

# BROWNSVILLE NAVIGATION DISTRICT DRAWINGS FOR **2016 BND DOCKS MAINTENANCE DREDGING**

MARCH 2016



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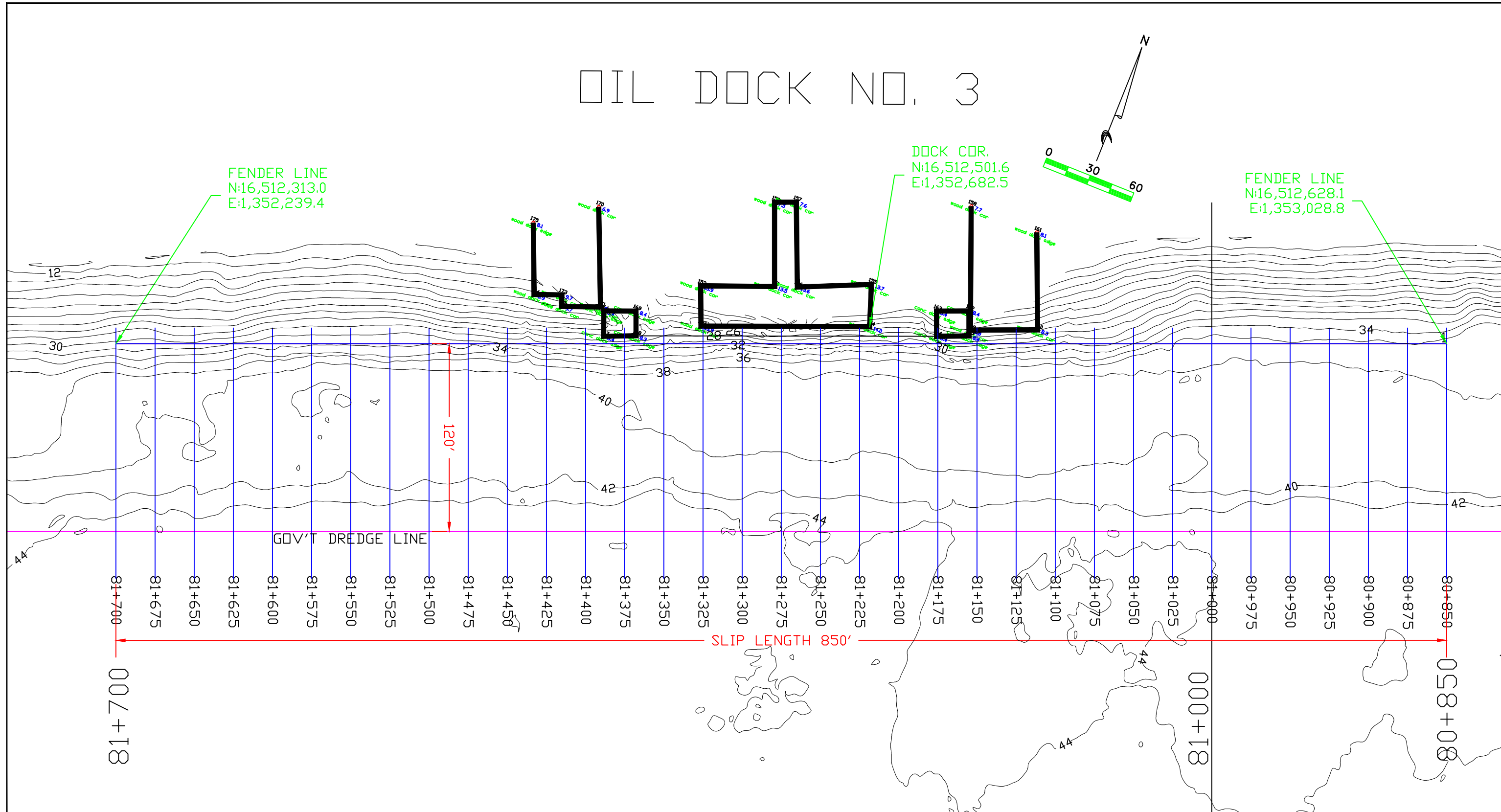
*Ariel Chavez II, P.E. / R.P.L.S.*

March 3, 2016

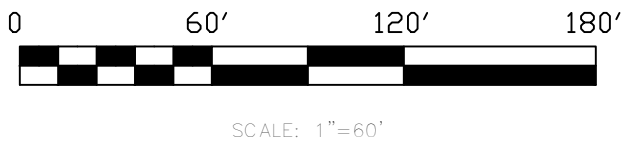
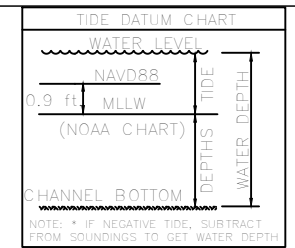
**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**

**OIL DOCK 3**

# OIL DOCK NO. 3



**NOTES:**  
 1) DEPTHS/ELEVATIONS WERE MEASURED BY NAISMITH MARINE SERVICES ON DECEMBER 19, 2014. SEA FLOOR CONDITIONS ARE SUBJECT TO CHANGE.  
 2) HORIZONTAL DATUM: NAD27, TEXAS SOUTH ZONE, US FEET.  
 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
 REFERENCE MONUMENT "535 R/L 1948 89+679.68"  
 N: 105,292.01  
 E: 2,360,559.23  
 ELEV: 14.7' MLLW (13.8' NAVD88)



**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
 Corpus Christi, Texas 78411  
 WWW.NAISMITHMARINE.COM  
 (361) 945-0248

NO.	DATE	REVISION

PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 OIL DOCK NO. 3  
 OIL DOCK 3

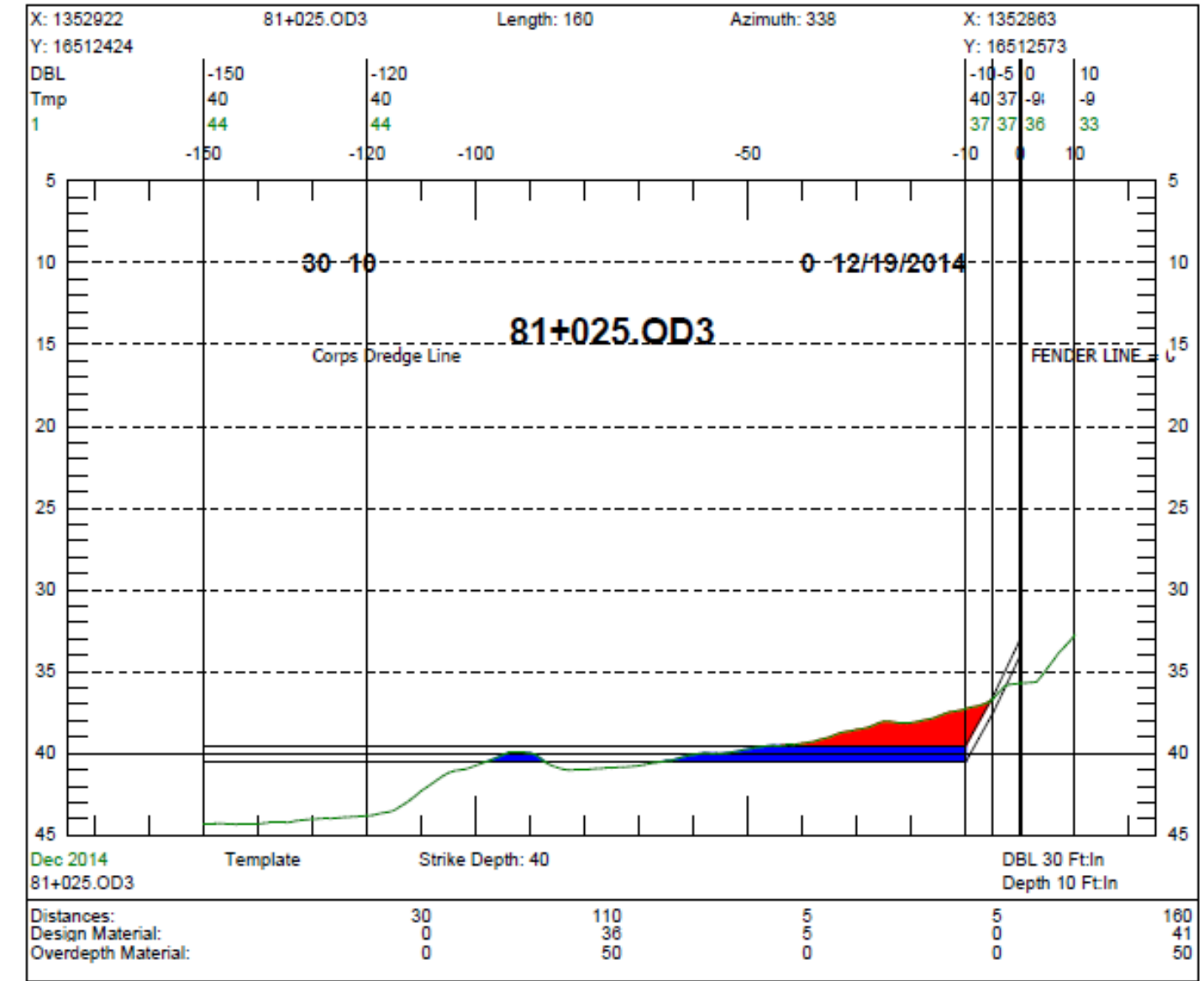
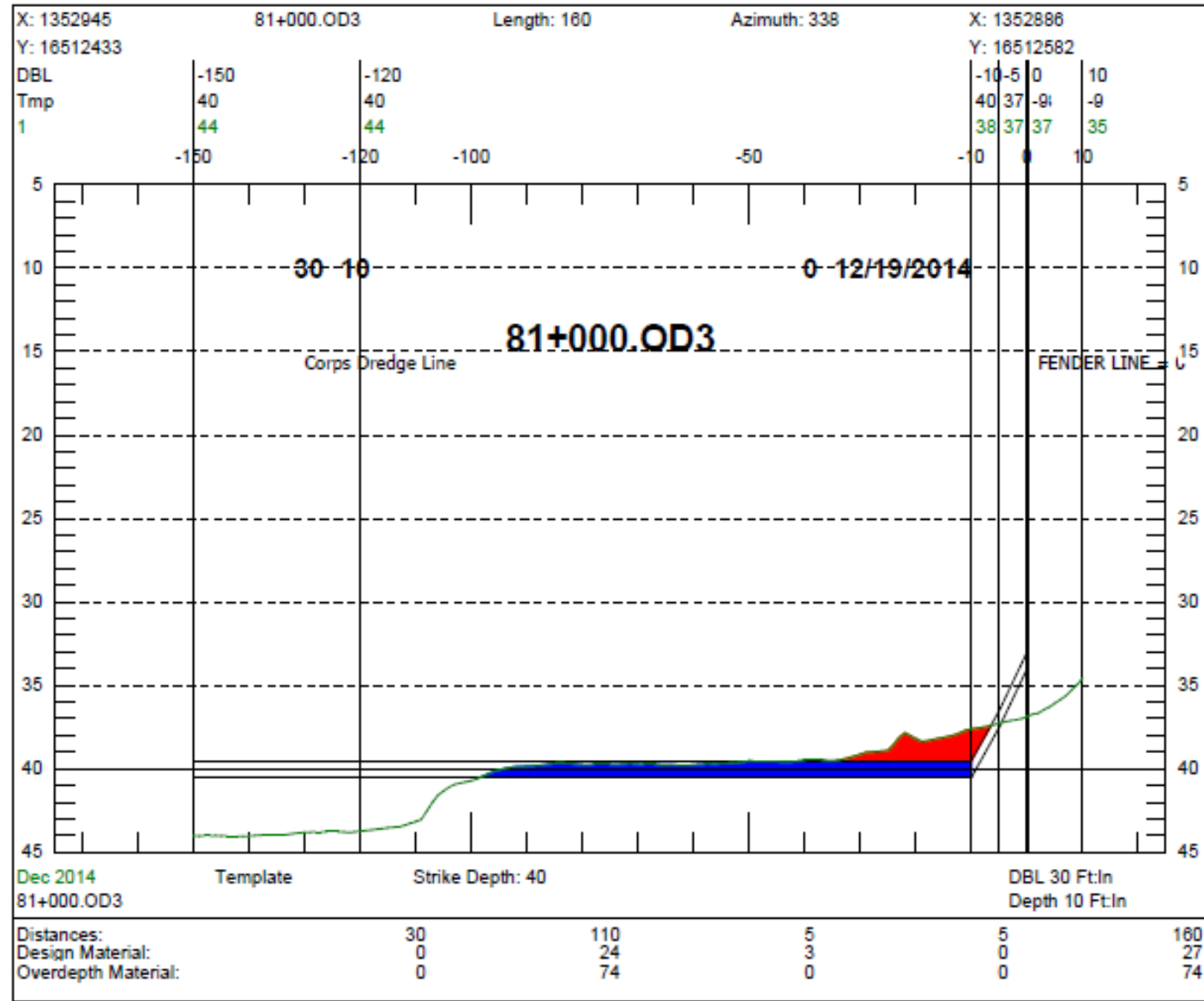
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 PAGE 03-2 OF 20  
 JUN. 2015



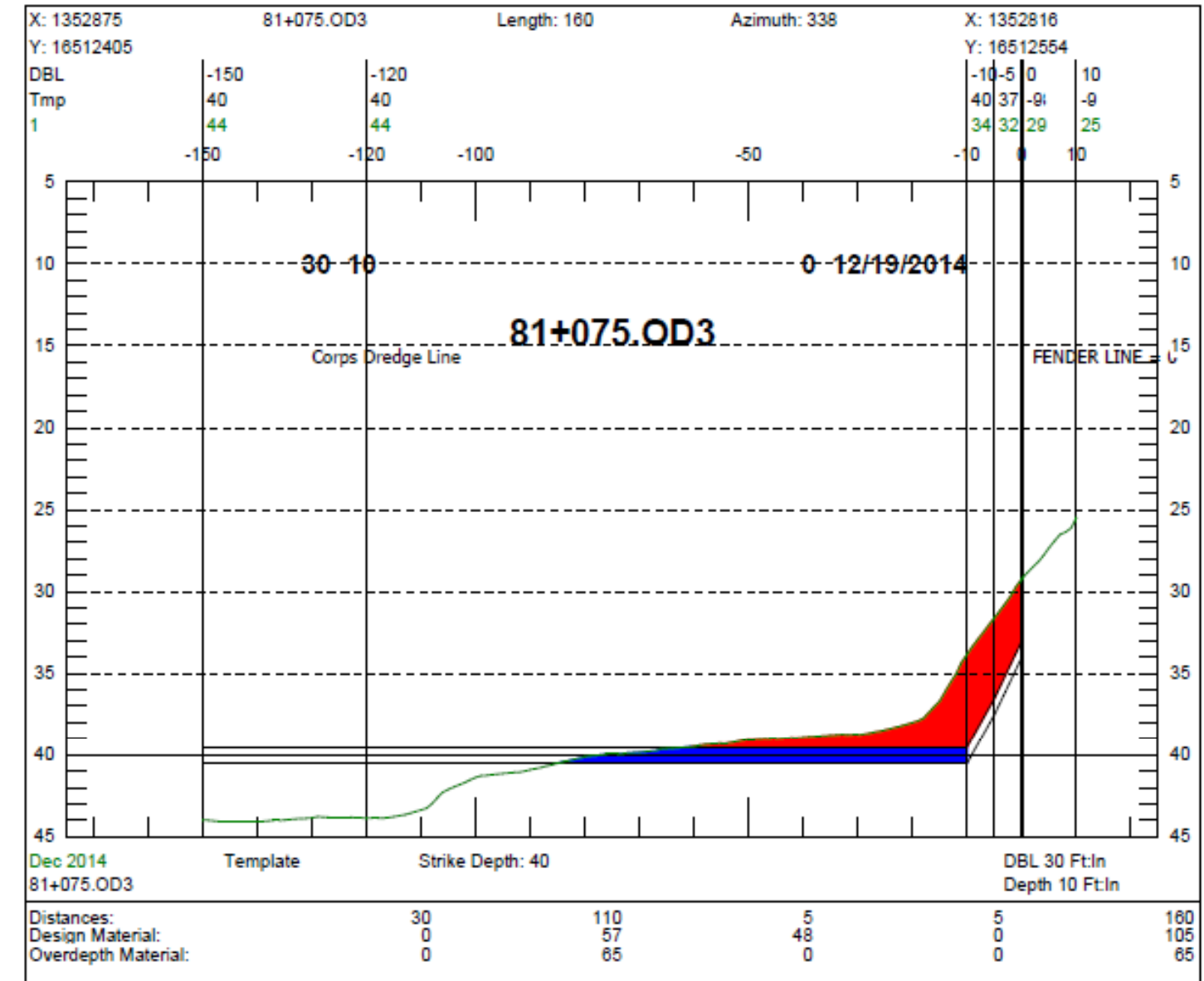
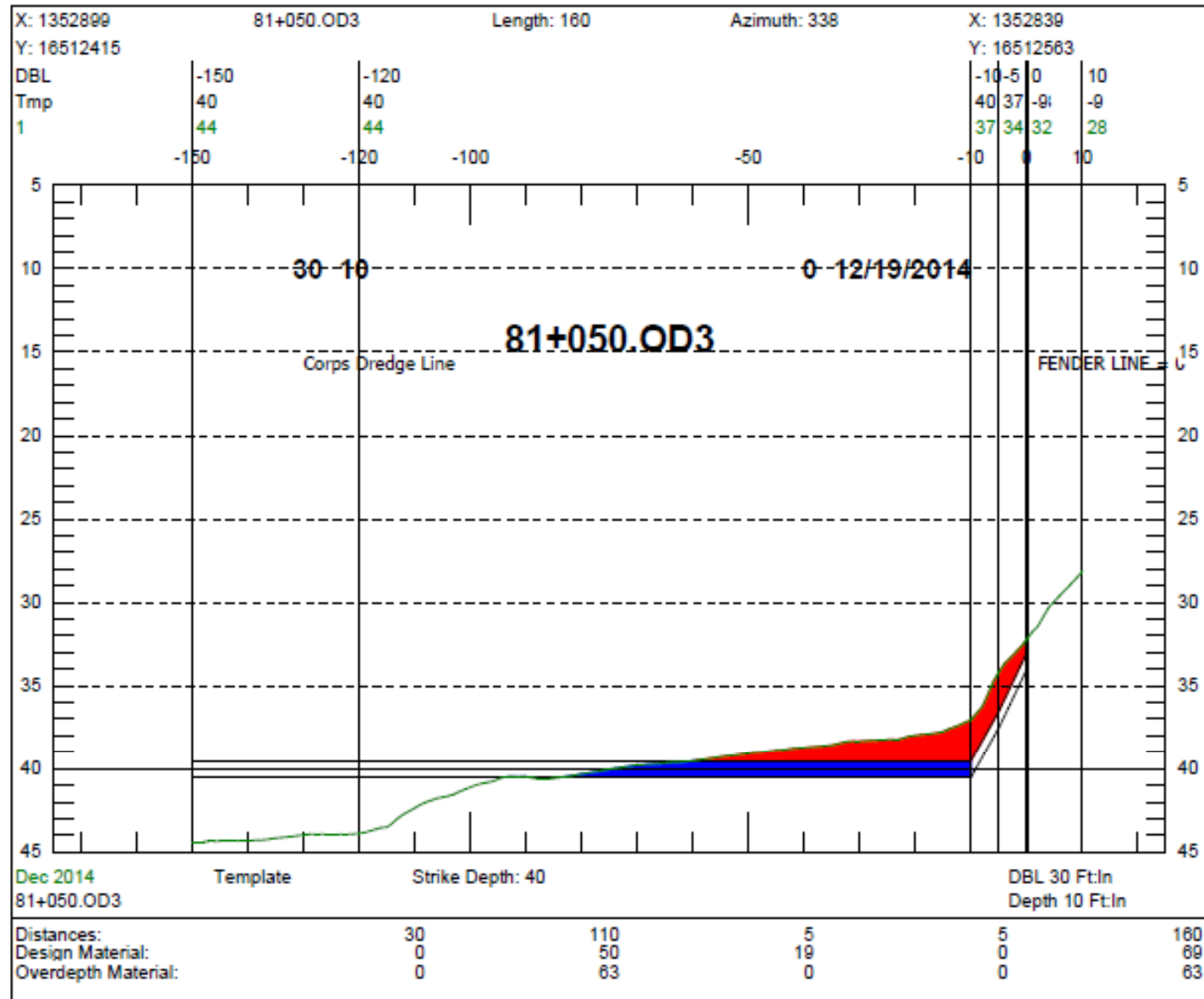






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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

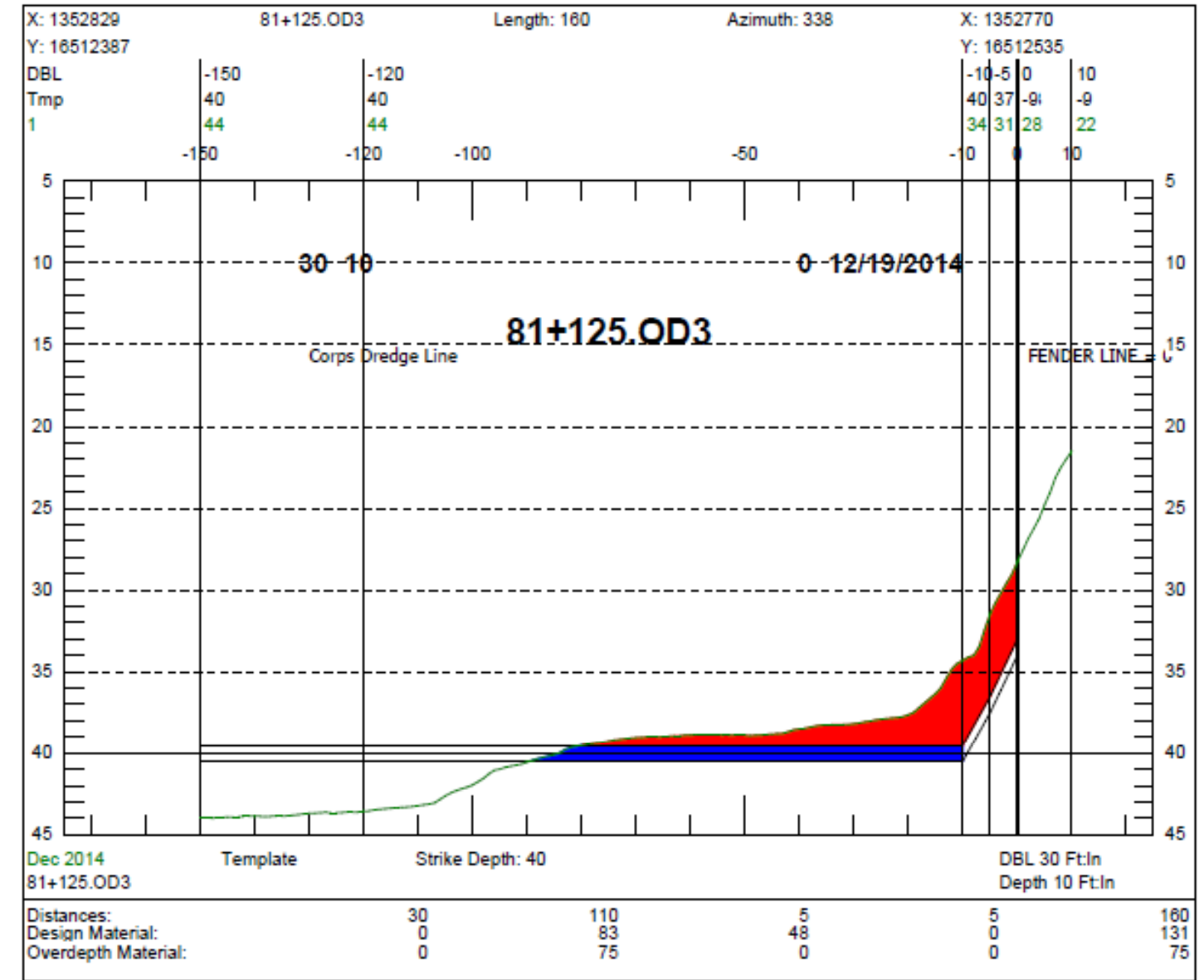
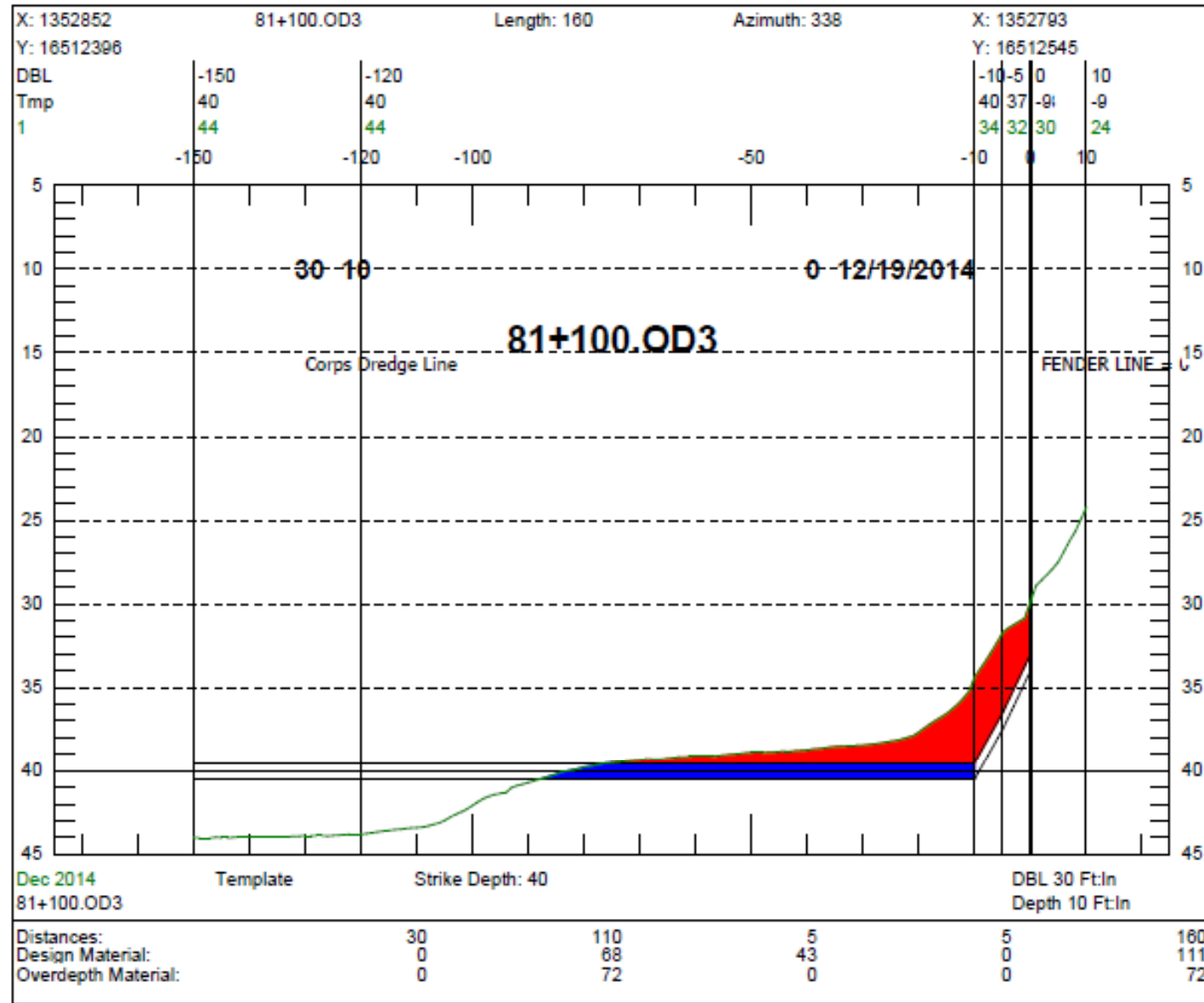
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 9 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 10 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



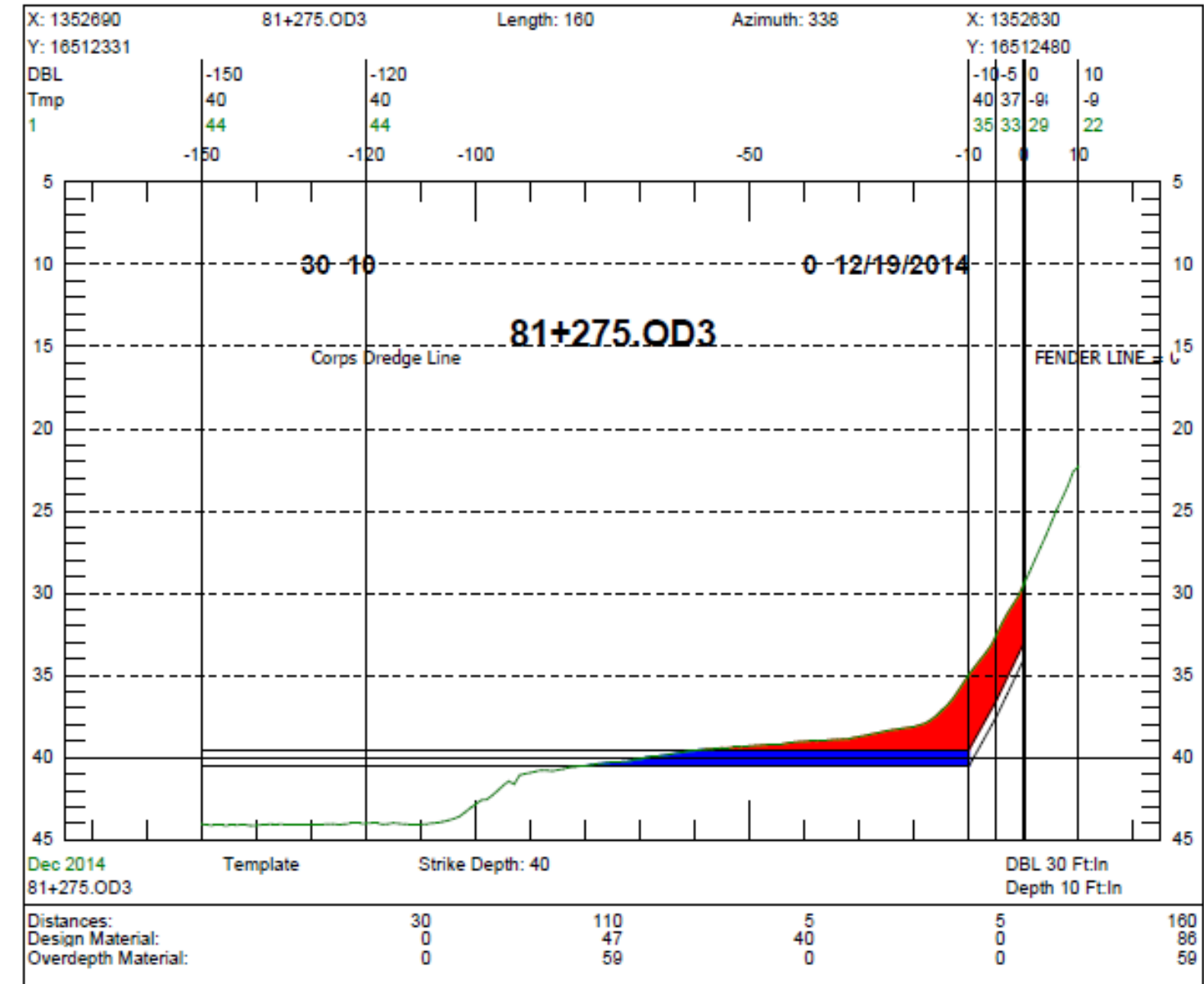
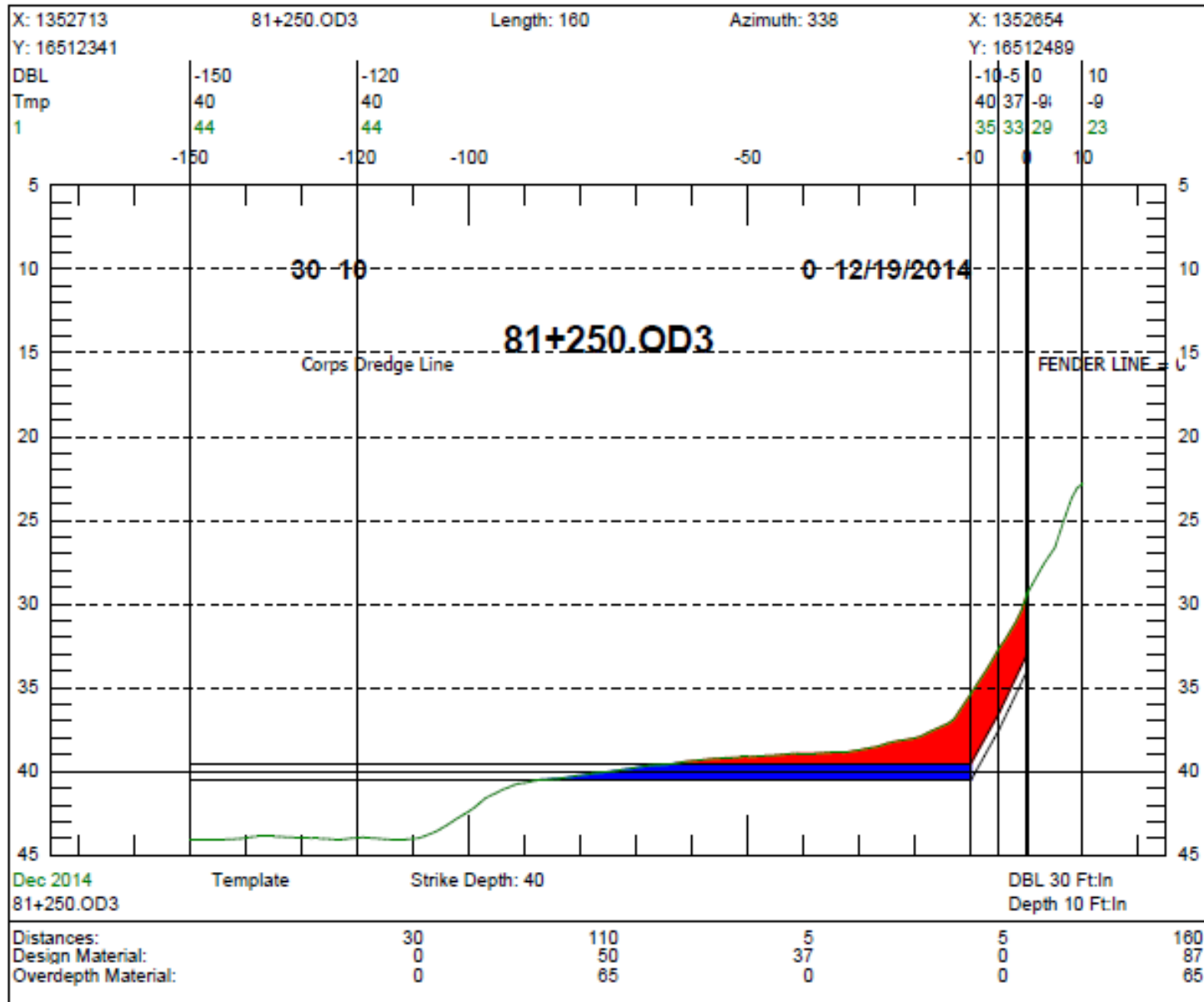


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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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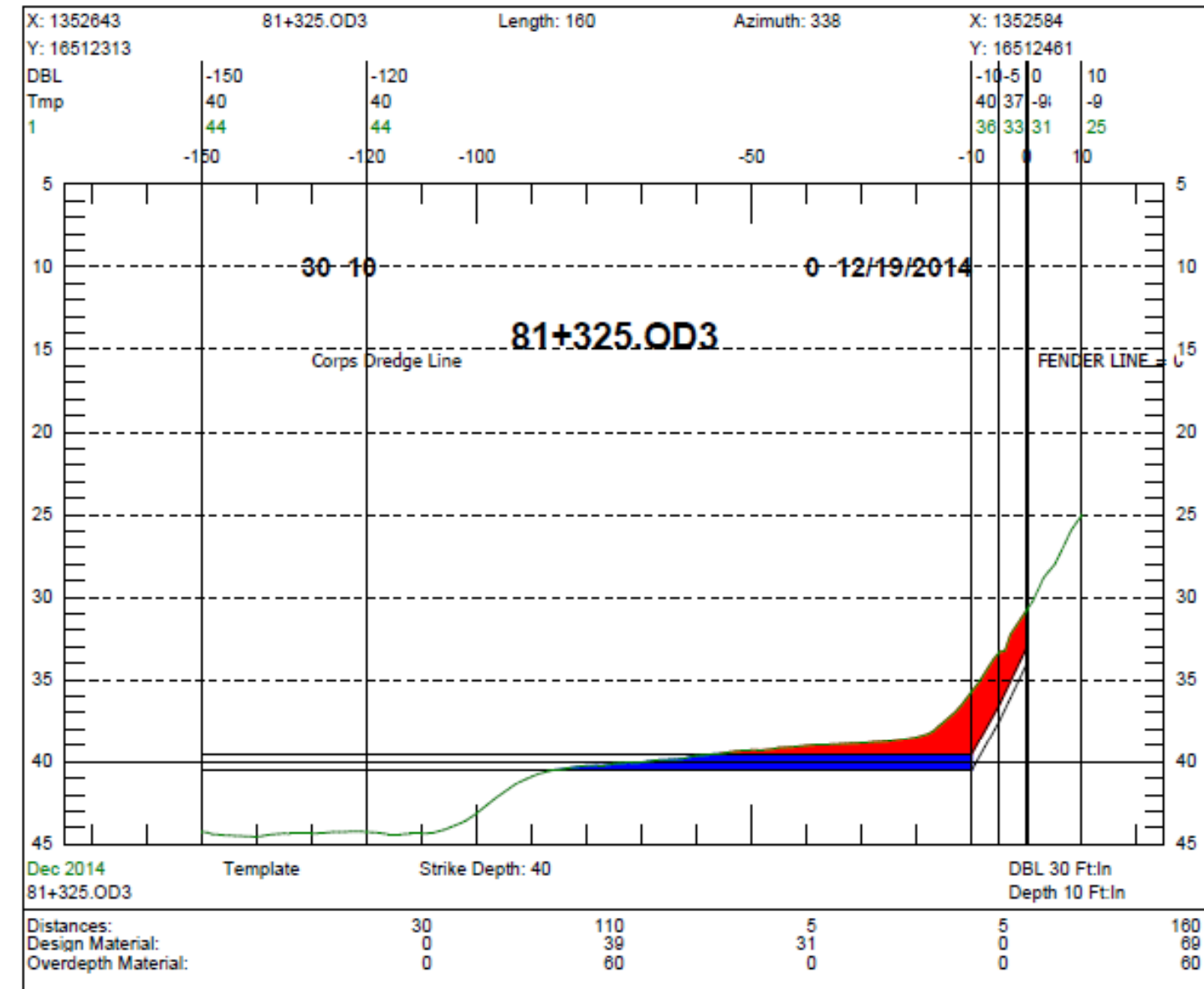
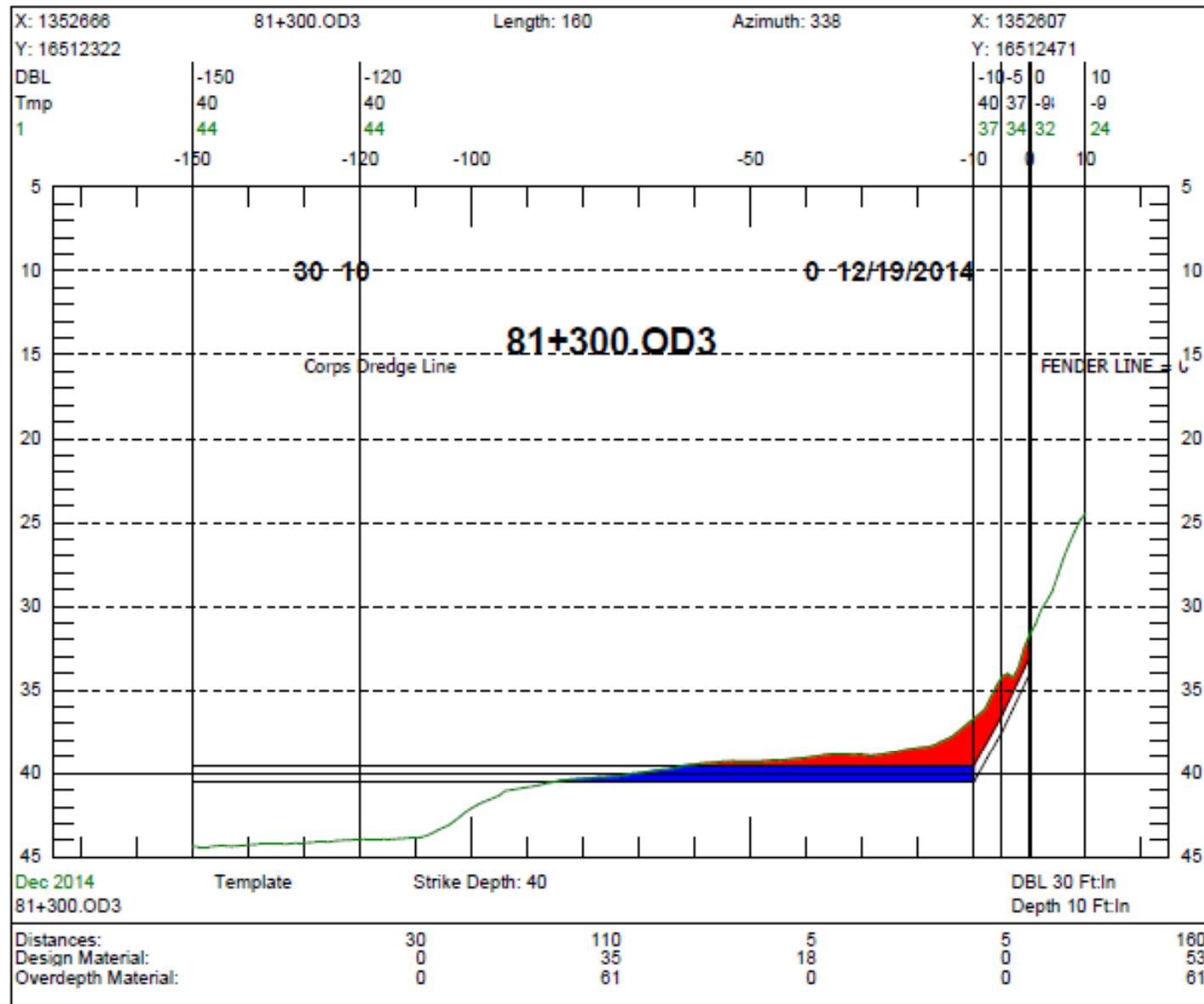






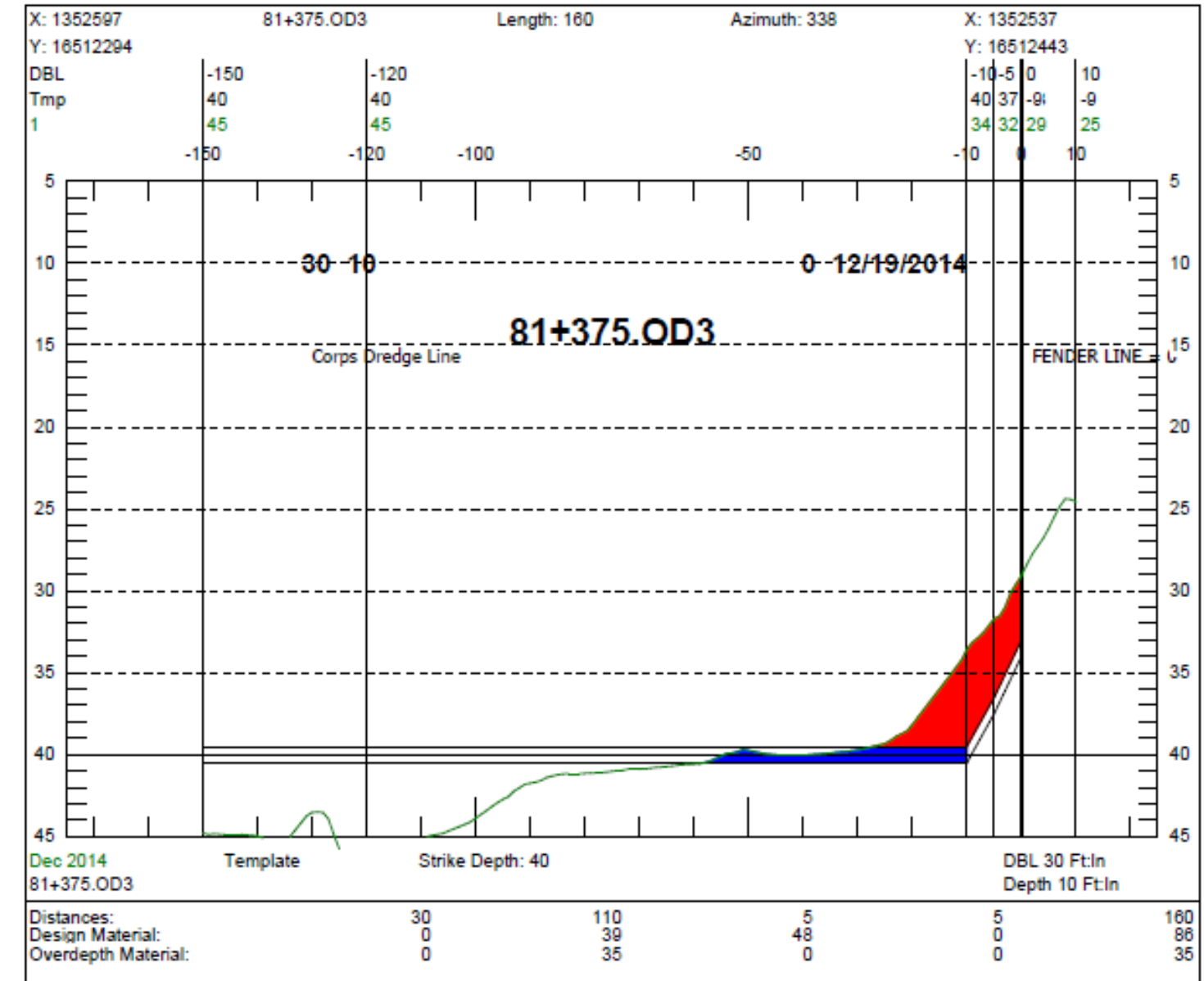
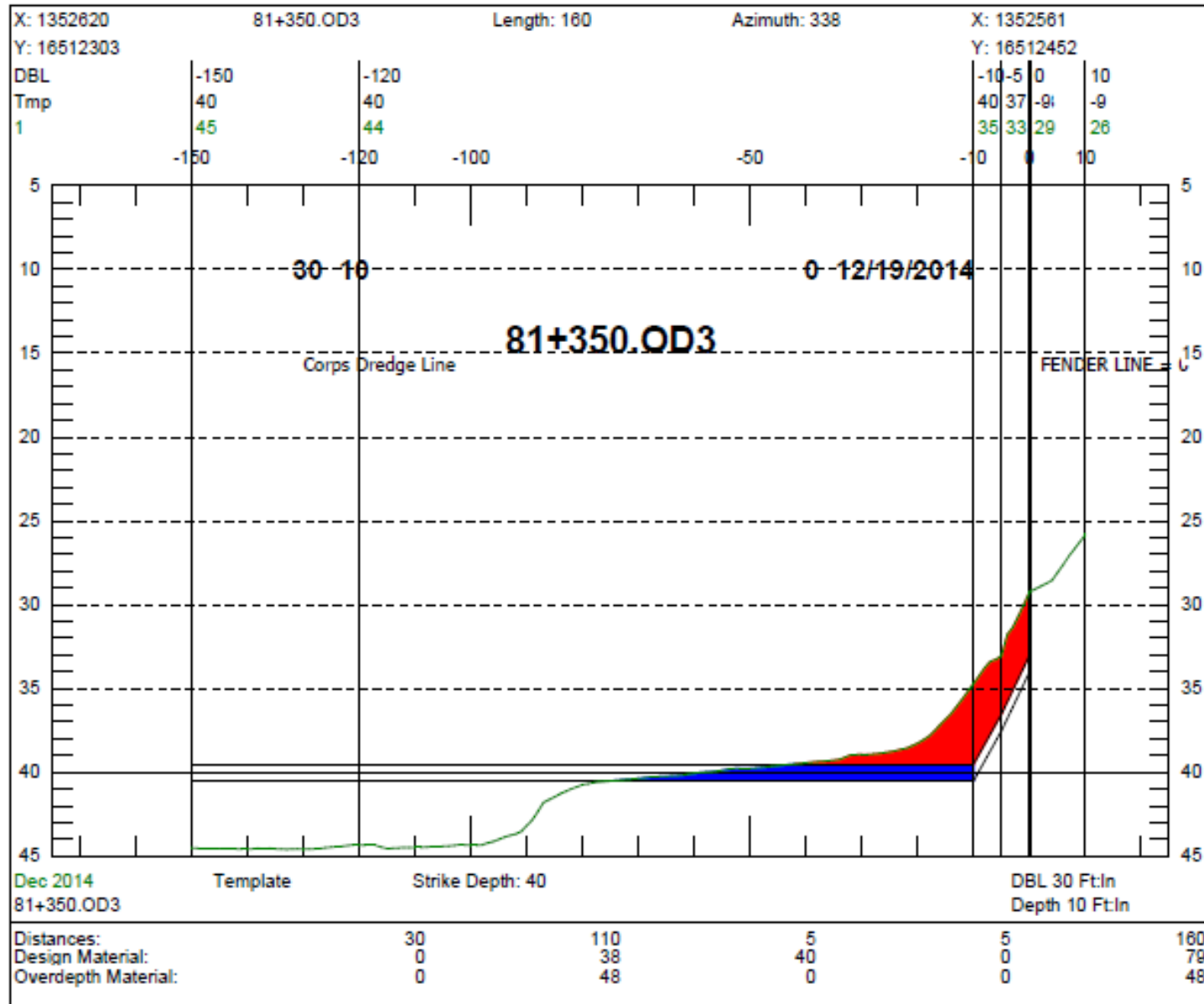
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 18 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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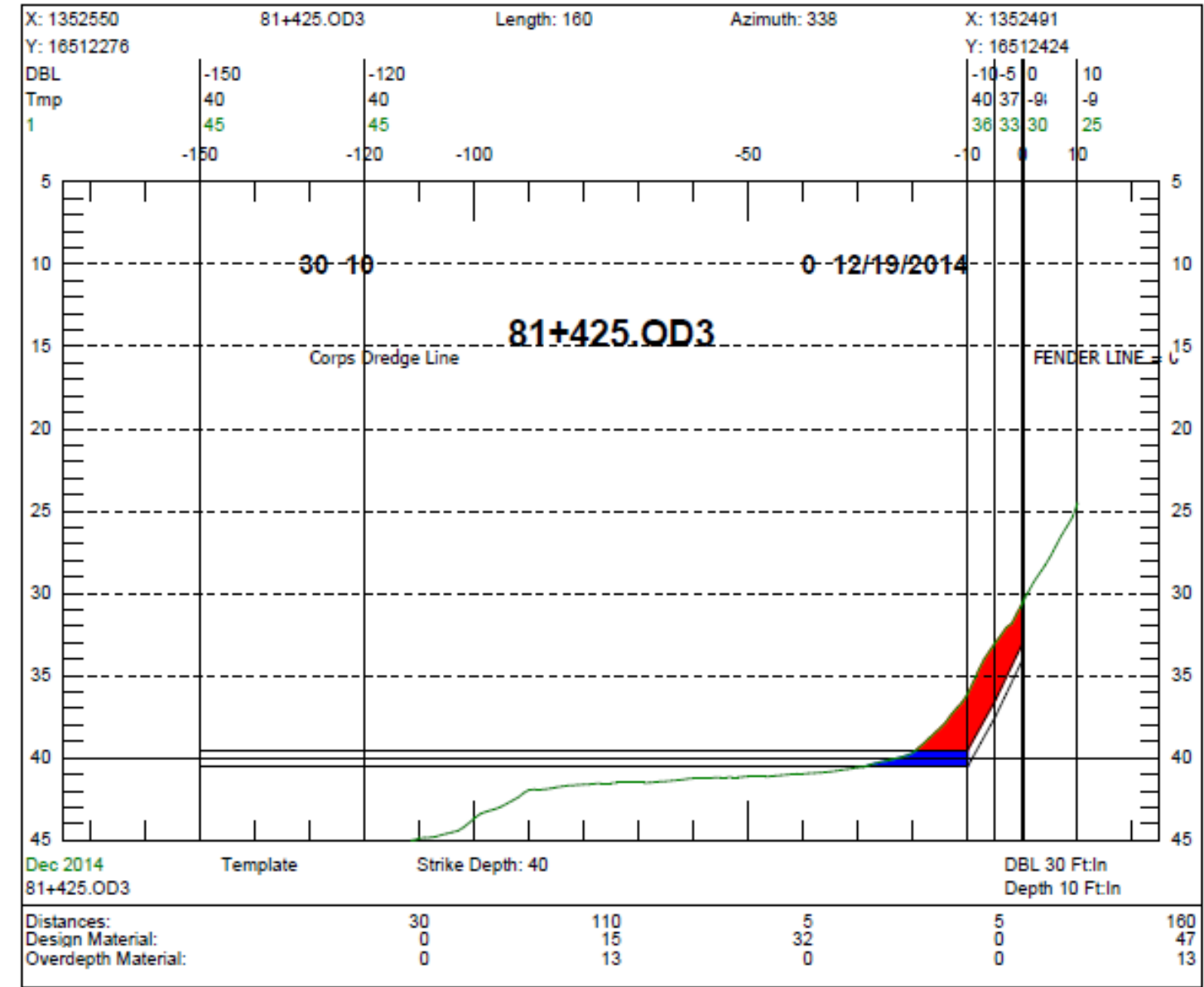
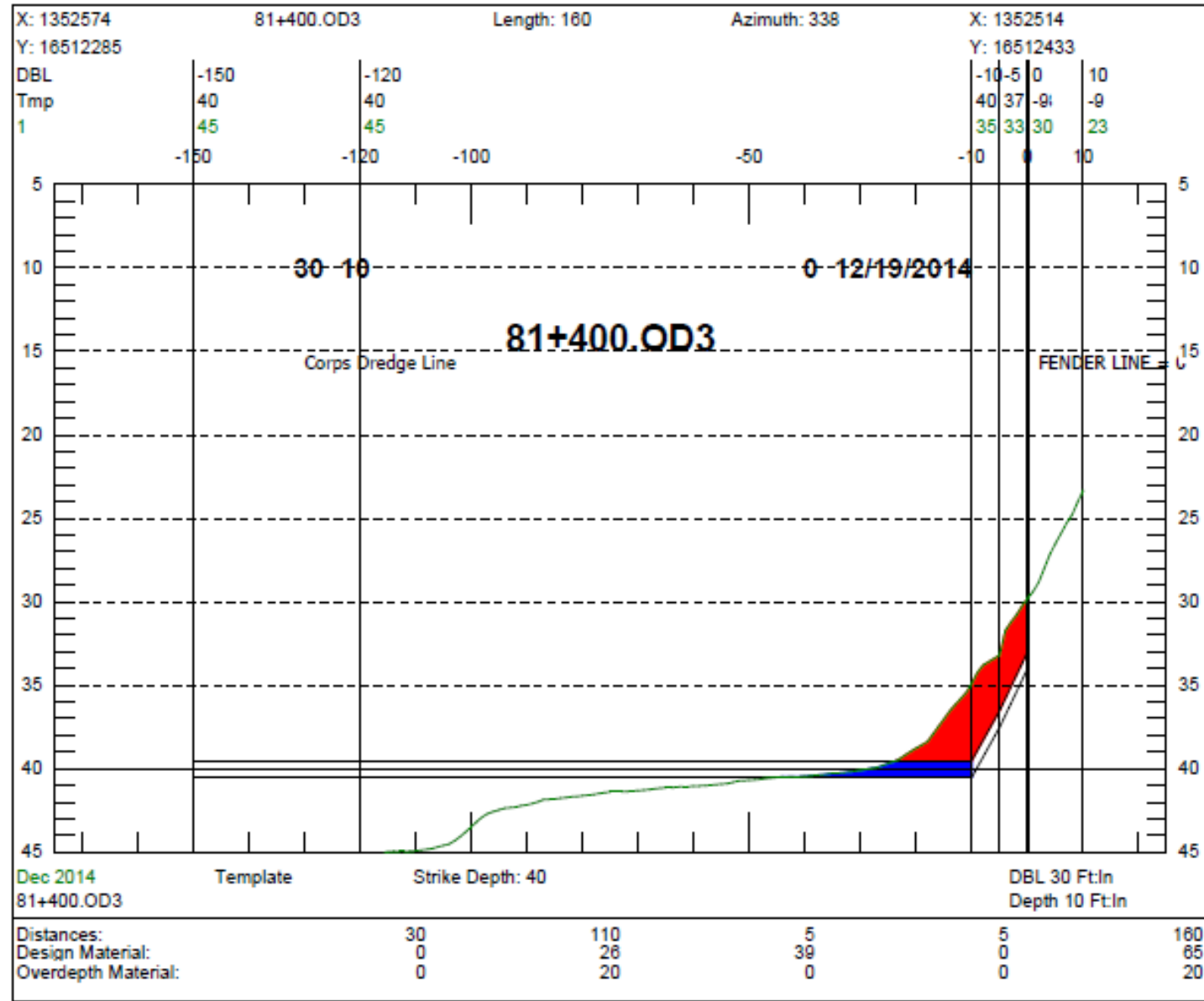
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



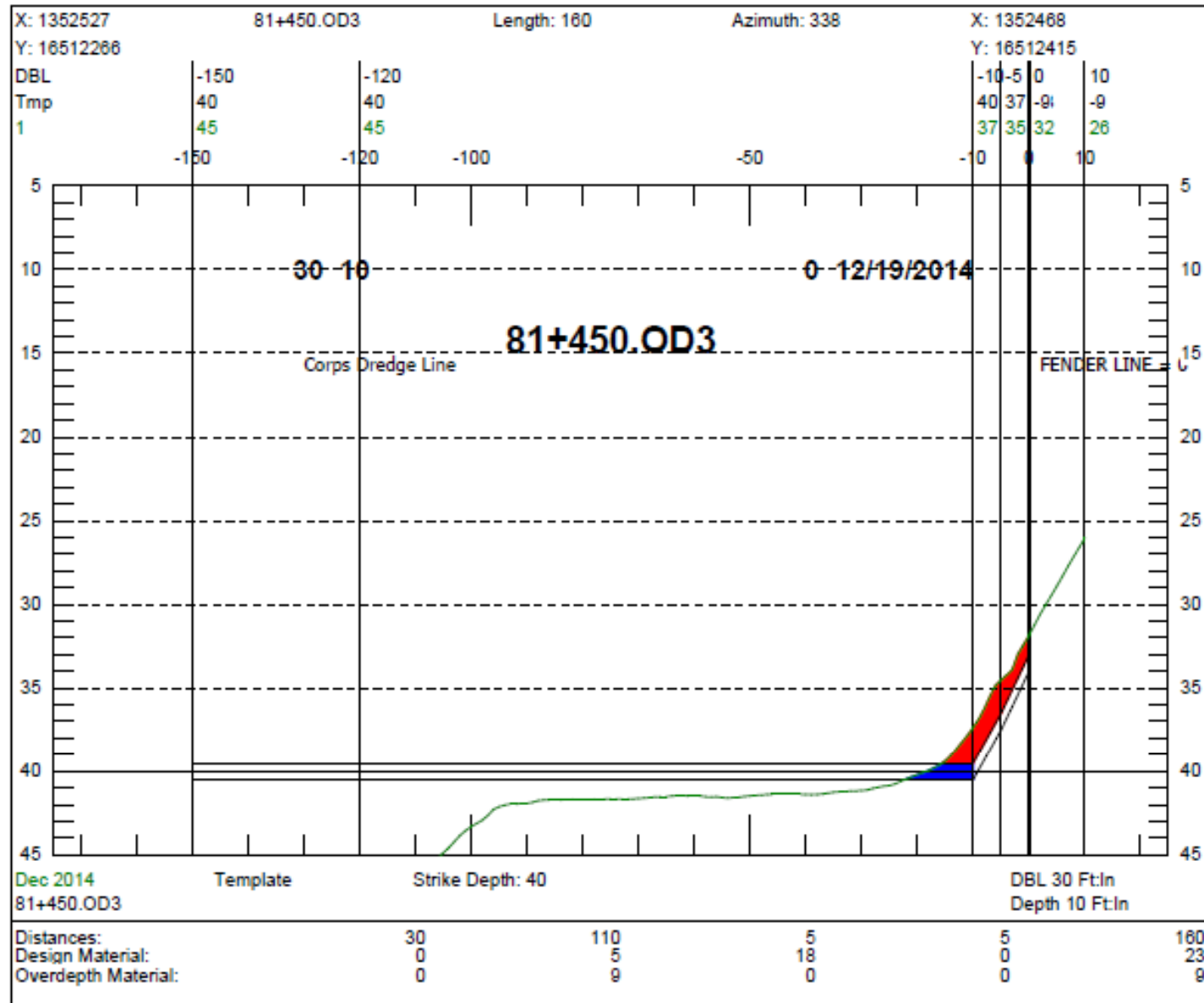
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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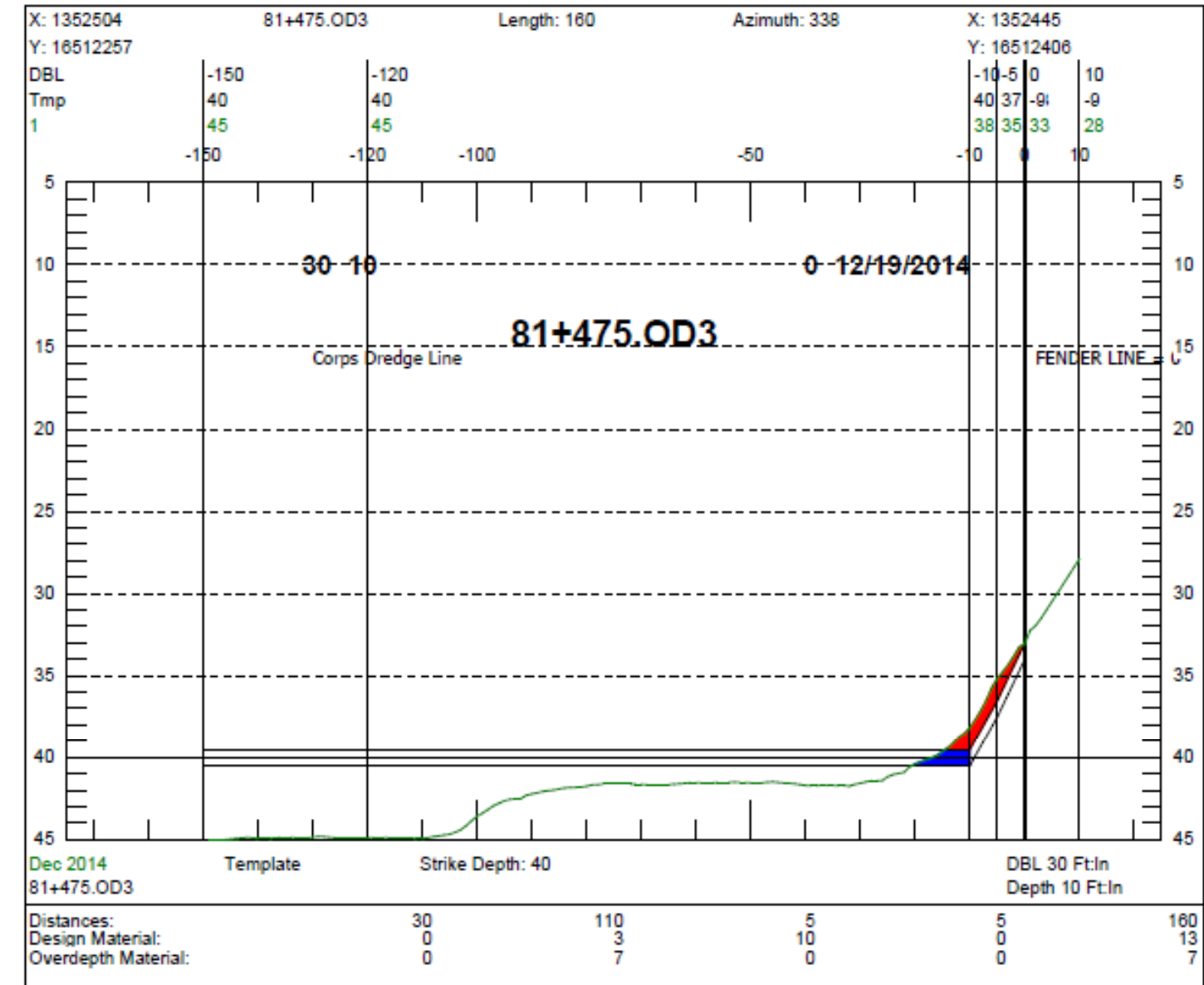


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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 24 Of 35	Dec 2014
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Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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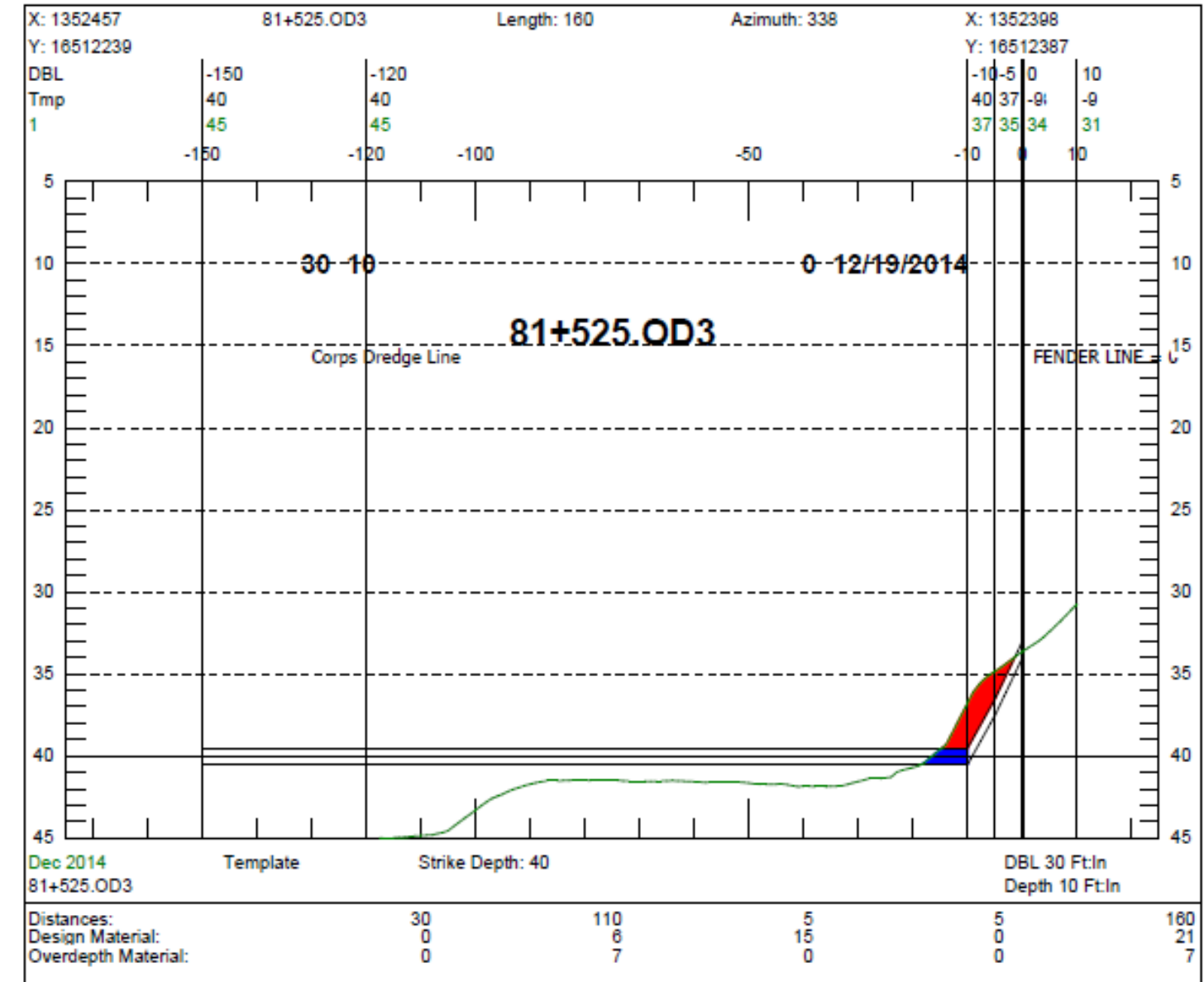
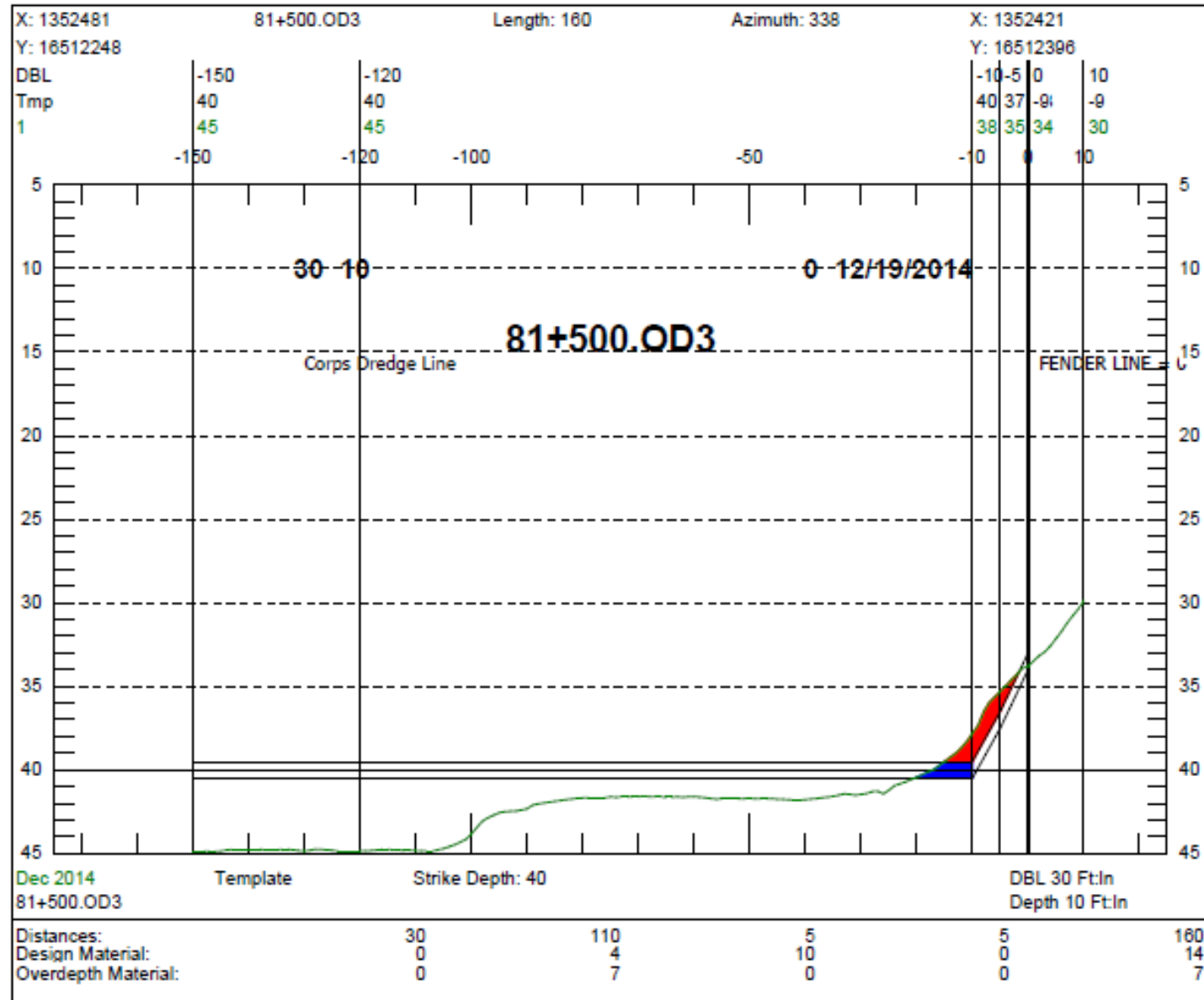


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Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



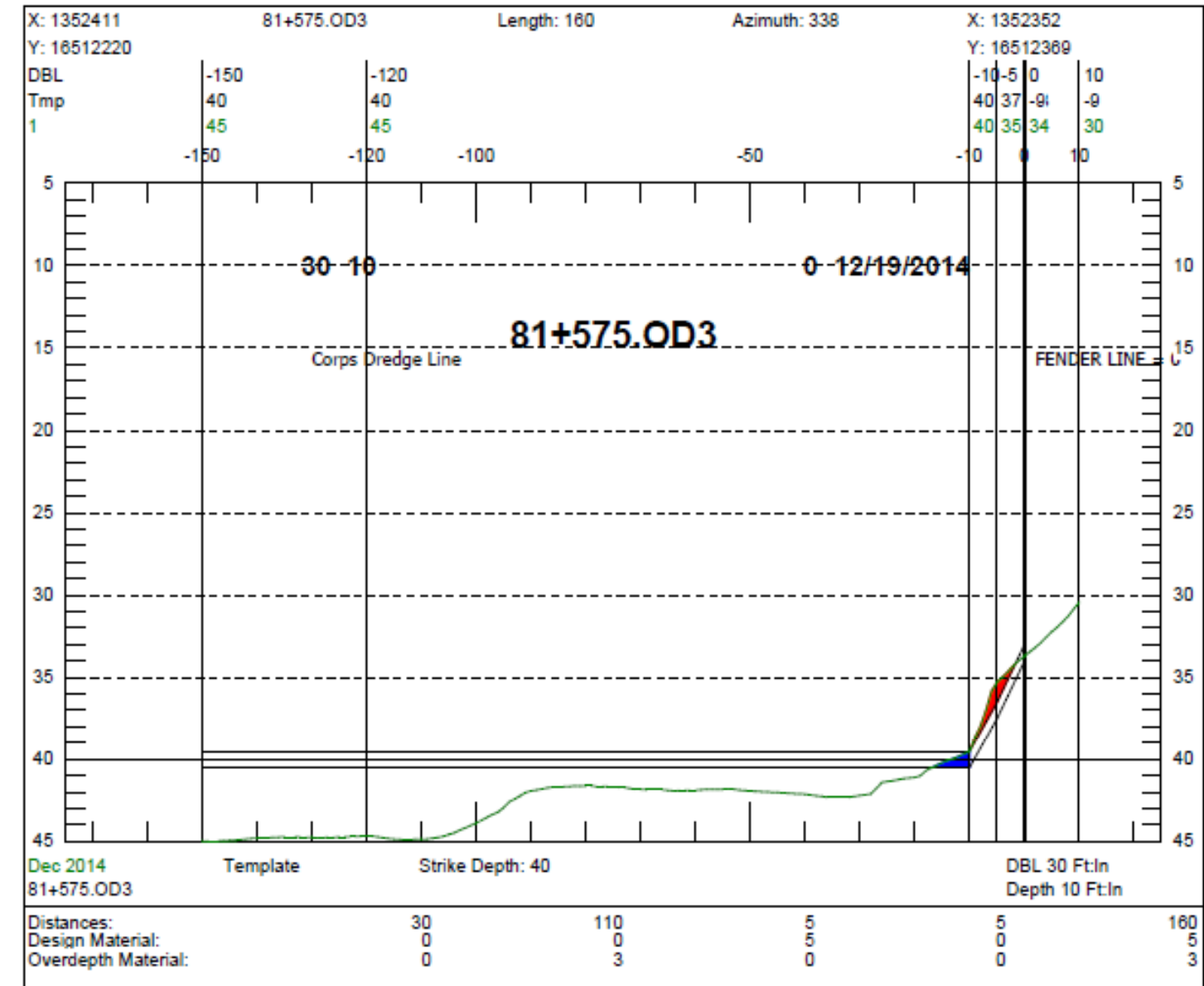
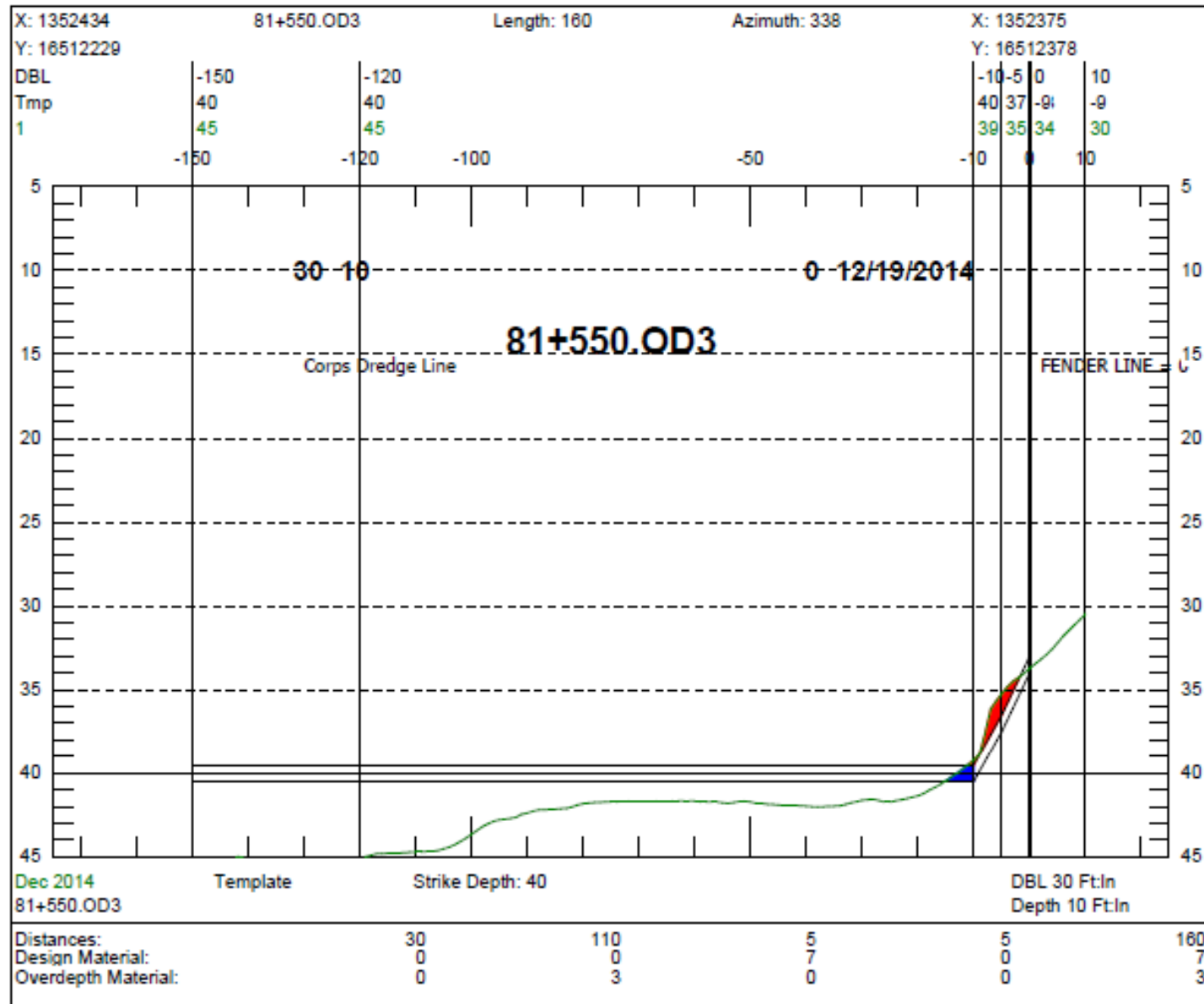
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	





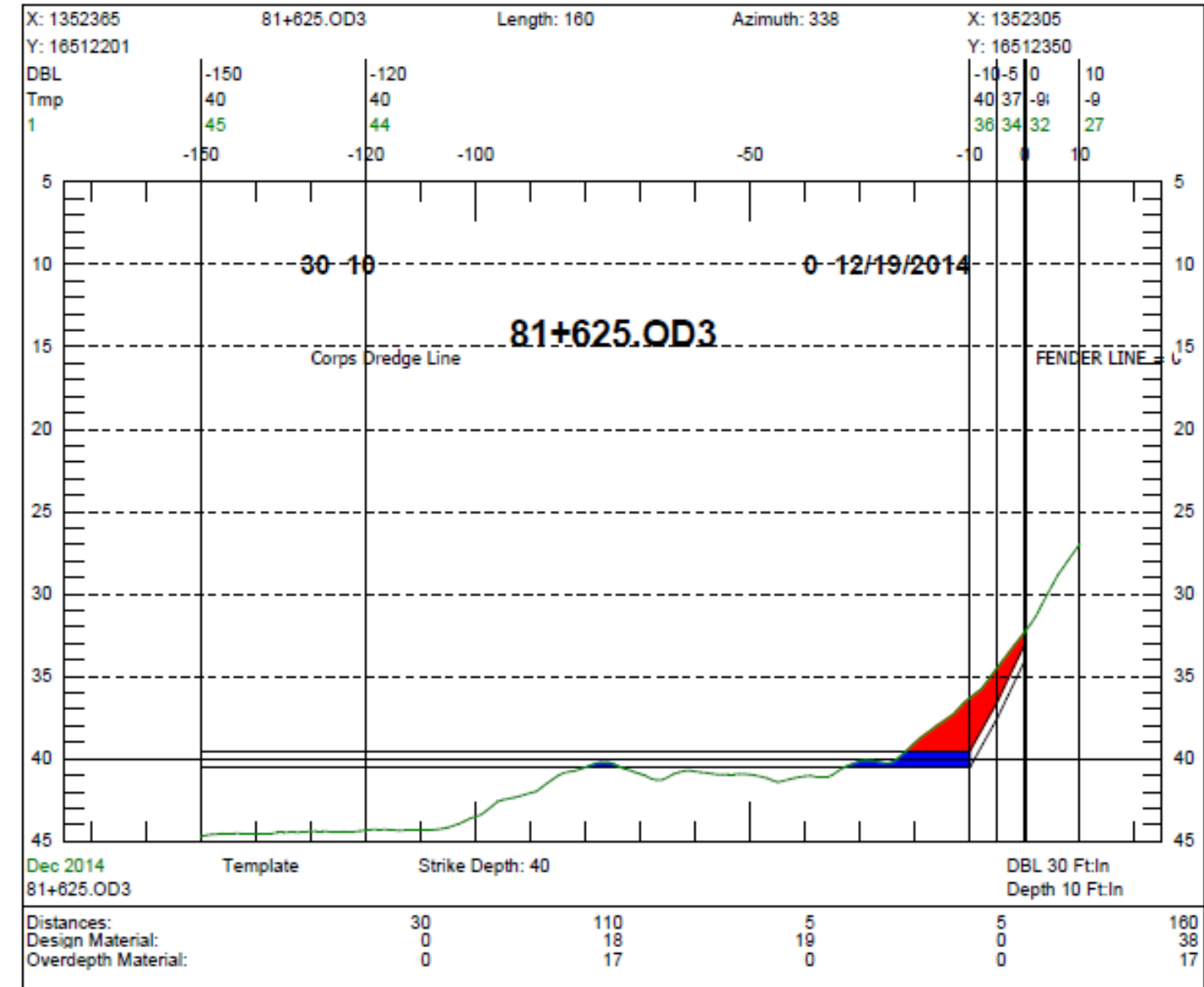
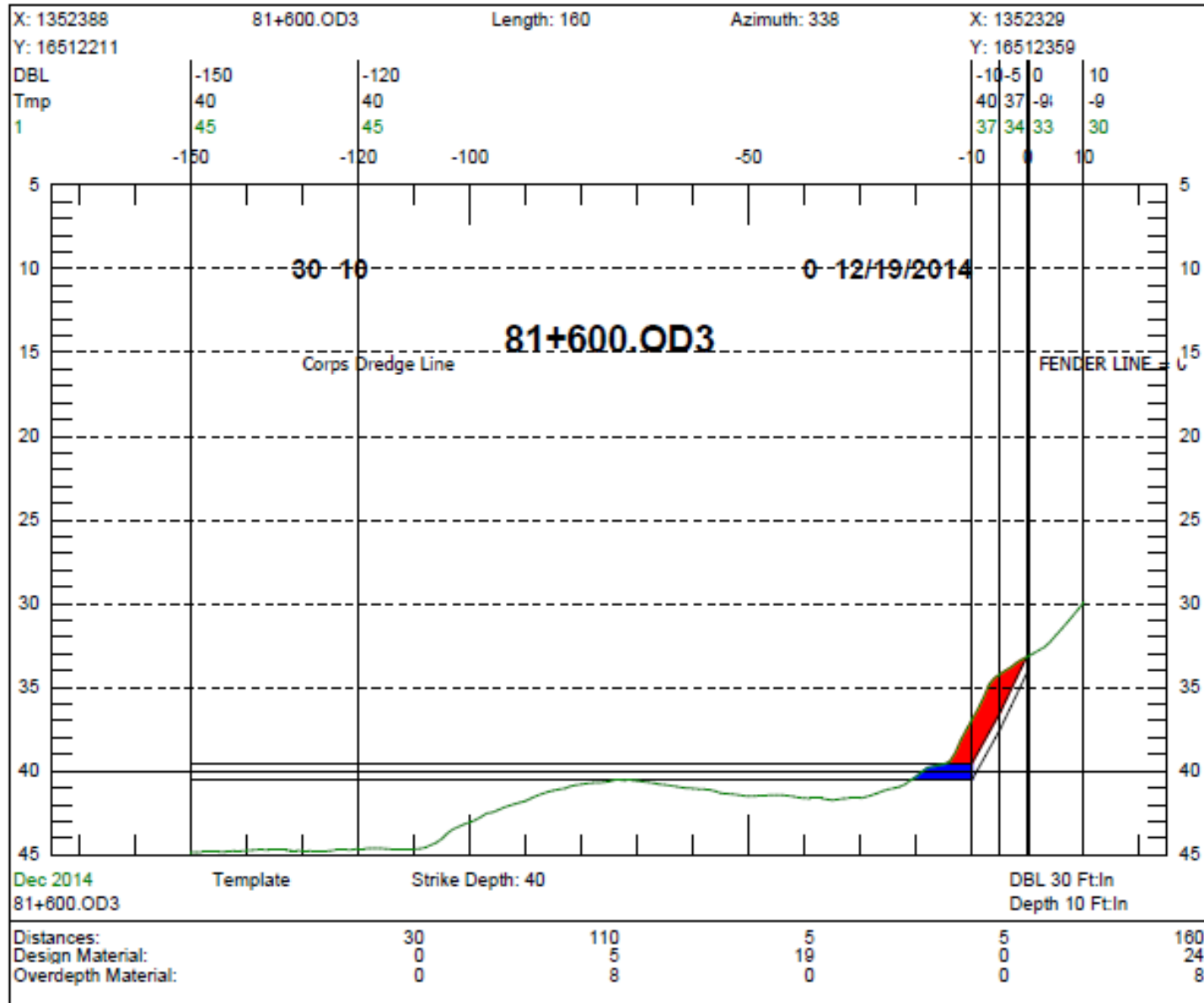
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
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Sheet 28 Of 35	Dec 2014
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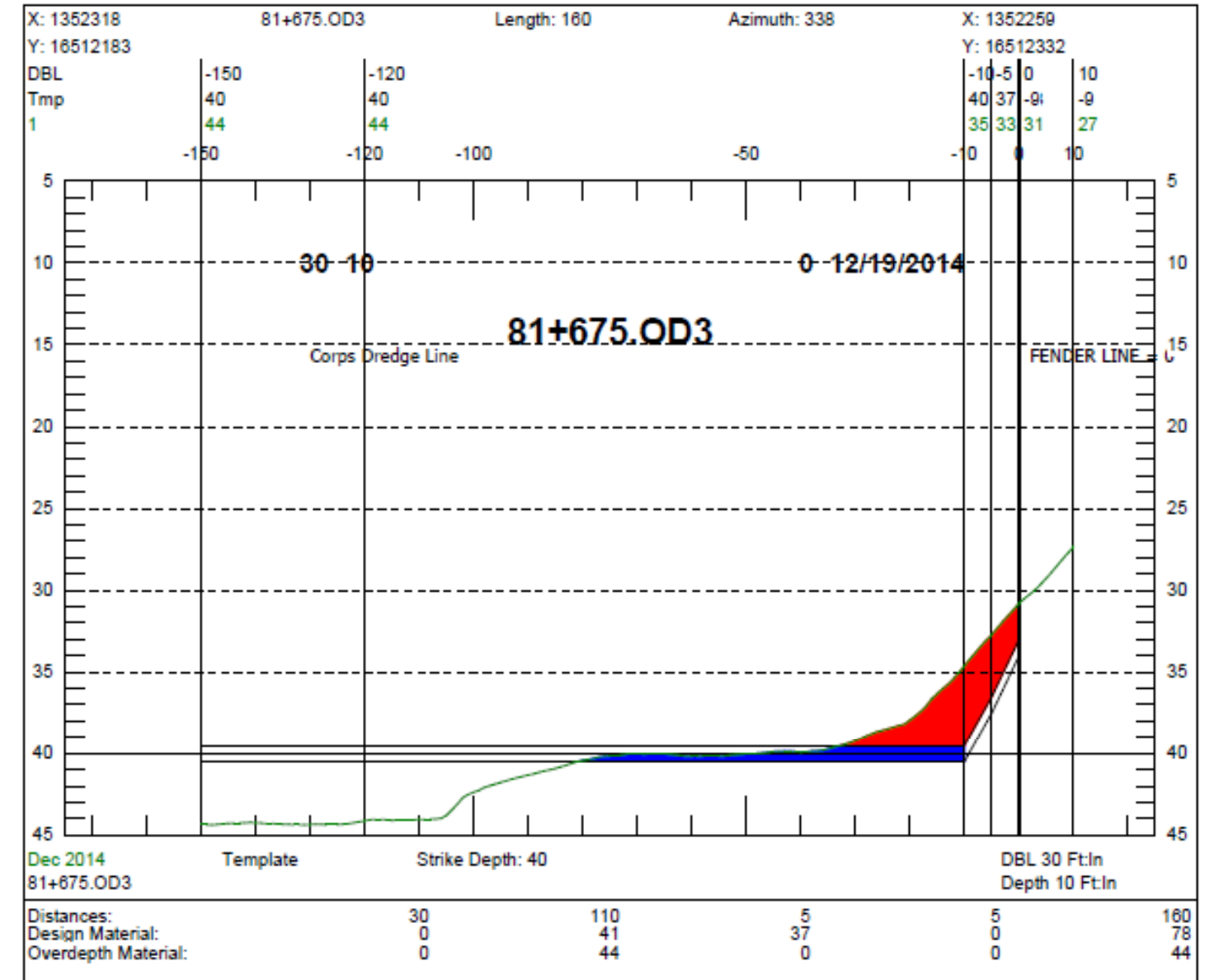
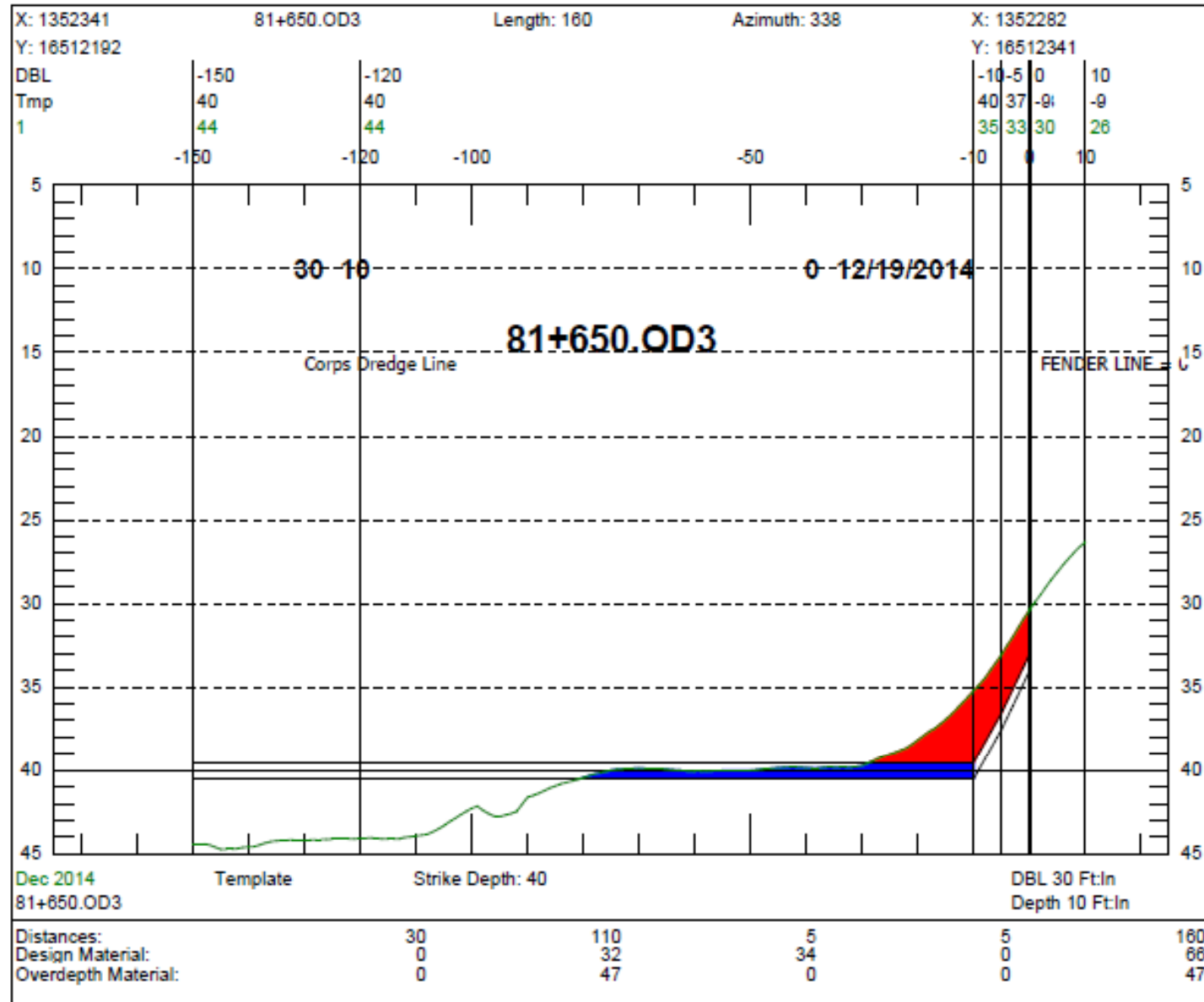
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 30 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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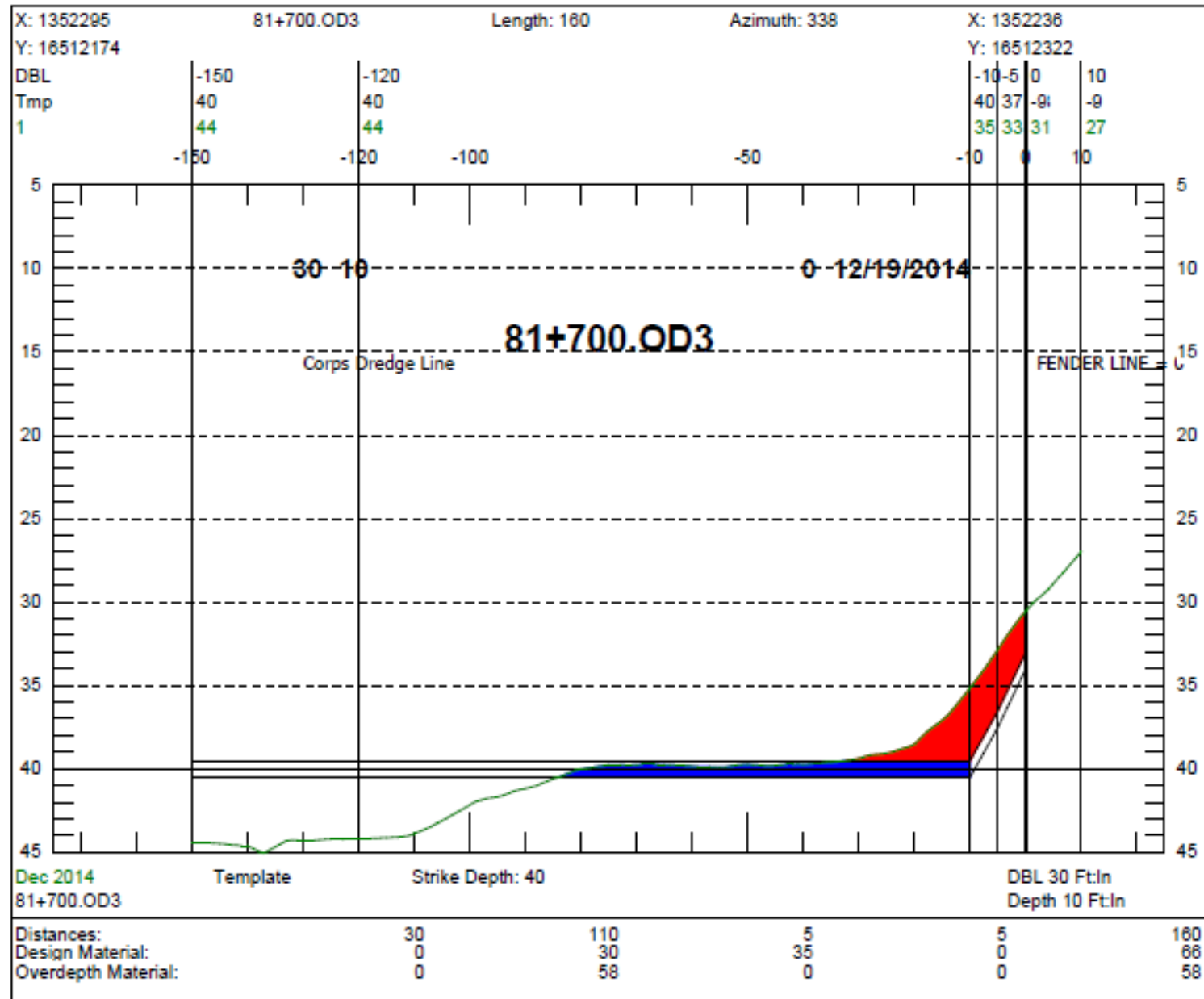
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Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 32 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
Date	12/19/2014
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Sheet 33 Of 35	Dec 2014
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Sheet 34 Of 35	Dec 2014
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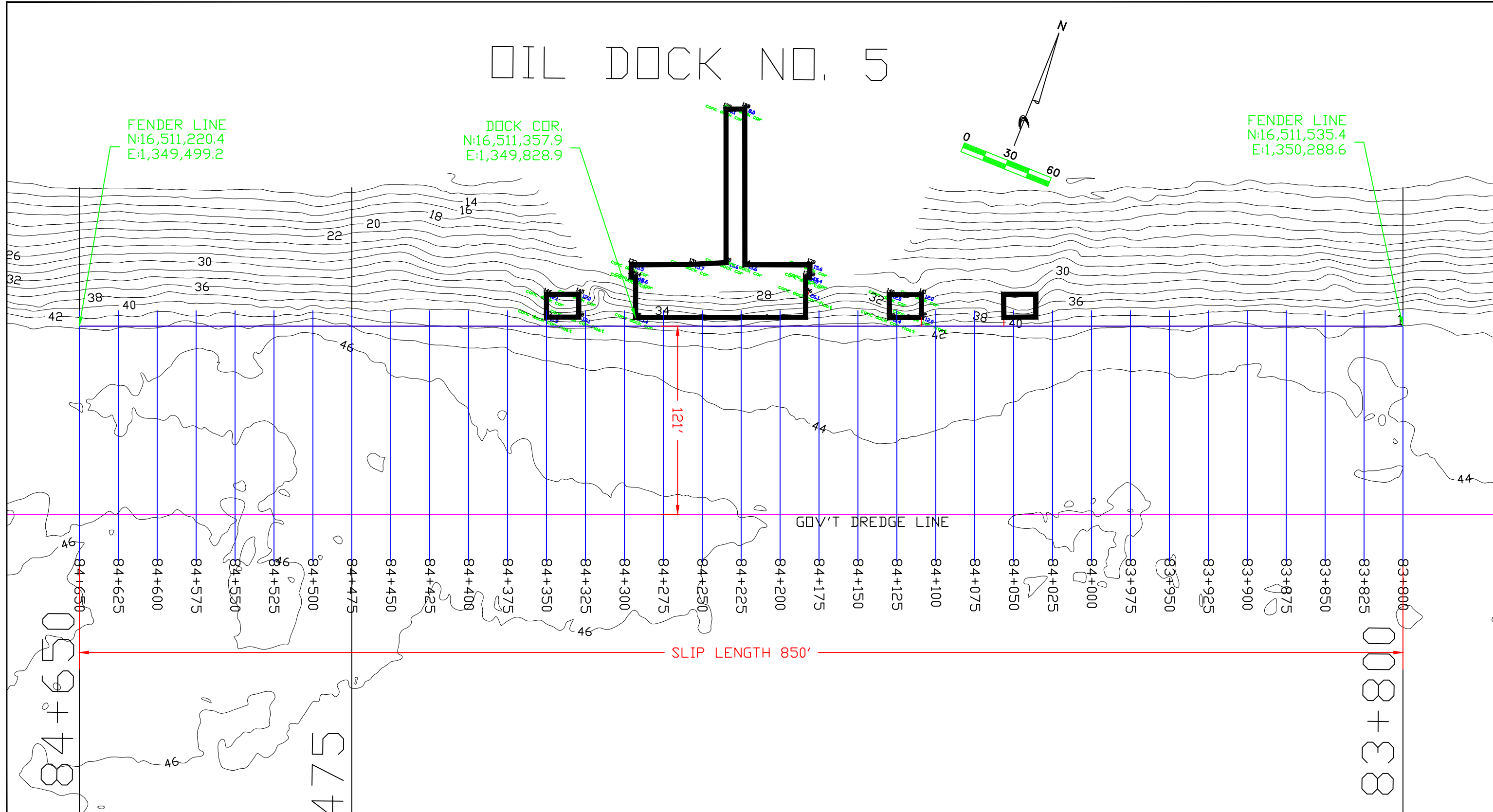


Sheet 35 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 3
Surveyor	Naismith Marine Services
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File	

**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**

**OIL DOCK 5**

# OIL DOCK NO. 5

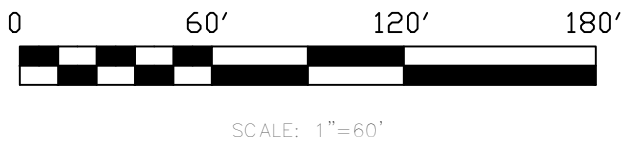
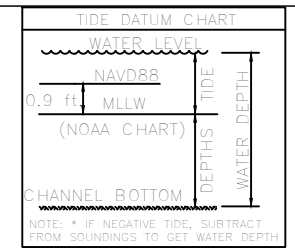


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E:1,349,499.2

DOCK COR.  
N:16,511,357.9  
E:1,349,828.9

FENDER LINE  
N:16,511,535.4  
E:1,350,288.6

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 REFERENCE MONUMENT "535 R/L 1948 89+679.68"  
 N: 105,292.01  
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 ELEV: 14.7' MLLW (13.8' NAVD88)



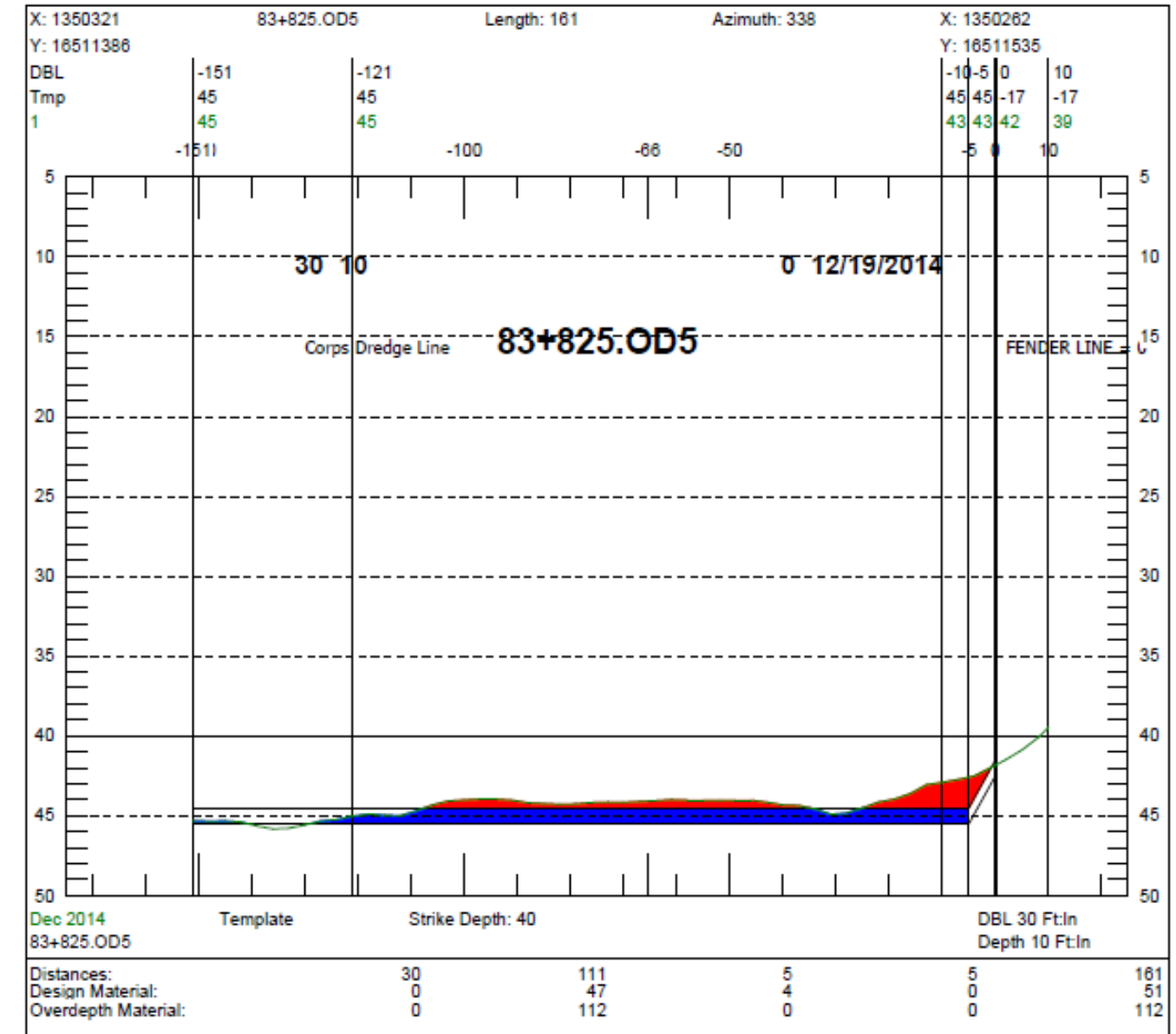
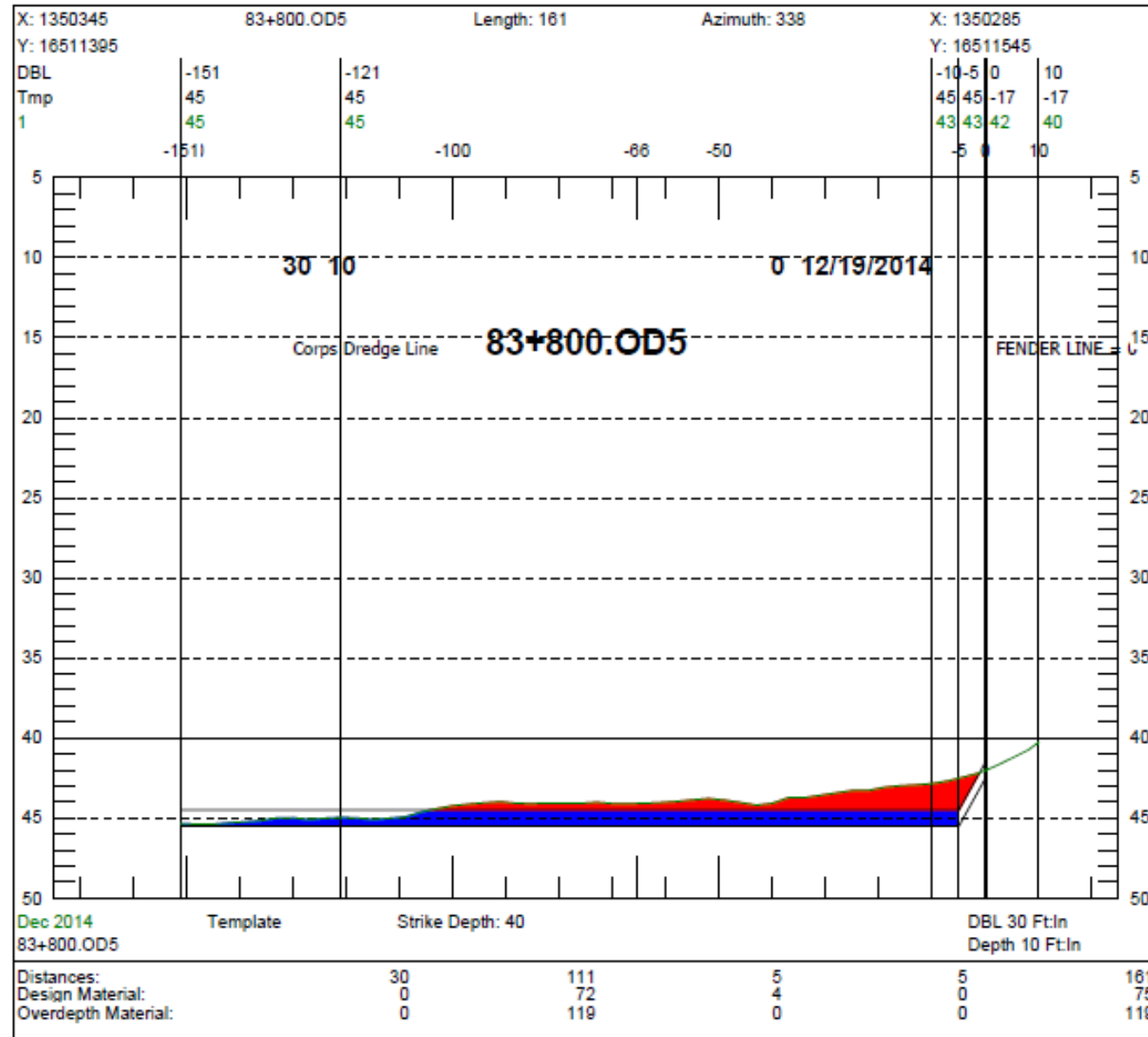
**Naismith Marine**  
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NO.	DATE	REVISION

PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 OIL DOCK NO. 5  
 OIL DOCK 5  
 PLAN SHEET 1 OF 1  
 JUN. 2015

SCALE: NOTED  
 DWN. BY: JMN

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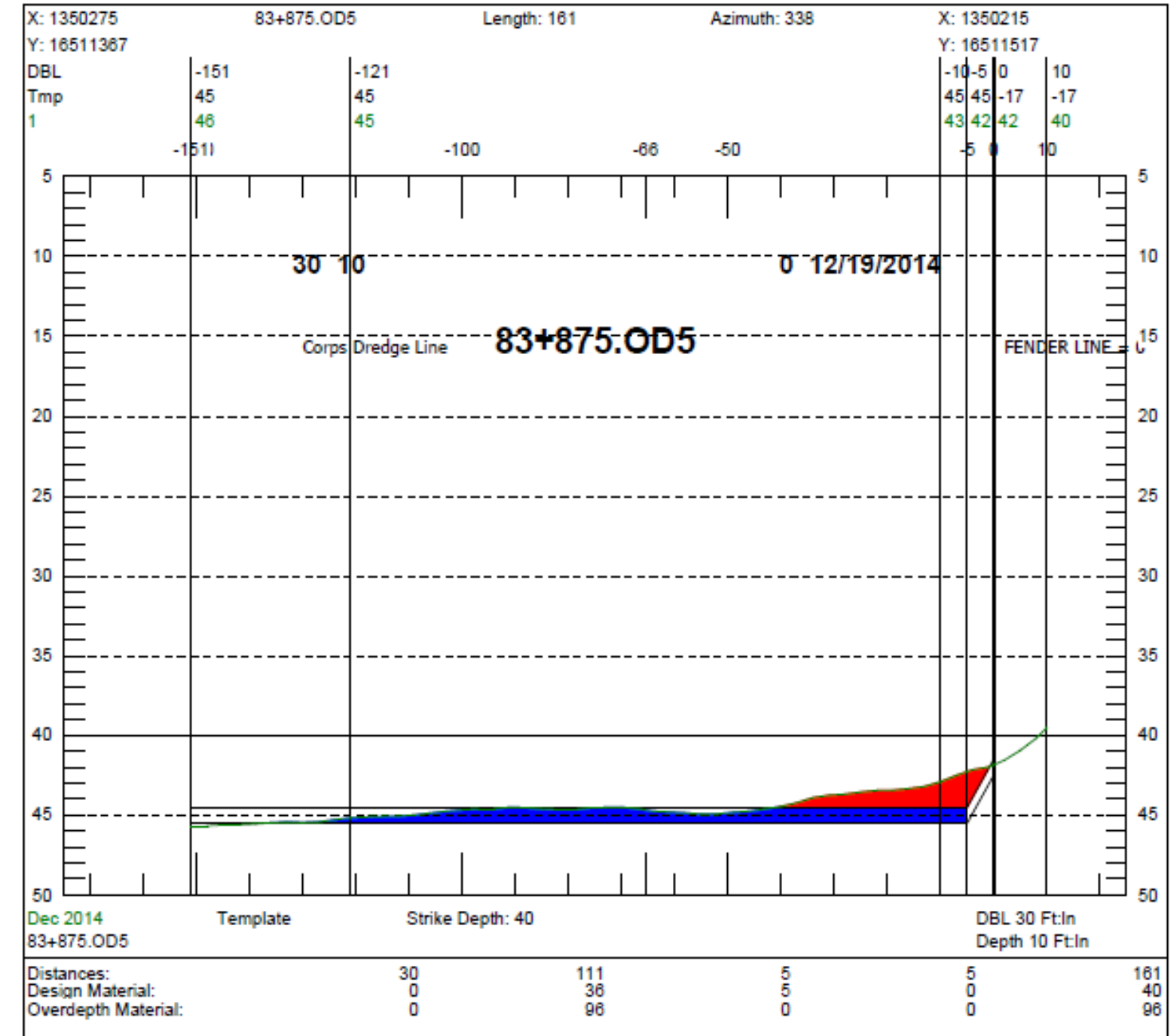
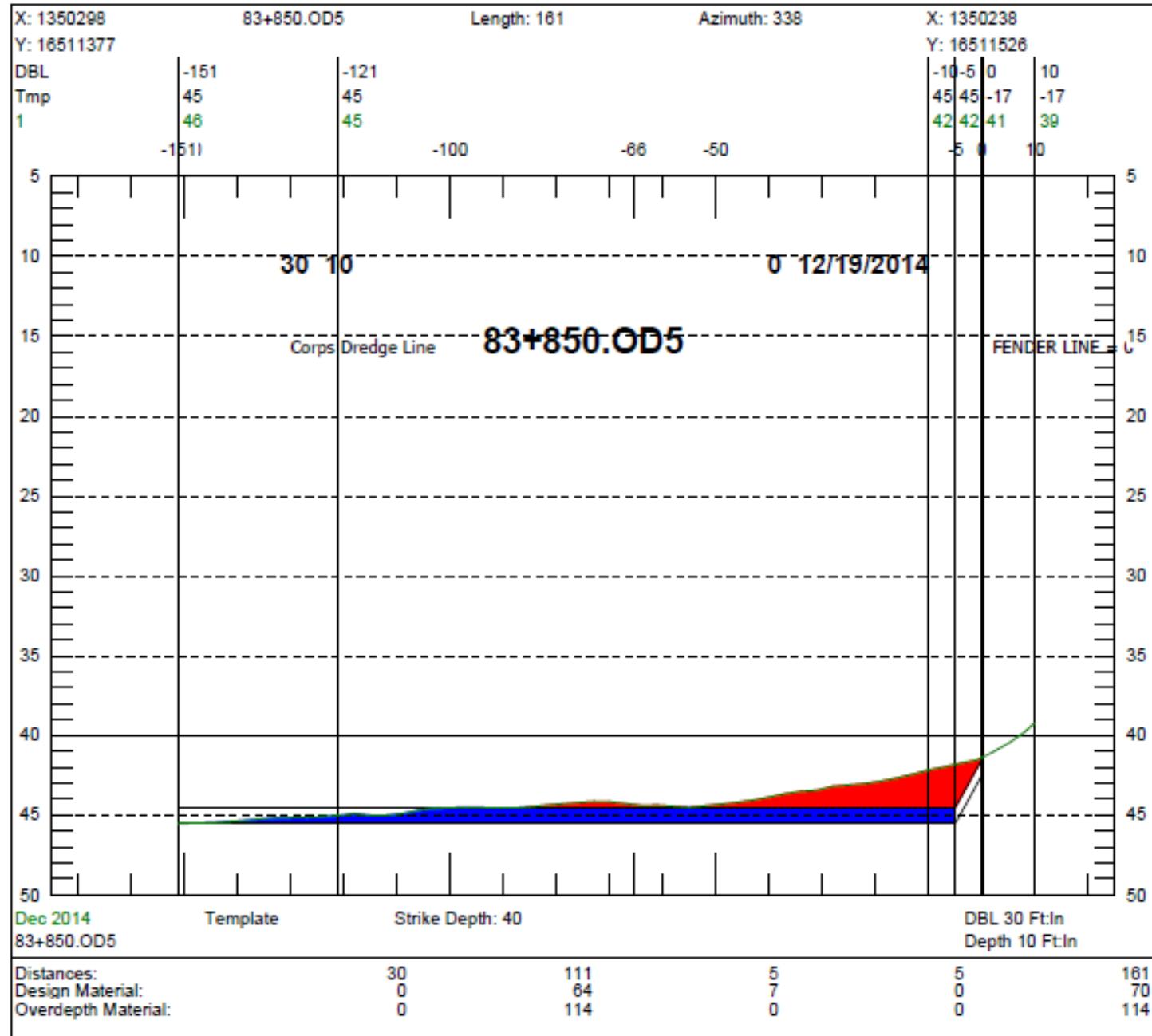


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Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



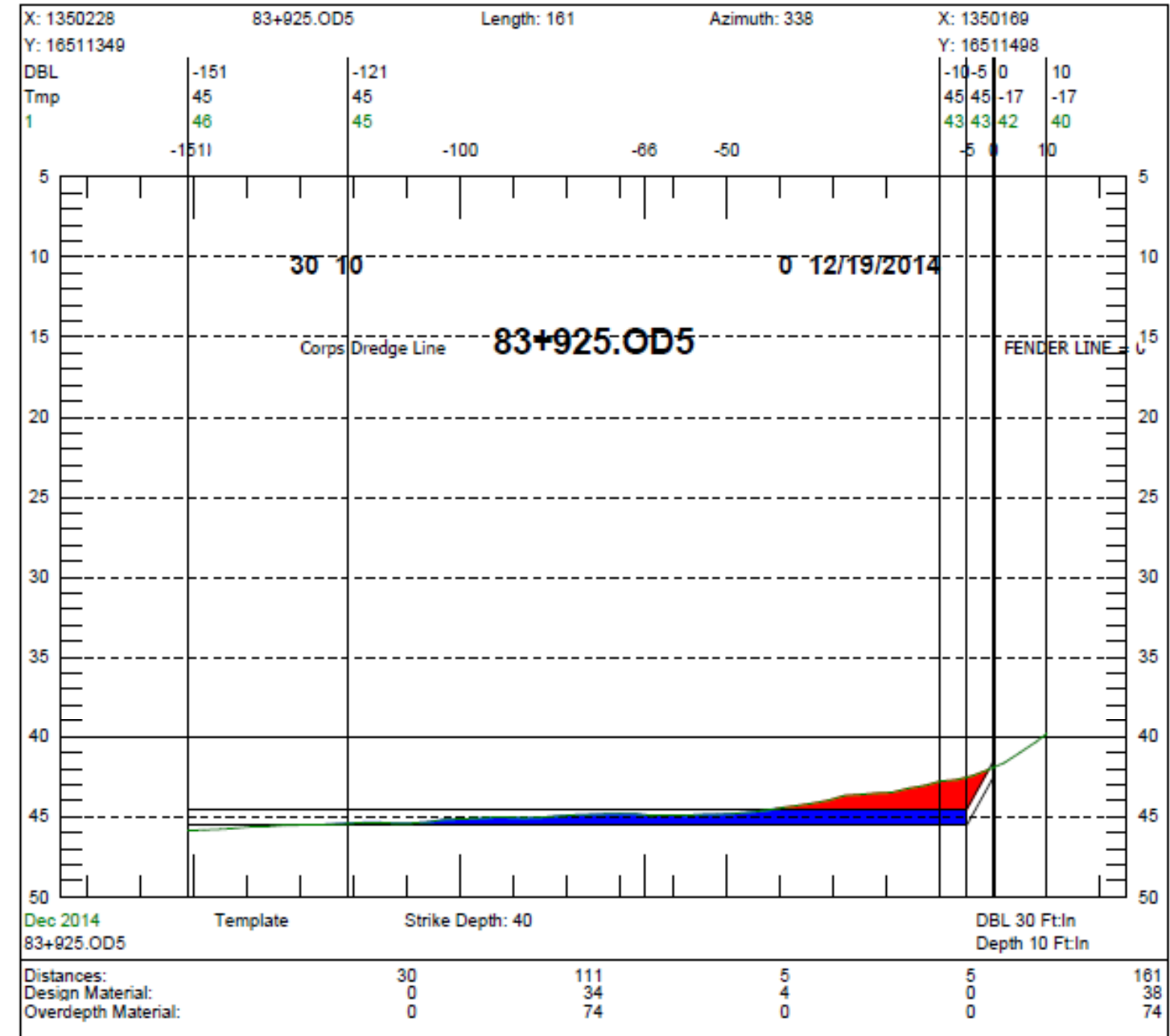
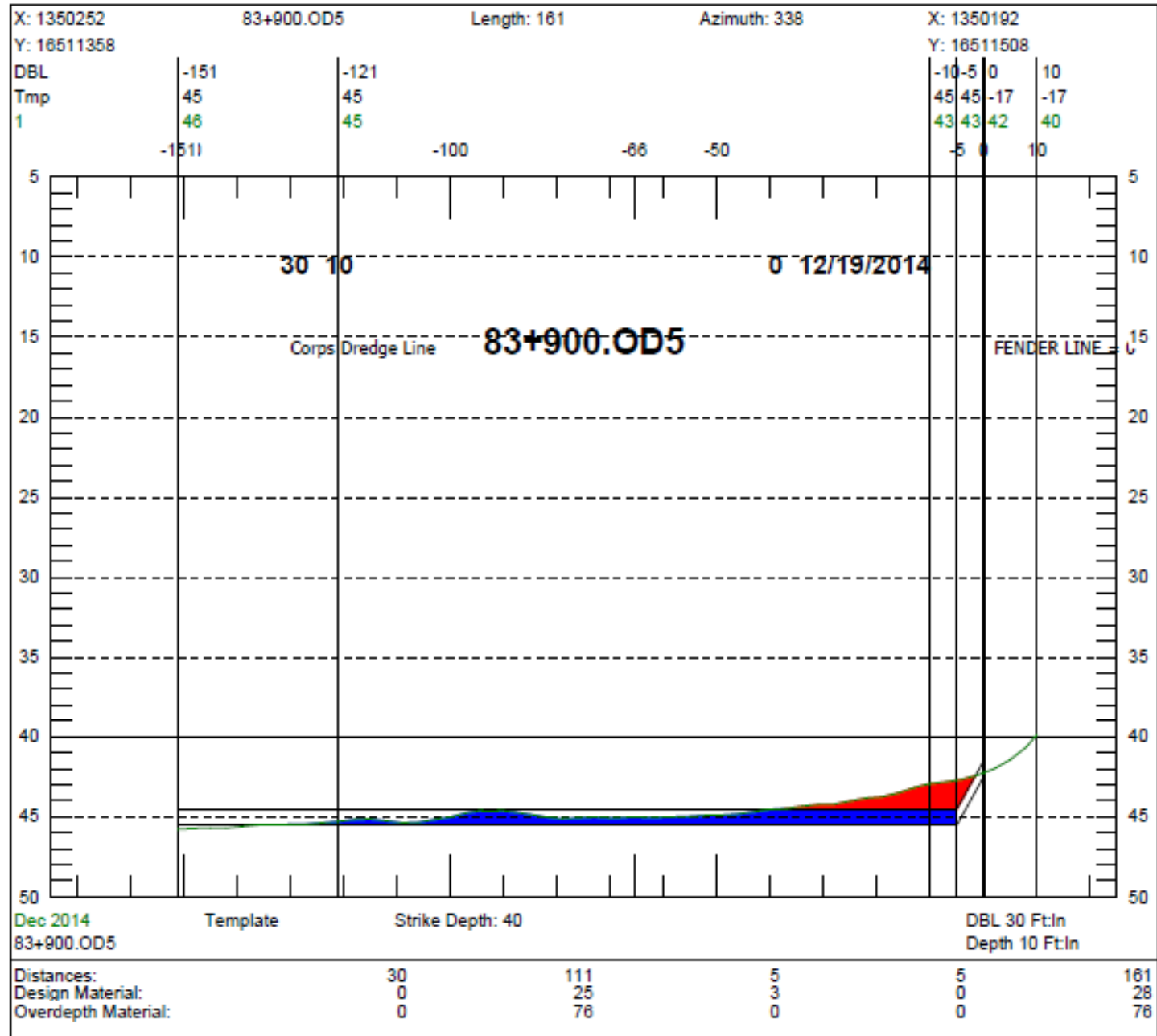
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Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
Date	12/19/2014
File	





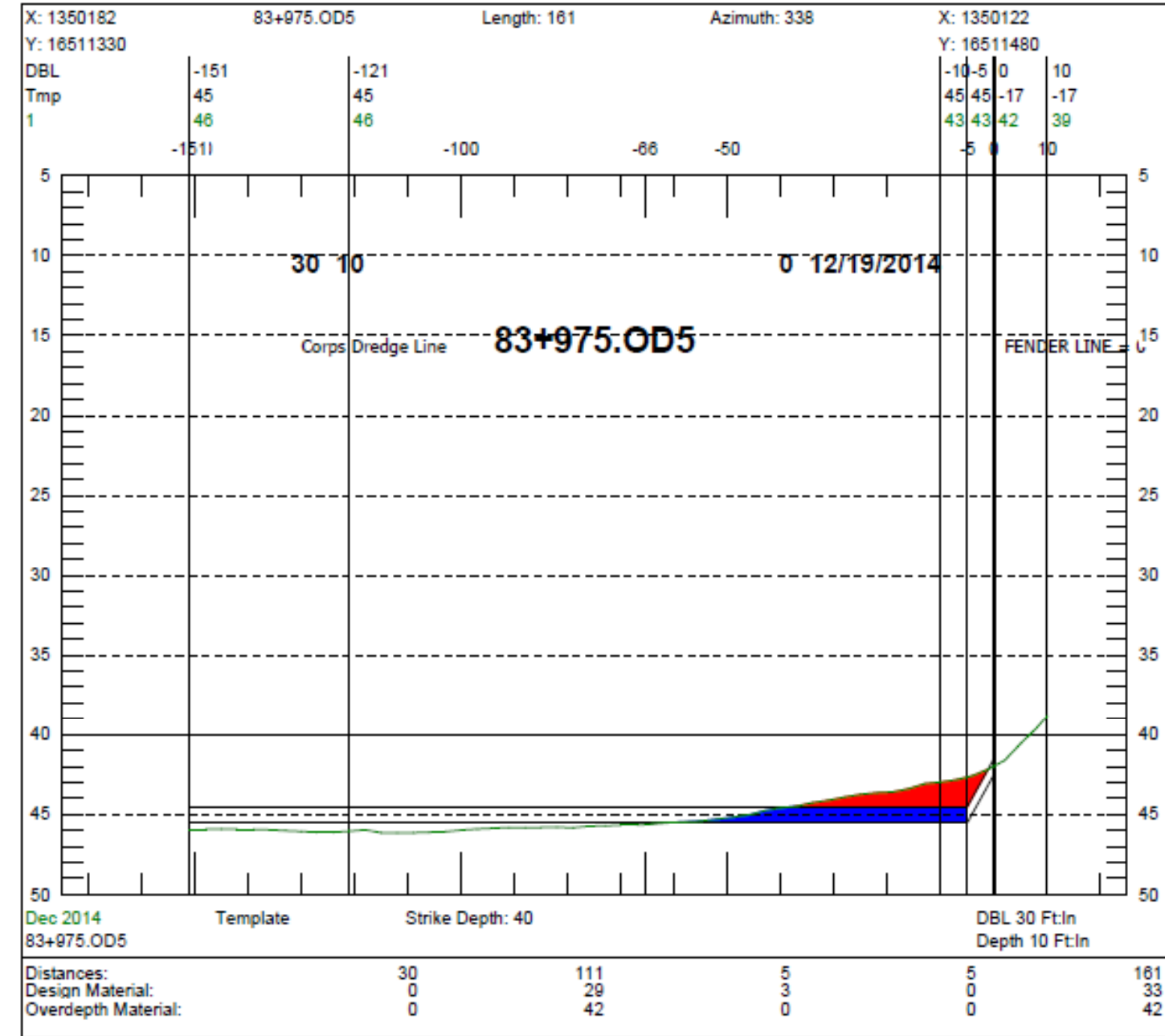
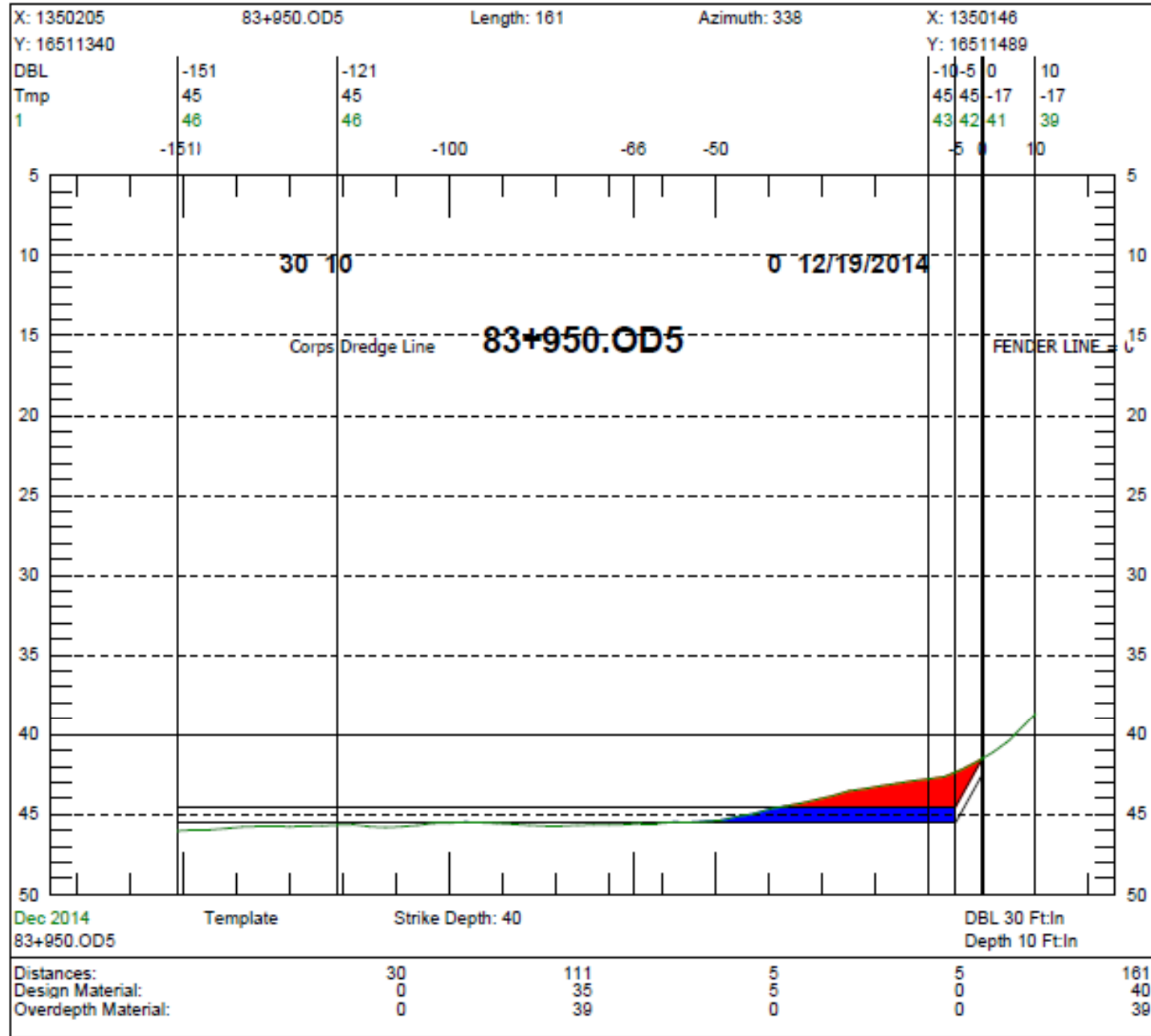
Sheet 3 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 4 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
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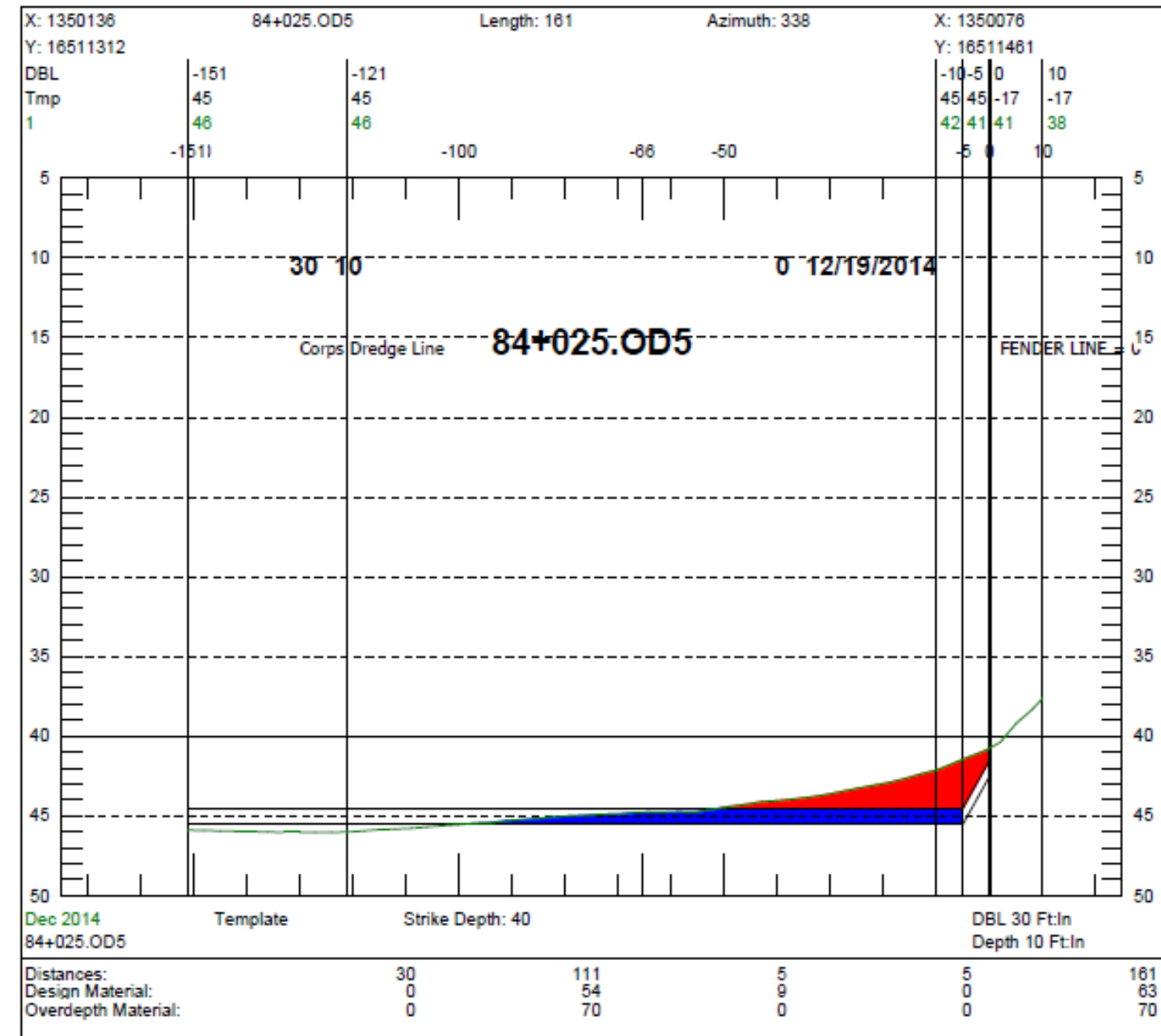
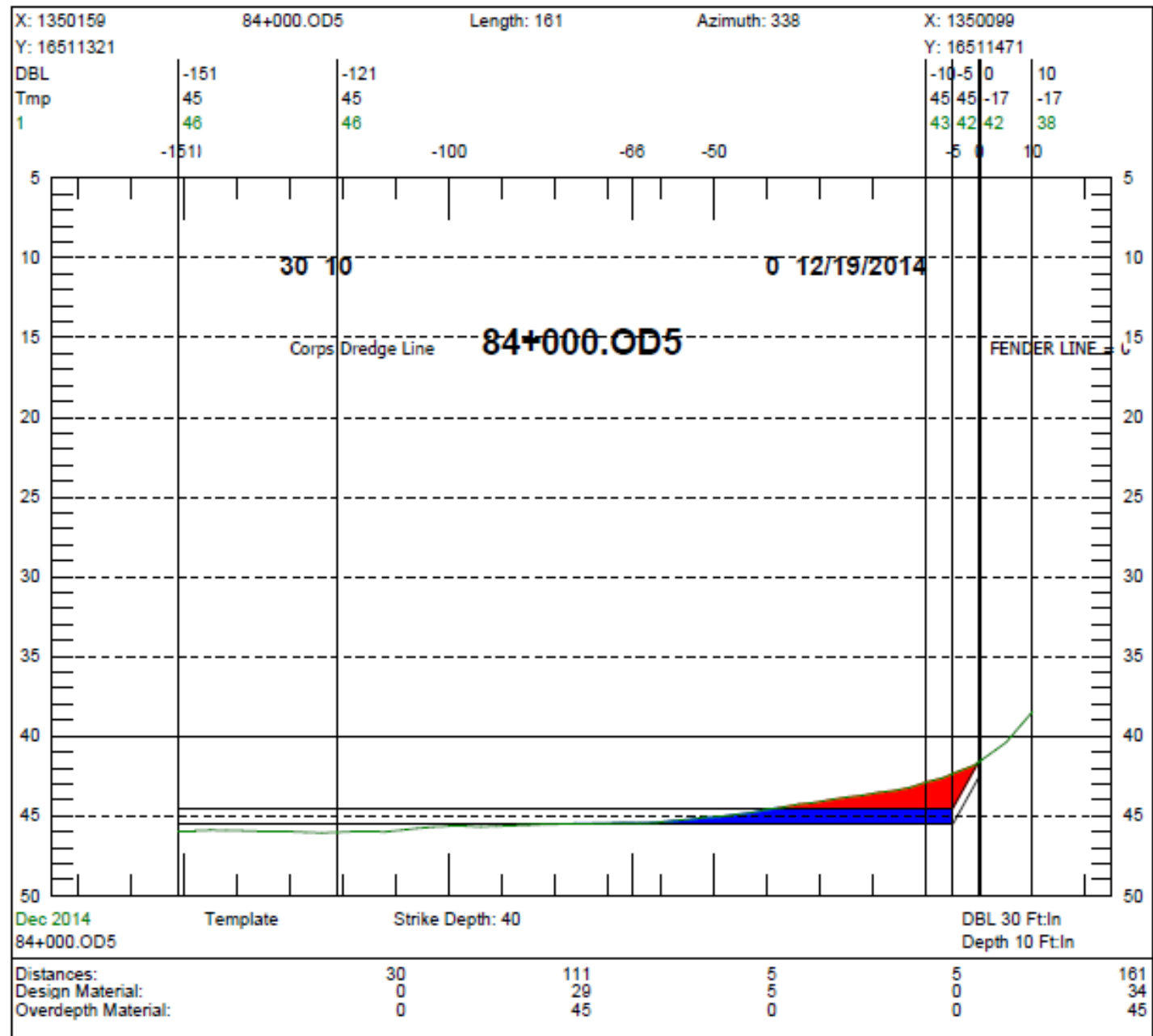
Sheet 5 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
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File	

Sheet 6 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
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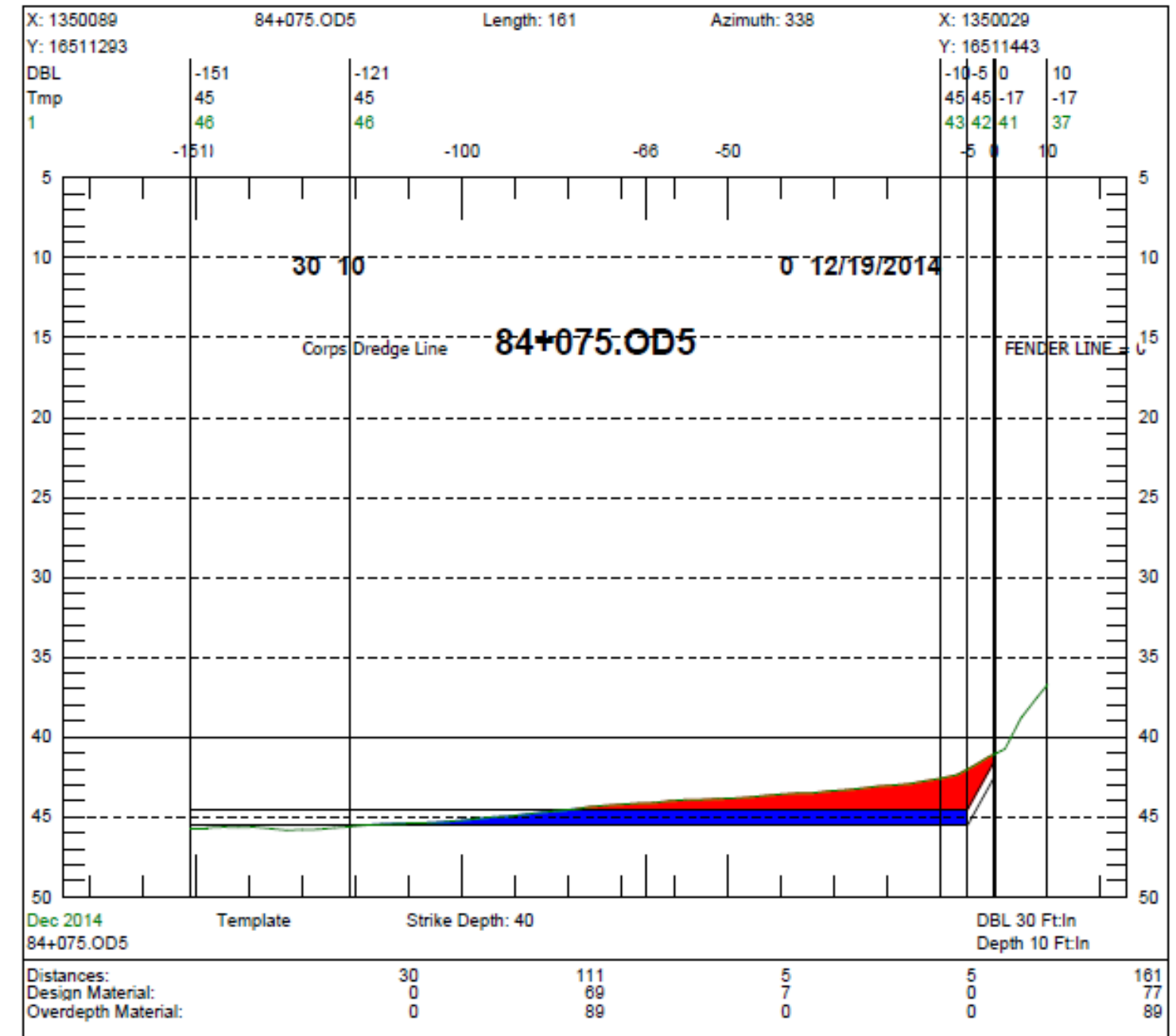
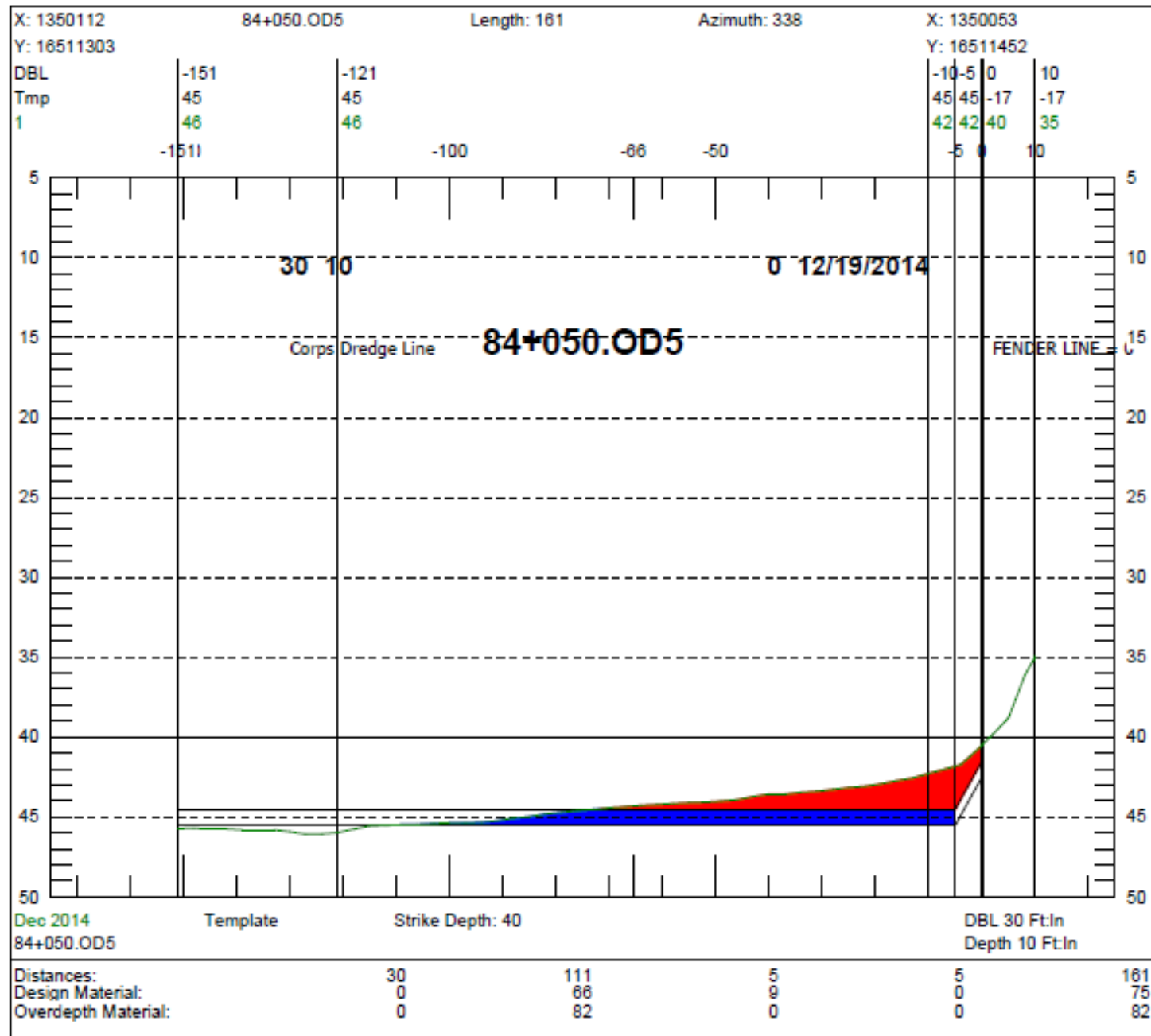
Sheet 7 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
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Sheet 8 Of 35	Dec 2014
Project	Port of Brownsville
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Area	Oil Dock 5
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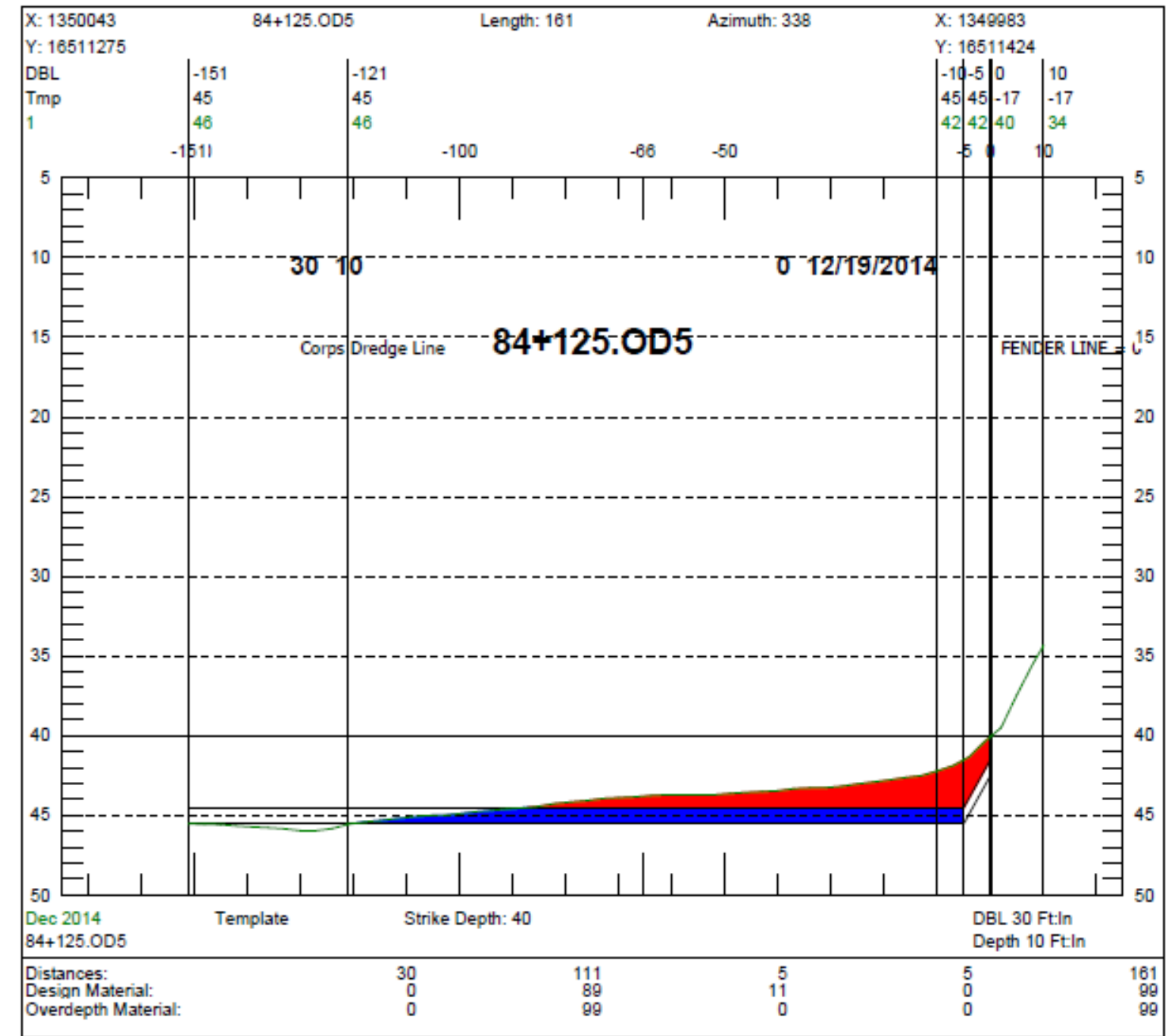
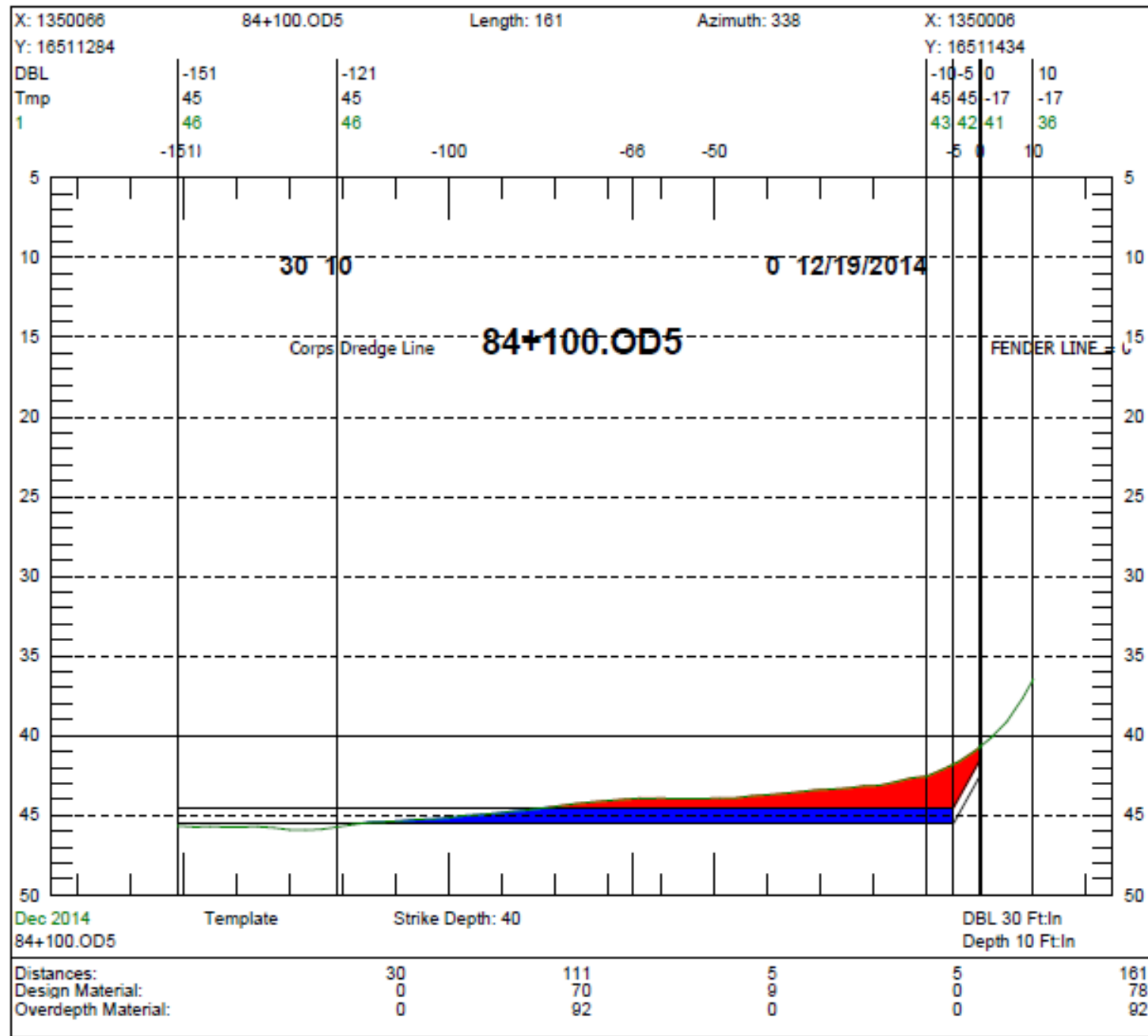
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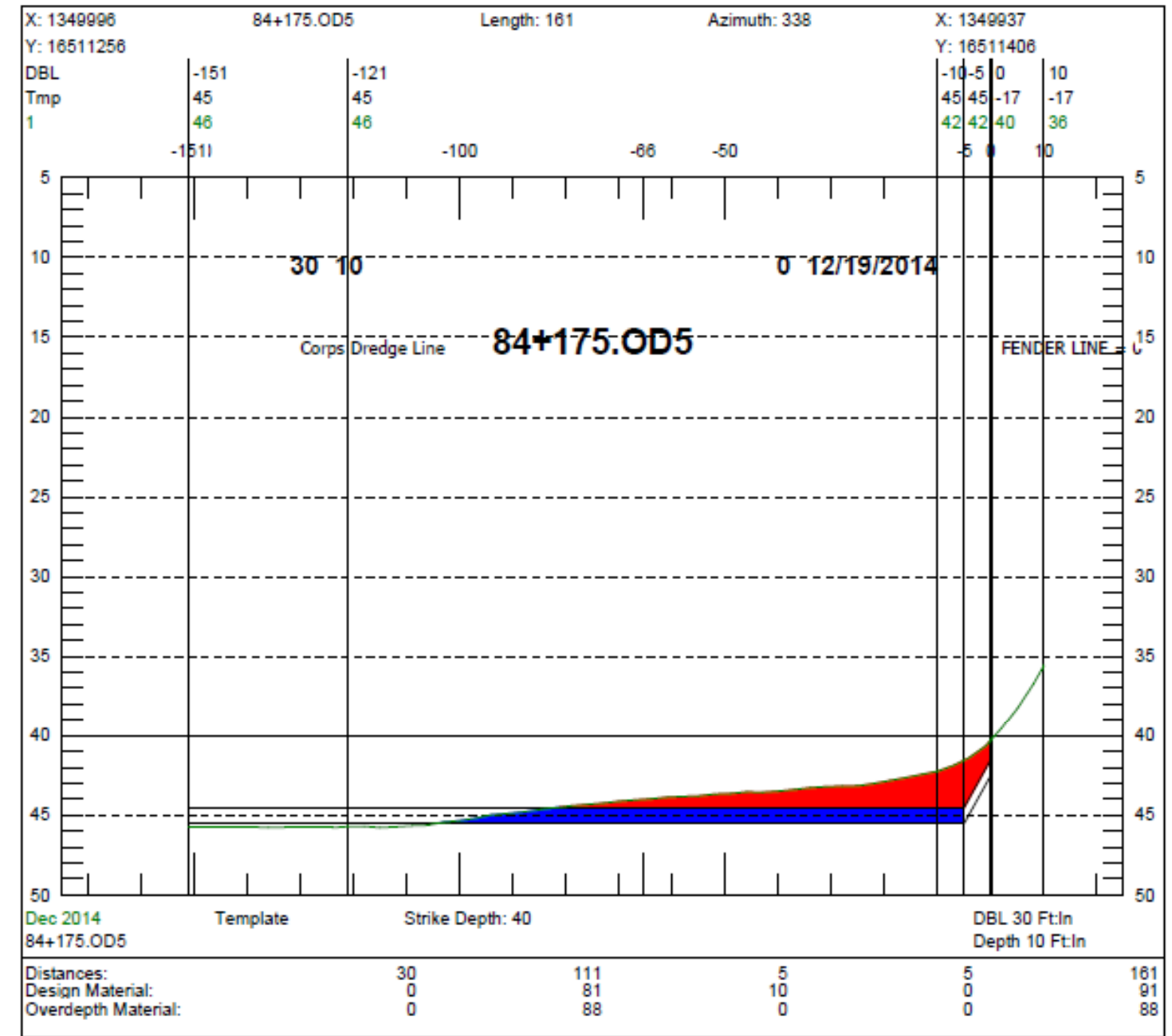
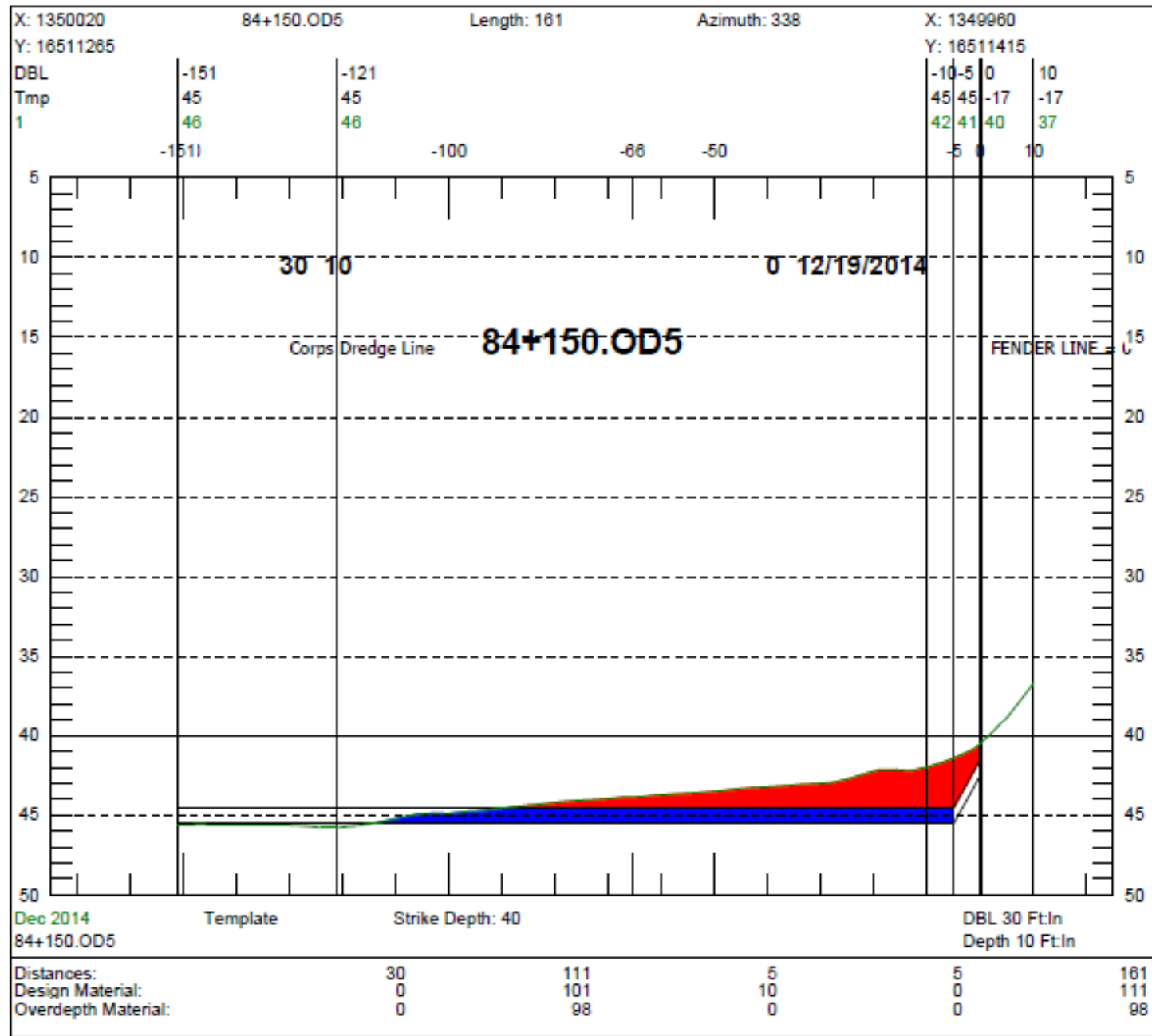
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Project	Port of Brownsville
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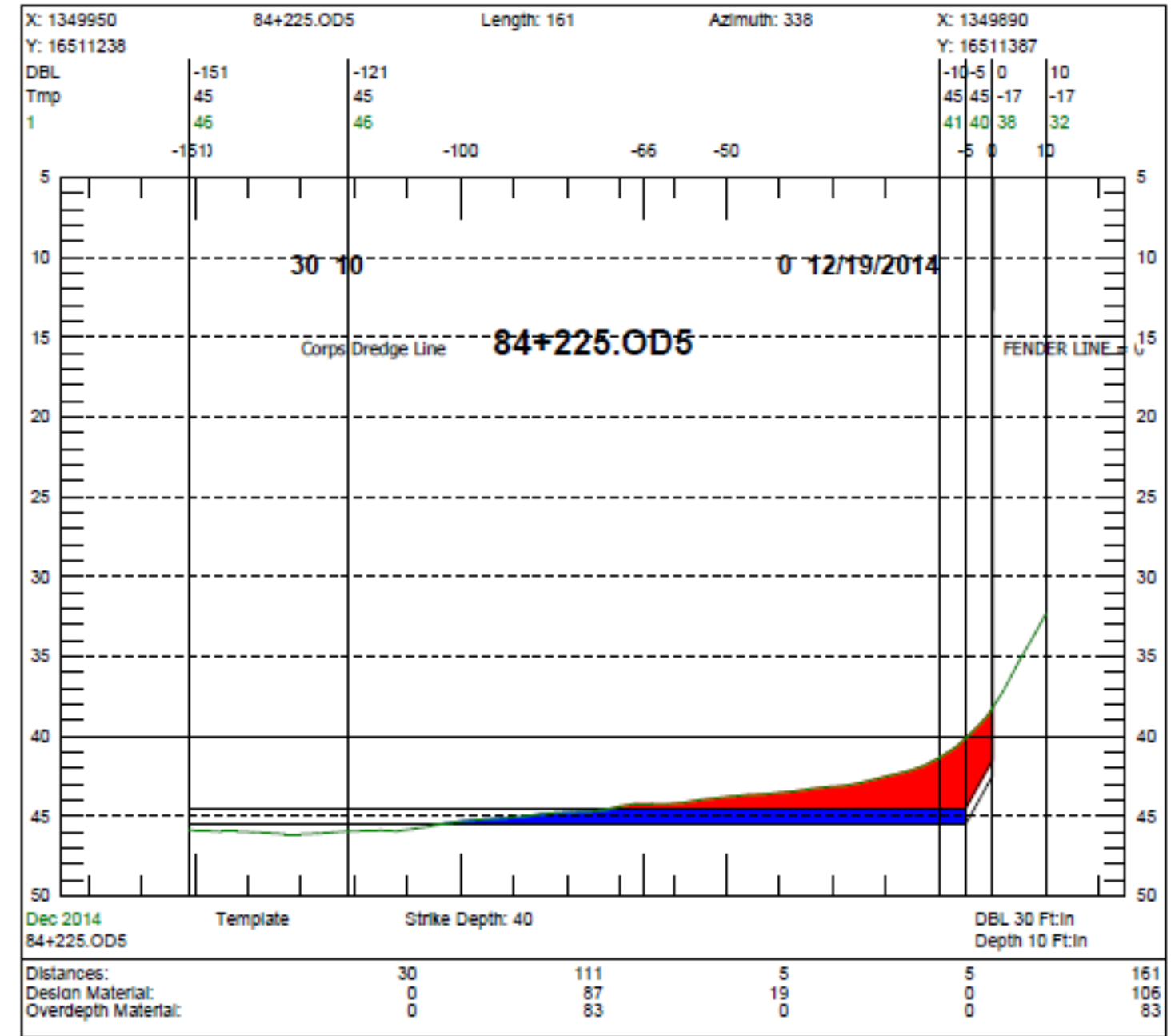
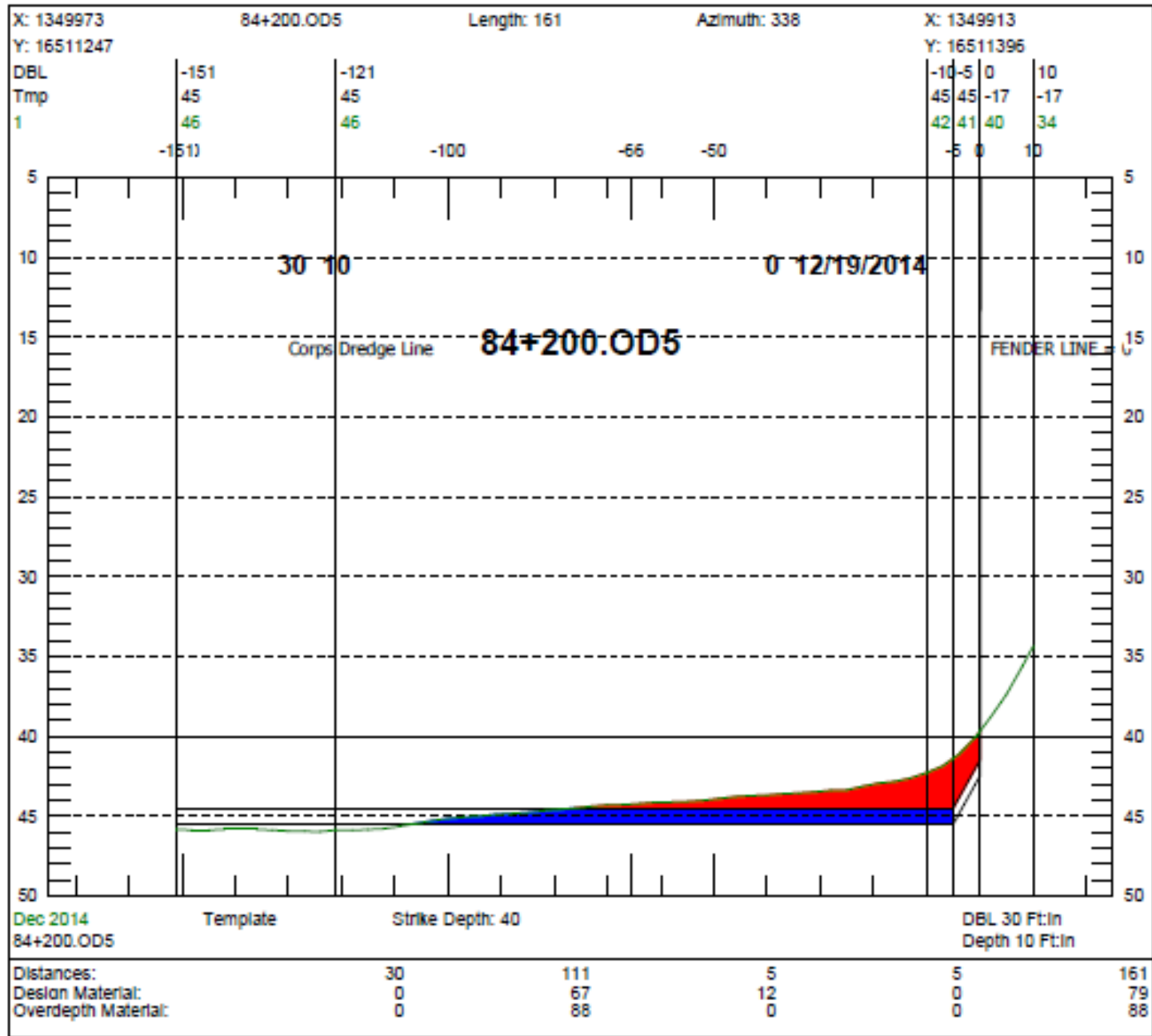
Sheet 13 Of 35	Dec 2014
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Job	
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Surveyor	Naismith Marine Services
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Sheet 14 Of 35	Dec 2014
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Sheet 15 Of 35	Dec 2014
Project	Port of Brownsville
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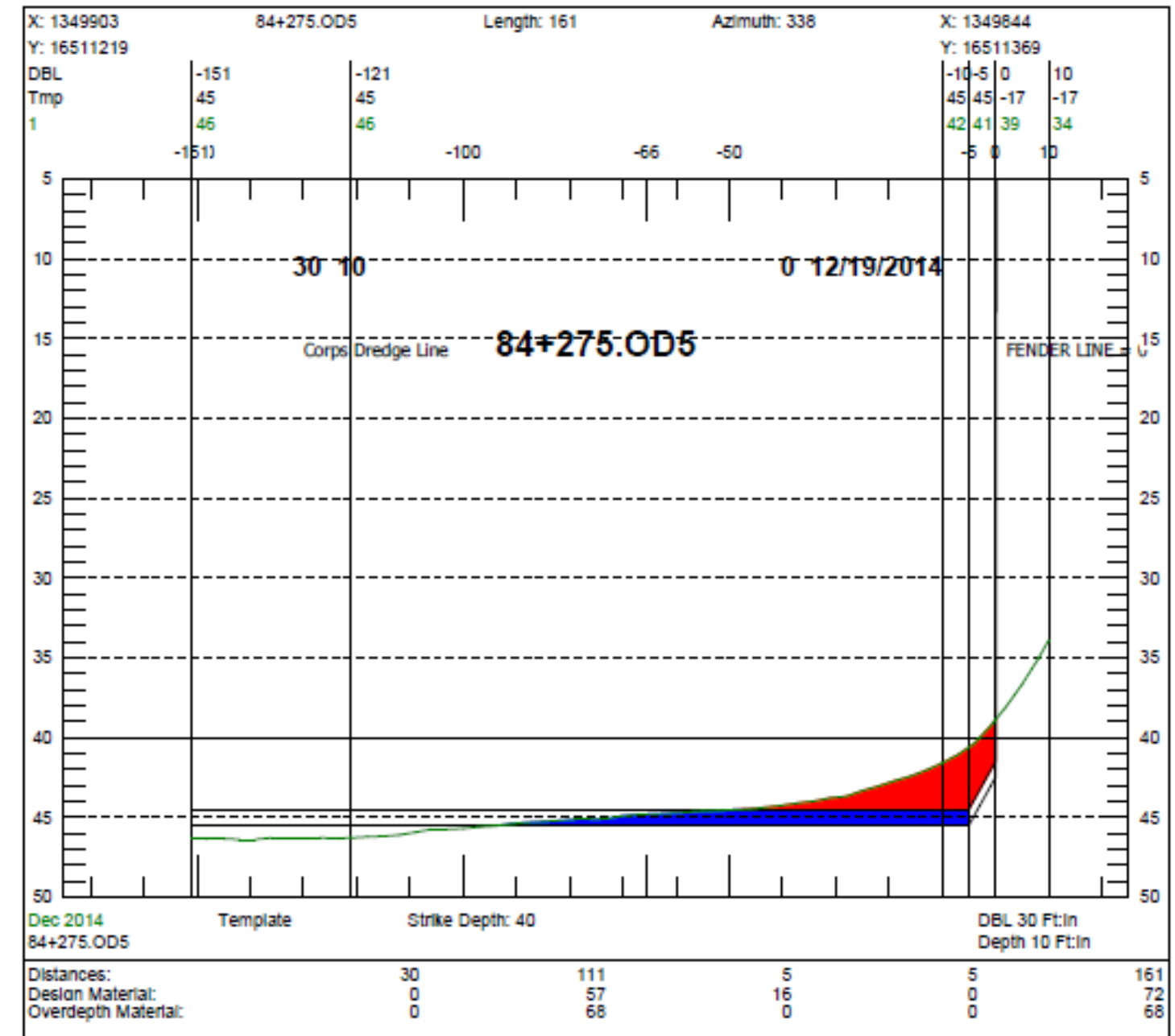
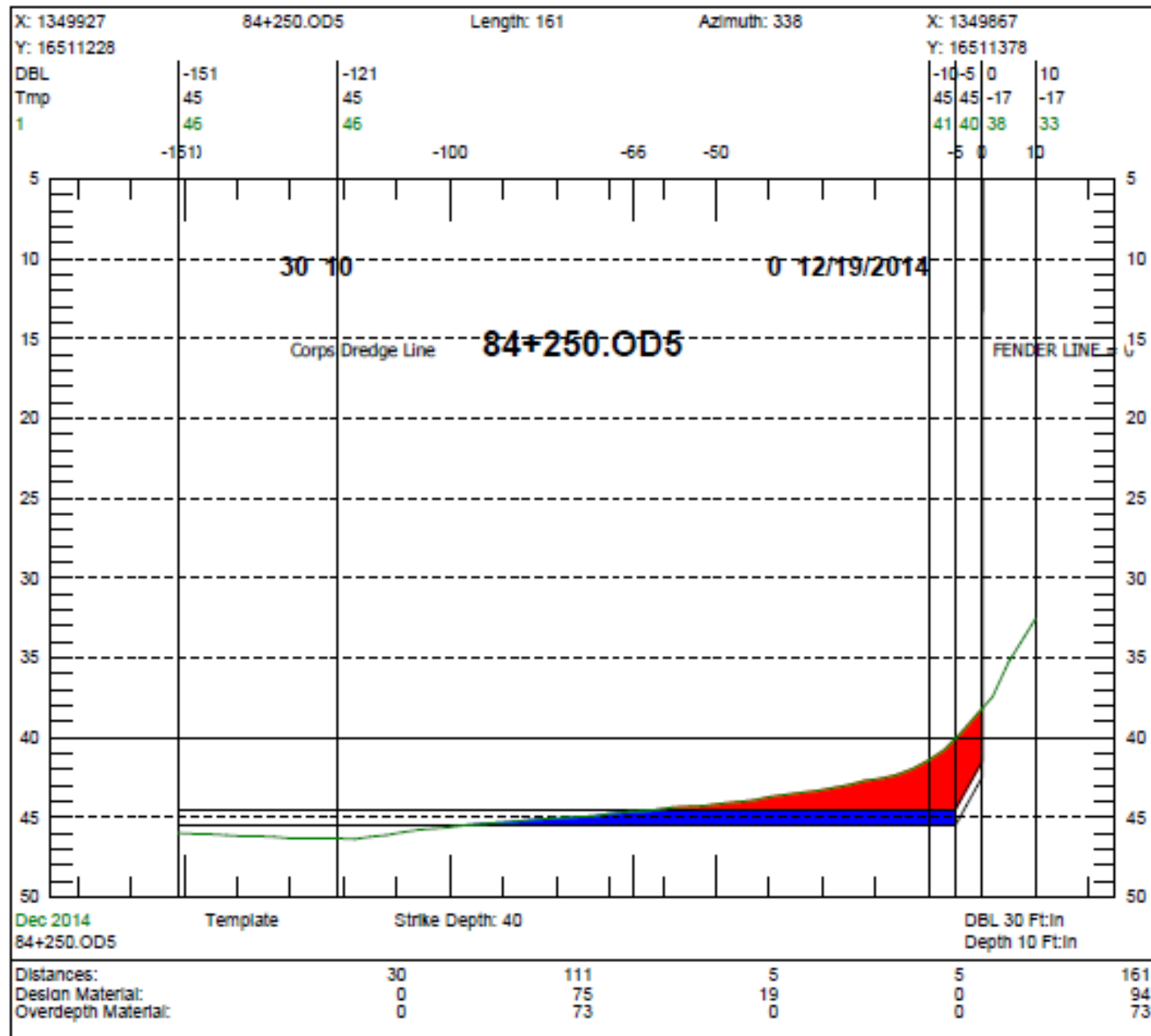
Sheet 16 Of 35	Dec 2014
Project	Port of Brownsville
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Sheet 17 Of 35	Dec 2014
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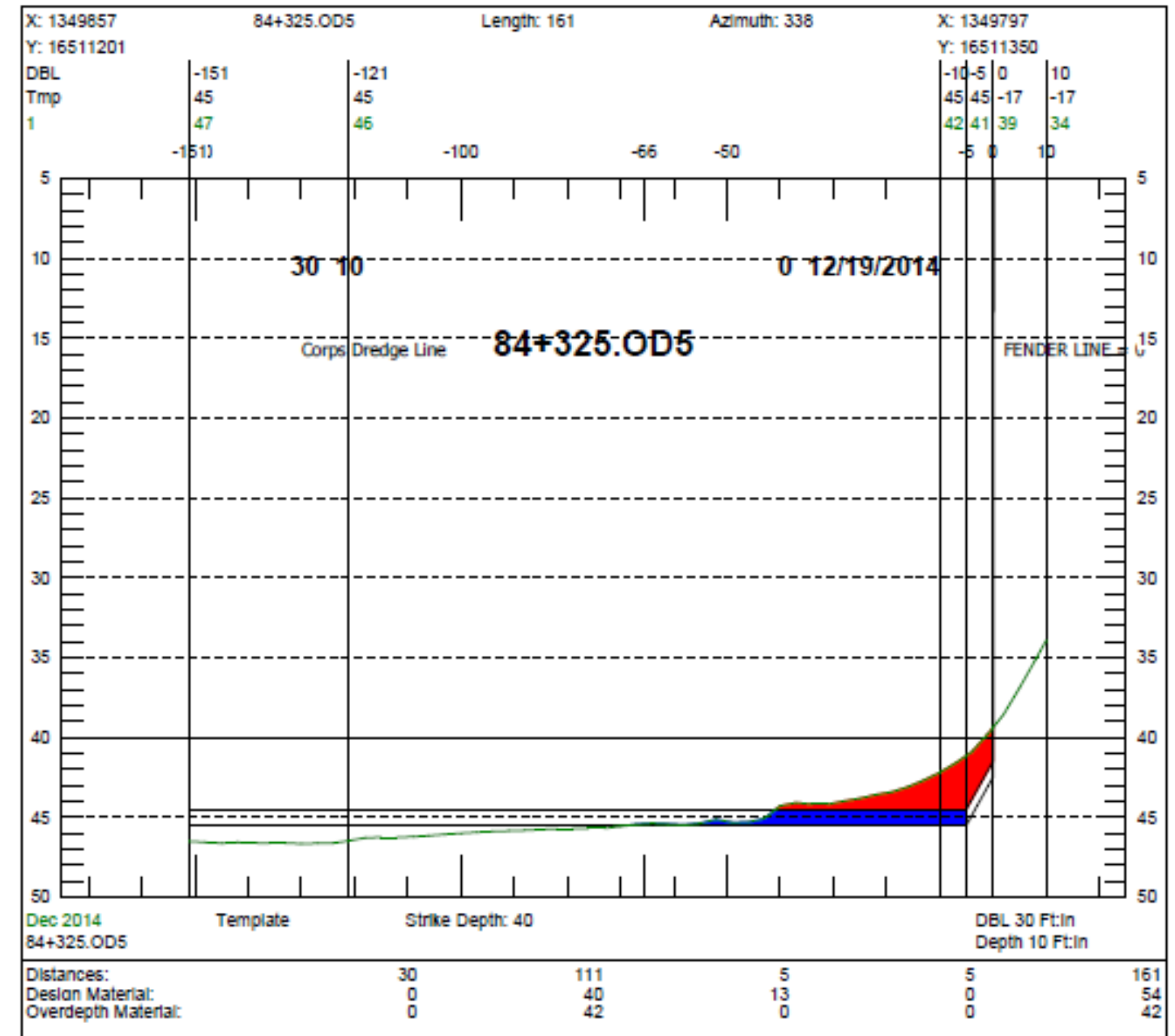
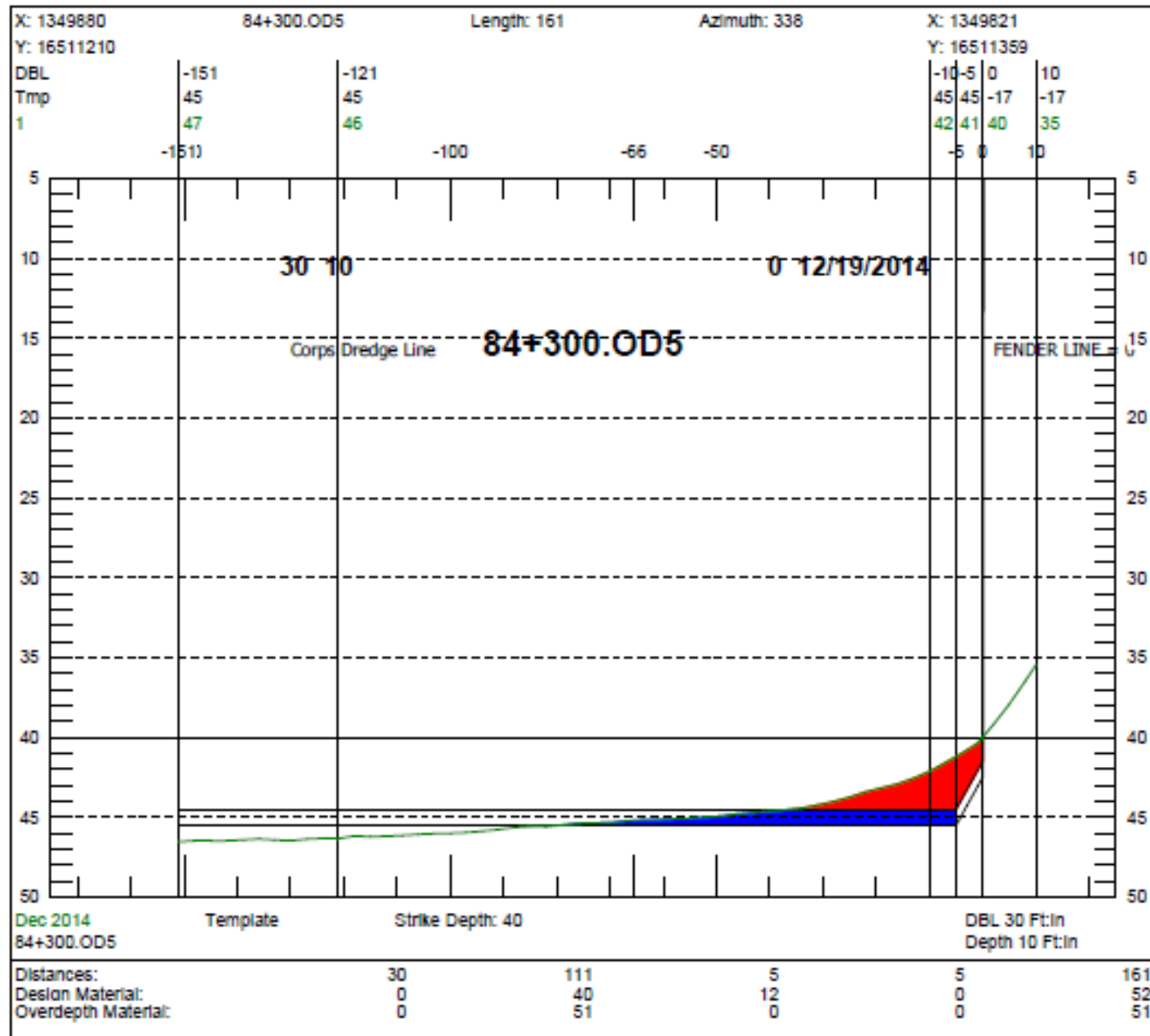
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File	





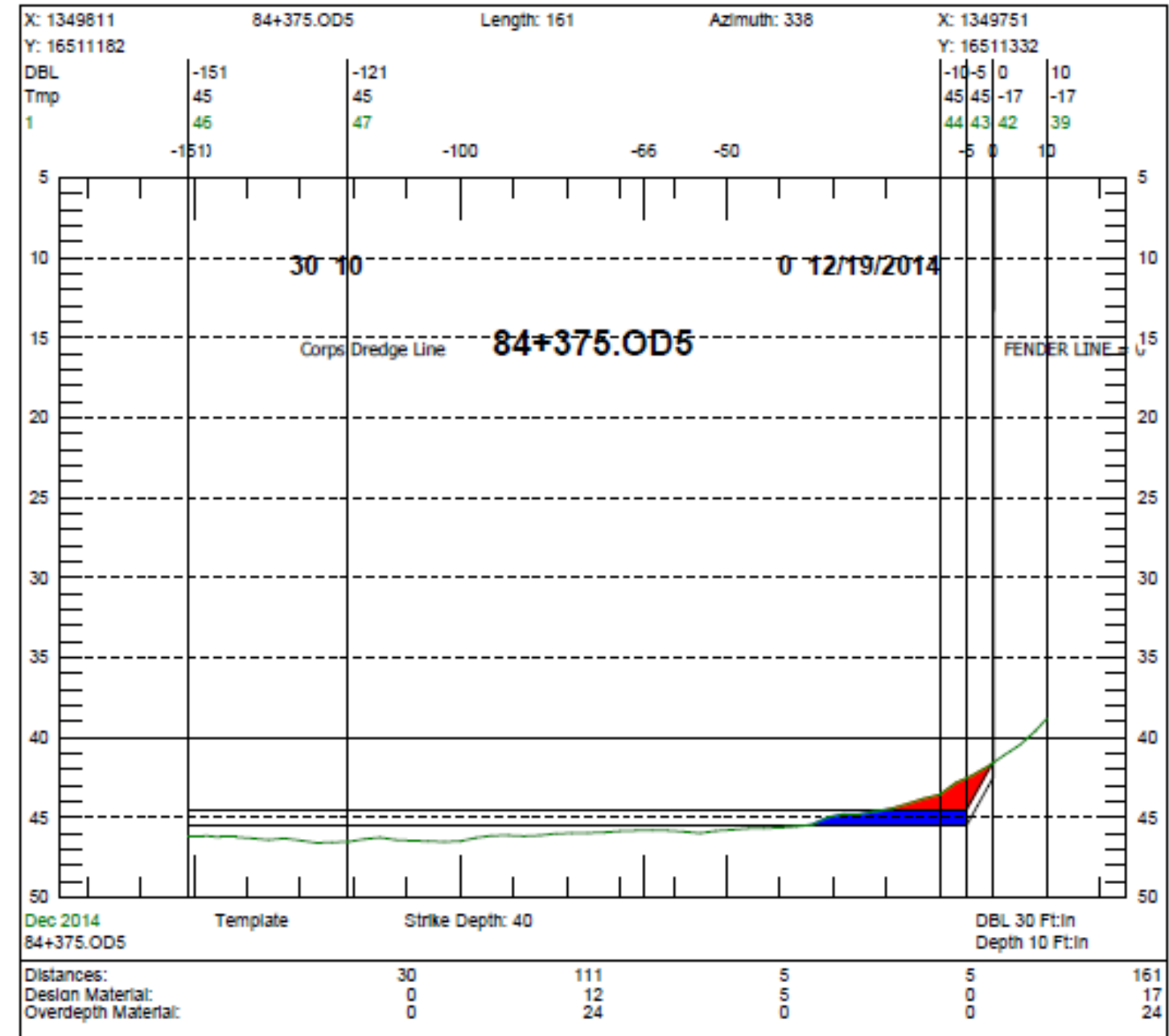
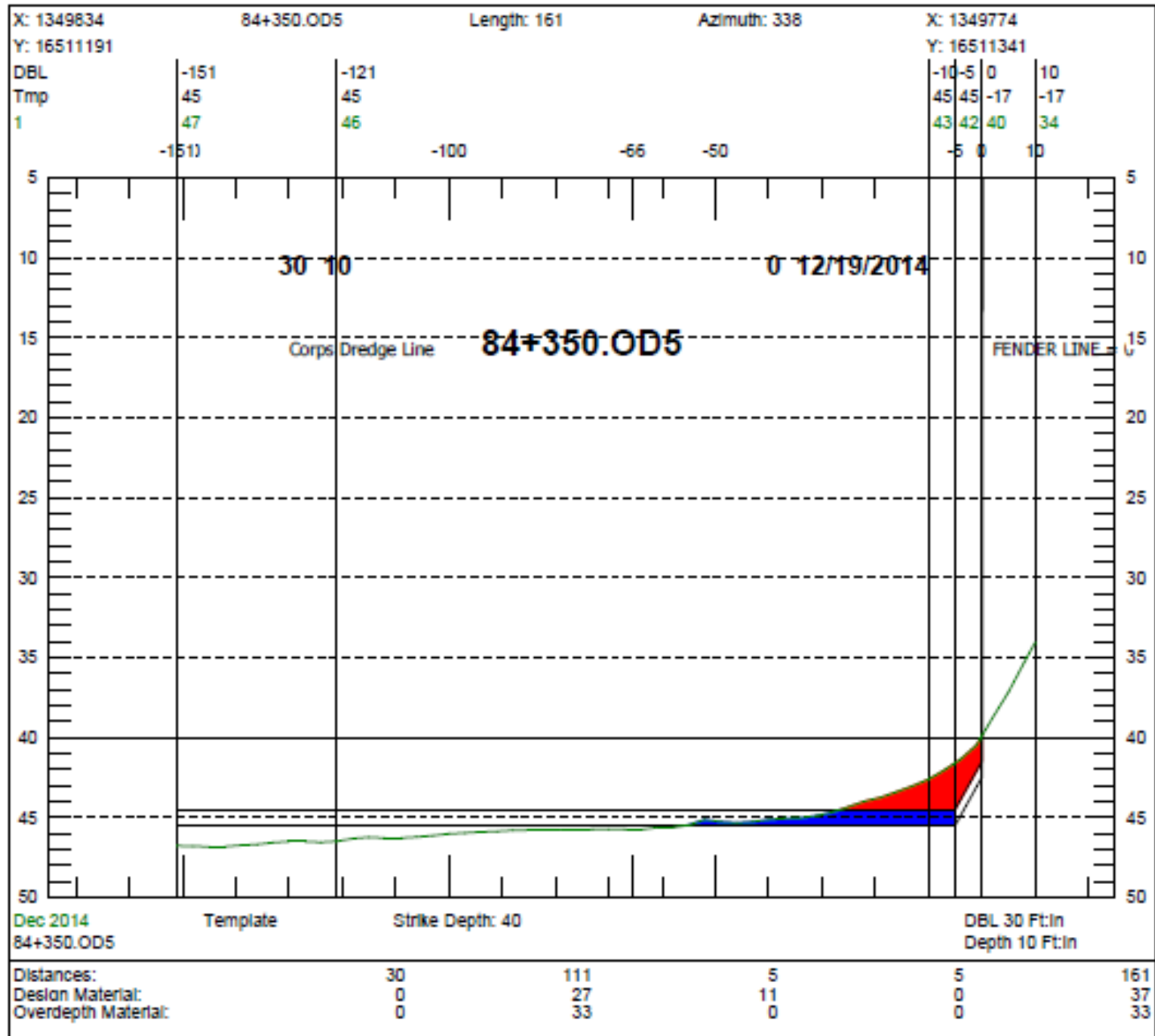
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Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

Sheet 20 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



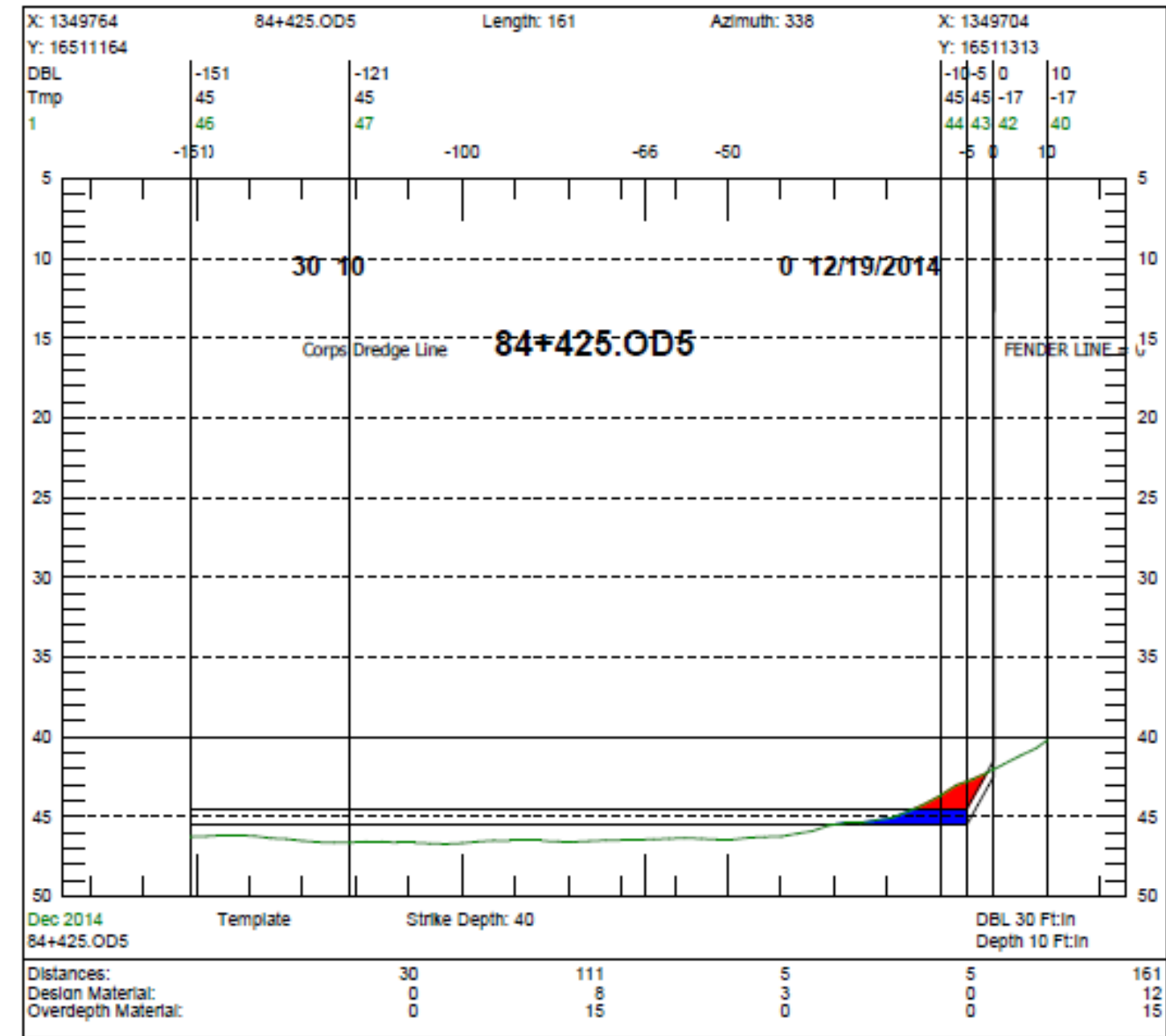
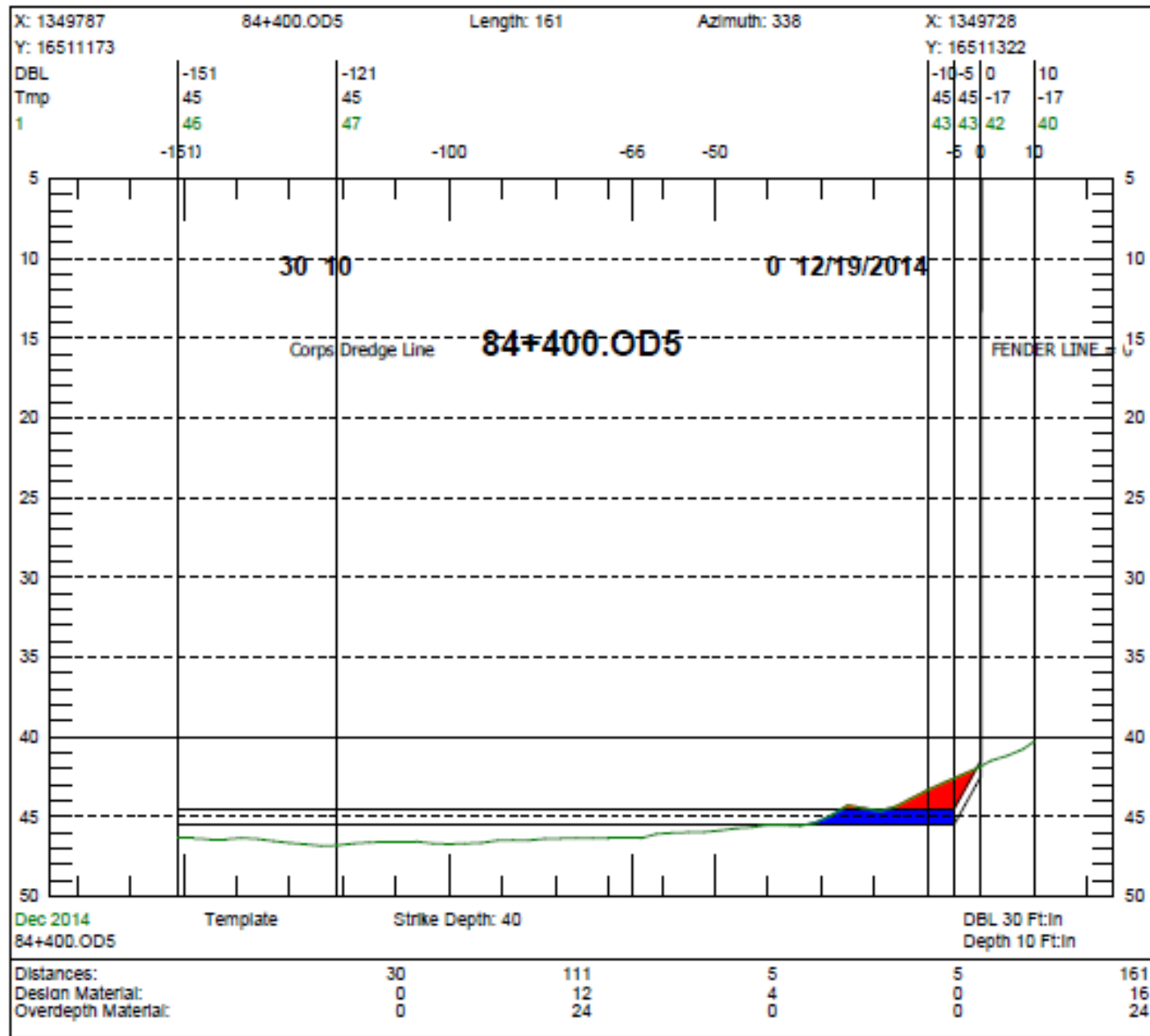
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Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

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Area	Oil Dock 5
Surveyor	Naismith Marine Services
Date	12/19/2014
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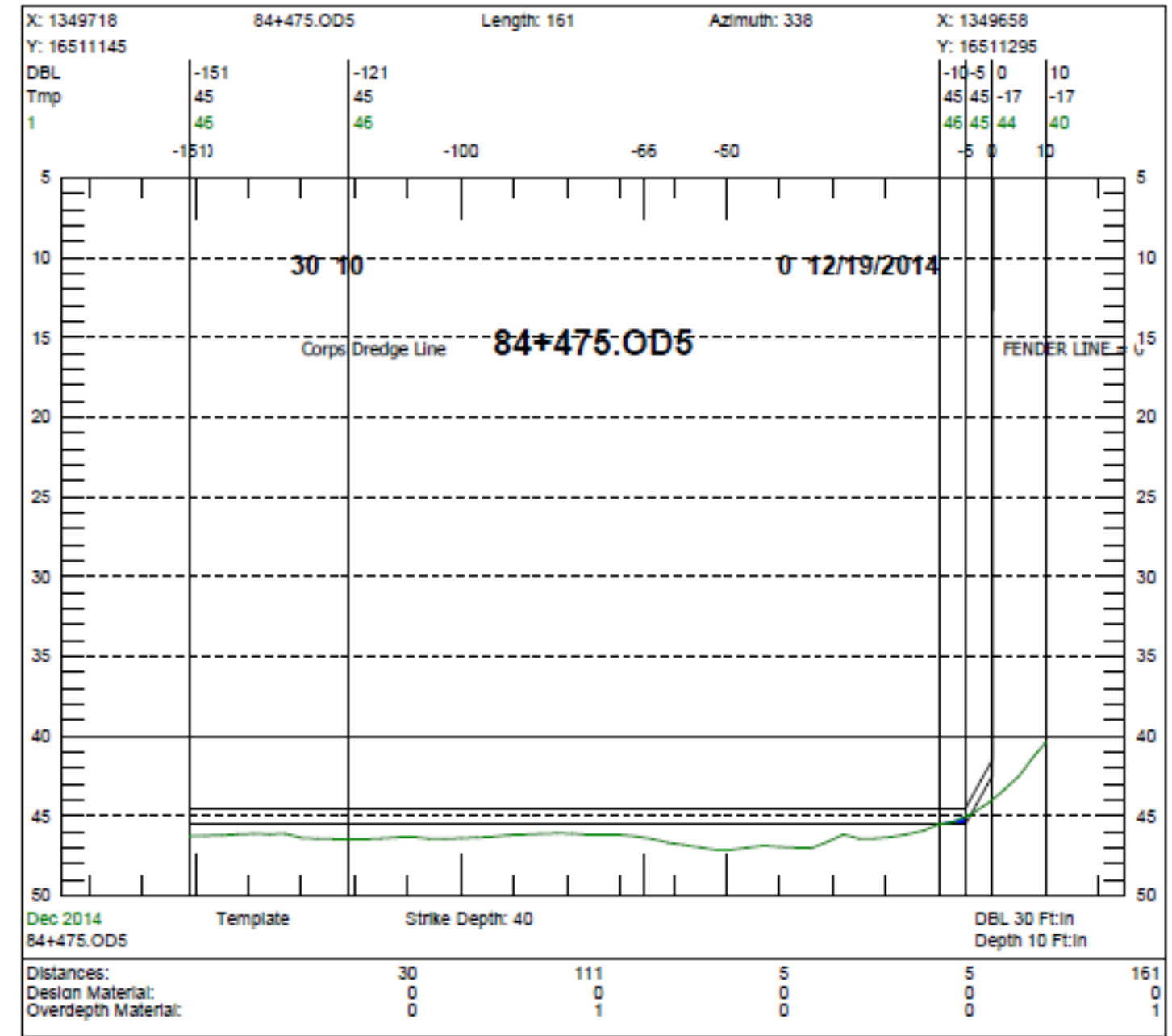
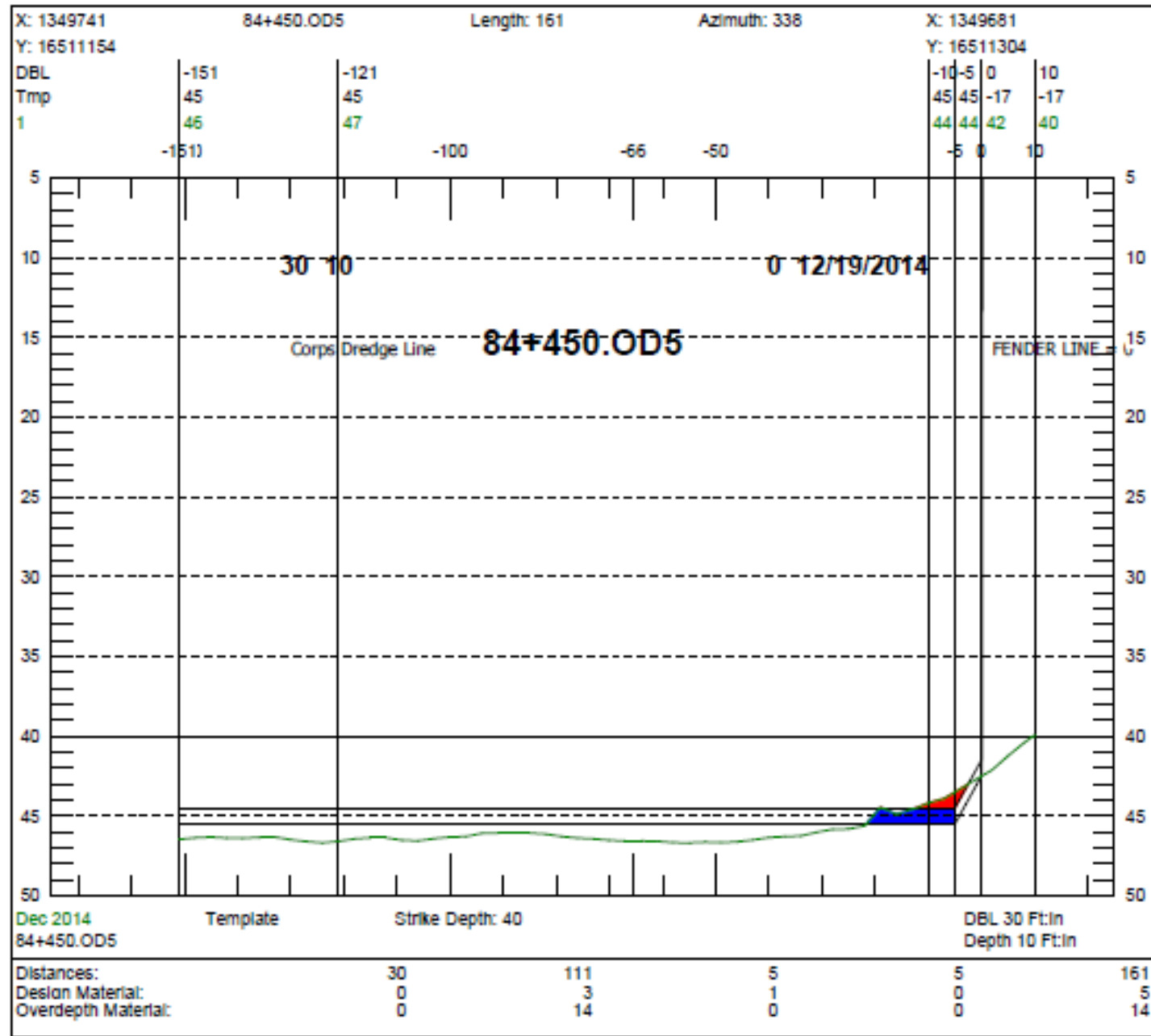
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Job	
Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
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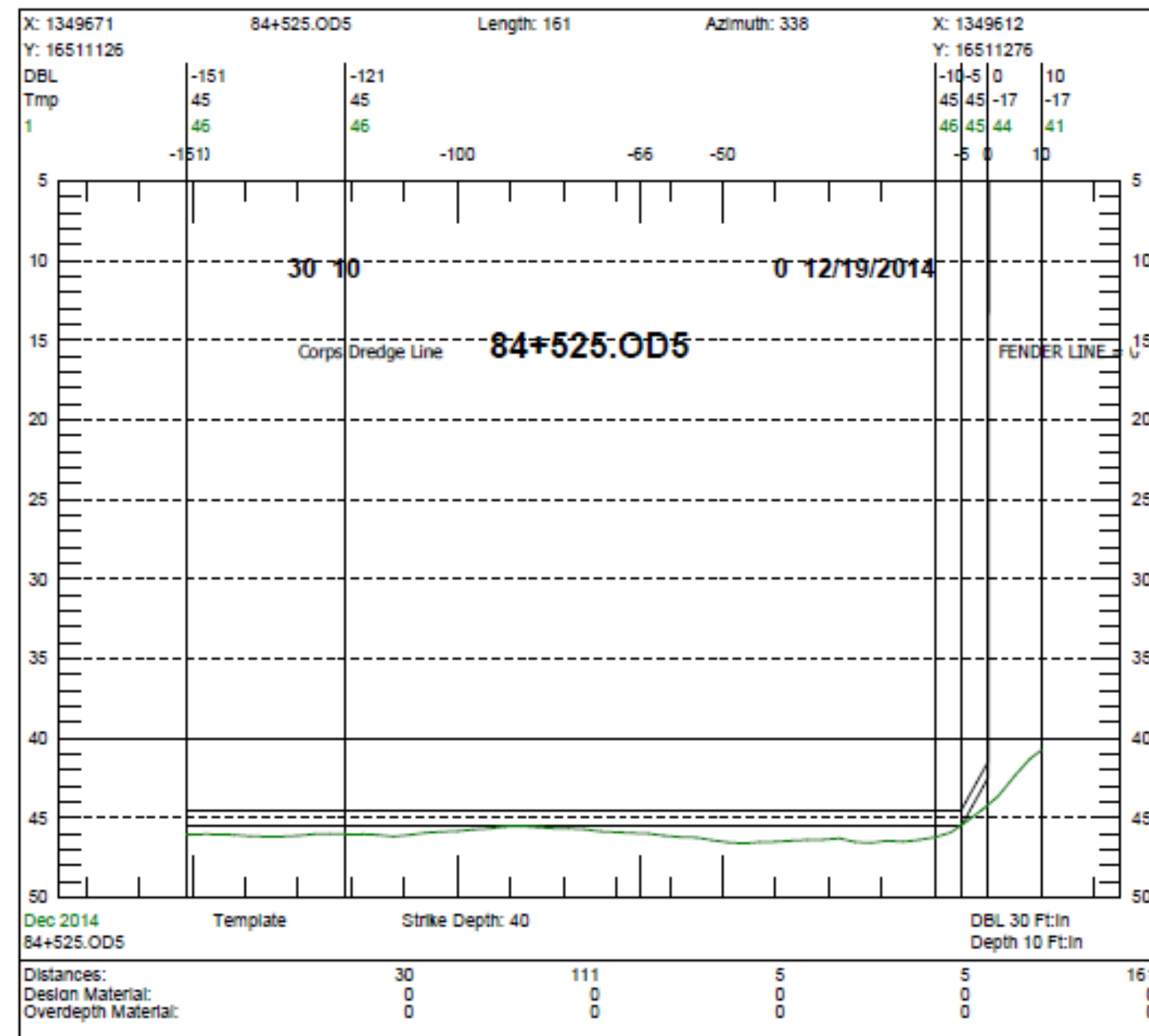
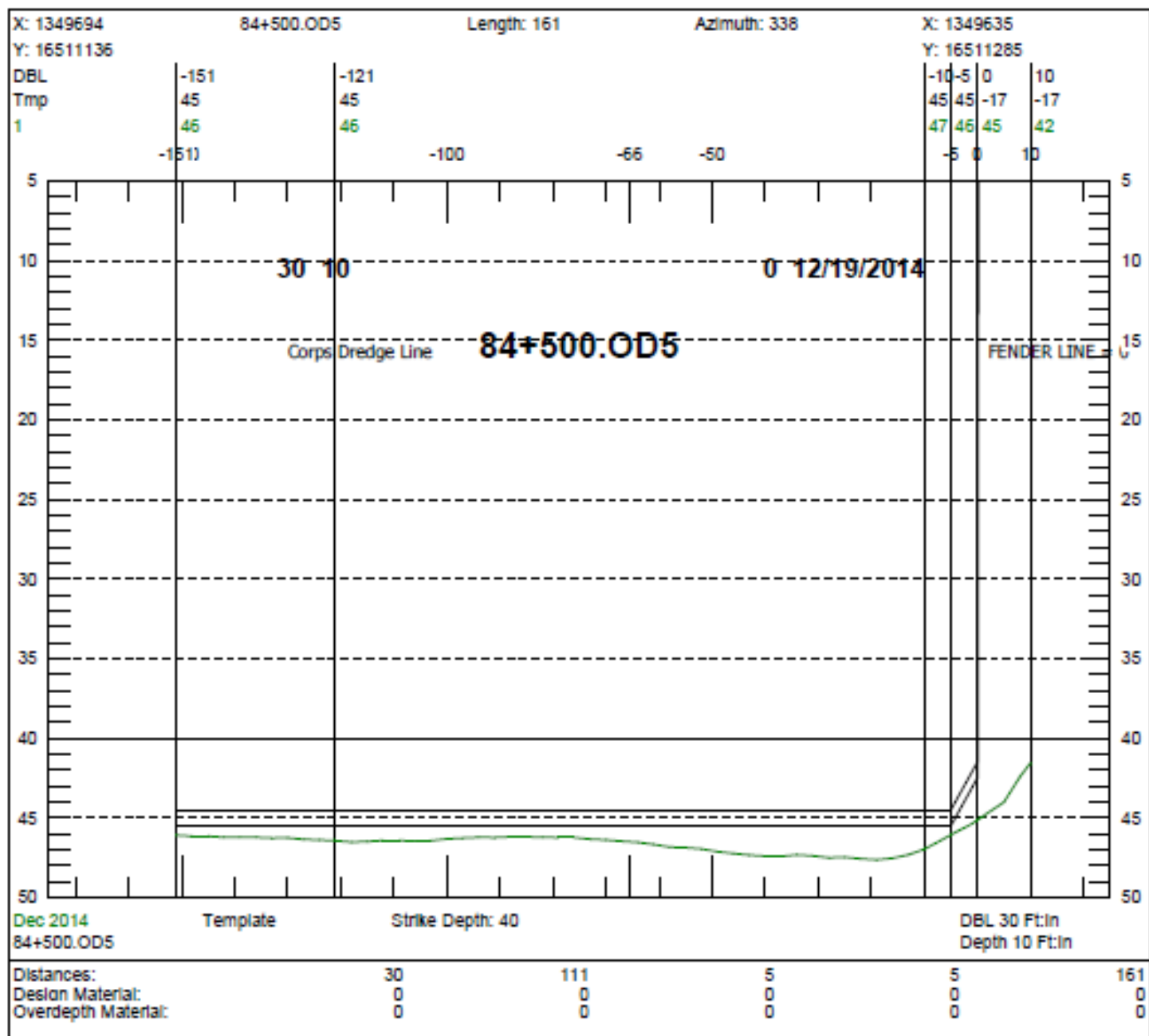
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Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
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Area	Oil Dock 5
Surveyor	Naismith Marine Services
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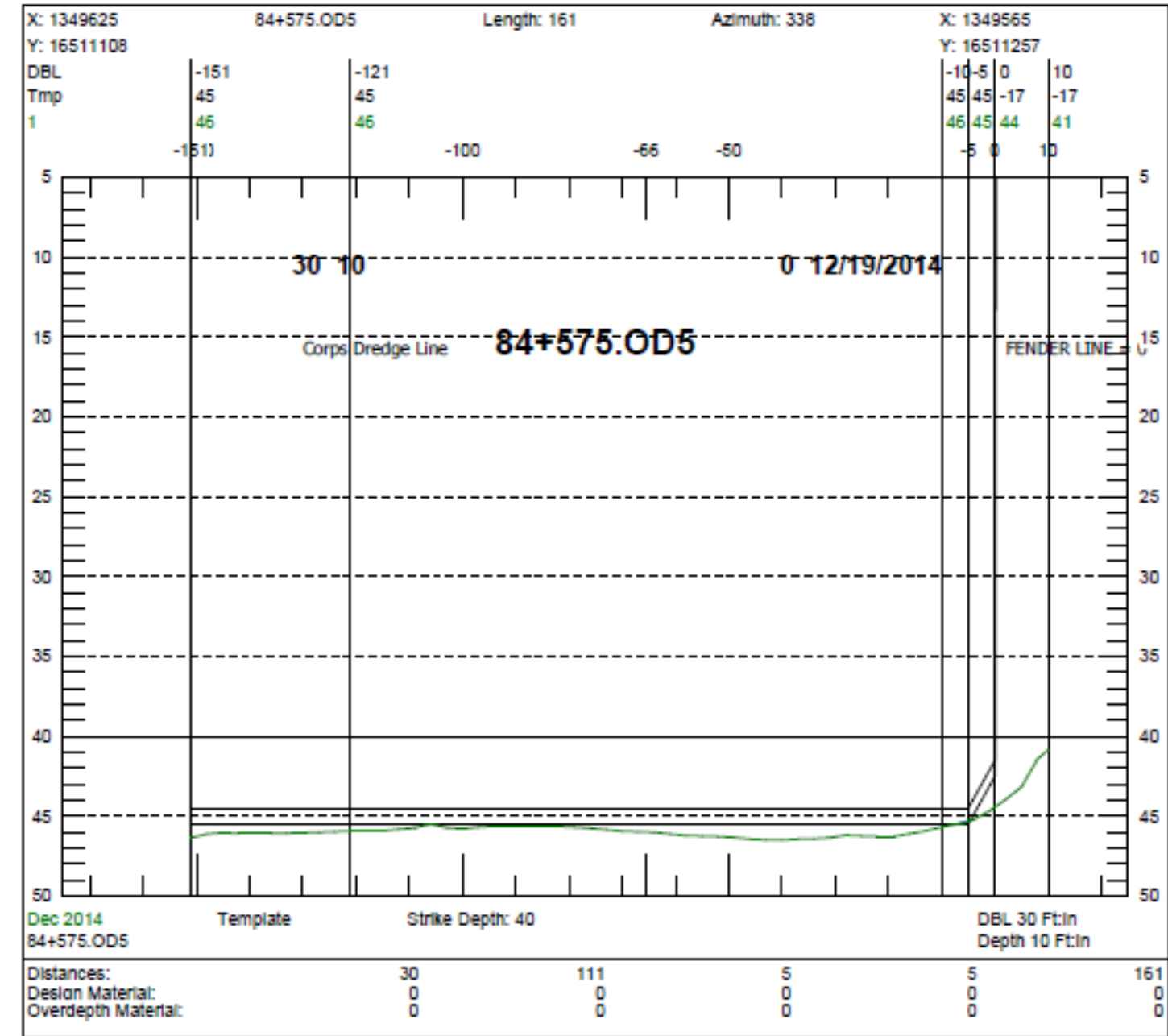
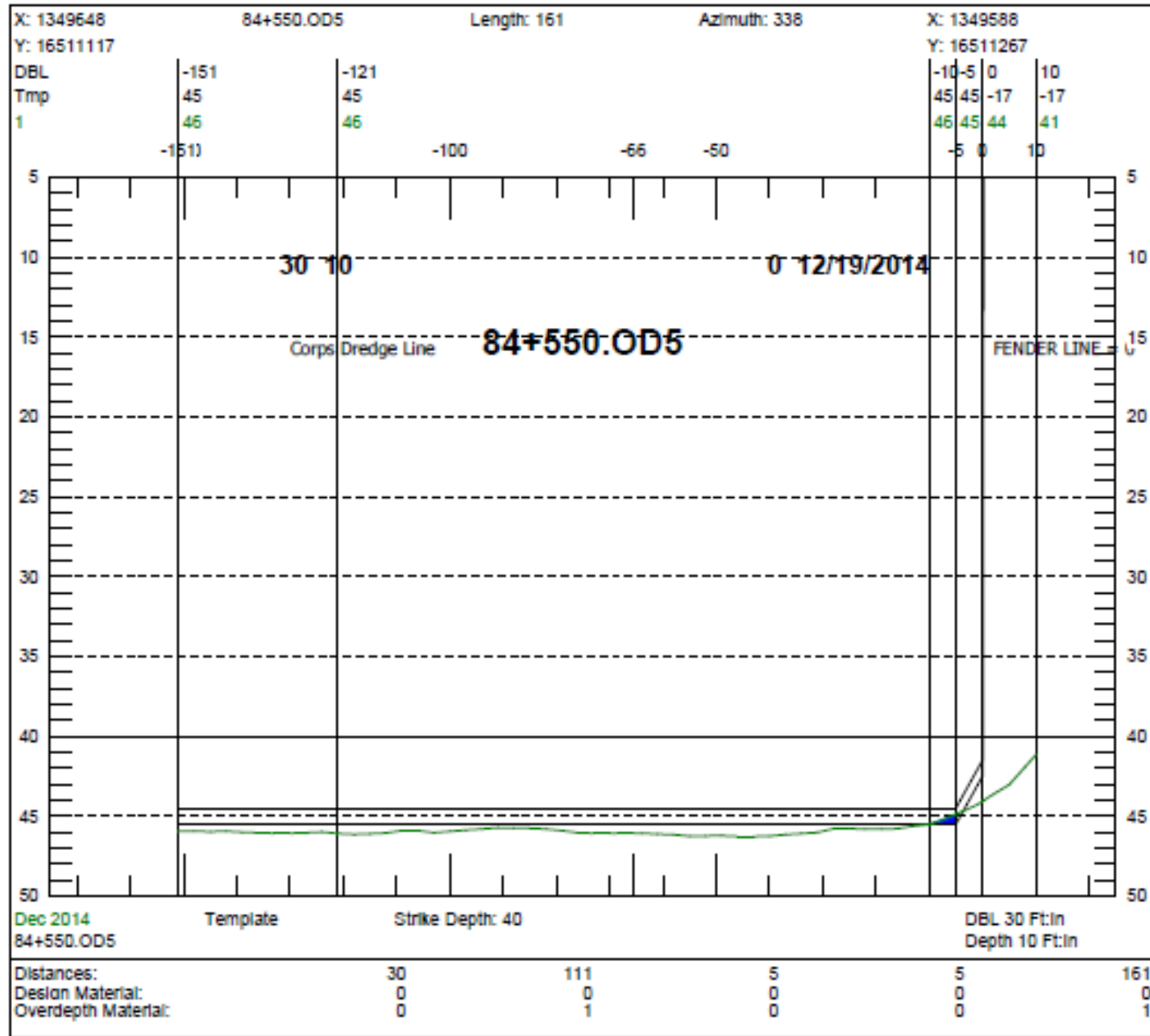
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Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
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Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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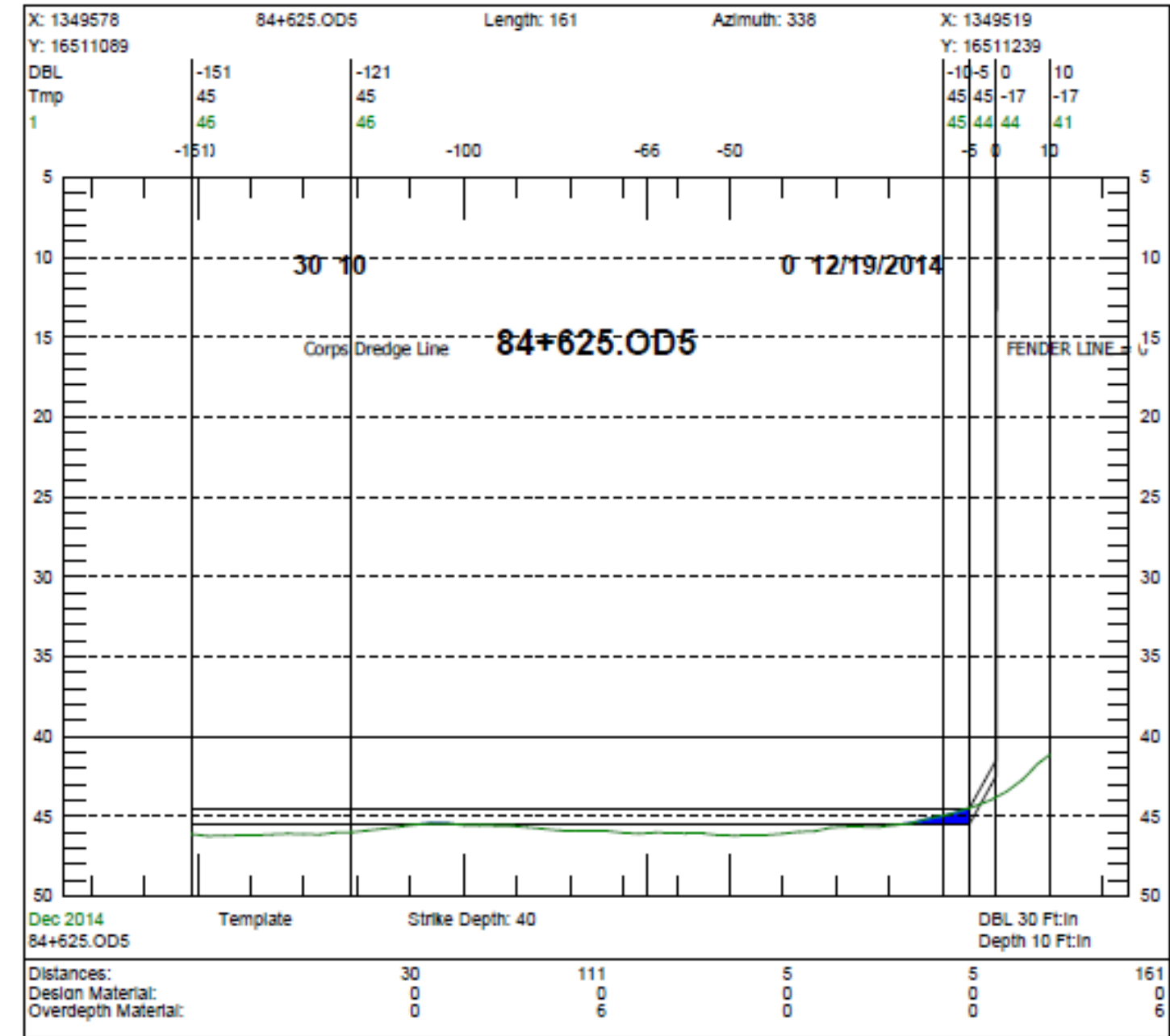
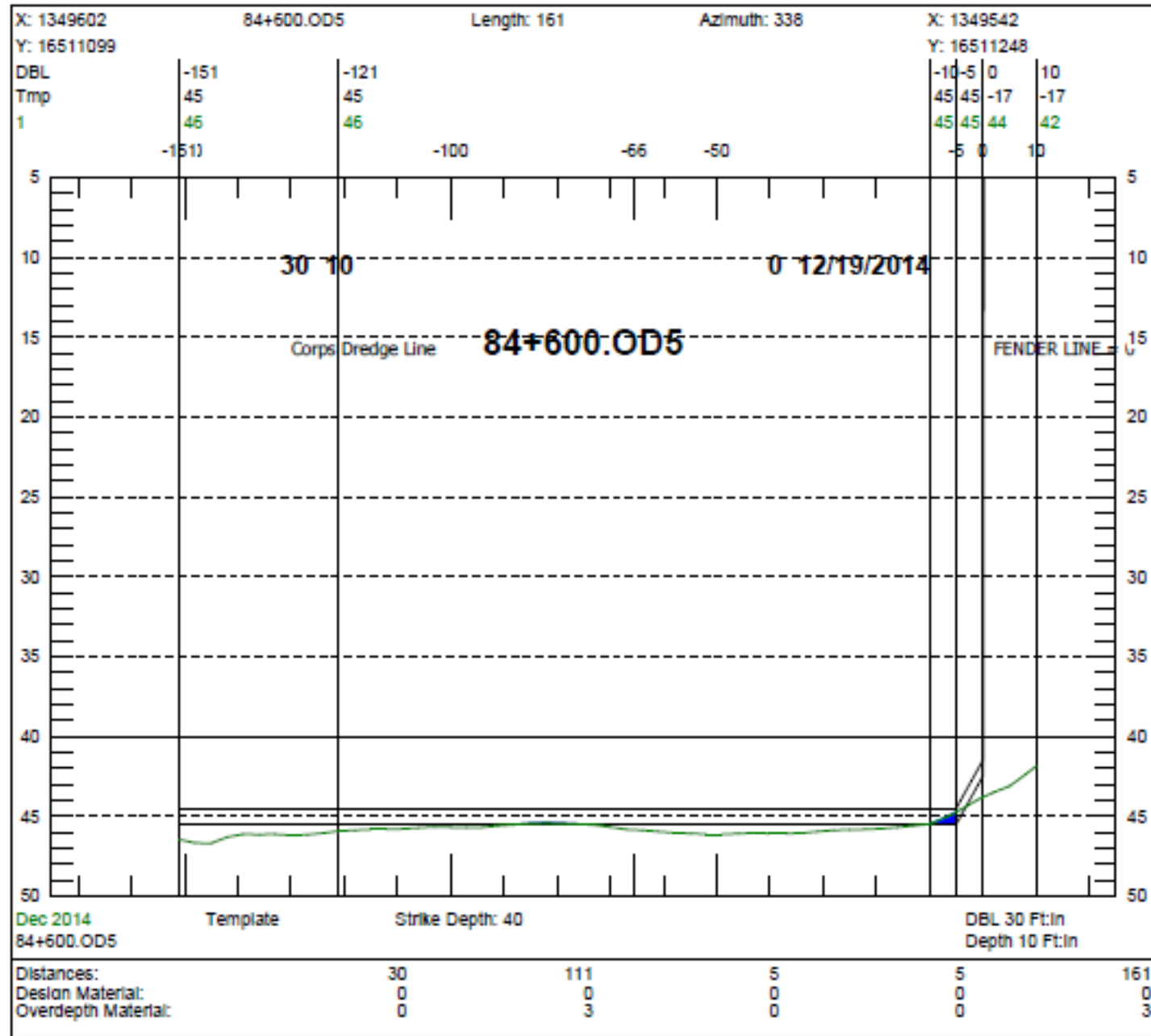
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Sheet 30 Of 35	Dec 2014
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Job	
Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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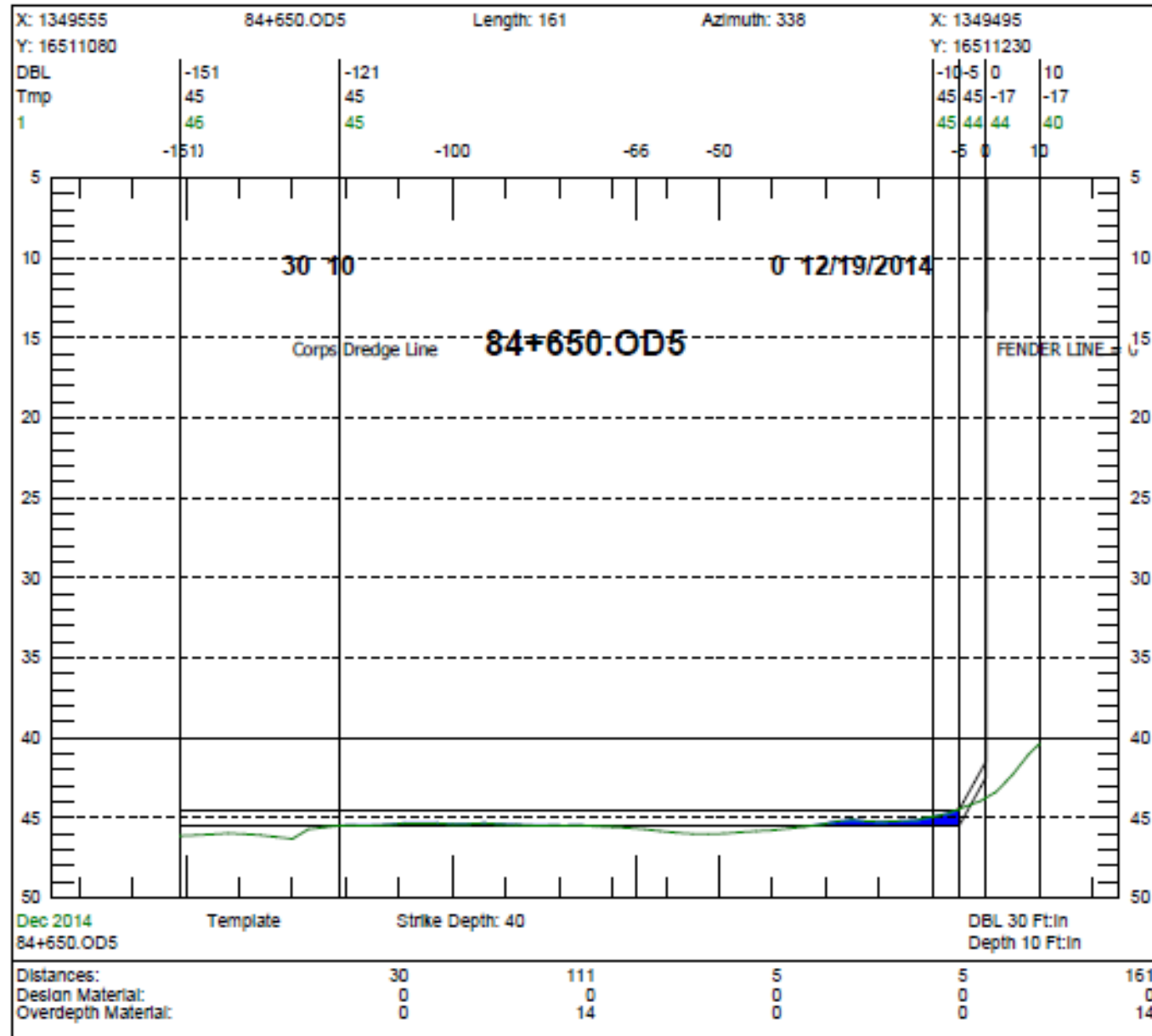
Sheet 32 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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Job	
Area	Oil Dock 5
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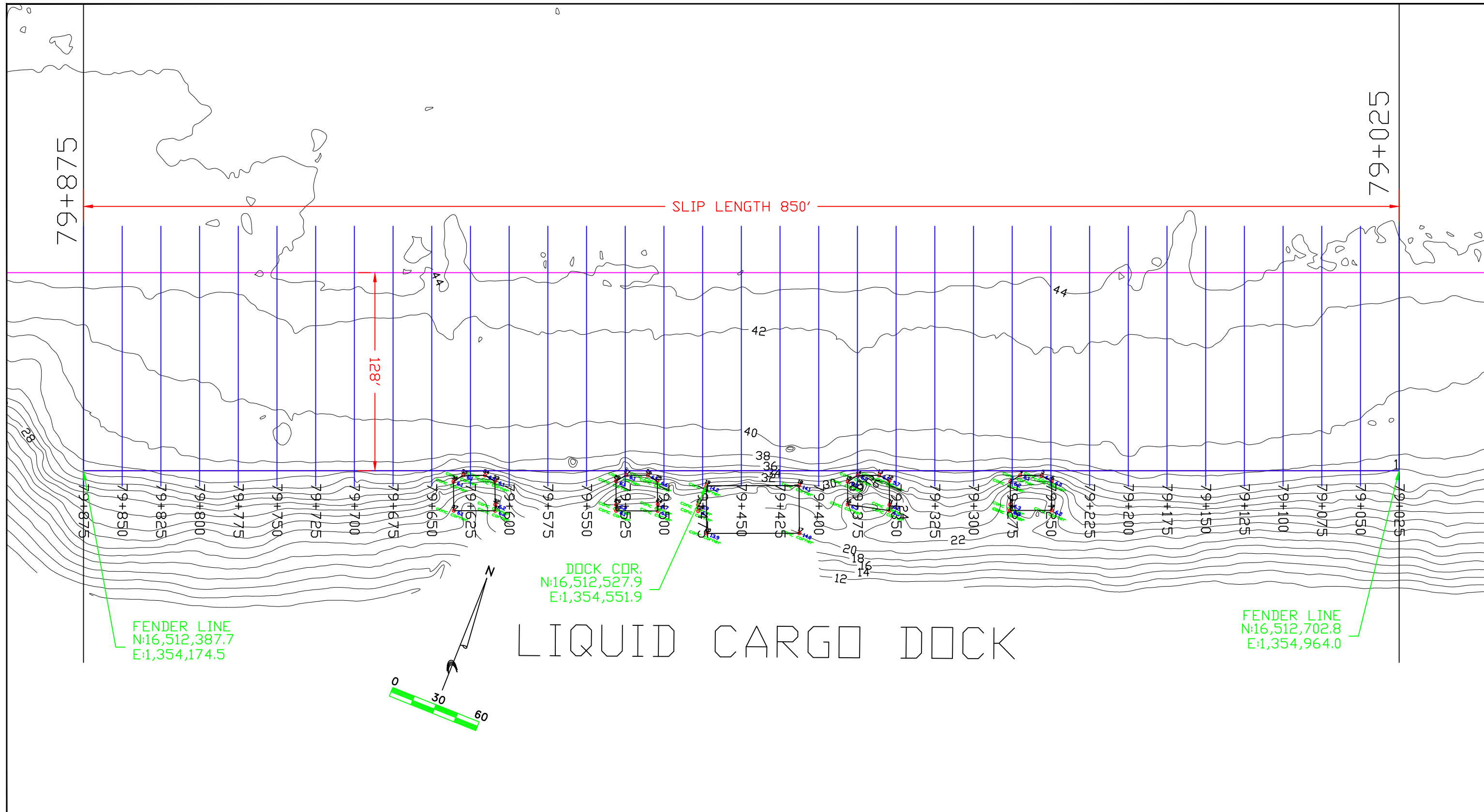
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Area	Oil Dock 5
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Date	12/19/2014
File	



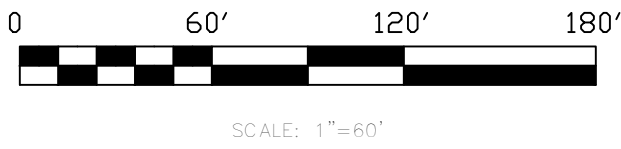
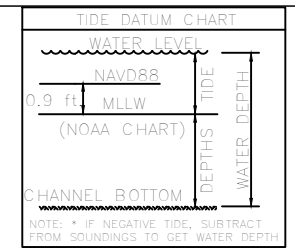


Sheet 35 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Oil Dock 5
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**LIQUID CARGO DOCK**



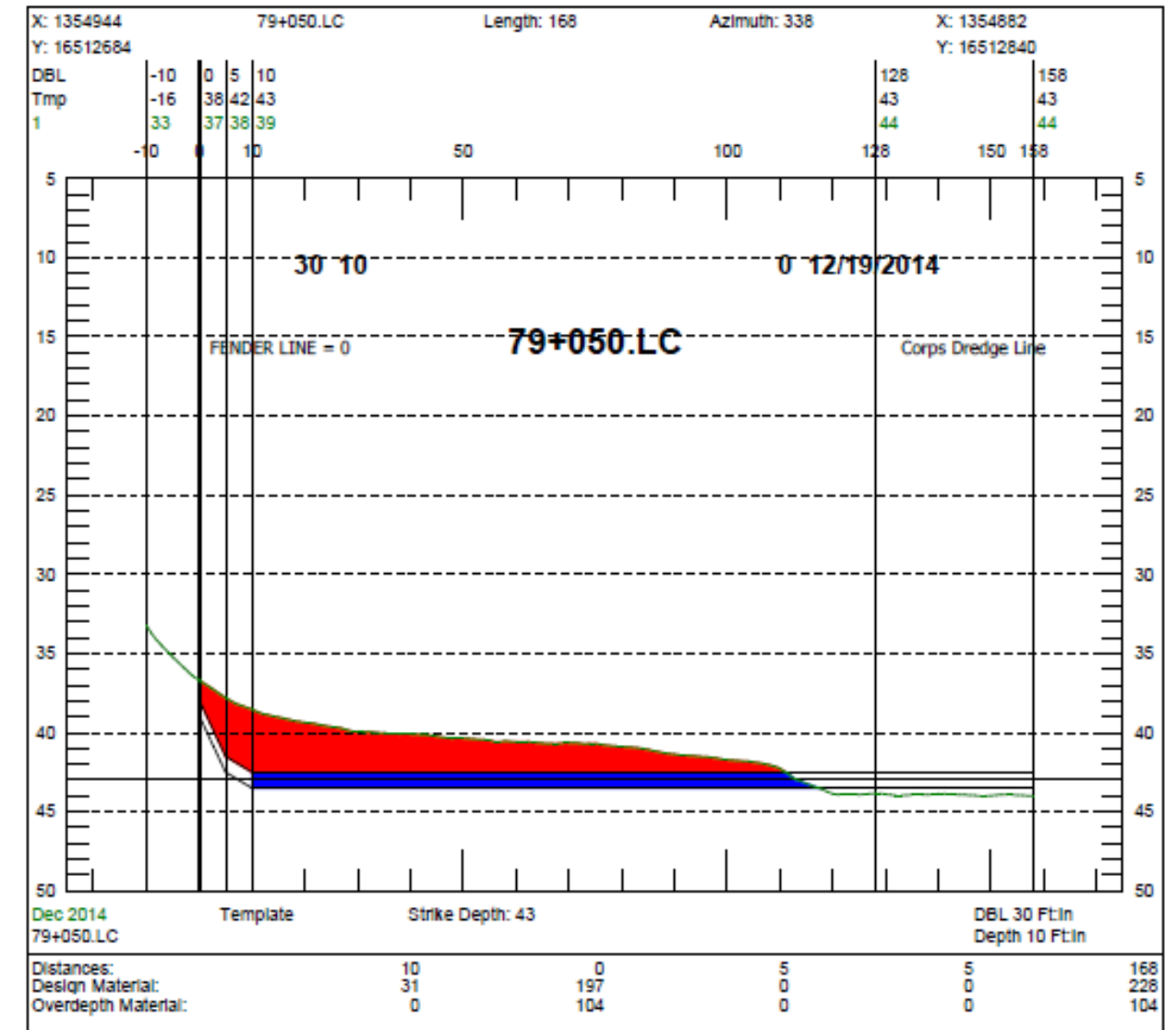
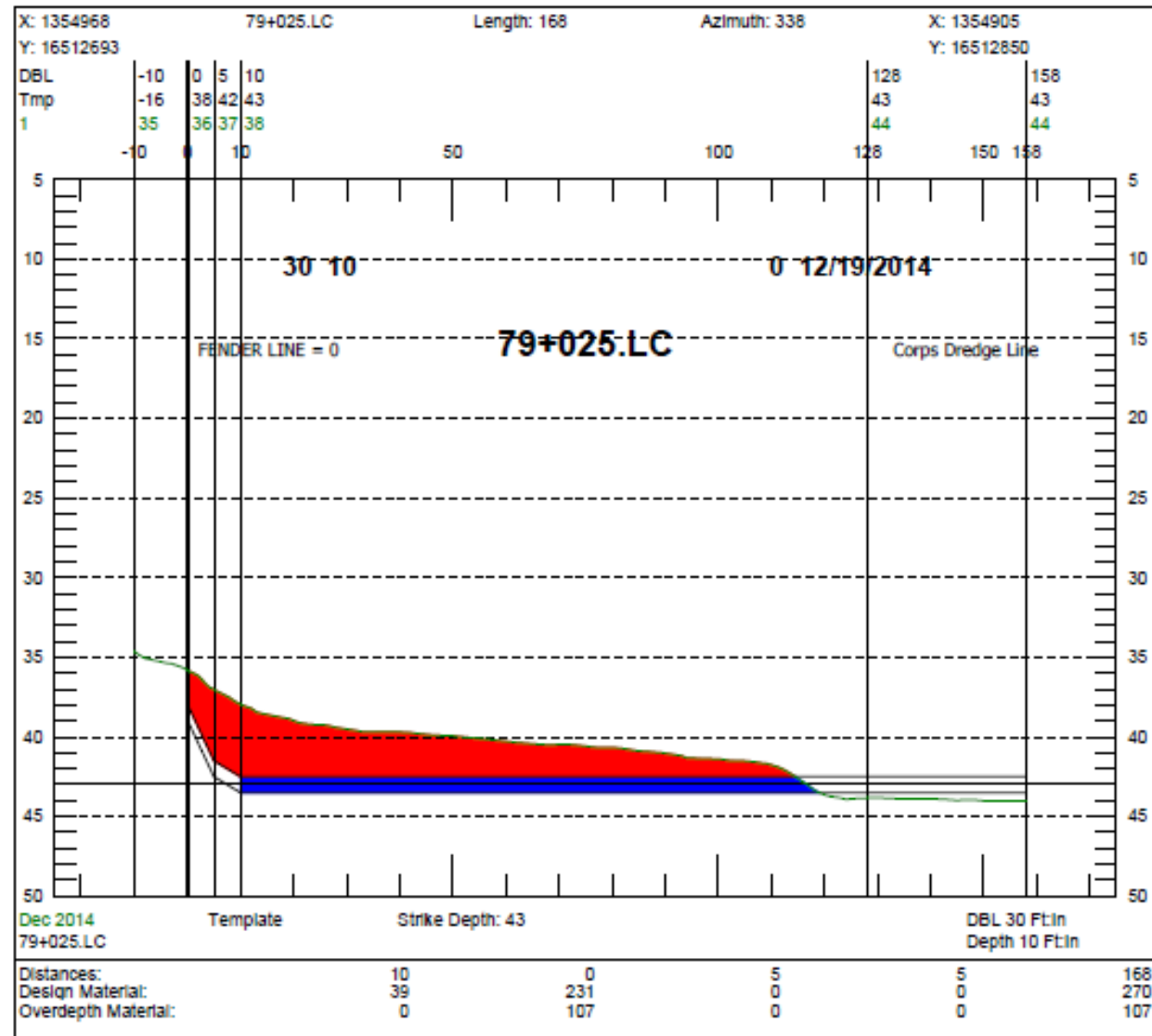
**NOTES:**  
 1) DEPTHS/ELEVATIONS WERE MEASURED BY NAISMITH MARINE SERVICES ON DECEMBER 19, 2014. SEA FLOOR CONDITIONS ARE SUBJECT TO CHANGE.  
 2) HORIZONTAL DATUM: NAD27, TEXAS SOUTH ZONE, US FEET.  
 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
 REFERENCE MONUMENT "535 R/L 1948 89+679.68"  
 N: 105,292.01  
 E: 2,360,559.23  
 ELEV: 14.7' MLLW (13.8' NAVD88)



**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
 Corpus Christi, Texas 78411  
 WWW.NAISMITHMARINE.COM  
 (361) 945-0248

NO.	DATE	REVISION

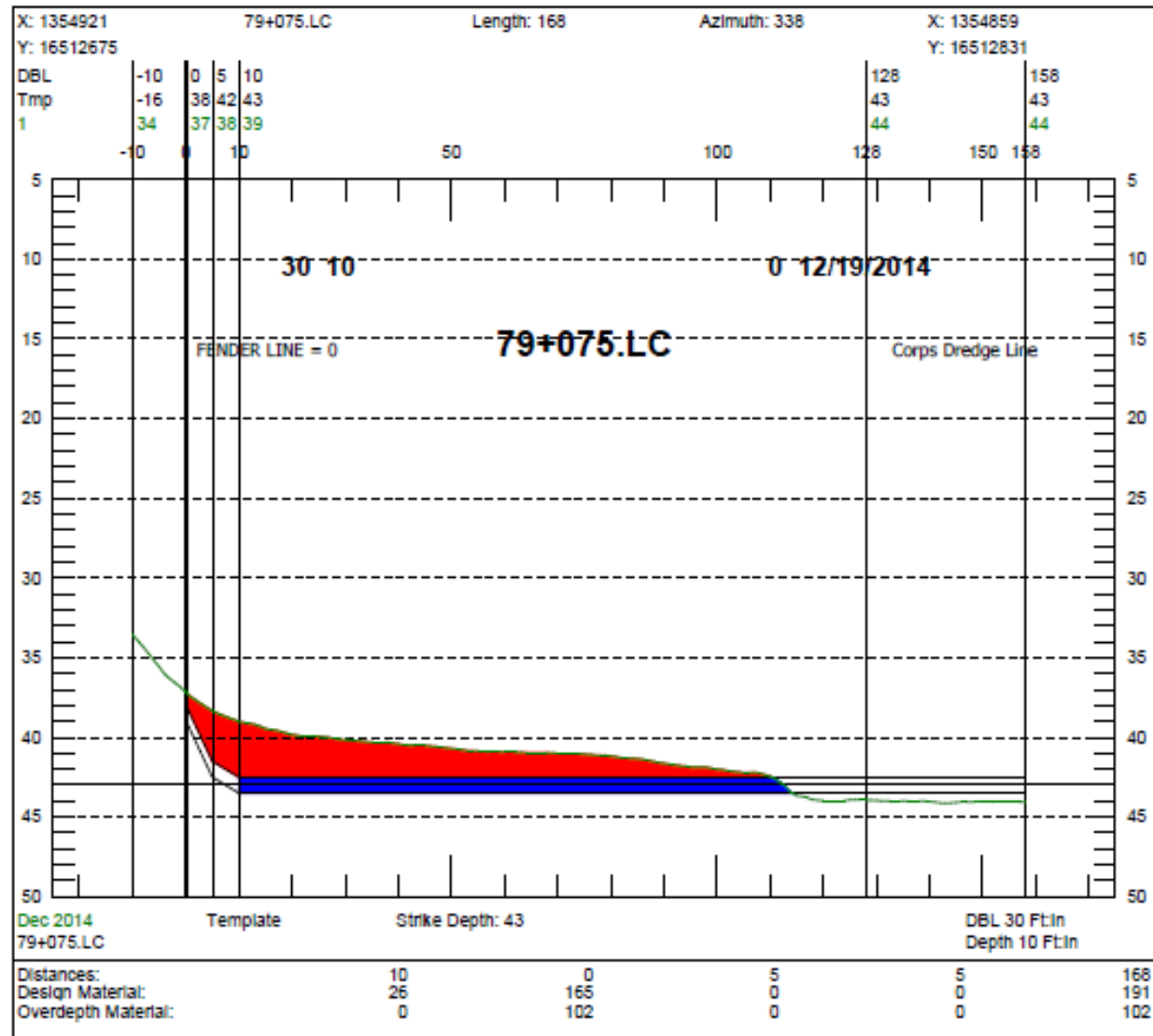
PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 LIQUID CARGO DOCK  
 LIQUID CARGO DOCK  
 SCALE: NOTED  
 DWN. BY: JMN  
 PLAN SHEET 1 OF 1  
 PAGE LCD-2 OF 20  
 JUN. 2015



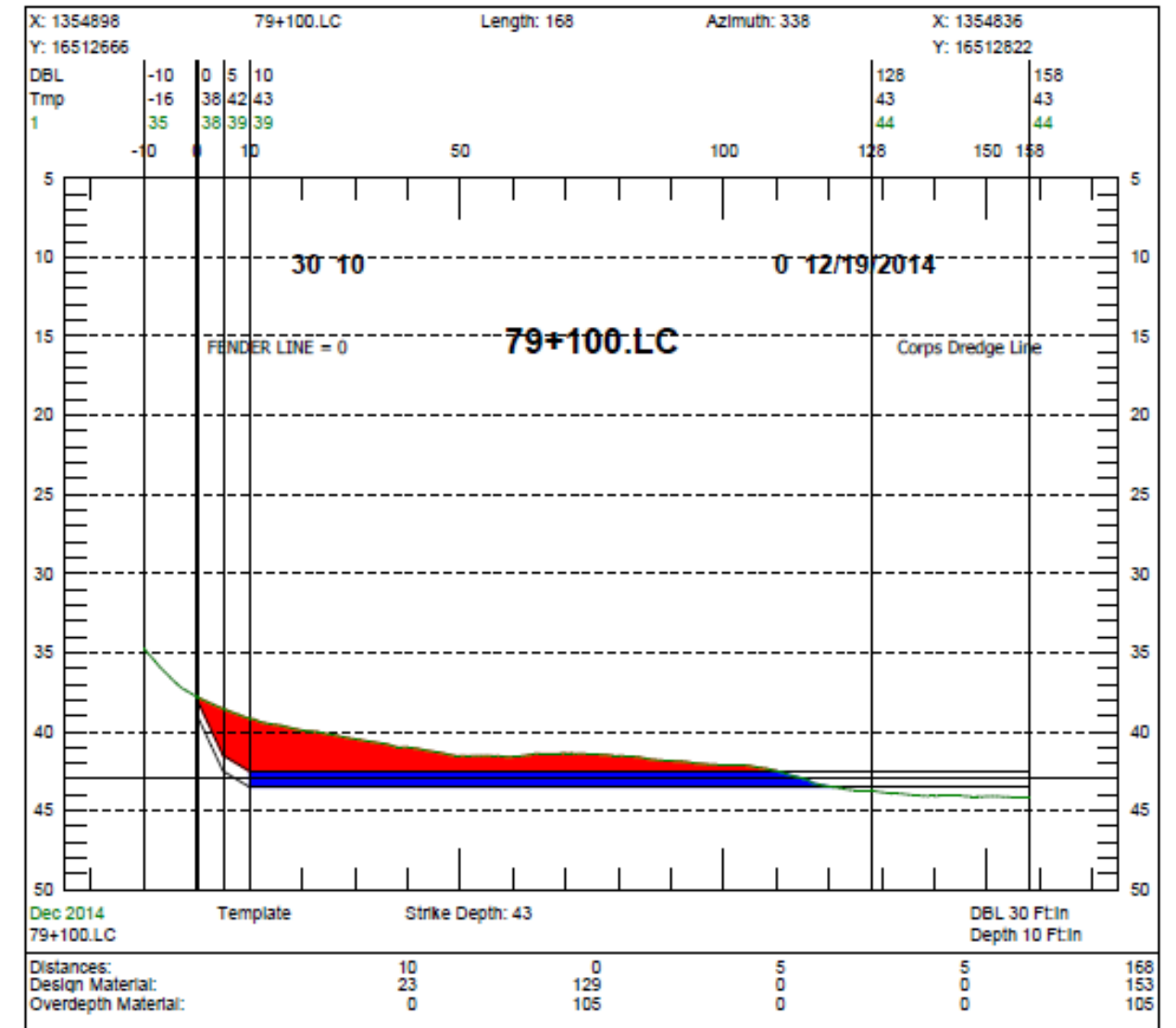
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Project	Port of Brownsville
Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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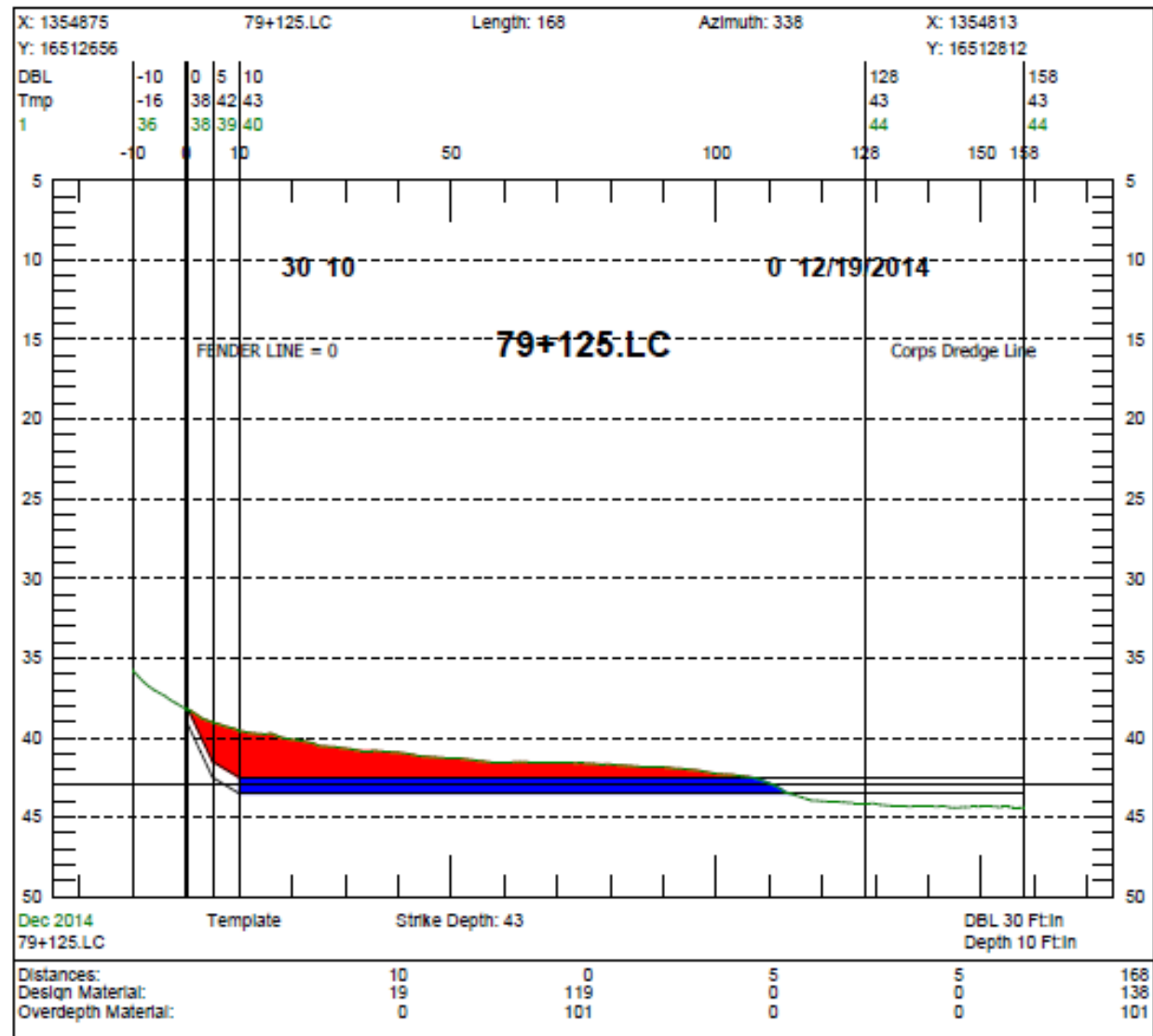
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Project	Port of Brownsville
Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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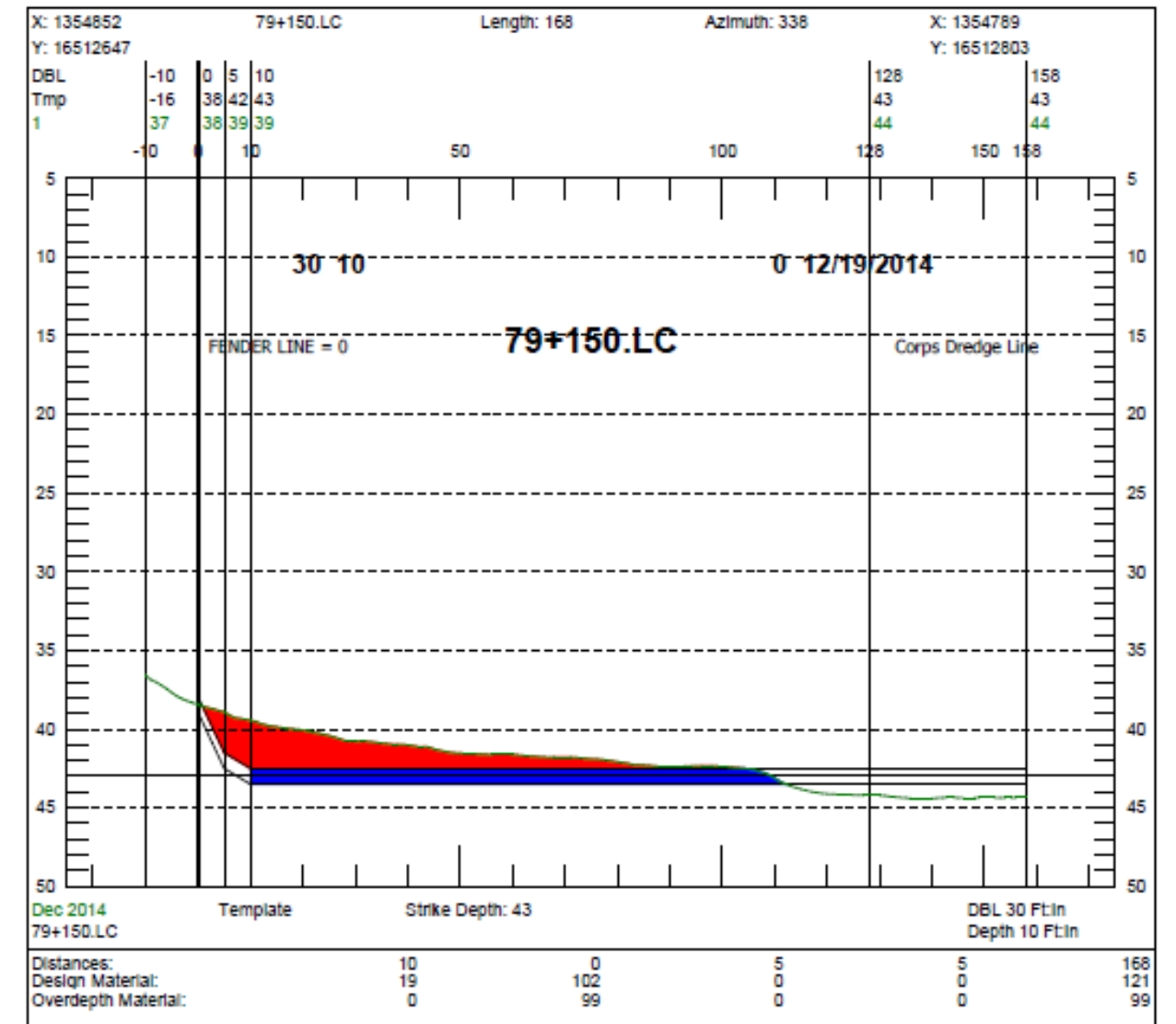
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Project	Port of Brownsville
Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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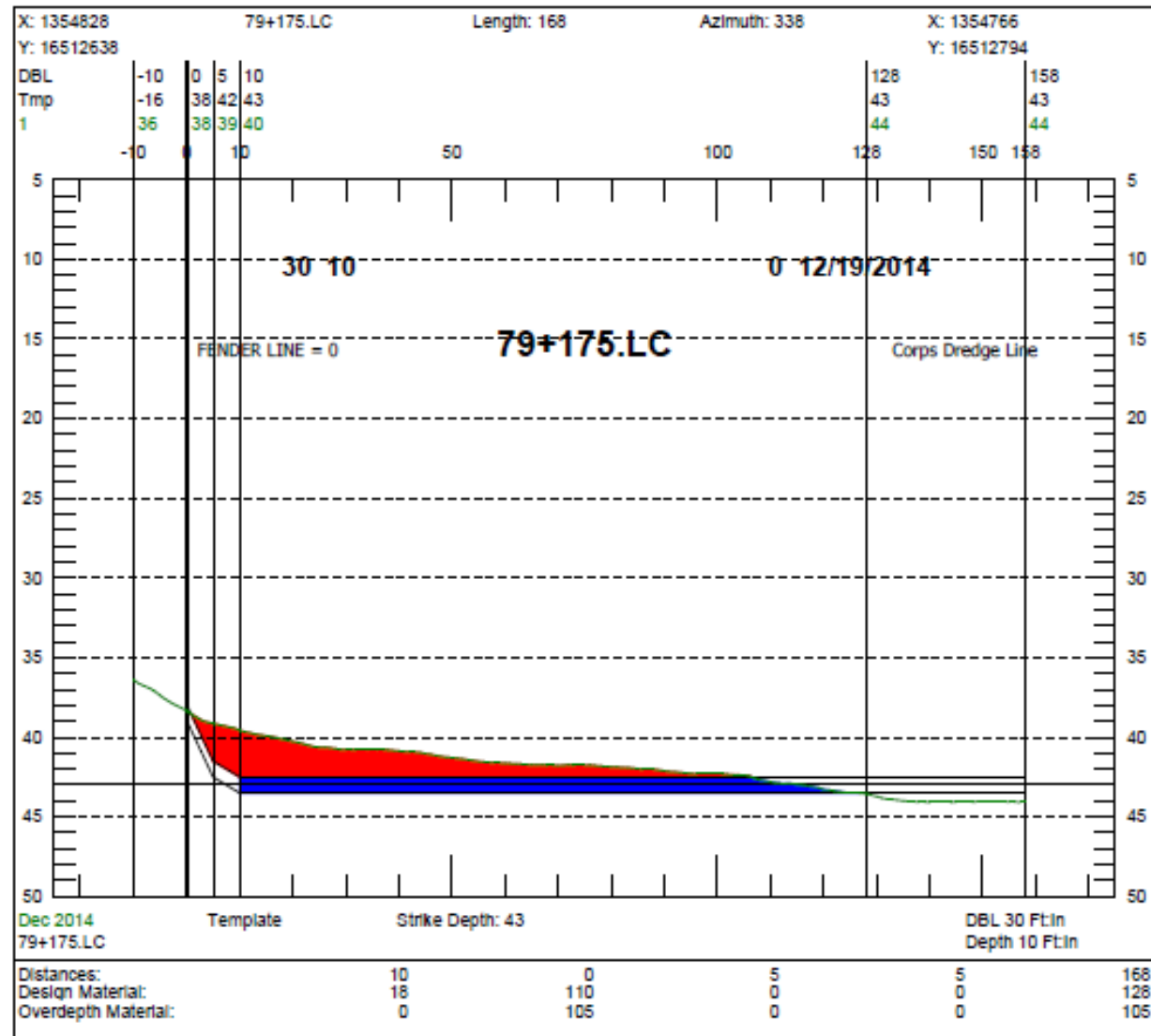
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Project	Port of Brownsville
Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



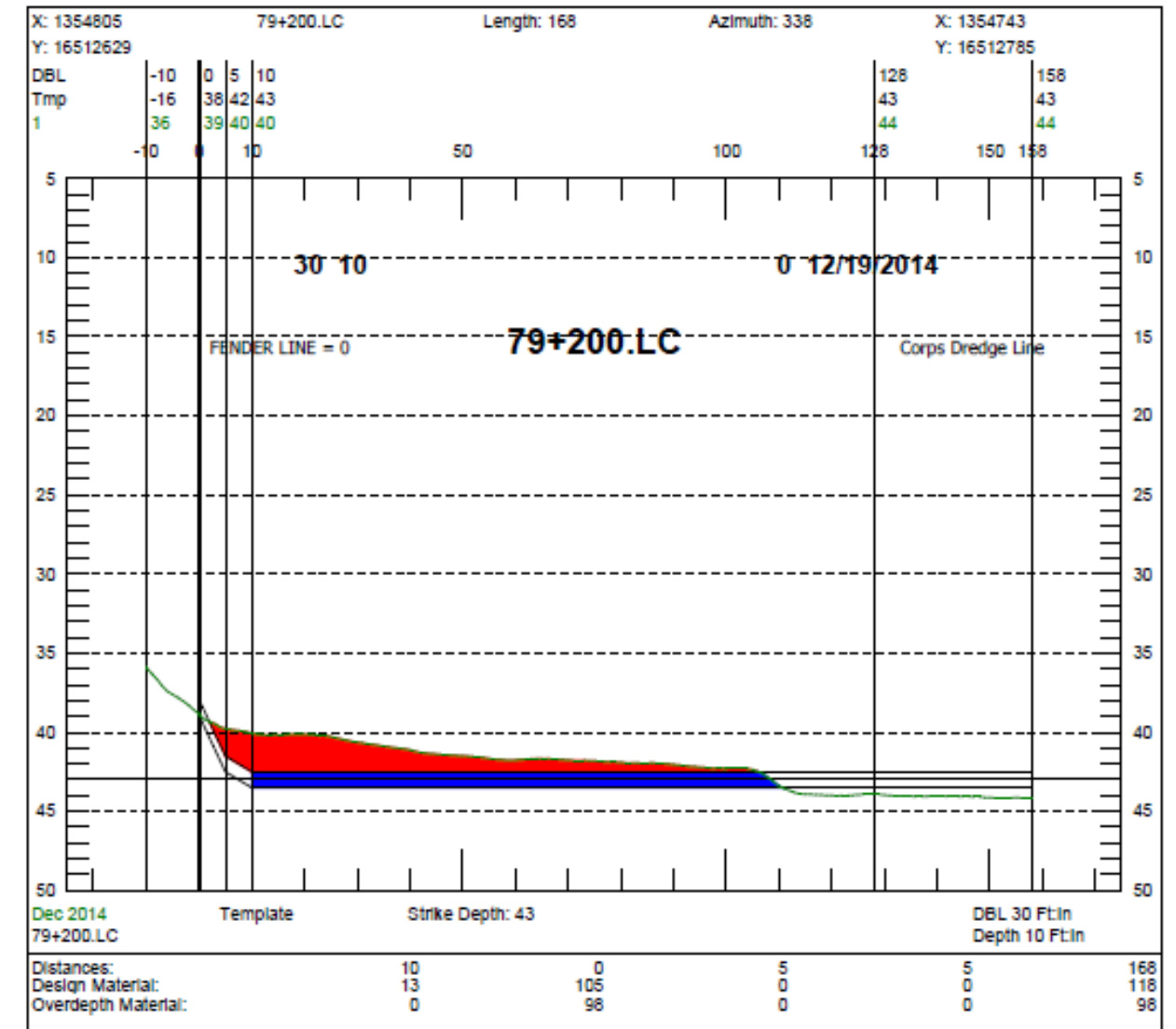
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Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



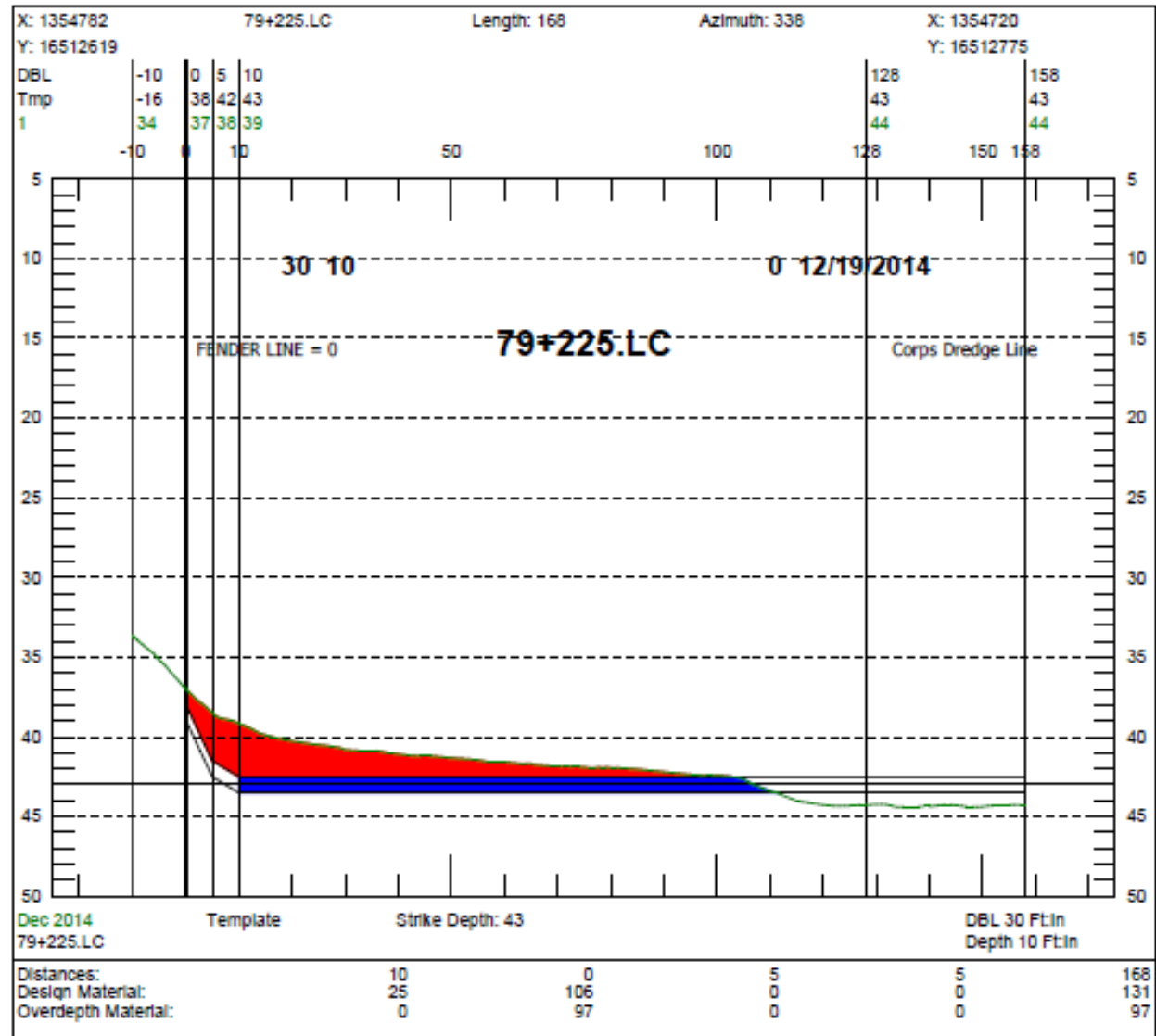
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Project	Port of Brownsville
Job	
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Surveyor	Nalsmith Marine Services
Date	12/19/2014
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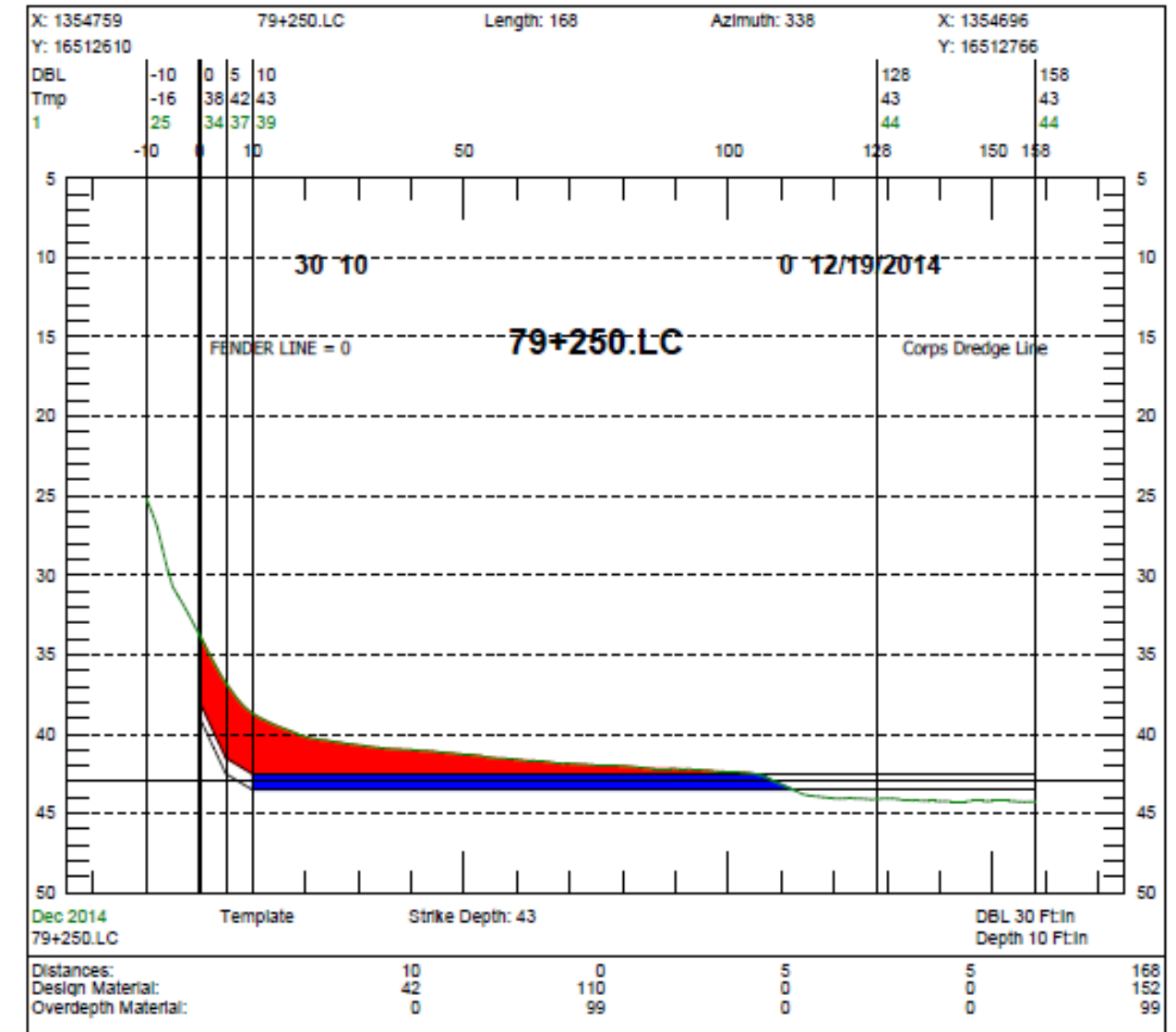
Sheet 7 Of 35	Dec 2014
Project	Port of Brownsville
Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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Sheet 8 Of 35	Dec 2014
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Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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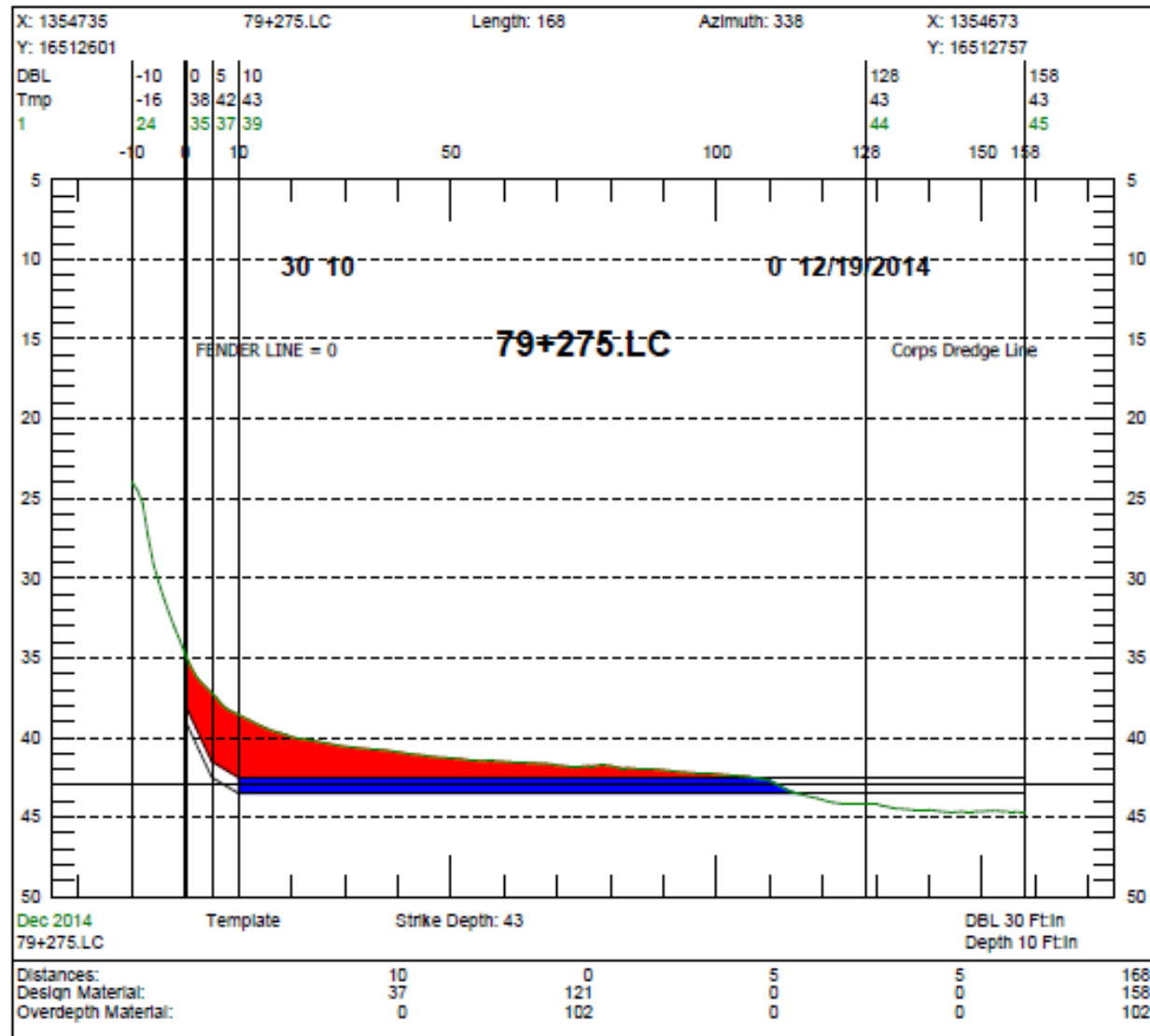


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Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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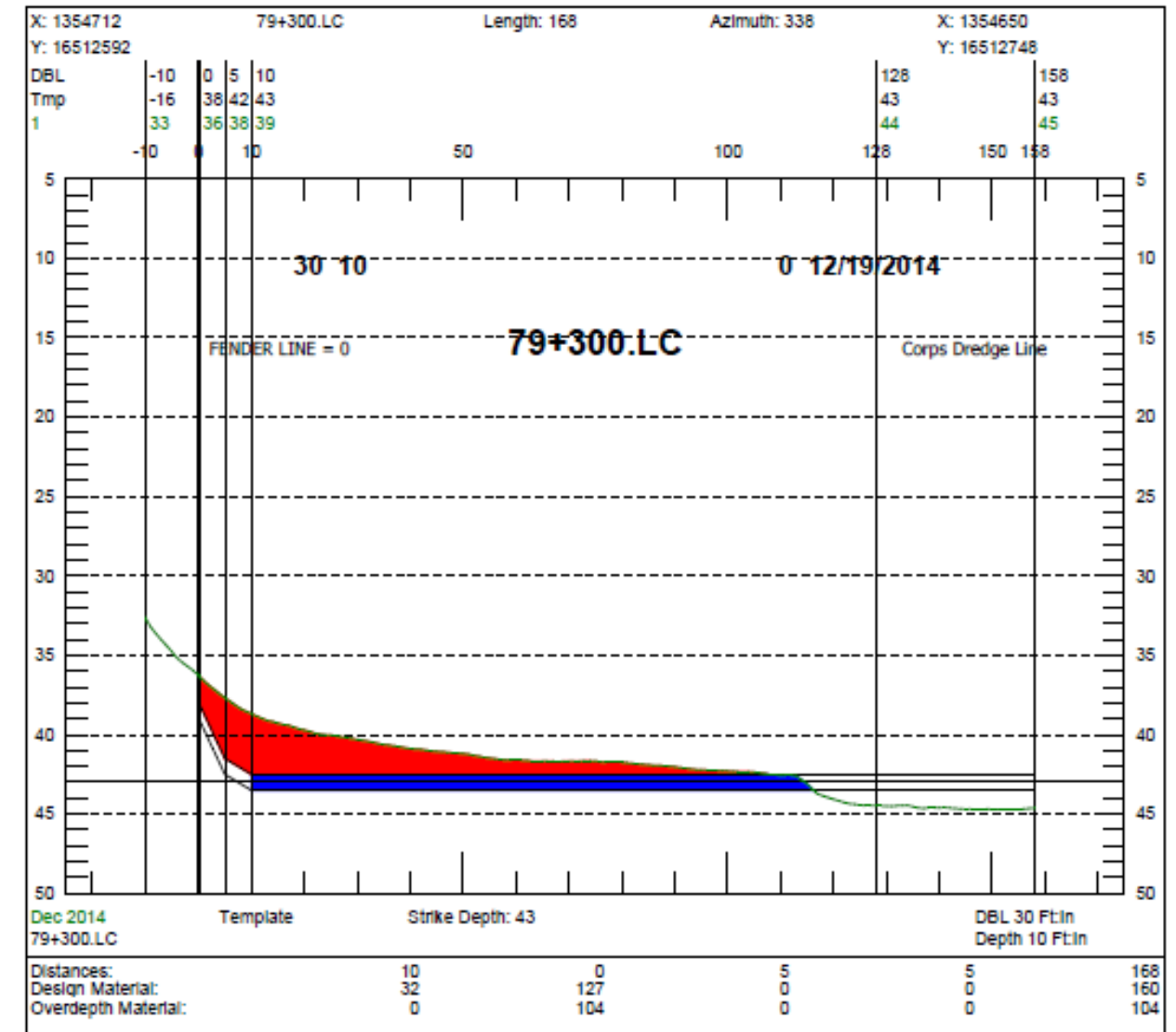


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Job	
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Surveyor	Nalsmith Marine Services
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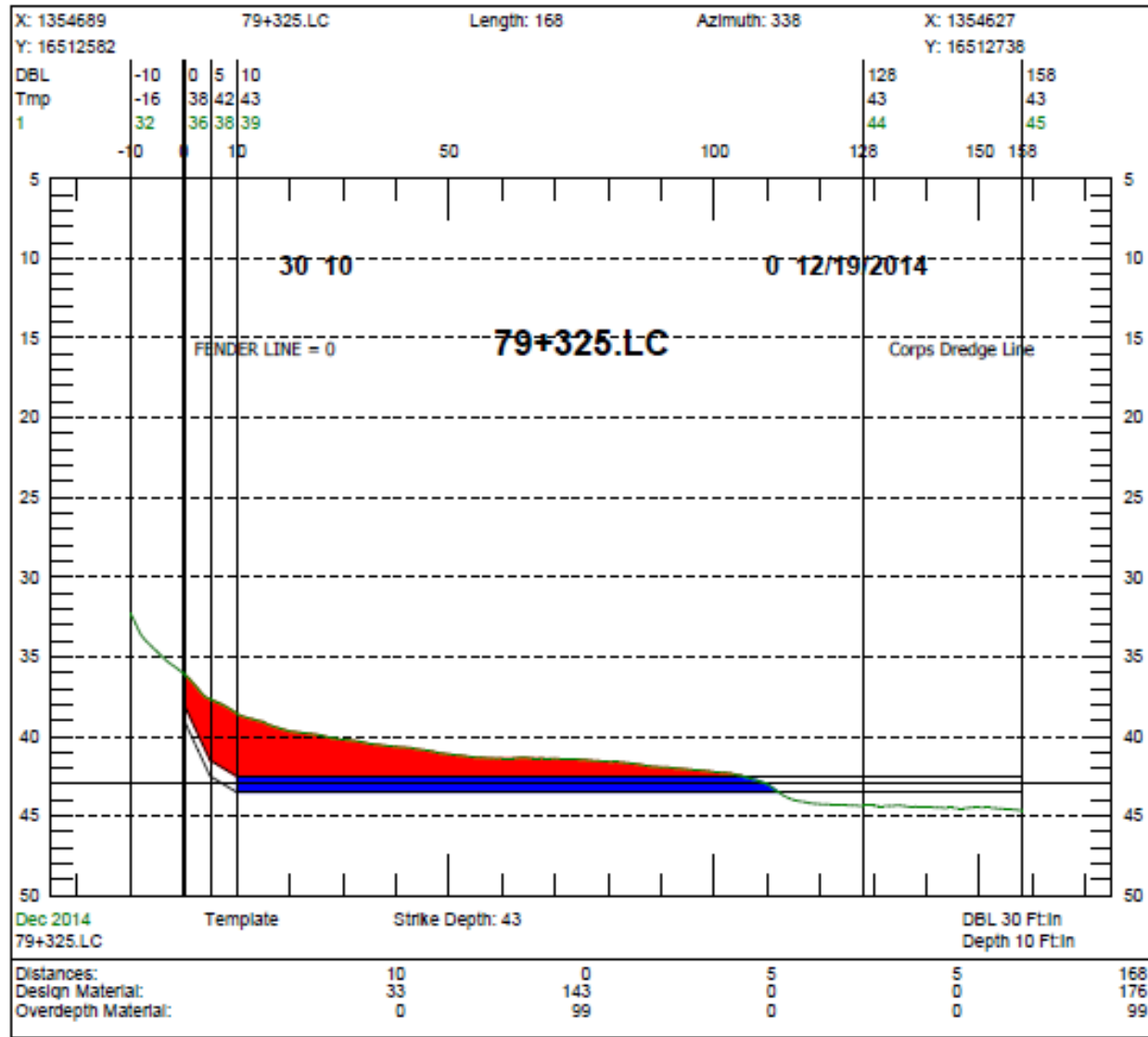




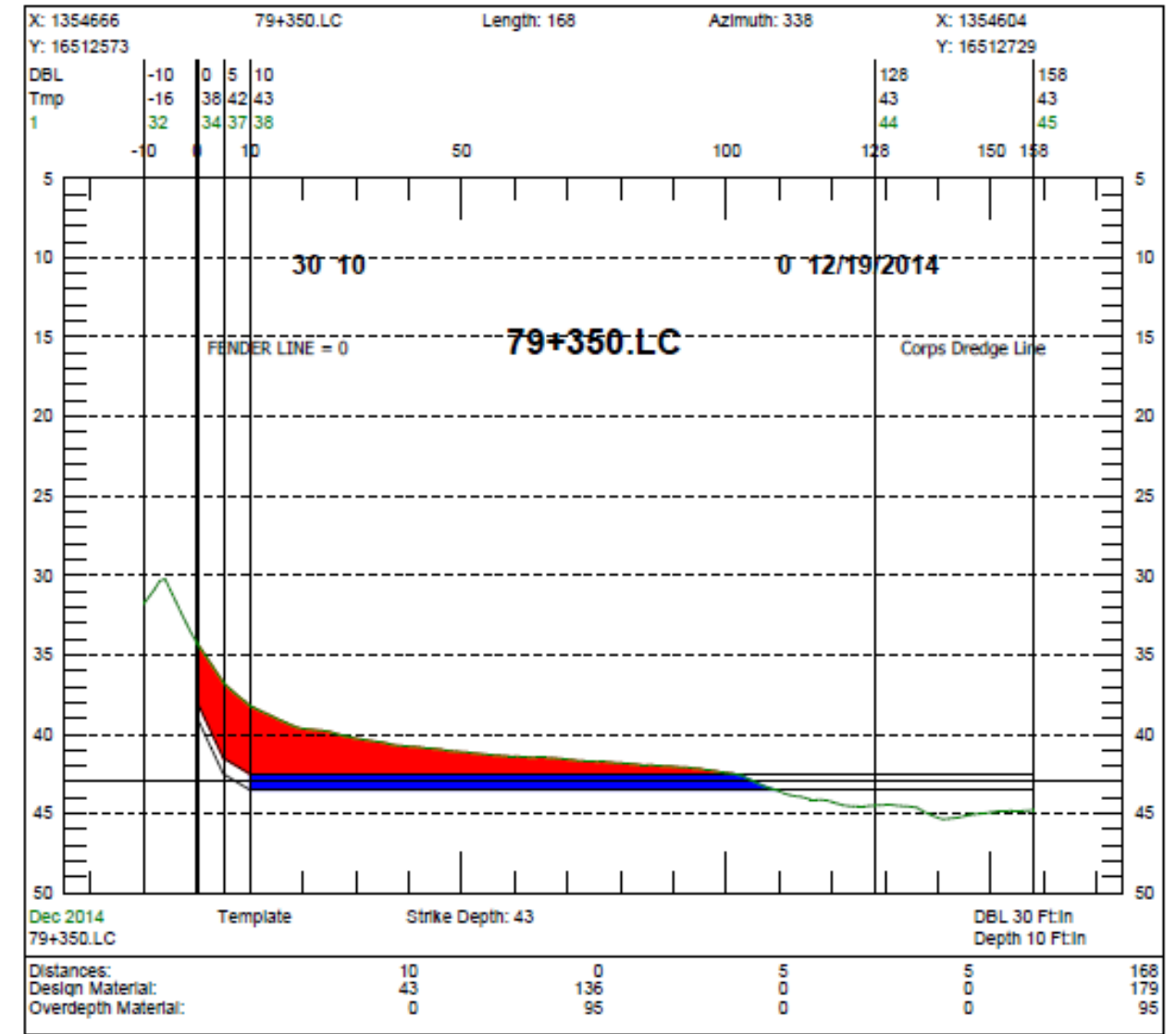
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Job	
Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
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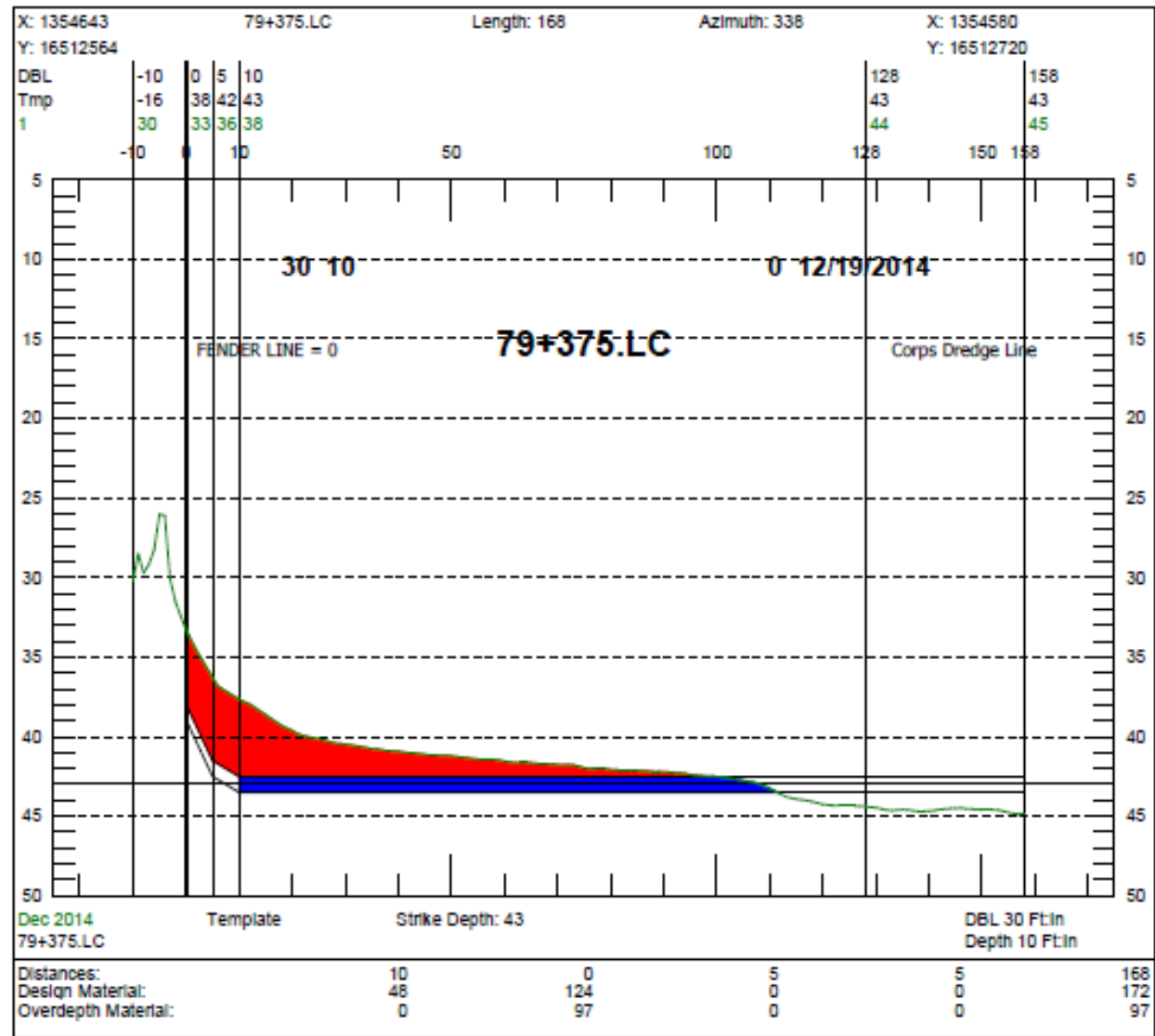
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Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
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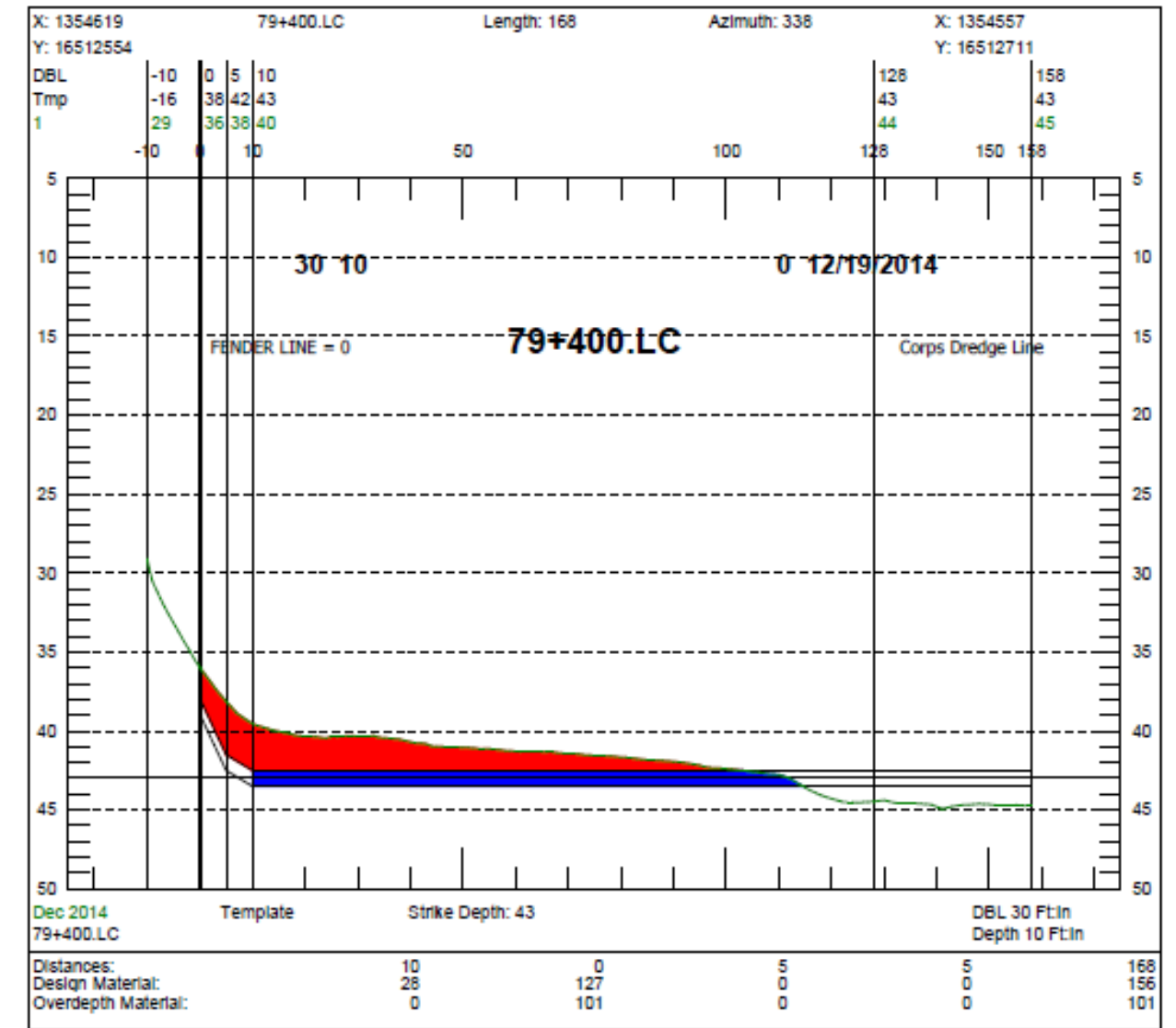
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Area	Liquid Cargo Dock
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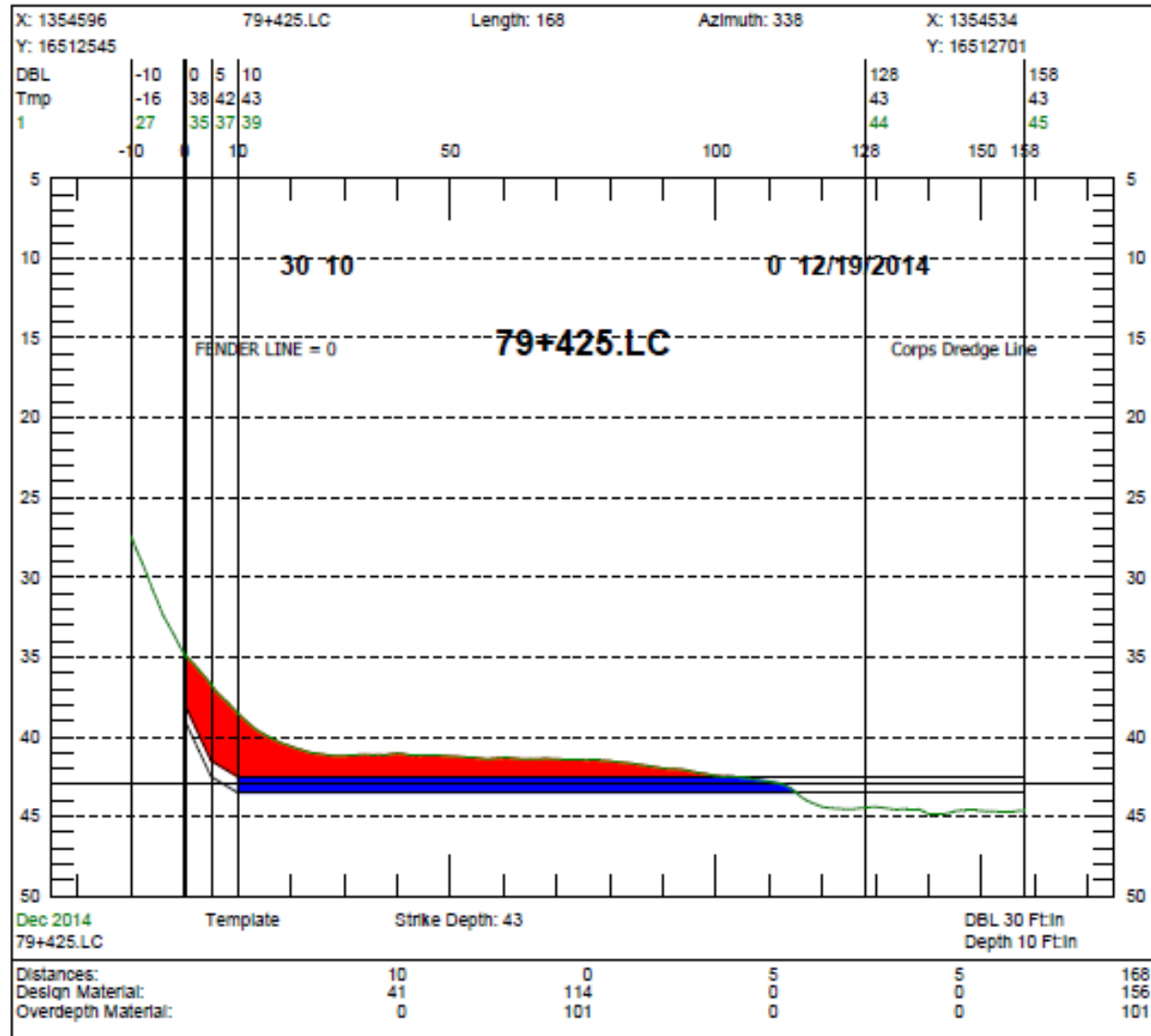
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Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
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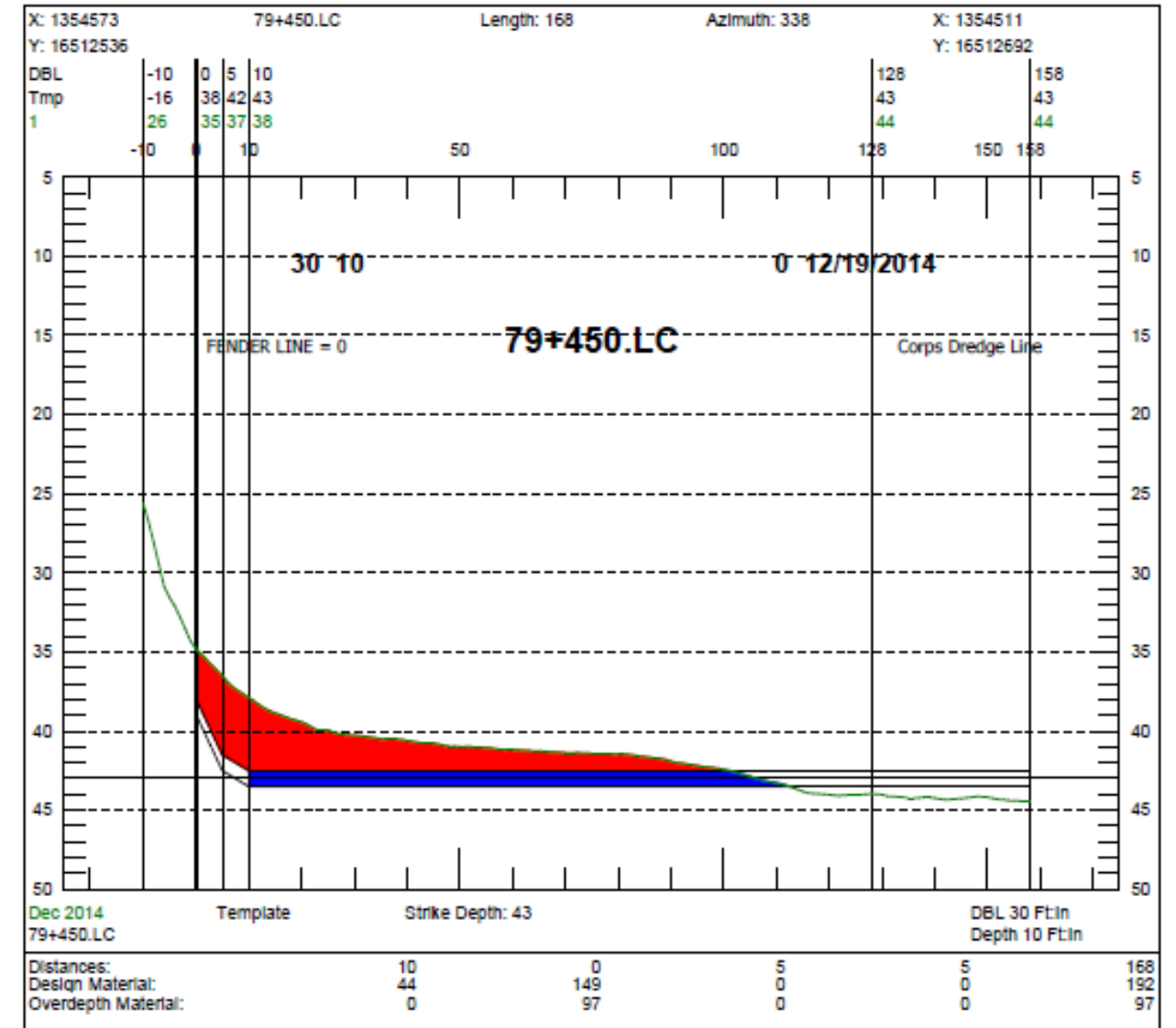
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Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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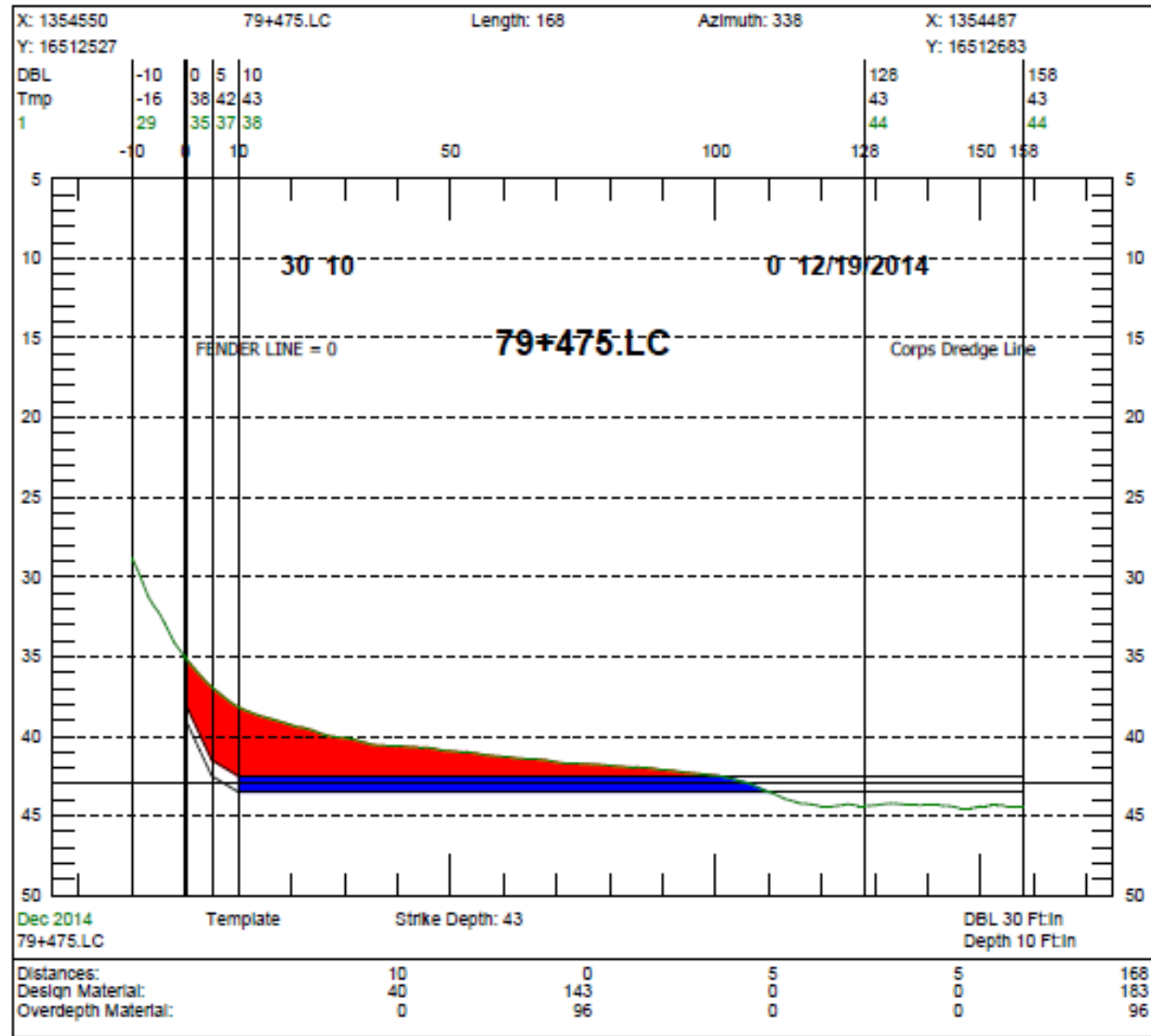
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Area	Liquid Cargo Dock
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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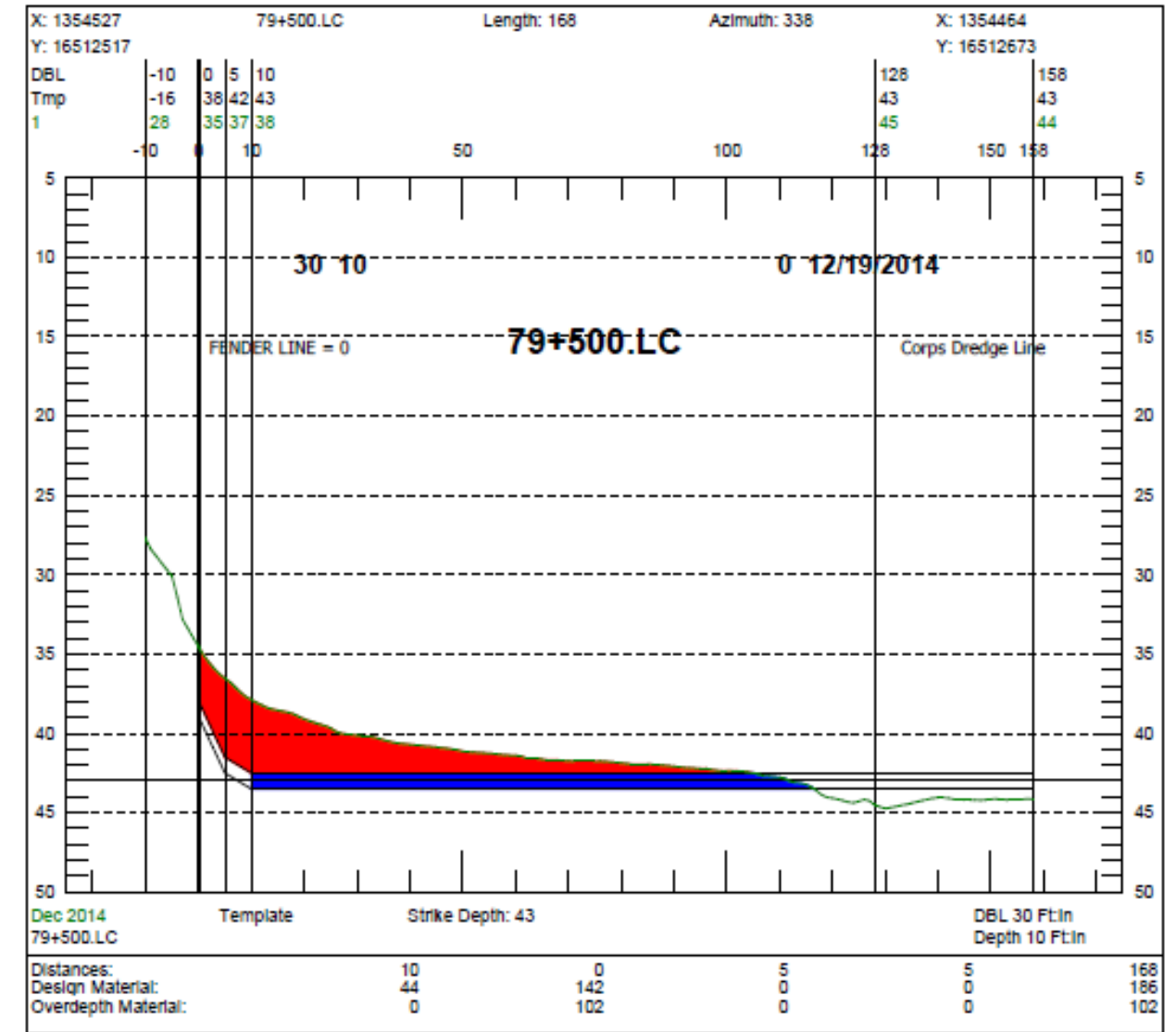
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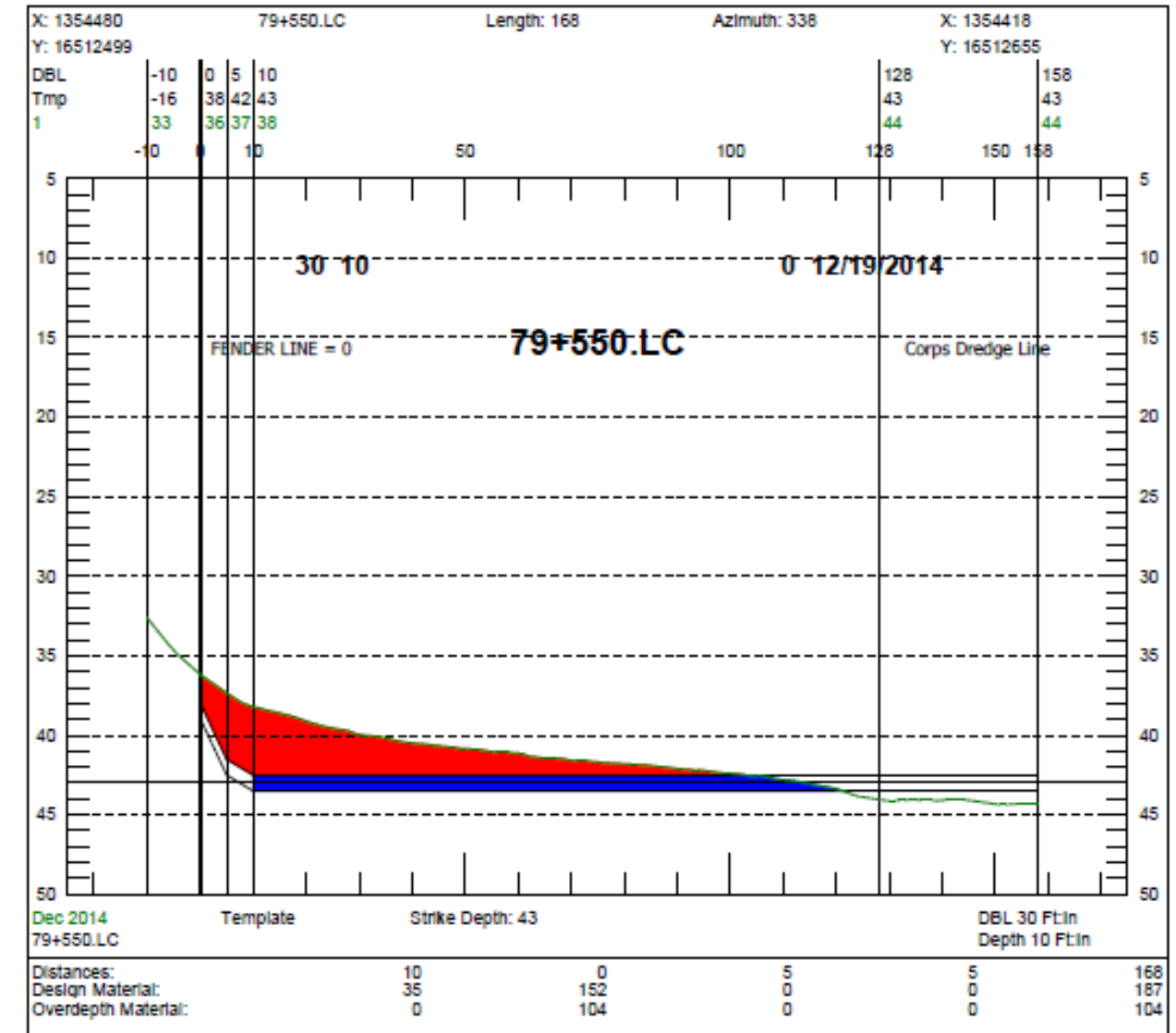
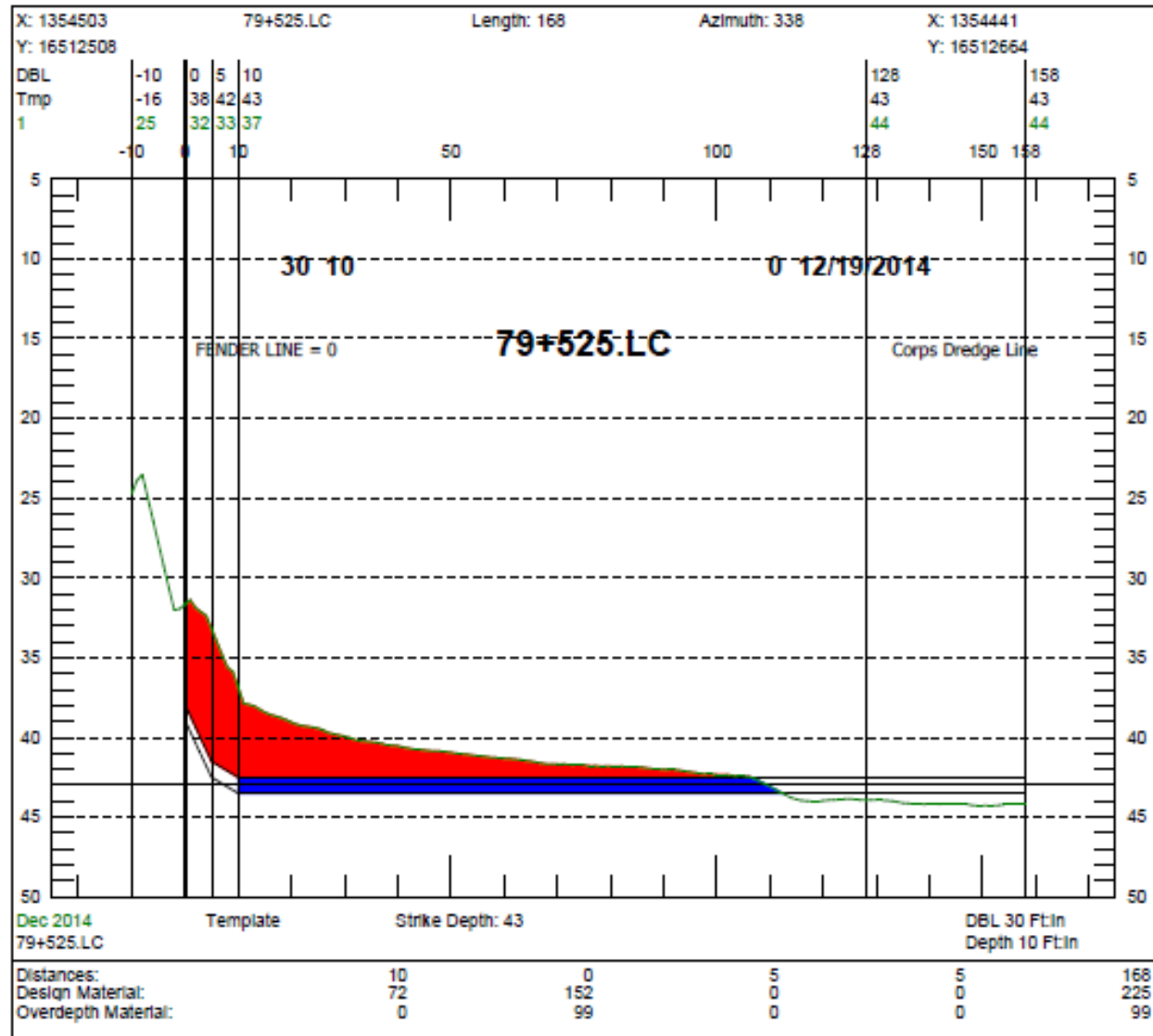
Sheet 18 Of 35	Dec 2014
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Job	
Area	Liquid Cargo Dock
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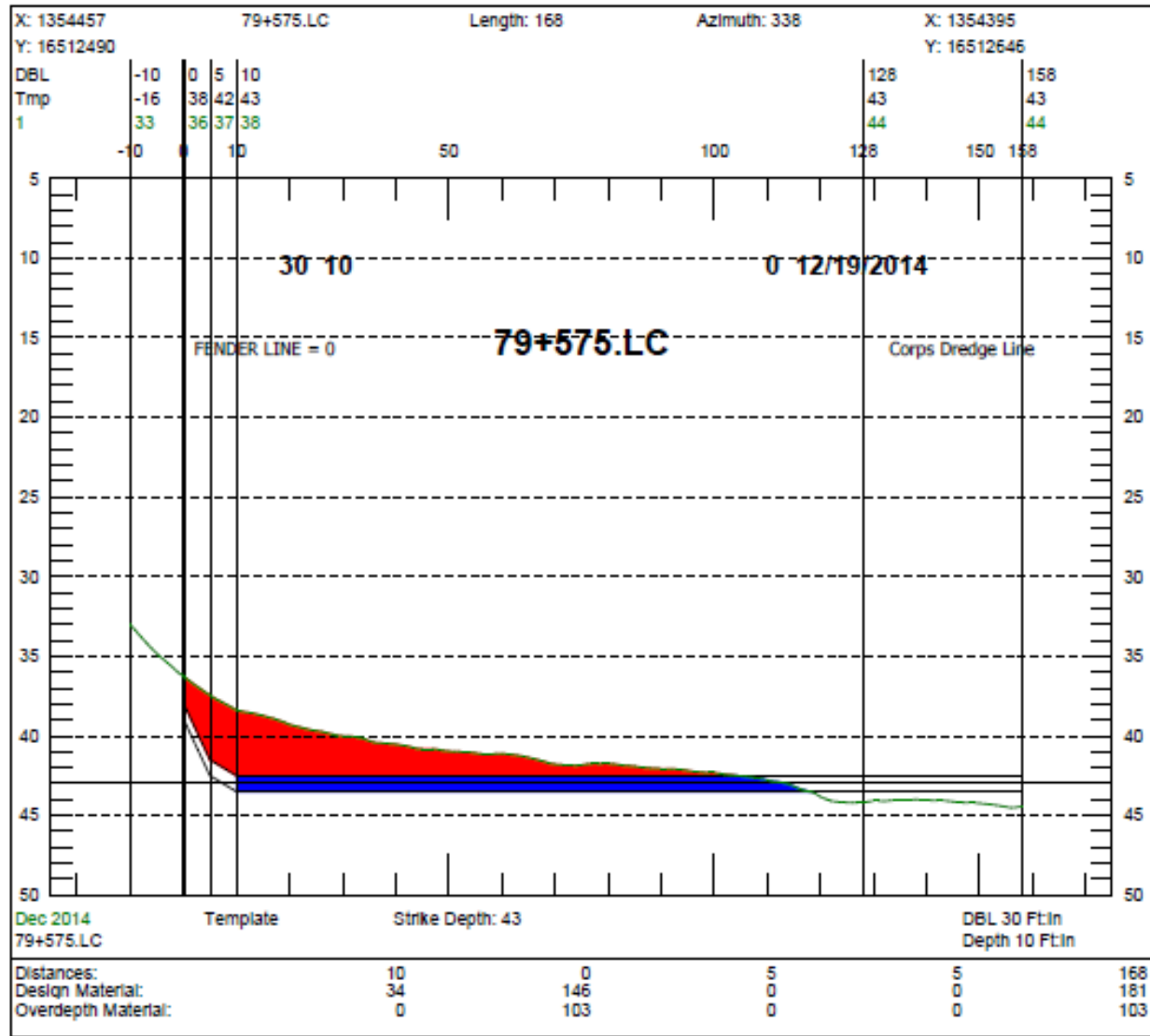


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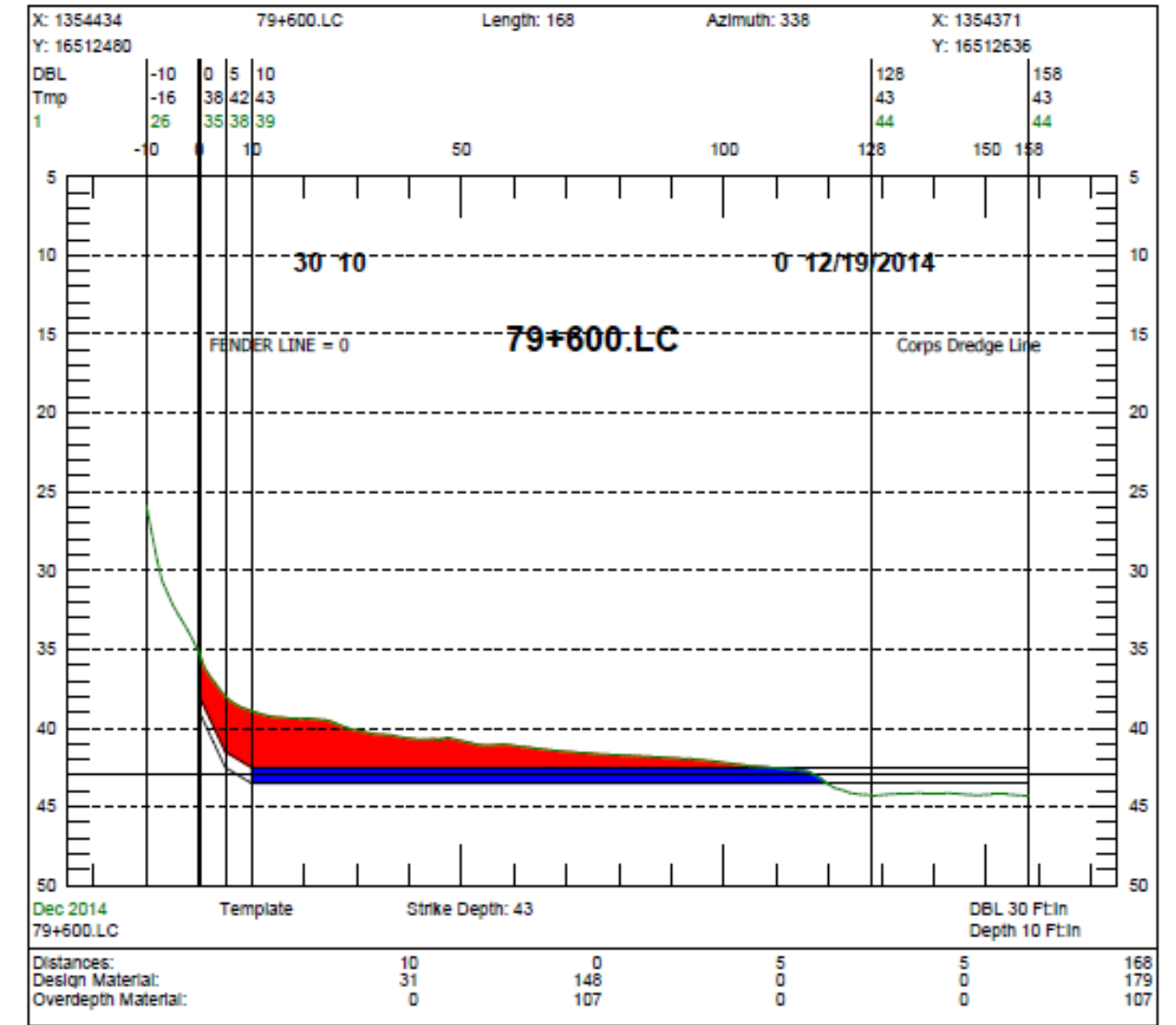


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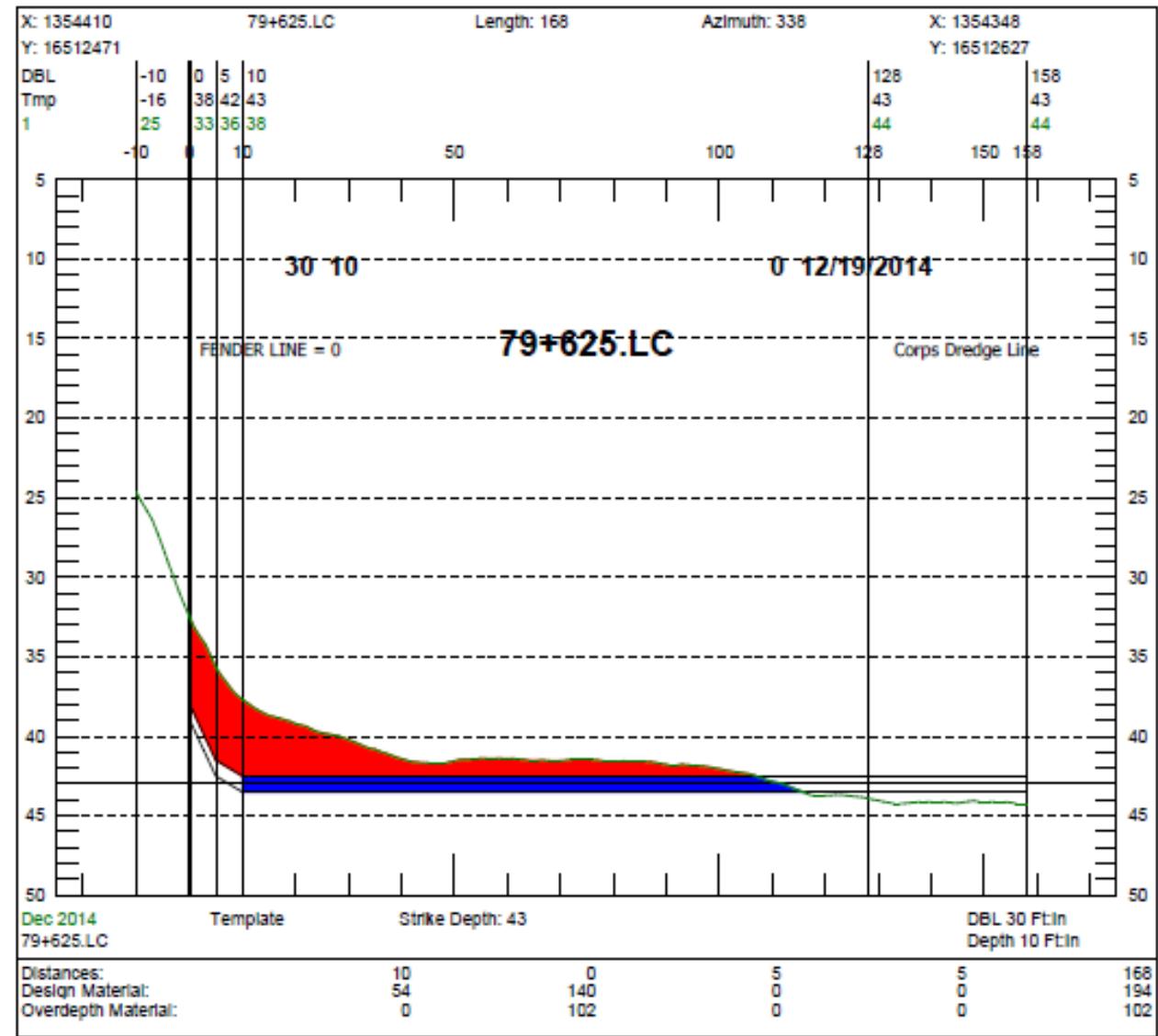
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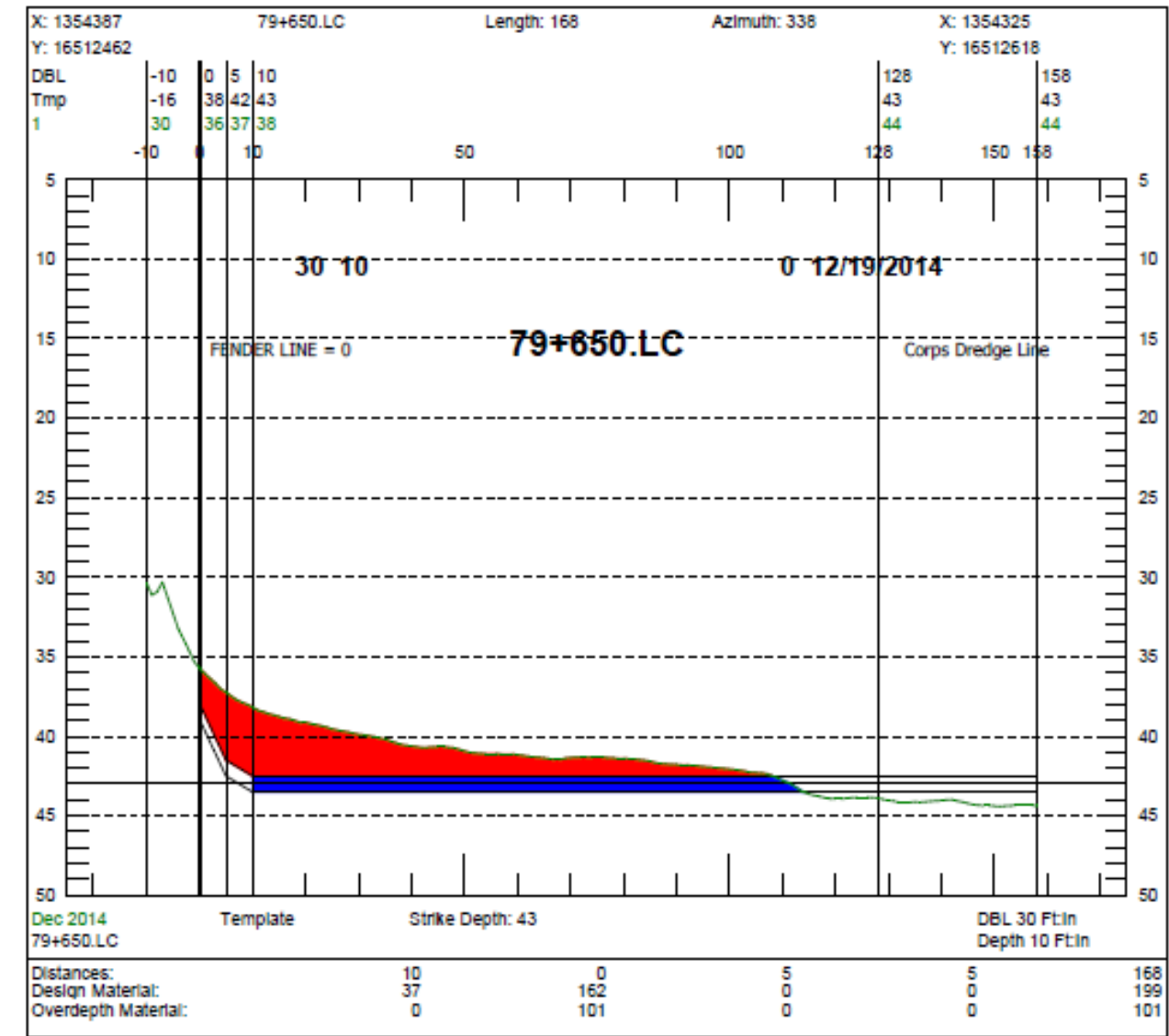
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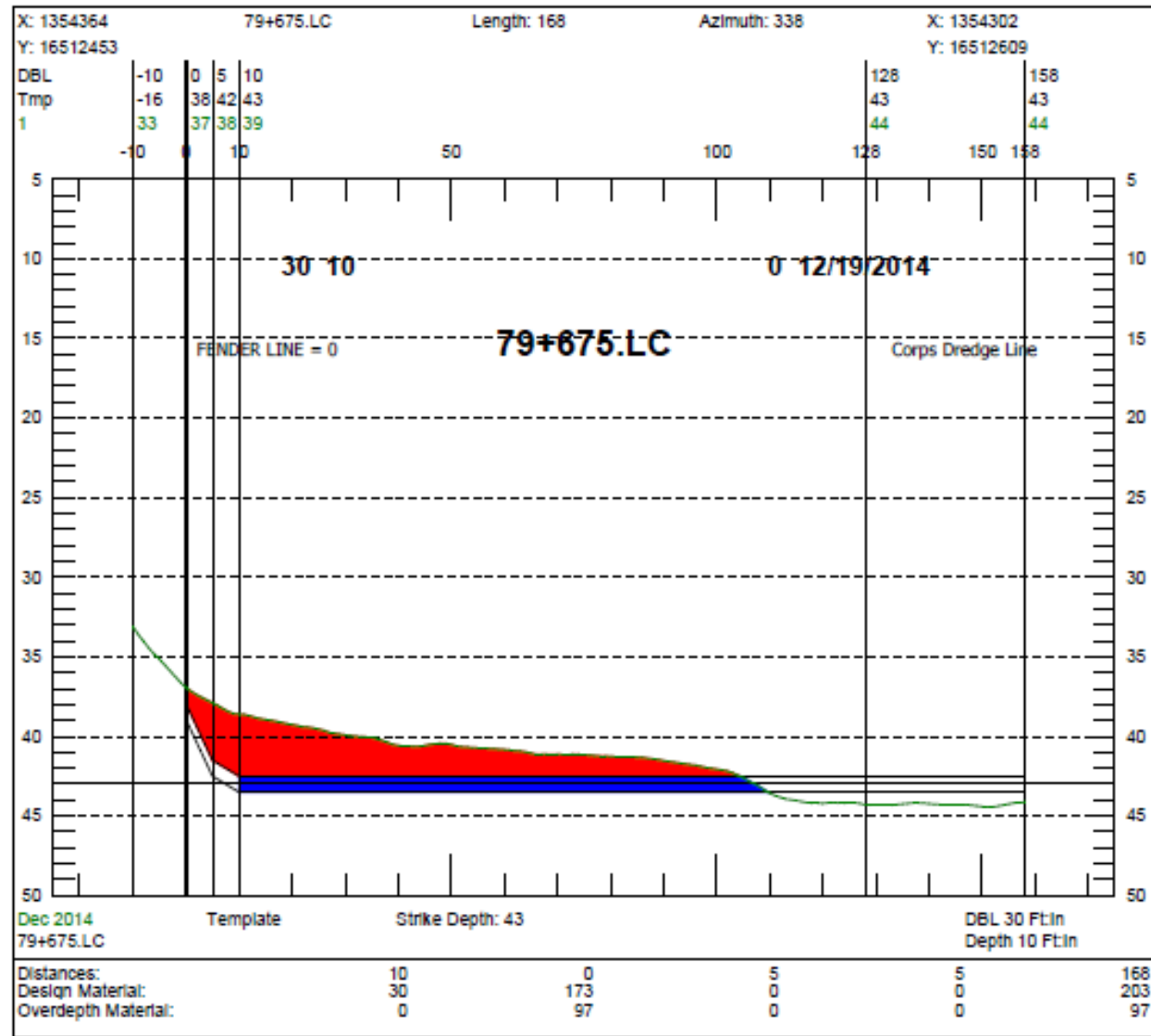


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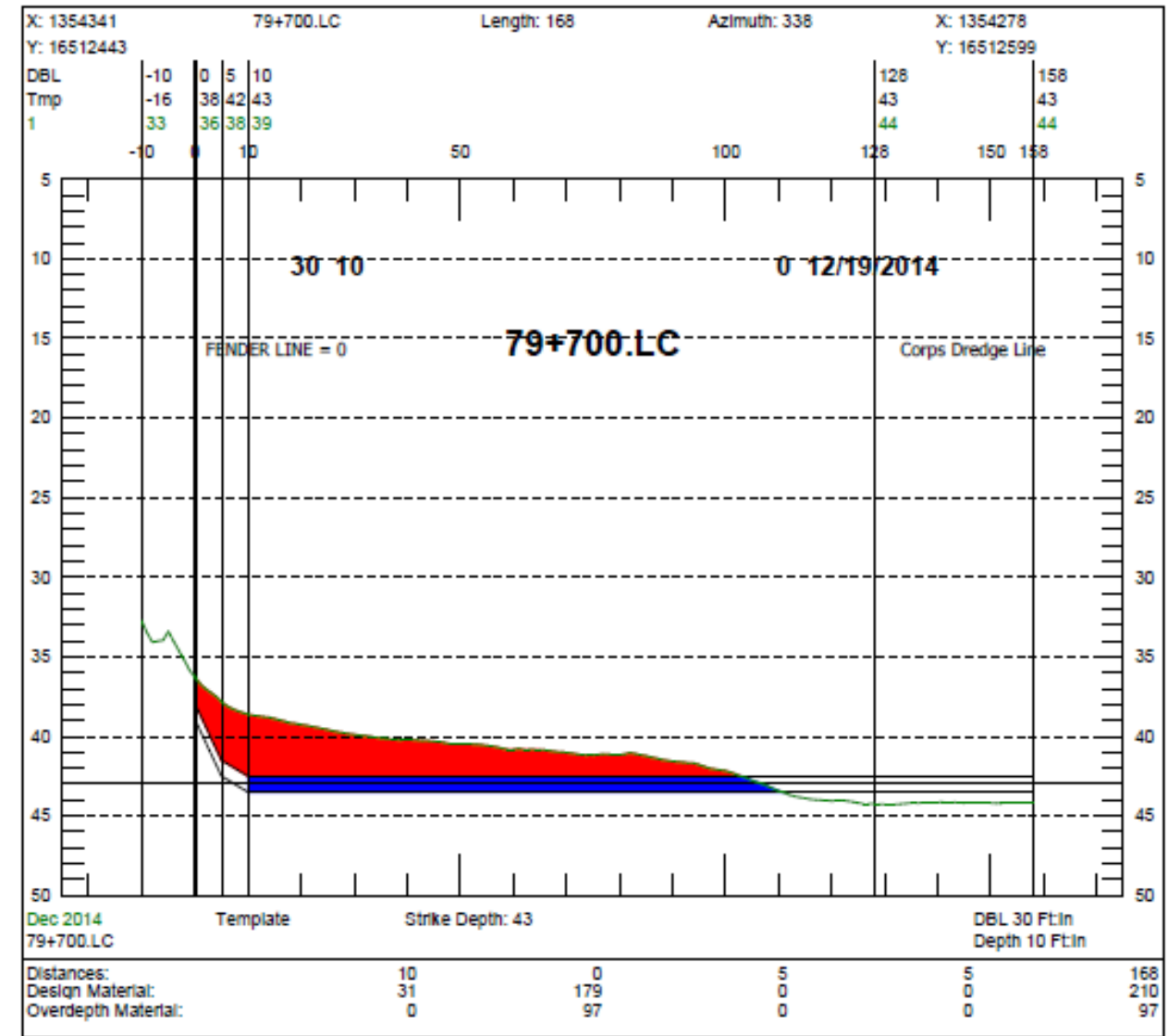


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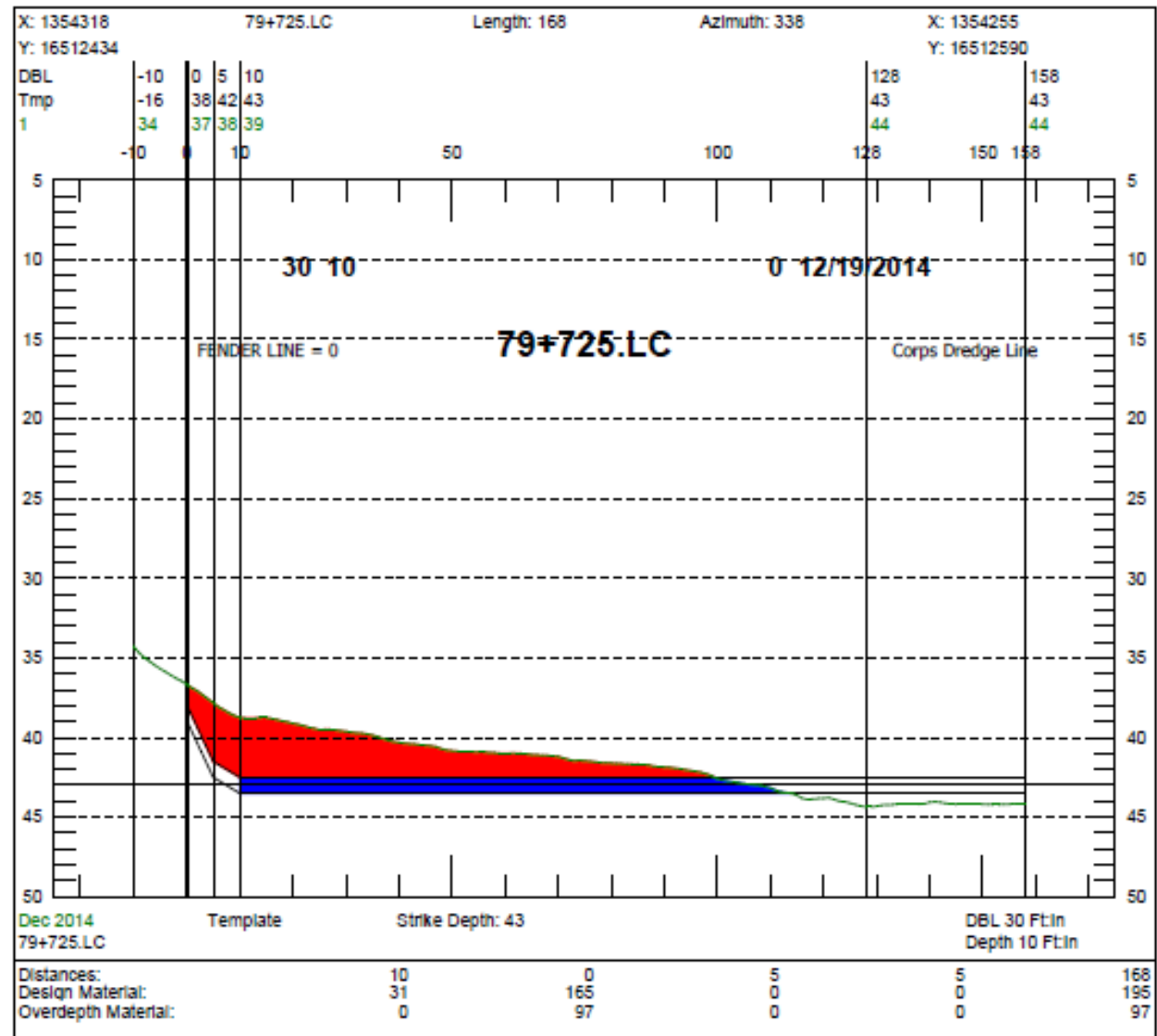




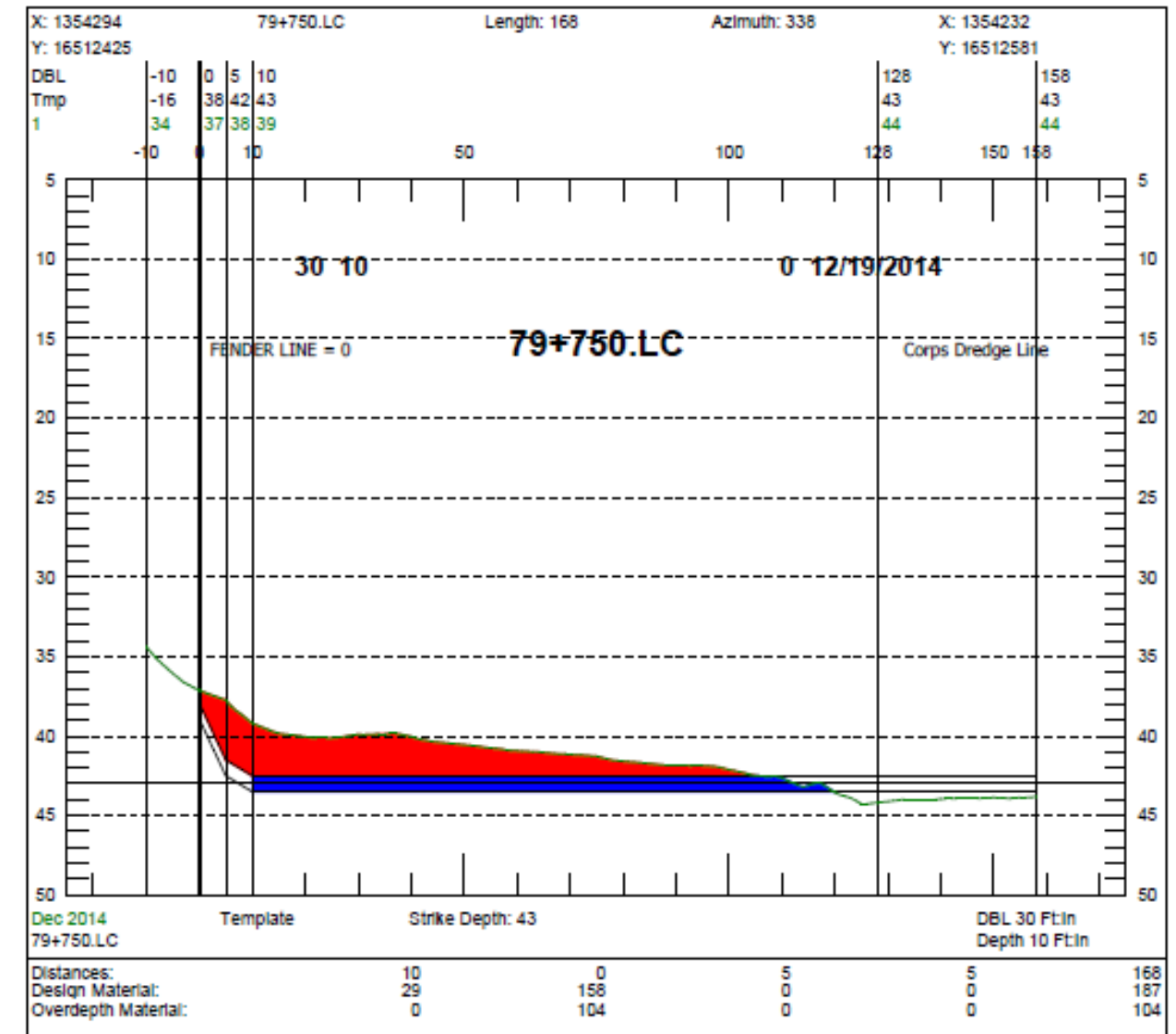
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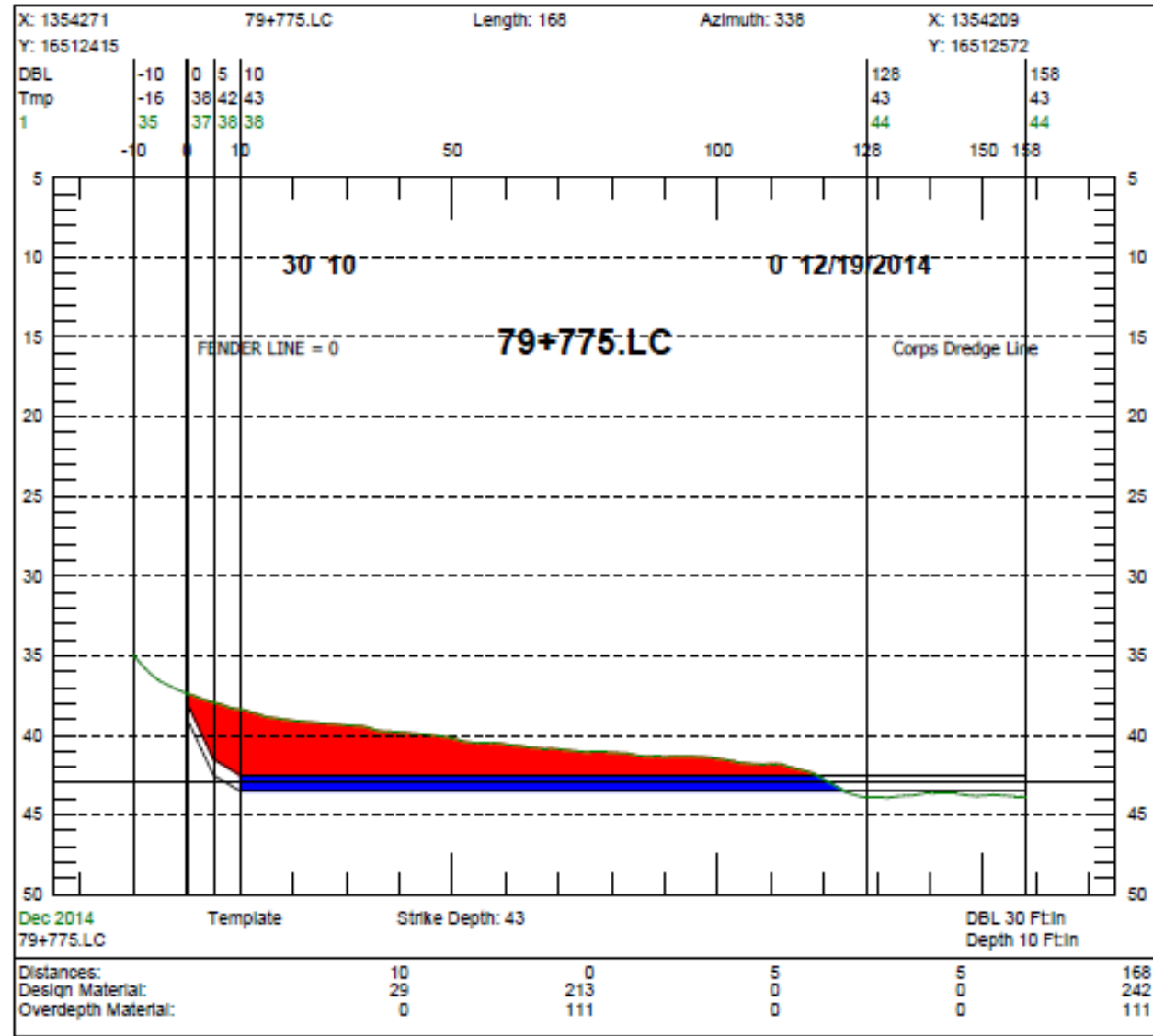
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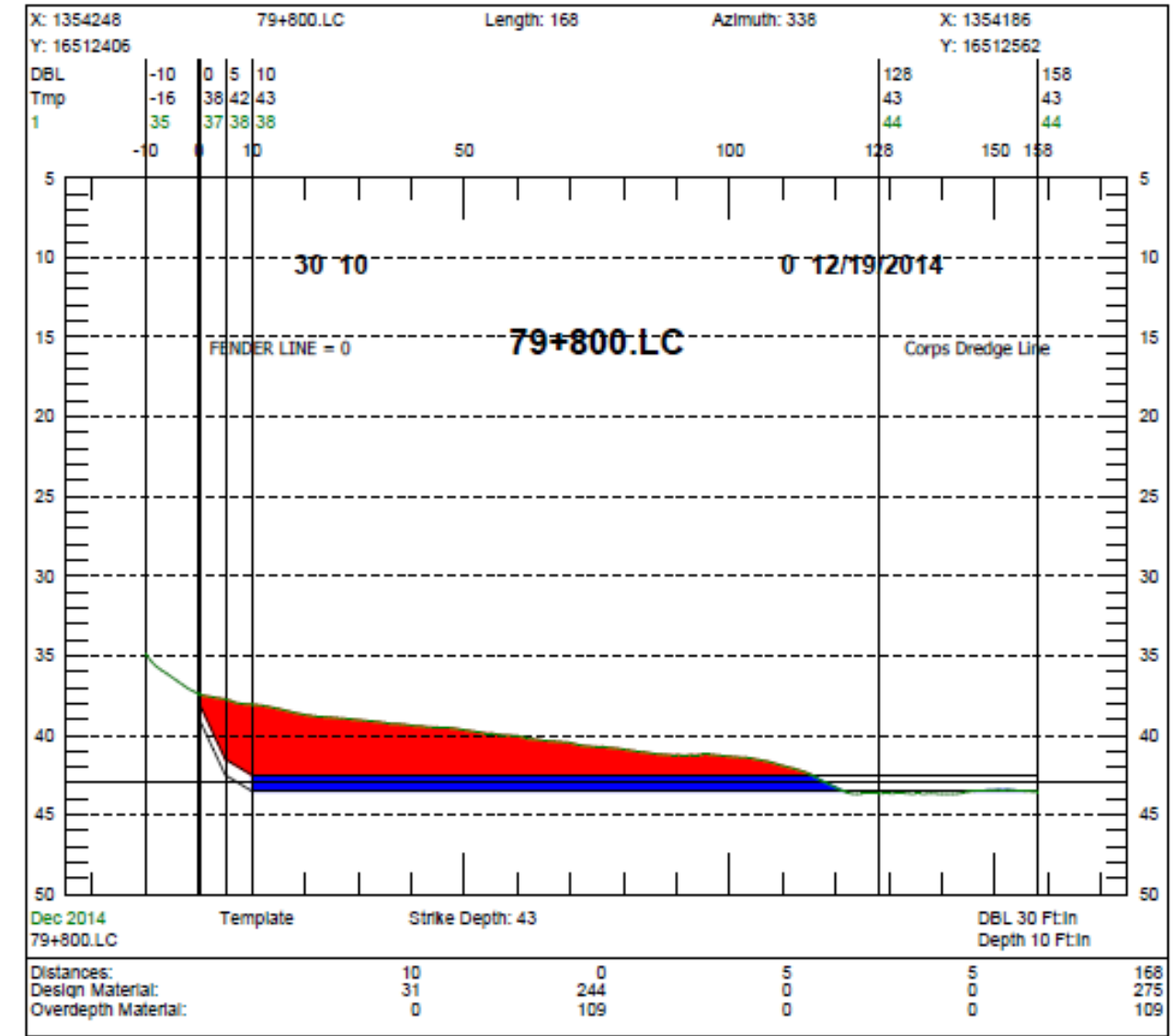
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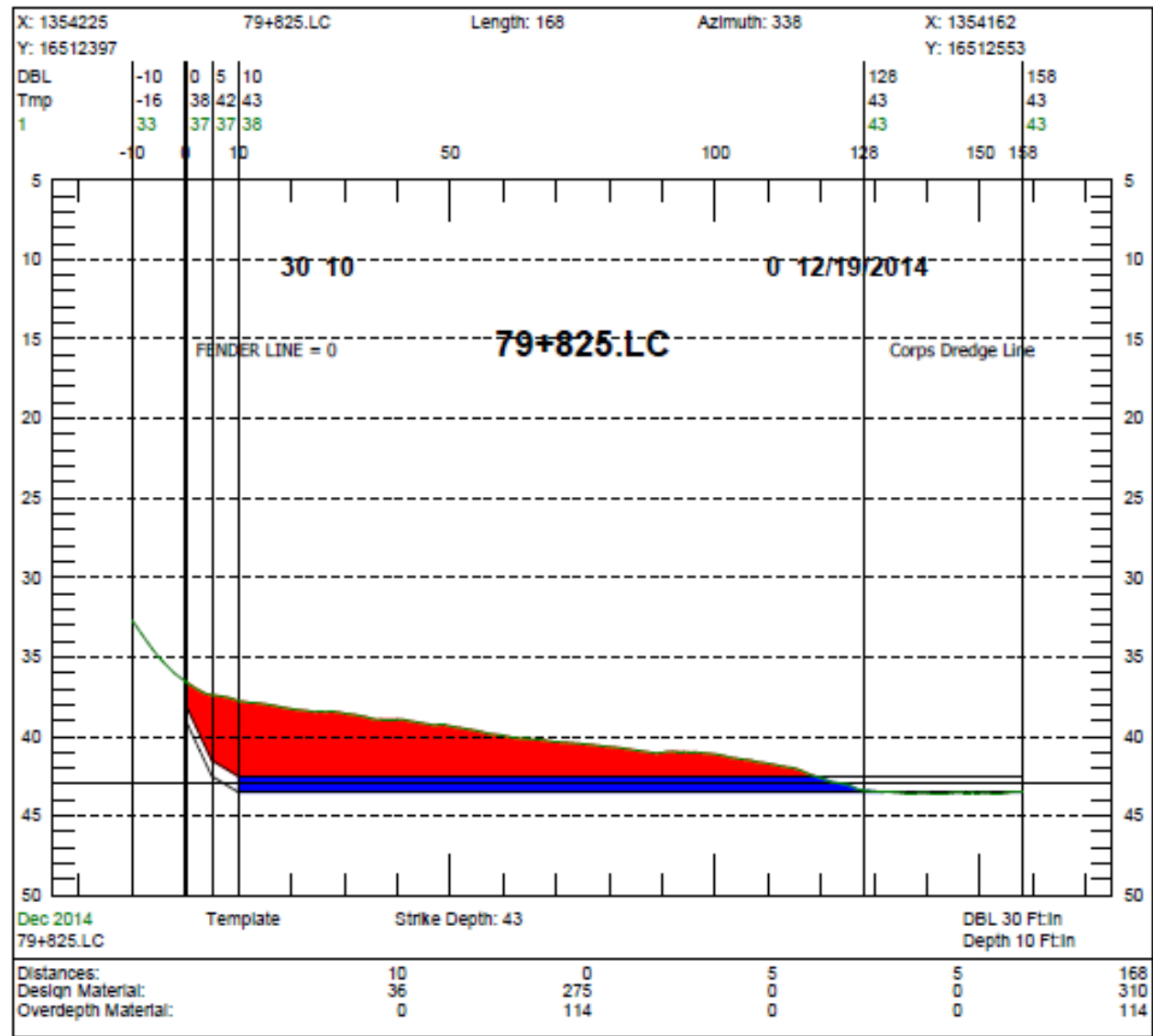
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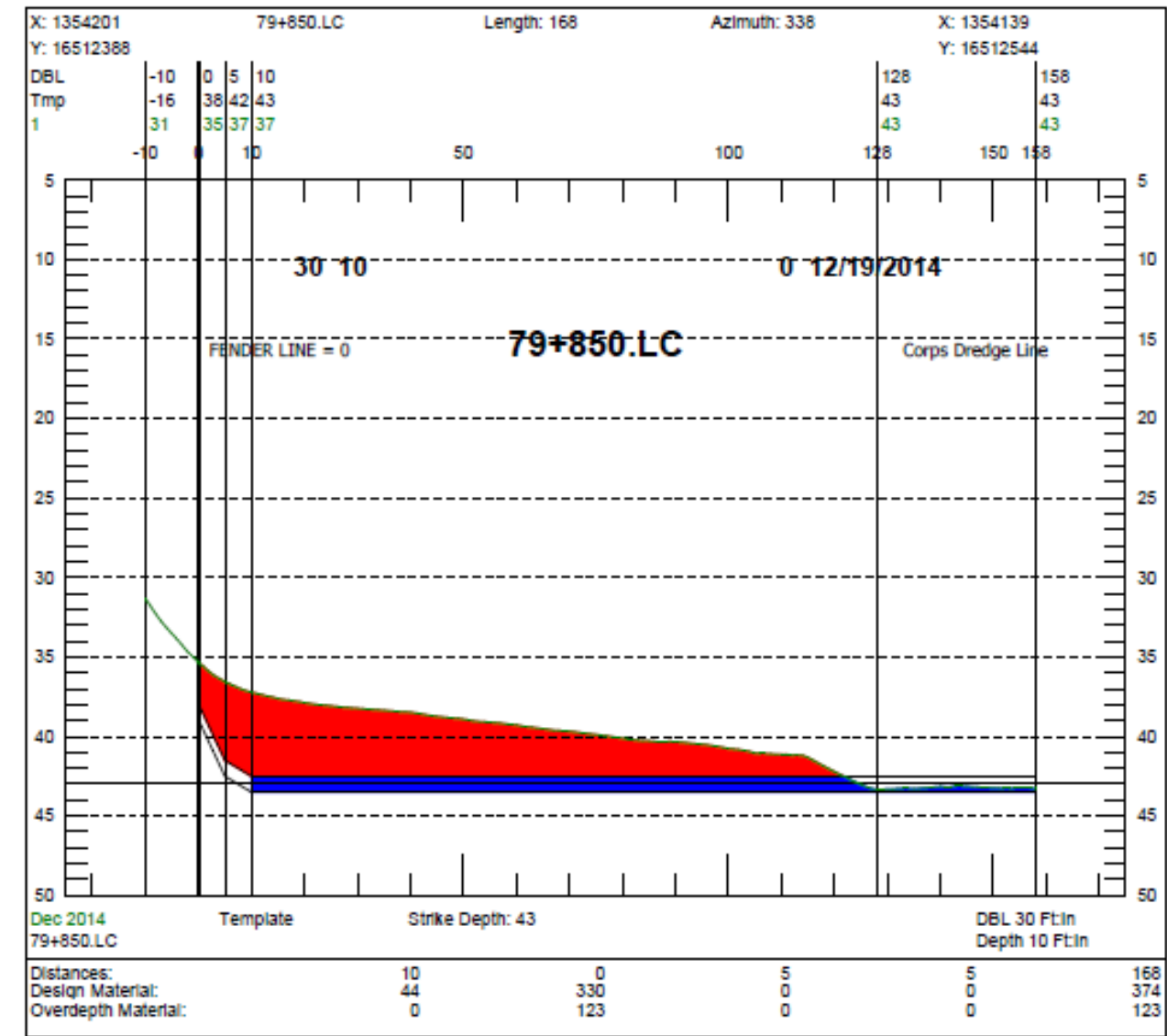
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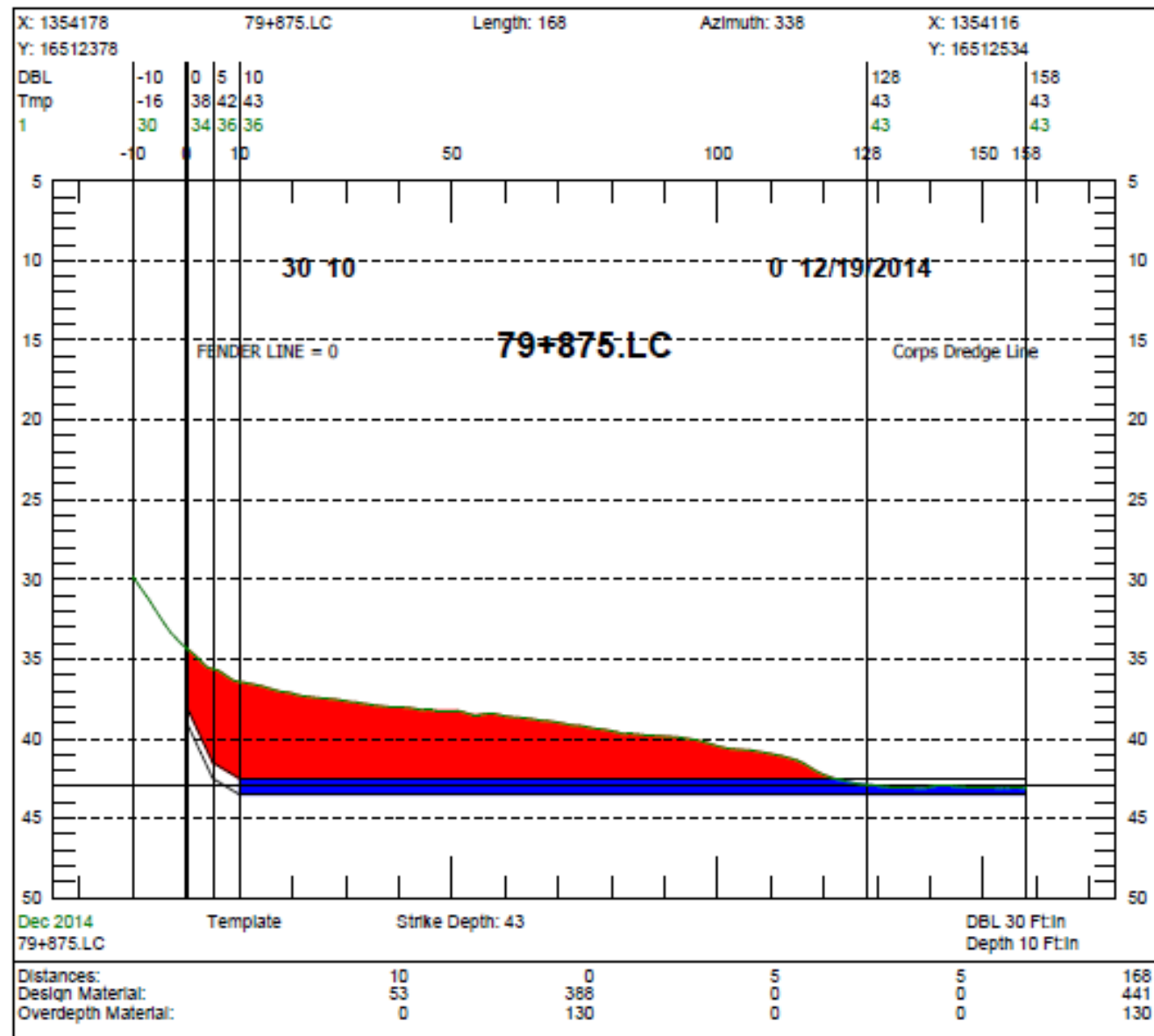
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Sheet 33 Of 35	Dec 2014
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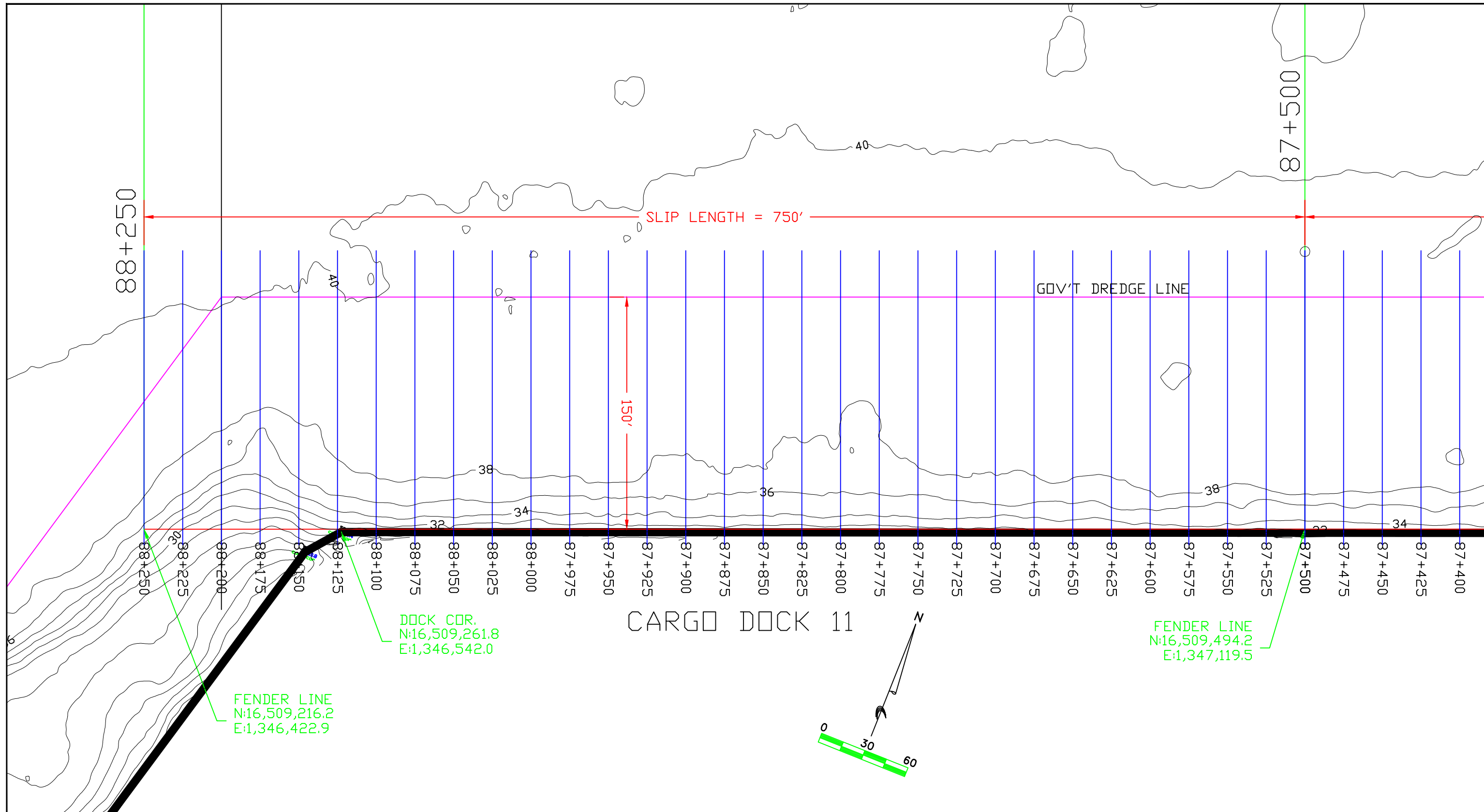


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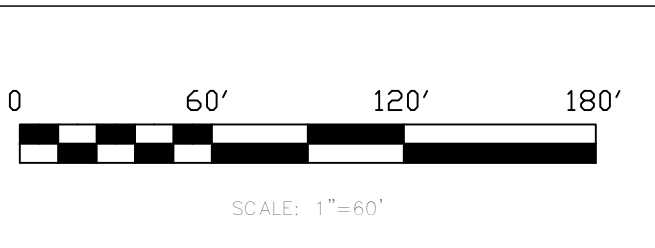
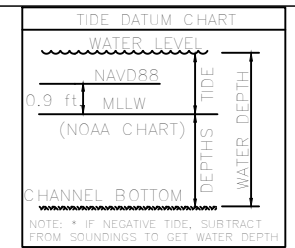


Sheet 35 Of 35	Dec 2014
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**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**CARGO DOCK 11**



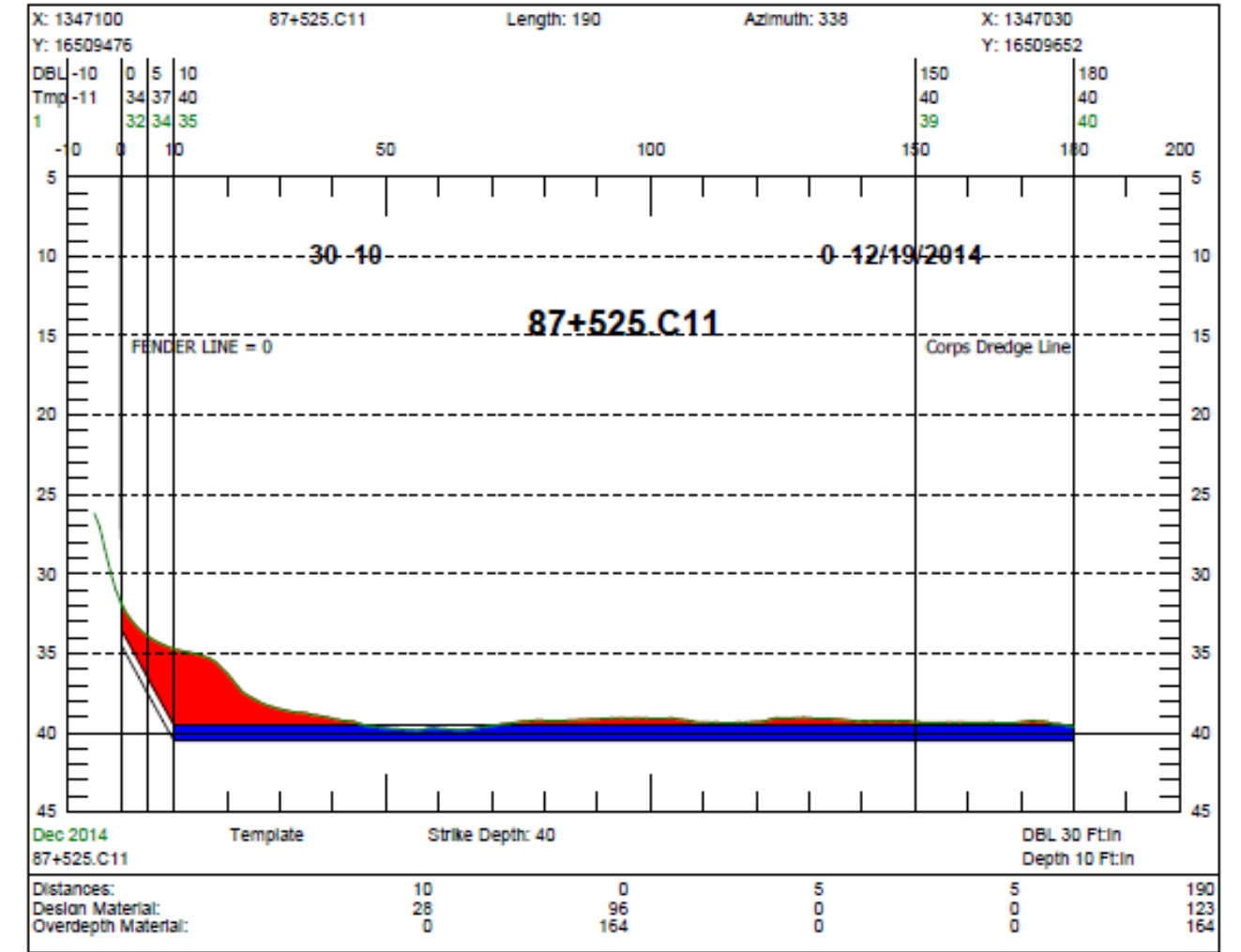
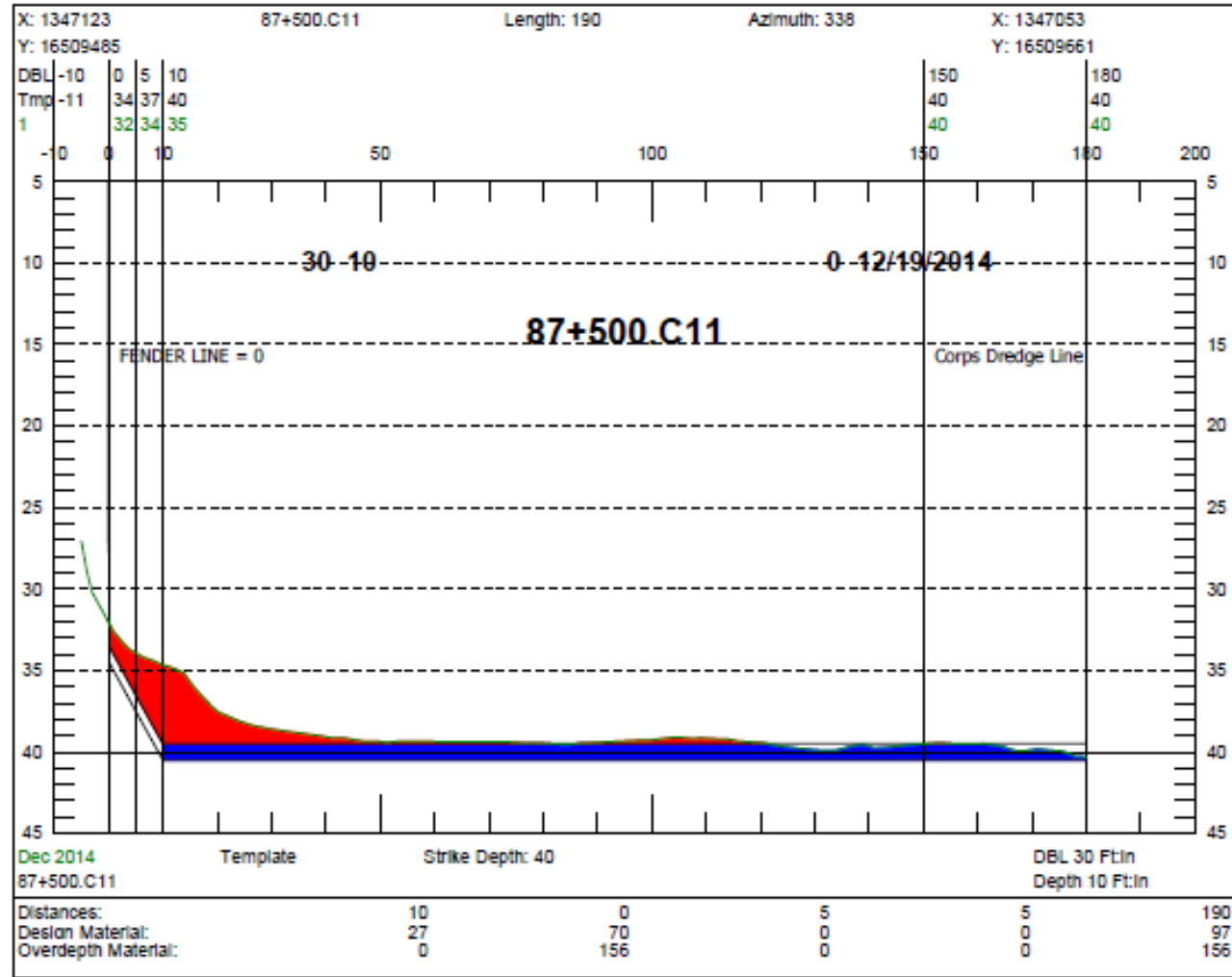
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 ELEV: 14.7' MLLW (13.8' NAVD88)



**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
 Corpus Christi, Texas 78411  
 WWW.NAISMITHMARINE.COM  
 (361) 945-0248

NO.	DATE	REVISION

PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 CARGO DOCK NO. 11  
 CARGO DOCK 11  
 SCALE: NOTED  
 DWN. BY: JMN  
 PLAN SHEET 1 OF 1  
 PAGE CD11-2 OF 18  
 JUN. 2015

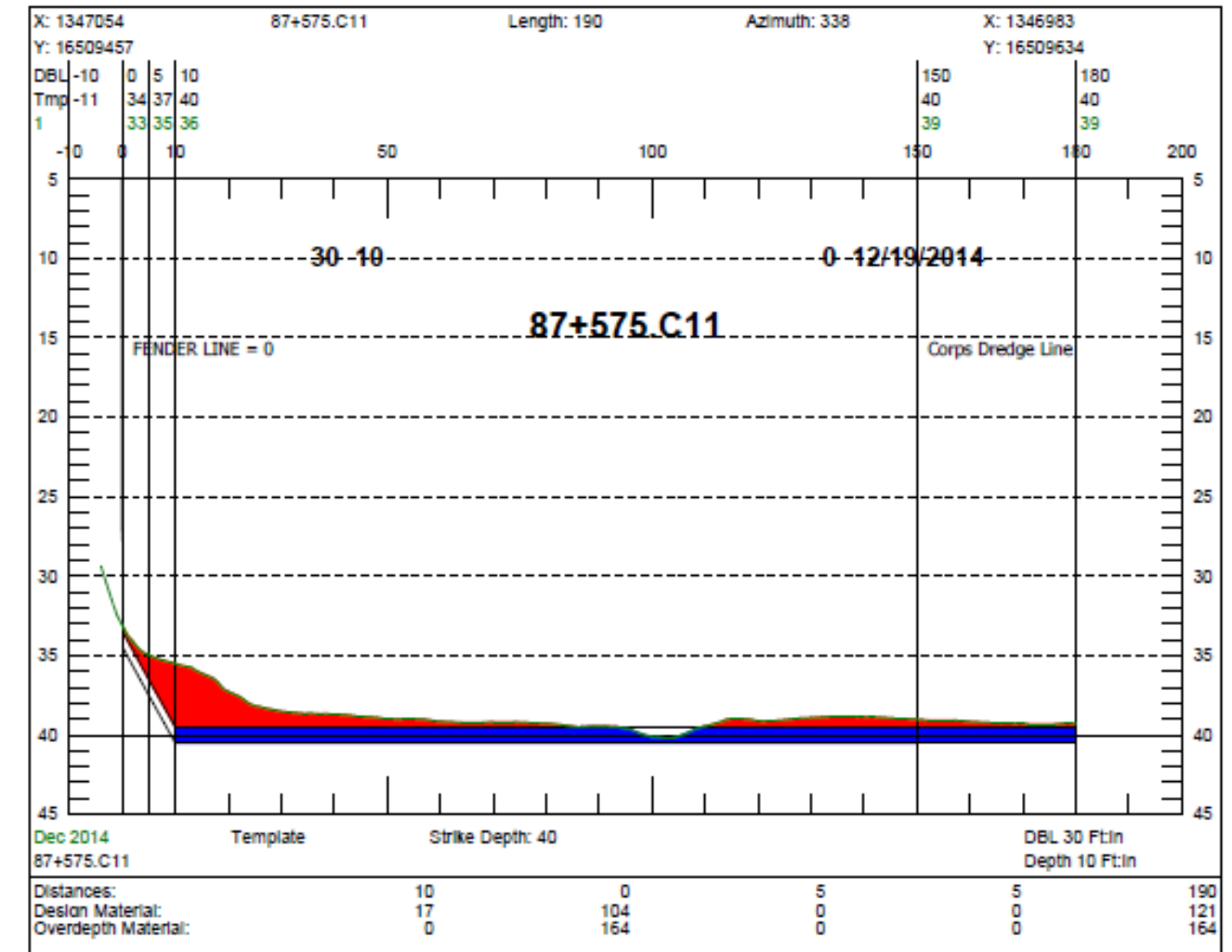
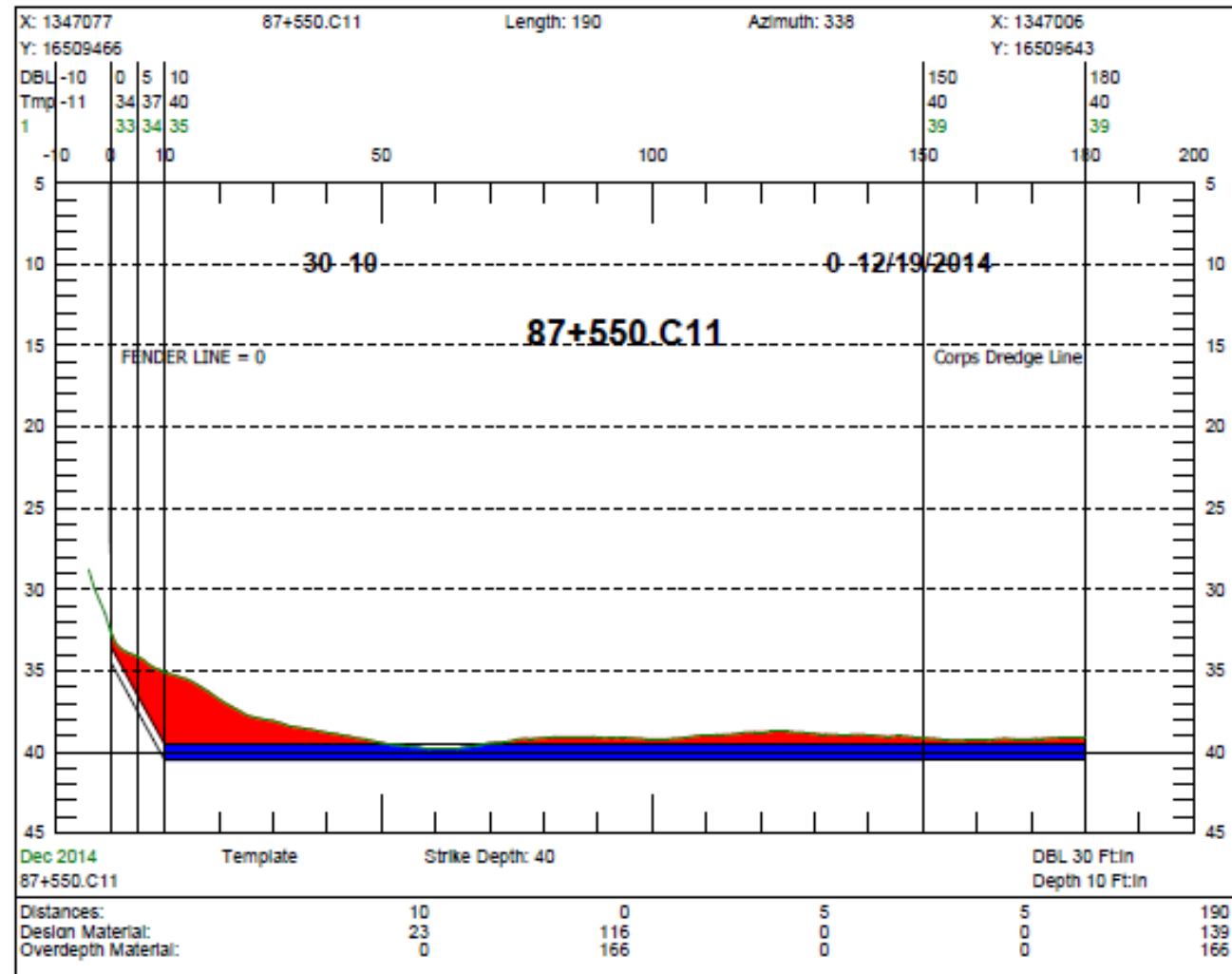


Sheet 1 Of 31	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 11
Surveyor	NalSmith Marine Services
Date	12/19/2014
File	



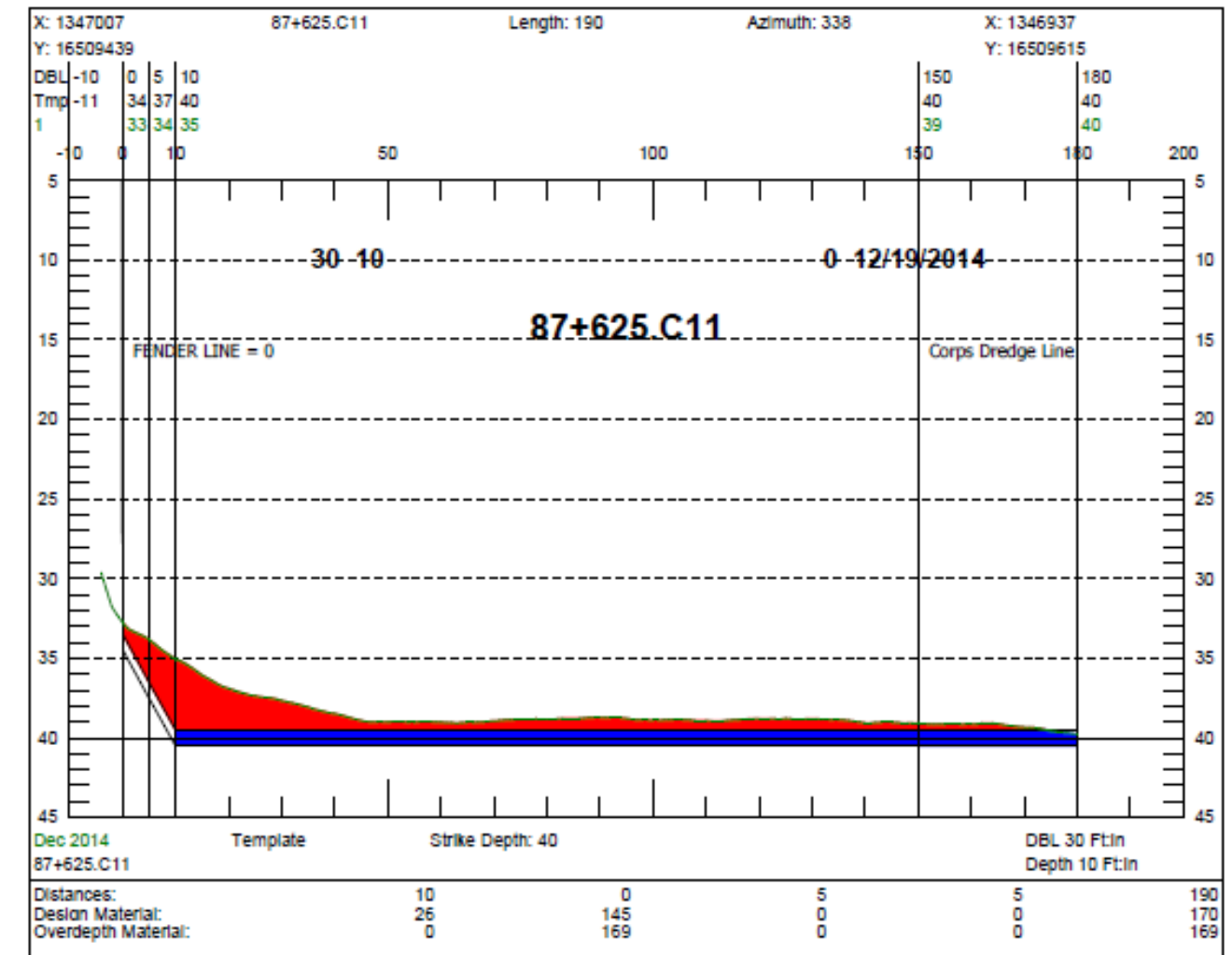
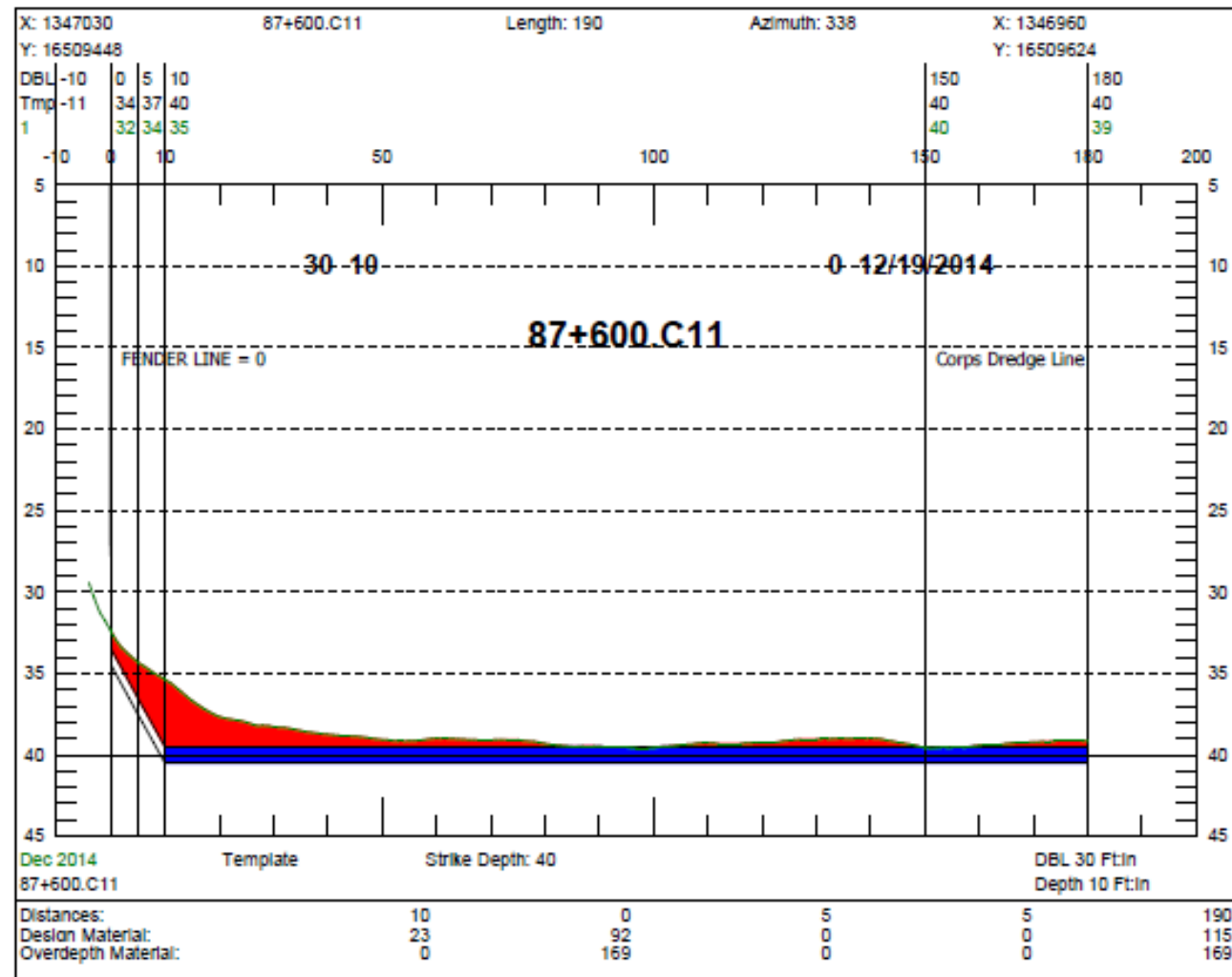
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Project	Port of Brownsville
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Area	Cargo Dock 11
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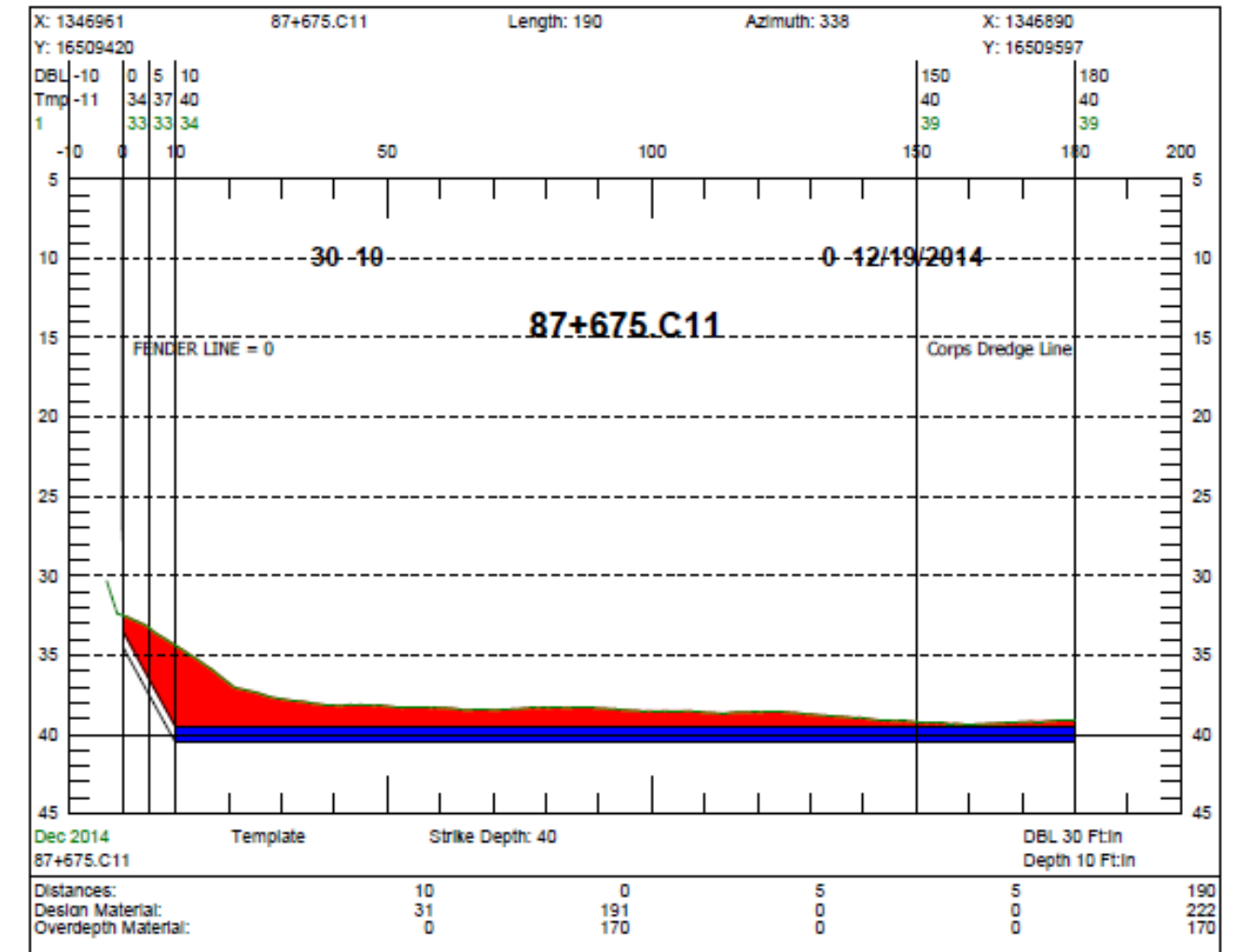
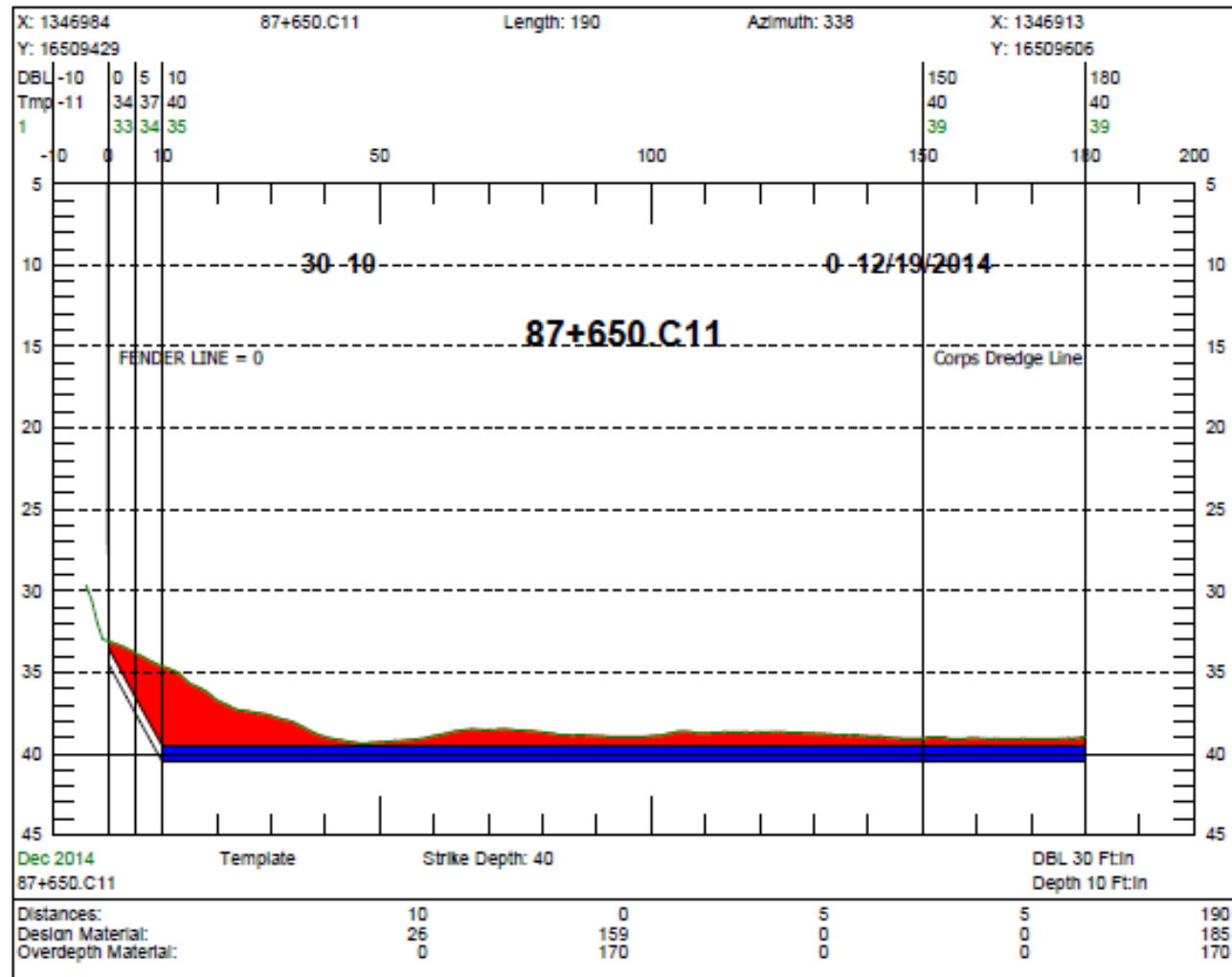
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Job	
Area	Cargo Dock 11
Surveyor	Nalsmith Marine Services
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File	

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Area	Cargo Dock 11
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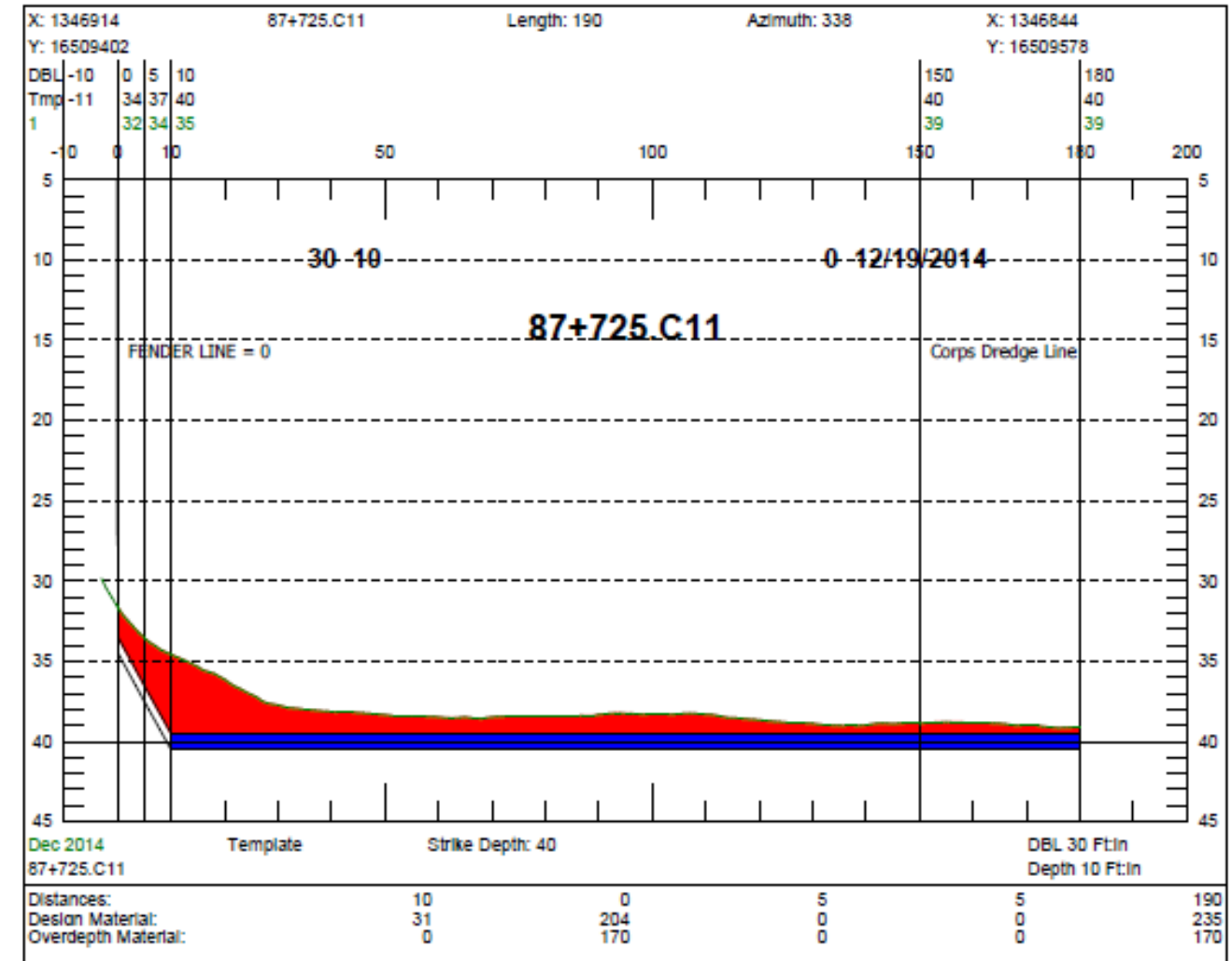
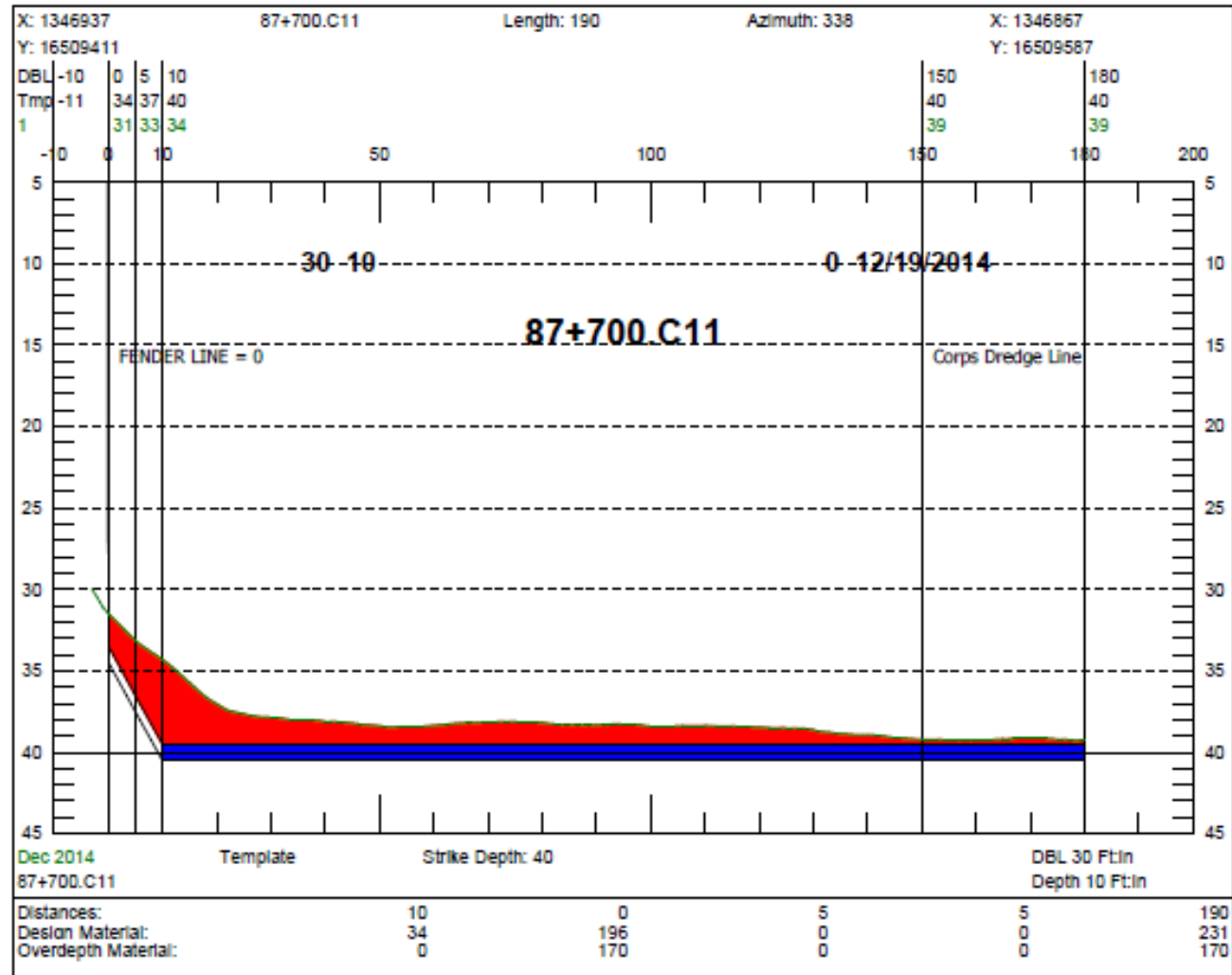
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Job	
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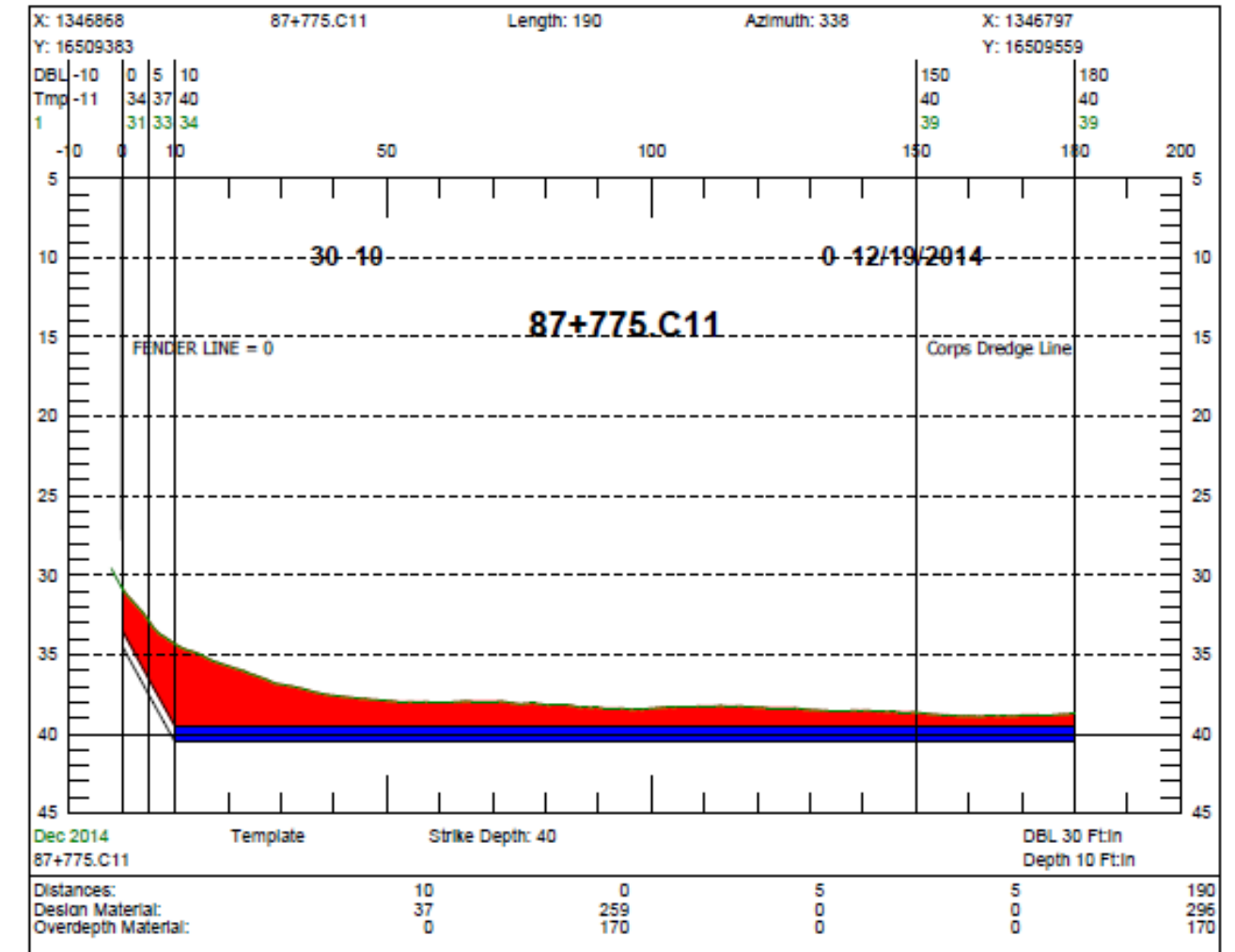
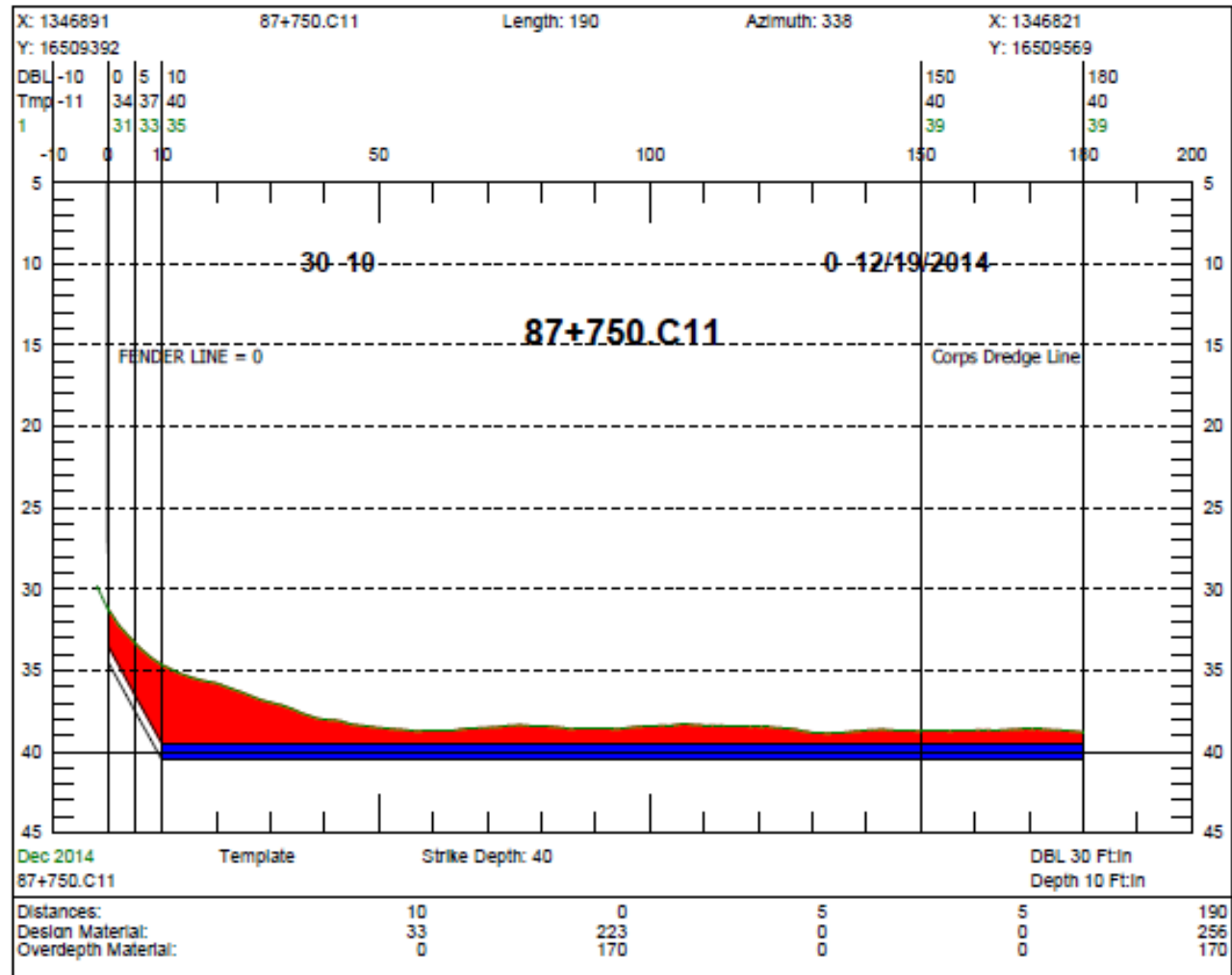
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Project	Port of Brownsville
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Area	Cargo Dock 11
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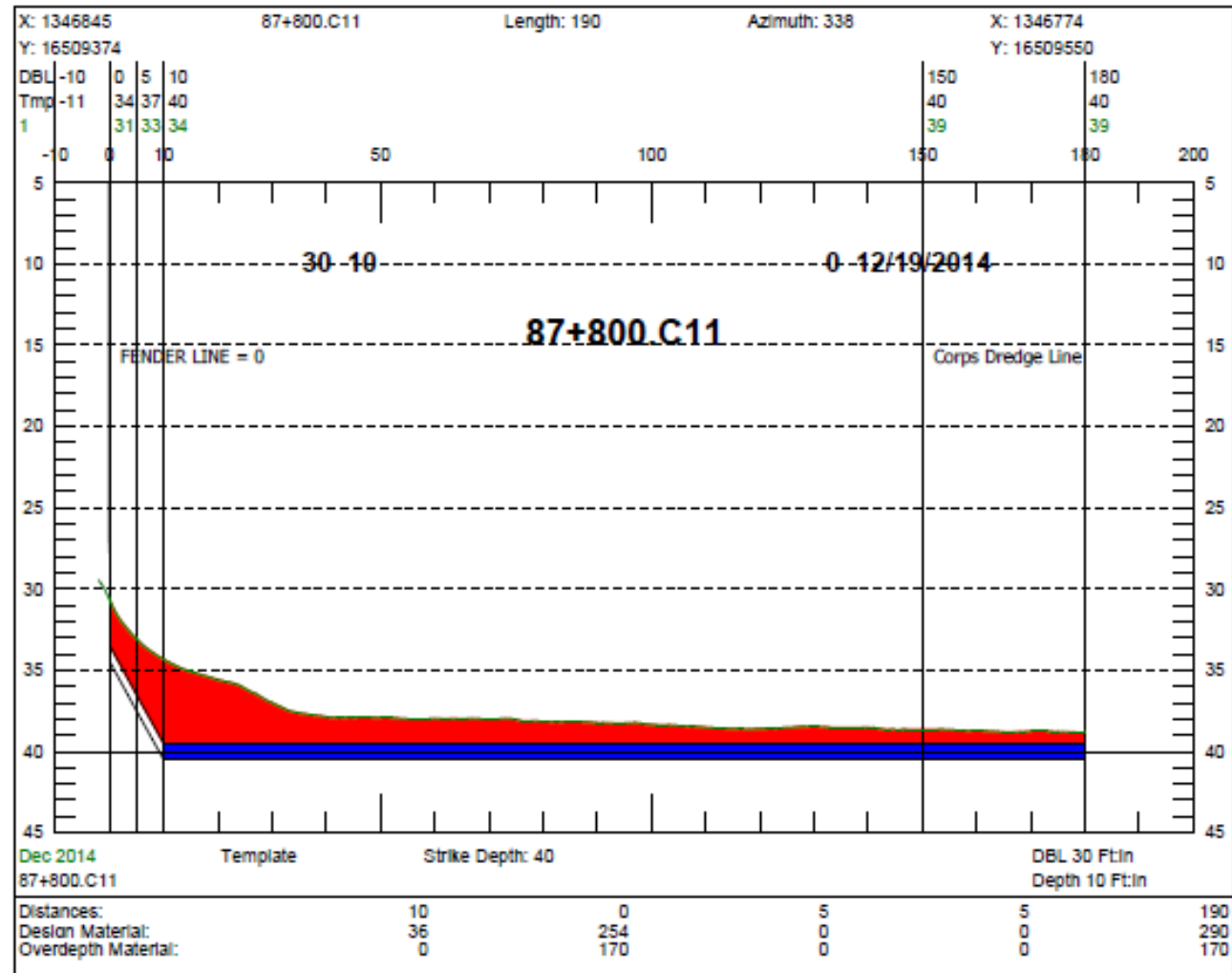
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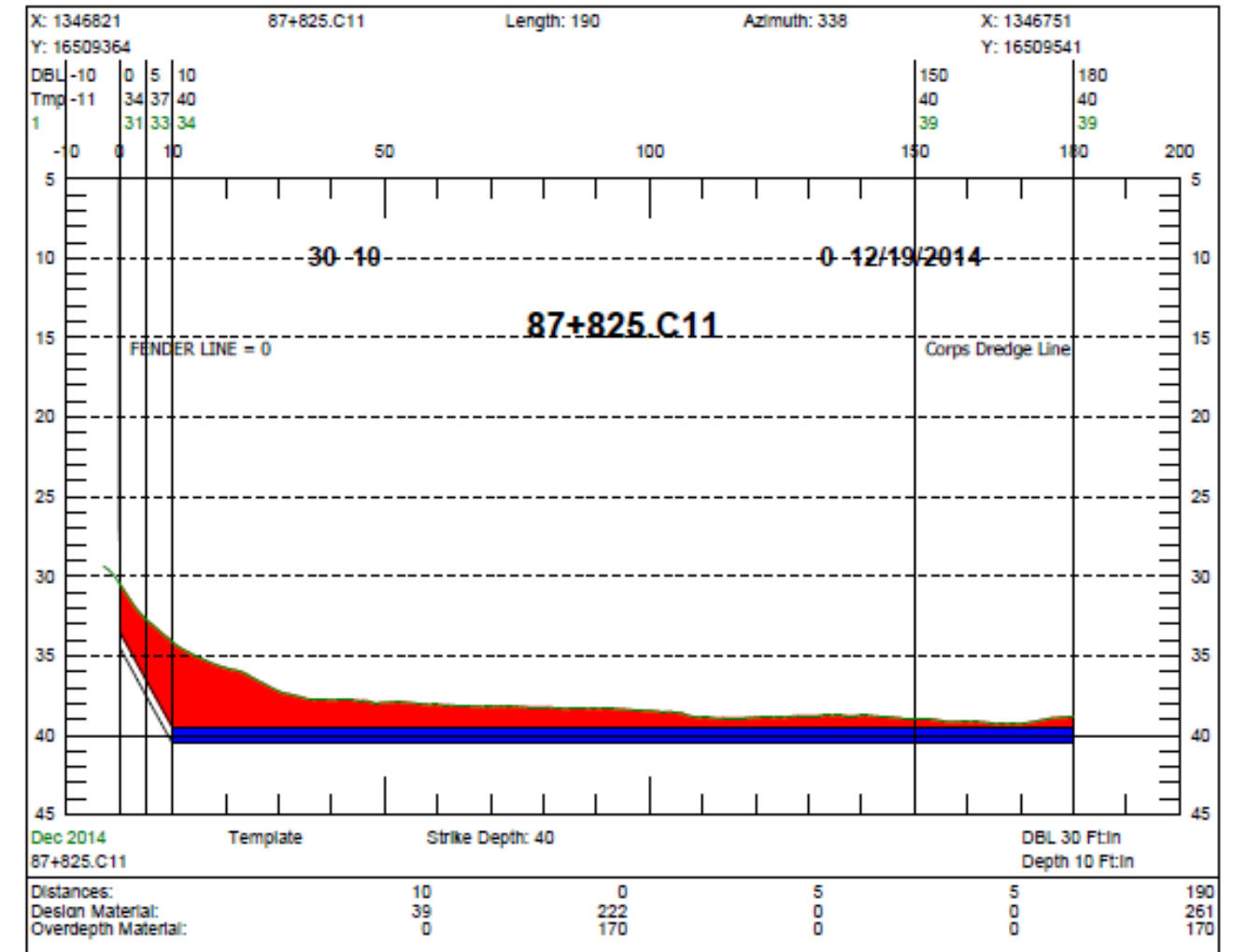


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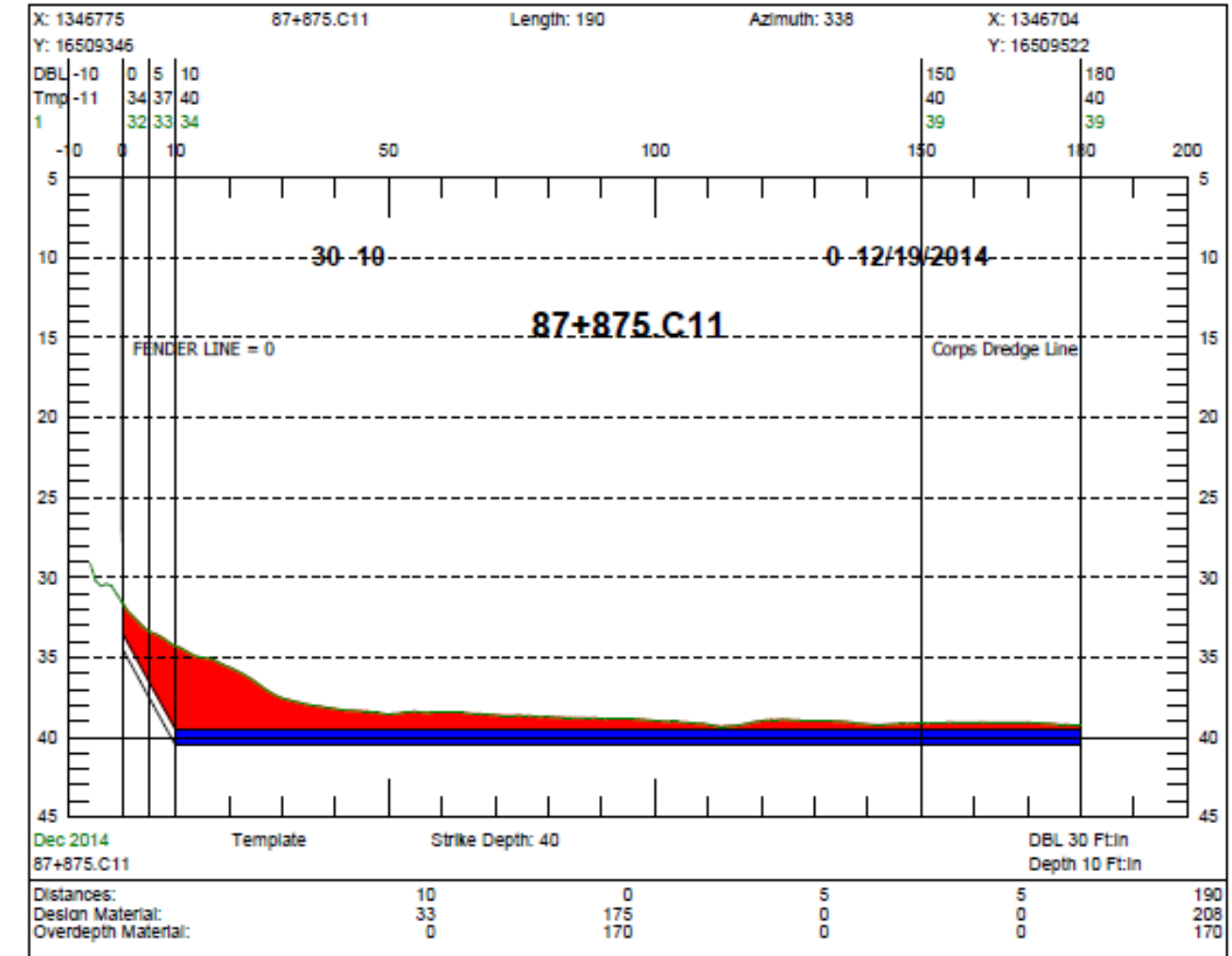
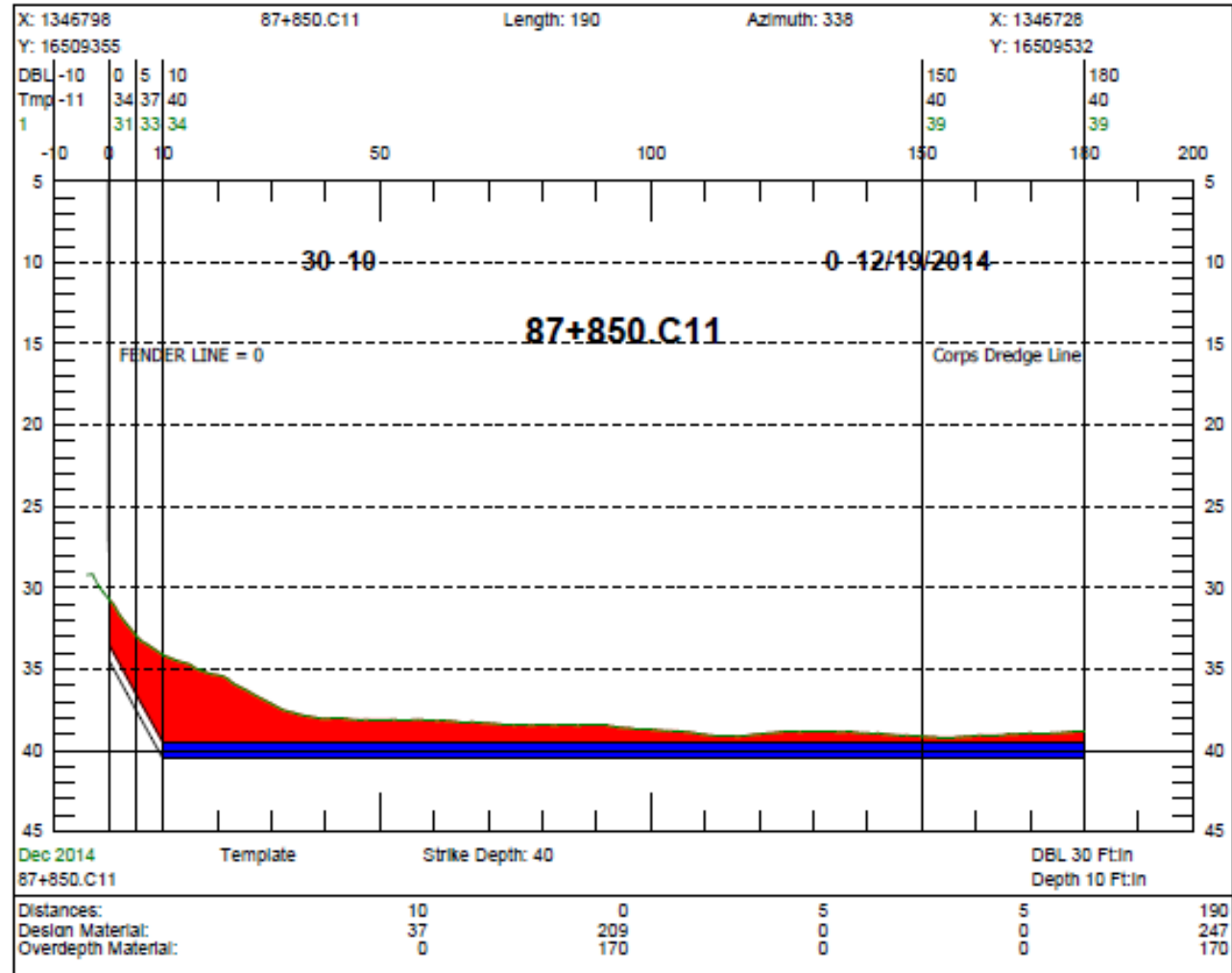
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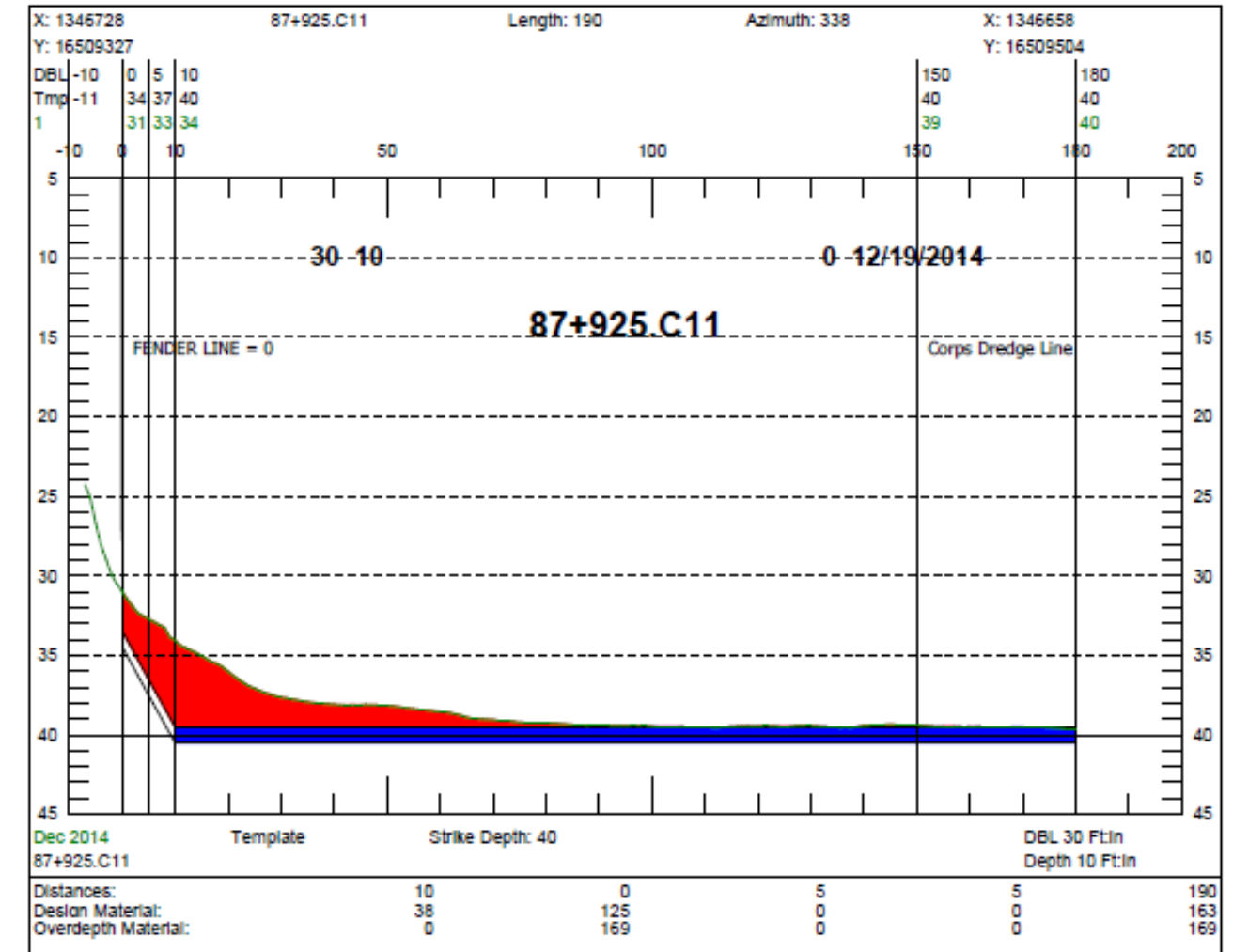
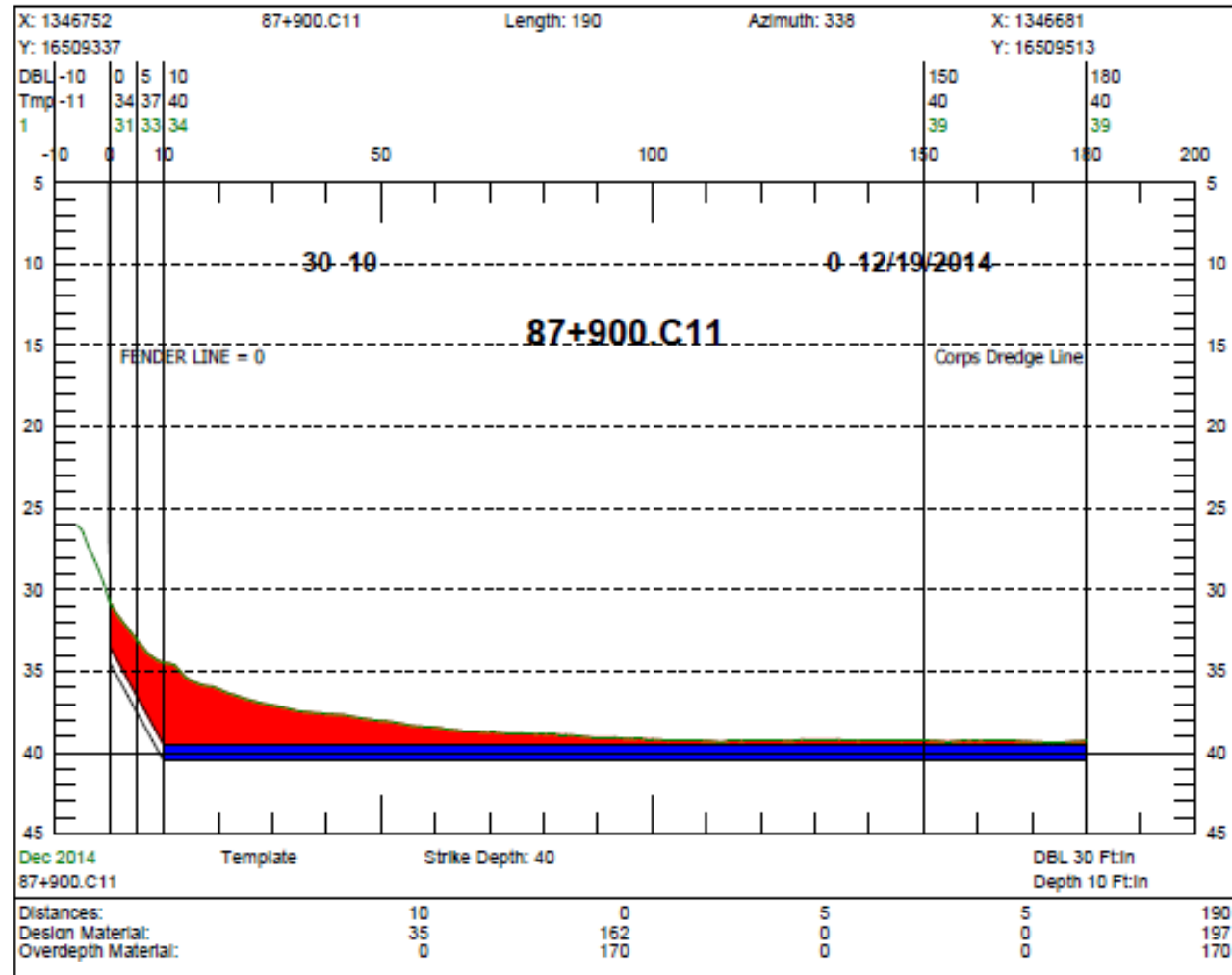


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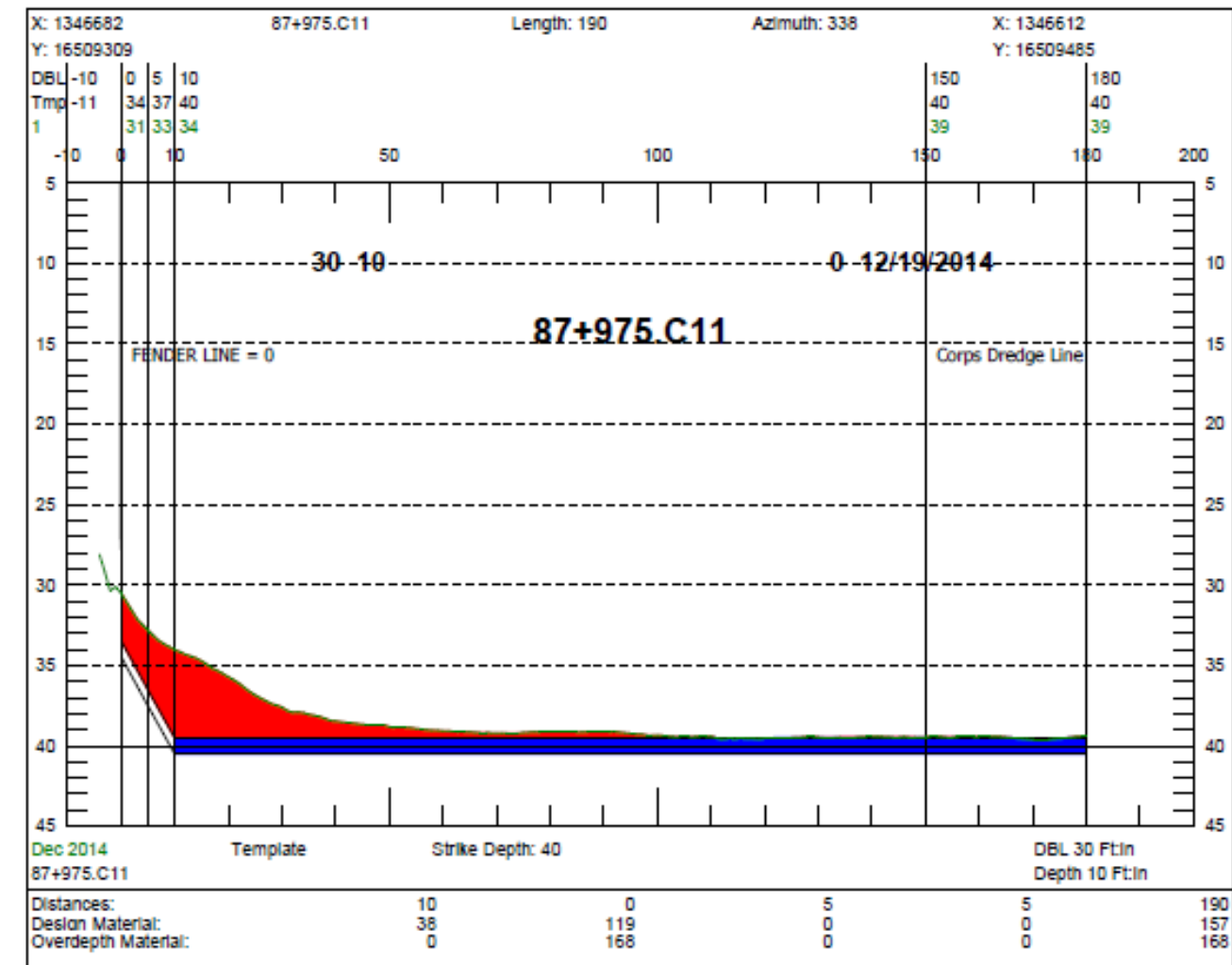
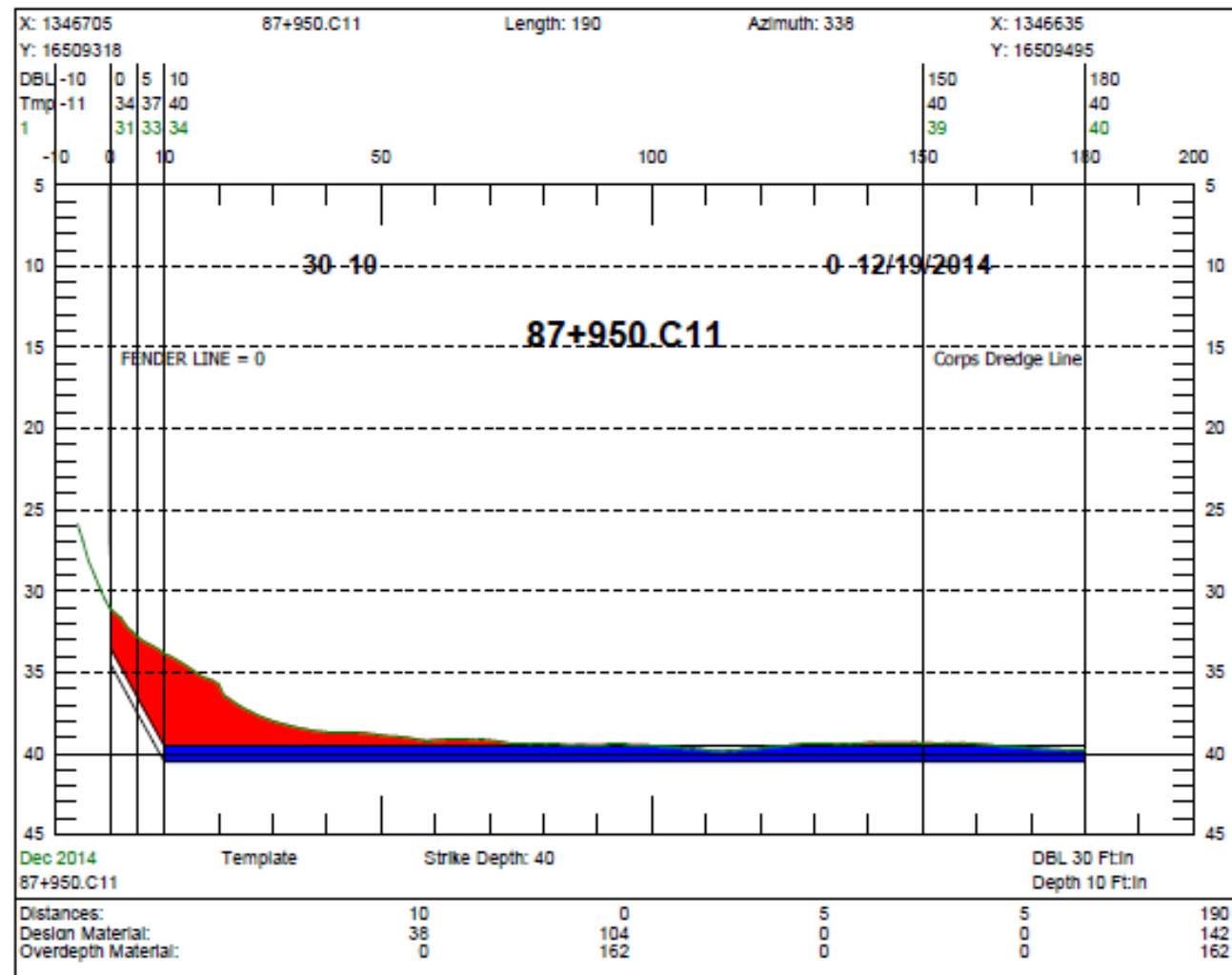
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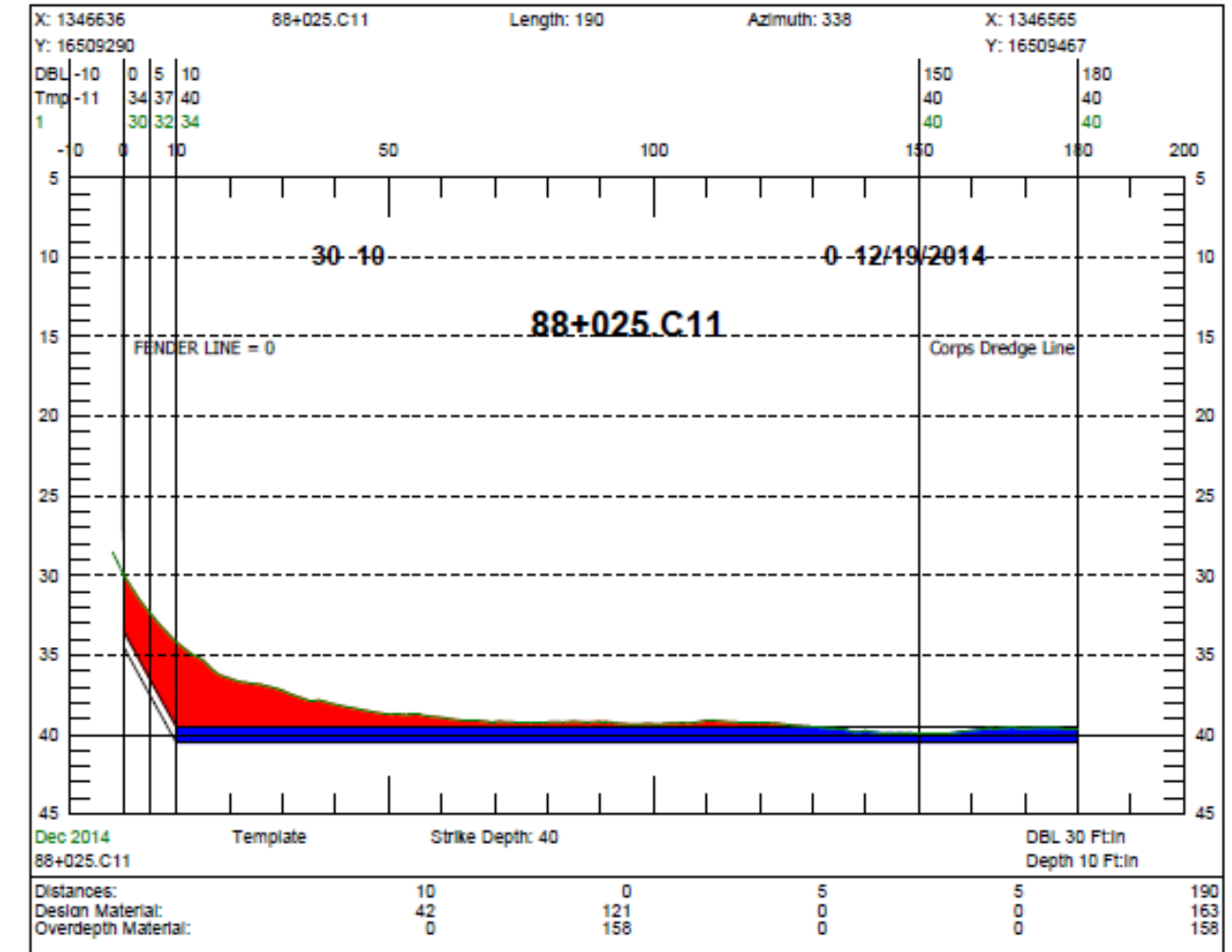
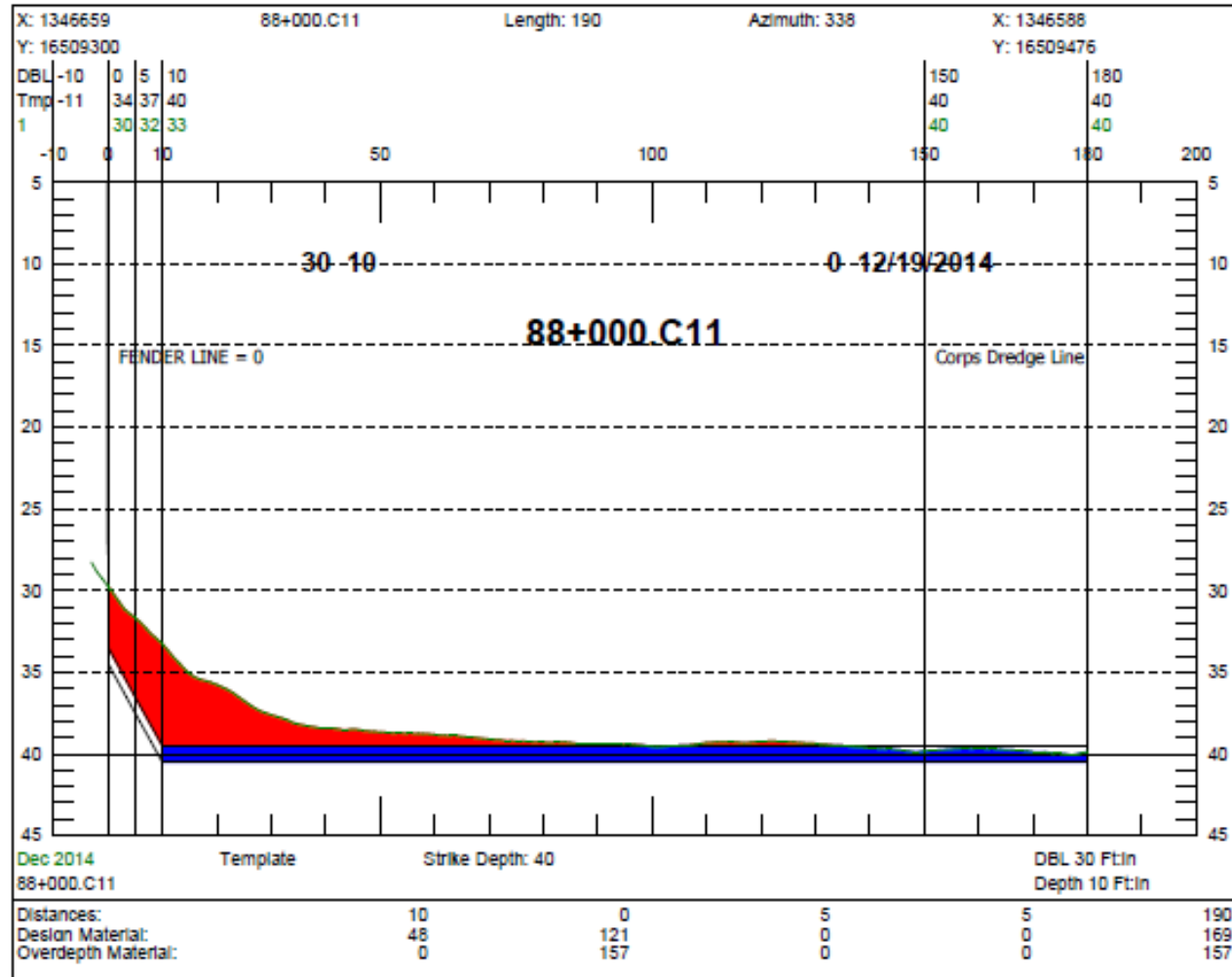
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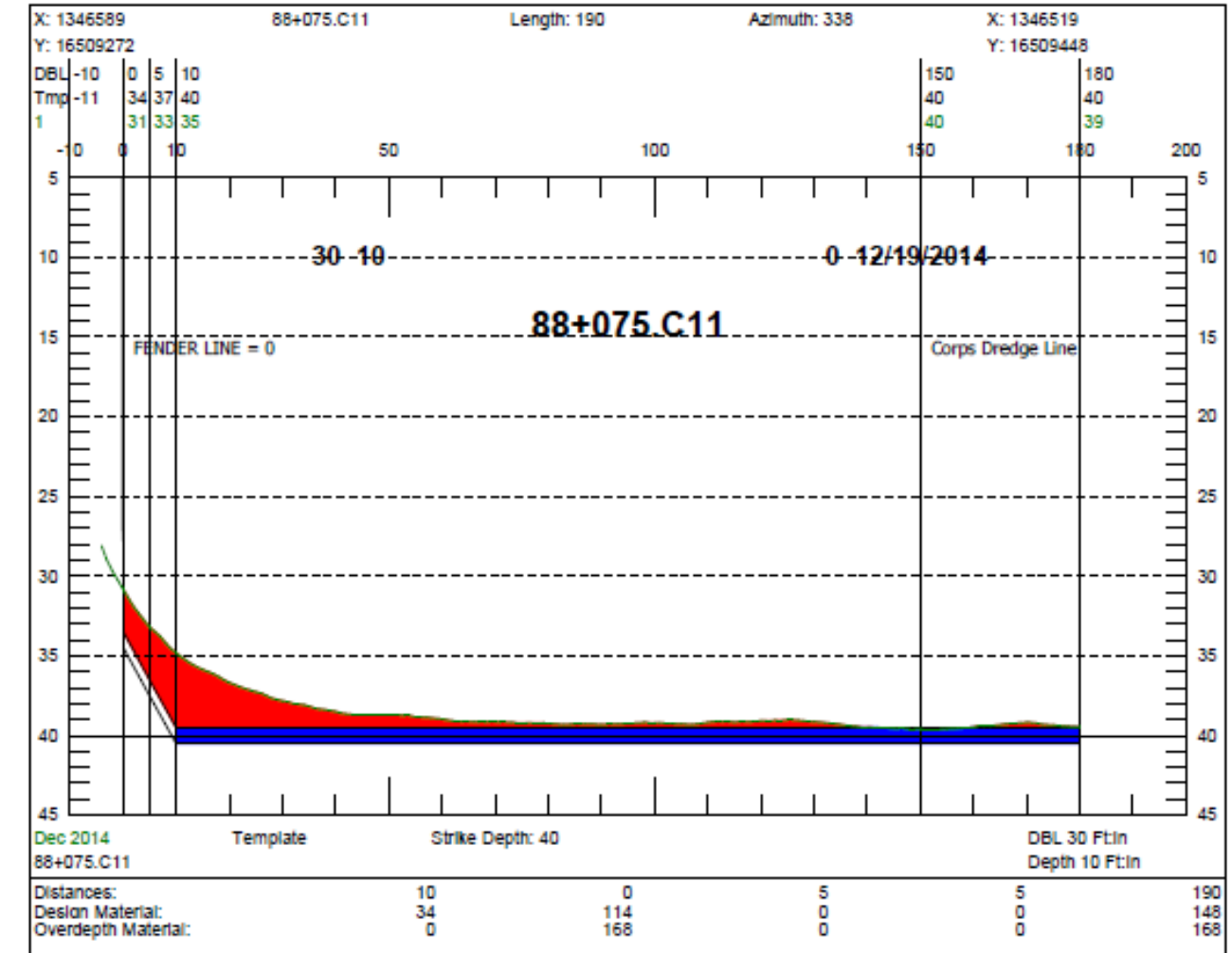
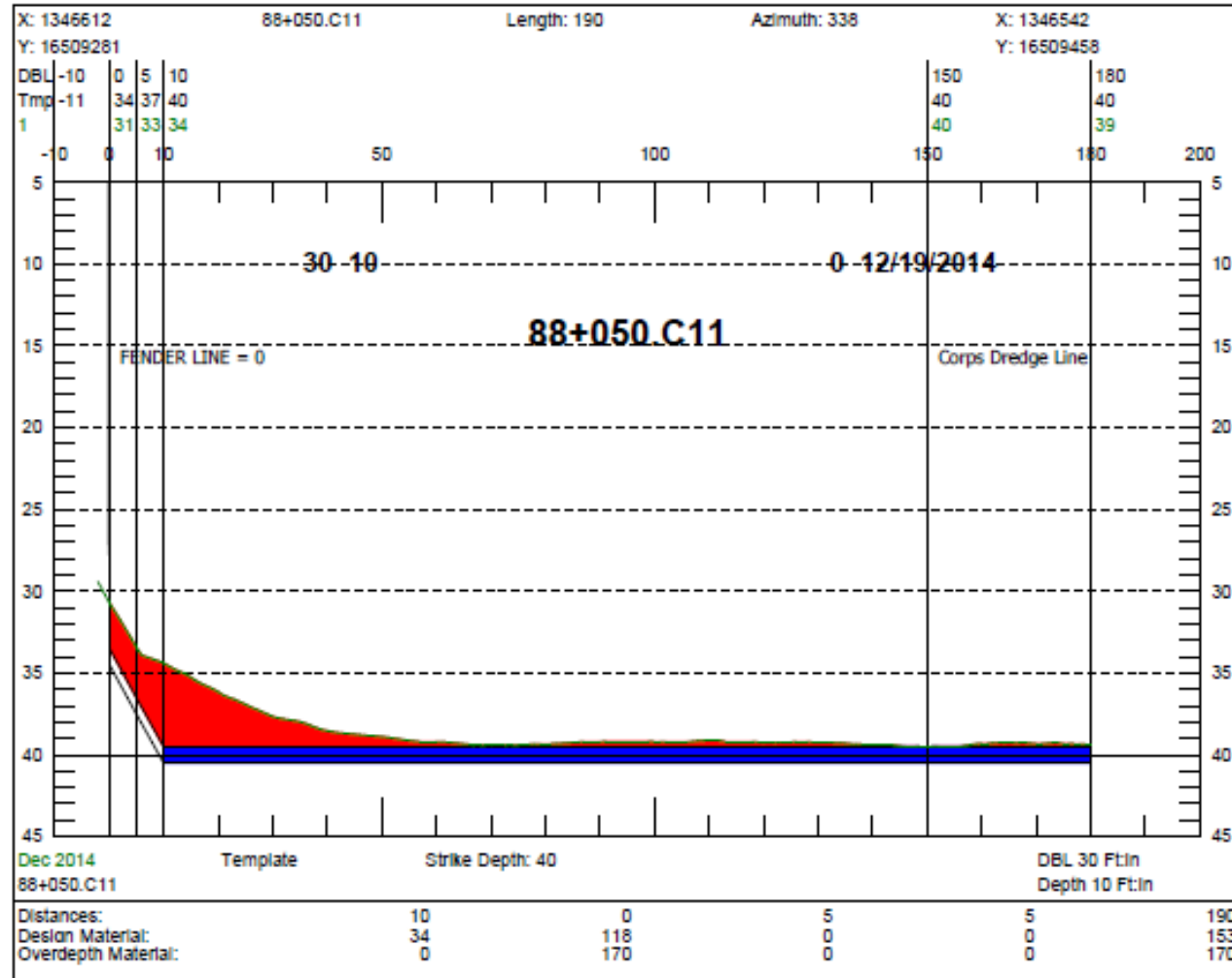
Sheet 19 Of 31	Dec 2014
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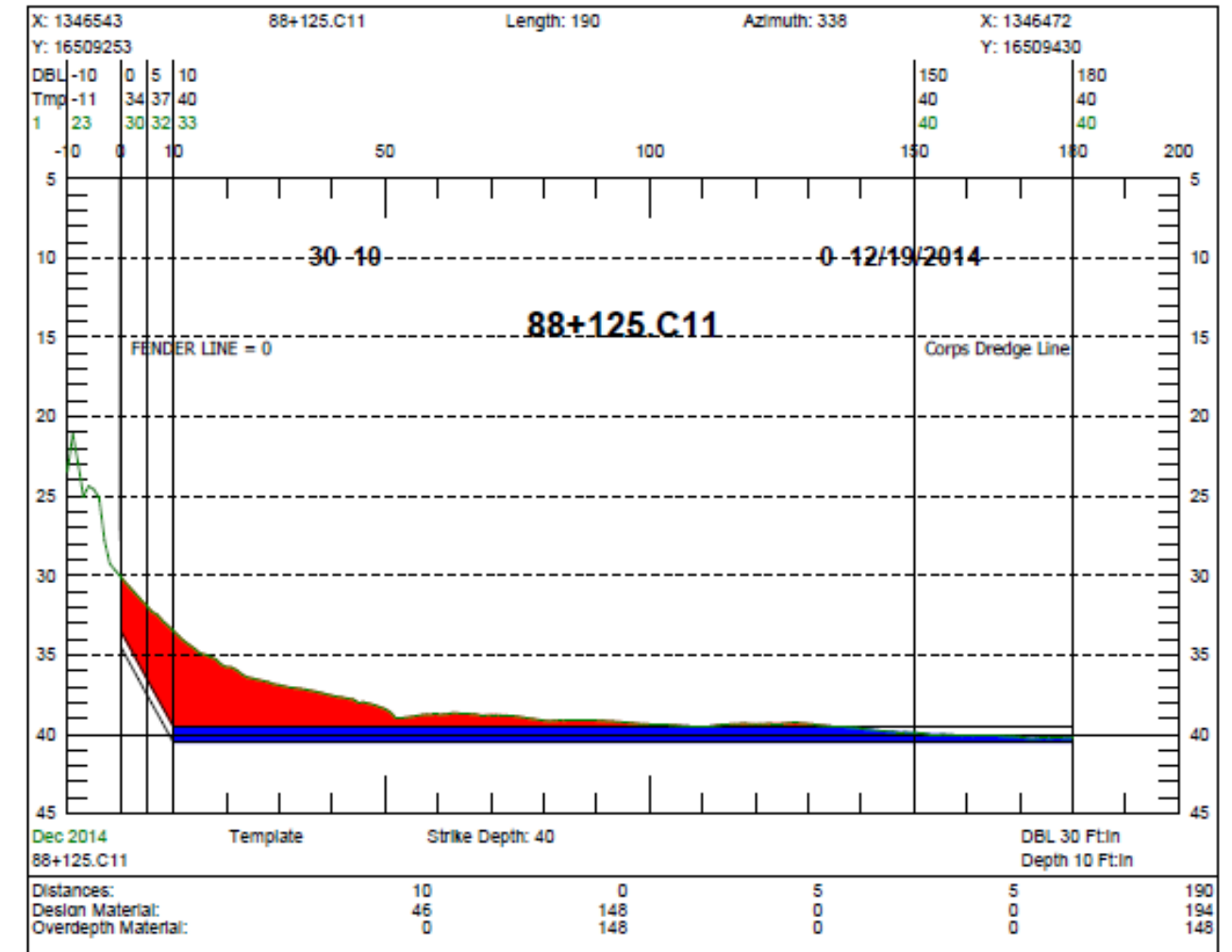
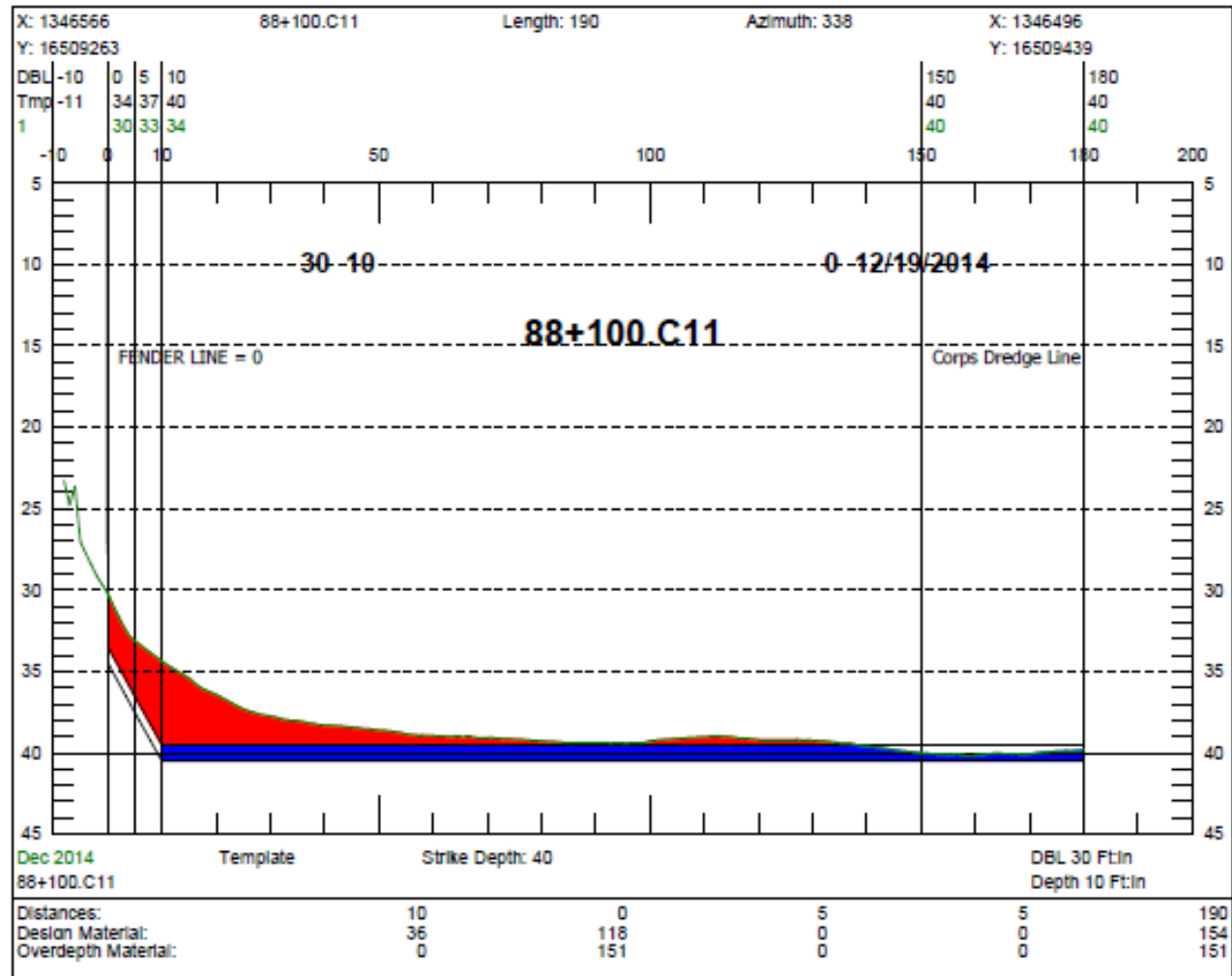
Sheet 21 Of 31	Dec 2014
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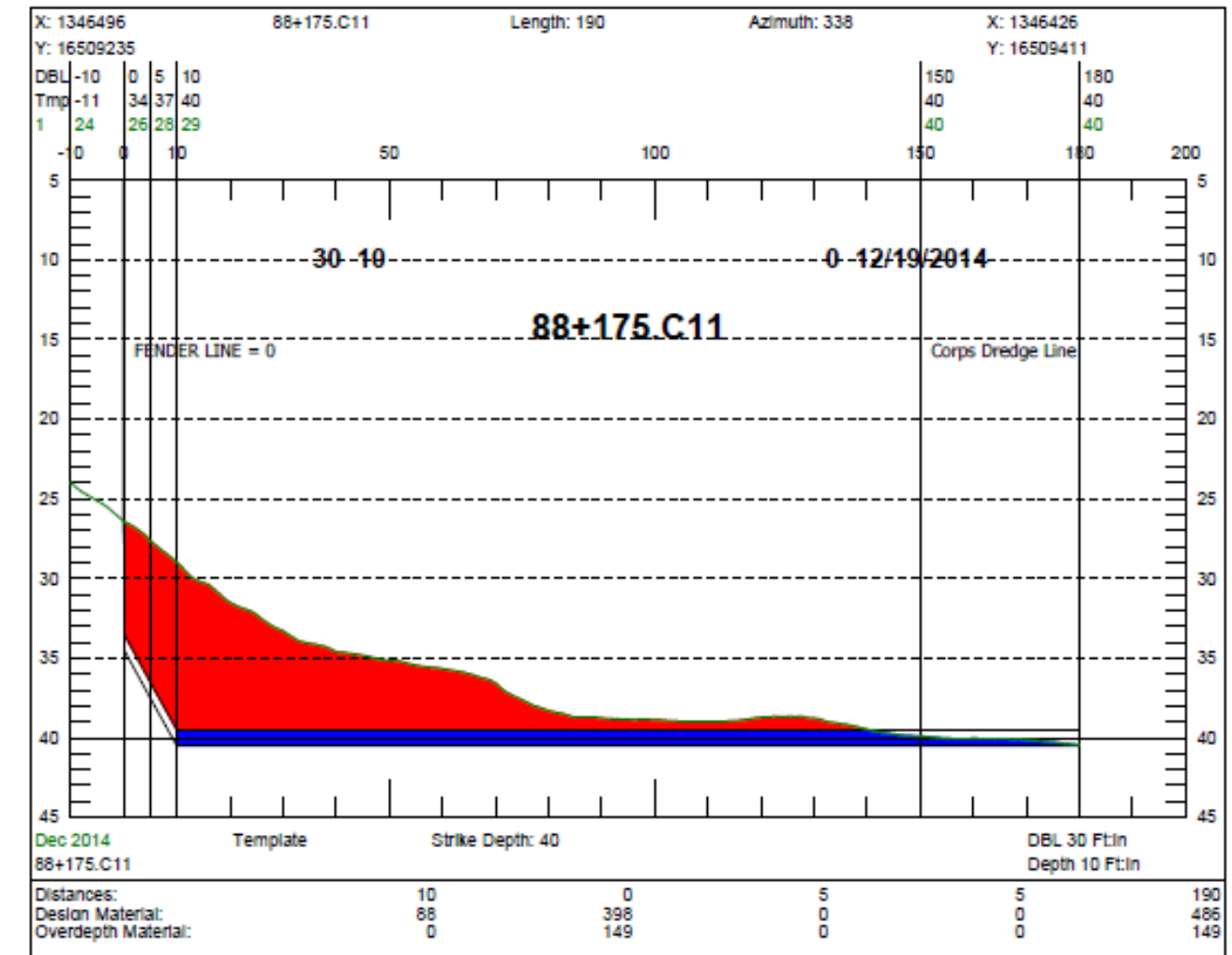
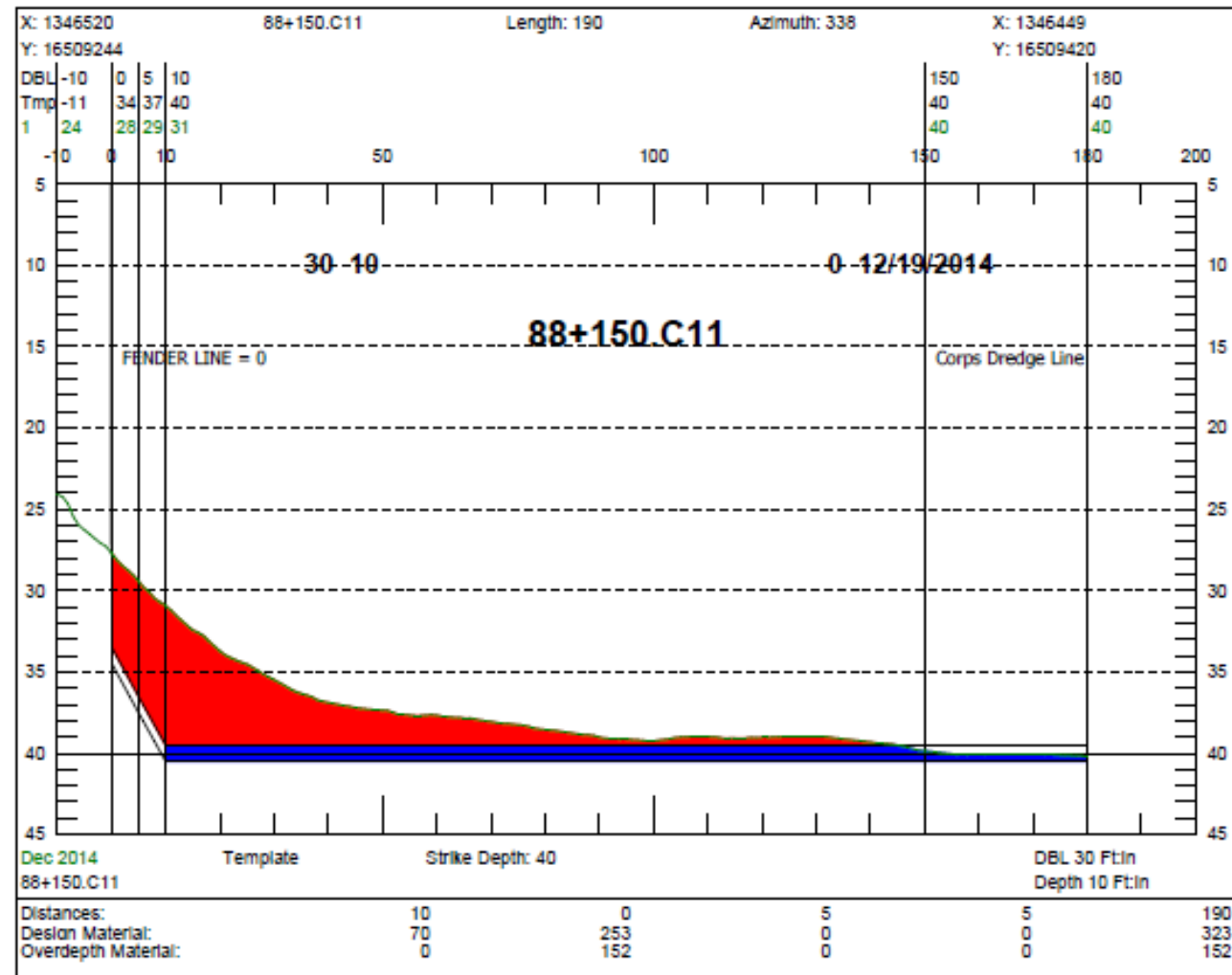
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Project	Port of Brownsville
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Sheet 24 Of 31	Dec 2014
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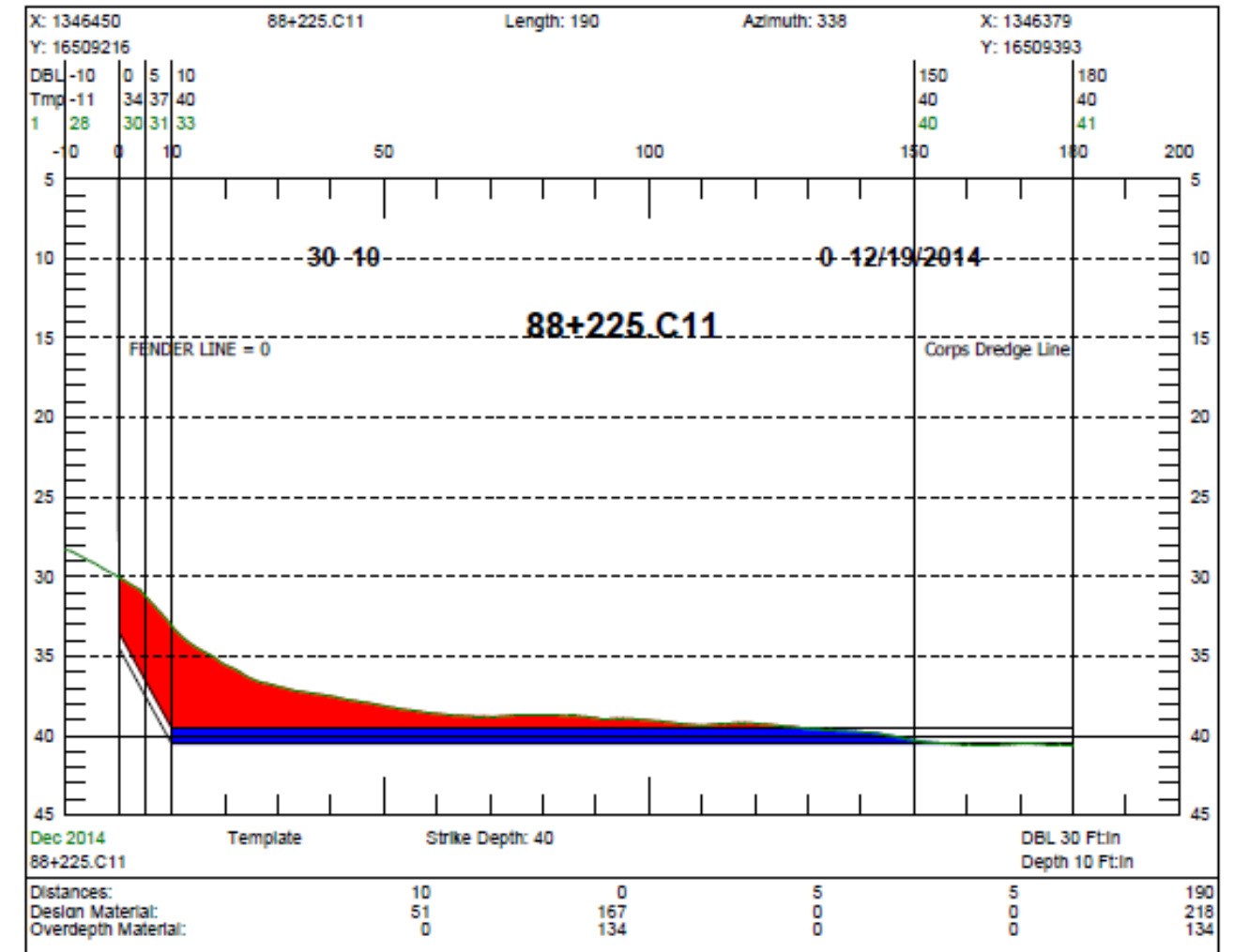
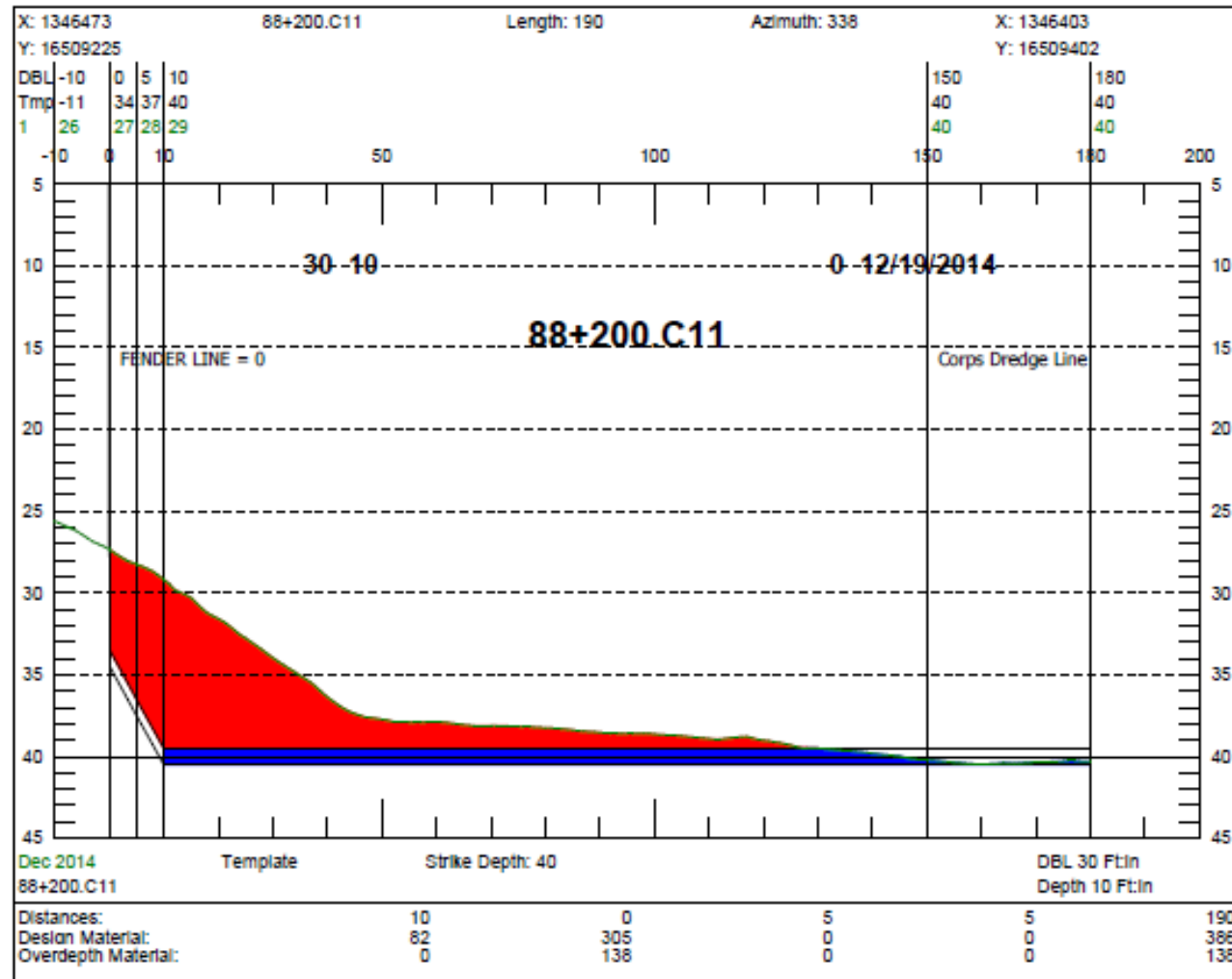
Sheet 25 Of 31	Dec 2014
Project	Port of Brownsville
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Sheet 26 Of 31	Dec 2014
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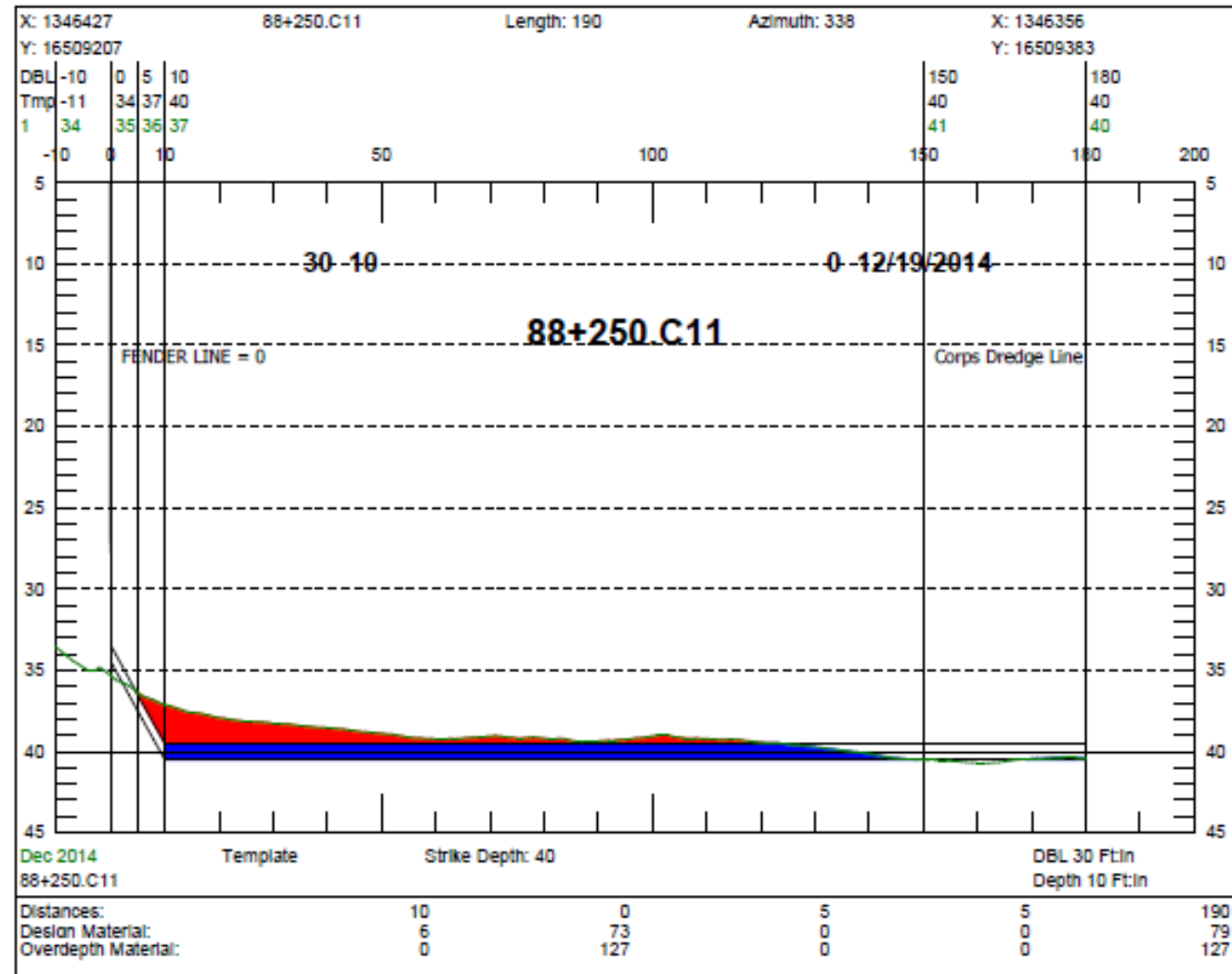
Sheet 27 Of 31	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 11
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

Sheet 28 Of 31	Dec 2014
Project	Port of Brownsville
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Sheet 29 Of 31	Dec 2014
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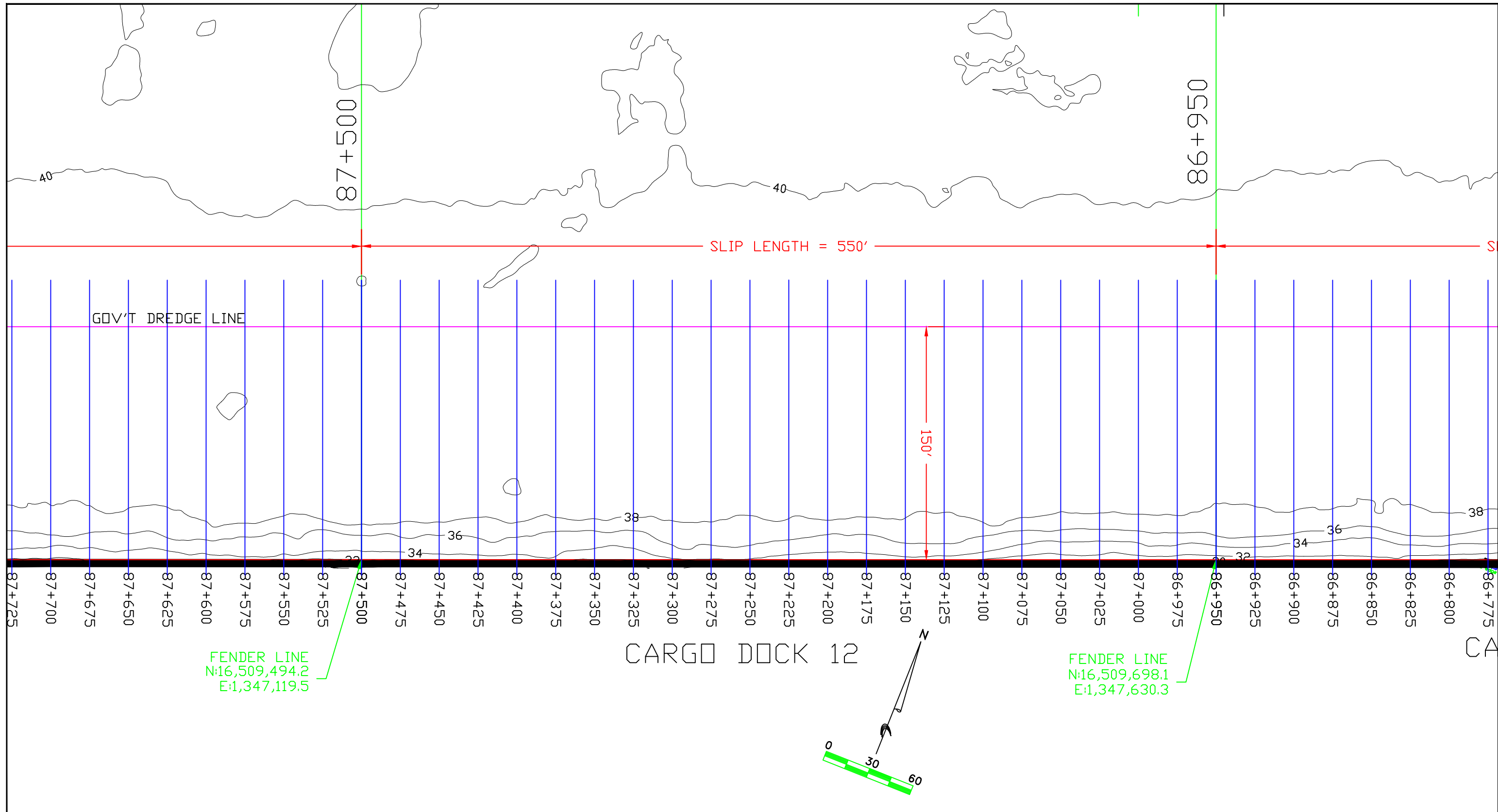
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Project	Port of Brownsville
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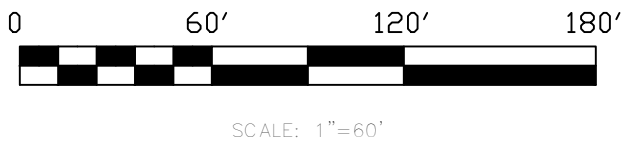
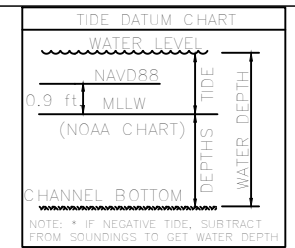
Sheet 31 Of 31	Dec 2014
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**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**CARGO DOCK 12**





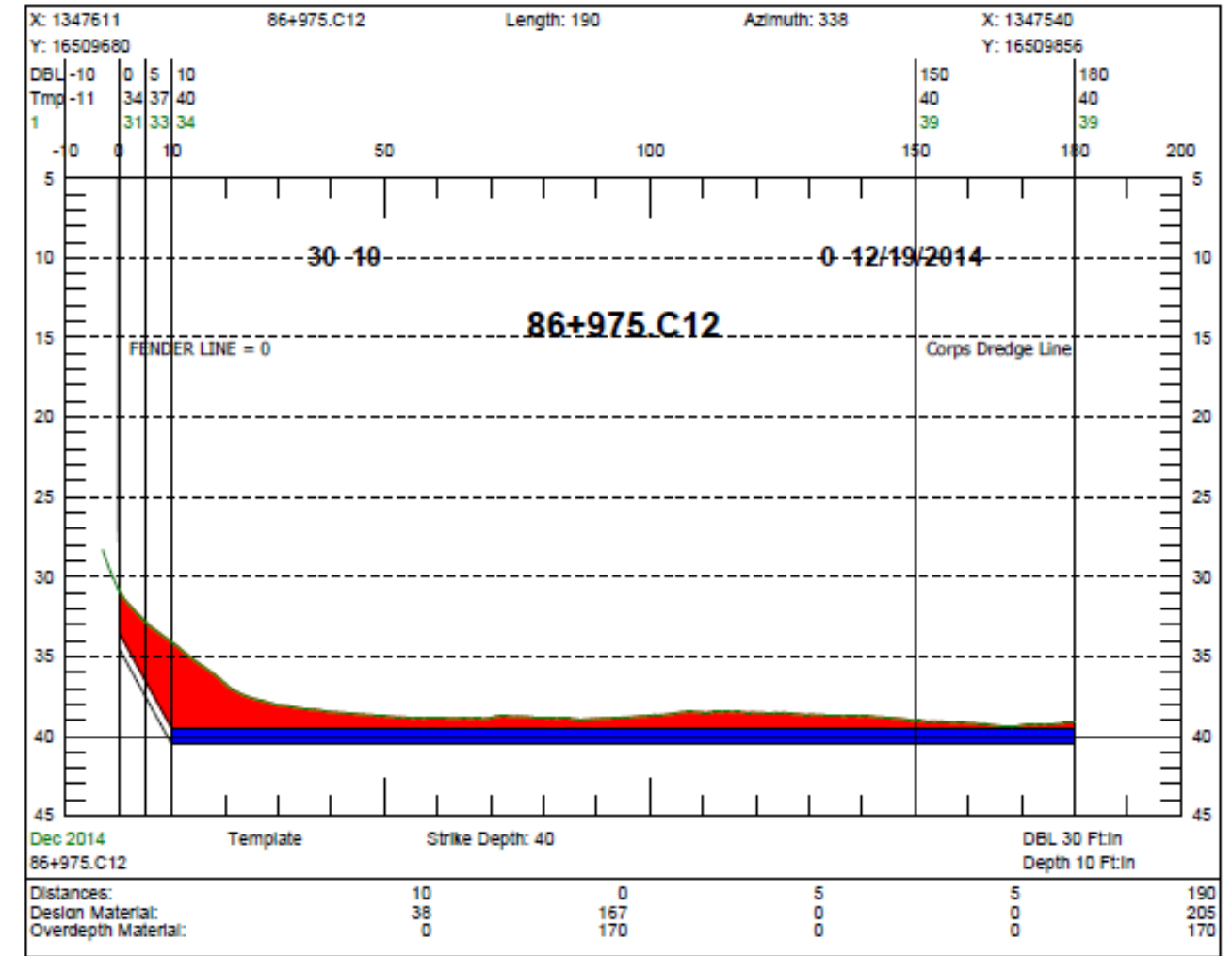
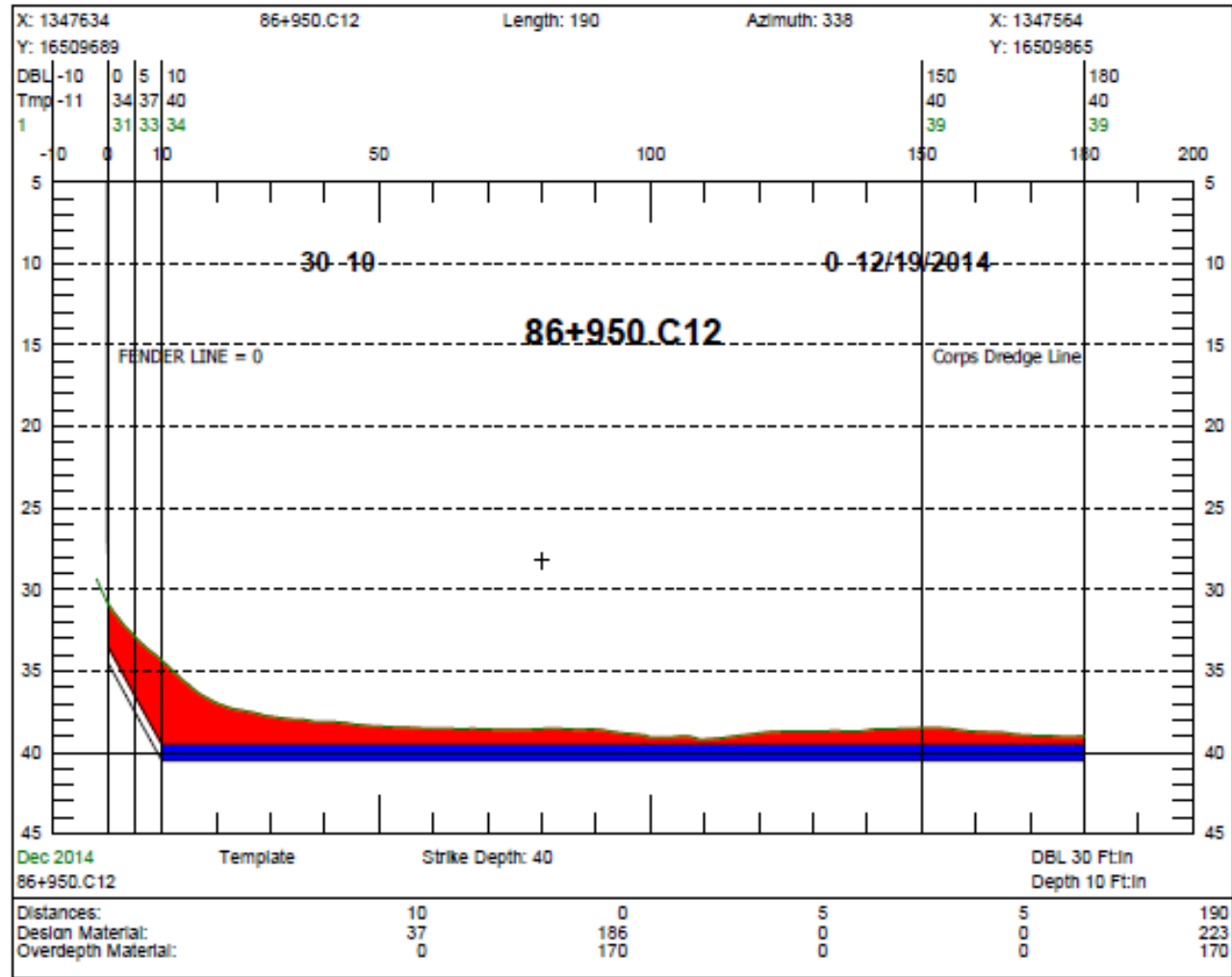
**NOTES:**  
 1) DEPTHS/ELEVATIONS WERE MEASURED BY NAISMITH MARINE SERVICES ON DECEMBER 19, 2014. SEA FLOOR CONDITIONS ARE SUBJECT TO CHANGE.  
 2) HORIZONTAL DATUM: NAD27, TEXAS SOUTH ZONE, US FEET.  
 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
 REFERENCE MONUMENT "535 R/L 1948 89+679.68"  
 N: 105,292.01  
 E: 2,360,559.23  
 ELEV: 14.7' MLLW (13.8' NAVD88)



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 WWW.NAISMITHMARINE.COM  
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NO.	DATE	REVISION

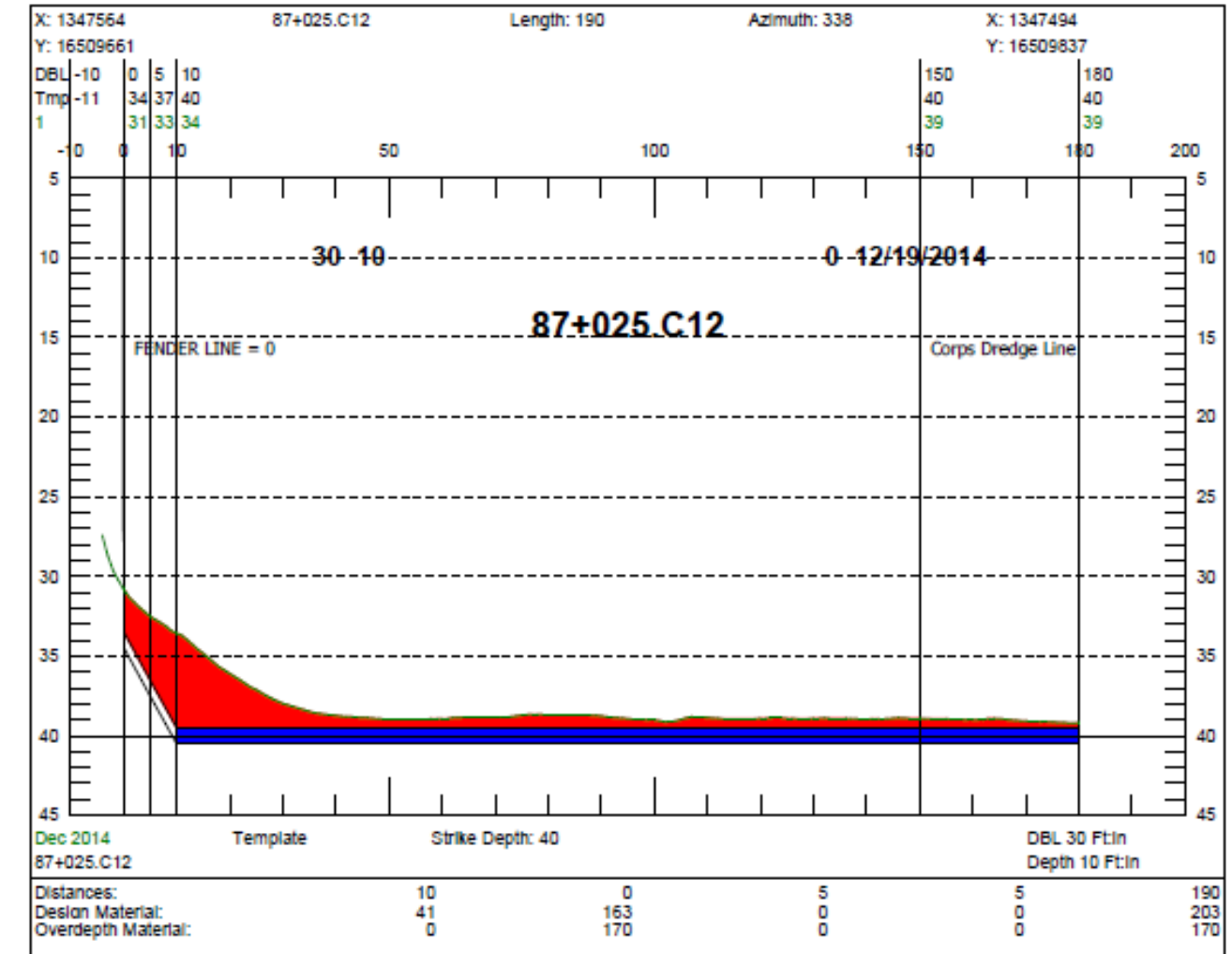
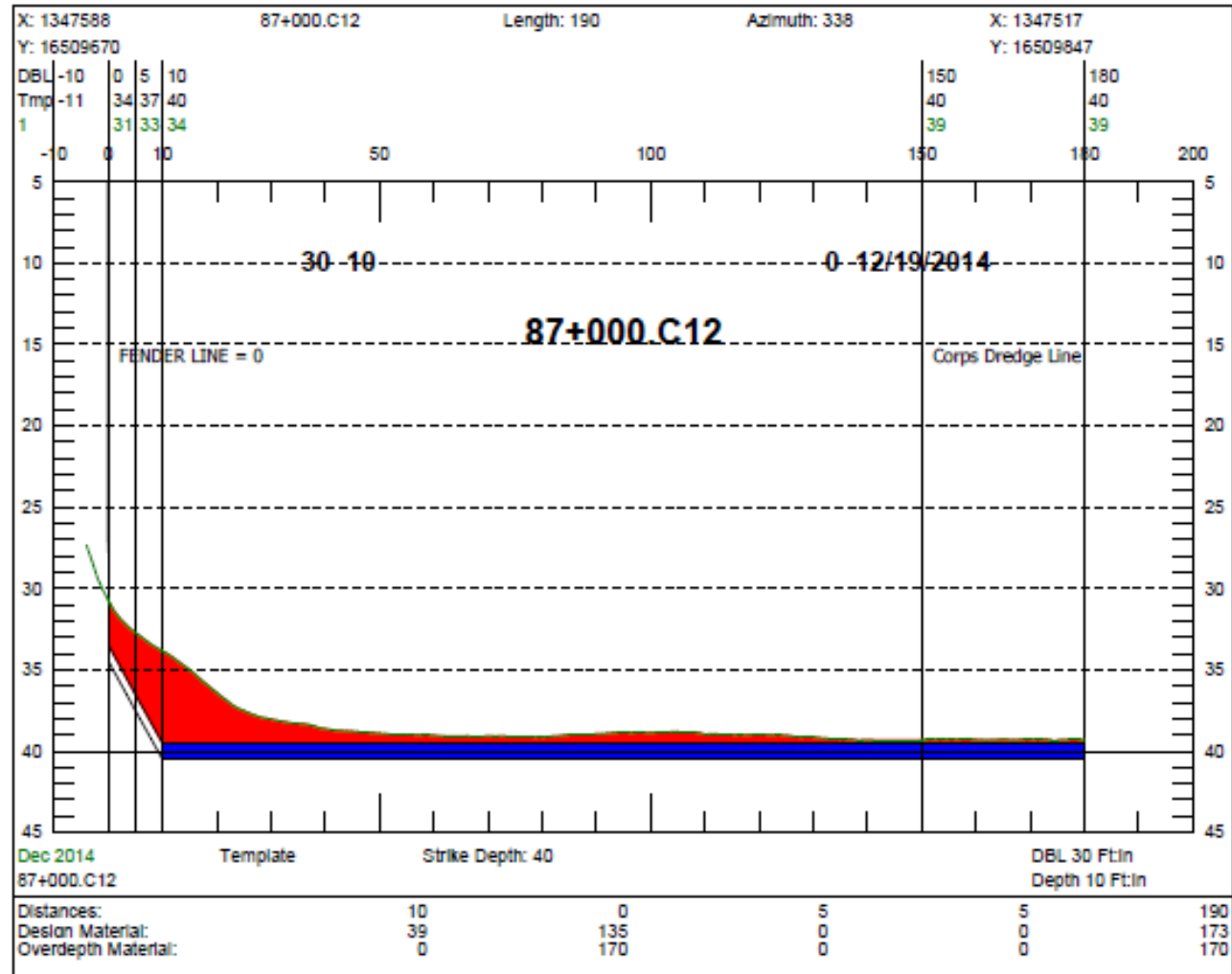
PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 CARGO DOCK NO. 12  
 CARGO DOCK 12  
 SCALE: NOTED  
 DWN. BY: JMN  
 PLAN SHEET 1 OF 1  
 PAGE CD12-2 OF 14  
 JUN. 2015



Sheet 1 Of 23	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 12
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Date	12/19/2014
File	

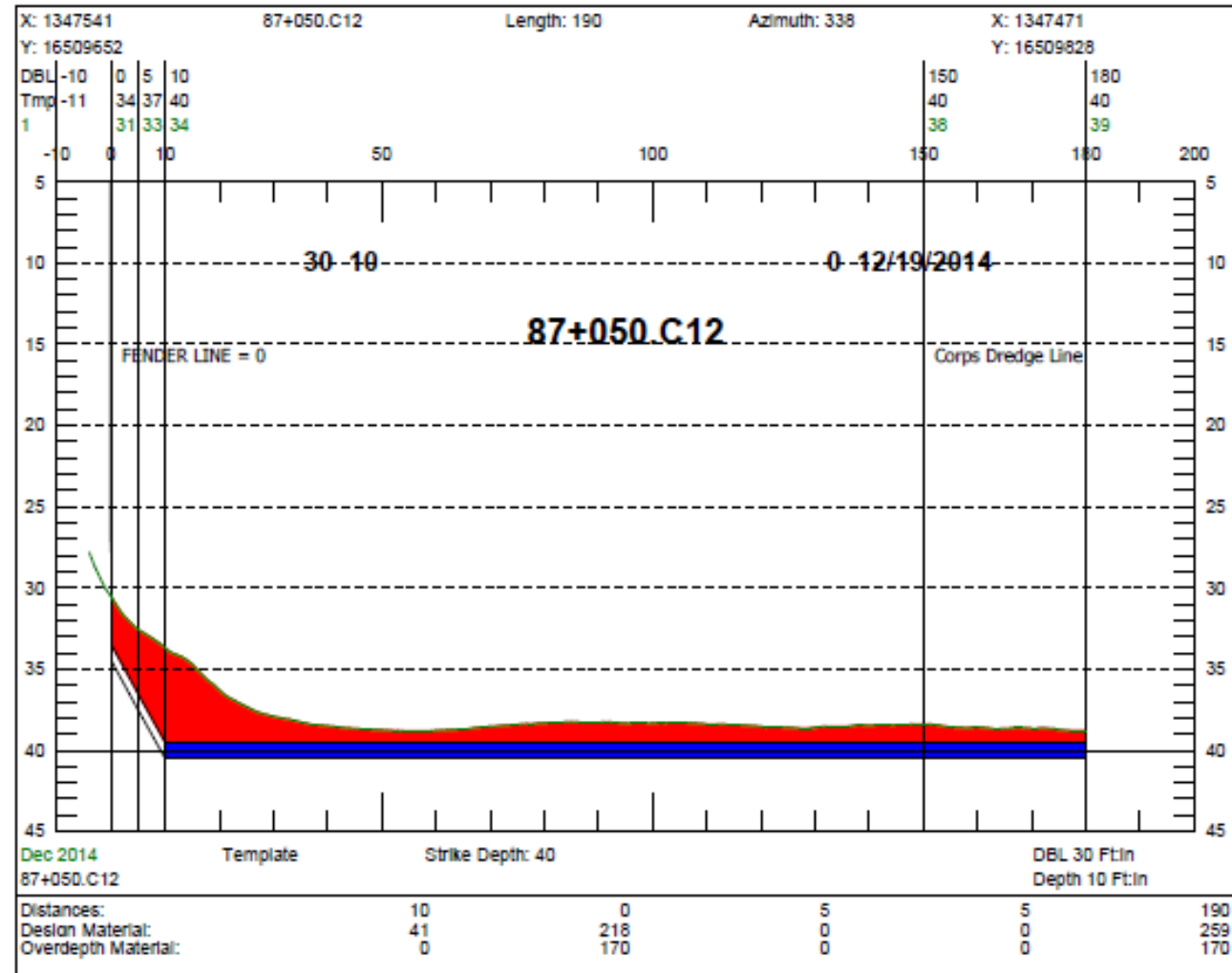


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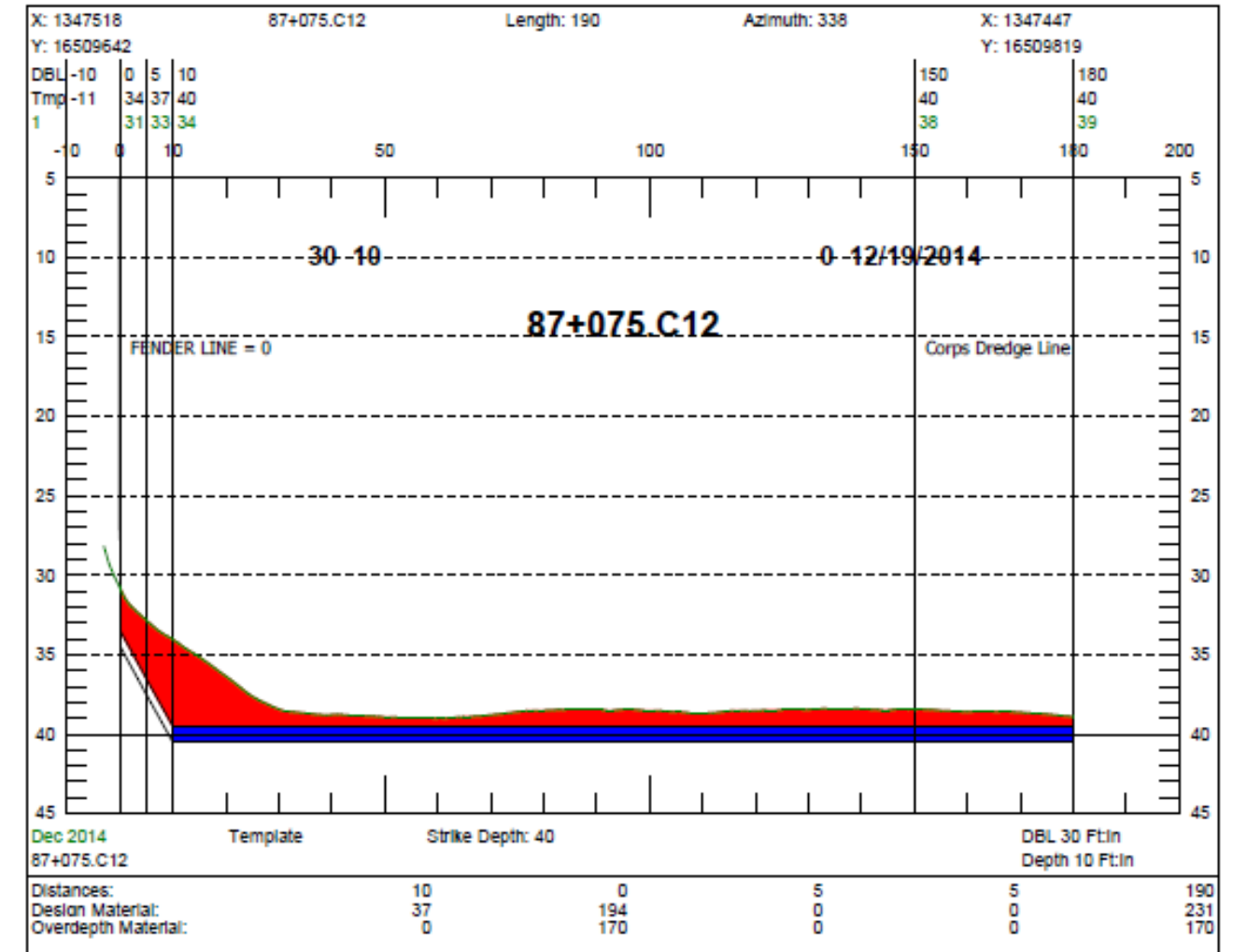


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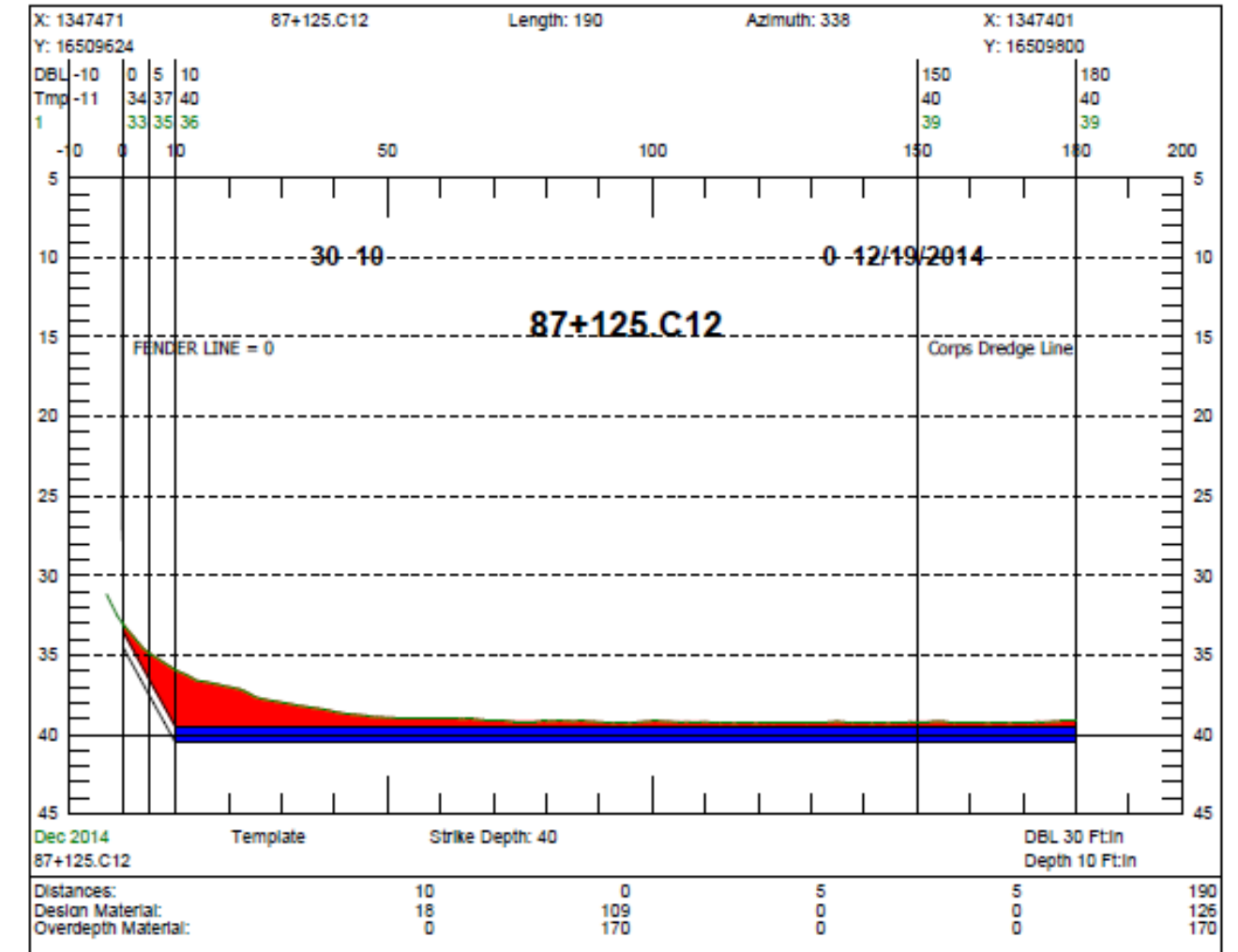
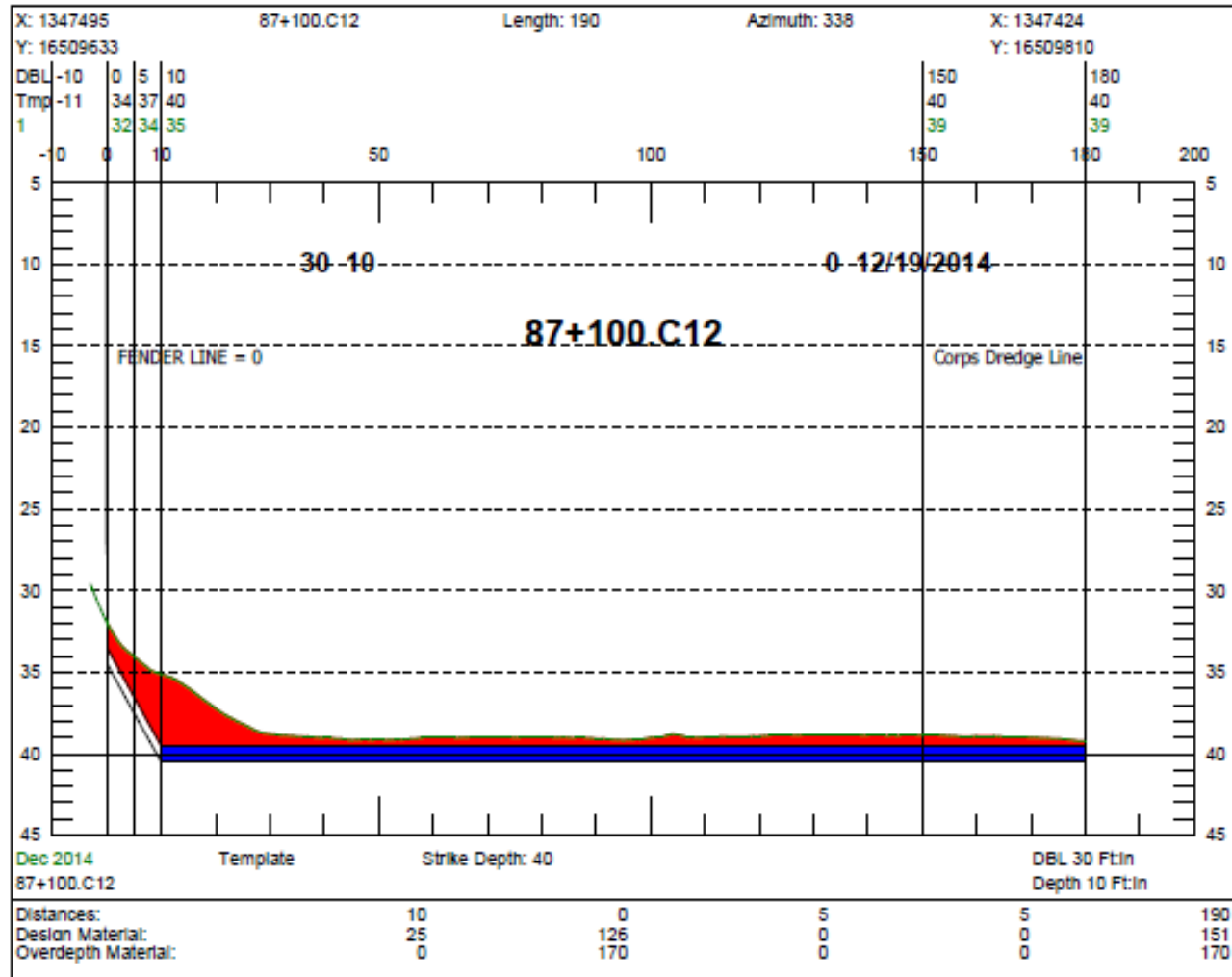
Sheet 4 Of 23	Dec 2014
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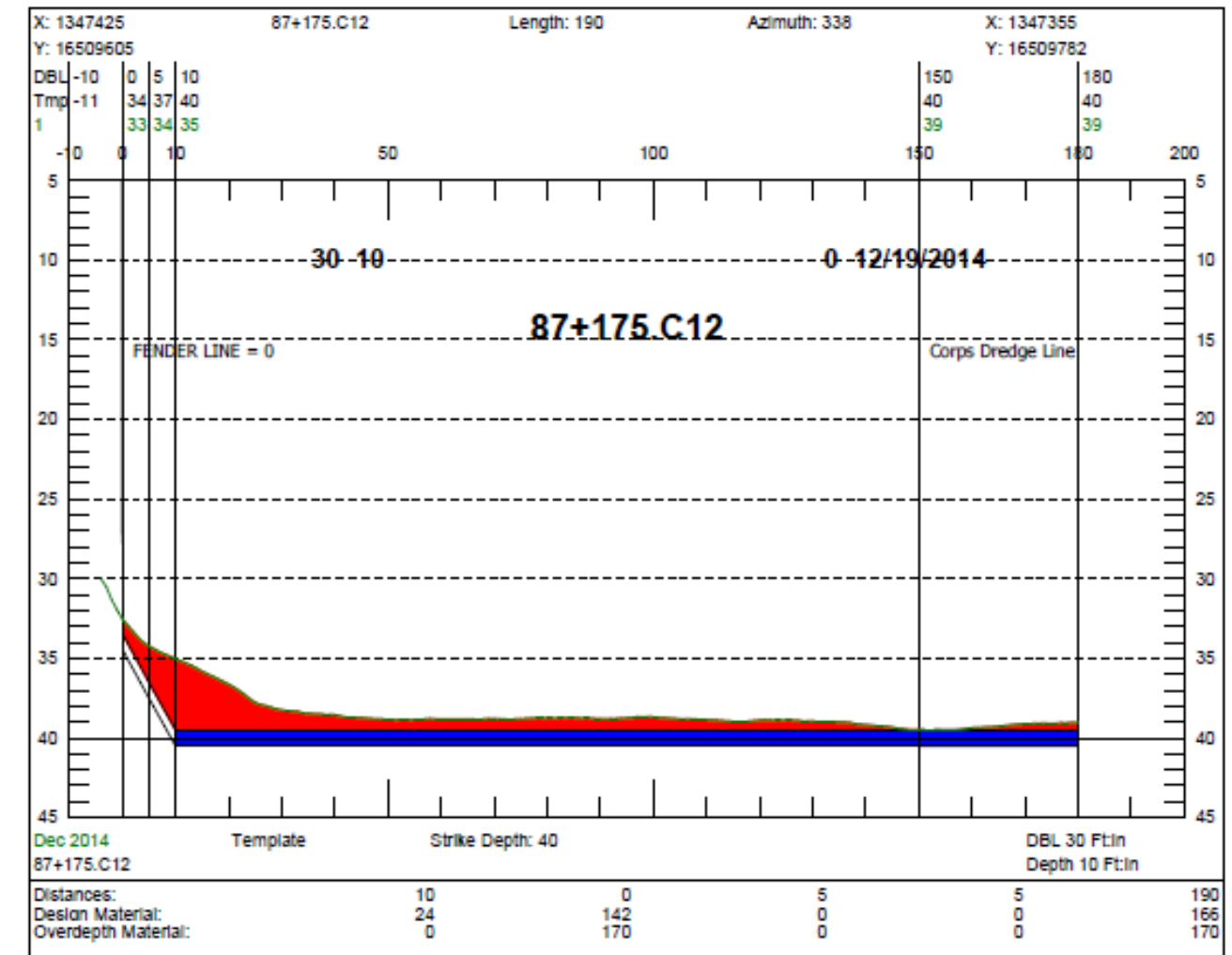
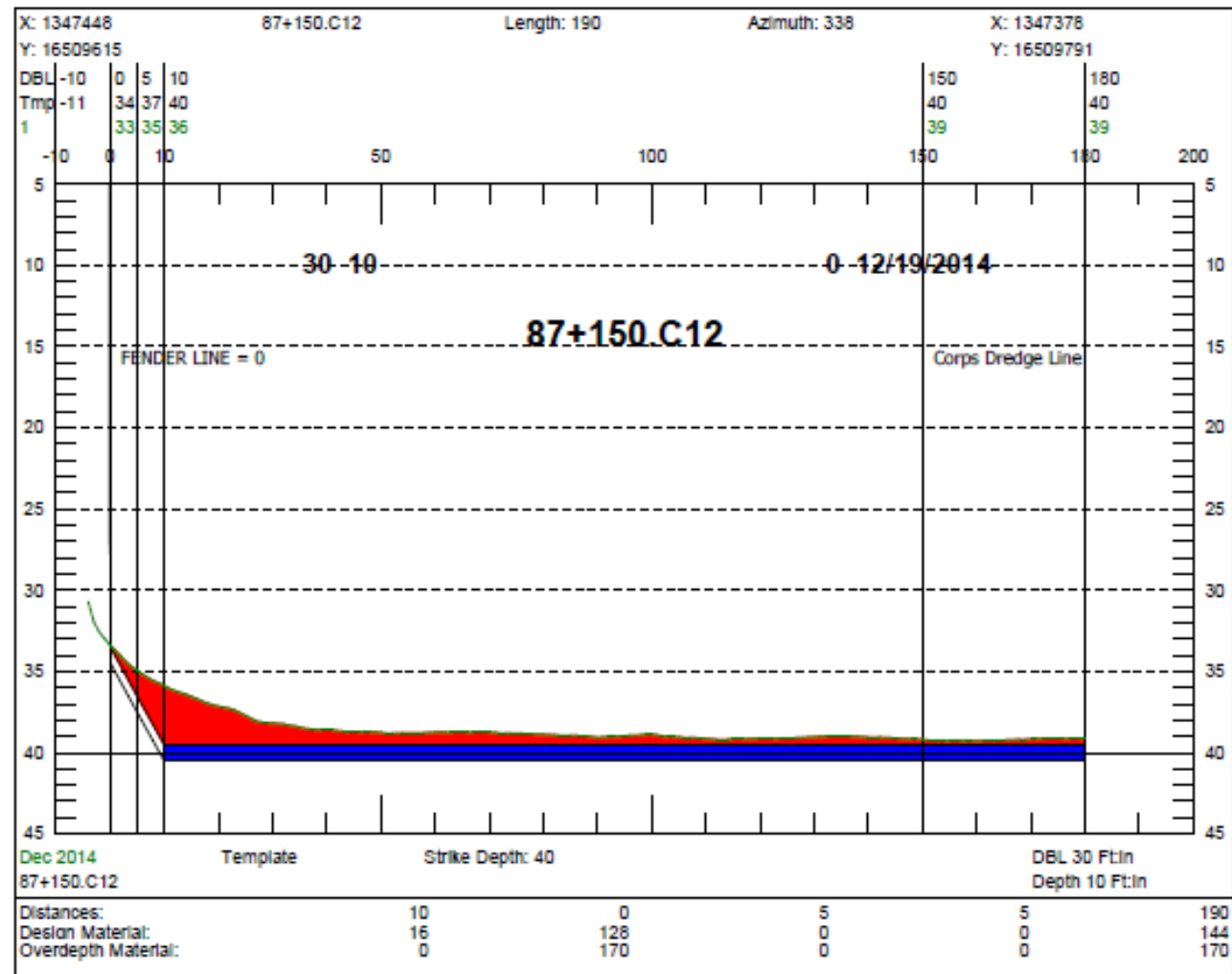


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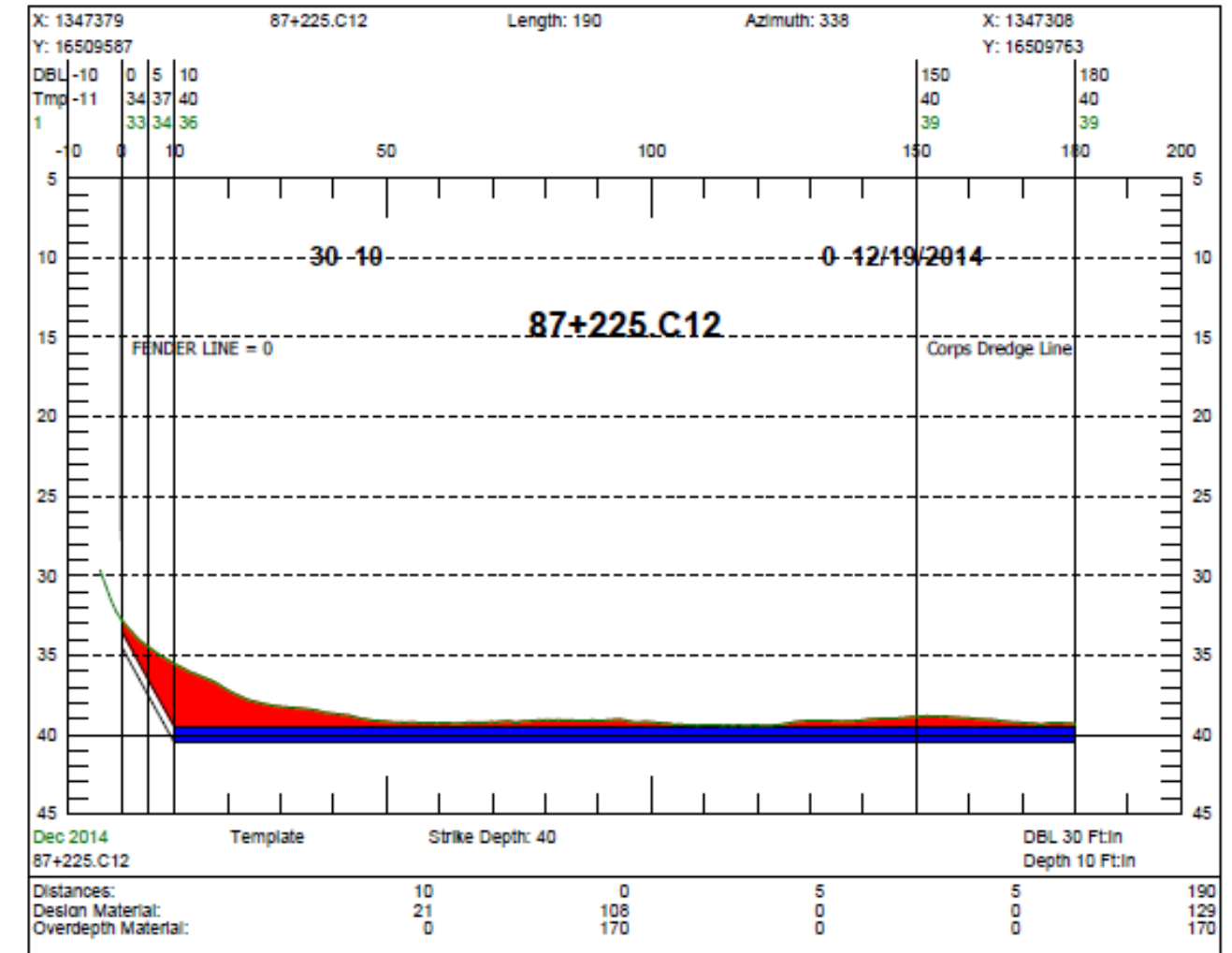
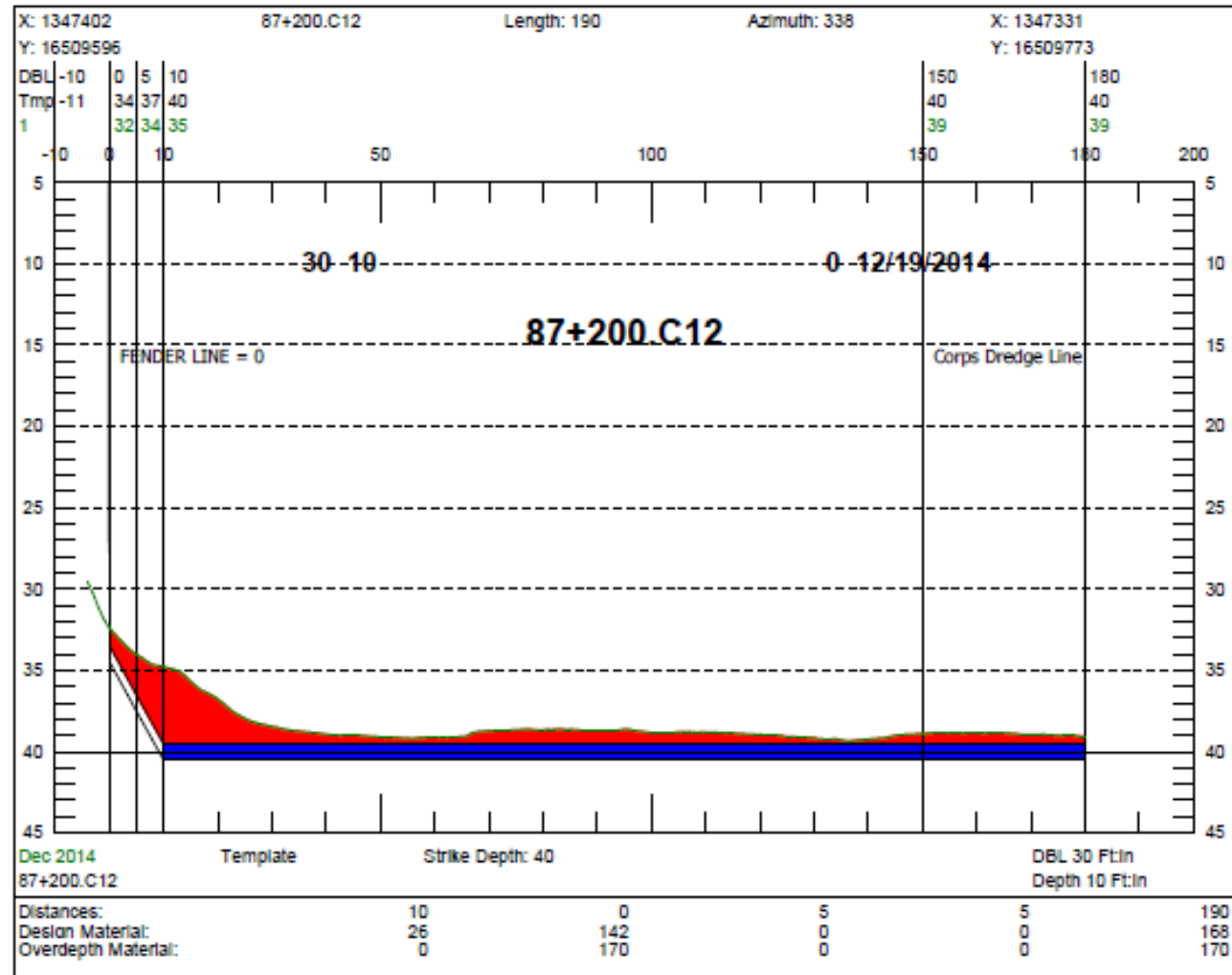
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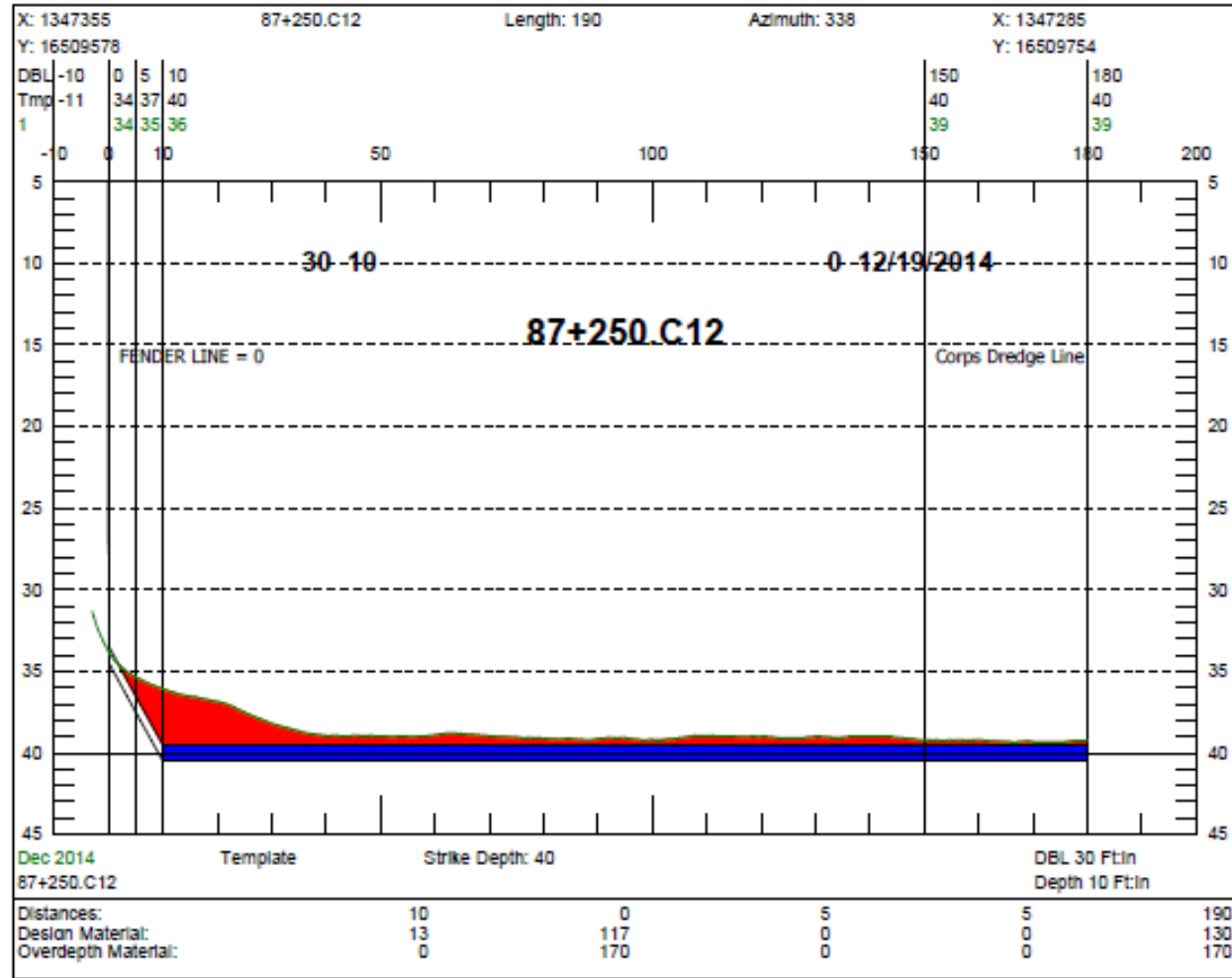
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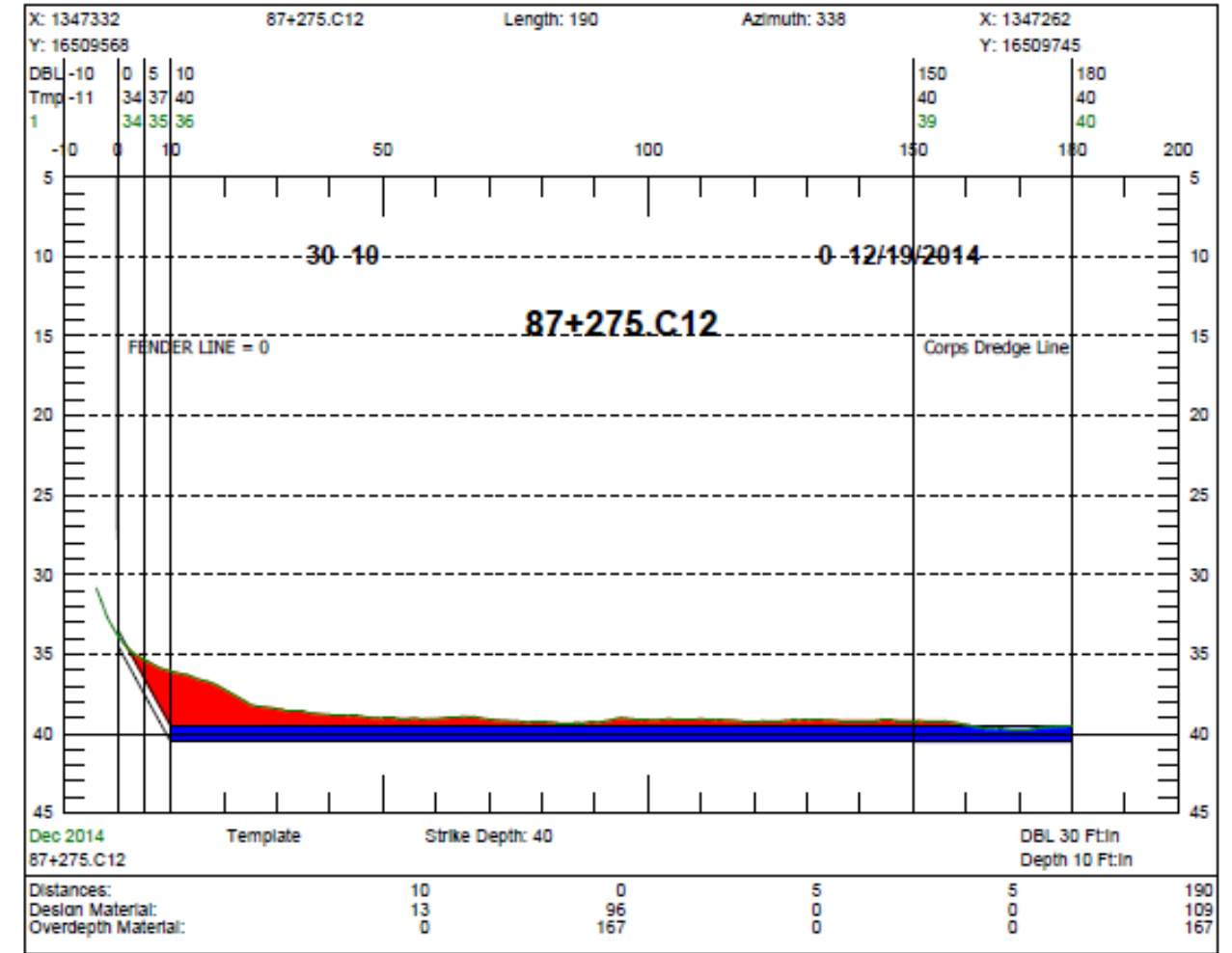


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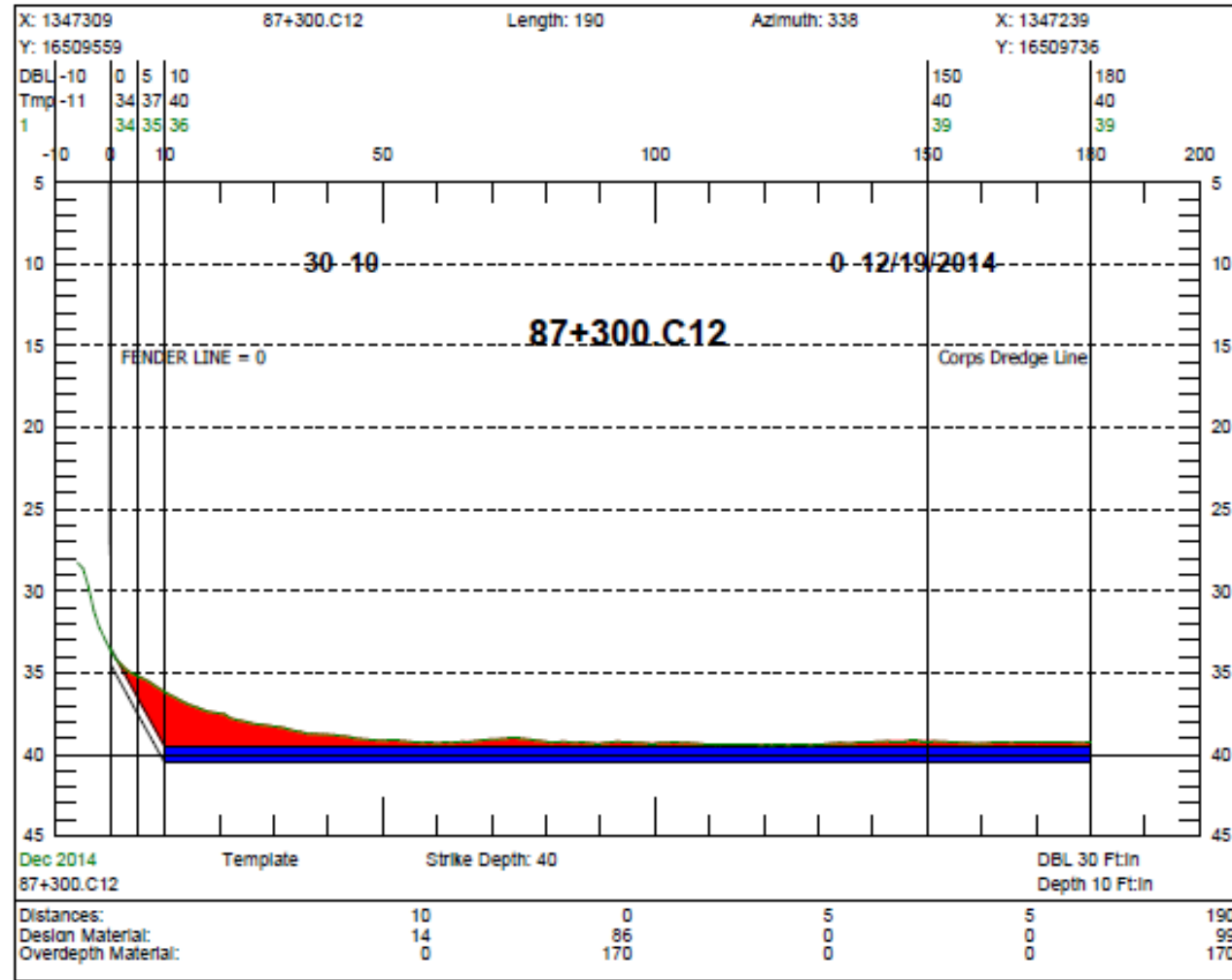


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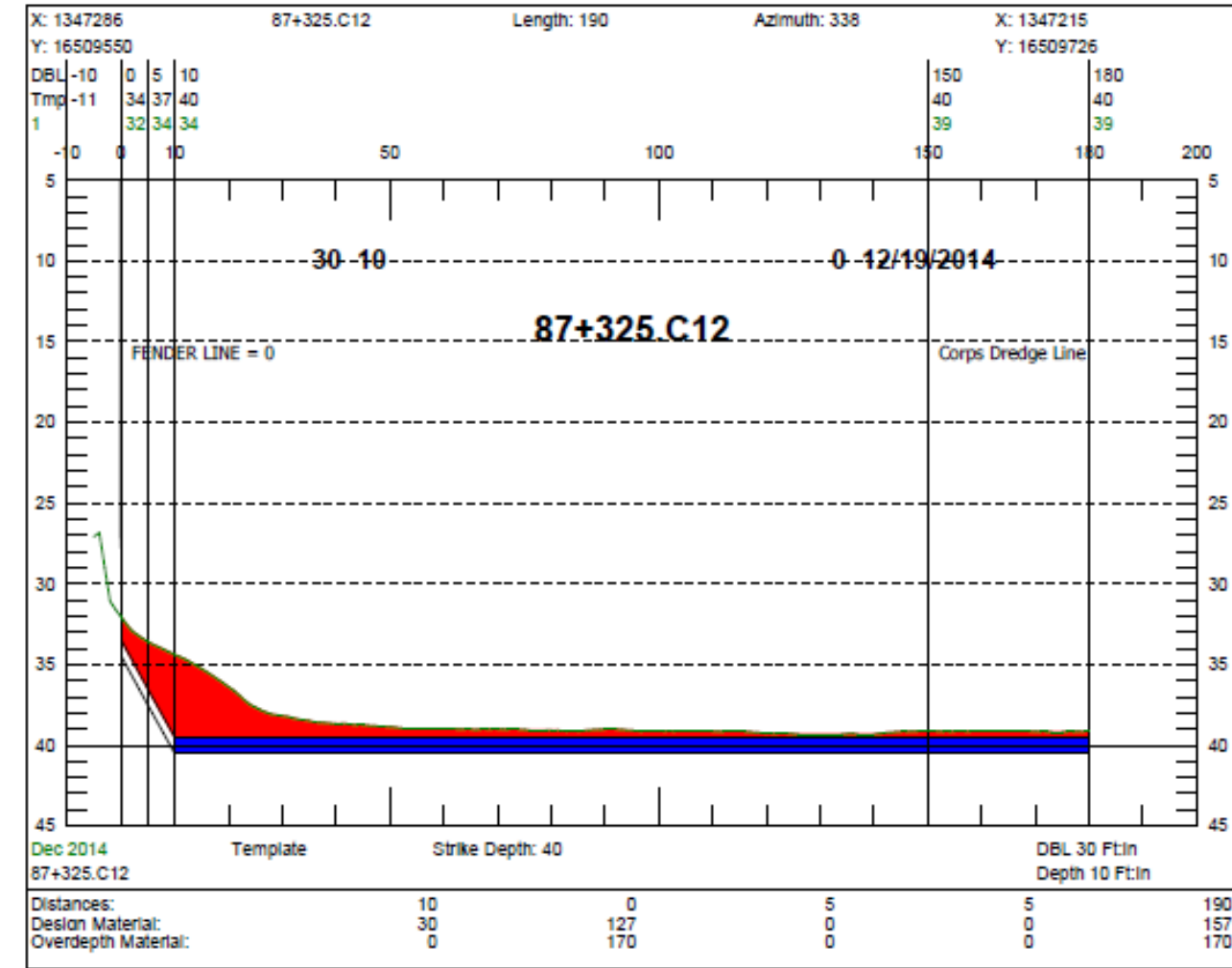


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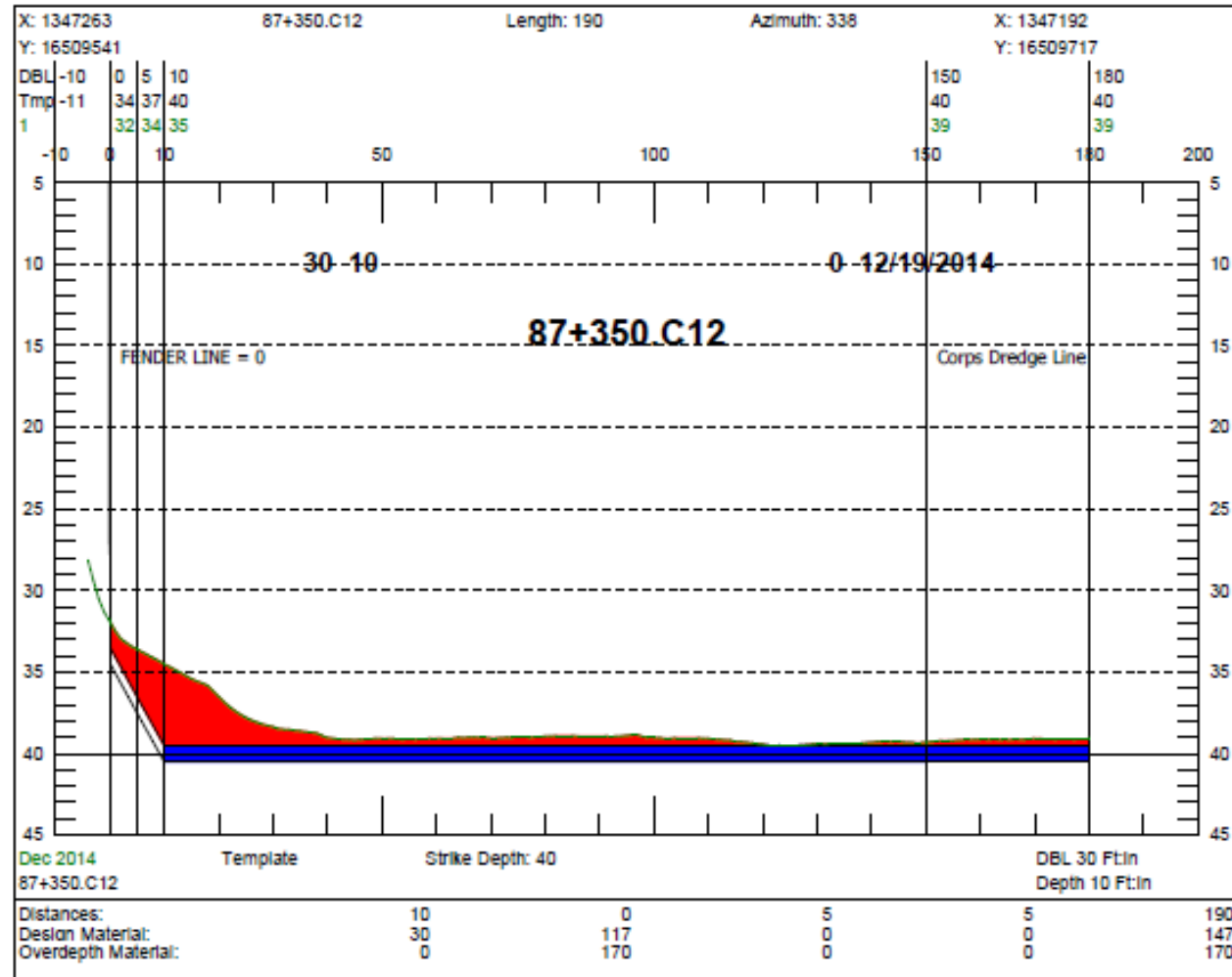




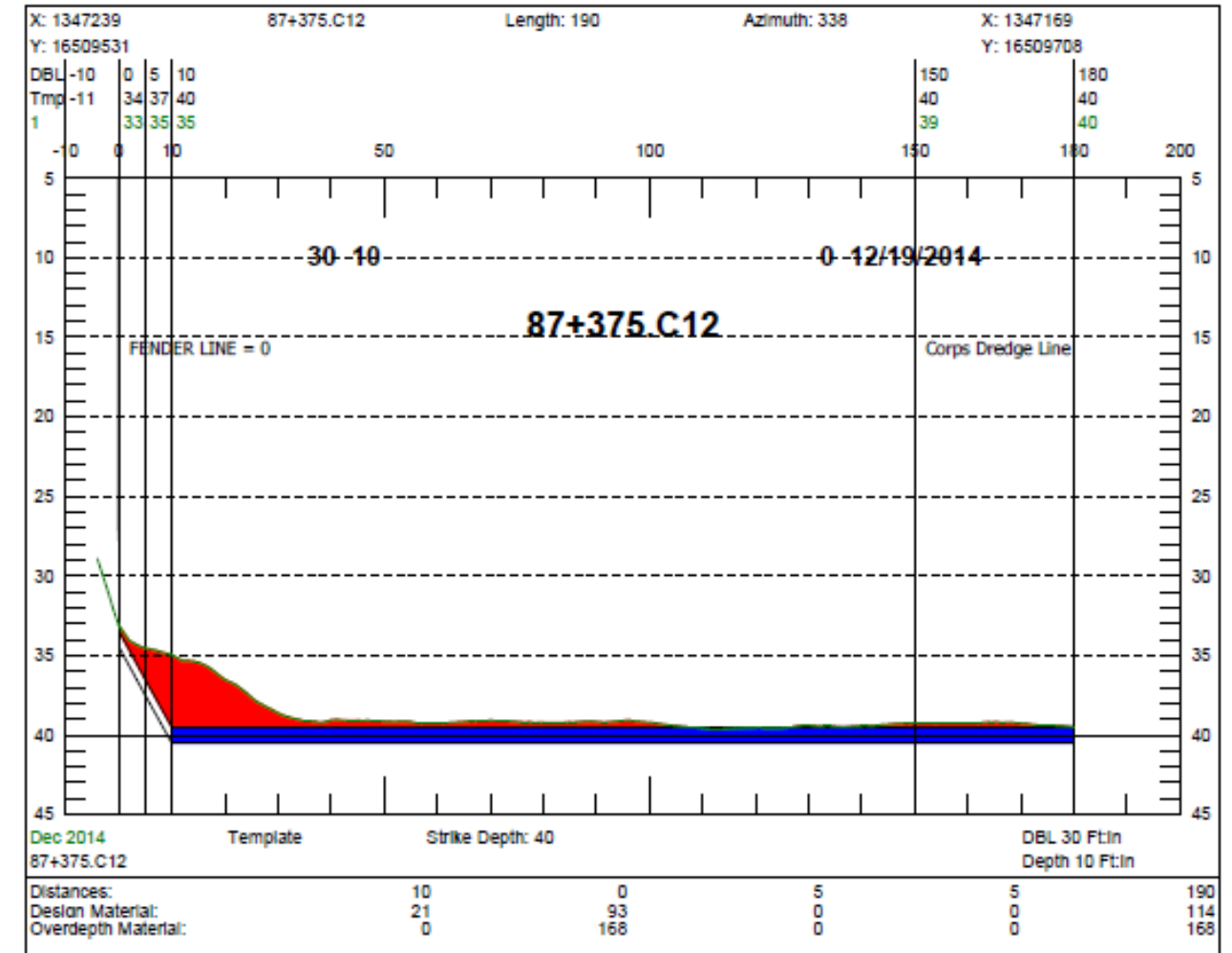
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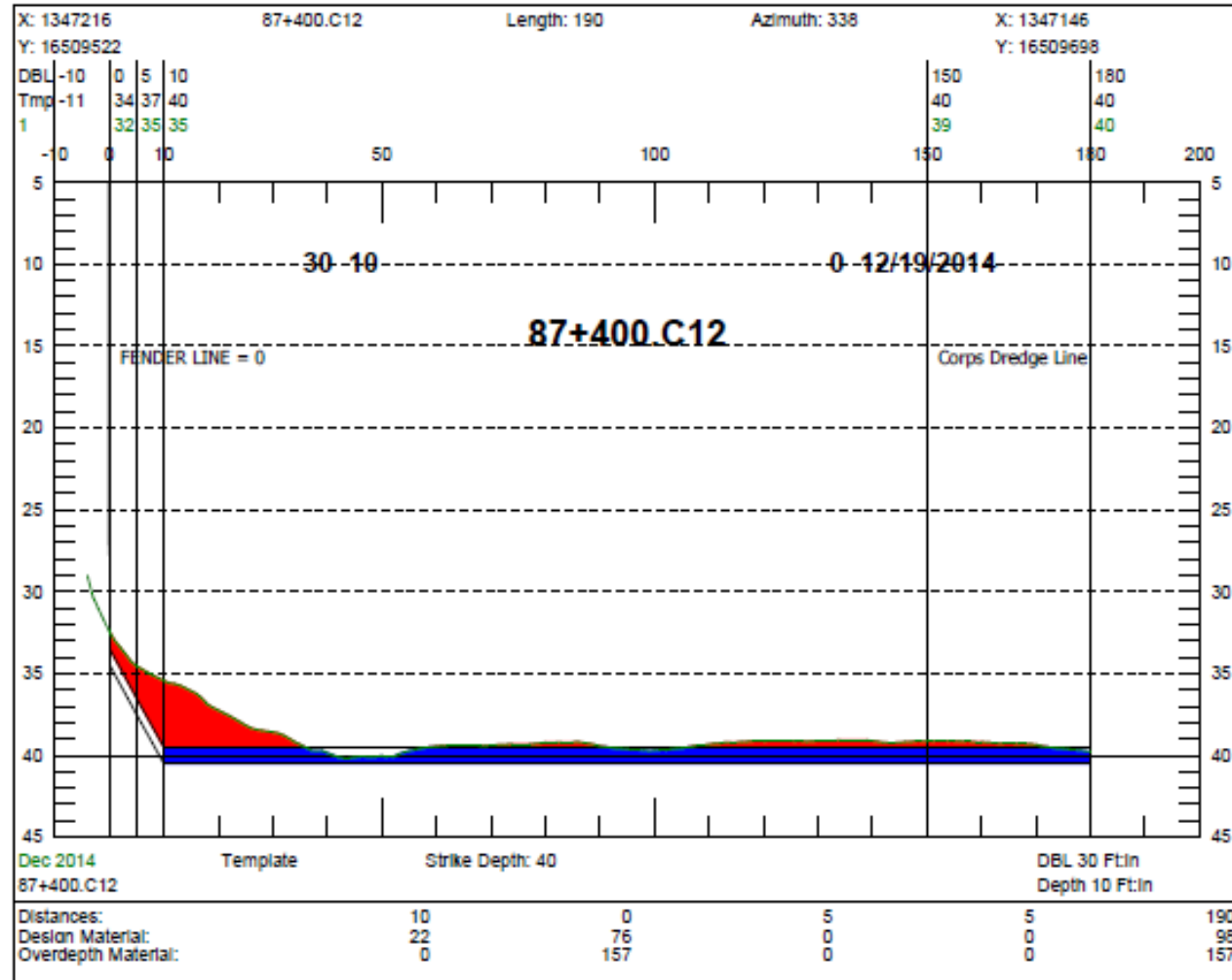
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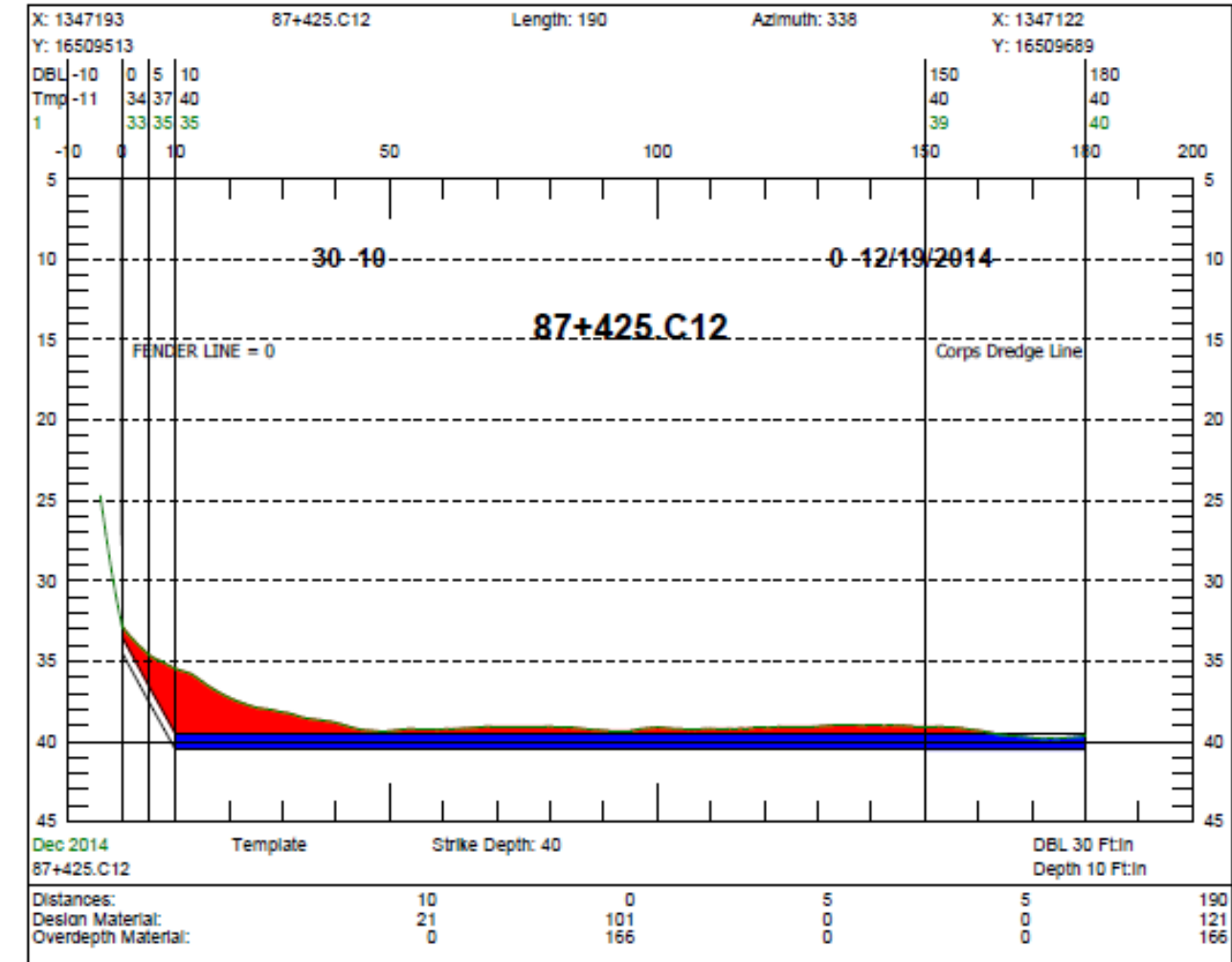
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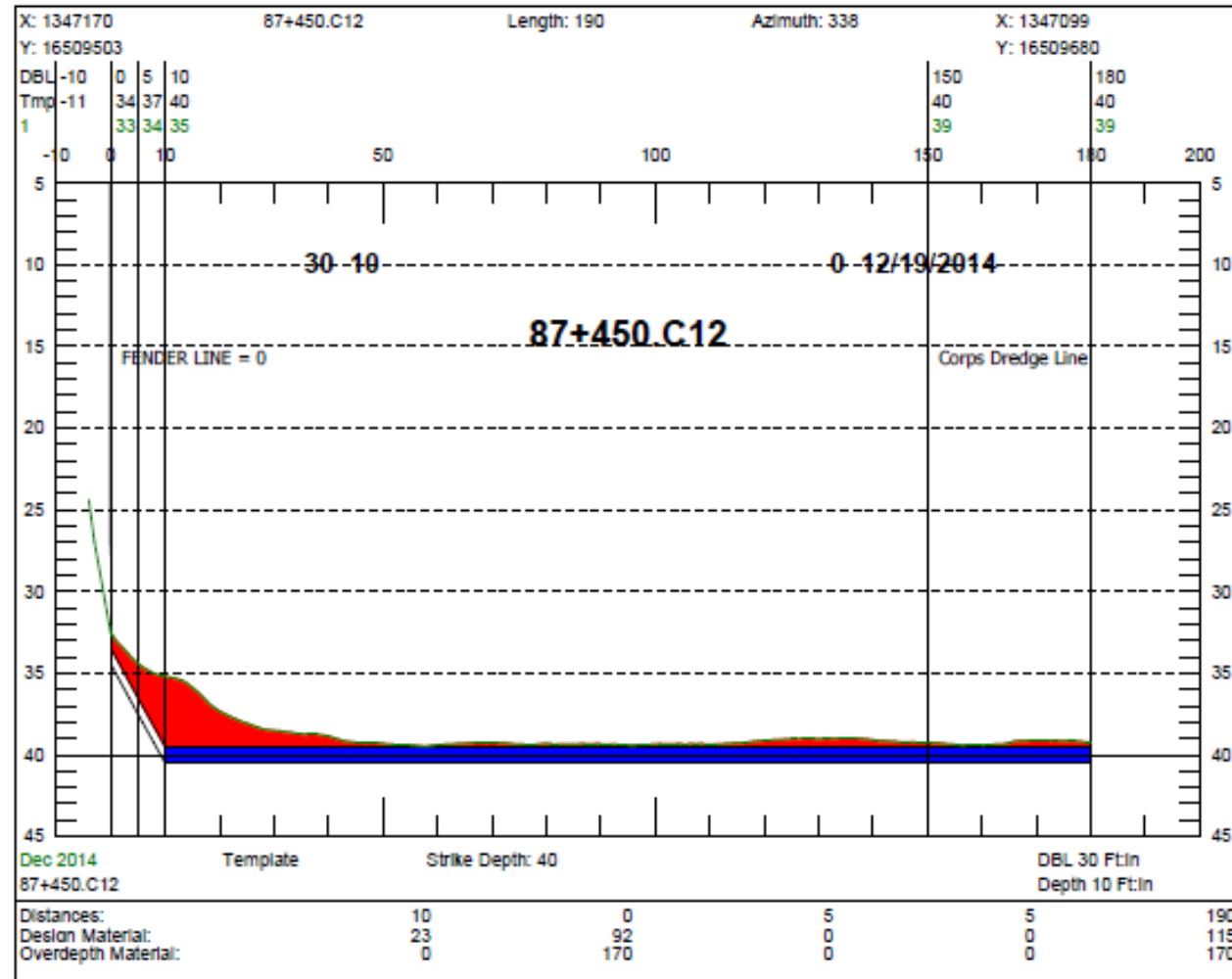
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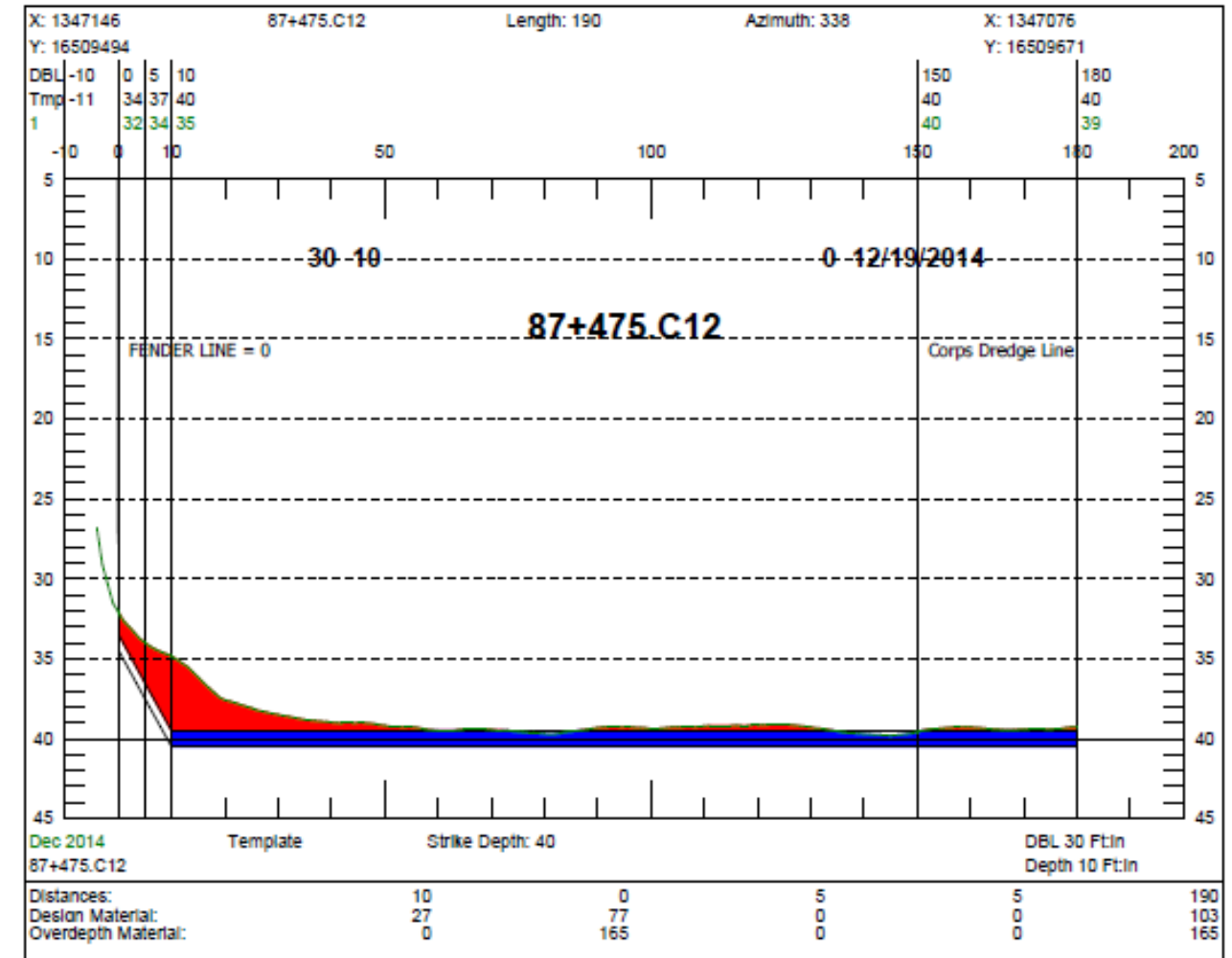
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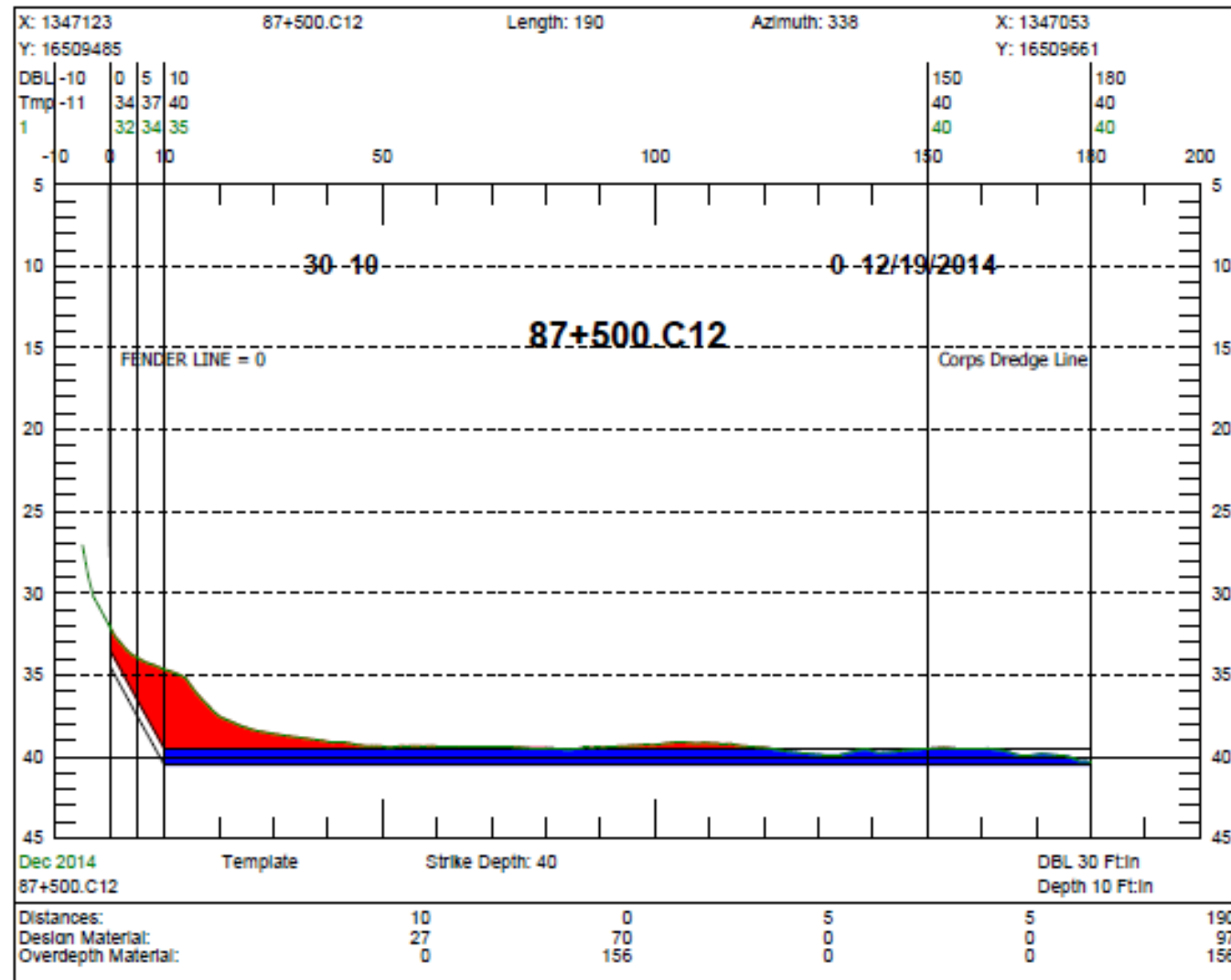
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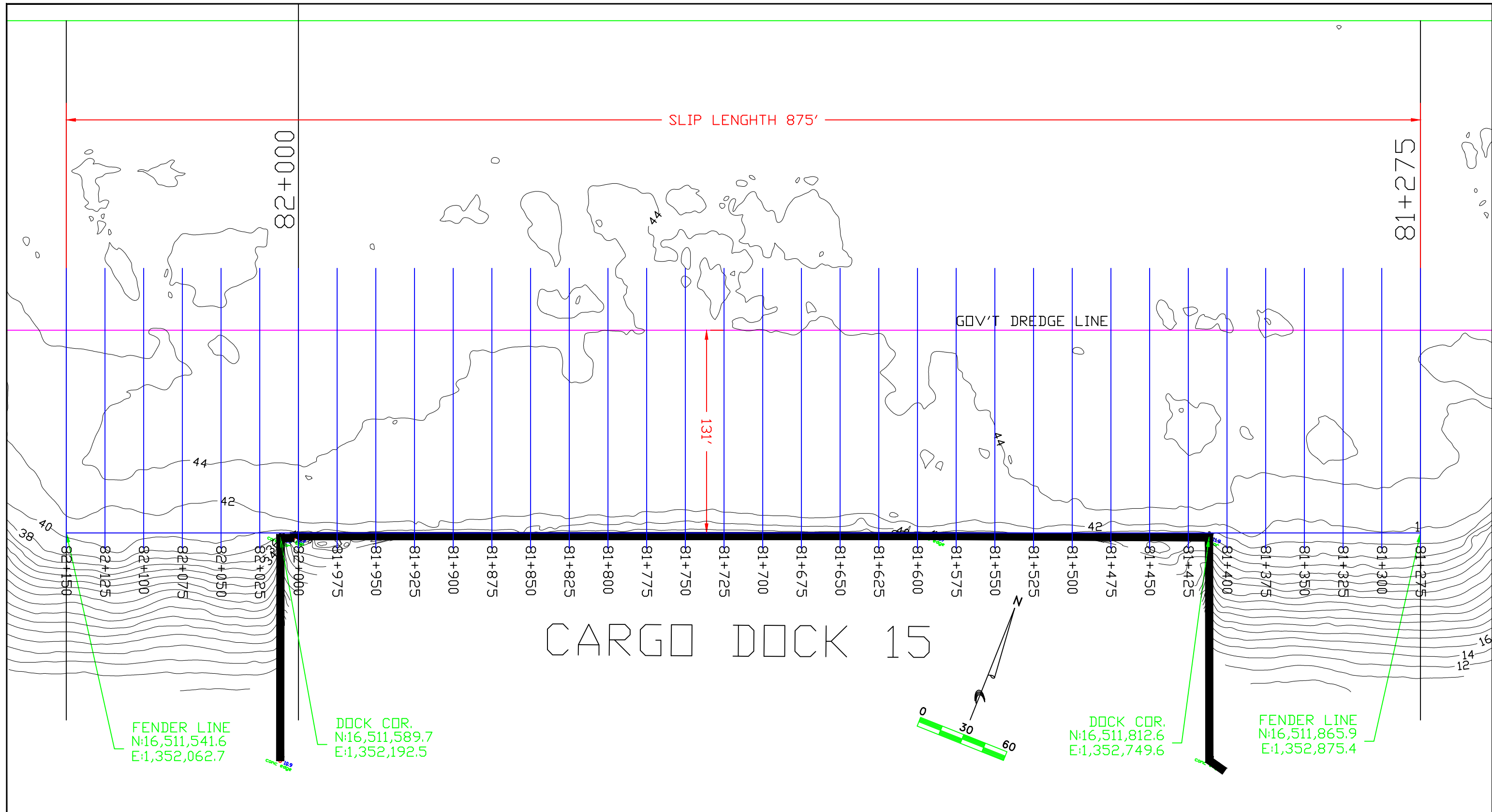


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Date	12/19/2014
File	

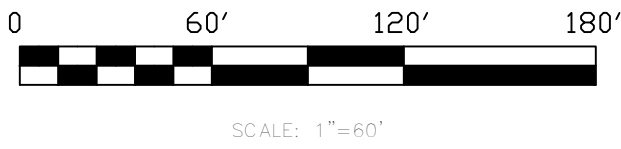
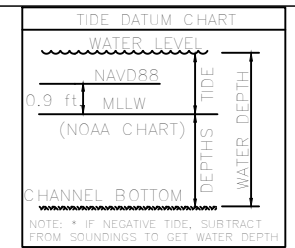


Sheet 23 Of 23	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 12
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**CARGO DOCK 15**



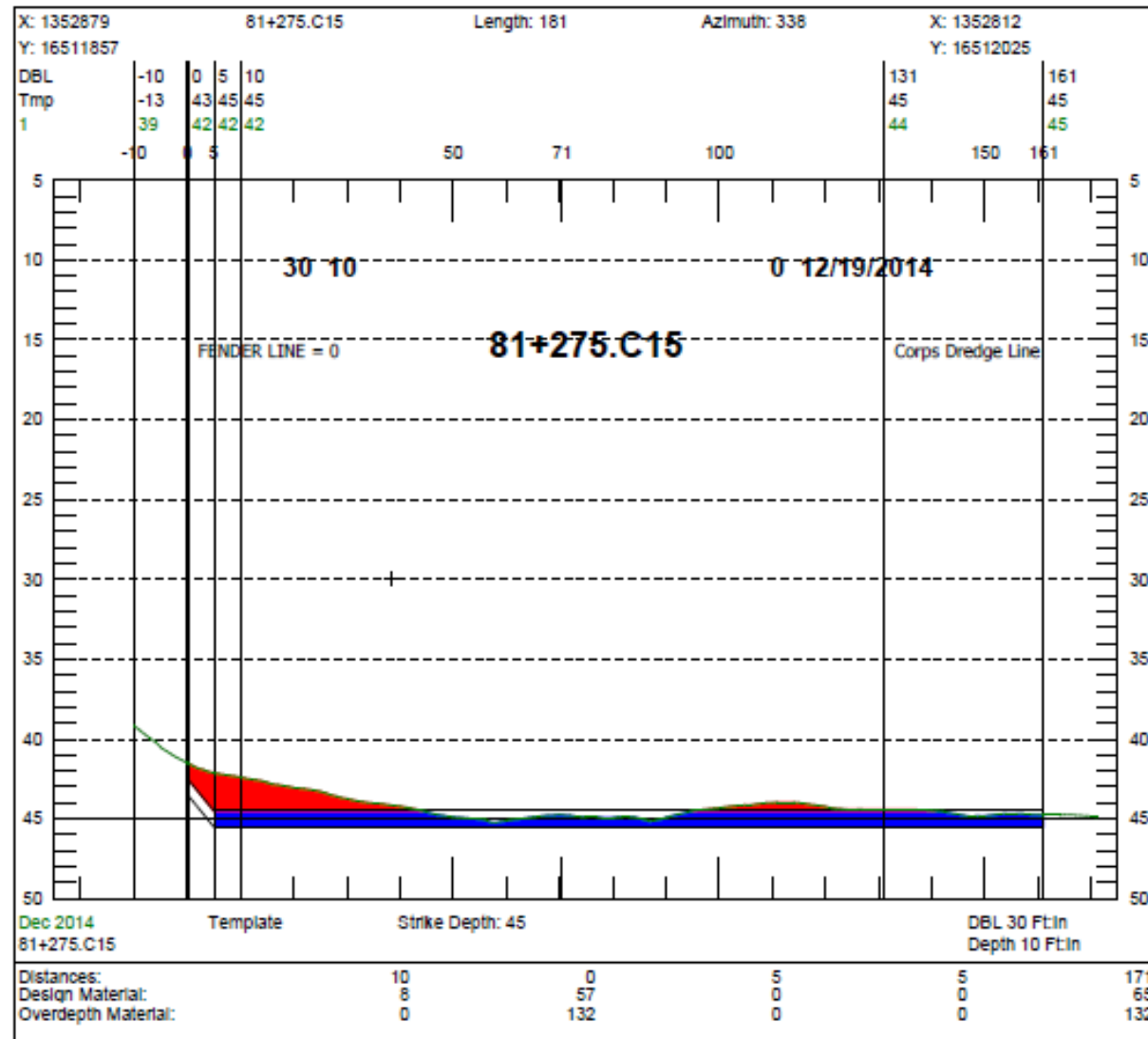
**NOTES:**  
 1) DEPTHS/ELEVATIONS WERE MEASURED BY NAISMITH MARINE SERVICES ON DECEMBER 19, 2014. SEA FLOOR CONDITIONS ARE SUBJECT TO CHANGE.  
 2) HORIZONTAL DATUM: NAD27, TEXAS SOUTH ZONE, US FEET.  
 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
 REFERENCE MONUMENT "535 R/L 1948 89+679.68"  
 N: 105,292.01  
 E: 2,360,559.23  
 ELEV: 14.7' MLLW (13.8' NAVD88)



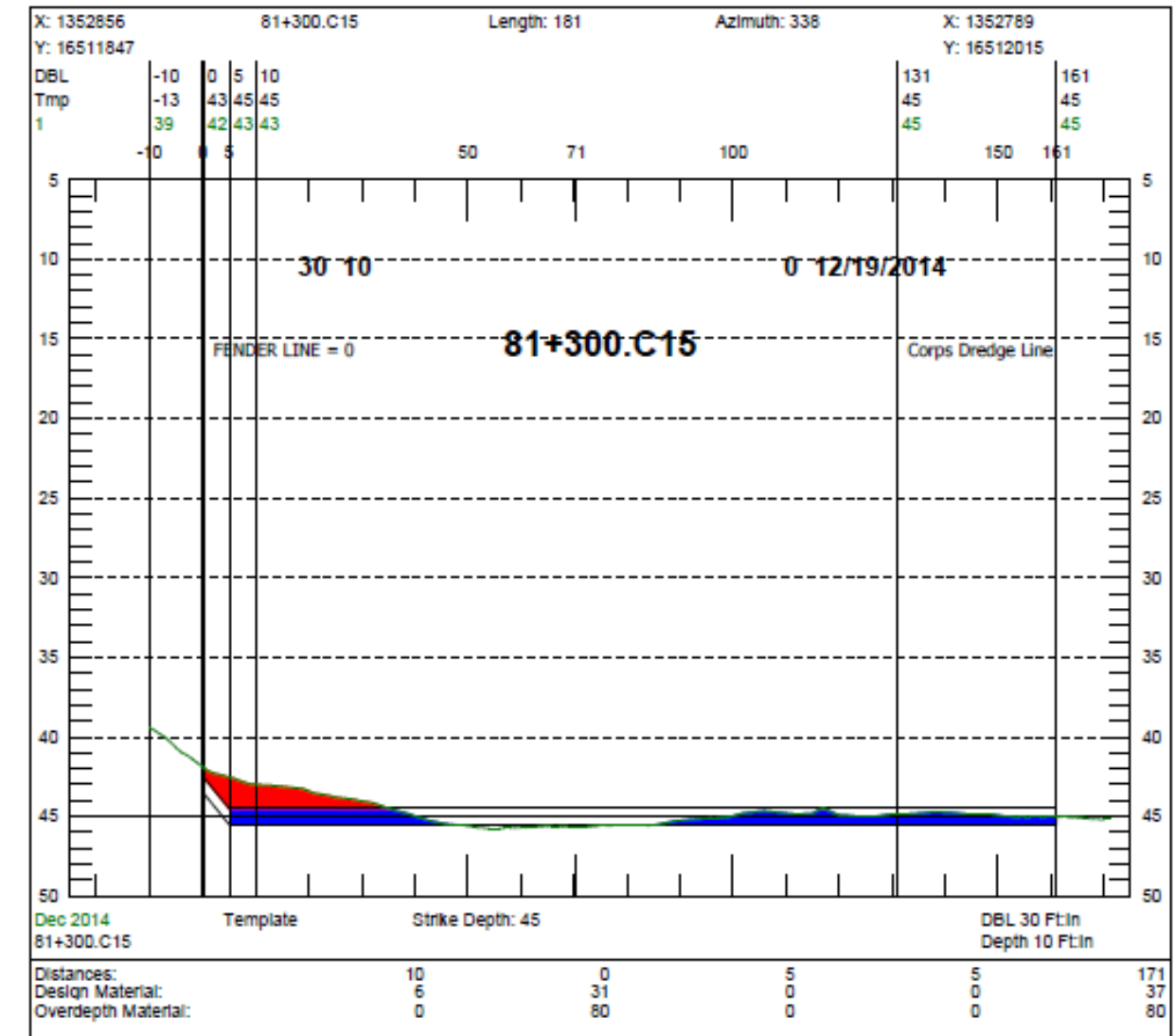
**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
 Corpus Christi, Texas 78411  
 WWW.NAISMITHMARINE.COM  
 (361) 945-0248

NO.	DATE	REVISION

PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 CARGO DOCK NO. 15  
 CARGO DOCK 15  
 SCALE: NOTED  
 DWN. BY: JMN  
 PLAN SHEET 1 OF 1  
 PAGE CD15-2 OF 20  
 JUN. 2015

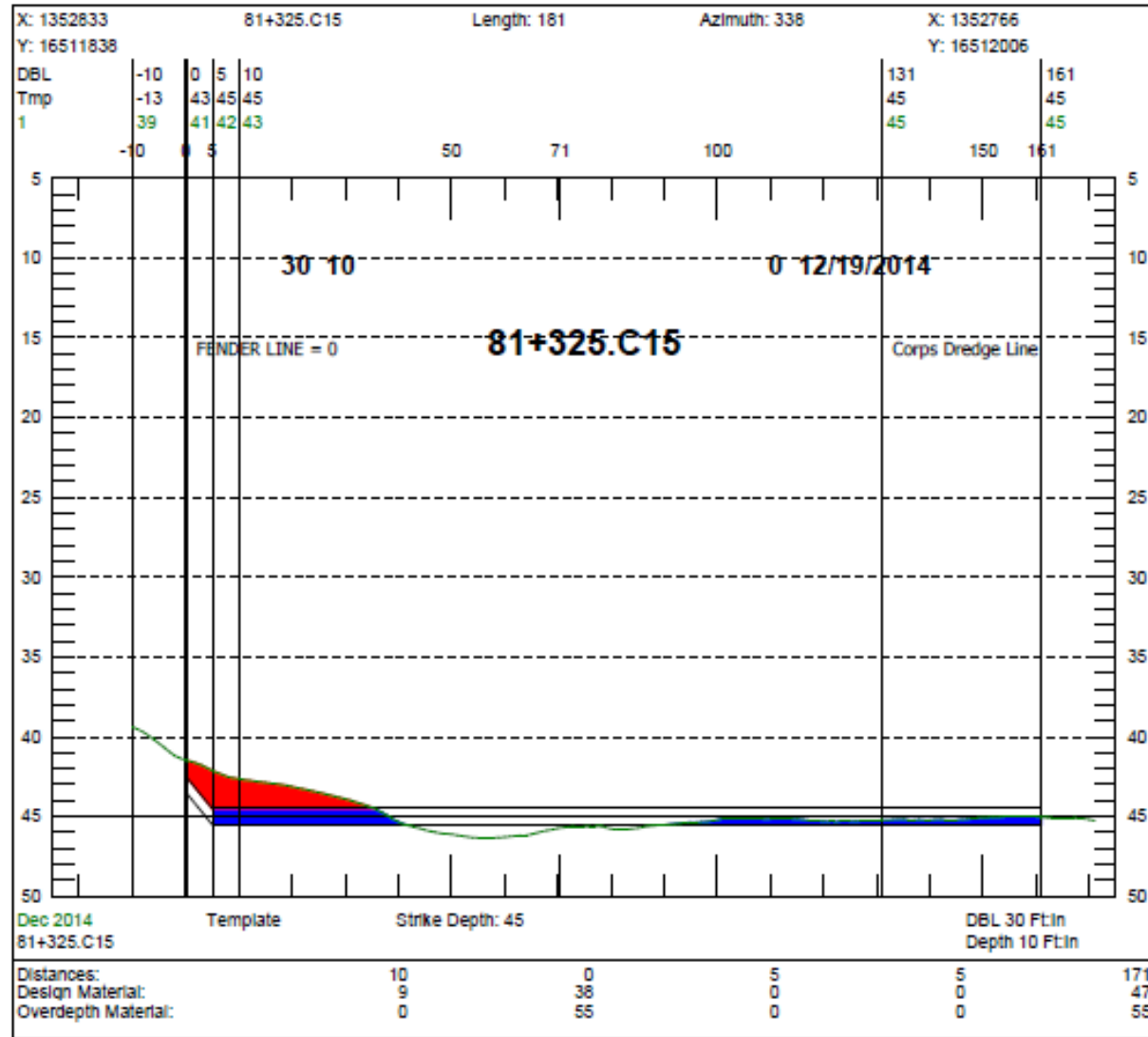


Sheet 1 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

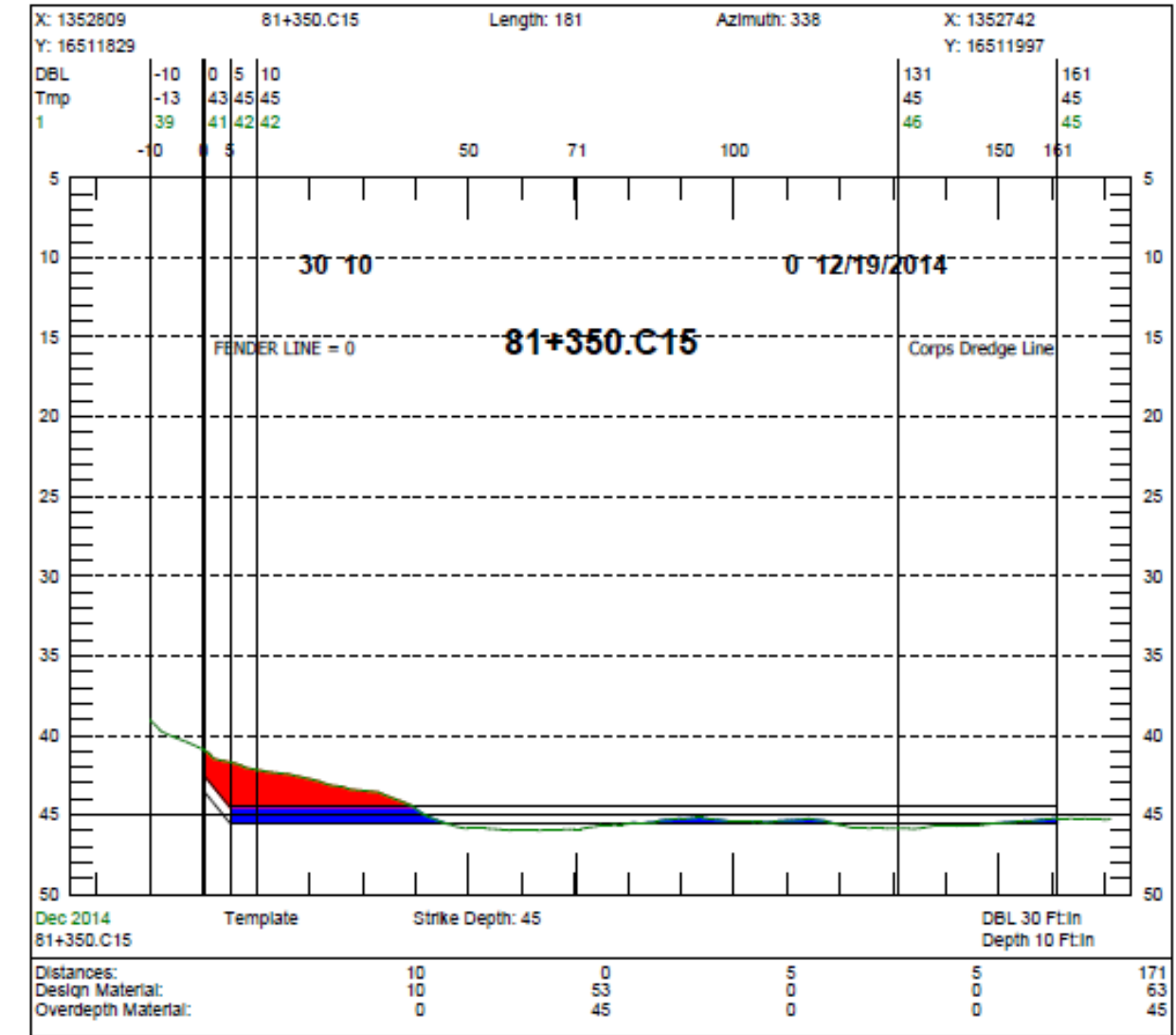


Sheet 2 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

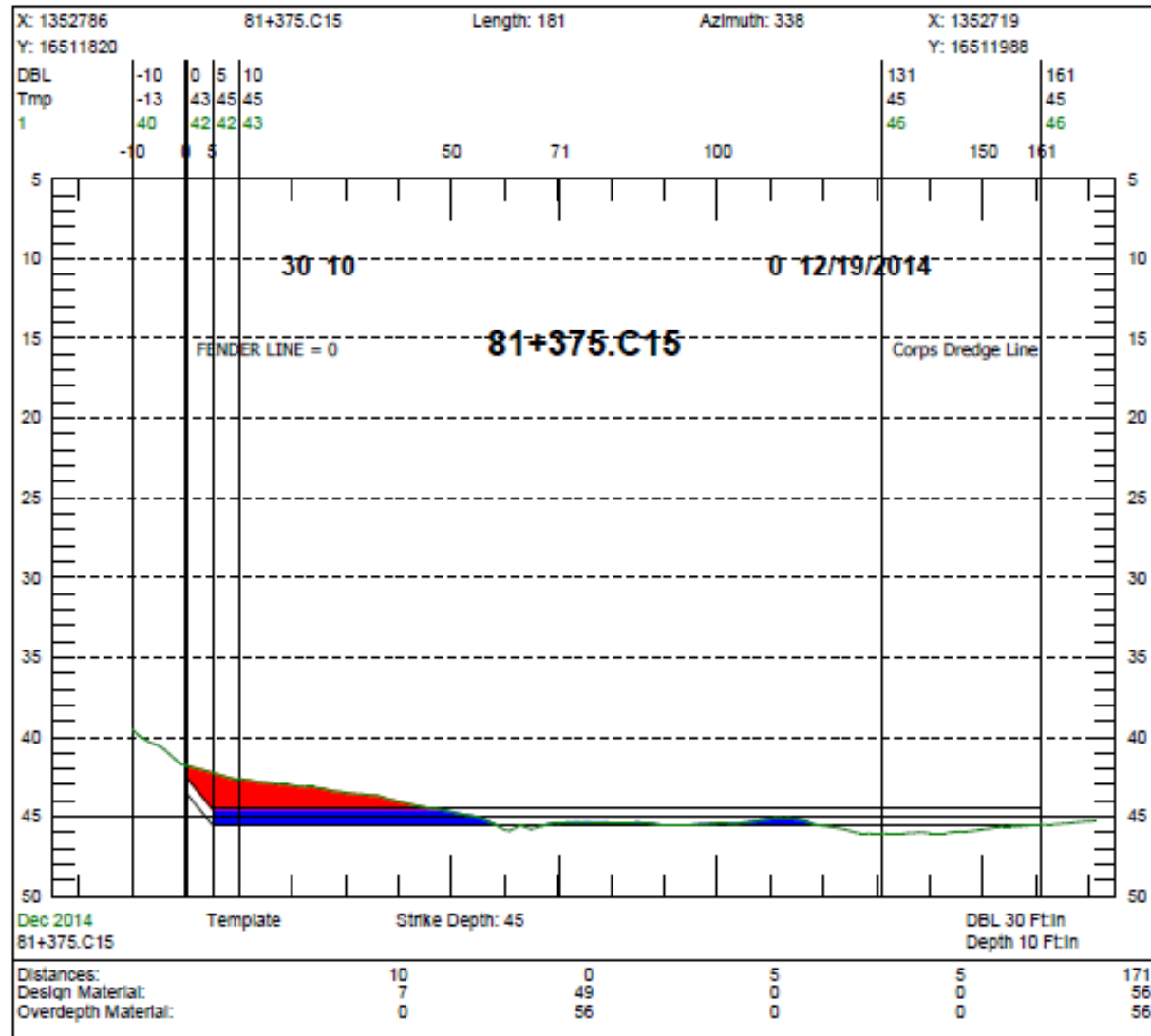




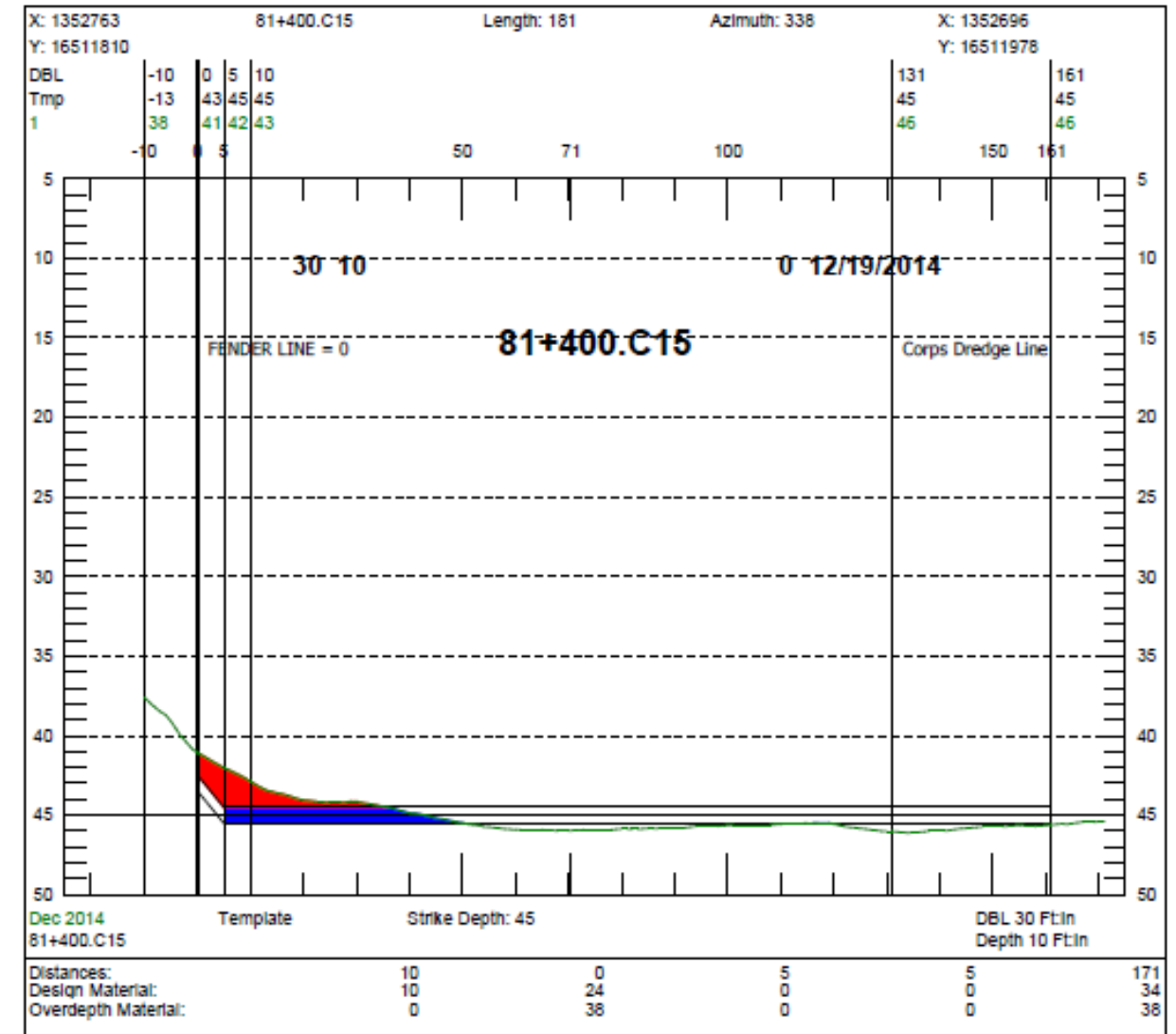
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



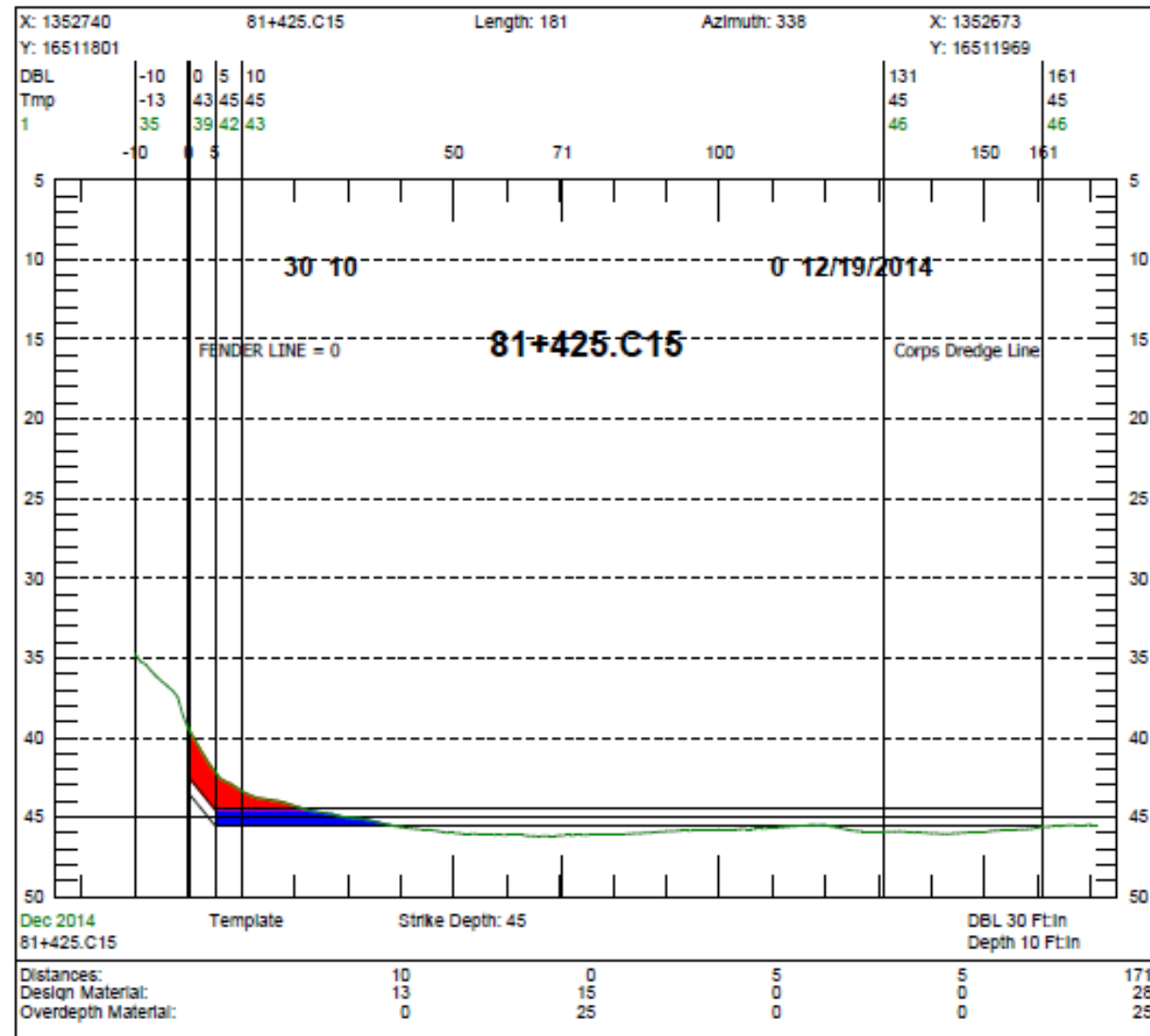
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



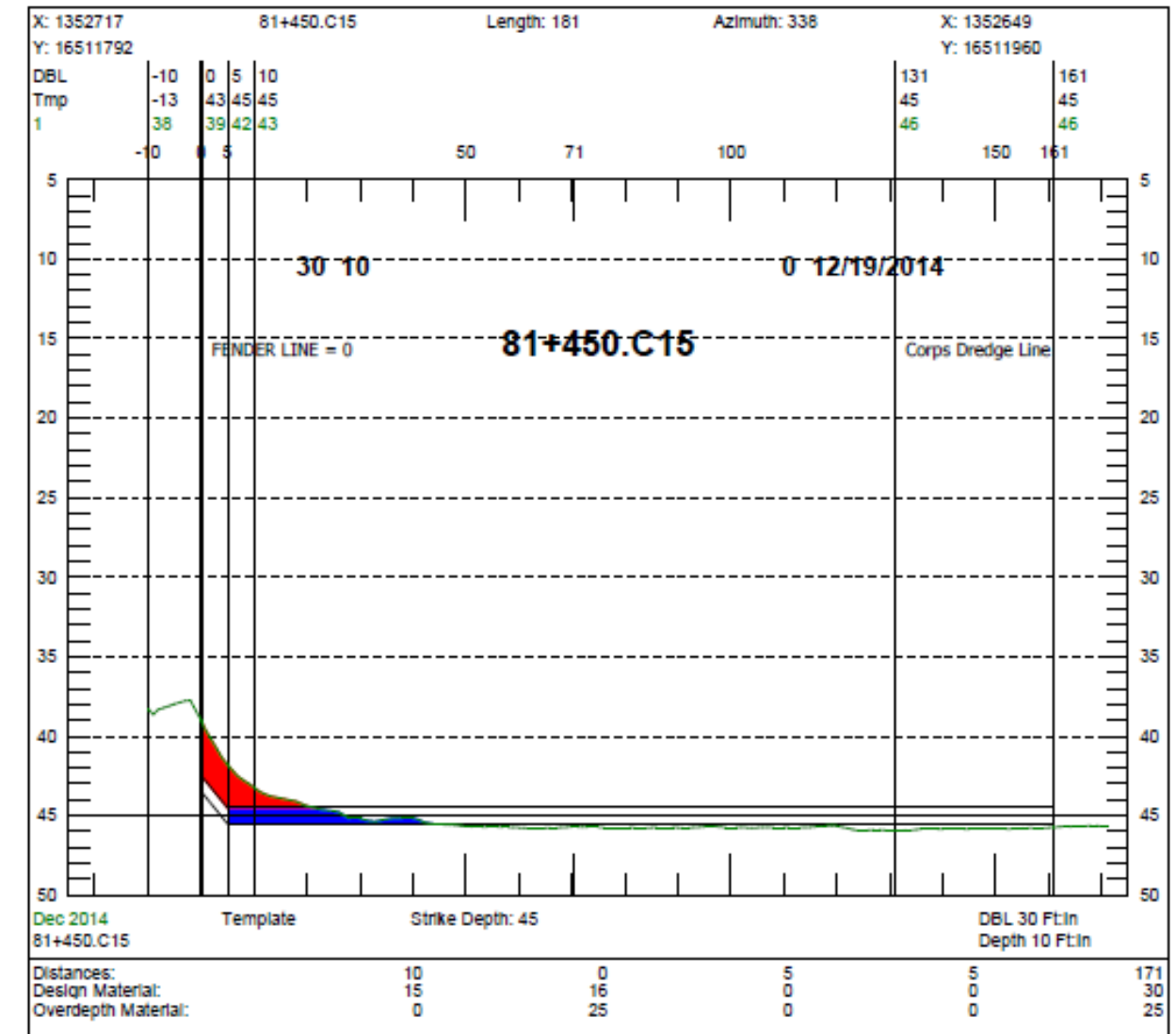
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



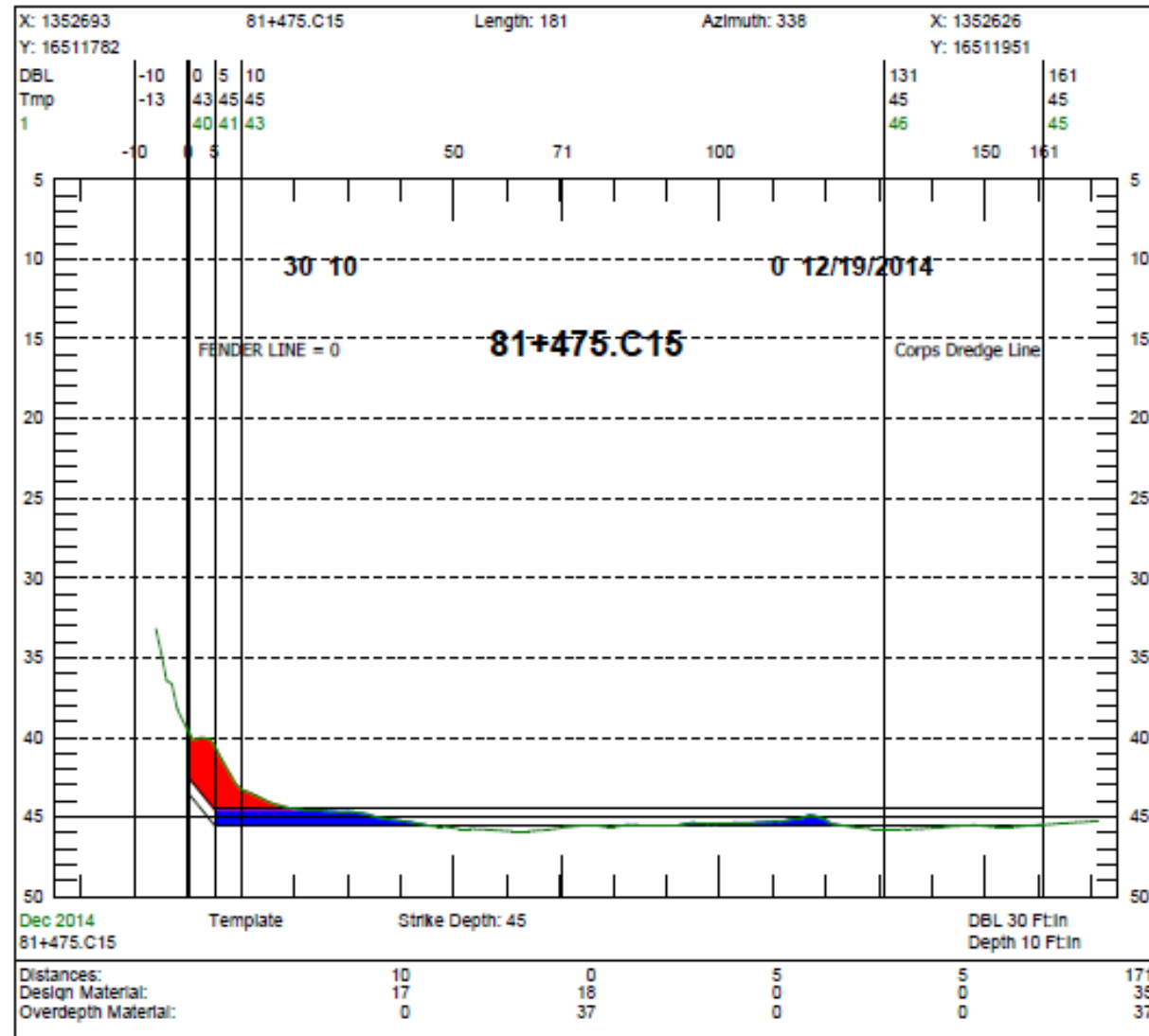
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



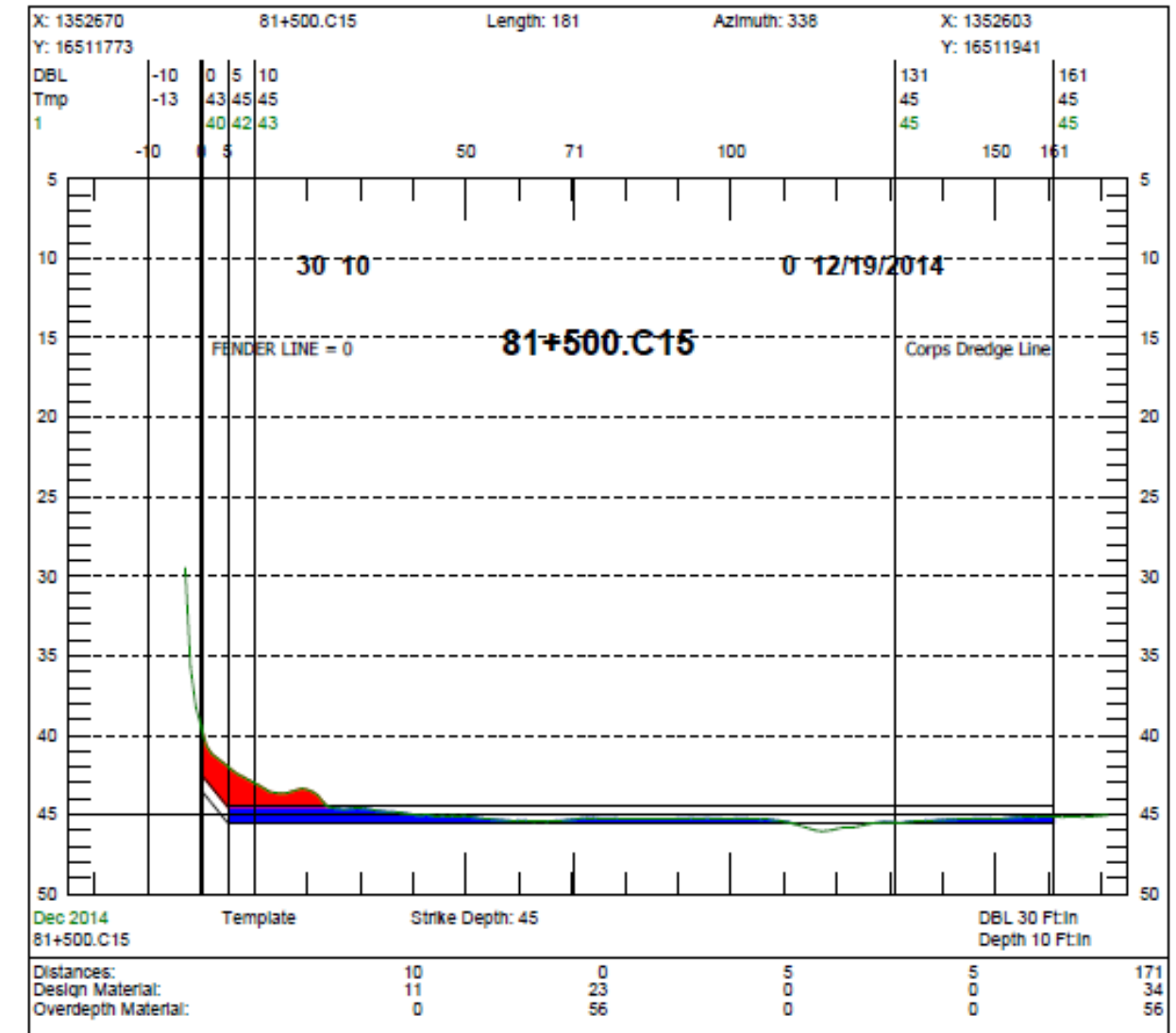
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Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



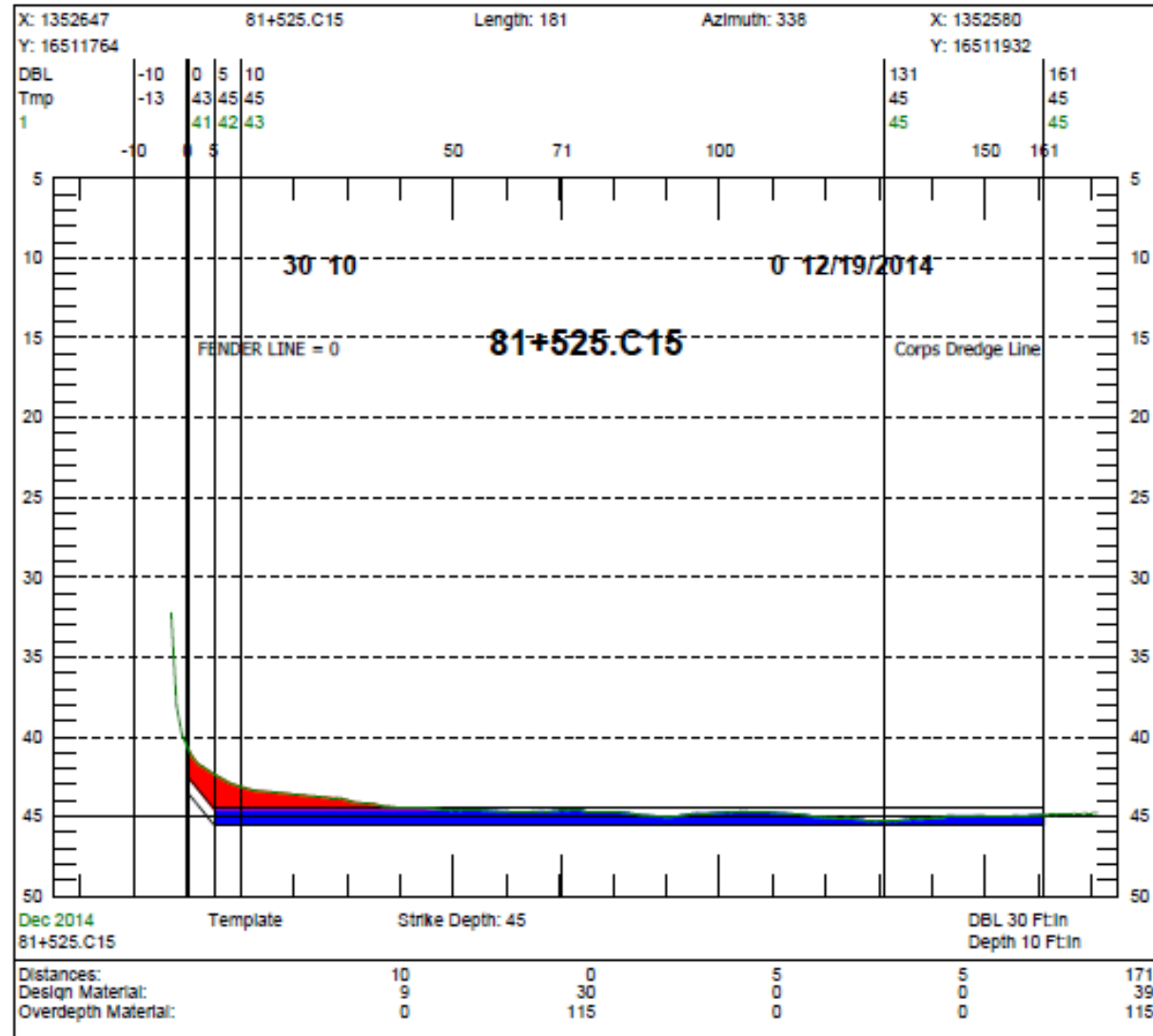
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



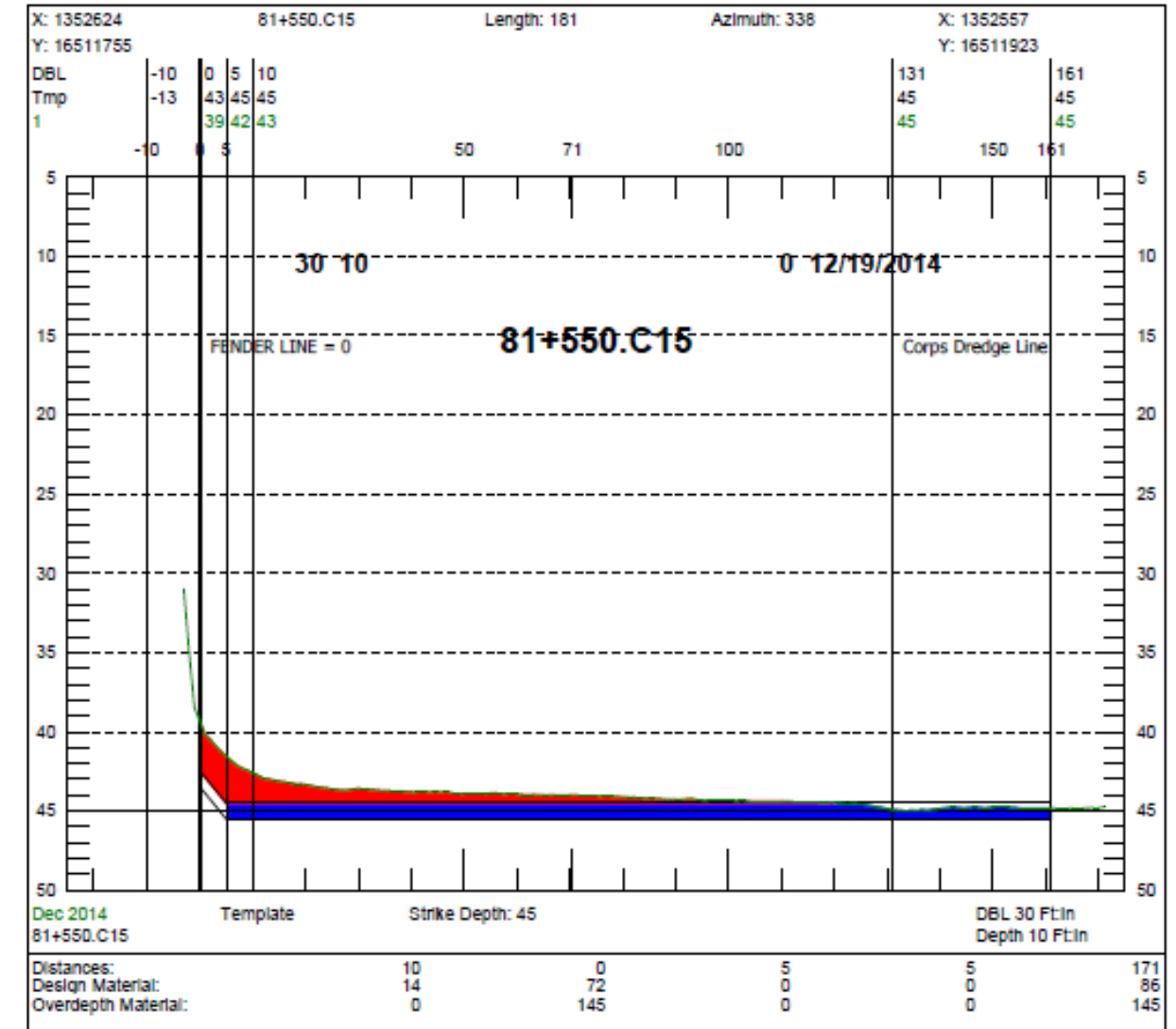
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



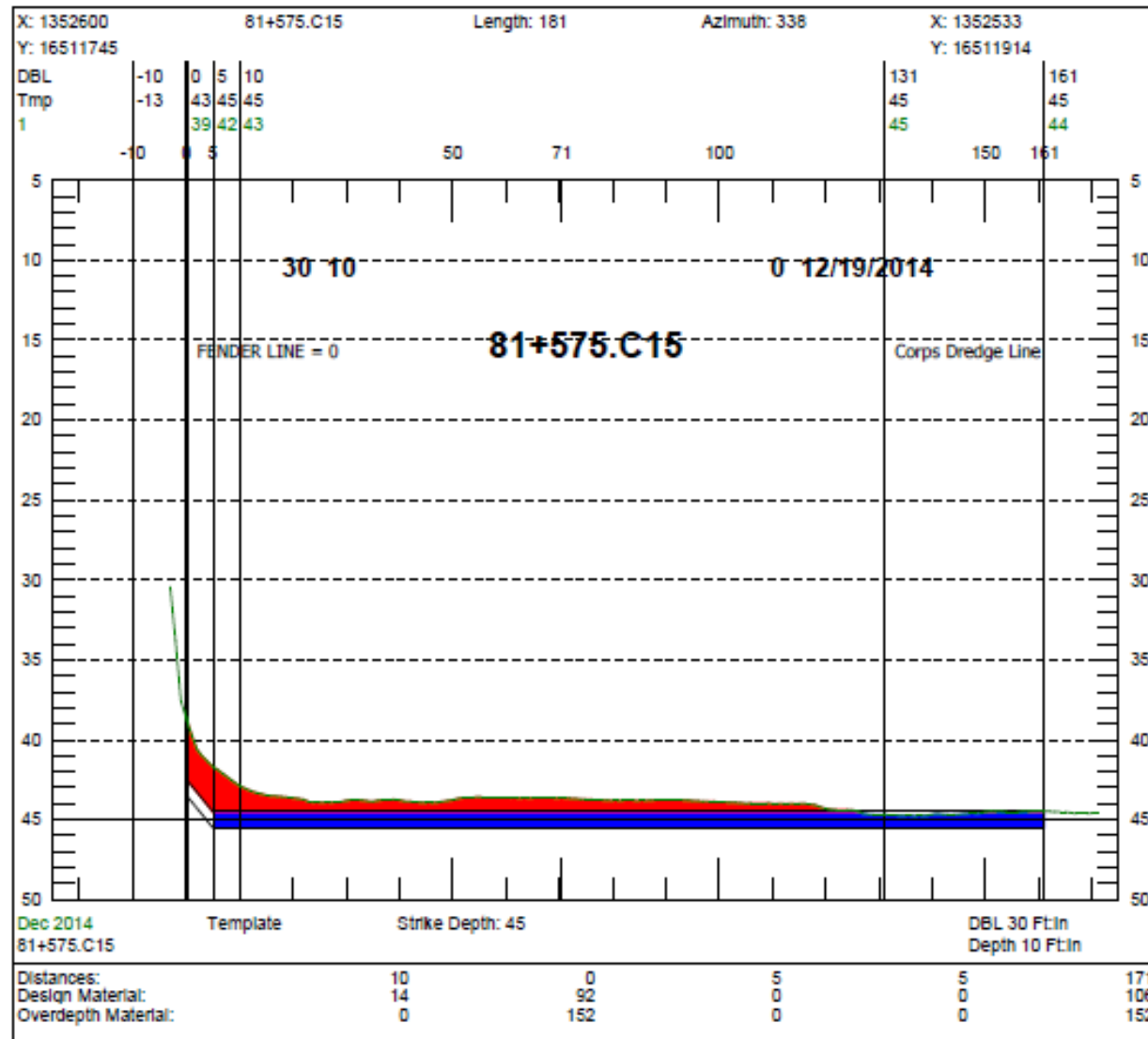
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Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



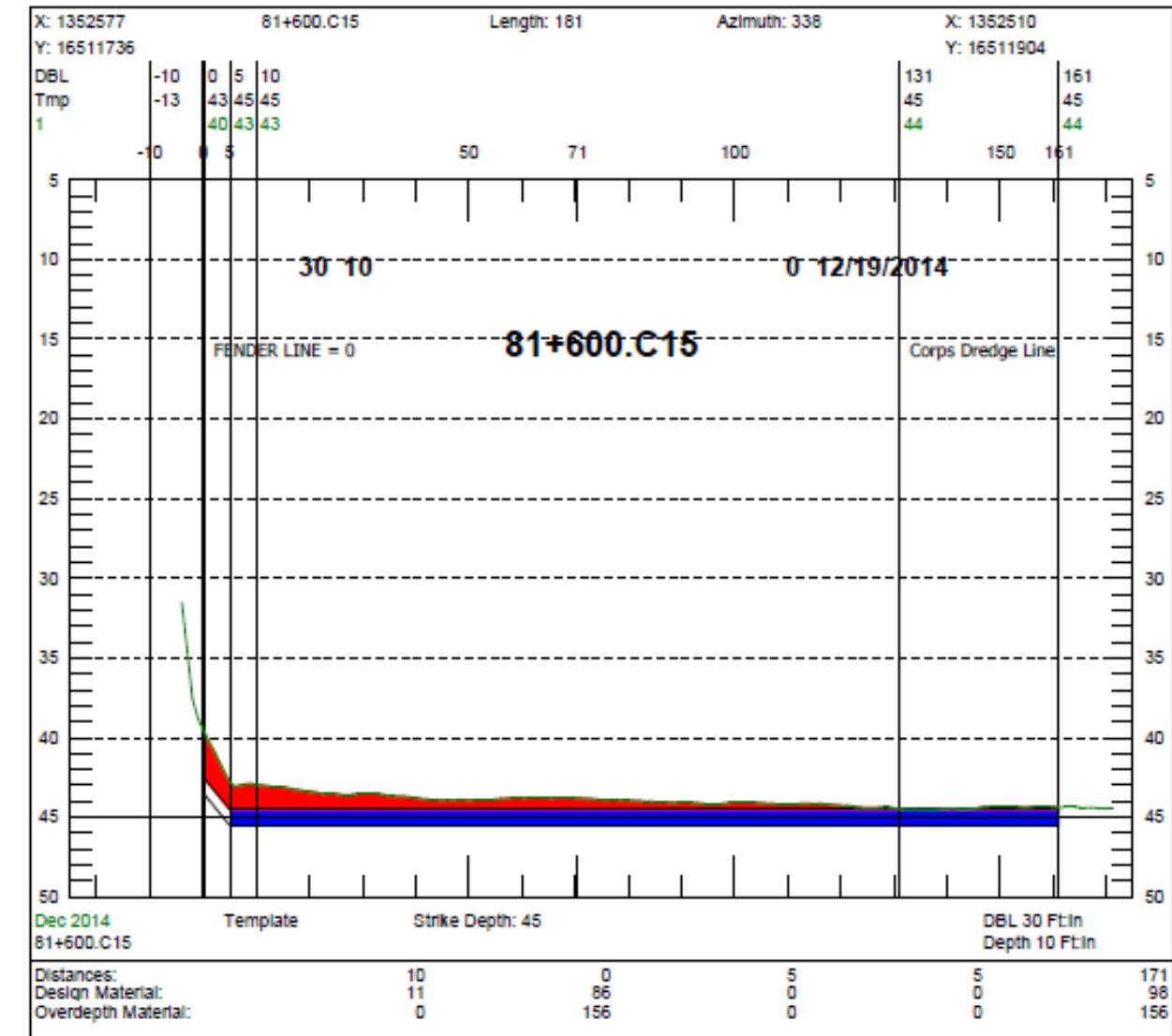
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



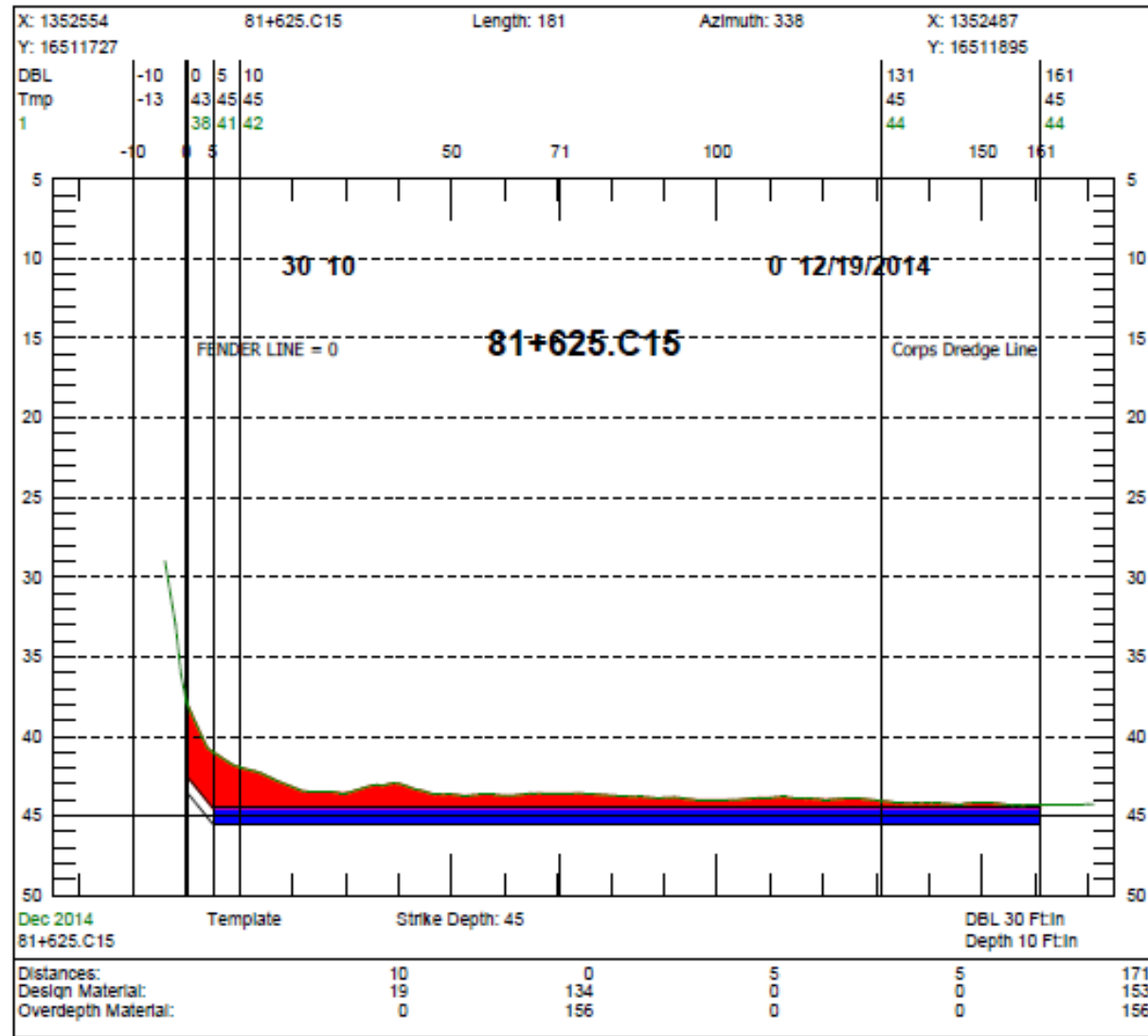
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



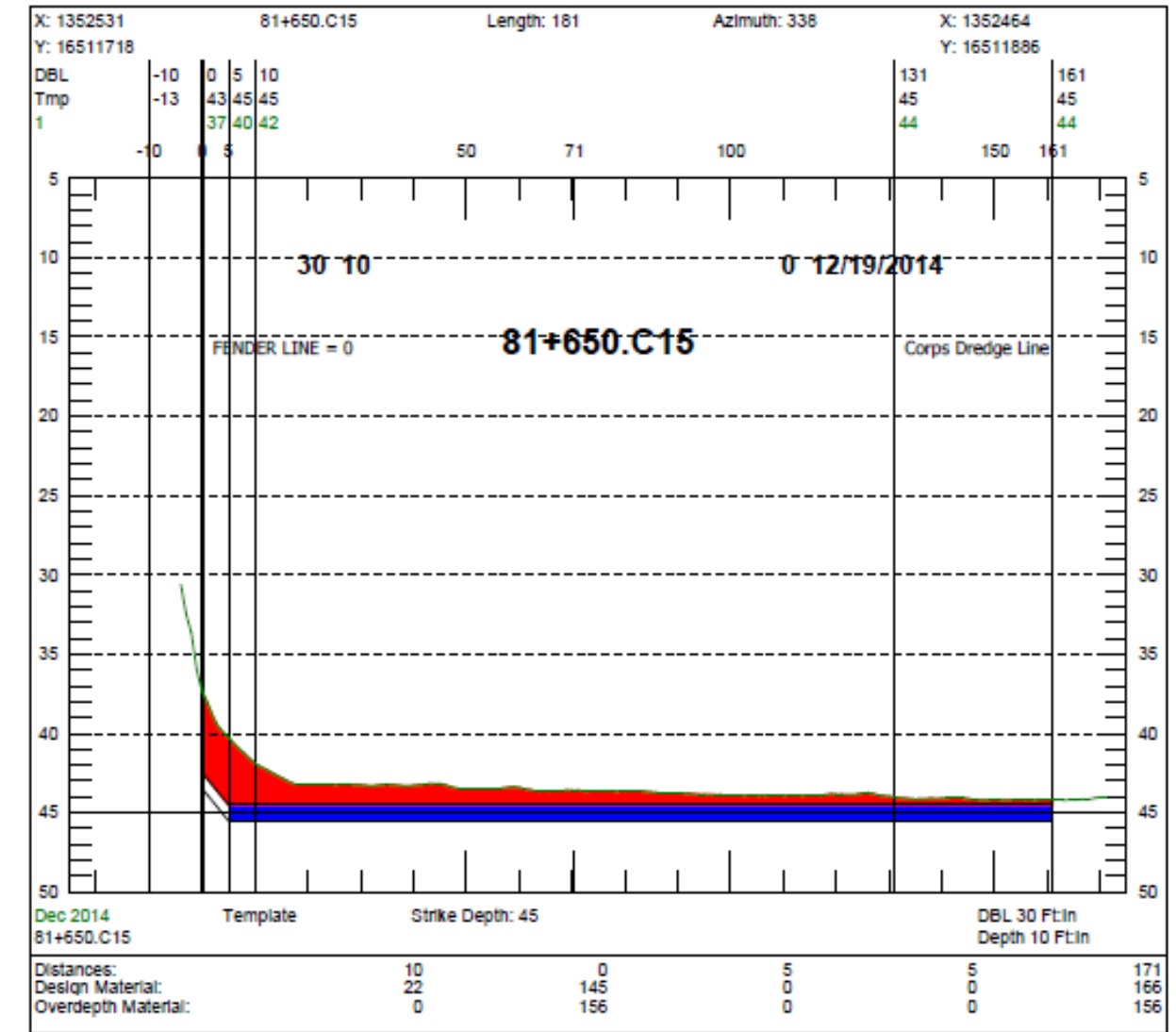
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Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



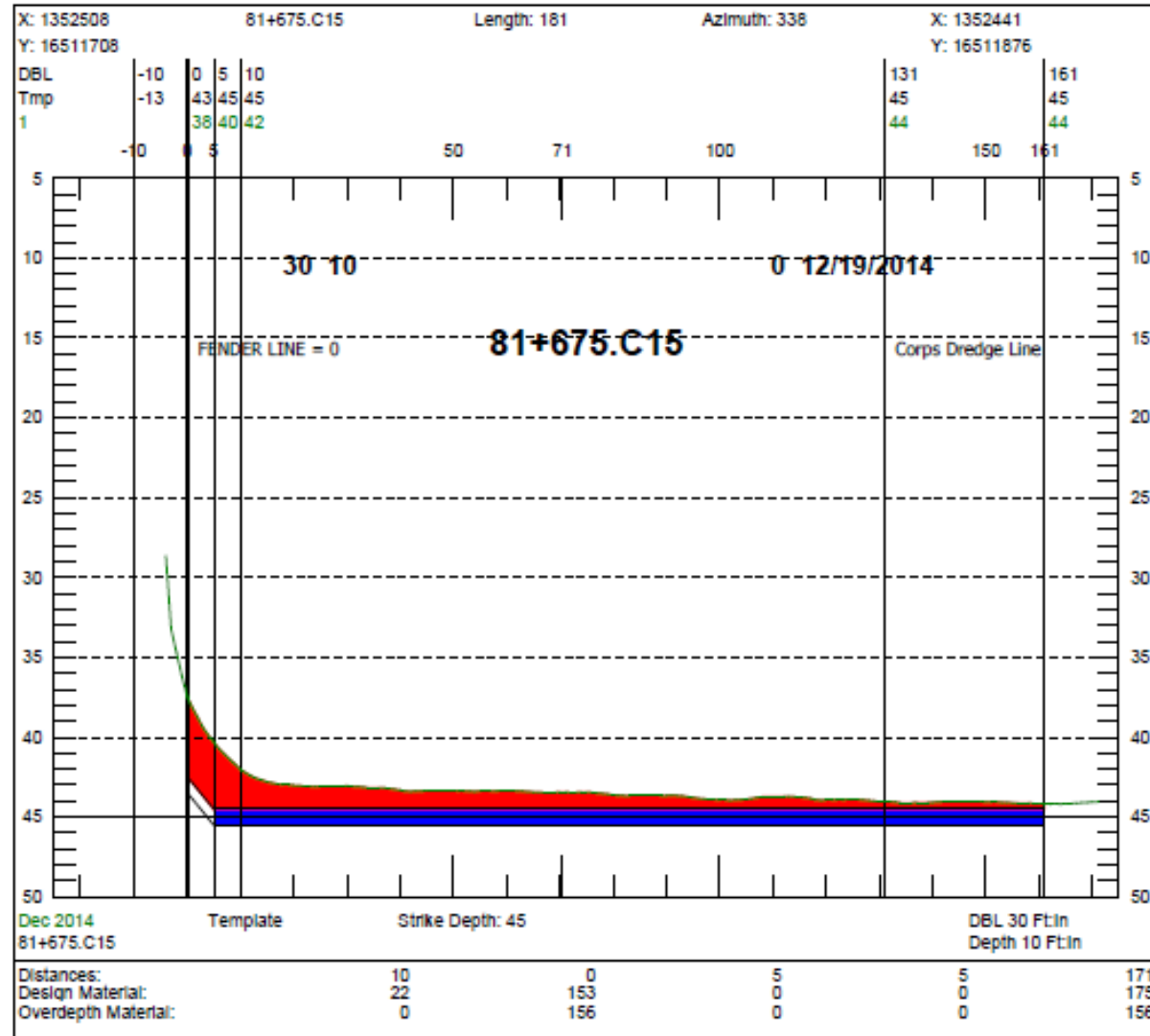
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Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



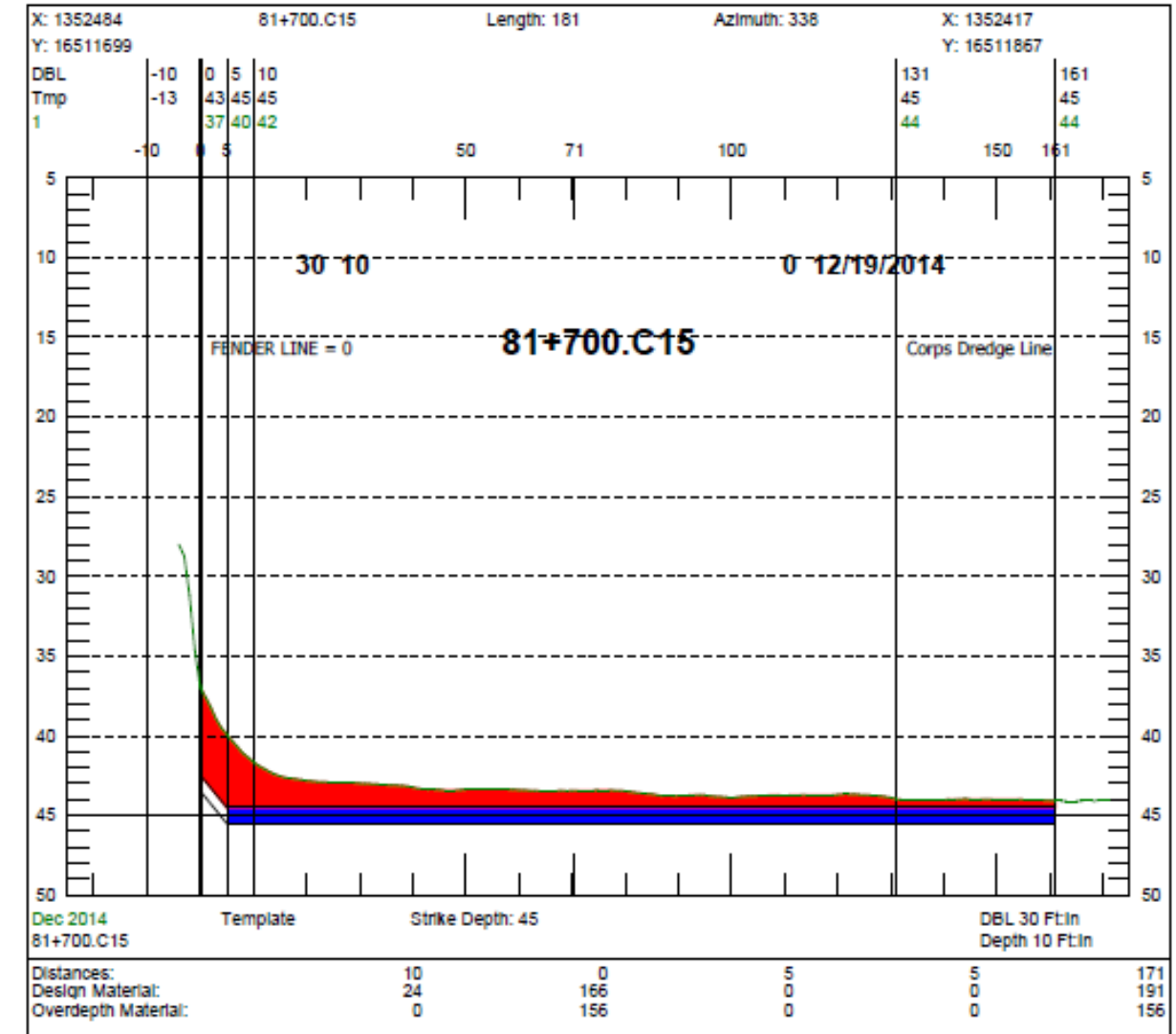
Sheet 15 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



Sheet 16 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

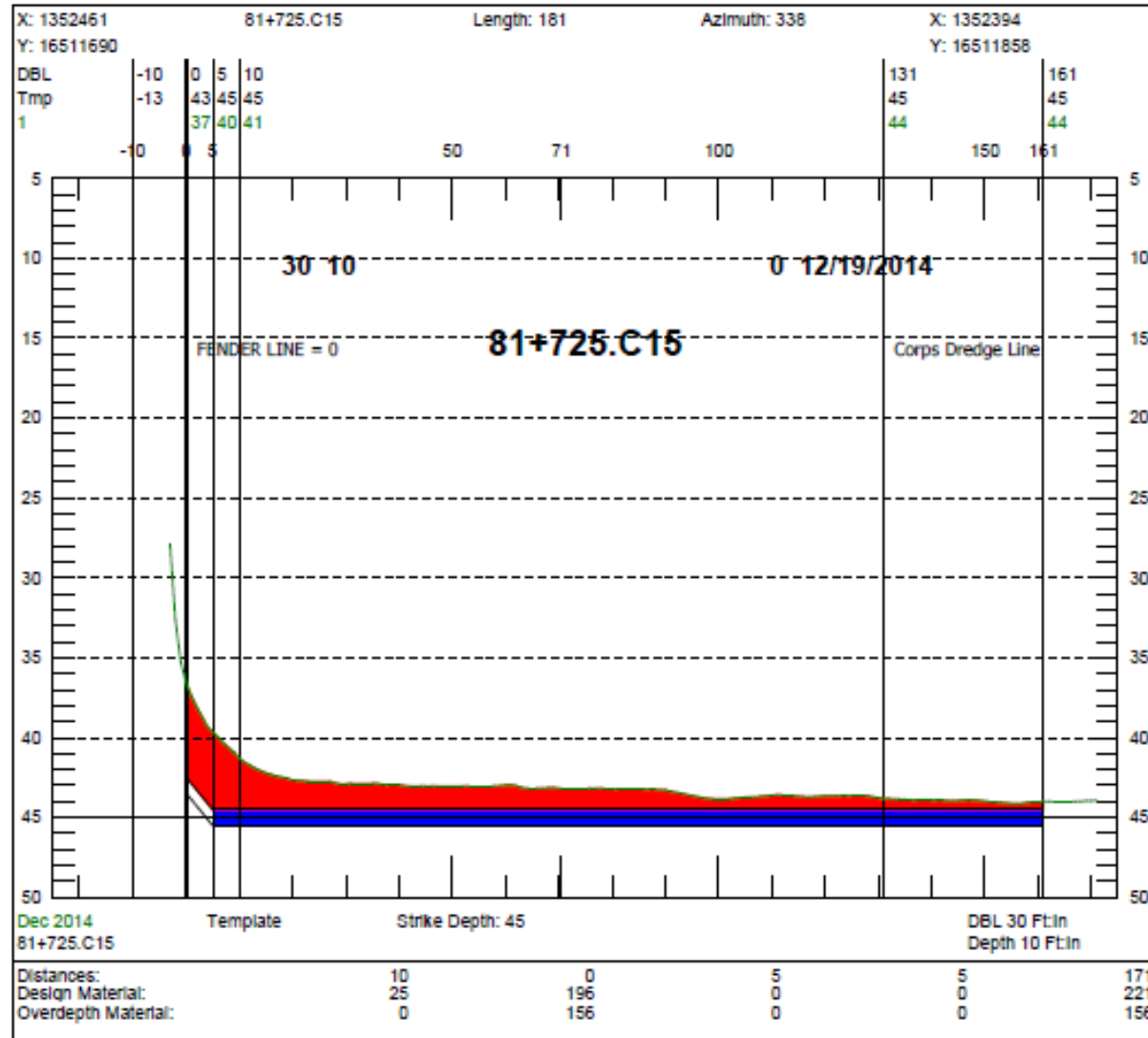


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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

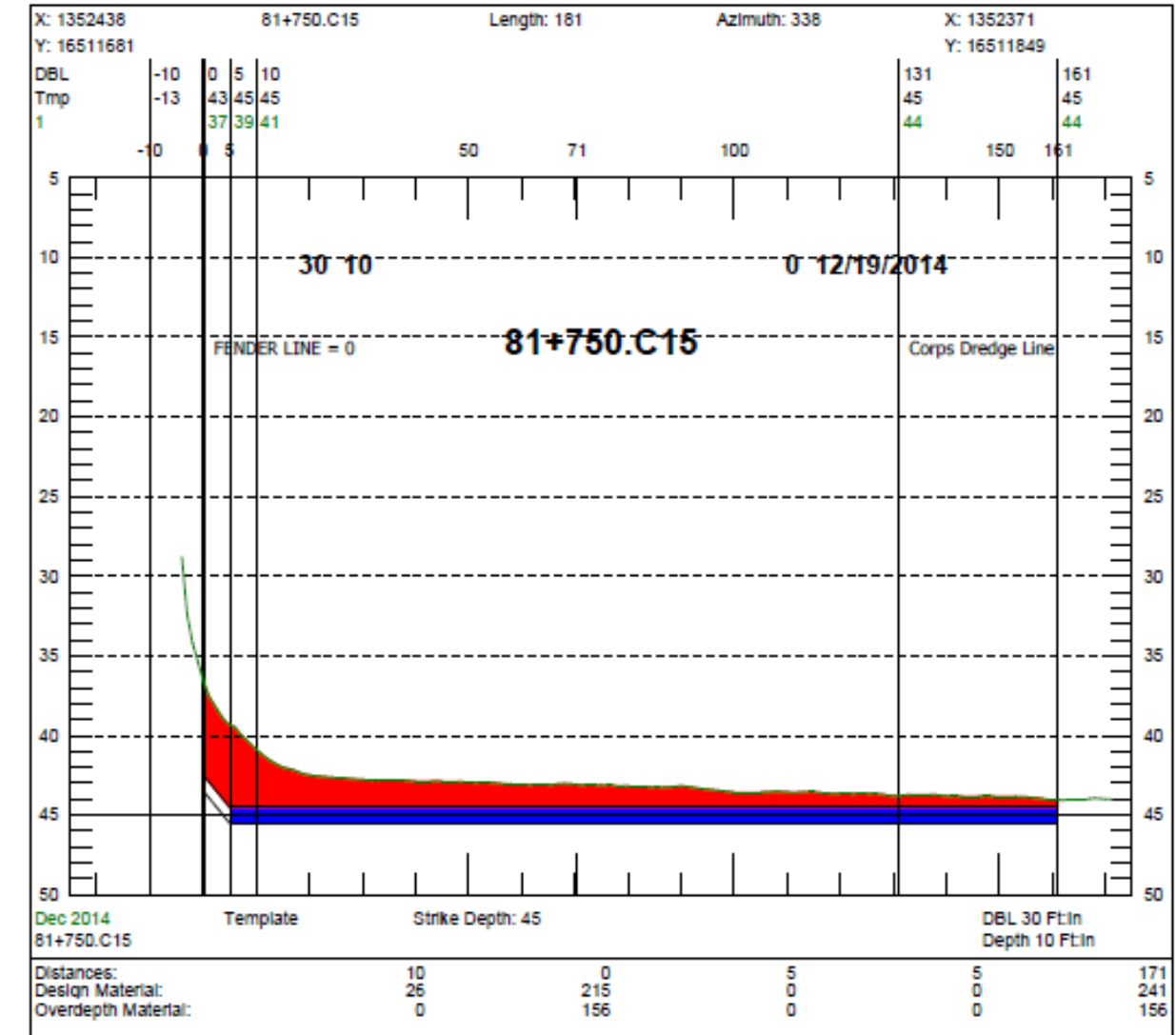


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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

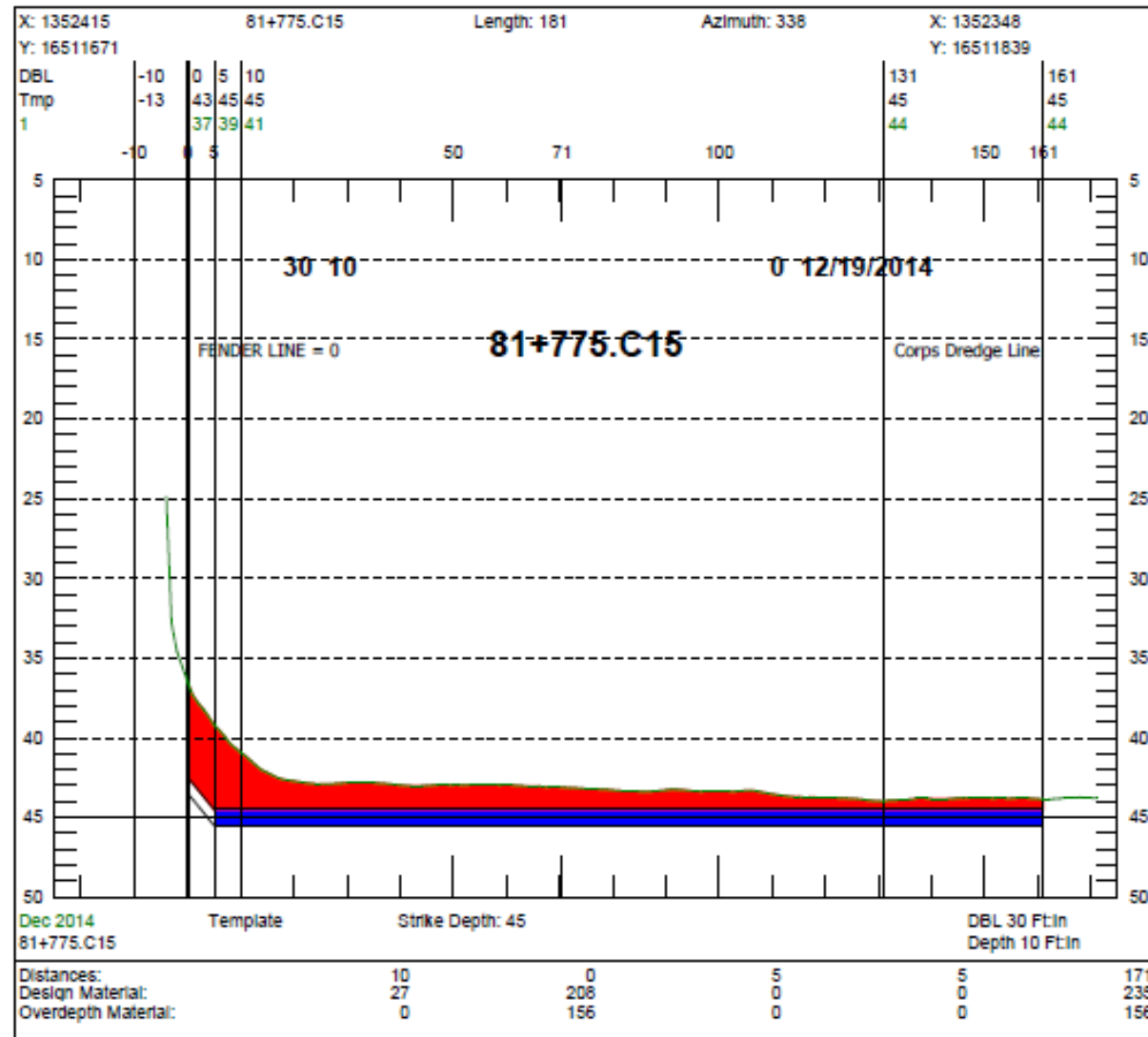




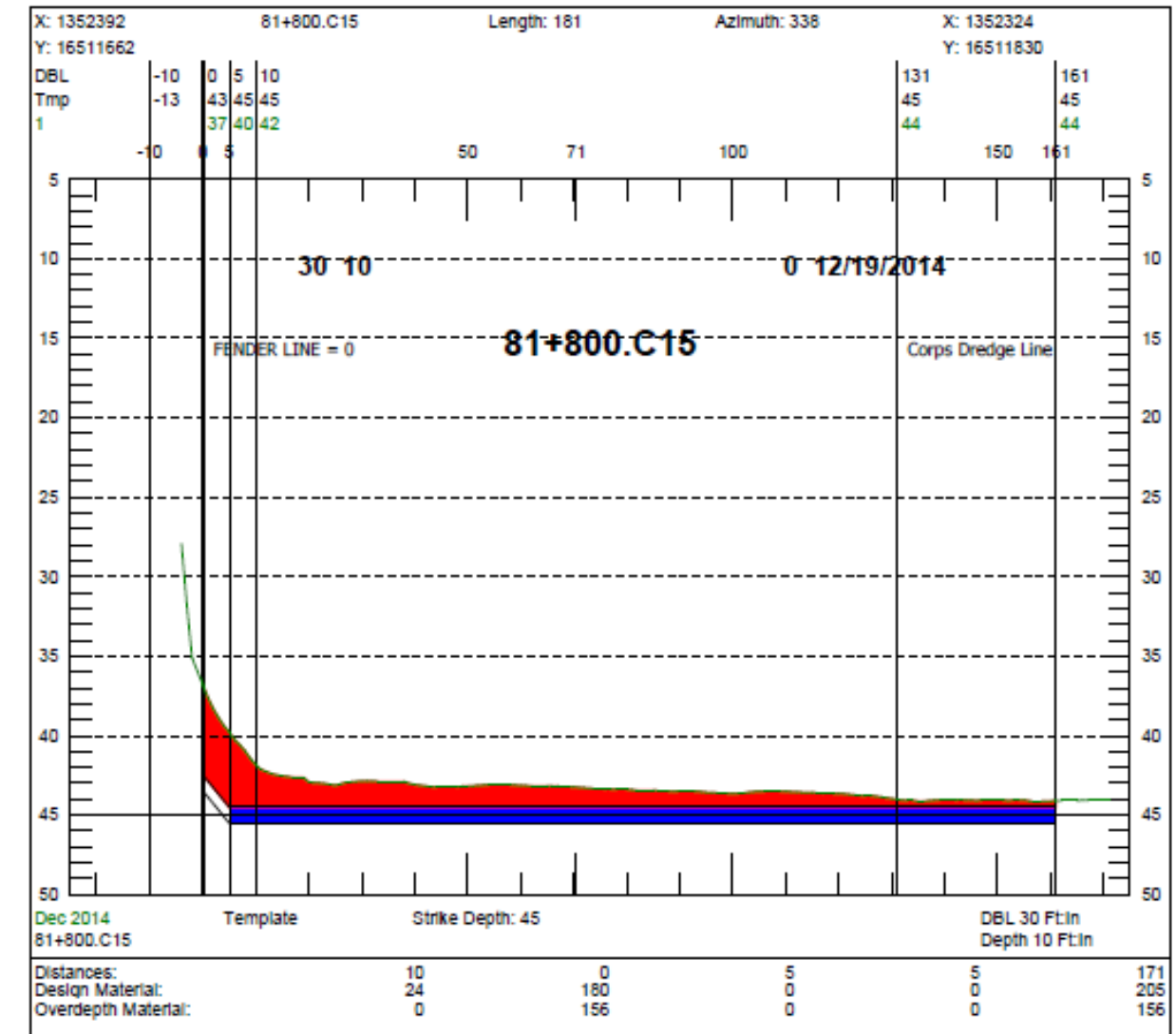
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



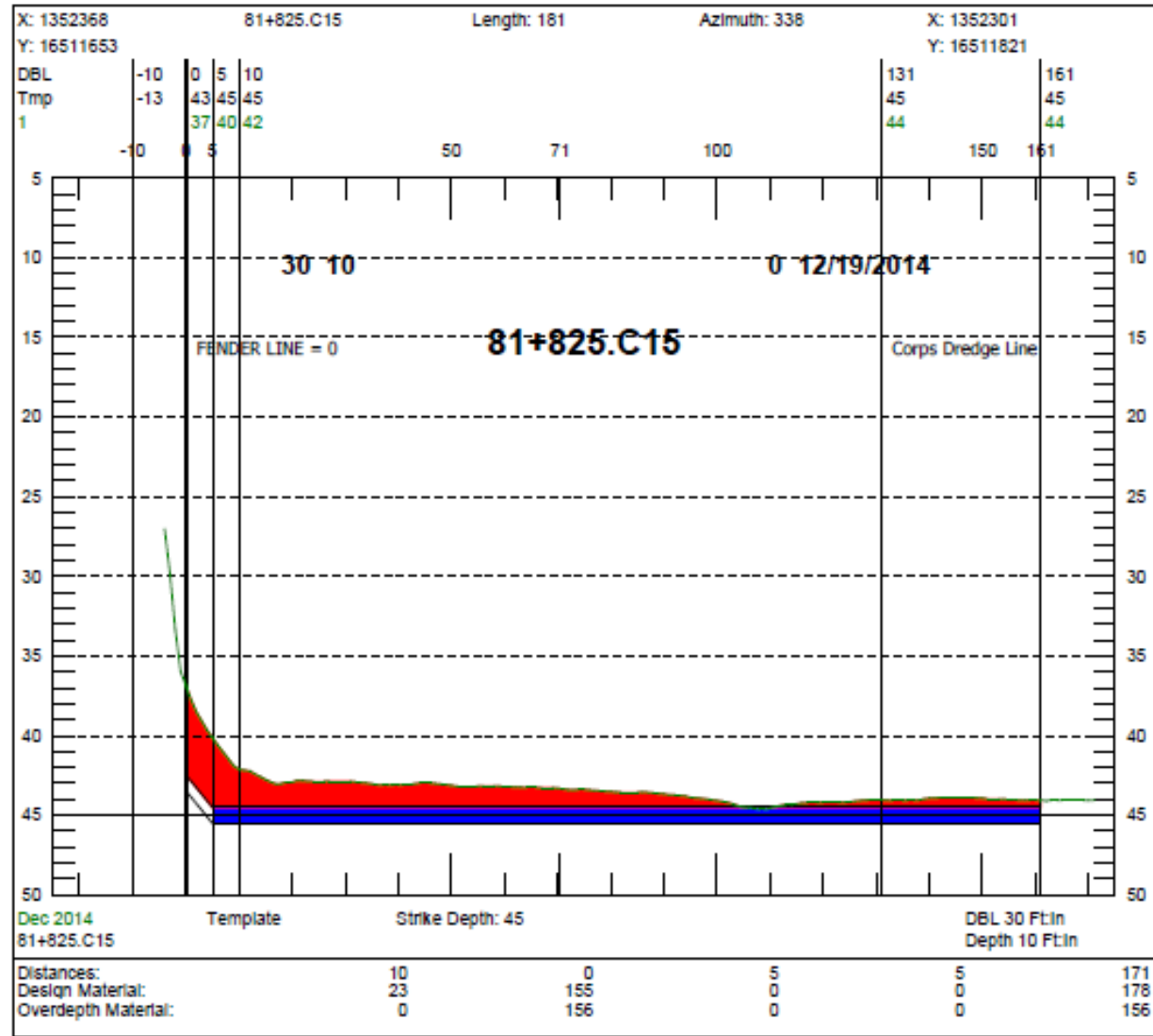
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



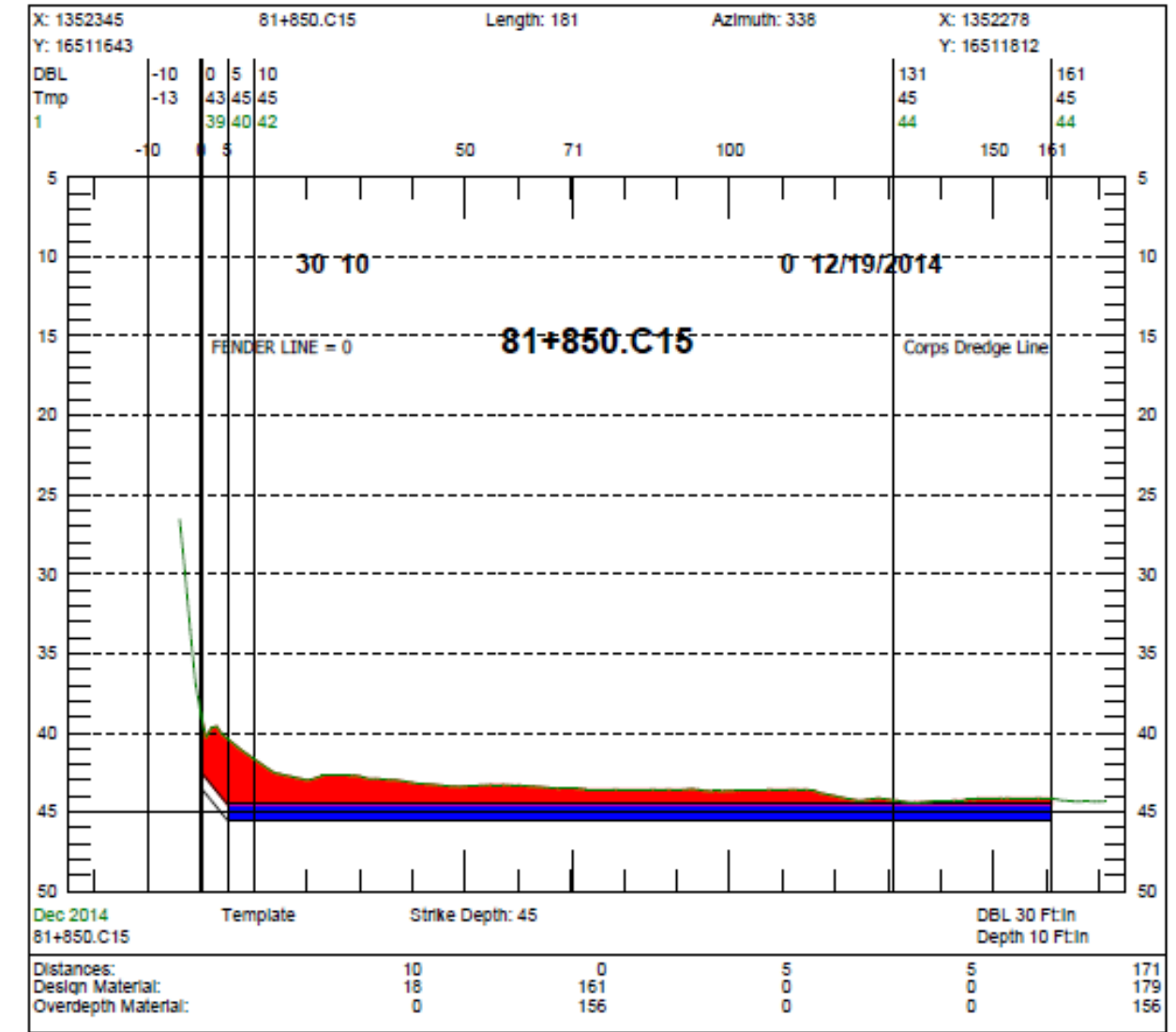
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



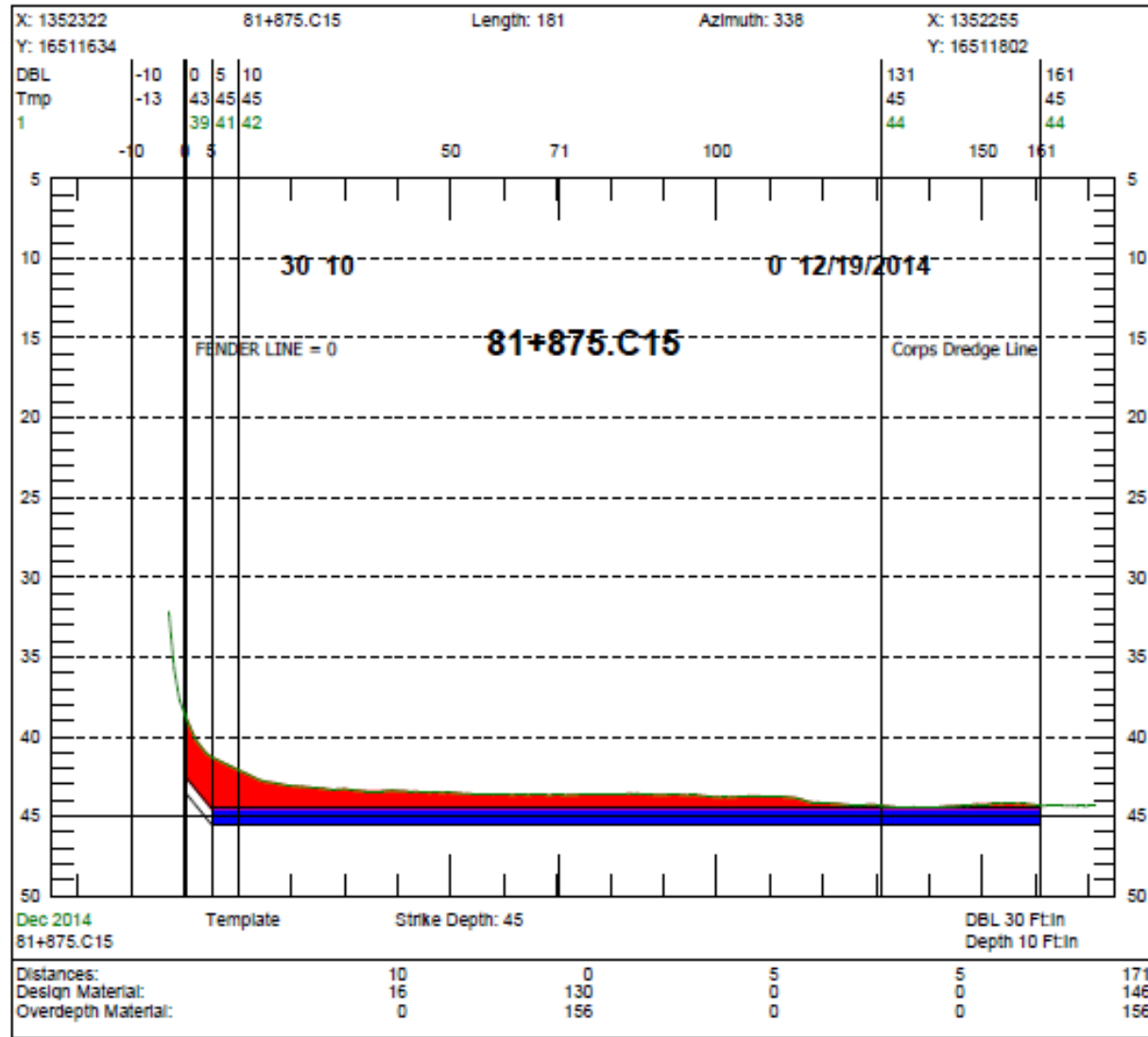
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



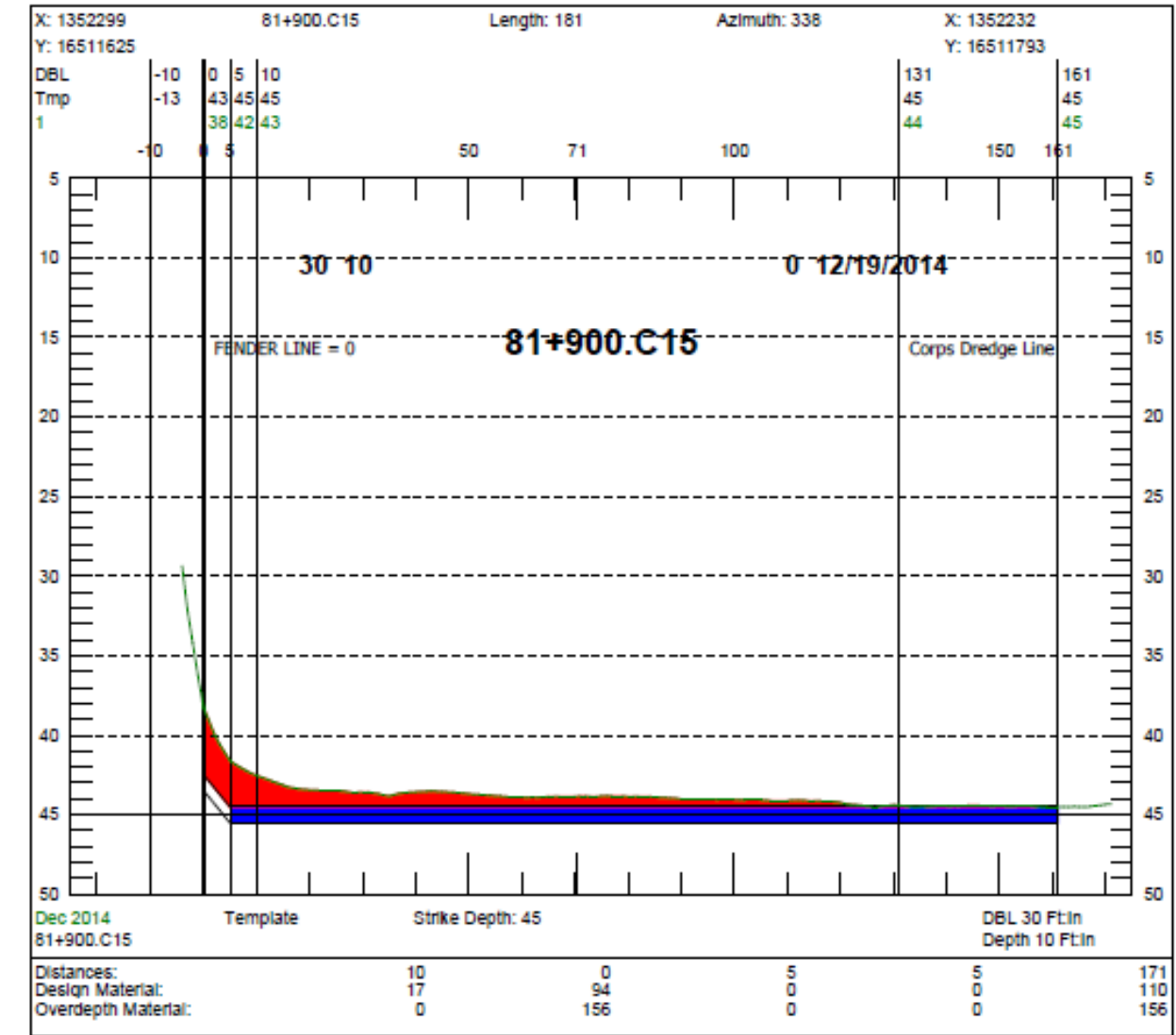
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



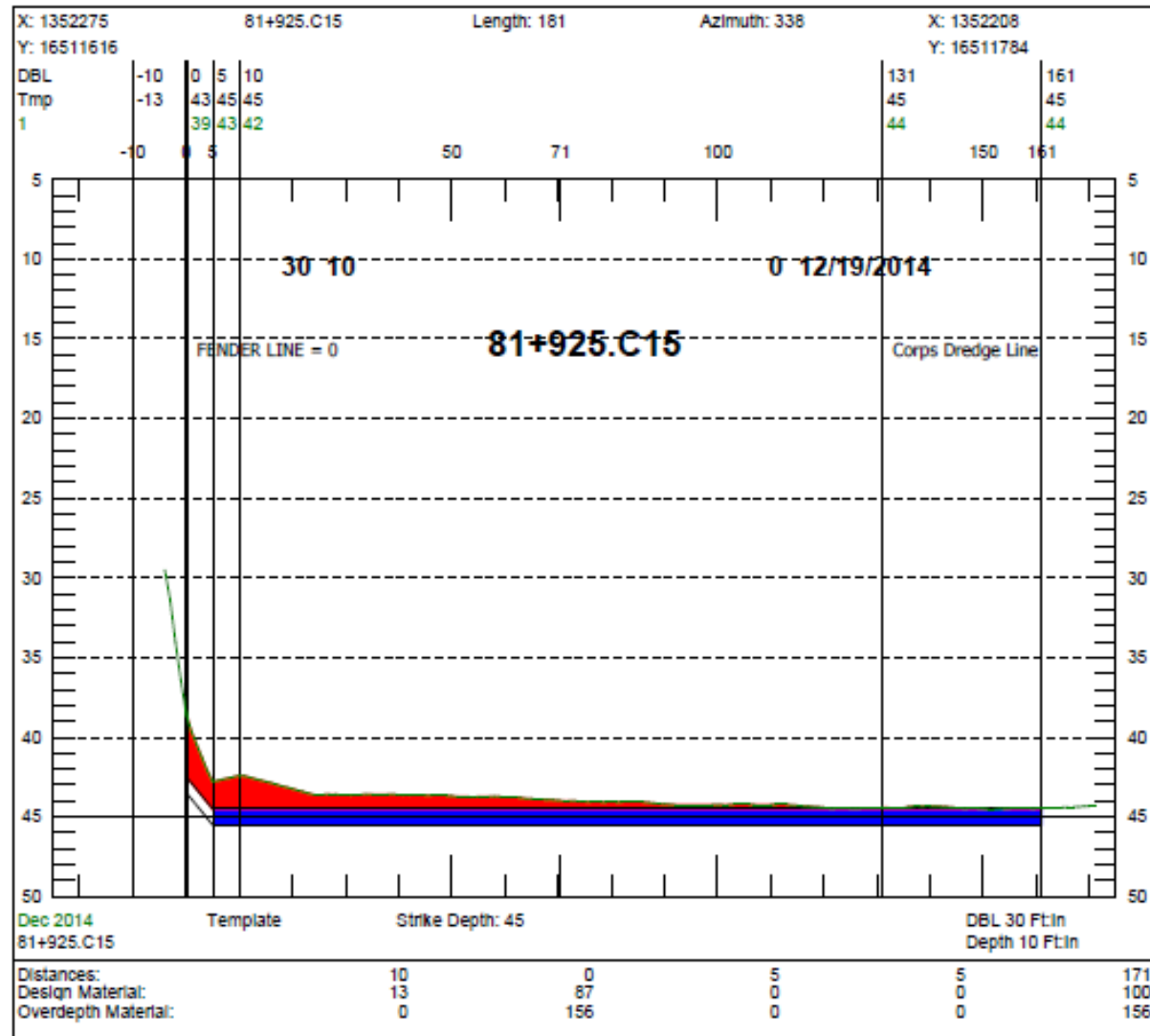
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



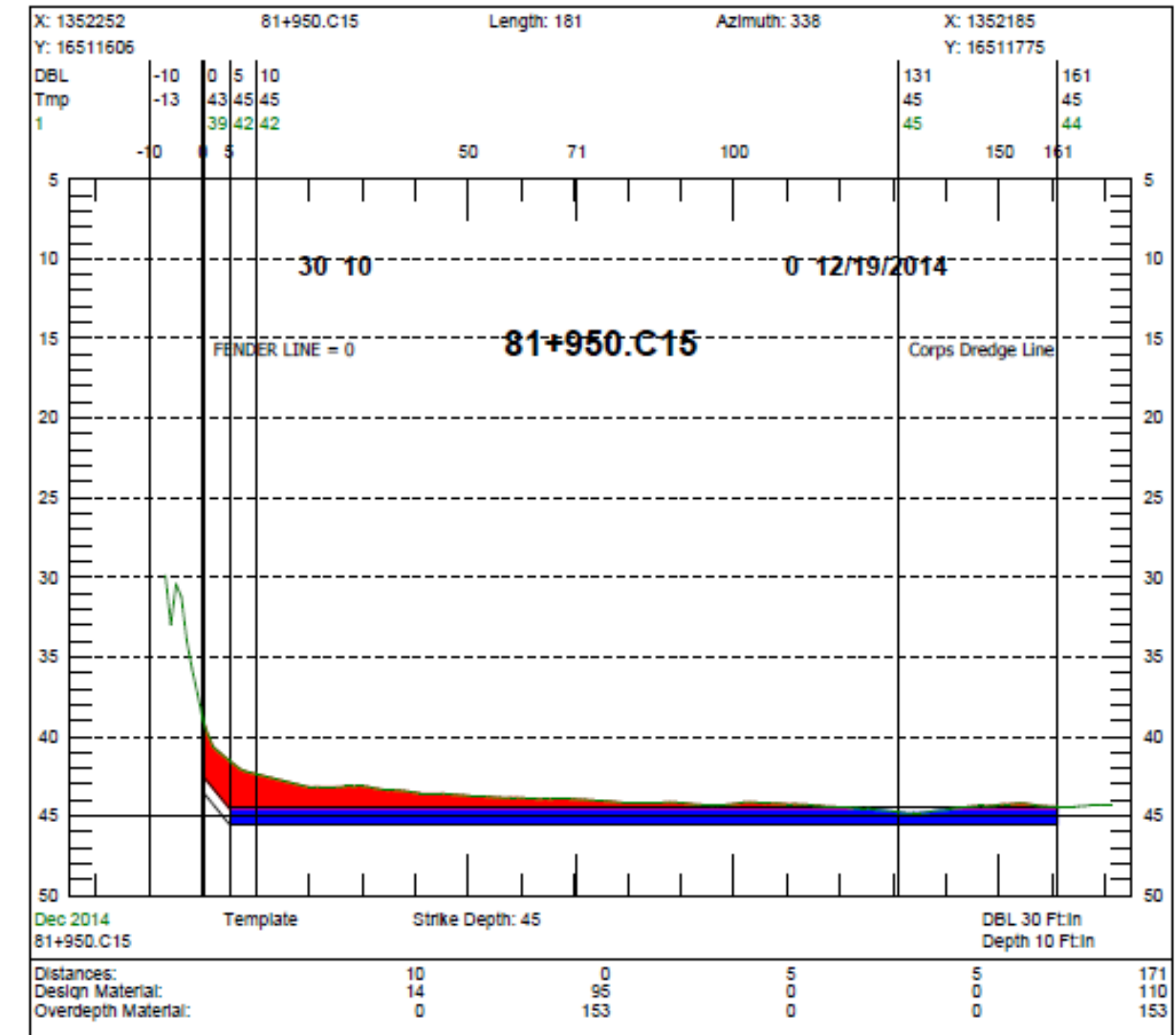
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



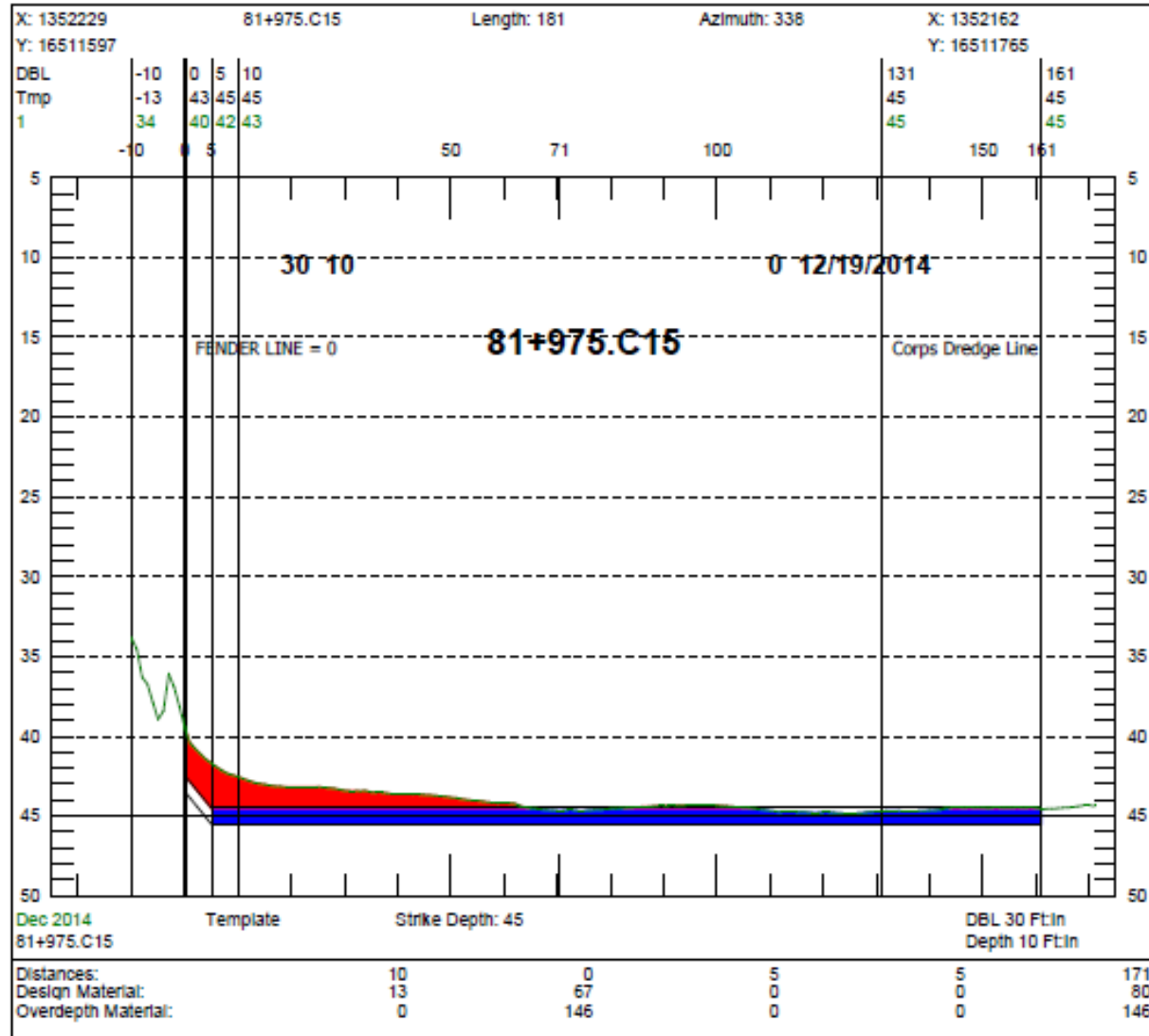
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



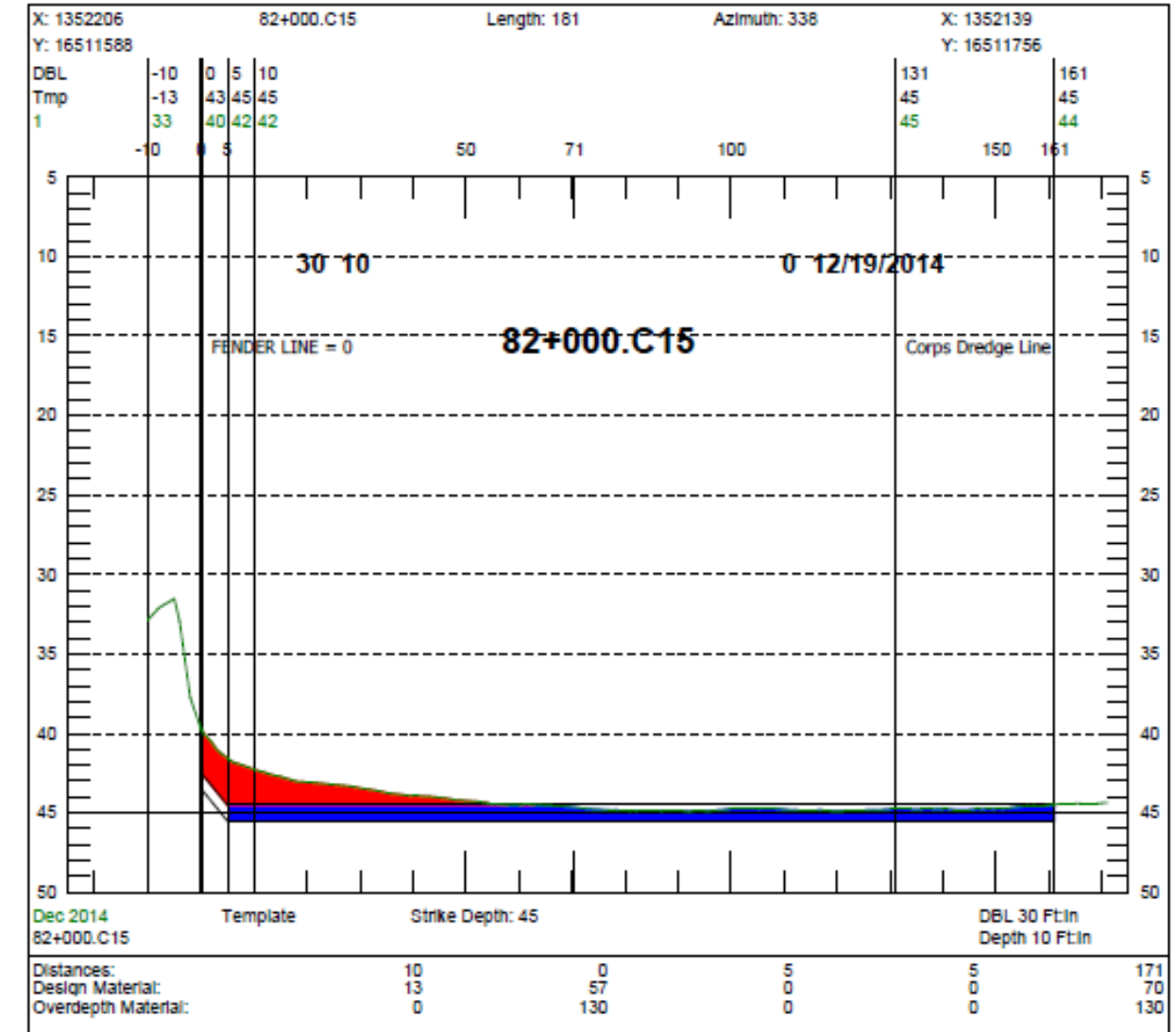
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



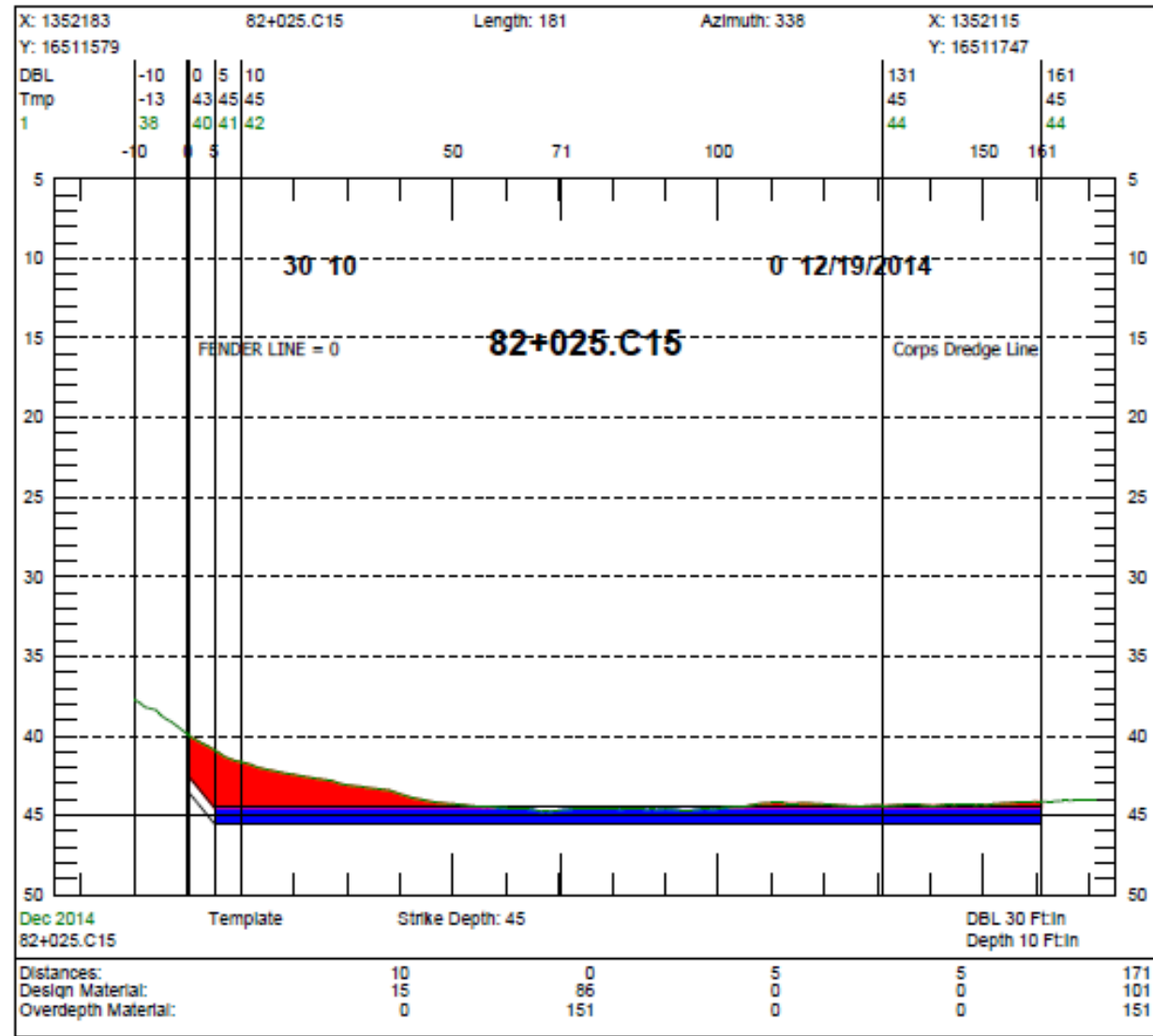
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



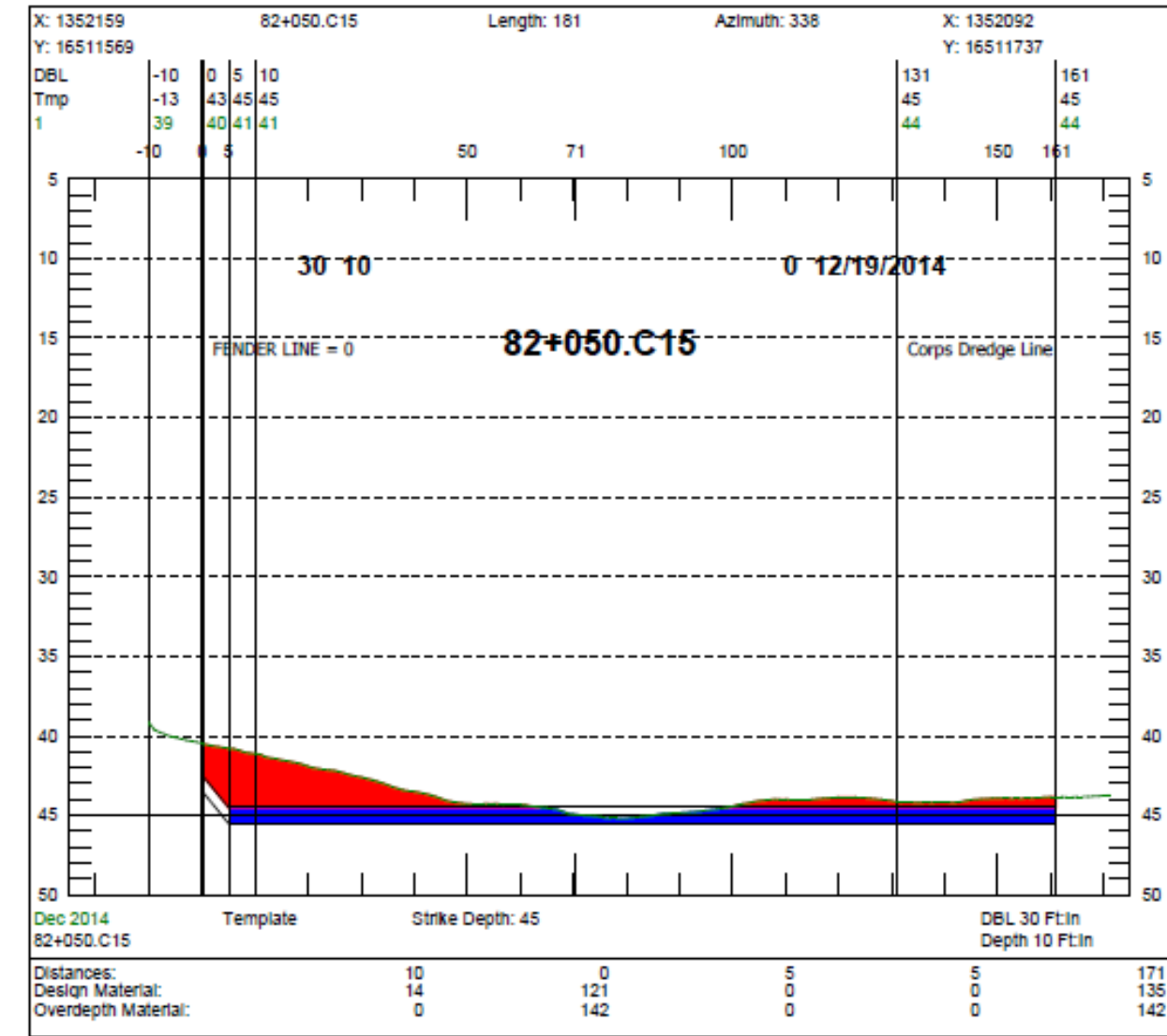
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



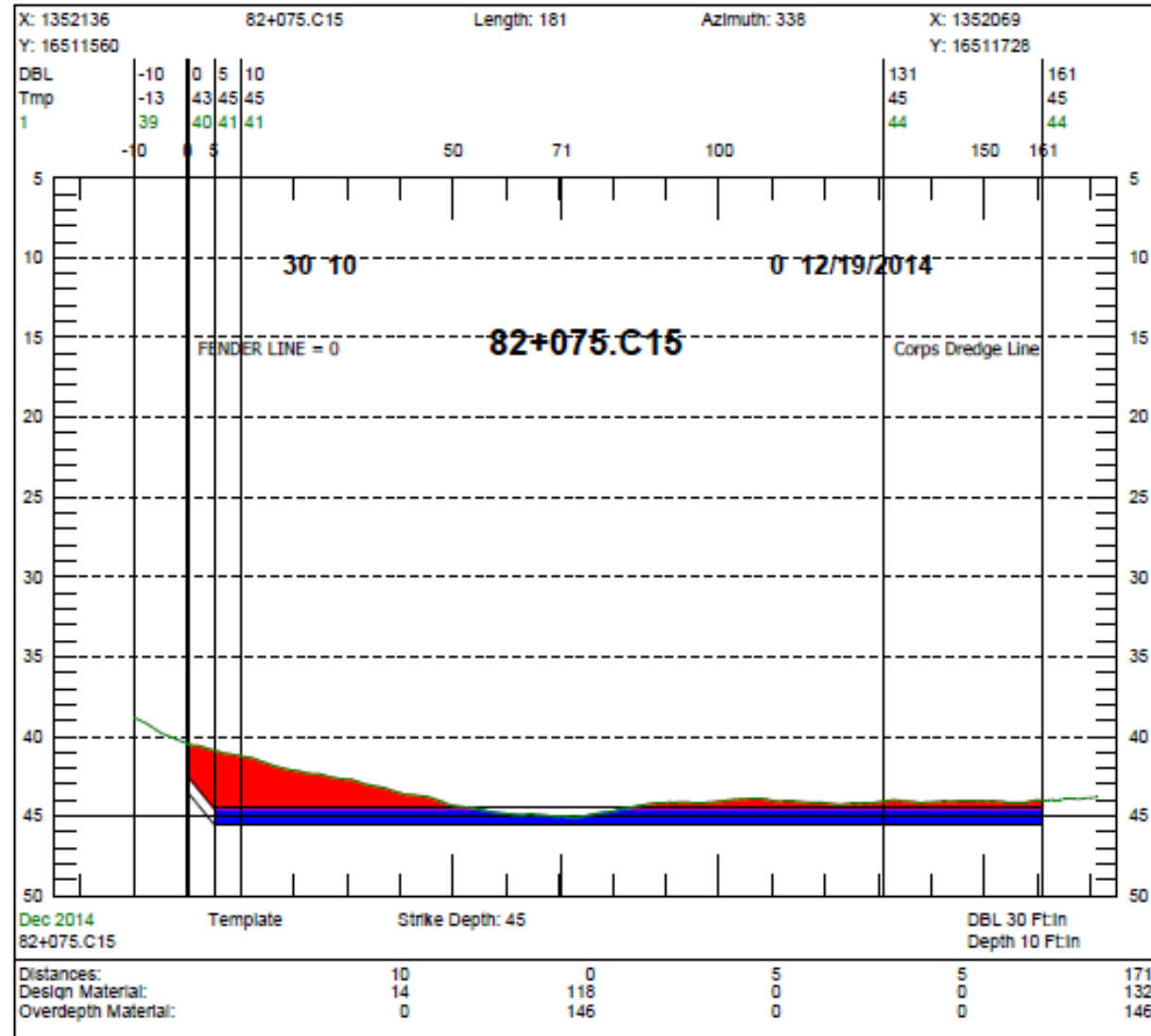
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



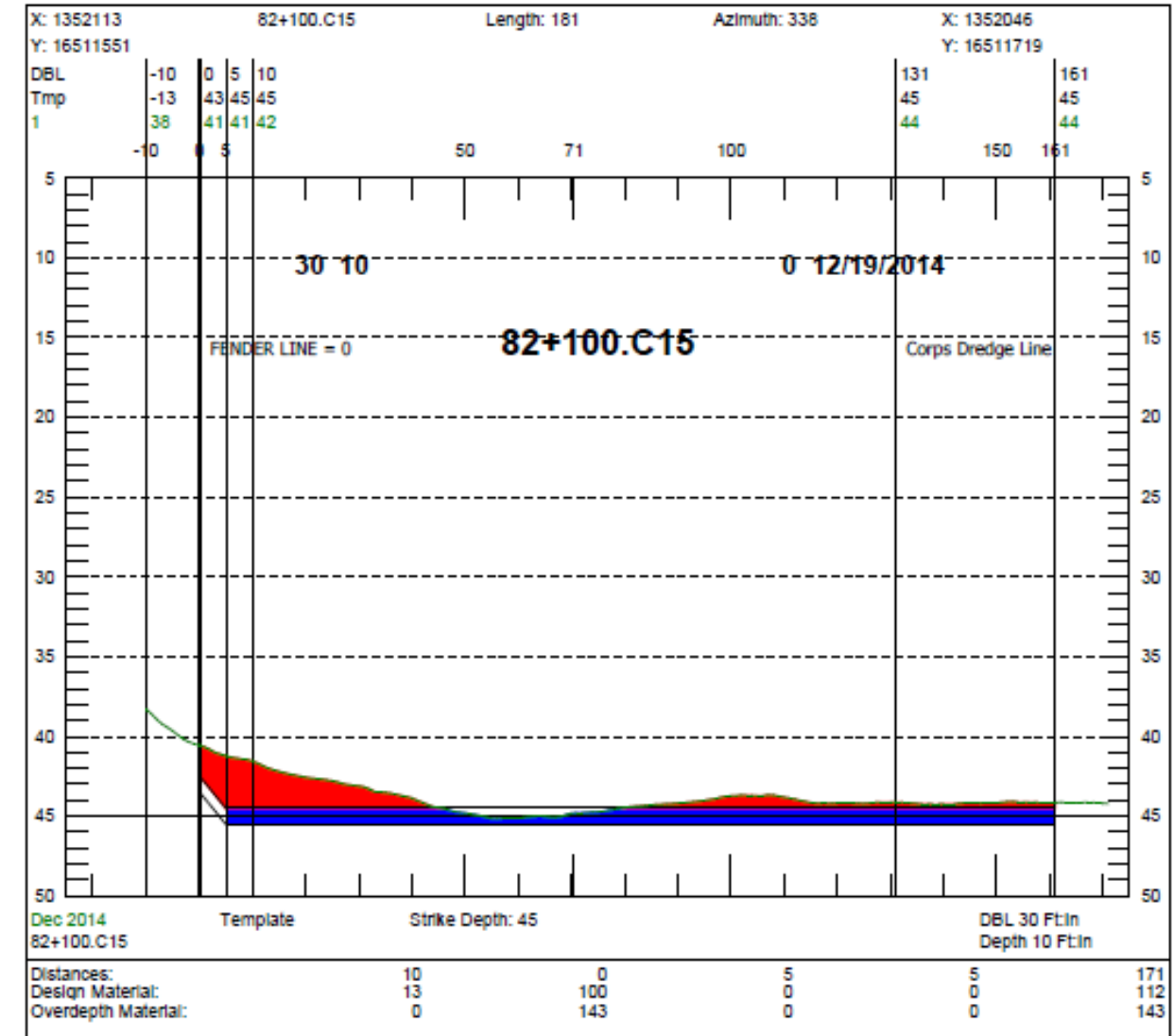
Sheet 31 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



Sheet 32 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

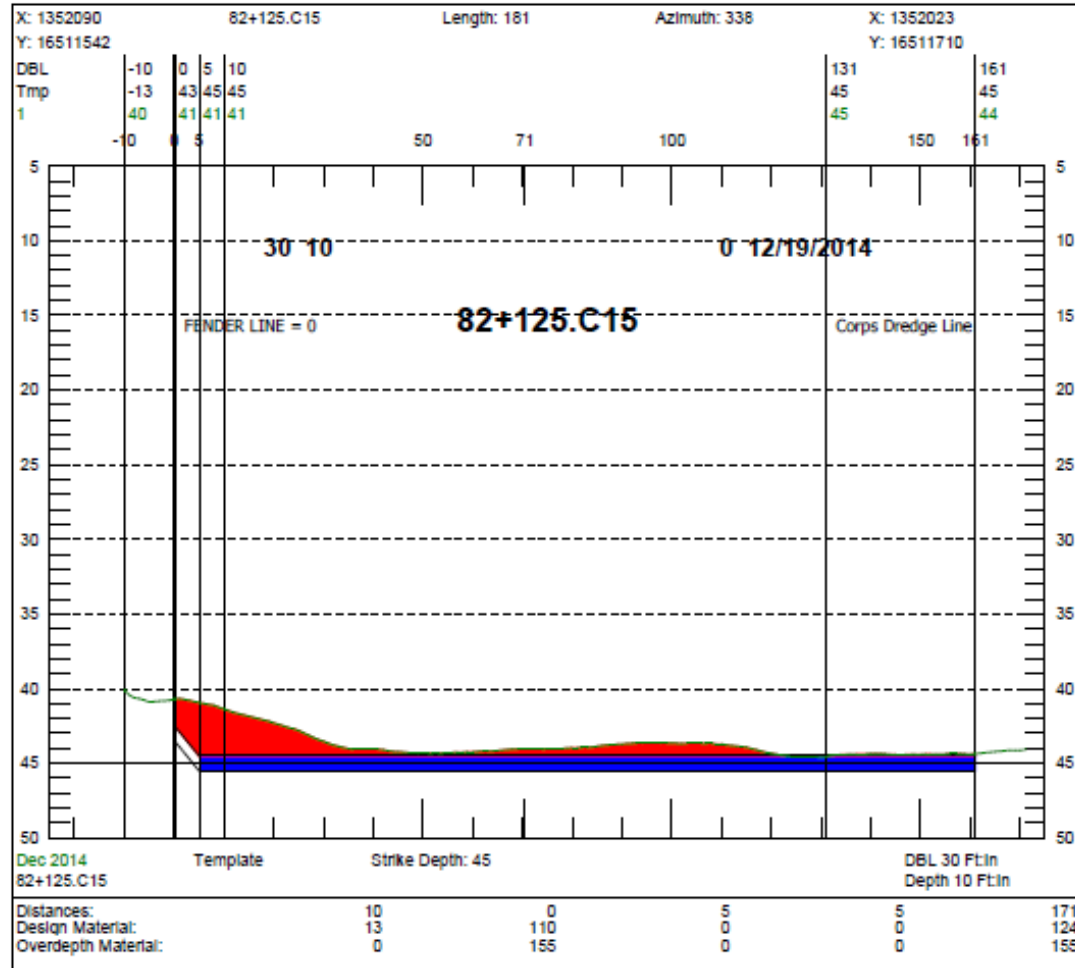


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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

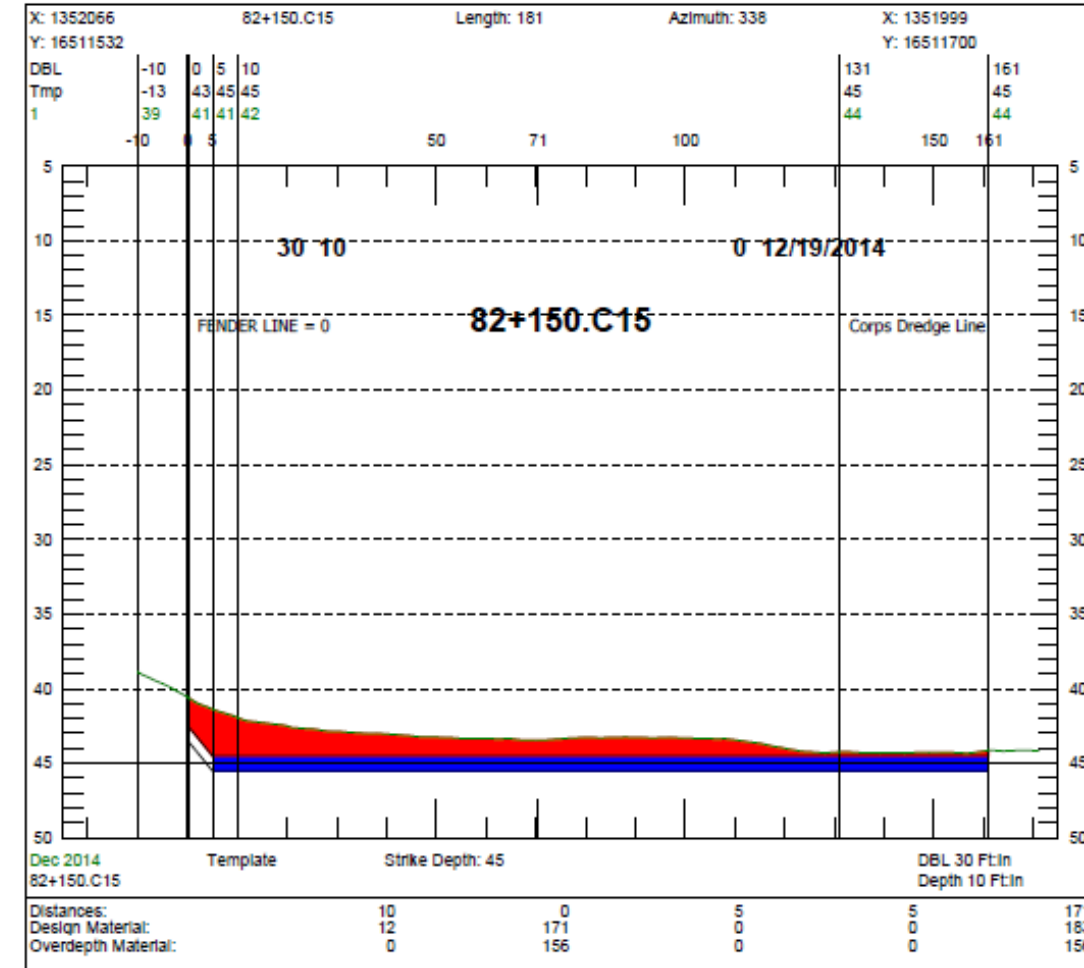


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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	





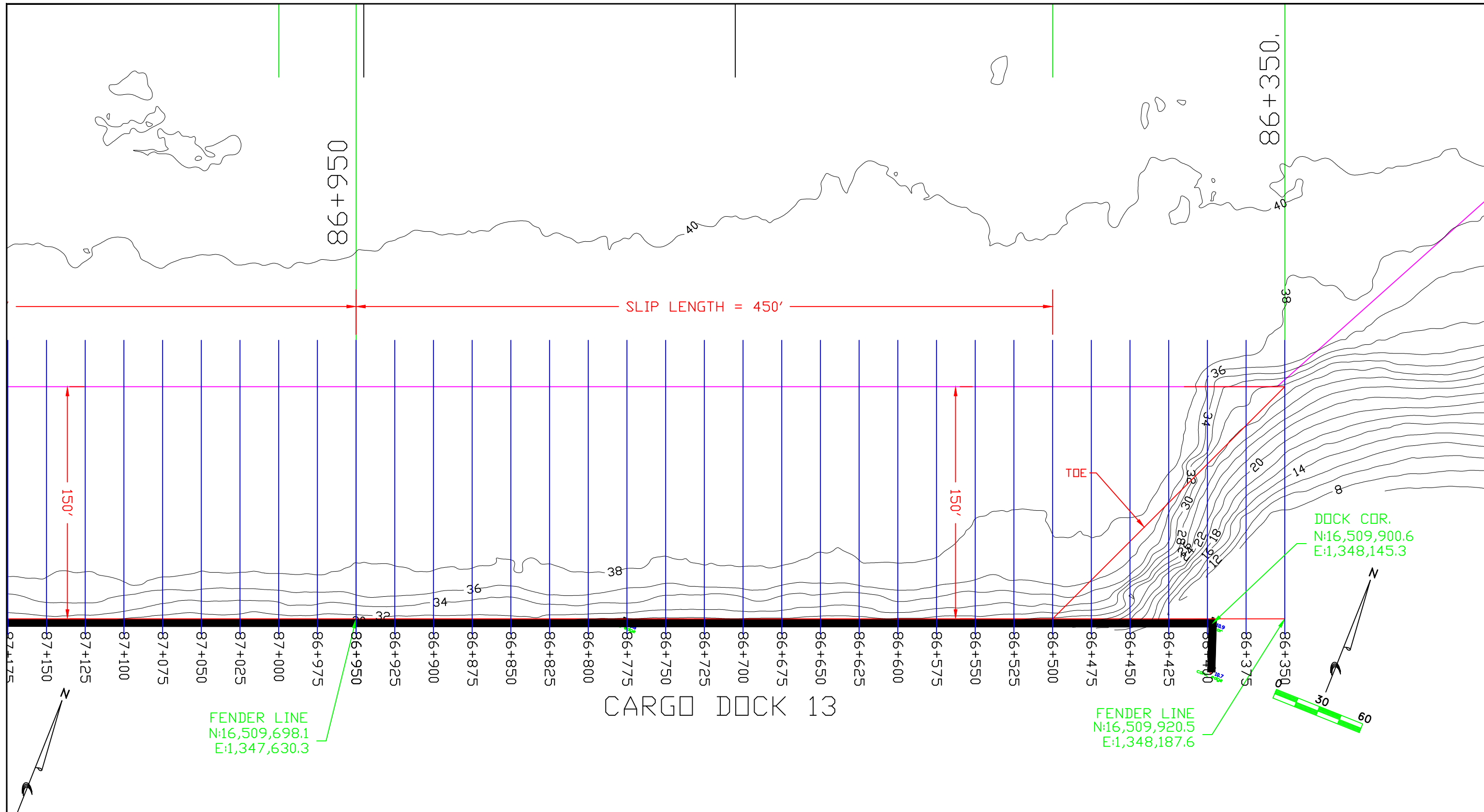
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Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



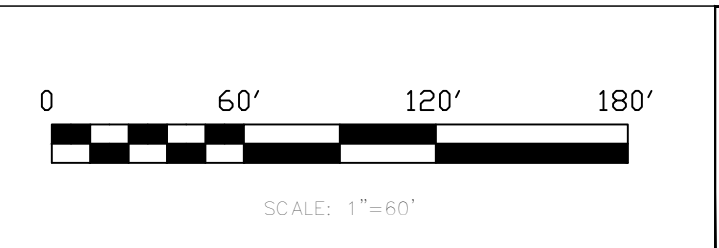
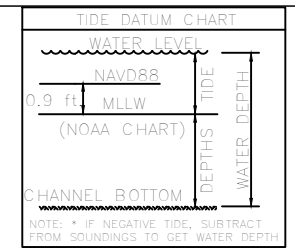
Sheet 36 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 15
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**CARGO DOCK 13**



**NOTES:**  
 1) DEPTHS/ELEVATIONS WERE MEASURED BY NAISMITH MARINE SERVICES ON DECEMBER 19, 2014. SEA FLOOR CONDITIONS ARE SUBJECT TO CHANGE.  
 2) HORIZONTAL DATUM: NAD27, TEXAS SOUTH ZONE, US FEET.  
 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
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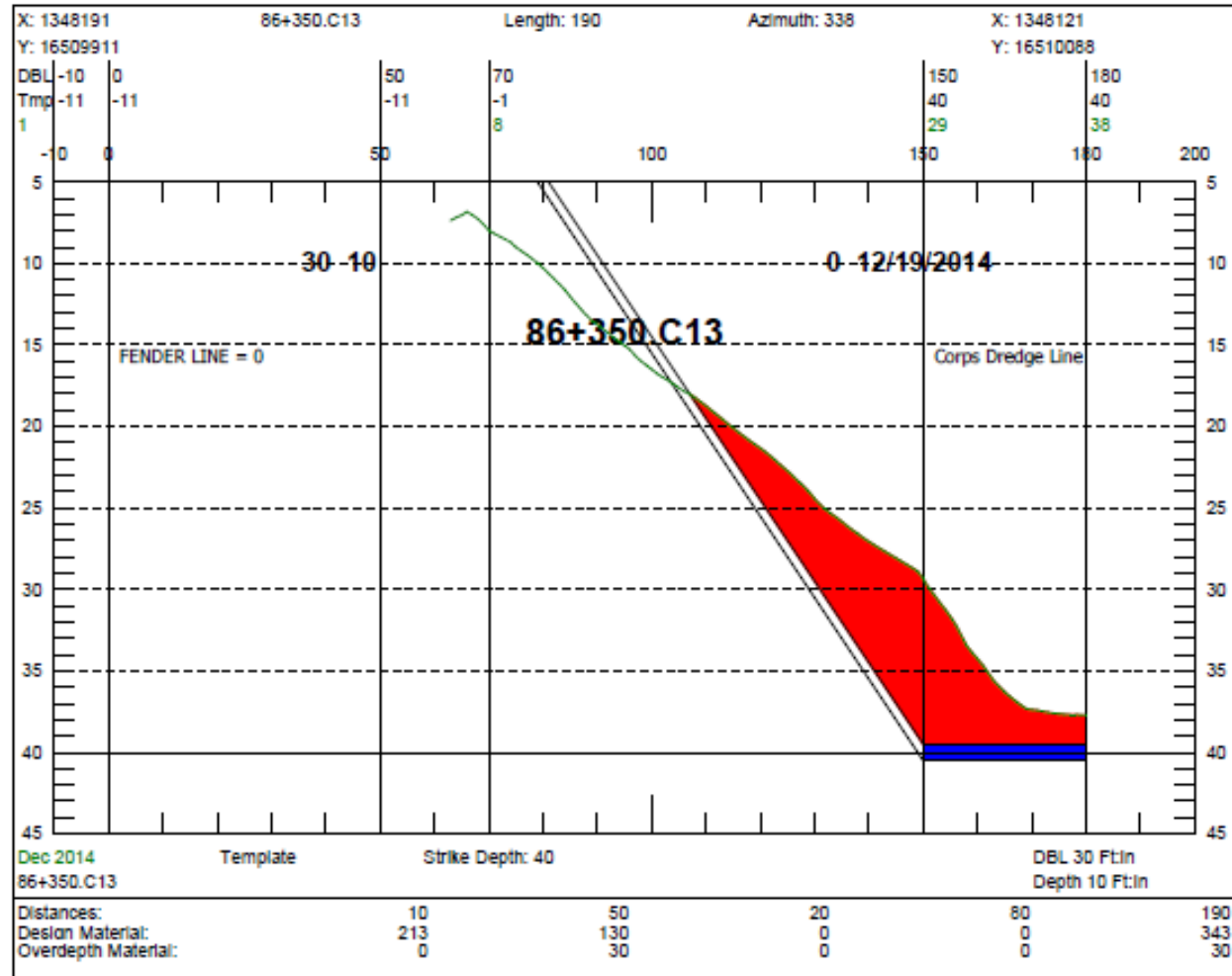
**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
 Corpus Christi, Texas 78411  
 WWW.NAISMITHMARINE.COM  
 (361) 945-0248

NO.	DATE	REVISION

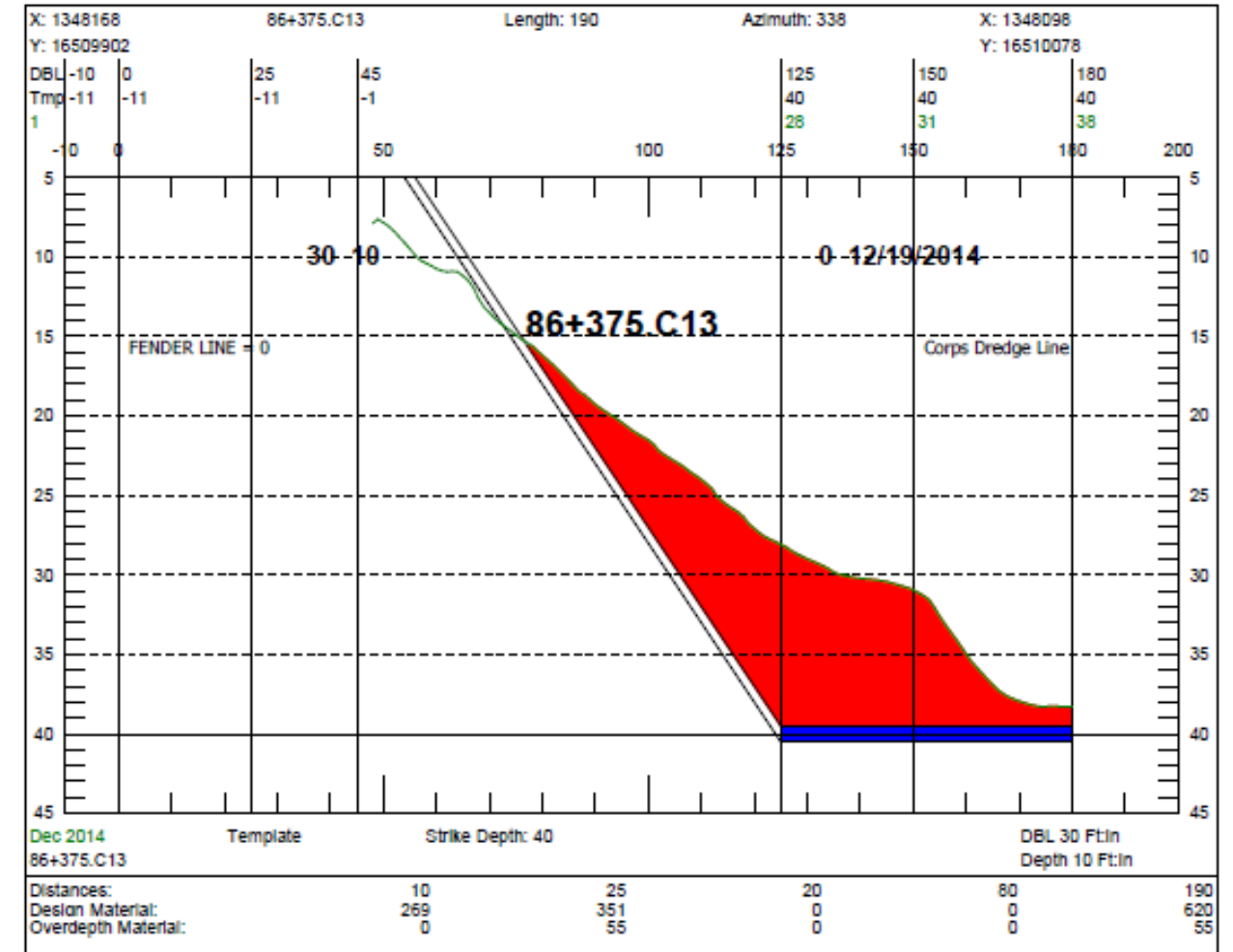
PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 CARGO DOCK NO. 13  
 CARGO DOCK 13

SCALE: NOTED	PAGE CD13-2 OF 15
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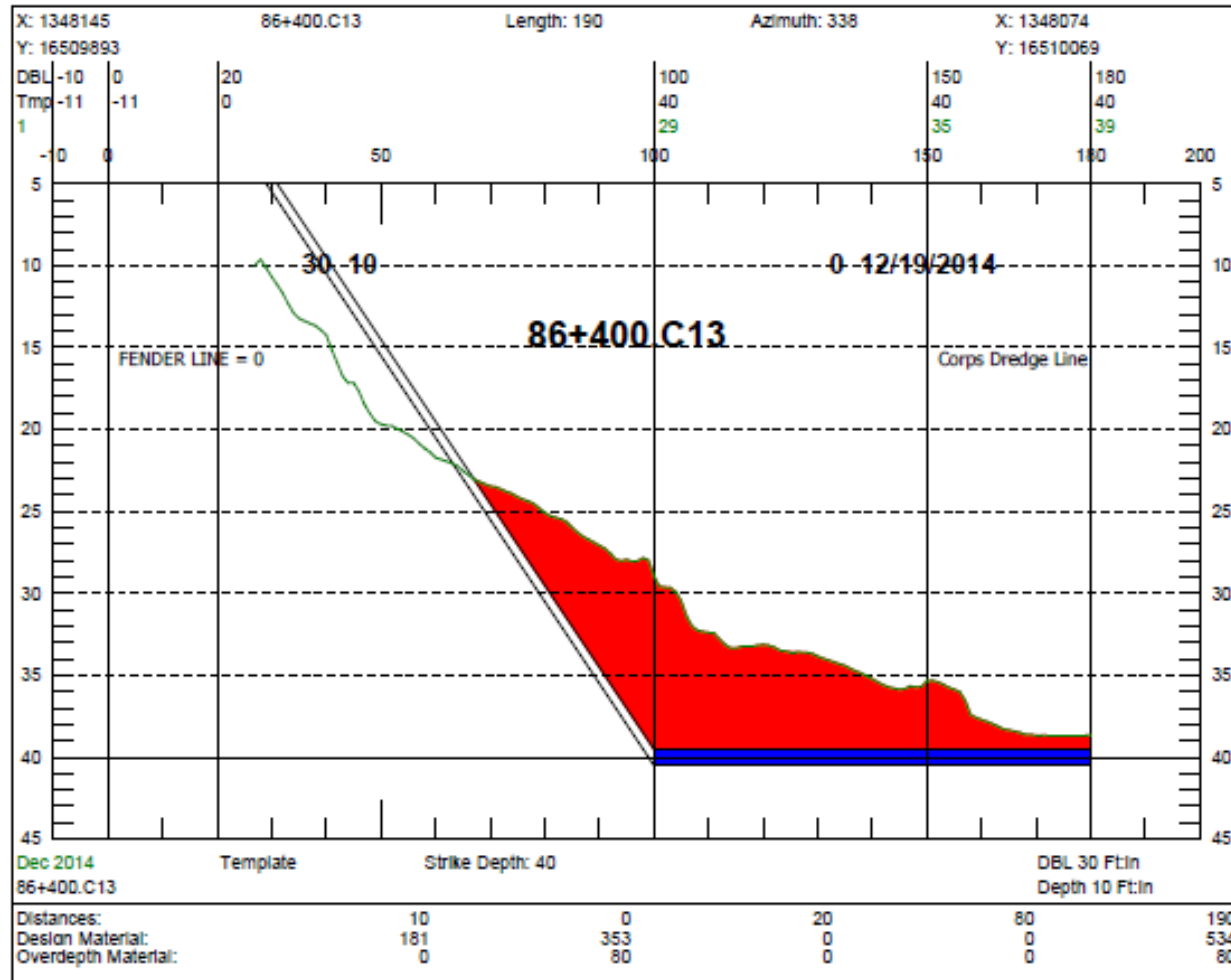
PLAN SHEET 1 OF 1 JUN. 2015



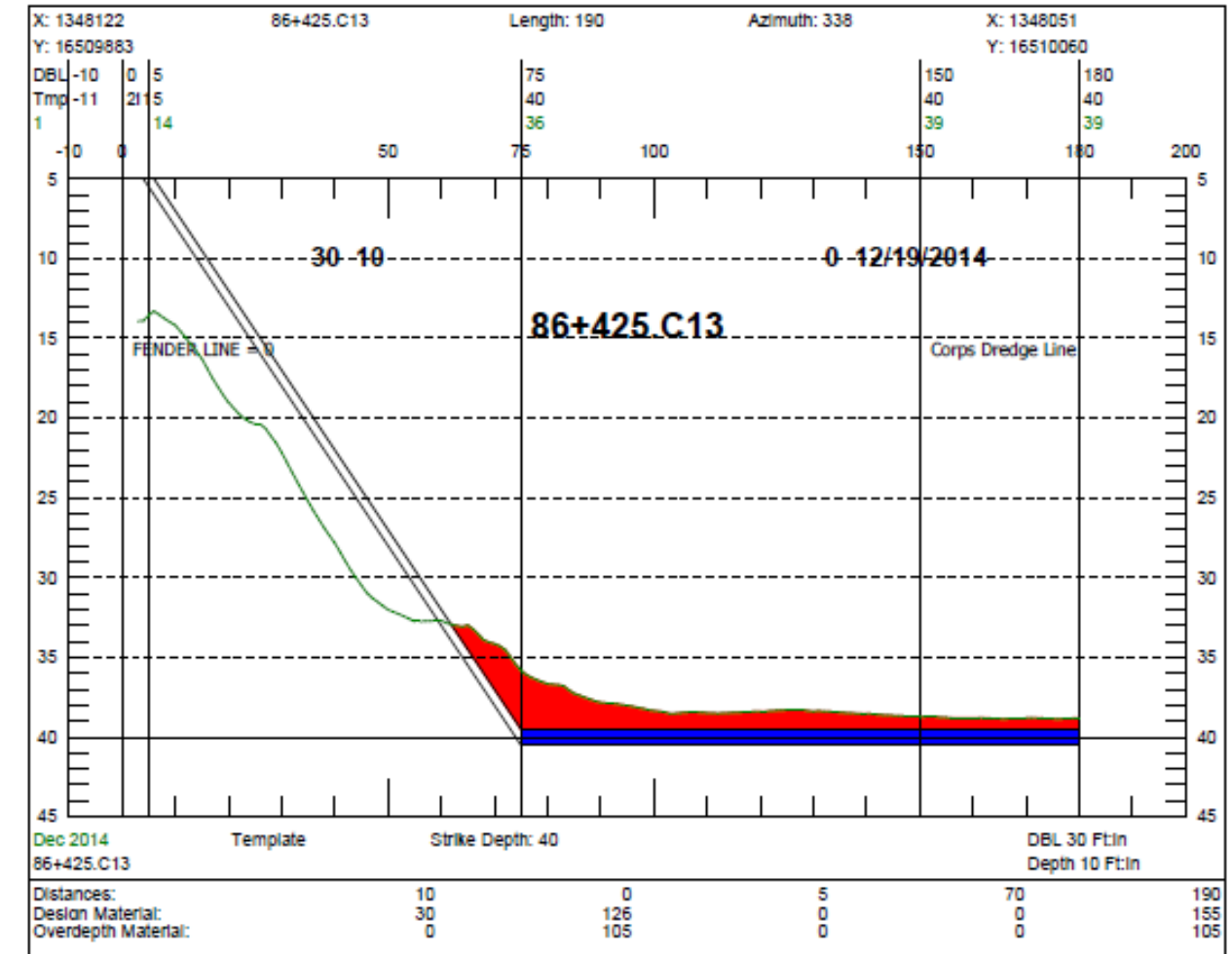
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



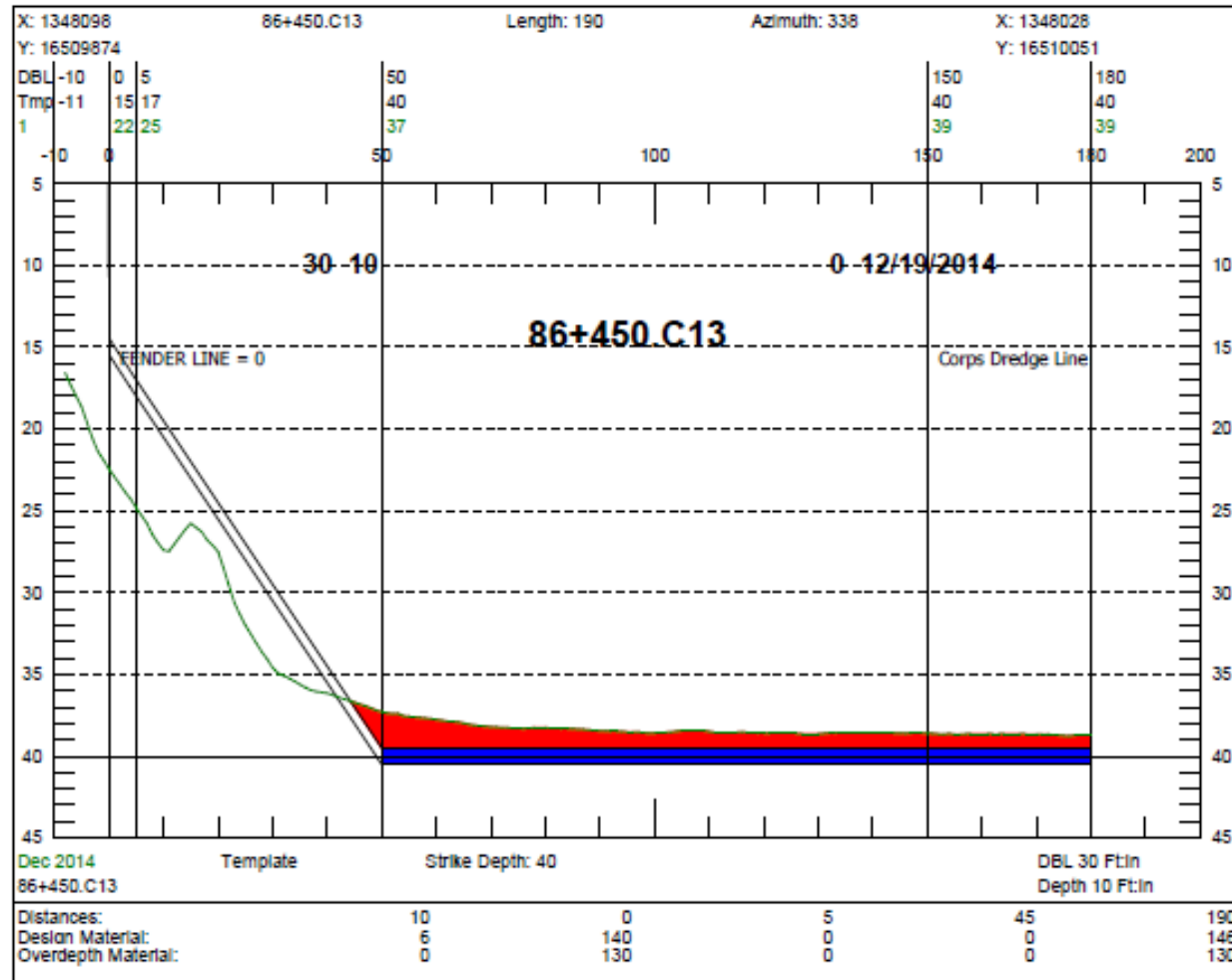
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



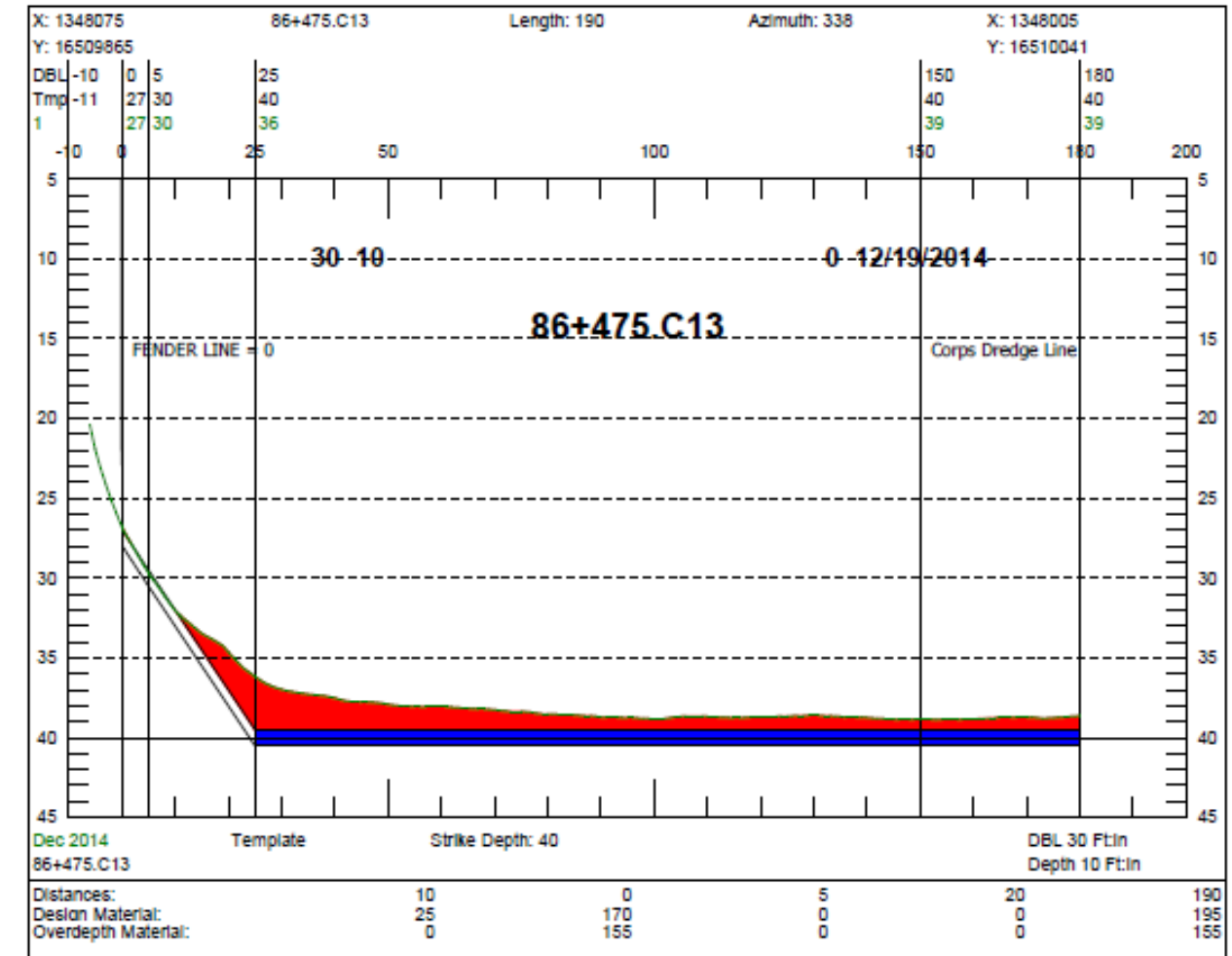
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



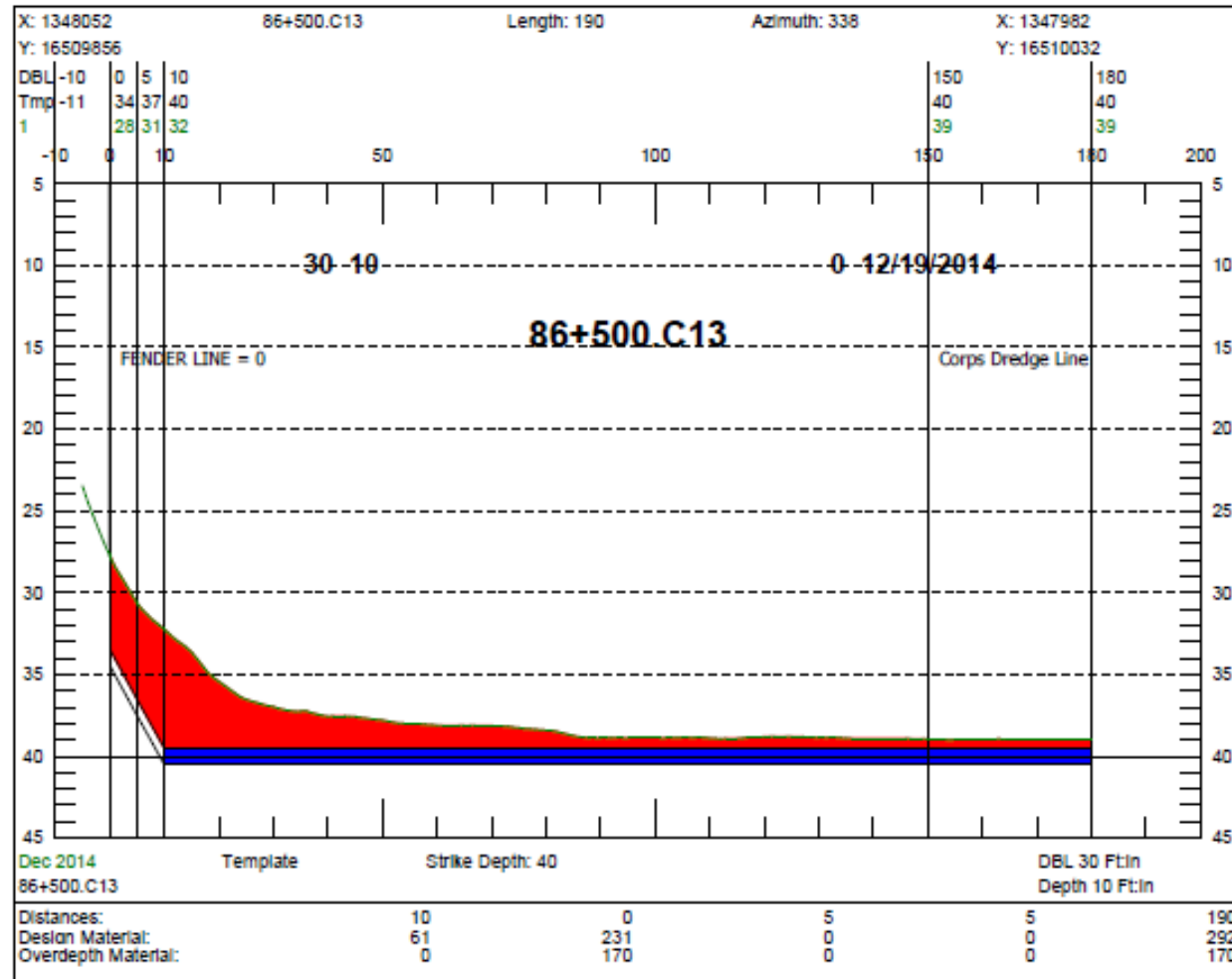
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



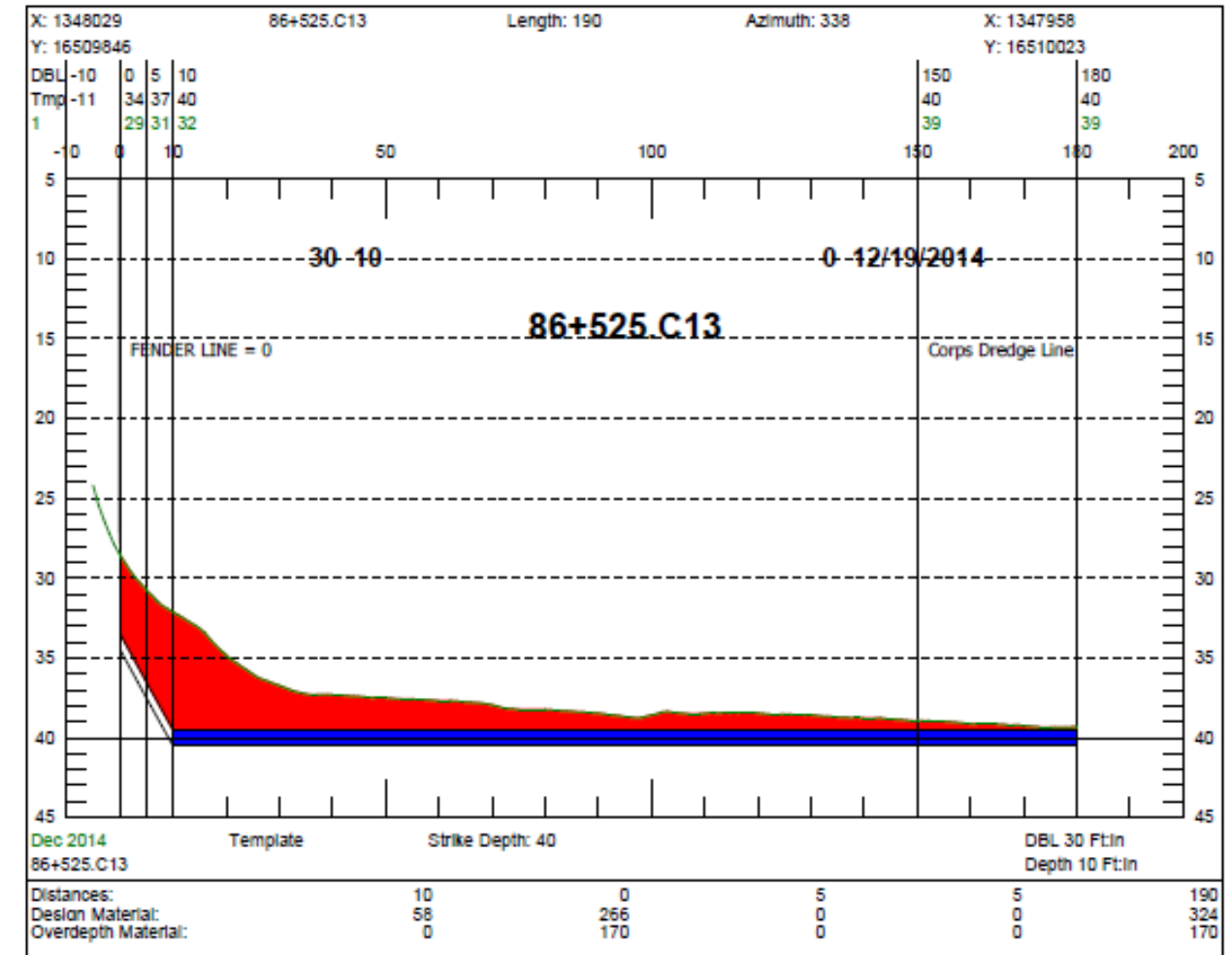
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



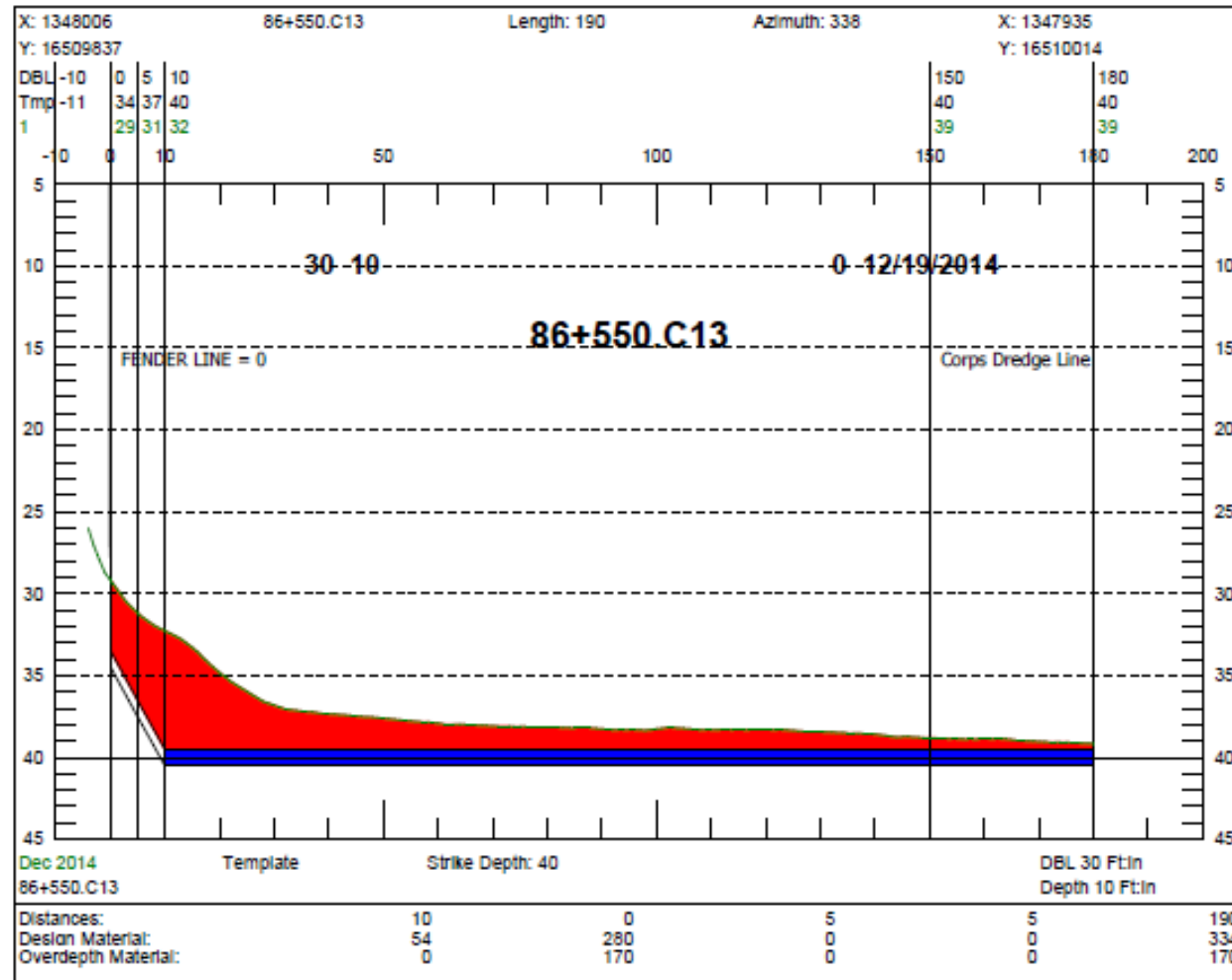
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



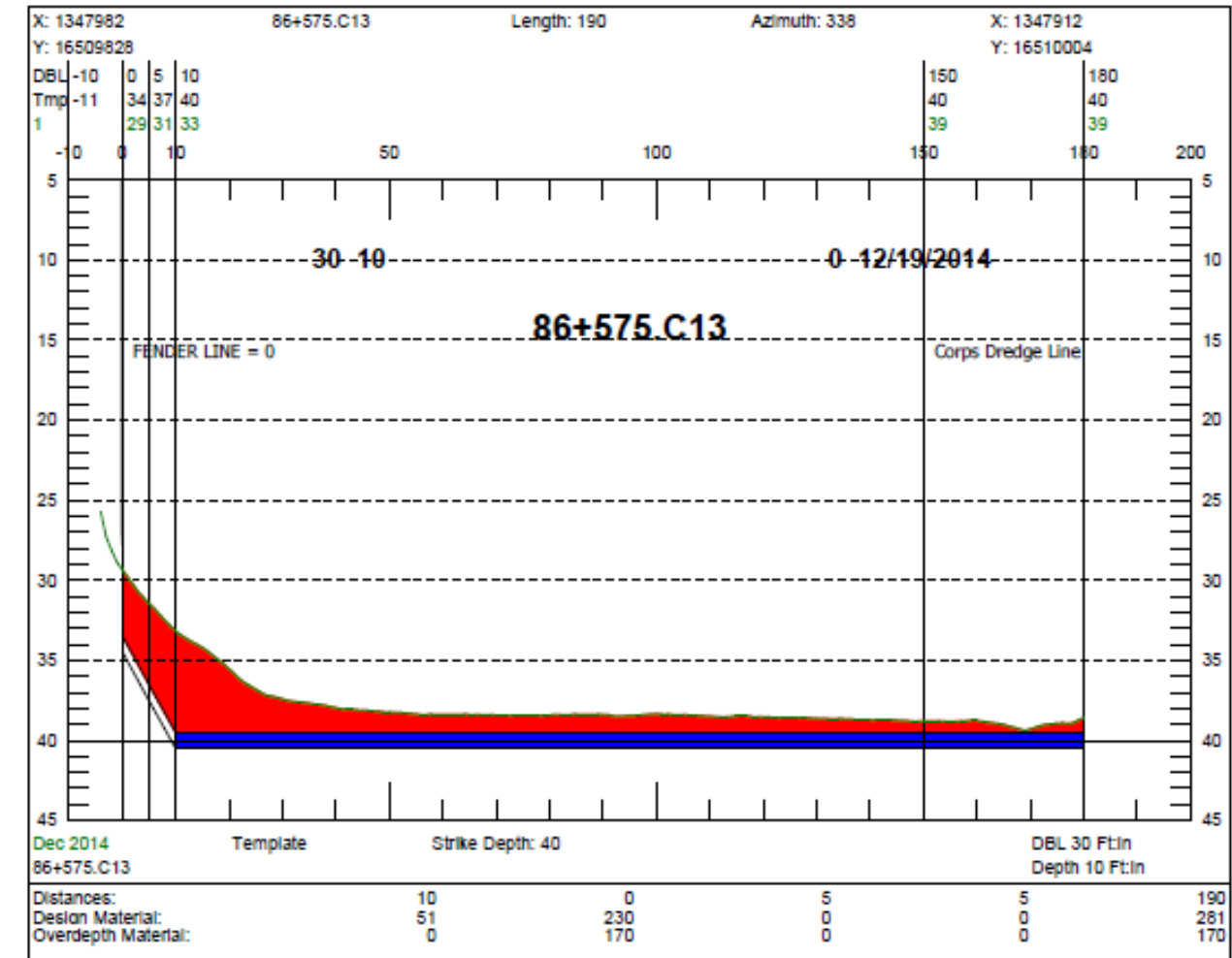
Sheet 7 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



Sheet 8 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

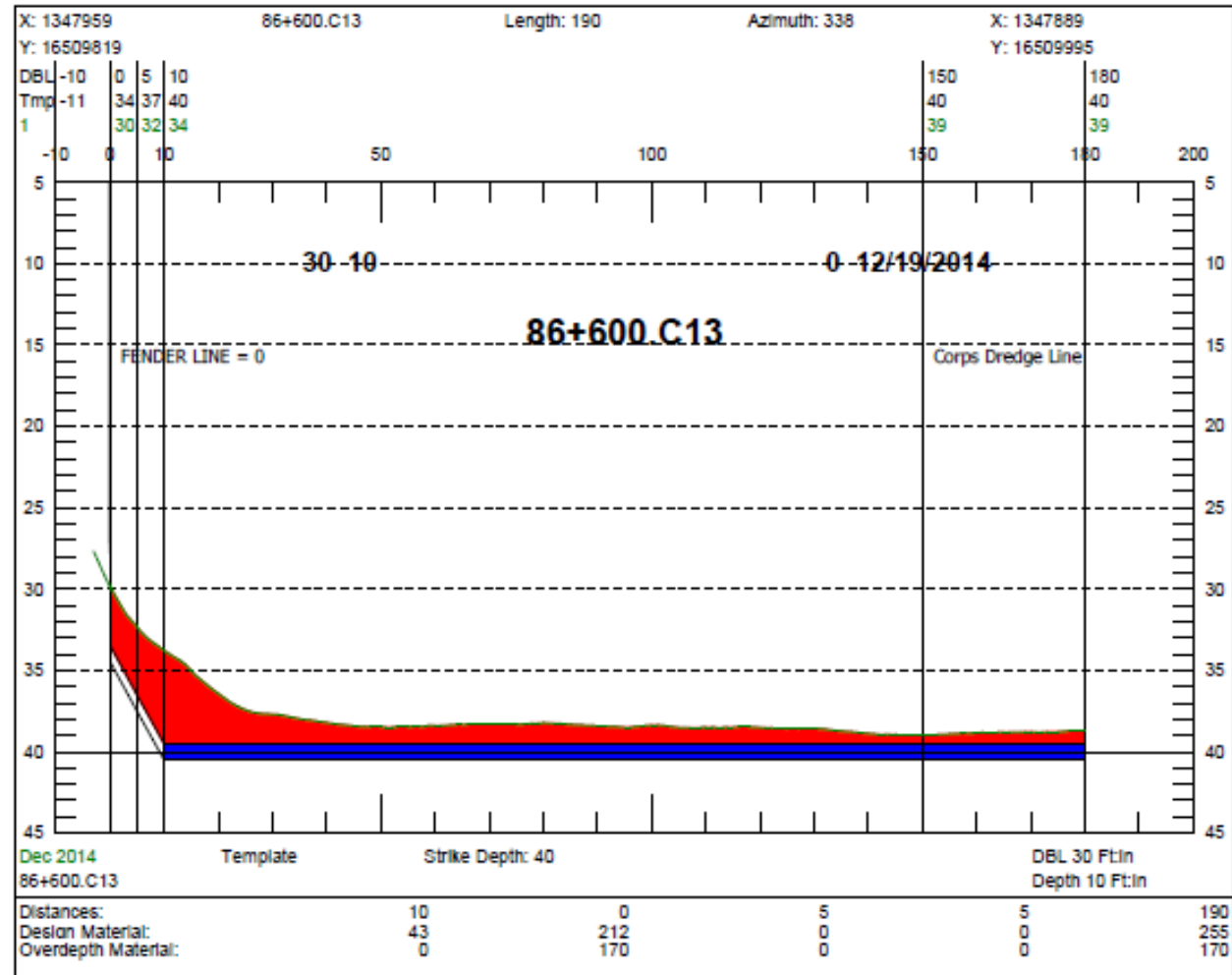


Sheet 9 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

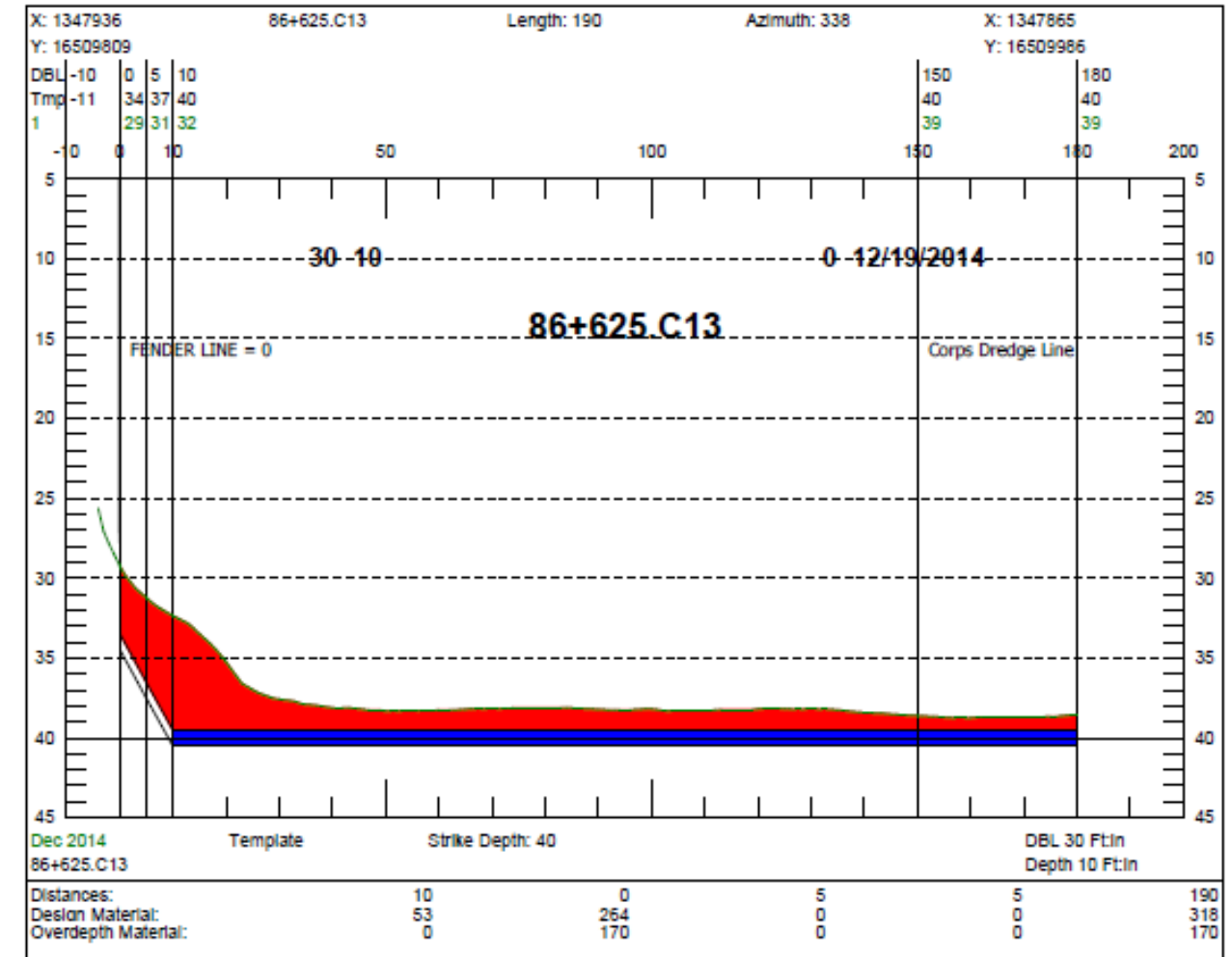


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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

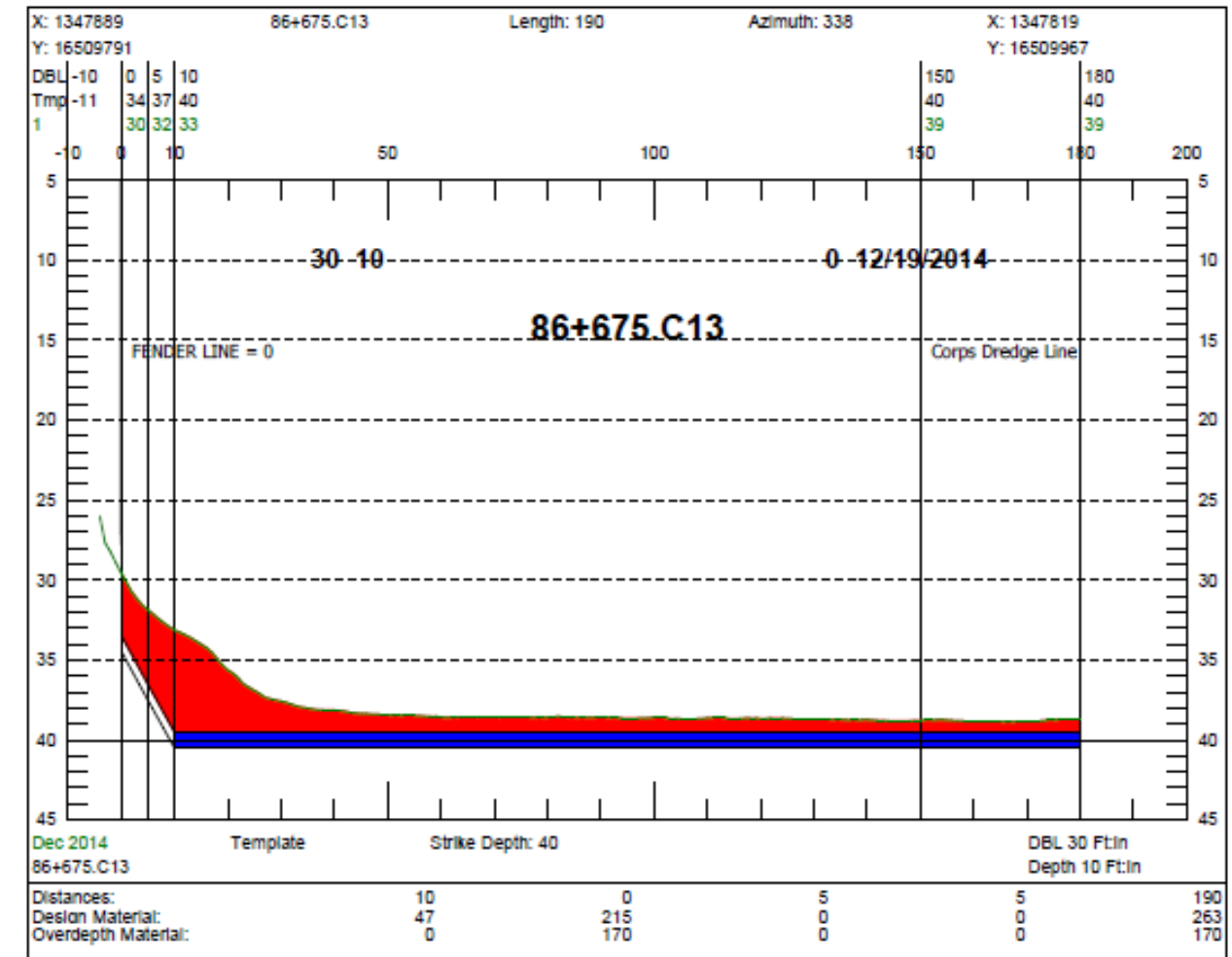
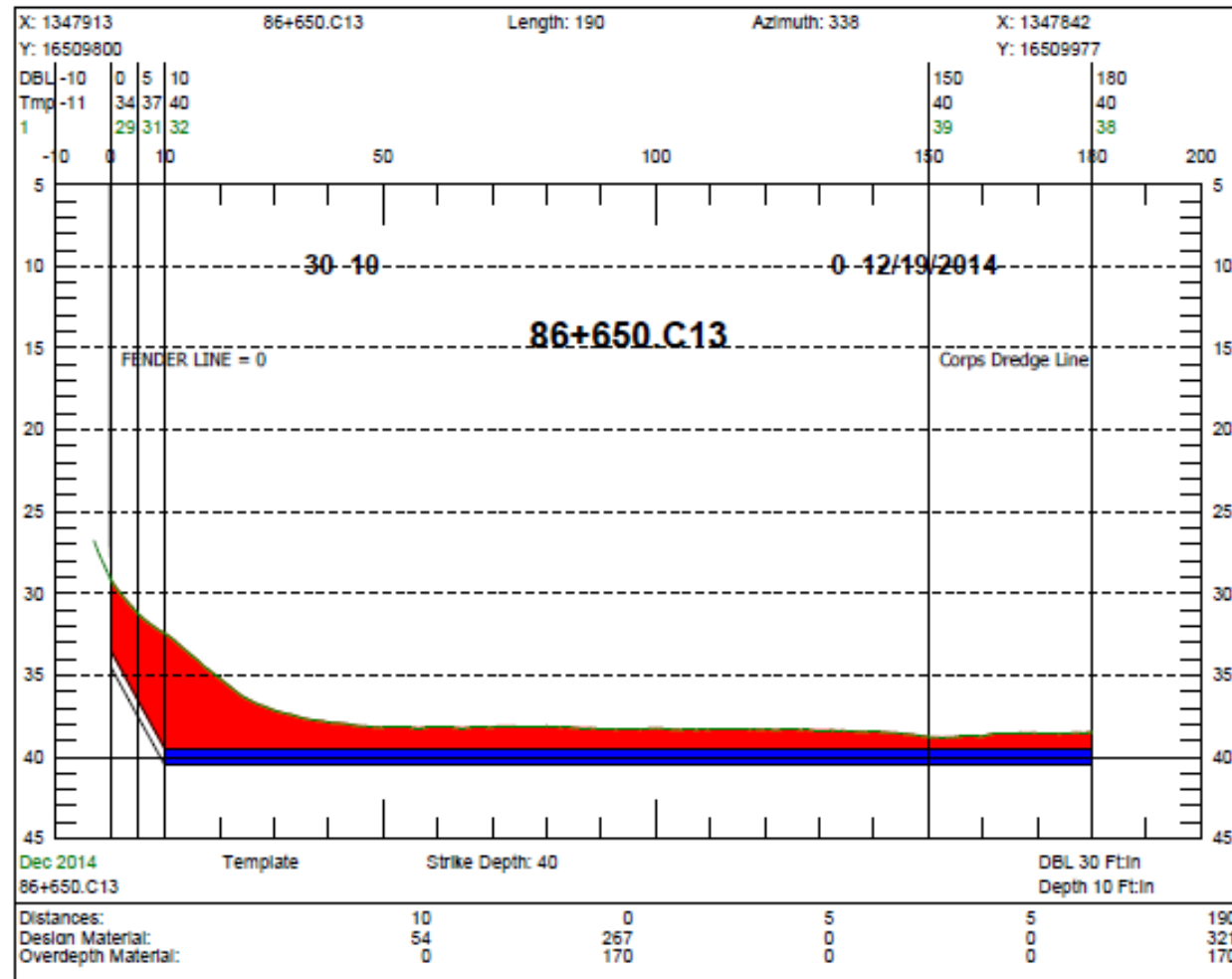




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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

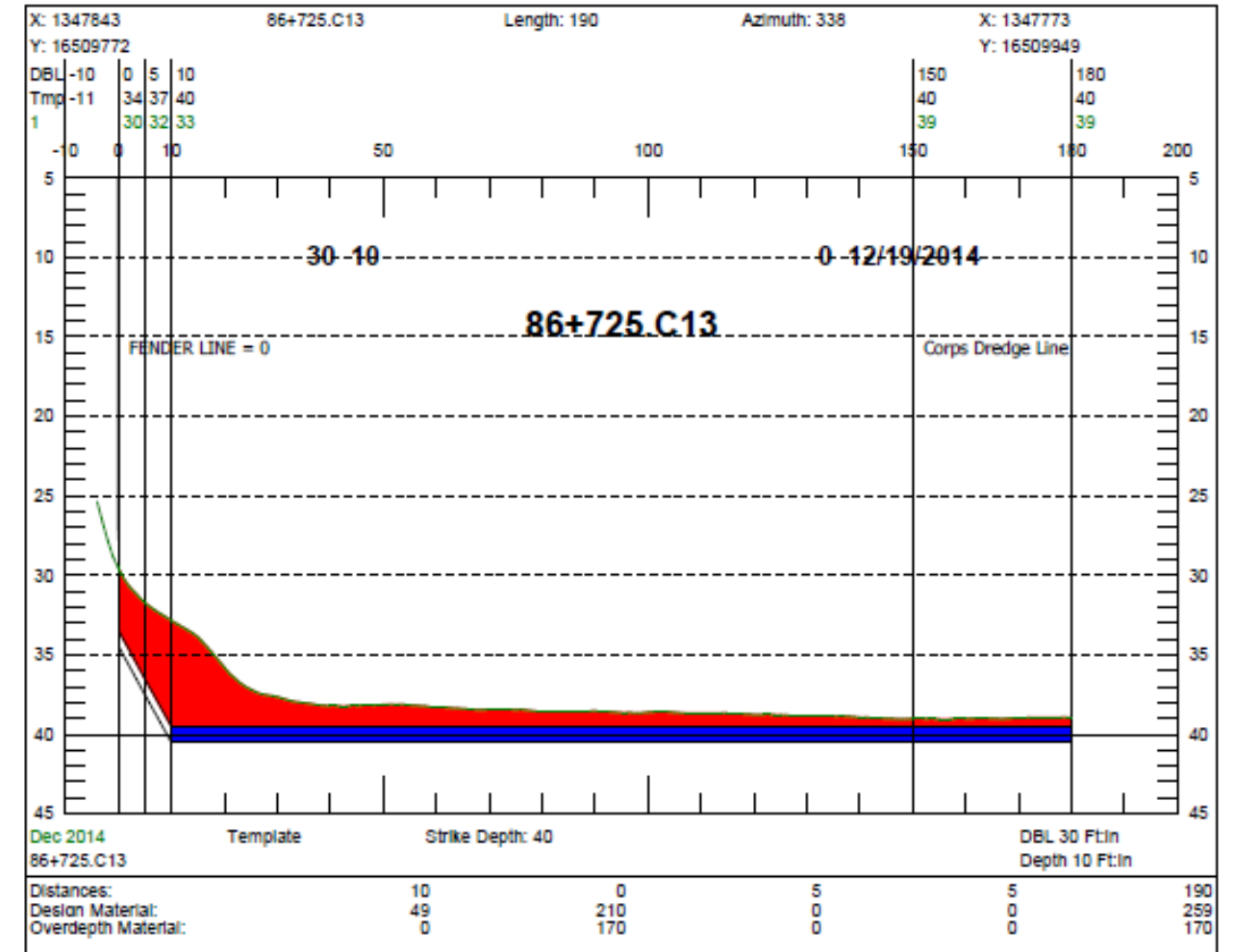
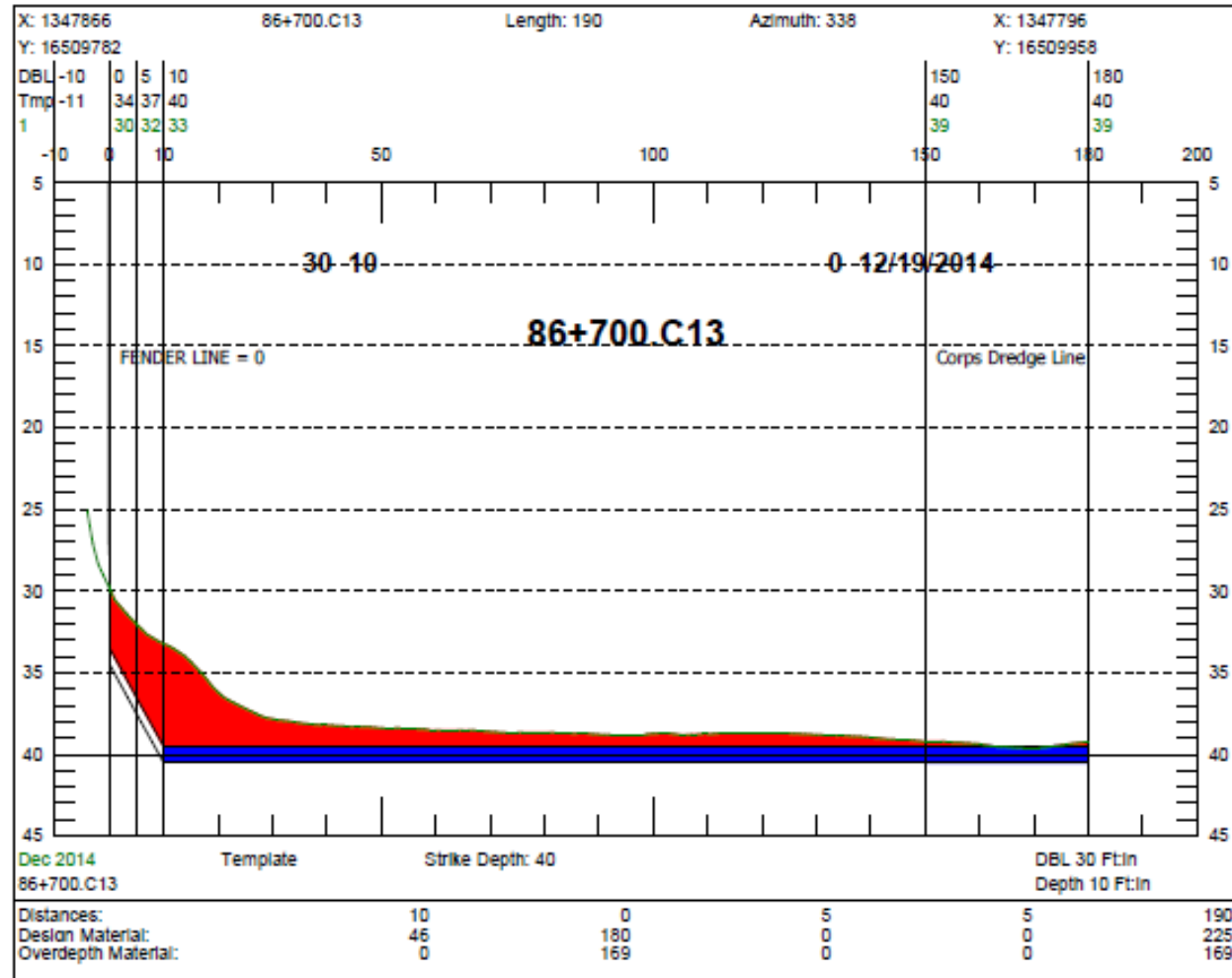


Sheet 12 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



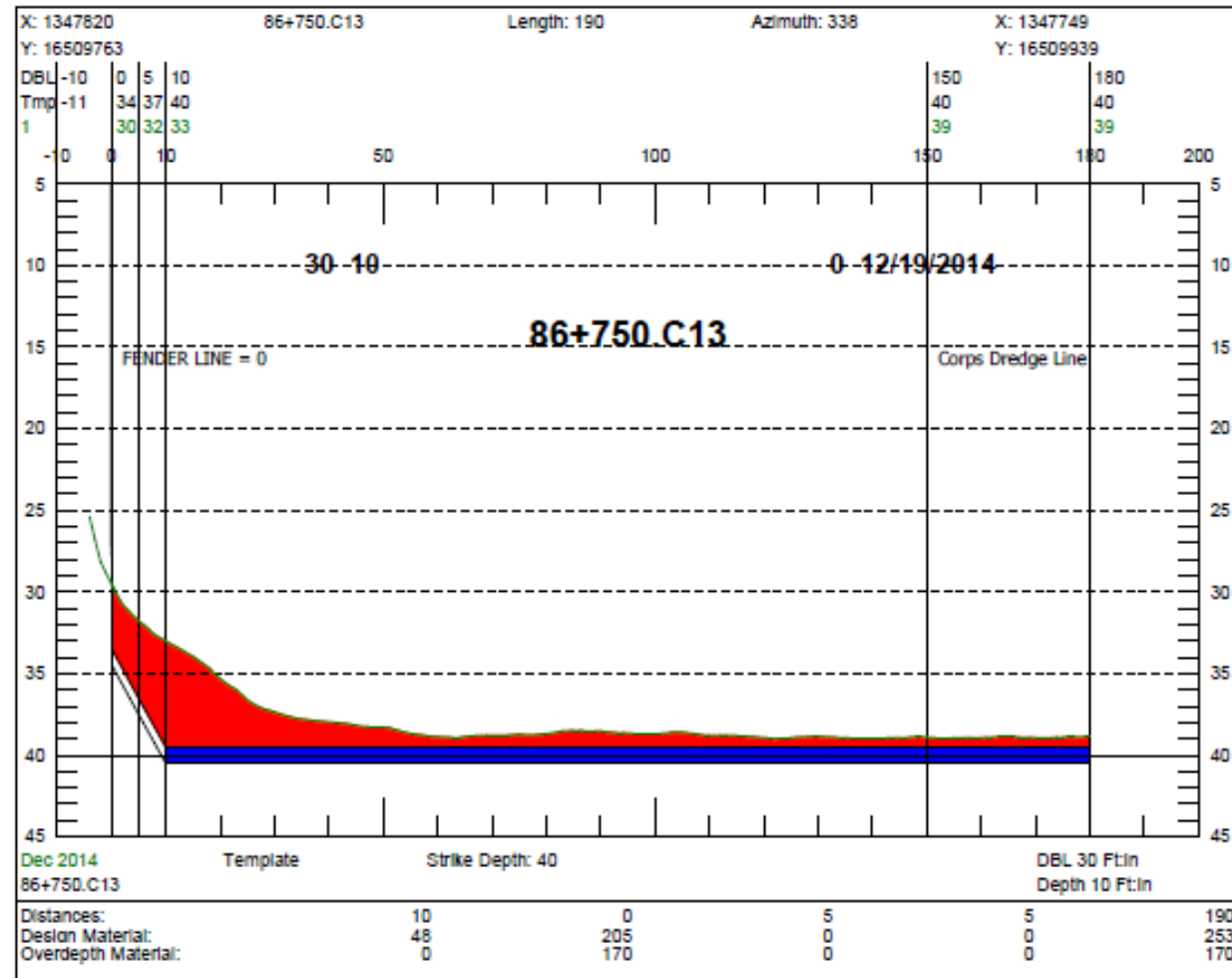
Sheet 13 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

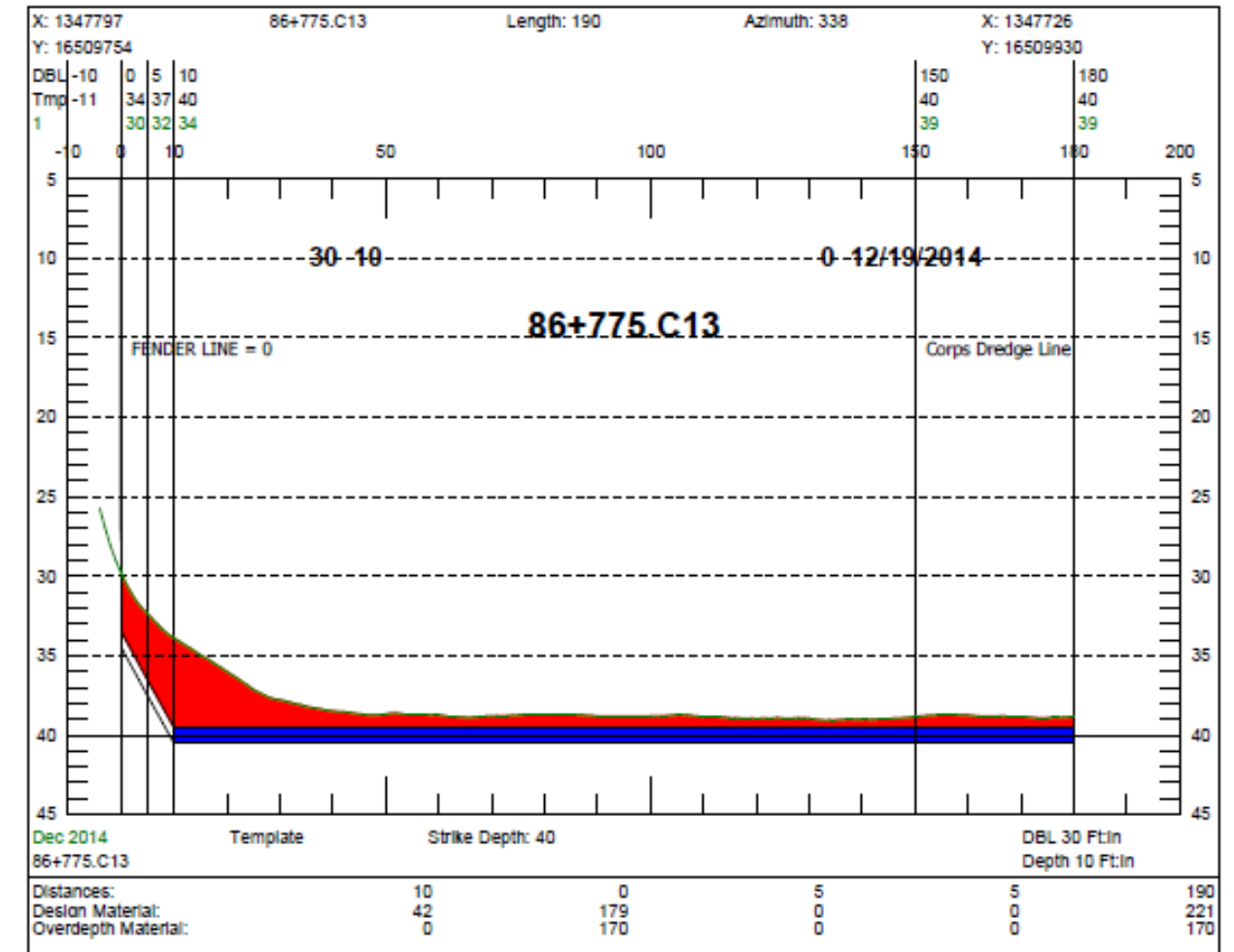


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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	

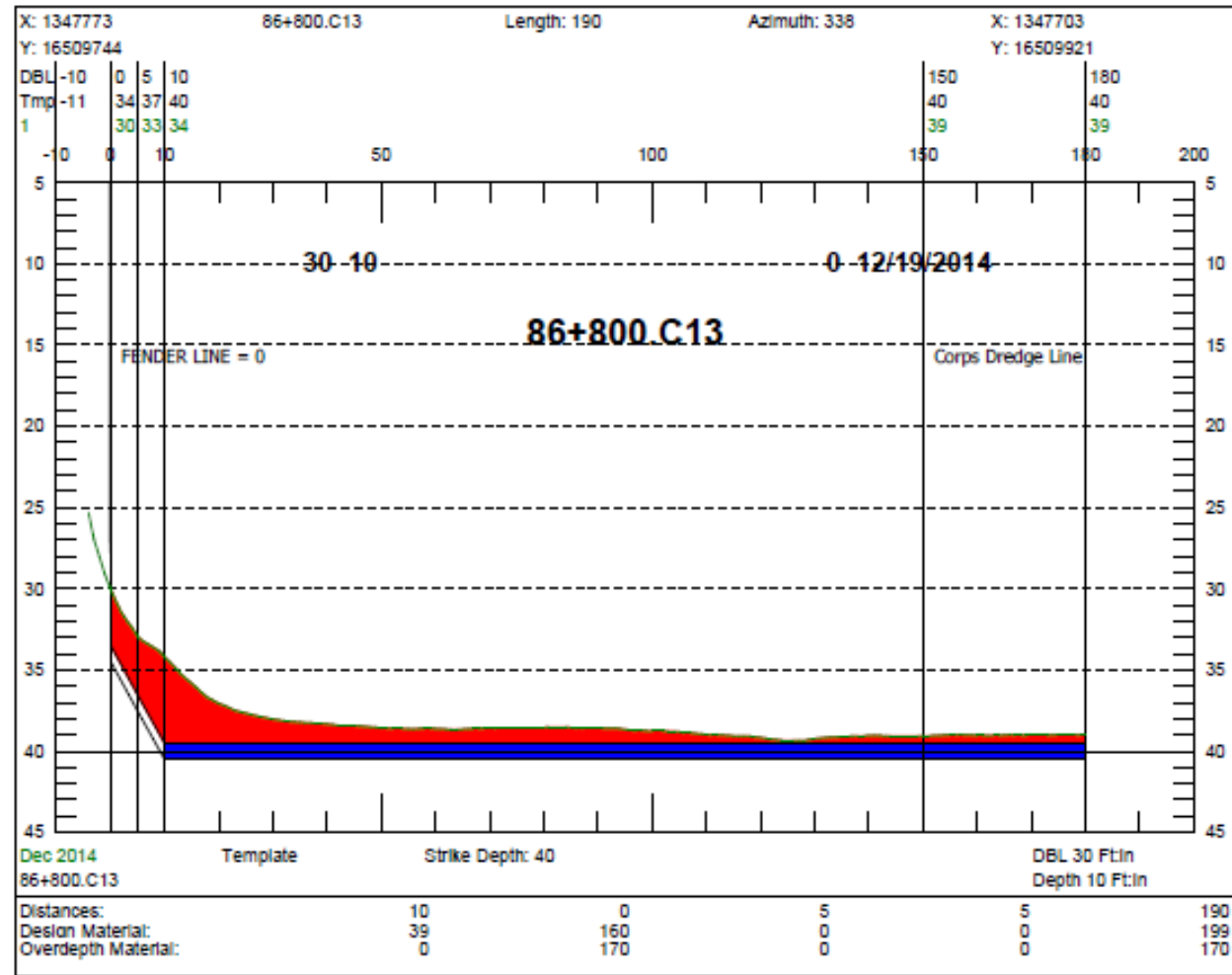
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



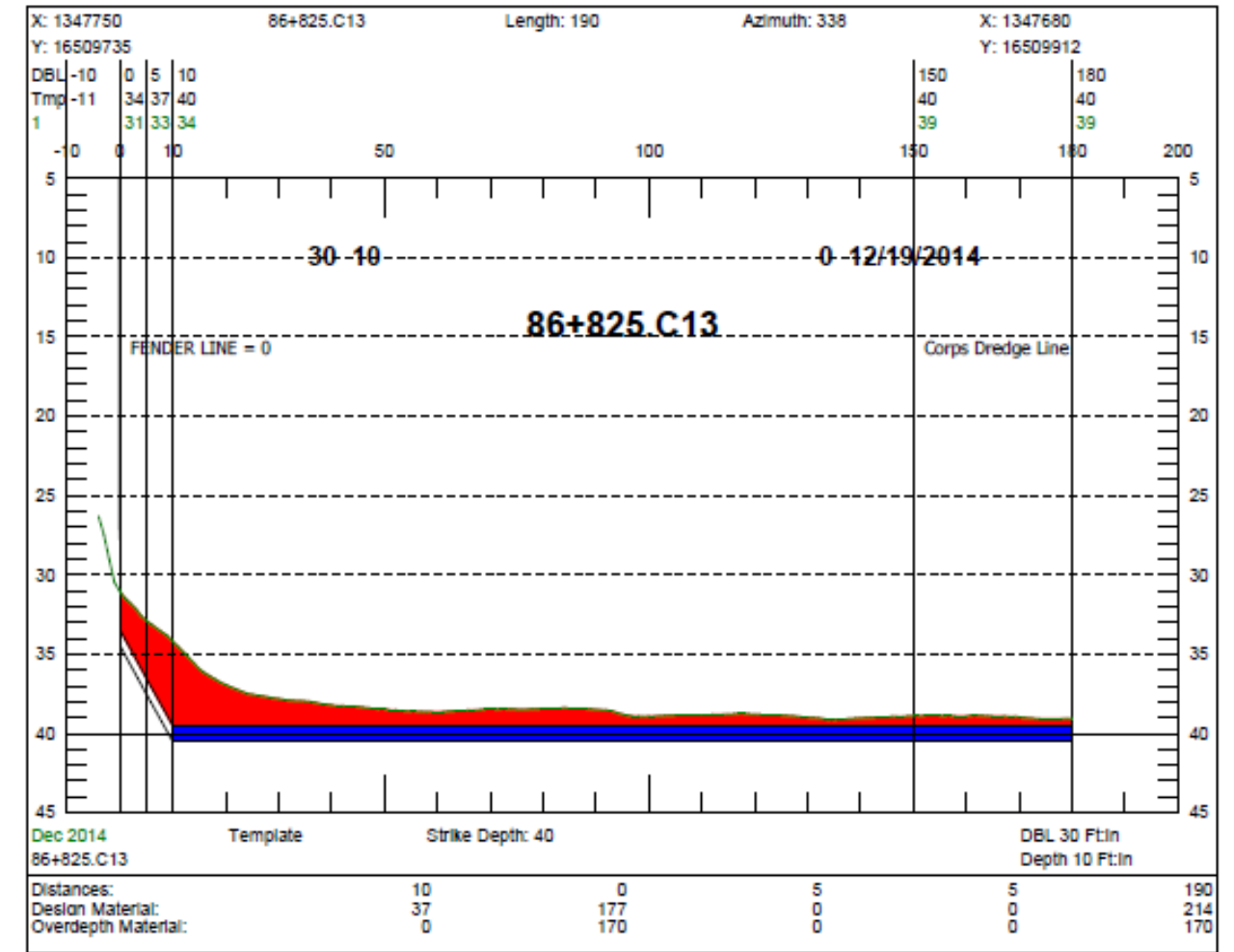
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Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



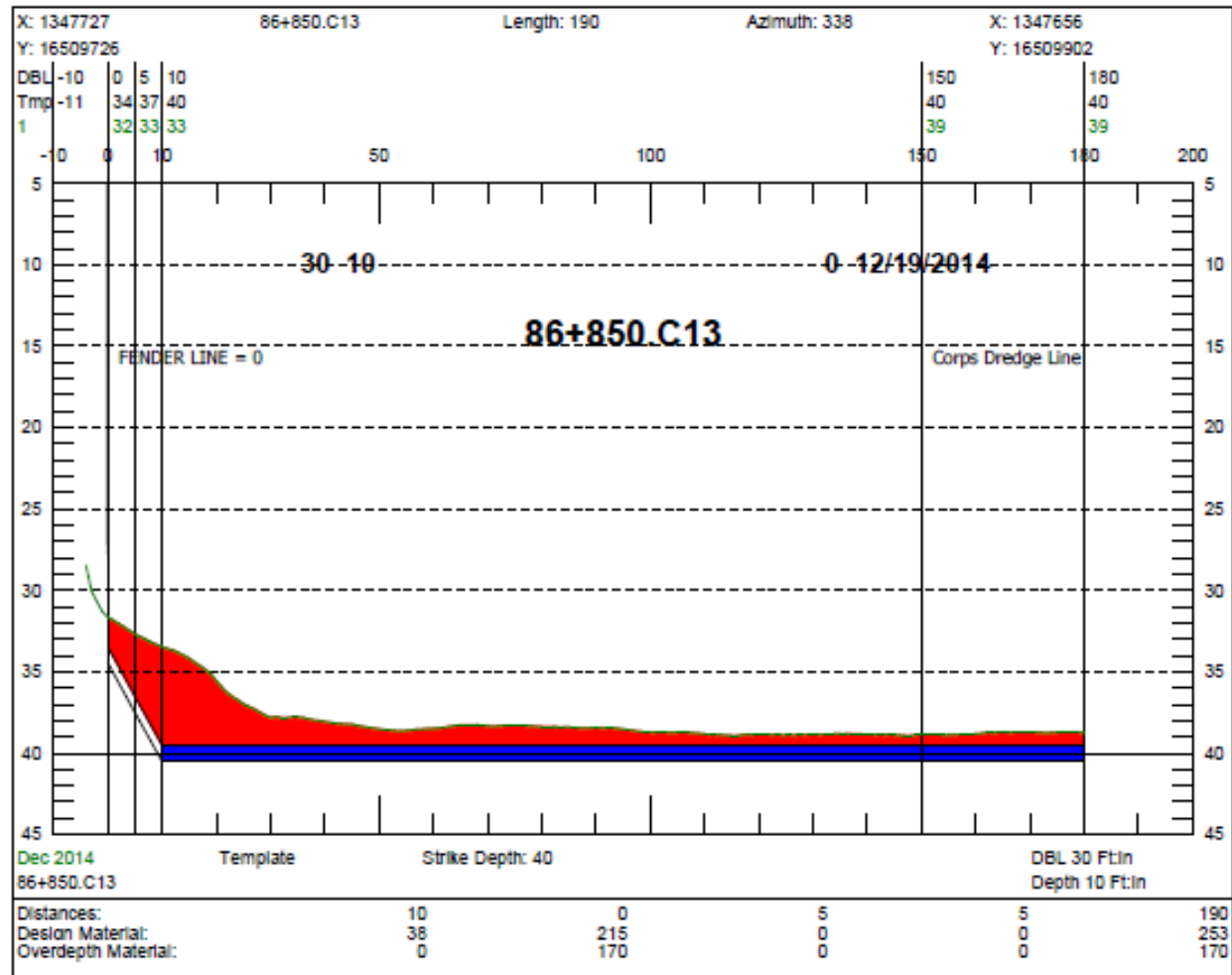
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Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



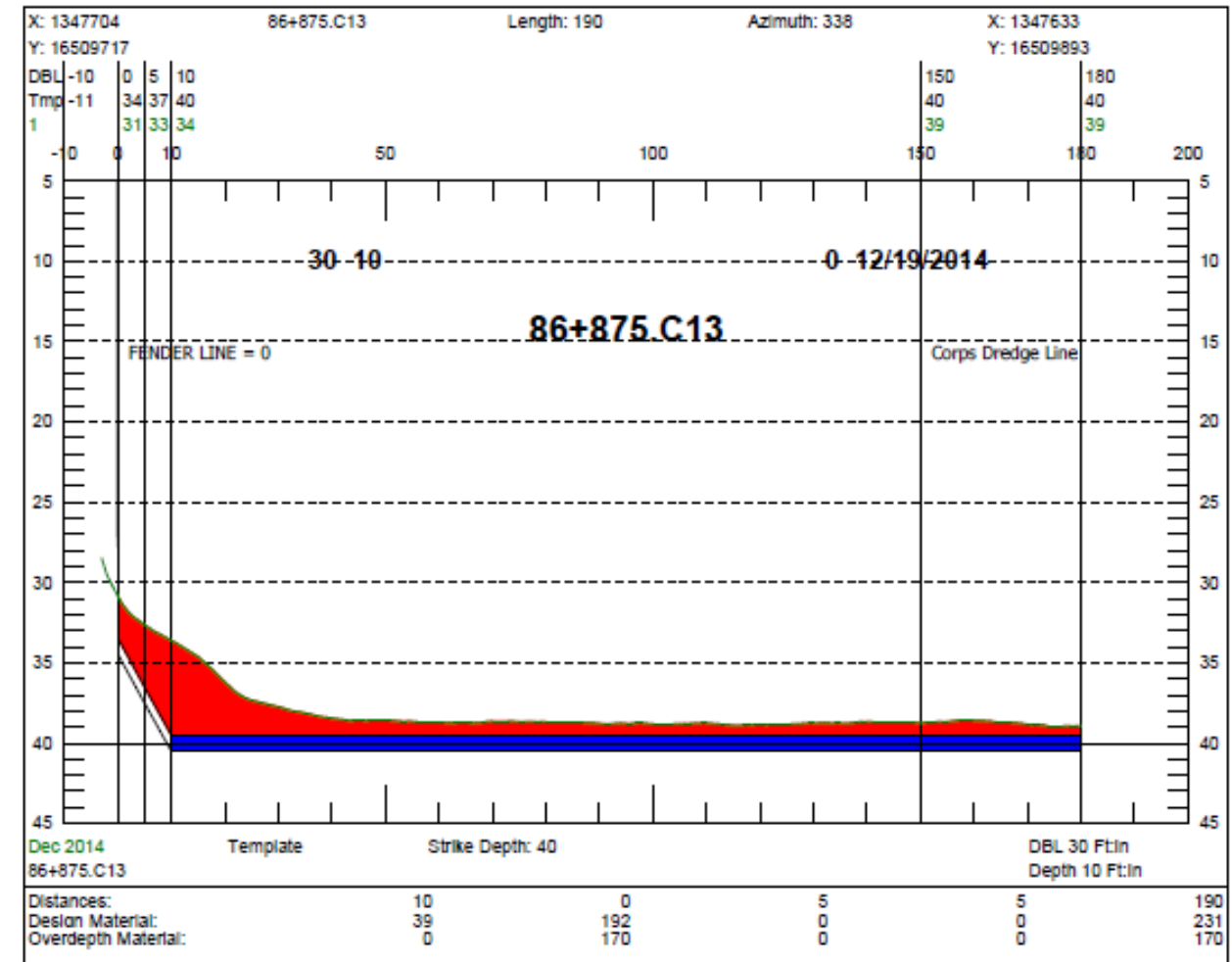
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Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



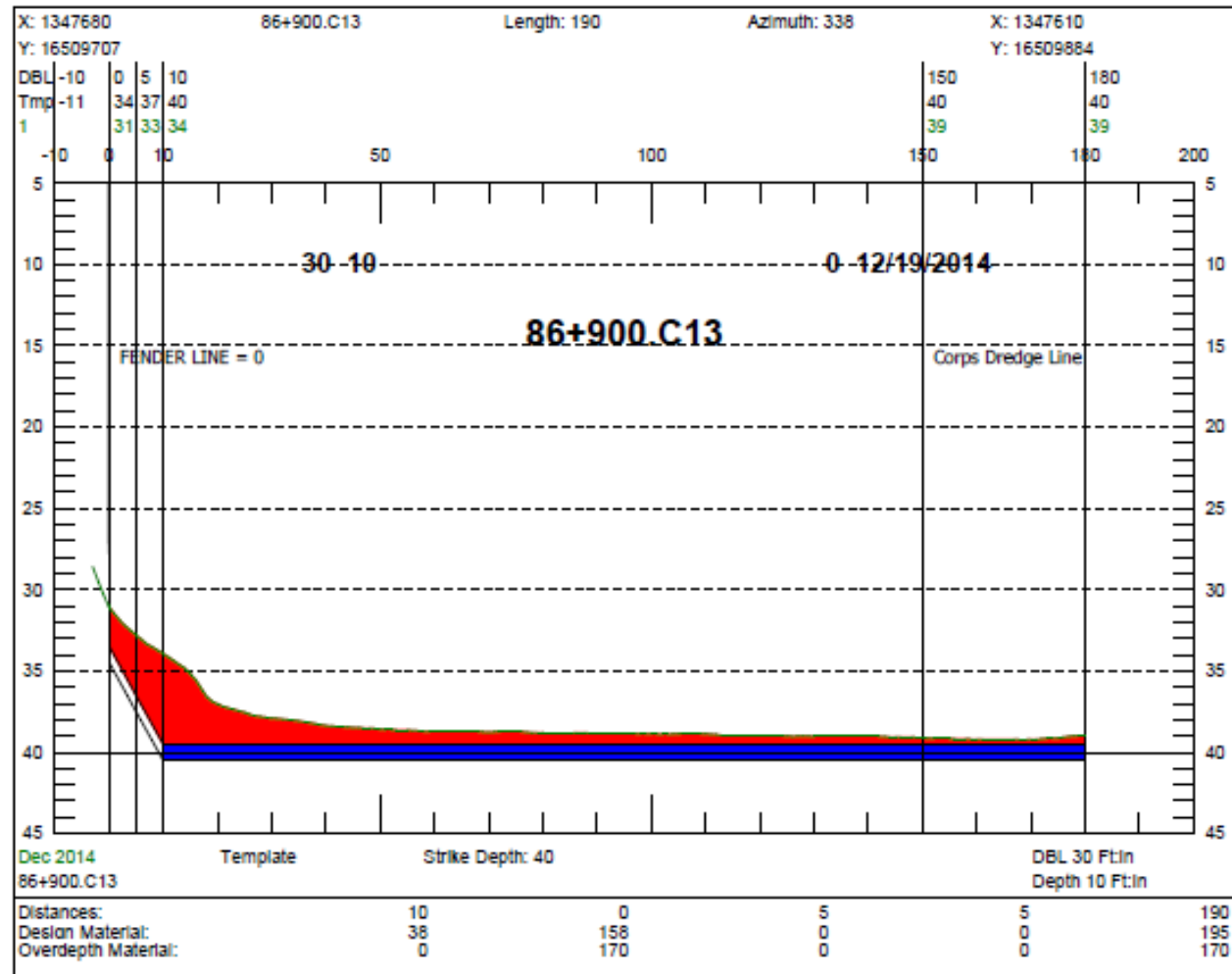
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Job	
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Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



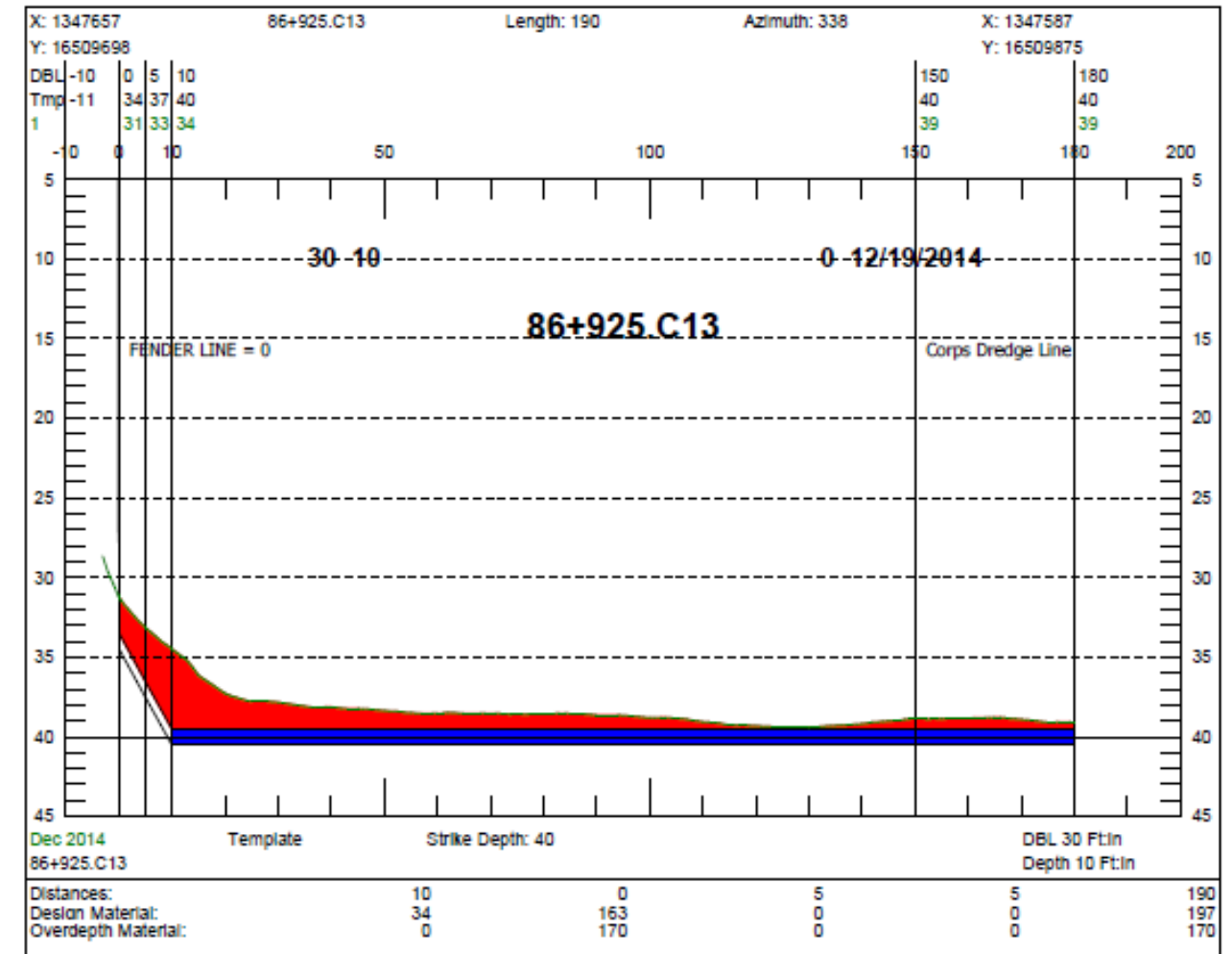
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Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



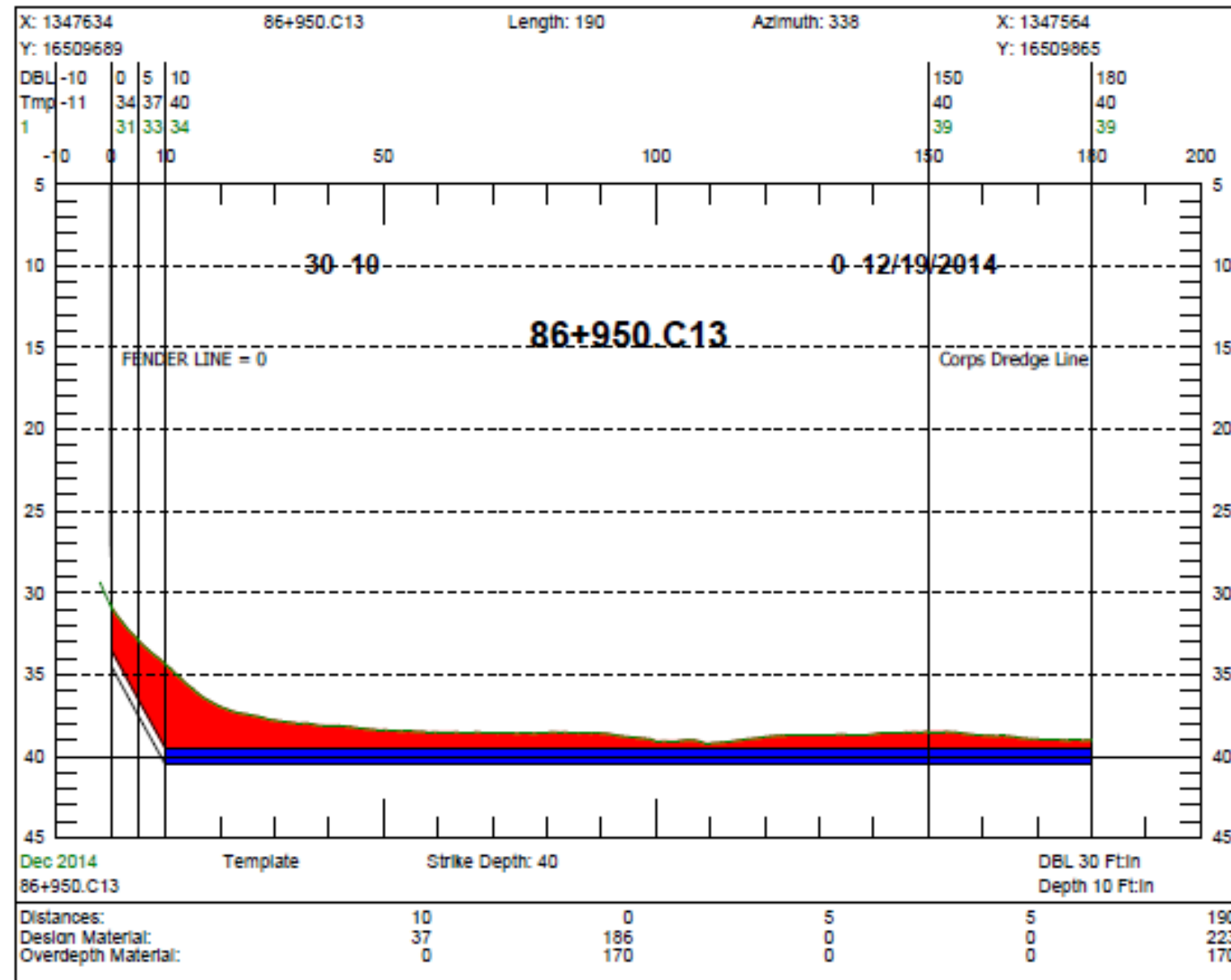
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Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



Sheet 23 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
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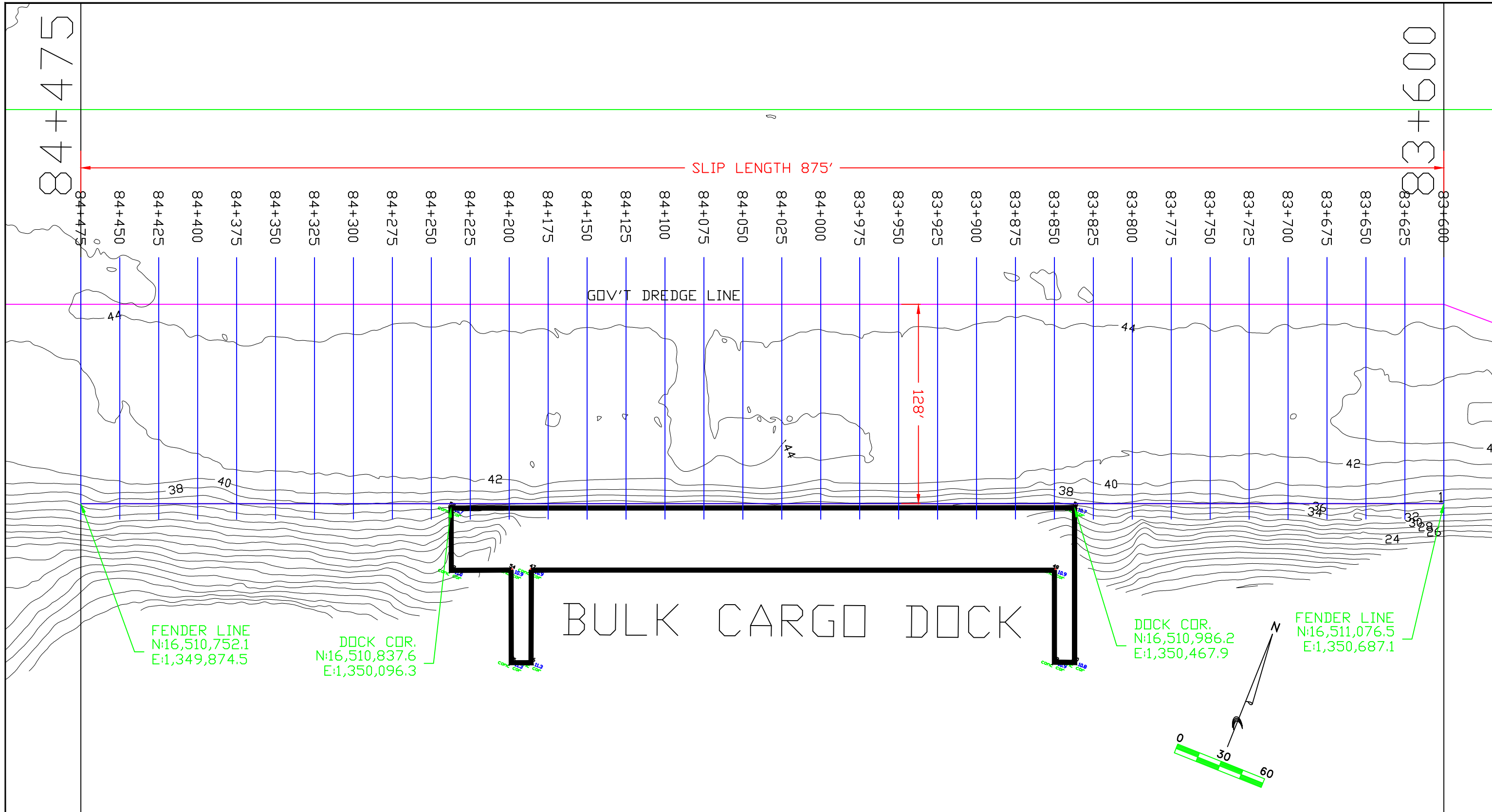
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Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



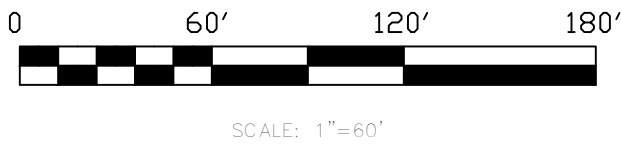
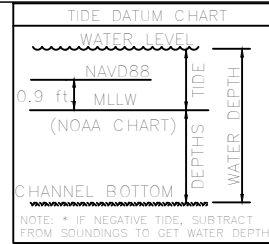
Sheet 25 Of 25	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 13
Surveyor	Nalsmith Marine Services
Date	12/19/2014
File	



**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**BULK CARGO DOCK**



**NOTES:**  
 1) DEPTHS/ELEVATIONS WERE MEASURED BY NAISMITH MARINE SERVICES ON DECEMBER 19, 2014. SEA FLOOR CONDITIONS ARE SUBJECT TO CHANGE.  
 2) HORIZONTAL DATUM: NAD27, TEXAS SOUTH ZONE, US FEET.  
 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
 REFERENCE MONUMENT "535 R/L 1948 89+679.68"  
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 E: 2,360,559.23  
 ELEV: 14.7' MLLW (13.8' NAVD88)

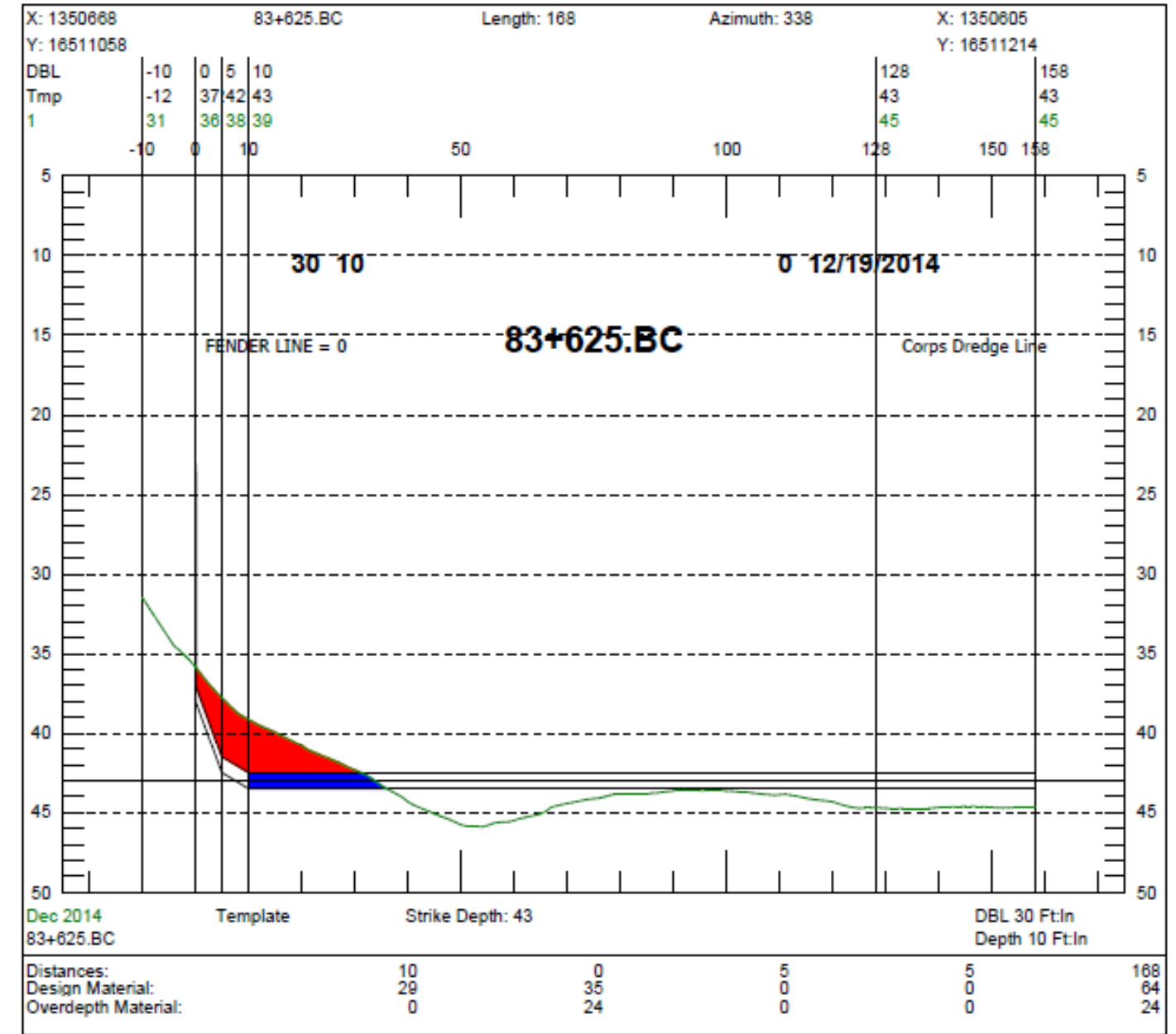
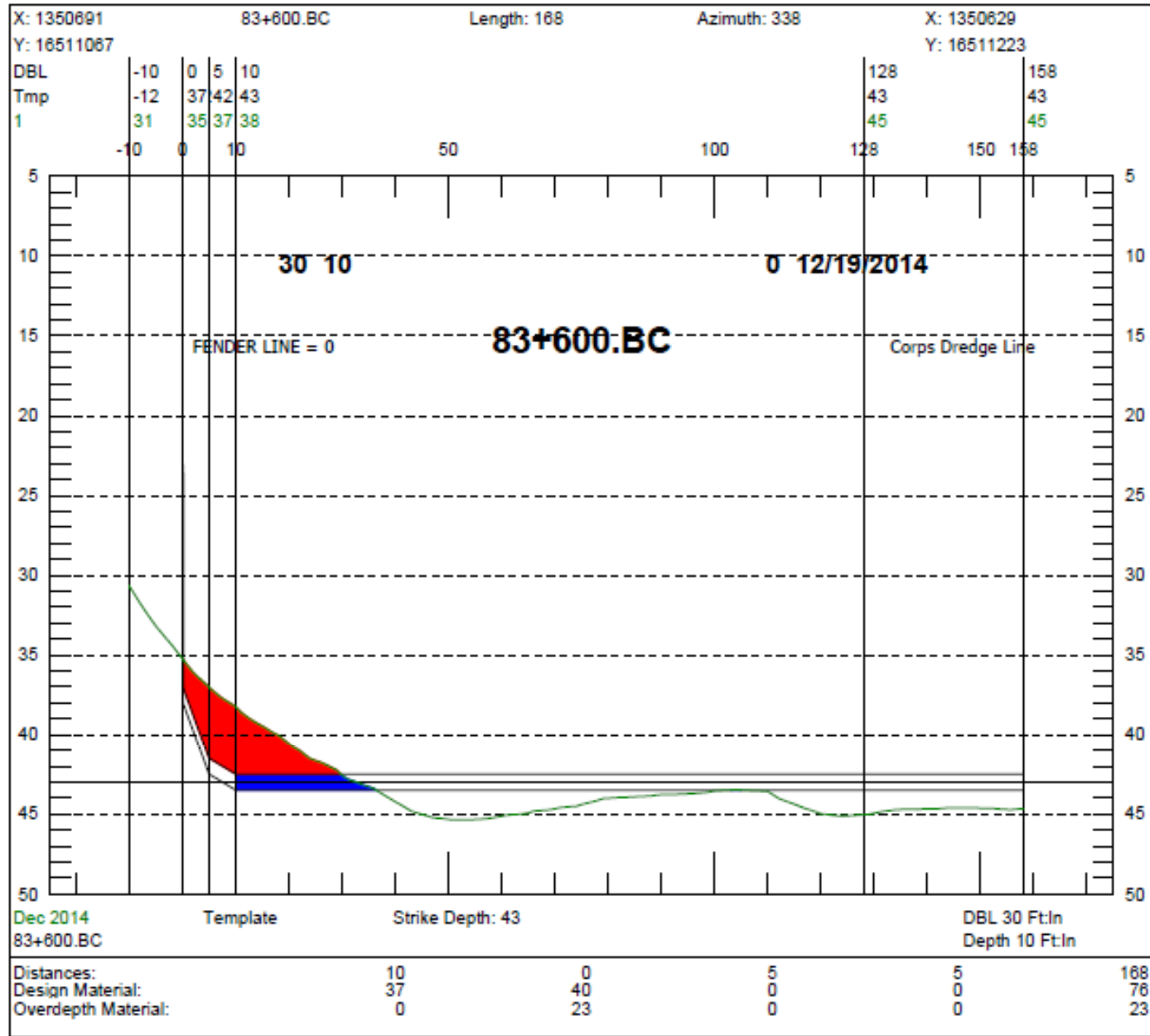


**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
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NO.	DATE	REVISION

PORT OF BROWNSVILLE  
 TRANSECT LAYOUT  
 BULK CARGO DOCK  
 BULK CARGO DOCK  
 PAGE BCD-2 OF 20  
 PLAN SHEET 1 OF 1  
 JUN. 2015

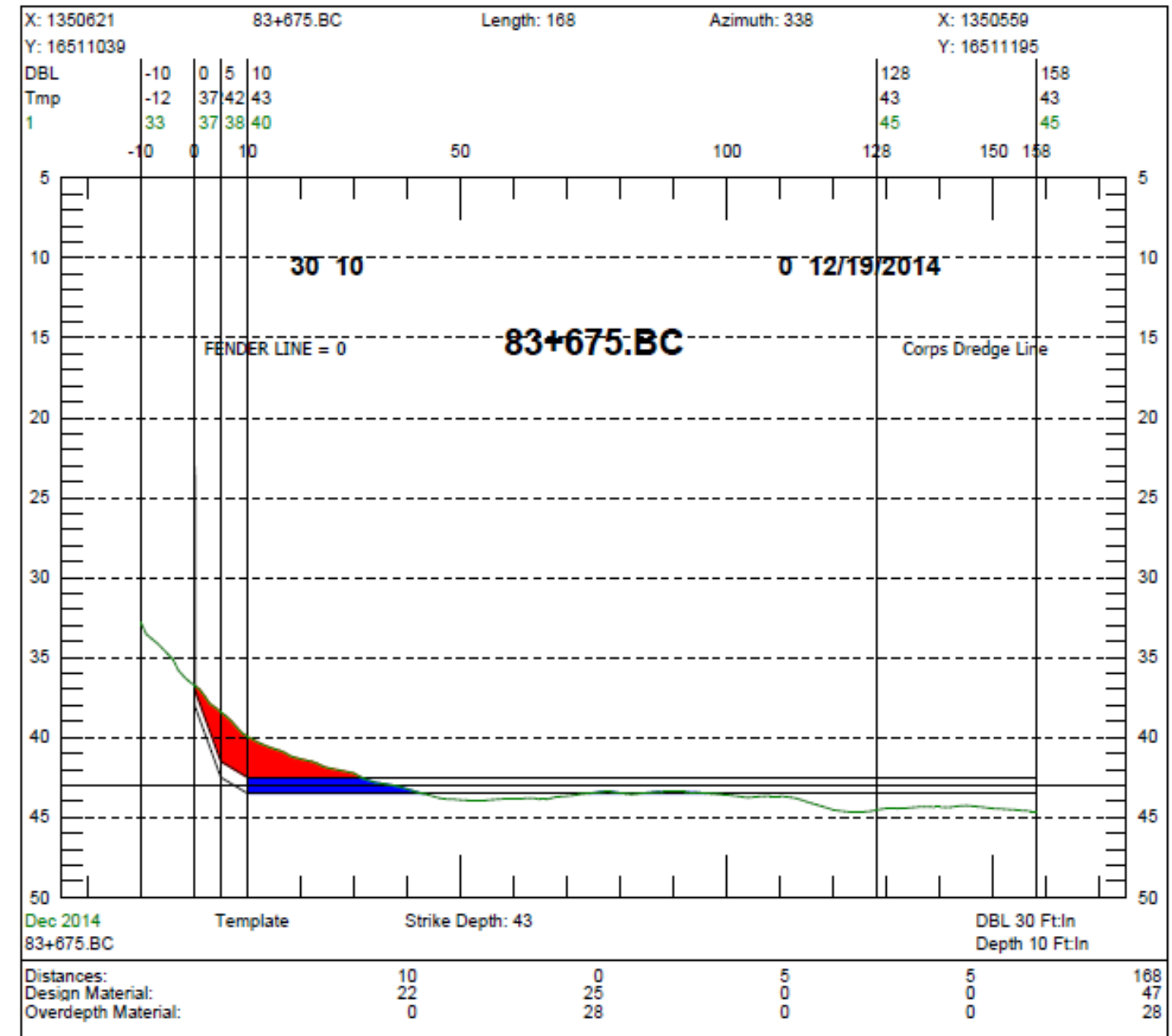
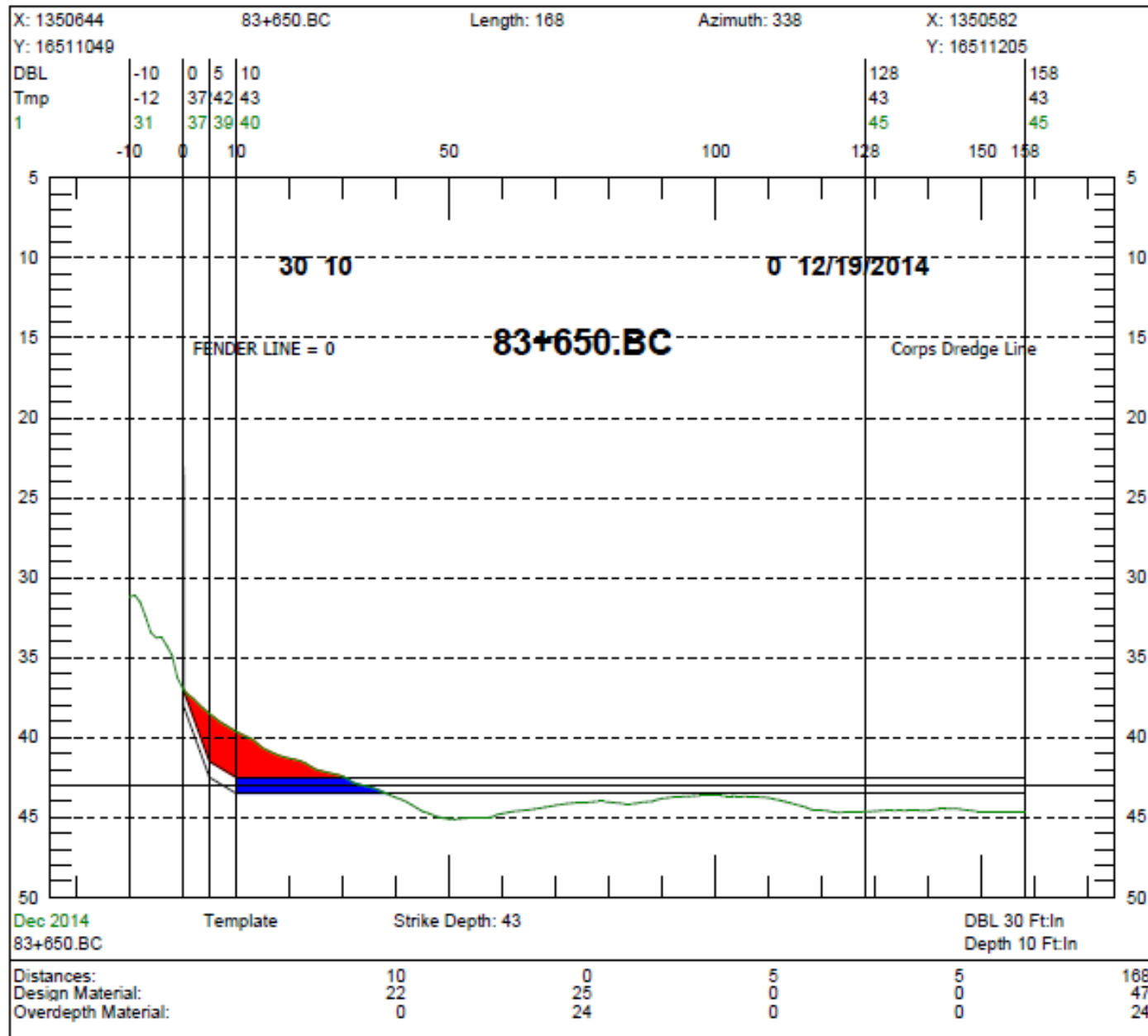
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 DWN. BY: JMN



Sheet 1 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

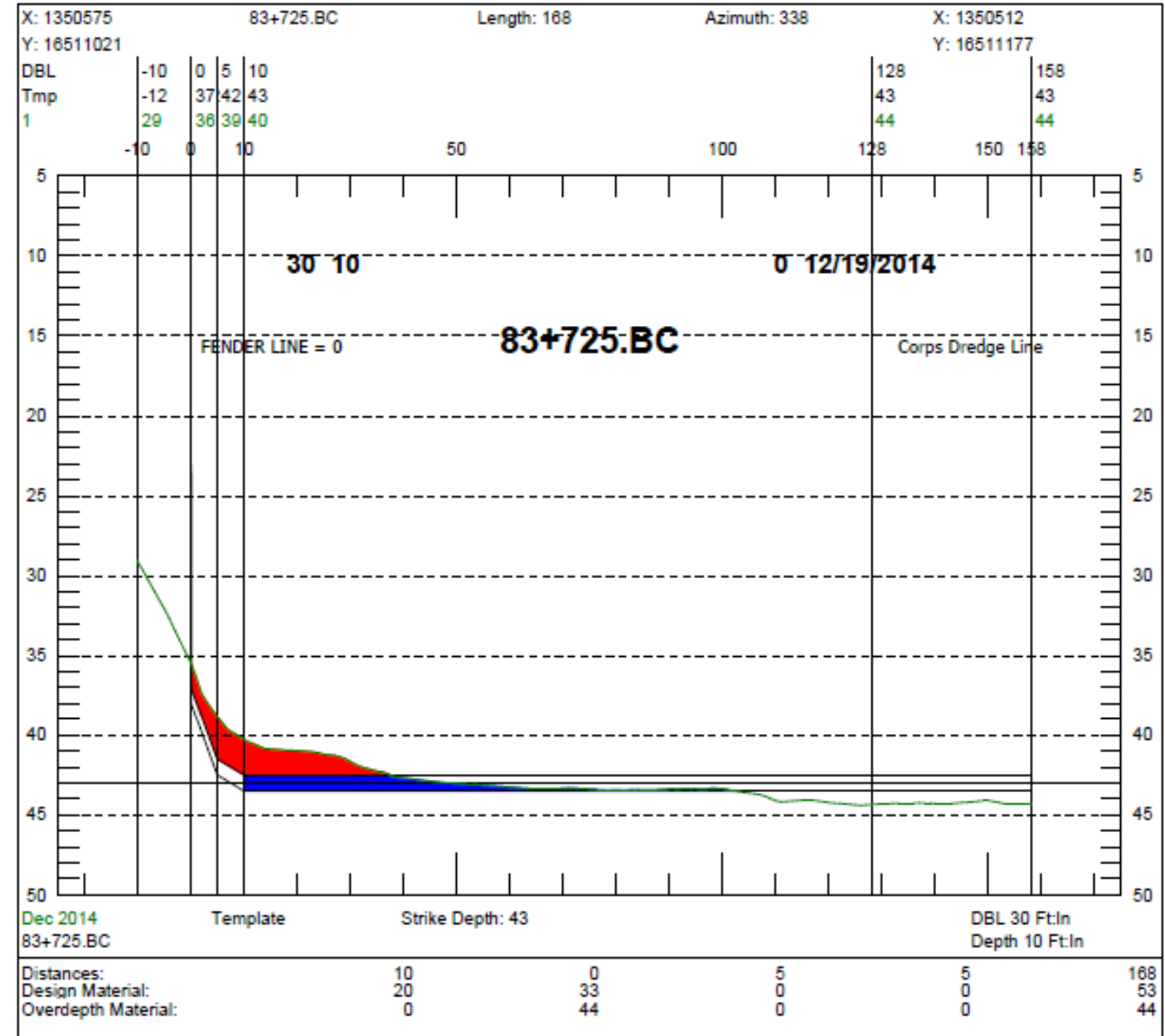
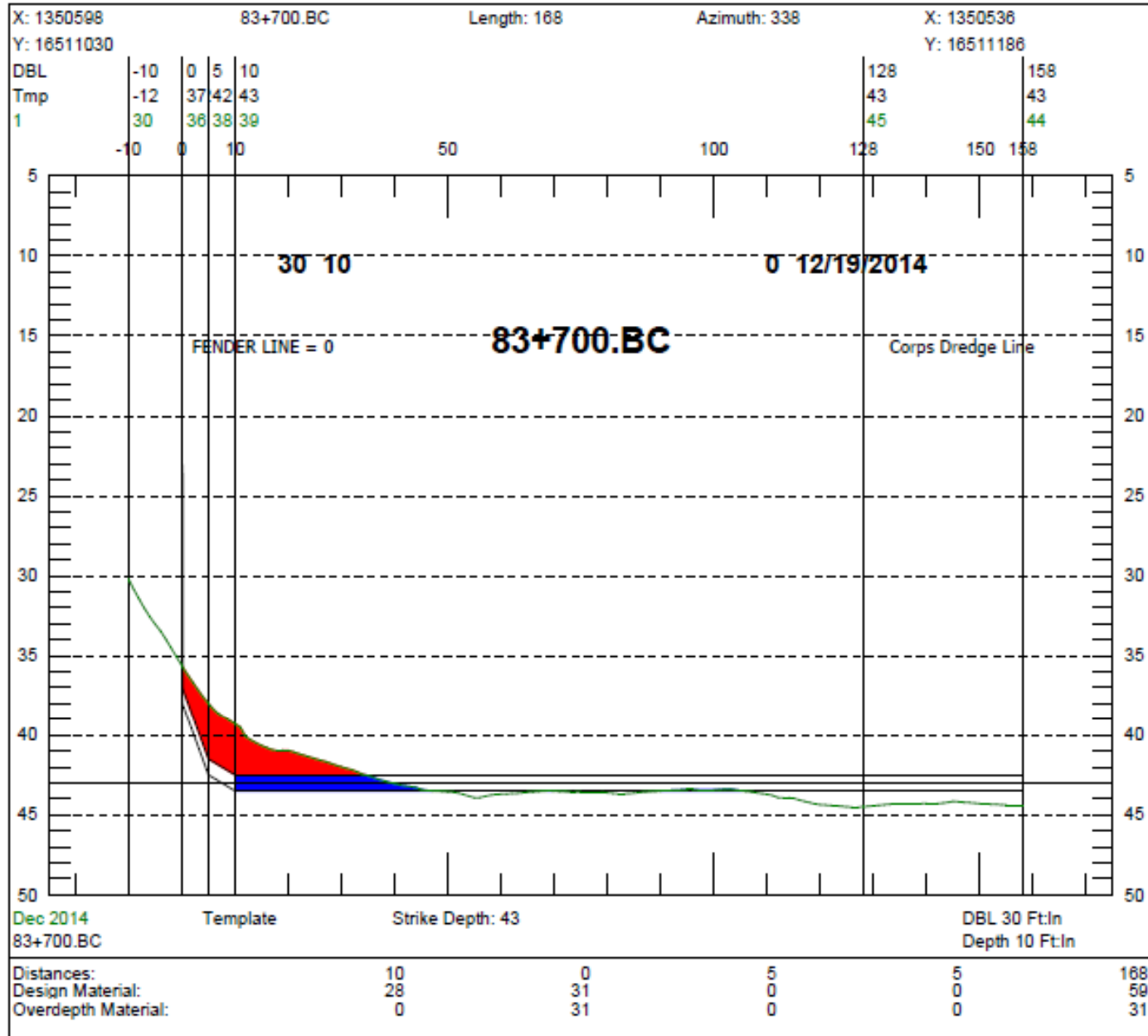


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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



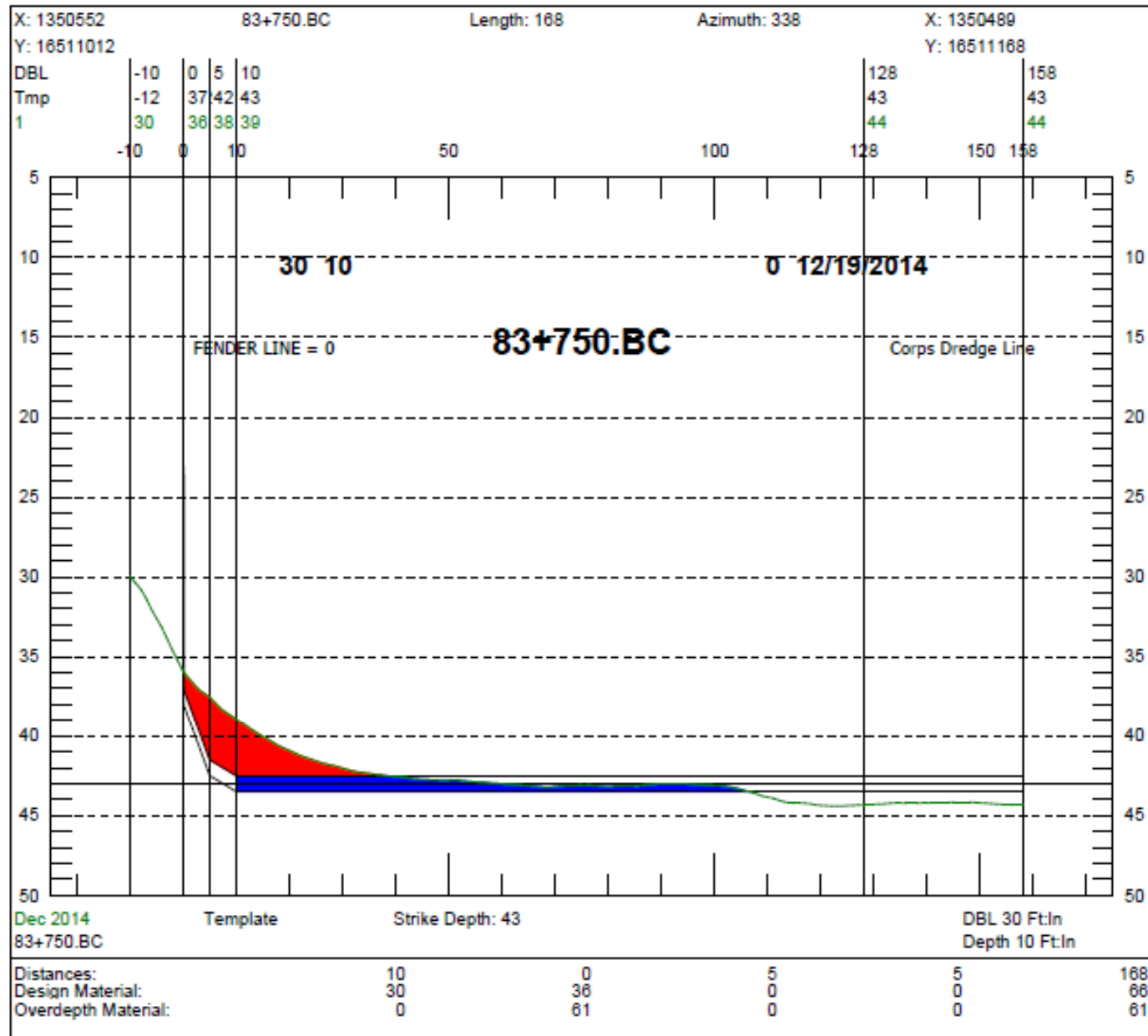
Sheet 3 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 4 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

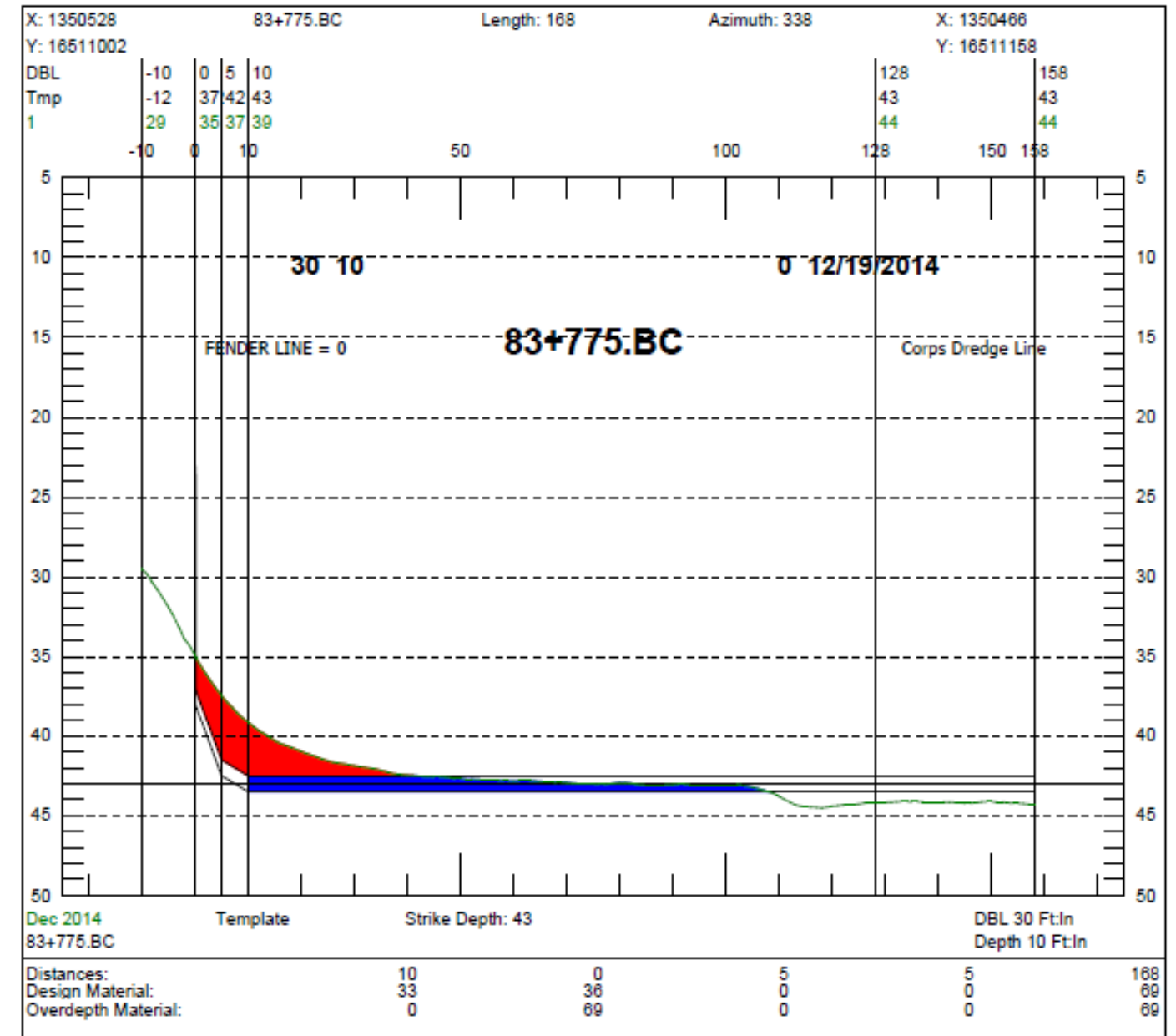


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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

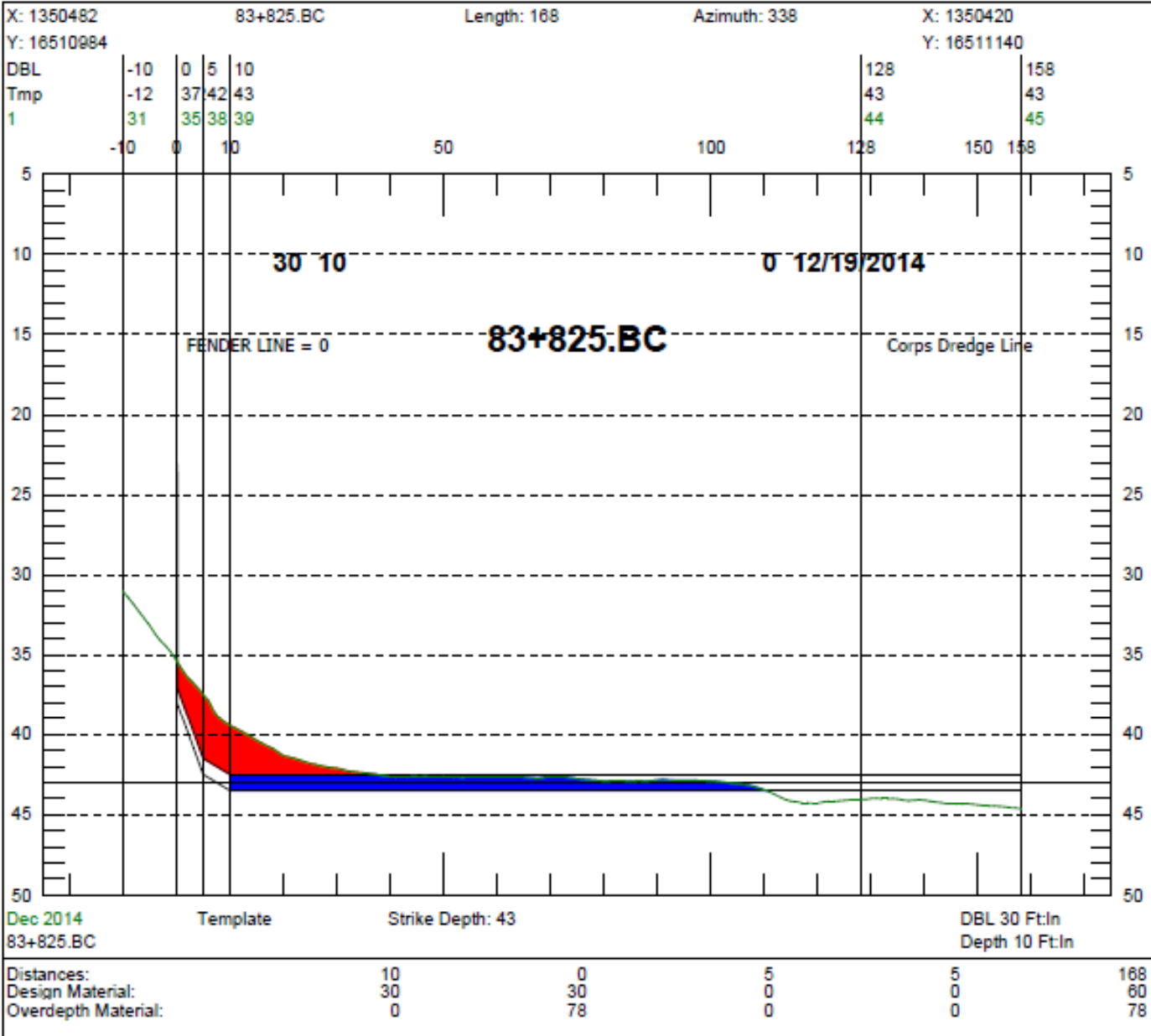
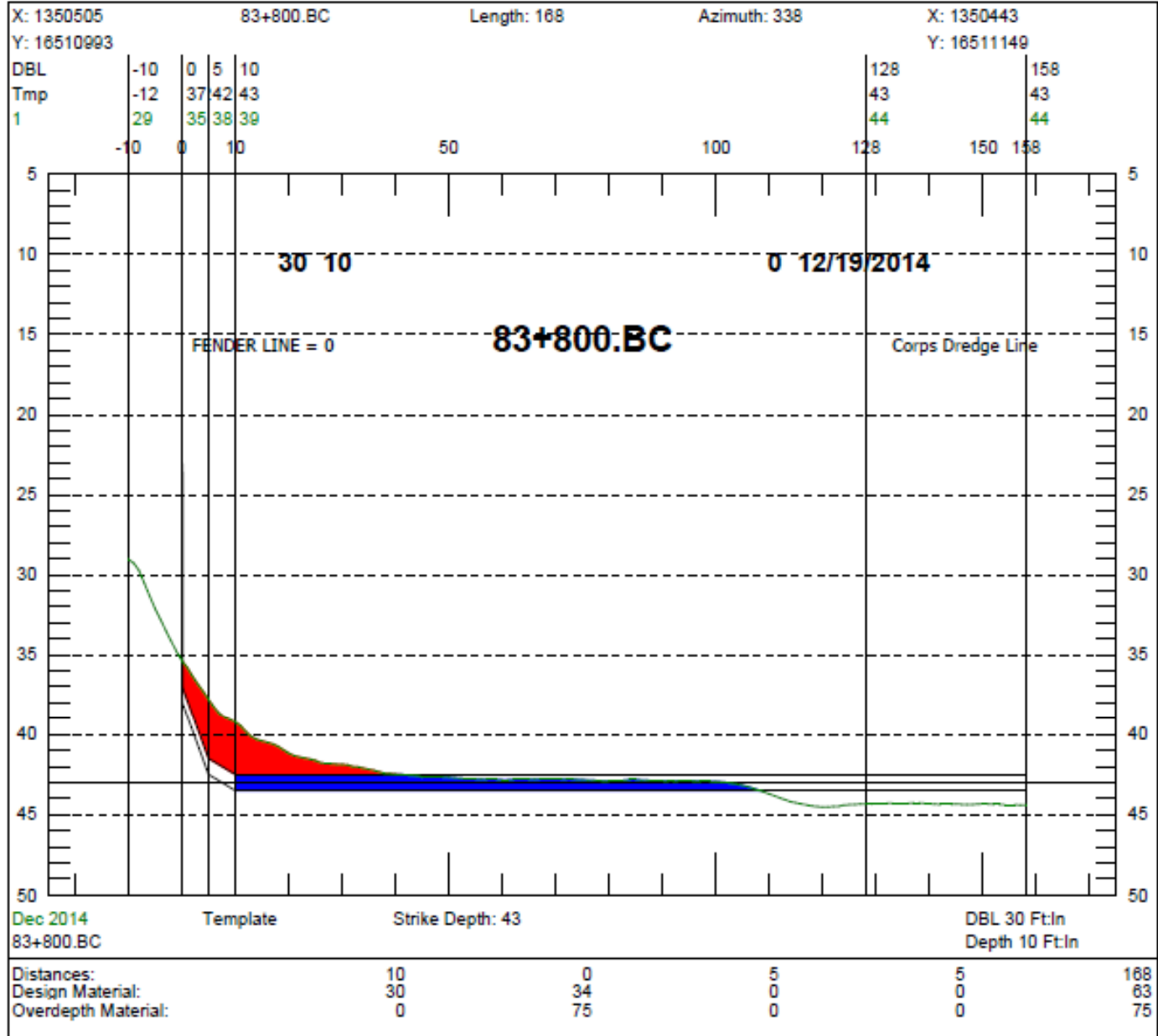
Sheet 6 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 7 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

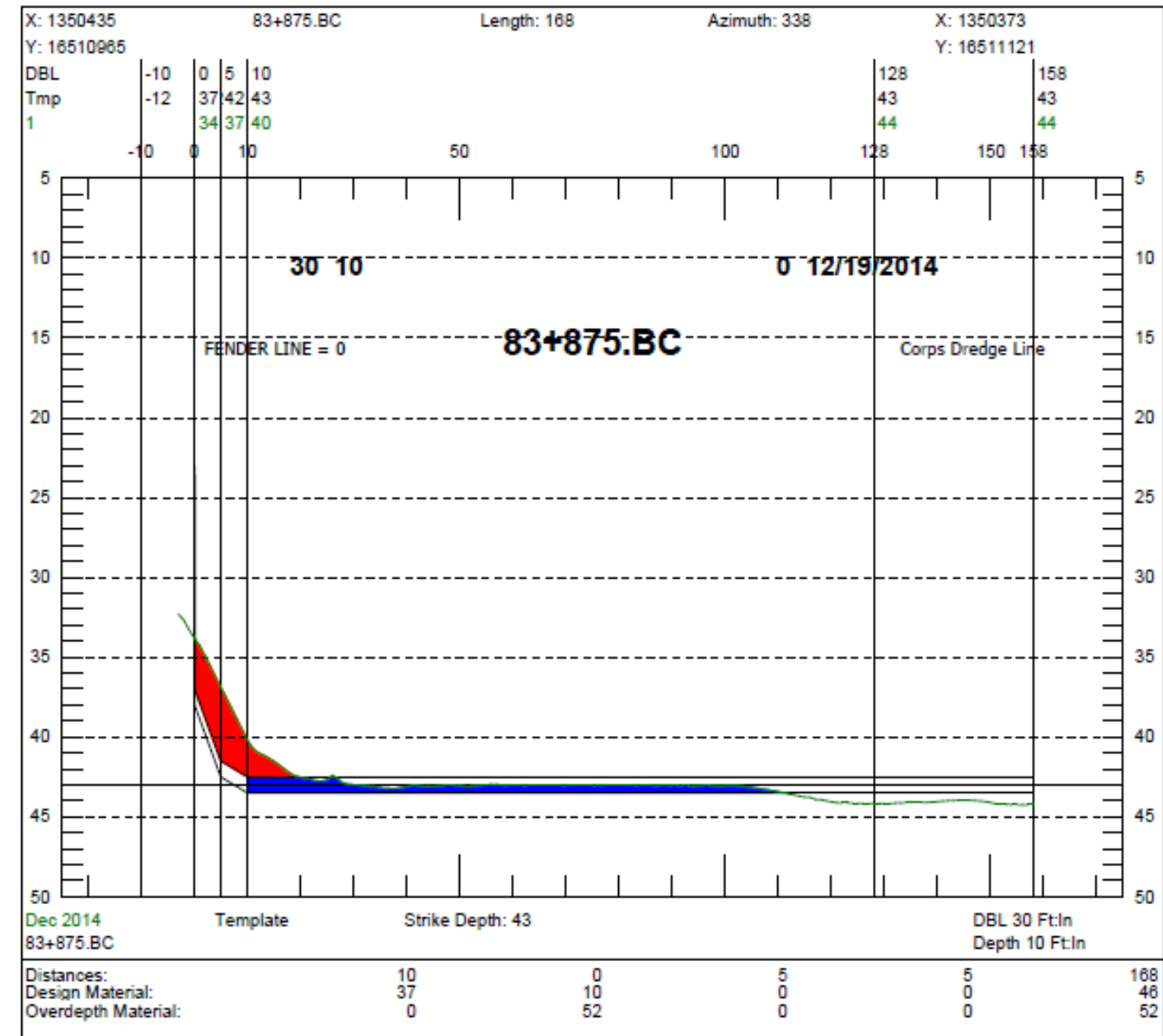
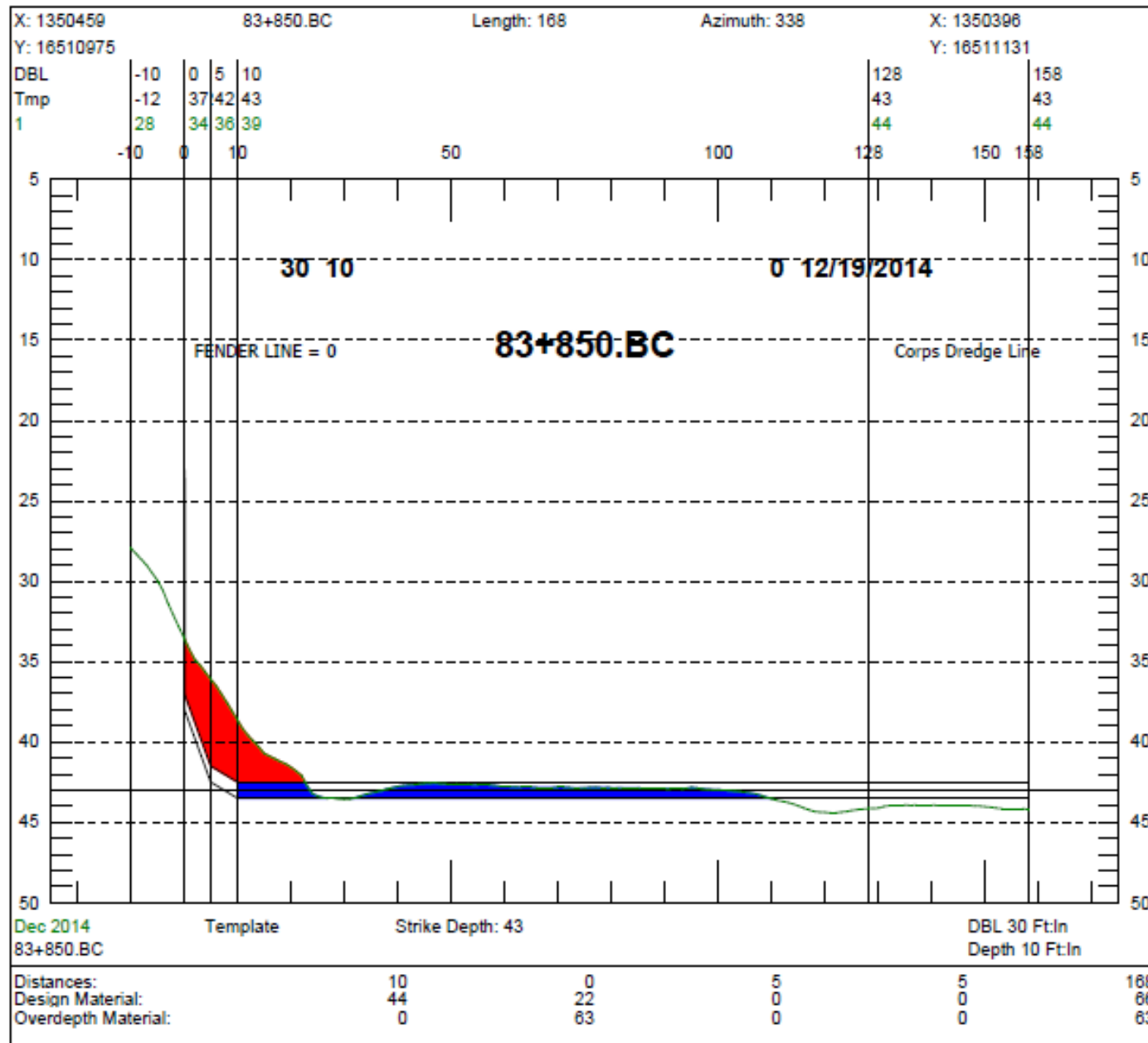


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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 9 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

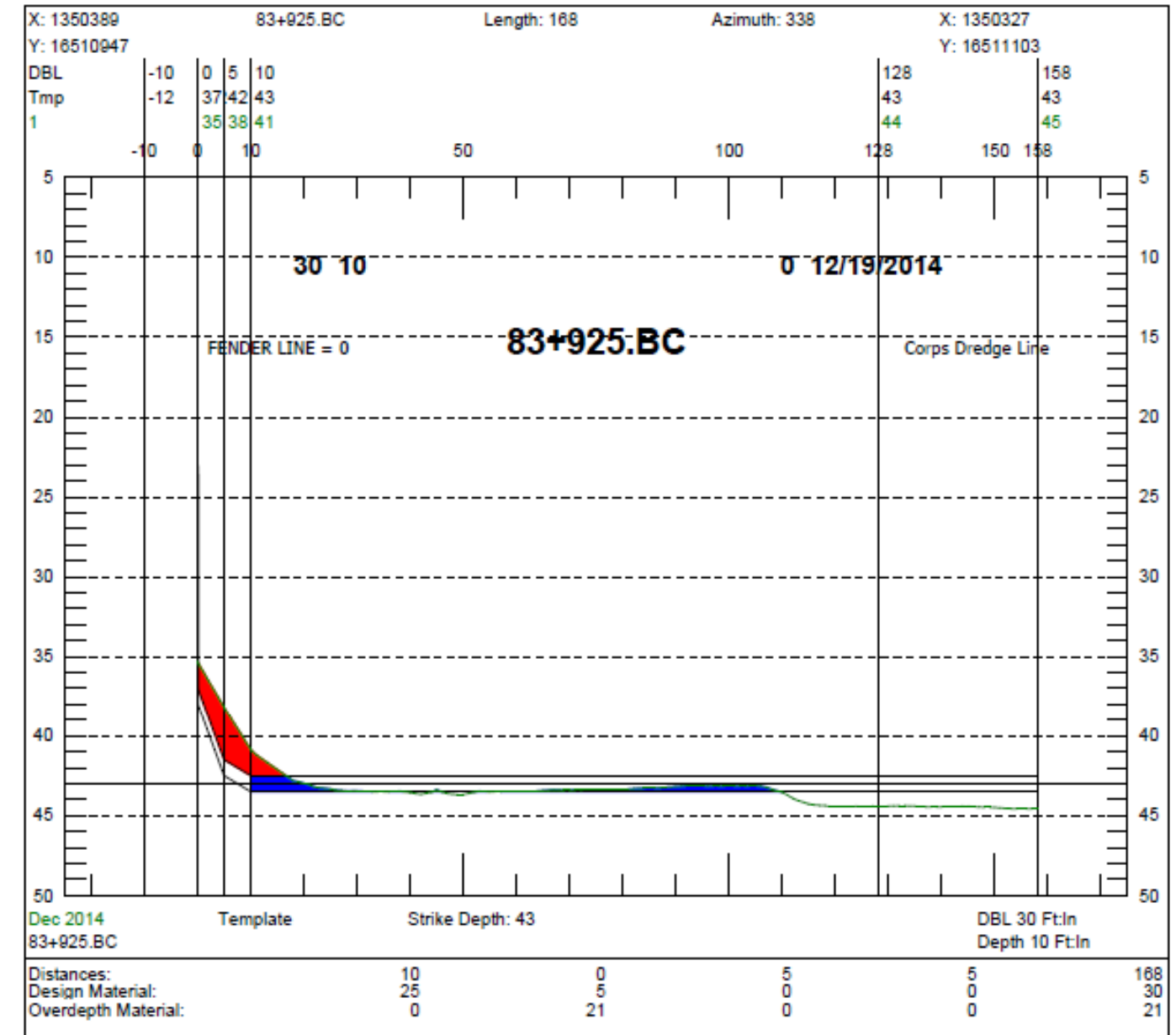
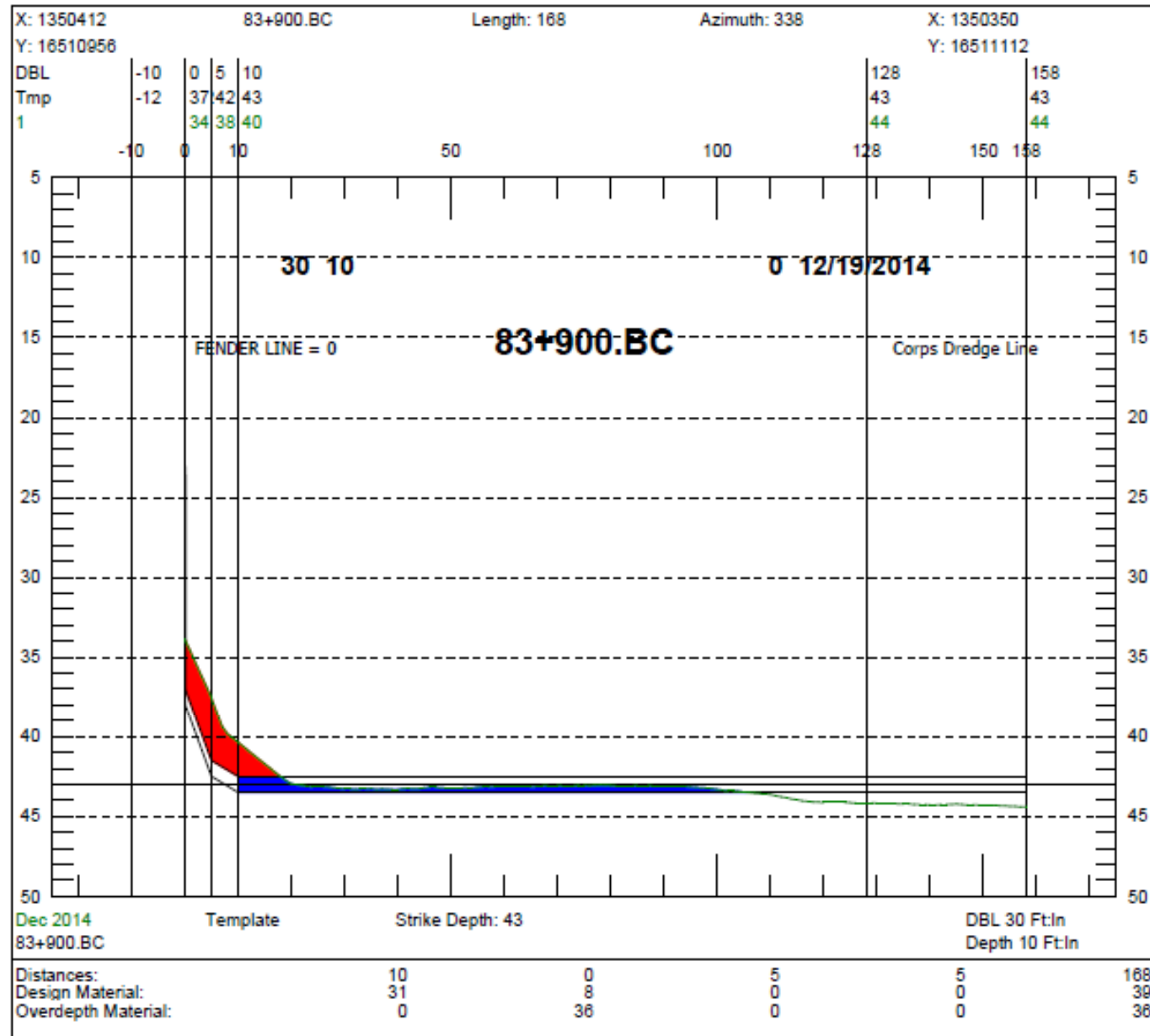
Sheet 10 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 11 Of 38	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

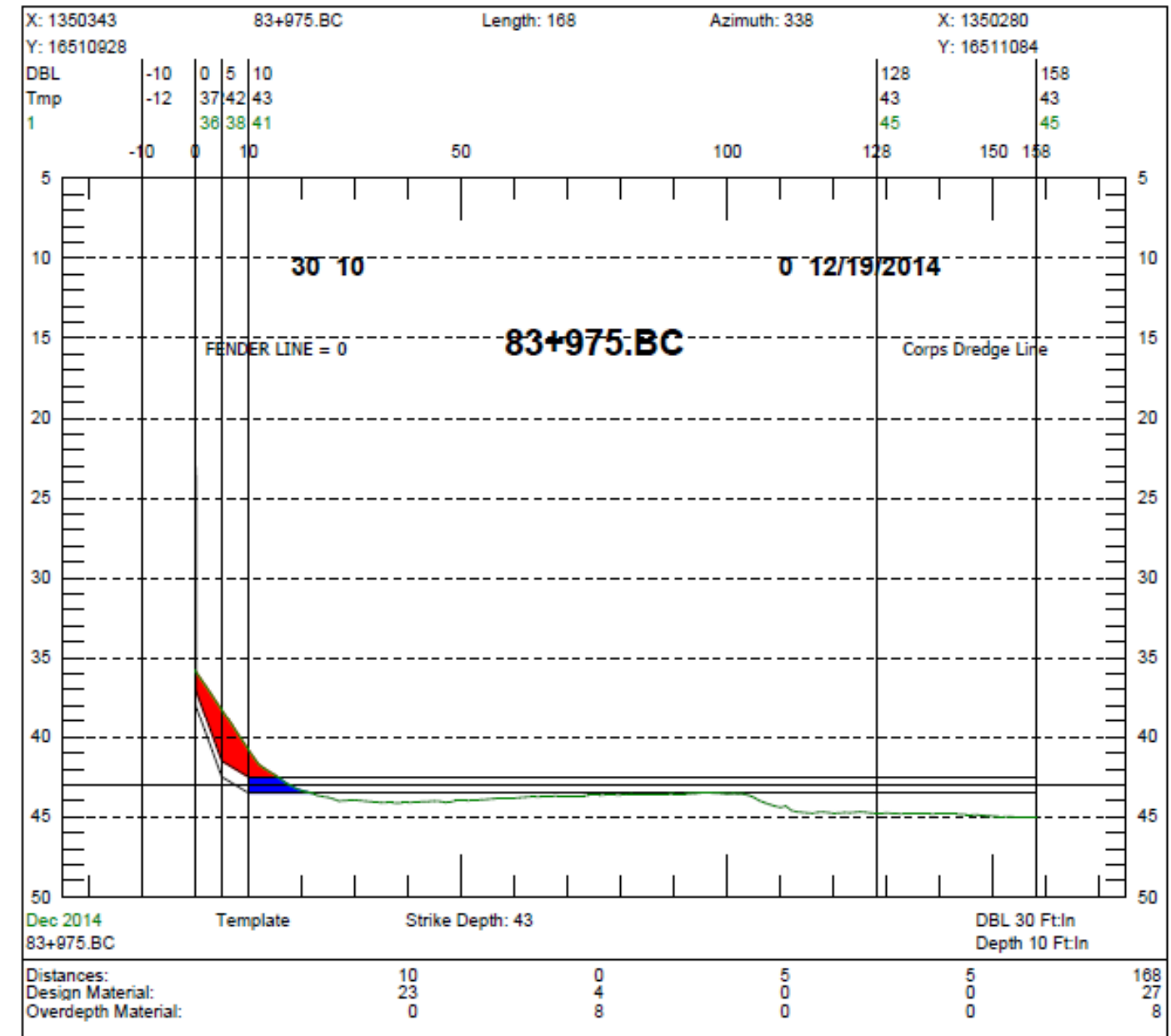
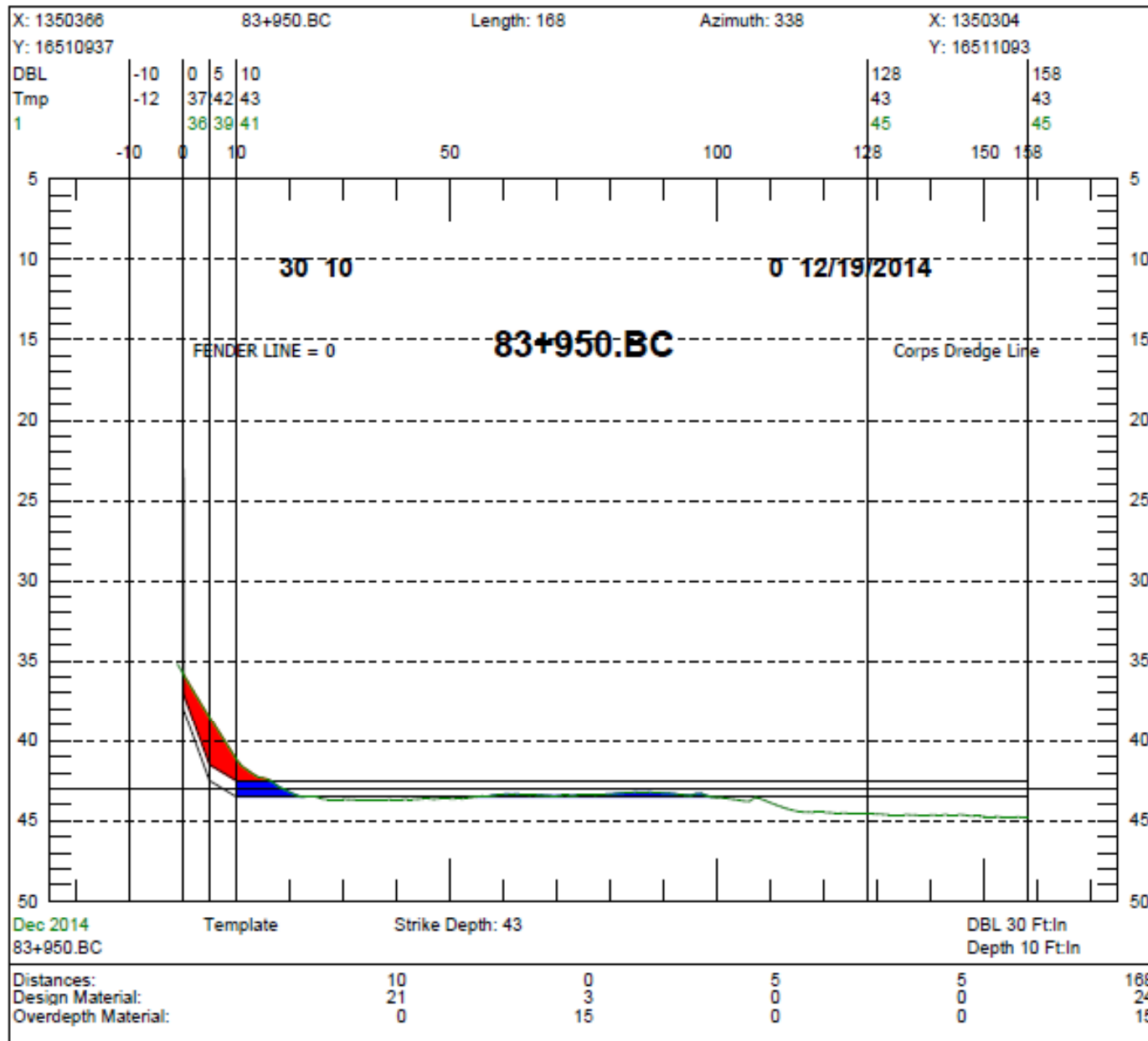
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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	





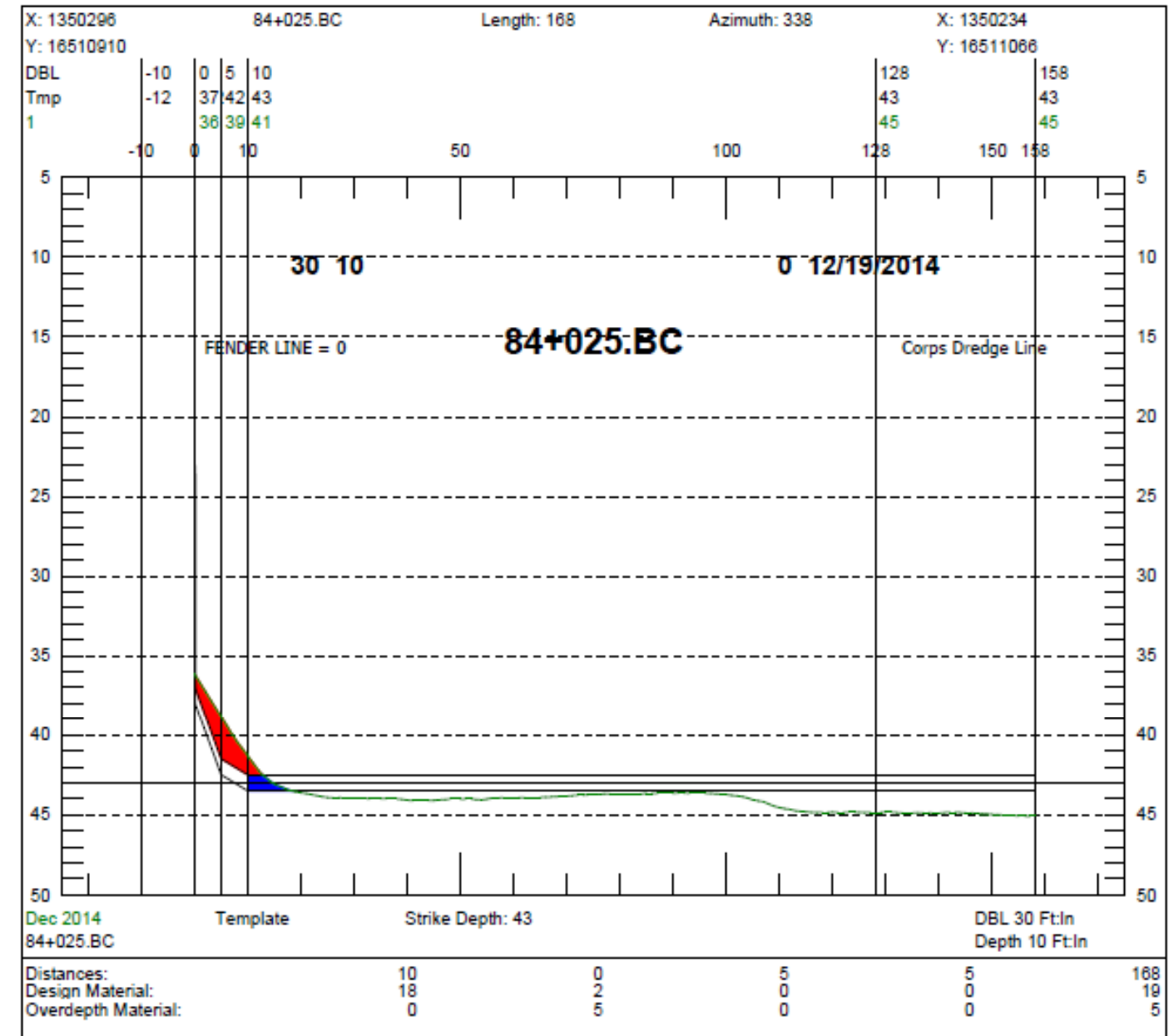
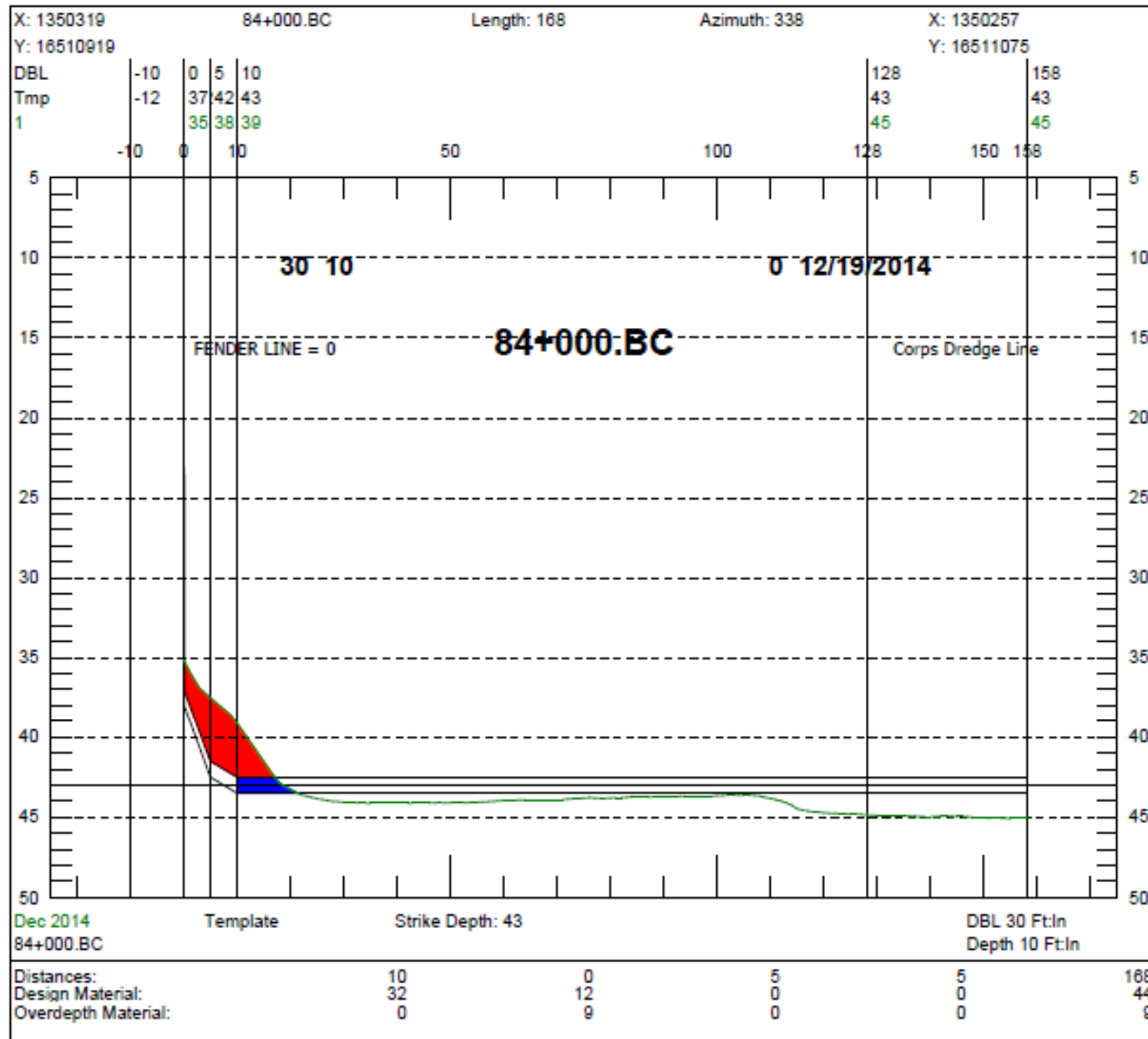
Sheet 13 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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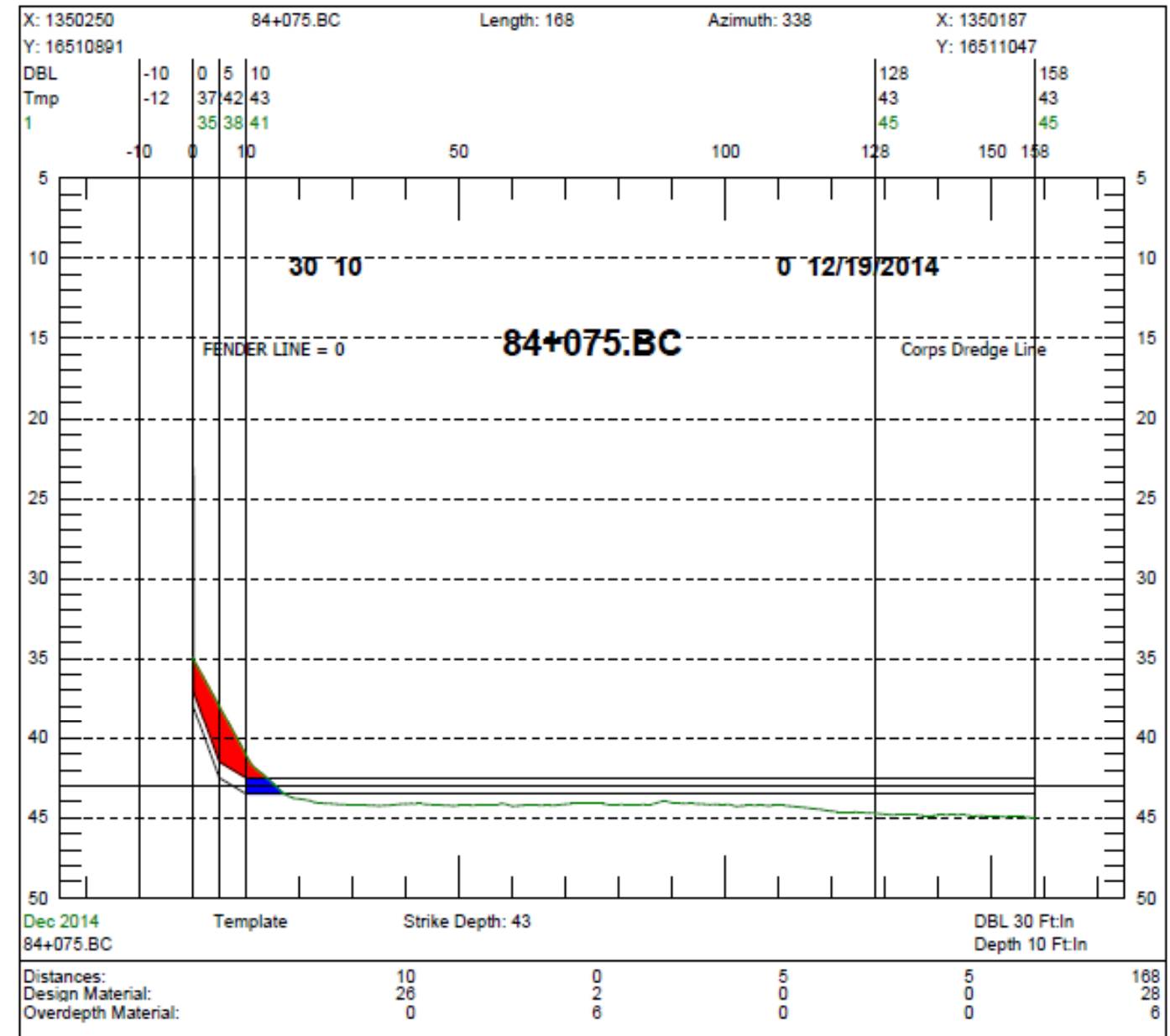
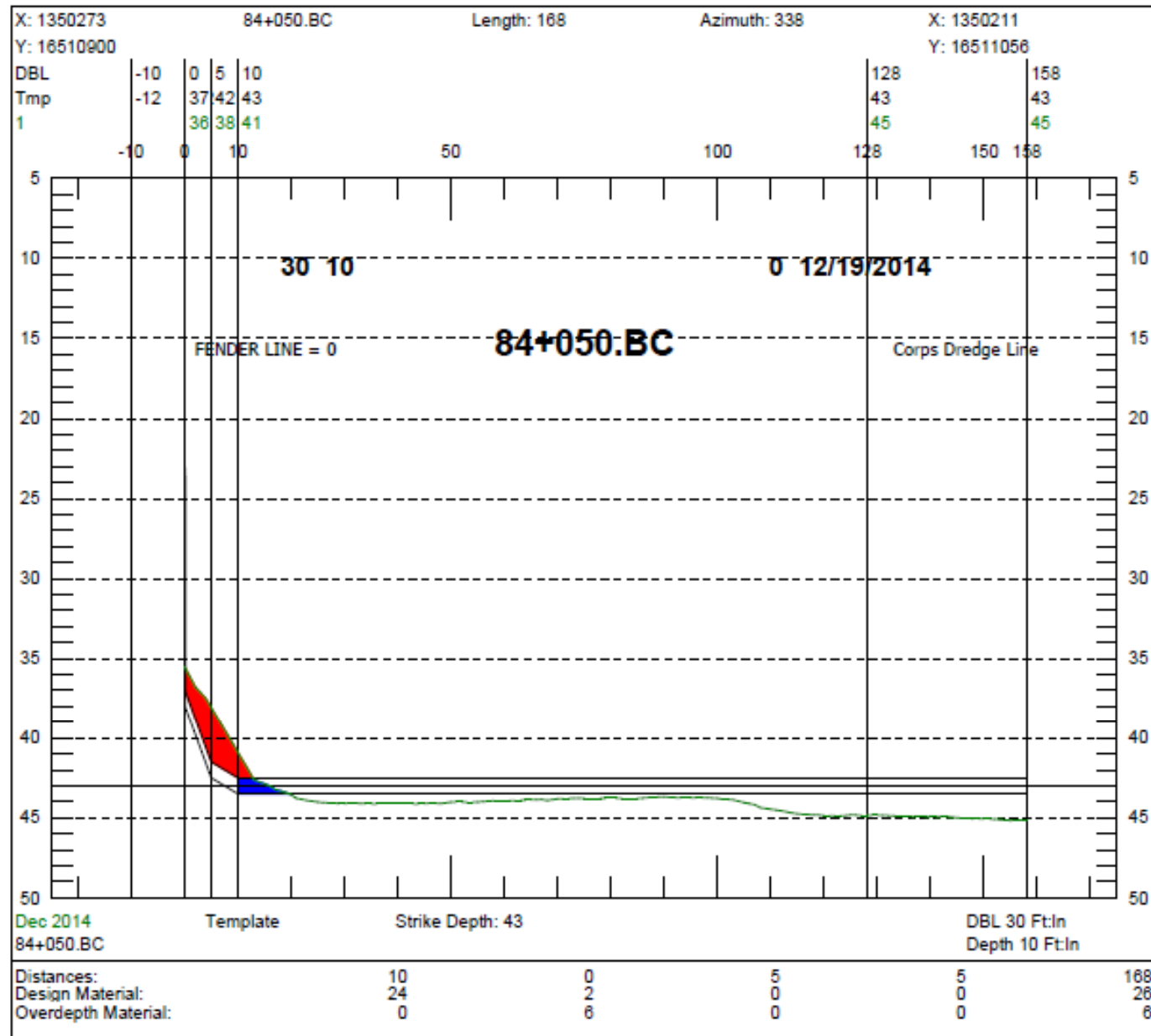
Sheet 15 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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Sheet 16 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



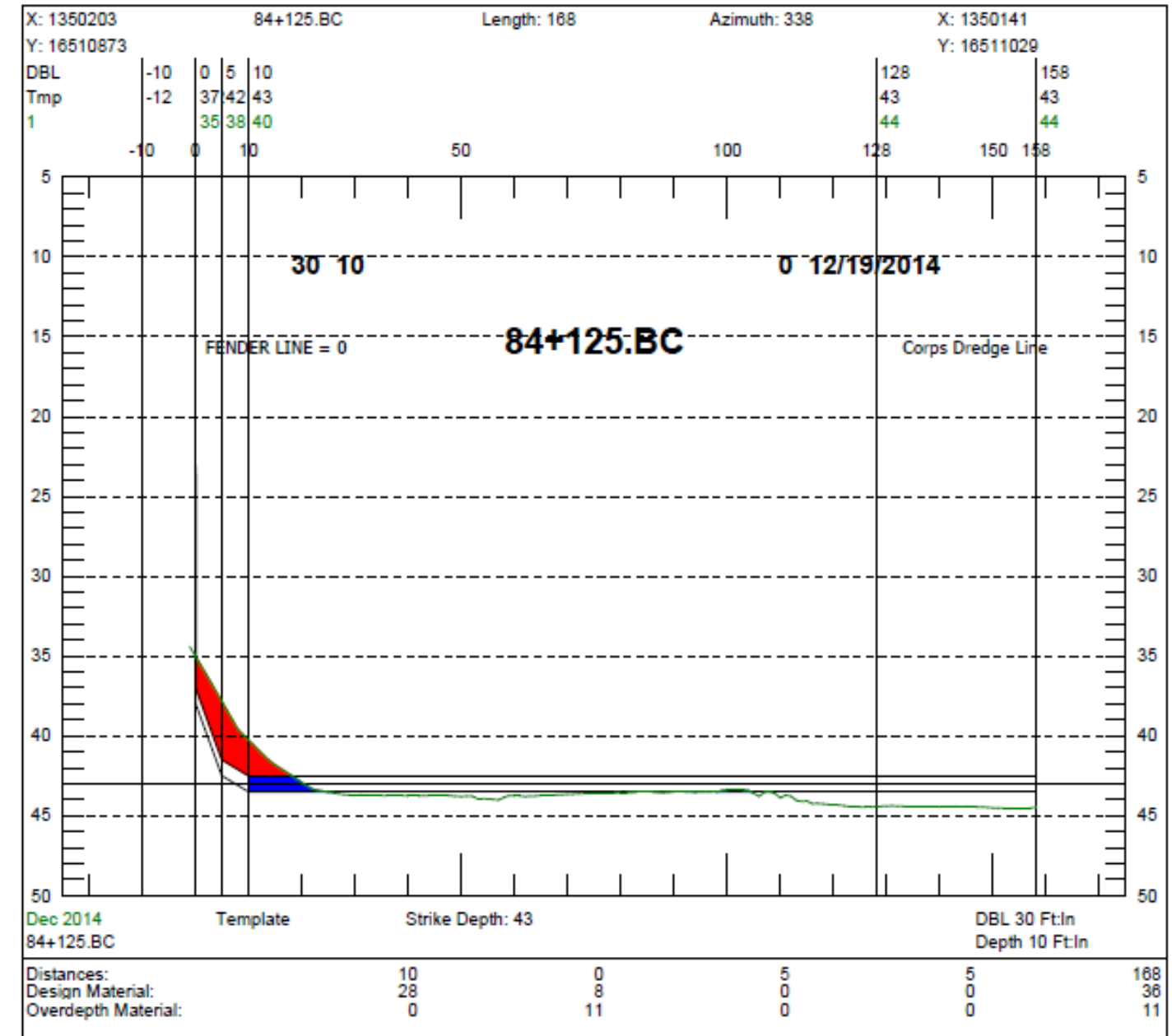
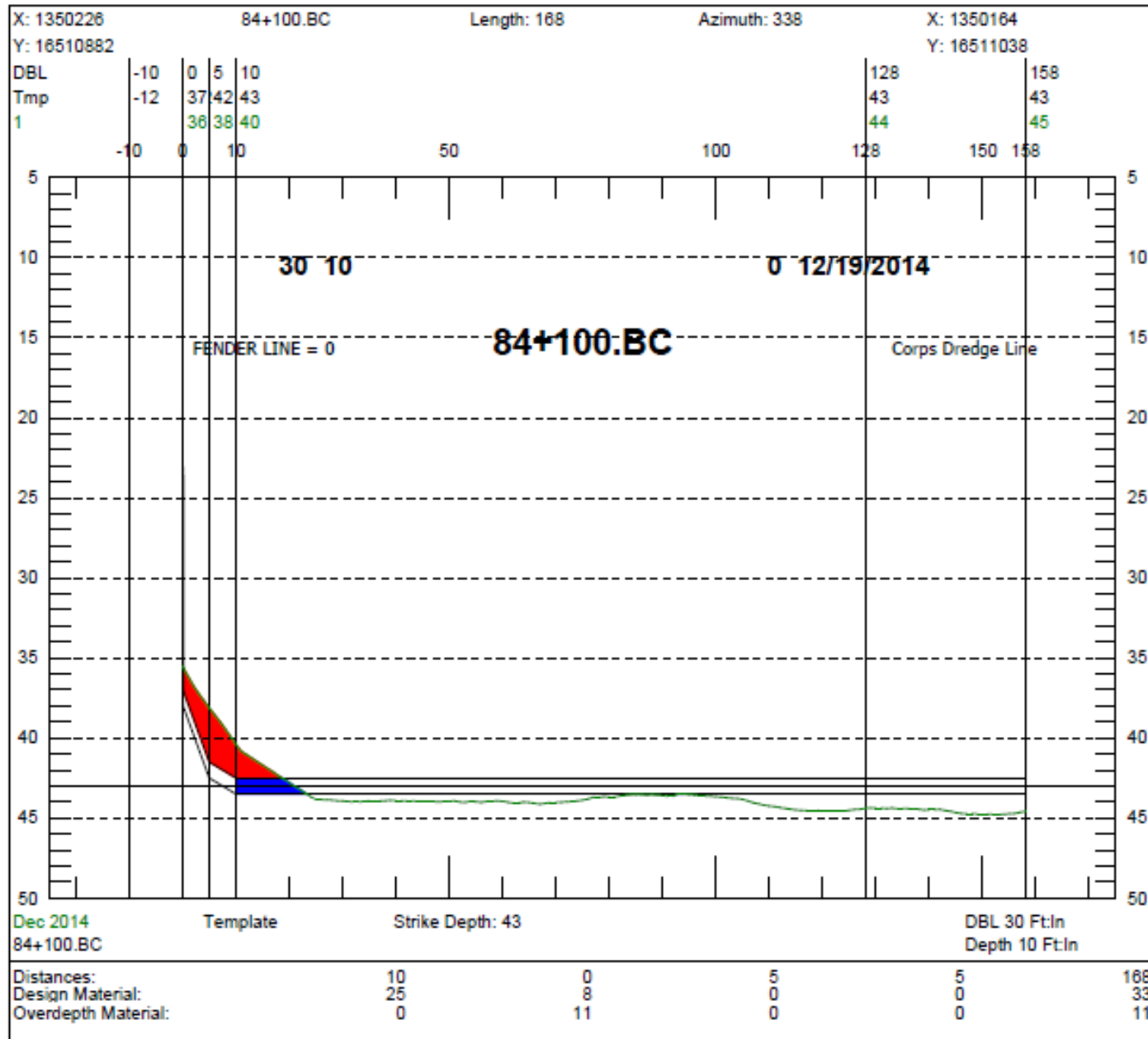
Sheet 17 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



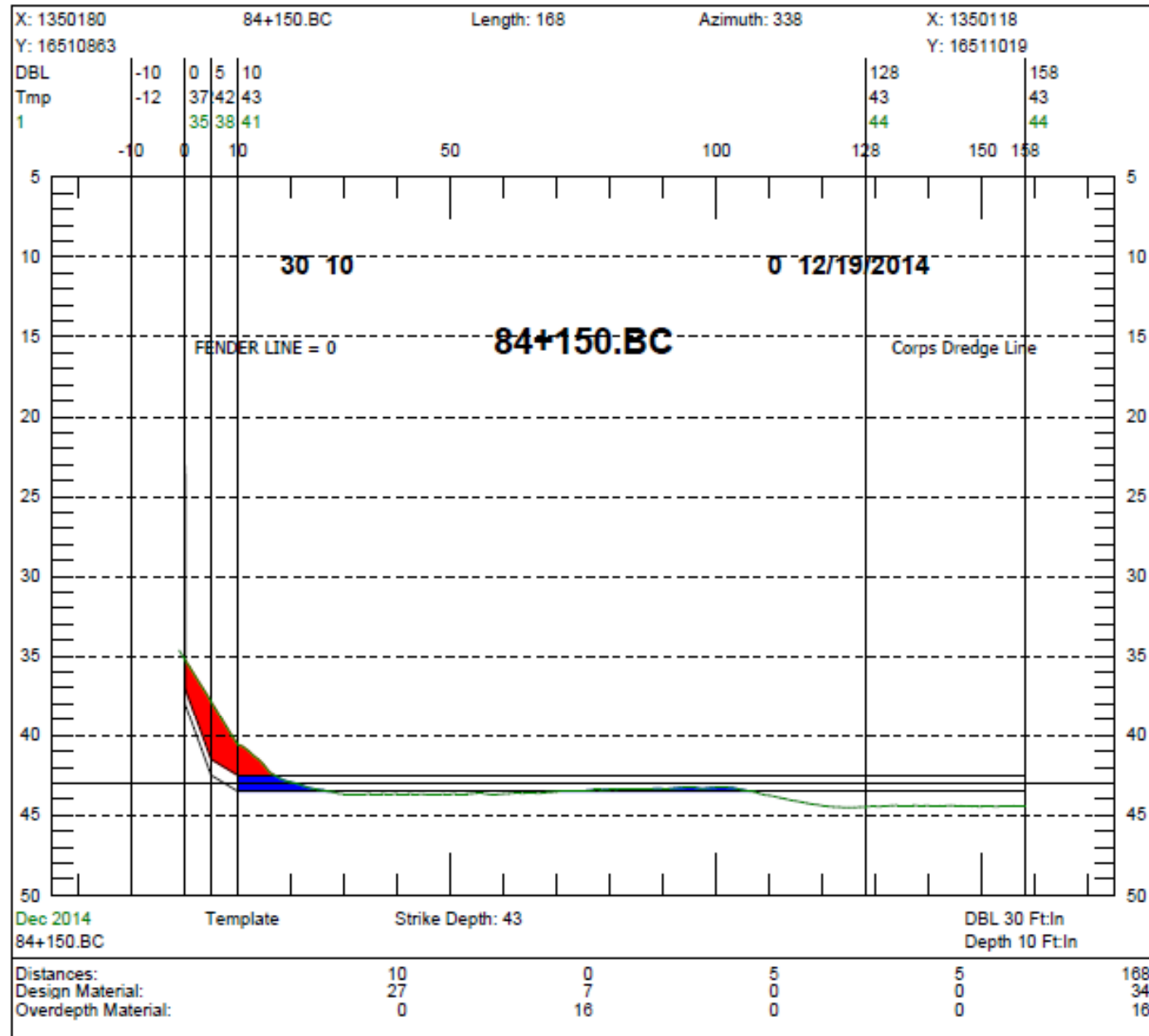
Sheet 19 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

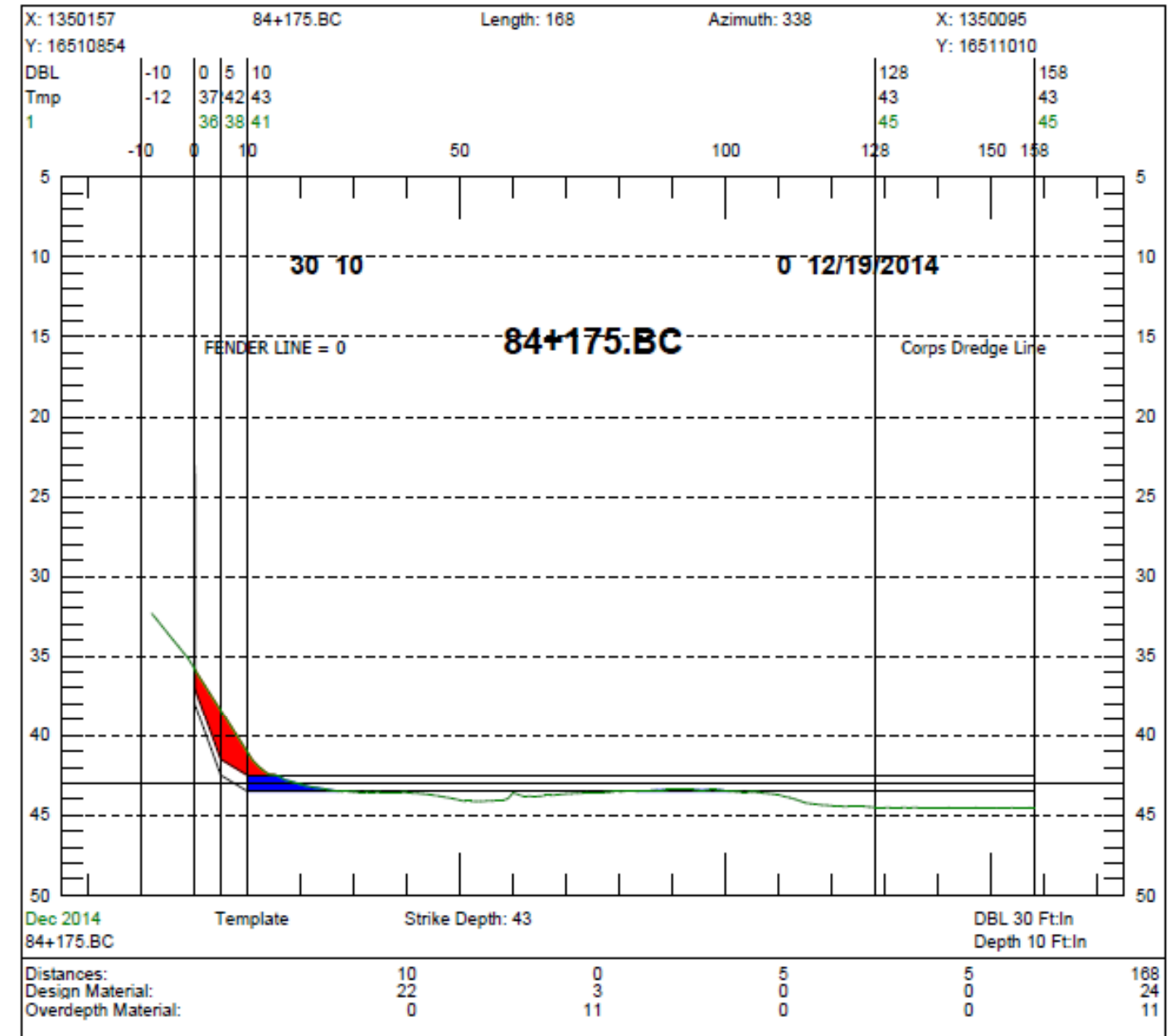


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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

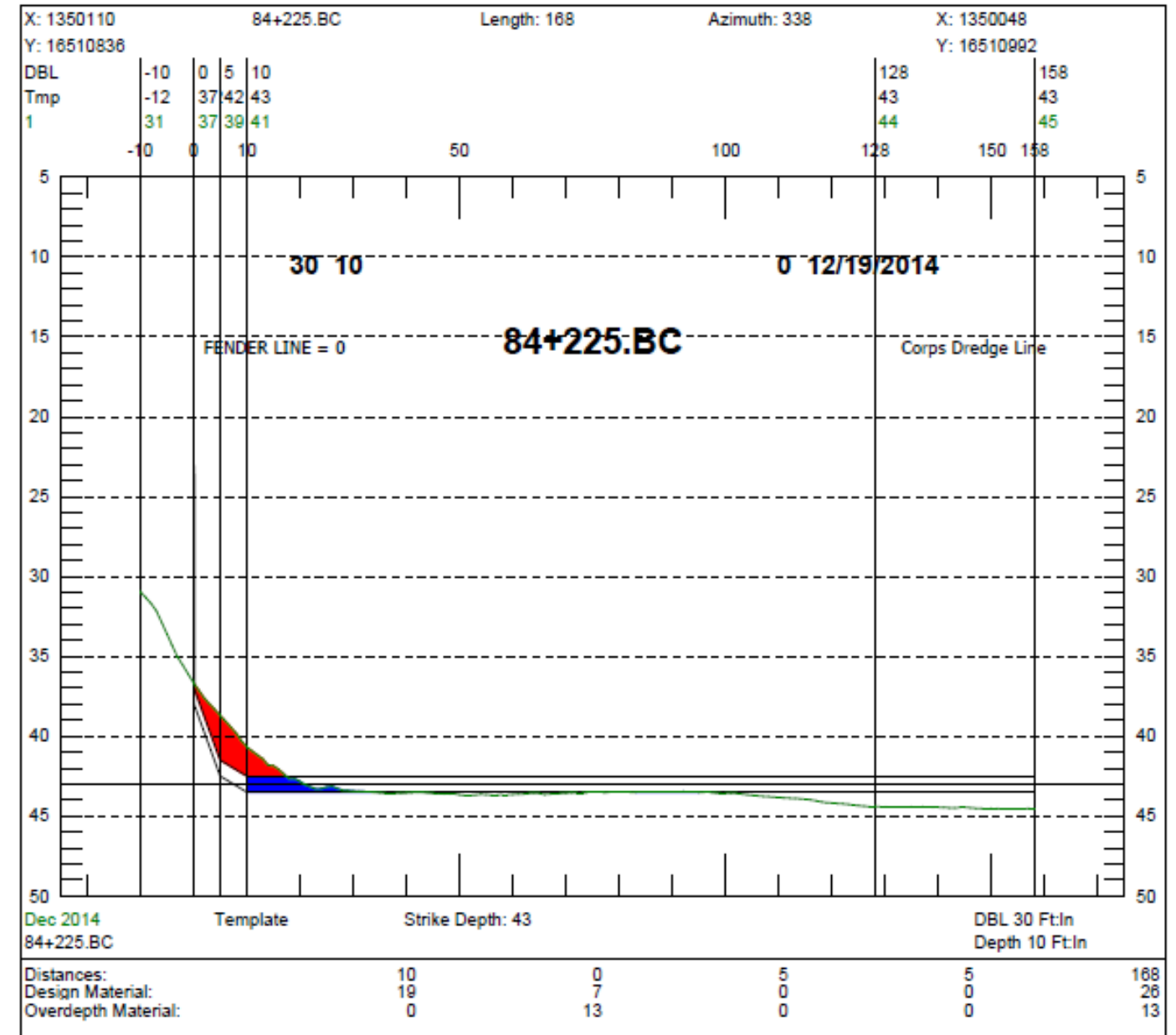
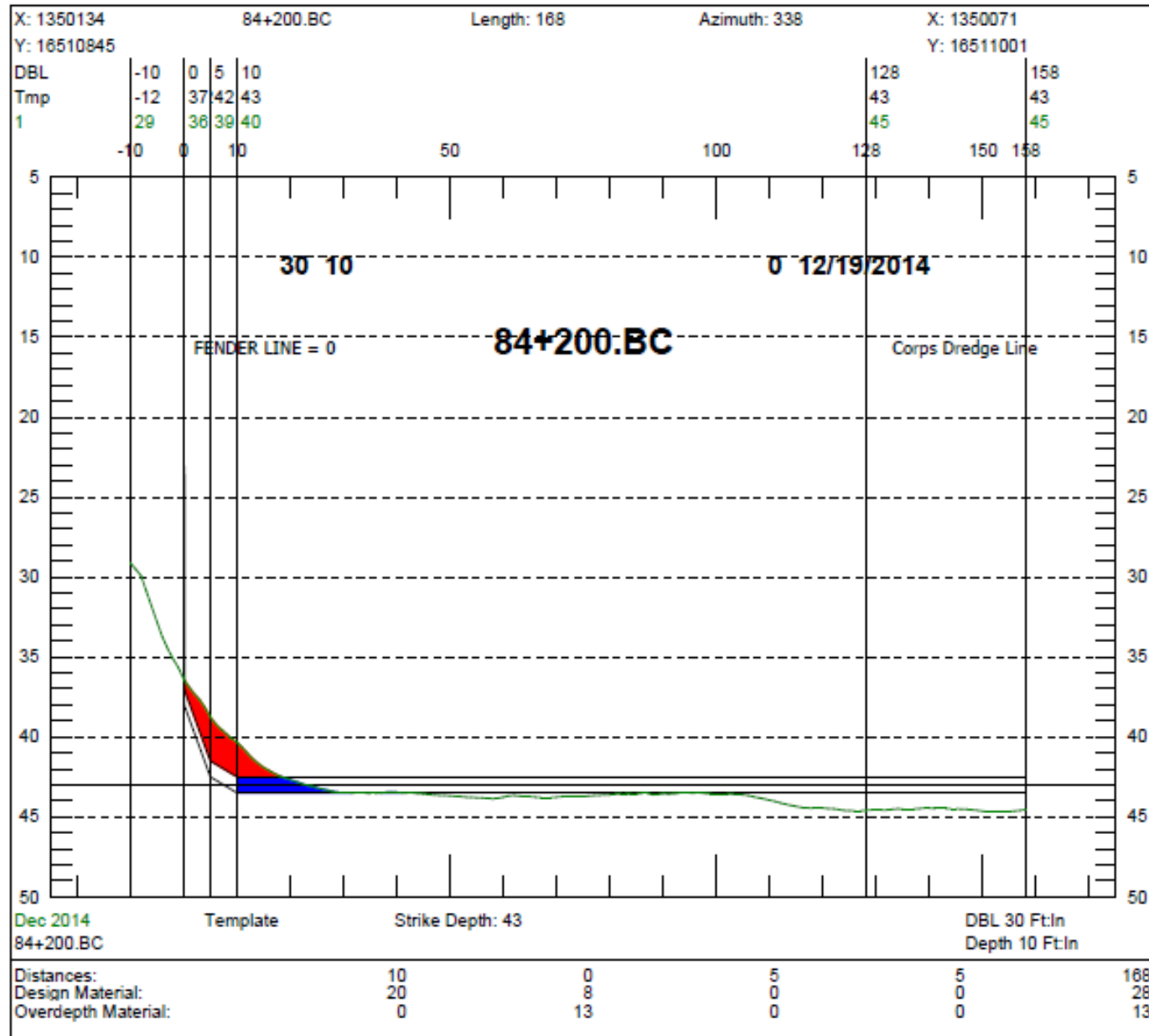
Sheet 22 Of 38	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 23 Of 38	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

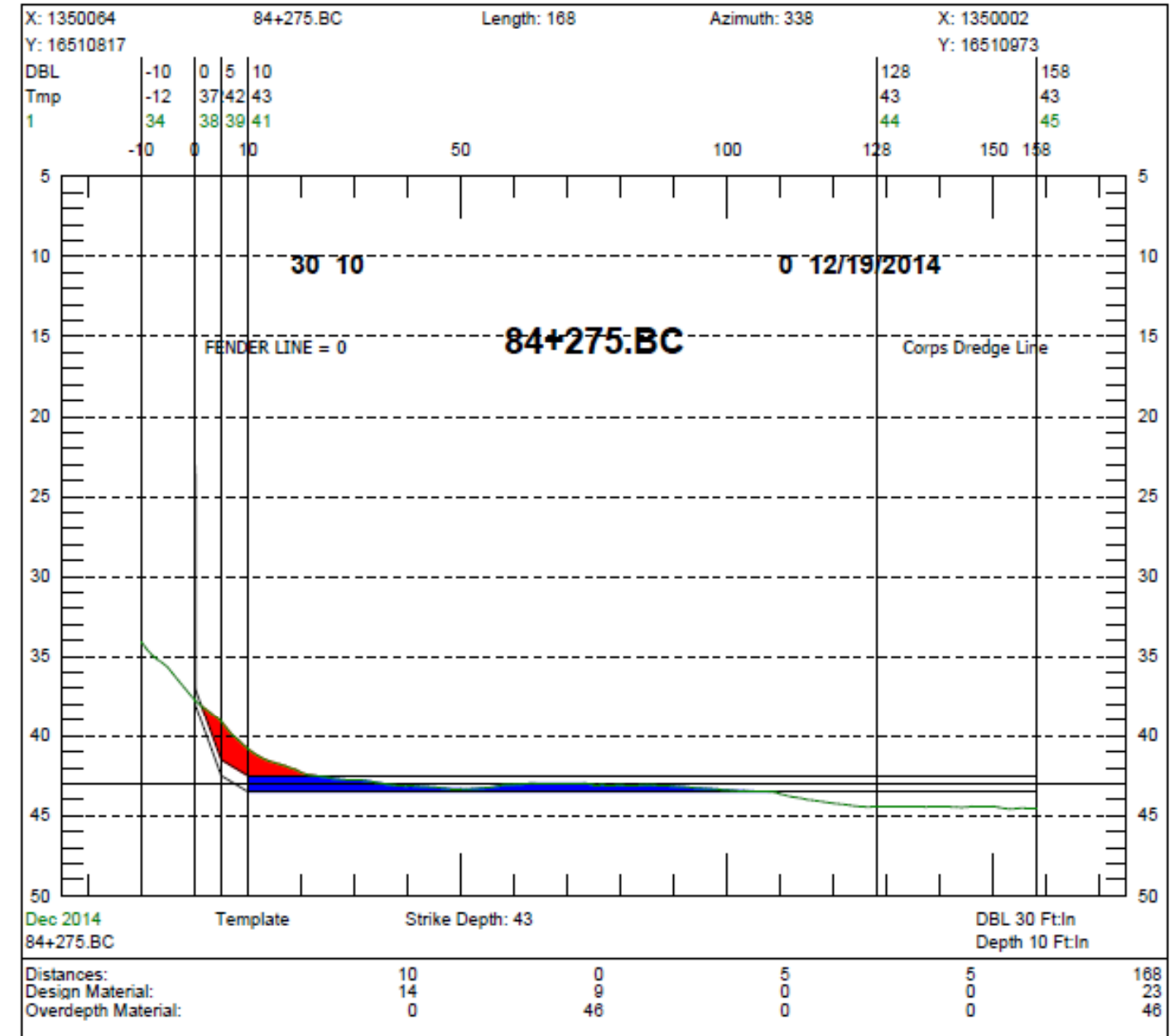
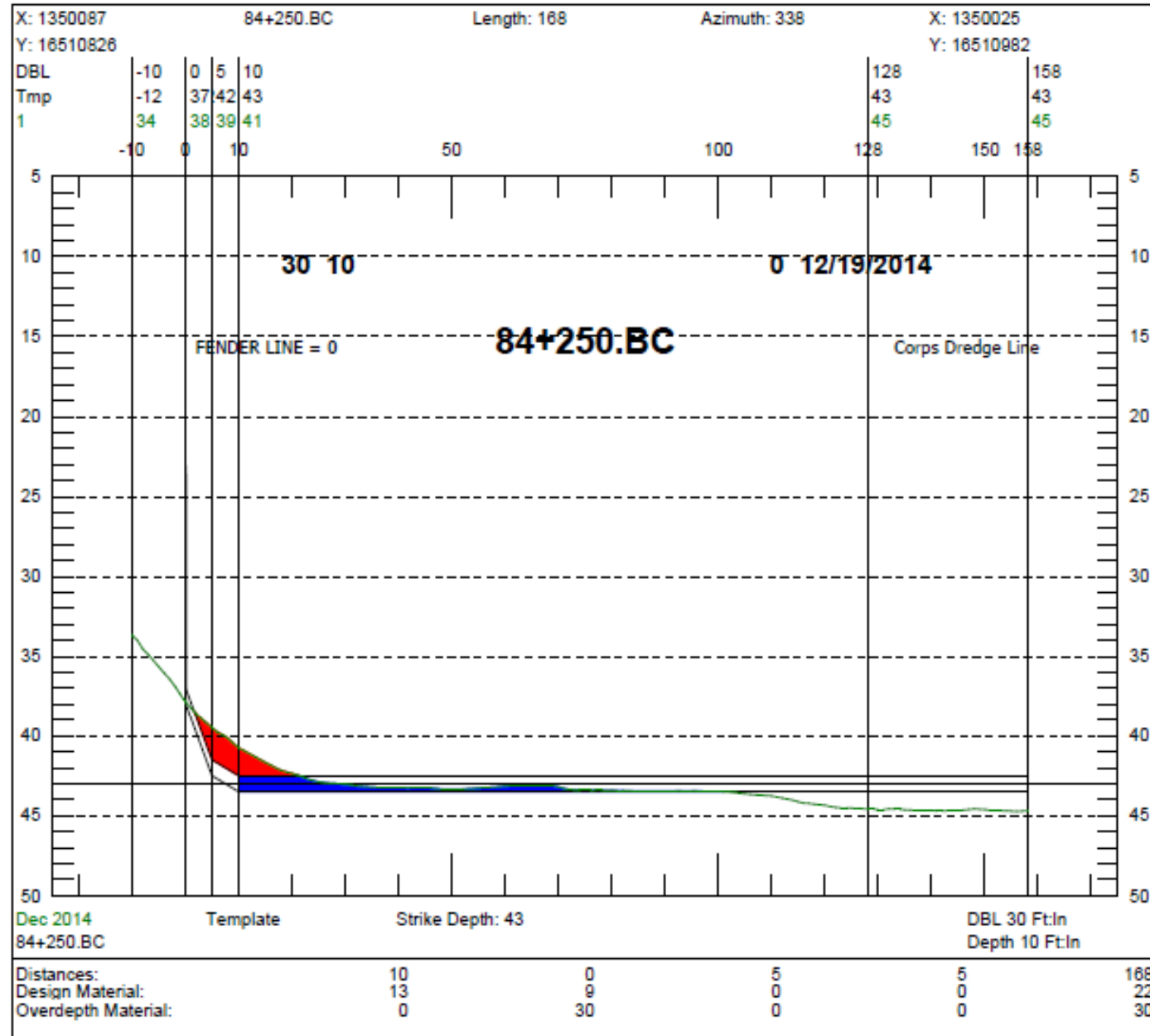


Sheet 24 Of 38	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 25 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

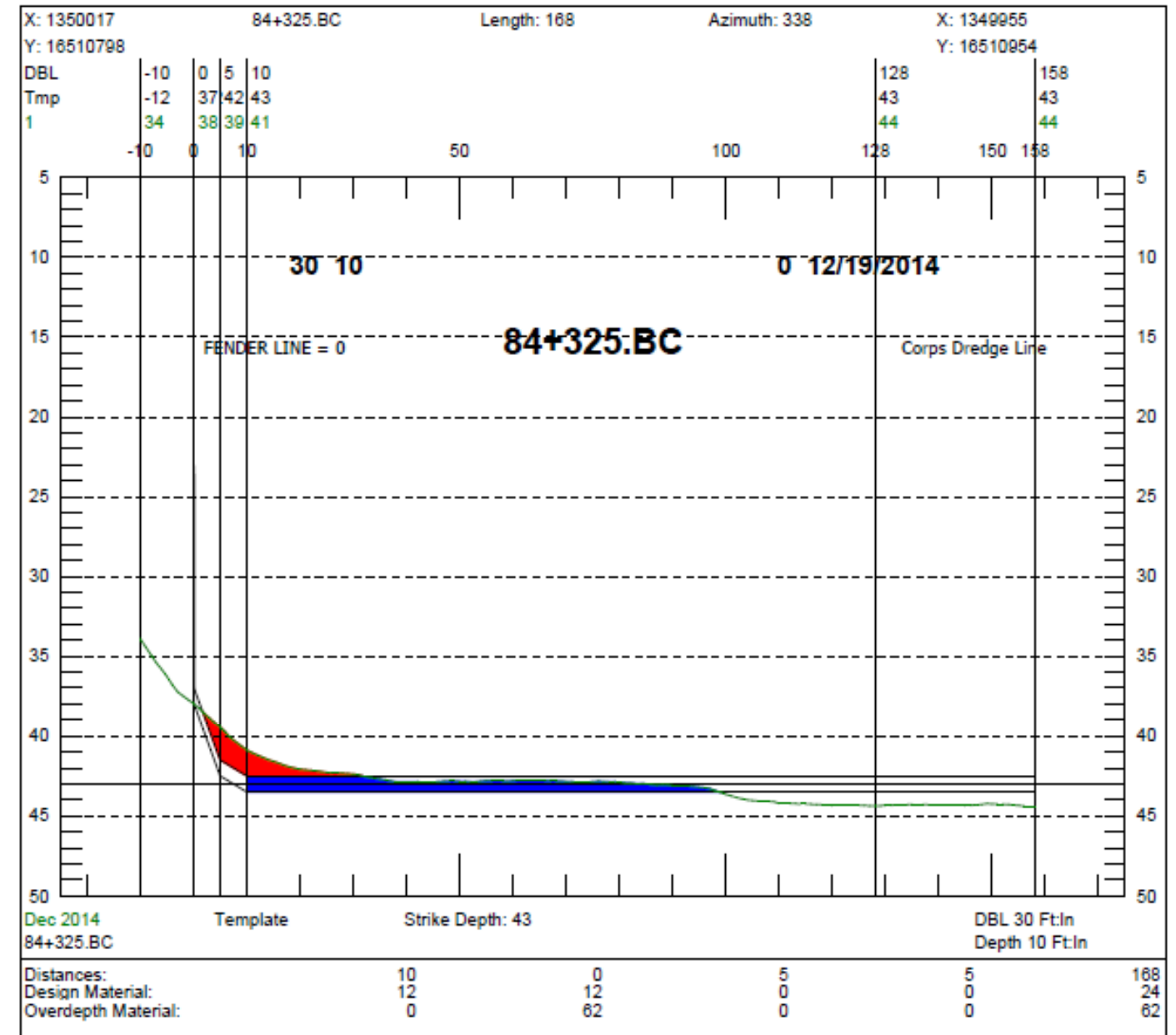
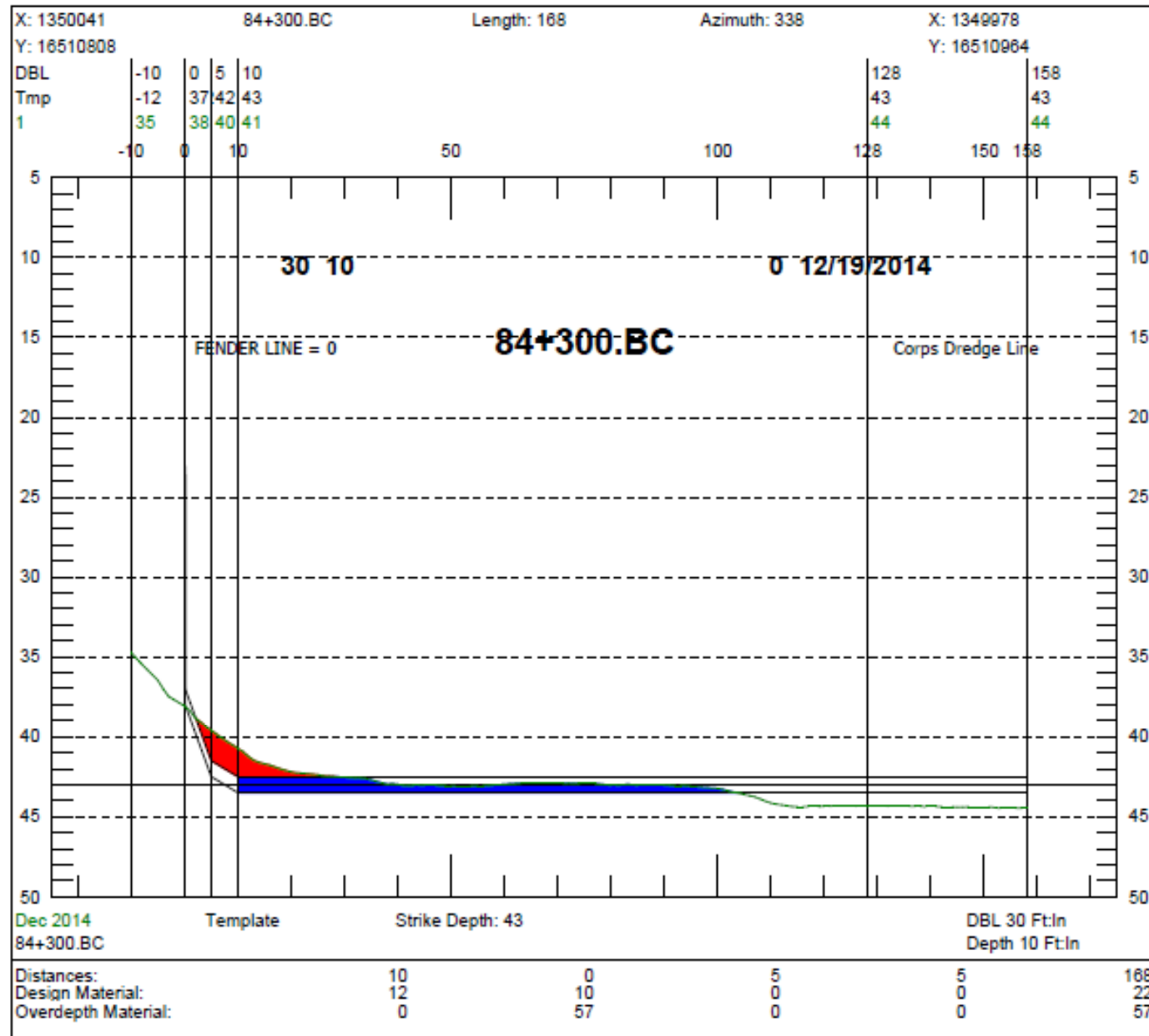
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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



Sheet 27 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

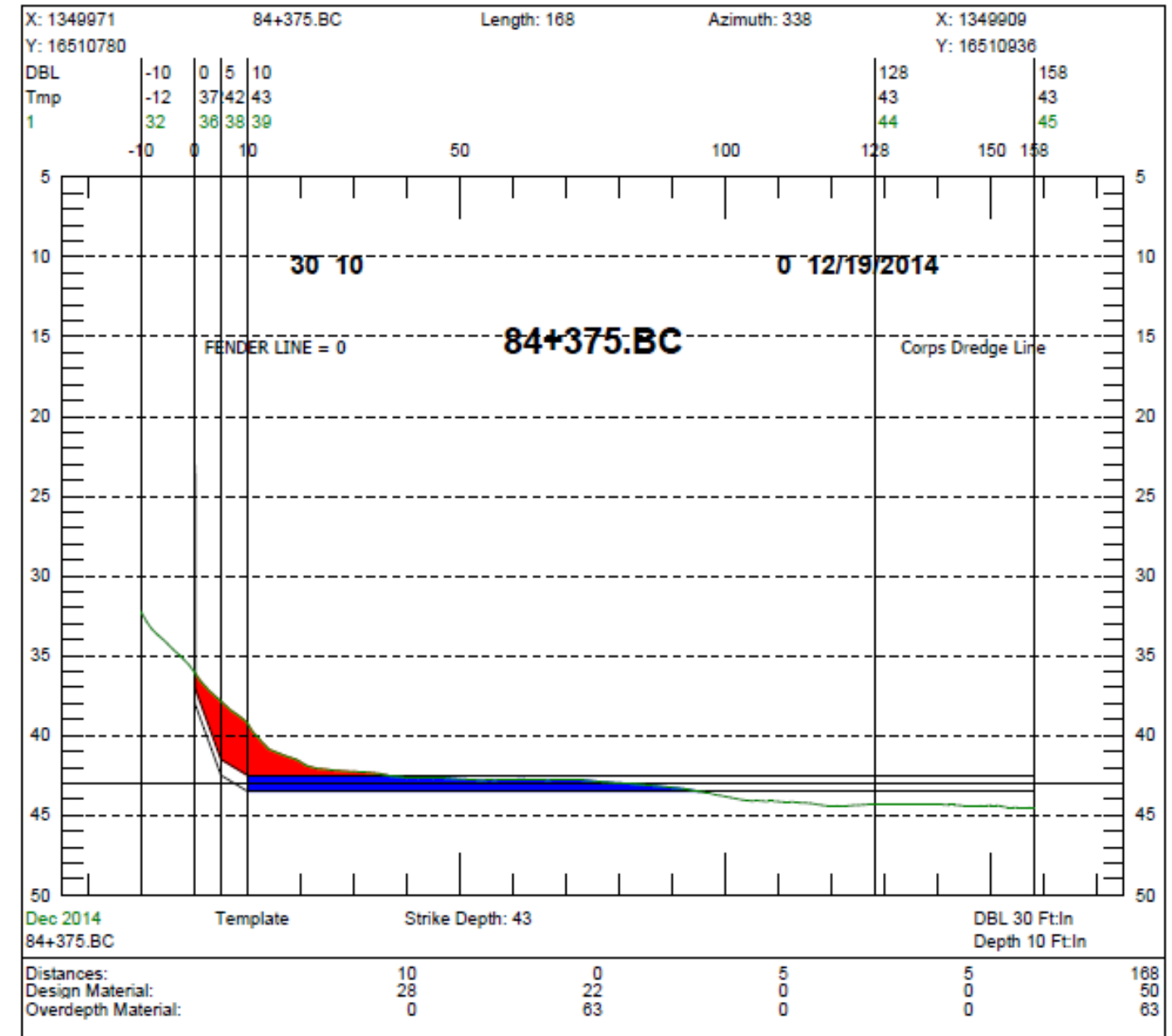
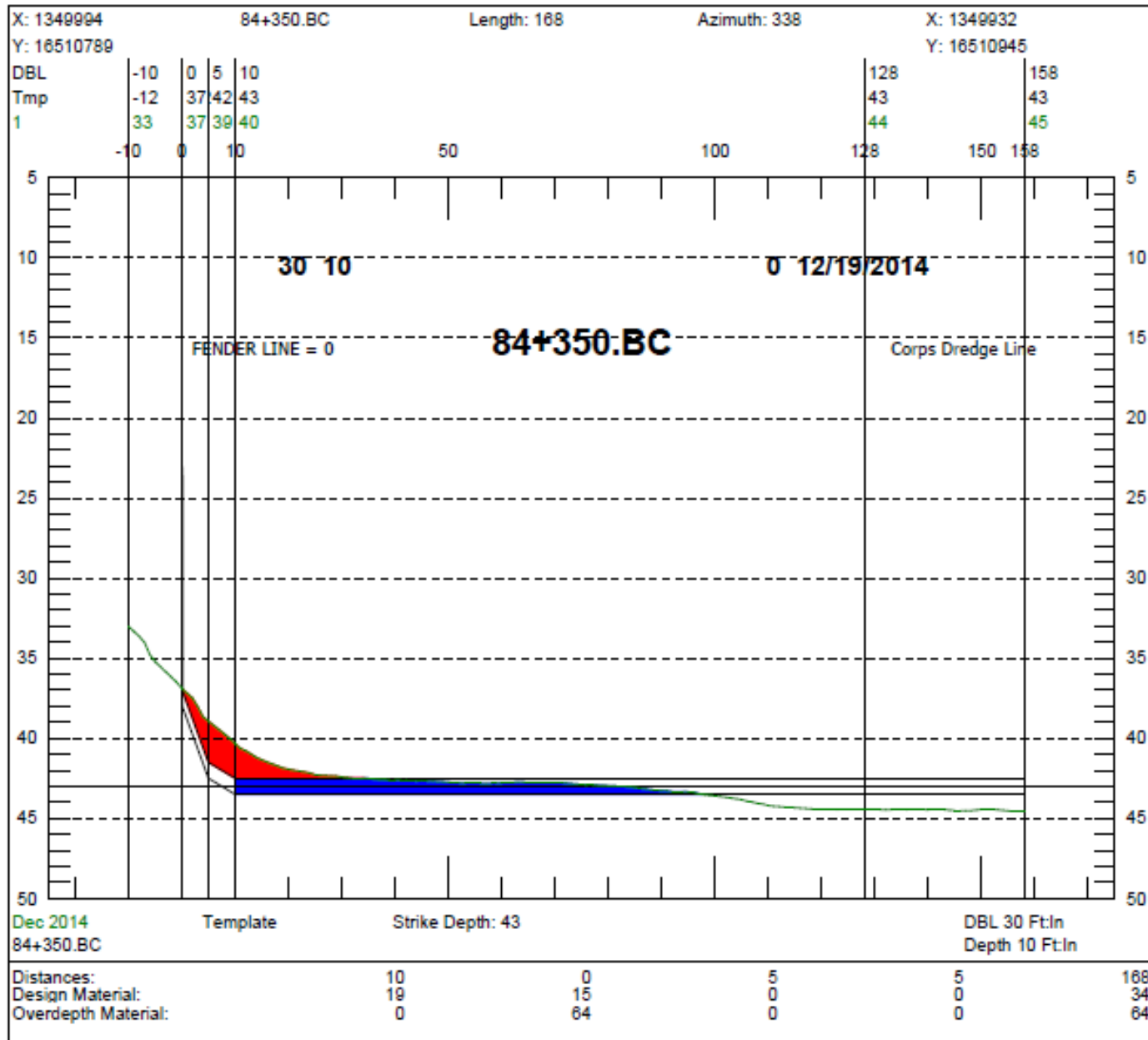
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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	





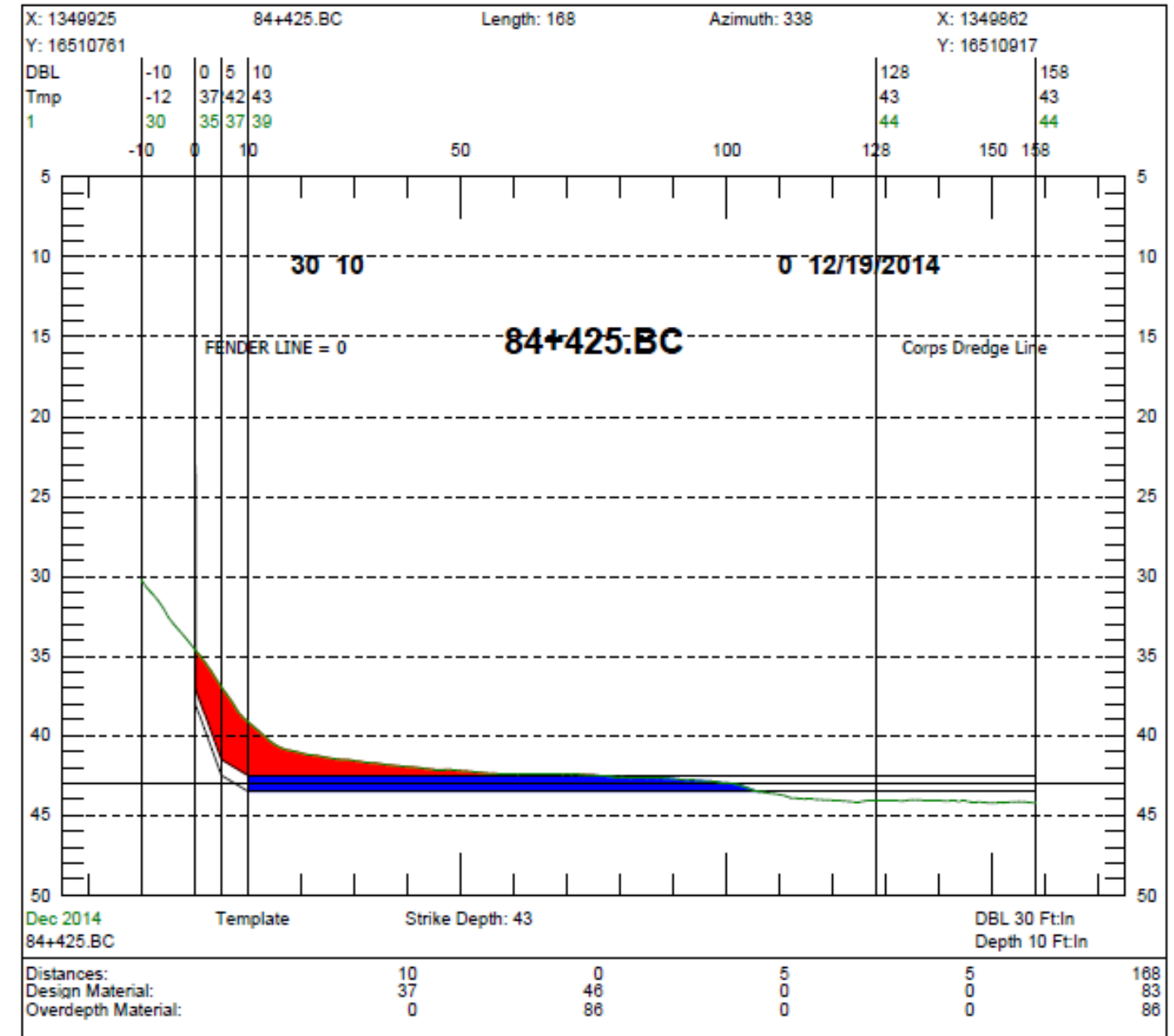
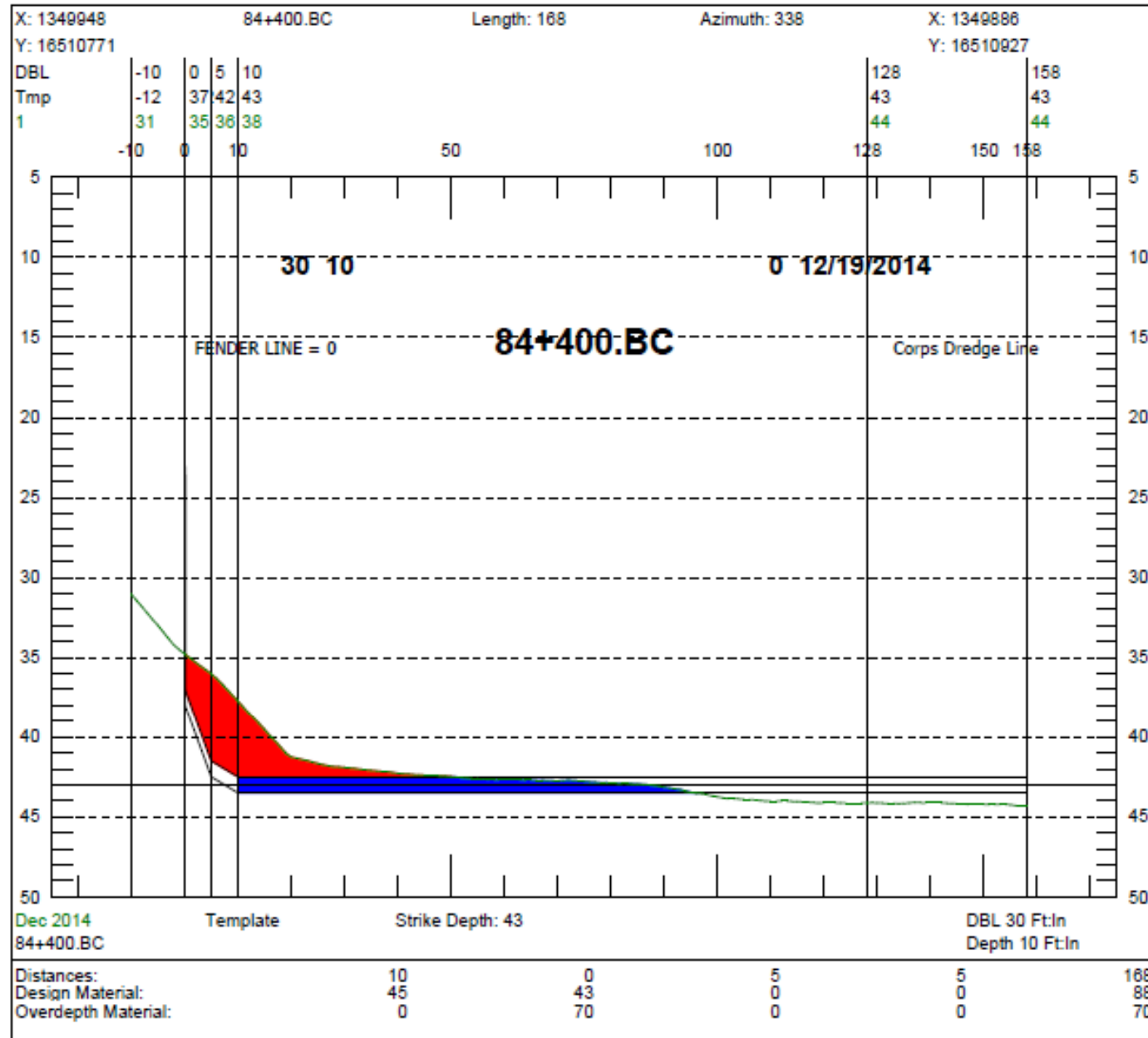
Sheet 29 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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Sheet 30 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	



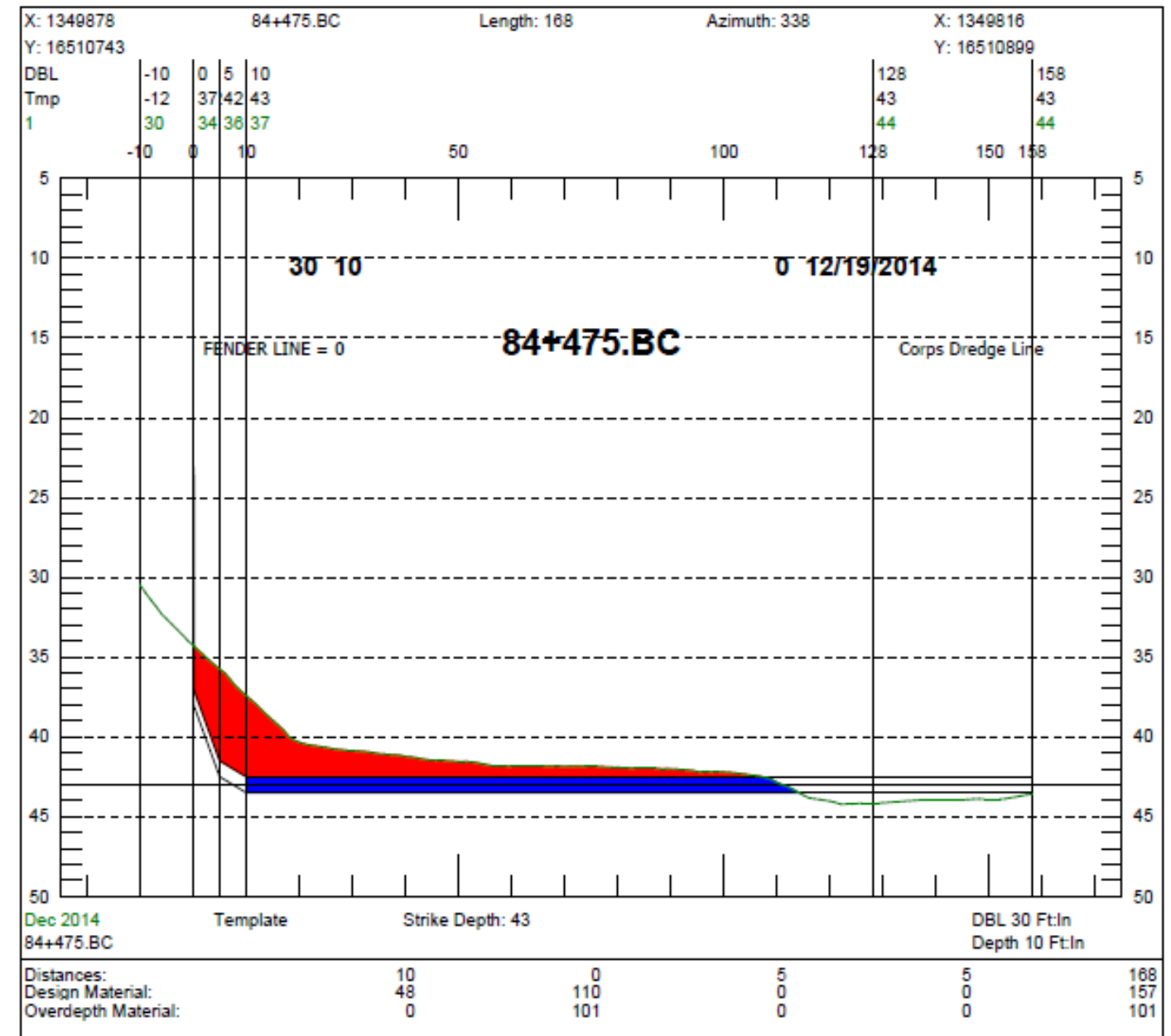
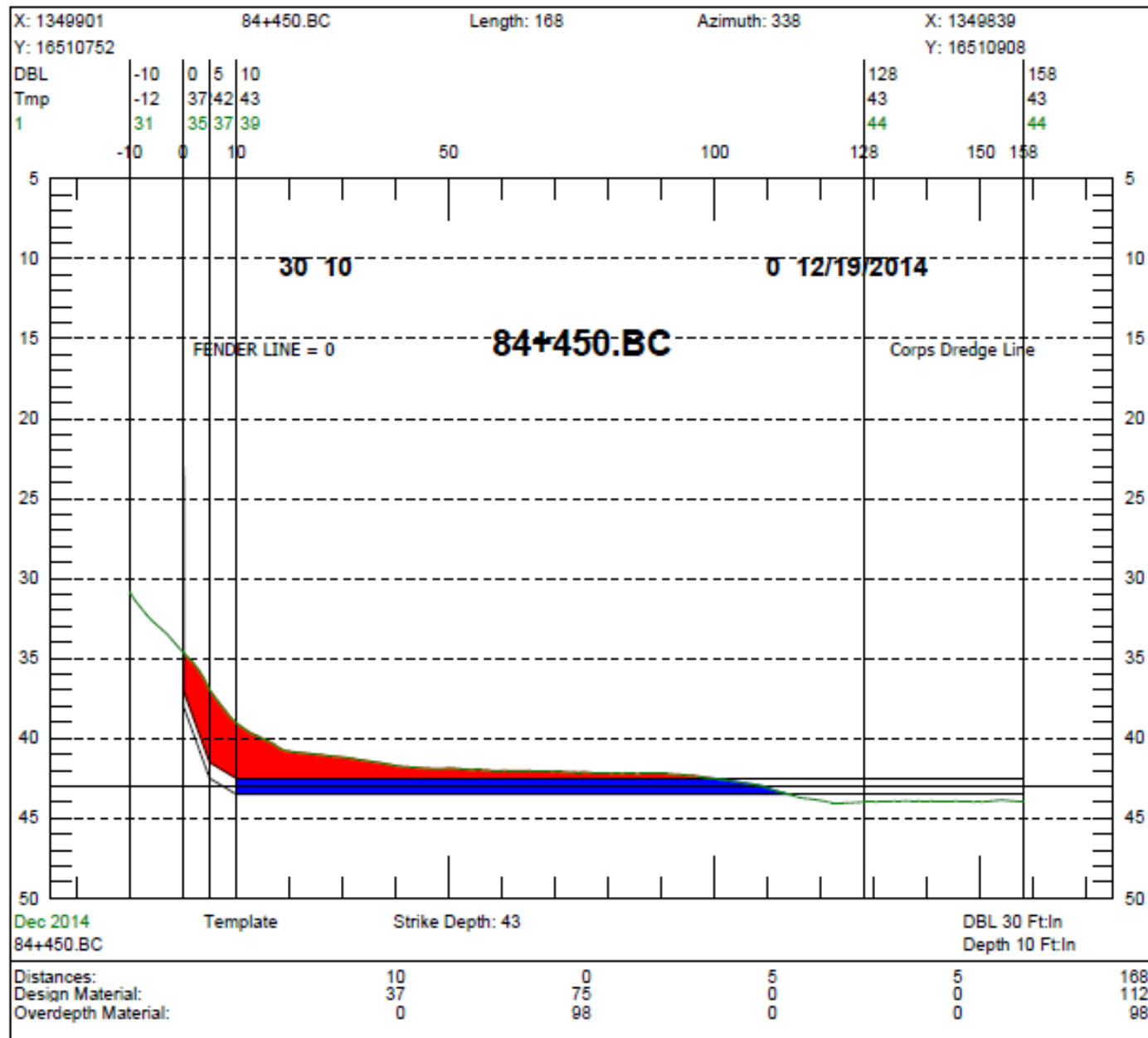
Sheet 31 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 32 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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Sheet 33 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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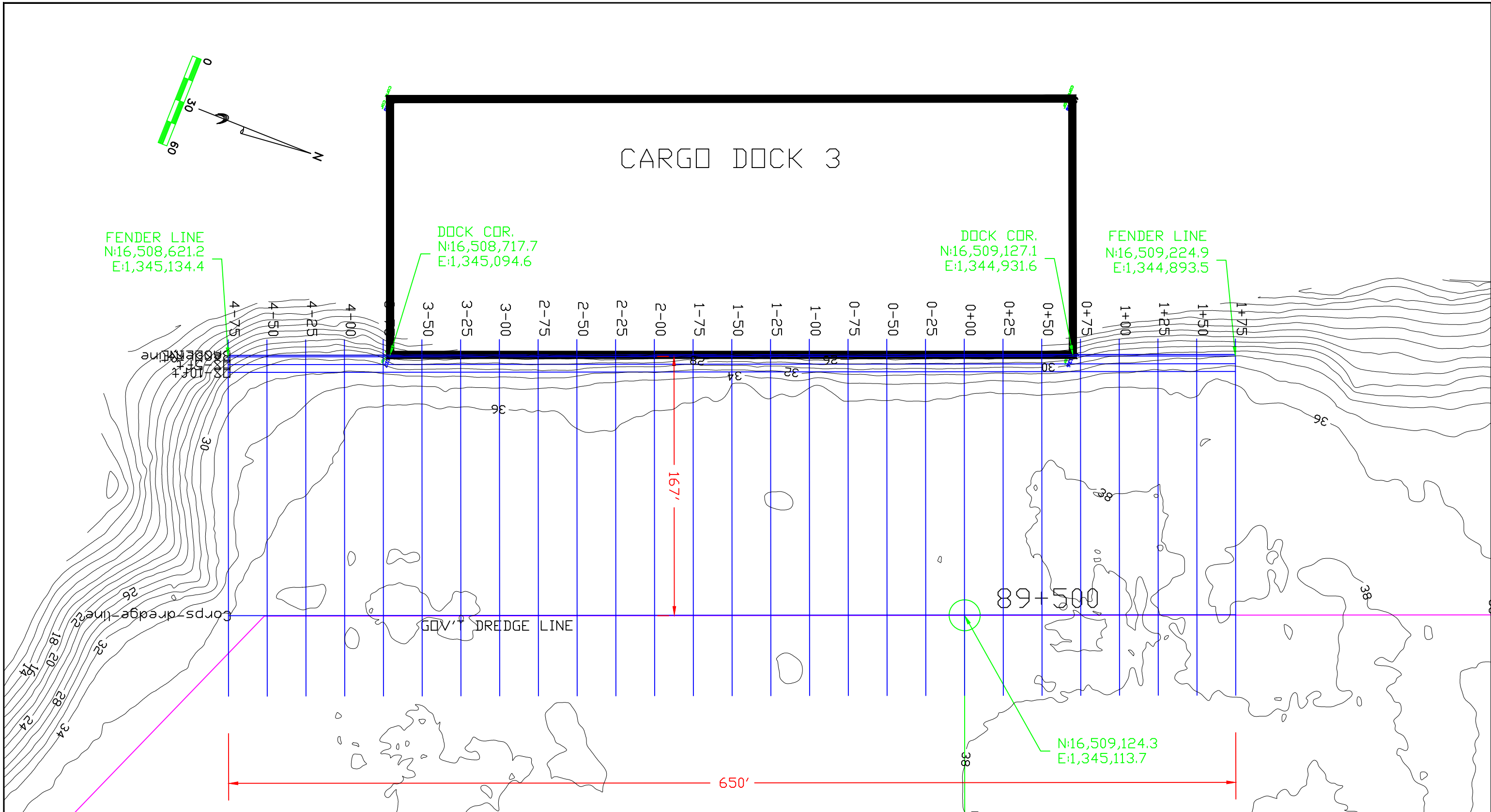
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Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
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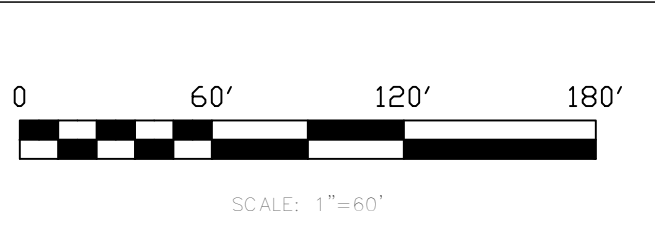
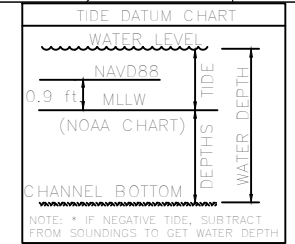
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Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

Sheet 36 Of 36	Dec 2014
Project	Port of Brownsville
Job	
Area	Bulk Cargo Dock
Surveyor	Naismith Marine Services
Date	12/19/2014
File	

**BROWNSVILLE NAVIGATION DISTRICT**  
**DRAWINGS FOR**  
**2016 BND DOCKS**  
**MAINTENANCE DREDGING**  
  
**CARGO DOCK 3**



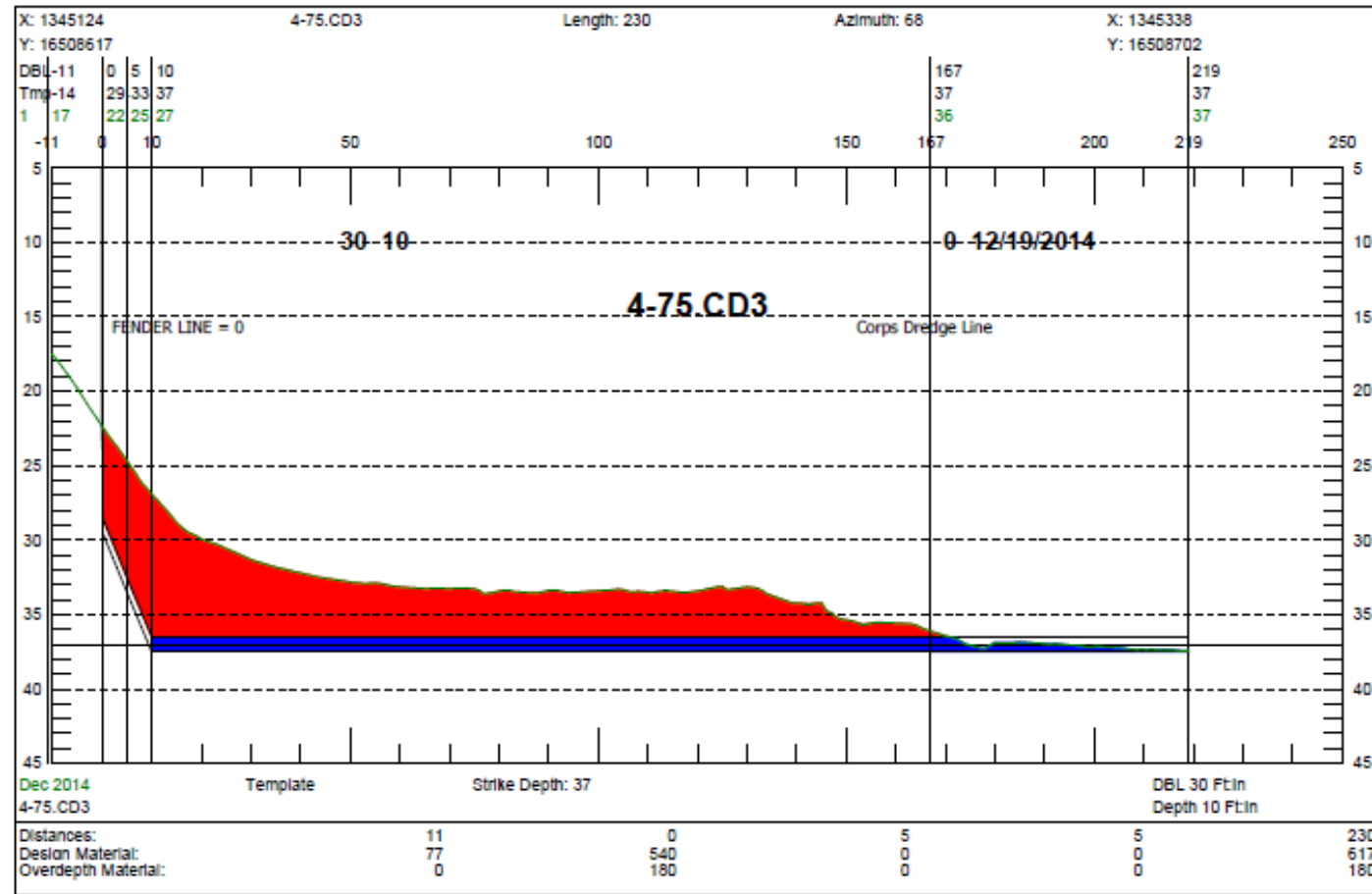
**NOTES:**  
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 3) VERTICAL DATUM: MEAN LOWER LOW WATER  
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 E: 2,360,559.23  
 ELEV: 14.7' MLLW (13.8' NAVD88)



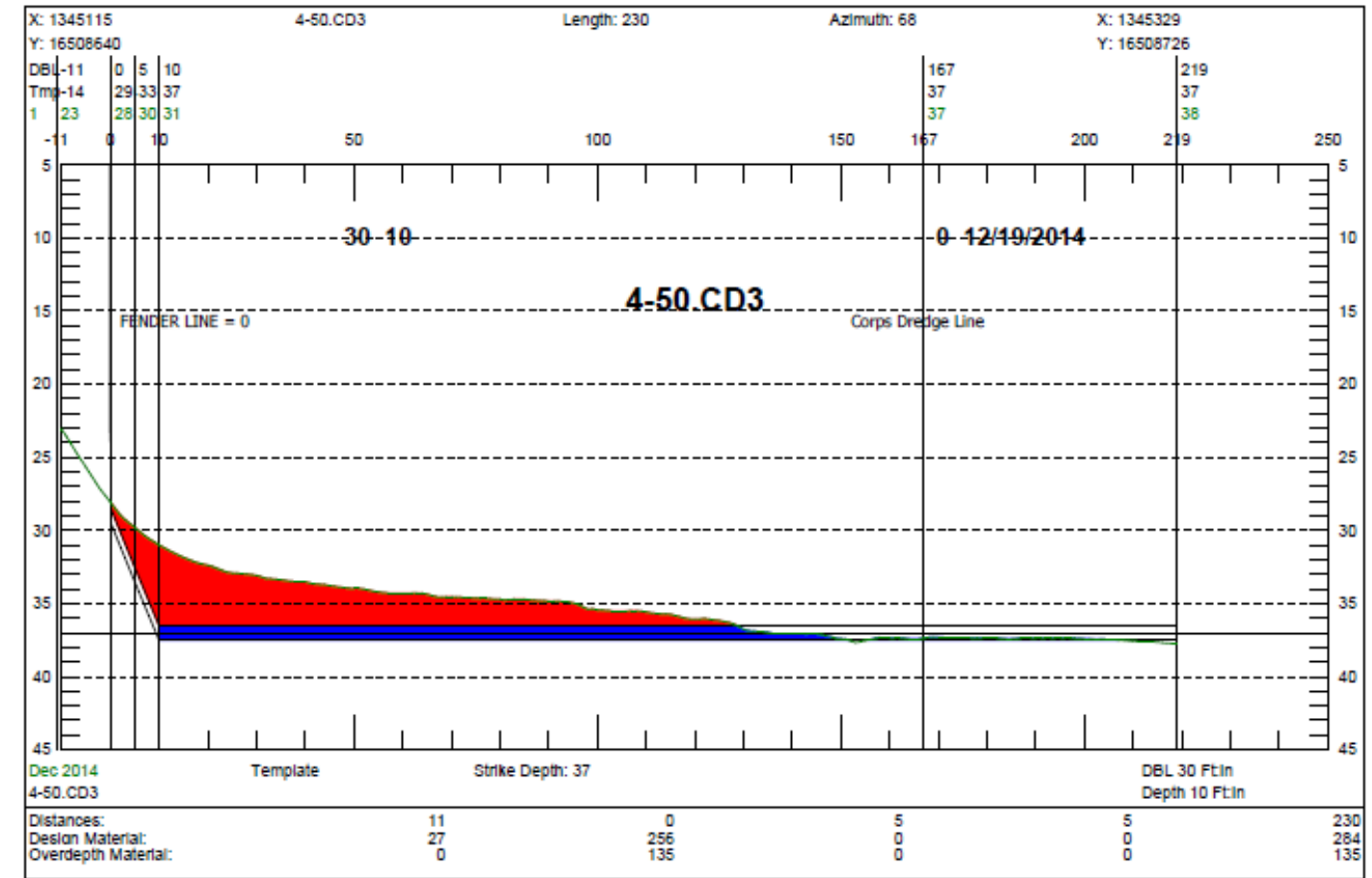
**Naismith Marine**  
 Sea Floor Surveying  
 3765 South Alameda, Suite 205  
 Corpus Christi, Texas 78411  
 WWW.NAISMITHMARINE.COM  
 (361) 945-0248

NO.	DATE	REVISION

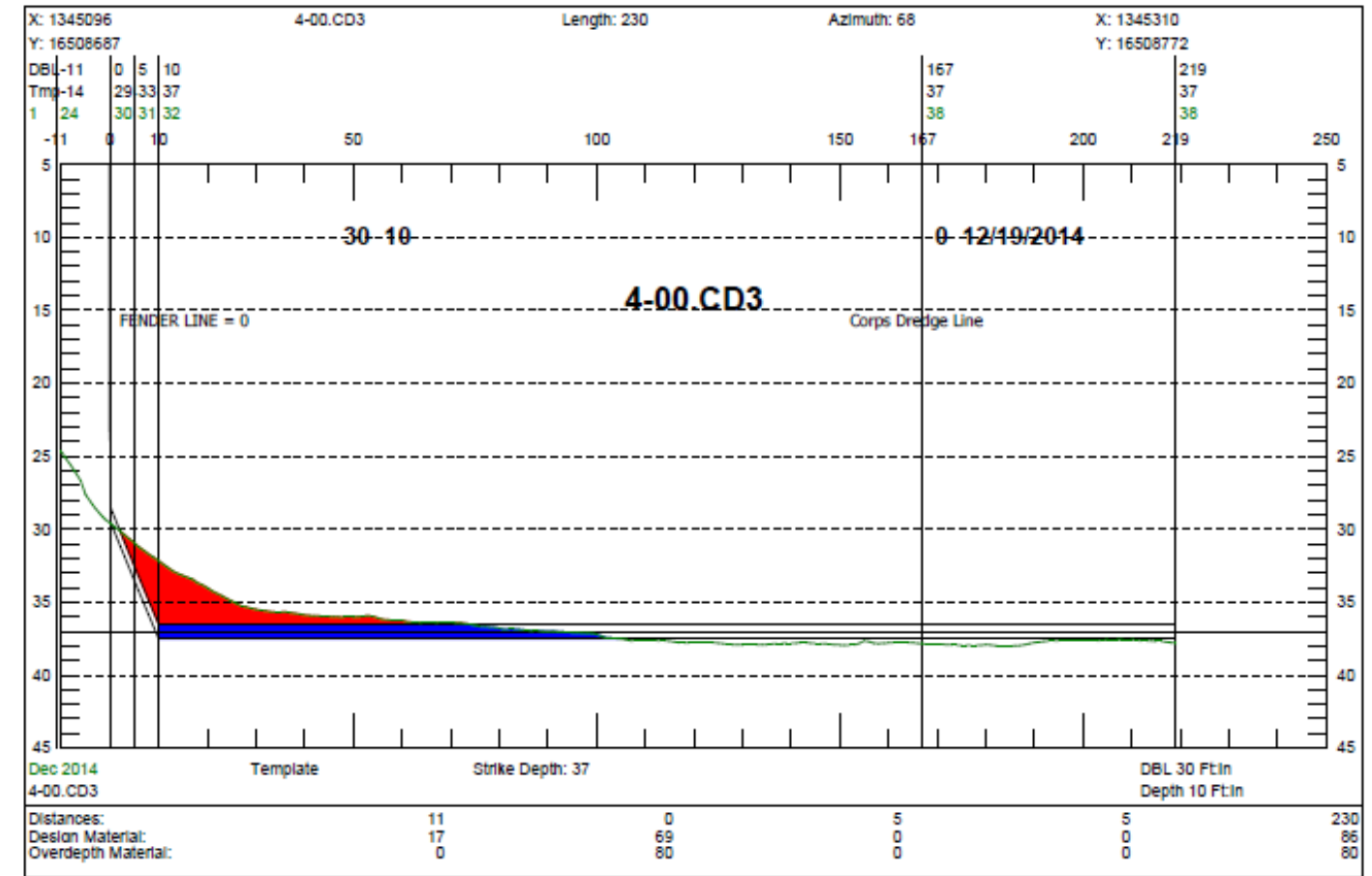
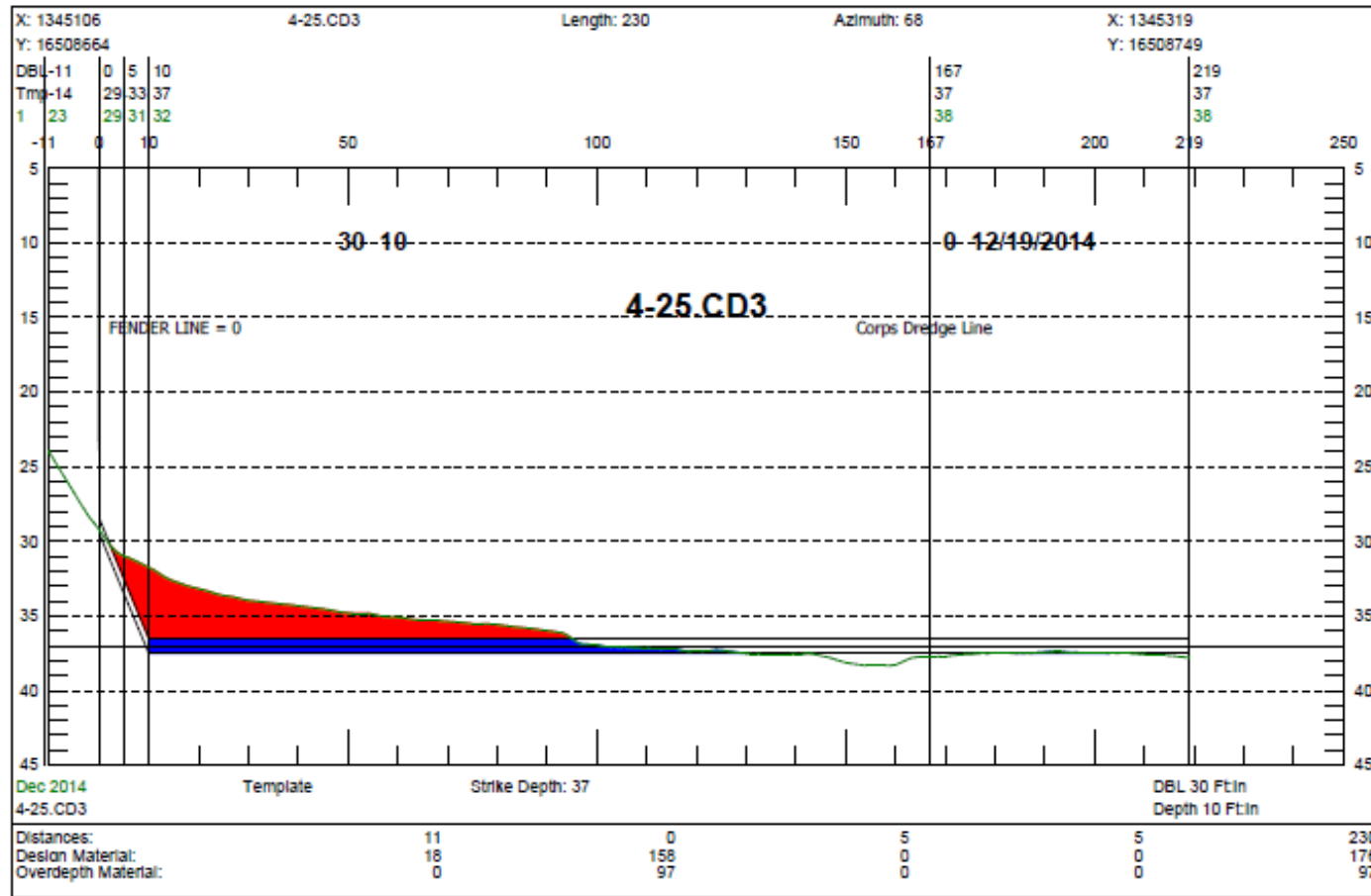
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 TRANSECT LAYOUT  
 CARGO DOCK NO. 3  
 CARGO DOCK 3  
 SCALE: NOTED  
 DWN. BY: JMN  
 PLAN SHEET 1 OF 1  
 PAGE CD3-2 OF 20  
 JUN. 2015



Sheet 1 Of 27	Dec 2014
Project	Port of Brownsville
Job	
Area	Cargo Dock 3
Surveyor	Nalsmith Marine Services
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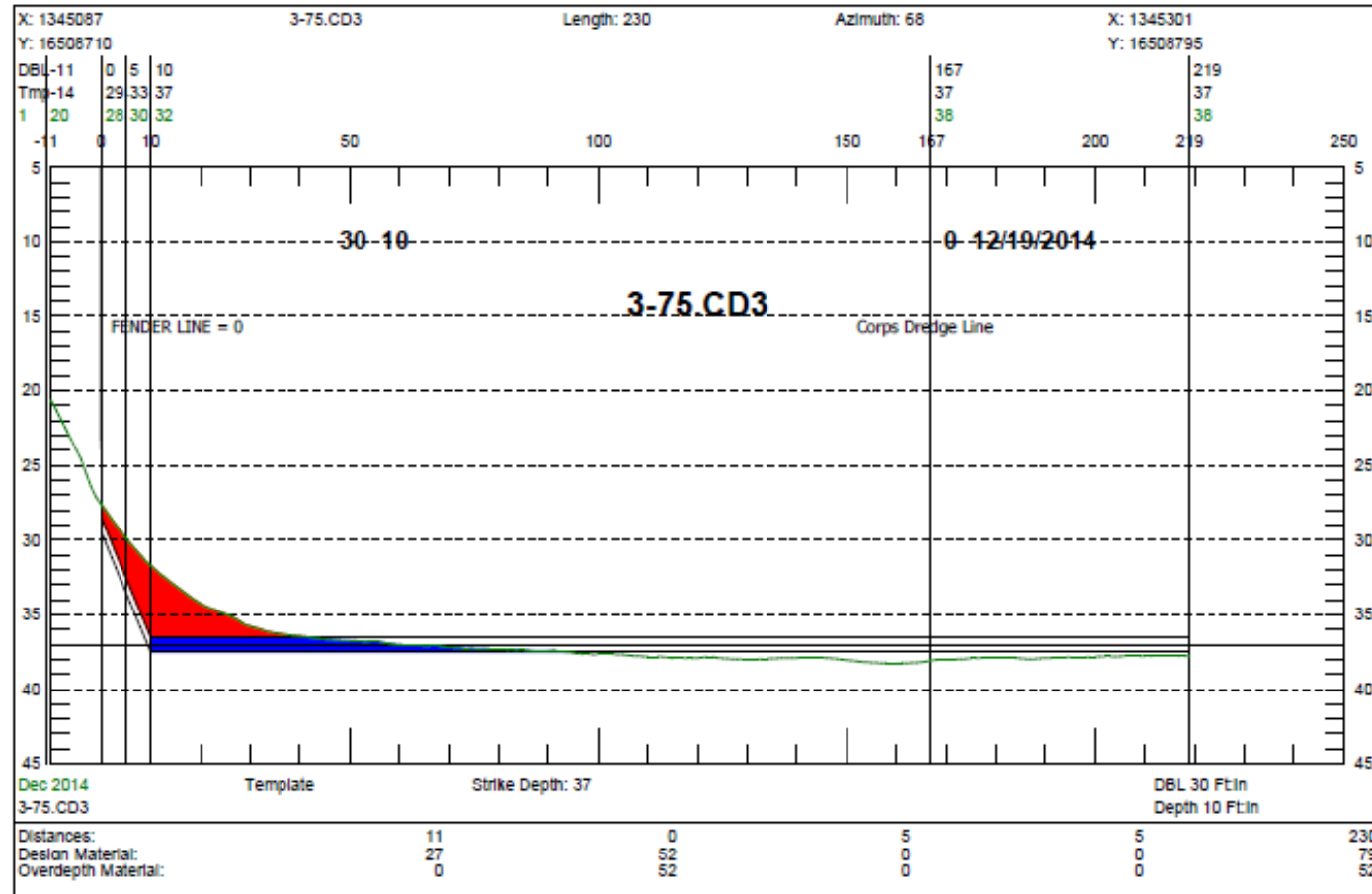
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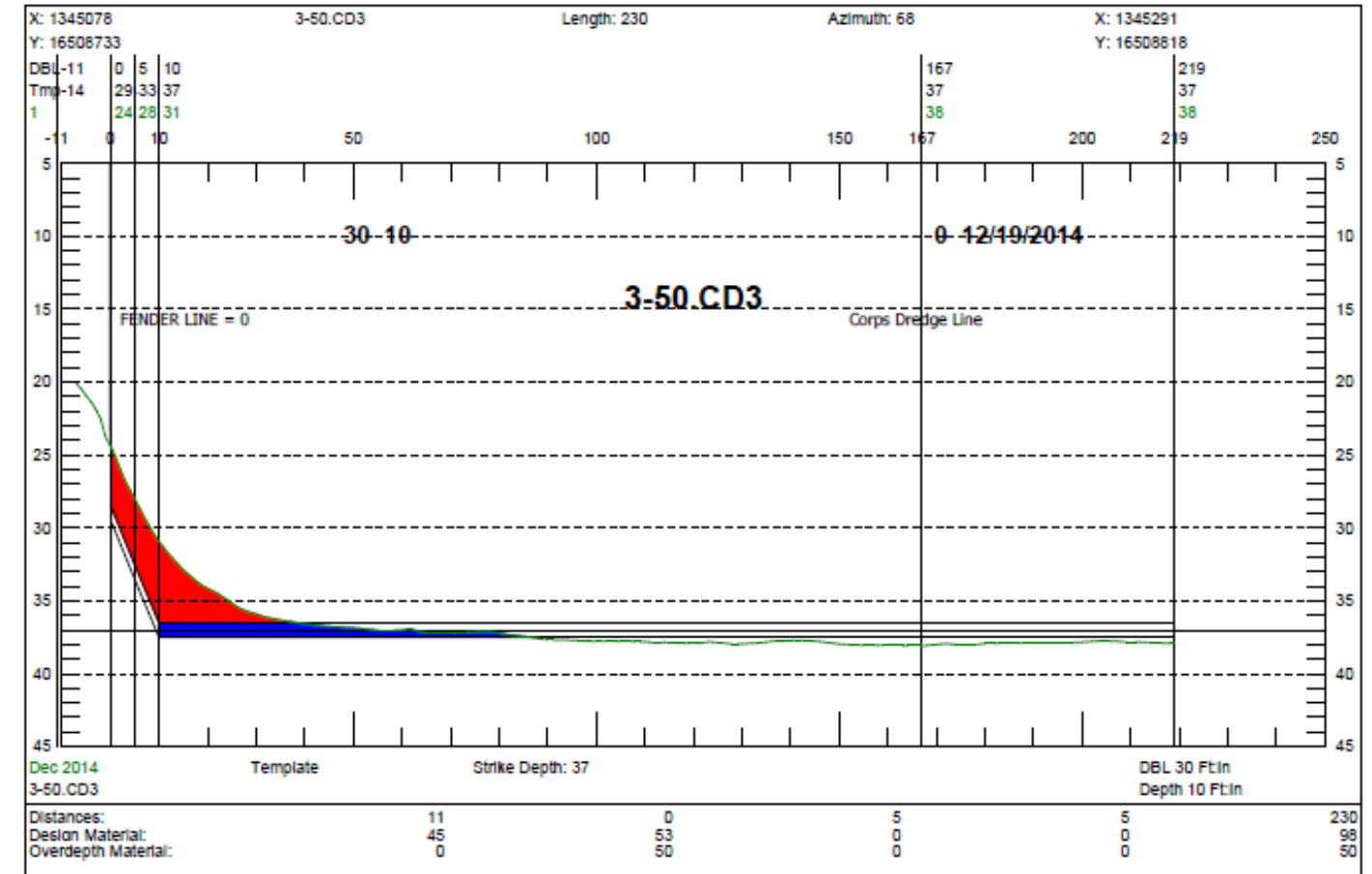
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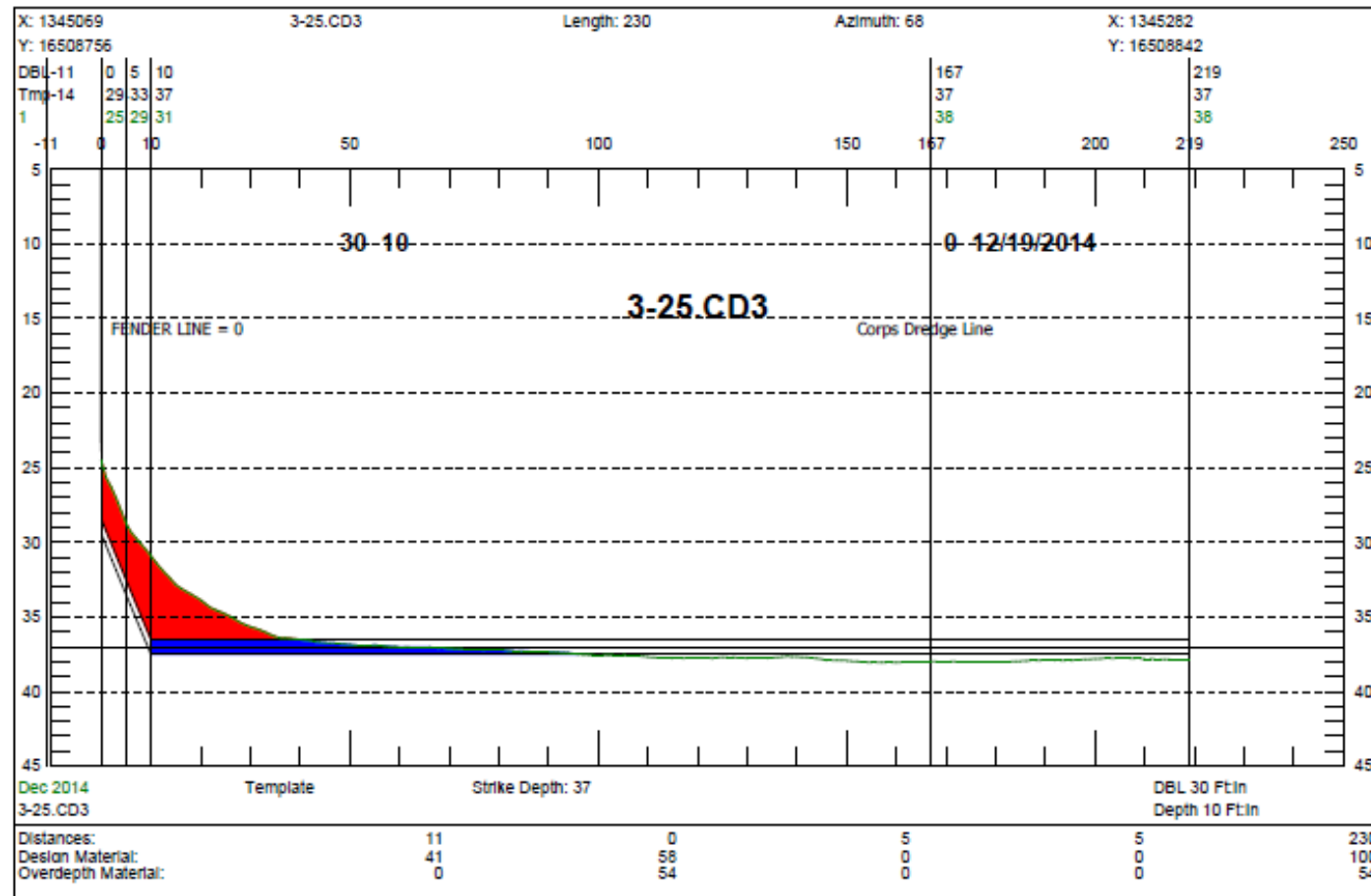




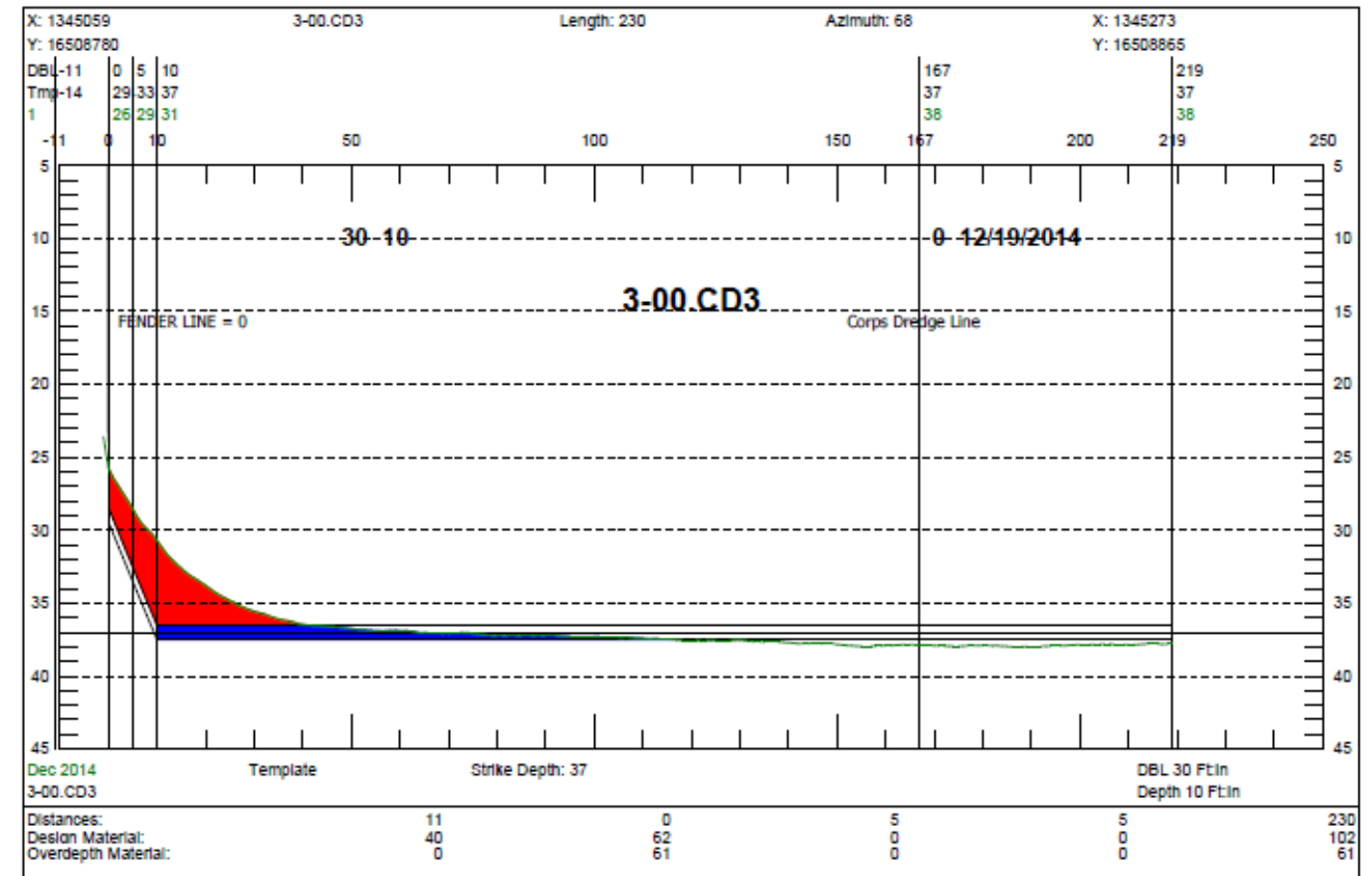
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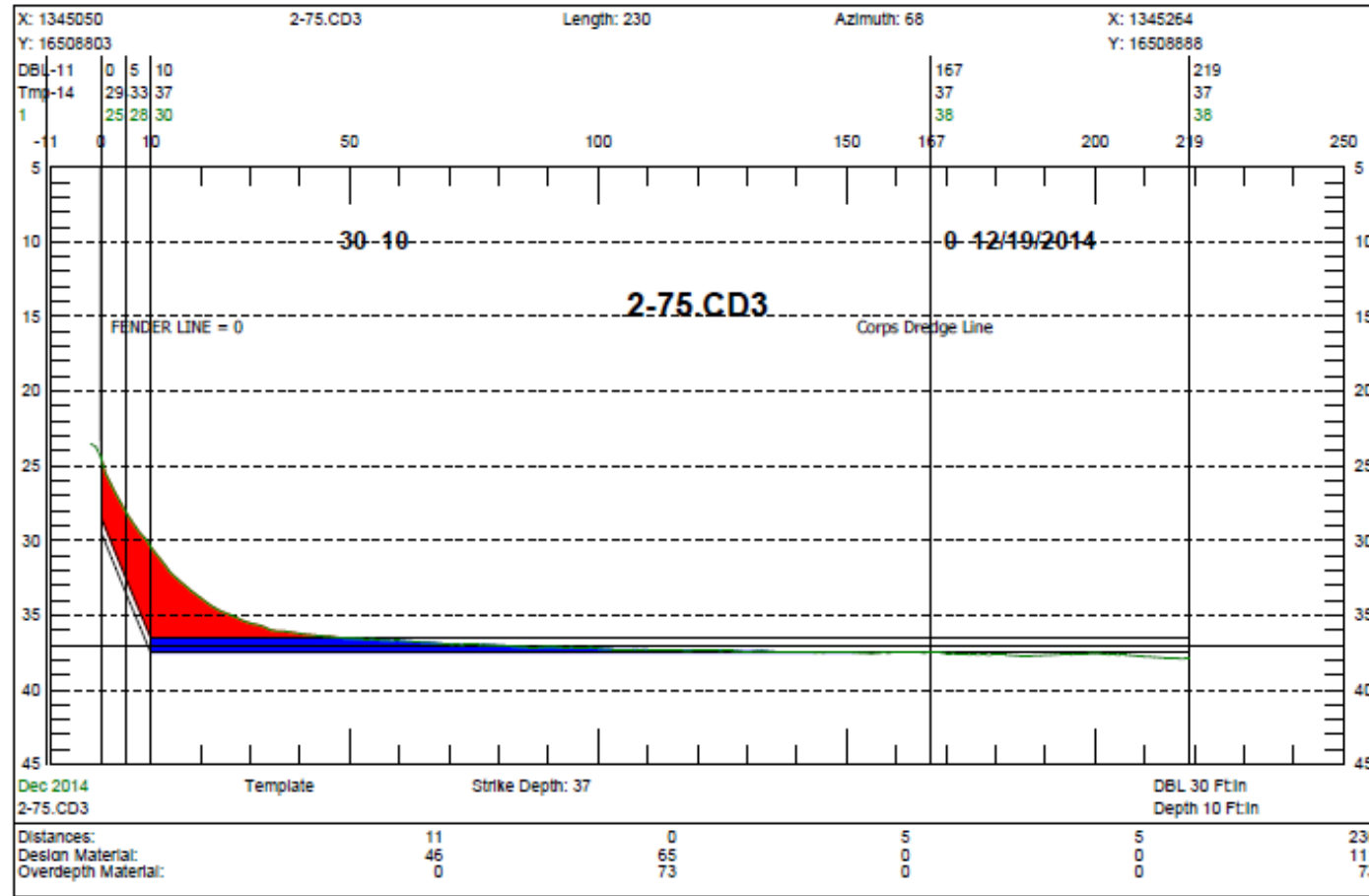
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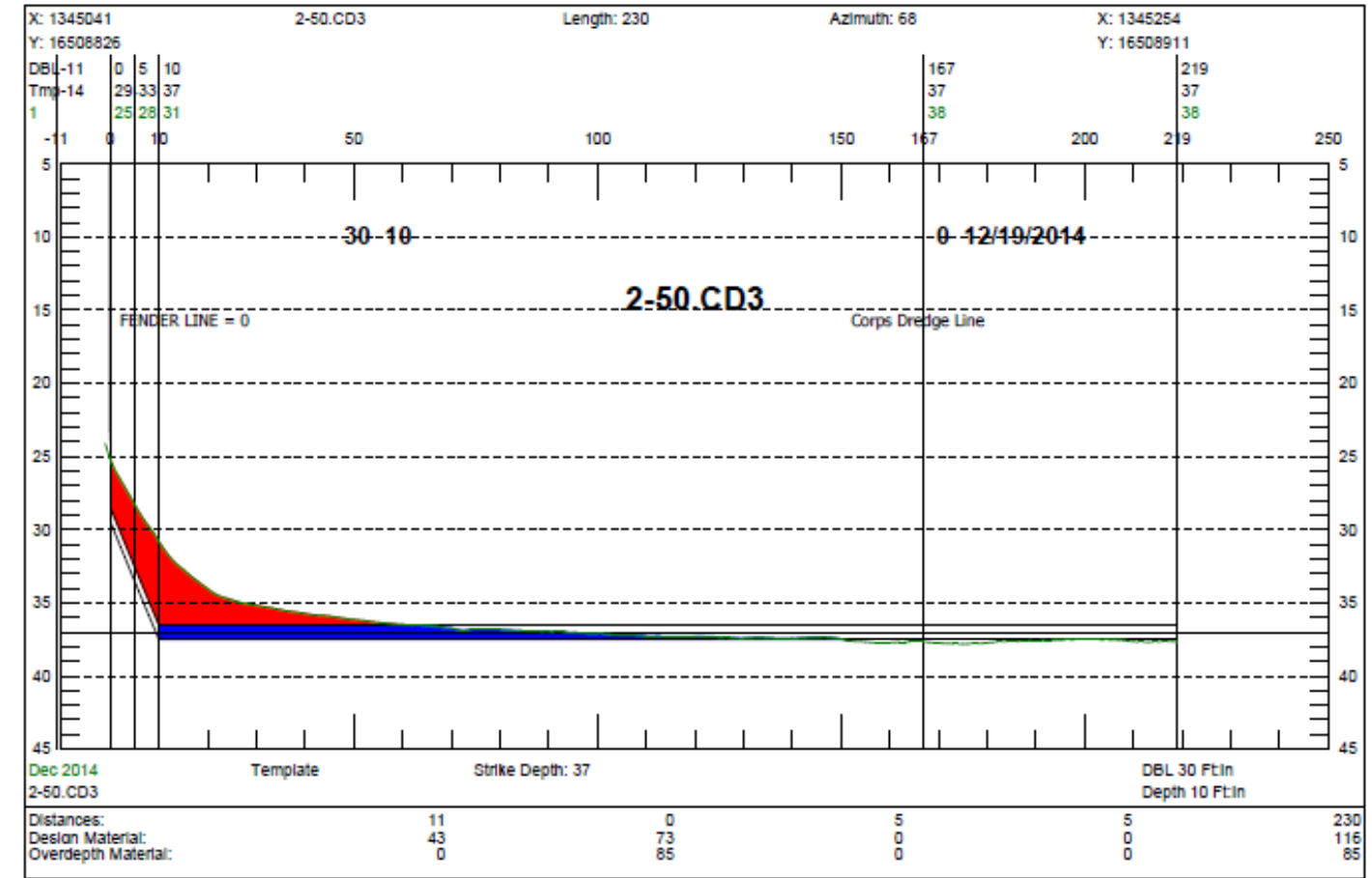
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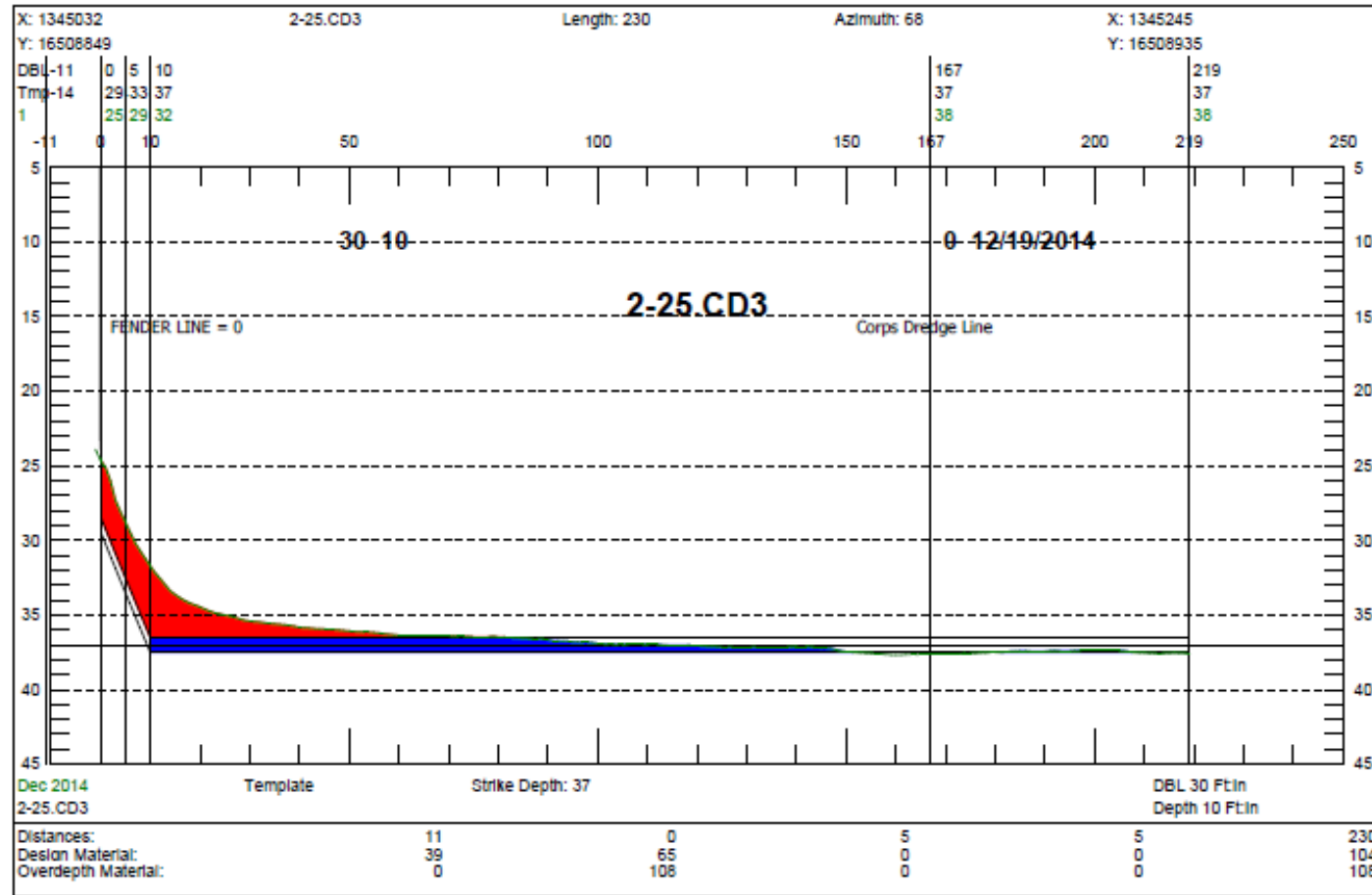
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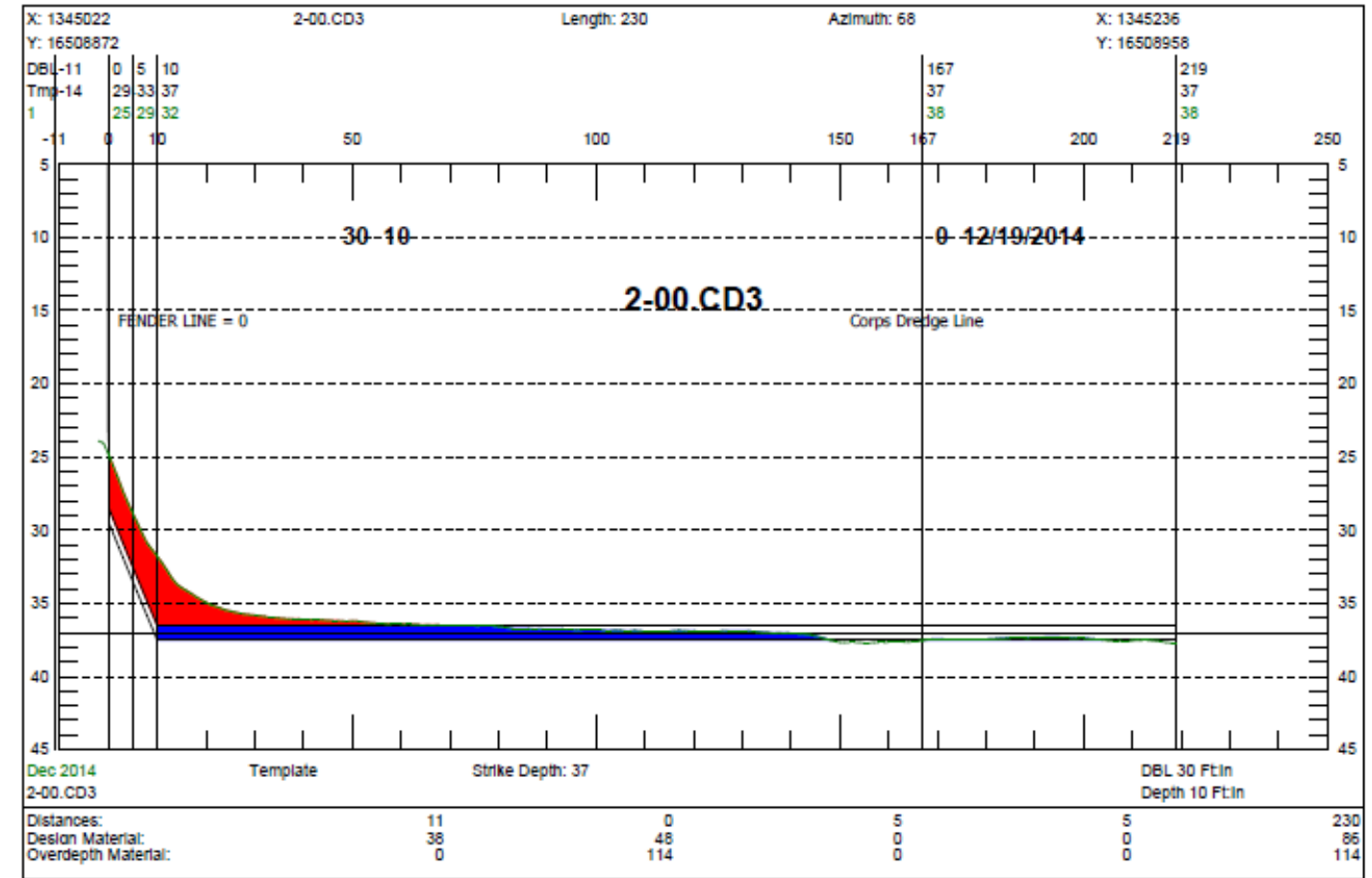
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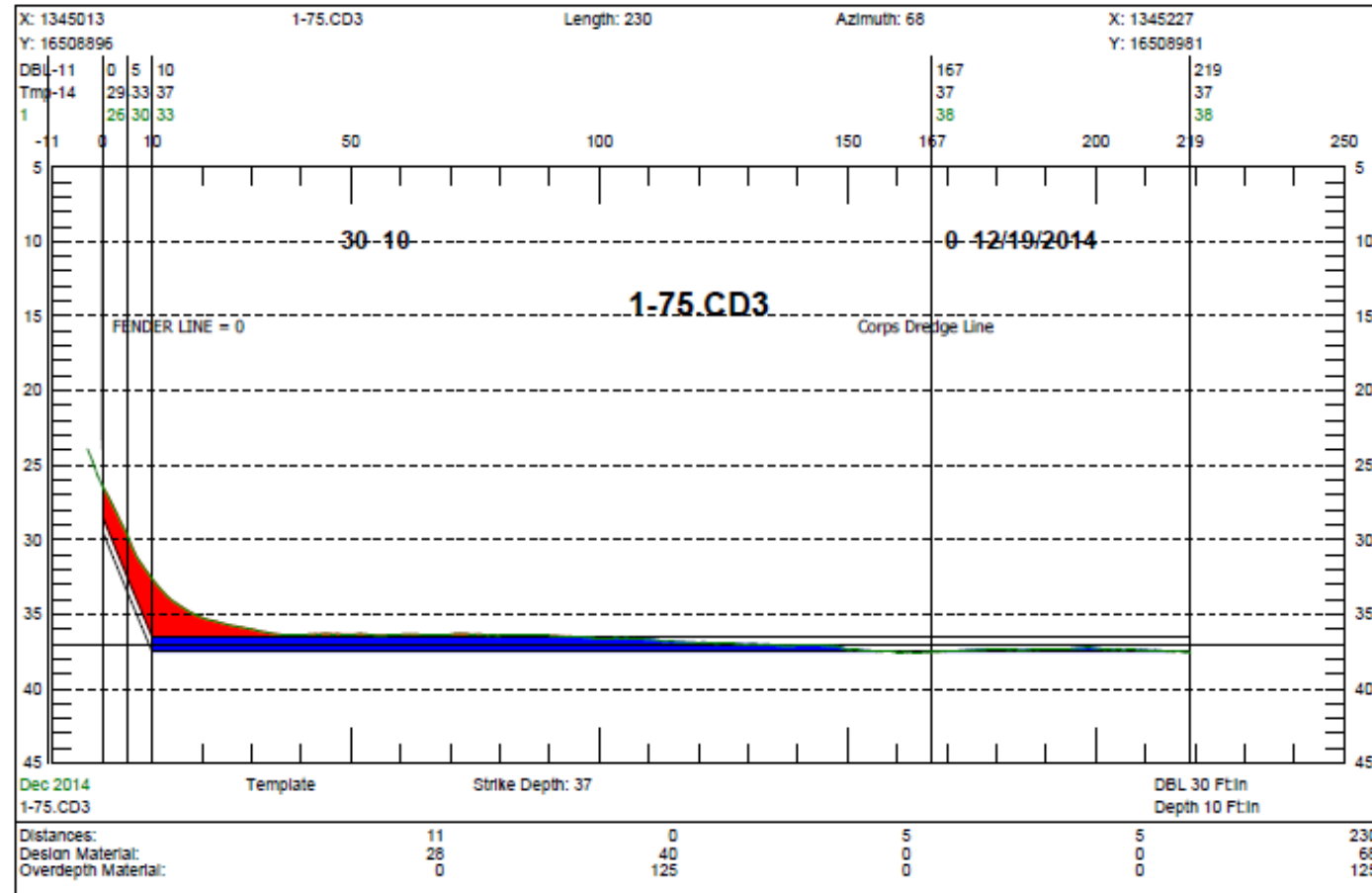
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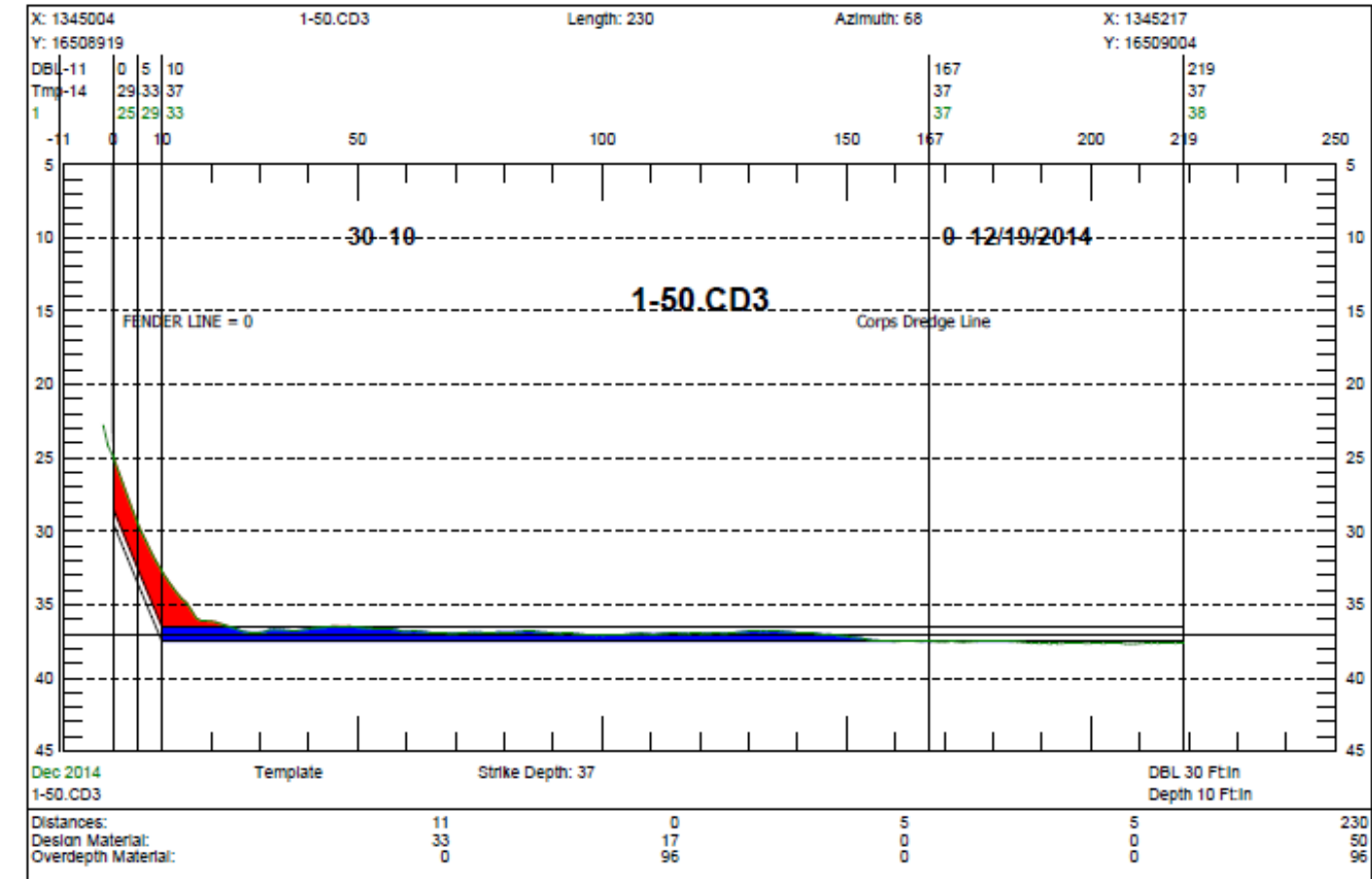
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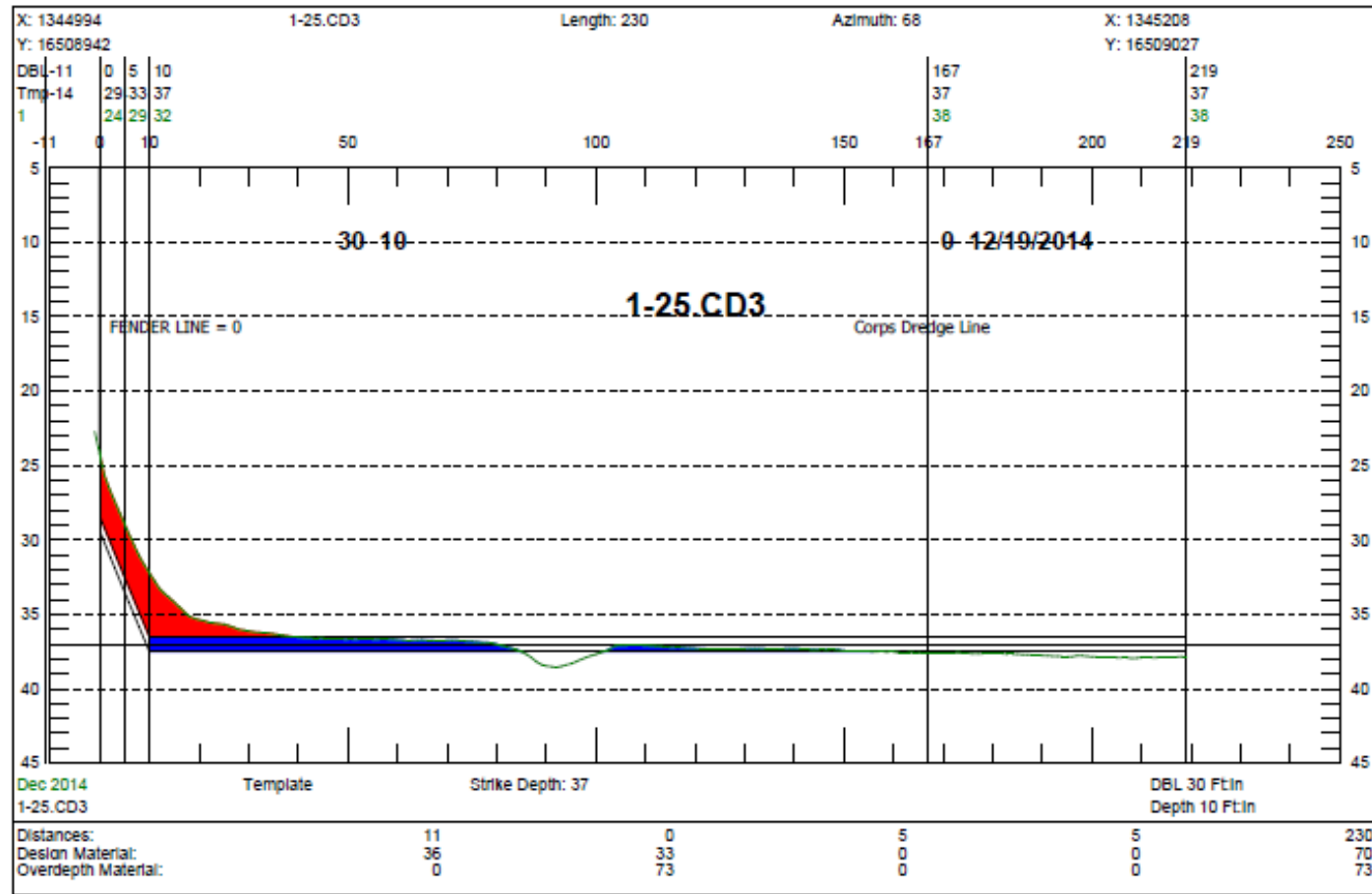
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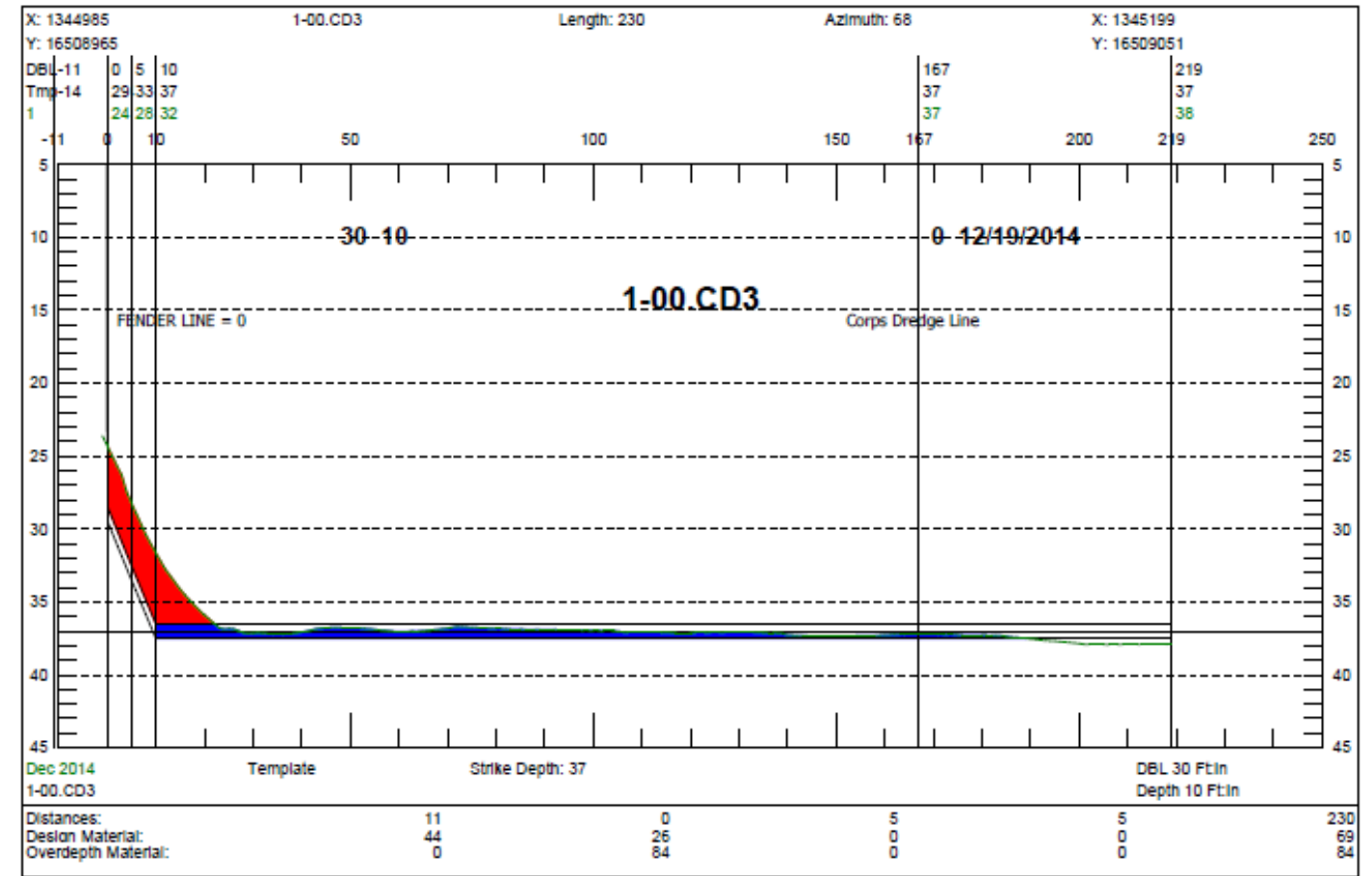
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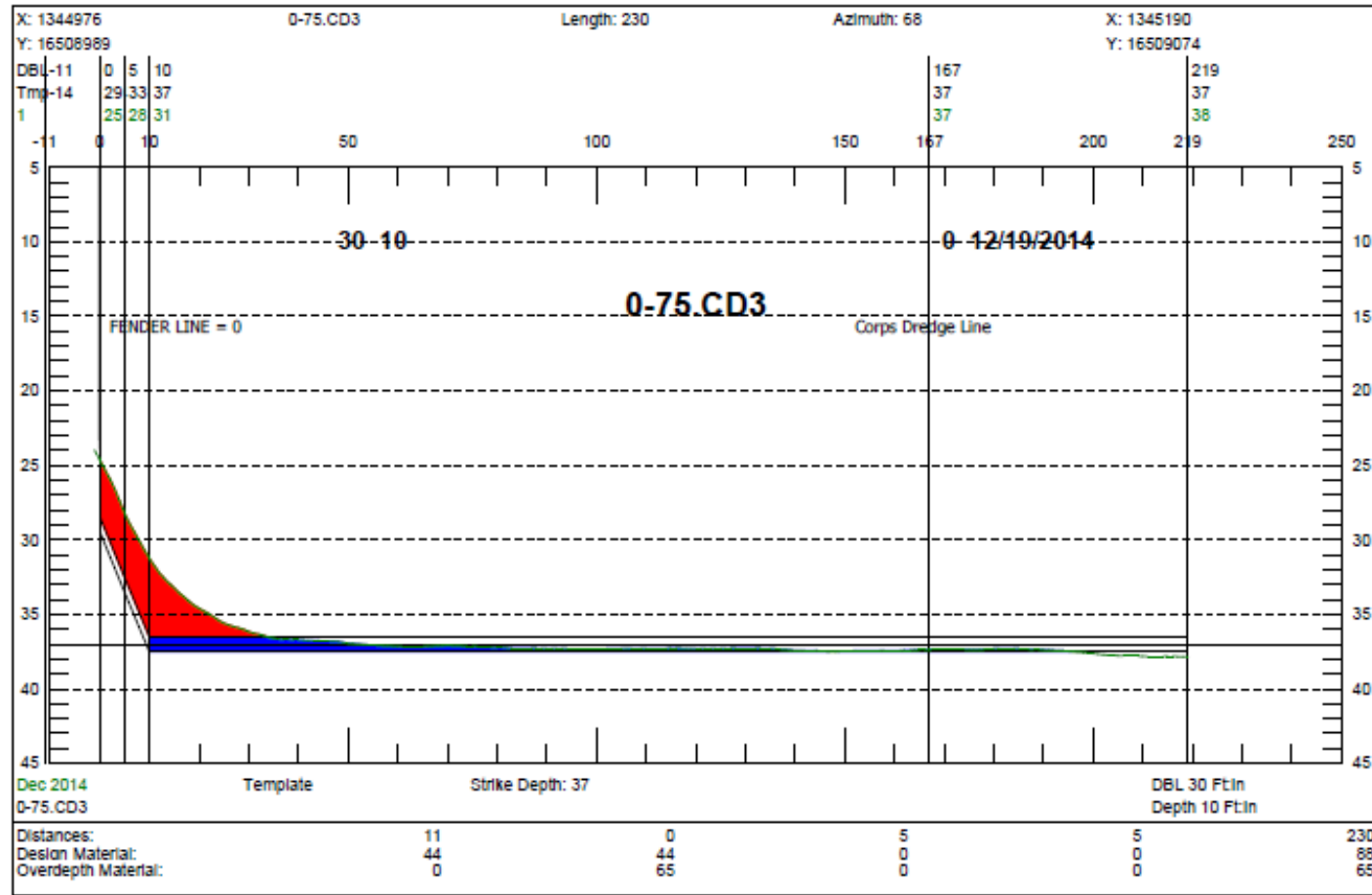
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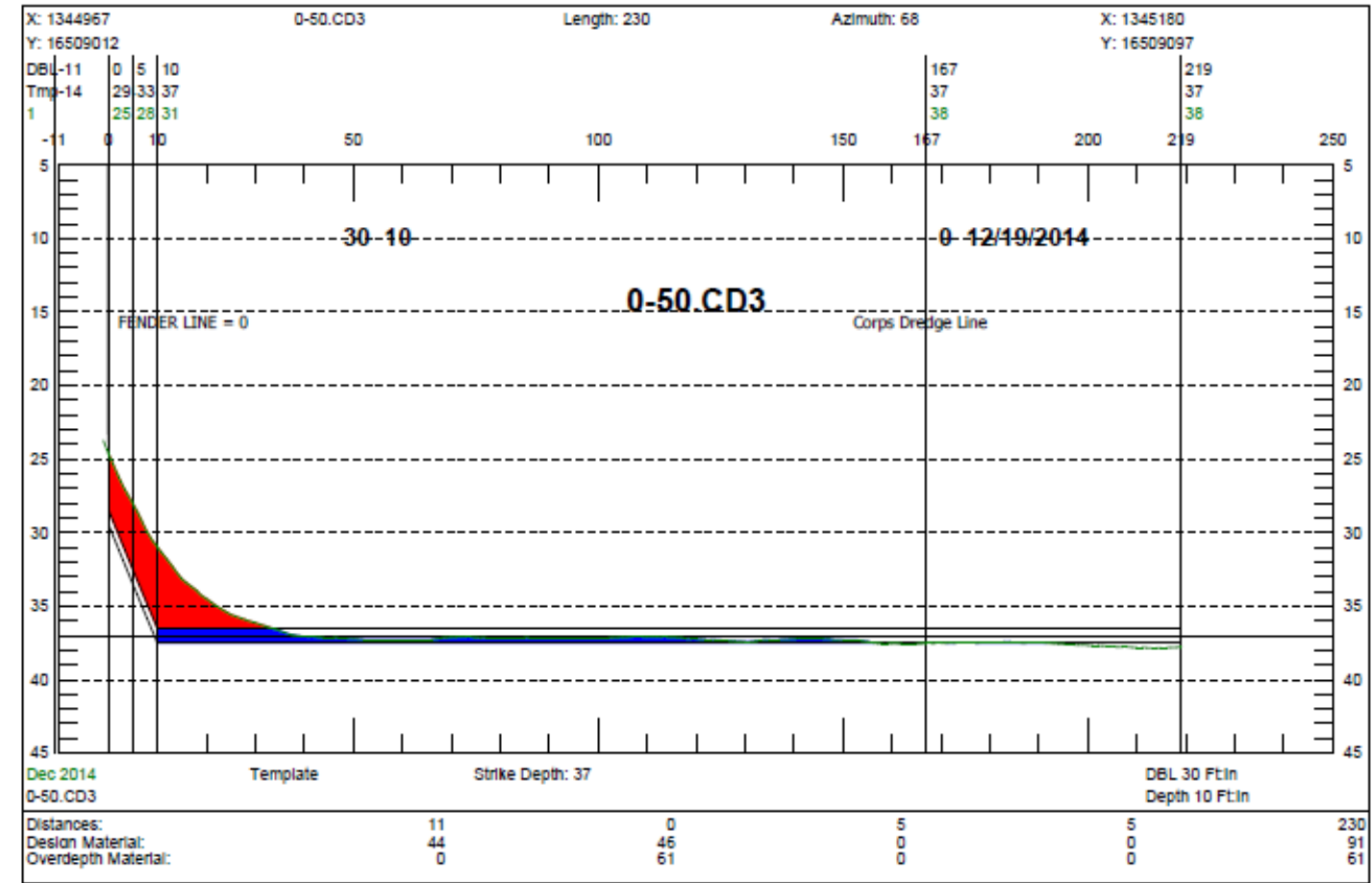
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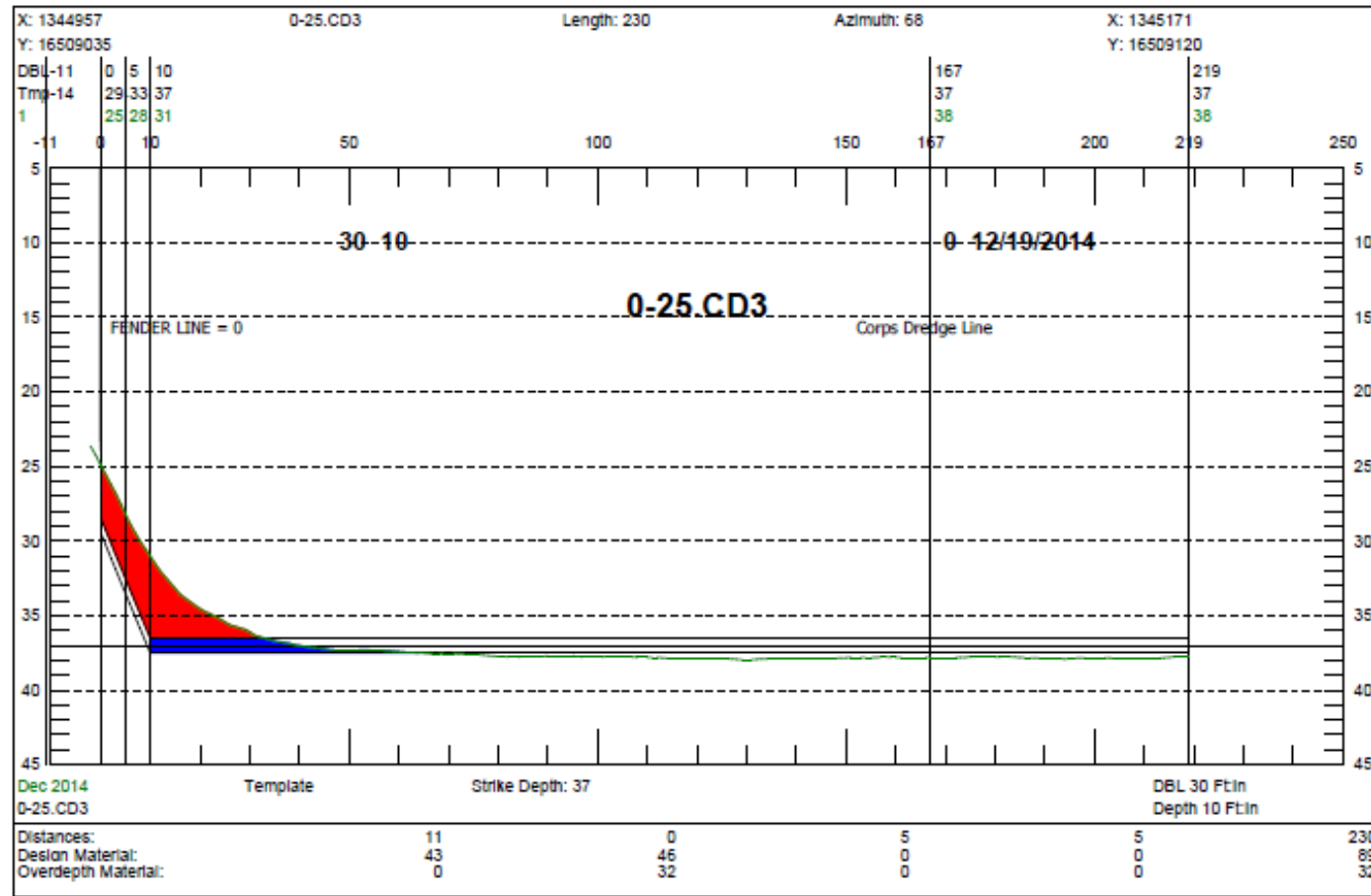
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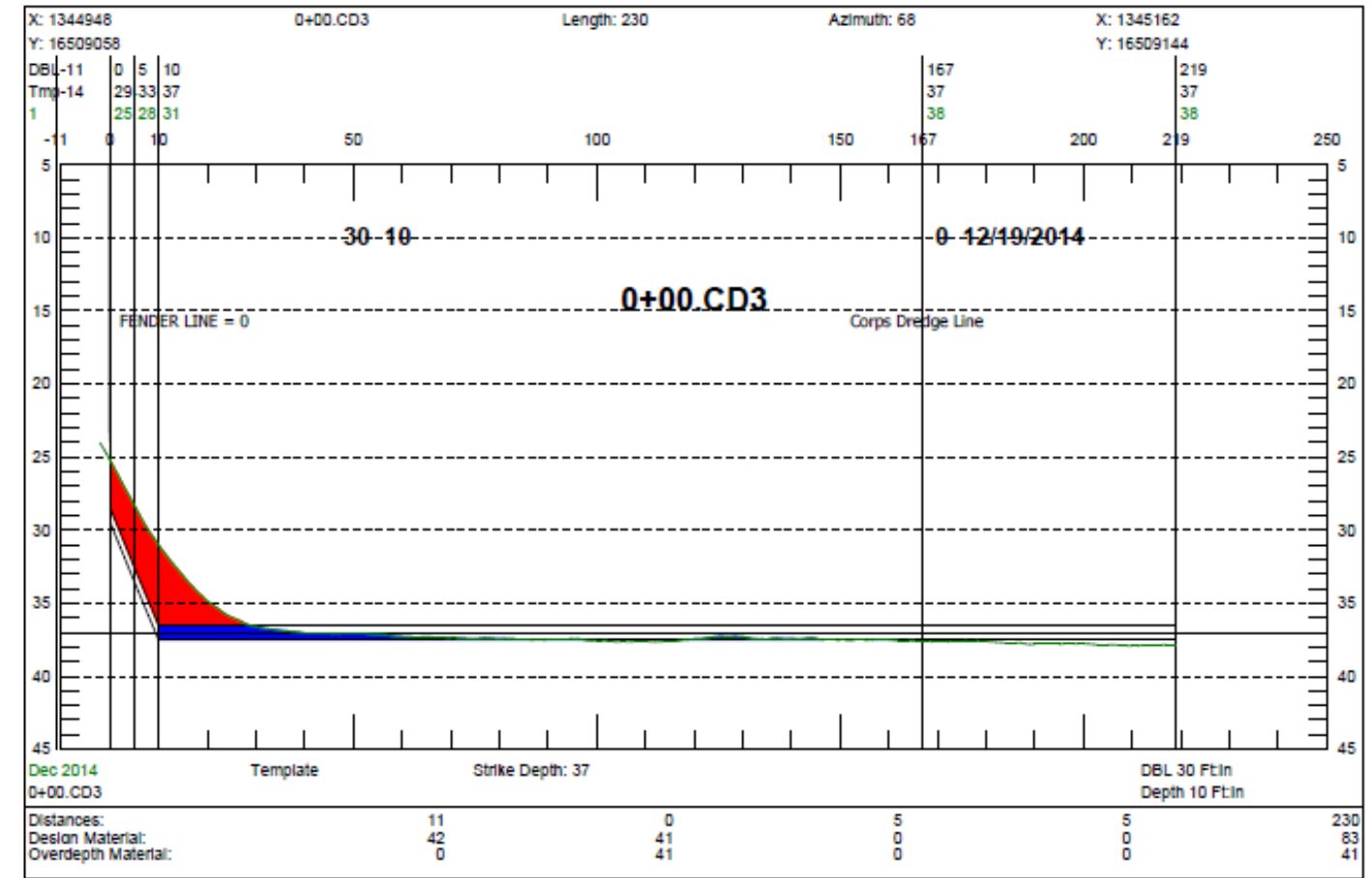
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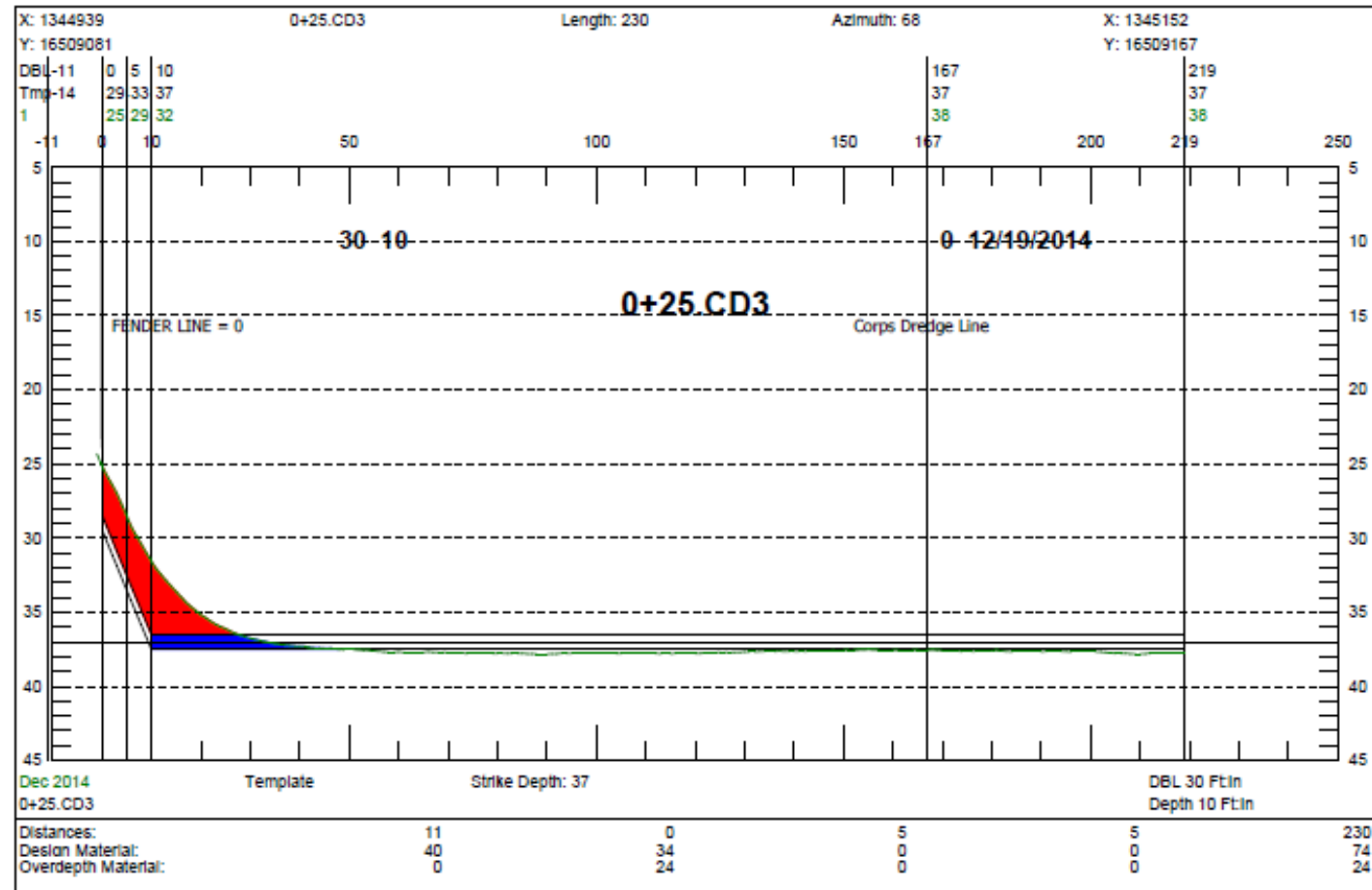


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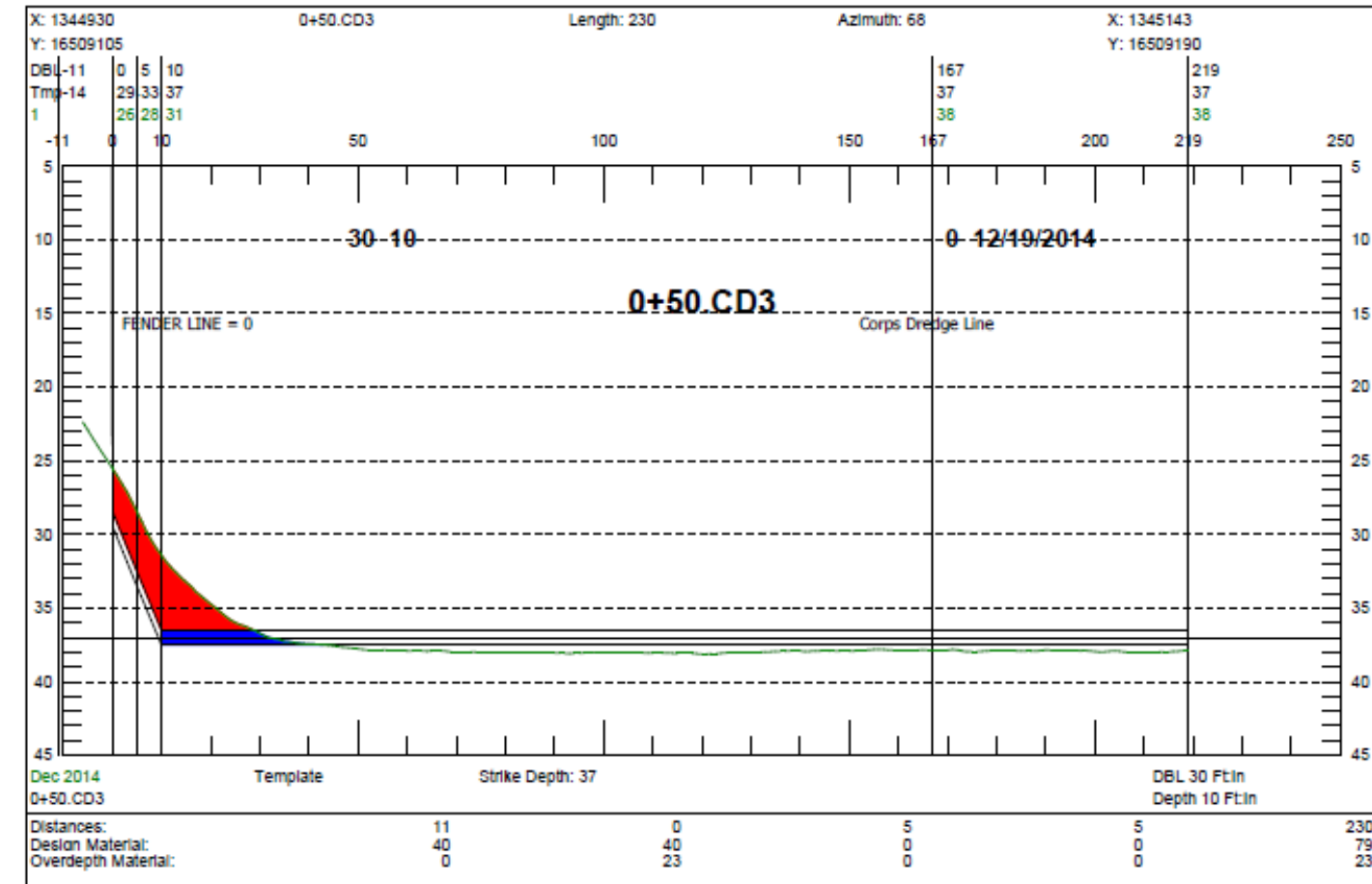


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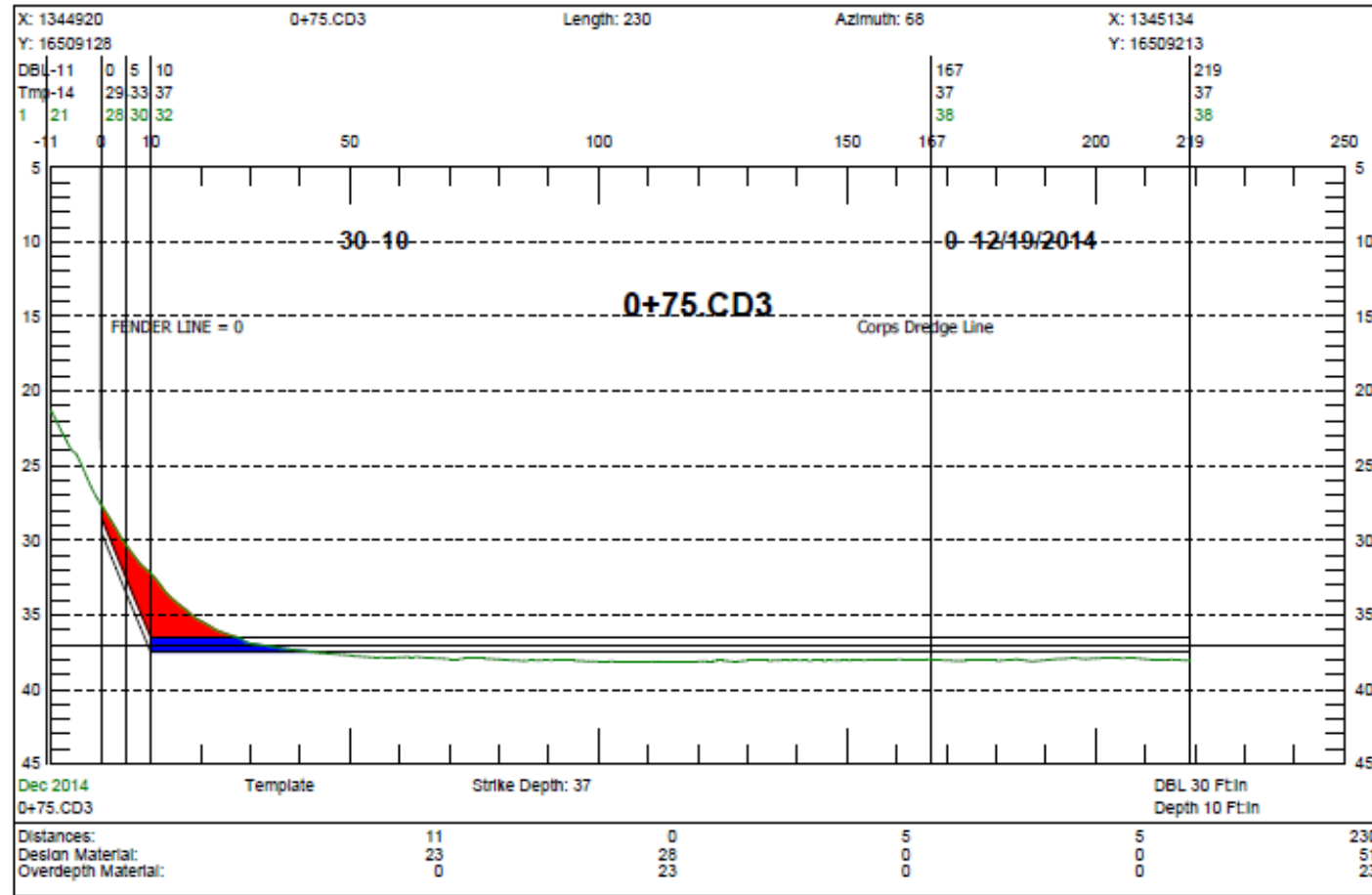




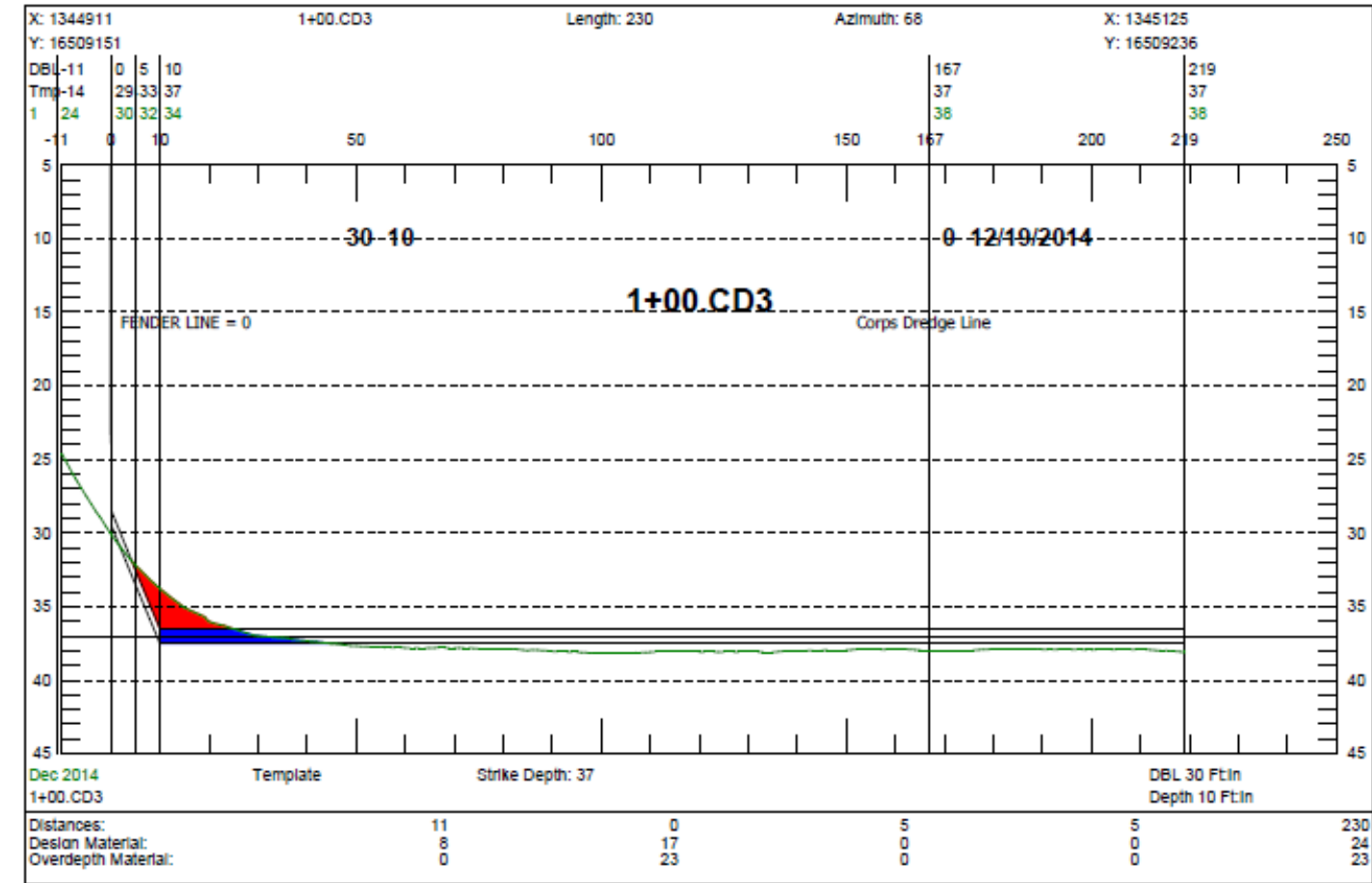
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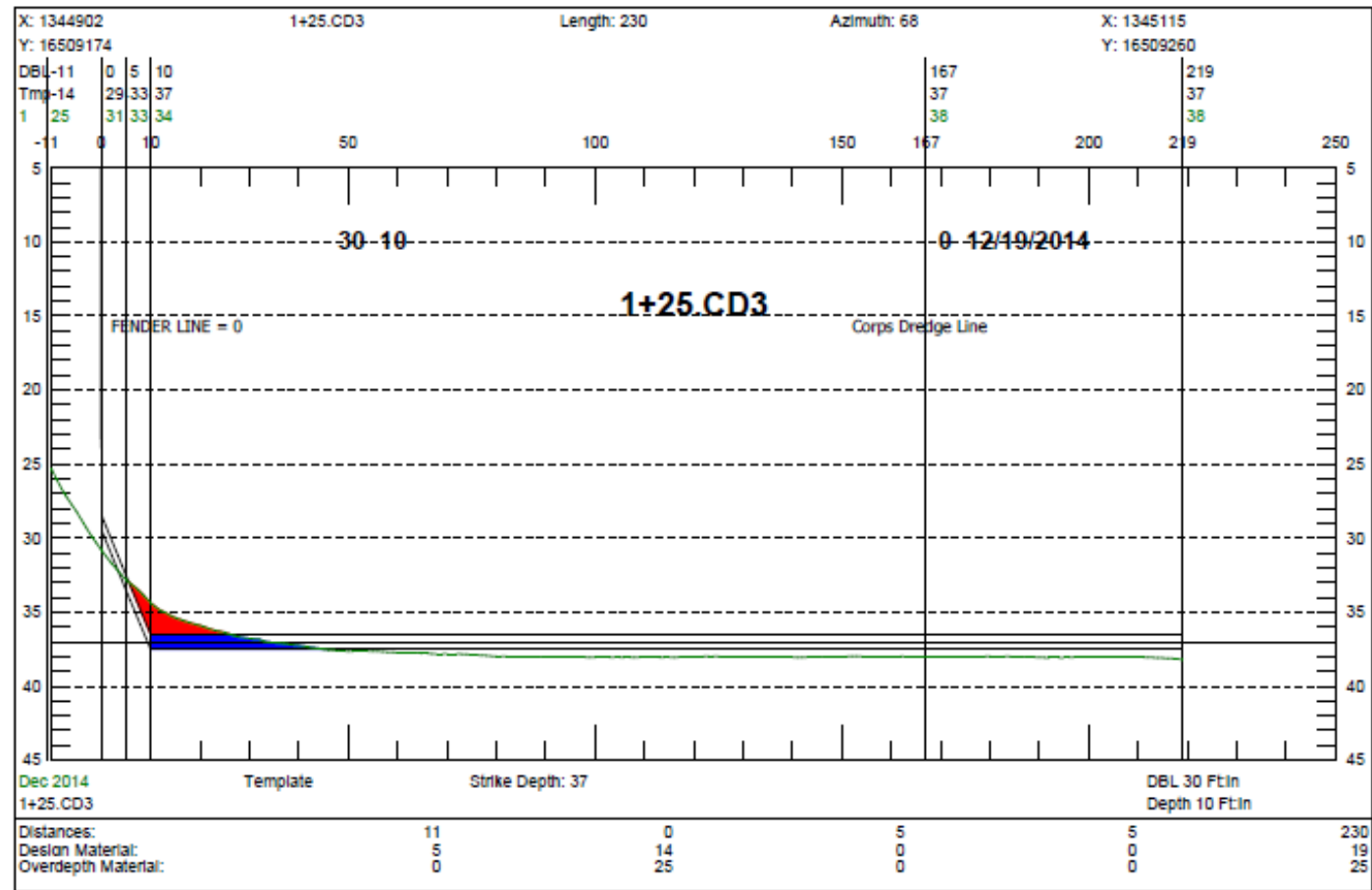
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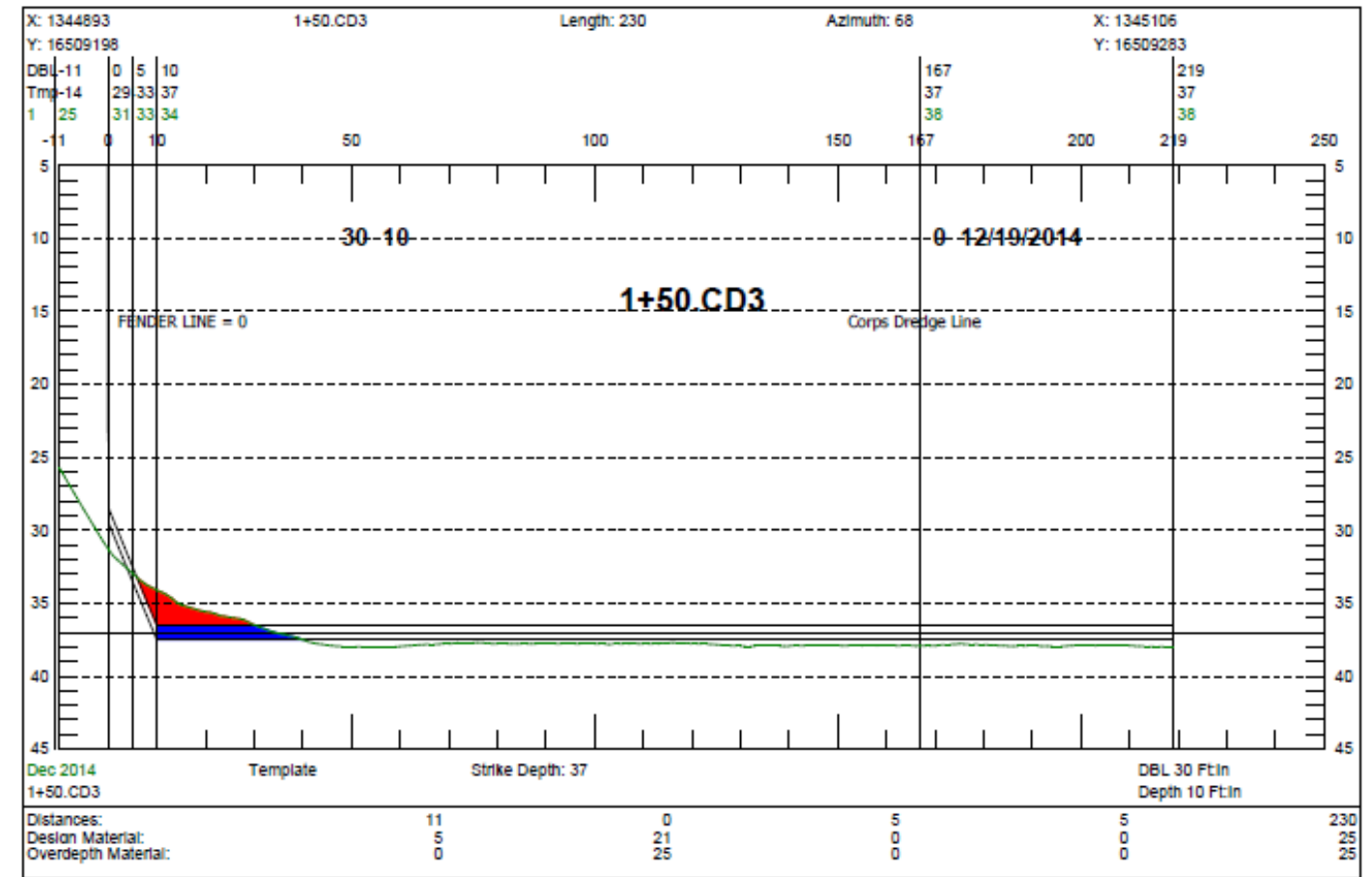
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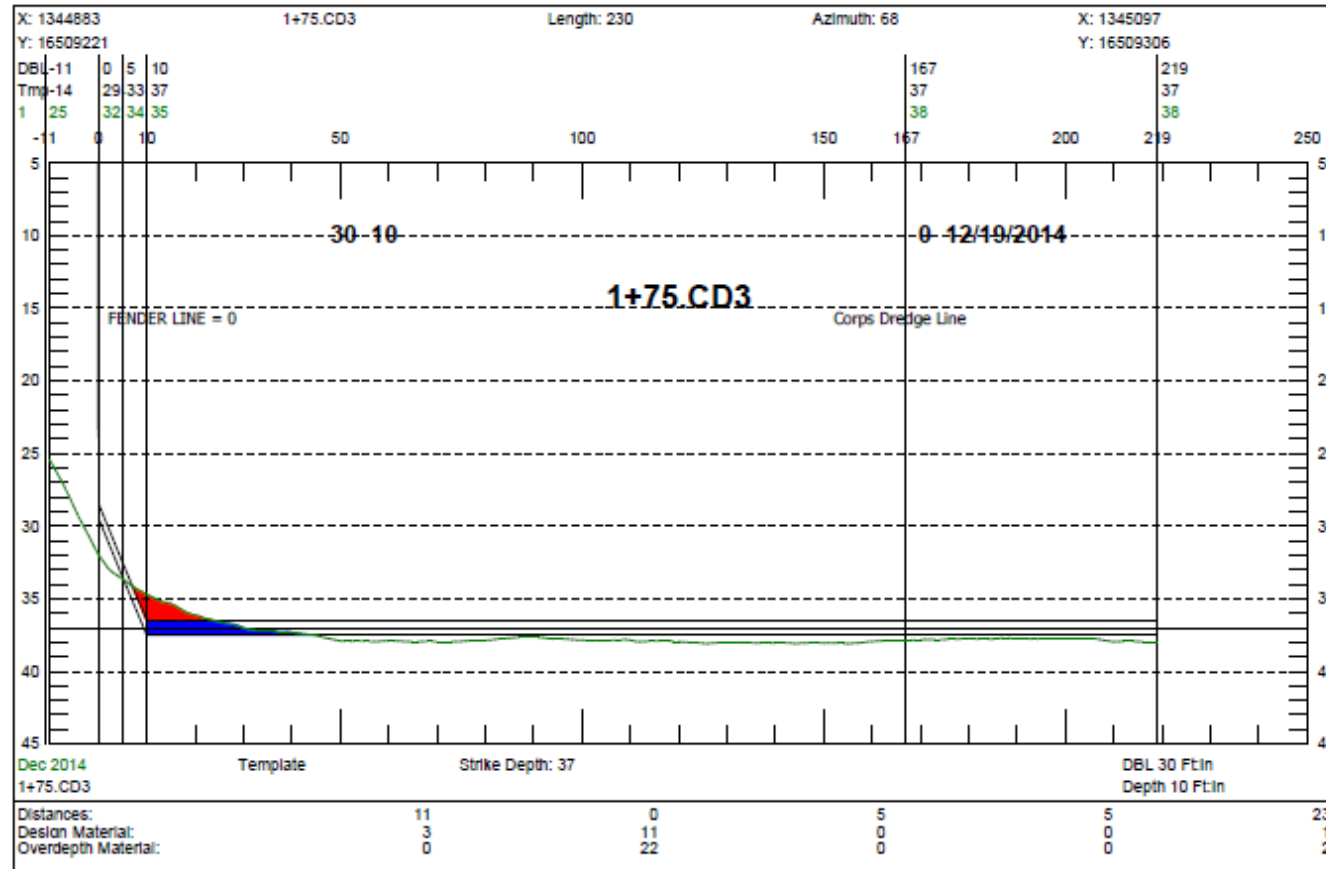
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