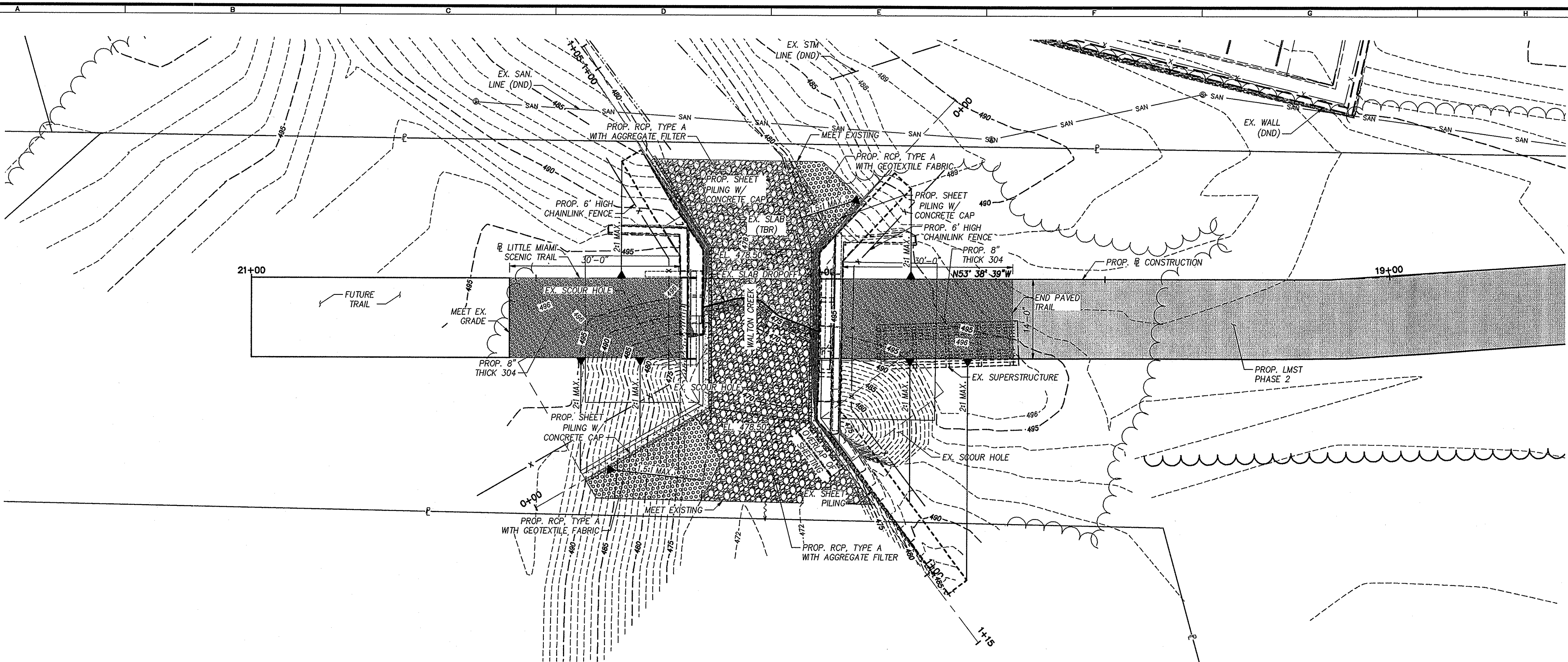
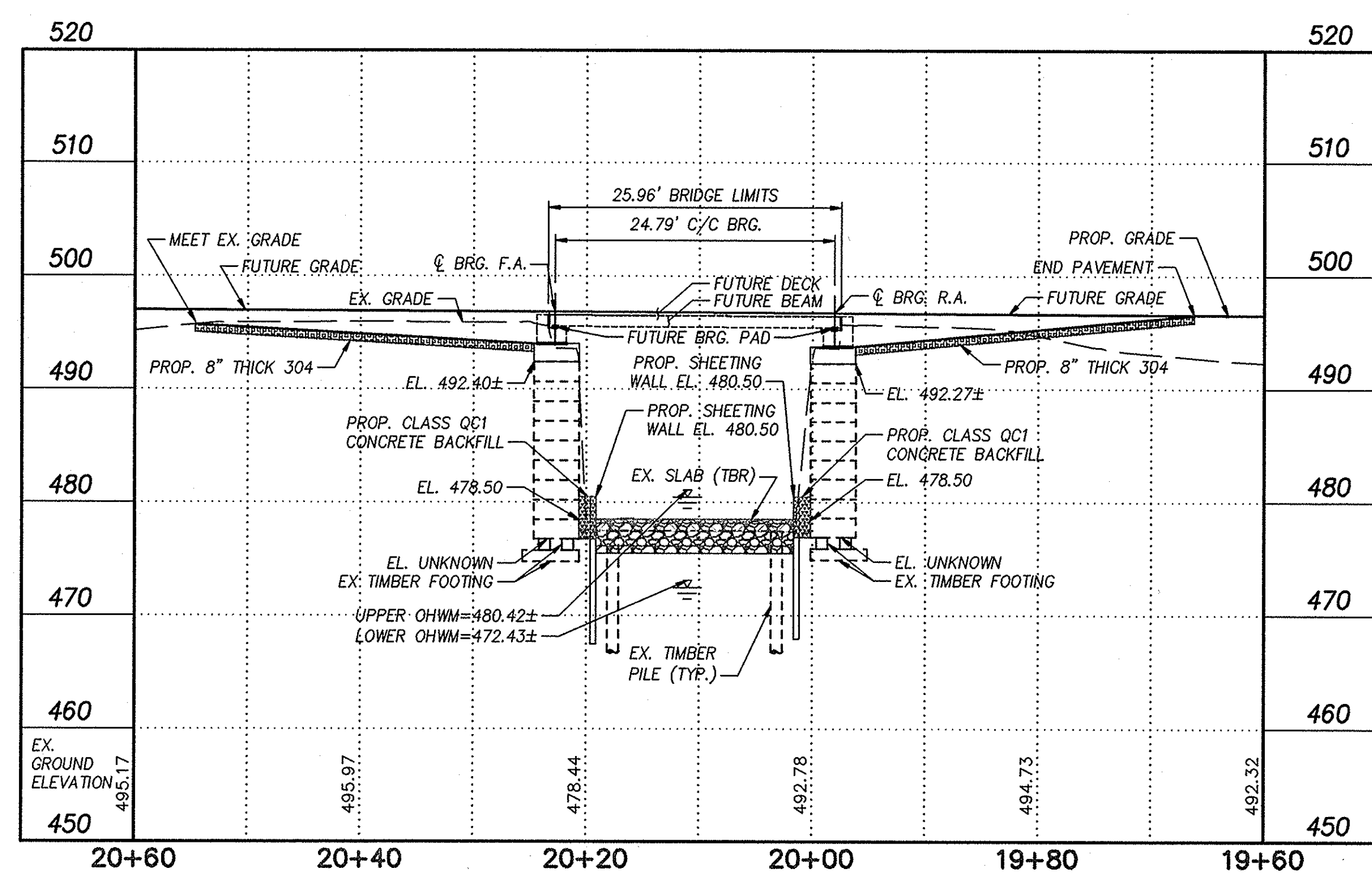




PLAN



PROFILE

NOTES:

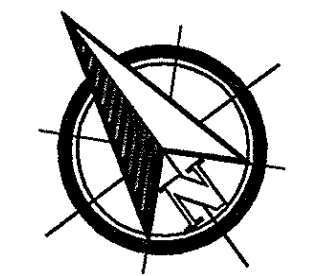
1. UPPER ORDINARY HIGH WATER MARK INDICATES ORDINARY HIGH WATER MARK ON UPSTREAM SIDE PRIOR TO SLAB DROPOFF. LOWER ORDINARY HIGH WATER MARK INDICATES ORDINARY HIGH WATER MARK ON DOWNSTREAM SIDE AFTER SLAB DROPOFF.
2. THE CONTRACTOR SHALL PLACE THE PROPOSED 6' HIGH CHAINLINK FENCE IN A METHOD TO PREVENT PEDESTRIANS TO ACCESS TO THE FRONT FACE OF ABUTMENTS.
3. REMOVE ALL TREES WITHIN CONSTRUCTION LIMITS.

LEGEND:

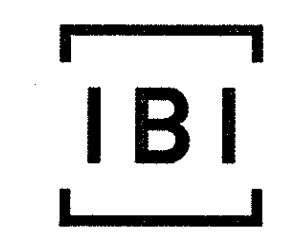
- PROP. CLASS CQ1 CONCRETE BACKFILL
- PROP. LOW STRENGTH MORTAR BACKFILL
- PROP. LMST PHASE 2
- PROP. ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER
- PROP. ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC
- PROP. 8" THICK 304
- PROP. STORM CROSSING
- EX. SLAB (TO BE REMOVED)

1 REVISED 9/3/19

41
56



GRAPHIC SCALE
(IN FEET)
1 inch = 10 ft.



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STAMP:



HAMILTON COUNTY
LMST PHASE 2
COLUMBIA TOWNSHIP, OHIO

DESIGN	DRAFT	CHECK
MJT	MJT	SRB

IBI NO.: 116492

DATE: JUNE, 2019

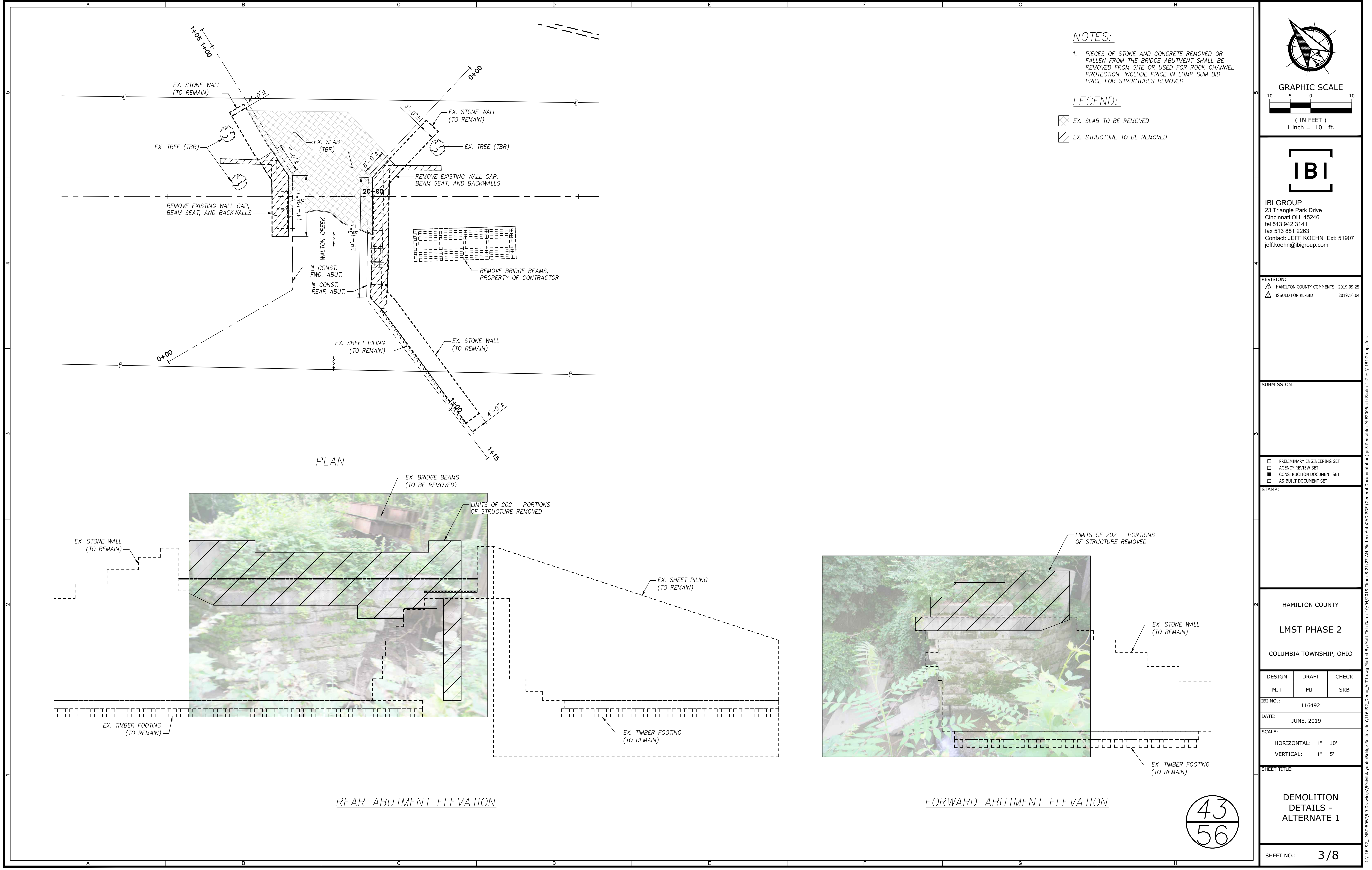
SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 10'

SHEET TITLE:

SITE PLAN AND
PROFILE -
ALTERNATE 1

SHEET NO.: 1/8

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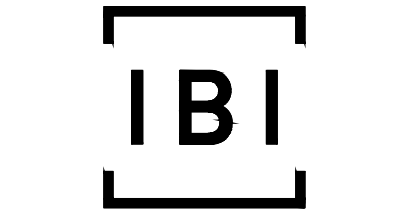
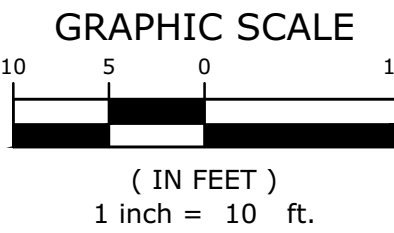
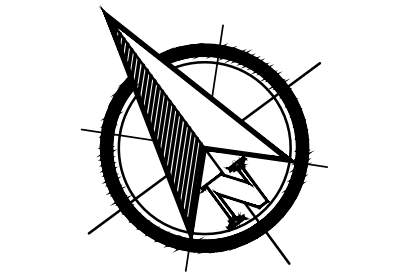


NOTES:

- PIECES OF STONE AND CONCRETE REMOVED OR FALLEN FROM THE BRIDGE ABUTMENT SHALL BE REMOVED FROM SITE OR USED FOR ROCK CHANNEL PROTECTION. INCLUDE PRICE IN LUMP SUM BID PRICE FOR STRUCTURES REMOVED.

LEGEND:

- EX. SLAB TO BE REMOVED
- EX. STRUCTURE TO BE REMOVED



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LMST PHASE 2
COLUMBIA TOWNSHIP, OHIO

DESIGN	DRAFT	CHECK
MJT	MJT	SRB

IBI NO.: 116492

DATE: JUNE, 2019

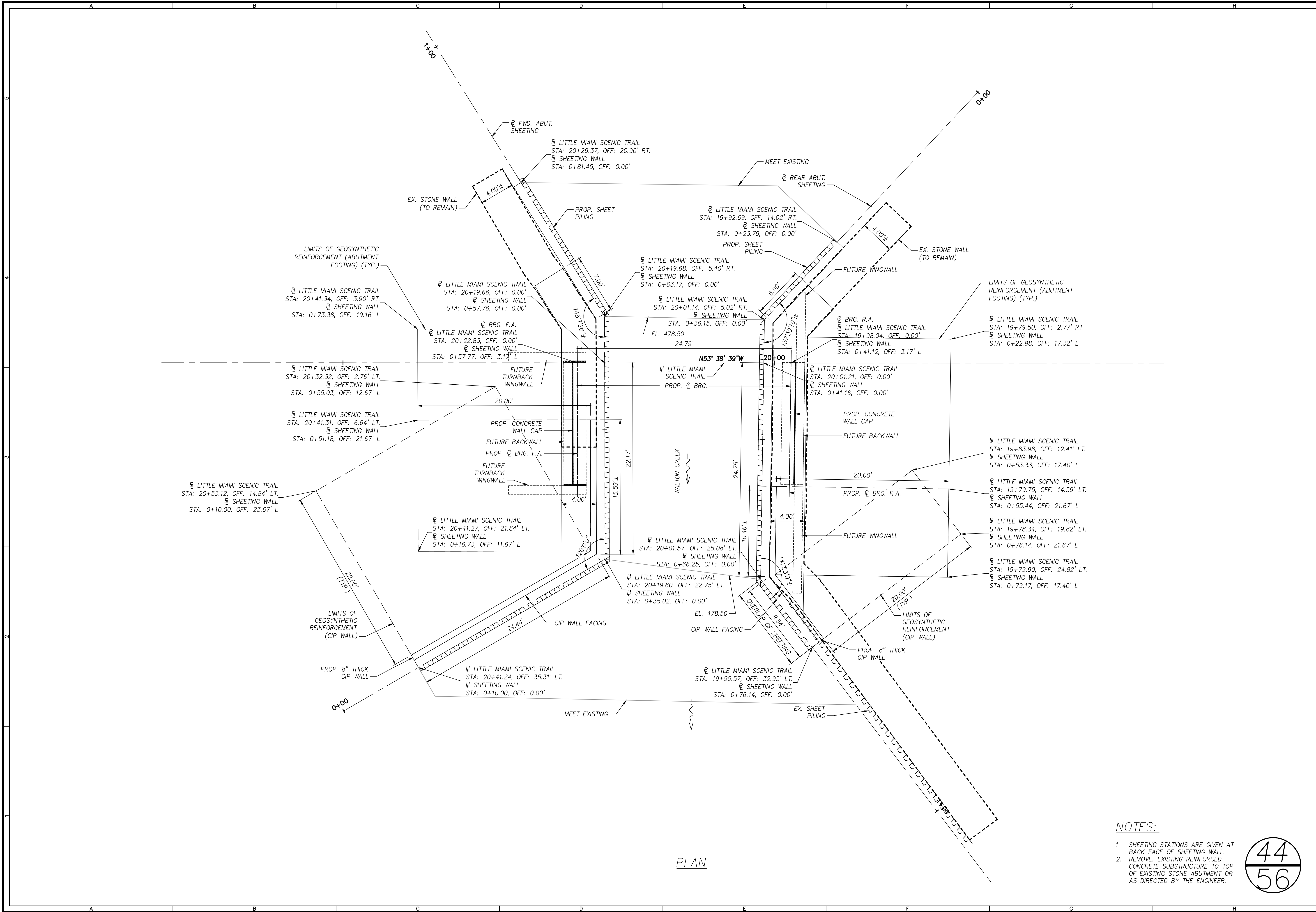
SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SHEET TITLE:

DEMOLITION
DETAILS -
ALTERNATE 1

SHEET NO.: 3/8

43
56



GRAPHIC SCALE
(IN FEET)
1 inch = 5 ft.

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STAMP:

HAMILTON COUNTY

LMST PHASE 2

COLUMBIA TOWNSHIP, OHIO

DESIGN	DRAFT	CHECK
MJT	MJT	SRB

IBI NO.: 116492

DATE: JUNE, 2019

SCALE: HORIZONTAL: 1" = 5'

SHEET TITLE:

FOUNDATION LAYOUT PLAN - ALTERNATE 1

SHEET NO.: 4/8

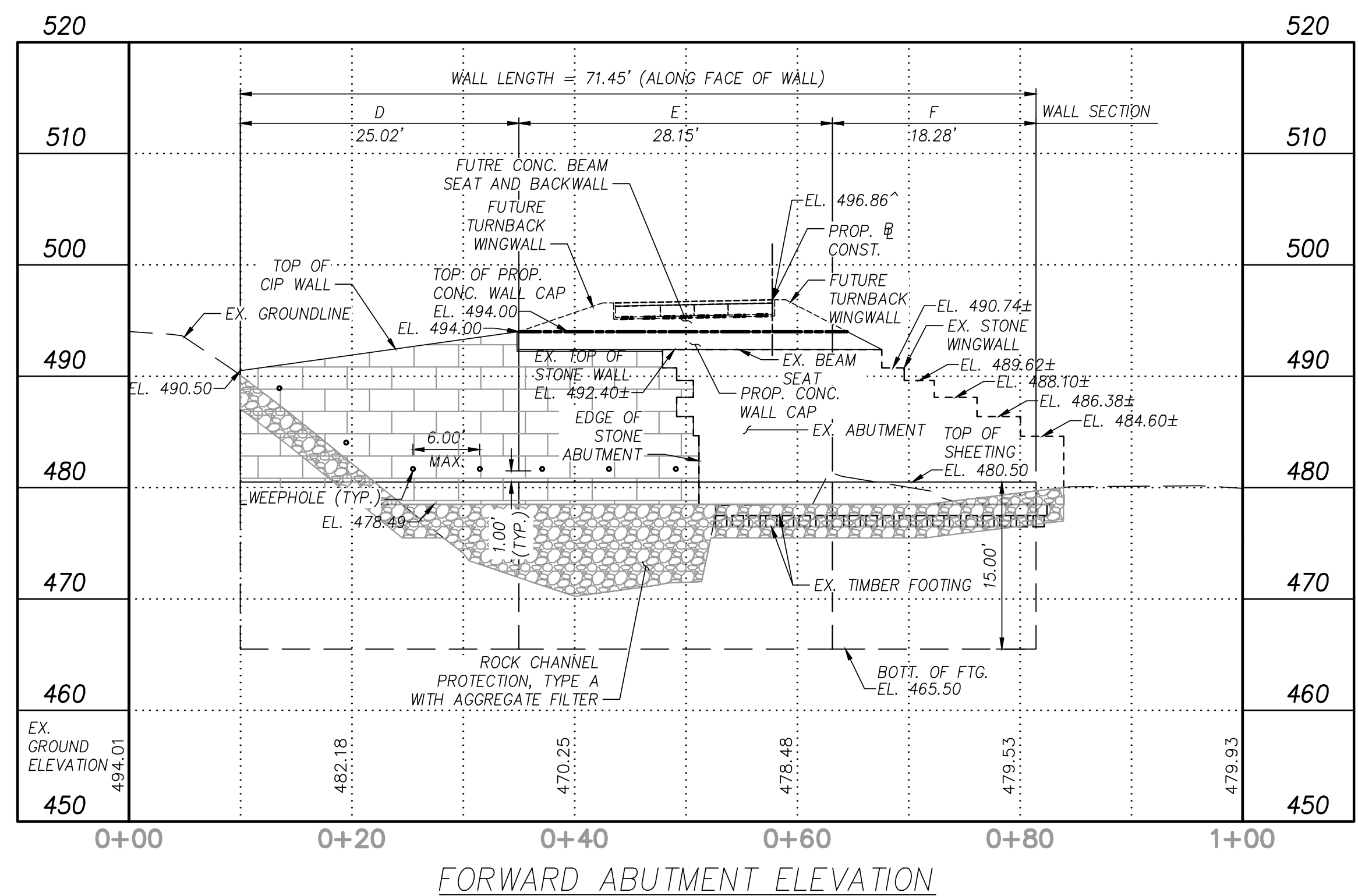
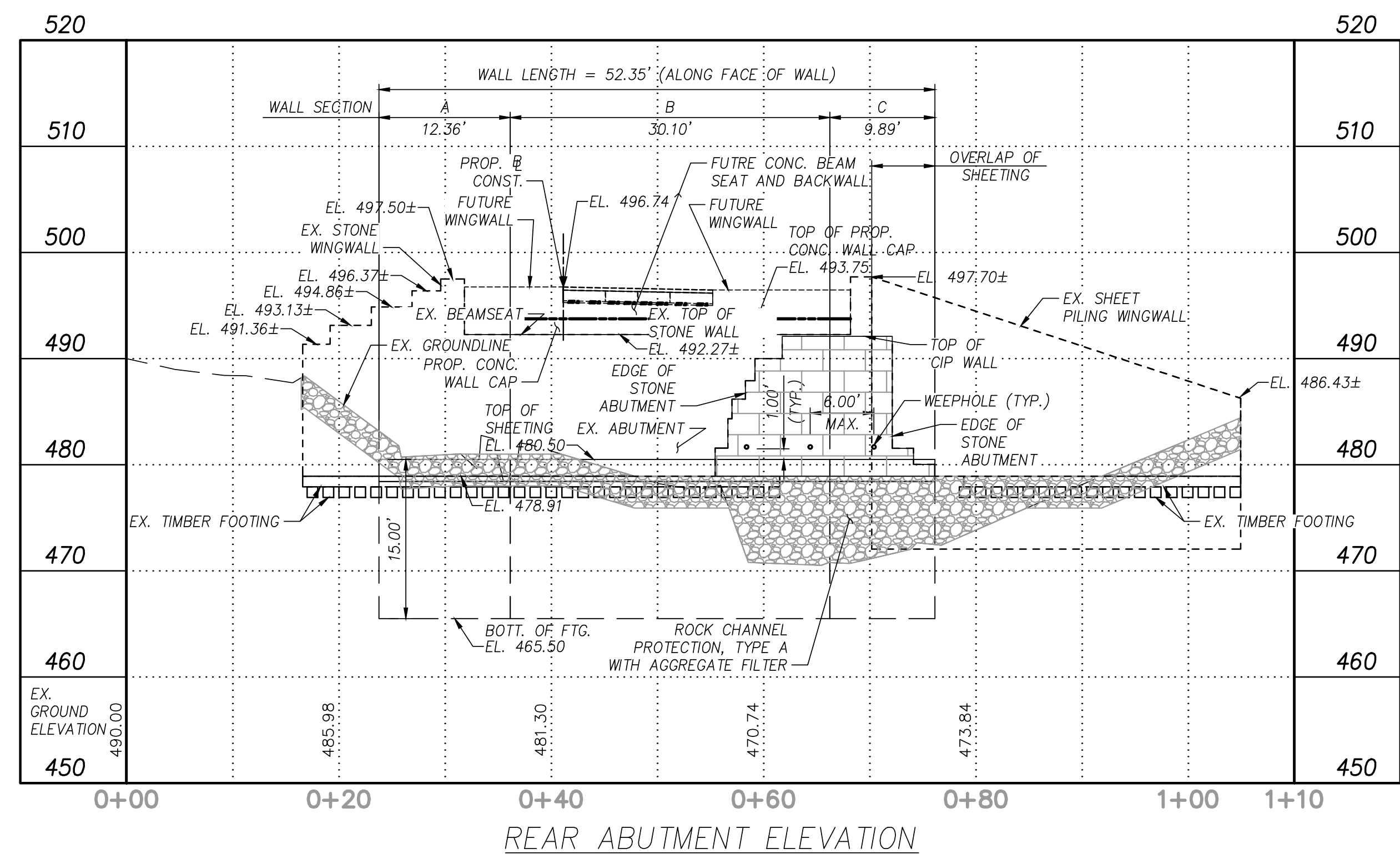
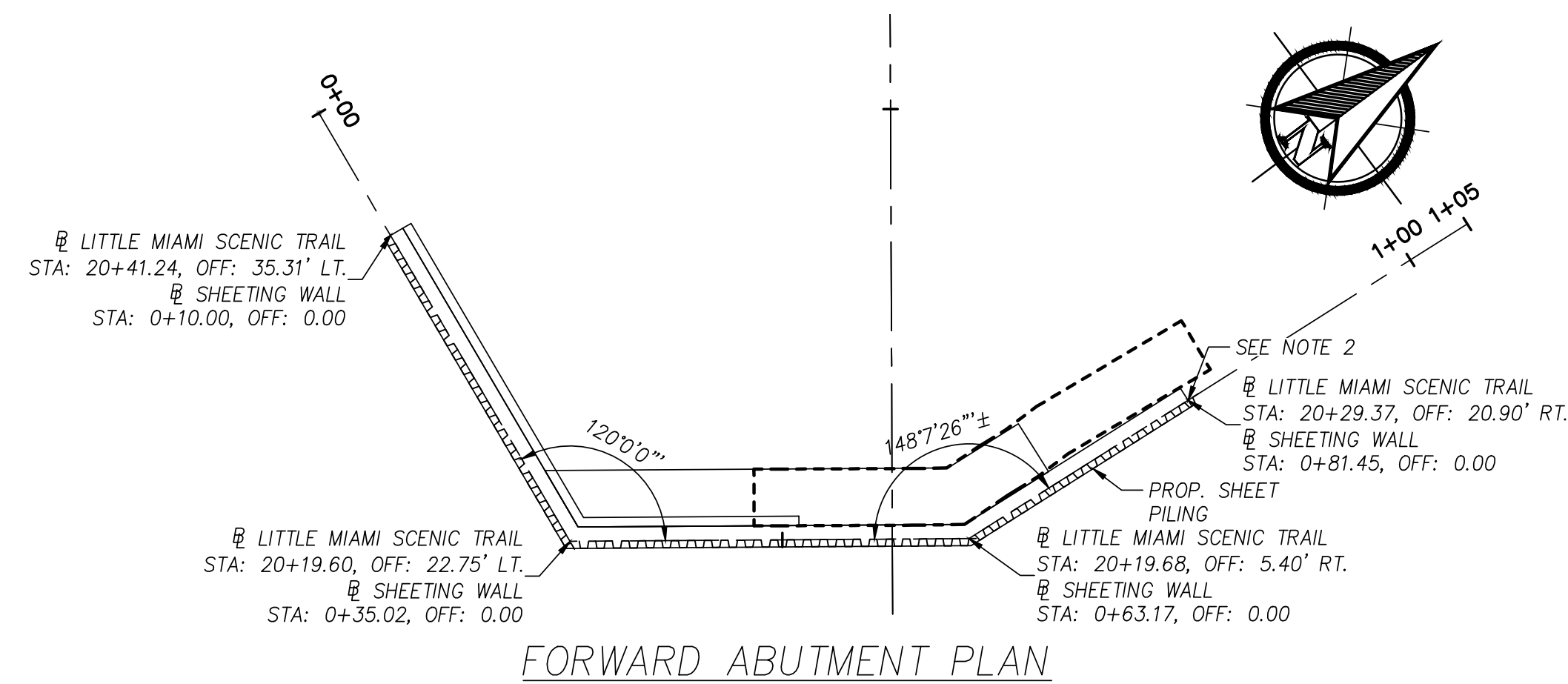
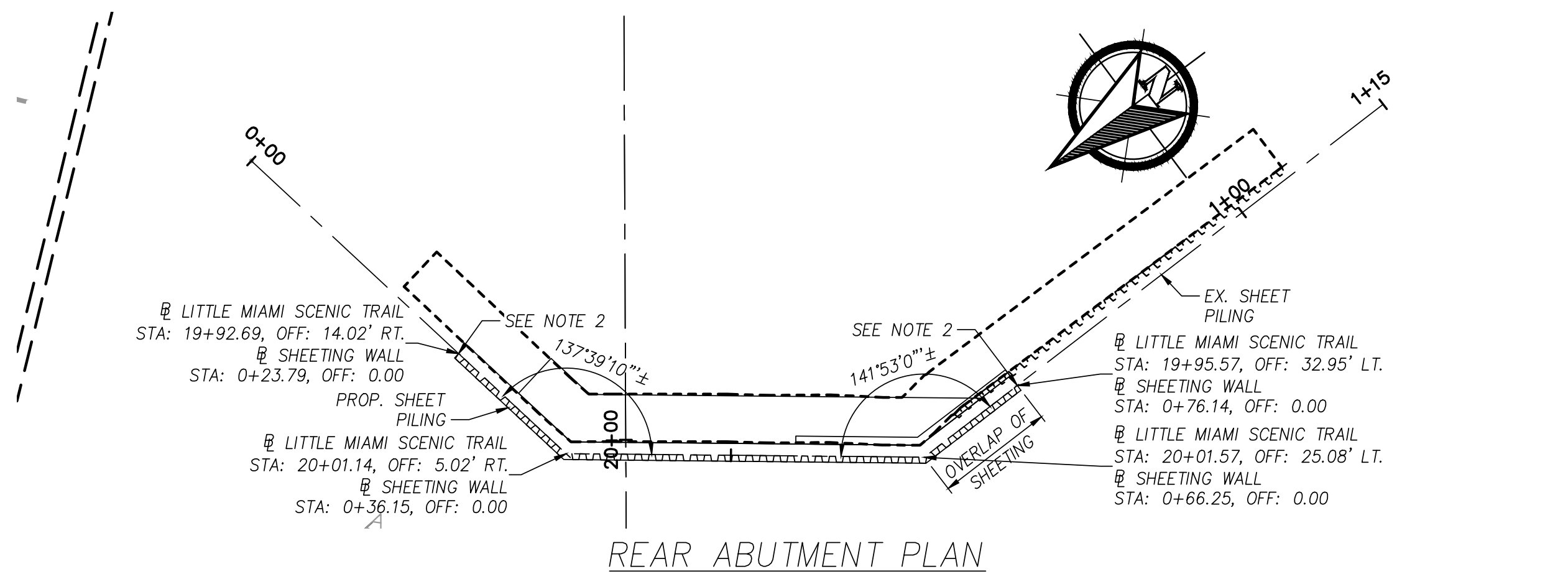
NOTES:

- SHEETING STATIONS ARE GIVEN AT BACK FACE OF SHEETING WALL.
- REMOVE EXISTING REINFORCED CONCRETE SUBSTRUCTURE TO TOP OF EXISTING STONE ABUTMENT OR AS DIRECTED BY THE ENGINEER.

44

56

J:\116492_LMST-50W\5.9 Drawings\50w\layouts\Bridge Restoration\116492_SheetPlan_ALT1.dwg Plotted By:Matt Tish Date: 10/04/2019 Time: 8:21:37 AM Plotter: Autocad PDF (General Documentation).pc3 Penable: M-E2006.ctb Scale: 1:2 ~ © IBI Group, Inc.

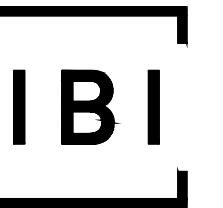
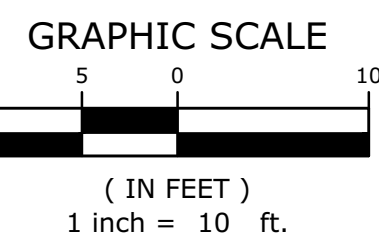


SHORING WALL							
SECTION	LITTLE MIAMI SCENIC TRAIL STATION*		LENGTH	LITTLE MIAMI SCENIC TRAIL OFFSET*		TOTAL SHEETING HEIGHT	SECTION MODULOUS IN/FT
	FROM	TO		FROM	TO		
A	19+92.69	20+01.14 **	12.36'	14.02' RT.	5.02' RT.	15.00	16.00
B	20+01.14 **	20+01.57 **	30.10'	5.02' RT.	25.08' LT.	15.00	16.00
C	20+01.57 **	19+95.57	9.89'	25.08' LT.	32.95' LT.	15.00	16.00
D	20+41.24	20+19.60 **	25.02'	35.31' LT.	22.75' LT.	15.00	16.00
E	20+19.60 **	20+19.68 **	28.15'	22.75' LT.	5.40' RT.	15.00	16.00
F	20+19.68 **	20+29.37	18.28'	5.40' RT.	20.90' RT.	15.00	16.00

* - WALL STATIONS AND OFFSETS ARE GIVEN AT BACK FACE OF WALL.
 ** - INDICATES BEND POINT.
 ^ - ELEVATION GIVEN AT @ BEARING.

NOTES:

- CONTRACTOR SHALL VERIFY SITE CONDITIONS HAVE NOT CHANGED FROM DESIGN DATE PRIOR TO INSTALLING SPECIFIED SHEETING.
- CONTRACTOR SHALL TURN BACK SHEET PILING TO CONTAIN CLASS QCI CONCRETE AS NECESSARY.
- CONTRACTOR SHALL PLACE ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER IN FRONT OF PROPOSED SHEET PILING PRIOR TO BACKFILLING WITH CLASS QCI CONCRETE.
- FUTURE BEAM SEAT, BACKWALL, AND WINGWALLS NOT SHOWN IN PLAN VIEWS FOR CLARITY.
- HORIZONTALLY SPACE CONSTRUCTION JOINTS ARE PERMISSIBLE BUT THERE SHALL BE NO MORE THAN 2 PER ABUTMENT.
- VERTICALLY SPACED CONSTRUCTION JOINTS ARE PERMISSIBLE AS APPROVED BY THE ENGINEER.



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STAMP:

HAMILTON COUNTY

LMST PHASE 2

COLUMBIA TOWNSHIP, OHIO

DESIGN	DRAFT	CHECK
MJT	MJT	SRB

IBI NO.: 116492

DATE: JUNE, 2019

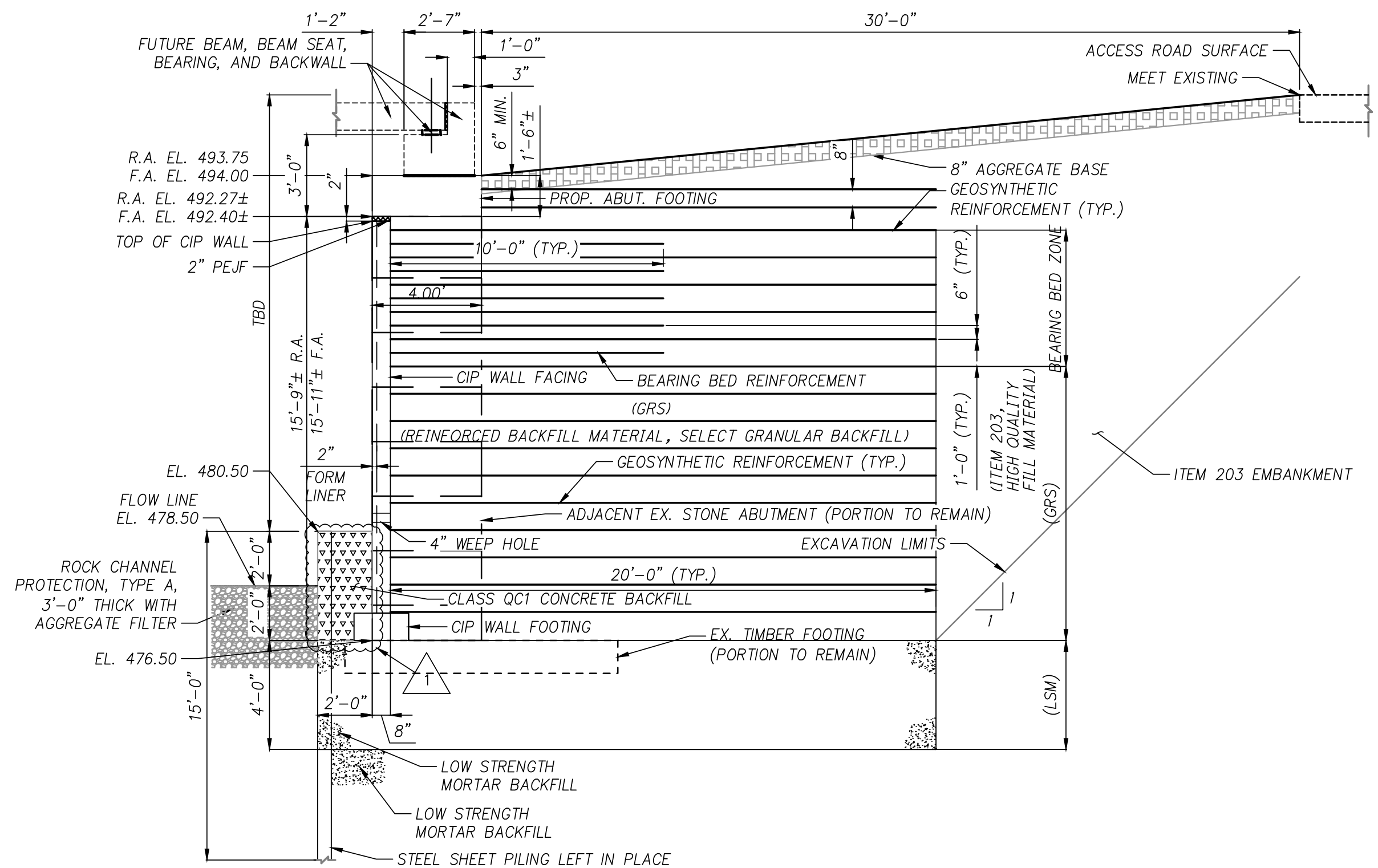
SCALE:
 HORIZONTAL: 1" = 10'
 VERTICAL: 1" = 10'

SHEET TITLE:

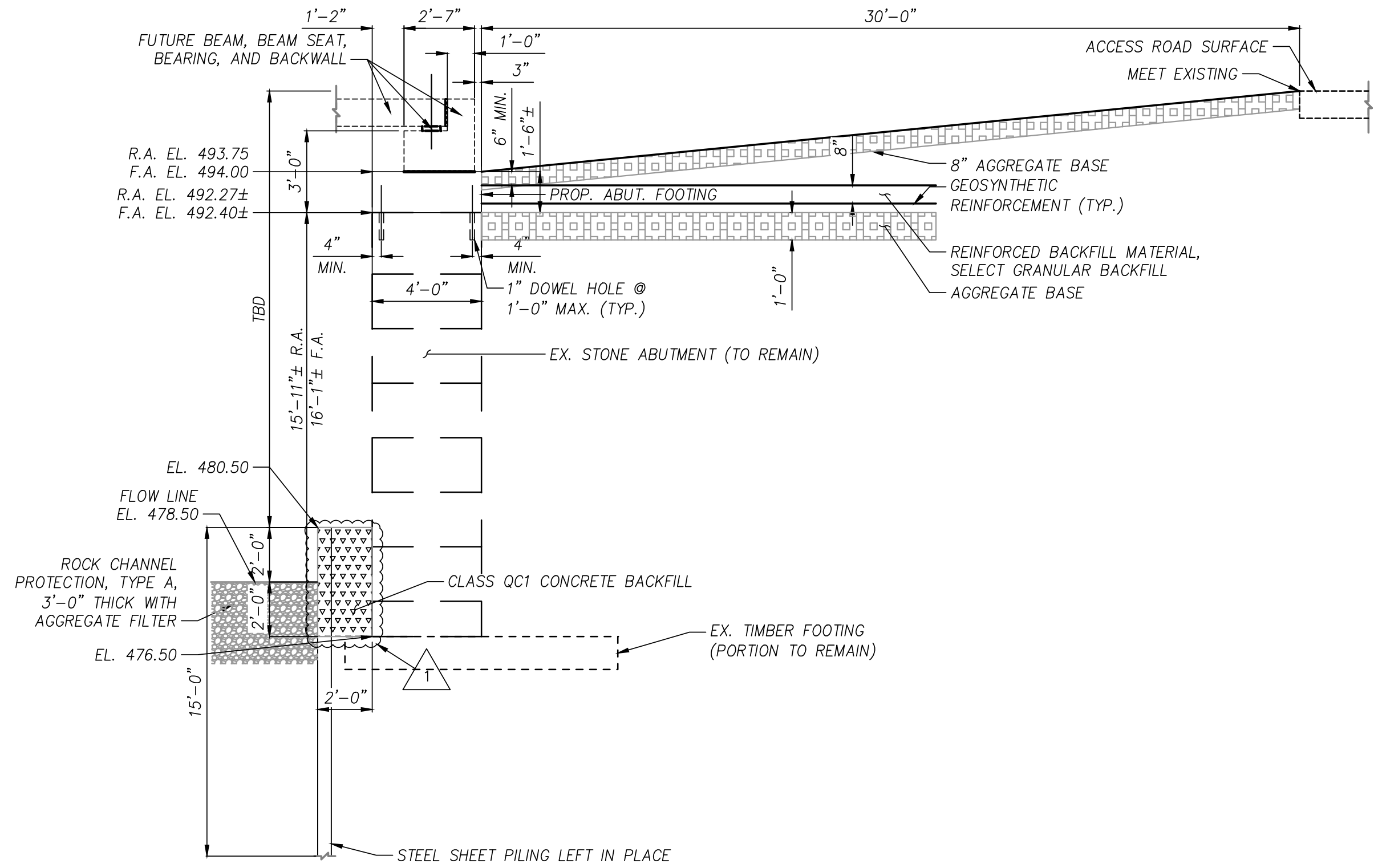
**SHEETING
 ELEVATION -
 ALTERNATE 1**

SHEET NO.: 5/8

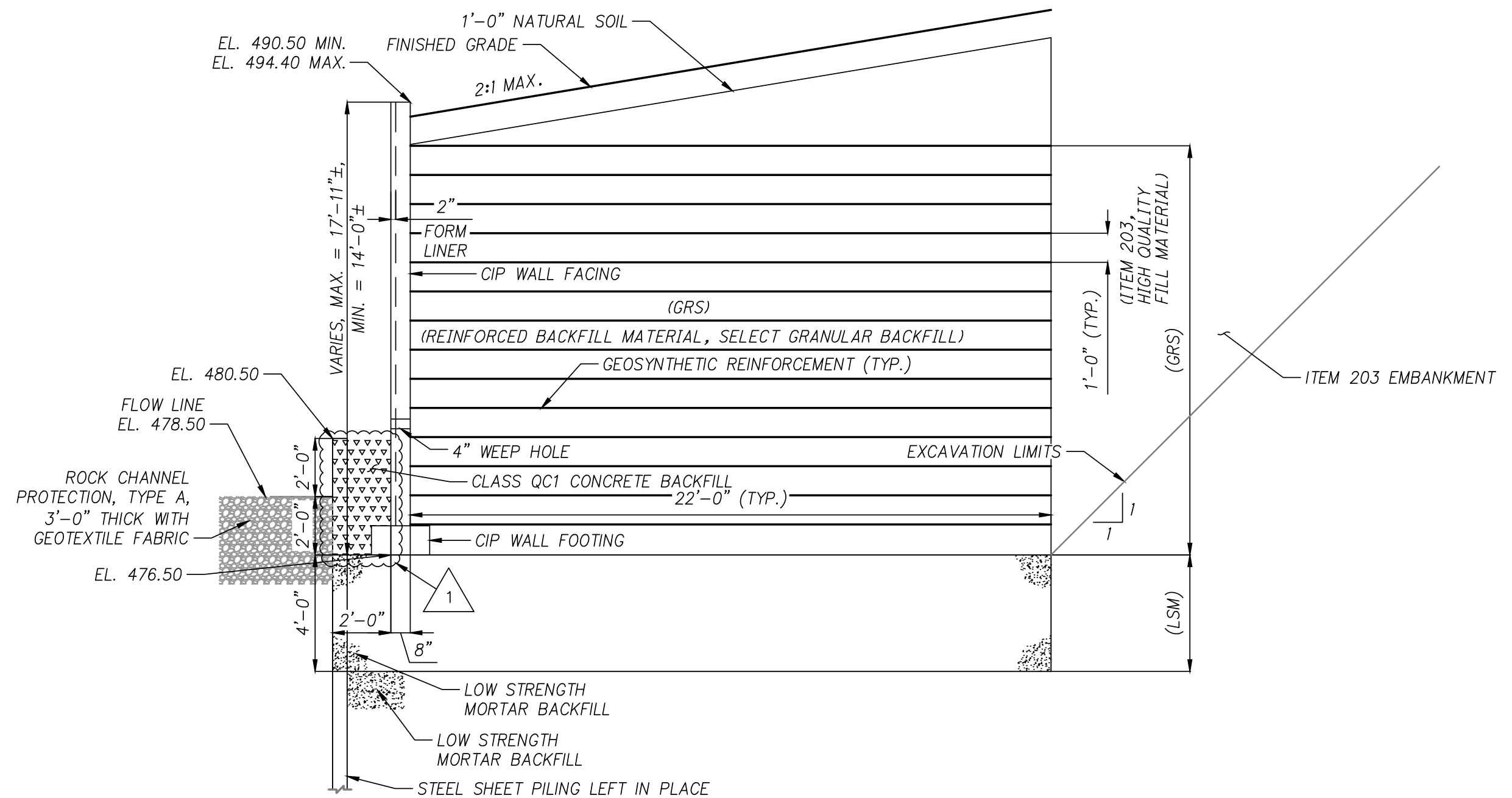
45
56



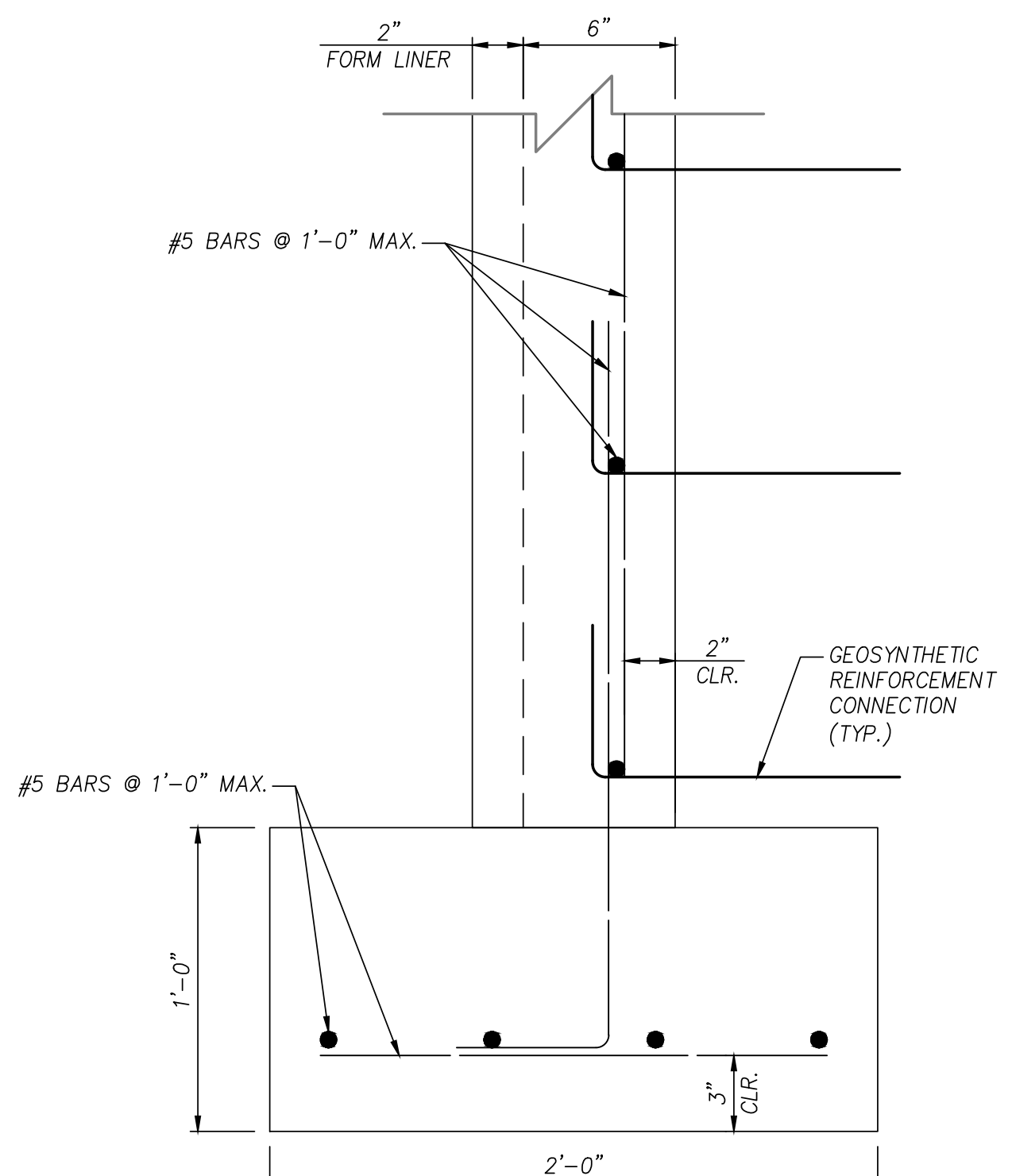
ABUTMENT SECTION
LIMITS OF PROP. 8" THICK CIP WALL



ABUTMENT SECTION
ON EXISTING STONE WALL



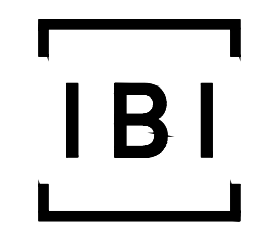
WINGWALL SECTION



CIP WALL FACING DETAIL

NOTES:

- ALL STEEL SHALL BE ASTM A709 GRADE 50.
- CONTRACTOR SHALL VERIFY SITE CONDITIONS HAVE NOT CHANGED FROM DESIGN DATE PRIOR TO INSTALLING SPECIFIED SHEETING.
- SHEETING WALL STATIONS ARE GIVEN AT BACK FACE OF SHEETING WALL.
- AT THE DISCRETION OF THE CONTRACTOR, A CONNECTION SUCH AS A BODKIN BAR MAY BE USED IN LIEU OF FULL LENGTH GRID. ALL CONNECTIONS SHALL BE MADE PER THE MANUFACTURER'S RECOMMENDATIONS.
- GEOSYNTHETIC REINFORCEMENT SHALL BE EMBEDDED IN ABUTMENT FOOTING PER MANUFACTURER'S SPECIFICATIONS.



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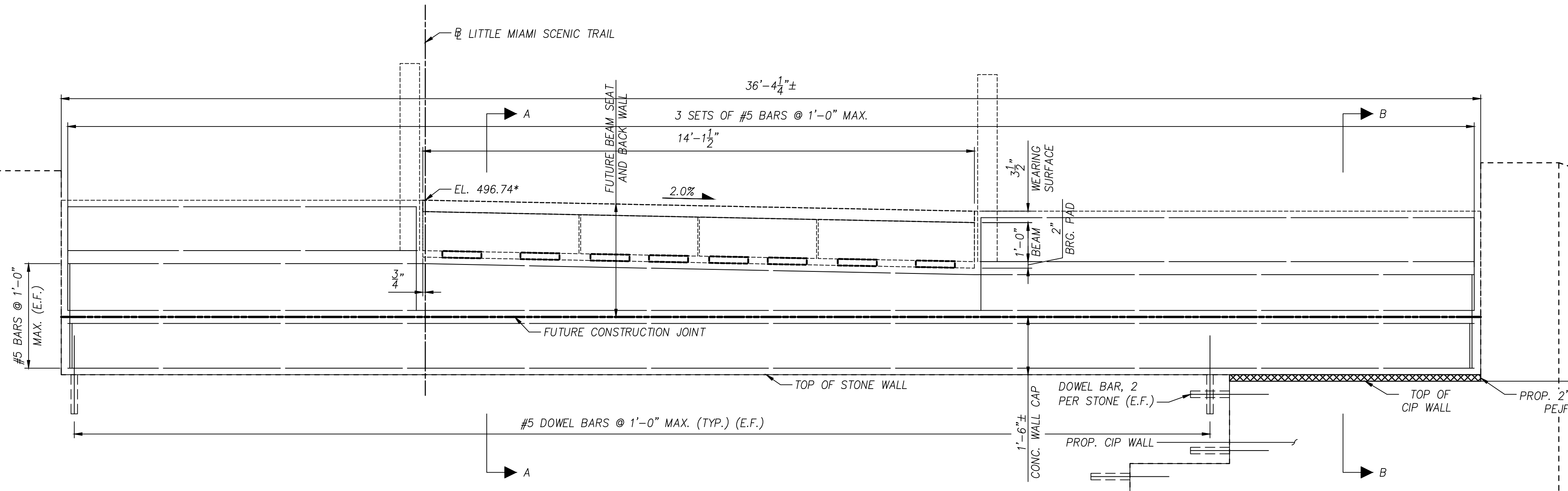
STAMP:

HAMILTON COUNTY
LMST PHASE 2
COLUMBIA TOWNSHIP, OHIO

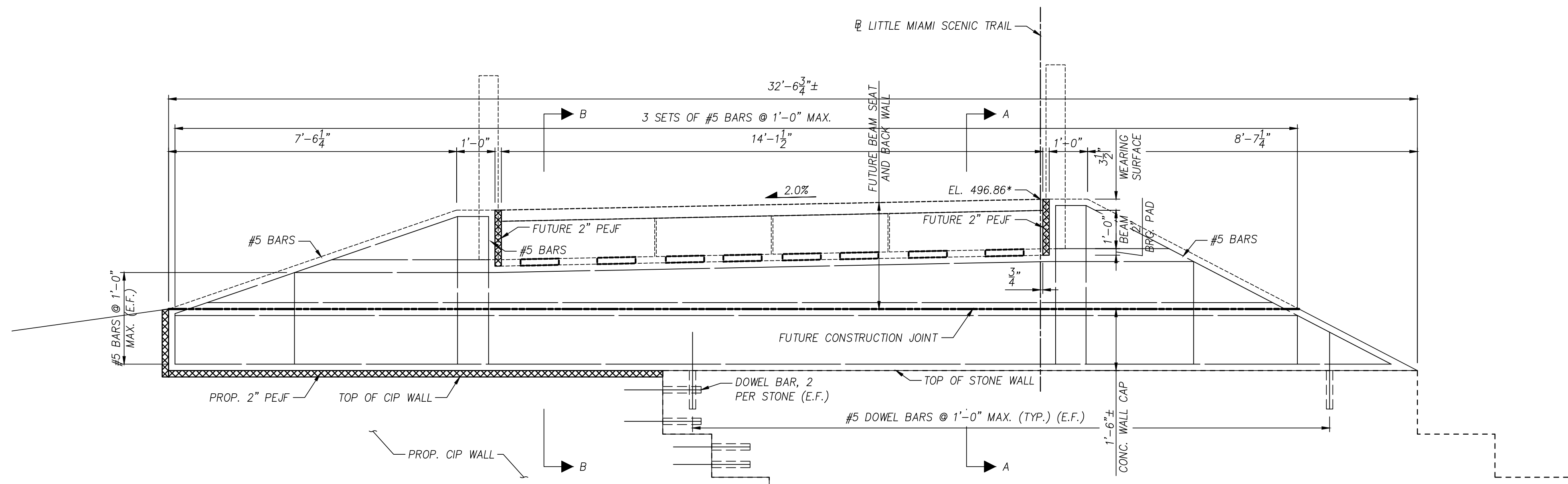
DESIGN	DRAFT	CHECK
MJT	MJT	SRB
IBI NO.: 116492		
DATE: JUNE, 2019		
SCALE:		
HORIZONTAL: NTS		
VERTICAL: NTS		
SHEET TITLE:		

SHEETING WALL
DETAILS -
ALTERNATE 1

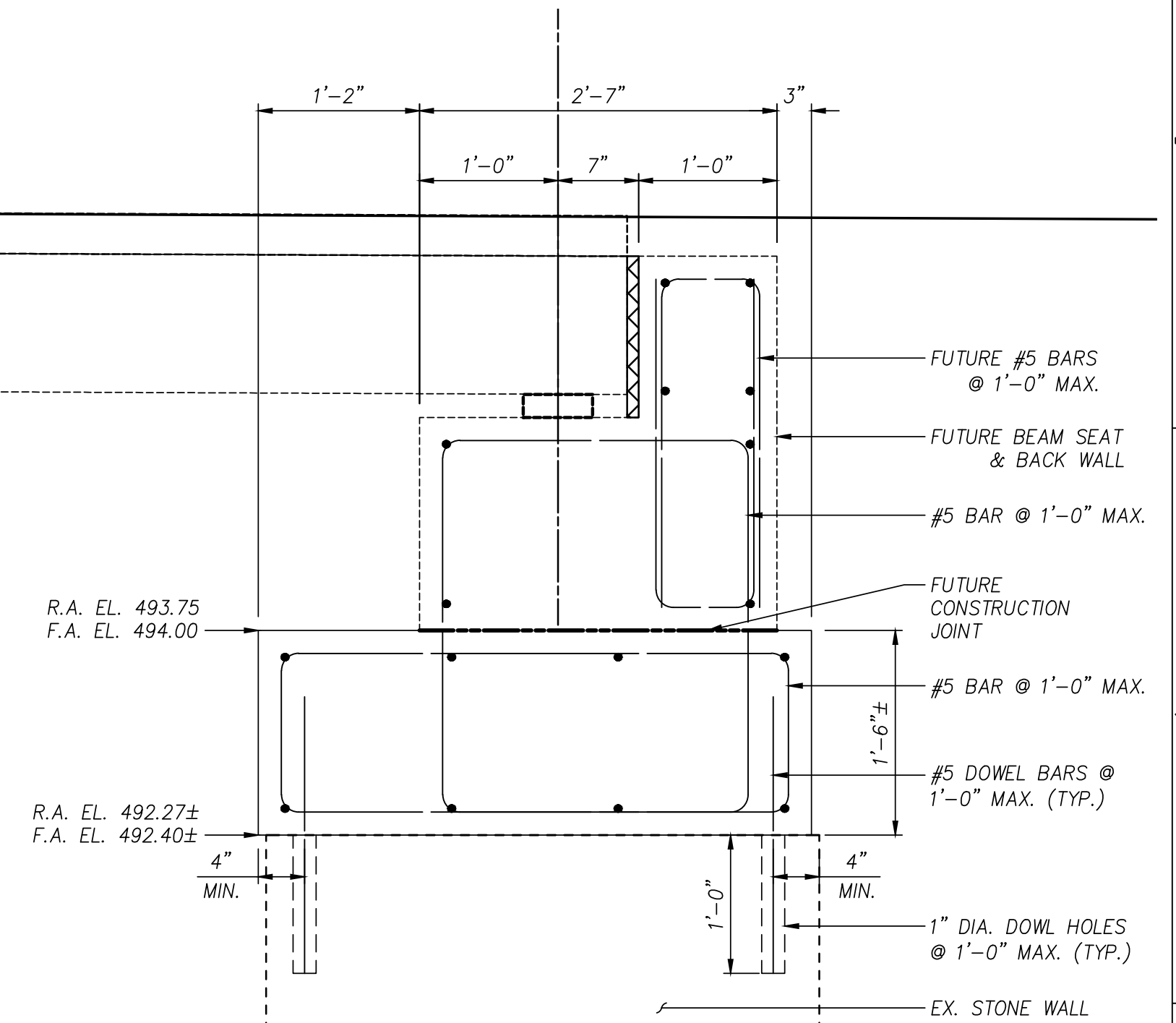
SHEET NO.: 6/8



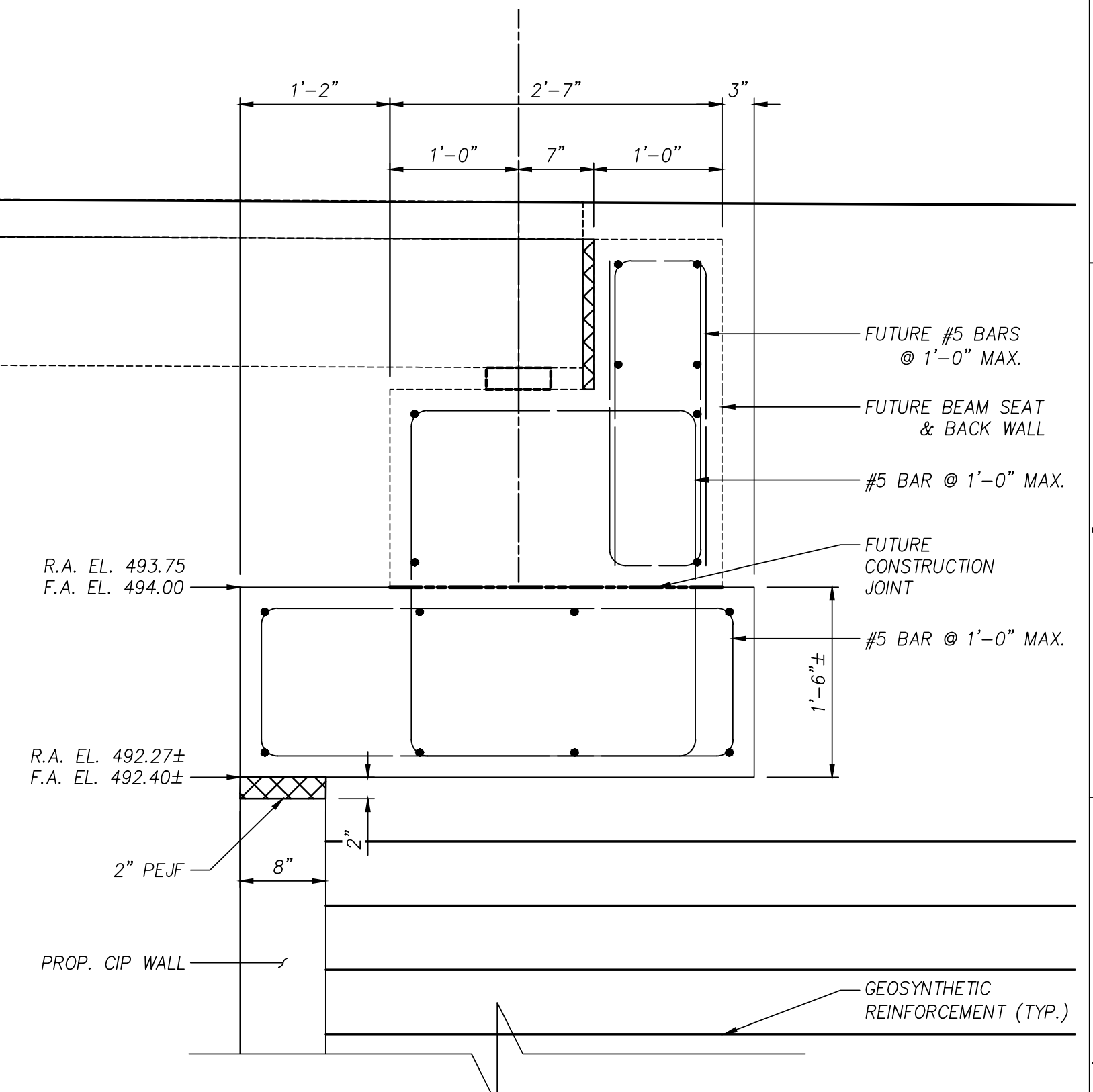
REAR ABUTMENT ELEVATION



FORWARD ABUTMENT ELEVATION



SECTION A-A
(ON EX. STONE WALL)

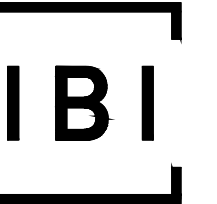


SECTION B-B
(LIMITS OF PROP. 8" THICK CIP WALL)

NOTES:

* ELEVATION GIVEN AT $\odot$ BEARING

47
56



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HAMILTON COUNTY

LMST PHASE 2

COLUMBIA TOWNSHIP, OHIO

DESIGN	DRAFT	CHECK
MJT	MJT	SRB

IBI NO.: 116492

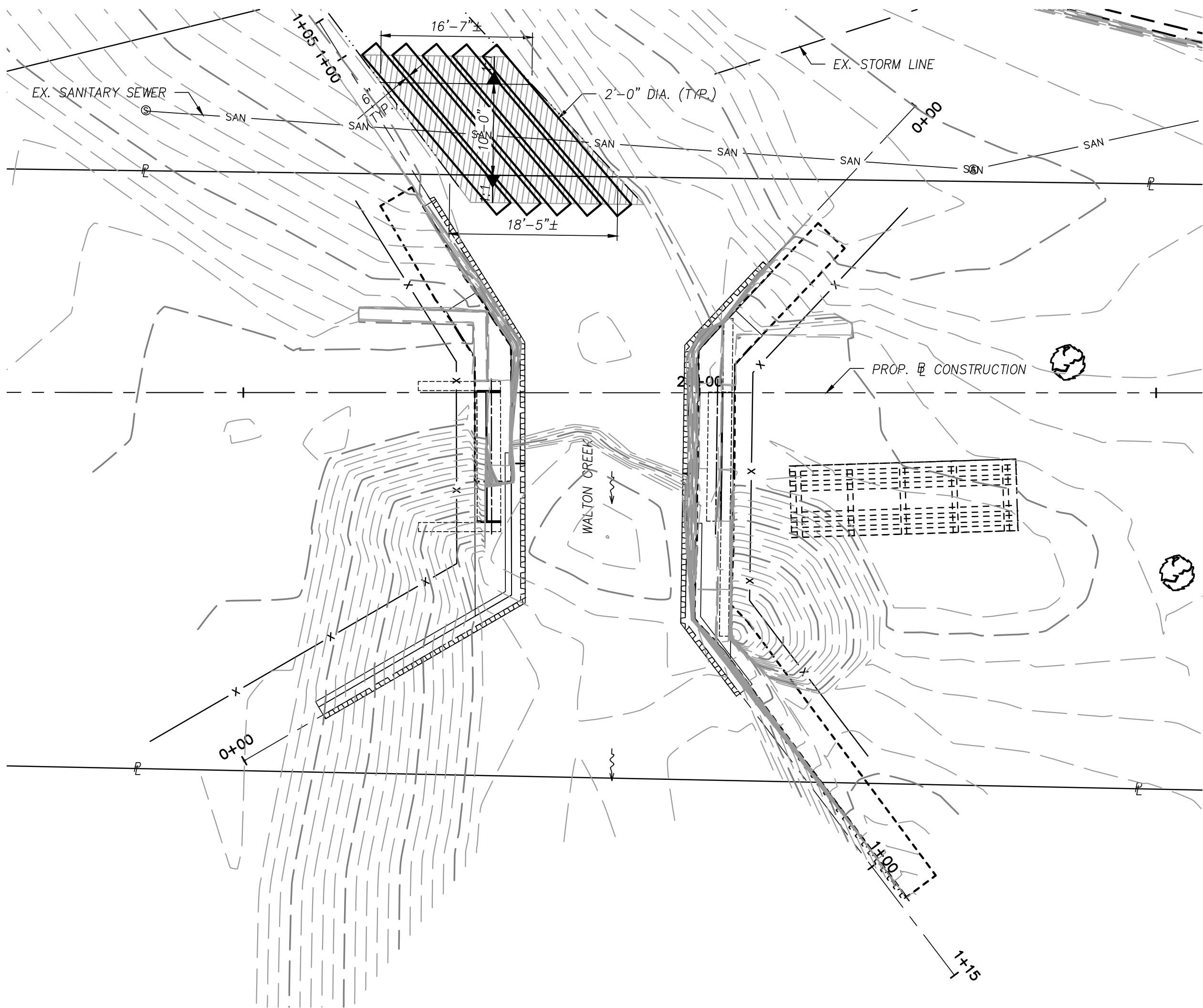
DATE: JUNE, 2019

SCALE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 2'

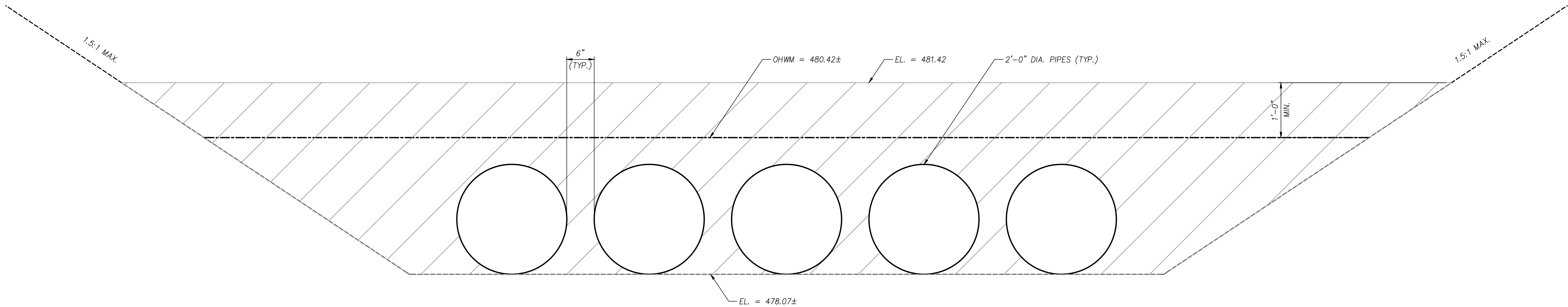
SHEET TITLE:

STRUCTURAL
DETAILS -
ALTERNATE 1

SHEET NO.: 7/8



PLAN



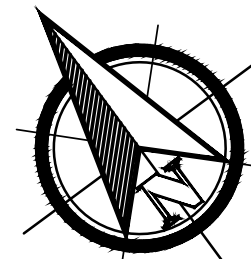
STREAM CROSSING DETAIL

NOTES:

1. FOR ILLUSTRATIVE PURPOSES ONLY.
2. STREAM CROSSING LAYOUT AND APPROACH SHALL NOT IMPEDE ADJACENT STORM OUTLET.
3. ALL DAMAGE TO THE STORM OUTLET OR SANITARY SEWER SHALL BE PAID FOR BY THE CONTRACTOR AT NO EXPENSE TO THE PROJECT.

LEGEND:

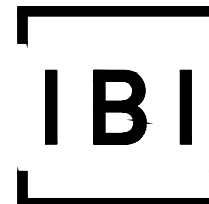
PROP. STREAM CROSSING



GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.



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LMST PHASE 2
COLUMBIA TOWNSHIP, OHIO

DESIGN	DRAFT	CHECK
EEW	EEW	JBK

IBI NO.: 116492

DATE: JUNE, 2019

SCALE:
HORIZONTAL: 1" = 10'

SHEET TITLE:

STREAM CROSSING
DETAIL -
ALTERNATE 1

SHEET NO.: 8/8

48
56