

PAVED TRAIL REPAIR PHASE 2

Weston Bend State Park

Weston, Missouri



CLARK &
ENERSEN

OWNER:

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
NATURAL RESOURCES
STATE PARKS

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER:

Clark & Enersen

PROJECT NUMBER:

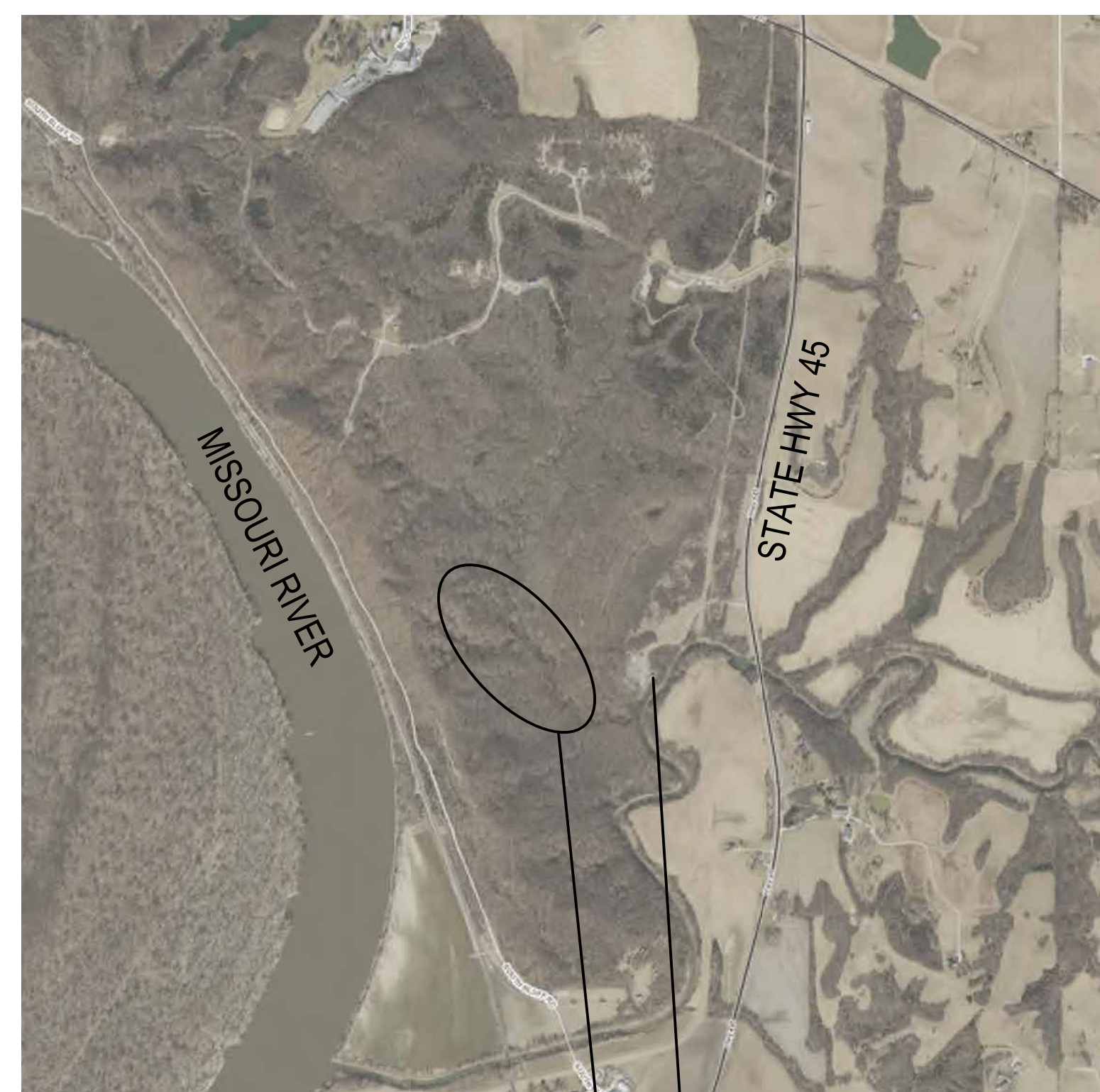
X2117-02

SITE NUMBER:

5118

ASSET NUMBER:

7815118012



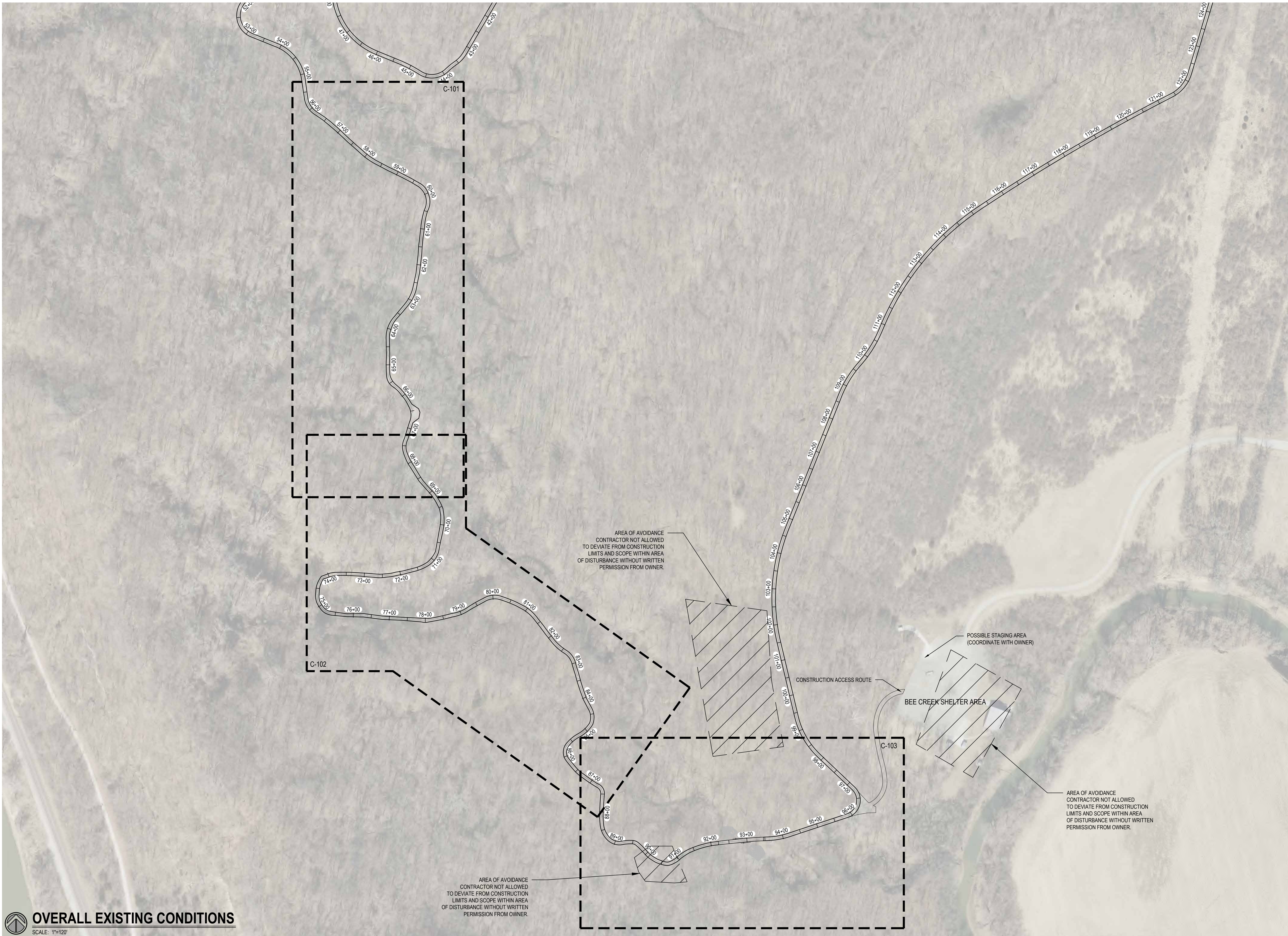
BEE CREEK SHELTER

PROJECT LOCATION

SHEET NUMBER:

G-000

07/03/2025



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PAVED TRAIL REPAIR
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WESTON BEND STATE PARK
16600 HIGHWAY 45 NORTH
WESTON, MO 64098

PROJECT # X2117-02
SITE # 5118
ASSET # 7815118012

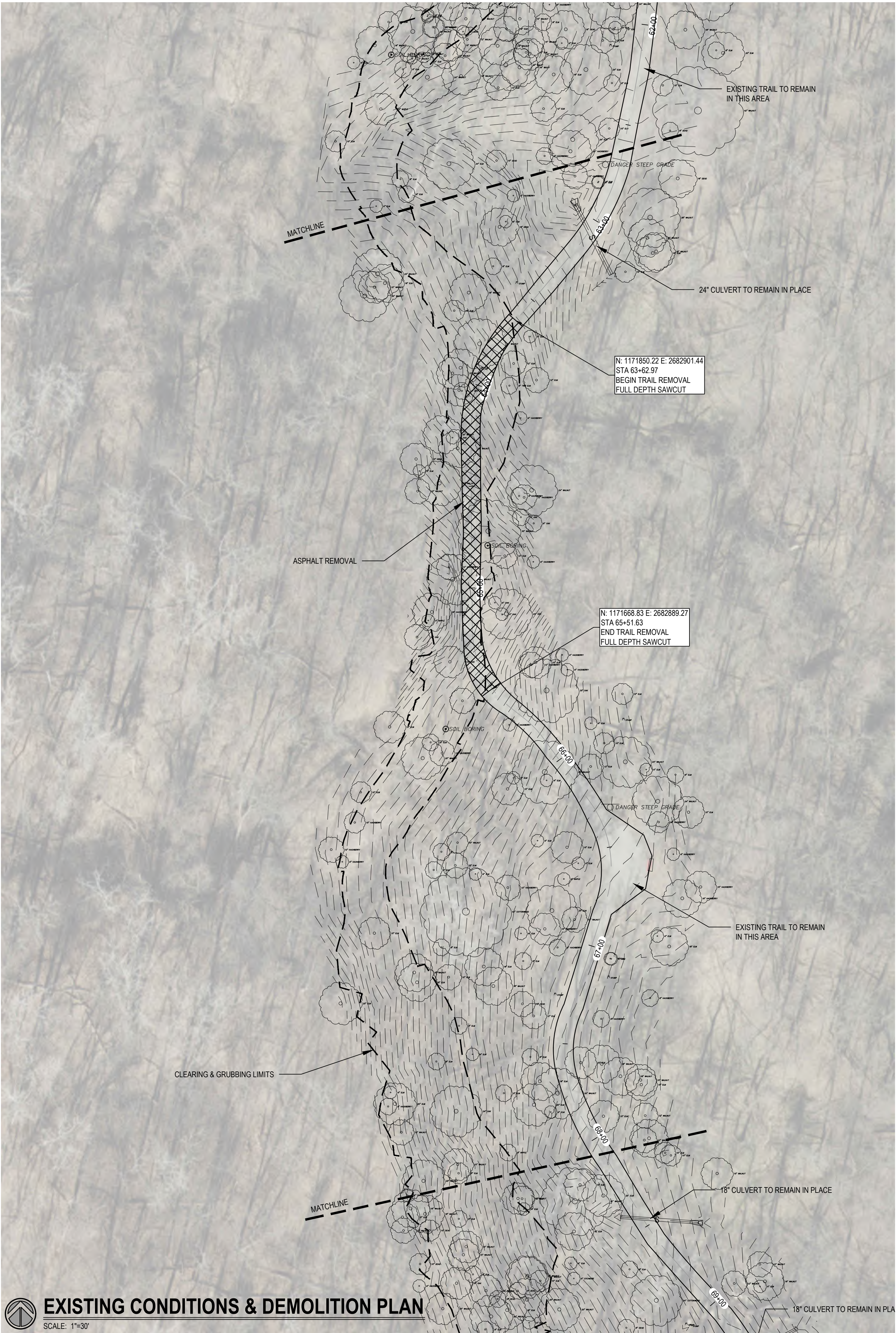
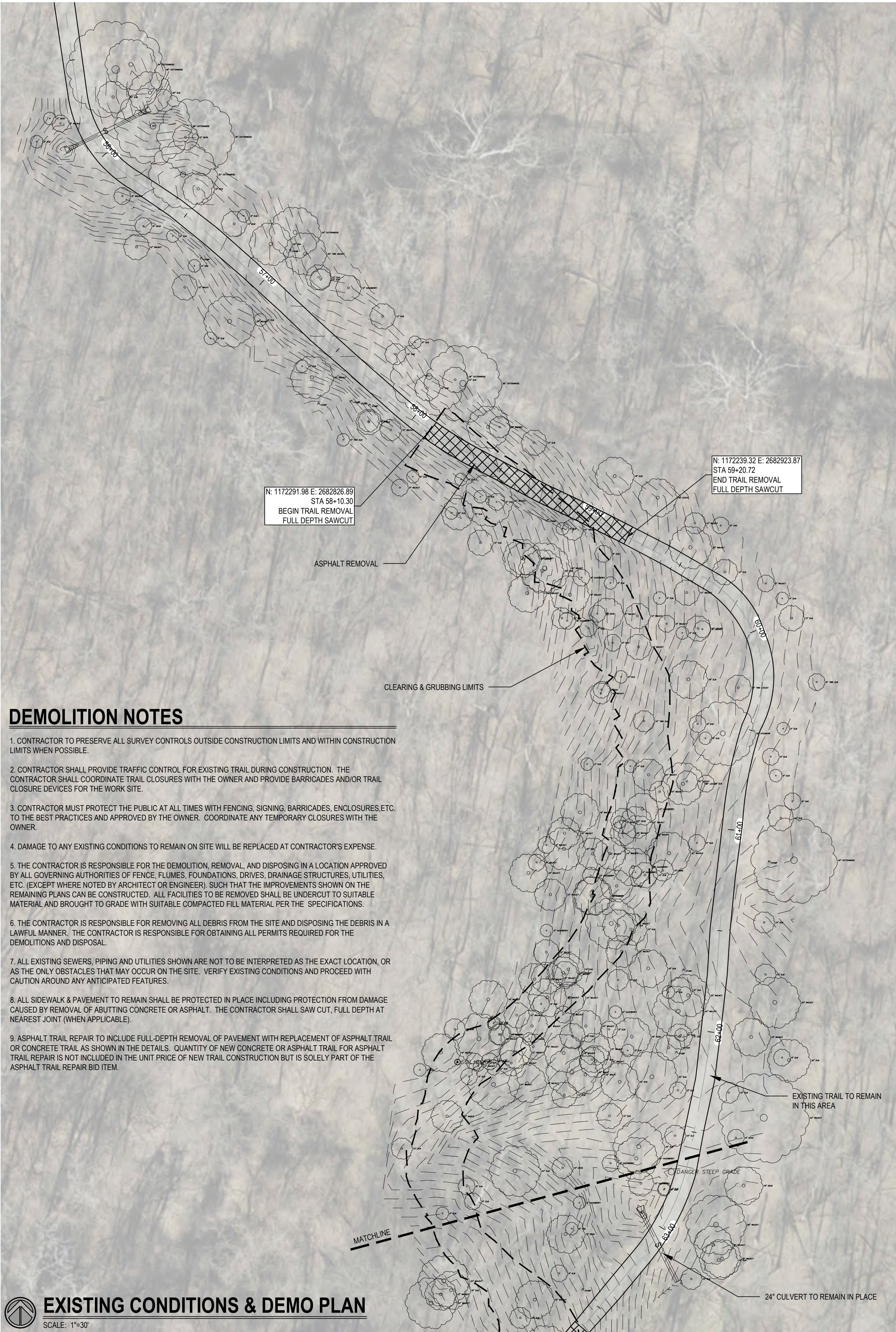
REVISION: _____
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DATE: _____
ISSUE DATE: 09/26/2025

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CHECKED BY: _____
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SHEET TITLE:
Overall Existing Conditions

SHEET NUMBER:
C-100

CONSTRUCTION DOCUMENTS
09/26/2025



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**WESTON BEND STATE PARK
16600 HIGHWAY 45 NORTH
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**PROJECT # X2117-02
SITE # 5118
ASSET # 7815118012**

**REVISION: _____
DATE: _____
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DATE: _____
ISSUE DATE: 09/26/2025**

**DRAWN BY: _____
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DESIGNED BY: _____**

**SHEET TITLE:
Existing Conditions &
Demolition Plan**

**SHEET NUMBER:
C-101
CONSTRUCTION DOCUMENTS
09/26/2025**

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16600 HIGHWAY 45 NORTH
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CONSTRUCTION DOCUMENTS
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DEMOLITION NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROLS OUTSIDE CONSTRUCTION LIMITS AND WITHIN CONSTRUCTION LIMITS WHEN POSSIBLE.
2. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL FOR EXISTING TRAIL DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE TRAIL CLOSURES WITH THE OWNER AND PROVIDE BARRICADES AND/OR TRAIL CLOSURE DEVICES FOR THE WORK SITE.
3. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, SIGNING, BARRICADES, ENCLOSURES,ETC. TO THE BEST PRACTICES AND APPROVED BY THE OWNER. COORDINATE ANY TEMPORARY CLOSURES WITH THE OWNER.
4. DAMAGE TO ANY EXISTING CONDITIONS TO REMAIN ON SITE WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF FENCE, FLUMES, FOUNDATIONS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. (EXCEPT WHERE NOTED BY ARCHITECT OR ENGINEER), SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITIONS AND DISPOSAL.
7. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
8. ALL SIDEWALK & PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING CONCRETE OR ASPHALT. THE CONTRACTOR SHALL SAW CUT, FULL DEPTH AT NEAREST JOINT (WHEN APPLICABLE).
9. ASPHALT TRAIL REPAIR TO INCLUDE FULL-DEPTH REMOVAL OF PAVEMENT WITH REPLACEMENT OF ASPHALT TRAIL OR CONCRETE TRAIL AS SHOWN IN THE DETAILS. QUANTITY OF NEW CONCRETE OR ASPHALT TRAIL FOR ASPHALT TRAIL REPAIR IS NOT INCLUDED IN THE UNIT PRICE OF NEW TRAIL CONSTRUCTION BUT IS SOLELY PART OF THE ASPHALT TRAIL REPAIR BID ITEM.



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Existing Conditions &
Demolition Plan

SHEET NUMBER:
C-103
CONSTRUCTION DOCUMENTS
09/26/2025



 **OVERALL SITE PLAN**
SCALE: 1"=120'

PAVING NOTES

1. FOR DETAILS OF PAVEMENT CONSTRUCTION, SEE SHEET C-601.
2. FOR SPECIFICATIONS THAT ARE NOT INCLUDED IN THE BIDDING DOCUMENTS, THE CURRENT STANDARD SPECIFICATIONS FOR MODOT SHALL APPLY.
3. FOR DETAILS OF SUBGRADE PREPARATION, SEE MODOT STANDARD SPECIFICATIONS DIVISION 200 SECTION 209.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE EXISTING PAVEMENT.
5. THE CONTRACTOR SHALL COORDINATE ALL PAVEMENT TESTING.
6. CONTRACTOR SHALL COMPLETE ALL NECESSARY PERMITS AND INSPECTIONS PRIOR TO CONSTRUCTION.
7. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL COORDINATE POINTS ARE CENTERLINE OF TRAIL UNLESS SPECIFIED OTHERWISE.
9. ALL SHOULDERS SHALL BE BACKFILLED WITH TOPSOIL MATCHING THE EDGE OF PAVEMENT.
10. MAINTAIN 1.5% CROSS SLOPE ON TRAILS AND SIDEWALKS UNLESS OTHERWISE NOTED.

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SHEET TITLE:
Overall Site Plan

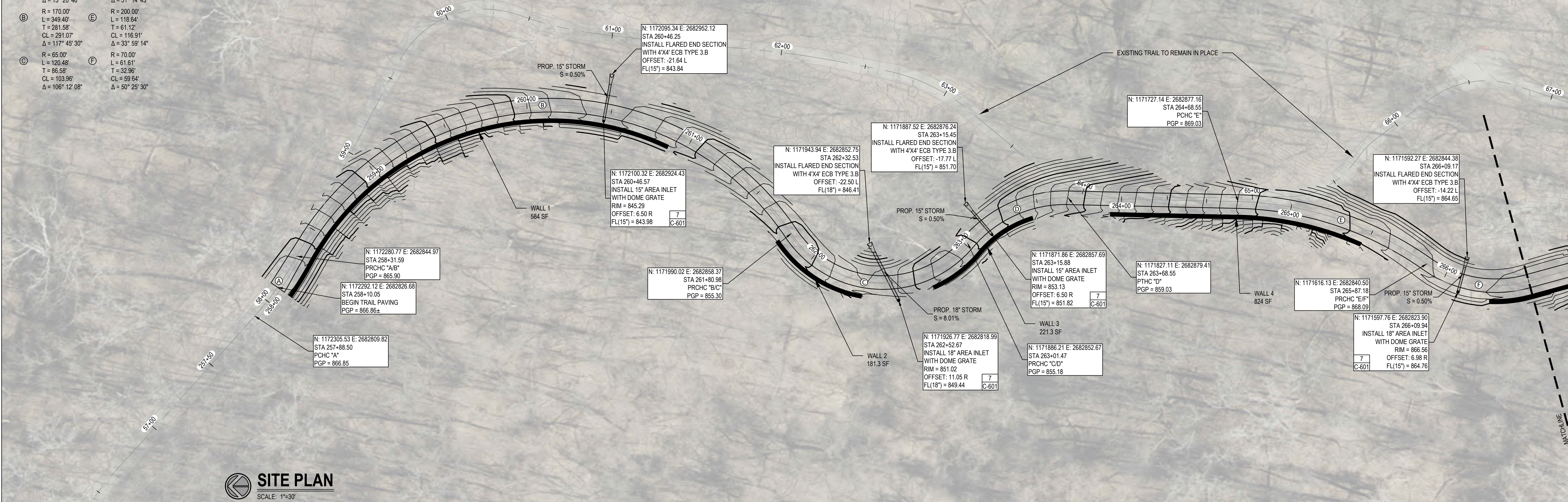
SHEET NUMBER:

C-200

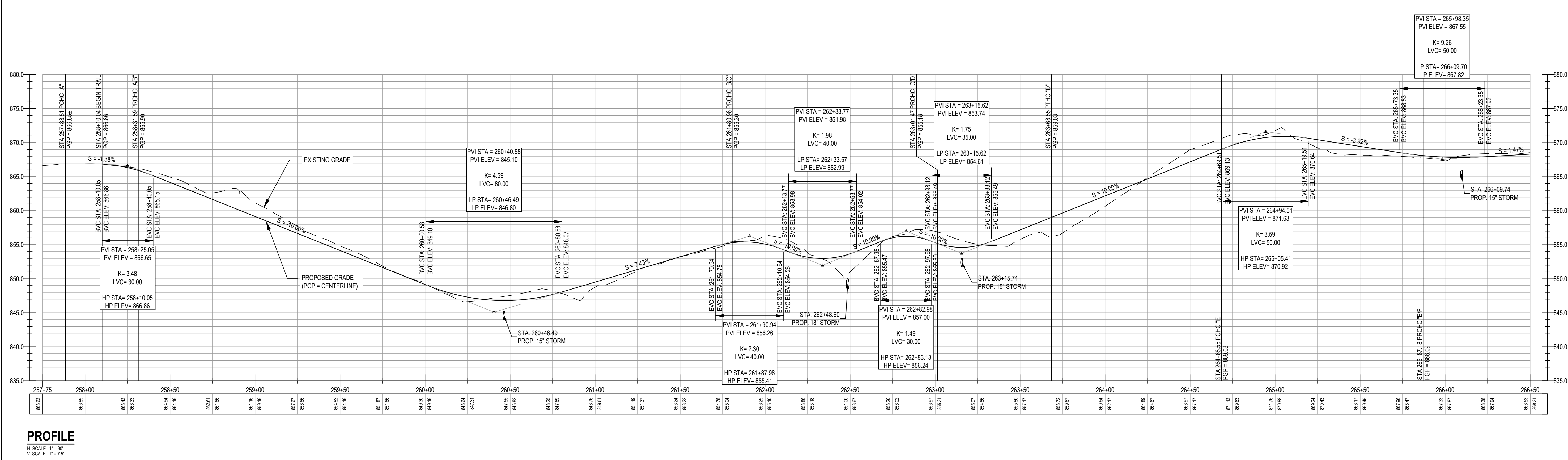
CONSTRUCTION DOCUMENTS
09/26/2025

CURVE DATA

Ⓐ	R = 185.00' L = 43.09' T = 21.84' CL = 43.00' Δ = 13° 20' 46"	Ⓓ	R = 75.00' L = 67.08' T = 35.97' CL = 64.87' Δ = 51° 14' 43"
Ⓑ	R = 170.00' L = 349.40' T = 281.58' CL = 291.07' Δ = 117° 45' 30"	Ⓔ	R = 200.00' L = 118.64' T = 61.12' CL = 116.91' Δ = 33° 59' 14"
Ⓒ	R = 65.00' L = 120.48' T = 86.59' CL = 103.36' Δ = 106° 12' 08"	Ⓕ	R = 70.00' L = 61.61' T = 32.96' CL = 59.64' Δ = 50° 29' 30"



SITE PLAN
SCALE: 1"=30'



PROFILE
H SCALE: 1"=30'
V SCALE: 1"=7.5'

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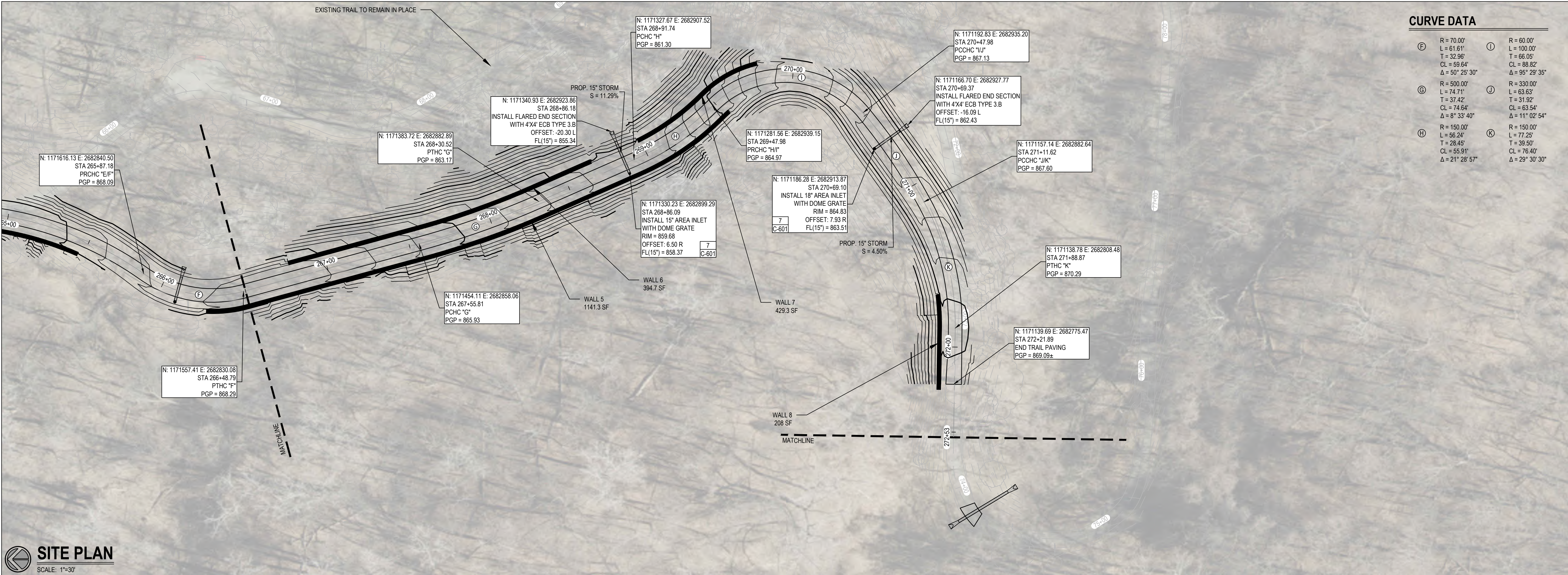
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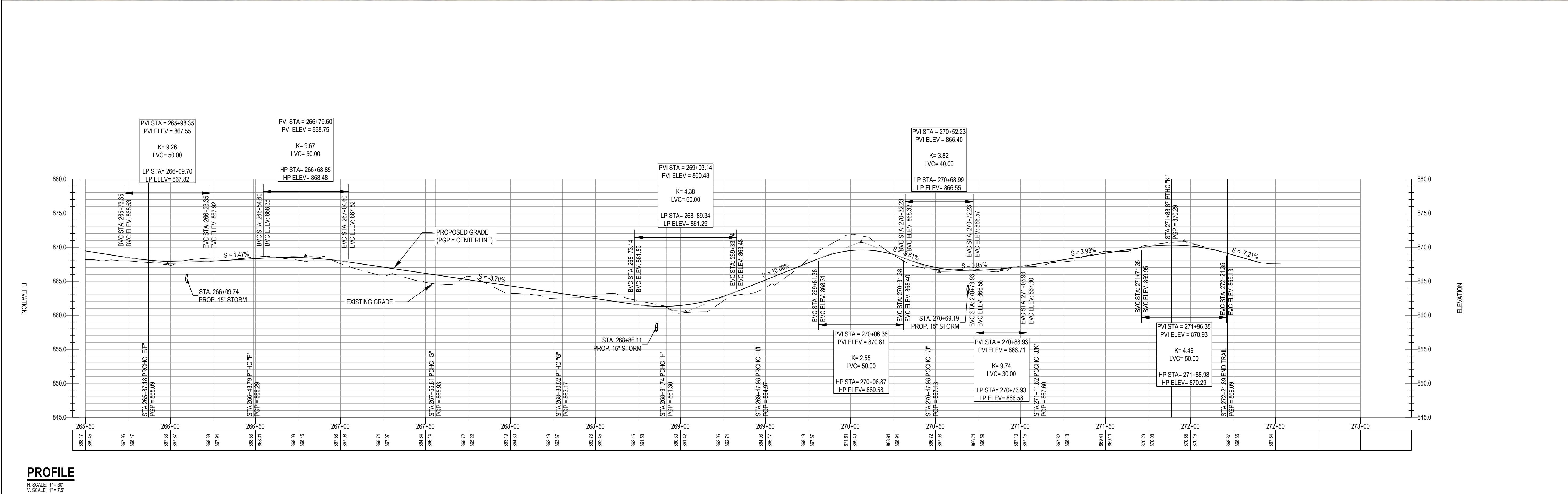
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DESIGNED BY: _____

SHEET TITLE:
Area 6 Plan & Profile

SHEET NUMBER:
C-201
CONSTRUCTION DOCUMENTS
09/26/2025



SITE PLAN
SCALE: 1"=30'



PROFILE
H SCALE: 1"=30'
V SCALE: 1"=7.5'

CURVE DATA

Ⓕ	R = 70.00' L = 61.61' T = 32.96' CL = 59.64' Δ = 50° 25' 30"	Ⓖ	R = 60.00' L = 100.00' T = 66.05' CL = 88.82' Δ = 95° 29' 35"
Ⓖ	R = 500.00' L = 74.71' T = 37.42' CL = 74.64' Δ = 8° 33' 40"	Ⓖ	R = 330.00' L = 63.63' T = 31.92' CL = 63.54' Δ = 11° 02' 54"
Ⓕ	R = 150.00' L = 56.24' T = 28.48' CL = 55.91' Δ = 21° 28' 57"	Ⓖ	R = 150.00' L = 77.25' T = 39.50' CL = 76.40' Δ = 29° 30' 30"

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SHEET TITLE:
Area 6 Plan & Profile

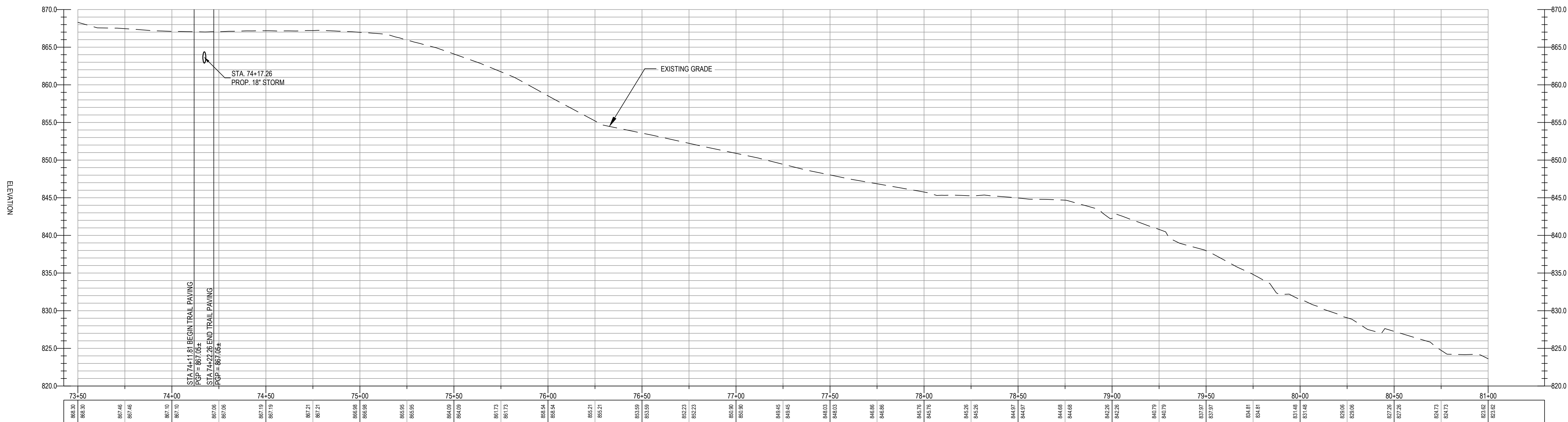
SHEET NUMBER:

C-202

CONSTRUCTION DOCUMENTS
09/26/2025



SITE PLAN
SCALE: 1"=30'



PROFILE
H. SCALE: 1"=30'
V. SCALE: 1"=7.5'

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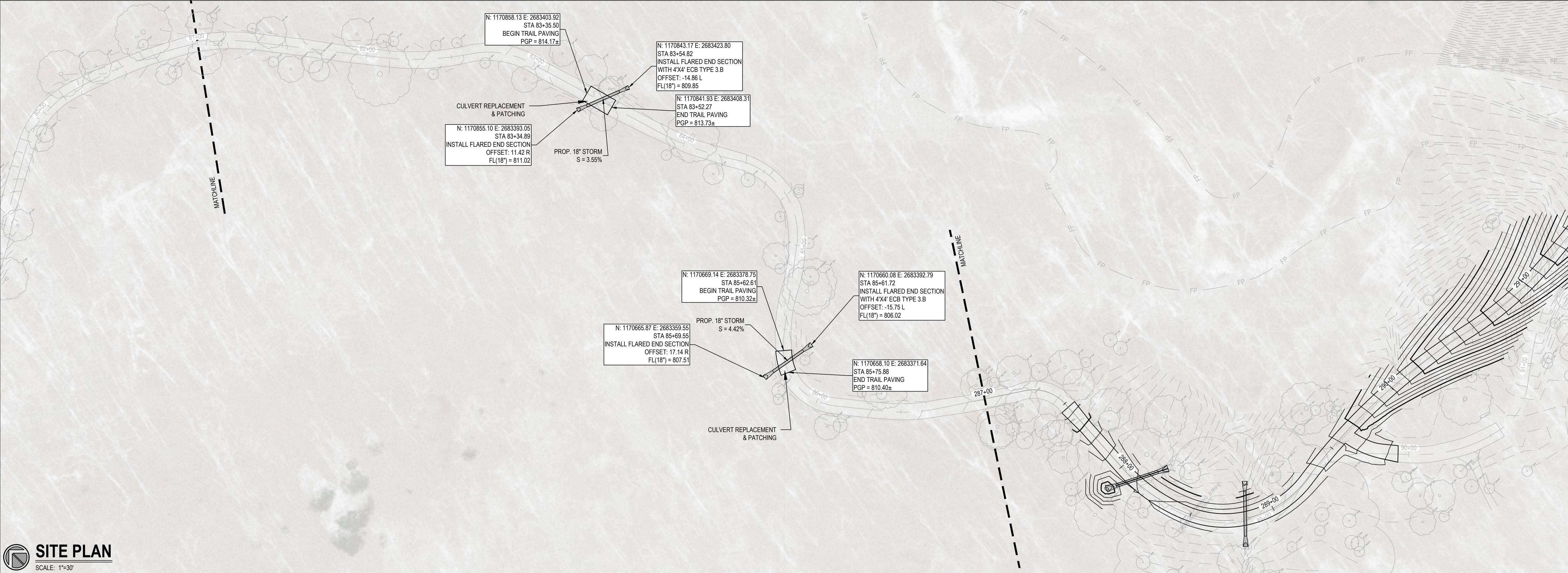
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SITE # 5118
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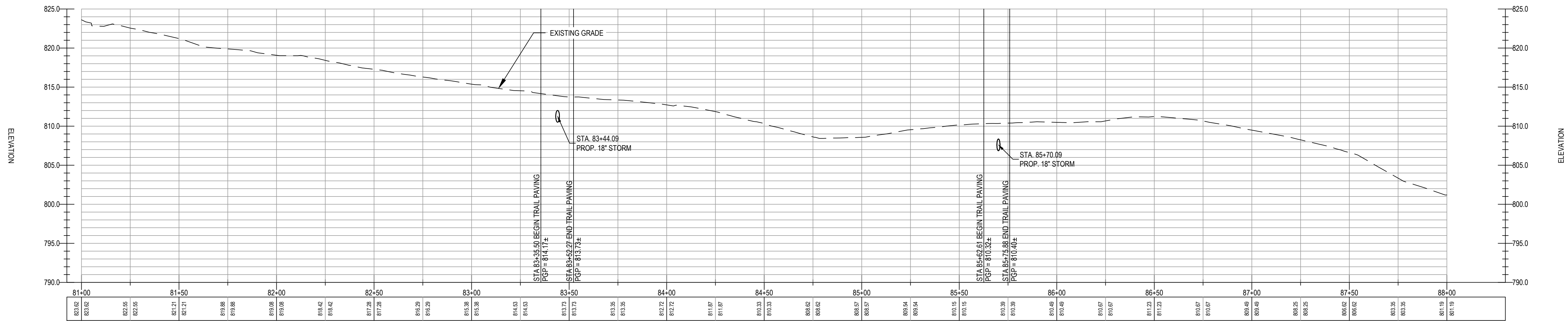
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SHEET TITLE:
Area 5A Plan & Profile

SHEET NUMBER:
C-203
CONSTRUCTION DOCUMENTS
09/26/2025



SITE PLAN
SCALE: 1"=30'



PROFILE
H SCALE: 1"=30'
V SCALE: 1"=7.5'

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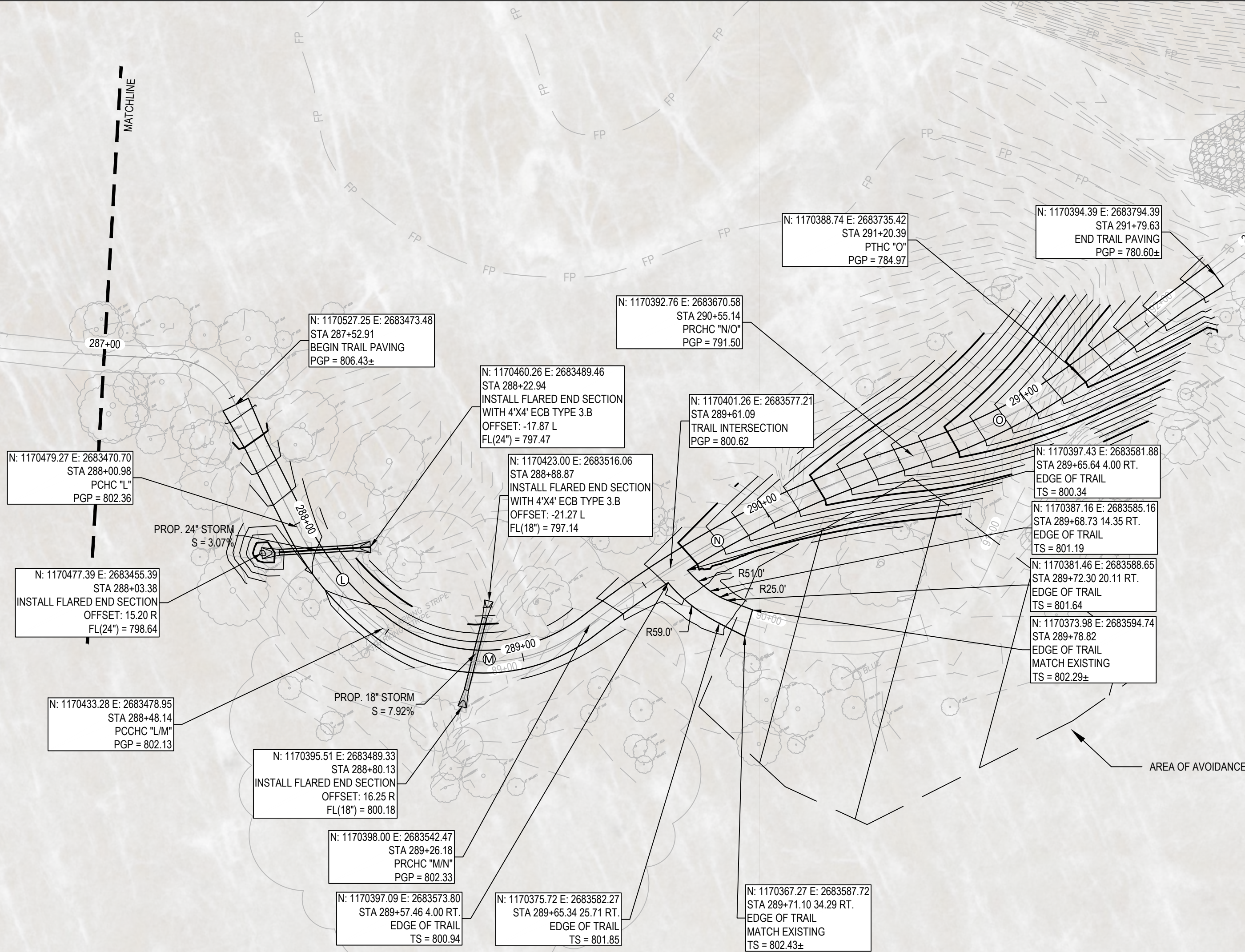
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Area 5A Plan & Profile

SHEET NUMBER:

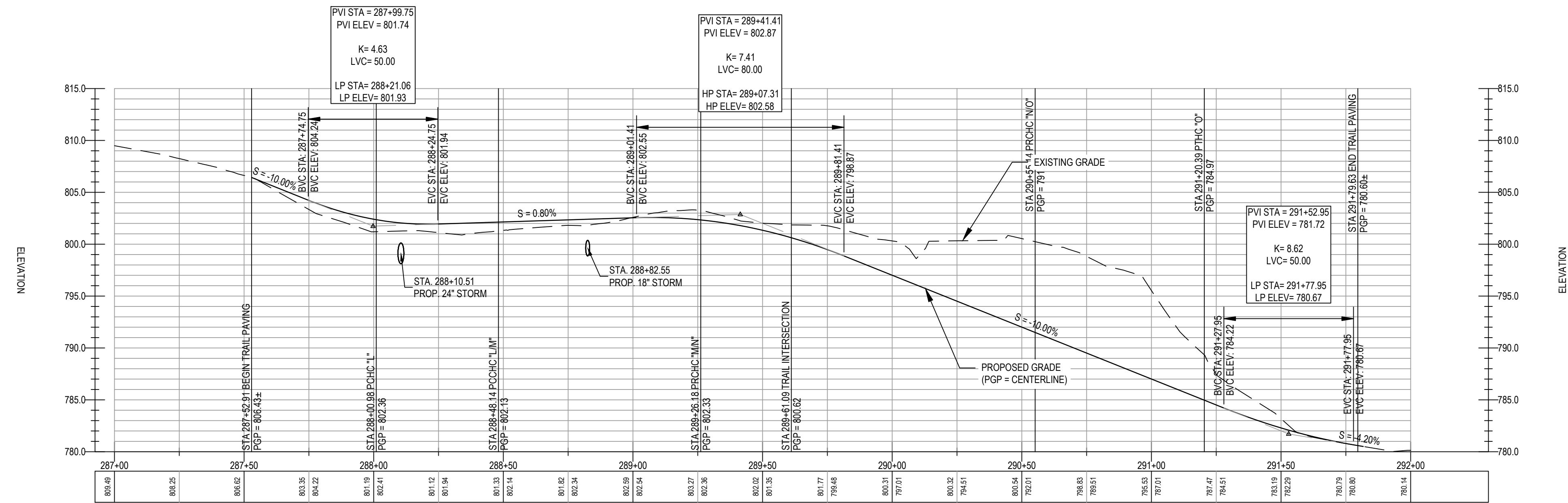
C-204

CONSTRUCTION DOCUMENTS
09/26/2025

SITE PLAN
SCALE: 1"=30'



CURVE DATA			
L	R = 100.00'	N	R = 350.00'
	L = 47.16"		L = 128.95'
	T = 24.03'		T = 65.21'
	CL = 46.73'		CL = 128.22'
	Δ = 27° 01' 24"		Δ = 21° 06' 34"
M	R = 60.00'	O	R = 200.00'
	L = 78.04'		L = 65.25'
	T = 45.64'		T = 32.92'
	CL = 72.65'		CL = 64.96'
	Δ = 74° 31' 23"		Δ = 18° 41' 36"



PROFILE
H SCALE: 1"=30'
V SCALE: 1"=7.5'

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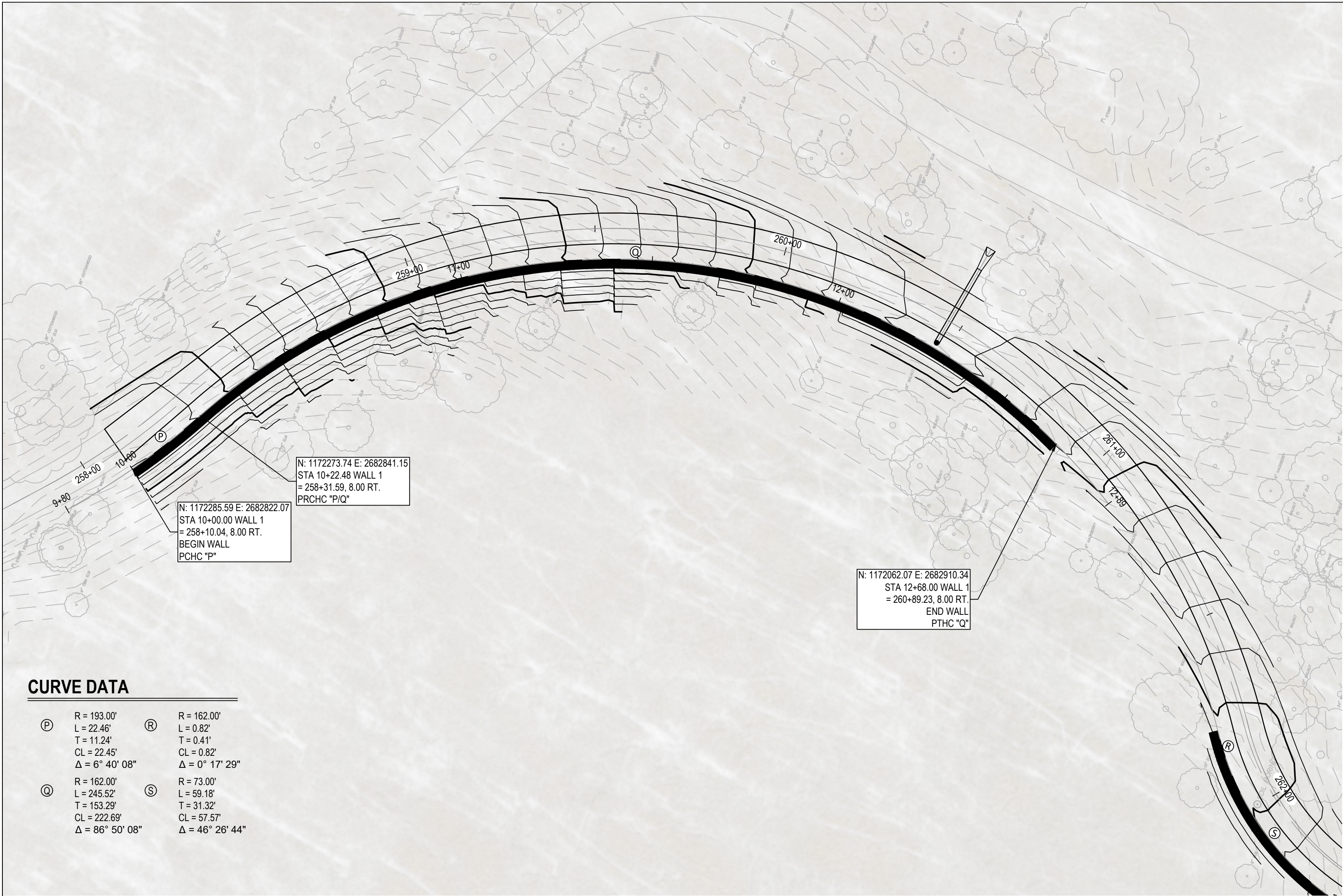
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DESIGNED BY: _____

SHEET TITLE:
Area 5 Plan & Profile

SHEET NUMBER:

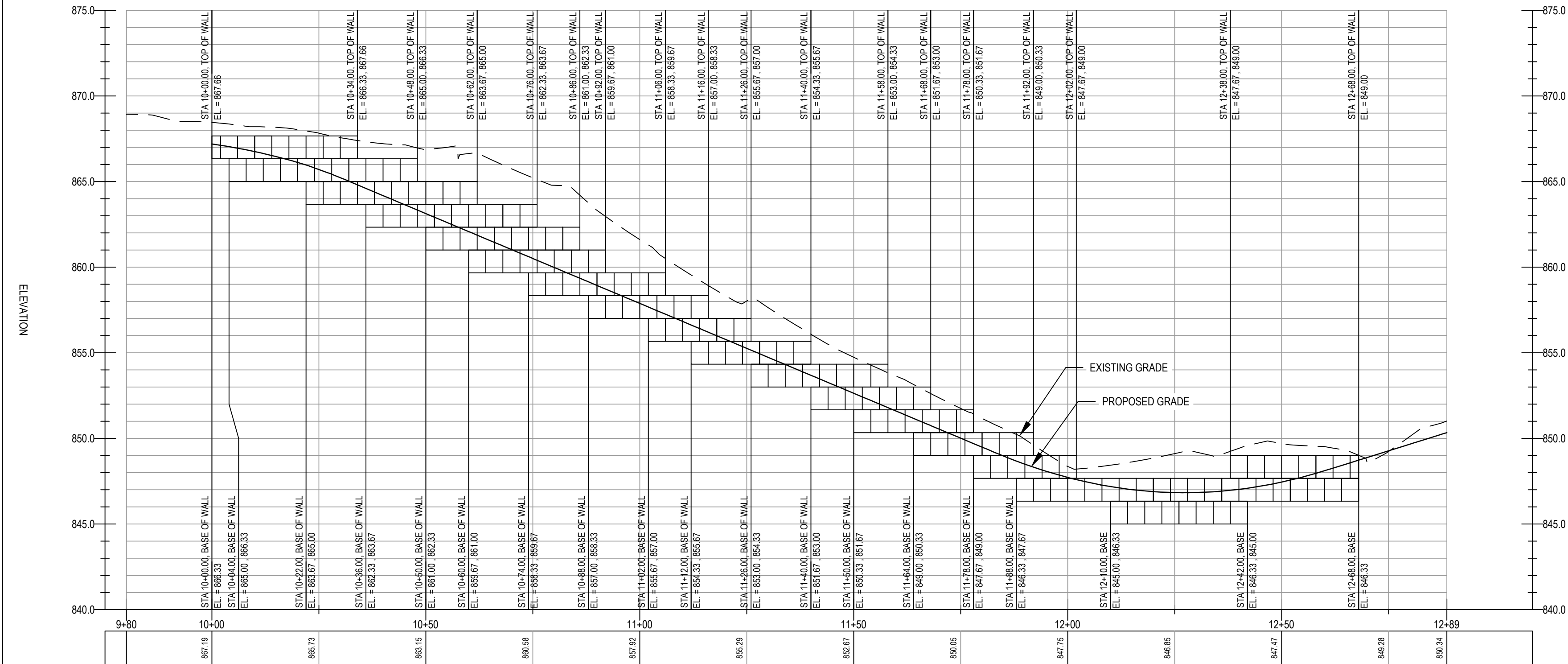
C-205

CONSTRUCTION DOCUMENTS
09/26/2025

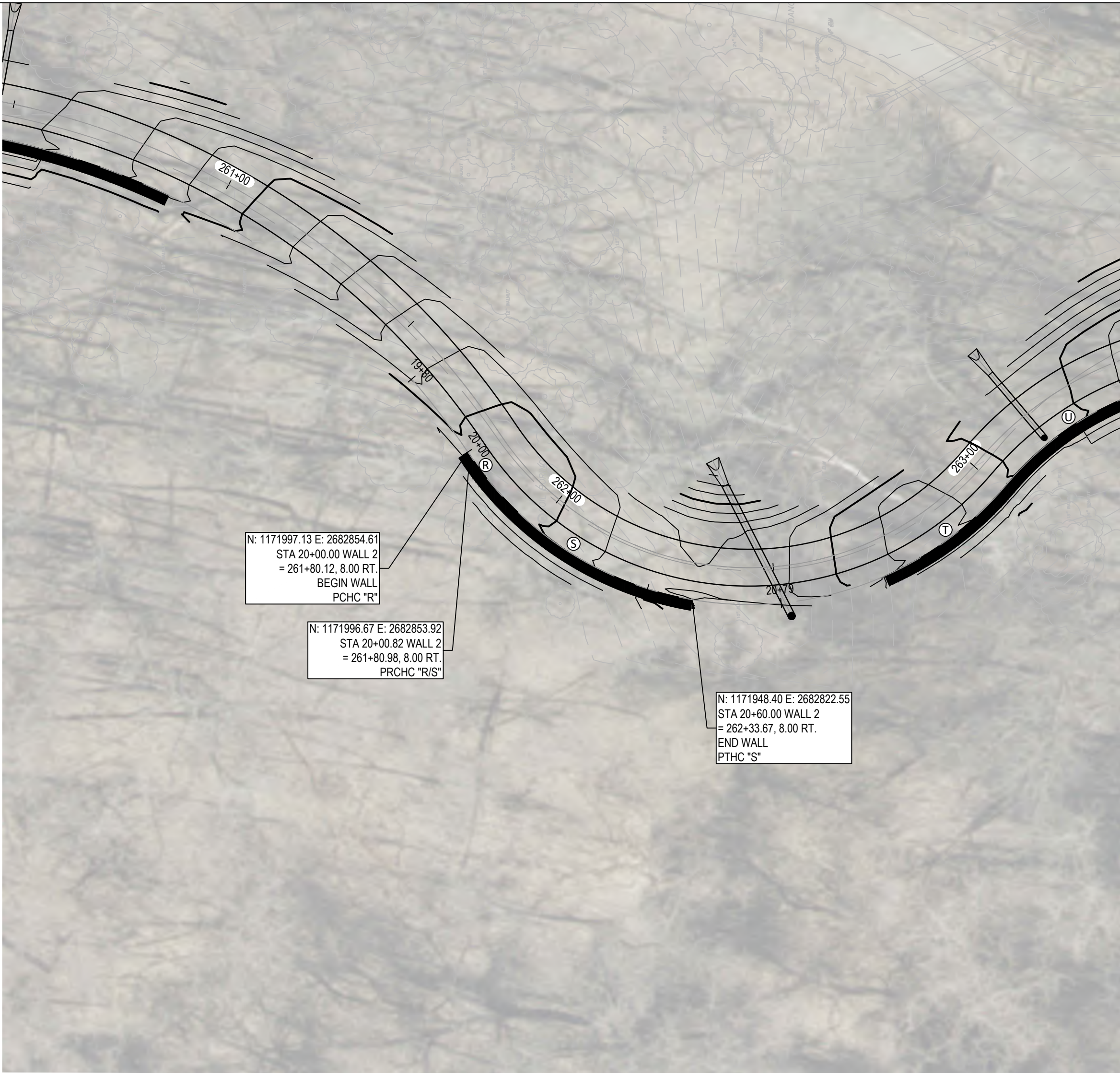


CURVE DATA			
P	R = 193.00'	R	L = 22.46'
	L = 22.46'		T = 11.24'
	CL = 22.45'		CL = 0.82'
	Δ = 6° 40' 08"		Δ = 0° 17' 29"
Q	R = 162.00'	S	L = 59.18'
	L = 245.52'		T = 153.29'
	CL = 222.69'		CL = 57.57'
	Δ = 86° 50' 08"		Δ = 46° 26' 44"

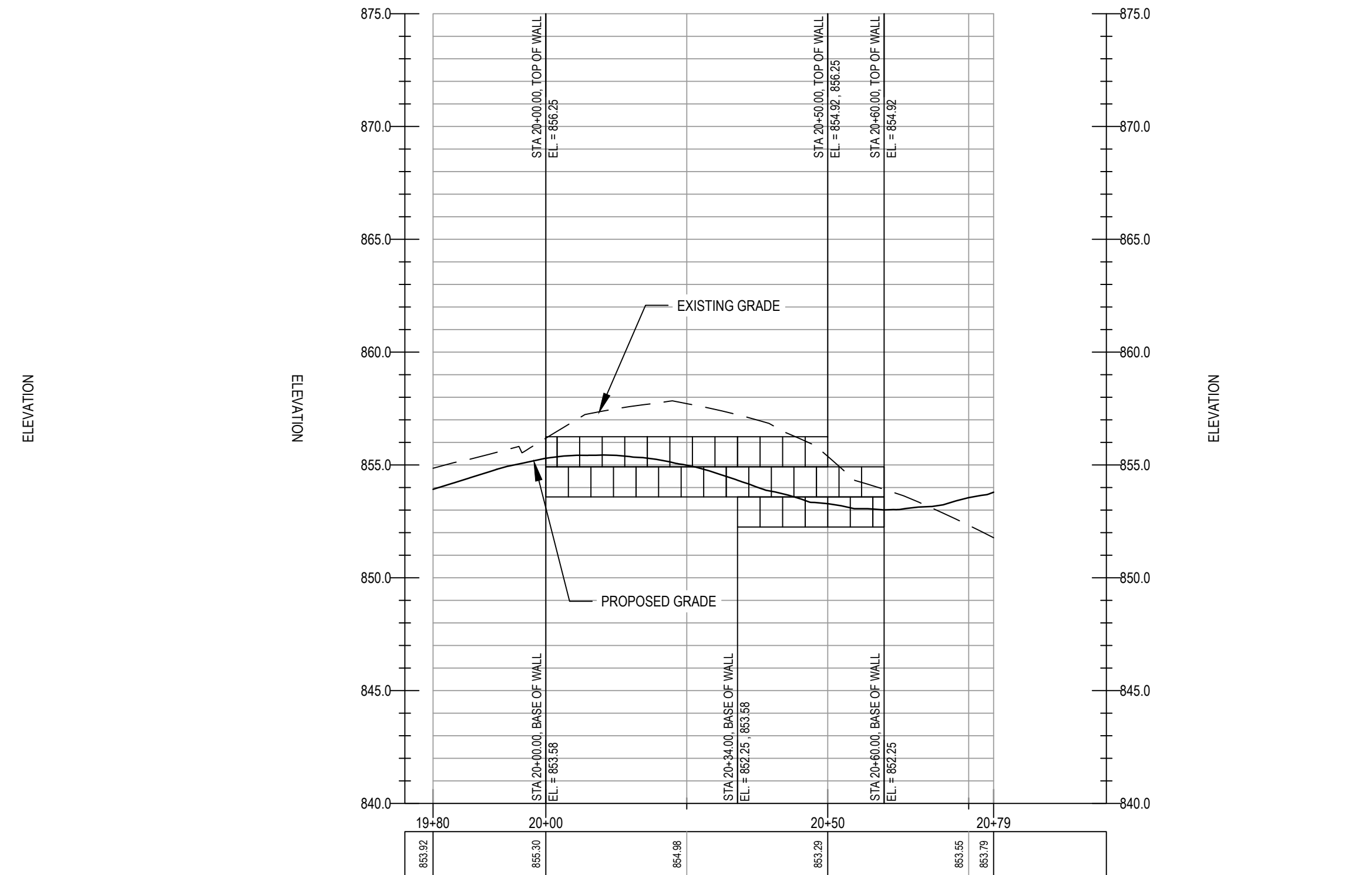
WALL 1 PLAN
SCALE: 1"=20'



PROFILE
H. SCALE: 1"=20'
V. SCALE: 1"=5'



WALL 2 PLAN
SCALE: 1"=20'



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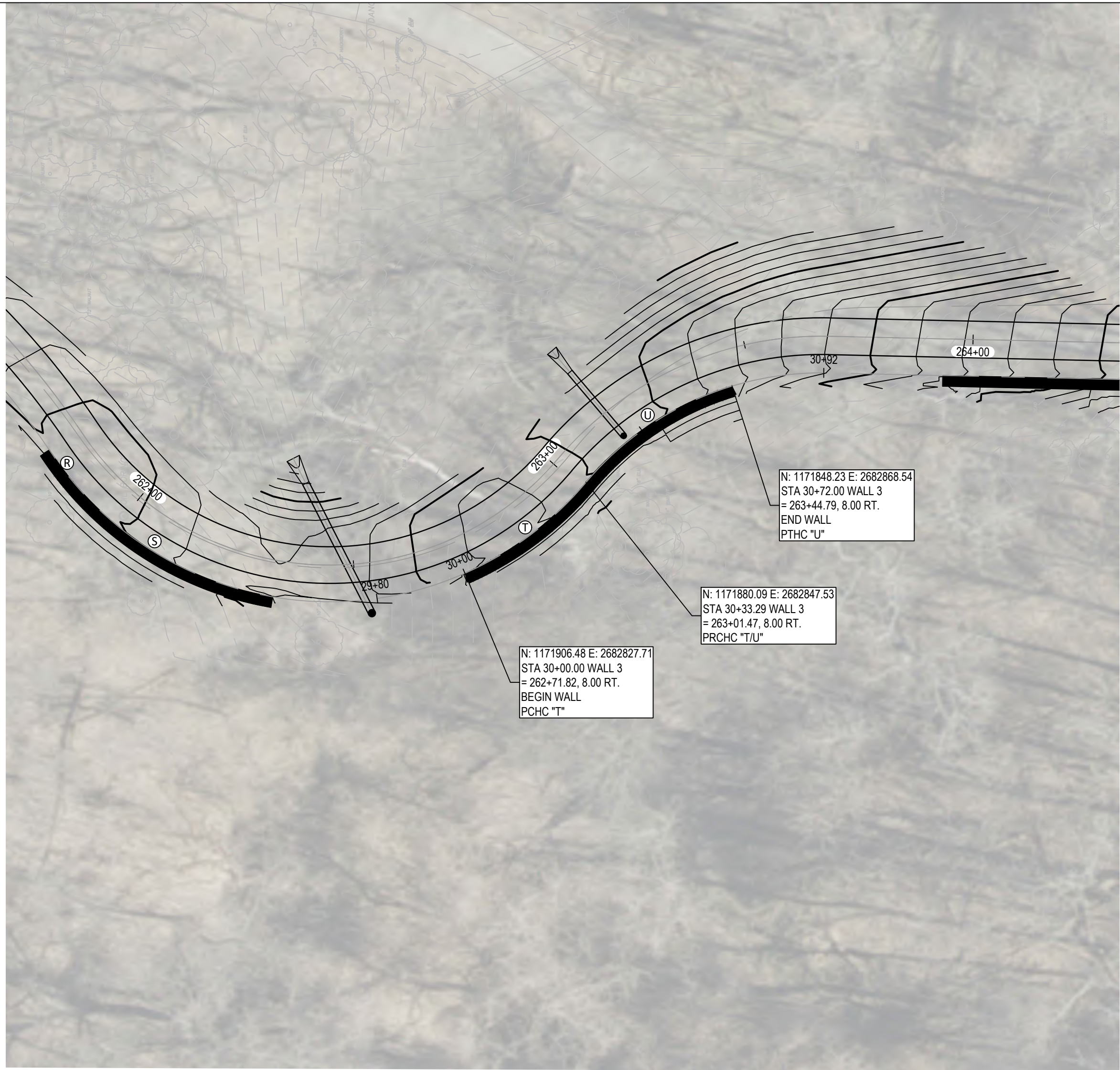
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SHEET TITLE:
Wall 1 & 2 Plan & Profile

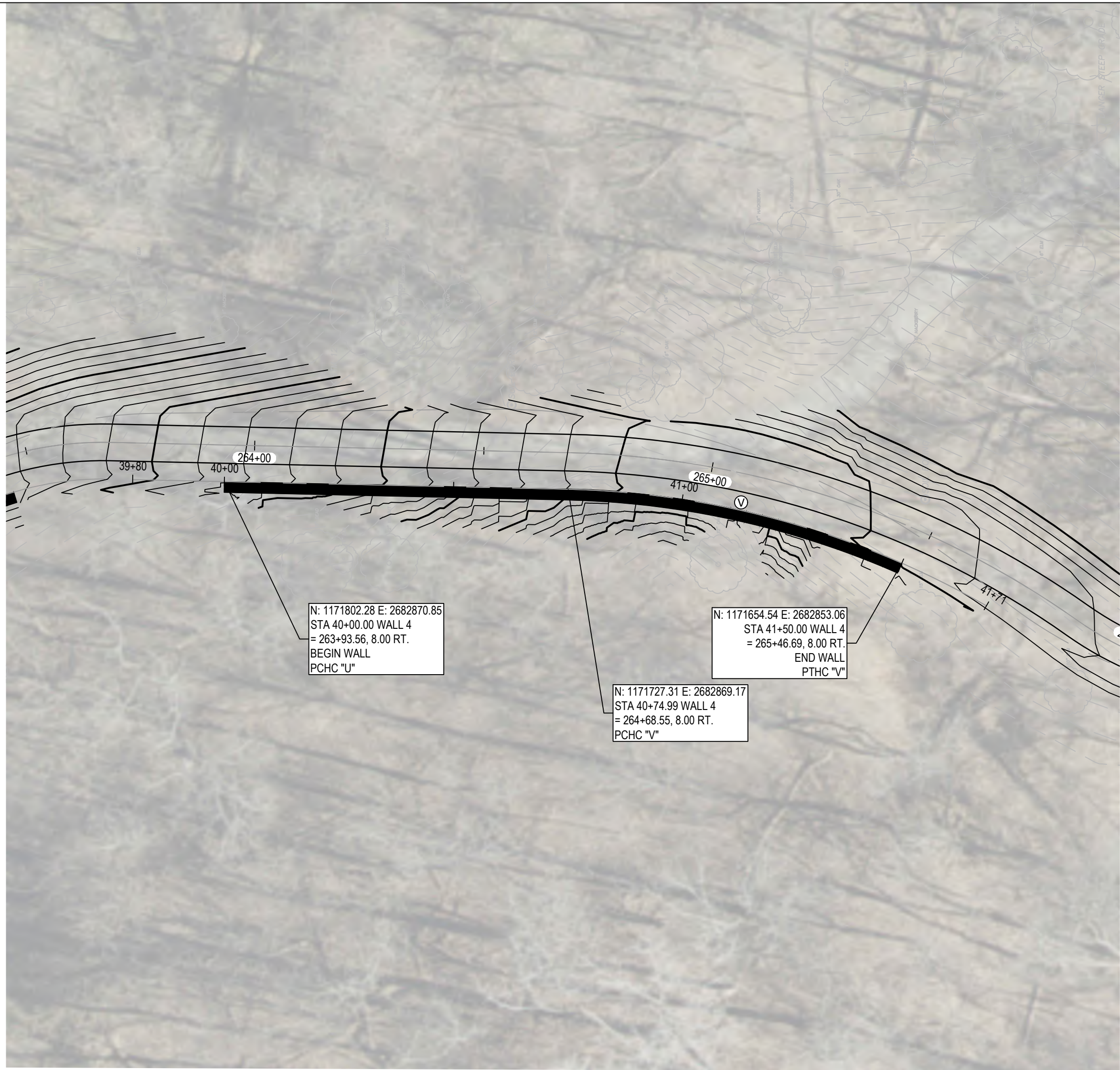
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C-206

CONSTRUCTION DOCUMENTS
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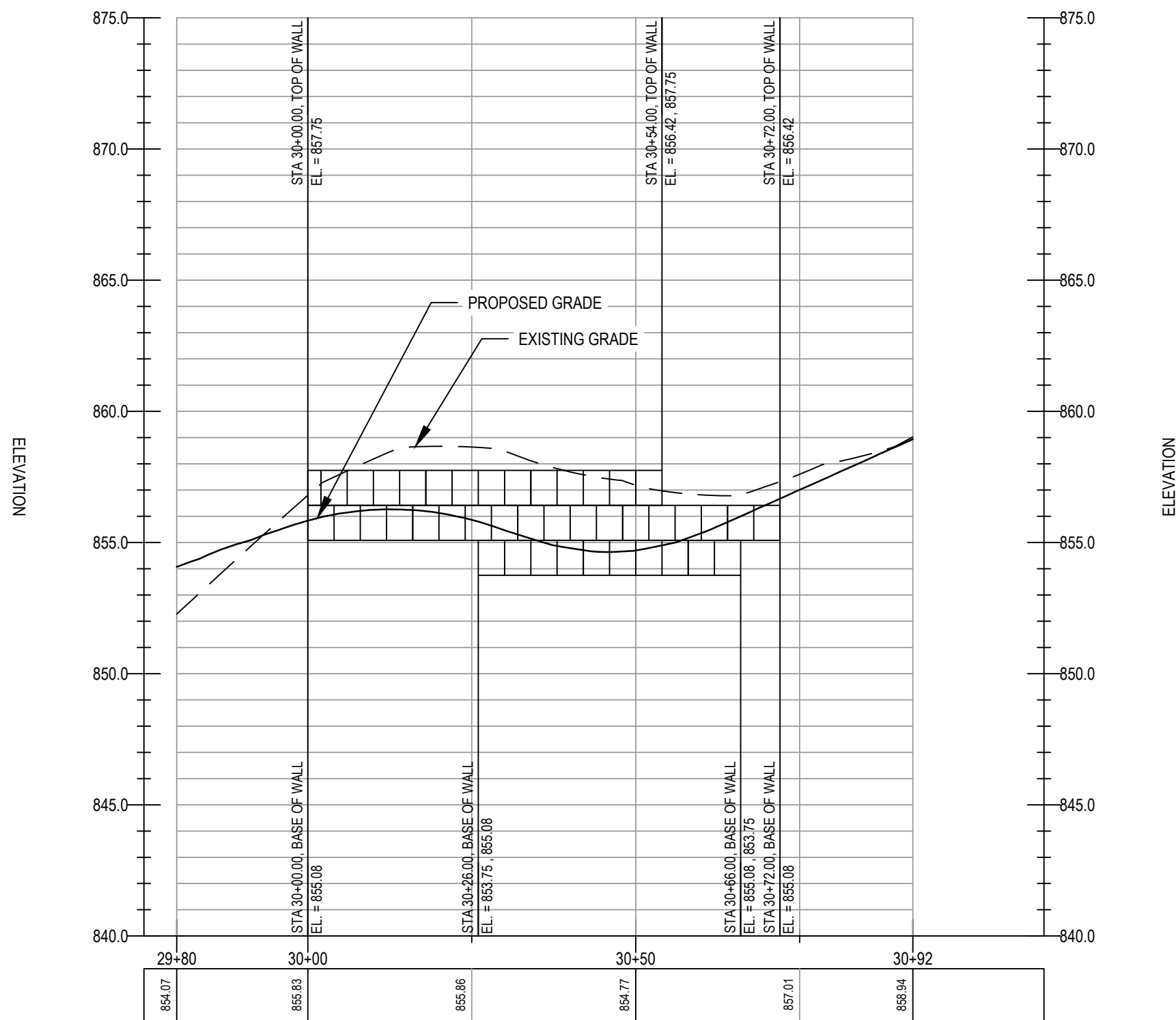
WALL 3 PLAN
SCALE: 1"=20'



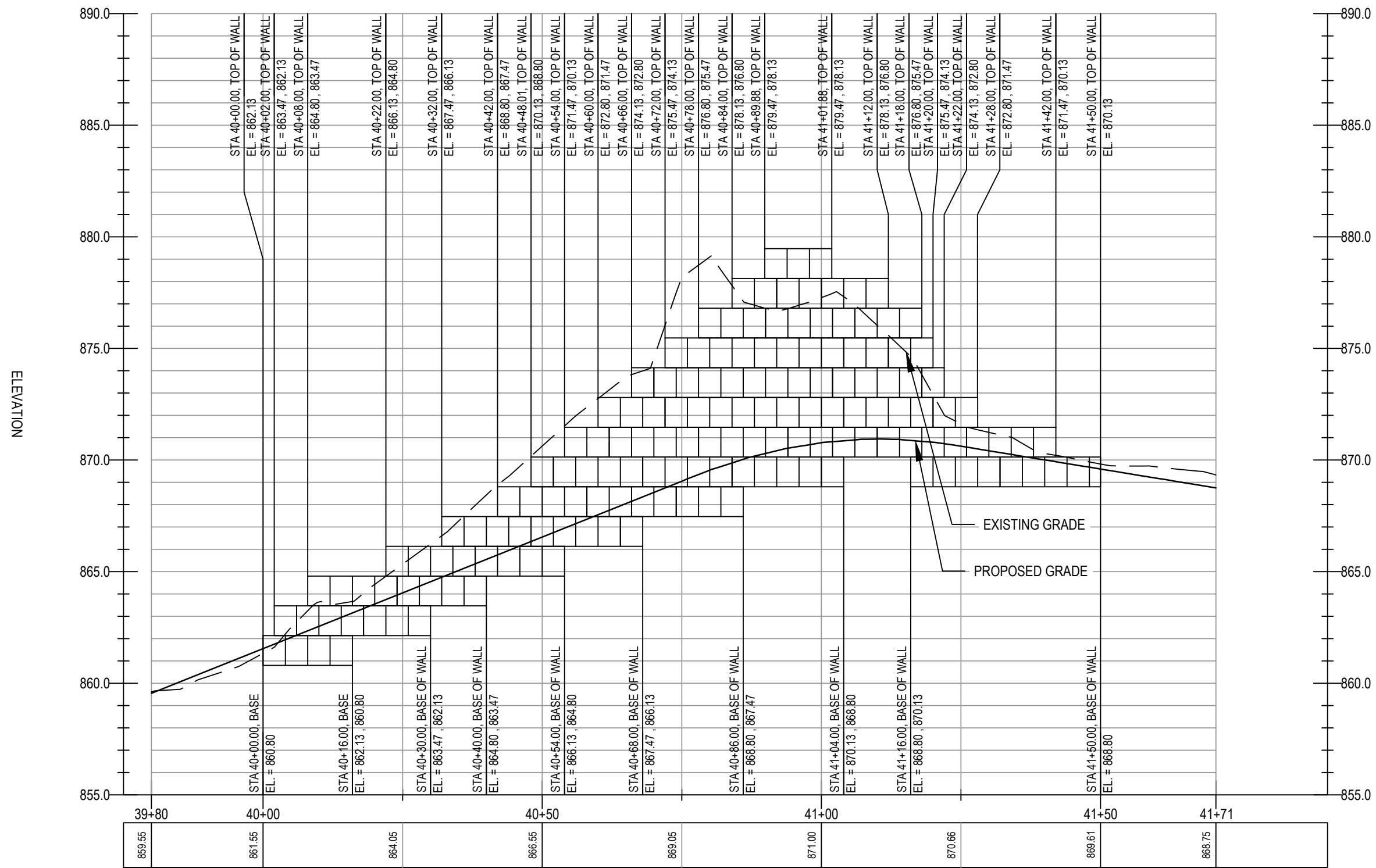
WALL 4 PLAN
SCALE: 1"=20'

CURVE DATA

①	R = 73.00' L = 33.29' T = 16.94' CL = 33.01' Δ = 26° 07' 56"	②	R = 192.00' L = 75.01' T = 37.99' CL = 74.54' Δ = 22° 23' 08"
③	R = 67.00' L = 38.71' T = 19.91' CL = 38.17' Δ = 33° 05' 57"		



PROFILE
H. SCALE: 1"=20'
V. SCALE: 1"=5'



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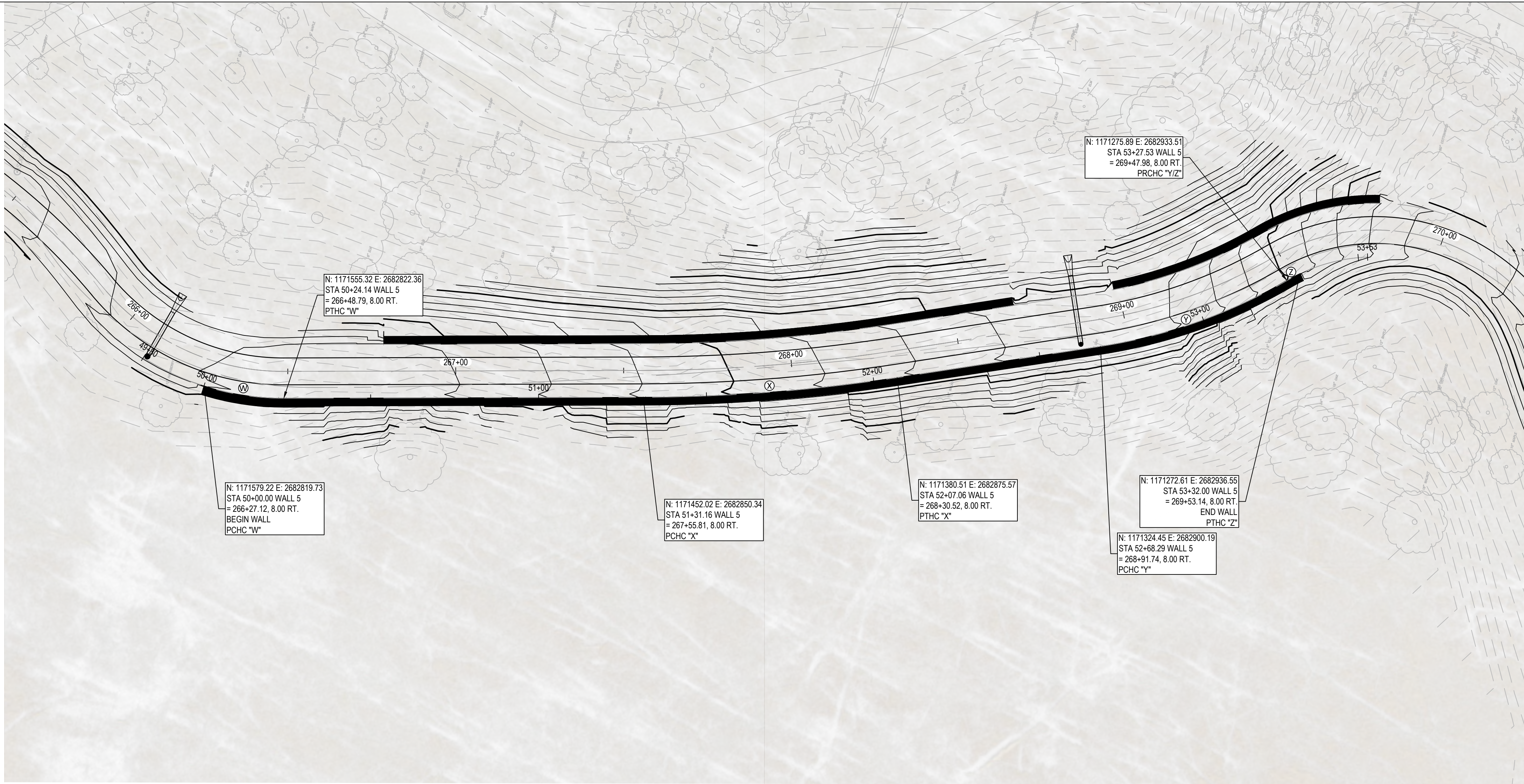
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DESIGNED BY: _____

SHEET TITLE:
Wall 3 & 4 Plan & Profile

SHEET NUMBER:

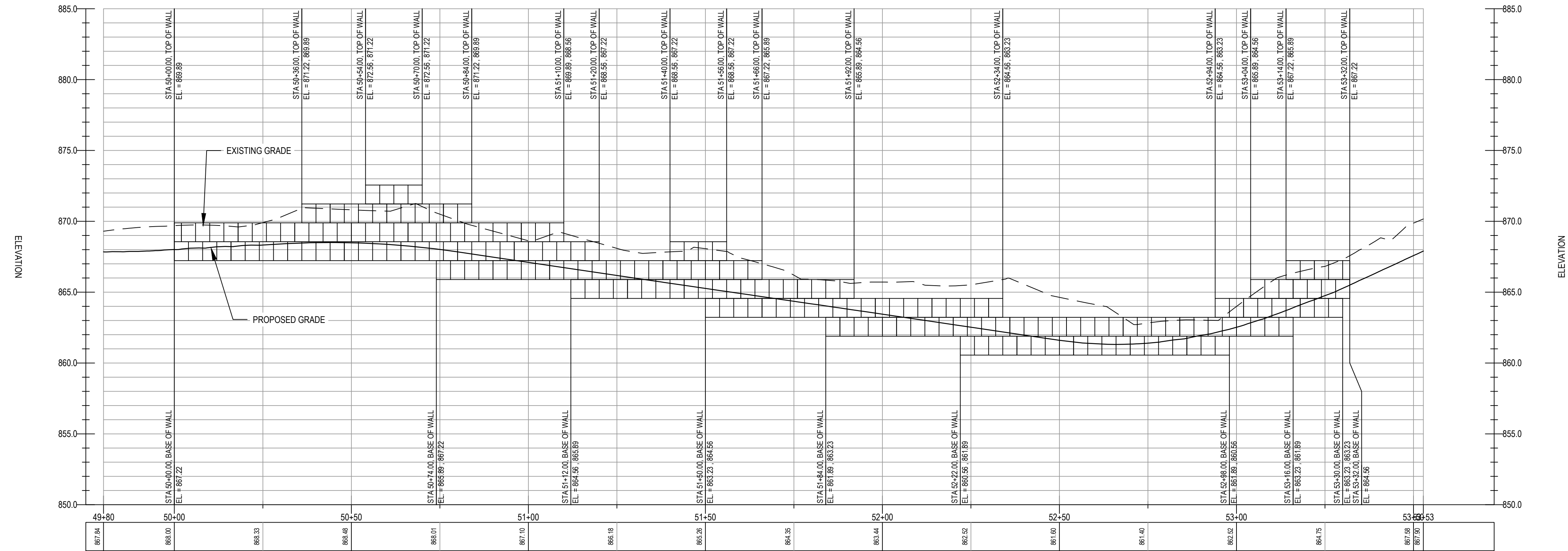
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CONSTRUCTION DOCUMENTS
09/26/2025



CURVE DATA			
⑩	R = 78.00' L = 24.14' T = 12.17' CL = 24.05' Δ = 17° 44' 01"	⑪	R = 158.00' L = 59.24' T = 29.97' CL = 58.89' Δ = 21° 28' 57"
⑪	R = 508.00' L = 75.90' T = 38.02' CL = 75.83' Δ = 8° 33' 40"	⑫	R = 52.00' L = 4.47' T = 2.24' CL = 4.47' Δ = 4° 55' 29"

 **WALL 5 PLAN**
SCALE: 1"=20'



PROFILE
H. SCALE: 1"=20'
V. SCALE: 1"=5'

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PAVED TRAIL REPAIR
DESIGN & PHASE 2
CONSTRUCTION

WESTON BEND STATE PARK
16600 HIGHWAY 45 NORTH
WESTON, MO 64098

PROJECT # X2117-02
SITE # 5118
ASSET # 7815118012

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/26/2025

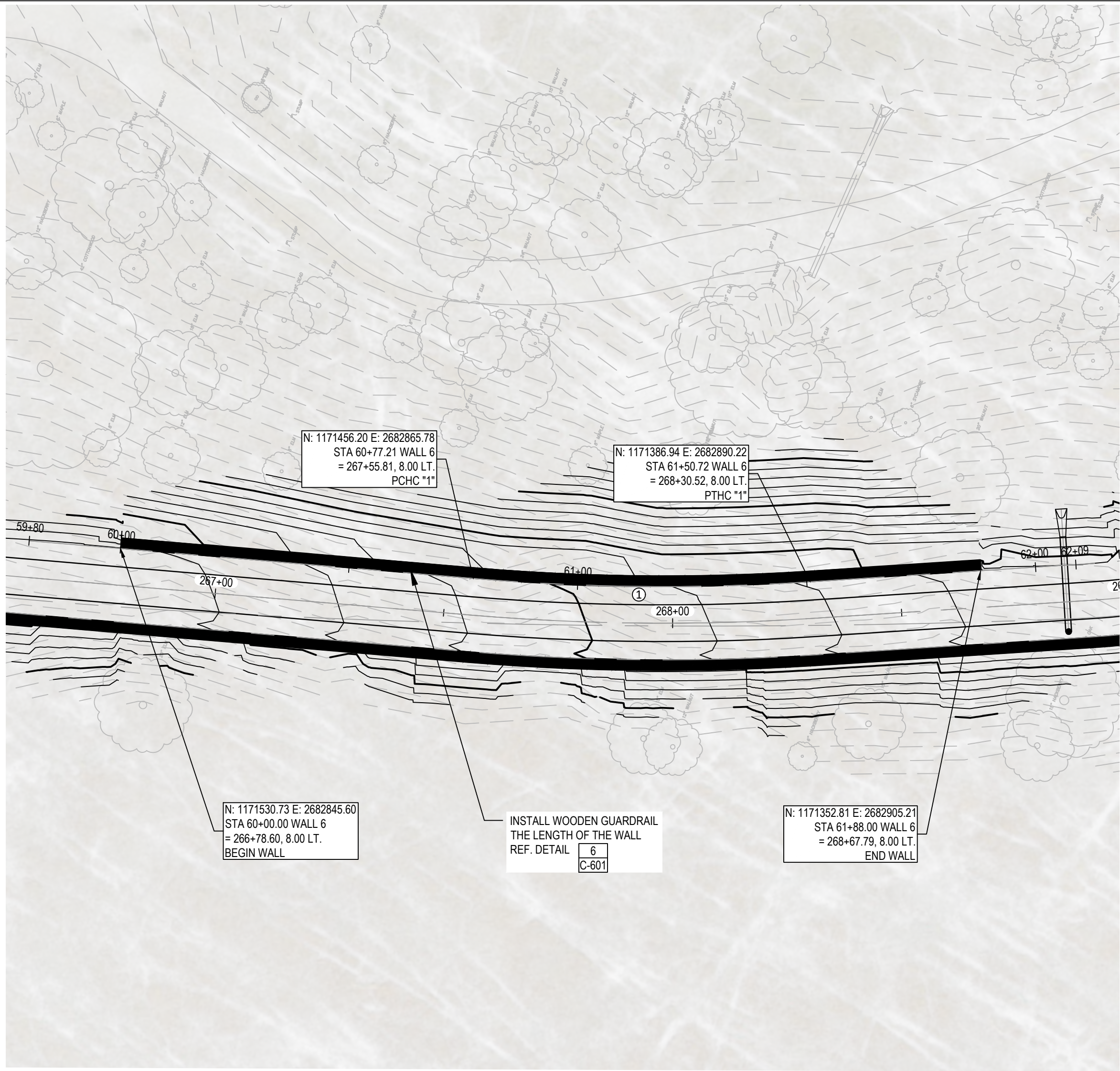
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DESIGNED BY: _____

SHEET TITLE:
Wall 5 Plan & Profile

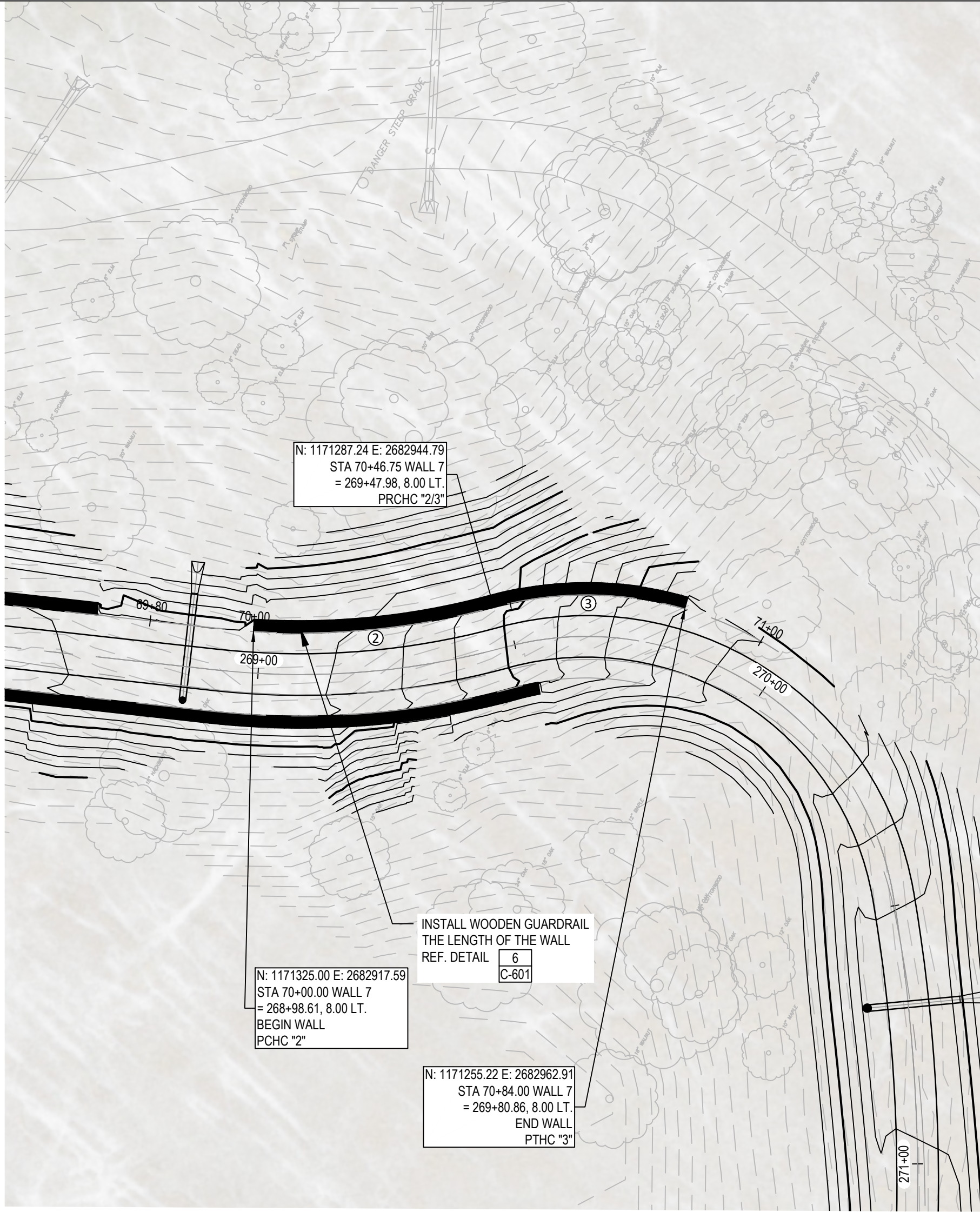
SHEET NUMBER:

C-208

CONSTRUCTION DOCUMENTS
09/26/2025



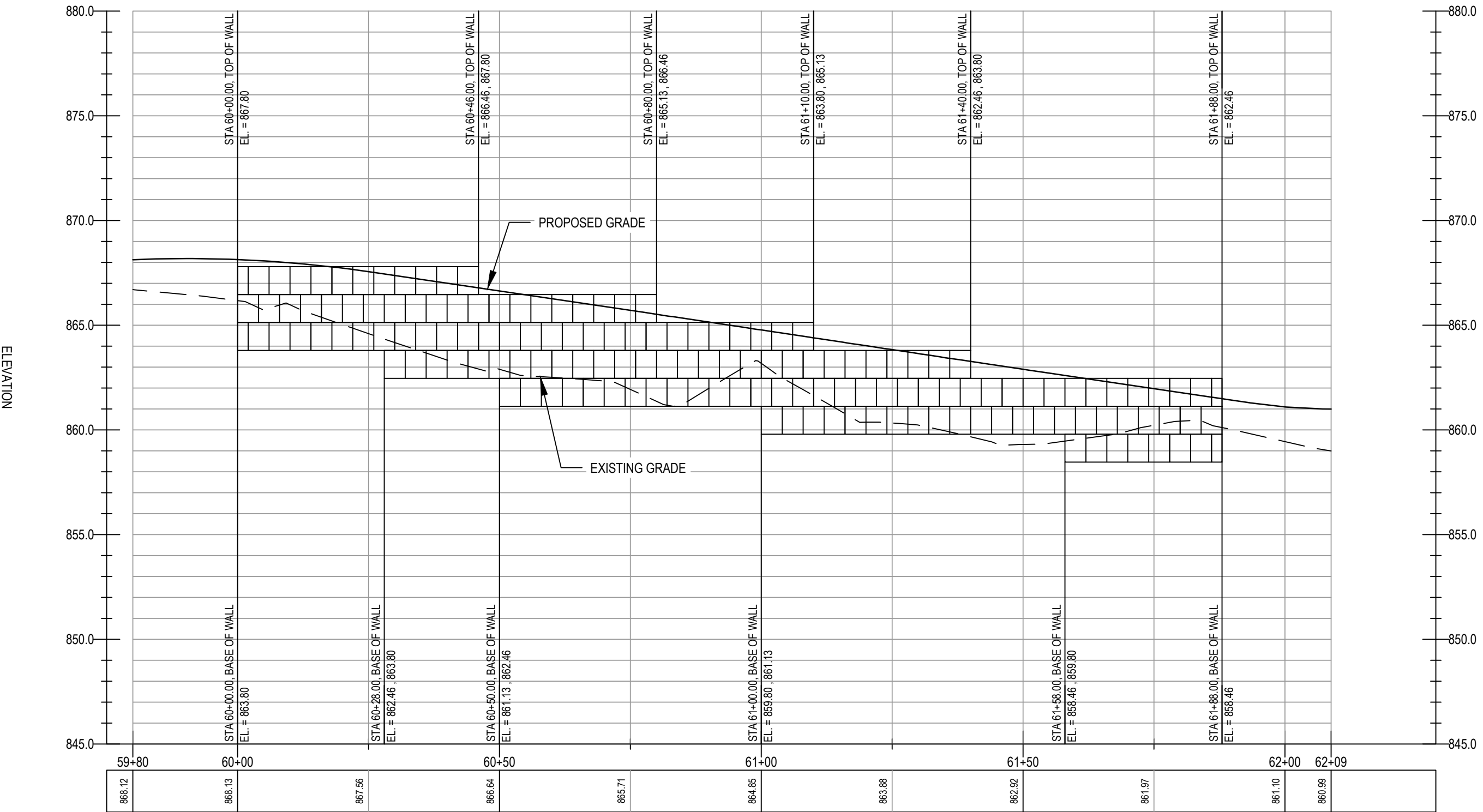
WALL 6 PLAN
SCALE: 1"=20'



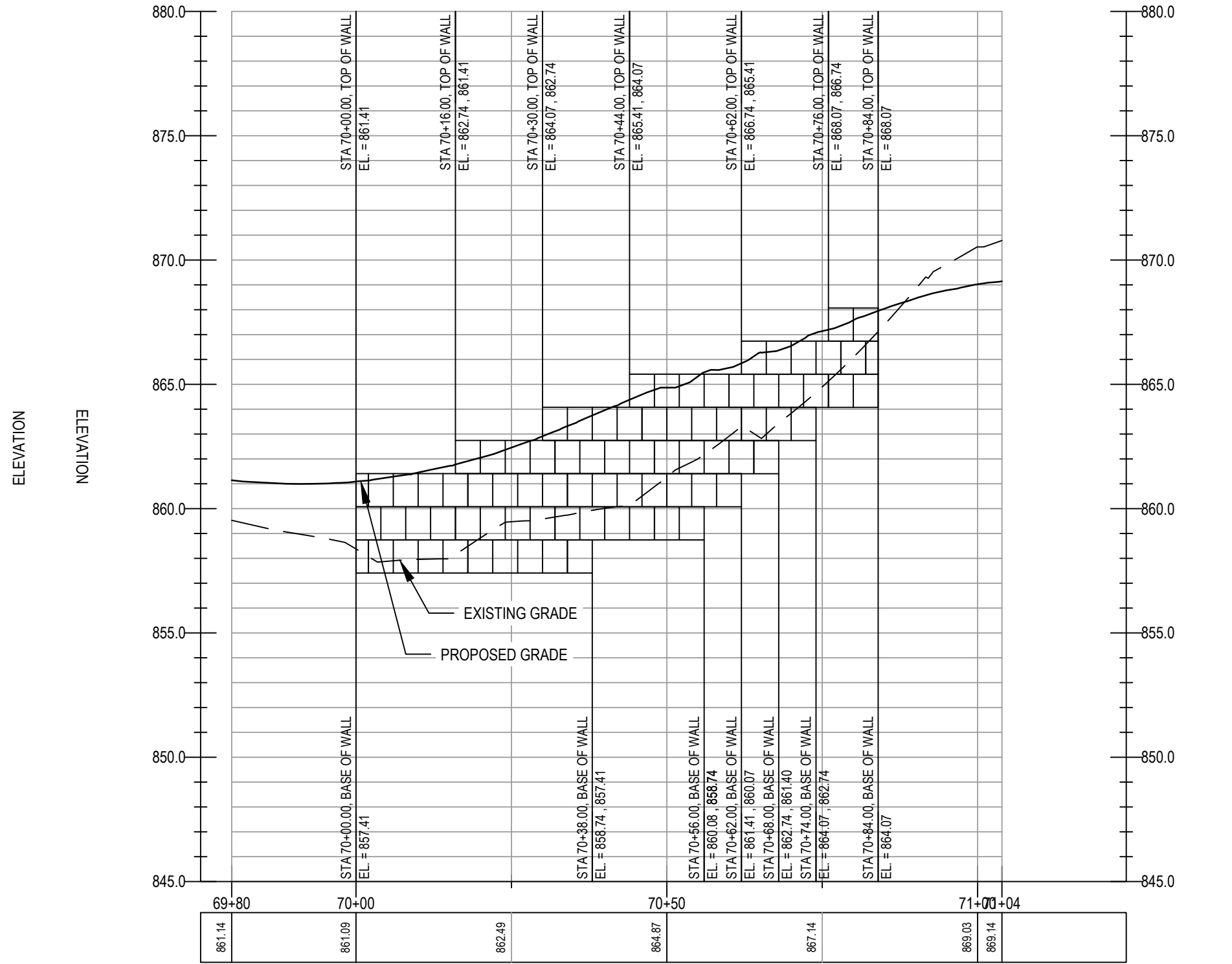
WALL 7 PLAN
SCALE: 1"=20'

CURVE DATA

①	R = 492.00' L = 73.51' T = 36.83' CL = 73.45' Δ = 8° 33' 40"	③	R = 58.00' L = 37.25' T = 19.11' CL = 36.79' Δ = 31° 23' 25"
②	R = 142.00' L = 46.75' T = 23.59' CL = 46.53' Δ = 18° 51' 41"		



PROFILE
H. SCALE: 1"=20'
V. SCALE: 1"=5'



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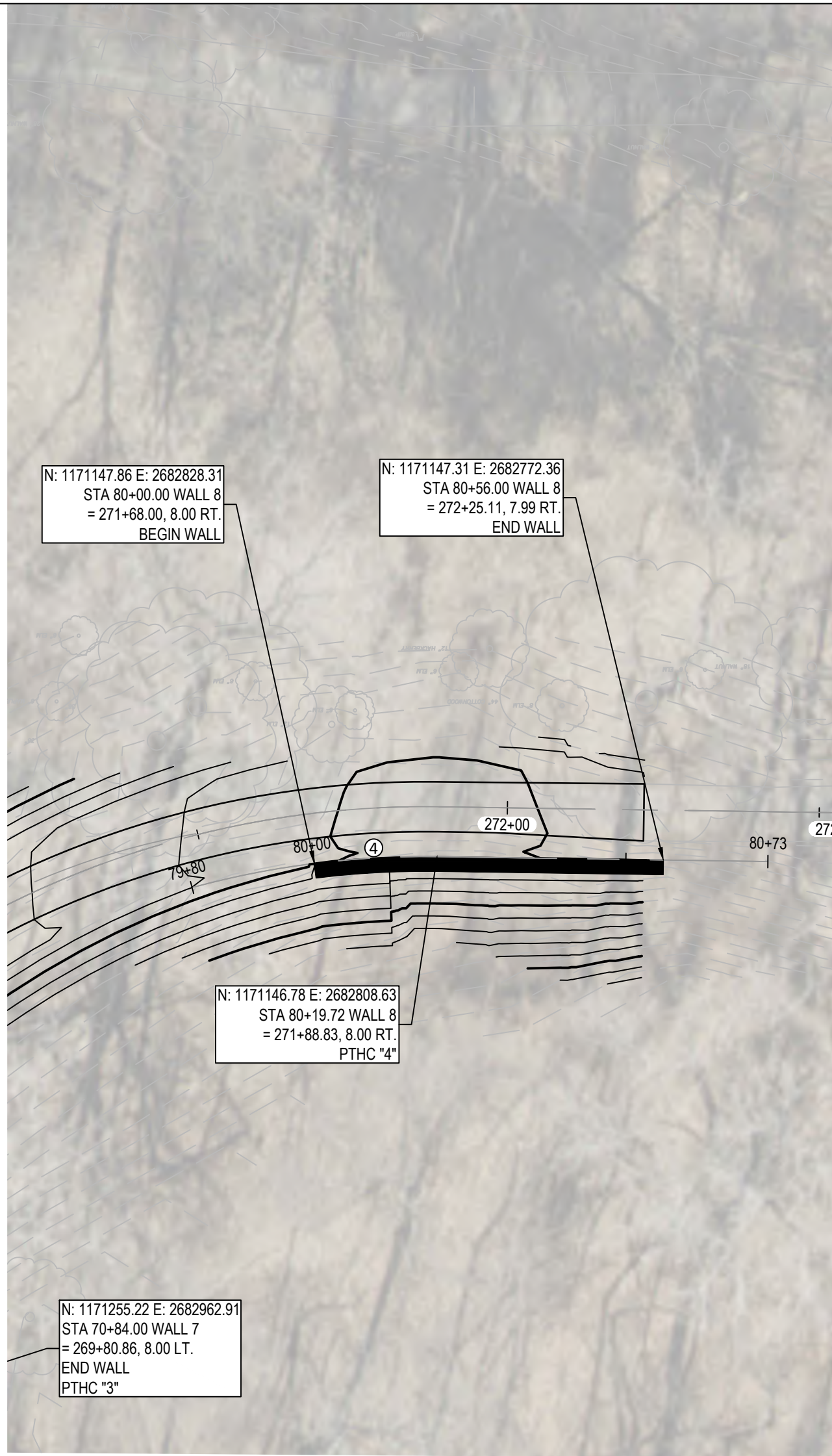
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DESIGNED BY: _____

SHEET TITLE:
Wall 6 & 7 Plan & Profile

SHEET NUMBER:

C-209

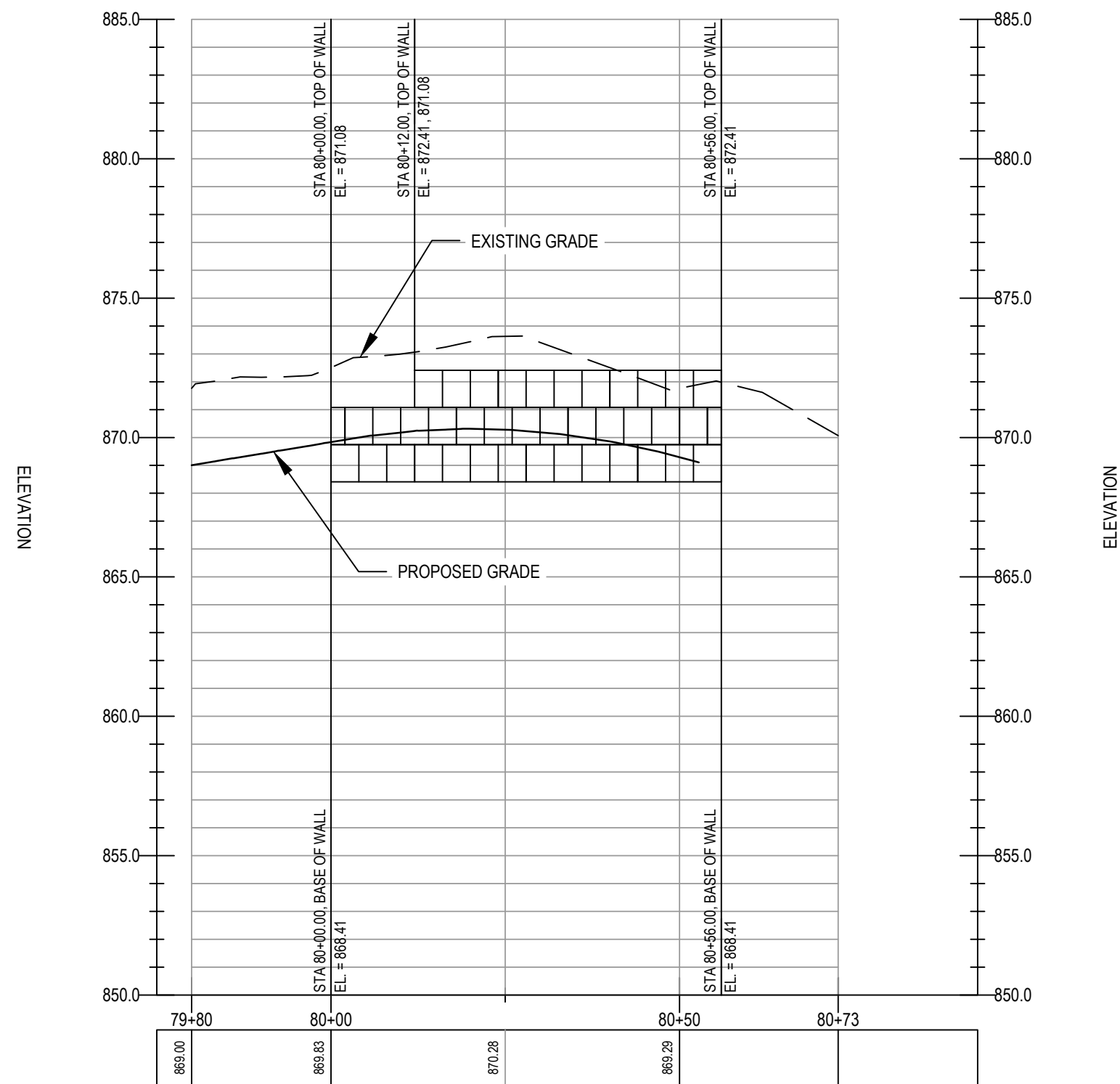
CONSTRUCTION DOCUMENTS
09/26/2025



WALL 8 PLAN
SCALE: 1"=20'

CURVE DATA

- ④
R = 142.00'
L = 19.72'
T = 9.88'
CL = 19.71'
Δ = 7° 57' 30"



PROFILE

H. SCALE: 1"=20'
V. SCALE: 1"=5'

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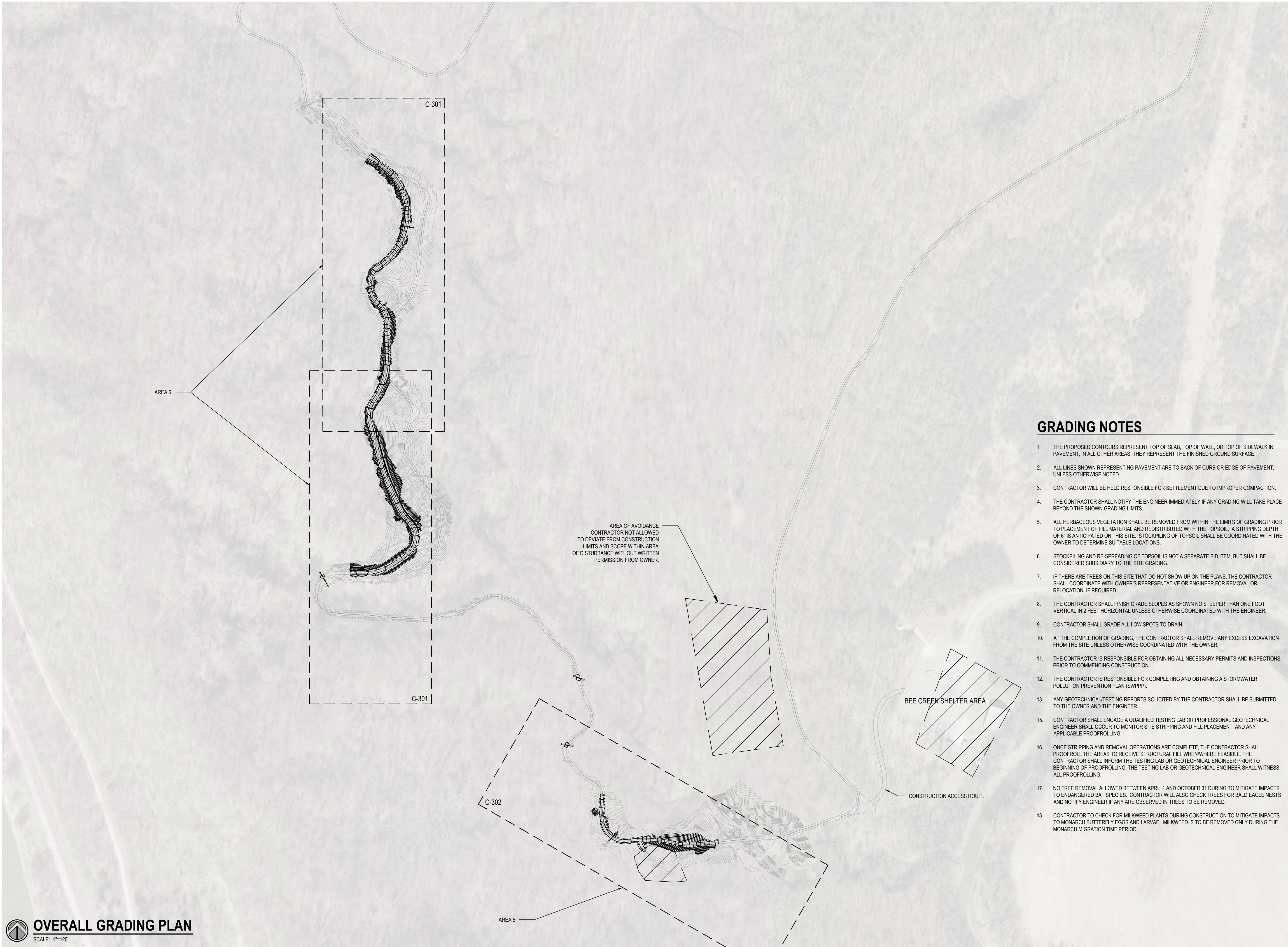
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DESIGNED BY: _____

SHEET TITLE:
Wall 8 Plan & Profile

SHEET NUMBER:

C-210

CONSTRUCTION DOCUMENTS
09/26/2025



GRADING NOTES

1. THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, TOP OF WALL, OR TOP OF SIDEWALK IN PAVEMENT, IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE.
2. ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
3. CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY GRADING WILL TAKE PLACE BEYOND THE SHOWN GRADING LIMITS.
5. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF GRADING PRIOR TO PLACEMENT OF FILL MATERIAL AND REDISTRIBUTED WITH THE TOPSOIL. A STRIPPING DEPTH OF 6" IS ANTICIPATED ON THIS SITE. STOCKPILING OF TOPSOIL SHALL BE COORDINATED WITH THE OWNER TO DETERMINE SUITABLE LOCATIONS.
6. STOCKPILING AND RE-SPREADING OF TOPSOIL IS NOT A SEPARATE BID ITEM, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE SITE GRADING.
7. IF THERE ARE TREES ON THIS SITE THAT DO NOT SHOW UP ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE OR ENGINEER FOR REMOVAL OR RELOCATION, IF REQUIRED.
8. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN ONE FOOT VERTICAL IN 2 FEET HORIZONTAL UNLESS OTHERWISE COORDINATED WITH THE ENGINEER.
9. CONTRACTOR SHALL GRADE ALL LOW SPOTS TO DRAIN.
10. AT THE COMPLETION OF GRADING, THE CONTRACTOR SHALL REMOVE ANY EXCESS EXCAVATION FROM THE SITE UNLESS OTHERWISE COORDINATED WITH THE OWNER.
11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSPECTIONS PRIOR TO COMMENCING CONSTRUCTION.
12. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING AND OBTAINING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
13. ANY GEOTECHNICAL/TESTING REPORTS SOLICITED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER.
15. CONTRACTOR SHALL ENGAGE A QUALIFIED TESTING LAB OR PROFESSIONAL GEOTECHNICAL ENGINEER SHALL OCCUR TO MONITOR SITE STRIPPING AND FILL PLACEMENT, AND ANY APPLICABLE PROOFROLLING.
16. ONCE STRIPPING AND REMOVAL OPERATIONS ARE COMPLETE, THE CONTRACTOR SHALL PROOFROLL THE AREAS TO RECEIVE STRUCTURAL FILL WHEN/WHERE FEASIBLE. THE CONTRACTOR SHALL INFORM THE TESTING LAB OR GEOTECHNICAL ENGINEER PRIOR TO BEGINNING OF PROOFROLLING. THE TESTING LAB OR GEOTECHNICAL ENGINEER SHALL WITNESS ALL PROOFROLLING.
17. NO TREE REMOVAL ALLOWED BETWEEN APRIL 1 AND OCTOBER 31 DURING TO MITIGATE IMPACTS TO ENDANGERED BAT SPECIES. CONTRACTOR WILL ALSO CHECK TREES FOR BALD EAGLE NESTS AND NOTIFY ENGINEER IF ANY ARE OBSERVED IN TREES TO BE REMOVED.
18. CONTRACTOR TO CHECK FOR MILKWEED PLANTS DURING CONSTRUCTION TO MITIGATE IMPACTS TO MONARCH BUTTERFLY EGGS AND LARVAE. MILKWEED IS TO BE REMOVED ONLY DURING THE MONARCH MIGRATION TIME PERIOD.

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SITE # 5118
ASSET # 7815118012

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SHEET TITLE:
Overall Grading Plan

SHEET NUMBER:

C-300

CONSTRUCTION DOCUMENTS
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ASSET # 7815118012

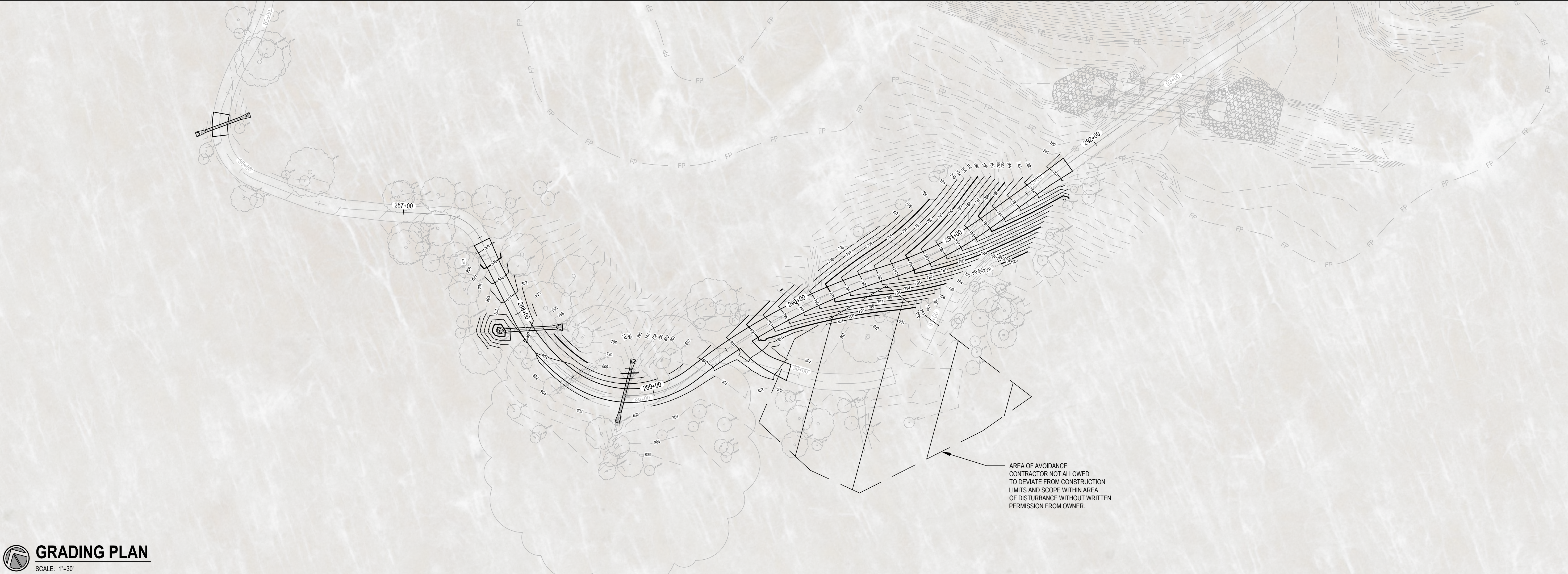
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REVISION: _____
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ISSUE DATE: 09/26/2025

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DESIGNED BY: _____

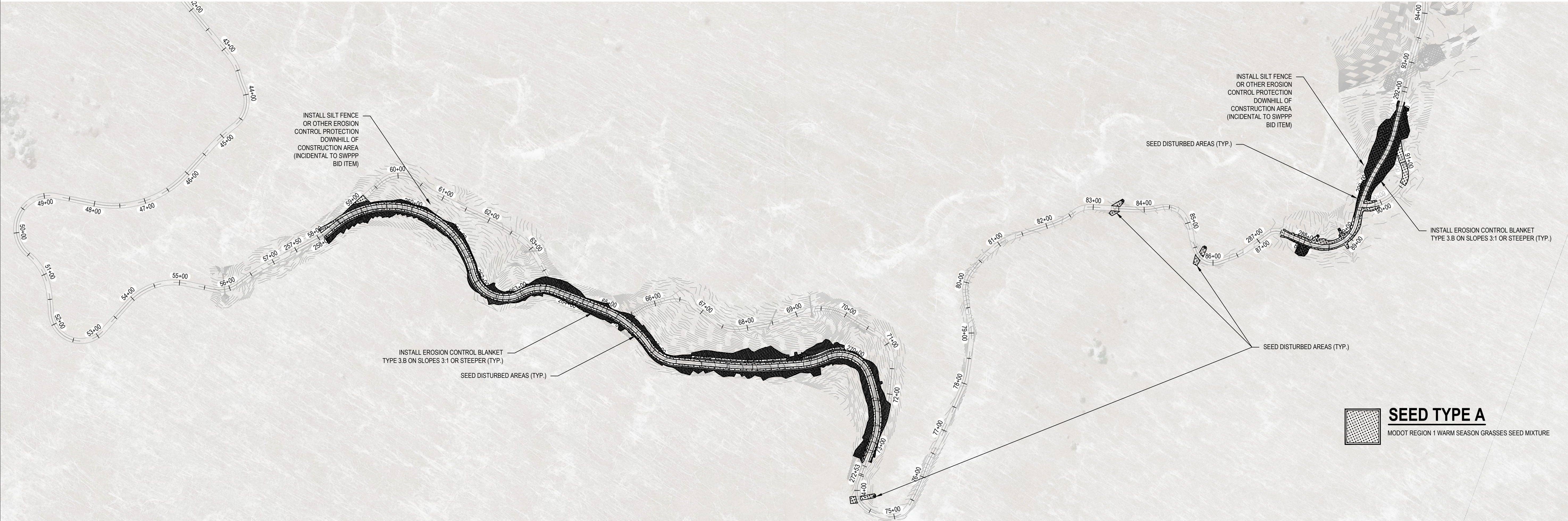
SHEET TITLE:
Area 6 Grading Plan

SHEET NUMBER:
C-301

CONSTRUCTION DOCUMENTS
09/26/2025



GRADING PLAN
SCALE: 1"=30'



SEEDING PLAN
SCALE: 1"=100'

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ASSET # 7815118012**

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SHEET TITLE:
**Area 5 Grading Plan &
Seeding Plan**

SHEET NUMBER:
C-302
CONSTRUCTION DOCUMENTS
09/26/2025



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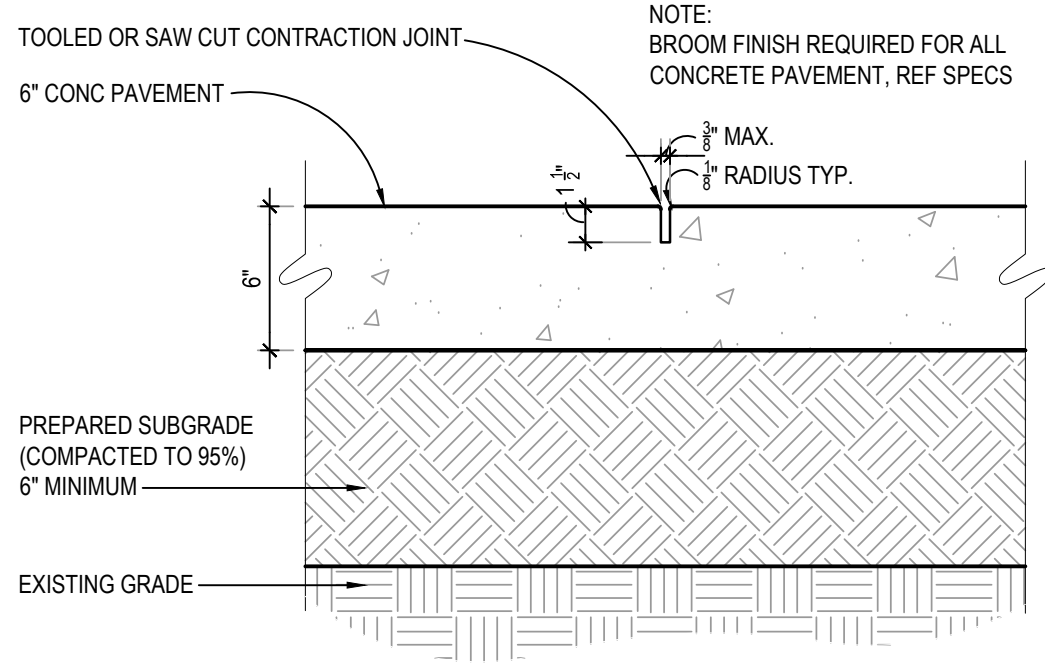
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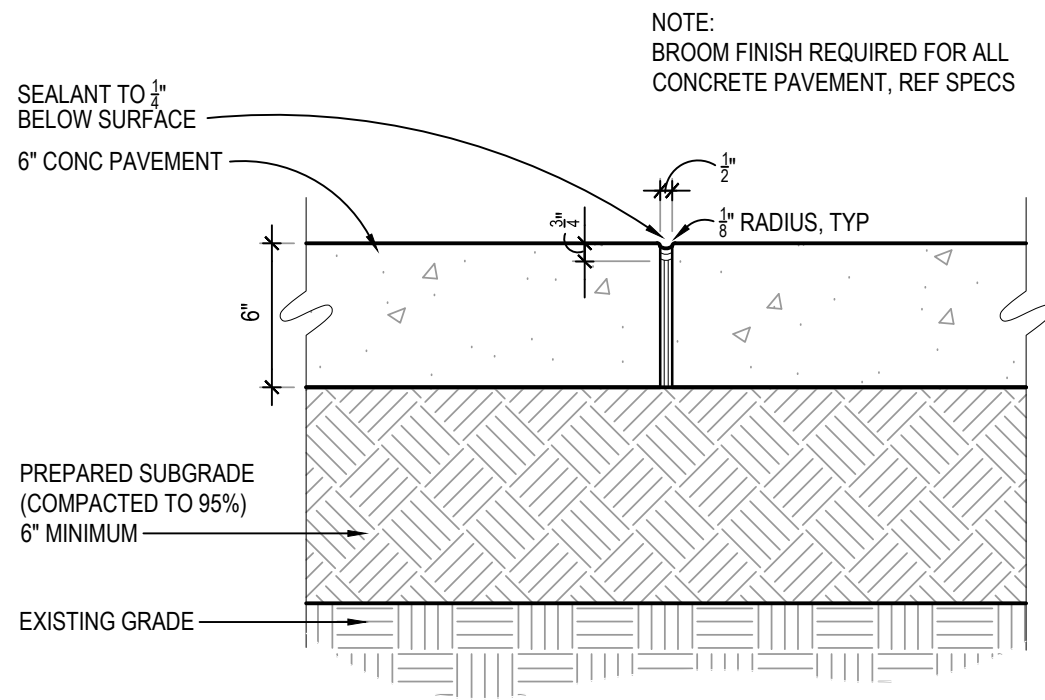
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C-601

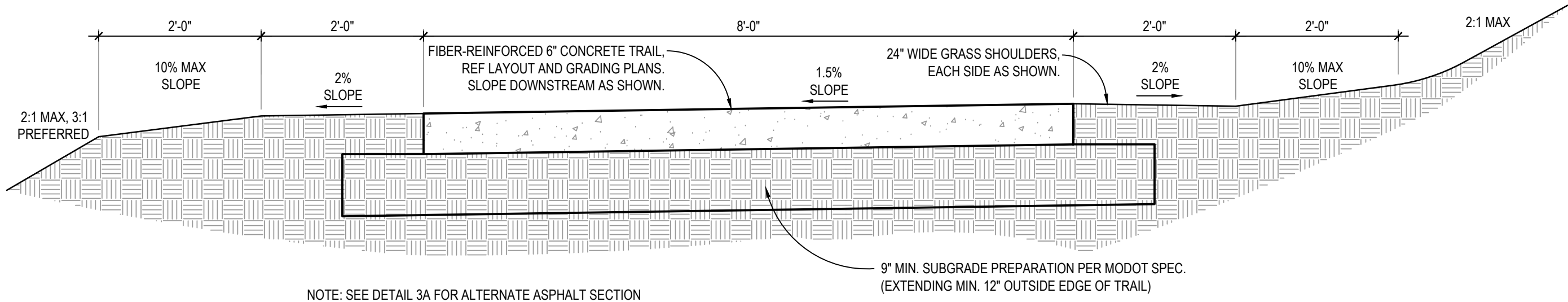
CONSTRUCTION DOCUMENTS
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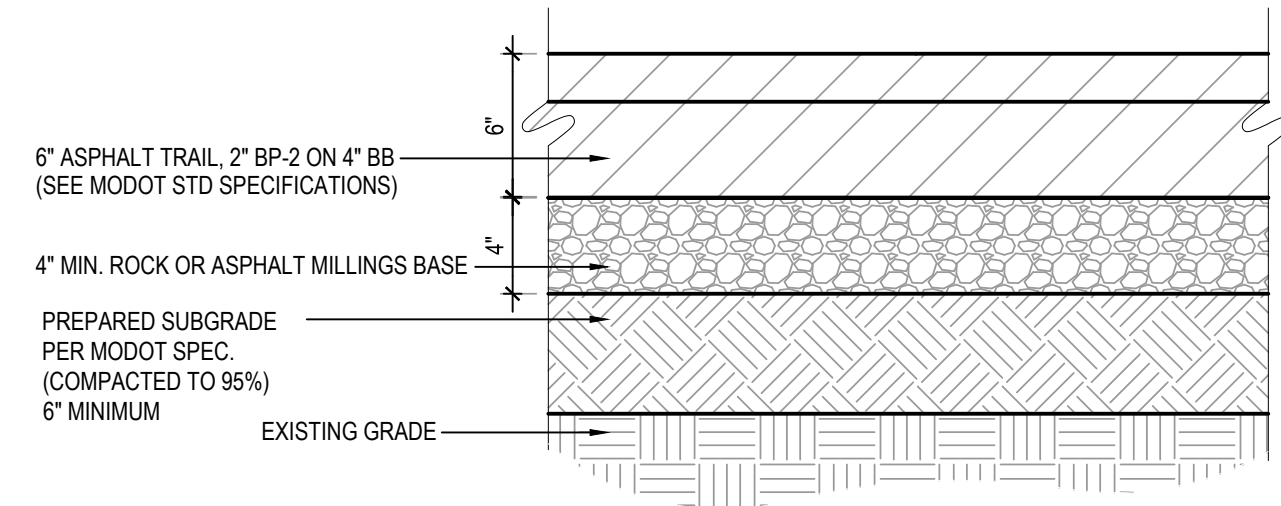
1 CONC. CONTRACTION JOINT
SCALE: 1 1/2"=1'-0"



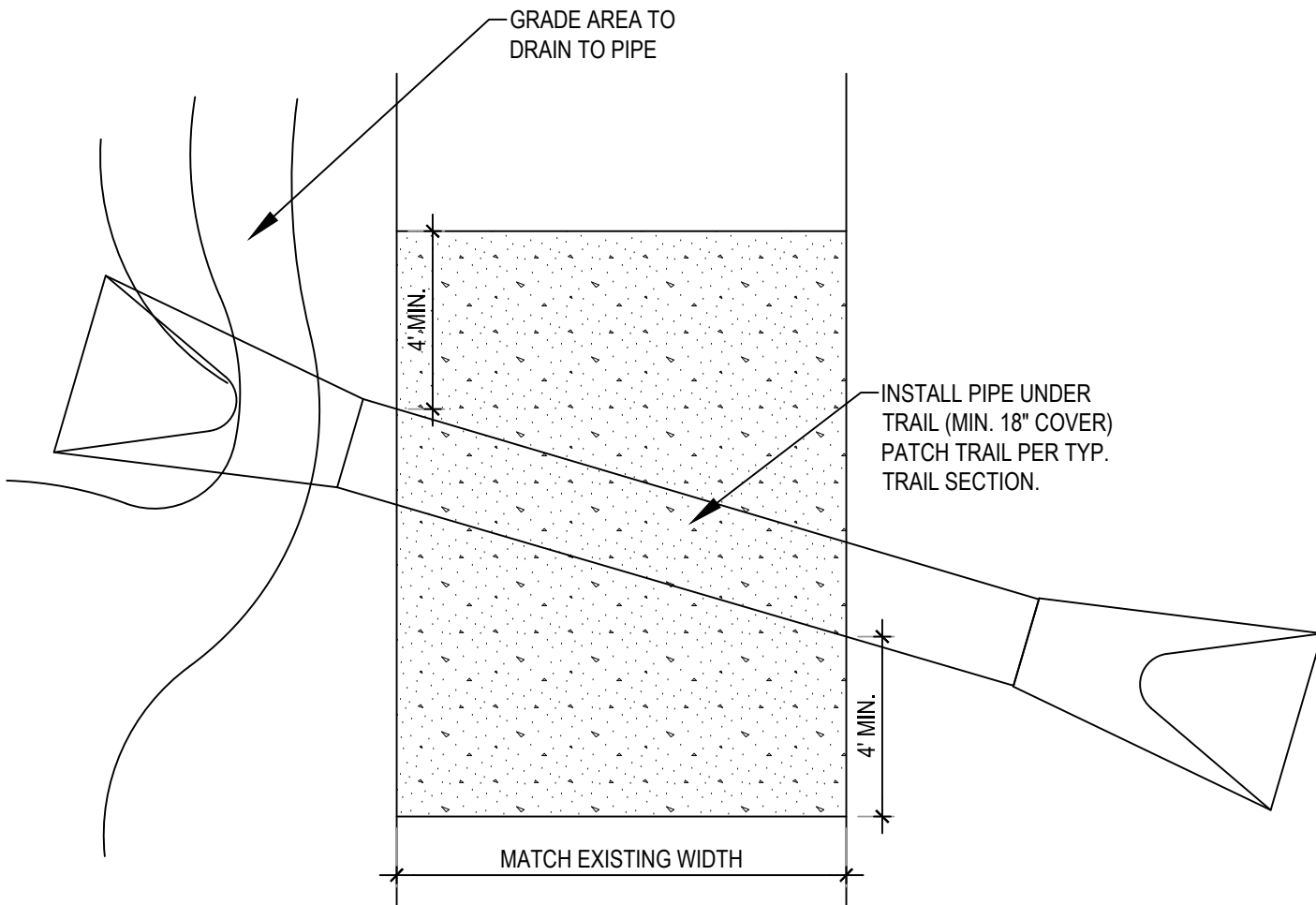
2 CONCRETE EXPANSION JOINT
SCALE: 1 1/2"=1'-0" (LOCATED AT 50' INTERVALS, TYP)



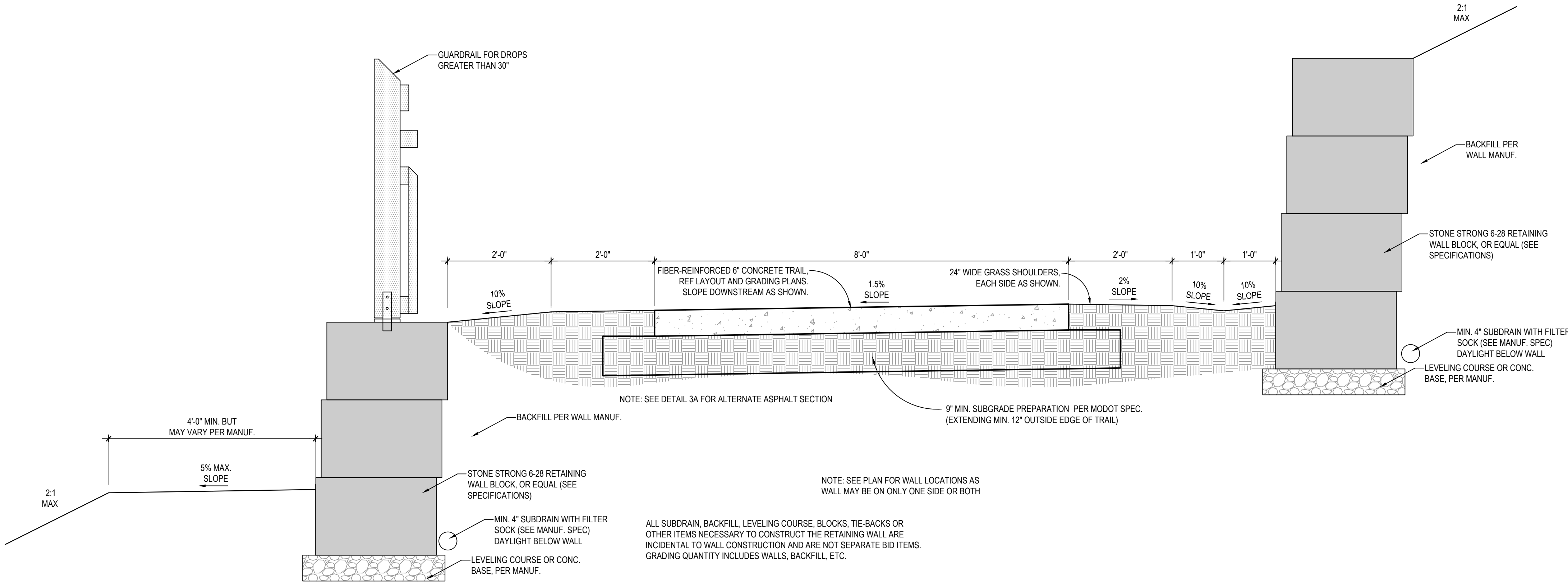
3 TYPICAL TRAIL CROSS-SECTION
SCALE: NONE



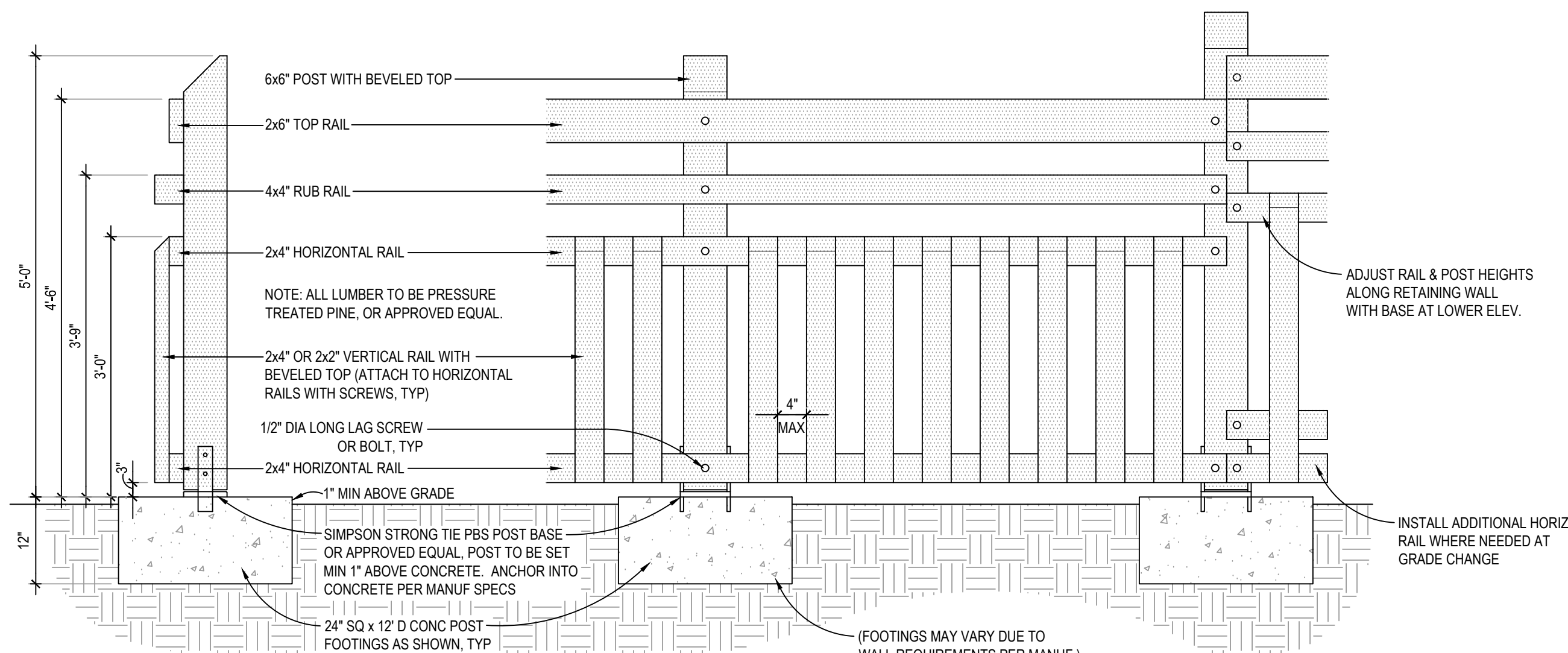
3A ASPHALT BID ALTERNATIVE
NO SCALE



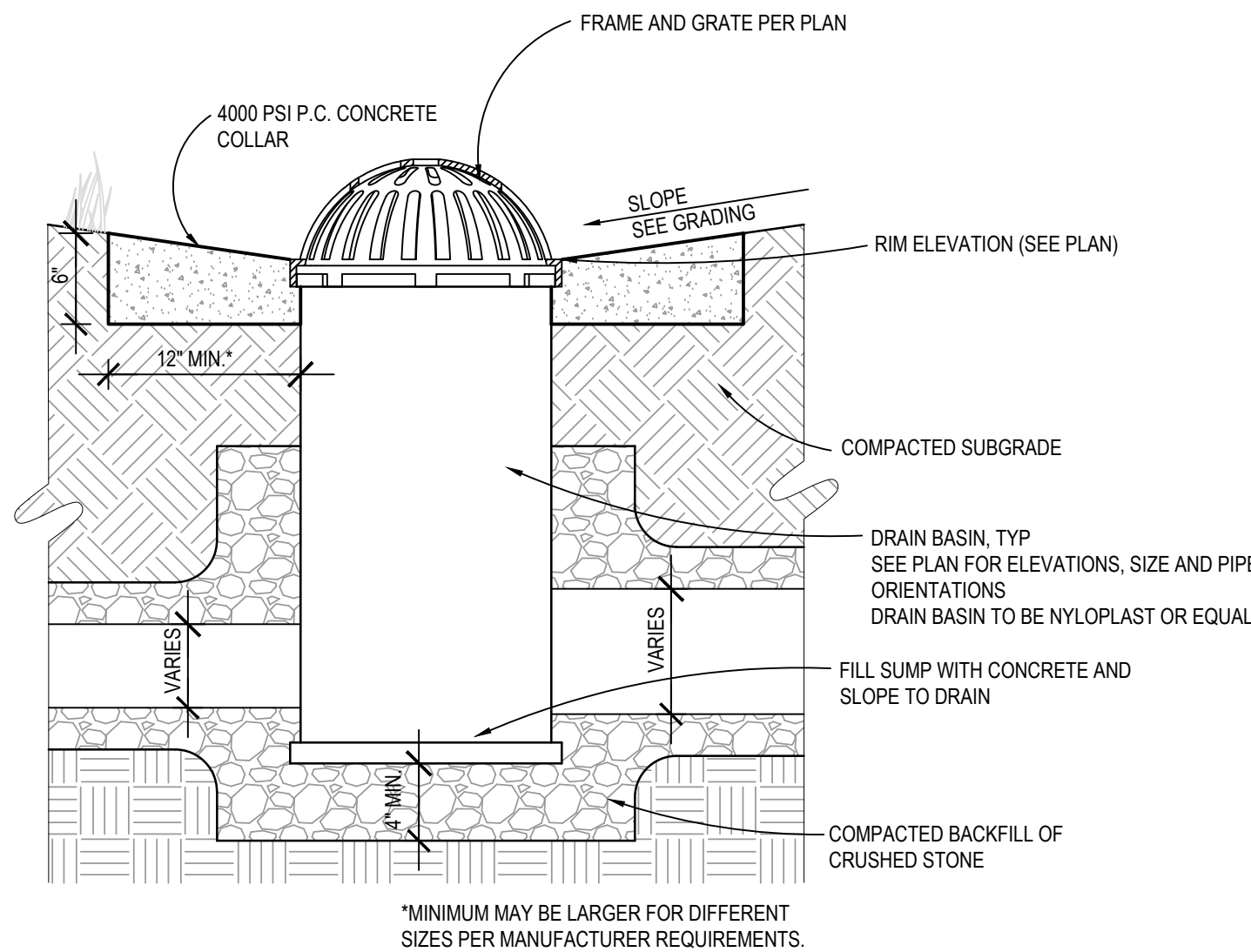
5 SMALL CULVERT REPLACEMENT
SCALE: 1/4"=1'-0"



4 TRAIL CROSS-SECTION WITH WALL
SCALE: 3/4"=1'-0"



6 WOODEN GUARDRAIL
SCALE: 3/4"=1'-0"



7 AREA INLET
NO SCALE