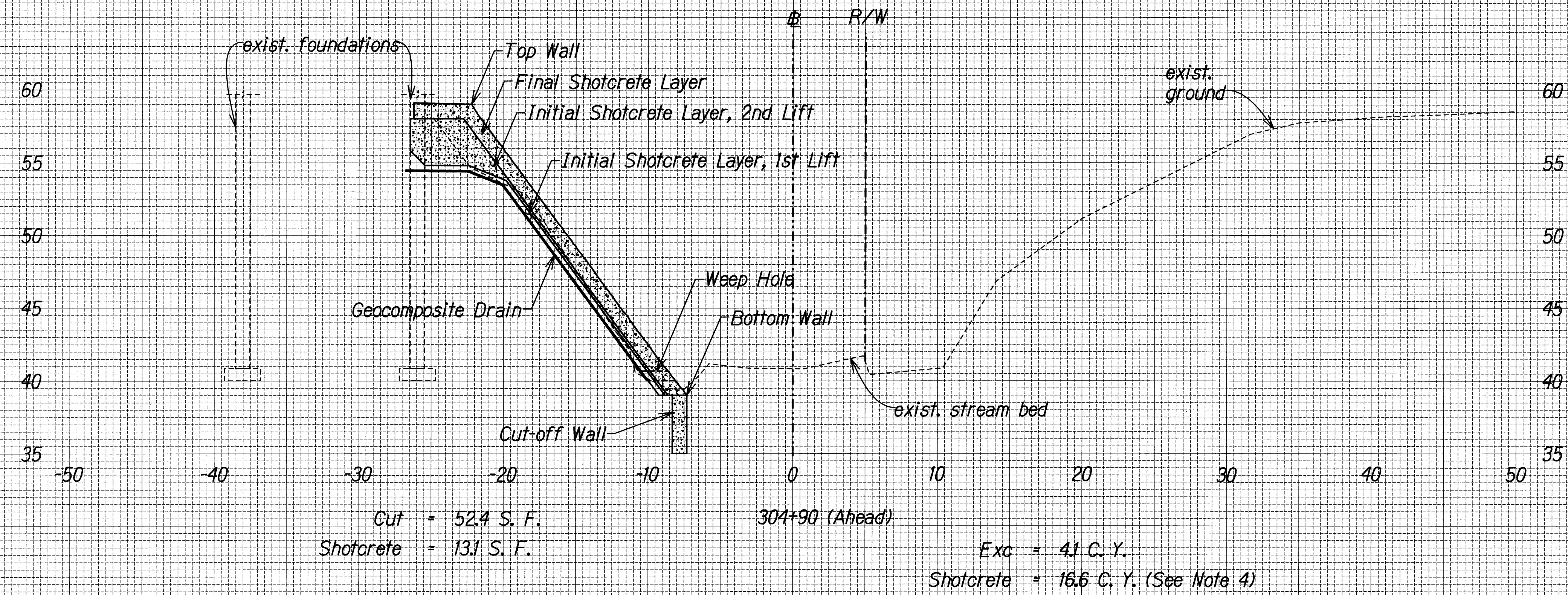
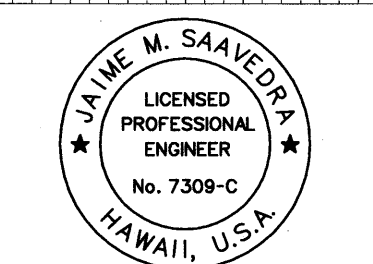
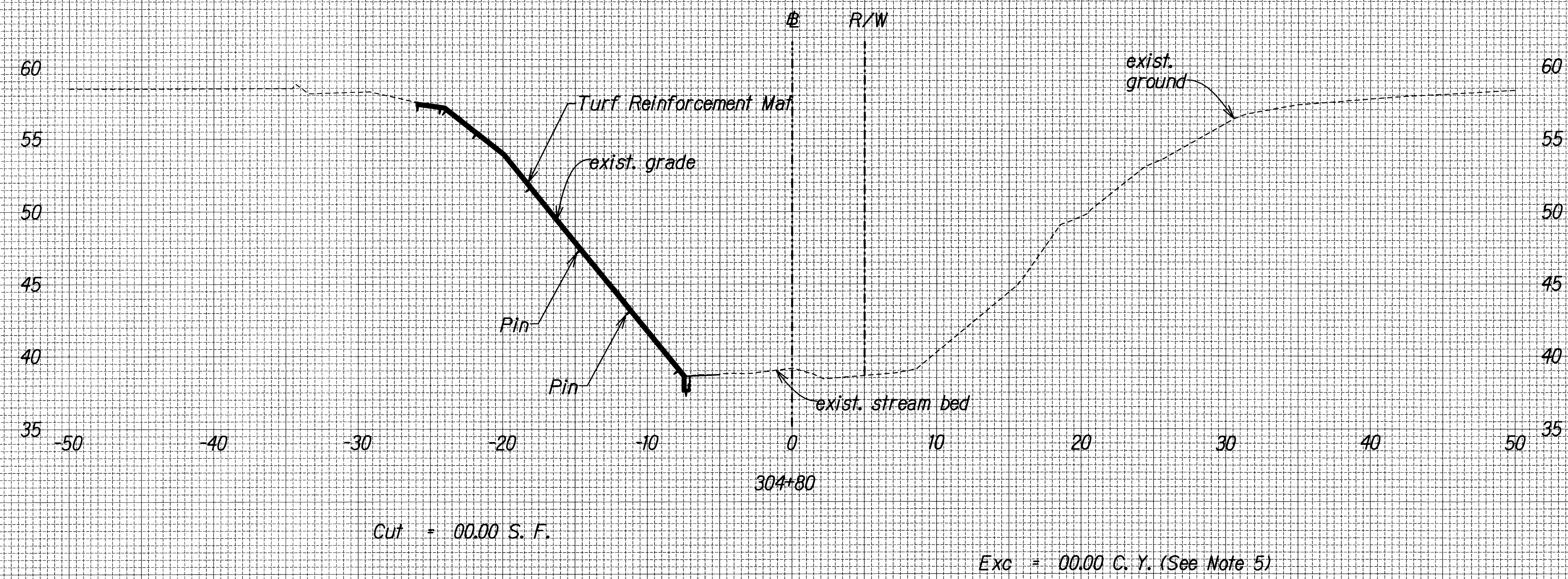


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	28	49

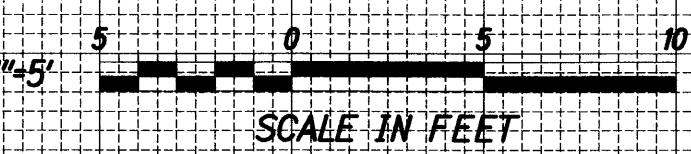


- NOTES:**
- For top wall and bottom wall elevations, See Table Sht. No. SN-3.
 - Shotcrete quantities shown include Initial Shotcrete Layer, 1st Lift, Initial Shotcrete Layer, 2nd Lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete Layer includes Sculpted Rock Finish Texture.
 - Square Footage of Fill shown on Cross Section are for shotcrete fill materials.
 - Shotcrete quantity includes thickened edge of Shotcrete Wall from Sta. 304+88.5 to Sta. 304+90.
 - Quantity of T.R.M. excavation is from Sta. 304+80 to Sta. 304+88.5. T.R.M. excavation will be incidental to various contract items.

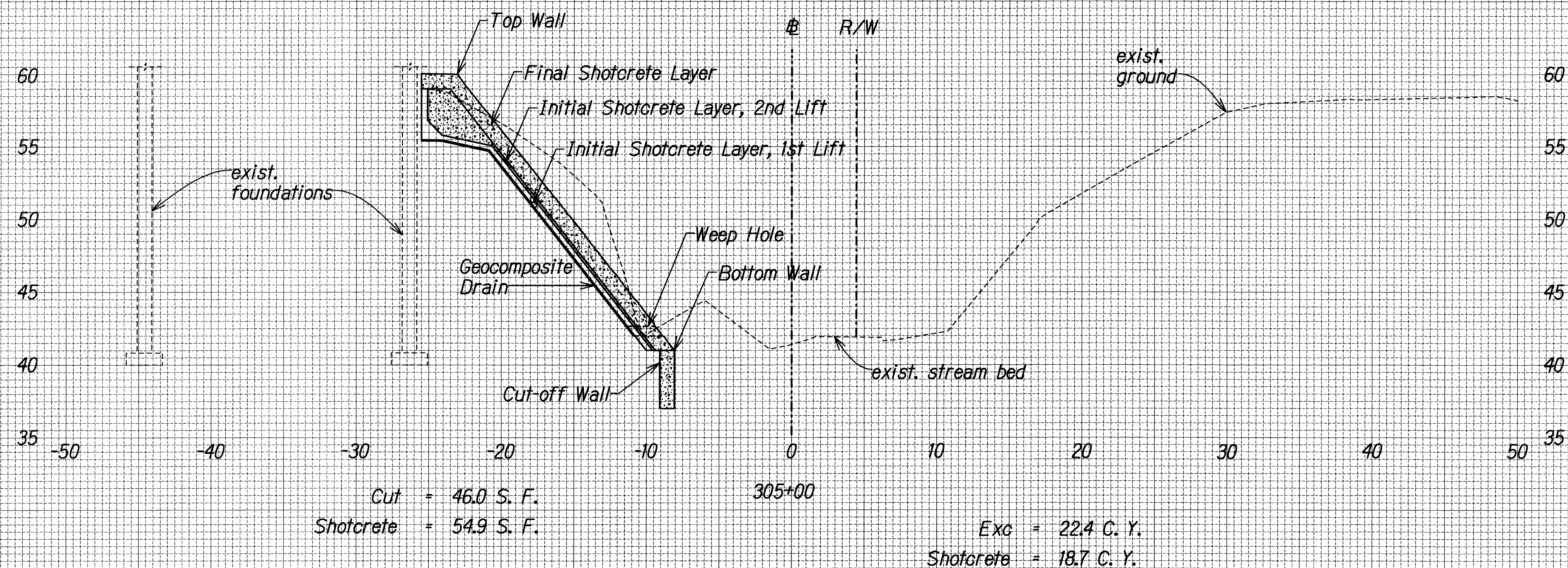
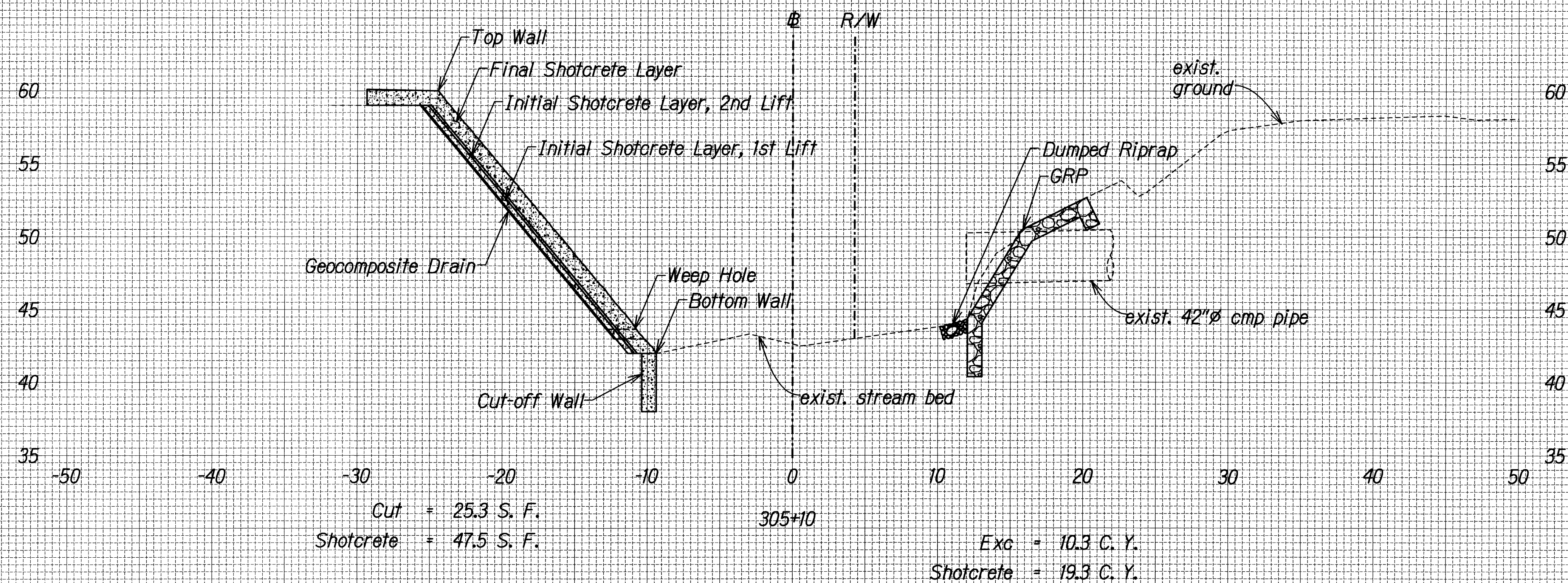


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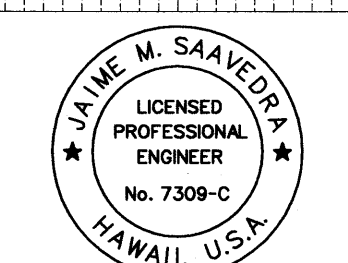


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	29	49



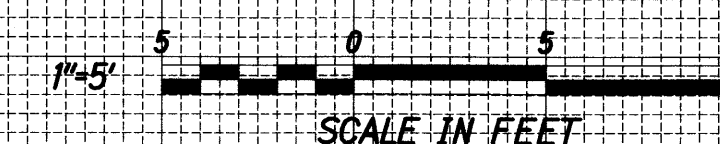
NOTES:

1. For top wall and bottom wall elevations, See Table Sht. No. SN-3.
2. Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
3. Square Footage of Fill shown on Cross Section are for shotcrete fill materials.
4. Excavation for GRP at exist 42-inch CMP not included in excavation quantity for X-Section Sta. 305+10.

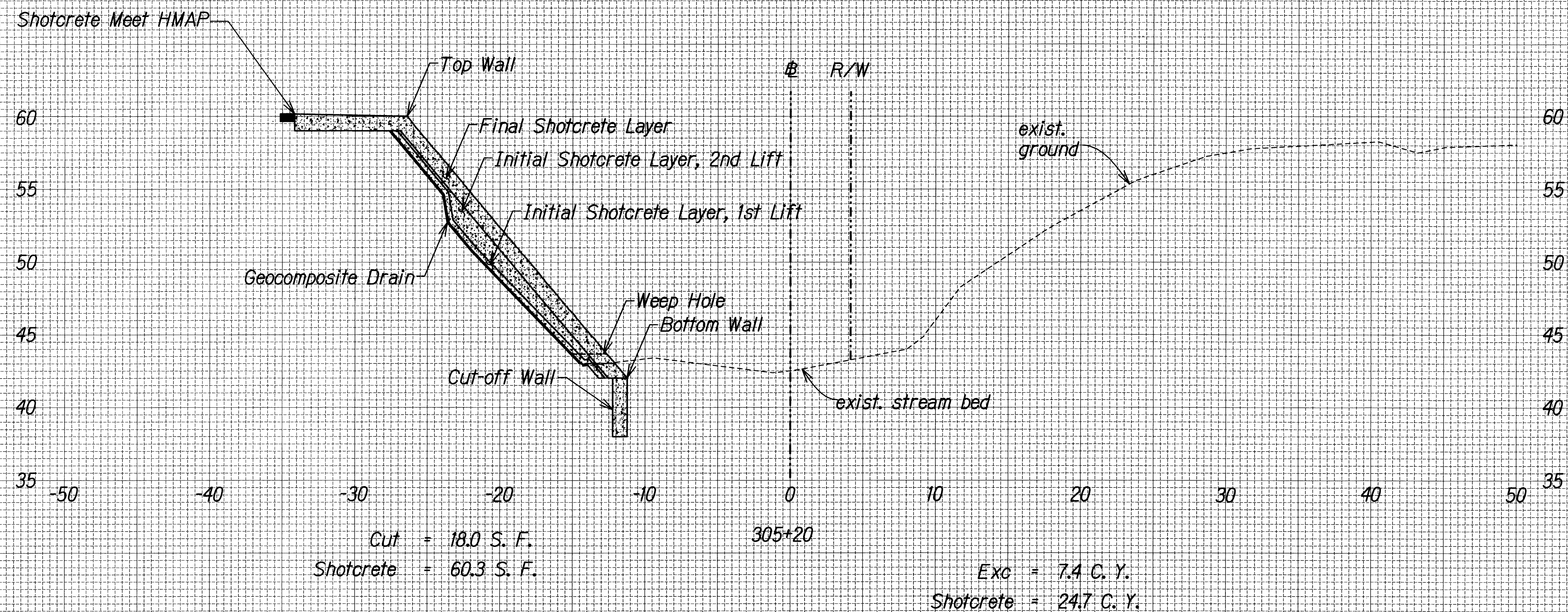
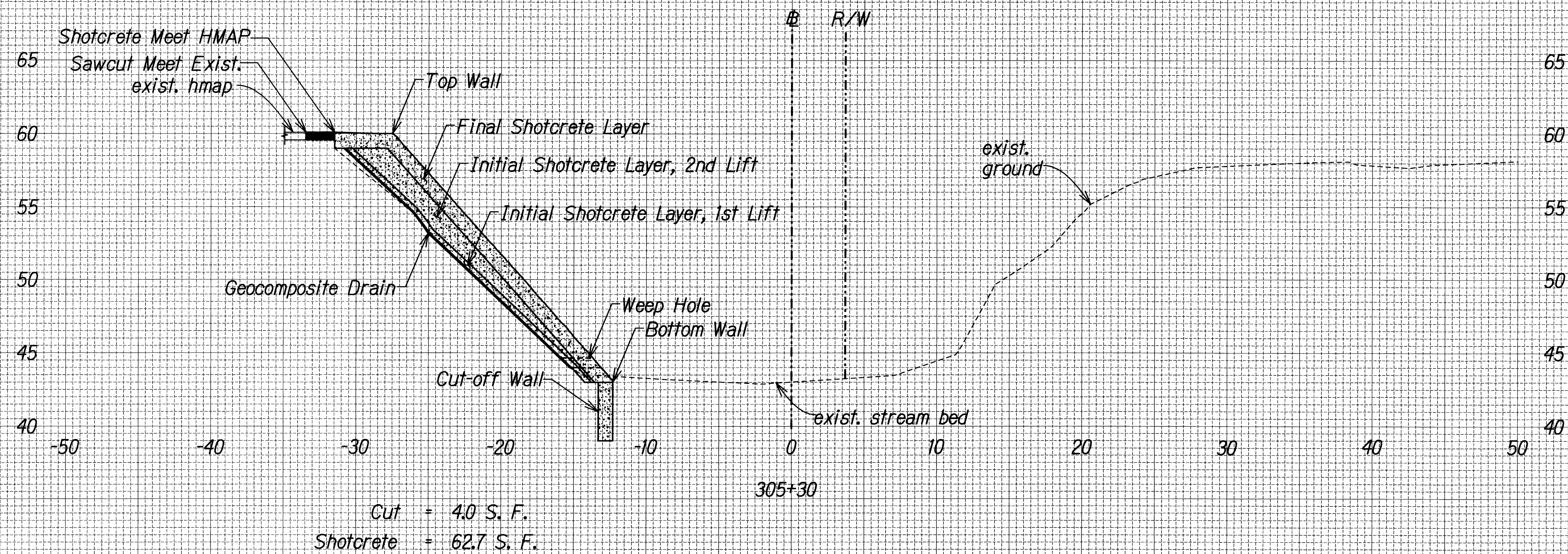


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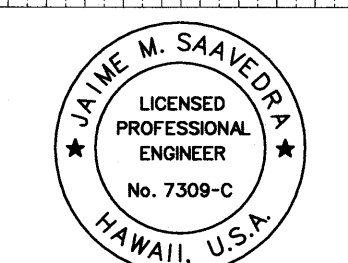


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	30	49



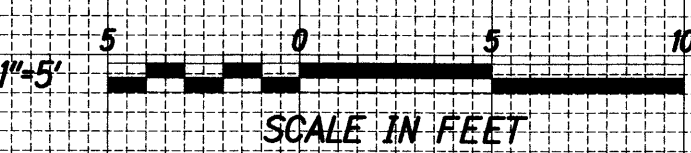
NOTES:

- For top wall and bottom wall elevations, See Table Sht. No. SN-3.
- Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
- Square Footage of Fill shown on Cross Section are for shotcrete fill materials.

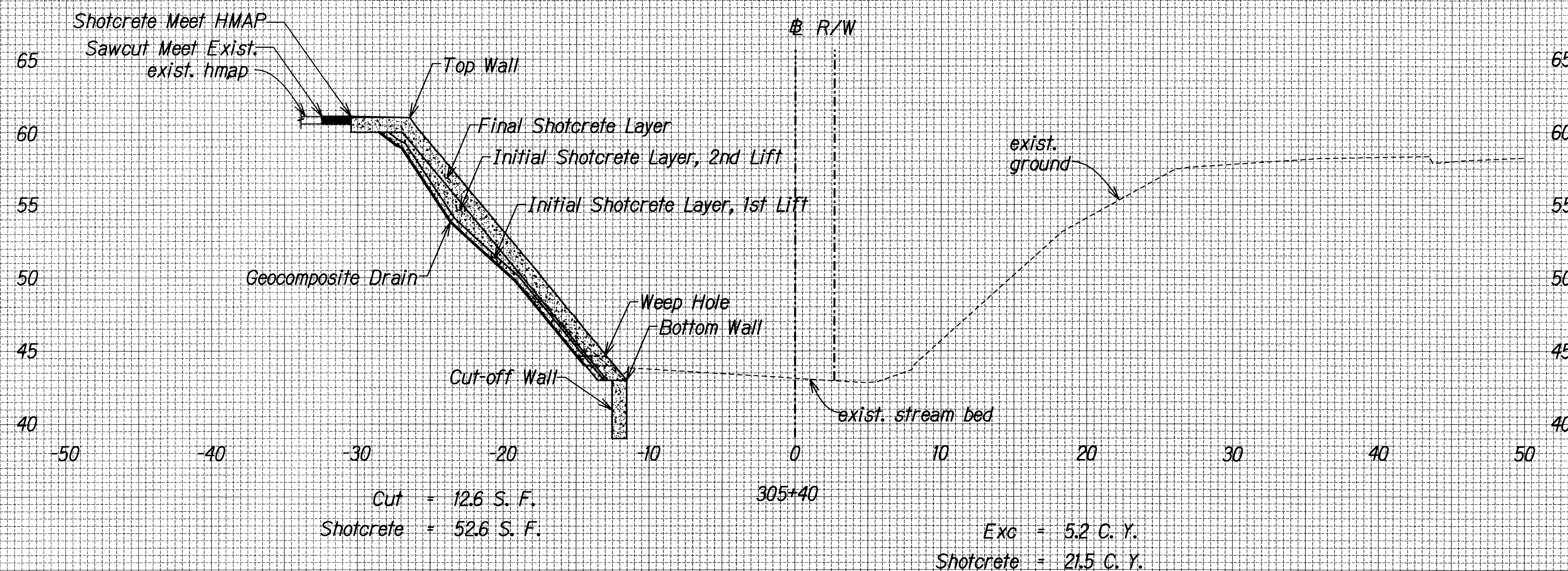
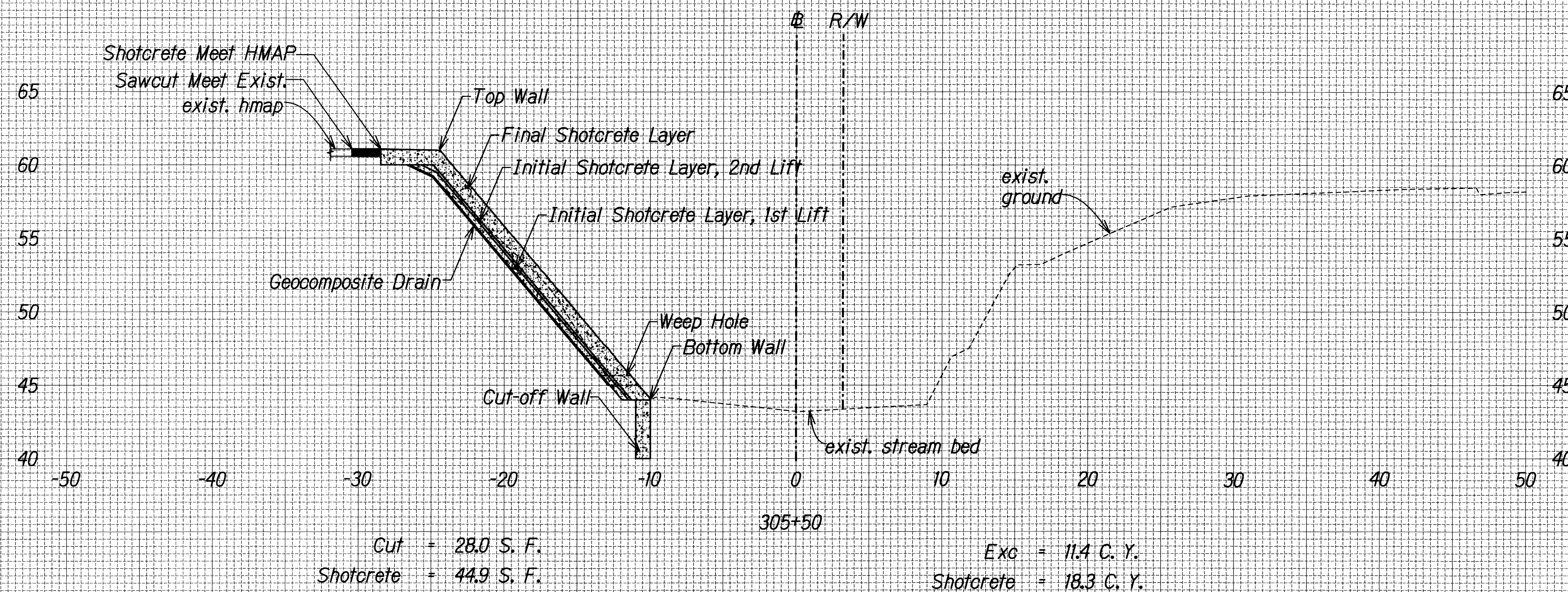


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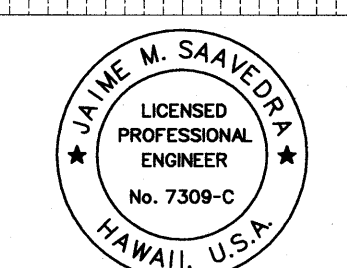


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	31	49

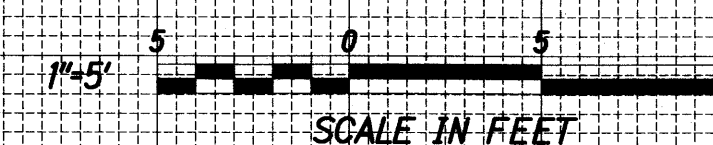


NOTES:

- For top wall and bottom wall elevations, See Table Sht. No. SN-3.
- Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
- Square Footage of Fill shown on Cross Section are for shotcrete fill materials.



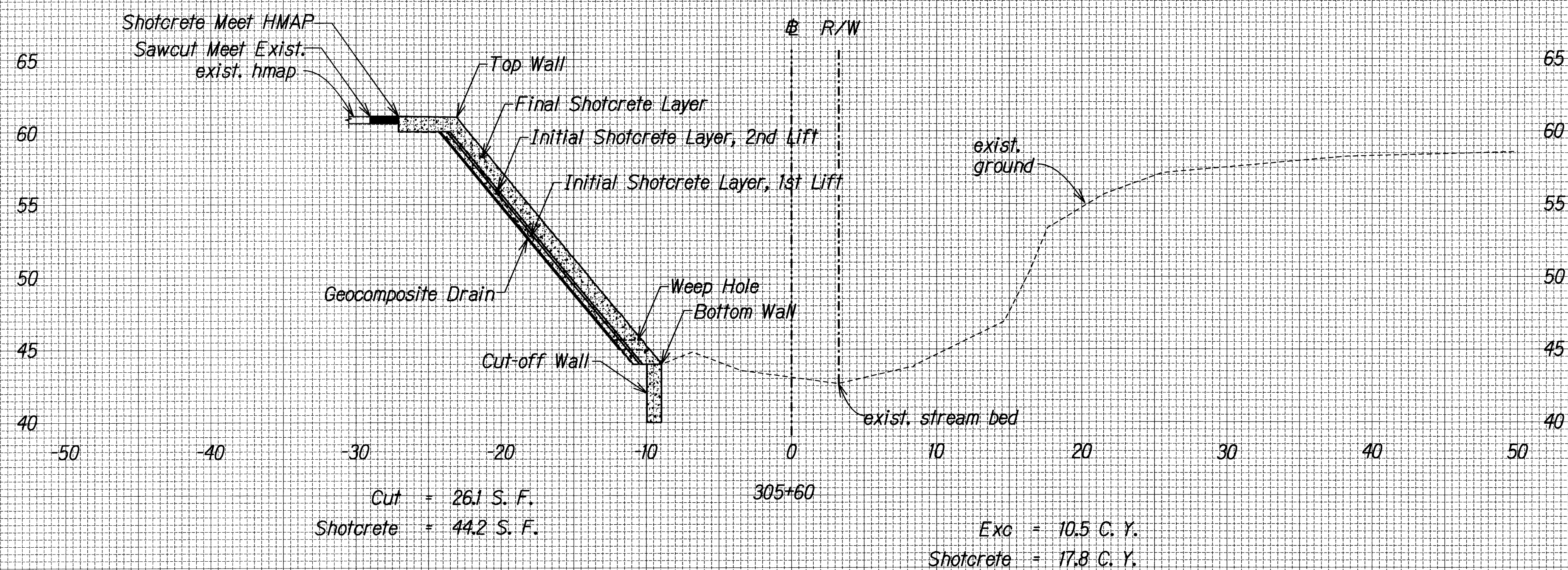
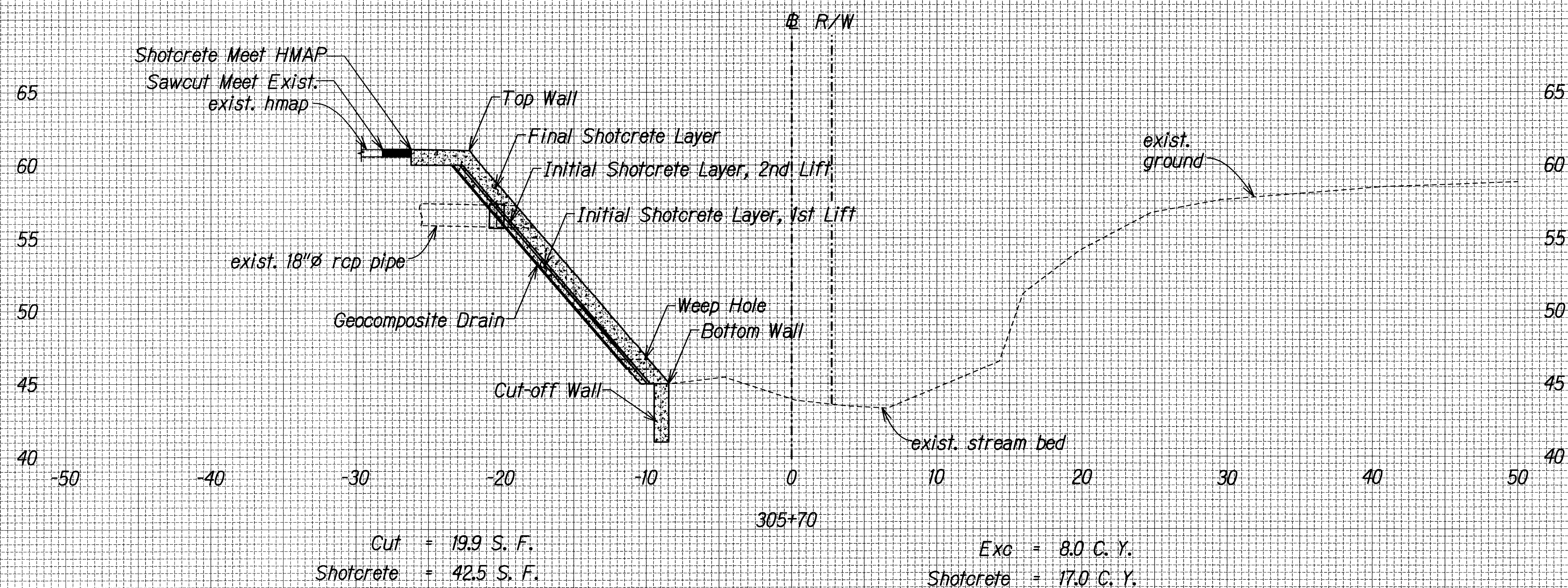
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ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

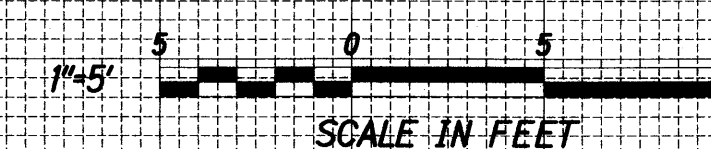
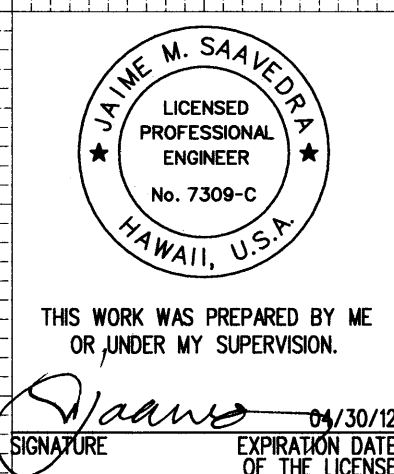
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1E-01-11M	2012	32	49



NOTES:

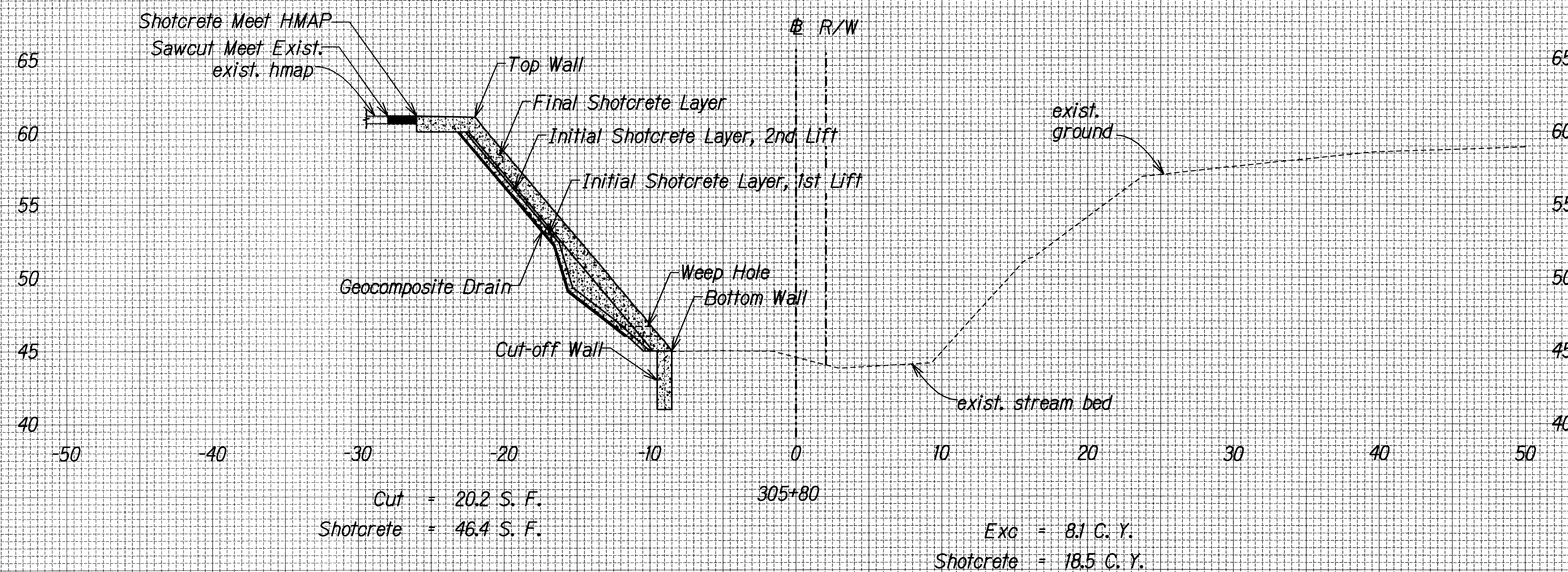
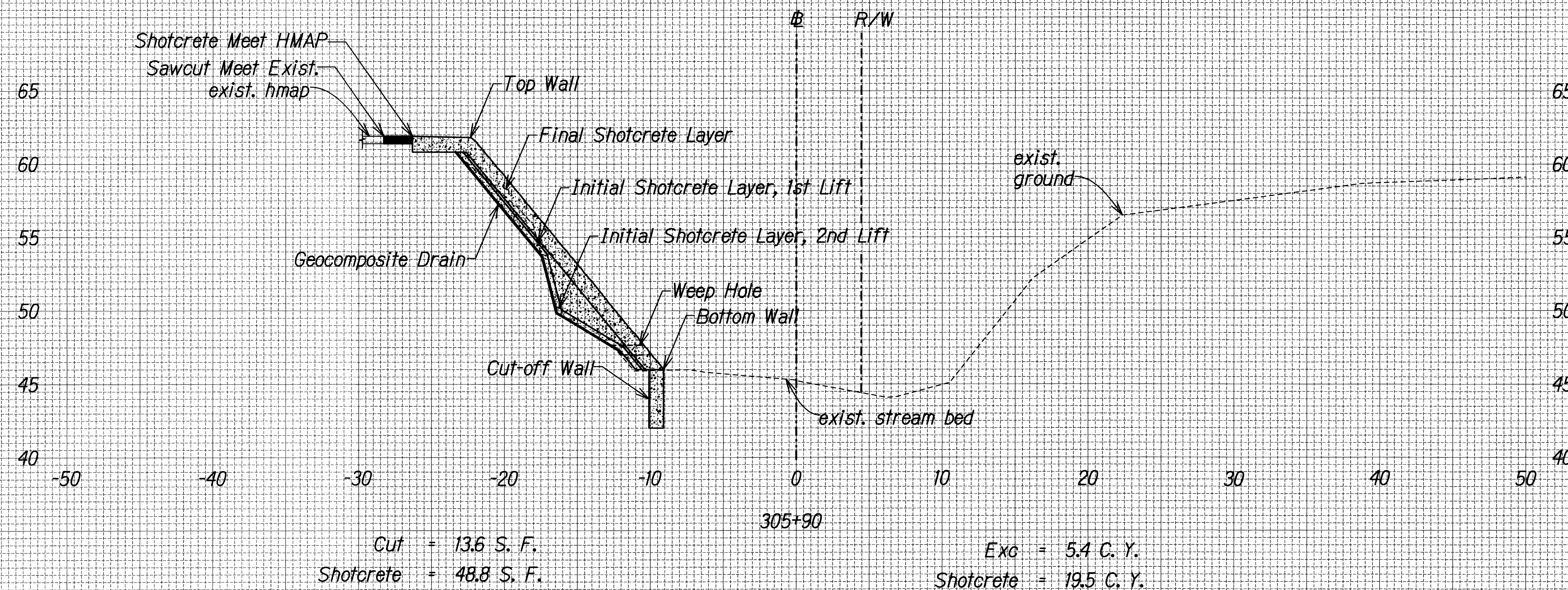
1. For top wall and bottom wall elevations, See Table Sht. No. SN-3.
2. Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
3. Square Footage of Fill shown on Cross Section are for shotcrete fill materials.



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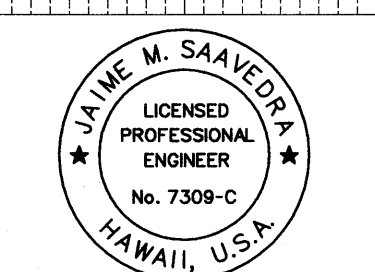
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	33	49

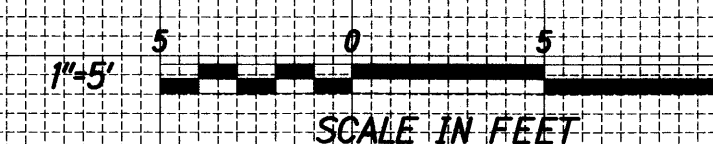


NOTES:

1. For top wall and bottom wall elevations, See Table Sht. No. SN-3.
2. Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
3. Square Footage of Fill shown on Cross Section are for shotcrete fill materials.



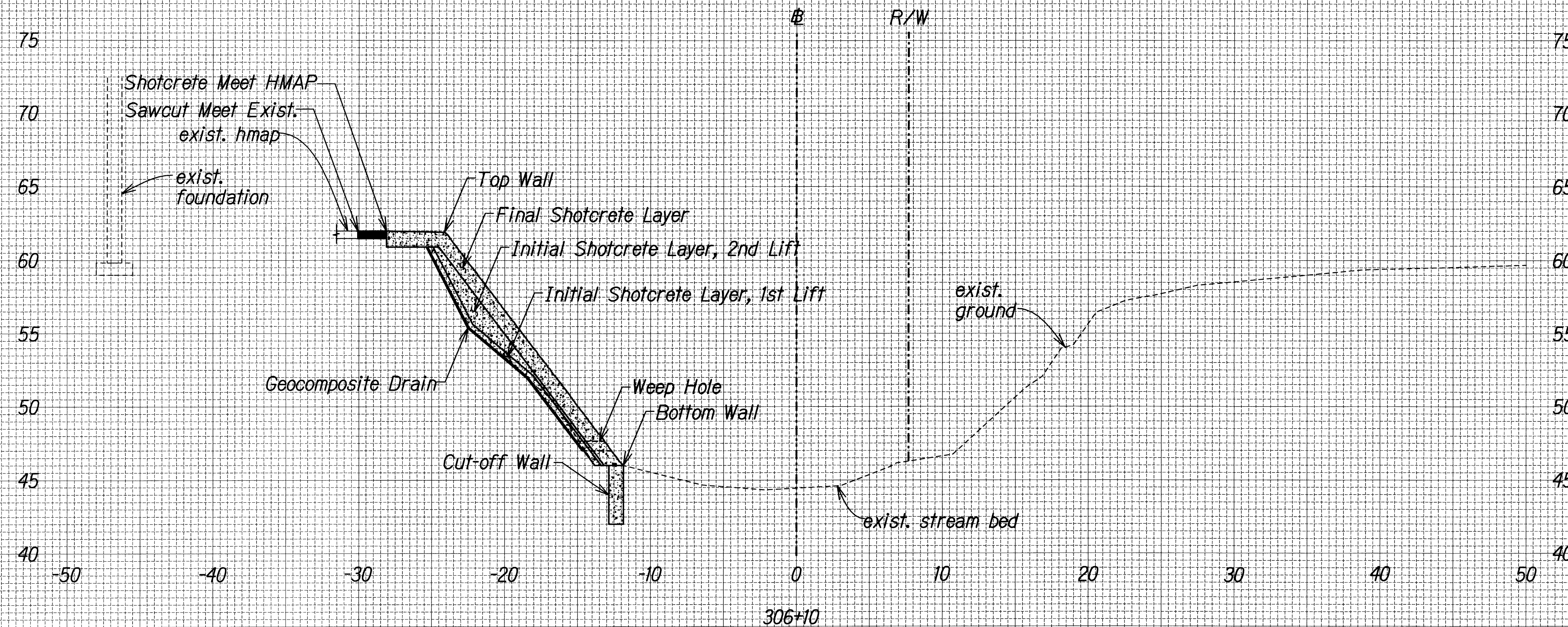
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OF THE LICENSE



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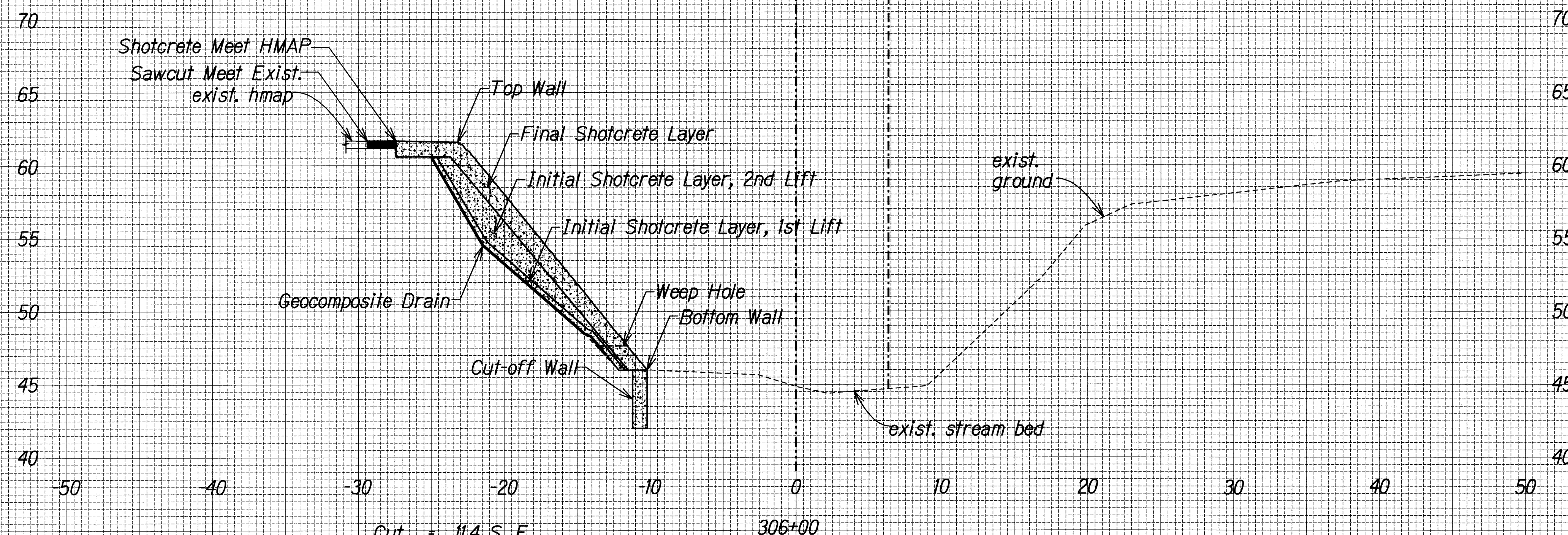
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	34	49



Cut = 24.7 S. F.
Shotcrete = 48.1 S. F.

Exc = 10.0 C. Y.
Shotcrete = 19.6 C. Y.

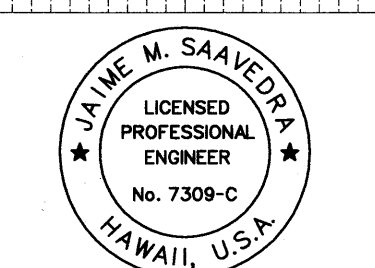


Cut = 11.4 S. F.
Shotcrete = 59.3 S. F.

Exc = 4.6 C. Y.
Shotcrete = 24.0 C. Y.

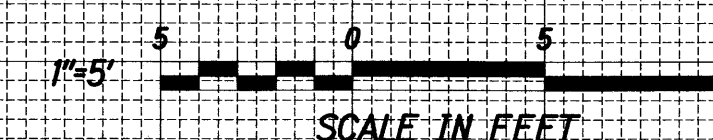
NOTES:

1. For top wall and bottom wall elevations, See Table Shf. No. SN-3.
2. Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
3. Square Footage of Fill shown on Cross Section are for shotcrete fill materials.



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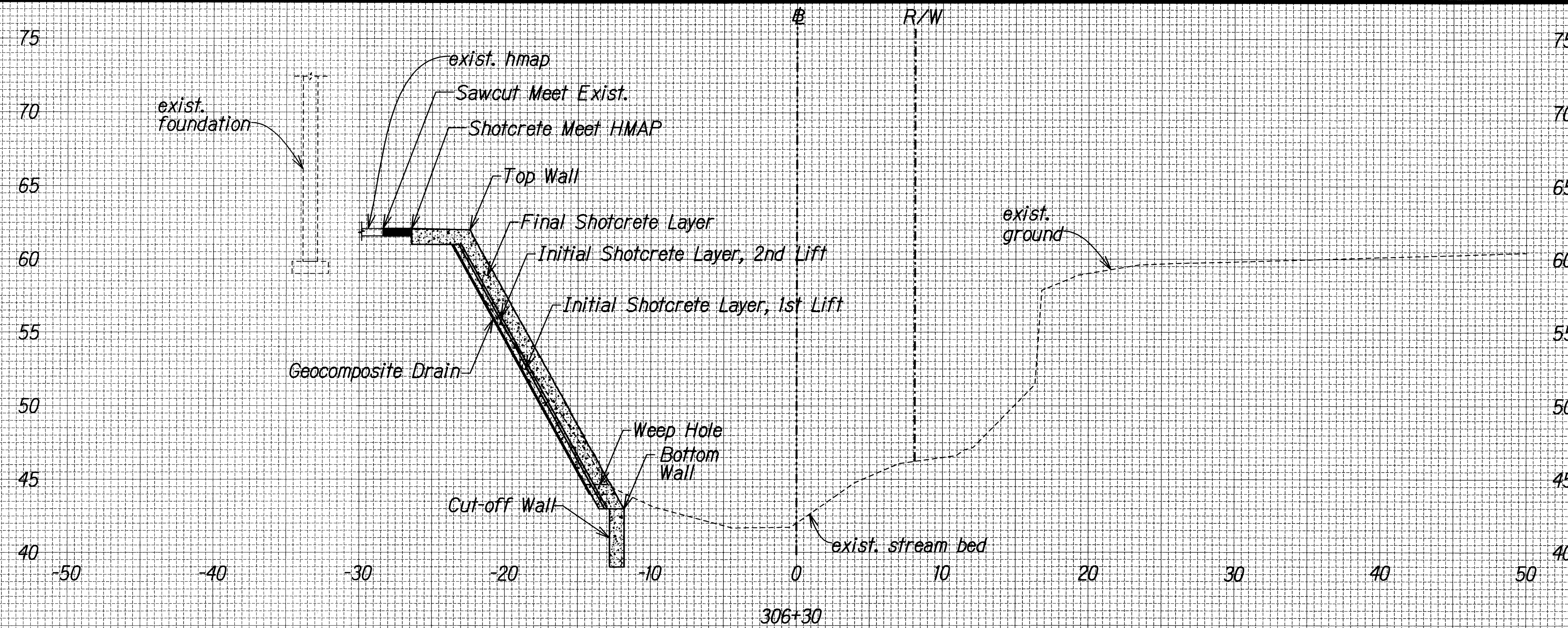
SIGNATURE: *W. SAAVEDRA* DATE: 04/30/12 EXPIRATION DATE OF THE LICENSE



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QUANTITIES BY	
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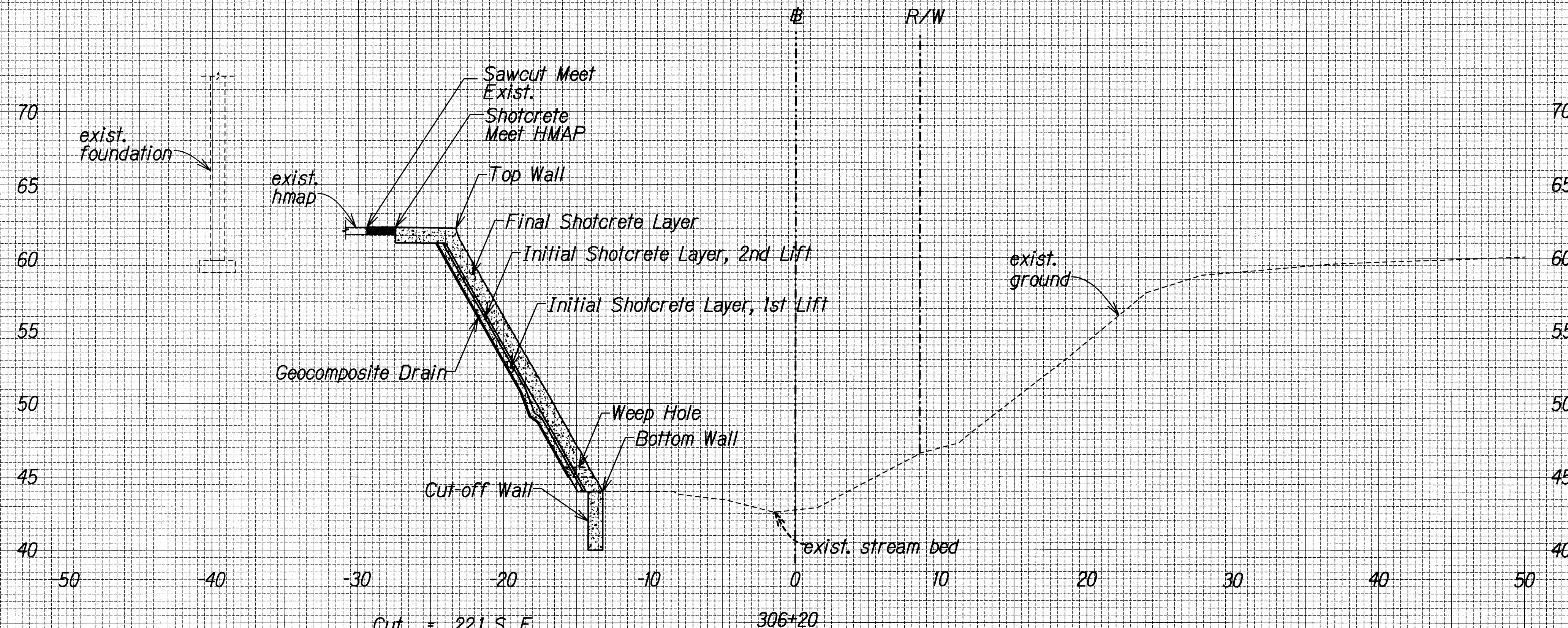
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1E-01-11M	2012	35	49



Cut = 35.8 S. F.
Shotcrete = 43.3 S. F.

Exc = 14.5 C. Y.
Shotcrete = 17.5 C. Y.

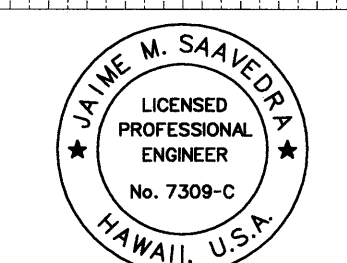


Cut = 22.1 S. F.
Shotcrete = 42.3 S. F.

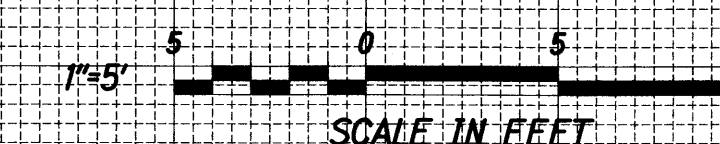
Exc = 8.9 C. Y.
Shotcrete = 17.1 C. Y.

NOTES:

- For top wall and bottom wall elevations, See Table Sht. No. SN-3.
- Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
- Square Footage of Fill shown on Cross Section are for shotcrete fill materials.



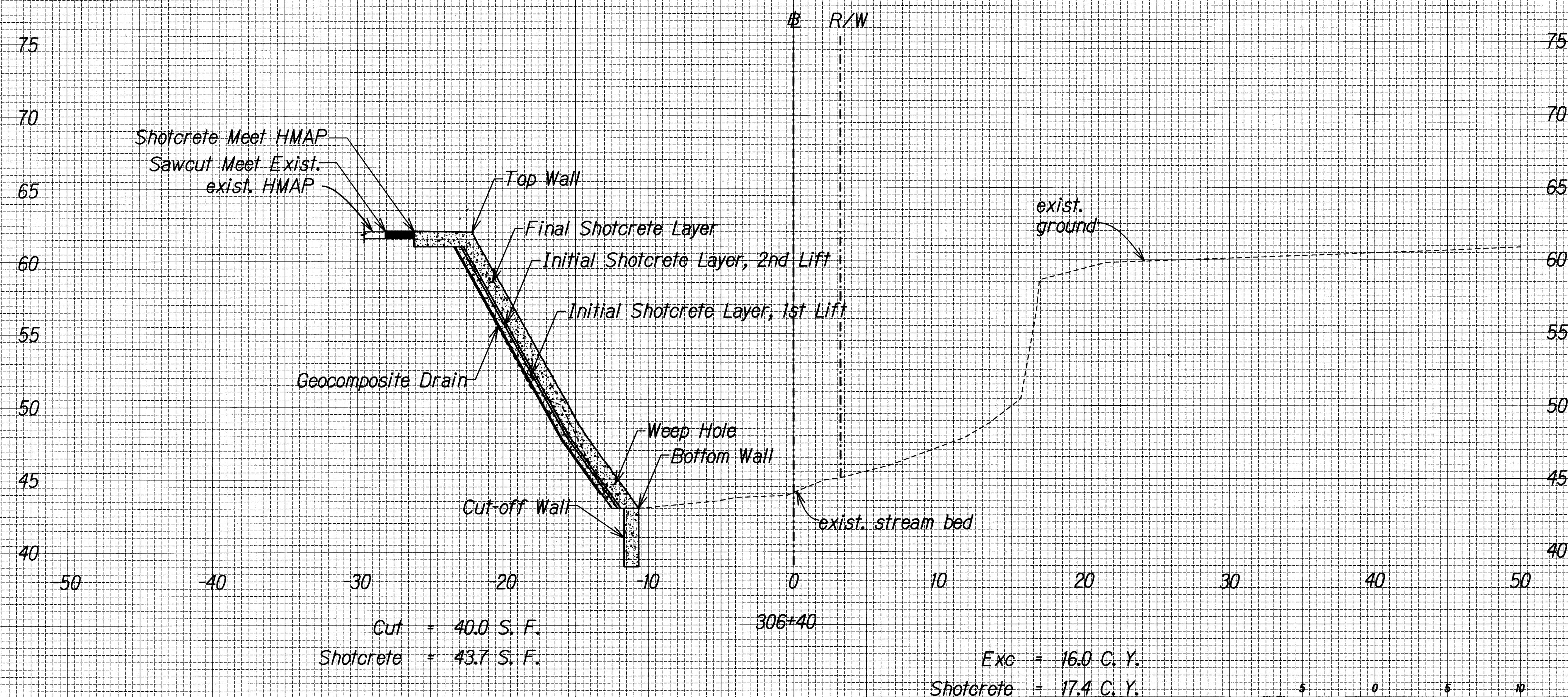
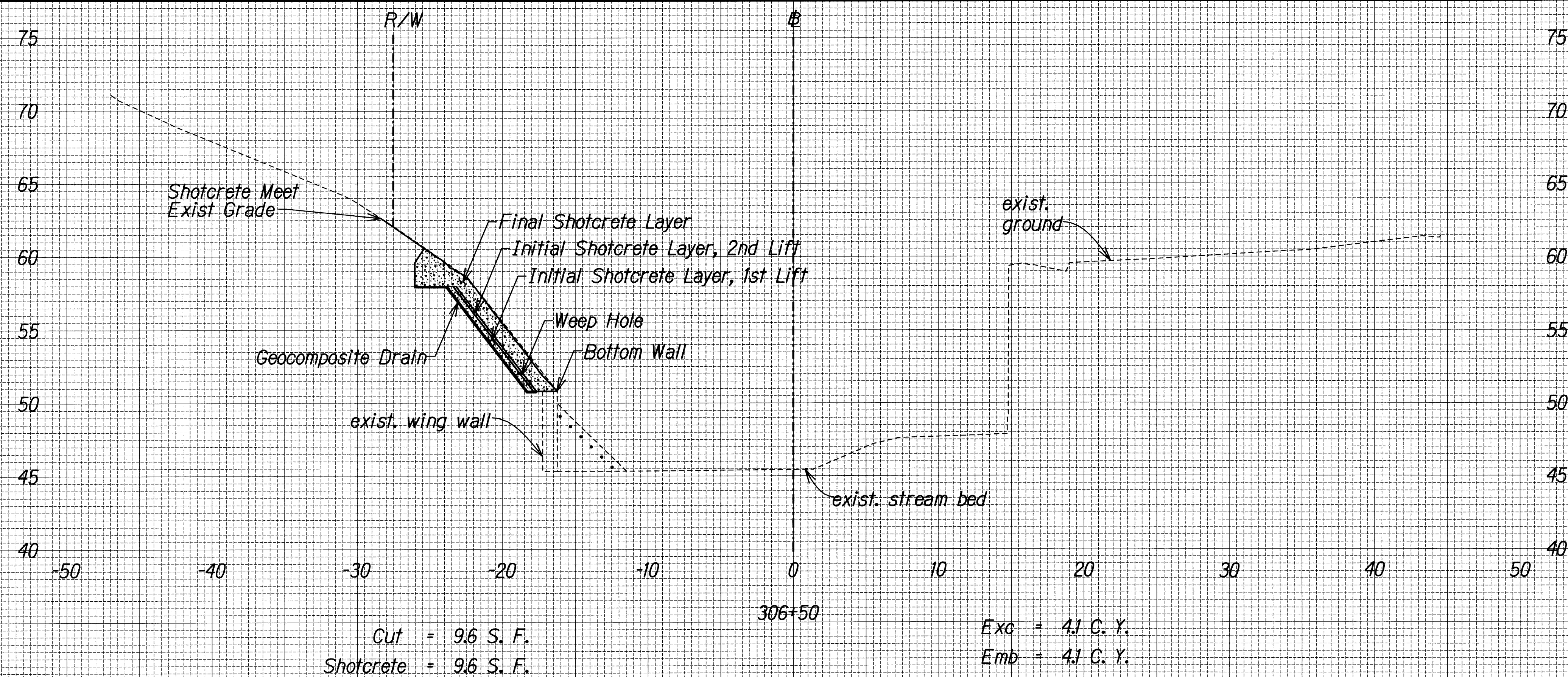
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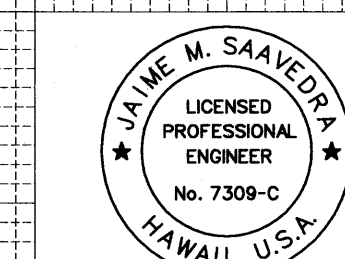
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-11M	2012	36	49



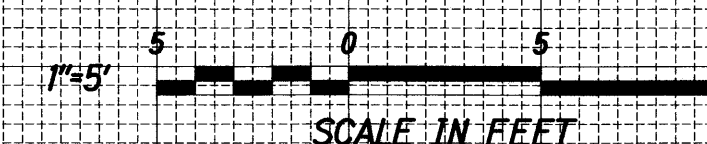
NOTES:

- For top wall and bottom wall, elevations, See Table Sht. No. SN-3.
- Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
- Square Footage of Fill shown on Cross Section are for shotcrete fill materials.

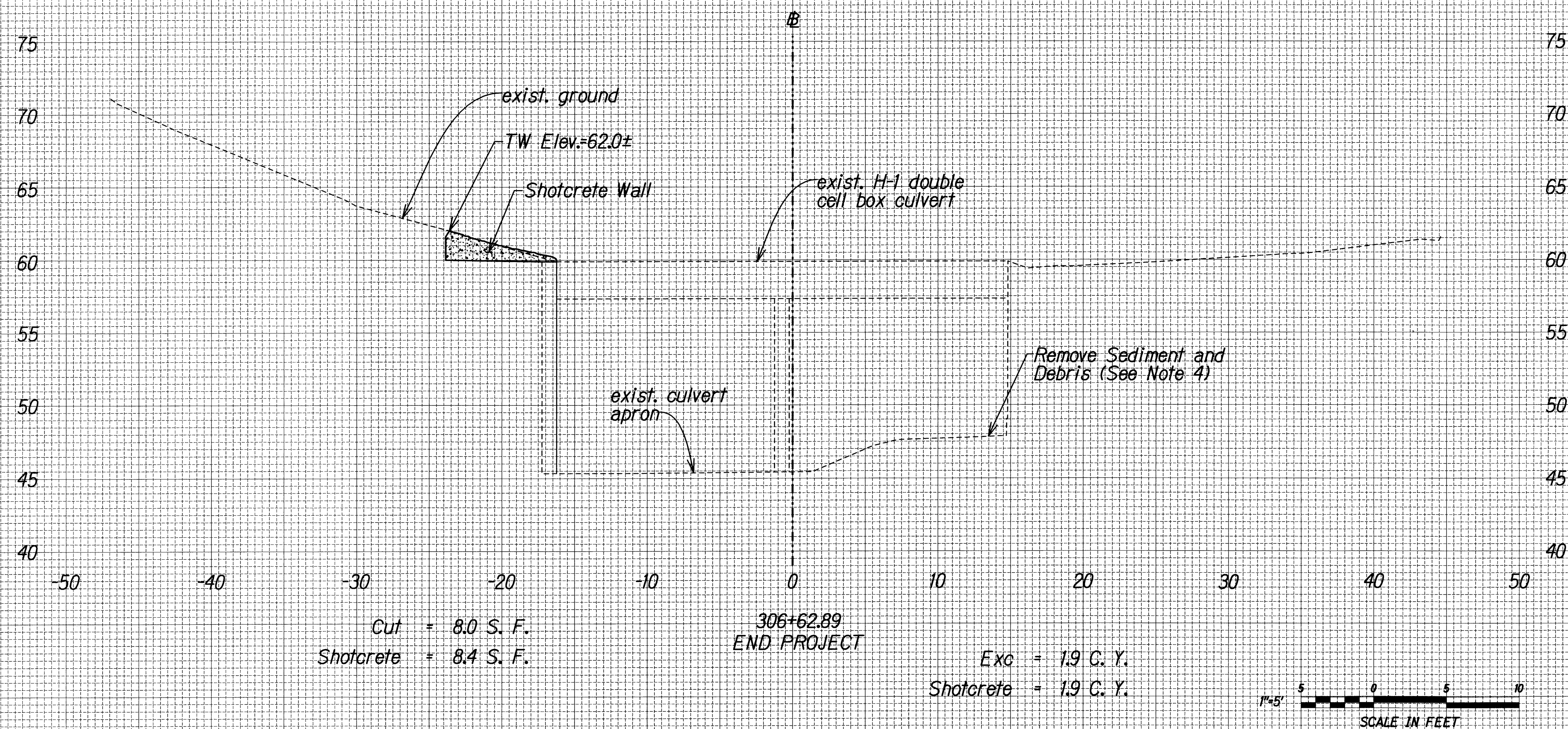


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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1E-01-11M	2012	37	49



- NOTES:**
1. For top wall and bottom wall elevations, See Table Sht. No. SN-3.
 2. Shotcrete quantities shown include Initial Shotcrete Layer, 1st lift, Initial Shotcrete Layer, 2nd lift, Final Shotcrete Layer, and cutoff wall shotcrete. Final Shotcrete layer includes Sculpted Rock Finish Texture.
 3. Square Footage of Fill shown on Cross Section are for shotcrete fill materials.
 4. See Erosion Control Notes Sht. No. EC-1 Note 2.

