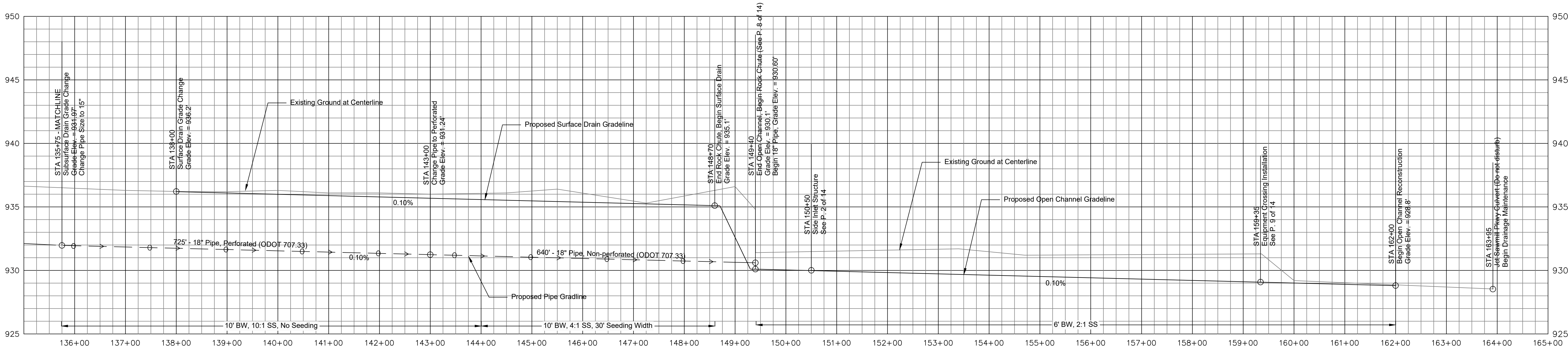
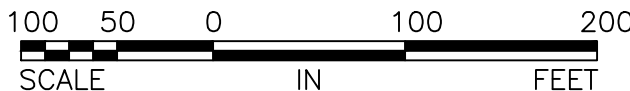
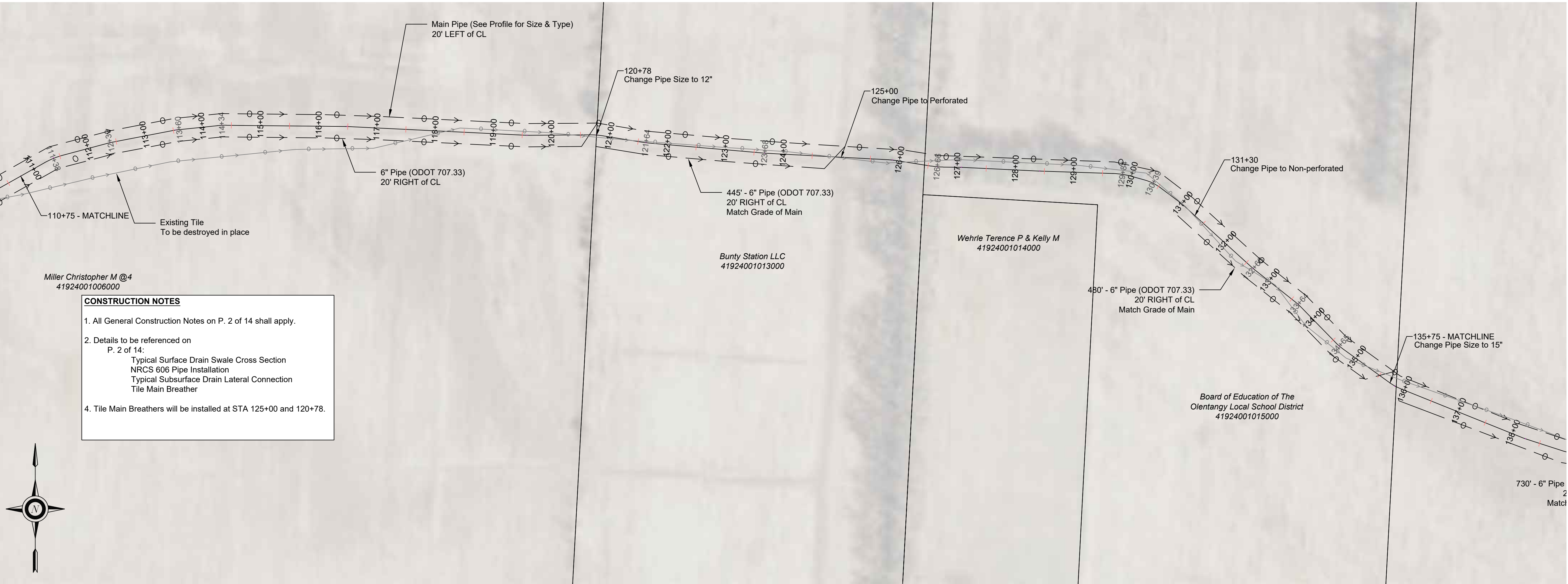


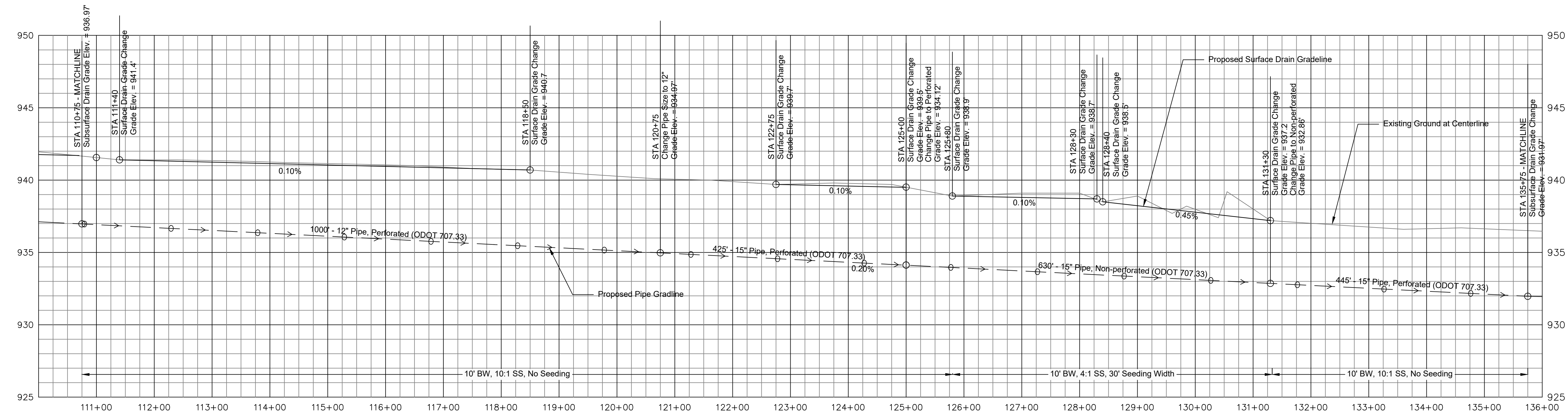
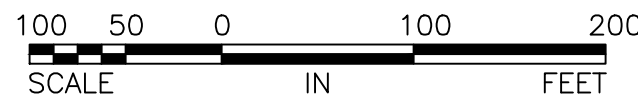
STA 163+95 - 135+75 - Plan & Profile

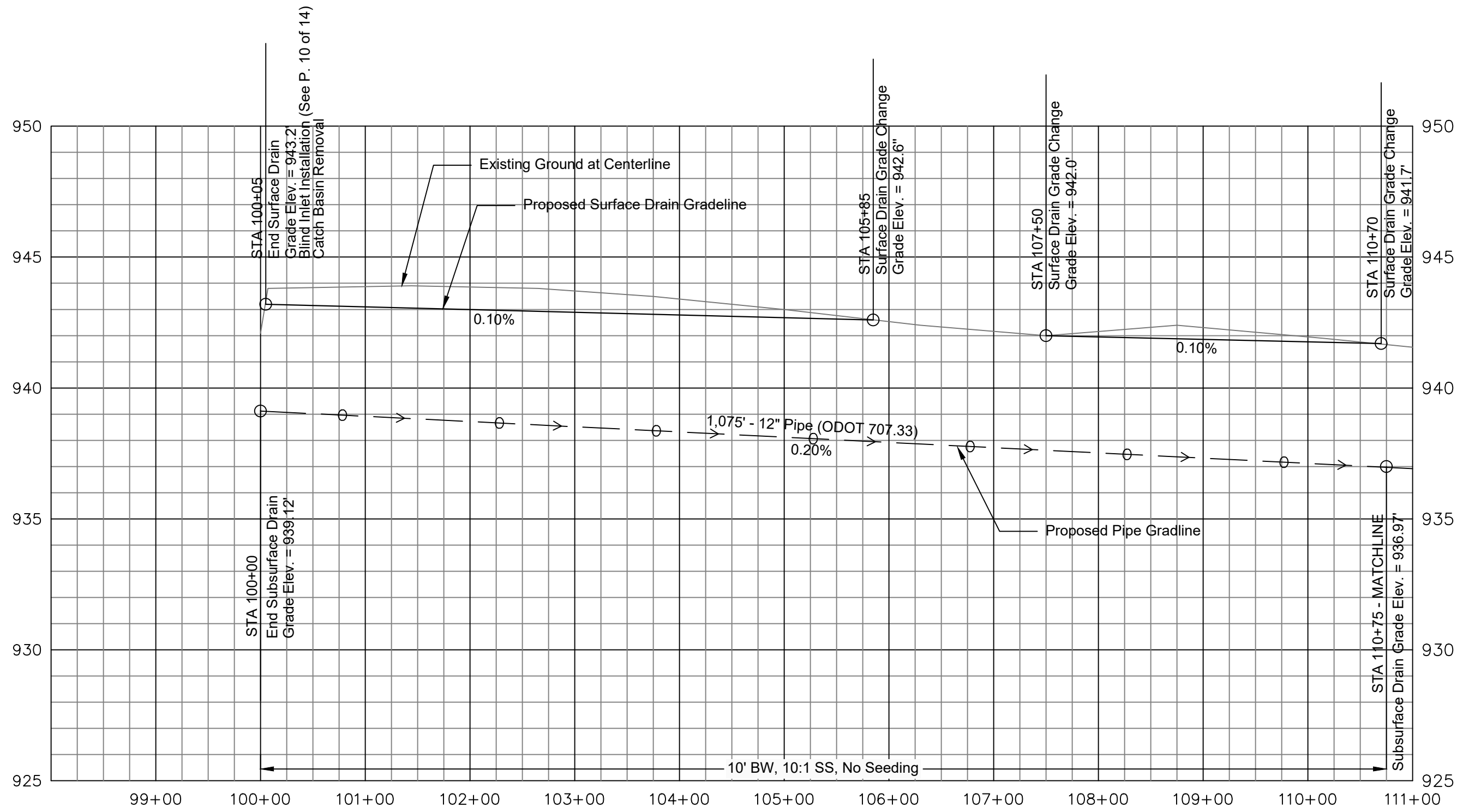
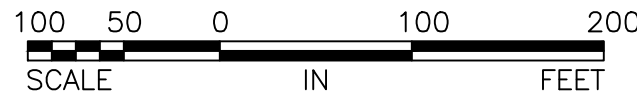
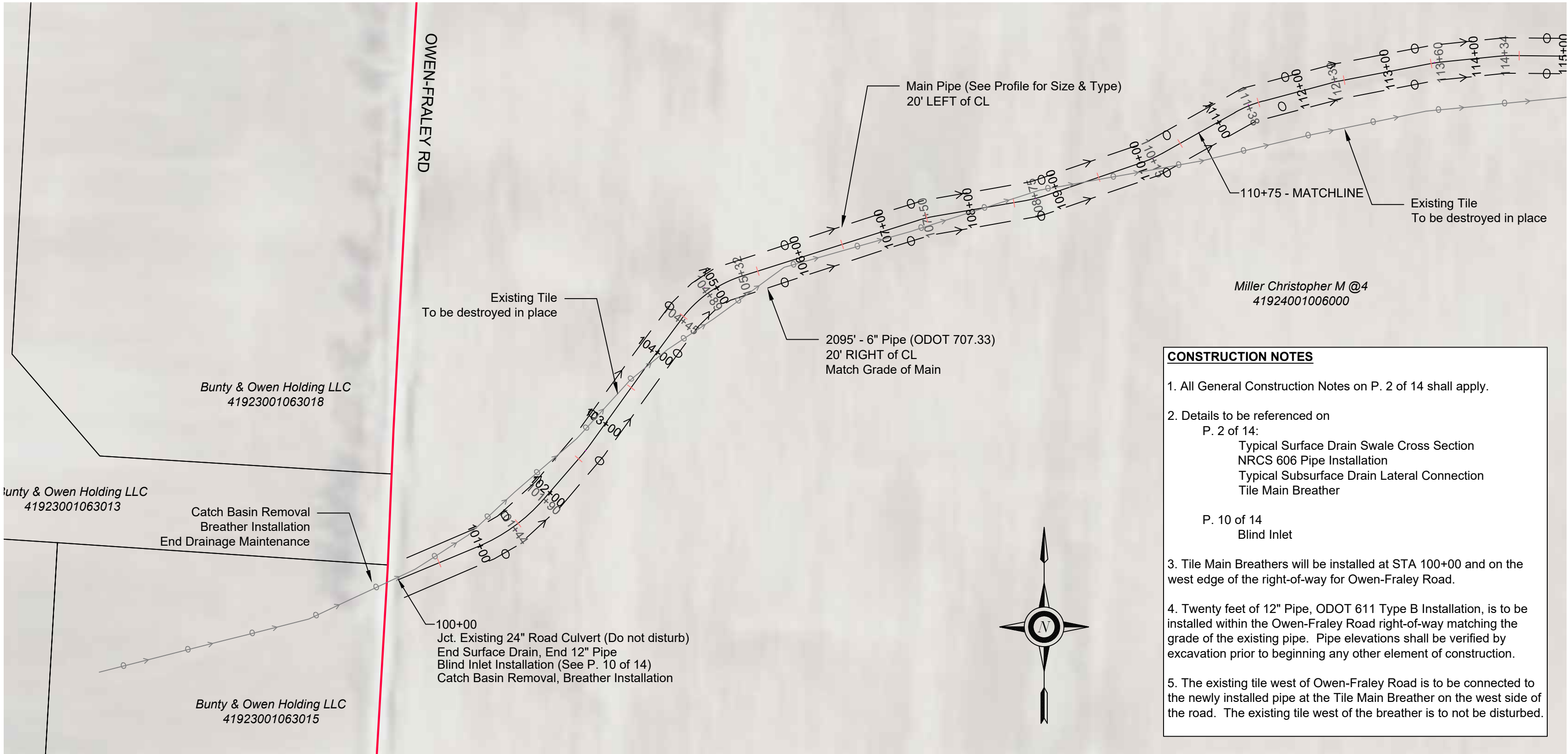


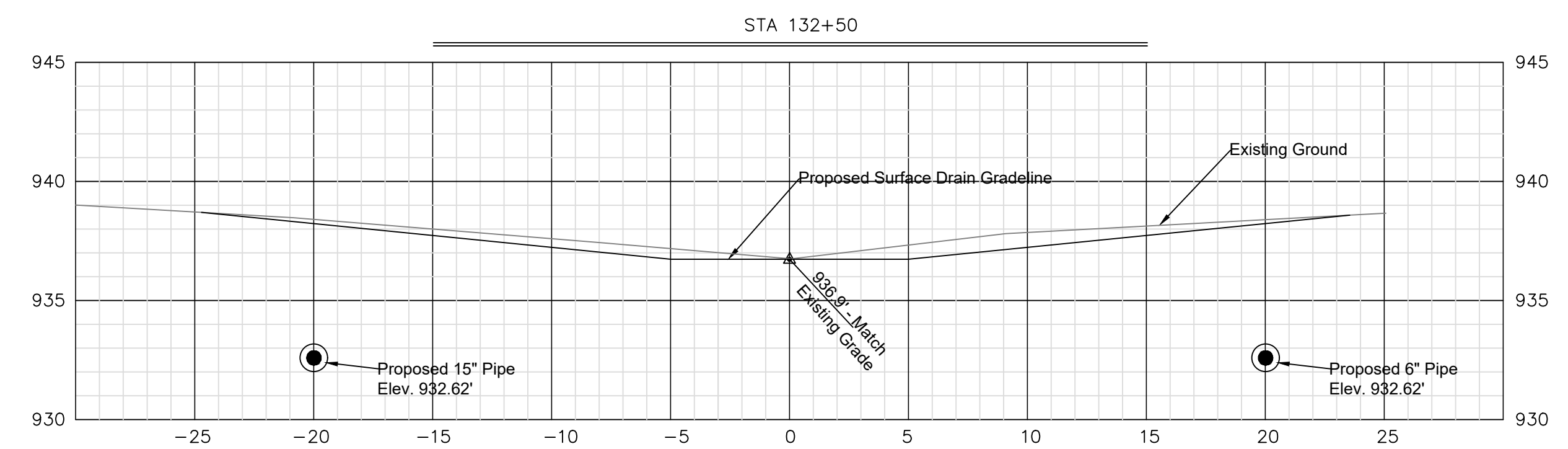
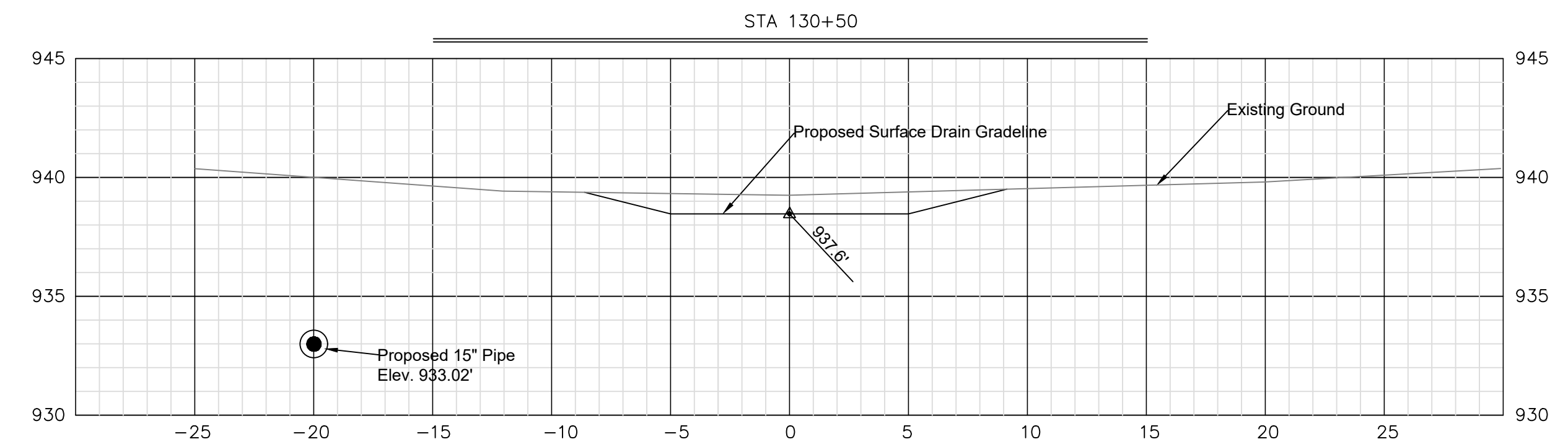
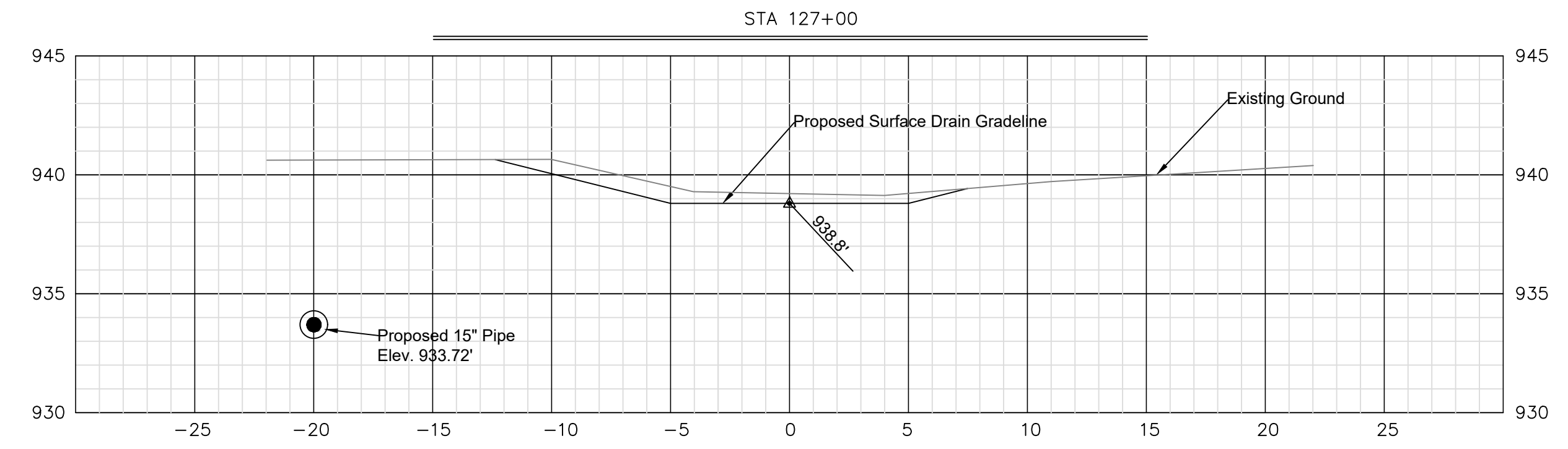
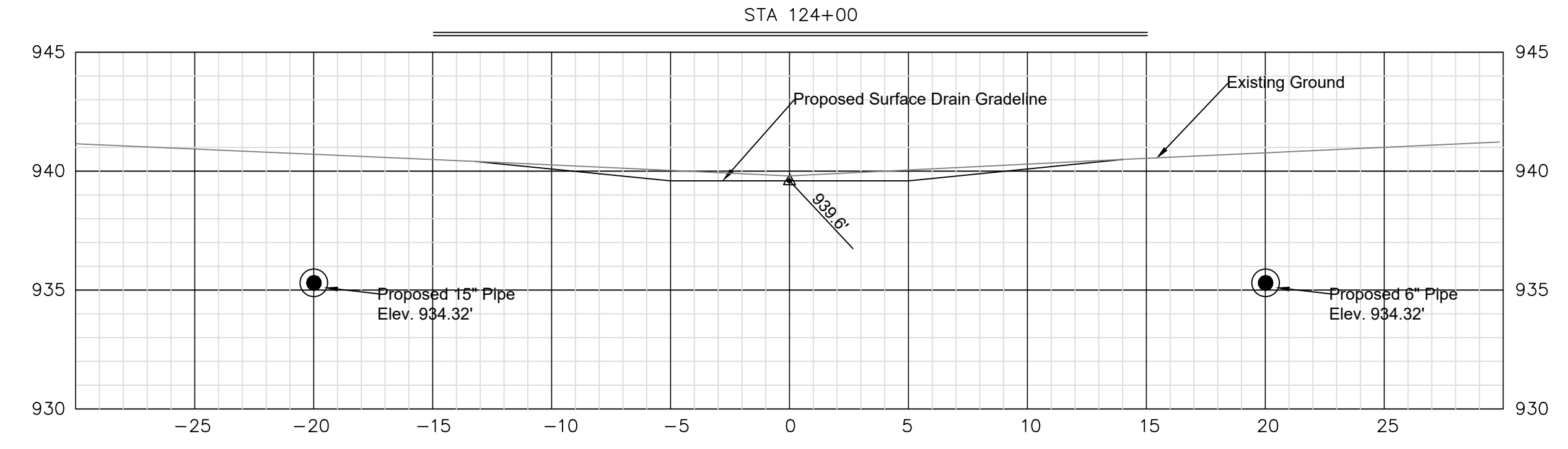
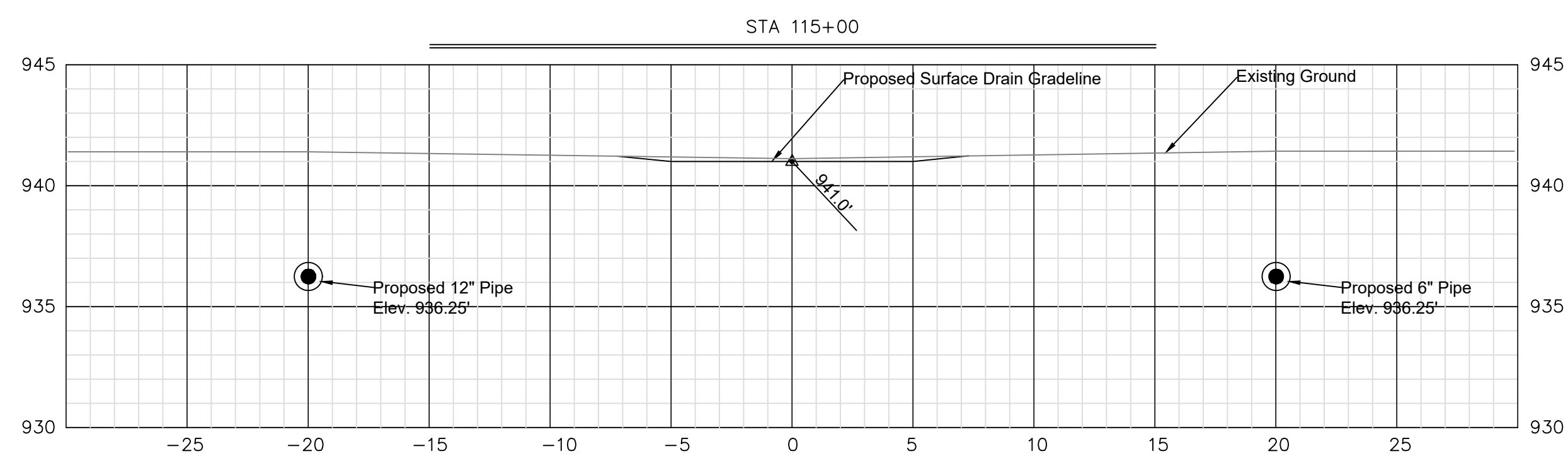
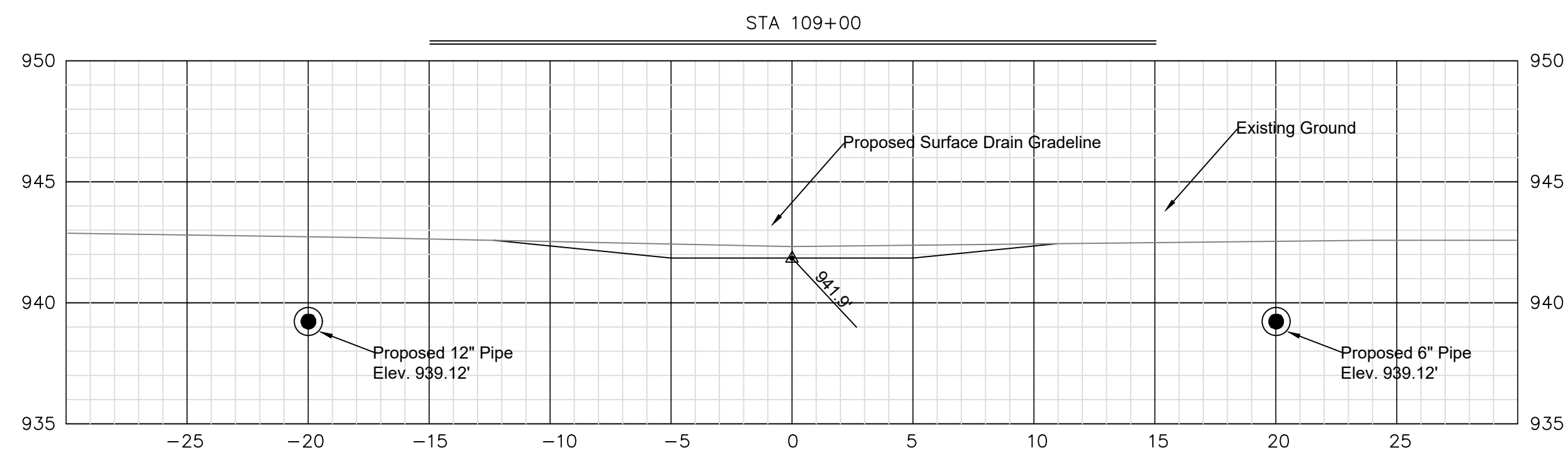
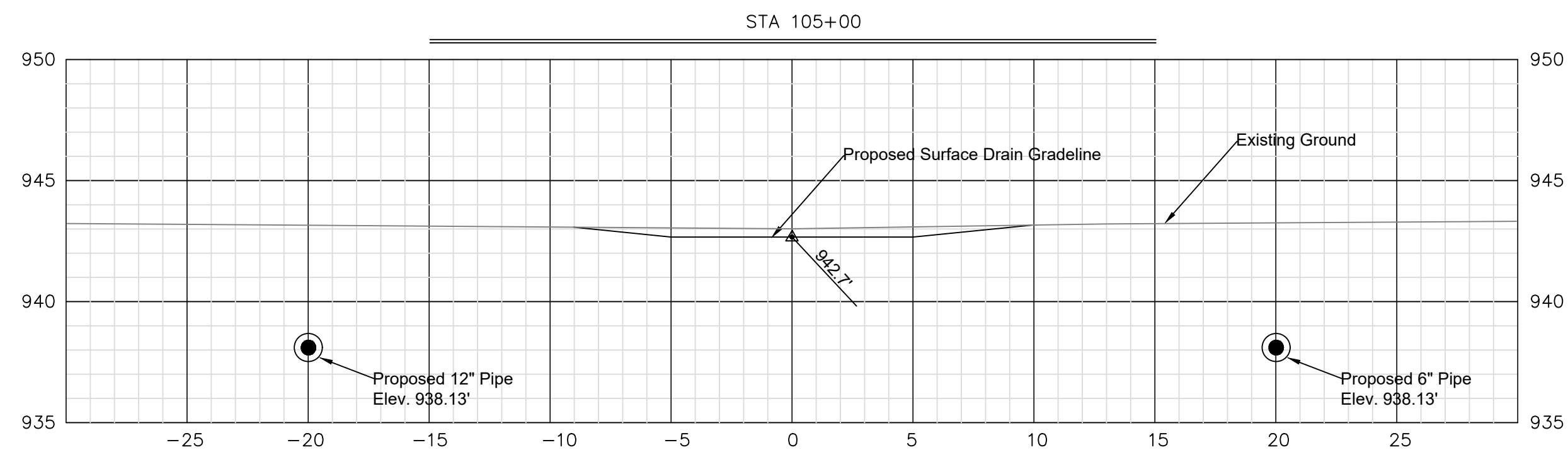
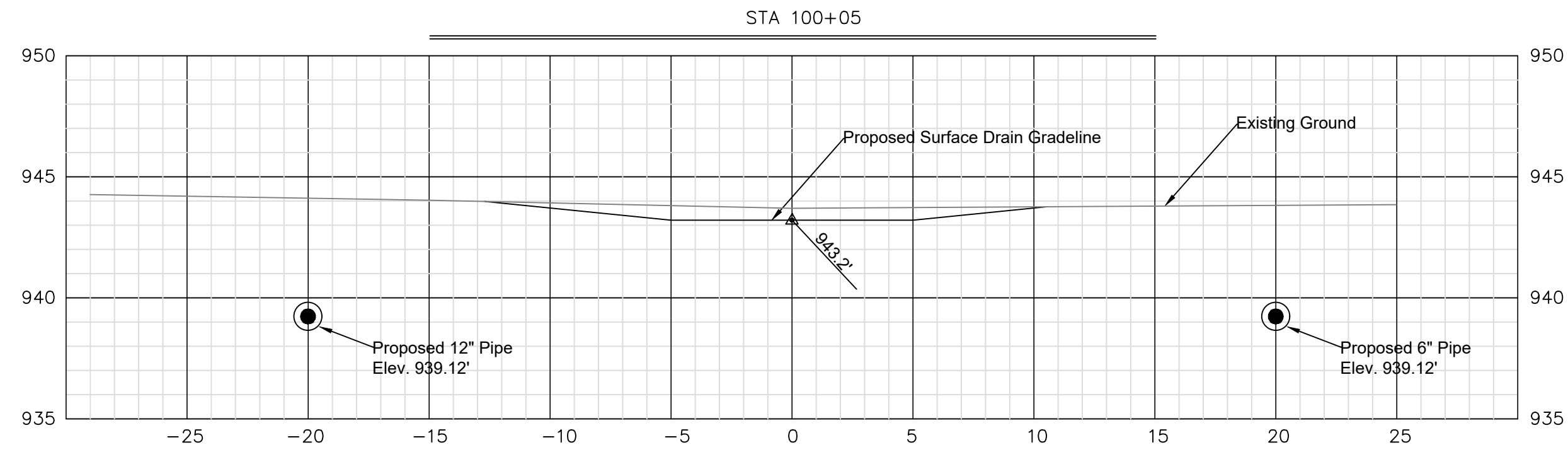
STA 135+75 - 110+75 - Plan & Profile

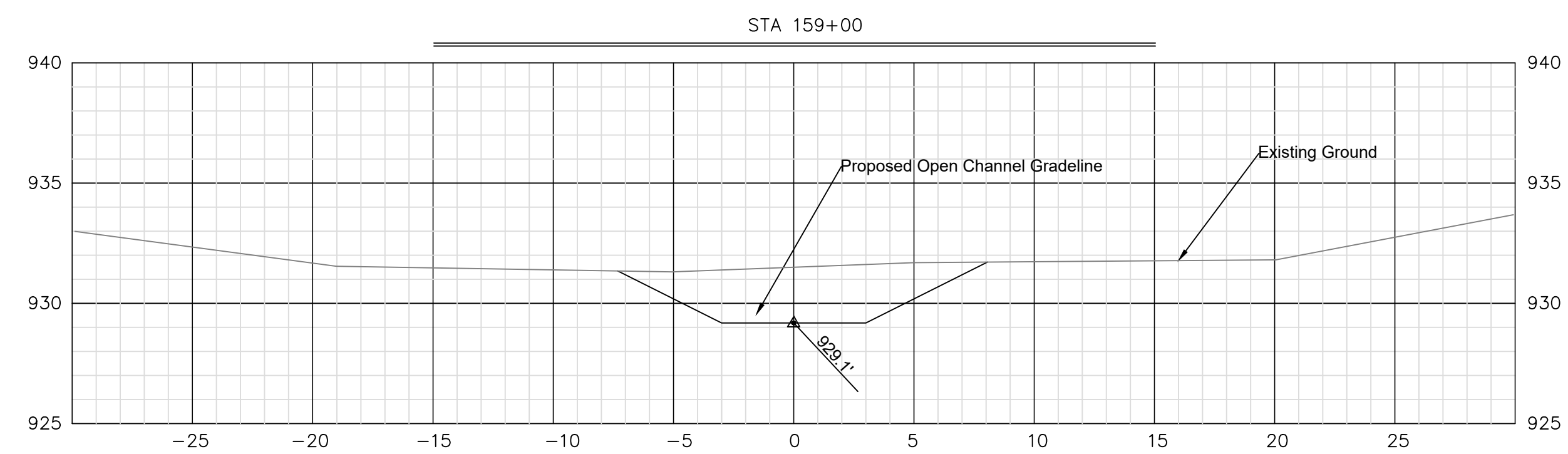
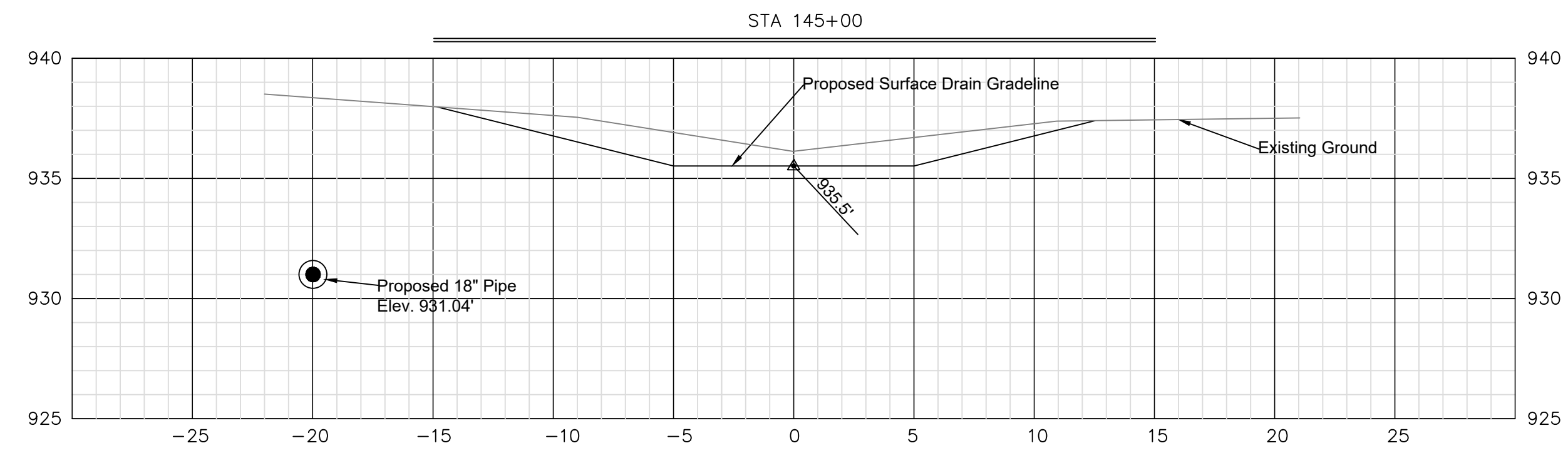
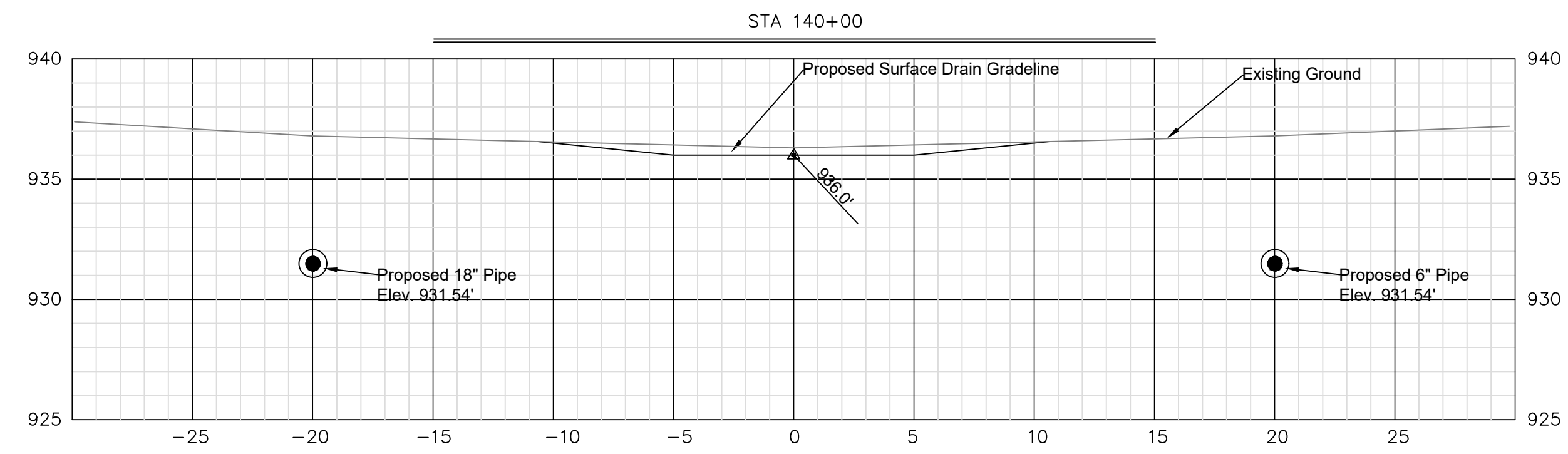


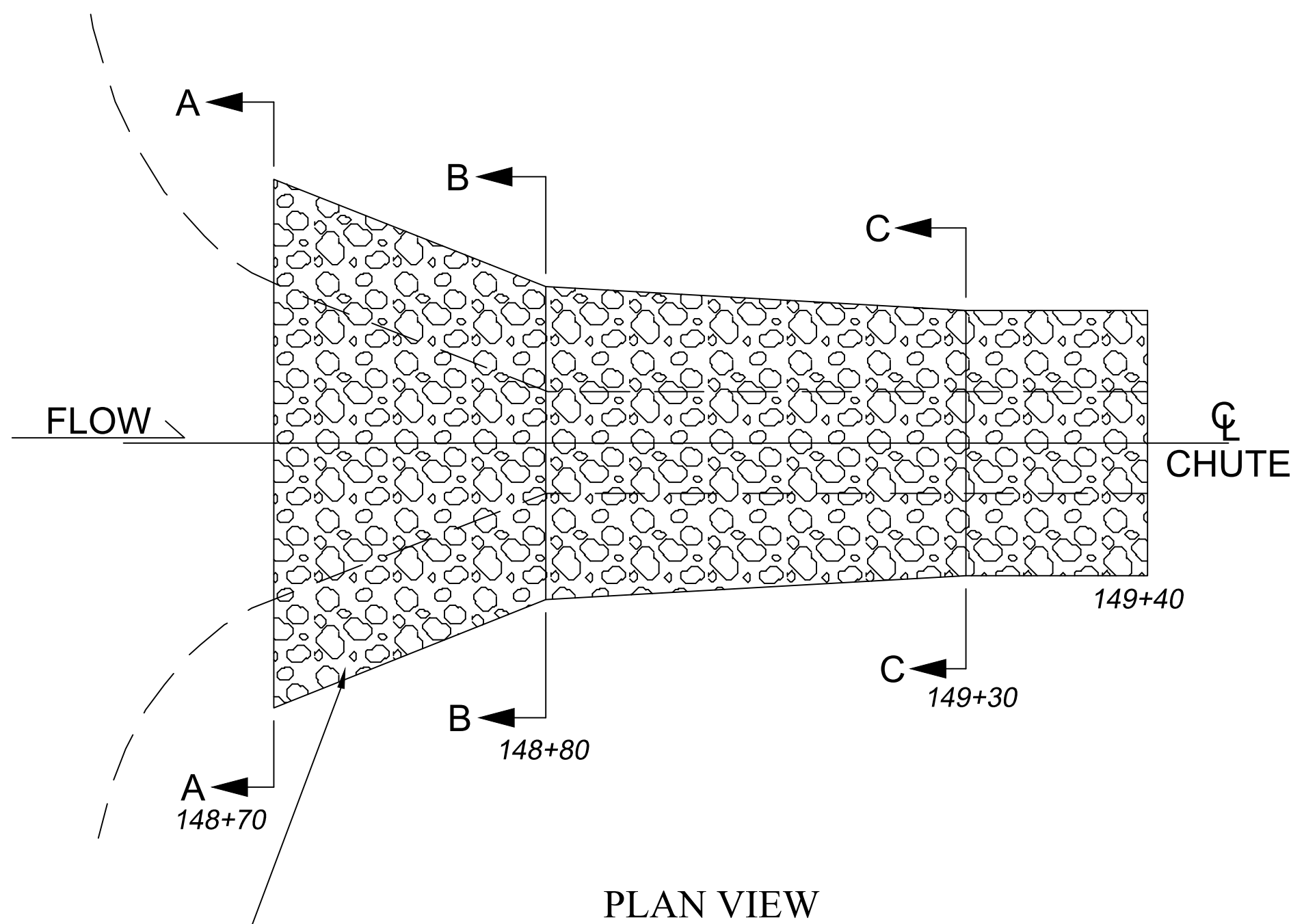
- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 14 shall apply.
 - Details to be referenced on P. 2 of 14:
 - Typical Surface Drain Swale Cross Section
 - NRCS 606 Pipe Installation
 - Typical Subsurface Drain Lateral Connection
 - Tile Main Breather
 - Tile Main Breathers will be installed at STA 125+00 and 120+78.



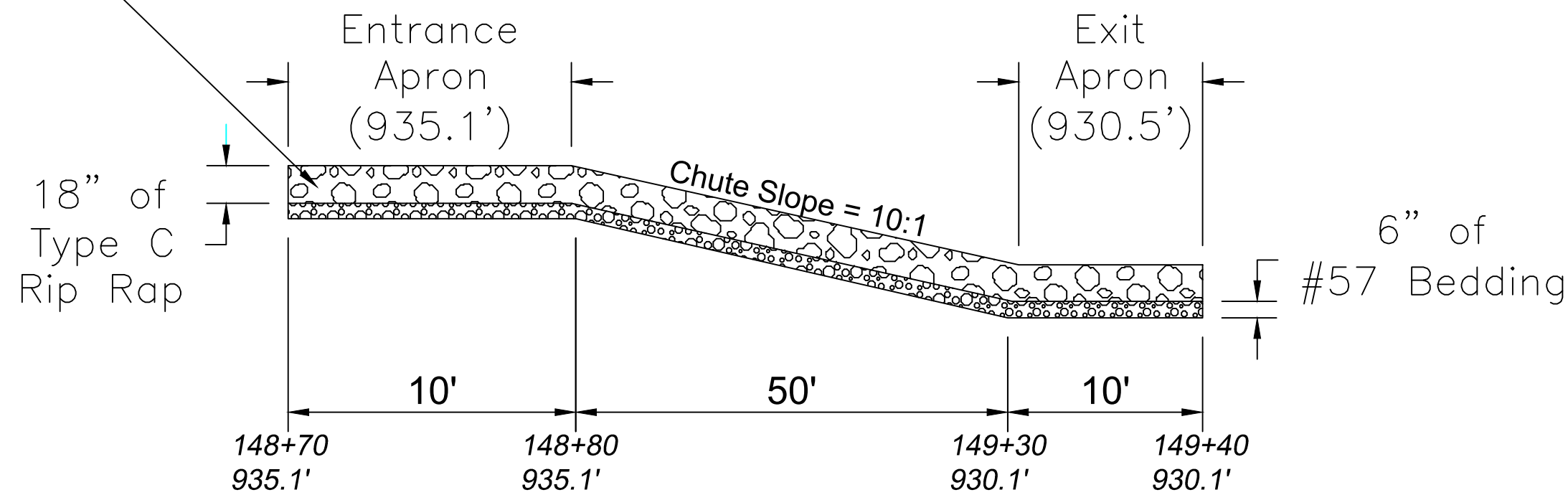




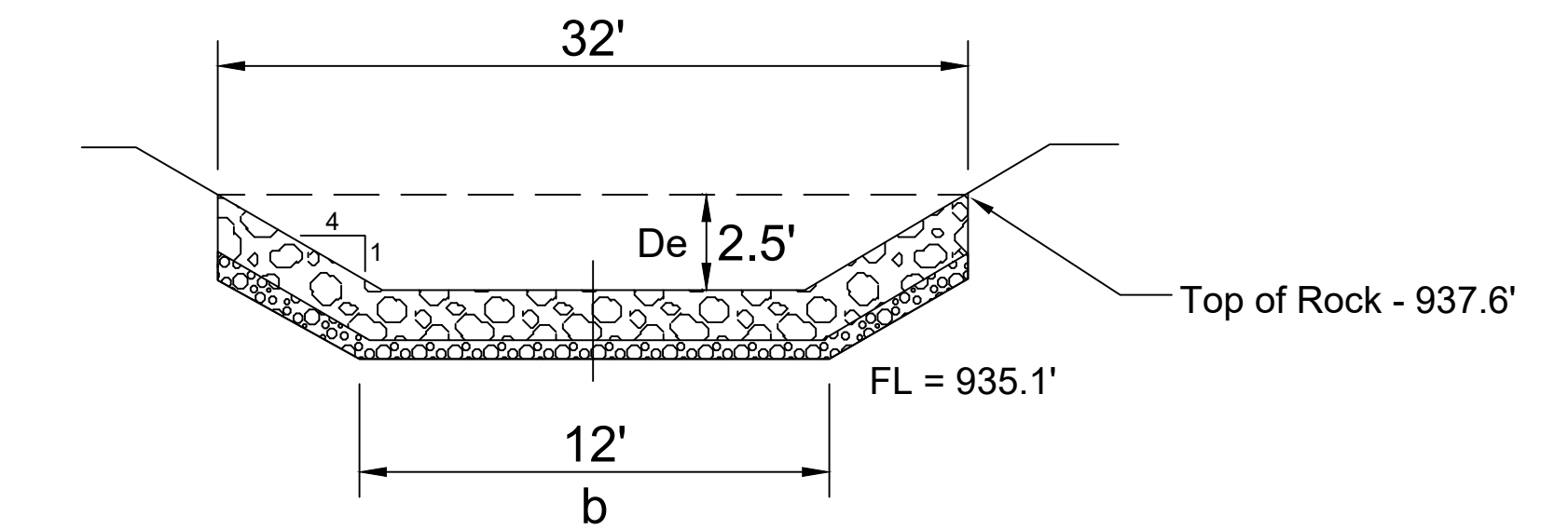




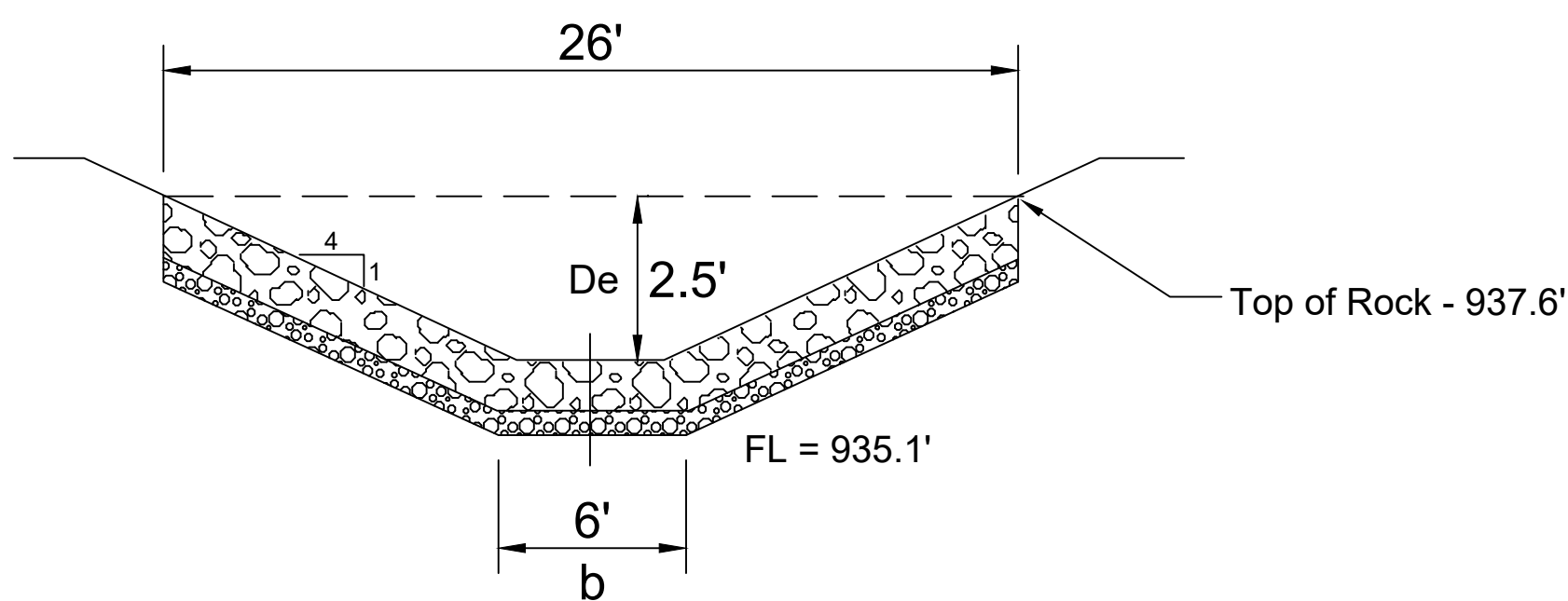
Type C shall consist of sizes such that at least 85 percent of the total material by weight shall be larger than an 6 inch (150 mm) but less than a 18 inch (0.5 m) square opening. At least 50 percent of the total material by weight shall be larger than a 12 inch (0.3 m) square opening. The material smaller than a 6 inch (150 mm) square opening shall consist predominantly of rock spalls and rock fines and shall be free of soil.



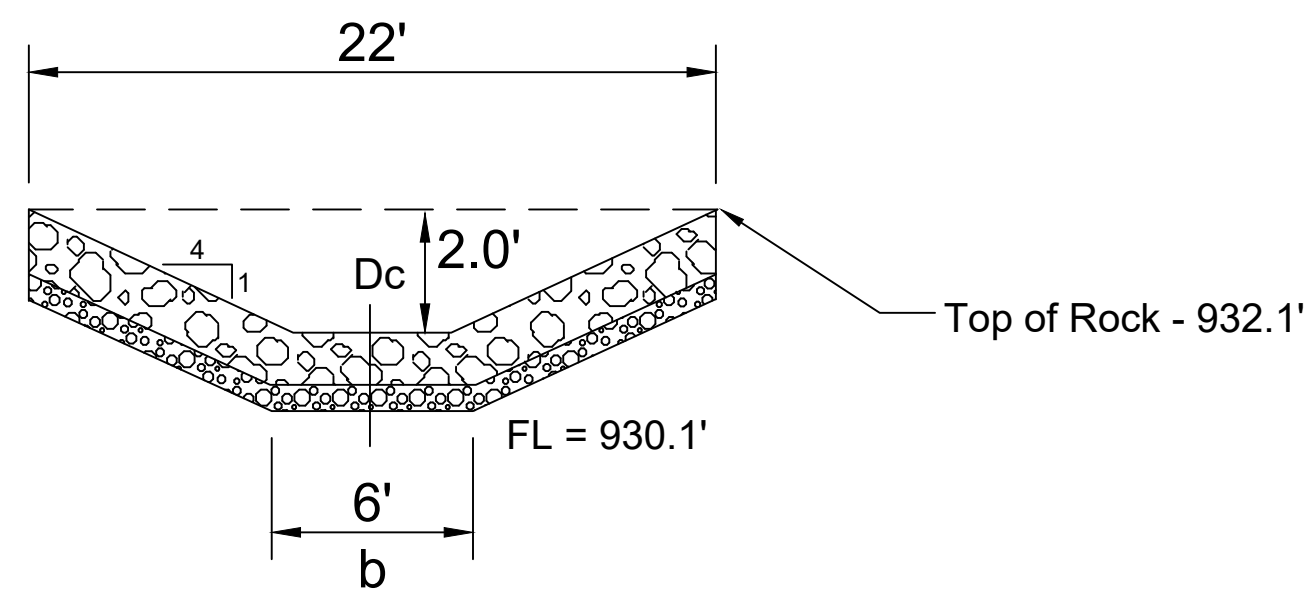
PROFILE ALONG CL OF ROCK CHUTE



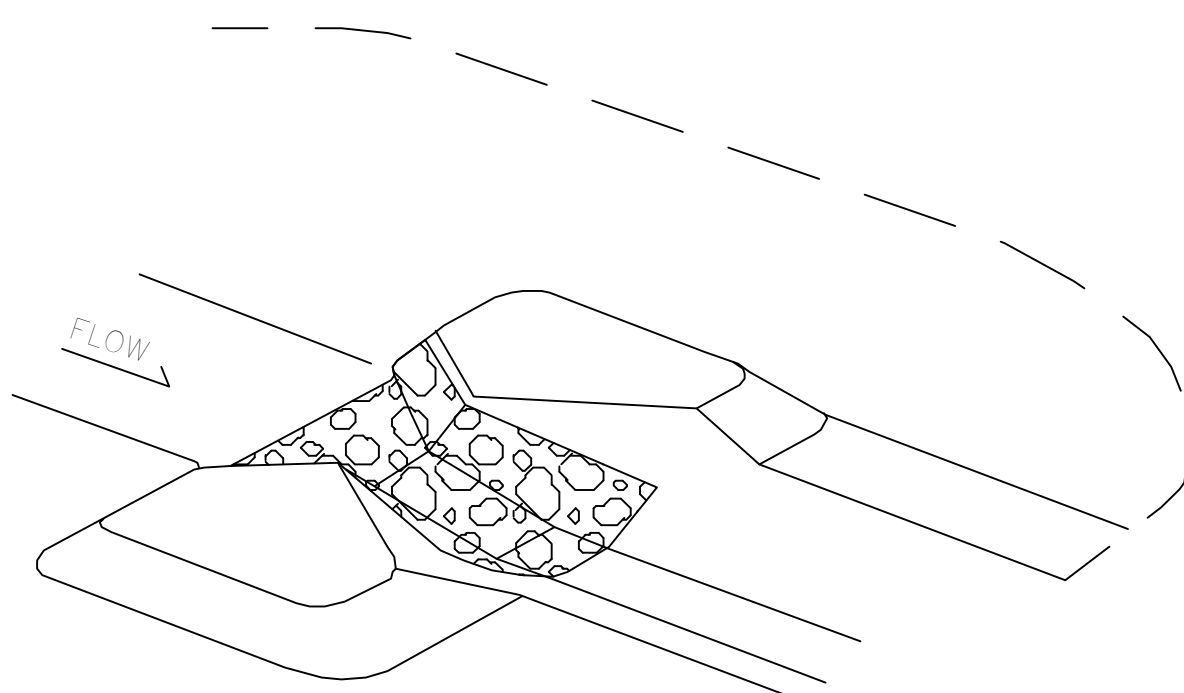
SECTION A-A



SECTION B-B



SECTION C-C



ISOMETRIC VIEW

MATERIAL GRADATIONS	
RIPRAP	
WEIGHT OF INDIVIDUAL PIECES (LBS)	PERCENT OF NUMBER OF PIECES
150-200	4
100-150	6
50-100	20
10-50	30
0-10	40
GRAVEL BEDDING(EQUIVALENT TO NO.57)	
SIZE-(INCHES)	PERCENT PASSING
1 1/2	100
1	95-100
1/2	25-60
NO. 4	0-10
NO. 8	0-5

NOTES:

- ALL FILL SHALL BE COMPACTED IN 12" LAYERS WITH TWO PASSES OF WHEELED HEAVY EQUIPMENT OVER ALL THE SURFACE OF THE LAYER.
- BEDDING AND RIPRAP SHALL BE DENSE, DURABLE, ANGULAR ROCK. BEDDING SHALL BE PLACED AND INSPECTED BEFORE PLACING RIPRAP. RIPRAP SHALL BE PLACED TO A UNIFORM DEPTH.

EQUIVALENT ROCK SIZES (165 pcf)		
WEIGHT (LBS)	TYPICAL DIMENSIONS (INCHES)	COMMON SIZE (INCHES)
200	8 X 15 X 18	15
150	8 X 12 X 16	12
100	7 X 10 X 14	10
50	6 X 8 X 11	8
10	3 X 6 X 6	6

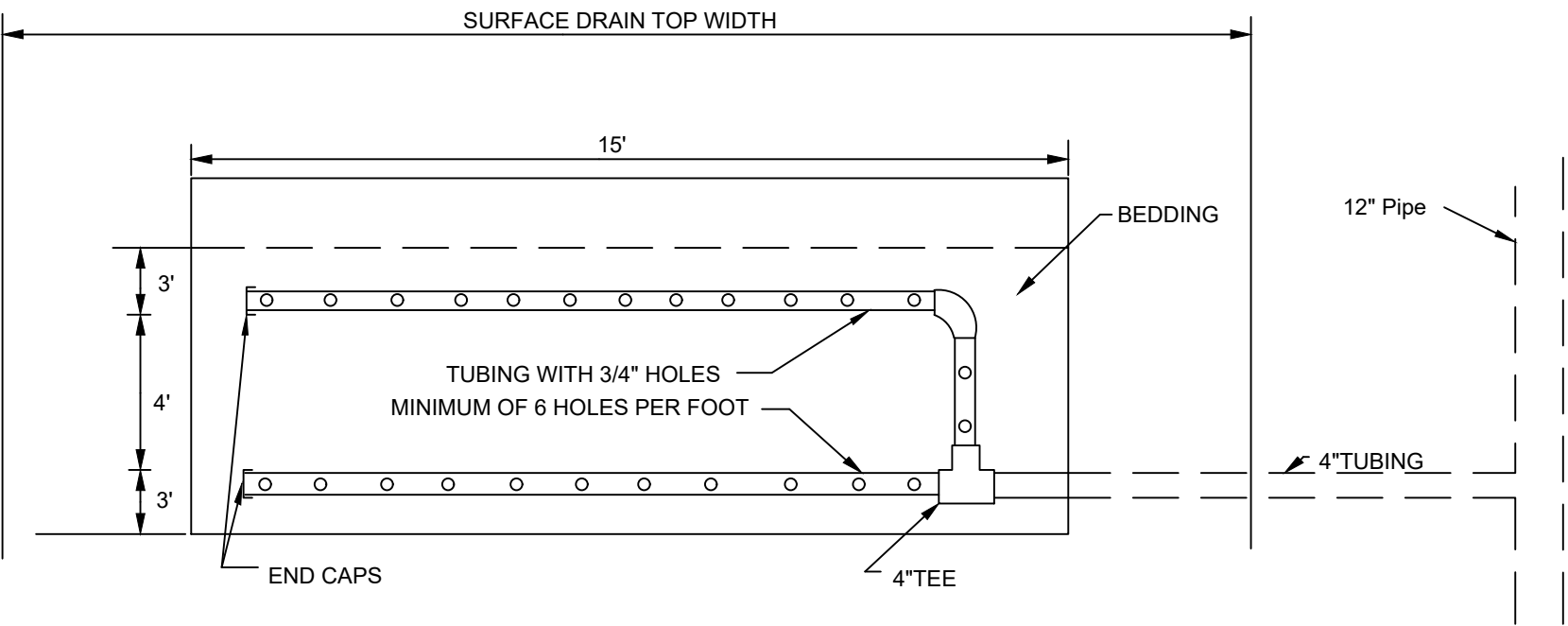
Design Data

Acres Drained	180
Chute Slope	10:1
Bottom Width (b) Varies	6'-12'
Side Slopes	4:1
De	2.5'
Dc	2.0'
V	9.28 FPS
Entrance Elevation	935.1'
Exit Apron Elevation	930.1'
Overfall	5.0'
Entrance Apron Length	10'
Exit Apron Length	10'
Type "C" Stone (Tons)	146.9
#57 Gravel Bedding (Tons)	48.9

BLIND INLET INSTALLATION - STA 55+50 and STA 65+00

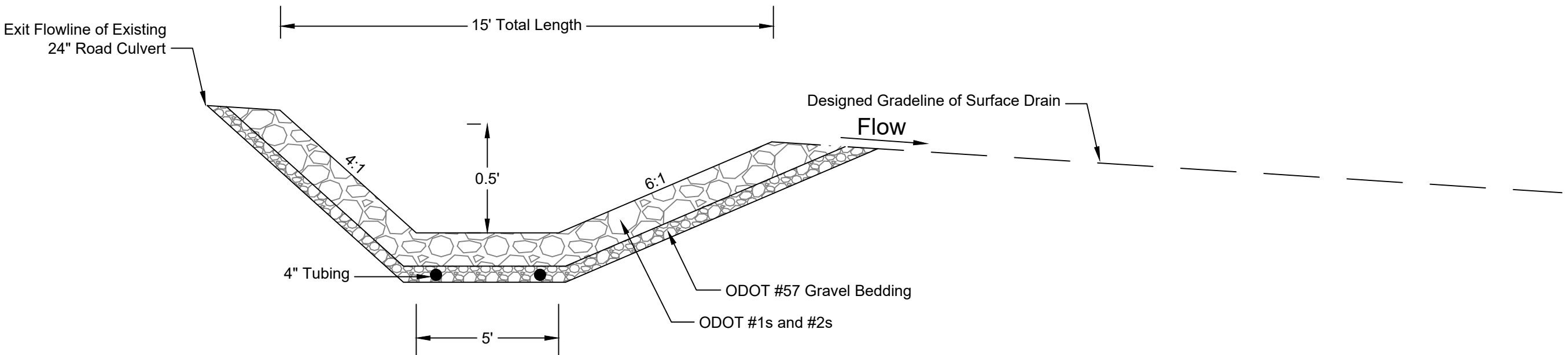
Typical Plan View

(NOT TO SCALE)



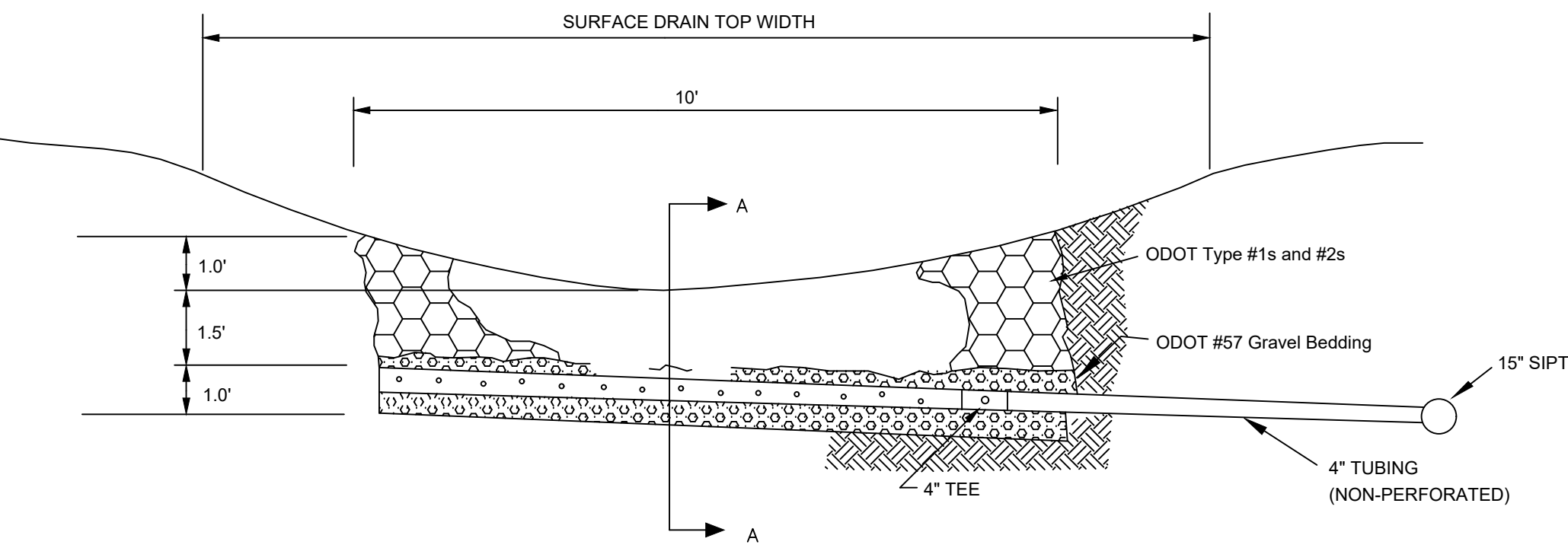
Typical Profile View

(NOT TO SCALE)

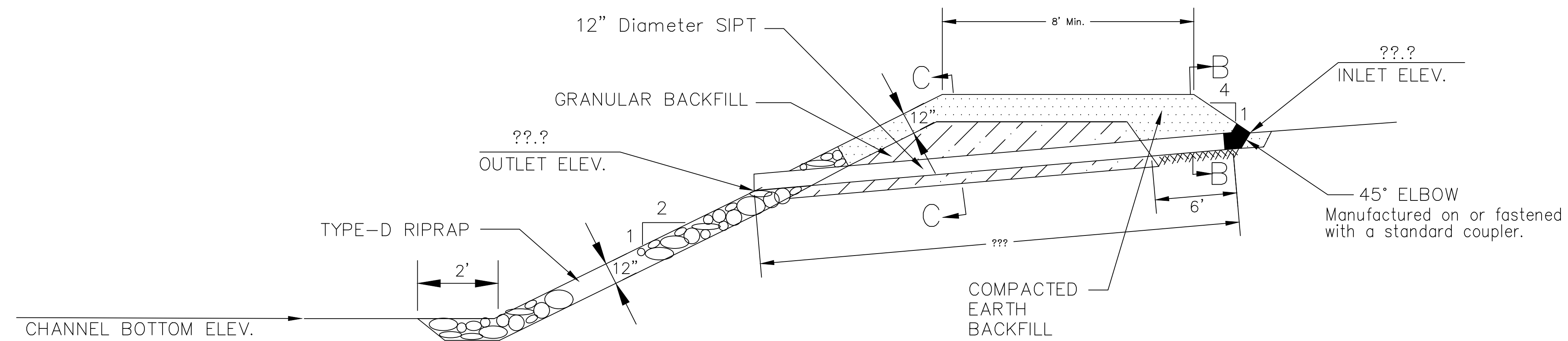


Typical Cross Section

(NOT TO SCALE)



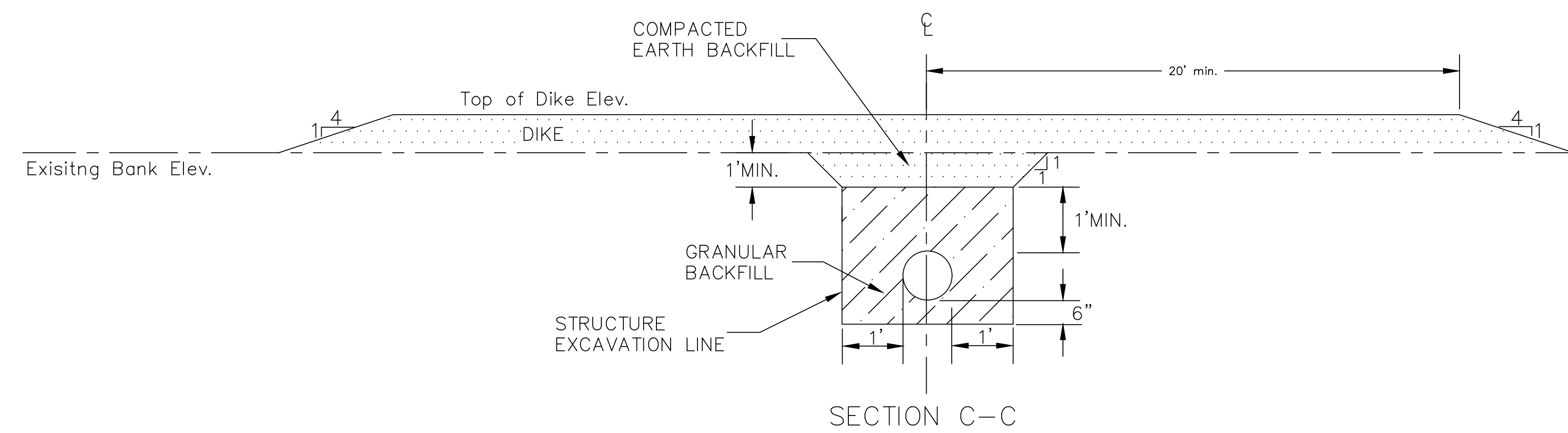
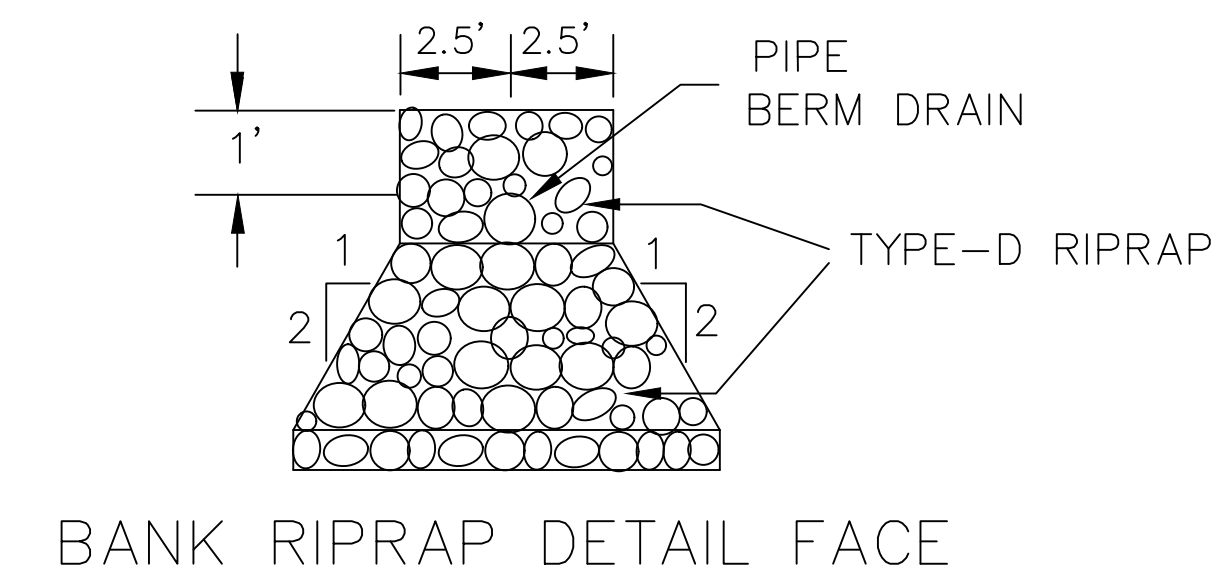
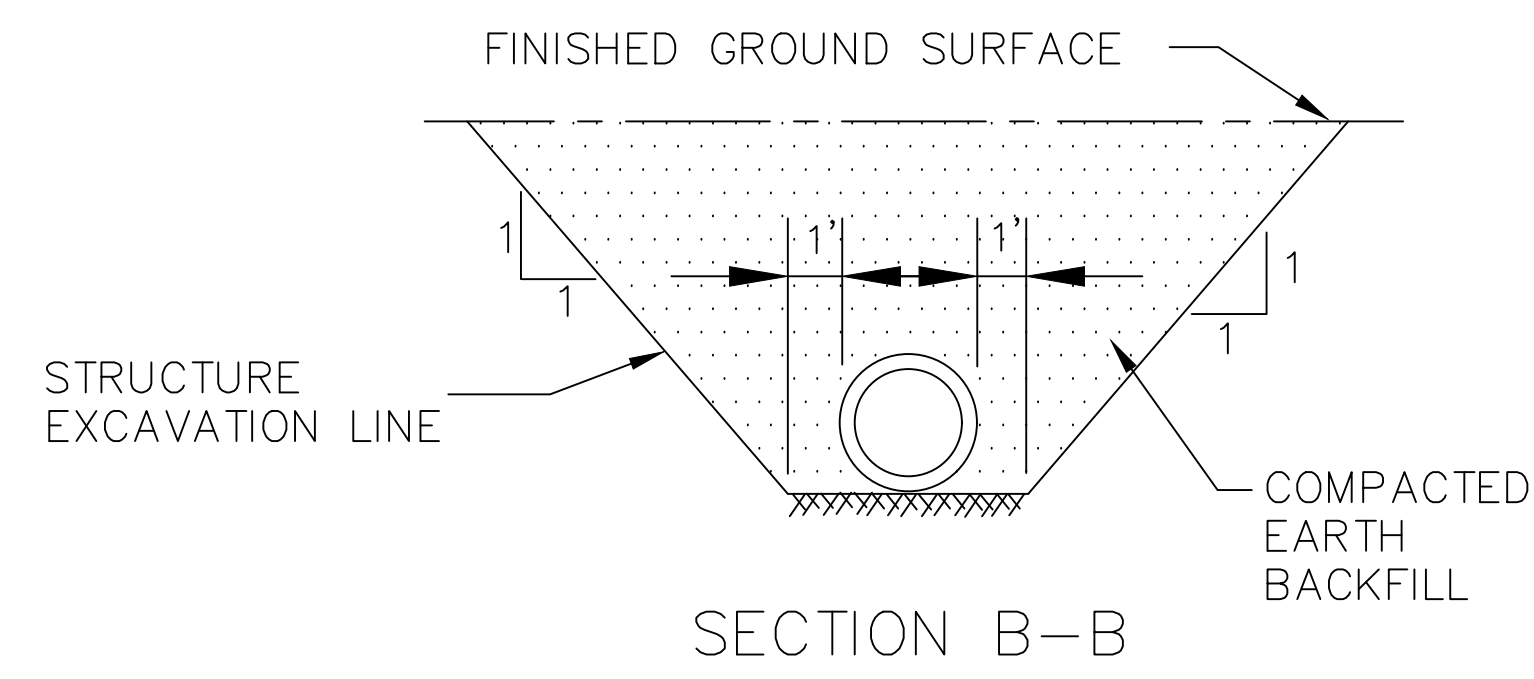
Blind Inlet Estimated Quantities		
Item	Quantity	Unit
ODOT Type #1s and #2s	4	Cubic Yards
ODOT #57 Gravel Bedding	2	Cubic Yards
4" Pipe (ODOT 707.33), Non-perforated	10	Lineal Feet
4" Pipe (ODOT 707.33, 707.41, 707.46 or equivalent) with 3/4" holes per Typical Plan View	24	Lineal Feet
12"x12"x4" Tee	1	Each
4"x4"x4" Tee	1	Each
4" 90-degree elbow	1	Each
4" End Cap	2	Each



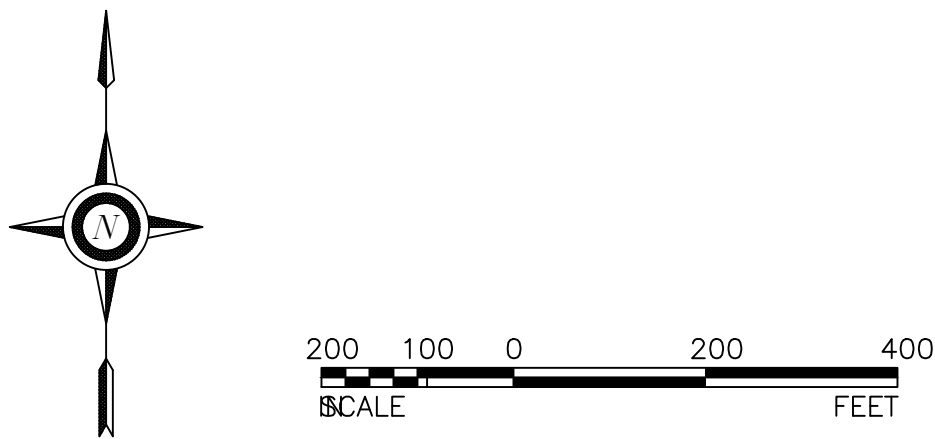
CONSTRUCTION NOTES

1. Pipe Material : PE PIPE is to be corrugated exterior, smooth interior meeting AASHTO M-294.
PVC PIPE is to be SDR-35 or Schedule 40 meeting ASTM D-3034 or ASTM D-1785.
2. GRANULAR BACKFILL is to be ODOT No. #57 or #67 stone.
3. Outlet elevation should not be more than 2.0 feet below the inlet elevation.

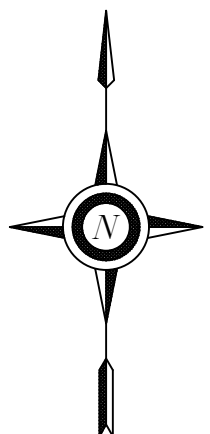
BERM DRAIN STRUCTURE



— NOT TO SCALE —



Easements & Work Limits



200 100 0 200 400
SCALE FEET

Easements & Work Limits

