

OLIVER LAKE DD LATERAL 1

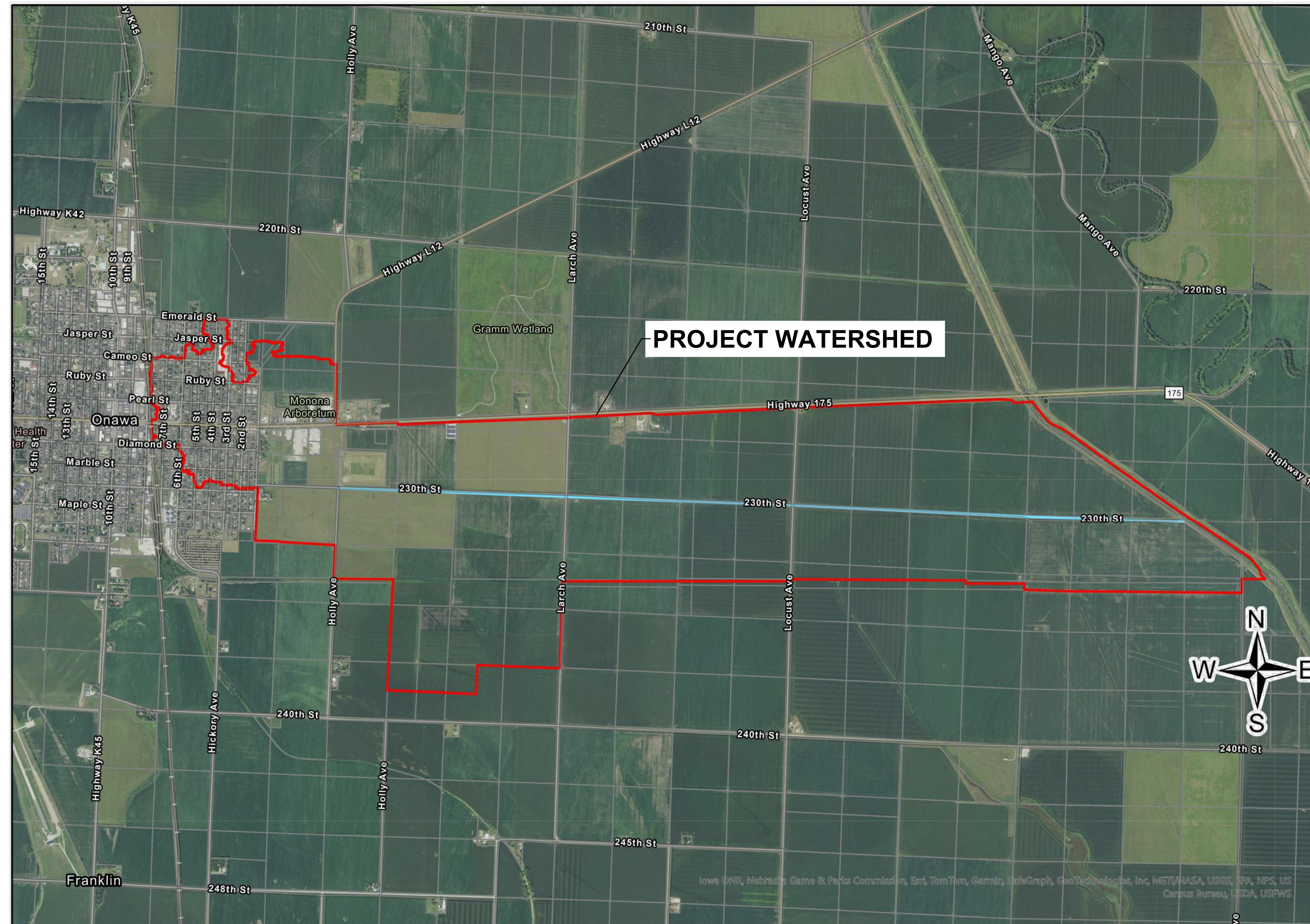
ONAWA, IOWA

ISG PROJECT # 23-29660



LEGEND

EXISTING	
	WATERSHED BOUNDARY
	CITY LIMITS
	SECTION LINE
	QUARTER SECTION LINE
	RIGHT OF WAY LINE
	PROPERTY / LOTLINE
	EASEMENT LINE
	ACCESS CONTROL
	WATER EDGE
	WETLAND BOUNDARY
	FENCE LINE
	EXISTING OPEN DITCH
	CULVERT
	TILE
	PRIVATE TILE
	WATER
	GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND TV
	OVERHEAD UTILITY
	UNDERGROUND UTILITY
	UNDERGROUND FIBER OPTIC
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
	DECIDUOUS TREE
	CONIFEROUS TREE
	TREE LINE
	DROP INTAKE
	HYDRANT
	POWER POLE
PROPOSED	
	EASEMENT
	PROPOSED OPEN DITCH
	OPEN DITCH REPAIR
	CULVERT (RCP)
	CULVERT (CMP)
	CULVERT (HDPE)
	TILE
	TILE (PIPE WIDTH)
	PRIVATE TILE
	WATER
	GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TV
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
	DROP INTAKE
	SLOUGH REPAIR
	SPOIL PLACEMENT
	TREE CLEARING
	REMOVE TREE
	BUFFER



LOCATION MAP

SHEET INDEX

- 1 TITLE
- 2 DETAILS
- 3-10 PLAN - PROFILE LATERAL 1
- 11-43 CROSS SECTIONS LATERAL 1

GIS DISCLAIMER:
INFORMATION FOR THE BOUNDARY / LOT LINES, AND UNDERGROUND UTILITIES SHOWN WAS DERIVED FROM DIGITAL DATABASES AND IS FOR INFORMATIONAL PURPOSES ONLY. DATA MAY NOT HAVE BEEN PREPARED FOR, OR BE SUITABLE FOR, LEGAL, ENGINEERING, OR SURVEYING PURPOSES.

PROJECT GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS, AND CLARIFICATIONS ISSUED BY ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "IOWA ONE CALL" FOR UTILITY LOCATIONS A MINIMUM OF 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-292-8989).



NOTE:
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PROJECT

OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 TITLE
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

PROJECT INDEX:

OWNER:
**MONONA COUNTY
DRAINAGE DISTRICT
COURTHOUSE
610 IOWA AVE. FIRST FLOOR
ONAWA, IOWA 51040
PH: 712-433-2630**

**PROJECT
ADDRESS / LOCATION:**
**SECTIONS 1-3 ONAWA TWP.
SECTION 6 BELVIDERE TWP.
MONONA COUNTY, IOWA**

MANAGING OFFICE:

**STORM LAKE OFFICE
1725 LAKE AVE. NORTH
STORM LAKE, IA 50588
PHONE: 712.732.7745**

**PROJECT MANAGER: CALEB RASMUSSEN
EMAIL: CALEB.RASMUSSEN@ISGNC.COM**

SPECIFICATIONS REFERENCE
ALL CONSTRUCTION SHALL COMPLY WITH MONONA COUNTY'S REQUIREMENTS AND WITH THE 2024 EDITION OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) FOR PUBLIC IMPROVEMENTS, UNLESS DIRECTED OTHERWISE.

PROJECT DATUM
HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT, ON THE NSRS11 IA-NF COORDINATE SYSTEM, IN U.S. SURVEY FEET.
ELEVATIONS HAVE BEEN REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
RTK GPS METHODS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL COORDINATES FOR THIS PROJECT.

B.M. ELEVATION=1048.55
5/8" REBAR AT THE SW CORNER OF THE STORM STORAGE POND FENCE ON THE EAST SIDE OF THE DRIVEWAY.

TOPOGRAPHIC SURVEY
THIS PROJECT'S TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED IN 2022 BY VEENSTRA & KIM INC.

TITLE
TITLE

SHEET
1
OF 43



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PROJECT
OLIVER LAKE DRAINAGE DITCH LATERAL 1

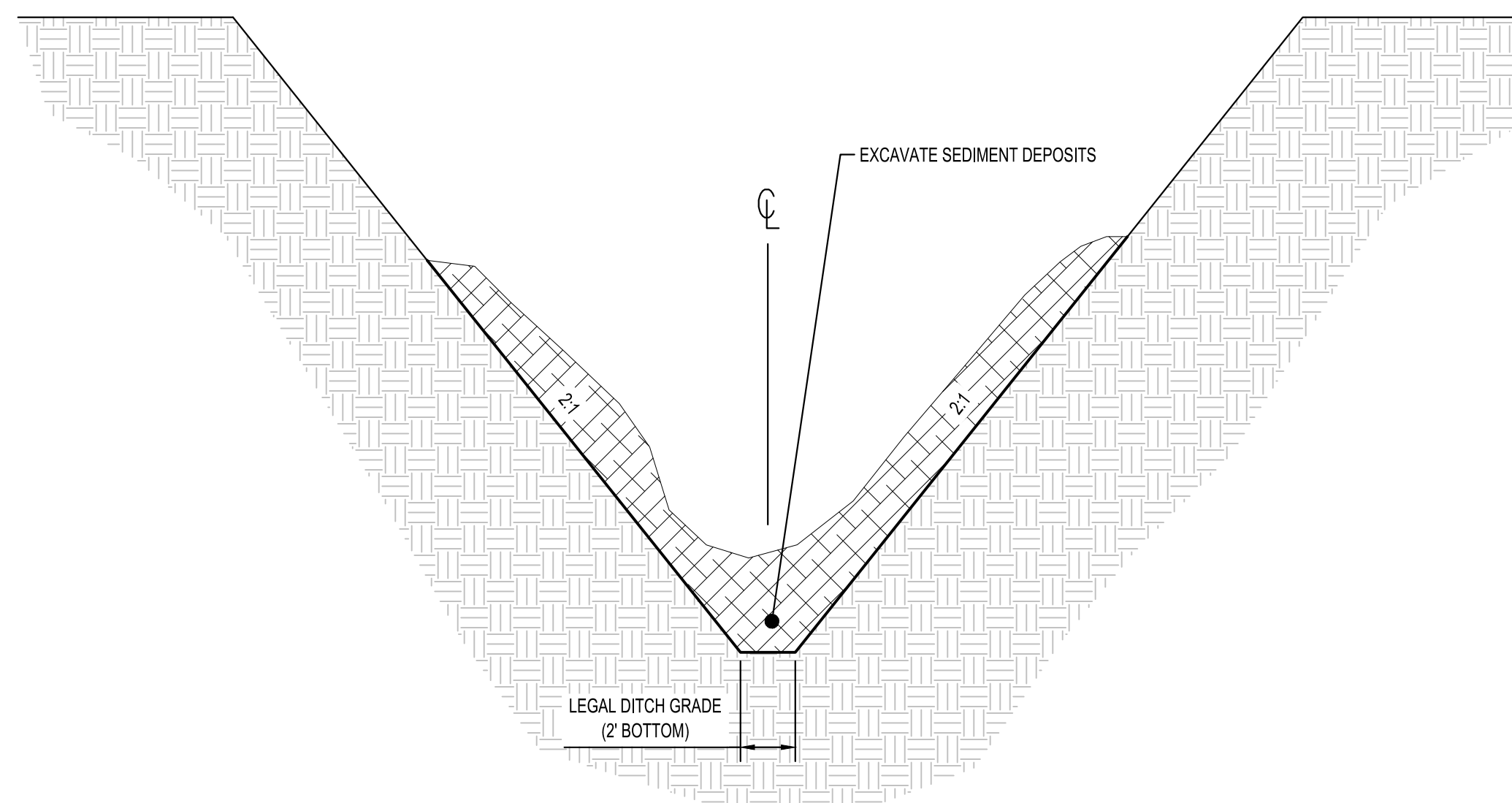
ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 DETAILS
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE
DETAILS

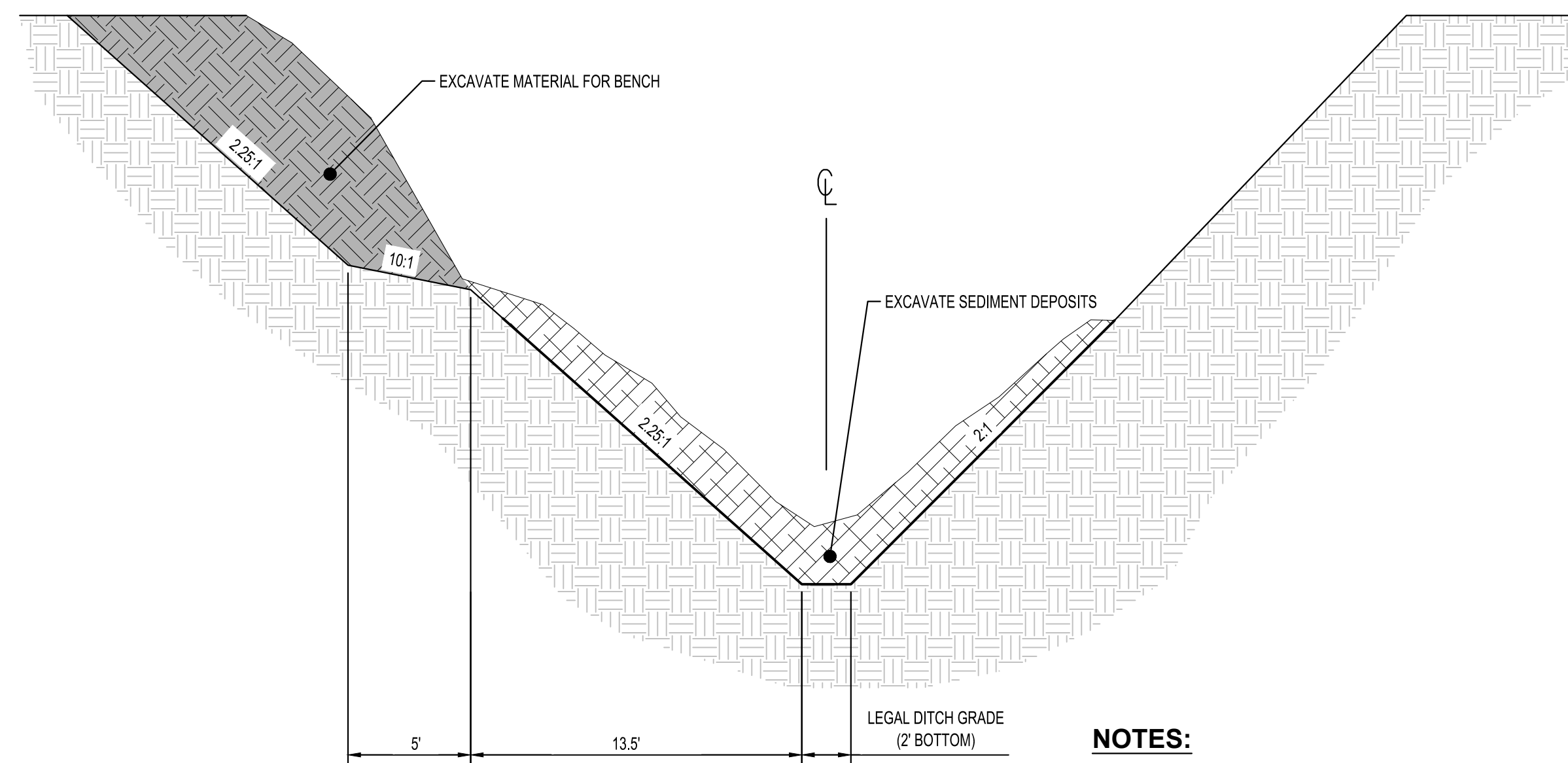
SHEET
2 OF 43



NOTES:

1. TYPICAL DITCH CLEANING INCLUDES EXCAVATION OF SEDIMENT DEPOSITS AND SPOIL PLACEMENT AND LEVELING.
2. DO NOT OVER EXCAVATE DITCH BOTTOM OR SIDE SLOPES WHEN CLEANING SEDIMENT.
3. TYPICAL DETAIL- REFER TO CROSS-SECTIONS FOR DIMENSIONS.
5. EXISTING AREAS WITH TOPSOIL ON BANKS SHALL BE REUSED TO DRESS SIDE SLOPES AS APPROVED BY ENGINEER IN FIELD.
6. DITCH BANK SEEDING MUST OCCUR WITHIN 2 DAYS OF CONSTRUCTION.

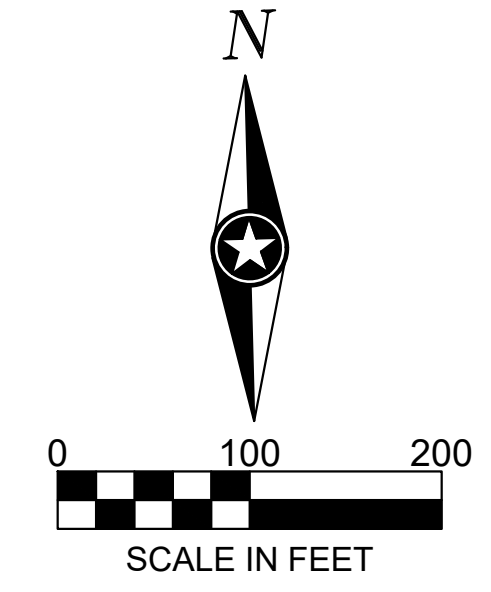
TYPICAL DITCH CLEANING
NTS



NOTES:

1. TYPICAL DITCH CLEANING INCLUDES EXCAVATION OF SEDIMENT DEPOSITS AND SPOIL PLACEMENT AND LEVELING.
2. DO NOT OVER EXCAVATE DITCH BOTTOM OR SIDE SLOPES WHEN CLEANING SEDIMENT.
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5. EXISTING AREAS WITH TOPSOIL ON BANKS SHALL BE REUSED TO DRESS SIDE SLOPES AS APPROVED BY ENGINEER IN FIELD.
6. DITCH BANK SEEDING MUST OCCUR WITHIN 2 DAYS OF CONSTRUCTION.

TYPICAL DITCH CLEANING WITH BENCH
NTS



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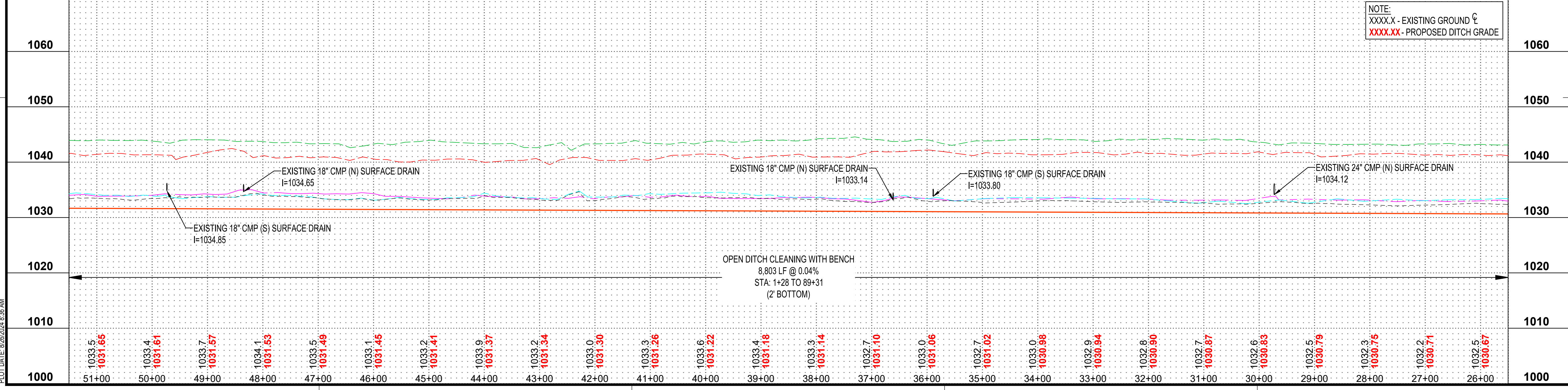
PROFILE LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
	TOP OF DITCH (RIGHT)
	TOP OF DITCH (LEFT)
	TOE OF DITCH (RIGHT)
	TOE OF DITCH (LEFT)
	EXISTING DITCH GRADE
	PROPOSED DITCH GRADE

PROJECT
OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 LATERAL 1 PROFILES
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	

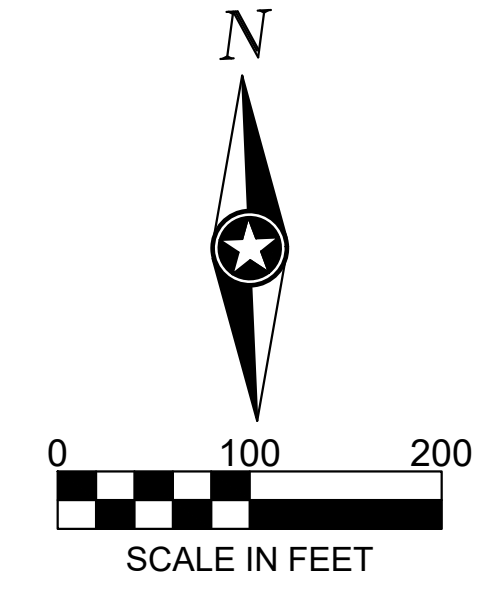


TITLE
PLAN - PROFILE LATERAL 1

SHEET
4 OF 43

PLOT DATE: 8/26/2024 8:36 AM

PRELIMINARY NOT FOR CONSTRUCTION



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PROFILE LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
	TOP OF DITCH (RIGHT)
	TOP OF DITCH (LEFT)
	TOE OF DITCH (RIGHT)
	TOE OF DITCH (LEFT)
	EXISTING DITCH GRADE
	PROPOSED DITCH GRADE

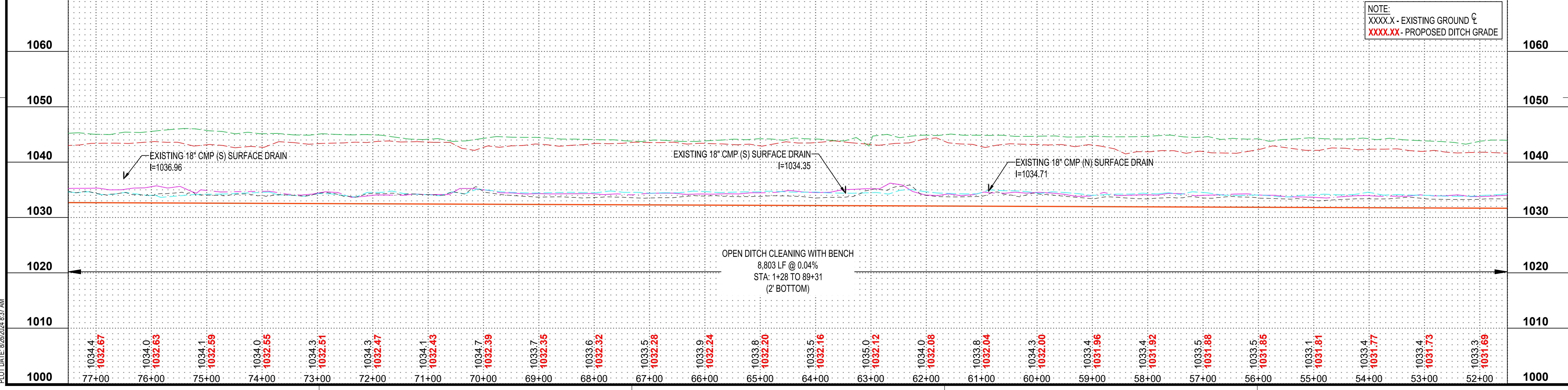
PROJECT
OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 LATERAL 1 PROFILES
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE
PLAN - PROFILE LATERAL 1

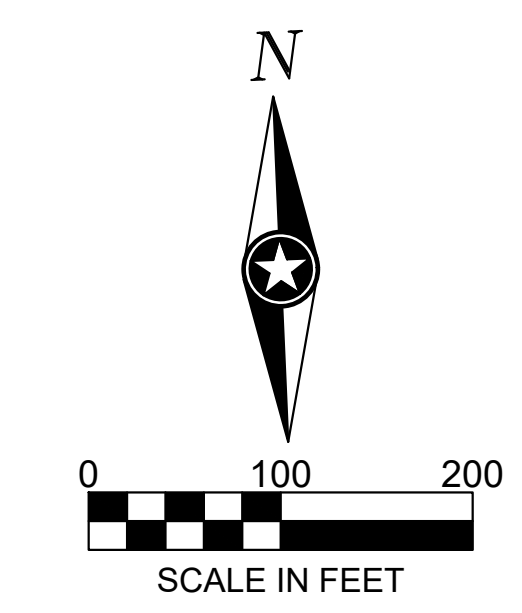


NOTE:
XXXX.X - EXISTING GROUND ζ
XXXX.XX - PROPOSED DITCH GRADE

SHEET
5
OF 43

PLOT DATE: 8/26/2024 8:37 AM

PRELIMINARY NOT FOR CONSTRUCTION



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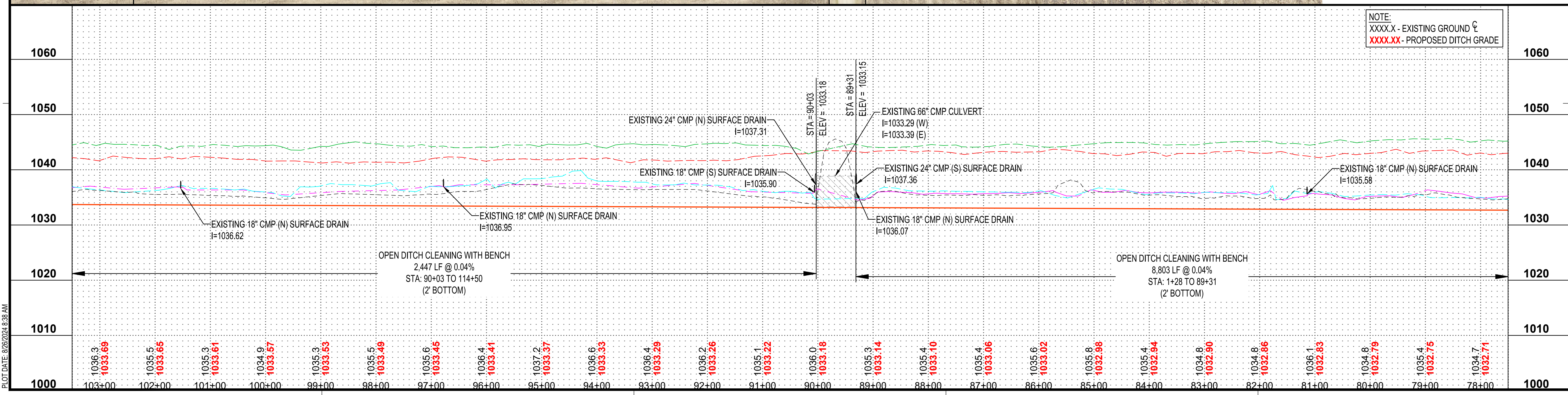
PROFILE LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
	TOP OF DITCH (RIGHT)
	TOP OF DITCH (LEFT)
	TOE OF DITCH (RIGHT)
	TOE OF DITCH (LEFT)
	EXISTING DITCH GRADE
	PROPOSED DITCH GRADE

PROJECT
OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

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REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	

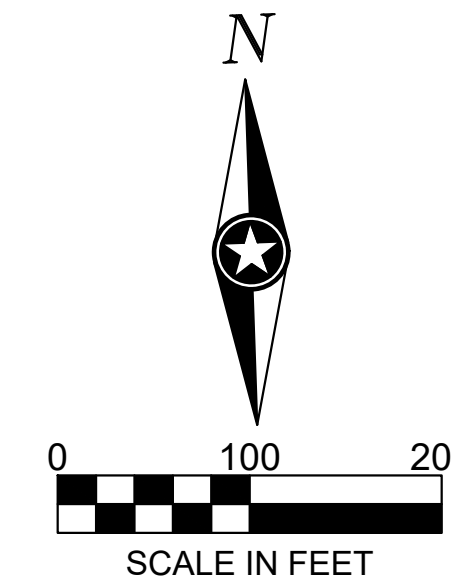


TITLE
PLAN - PROFILE LATERAL 1

SHEET
6 OF 43

PLOT DATE: 8/26/2024 8:38 AM

PRELIMINARY NOT FOR CONSTRUCTION



NELSON & ROCK CONTRACTING, INC
38.48 AC

PROPERTY LINE (TYP)

NELSON & ROCK CONTRACTING, INC
38.48 AC

EXISTING 18" CMP (N) SURFACE DRAIN
I=1037.74

EXISTING 18" CMP (N) SURFACE DRAIN
I=1037.74

EXISTING 18" CMP (N) SURFACE DRAIN
I=1036.34

EXISTING 36" CMP (S) SURFACE DRAIN
I=1038.38

EXISTING 18" CMP (S) SURFACE DRAIN
I=1037.02

HAWTHORN LAND HOLDINGS, LLC
39.00 AC

KROGH INVESTMENTS, INC
9.52 AC

KROGH INVESTMENTS, INC
28.45 AC



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PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

- TOP OF DITCH (RIGHT)
- TOP OF DITCH (LEFT)
- TOE OF DITCH (RIGHT)
- TOE OF DITCH (LEFT)
- EXISTING DITCH GRADE
- PROPOSED DITCH GRADE

**OLIVER LAKE
DRAINAGE DITCH
LATERAL 1**

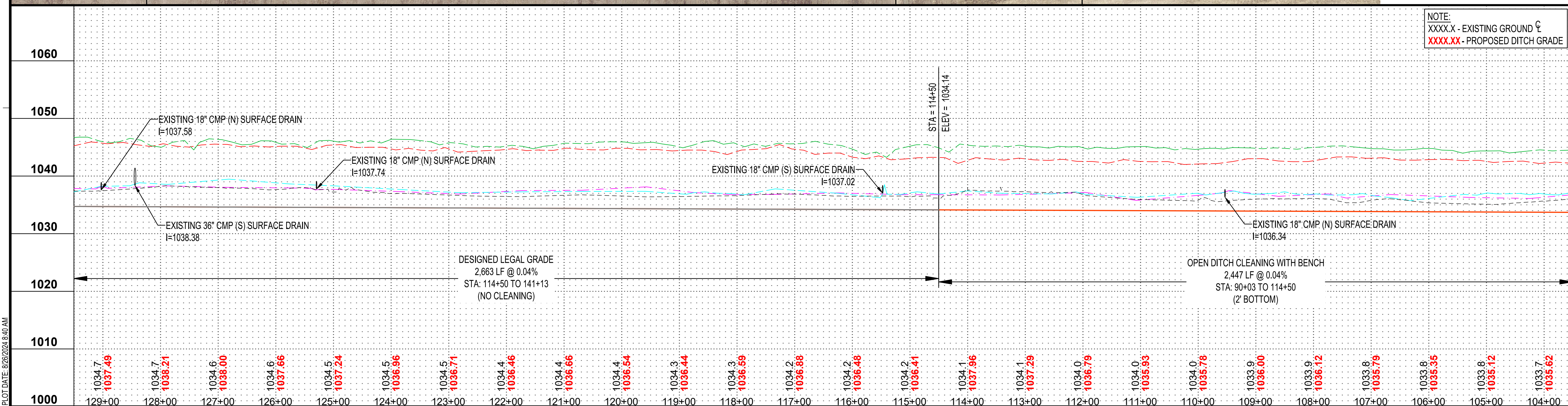
ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 LATERAL 1 PROFILES
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	

**PLAN - PROFILE
LATERAL 1**

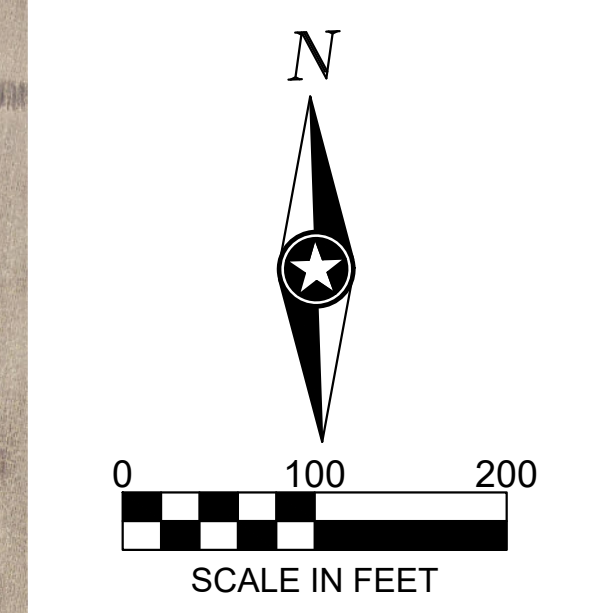
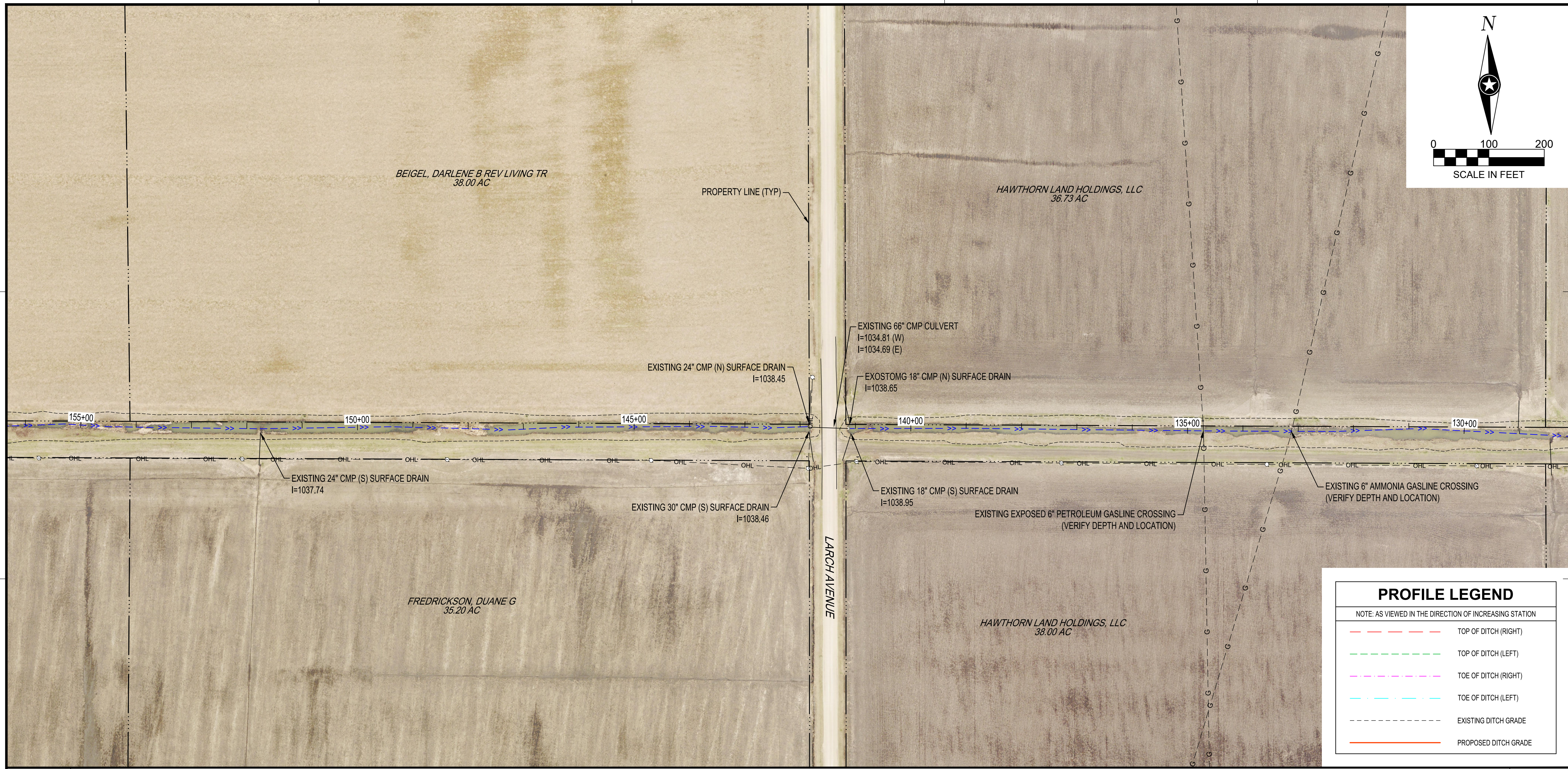
SHEET **7** OF 43



NOTE:
XXXX.X - EXISTING GROUND ζ
XXXX.XX - PROPOSED DITCH GRADE

PLOT DATE: 8/26/2024 8:40 AM

PRELIMINARY NOT FOR CONSTRUCTION



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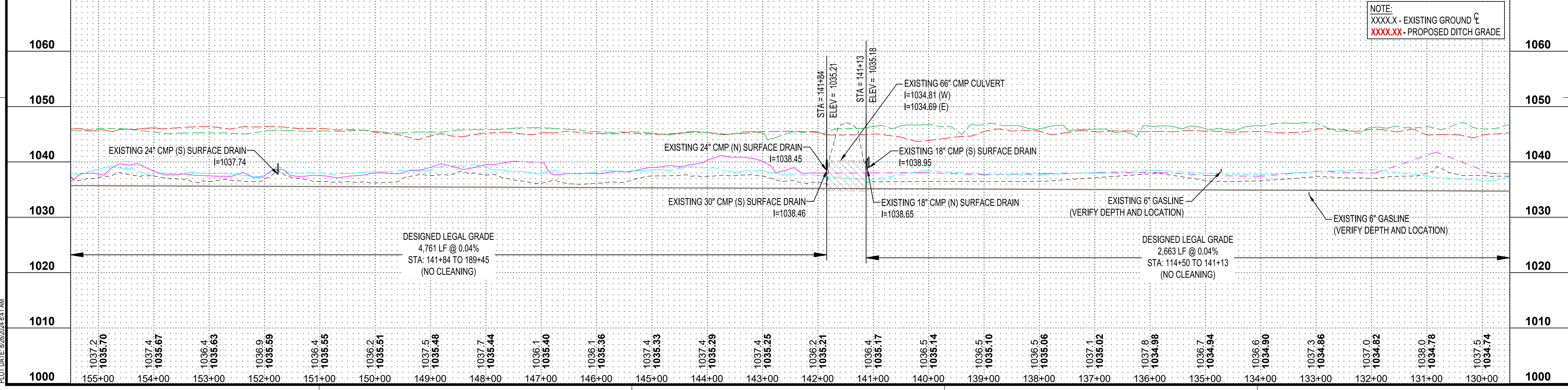
PROFILE LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
	TOP OF DITCH (RIGHT)
	TOP OF DITCH (LEFT)
	TOE OF DITCH (RIGHT)
	TOE OF DITCH (LEFT)
	EXISTING DITCH GRADE
	PROPOSED DITCH GRADE

PROJECT
OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 LATERAL 1 PROFILES
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

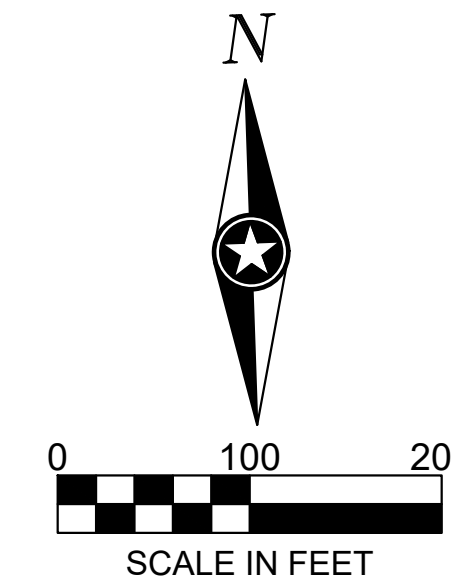


TITLE
PLAN - PROFILE LATERAL 1

SHEET
8
OF 43

PLOT DATE: 8/26/2024 8:41 AM

PRELIMINARY NOT FOR CONSTRUCTION



MIDLAND DEVELOPMENT CORP
43.56 AC

BEIGEL, DARLENE B REV LIVING TR
39.00 AC

MYERS, VERNON L
39.00 AC

FREDRICKSON, DUANE G
39.00 AC

EXISTING 18" CMP (N) SURFACE DRAIN
I=1039.47

EXISTING 18" CMP (N) SURFACE DRAIN
I=1038.65

EXISTING 18" CMP (N) SURFACE DRAIN
I=1038.35

EXISTING 24" CMP (S) SURFACE DRAIN
I=1039.01

EXISTING 24" CMP (S) SURFACE DRAIN
I=1038.10

EXISTING 24" CMP (S) SURFACE DRAIN
I=1038.46

POWER POLE (TYP)

OVERHEAD LINE (TYP)

PROPERTY LINE (TYP)



1-800-292-8989
www.iowaonecall.com



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PROFILE LEGEND

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- TOP OF DITCH (RIGHT)
- TOP OF DITCH (LEFT)
- TOE OF DITCH (RIGHT)
- TOE OF DITCH (LEFT)
- EXISTING DITCH GRADE
- PROPOSED DITCH GRADE

PROJECT

OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

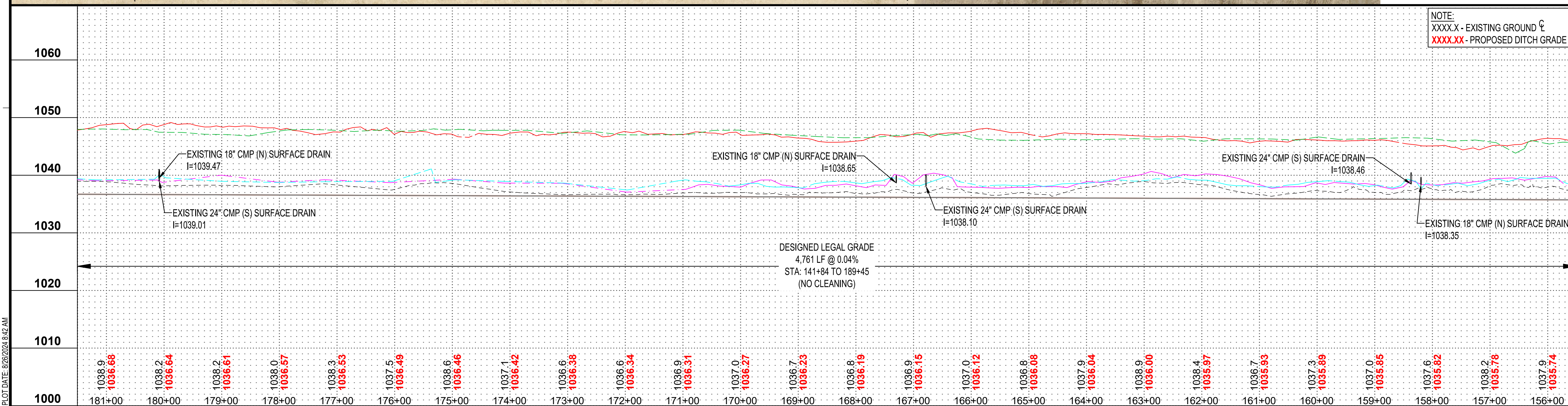
REVISION SCHEDULE

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CLIENT PROJECT NO.	-

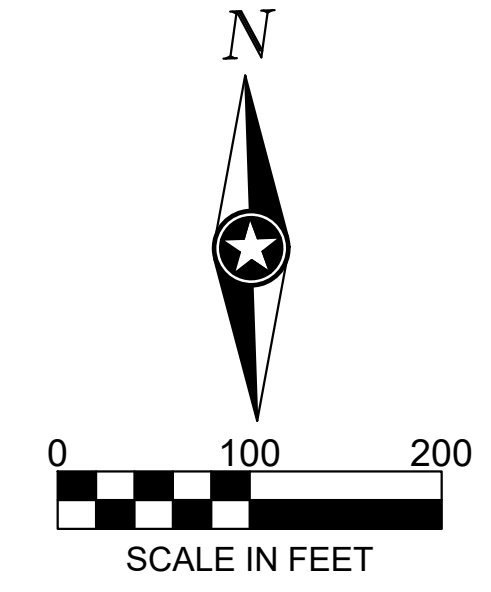
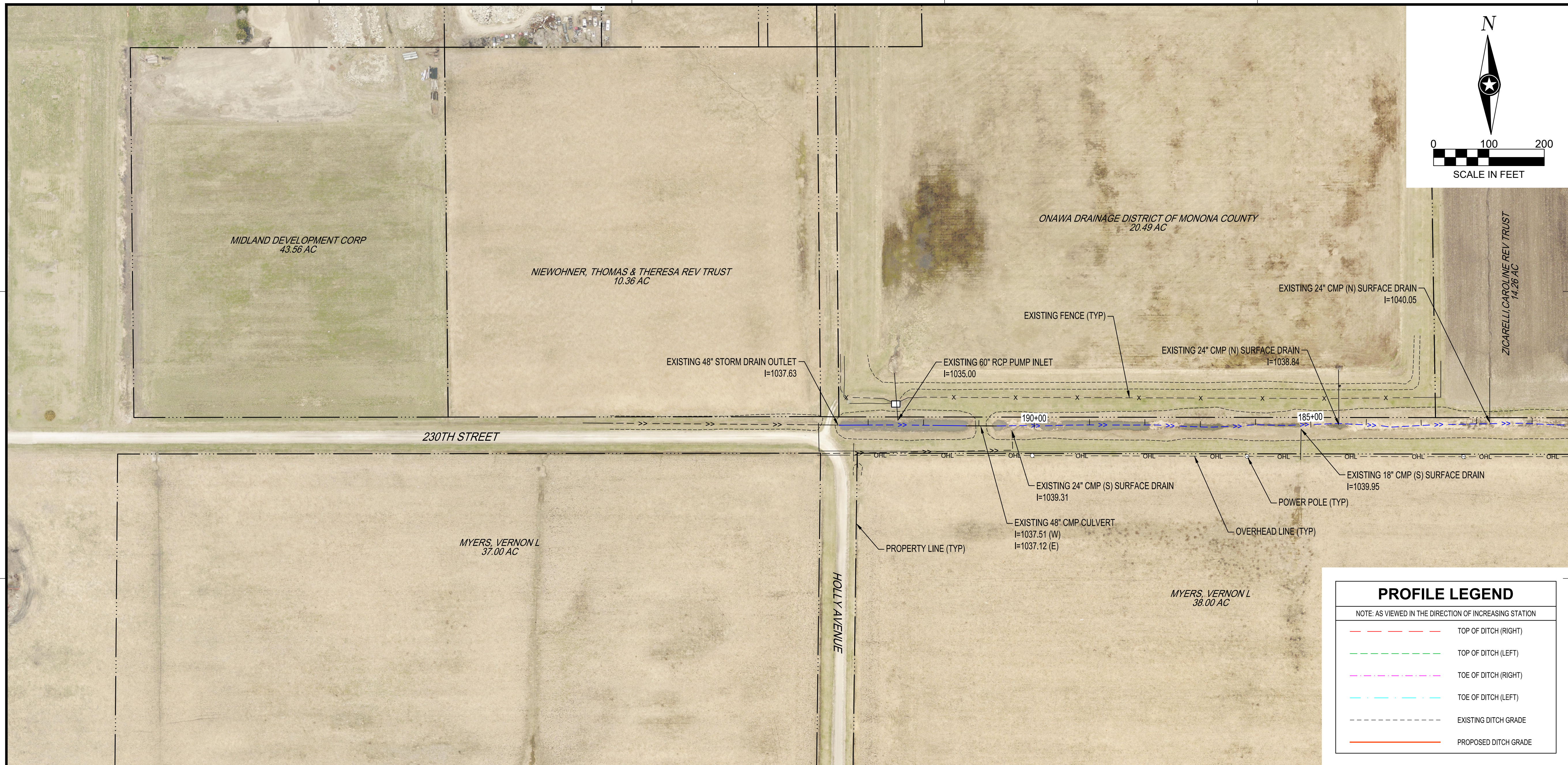
PLAN - PROFILE LATERAL 1

SHEET
9
OF 43



PLOT DATE: 8/26/2024 8:42 AM

PRELIMINARY NOT FOR CONSTRUCTION



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	EXISTING DITCH GRADE
	PROPOSED DITCH GRADE

PROJECT
OLIVER LAKE DRAINAGE DITCH LATERAL 1

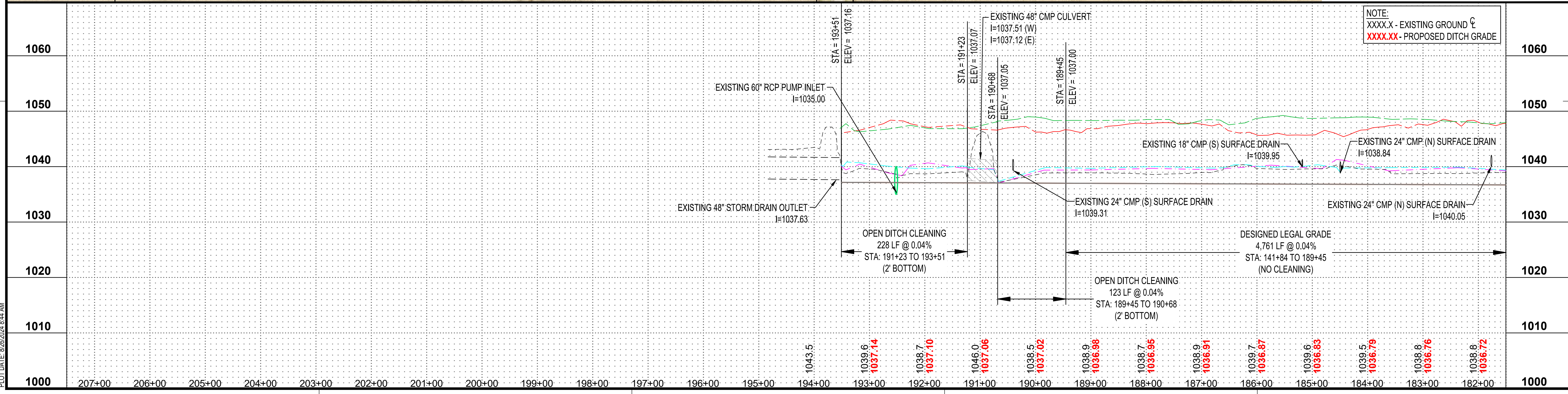
ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
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DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE
PLAN - PROFILE LATERAL 1

SHEET
10
OF 43



NOTE:
XXXX.X - EXISTING GROUND ζ
XXXX.XX - PROPOSED DITCH GRADE

PLOT DATE: 8/26/2024 8:44 AM

PRELIMINARY NOT FOR CONSTRUCTION



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PROJECT

**OLIVER LAKE
DRAINAGE DITCH
LATERAL 1**

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 SECTIONS
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

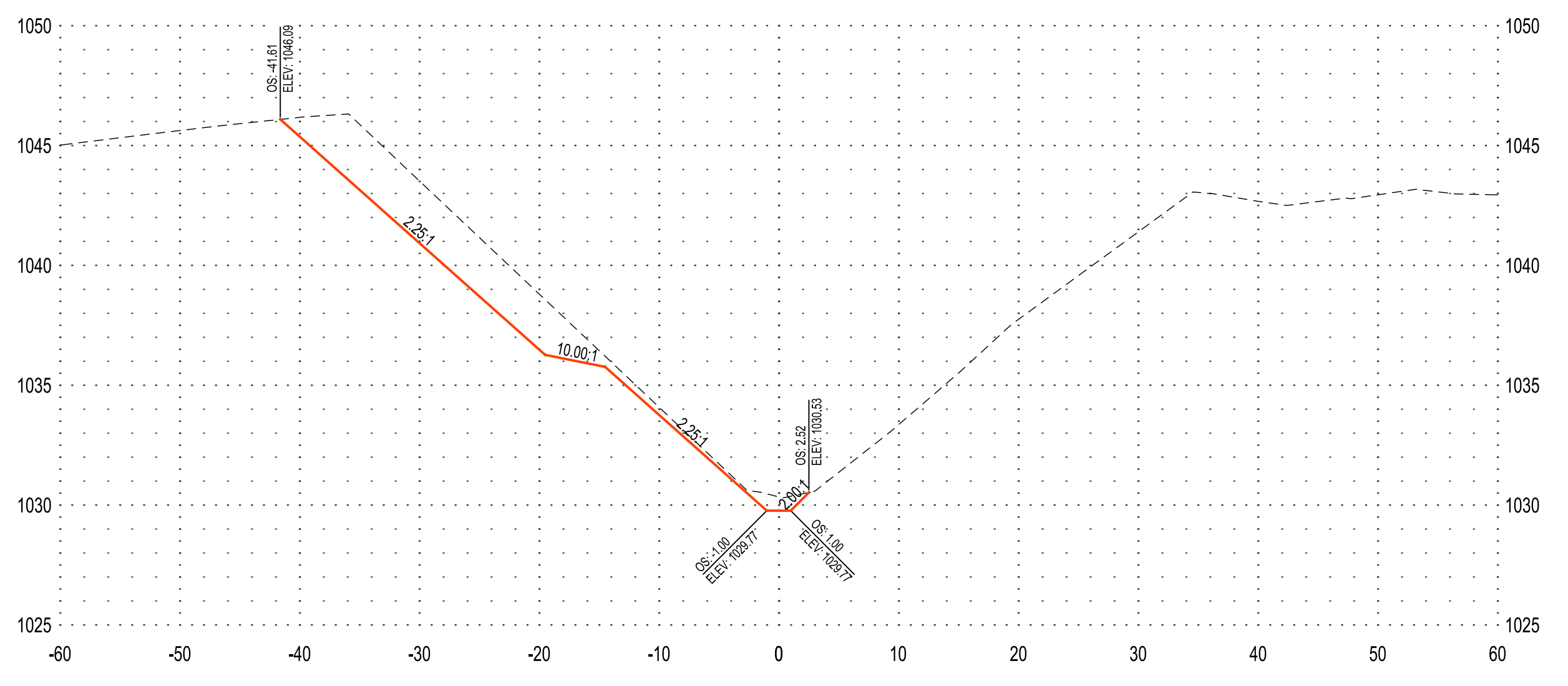
TITLE

**CROSS SECTIONS
LATERAL 1**

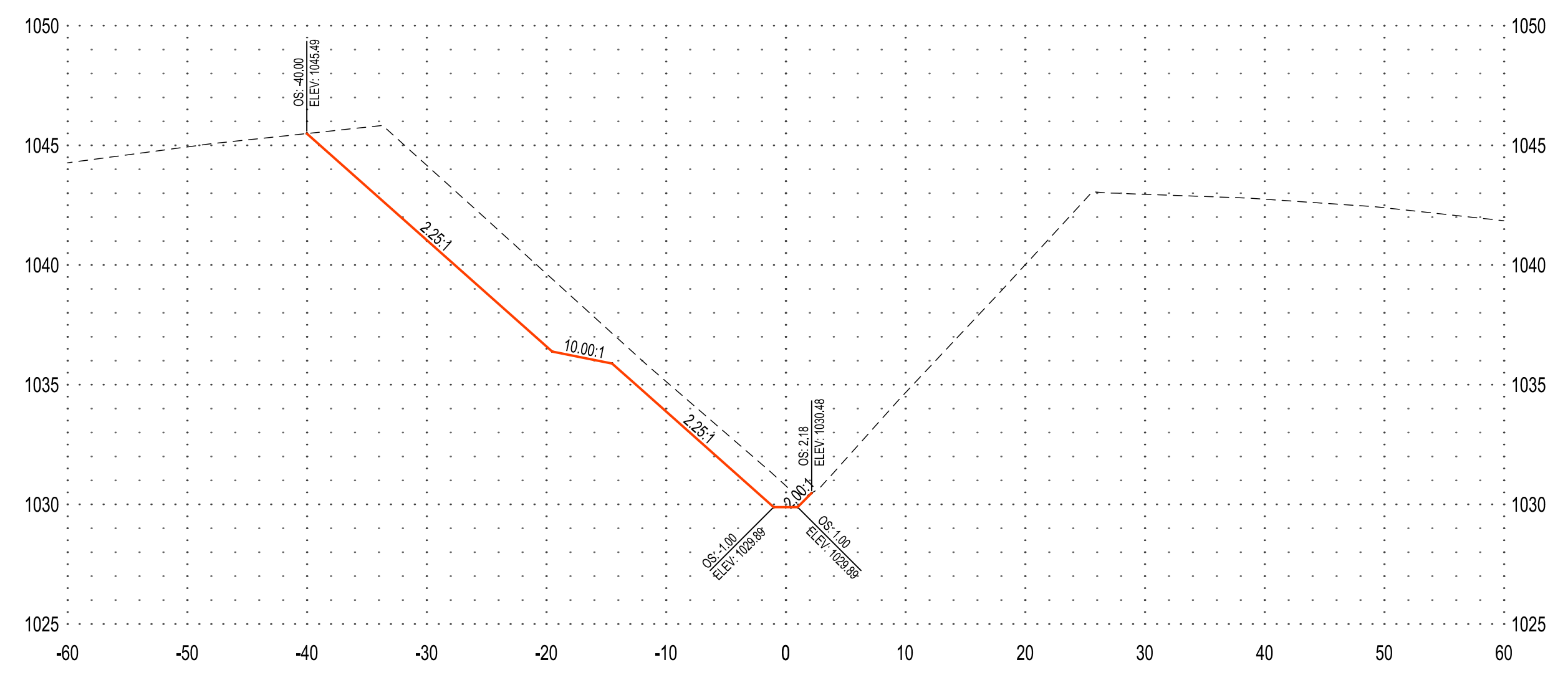
SHEET

PRELIMINARY NOT FOR CONSTRUCTION

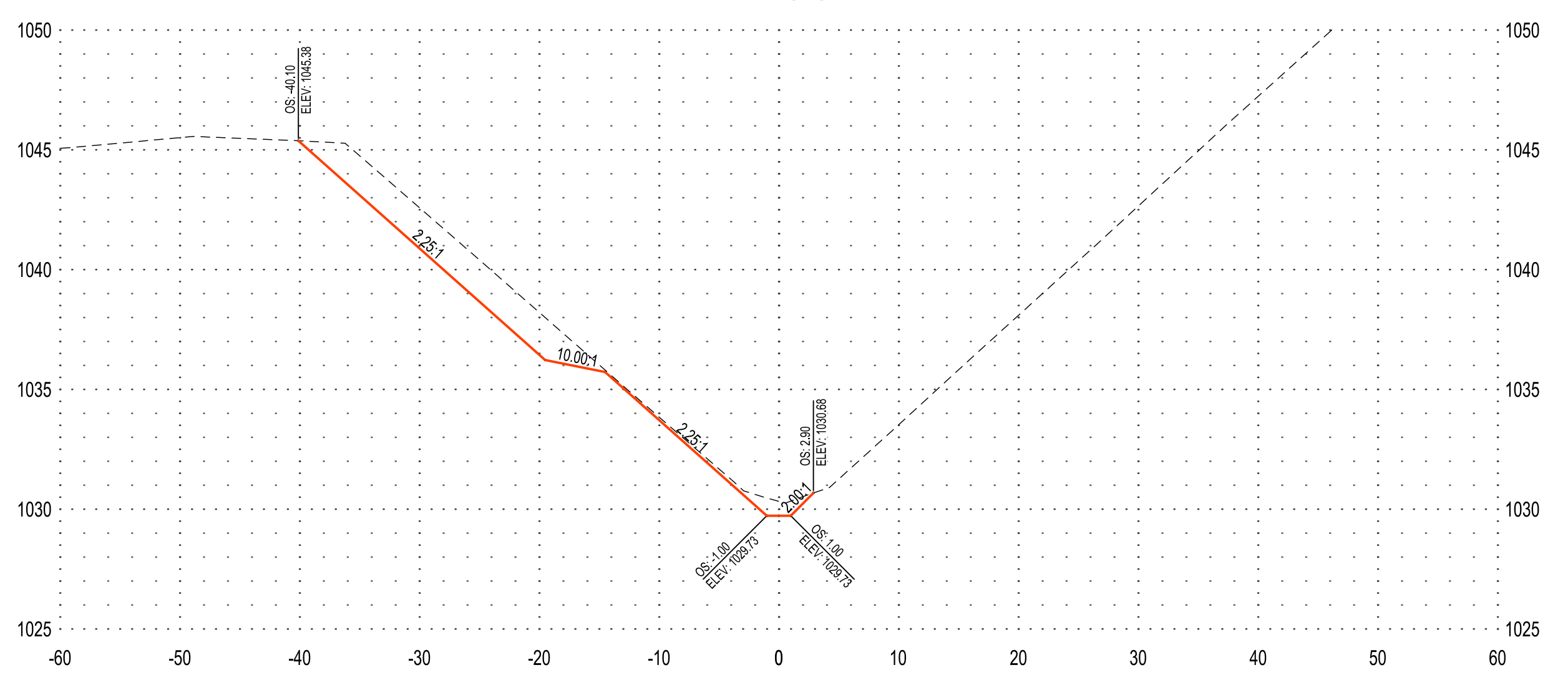
3+00



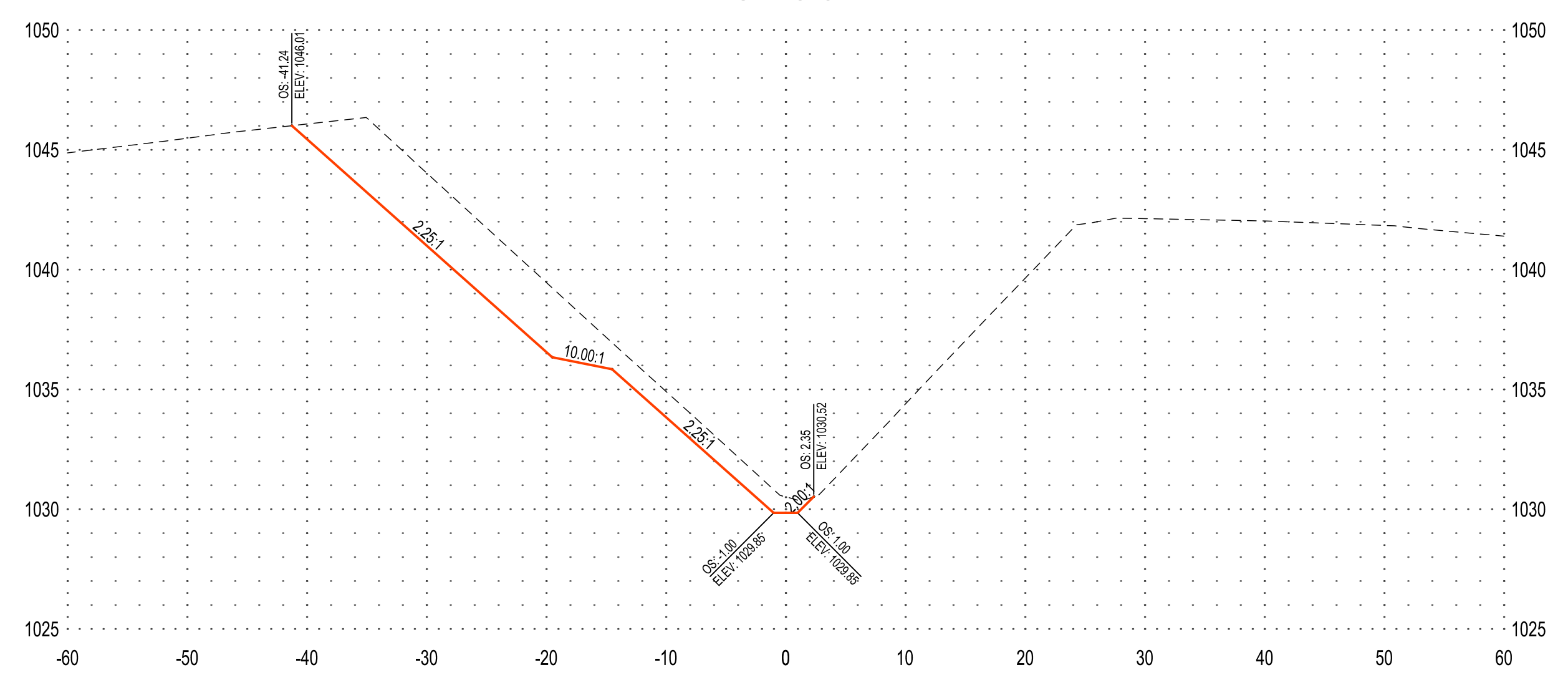
6+00



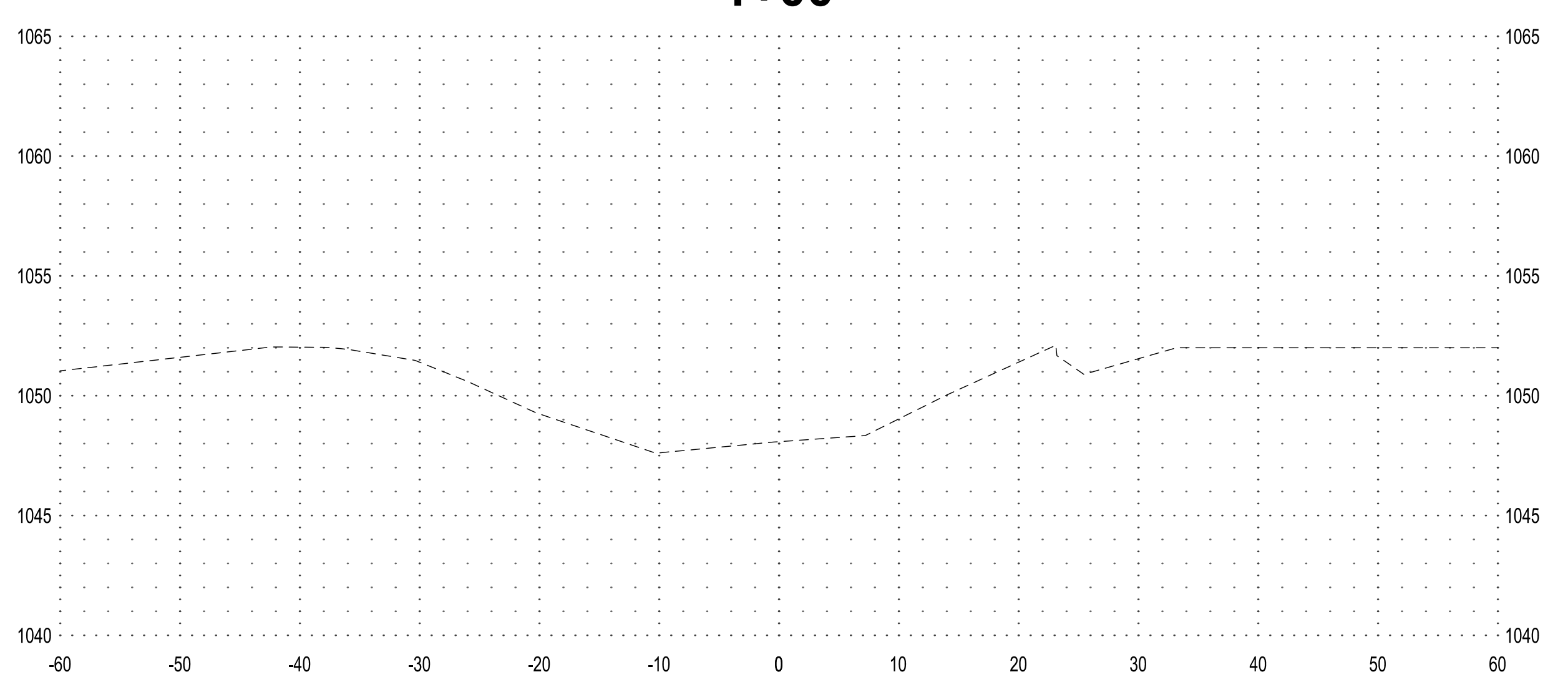
2+00



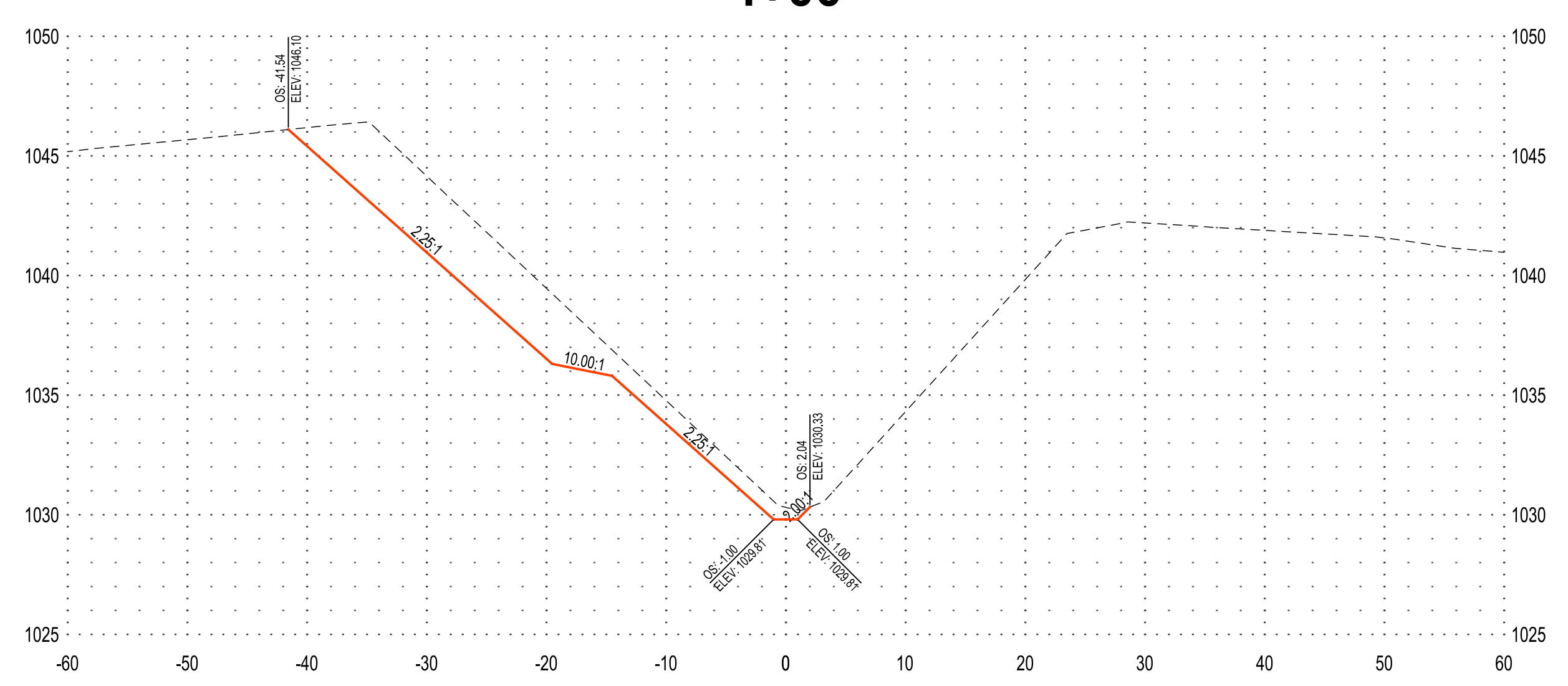
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1+00



4+00





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PROJECT

**OLIVER LAKE
DRAINAGE DITCH
LATERAL 1**

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-29660
FILE NAME	29660 SECTIONS
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

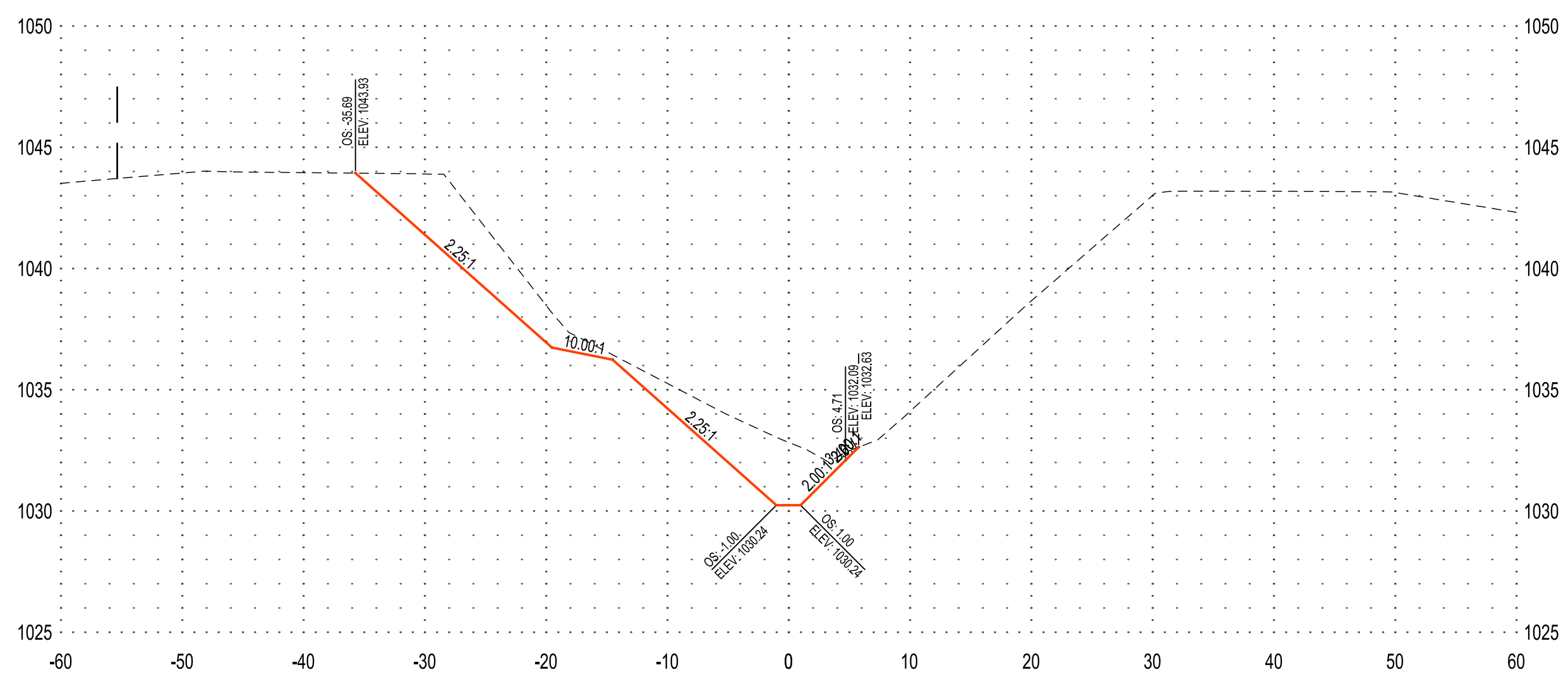
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**CROSS SECTIONS
LATERAL 1**

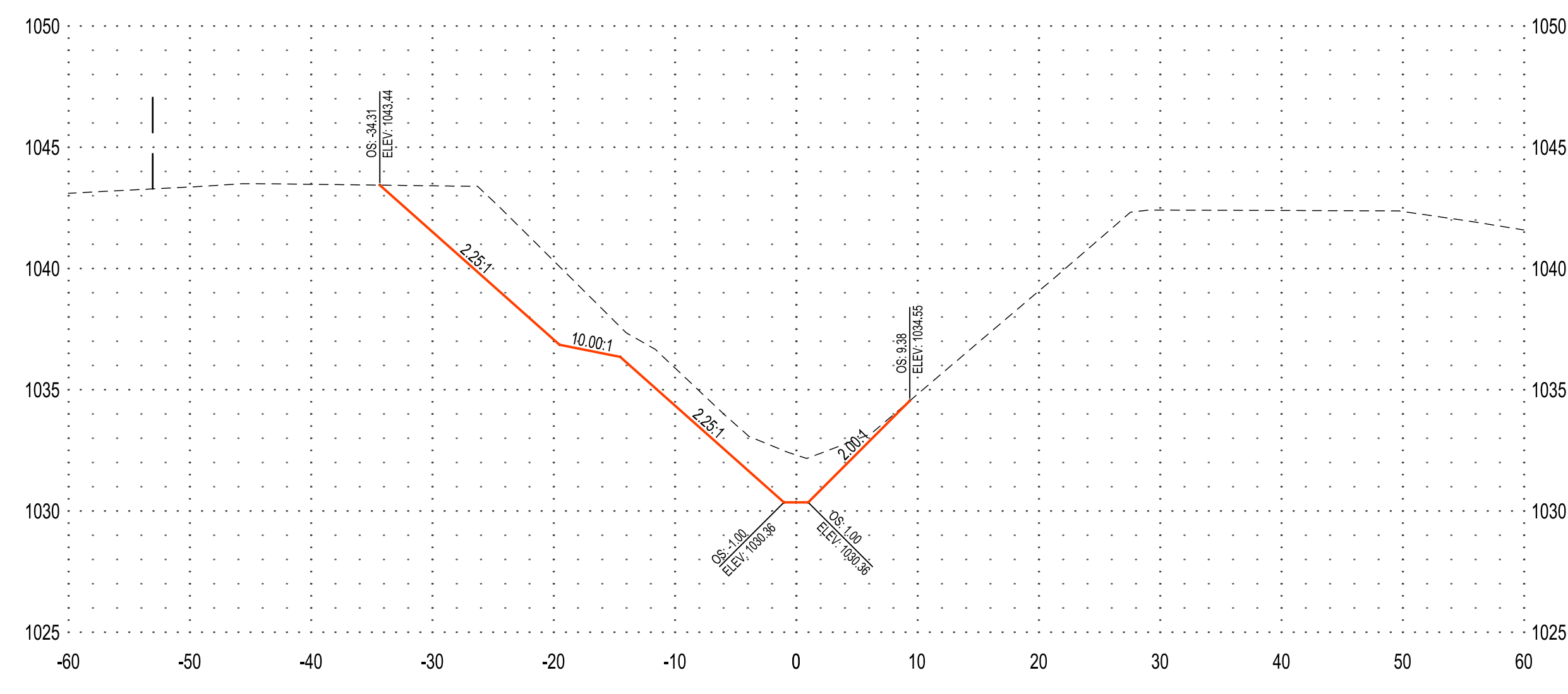
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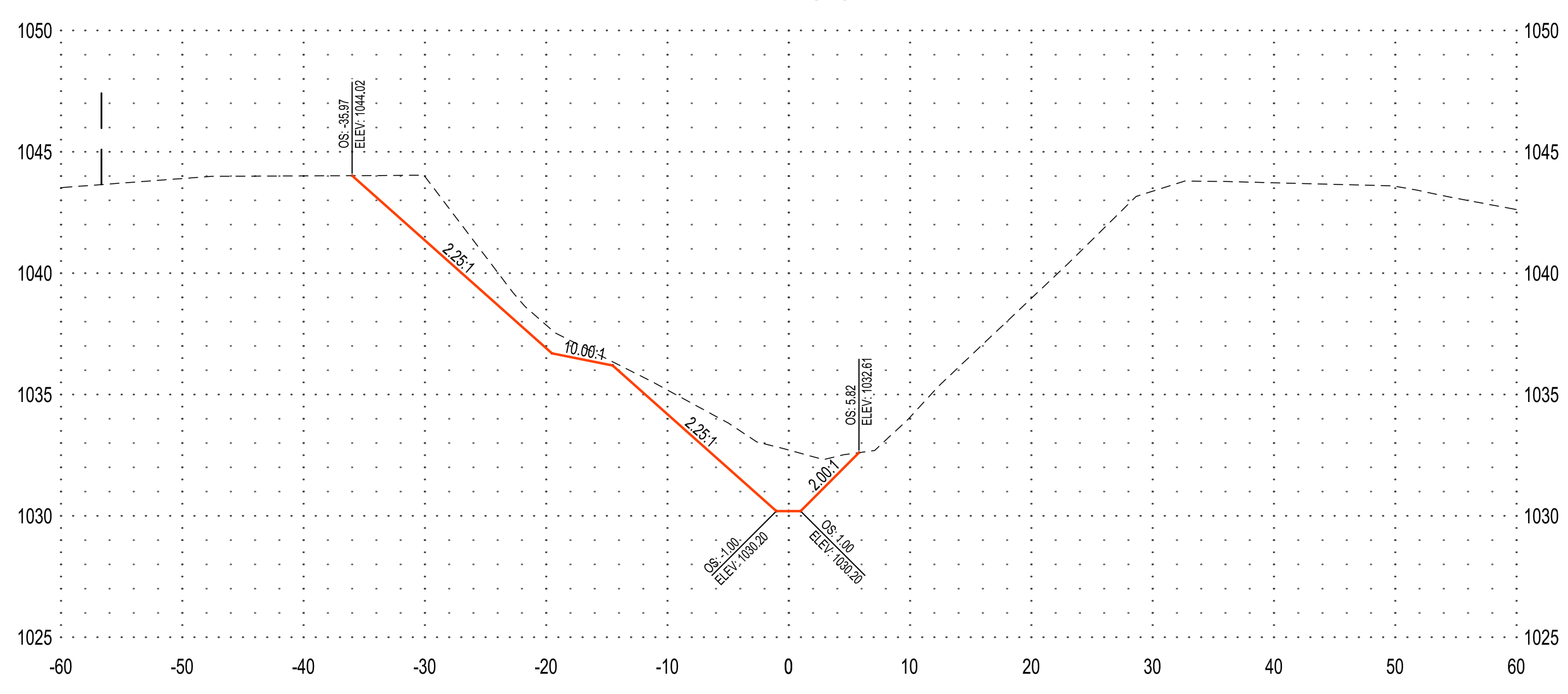
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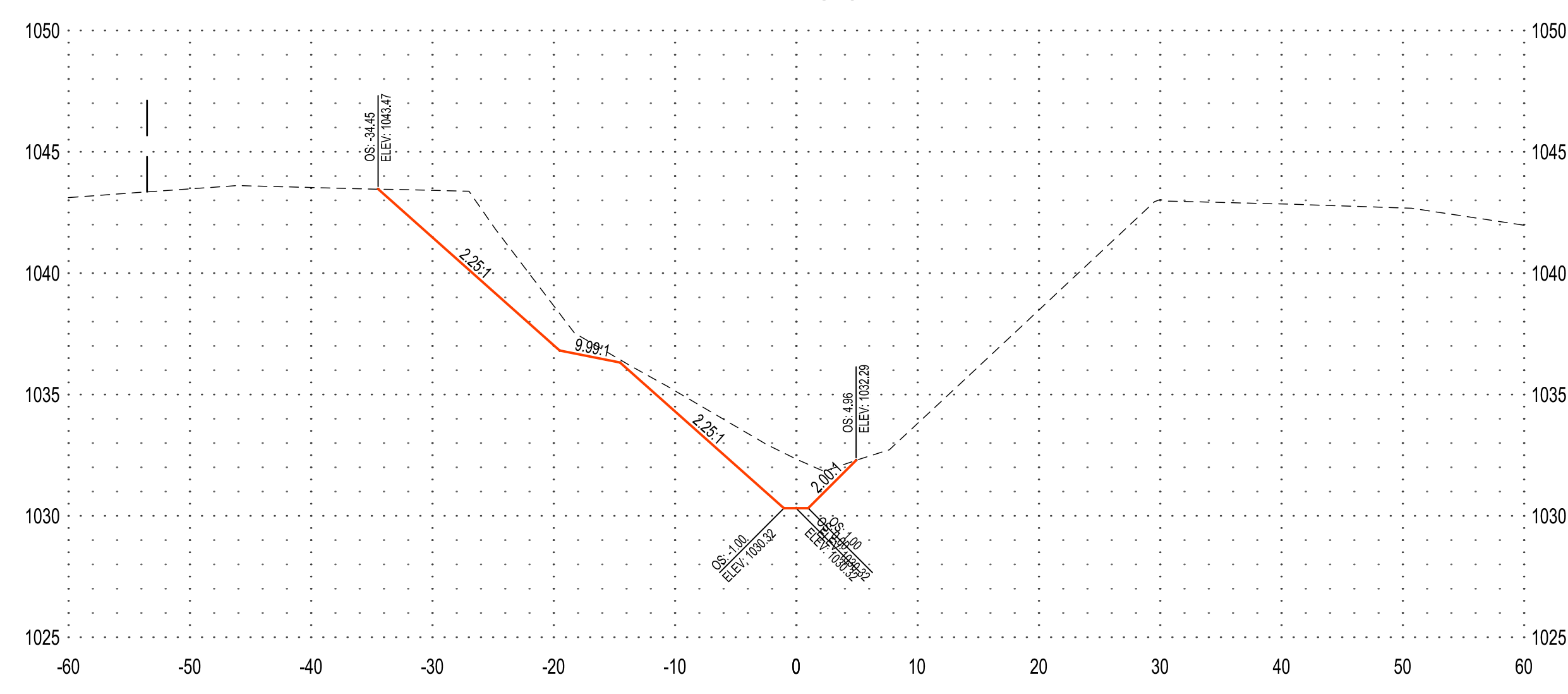
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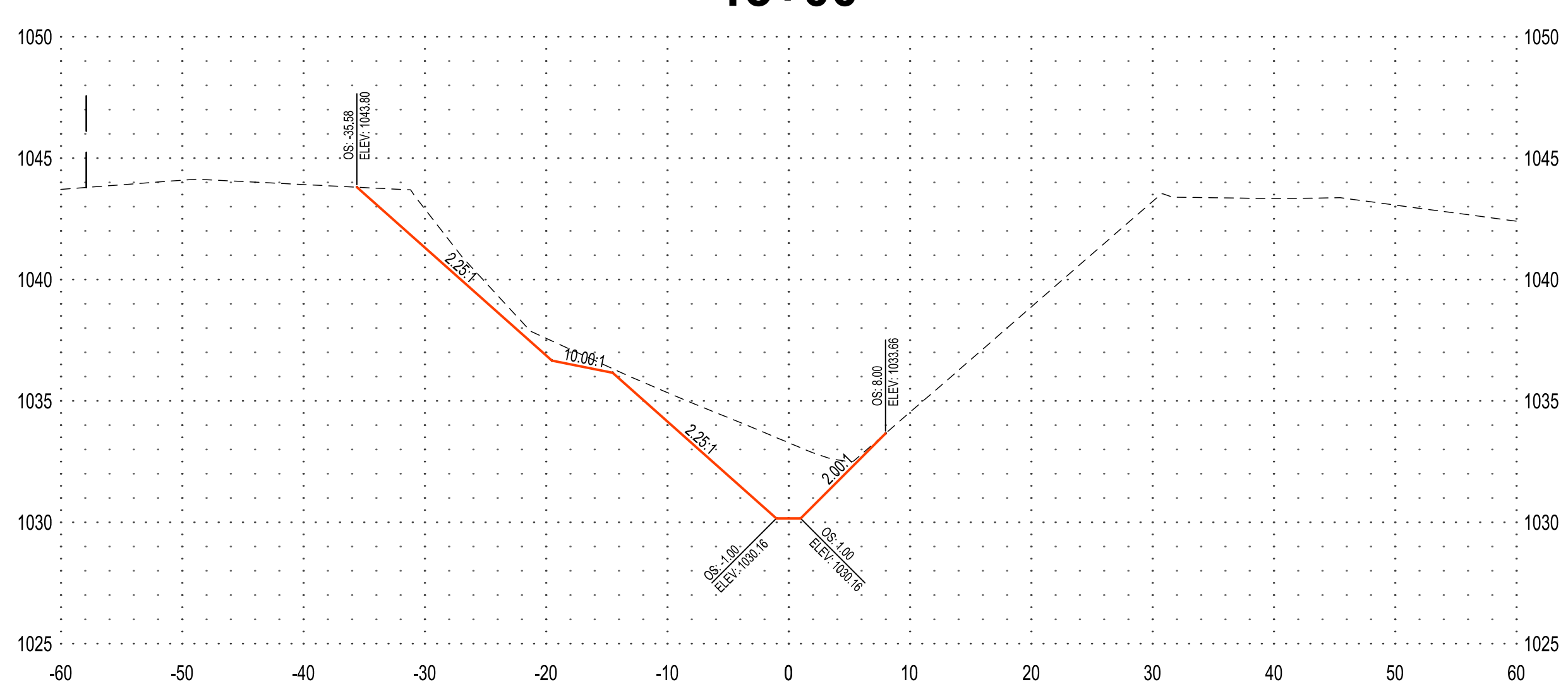
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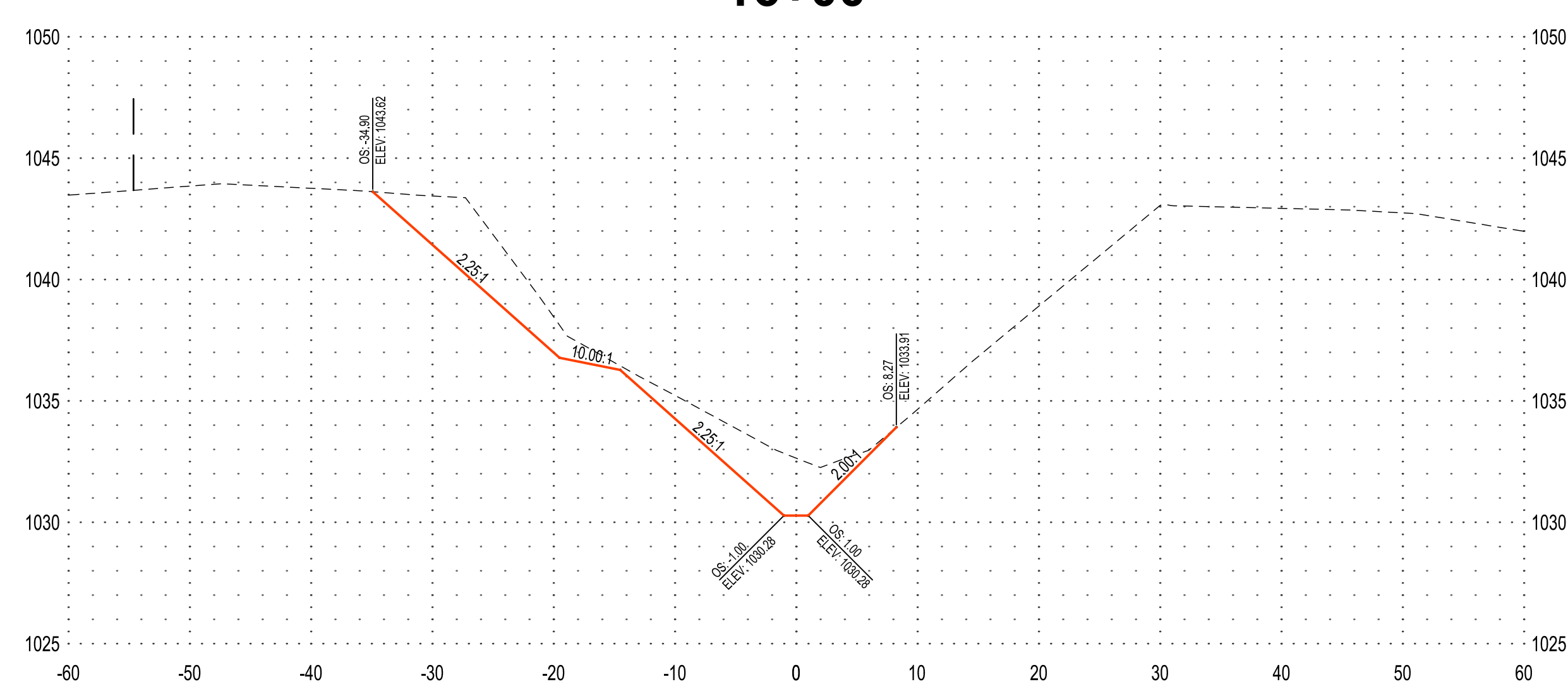
17+00



13+00



16+00





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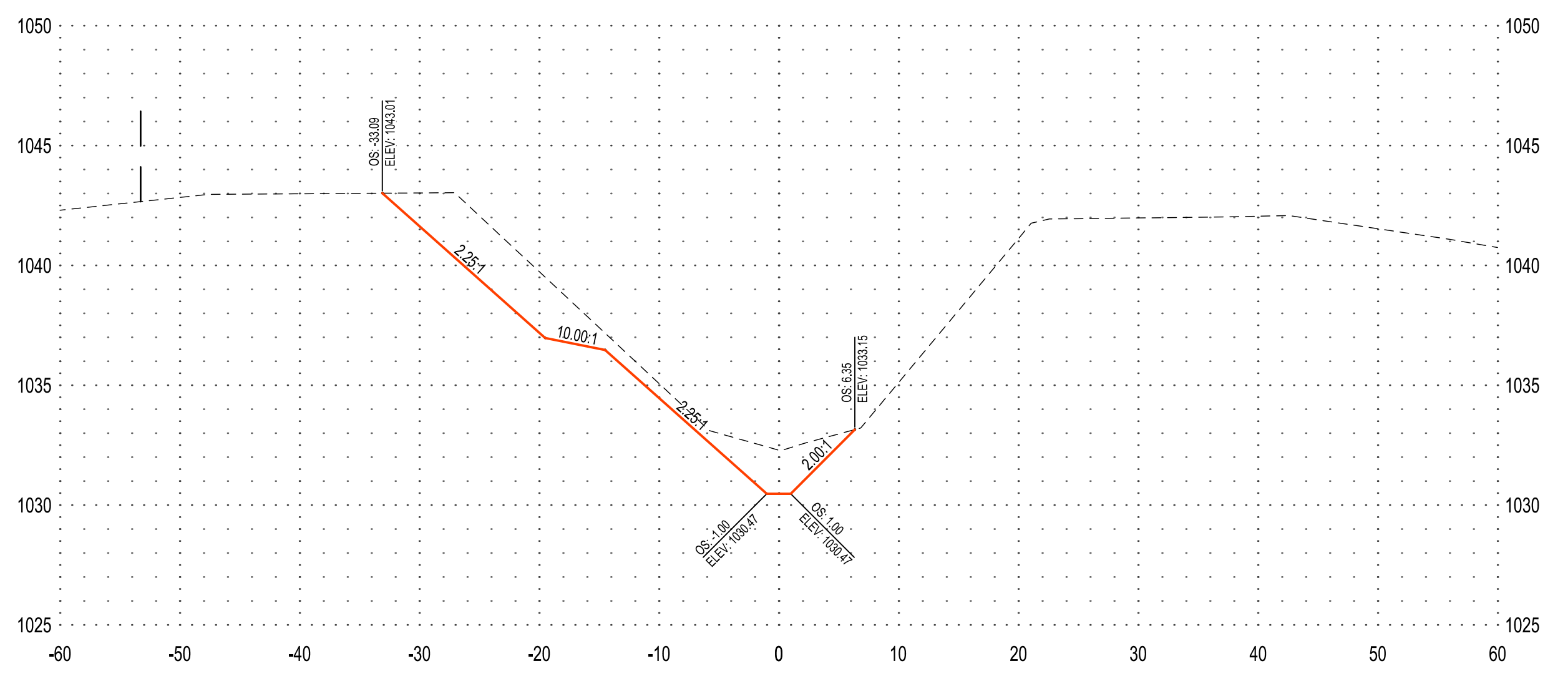
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**CROSS SECTIONS
LATERAL 1**

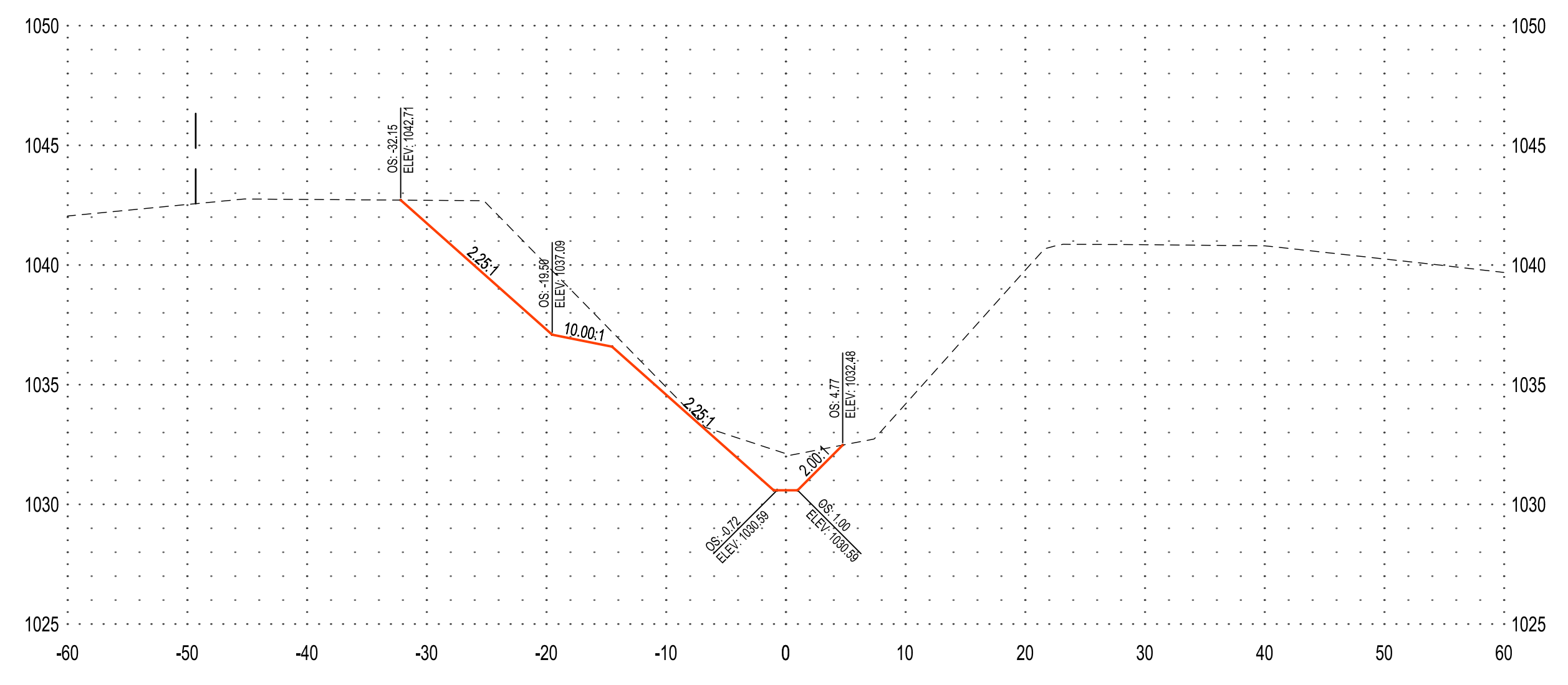
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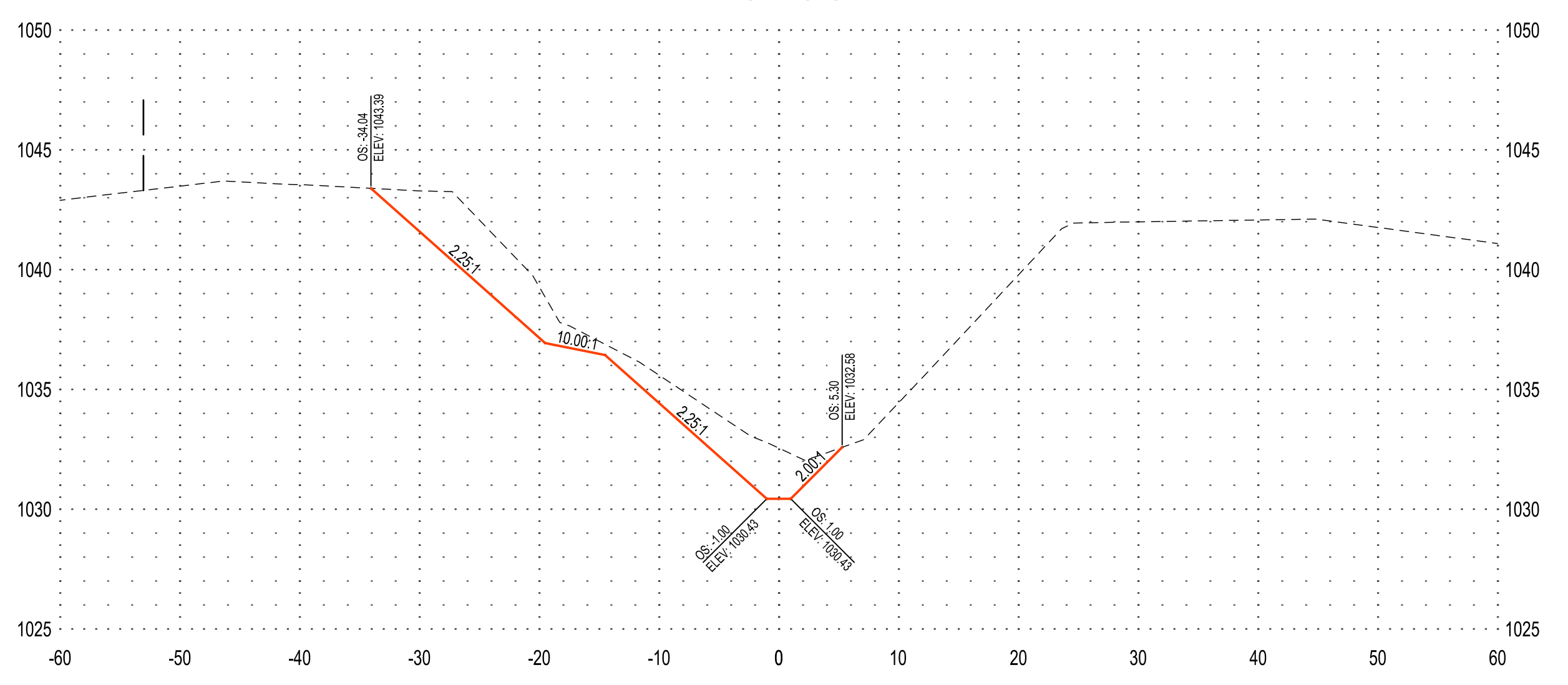
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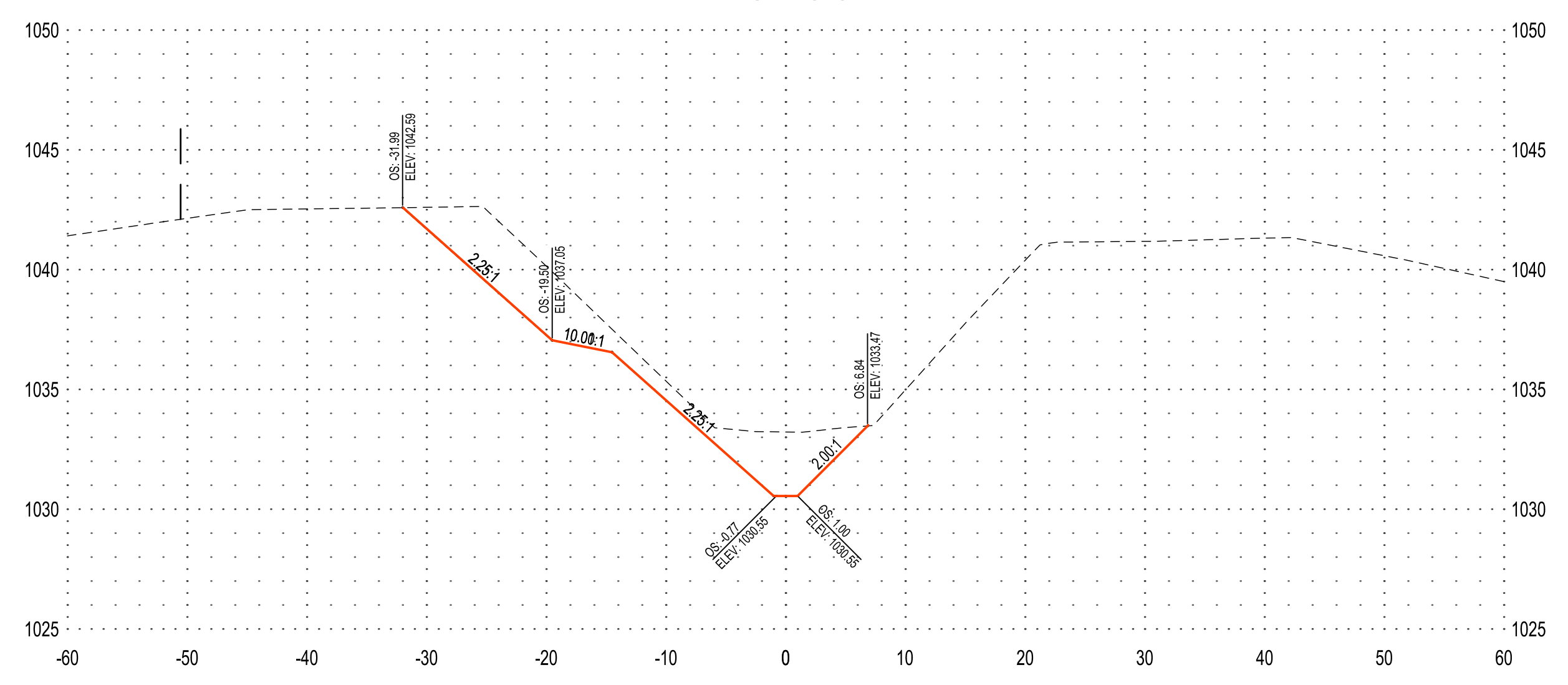
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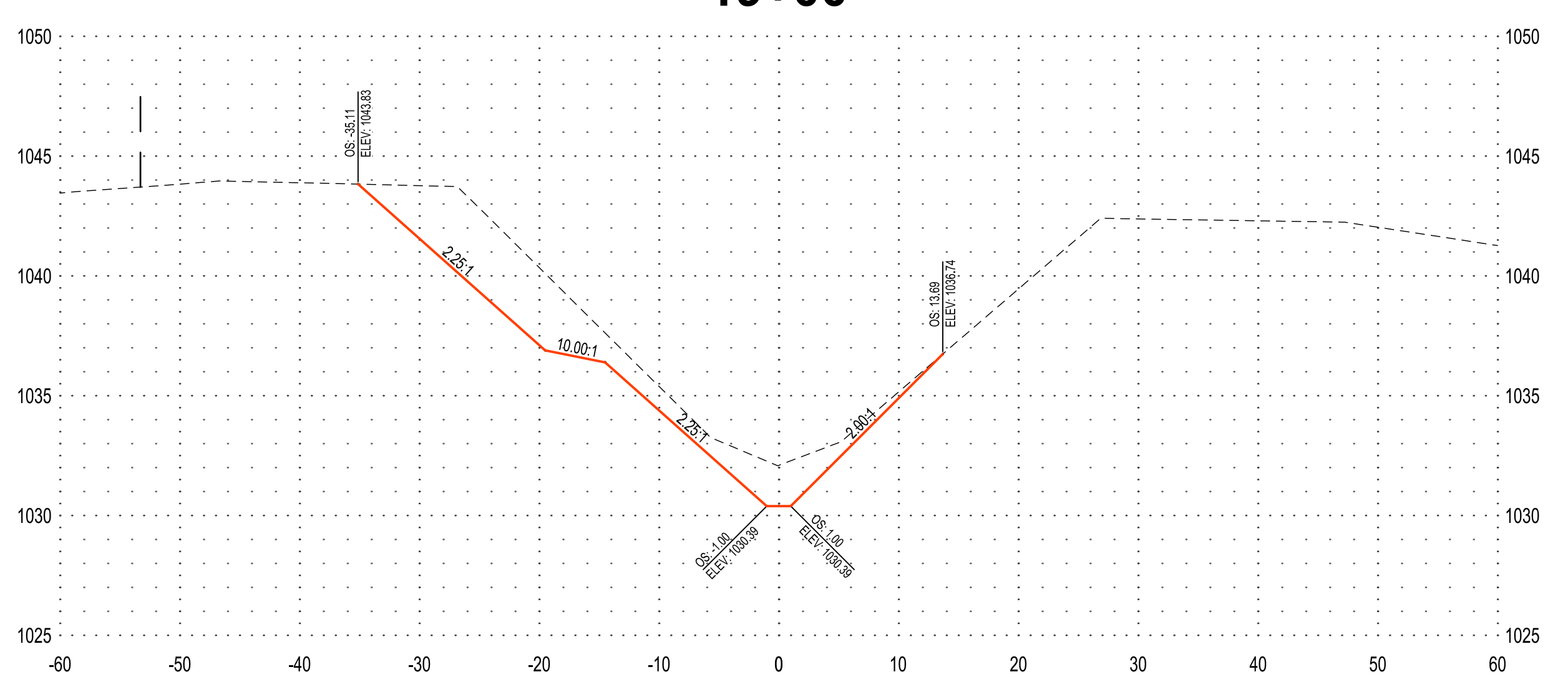
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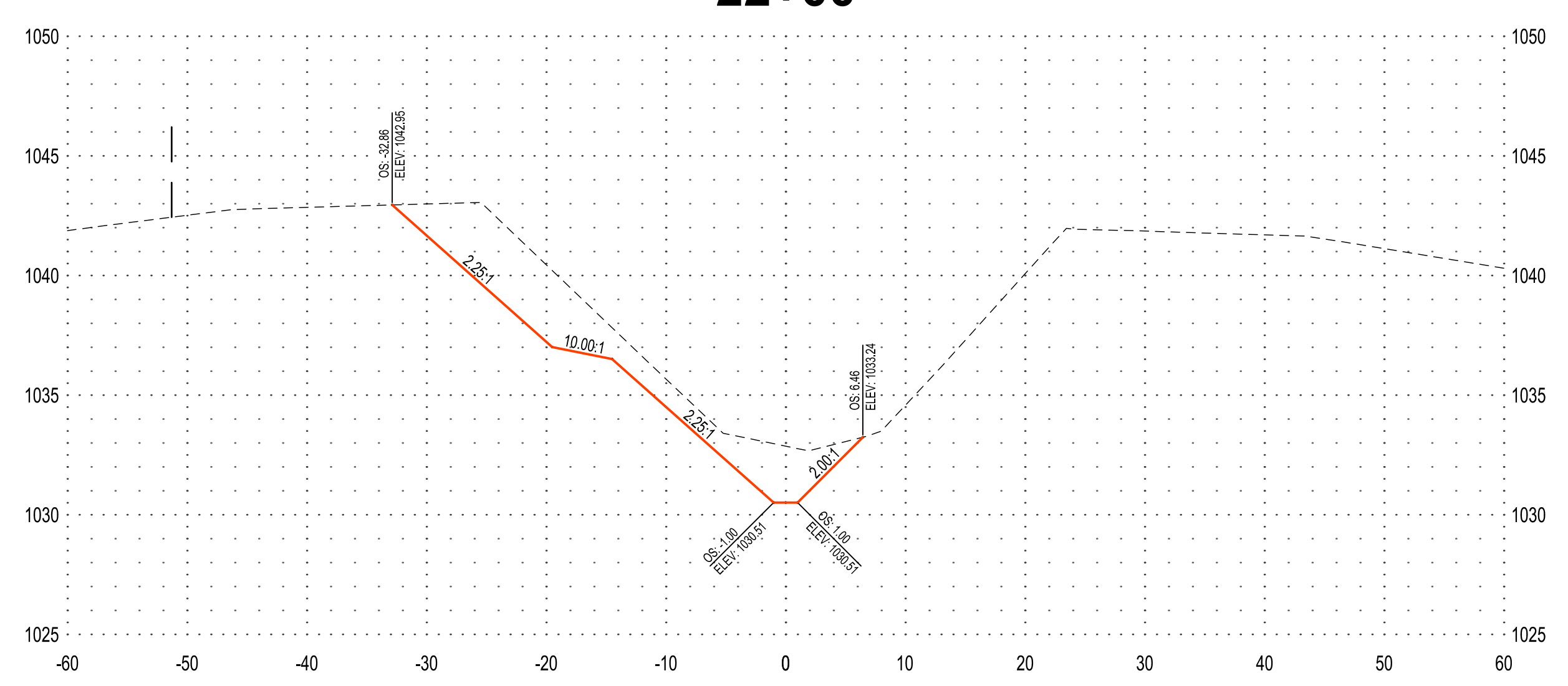
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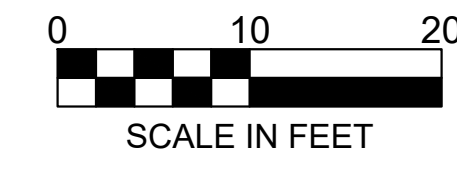


19+00



22+00





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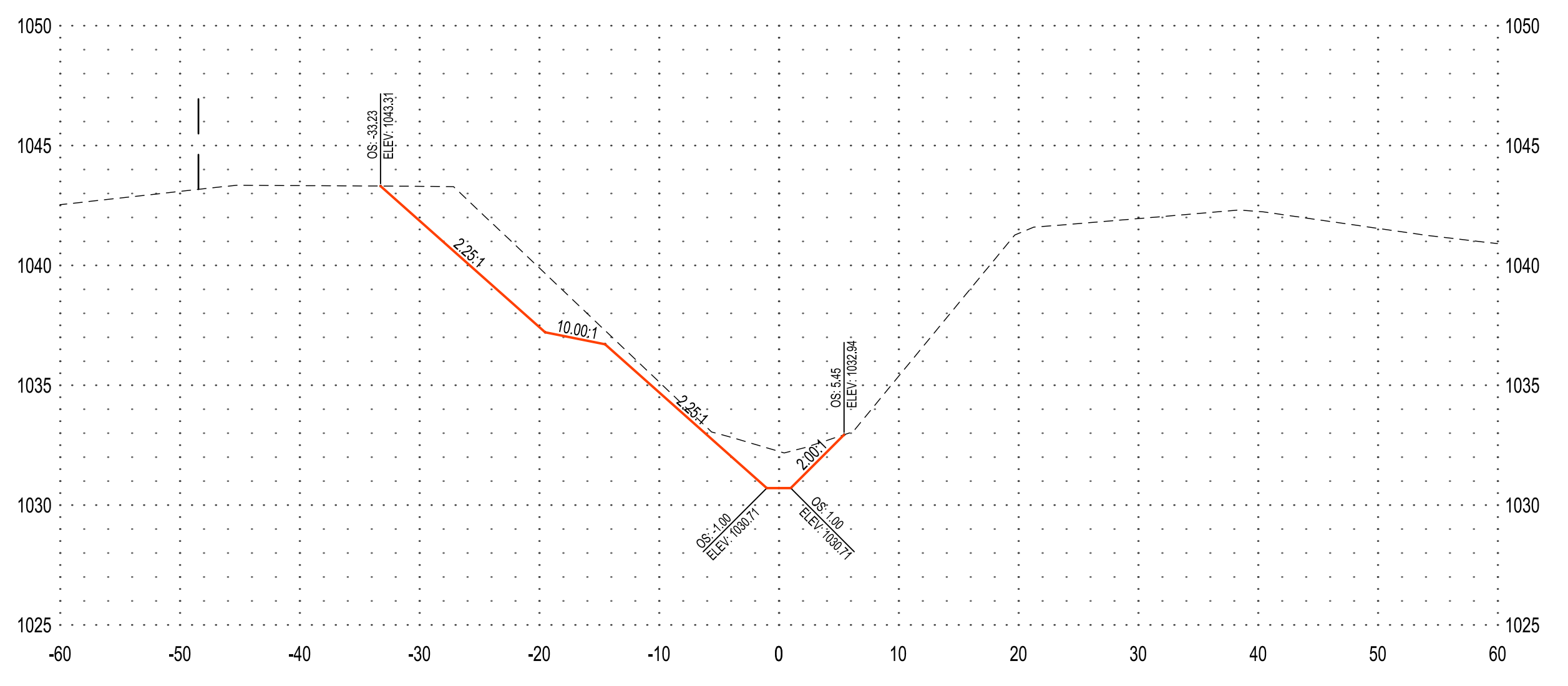
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LATERAL 1**

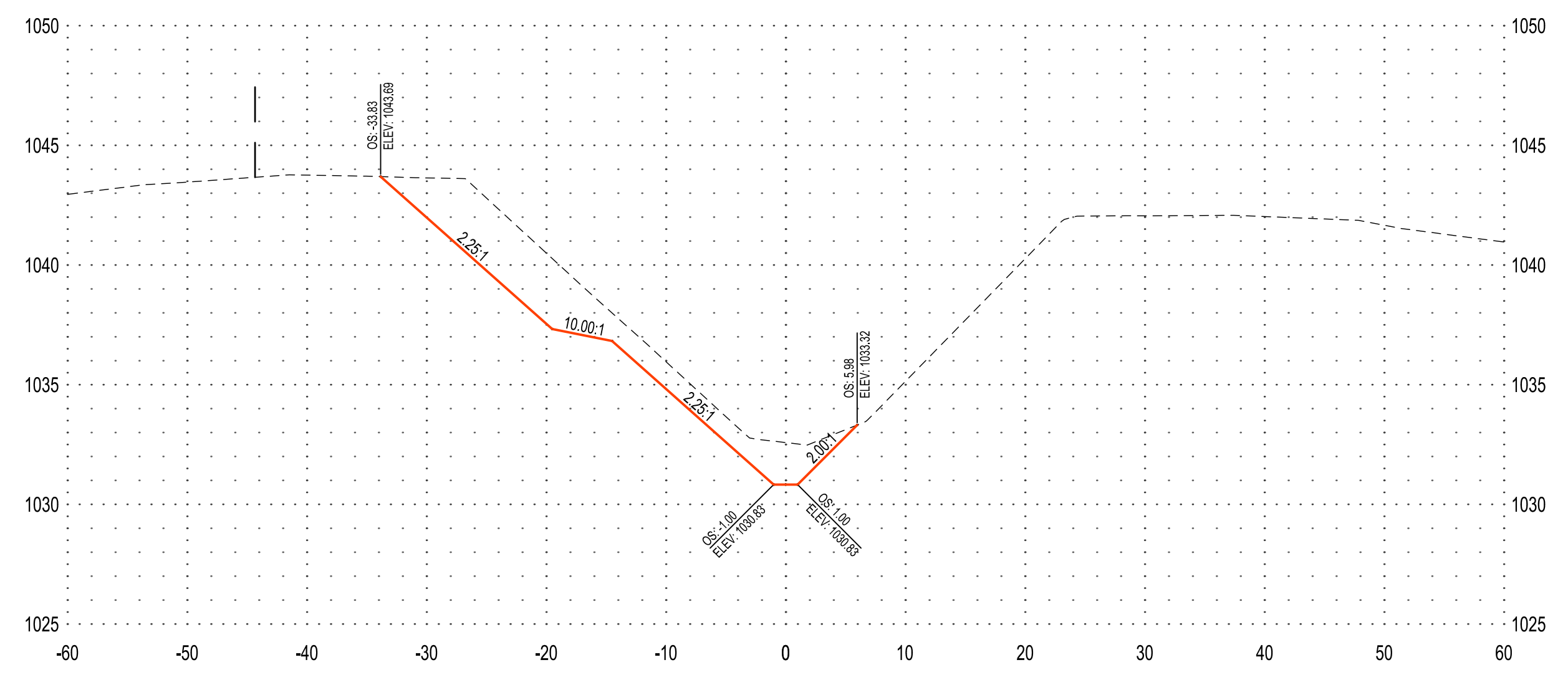
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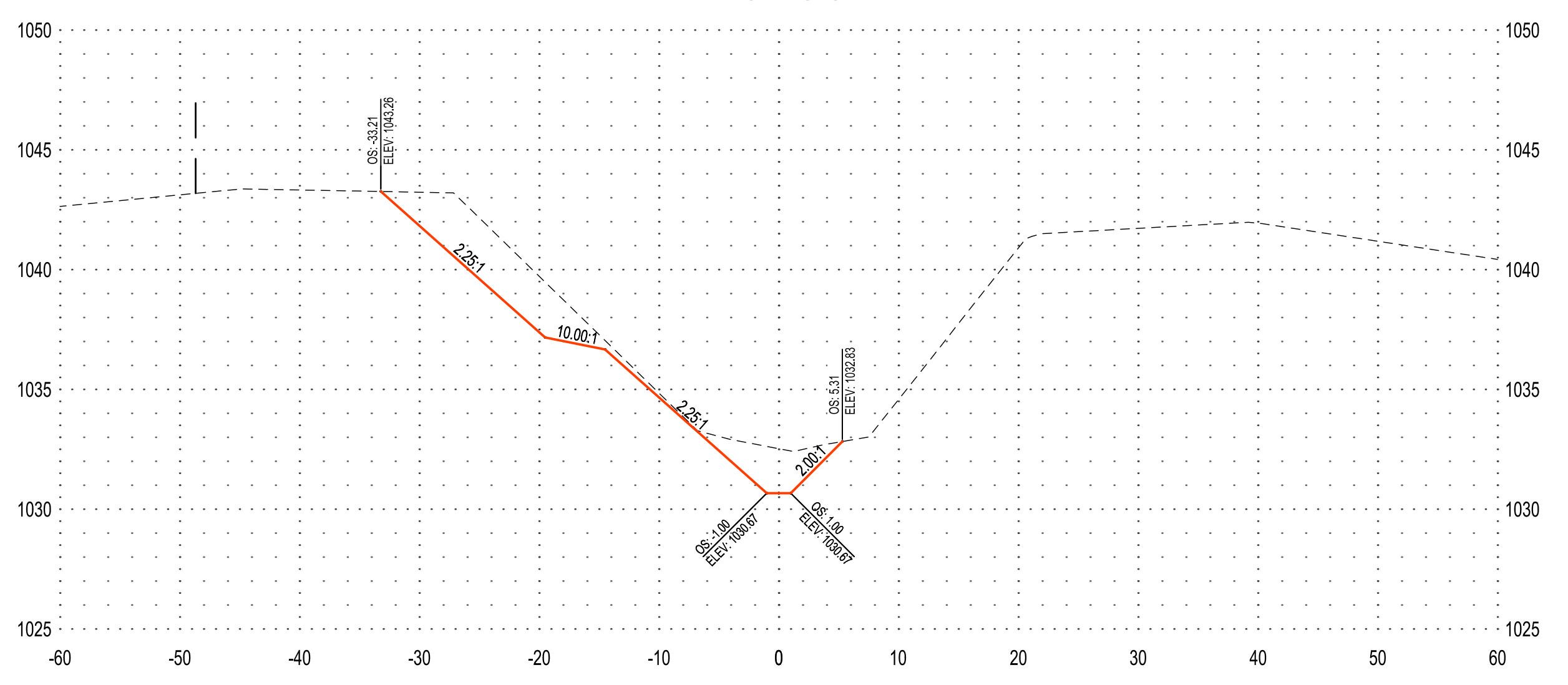
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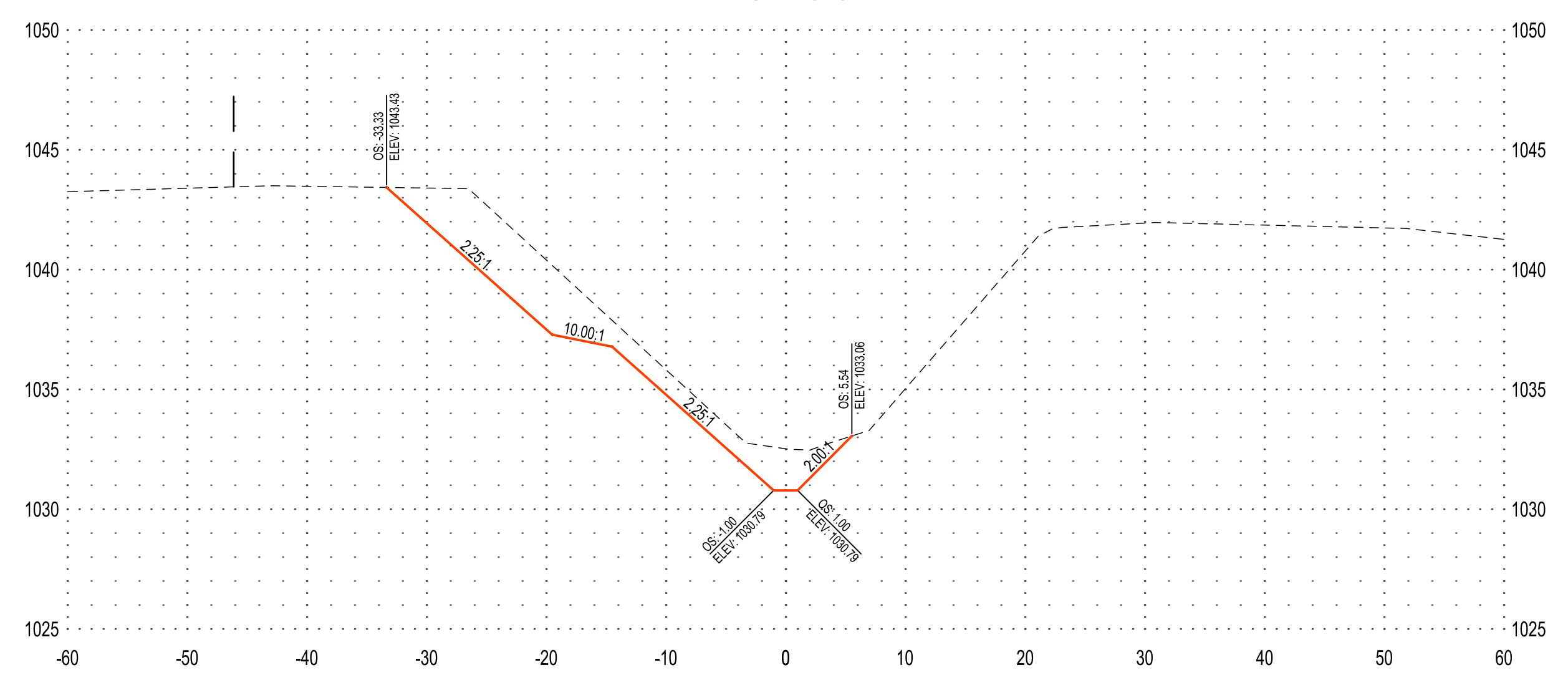
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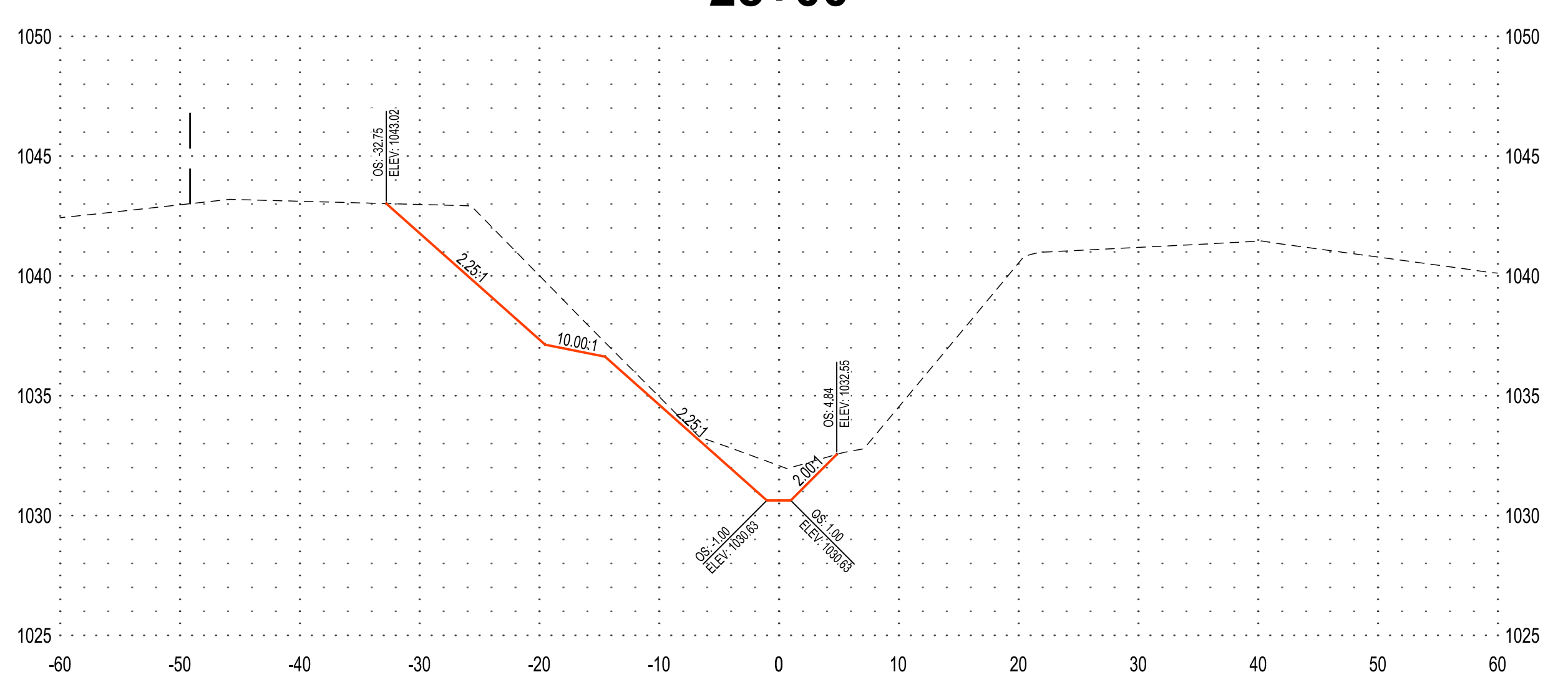
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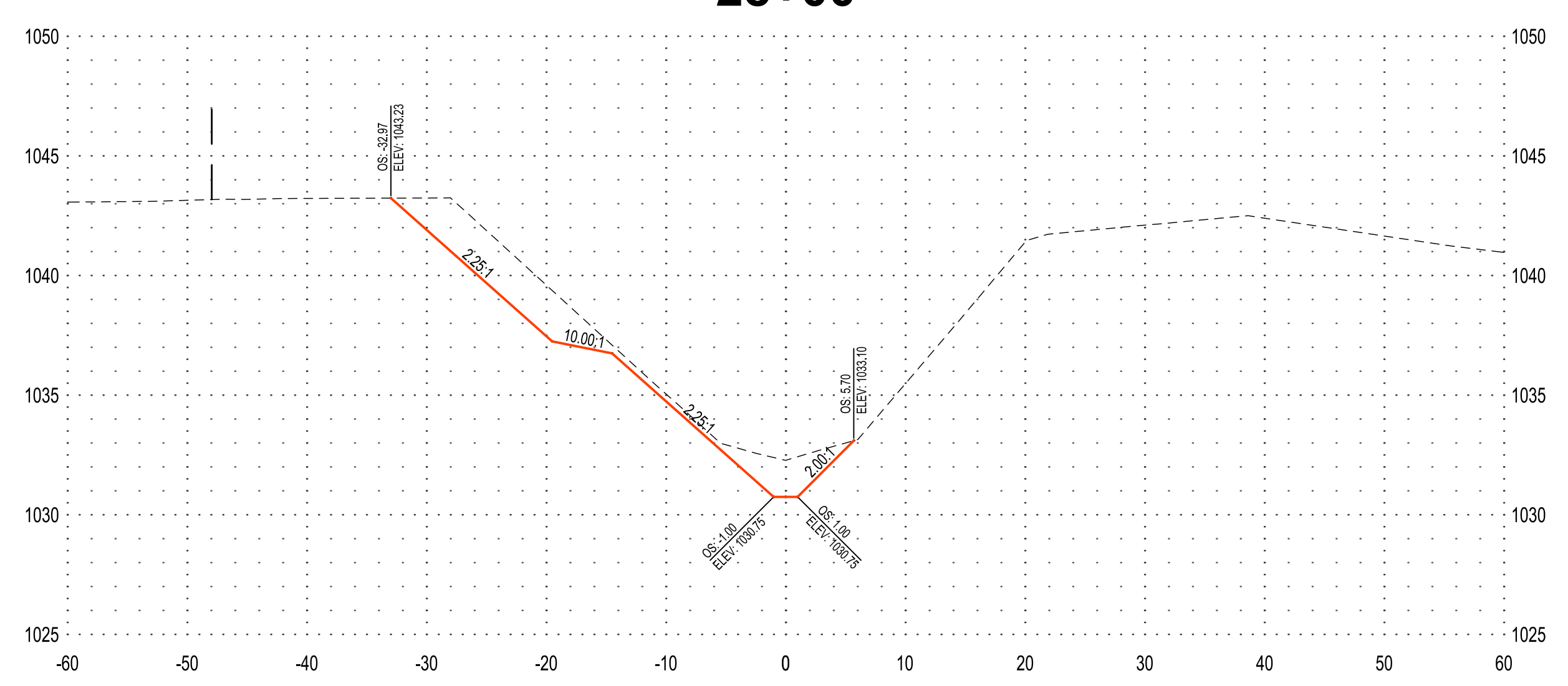
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25+00



28+00





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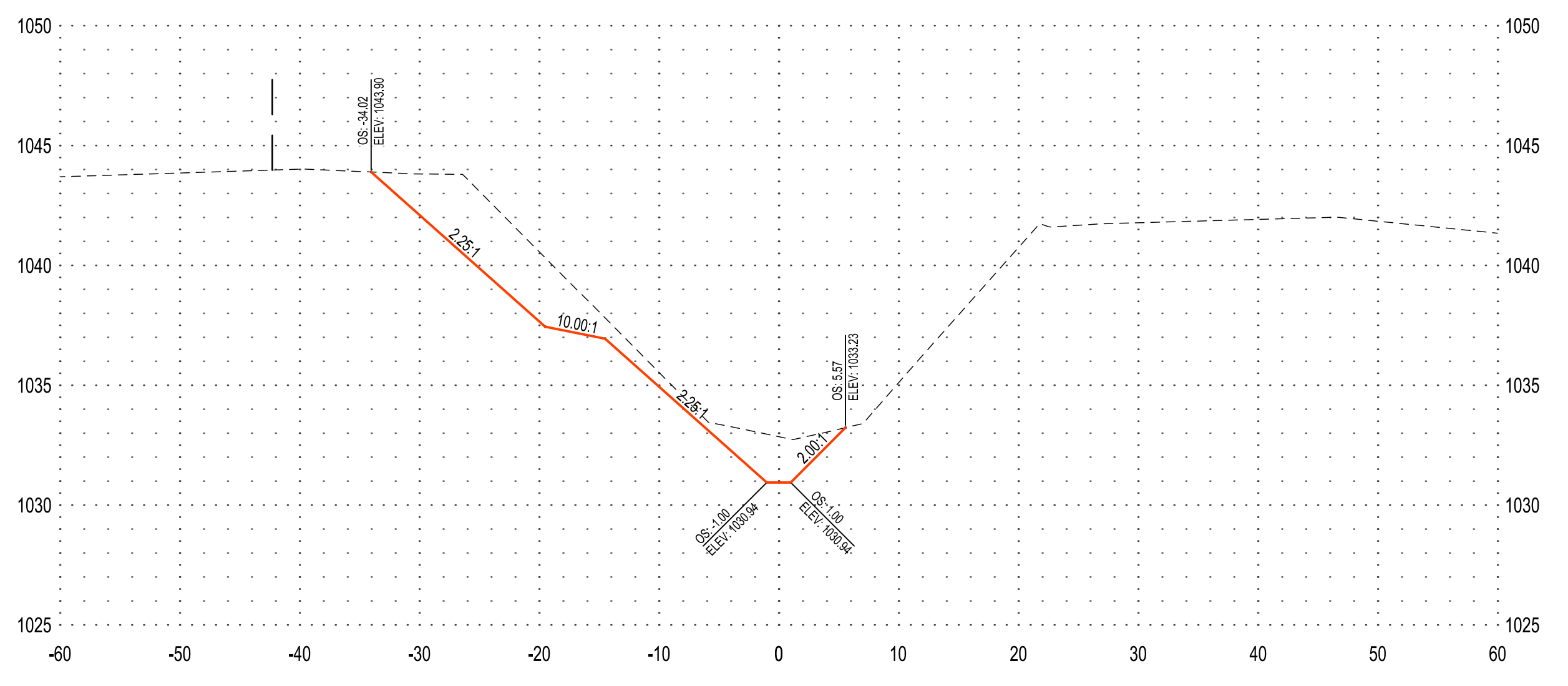
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**CROSS SECTIONS
LATERAL 1**

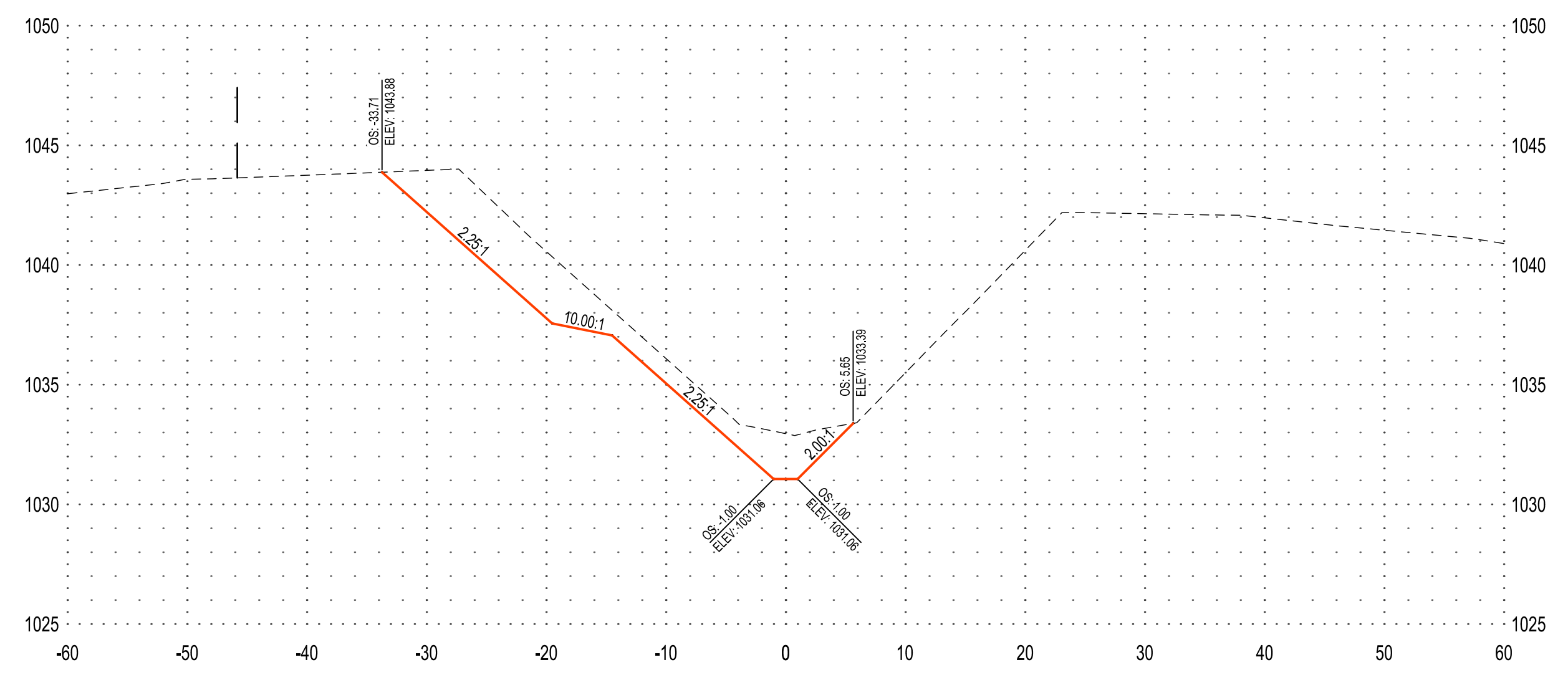
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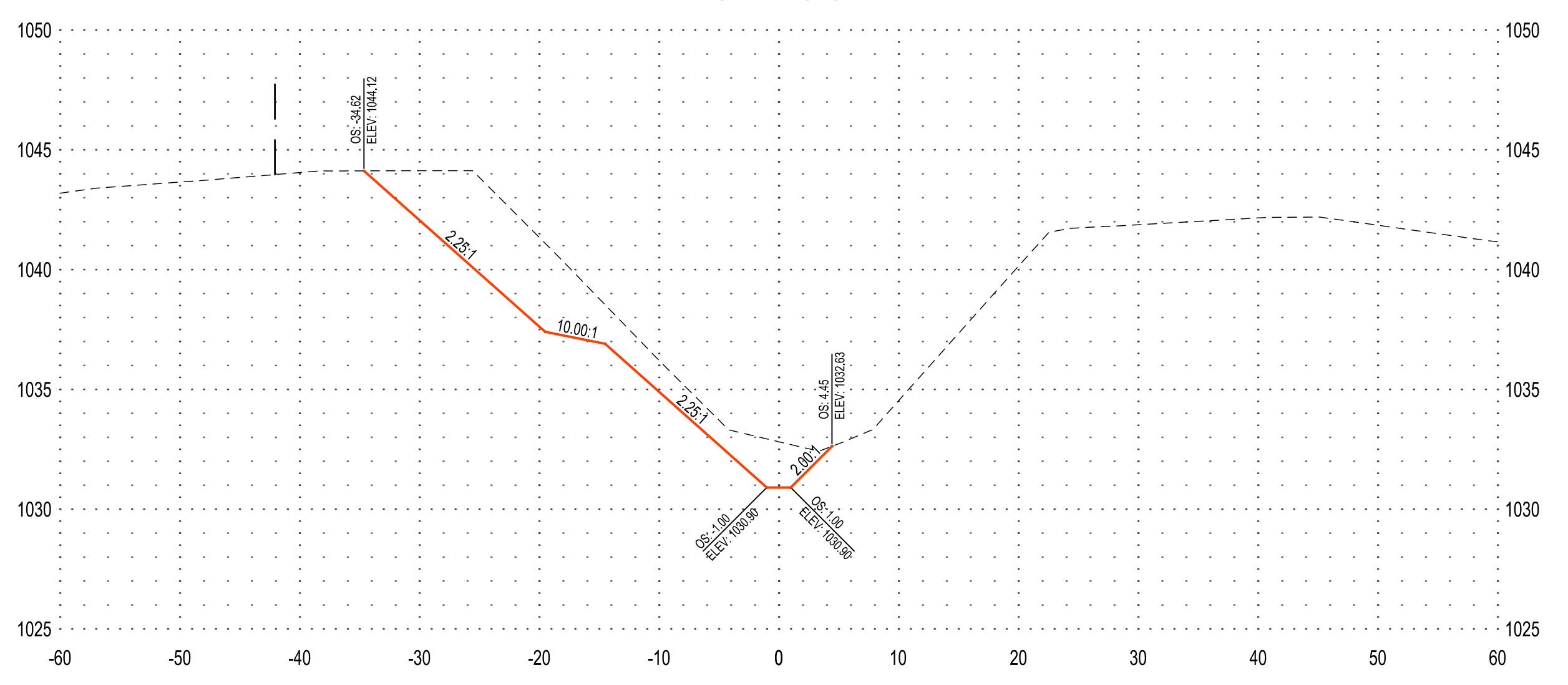
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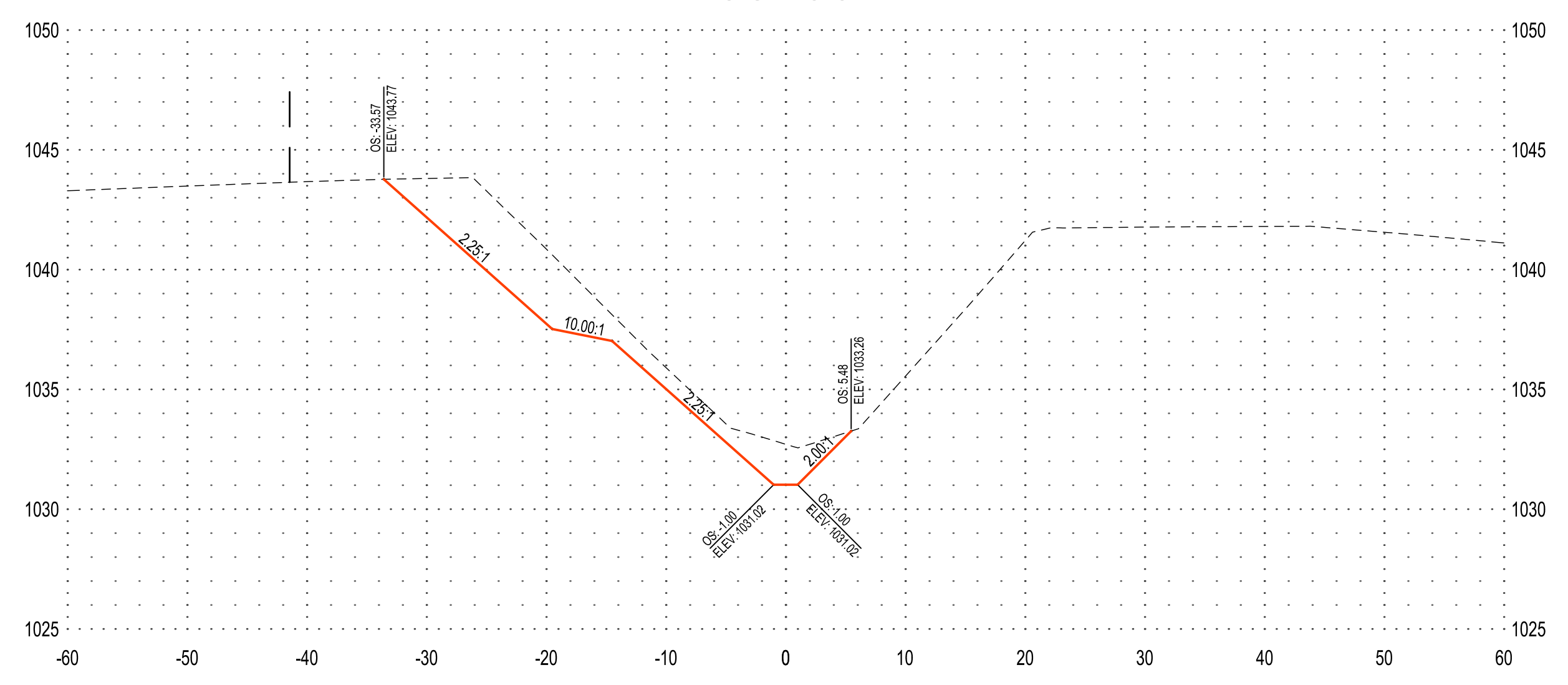
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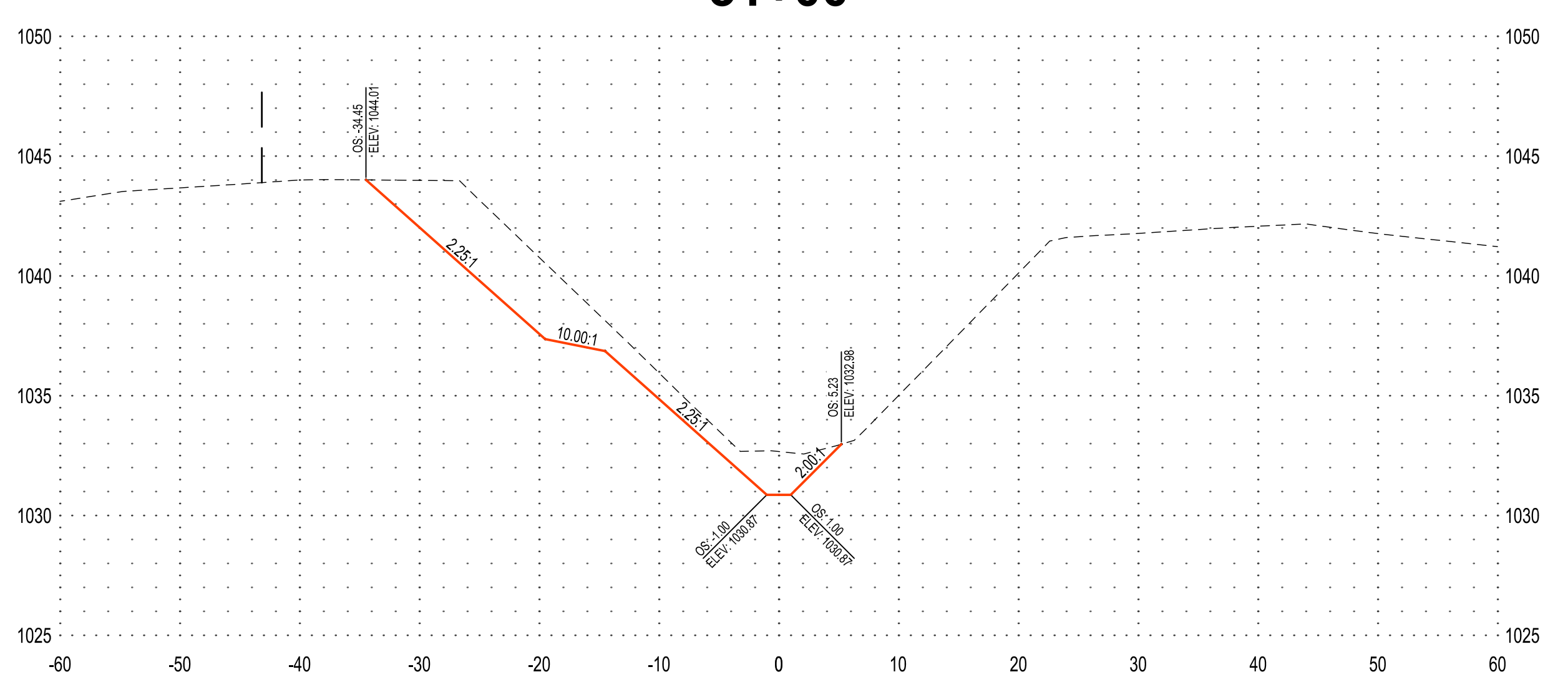
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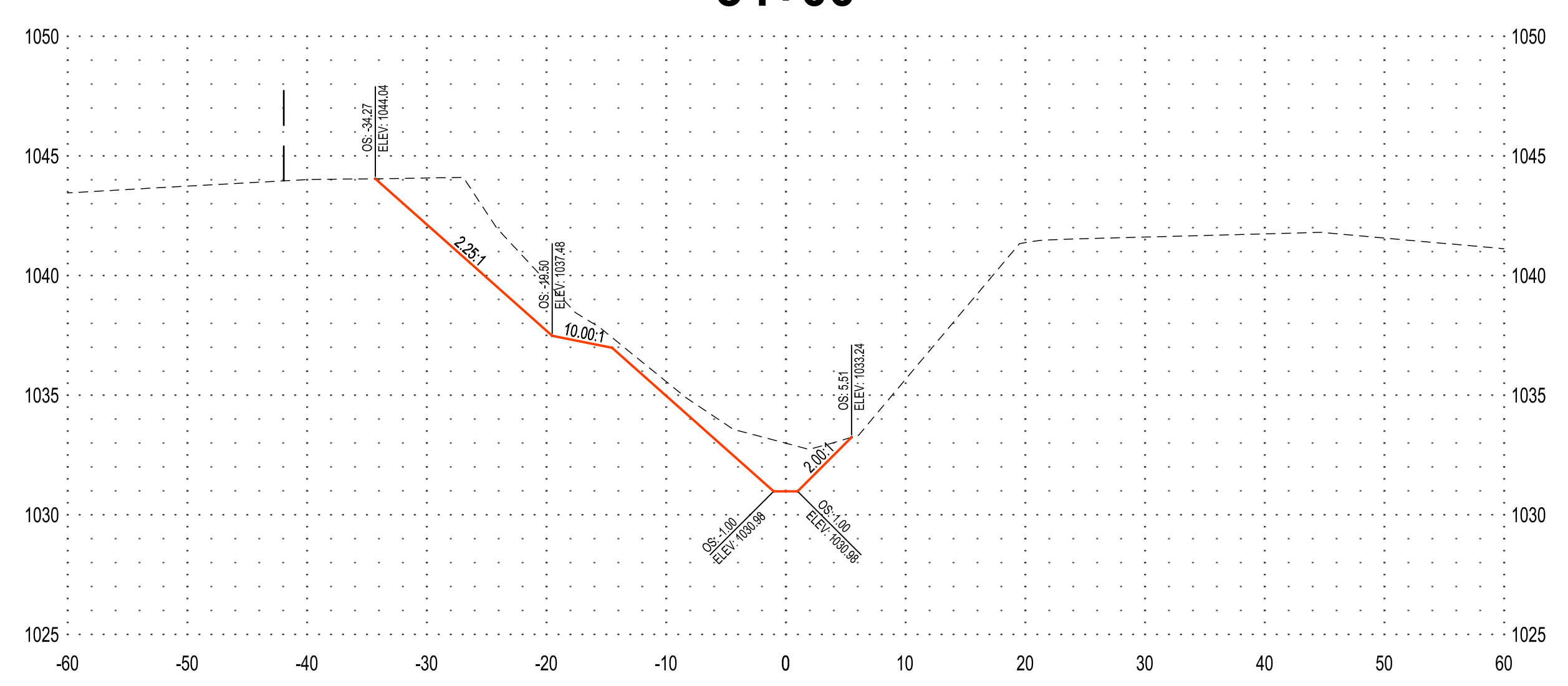
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31+00



34+00





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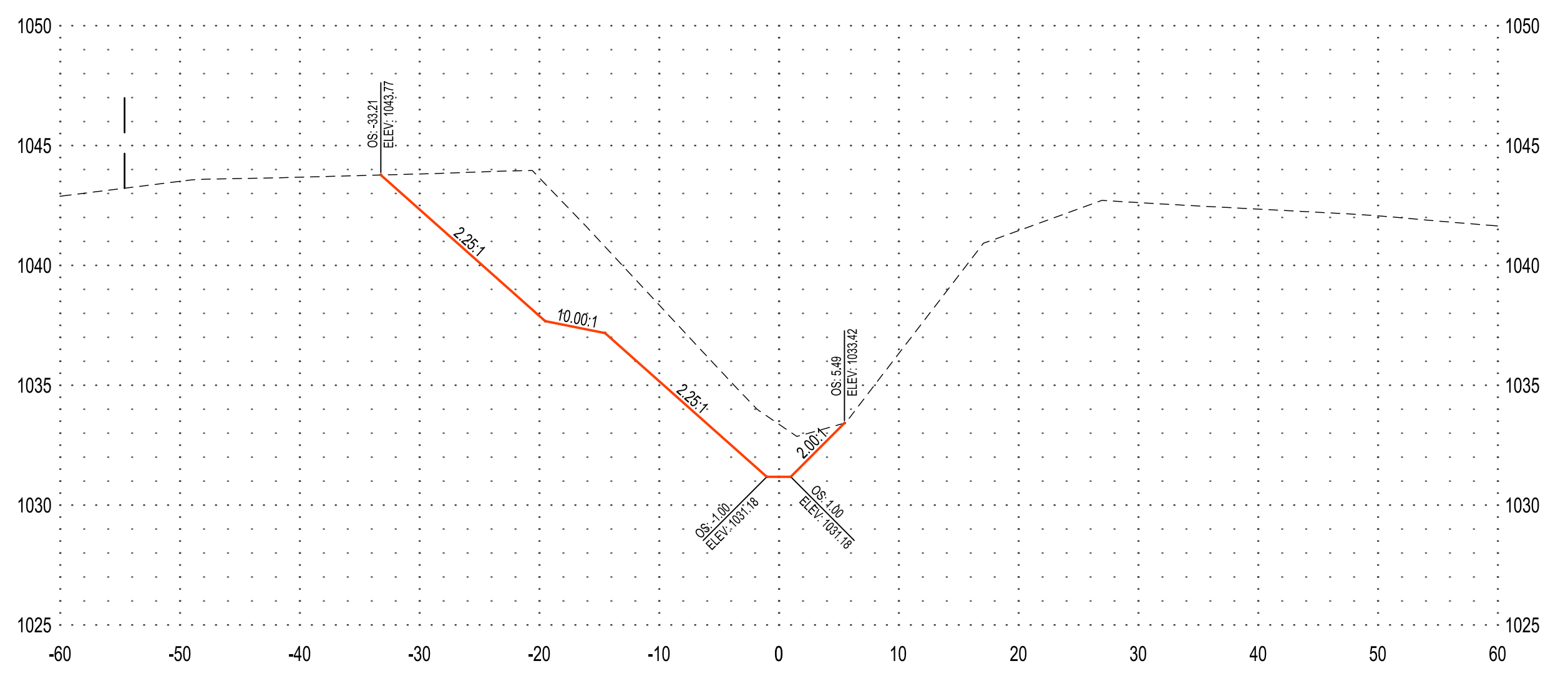
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**CROSS SECTIONS
LATERAL 1**

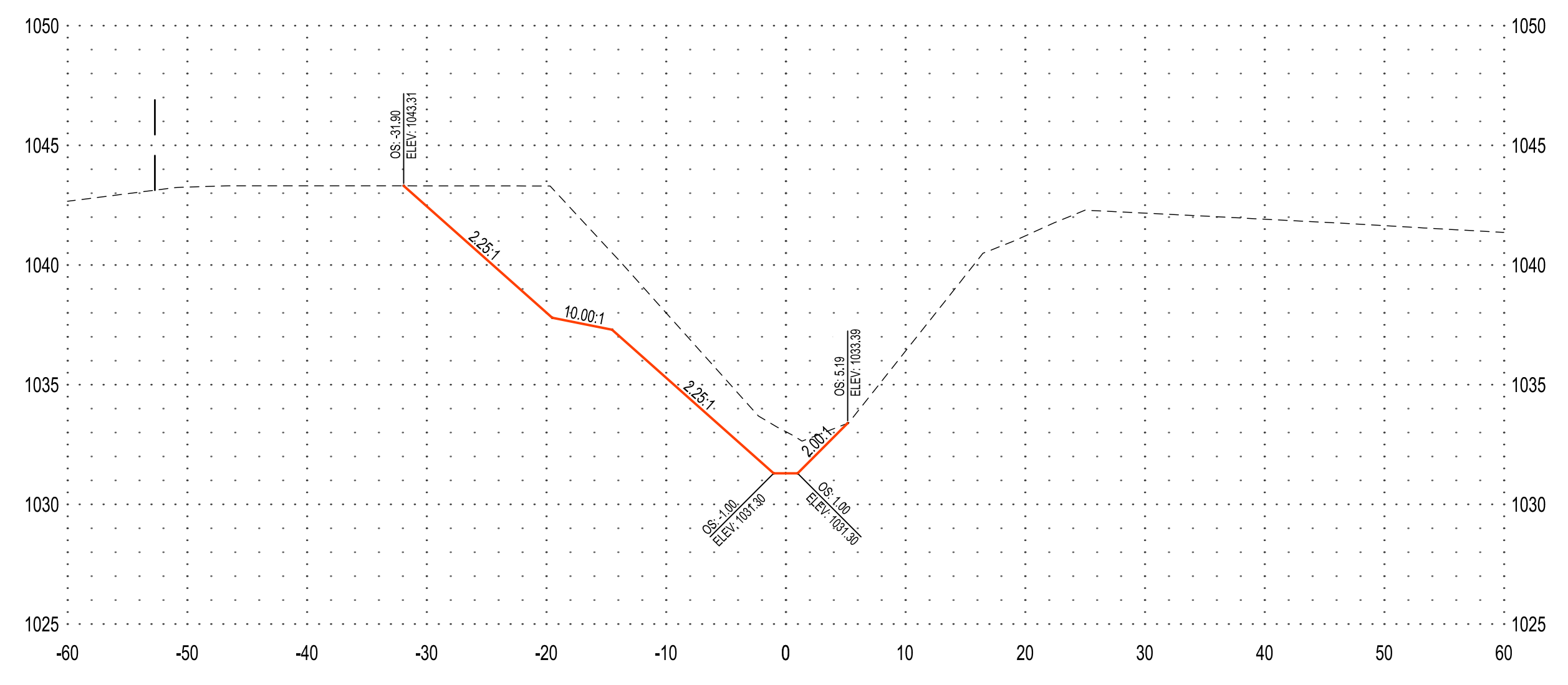
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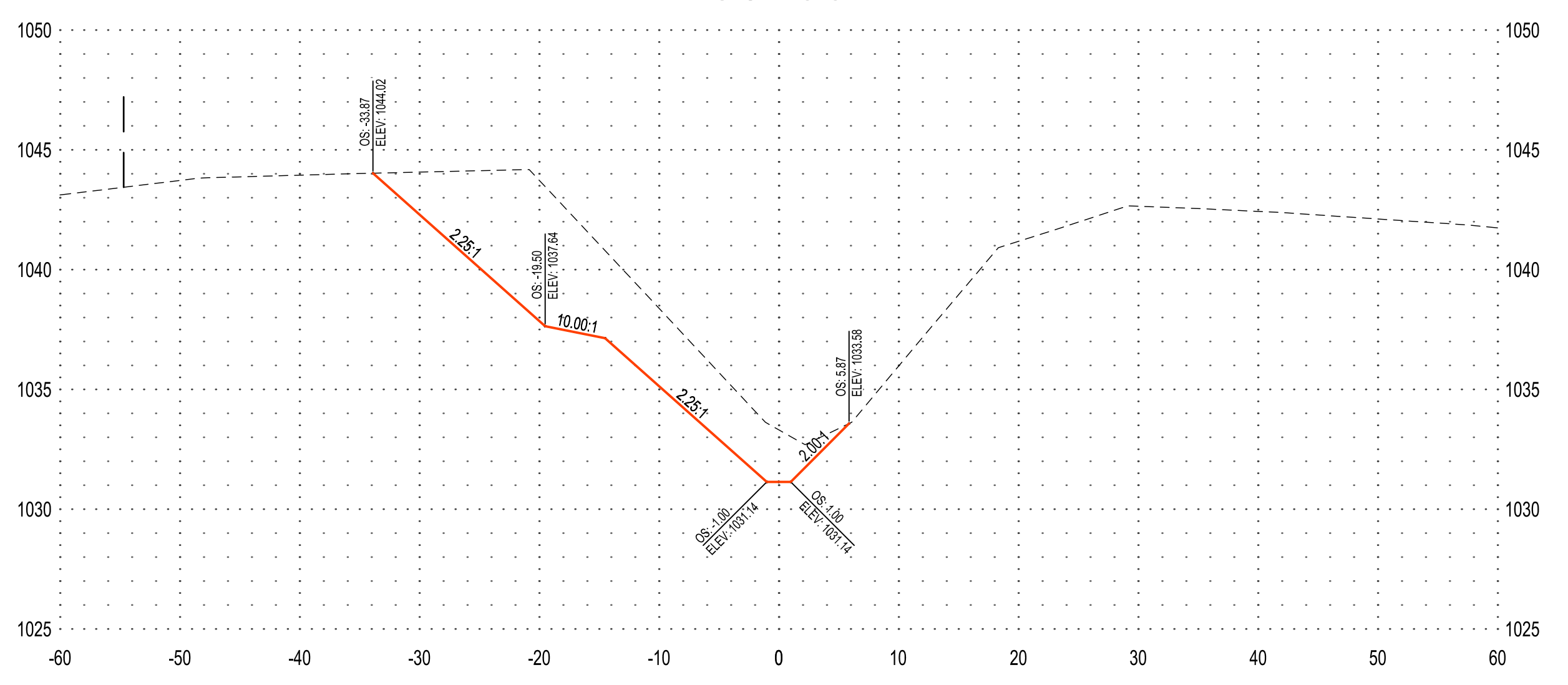
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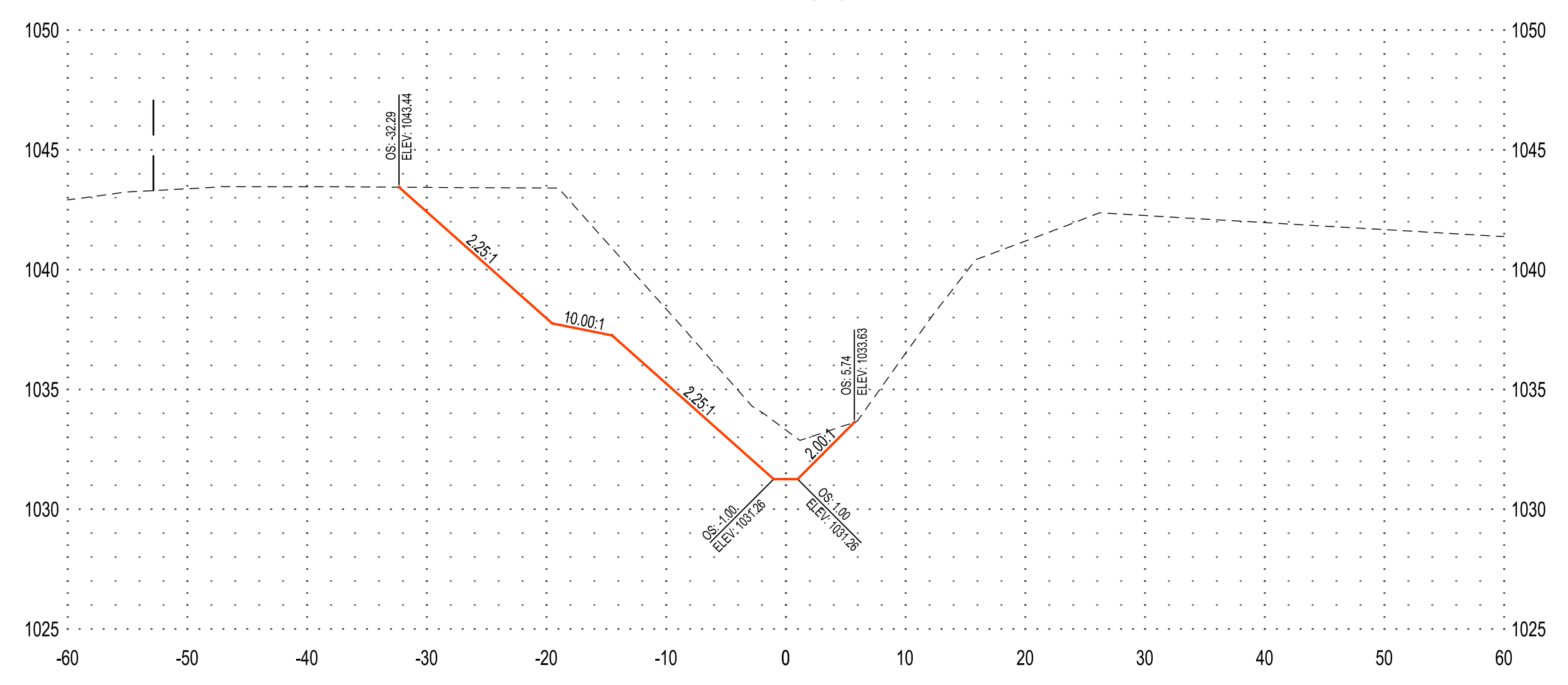
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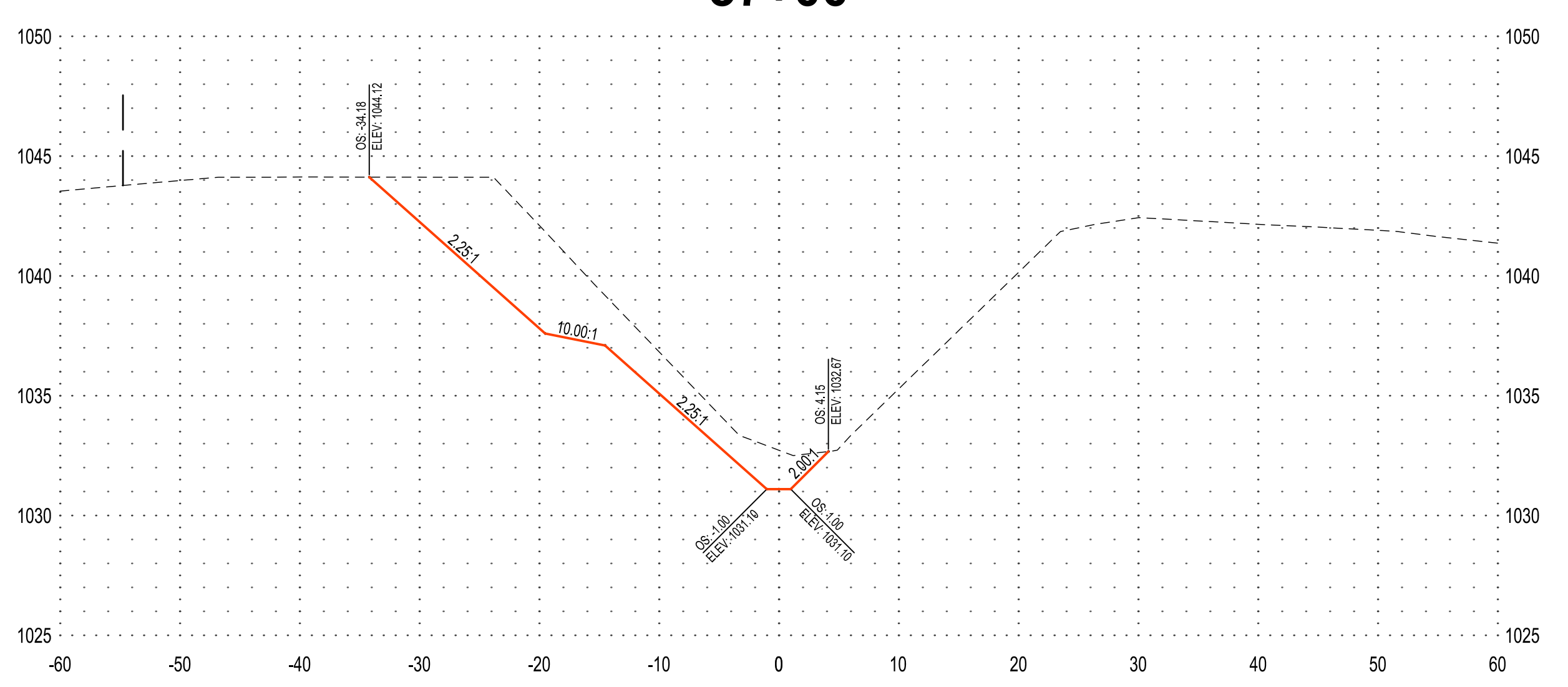
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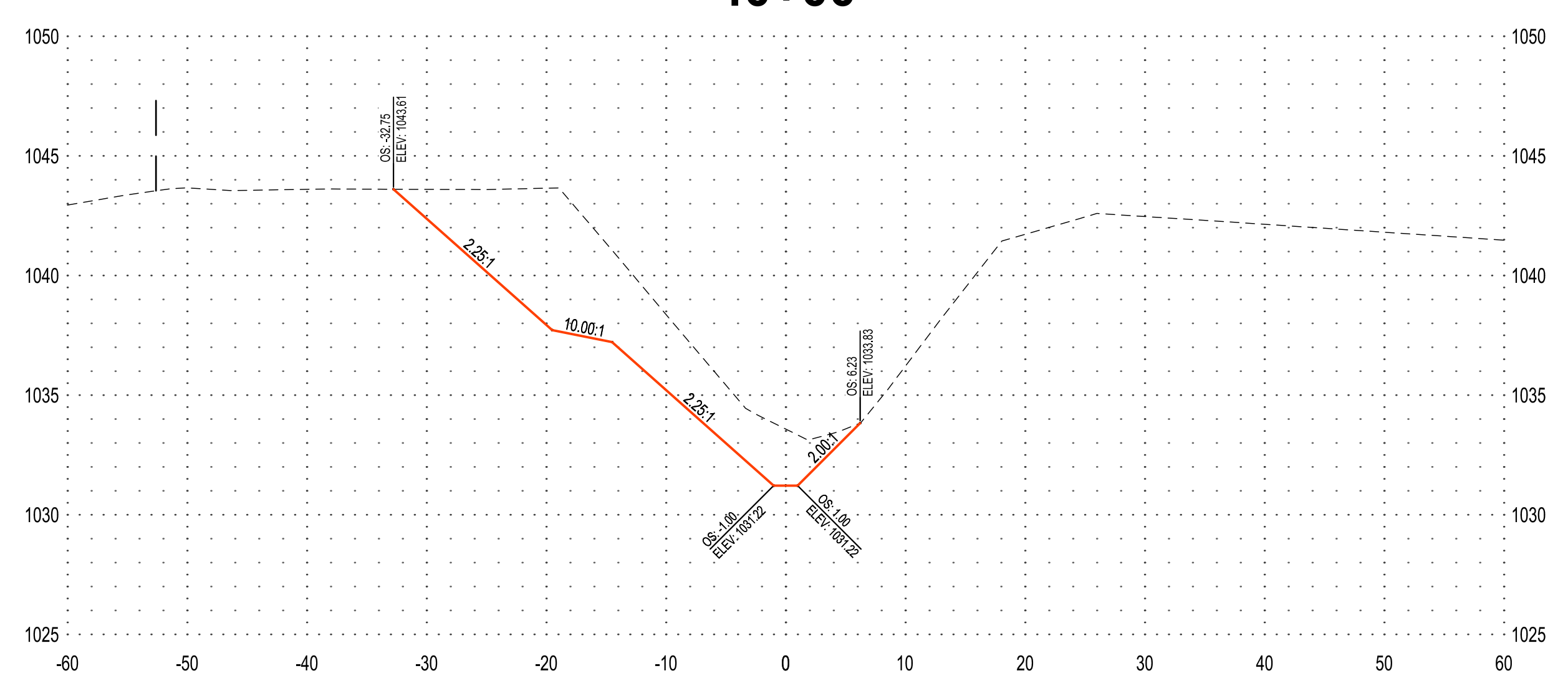
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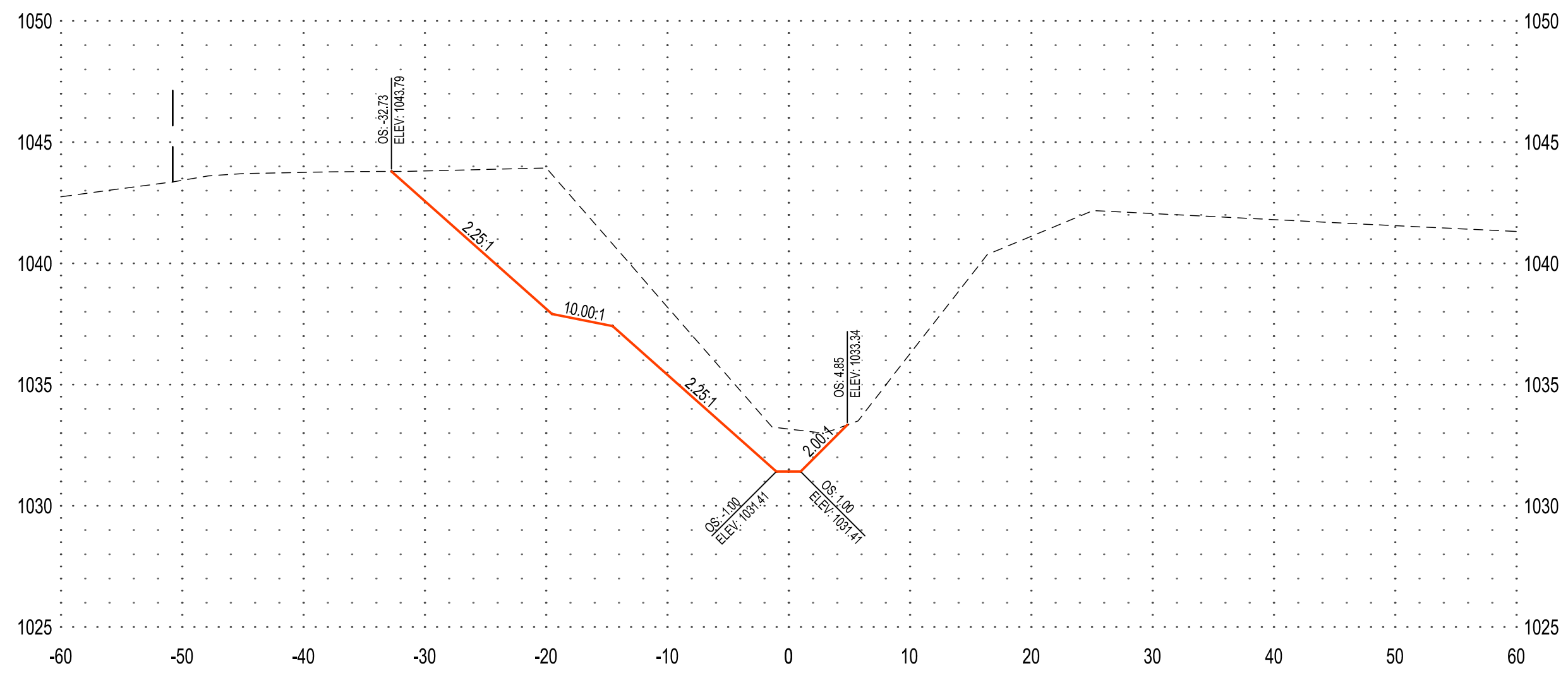


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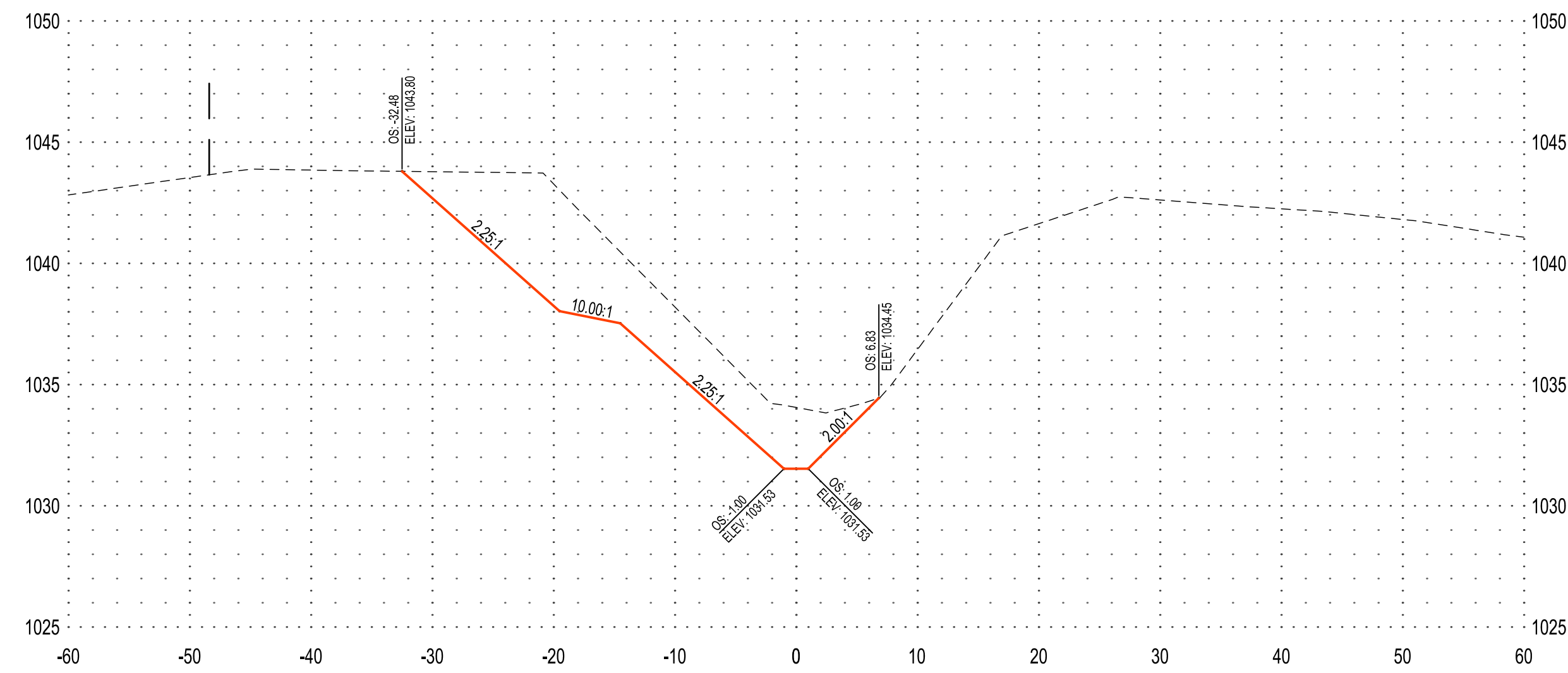




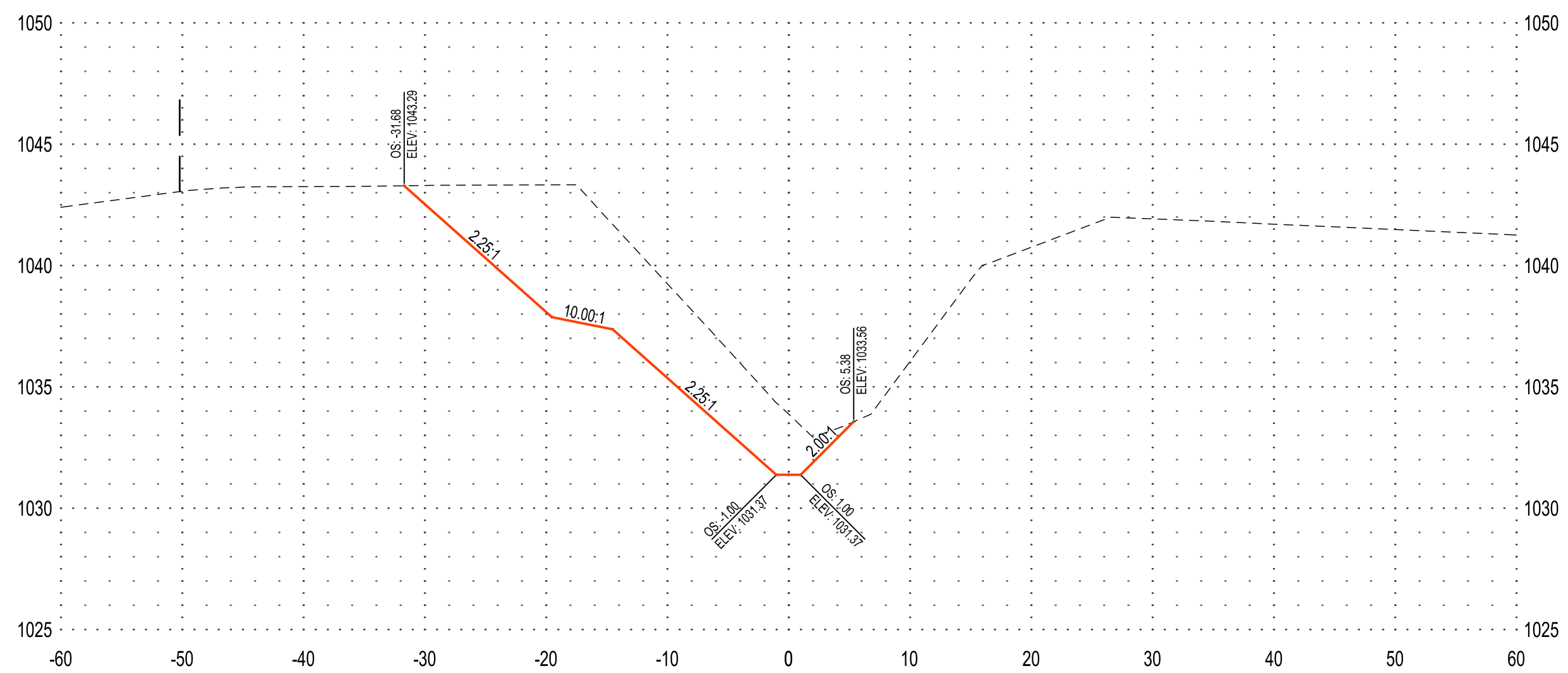
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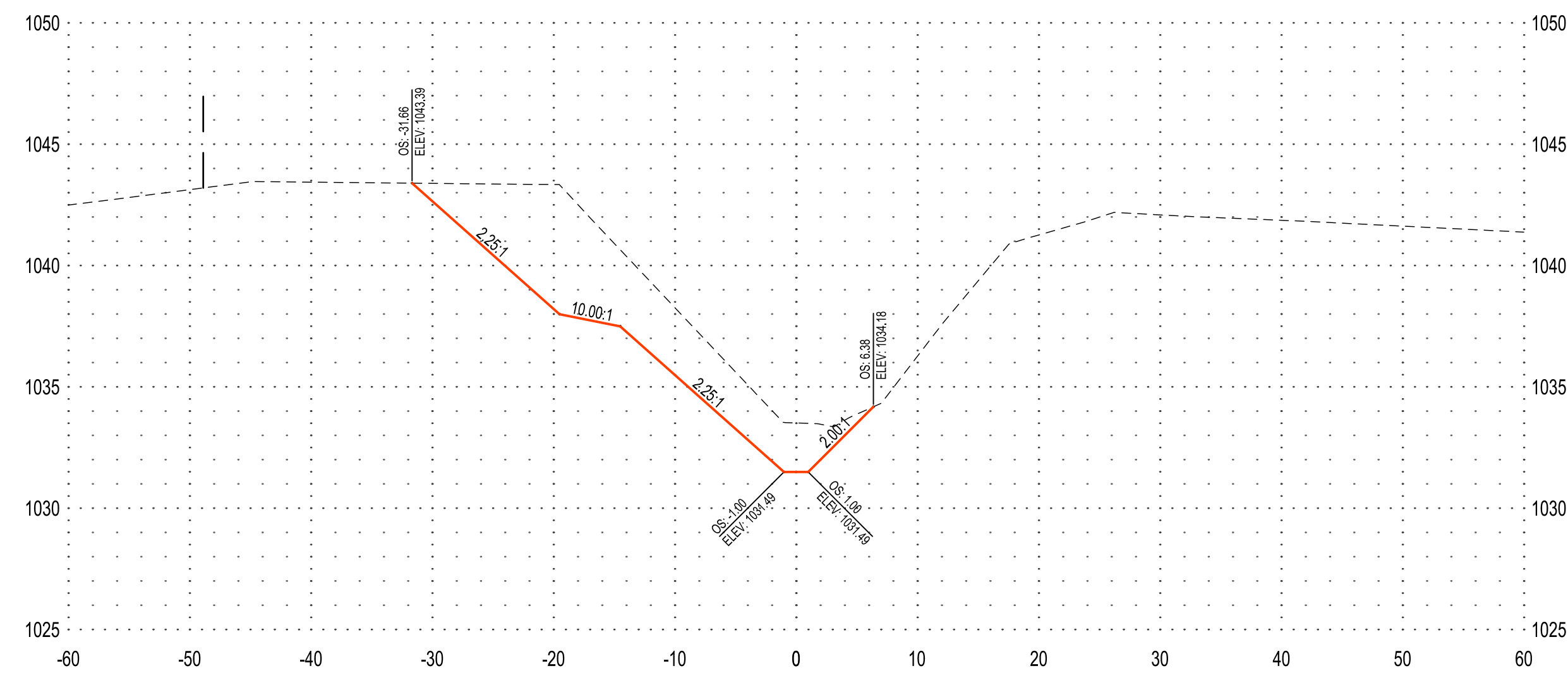
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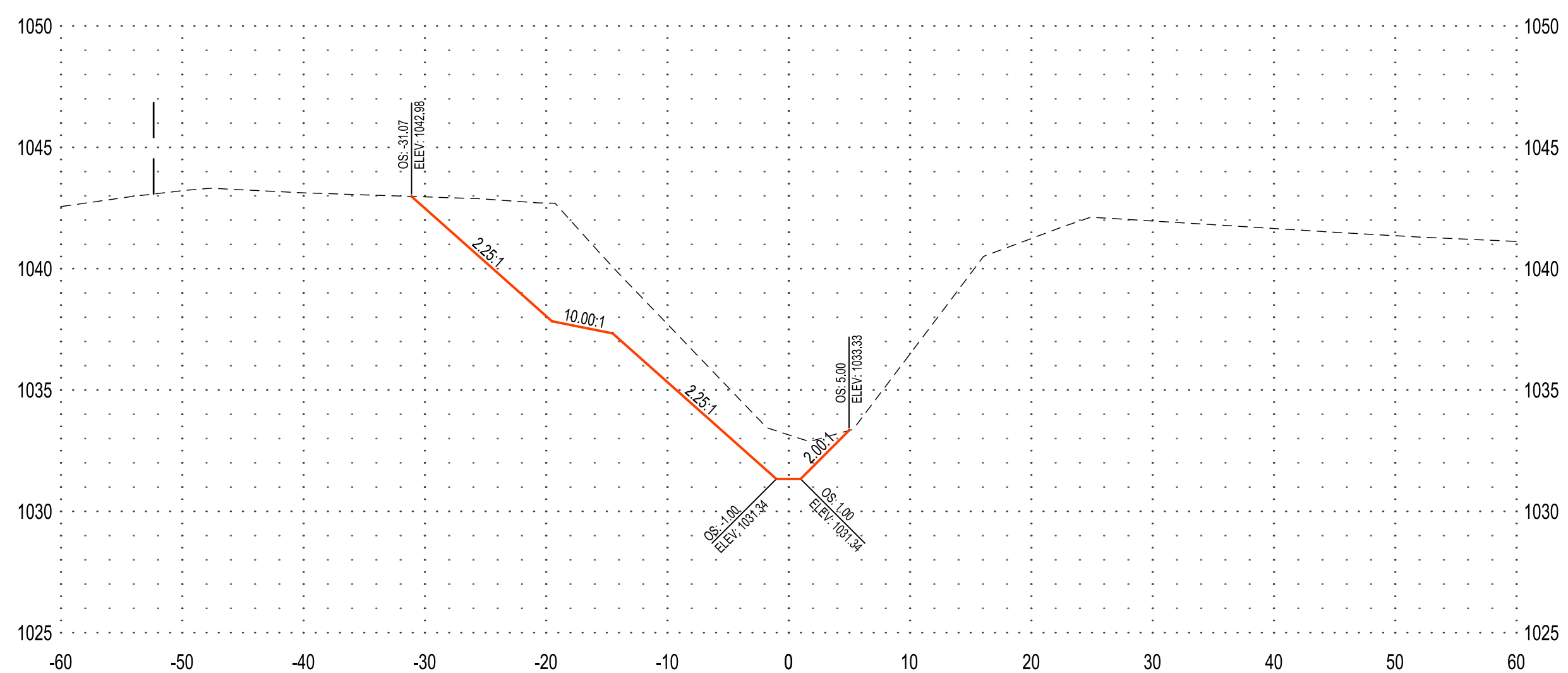
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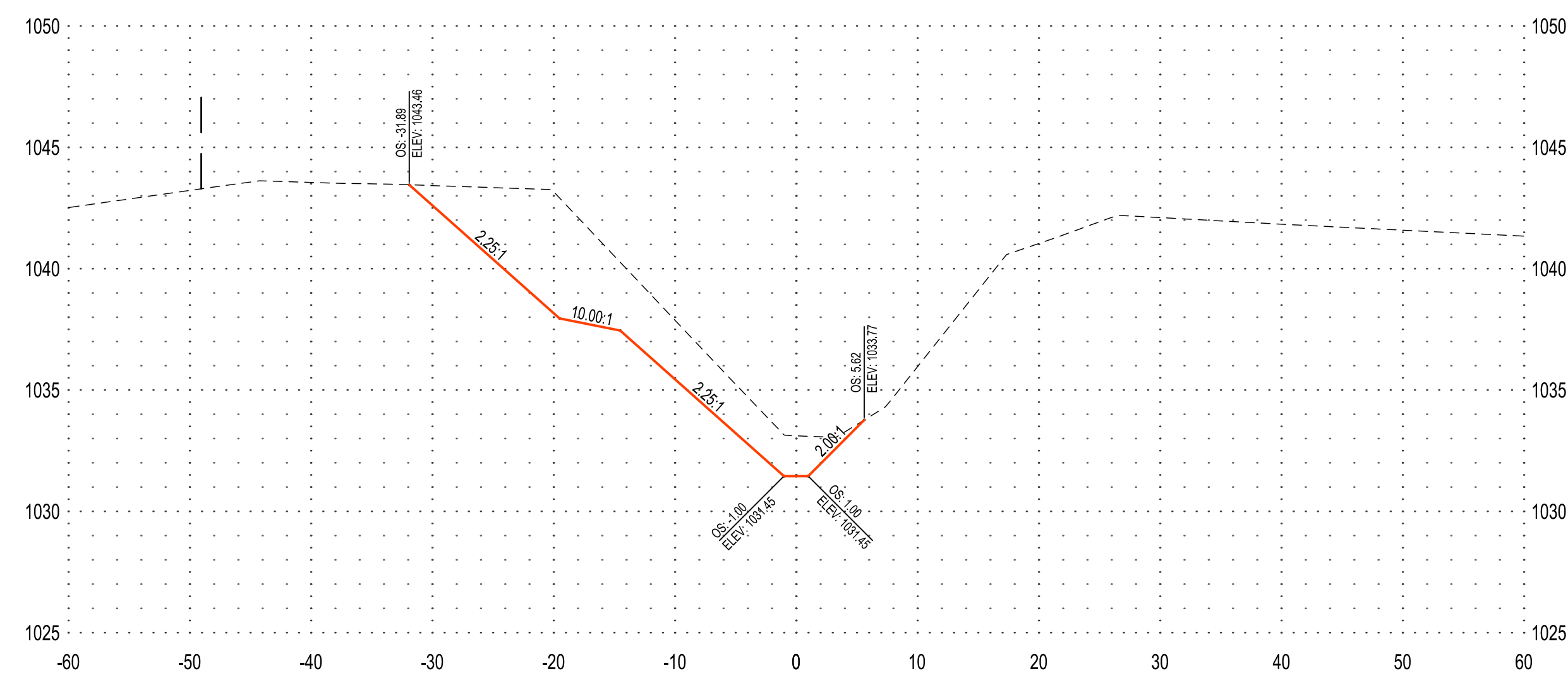
47+00



43+00



46+00



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PROJECT

OLIVER LAKE DRAINAGE DITCH LATERAL 1

ONAWA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

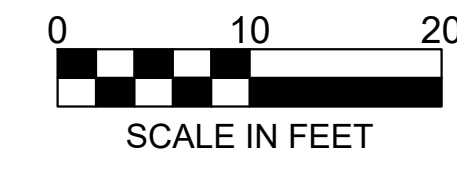
PROJECT NO.	23-29660
FILE NAME	29660 SECTIONS
DRAWN BY	KJH
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE

CROSS SECTIONS LATERAL 1

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**OLIVER LAKE
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LATERAL 1

ONAWA IOWA

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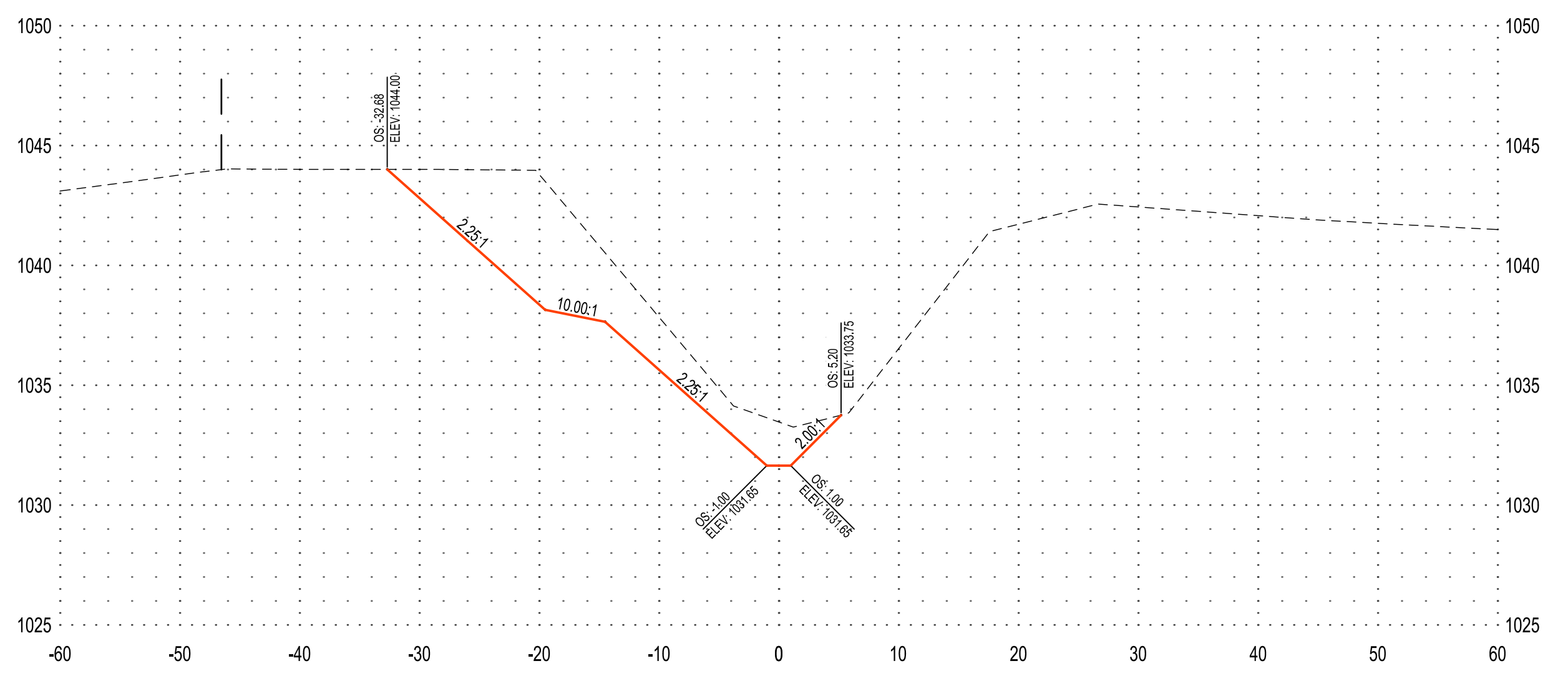
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**CROSS SECTIONS
LATERAL 1**

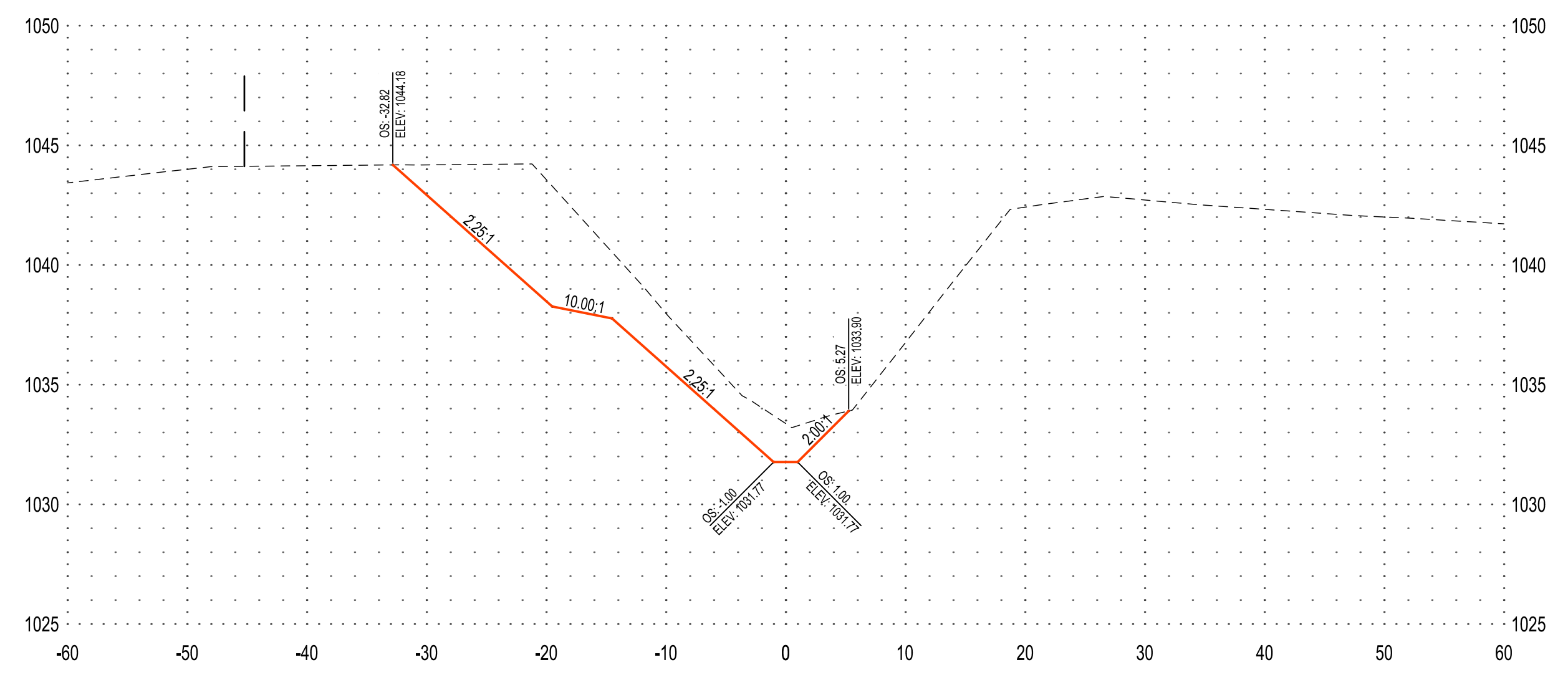
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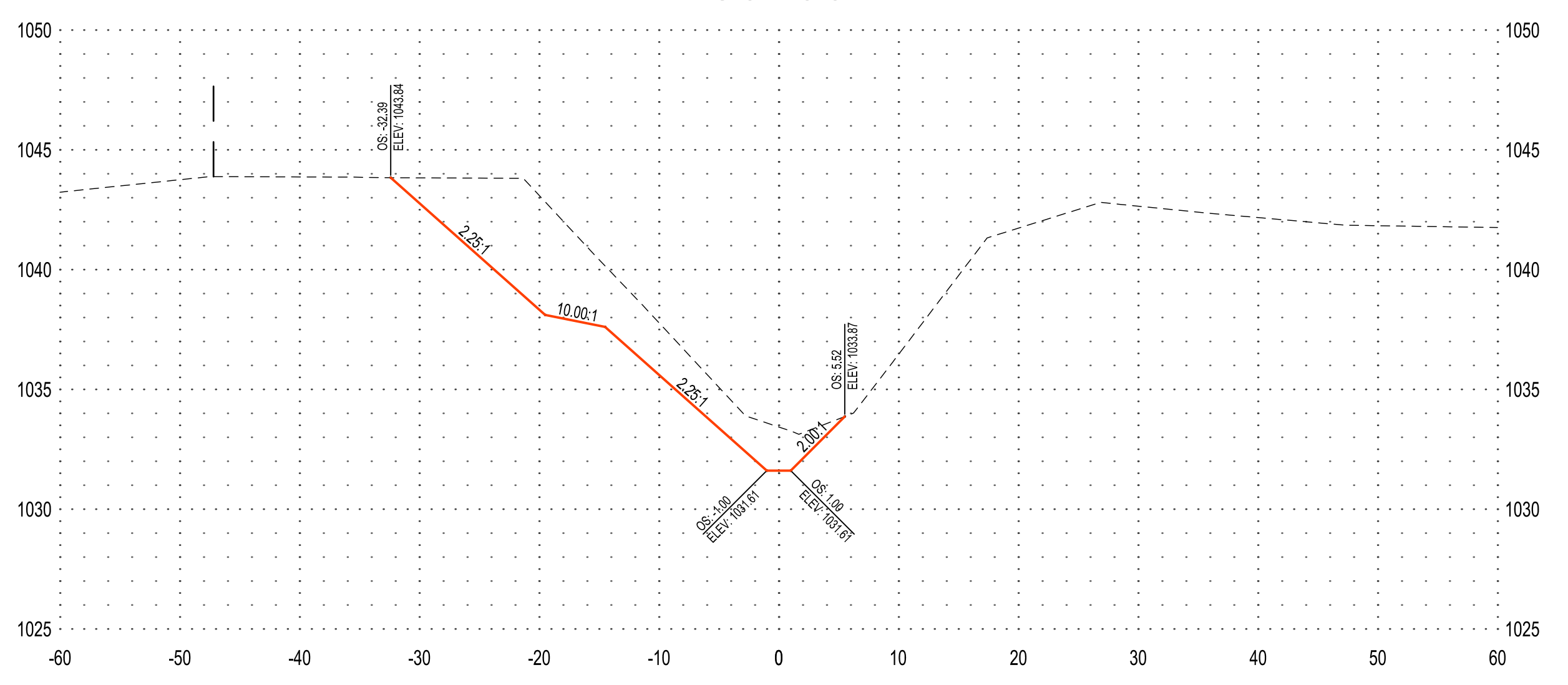
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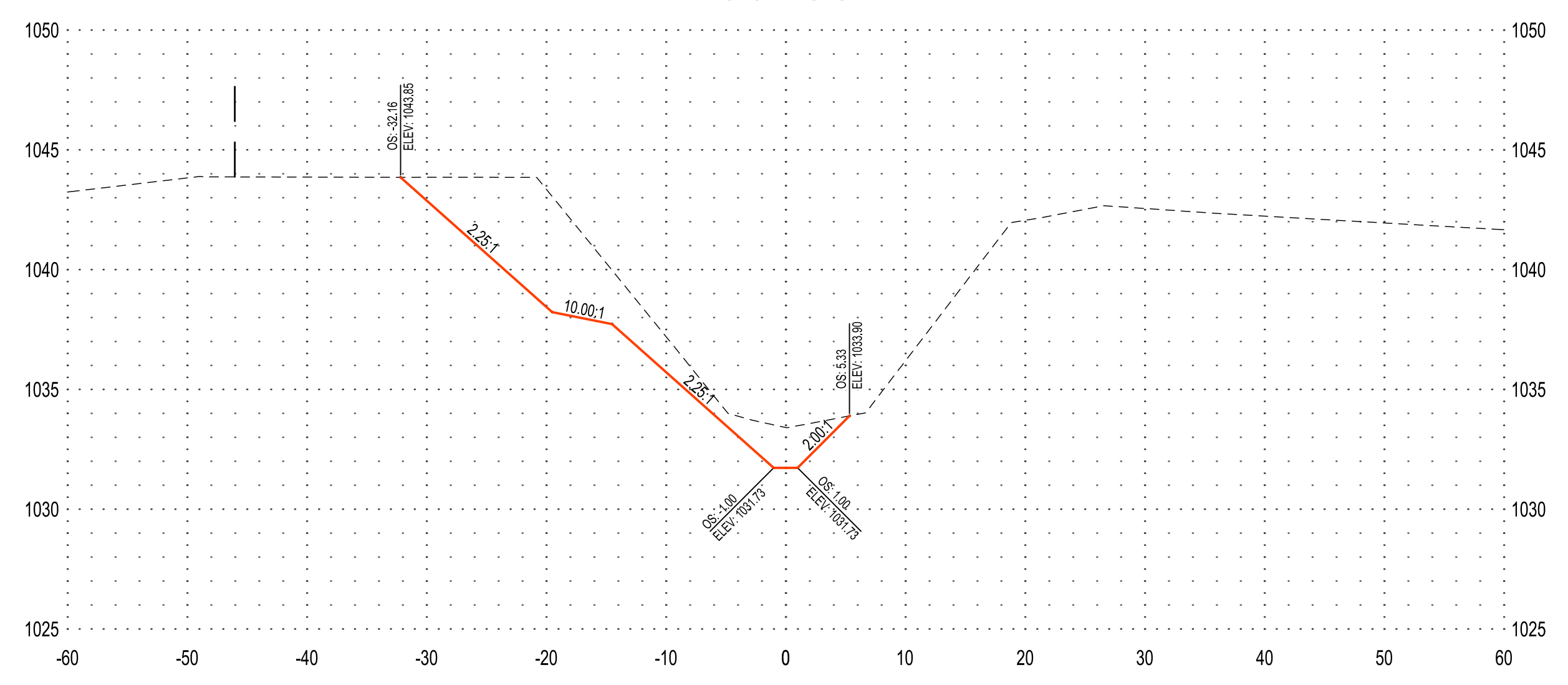
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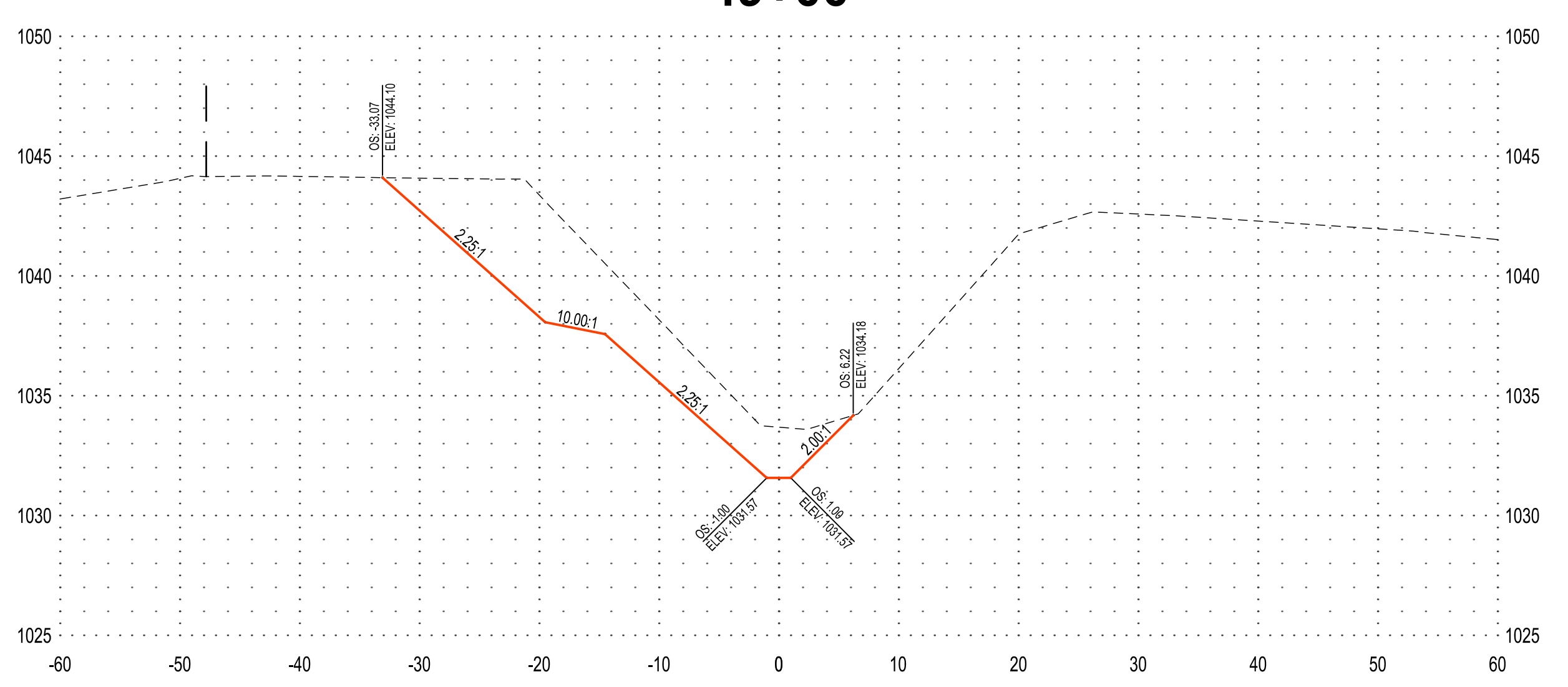
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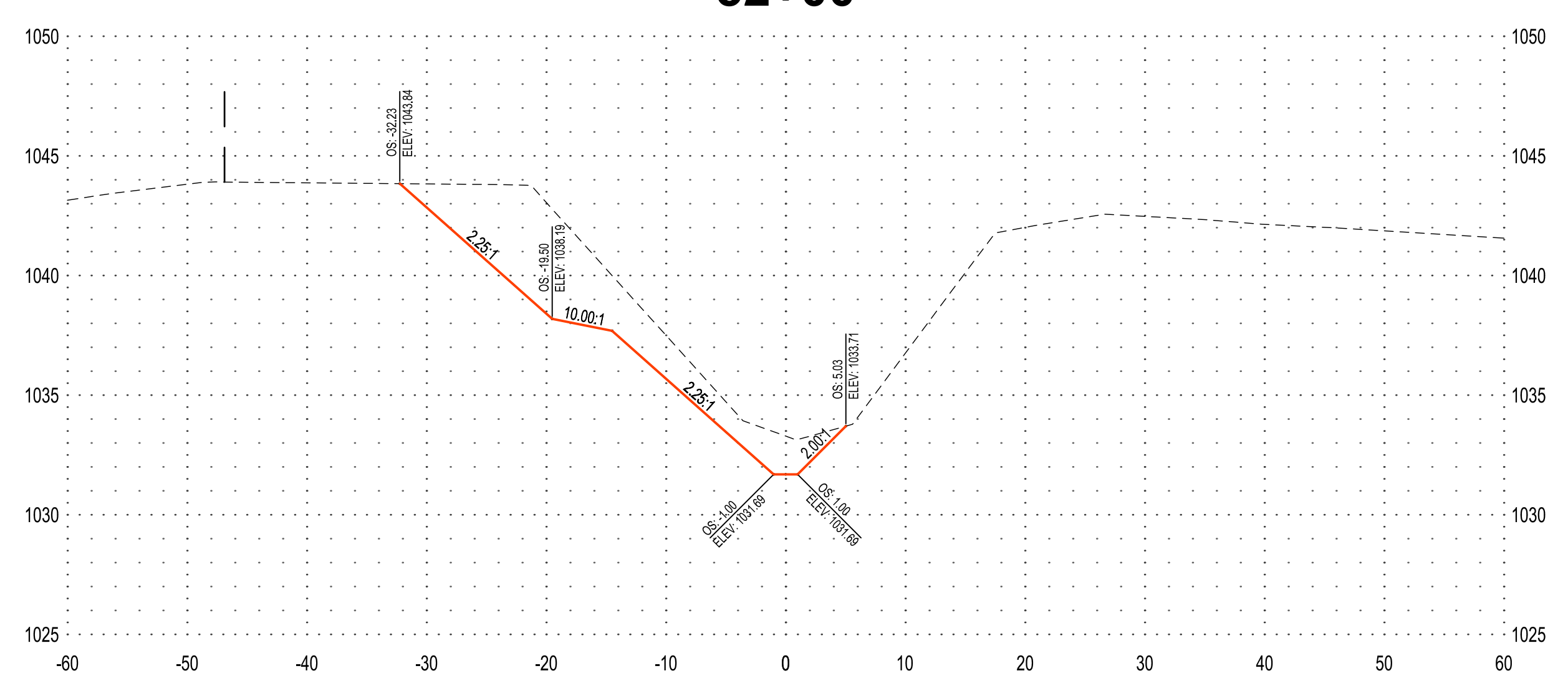
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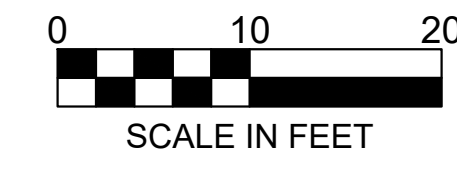


49+00



52+00





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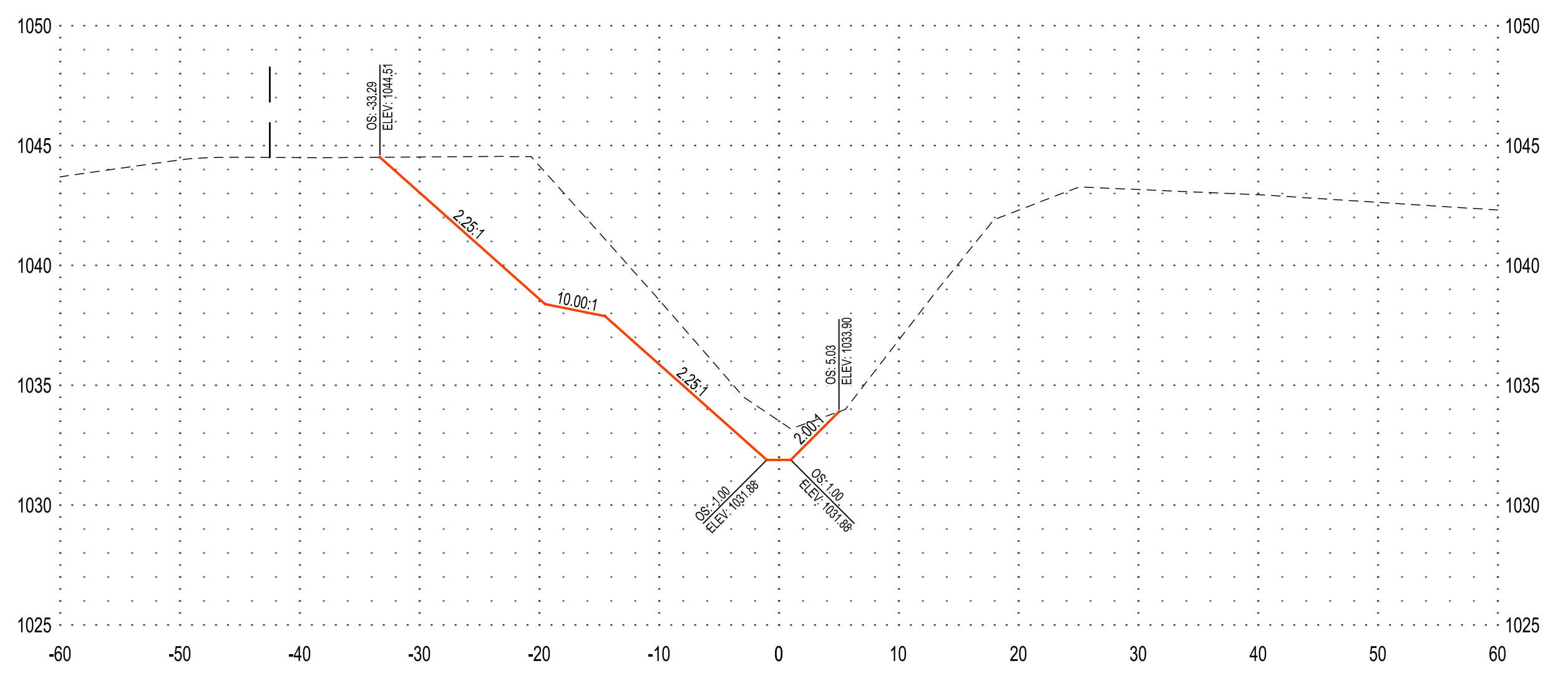
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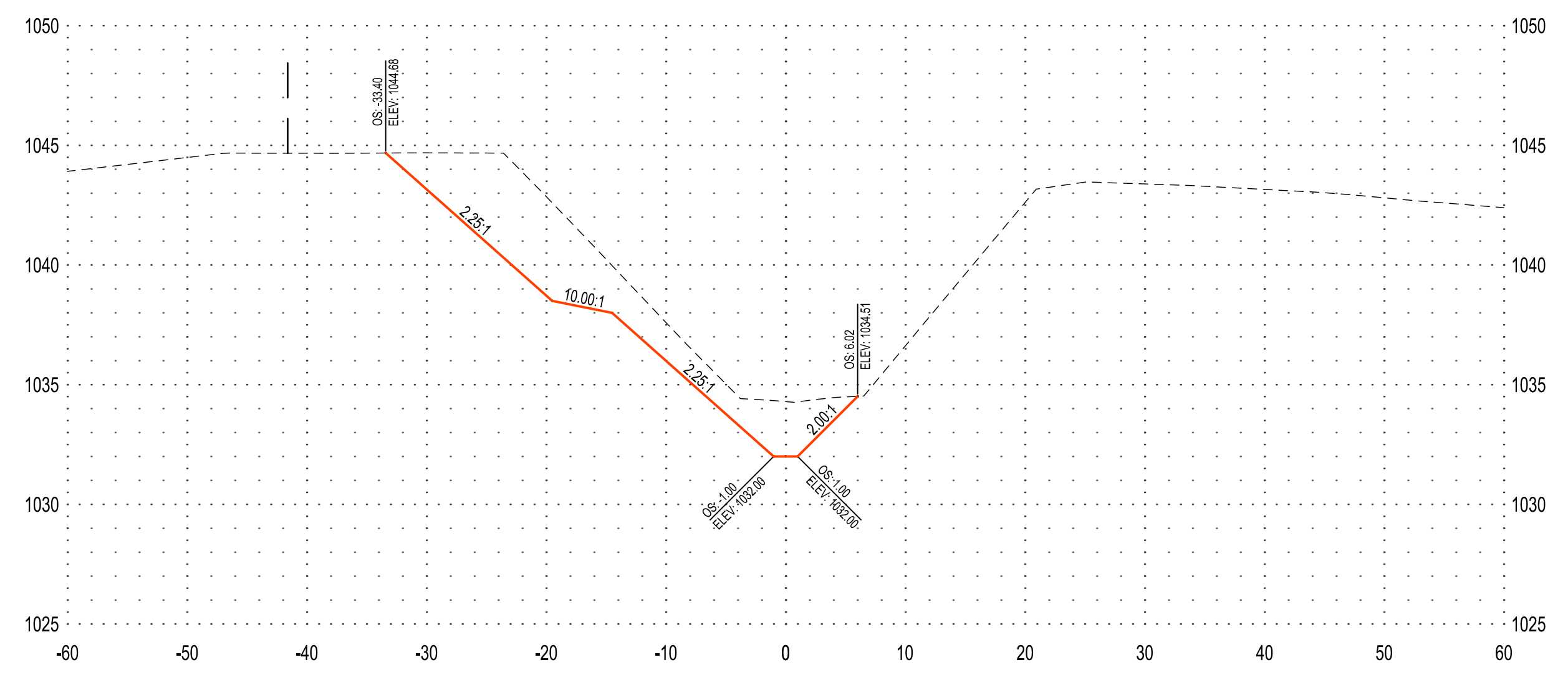
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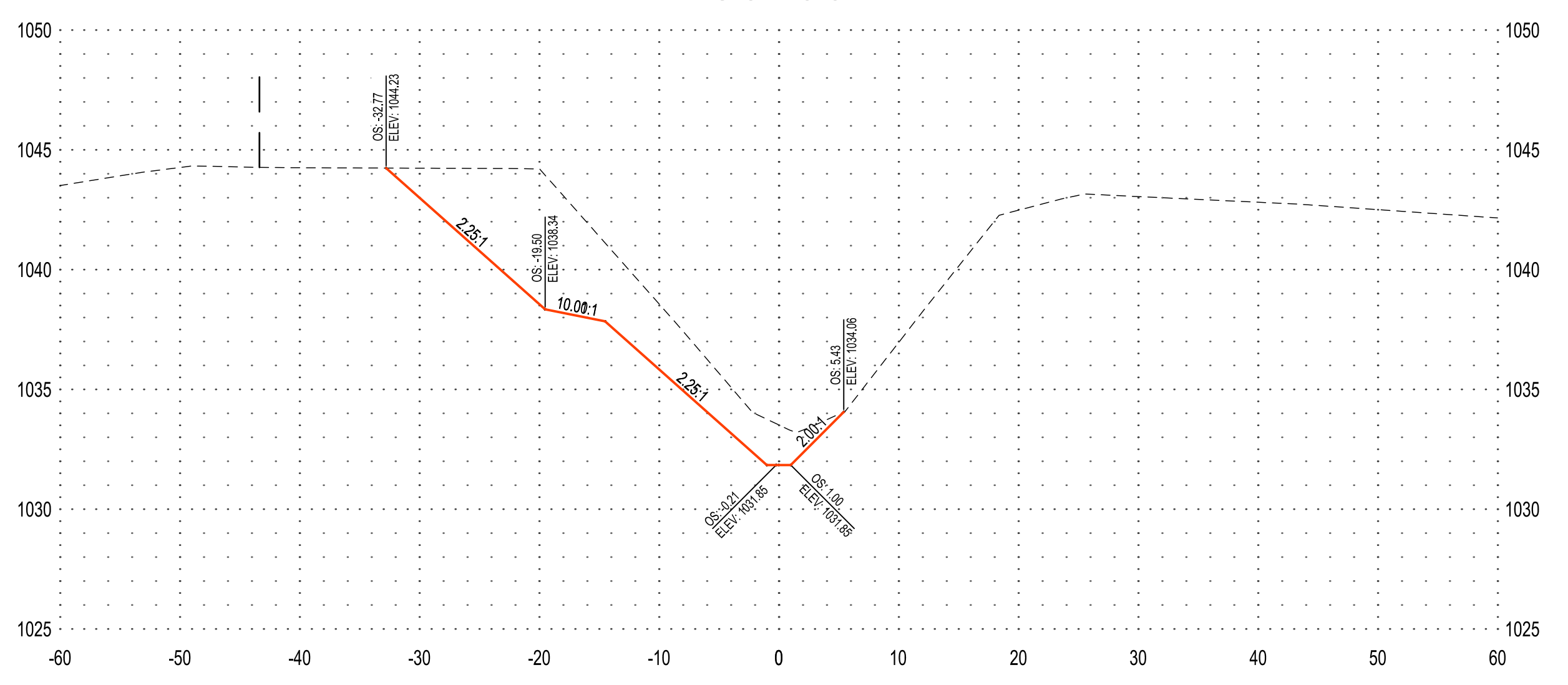
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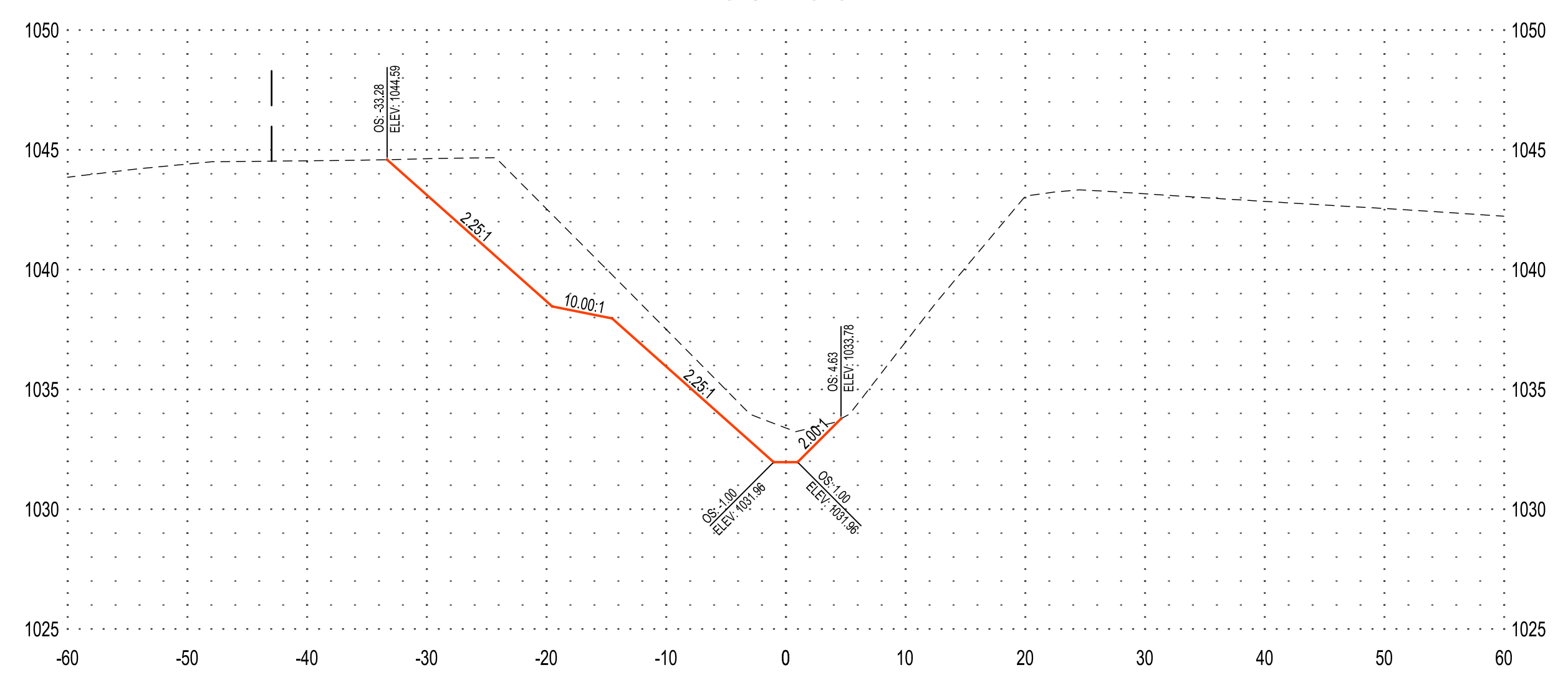
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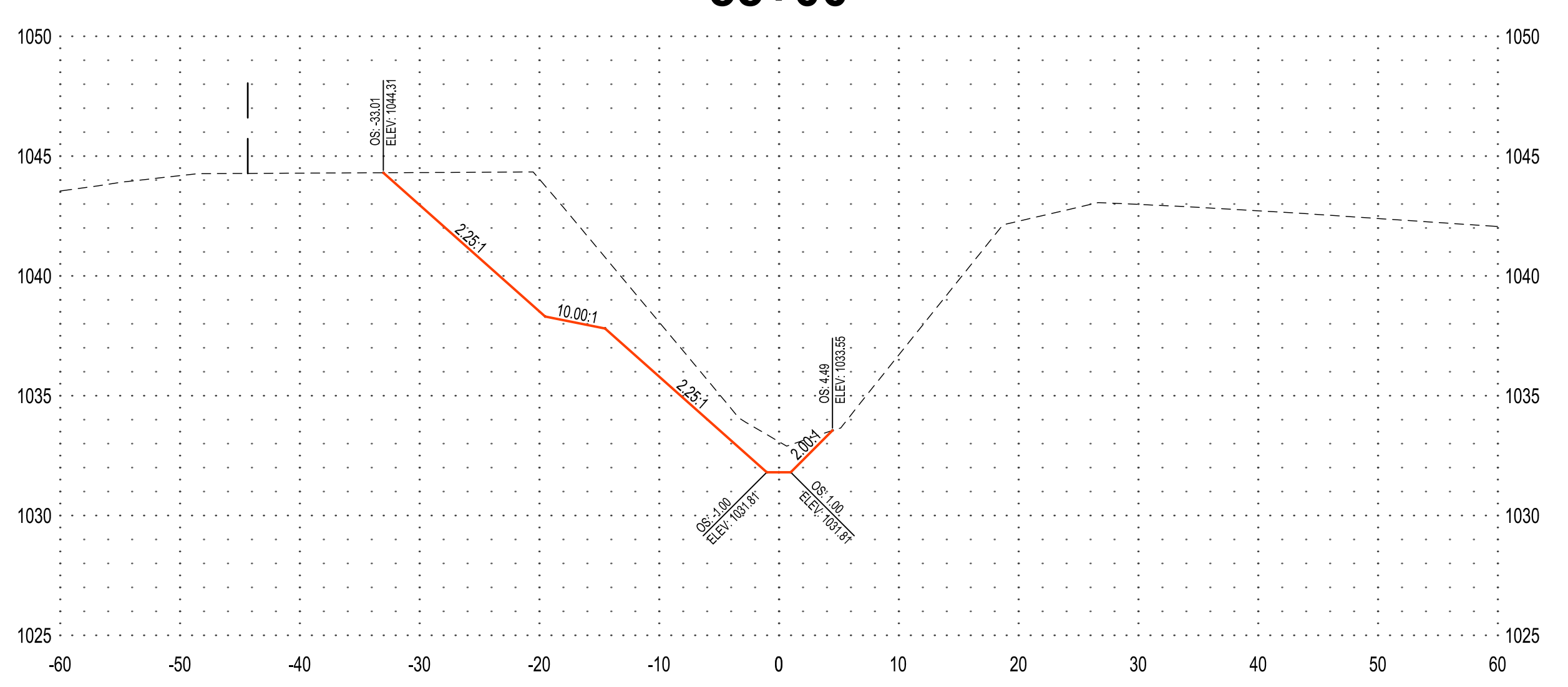
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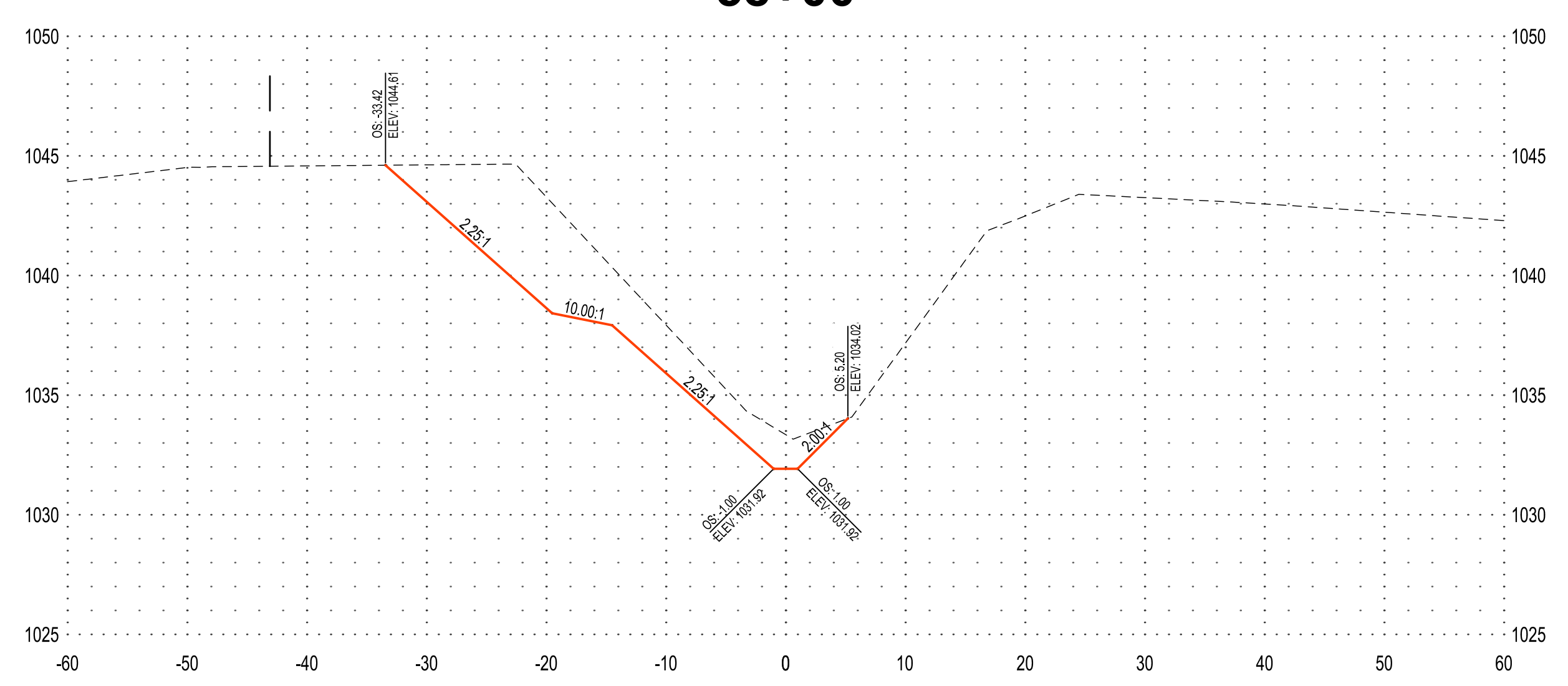
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55+00



58+00





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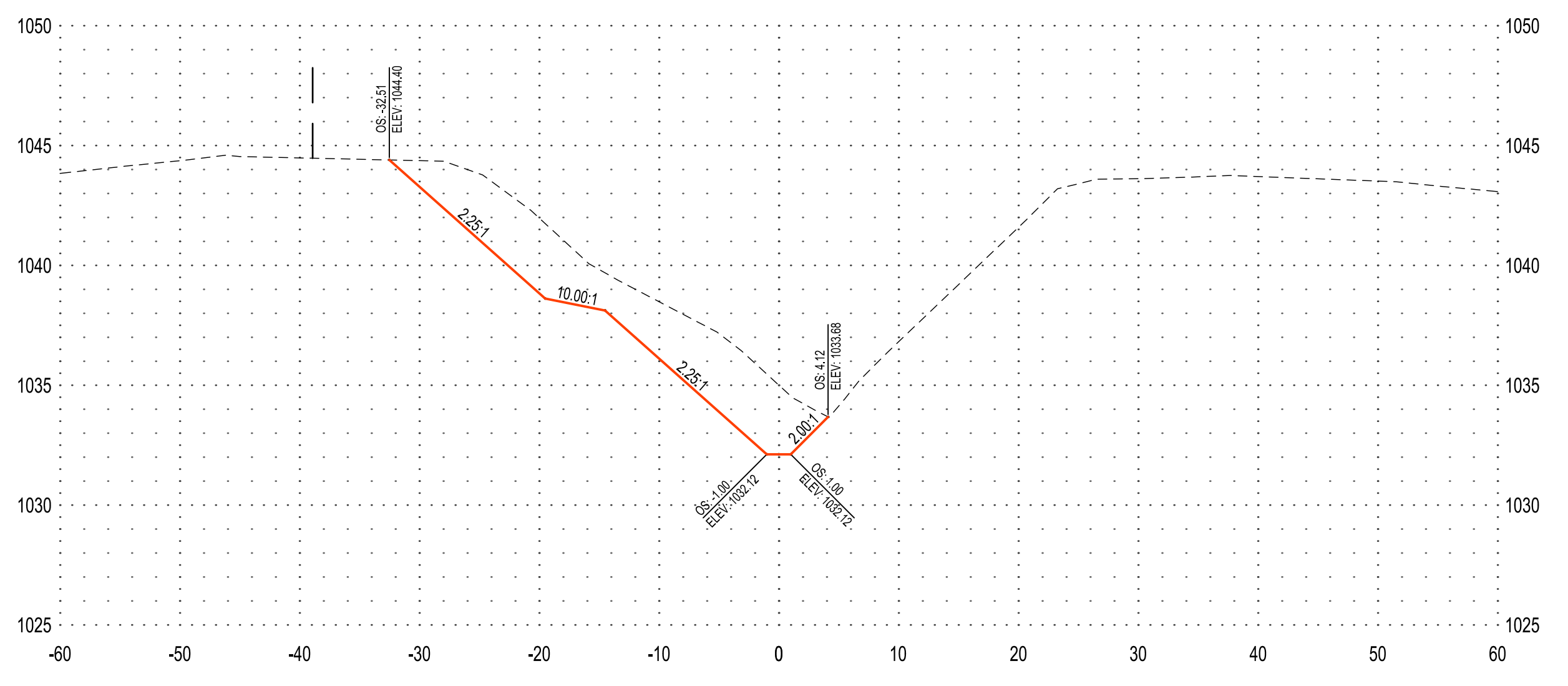
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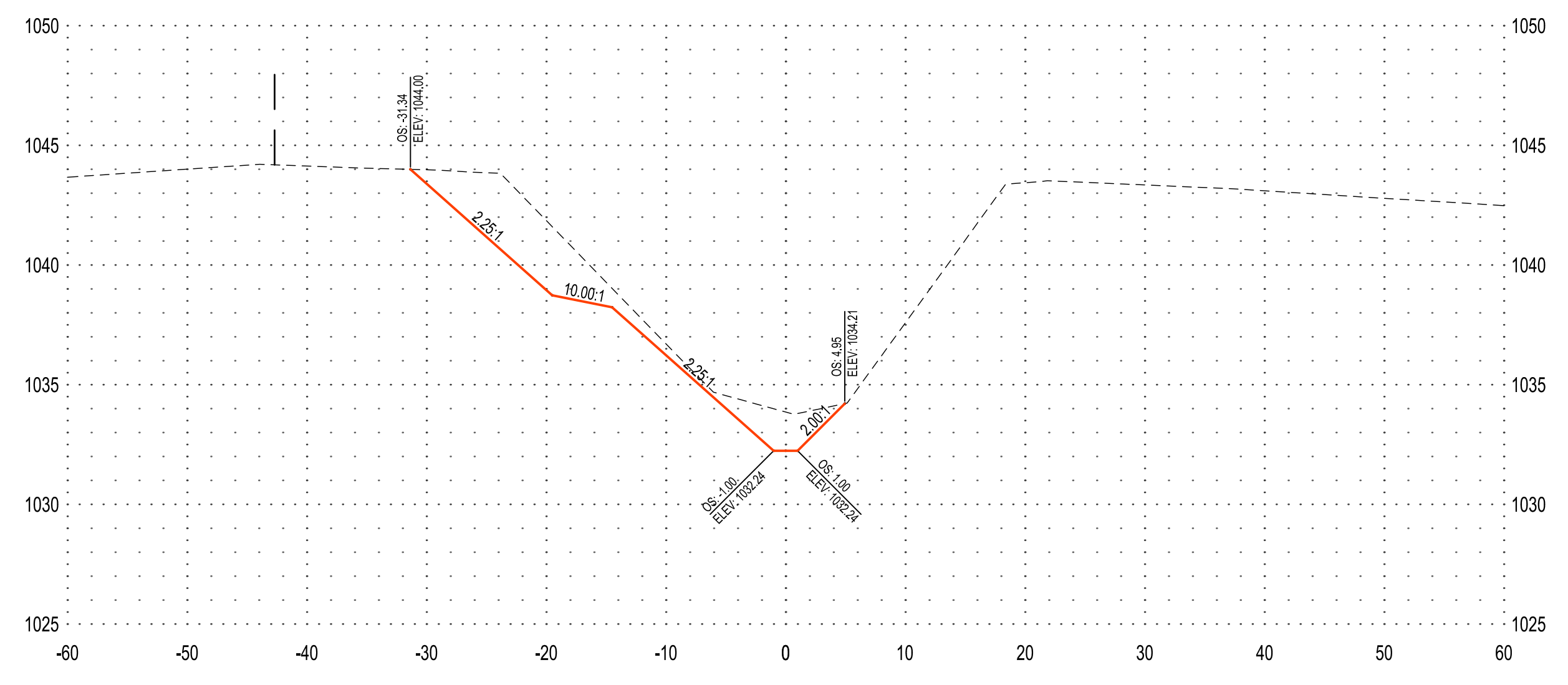
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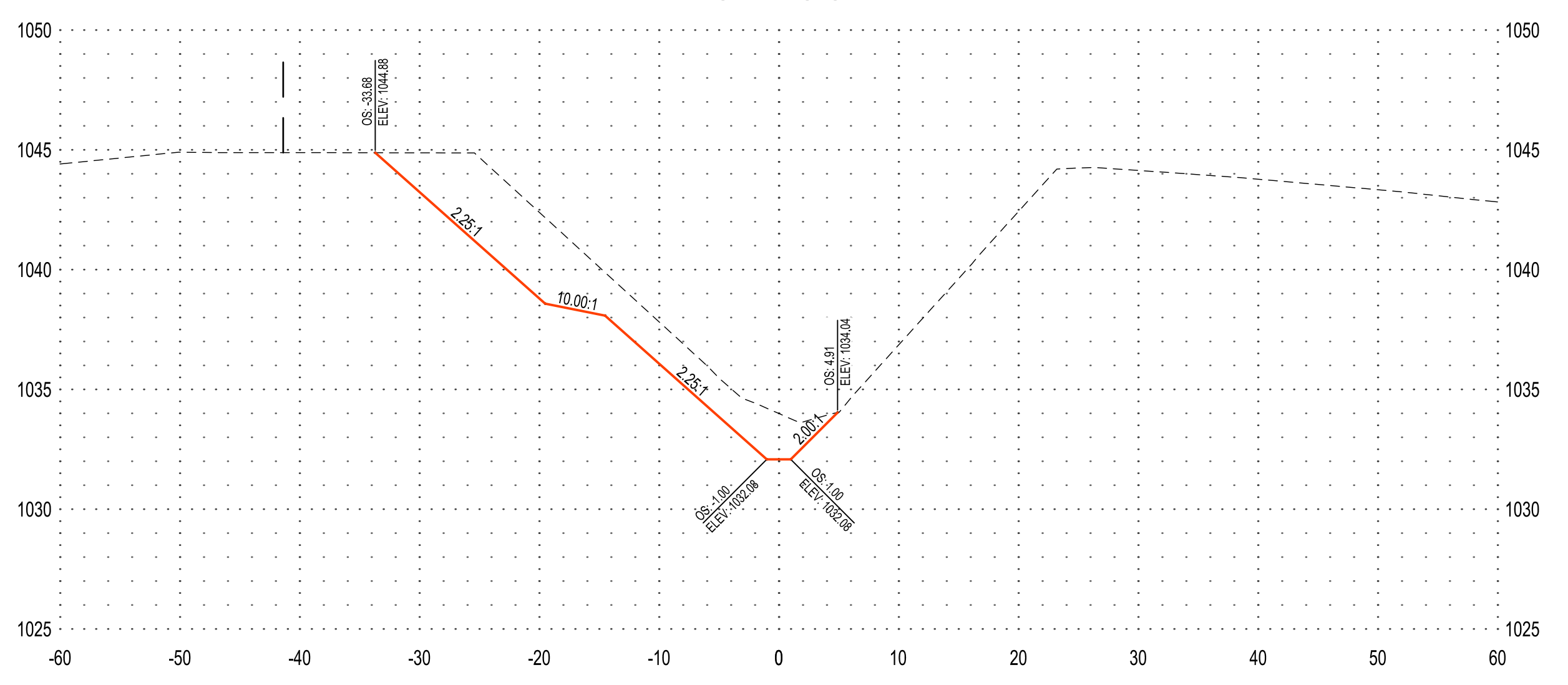
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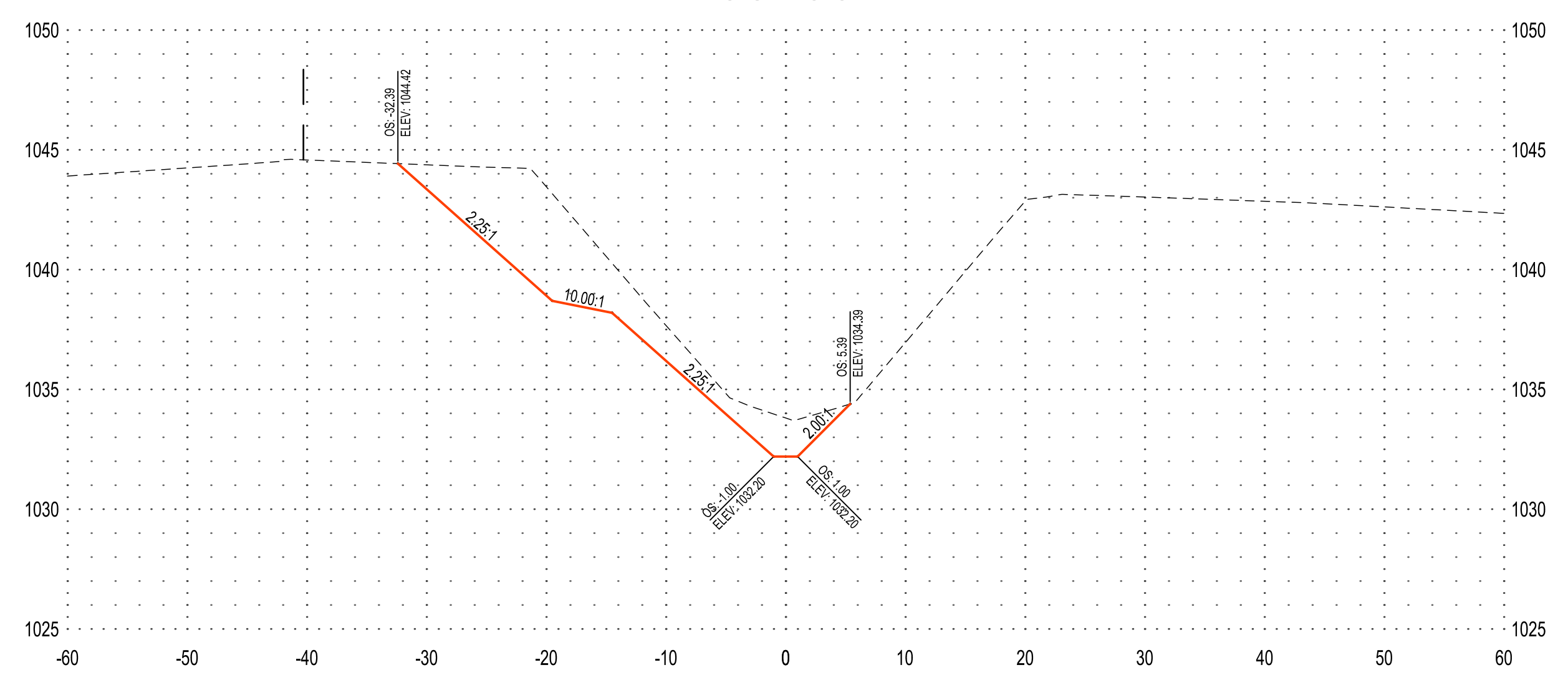
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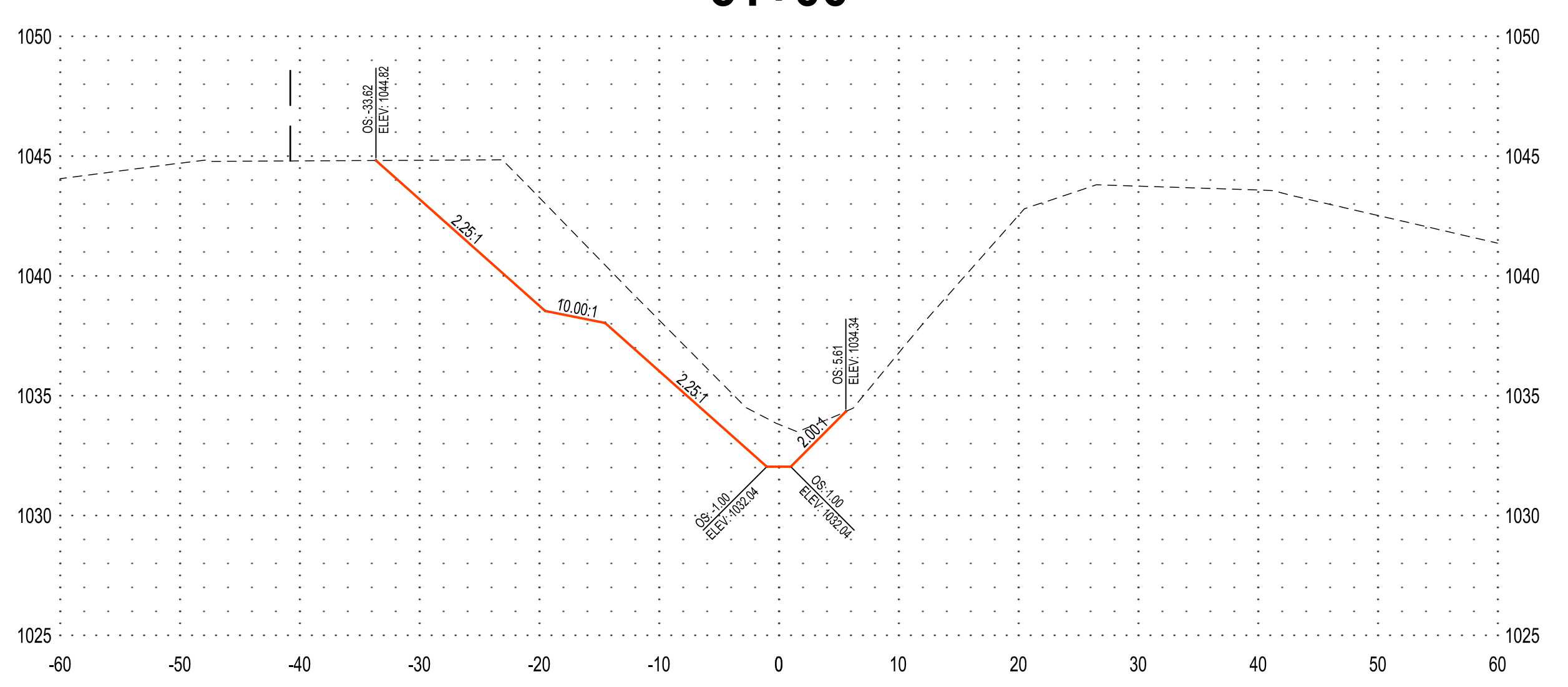
62+00



65+00



61+00



64+00

