

**STATE ROAD 19**  
**CORRIDOR IMPROVEMENTS**  
**(PA7663)**

PROJECT:

**RETAINING WALL**  
**STRUCTURAL PLANS**

SHEET TITLE:

DRAWN BY:  
**NI**  
DESIGNED BY:  
**SFL**  
PM REVIEW:  
**RAN**  
QA/QC REVIEW:  
**DSK**  
DATE:  
**03/02/23**  
SEAL:

SIGNATURE:  
  
DATE:  
**03/02/2023**

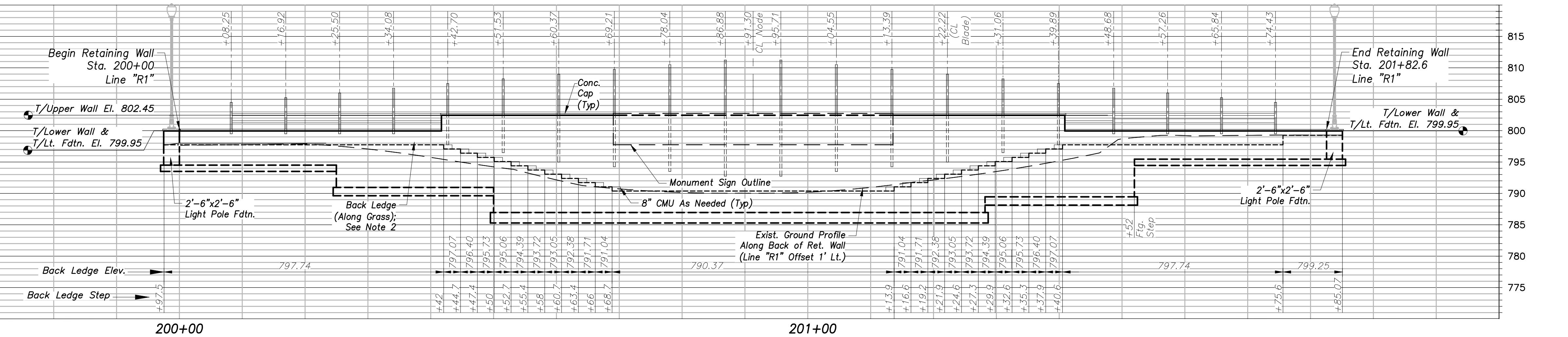
SCALE:  
HORZ: 1" = 10'  
VERT: 1" = 10'

ACI JOB #

**20-1114**

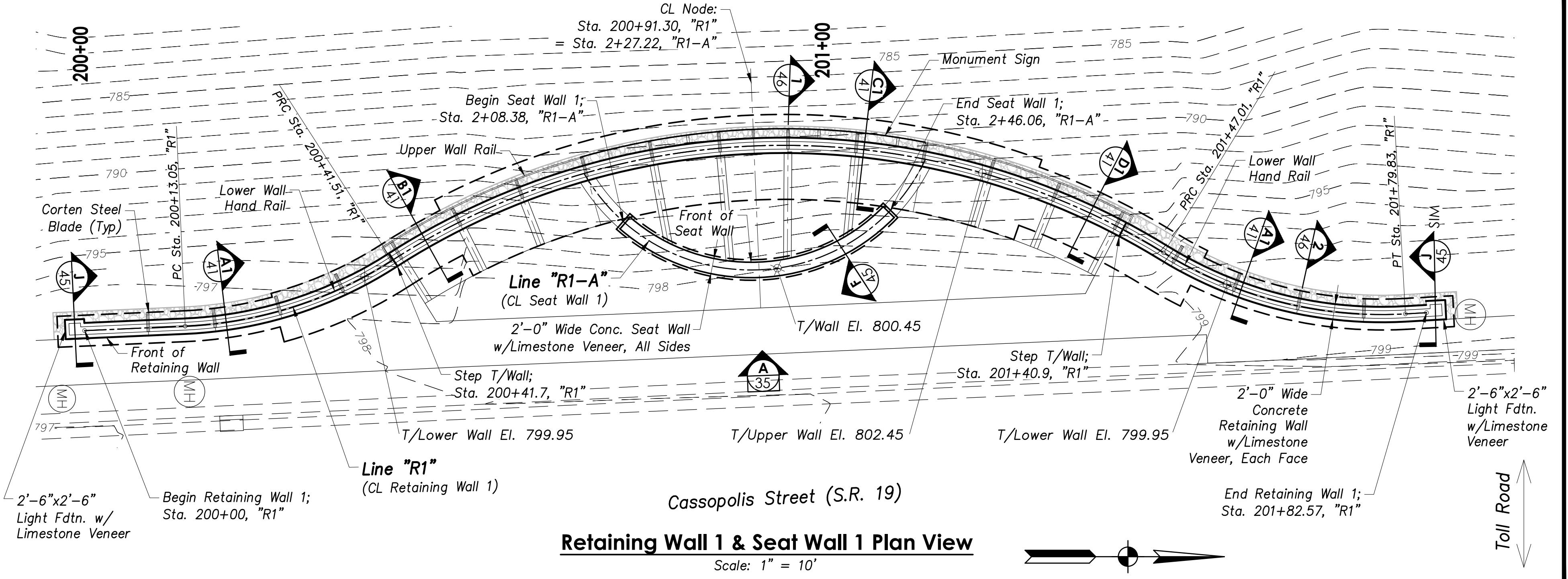
SHEET NO.  
**35 of 56**

Abonmarche - March 03, 2023 - 4:43pm



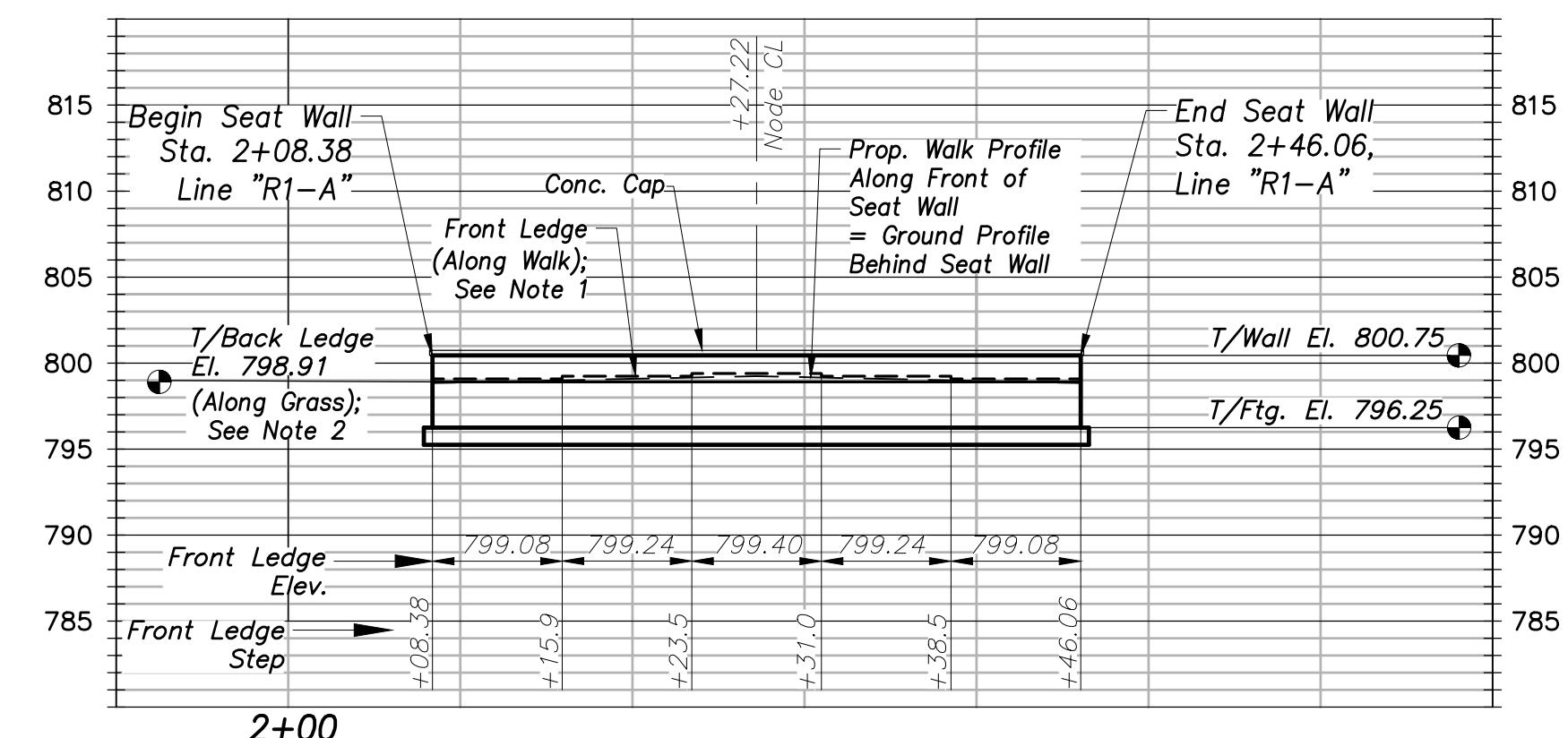
**Retaining Wall 1 Back Ledge Profile - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'



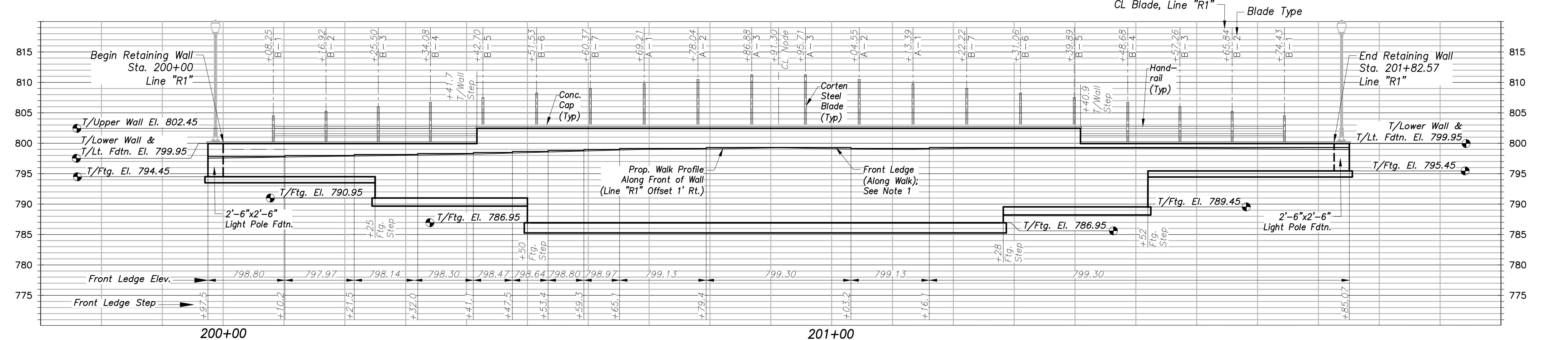
**Retaining Wall 1 & Seat Wall 1 Plan View**

Scale: 1" = 10'



**Seat Wall 1 Elevation A - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'



**Retaining Wall 1 Front (East) Elevation A - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'

NO. REVISION DESCRIPTION

BY DATE

35 of 56

**STATE ROAD 19  
CORRIDOR IMPROVEMENTS  
(PA7663)**

**RETAINING WALL  
STRUCTURAL PLANS**

PROJECT:

SHEET TITLE:

DRAWN BY:  
**NI**

DESIGNED BY:  
**SFL**

PM REVIEW:

**RAN**

QA/QC REVIEW:

**DSK**

DATE:

03/02/23

SEAL:

SCOTT F. LEBLANC  
REGISTERED  
NO. PE(091027)  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

SIGNATURE:

*Scott F. Leblanc*

DATE:

03/02/2023

SCALE:

HORZ: 1" = 10'

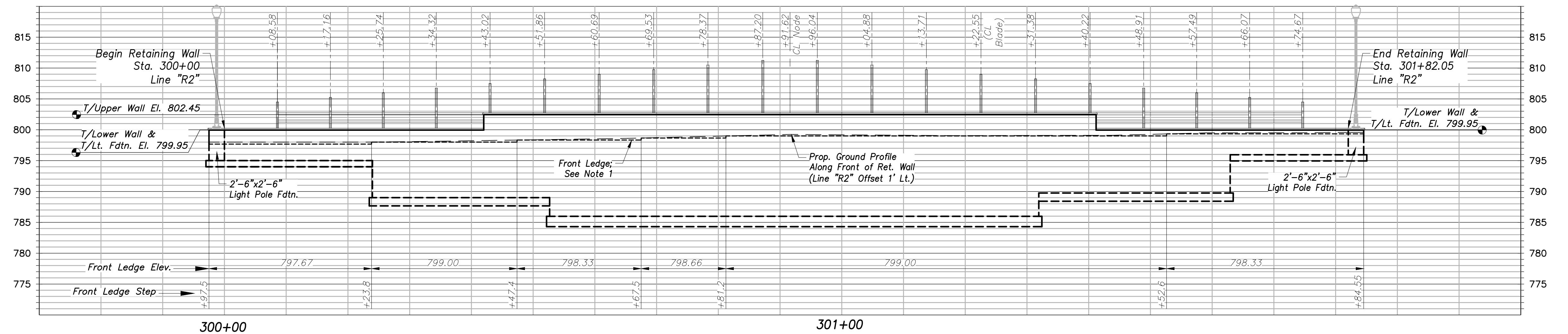
VERT: 1" = 10'

ACI JOB #

20-1114

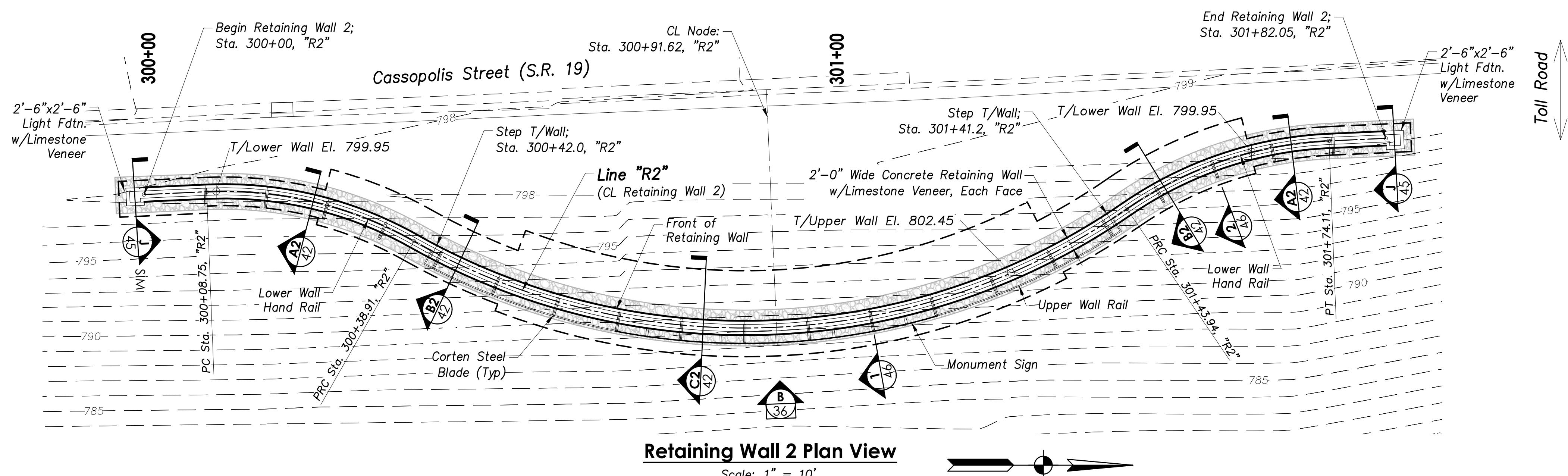
SHEET NO.

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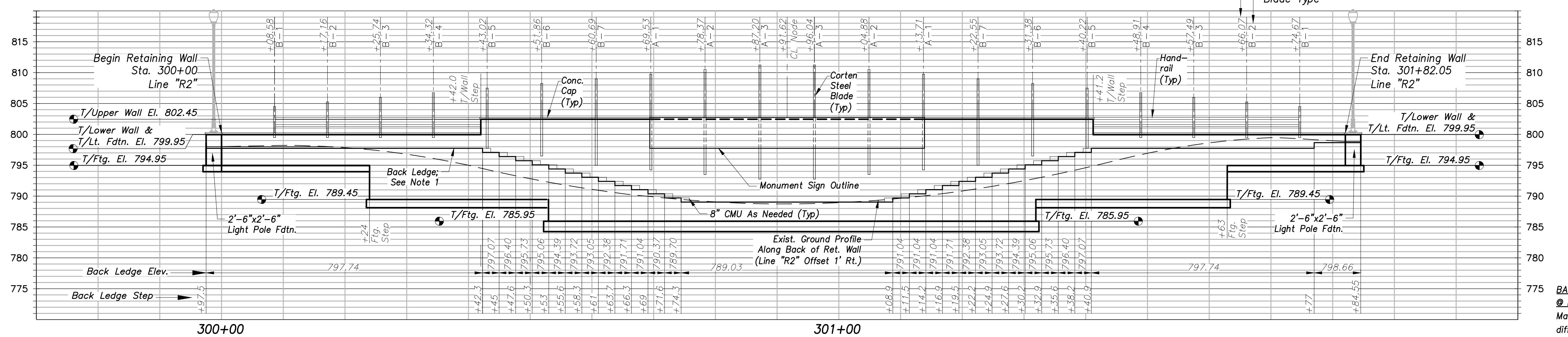
**Retaining Wall 2 Front Ledge Profile - View from Toll Road Westbound**

Horiz. & Vert. Scale: 1" = 10'



**Retaining Wall 2 Plan View**

Scale: 1" = 10'



**Retaining Wall 2 Back (East) Elevation B - View from Toll Road Westbound**

Horiz. & Vert. Scale: 1" = 10'

NO. REVISION DESCRIPTION

BY

DATE

BACK GROUND ELEV.  
@ LOWER WALL  
Maintain max. 30" height  
differential between top of  
lower wall cap and back  
ground level.

ACI JOB #

20-1114

SHEET NO.

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**STATE ROAD 19 CORRIDOR IMPROVEMENTS (PA7663)**

PROJECT:

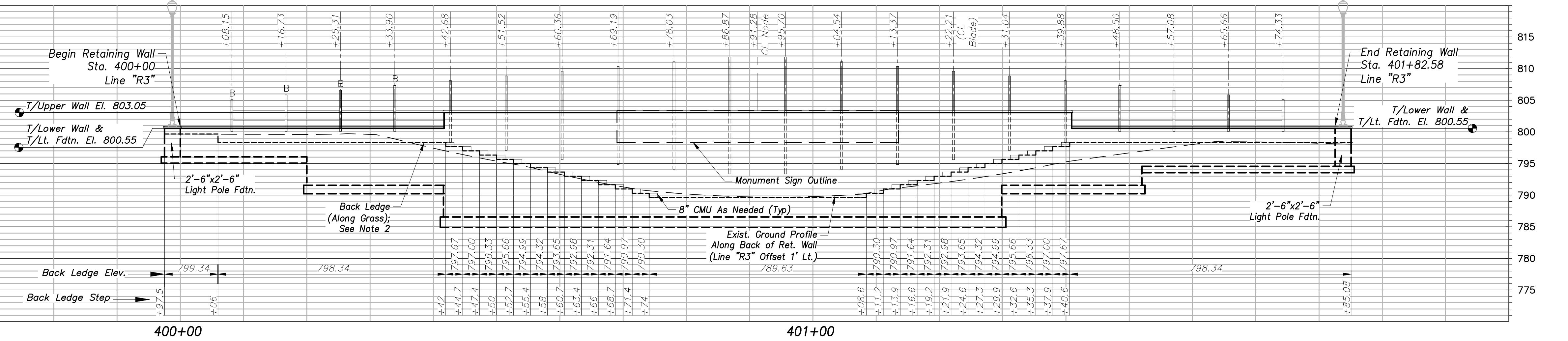
**RETAINING WALL STRUCTURAL PLANS**

SHEET TITLE:

DRAWN BY: NI  
DESIGNED BY: SFL  
PM REVIEW: RAN  
QA/QC REVIEW: DSK  
DATE: 03/02/23  
SEAL: SOLOTT F. LEBLANC REGISTERED NO. PE(091027) STATE OF INDIANA PROFESSIONAL ENGINEER

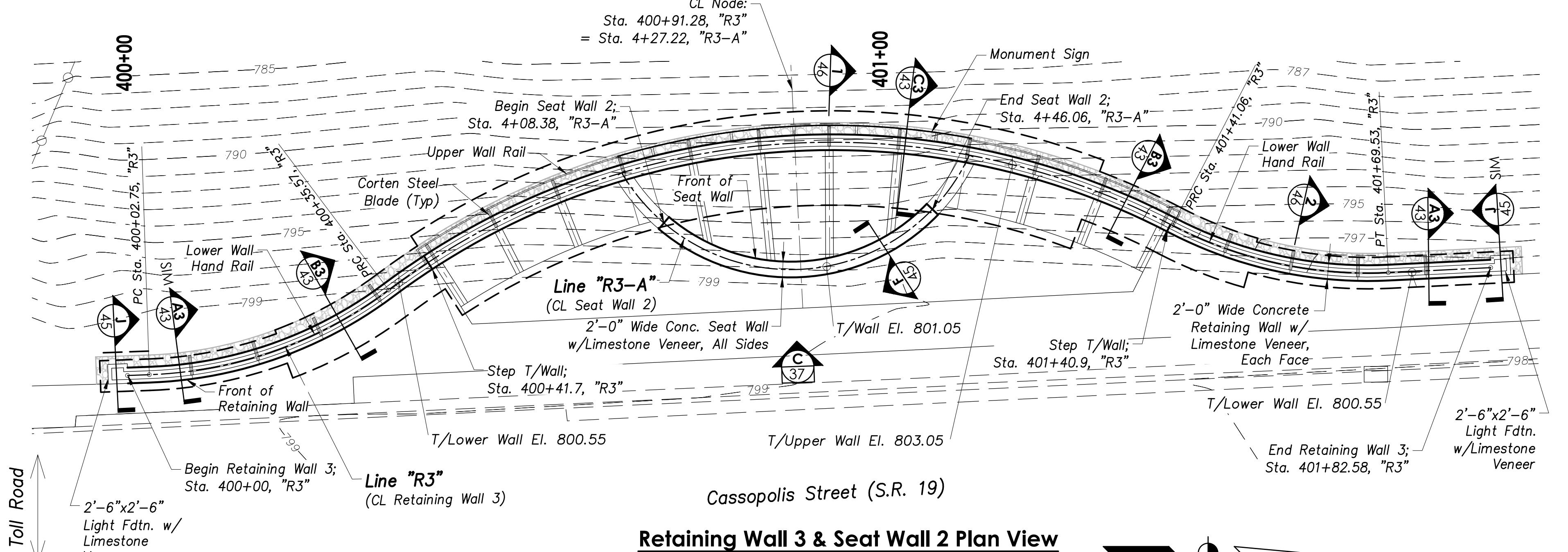
SIGNATURE: *Sam L.*  
DATE: 03/02/2023  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 10'  
AC JOB # 20-1114

SHEET NO. 37 of 56  
Revision: March 02, 2023 - 4:45pm  
NO. REVISION DESCRIPTION BY DATE



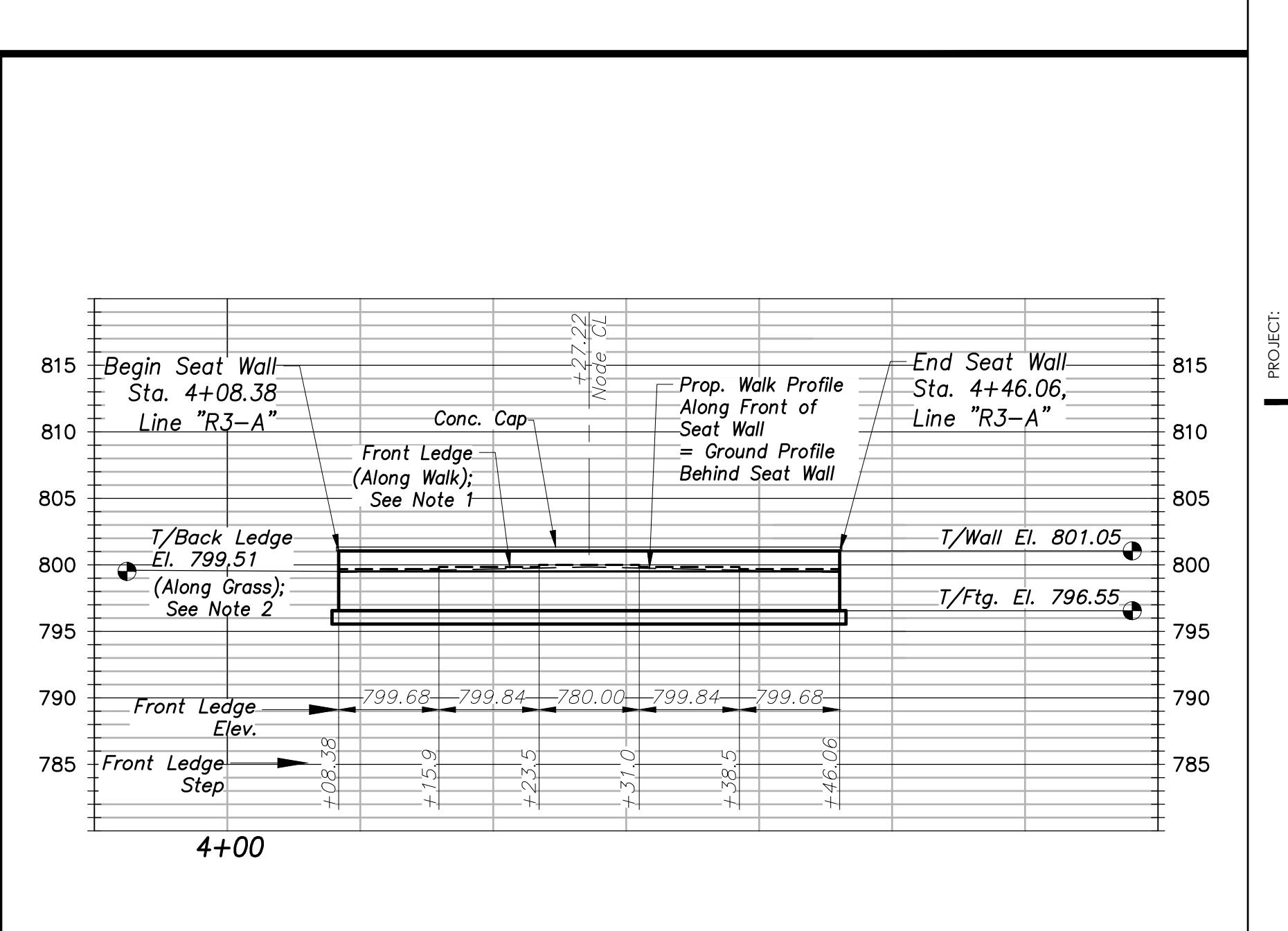
**Retaining Wall 3 Back Ledge Profile - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'



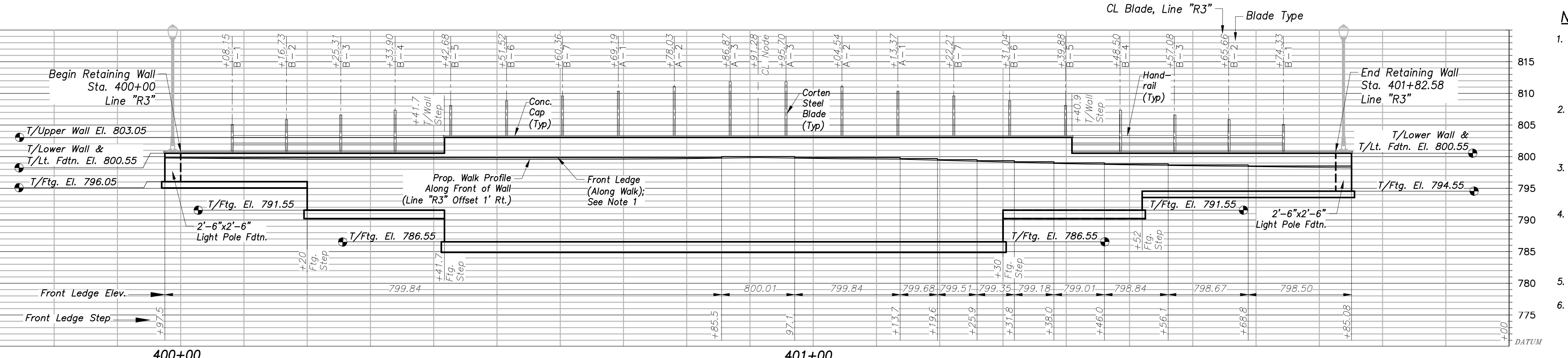
**Retaining Wall 3 & Seat Wall 2 Plan View**

Scale: 1" = 10'



**Seat Wall 2 Elevation C - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'



**Retaining Wall 3 Front (East) Elevation C - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'

**STATE ROAD 19  
CORRIDOR IMPROVEMENTS  
(PA7663)**

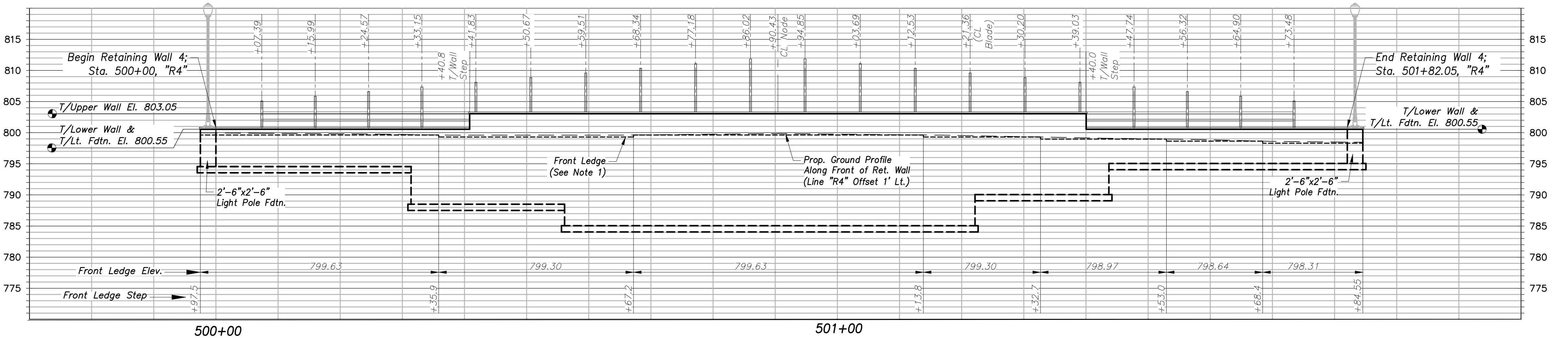
PROJECT:

**RETAINING WALL  
STRUCTURAL PLANS**

SHEET TITLE:

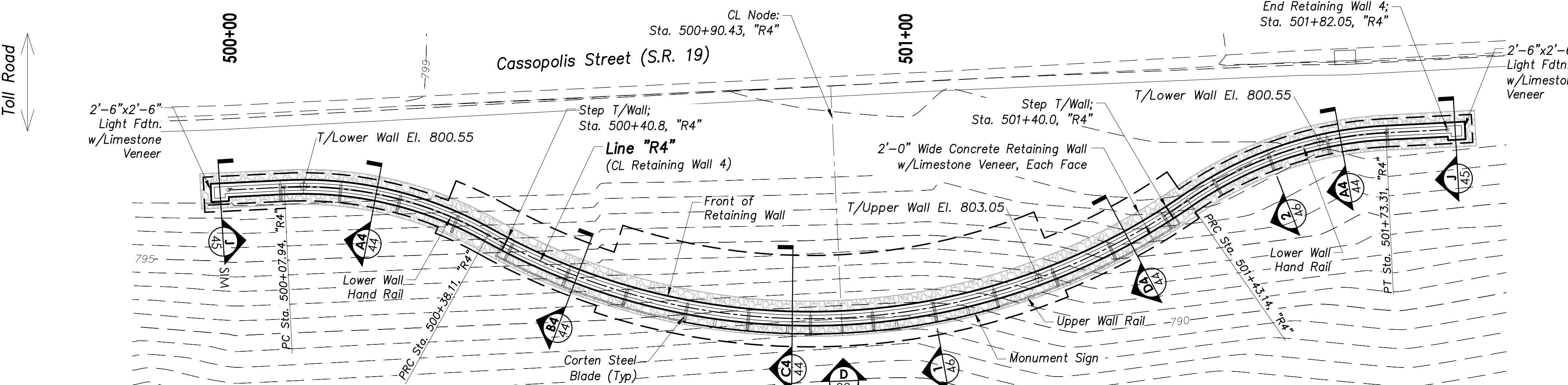
DRAWN BY: NI  
DESIGNED BY: SFL  
PM REVIEW: RAN  
QA/QC REVIEW: DSK  
DATE: 03/02/23  
SEAL: SCOTT F. LEBLANC REGISTERED NO. PE(091027) STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE: *Scott Leblanc*  
DATE: 03/02/2023  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 10'  
ACI JOB #: 20-1114  
SHEET NO.: 38 of 56  
REVISION DESCRIPTION  
BY DATE



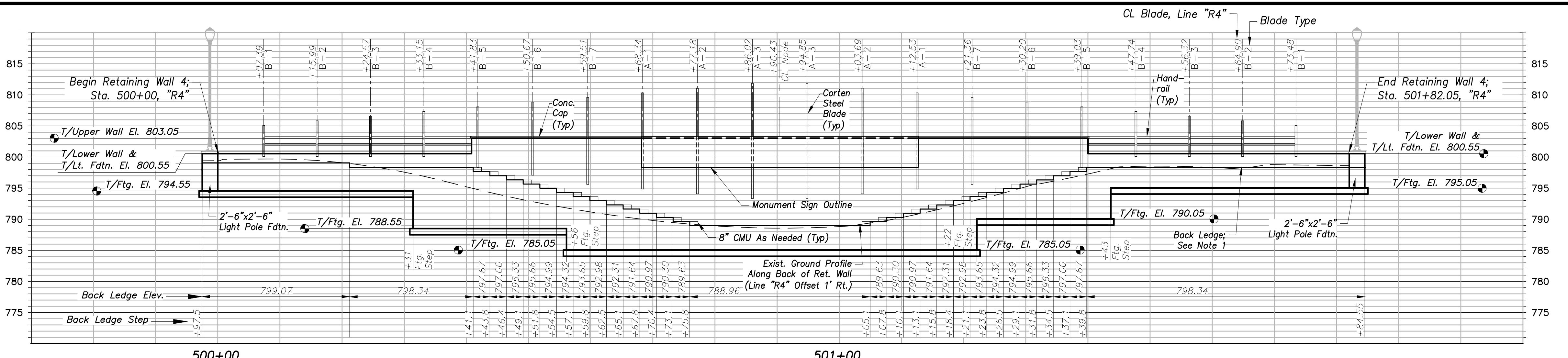
**Retaining Wall 4 Front Ledge Profile - View from Toll Road Westbound**

Horiz. & Vert. Scale: 1" = 10'



**Retaining Wall 4 Plan View**

Scale: 1" = 10'



**Retaining Wall 4 Back (East) Elevation D - View from Toll Road Westbound**

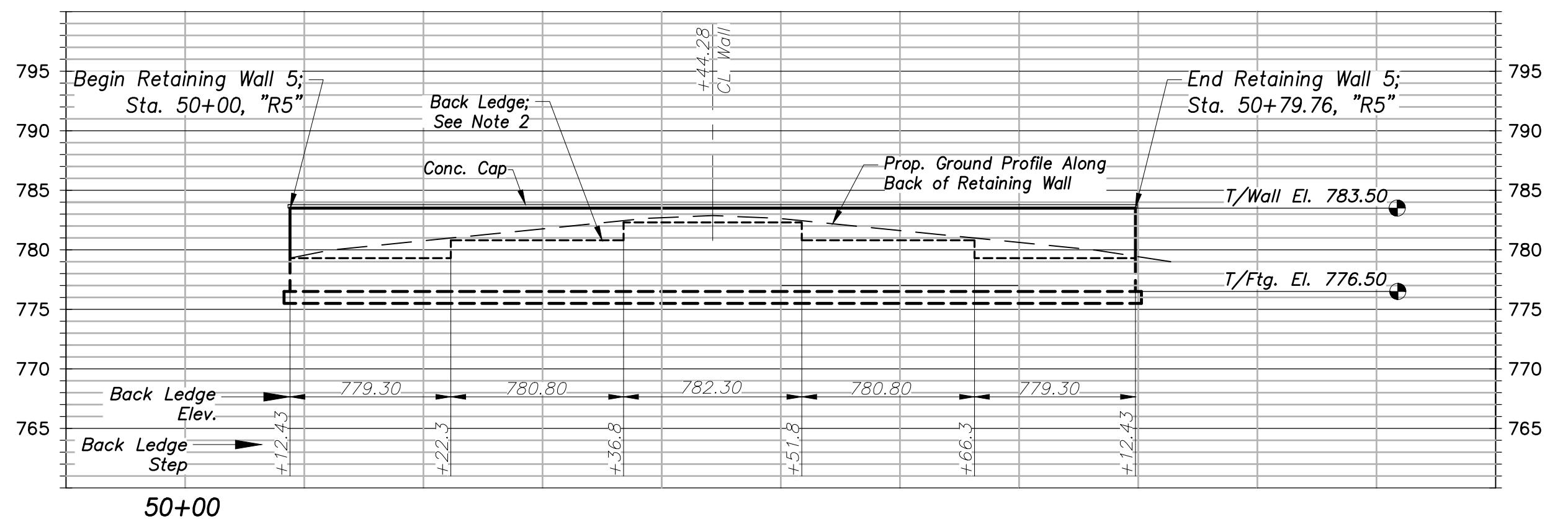
Horiz. & Vert. Scale: 1" = 10'

BACK GROUND ELEV.  
@ LOWER WALL  
Maintain max. 30" height  
differential between top of  
lower wall cap and back  
ground level.

**STATE ROAD 19  
 CORRIDOR IMPROVEMENTS  
 (PA7663)**

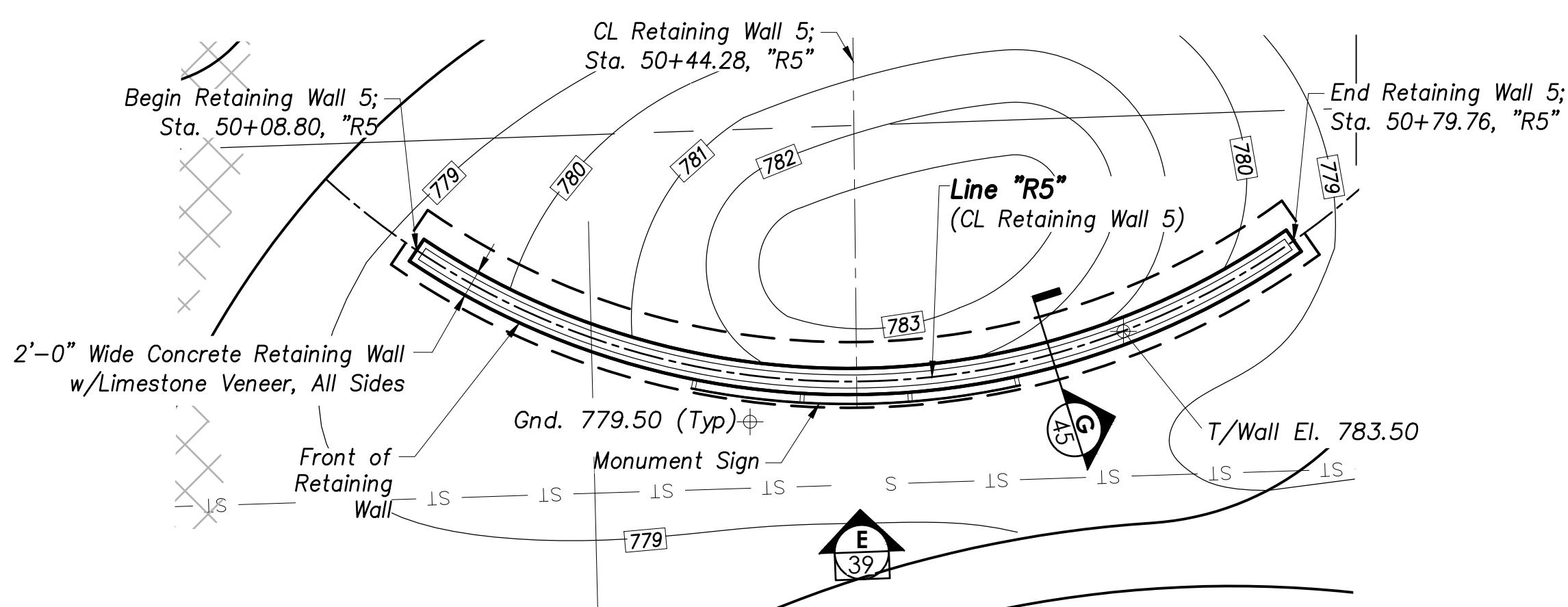
PROJECT:

**RETAINING WALL  
 STRUCTURAL PLANS**



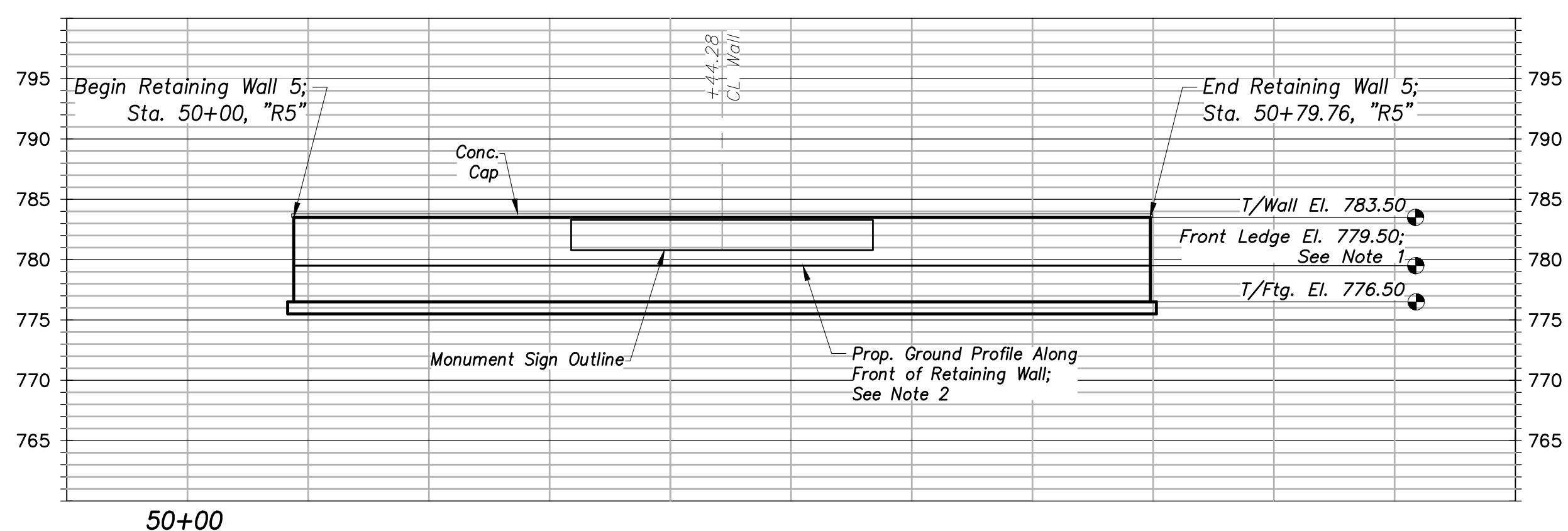
**Retaining Wall 5 Back Ledge Profile - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'



**Retaining Wall 5 Plan View**

Scale: 1" = 20'

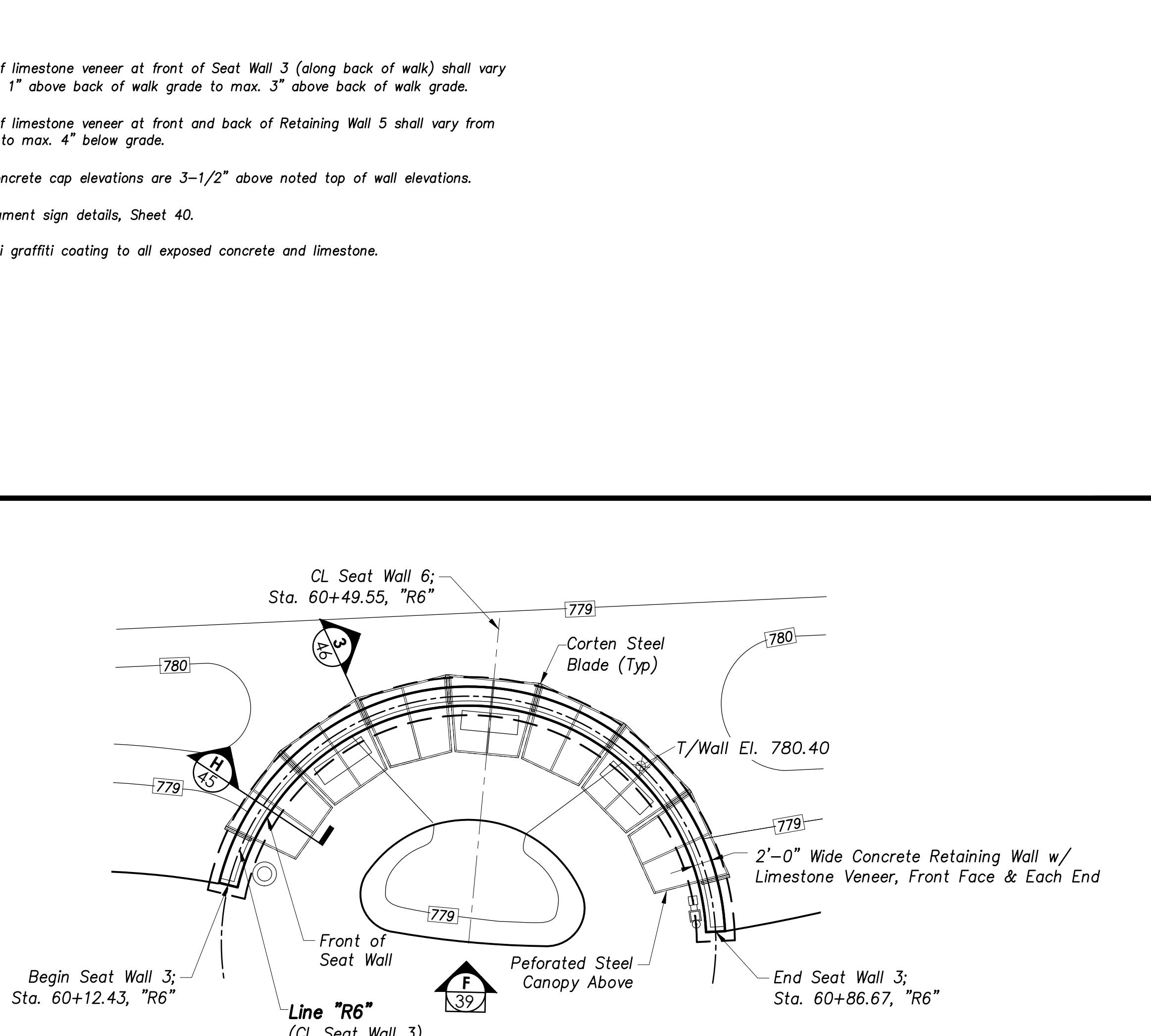


**Retaining Wall 5 Front Elevation E - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'

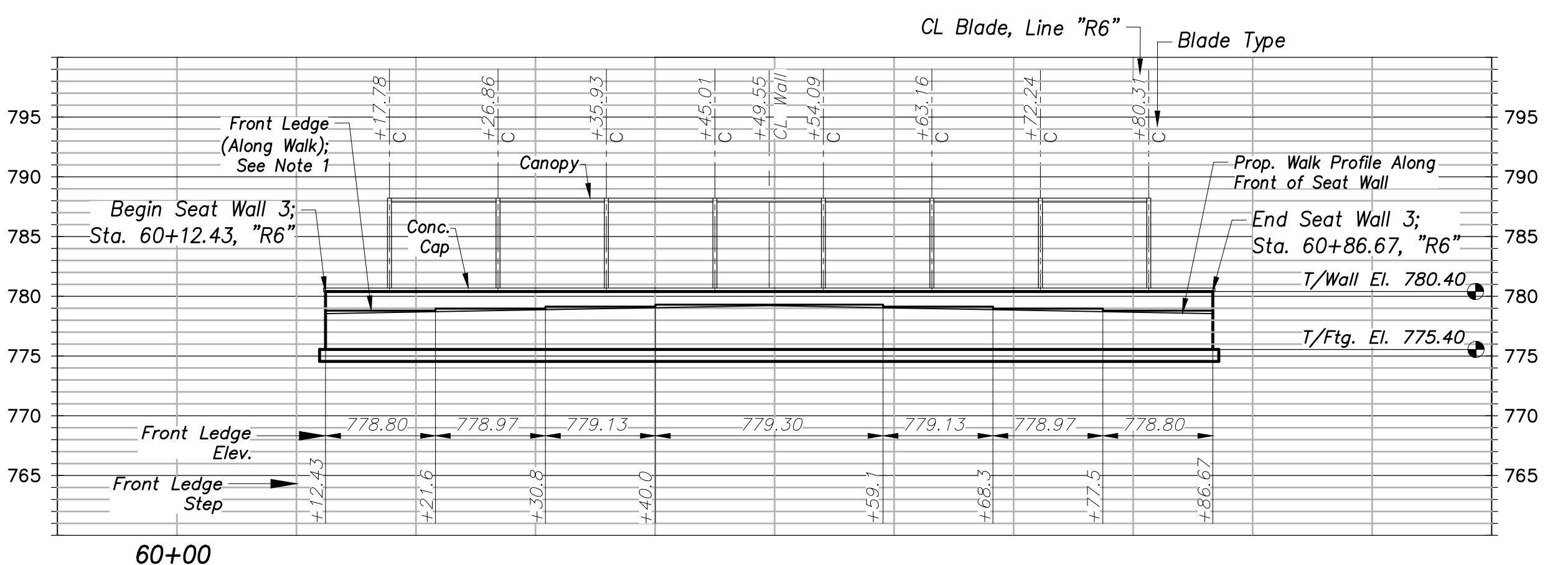
**NOTES**

- Bottom of limestone veneer at front of Seat Wall 3 (along back of walk) shall vary from min. 1" above back of walk grade to max. 3" above back of walk grade.
- Bottom of limestone veneer at front and back of Retaining Wall 5 shall vary from at grade to max. 4" below grade.
- Top of concrete cap elevations are 3-1/2" above noted top of wall elevations.
- See monument sign details, Sheet 40.
- Apply anti graffiti coating to all exposed concrete and limestone.



**Seat Wall 3 Plan View**

Scale: 1" = 20'



**Seat Wall 3 Front Elevation F - View from S.R. 19**

Horiz. & Vert. Scale: 1" = 10'

SHEET TITLE: **CL Blade, Line "R6"**

DRAWN BY: **NI**  
 DESIGNED BY: **SFL**  
 PM REVIEW: **RAN**  
 QA/QC REVIEW: **DSK**  
 DATE: **03/02/23**  
 SEAL:

SIGNATURE:

DATE: **03/02/2023**

SCALE: **HORZ: 1" = 10'  
 VERT: 1" = 10'**

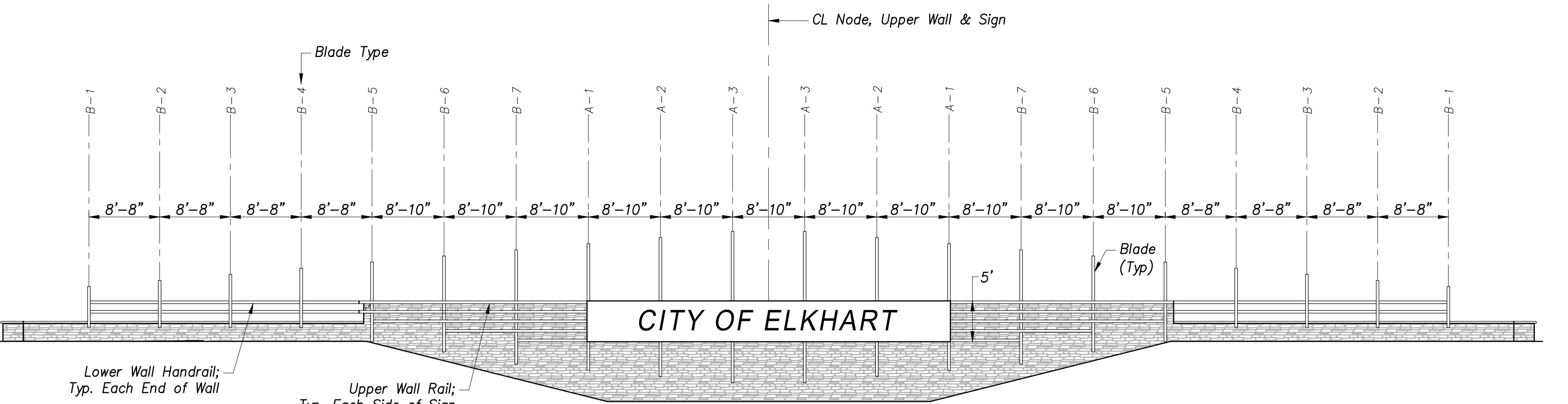
ACI JOB # **20-1114**

**STATE ROAD 19 CORRIDOR IMPROVEMENTS (PA7663)**

PROJECT:

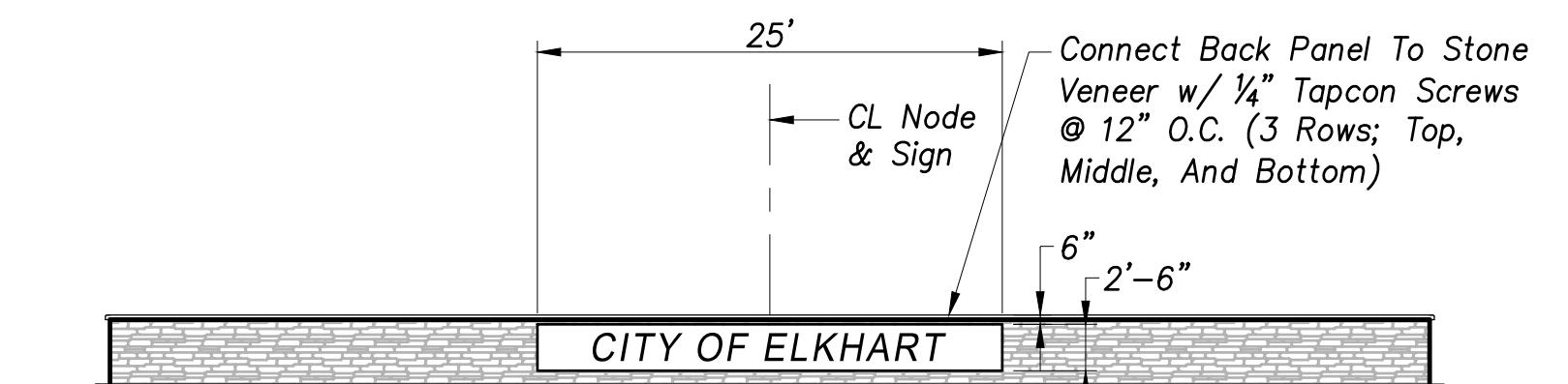
**TYPICAL WALL ELEVATIONS,  
 MONUMENT SIGN DETAILS &  
 HANDRAIL CONNECTION DETAILS**

|                      |                                  |  |
|----------------------|----------------------------------|--|
| SHEET TITLE:         | SECTION A-A                      |  |
| DRAWN BY:            | NI/KPV                           |  |
| DESIGNED BY:         | TRR/APH                          |  |
| PM REVIEW:           | SFL                              |  |
| QA/QC REVIEW:        | DSK                              |  |
| DATE:                | 03/02/23                         |  |
| SEAL:                |                                  |  |
| SIGNATURE:           |                                  |  |
| DATE:                | 03/02/2023                       |  |
| SCALE:               | HORZ: 1" = 10'<br>VERT: 1" = 10' |  |
| ACI JOB #:           | 20-1114                          |  |
| SHET NO.             | 40 of 56                         |  |
| REVISION DESCRIPTION |                                  |  |
| BY                   |                                  |  |
| DATE                 |                                  |  |



**Placemaking Node Typical Wall Elevation (Retaining Walls 1-4: View from Toll Road)**

Scale: 1" = 10'

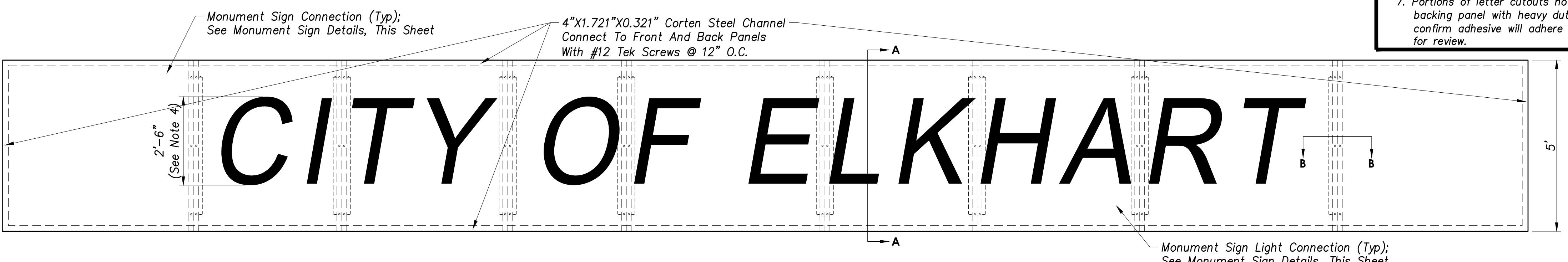


**Linear Park Wall Elevation (Retaining Wall 5: View from S.R. 19)**

Scale: 1" = 10'

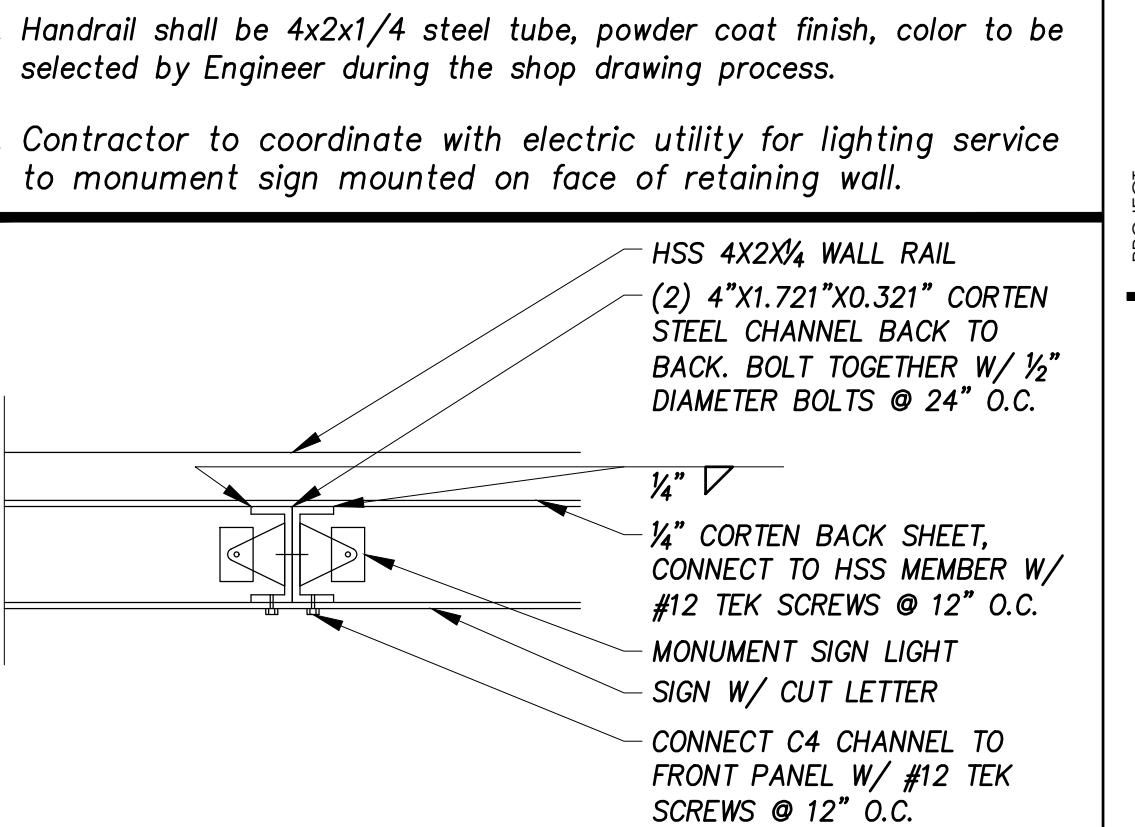
**NOTES**

- Contractor to submit detailed shop drawings for all sign metal fabrication components for review and approval by the Engineer prior to fabrication. All shop drawings shall be based on field measurements.
- Signs shall have front and back panels.
- Sign panels shall be 1/4" Corten steel sheets.
- Letters shall be cut out of the steel and backed with resin panels. Final font selection to be made during shop drawing process.
- Resin panel basis of design: "Lumishield EX" by Luminor
- Products and materials noted comprise the basis of design. Contractor may propose cost-saving alternate products, materials and/or details for engineer review during the shop drawing process. Proposed alternatives must maintain the design intent as closely as possible.
- Portions of letter cutouts not directly connected to the sign front panel shall be adhered directly to the resin backing panel with heavy duty construction adhesive and 1/4" dia. carriage bolts at 12" o.c. Contractor shall confirm adhesive will adhere to materials and shall submit adhesive spec. during shop drawing process to EOR for review.

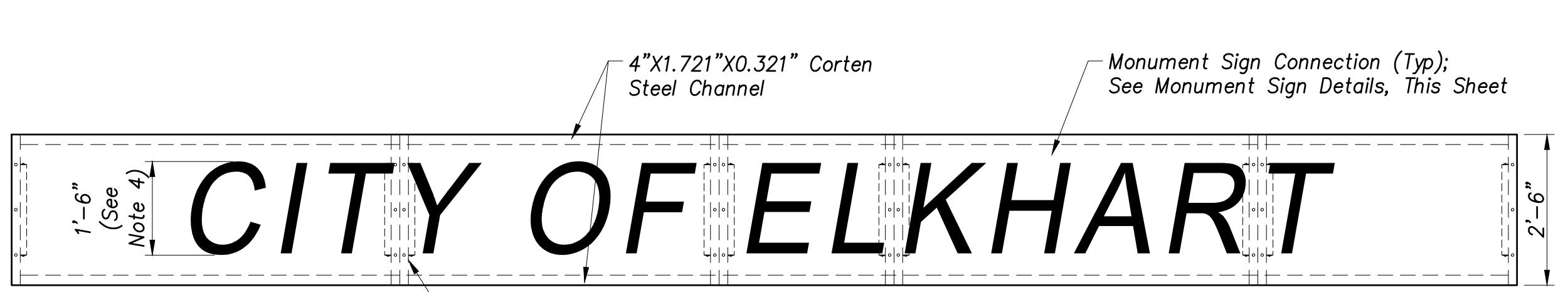


**Placemaking Node Typical Monument Sign Detail (Retaining Walls 1-4: View from Toll Road)**

Scale: 1" = 2'

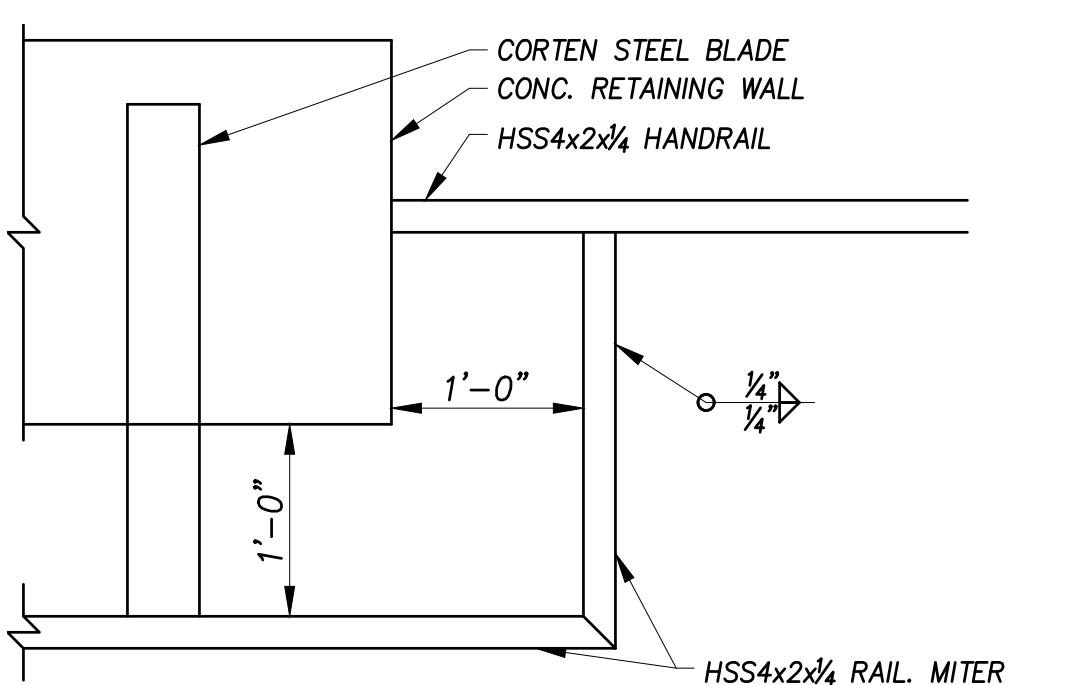


**Section B-B**



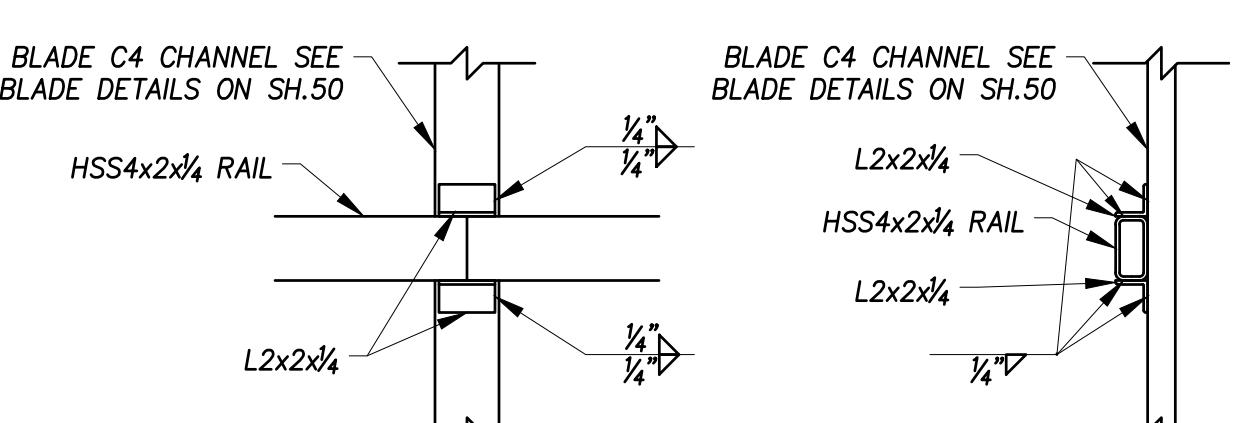
**Linear Park Monument Sign Detail (Retaining Wall 5: View from S.R. 19)**

Scale: 1" = 2'



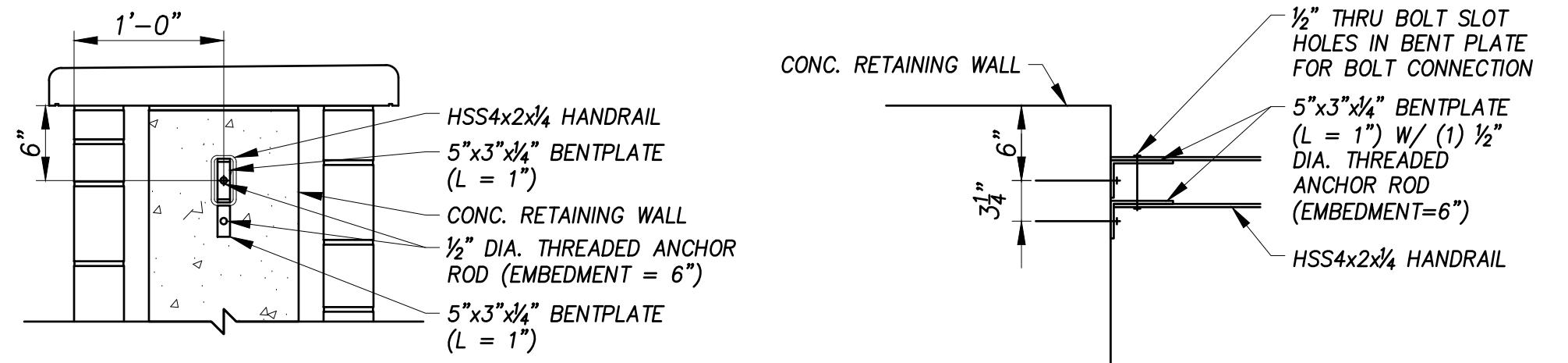
**Handrail Detail Around Retaining Wall**

Scale: 1" = 1'-0"



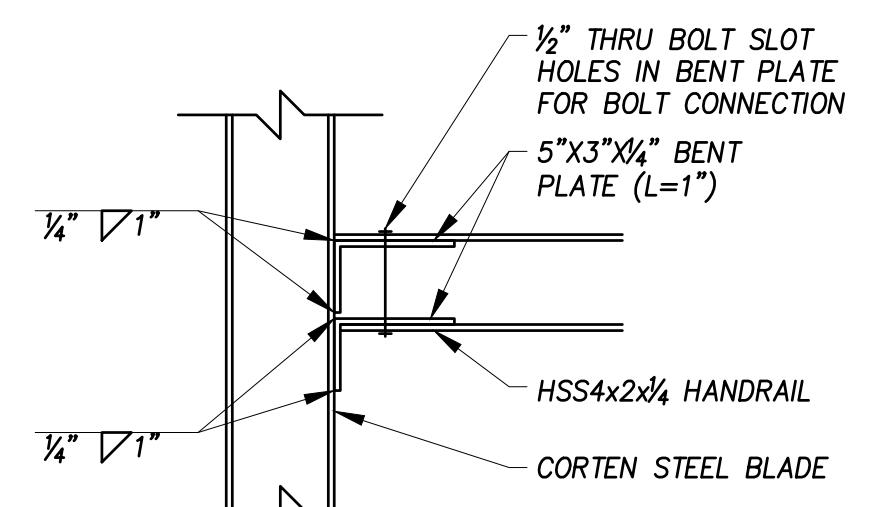
**Wall Rail Connection To Corten Steel Blade Detail**

Scale: 1" = 1'-0"



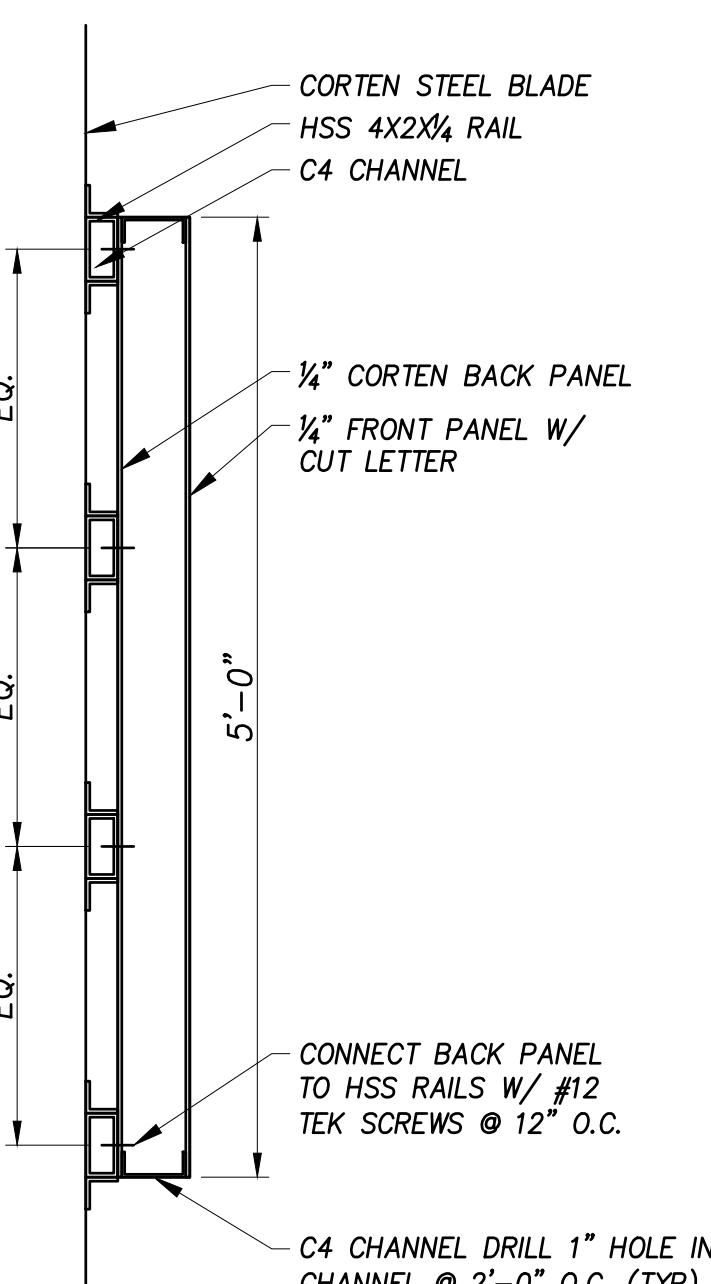
**Handrail Connection To Concrete Retaining Wall Detail**

Scale: 1" = 1'-0"



**Handrail Connection to Corten Steel Blade Detail**

Scale: 1" = 1'-0"



**Monument Sign Details**

Scale: 1" = 1'-0"

NO. REVISION DESCRIPTION

BY DATE

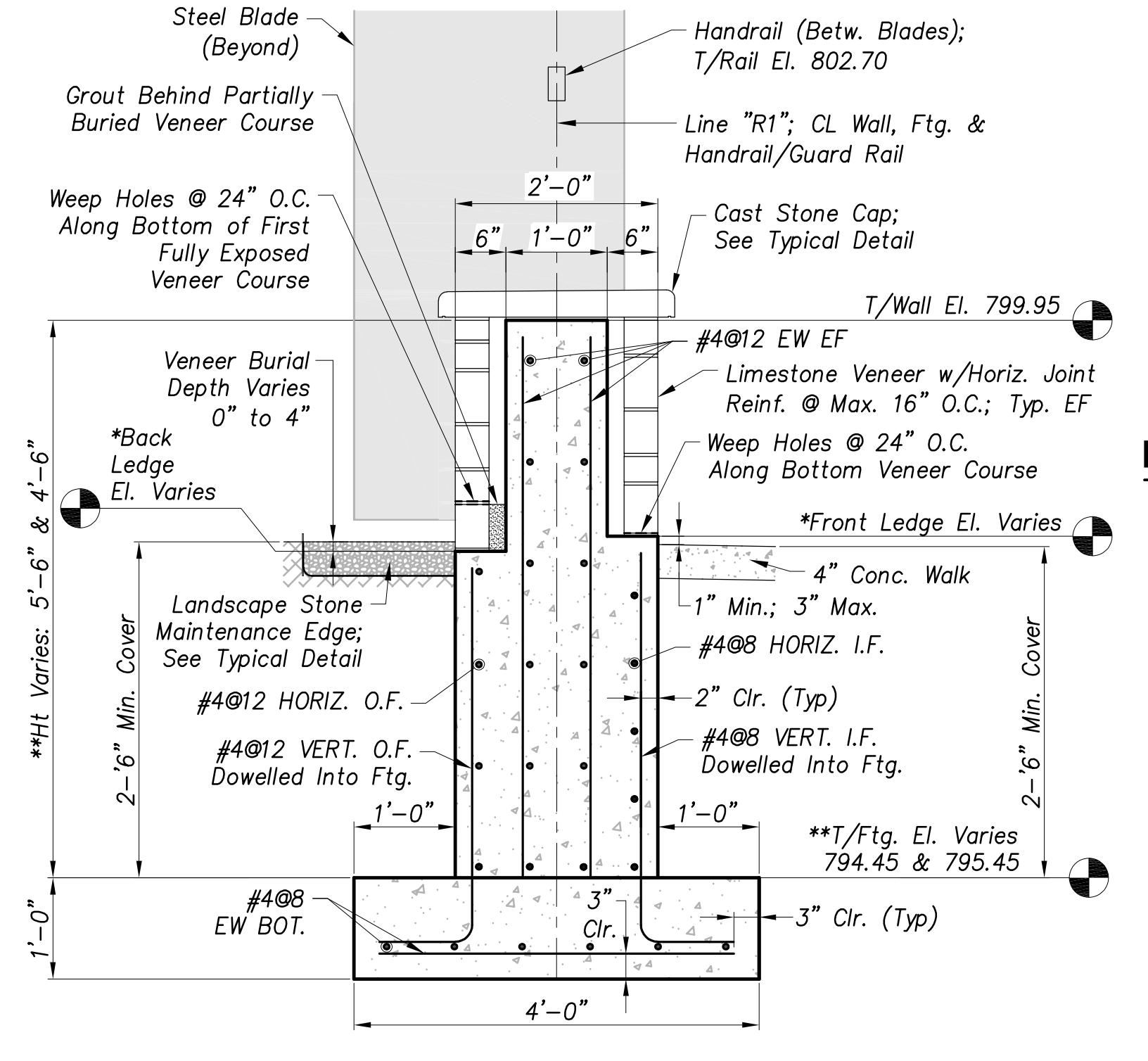
**STATE ROAD 19**  
**CORRIDOR IMPROVEMENTS**  
(PA7663)

PROJECT:

**RETAINING WALL SECTIONS**

|                       |   |
|-----------------------|---|
| SHEET TITLE:          | RETAINING WALL SECTIONS   |
| DRAWN BY:             | NI  |
| DESIGNED BY:          | SFL   |
| PM REVIEW:            | RAN   |
| QA/QC REVIEW:         | DSK   |
| DATE:                 | 03/02/23  |
| SEAL:                 | SCOTT FLEISCHER<br>REGISTERED<br>PROFESSIONAL ENGINEER<br>NO. PEI091027<br>STATE OF INDIANA |
| SIGNATURE:            |   |
| DATE:                 | 03/02/2023  |
| SCALE:                | HORZ: AS SHOWN<br>VERT: N/A   |
| ACI JOB #:            | 20-1114   |
| SHEET NO.             | 41 of 56  |
| REVISION DESCRIPTION: |   |
| BY:                   |   |
| DATE:                 |   |

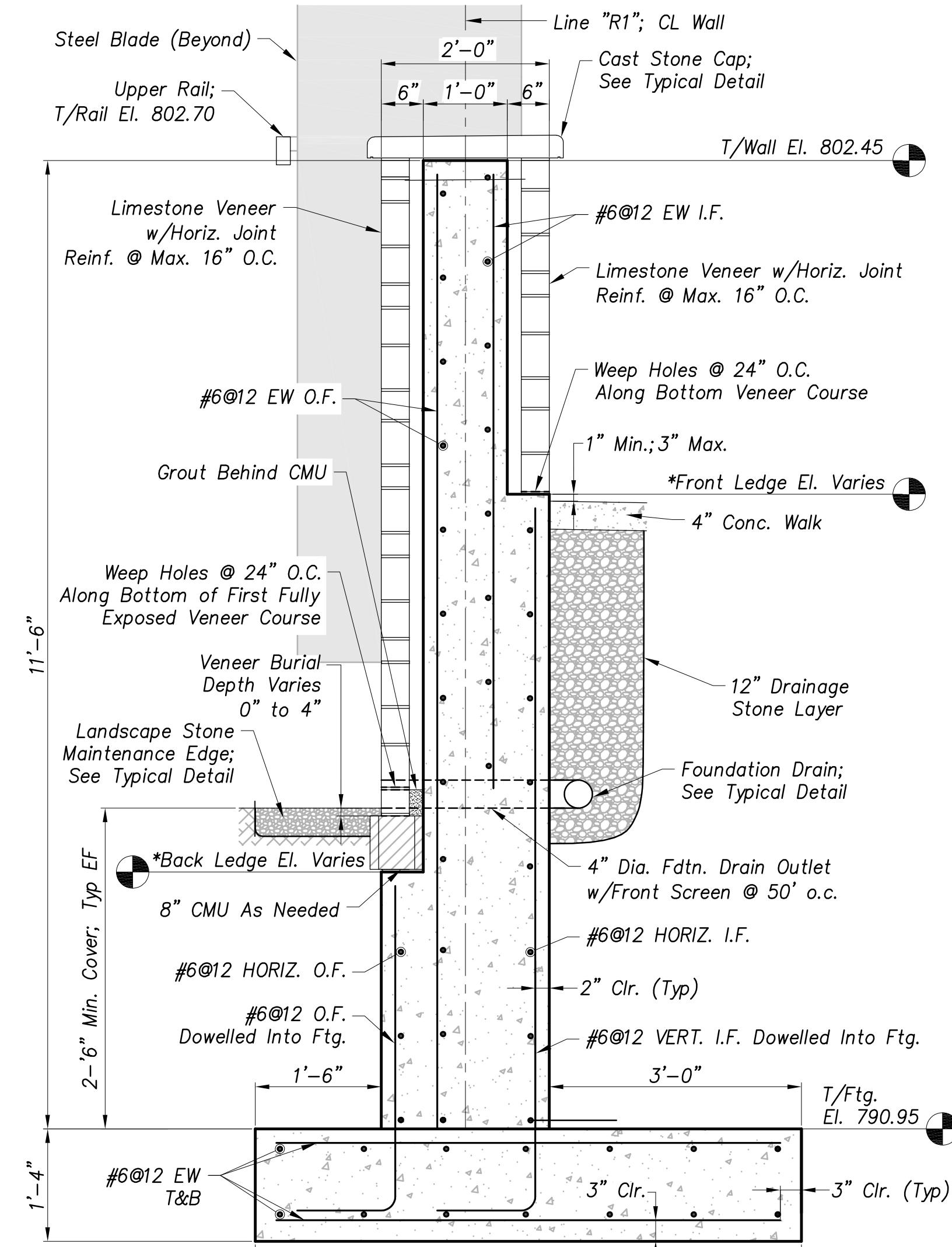
Autodesk Revit - May 23, 2023 - 12:26pm



**Retaining Wall 1 - Section A1**

Scale: 3/4" = 1'-0"

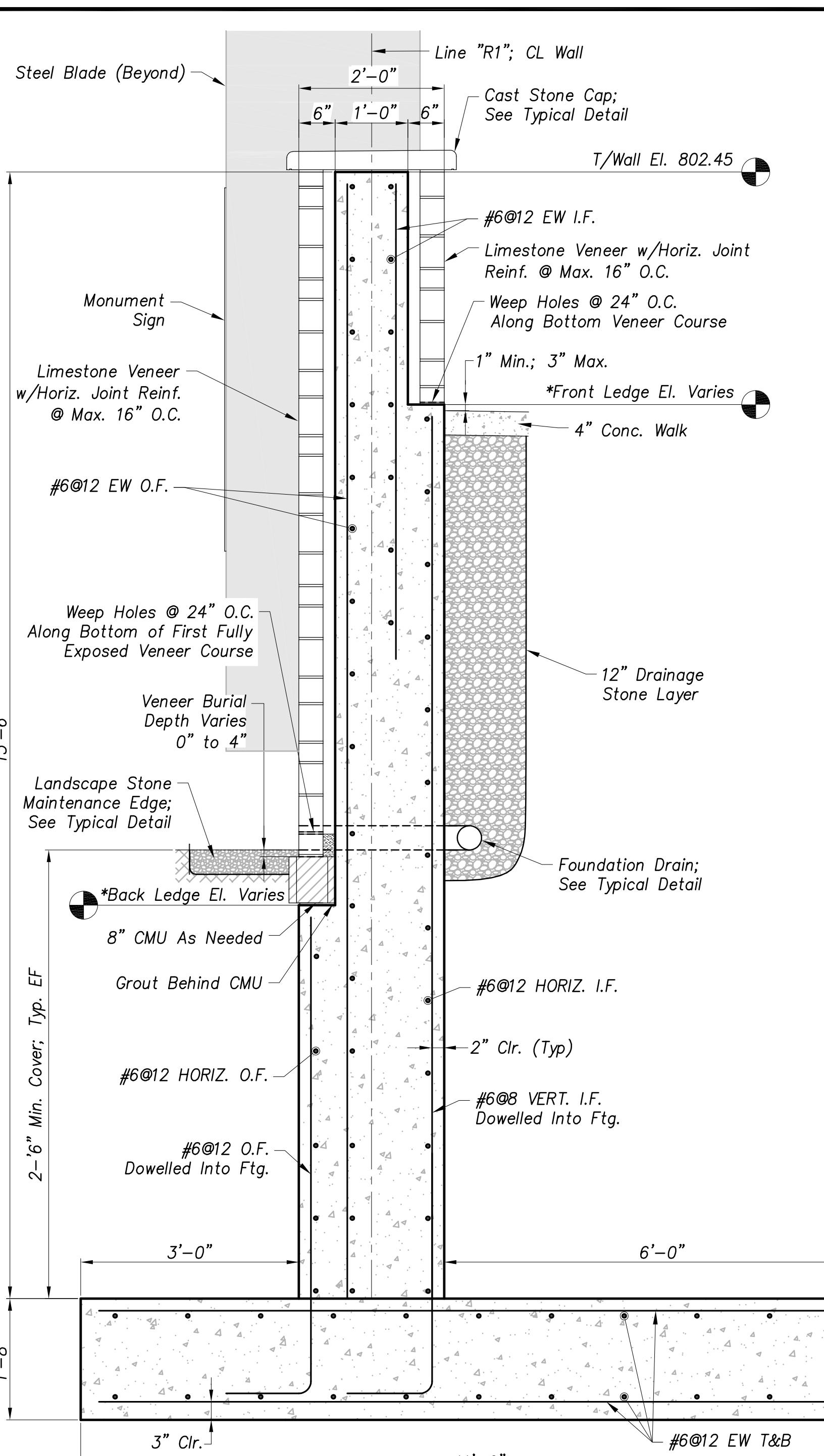
41



**Retaining Wall 1 - Section B1**

Scale: 3/4" = 1'-0"

41



**Retaining Wall 1 - Section C1**

Scale: 3/4" = 1'-0"

41

**GENERAL NOTES**

**\*ALL SECTIONS, THIS SHEET:**

Front ledge and back ledge elevations vary along profile;  
See Retaining Wall 1 Front Elevation A & Back Ledge Profile, Sheet 35

**\*\*SECTION A1:**

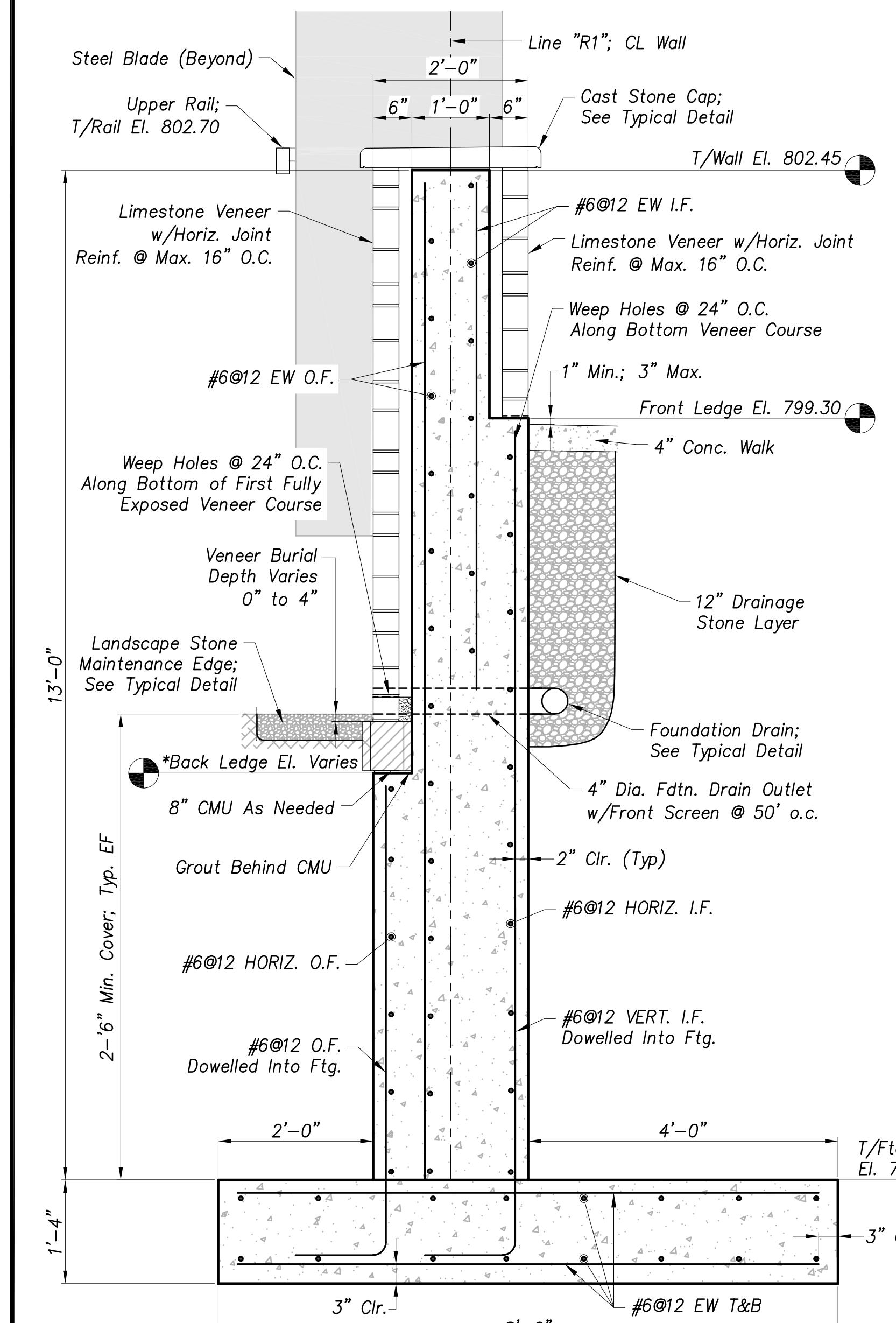
T/Ftg El. 794.45 at initial section of Retaining Wall 1 beginning at Sta. 200+00;  
T/Ftg El. 795.45 at terminal section of Retaining Wall 1 ending at Sta. 201+82.57;  
See Retaining Wall 1 Front Elevation A & Back Ledge Profile, Sheet 35

**LIMESTONE VENEER**

Product: Chilton Rustic Ledgestone Ashlar, Full Depth  
Manufacturer: Beuchel Stone  
Supplier: Knepp Sand and Stone  
70765 CR 23  
New Paris, IN 46553  
(574) 831-4949  
Or Equal

**HANDRAIL NOTE**

Handrail shall be 4x2x1/4 steel tube, powder coat finish, color to be selected by Engineer during the shop drawing process.



**Retaining Wall 1 - Section D1**

Scale: 3/4" = 1'-0"

41

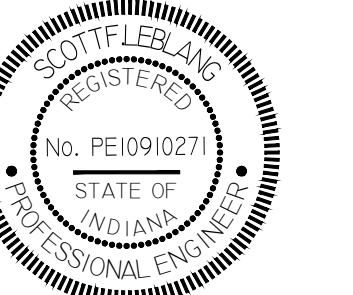
NO. REVISION DESCRIPTION

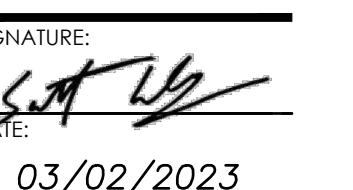
BY DATE

**STATE ROAD 19  
CORRIDOR IMPROVEMENTS  
(PA7663)**

PROJECT: \_\_\_\_\_

SHEET TITLE: \_\_\_\_\_

DRAWN BY: **NI**  
DESIGNED BY: **SFL**  
PM REVIEW: **RAN**  
QA/QC REVIEW: **DSK**  
DATE: **03/02/23**  
SEAL: 

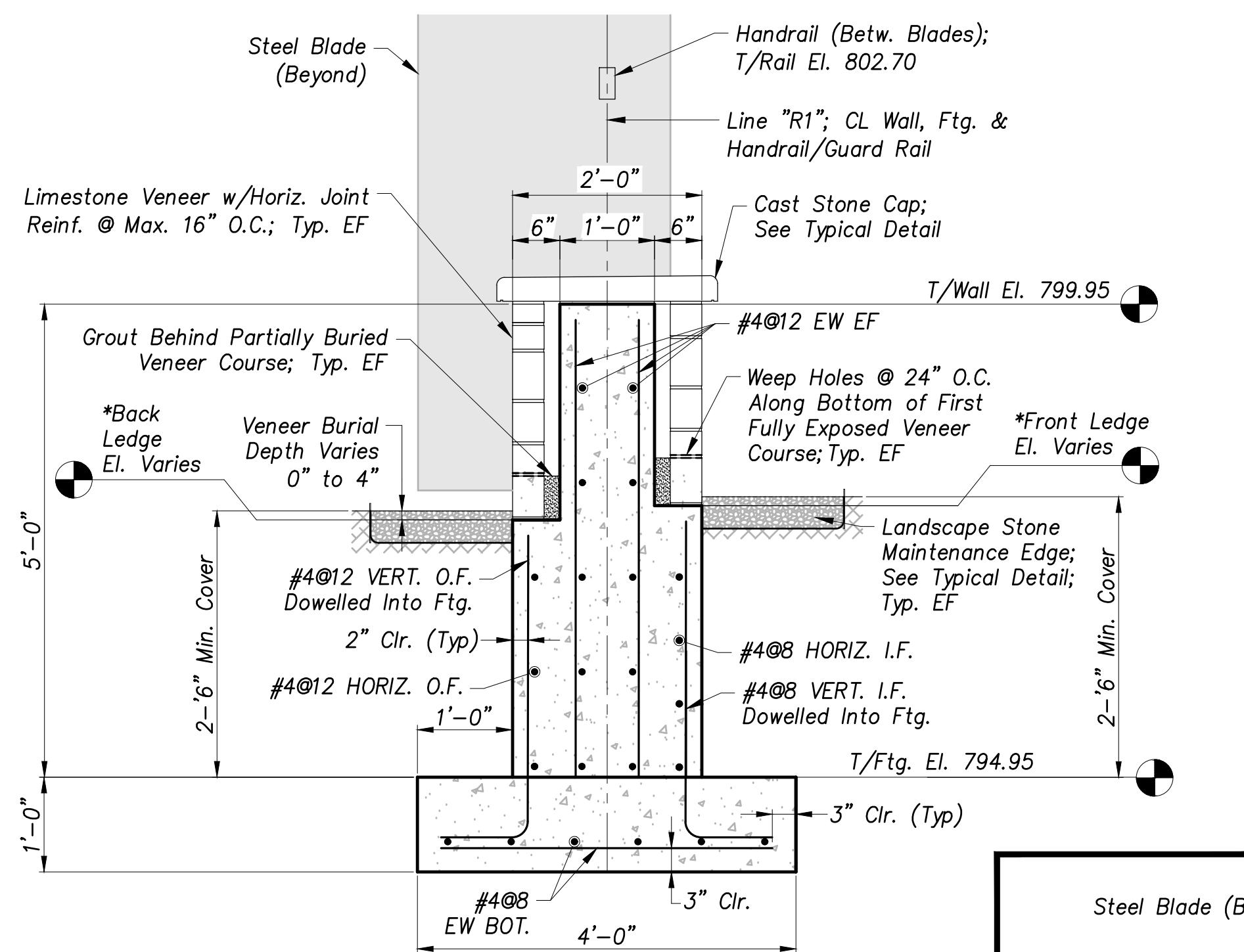
SIGNATURE:   
DATE: **03/02/2023**

SCALE: HORIZ: AS SHOWN  
VERT: N/A

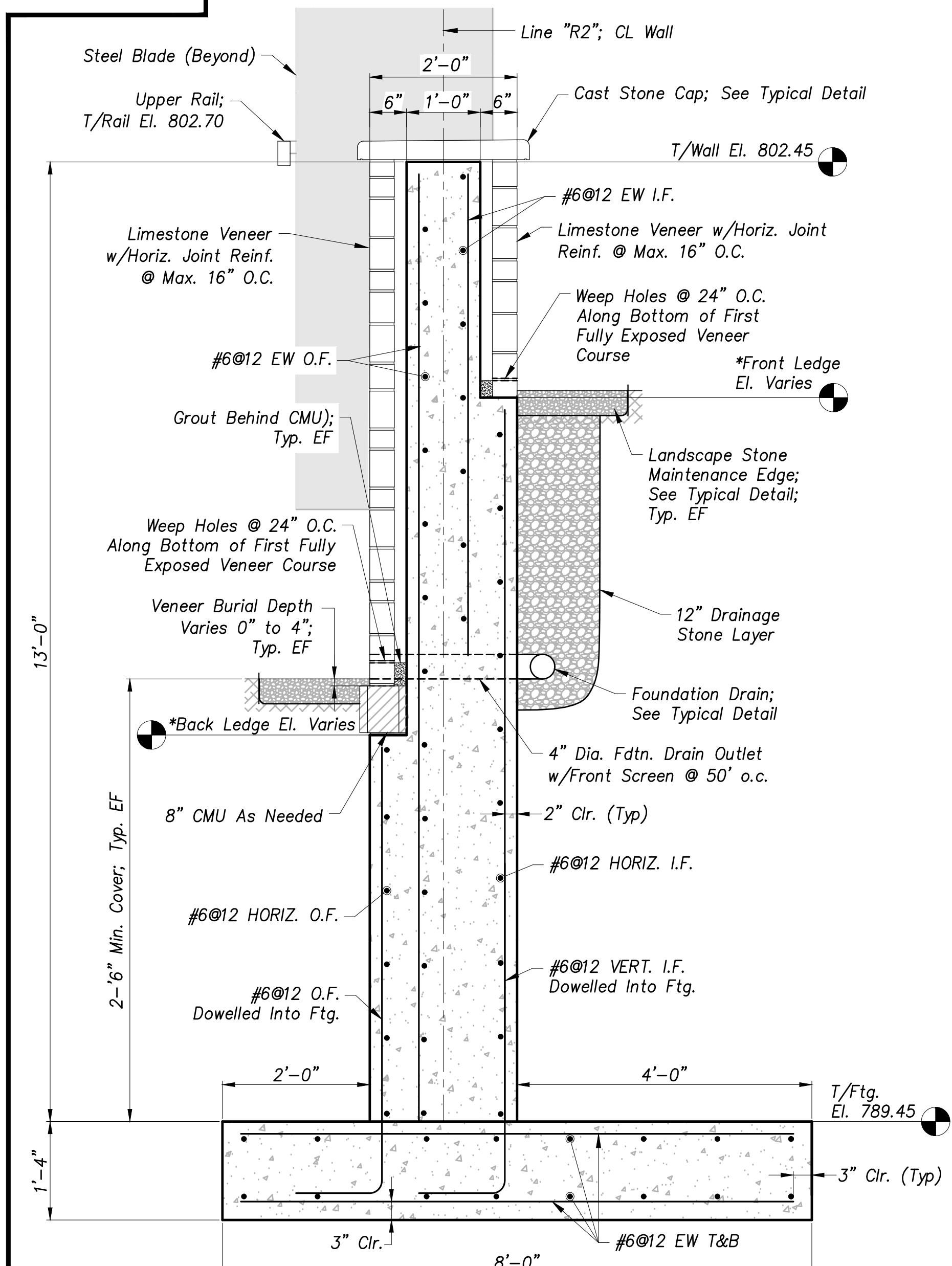
ACI JOB #: **20-1114**

Sheet No.: **42** of **56**

Revision Description: \_\_\_\_\_



**Retaining Wall 2 - Section A2**  
Scale:  $3/4" = 1'-0"$  42



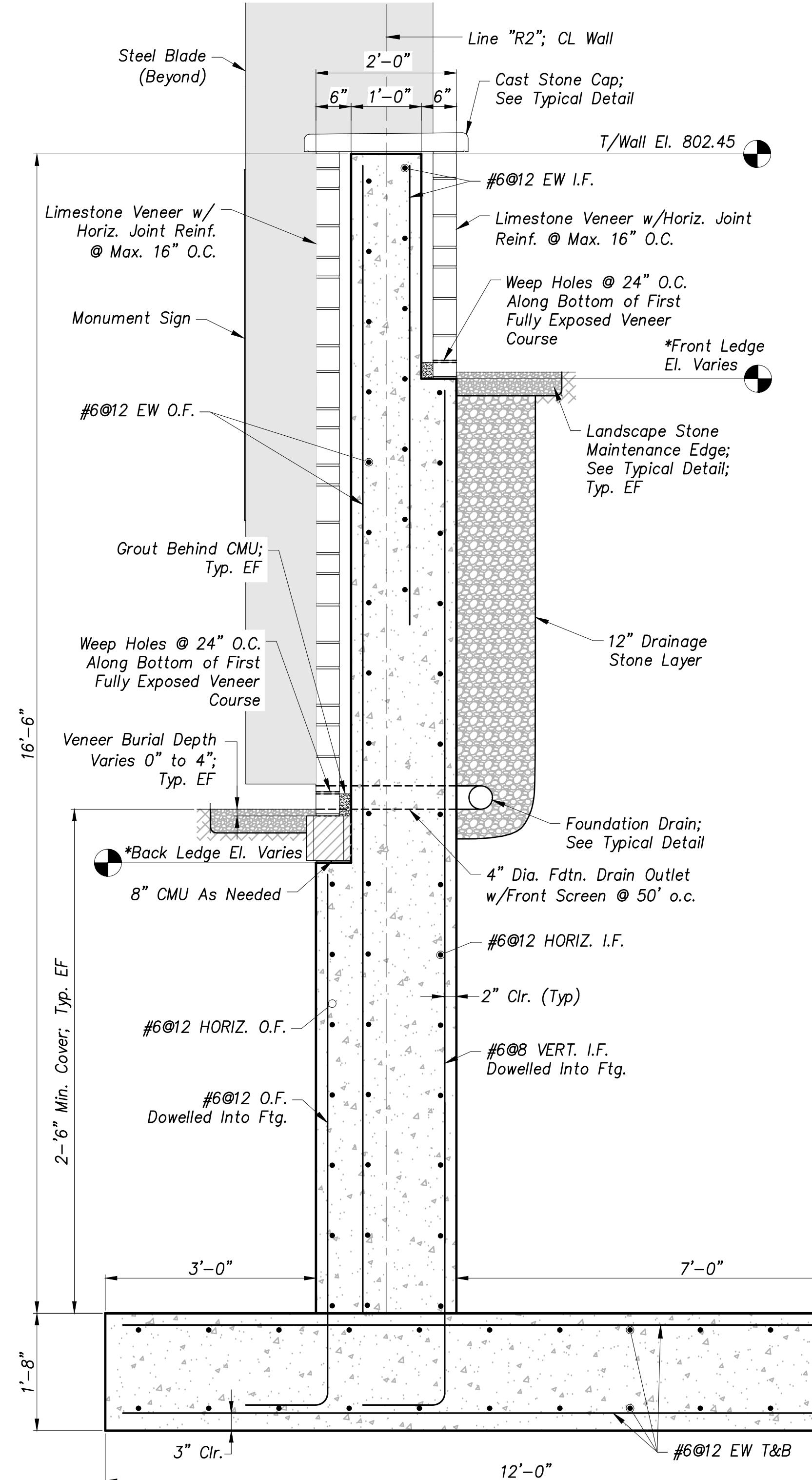
**Retaining Wall 2 - Section B2**  
Scale:  $3/4" = 1'-0"$  42

**GENERAL NOTES**

\*ALL SECTIONS, THIS SHEET:  
Front Ledge and back ledge elevations vary along profile;  
See Retaining Wall 2 Back Elevation B & Front Ledge Profile, Sheet 36

**HANDRAIL NOTE**

Handrail shall be 4x2x1/4 steel tube, powder coat finish, color to be selected by Engineer during the shop drawing process.

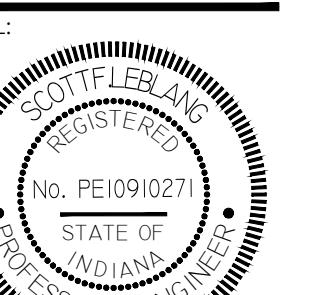
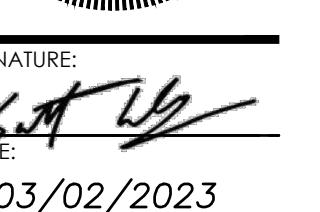


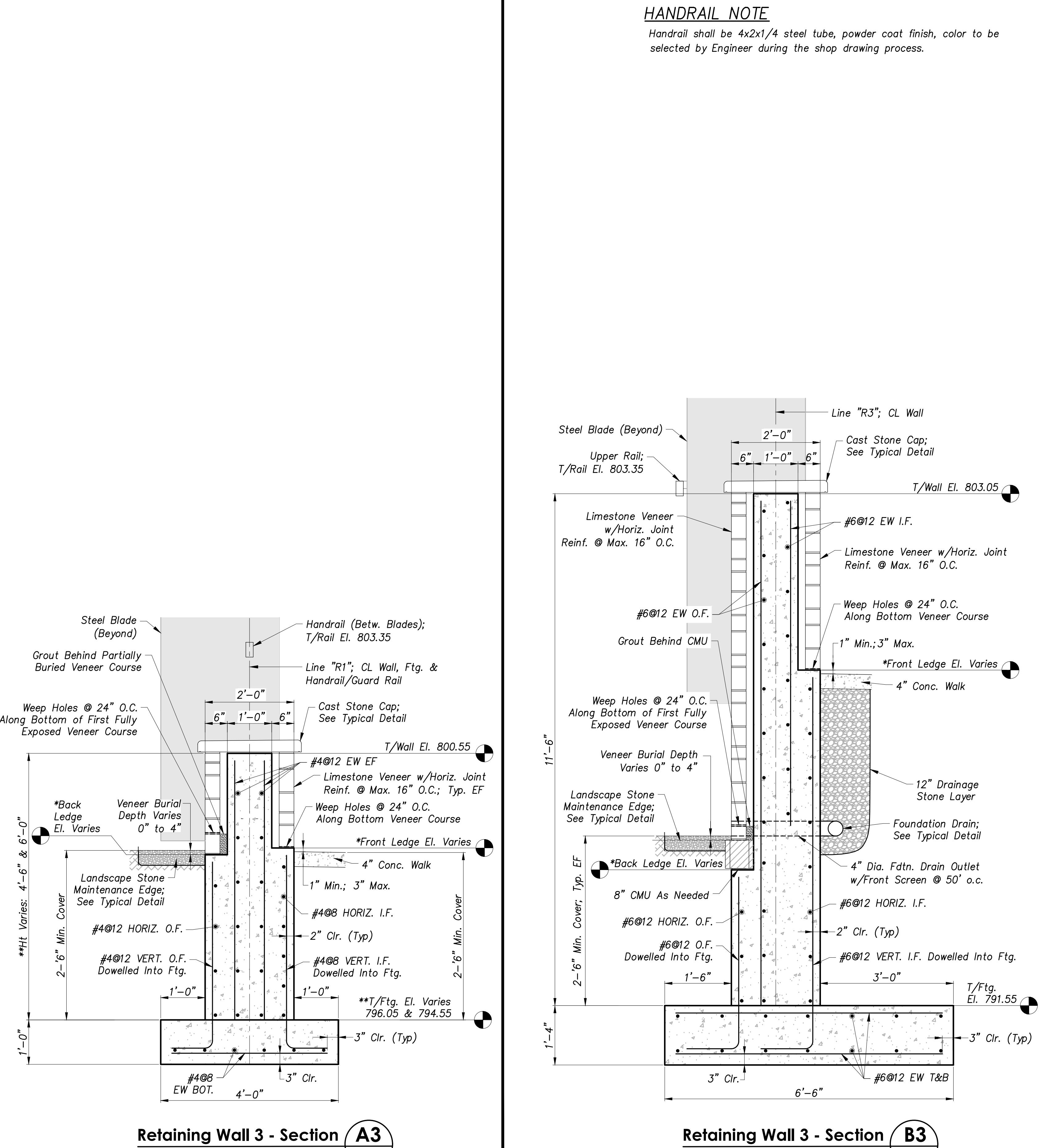
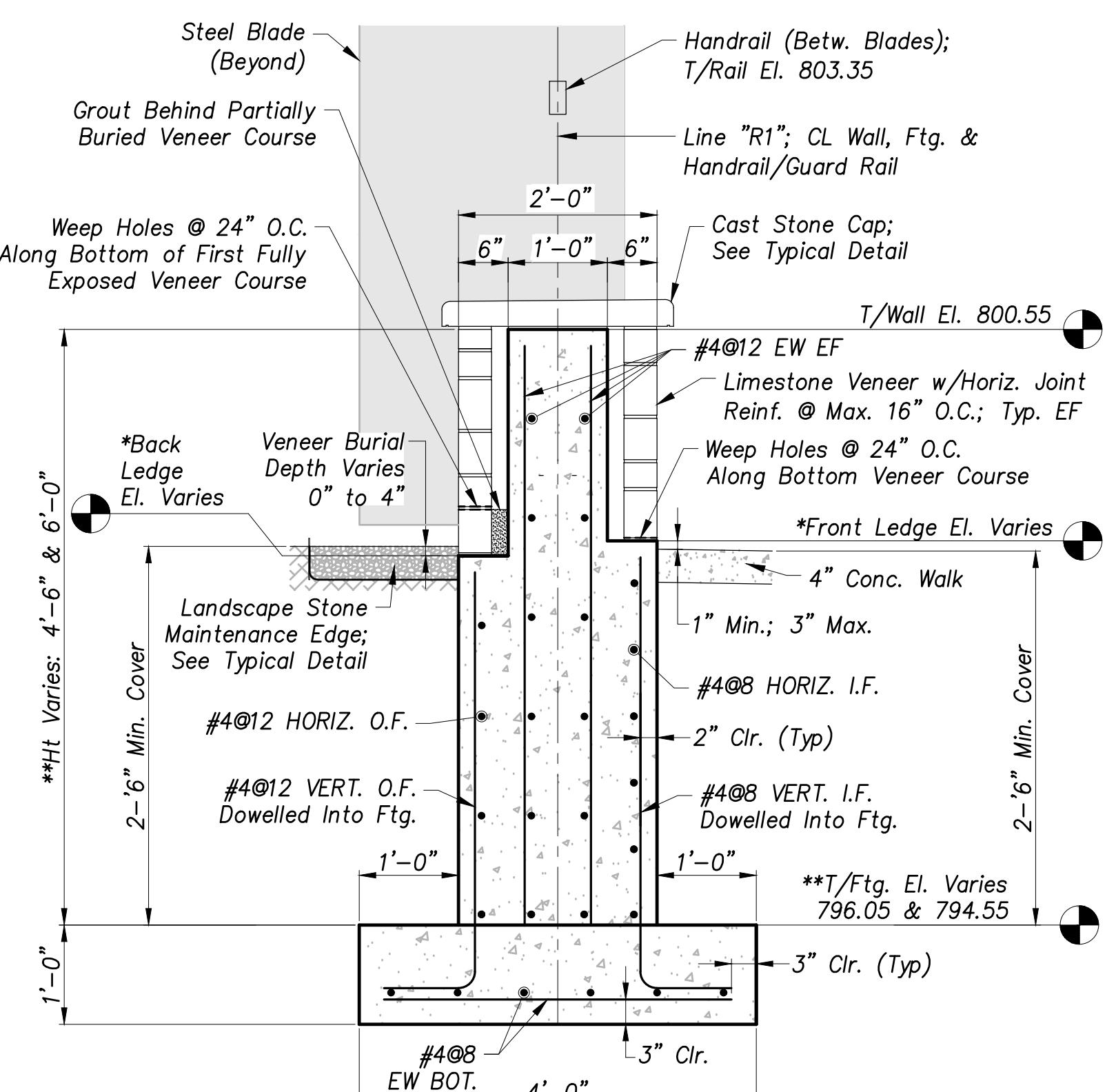
**Retaining Wall 2 - Section C2**  
Scale:  $3/4" = 1'-0"$  42

**STATE ROAD 19  
CORRIDOR IMPROVEMENTS  
(PA7663)**

PROJECT: **RETAINING WALL SECTIONS**

SHEET TITLE: **RETAINING WALL SECTIONS**

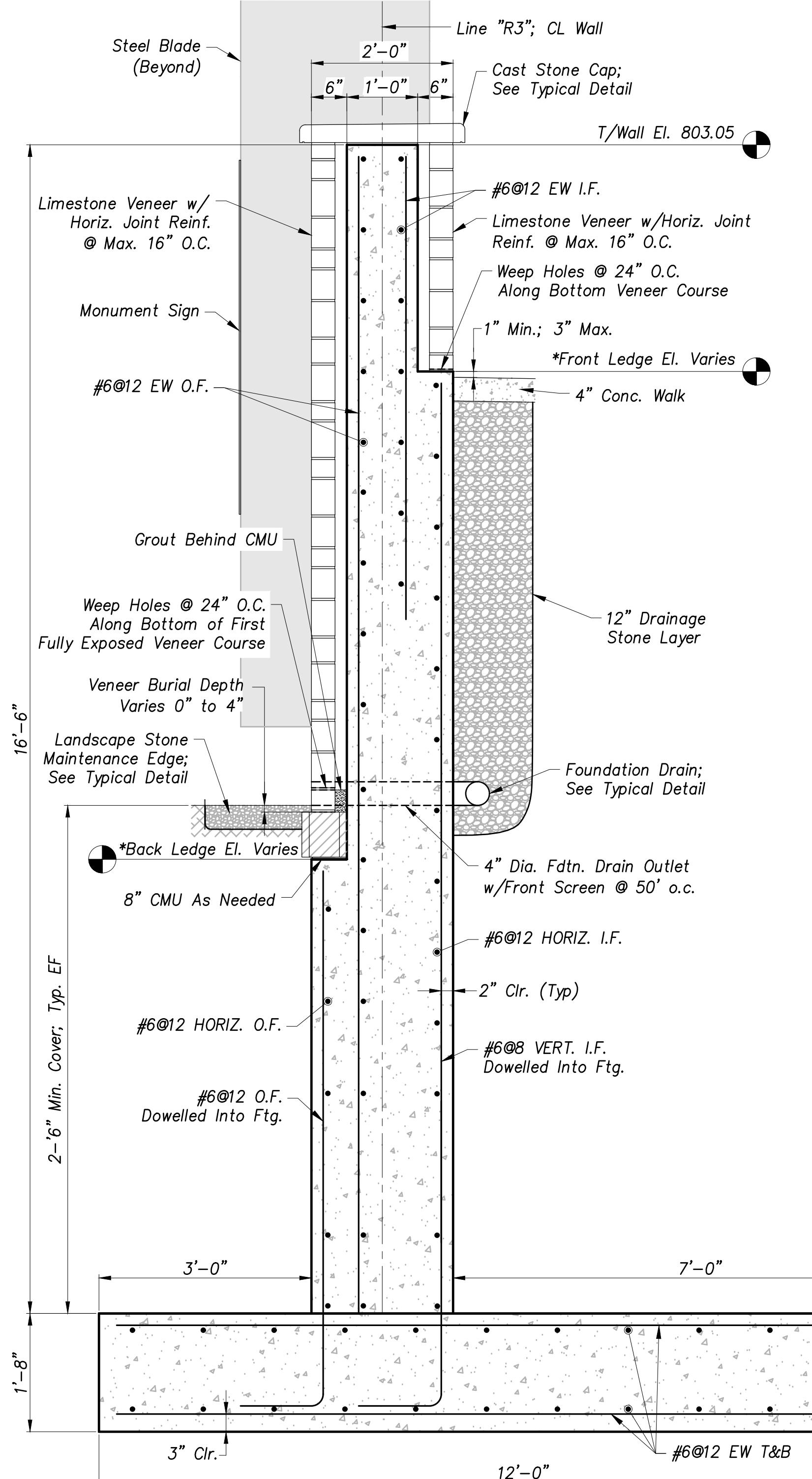
DRAWN BY: **NI**  
DESIGNED BY: **SFL**  
PM REVIEW: **RAN**  
QA/QC REVIEW: **DSK**  
DATE: **03/02/23**  
SEAL:   
SIGNATURE:   
DATE: **03/02/2023**  
SCALE: **HORZ: AS SHOWN  
VERT: N/A**  
ACI JOB #: **20-1114**  
SHEET NO.: **43 of 56**  
Revision: **43**

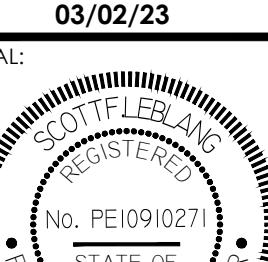


**GENERAL NOTES**

\*ALL SECTIONS, THIS SHEET:  
Front ledge and back ledge elevations vary along profile;  
See Retaining Wall 3 Front Elevation C & Back Ledge Profile, Sheet 37

\*\*SECTION A3:  
T/Ftg El. 796.05 at initial section of Retaining Wall 3 beginning at Sta. 300+00;  
T/Ftg El. 794.55 at terminal section of Retaining Wall 3 ending at Sta. 301+82.58;  
See Retaining Wall 3 Front Elevation C & Back Ledge Profile, Sheet 37





SIGNATURE: **Scott Fleebang**

DATE: **03/02/2023**

SCALE: **HORZ: AS SHOWN  
VERT: N/A**

ACI JOB #:

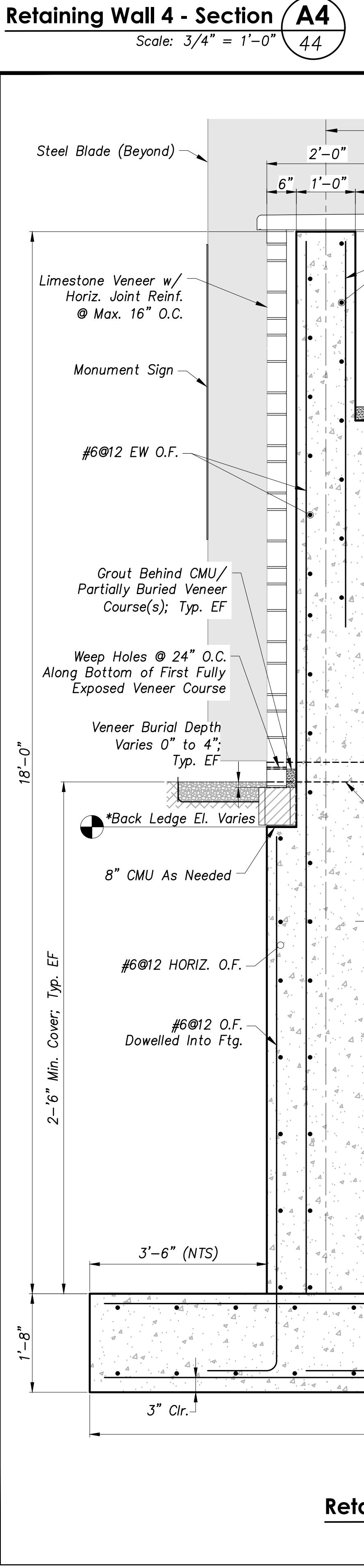
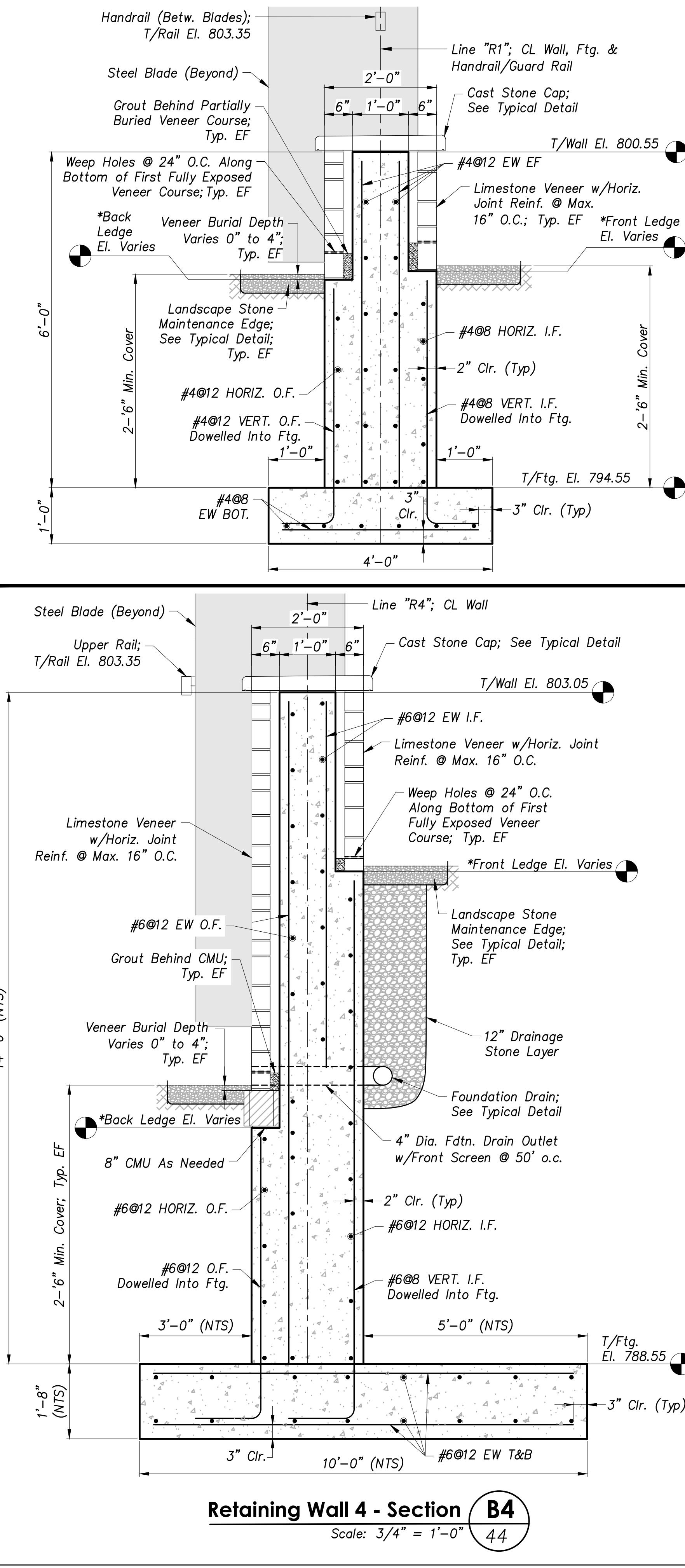
**20-1114**

SHEET NO.:

**44**

Revision: **44**

Page: **44 of 56**

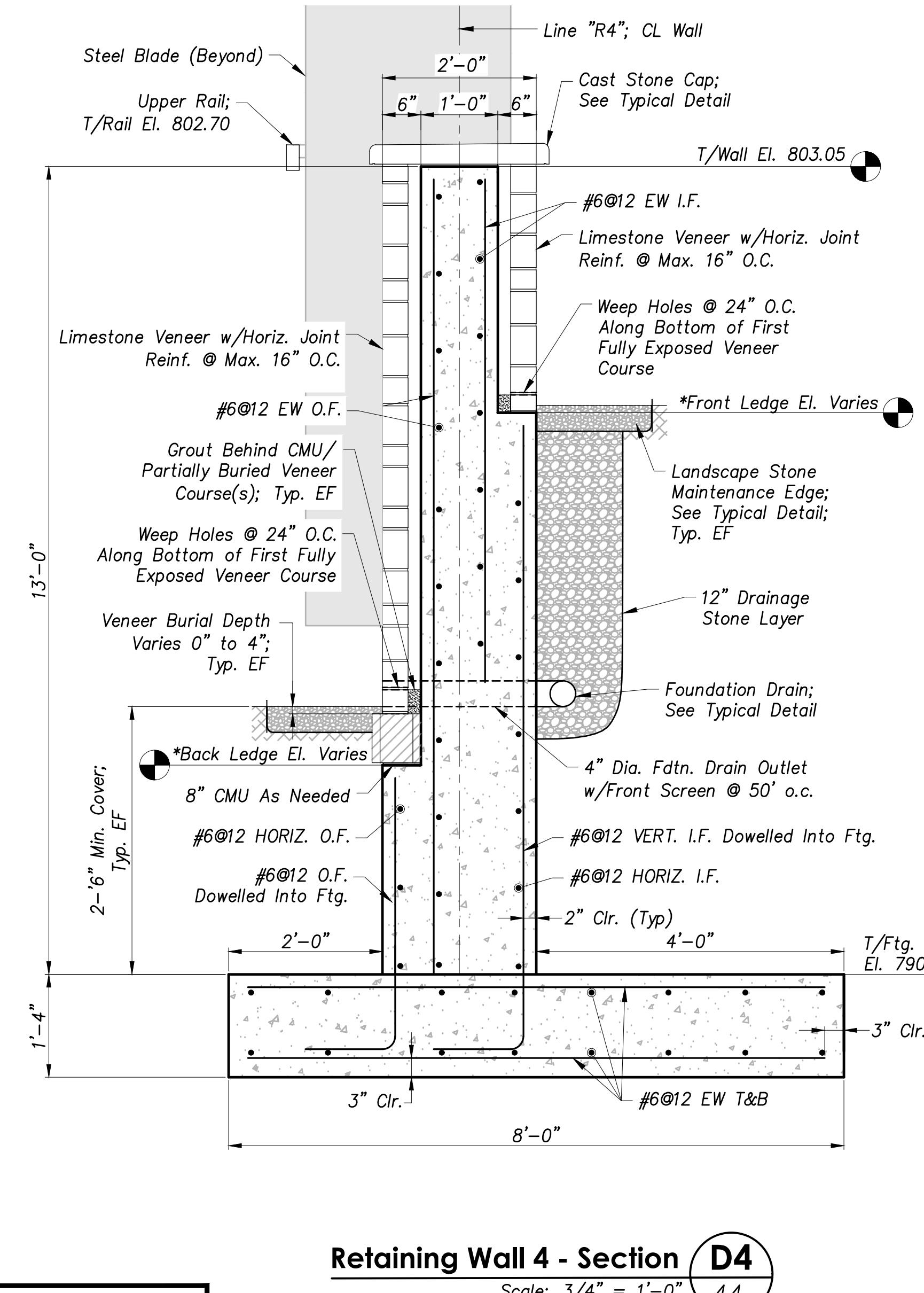


## GENERAL NOTES

\*ALL SECTIONS, THIS SHEET:  
Front ledge and back ledge elevations vary along profile;  
See Retaining Wall 4 Back Elevation D & Front Ledge Profile, Sheet 38

## HANDRAIL NOTE

Handrail shall be 4x2x1/4 steel tube, powder coat finish, color to be selected by Engineer during the shop drawing process.



**Retaining Wall 4 - Section D4**

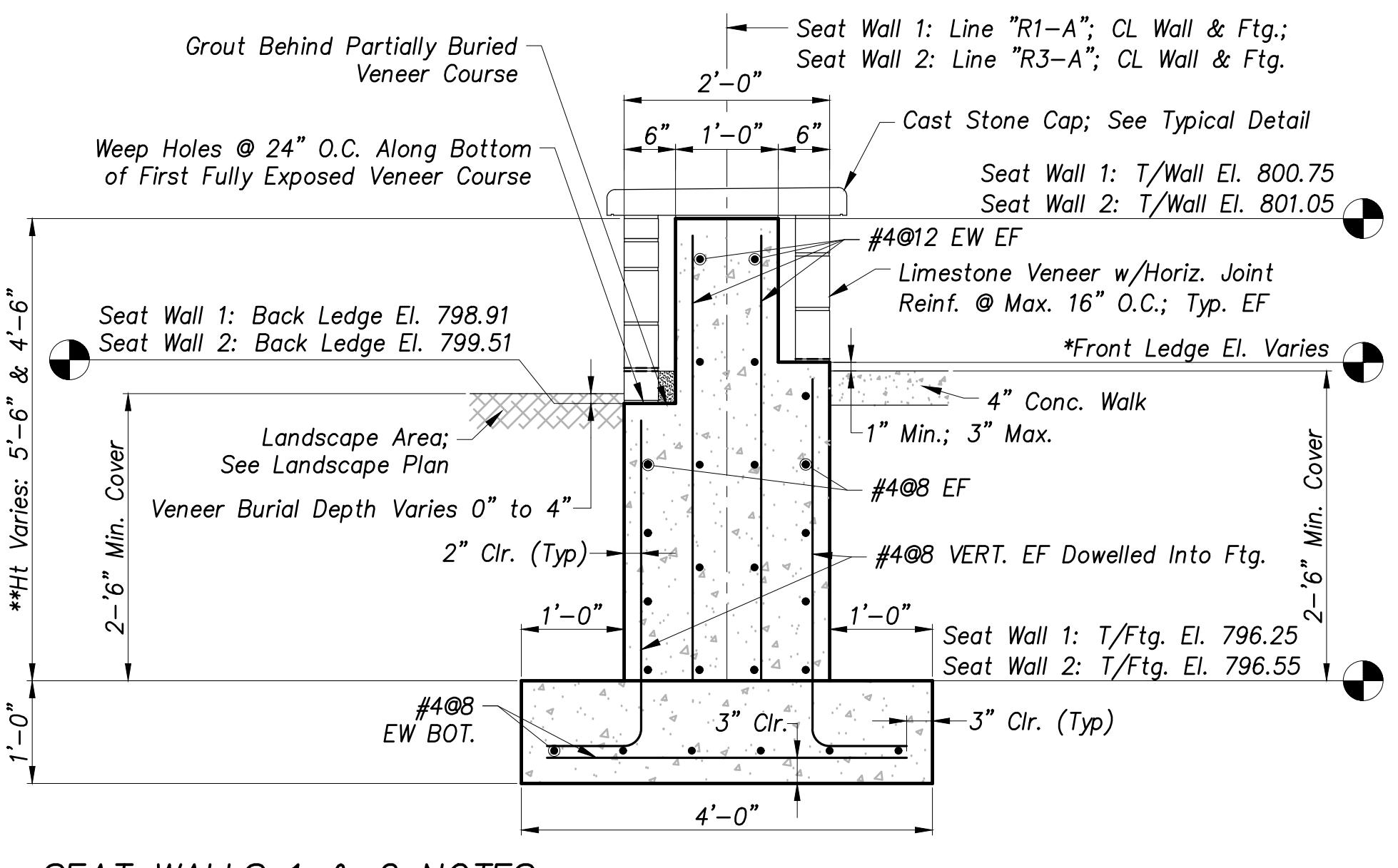
Scale: 3/4" = 1'-0" 44

**STATE ROAD 19 CORRIDOR IMPROVEMENTS (PA7663)**

PROJECT:

**RETAINING WALL SECTIONS & DETAILS**

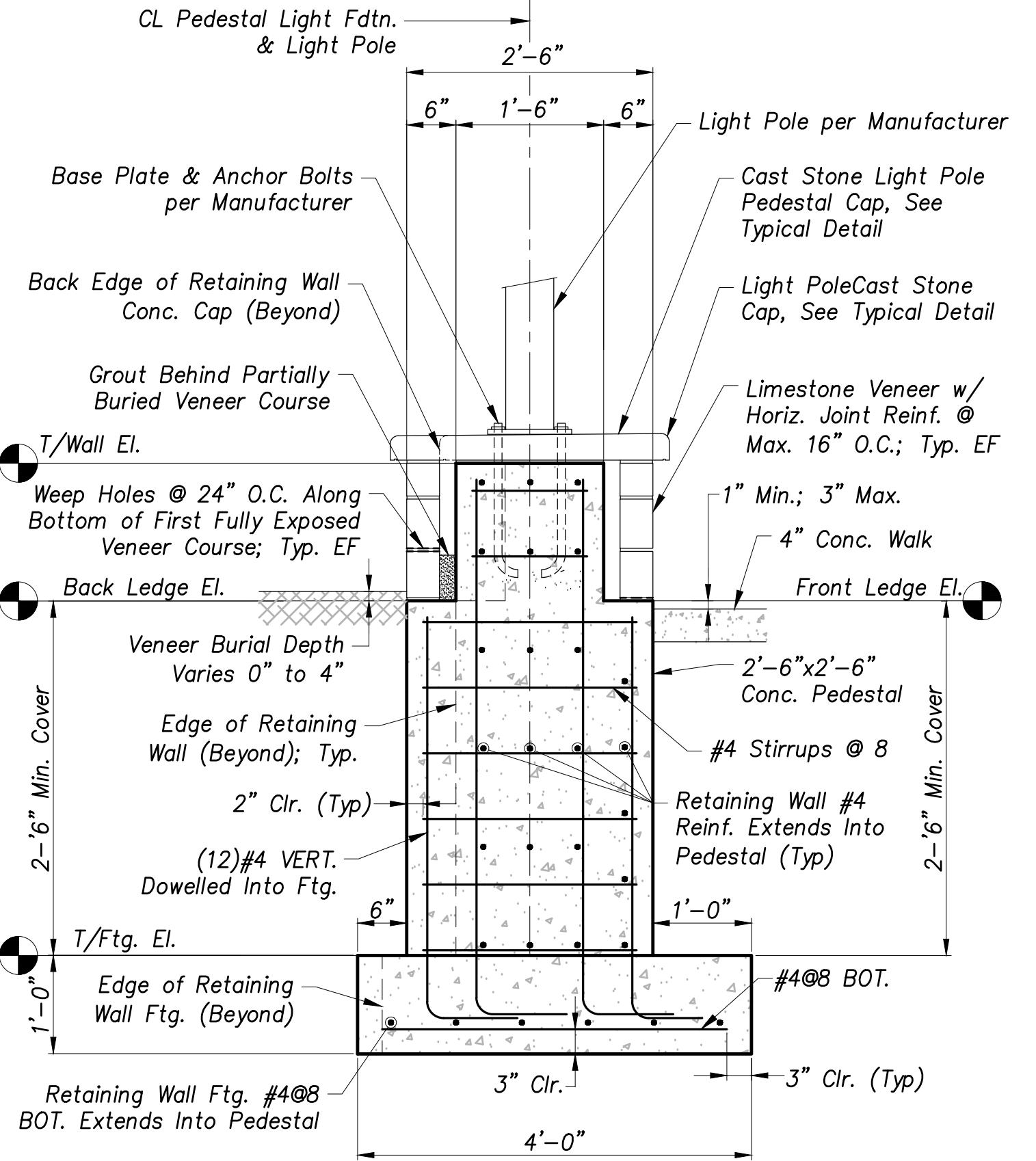
|               |   |  |
|---------------|---|--|
| SHEET TITLE:  |   |  |
| DRAWN BY:     | NI  |  |
| DESIGNED BY:  | SFL   |  |
| PM REVIEW:    | RAN   |  |
| QA/QC REVIEW: | DSK   |  |
| DATE:         | 03/02/23  |  |
| SEAL:         | <br>NO. PEI091027<br>STATE OF<br>INDIANA<br>PROFESSIONAL ENGINEER |  |
| SIGNATURE:    | <br>DATE:<br>03/02/2023   |  |
| SCALE:        | HORIZ: AS SHOWN<br>VERT: N/A                                      |  |
| ACI JOB #:    | 20-1114   |  |
| SHEET NO.:    | 45 of 56  |  |
| Comments:     | Architectural - March 03, 2023 - 45.dwg                           |  |



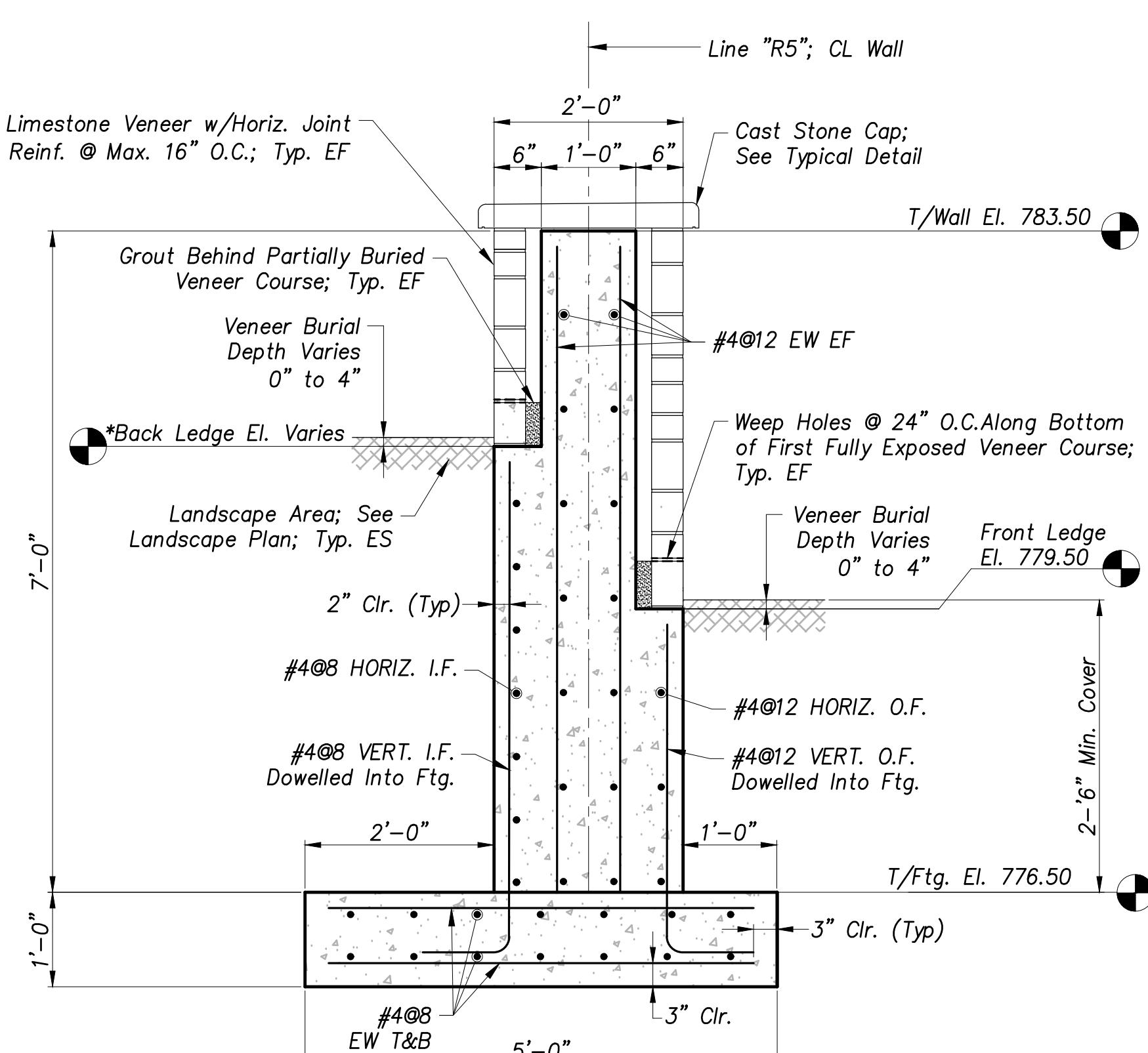
**SEAT WALLS 1 & 2 NOTES**

\*Front ledge elevations vary along profile;  
For Seat Wall 1, See Sheet 39  
For Seat Wall 2, See Sheet 41

**Seat Walls 1 & 2 - Typical Section F**  
Scale:  $3/4'' = 1'-0''$  45



**Retaining Wall Integral Light Foundation Typical Section J**  
Scale:  $3/4'' = 1'-0''$  45



**WALL 5 NOTES**

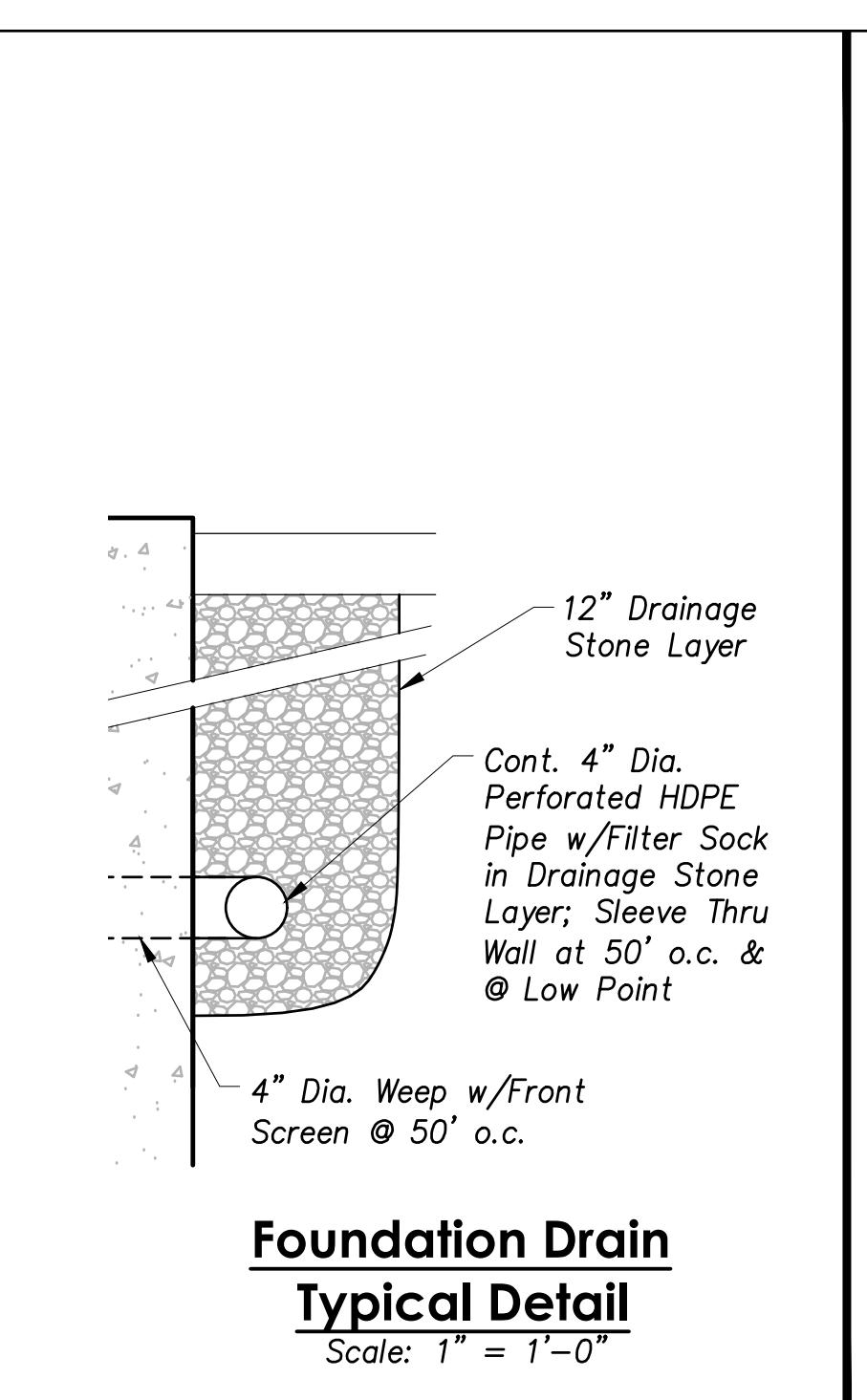
\*Back ledge elevations vary along profile;  
See Retaining Wall 5 Back Ledge Profile, Sheet 38

**Retaining Wall 5 - Section G**  
Scale:  $3/4'' = 1'-0''$  45

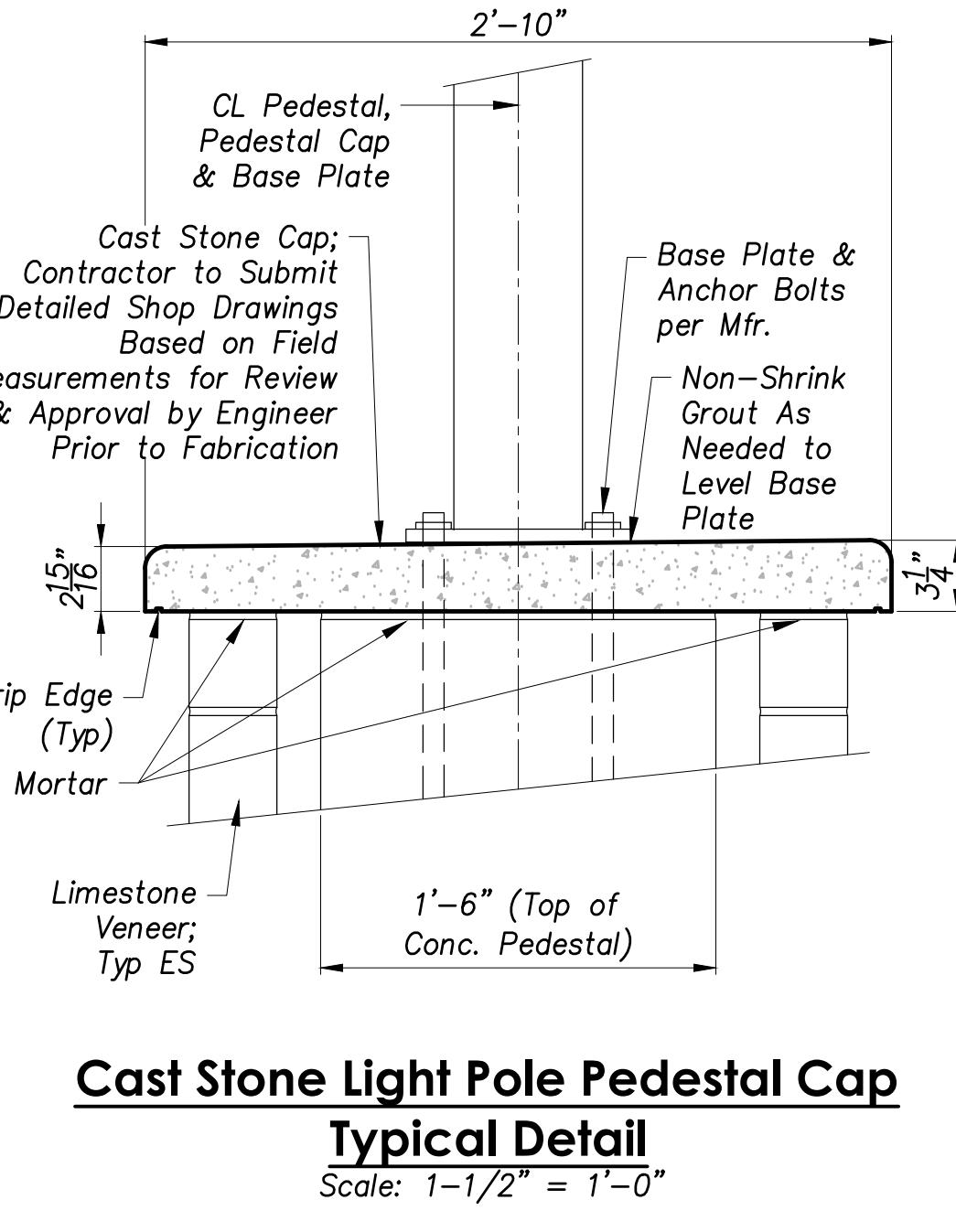
**SEAT WALL 3 NOTES**

\*Front ledge elevations vary along profile; See Seat Wall 3 Profile, Sheet 38

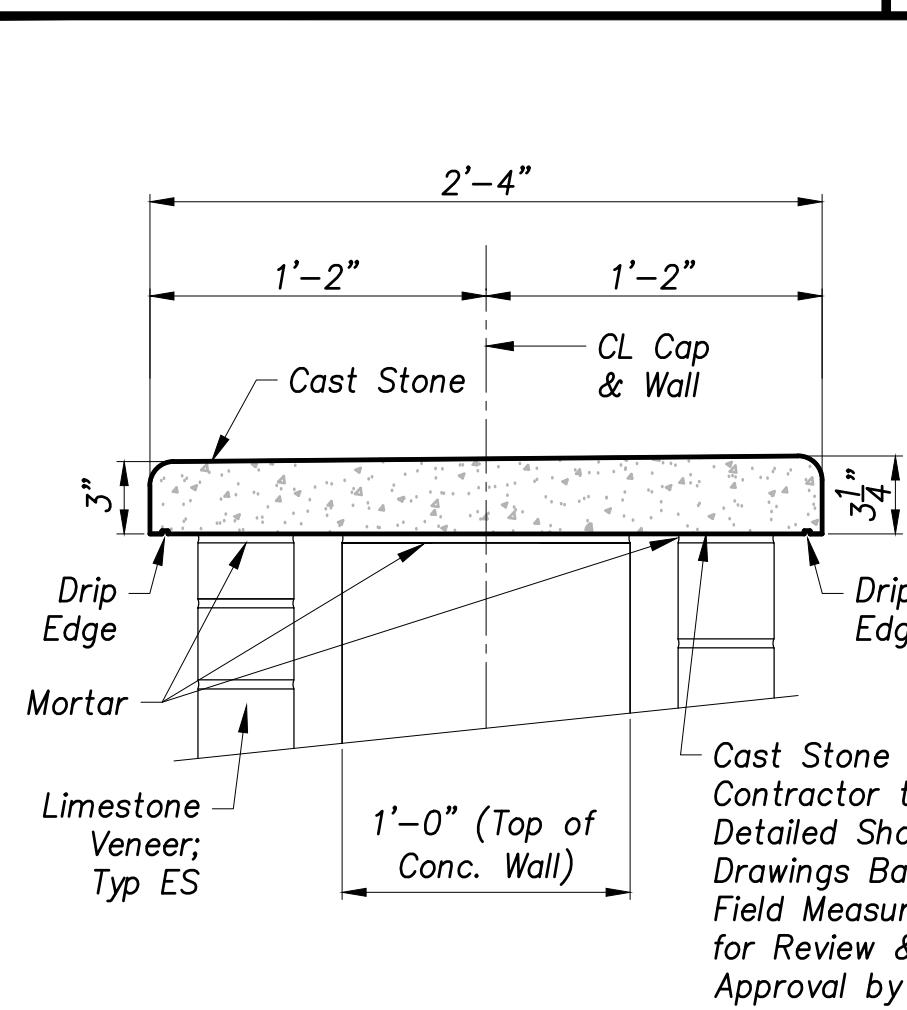
**Seat Wall 3 - Section H**  
Scale:  $3/4'' = 1'-0''$  45



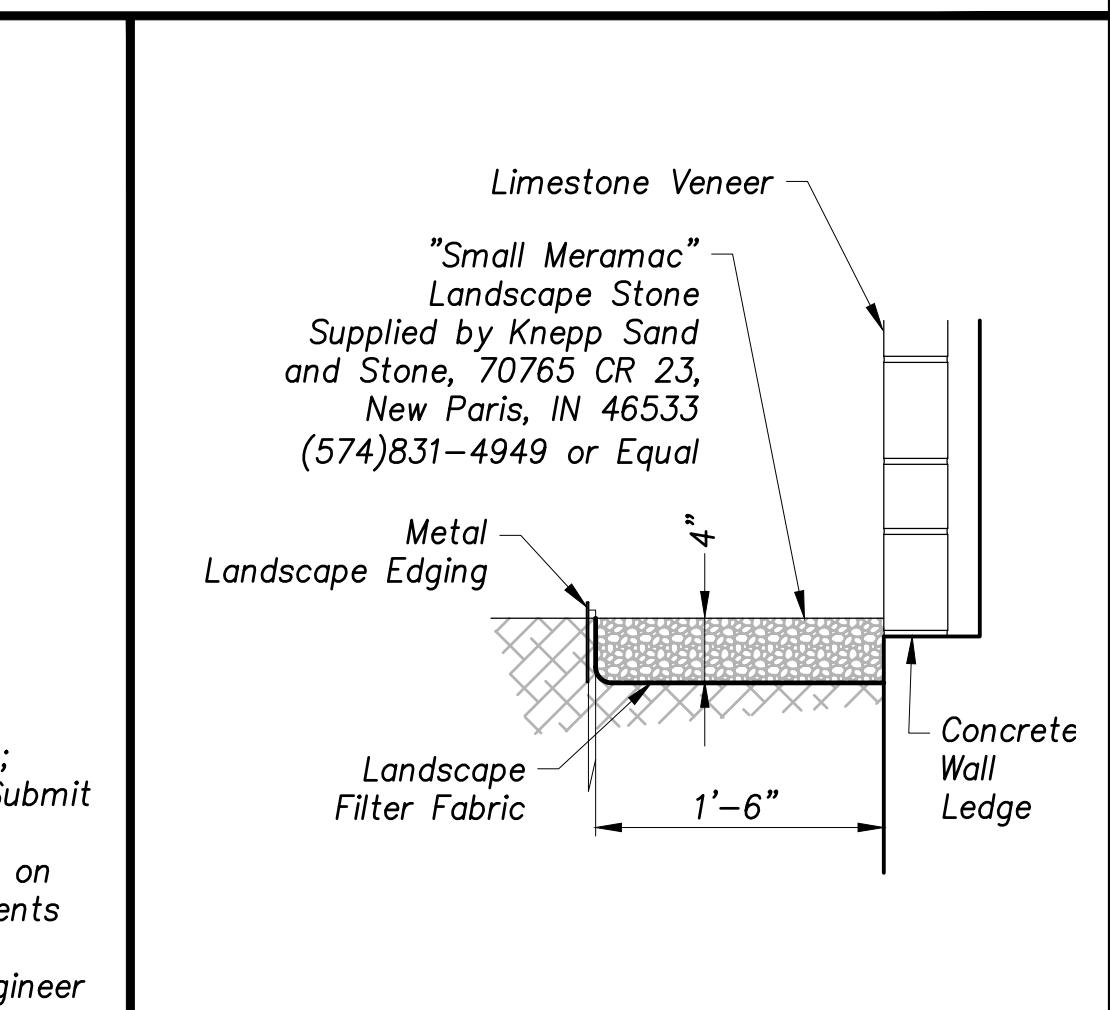
**Foundation Drain Typical Detail**  
Scale:  $1'' = 1'-0''$



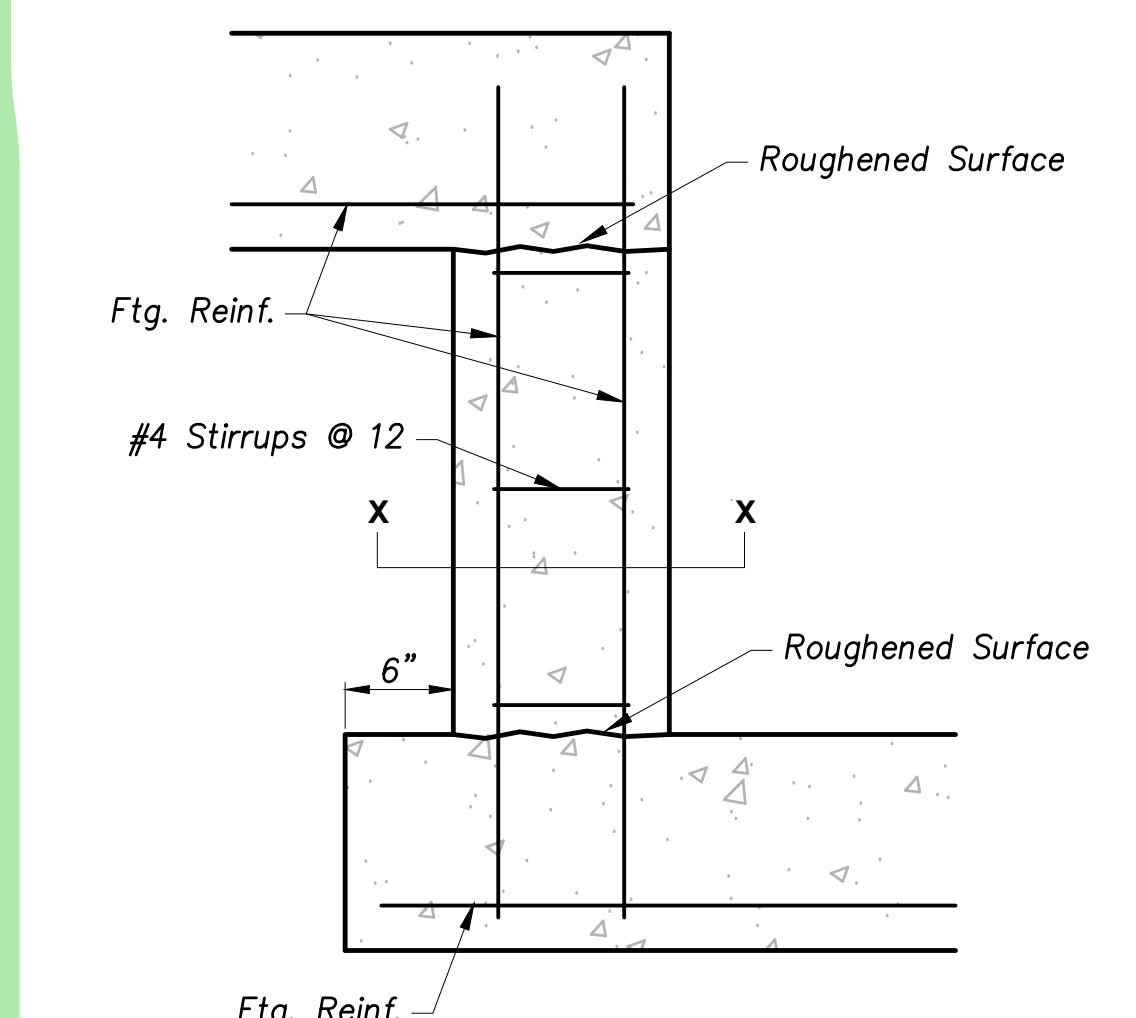
**Cast Stone Light Pole Pedestal Cap Typical Detail**  
Scale:  $1-1/2'' = 1'-0''$



**Cast Stone Cap Typical Detail**  
Scale:  $1-1/2'' = 1'-0''$



**Landscape Maintenance Ledge Typical Detail**  
Scale:  $1'' = 1'-0''$



SECTION X-X

**Step Footing Typical Detail**  
NTS

| NO. | REVISION DESCRIPTION | BY | DATE |
|-----|----------------------|----|------|
|     |                      |    |      |

**STATE ROAD 19  
CORRIDOR IMPROVEMENTS  
(PA7663)**

PROJECT:

**STEEL DETAILS**

SHEET TITLE:

DRAWN BY:

NI

DESIGNED BY:

SFL

PM REVIEW:

RAN

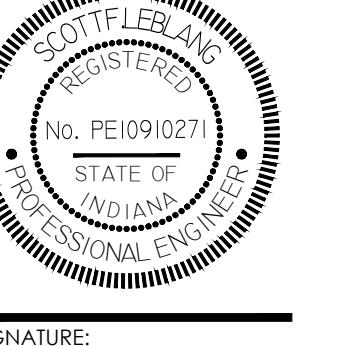
QA/QC REVIEW:

DSK

DATE:

03/02/23

SEAL:



SIGNATURE:

SCOTT LEIBANG

DATE:

03/02/2023

SCALE:

HORZ: AS SHOWN

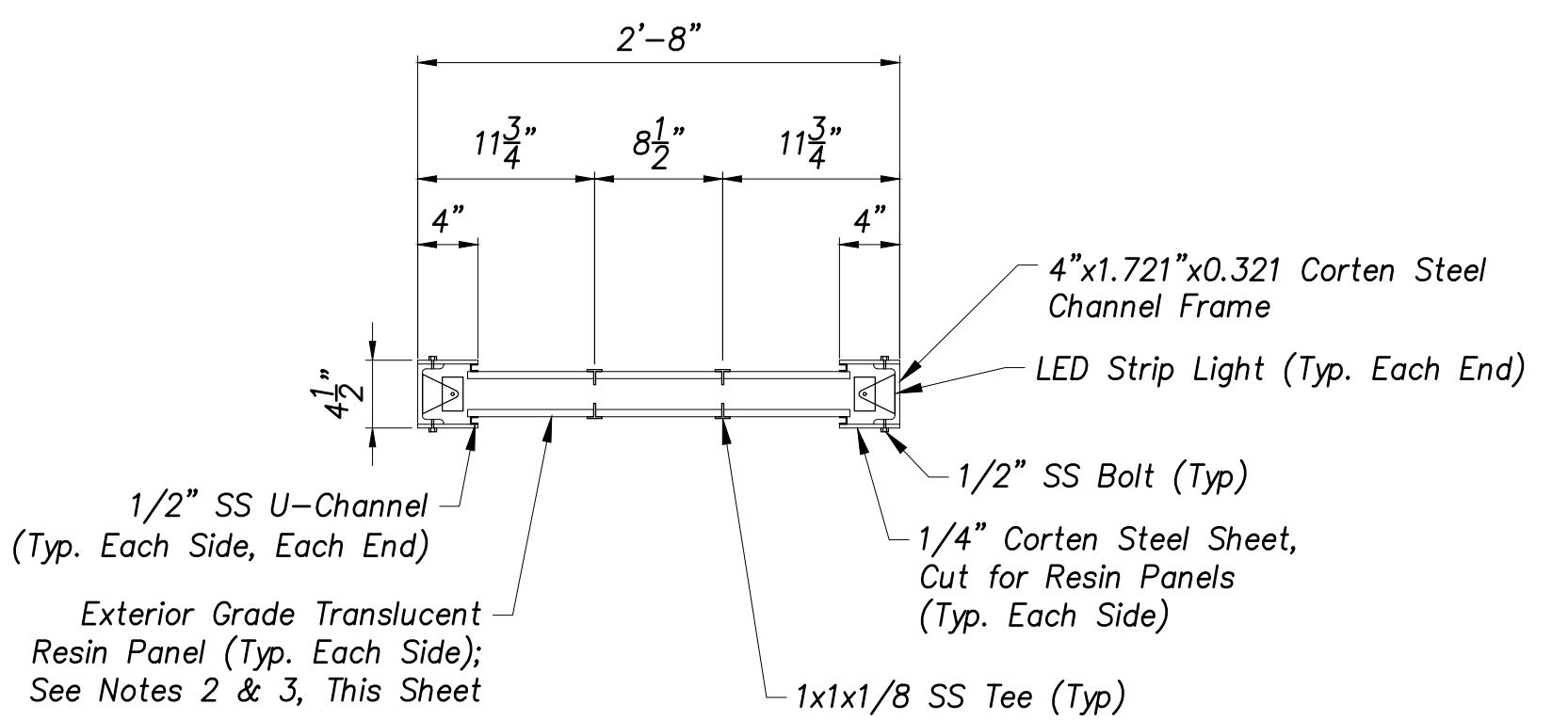
VERT: N/A

ACI JOB #

20-1114

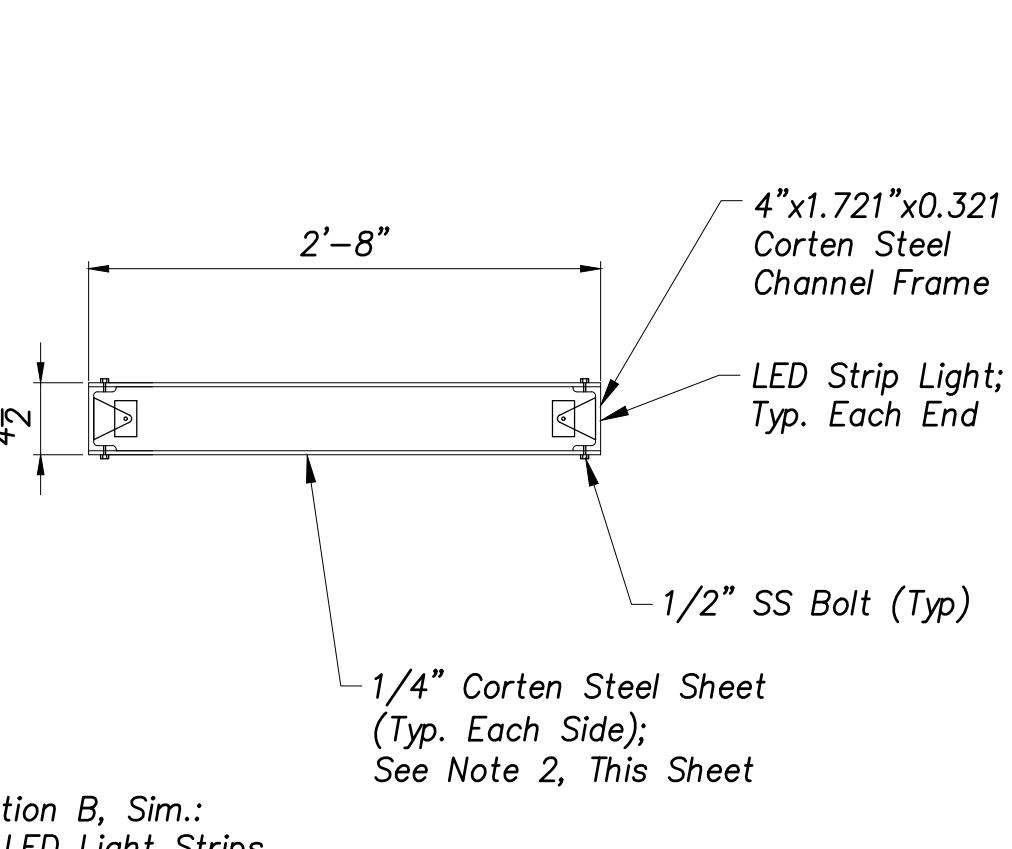
SHEET NO.

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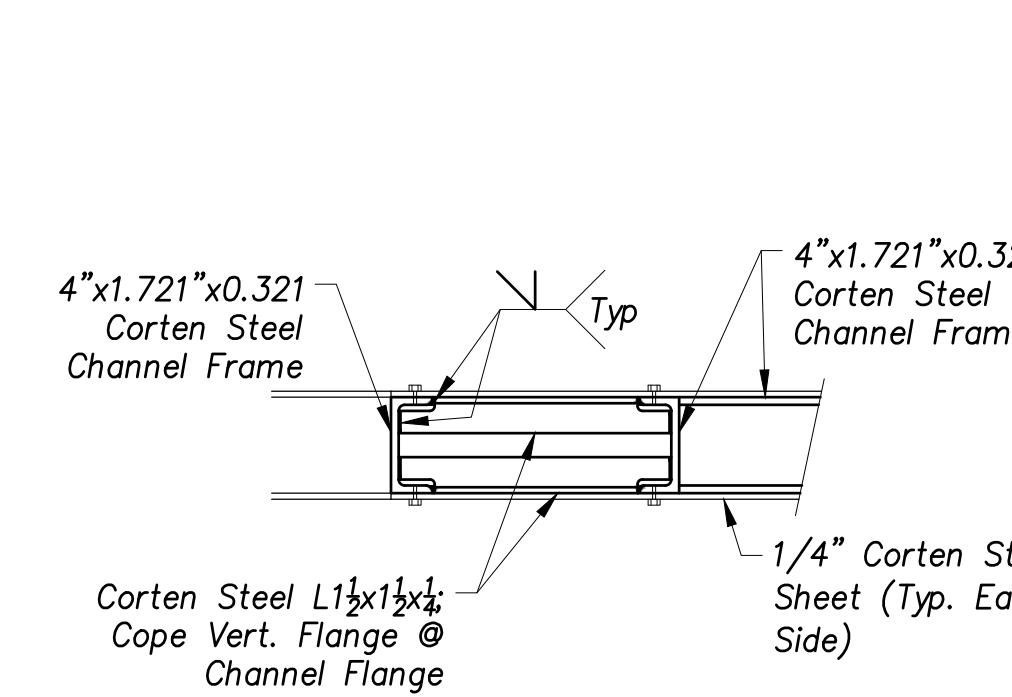
**Corten Steel Blade Type A - Section A**

Scale: 1" = 1'-0" 46



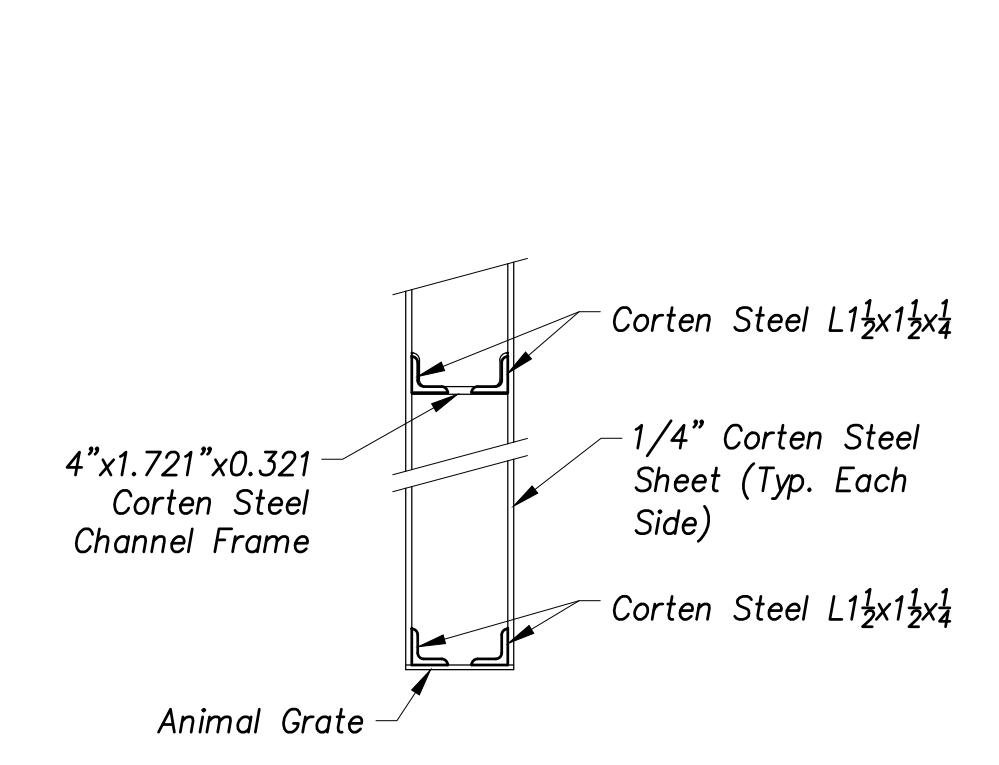
**Corten Steel Blade Type B - Section B**

Scale: 1" = 1'-0" 46



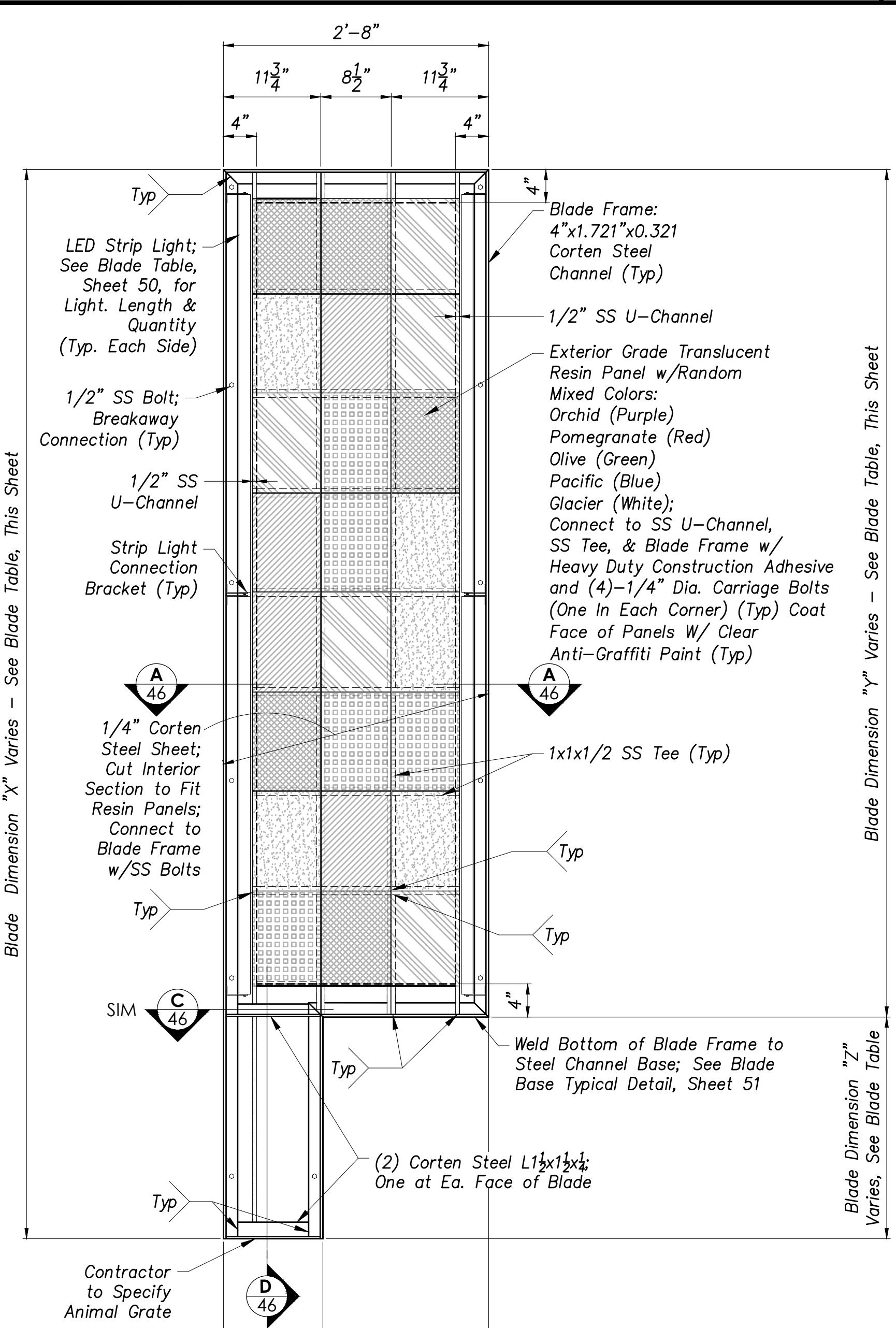
**Corten Steel Blade Typical Section C**

Scale: 1 1/2" = 1'-0" 46



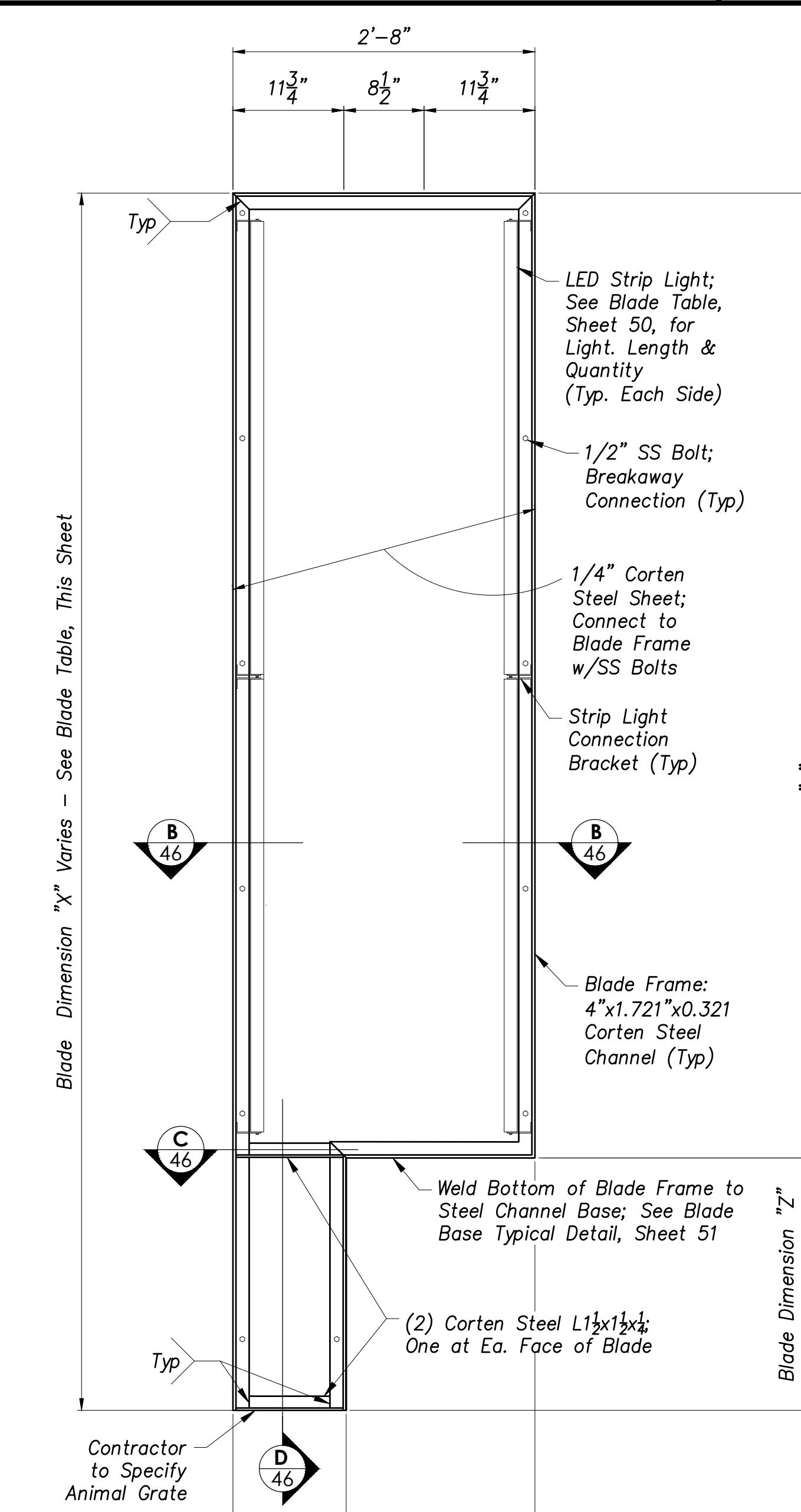
**Corten Steel Blade Typical Section D**

Scale: 1 1/2" = 1'-0" 46



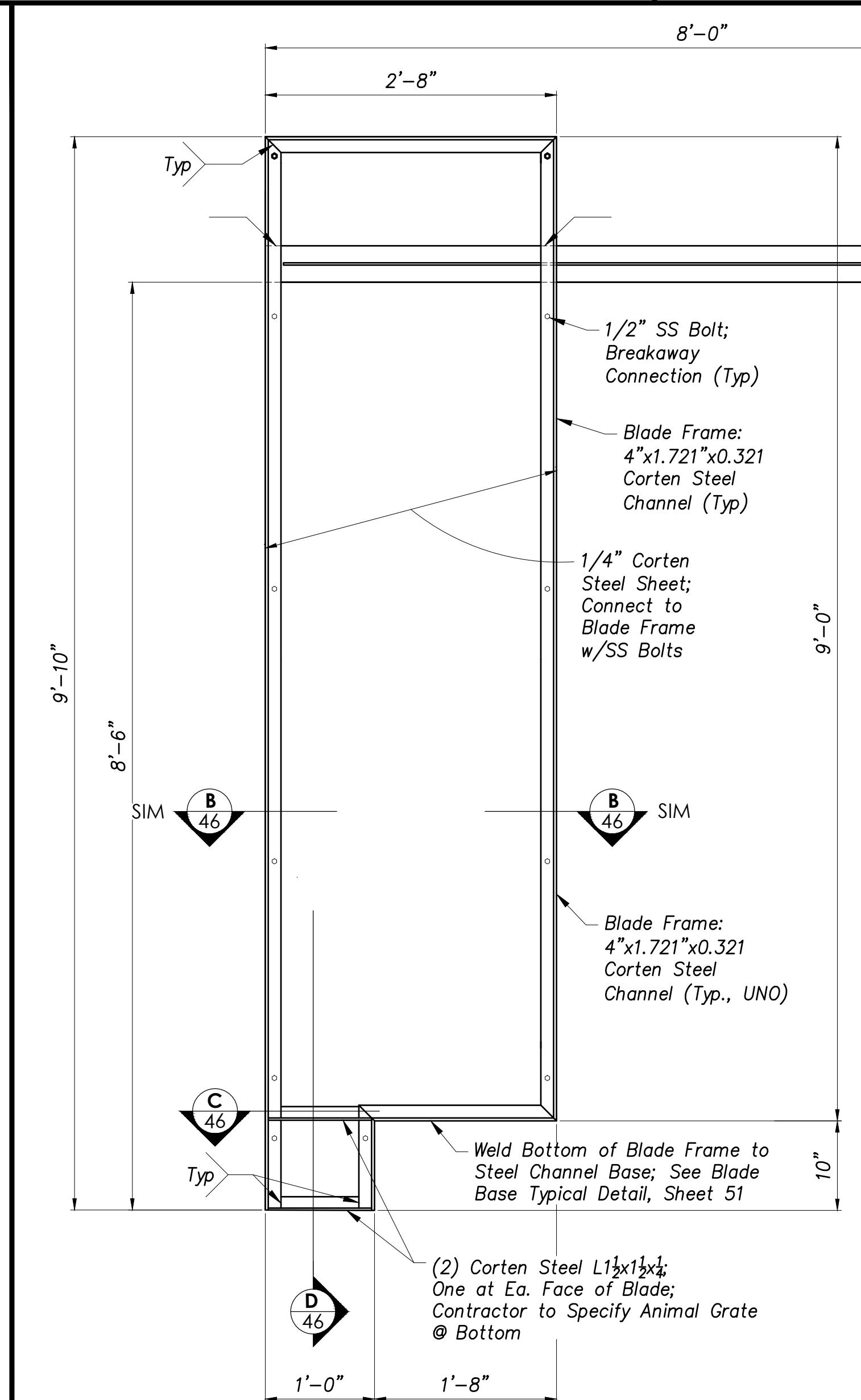
**Corten Steel Blade Type A - Section 1**

Scale: 1" = 1'-0" 46



**Corten Steel Blade Type B - Section 2**

Scale: 1" = 1'-0" 46

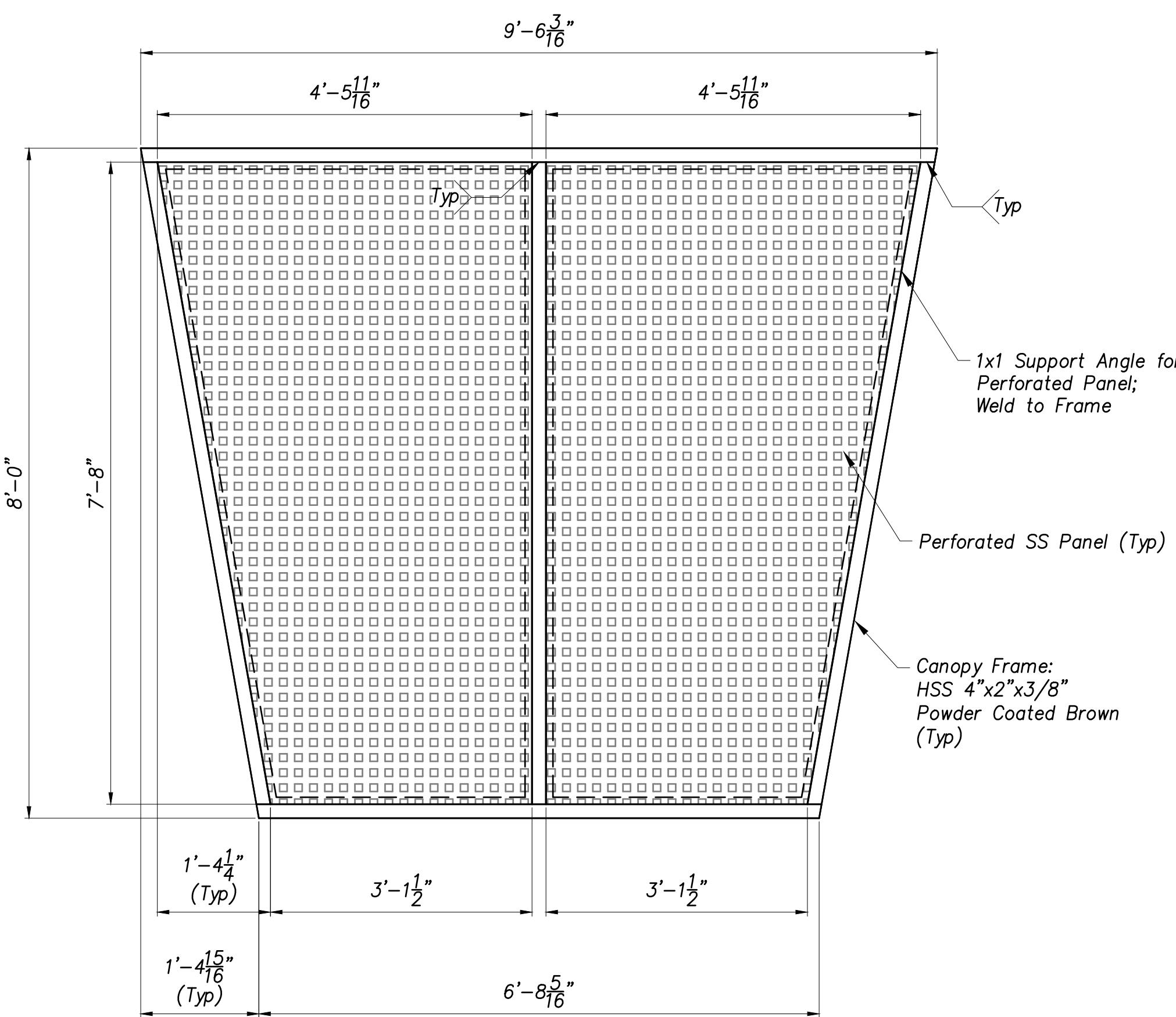


**Corten Steel Blade Type C - Section 3**

Scale: 1" = 1'-0" 46

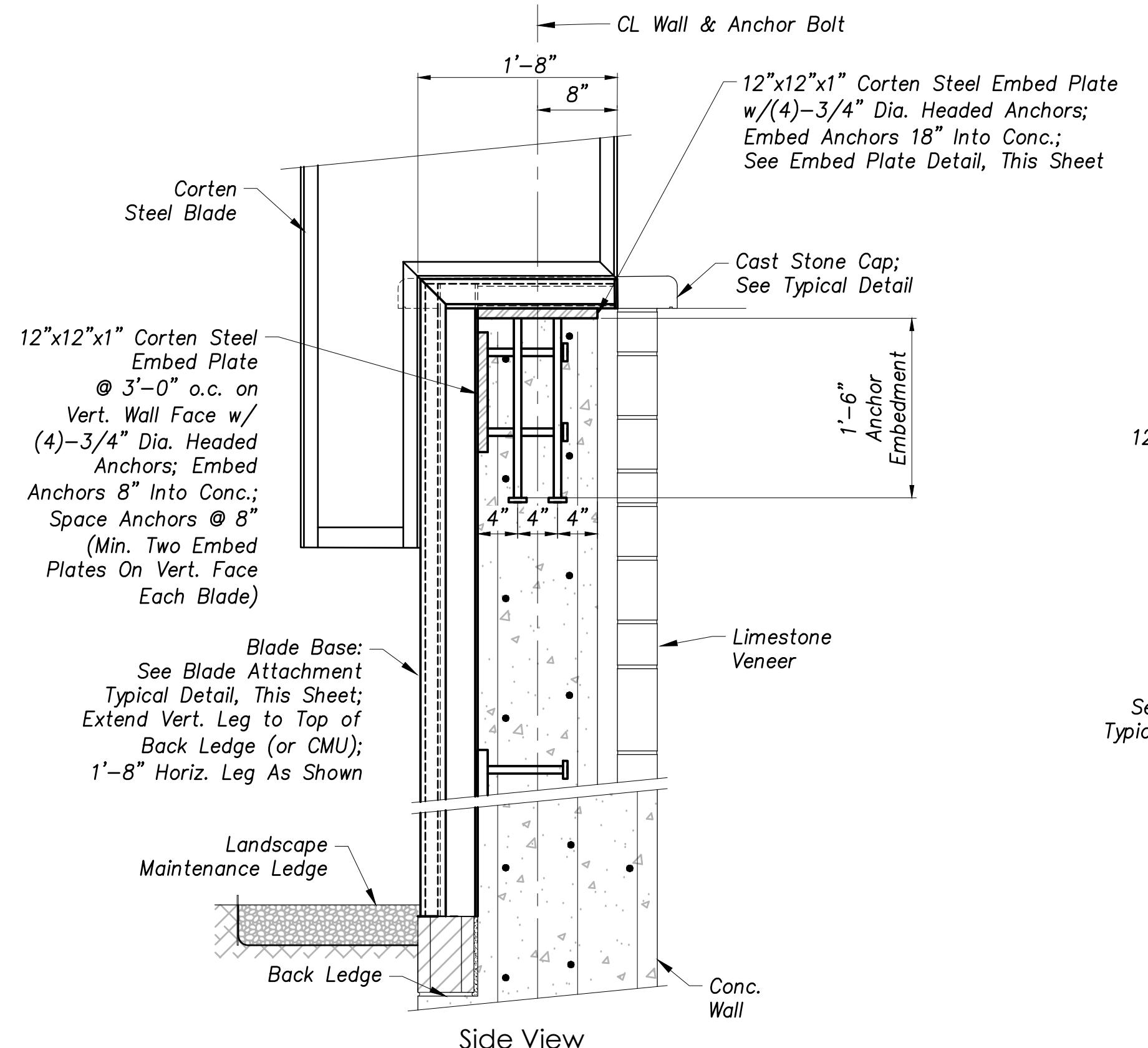
| BLADE TABLE |                    |                |        |                     |
|-------------|--------------------|----------------|--------|---------------------|
|             | Section Dimensions | LED Strip Lts. |        |                     |
| Mark        | "X"                | "Y"            | "Z"    |                     |
|             | (Qty.)             | Lghth.         |        |                     |
| A-1         | 15'-6"             | 7'-0"          | 8'-6"  | (4) 3'-0"           |
| A-2         | 17'-0"             | 7'-9"          | 9'-3"  | (2) 4'-0"/(2) 3'-0" |
| A-3         | 18'-6"             | 8'-6"          | 10'-0" | (4) 4'-0"           |
| B-1         | 5'-0"              | 4'-3"          | 0'-9"  | N/A                 |
| B-2         | 5'-9"              | 5'-0"          | 0'-9"  | N/A                 |
| B-3         | 6'-6"              | 5'-9"          | 0'-9"  | N/A                 |
| B-4         | 7'-3"              | 6'-6"          | 0'-9"  | N/A                 |
| B-5         | 9'-9"              | 4'-9"          | 5'-0"  | N/A                 |
| B-6         | 11'-9"             | 5'-6"          | 6'-3"  | N/A                 |
| B-7         | 14'-0"             | 6'-3"          | 7'-9"  | N/A                 |

|               |   |
|---------------|---|
| SHEET TITLE:  | NI  |
| DRAWN BY:     | SFL   |
| DESIGNED BY:  | SFL   |
| PM REVIEW:    | RAN   |
| QA/QC REVIEW: | DSK   |
| DATE:         | 03/02/23  |
| SEAL:         | SCOTT FLEEBANG<br>REGISTERED<br>NO. PEI091027<br>STATE OF<br>INDIANA<br>PROFESSIONAL ENGINEER |
| SIGNATURE:    |   |
| DATE:         | 03/02/2023  |
| SCALE:        | HORZ: AS SHOWN<br>VERT: N/A   |
| ACI JOB #:    | 20-1114   |
| SHEET NO.     | 47 of 56  |



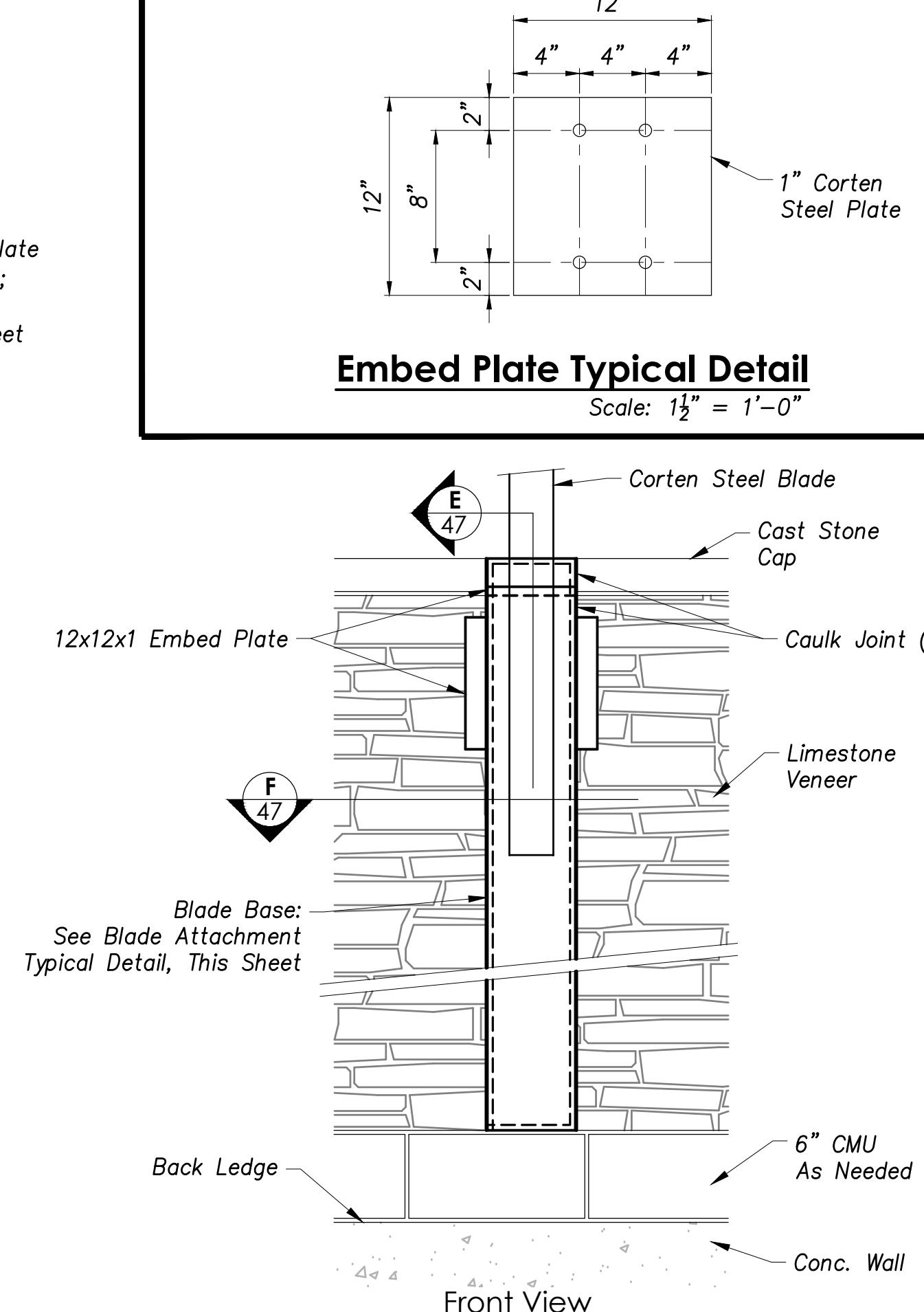
**Perforated Corten Steel Canopy Typical Detail**

Scale: 3/4" = 1'-0"



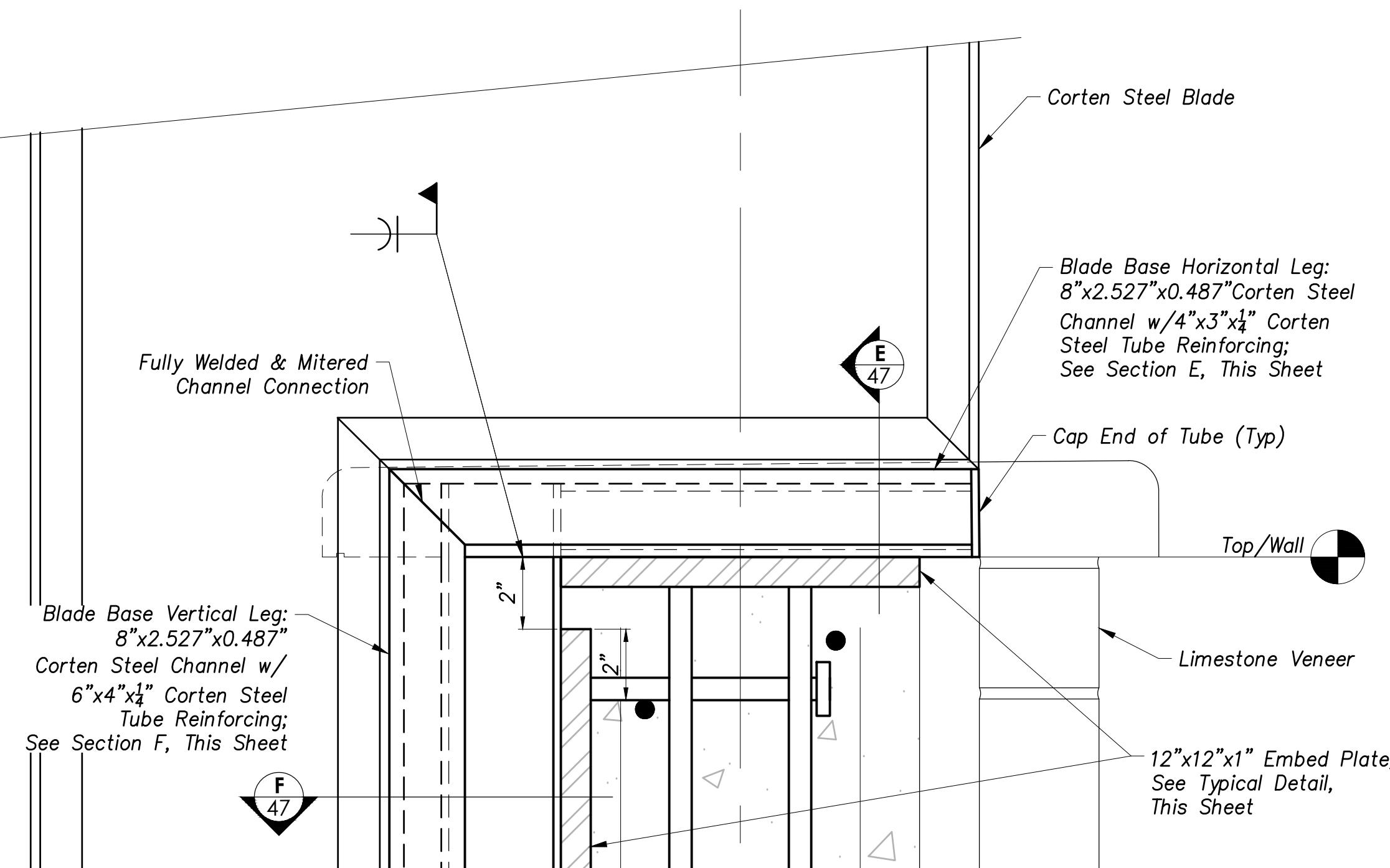
**Blade Base Typical Detail**

Scale: 1" = 1'-0"



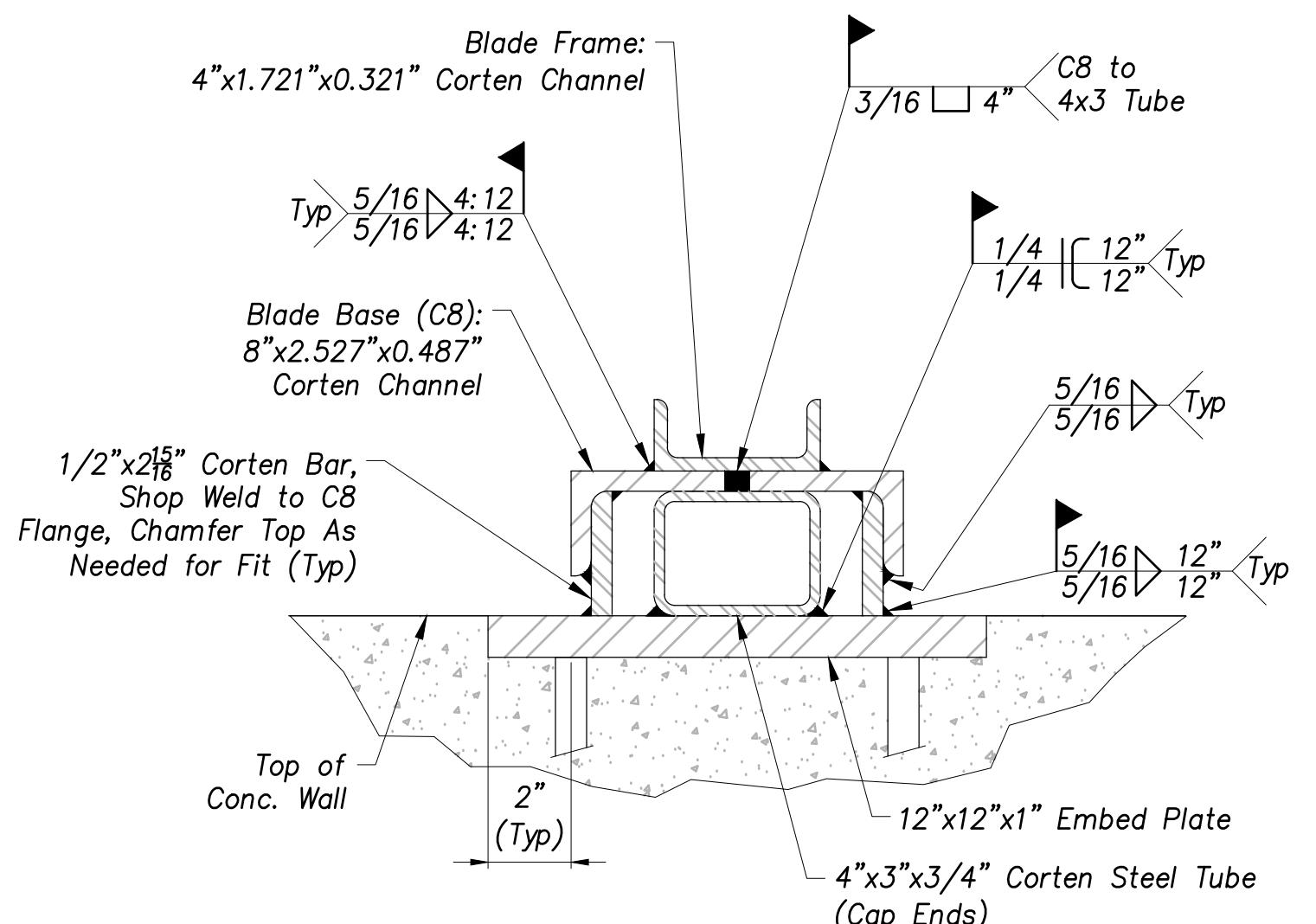
**Embed Plate Typical Detail**

Scale: 1 1/2" = 1'-0"



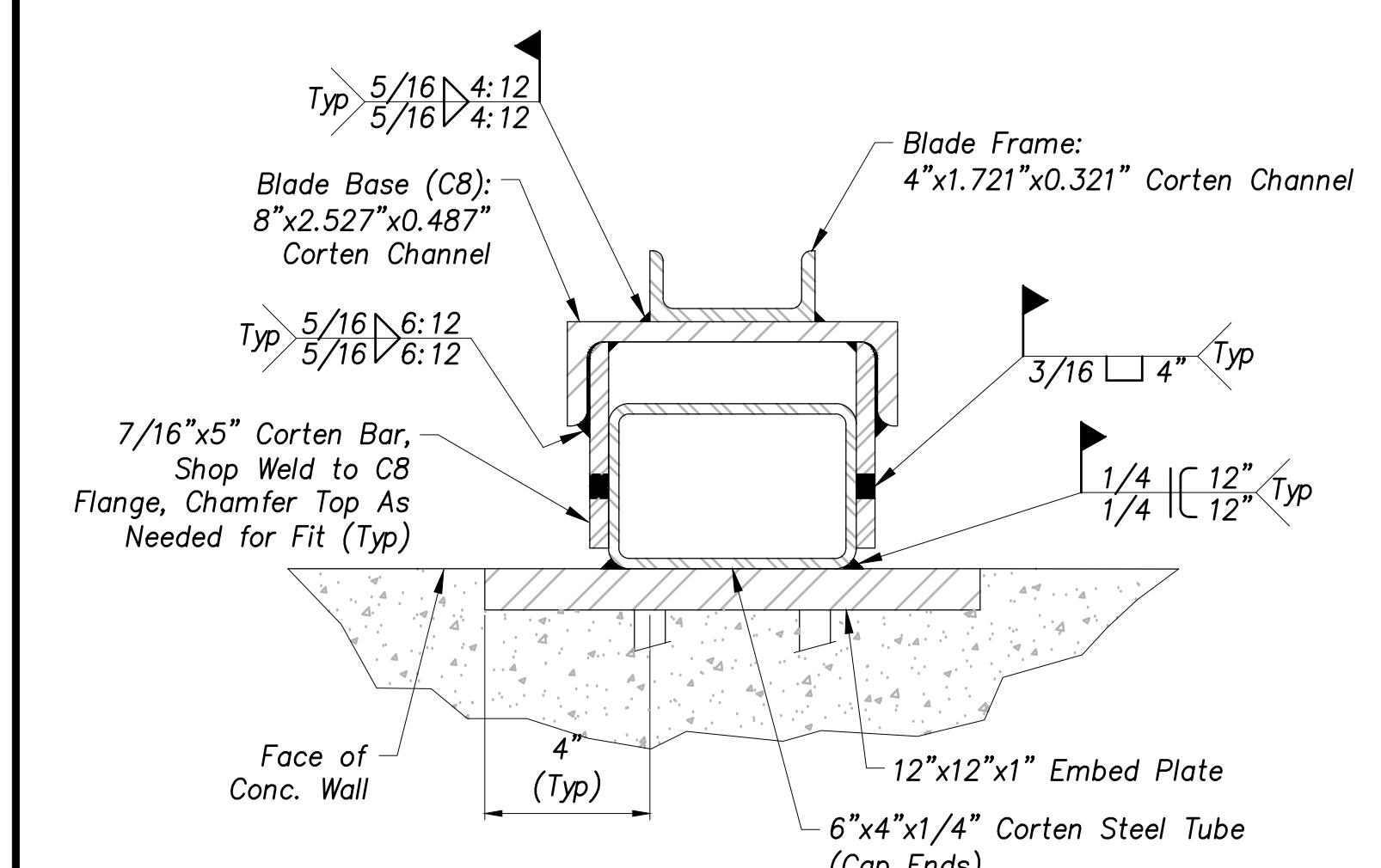
**Blade Attachment Typical Detail**

Scale: 3" = 1'-0"



**Blade Base Section E**

Scale: 3" = 1'-0" 47



**Blade Base Section F**

Scale: 3" = 1'-0" 47