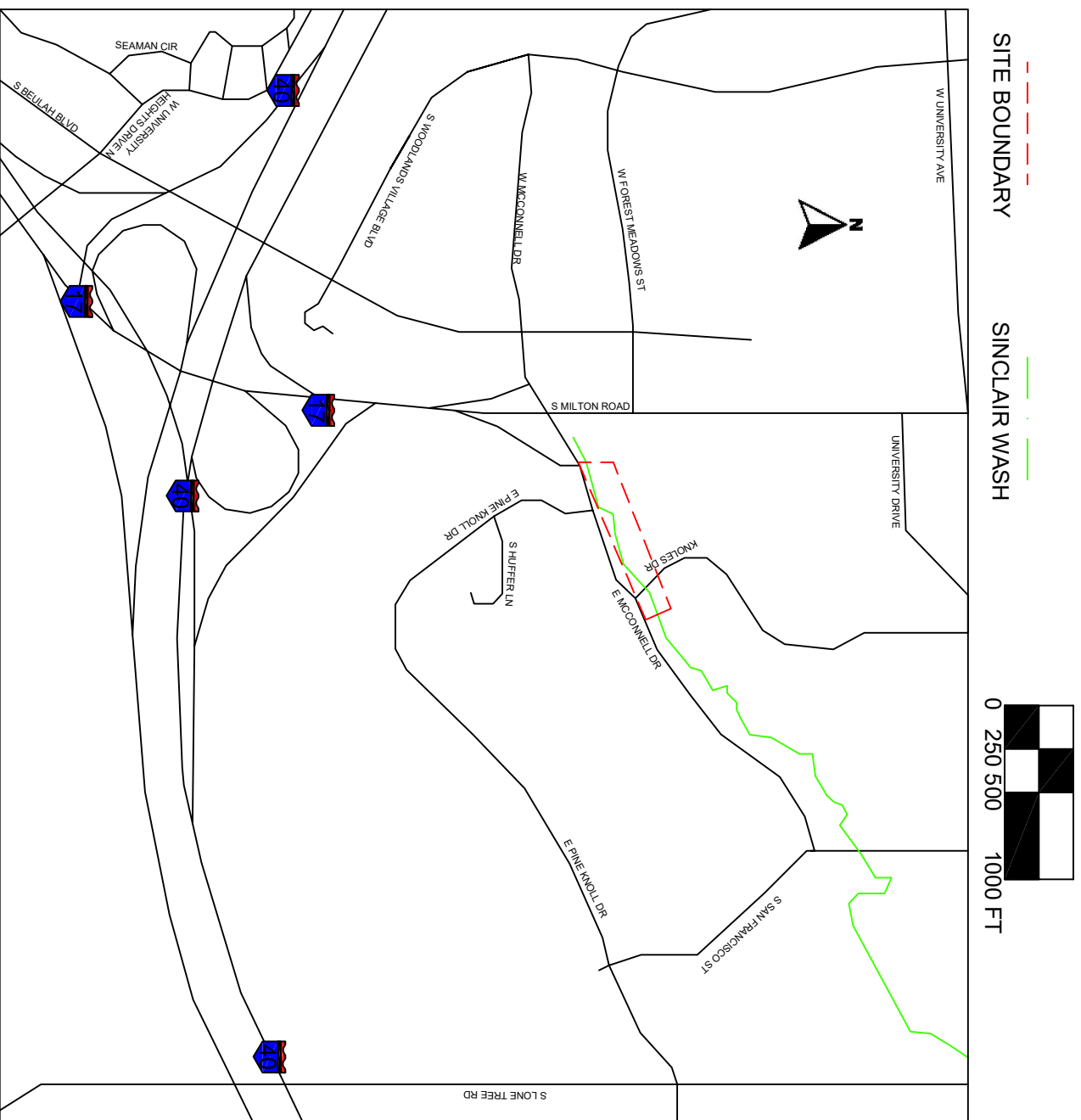


SINCLAIR WASH RESTORATION

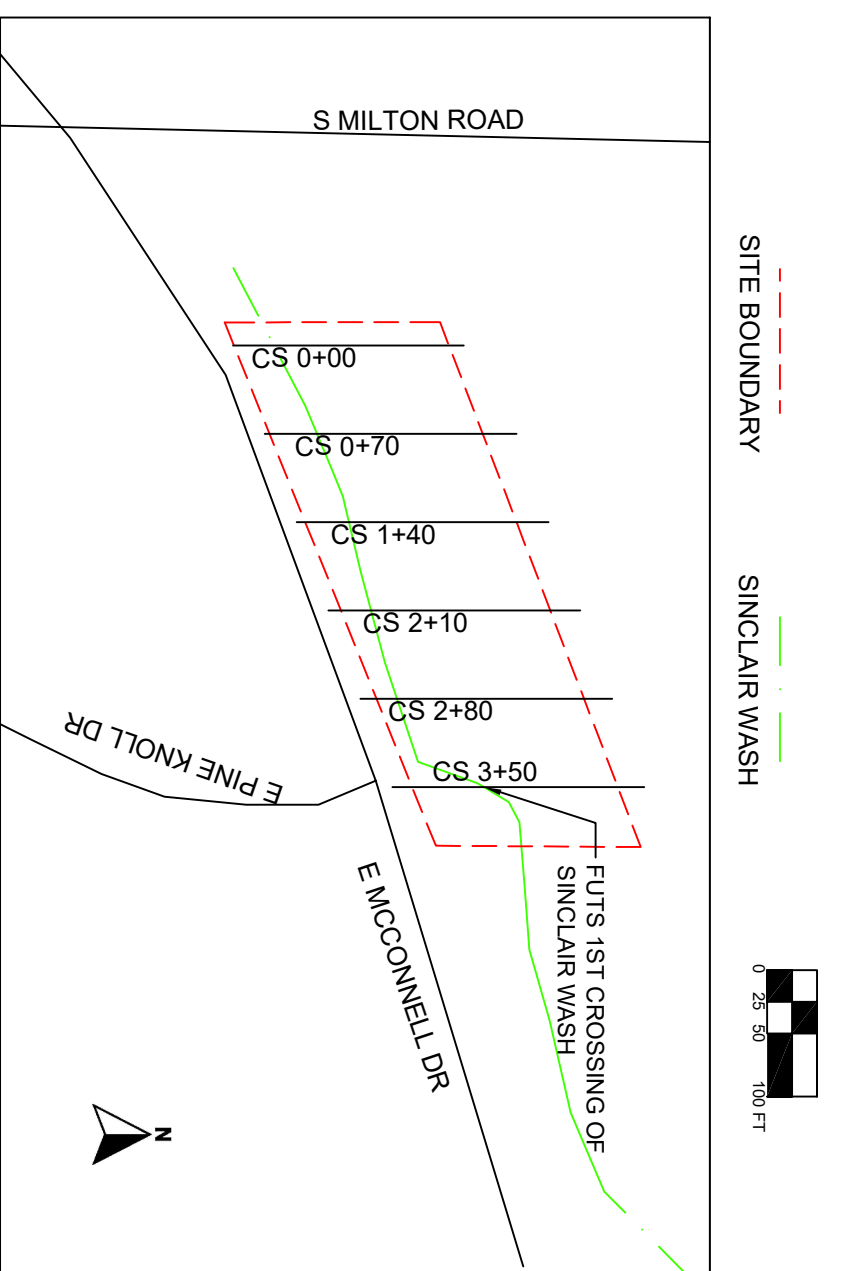
RED ROCK ENGINEERING

NORTHERN ARIZONA UNIVERSITY

PROJECT LOCATION



SITE PLAN



INDEX OF SHEETS

- 1 - TITLE PAGE, SHEET INDEX, SITE PLAN
- 2 - CHANNEL PLAN VIEW
- 3 - CHANNEL CROSS SECTIONS & PROFILES OF CROSS SECTIONS
- 4 - PROFILES OF CROSS SECTIONS
- 5 - PROFILES OF CROSS SECTIONS
- 6 - PROFILE OF CROSS SECTIONS AND THALWEG
- 7 - CHANNEL DETAILS
- 8 - CULVERT DETAILS
- 9 - RE-VEGETATION PLAN



CLIENT: MARK LAMER	REVISIONS	
PROJECT: WASH RESTORATION	SS	4/26
AUTHOR: S. SEYMOUR		FIXED INDEX OF SHEETS
DATE: 04/26/21		

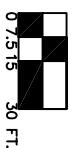
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SHEET

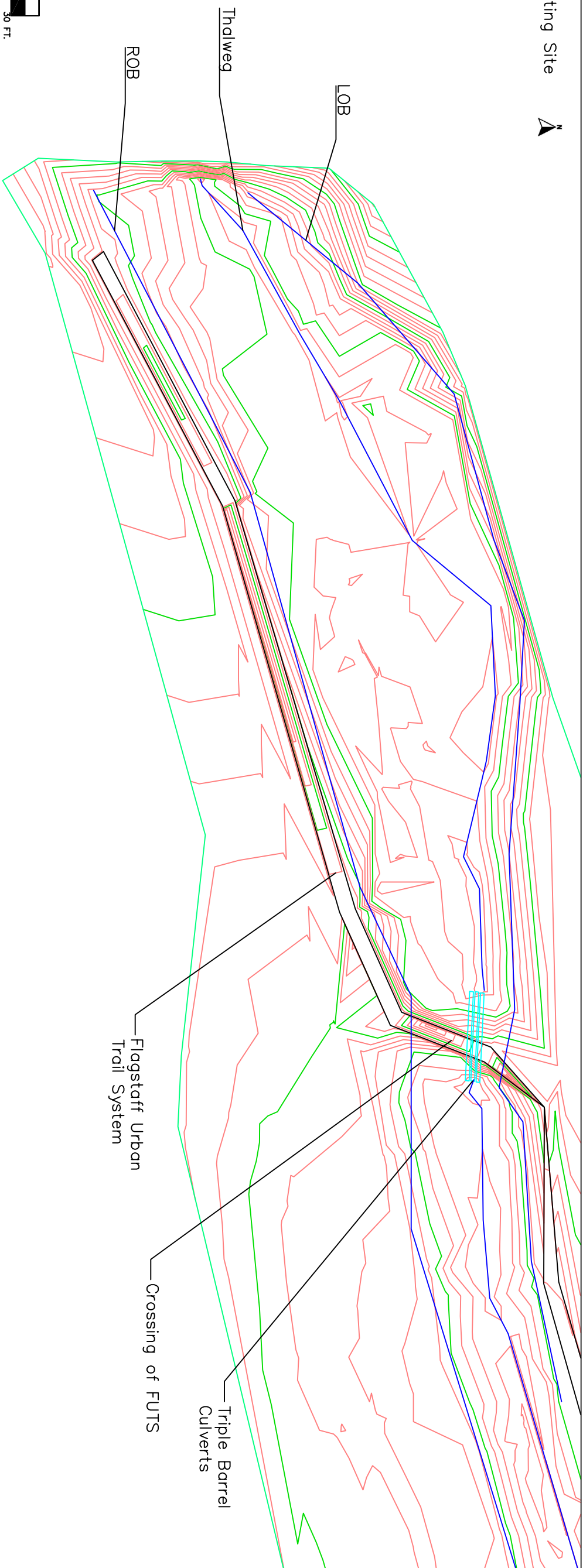
1

OF 9

Existing Site



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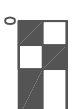


SHEET

2

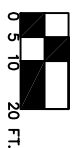
OF 9

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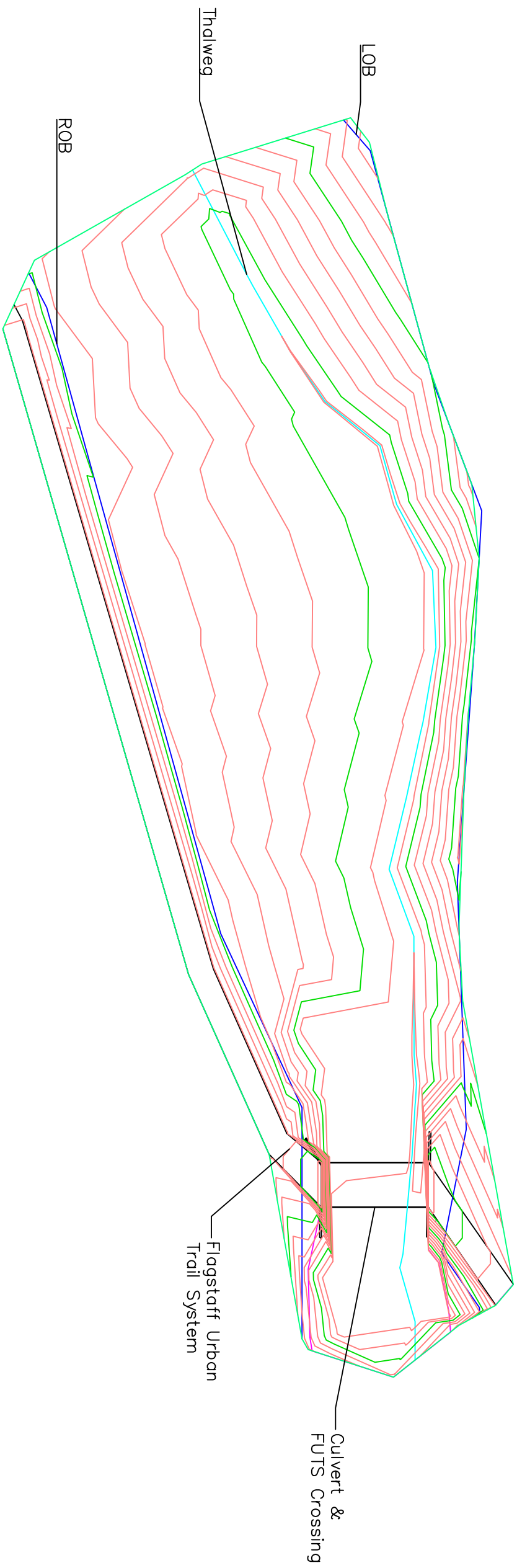


0 5 10 20 FT.

Proposed Site



0 5 10 20 FT.



REVISIONS

SS	2/9	ADDED PLAN VIEWS
SS	3/11	UPATED PROPOSED VIEW
SS	4/26	FINALISED SCALE

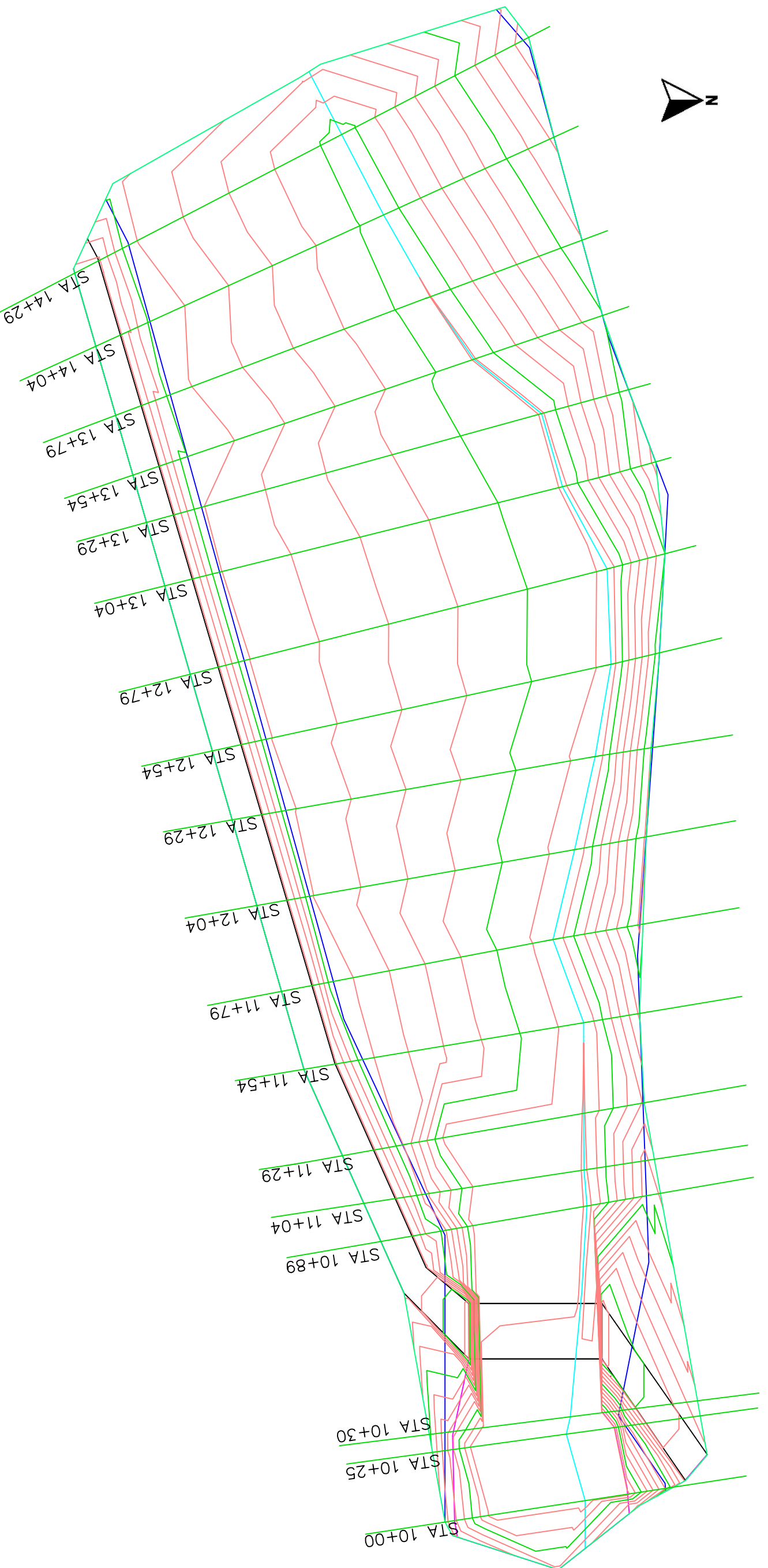
CLIENT: MARK LAMER

PROJECT: WASH RESTORATION

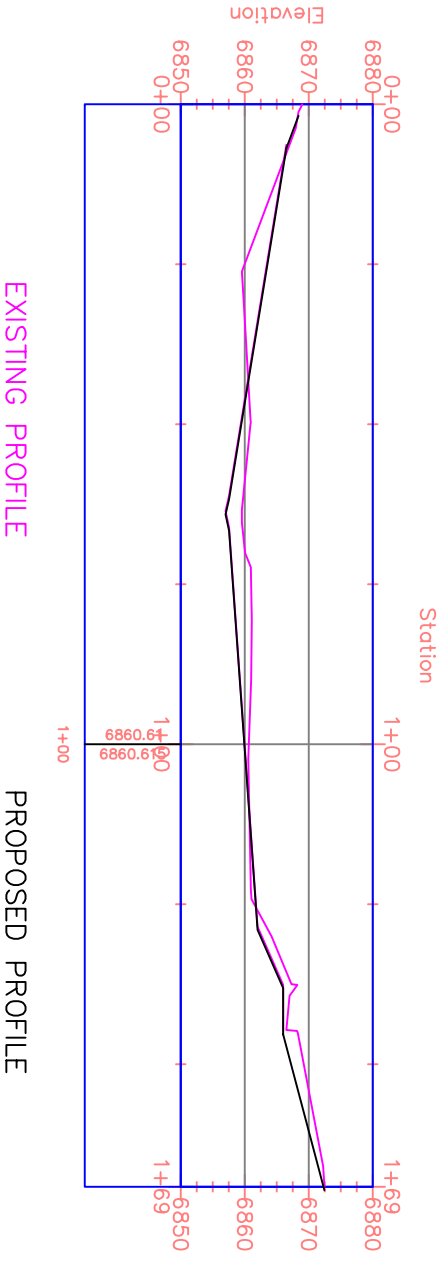
AUTHOR: S. SEYMOUR

DATE: 04/26/21

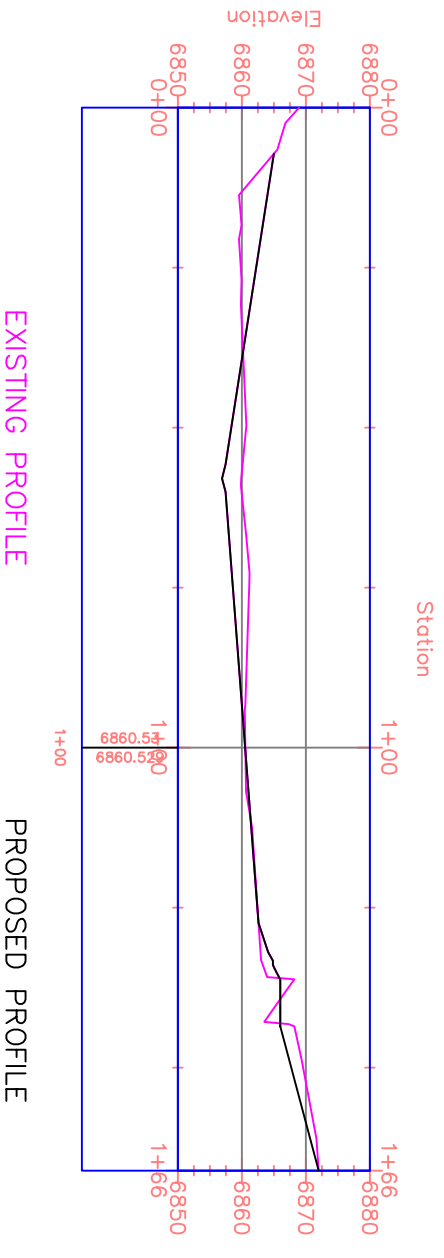




STA 14+29 PROFILE



STA 14+04 PROFILE



CLIENT: MARK LAMER
 PROJECT: WASH RESTORATION
 AUTHOR: S. SEYMOUR
 DATE: 04/26/21

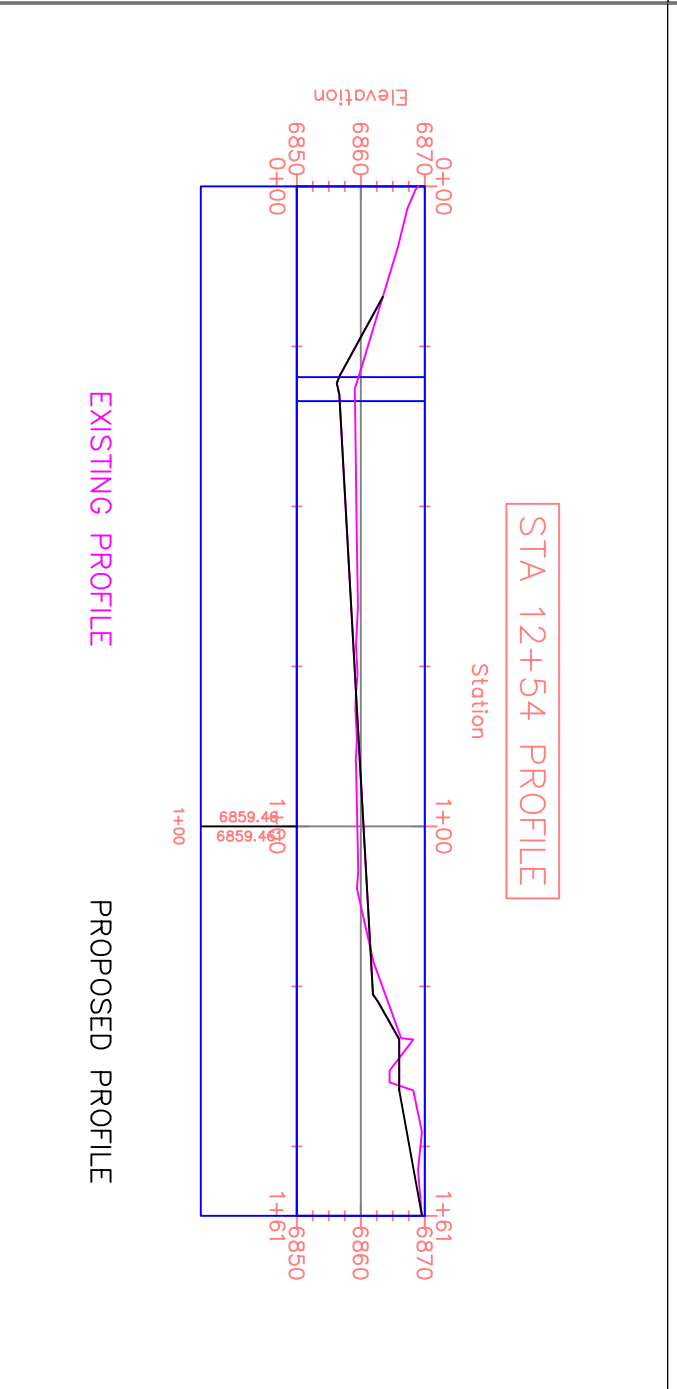
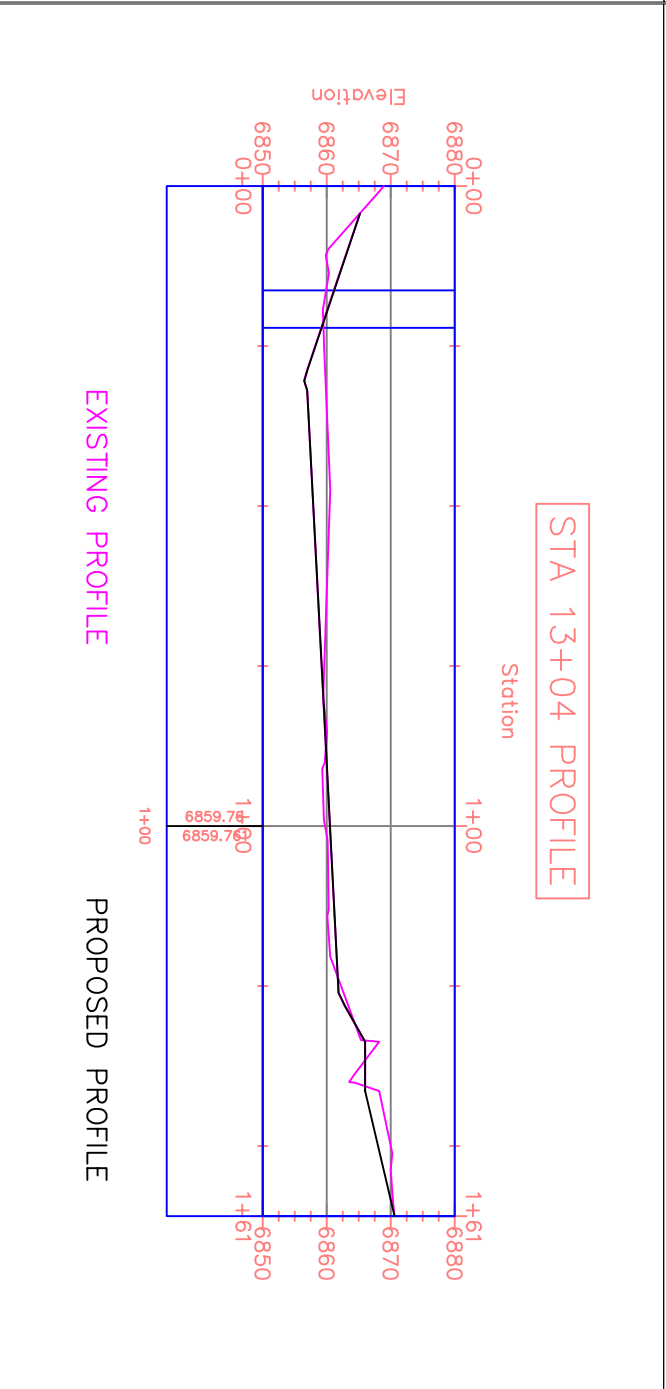
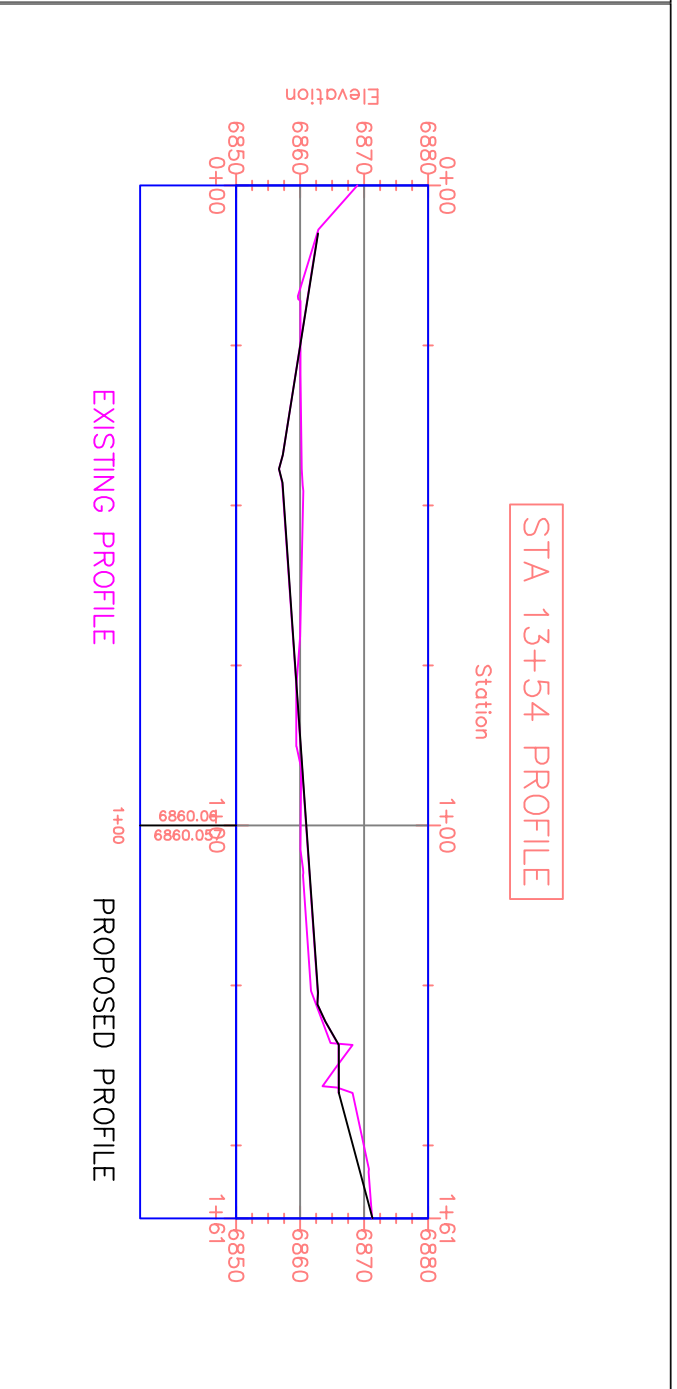
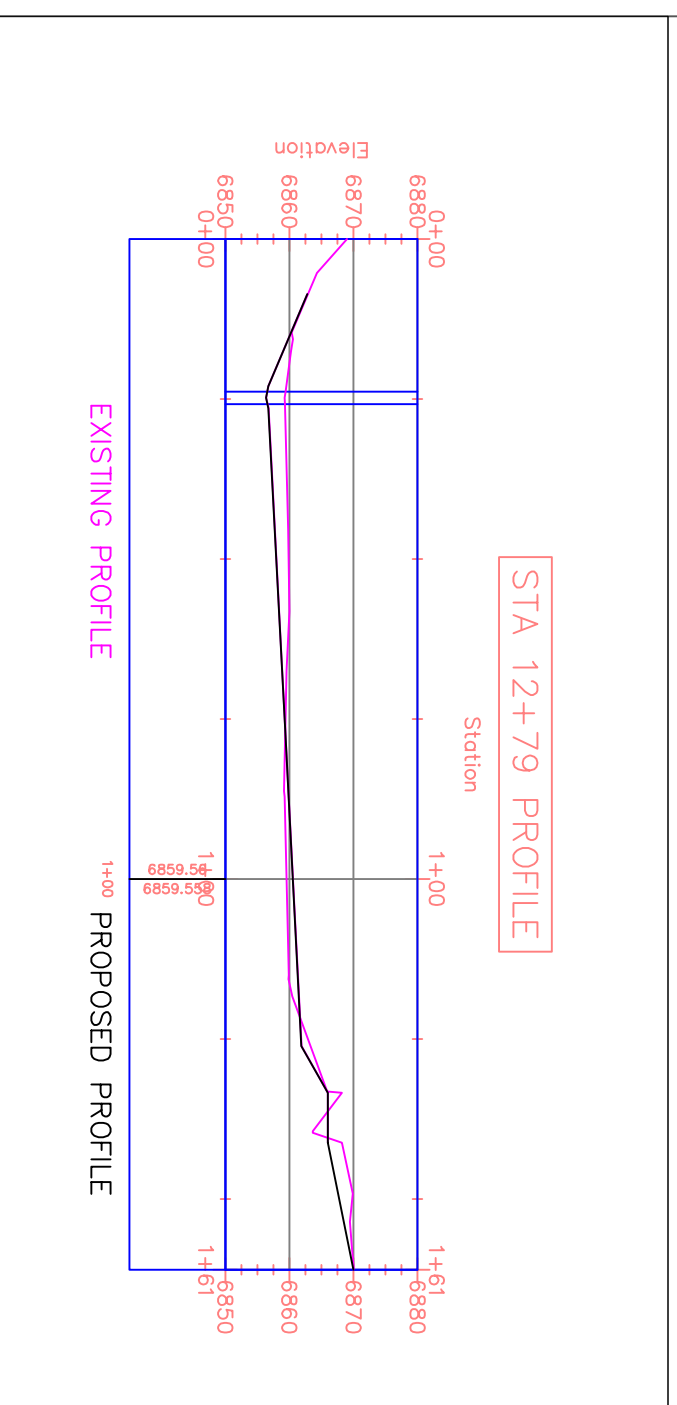
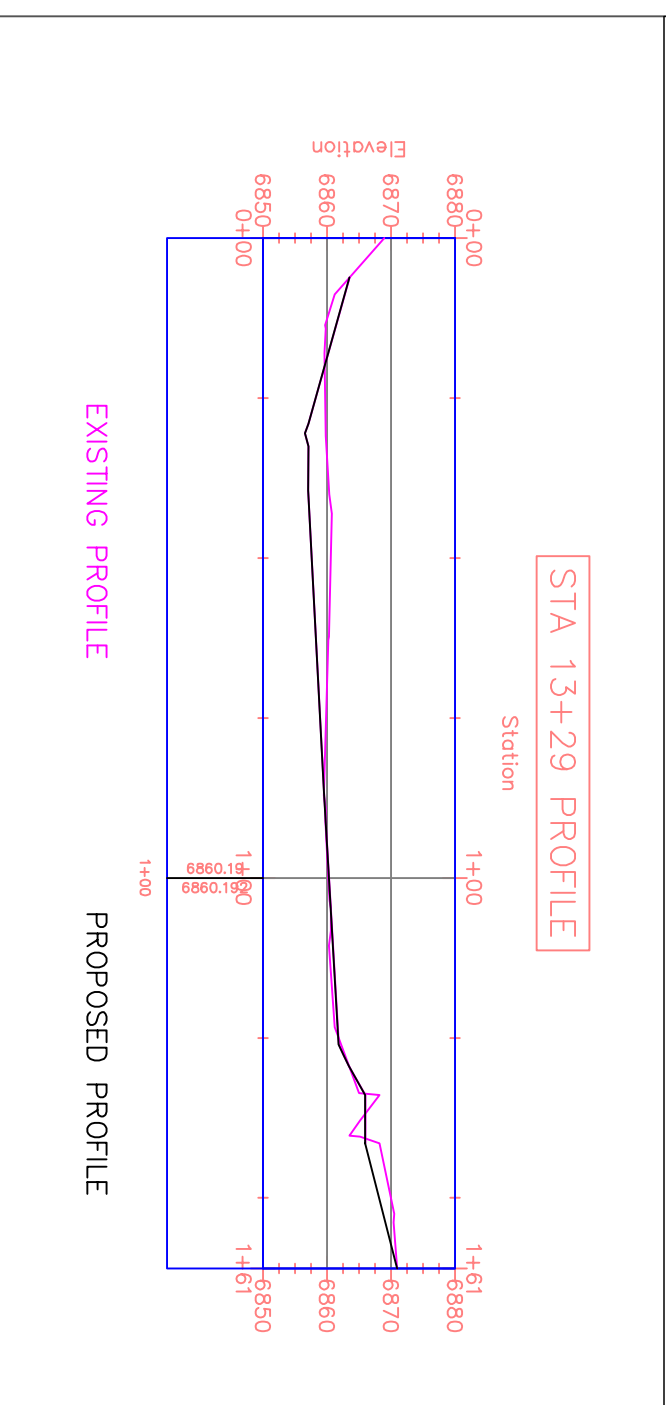
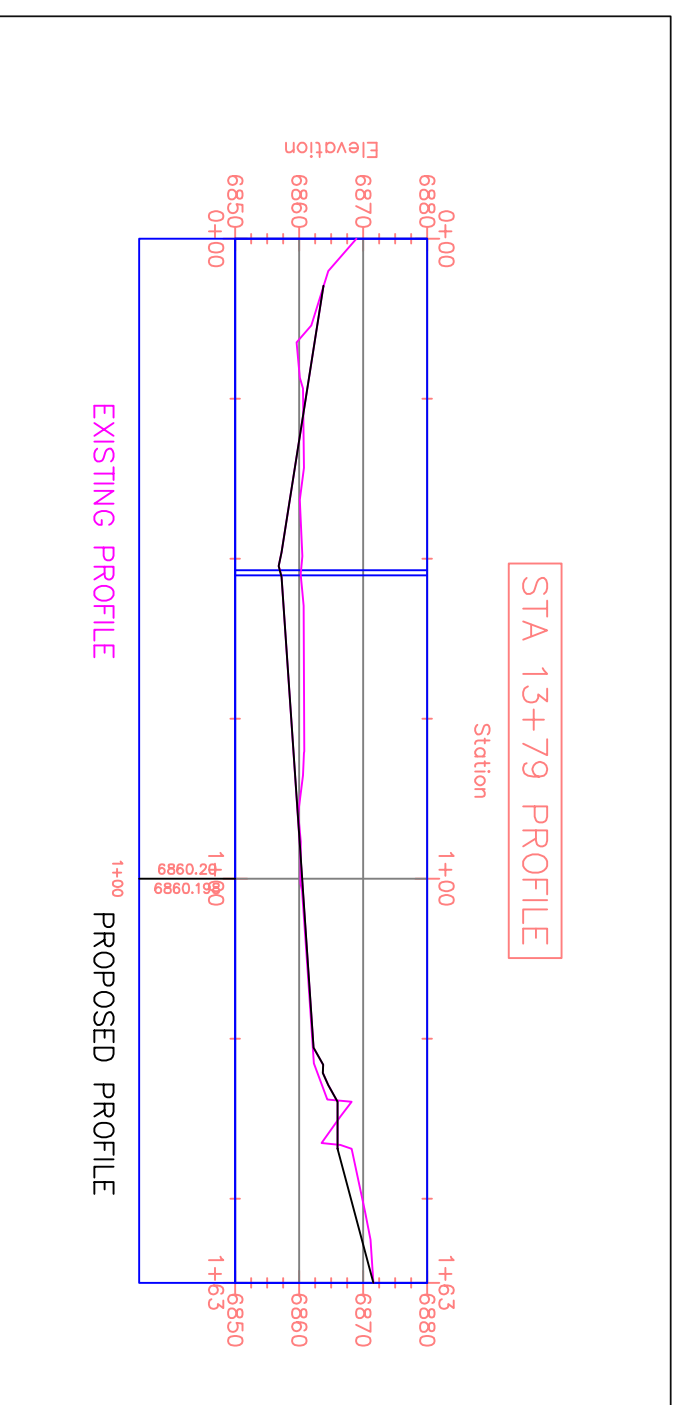
REVISIONS		
SS	3/25	ADDED ANNOTATIONS
SS	4/26	FINALISED SCALES

SCALE: 1" = 15'

SHEET
 3
 OF 9

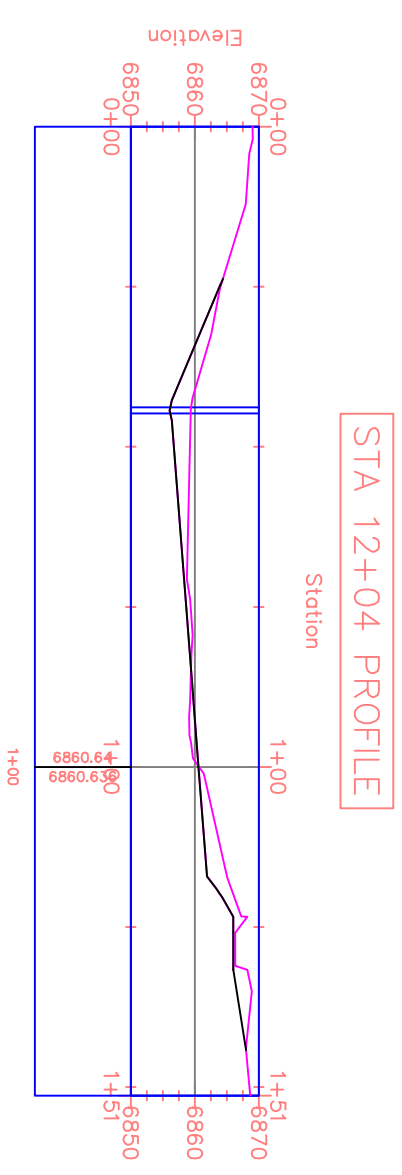
REVISIONS		
SS	3/25	ADDED ANNOTATIONS
SS	4/26	FINALISED SCALES

CLIENT: MARK LAMER
 PROJECT: WASH RESTORATION
 AUTHOR: S. SEYMOUR
 DATE: 04/26/21

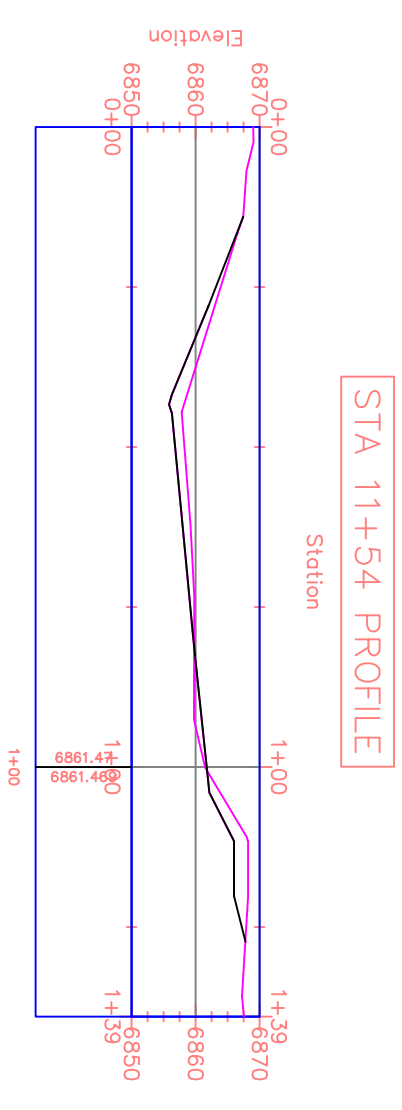


REVISIONS		
SS	3/25	ADDED ANNOTATIONS
SS	4/26	FINALISED SCALE

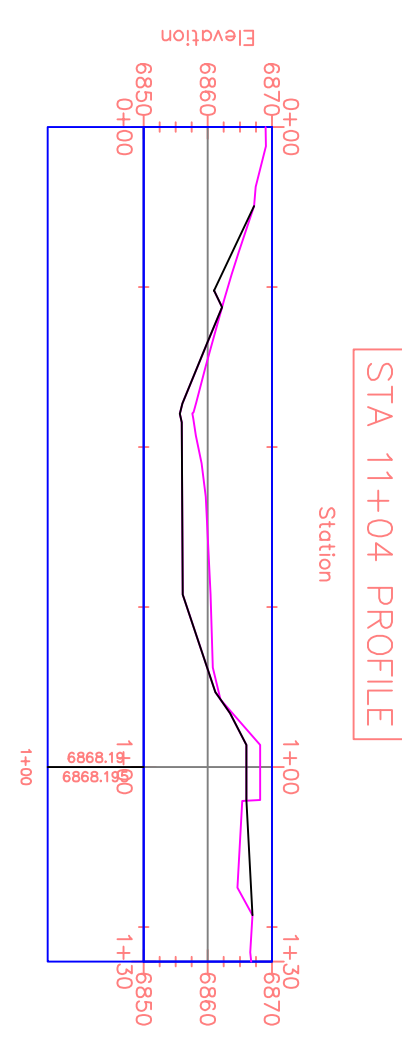
CLIENT: MARK LAMER
PROJECT: WASH RESTORATION
AUTHOR: S. SEYMOUR
DATE: 02/09/21



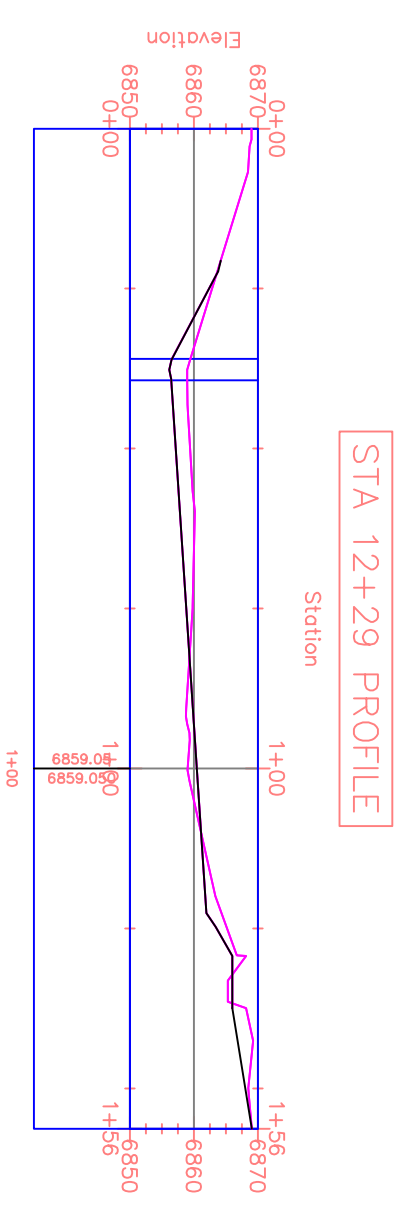
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PROPOSED PROFILE



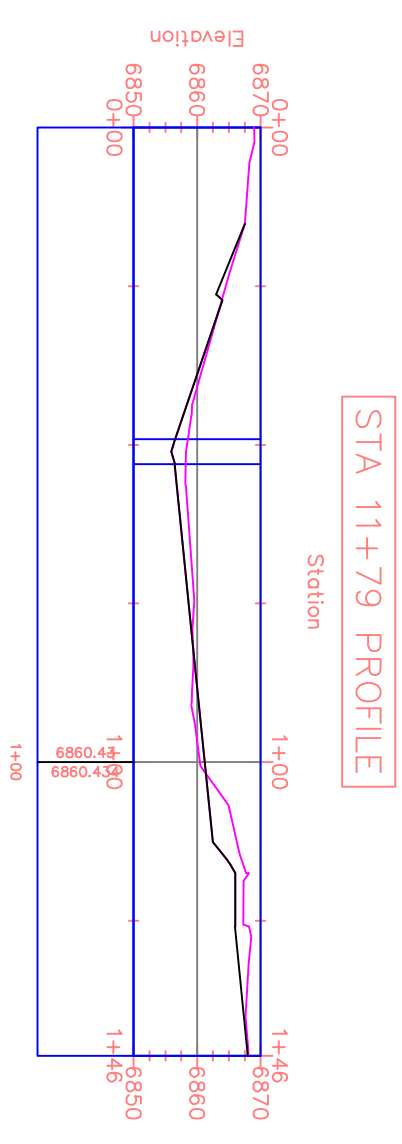
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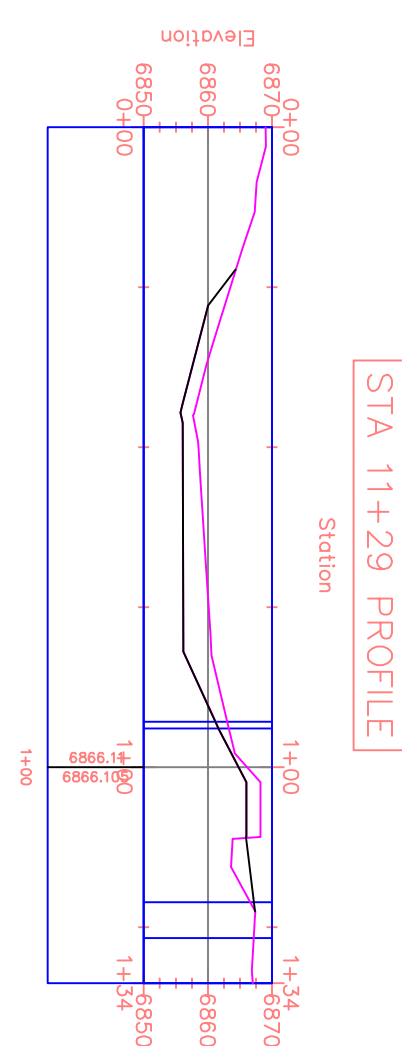
EXISTING PROFILE
PROPOSED PROFILE



EXISTING PROFILE
PROPOSED PROFILE

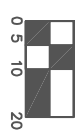


EXISTING PROFILE
PROPOSED PROFILE



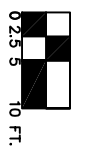
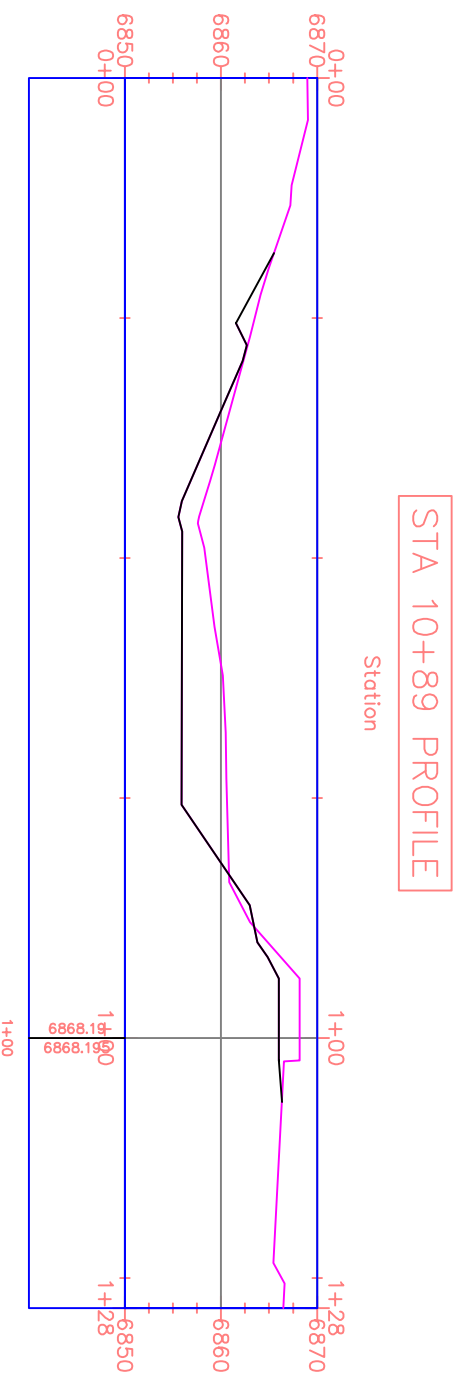
EXISTING PROFILE
PROPOSED PROFILE

SCALE: VARIES

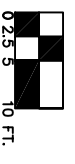
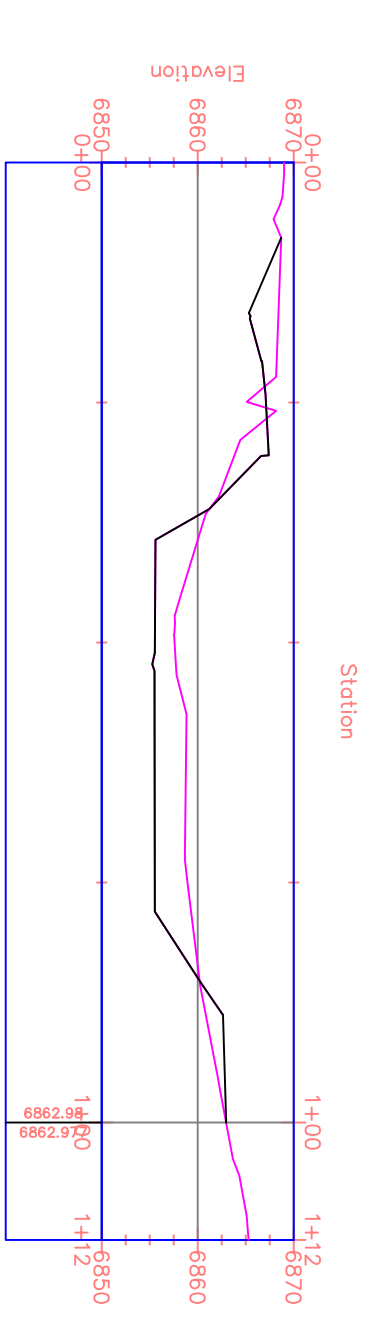


REVISIONS		
SS	3/25	ADDED ANNOTATIONS
SS	4/26	FINALISED SCALE

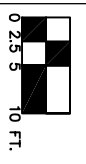
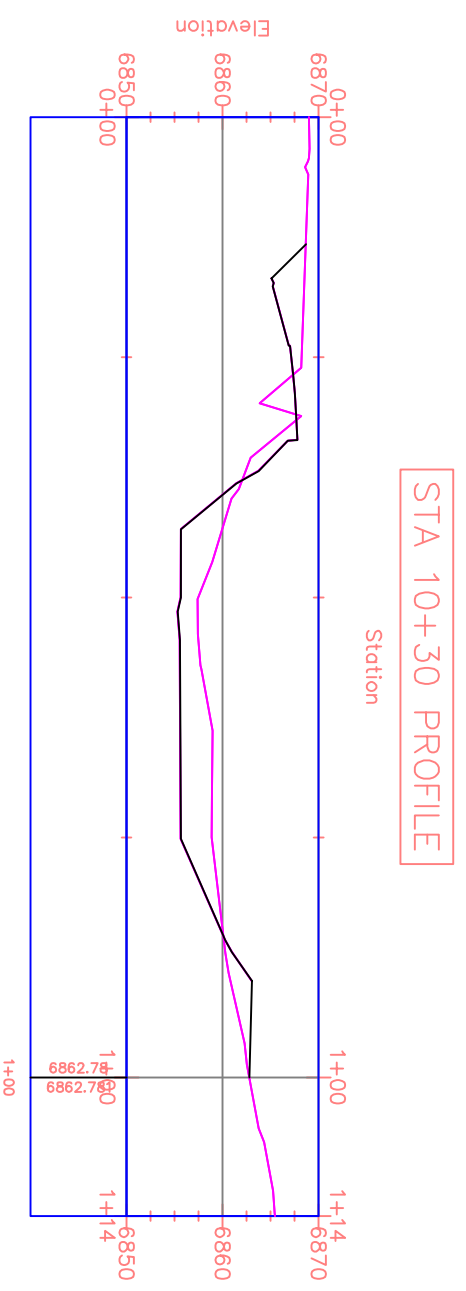
CLIENT: MARK LAMER
 PROJECT: WASH RESTORATION
 AUTHOR: S. SEYMOUR
 DATE: 04/26/21



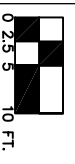
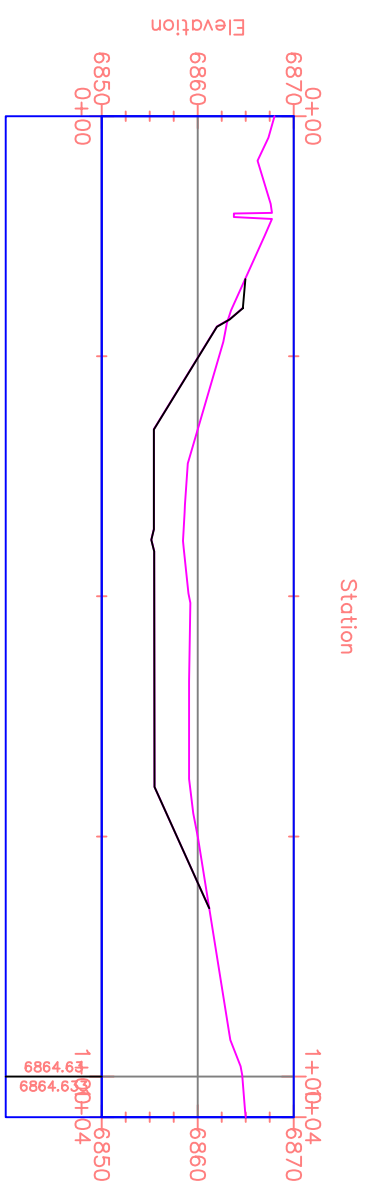
0 2.5 5 10 FT.



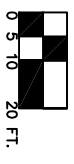
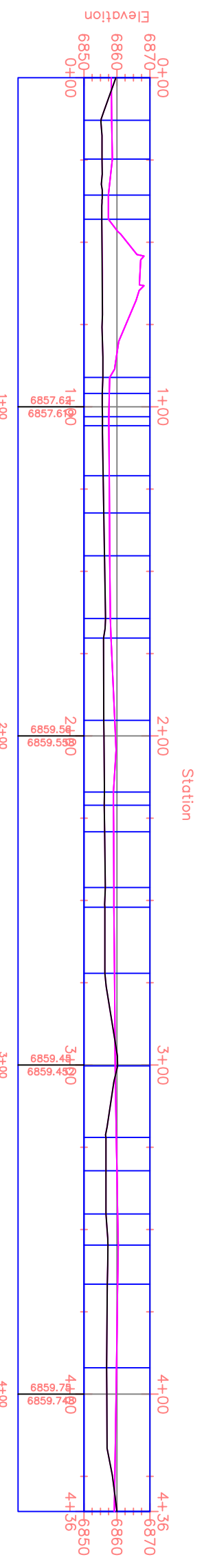
0 2.5 5 10 FT.



0 2.5 5 10 FT.



0 2.5 5 10 FT.



0 5 10 20 FT.

EXISTING PROFILE

PROPOSED PROFILE

EXISTING PROFILE

PROPOSED PROFILE

EXISTING PROFILE

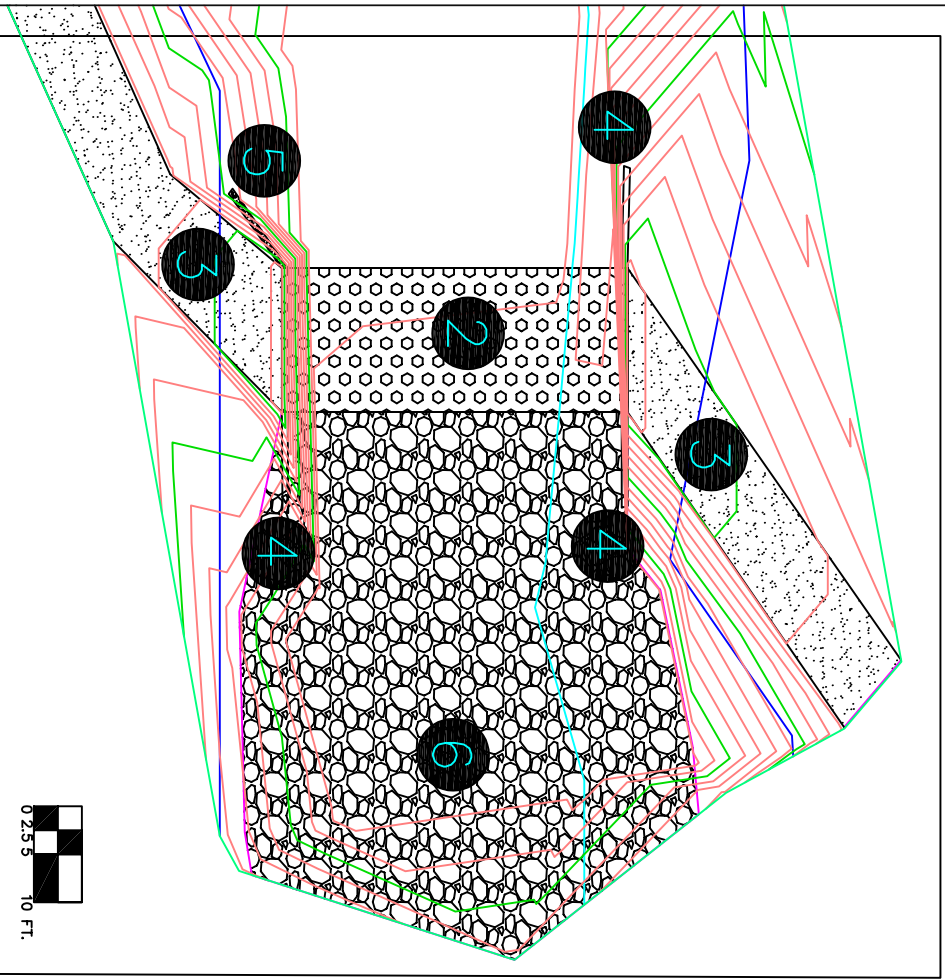
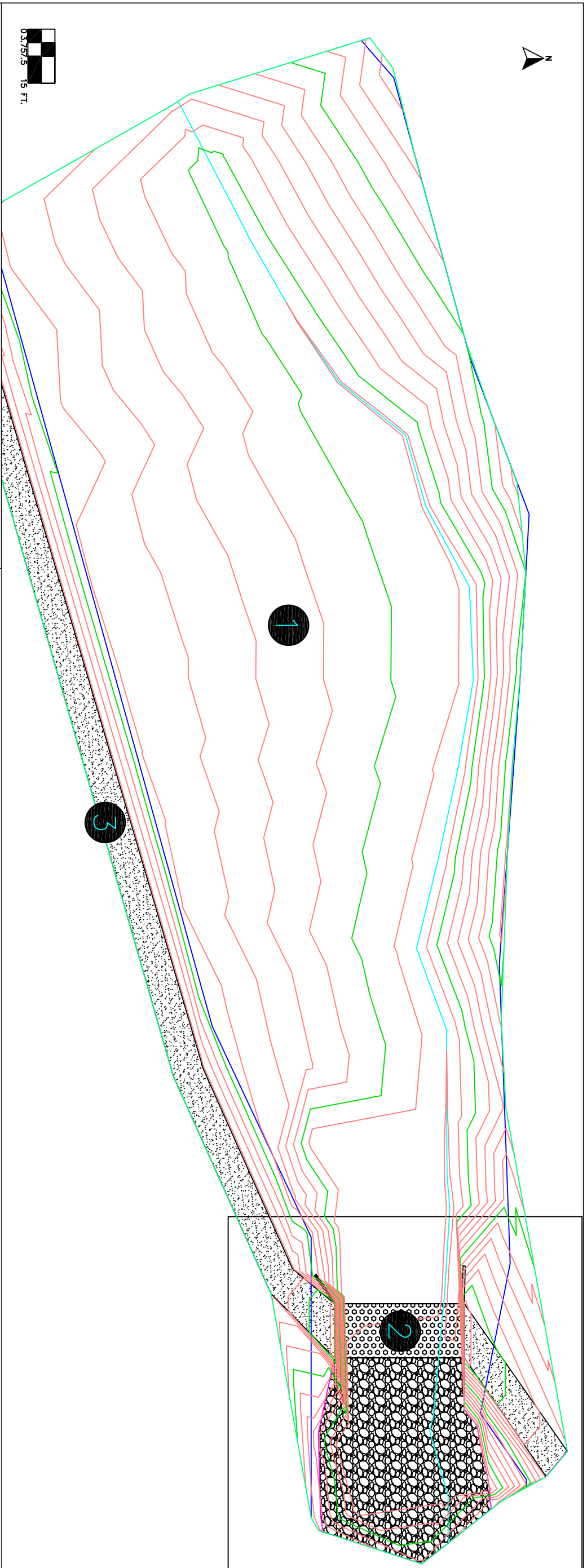
PROPOSED PROFILE

EXISTING PROFILE

PROPOSED PROFILE

EXISTING PROFILE

PROPOSED PROFILE



- 1 Any low points, besides the thalweg, in the channel bed upstream will need to be filled. Ensure dirt is compacted to specified level to reduce erosion.
- 2 Implement 3 barrel 3-Sided Culvert with safety railings and a 6" $\frac{3}{4}$ in. pea gravel cover. For more details see next sheet, Culvert Details.
- 3 Raise Flagstaff Urban Trial System to an elevation of 6864.4. Where trail angles to meet culvert/crossing, ensure an even slope is used. Ensure all dirt is compacted to specified level to reduce erosion.
- 4 Headwalls angled at 90 deg. from culvert opening, typ. For more details see next sheet, Culvert Details.
- 5 Angle headwall 126 deg. from culvert opening, to align with the ROB. For more details see next sheet, Culvert Details.
- 6 Install dumped rock rip rap along channel bed. Total length past culvert outlet is 104 feet. The median rip rap size is 11.5 inches.

SHEET

OF 9

7

SCALE: VARIES

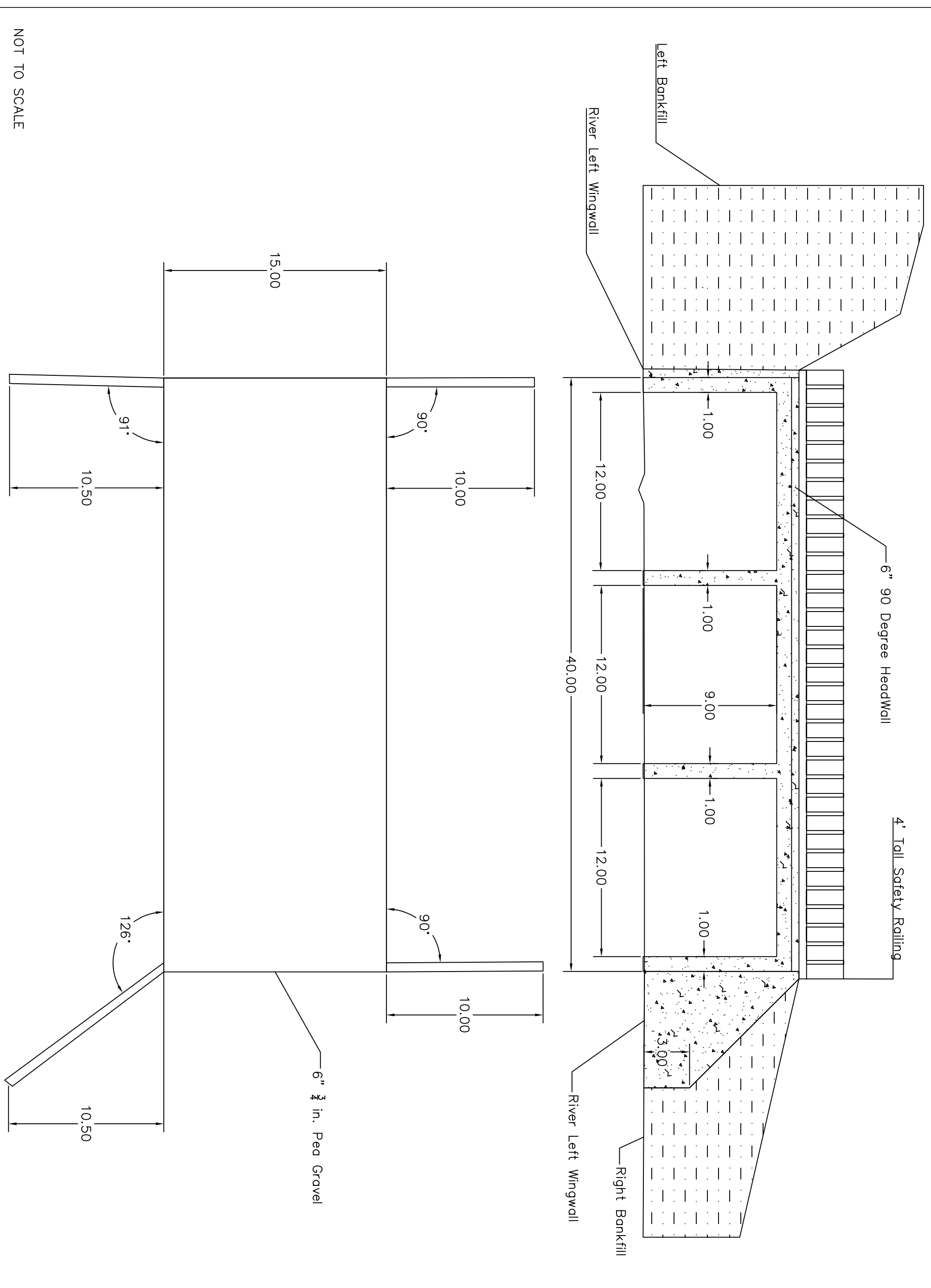


REVISIONS

NO.	DATE	DESCRIPTION

CLIENT: MARK LAMER
 PROJECT: WASH RESTORATION
 AUTHOR: S. SEYMOUR
 DATE: 02/09/21





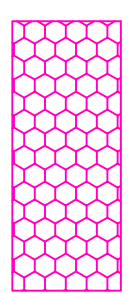
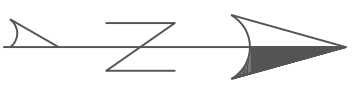
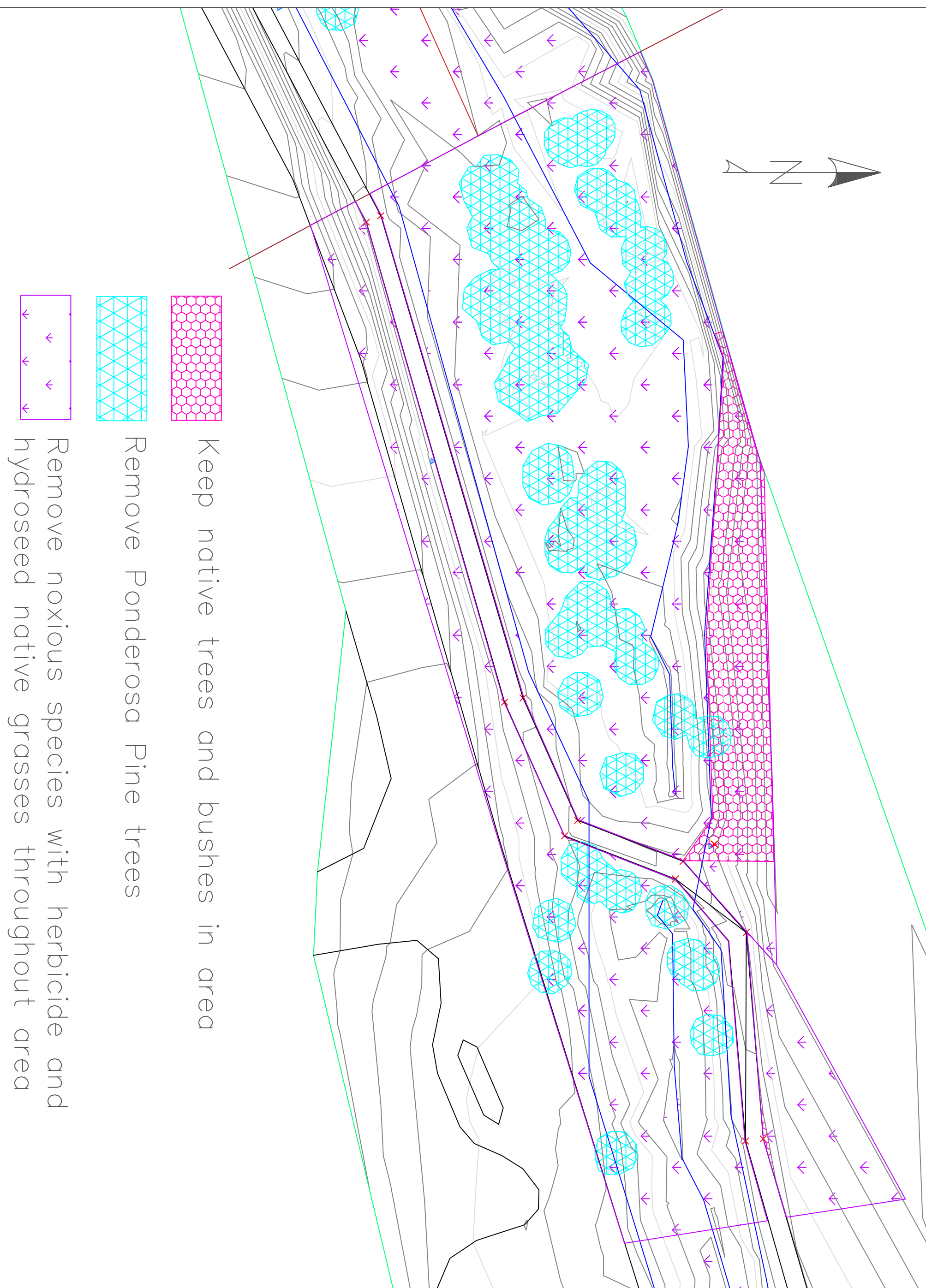
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SCALE: N/A

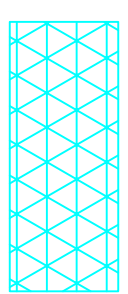
REVISIONS		
JB	4/21	ADDED ANNOTATIONS
JB	4/26	FINALISED SCALE

CLIENT: MARK LAMER
 PROJECT: WASH RESTORATION
 AUTHOR: J. BRISCHKE
 DATE: 02/09/21

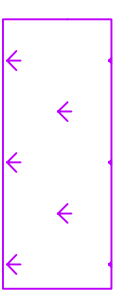




Keep native trees and bushes in area



Remove Ponderosa Pine trees



Remove noxious species with herbicide and hydrosseed native grasses throughout area



CLIENT: MARK LAMER
 PROJECT: REVEGETATION PLAN
 AUTHOR: HANNAH FISCHER
 DATE: 3/3/21

REVISIONS			
HF	3/24	ADDED TREE POLYGONS	
HF	4/02	ADJUSTED "KEEP" AREA	
HF	4/21	ADDED DETAILS	

SCALE: 1" to 20'

SHEET
 OF
 9
 9