

Plan Reading – Exercise Answers

EXERCISE #1

1. $21,100 - 21,000 = 100$ feet
2. $21,030 - 21,000 = 30$ feet
3. $21,100 - 21,030 = 70$ feet
4. $21,100 + 50 = 21,150 = \text{Sta. } 211+50$
5. $21,200 - 50 = 21,150 = \text{Sta. } 211+50$
6. $21,250 - 21,150 = 100$ feet

EXERCISE #2

1. $1,500 - 1,410 = 90$ feet
2. $8,520 - 8,010 = 510$ feet
3. $5,124.8 - 4,876.2 = 248.6$ feet

EXERCISE #3

If you are walking along the C of a project, reading the station numbers on the stakes, and these numbers are increasing as you go, there is a good chance you are walking toward the **EAST** or **NORTH**.

EXERCISE #4

1. Sta. 14+00, 40 ft. left of
2. Sta. 15+25 on
3. East; North
4. $1,588.6 - 1,500.0 = 88.6$ feet
5. back of
6. $1,600 - 1,350 = 250$ feet

EXERCISE #5

1. BRO-7076 (18)
2. 7+00.00
3. 29+00.00
4. (a.) 2,200.00 feet (b.) 0.417 miles
5. Crushed rock
6. 2", 25'
7. 2,012.8 feet
8. 1-Grading, 4-Culverts, 6-Bridges, 7-Guardrail, 10-General
9. Sta. 16+25.00
10. Sec. 35 & Sec. 36

EXERCISE #6

- a.) Spike in power pole
b.) BM #3
c.) 1458.27'
d.) 81' Left
- a.) Twin Span Girder & Floorbeam
b.) 120' – 0"
c.) 20' – 0"
d.) Remove
- 8.7'
- D.A. = 4 acres
- Earth dike, elevation 1460.0'

EXERCISE #7

- 47BD
- 4,000 PSI
- ASTM A615, Grade 60
- 1,260 Tons
- 2,780 Lbs.
- 16+25.00
- 185' – 2"
- 28' – 0"
- 3 Spans
- 1' – 2"
- Turkey Creek
- 303.8 Square Miles
- 100 Years
- 42 Piles
- 20 & 45 Tons/Pile

EXERCISE #9

- Title Sheet
- Summary of Quantities Sheet
- Plan View
- Profile View
- 150 feet
- Plan/Profile Sheet
- Sheet 2-N2, General Information
- South or West
- 36 square miles
- Sheet R1, ROW Data

EXERCISE #8

- Refer to Parcel (Tract) #1
 - Stewart Revocable Trust, JL & JM
 - Part of SE ¼ Sec. 35, T8N, R1E
 - 1.94 acres
 - 0.00 acres
 - 0.30 acres
- 3.78 acres
- Permanent Easements – 0.00 acres,
Temporary Easements – 0.64 acres
- a.** Construction staging area
b. Stewart Revocable Trust, JL & JM
c. 0.23 acres