

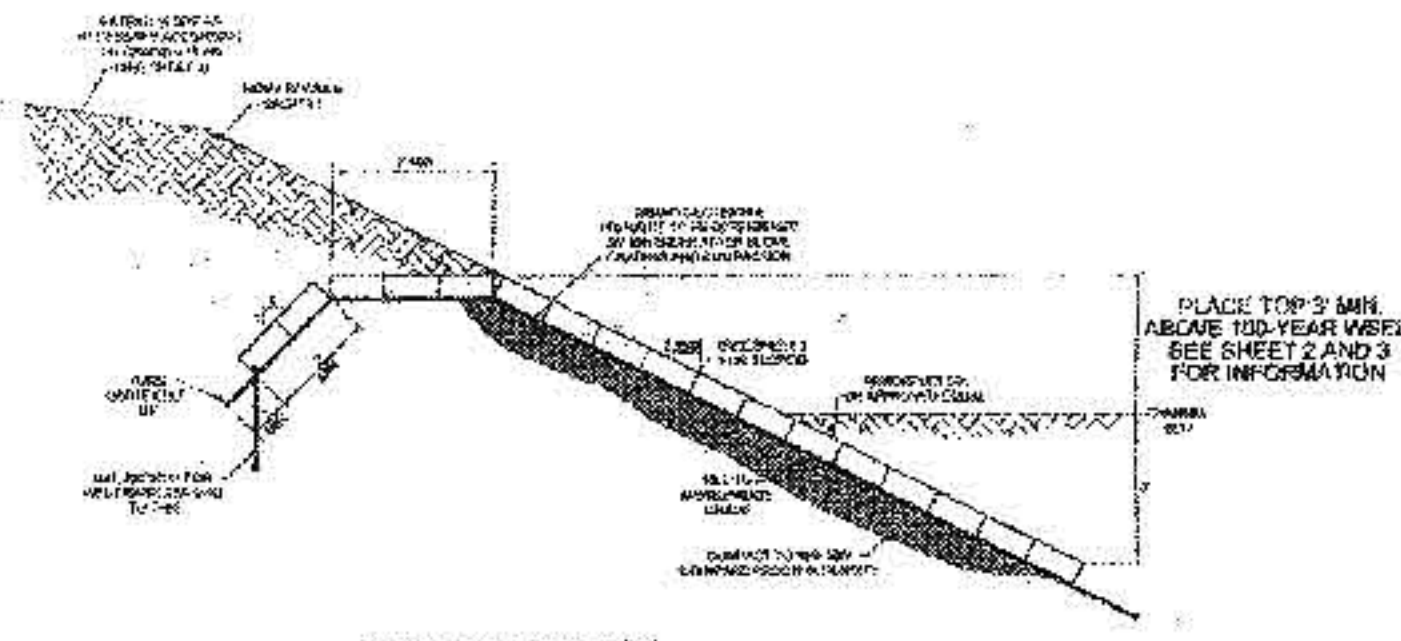
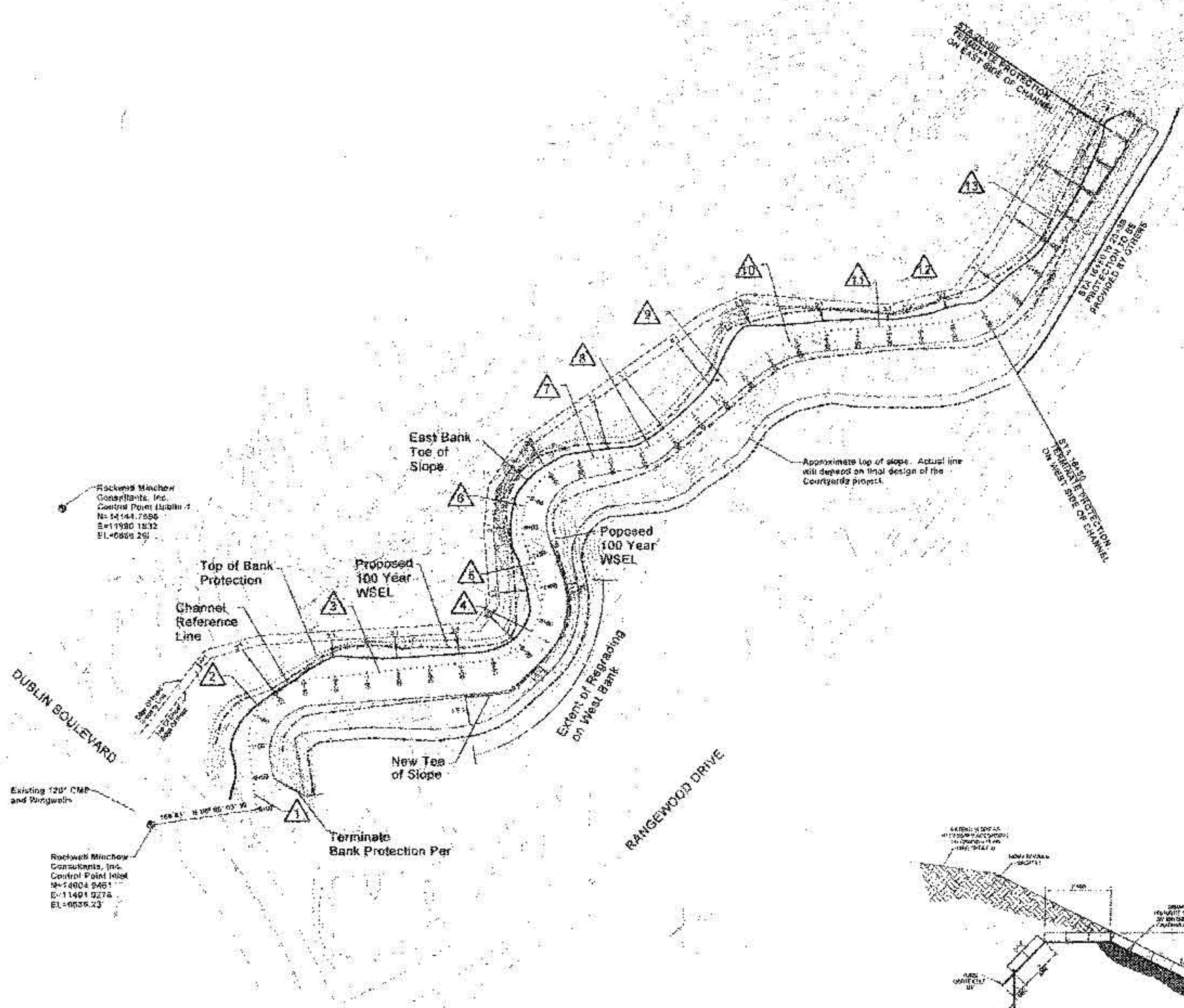
- 1 52.25' @ N82°22'30"E
- 2 Arc. R=105.00' Δ= 01°48'54" L=150.25' C=143.65'
- 3 266.00' S 5 48' 31" E
- 4 Arc. R=100.00' Δ= 106°02'30" L=156.13' C=150.43'
- 5 40.21' @ N67°30'58"E
- 6 Arc. R=100.00' Δ= 101°45'24" L=177.33' C=153.12'
- 7 49.56' @ S10°42'28"E
- 8 Arc. R=100.00' Δ= 28°17'46" L=48.33' C=48.89'
- 9 176.83' S 38°00'24"E
- 10 Arc. R=250.00' Δ= 35°27'48" L=154.37' C=151.83'
- 11 159.74' @ S5°37'35"E
- 12 Arc. R=150.00' Δ= 51°35'48" L=137.75' C=132.91'
- 13 318.84' S 50°13'24"E



Channel Reference Line Station (ft)	Offset From Channel Reference Line (ft)	Marking (ft)	Existing (ft)	Elevation (ft)
1+00.00	-27.75	13878.50	11912.30	6802.00
2+00.00	2.44	13895.44	11898.62	6828.01
3+00.00	-30.85	13795.87	11755.15	6828.12
4+00.00	-18.87	13548.29	11753.41	6838.86
5+00.00	-44.17	13516.29	11756.67	6828.14
6+00.00	49.90	13509.84	11695.72	6828.33
7+00.00	-19.75	13429.14	11723.46	6820.60
8+00.00	40.85	13323.85	11741.56	6830.42
9+00.00	-22.32	13410.13	11800.29	6832.14
10+00.00	37.97	13200.04	11826.79	6832.82
11+00.00	-18.58	13438.40	11857.35	6834.00
12+00.00	12.31	13291.88	12054.10	6831.00
13+00.00	-10.08	13281.29	12080.84	6835.16
14+00.00	-10.94	13294.91	12112.40	6830.62
15+00.00	-17.35	13120.54	12181.31	6835.24
16+00.00	-51.72	13067.82	12273.77	6840.00
17+00.00	-18.90	12936.95	12292.49	6842.97
18+00.00	-18.58	12838.07	12281.29	6845.07
19+00.00	23.81	12742.07	12300.61	6845.00
20+00.00	35.14	12674.81	12364.62	6846.11
21+00.00	-14.26	12663.32	12338.00	6847.85
22+00.00	-10.91	12581.87	12402.03	6847.54
23+00.00	7.63	12533.81	12467.86	6846.47
24+00.00	-15.76	12497.32	12525.85	6850.82

**LEGEND**

- Existing Contour
- Property or Easement Line
- Proposed 100-year WSEL
- Toe of Slope
- Top of Bank Protection



**NOTES**

- Disturbance to wetlands in channel bottom shall be minimized. Wetland soils excavated for placement of toe-down protection shall be placed back in excavated trench after construction.

Engineers/Scientists/Surveyors  
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**PLAN VIEW AND BANK PROTECTION LAYOUT**

**BANK PROTECTION FOR COTTONWOOD CREEK TRIBUTARY 1B BETWEEN DAKOTA NORTH PUD AND THE COURTYARDS PUD**

Drawn by:	JHB
Checked by:	JHB
Designed by:	JHB
Reviewed by:	JHB

Drawn by:	JHB
Checked by:	JHB
Designed by:	JHB
Reviewed by:	JHB

Sheet **2** of **3**