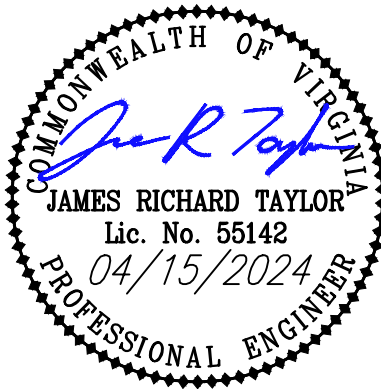




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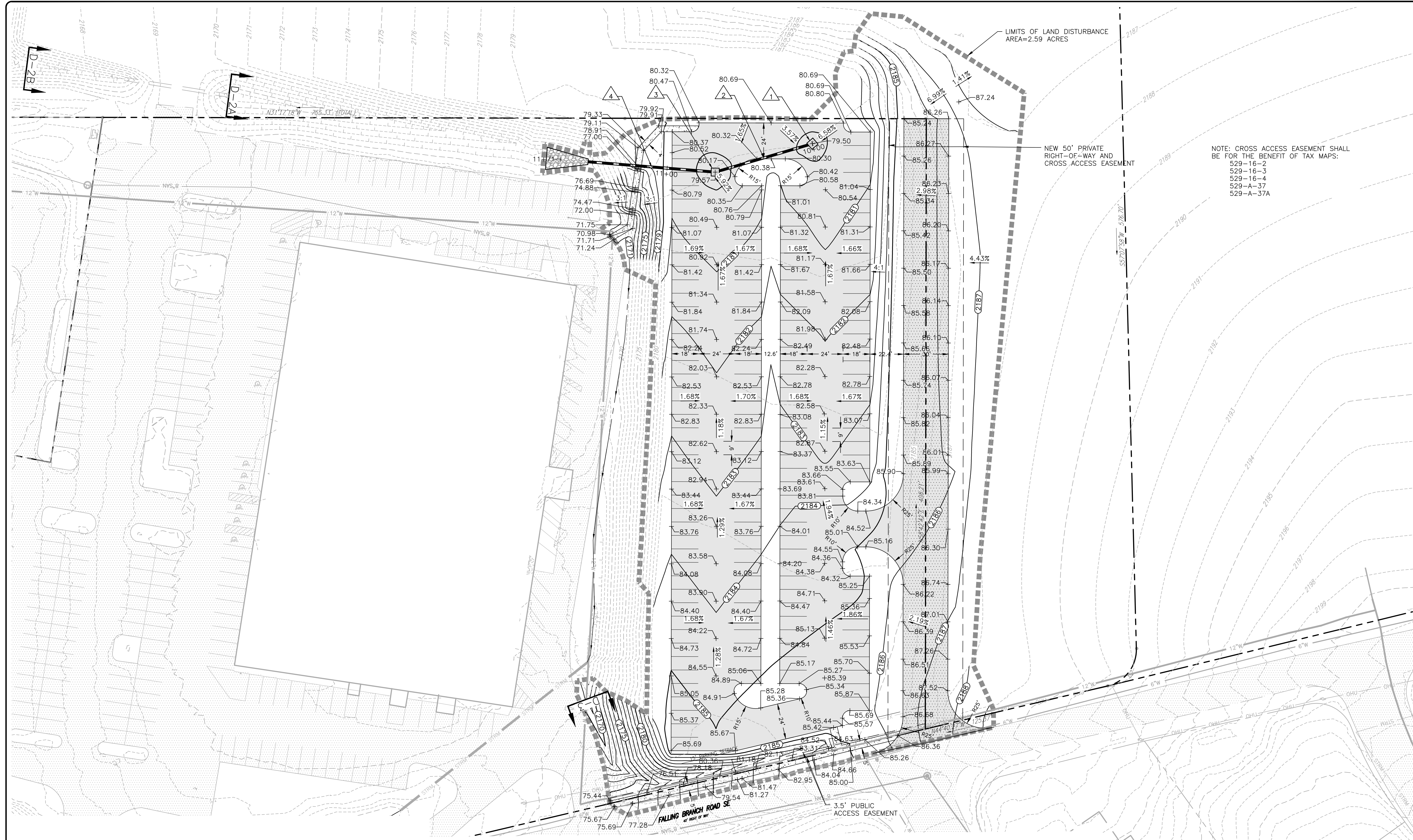
BLUE RIDGE CHURCH PARKING LOT EXPANSION

1655 ROANOKE STREET

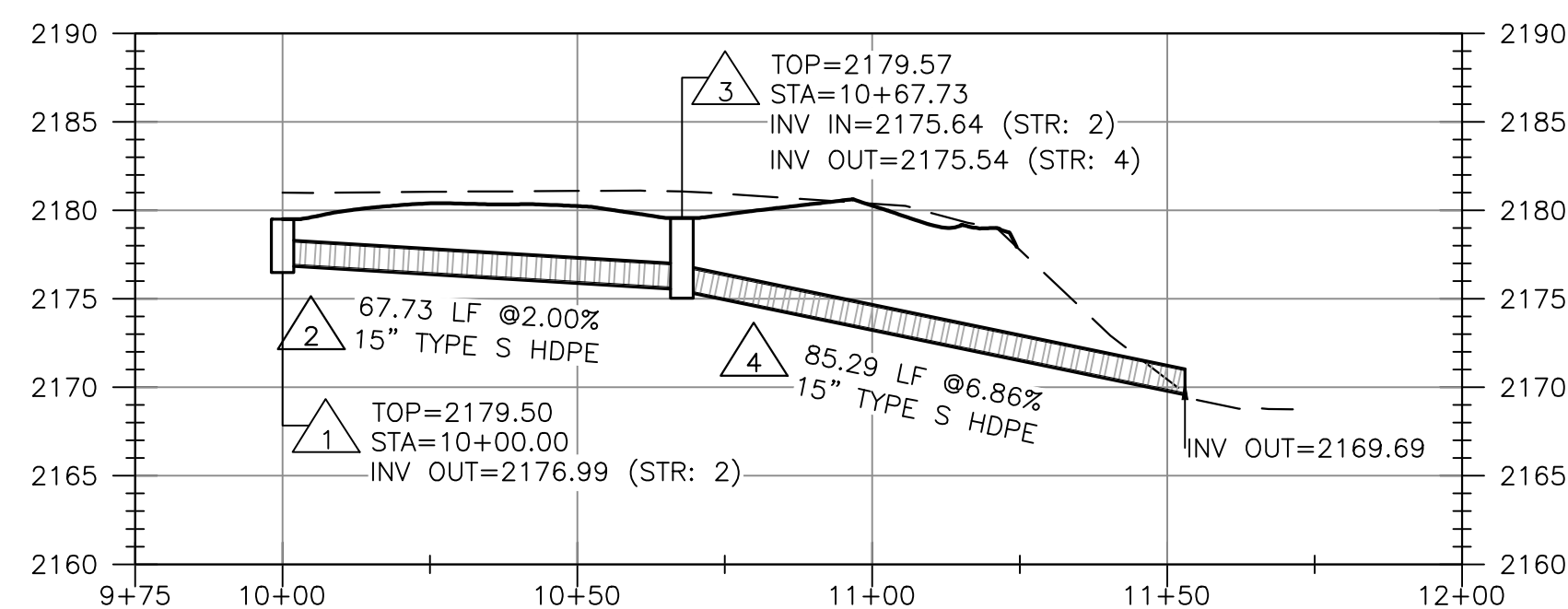
GRADING PLAN

DRAWN BY: WRS
DESIGNED BY: WRS
CHECKED BY: JRT
DATE: 11/17/2023
SCALE: 1" = 30'
REVISIONS:
02/14/2024
03/15/2024
04/15/2024

PROJECT NO. 24230150.00

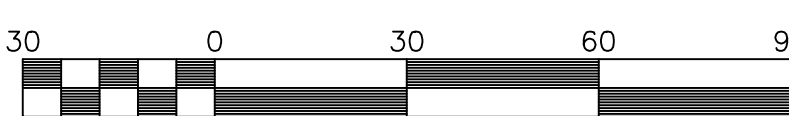


STORM 1-4 PROFILE

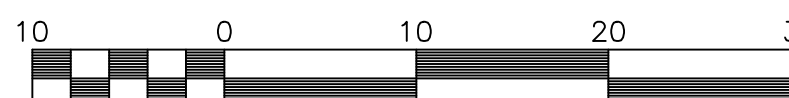


STRUCTURE SCHEDULE

- D1-7
TOP=2179.50 H=3.01'
15" HDPE OUT=2176.99
- 2
67.73 LF OF 15" TYPE S HDPE @ 2.00%
INV. UPPER=2176.99 INV. LOWER=2175.64
- D1-7
TOP=2179.57 H=4.03'
15" HDPE IN=2175.64
15" HDPE OUT=2175.54
- 4
85.29 LF OF 15" HDPE @ 6.86%
INV. UPPER=2175.54 INV. LOWER=2169.69

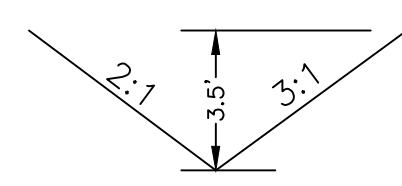


HORIZONTAL SCALE: 1" = 30'



VERTICAL SCALE: 1" = 10'

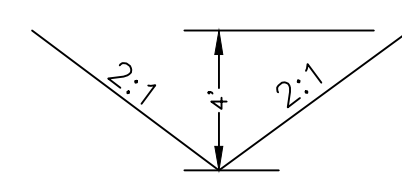
D-2A
DRAINAGE AREA=4.91 AC.



MIN. CONSTRUCTED DEPTH = 3.5 FT
PROFILE GRADE = 2.00%
LINING=EC-3 TYPE 1 (TREATMENT 2)

Q₂ = 12.04 cfs
V₂ = 4.34 fps
Q₁₀ = 16.08 cfs
D₁₀ = 1.21 ft

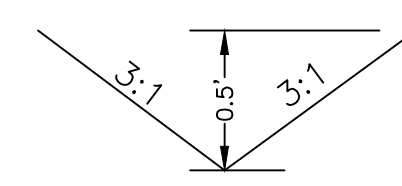
D-2B
DRAINAGE AREA=5.23 AC.



MIN. CONSTRUCTED DEPTH = 4.0 FT
PROFILE GRADE = 2.75%
LINING=EC-3 TYPE 1 (TREATMENT 2)

Q₂ = 12.57 cfs
V₂ = 5.08 fps
Q₁₀ = 16.79 cfs
D₁₀ = 1.34 ft

D-3
DRAINAGE AREA=0.26 AC.

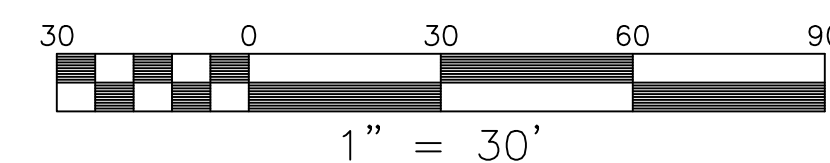


MIN. CONSTRUCTED DEPTH = 0.5 FT
PROFILE GRADE = 5.00%
LINING=EC-2 TYPE 1 (TREATMENT 2)

Q₂ = 0.66 cfs
V₂ = 2.87 fps
Q₁₀ = 0.88 cfs
D₁₀ = 0.31 ft

LEGEND

- LIGHT DUTY ASPHALT PAVING
- HEAVY DUTY ASPHALT PAVING



APPROVED: Engineering Date

APPROVED: Planning Date