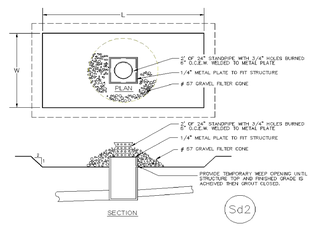
Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. A6

1. Drainage Area = **0.21** ac
2. Required sediment storage (67cy/ac * Da) = **14.07** cy
3. Excavation depth = **1.50** ft
4. Sideslope = **2** :1
5. Determine required surface area (SA_{min} = req'd sediment storage / excavation depth)
   SA_{min} = **9.38** sf
6. Assume shape of excavation and determine dimensions.
   Shape = **RECTANGLE**
   Dimensions: l = 21.96498 ft w = 10.98249 ft
   L = 22.00 ft W = 11.00 ft

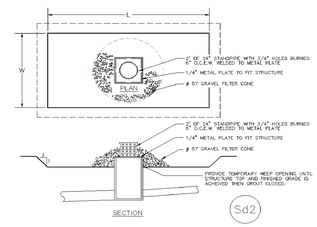


TEMPORARY SEDIMENT TRAP

Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. A4

1. Drainage Area = **0.23** ac
2. Required sediment storage (67cy/ac * Da) = **15.41** cy
3. Excavation depth = **1.50** ft
4. Sideslope = **2** :1
5. Determine required surface area (SA_{min} = req'd sediment storage / excavation depth)
   SA_{min} = **10.27** sf
6. Assume shape of excavation and determine dimensions.
   Shape = **RECTANGLE**
   Dimensions: l = 22.98715 ft w = 11.49357 ft
   L = 23.00 ft W = 11.50 ft

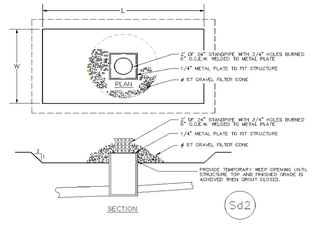


TEMPORARY SEDIMENT TRAP

Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. C1

1. Drainage Area = **0.35** ac
2. Required sediment storage (67cy/ac * Da) = **23.45** cy
3. Excavation depth = **1.50** ft
4. Sideslope = **2** :1
5. Determine required surface area (SA_{min} = req'd sediment storage / excavation depth)
   SA_{min} = **15.63** sf
6. Assume shape of excavation and determine dimensions.
   Shape = **RECTANGLE**
   Dimensions: l = 28.35667 ft w = 14.17833 ft
   L = 28.40 ft W = 14.20 ft

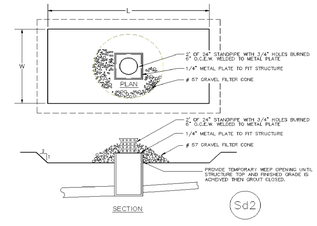


TEMPORARY SEDIMENT TRAP

Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. B1

1. Drainage Area = **0.93** ac
2. Required sediment storage (67cy/ac * Da) = **62.31** cy
3. Excavation depth = **1.50** ft
4. Sideslope = **2** :1
5. Determine required surface area (SA_{min} = req'd sediment storage / excavation depth)
   SA_{min} = **41.54** sf
6. Assume shape of excavation and determine dimensions.
   Shape = **RECTANGLE**
   Dimensions: l = 46.22348 ft w = 23.11174 ft
   L = 46.30 ft W = 23.15 ft



TEMPORARY SEDIMENT TRAP

MOORE CIVIL
CONSULT>DESIGN>ENGINEER
706.224.1629
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GEORGIA REGISTERED No. PE035680 PROFESSIONAL ENGINEER ROBERT EUGENE MOORE

DATE: 06/12/2023

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OWNER INFORMATION:
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REVISIONS:

6/21/22	GRADING PLAN
10/21/22	1st LDP SUBMITTAL
10/21/22	1ST GDOT SUBMITTAL
01/30/2023	NEW LAYOUT
02/21/2023	NEW LAYOUT
05/09/2023	2nd LDP SUBMITTAL
05/09/2023	2nd GDOT SUBMITTAL
12/19/2023	3rd GDOT SUBMITTAL
12/19/2023	3rd LDP SUBMITTAL
03/05/2023	4rd LDP SUBMITTAL
03/05/2023	3rd GDOT SUBMITTAL
04/24/2024	6TH GDOT SUBMITTAL
05/21/2024	7TH GDOT SUBMITTAL
12/12/2024	8TH GDOT SUBMITTAL
03/06/2025	5TH LDP SUBMITTAL
07/03/2025	6TH LDP SUBMITTAL

HWY 81 C-STORE
HWY 81
HAMPTON, GA 30228

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C.741