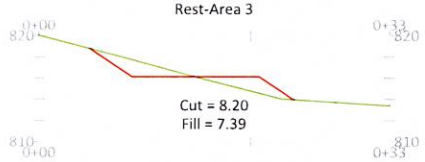
Pin B

Rest-Area 1

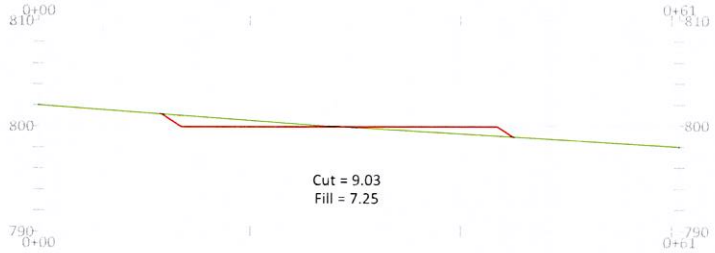
Cut = 6.46
Fill = 9.16

Rest-Area 3



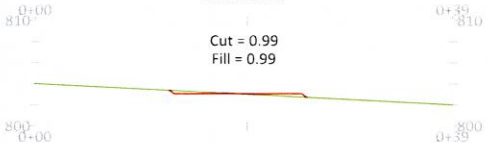
Cut = 8.20
Fill = 7.39

Tee-Box #4



Cut = 9.03
Fill = 7.25

Rest-Area 5

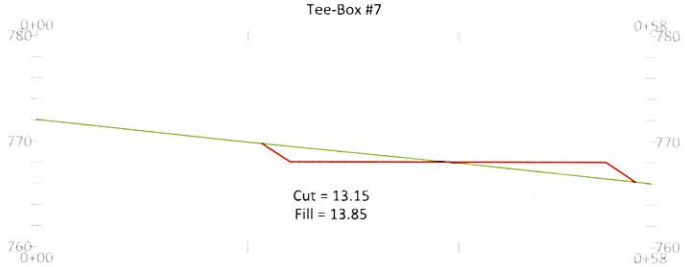


Cut = 0.99
Fill = 0.99

Rest-Area 7

Cut = 6.75
Fill = 8.41

Tee-Box #7



Cut = 13.15
Fill = 13.85

Rest-Area 10

Cut = 1.75
Fill = 1.75

Rest-Area 11

Cut = 0.35
Fill = 0.32

Rest-Area 15

Cut = 3.33
Fill = 2.17

Rest-Area 13

Cut = 2.17
Fill = 1.98

Rest-Area 18

Cut = 17.39
Fill = 10.46

Rest-Area 20

Cut = 5.33
Fill = 4.60

NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: NTS
DRAWN BY: Sam Strickland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Trail\2021-08 Cato Trail.
JOB NO.: P206/21-137	SHEET: 14 Of 14

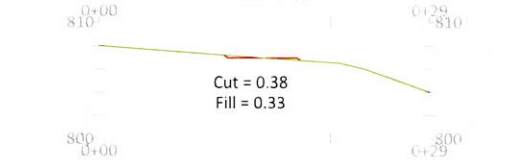
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

REST-AREAS + TEE-BOXES
CROSS-SECTIONS

Station 0+00

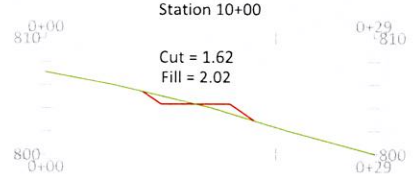


Cut = 0.38
Fill = 0.33

Station 5+00

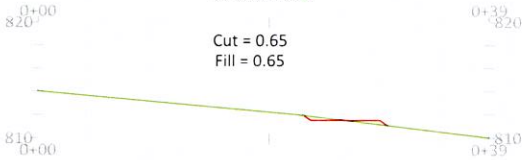
Cut = 0.47
Fill = 0.47

Station 10+00



Cut = 1.62
Fill = 2.02

Station 15+00

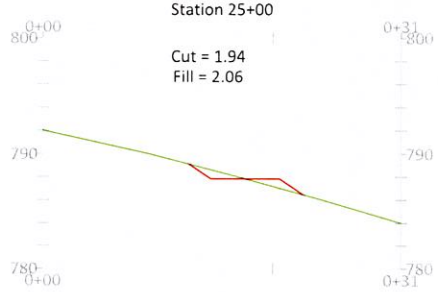


Cut = 0.65
Fill = 0.65

Station 20+00

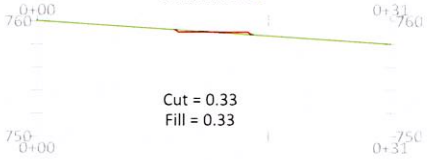
Cut = 1.37
Fill = 1.14

Station 25+00



Cut = 1.94
Fill = 2.06

Station 30+00

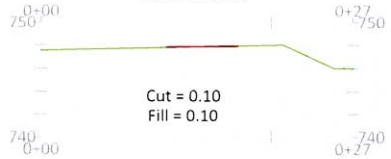


Cut = 0.33
Fill = 0.33

Station 35+00

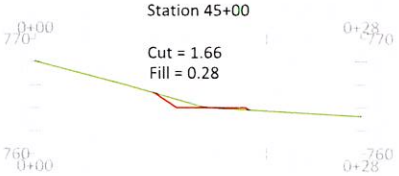
Cut = 0.17
Fill = 0.17

Station 40+00



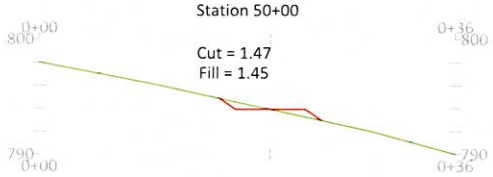
Cut = 0.10
Fill = 0.10

Station 45+00



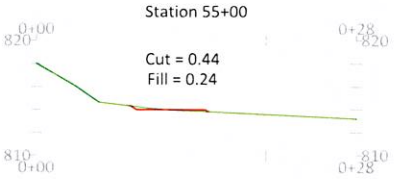
Cut = 1.66
Fill = 0.28

Station 50+00



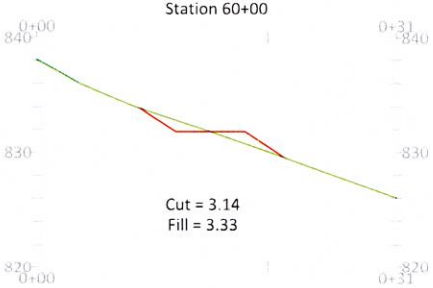
Cut = 1.47
Fill = 1.45

Station 55+00



Cut = 0.44
Fill = 0.24

Station 60+00



Cut = 3.14
Fill = 3.33

NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: NTS
DRAWN BY: Sam Stoneland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Trail\2021-08 Cato Trail
JOB NO.: P206/21-137	SHEET: 13 OF 14

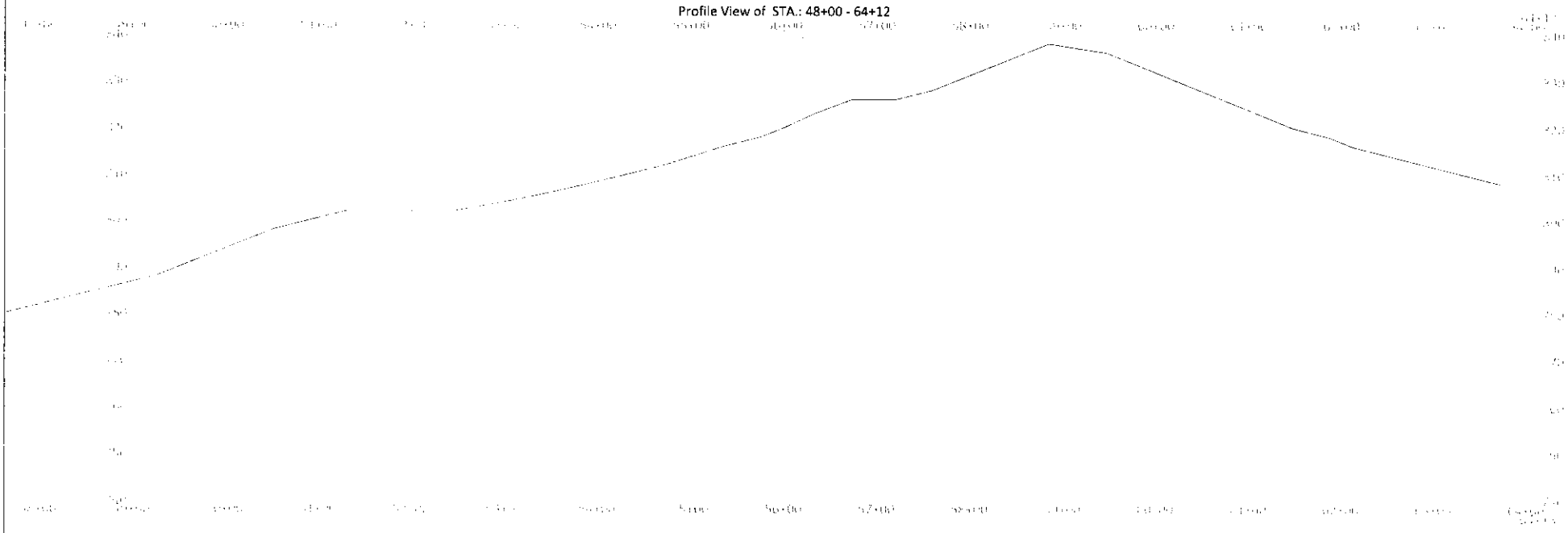
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

TRAIL ALIGNMENT
CROSS-SECTIONS

Profile View of STA.: 48+00 - 64+12



NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE:
DRAWN BY:	DATE:
CHECKED BY:	DRAWING NAME:
JOB NO.: P206/21-137	SHEET:

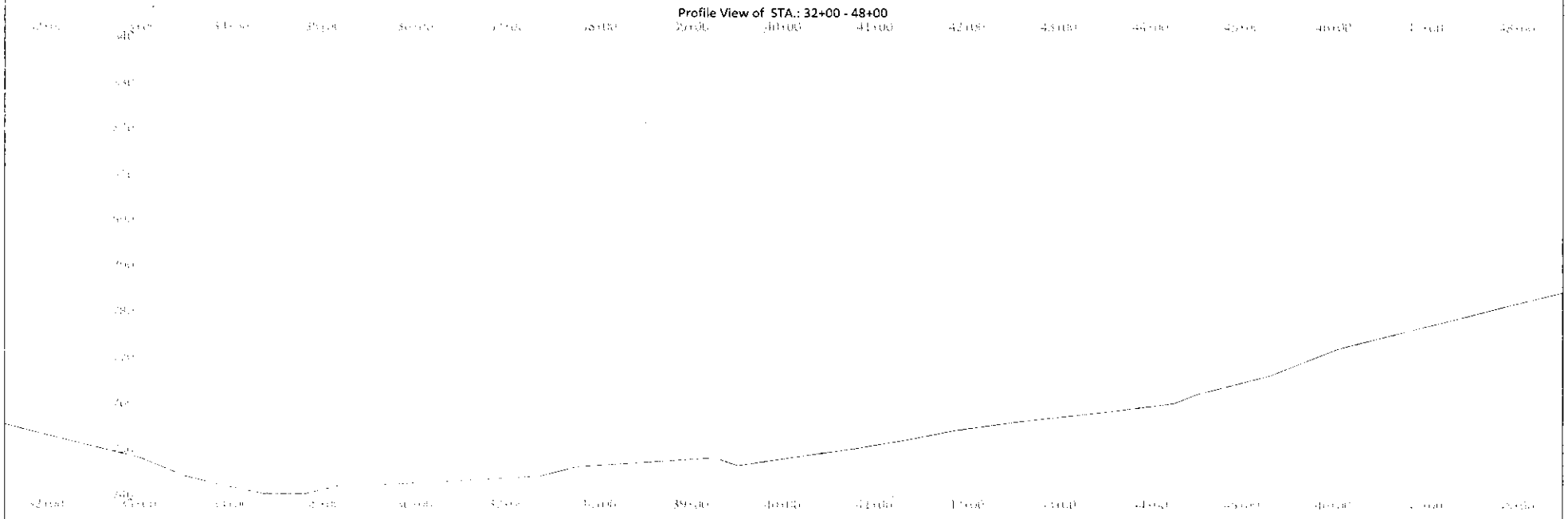
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

TRAIL ALIGNMENT
PROFILE SECTIONS (4/4)

Profile View of STA.: 32+00 - 48+00



NO.	DATE	DESCRIPTION	BY

SURVEYED BY:

DRAWN BY: Sam Moreland

CHECKED BY:

JOB NO.: P206/21 137

SCALE: N.T.S.

DATE: 08/2021

DRAWING NAME:

SHEET: 13 of 14

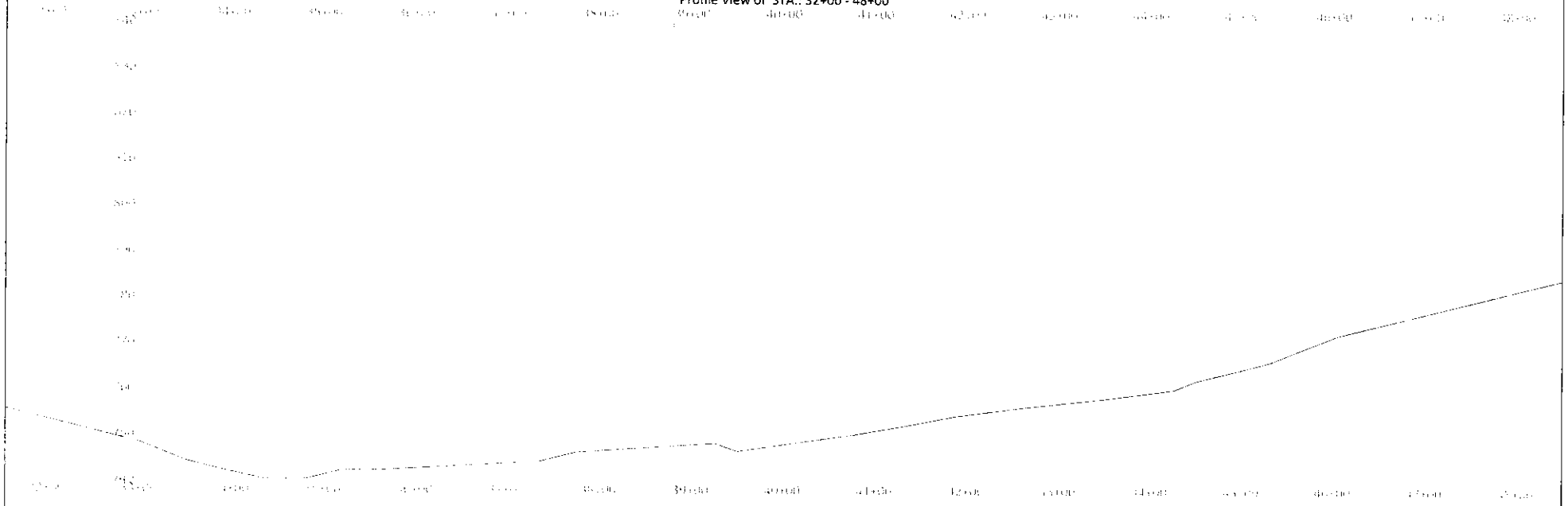
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

TRAIL ALIGNMENT
PROFILE SECTIONS (3/4)

Profile View of STA.: 32+00 - 48+00



NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: N.T.S.
DRAWN BY:	DATE:
CHECKED BY:	DRAWING NAME:
JOB NO. P206/21 137	SHEET:

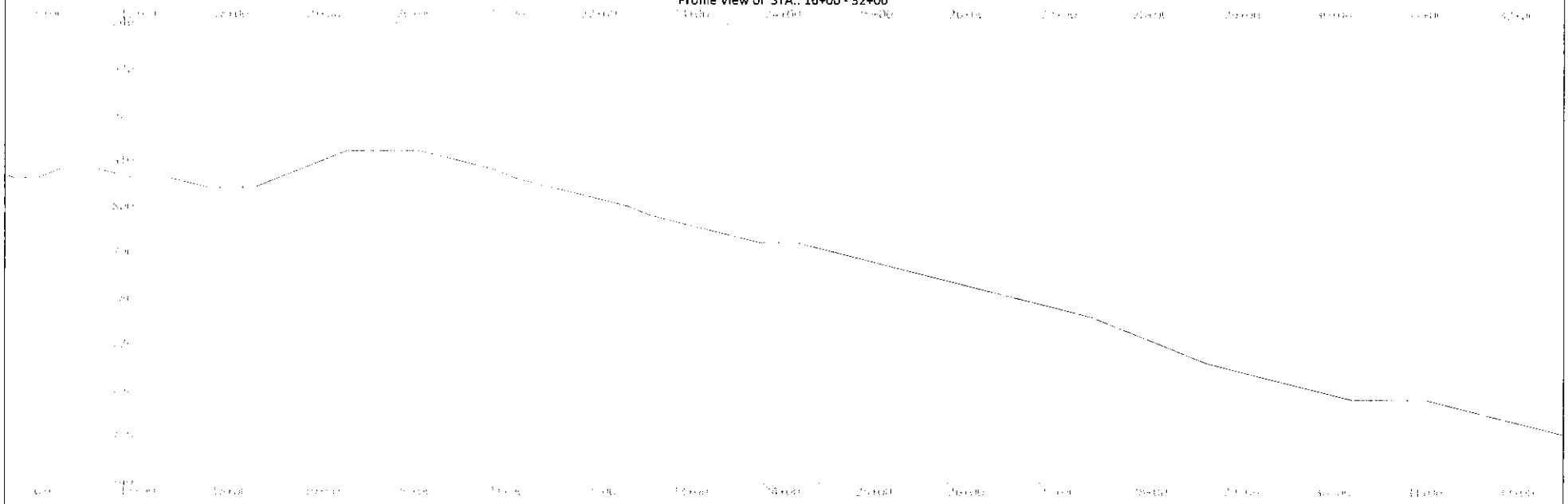
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

TRAIL ALIGNMENT
PROFILE SECTIONS (3/4)

Profile View of STA.: 16+00 - 32+00



NO	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: N.T.S.
DRAWN BY: Sam Strickland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Trail\CLD21 08 Cato Trail
JOB NO.: P206/21 137	SHEET: Sheet 14

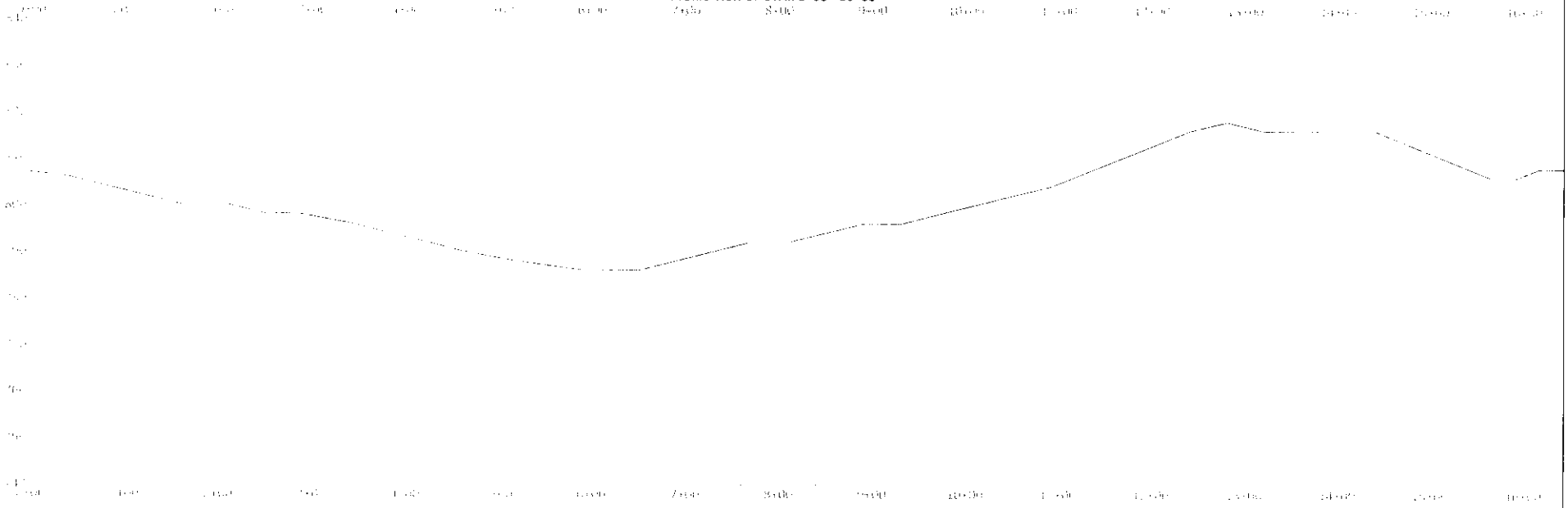
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

TRAIL ALIGNMENT
PROFILE SECTIONS (2/4)

Profile View of STA.: 0+00 - 16+00



NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: N.T.S.
DRAWN BY: Sam Strickland	DATE: 06/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Trail\CAD\Cato Trail
JOB NO.: 17206/21 13/	SHEET: 9 of 14

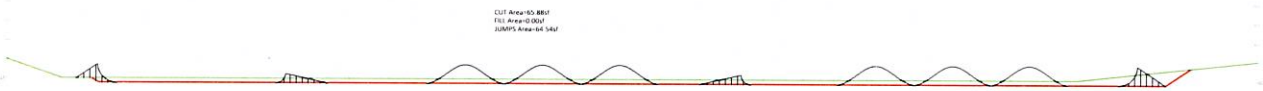
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

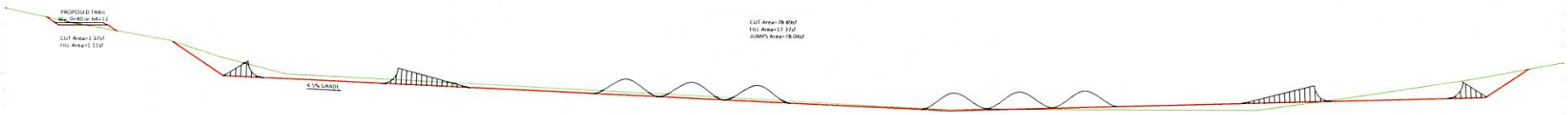
CATO BIKE-HIKE TRAIL

TRAIL ALIGNMENT
PROFILE SECTIONS (1/4)

PUMP TRACK E-W SECTION-UPPER



PUMP TRACK E-W SECTION-MIDDLE



PUMP TRACK E-W SECTION-LOWER

NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: N.T.S.
DRAWN BY: Sam Strickland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Track\2021 08 Cato Trail.
JOB NO.: P206/21-137	SHEET: 8 OF 14

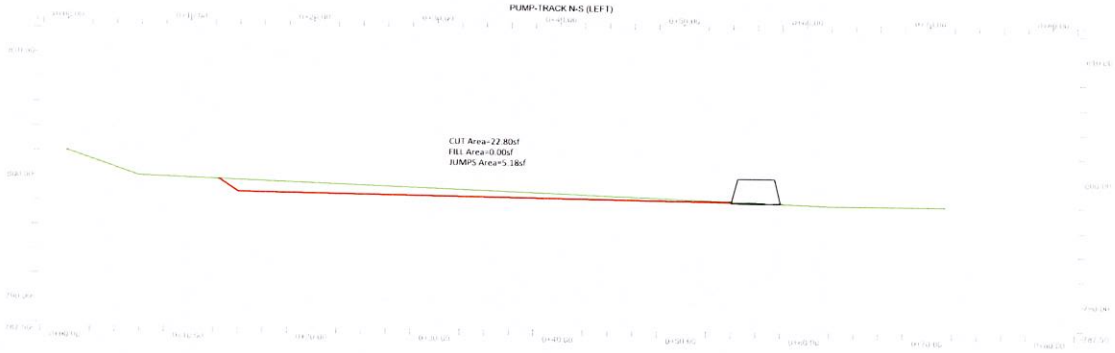
CITY OF CHARLESTON

ENGINEERING DEPARTMENT

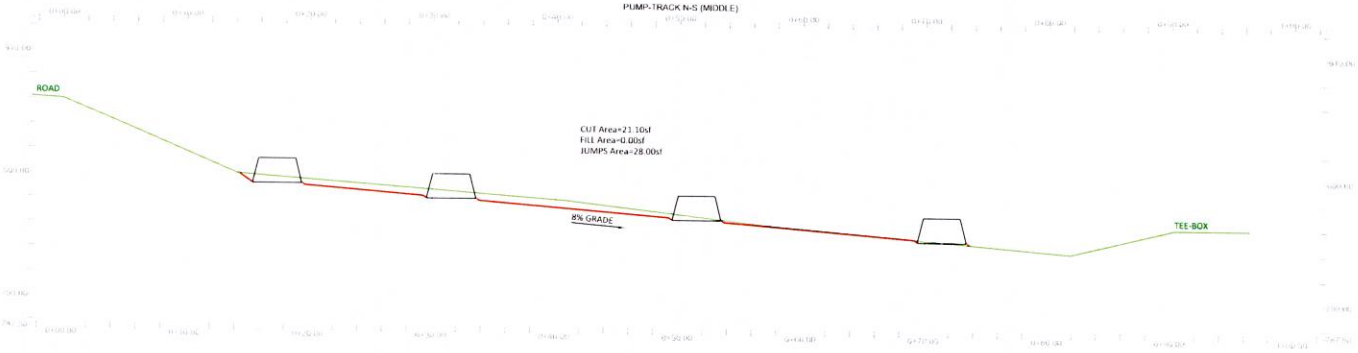
CATO BIKE-HIKE TRAIL

PUMP TRACK
CROSS-SECTIONS E-W

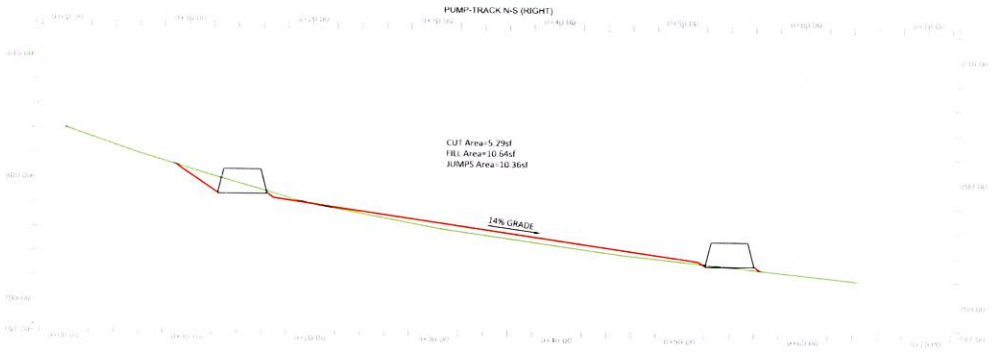
PUMP-TRACK N-S (LEFT)



PUMP-TRACK N-S (MIDDLE)



PUMP-TRACK N-S (RIGHT)



NO.	DATE	DESCRIPTION	BY

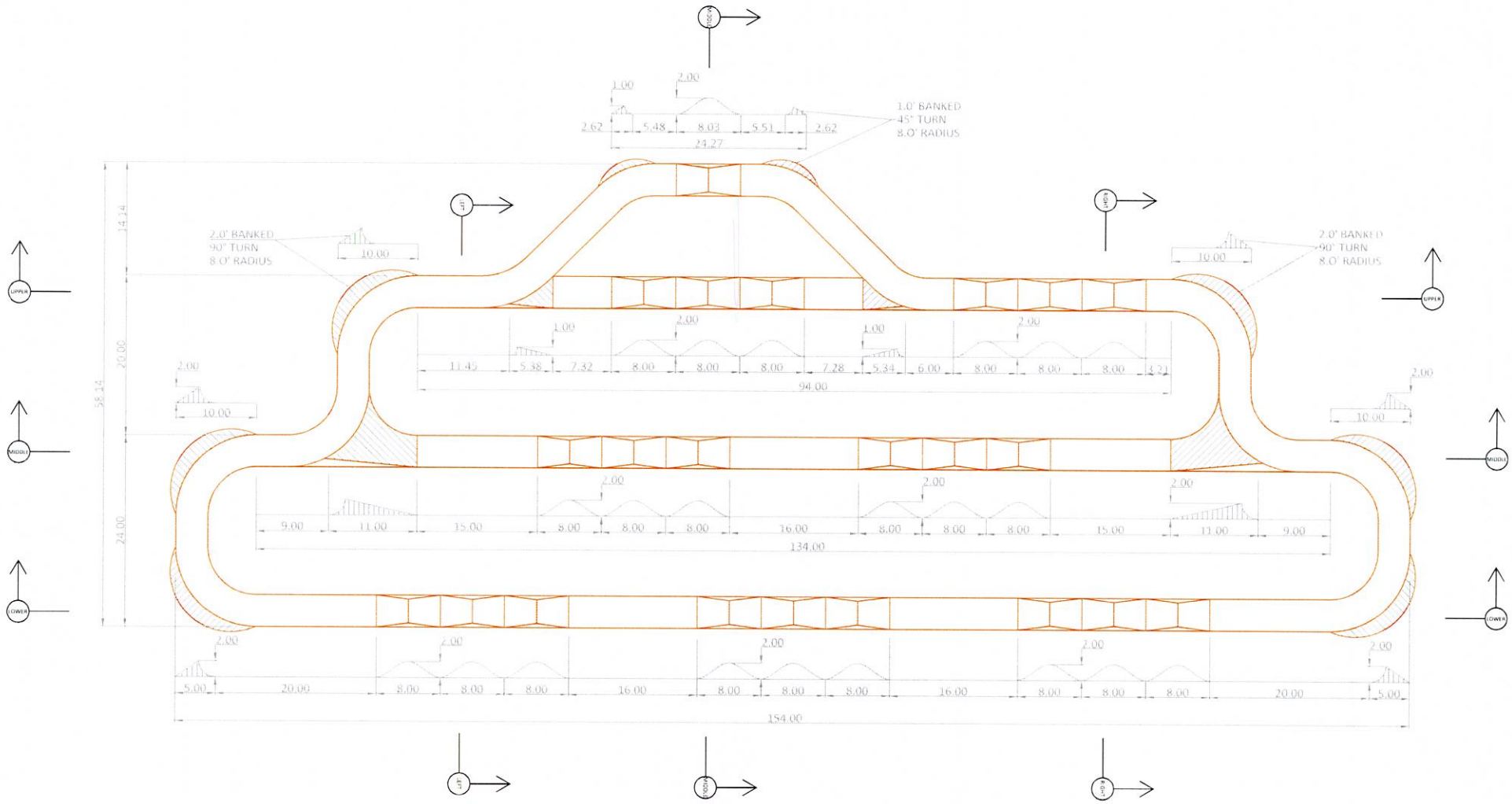
SURVEYED BY:	SCALE: NTS
DRAWN BY: Sam Strickland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Trails\2021-08 Cato Trail
JOB NO.: P206/21-137	SHEET: 7 OF 14

CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

PUMP TRACK
CROSS-SECTIONS N-S



PUMP-TRACK PATH WIDTH = 4'-0"

NO.	DATE	DESCRIPTION	BY

SURVEYED BY:	SCALE: NTS
DRAWN BY: Sam Strickland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Track\2021-08 Cato Trail
JOB NO.: P206/21-137	SHEET: 6 OF 14

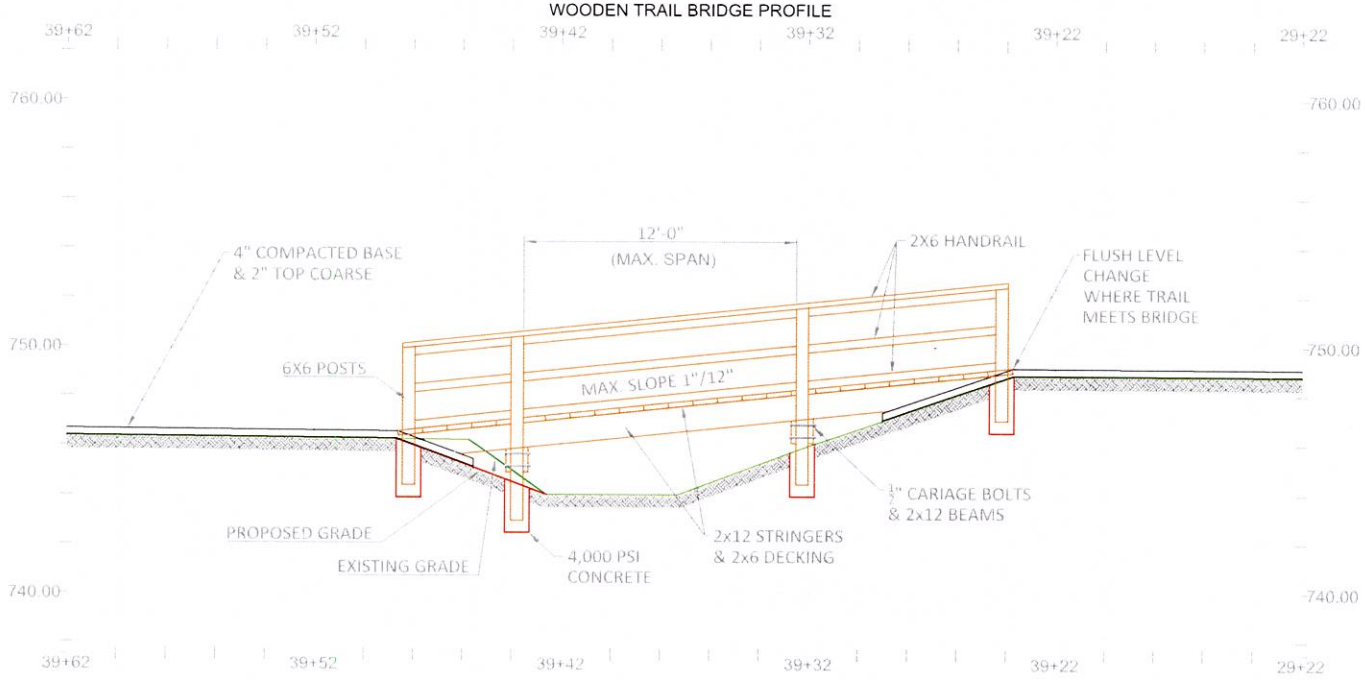
CITY OF CHARLESTON

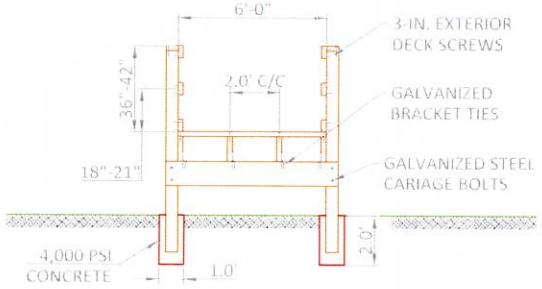
ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

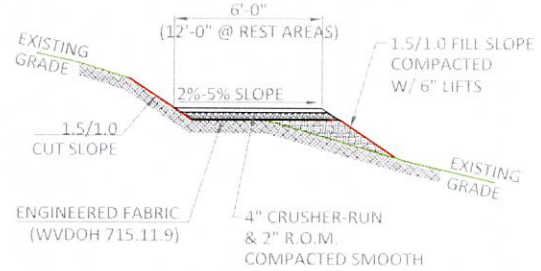
PUMP TRACK
PLAN VIEW

WOODEN TRAIL BRIDGE PROFILE

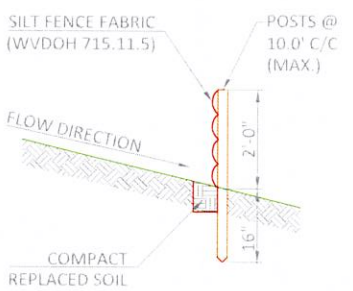




WOODEN TRAIL BRIDGE DETAIL



TRAIL SECTION DETAIL



SILT FENCE DETAIL

NO.	DATE	DESCRIPTION	BY

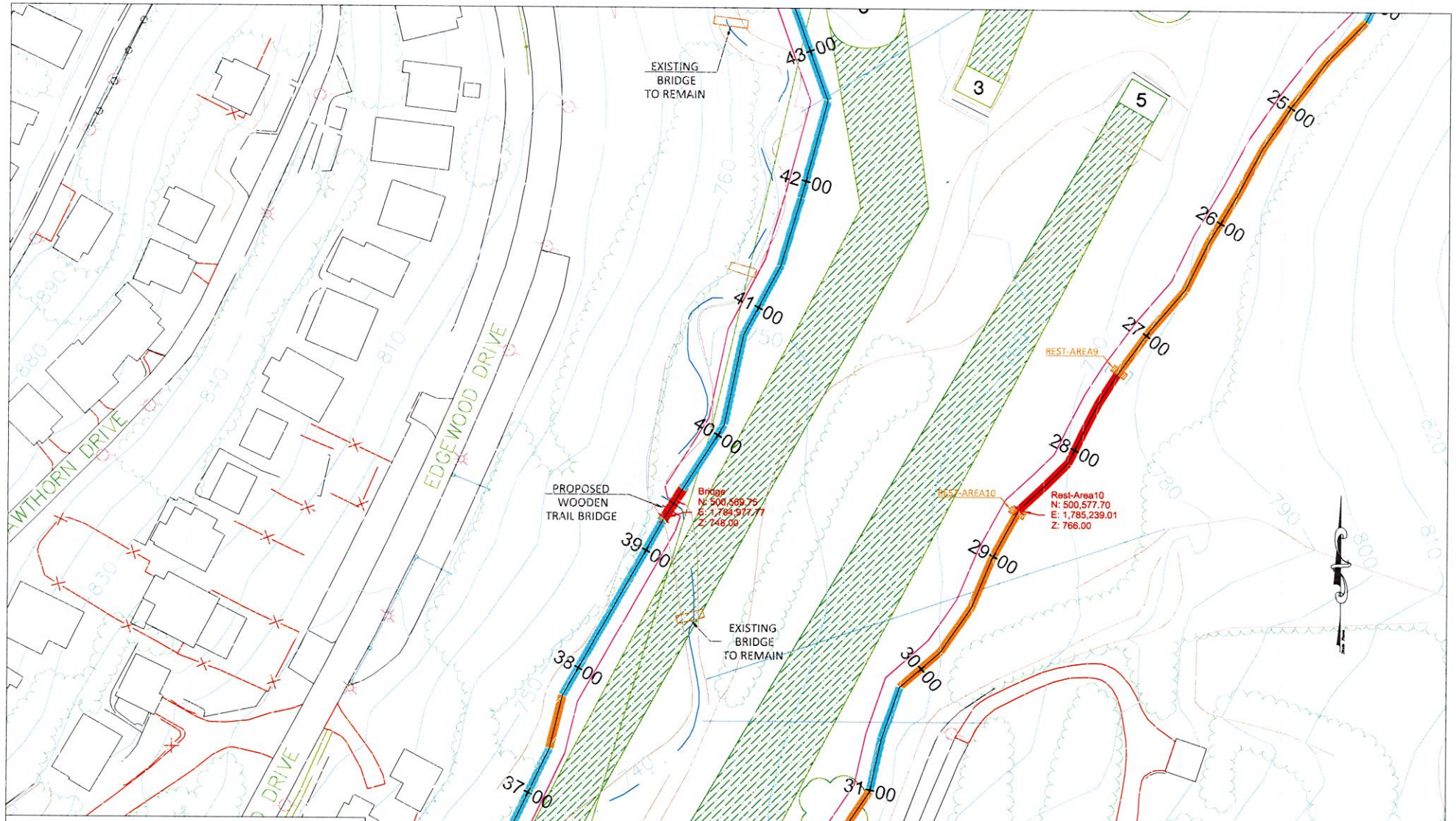
SURVEYED BY:	SCALE: N.T.S.
DRAWN BY: Sam Strickland	DATE: 08/2021
CHECKED BY:	DRAWING NAME: H:\Cato Park Bike Trail\2021 08 Cato Trail
JOB NO.: P206/21-137	SHEET: 5 OF 14

CITY OF CHARLESTON

ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

TRAIL BRIDGE PROFILE
AND DETAILS



LEGEND:

- 0%-4% GRADE / 5% GRADE / 6%-8% GRADE — PROPOSED TRAIL
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED CONTOURS
- PROPOSED SILT FENCE
- EXISTING CONTOURS
- EXISTING SPRINKLERS
- GOLF COURSE LAYOUT
- 3'X5' REST AREAS

TRAIL ALIGNMENT NOTES:

- Round trip distance= 6,412 ft (1.9 km or 1.2 mi)
- Maximum slope= 8% with rest areas
- Cross slope = 2% – 5%
- 4.0" thick of crusher-run aggregate base with eng. fabric
- 2.0" thick of run-of-mines aggregate top course
- 6'-0" wide trail, compacted w/ smooth roller
- Total elevation difference = 98 ft

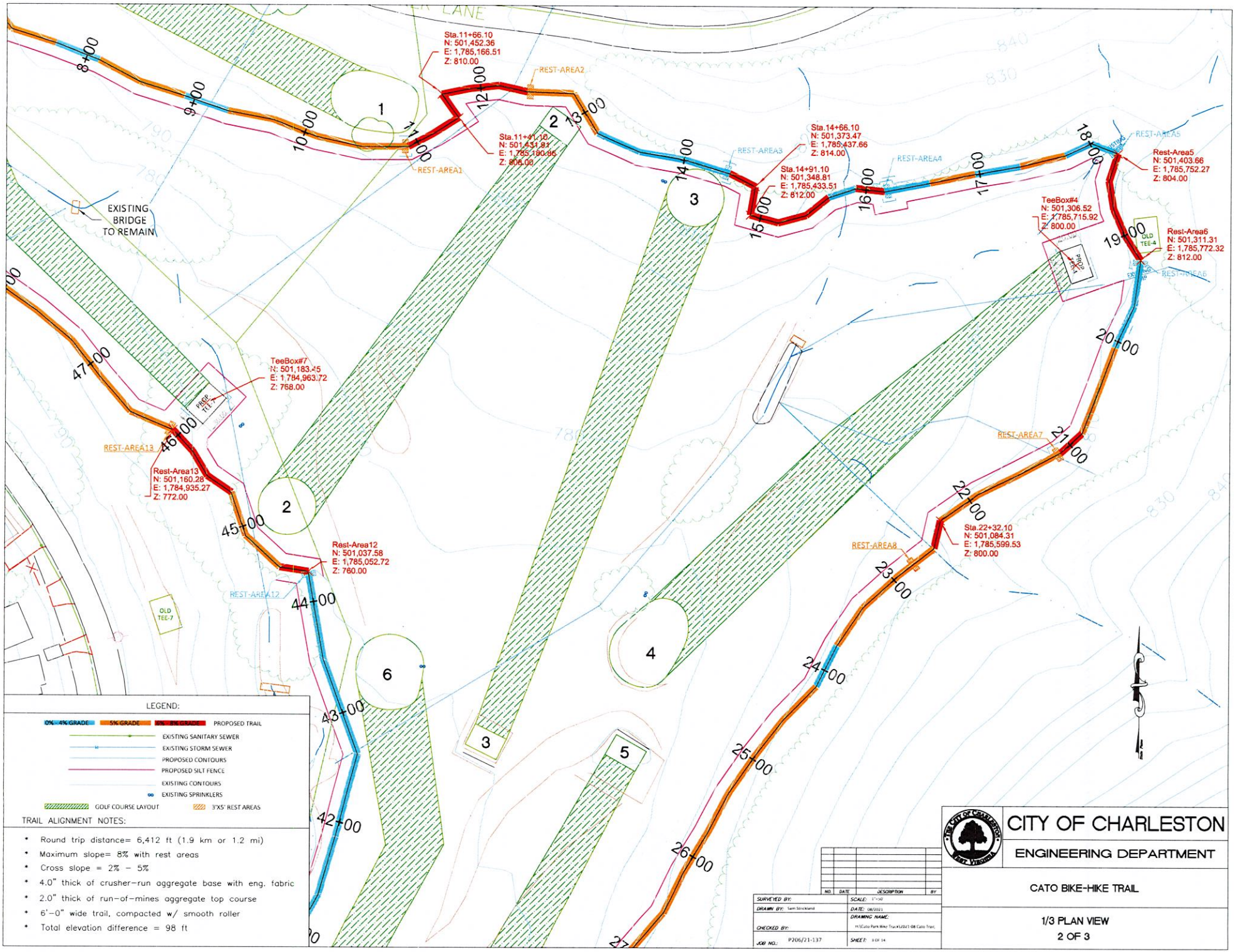
NO.	DATE	DESCRIPTION	BY

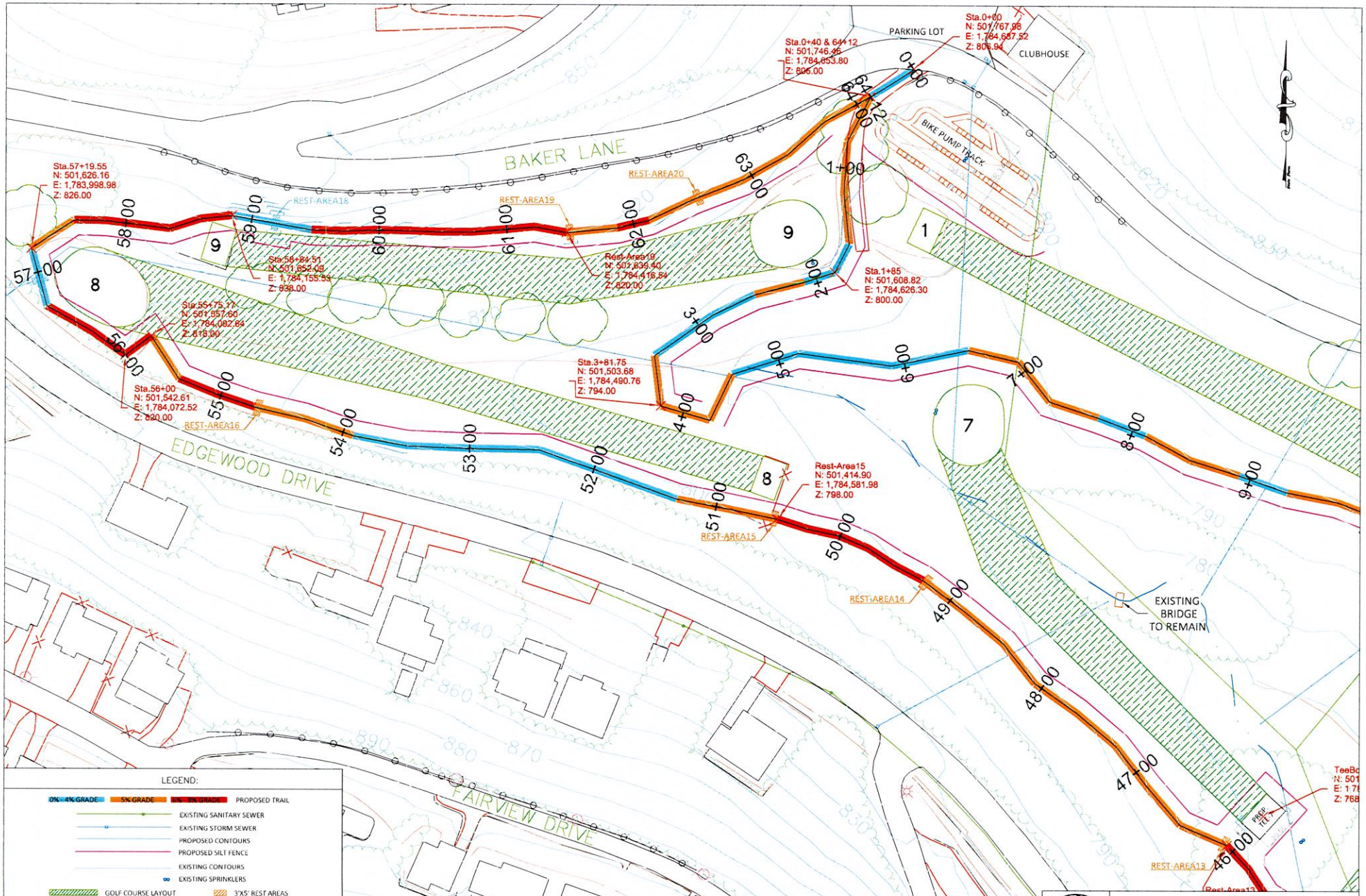
SURVEYED BY:
DRAWN BY: Sam Strickland
CHECKED BY:
JOB NO.: P206/21-137
SCALE: 1"=50'
DATE: 08/2021
DRAWING NAME: H:\Cato Park Bike Trail\2021 08 Cato Trail
SHEET: 4 OF 14

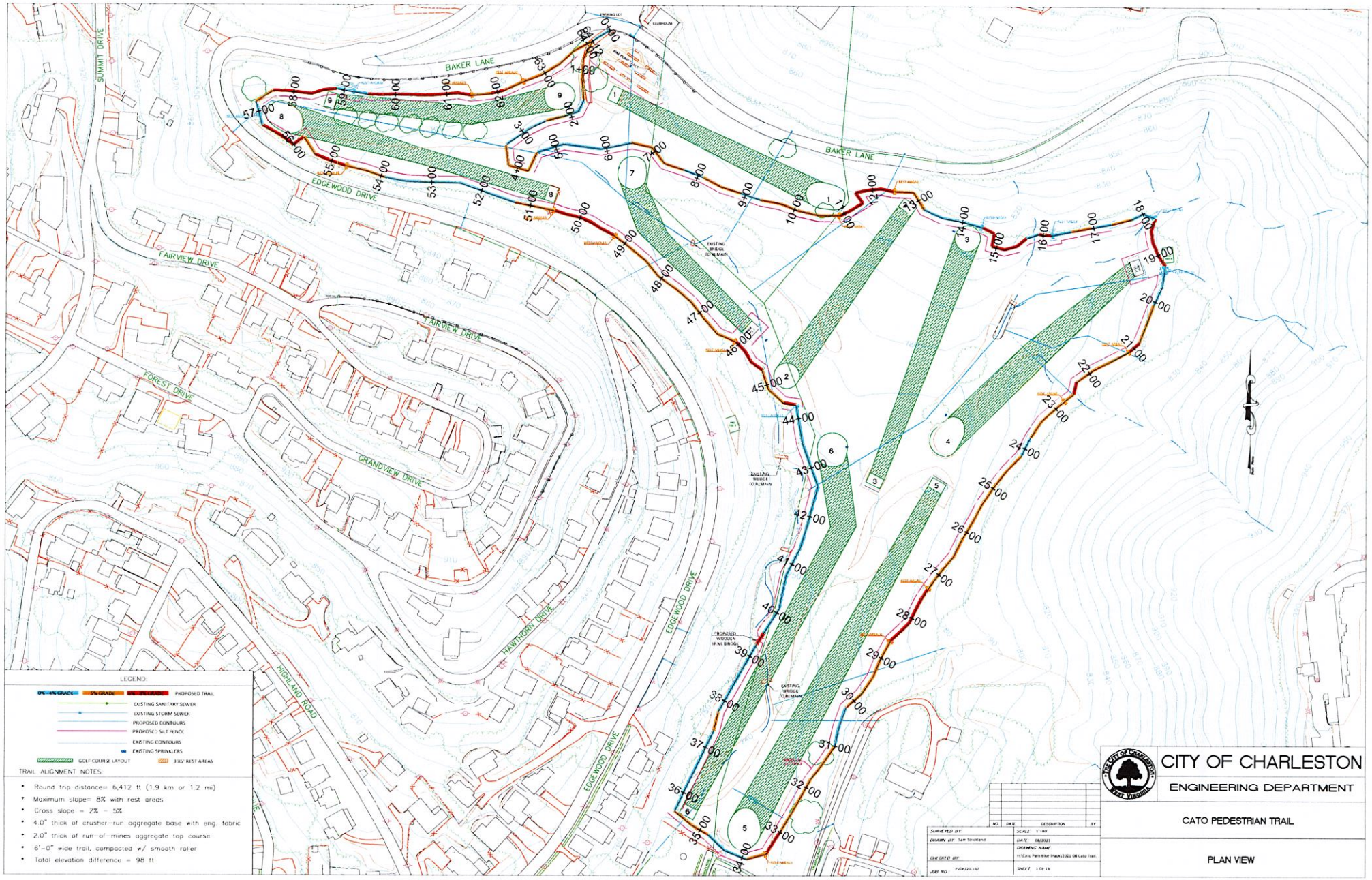
CITY OF CHARLESTON
ENGINEERING DEPARTMENT

CATO BIKE-HIKE TRAIL

1/3 PLAN VIEW
3 OF 3


Sta.11+66.10
N: 501,452.36
E: 1,785,166.51
Z: 810.00
Sta.11+41.10
N: 501,431.91
E: 1,785,180.85
Z: 805.00
Sta.14+66.10
N: 501,373.47
E: 1,785,437.66
Z: 814.00
Sta.14+91.10
N: 501,348.81
E: 1,785,433.51
Z: 812.00
Rest-Area5
N: 501,403.66
E: 1,785,752.27
Z: 804.00
TeeBox#4
N: 501,306.52
E: 1,785,715.92
Z: 800.00
Rest-Area6
N: 501,311.31
E: 1,785,772.32
Z: 812.00
TeeBox#7
N: 501,183.45
E: 1,784,963.72
Z: 768.00
Rest-Area13
N: 501,160.28
E: 1,784,935.27
Z: 772.00
Rest-Area12
N: 501,037.58
E: 1,785,052.72
Z: 760.00
Sta.22+32.10
N: 501,084.31
E: 1,785,599.53
Z: 800.00
EXISTING BRIDGE TO REMAIN
REST-AREA1
REST-AREA2
REST-AREA3
REST-AREA4
REST-AREA5
REST-AREA6
REST-AREA7
REST-AREA8
REST-AREA12
REST-AREA13
OLD TEE-4
OLD TEE-7
PROP. TEE-4
PROP. TEE-7
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
42+00
43+00
44+00
45+00
46+00
47+00
LEGEND:
0% - 4% GRADE
5% GRADE
6% - 8% GRADE
PROPOSED TRAIL
EXISTING SANITARY SEWER
EXISTING STORM SEWER
PROPOSED CONTOURS
PROPOSED SILT FENCE
EXISTING CONTOURS
EXISTING SPRINKLERS
GOLF COURSE LAYOUT
3'X5' REST AREAS
TRAIL ALIGNMENT NOTES:
• Round trip distance= 6,412 ft (1.9 km or 1.2 mi)
• Maximum slope= 8% with rest areas
• Cross slope = 2% - 5%
• 4.0" thick of crusher-run aggregate base with eng. fabric
• 2.0" thick of run-of-mines aggregate top course
• 6'-0" wide trail, compacted w/ smooth roller
• Total elevation difference = 98 ft
NO. DATE DESCRIPTION BY
SURVEYED BY:
DRAWN BY: Sam Strickland
CHECKED BY:
JOB NO.: P206/21-137
SCALE:
DATE: 08/2021
DRAWING NAME:
SHEET: 3 OF 14
CITY OF CHARLESTON
ENGINEERING DEPARTMENT
CATO BIKE-HIKE TRAIL
1/3 PLAN VIEW
2 OF 3


BAKER LANE
EDGEWOOD DRIVE
FAIRVIEW DRIVE
PARKING LOT
CLUBHOUSE
BIKE PUMP TRACK
EXISTING BRIDGE TO REMAIN
Sta.0+00
N: 501,767.98
E: 1,784,657.52
Z: 806.94
Sta.0+40 & 64+12
N: 501,746.46
E: 1,784,653.80
Z: 806.00
Sta.1+85
N: 501,608.82
E: 1,784,626.30
Z: 800.00
Sta.3+81.75
N: 501,503.68
E: 1,784,490.76
Z: 794.00
Sta.56+00
N: 501,542.61
E: 1,784,072.52
Z: 820.00
Sta.57+19.55
N: 501,626.16
E: 1,783,998.98
Z: 826.00
Rest-Area15
N: 501,414.90
E: 1,784,581.98
Z: 798.00
Rest-Area19
N: 501,839.40
E: 1,784,416.84
Z: 820.00
REST-AREA13
REST-AREA14
REST-AREA15
REST-AREA16
REST-AREA18
REST-AREA19
REST-AREA20
LEGEND:
0% - 4% GRADE
5% GRADE
6% - 8% GRADE
PROPOSED TRAIL
EXISTING SANITARY SEWER
EXISTING STORM SEWER
PROPOSED CONTOURS
PROPOSED SILT FENCE
EXISTING CONTOURS
EXISTING SPRINKLERS
GOLF COURSE LAYOUT
3'X5' REST AREAS
TRAIL ALIGNMENT NOTES:
• Round trip distance= 6,412 ft (1.9 km or 1.2 mi)
• Maximum slope= 8% with rest areas
• Cross slope = 2% – 5%
• 4.0" thick of crusher-run aggregate base with eng. fabric
• 2.0" thick of run-of-mines aggregate top course
• 6'-0" wide trail, compacted w/ smooth roller
• Total elevation difference = 98 ft
NO. DATE DESCRIPTION BY
SURVEYED BY:
DRAWN BY: Sam Strickland
CHECKED BY:
JOB NO.: P206/21-137
SCALE: 1"=50'
DATE: 08/2021
DRAWING NAME: H:\Cato Park Bike Track\2021 08 Cato Trail
SHEET: 2 OF 14
CITY OF CHARLESTON
ENGINEERING DEPARTMENT
CATO BIKE-HIKE TRAIL
1/3 PLAN VIEW
1 OF 3


BAKER LANE
SUMMIT DRIVE
EDGEWOOD DRIVE
FAIRVIEW DRIVE
FOREST DRIVE
GRANDVIEW DRIVE
HAWTHORN DRIVE
HIGHLAND ROAD
EXISTING BRIDGE TO REMAIN
PROPOSED WOODEN TRAIL BRIDGE
LEGEND:
0%-4% GRADE
5% GRADE
PROPOSED TRAIL
EXISTING SANITARY SEWER
EXISTING STORM SEWER
PROPOSED CONTOURS
PROPOSED SILT FENCE
EXISTING CONTOURS
EXISTING SPRINKLERS
GOLF COURSE LAYOUT
3X5' REST AREAS
TRAIL ALIGNMENT NOTES:
• Round trip distance= 6,412 ft (1.9 km or 1.2 mi)
• Maximum slope= 8% with rest areas
• Cross slope = 2% - 5%
• 4.0" thick of crusher-run aggregate base with eng. fabric
• 2.0" thick of run-of-mines aggregate top course
• 6'-0" wide trail, compacted w/ smooth roller
• Total elevation difference = 98 ft
CITY OF CHARLESTON
ENGINEERING DEPARTMENT
CATO PEDESTRIAN TRAIL
PLAN VIEW
NO. DATE DESCRIPTION BY
SURVEYED BY:
DRAWN BY: Sam Strickland
CHECKED BY:
JOB NO.: F20/21-137
SCALE: 1"=40'
DATE: 08/2021
DRAWING NAME: H:\Cato Park Bike Trails\2021 08 Cato Trail
SHEET: 1 OF 14