25 | 1360.00 | 1.25 |
| 1361.25 | 1359.00 | 2.25 |
| 1361.25 | 1358.00 | 3.25 |
| 1361.25 | 1357.00 | 4.25 |
| 1361.25 | 1356.00 | 5.25 |
| 1361.25 | 1355.00 | 6.25 |
| 1361.25 | 1354.00 | 7.25 |
| 1361.25 | 1353.00 | 8.25 |
| 1361.25 | 1352.00 | 9.25 |
| 1361.25 | 1351.00 | 10.25 |
| 1361.25 | 1350.00 | 11.25 |
| 1361.25 | 1349.00 | 12.25 |
| 1361.25 | 1348.00 | 13.25 |
| 1361.25 | 1347.00 | 14.25 |
| 1361.25 | 1346.00 | 15.25 |
| 1361.25 | 1345.00 | 16.25 |
| 1361.25 | 1344.00 | 17.25 |
| 1361.25 | 1343.00 | 18.25 |
| 1361.25 | 1342.00 | 19.25 |
| 1361.25 | 1341.00 | 20.25 |
| 1361.25 | 1340.00 | 21.25 |
| 1361.25 | 1339.00 | 22.25 |
| 1361.25 | 1338.00 | 23.25 |
| 1361.25 | 1337.00 | 24.25 |
| 1361.25 | 1336.00 | 25.25 |
| Average | | 12.28 |

Scale : 1:10000

Client :



REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project :

KABUYANDA IRRIGATION SCHEME

Title :

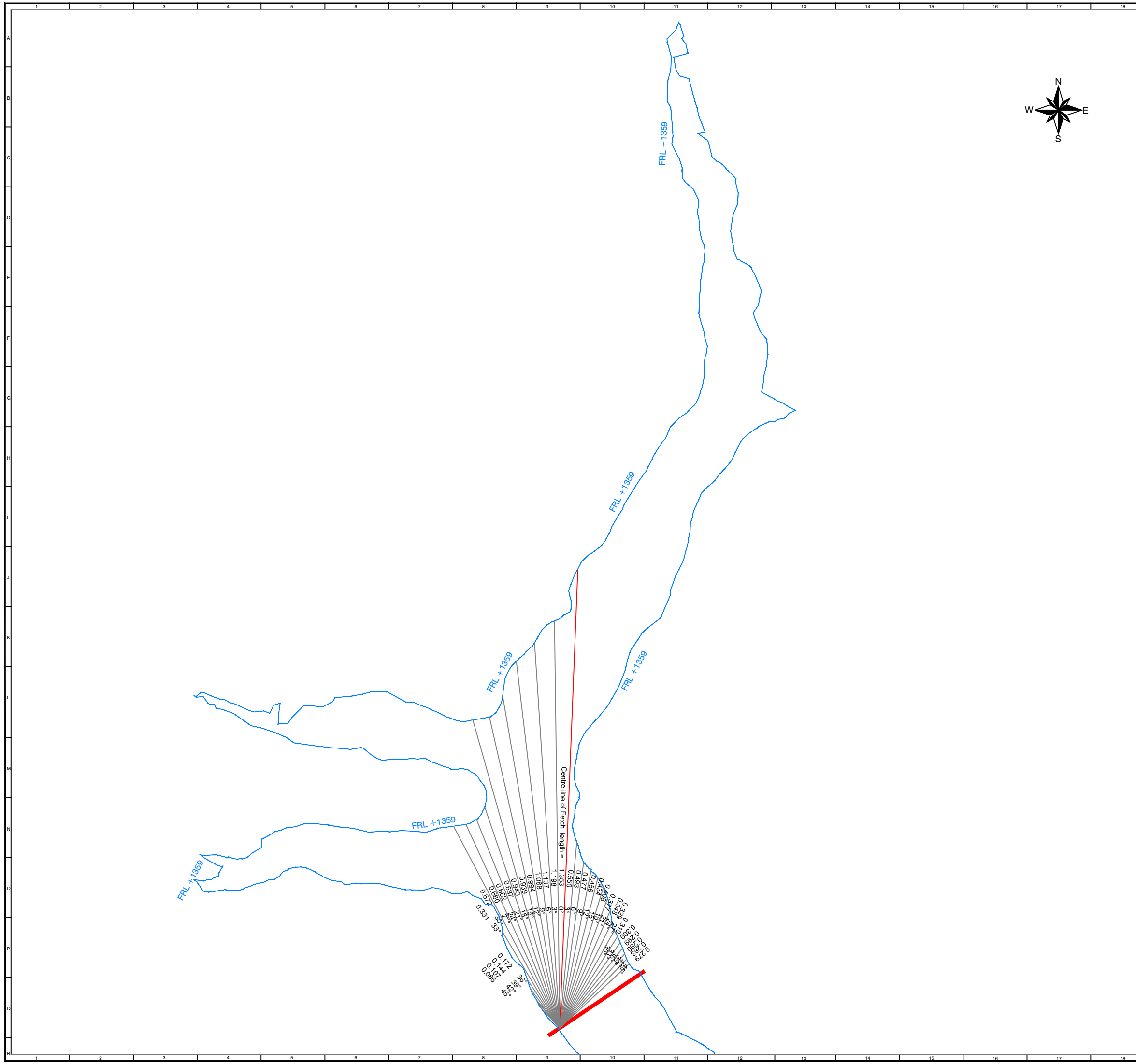
RESERVOIR
FETCH CALCULATIONS FOR MWL CONDITION

Consultants :



aarvee associates
architects engineers & consultants pvt.ltd.

Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



NOTES:
1.All levels are in metres.

Computation of Effective Fetch

| α (Degrees) | $\cos \alpha$ | X_i | $X_i \cos \alpha$ | $X_i \cdot \cos \alpha \cdot \cos \alpha$ |
|--------------------|---------------|----------|-------------------|---|
| 45 | 0.707 | 85.000 | 60.10 | 42.50 |
| 42 | 0.743 | 107.000 | 79.52 | 59.09 |
| 39 | 0.777 | 144.000 | 111.91 | 86.97 |
| 36 | 0.809 | 172.000 | 139.15 | 112.58 |
| 33 | 0.839 | 331.000 | 277.60 | 232.81 |
| 30 | 0.866 | 672.000 | 581.97 | 504.00 |
| 27 | 0.891 | 660.000 | 588.06 | 523.97 |
| 24 | 0.914 | 662.000 | 604.77 | 552.48 |
| 21 | 0.934 | 687.000 | 641.37 | 598.77 |
| 18 | 0.951 | 943.000 | 896.85 | 852.95 |
| 15 | 0.966 | 939.000 | 907.00 | 876.10 |
| 12 | 0.978 | 994.000 | 972.28 | 951.03 |
| 9 | 0.988 | 1088.000 | 1074.60 | 1061.37 |
| 6 | 0.995 | 1137.000 | 1130.77 | 1124.58 |
| 3 | 0.999 | 1198.000 | 1196.36 | 1194.72 |
| 0 | 1.000 | 1353.000 | 1353.00 | 1353.00 |
| 3 | 0.999 | 550.000 | 549.25 | 548.49 |
| 6 | 0.995 | 493.000 | 490.30 | 487.61 |
| 9 | 0.988 | 477.000 | 471.13 | 465.33 |
| 12 | 0.978 | 456.000 | 446.04 | 436.29 |
| 15 | 0.966 | 434.000 | 419.21 | 404.93 |
| 18 | 0.951 | 408.000 | 388.03 | 369.04 |
| 21 | 0.934 | 377.000 | 351.96 | 328.58 |
| 24 | 0.914 | 348.000 | 317.91 | 290.43 |
| 27 | 0.891 | 329.000 | 293.14 | 261.19 |
| 30 | 0.866 | 319.000 | 276.26 | 239.25 |
| 33 | 0.839 | 309.000 | 259.15 | 217.34 |
| 36 | 0.809 | 299.000 | 241.90 | 195.70 |
| 39 | 0.777 | 290.000 | 225.37 | 175.15 |
| 42 | 0.743 | 283.000 | 210.31 | 156.29 |
| 45 | 0.707 | 279.000 | 197.28 | 139.50 |
| Sum = 27.710 | | | Sum = 14842.045 | |

$$\text{Effective Fetch} = \frac{\sum X_i \cdot \cos \alpha \cdot \cos \alpha}{\sum \cos \alpha}$$

$$= \frac{14842.045}{27.710}$$

$$= 0.536 \text{ Km.}$$

Maximum Fetch = 1.353 Km.

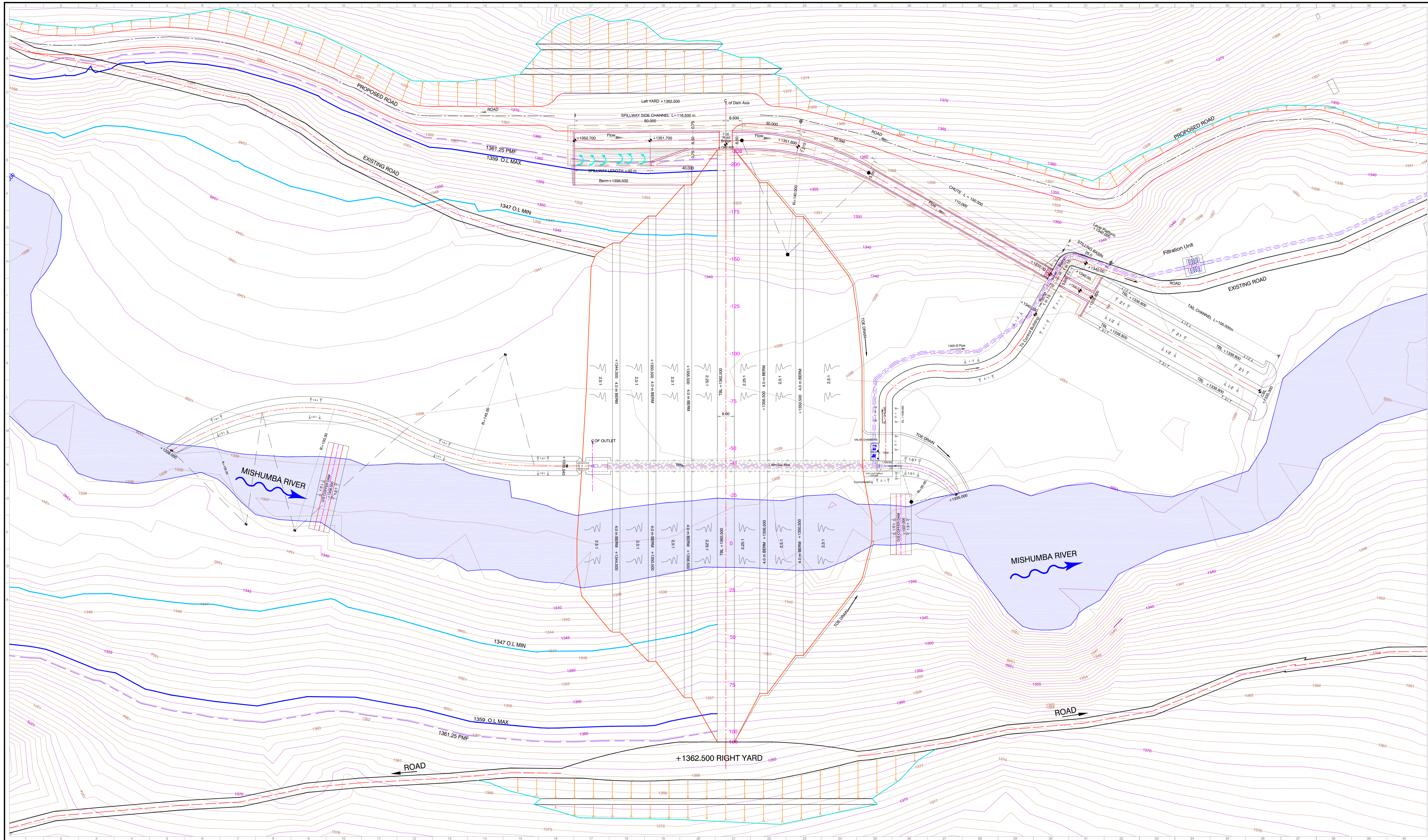
Scale : 1:10000

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RESERVOIR**
FETCH CALCULATIONS FOR FRL CONDITION


Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



NOTES:-
 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.


R0

Scale = 1:750

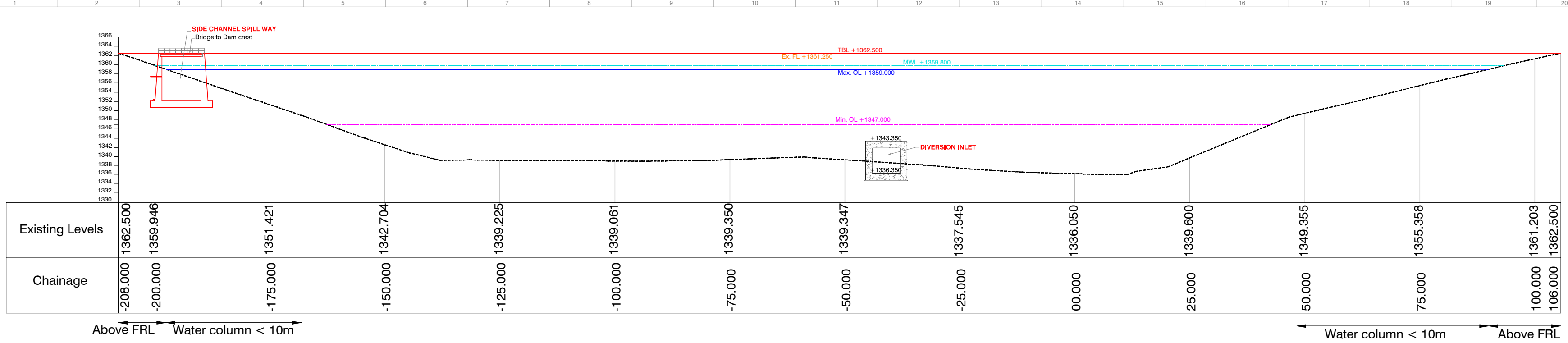
Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

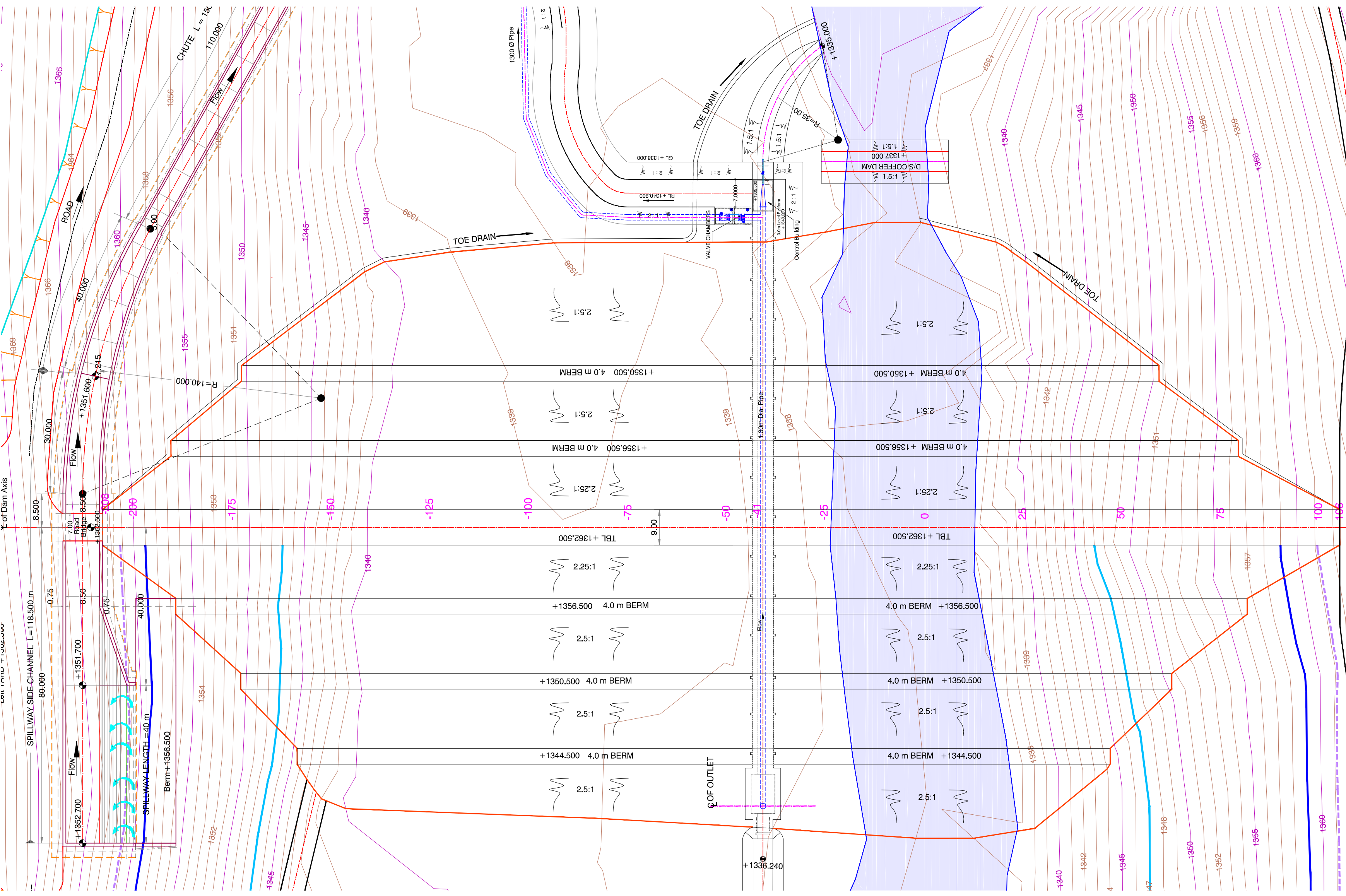
Title : **GENERAL ARRANGEMENT DRAWING OF DAM**

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revilla Residency, Sirajga Colony Main Rd., Hyderabad-68, India
 Tel: +91 40 25737633; Fax: +91 4029726277
 e-mail: irrigation@aarvee.net; web: www.aarvee.net

Dwg. No. **AA/IRR/2238/KIS/DAM/01** Date **14-06-2019**



LONGITUDINAL SECTION



PLAN

NOTES:
1. ALL LEVELS ARE IN METRES, UNLESS OTHERWISE SPECIFIED.

- LEGEND:
- TBL —
 - Ex. FL —
 - MWL —
 - Max. OL —
 - Min. OL —
 - GL - - -

Scale :-1:100

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **PLAN PROFILE OF DAM AXIS**

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

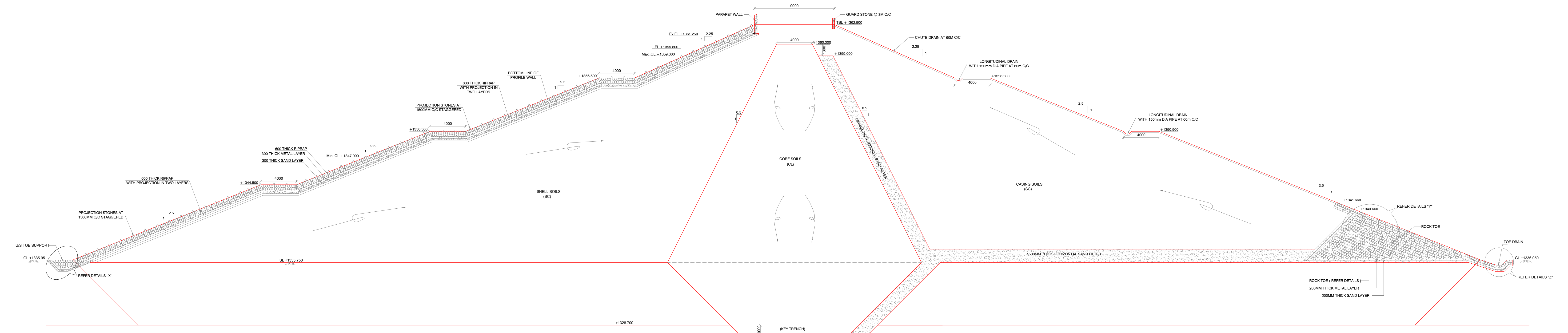
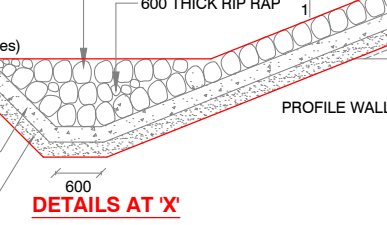
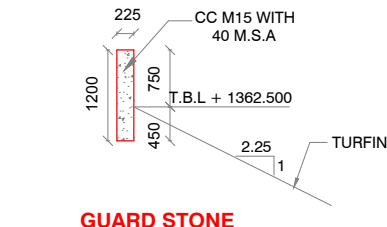
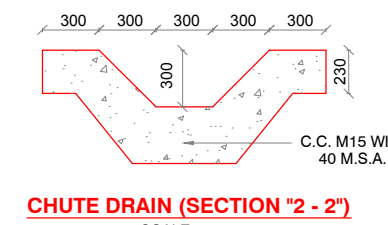
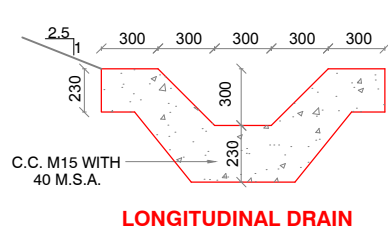


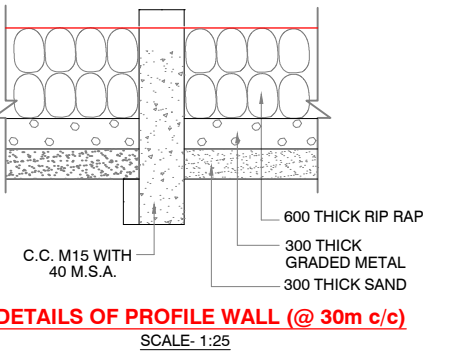
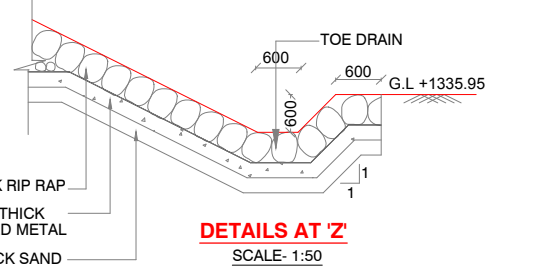
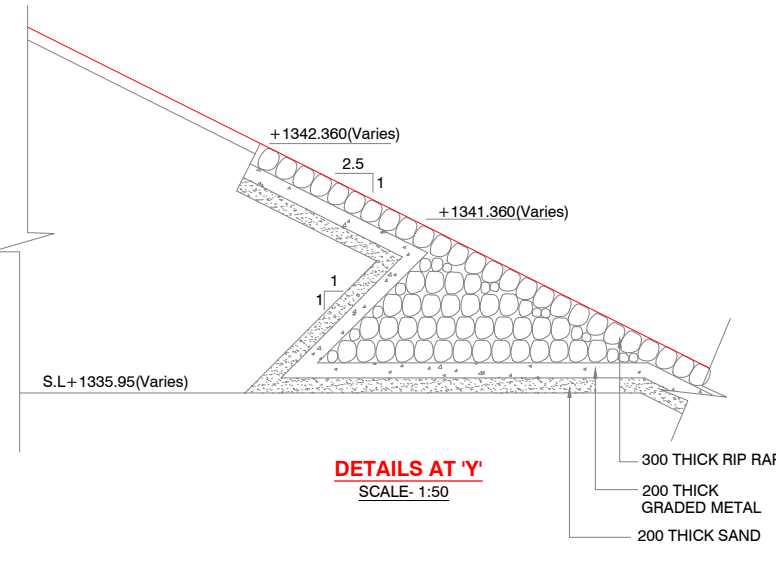
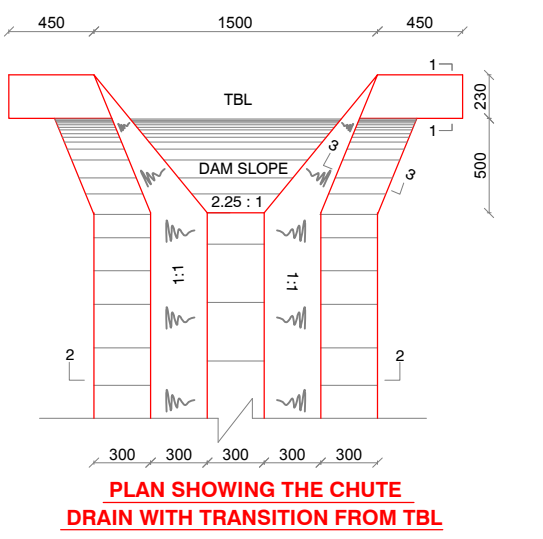
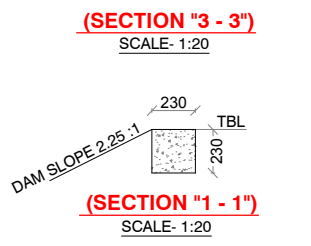
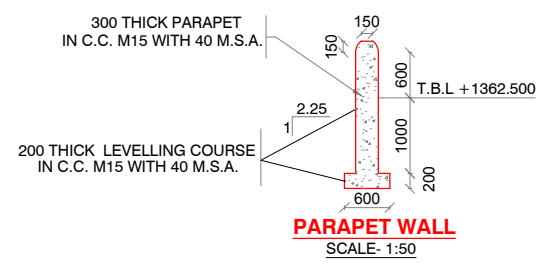
TABLE 1. ENGINEERING PROPERTIES OF SOIL FOR EMBANKMENT CONSTRUCTION

| Zone | Unit Weight (γ) Return | Permeability (K) cm/sec | Shear Strength Parameter of Soil | |
|--------------|------------------------|-------------------------|----------------------------------|-----------|
| | | | C in kg/cm ² | φ in deg. |
| 1 | 2 | 3 | 4 | 5 |
| SHELL SOILS | 14.80 | 9.86×10^{-6} | 0 | 28° |
| CORE | 16.67 | 4.905×10^{-8} | 17.67 | 20.6° |
| COT | 16.67 | 4.905×10^{-8} | 17.67 | 20.6° |
| FILTER | 19.2 | 1.0×10^{-3} | 0 | 32° |
| FOUNDATION 1 | 19.0 | 1.0×10^{-6} | 1 | 26° |
| FOUNDATION 2 | 19.7 | 1.0×10^{-7} | 1 | 32° |
| FOUNDATION 3 | 19.0 | 5.0×10^{-8} | 1 | 32° |
| FOUNDATION 4 | 22.0 | 5.0×10^{-8} | 100 | 36° |

| S.No | CONDITION | FOS | |
|------|---|------|----------|
| | | Min | Obtained |
| 1 | EOC Upstream Slope | 1.30 | 1.671 |
| 2 | EOC Downstream Slope | 1.30 | 1.764 |
| 3 | Steady Seepage Downstream Slope with Maximum Storage Pool | 1.50 | 1.633 |
| 4 | Steady Seepage Downstream Slope with Maximum Storage Pool + OBE | 1.20 | 1.357 |
| 5 | Steady Seepage Downstream Slope with Maximum Storage Pool + MDE | 1.00 | 1.202 |
| 6 | Steady Seepage Upstream Slope with Maximum Storage Pool + OBE | 1.20 | 1.252 |
| 7 | Steady Seepage Upstream Slope with Maximum Storage Pool + MDE | 1.00 | 1.053 |
| 8 | Steady Seepage Downstream Slope with Probable Maximum Flood Level | 1.20 | 1.639 |
| 9 | Sudden Draw Down Upstream Slope From Maximum Storage Pool to Minimum Operated Level | 1.30 | 1.351 |
| 10 | Sudden Draw Down Upstream Slope From PMF Level to Minimum Operated Level | 1.30 | 2.129 |



TYPICAL SECTION (C) OF EARTH BUND FOR MAXIMUM HEIGHT(26.55 M) @ CH 0.00



- SPECIAL NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS. ONLY FIGURED DIMENSIONS NEED BE CONSIDERED.
 - THE EARTH BUND HAS BEEN DESIGNED AS ZONAL SECTION WITH EMBANKMENT SOILS.
 - 1500 THICK HORIZONTAL SAND FILTERS SHALL BE PROVIDED.
 - PARAPET WALLS AS PER THE DETAILS GIVEN IN THE DRAWING SHALL BE PROVIDED FOR THE ENTIRE REACH OF EARTH DAM. THE BED CONCRETE OF THE PARAPET WALL SHOULD REST ON THE FIRM ENBANKMENT SOIL ONLY AS SHOWN IN THE DRAWING. NECESSARY JOINTS HAVE TO BE PROVIDED 30M C/C.
 - A SURFACE SLOPE OF 1 IN 75 FROM U/S TO D/S AT TBL FOR FREE DRAINAGE OF RAIN WATER IN THE DRAINS.
 - THE PROFILE WALL AT 30M INTERVALS SHALL BE CONSTRUCTED ON U/S IN PIECES OF 10M LENGTH WITH SUFFICIENT BITUMEN FILL IN BETWEEN TO TAKE CARE OF TEMPERATURE STRESSES.
 - THE GUARD STONE ARE PROPOSED AT 3M C/C ON D/S AT TOP OF EARTH DAM.
 - THE ENTIRE D/S SURFACE OF THE BUND SHALL BE PROTECTED BY TURFING OF THE STANDARD QUALITY AND MAINTAINED REGULARLY.
 - THE CHUTE DRAINS SHALL BE CONSTRUCTED AT 45M C/C IN CC M10 USING 40 MSA.
 - DEPTH OF CUT OFF TRENCH IS PROVIDED FOR 1000mm INTO HARD ROCK DURING EXECUTION ITS GEOLOGICAL SUITABILITY SHOULD BE ASCERT

Scale :-1:200

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

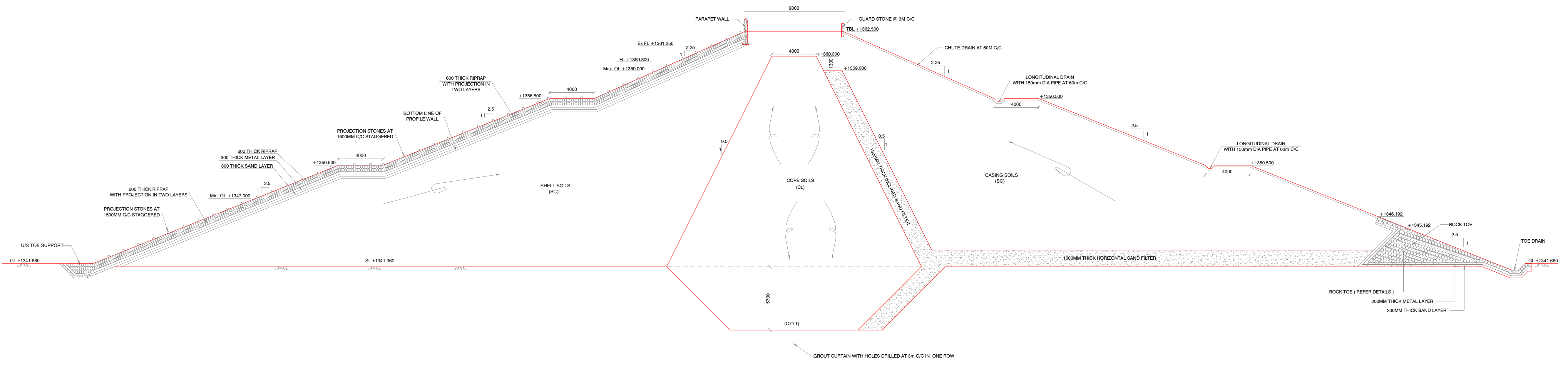
Title : **TYPICAL SECTION (C) @ CH. 0.00**

Consultants : **arvee associates**
architects engineers & consultants pvt.ltd.
Revula Residency, Srirangar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: arvee@arvee.com; web: www.arvee.com

Drg. No. AA/IRR/2238/KIS/DAM-11 Date 14-06-2019

SPECIAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS. ONLY FIGURED DIMENSIONS NEED BE CONSIDERED.
2. THE EARTH BUND HAS BEEN DESIGNED AS ZONAL SECTION WITH EMBANKMENT SOILS.
3. 1500 THICK HORIZONTAL SAND FILTERS SHALL BE PROVIDED.
4. PARAPET WALLS AS PER THE DETAILS GIVEN IN THE DRAWING SHALL BE PROVIDED FOR THE ENTIRE REACH OF EARTH DAM. THE BED CONCRETE OF THE PARAPET WALL SHOULD REST ON THE FIRM EMBANKMENT SOIL ONLY AS SHOWN IN THE DRAWING. NECESSARY JOINTS HAVE TO BE PROVIDED 30M C/C.
5. A SURFACE SLOPE OF 1 IN 75 FROM U/S TO D/S AT TBL FOR FREE DRAINAGE OF RAIN WATER IN THE DRAINS.
6. THE PROFILE WALL AT 30M INTERVALS SHALL BE CONSTRUCTED ON U/S IN PIECES OF 10M LENGTH WITH SUFFICIENT BITUMEN FILL IN BETWEEN TO TAKE CARE OF TEMPERATURE STRESSES.
7. THE GUARD STONE ARE PROPOSED AT 3M C/C ON D/S AT TOP OF EARTH DAM.
8. THE ENTIRE D/S SURFACE OF THE BUND SHALL BE PROTECTED BY TURFING OF THE STANDARD QUALITY AND MAINTAINED REGULARLY.
9. THE CHUTE DRAINS SHALL BE CONSTRUCTED AT 45M C/C IN CC M10 USING 40 MSA.
10. DEPTH OF CUT OFF TRENCH IS PROVIDED FOR 1000mm INTO HARD ROCK DURING EXECUTION ITS GEOLOGICAL SUITABILITY SHOULD BE ASCERT



TYPICAL SECTION (B) OF EARTH BUND FOR HEIGHT(21.15 M) @ CH 30.00

TABLE 1. ENGINEERING PROPERTIES OF SOIL FOR EMBANKMENT CONSTRUCTION

| Zone | Unit Weight (γ) KN/m ³ | Permeability (K) cm/sec | Shear Strength Parameter of Soil | |
|--------------|--------------------------------------|----------------------------|----------------------------------|-----------|
| | | | C in kg/cm ² | φ in deg. |
| 1 | 2 | 3 | 4 | 5 |
| SHELL SOILS | 14.80 | 9.88 X 10 ⁻⁶ | 0 | 28° |
| CORE | 16.67 | 4.905 X 10 ⁻⁸ | 17.67 | 20.6° |
| COT | 16.67 | 4.905 X 10 ⁻⁸ | 17.67 | 20.6° |
| FILTER | 19.2 | 1.0 X 10 ⁻³ | 0 | 32° |
| FOUNDATION 1 | 19.0 | 1.0 X 10 ⁻⁶ | 1 | 26° |
| FOUNDATION 2 | 19.7 | 1.0 X 10 ⁻⁷ | 1 | 32° |
| FOUNDATION 3 | 19.0 | 5.0 X 10 ⁻⁸ | 1 | 32° |
| FOUNDATION 4 | 22.0 | 5.0 X 10 ⁻⁸ | 100 | 36° |

| S.No | CONDITION | FOS | |
|------|---|------|----------|
| | | Min | Obtained |
| 1 | EOC UpStream Slope | 1.30 | 1.726 |
| 2 | EOC DownStream Slope | 1.30 | 1.766 |
| 3 | Steady Seepage Downstream Slope with Maximum Storage Pool | 1.50 | 1.665 |
| 4 | Steady Seepage Downstream Slope with Maximum Storage Pool + OBE | 1.20 | 1.382 |
| 5 | Steady Seepage Downstream Slope with Maximum Storage Pool + MDE | 1.00 | 1.201 |
| 6 | Steady Seepage Upstream Slope with Maximum Storage Pool + OBE | 1.20 | 1.438 |
| 7 | Steady Seepage Upstream Slope with Maximum Storage Pool + MDE | 1.00 | 1.133 |
| 8 | Steady Seepage Downstream Slope with Probable Maximum Flood Level | 1.20 | 1.666 |
| 9 | Sudden Draw Down Upstream Slope From Maximum Storage Pool to Minimum Operated Level | 1.30 | 1.327 |
| 10 | Sudden Draw Down Upstream Slope From PMF Level to Minimum Operated Level | 1.30 | 1.786 |

Scale : 1:200

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

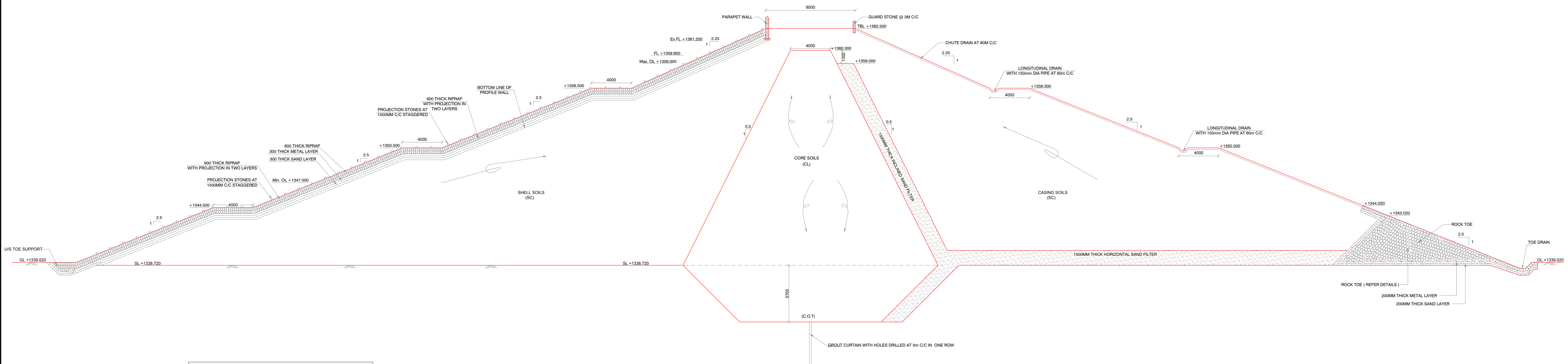
Title : **TYPICAL SECTION (B) @ CH. 30.00**

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

Drg. No. AA/IRR/2238/KIS/DAM-10 Date 14-06-2019

SPECIAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS. ONLY FIGURED DIMENSIONS NEED BE CONSIDERED.
2. THE EARTH BUND HAS BEEN DESIGNED AS ZONAL SECTION WITH EMBANKMENT SOILS.
3. 1500 THICK HORIZONTAL SAND FILTERS SHALL BE PROVIDED.
4. PARAPET WALLS AS PER THE DETAILS GIVEN IN THE DRAWING SHALL BE PROVIDED FOR THE ENTIRE REACH OF EARTH DAM. THE BED CONCRETE OF THE PARAPET WALL SHOULD REST ON THE FIRM ENBANKMENT SOIL ONLY AS SHOWN IN THE DRAWING. NECESSARY JOINTS HAVE TO BE PROVIDED 30M C/C.
5. A SURFACE SLOPE OF 1 IN 75 FROM U/S TO D/S AT TBL FOR FREE DRAINAGE OF RAIN WATER IN THE DRAINS.
6. THE PROFILE WALL AT 30M INTERVALS SHALL BE CONSTRUCTED ON U/S IN PIECES OF 10M LENGTH WITH SUFFICIENT BITUMEN FILL IN BETWEEN TO TAKE CARE OF TEMPERATURE STRESSES.
7. THE GUARD STONE ARE PROPOSED AT 3M C/C ON D/S AT TOP OF EARTH DAM.
8. THE ENTIRE D/S SURFACE OF THE BUND SHALL BE PROTECTED BY TURFING OF THE STANDARD QUALITY AND MAINTAINED REGULARLY.
9. THE CHUTE DRAINS SHALL BE CONSTRUCTED AT 45M C/C IN CC M10 USING 40 MSA.
10. DEPTH OF CUT OFF TRENCH IS PROVIDED FOR 1000mm INTO HARD ROCK DURING EXECUTION ITS GEOLOGICAL SUITABILITY SHOULD BE ASCERT



TYPICAL SECTION (A) OF EARTH BUND FOR HEIGHT(23.5 M) @ CH -44.00

TABLE 1. ENGINEERING PROPERTIES OF SOIL FOR EMBANKMENT CONSTRUCTION

| Zone | Unit Weight (γ) KN/m ³ | Permeability (K) cm/sec | Shear Strength Parameter of Soil | | |
|--------------|--------------------------------------|----------------------------|----------------------------------|-----------|--|
| | | | C in kg/cm ² | φ in deg. | |
| 1 | 2 | 3 | 4 | 5 | |
| SHELL SOILS | 14.80 | 9.86 X 10 ⁻⁶ | 0 | 28° | |
| CORE | 16.67 | 4.905 X 10 ⁻⁸ | 17.67 | 20.6° | |
| COT | 16.67 | 4.905 X 10 ⁻⁸ | 17.67 | 20.6° | |
| FILTER | 19.2 | 1.0 X 10 ⁻³ | 0 | 32° | |
| FOUNDATION 1 | 19.0 | 1.0 X 10 ⁻⁵ | 1 | 26° | |
| FOUNDATION 2 | 19.7 | 1.0 X 10 ⁻⁷ | 1 | 32° | |
| FOUNDATION 3 | 19.0 | 5.0 X 10 ⁻⁸ | 1 | 32° | |
| FOUNDATION 4 | 22.0 | 5.0 X 10 ⁻⁸ | 100 | 36° | |

| S.No | CONDITION | FOS | |
|------|---|------|----------|
| | | Min | Obtained |
| 1 | EOC UpStream Slope | 1.30 | 1.718 |
| 2 | EOC DownStream Slope | 1.30 | 1.740 |
| 3 | Steady Seepage Downstream Slope with Maximum Storage Pool | 1.50 | 1.666 |
| 4 | Steady Seepage Downstream Slope with Maximum Storage Pool + OBE | 1.20 | 1.371 |
| 5 | Steady Seepage Downstream Slope with Maximum Storage Pool + MDE | 1.00 | 1.211 |
| 6 | Steady Seepage Upstream Slope with Maximum Storage Pool + OBE | 1.20 | 1.295 |
| 7 | Steady Seepage Upstream Slope with Maximum Storage Pool + MDE | 1.00 | 1.140 |
| 8 | Steady Seepage Downstream Slope with Probable Maximum Flood Level | 1.20 | 1.666 |
| 9 | Sudden Draw Down Upstream Slope From Maximum Storage Pool to Minimum Operated Level | 1.30 | 1.330 |
| 10 | Sudden Draw Down Upstream Slope From PMF Level to Minimum Operated Level | 1.30 | 1.458 |

Scale :-1:200

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

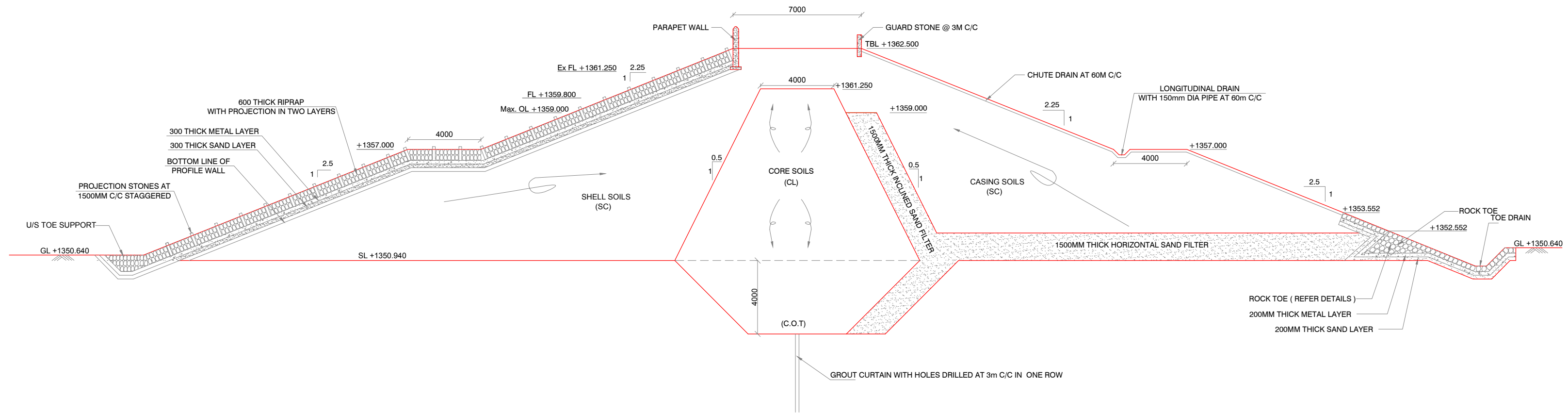
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **TYPICAL SECTION (A) @ CH. -44.00**

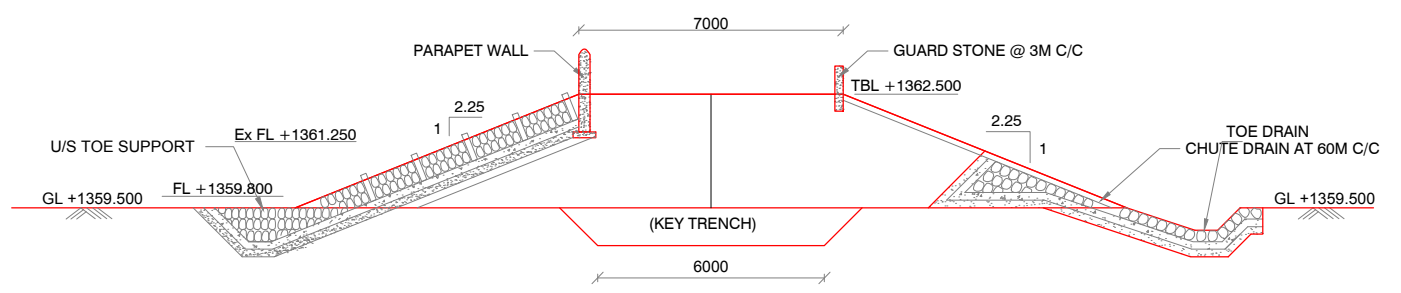
Consultants : **aarvee associates**
architects, engineers & consultants pvt.ltd.
Ravula Residency, Singar Colony Main Rd., Hyderabad-52, India
Tel. +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrgation@aarvee.net; web:www.aarvee.net

SPECIAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS. ONLY FIGURED DIMENSIONS NEED BE CONSIDERED.
2. THE EARTH BUND HAS BEEN DESIGNED AS ZONAL SECTION WITH EMBANKMENT SOILS.
3. 1500 THICK HORIZONTAL SAND FILTERS SHALL BE PROVIDED.
4. PARAPET WALLS AS PER THE DETAILS GIVEN IN THE DRAWING SHALL BE PROVIDED FOR THE ENTIRE REACH OF EARTH DAM. THE BED CONCRETE OF THE PARAPET WALL SHOULD REST ON THE FIRM ENBANKMENT SOIL ONLY AS SHOWN IN THE DRAWING. NECESSARY JOINTS HAVE TO BE PROVIDED 30M C/C.
5. A SURFACE SLOPE OF 1 IN 75 FROM U/S TO D/S AT TBL FOR FREE DRAINAGE OF RAIN WATER IN THE DRAINS.
6. THE PROFILE WALL AT 30M INTERVALS SHALL BE CONSTRUCTED ON U/S IN PIECES OF 10M LENGTH WITH SUFFICIENT BITUMEN FILL IN BETWEEN TO TAKE CARE OF TEMPERATURE STRESSES.
7. THE GUARD STONE ARE PROPOSED AT 3M C/C ON D/S AT TOP OF EARTH DAM.
8. THE ENTIRE D/S SURFACE OF THE BUND SHALL BE PROTECTED BY TURFING OF THE STANDARD QUALITY AND MAINTAINED REGULARLY.
9. THE CHUTE DRAINS SHALL BE CONSTRUCTED AT 45M C/C IN CC M10 USING 40 MSA.
10. DEPTH OF CUT OFF TRENCH IS PROVIDED FOR 1000mm INTO HARD ROCK DURING EXECUTION ITS GEOLOGICAL SUITABILITY SHOULD BE ASCERT



TYPICAL SECTION OF EARTH BUND FOR WATER COLUMN HEIGHT < 10 M) @ CH -185.00



TYPICAL SECTION OF EARTH BUND FOR ABOVE Max. OL @ CH 93.00

Scale :-1:200

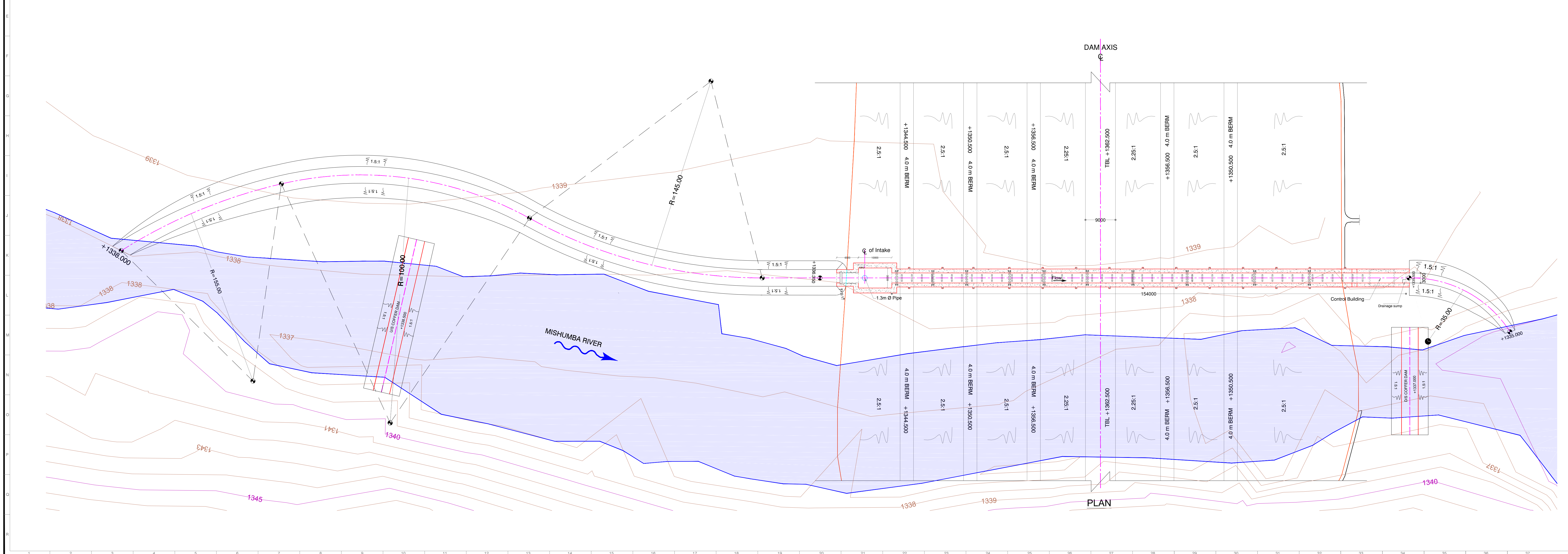
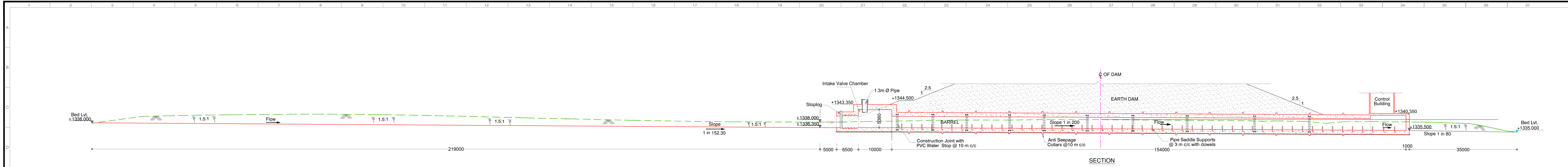
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATON SCHEME**

Title : **TYPICAL SECTION @ CH. -185.00 & 93.00**

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Ravula Residency, Sinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-
 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS.
 UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



Scale = 1:500

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

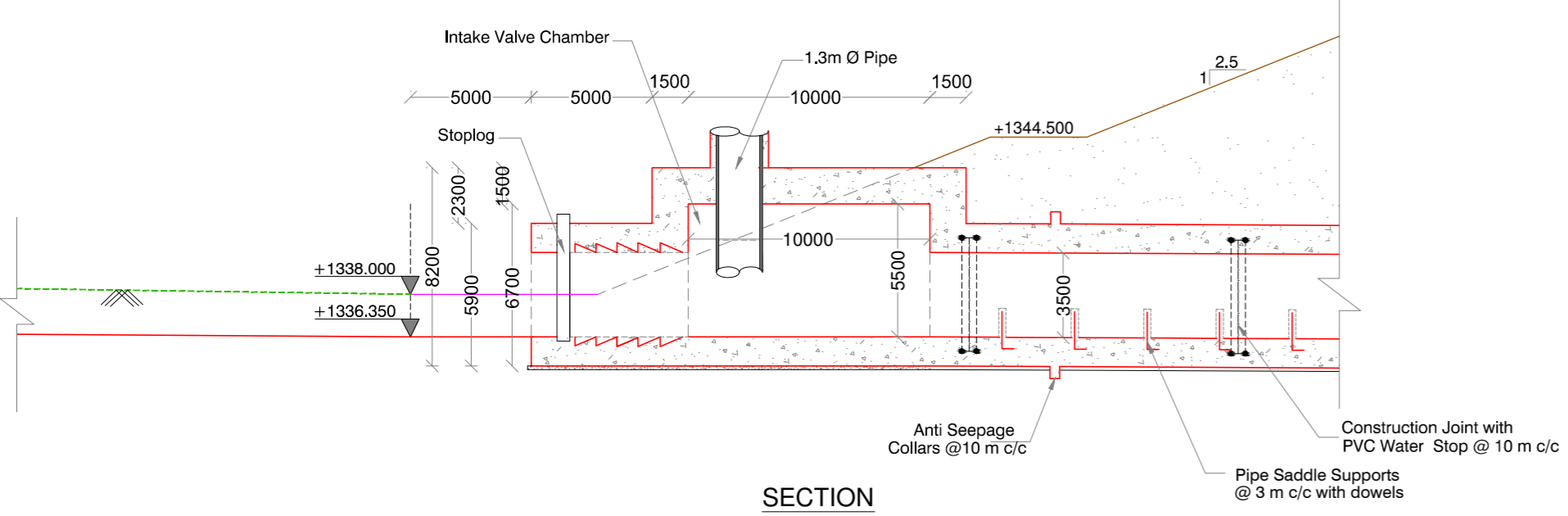
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF DIVERSION WORKS**

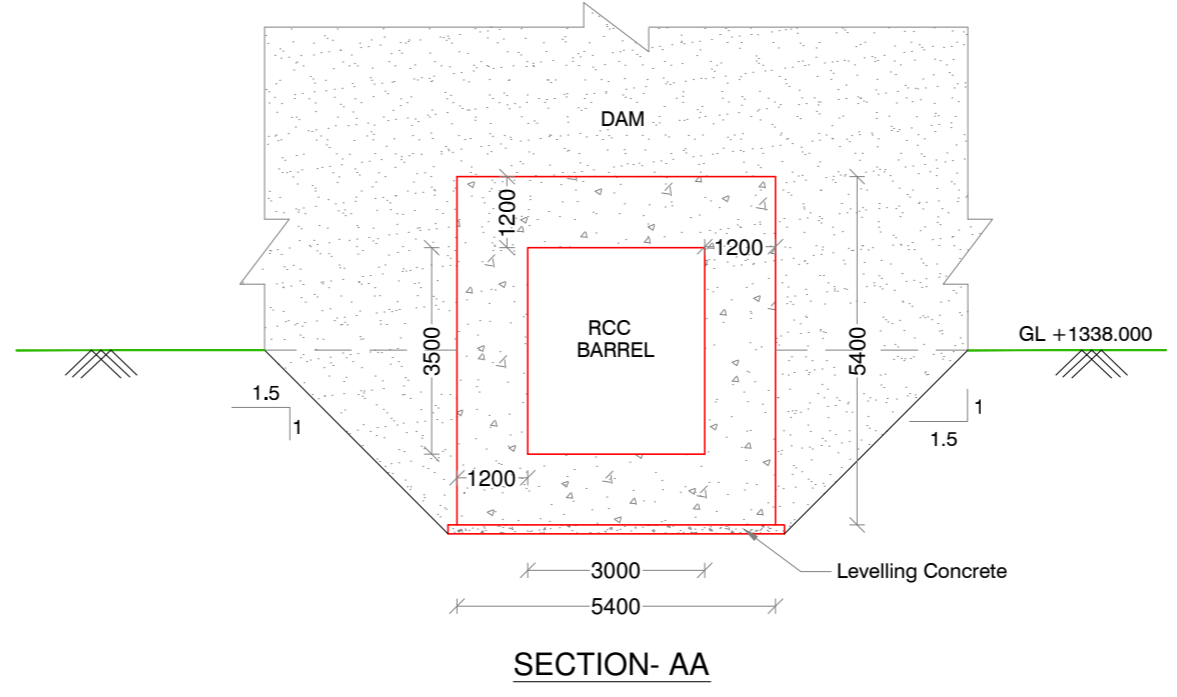
Consultants : **aarvee associates**
 architects engineers consultants pvt ltd.
 Bhubaneswar, Odisha, India
 Tel: +91-674-2573633, Fax: +91-674-2573677
 www.aarvee.com

Dwg. No. AA/IRR/2238/KIS/DIV/01 Date 14-06-2019

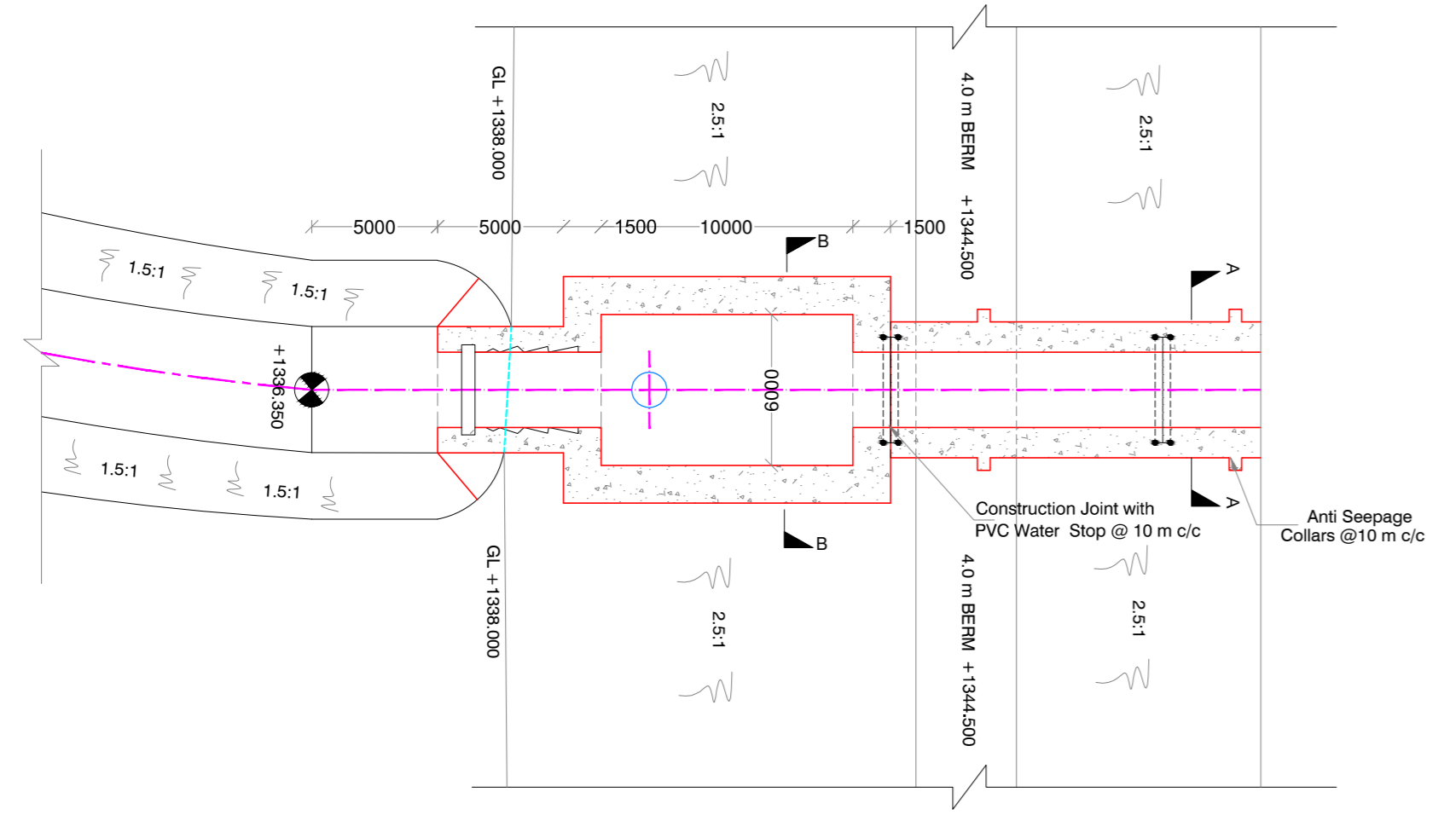
- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



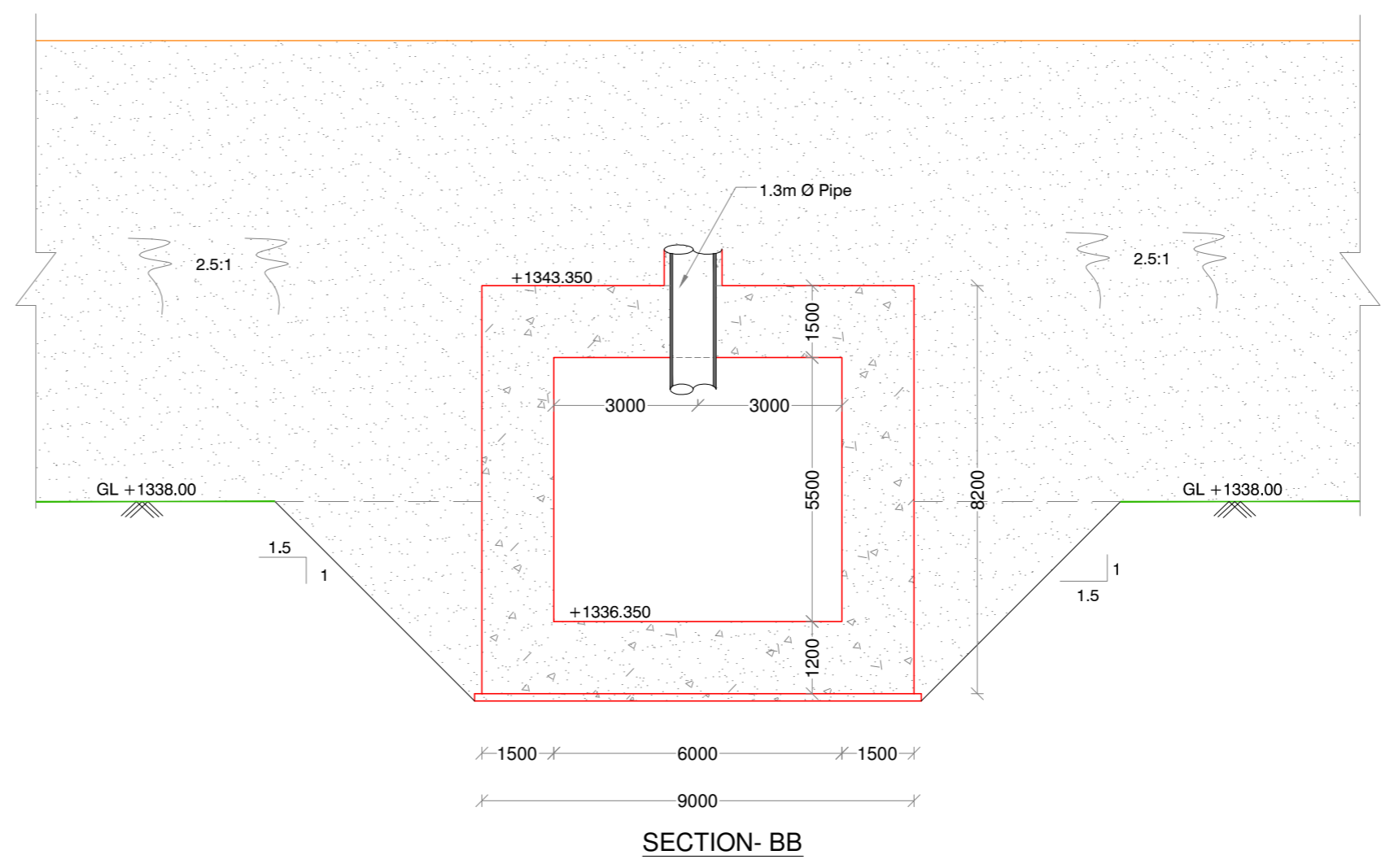
SECTION




SECTION- AA



PLAN

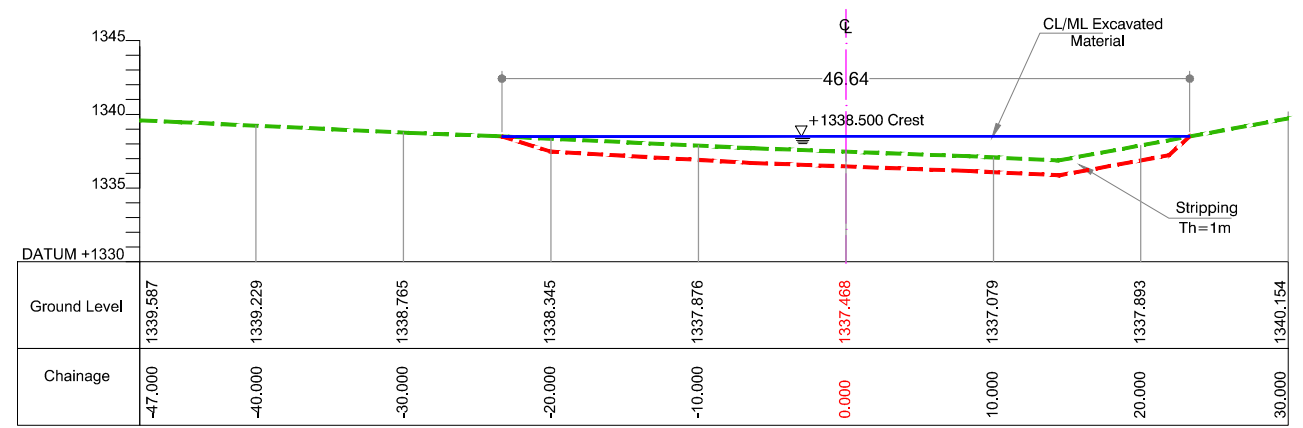


SECTION- BB

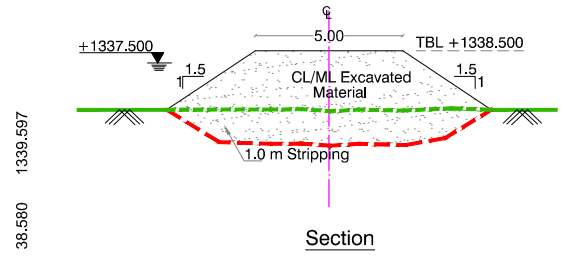
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| Client | REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | INLET DETAILS OF DIVERSION WORKS |
| Consultants : |  architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-52, India Tel: +91 -40-23737833; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/DIV/02 |
| Date | 14-06-2019 |

NOTES:-

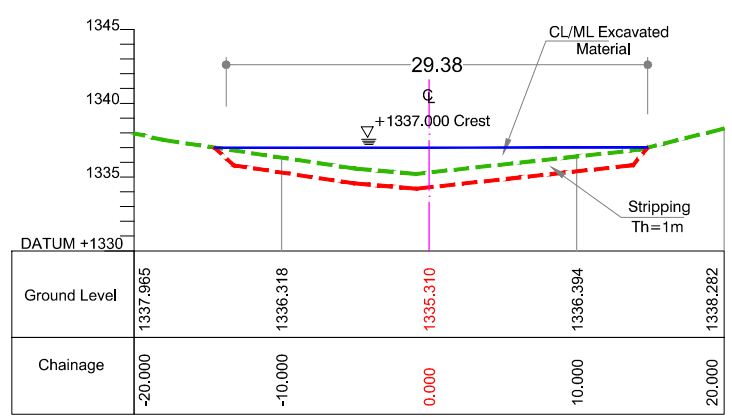
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- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



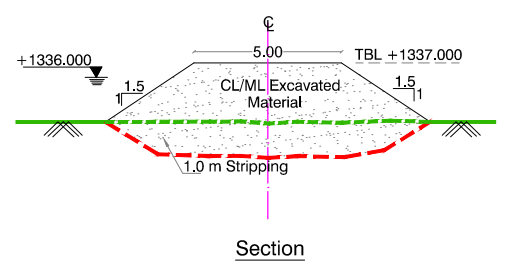
U/S COFFER DAM



Section



D/S COFFER DAM



Section

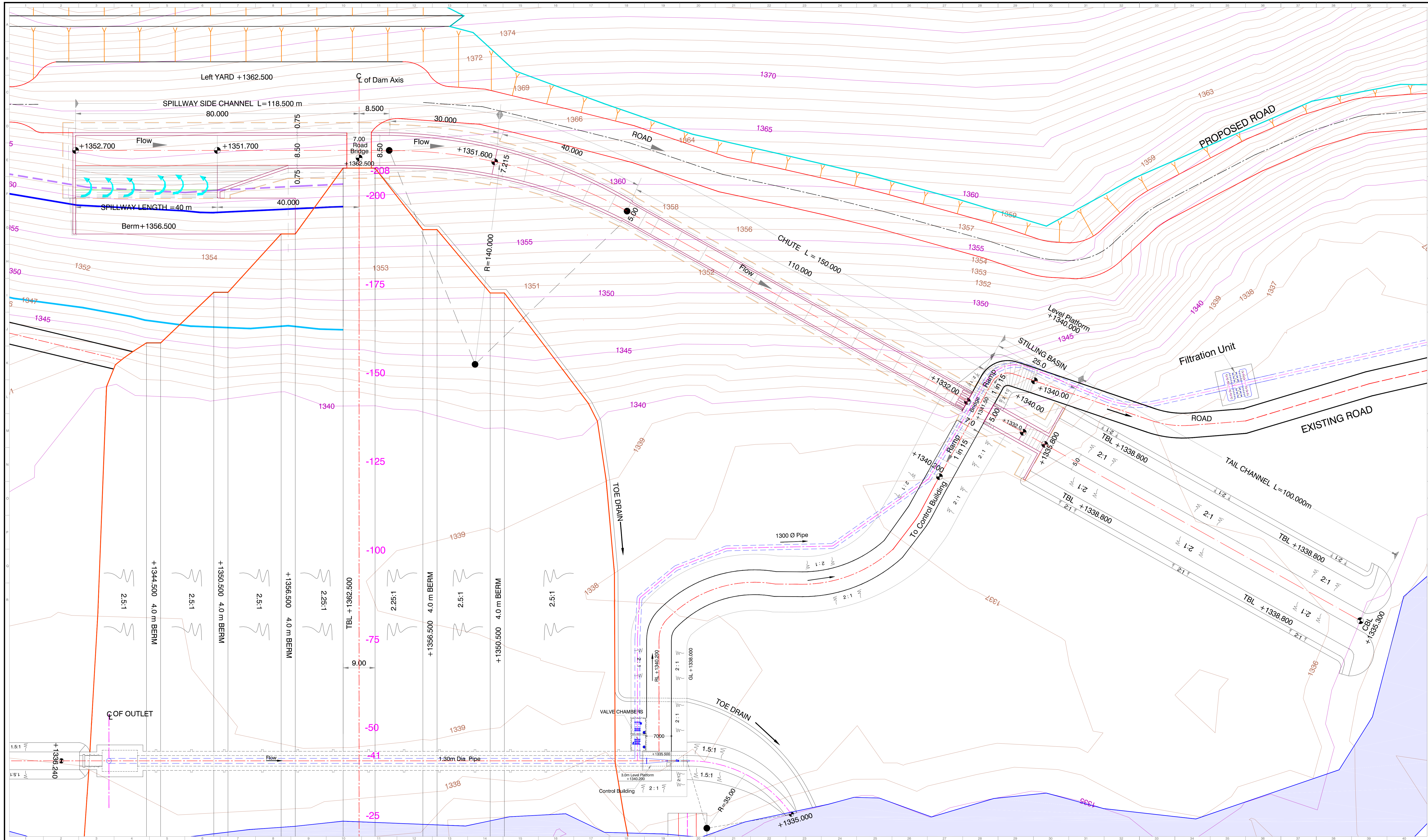
Scale :- 1:500

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**


Title : **DETAILS OF COFFER DAM**

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: Irrigation@aarvee.net; web:www.aarvee.net




NOTES:-
 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Scale = 1:400

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF DAM**

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revilla Residency, Sirajga Colony Main Rd., Hyderabad-50, India
 Tel: +91 40 25737633; Fax: +91 4029795077
 e-mail: irrigation@aarvee.net, web: www.aarvee.net

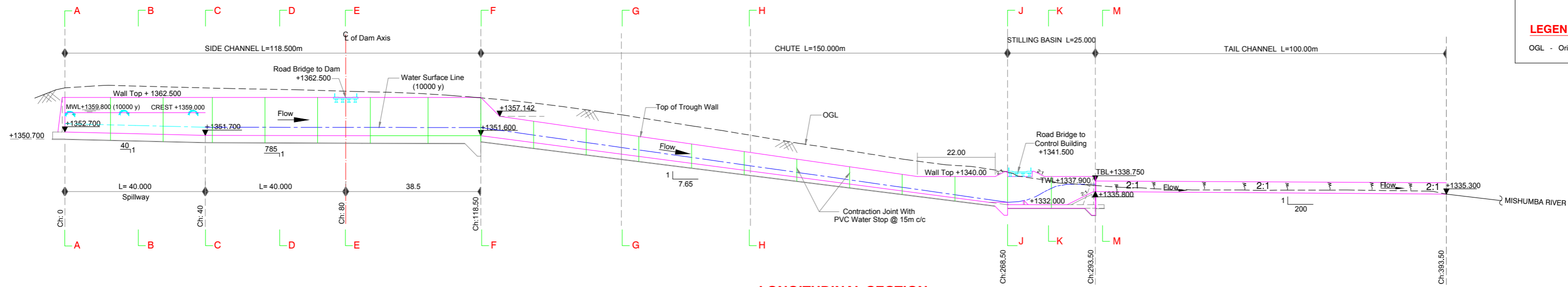
Dwg. No. AA/IRR/2238/KIS/DAM/01 Date 14-06-2019

NOTES:

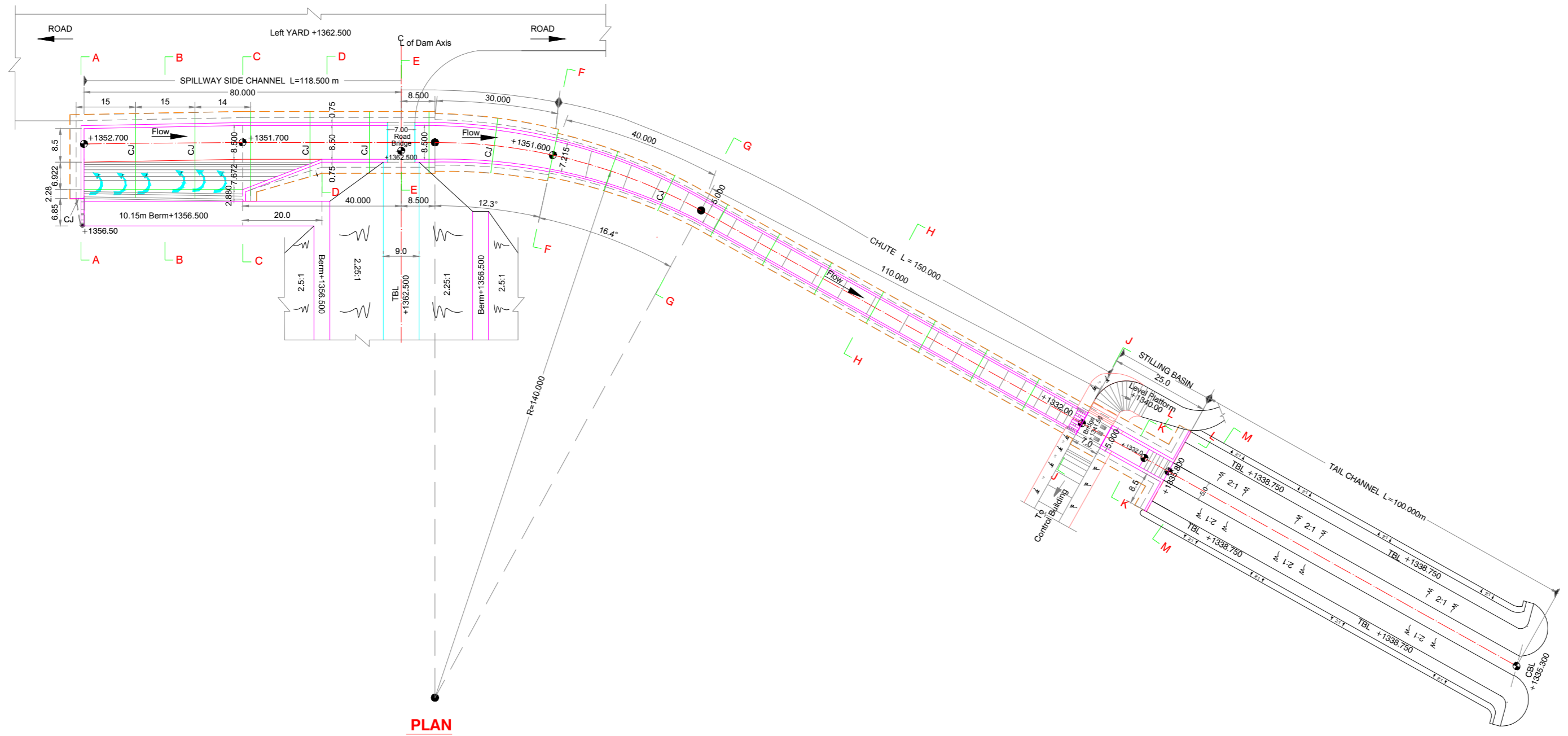
1. All dimensions and levels in metres unless otherwise specified.
2. The drawings shall not be scaled and only figured dimensions shall be considered.

LEGEND:



OGL - Original Ground Level

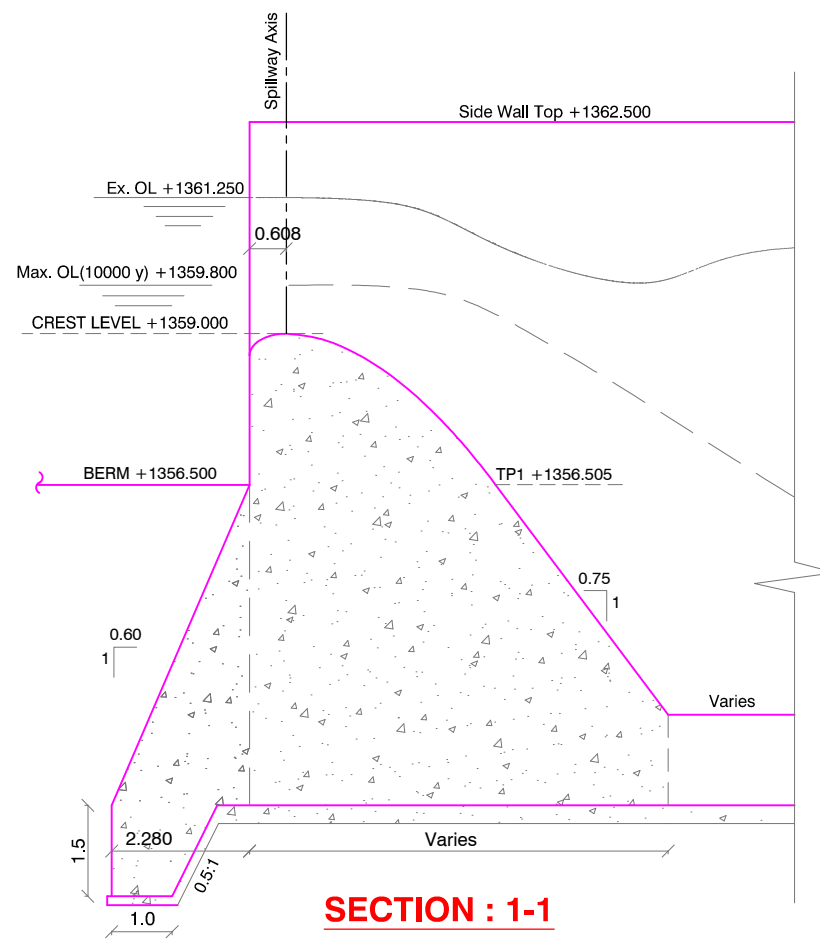


LONGITUDINAL SECTION

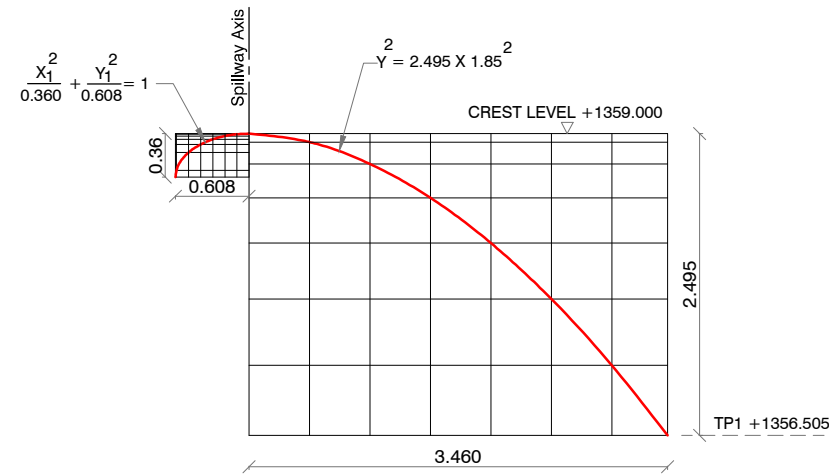


PLAN

| | |
|---------------|--|
| Scale | |
| Client : |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | GENERAL ARRANGEMENT DRAWING OF SIDE CHANNEL SPILLWAY |
| Consultants : |  aarvee associates <small>architects engineers & consultants pvt.ltd.</small> <small>Ravula Residency, Srirangar Colony Main Rd., Hyderabad-82, India</small> <small>Tel: +91 -40-23737833; Fax: +91 -4023736277</small> <small>e-mail: irrigation@aarvee.net; web:www.aarvee.net</small> |
| Drg. No. | AA/IRR/2238/KIS/SCS-02 |
| Date | 17-06-2019 |



SECTION : 1-1



CREST DETAILS

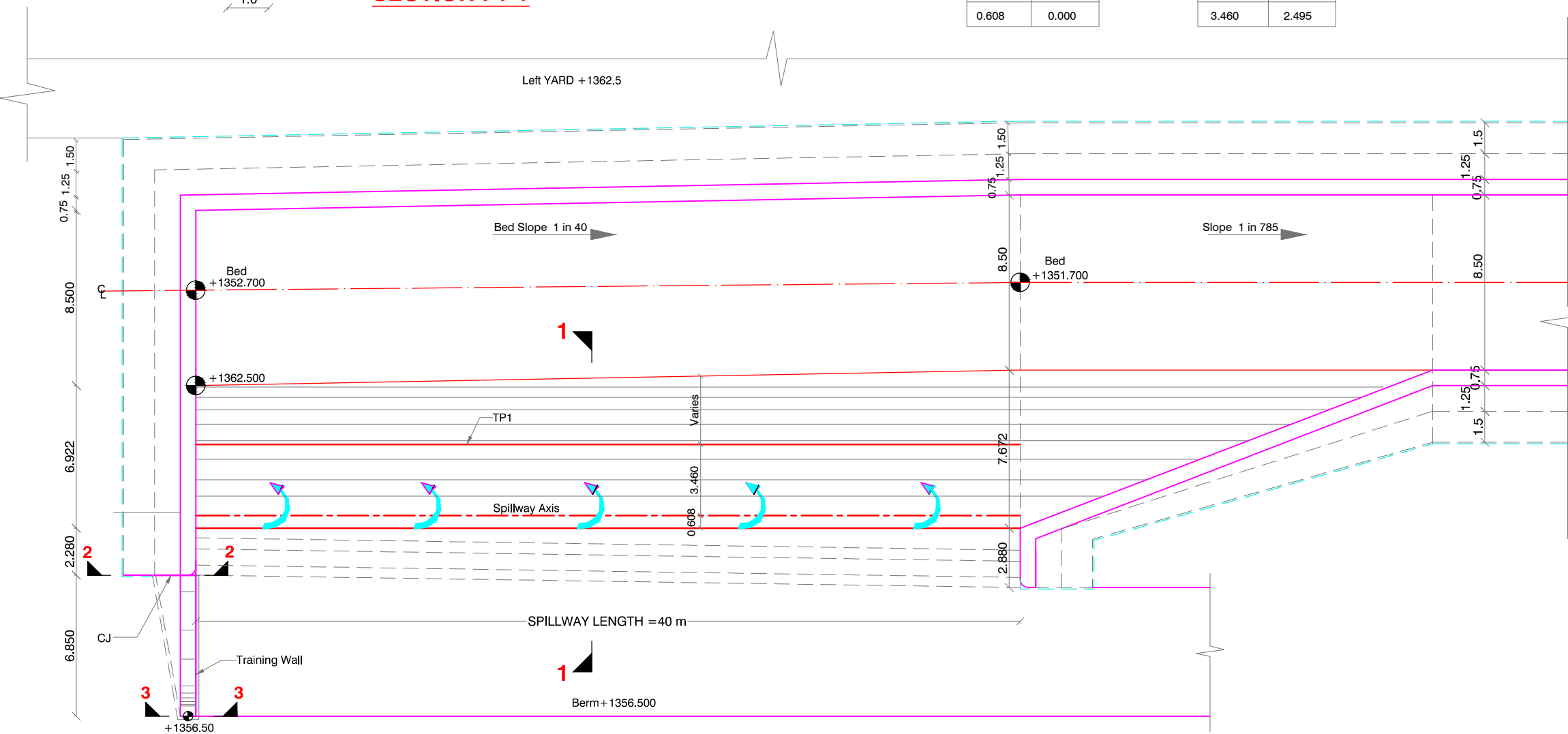
SCALE: 1:25

**UP STREAM
CO-ORDINATES**

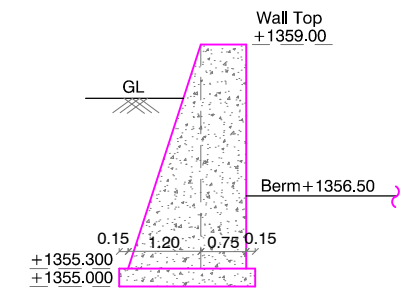
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|----------------|----------------|
| 0.000 | 0.360 |
| 0.100 | 0.355 |
| 0.200 | 0.340 |
| 0.300 | 0.313 |
| 0.400 | 0.271 |
| 0.500 | 0.204 |
| 0.600 | 0.056 |
| 0.608 | 0.000 |

**DOWN STREAM
CO-ORDINATES**

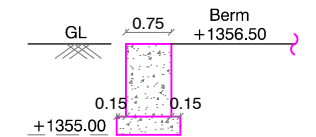
| X ₂ | Y ₂ |
|----------------|----------------|
| 0.000 | 0.000 |
| 0.500 | 0.070 |
| 1.000 | 0.251 |
| 1.500 | 0.531 |
| 2.000 | 0.905 |
| 2.500 | 1.367 |
| 3.000 | 1.916 |
| 3.460 | 2.495 |



PLAN



SECTION 2-2





SECTION 3-3

NOTES:

1. All dimensions and levels in metres unless otherwise specified.
2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:

OGL - Original Ground Level

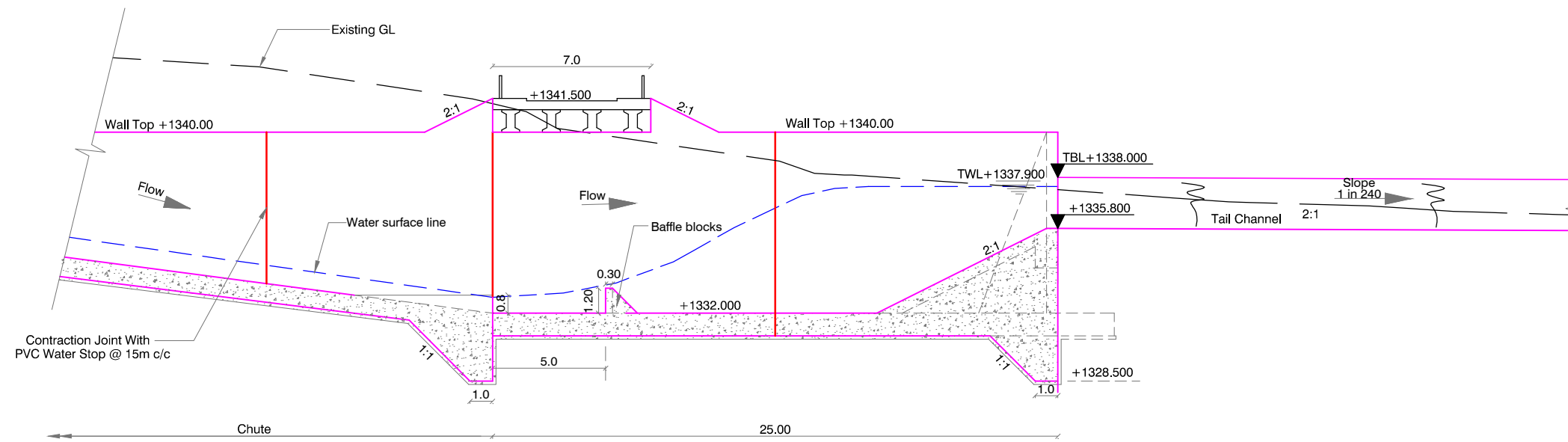
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|---------------|---|
| Scale | |
| Client : |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | DETAILS OF SIDE CHANNEL SPILLWAY PLAN & SPILLWAY SECTION |
| Consultants : |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-03 |
| Date | 17-06-2019 |

NOTES:

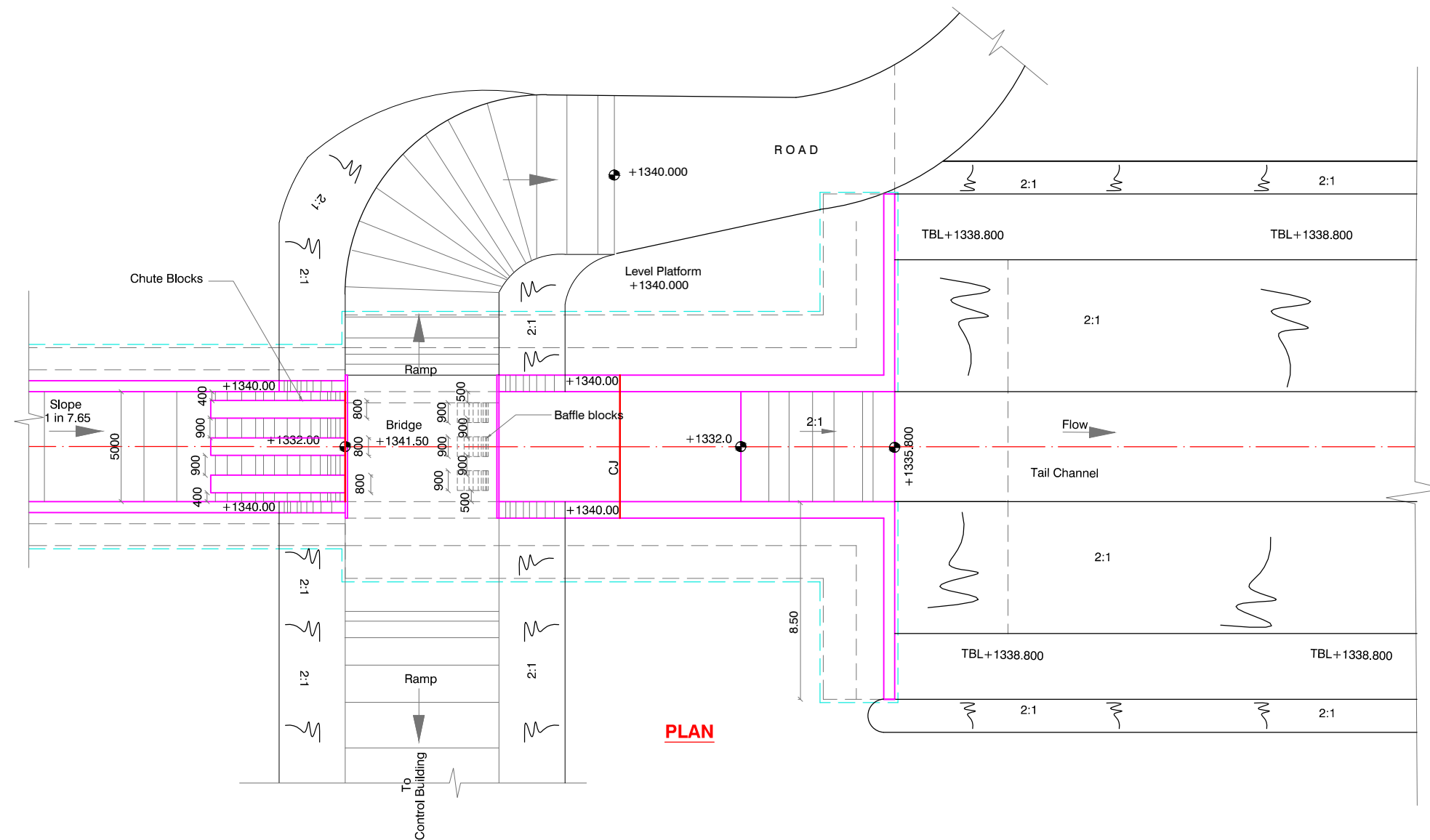
1. All dimensions and levels in metres unless otherwise specified.
2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:



OGL - Original Ground Level



SECTION



PLAN

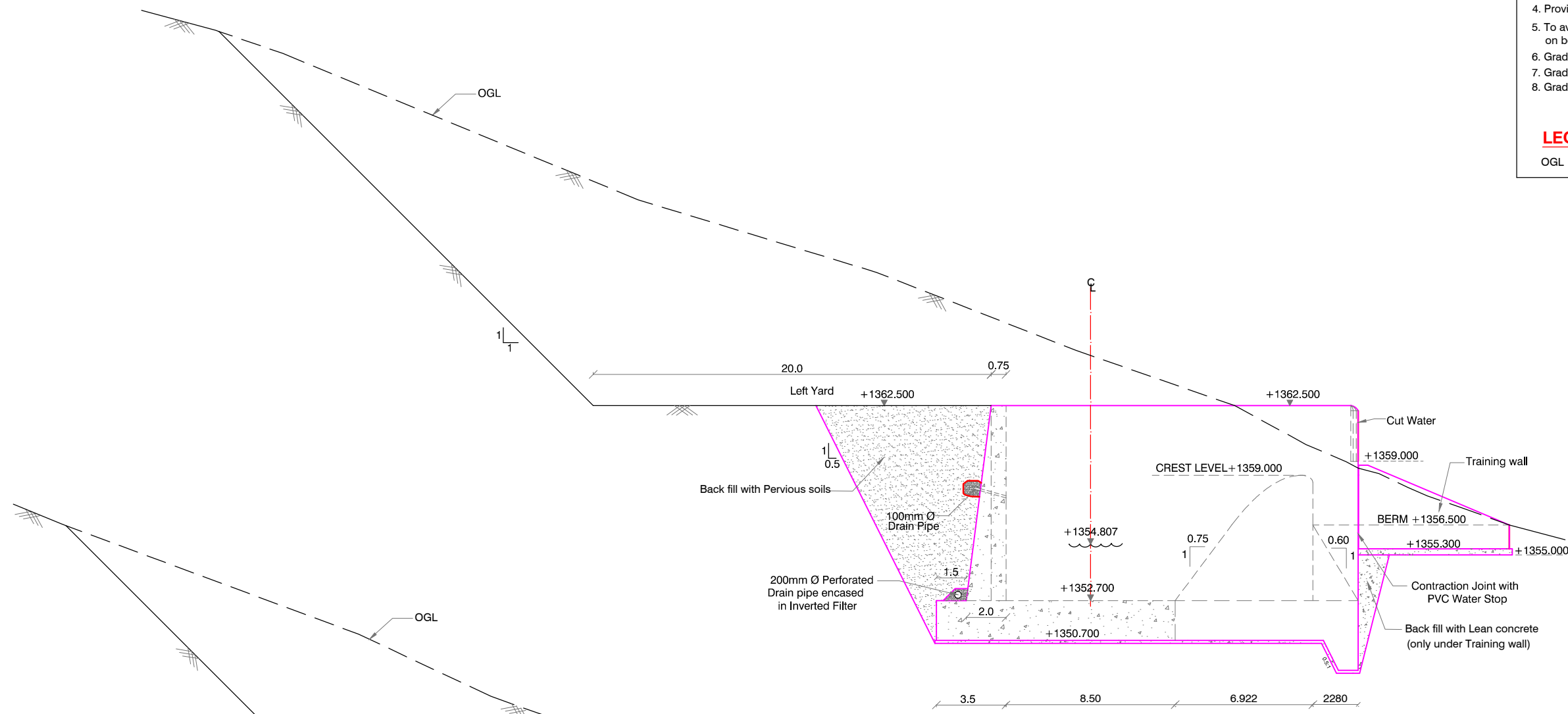
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|---------------|--|
| Scale | |
| Client : |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | DETAILS OF STILLING BASIN |
| Consultants : |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web: www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-04 |
| Date | 17-06-2019 |

NOTES:

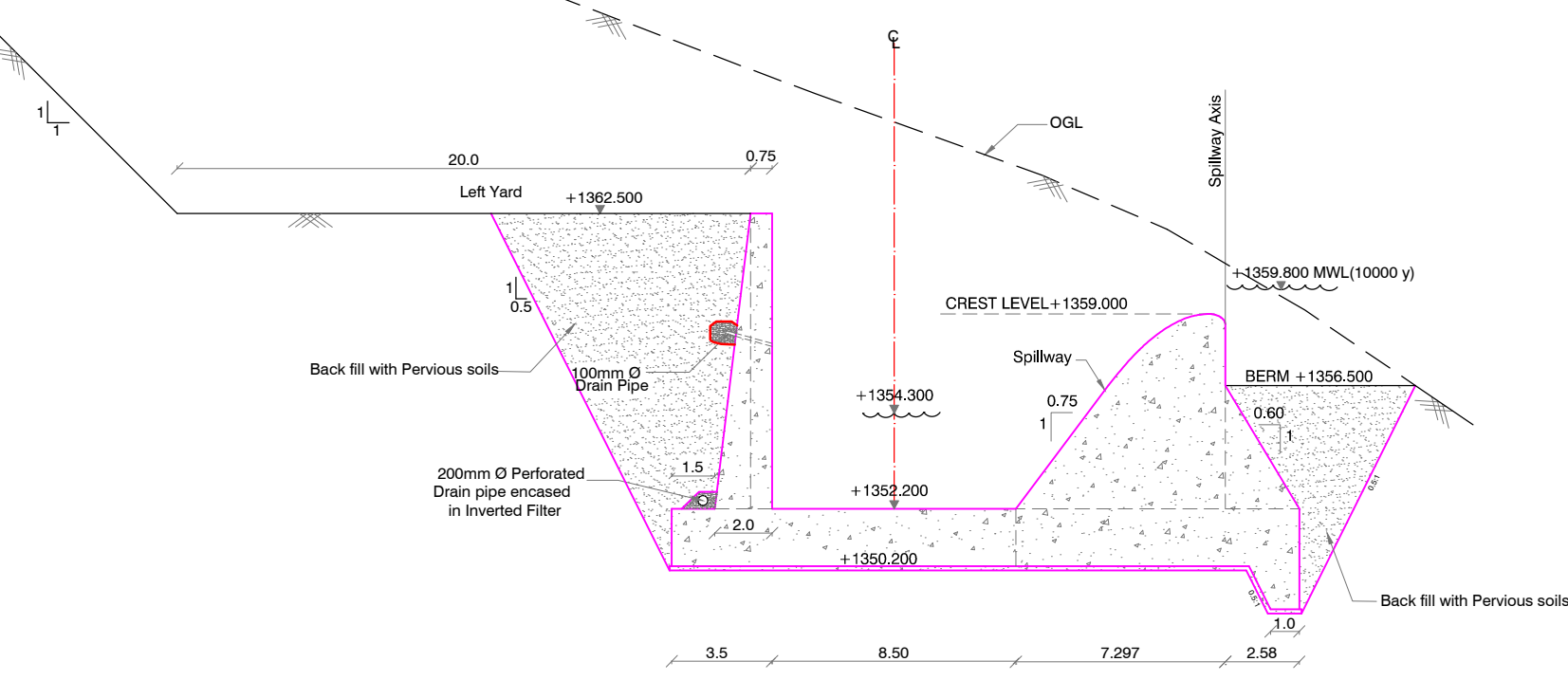
1. All dimensions and levels in metres unless otherwise specified.
2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:



OGL - Original Ground Level



SECTION : A-A



SECTION : B-B

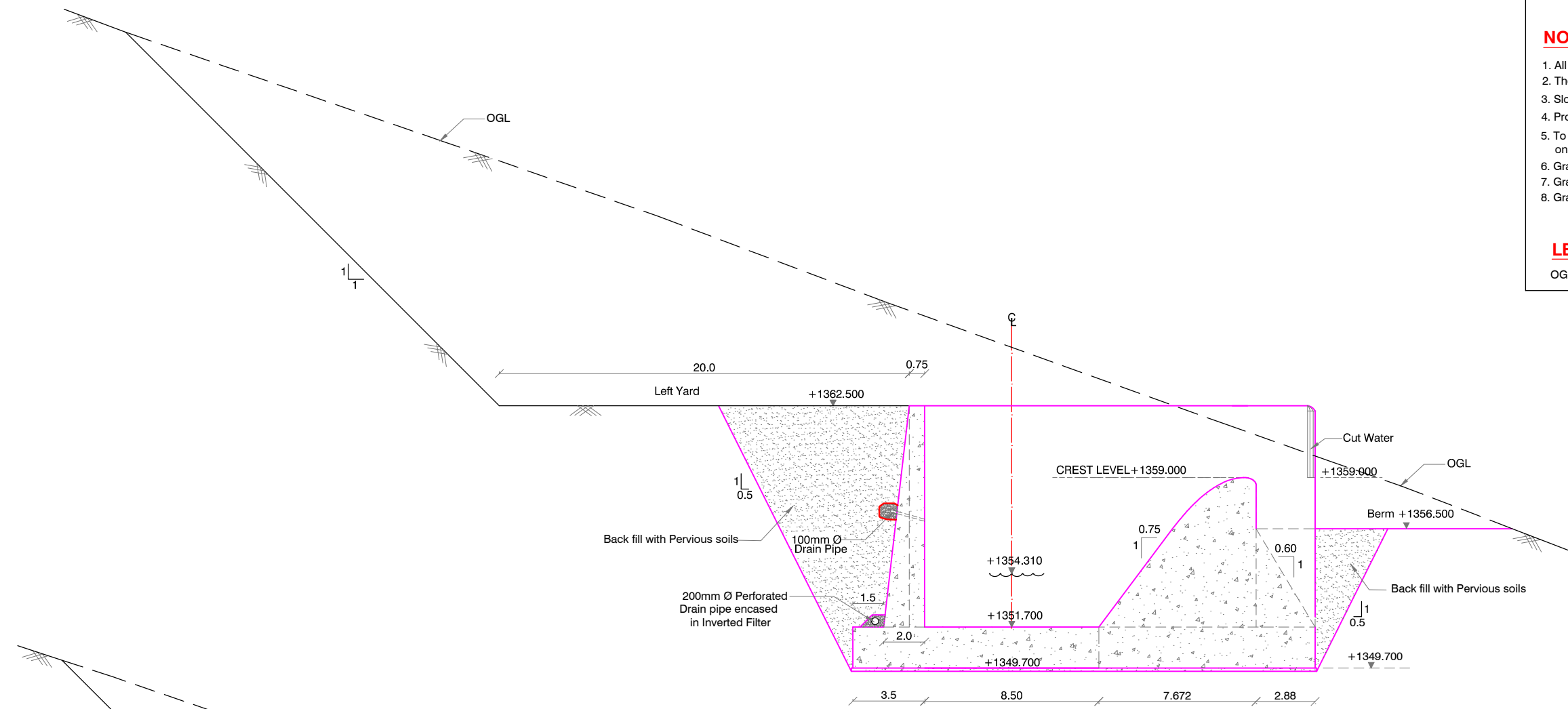
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|---------------|---|
| Scale | |
| Client : |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | SIDE CHANNEL SPILLWAY DETAILS OF SECTIONS |
| Consultants : |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-05 |
| Date | 17-06-2019 |

NOTES:

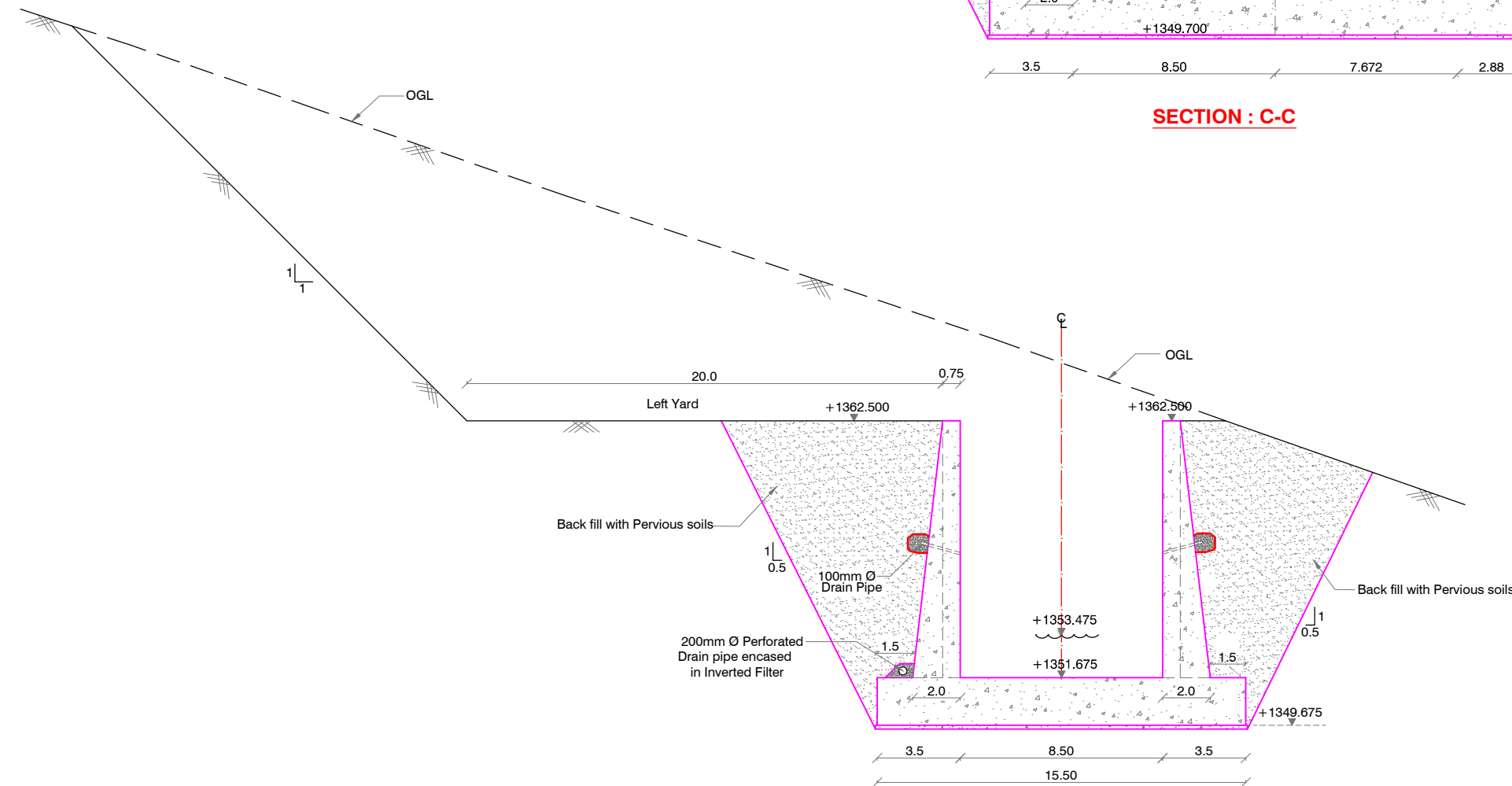
1. All dimensions and levels in metres unless otherwise specified.
2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:



OGL - Original Ground Level



SECTION : C-C



SECTION : D-D

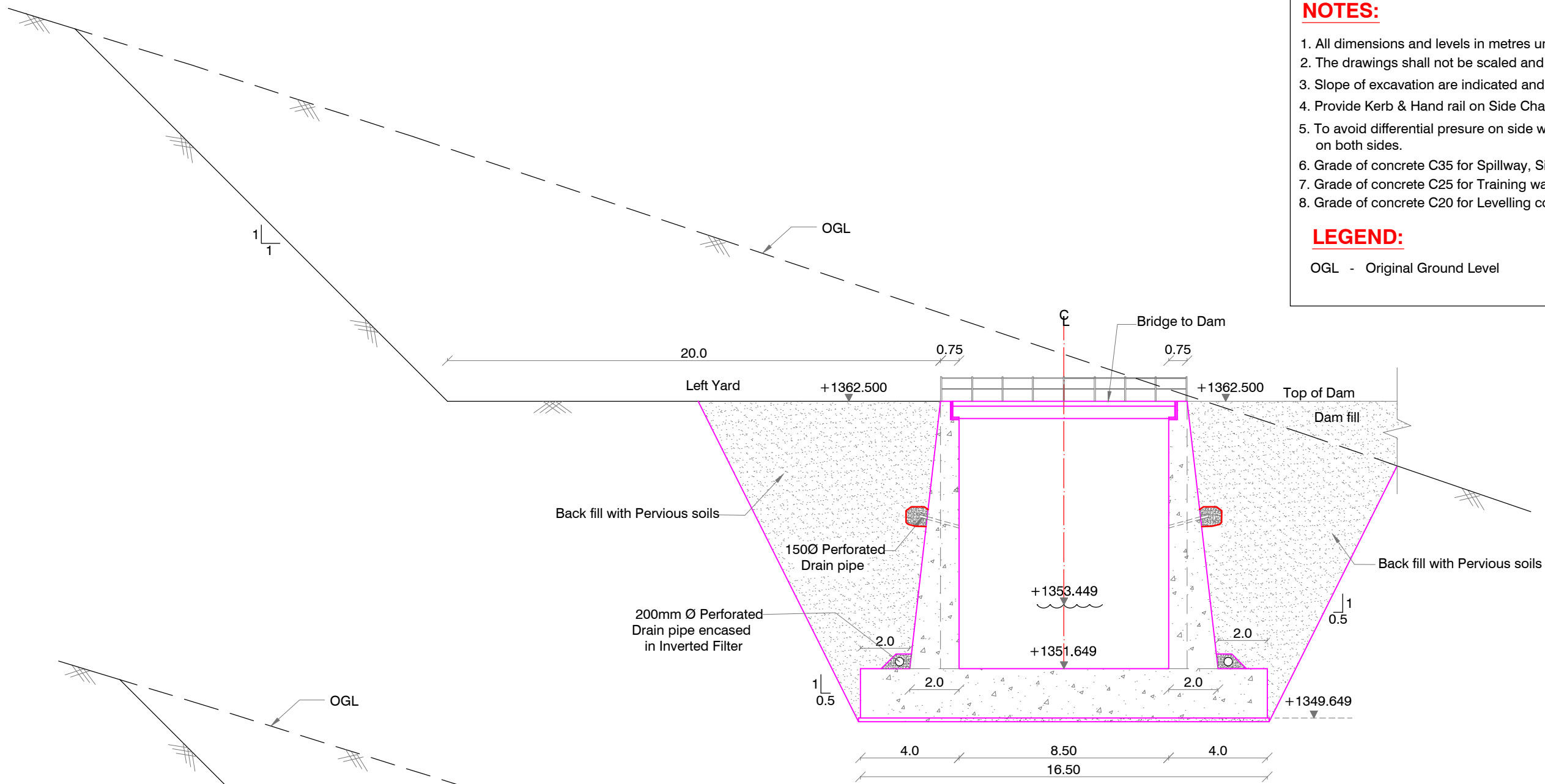
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| Scale | |
| Client : |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATION SCHEME |
| Title : | SIDE CHANNEL SPILLWAY DETAILS OF SECTIONS |
| Consultants : |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-06 |
| Date | 17-06-2019 |

NOTES:

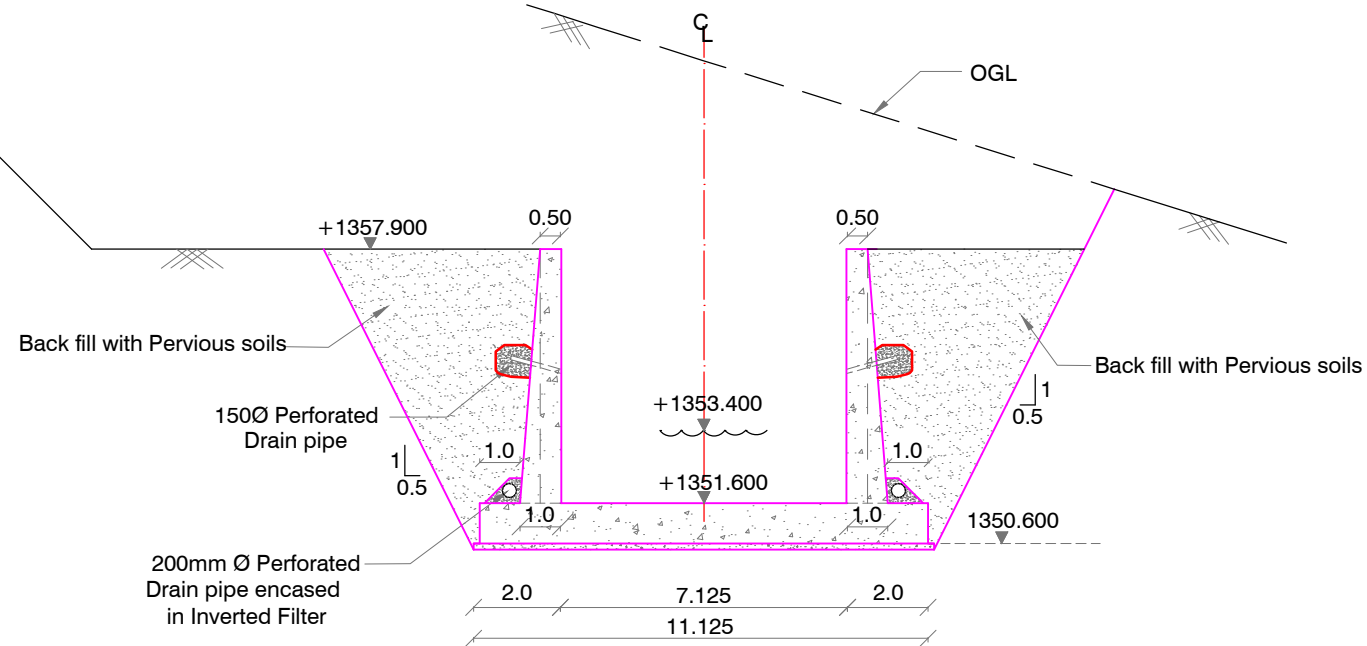
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2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:



OGL - Original Ground Level

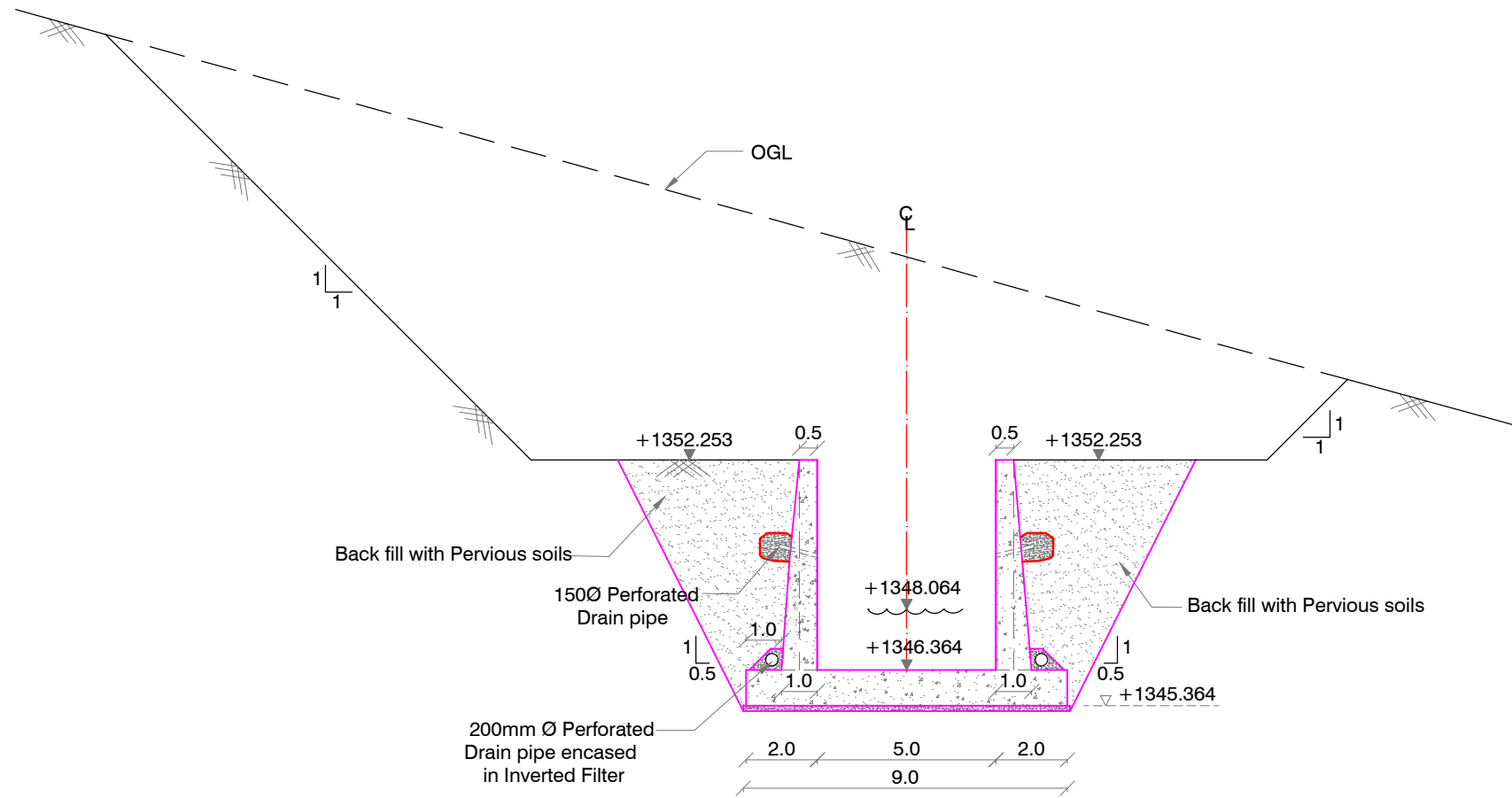


SECTION : E-E

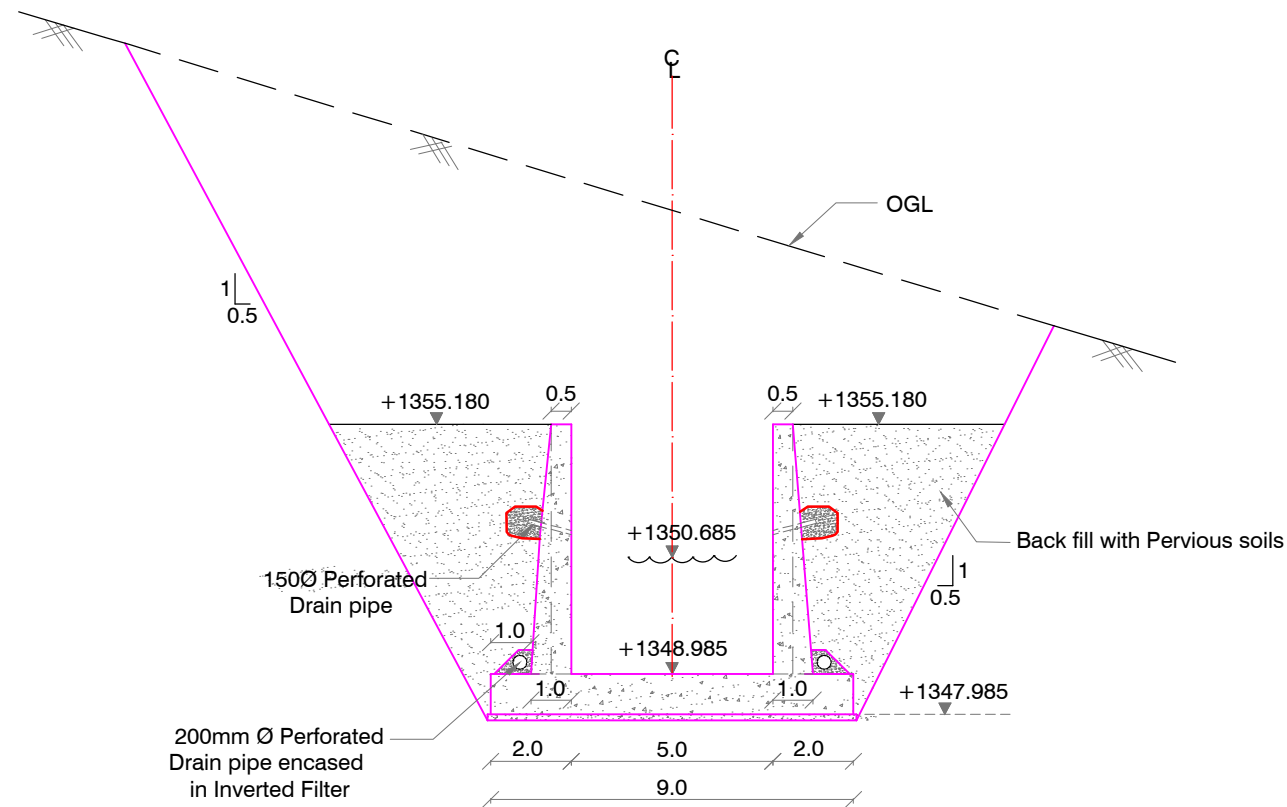


SECTION : F-F

| | |
|-------------|---|
| Scale | |
| Client |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project | KABUYANDA IRRIGATION SCHEME |
| Title | SIDE CHANNEL SPILLWAY DETAILS OF SECTIONS |
| Consultants |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-07 |
| Date | 17-06-2019 |



SECTION : G-G





SECTION : H-H

NOTES:

1. All dimensions and levels in metres unless otherwise specified.
2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:

OGL - Original Ground Level

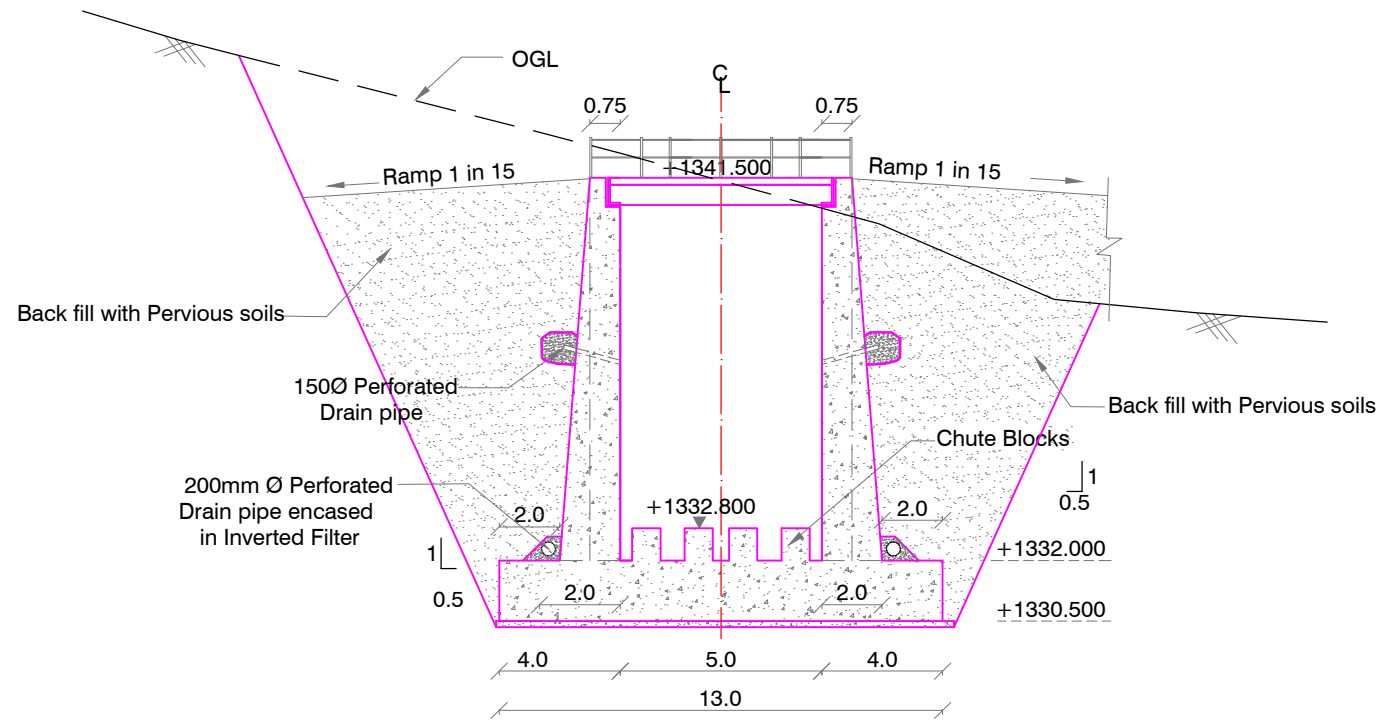
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| Scale | |
| Client |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project | KABUYANDA IRRIGATION SCHEME |
| Title | SIDE CHANNEL SPILLWAY DETAILS OF SECTIONS |
| Consultants |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-08 |
| Date | 17-06-2019 |

NOTES:

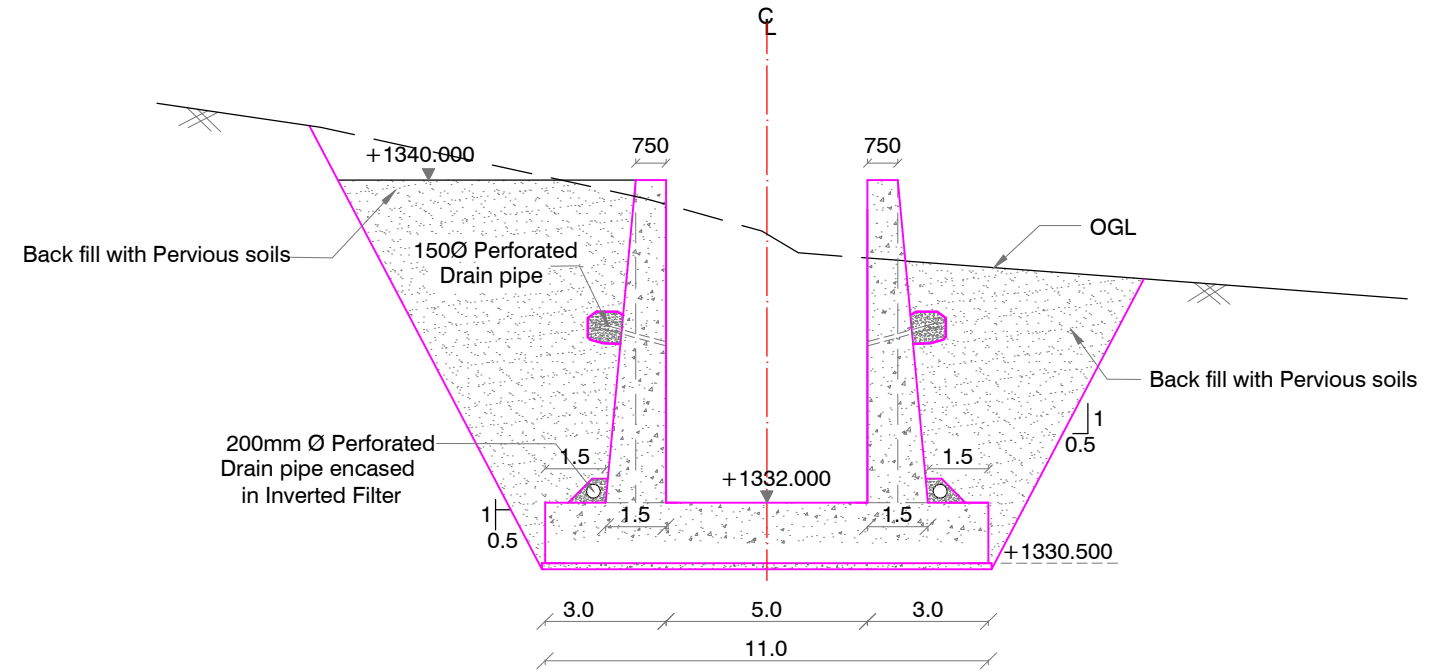
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2. The drawings shall not be scaled and only figured dimensions shall be considered.
3. Slope of excavation are indicated and shall be as per soil conditions
4. Provide Kerb & Hand rail on Side Channel / Chute / Stilling basin Walls.
5. To avoid differential pressure on side walls backfilling shall be done simultaneously on both sides.
6. Grade of concrete C35 for Spillway, Side walls & Base slab.
7. Grade of concrete C25 for Training wall.
8. Grade of concrete C20 for Levelling concrete.

LEGEND:

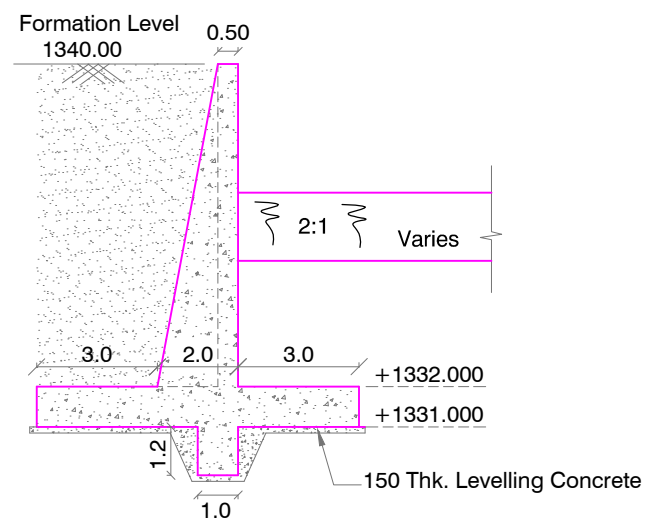
OGL - Original Ground Level



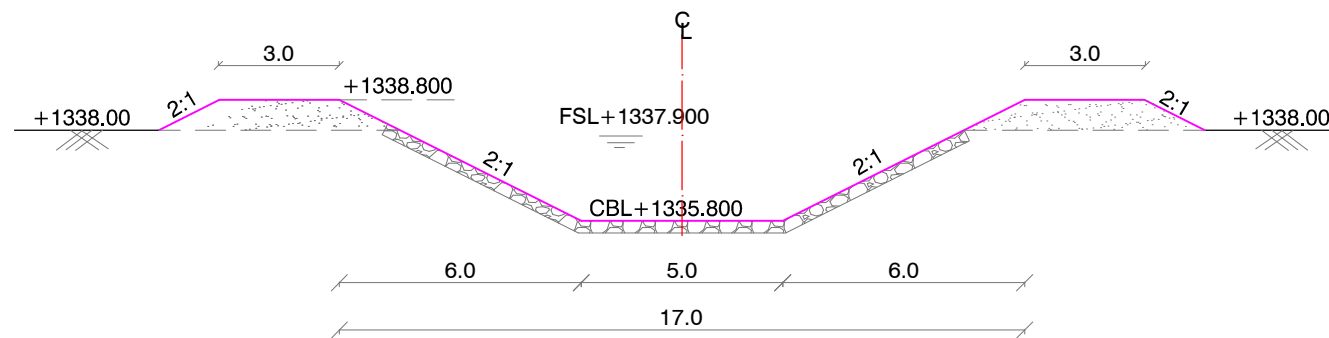
SECTION : J-J





SECTION : K-K

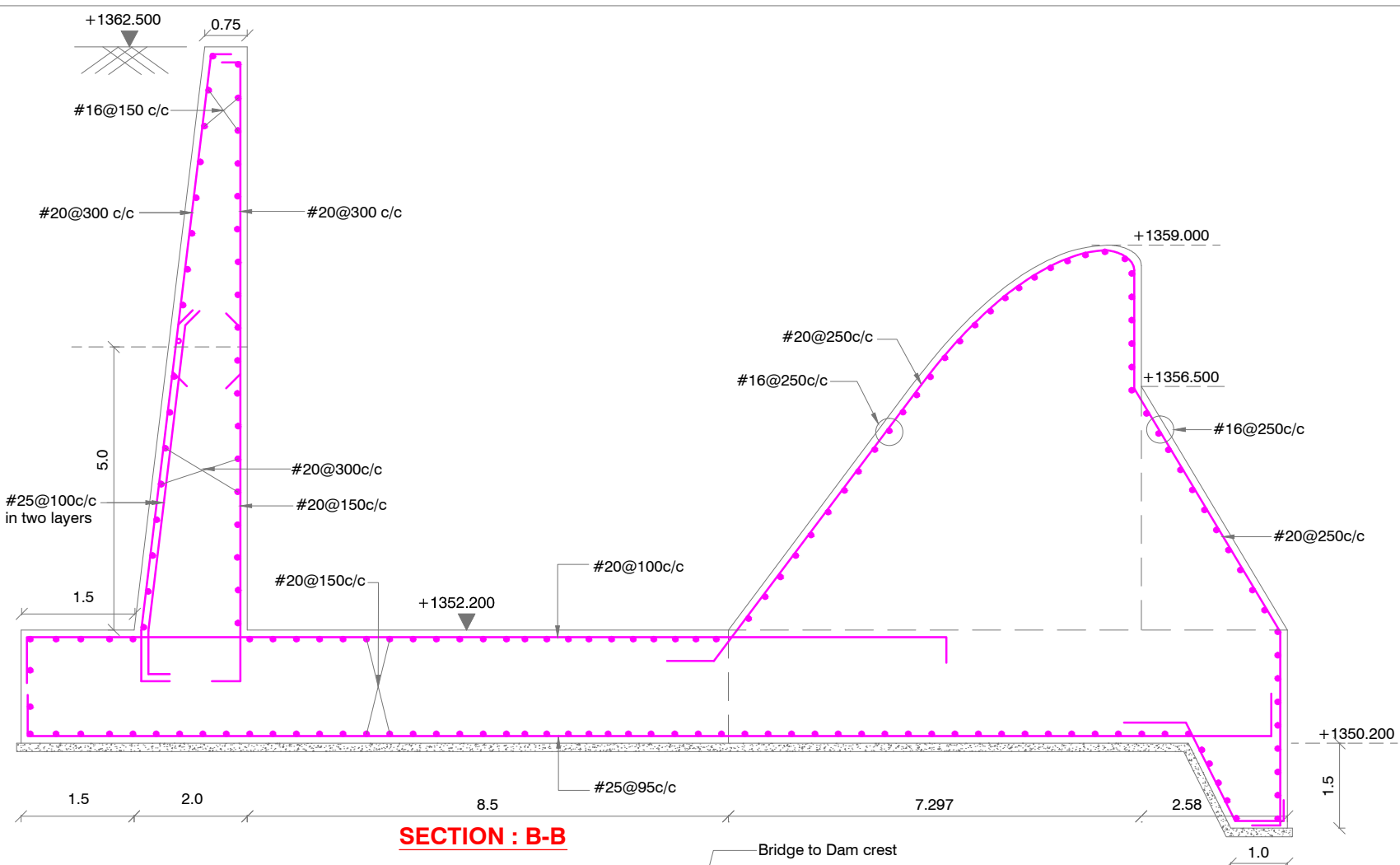


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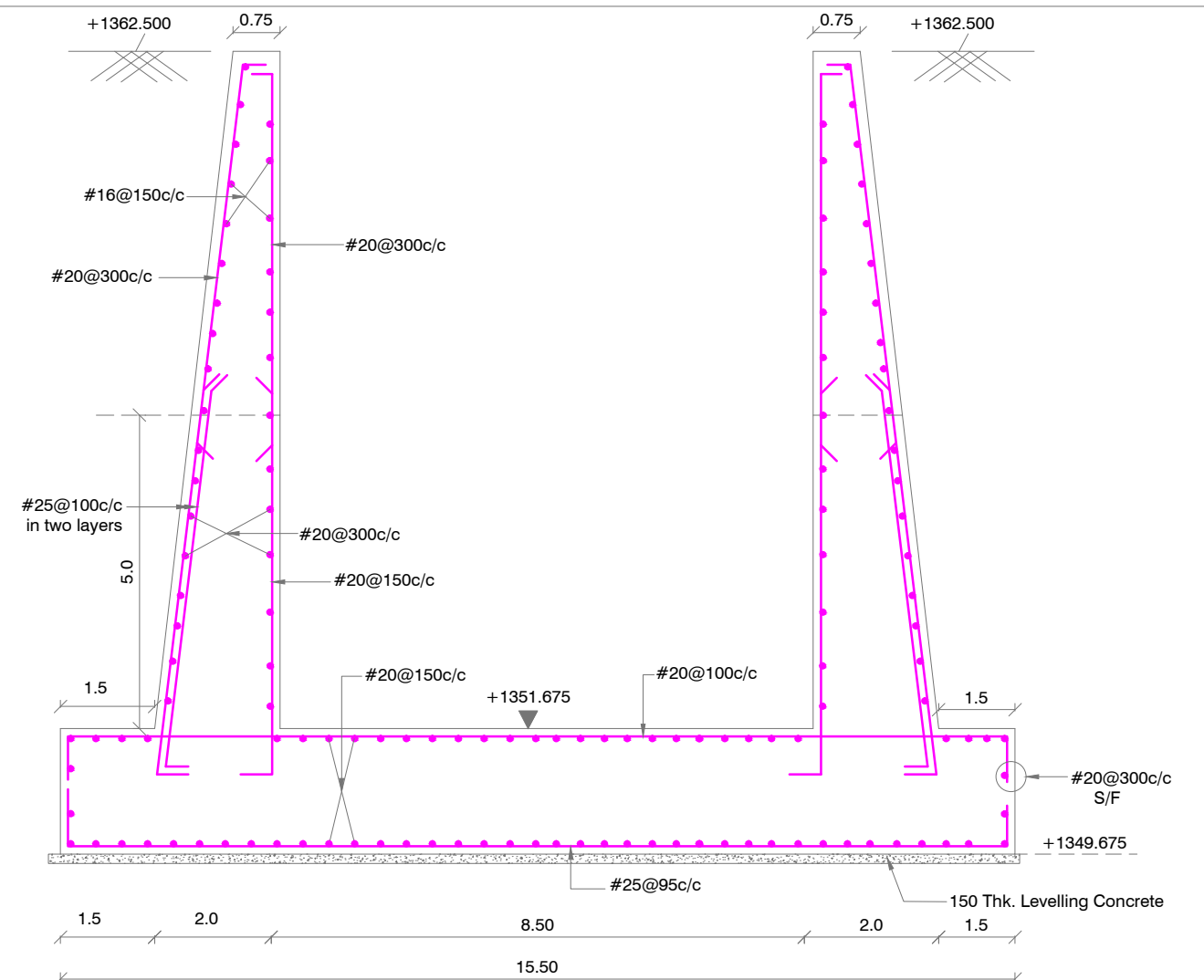


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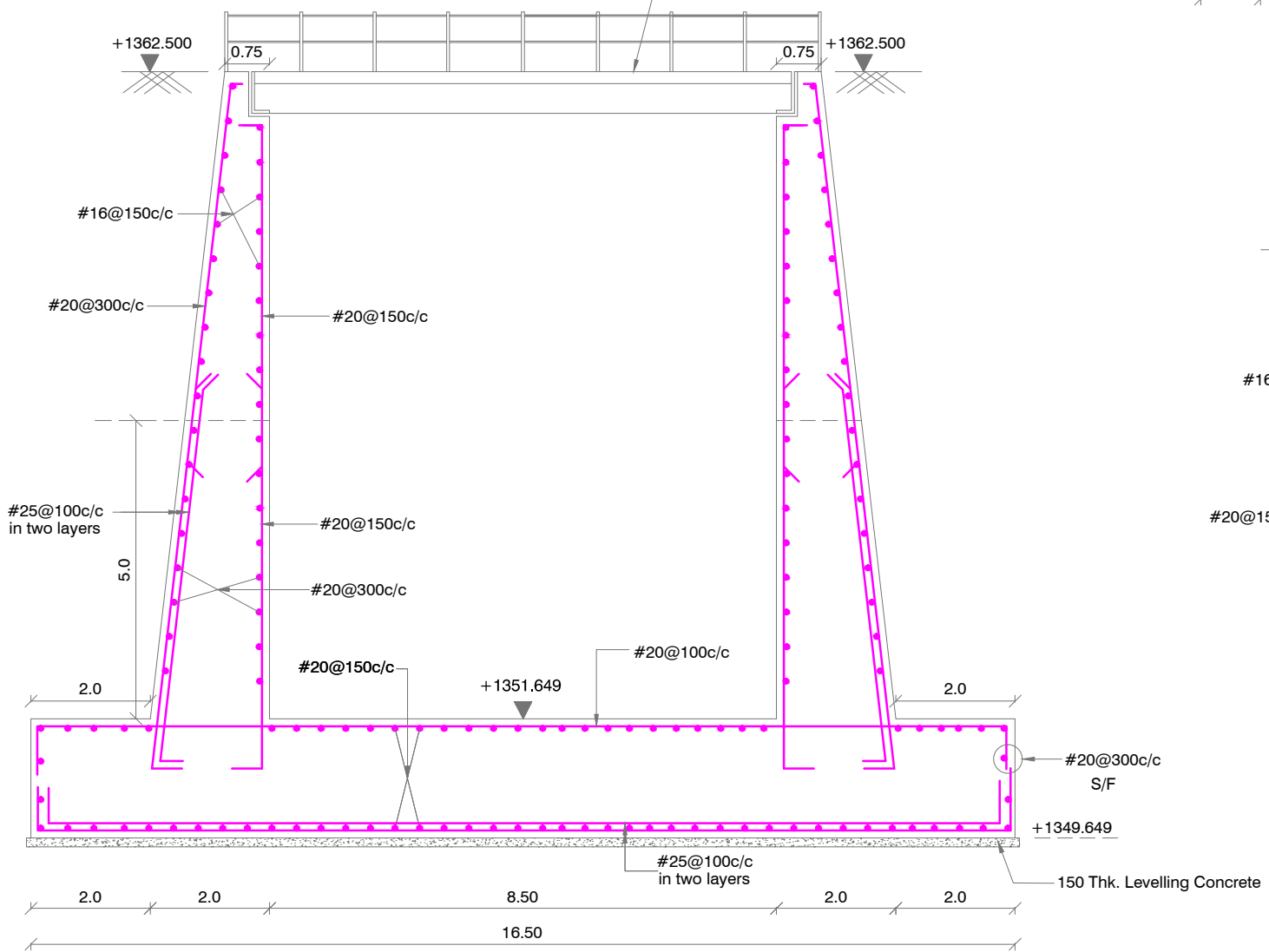
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| Scale | |
| Client |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project | KABUYANDA IRRIGATION SCHEME |
| Title | SIDE CHANNEL SPILLWAY DETAILS OF SECTIONS |
| Consultants |  aarvee associates architects engineers & consultants pvt.ltd. Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web: www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-09 |
| Date | 17-06-2019 |



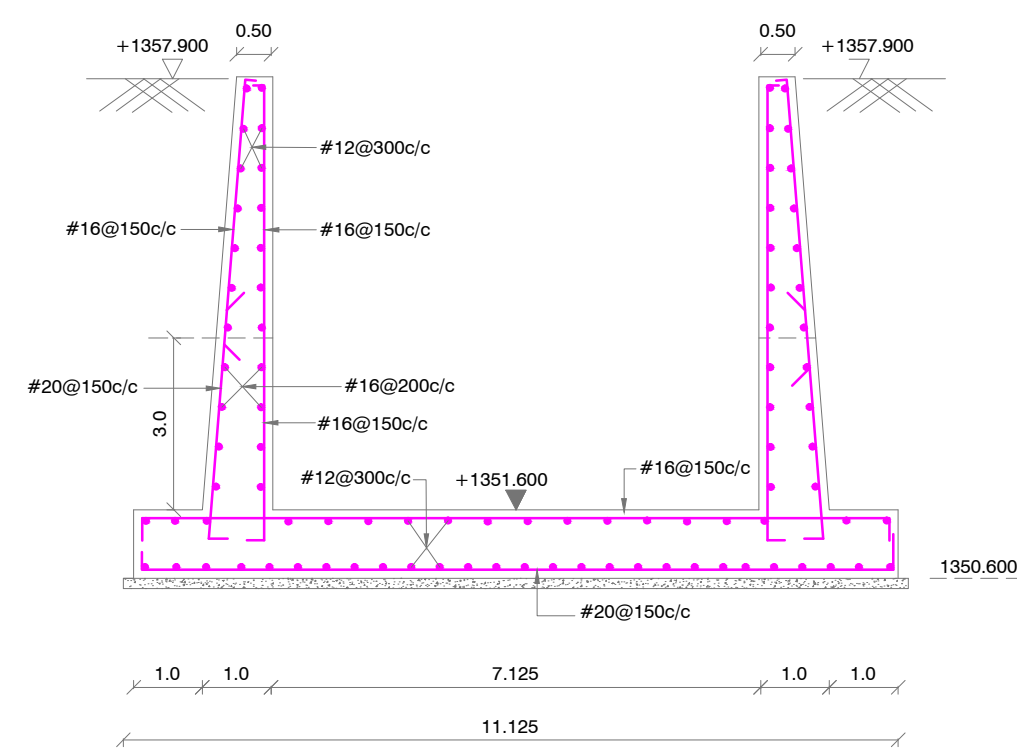
SECTION : B-B



SECTION : D-D



SECTION : E-E




SECTION : F-F

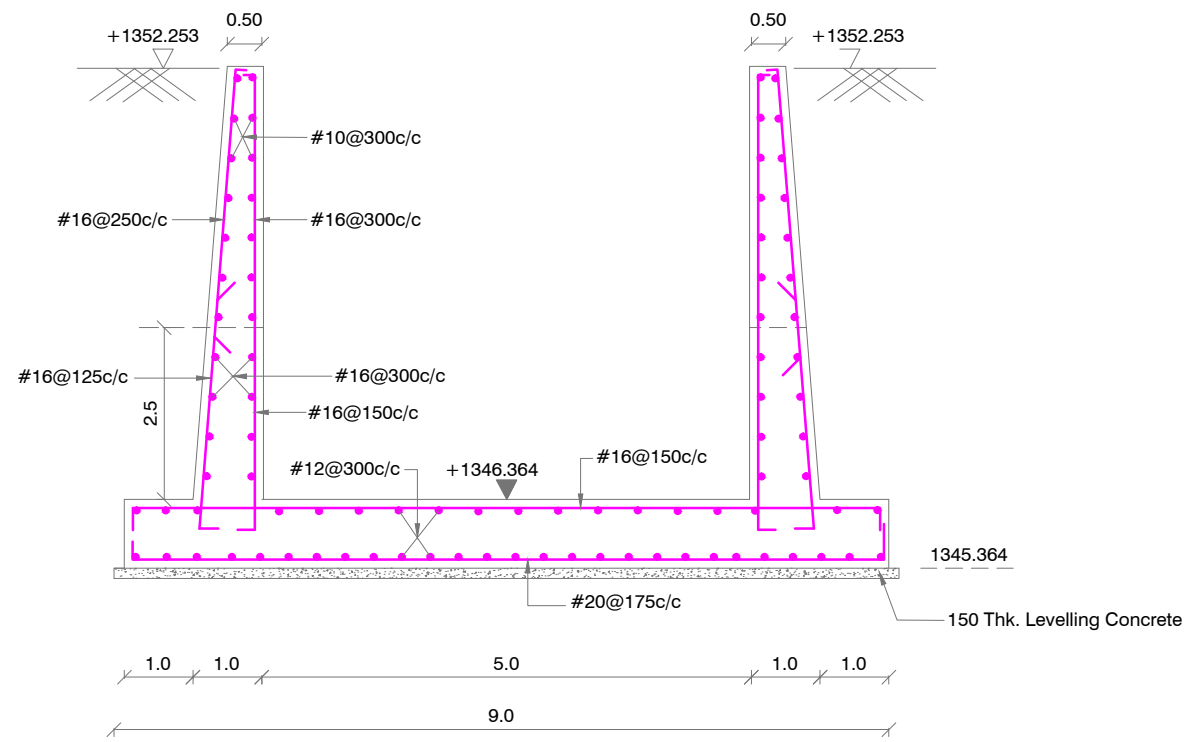
NOTES:

1. ALL DIMENSIONS ARE IN METRES & LEVELS ARE IN METRES.
2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS.
3. DO NOT COUNT BARS. BARS ARE SHOWN INDICATIVELY FOR CLARITY OF DETAILING. BARS SHALL BE PROVIDED AT THE SPACING / NO. SPECIFIED IN THE DRAWING.
4. GRADE OF CONCRETE IS C35
5. LEVELLING CONCRETE IS CC M15.
6. LEVELS INDICATED ARE TOP OF CONCRETE.
7. USE HYSD BARS OF YIELD STRENGTH 450N/Sq.mm
8. PROVIDE CLEAR COVER FOR RAFT & WALLS : 50 mm.
9. THE PROVISIONS MADE IN EURO CODES AND OTHER RELEVANT CODES SHALL BE FOLLOWED IN EXECUTION.

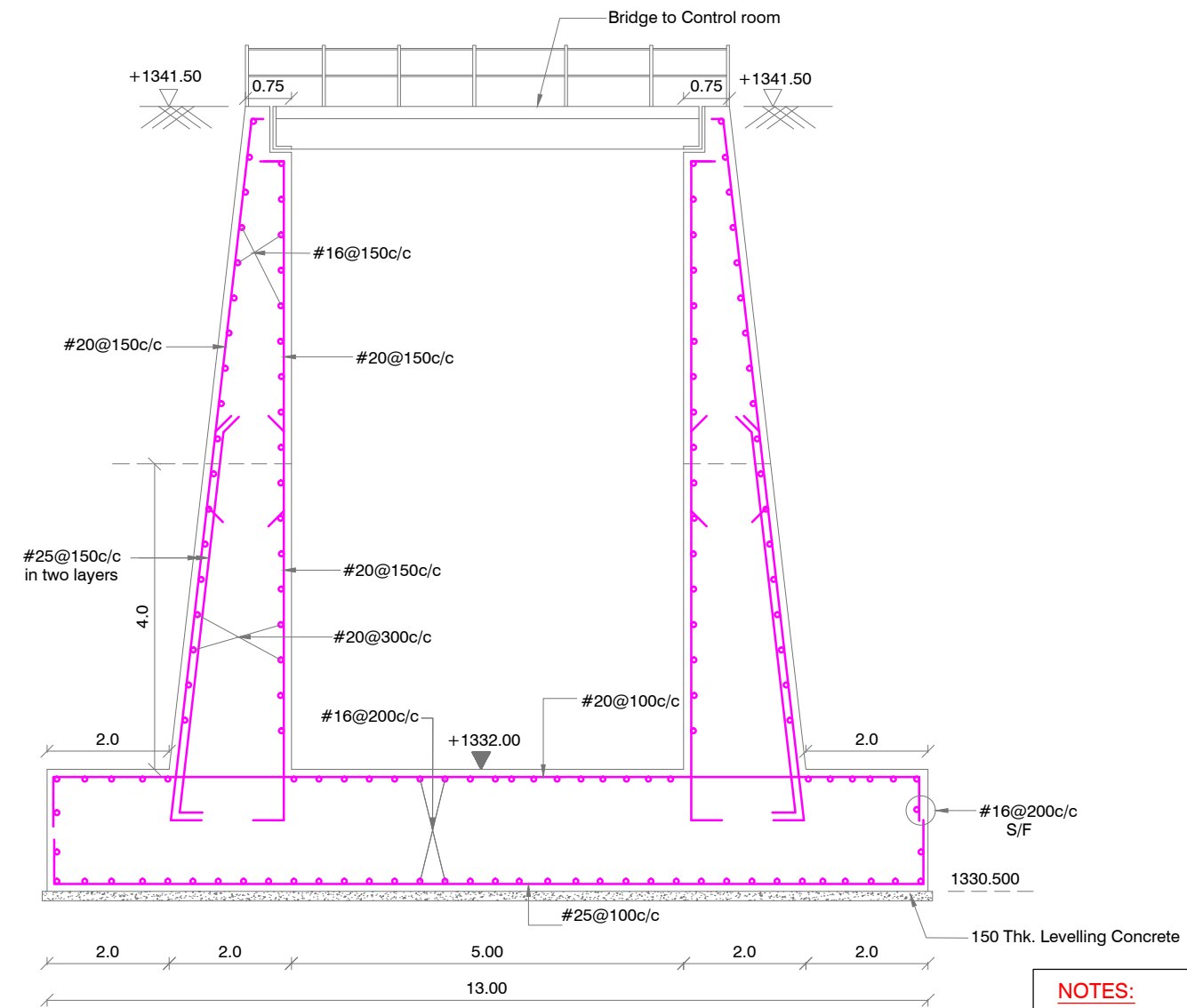
LEGEND:

- Dia. of Bar
S/F - Side Face Reinforcement

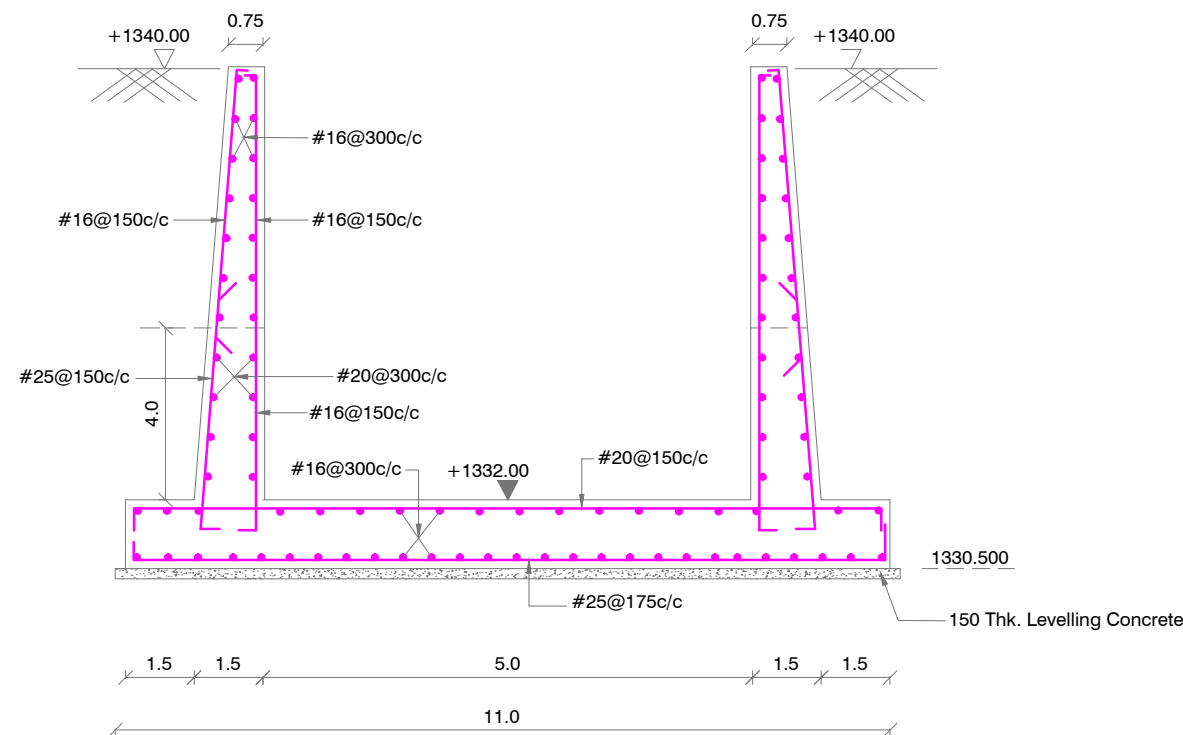
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| Client | REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project | KABUYANDA IRRIGATION SCHEME |
| Title | SIDE CHANNEL SPILLWAY REINFORCEMENT DETAILS OF TROUGH |
| Consultants |  aarvee associates architects engineers & consultants pvt.ltd. Revula Residency, Sri Nagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web: www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-10 |
| Date | 17-06-2019 |



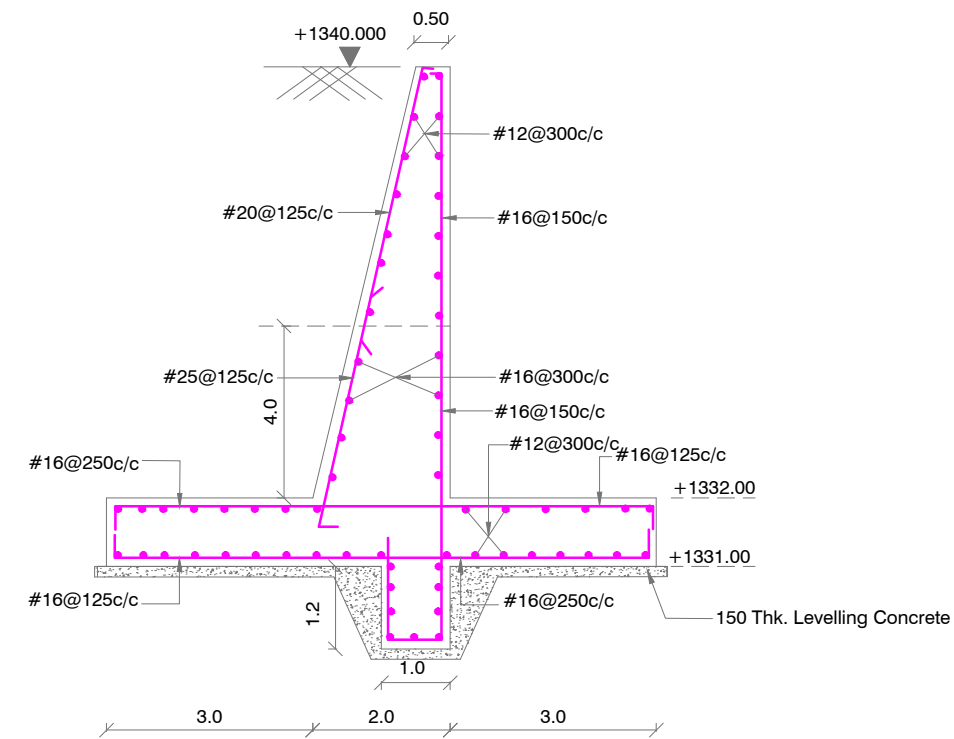
SECTION : G-G



SECTION : J-J



SECTION : K-K





SECTION : L-L

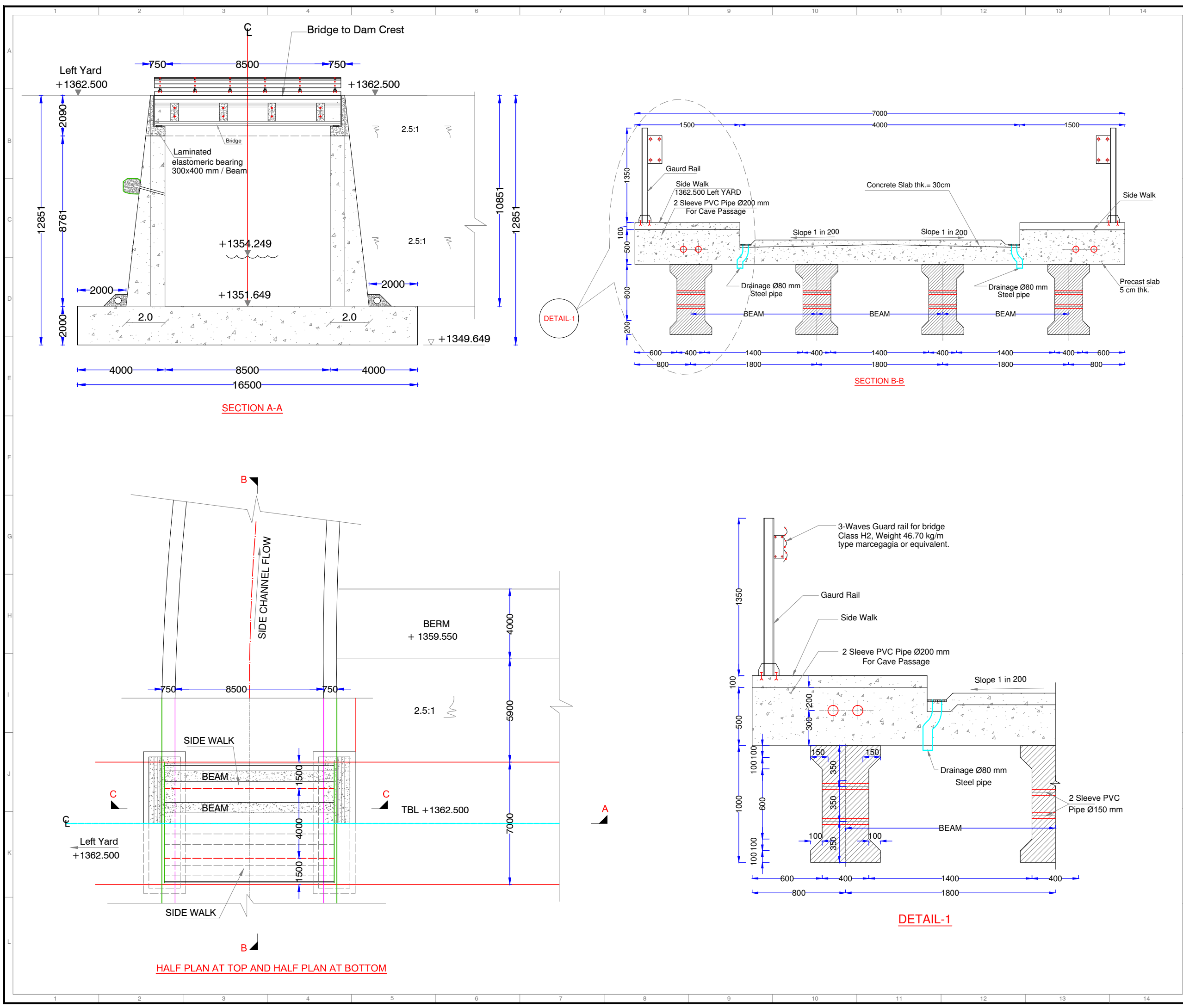
NOTES:

1. ALL DIMENSIONS ARE IN METRES & LEVELS ARE IN METRES.
2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS.
3. DO NOT COUNT BARS. BARS ARE SHOWN INDICATIVELY FOR CLARITY OF DETAILING. BARS SHALL BE PROVIDED AT THE SPACING / NO. SPECIFIED IN THE DRAWING.
4. GRADE OF CONCRETE IS C35
5. LEVELLING CONCRETE IS CC M15.
6. LEVELS INDICATED ARE TOP OF CONCRETE.
7. USE HYSD BARS OF YIELD STRENGTH 450N/Sq.mm
8. PROVIDE CLEAR COVER FOR RAFT & WALLS : 50 mm.
9. THE PROVISIONS MADE IN EURO CODES AND OTHER RELEVANT CODES SHALL BE FOLLOWED IN EXECUTION.

LEGEND:


- # - Dia. of Bar
- S/F - Side Face Reinforcement

| | |
|-------------|---|
| Scale | |
| Client |  REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project | KABUYANDA IRRIGATION SCHEME |
| Title | SIDE CHANNEL SPILLWAY REINFORCEMENT DETAILS OF TROUGH |
| Consultants |  aarvee associates architects engineers & consultants pvt.ltd. Revula Residency, Sri Nagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web: www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/SCS-11 |
| Date | 17-06-2019 |



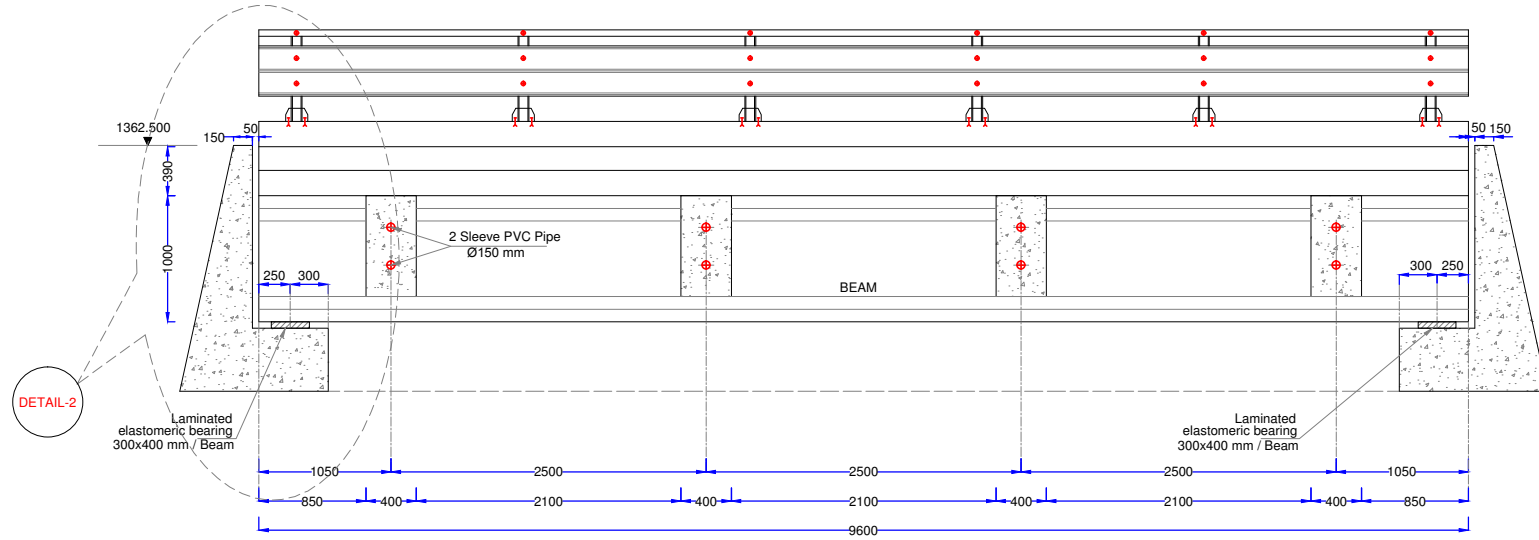
NOTES:-

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- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

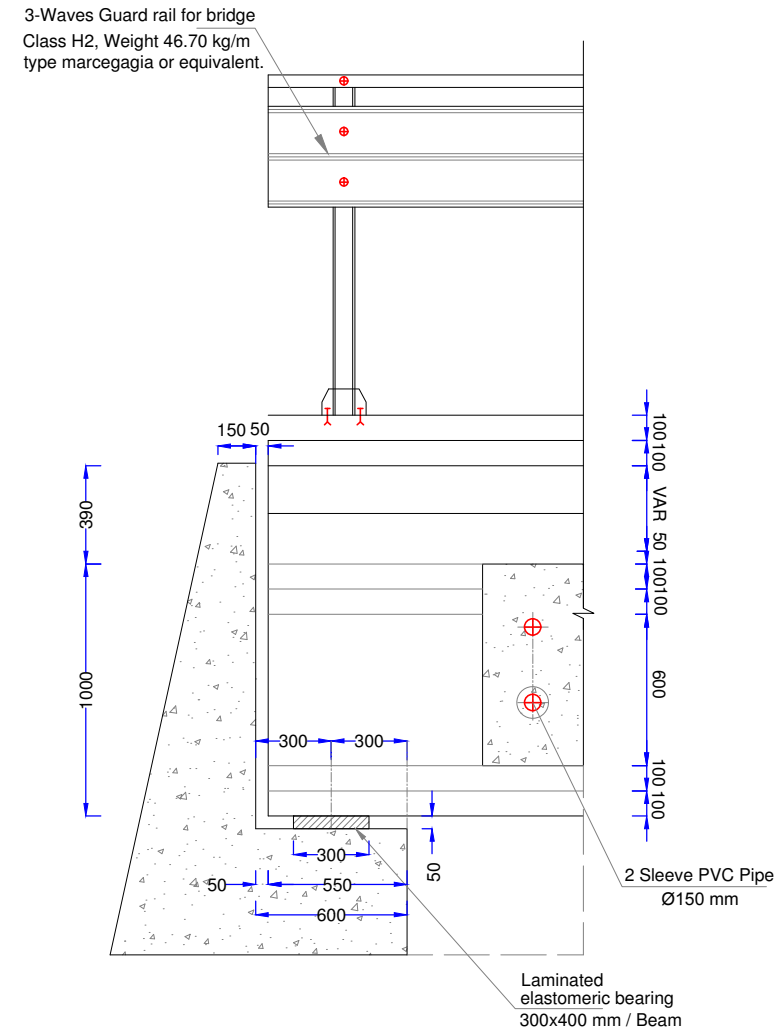
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| Client : | REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT |
| Project : | KABUYANDA IRRIGATON SCHEME |
| Title : | SPILLWAY BRIDGE DETAILS |
| Consultants : |  aarvee associates architects engineers & consultants pvt.ltd. Revula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91-40-23737633 Fax: +91-4023762277 e-mail: irrigation@aarvee.net, web:www.aarvee.net |
| Drg. No. | AA/IRR/2238/KIS/BR/01 |
| Date | 14-06-2019 |

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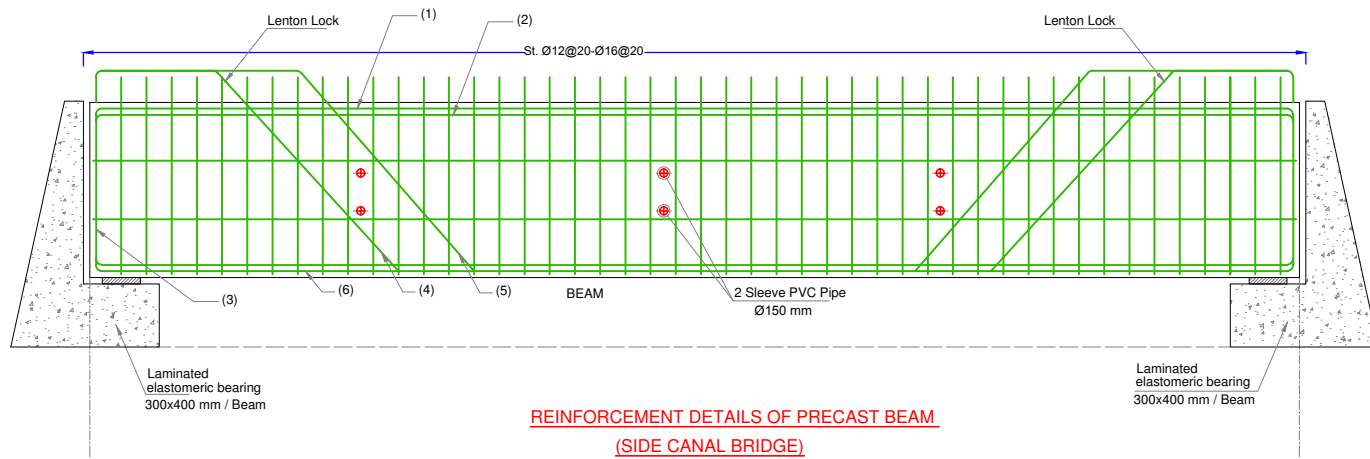
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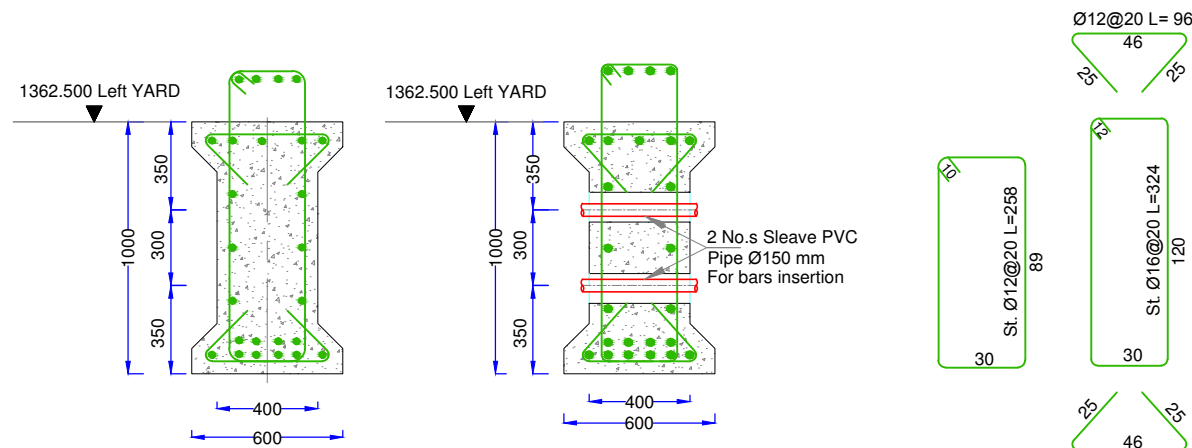
SECTION C-C (SIDE CANAL BRIDGE)



DETAIL-2



REINFORCEMENT DETAILS OF PRECAST BEAM (SIDE CANAL BRIDGE)



PRECAST BEAM

BAR BENDING SCHEDULE UNDER EARTH

| BAR NO | DIA mm | SHAPE | LENGTH OF BAR mm |
|--------|--------|--------------------------------|------------------|
| 1 | 32 | 9000 | 9000 |
| 2 | 32 | 100 9407 100 | 9607 |
| 3 | 32 | 850 300 1700 5370 1700 300 850 | 11070 |
| 4 | 32 | 300 300 1700 6470 1700 300 300 | 11070 |
| 5 | 32 | 850 9470 850 | 11070 |
| 6 | 32 | 9000 | 9000 |

Scale :-

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

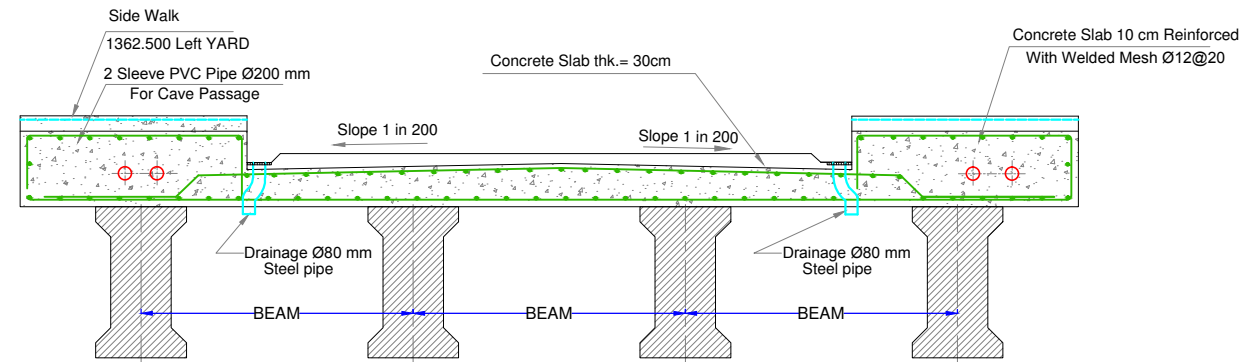
Title : **REINFORCEMENT DETAILS OF SPILLWAY BRIDGE**

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Residency, Sriragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633 Fax: +91-4023762277
e-mail: irrigation@aarvee.net, web: www.aarvee.net

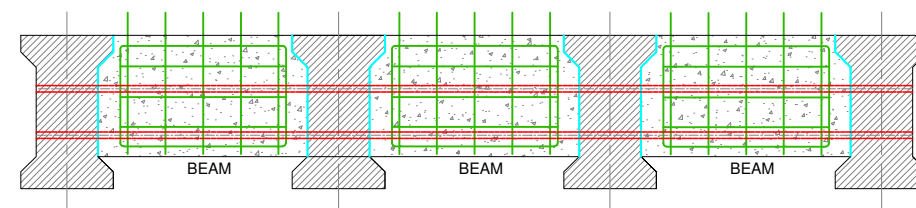
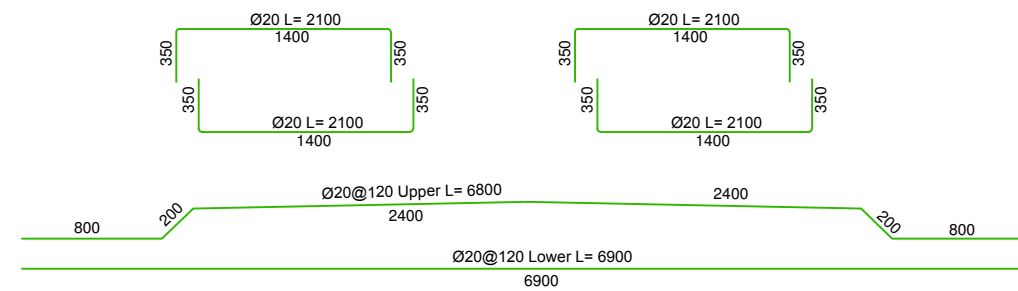
Drg. No. AA/IRR/2238/KIS/BR/ 2a Date 14-06-2019

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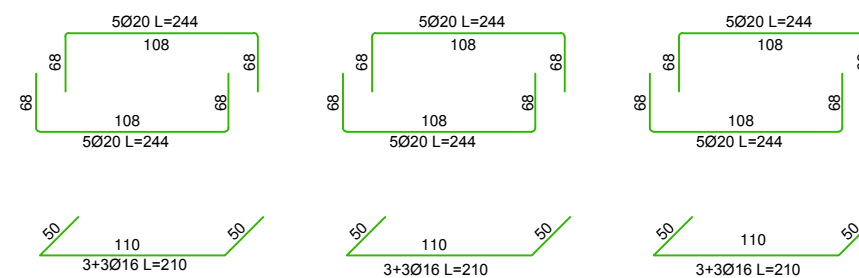
- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



SLAB DETAILS



REINFORCEMENT DETAILS OF SECONDARY BEAM



Scale :-

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

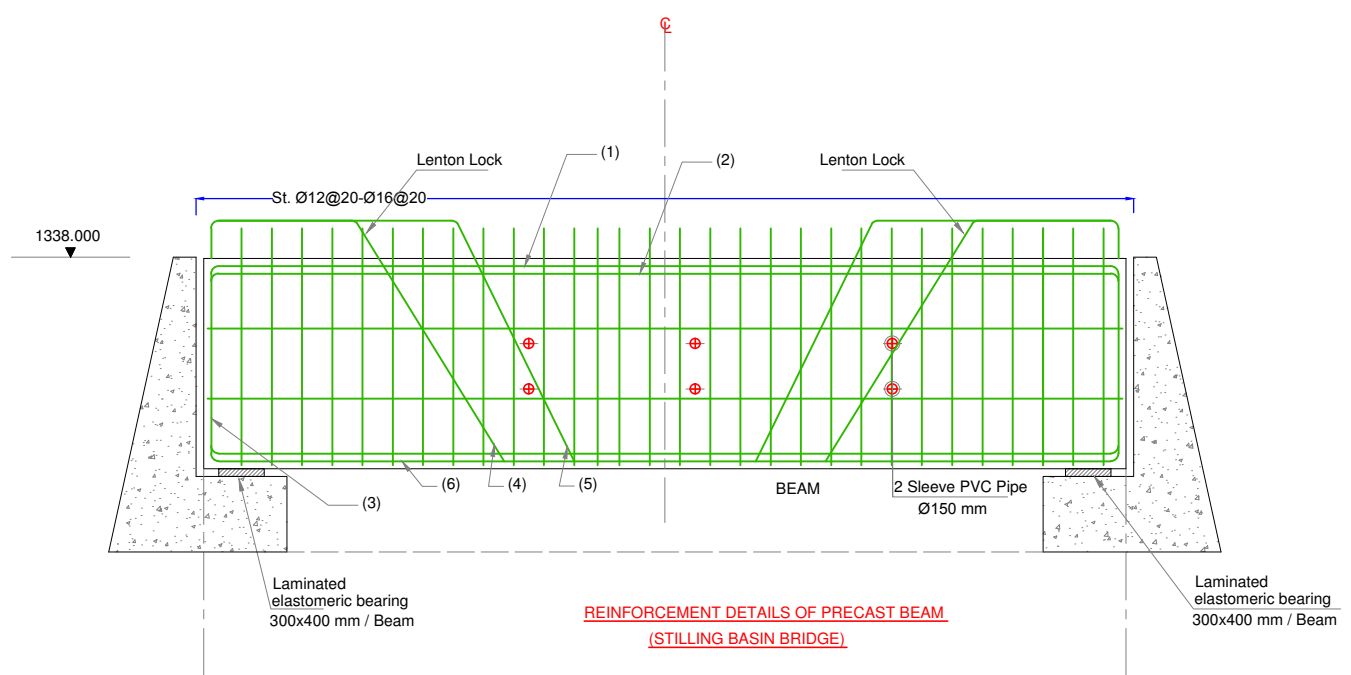
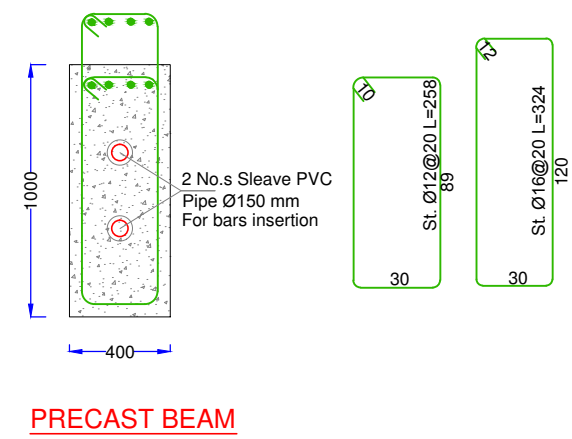
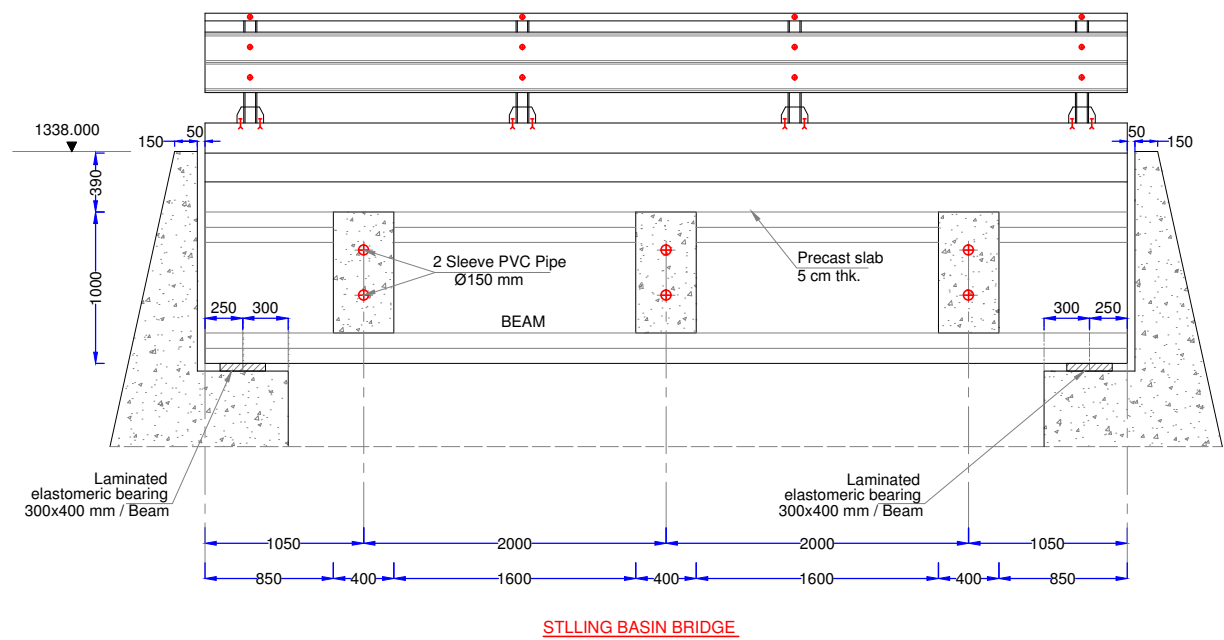
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **REINFORCEMENT DETAILS OF SPILLWAY BRIDGE**

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633 Fax: +91-4023768277
e-mail: irrigation@aarvee.net, web:www.aarvee.net

Drg. No. AA/IRR/2238/KIS/BR/ 2b Date 14-06-2019


NOTES:-
 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



BAR BENDING SCHEDULE UNDER EARTH


| BAR NO | DIA mm | SHAPE | LENGTH OF BAR mm |
|--------|--------|--------------------------------|------------------|
| 1 | 32 | 5200 | 5200 |
| 2 | 32 | 750 6670 750 | 8170 |
| 3 | 32 | 500 500 1700 6200 1700 500 500 | 11600 |
| 4 | 32 | 300 300 1700 6770 1700 300 300 | 11370 |
| 5 | 32 | 850 6870 850 | 8570 |
| 6 | 32 | 5200 | 5200 |

Scale :-

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

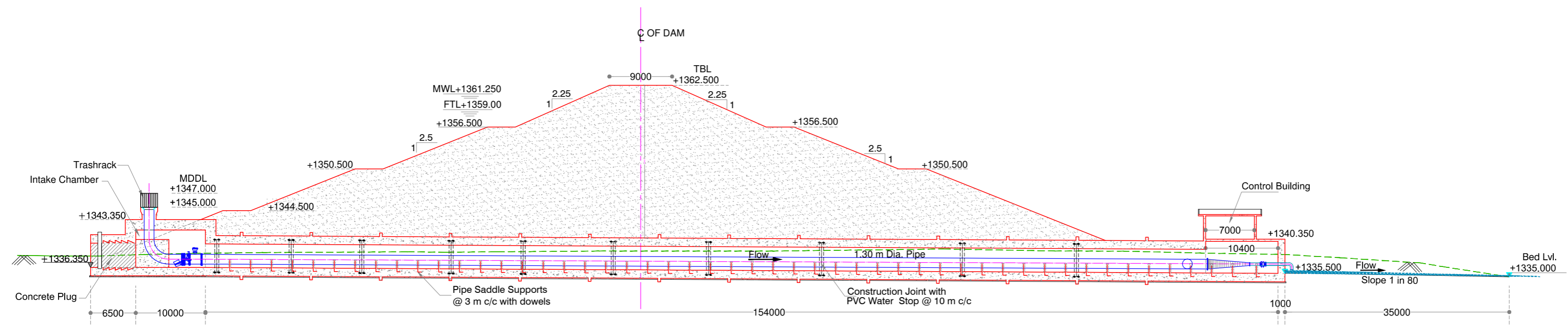
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **REINFORCEMENT DETAILS OF STILLING BASIN BRIDGE**

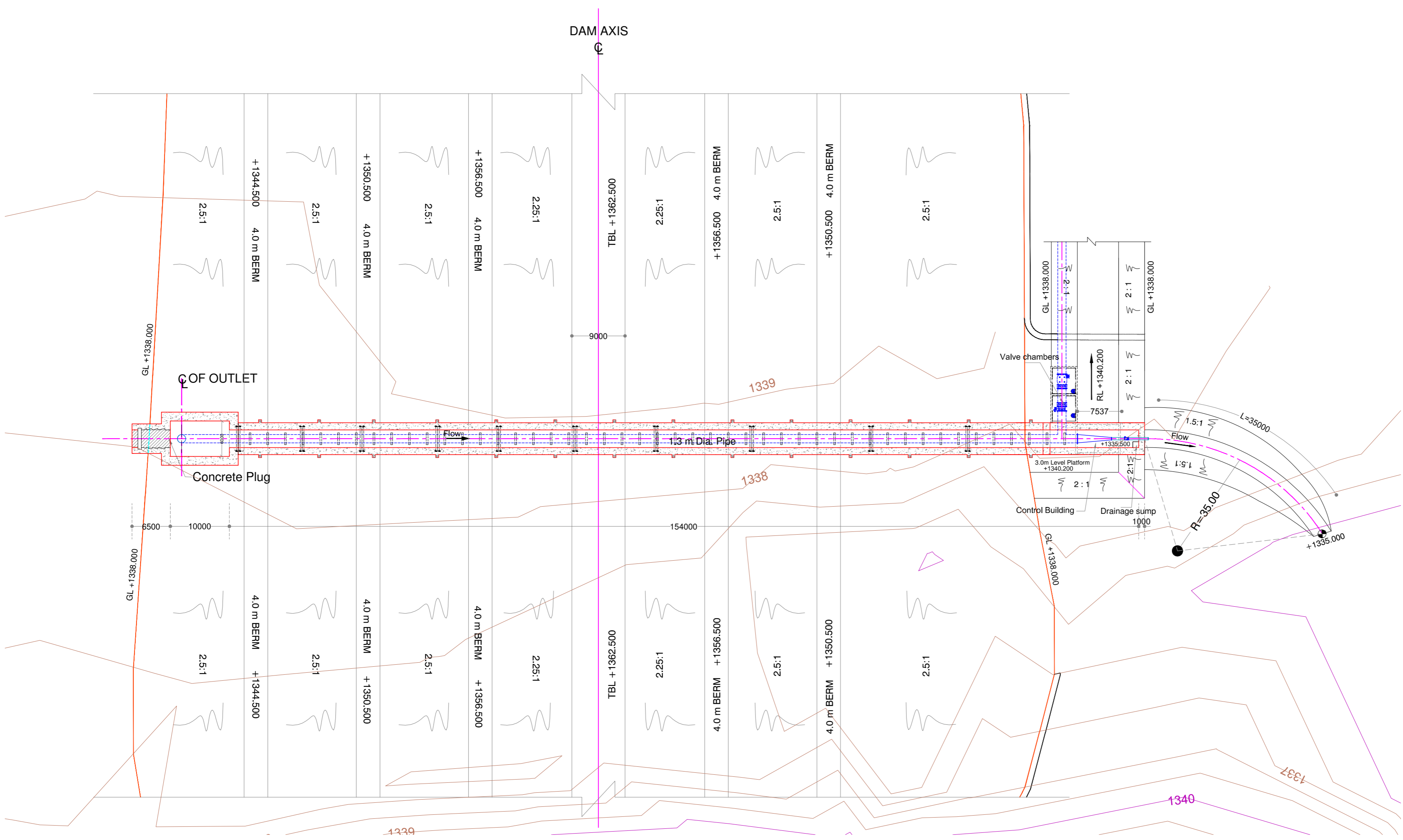
Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91-40-23737633 Fax: +91-4023768277
 e-mail: irrigation@aarvee.net, web:www.aarvee.net

NOTES:-

- 1) ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



SECTION



PLAN

Scale = 1:500

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

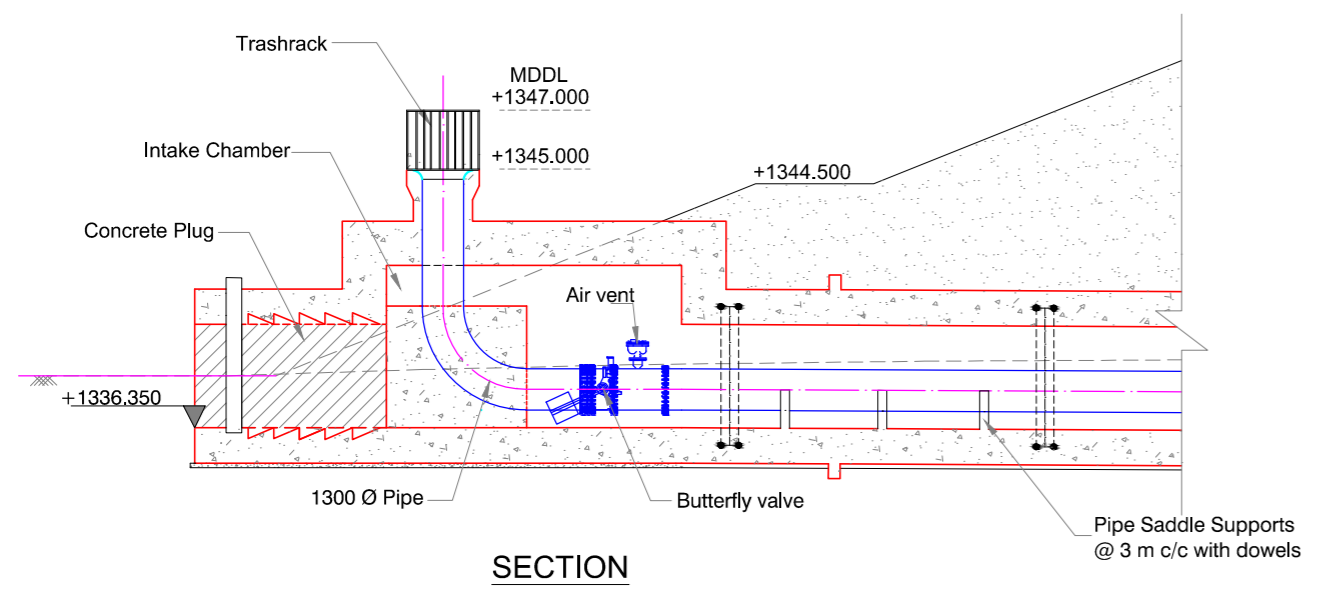
Project : KABUYANDA IRRIGATION SCHEME

Title : GAD OF INTAKE

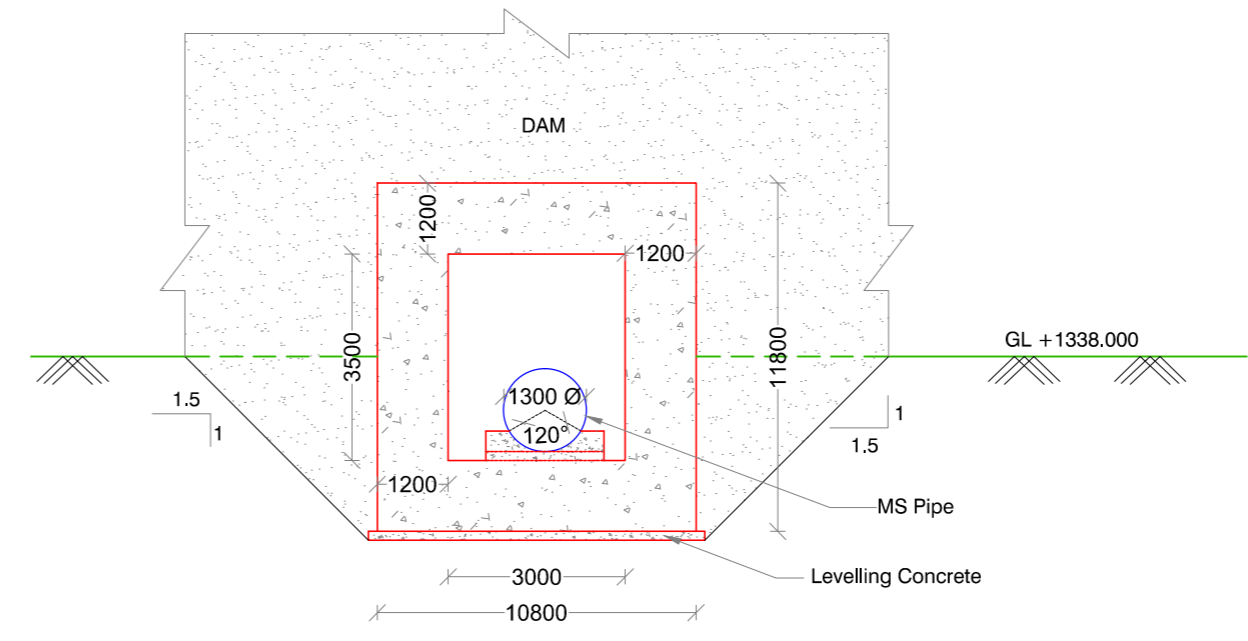
Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net, web: www.aarvee.net

NOTES:-

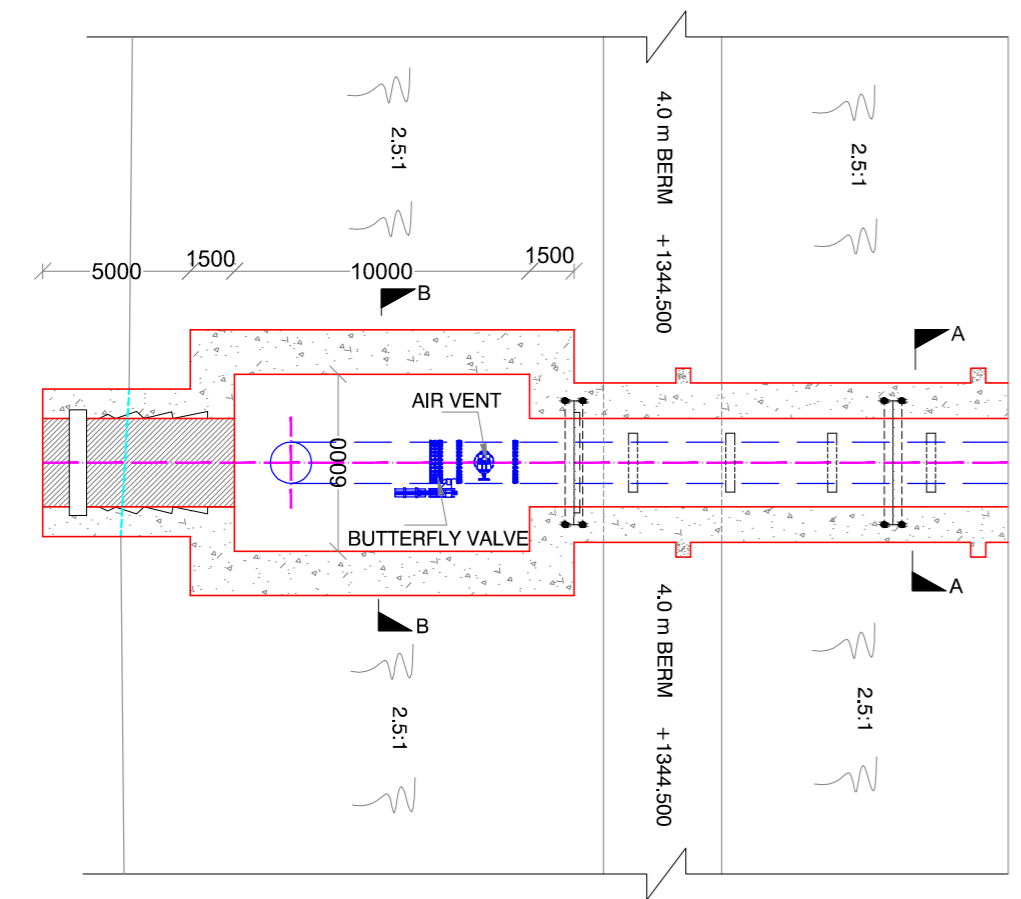
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- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



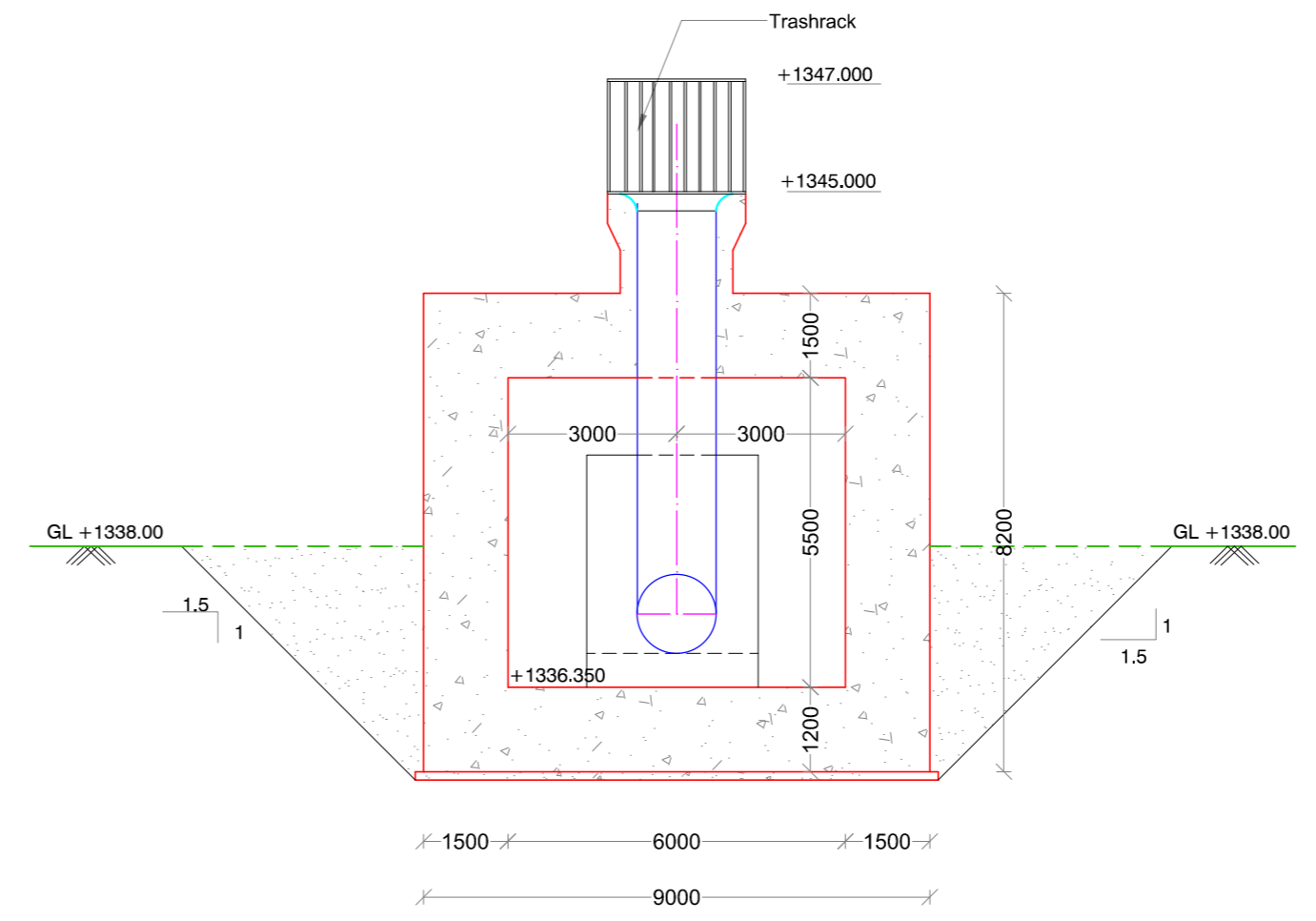
SECTION



SECTION-AA



PLAN



SECTION-BB

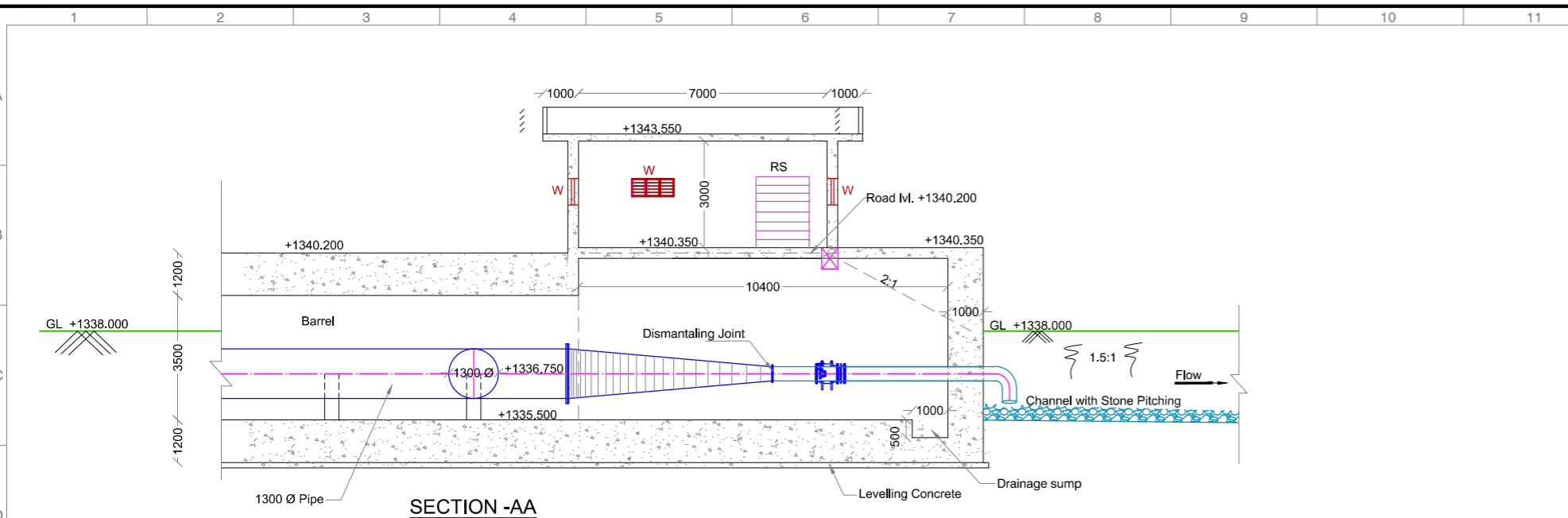
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

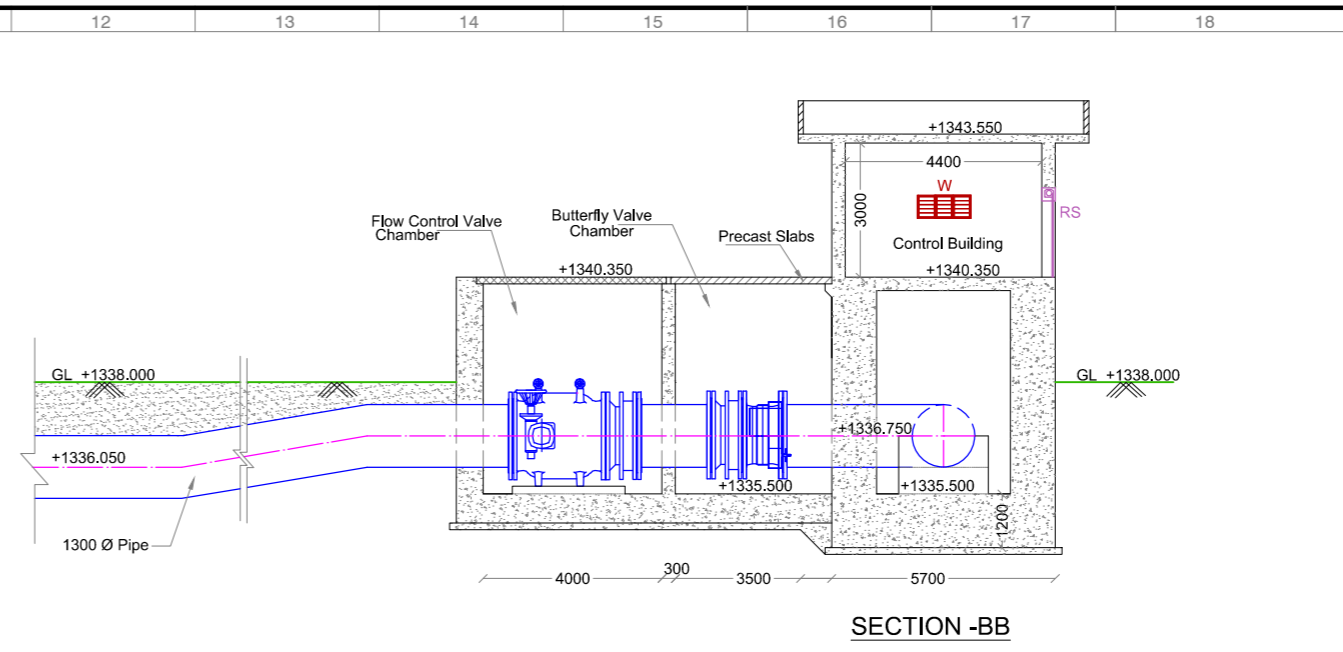
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **INTAKE**
DETAILS OF INLET

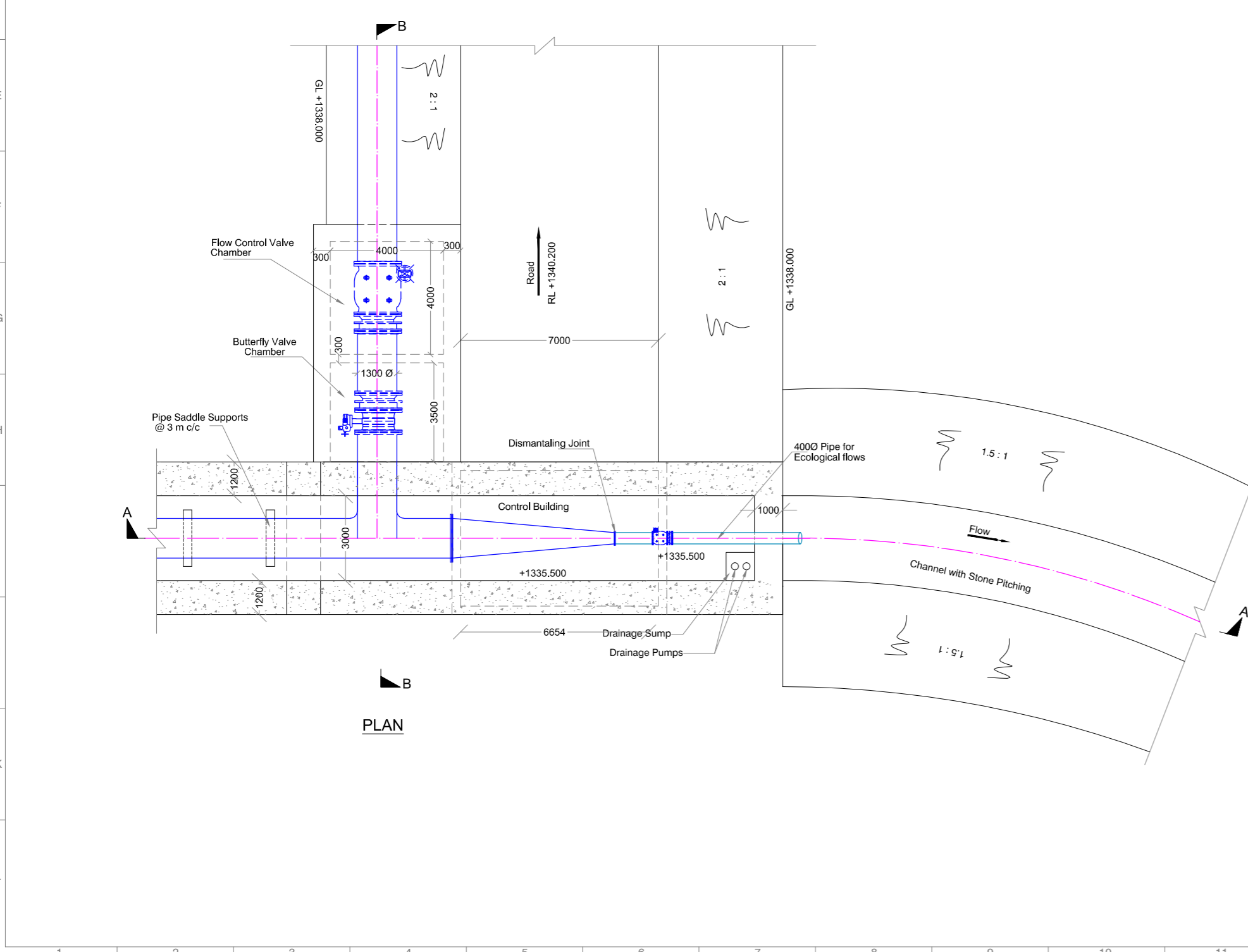
Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



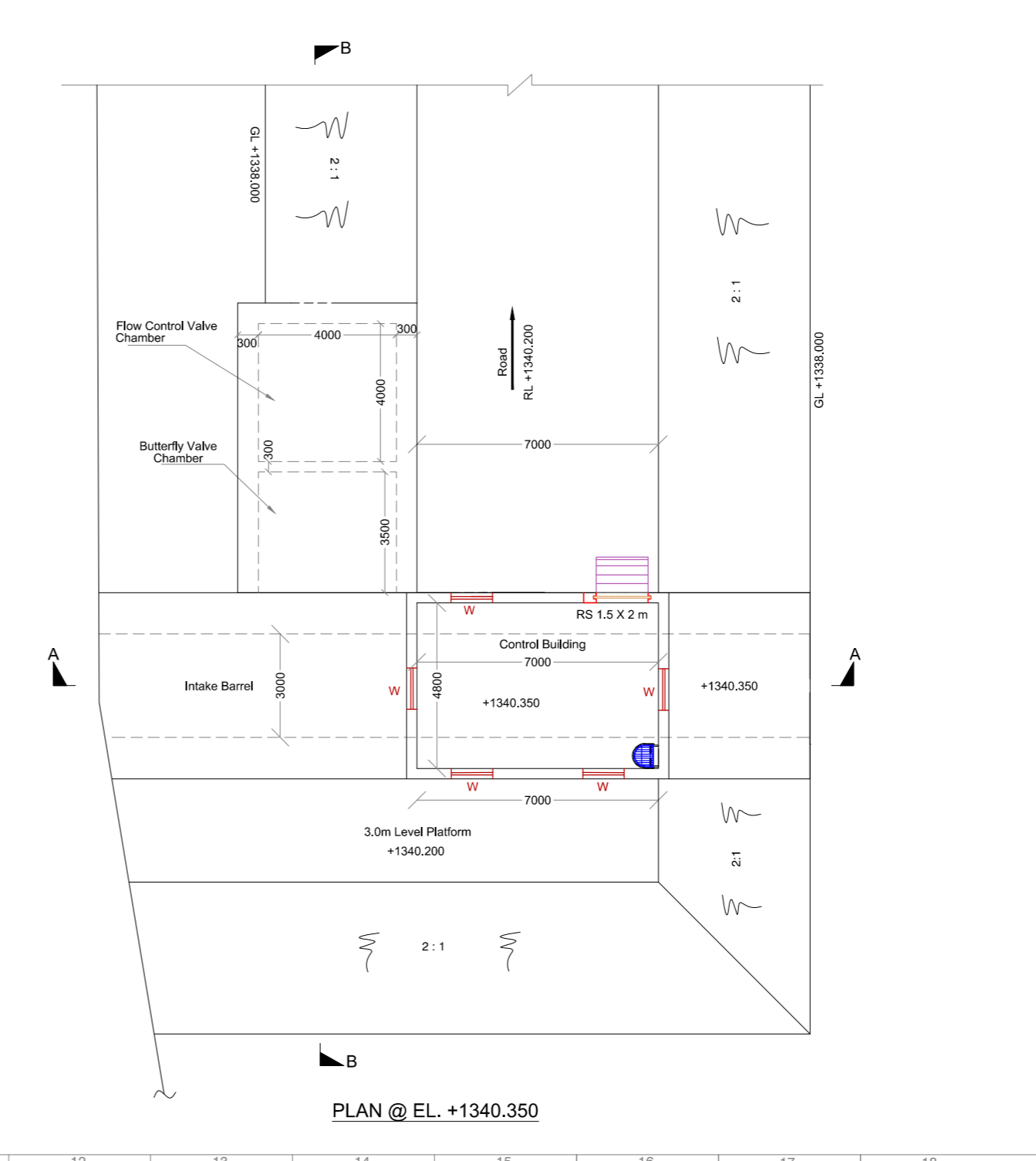
SECTION-AA



SECTION-BB



PLAN



PLAN @ EL. +1340.350


NOTES:-

- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

LEGEND:-

- W = Window
- RS = Rolling Shutter

Scale :- 1:125

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

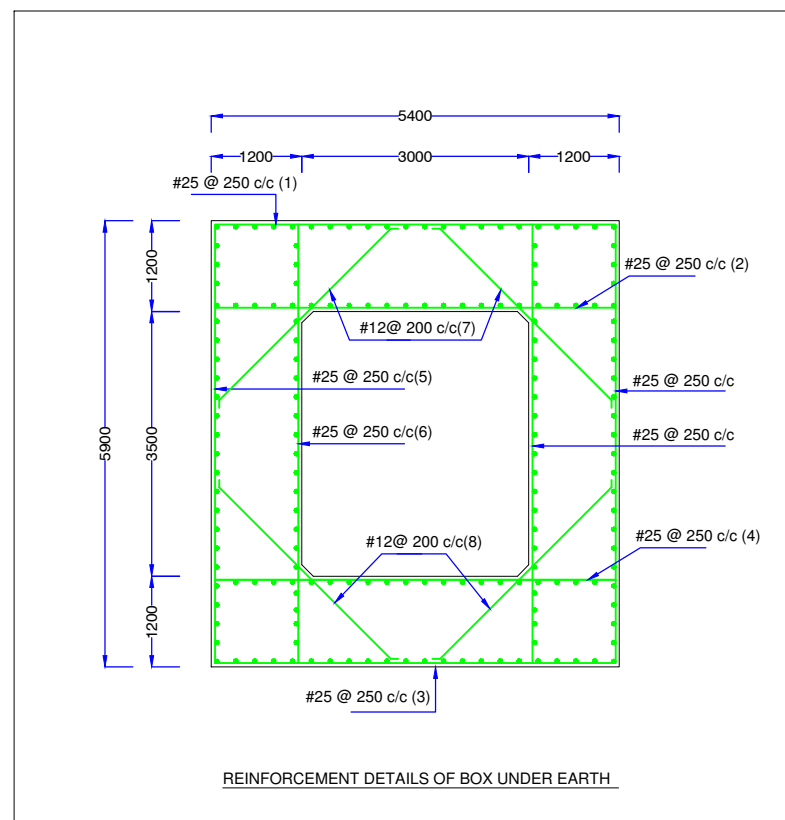
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **INTAKE**
DEATILS OF OUTLET

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

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- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



BAR BENDING SCHEDULE UNDER EARTH

| BAR NO | DIA mm | SPACING mm | SHAPE | LENGTH OF BAR mm | | | | | | | | |
|--------|--------|------------|---|------------------|-----|------|------|------|-----|------|-----|------|
| 1 | 25 | 250 | 100 ┌──────── 5300 ─────────┐ 100 | 5500 | | | | | | | | |
| 2 | 25 | 250 | 100 ┌──────── 5300 ─────────┐ 100 | 5500 | | | | | | | | |
| 3 | 25 | 250 | 100 ┌──────── 5300 ─────────┐ 100 | 5500 | | | | | | | | |
| 4 | 25 | 250 | 100 ┌──────── 5300 ─────────┐ 100 | 5500 | | | | | | | | |
| 5 | 25 | 250 | <table style="margin: auto; border: none;"> <tr><td style="text-align: center;">100</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">5800</td><td style="text-align: center;">5800</td></tr> <tr><td style="text-align: center;">100</td><td style="text-align: center;">100</td></tr> </table> | 100 | 100 | 5800 | 5800 | 100 | 100 | 6000 | | |
| 100 | 100 | | | | | | | | | | | |
| 5800 | 5800 | | | | | | | | | | | |
| 100 | 100 | | | | | | | | | | | |
| 6 | 25 | 250 | <table style="margin: auto; border: none;"> <tr><td style="text-align: center;">100</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">5800</td><td style="text-align: center;">5800</td></tr> <tr><td style="text-align: center;">100</td><td style="text-align: center;">100</td></tr> </table> | 100 | 100 | 5800 | 5800 | 100 | 100 | 6000 | | |
| 100 | 100 | | | | | | | | | | | |
| 5800 | 5800 | | | | | | | | | | | |
| 100 | 100 | | | | | | | | | | | |
| 7 | 12 | 200 | <table style="margin: auto; border: none;"> <tr><td style="text-align: center;">3210</td><td style="text-align: center;">100</td><td style="text-align: center;">100</td><td style="text-align: center;">3210</td></tr> <tr><td style="text-align: center;">100</td><td style="text-align: center;">+</td><td style="text-align: center;">100</td><td style="text-align: center;">100</td></tr> </table> | 3210 | 100 | 100 | 3210 | 100 | + | 100 | 100 | 3410 |
| 3210 | 100 | 100 | 3210 | | | | | | | | | |
| 100 | + | 100 | 100 | | | | | | | | | |
| 8 | 12 | 200 | <table style="margin: auto; border: none;"> <tr><td style="text-align: center;">100</td><td style="text-align: center;">100</td><td style="text-align: center;">3210</td><td style="text-align: center;">3210</td></tr> <tr><td style="text-align: center;">3210</td><td style="text-align: center;">100</td><td style="text-align: center;">100</td><td style="text-align: center;">100</td></tr> </table> | 100 | 100 | 3210 | 3210 | 3210 | 100 | 100 | 100 | 3410 |
| 100 | 100 | 3210 | 3210 | | | | | | | | | |
| 3210 | 100 | 100 | 100 | | | | | | | | | |

Scale :-

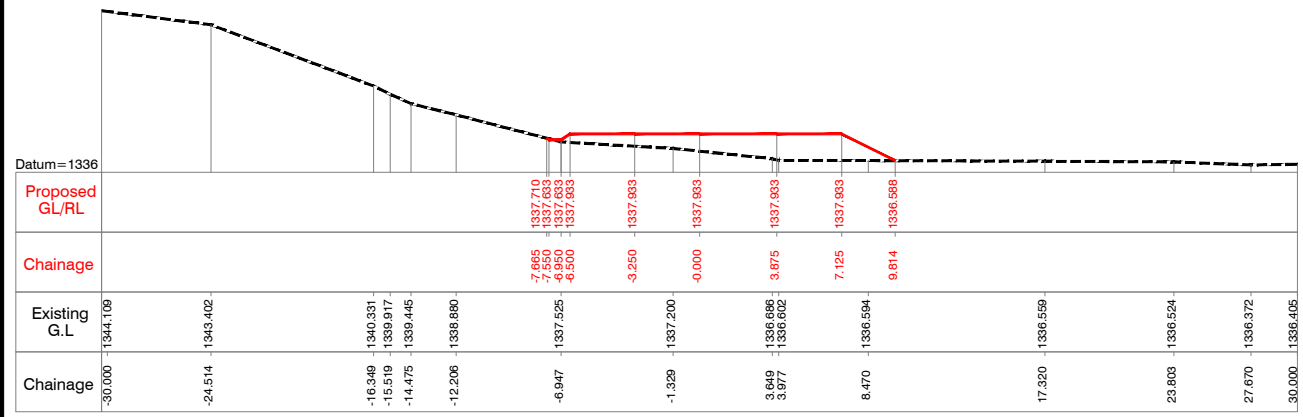
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

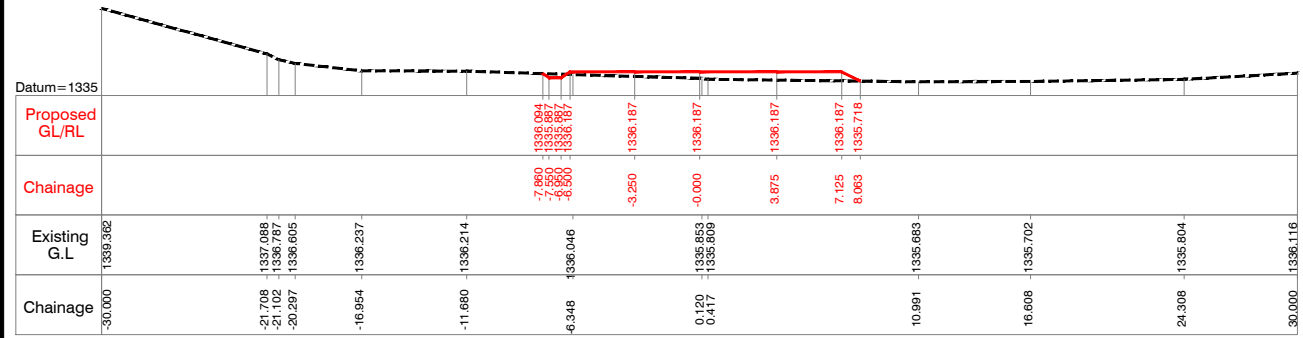
Title : **REINFORCEMENT DETAILS**

Consultants :
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633 Fax: +91-402376227
e-mail: irrigation@aarvee.net, web: www.aarvee.net

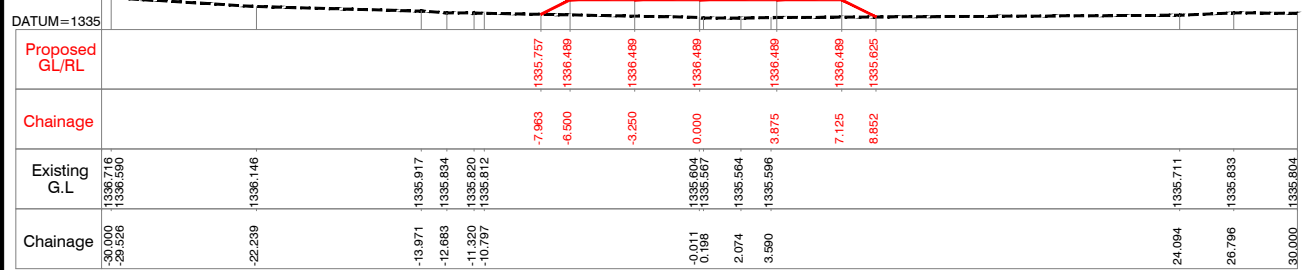
Drg. No. AA/IRR/2238/KIS/IG/04 Date 14-06-2019



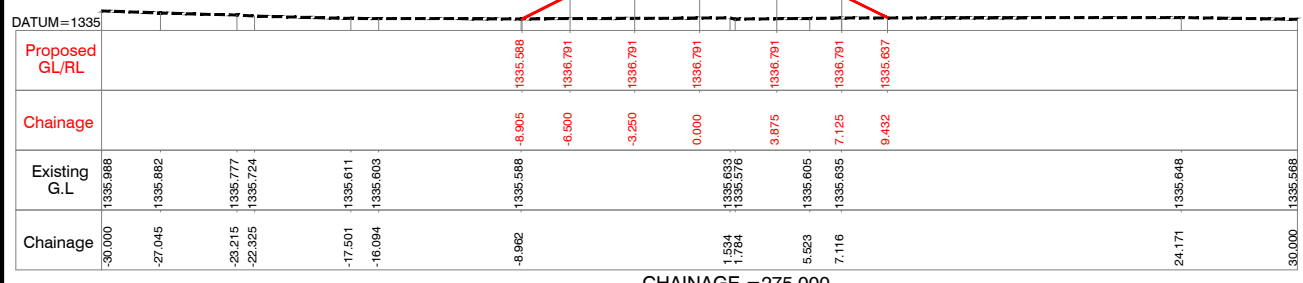
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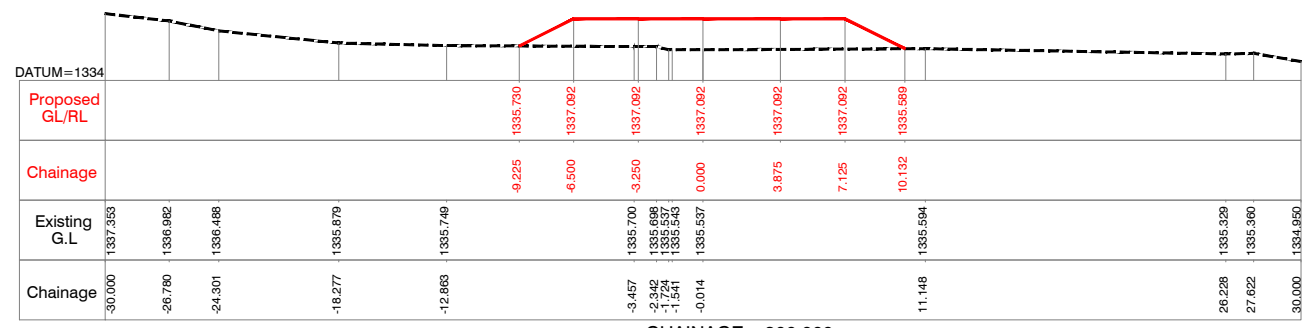
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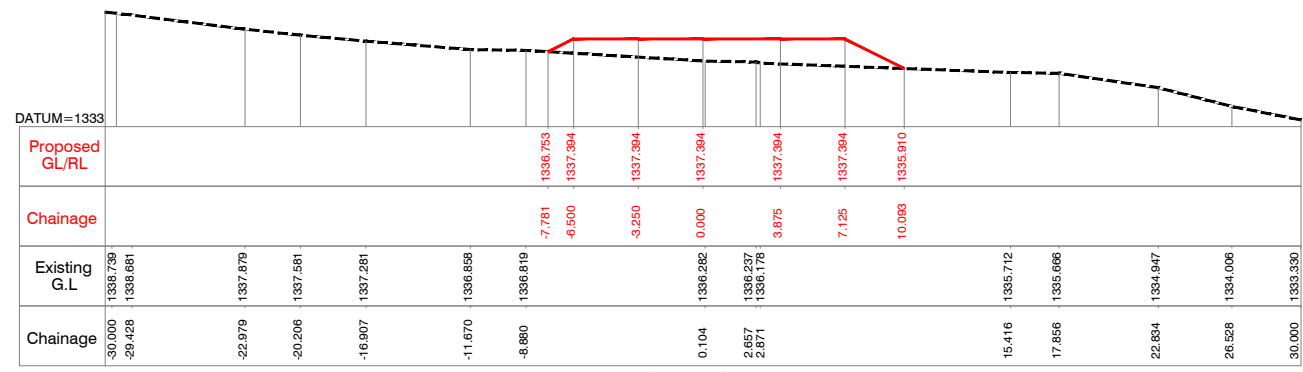
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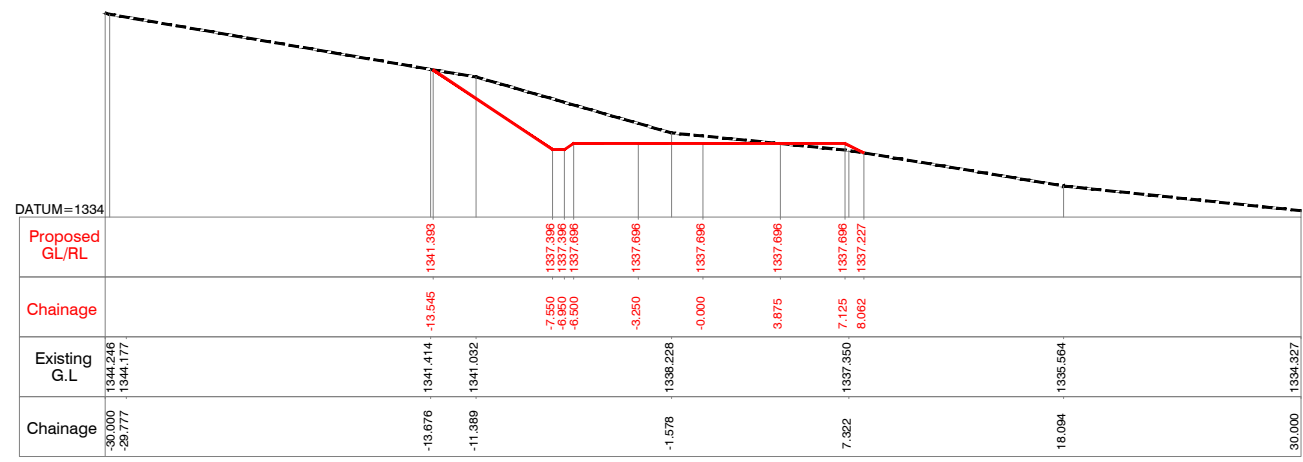
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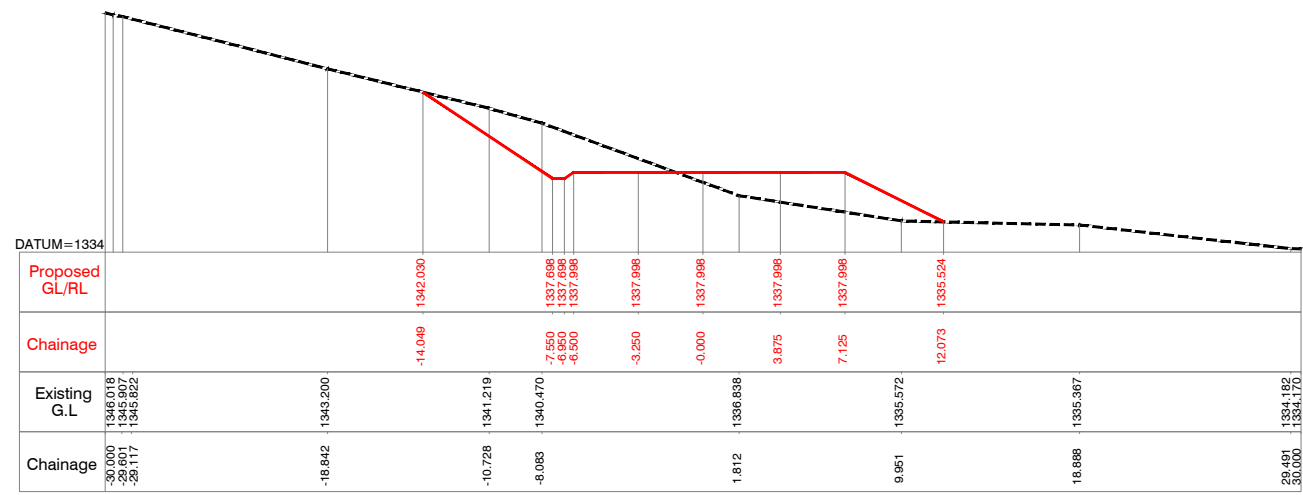
CHAINAGE = 300.000



CHAINAGE = 325.000



CHAINAGE = 350.000



CHAINAGE = 375.000

NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

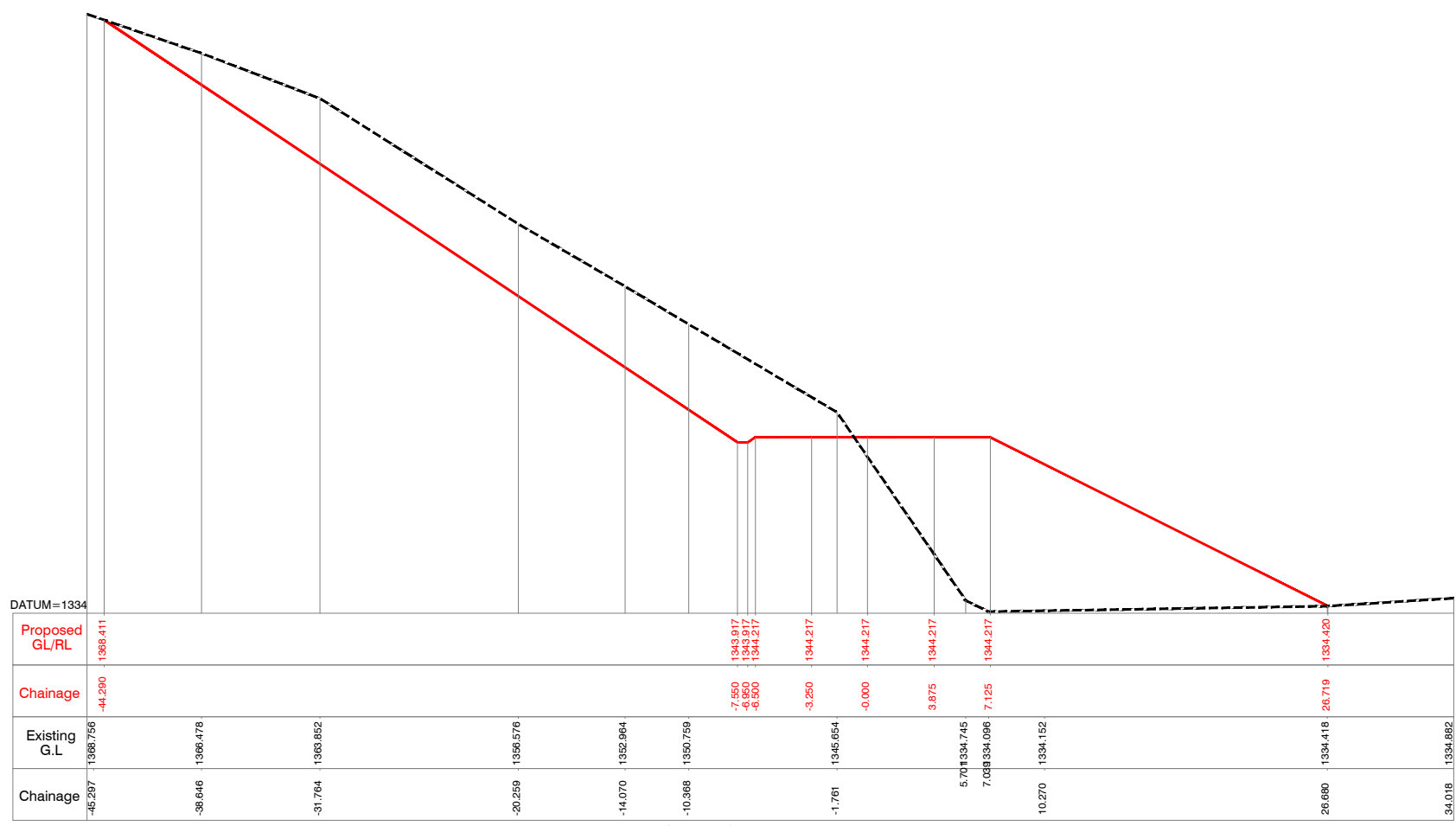
Project : **KABUYANDA IRRIGATOR SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 0.200 to KM @ 0.375

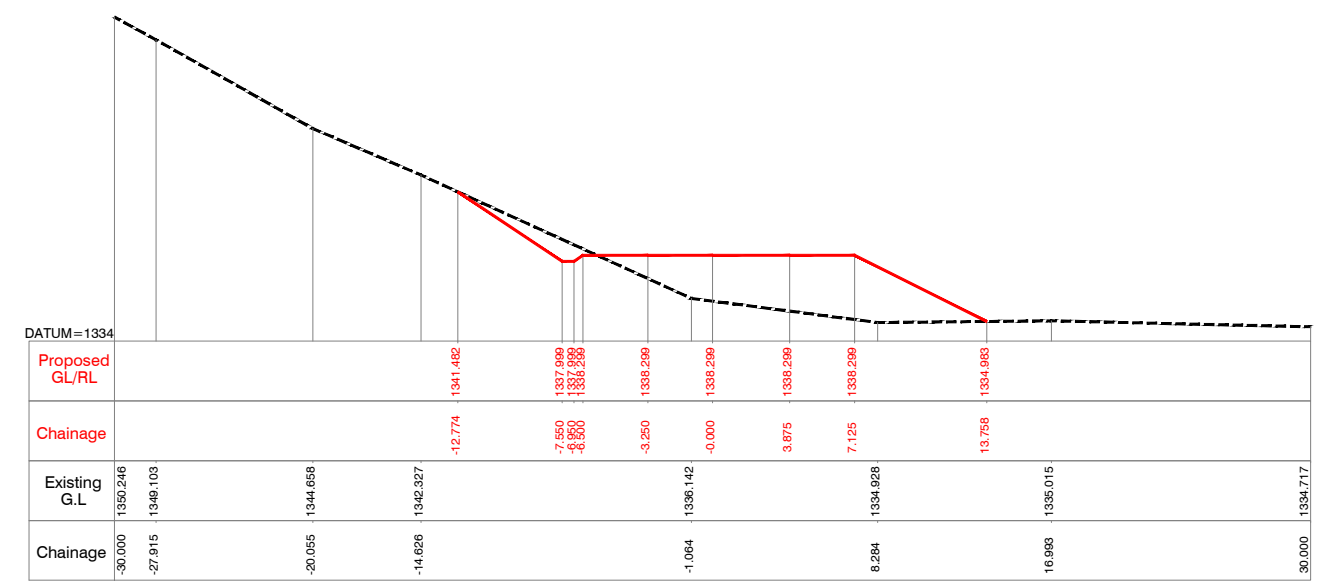
Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

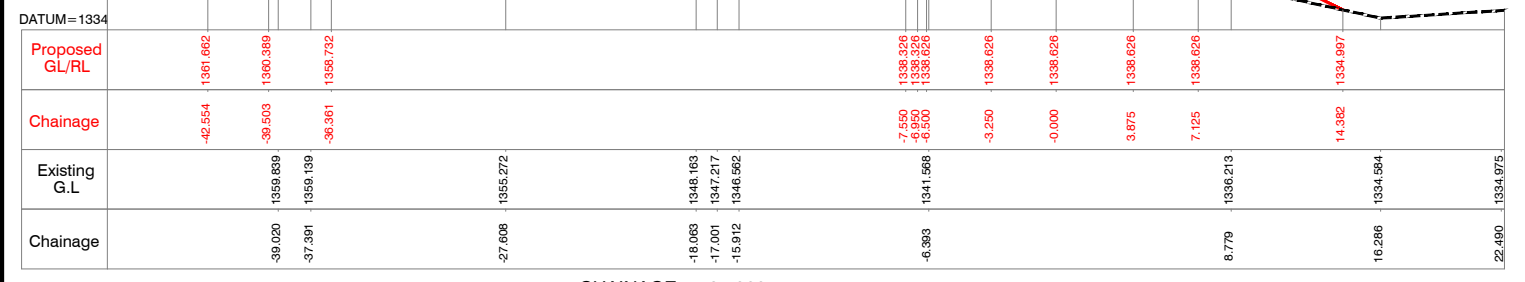
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



CHAINAGE = 450.000



CHAINAGE = 400.000



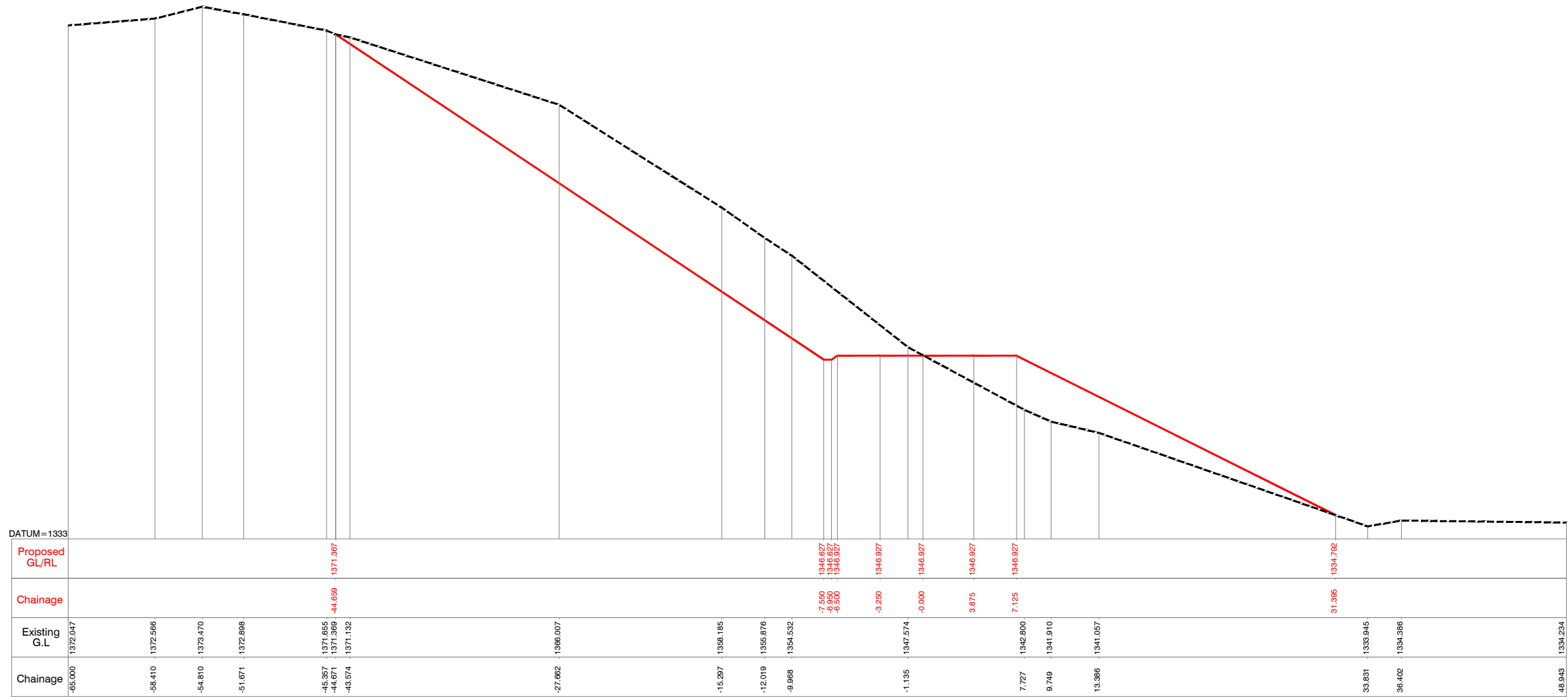
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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

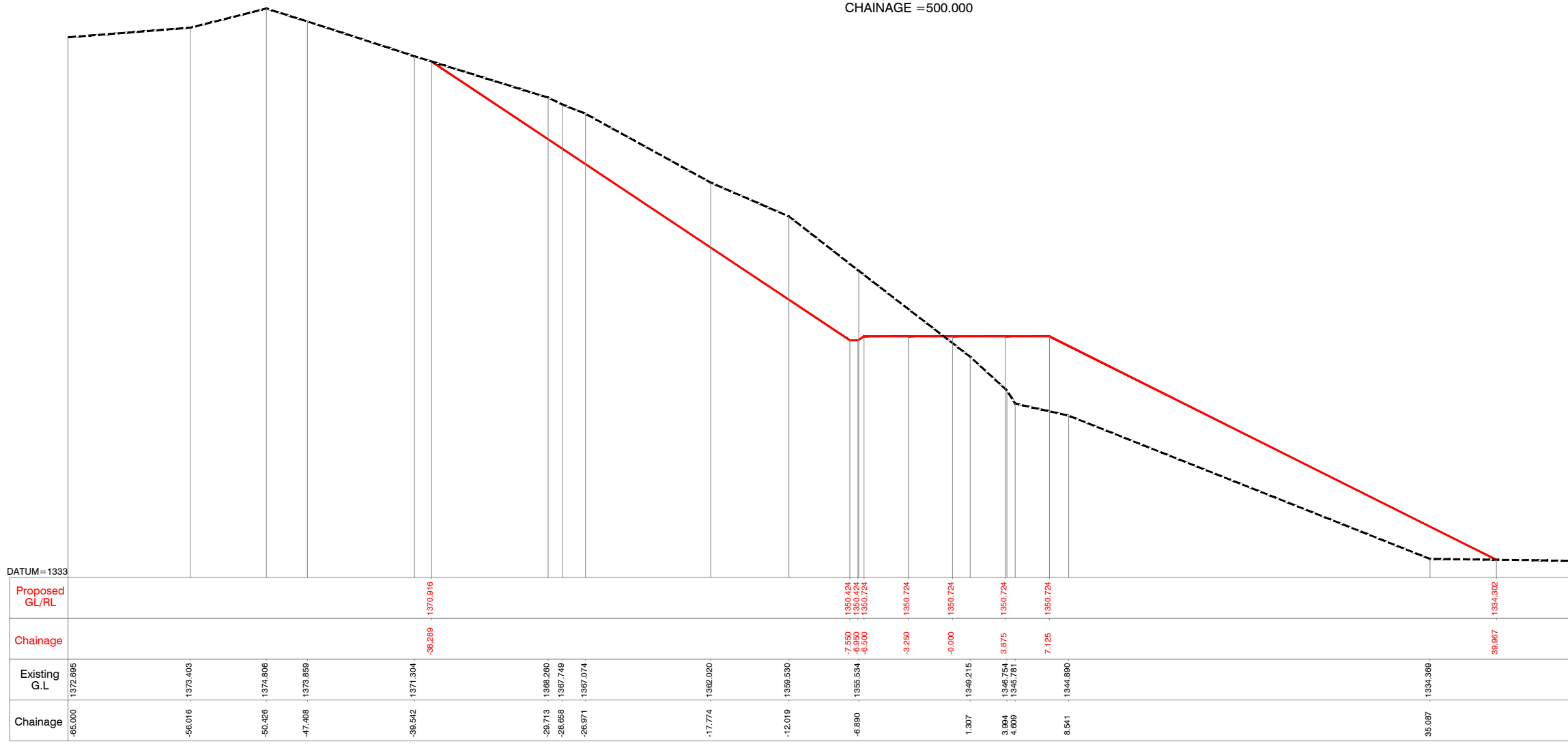
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 0.400 to KM @ 0.450

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Presidency, Singareddy Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net



CHAINAGE = 500.000



CHAINAGE = 475.000

NOTES:-

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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

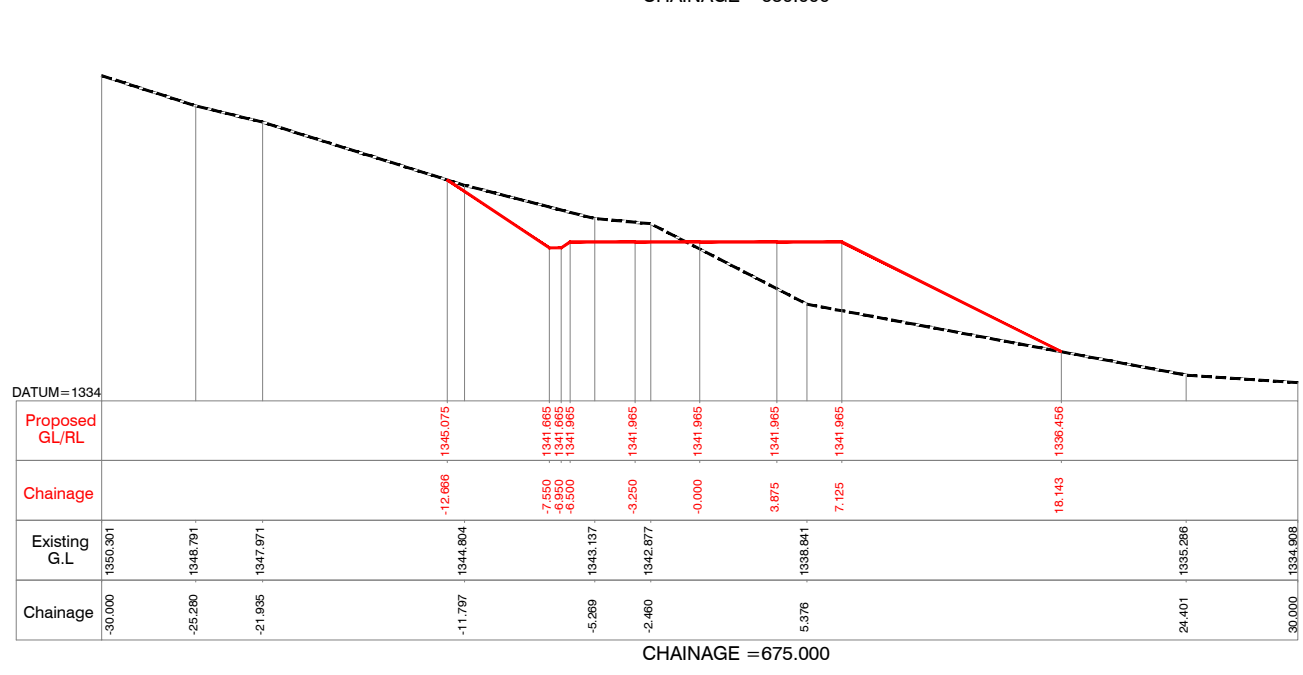
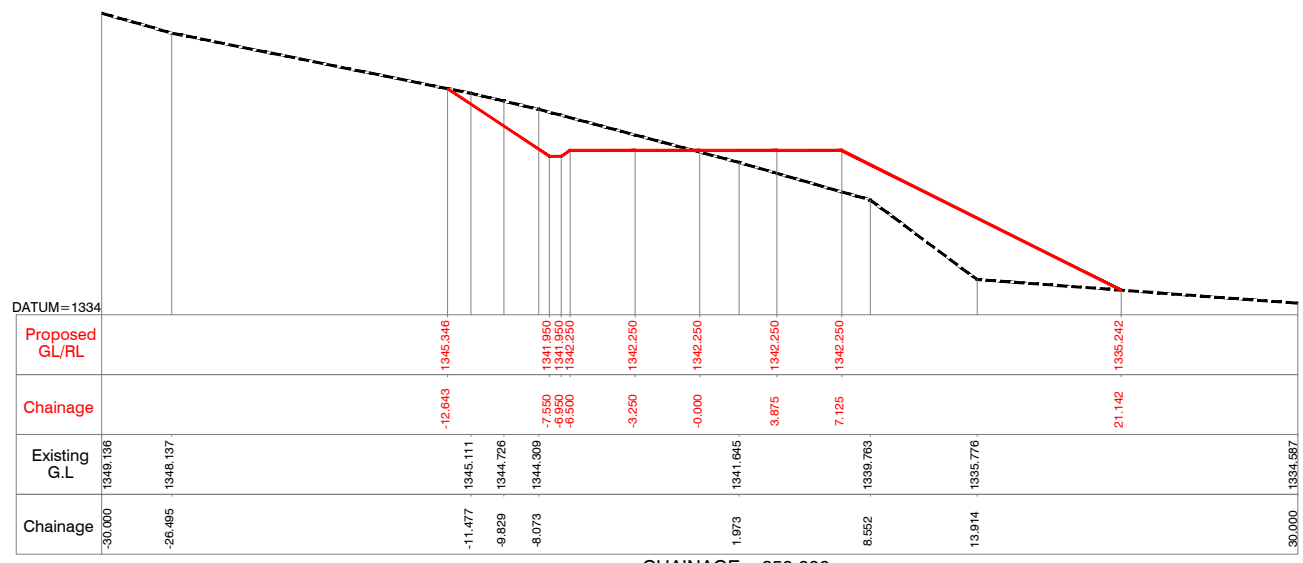
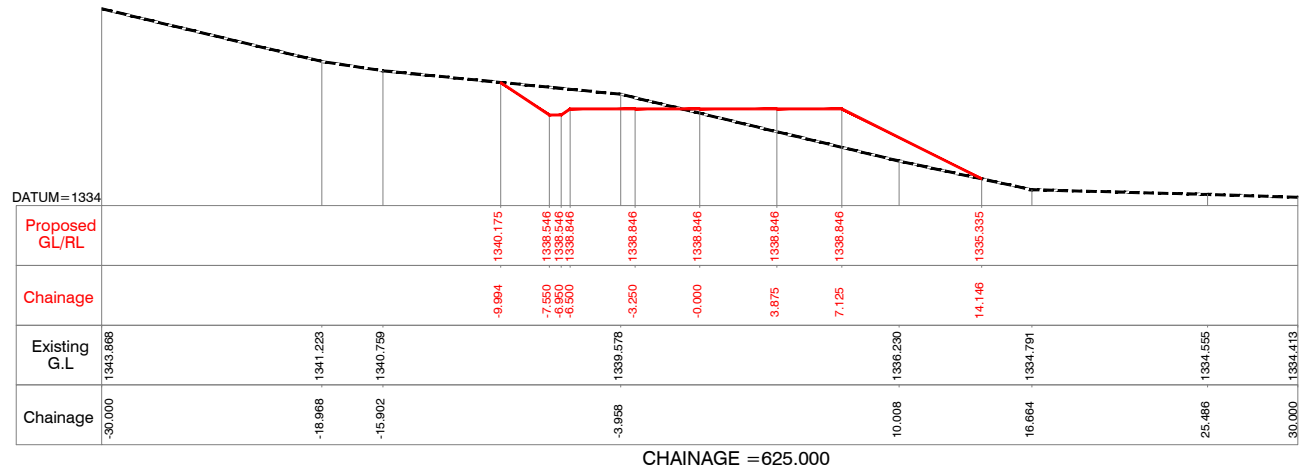
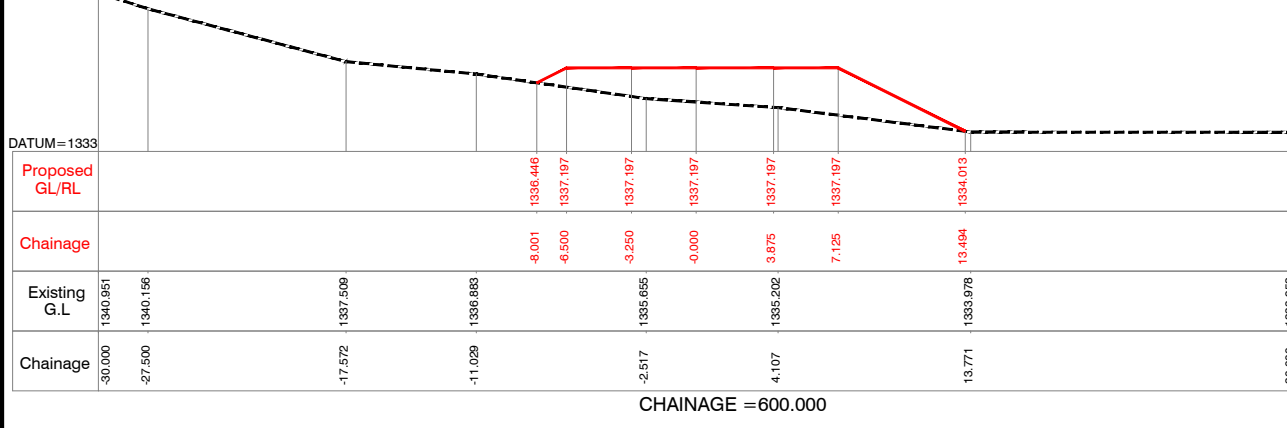
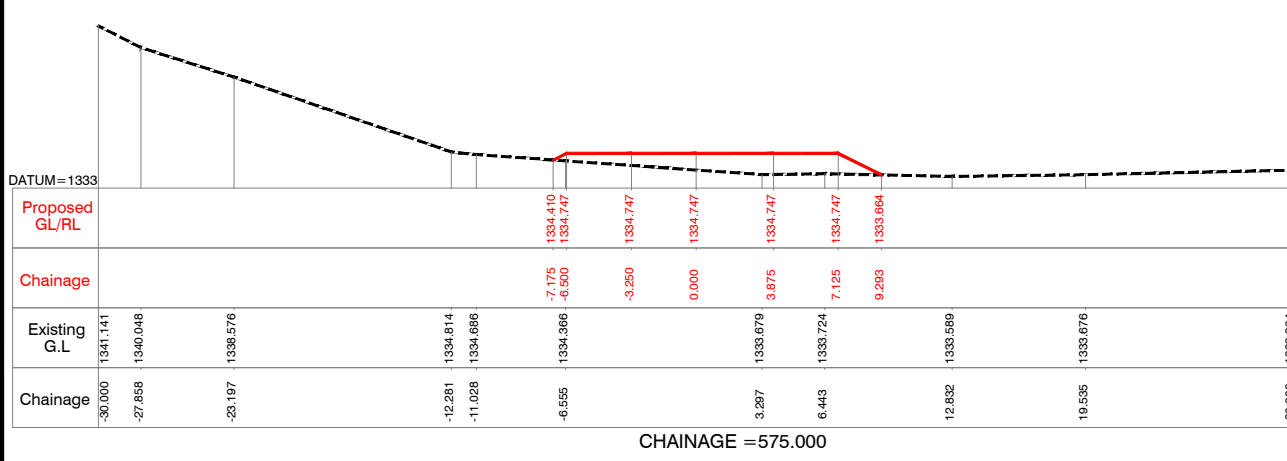
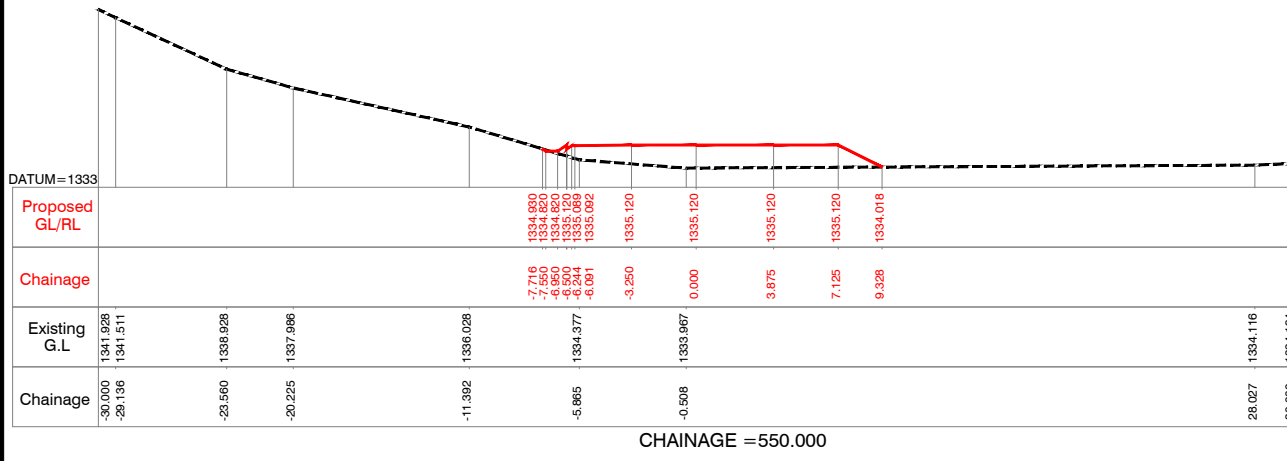
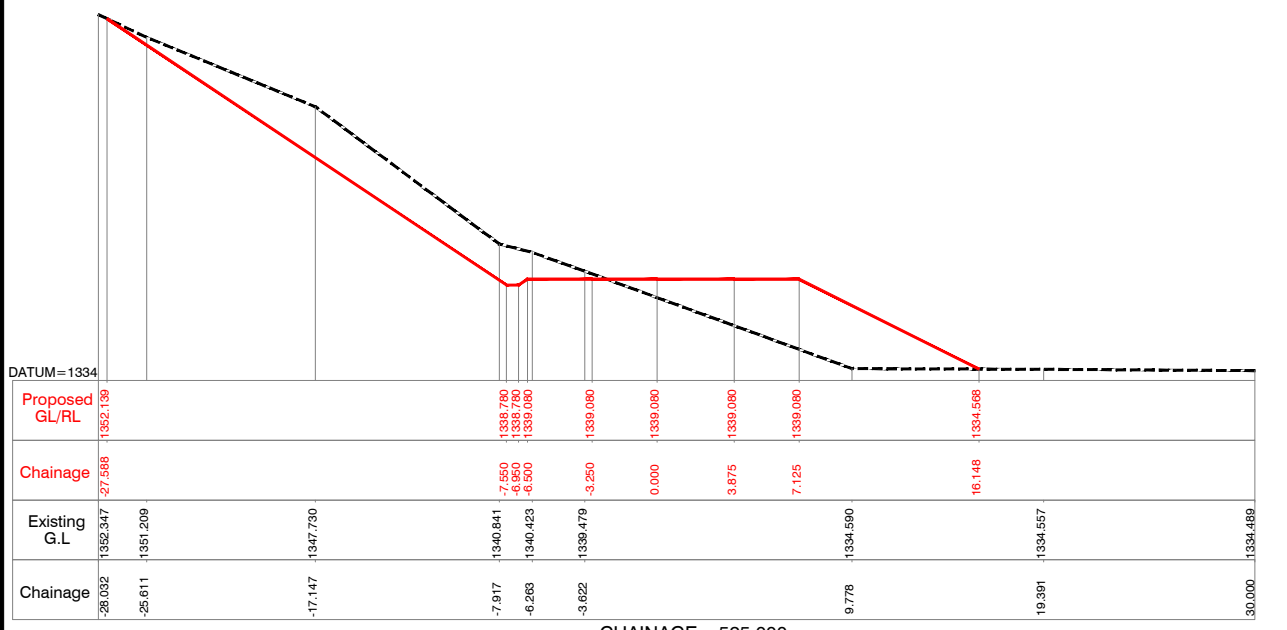
Project : **KABUYANDA IRRIGATION SCHEME**


Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 0.475 to KM @ 0.500

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Singar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-2373633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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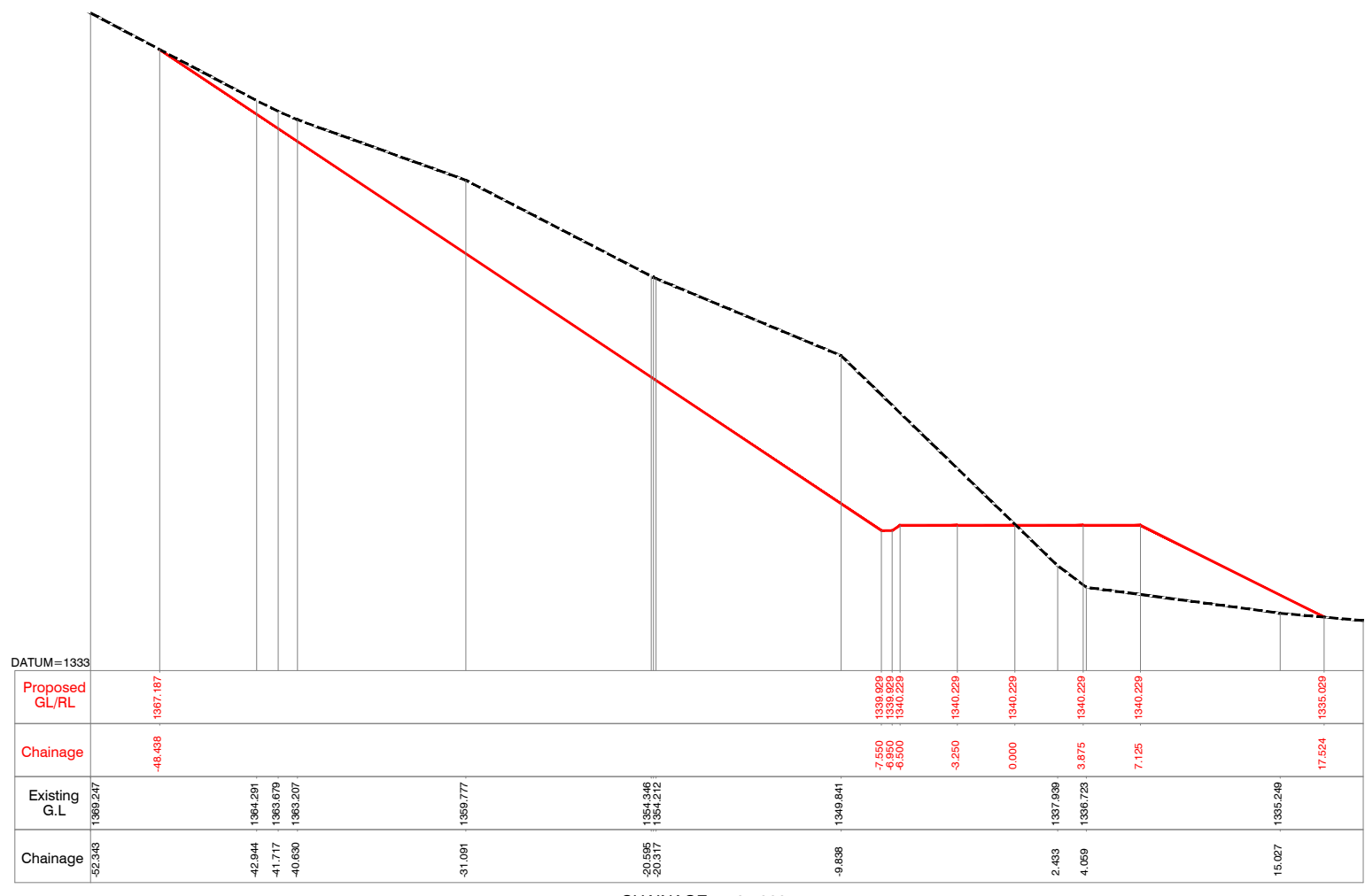
Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

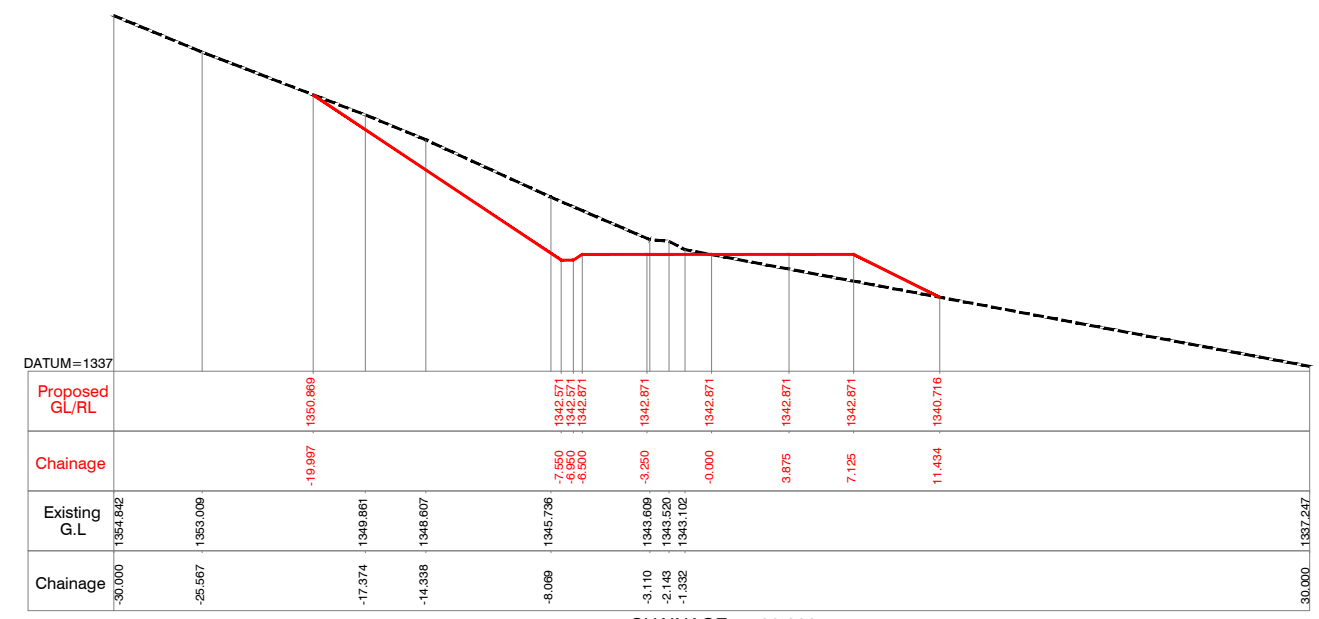
Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 0.525 to KM @ 0.675

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

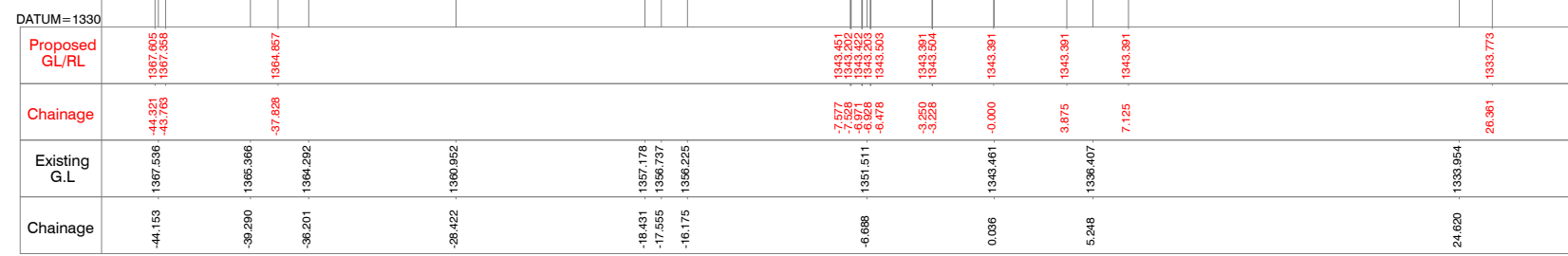
NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.




CHAINAGE = 725.000



CHAINAGE = 700.000




CHAINAGE = 750.000

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

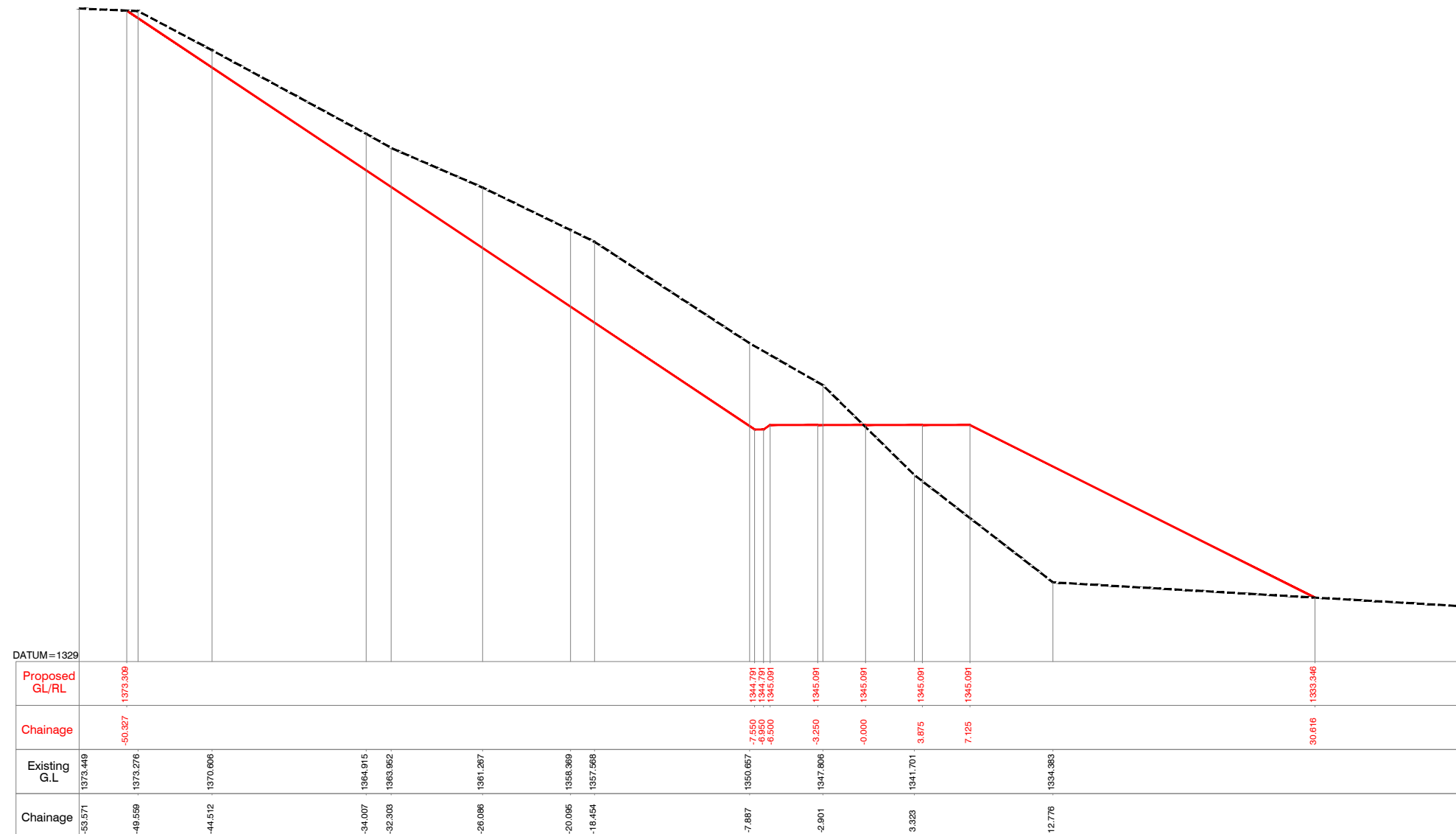
Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 0.700 to KM @ 0.750

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Sriranga Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

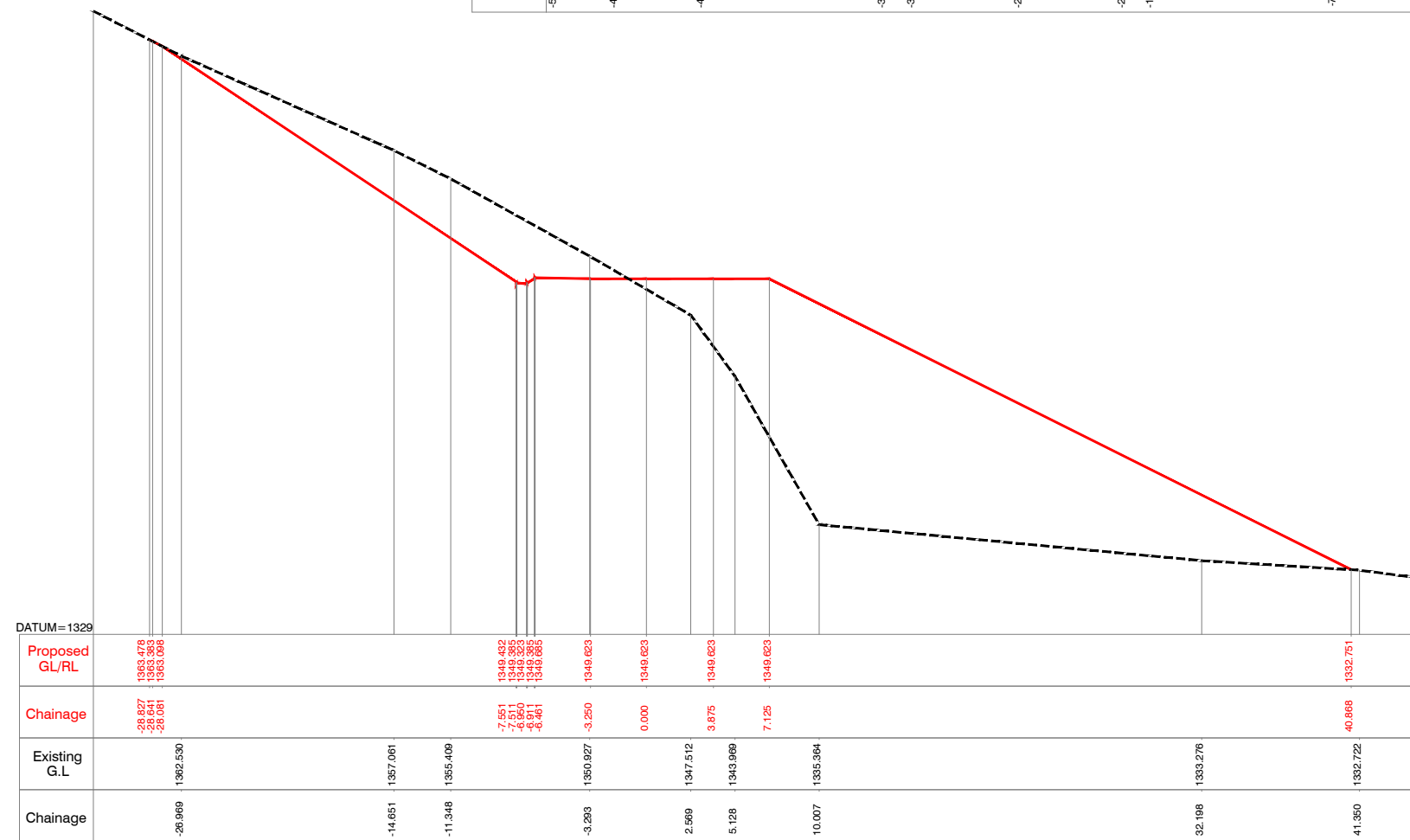
Drg. No. AA/IRR/2238/KIS/LAR/CS/01 6 of 28 Date 17-08-2019

NOTES:-

- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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CHAINAGE = 800.000



CHAINAGE = 775.000

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

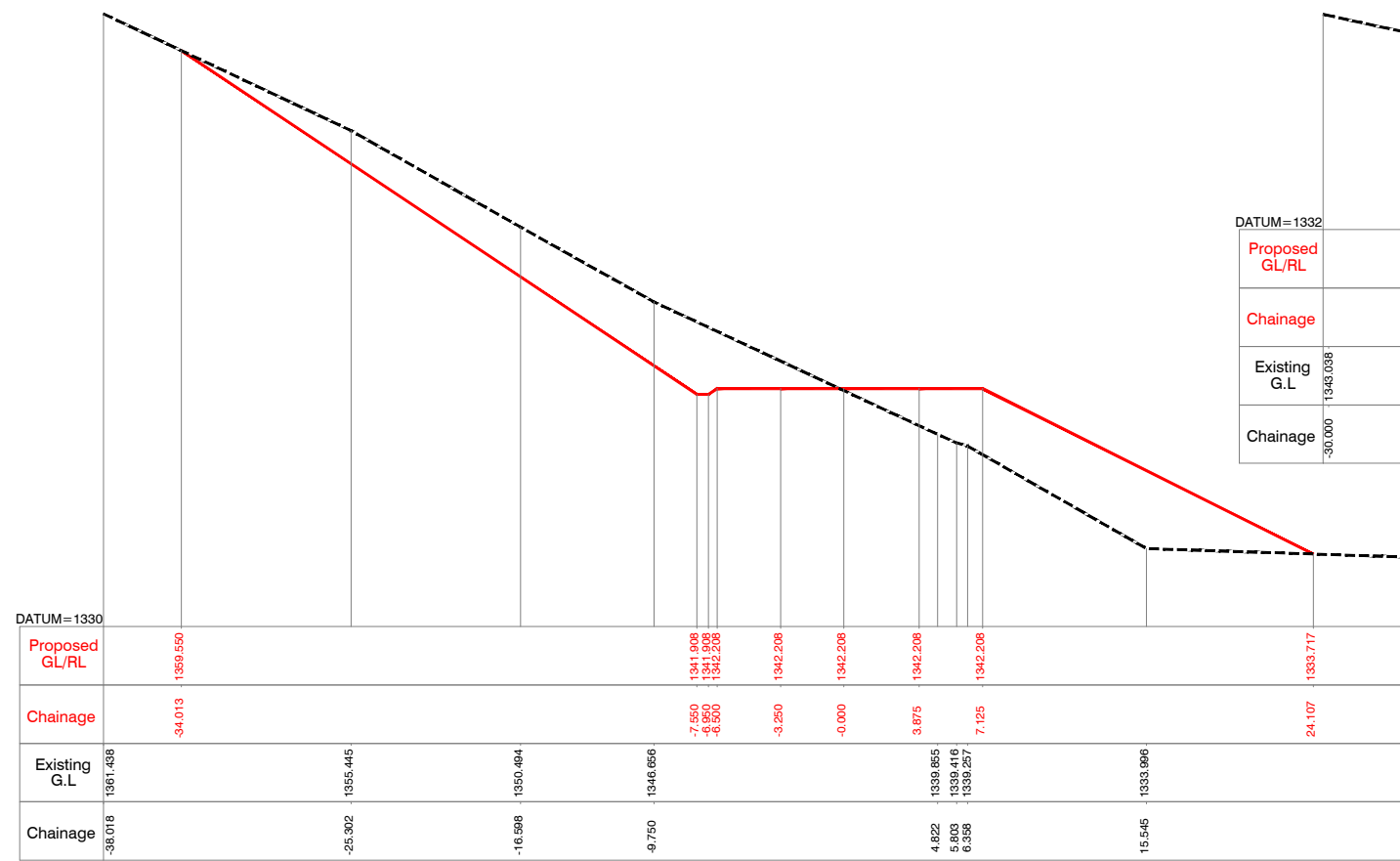
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 0.775 to KM @ 0.800

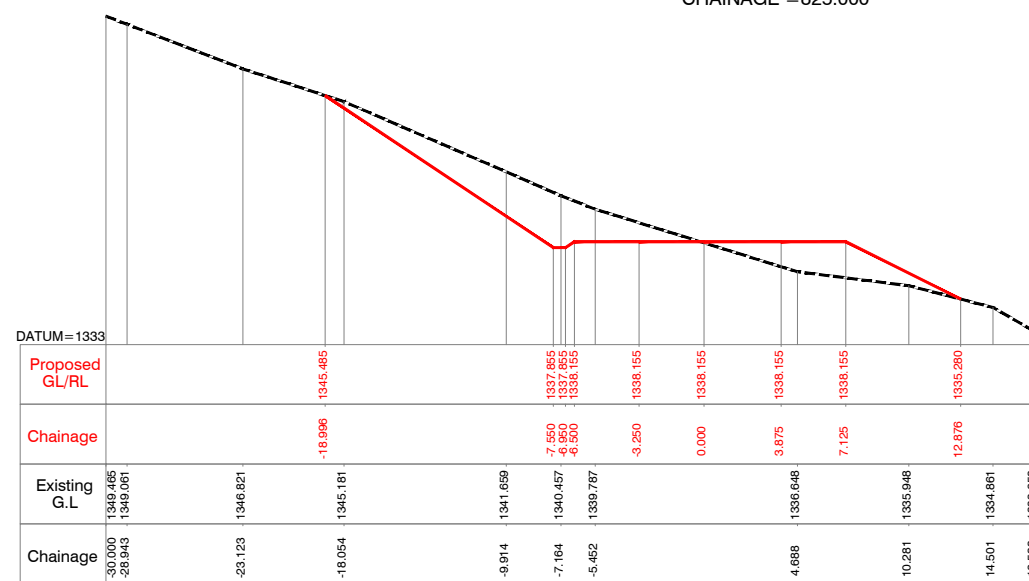
Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Rivula Presidency, Sangare Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

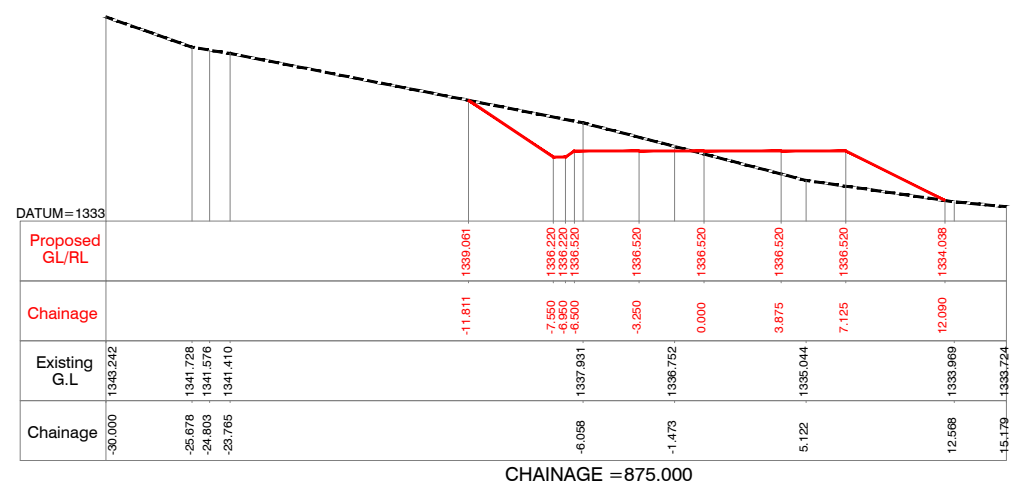
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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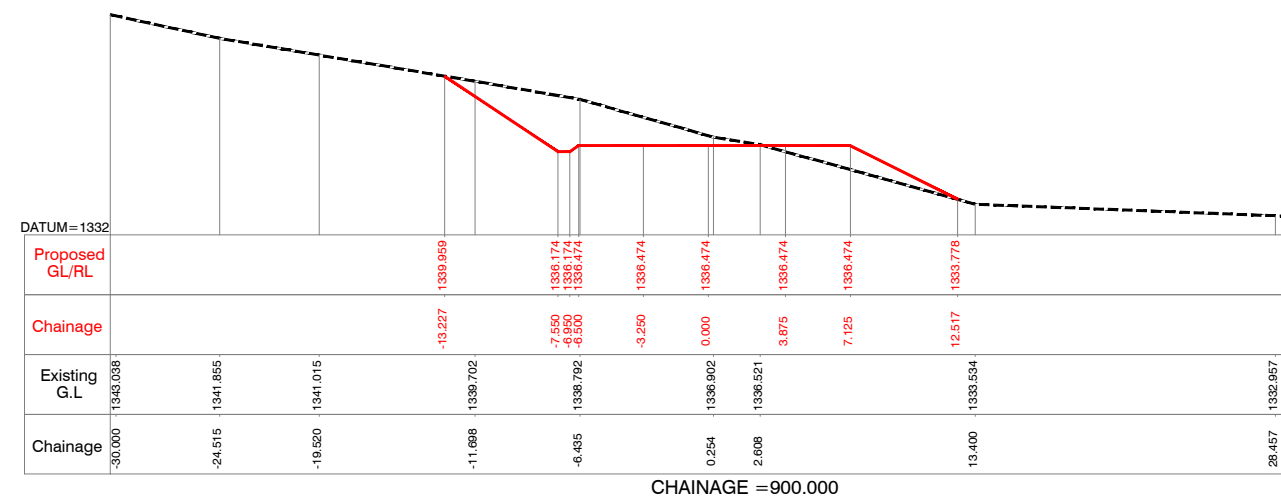
CHAINAGE = 825.000



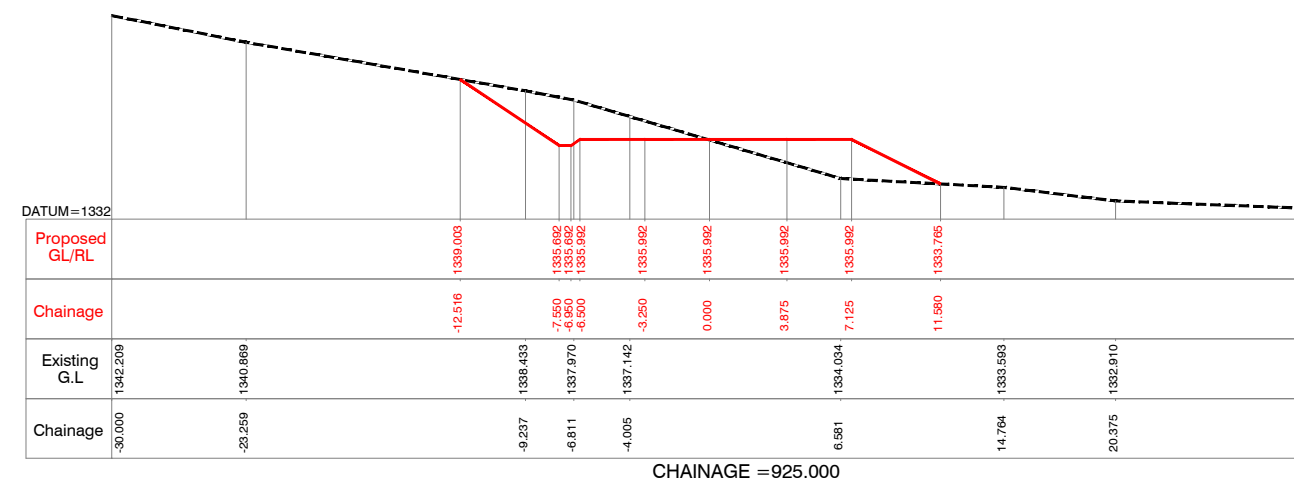
CHAINAGE = 850.000



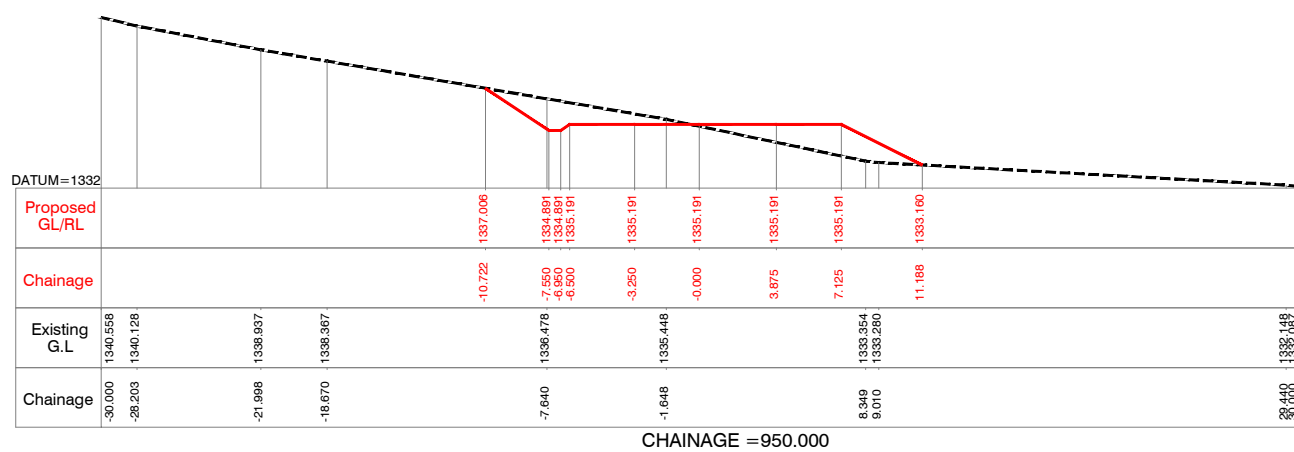
CHAINAGE = 875.000



CHAINAGE = 900.000



CHAINAGE = 925.000



CHAINAGE = 950.000

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

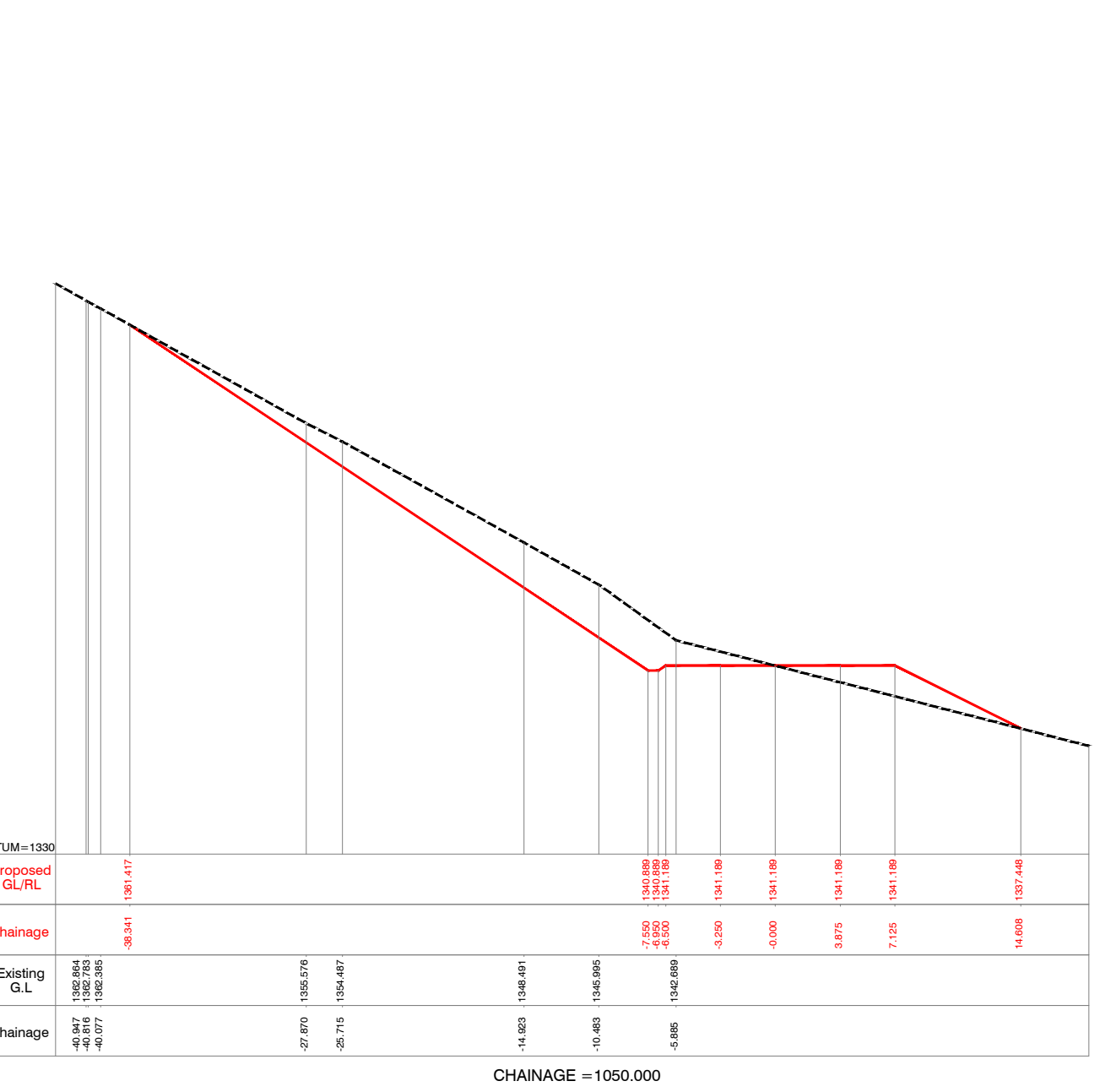
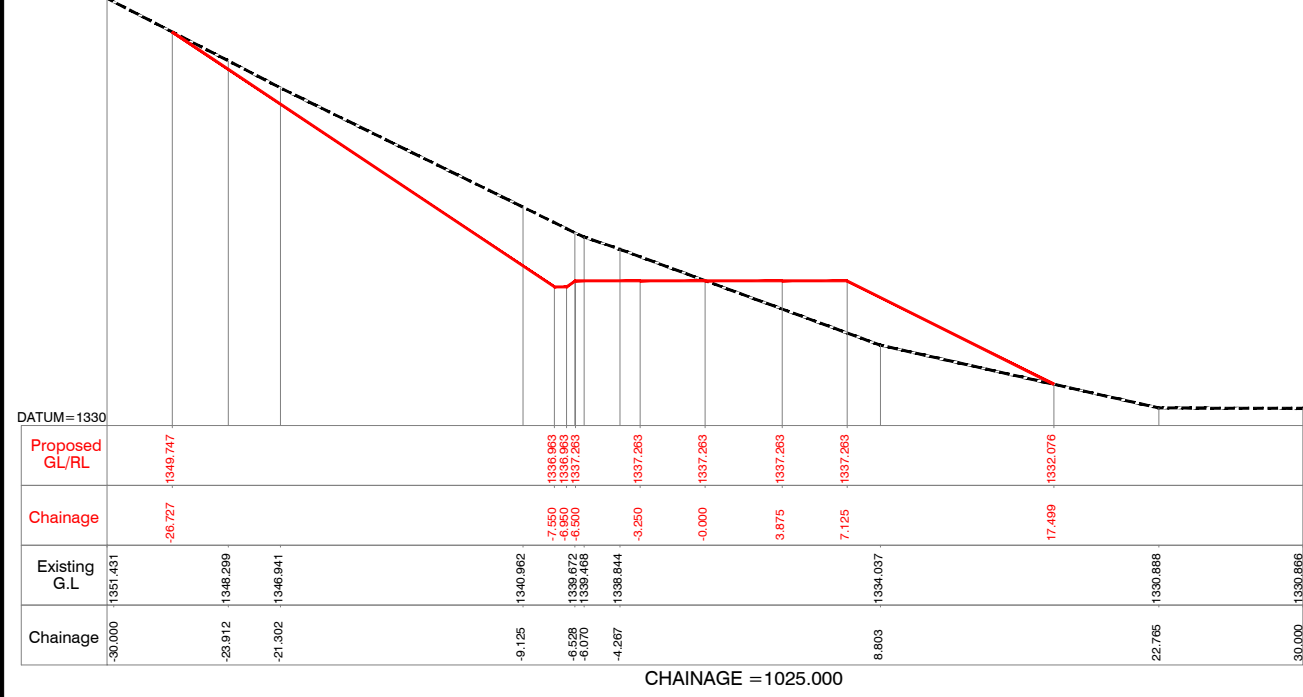
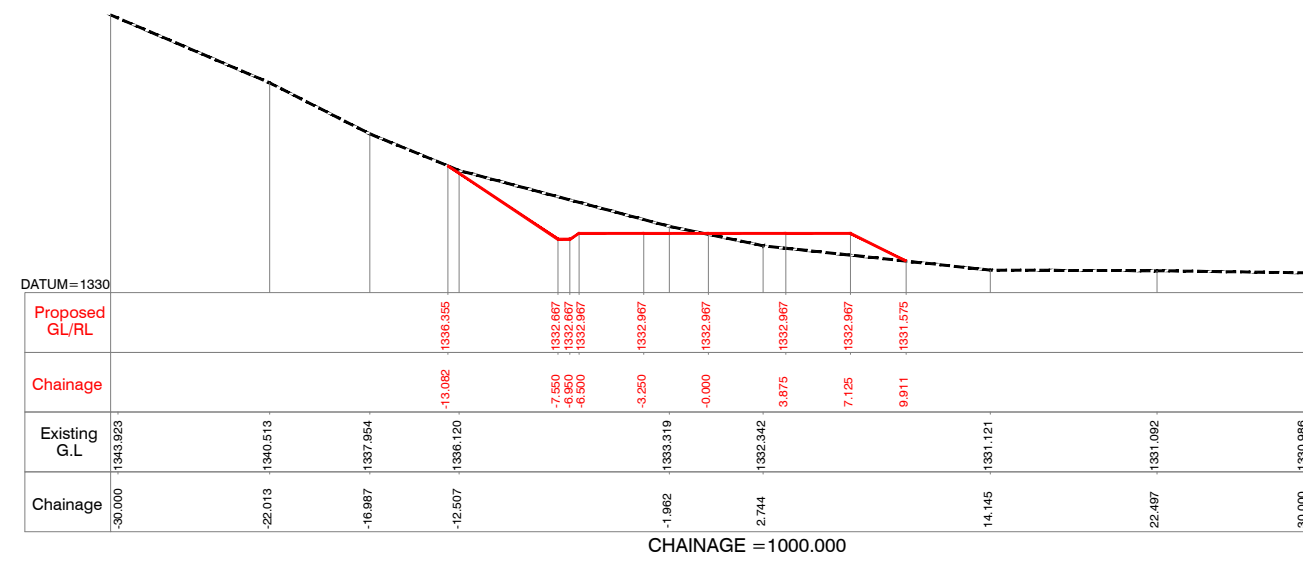
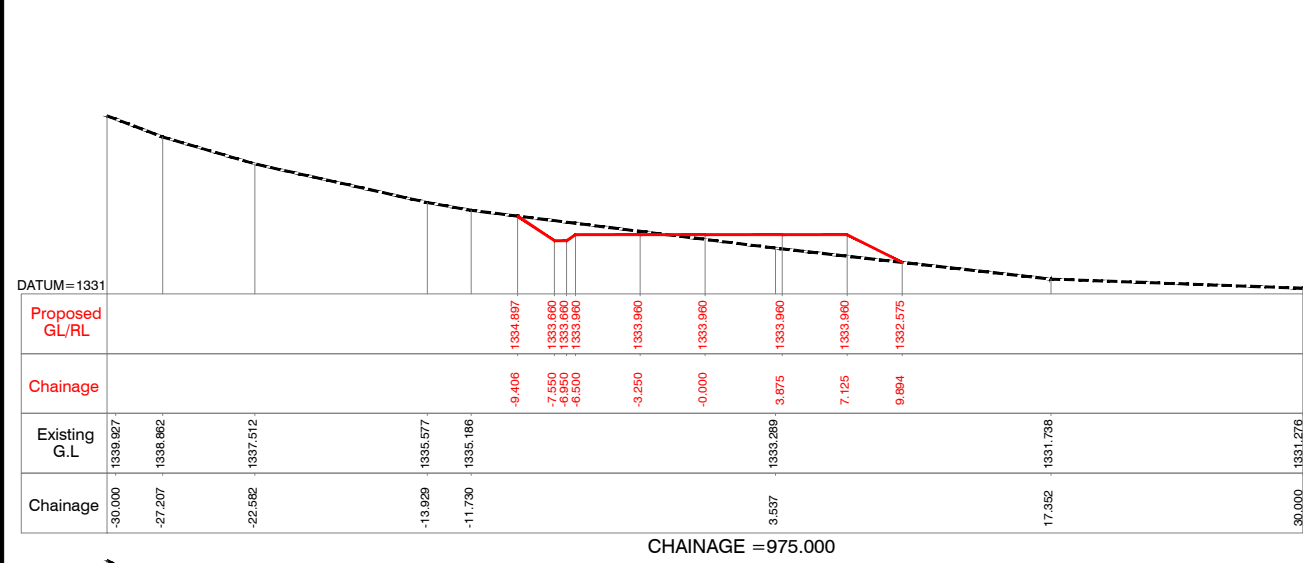
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 0.825 to KM @ 0.950

Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
Revula Presidency, Sarvagga Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

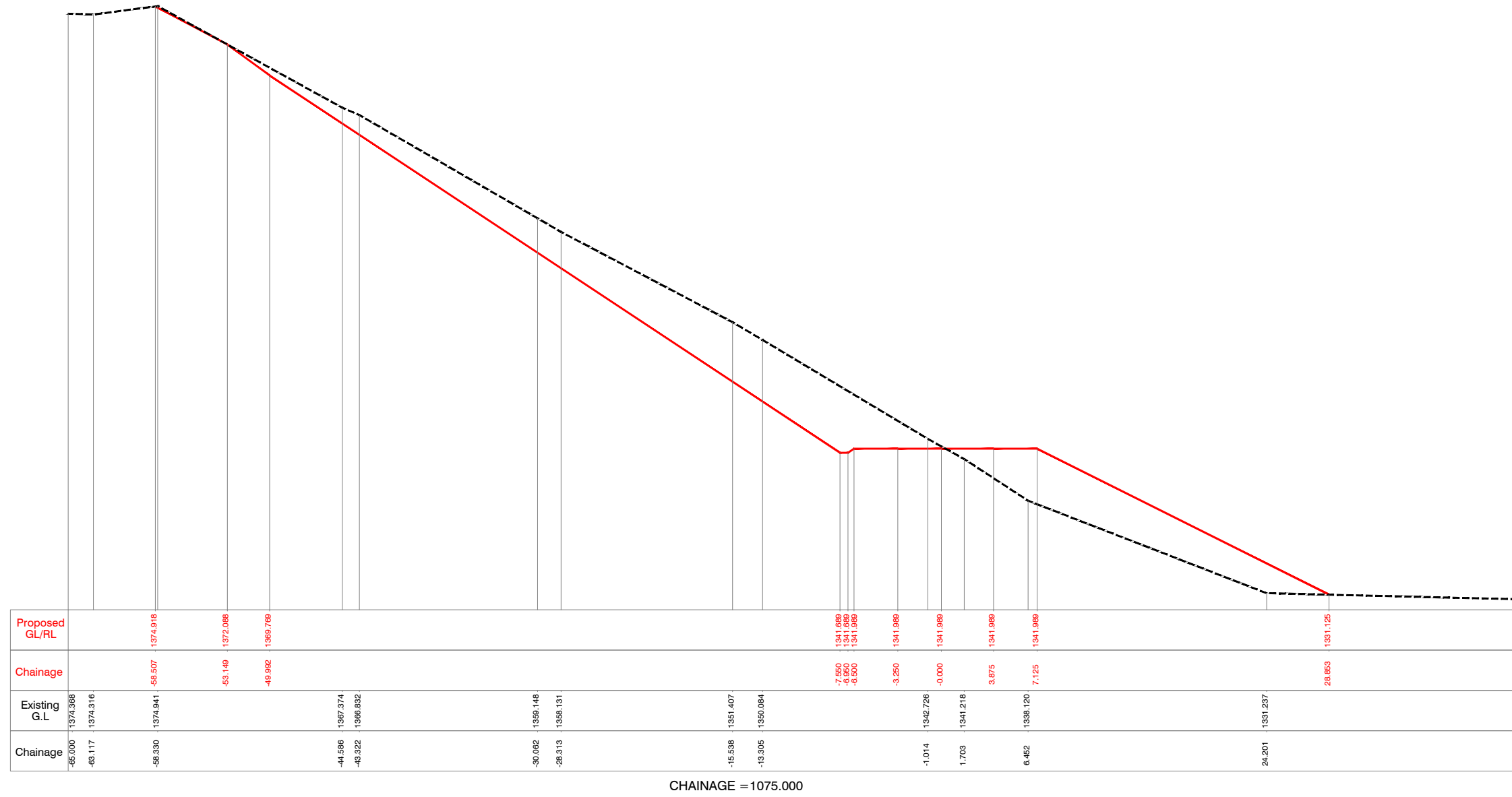
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 0.975 to KM @ 1.050


Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737833; Fax: +91 -40-23738277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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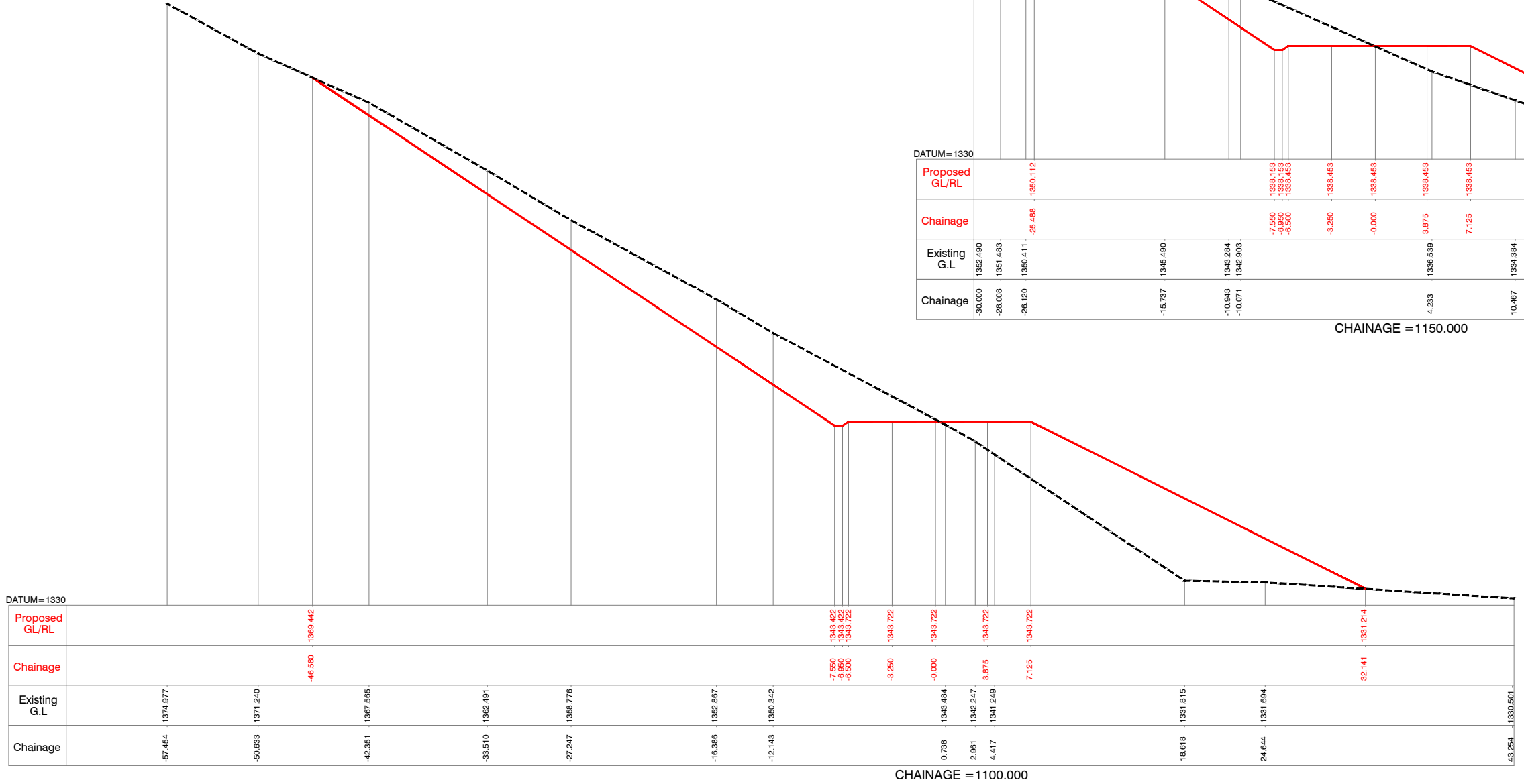
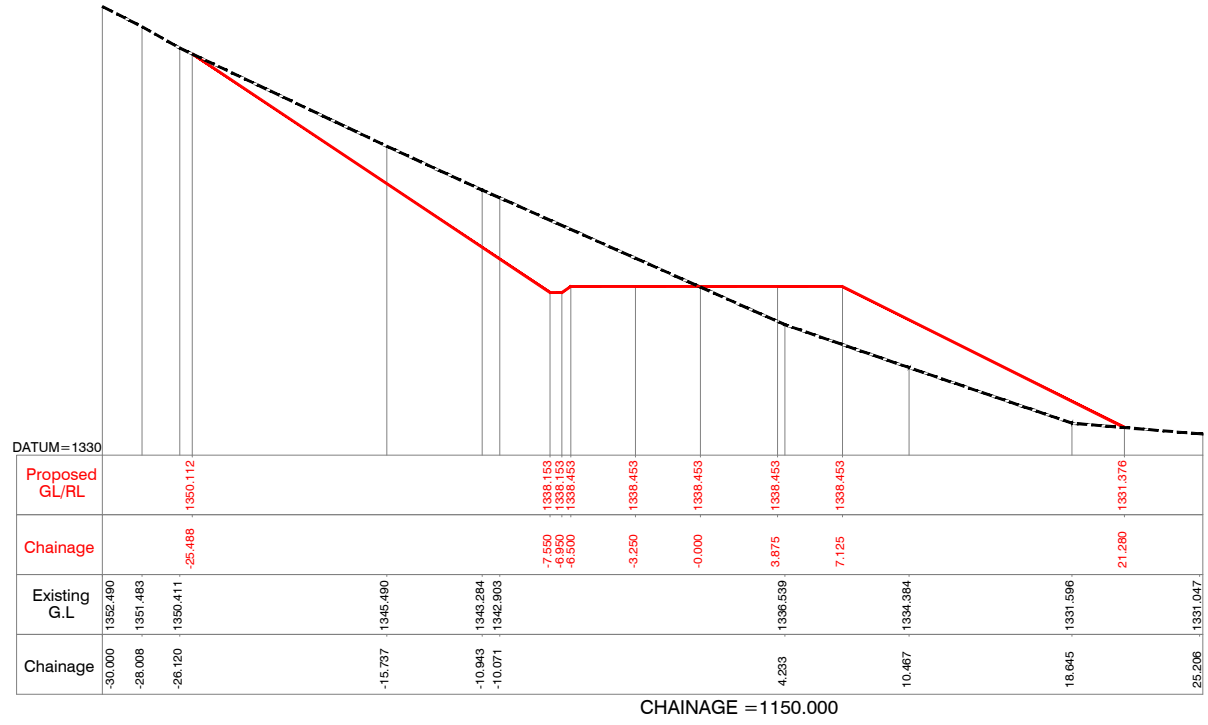
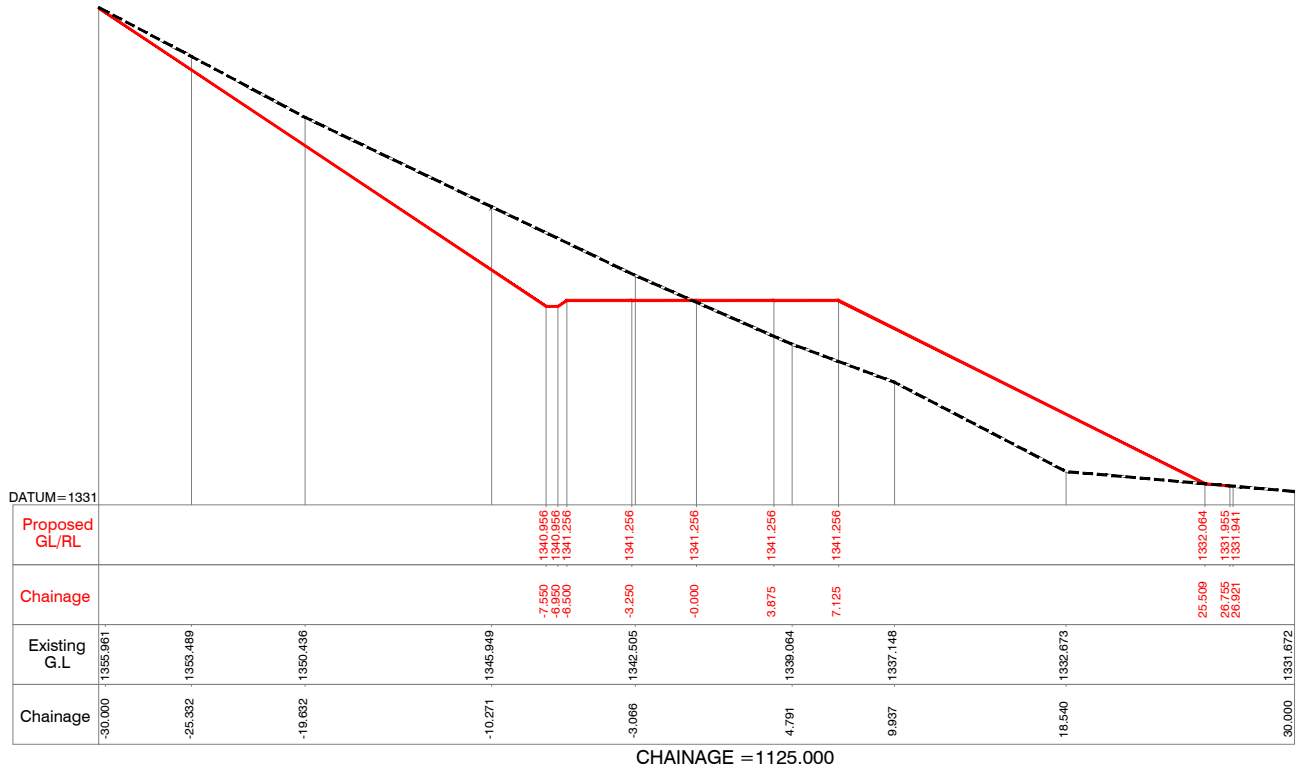
CHAINAGE = 1075.000

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATON SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 1.075

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
Revaala Presidency, Srinagar Colony Main Rd., Hyderabad-52, India
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 e-mail: irrigation@aarvee.net, web:www.aarvee.net



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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

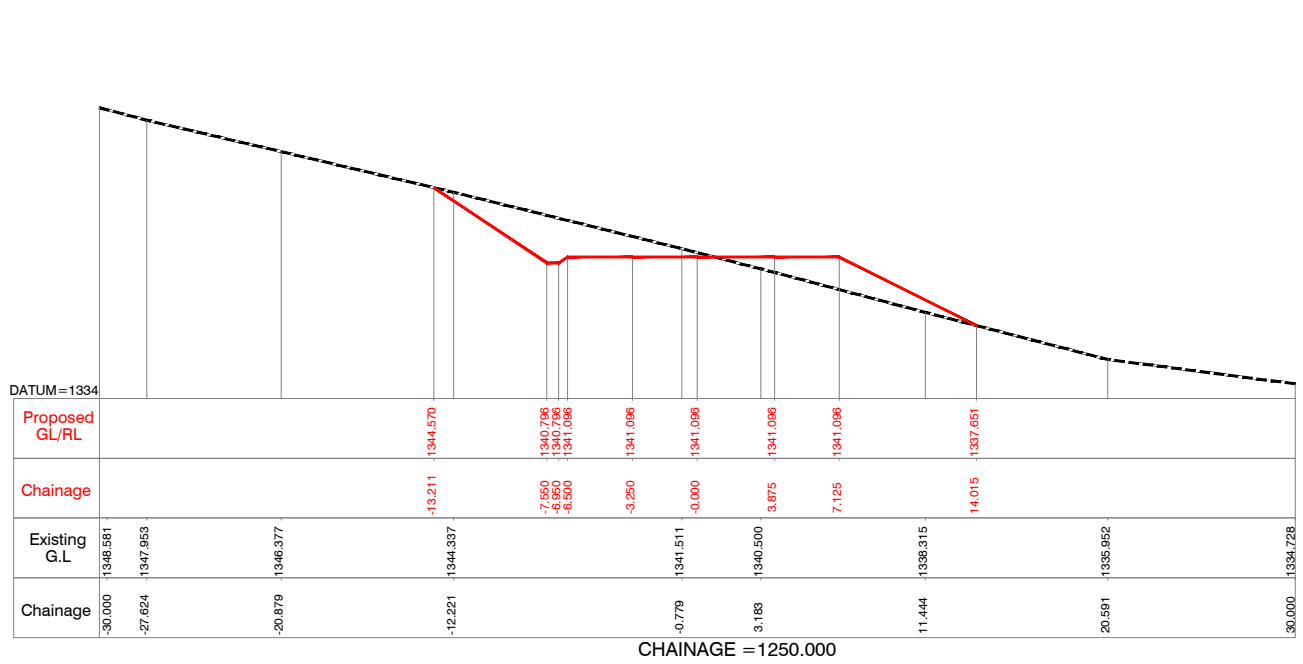
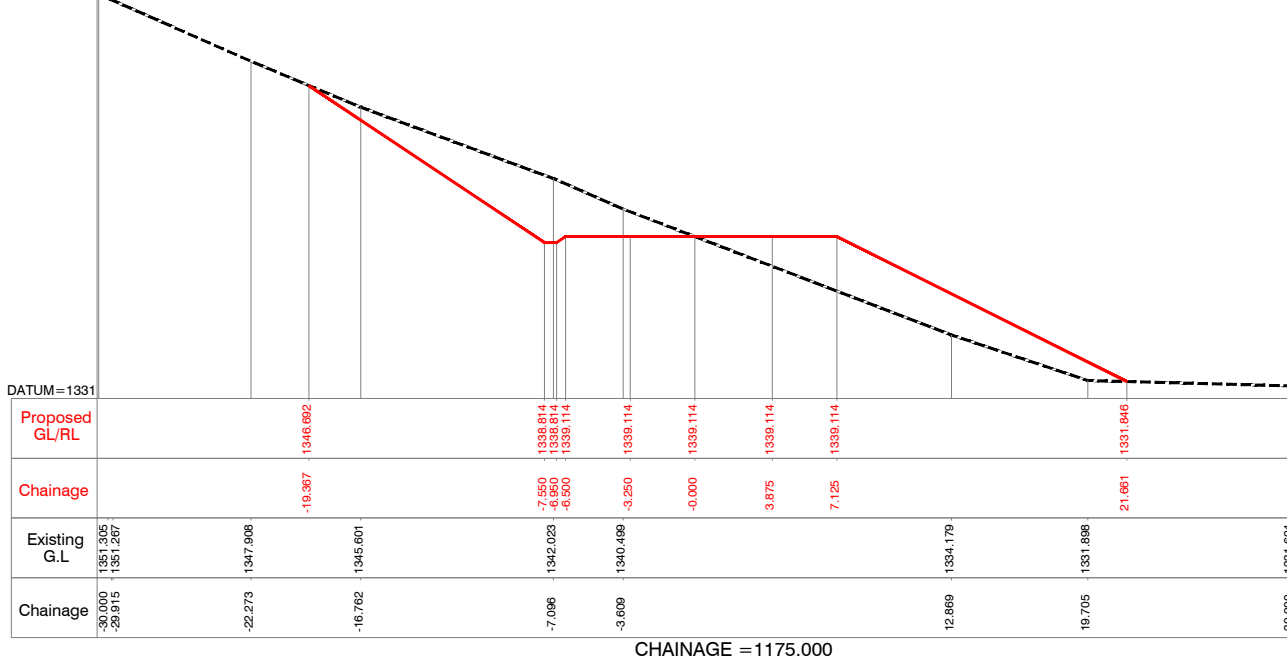
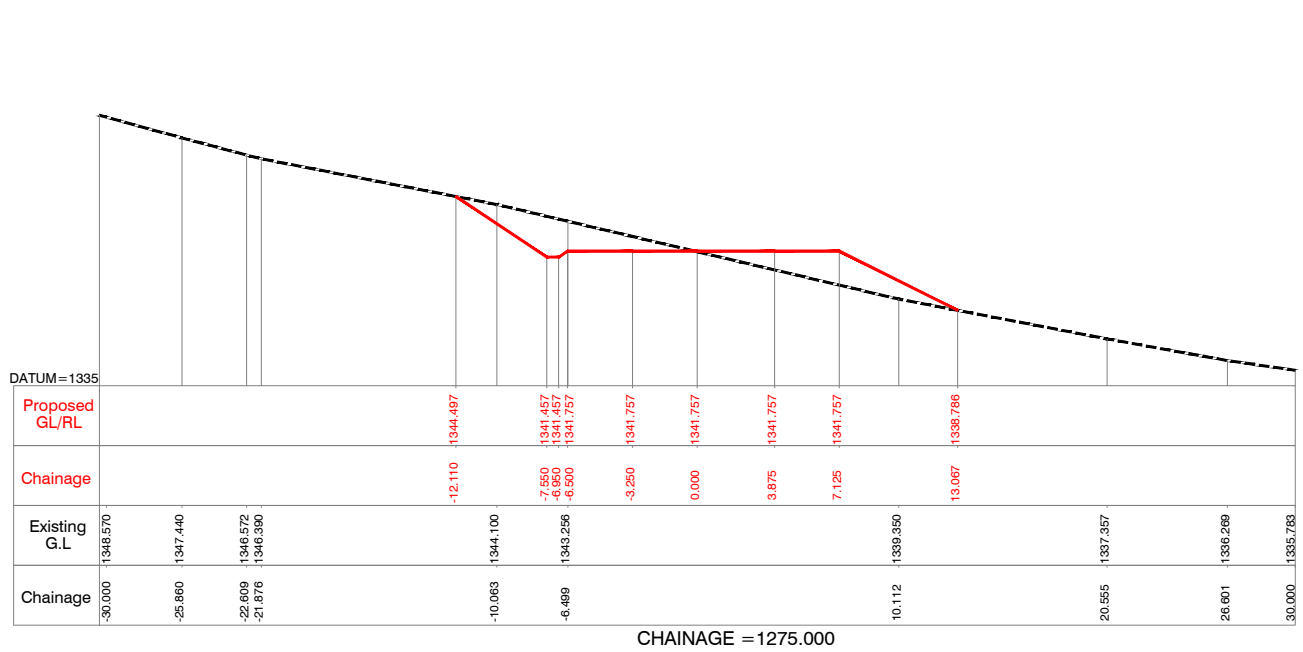
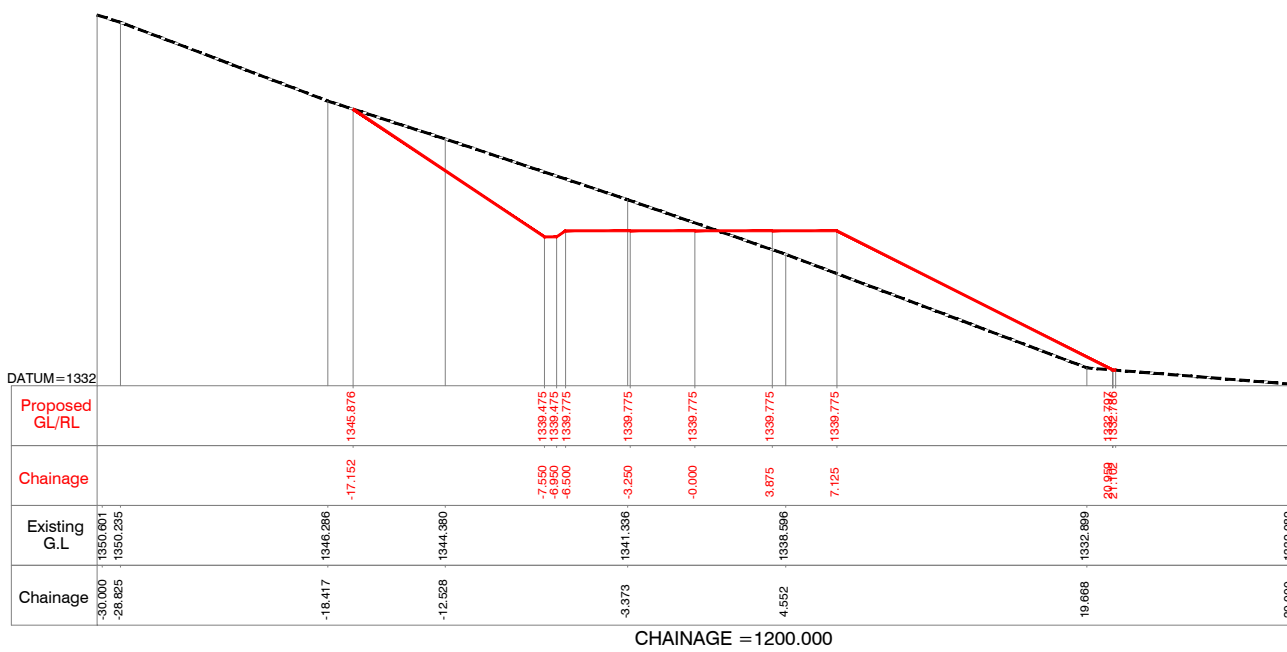
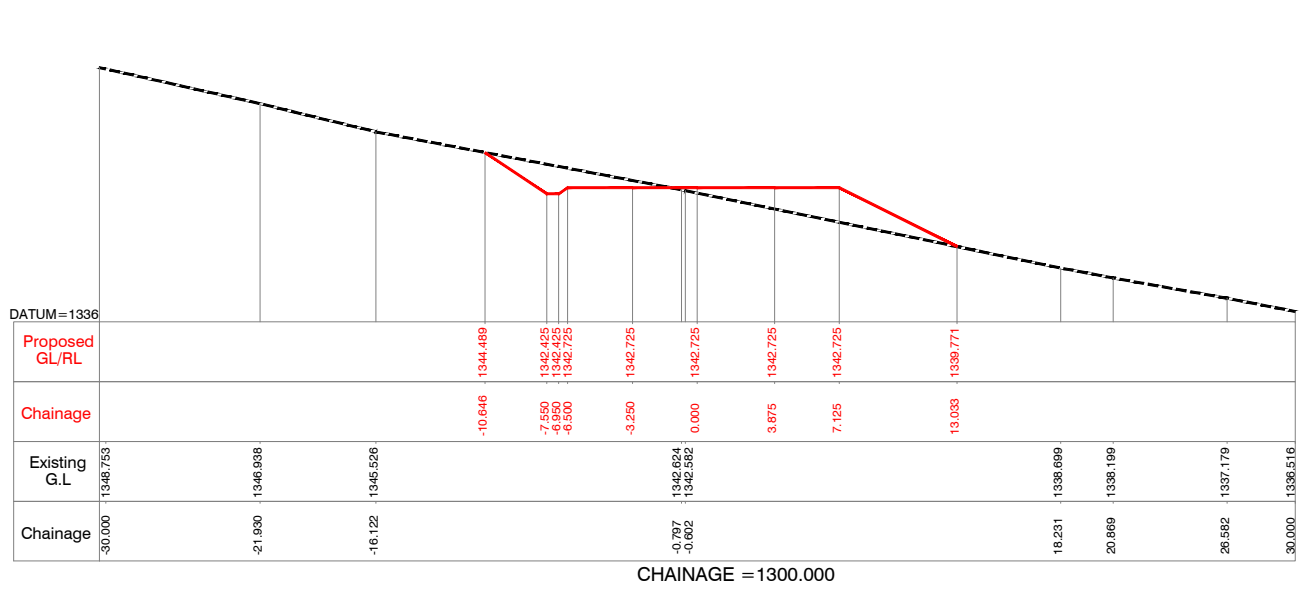
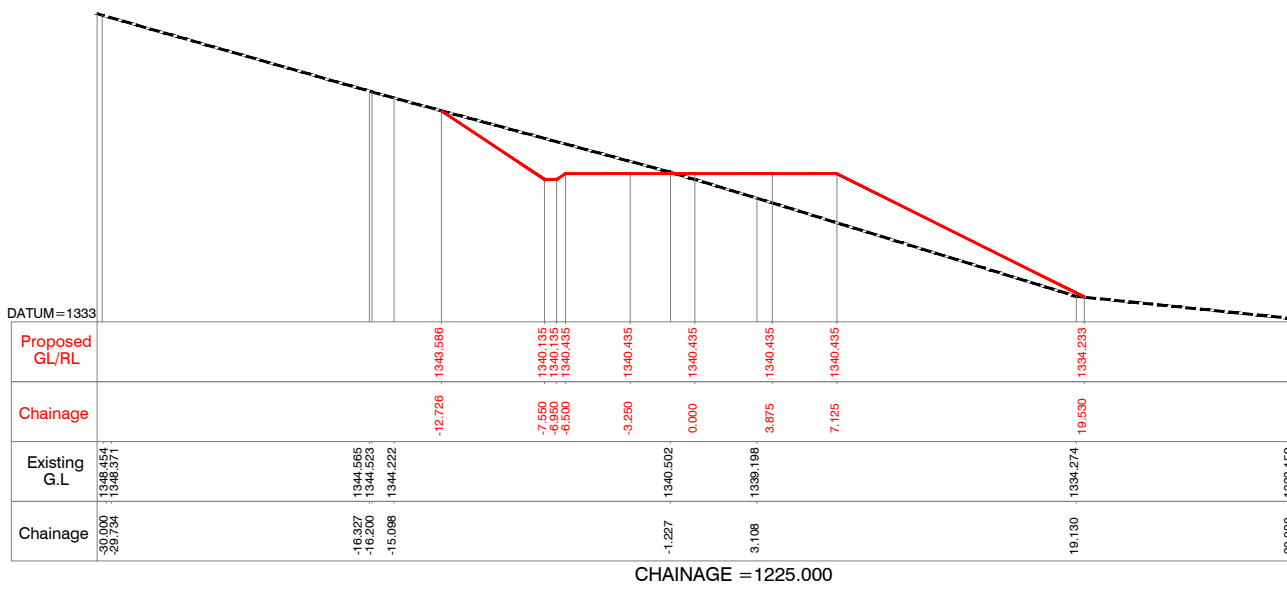
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @1.100 to KM @ 1.150

Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

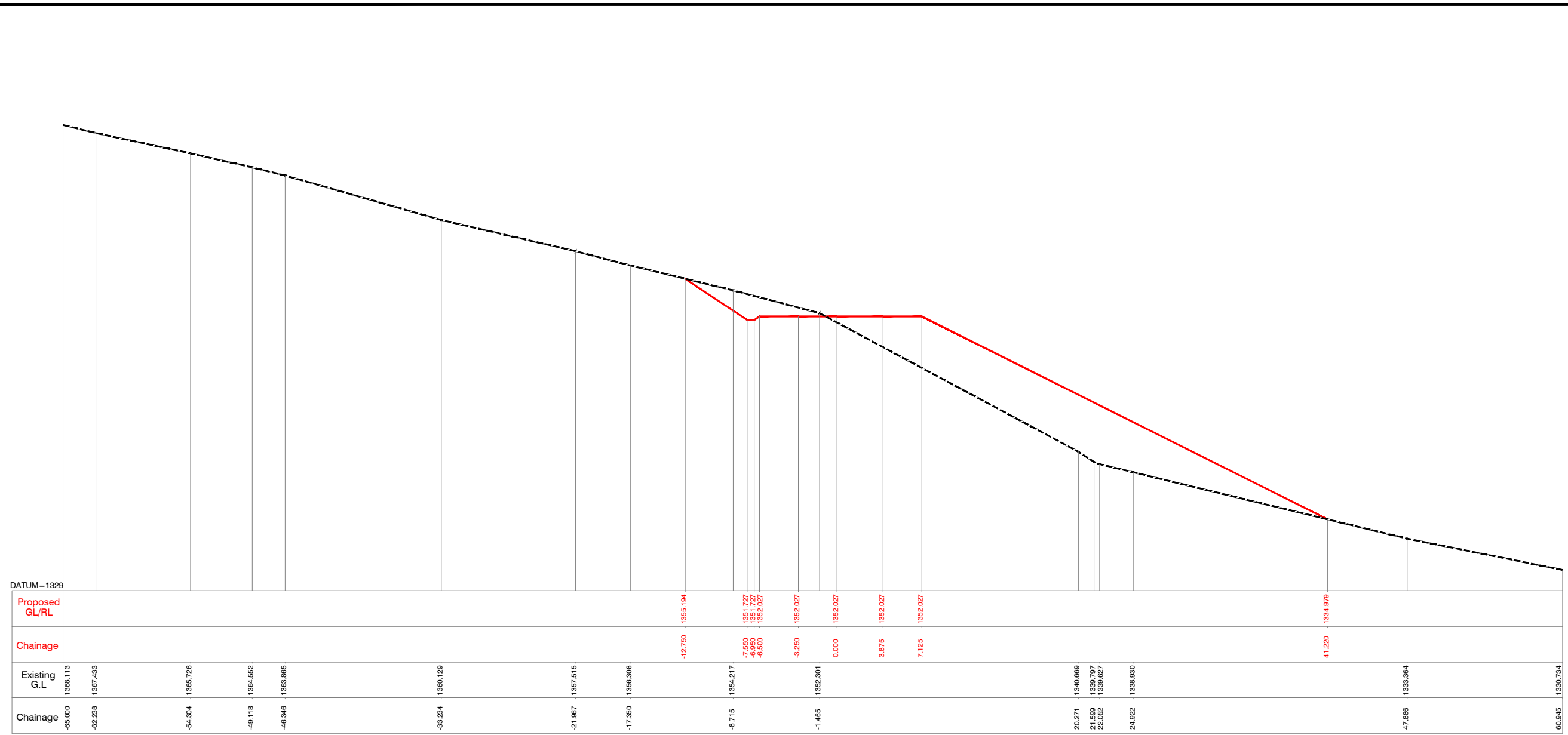


Client: **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

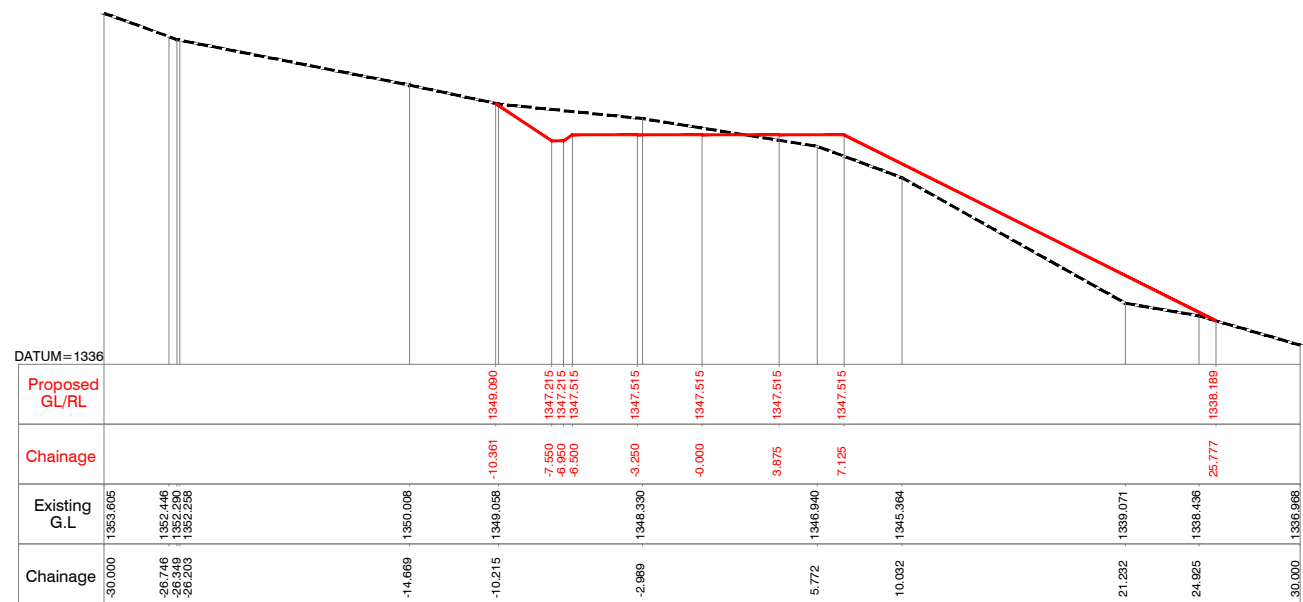
Project: **KABUYANDA IRRIGATION SCHEME**

Title: **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 1.175 to KM @ 1.300

Consultants: **aarvee associates**
architects engineers & consultants pvt.ltd.
Ravula Presidency, Seungar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net



CHAINAGE = 1350.000



CHAINAGE = 1325.000

NOTES:-

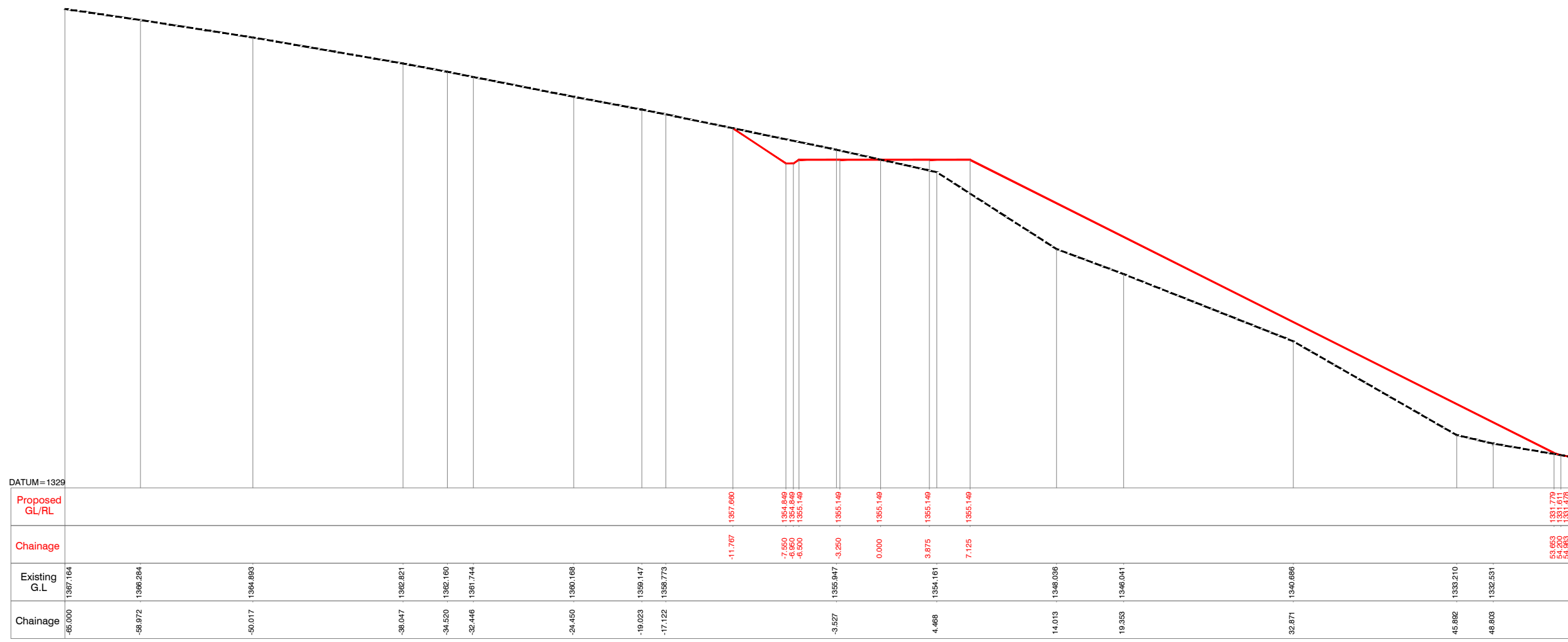
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

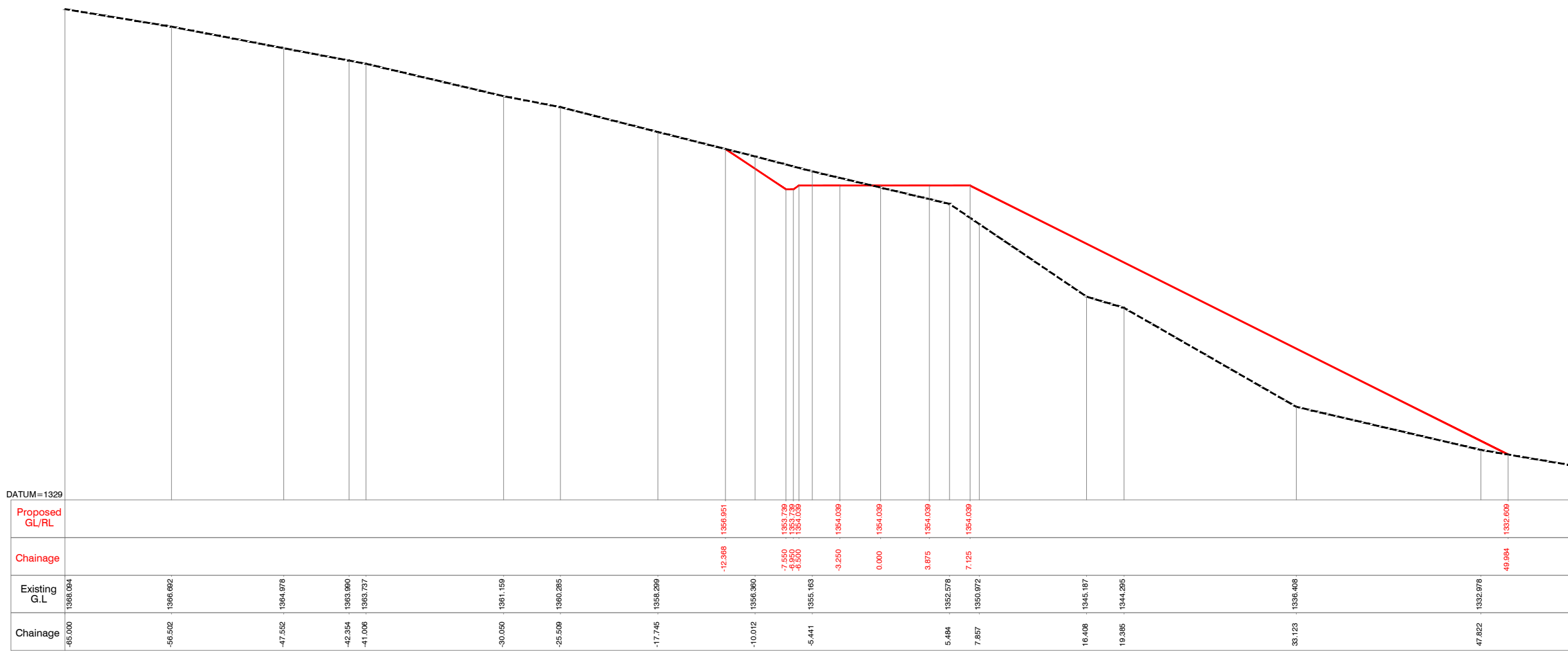
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 1.325 to KM @ 1.350

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revela Residency, Singareddy Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



CHAINAGE = 1400.000



CHAINAGE = 1375.000

- NOTES:-**
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

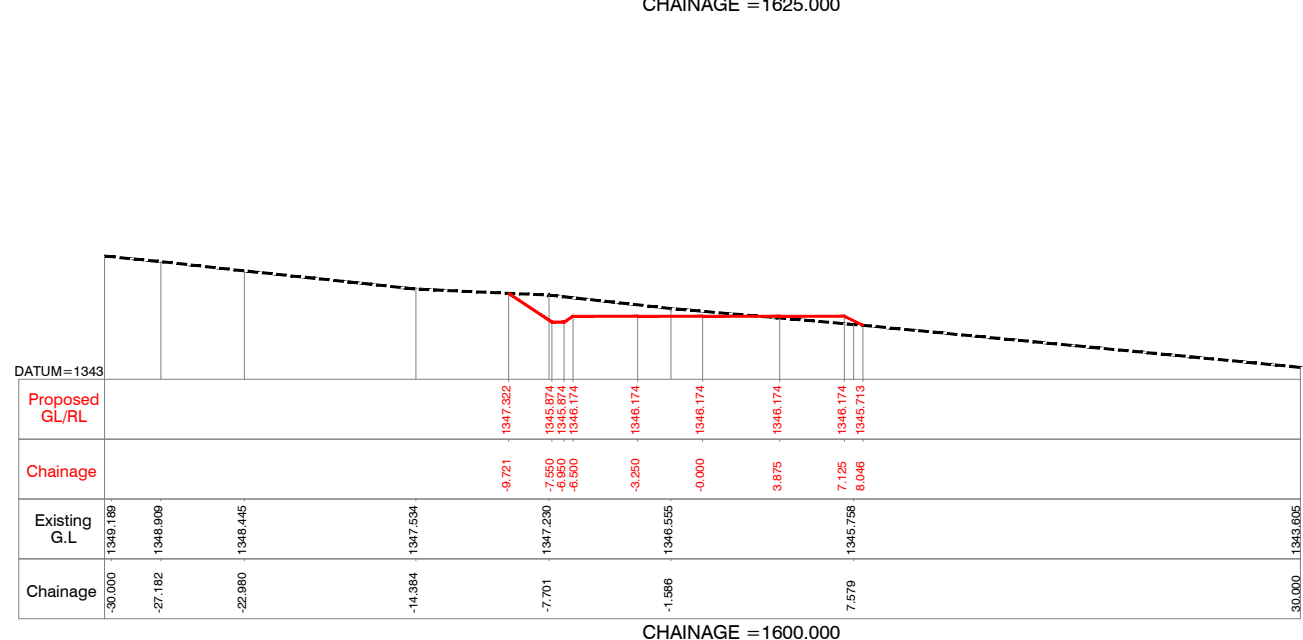
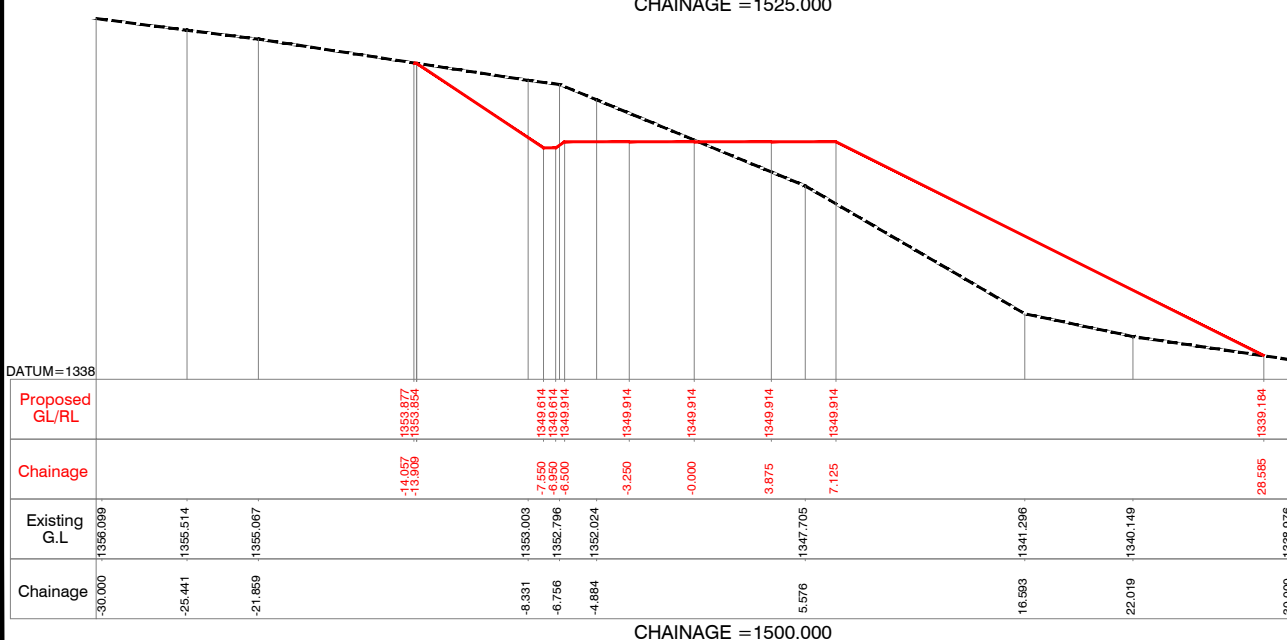
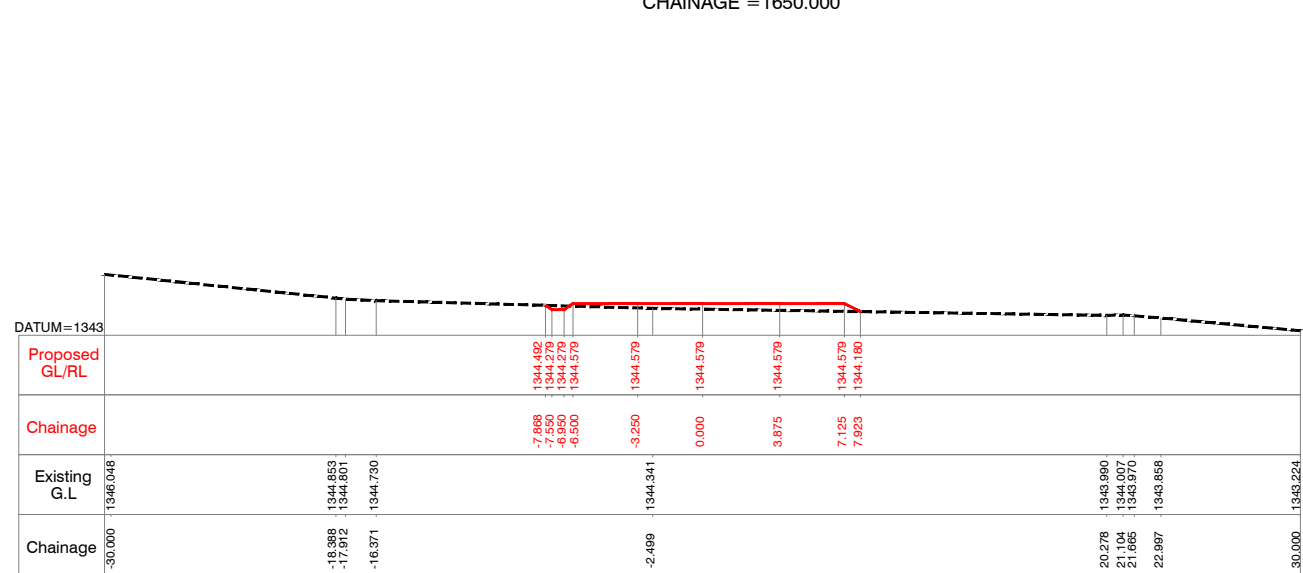
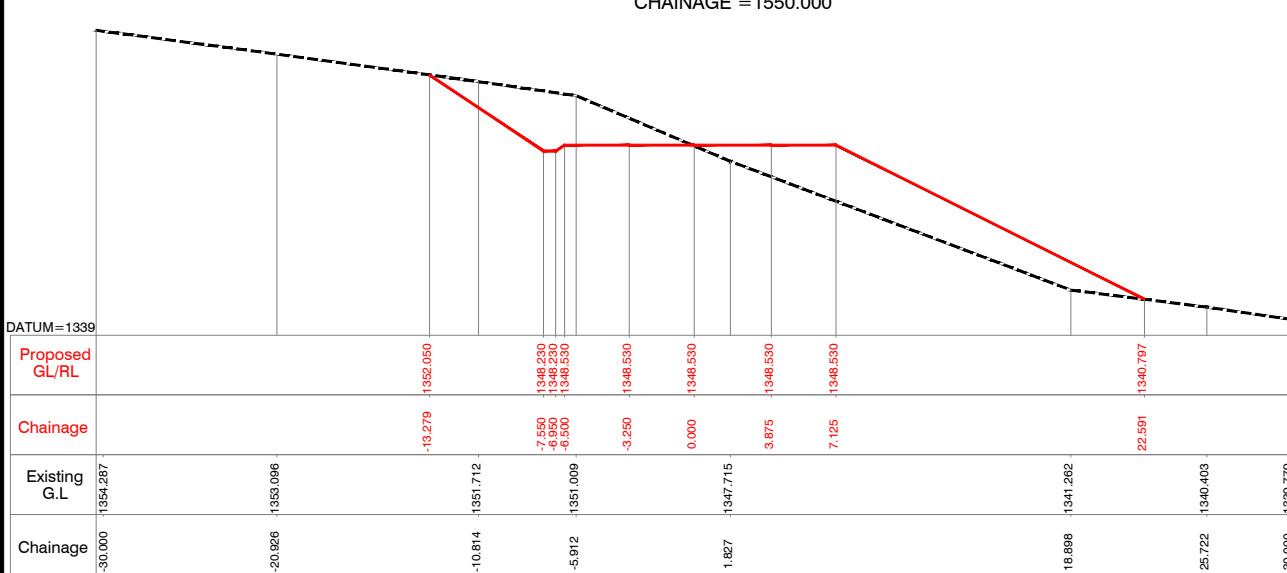
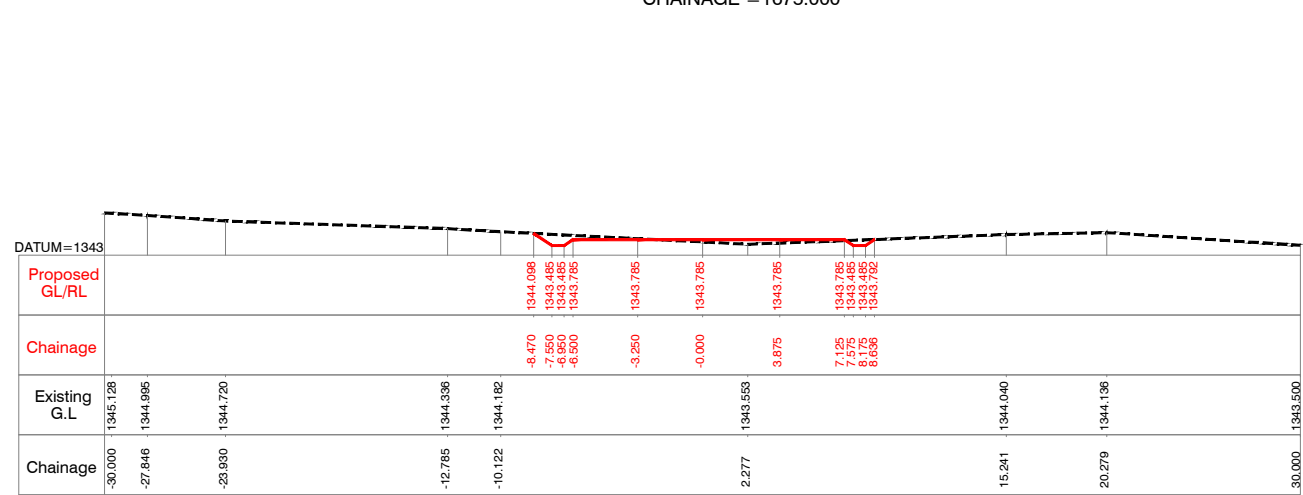
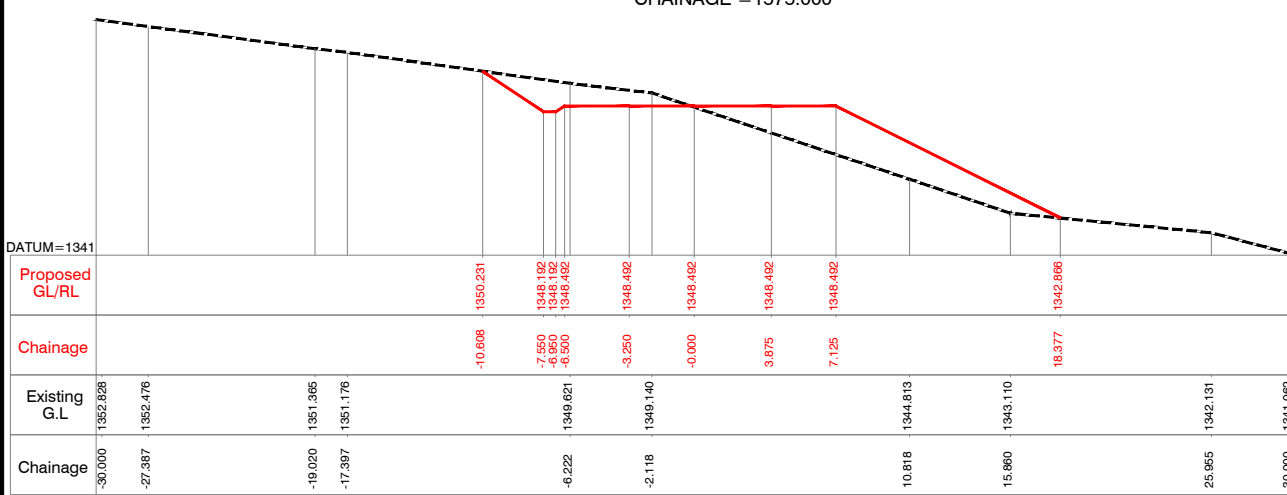
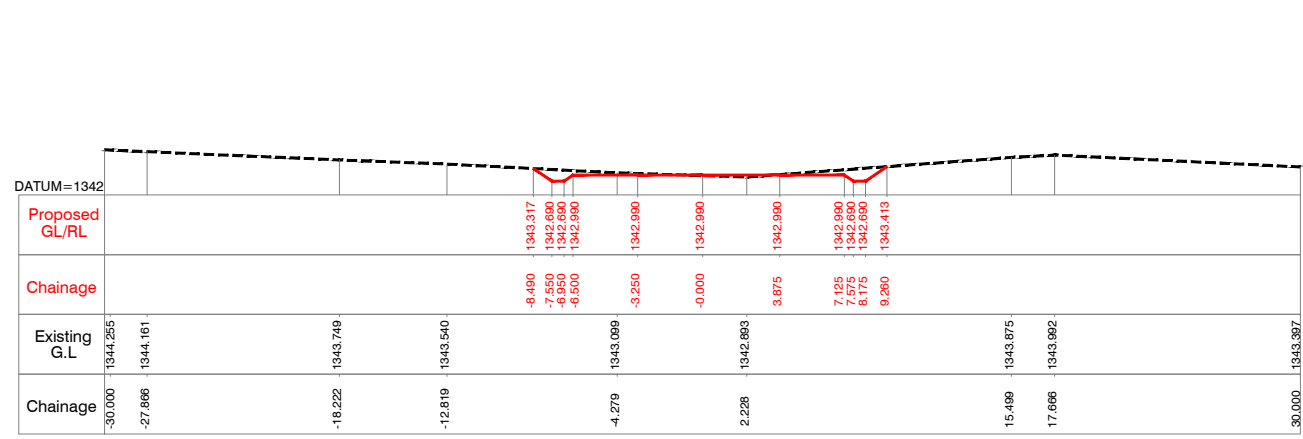
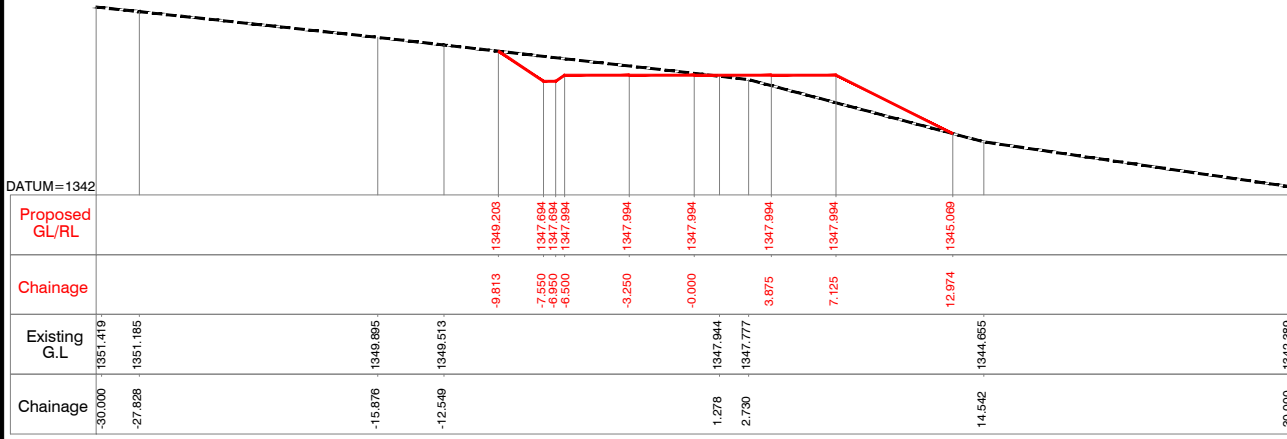
Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT


Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 1.375 to KM @ 1.400

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Singareg Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net


NOTES:-
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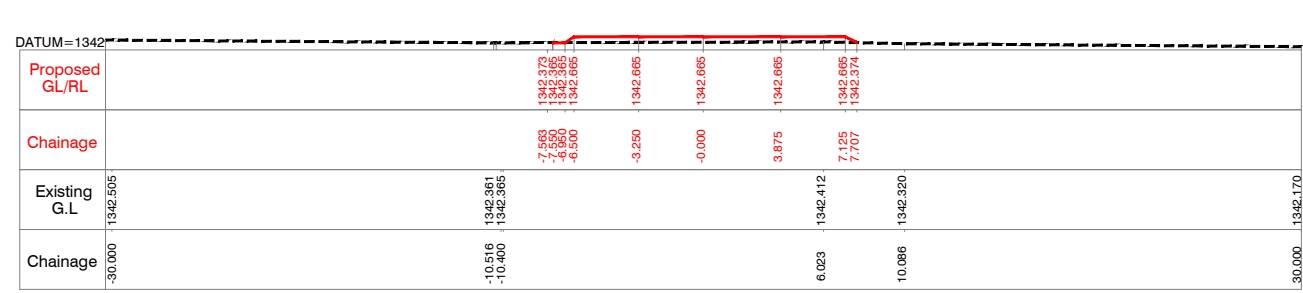
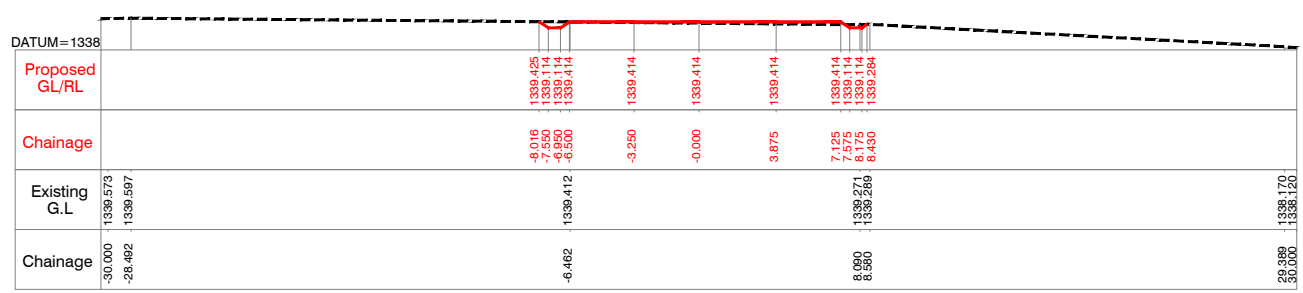
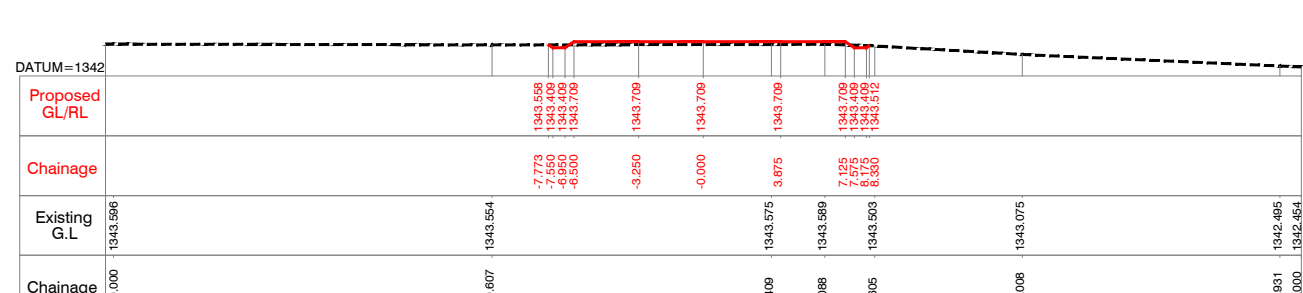
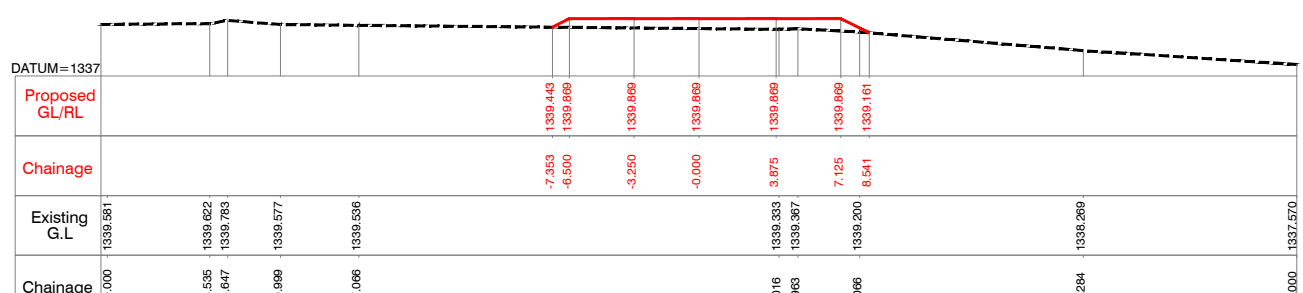
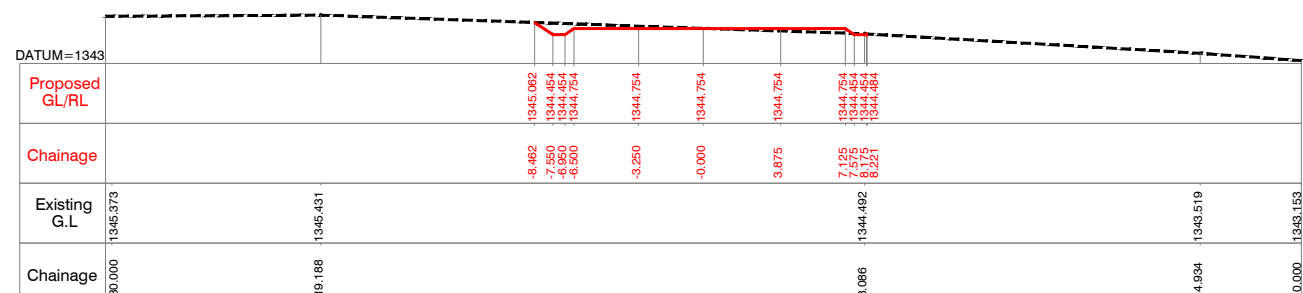
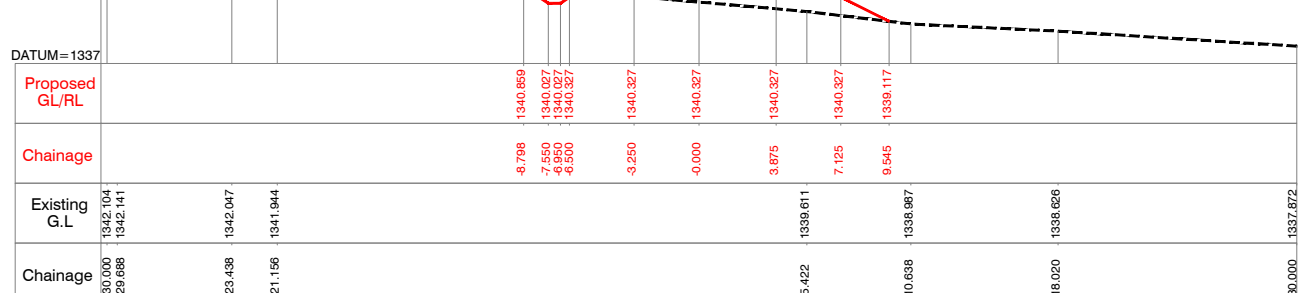
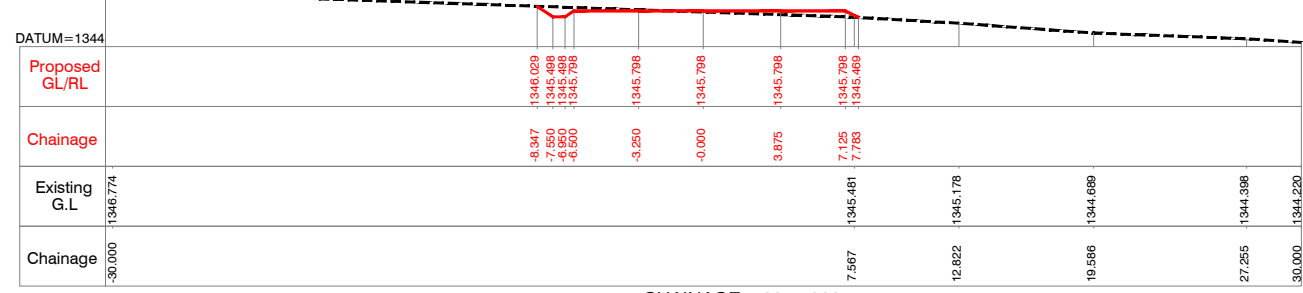
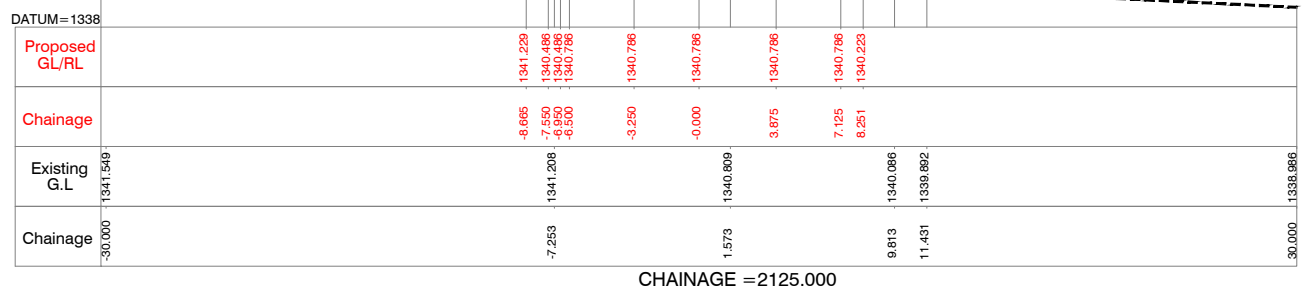
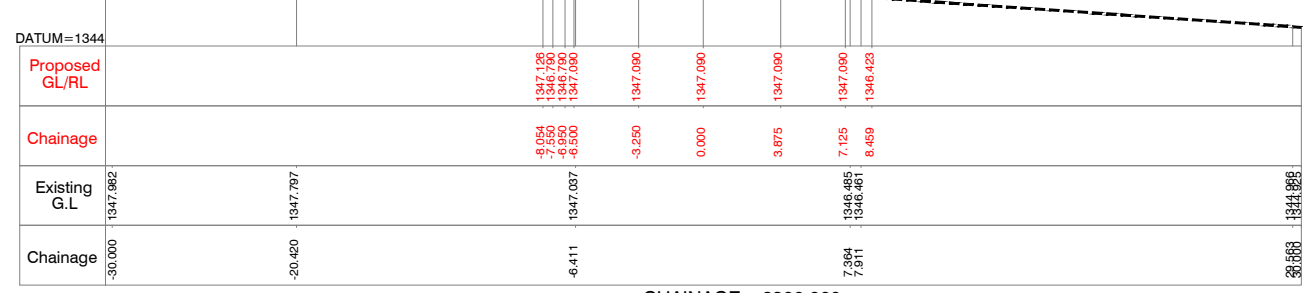
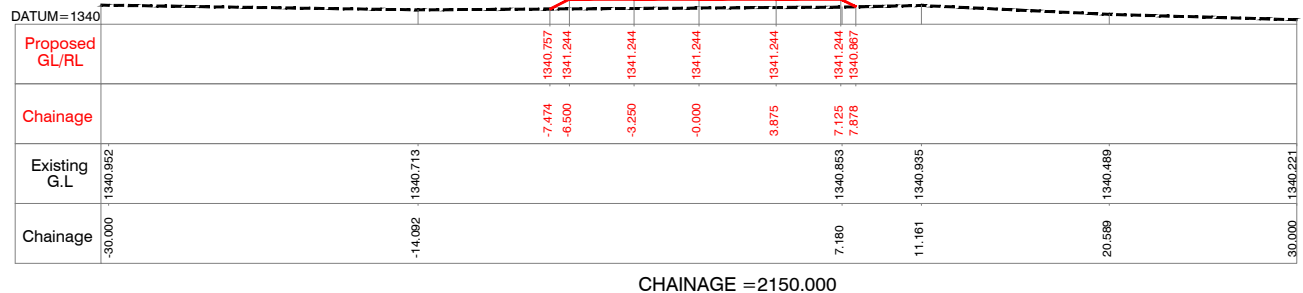
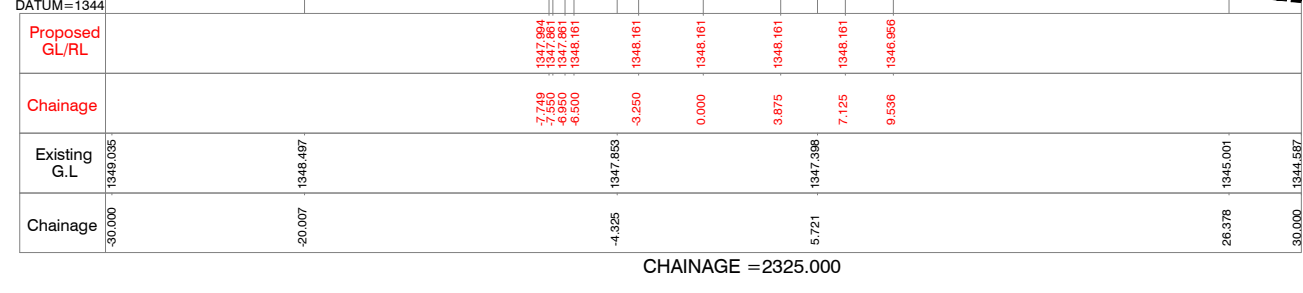
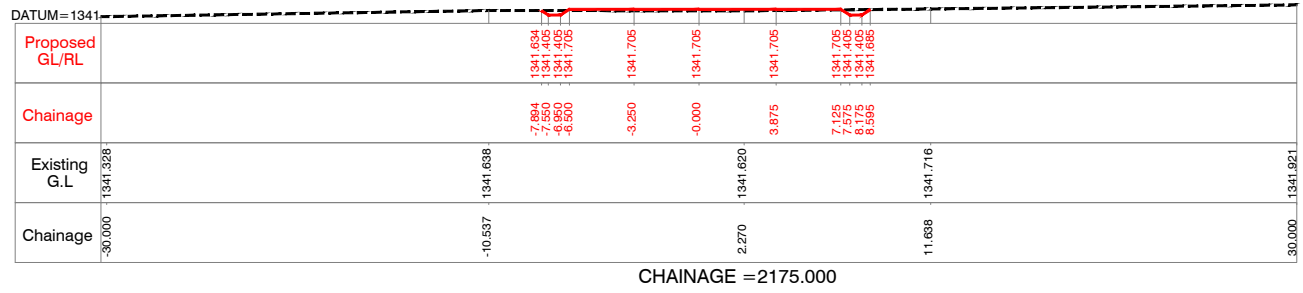


Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 1.500 to KM @ 1.675

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragade Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737833; Fax: +91-40-23738277
 e-mail: irrigation@aarvee.net; web: www.aarvee.net



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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

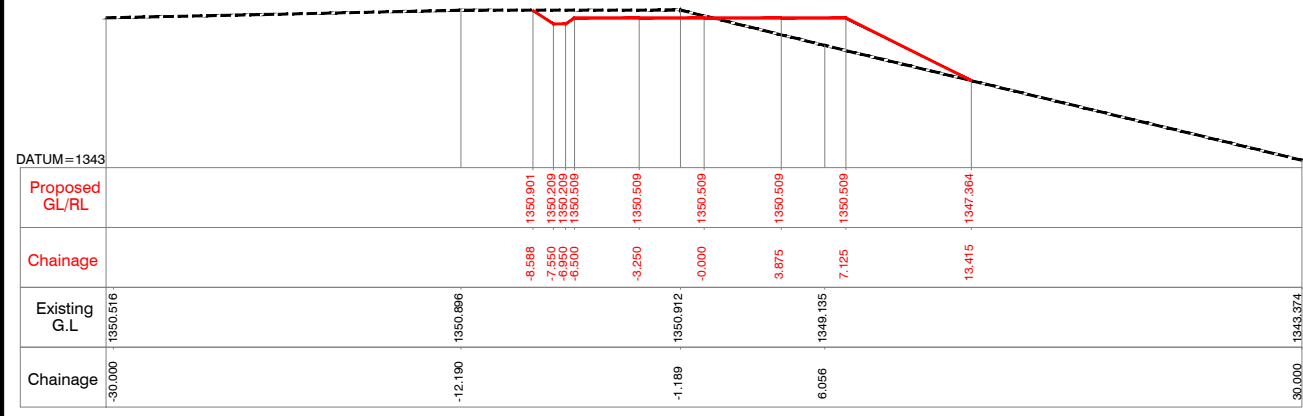
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 2.050 to KM @ 2.325

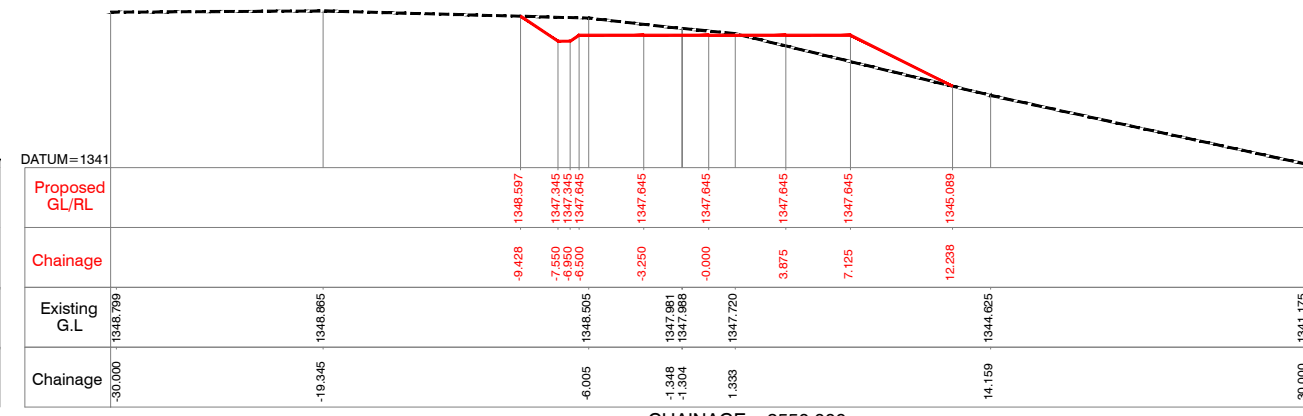
Consultants :
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Srirangar Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-40-23736277
 e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

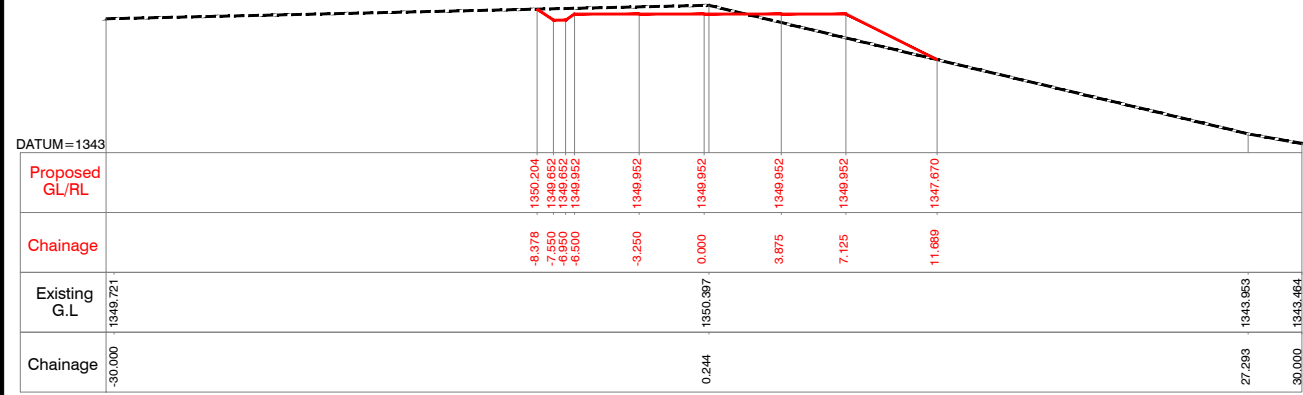
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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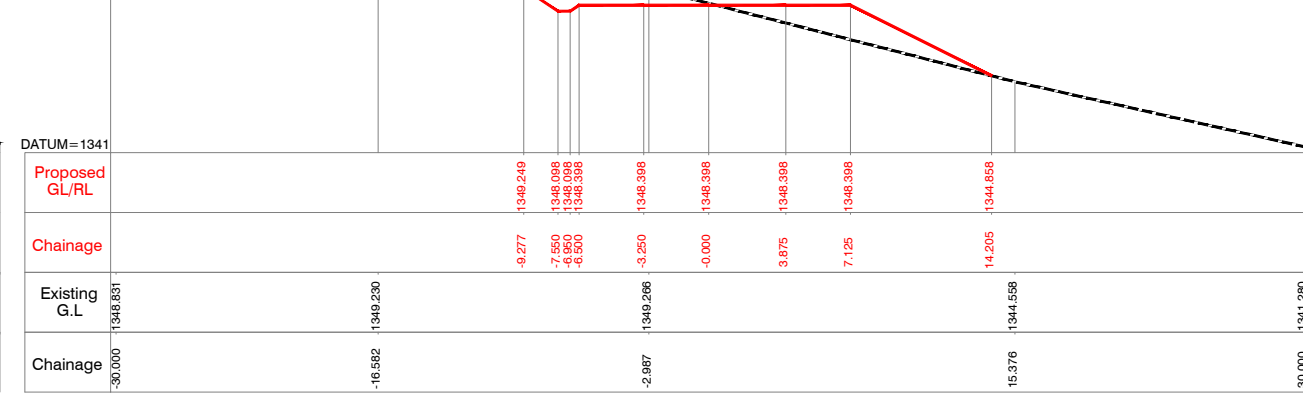
CHAINAGE = 2450.000



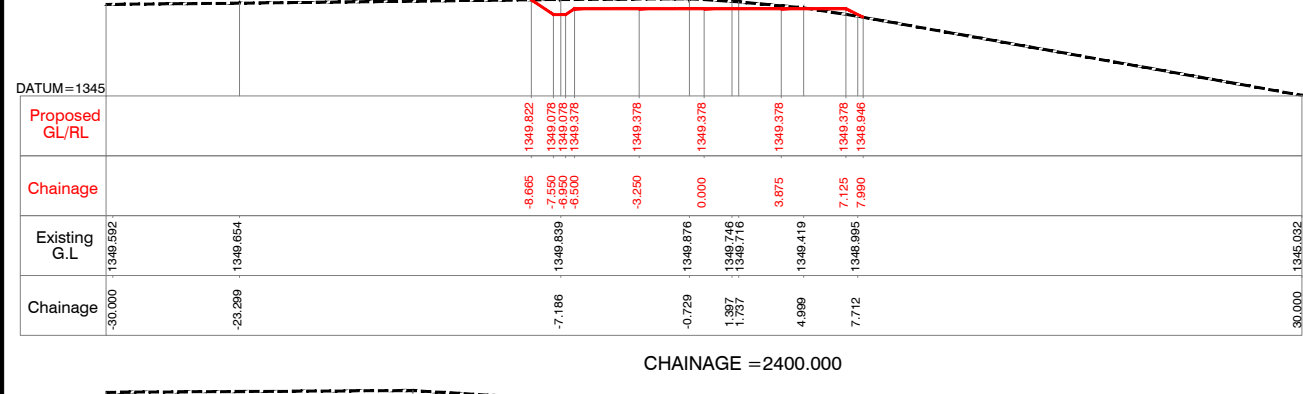
CHAINAGE = 2550.000



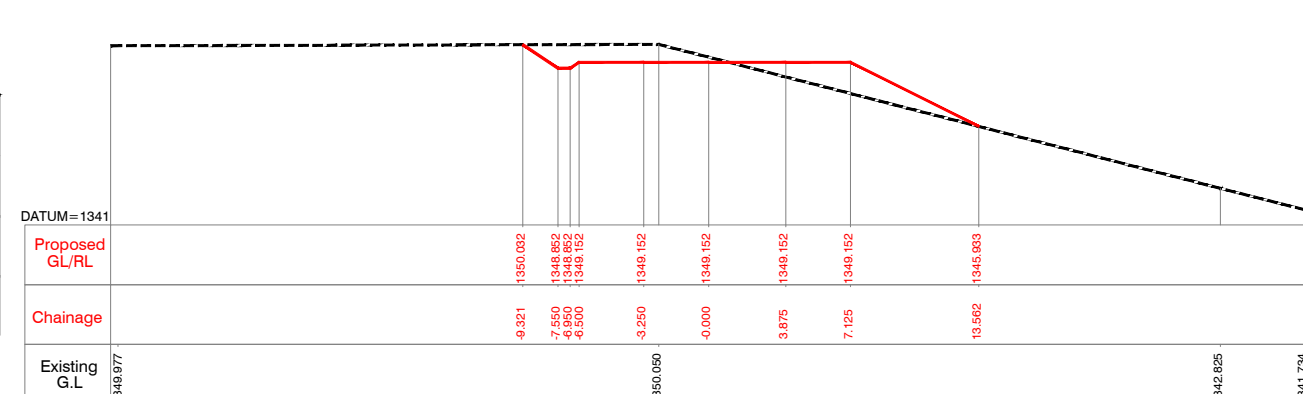
CHAINAGE = 2425.000



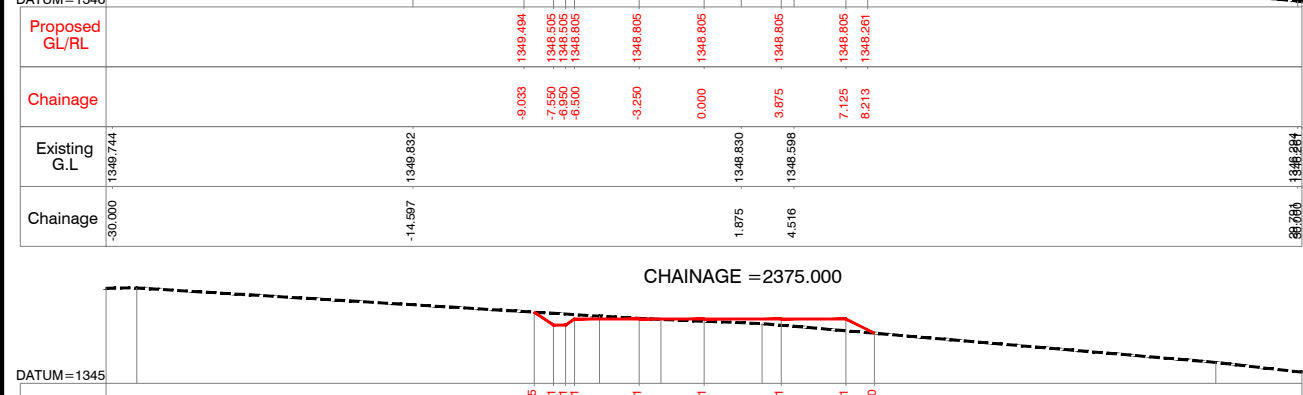
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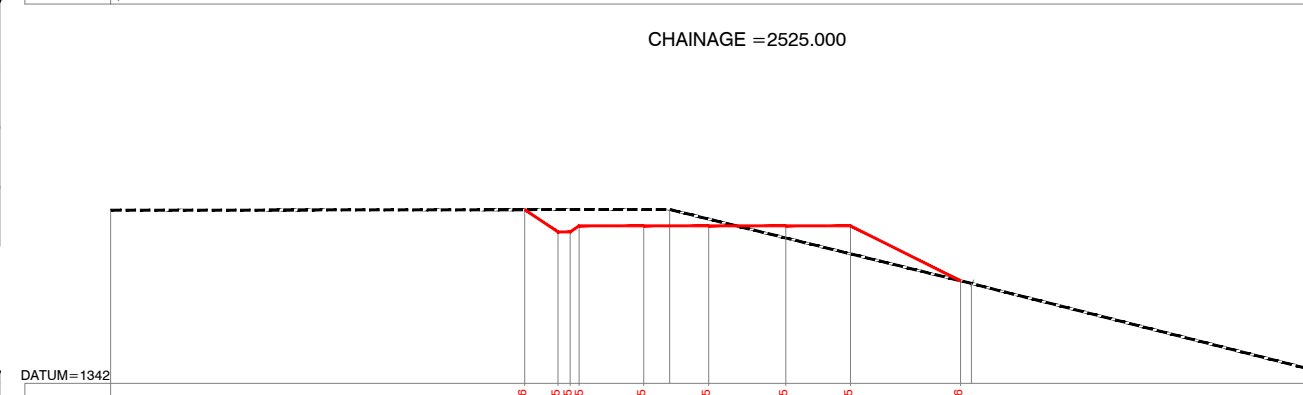
CHAINAGE = 2400.000



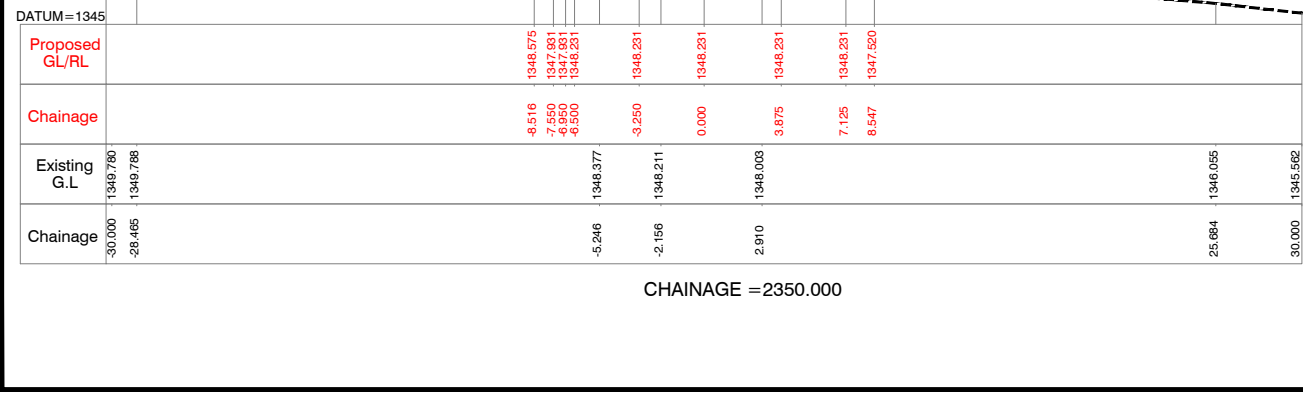
CHAINAGE = 2525.000



CHAINAGE = 2375.000



CHAINAGE = 2475.000



CHAINAGE = 2350.000

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 2.350 to KM @ 2.550

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revuru Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737833; Fax: +91-4023738277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

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| | | | |
|----------------|----------------------|--|----------|
| DATUM = 1337 | | | |
| Proposed GL/RL | | 1340.912 1340.489 1340.489 1340.786 1340.789 1340.789 1340.789 1339.744 | |
| Chainage | | -8.985 -7.550 -6.950 -3.250 -0.000 3.875 7.125 9.215 | |
| Existing G.L | 1341.876 1341.061 | 1340.773 1340.887 | 1337.969 |
| Chainage | -30.000 -14.477 | -2.334 0.984 | 30.000 |

CHAINAGE = 2675.000

| | | | |
|----------------|----------------------|--|----------------------|
| DATUM = 1334 | | | |
| Proposed GL/RL | | 1334.695 1334.591 1334.591 1334.891 1334.891 1334.891 1334.891 1334.772 | |
| Chainage | | -9.005 -8.500 -6.500 -3.250 0.000 3.875 7.995 8.446 | |
| Existing G.L | 1335.629 1335.241 | 1334.644 1334.702 | 1335.030 1335.119 |
| Chainage | -30.000 -18.717 | -0.248 1.086 | 24.584 30.000 |

CHAINAGE = 2800.000

| | | | |
|----------------|----------------------|--|--------------------|
| DATUM = 1338 | | | |
| Proposed GL/RL | | 1344.028 1342.569 1342.569 1342.569 1342.569 1342.569 1342.020 | |
| Chainage | | -9.739 -7.550 -6.950 -3.250 -0.000 3.875 7.125 8.823 | |
| Existing G.L | 1344.484 1344.460 | 1343.274 1339.708 | 1338.401 |
| Chainage | -30.000 -15.588 | 0.451 24.249 | 30.000 1338.401 |

CHAINAGE = 2650.000

| | | | |
|----------------|----------------------|--|----------------------|
| DATUM = 1336 | | | |
| Proposed GL/RL | | 1336.687 1337.409 1337.409 1337.409 1337.409 1337.409 1336.081 | |
| Chainage | | -7.985 -6.500 -3.250 0.000 3.875 7.125 9.791 | |
| Existing G.L | 1336.130 1336.794 | 1336.460 1336.466 | 1336.425 1336.439 |
| Chainage | -30.000 -11.380 | -1.669 1.390 | 21.321 30.000 |

CHAINAGE = 2775.000

| | | | |
|----------------|----------------------|--|--------------------|
| DATUM = 1339 | | | |
| Proposed GL/RL | | 1345.558 1345.065 1345.065 1345.365 1345.365 1345.365 1343.455 | |
| Chainage | | -8.259 -7.550 -6.950 -3.250 -0.000 3.875 7.125 10.986 | |
| Existing G.L | 1345.595 1344.951 | 1345.557 1344.521 | 1339.019 |
| Chainage | -30.000 -2.885 | 4.478 15.045 | 30.000 1339.019 |

CHAINAGE = 2625.000

| | | | |
|----------------|----------------------|--|----------------------------------|
| DATUM = 1337 | | | |
| Proposed GL/RL | | 1337.718 1337.390 1337.390 1337.690 1337.690 1337.690 1337.390 1337.563 | |
| Chainage | | -9.102 -7.550 -6.950 -3.250 0.000 3.875 7.195 8.495 | |
| Existing G.L | 1337.310 1337.616 | 1337.787 1337.276 | 1337.621 1337.906 1337.932 |
| Chainage | -30.000 -18.019 | -1.327 2.083 | 13.316 15.153 30.000 |

CHAINAGE = 2750.000

| | | | |
|----------------|----------------------------------|--|----------------------|
| DATUM = 1339 | | | |
| Proposed GL/RL | | 1346.689 1346.689 1346.138 1346.138 1346.138 1344.240 | |
| Chainage | | -8.466 -7.550 -6.950 -3.250 -0.000 3.875 7.125 10.923 | |
| Existing G.L | 1346.753 1346.852 1346.773 | 1345.140 1346.138 | 1340.045 1339.748 |
| Chainage | -30.000 -19.651 -12.057 | 7.003 28.762 | 30.000 1339.748 |

CHAINAGE = 2600.000

| | | | |
|----------------|----------------------|--|----------------------|
| DATUM = 1338 | | | |
| Proposed GL/RL | | 1338.612 1338.612 1338.906 1338.906 1338.906 1338.906 1338.612 1338.906 1338.906 | |
| Chainage | | -5.175 -4.950 -6.950 -3.250 0.000 3.875 7.125 8.175 8.606 | |
| Existing G.L | 1338.382 1338.467 | 1338.637 1338.690 | 1338.136 1338.062 |
| Chainage | -30.000 -21.702 | 4.370 27.624 | 30.000 1338.062 |

CHAINAGE = 2725.000

| | | | |
|----------------|----------------------|--|--------------------|
| DATUM = 1339 | | | |
| Proposed GL/RL | | 1347.239 1346.592 1346.592 1346.892 1346.892 1346.892 1344.017 | |
| Chainage | | -8.520 -7.550 -6.950 -3.250 -0.000 3.875 7.125 12.874 | |
| Existing G.L | 1348.108 1347.714 | 1346.480 1346.900 | 1339.694 |
| Chainage | -30.000 -12.990 | -1.397 4.974 | 30.000 1339.694 |

CHAINAGE = 2575.000

| | | | |
|----------------|----------------------|--|--------------------|
| DATUM = 1337 | | | |
| Proposed GL/RL | | 1339.905 1339.895 1339.496 1339.496 1339.496 1339.742 1339.742 1339.742 1339.742 1338.976 | |
| Chainage | | -8.245 -7.929 -7.280 -6.950 -6.730 -3.250 0.000 3.875 7.125 8.658 | |
| Existing G.L | 1340.614 1340.382 | 1339.738 1339.579 | 1337.282 |
| Chainage | -30.000 -29.953 | -3.041 1.058 | 30.000 1337.282 |

CHAINAGE = 2700.000

Client :  **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
KM @ 2.575 to KM @ 2.800**

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Ravula Presidency, Sagar Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

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DATUM= 1331

| | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Proposed GL/RL | | | 1331.244 | 1331.647 | 1331.647 | 1331.647 | 1331.647 | 1331.189 | | |
| Chainage | | | 7.307 | 6.500 | 3.250 | 0.000 | 3.875 | 7.125 | 8.022 | |
| Existing G.L | 1331.425 | 1331.390 | | | | 1331.156 | 1331.053 | 1331.296 | 1331.283 | 1331.329 |
| Chainage | 30.000 | 21.383 | | | | 1.172 | 5.183 | 9.132 | 26.523 | 30.000 |

CHAINAGE = 2875.000

DATUM= 1326

| | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Proposed GL/RL | | | 1327.008 | 1327.762 | 1326.002 | 1326.002 | 1326.002 | 1326.002 | 1326.002 | 1326.823 |
| Chainage | | | 7.786 | 7.550 | 6.650 | 3.250 | 0.000 | 3.875 | 7.125 | 9.768 |
| Existing G.L | 1326.675 | 1326.866 | | | | | | 1326.581 | 1326.927 | 1326.830 |
| Chainage | 30.000 | 24.838 | | | | | | 3.316 | 5.920 | 24.694 |

CHAINAGE = 3075.000

DATUM= 1331

| | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Proposed GL/RL | | | 1332.060 | 1331.829 | 1332.129 | 1332.129 | 1332.129 | 1332.129 | 1332.204 | |
| Chainage | | | 7.897 | 7.550 | 6.500 | 3.250 | 0.000 | 3.875 | 7.125 | 8.738 |
| Existing G.L | 1332.114 | 1332.050 | | | | | 1332.077 | 1332.182 | | 1332.324 |
| Chainage | 30.000 | 14.222 | | | | | 2.519 | 4.860 | | 29.564 |

CHAINAGE = 2850.000

DATUM= 1329

| | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Proposed GL/RL | | | 1330.222 | 1330.731 | 1330.731 | 1330.731 | 1330.731 | 1330.731 | 1329.664 | |
| Chainage | | | 7.519 | 6.500 | 3.250 | 0.000 | 3.875 | 7.125 | 9.260 | |
| Existing G.L | 1329.291 | 1329.321 | | | | 1330.347 | 1329.714 | 1329.794 | 1329.617 | 1330.225 |
| Chainage | 30.000 | 24.808 | | | | 3.295 | 1.001 | 4.411 | 11.012 | 30.000 |

CHAINAGE = 2925.000

DATUM= 1333

| | | | | | | | | | | |
|----------------|----------|--|----------|----------|----------|----------|----------|----------|----------|----------|
| Proposed GL/RL | | | 1333.216 | 1333.189 | 1333.489 | 1333.489 | 1333.489 | 1333.489 | 1333.489 | |
| Chainage | | | 7.617 | 7.550 | 6.500 | 3.250 | 0.000 | 3.875 | 7.125 | 8.683 |
| Existing G.L | 1333.410 | | | | | 1333.485 | 1333.485 | 1333.485 | 1333.485 | 1333.456 |
| Chainage | 30.000 | | | | | 9.536 | 7.841 | 13.099 | 18.963 | 30.000 |

CHAINAGE = 2825.000

DATUM= 1330

| | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Proposed GL/RL | | | 1330.224 | 1331.189 | 1331.189 | 1331.189 | 1331.189 | 1331.189 | 1330.475 | |
| Chainage | | | 8.430 | 6.500 | 3.250 | 0.000 | 3.875 | 7.125 | 8.553 | |
| Existing G.L | 1330.358 | 1330.209 | | | | 1330.344 | 1330.417 | 1330.417 | 1330.483 | 1330.785 |
| Chainage | 30.000 | 9.294 | | | | 1.608 | 4.478 | 9.114 | | 30.000 |

CHAINAGE = 2900.000

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

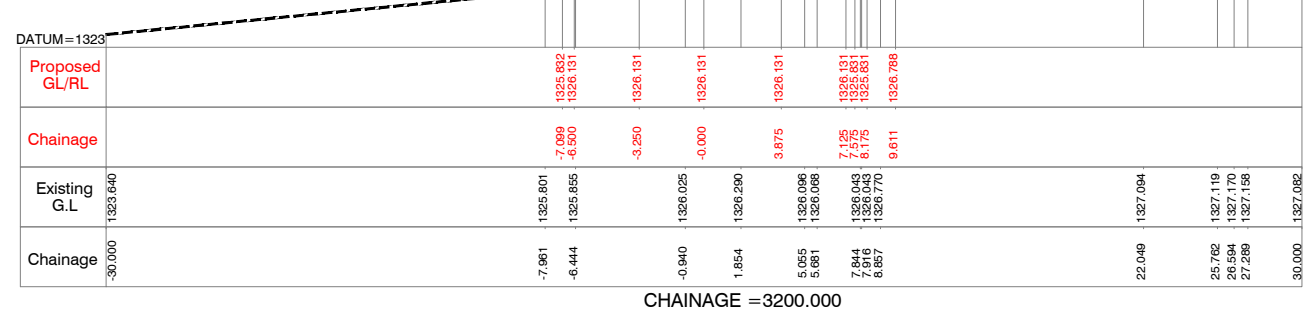
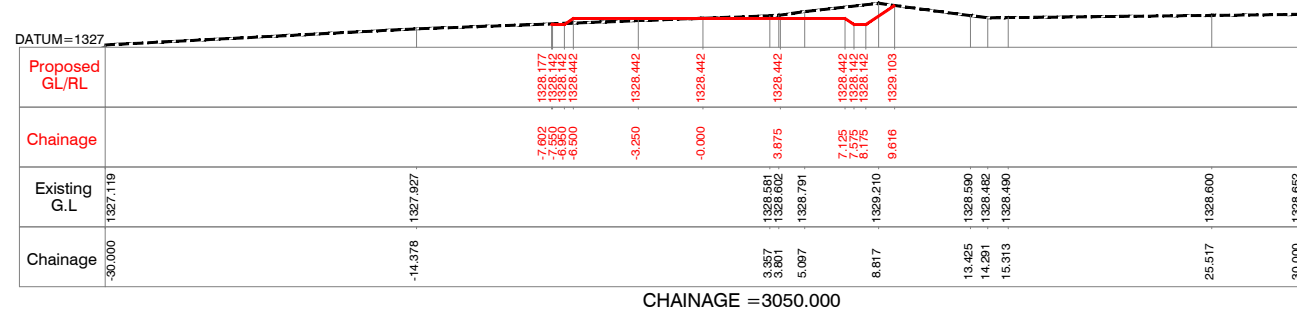
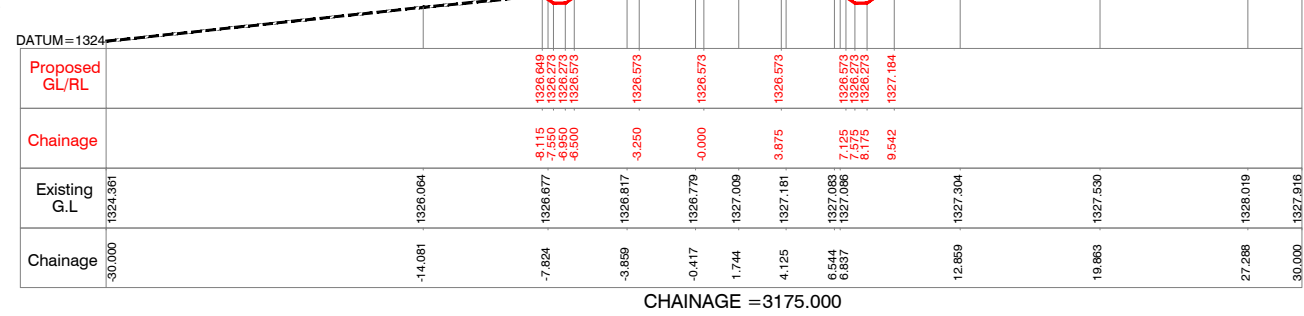
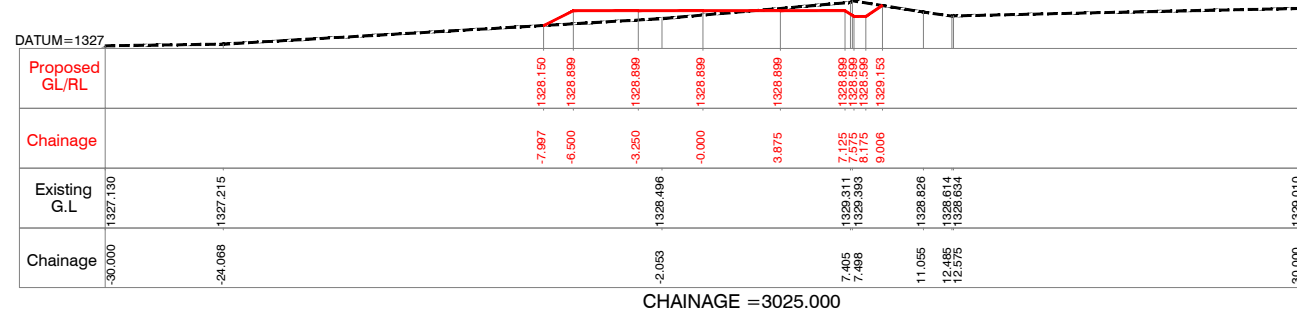
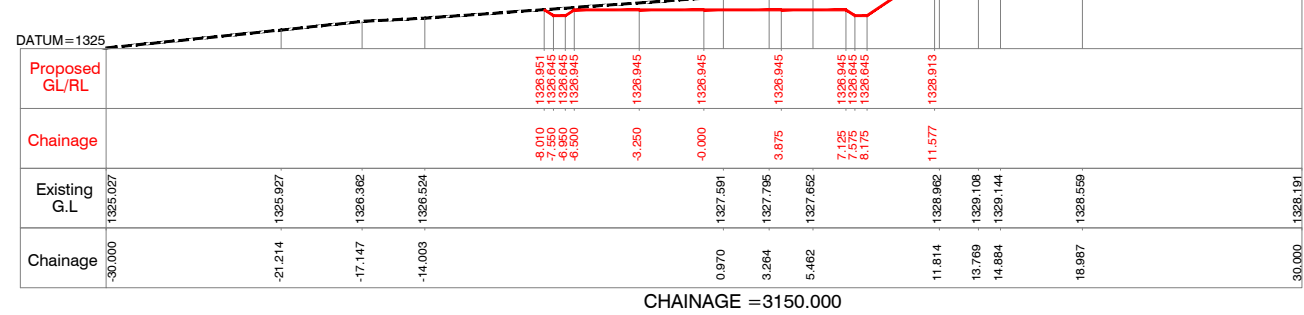
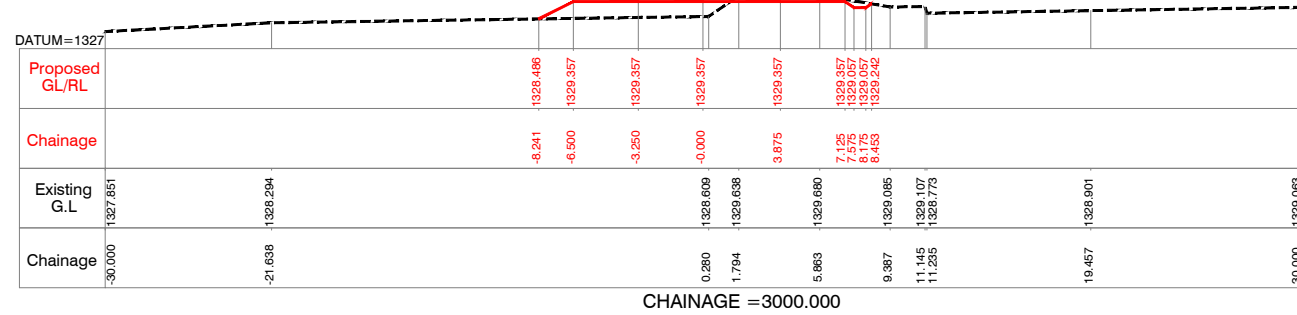
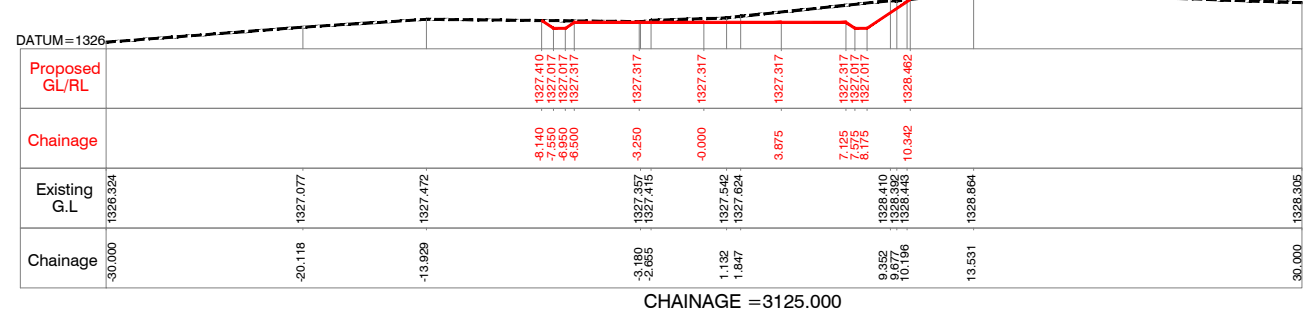
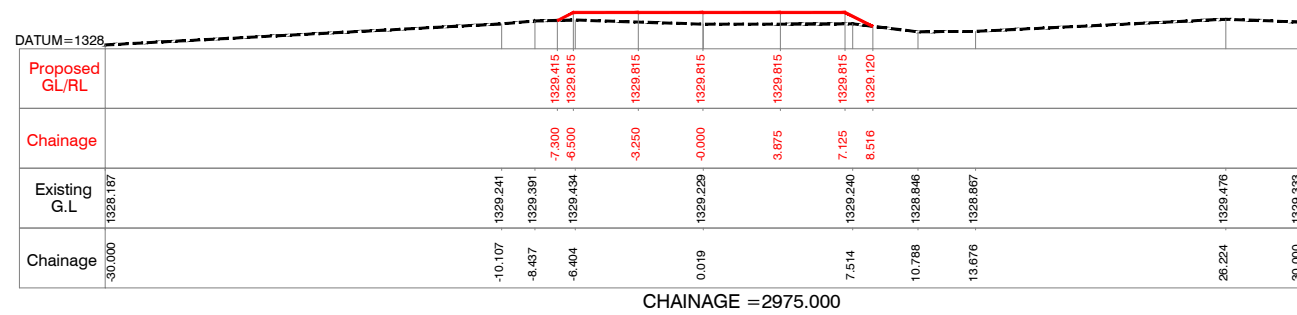
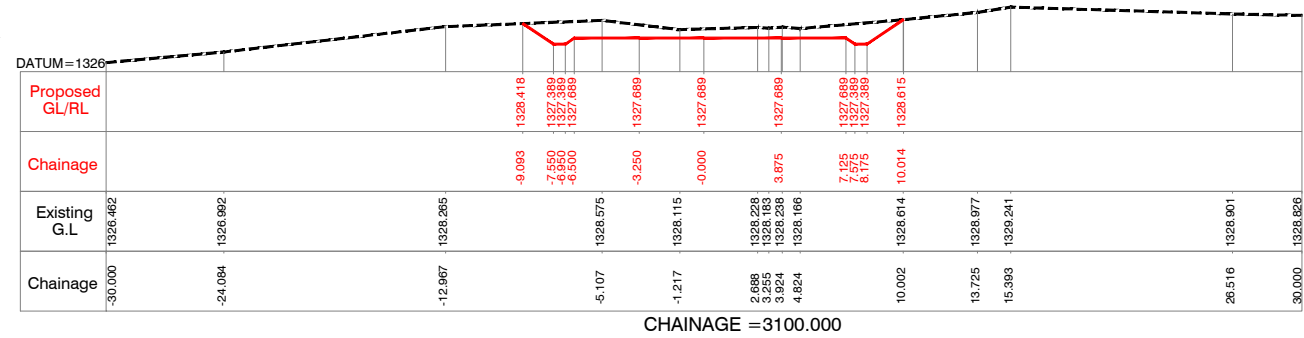
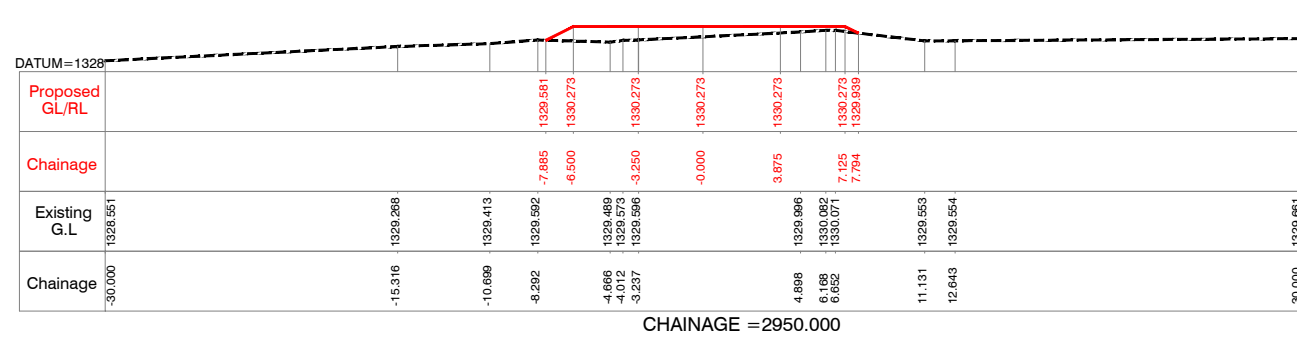
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
KM @ 2.825 to KM @ 3.075

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revaala Presidency, Srirangar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

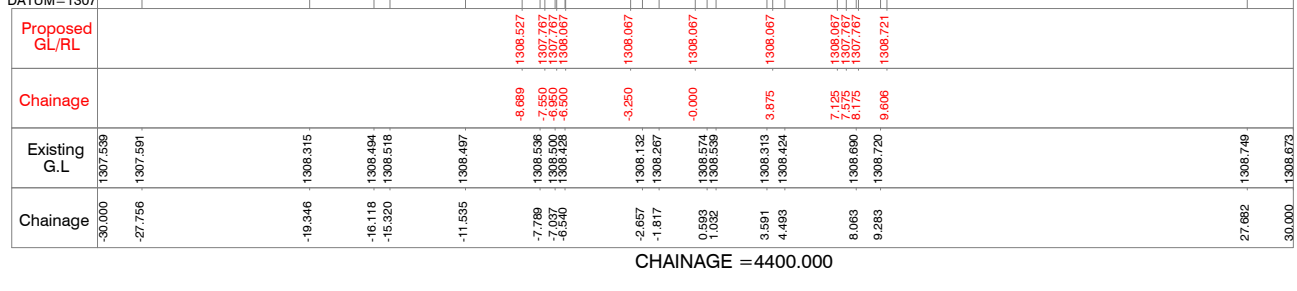
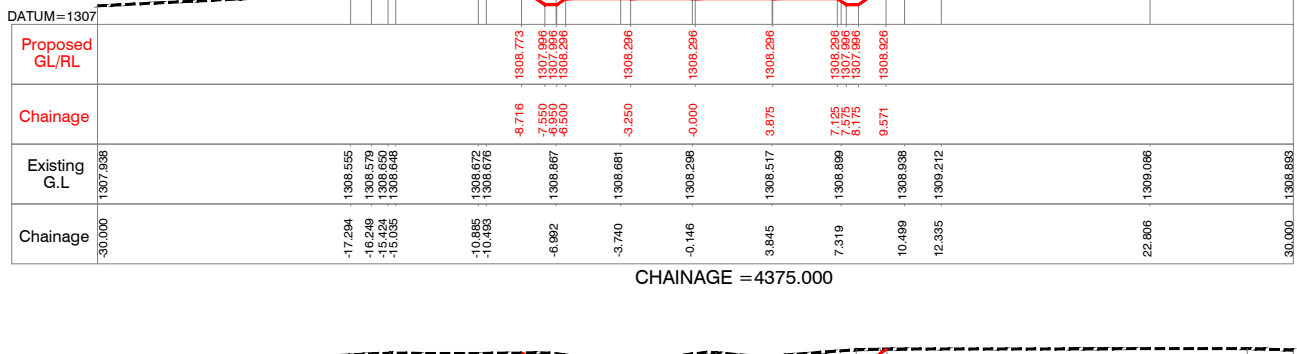
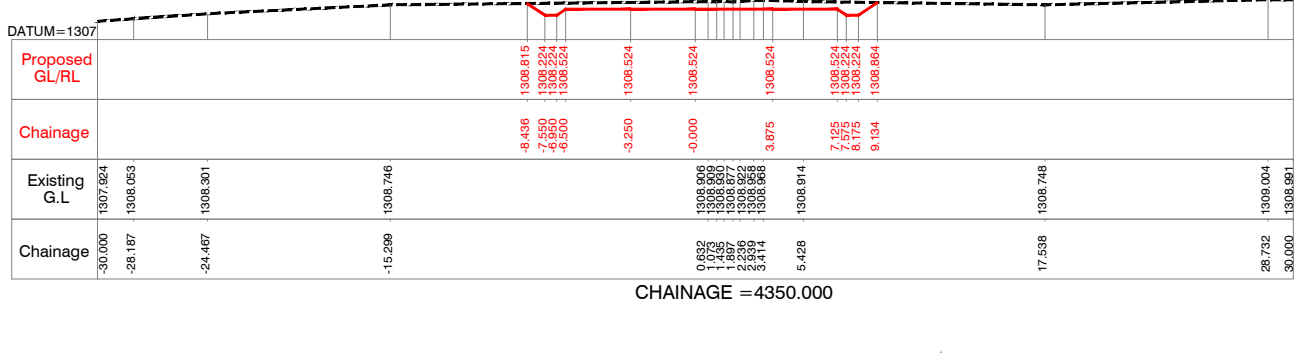
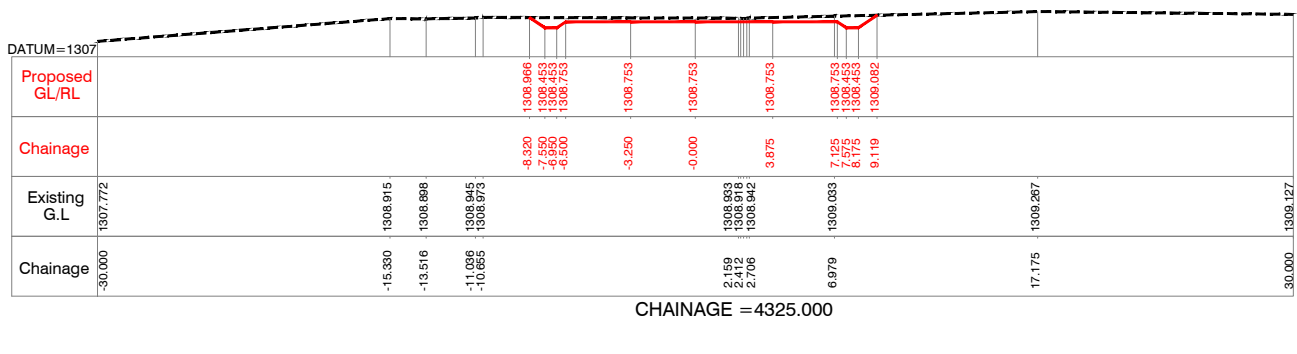
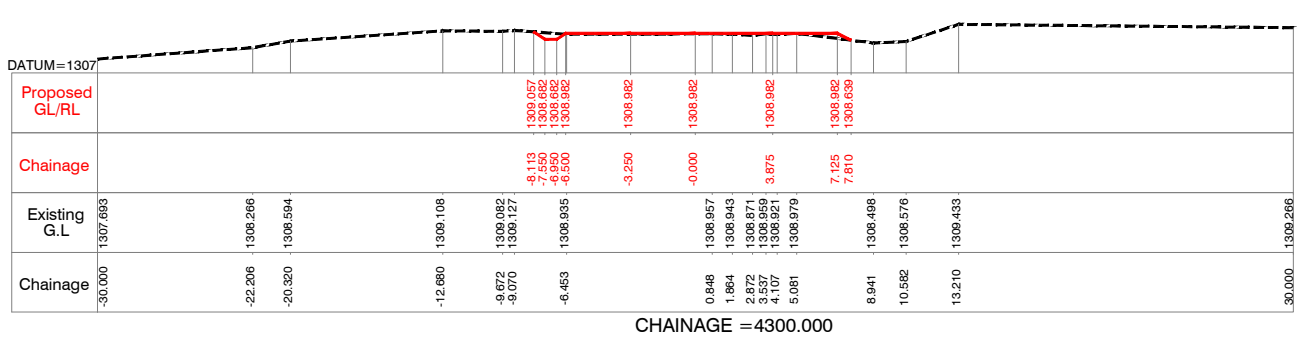
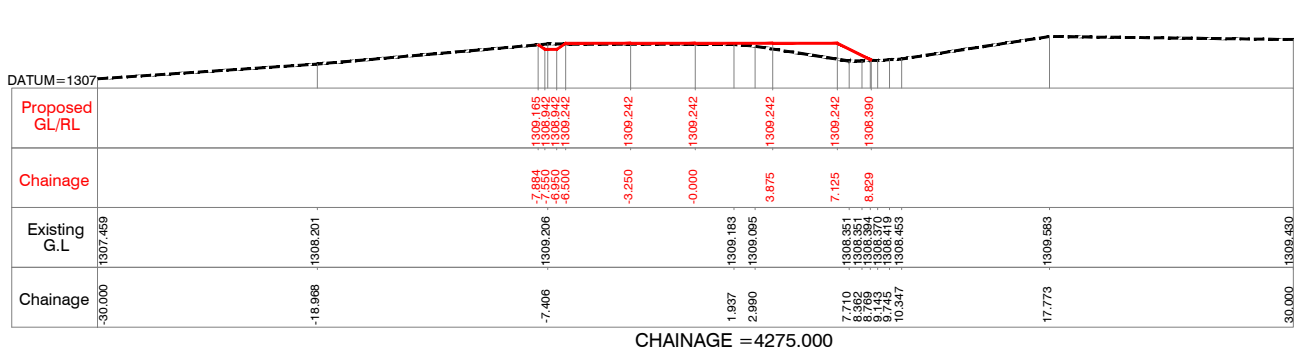
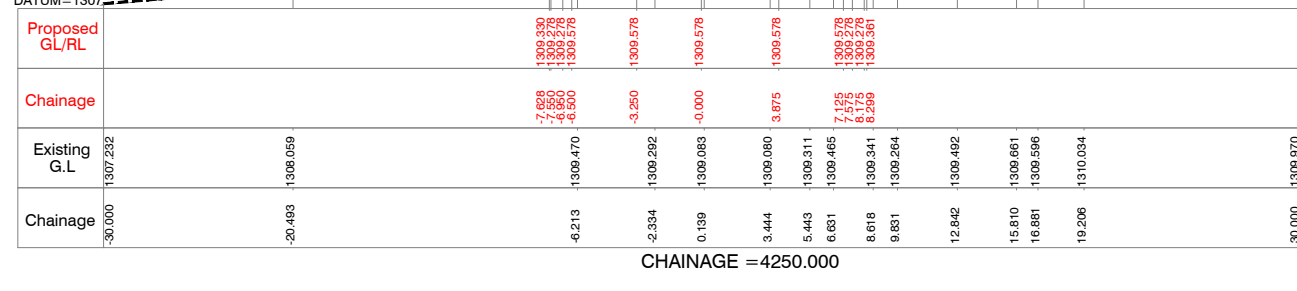
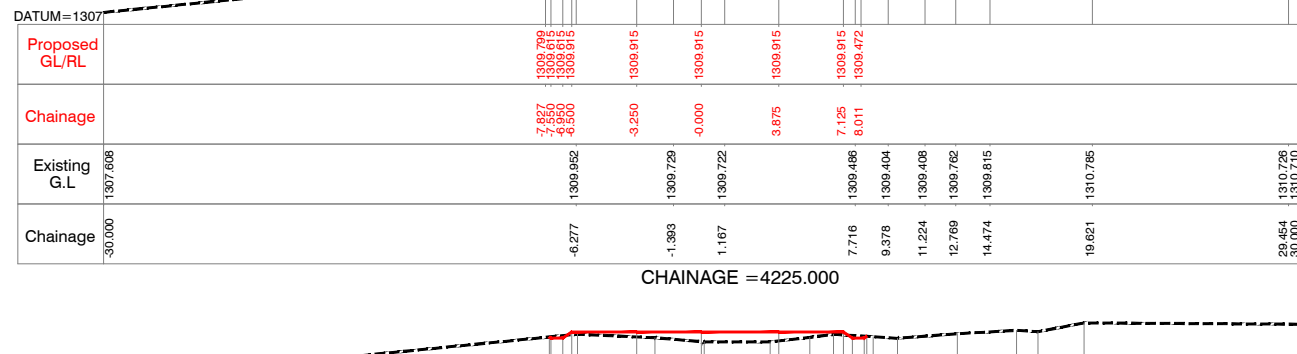
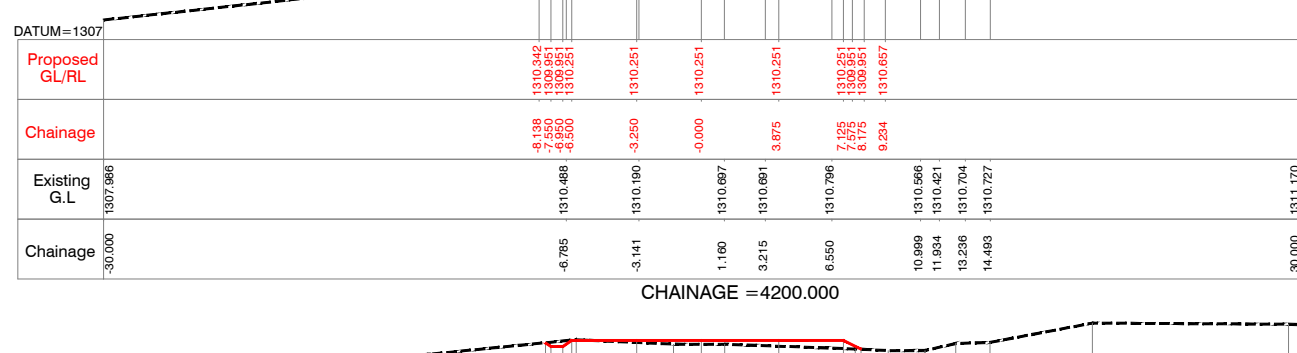
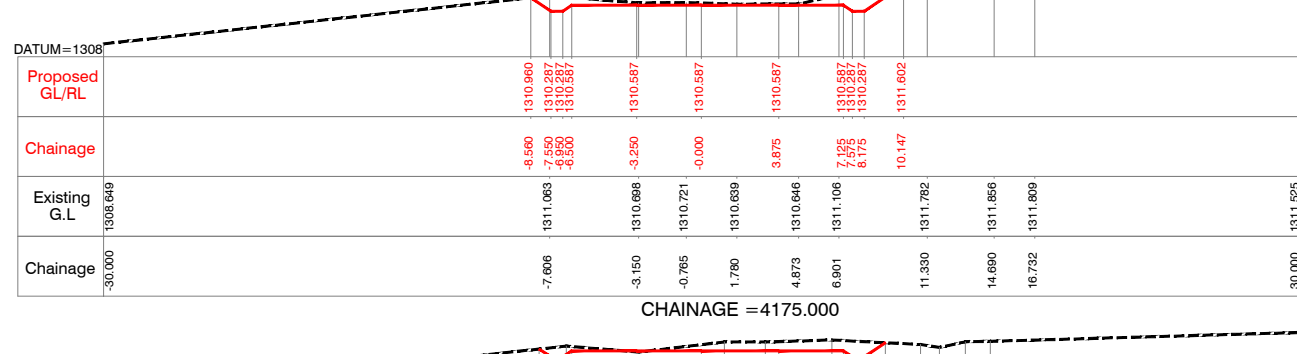
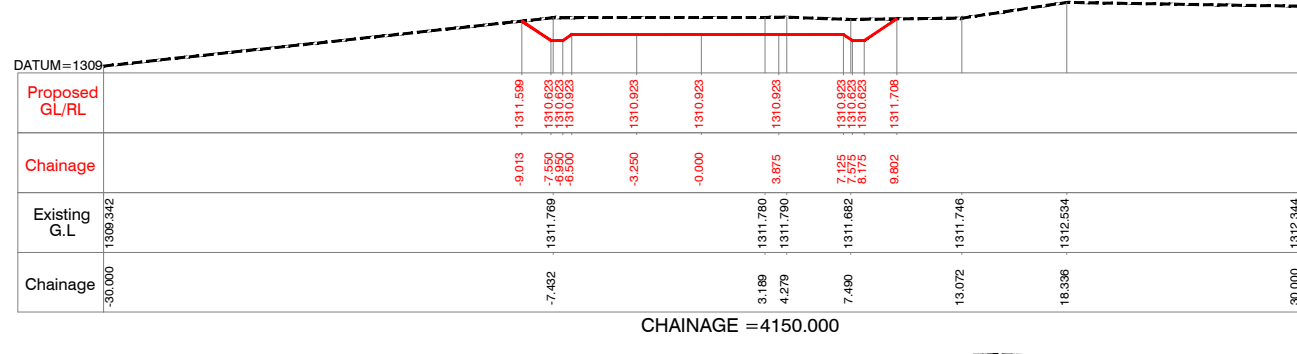
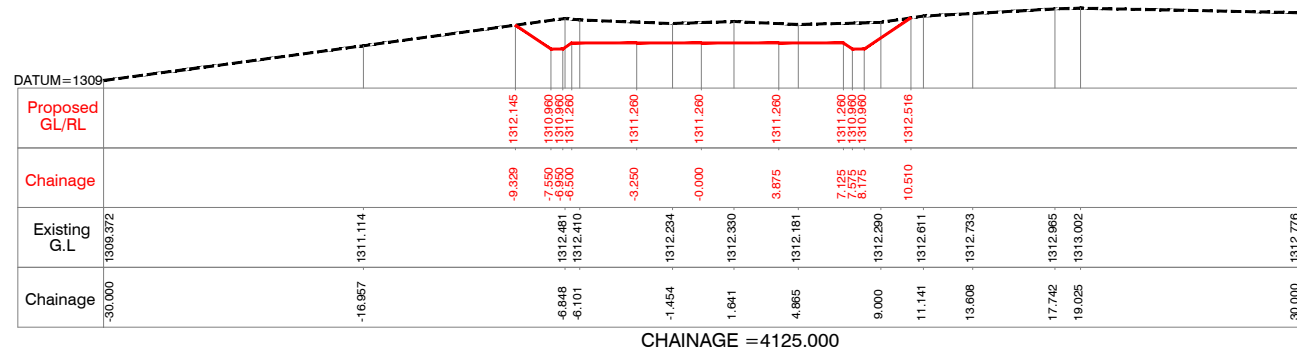


Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : LEFT SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
KM @ 2.950 to KM @ 3.200

Consultants : aarvee associates
architects engineers & consultants pvt.ltd.
Reva's Presidency, Sarvagar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-2373633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



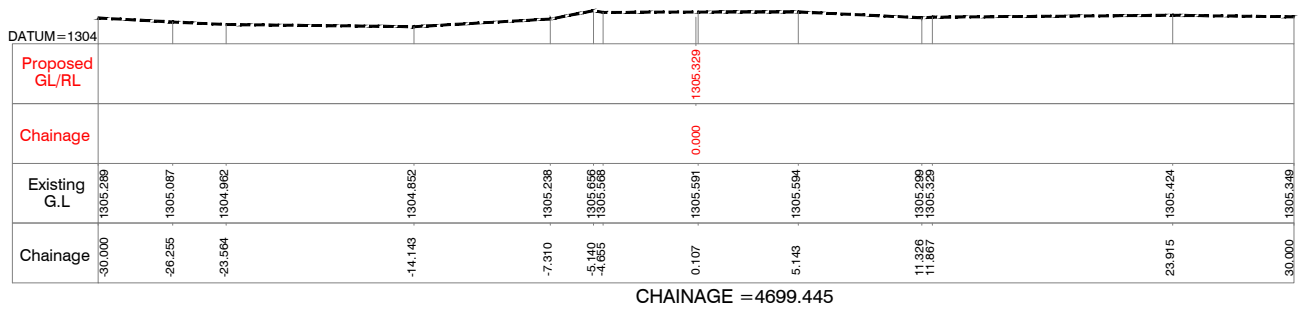
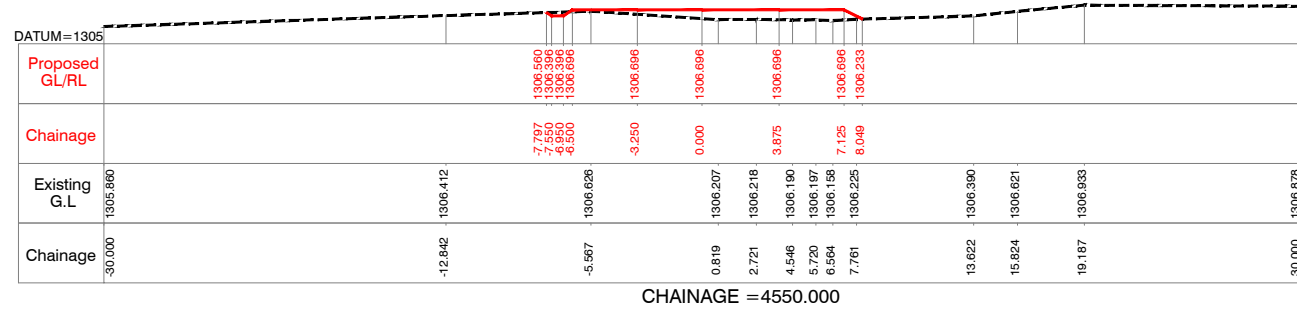
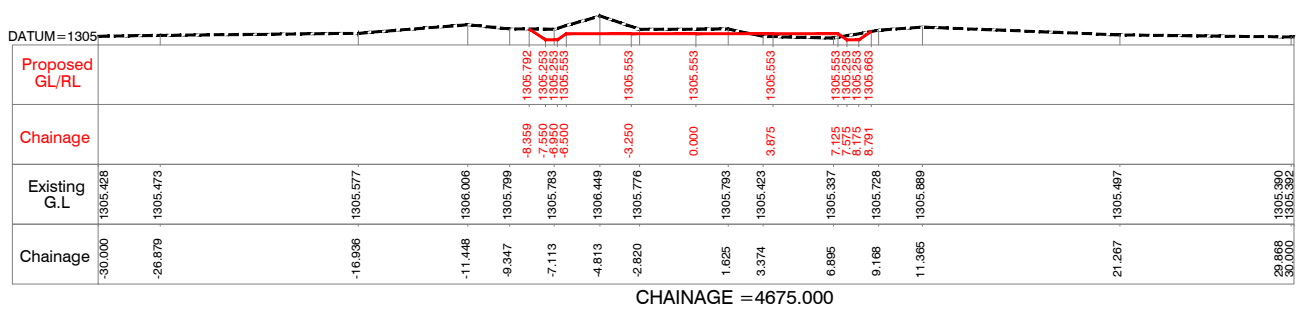
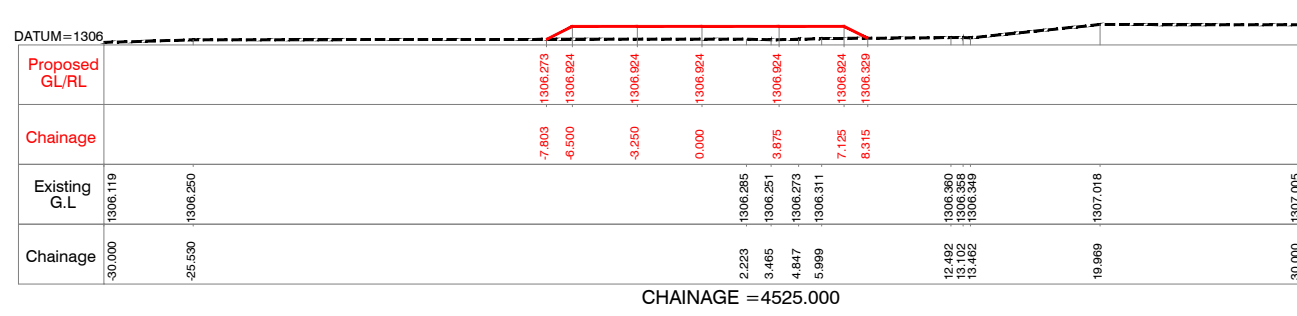
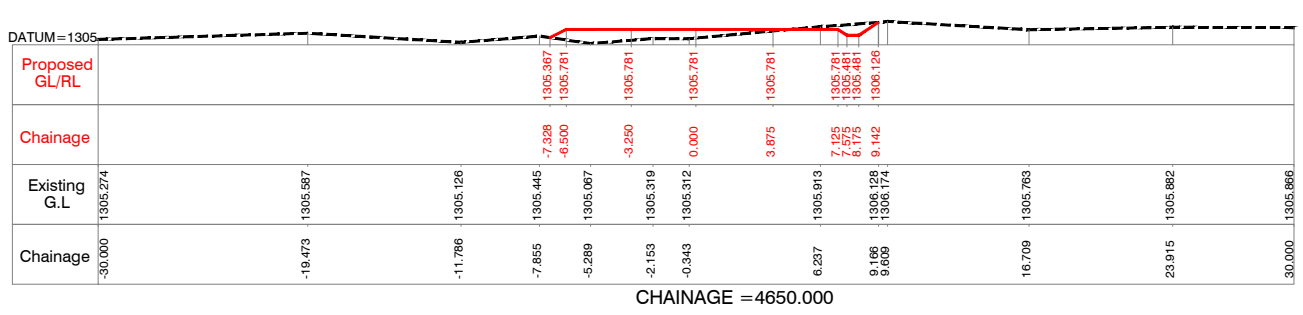
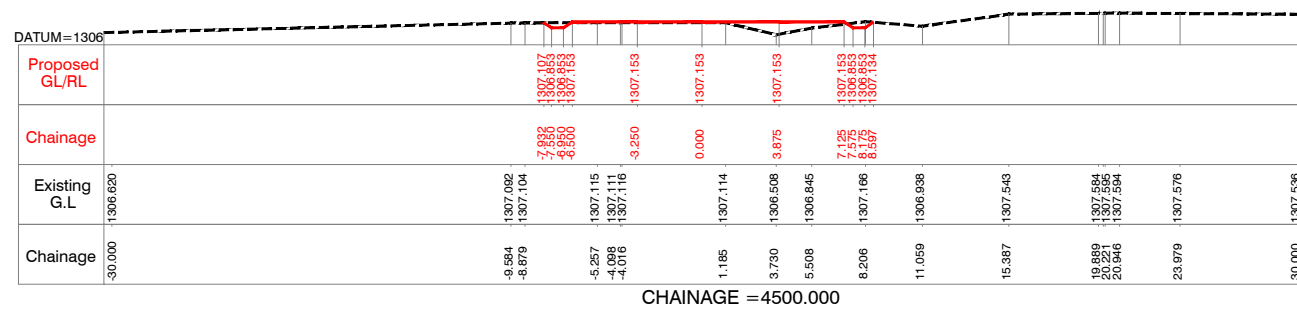
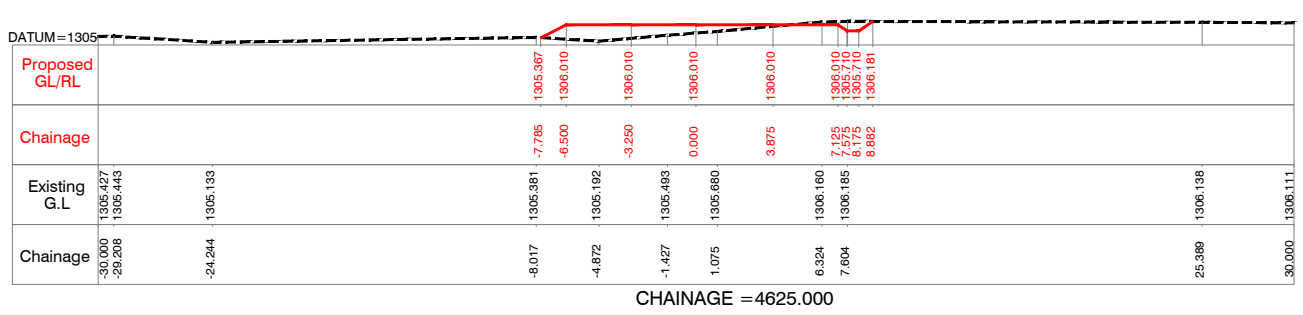
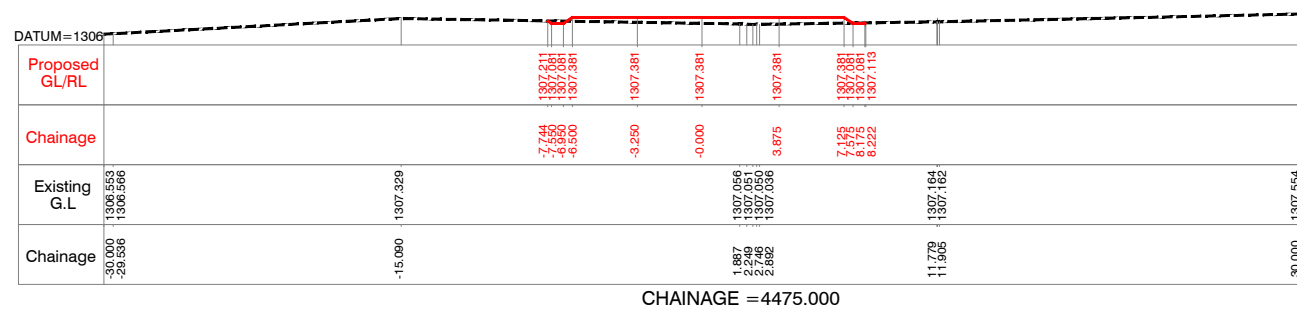
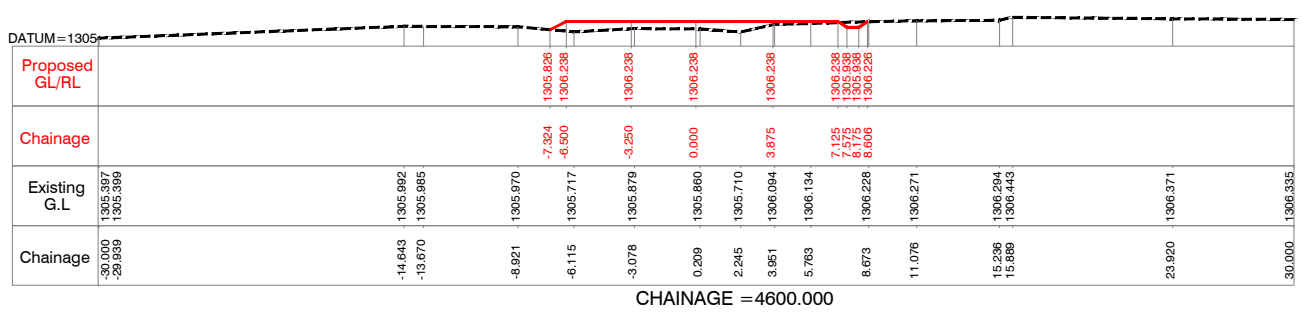
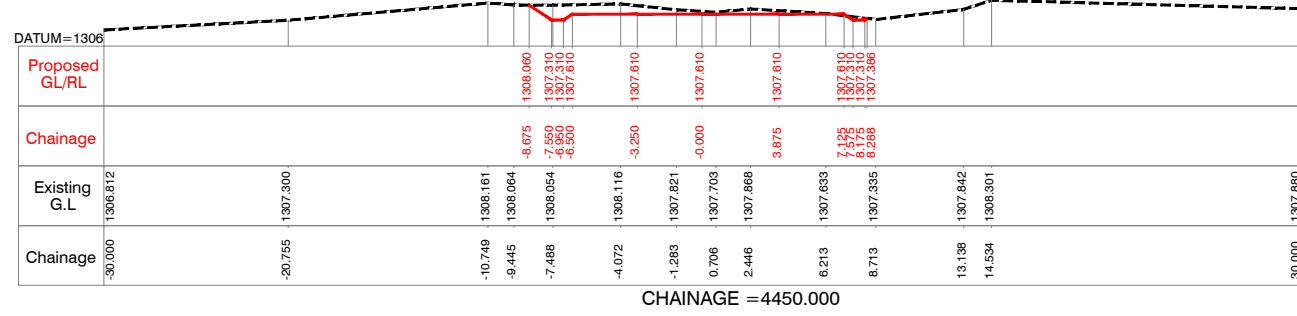
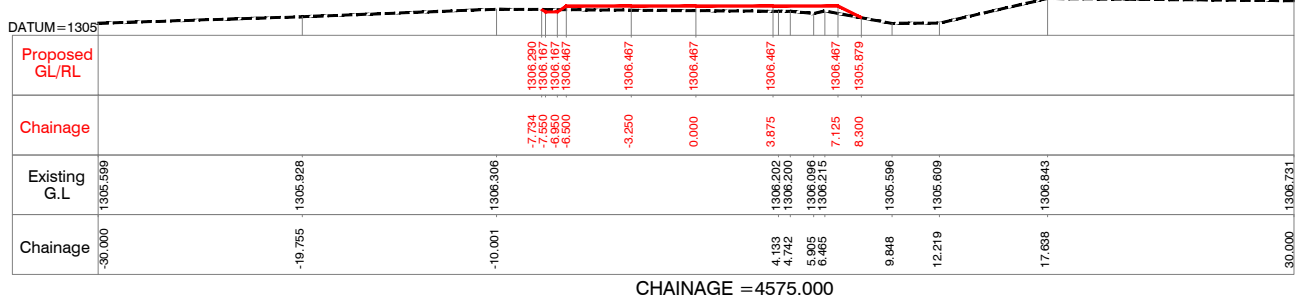
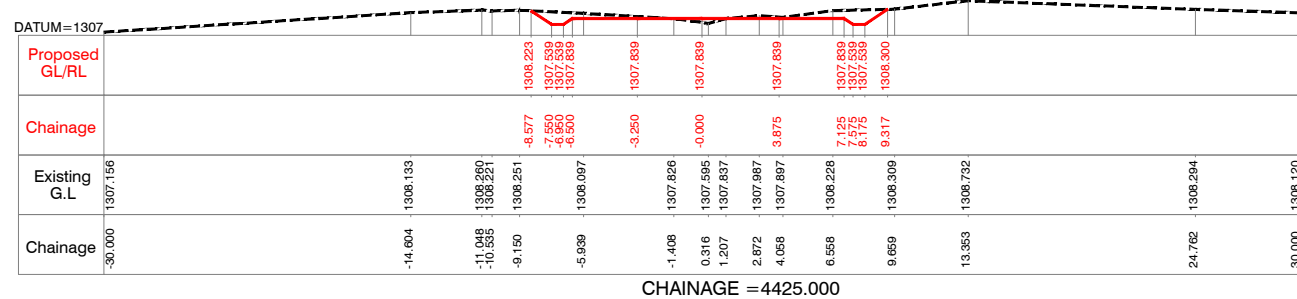
NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 4.125 to KM @ 4.400

Consultants :
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Seerang Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737833; Fax: +91 -40-23738277
 e-mail: irrigation@aarvee.net; web: www.aarvee.net



NOTES:-

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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

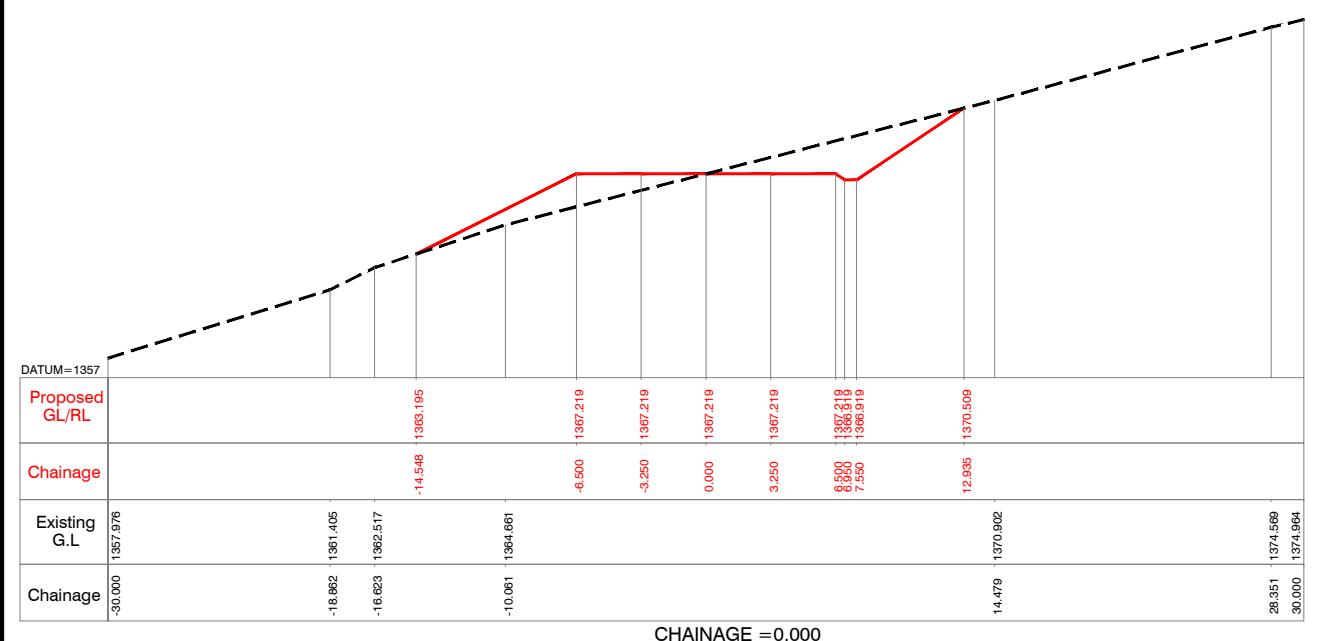
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **LEFT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 KM @ 4.425 to KM @ 4.699

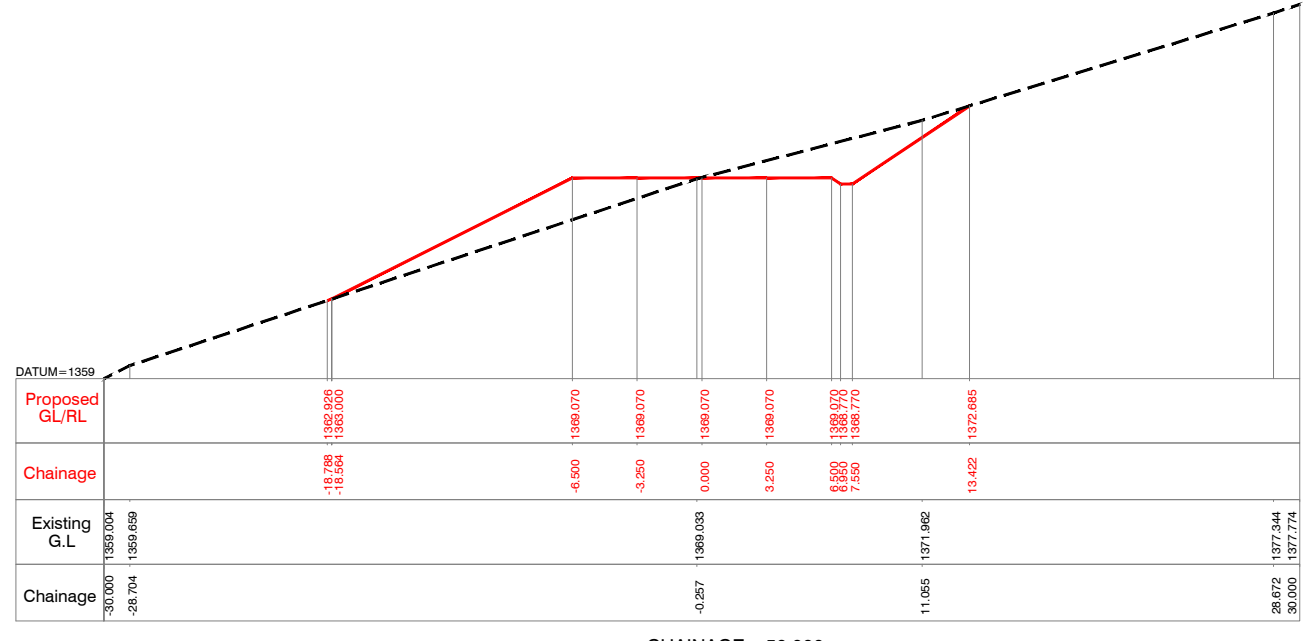
Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
Revelia Presidency, Sarvagana Colony Main Rd., Hyderabad-62, India
 Tel: +91 -40-23737633; Fax: +91 -40-23736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

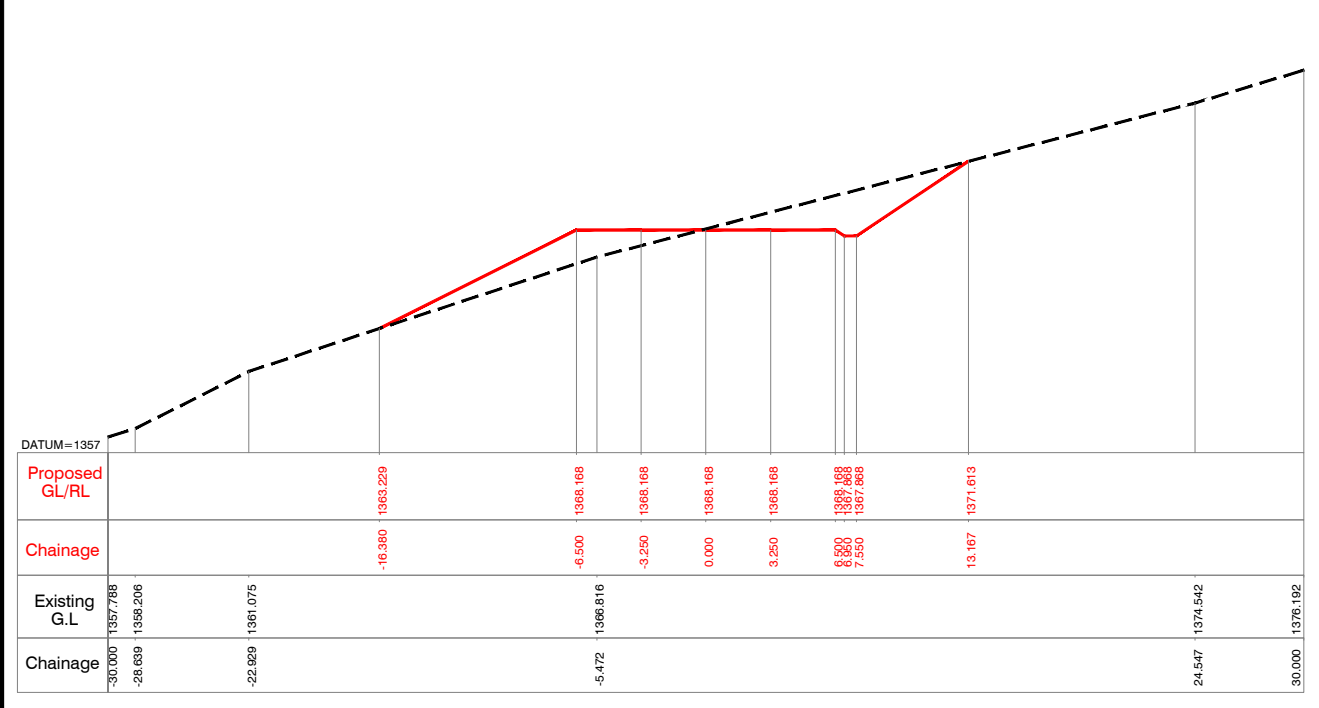
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



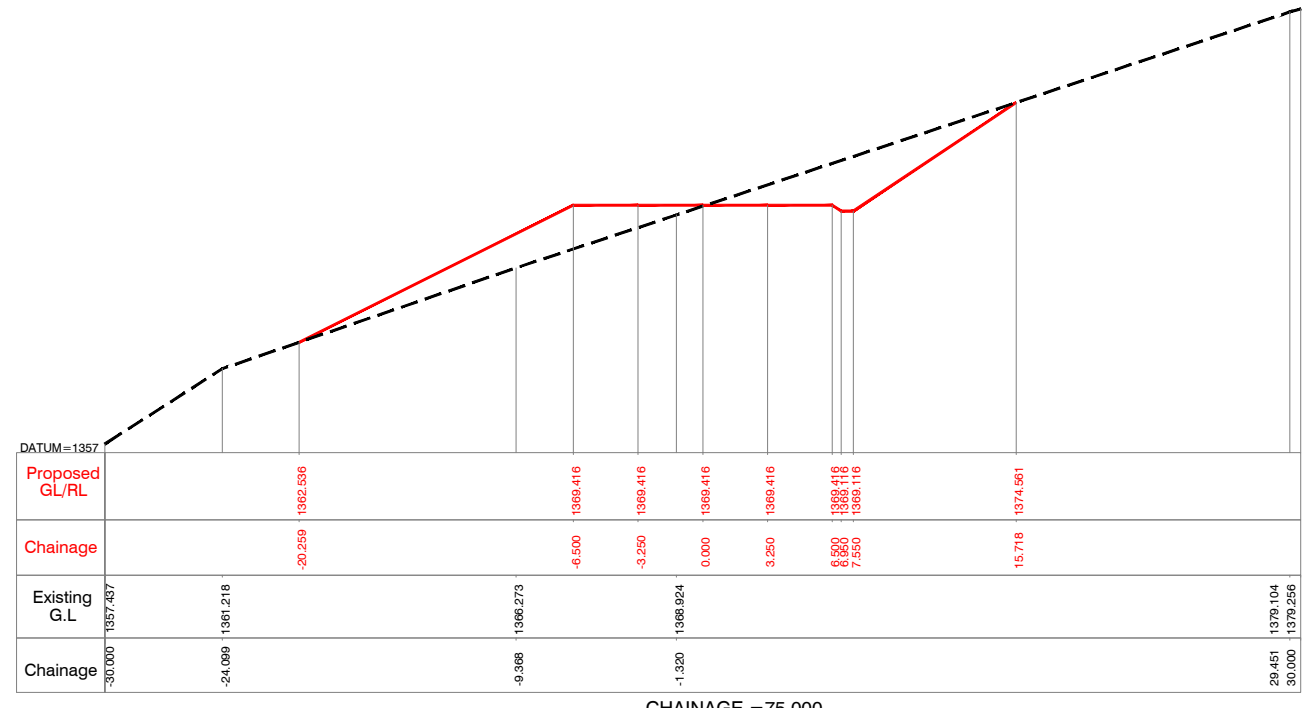
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CHAINAGE = 50.000



CHAINAGE = 25.000



CHAINAGE = 75.000

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

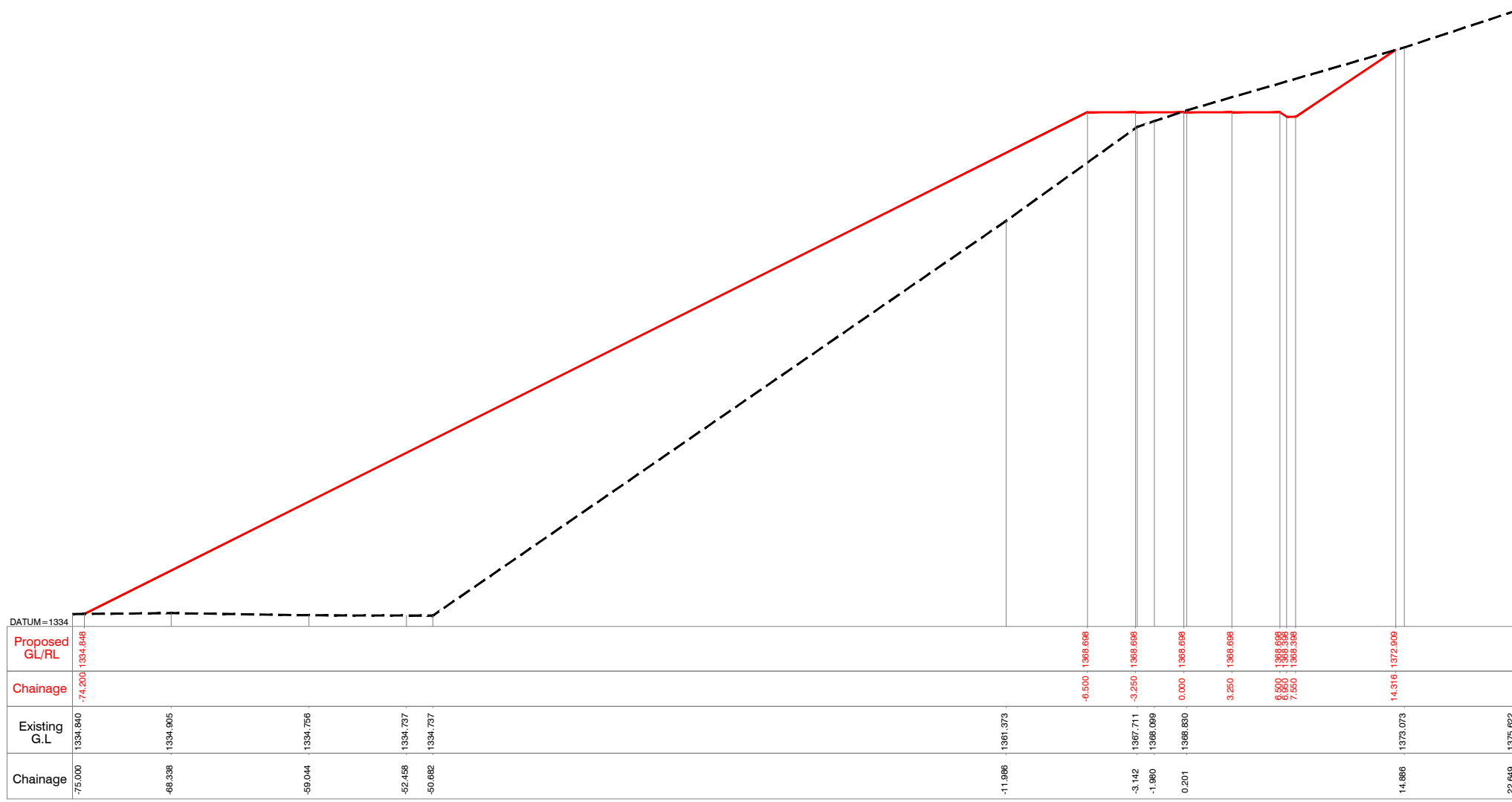
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 0.000 to @km 0.075

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Presidency, Sangare Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



CHAINAGE = 100.000

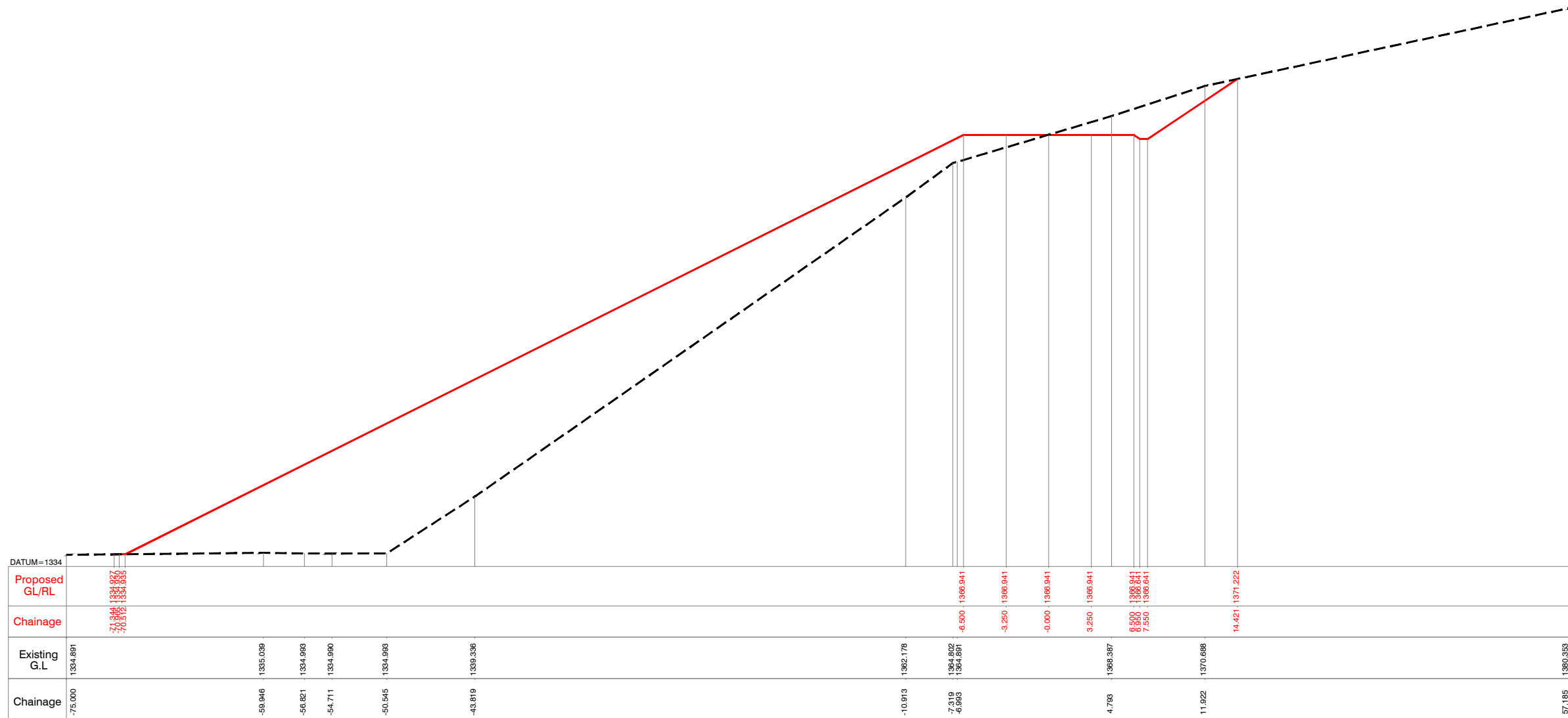
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

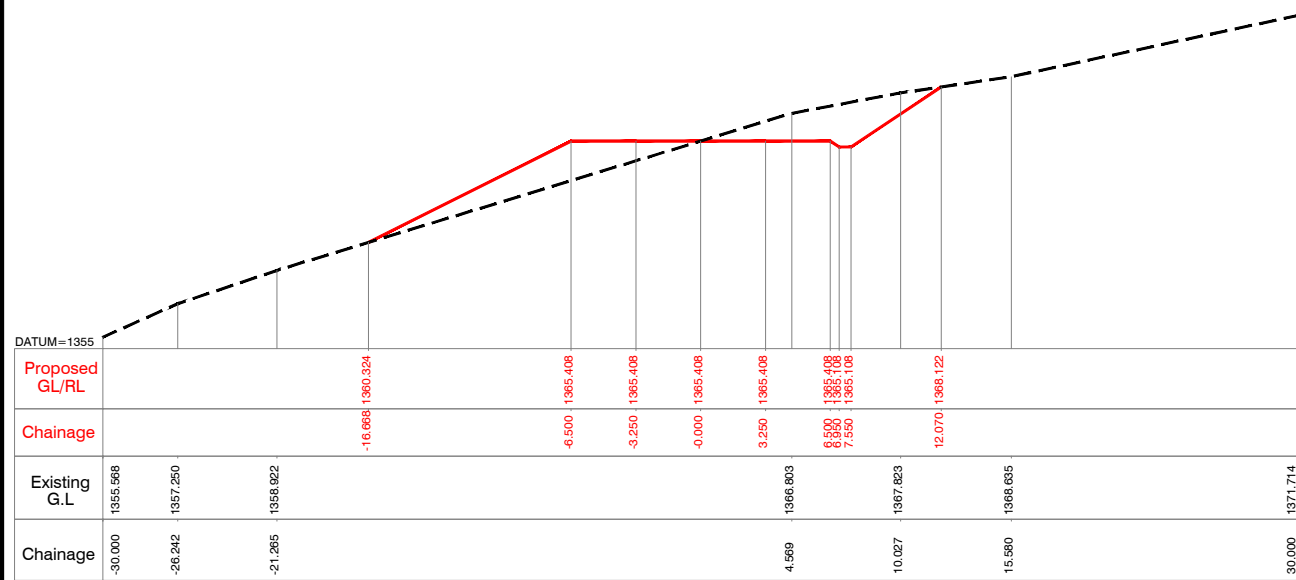
Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 0.100

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Rivula Residency, Singareddy Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

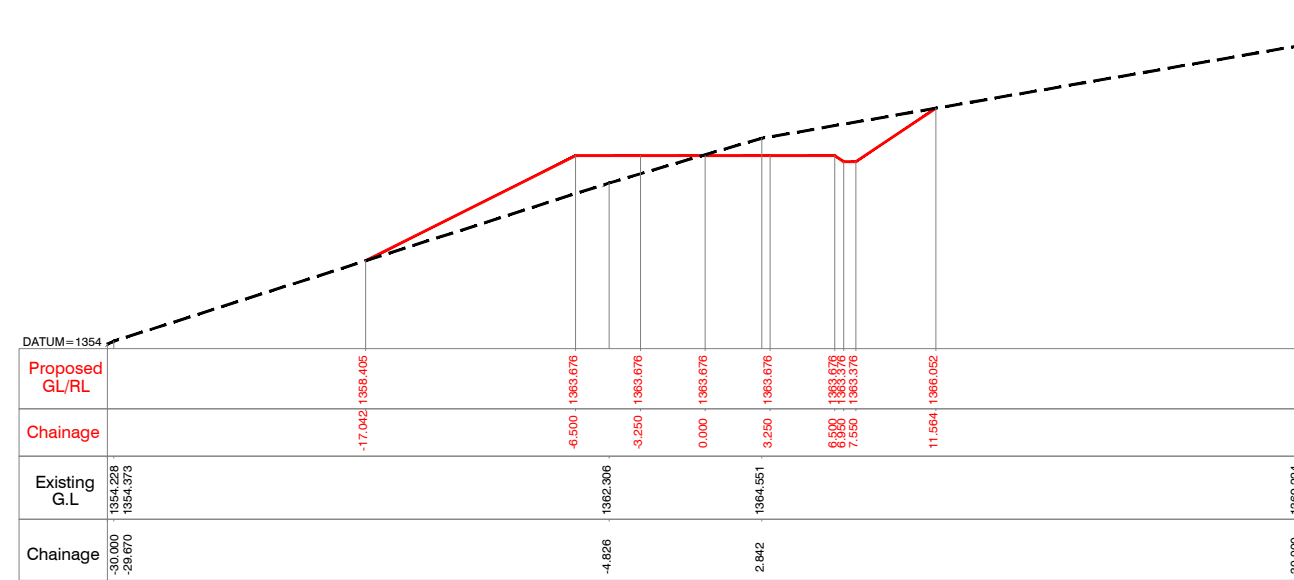
NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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CHAINAGE = 125.000



CHAINAGE = 150.000



CHAINAGE = 175.000

Client : **REPUBLIC OF UGANDA**
 MINISTRY OF WATER AND ENVIRONMENT

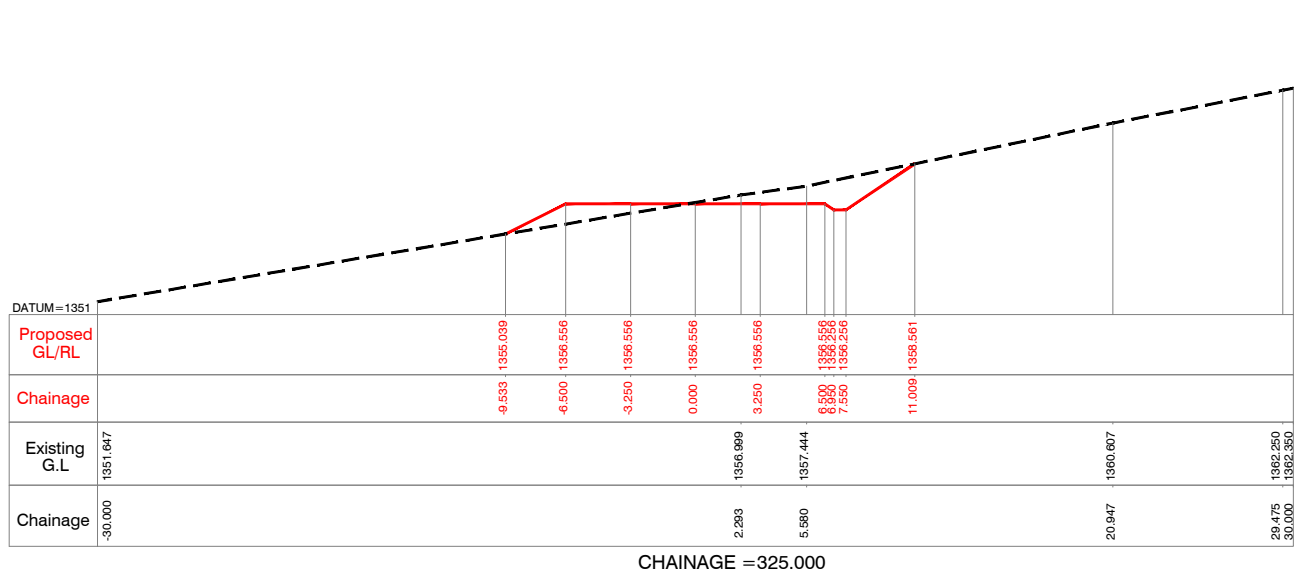
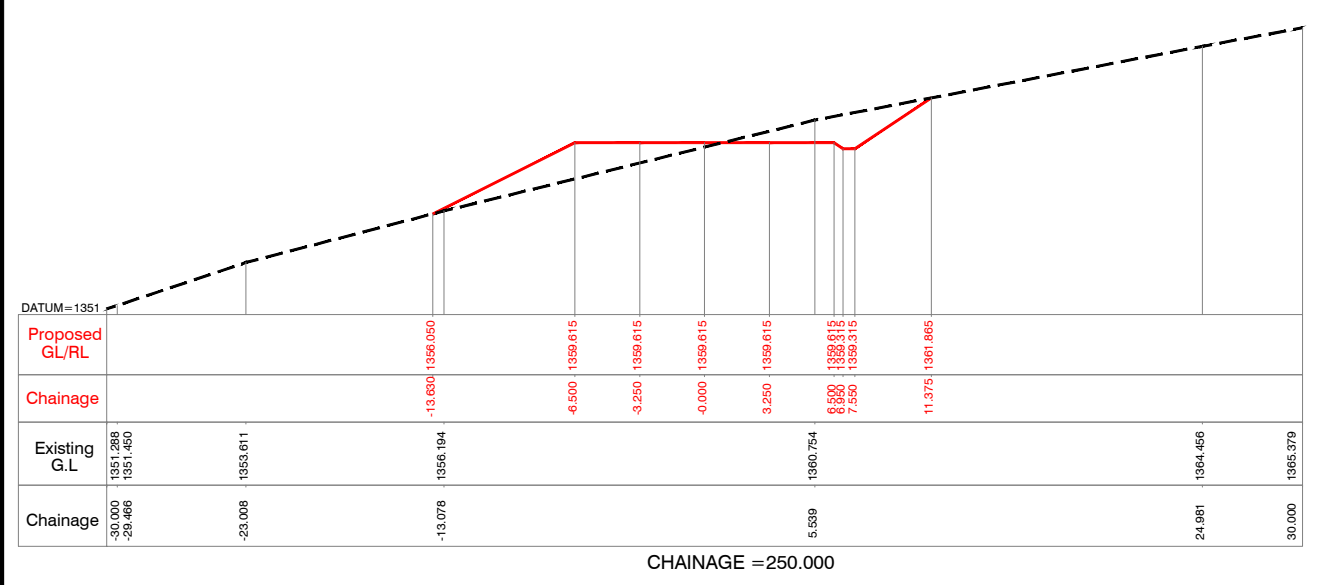
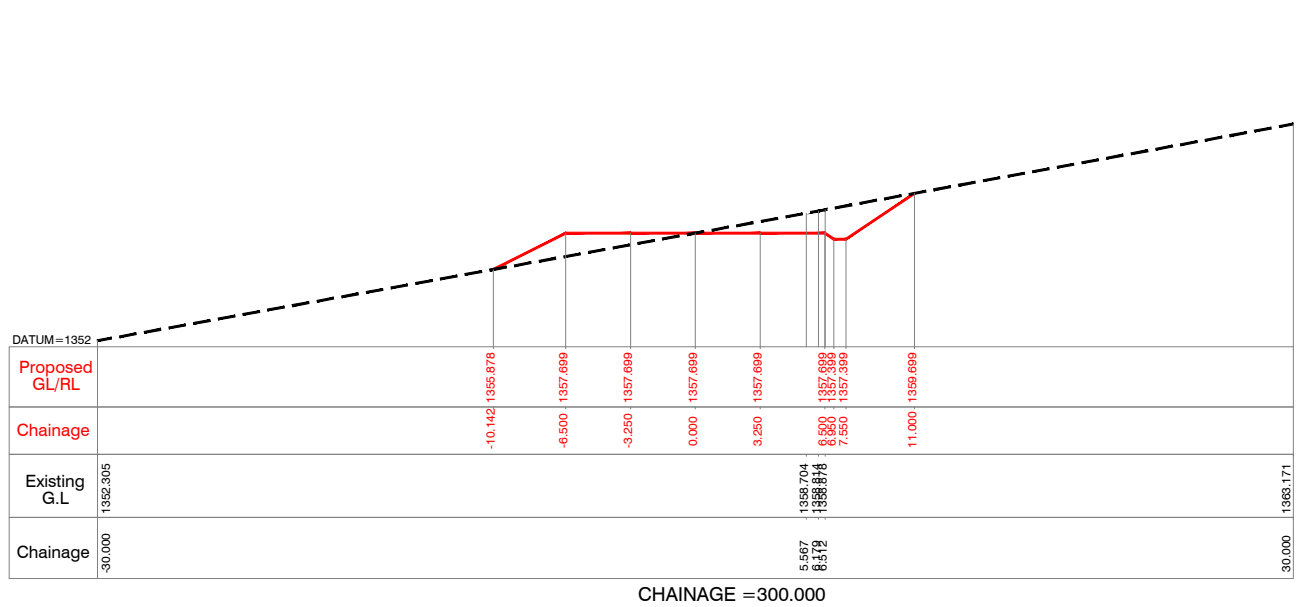
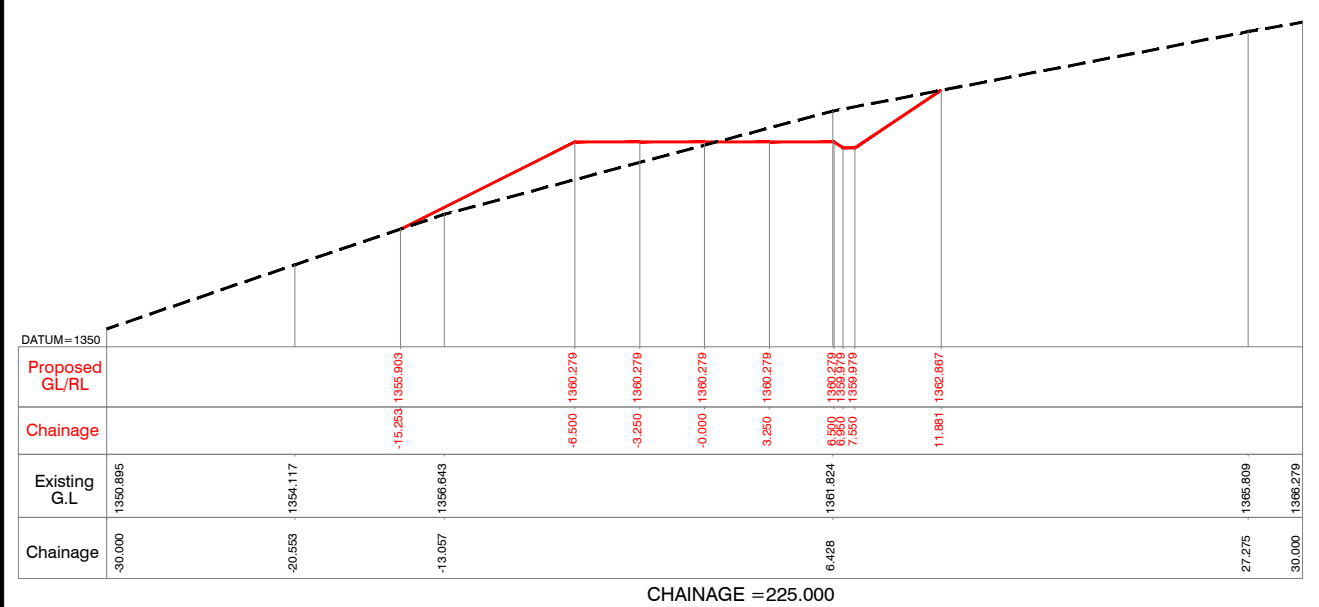
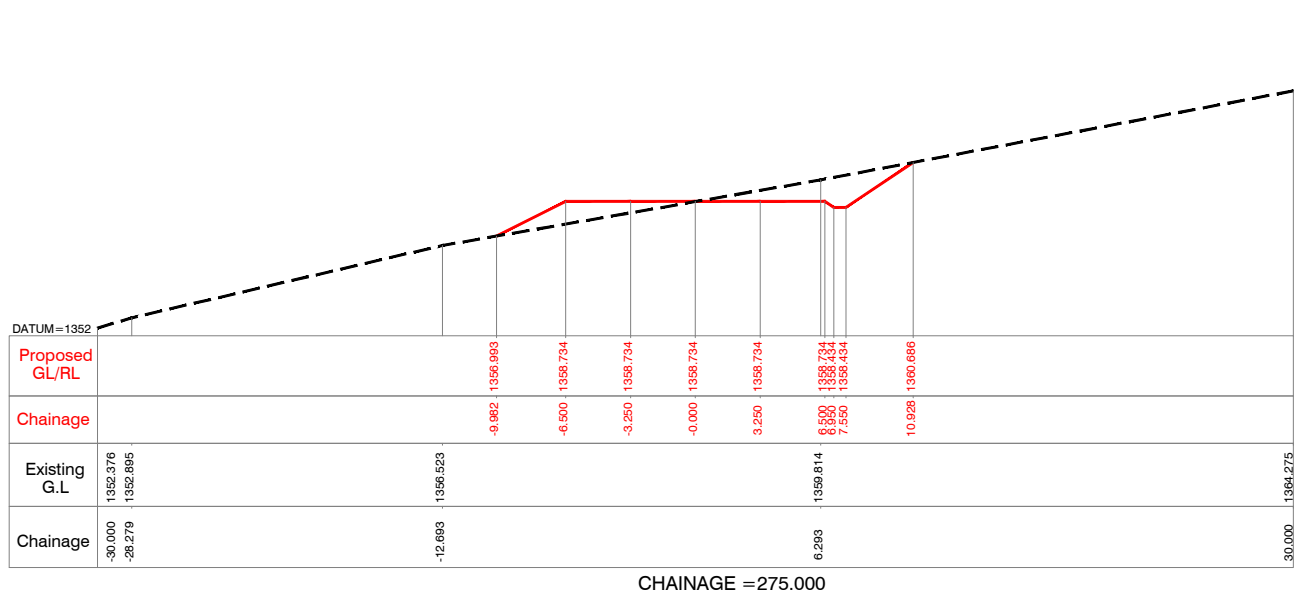
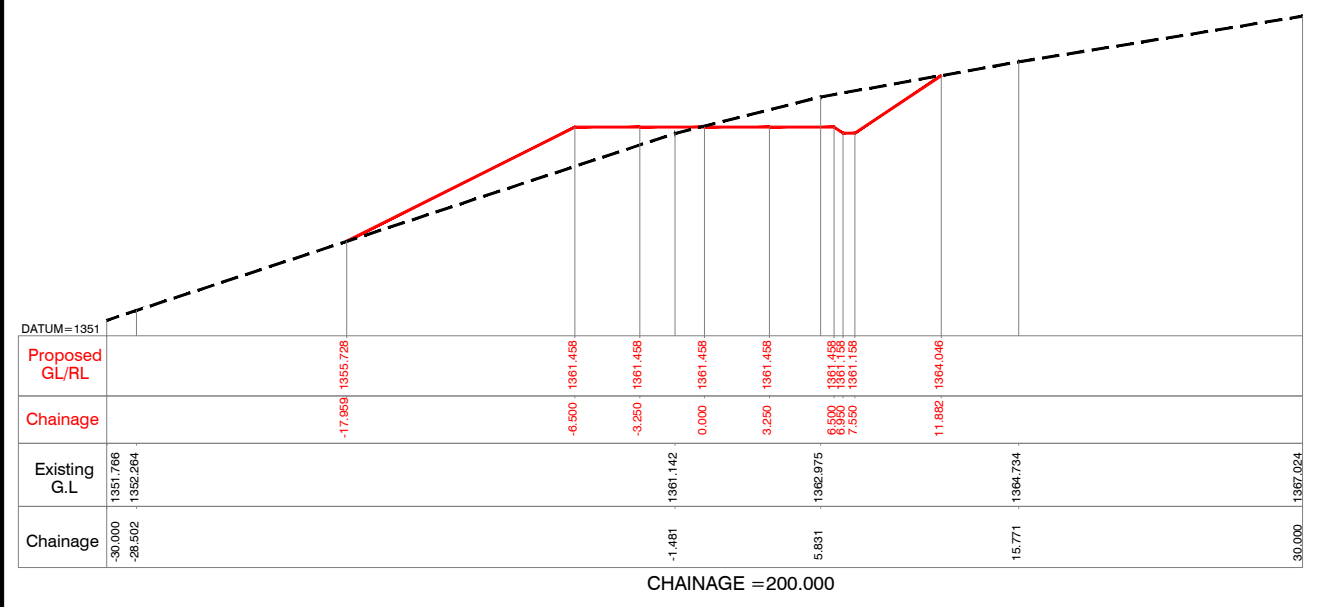
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 0.125 to @km 0.175

Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Revula Residential, Sarvagar Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: Irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

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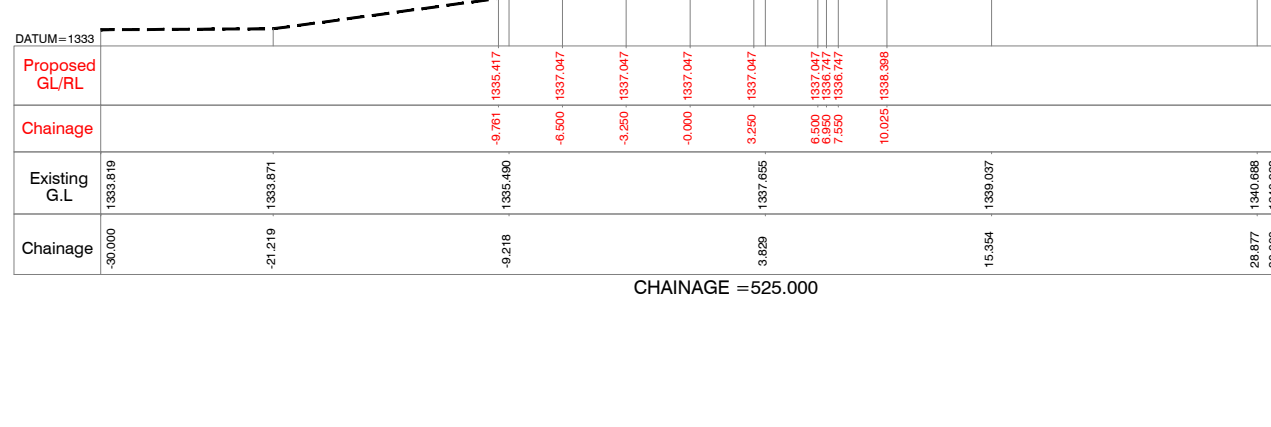
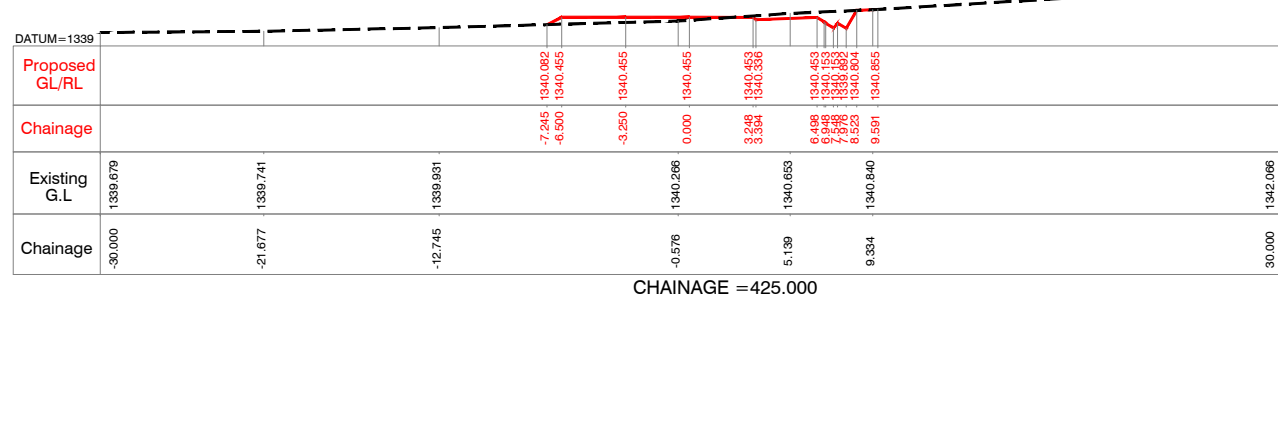
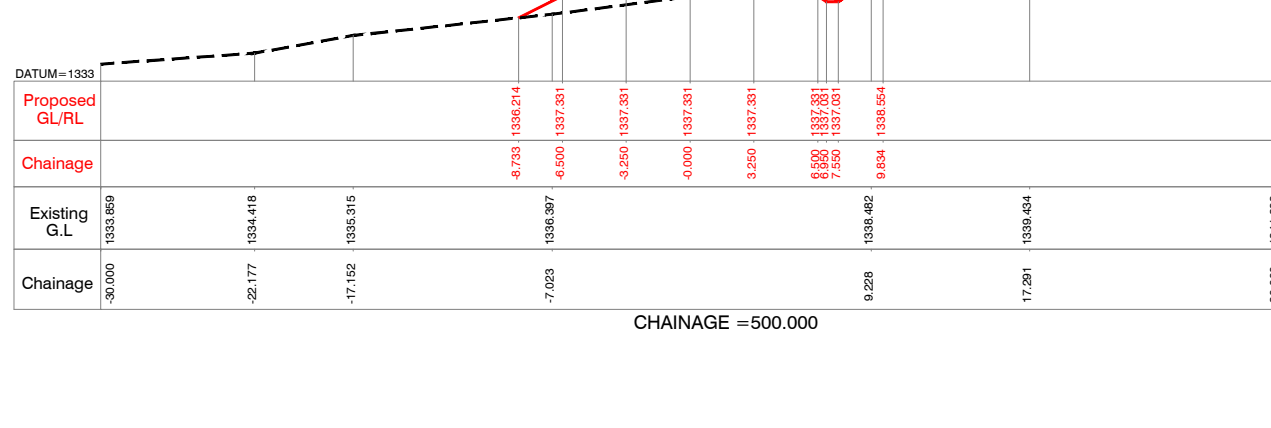
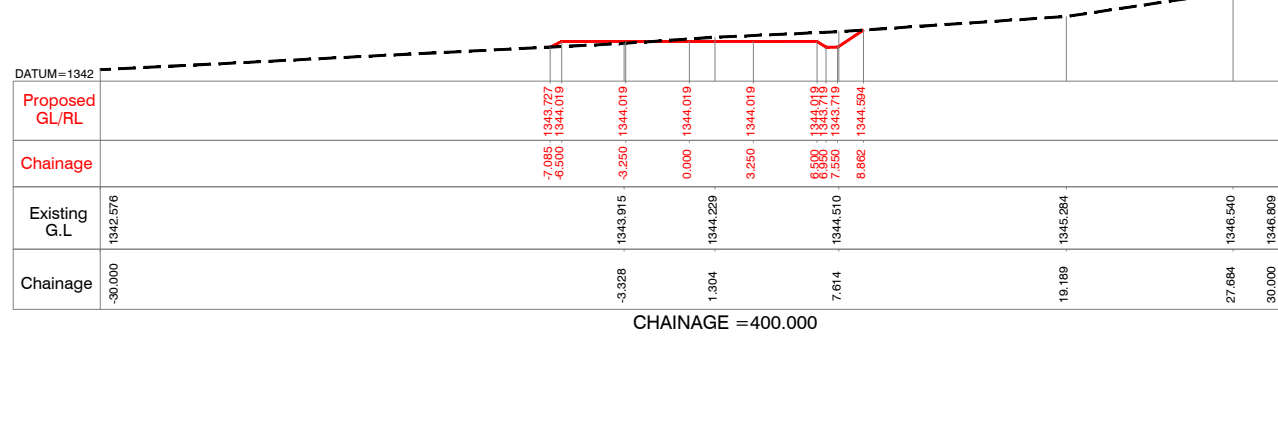
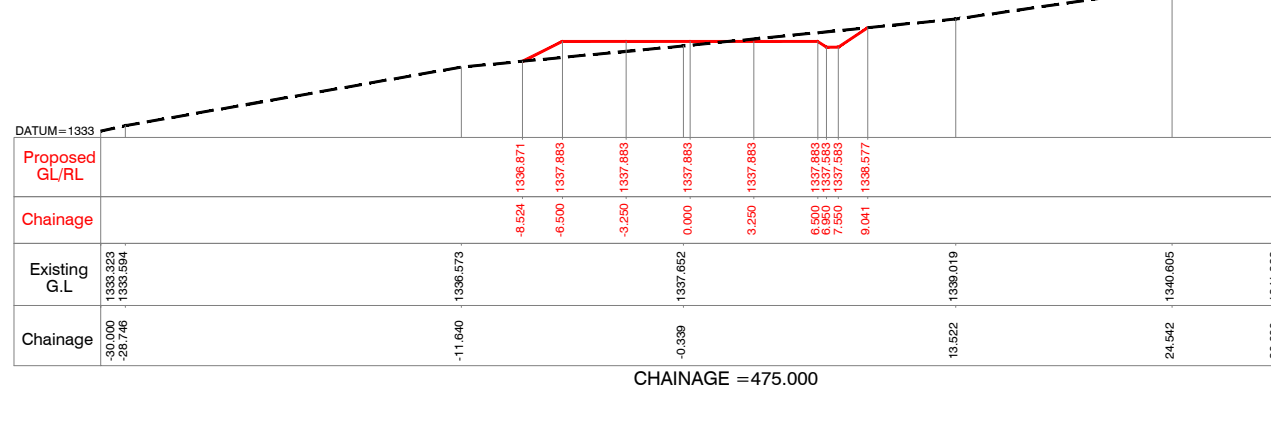
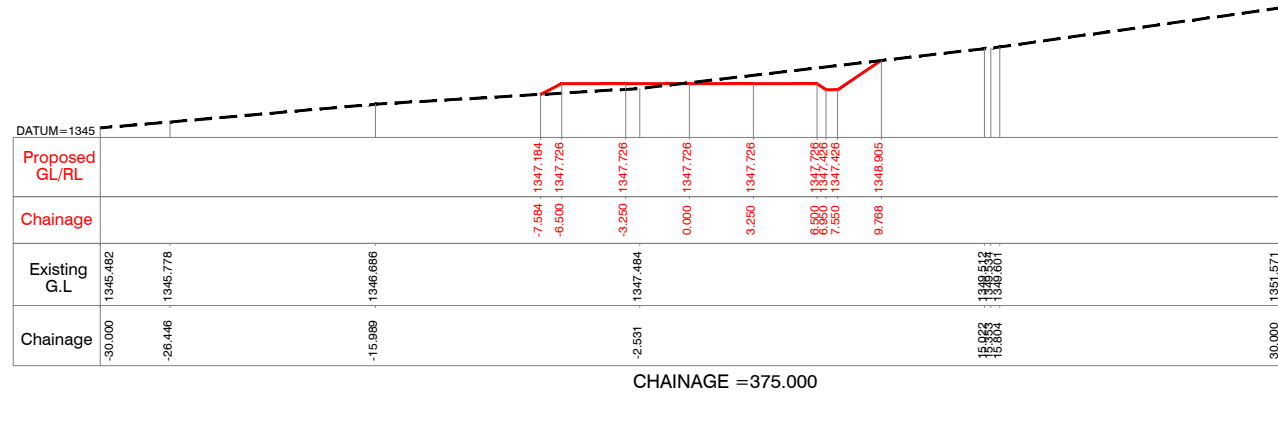
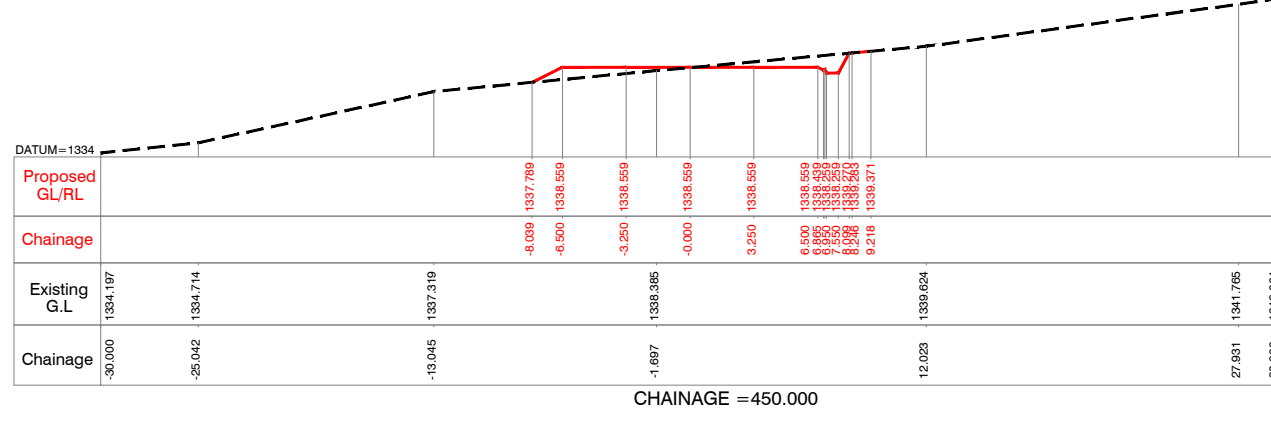
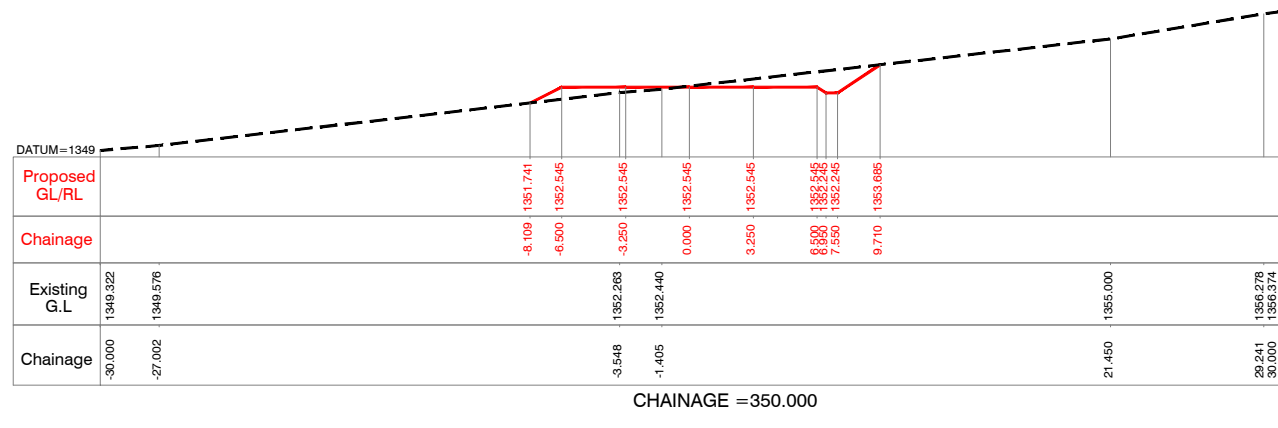
Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 0.200 to @km 0.325

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Rivula Presidency, Singar Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

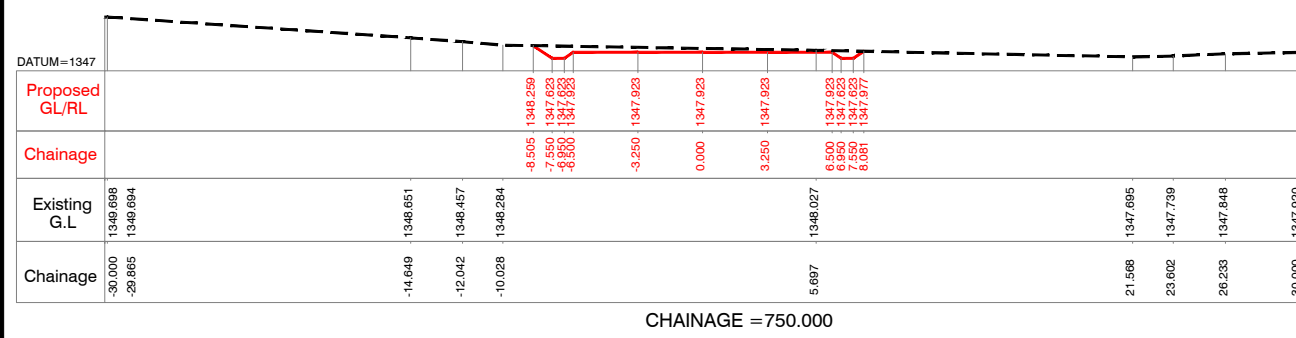


Client :  **REPUBLIC OF UGANDA**
 MINISTRY OF WATER AND ENVIRONMENT

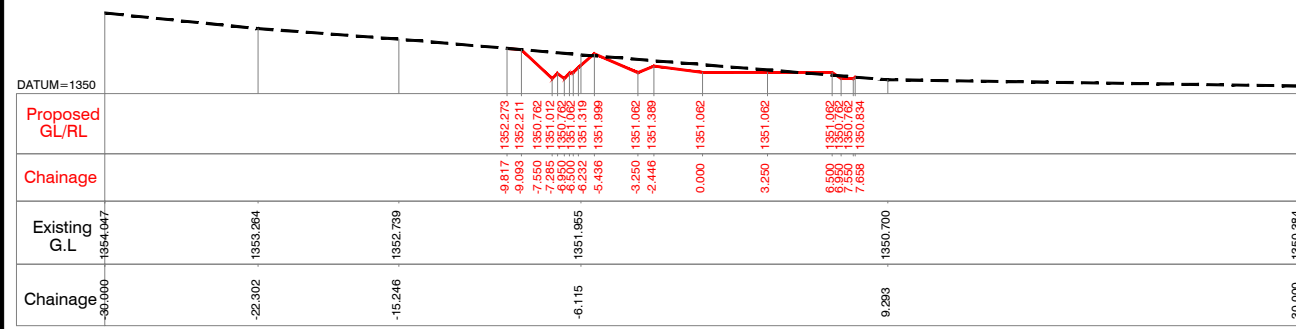
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 0.350 to @km 0.525

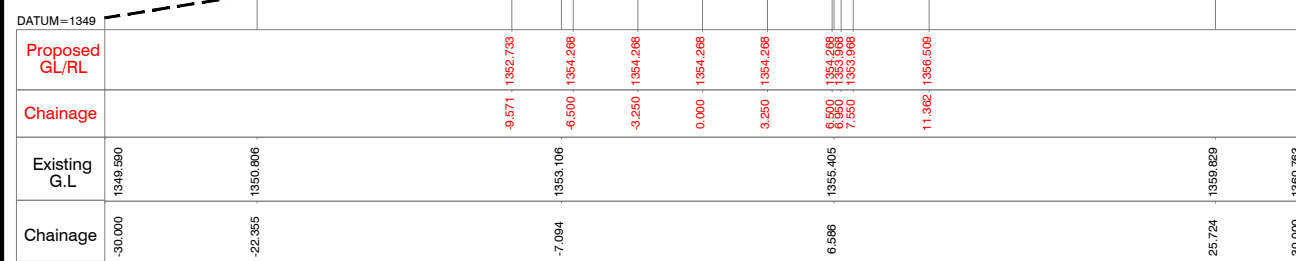
Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Sanganig Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



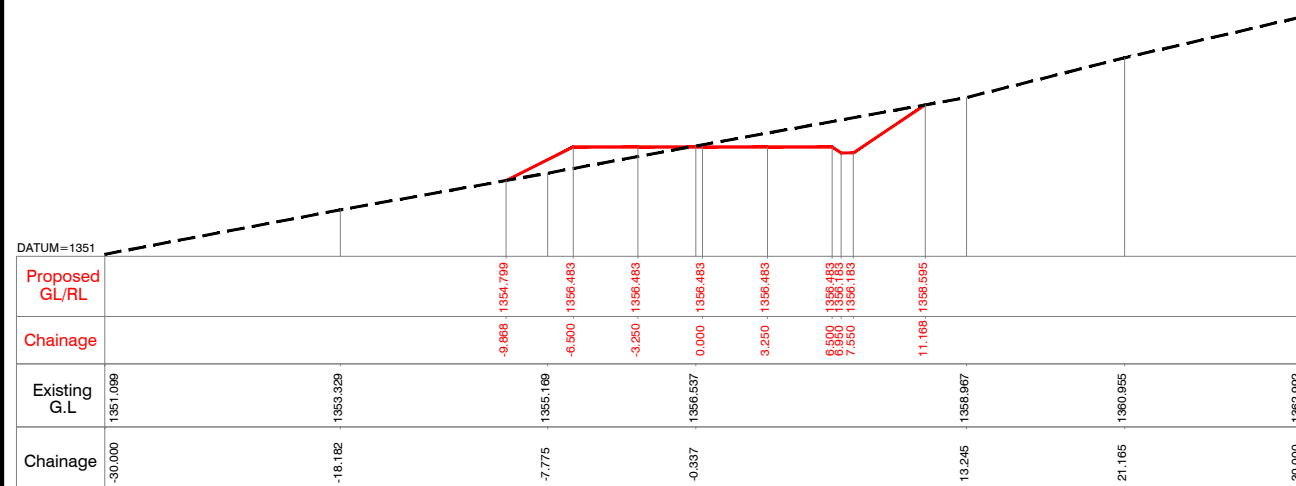
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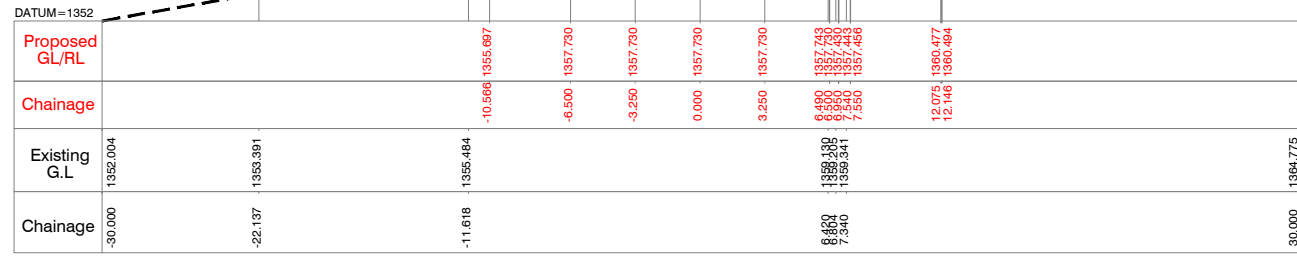
CHAINAGE = 775.000



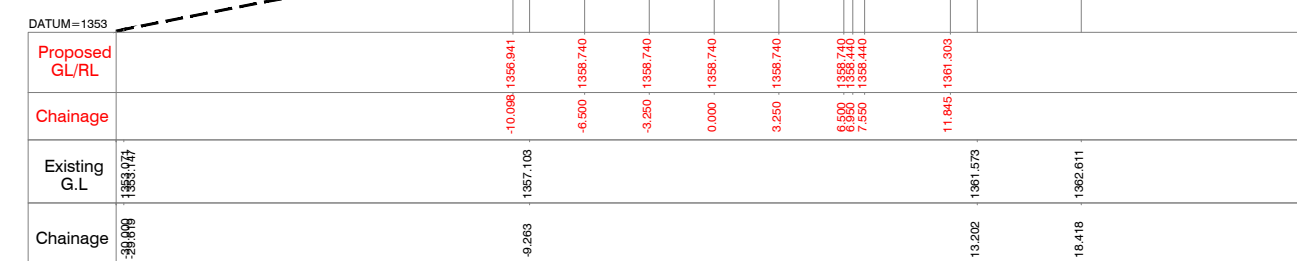
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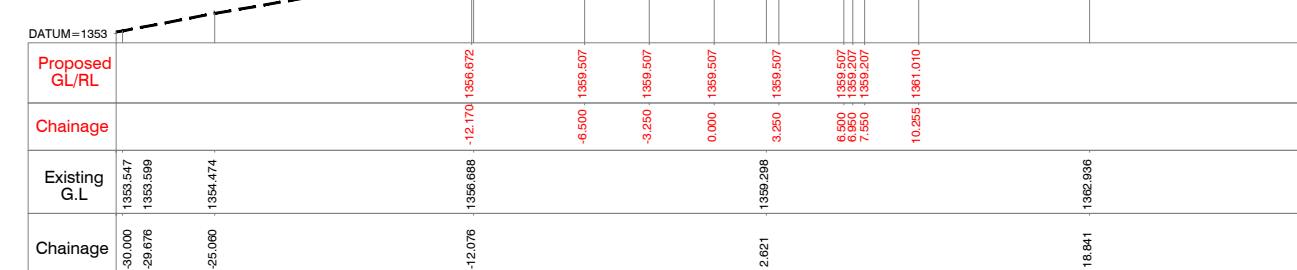
CHAINAGE = 825.000



CHAINAGE = 850.000



CHAINAGE = 875.000



CHAINAGE = 900.000

NOTES:-

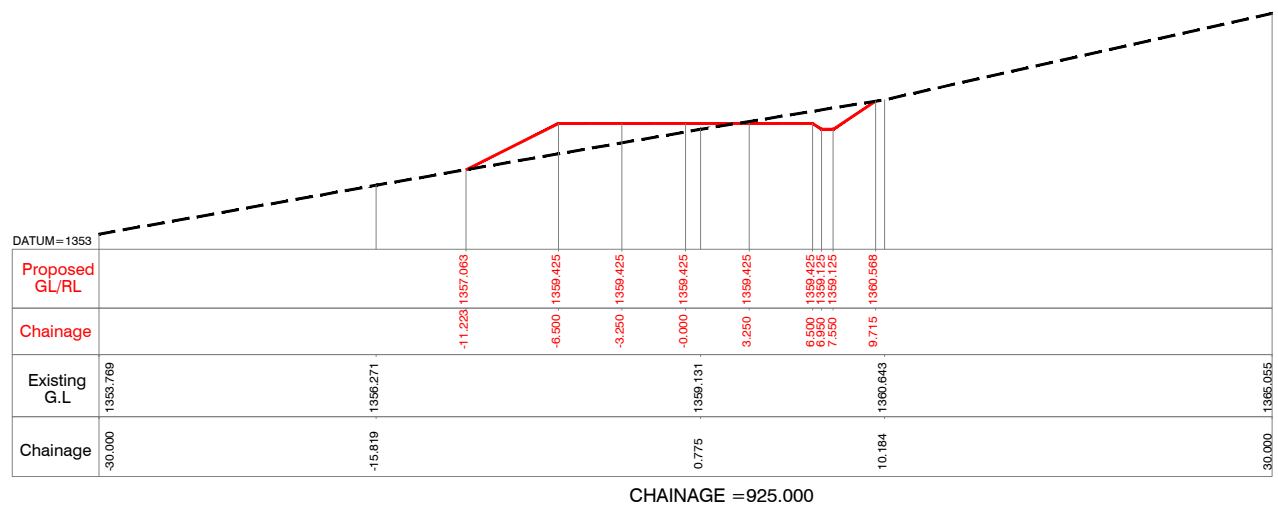
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

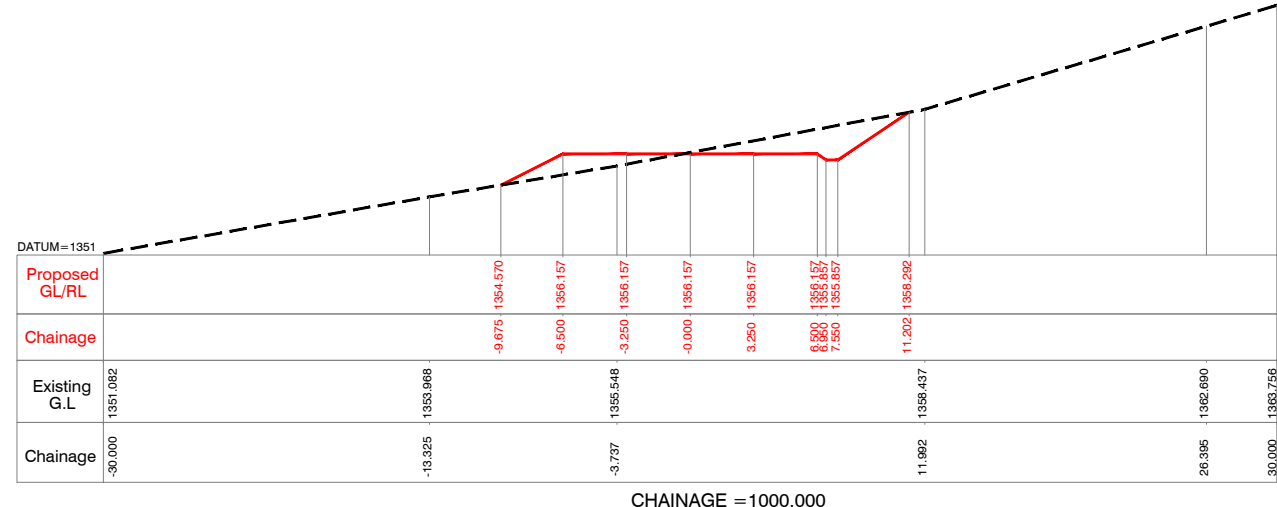
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 0.750 to @km 0.900

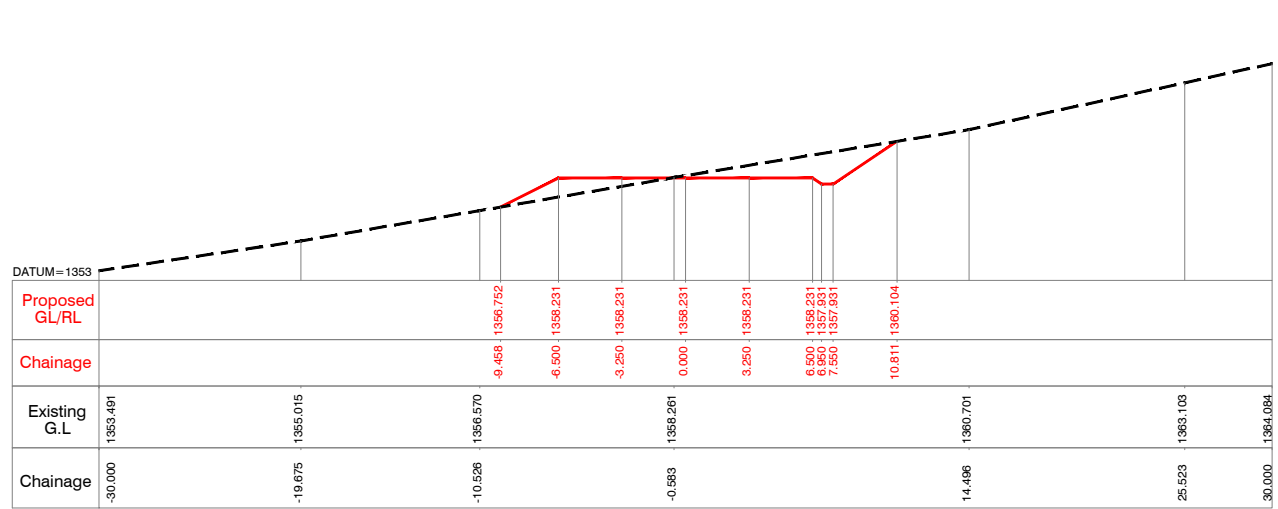
Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



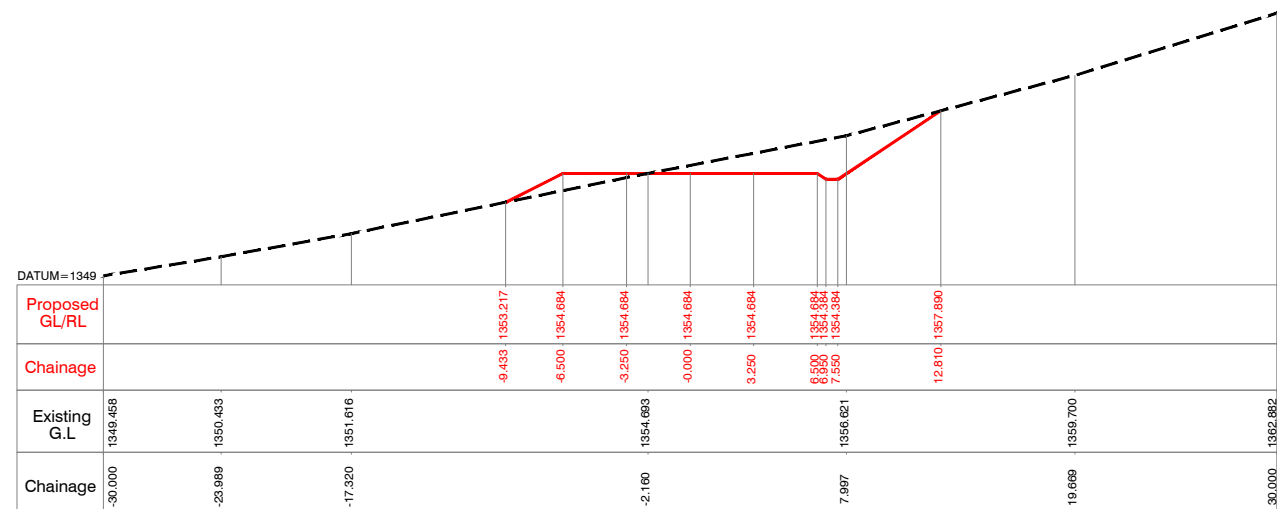
CHAINAGE = 925.000



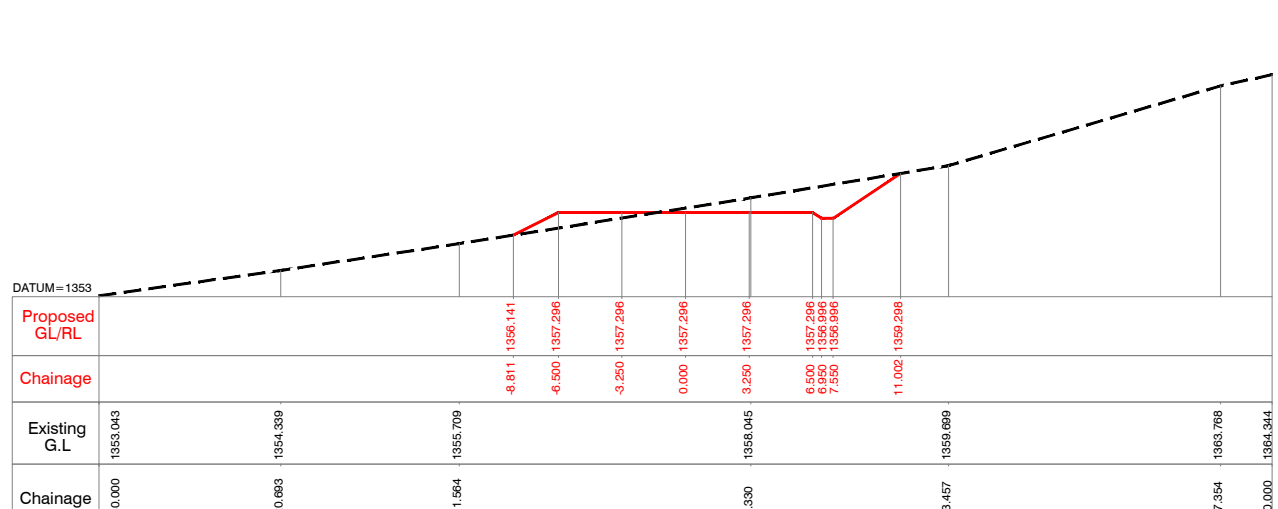
CHAINAGE = 1000.000



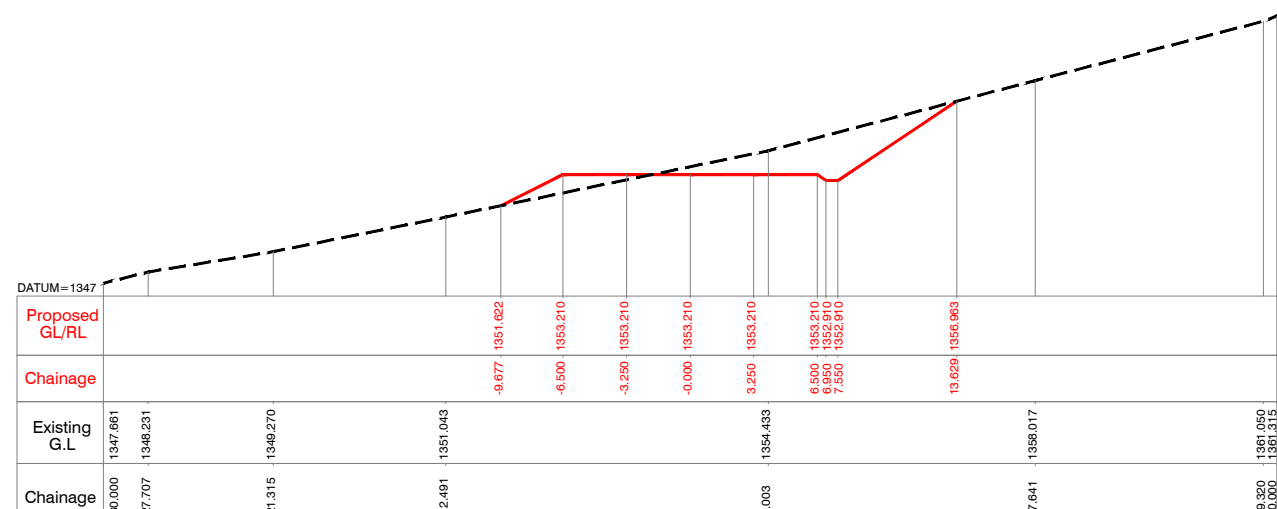
CHAINAGE = 950.000



CHAINAGE = 1025.000



CHAINAGE = 975.000



CHAINAGE = 1050.000

NOTES:-

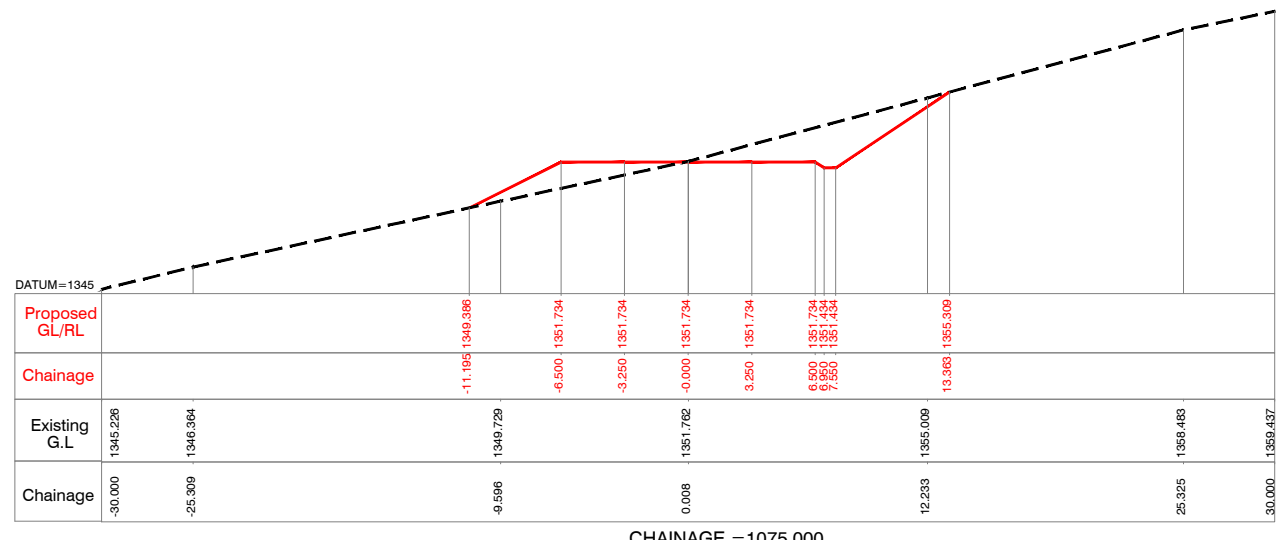
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client :  REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

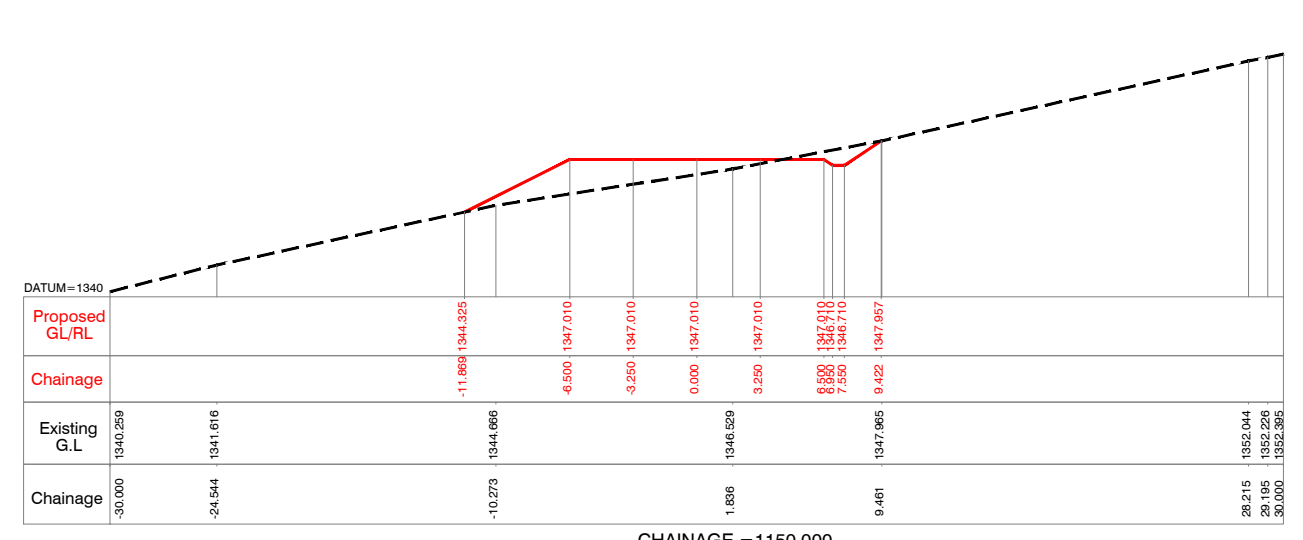
Project : KABUYANDA IRRIGATION SCHEME

Title : RIGH T SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
@km 0.925 to @km 1.050

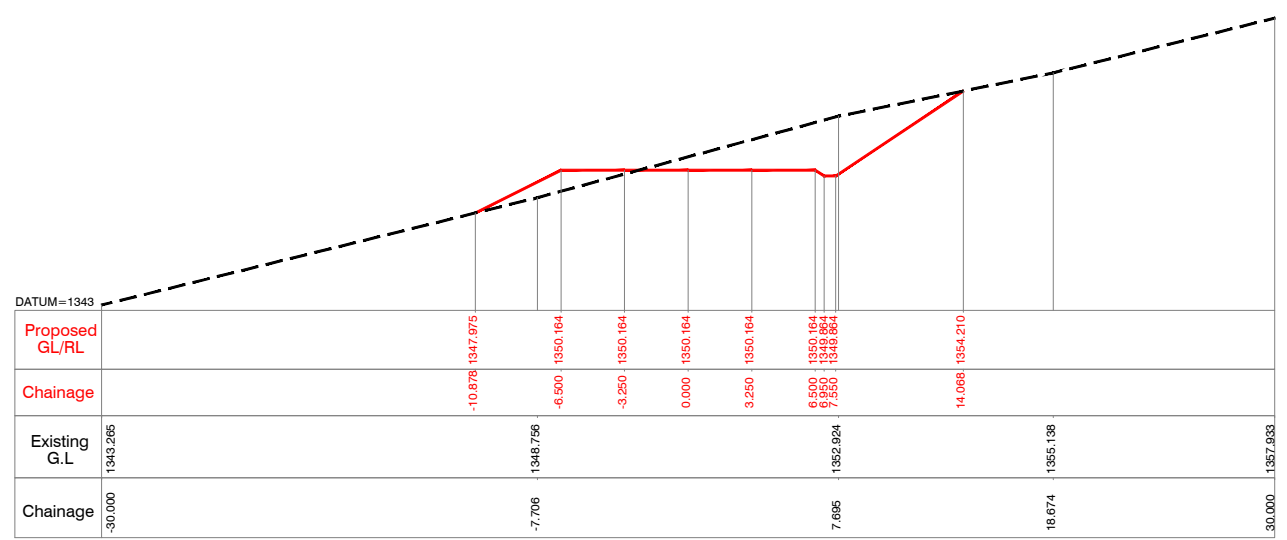
Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



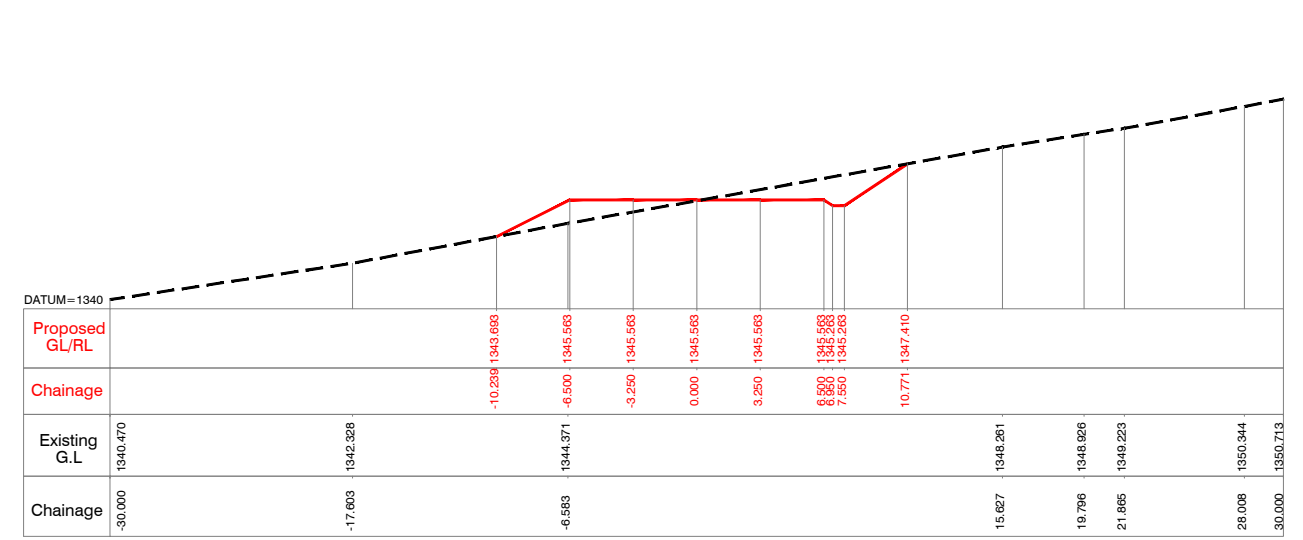
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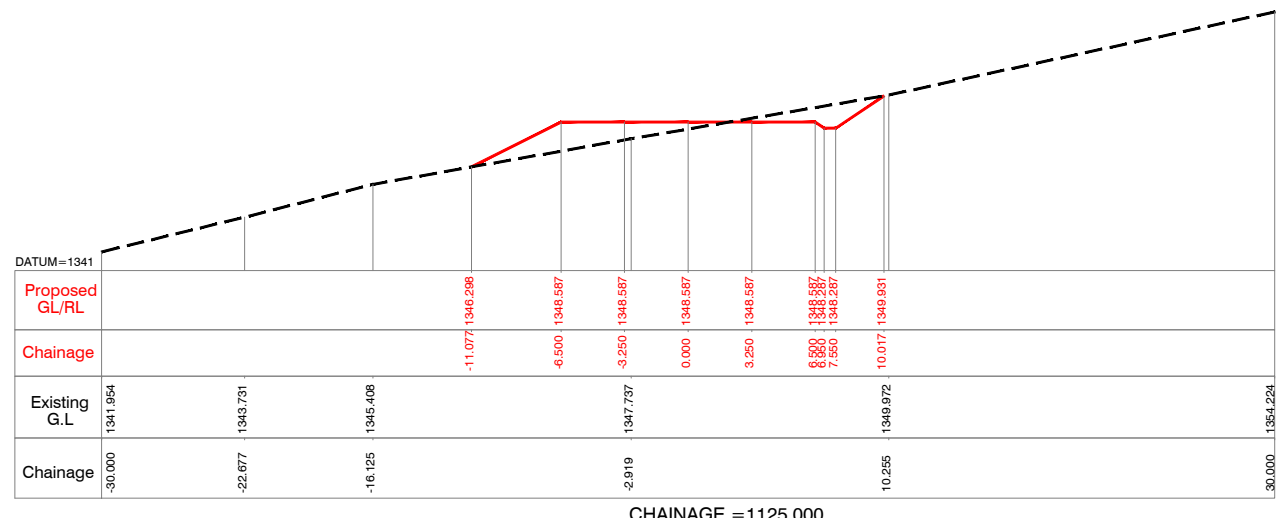
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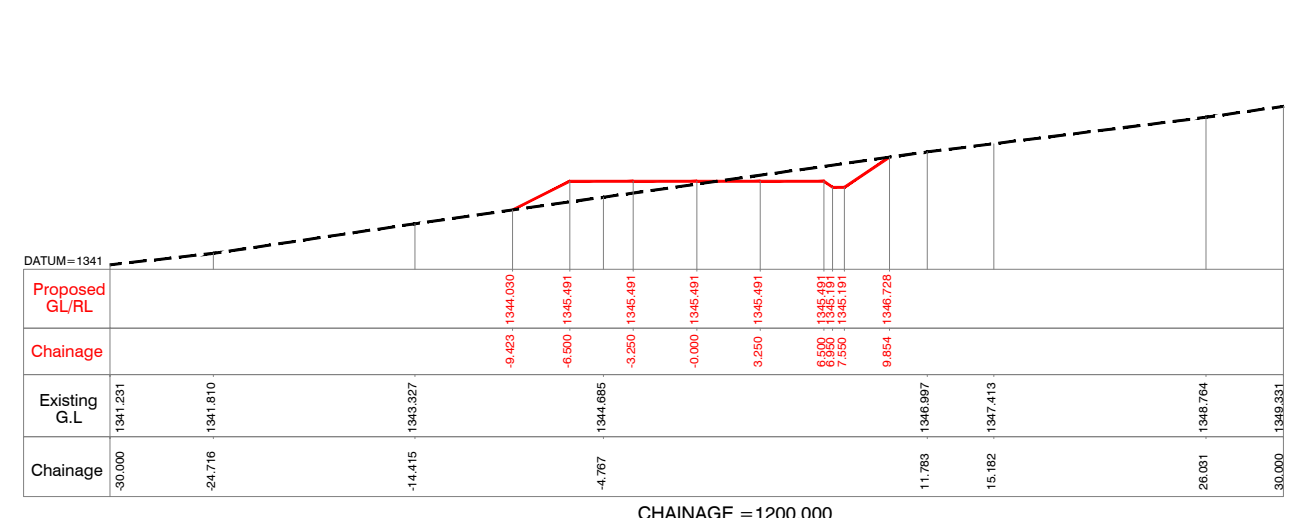
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CHAINAGE = 1175.000



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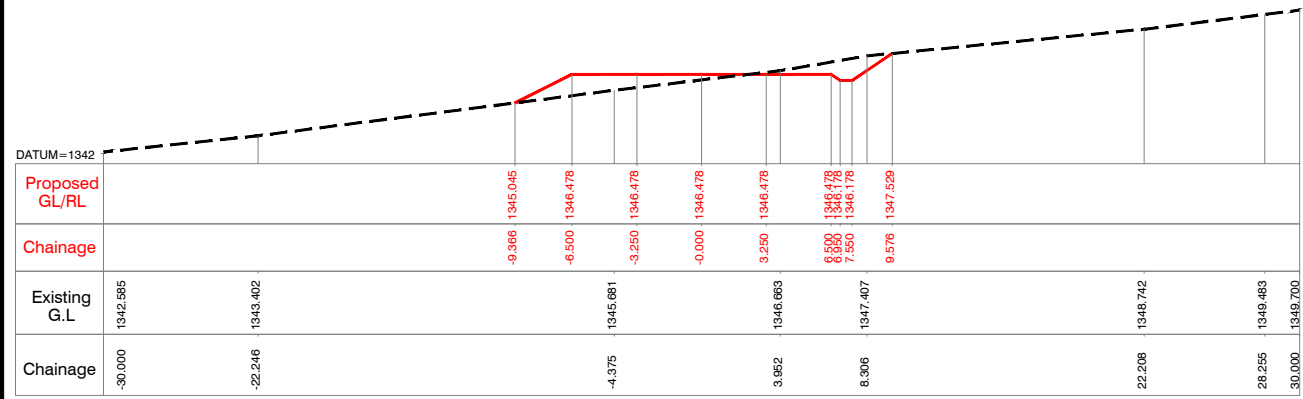
NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

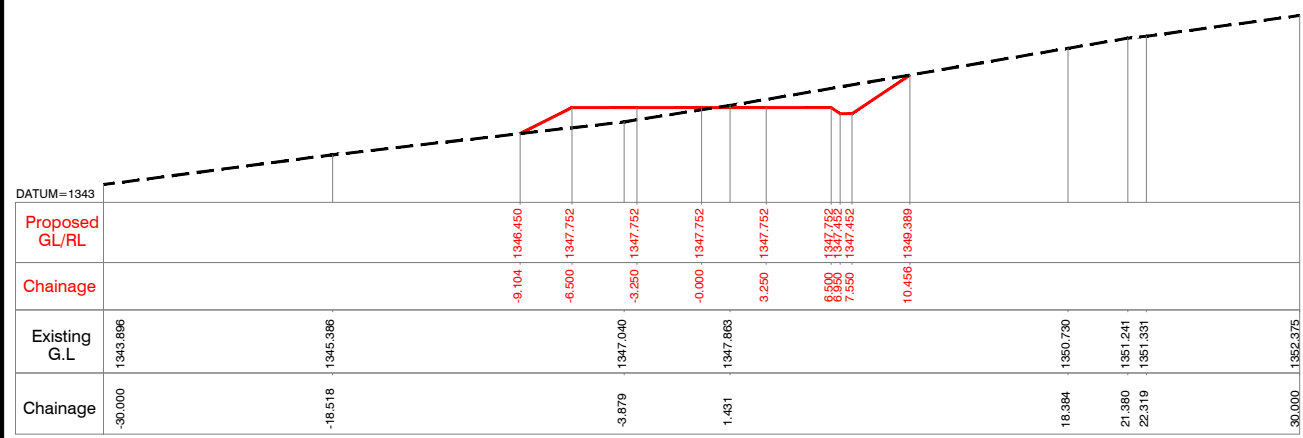
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 1.075 to @km 1.200

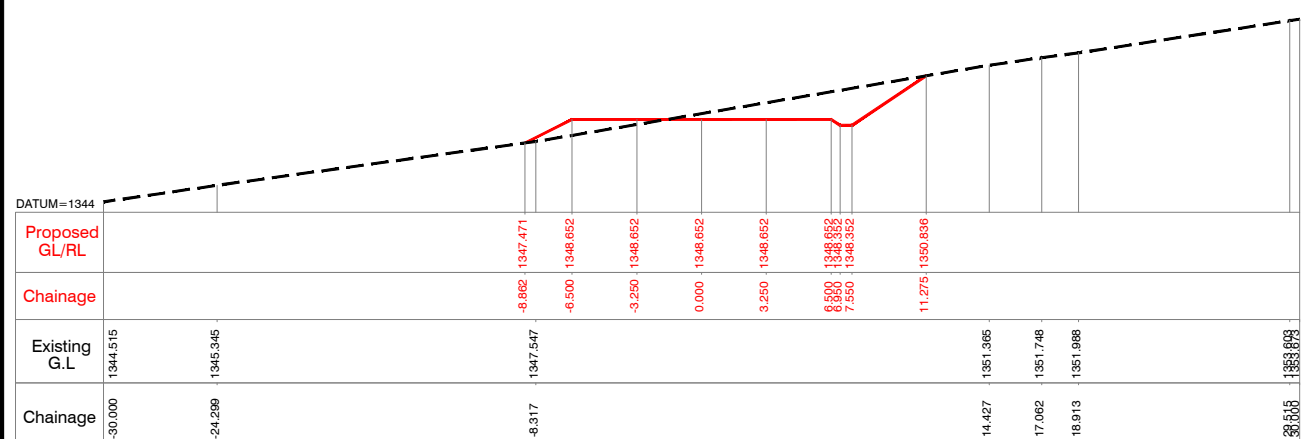
Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



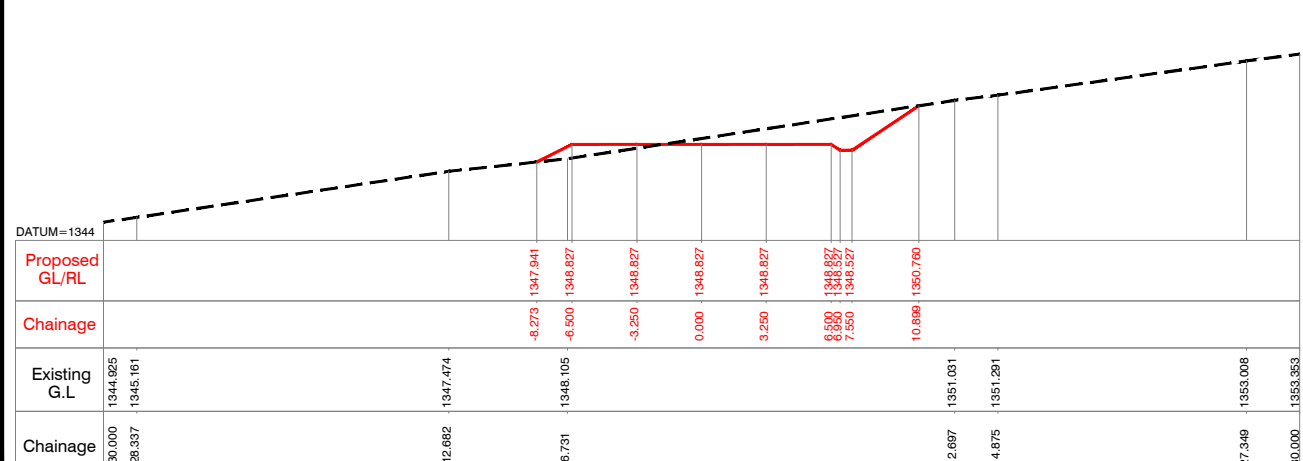
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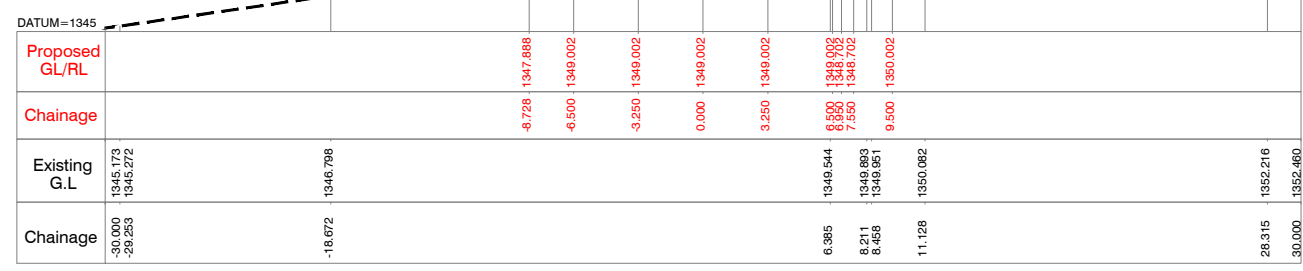
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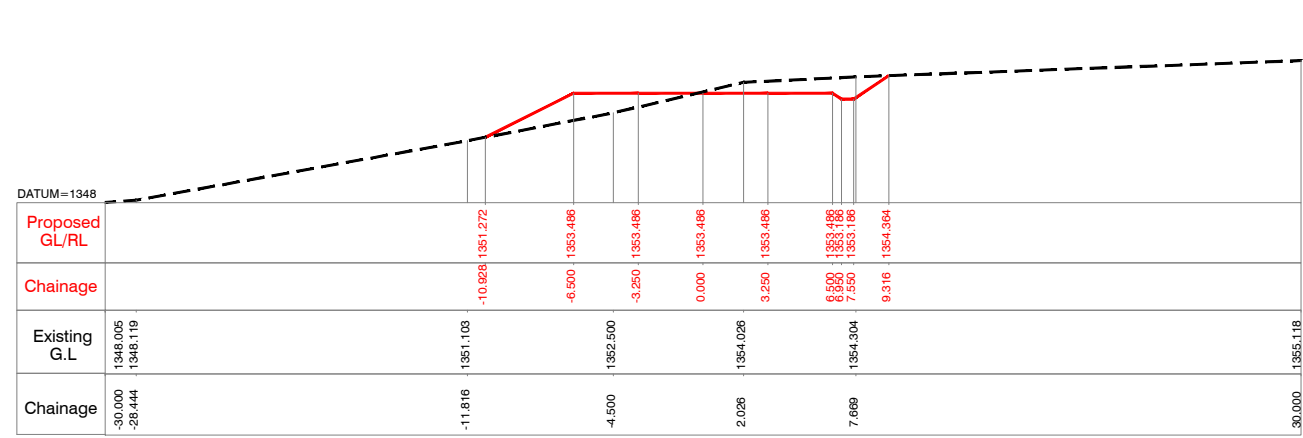
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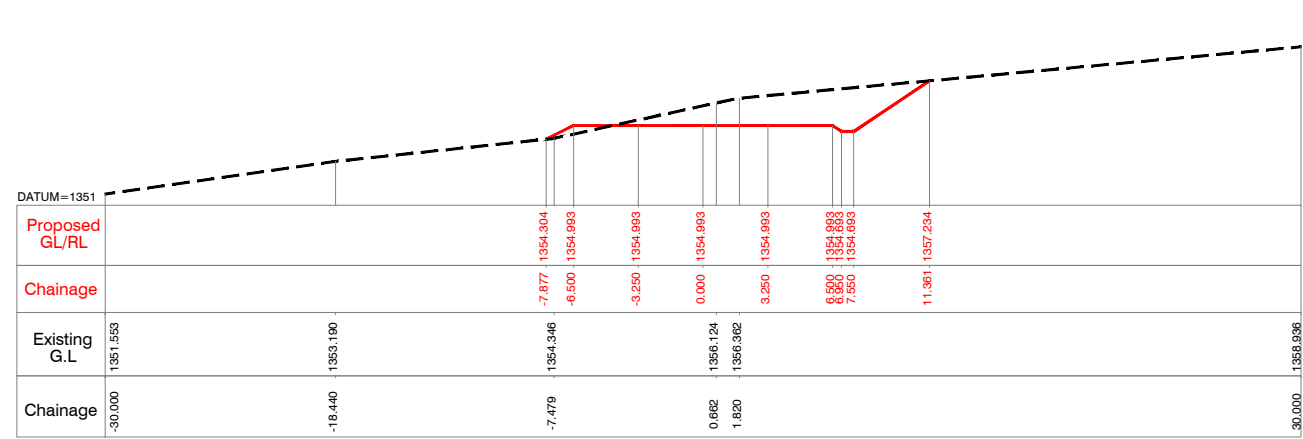
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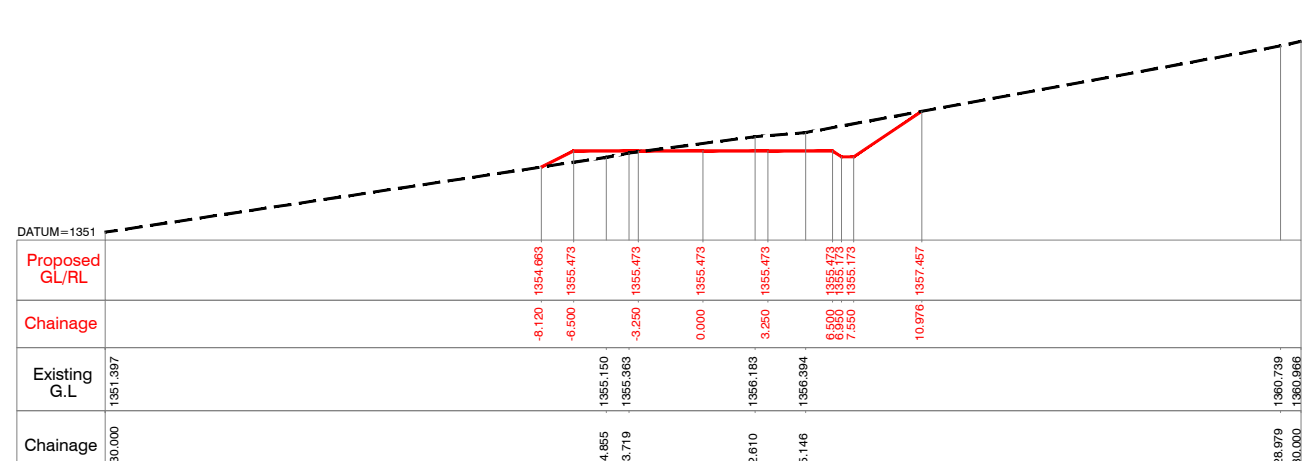
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CHAINAGE = 1350.000



CHAINAGE = 1375.000



CHAINAGE = 1400.000

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 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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Client : REPUBLIC OF UGANDA
 MINISTRY OF WATER AND ENVIRONMENT

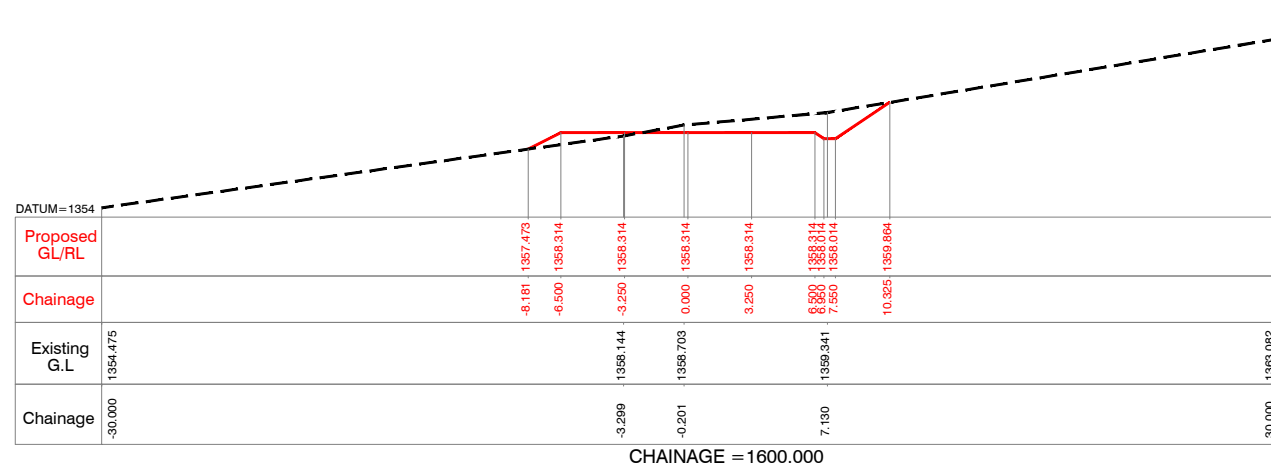
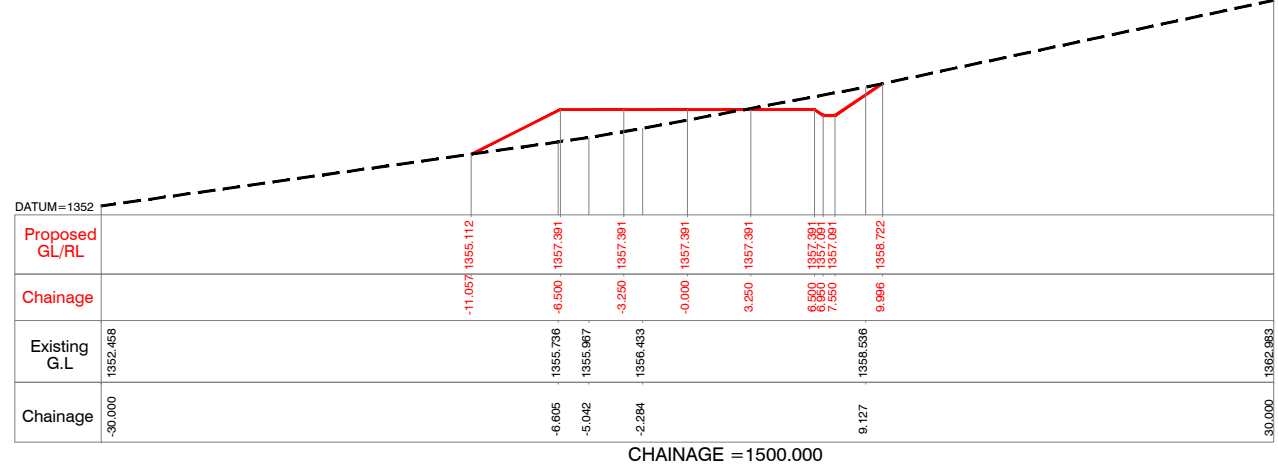
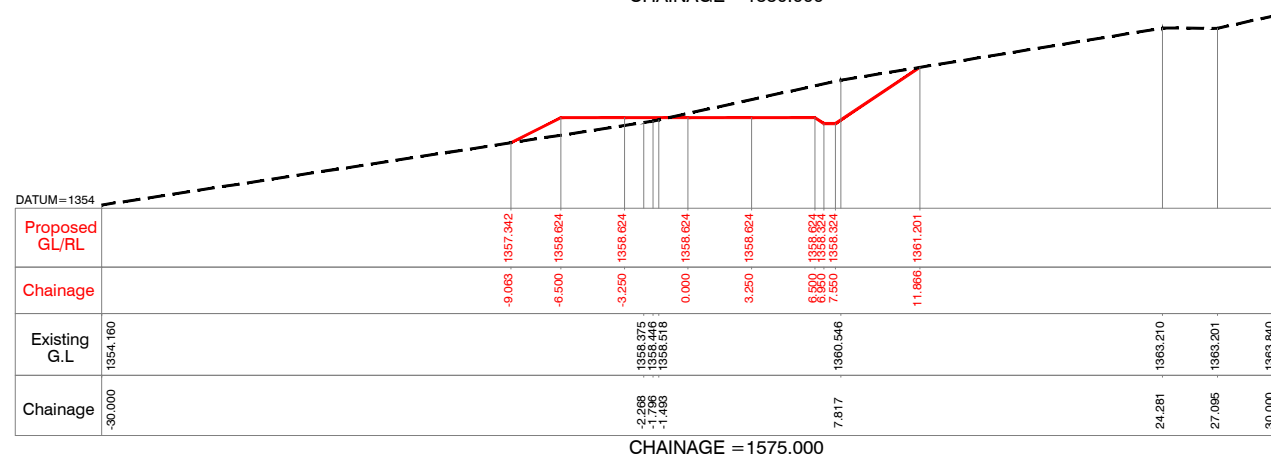
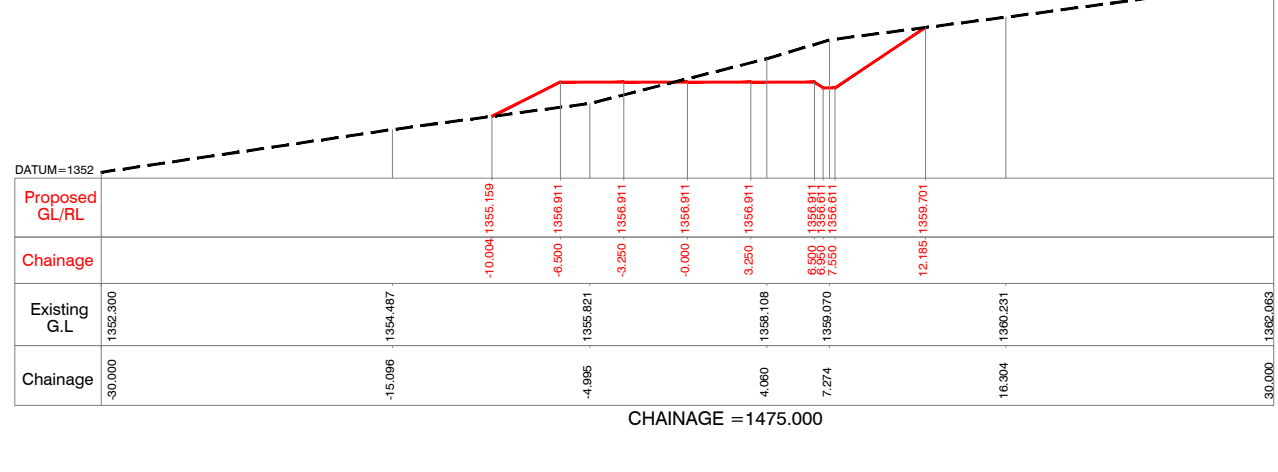
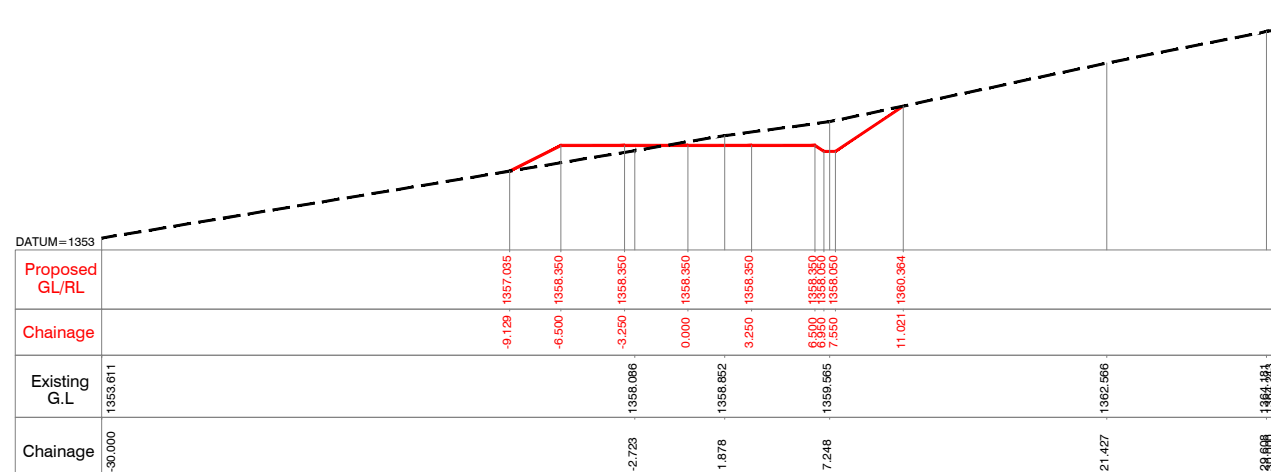
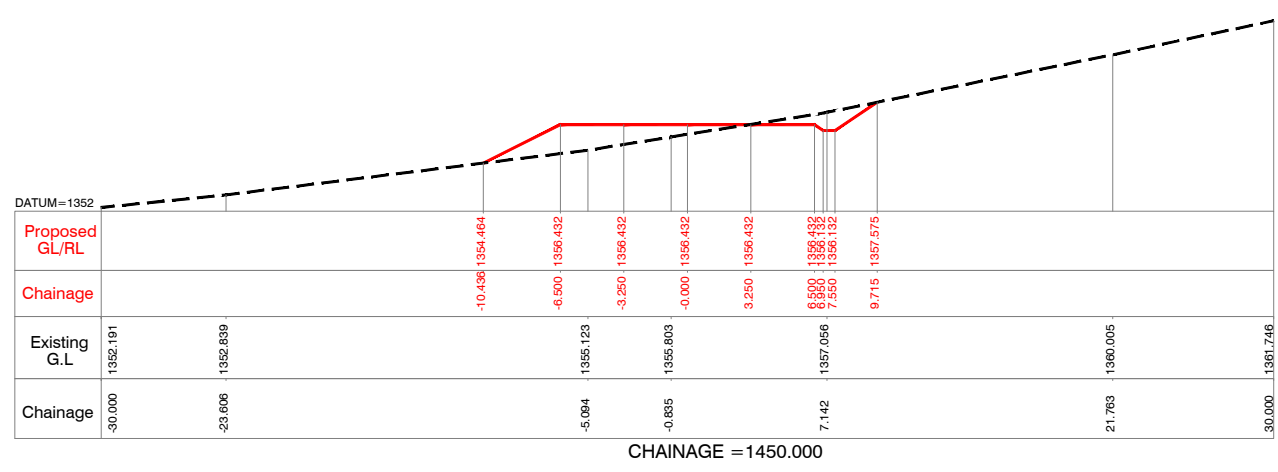
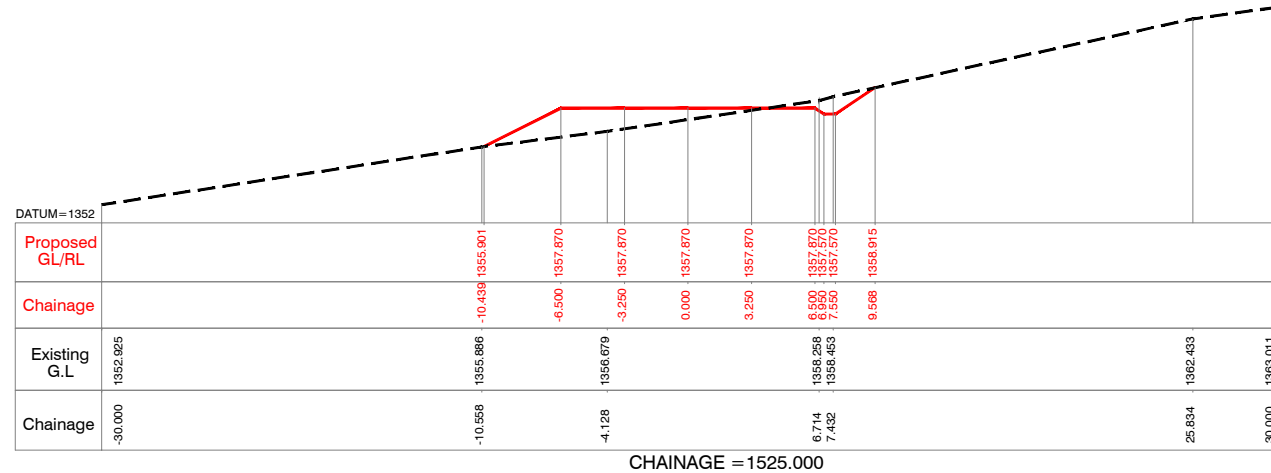
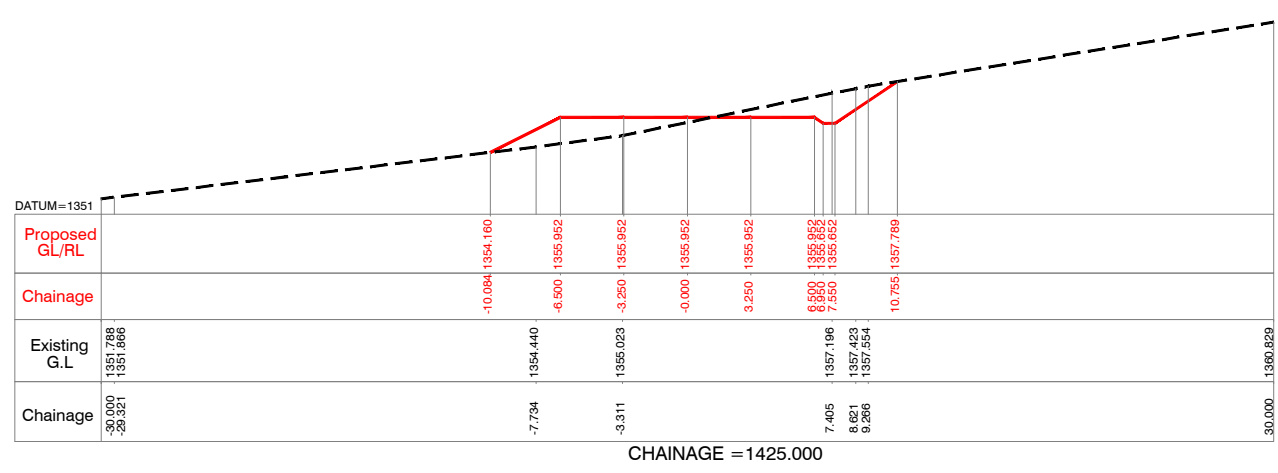
Project : KABUYANDA IRRIGATION SCHEME

Title : RIGH SIDE ACCESS ROAD FROM DAM SITE
 CROSS SECTION
 @km 1.225 to @km 1.400

Consultants : aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

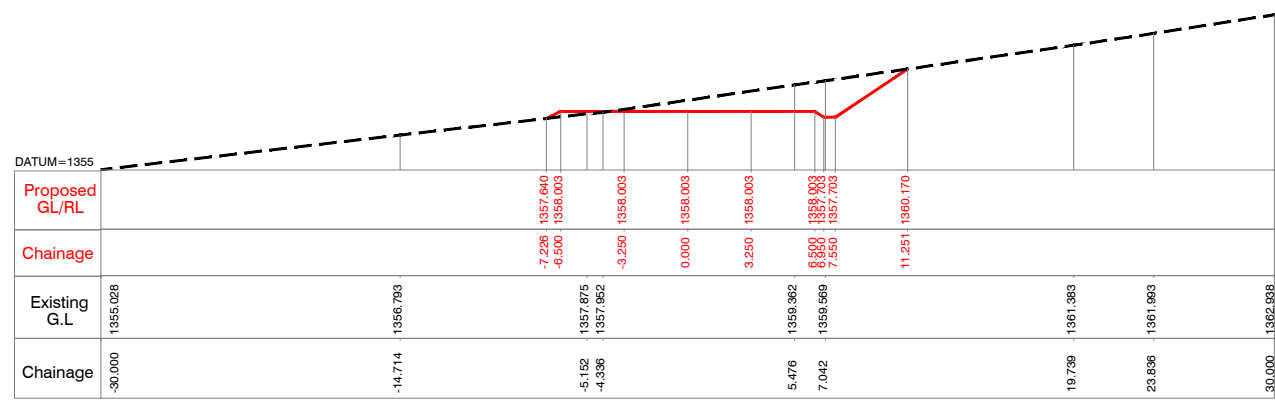
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 1.425 to @km 1.600

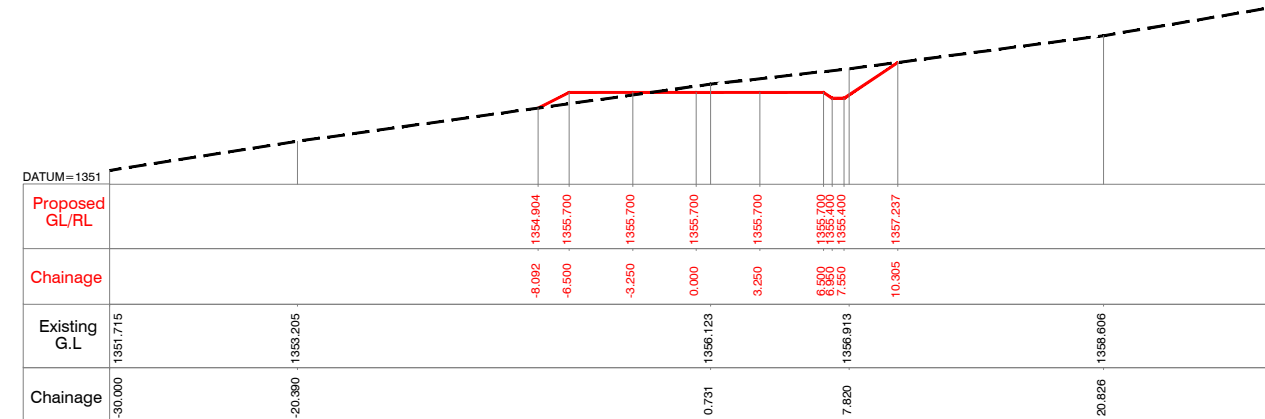
Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
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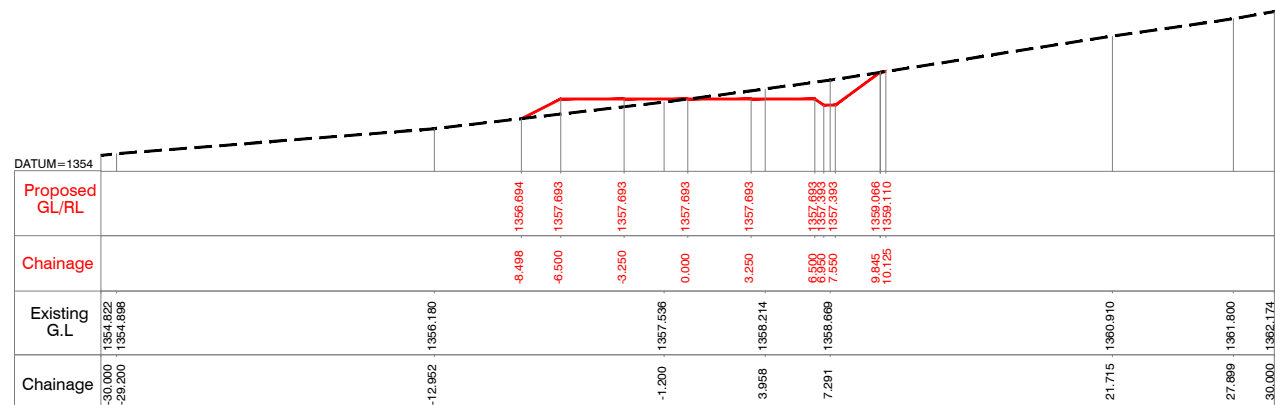
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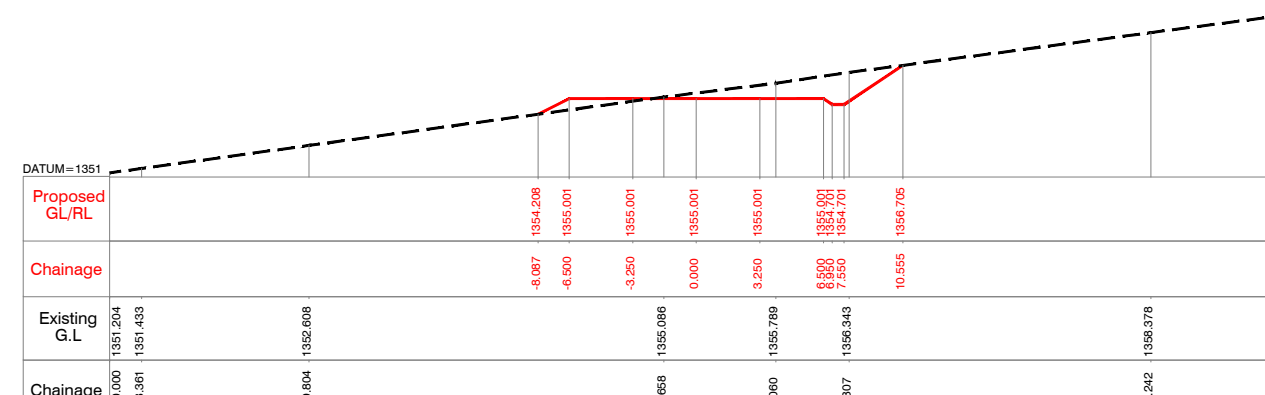
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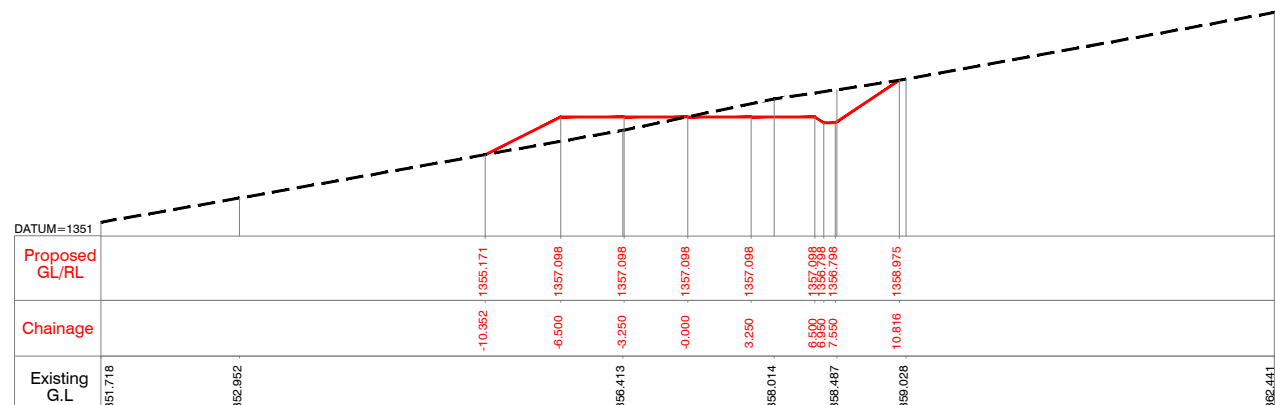
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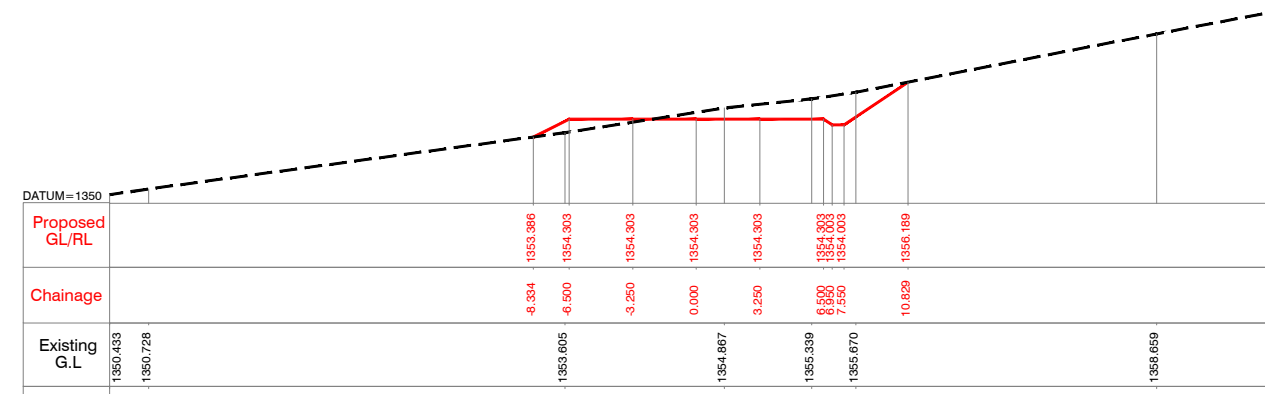
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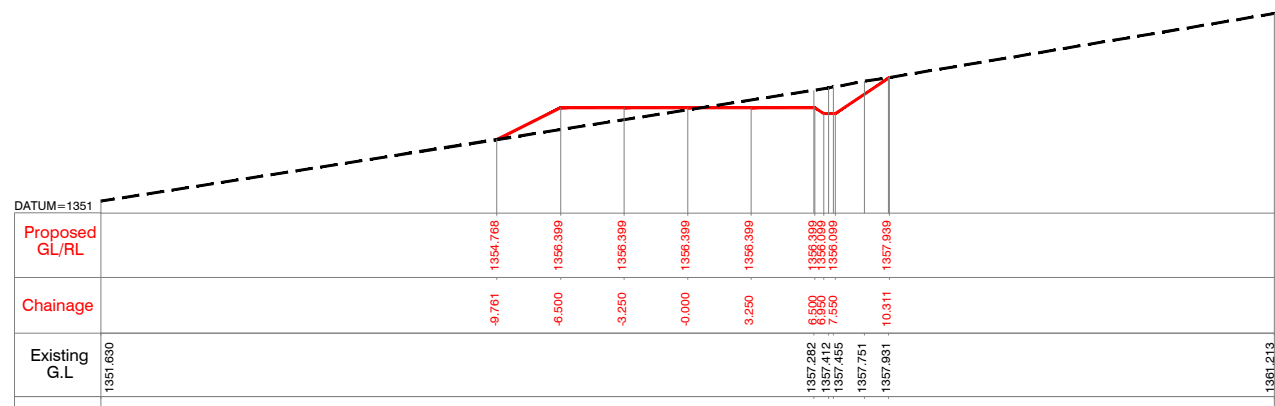
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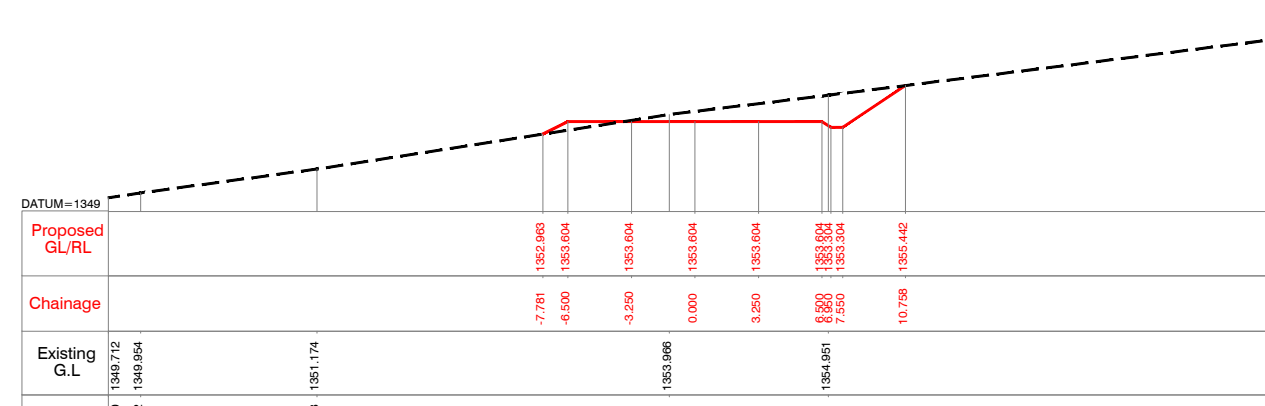
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CHAINAGE = 1700.000



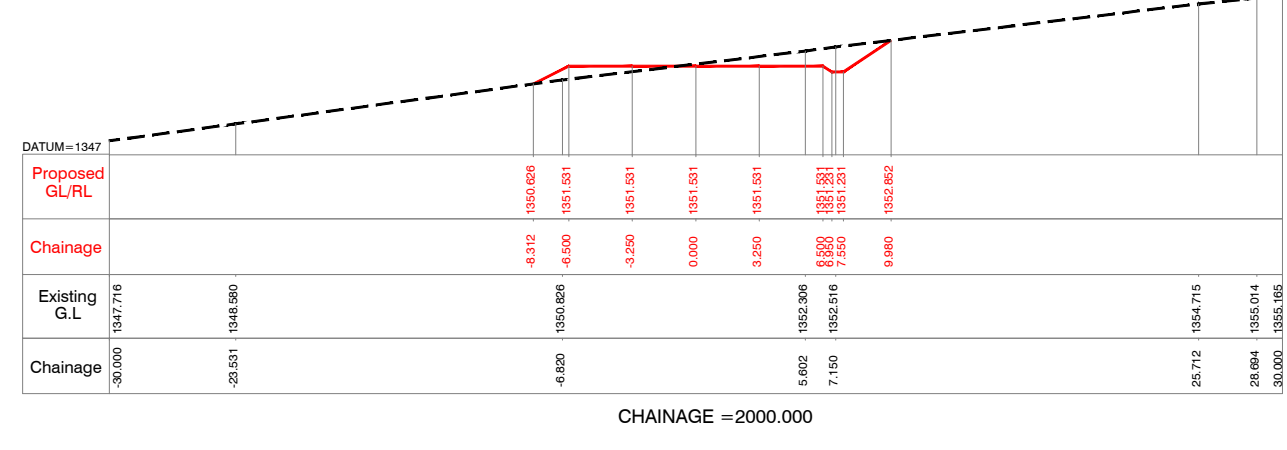
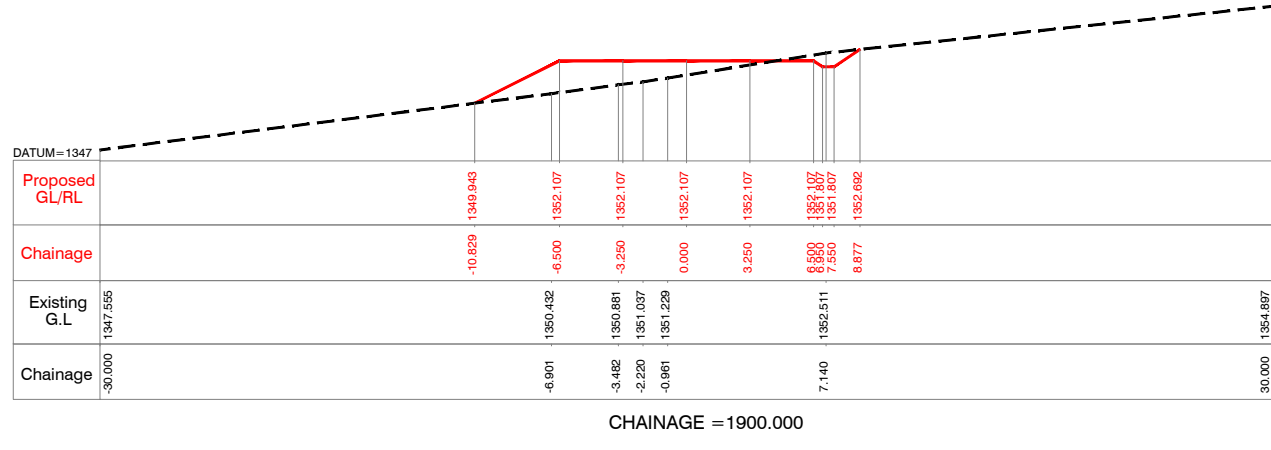
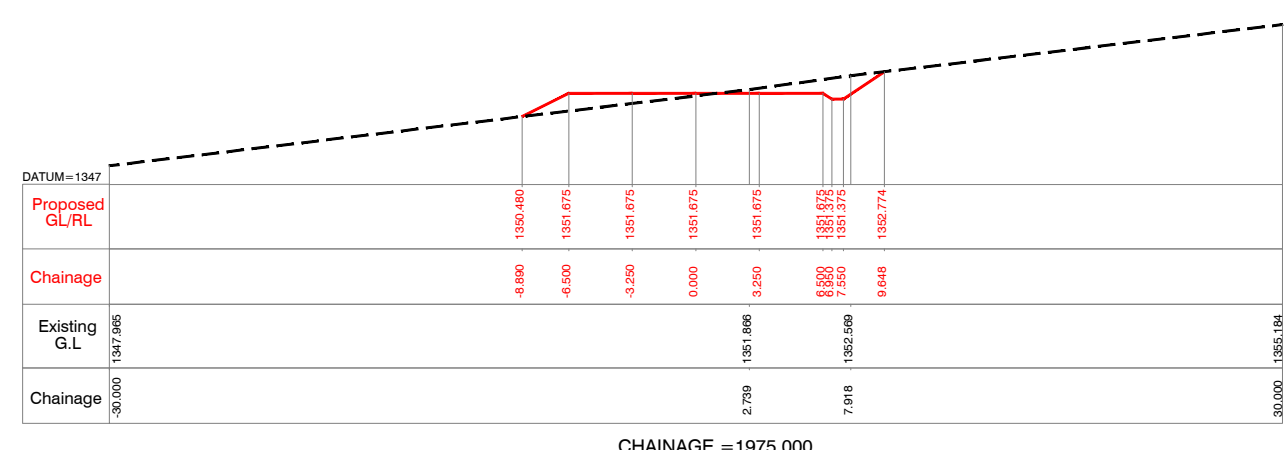
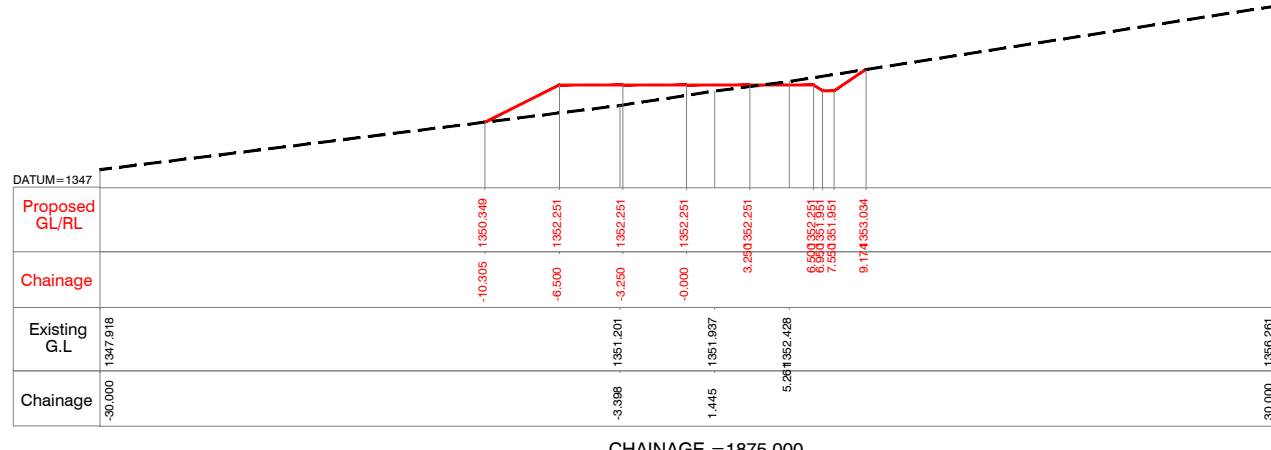
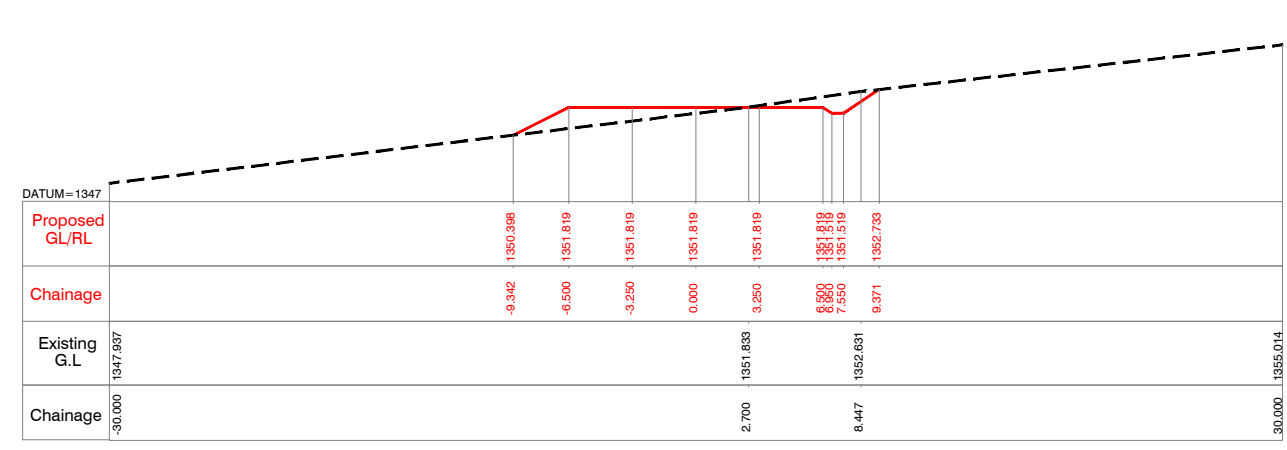
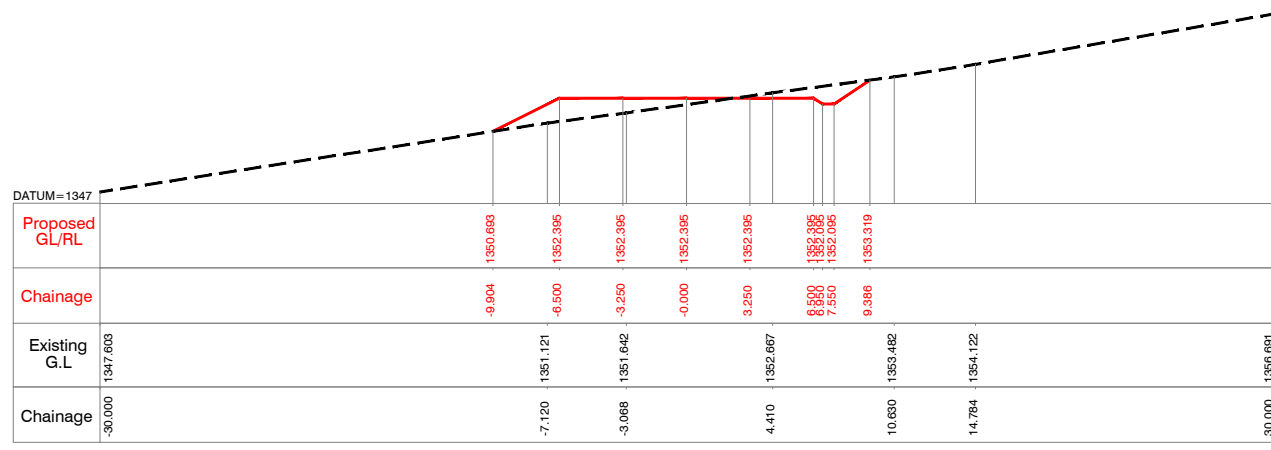
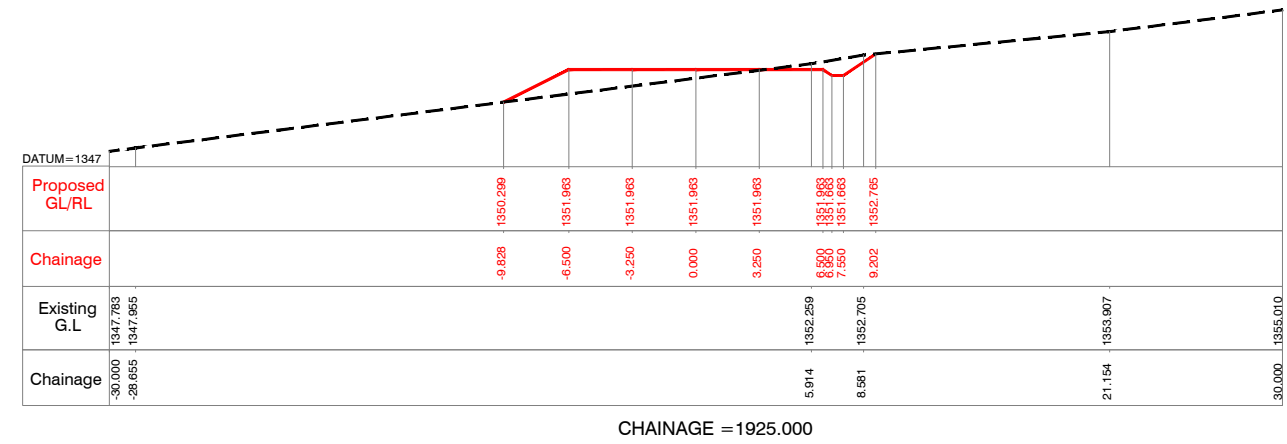
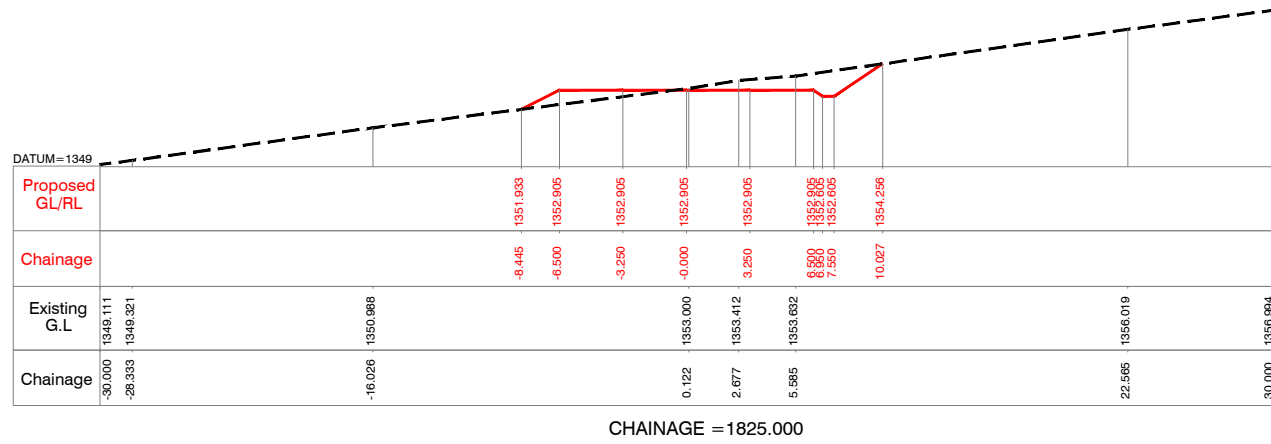
CHAINAGE = 1800.000

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : RIGHT SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
@km 1.625 to @km 1.800

Consultants :
aarvee associates
architects engineers & consultants pvt.ltd.
Revduta Residency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737833; Fax: +91-4023738277
e-mail: irrigation@aarvee.net; web: www.aarvee.net



NOTES:-
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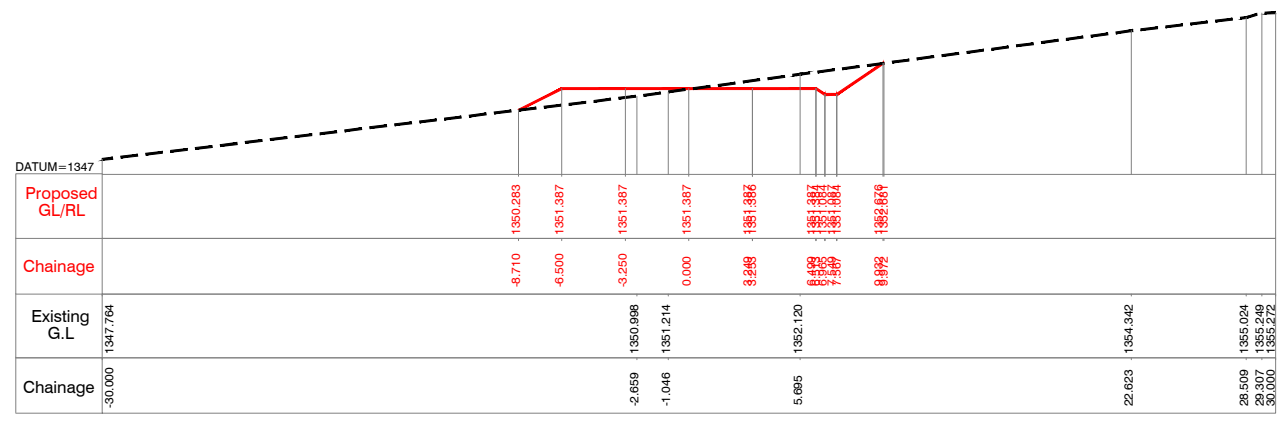
Client : REPUBLIC OF UGANDA
 MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

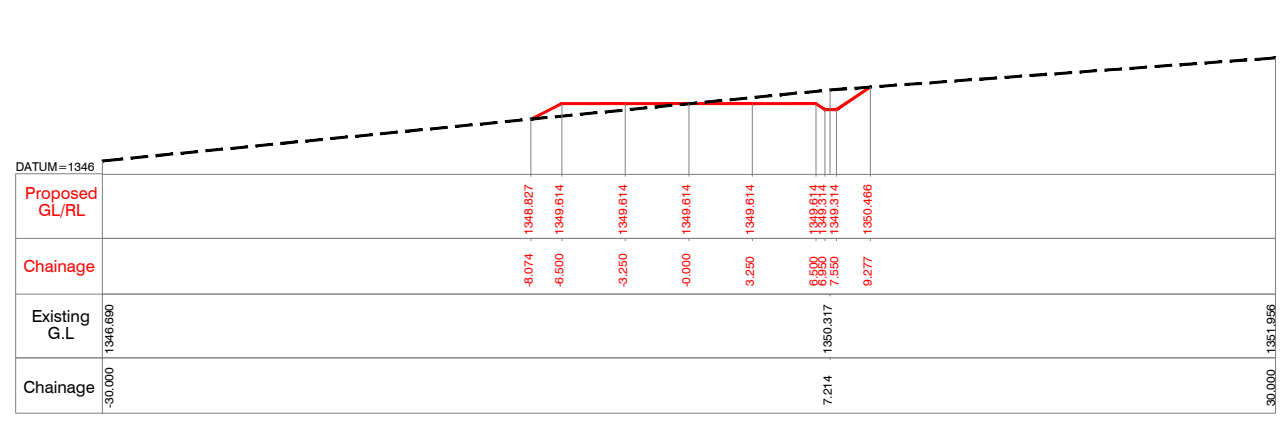
Title : RIGTH SIDE ACCESS ROAD FROM DAM SITE
 CROSS SECTION
 @km 1.825 to @km 2.000

Consultants : aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net

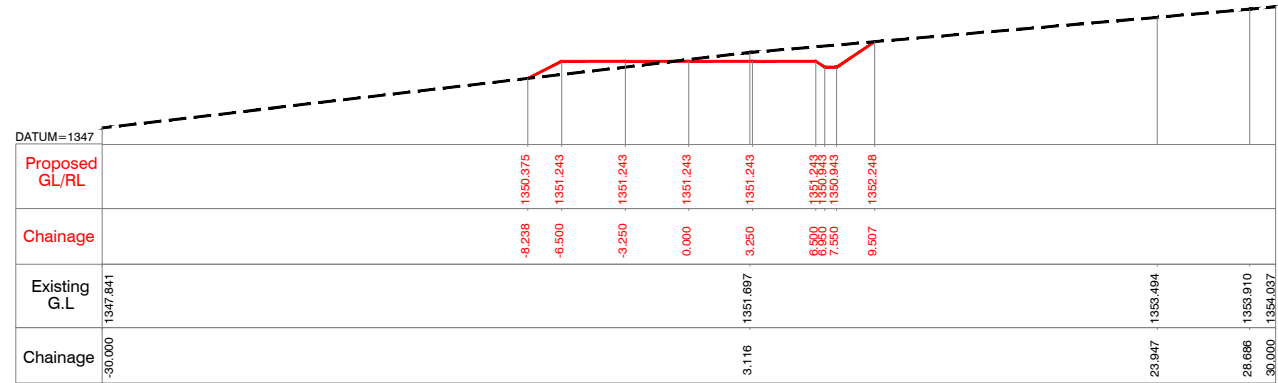
Drg. No. AA/IRR/2238/KIS/RAR/CS/01 | 13 of 30 | Date | 17-08-2019



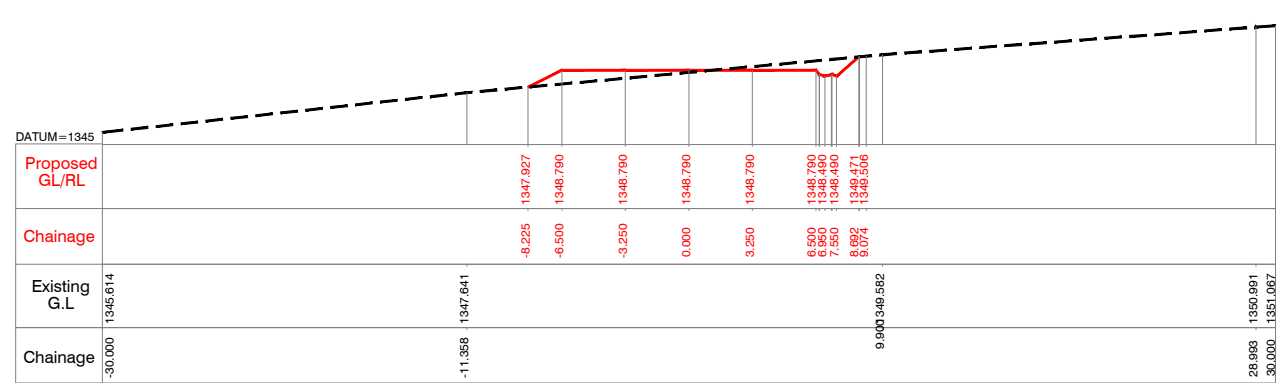
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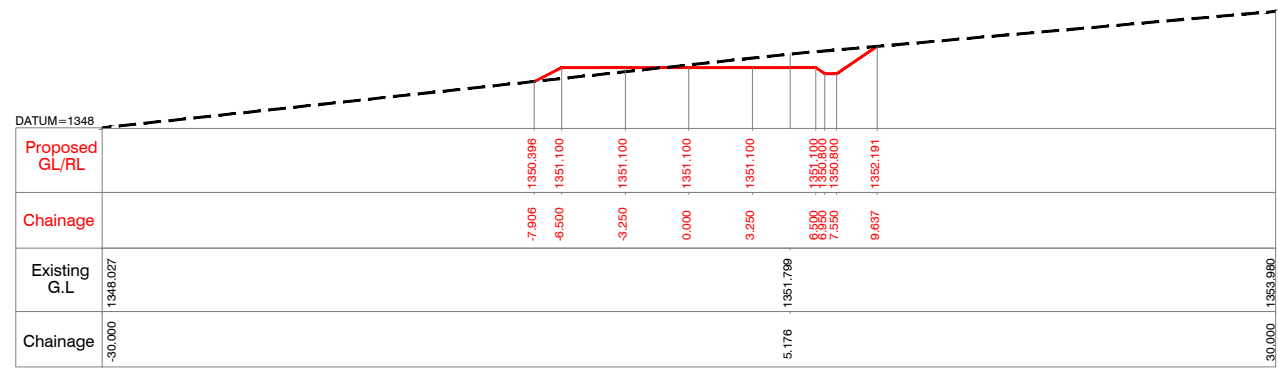
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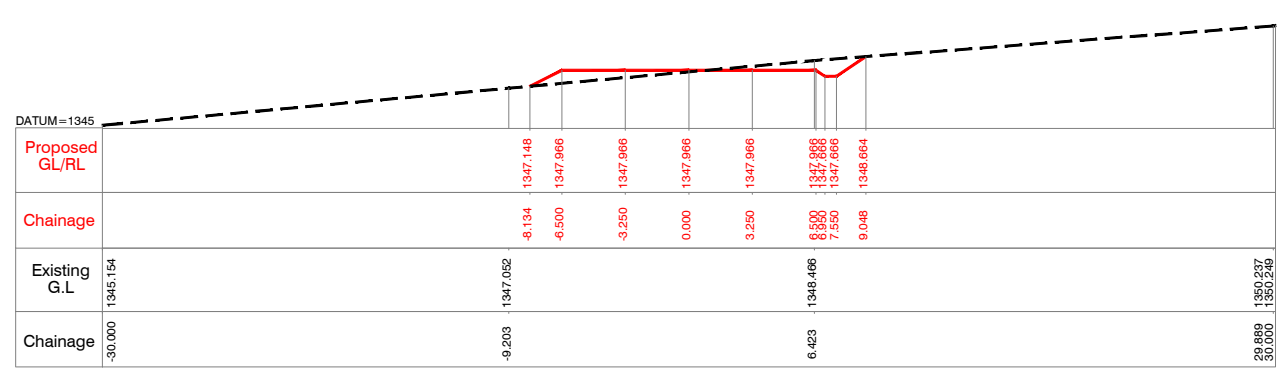
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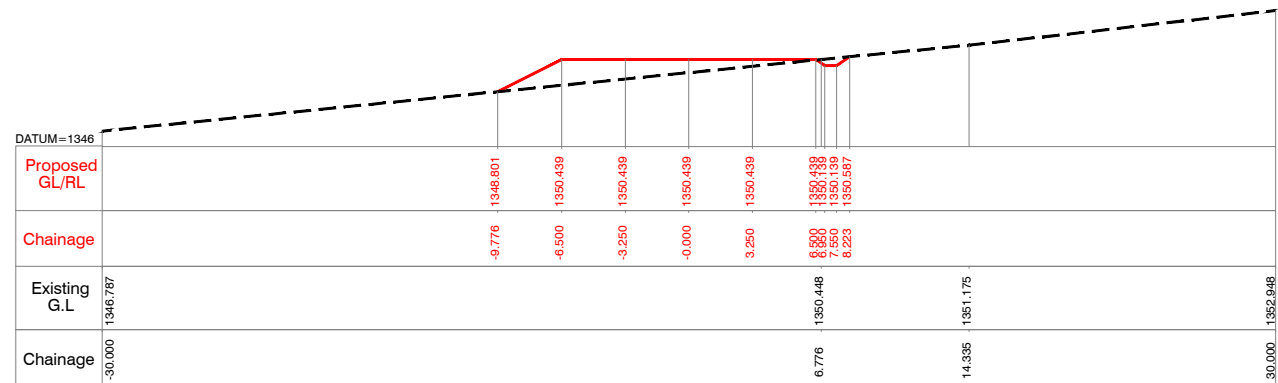
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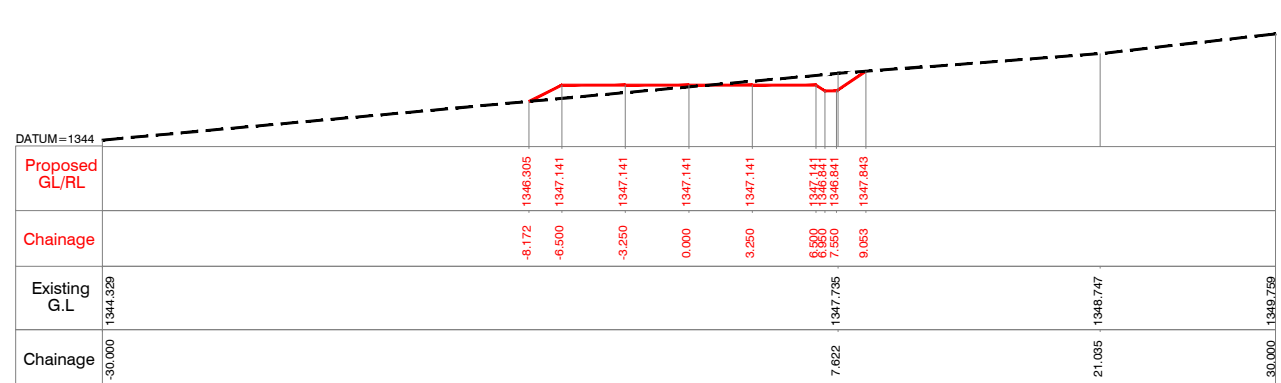
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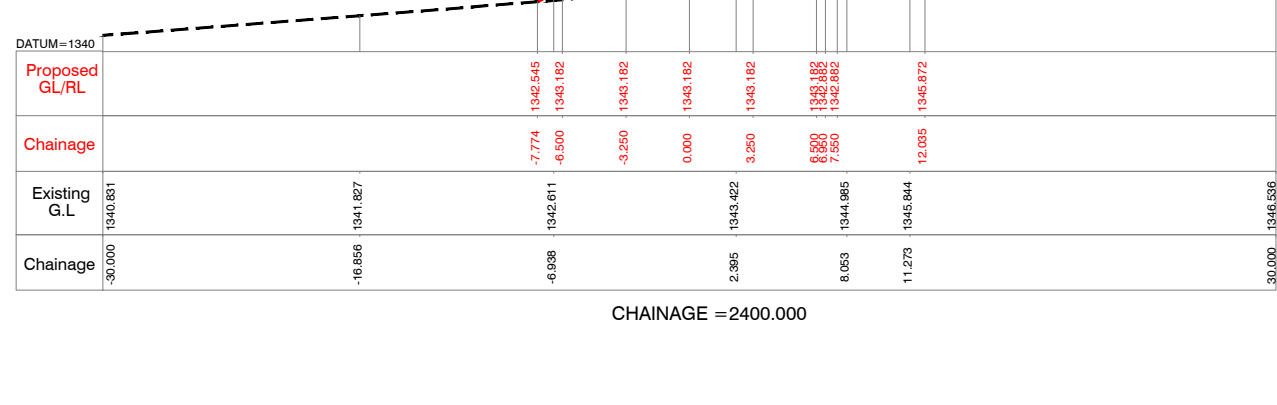
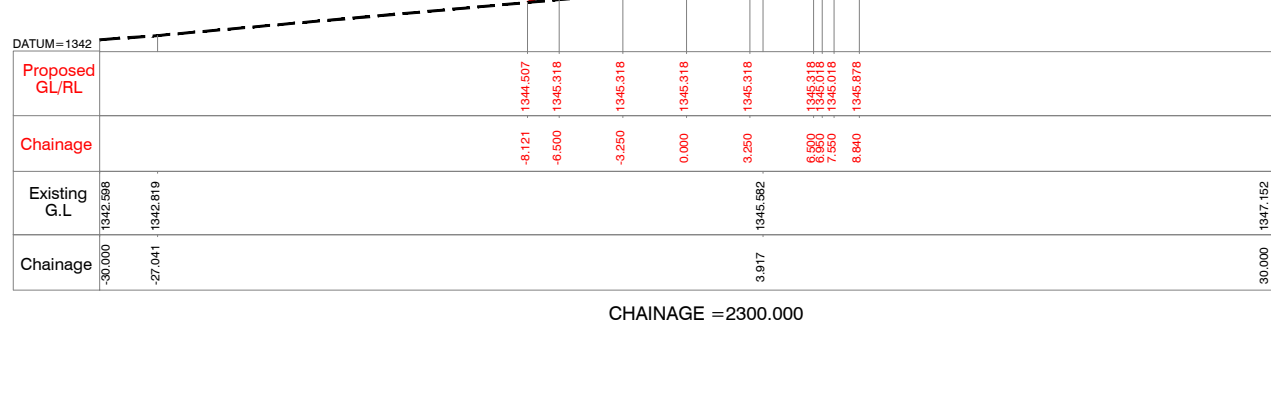
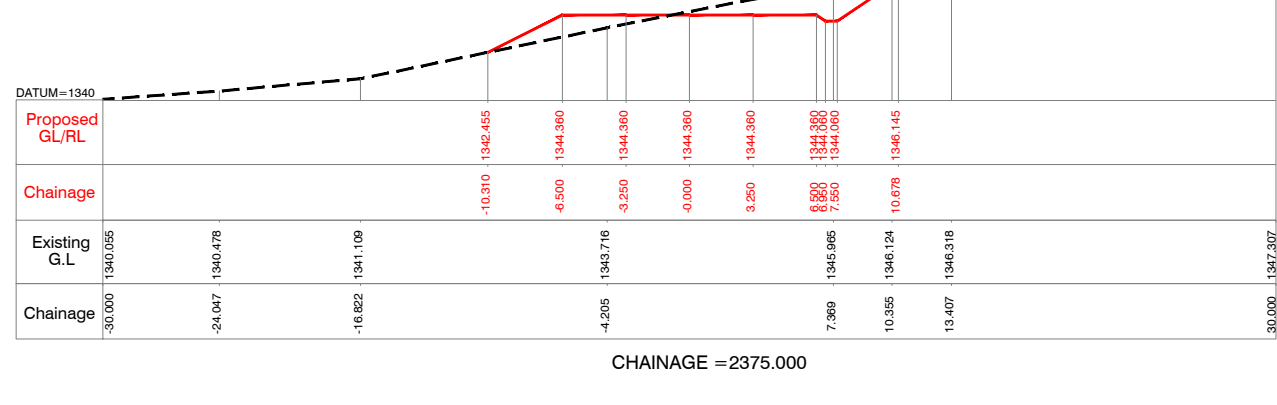
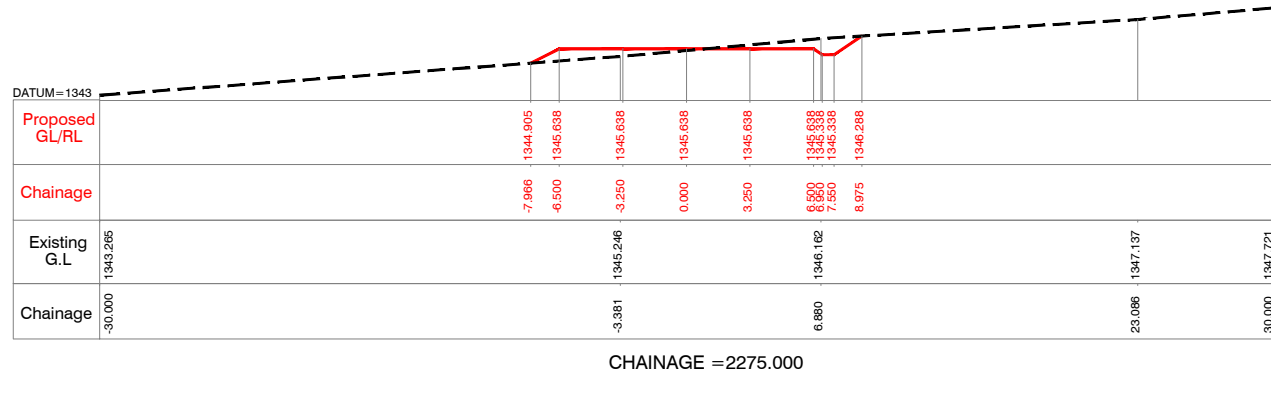
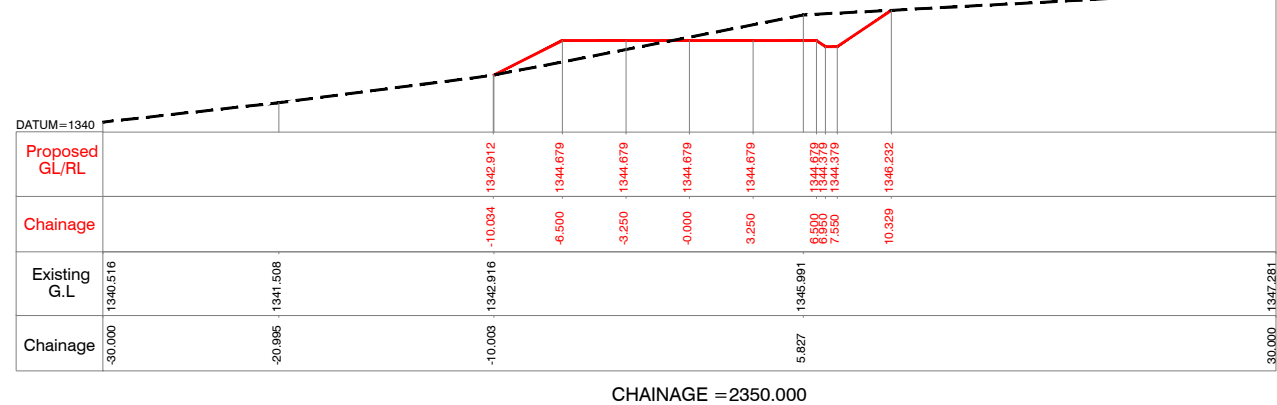
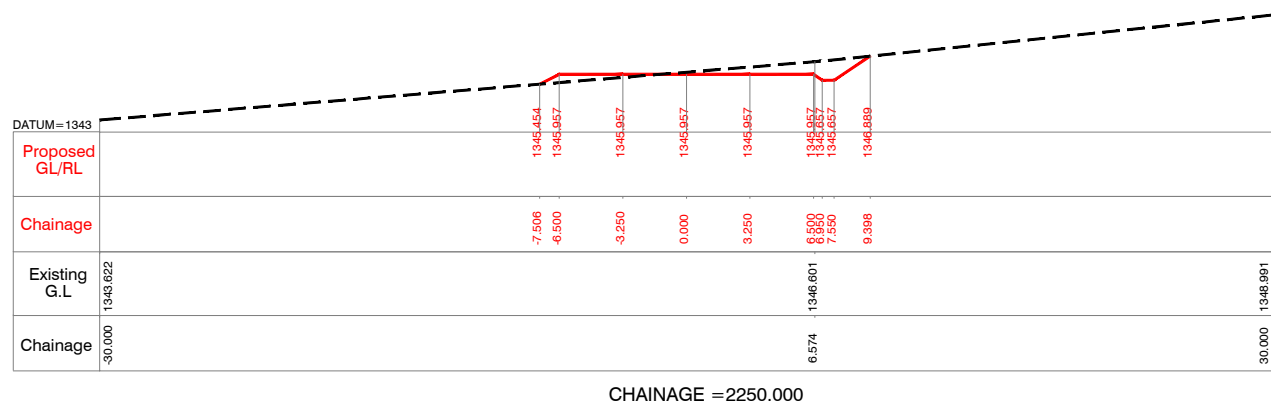
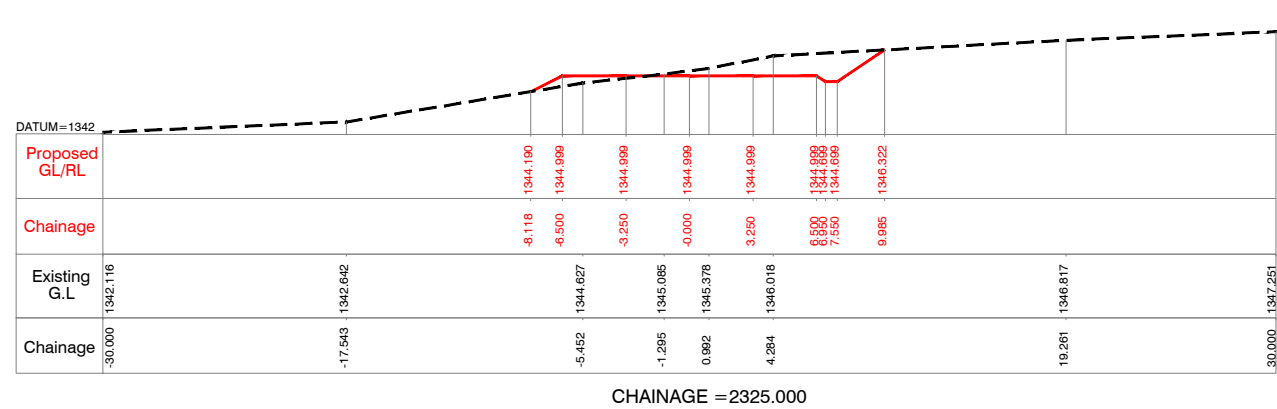
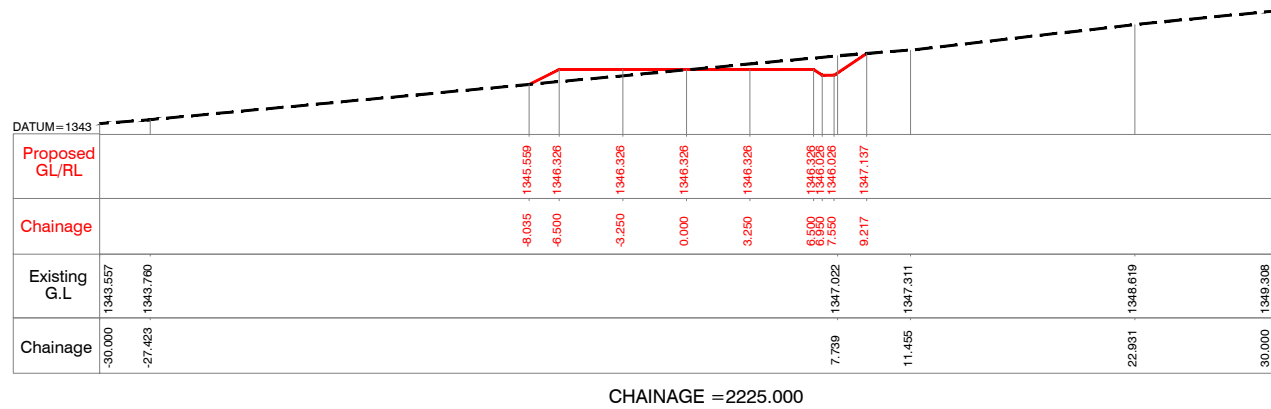
NOTES:-
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 2.025 to @km 2.200

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web: www.aarvee.net



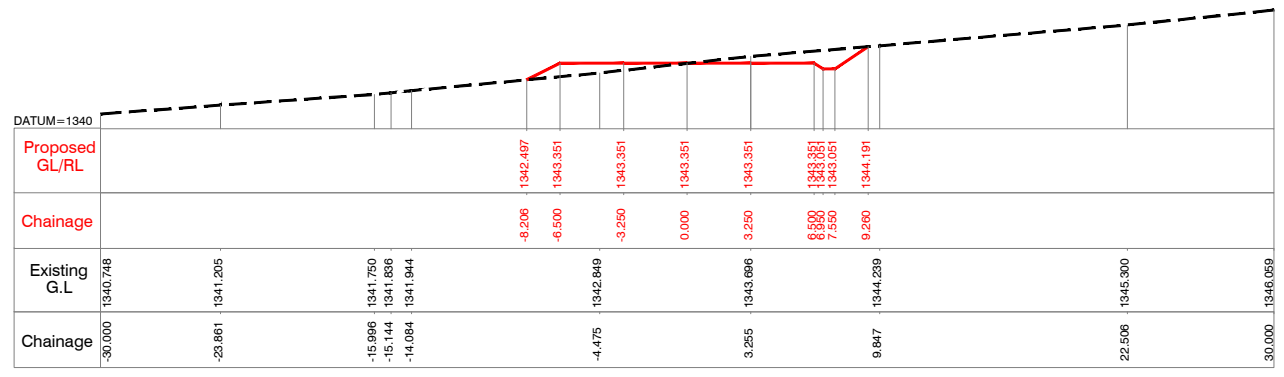
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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

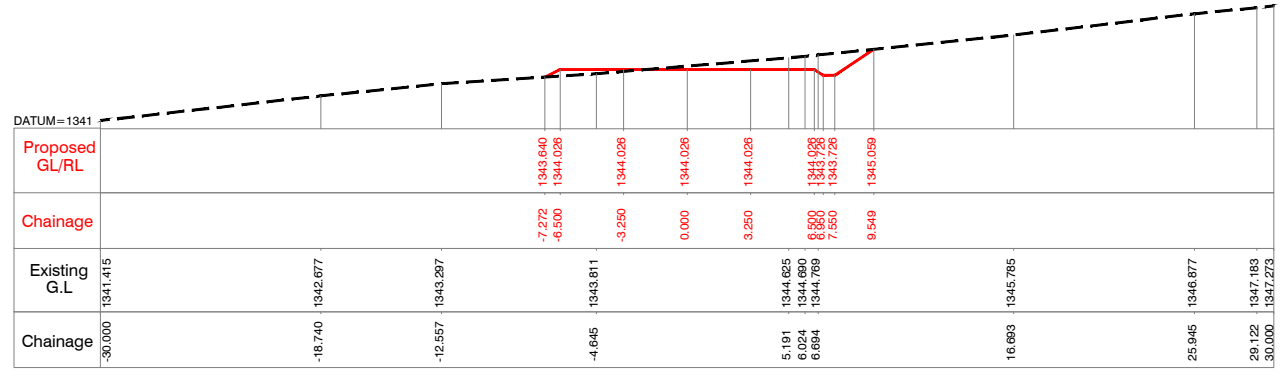
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 2.225 to @km 2.400

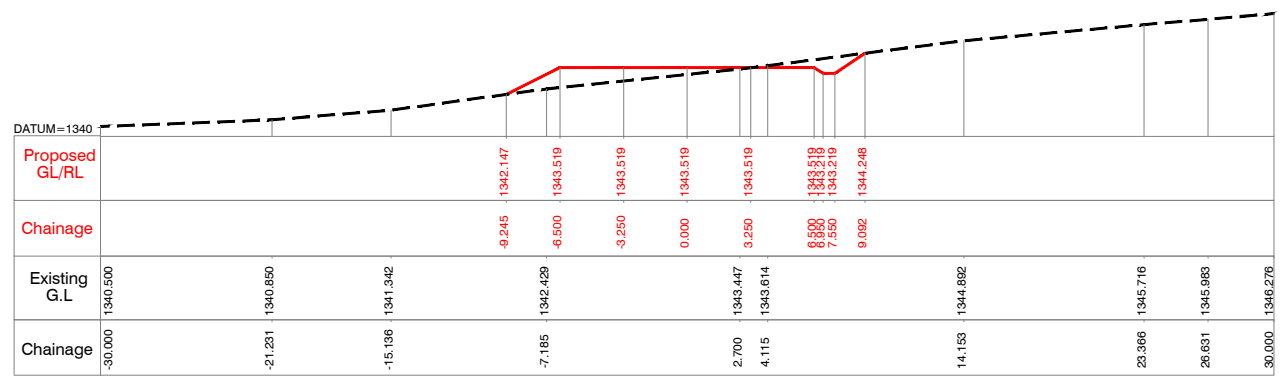
Consultants : **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
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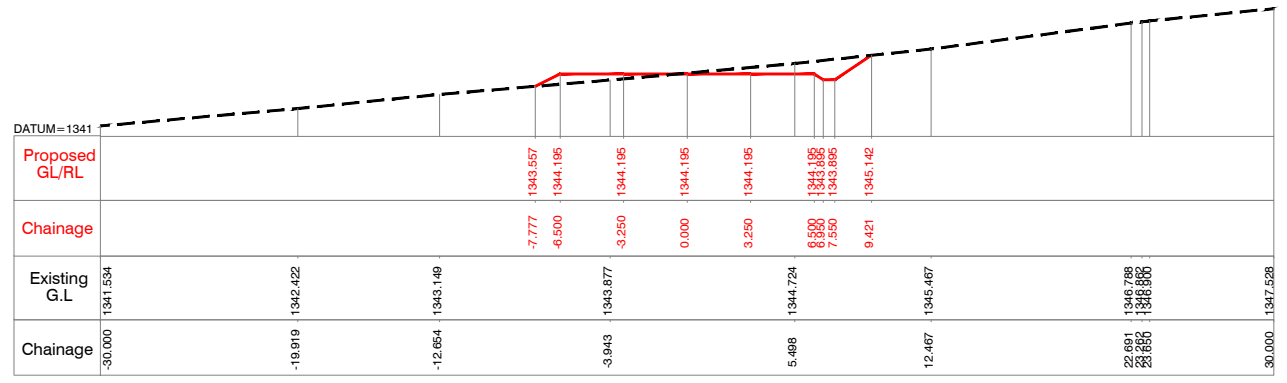
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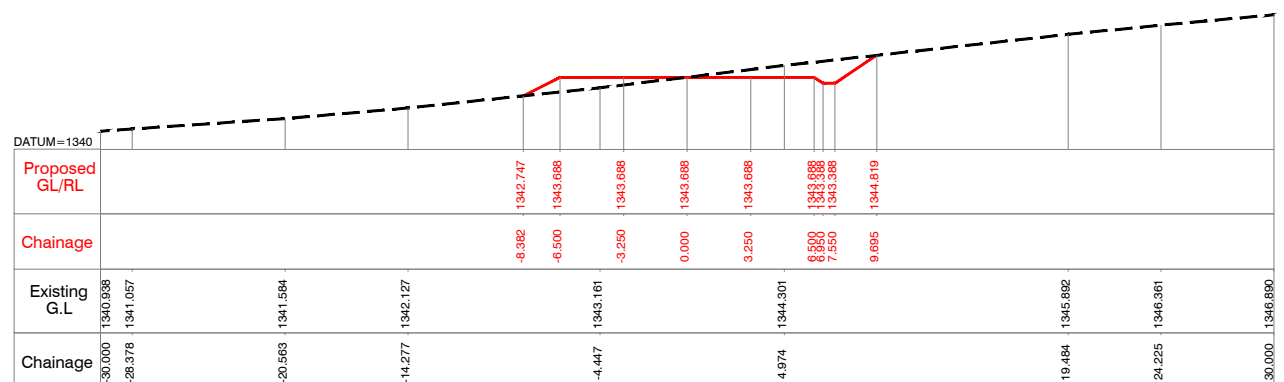
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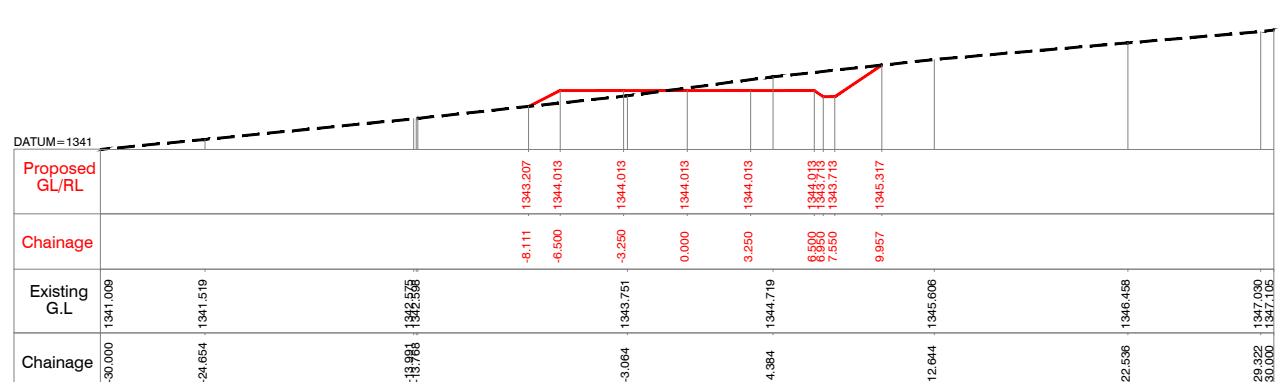
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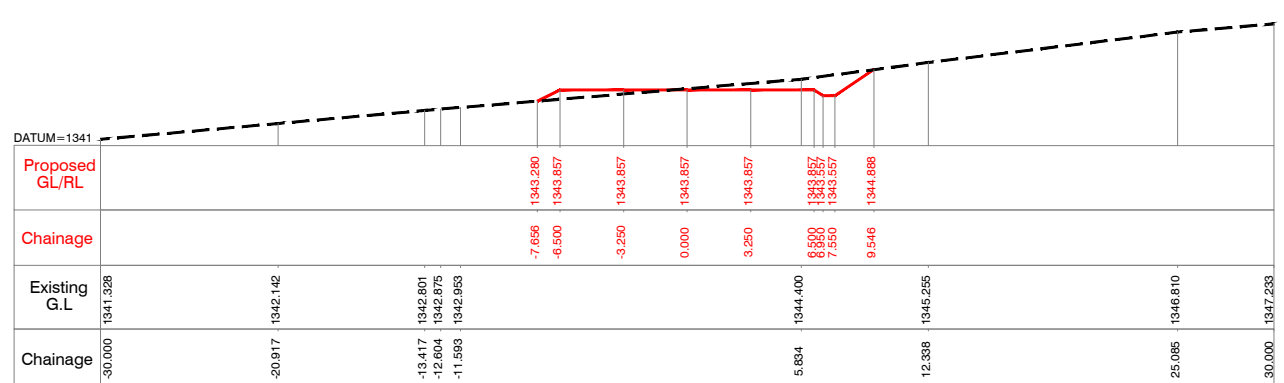
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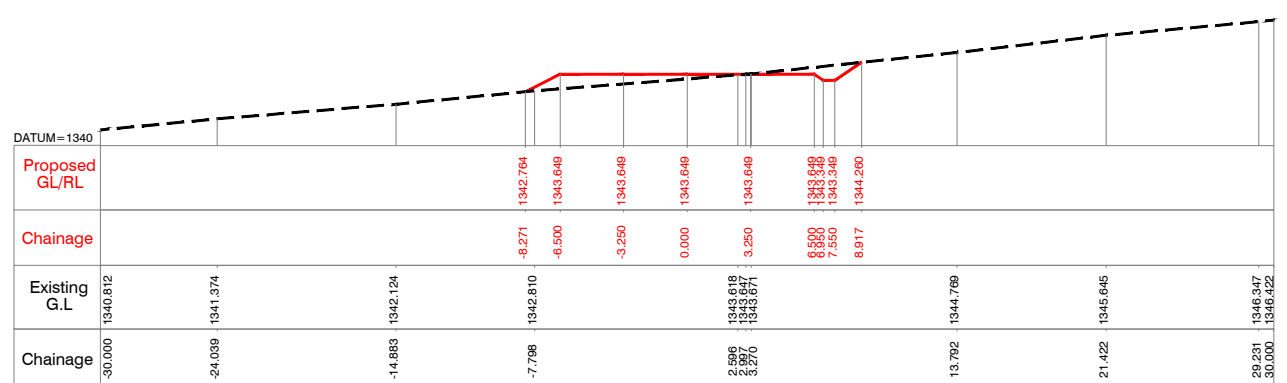
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CHAINAGE = 2600.000

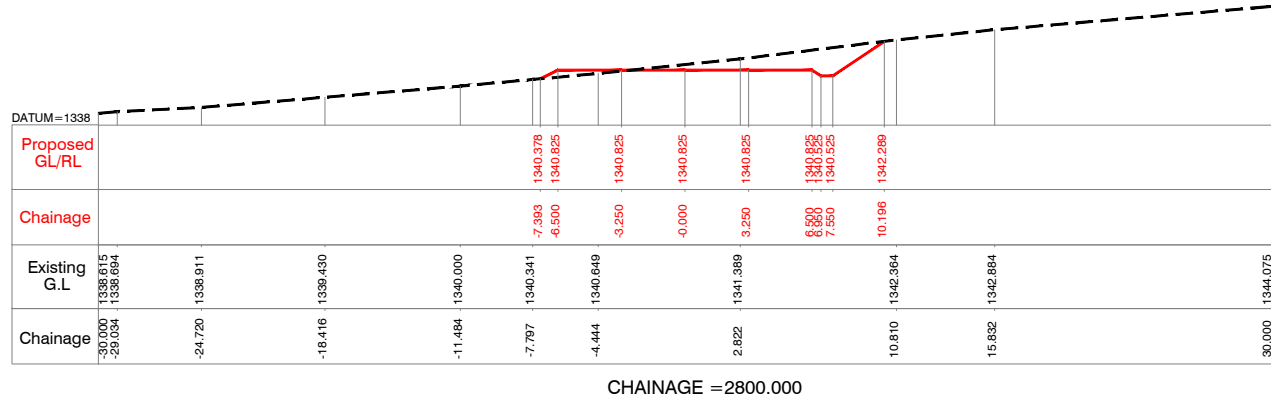
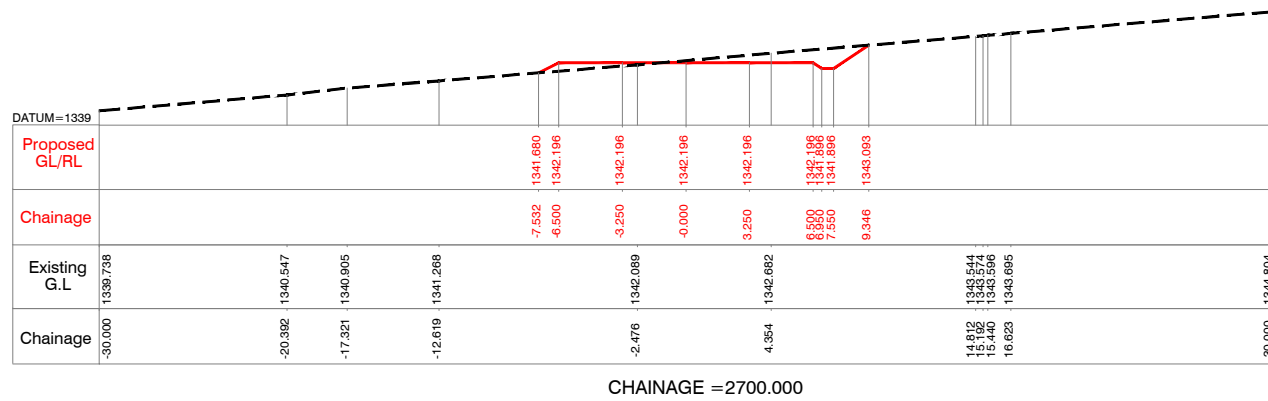
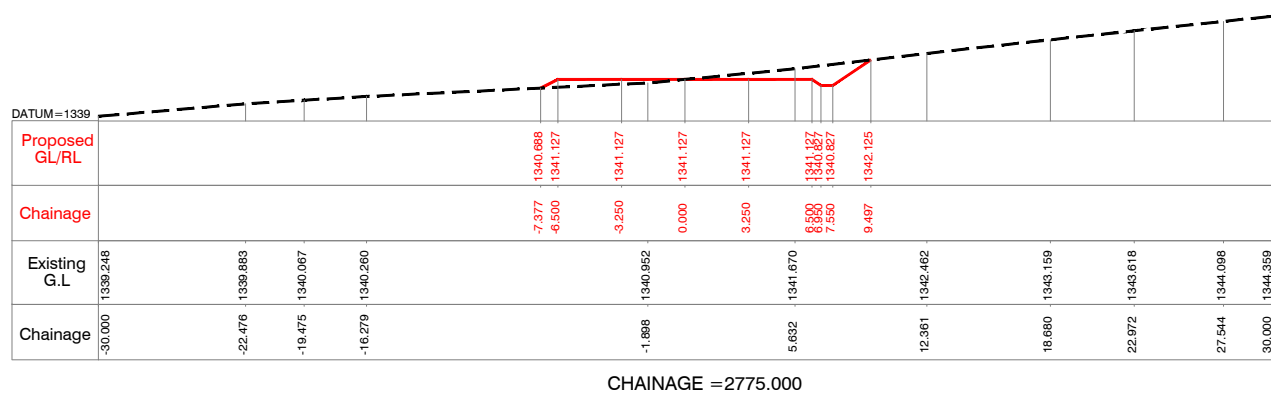
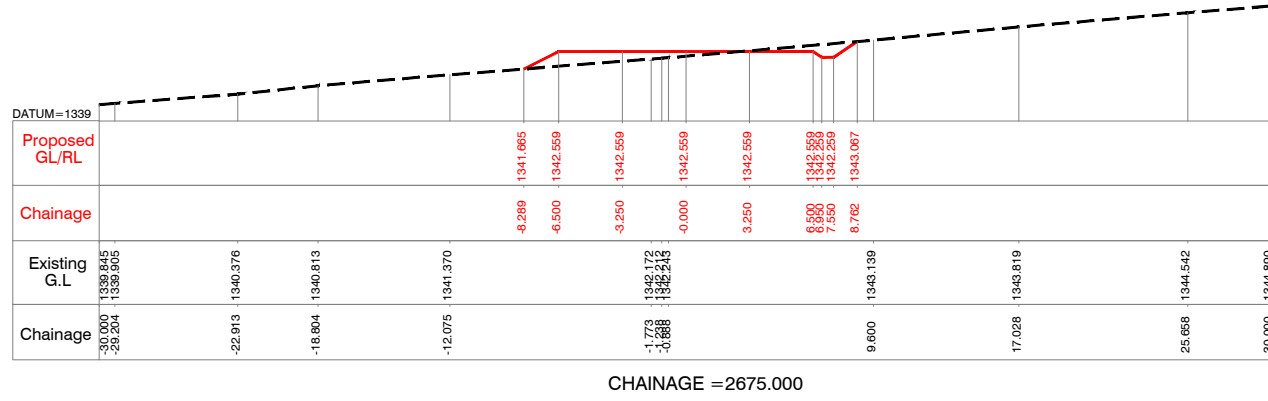
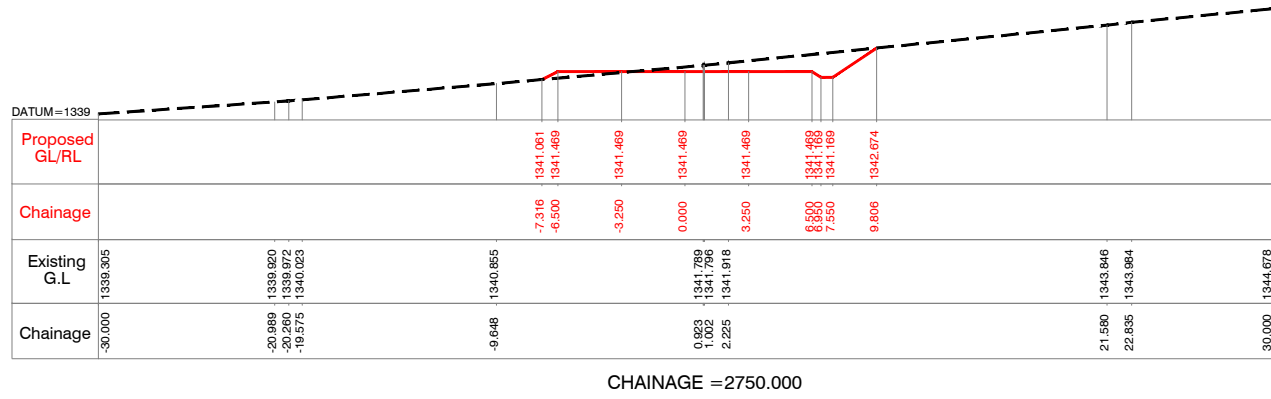
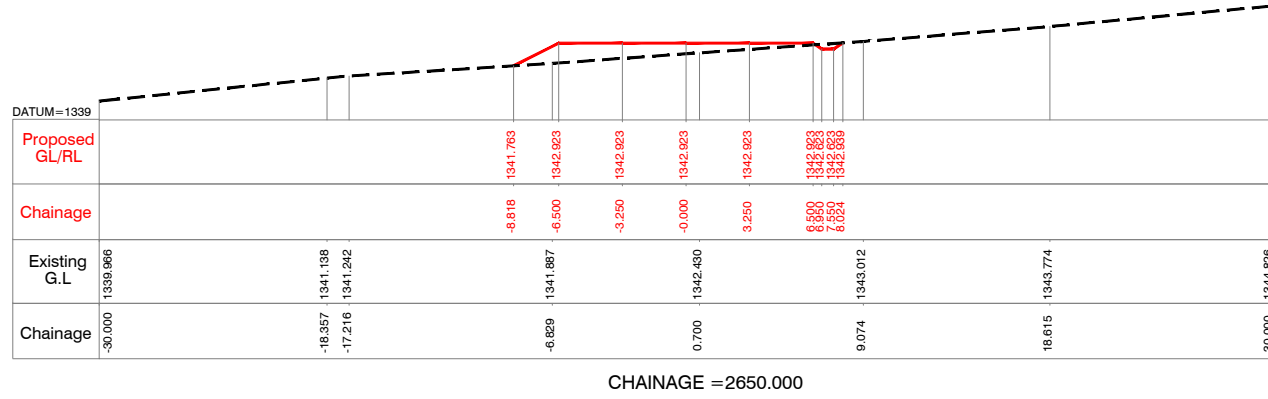
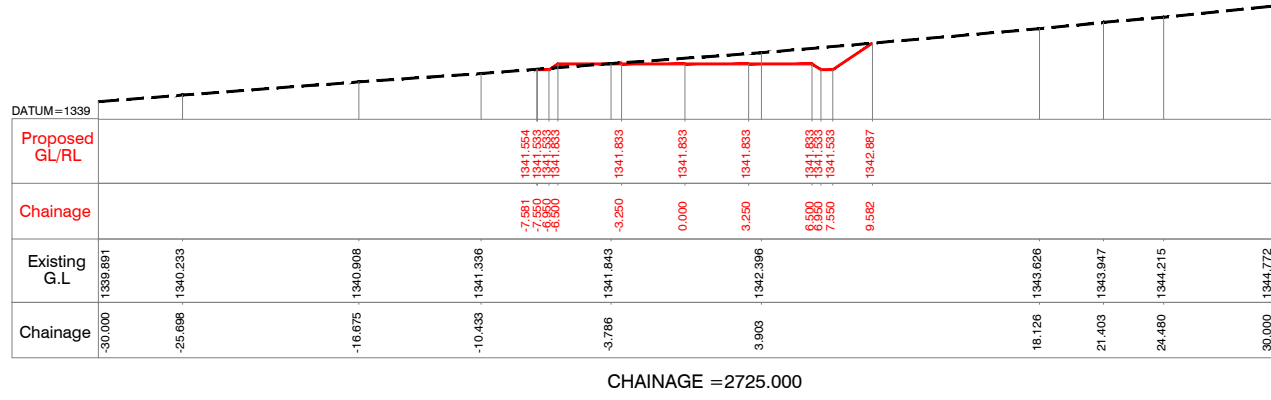
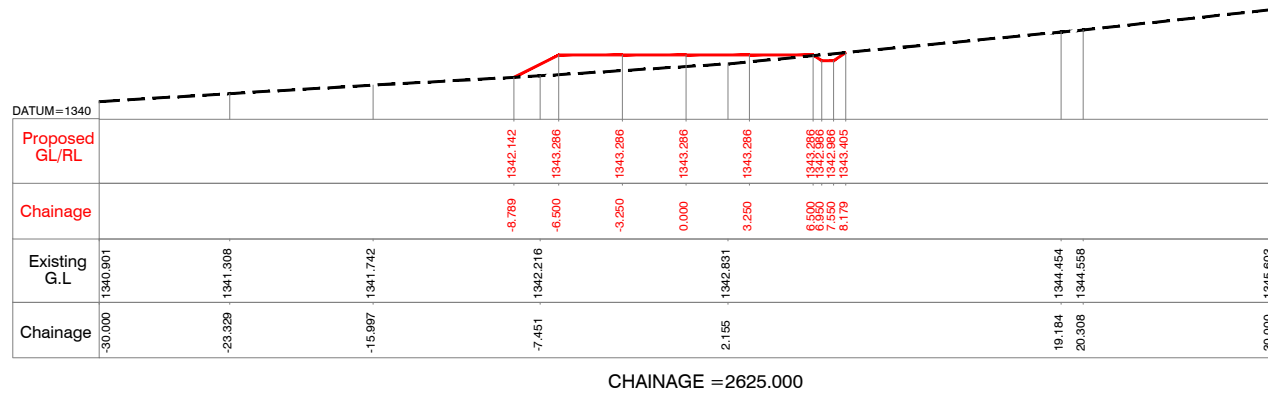
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGH SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 2.425 to @km 2.600

Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Sanganigala Colony Main Rd., Hyderabad-52, India.
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net, web:www.aarvee.net



NOTES:-

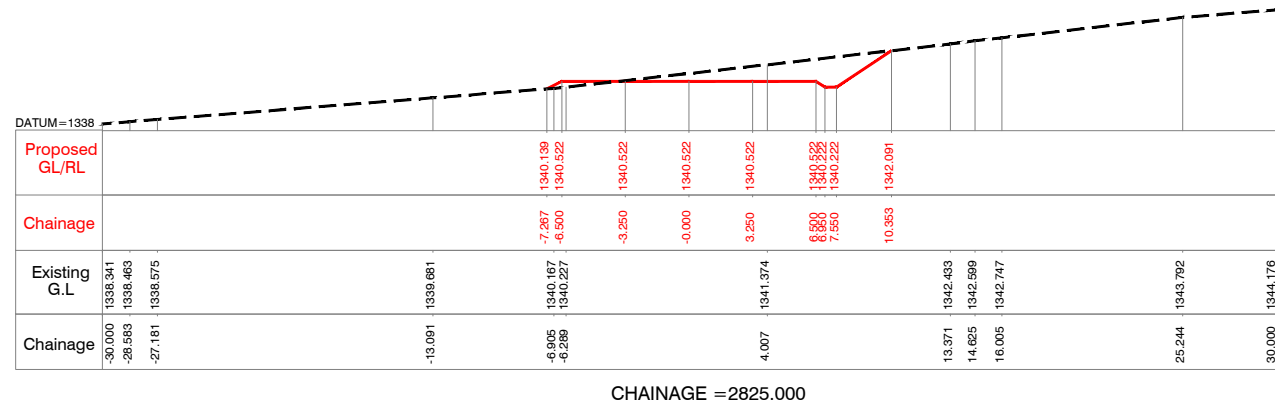
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

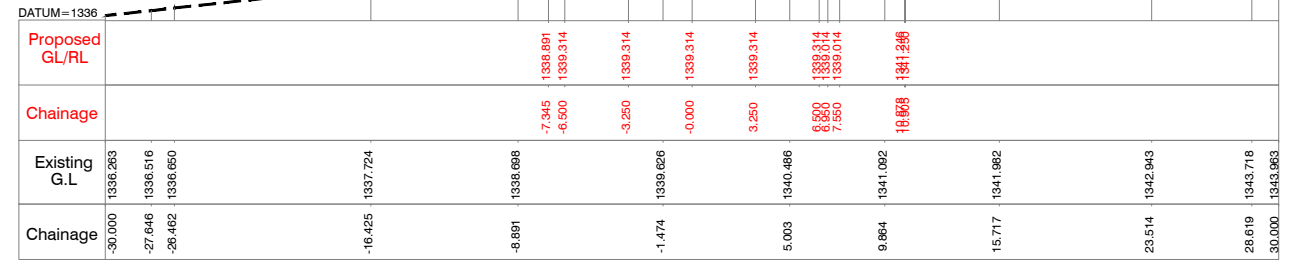
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 2.625 to @km 2.800

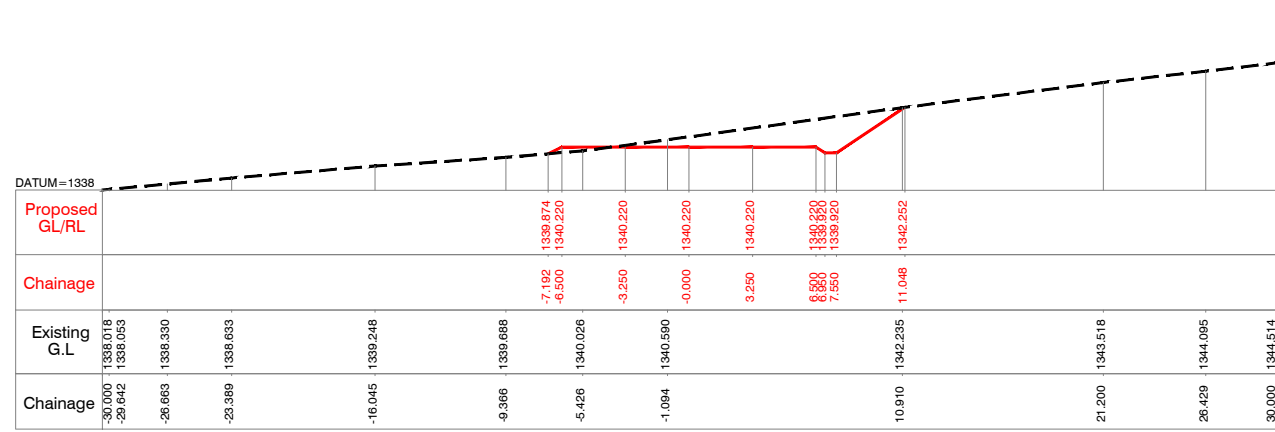
Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Ravula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737833; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net



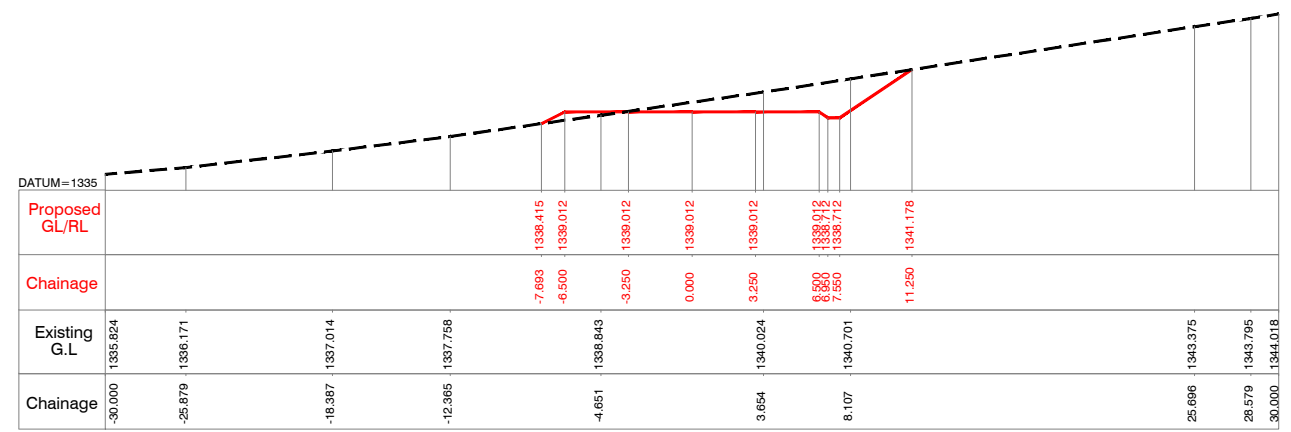
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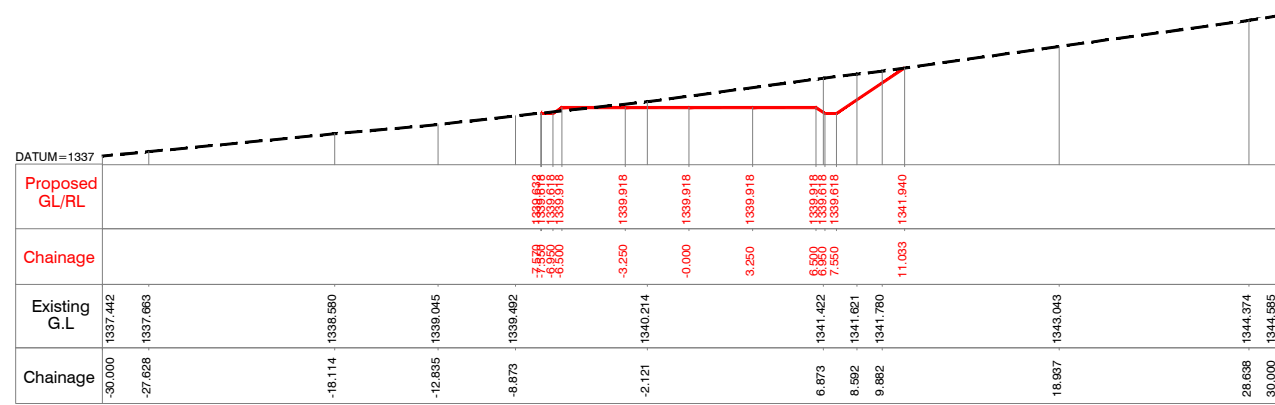
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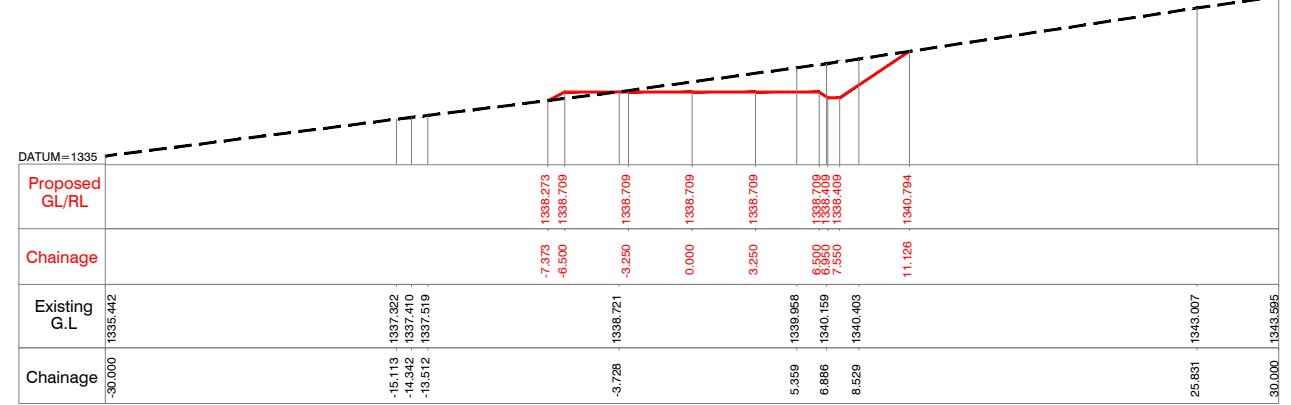
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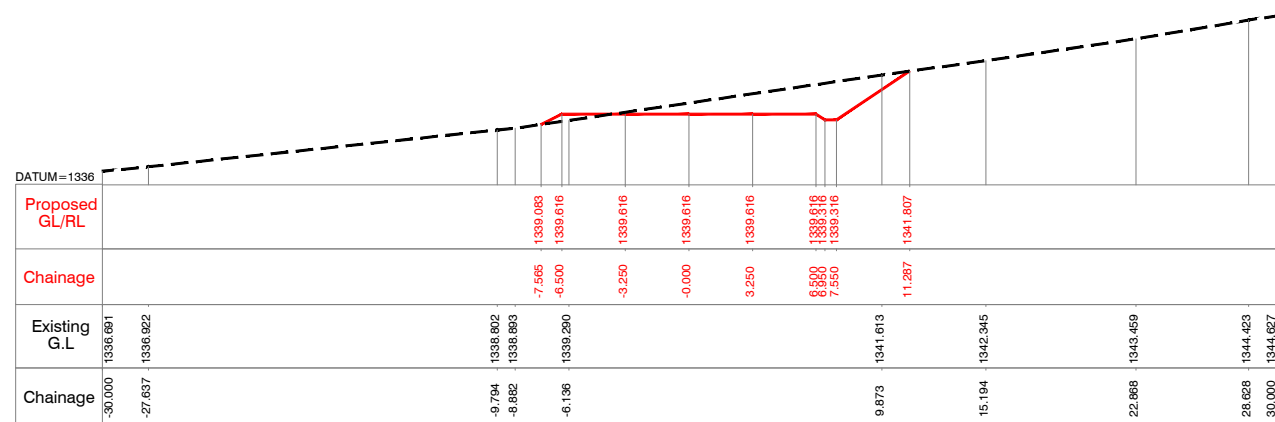
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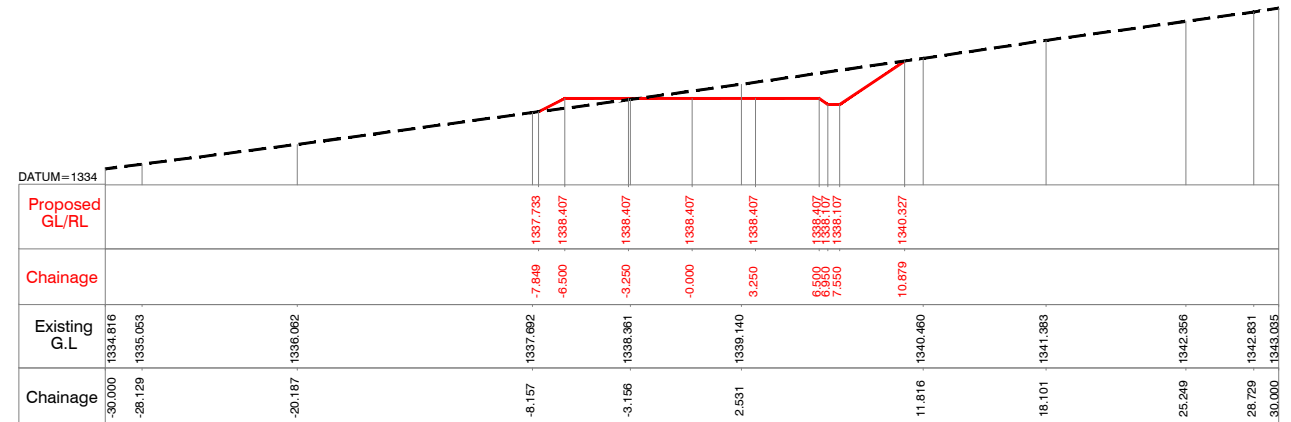
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CHAINAGE = 2975.000



CHAINAGE = 2900.000



CHAINAGE = 3000.000

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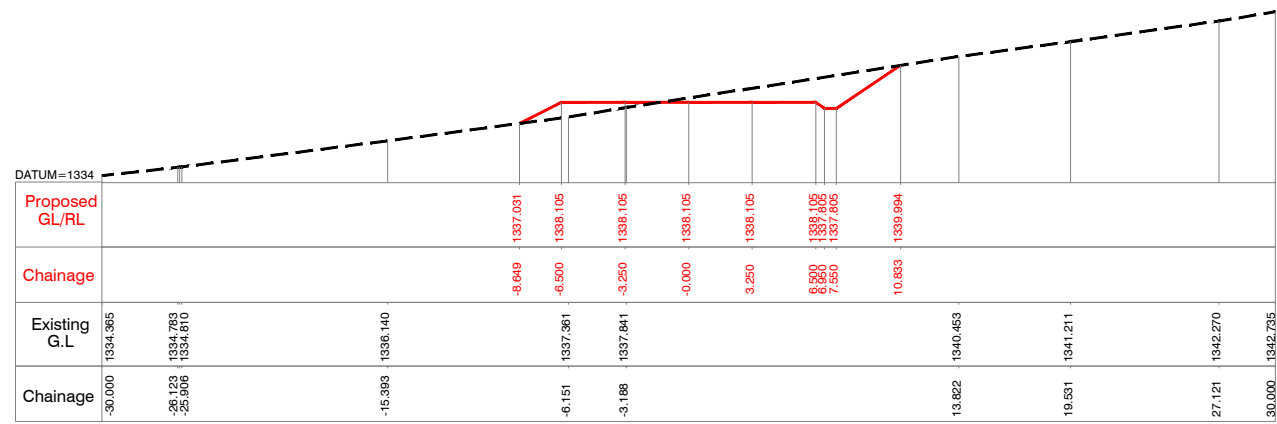
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

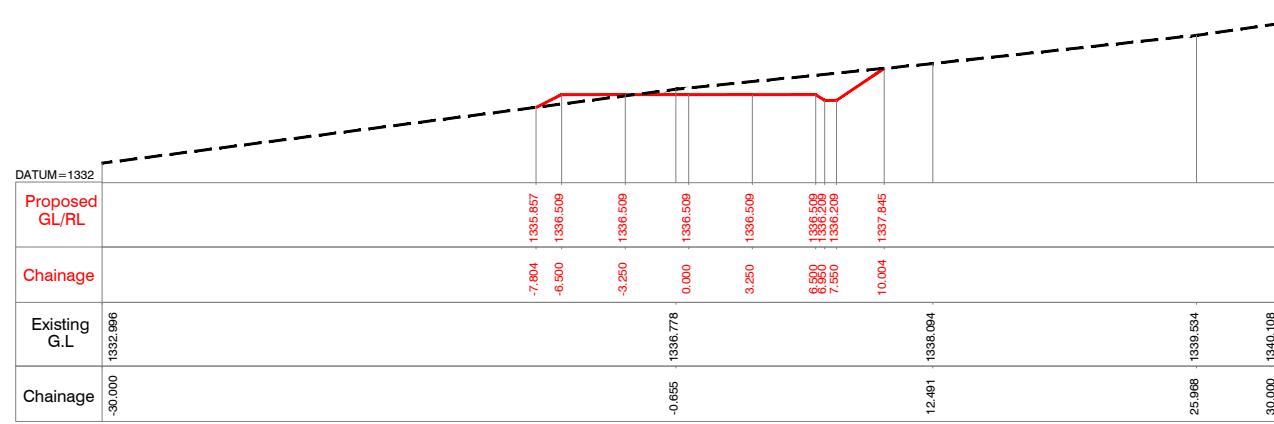
Project : **KABUYANDA IRRIGATOR SCHEME**

Title : **RIGH SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 2.825 to @km 3.000

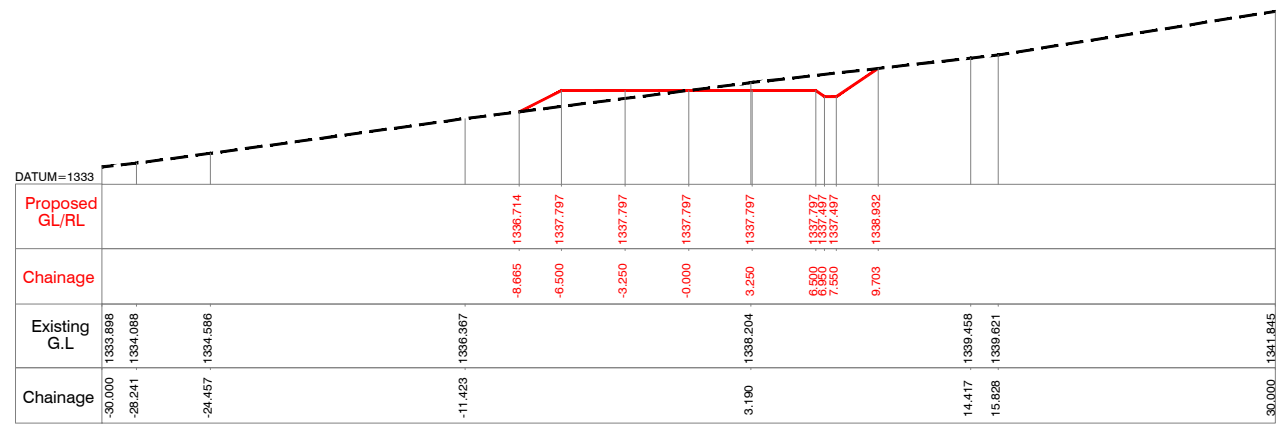
Consultants :
aarvee associates
 architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-2373633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



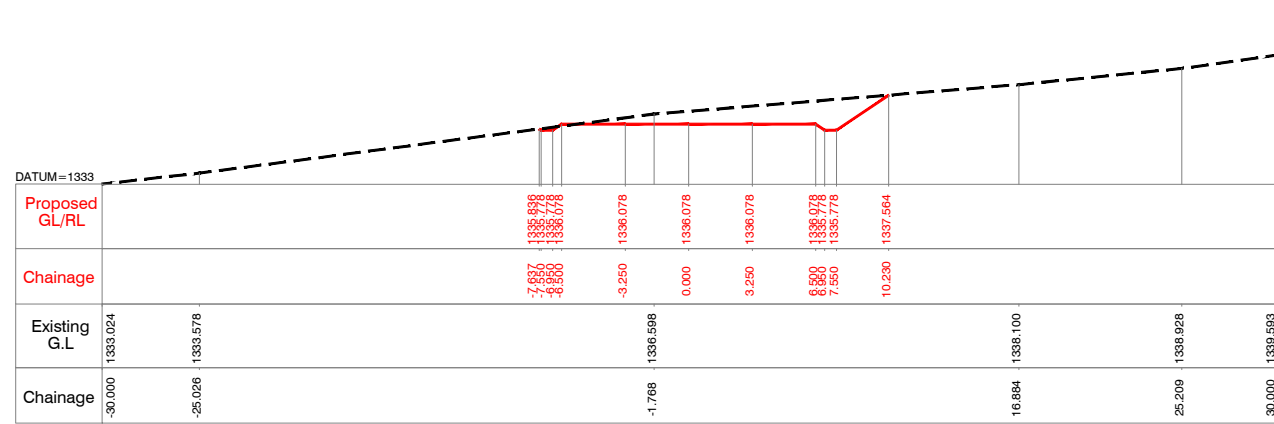
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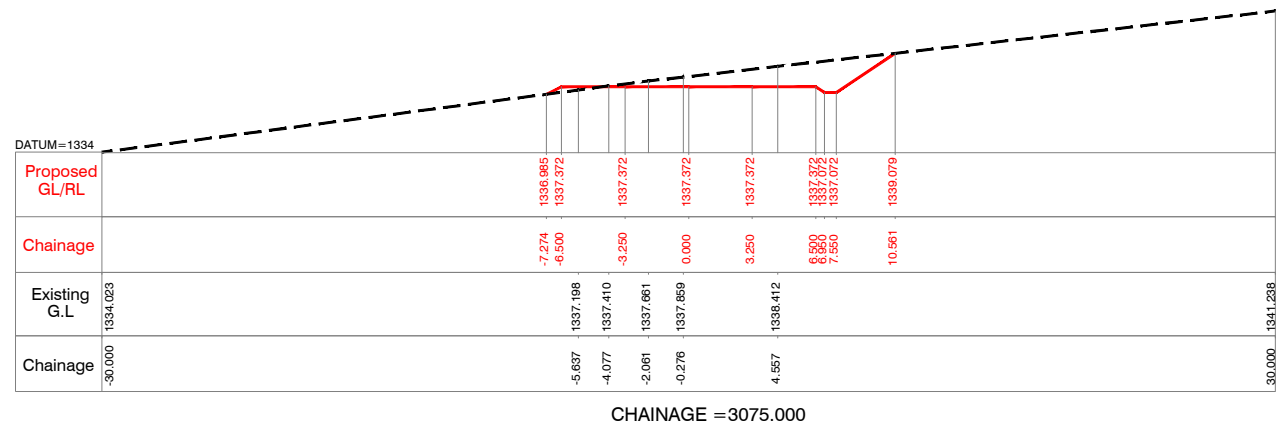
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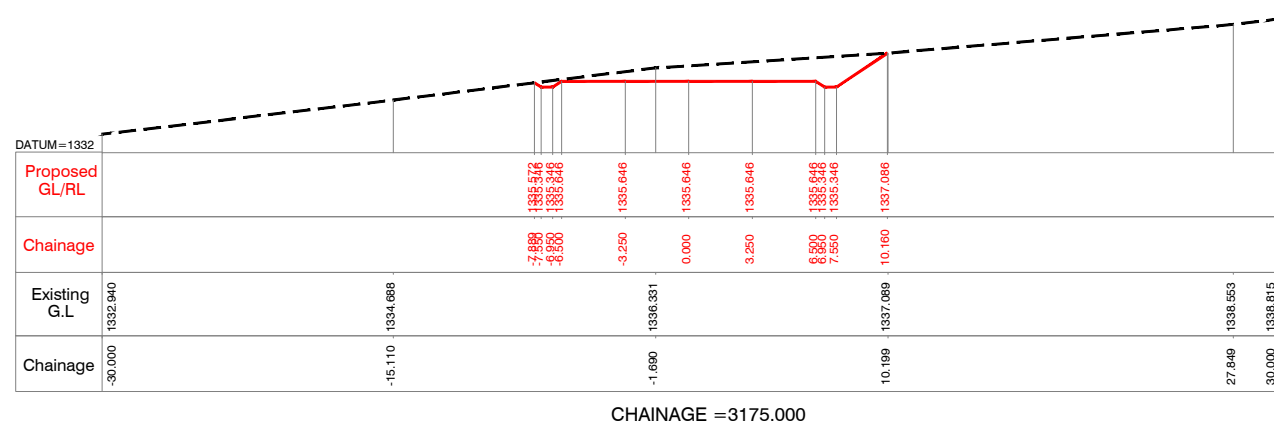
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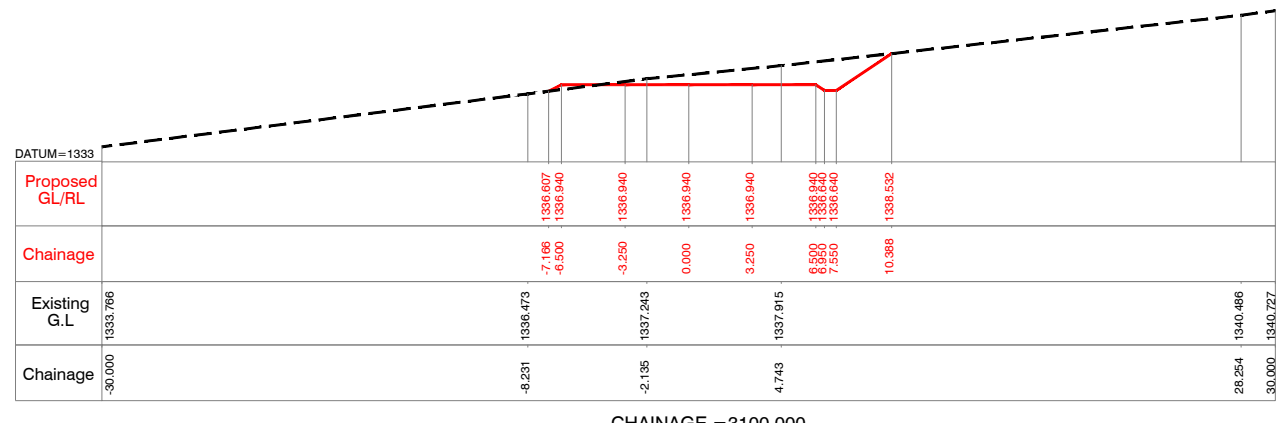
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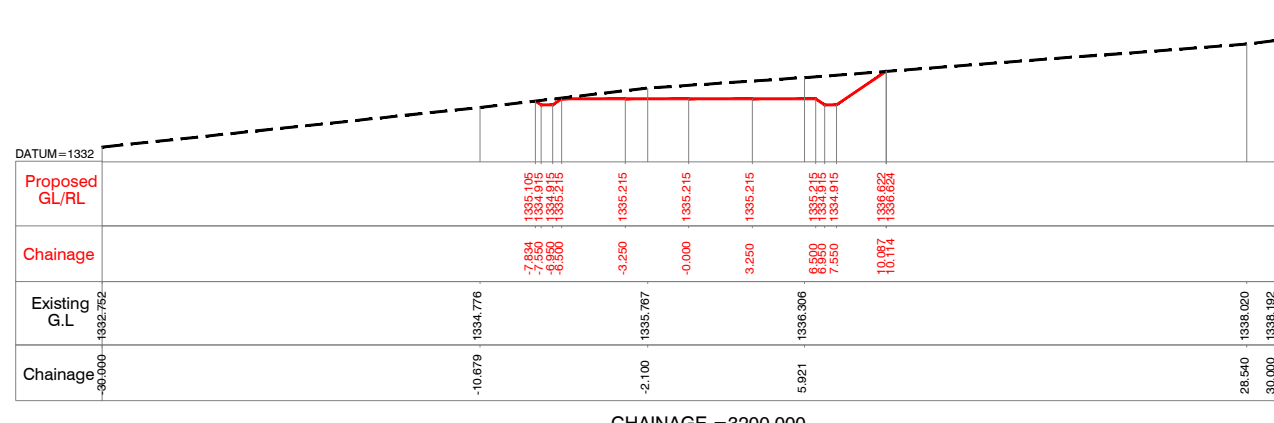
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CHAINAGE = 3100.000




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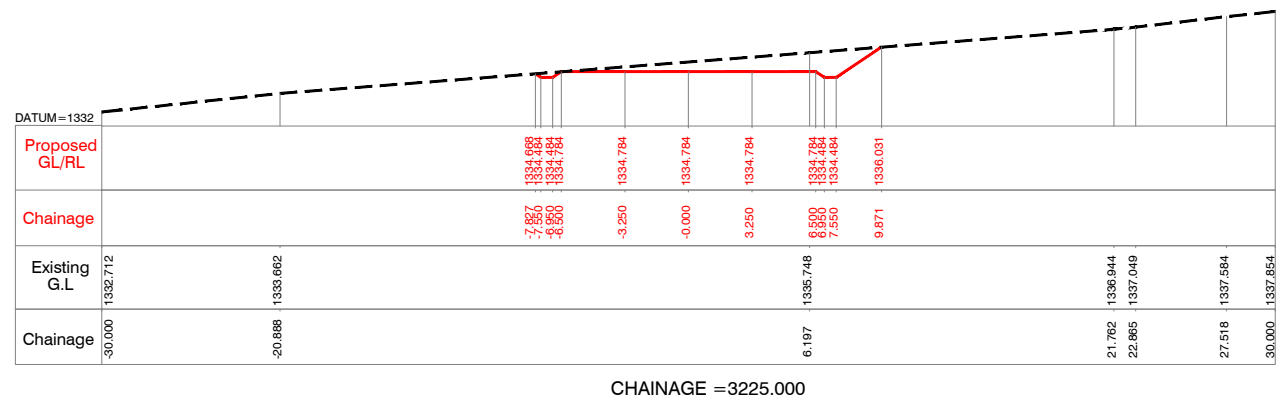
NOTES:-
 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

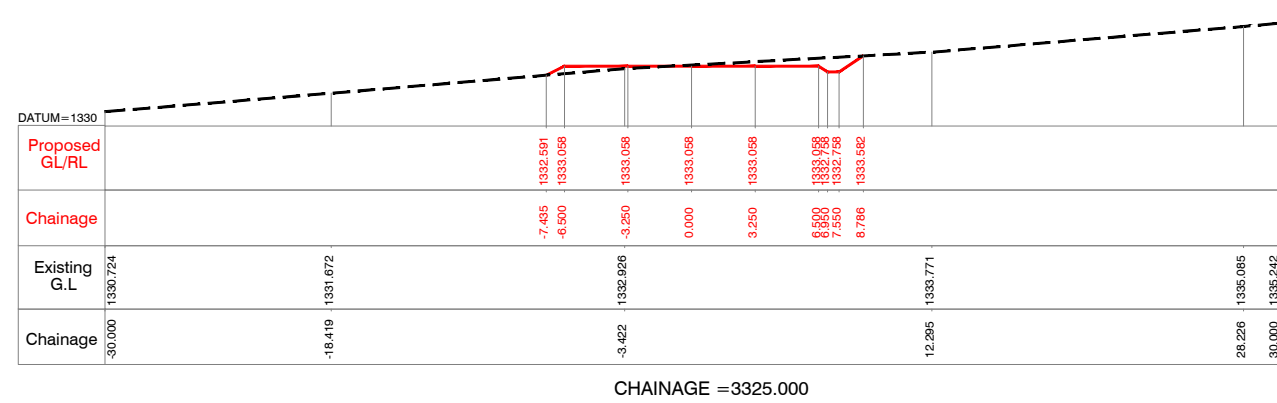
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 3.025 to @km 3.200

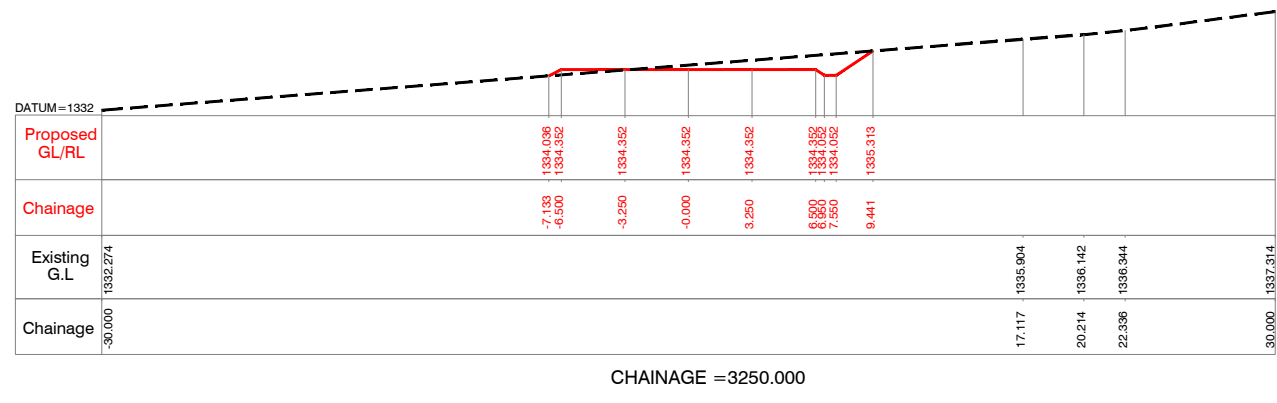
Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
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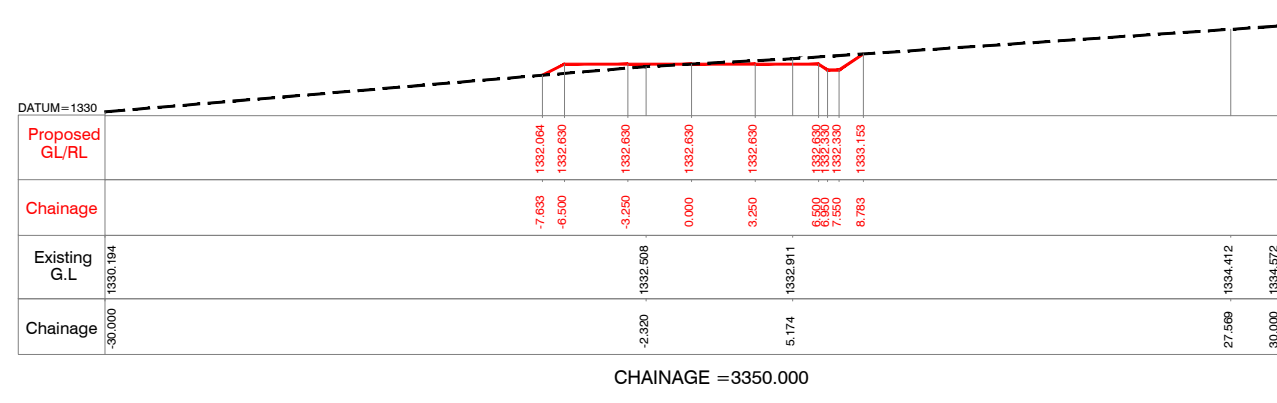
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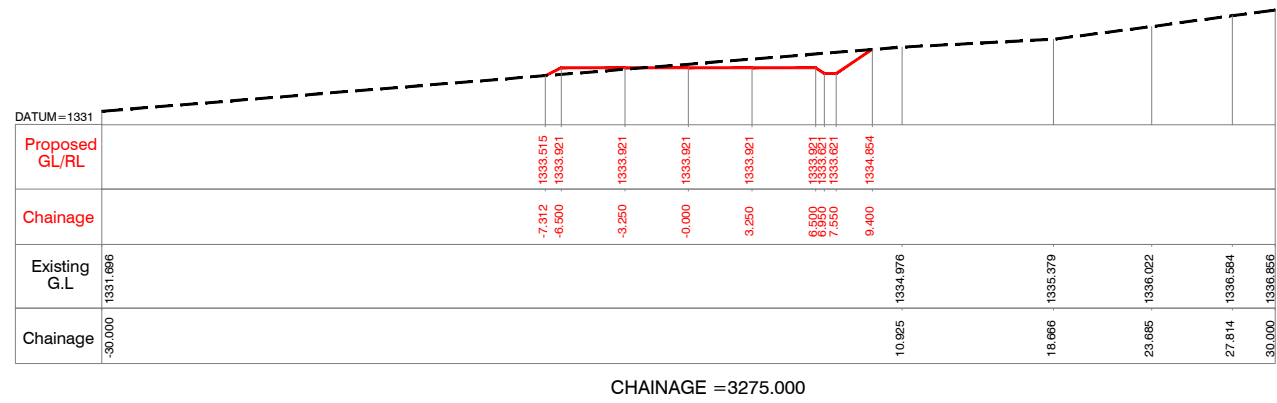
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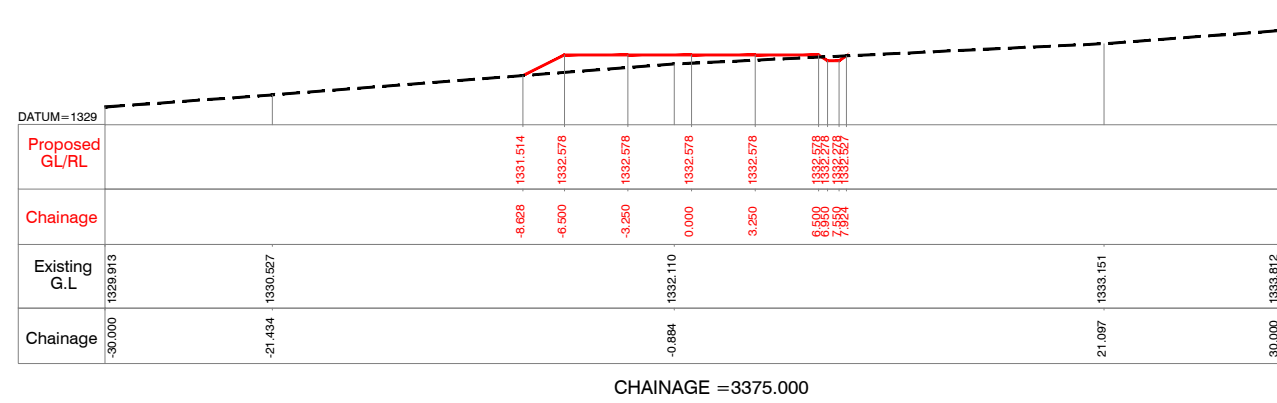
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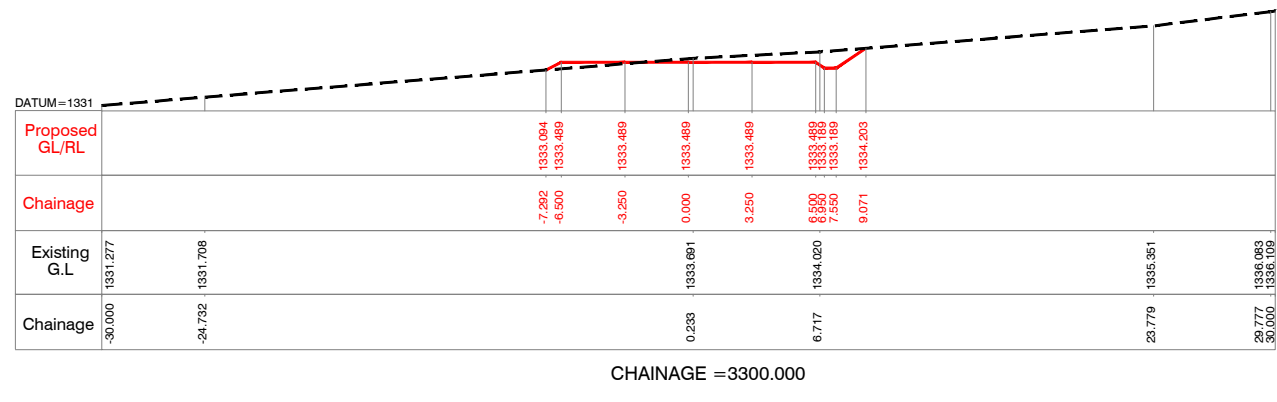
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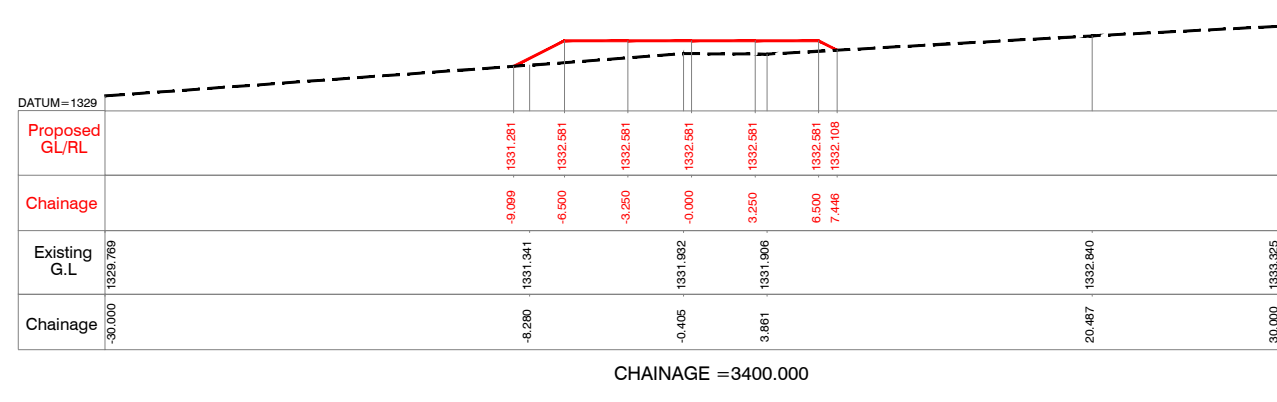
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CHAINAGE = 3300.000



CHAINAGE = 3400.000

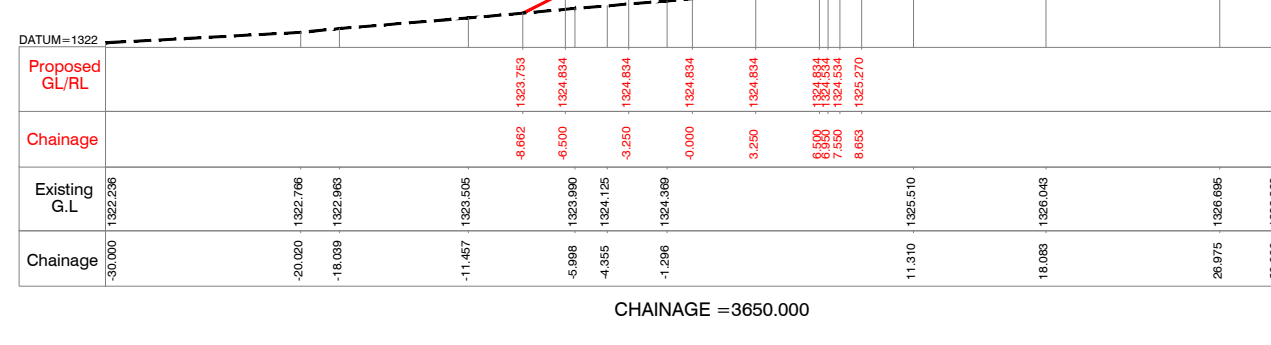
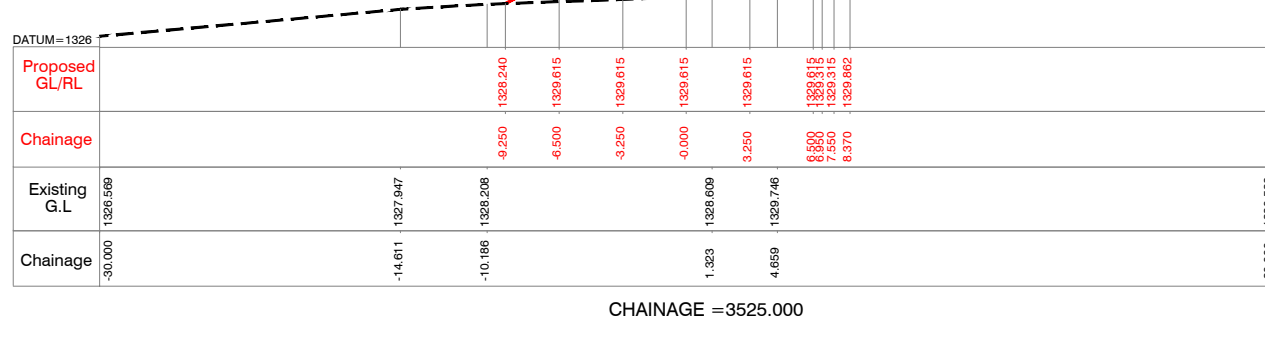
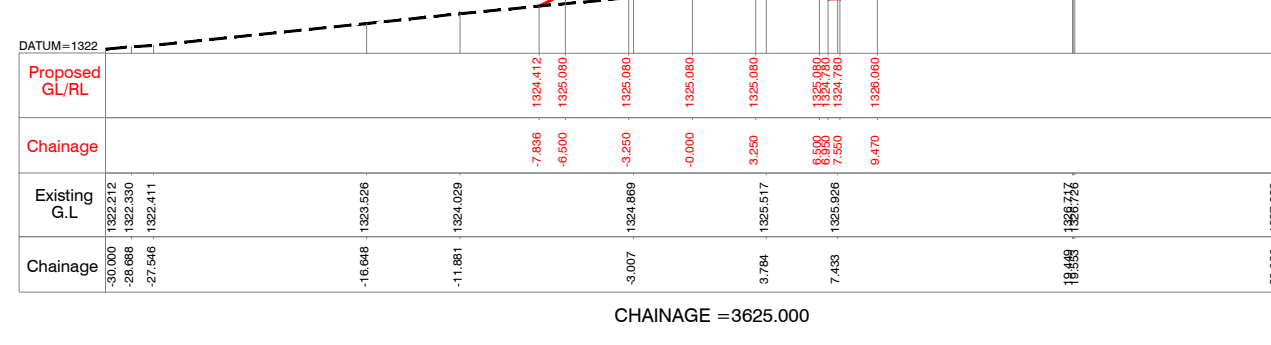
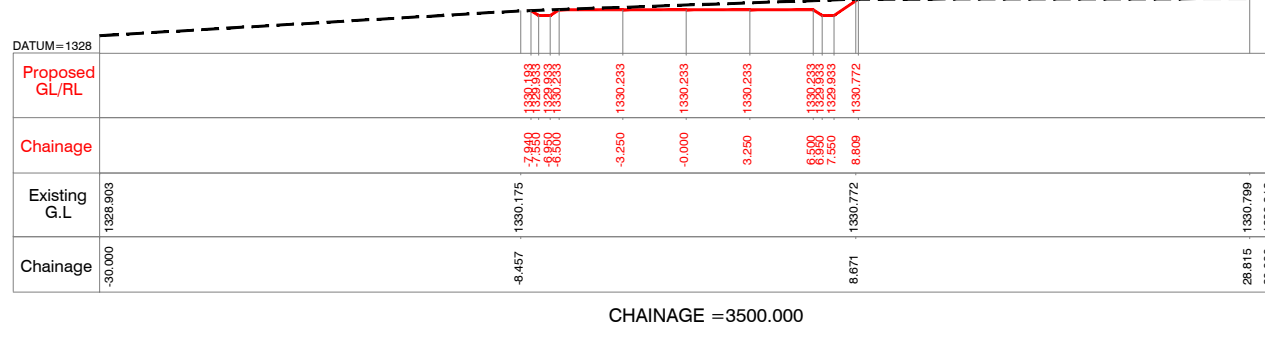
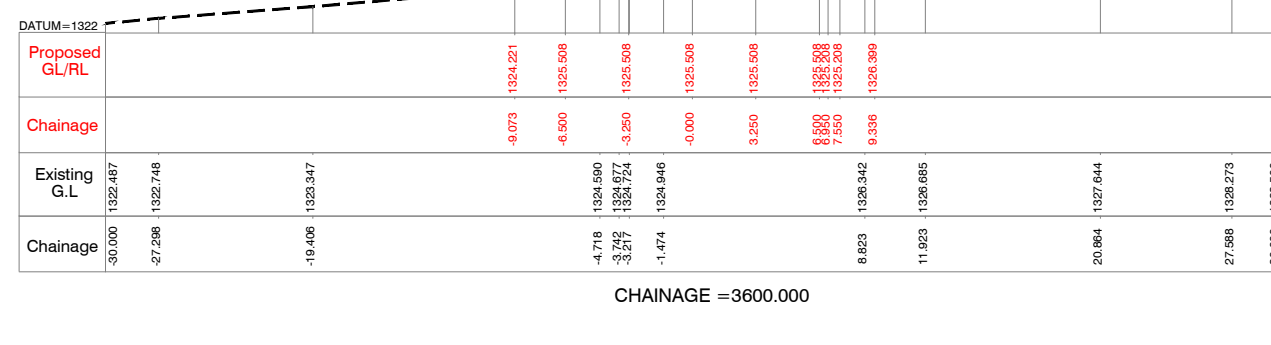
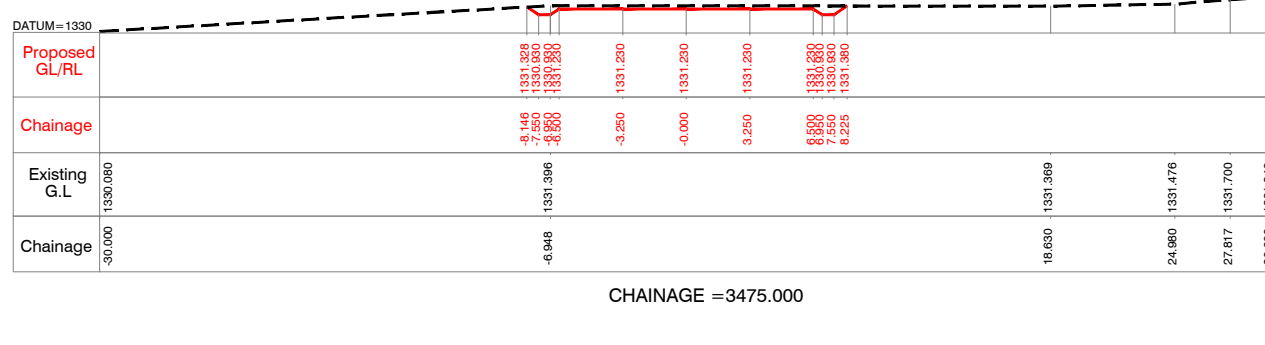
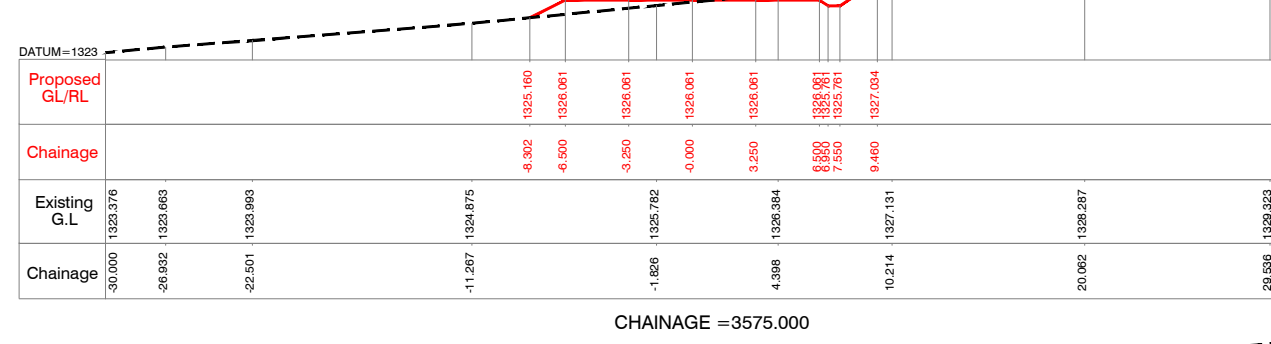
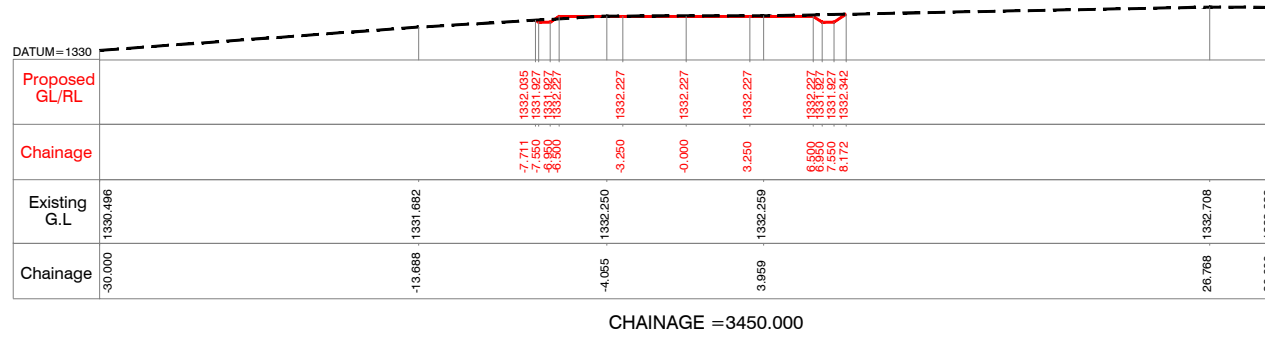
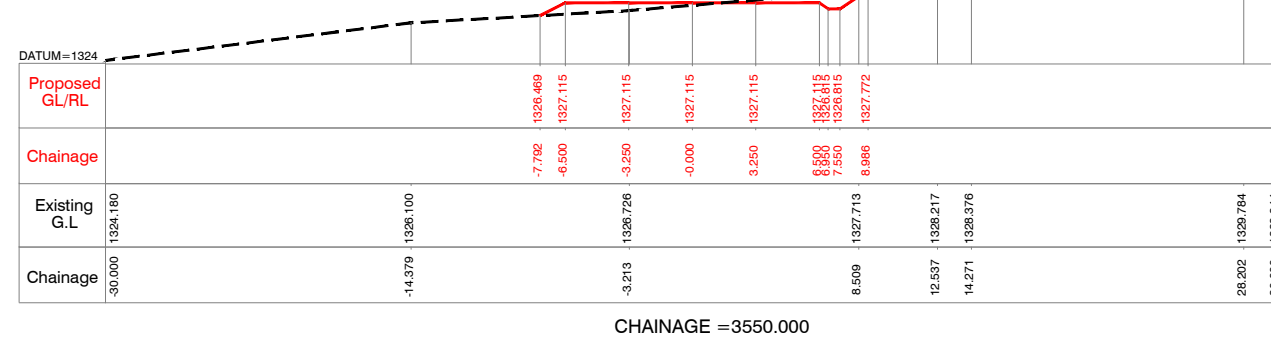
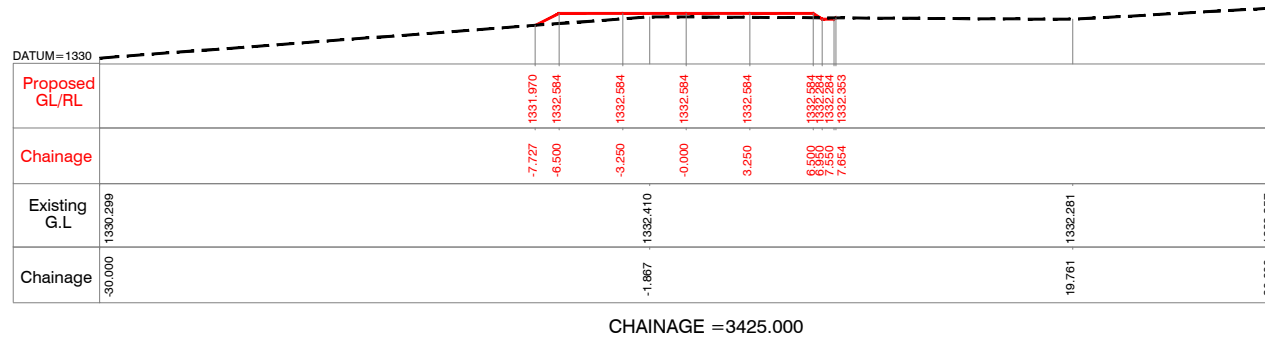
NOTES:-
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Client : REPUBLIC OF UGANDA
 MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : RIGTH SIDE ACCESS ROAD FROM DAM SITE
 CROSS SECTION
 @km 3.225 to @km 3.400

Consultants :
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



NOTES:-

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- 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

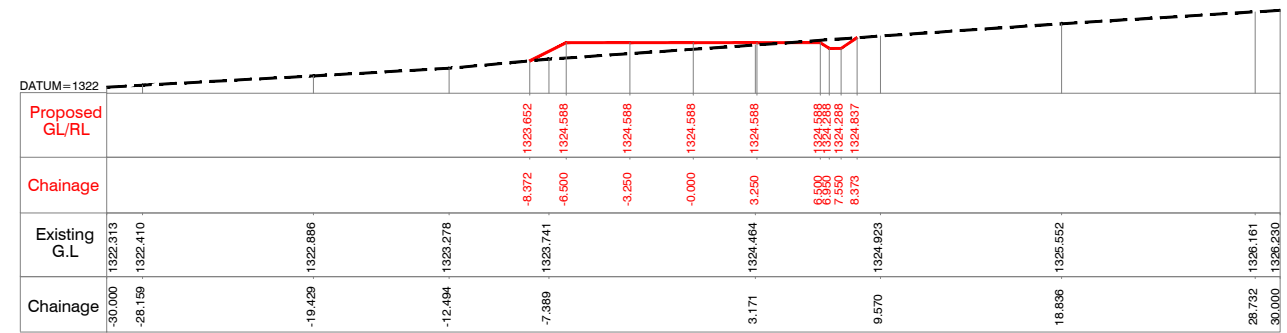
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

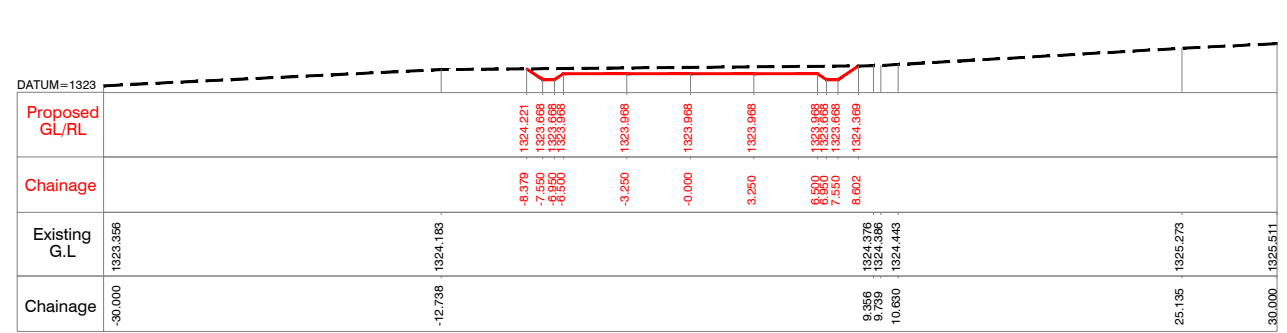
Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 3.425 to @km 3.650

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Prashanti, Saranga Colony Main Rd., Hyderabad-52, India
Tel: +91-40-23737633; Fax: +91-4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

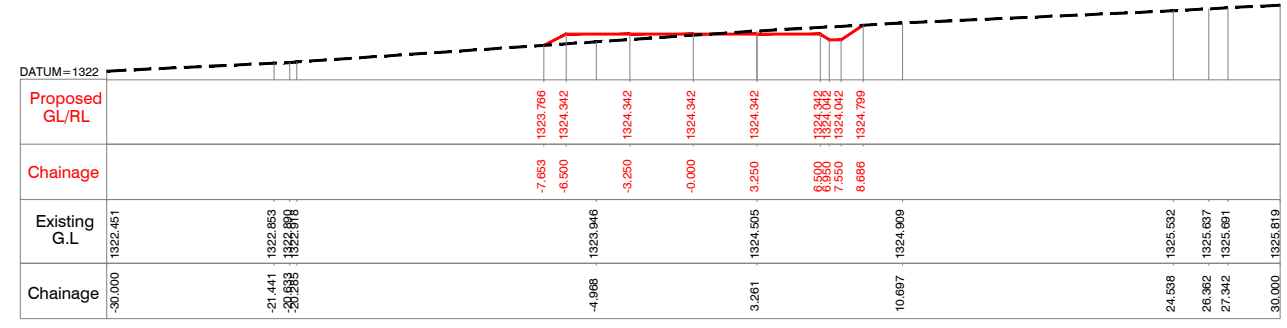
Drg. No. AA/IRR/2238/KIS/RAR/CS/01 | 21 of 30 | Date | 17-08-2019



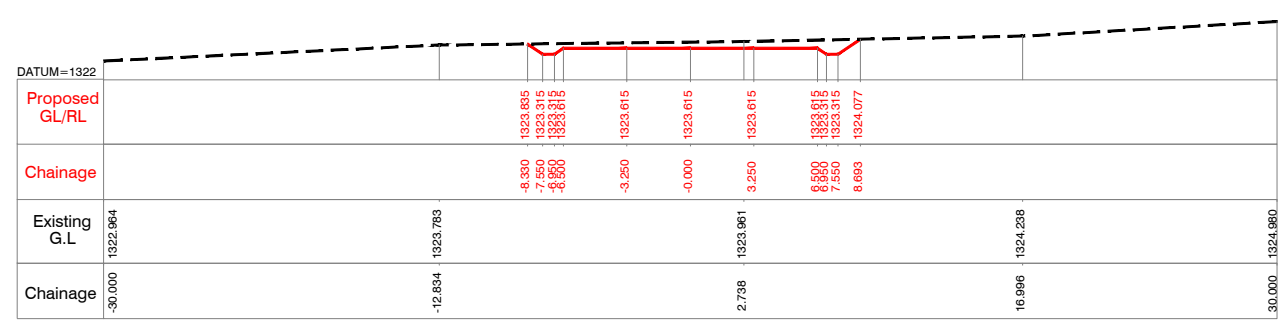
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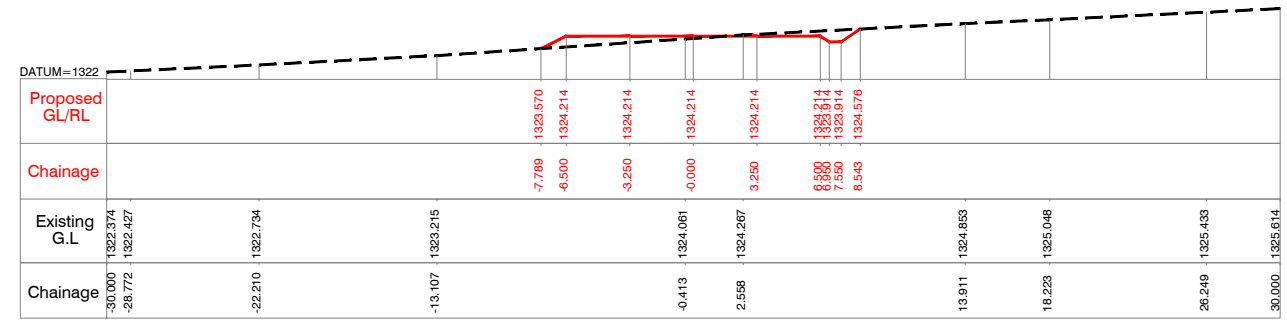
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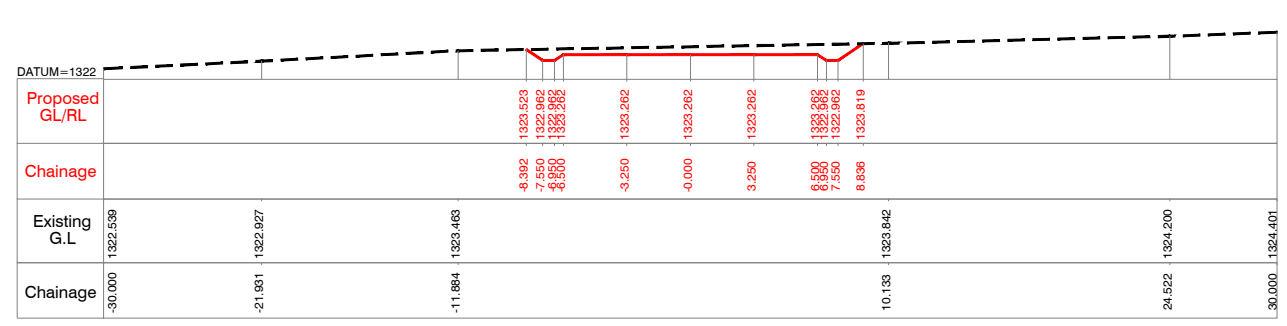
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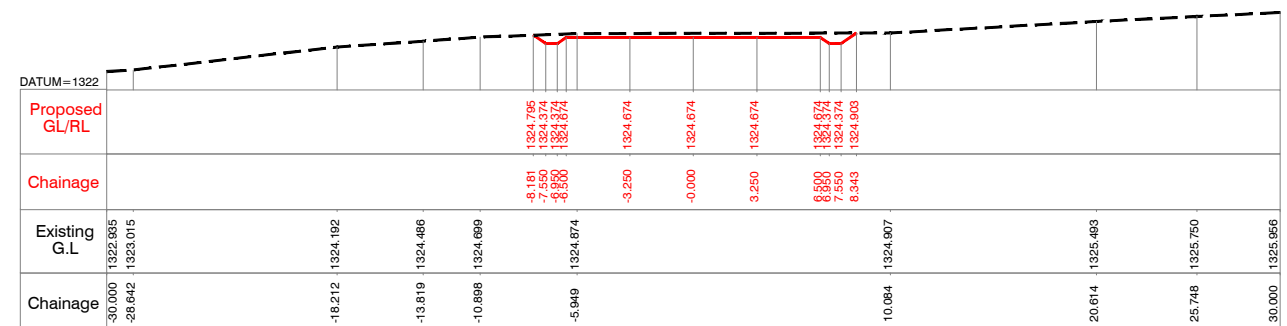
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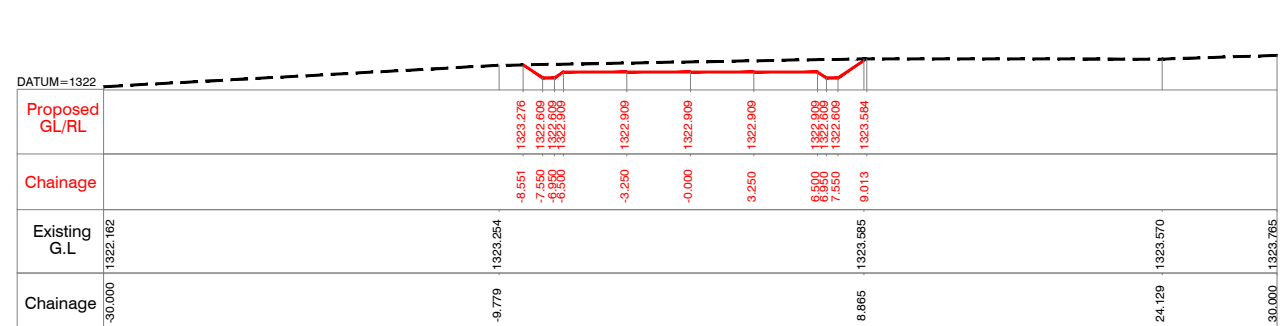
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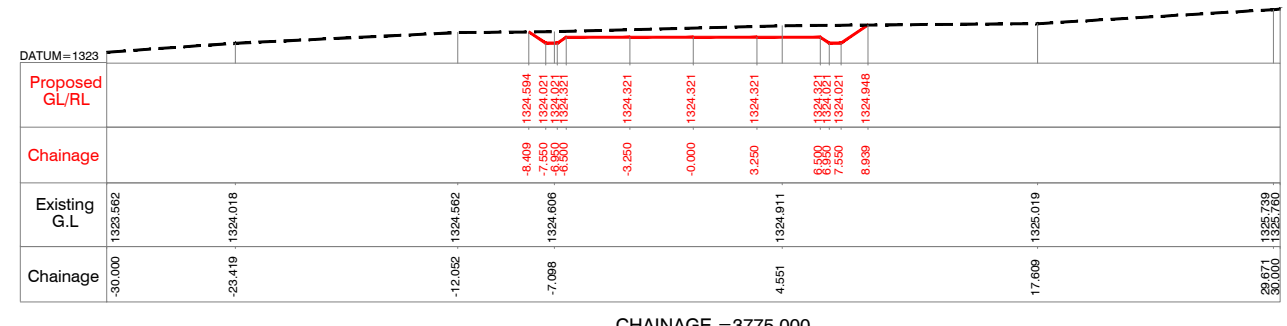
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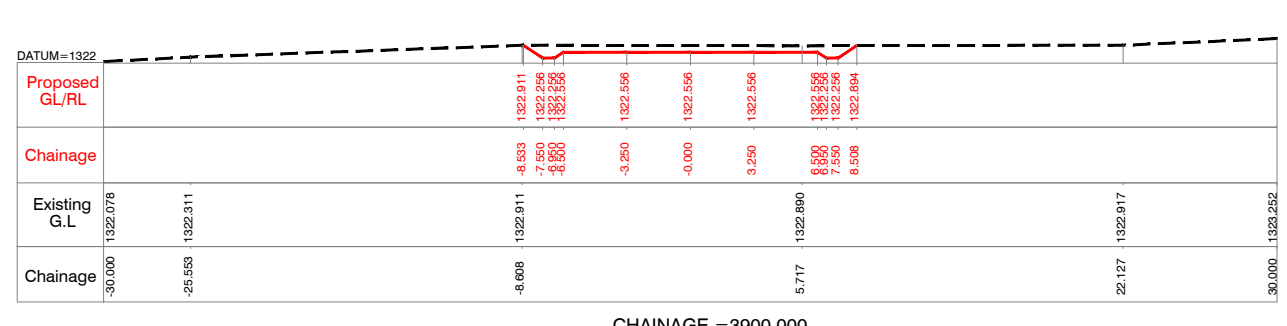
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CHAINAGE = 3875.000



CHAINAGE =3775.000



CHAINAGE =3900.000

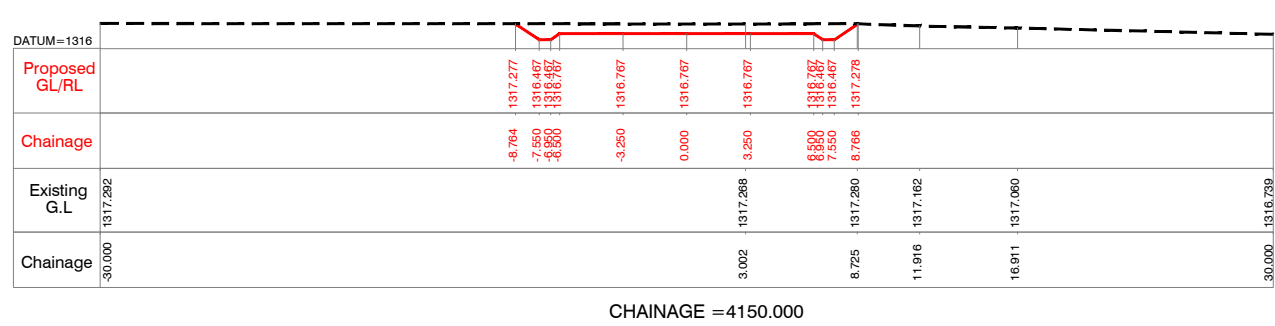
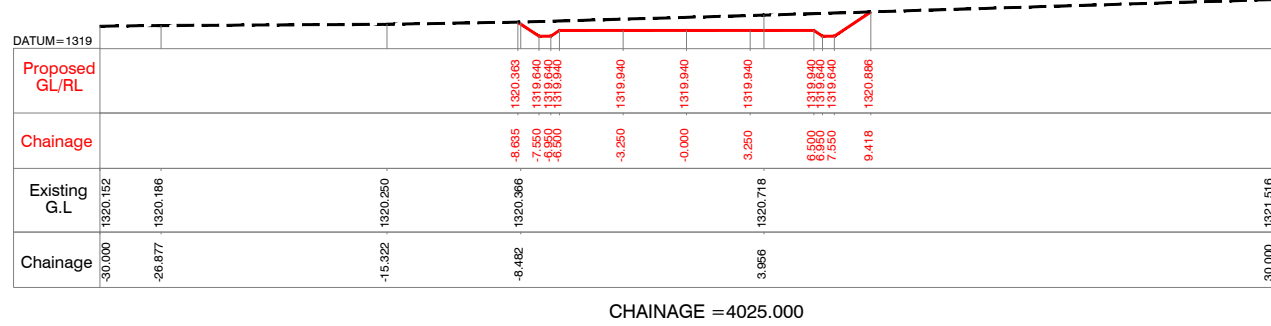
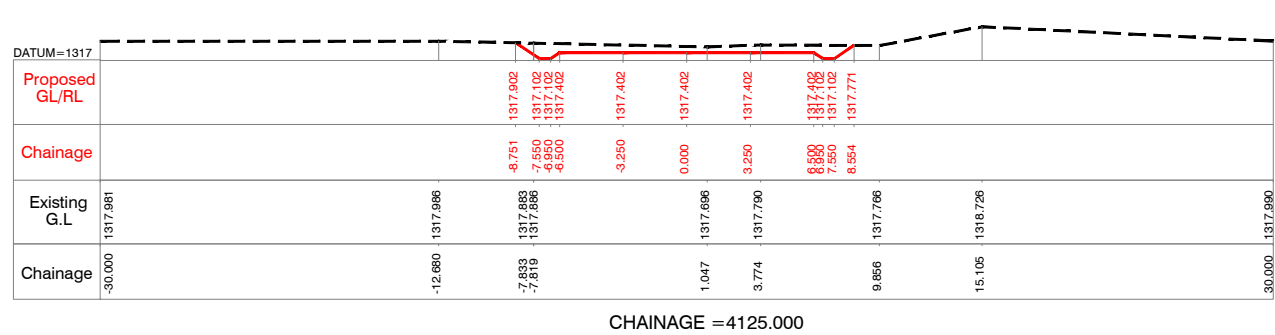
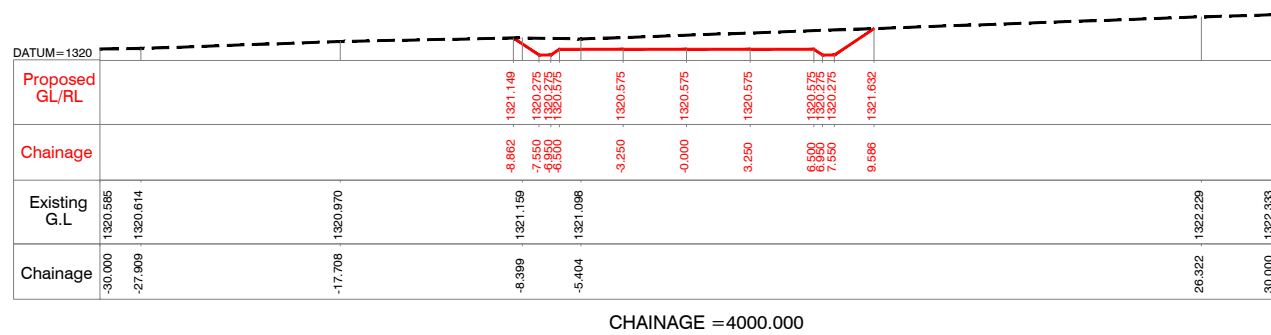
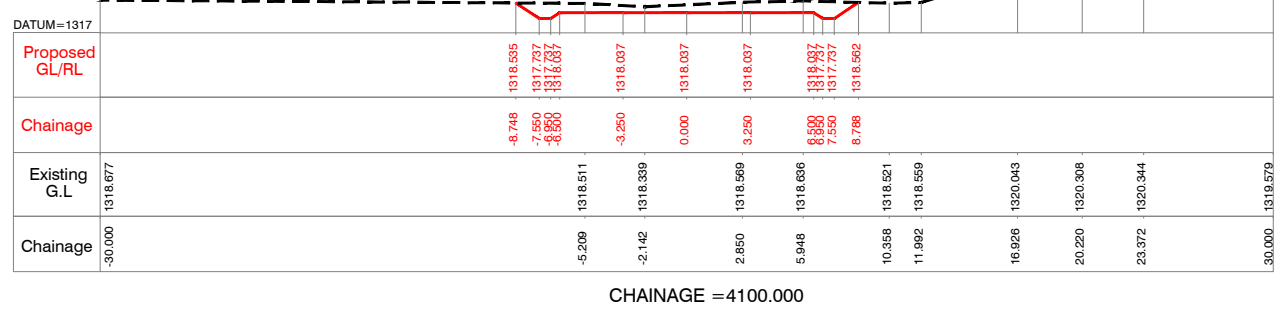
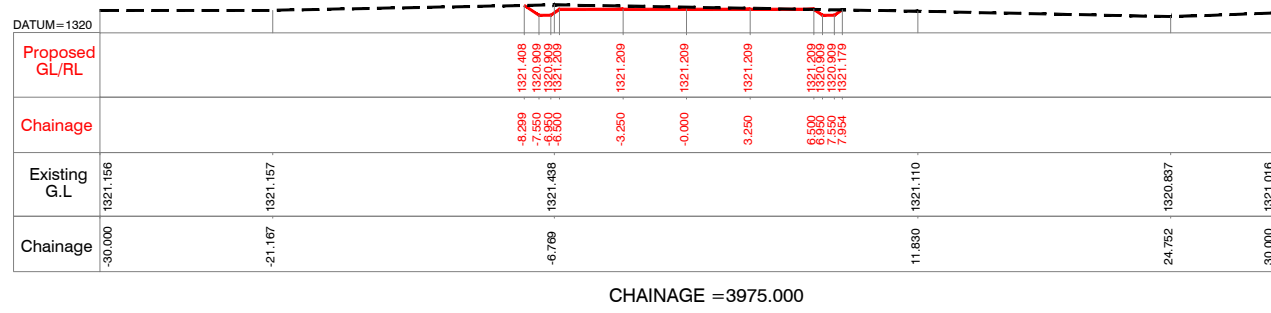
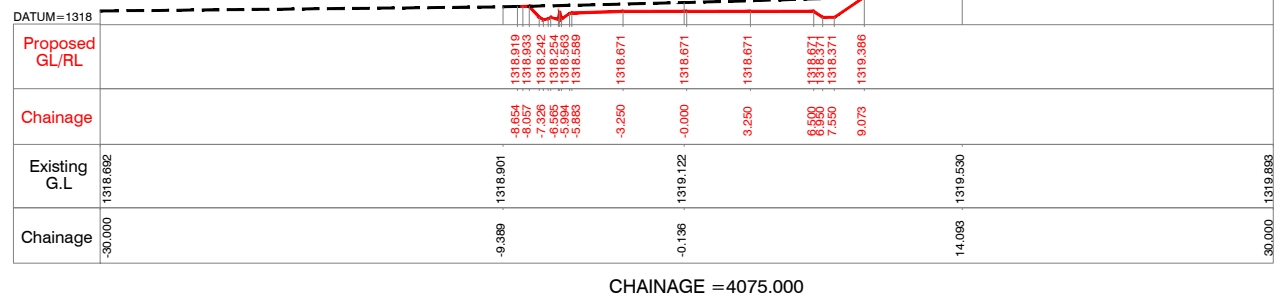
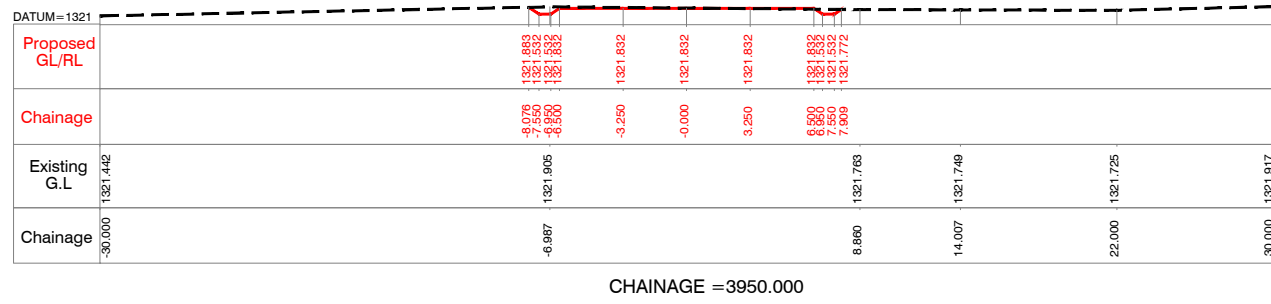
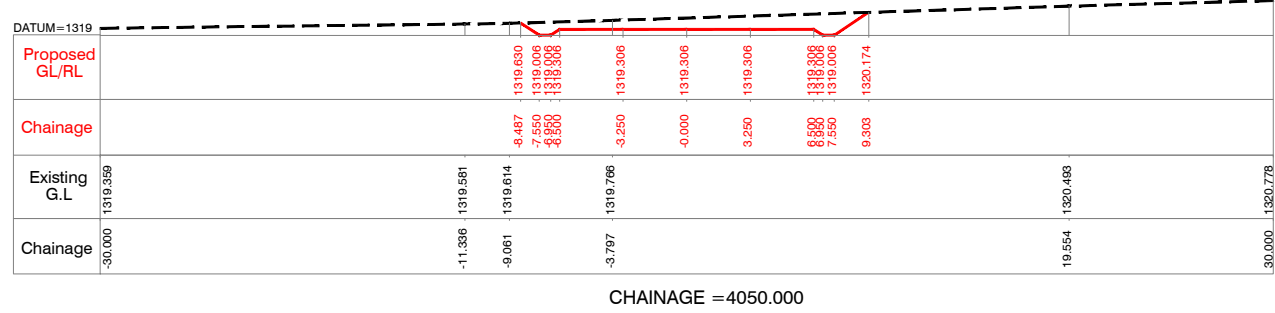
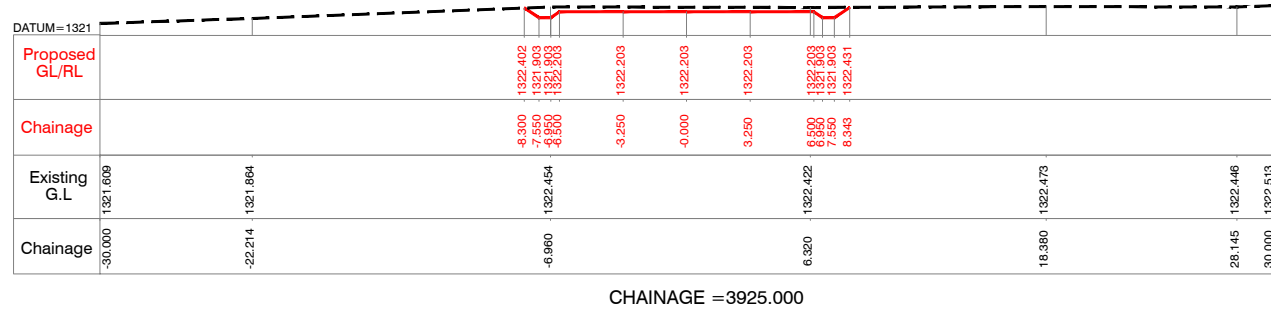
NOTES:-
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 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 3.675 to @km 3.900

Consultants :
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revurba Residency, Ganga Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737833; Fax: +91-4023738277
 e-mail: irrigation@aarvee.net, web:www.aarvee.net



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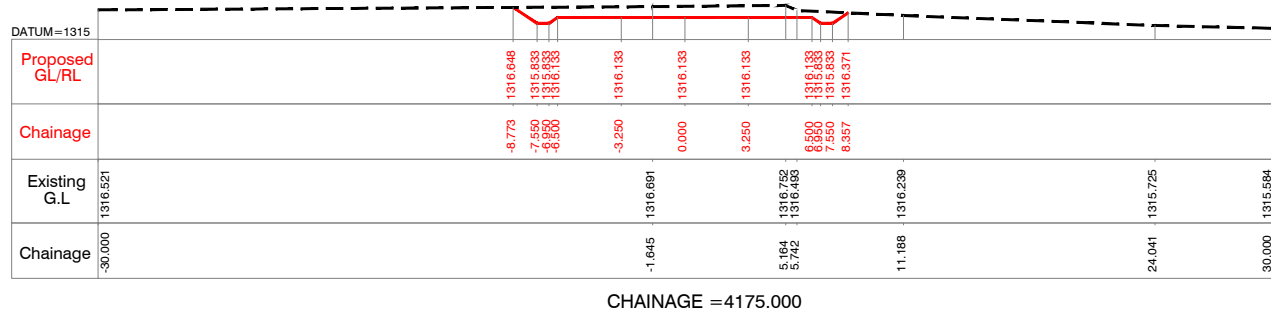
Client: REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project: KABUYANDA IRRIGATION SCHEME

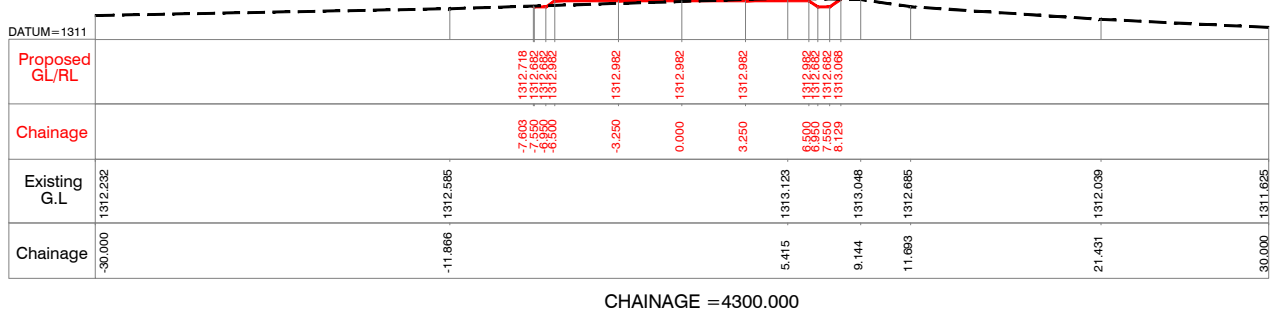
Title: RIGHT SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
@km 3.925 to @km 4.150

Consultants:
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Sangar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

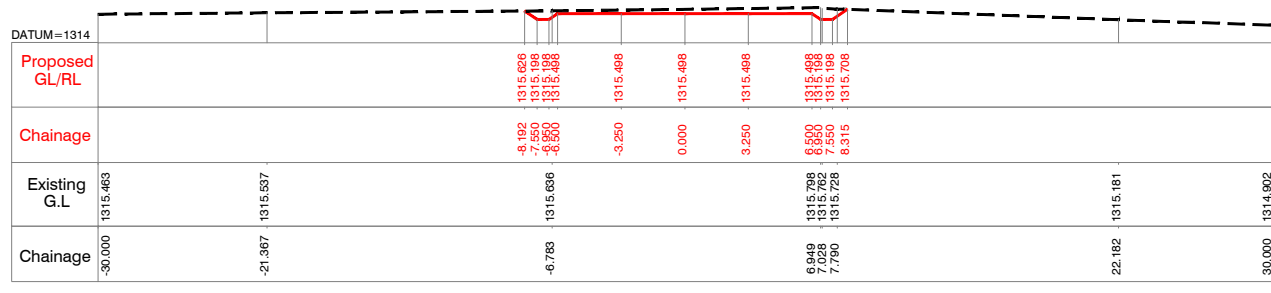
- NOTES:-**
- ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



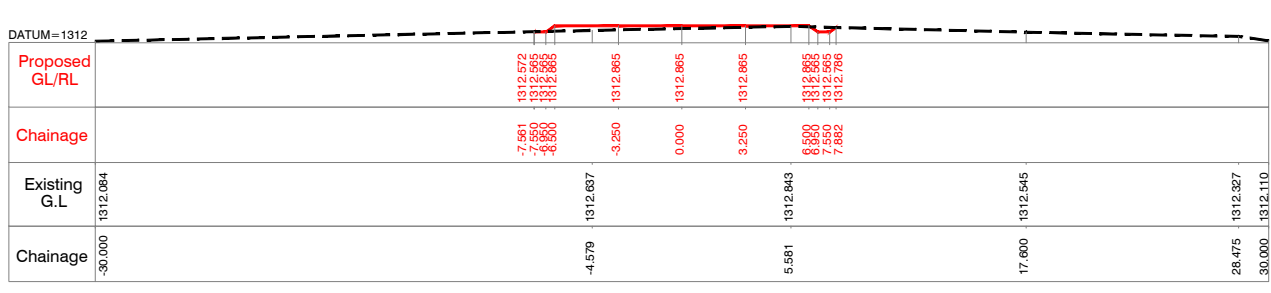
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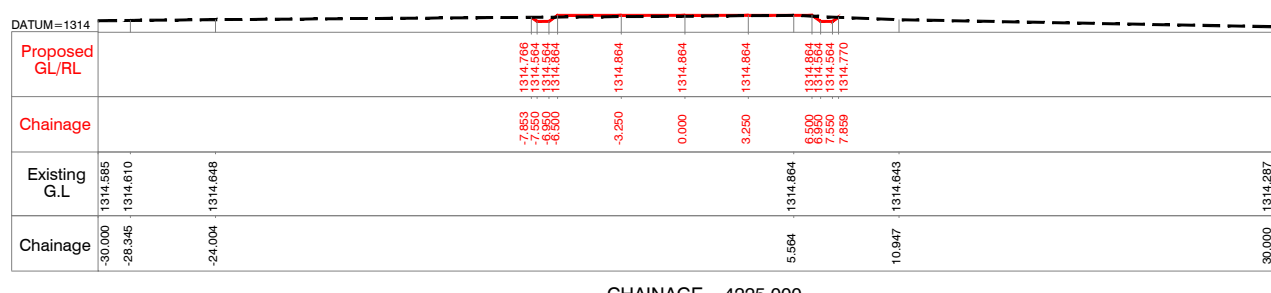
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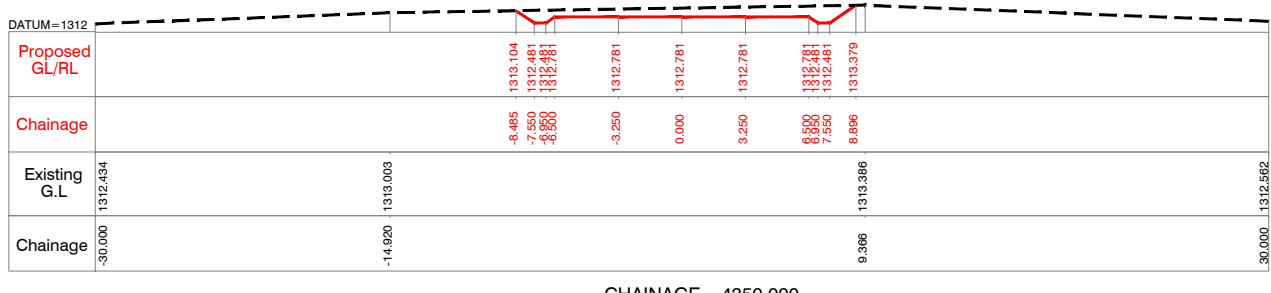
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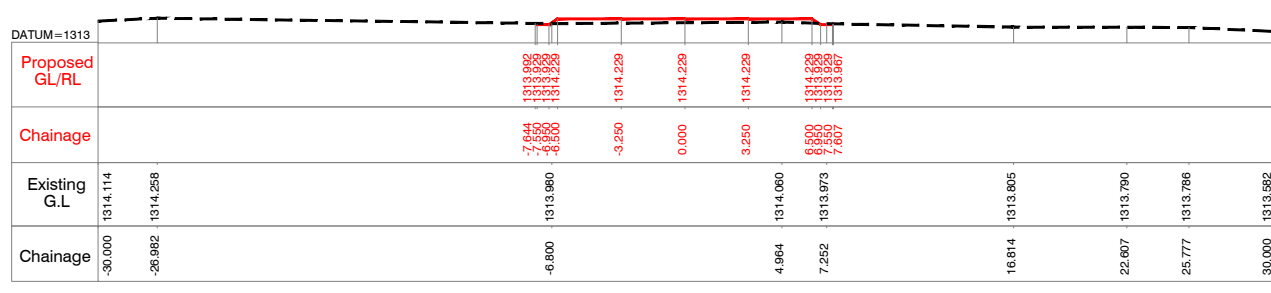
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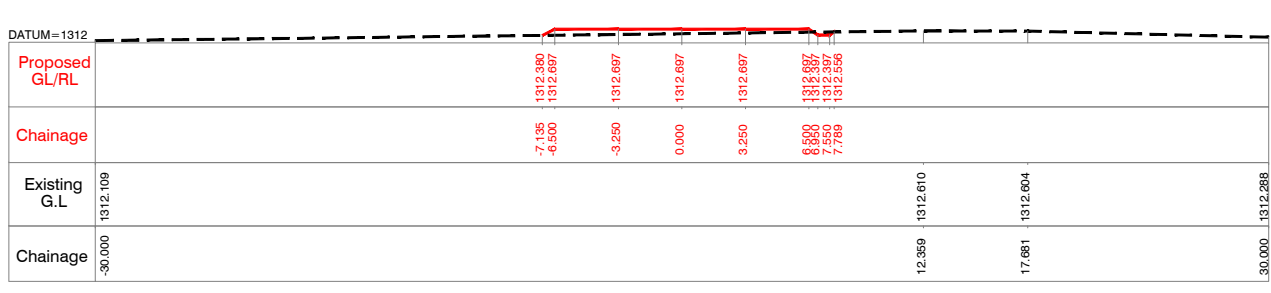
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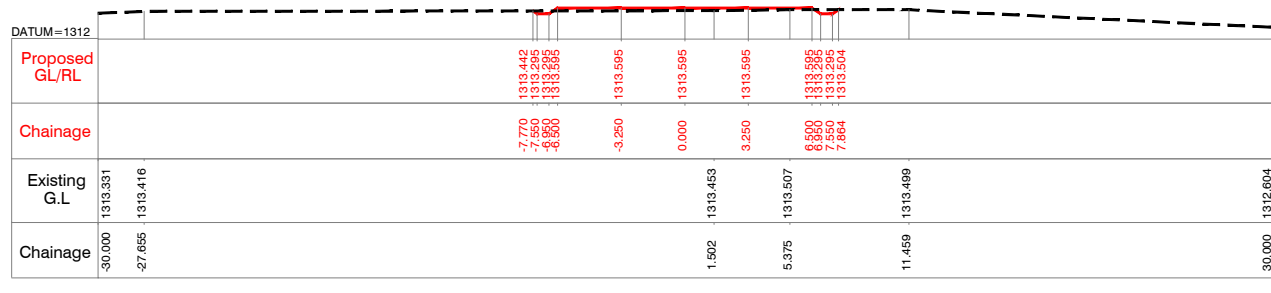
CHAINAGE = 4350.000



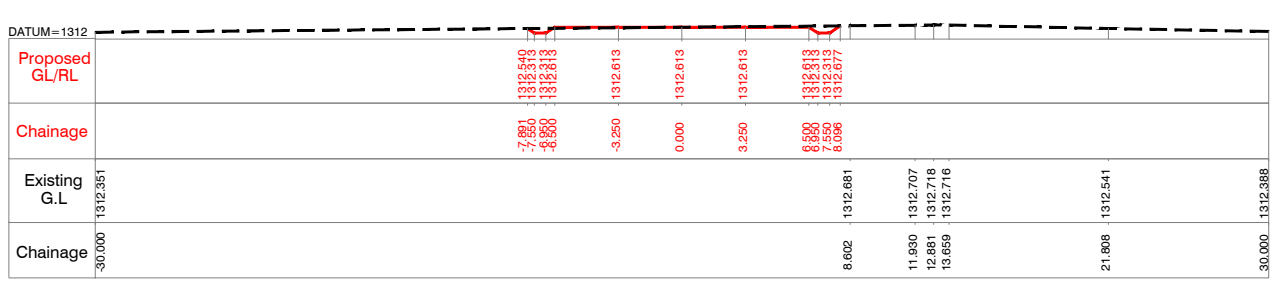
CHAINAGE = 4250.000



CHAINAGE = 4375.000



CHAINAGE = 4275.000



CHAINAGE = 4400.000

Client :  REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : RIGTH SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
@km 4.175 to @km 4.400

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Sanganur Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

| | |
|----------------|----------|
| DATUM=1312 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1312.504 |
| Chainage | -30.000 |

CHAINAGE = 4425.000

| | |
|----------------|----------|
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| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1312.419 |
| Chainage | -30.000 |

CHAINAGE = 4450.000

| | |
|----------------|----------|
| DATUM=1312 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1313.162 |
| Chainage | -30.000 |

CHAINAGE = 4475.000

| | |
|----------------|----------|
| DATUM=1311 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1313.598 |
| Chainage | -30.000 |

CHAINAGE = 4500.000

| | |
|----------------|----------|
| DATUM=1311 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1312.861 |
| Chainage | -30.000 |

CHAINAGE = 4525.000

| | |
|----------------|----------|
| DATUM=1311 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1312.373 |
| Chainage | -30.000 |

CHAINAGE = 4550.000

| | |
|----------------|----------|
| DATUM=1311 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1312.360 |
| Chainage | -30.000 |

CHAINAGE = 4575.000

| | |
|----------------|----------|
| DATUM=1311 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1312.295 |
| Chainage | -30.000 |

CHAINAGE = 4600.000


| | |
|----------------|----------|
| DATUM=1311 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1311.999 |
| Chainage | -30.000 |

CHAINAGE = 4625.000

| | |
|----------------|----------|
| DATUM=1310 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | 1311.770 |
| Chainage | -30.000 |


CHAINAGE = 4650.000

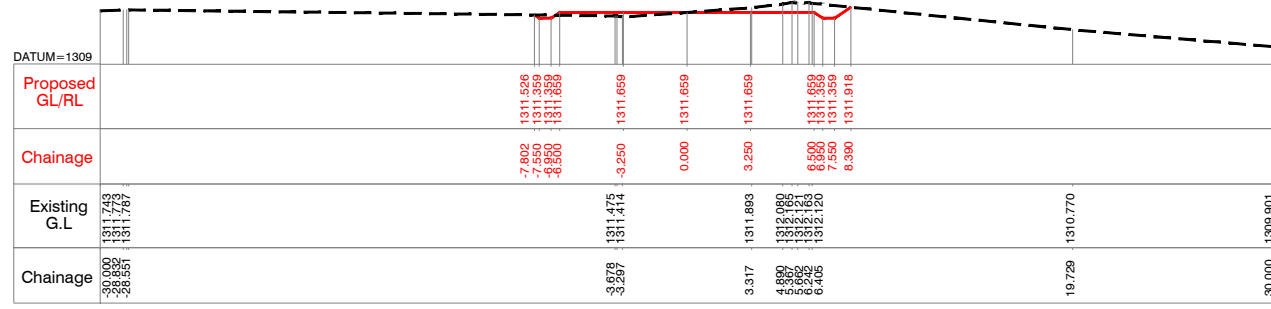
- NOTES:-**
- 1) ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

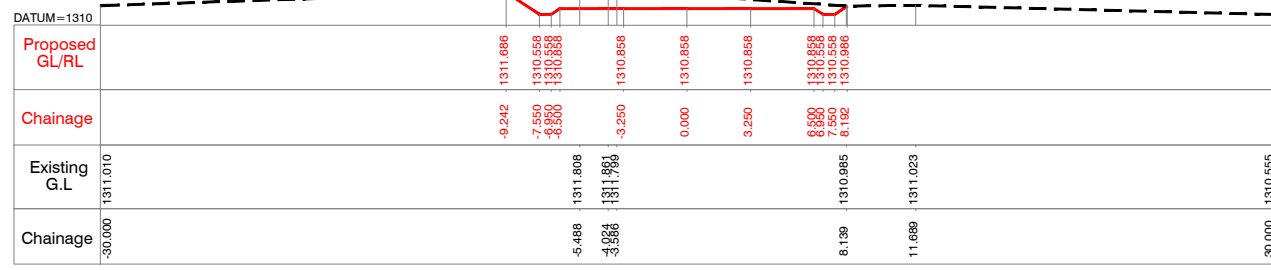
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 4.425 to @km 4.650

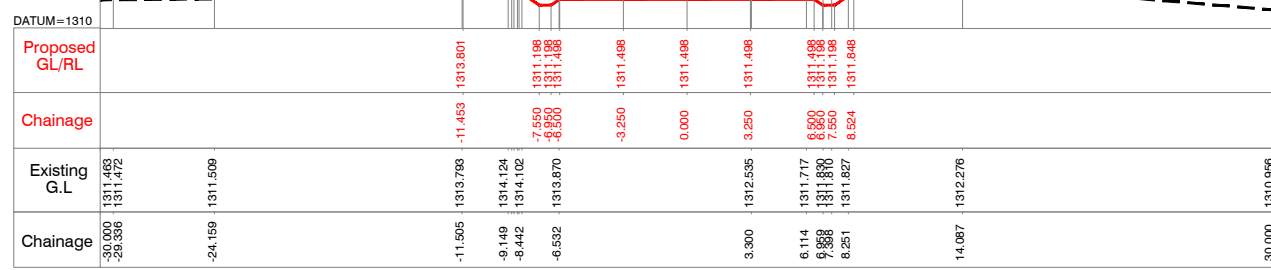
Consultants : 
aarvee associates
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Srirangar Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



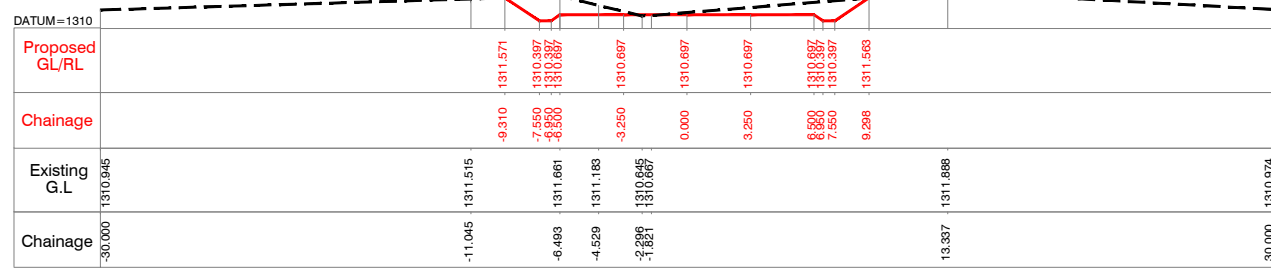
CHAINAGE = 4675.000



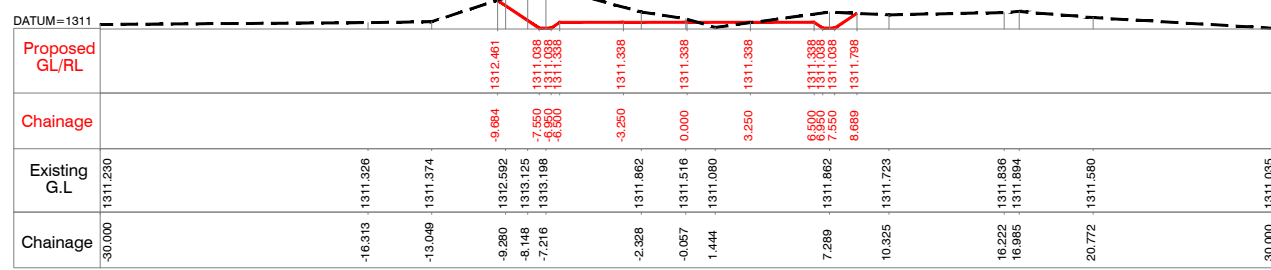
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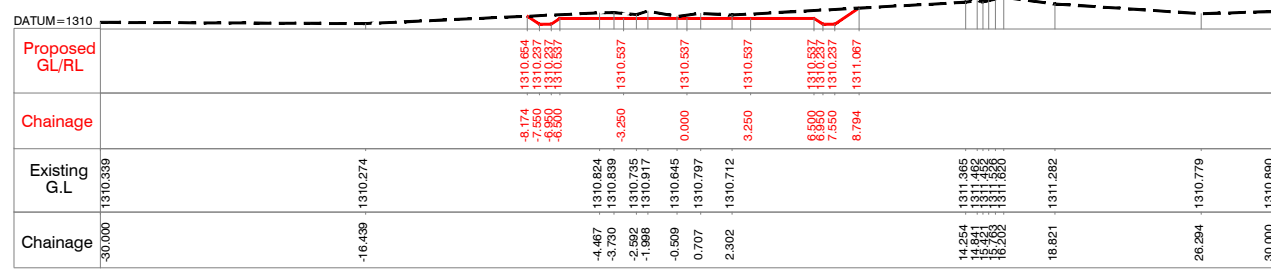
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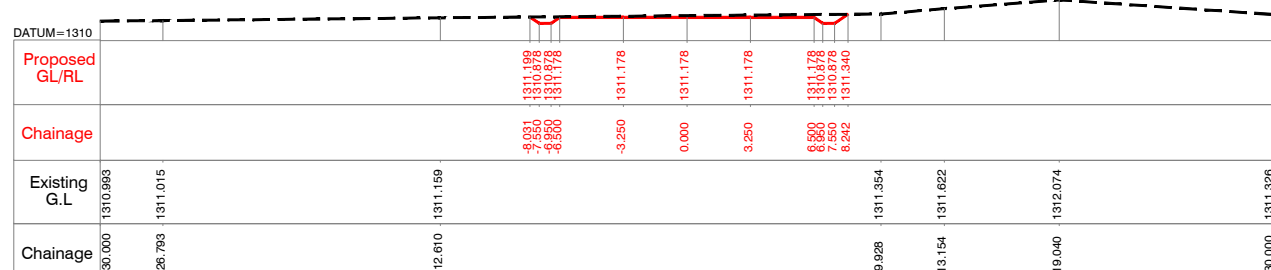
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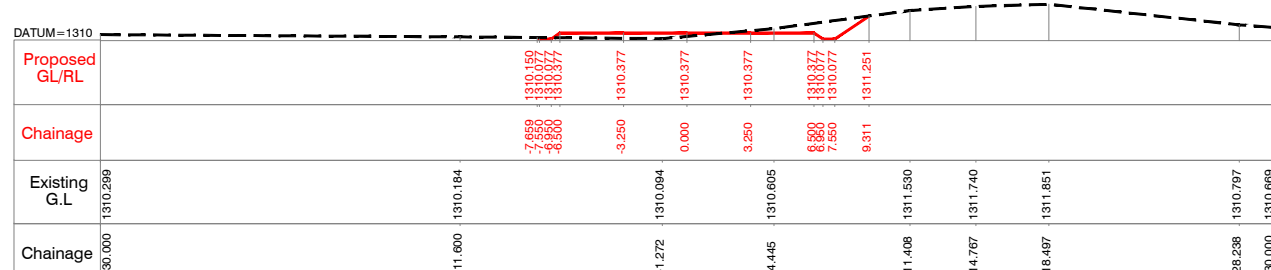
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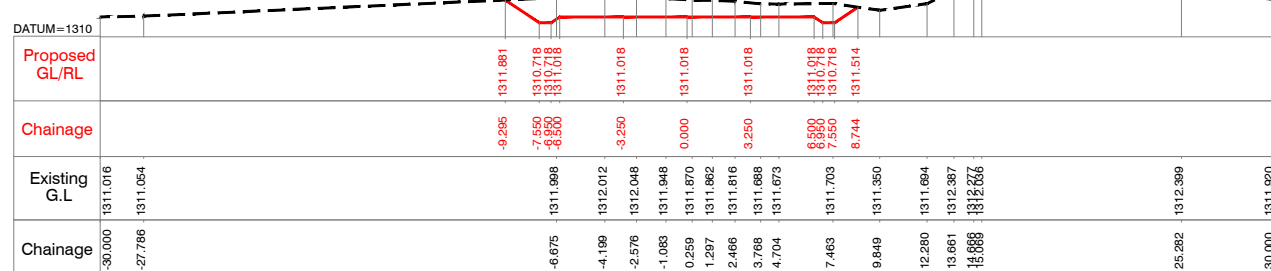
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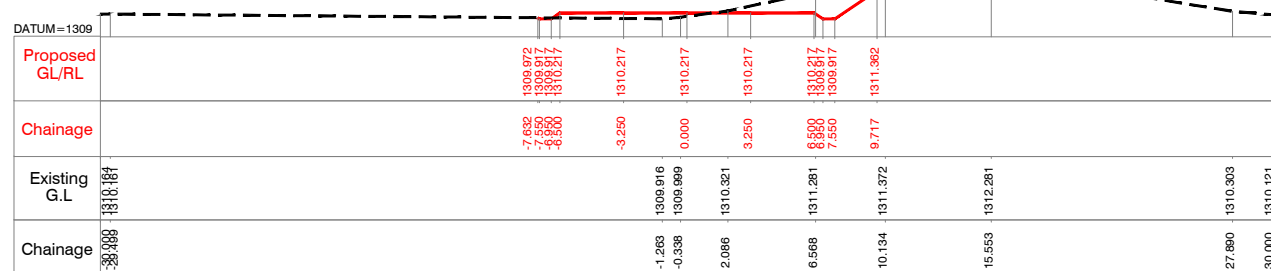
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CHAINAGE = 4875.000




CHAINAGE = 4775.000



CHAINAGE = 4900.000

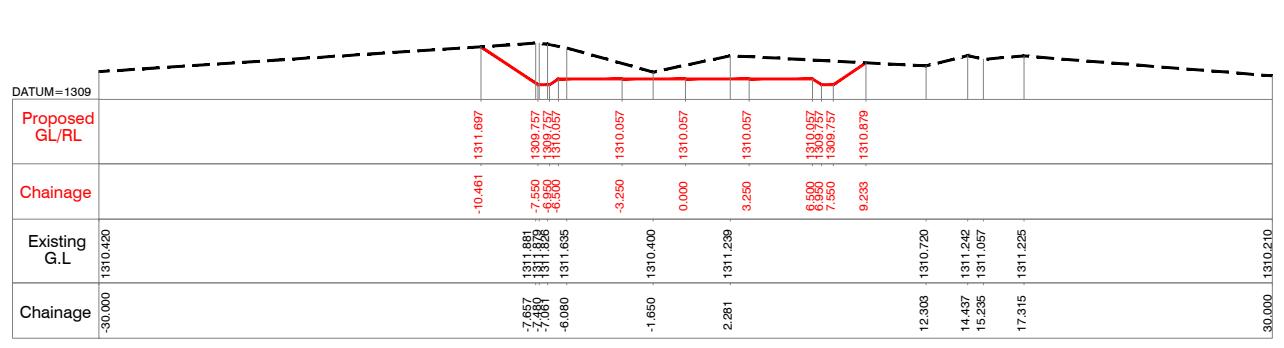
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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

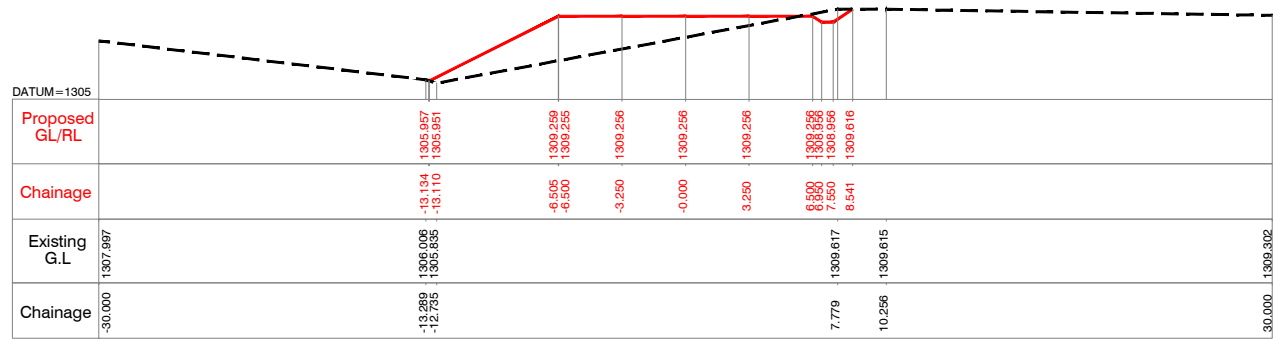
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 4.675 to @km 4.900

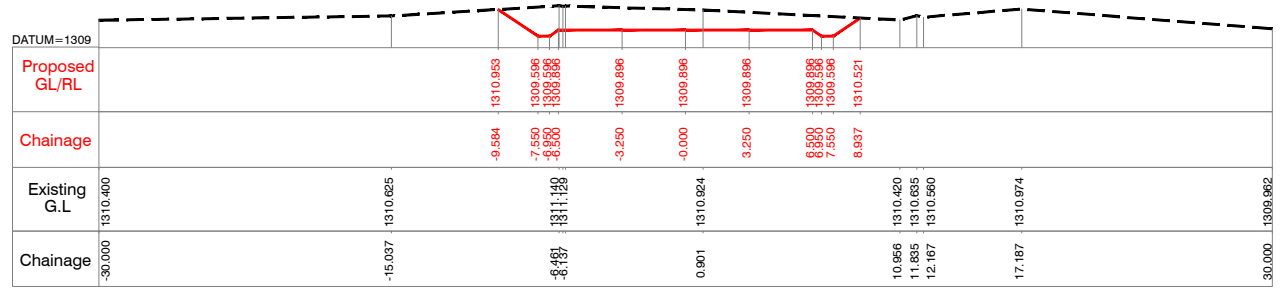
Consultants :  **aarvee associates**
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Srirangar Colony Main Rd., Hyderabad-52, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
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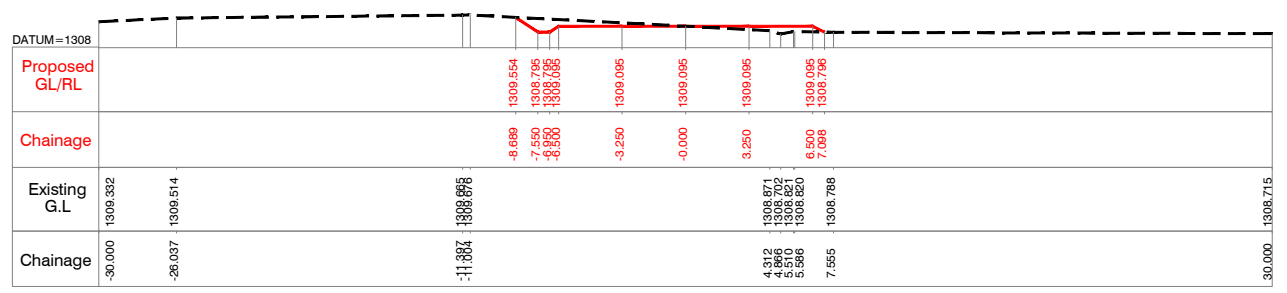
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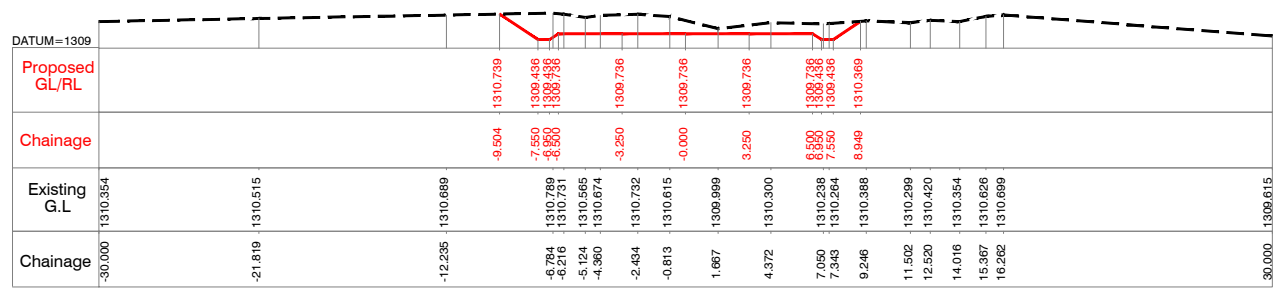
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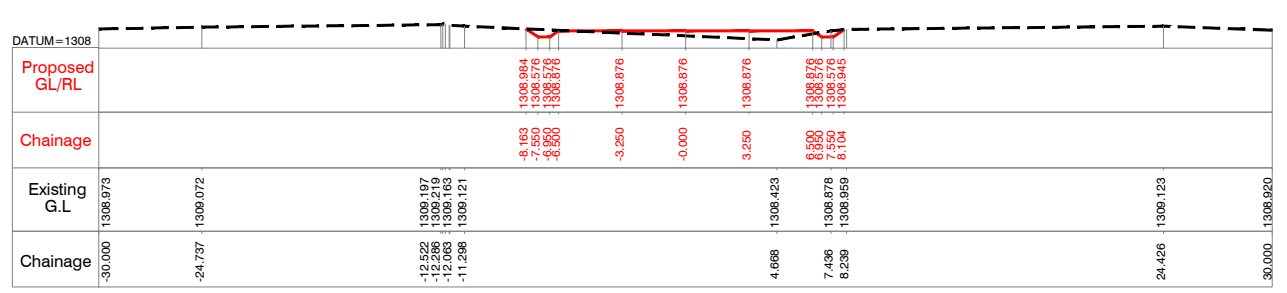
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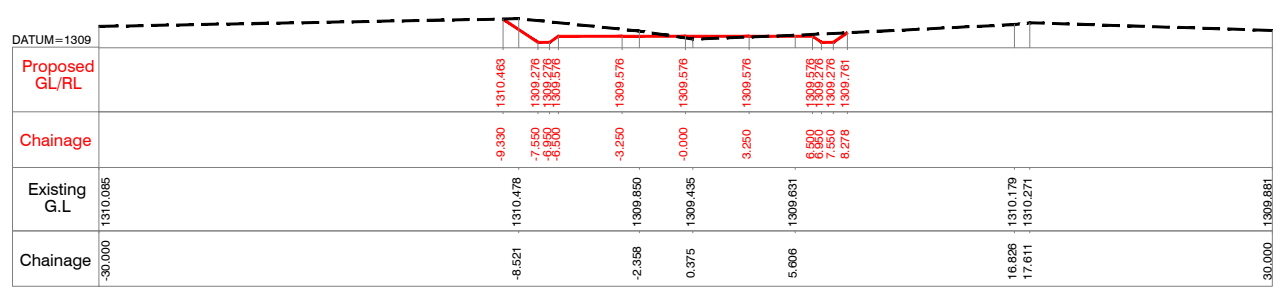
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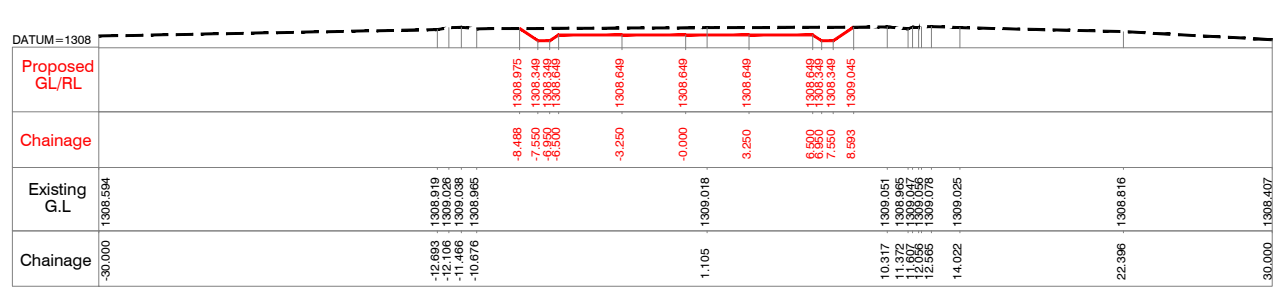
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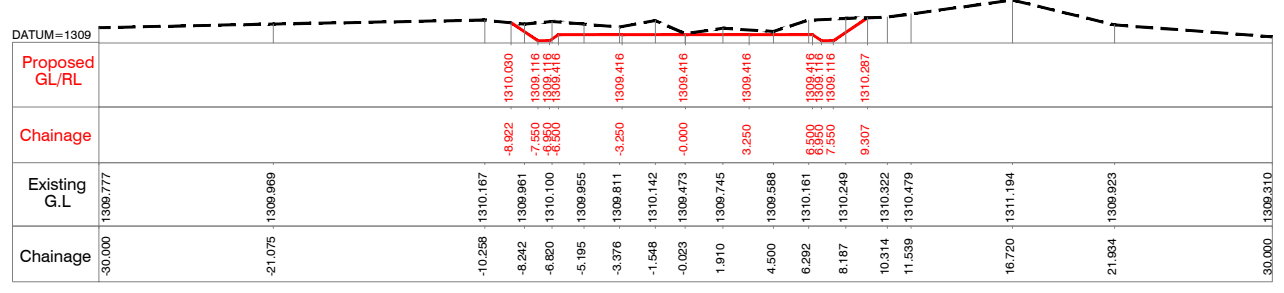
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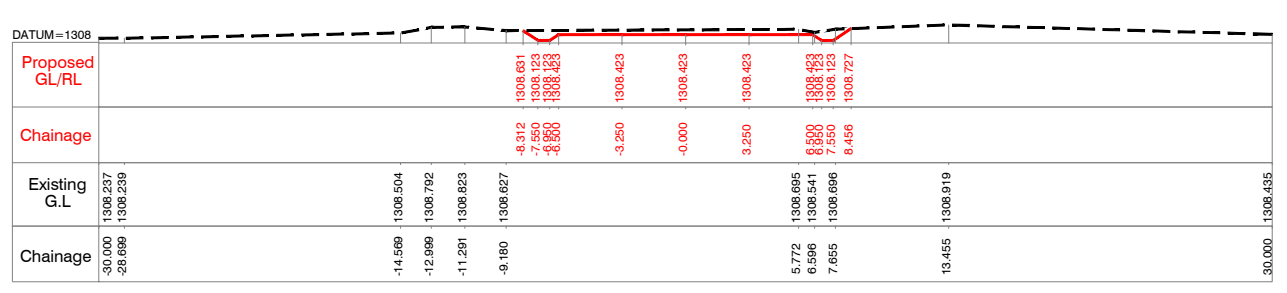
CHAINAGE = 5000.000



CHAINAGE = 5125.000




CHAINAGE = 5025.000




CHAINAGE = 5150.000

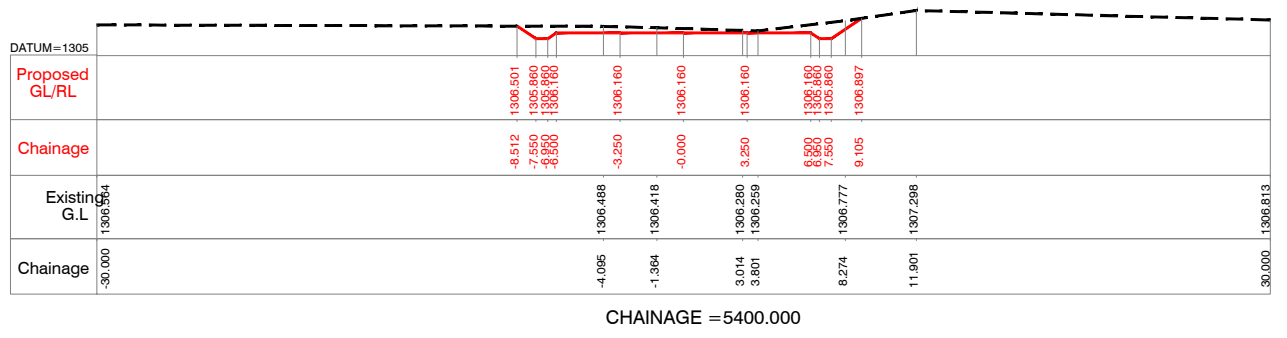
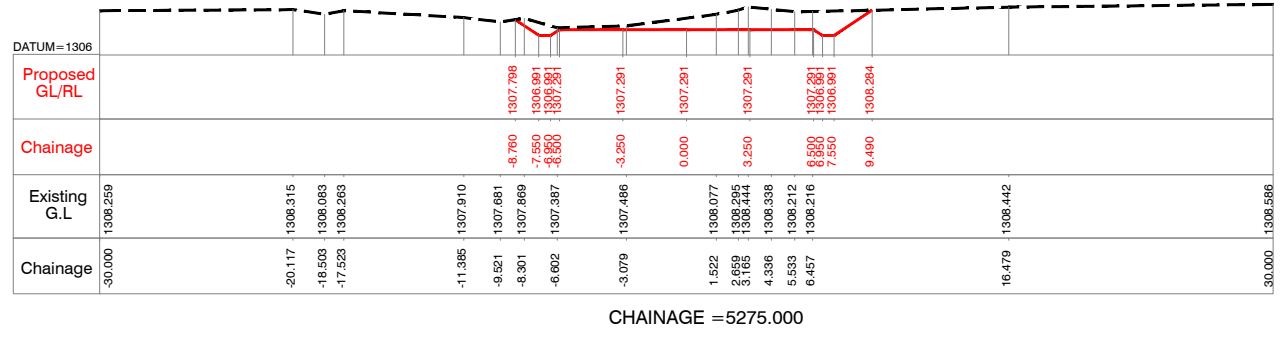
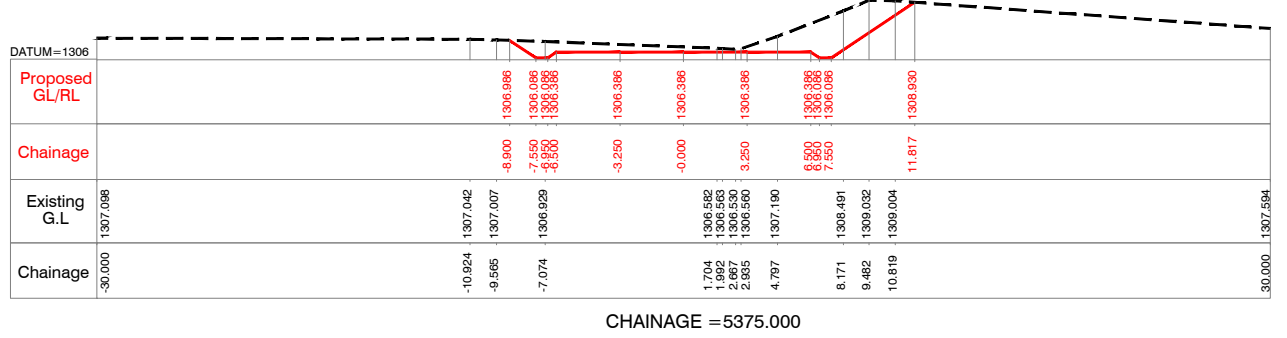
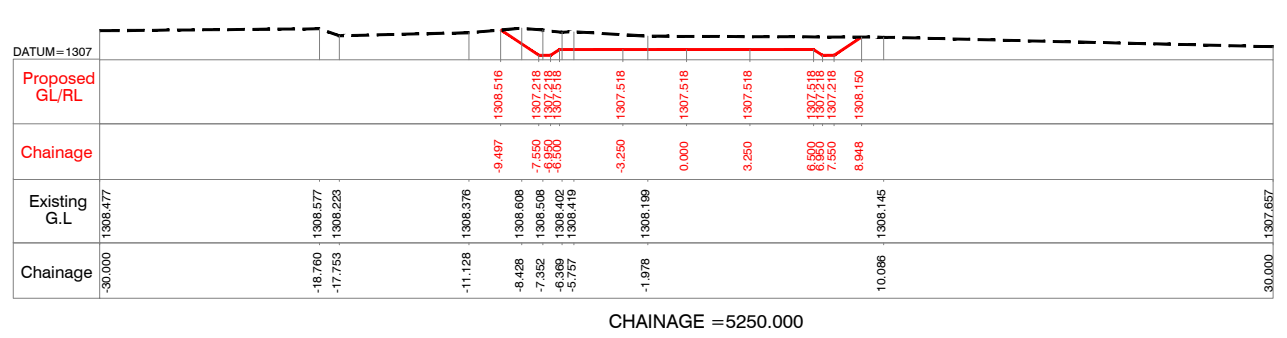
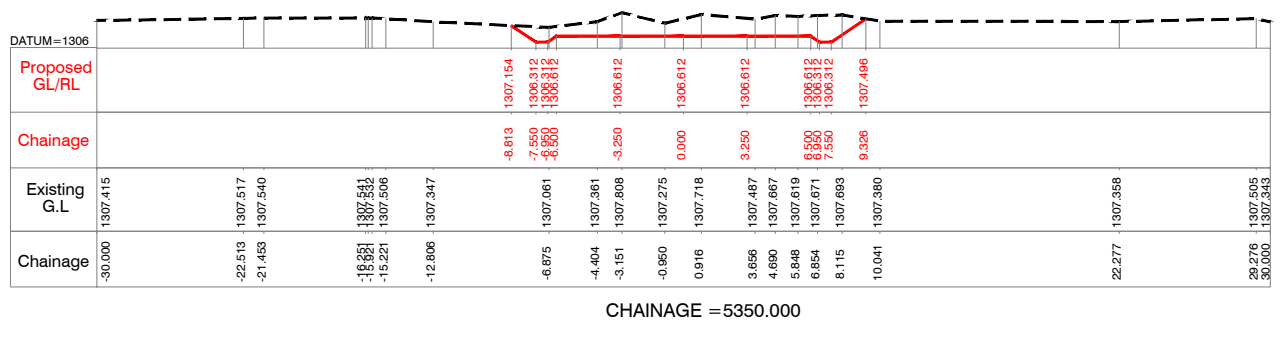
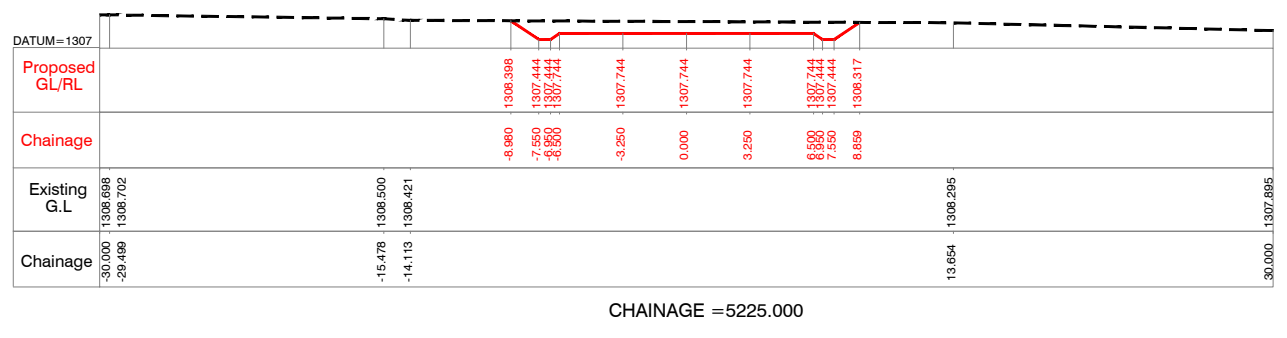
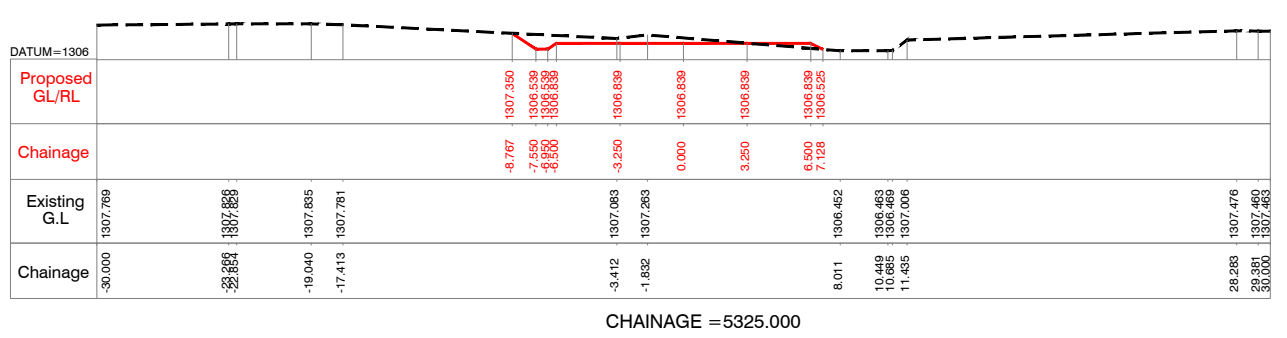
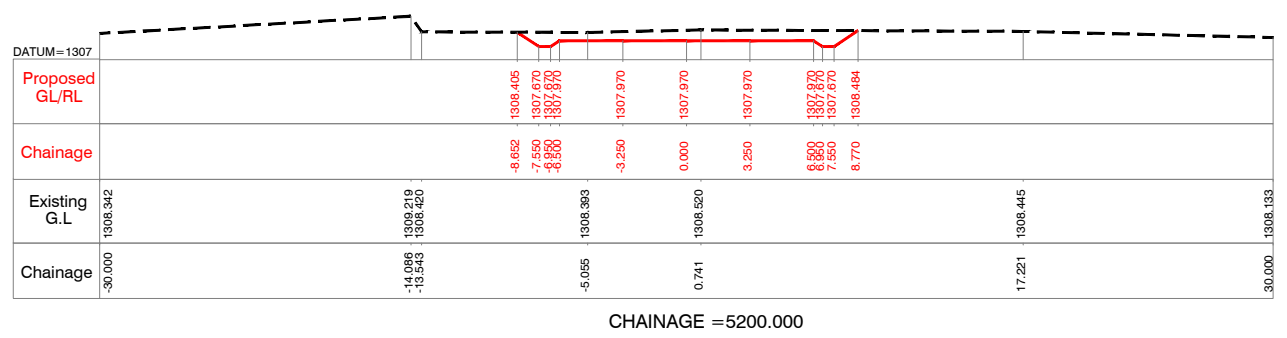
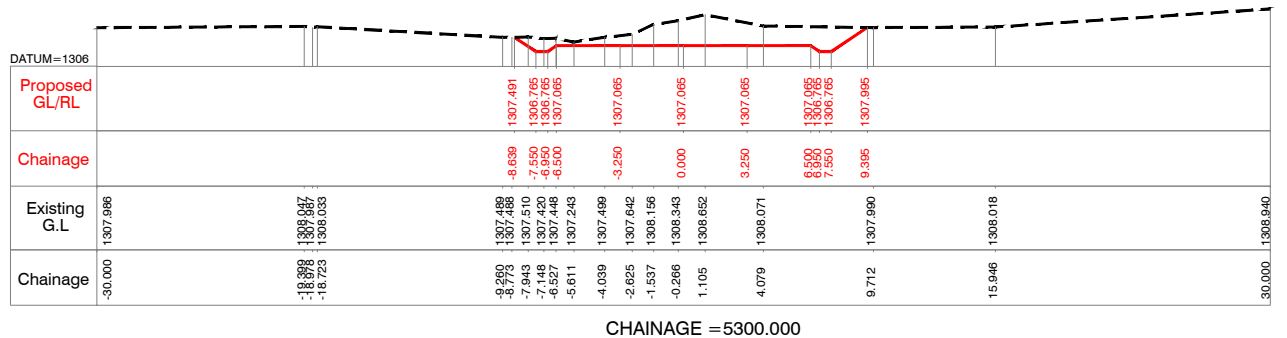
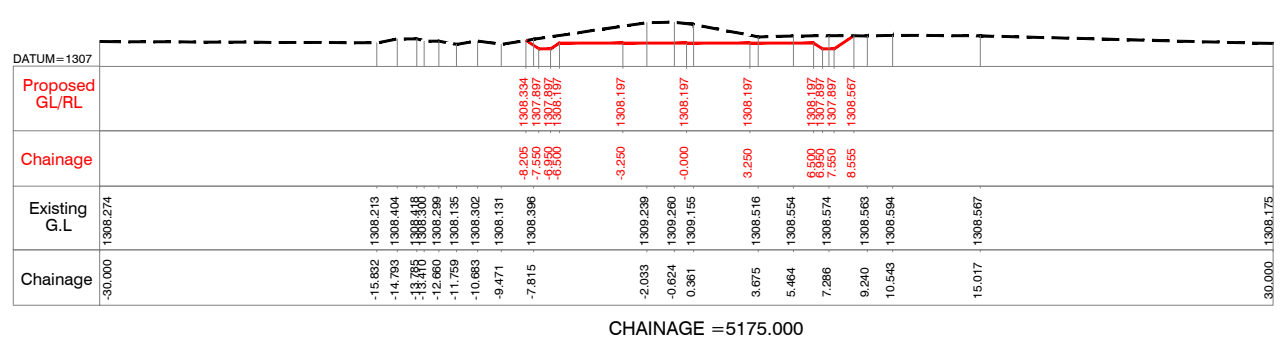
NOTES:-
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 2) DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.

Client :  **REPUBLIC OF UGANDA**
 MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
 @km 4.925 to @km 5.150

Consultants : 
 architects engineers & consultants pvt.ltd.
 Revula Presidency, Sriranga Colony Main Rd., Hyderabad-52, India
 Tel: +91-40-23737633; Fax: +91-4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



- NOTES:-**
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Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 5.175 to @km 5.400

Consultants : **aarvee associates**
architects engineers & consultants pvt.ltd.
Revula Presidency, Seeragar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net

NOTES:-

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| | |
|-------------------|--|
| DATUM=1305 | |
| Proposed GL/RL | 1305.845 1305.833 1305.833 1305.833 1305.833 1305.833 1305.833 1306.770 |
| Chainage | 9.549 -8.550 -8.550 -3.250 -0.000 2.735 3.468 4.950 9.255 |
| Existing G.L | 1306.030 1306.030 1306.030 1306.030 1306.030 1305.835 1305.816 1306.714 |
| Chainage | -30.000 1306.030 1307.039 |

CHAINAGE =5425.000

| | |
|-------------------|--|
| DATUM=1304 | |
| Proposed GL/RL | 1304.374 1304.339 1304.339 1304.339 1304.339 1304.339 1304.339 1304.334 |
| Chainage | -7.249 -6.500 -6.500 -3.250 -0.000 -10.926 1304.376 0.256 3.250 3.363 3.600 7.714 |
| Existing G.L | 1304.451 1304.451 1304.451 1304.451 1304.451 1304.451 1304.451 1304.457 |
| Chainage | -30.000 1304.451 1304.457 |

CHAINAGE =5550.000

| | |
|-------------------|--|
| DATUM=1305 | |
| Proposed GL/RL | 1305.707 1305.707 1305.707 1305.707 1305.707 1305.707 1305.707 1305.681 |
| Chainage | -7.995 -8.550 -8.550 -3.250 -0.000 3.250 1305.701 7.999 7.999 |
| Existing G.L | 1305.654 1305.654 1305.654 1305.654 1305.654 1305.701 1305.638 1305.735 |
| Chainage | -30.000 1305.654 1305.638 1305.735 |

CHAINAGE =5450.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | 1303.302 1303.302 1303.302 1303.302 1303.302 1303.302 1303.302 1303.296 |
| Chainage | -7.991 -6.500 -6.500 -3.250 0.000 -0.893 1303.302 2.879 6.500 7.112 1303.296 |
| Existing G.L | 1304.390 1304.386 1304.386 1304.159 1304.159 1304.159 1304.006 1303.977 1303.943 |
| Chainage | -30.000 1304.390 1304.386 1304.159 1304.006 1303.943 |

CHAINAGE =5575.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | 1303.412 1303.412 1303.412 1303.412 1303.412 1303.412 1303.412 1303.993 |
| Chainage | -7.544 -6.500 -6.500 -3.250 -0.000 3.250 6.500 9.338 1303.993 |
| Existing G.L | 1305.485 1305.478 1305.482 1305.482 1305.482 1303.728 1303.577 1303.577 |
| Chainage | -30.000 1305.485 1305.478 1305.482 1303.728 1303.577 |

CHAINAGE =5475.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | 1303.064 1303.064 1303.064 1303.064 1303.064 1303.064 1303.064 1303.064 |
| Chainage | -9.053 -6.500 -6.500 -3.250 -0.000 3.250 6.500 7.774 1303.064 |
| Existing G.L | 1304.298 1304.298 1304.298 1304.298 1304.298 1303.972 1303.779 1303.710 1303.705 |
| Chainage | -30.000 1304.298 1303.972 1303.779 1303.710 1303.705 |

CHAINAGE =5600.000

| | |
|-------------------|--|
| DATUM=1302 | |
| Proposed GL/RL | 1303.287 1303.287 1303.287 1303.287 1303.287 1303.287 1303.287 1303.287 |
| Chainage | -10.069 -6.500 -3.250 -0.000 3.250 6.500 7.594 7.594 |
| Existing G.L | 1302.868 1302.868 1302.868 1302.868 1302.868 1303.623 1304.965 1304.801 1304.820 |
| Chainage | -30.000 1302.868 1303.623 1304.965 1304.801 1304.820 |

CHAINAGE =5500.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | 1303.668 1303.668 1303.668 1303.668 1303.668 1303.668 1303.668 1303.668 |
| Chainage | -9.016 -6.500 -6.500 -3.250 -0.000 3.250 6.500 7.594 1303.668 |
| Existing G.L | 1304.170 1304.170 1304.170 1304.170 1304.170 1303.849 1303.737 1303.737 |
| Chainage | -30.000 1304.170 1303.849 1303.737 1303.737 |

CHAINAGE =5625.000

| | |
|-------------------|--|
| DATUM=1304 | |
| Proposed GL/RL | 1304.776 1304.776 1304.776 1304.776 1304.776 1304.776 1304.776 1304.668 |
| Chainage | -7.923 -6.500 -6.500 -3.250 -0.000 3.250 6.500 7.923 7.923 |
| Existing G.L | 1304.846 1304.846 1304.846 1304.846 1304.846 1304.716 1304.776 1304.668 1304.514 |
| Chainage | -30.000 1304.846 1304.716 1304.776 1304.668 1304.514 |

CHAINAGE =5525.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | 1303.668 1303.668 1303.668 1303.668 1303.668 1303.668 1303.668 1303.668 |
| Chainage | -7.757 -6.500 -6.500 -3.250 -0.000 3.250 6.500 7.596 1303.668 |
| Existing G.L | 1304.046 1303.994 1303.774 1303.776 1303.668 1303.668 1303.668 1303.668 1303.399 |
| Chainage | -30.000 1304.046 1303.994 1303.774 1303.776 1303.668 1303.668 1303.668 1303.399 |

CHAINAGE =5650.000

Client :  REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : RIGTH SIDE ACCESS ROAD FROM DAM SITE
CROSS SECTION
@km 5.425 to @km 5.650

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Saragur Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-2373633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | |
| Chainage | |

CHAINAGE = 5675.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | |
| Chainage | |

CHAINAGE = 5700.000

| | |
|-------------------|--|
| DATUM=1303 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | |
| Chainage | |

CHAINAGE = 5725.000

| | |
|-------------------|--|
| DATUM=1302 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | |
| Chainage | |

CHAINAGE = 5750.000

| | |
|-------------------|--|
| DATUM=1302 | |
| Proposed GL/RL | |
| Chainage | |
| Existing G.L | |
| Chainage | |

CHAINAGE = 5766

NOTES:-

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Client :  **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RIGHT SIDE ACCESS ROAD FROM DAM SITE**
CROSS SECTION
@km 5.675 to @km 5.766

Consultants : 
aarvee associates
architects engineers & consultants pvt.ltd.
Revula Presidency, Singar Colony Main Rd., Hyderabad-52, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net