

CONSTRUCTION OF 2 NOS VRBS AT DIFFERENT REACHES OF
UCH CANAL DISTRICT SOHBAT PUR
DRAWING INDEX

S.No.	Drawing No.	Description
		GENERAL
01	IFRAP-P05/UCH-01	LOCATION AREA MAP
		GEOLOGY
02	IFRAP-P05/UCH-02	SITE GEOLOGICAL MAP
		UCH CANAL
03	IFRAP-P05/UCH-03	PLAN OF ROAD BRIDGE
04	IFRAP-P05/UCH-04	SECTION A-A & B-B OF ROAD BRIDGE

CLIENT:



IRRIGATION DEPARTMENT
GOVERNMENT OF
BALOCHISTAN

CONSULTANTS:

CAMEOS
CONSULTANTS
CONSULTING ENGINEERS ARCHITECTS & PLANNERS.
PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD.
H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.

PROJECT TITLE:

INTEGRATED FLOOD RESILIENCE AND
ADAPTATION PROJECT

SCHEME NAME:

CONSTRUCTION OF 2 NOS VRBS AT
DIFFERENT REACHES OF UCH CANAL
DISTRICT SOHBAT PUR

DRAWING TITLE:-

DRAWING INDEX

NOTES:

ALL LEVELS AND DIMENSIONS ARE
IN METERS UNLESS INDICATED
OTHERWISE.

DRAWN BY: FAISAL / USAMA

DESIGNED BY: KAMRAN BABAR

CHECKED BY: ZIA-UL-HAQ

SCALE: N:T:S

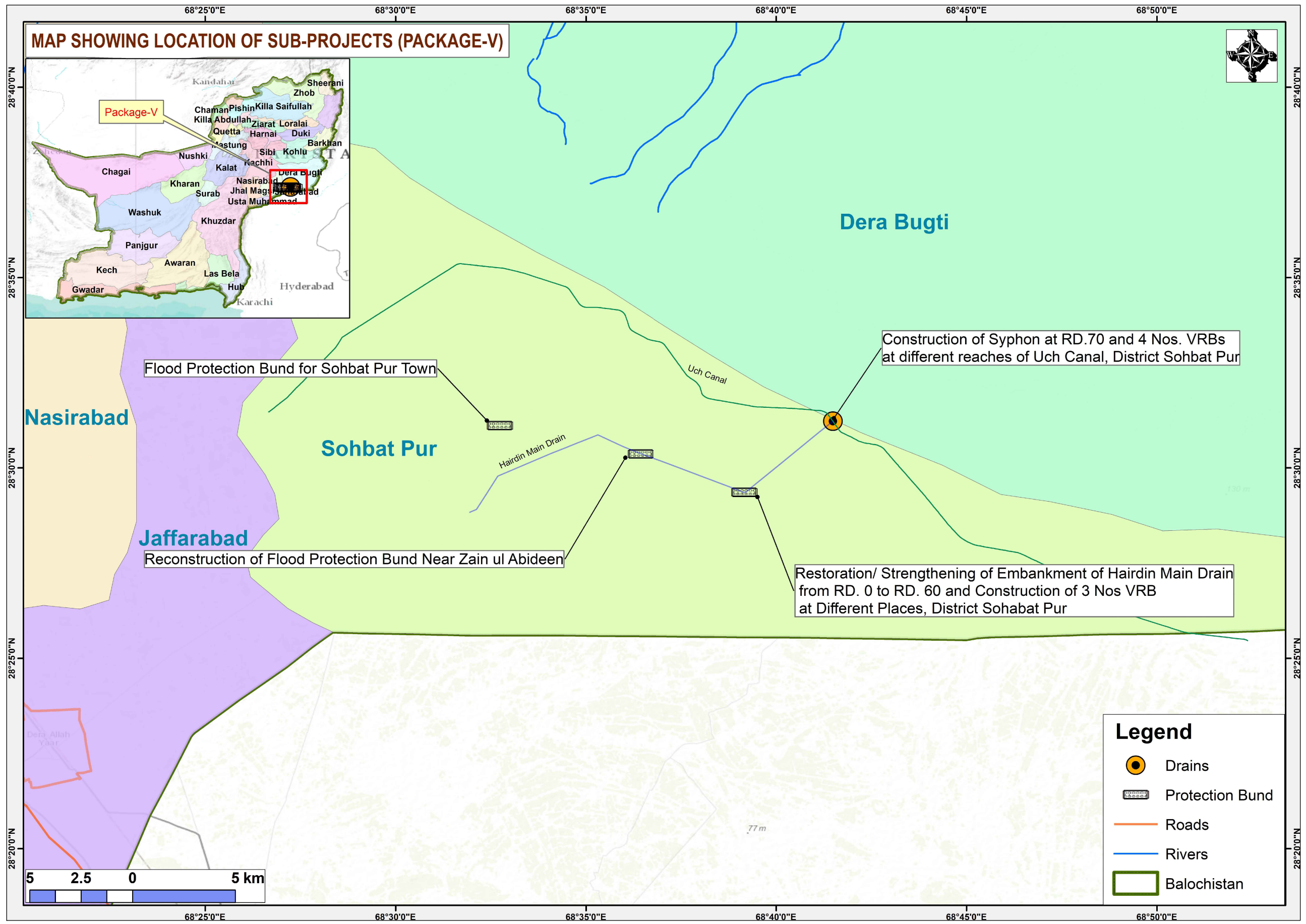
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DATE: AUG / 2025

DRAWING NO: IFRAP-P05/UCH-IDX

SHEET:- 01 OF 01

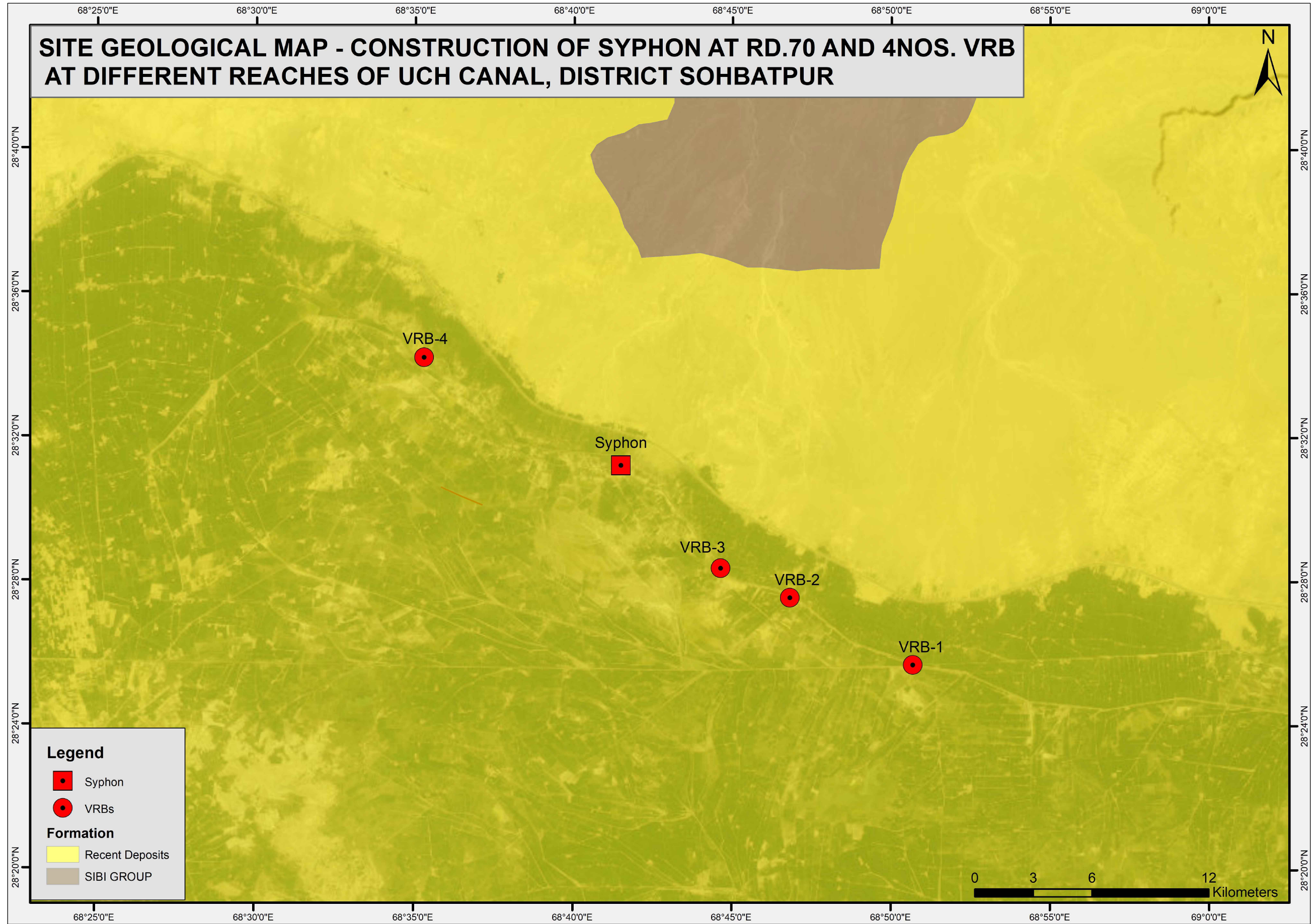
ABBREVIATIONS	
C NO	CURVE NUMBER
PE	POINT OF ENTRY (CHAINAGE OF START OF CURVE)
E	EASTING COORDINATE OF CURVE POINT
N	NORTHING COORDINATE OF CURVE POINT
PC	POINT OF CURVATURE (START OF CURVE WHERE STRAIGHT ALIGNMENT END) IT IS ALSO KNOWN AS BC BEGINNING OF CURVE
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DA	DEFLECTION ANGLE (INITIAL DEFLECTION FROM TANGENT)
DC	DEFLECTION CHANGE (INCREMENTAL DEFLECTION, OFTEN PER CHORD)
T	TANGENT LENGTH DISTANCE FROM PI (POINT OF INTERSECTION) TO PC OR PT
R	RADIUS RADIUS OF THE CIRCULAR CURVE
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Δ (Delta)	CENTRAL / INTERSECTION ANGLE TOTAL ANGLE SUBTENDED BY THE CURVE AT THE CENTER
	RELATIONSHIP (FOR UNDERSTANDING) $L = (\pi \times R \times \Delta) / 180$ $T = R \times \tan(\Delta / 2)$ $E = R [\sec(\Delta/2) - 1]$ $C = 2R \sin(\Delta/2)$



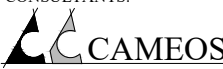
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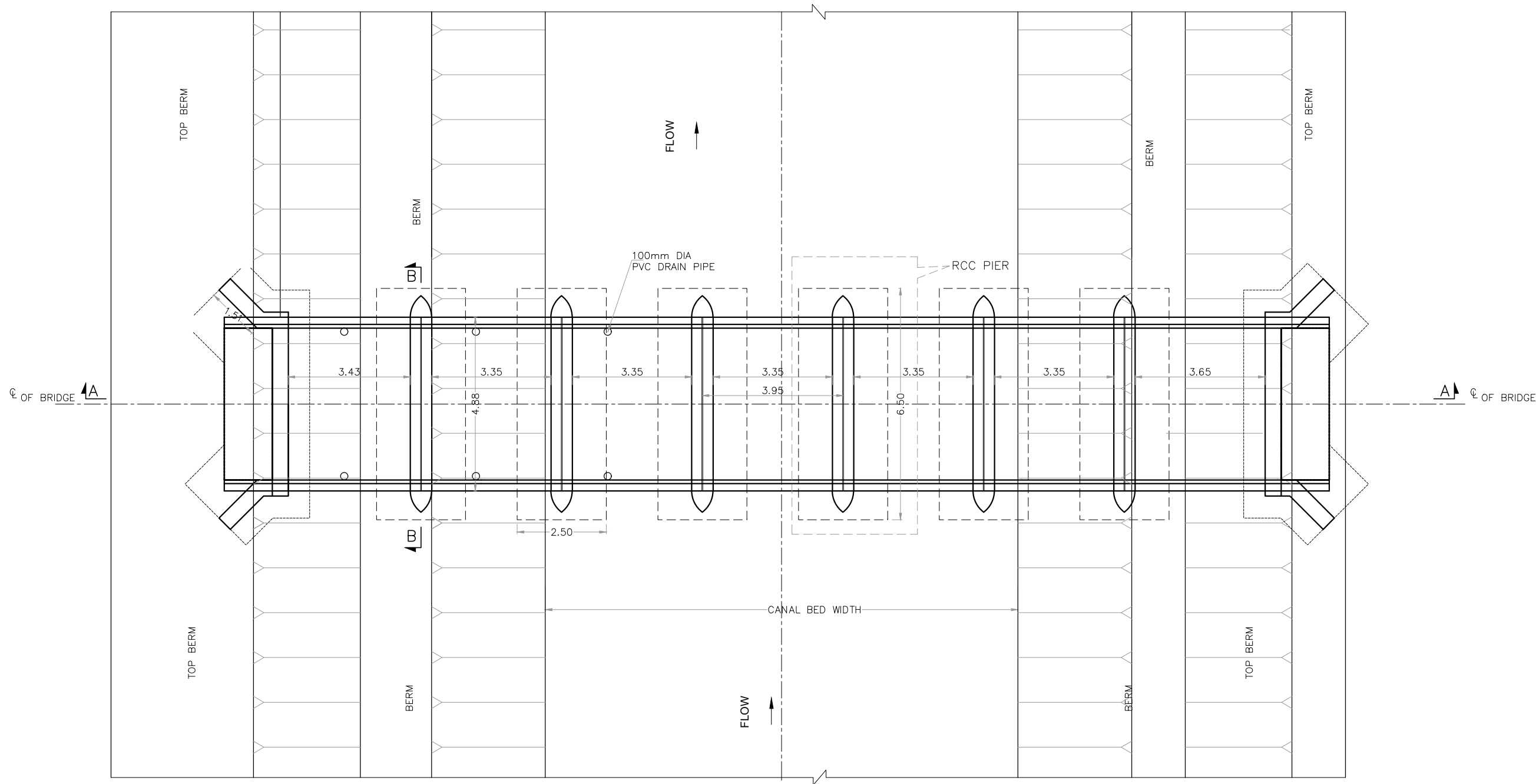
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 IRRIGATION DEPARTMENT GOVERNMENT OF BALOCHISTAN	 CAMEOS CONSULTANTS CONSULTING ENGINEERS ARCHITECTS & PLANNERS. PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD. H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.	INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT	CONSTRUCTION OF 2 NOS VRBS AT DIFFERENT REACHES OF UCH CANAL DISTRICT SOHBAT PUR	LOCATION AREA MAP	ALL LEVELS AND DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.	CHECKED BY: ZIA-UL-HAQ	SCALE: AS SHOWN
						FILE PATH: G/ /IFRAP	DATE: AUG / 2025
						DRAWING NO: IFRAP-P05/UCH-01	SHEET:- 01 OF 01

**SITE GEOLOGICAL MAP - CONSTRUCTION OF SYPHON AT RD.70 AND 4NOS. VRB
AT DIFFERENT REACHES OF UCH CANAL, DISTRICT SOHBATPUR**



TENDER DRAWINGS

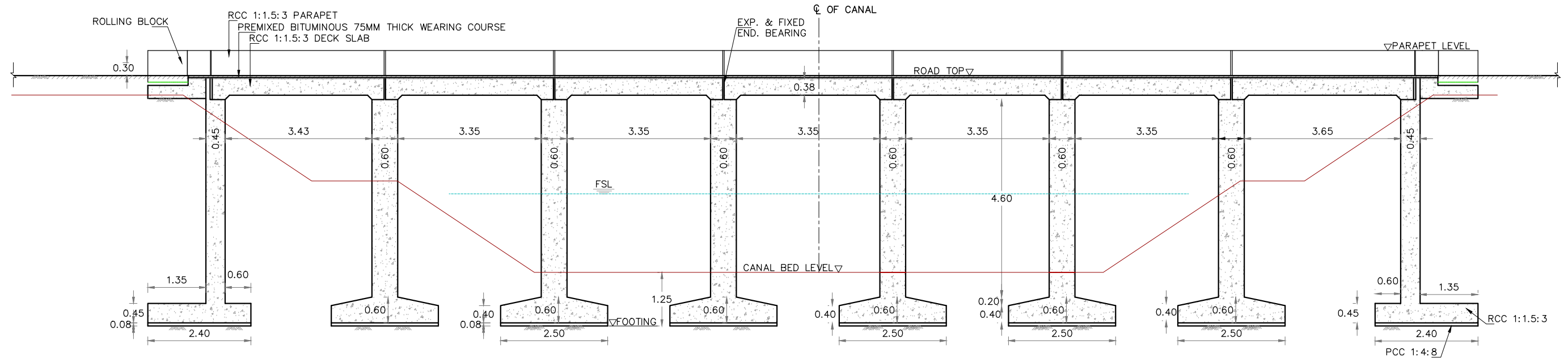
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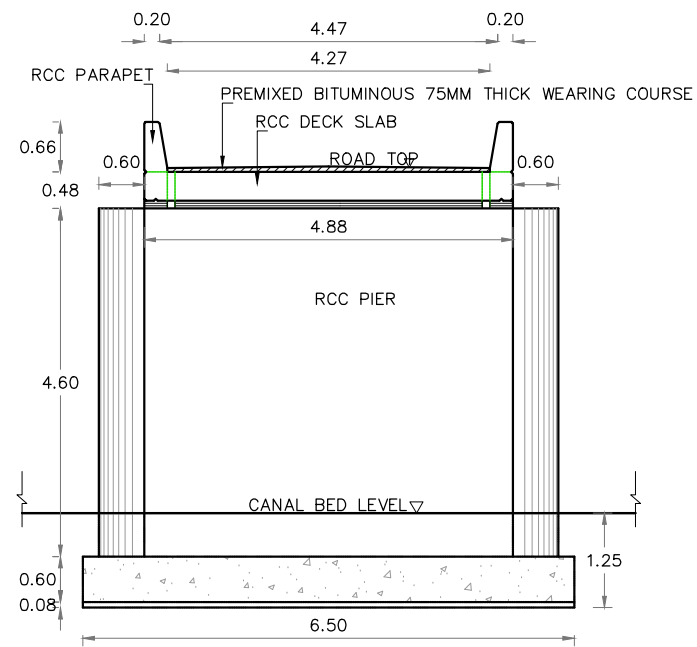
PLAN OF ROAD BRIDGE AT RD 2+813 & 10+083

TENDER DRAWINGS

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SECTION A-A
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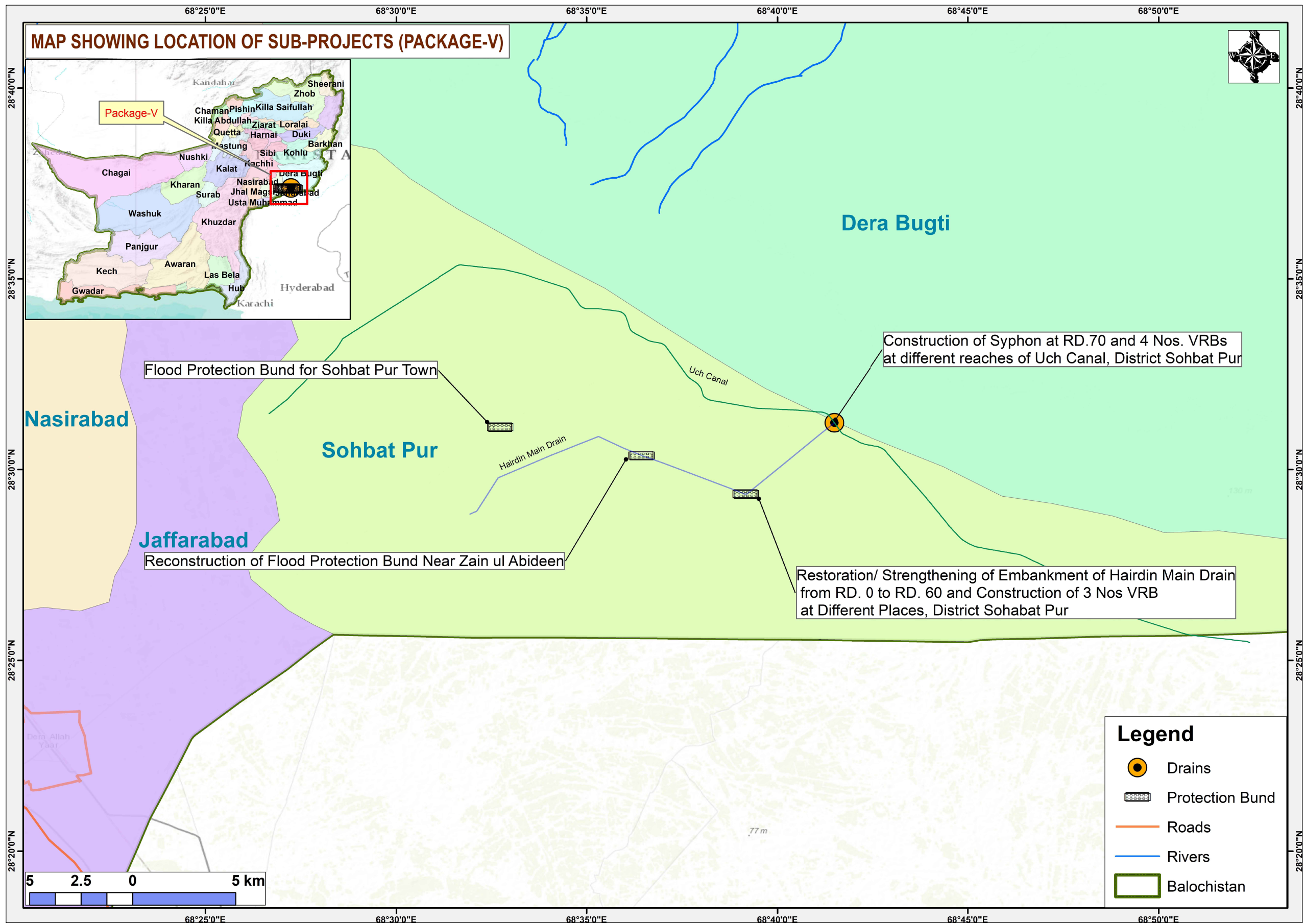
SECTION B-B
SCALE 1:100

TENDER DRAWINGS

CLIENT:  IRRIGATION DEPARTMENT GOVERNMENT OF BALOCHISTAN	CONSULTANTS:  CAMEOS CONSULTANTS CONSULTING ENGINEERS ARCHITECTS & PLANNERS. PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD. H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.	PROJECT TITLE: INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT	SCHEME NAME: CONSTRUCTION OF 2 NOS VRBS AT DIFFERENT REACHES OF UCH CANAL DISTRICT SOHBAT PUR	DRAWING TITLE:- SECTION A-A, B-B, OF RCC PIER OF ROAD BRIDGE	NOTES: ALL LEVELS AND DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.	DRAWN BY: FAISAL / USAMA CHECKED BY: ZIA-UL-HAQ FILE PATH: G/ IFRAP DRAWING NO: IFRAP-P05/UCH-04	DESIGNED BY: KAMRAN BABAR SCALE: AS SHOWN DATE: AUG / 2025 SHEET:- 01 OF 01
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RESTORATION / STRENGTHENING OF EMBANKMENT OF HAIRDIN MAIN DRAIN		
DRAWING INDEX		
S.No.	Drawing No.	Description
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03	IFRAP-P05/HDM-03	CATCHMENT AREA MAP
GEOLOGY		
04	IFRAP-P05/HDM-04	SITE GEOLOGICAL MAP
HAIRDIN MAIN DRAIN		
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07	IFRAP-P05/HMD-02	PLAN AND PROFILE OF HAIRDIN MAIN DRAIN SHEET (02 OF 20)
08	IFRAP-P05/HMD-03	PLAN AND PROFILE OF HAIRDIN MAIN DRAIN SHEET (03 OF 20)
09	IFRAP-P05/HMD-04	PLAN AND PROFILE OF HAIRDIN MAIN DRAIN SHEET (04 OF 20)
10	IFRAP-P05/HMD-05	PLAN AND PROFILE OF HAIRDIN MAIN DRAIN SHEET (05 OF 20)
11	IFRAP-P05/HMD-06	PLAN AND PROFILE OF HAIRDIN MAIN DRAIN SHEET (06 OF 20)
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14	IFRAP-P05/HMD-09	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (0+400 TO 0+700)
15	IFRAP-P05/HMD-10	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (0+800 TO 1+100)
16	IFRAP-P05/HMD-11	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (1+200 TO 1+500)
17	IFRAP-P05/HMD-12	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (1+600 TO 1+900)
18	IFRAP-P05/HMD-13	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (2+000 TO 2+300)
19	IFRAP-P05/HMD-14	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (2+400 TO 2+700)
20	IFRAP-P05/HMD-15	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (2+800 TO 3+100)
21	IFRAP-P05/HMD-16	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (3+200 TO 3+500)
22	IFRAP-P05/HMD-17	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (3+600 TO 3+900)
23	IFRAP-P05/HMD-18	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (4+000 TO 4+300)
24	IFRAP-P05/HMD-19	CROSS SECTIONS OF HAIRDAIN DRAIN AT RD (4+400 TO 4+700)
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STRUCTURE		
26	IFRAP-P05/HMD-21	TYPICAL PLAN AND SECTION A-A OF CULVERT (3-CELL)

ABBREVIATIONS	
C NO	CURVE NUMBER
PE	POINT OF ENTRY (CHAINAGE OF START OF CURVE)
E	EASTING COORDINATE OF CURVE POINT
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	RELATIONSHIP (FOR UNDERSTANDING) $L = (\pi \times R \times \Delta) / 180$ $T = R \times \tan(\Delta / 2)$ $E = R [\sec(\Delta/2) - 1]$ $C = 2R \sin(\Delta/2)$



TENDER DRAWINGS

CLIENT:



IRRIGATION DEPARTMENT
GOVERNMENT OF
BALOCHISTAN

CONSULTANTS:

CAMEOS
CONSULTANTS
CONSULTING ENGINEERS ARCHITECTS & PLANNERS.
PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD.
H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.

PROJECT TITLE:

**INTEGRATED FLOOD RESILIENCE AND
ADAPTATION PROJECT**

SCHEME NAME:

**RESTORATION / STRENGTHENING OF
EMBANKMENT OF HAIRDIN MAIN DRAIN
FROM RD.0 TO RD.62 AND CONSTRUCTION
OF 3 NOS VRB AT DIFFERENT PLACES
DISTRICT SOHBAT PUR**

DRAWING TITLE:-

PROJECT LOCATION AREA MAP

NOTES:

ALL LEVELS AND DIMENSIONS ARE
IN METERS UNLESS INDICATED
OTHERWISE.

DRAWN BY: FAISAL / USAMA

DESIGNED BY: KAMRAN BABAR

CHECKED BY: ZIA-UL-HAQ

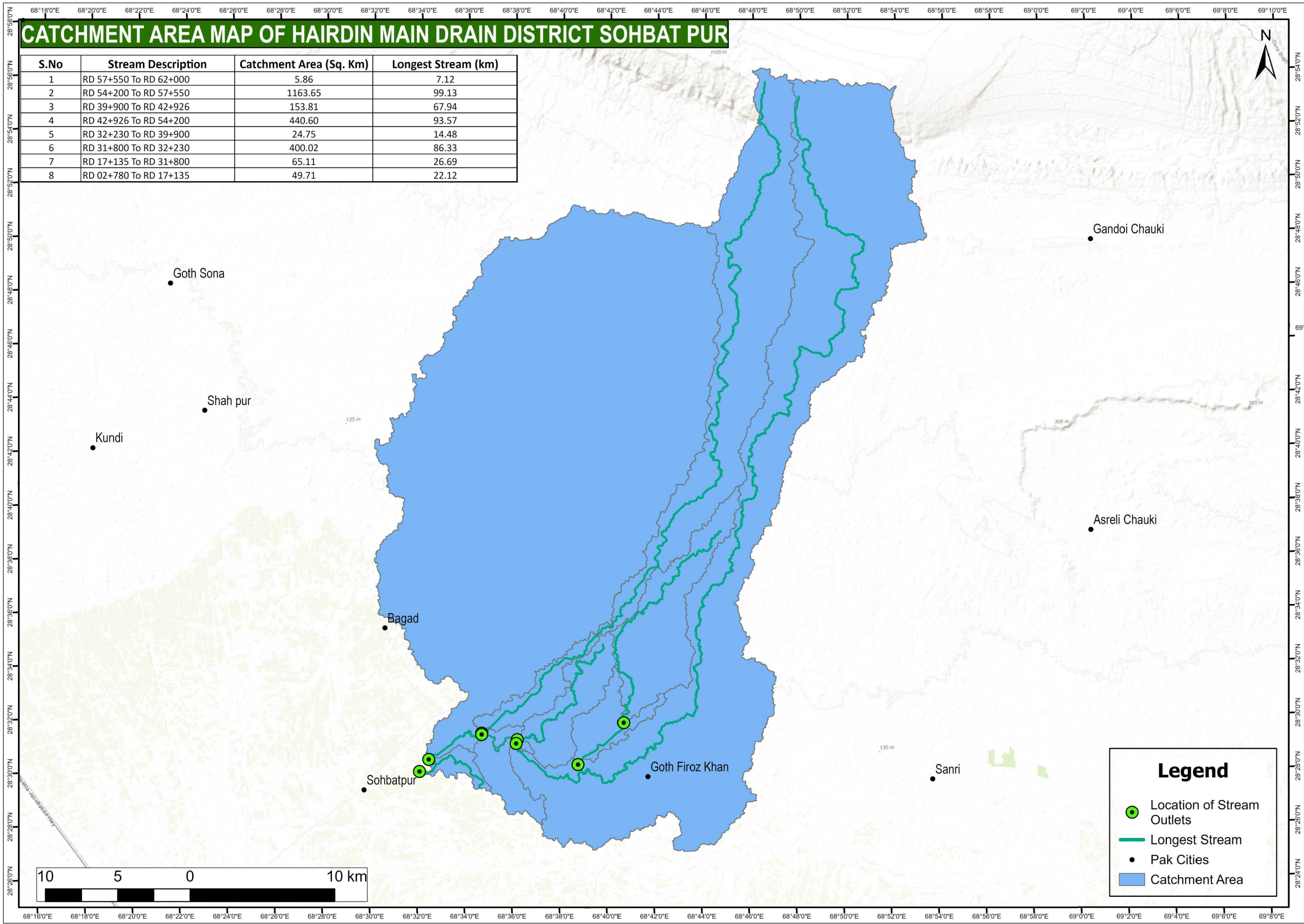
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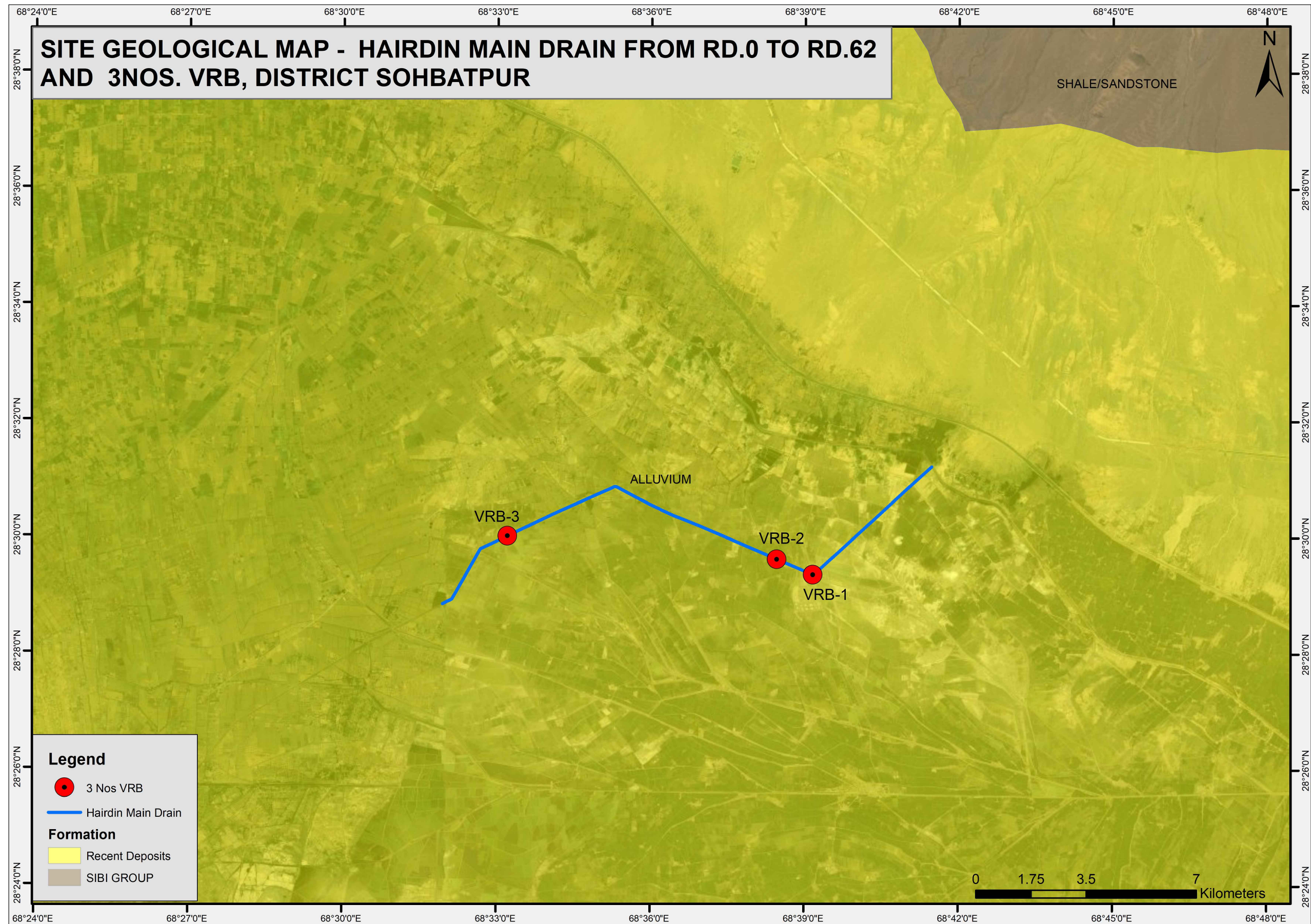
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SHEET:- 02 OF 03



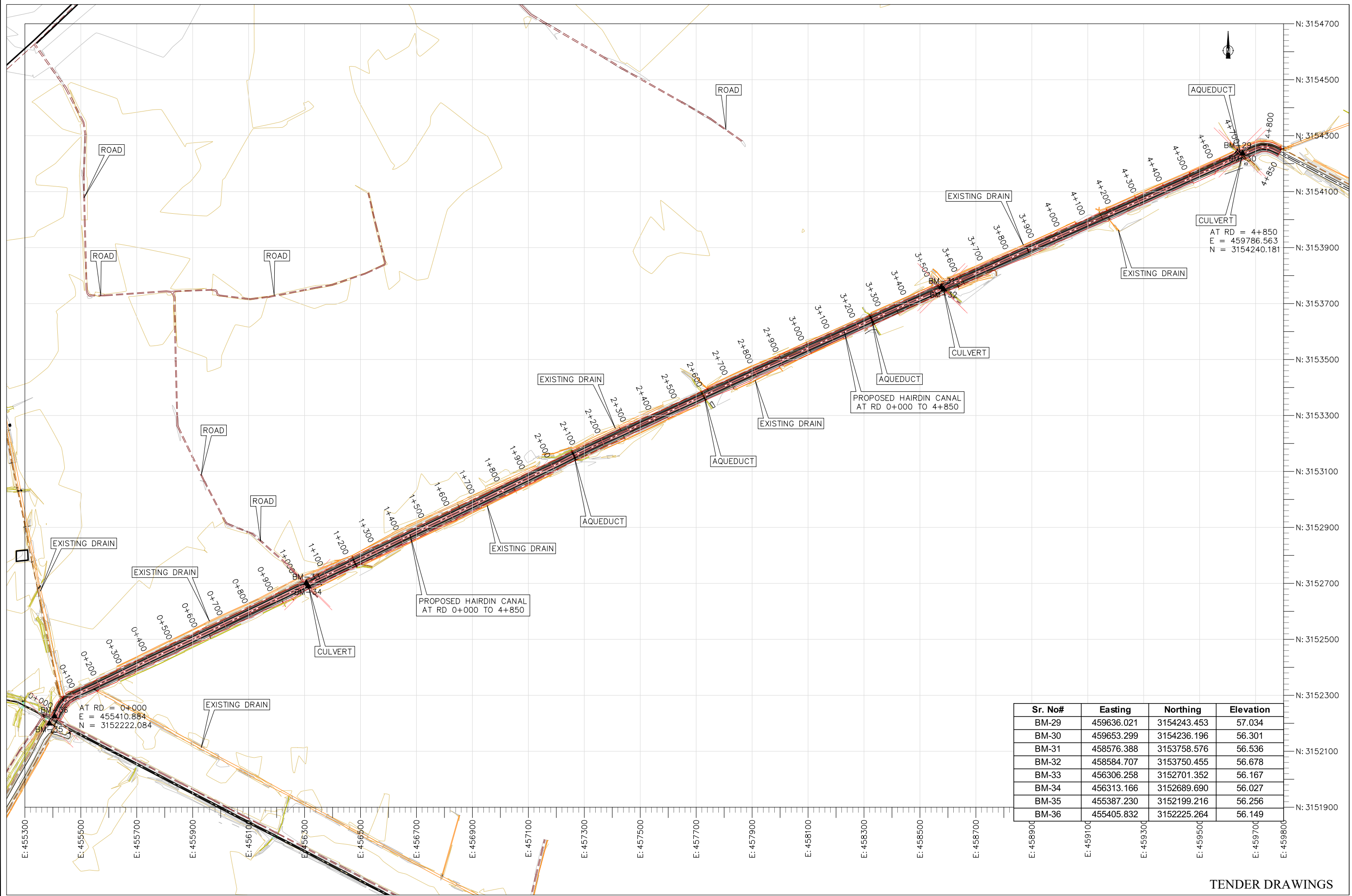
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CLIENT:  IRRIGATION DEPARTMENT GOVERNMENT OF BALOCHISTAN	CONSULTANTS: CAMEOS CONSULTANTS CONSULTING ENGINEERS ARCHITECTS & PLANNERS. PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD. H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.	PROJECT TITLE: INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT	SCHEME NAME: RESTORATION / STRENGTHENING OF EMBANKMENT OF HAIRDIN MAIN DRAIN FROM RD.0 TO RD.62 AND CONSTRUCTION OF 3 NOS VRB AT DIFFERENT PLACES DISTRICT SOHAT PUR	DRAWING TITLE:- CATCHMENT AREA MAP	NOTES: ALL LEVELS AND DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.	DRAWN BY: FAISAL / USAMA	DESIGNED BY: KAMRAN BABAR
						CHECKED BY: ZIA-UL-HAQ	SCALE: N:T:S
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						DRAWING NO: IFRAP-P05/HDM-03	SHEET:- 03 OF 03

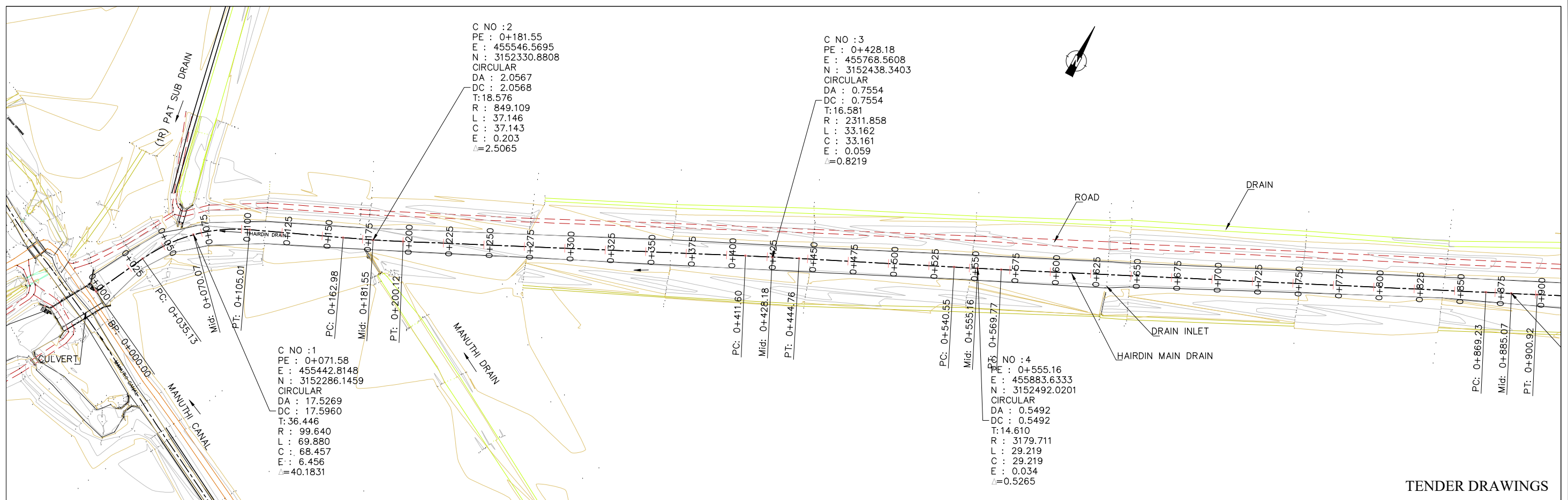


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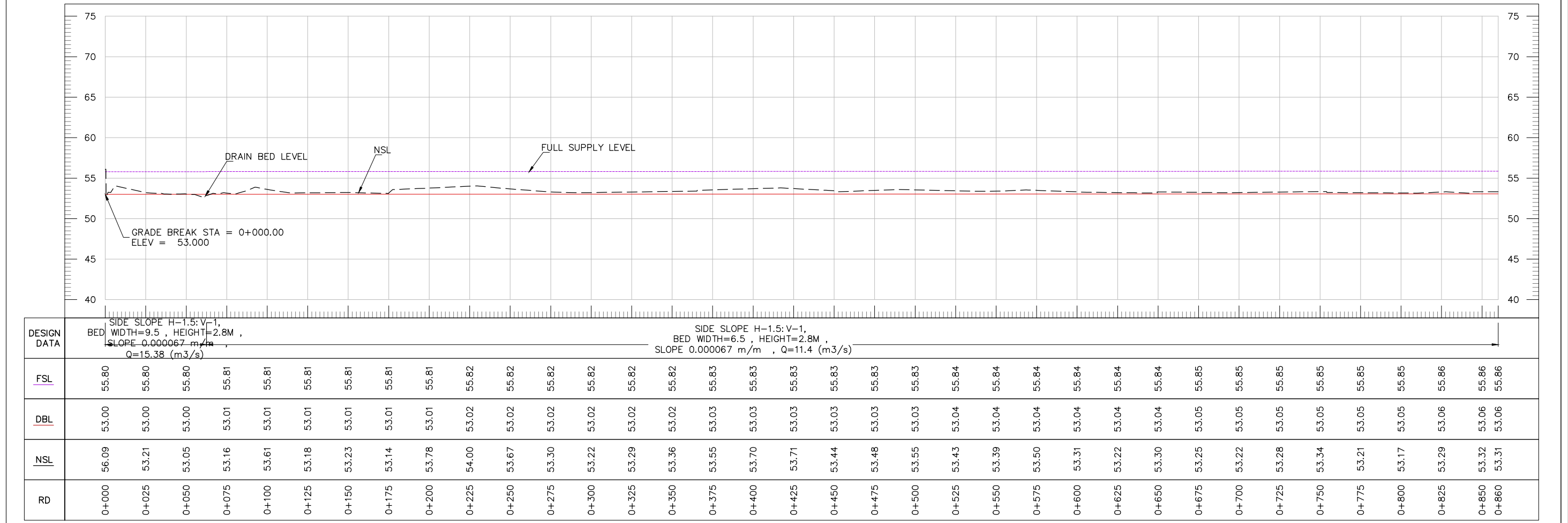
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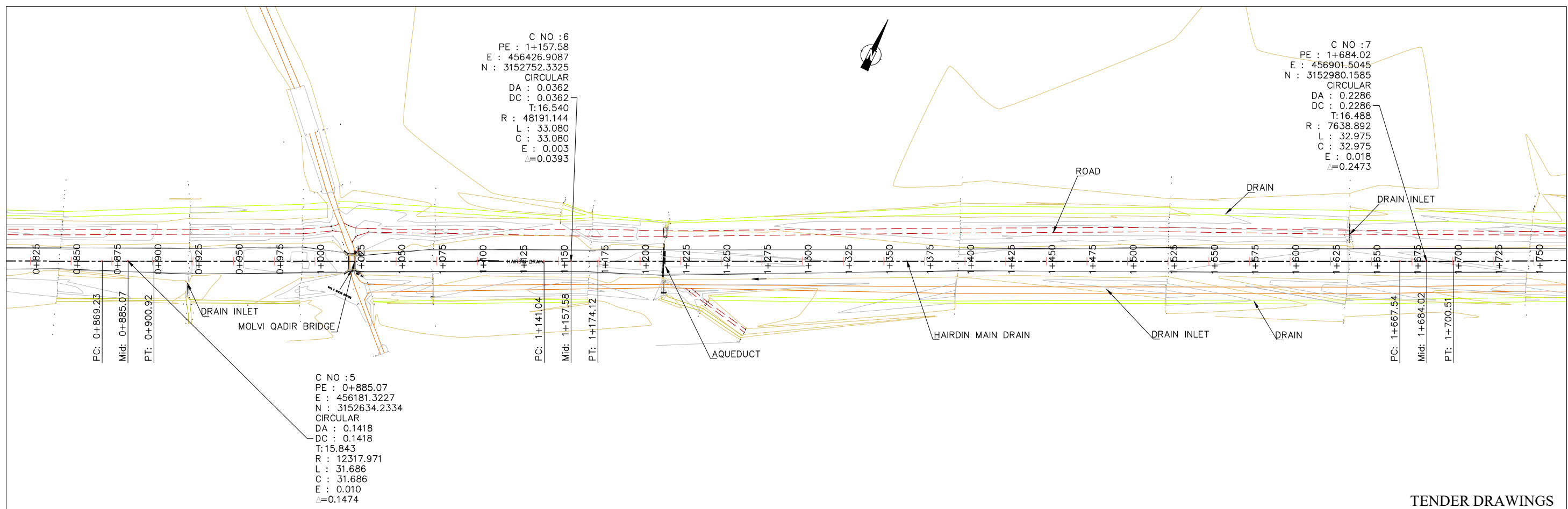


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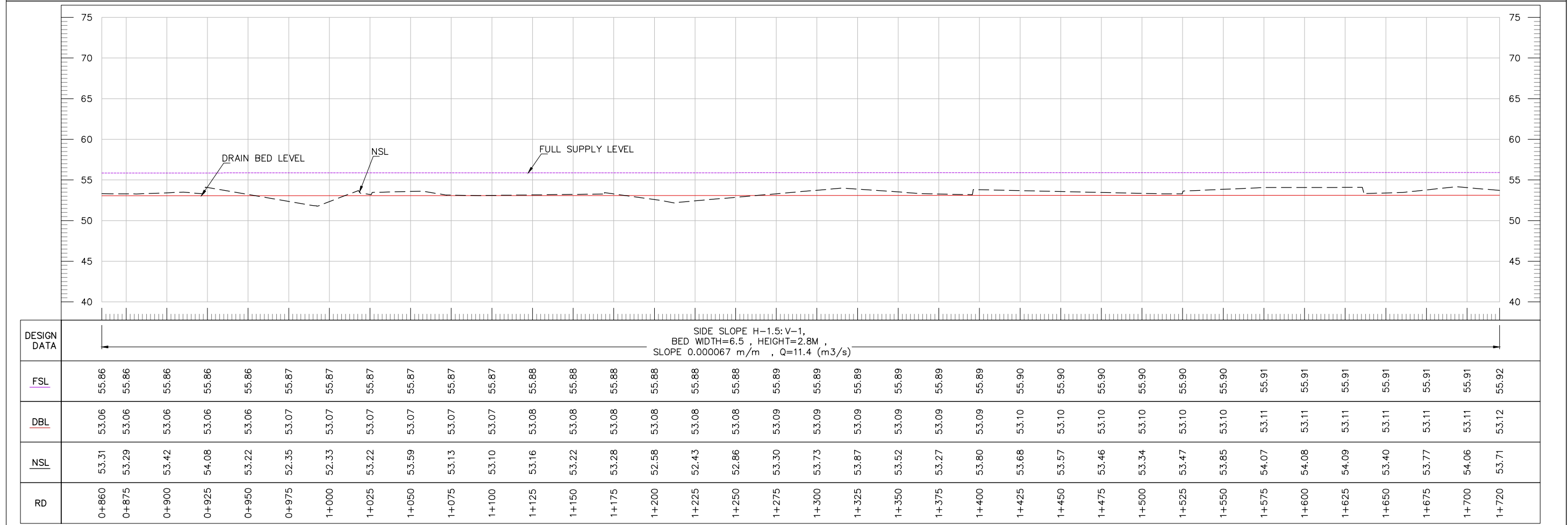


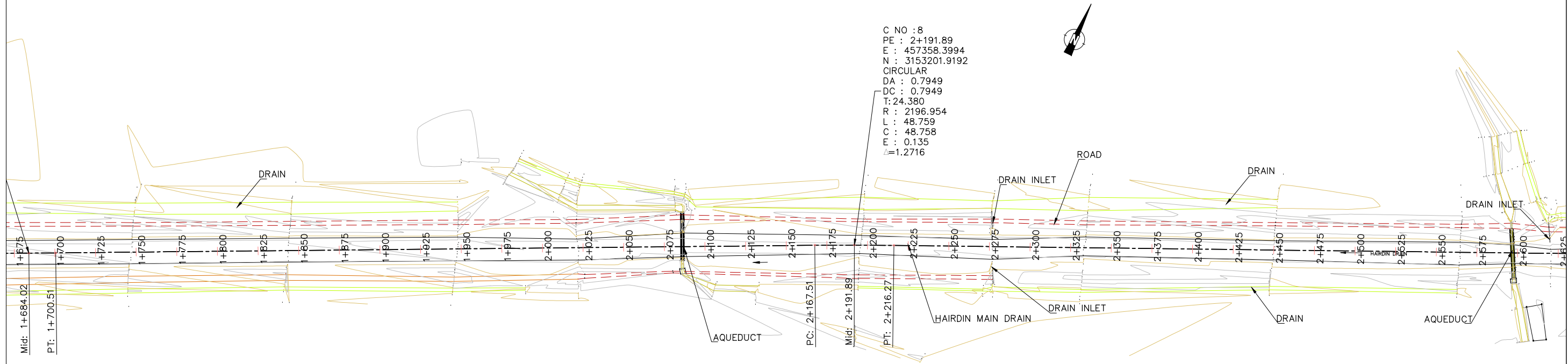
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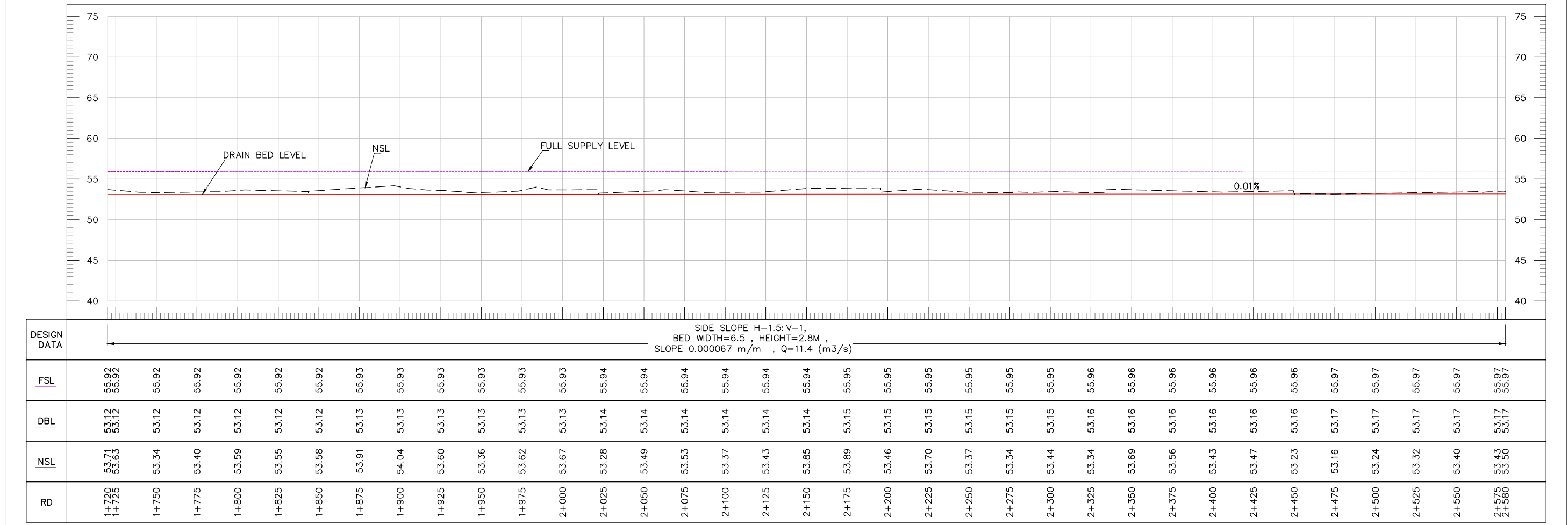


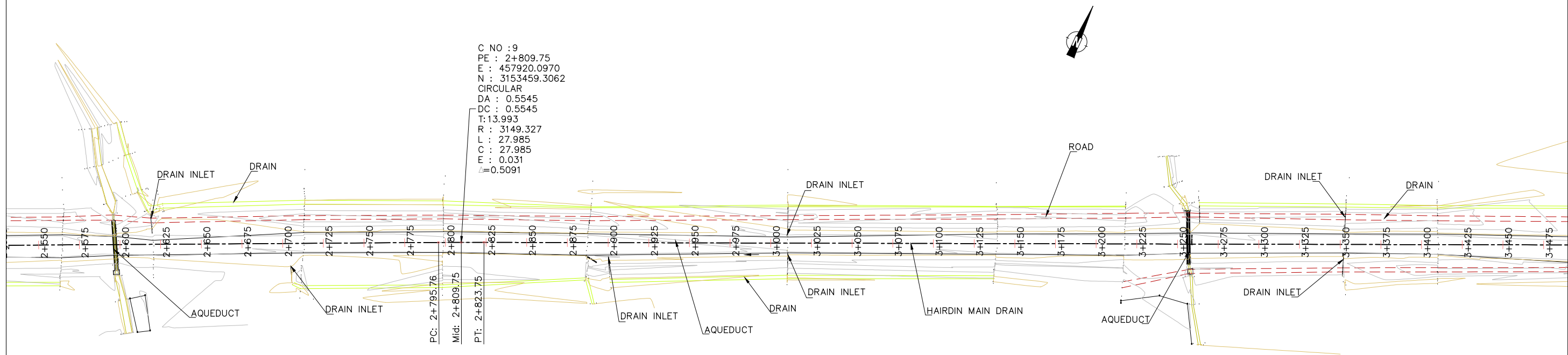
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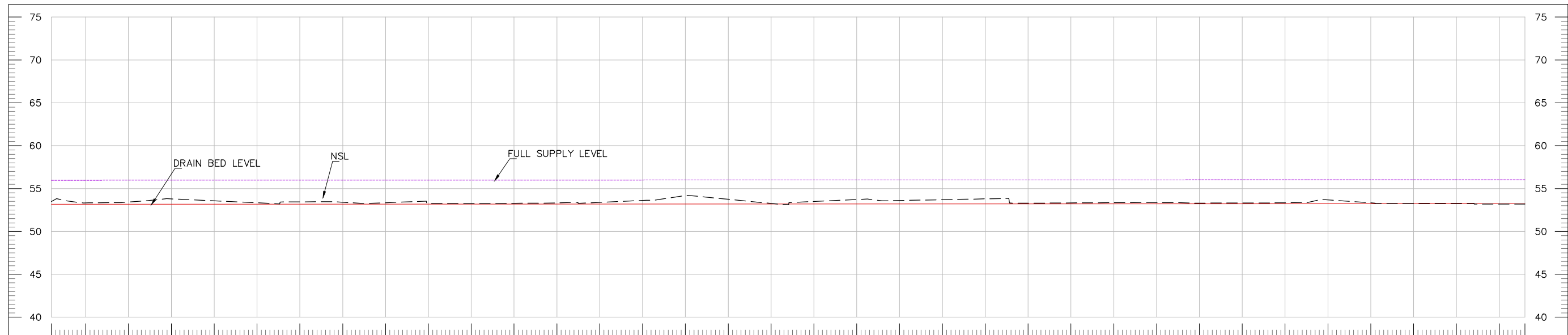


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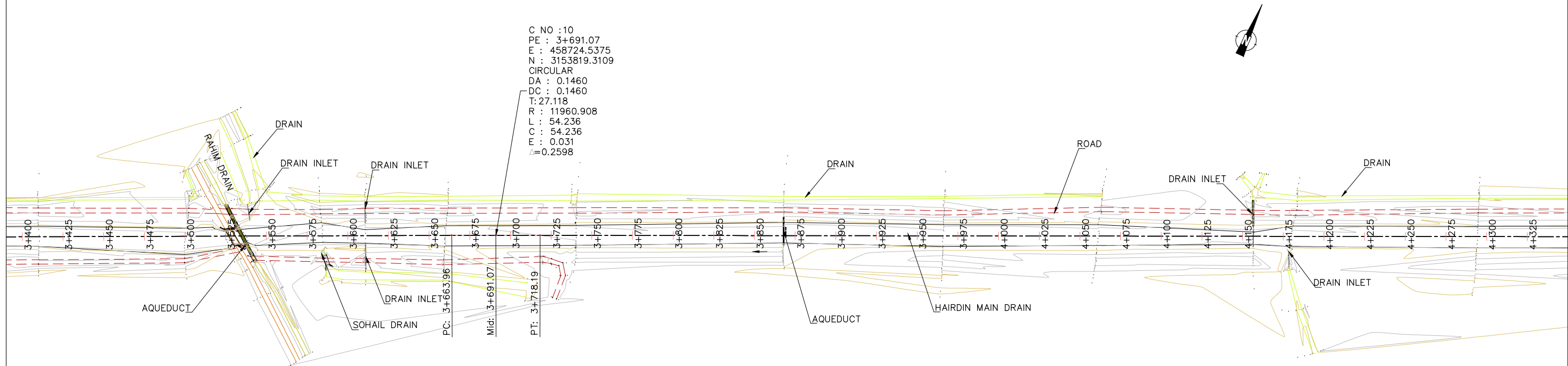




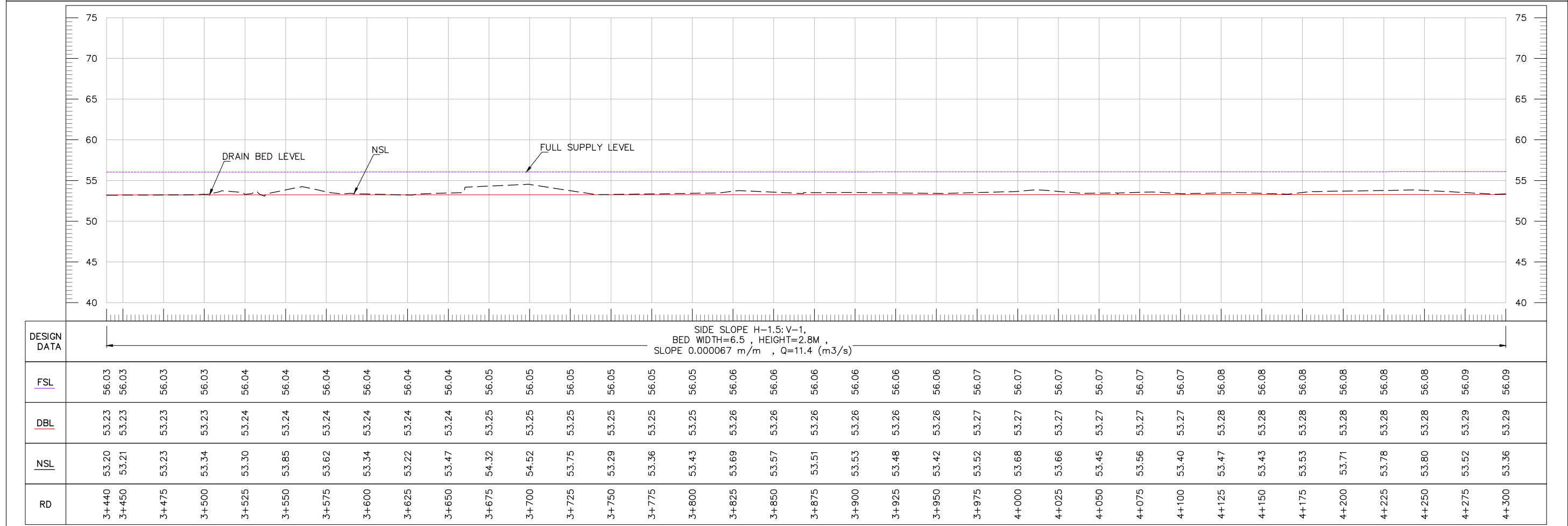
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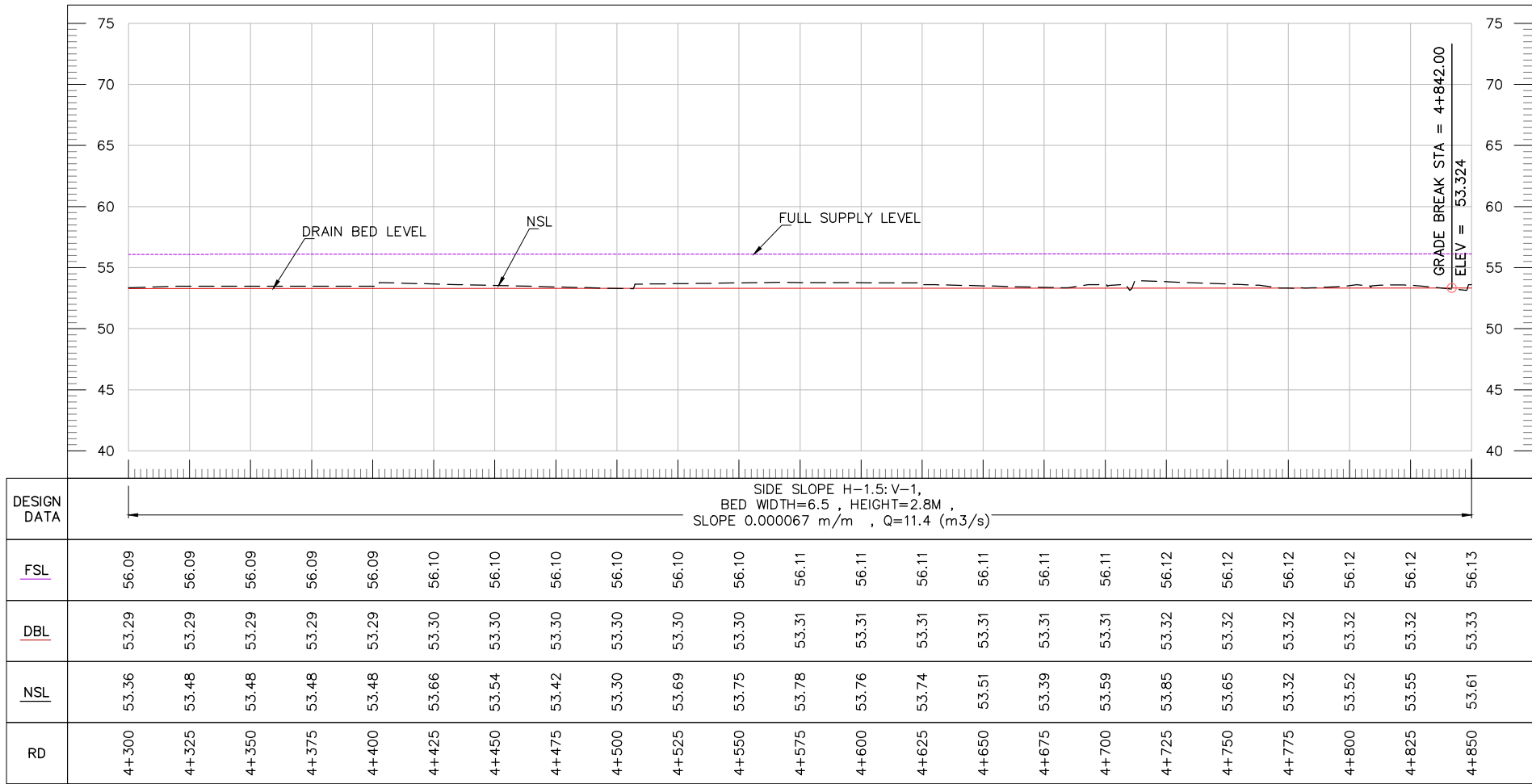
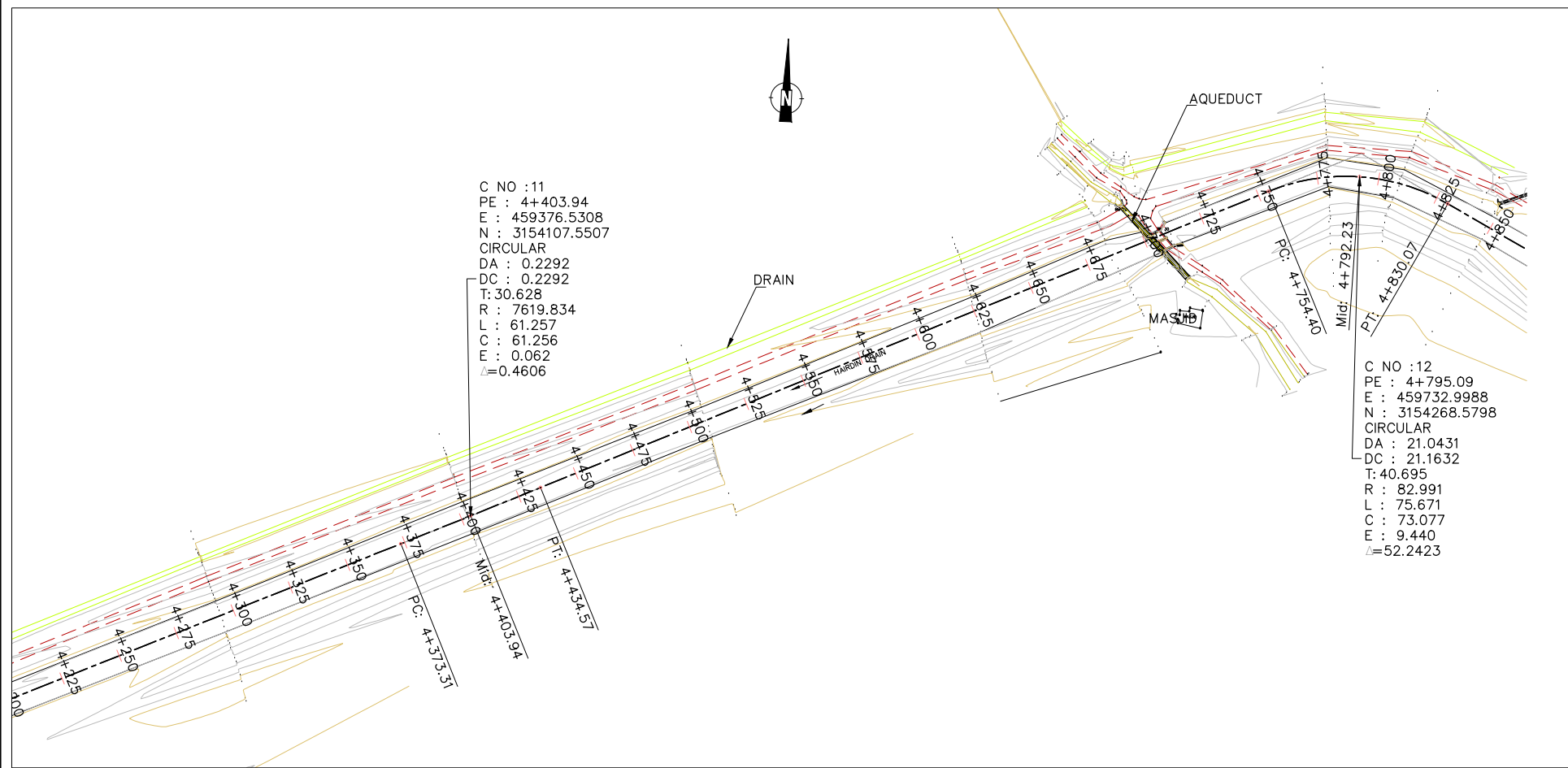


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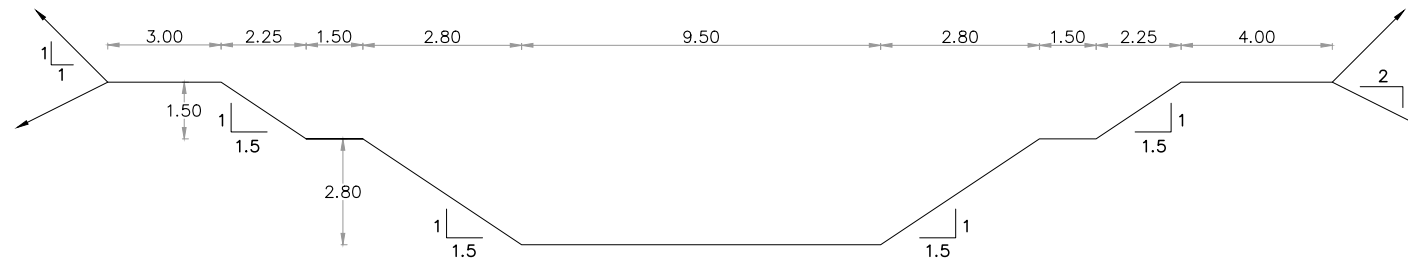


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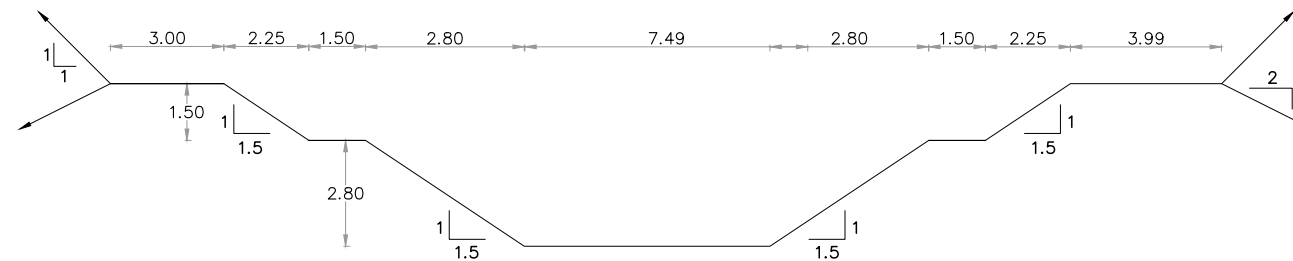




TENDER DRAWINGS



AT RD 0+000 TO 0+049



AT RD 0+049 TO 4+850

TENDER DRAWINGS

CLIENT:



IRRIGATION DEPARTMENT
GOVERNMENT OF
BALOCHISTAN

CONSULTANTS:



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CONSULTING ENGINEERS ARCHITECTS & PLANNERS.
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RESTORATION / STRENGTHENING OF
EMBANKMENT OF HAIRDIN MAIN DRAIN
FROM RD.0 TO RD.62 AND CONSTRUCTION
OF 3 NOS VRB AT DIFFERENT PLACES
DISTRICT SOHBA PUR

DRAWING TITLE:-

TYPICAL CROSS SECTION OF
HAIRDIN MAIN DRAIN

NOTES:

ALL LEVELS AND DIMENSIONS ARE
IN METERS UNLESS INDICATED
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DRAWN BY: FAISAL / USAMA

DESIGNED BY: KAMRAN BABAR

CHECKED BY: ZIA-UL-HAQ

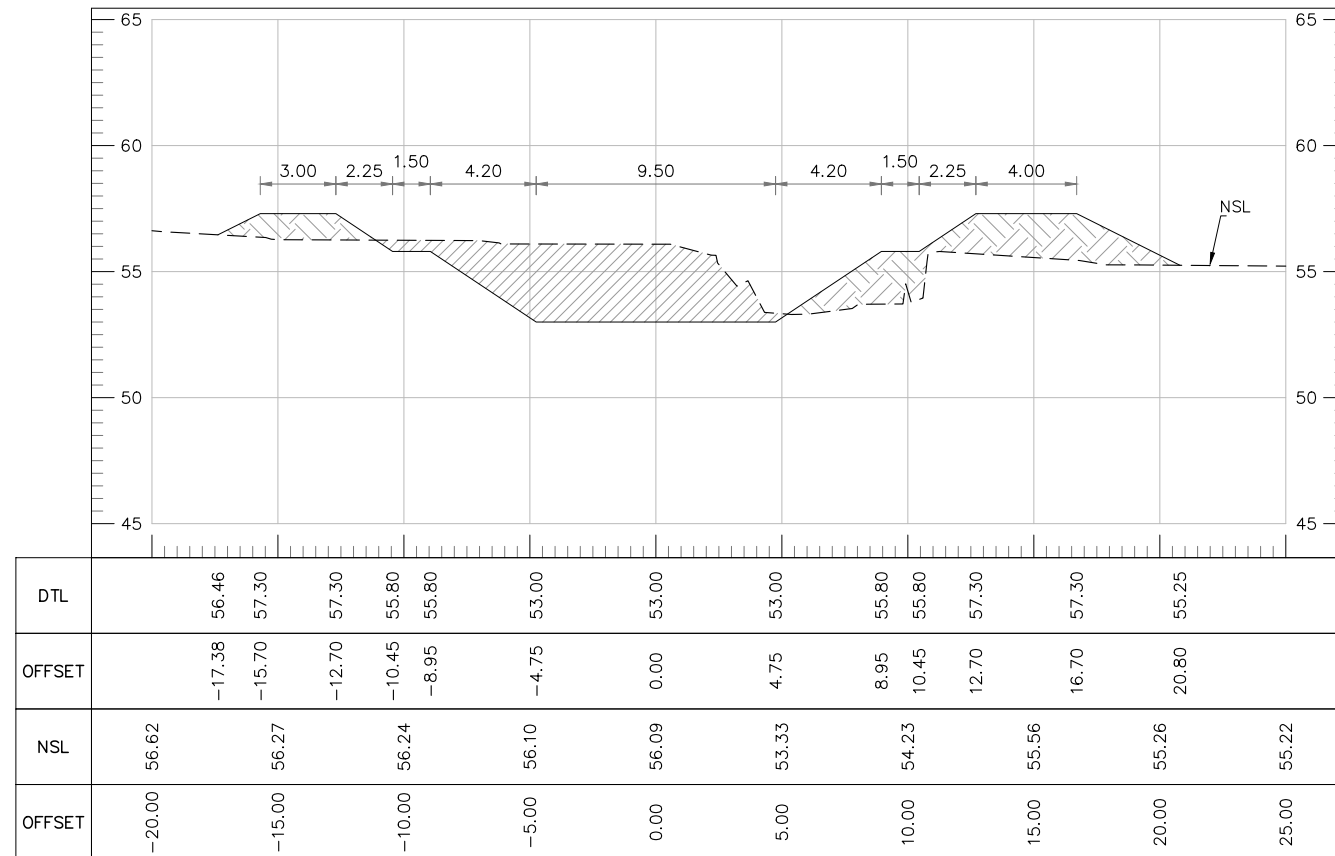
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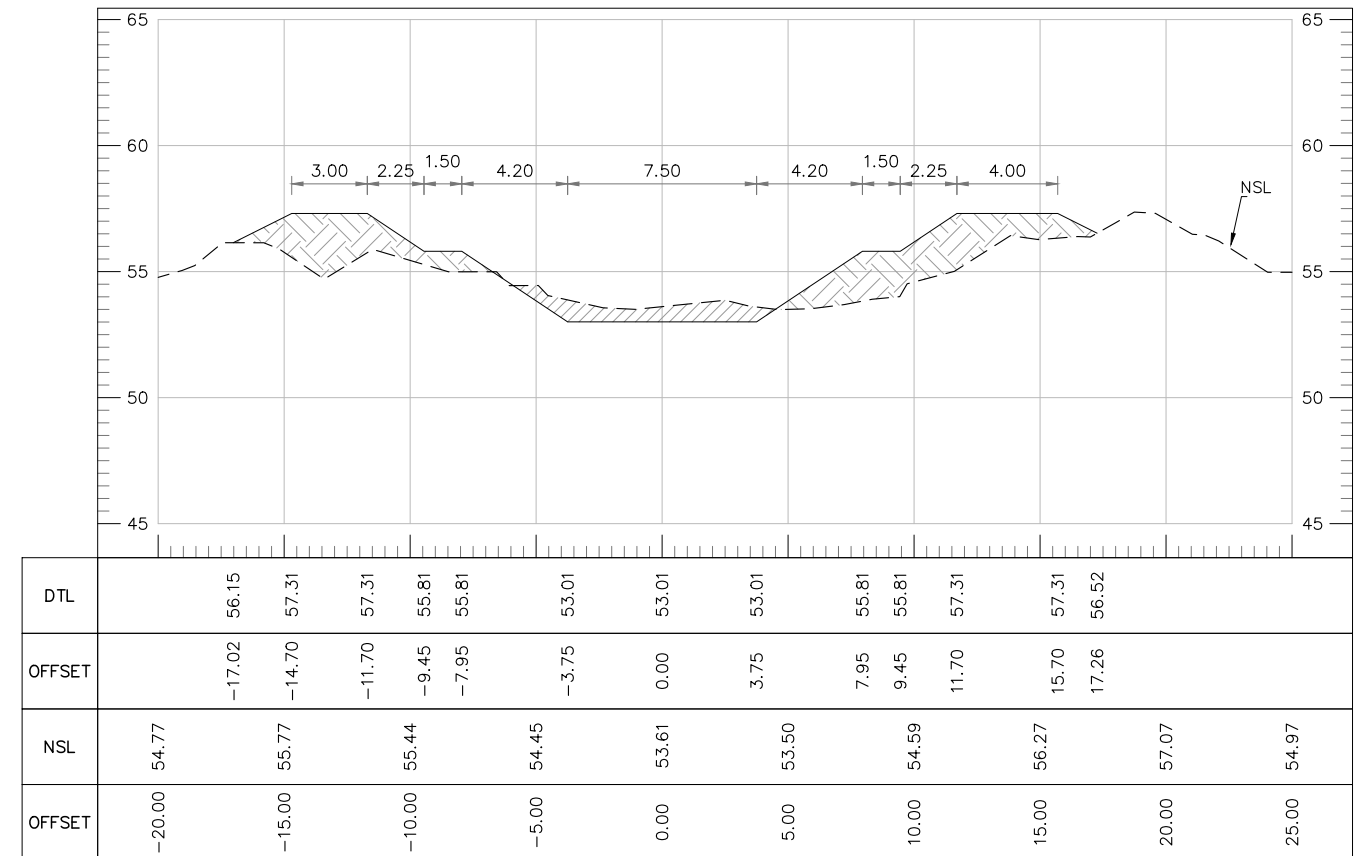
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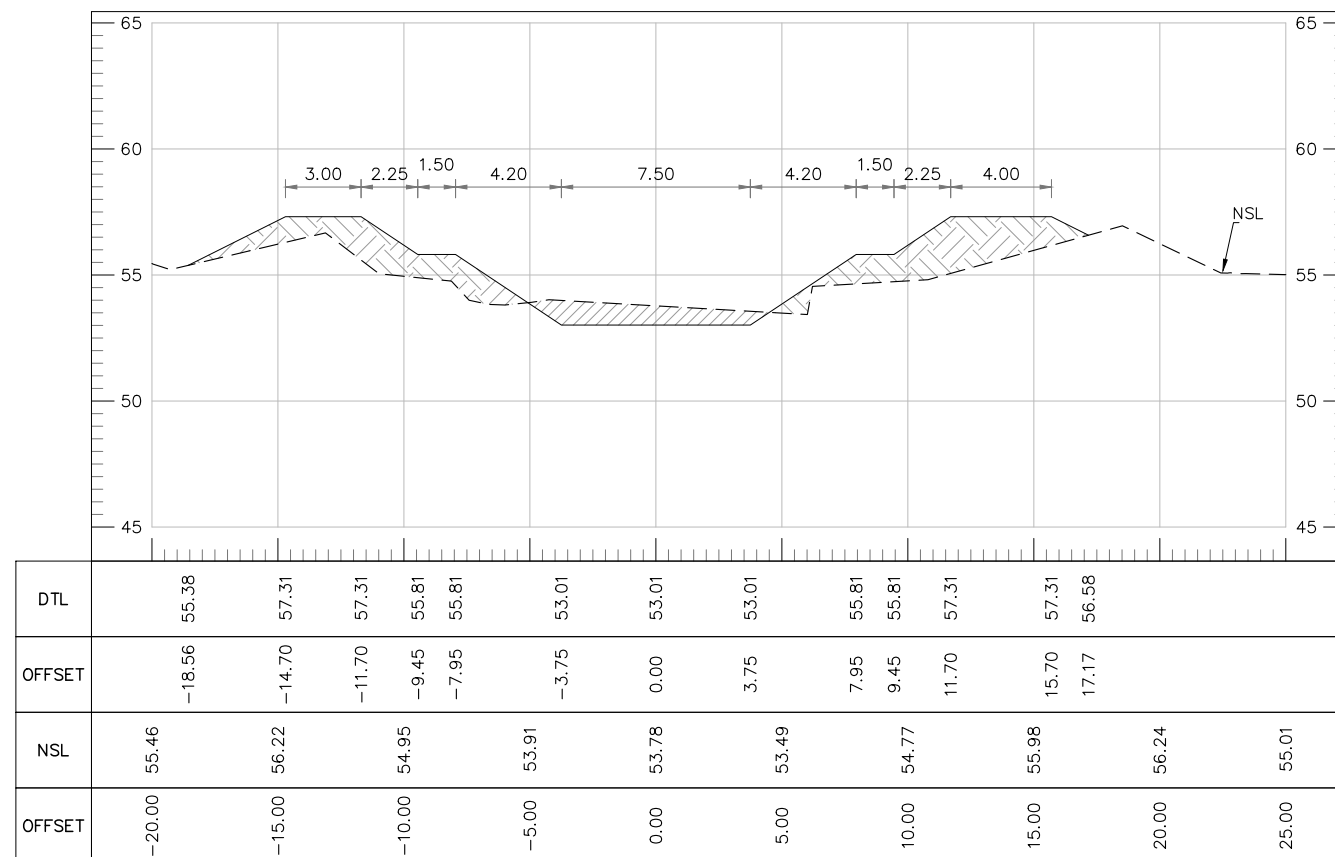
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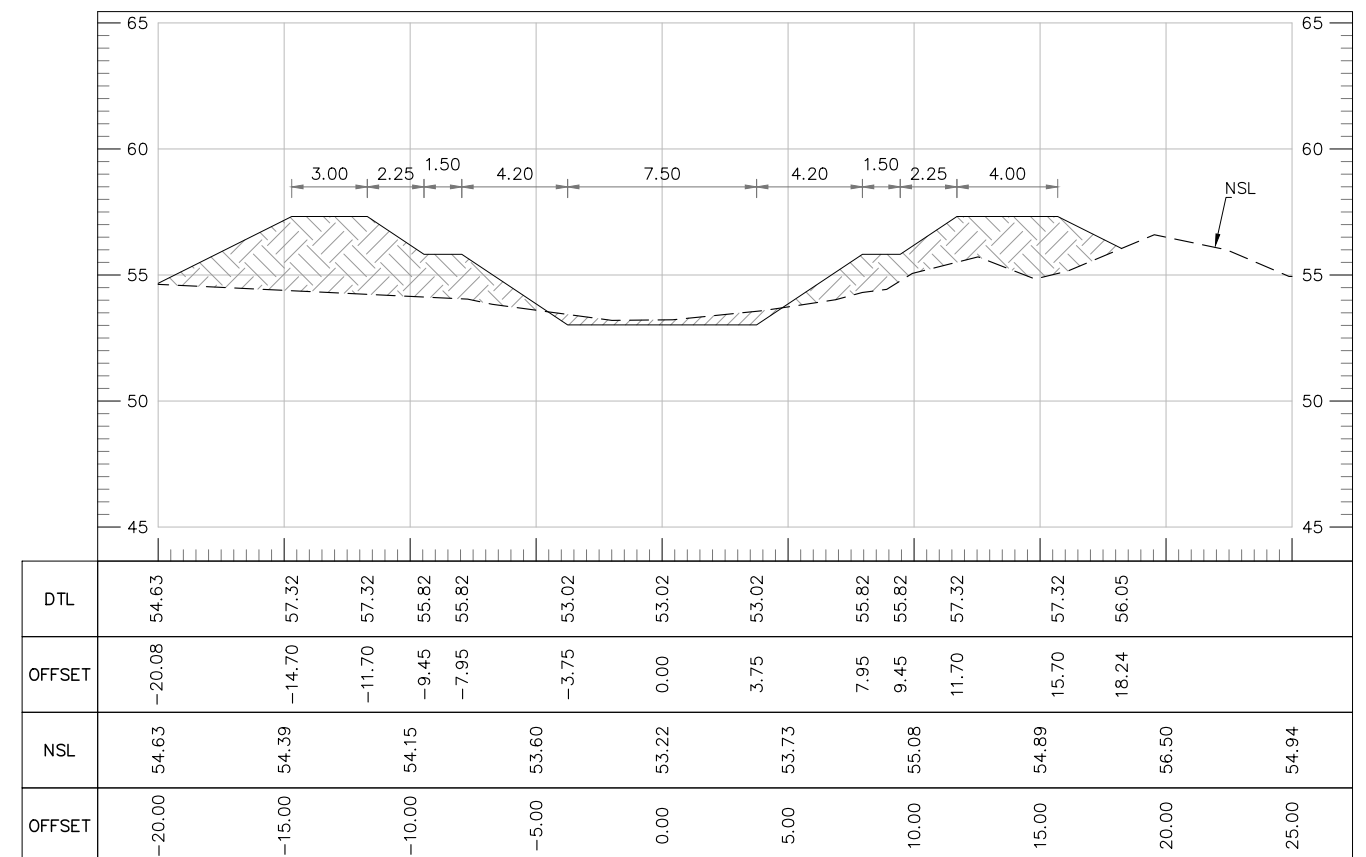
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AT RD 0+100.00



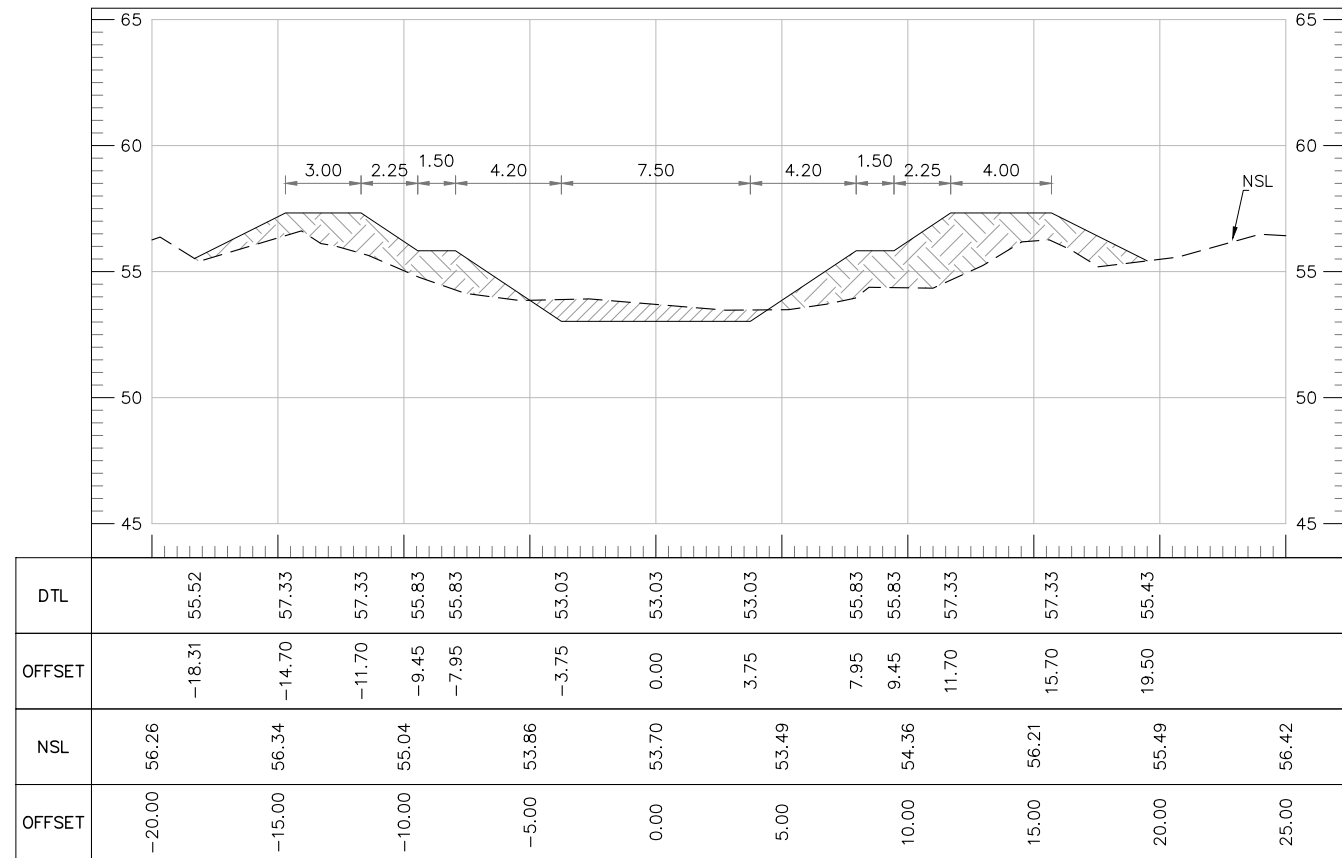
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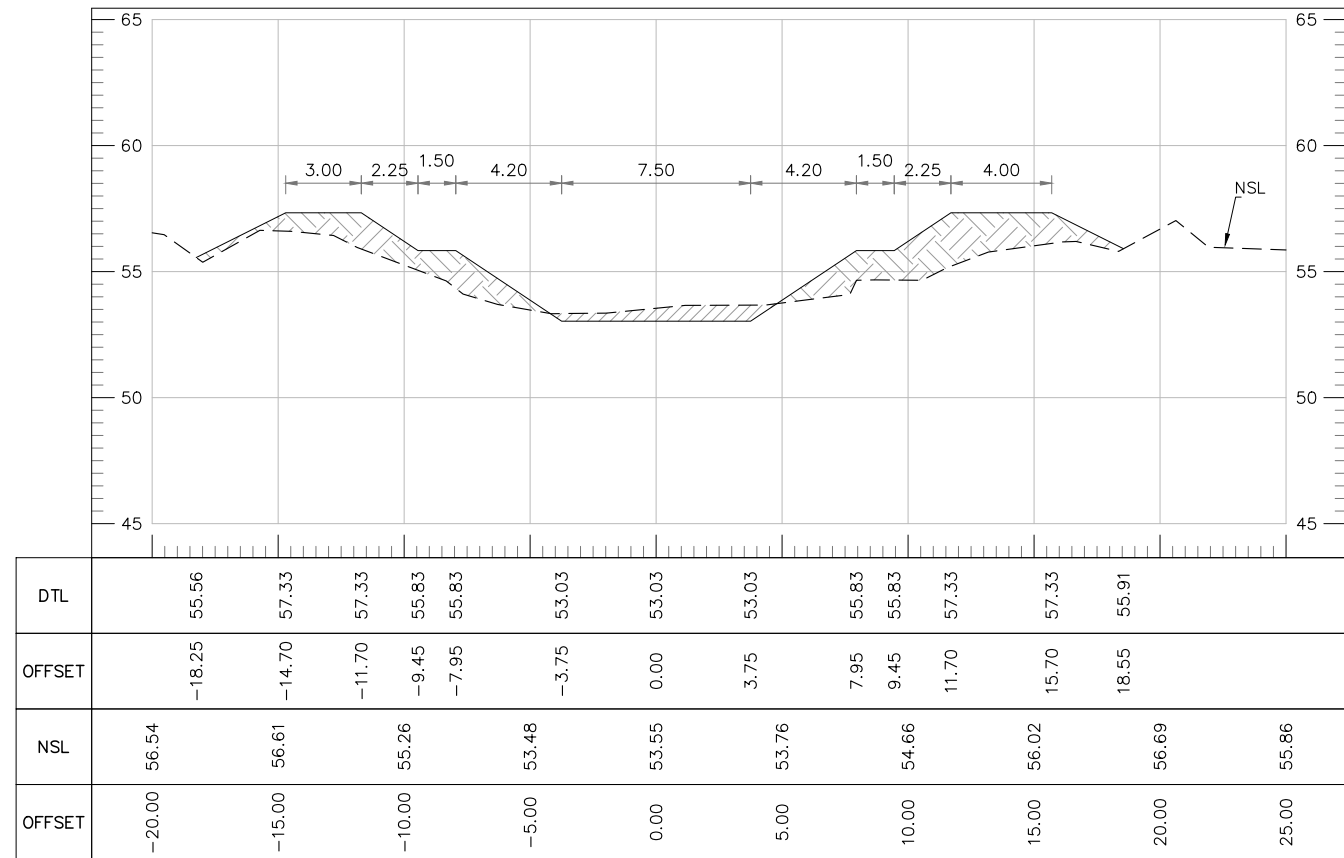
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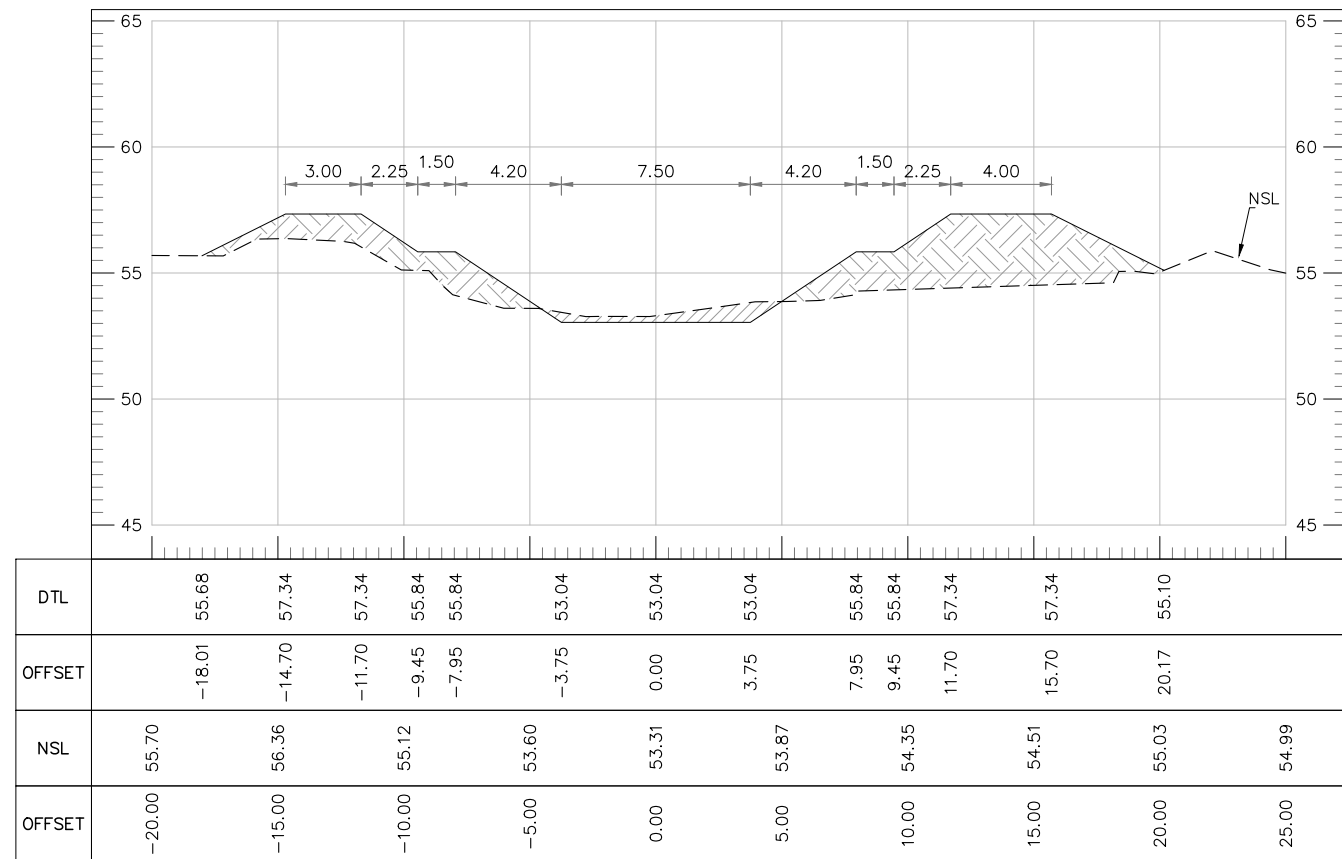
CLIENT:  IRRIGATION DEPARTMENT GOVERNMENT OF BALOCHISTAN	CONSULTANTS:  CAMEOS CONSULTANTS CONSULTING ENGINEERS ARCHITECTS & PLANNERS. PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD. H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.	PROJECT TITLE: INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT	SCHEME NAME: RESTORATION / STRENGTHENING OF EMBANKMENT OF HAIRDIN MAIN DRAIN FROM RD.0 TO RD.62 AND CONSTRUCTION OF 3 NOS VRB AT DIFFERENT PLACES DISTRICT SOHBAT PUR	DRAWING TITLE:- CROSS SECTION OF HAIRDIN DRAIN AT RD 0+000 TO 0+300	NOTES: ALL LEVELS AND DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.	DRAWN BY: FAISAL / USAMA	DESIGNED BY: KAMRAN BABAR
						CHECKED BY: ZIA-UL-HAQ	SCALE: 1:300
						FILE PATH: G/ IFRAP	DATE: AUG / 2025
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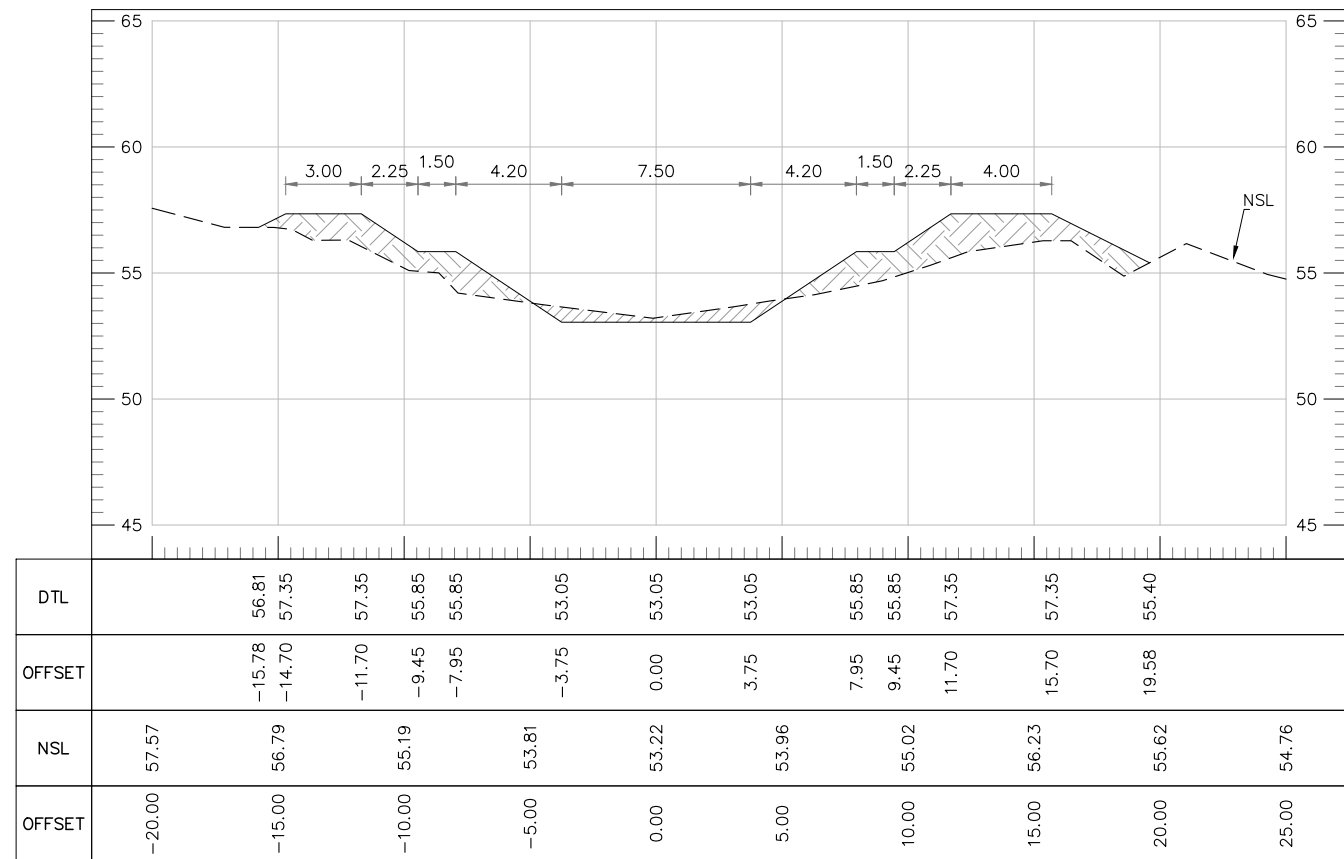
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AT RD 0+500.00

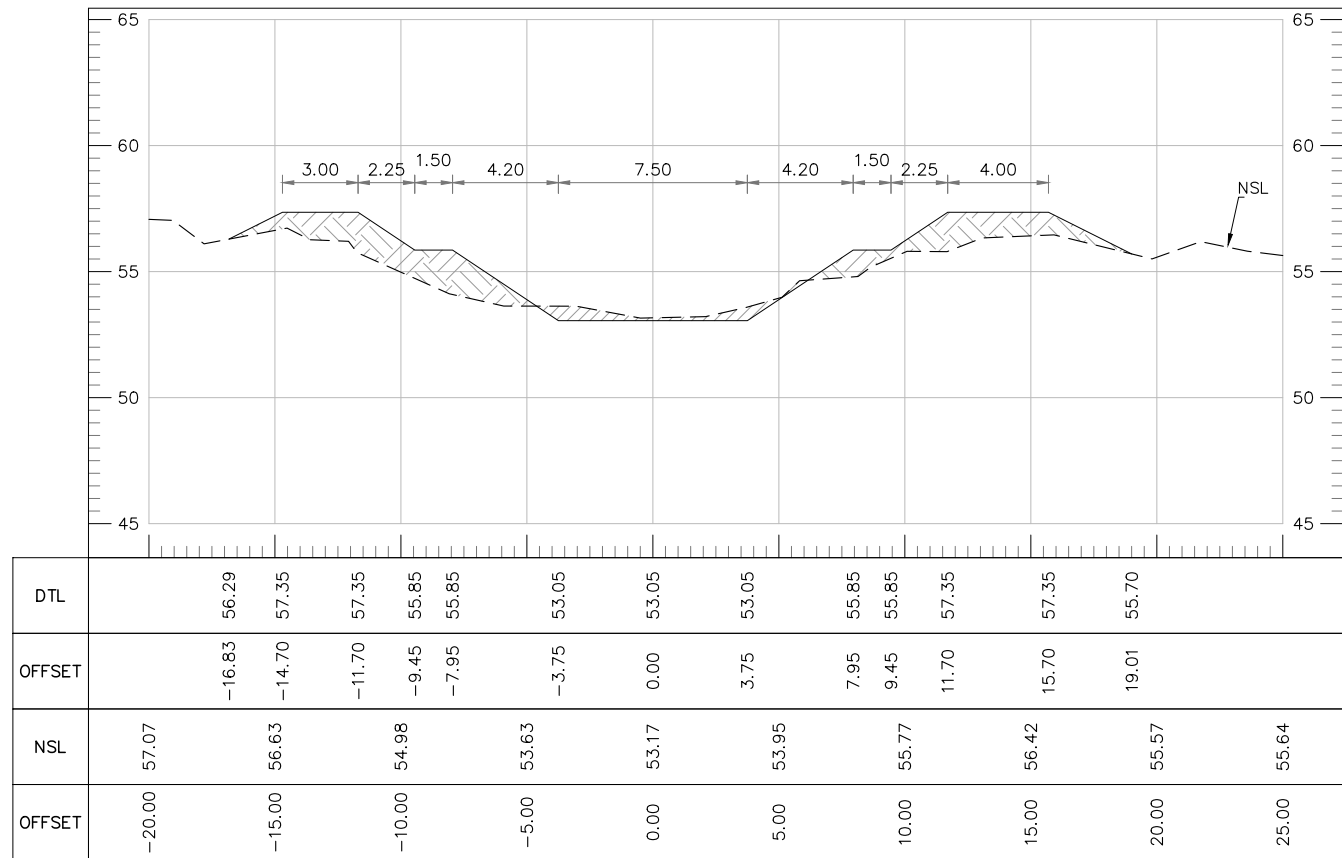


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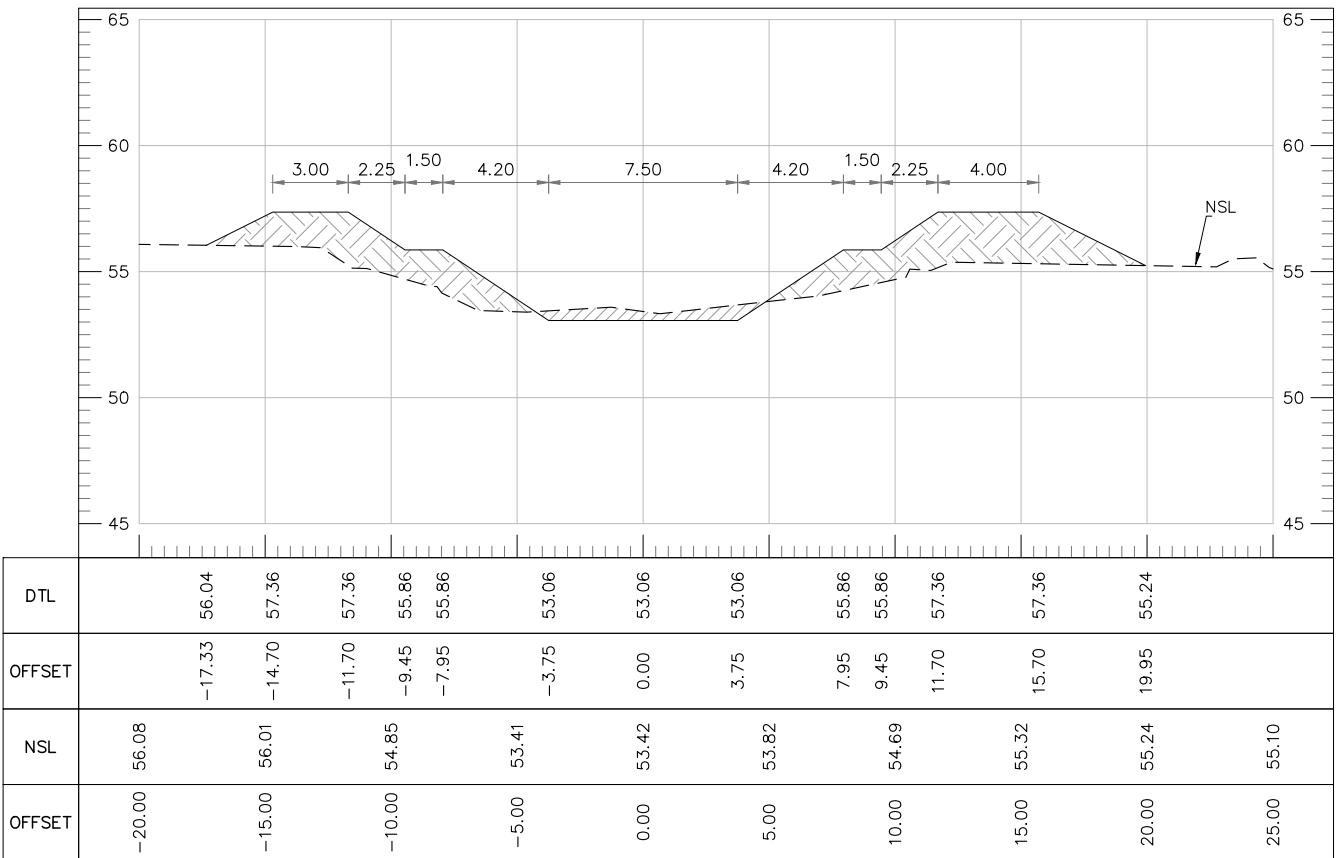


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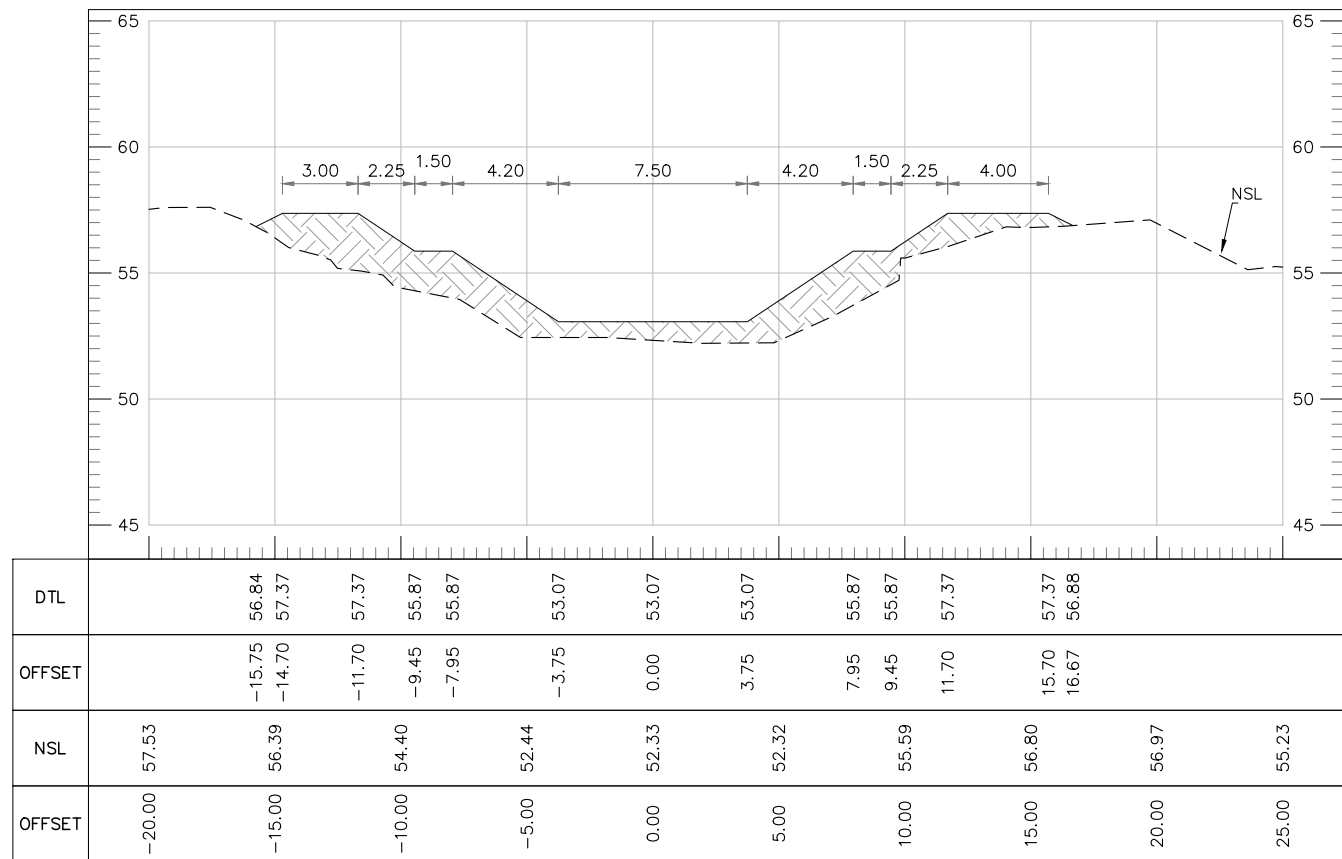
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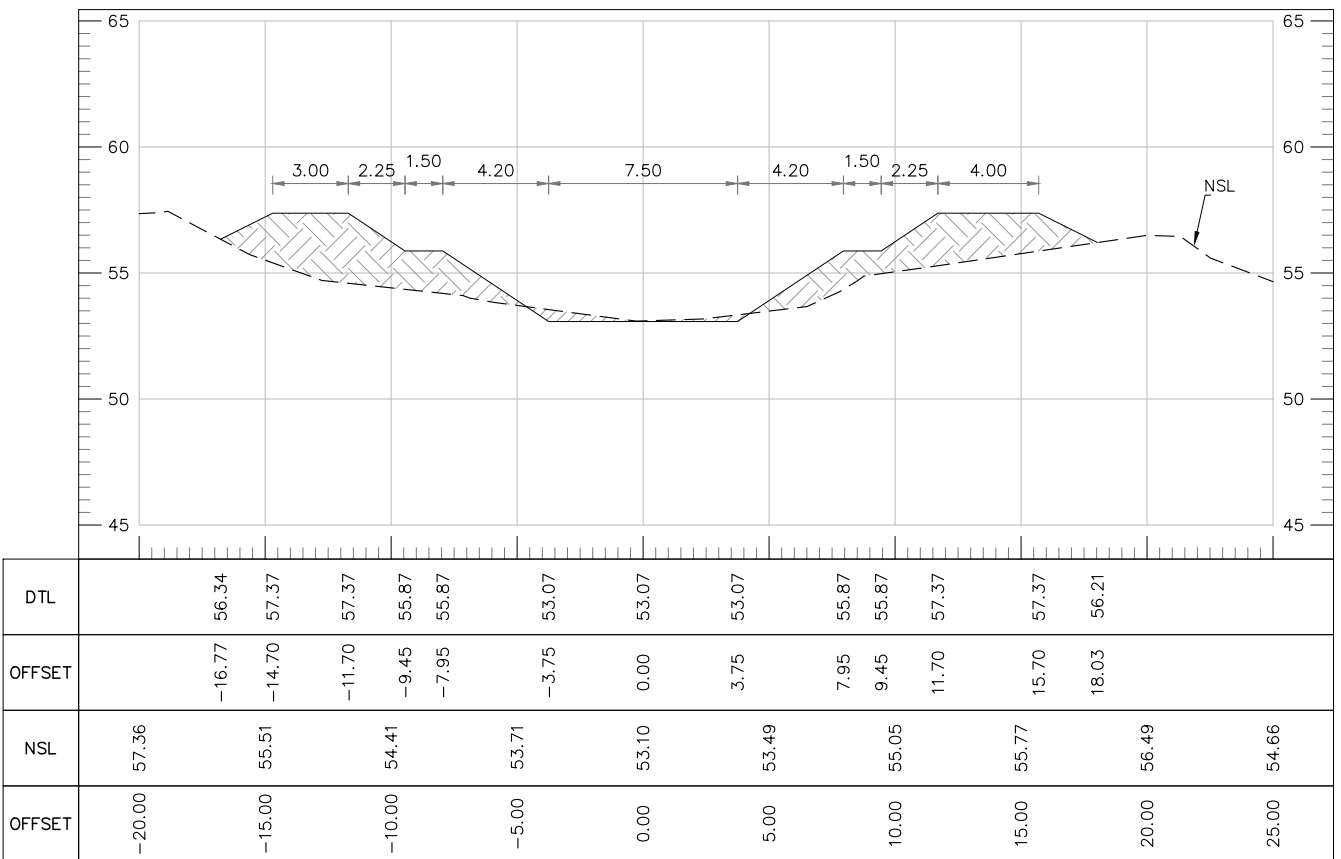
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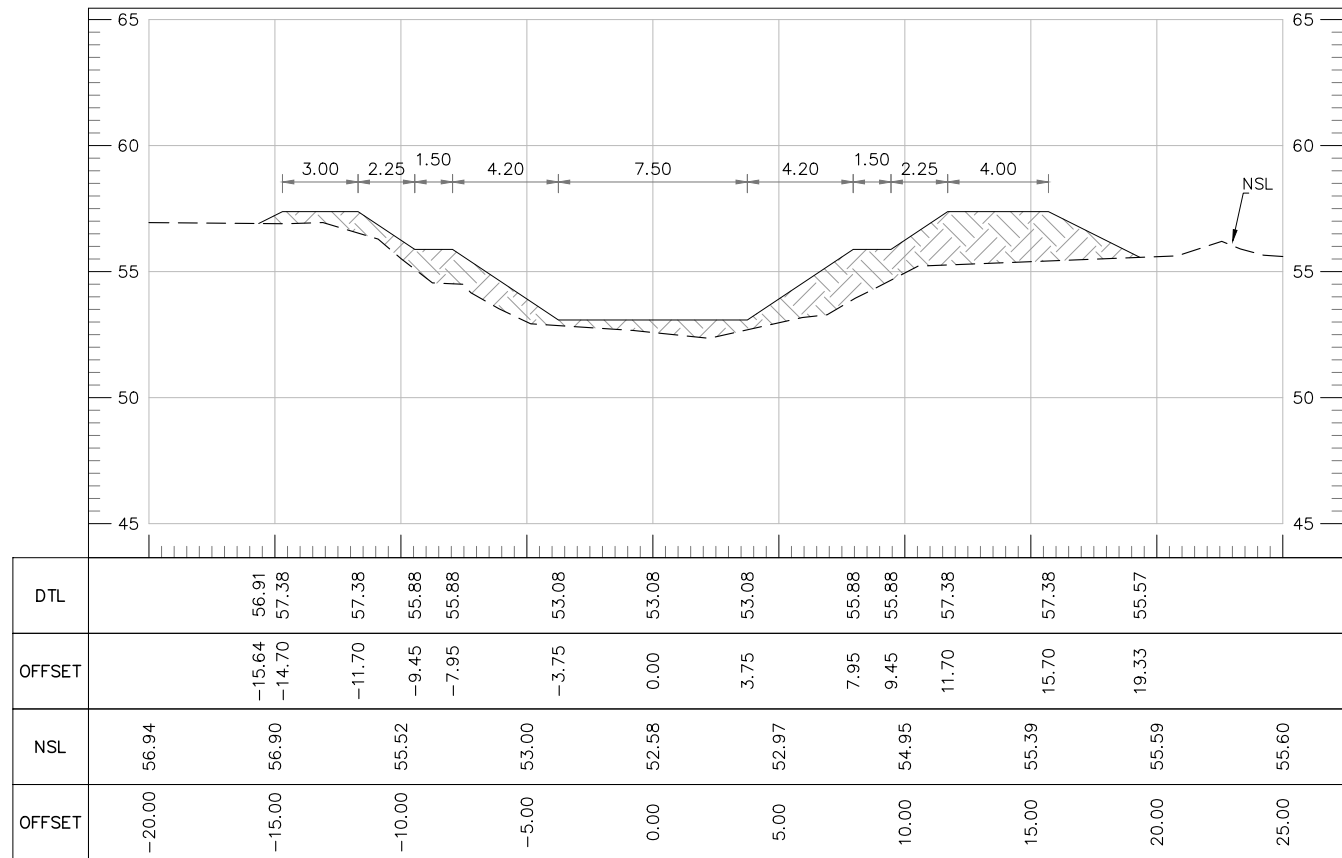


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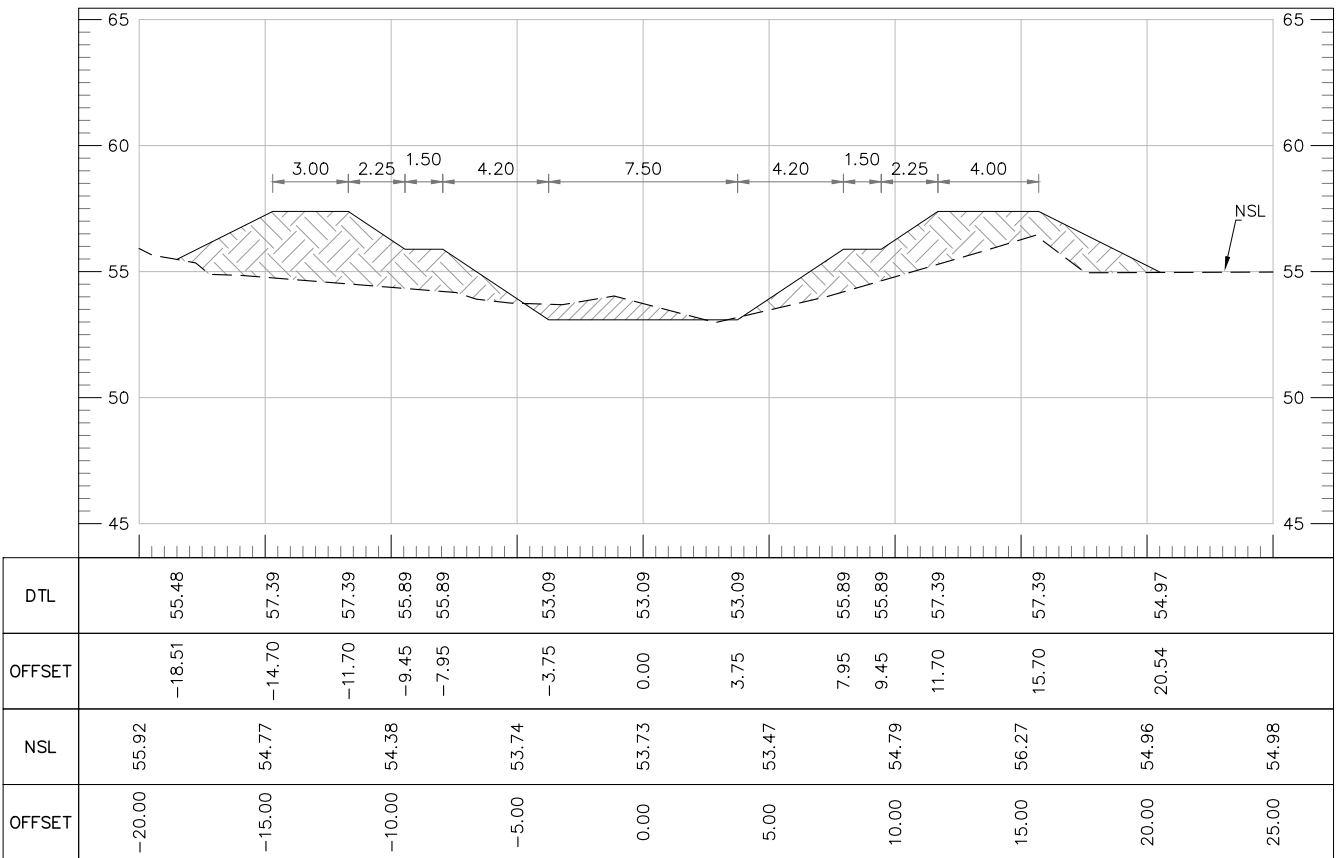


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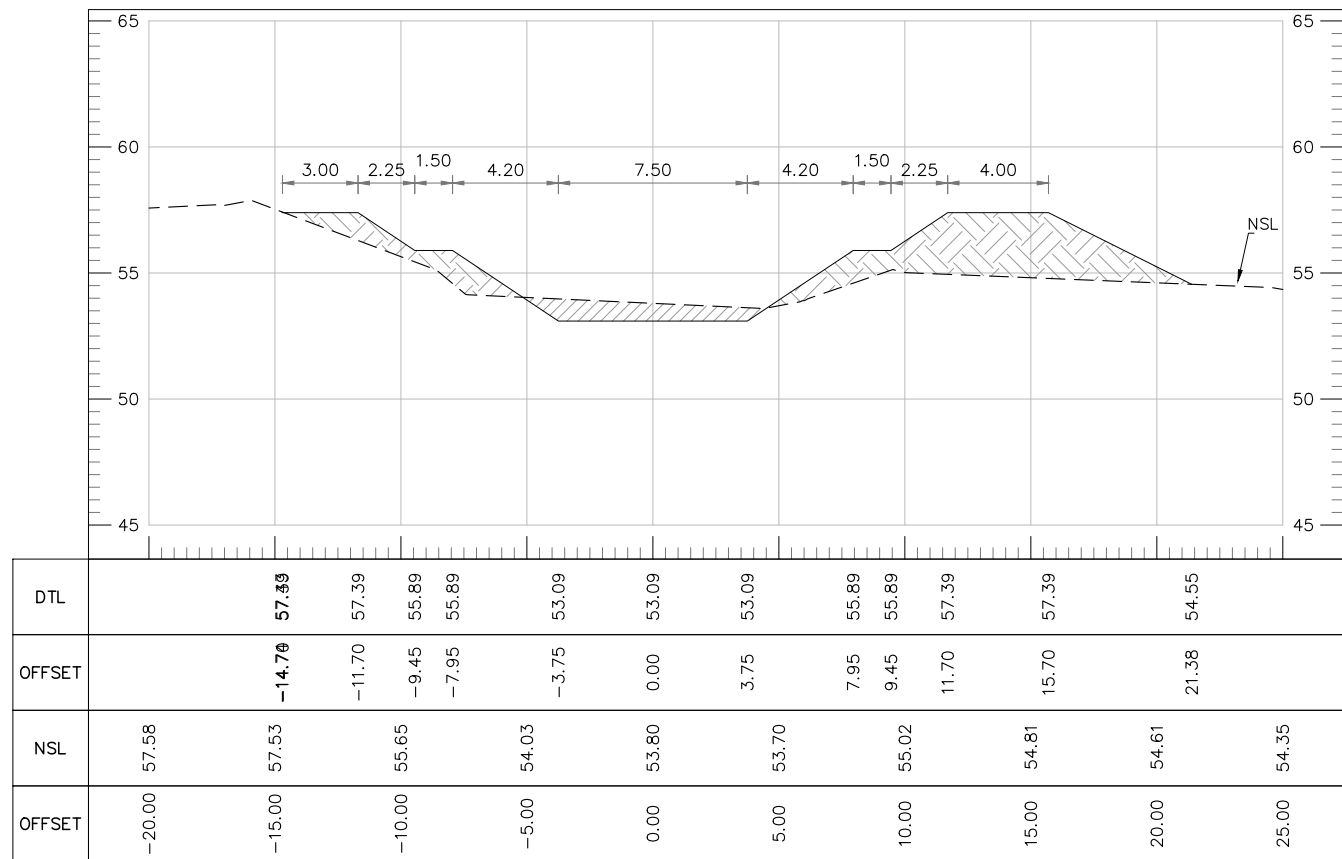
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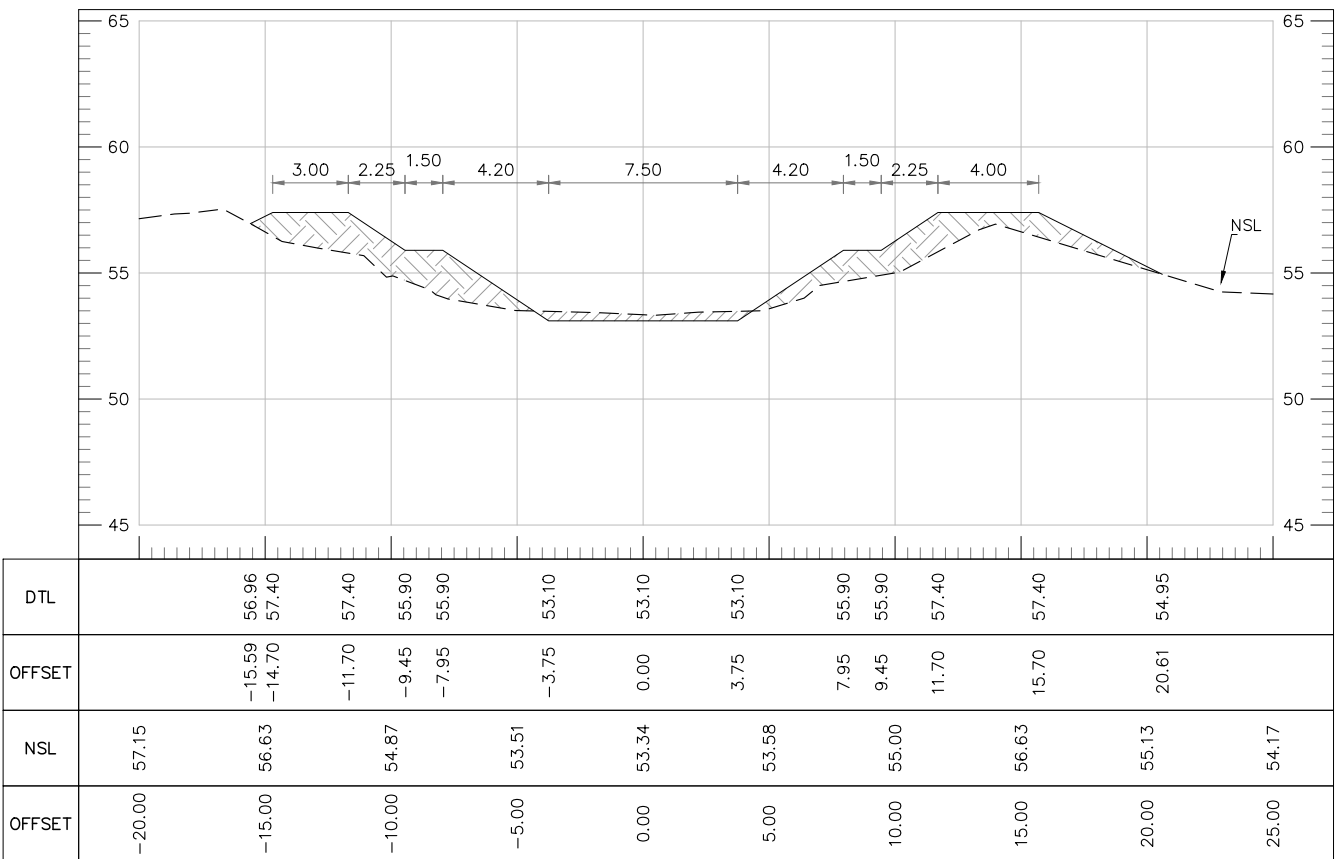
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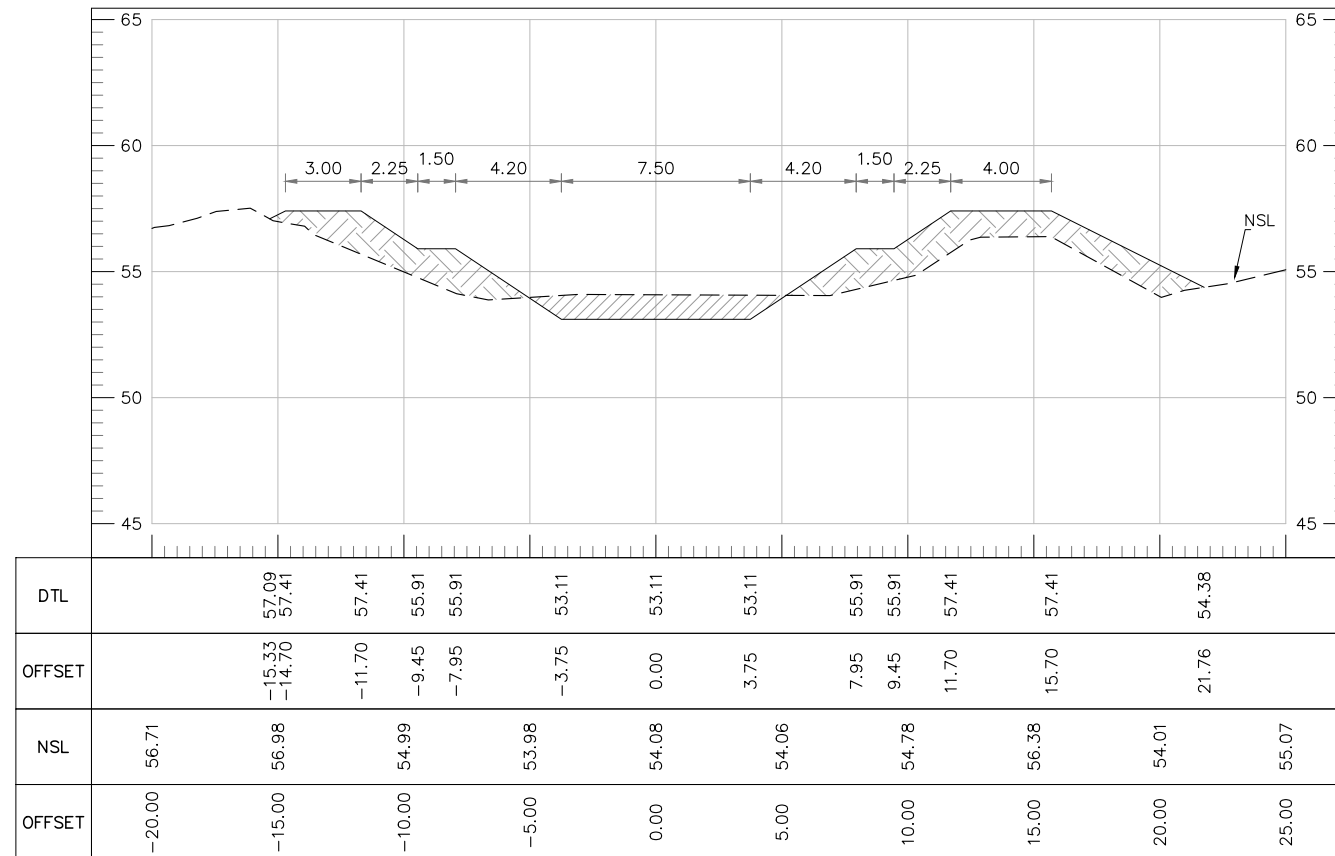


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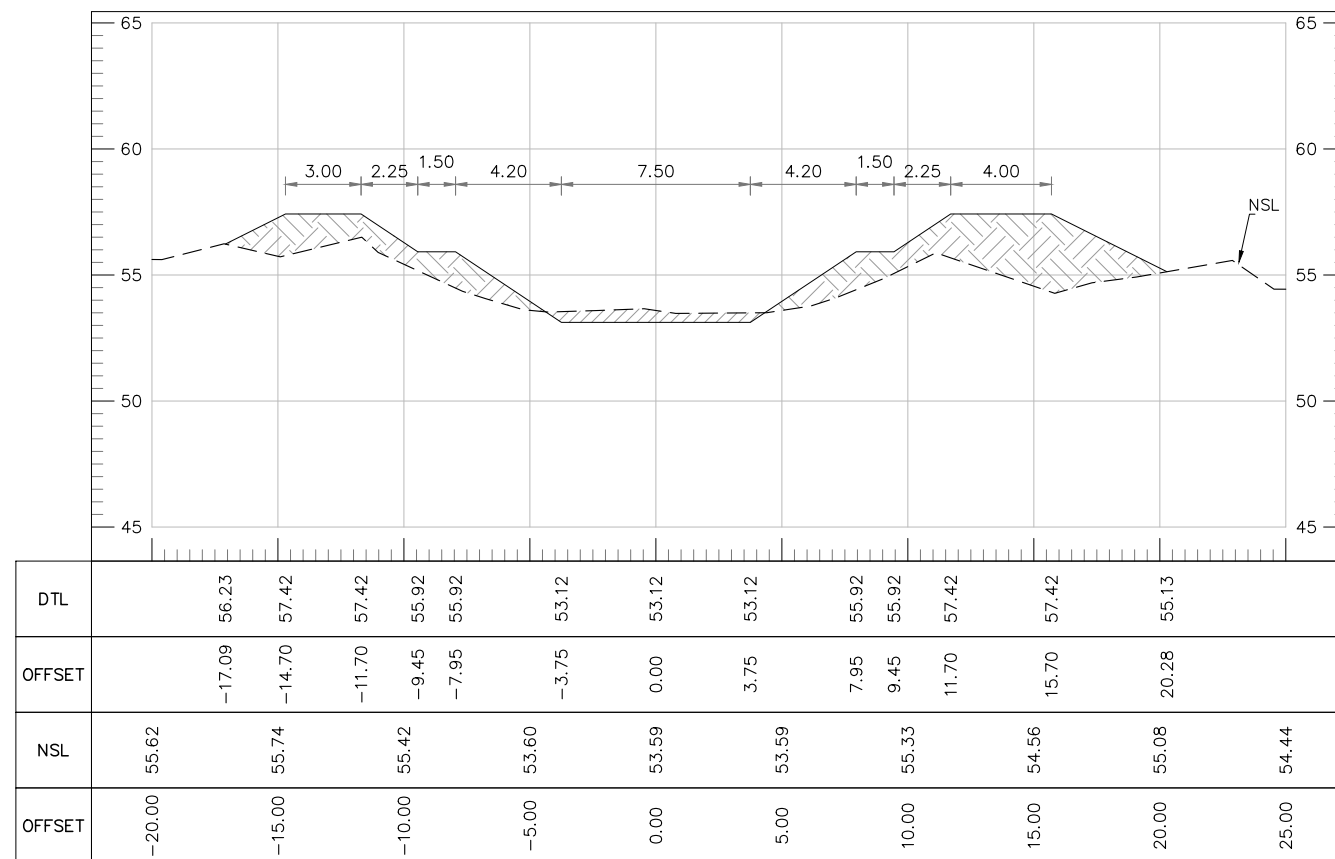


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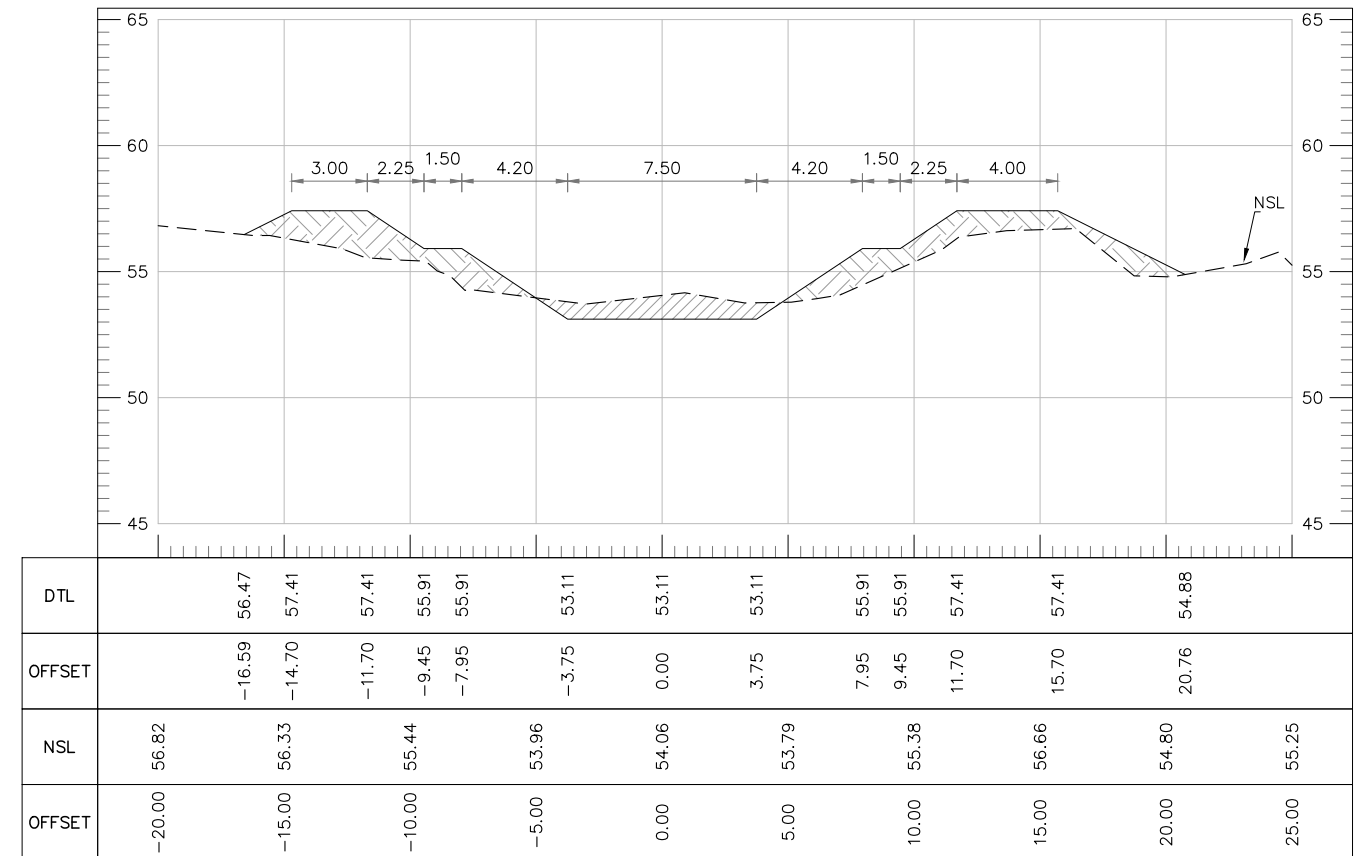
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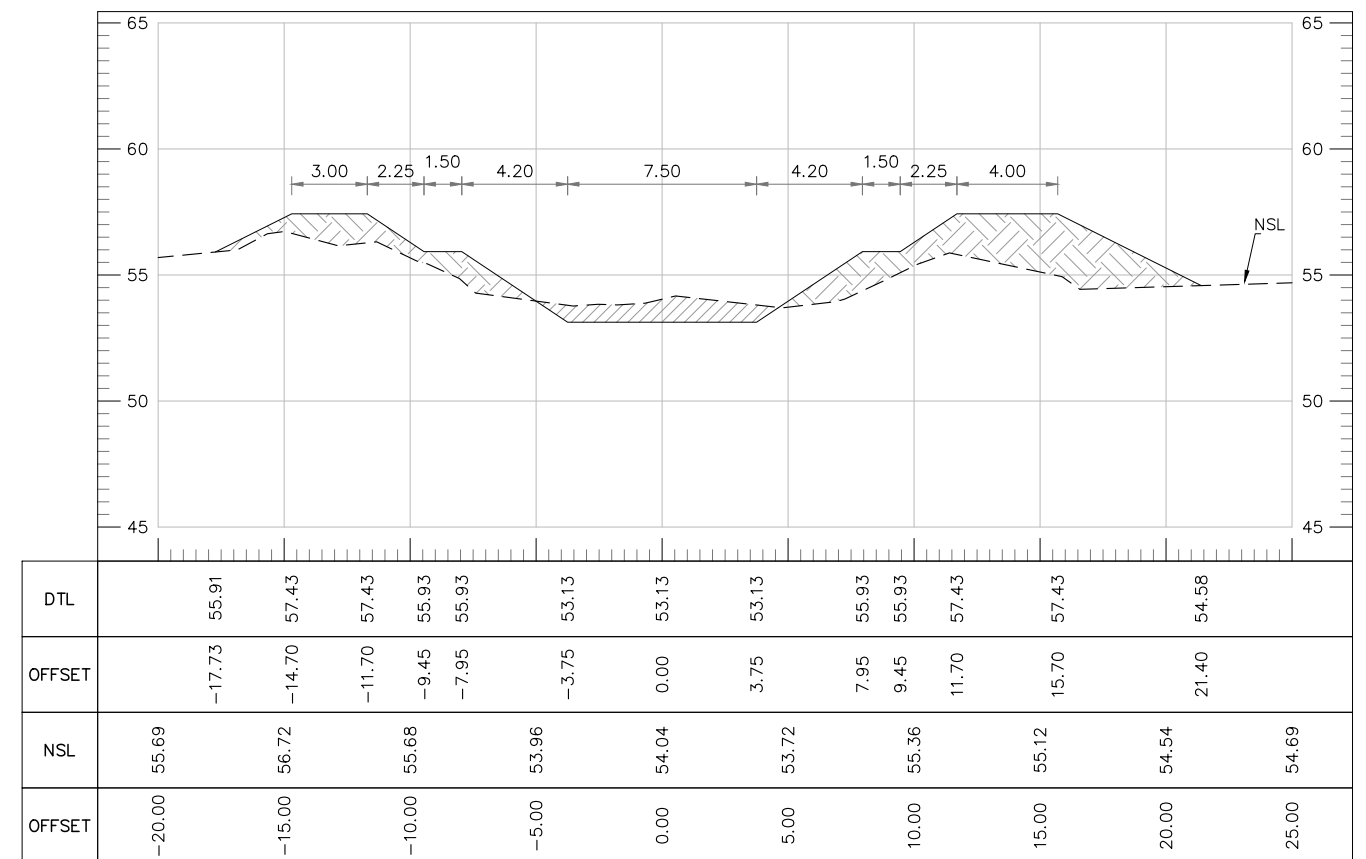
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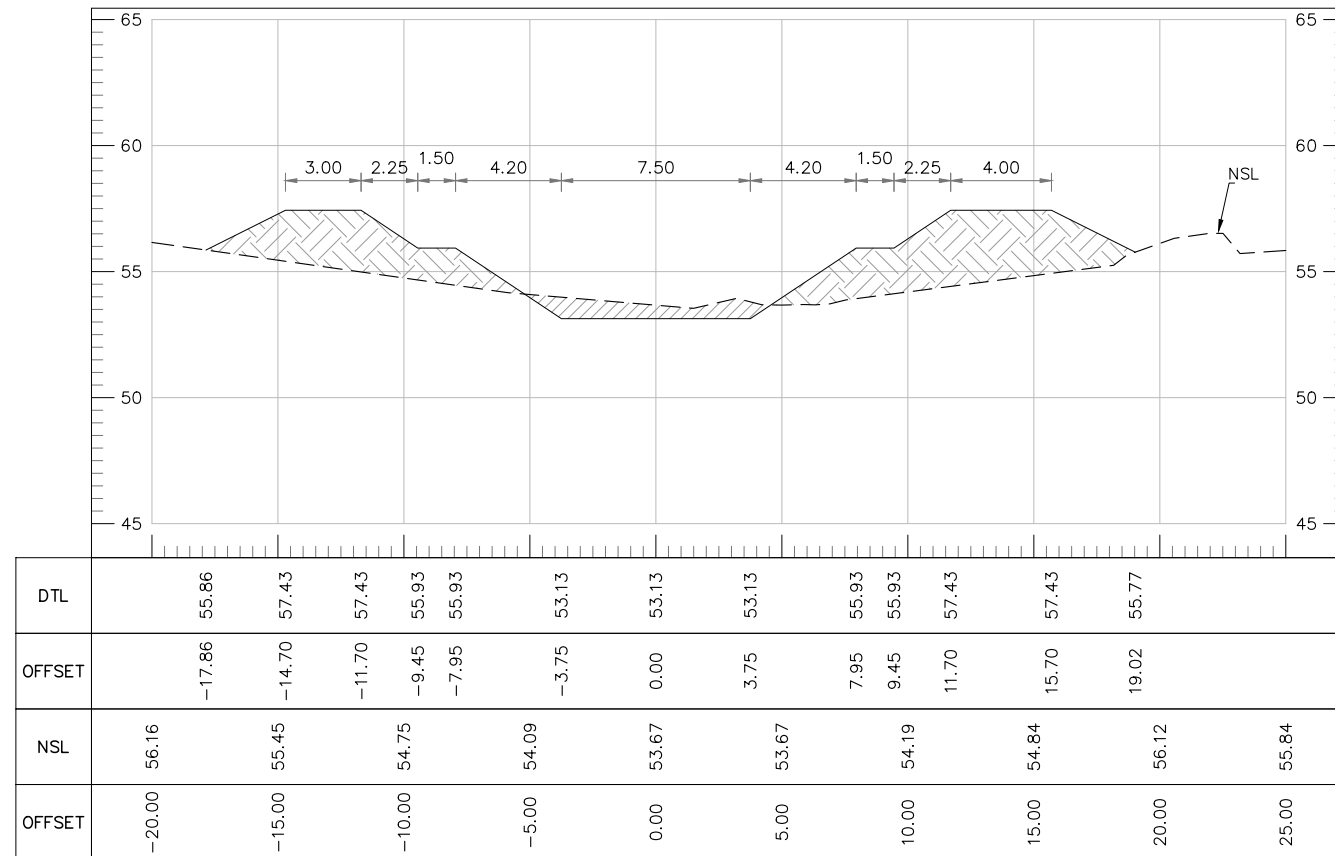


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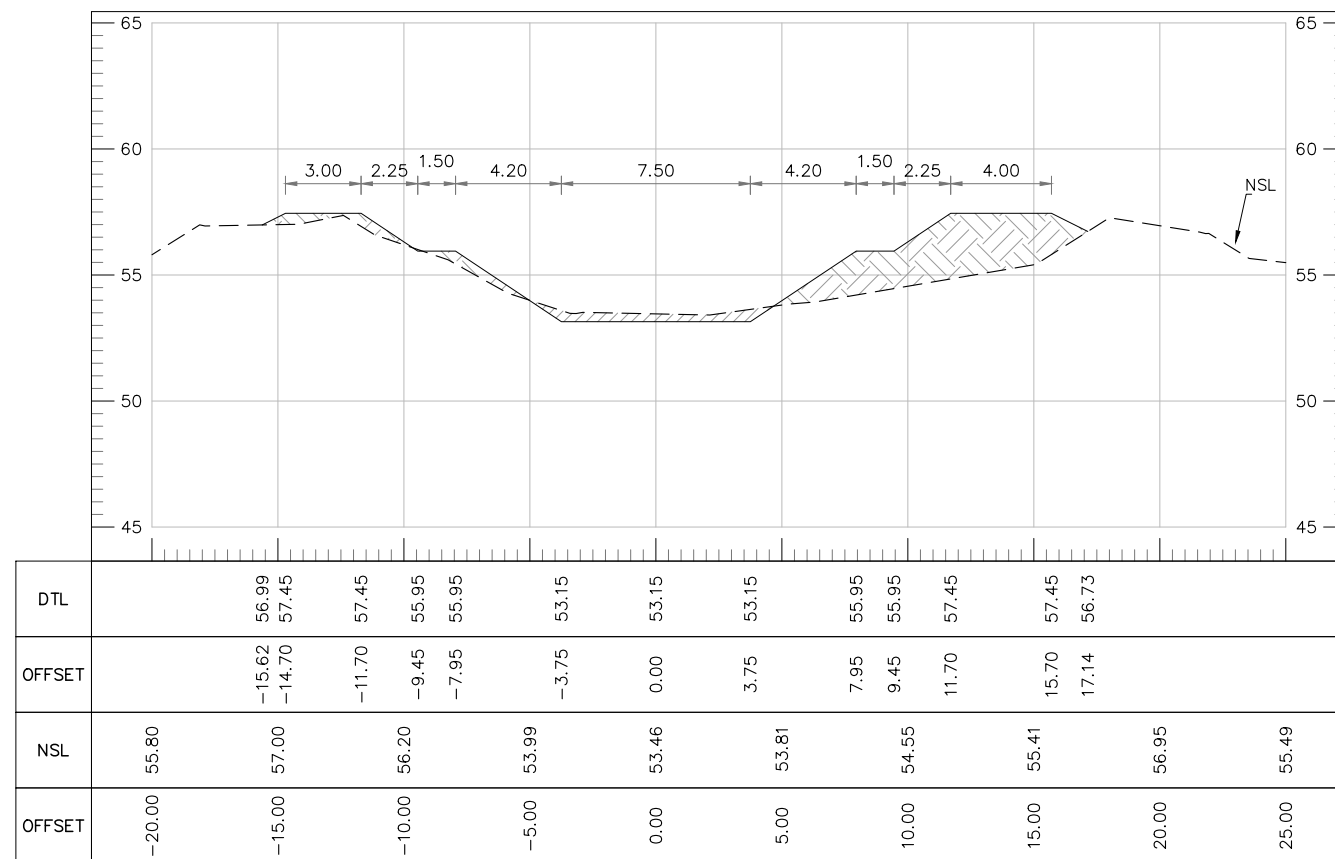


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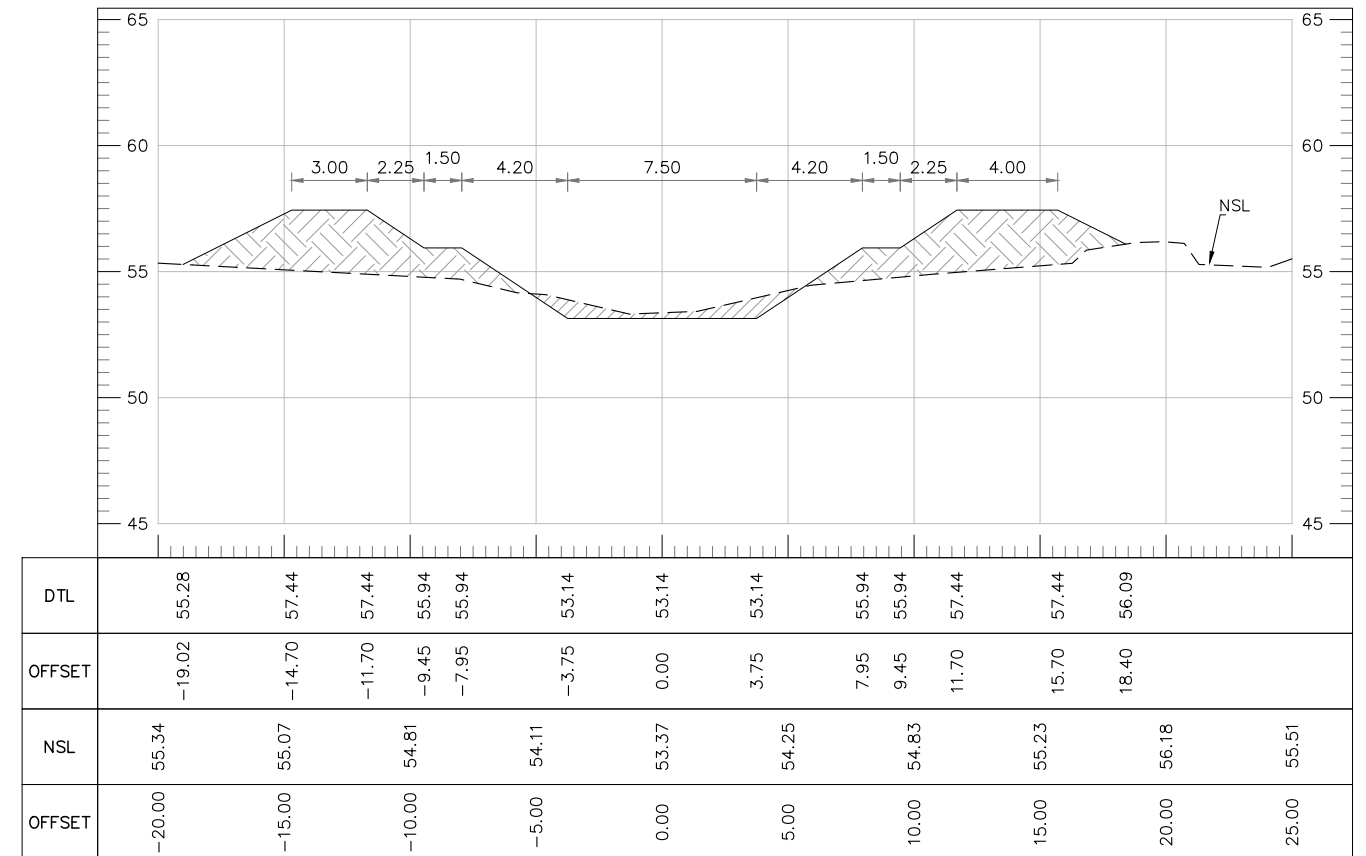
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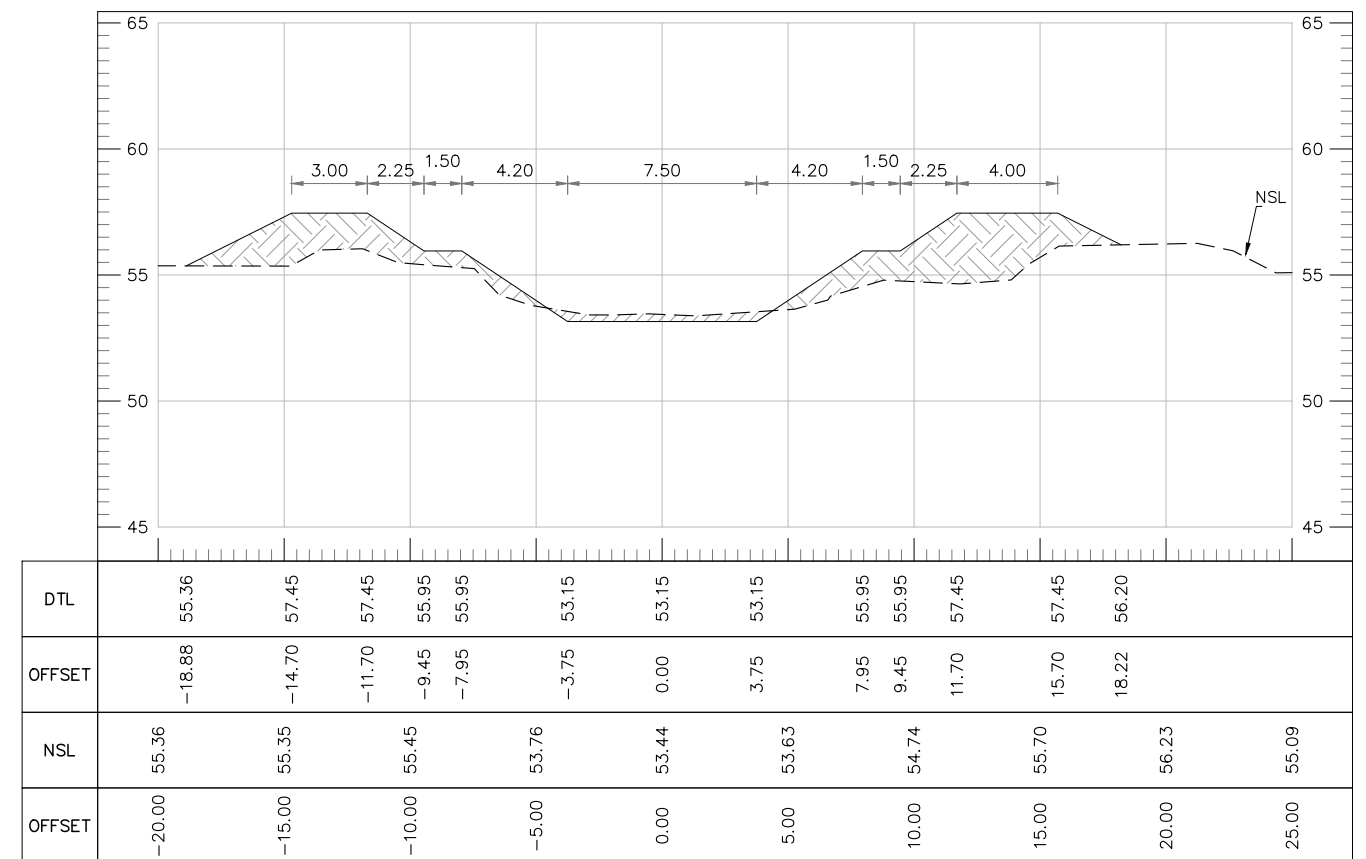
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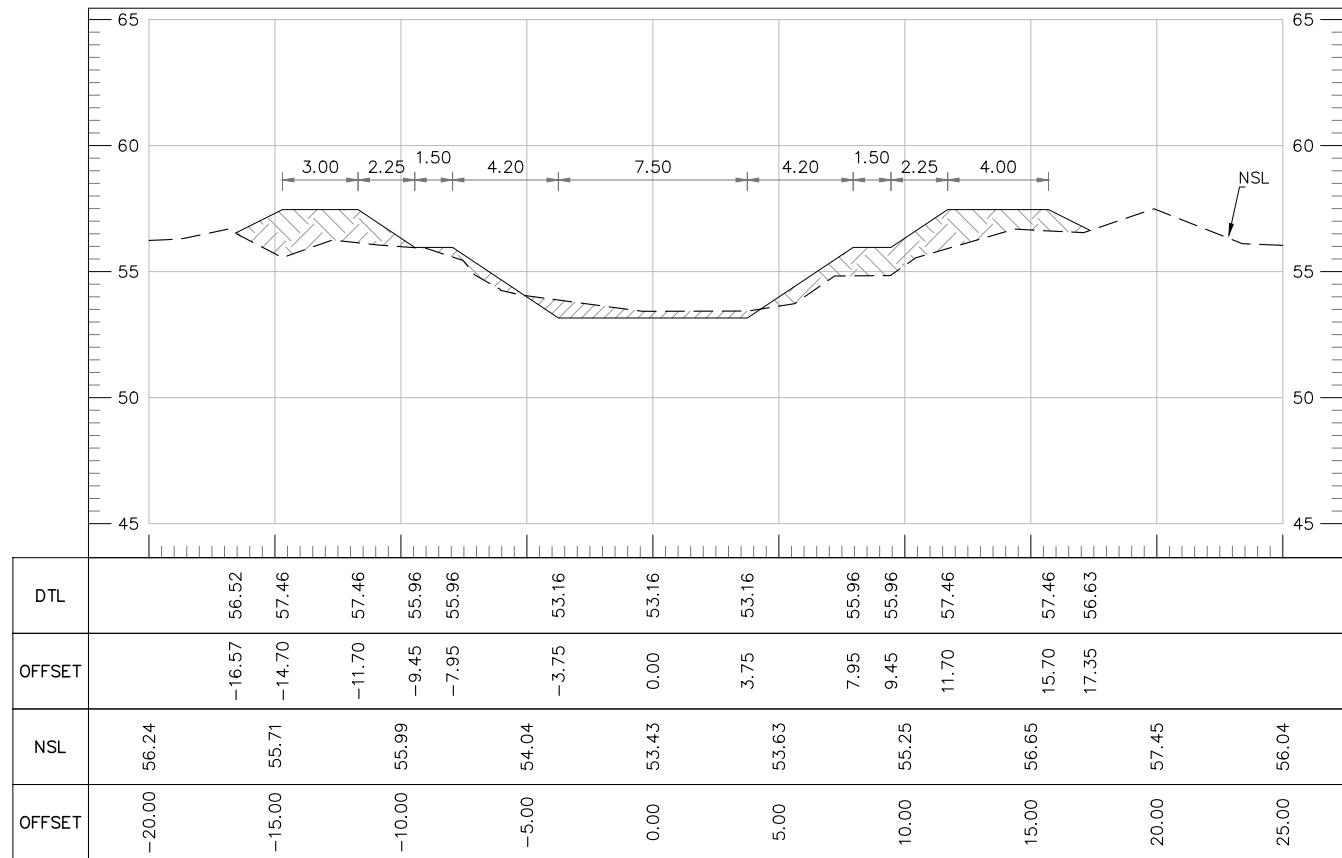


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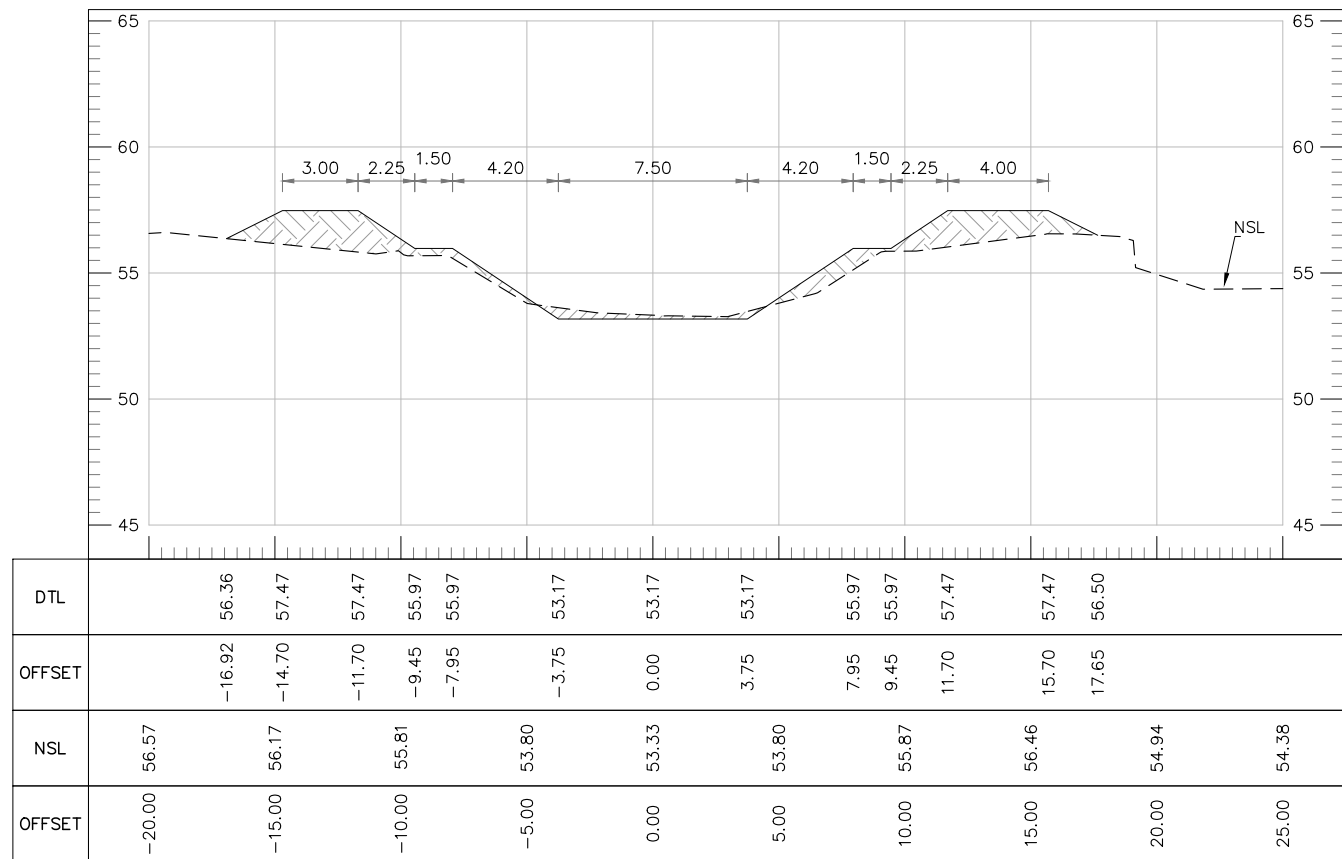


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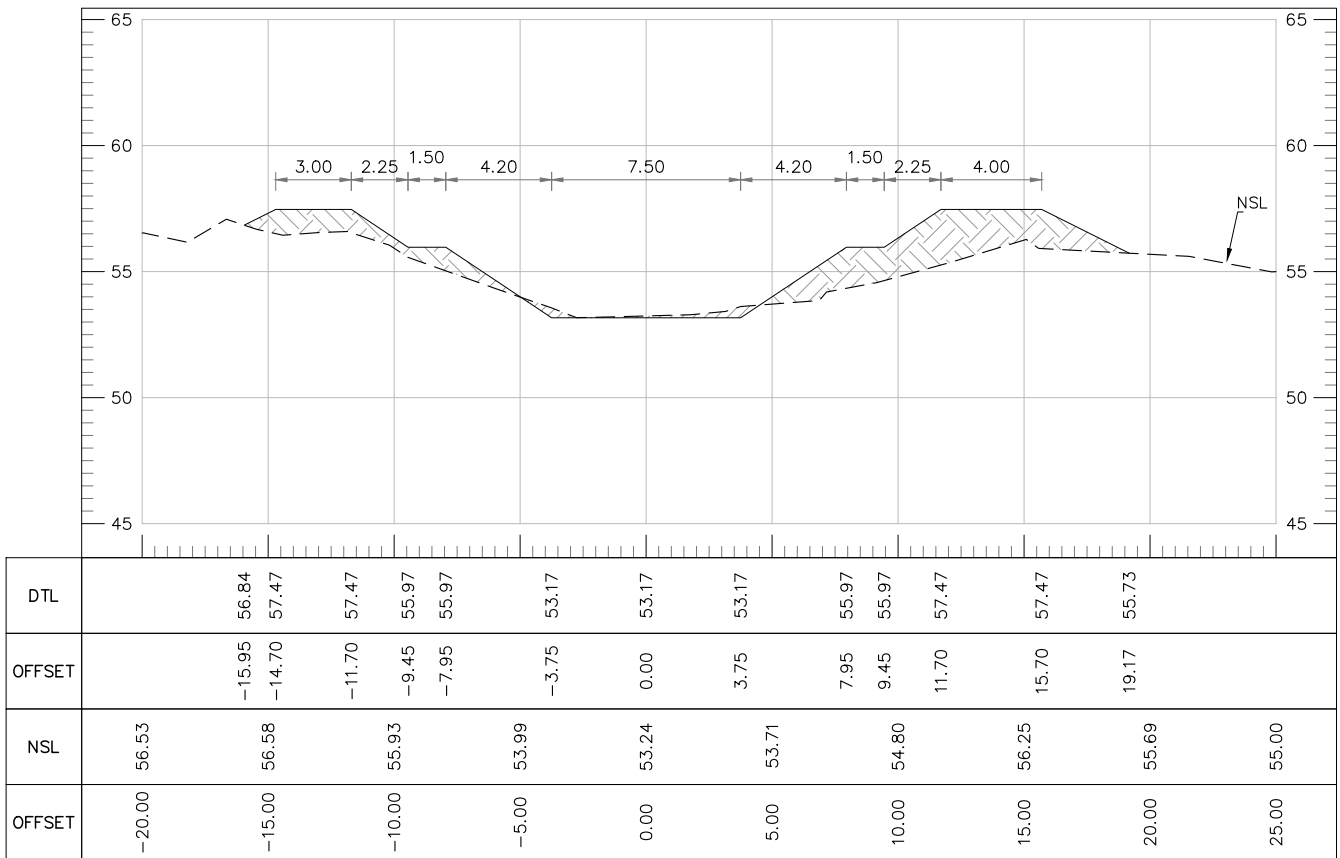
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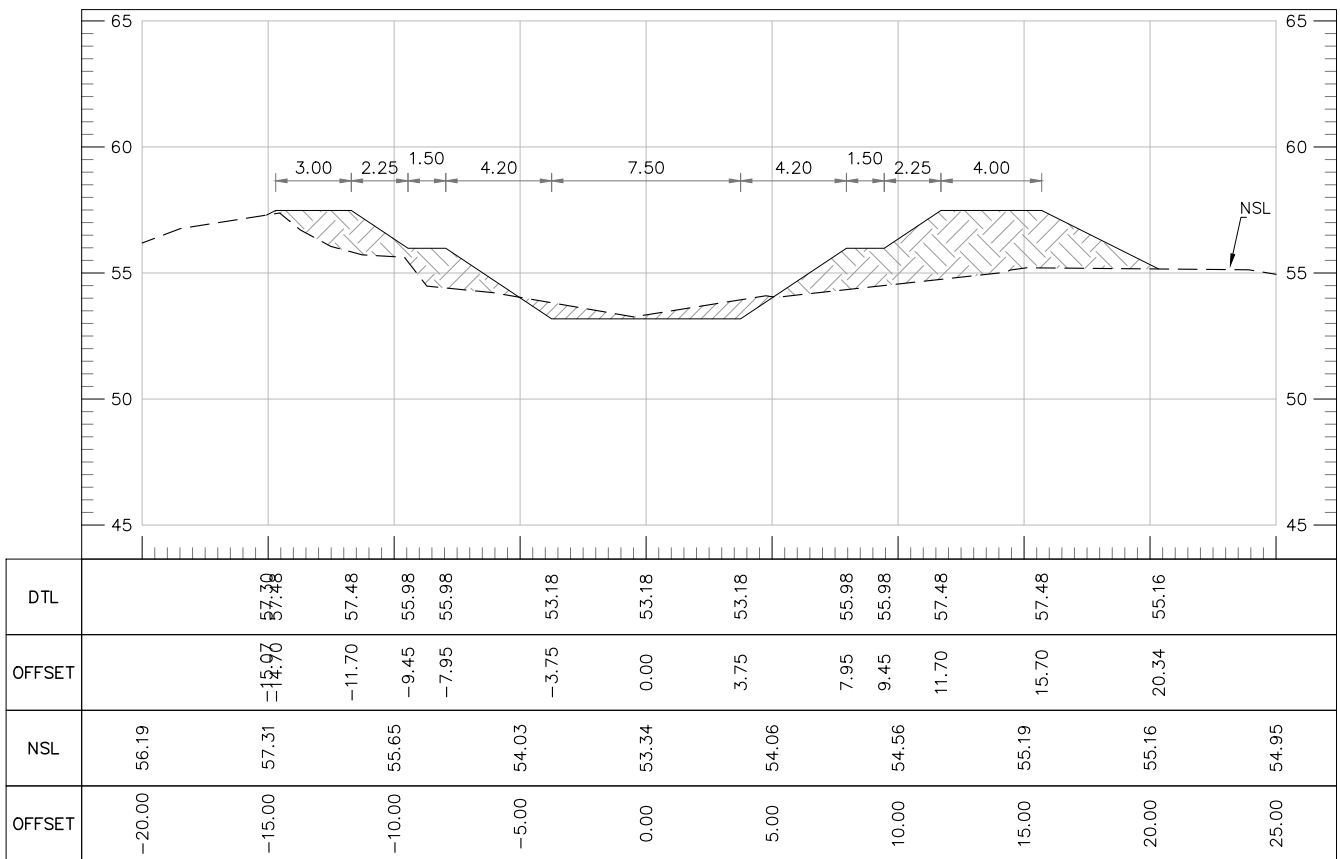
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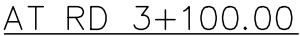
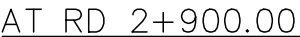
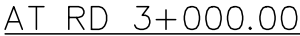
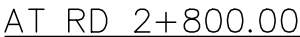


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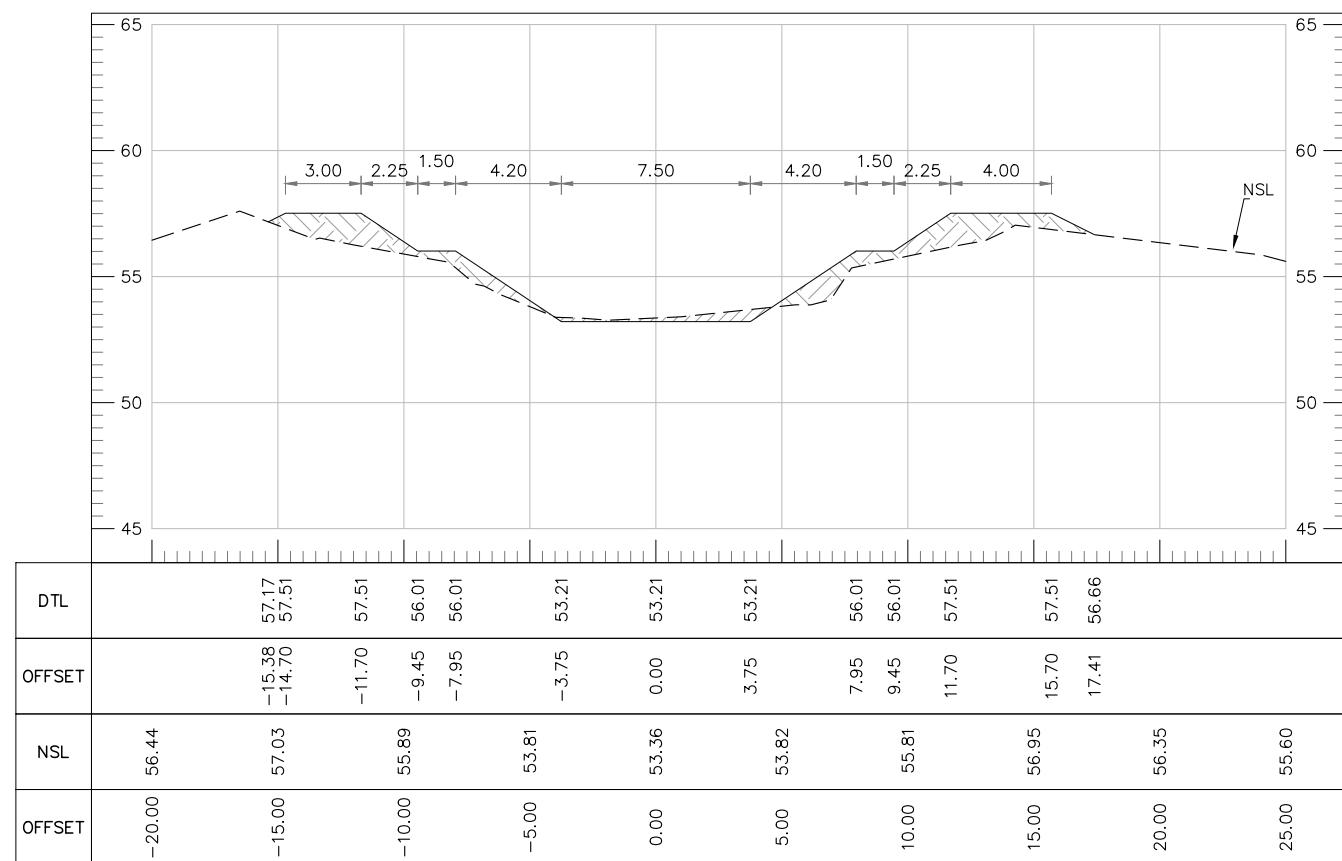
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TENDER DRAWINGS

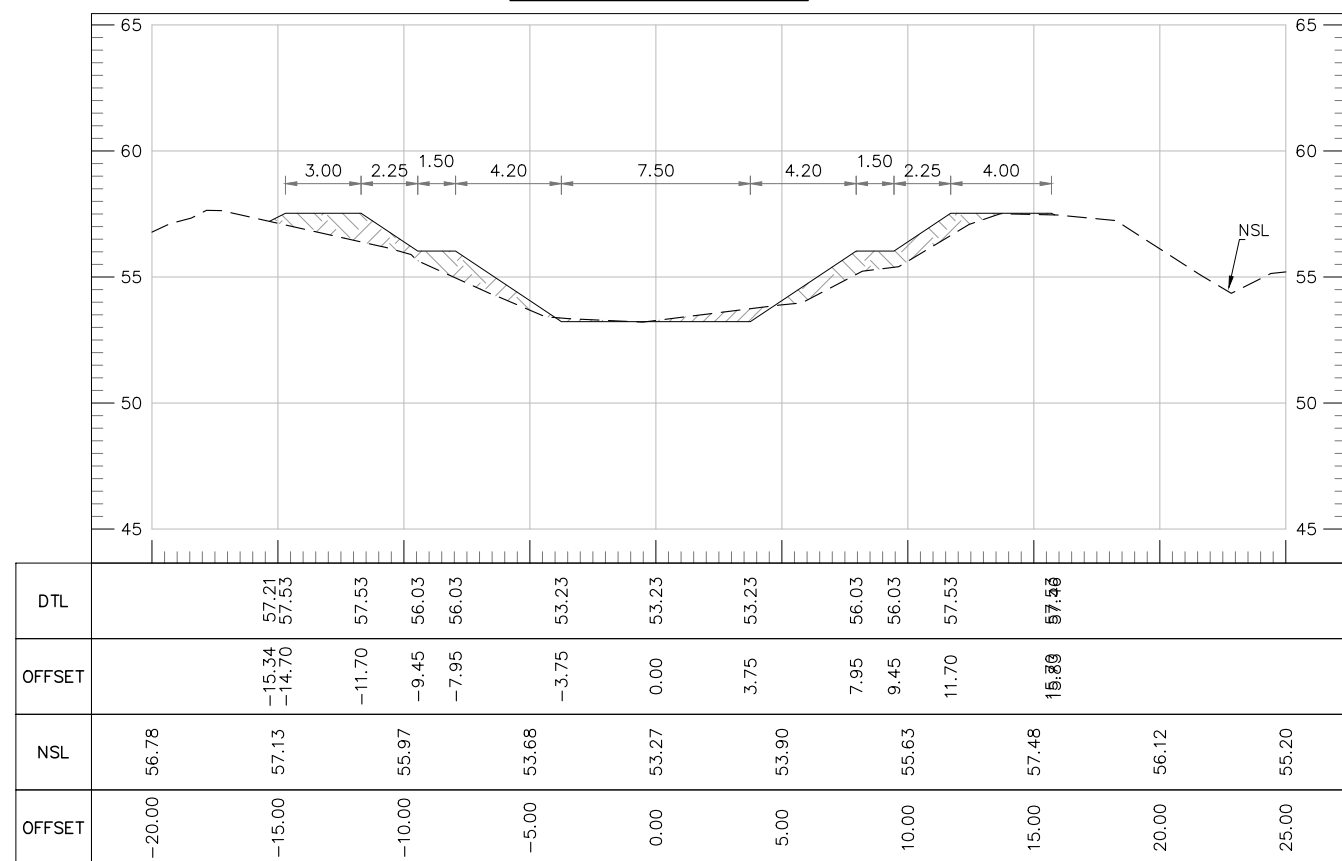


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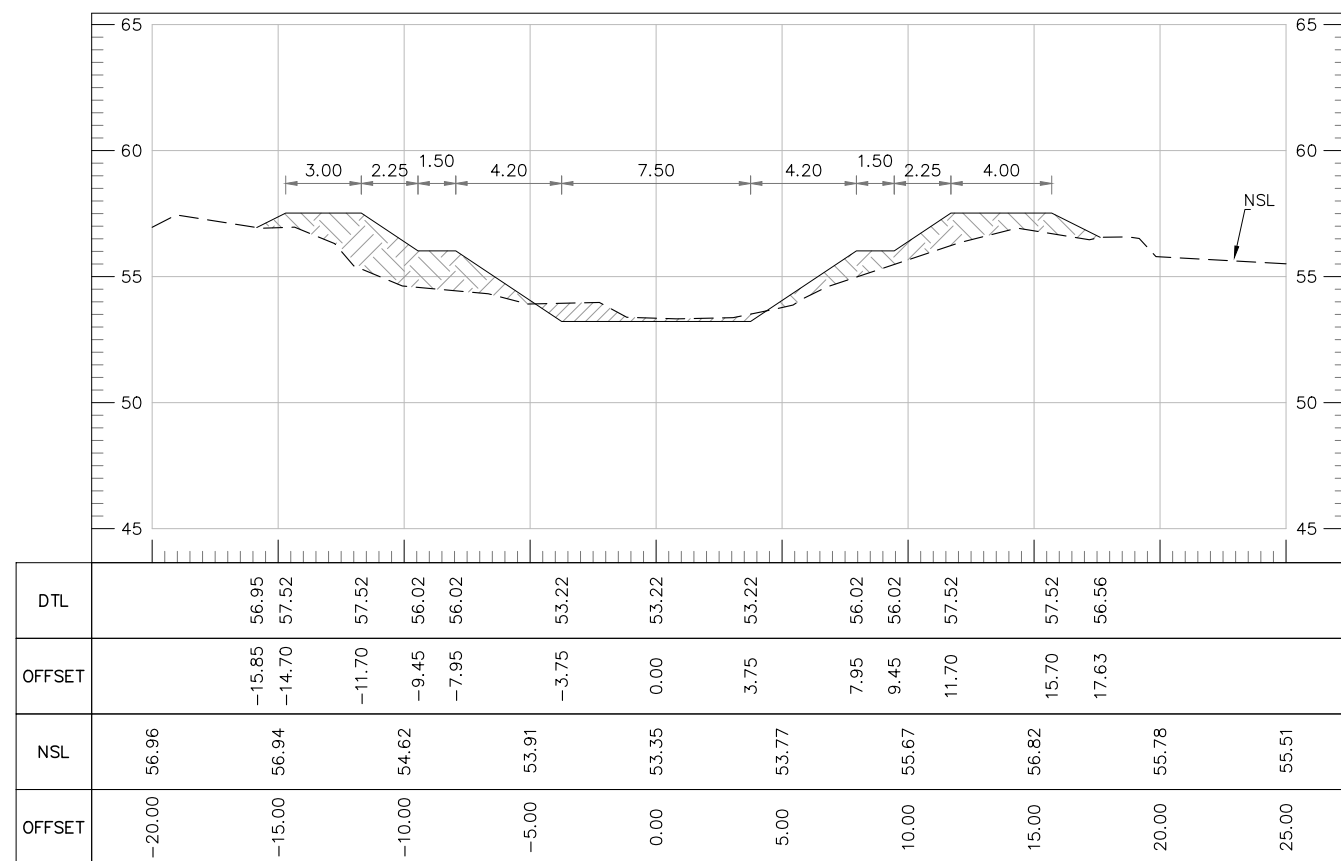
CLIENT:  IRRIGATION DEPARTMENT GOVERNMENT OF BALOCHISTAN	CONSULTANTS:  CAMEOS CONSULTANTS CONSULTING ENGINEERS ARCHITECTS & PLANNERS. PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD. H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.	PROJECT TITLE: INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT	SCHEME NAME: RESTORATION / STRENGTHENING OF EMBANKMENT OF HAIRDIN MAIN DRAIN FROM RD.0 TO RD.62 AND CONSTRUCTION OF 3 NOS VRB AT DIFFERENT PLACES DISTRICT SOHBAT PUR	DRAWING TITLE:- CROSS SECTION OF HAIRDIN DRAIN AT RD 2+800 TO 3+100	NOTES: ALL LEVELS AND DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.	<table border="1"> <tr> <td>DRAWN BY:</td> <td>FAISAL / USAMA</td> <td>DESIGNED BY:</td> <td>KAMRAN BABAR</td> </tr> <tr> <td>CHECKED BY:</td> <td>ZIA-UL-HAQ</td> <td>SCALE:</td> <td>1:300</td> </tr> <tr> <td>FILE PATH:</td> <td>G/ IFRAP</td> <td>DATE:</td> <td>AUG / 2025</td> </tr> <tr> <td>DRAWING NO:</td> <td>IFRAP-P05/HMD-15</td> <td>SHEET:-</td> <td>09 OF 14</td> </tr> </table>	DRAWN BY:	FAISAL / USAMA	DESIGNED BY:	KAMRAN BABAR	CHECKED BY:	ZIA-UL-HAQ	SCALE:	1:300	FILE PATH:	G/ IFRAP	DATE:	AUG / 2025	DRAWING NO:	IFRAP-P05/HMD-15	SHEET:-	09 OF 14
DRAWN BY:	FAISAL / USAMA	DESIGNED BY:	KAMRAN BABAR																			
CHECKED BY:	ZIA-UL-HAQ	SCALE:	1:300																			
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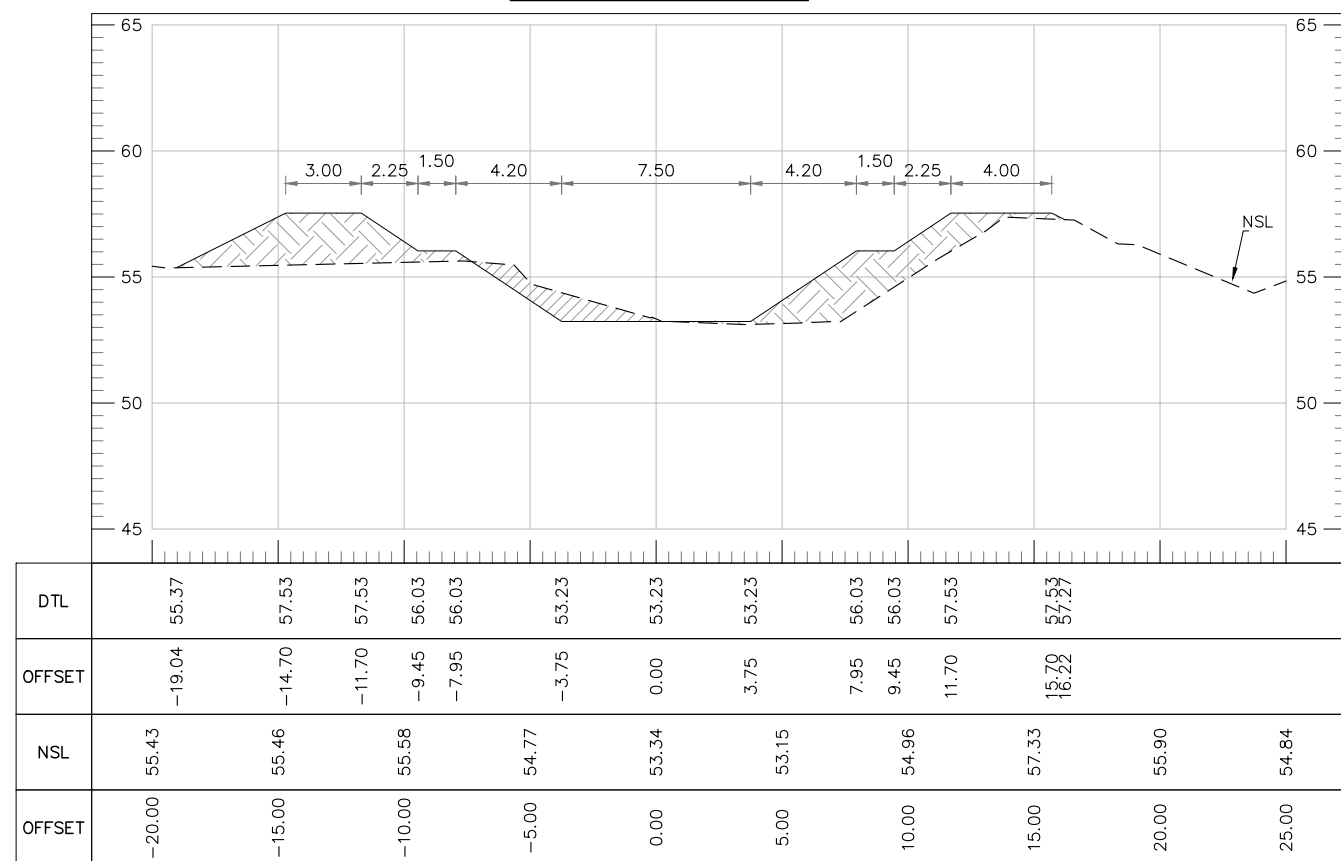
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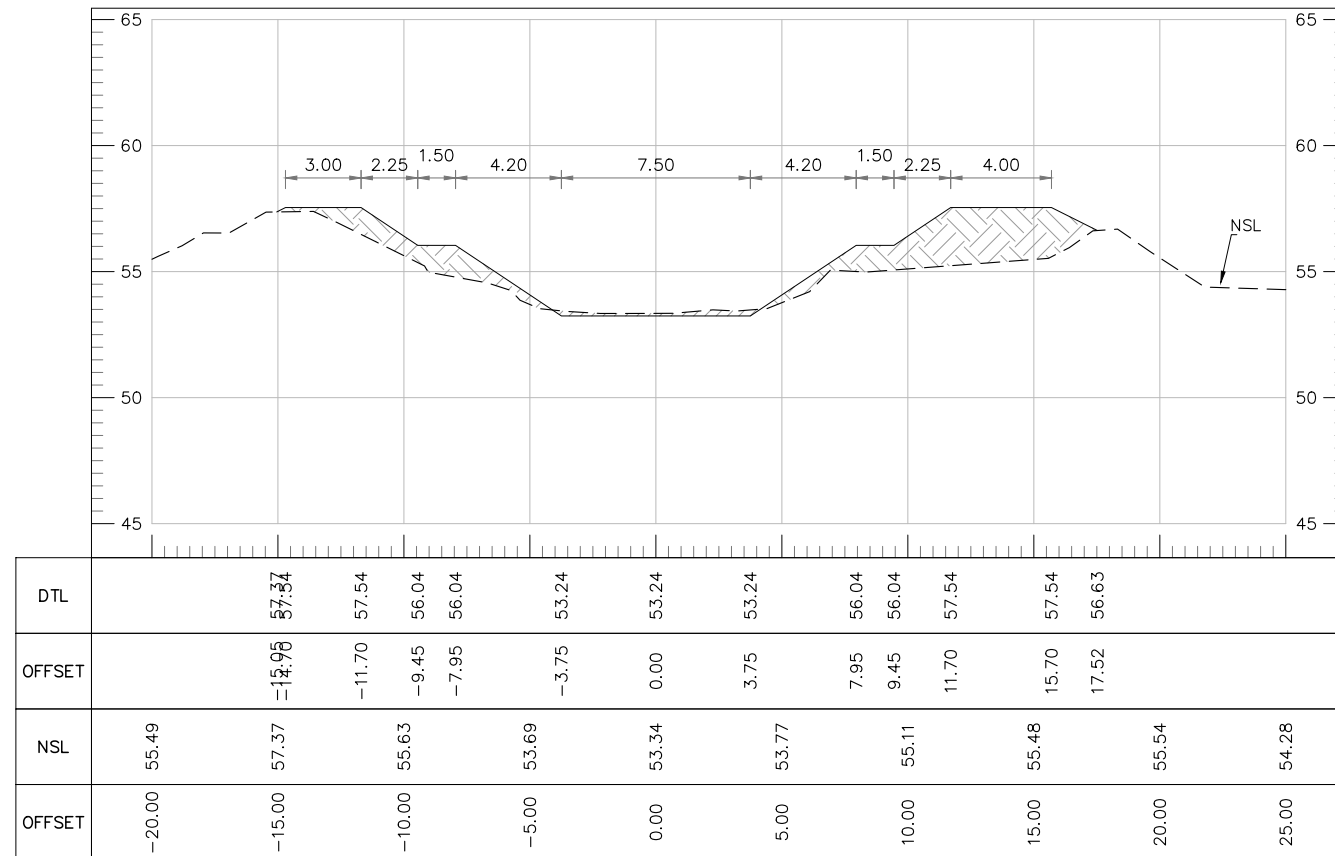


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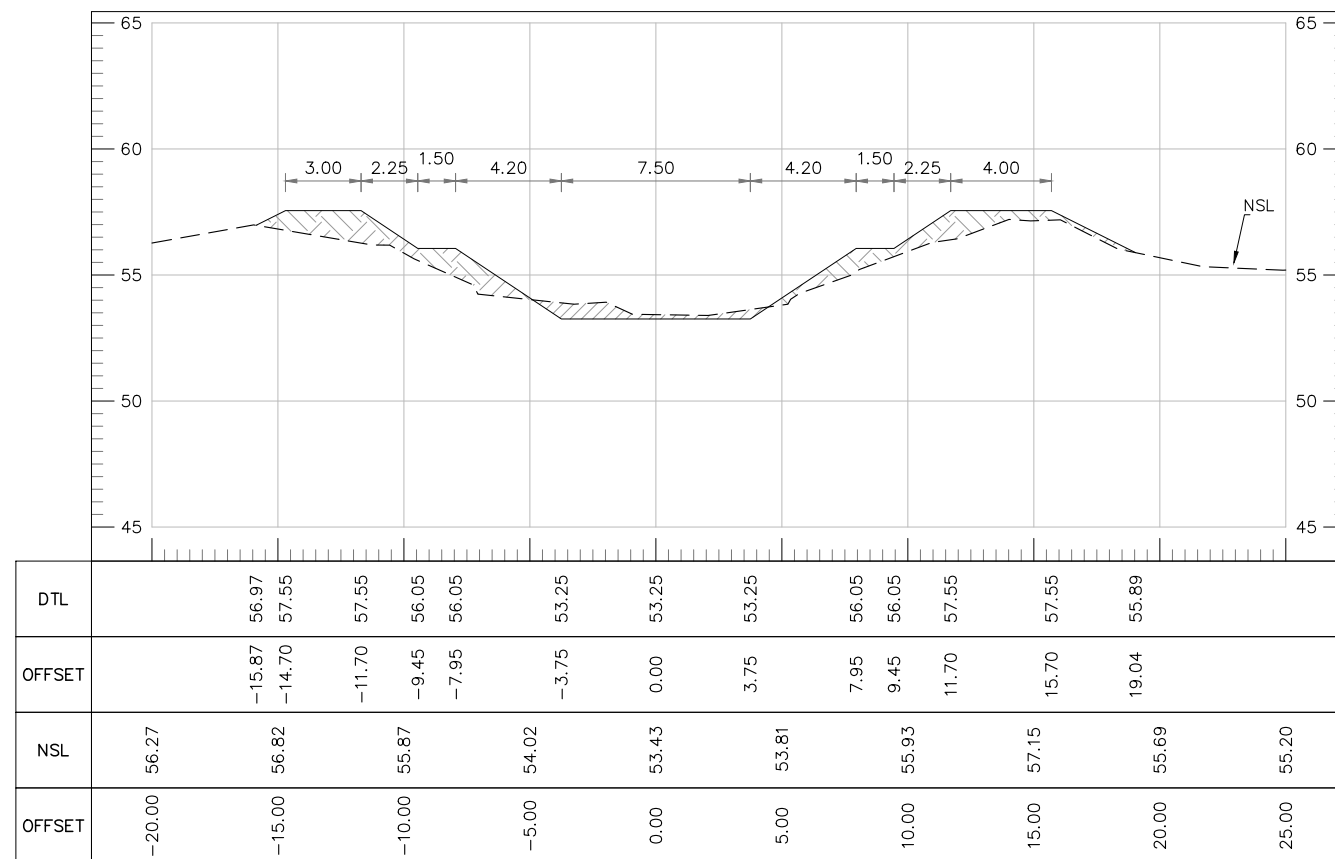


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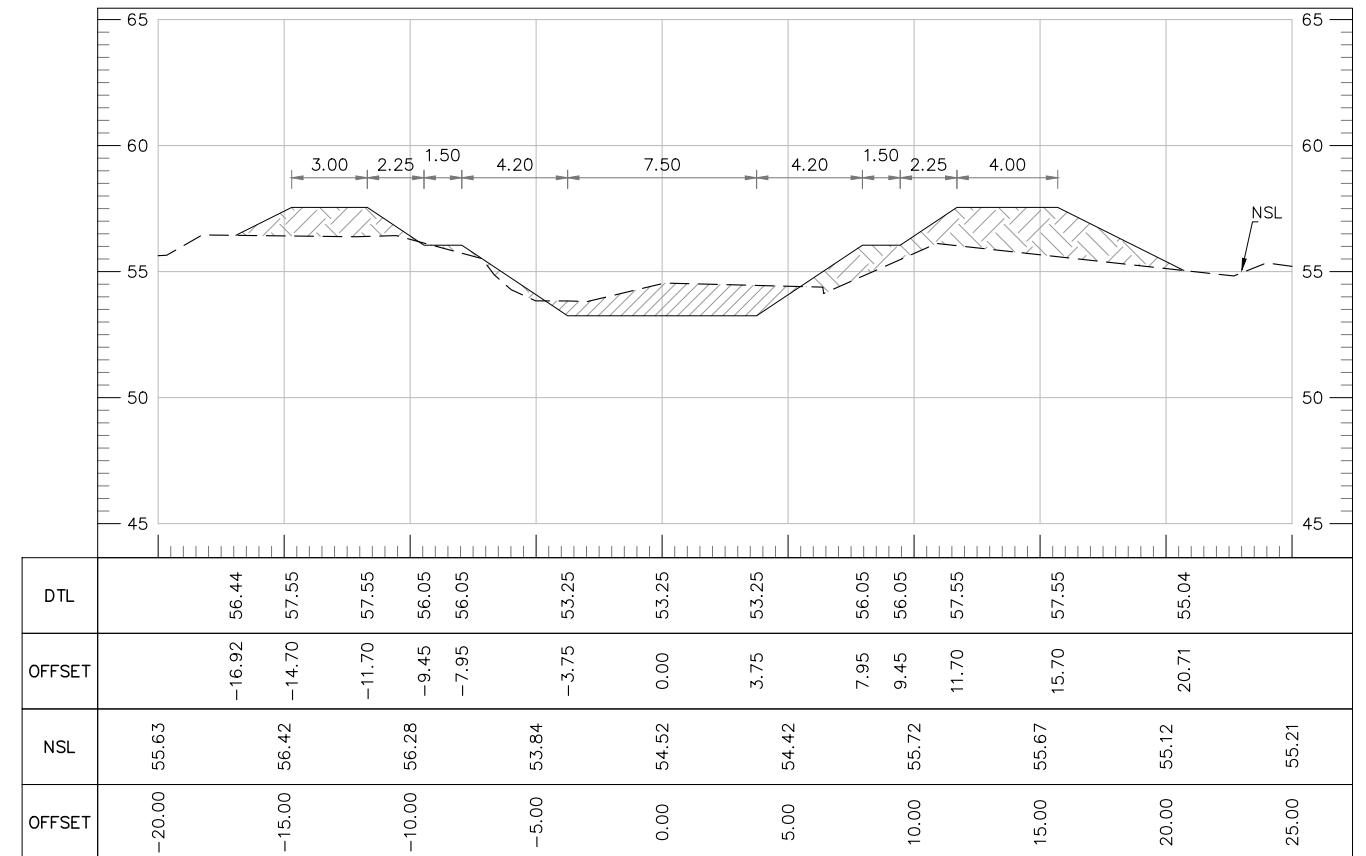
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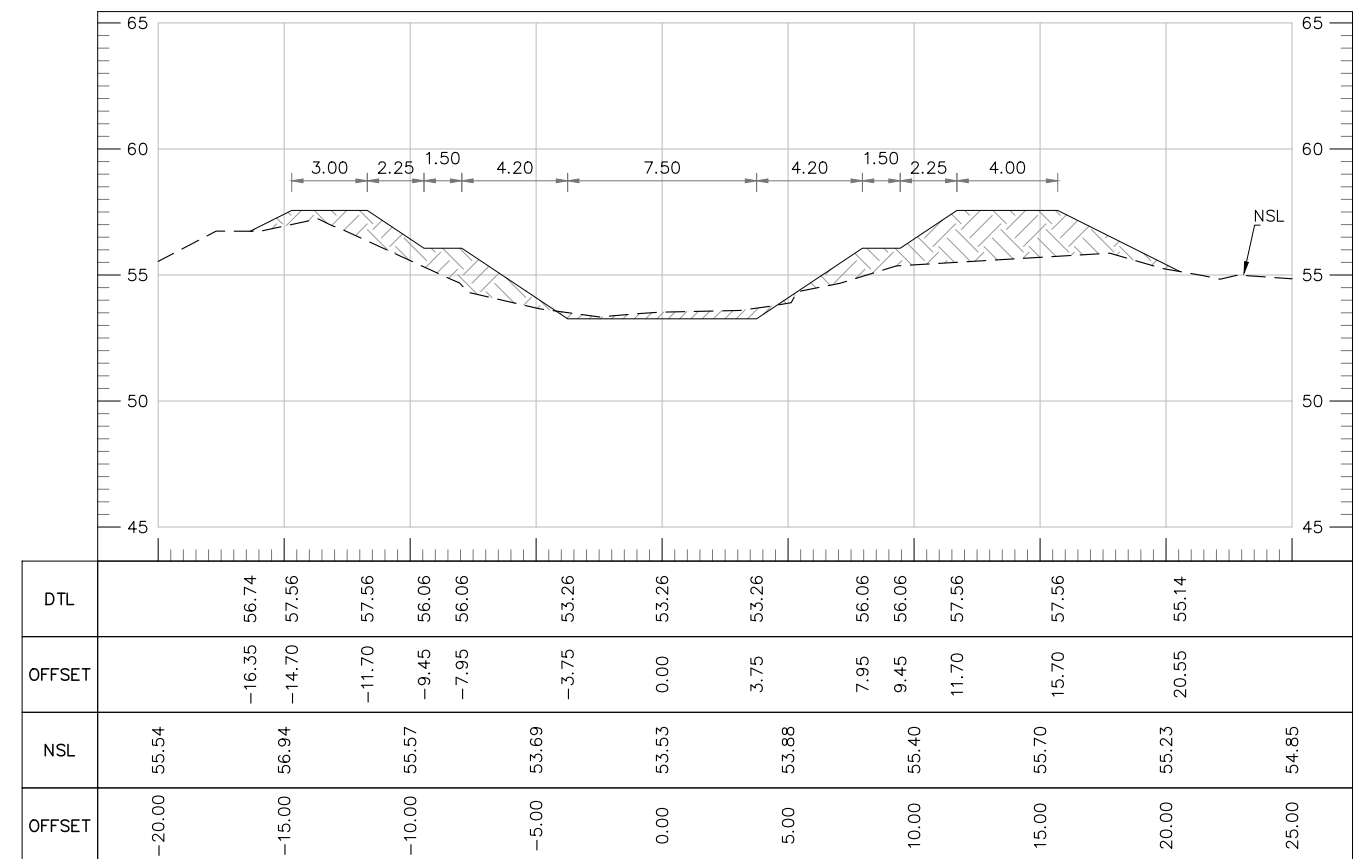
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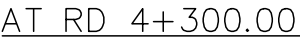
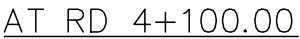
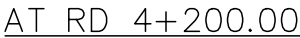
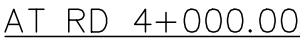


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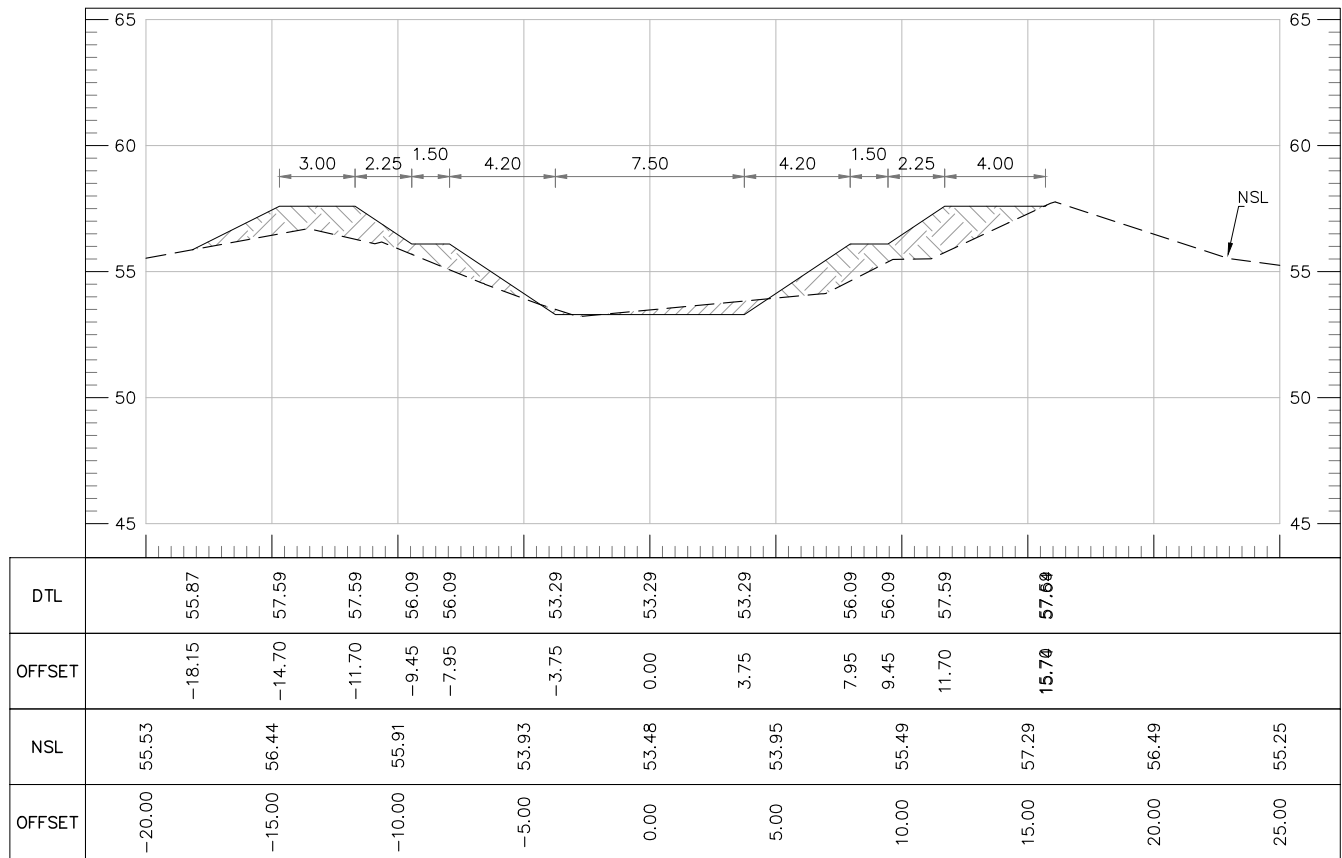
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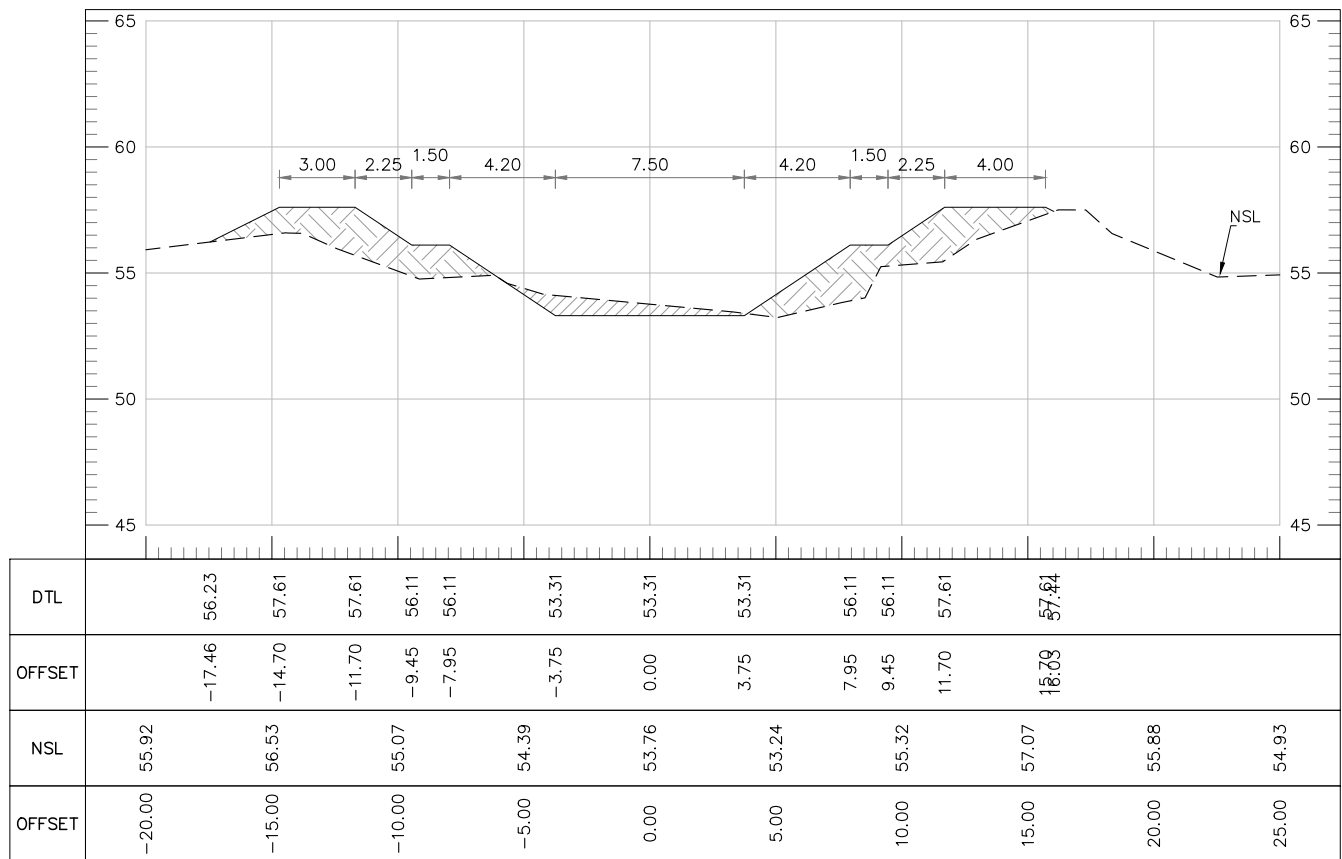


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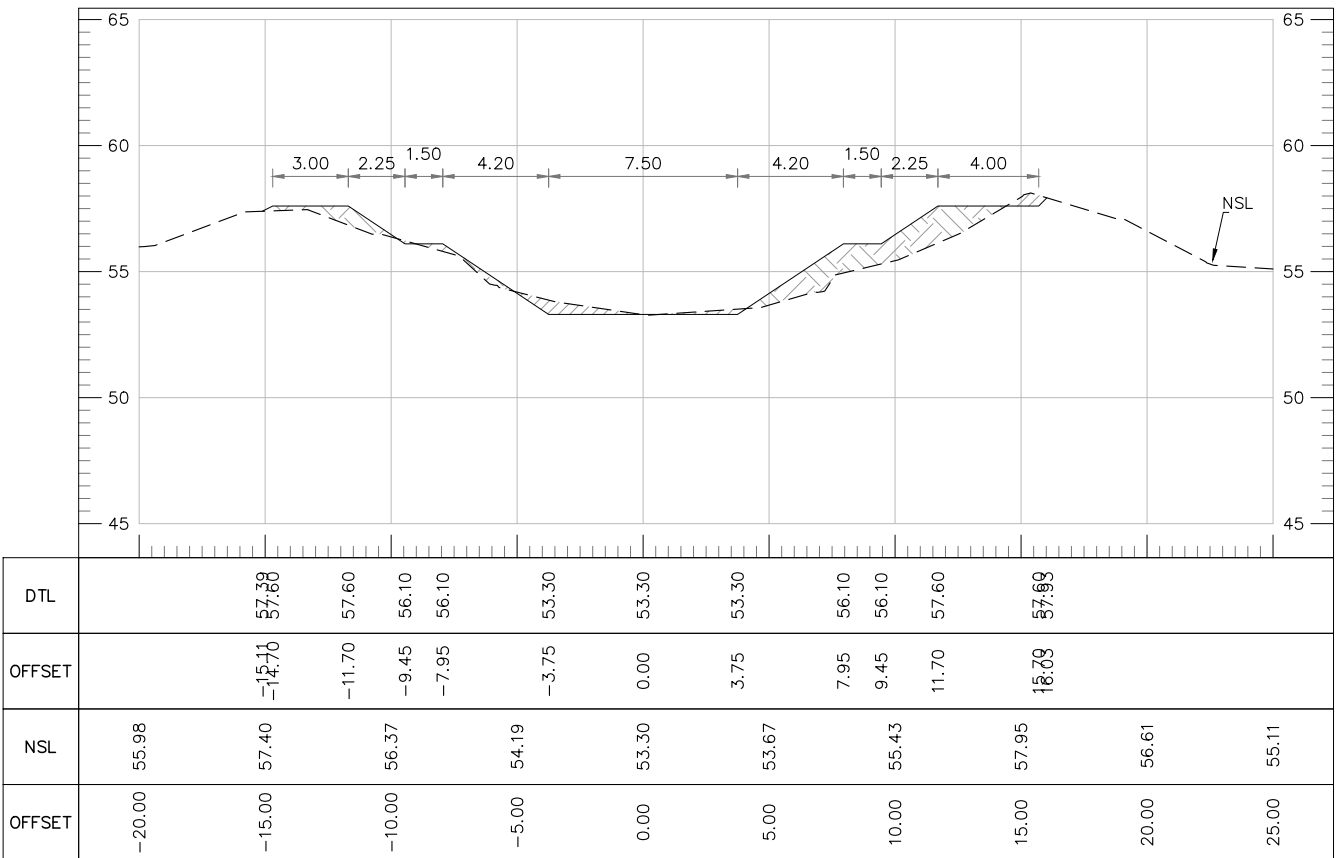
CLIENT:  IRRIGATION DEPARTMENT GOVERNMENT OF BALOCHISTAN	CONSULTANTS:  CAMEOS CONSULTANTS CONSULTING ENGINEERS, ARCHITECTS & PLANNERS. PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD. H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.	PROJECT TITLE: INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT	SCHEME NAME: RESTORATION / STRENGTHENING OF EMBANKMENT OF HAIRDIN MAIN DRAIN FROM RD.0 TO RD.62 AND CONSTRUCTION OF 3 NOS VRB AT DIFFERENT PLACES DISTRICT SOHBAT PUR	DRAWING TITLE:- CROSS SECTION OF HAIRDIN DRAIN AT RD 4+000 TO 4+300	NOTES: ALL LEVELS AND DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.	DRAWN BY: FAISAL / USAMA CHECKED BY: ZIA-UL-HAQ FILE PATH: G/ IFRAP DRAWING NO: IFRAP-P05/HMD-18	DESIGNED BY: KAMRAN BABAR SCALE: 1:300 DATE: AUG / 2025 SHEET:- 12 OF 14
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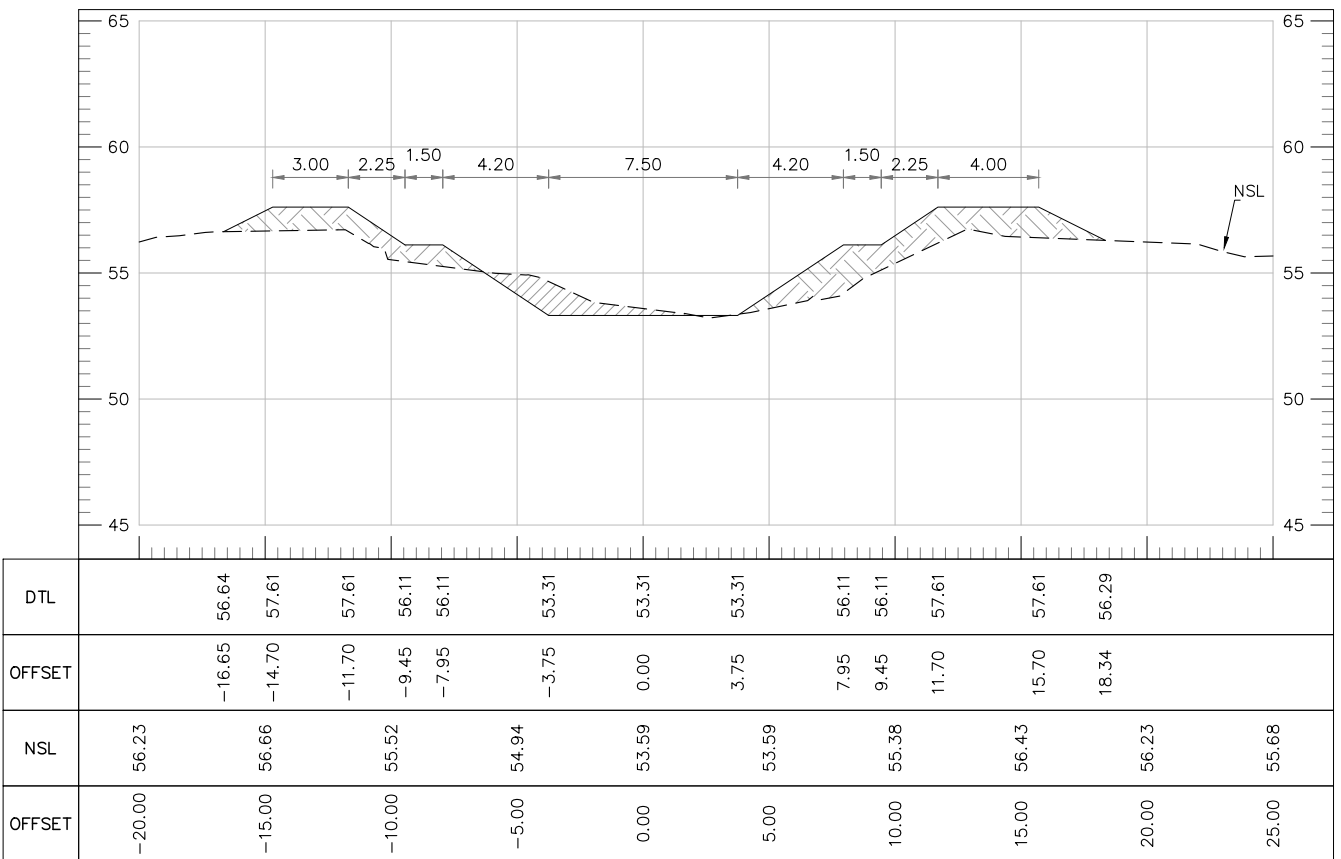
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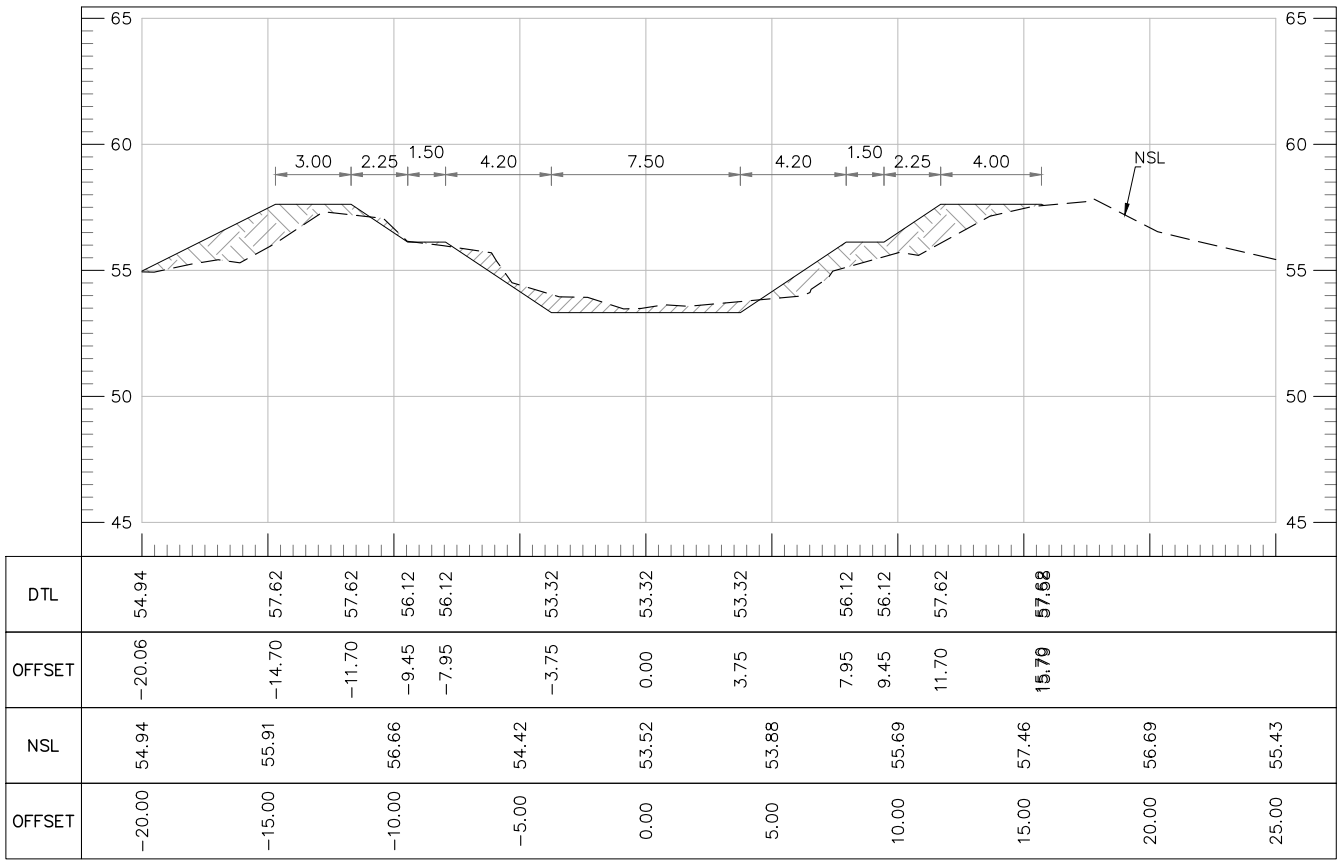


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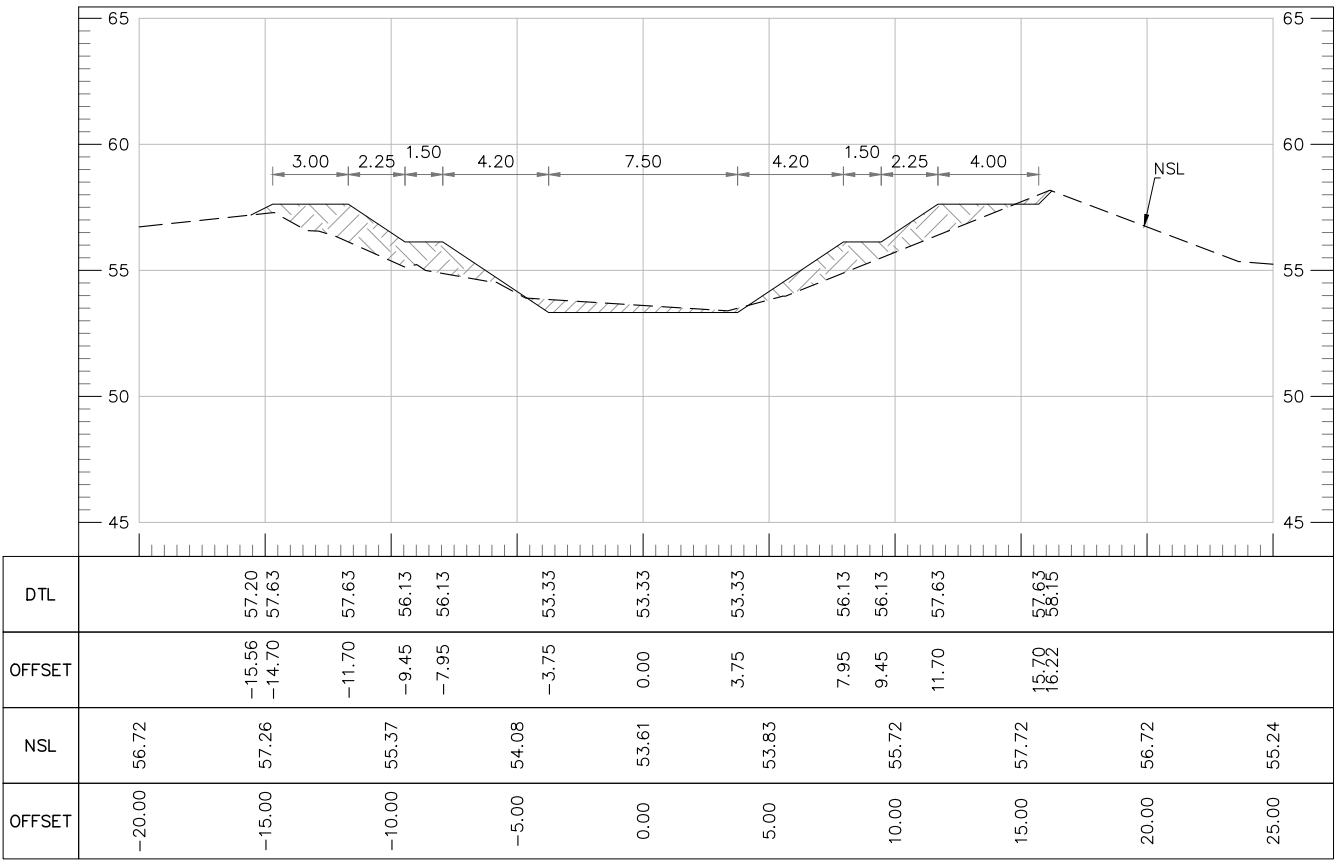


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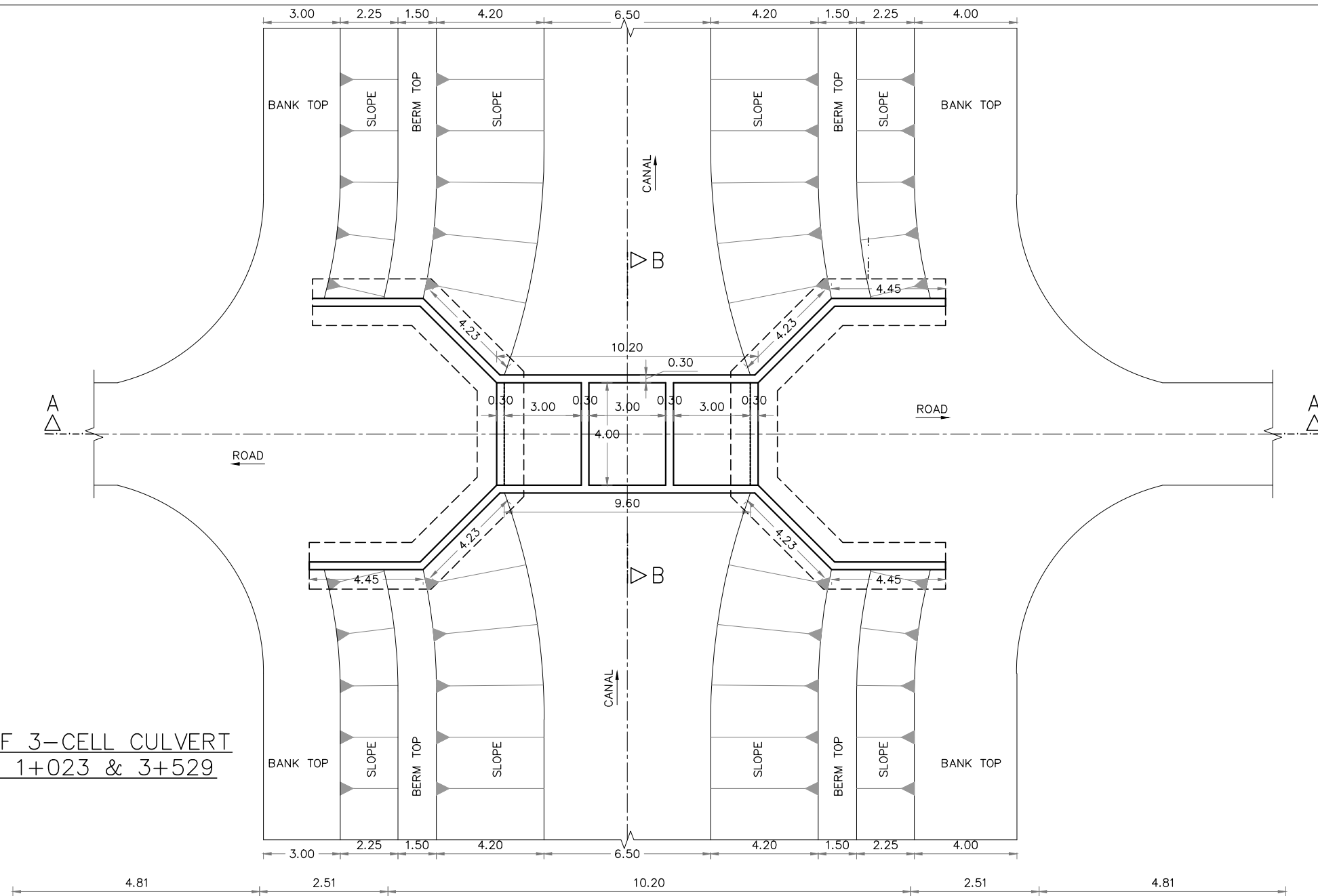
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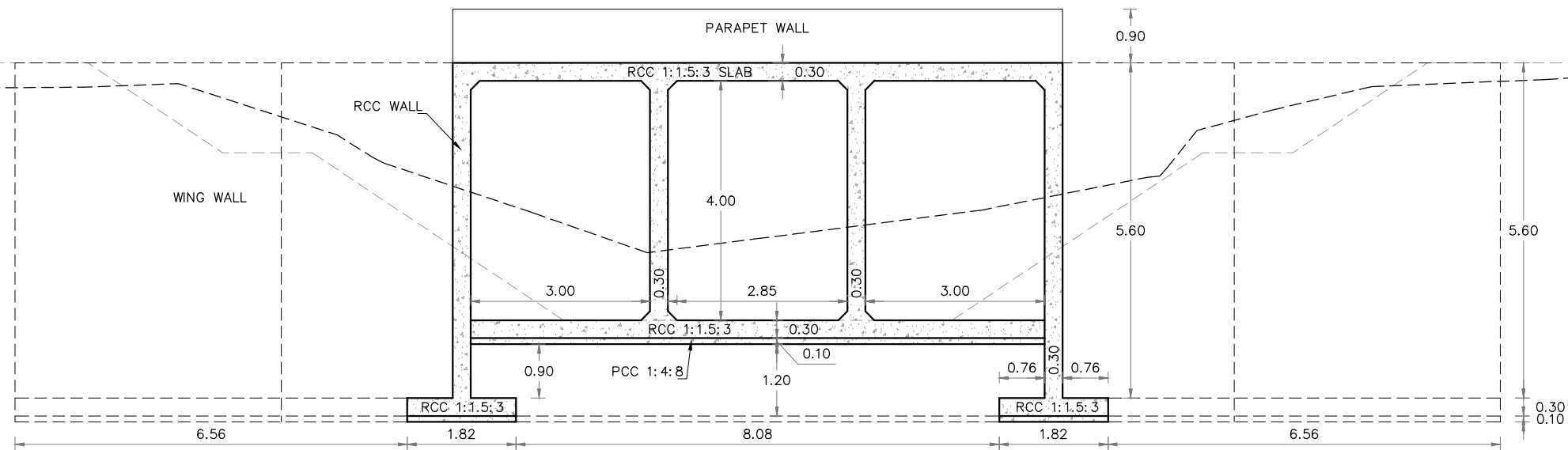
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TENDER DRAWINGS

PLAN OF 3-CELL CULVERT
AT RD 1+023 & 3+529
SCALE 1:200



SECTION A-A
SCALE 1:100



CLIENT:



IRRIGATION DEPARTMENT
GOVERNMENT OF
BALOCHISTAN

CONSULTANTS:

CAMEOS
CONSULTANTS
CONSULTING ENGINEERS ARCHITECTS & PLANNERS.
PLOT NO.07 PARIS ARCADE STREET, NO. 36 E-11/3 MARKAZ ISLAMABAD.
H. NO.38 CHAMAN HOUSING AIRPORT ROAD QUETTA.

PROJECT TITLE:

**INTEGRATED FLOOD RESILIENCE AND
ADAPTATION PROJECT**

SCHEME NAME:

**RESTORATION / STRENGTHENING OF
EMBANKMENT OF HAIRDIN MAIN DRAIN
FROM RD.0 TO RD.62 AND CONSTRUCTION
OF 3 NOS VRB AT DIFFERENT PLACES
DISTRICT SOHBAT PUR**

DRAWING TITLE:-

**PLAN AND SECTION A-A OF CULVERT
AT RD 1+023 & 3+529
(3-CELL)**

NOTES:

ALL LEVELS AND DIMENSIONS ARE
IN METERS UNLESS INDICATED
OTHERWISE.

DRAWN BY: FAISAL / USAMA

CHECKED BY: ZIA-UL-HAQ

FILE PATH: G:/IFRAP

DRAWING NO: IFRAP-P05/HMD-21

DESIGNED BY: KAMRAN BABAR

SCALE: AS SHOWN

DATE: AUG / 2025

SHEET:- 01 OF 01