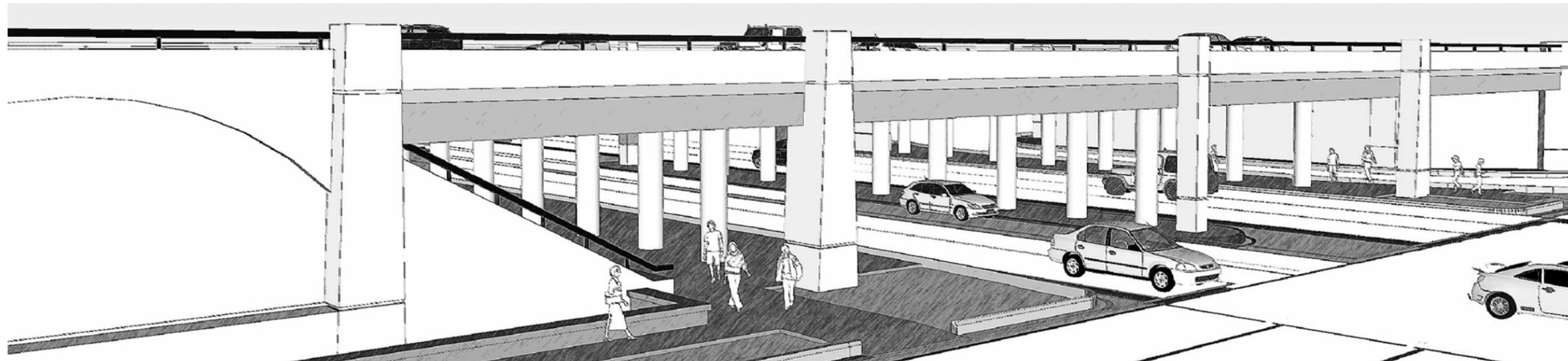


**Texas Department of Transportation**  
**TECHNICAL PROVISIONS**

**STATE HIGHWAY 71 TOLL LANES**

**Attachment 15-1**  
**Aesthetic Guidelines**

SH71  
Express  
Project



SH 71 AESTHETIC GUIDELINES

AESTHETIC COMPONENTS

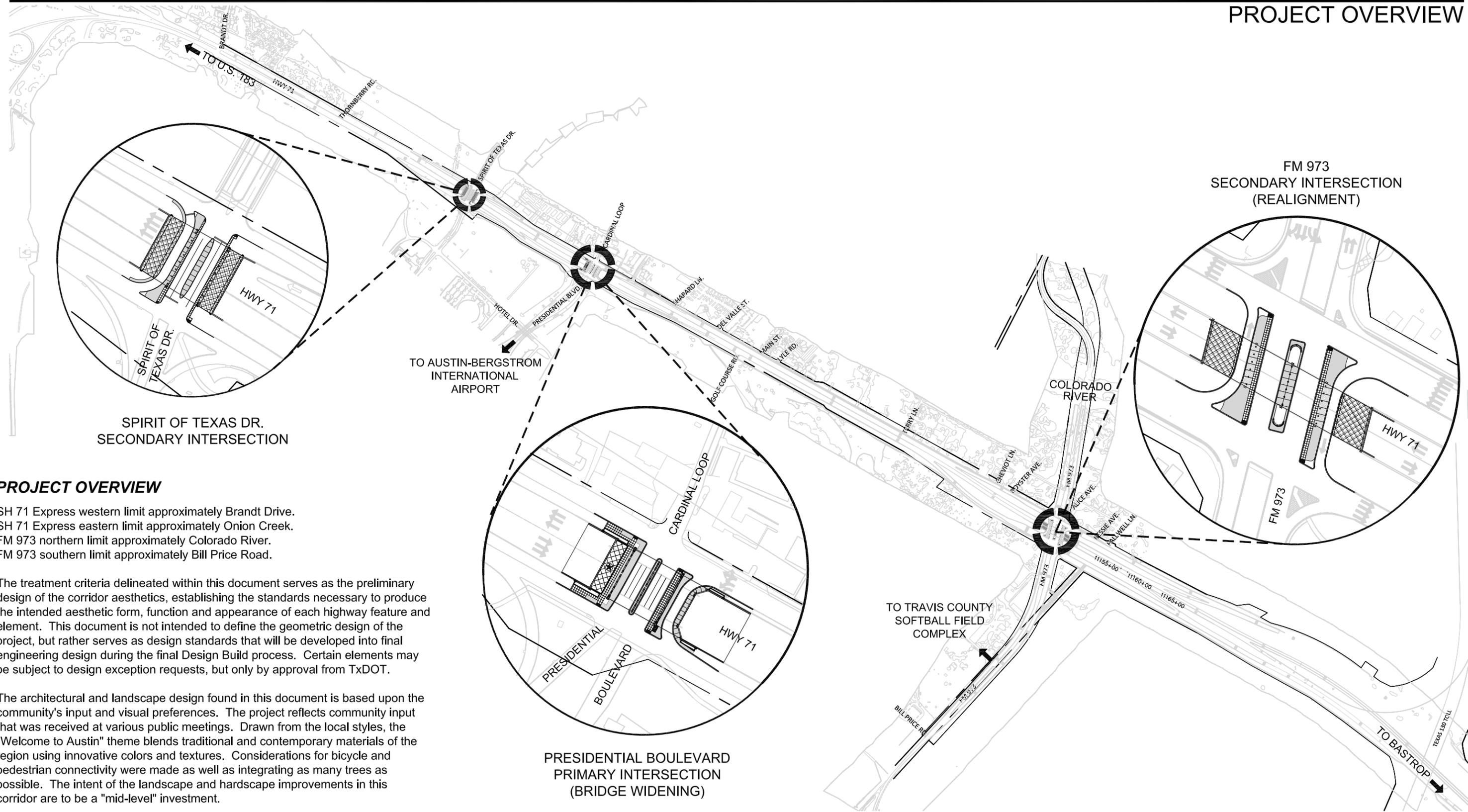
<b>Project Overview</b>	<b>Sheet 1</b>
Presidential Boulevard	Sheet 2
Spirit of Texas Drive	Sheet 3
FM 973	Sheet 4
SH 130 Aesthetic Coordination	Sheet 5
<b>1.0 Retaining Walls</b>	<b>Sheet 6</b>
Presidential Boulevard	Sheets 7-9
Spirit of Texas Drive	Sheet 10
FM 973	Sheet 11
<b>2.0 Bridge Abutment Walls &amp; Rip Rap</b>	<b>Sheet 12</b>
Presidential Boulevard	Sheets 13-17
Spirit of Texas Drive	Sheet 18-21
FM 973	Sheet 22-24
<b>3.0 Pylons</b>	<b>Sheet 25</b>
Presidential Boulevard	Sheets 26-28
Spirit of Texas Drive	Sheet 26, 29
FM 973	Sheet 26, 30
<b>4.0 Sign Structures</b>	<b>Sheet 31-32</b>
<b>5.0 Lighting Standards</b>	<b>Sheet 33</b>
Light Pole	Sheet 34
Bollard & Sconce	Sheet 35
Icon Element	Sheet 36
<b>6.0 Paving, Hardscape &amp; Shared Use Path</b>	<b>Sheet 37</b>
Presidential Boulevard	Sheets 38-42
Spirit of Texas Drive	Sheets 43-44
FM 973	Sheets 45-46
<b>7.0 Landscape</b>	<b>Sheet 47</b>
Presidential Boulevard	Sheets 48-50
Spirit of Texas Drive	Sheets 51-53
FM 973	Sheets 54-58
Shared Use Path	Sheet 59
Tree Protection	Sheet 60
Plant List and Details	Sheet 61-62
Irrigation	Sheet 63
<b>8.0 Finish Schedule</b>	<b>Sheet 64-65</b>

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



REVISION 

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**PROJECT OVERVIEW**

SH 71 Express western limit approximately Brandt Drive.  
 SH 71 Express eastern limit approximately Onion Creek.  
 FM 973 northern limit approximately Colorado River.  
 FM 973 southern limit approximately Bill Price Road.

The treatment criteria delineated within this document serves as the preliminary design of the corridor aesthetics, establishing the standards necessary to produce the intended aesthetic form, function and appearance of each highway feature and element. This document is not intended to define the geometric design of the project, but rather serves as design standards that will be developed into final engineering design during the final Design Build process. Certain elements may be subject to design exception requests, but only by approval from TxDOT.

The architectural and landscape design found in this document is based upon the community's input and visual preferences. The project reflects community input that was received at various public meetings. Drawn from the local styles, the "Welcome to Austin" theme blends traditional and contemporary materials of the region using innovative colors and textures. Considerations for bicycle and pedestrian connectivity were made as well as integrating as many trees as possible. The intent of the landscape and hardscape improvements in this corridor are to be a "mid-level" investment.

**CONTEXT DIAGRAM**

SCALE: 1" = 1200' (CONTEXT)  
 SCALE: 1" = 200' (AREA ENLARGEMENTS)

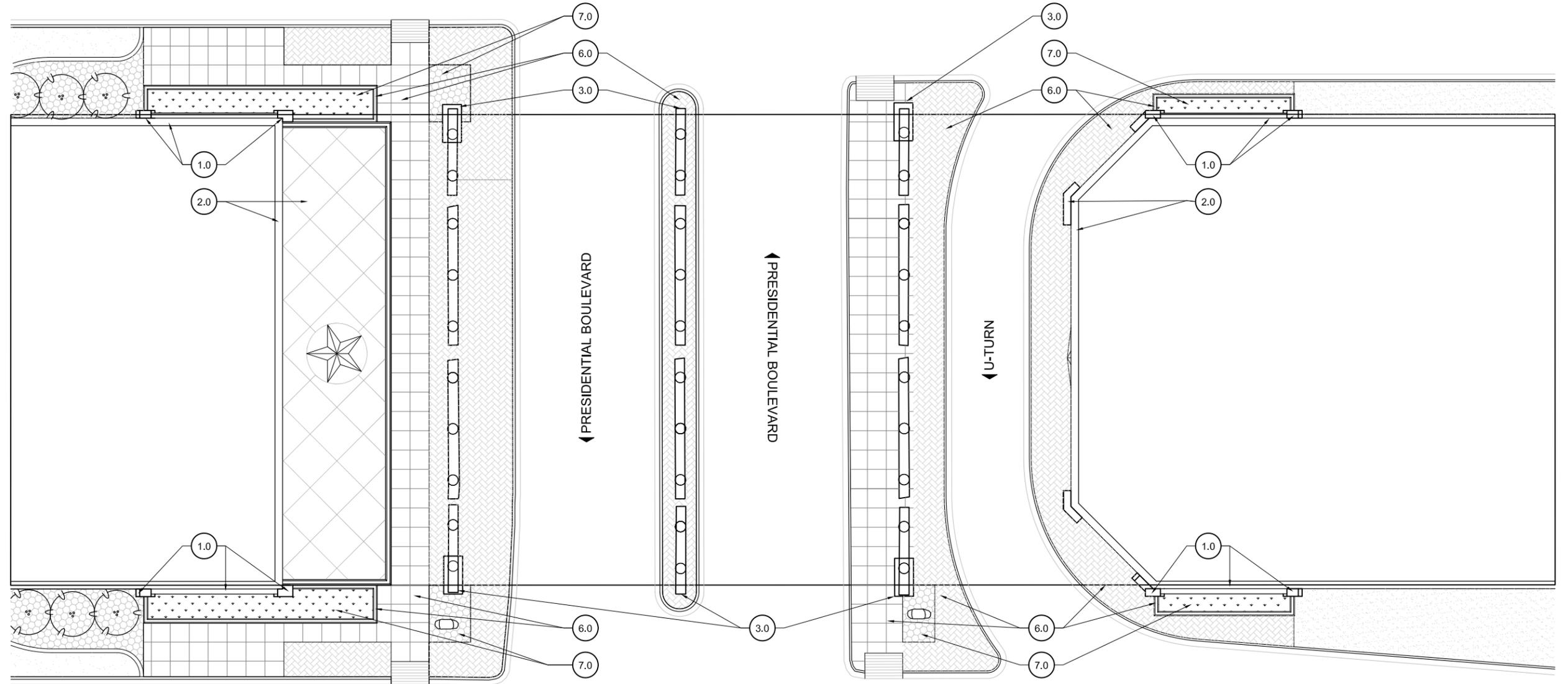
- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



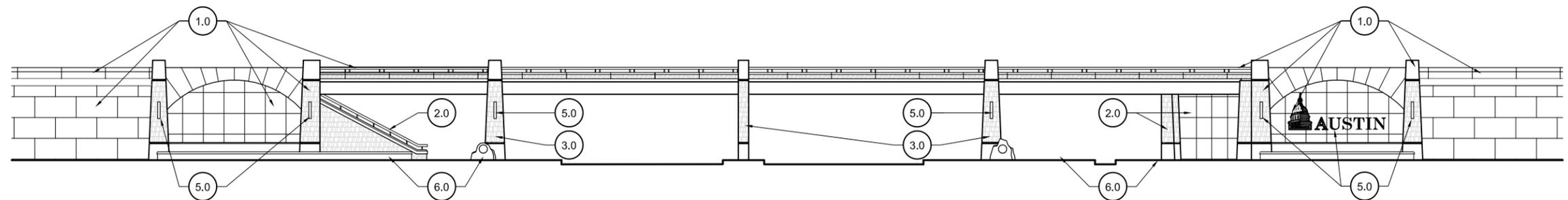
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# INTERSECTION & OVERPASS ELEVATION - PRESIDENTIAL BOULEVARD



**PRESIDENTIAL PLAN**

SCALE: 1"= 30'-0"



**PRESIDENTIAL SOUTH SOUTHWEST ELEVATION**

SCALE: 1"= 30'-0"

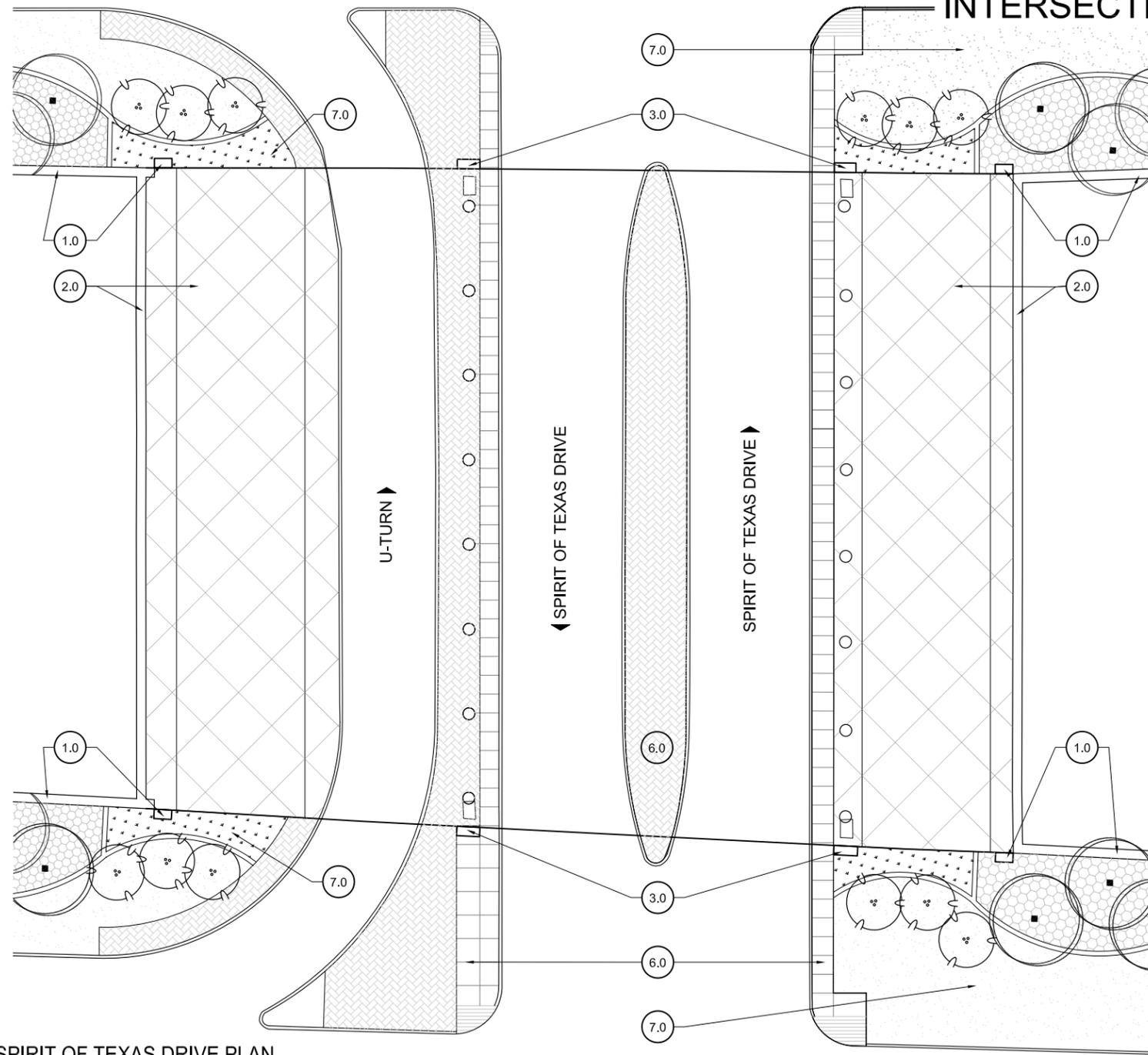
- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

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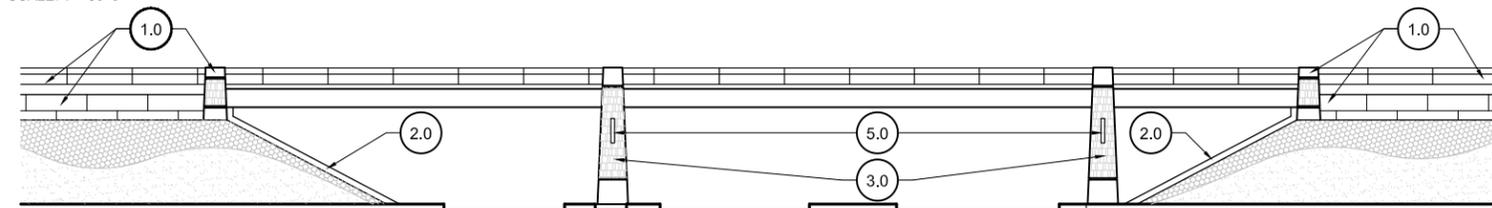
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# INTERSECTION & OVERPASS ELEVATION - SPIRIT OF TEXAS DRIVE



SPIRIT OF TEXAS DRIVE PLAN

SCALE: 1"= 30'-0"



SPIRIT OF TEXAS DRIVE SOUTH SOUTHWEST ELEVATION

SCALE: 1"= 30'-0"

- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

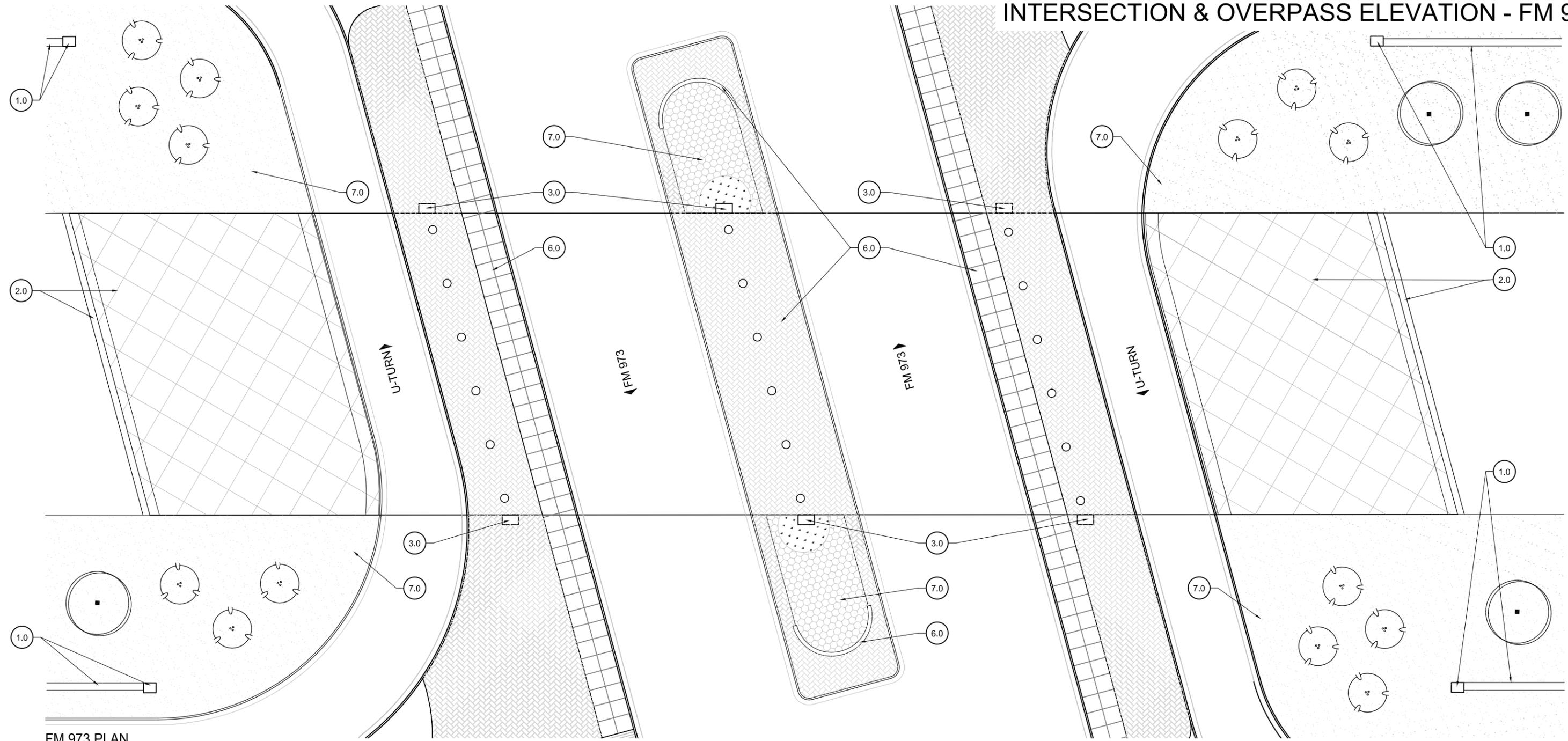
DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



REVISION

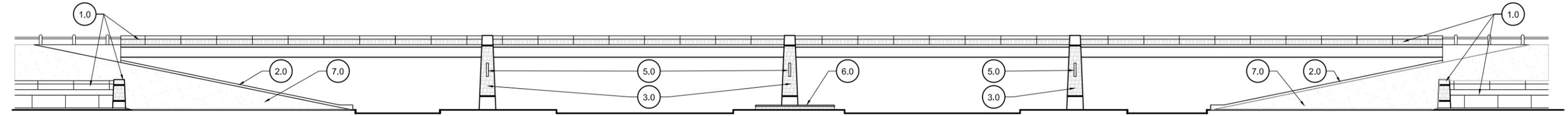
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INTERSECTION & OVERPASS ELEVATION - FM 973



FM 973 PLAN

SCALE: 1"= 30'-0"



FM 973 SOUTHWEST ELEVATION

SCALE: 1"= 30'-0"

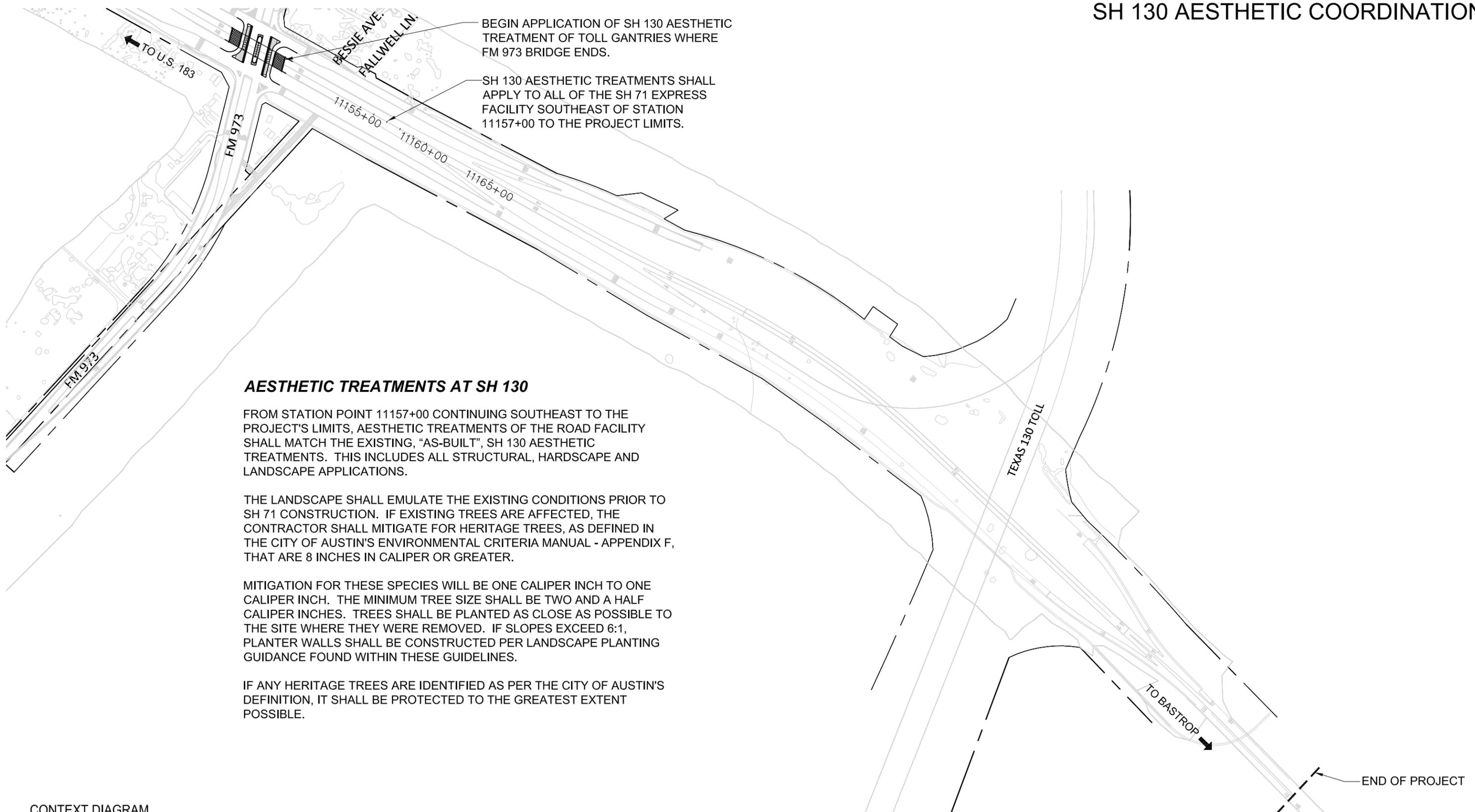
- ①.0 RETAINING WALLS & PILASTERS - Sheets 6-11
- ②.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- ③.0 PYLONS - Sheets 25-30
- ④.0 SIGN STRUCTURES - Sheets 31-32
- ⑤.0 LIGHTING STANDARDS - Sheets 33-36
- ⑥.0 PAVING/ HARDSCAPE - Sheets 37-46
- ⑦.0 LANDSCAPE - Sheets 47-63
- ⑧.0 FINISH SCHEDULE - Sheets 64-65

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BEGIN APPLICATION OF SH 130 AESTHETIC TREATMENT OF TOLL GANTRIES WHERE FM 973 BRIDGE ENDS.

SH 130 AESTHETIC TREATMENTS SHALL APPLY TO ALL OF THE SH 71 EXPRESS FACILITY SOUTHEAST OF STATION 11157+00 TO THE PROJECT LIMITS.

**AESTHETIC TREATMENTS AT SH 130**

FROM STATION POINT 11157+00 CONTINUING SOUTHEAST TO THE PROJECT'S LIMITS, AESTHETIC TREATMENTS OF THE ROAD FACILITY SHALL MATCH THE EXISTING, "AS-BUILT", SH 130 AESTHETIC TREATMENTS. THIS INCLUDES ALL STRUCTURAL, HARDSCAPE AND LANDSCAPE APPLICATIONS.

THE LANDSCAPE SHALL EMULATE THE EXISTING CONDITIONS PRIOR TO SH 71 CONSTRUCTION. IF EXISTING TREES ARE AFFECTED, THE CONTRACTOR SHALL MITIGATE FOR HERITAGE TREES, AS DEFINED IN THE CITY OF AUSTIN'S ENVIRONMENTAL CRITERIA MANUAL - APPENDIX F, THAT ARE 8 INCHES IN CALIPER OR GREATER.

MITIGATION FOR THESE SPECIES WILL BE ONE CALIPER INCH TO ONE CALIPER INCH. THE MINIMUM TREE SIZE SHALL BE TWO AND A HALF CALIPER INCHES. TREES SHALL BE PLANTED AS CLOSE AS POSSIBLE TO THE SITE WHERE THEY WERE REMOVED. IF SLOPES EXCEED 6:1, PLANTER WALLS SHALL BE CONSTRUCTED PER LANDSCAPE PLANTING GUIDANCE FOUND WITHIN THESE GUIDELINES.

IF ANY HERITAGE TREES ARE IDENTIFIED AS PER THE CITY OF AUSTIN'S DEFINITION, IT SHALL BE PROTECTED TO THE GREATEST EXTENT POSSIBLE.

**CONTEXT DIAGRAM**

SCALE: 1" = 1200'

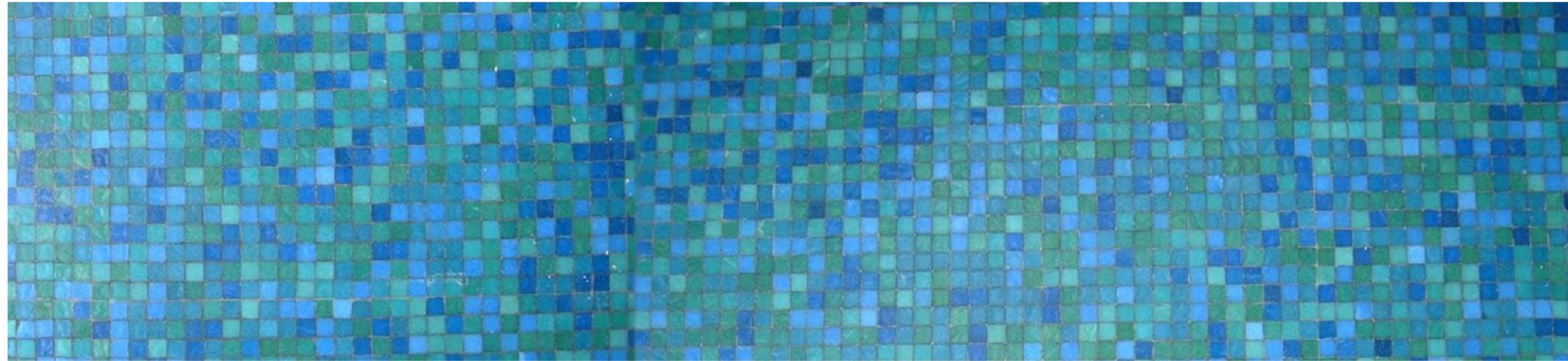
- 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11
- 3.0 PYLONS - Sheets 25-30
- 5.0 LIGHTING STANDARDS - Sheets 33-36
- 7.0 LANDSCAPE - Sheets 47-63
- 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
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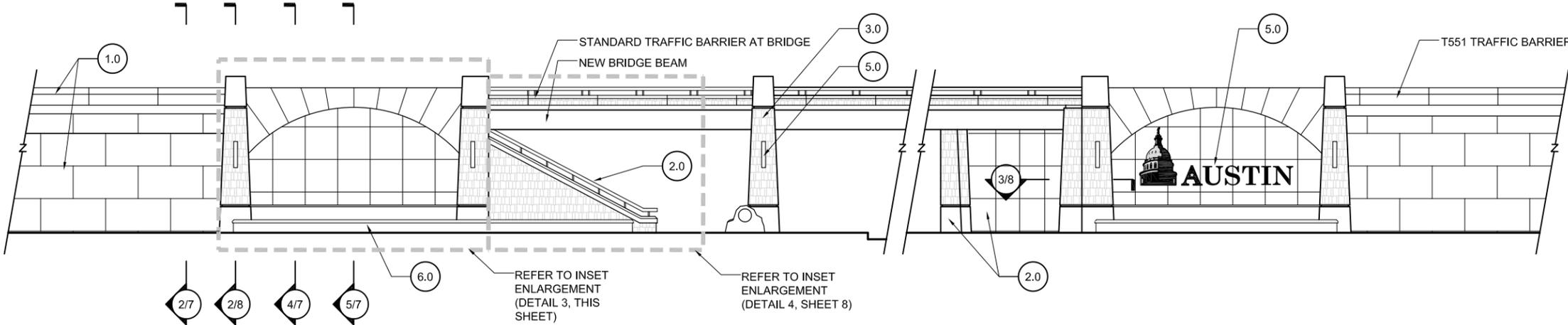
REVISION

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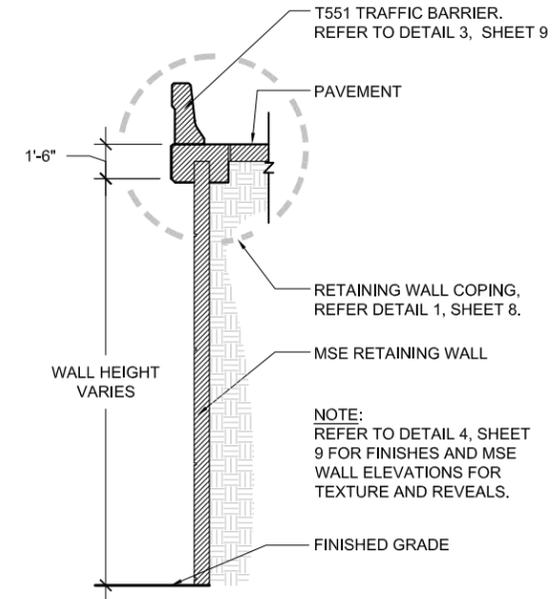


1.0 RETAINING WALLS

# RETAINING WALLS - PRESIDENTIAL BOULEVARD

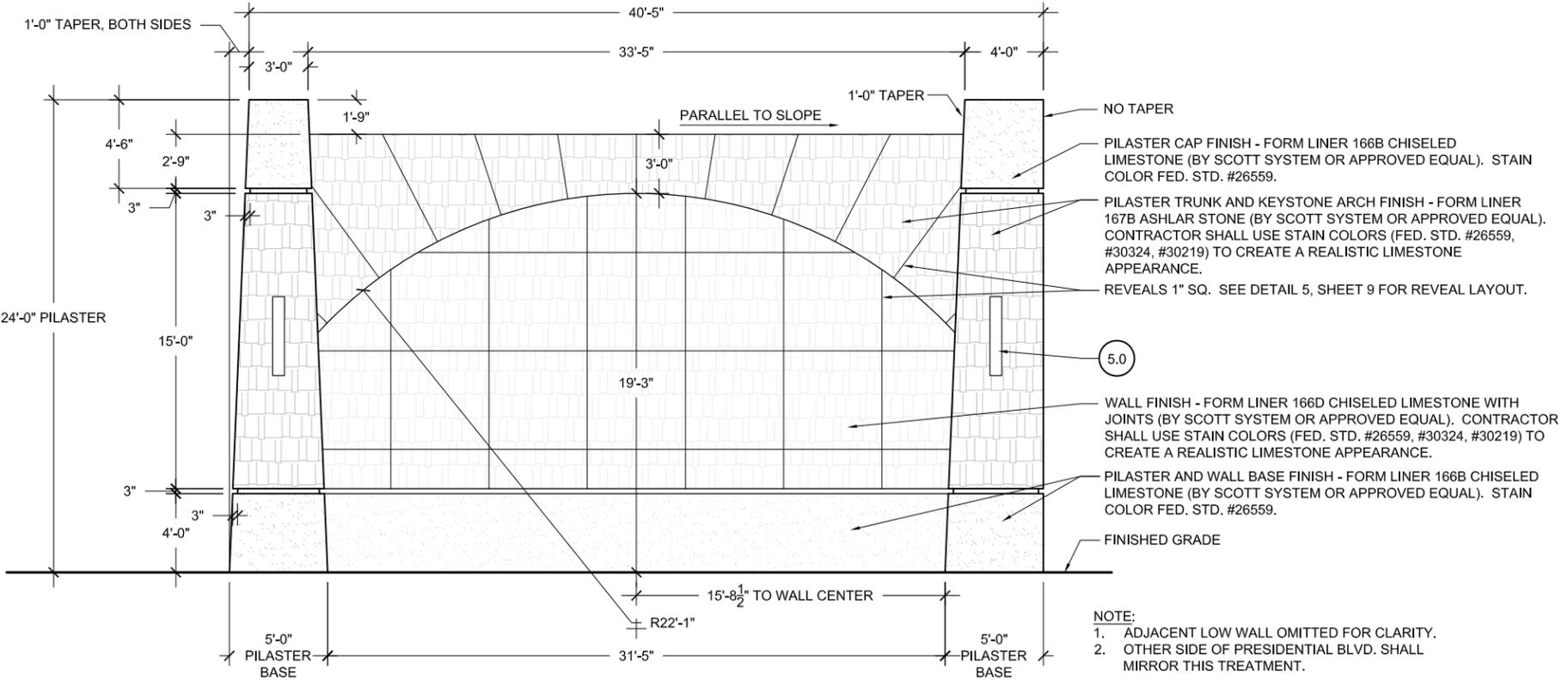


**1** RETAINING WALL ELEVATION  
SCALE: 1" = 20'

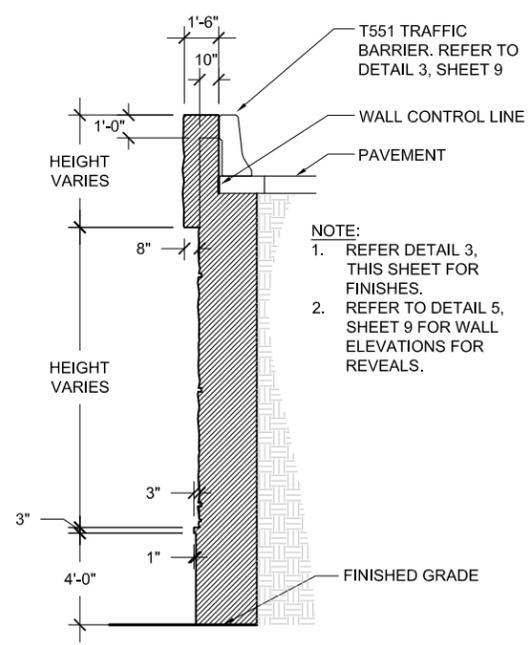


**2** MSE WALL SECTION  
SCALE: 1/8" = 1'-0"

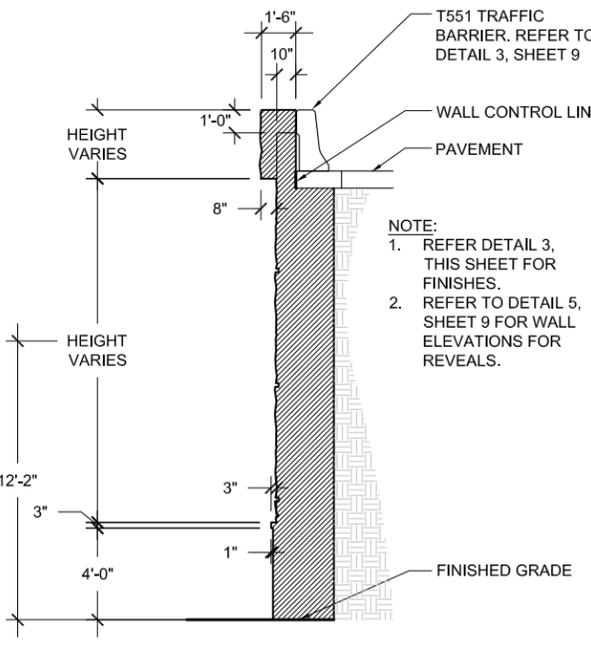
**NOTES:**  
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BACKS OF WALLS AND PAVED SURFACES.  
2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.



**3** FEATURE WALL  
SCALE: 1/8" = 1'-0"



**4** FEATURE WALL SECTION  
SCALE: 1/8" = 1'-0"



**5** FEATURE WALL SECTION  
SCALE: 1/8" = 1'-0"

- 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11
- 3.0 PYLONS - Sheets 25-30
- 5.0 LIGHTING STANDARDS - Sheets 33-36
- 7.0 LANDSCAPE - Sheets 47-63
- 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- 4.0 SIGN STRUCTURES - Sheets 31-32
- 6.0 PAVING/ HARDSCAPE - Sheets 37-46
- 8.0 FINISH SCHEDULE - Sheets 64-65

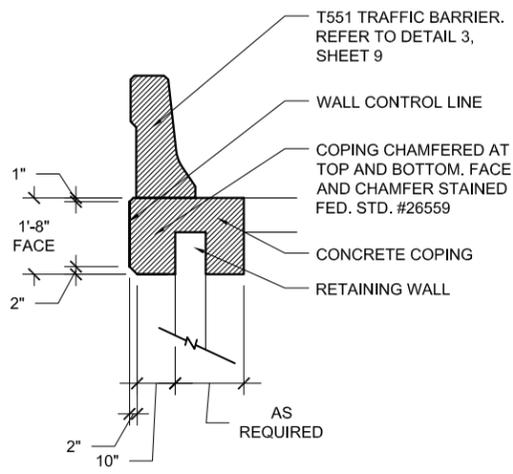
DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



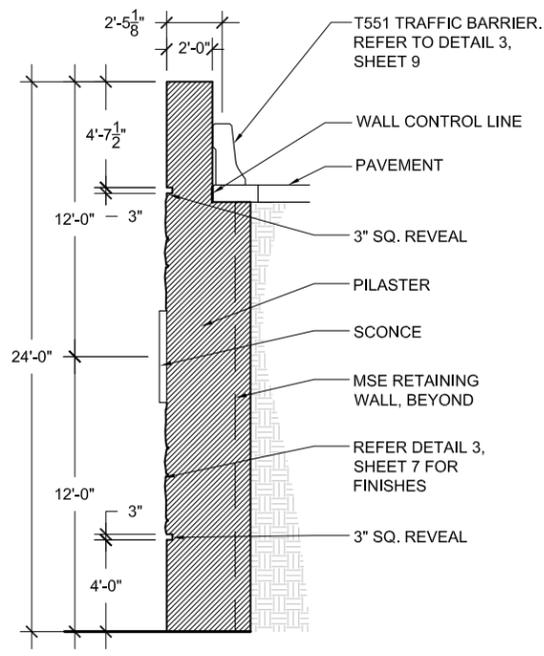
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# RETAINING WALLS - PRESIDENTIAL BOULEVARD

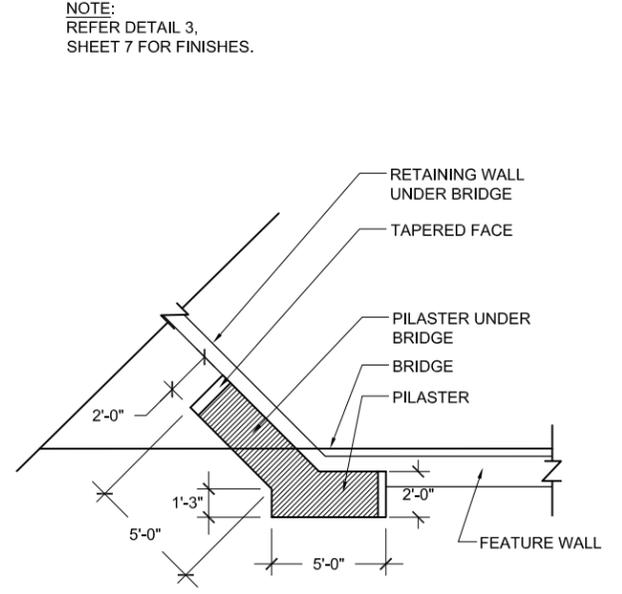
- NOTES:**
- CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BACKS OF WALLS AND PAVED SURFACES.
  - EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.



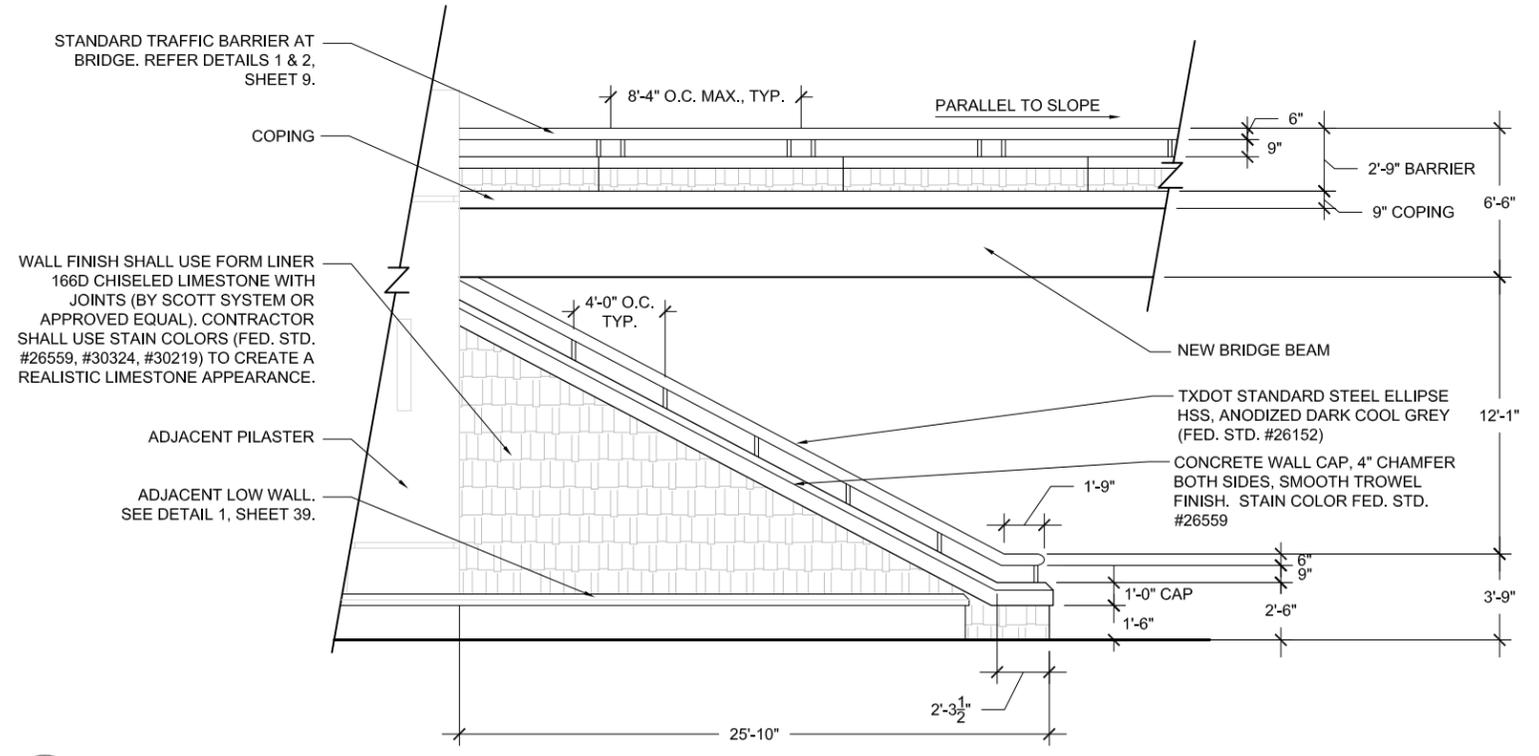
**1 COPING DETAIL**  
SCALE: 1/4" = 1'-0"



**2 PILASTER SECTION**  
SCALE: 1/8" = 1'-0"



**3 PILASTER PLAN SECTION**  
SCALE: 1/8" = 1'-0"



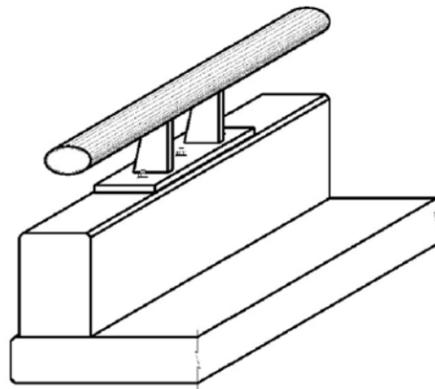
**4 SLOPED RETAINING WALL, TRAFFIC BARRIER AND RAILING ELEVATION**  
SCALE: 1/8" = 1'-0"

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



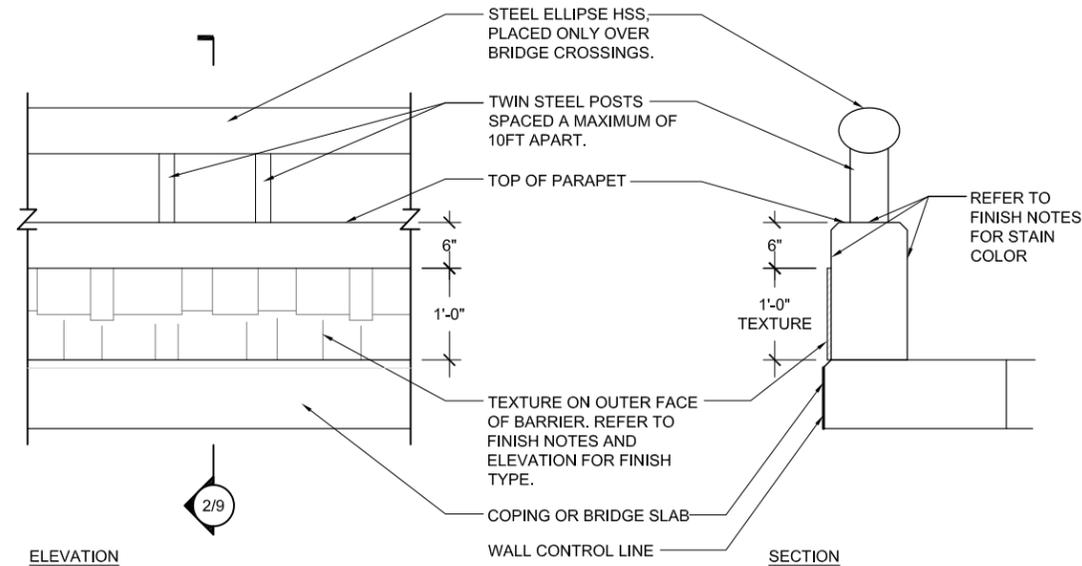
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# TRAFFIC BARRIER & MSE WALL - PRESIDENTIAL BOULEVARD



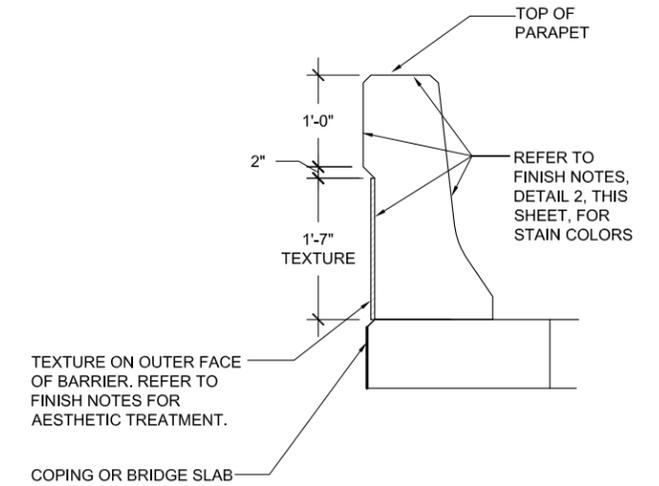
TRAFFIC BARRIER NOTES PER TXDOT BRIDGE RAILING MANUAL. VERIFY CURRENT REQUIREMENTS AND STANDARDS.

NOTE:  
TRAFFIC RAILING TYPE T401- THIS RAILING IS 33-INCHES HIGH WITH AN 18-INCH CONCRETE PARAPET AND A STEEL ELLIPSE HSS 15 INCHES ABOVE THE CONCRETE. IT HAS TWIN STEEL POSTS SPACED A MAXIMUM OF 10 FT APART. IT FEATURES A BOLT ANCHORAGE SYSTEM FOR THE STEEL RAIL POSTS THAT MAY BE DRILLED AND EPOXY-ANCHORED ALLOWING SLIP-FORMING OF THE CONCRETE PARAPET. STEEL RAIL TO BE PLACED ONLY OVER BRIDGE CROSSINGS.



**FINISH NOTES:**

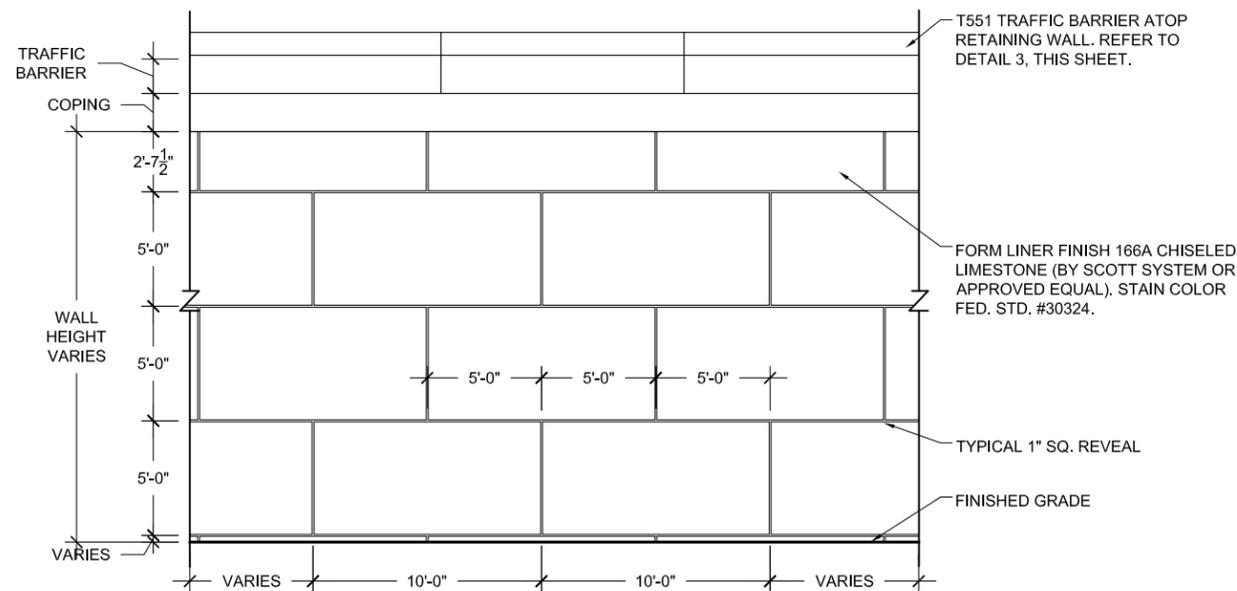
1. TEXTURE OF BARRIER AT BRIDGE (EXCEPT AT SPIRIT OF TEXAS) - 166D CHISELED LIMESTONE WITH JOINTS. CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.
2. TEXTURE OF BARRIER ATOP RETAINING WALLS (EXCEPT AT SPIRIT OF TEXAS) - 166A CHISELED LIMESTONE. CONTRACTOR SHALL USE STAIN COLOR FED. STD. #30324.
3. TEXTURE FINISHES BY SCOTT SYSTEM OR APPROVED EQUAL.
4. STEEL ELLIPSE HSS AND TWIN STEEL POSTS ANODIZED DARK COOL GREY (FED. STD. #26152)
5. CONCRETE SURFACES OF THE BARRIERS WITHOUT APPLIED TEXTURE SHALL BE STAINED FED. STD. COLOR #26559.
6. MEDIAN BARRIERS FROM WEST MOST PROJECT LIMIT TO STATION 11157+00 SHALL BE STAINED FED. STD. COLOR #26559.
7. ALL BARRIERS SOUTHEAST OF STATION 11157+00 TO THE SOUTHEAST MOST PROJECT LIMIT SHALL BE STAINED TO MATCH SH 130 BARRIERS.



**1** STANDARD TRAFFIC BARRIER  
SCALE: NOT TO SCALE

**2** STANDARD TRAFFIC BARRIER AT PRESIDENTIAL BRIDGE CROSSING ONLY  
SCALE: 1/2" = 1'-0"

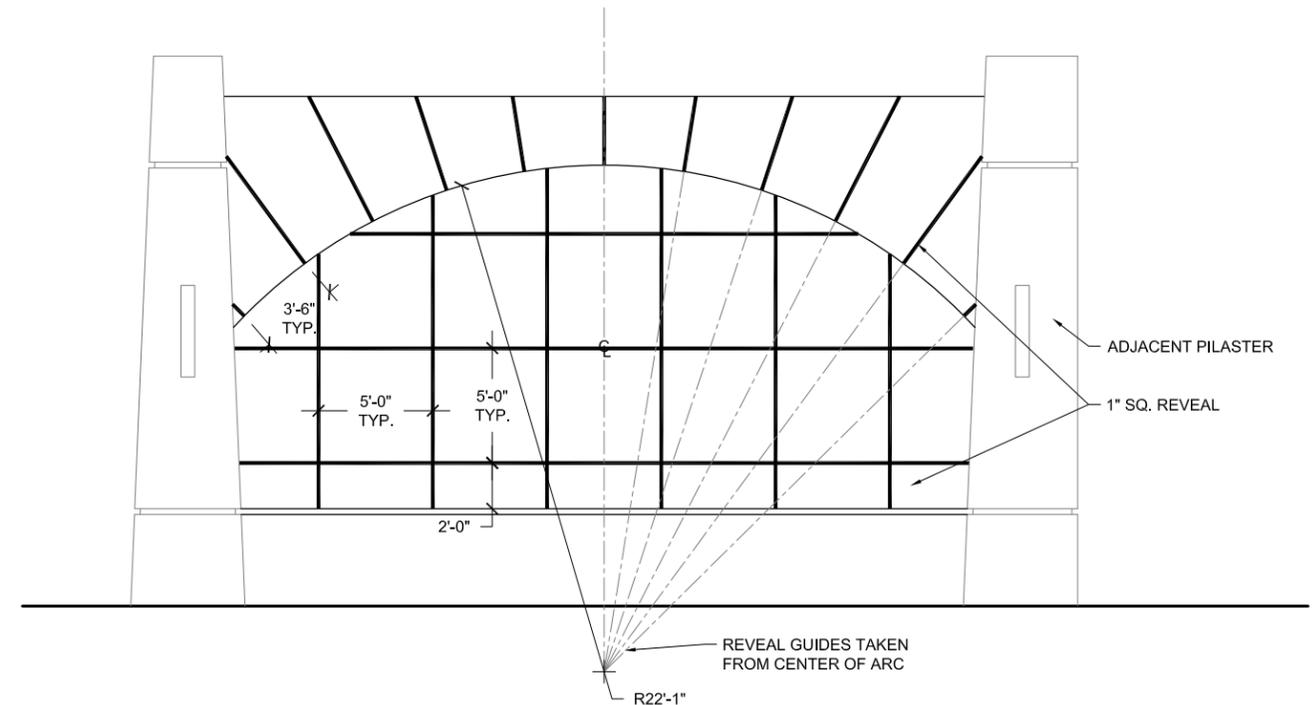
**3** T551 TRAFFIC BARRIER - WITH TEXTURE  
SCALE: 1/2" = 1'-0"



**4** MSE WALL ELEVATION  
SCALE: 1/8" = 1'-0"

**NOTES:**

1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BACKS OF WALLS AND PAVED SURFACES.
2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

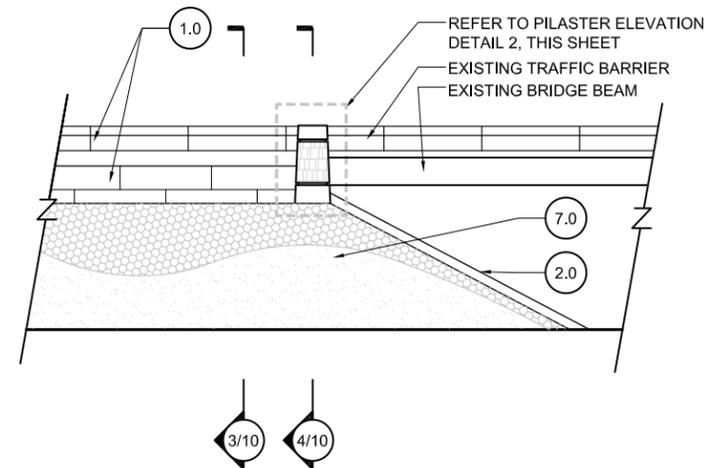


**5** SCORING AT RETAINING WALL FEATURE  
SCALE: 1/8" = 1'-0"

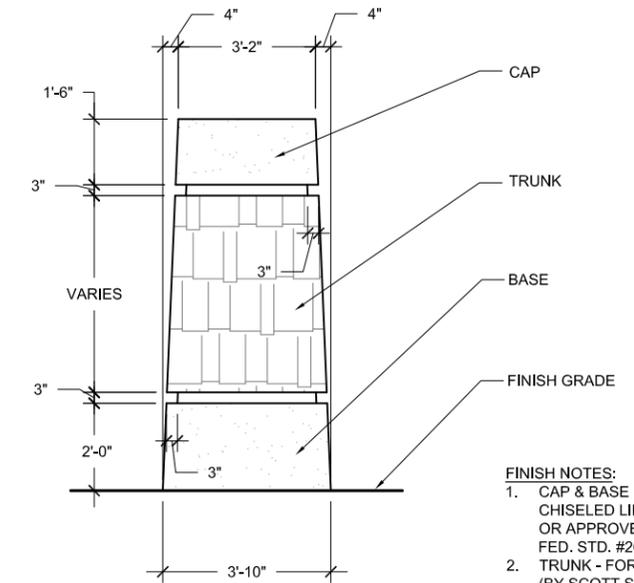
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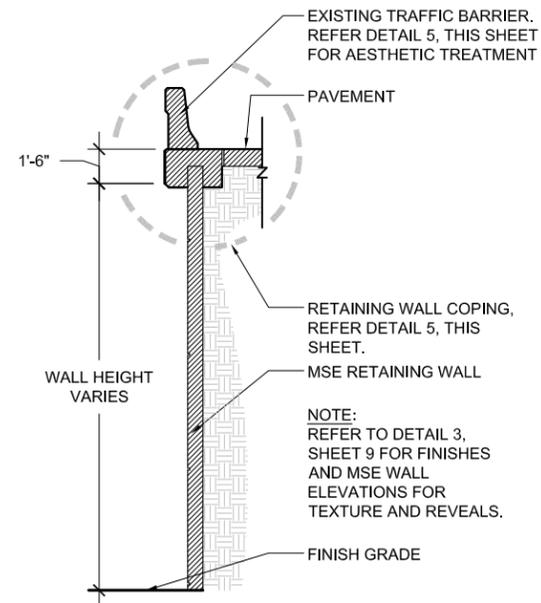


**1** RETAINING WALL ELEVATION  
SCALE: 1" = 20'



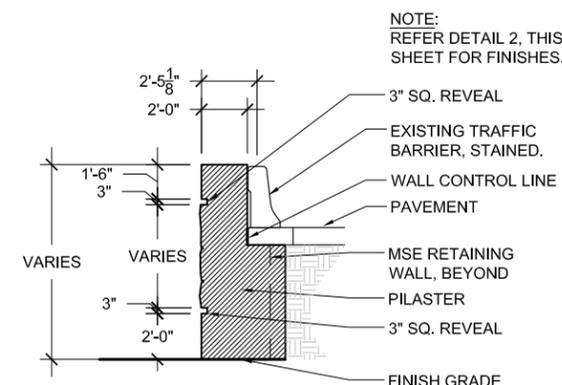
- FINISH NOTES:**
1. CAP & BASE - FORM LINER FINISH 166B CHISELED LIMESTONE (BY SCOTT SYSTEM OR APPROVED EQUAL). STAIN COLOR FED. STD. #26559.
  2. TRUNK - FORM LINER 167B ASHLAR STONE (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

**2** PILASTER ELEVATION  
SCALE: 1/4" = 1'-0"

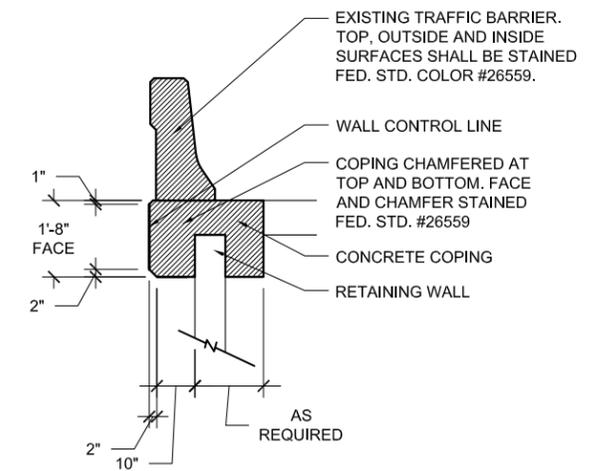


- NOTES:**
1. AESTHETIC TREATMENT OF EXISTING TRAFFIC BARRIERS AT THIS INTERSECTION SHALL ONLY CONSIST OF PAINT AS SPECIFIED IN DETAIL 5, THIS SHEET. FORMLINER OR TEXTURES SHALL NOT BE APPLIED.
  2. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BACKS OF WALLS AND PAVED SURFACES.
  3. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

**3** RETAINING WALL SECTION  
SCALE: 1/8" = 1'-0"



**4** PILASTER SECTION  
SCALE: 1/8" = 1'-0"



**5** COPING DETAIL  
SCALE: 1/4" = 1'-0"

1.0 RETAINING WALLS & PILASTERS - Sheets 6-11

3.0 PYLONS - Sheets 25-30

5.0 LIGHTING STANDARDS - Sheets 33-36

7.0 LANDSCAPE - Sheets 47-63

2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24

4.0 SIGN STRUCTURES - Sheets 31-32

6.0 PAVING/ HARDSCAPE - Sheets 37-46

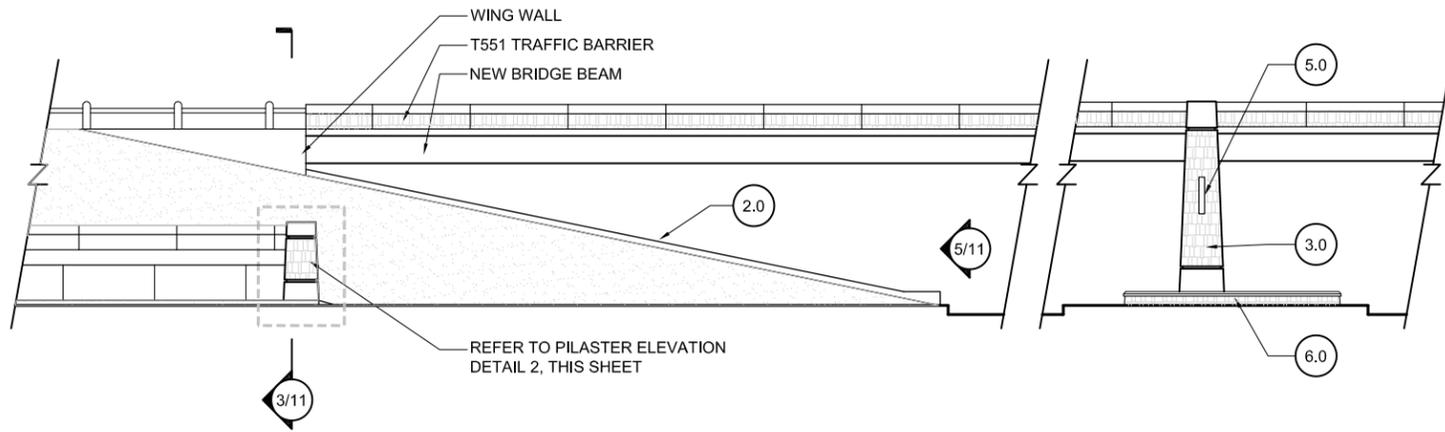
8.0 FINISH SCHEDULE - Sheets 64-65

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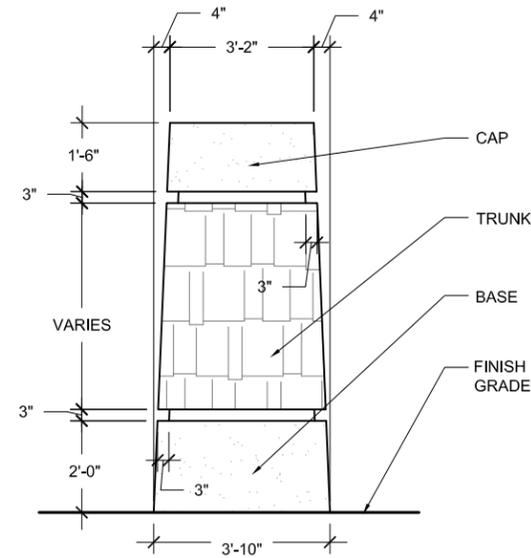
REVISION



NOTE:  
SHOULD THE CONTRACTOR'S DESIGN REQUIRE  
RETAINING WALLS, NO PERCHED WALLS SHALL  
BE USED.



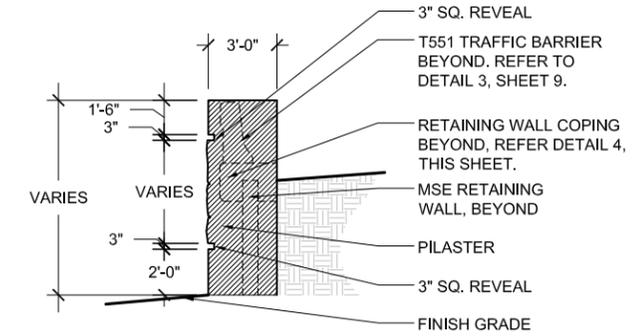
**1** RETAINING WALL ELEVATION  
SCALE: 1" = 20'



**2** PILASTER ELEVATION  
SCALE: 1/4" = 1'-0"

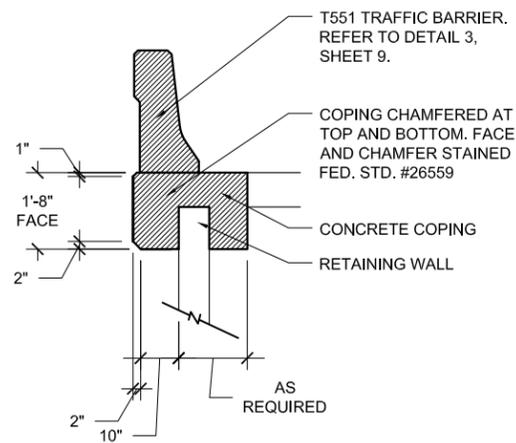
FINISH NOTES:  
1. CAP & BASE - FORM LINER  
FINISH 166B CHISELED  
LIMESTONE (BY SCOTT  
SYSTEM OR APPROVED  
EQUAL). STAIN COLOR FED.  
STD. #26559.  
2. TRUNK - FORM LINER 167B  
ASHLAR STONE (BY SCOTT  
SYSTEM OR APPROVED  
EQUAL). CONTRACTOR  
SHALL USE STAIN COLORS  
(FED. STD. #26559, #30324,  
#30219) TO CREATE A  
REALISTIC LIMESTONE  
APPEARANCE.

NOTE:  
REFER DETAIL 2, THIS  
SHEET FOR FINISHES.

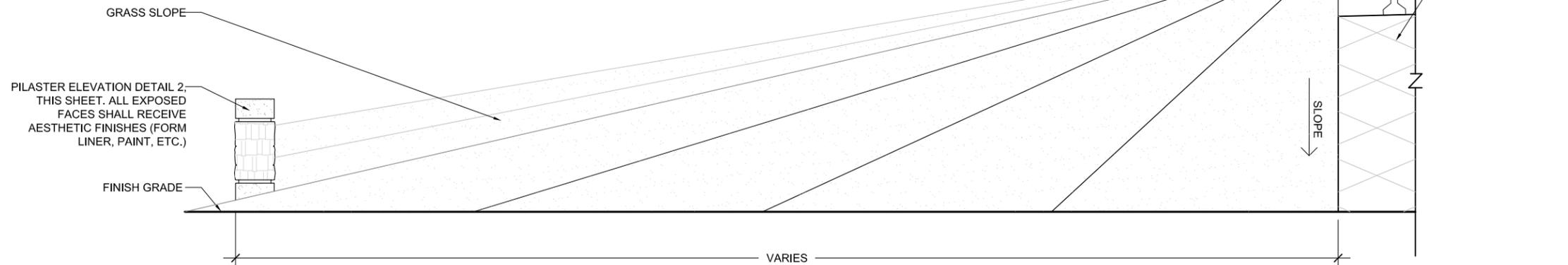


**3** PILASTER SECTION  
SCALE: 1/8" = 1'-0"

NOTES:  
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BACKS OF WALLS AND  
PAVED SURFACES.  
2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY  
SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT  
ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER  
POSSIBLE.



**4** COPING DETAIL  
SCALE: 1/4" = 1'-0"



**5** WINGWALL AND RIP RAP ELEVATION  
SCALE: 1" = 10'

1.0 RETAINING WALLS  
& PILASTERS - Sheets 6-11

3.0 PYLONS - Sheets 25-30

5.0 LIGHTING STANDARDS -  
Sheets 33-36

7.0 LANDSCAPE - Sheets 47-63

2.0 BRIDGE ABUTMENT WALLS  
& RIP RAP - Sheets 12-24

4.0 SIGN STRUCTURES -  
Sheets 31-32

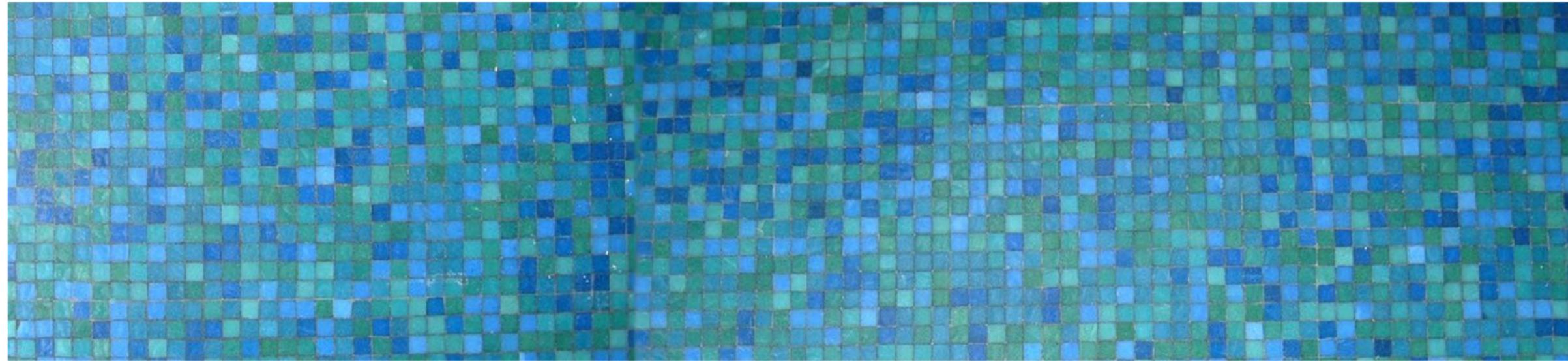
6.0 PAVING/ HARDSCAPE -  
Sheets 37-46

8.0 FINISH SCHEDULE - Sheets 64-65

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL  
RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE  
FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

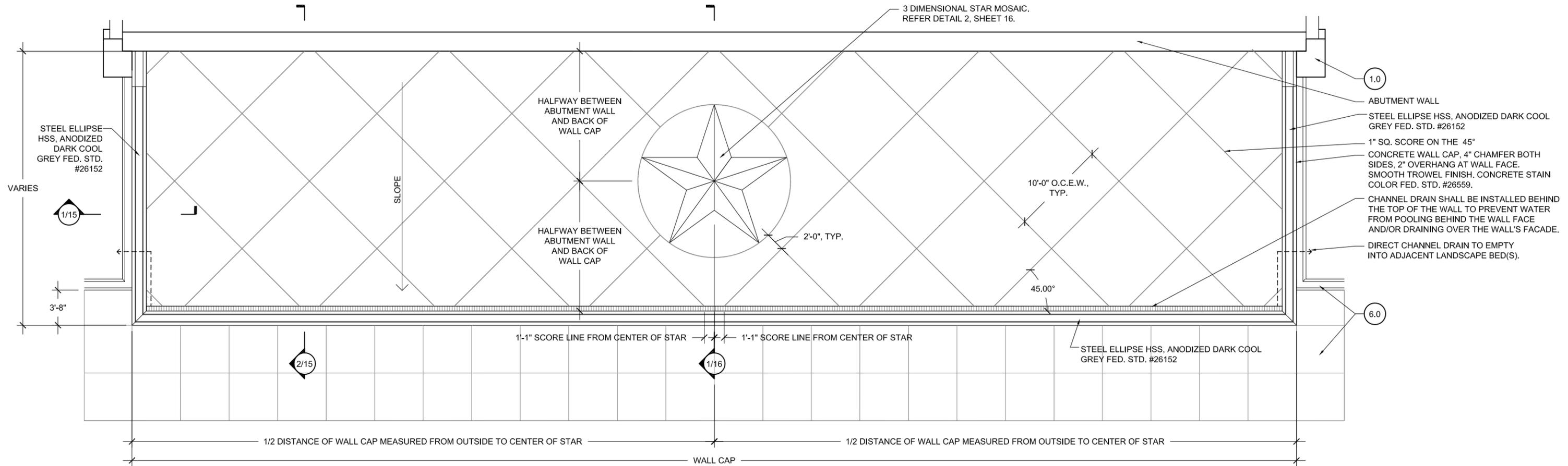
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2.0 BRIDGE ABUTMENT WALLS & RIP RAP

# BRIDGE ABUTMENT WALLS & RIP RAP - PRESIDENTIAL BOULEVARD



**NORTHWEST ABUTMENT AND SLOPED RIP RAP WALL PLAN**

SCALE: 1" = 10'

**NOTES:**

1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

1.0 RETAINING WALLS & PILASTERS - Sheets 6-11

3.0 PYLONS - Sheets 25-30

5.0 LIGHTING STANDARDS - Sheets 33-36

7.0 LANDSCAPE - Sheets 47-63

2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24

4.0 SIGN STRUCTURES - Sheets 31-32

6.0 PAVING/ HARDSCAPE - Sheets 37-46

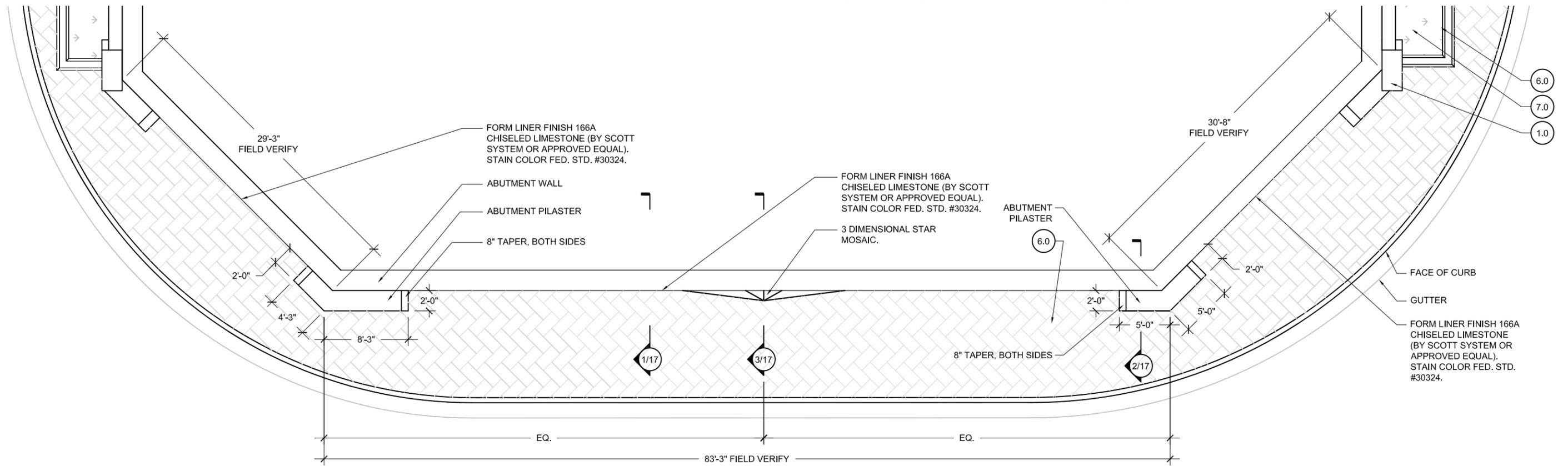
8.0 FINISH SCHEDULE - Sheets 64-65

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



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# BRIDGE ABUTMENT WALLS & RIP RAP - PRESIDENTIAL BOULEVARD



**SOUTHEAST ABUTMENT WALL PLAN**

SCALE: 1" = 10'

- NOTES:**
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

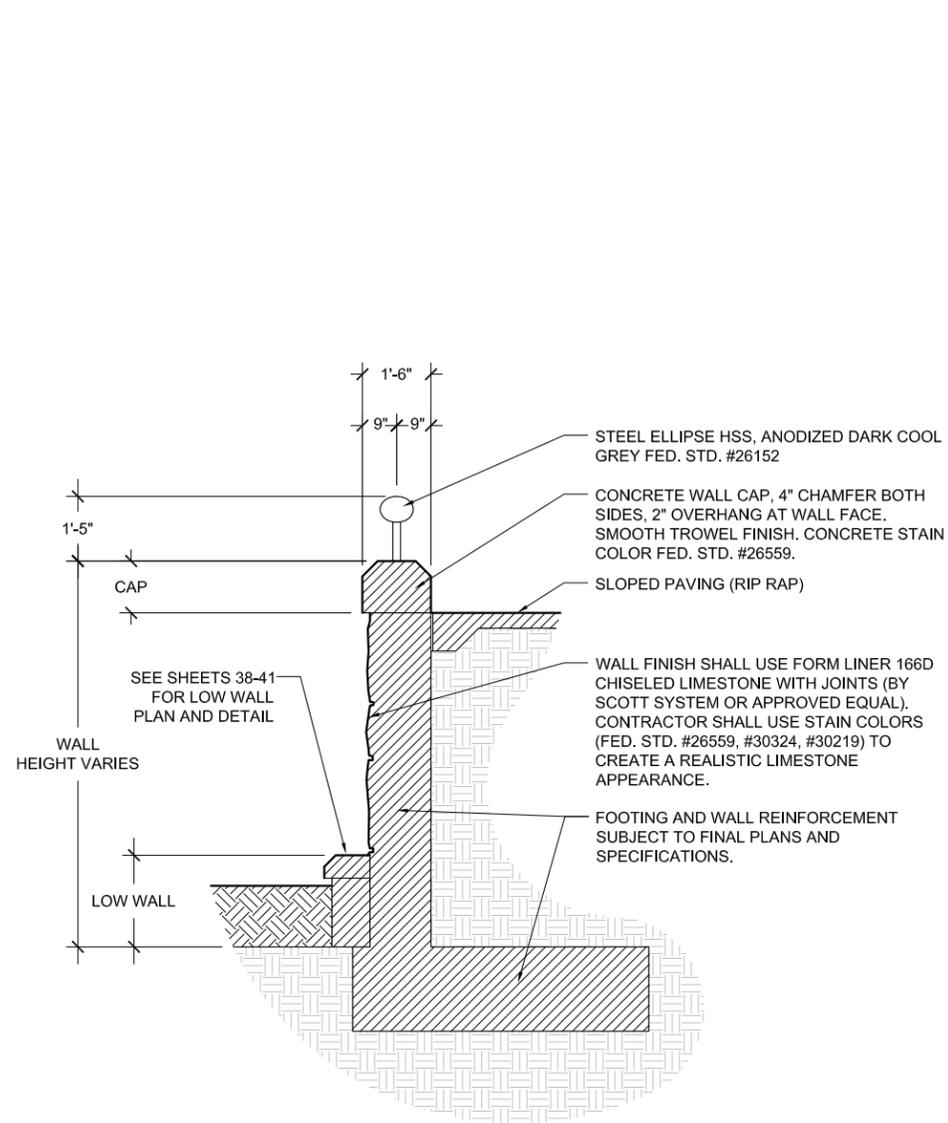
- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



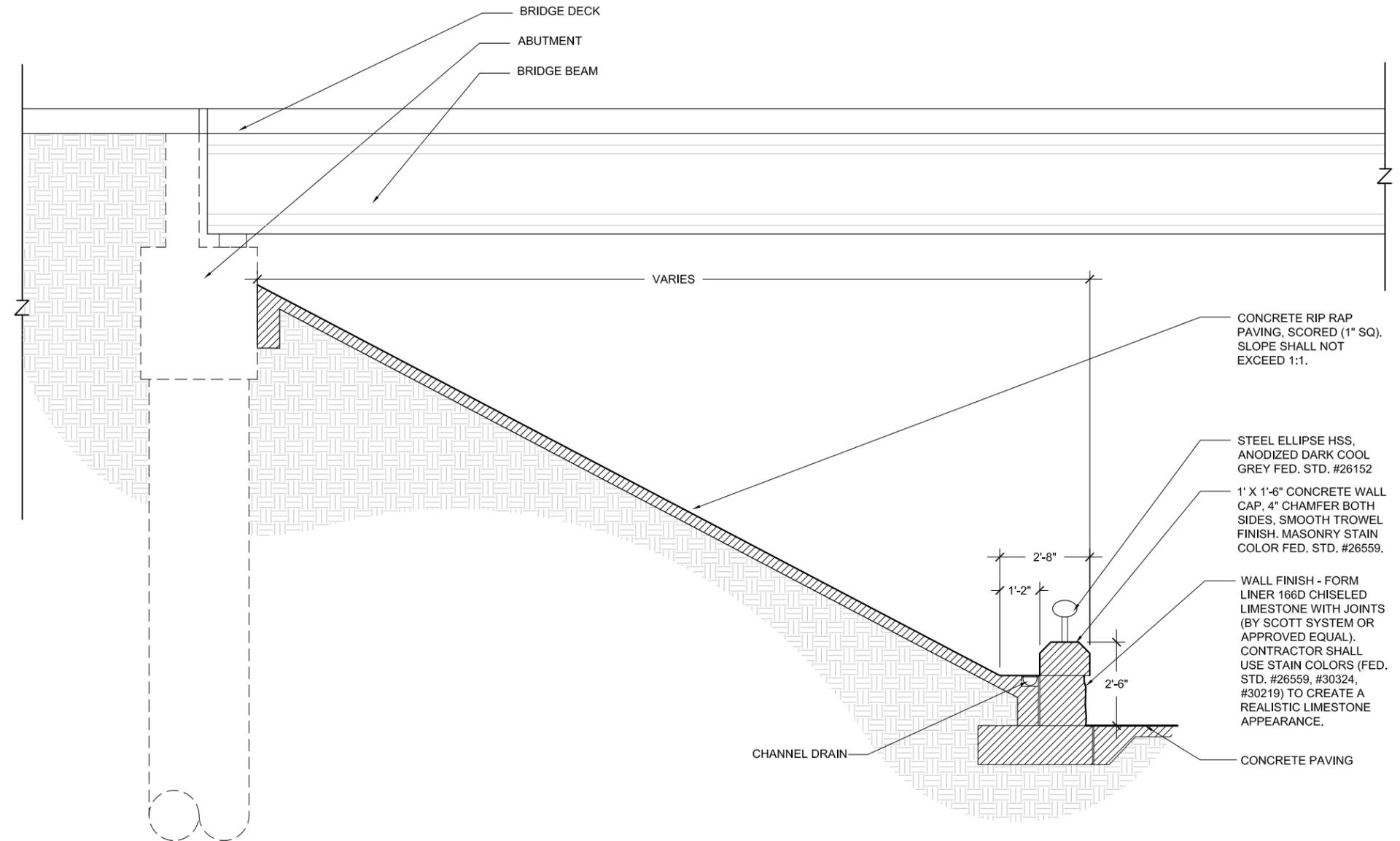
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# BRIDGE ABUTMENT WALLS & RIP RAP - PRESIDENTIAL BOULEVARD



**1** SLOPED RIP RAP WALL SECTION

SCALE: 1/4" = 1'-0"



**2** ABUTMENT AND SLOPED RIP RAP WALL SECTION

SCALE: 1/4" = 1'-0"

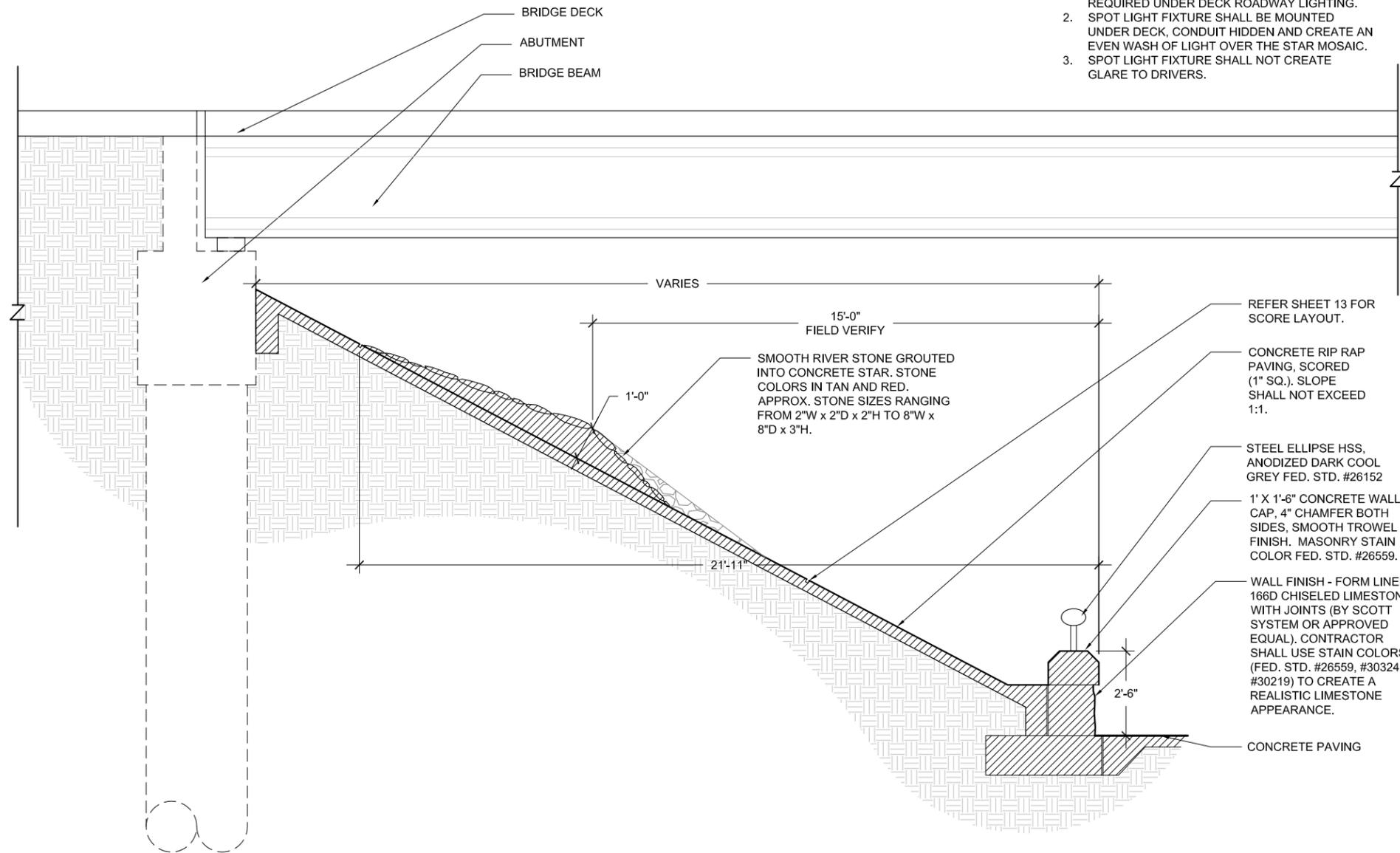
- NOTES:**
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



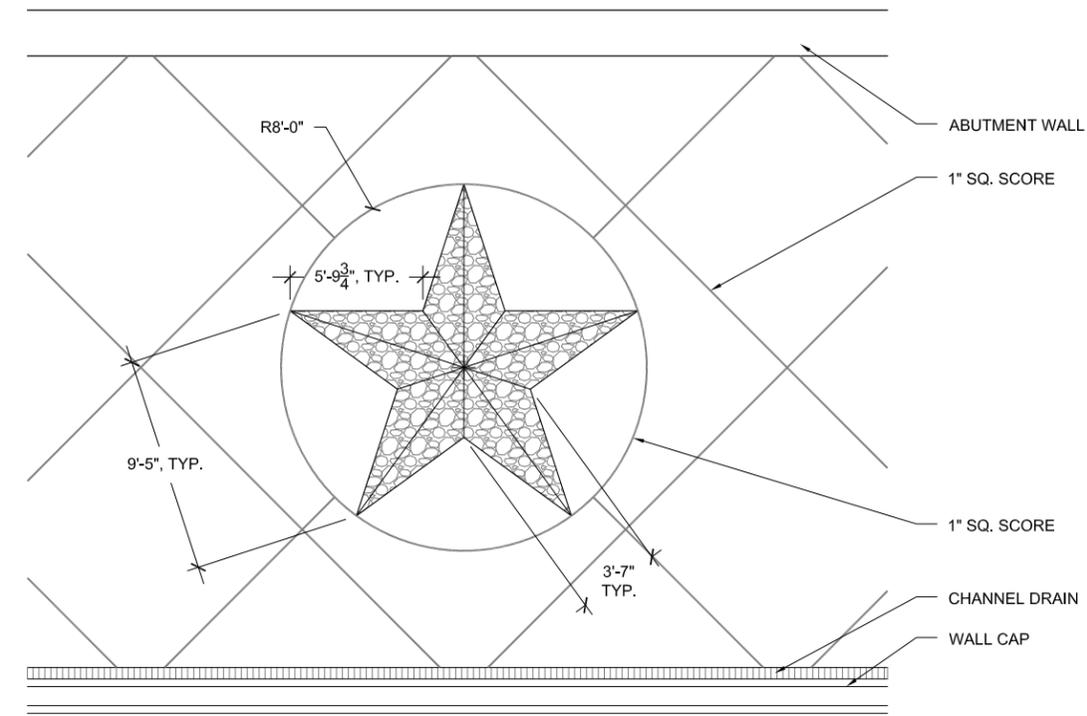
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# BRIDGE ABUTMENT WALLS & RIP RAP - PRESIDENTIAL BOULEVARD



**1** ABUTMENT, SLOPED RIP RAP AND STAR MOSAIC SECTION  
SCALE: 1/4" = 1'-0"

- NOTES:
1. STAR MOSAIC SHALL RECEIVE A DEDICATED SPOT LIGHT FIXTURE SEPARATE FROM REQUIRED UNDER DECK ROADWAY LIGHTING.
  2. SPOT LIGHT FIXTURE SHALL BE MOUNTED UNDER DECK, CONDUIT HIDDEN AND CREATE AN EVEN WASH OF LIGHT OVER THE STAR MOSAIC.
  3. SPOT LIGHT FIXTURE SHALL NOT CREATE GLARE TO DRIVERS.



**2** STAR MOSAIC DETAIL  
SCALE: 1/8" = 1'-0"

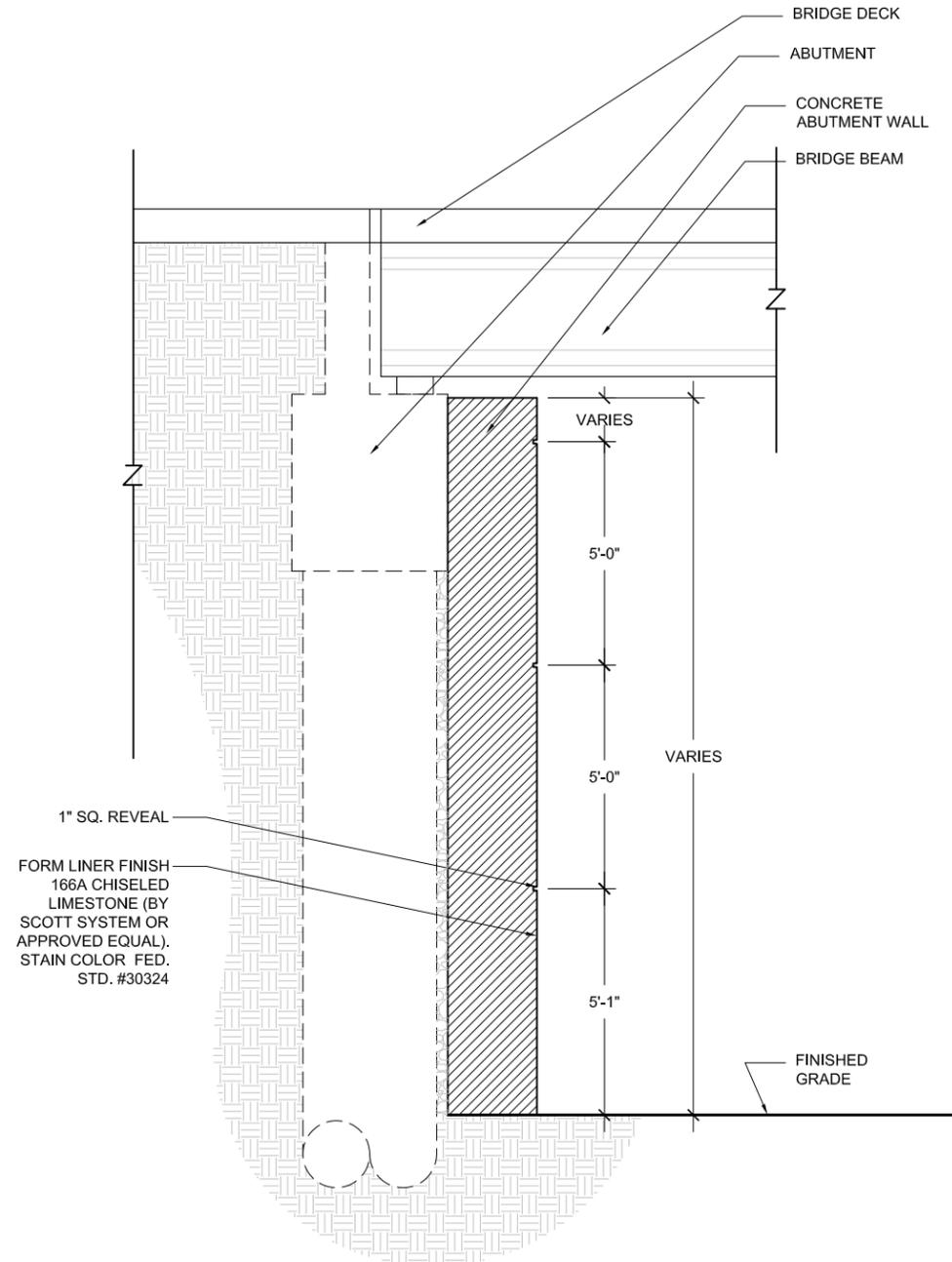
- NOTES:
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

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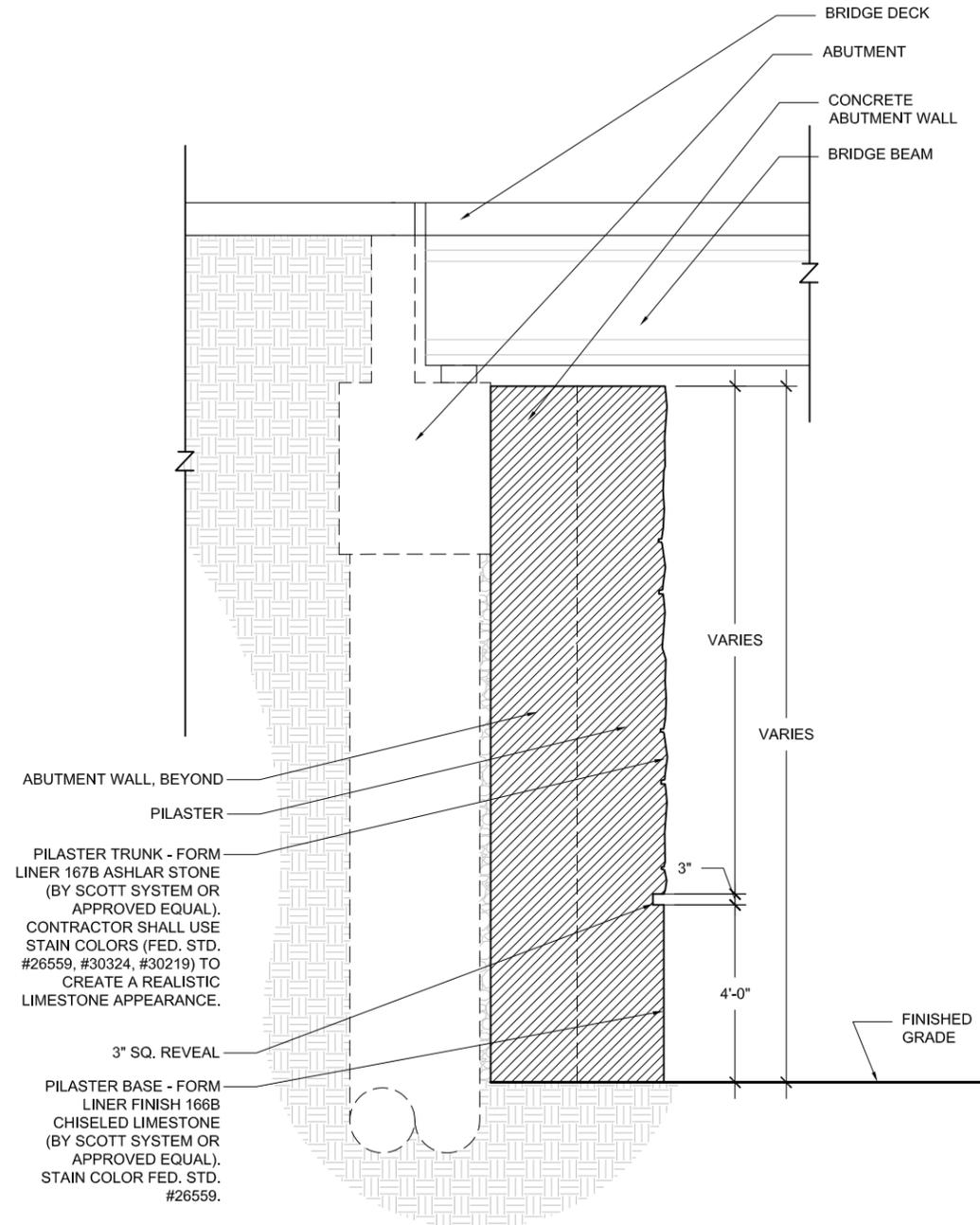


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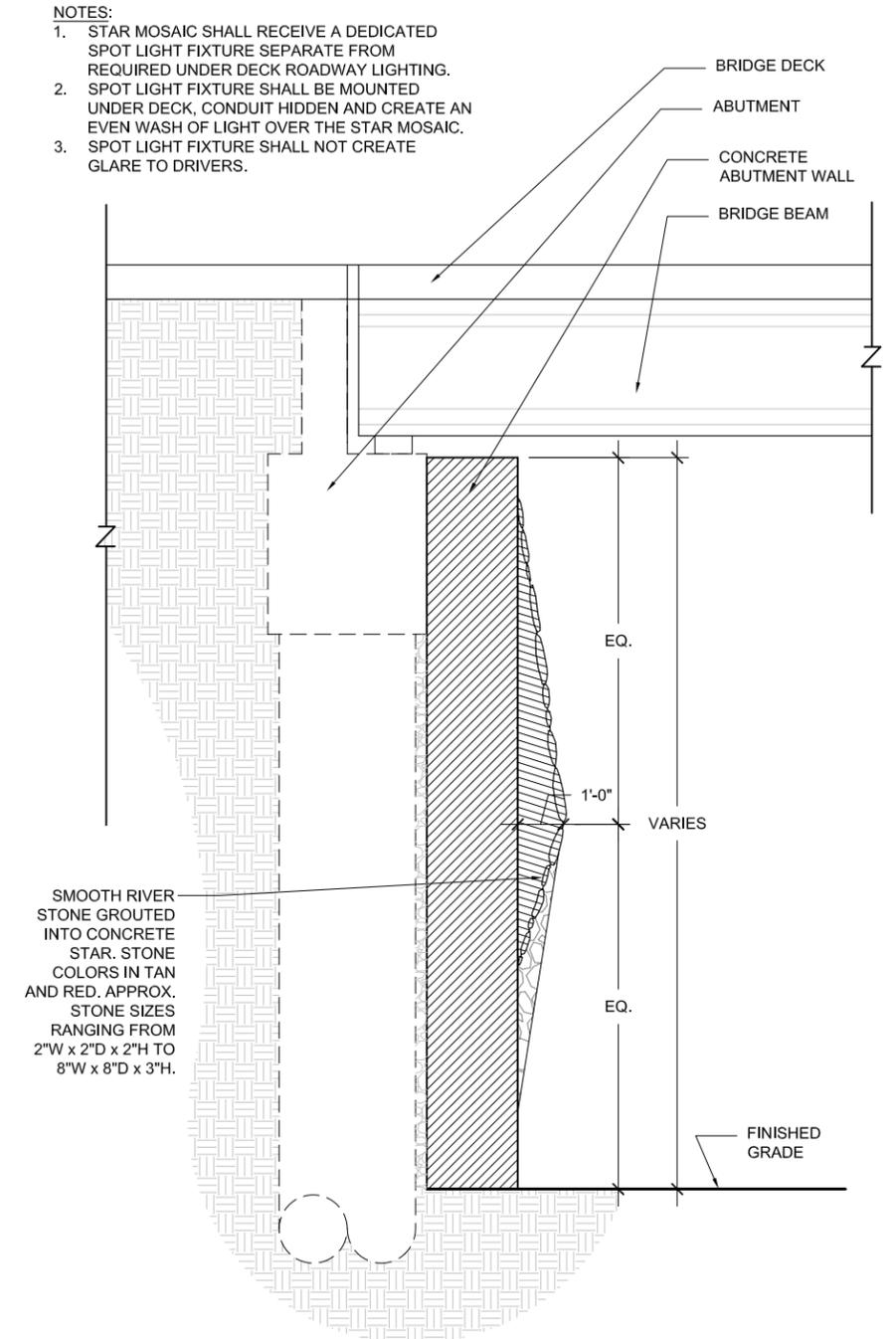
# BRIDGE ABUTMENT WALLS & RIP RAP - PRESIDENTIAL BOULEVARD



**1** ABUTMENT WALL SECTION  
SCALE: 1/4" = 1'-0"



**2** ABUTMENT WALL PILASTER SECTION  
SCALE: 1/4" = 1'-0"



**3** ABUTMENT AND STAR MOSAIC SECTION  
SCALE: 1/4" = 1'-0"

- NOTES:
1. STAR MOSAIC SHALL RECEIVE A DEDICATED SPOT LIGHT FIXTURE SEPARATE FROM REQUIRED UNDER DECK ROADWAY LIGHTING.
  2. SPOT LIGHT FIXTURE SHALL BE MOUNTED UNDER DECK, CONDUIT HIDDEN AND CREATE AN EVEN WASH OF LIGHT OVER THE STAR MOSAIC.
  3. SPOT LIGHT FIXTURE SHALL NOT CREATE GLARE TO DRIVERS.

- NOTES:
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

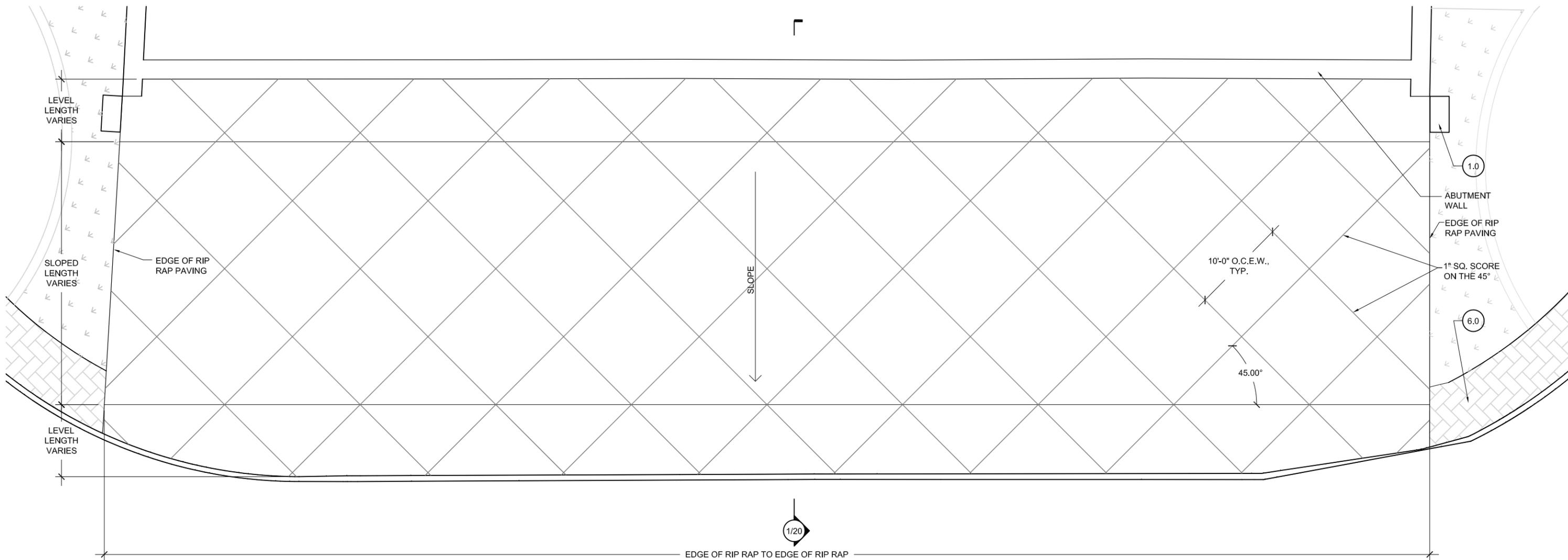
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# BRIDGE ABUTMENT WALLS & RIP RAP - SPIRIT OF TEXAS DRIVE



**NORTHWEST ABUTMENT AND SLOPED RIP RAP WALL PLAN**

SCALE: 1" = 10'

NOTE:  
EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

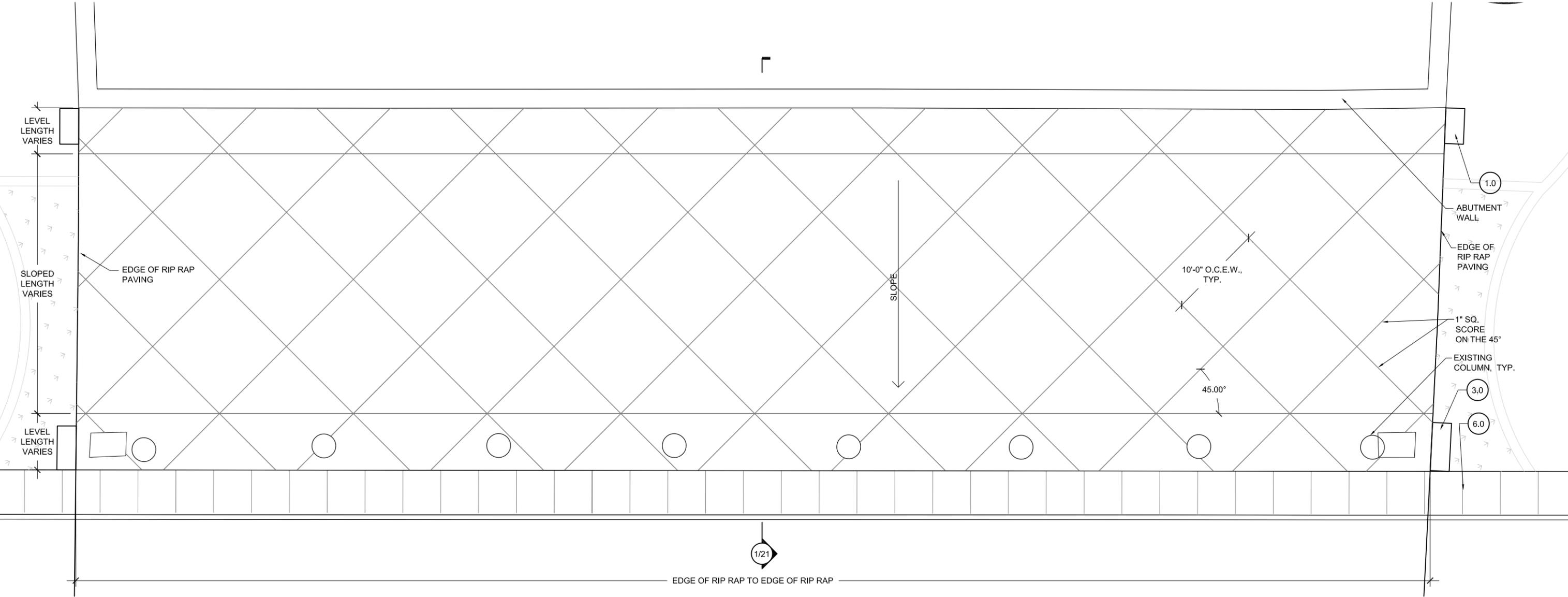
- (1.0) RETAINING WALLS & PILASTERS - Sheets 6-11
- (3.0) PYLONS - Sheets 25-30
- (5.0) LIGHTING STANDARDS - Sheets 33-36
- (7.0) LANDSCAPE - Sheets 47-63
- (2.0) BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- (4.0) SIGN STRUCTURES - Sheets 31-32
- (6.0) PAVING/ HARDSCAPE - Sheets 37-46
- (8.0) FINISH SCHEDULE - Sheets 64-65

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# BRIDGE ABUTMENT WALLS & RIP RAP - SPIRIT OF TEXAS DRIVE



SOUTHEAST ABUTMENT AND SLOPED RIP RAP WALL PLAN

SCALE: 1" = 10'

NOTE:  
EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

- ①.0 RETAINING WALLS & PILASTERS - Sheets 6-11
- ③.0 PYLONS - Sheets 25-30
- ⑤.0 LIGHTING STANDARDS - Sheets 33-36
- ⑦.0 LANDSCAPE - Sheets 47-63
- ②.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- ④.0 SIGN STRUCTURES - Sheets 31-32
- ⑥.0 PAVING/ HARDSCAPE - Sheets 37-46
- ⑧.0 FINISH SCHEDULE - Sheets 64-65

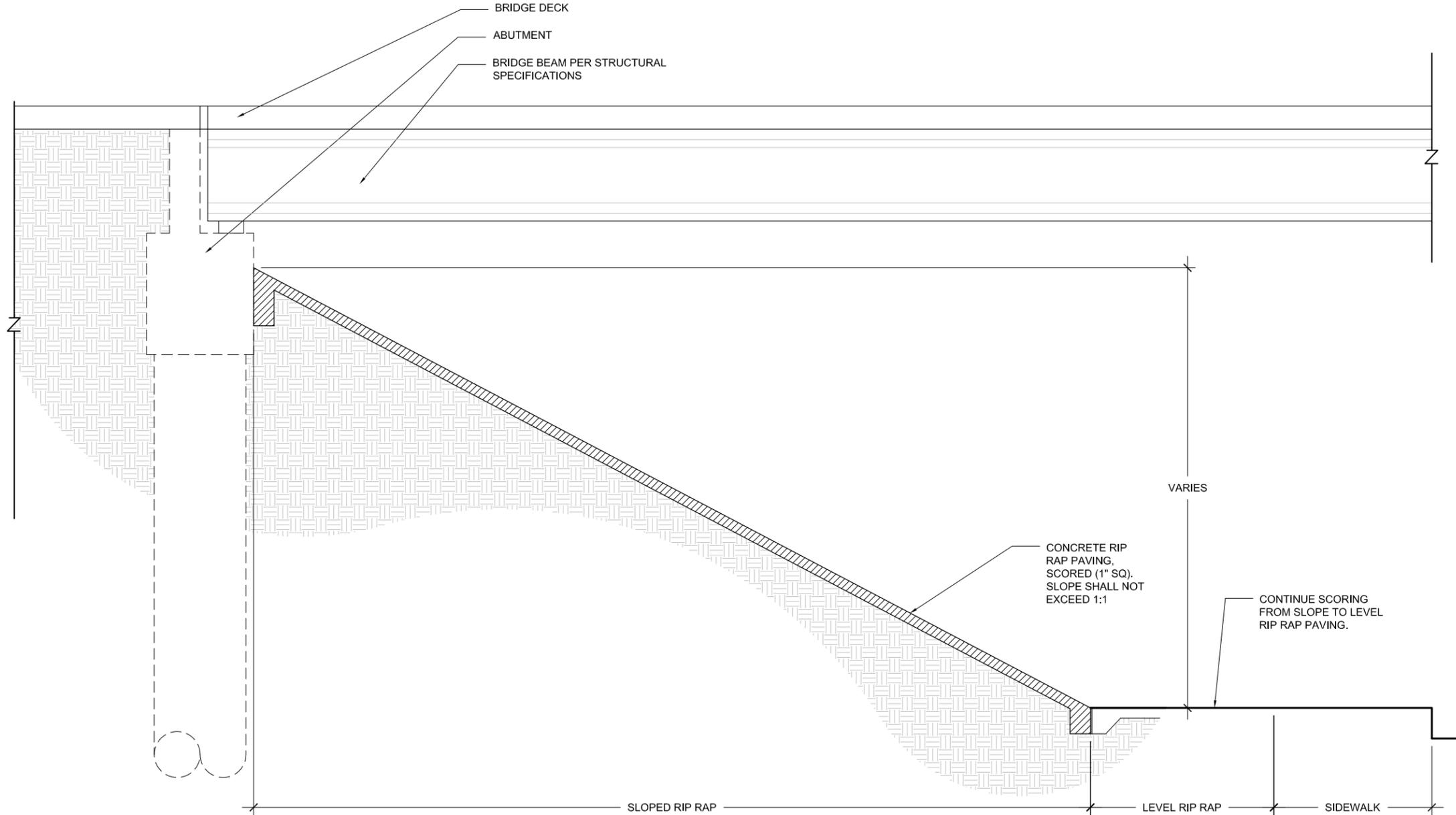
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# BRIDGE ABUTMENT WALLS & RIP RAP - SPIRIT OF TEXAS DRIVE



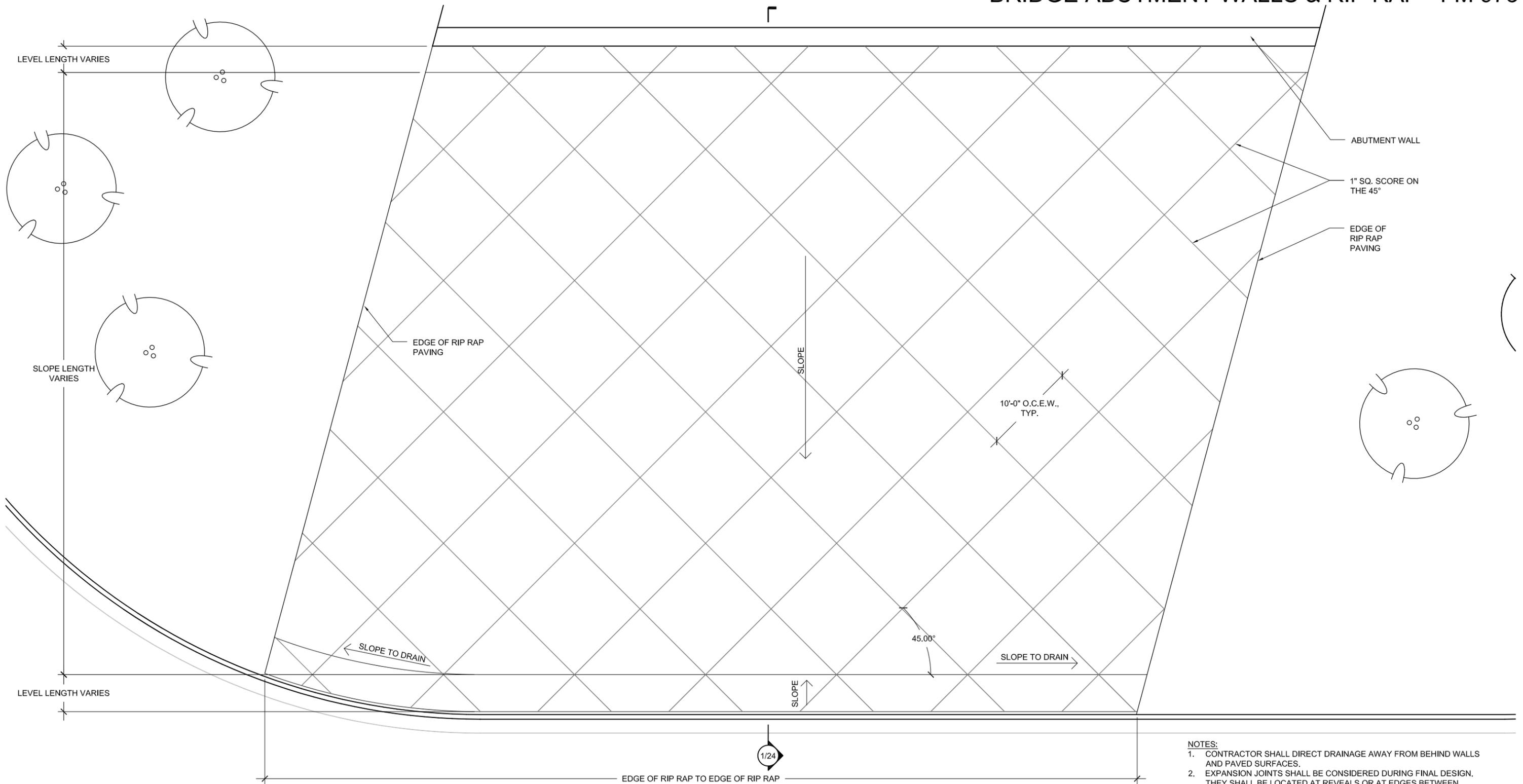
**1** ABUTMENT AND SLOPED RIP RAP WALL SECTION  
SCALE: 1" = 10'

NOTE:  
EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

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NORTHWEST ABUTMENT AND SLOPED RIP RAP WALL PLAN

SCALE: 1" = 10'

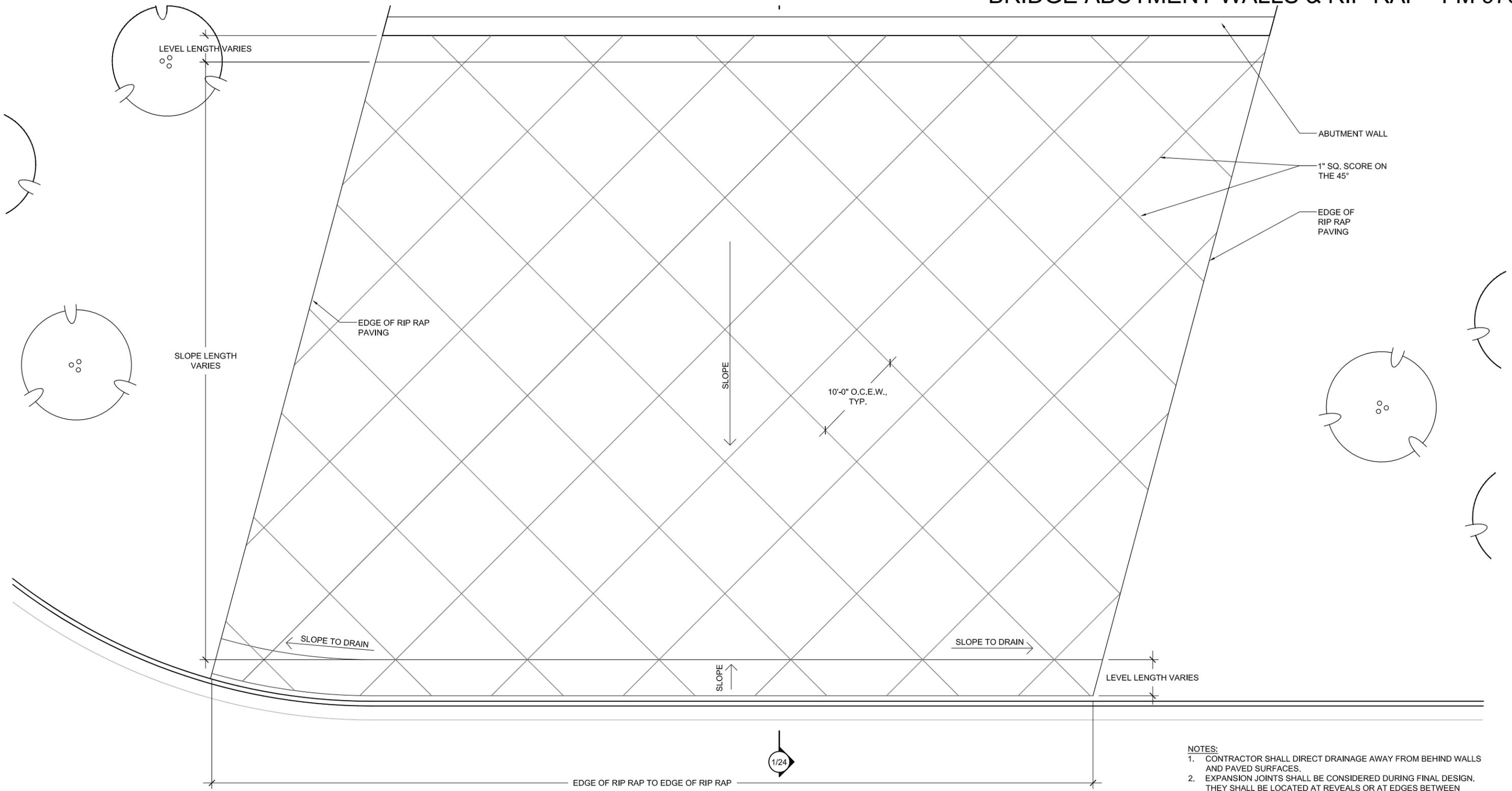
- NOTES:
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

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- NOTES:**
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

**SOUTHEAST ABUTMENT AND SLOPED RIP RAP WALL PLAN**

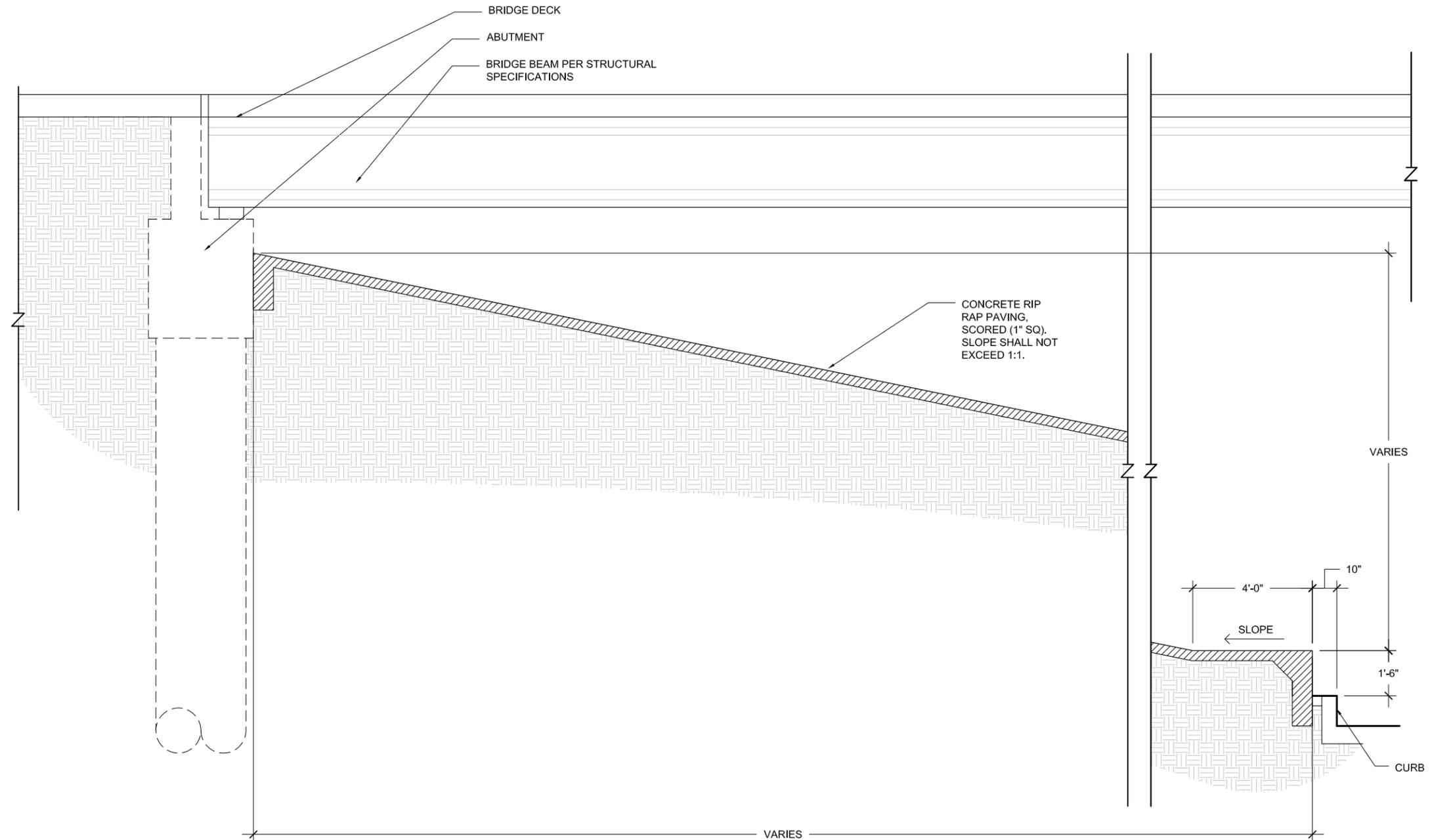
SCALE: 1" = 10'

- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

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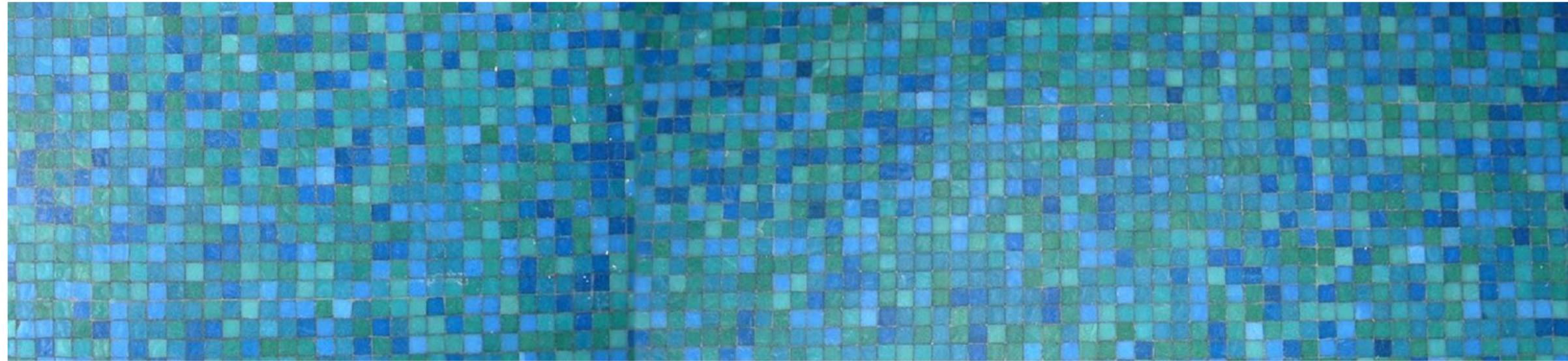
**1** ABUTMENT AND SLOPED RIP RAP WALL SECTION  
SCALE: 1/4" = 1'-0"

- NOTES:**
1. CONTRACTOR SHALL DIRECT DRAINAGE AWAY FROM BEHIND WALLS AND PAVED SURFACES.
  2. EXPANSION JOINTS SHALL BE CONSIDERED DURING FINAL DESIGN. THEY SHALL BE LOCATED AT REVEALS OR AT EDGES BETWEEN DIFFERENT ELEMENTS, SUCH AS PILASTERS AND RETAINING WALL PANELS, WHENEVER POSSIBLE.

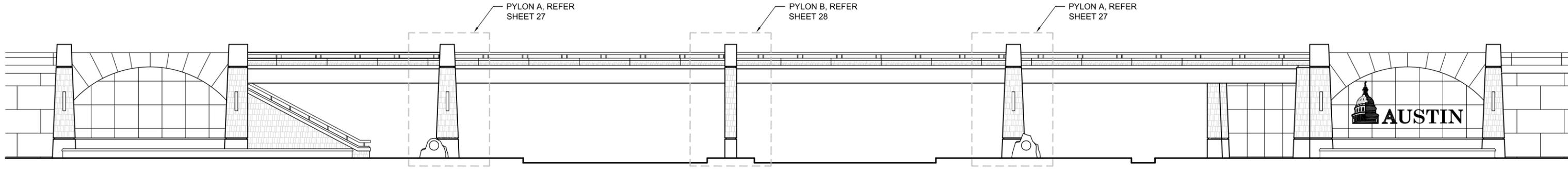
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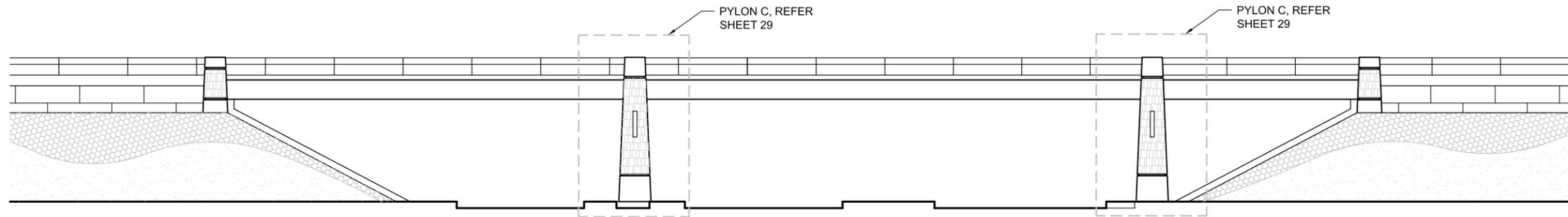
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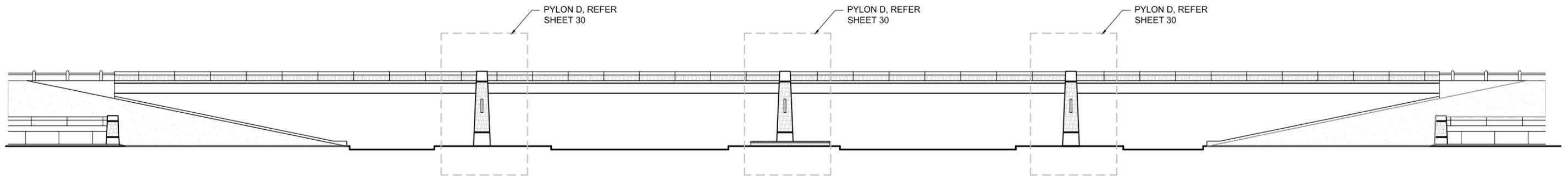
3.0 PYLONS



**1** PRESIDENTIAL BOULEVARD ELEVATION  
SCALE: 1" = 20'-0"



**2** SPIRIT OF TEXAS DRIVE ELEVATION  
SCALE: 1" = 20'-0"



**3** FM 973 ELEVATION  
SCALE: 1" = 30'-0"

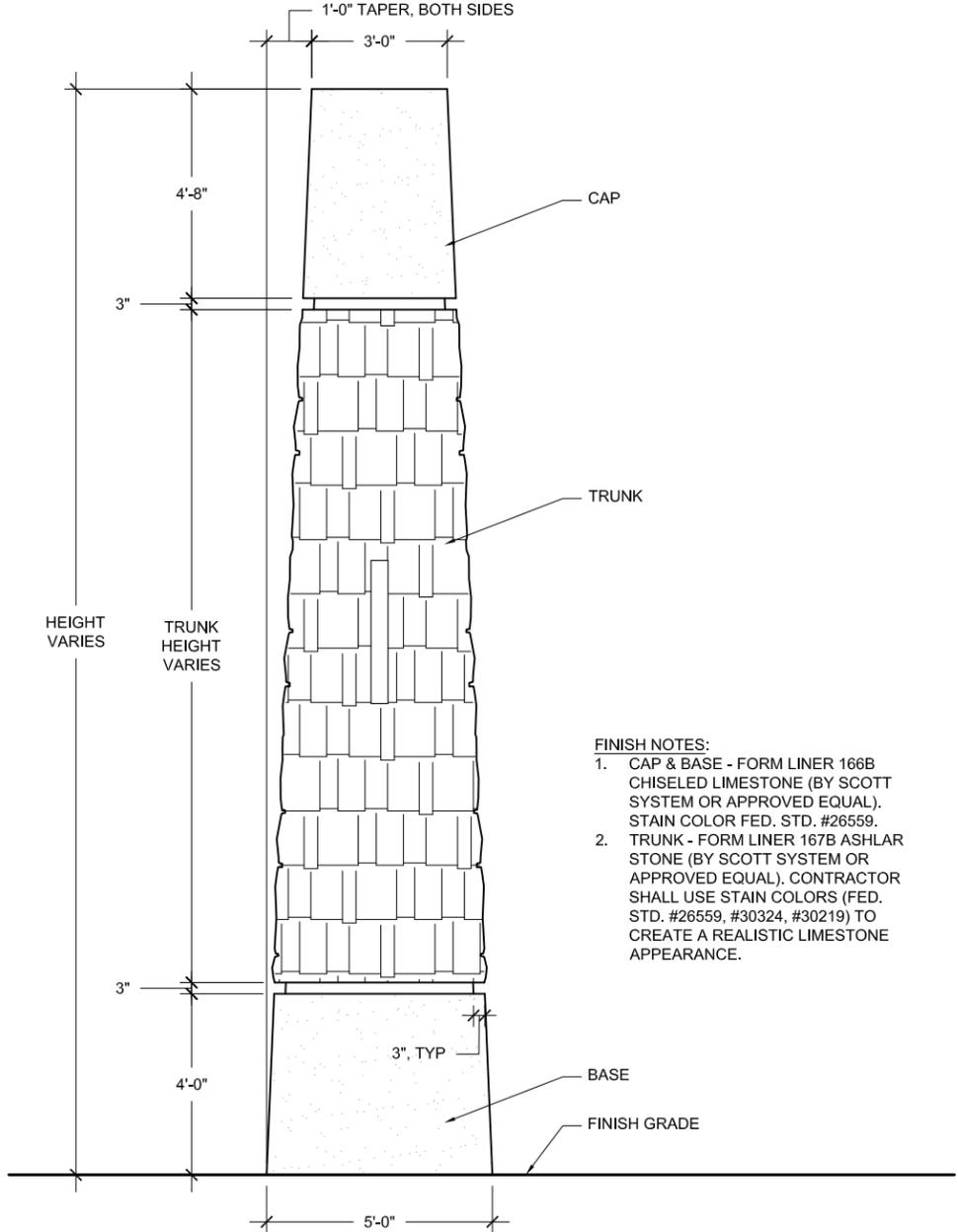
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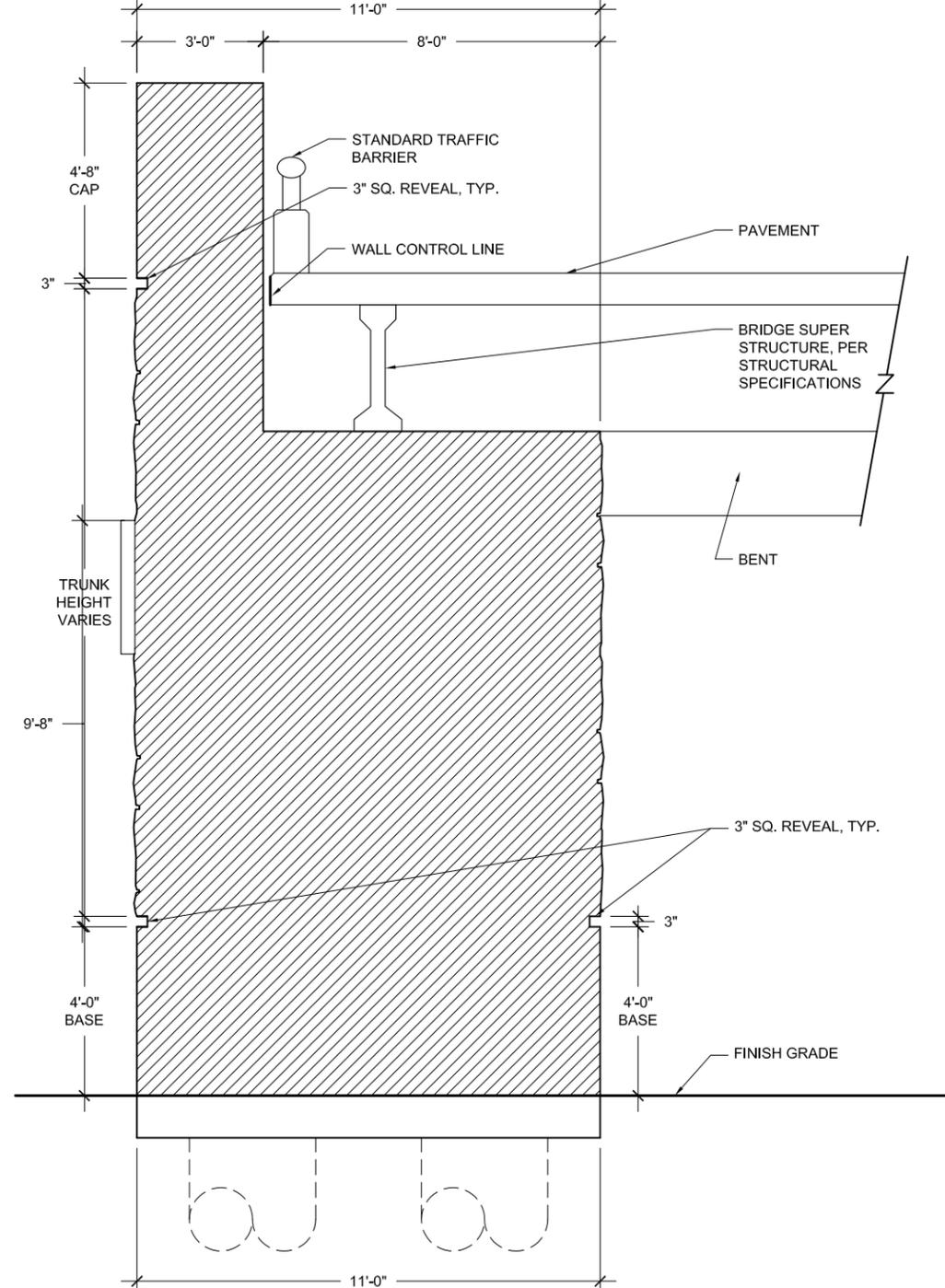
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# PYLONS - PRESIDENTIAL BOULEVARD DETAILS



**1** PYLON A ELEVATION  
SCALE: 1/4" = 1'-0"

- FINISH NOTES:**
1. CAP & BASE - FORM LINER 166B CHISELED LIMESTONE (BY SCOTT SYSTEM OR APPROVED EQUAL). STAIN COLOR FED. STD. #26559.
  2. TRUNK - FORM LINER 167B ASHLAR STONE (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

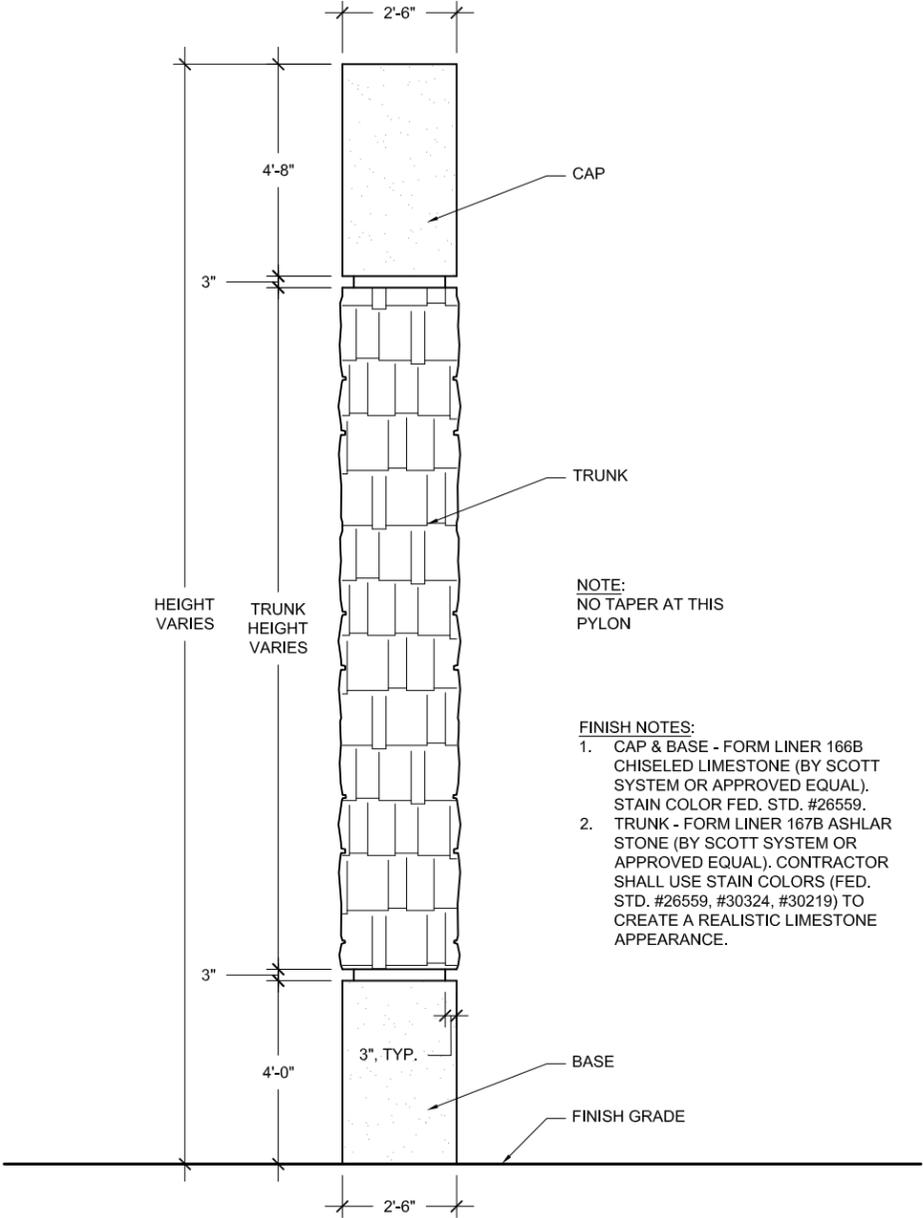


**2** PYLON A SECTION  
SCALE: 1/4" = 1'-0"

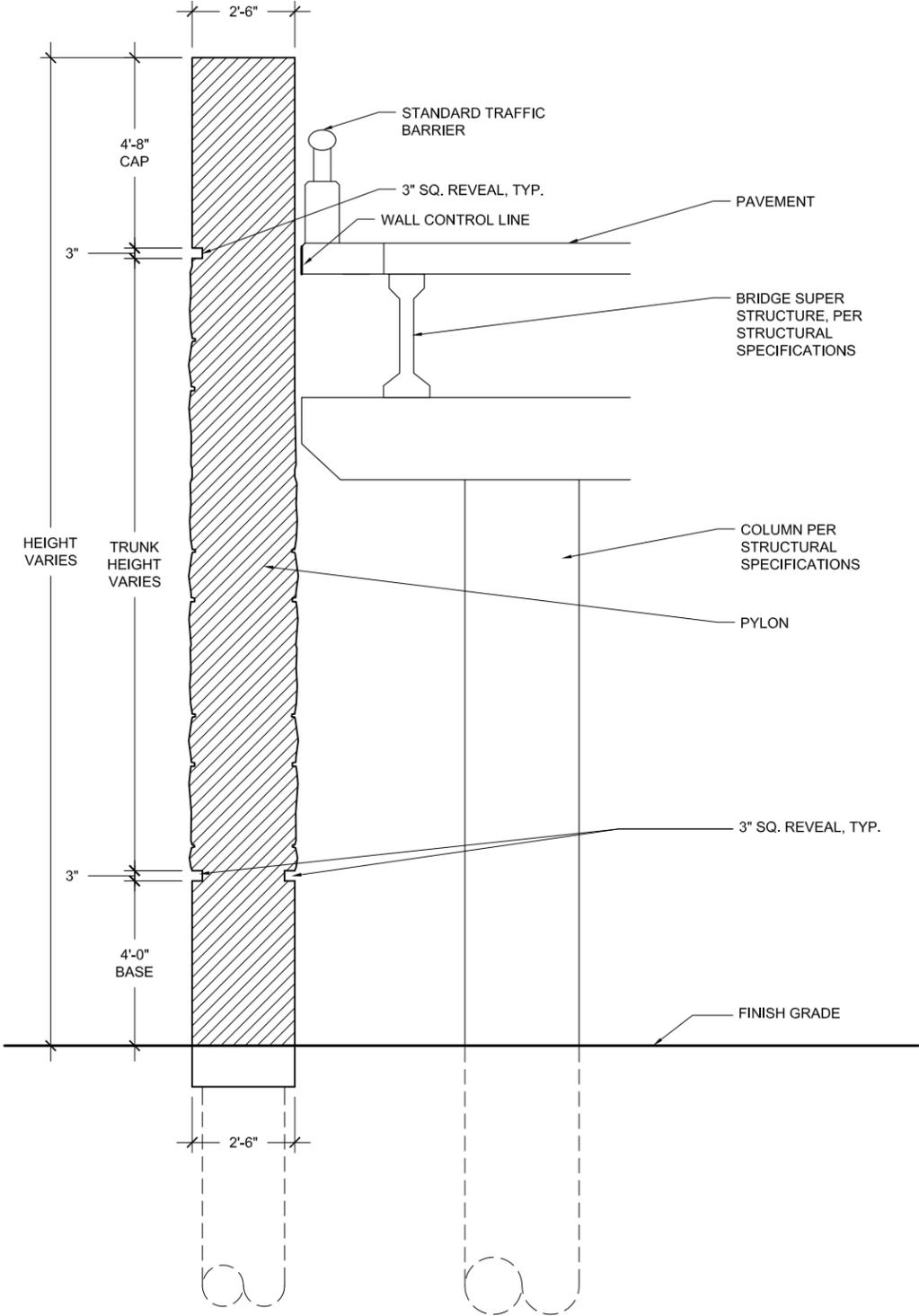
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**1** PYLON B ELEVATION  
SCALE: 1/4" = 1'-0"

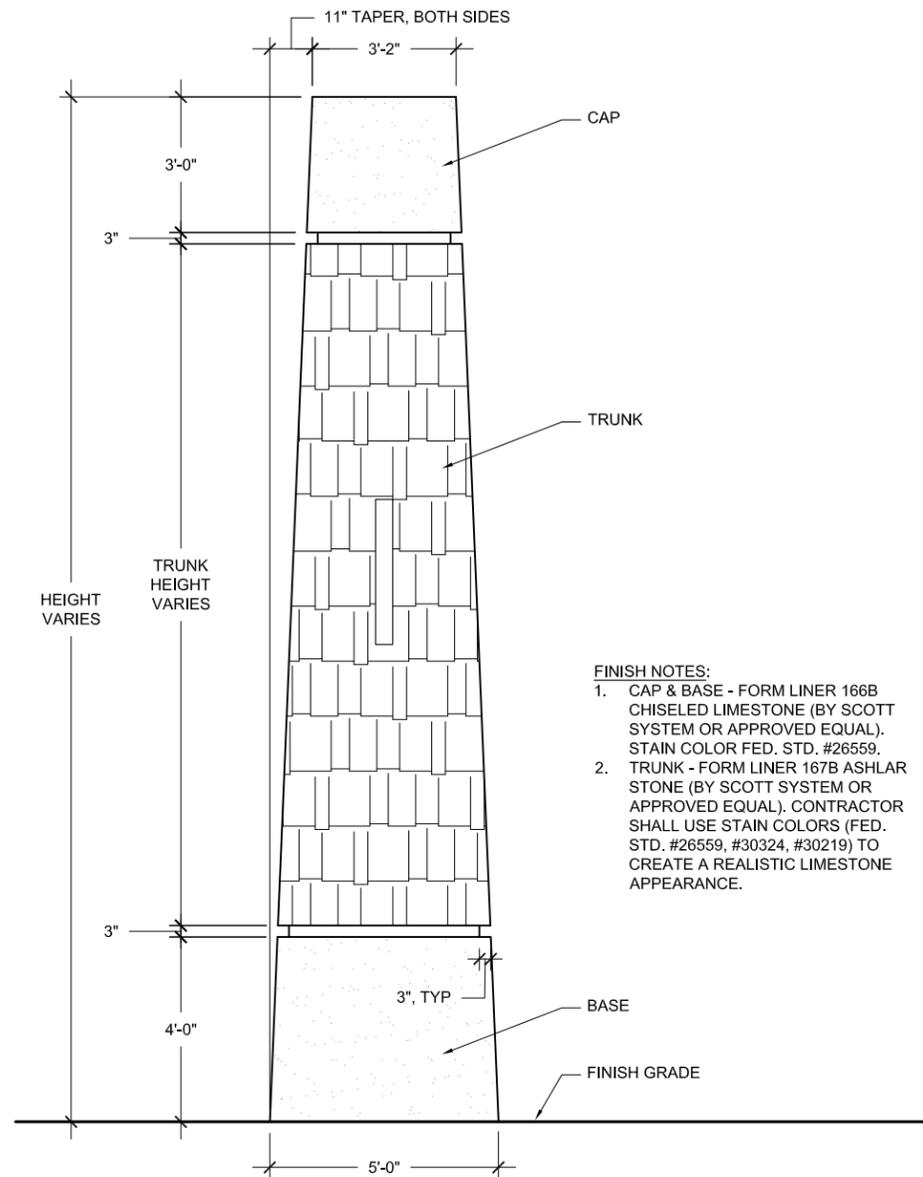


**2** PYLON B SECTION  
SCALE: 1/4" = 1'-0"

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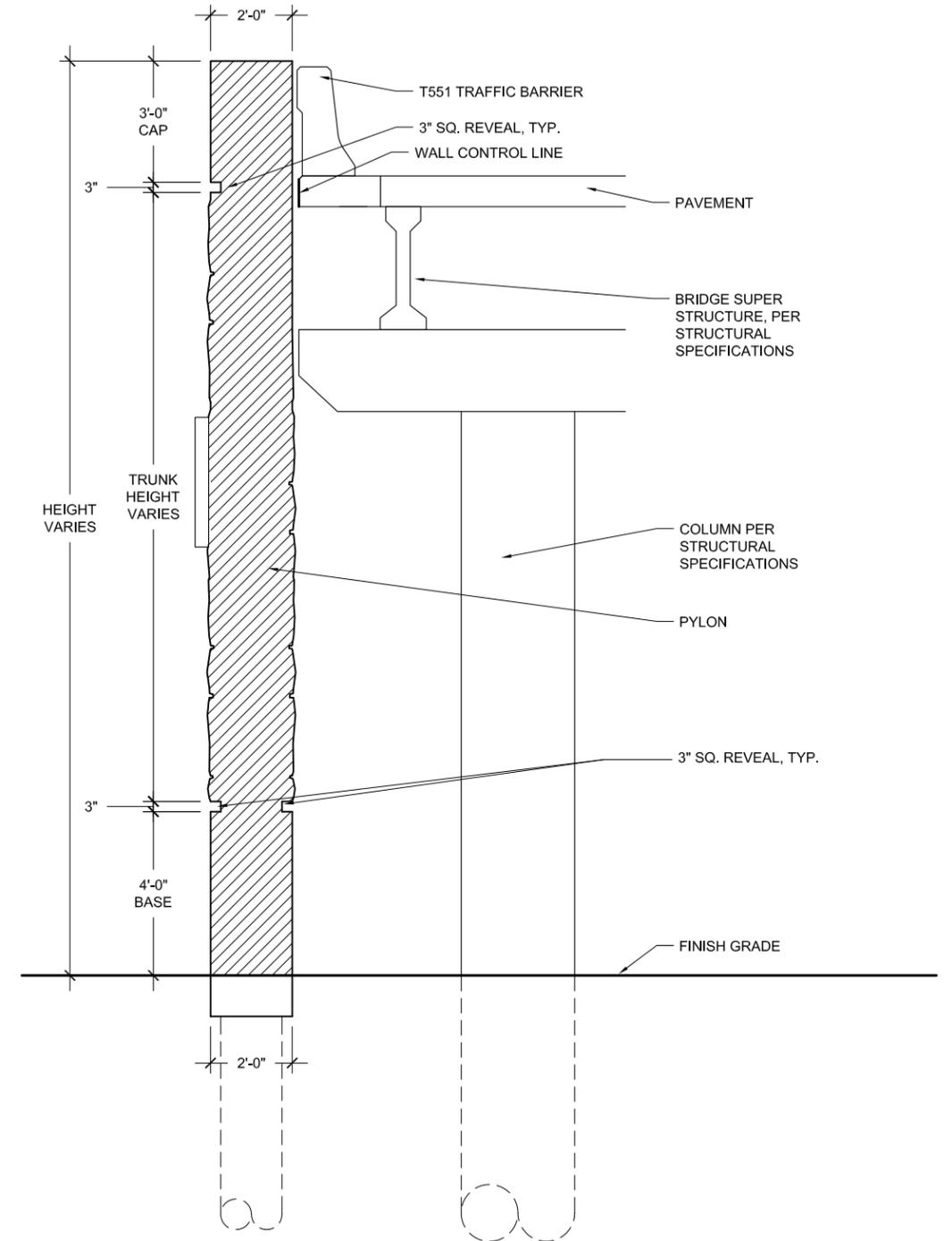


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- FINISH NOTES:**
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  2. TRUNK - FORM LINER 167B ASHLAR STONE (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

**1** PYLON C ELEVATION  
SCALE: 1/4" = 1'-0"

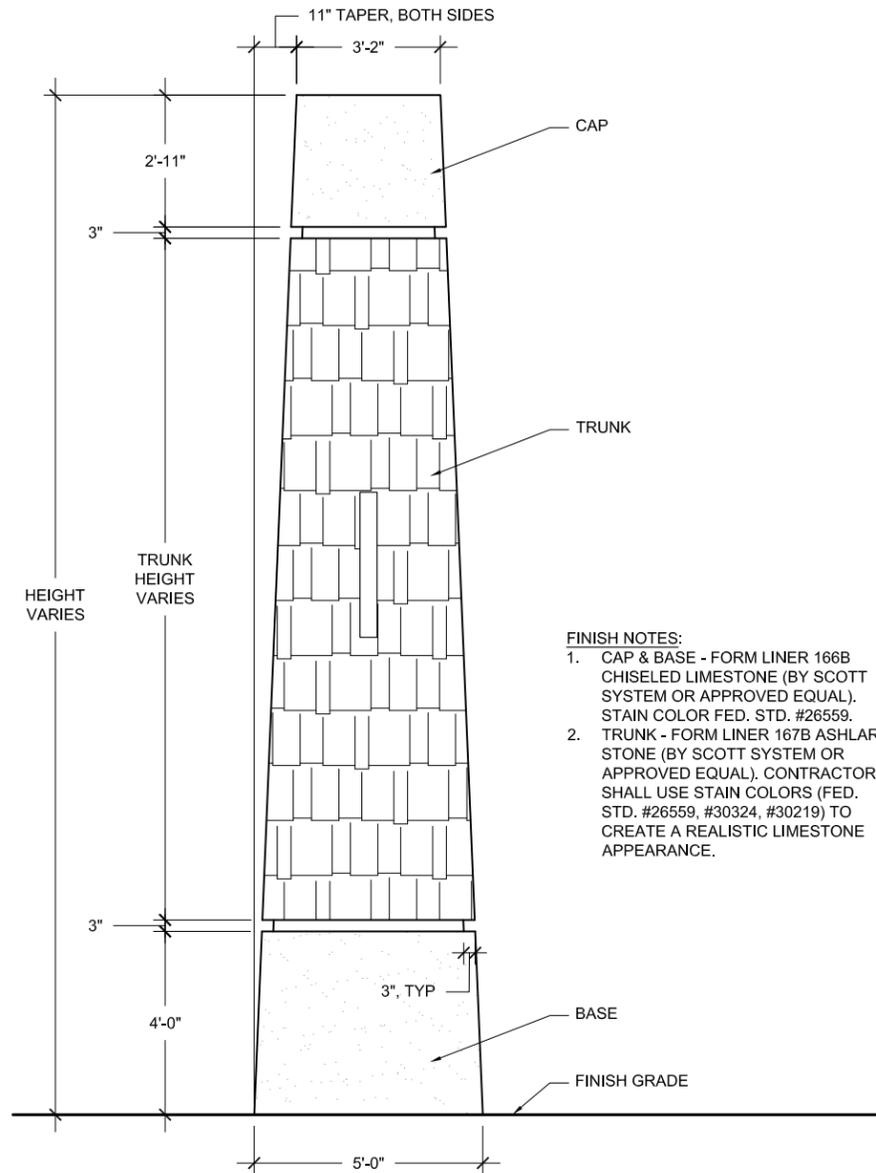


**2** PYLON C SECTION  
SCALE: 1/4" = 1'-0"

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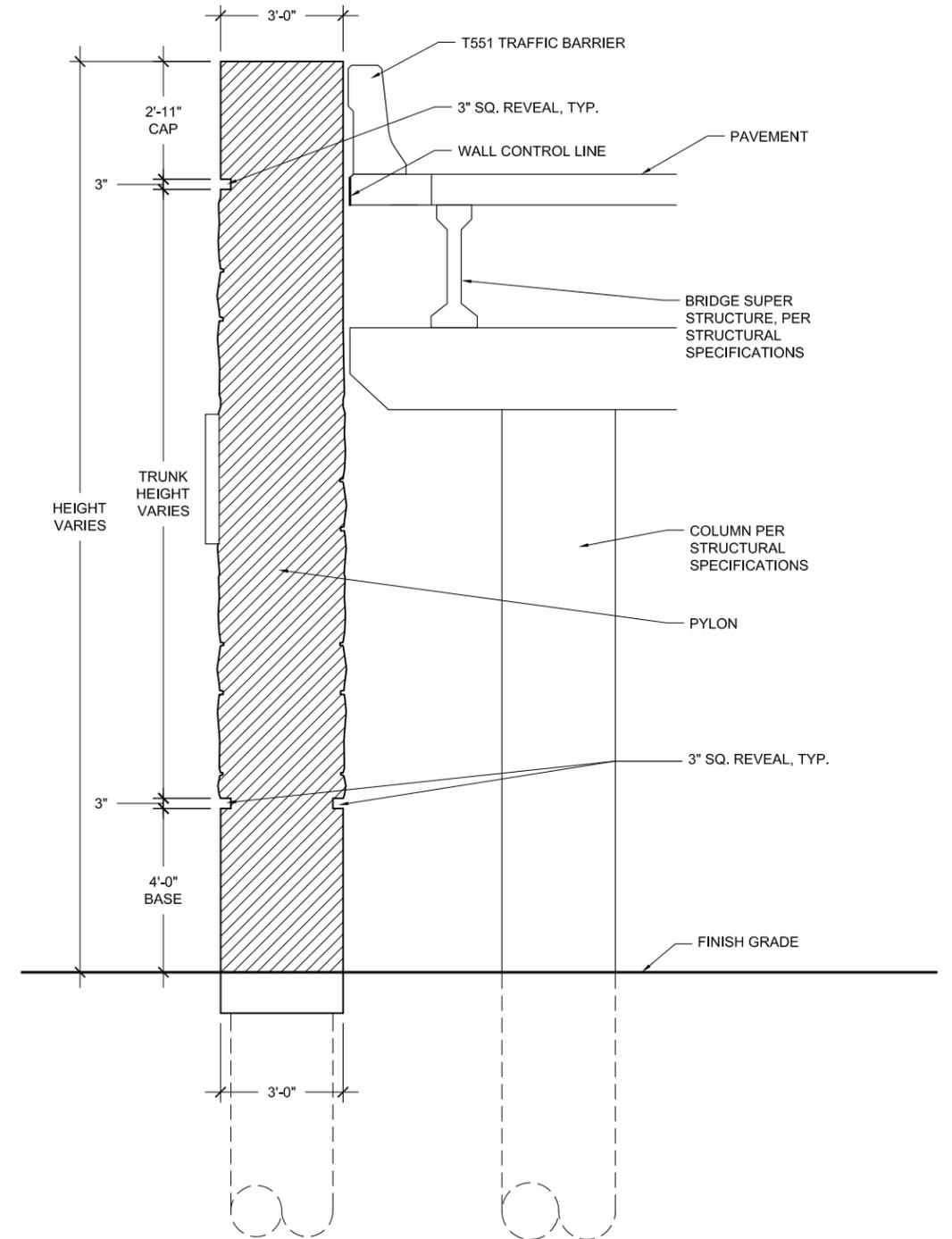


\* NOT INTENDED FOR PERMIT OR CONSTRUCTION. ALL MATERIALS, DETAILS, AND LOCATION OF ELEMENTS SHOWN AS PART OF THIS DOCUMENT ARE SUBJECT TO FINAL PLANS AND SPECIFICATIONS.



- FINISH NOTES:**
1. CAP & BASE - FORM LINER 166B CHISELED LIMESTONE (BY SCOTT SYSTEM OR APPROVED EQUAL). STAIN COLOR FED. STD. #26559.
  2. TRUNK - FORM LINER 167B ASHLAR STONE (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

**1** PYLON D ELEVATION  
SCALE: 1/4" = 1'-0"

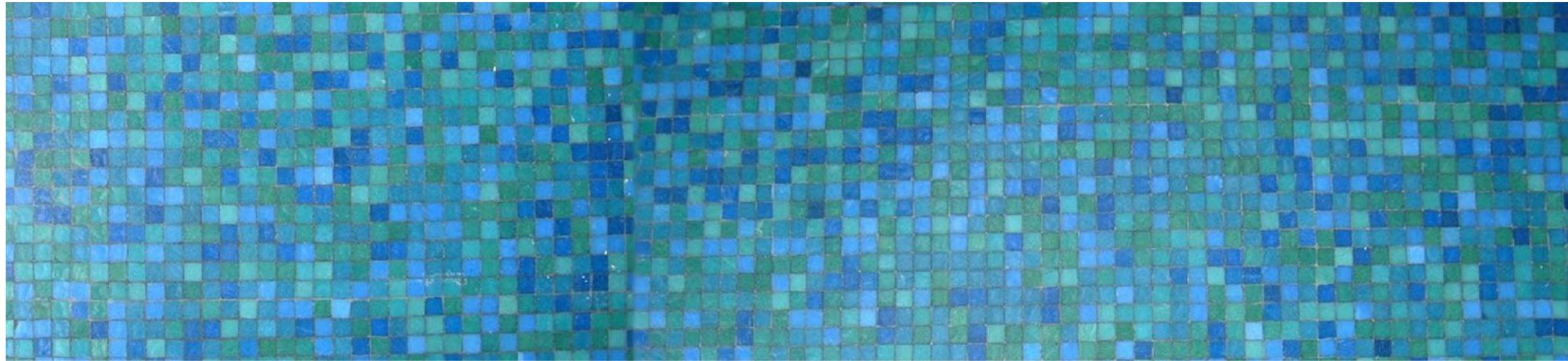


**2** PYLON D SECTION  
SCALE: 1/4" = 1'-0"

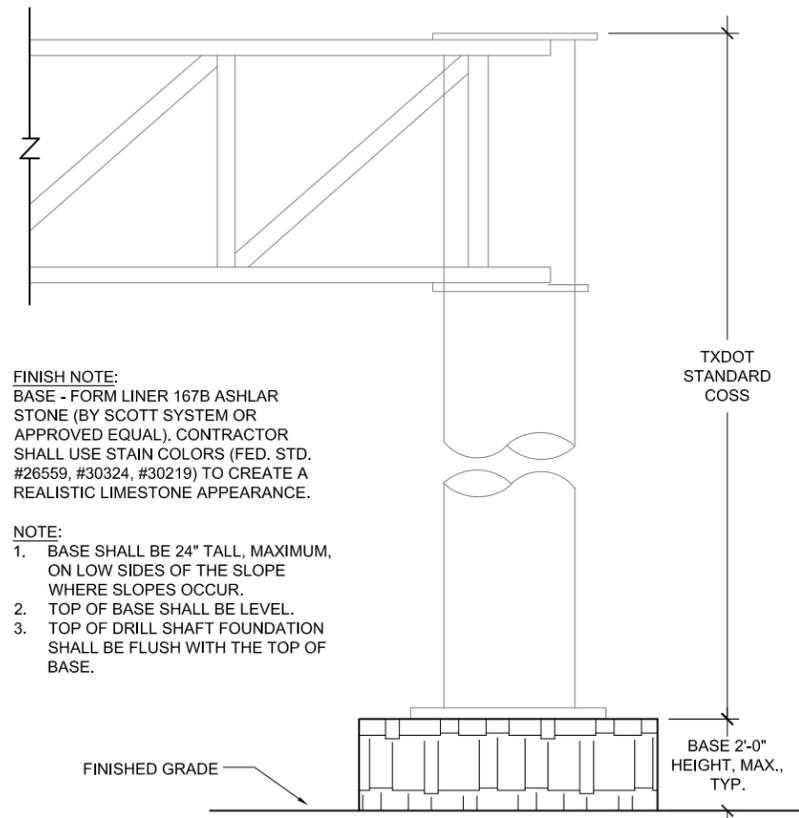
DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



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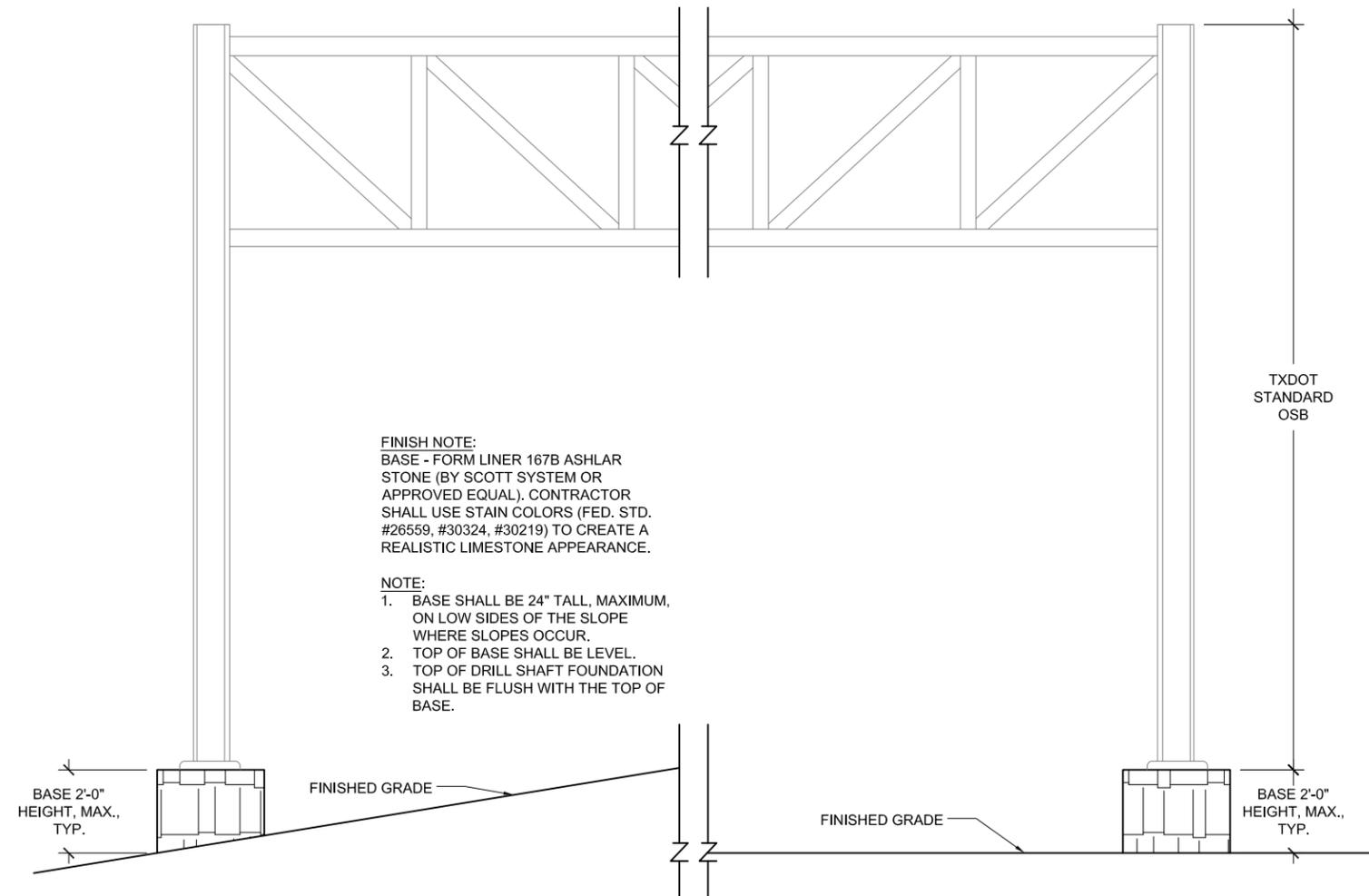
## 4.0 SIGN STRUCTURES



**FINISH NOTE:**  
 BASE - FORM LINER 167B ASHLAR STONE (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

- NOTE:**
1. BASE SHALL BE 24" TALL, MAXIMUM, ON LOW SIDES OF THE SLOPE WHERE SLOPES OCCUR.
  2. TOP OF BASE SHALL BE LEVEL.
  3. TOP OF DRILL SHAFT FOUNDATION SHALL BE FLUSH WITH THE TOP OF BASE.

**1** COSS SIGN BASE  
 SCALE: 1/4" = 1'-0"



**FINISH NOTE:**  
 BASE - FORM LINER 167B ASHLAR STONE (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

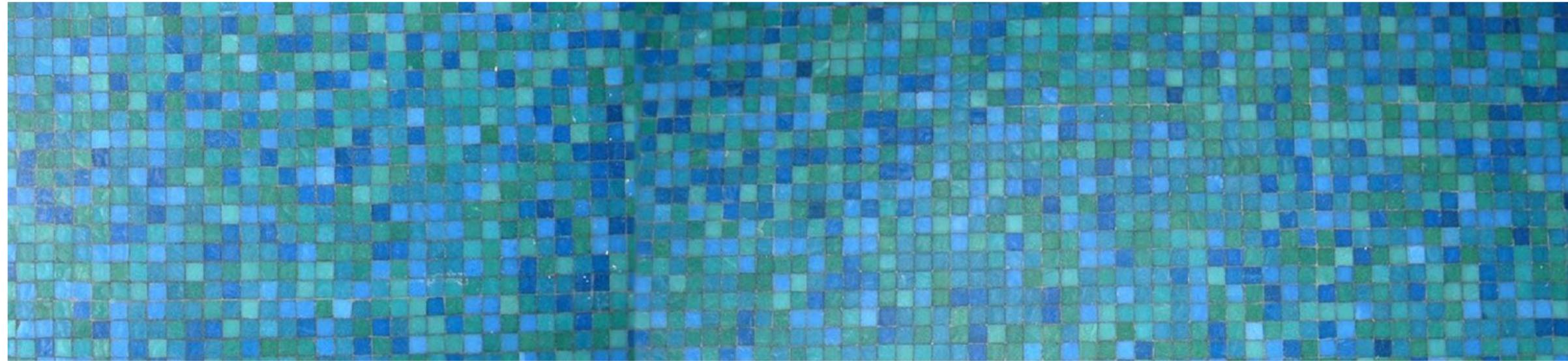
- NOTE:**
1. BASE SHALL BE 24" TALL, MAXIMUM, ON LOW SIDES OF THE SLOPE WHERE SLOPES OCCUR.
  2. TOP OF BASE SHALL BE LEVEL.
  3. TOP OF DRILL SHAFT FOUNDATION SHALL BE FLUSH WITH THE TOP OF BASE.

**2** OSB SIGN BASE  
 SCALE: 1/4" = 1'-0"

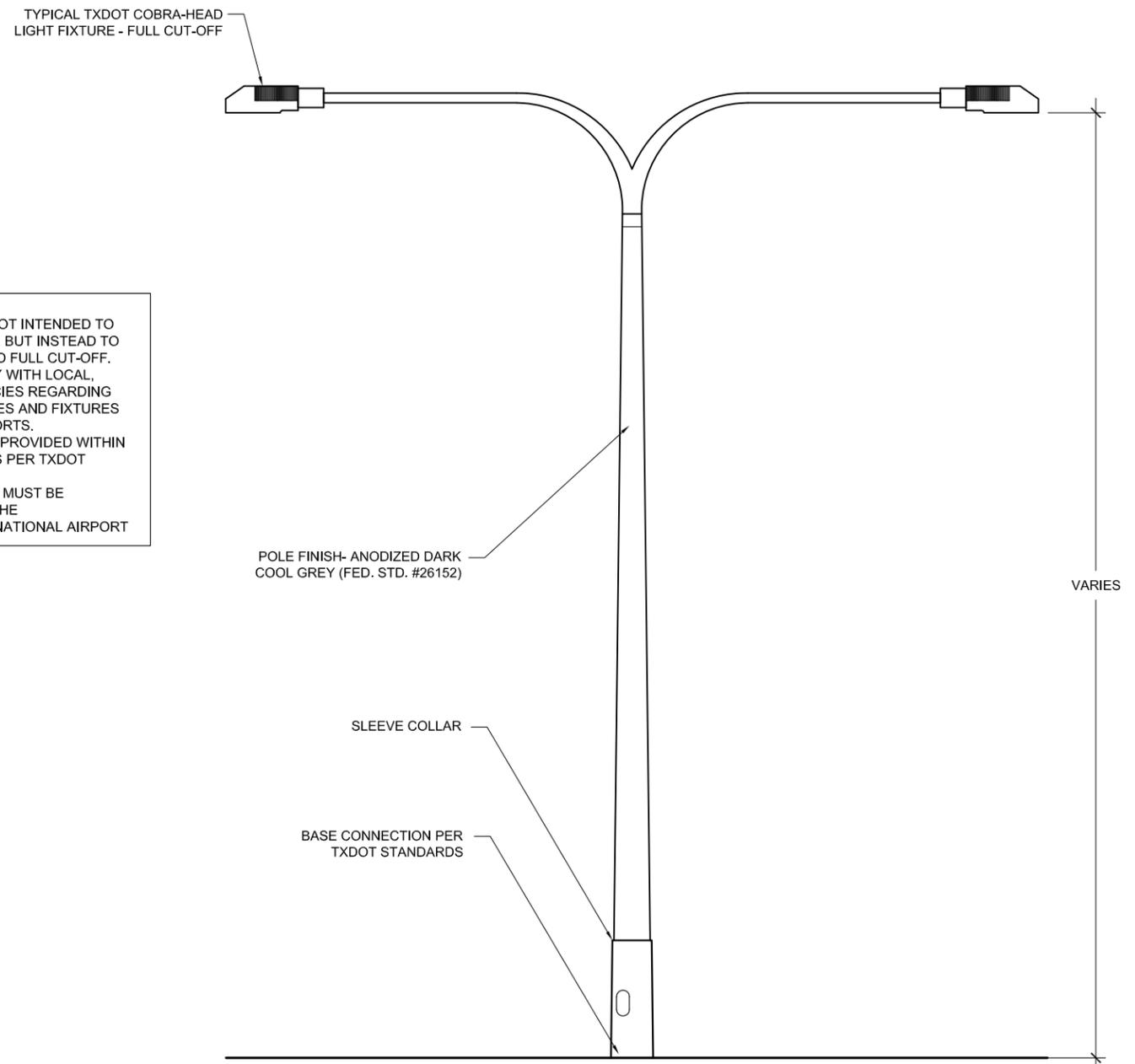
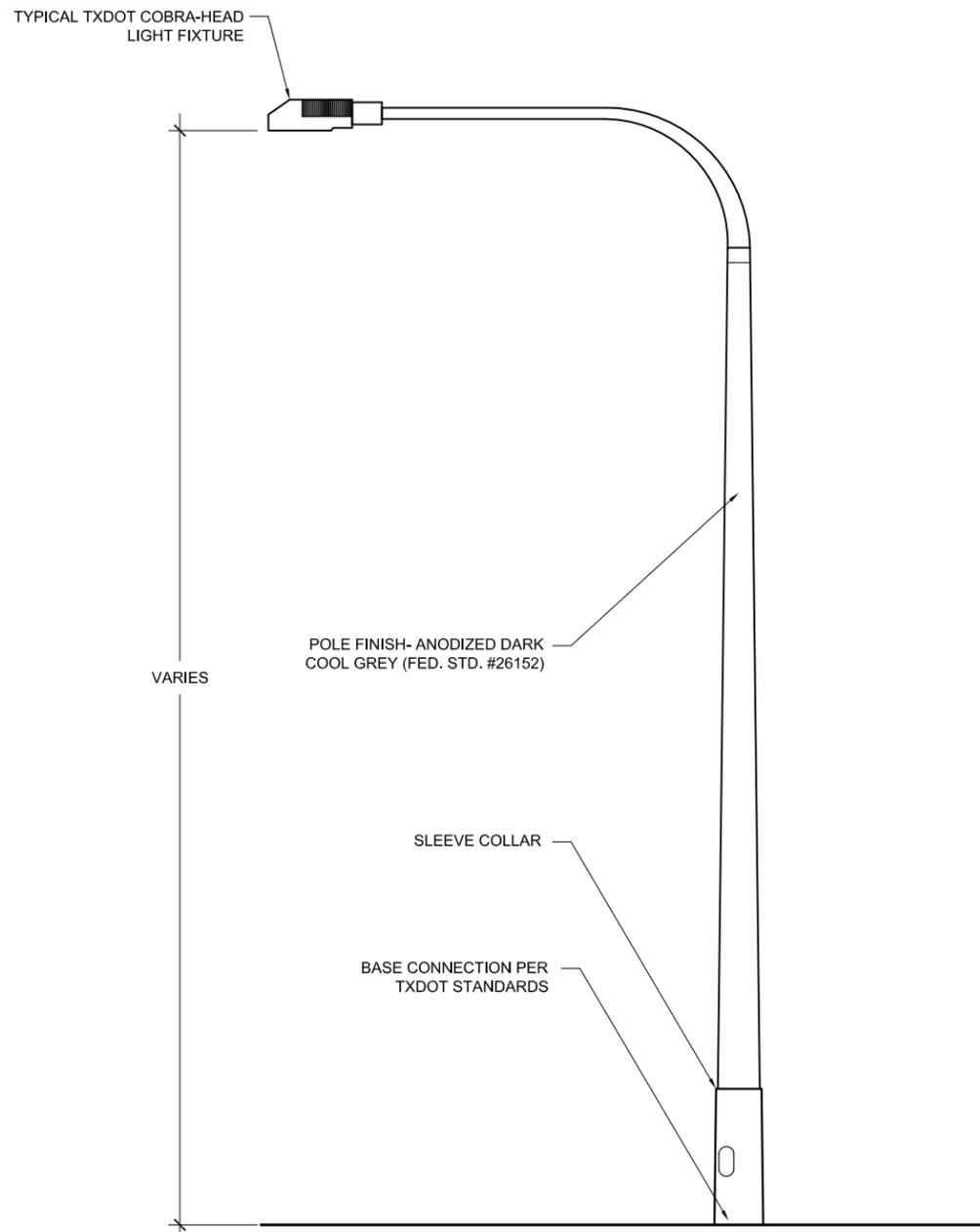
DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



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5.0 LIGHTING STANDARDS



**NOTES:**

1. DEPICTION OF POLES ARE NOT INTENDED TO INDICATE FURNISHING TYPE, BUT INSTEAD TO SHOW FINISH AND REQUIRED FULL CUT-OFF.
2. CONTRACTOR SHALL VERIFY WITH LOCAL, STATE AND FEDERAL AGENCIES REGARDING THE HEIGHTS OF LIGHT POLES AND FIXTURES WITHIN PROXIMITY TO AIRPORTS.
3. SAFETY LIGHTING SHALL BE PROVIDED WITHIN THE ENTIRE PROJECT LIMITS PER TXDOT STANDARDS.
4. LIGHT FIXTURES AND POLES MUST BE APPROVED BY TXDOT AND THE AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

**1** SINGLE DAVIT STYLE HORIZONTAL ARM W/ POLE  
SCALE: 1/4" = 1'-0"

**2** DOUBLE DAVIT STYLE HORIZONTAL ARM W/ POLE  
SCALE: 1/4" = 1'-0"

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

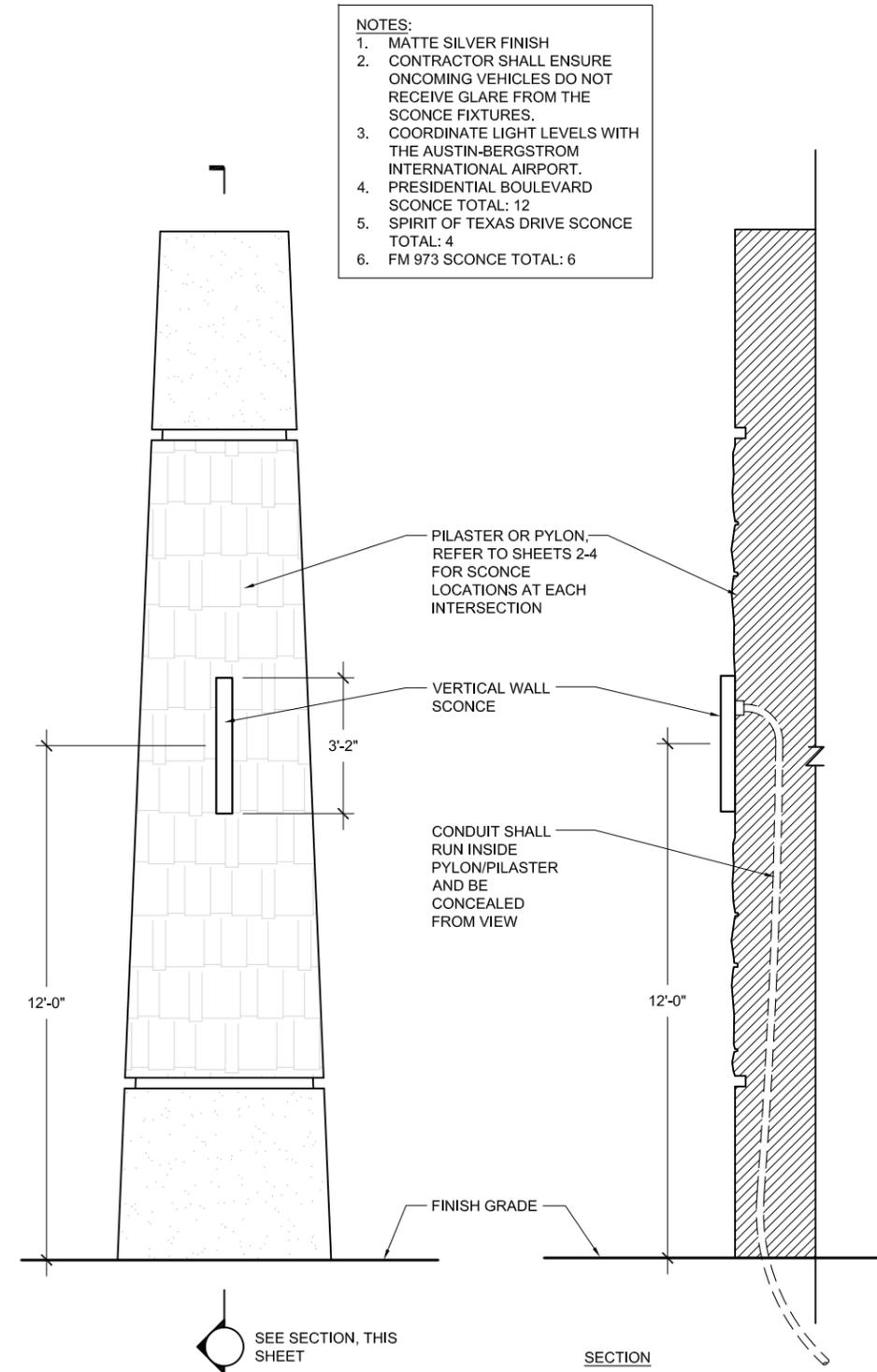


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- NOTES:**
1. BOLLARD LIGHTING SHALL MAINTAIN A MINIMUM AVERAGE OF .2 FOOTCANDLES ALONG THE SHARED USE PATH. CONTRACTOR SHALL OBTAIN AUSTIN-BERGSTROM INTERNATIONAL AIRPORT APPROVAL FOR ALL LIGHTING LEVELS.
  2. BOLLARD SHALL BE FULL CUT OFF.
  3. NUMBER OF UNITS SHALL DEPEND ON STATE, FEDERAL AND AVIATION LIGHTING REQUIREMENTS FOR PEDESTRIAN AND BICYCLE SHARED USED PATHS AND MANUFACTURER RECOMMENDATIONS.

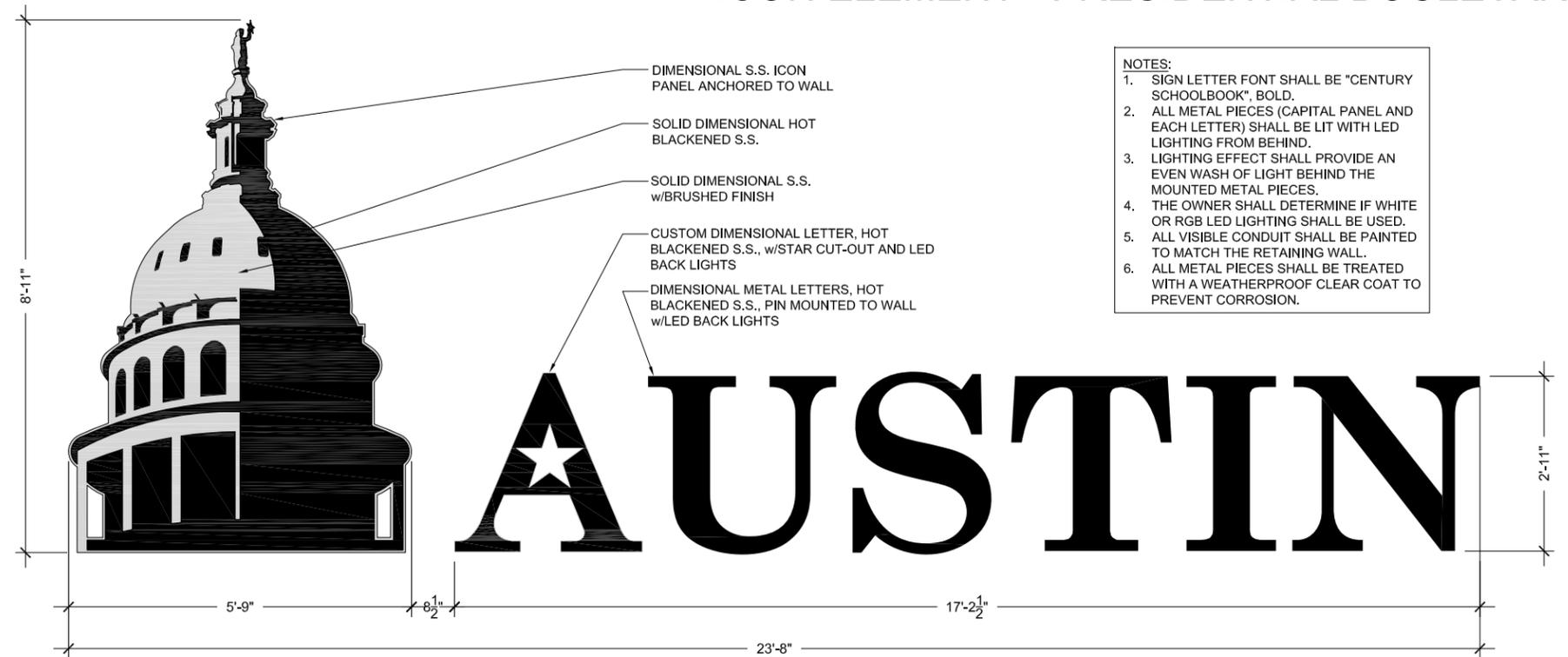
**1** SHARED USE PATH - TYPICAL LIT BOLLARD  
SCALE: NOT TO SCALE



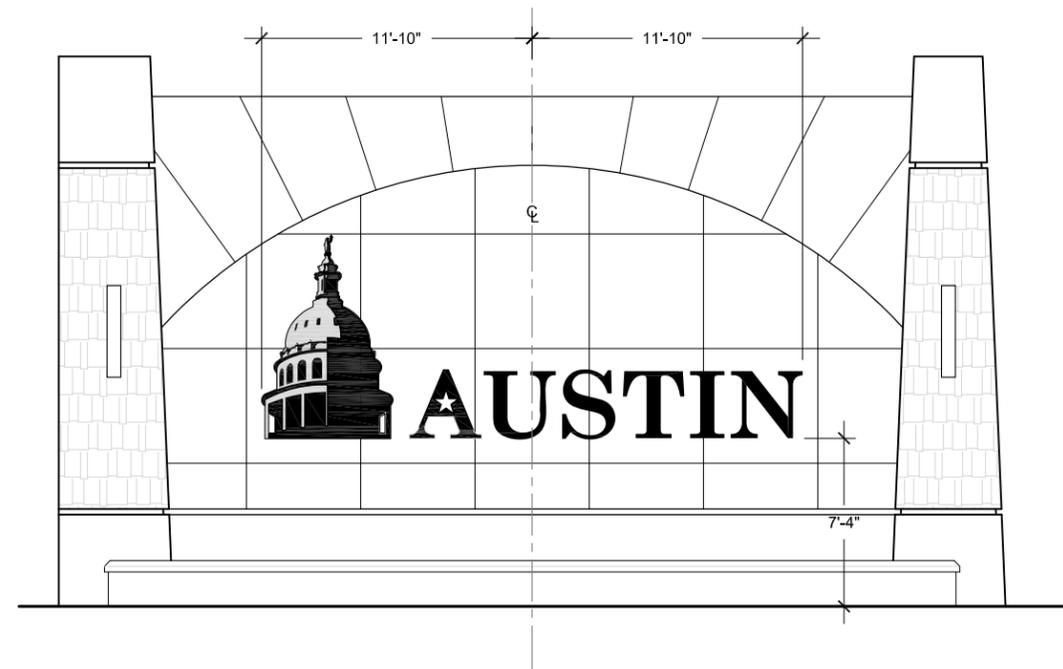
**2** TYPICAL DECORATIVE SCONCE  
SCALE: 1/4" = 1'-0"

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.





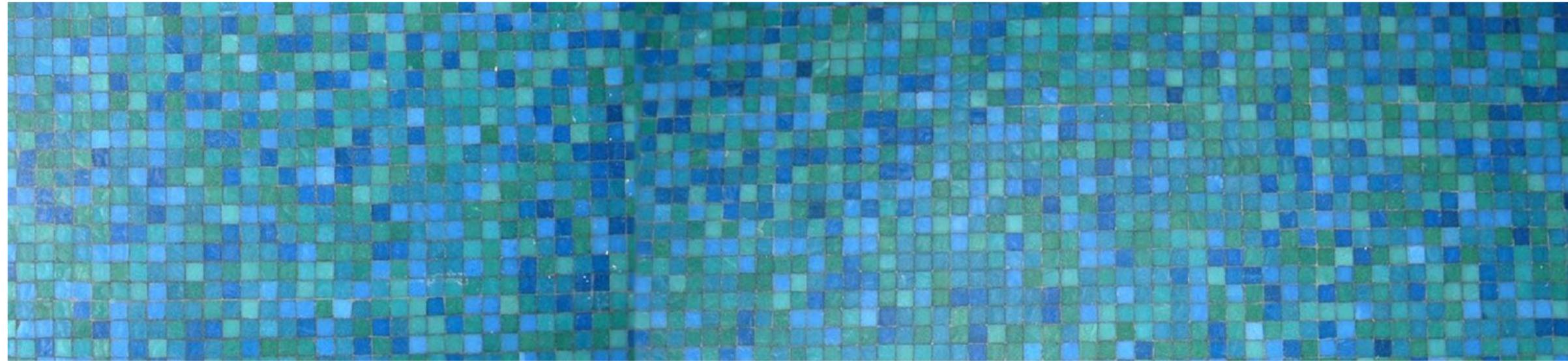
1 ICON ELEMENT DETAIL  
SCALE: 1/4" = 1'-0"



2 ICON ELEMENT WALL PLACEMENT DETAIL  
SCALE: 1/8" = 1'-0"

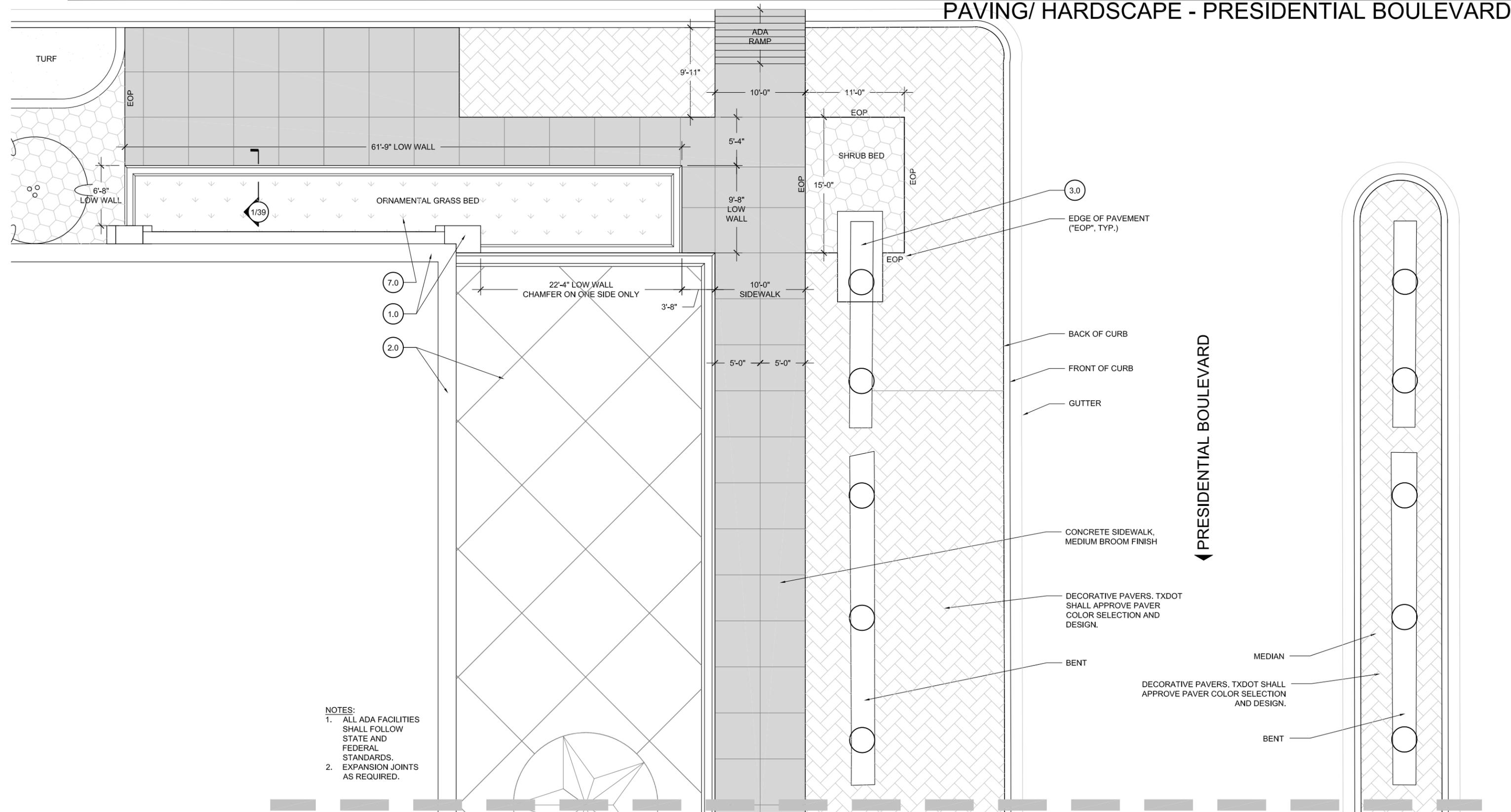
DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.





6.0 PAVING, HARDSCAPE & SHARED USE PATH

PAVING/ HARDSCAPE - PRESIDENTIAL BOULEVARD



NOTES:  
 1. ALL ADA FACILITIES SHALL FOLLOW STATE AND FEDERAL STANDARDS.  
 2. EXPANSION JOINTS AS REQUIRED.

HARDSCAPE PLAN

SCALE: 1" = 10'

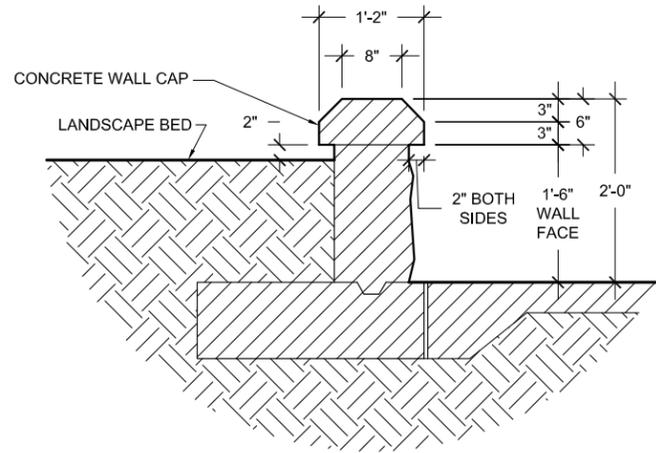
- (1.0) RETAINING WALLS & PILASTERS - Sheets 6-11
- (3.0) PYLONS - Sheets 25-30
- (5.0) LIGHTING STANDARDS - Sheets 33-36
- (7.0) LANDSCAPE - Sheets 47-63
- (2.0) BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- (4.0) SIGN STRUCTURES - Sheets 31-32
- (6.0) PAVING/ HARDSCAPE - Sheets 37-46
- (8.0) FINISH SCHEDULE - Sheets 64-65

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



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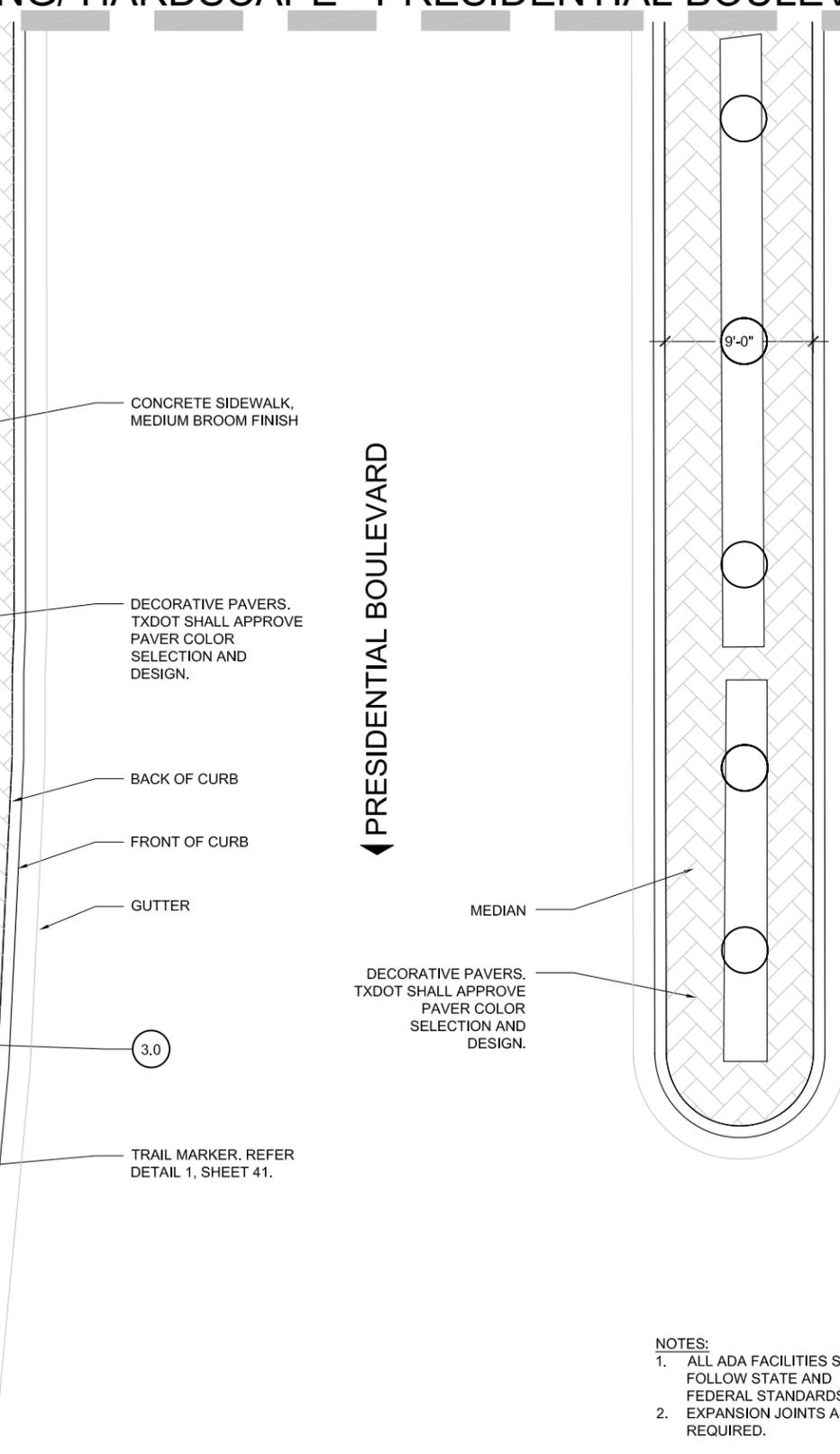
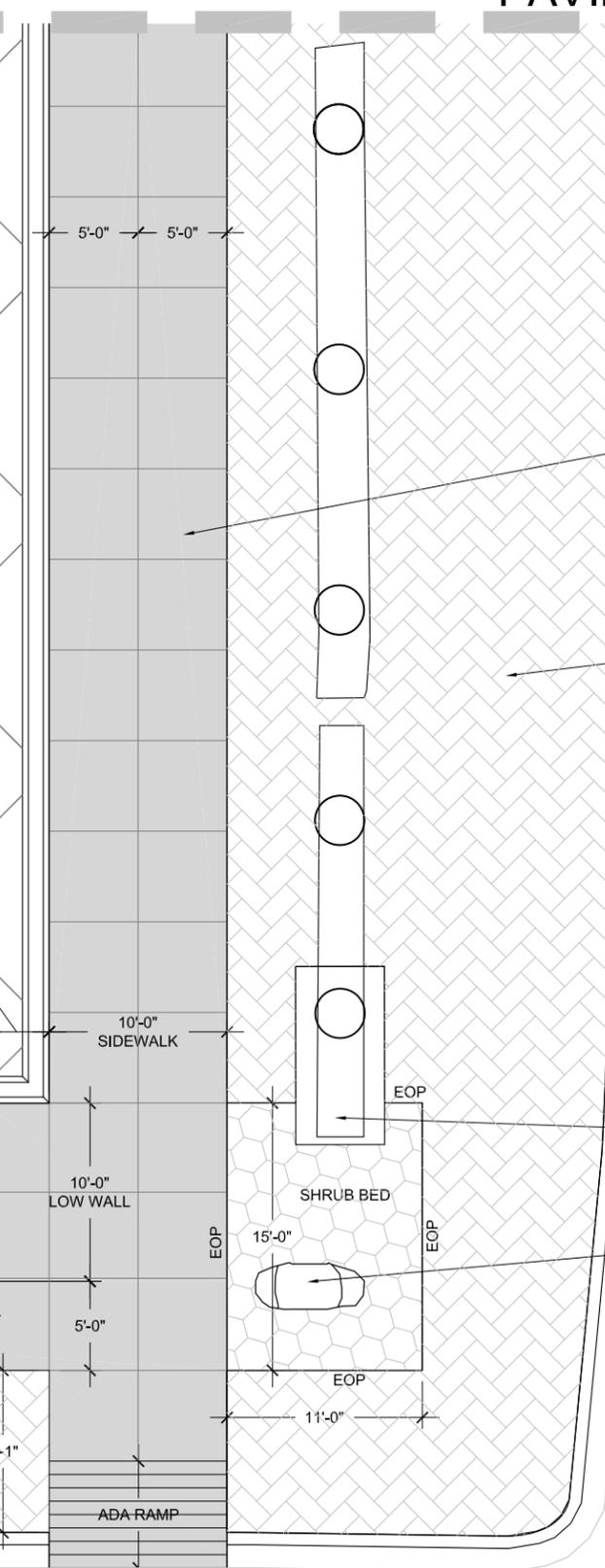
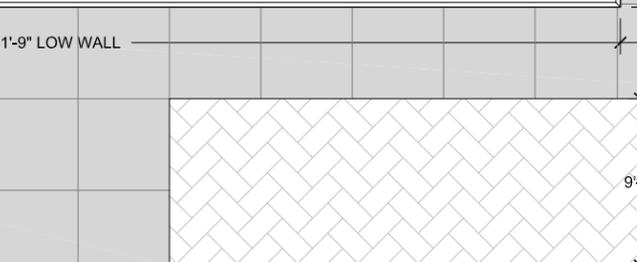
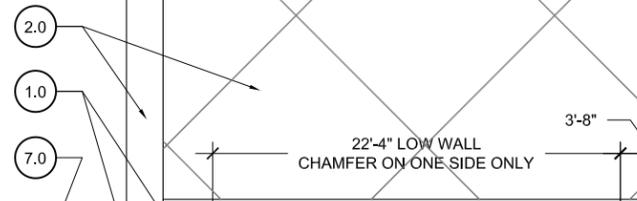
MATCHLINE A - SEE SHEET 38



- CONSTRUCTION NOTES:**
- FOOTING AND WALL REINFORCEMENT SUBJECT TO FINAL PLANS AND SPECIFICATIONS.
  - CONTRACTOR SHALL PLACE WEEP HOLES IN WALL TO ALLOW FOR BED DRAINAGE.

- FINISH NOTES:**
- CONCRETE WALL CAP - 3" CHAMFER BOTH SIDES UNLESS OTHERWISE NOTED ON PLAN. SMOOTH TROWEL FINISH. INSTALLATION & REINFORCEMENT PER STRUCTURAL SPECIFICATIONS. STAIN COLOR FED. STD. #26559.
  - WALL FACE - FORM LINER 166D CHISELED LIMESTONE WITH JOINTS (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

**1 LOW WALL SECTION**  
SCALE: 1/2" = 1'-0"



PRESIDENTIAL BOULEVARD

PRESIDENTIAL BOULEVARD

- NOTES:**
- ALL ADA FACILITIES SHALL FOLLOW STATE AND FEDERAL STANDARDS.
  - EXPANSION JOINTS AS REQUIRED.

**HARDSCAPE PLAN**  
SCALE: 1" = 10'

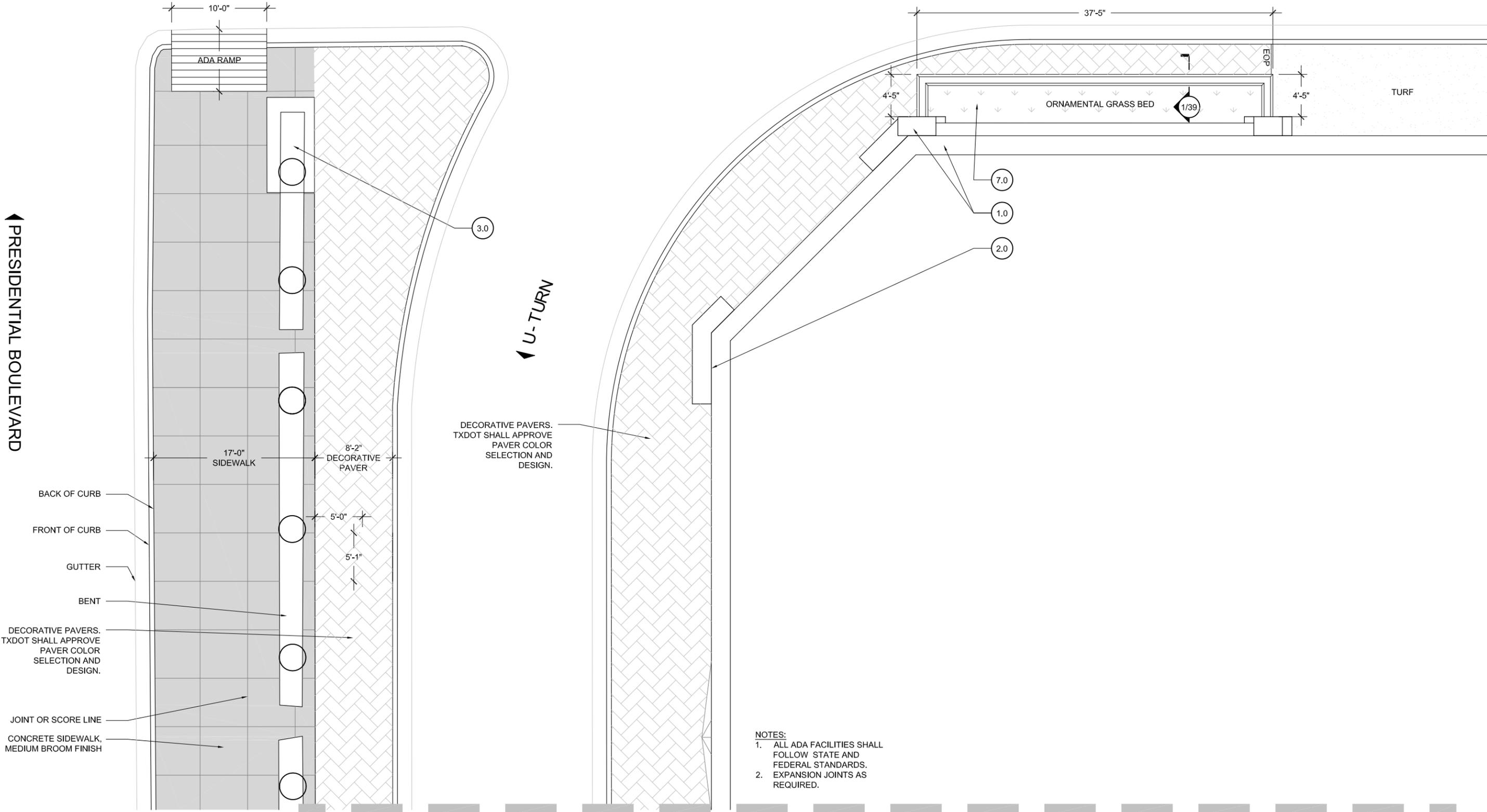
- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
| 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | 4.0 SIGN STRUCTURES - Sheets 31-32 | 6.0 PAVING/ HARDSCAPE - Sheets 37-46  | 8.0 FINISH SCHEDULE - Sheets 64-65 |

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



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PAVING/ HARDSCAPE - PRESIDENTIAL BOULEVARD



HARDSCAPE PLAN

SCALE: 1" = 10'

- 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11
- 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- 3.0 PYLONS - Sheets 25-30
- 4.0 SIGN STRUCTURES - Sheets 31-32
- 5.0 LIGHTING STANDARDS - Sheets 33-36
- 6.0 PAVING/ HARDSCAPE - Sheets 37-46
- 7.0 LANDSCAPE - Sheets 47-63
- 8.0 FINISH SCHEDULE - Sheets 64-65

MATCHLINE B - SEE SHEET 41

- NOTES:
1. ALL ADA FACILITIES SHALL FOLLOW STATE AND FEDERAL STANDARDS.
  2. EXPANSION JOINTS AS REQUIRED.

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

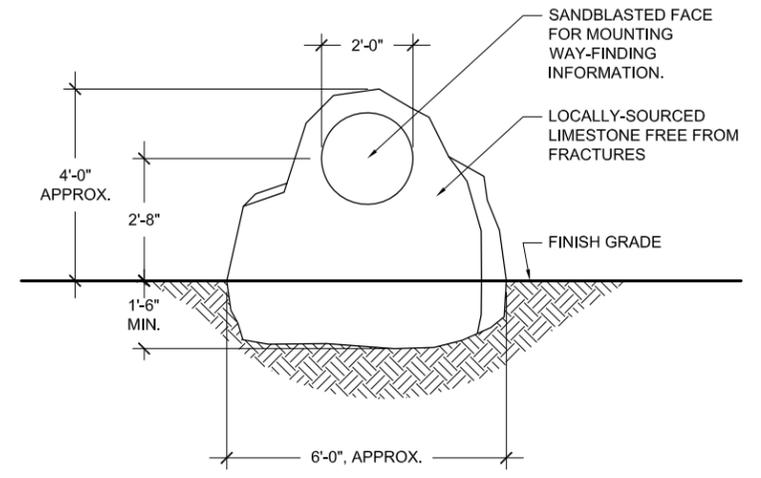
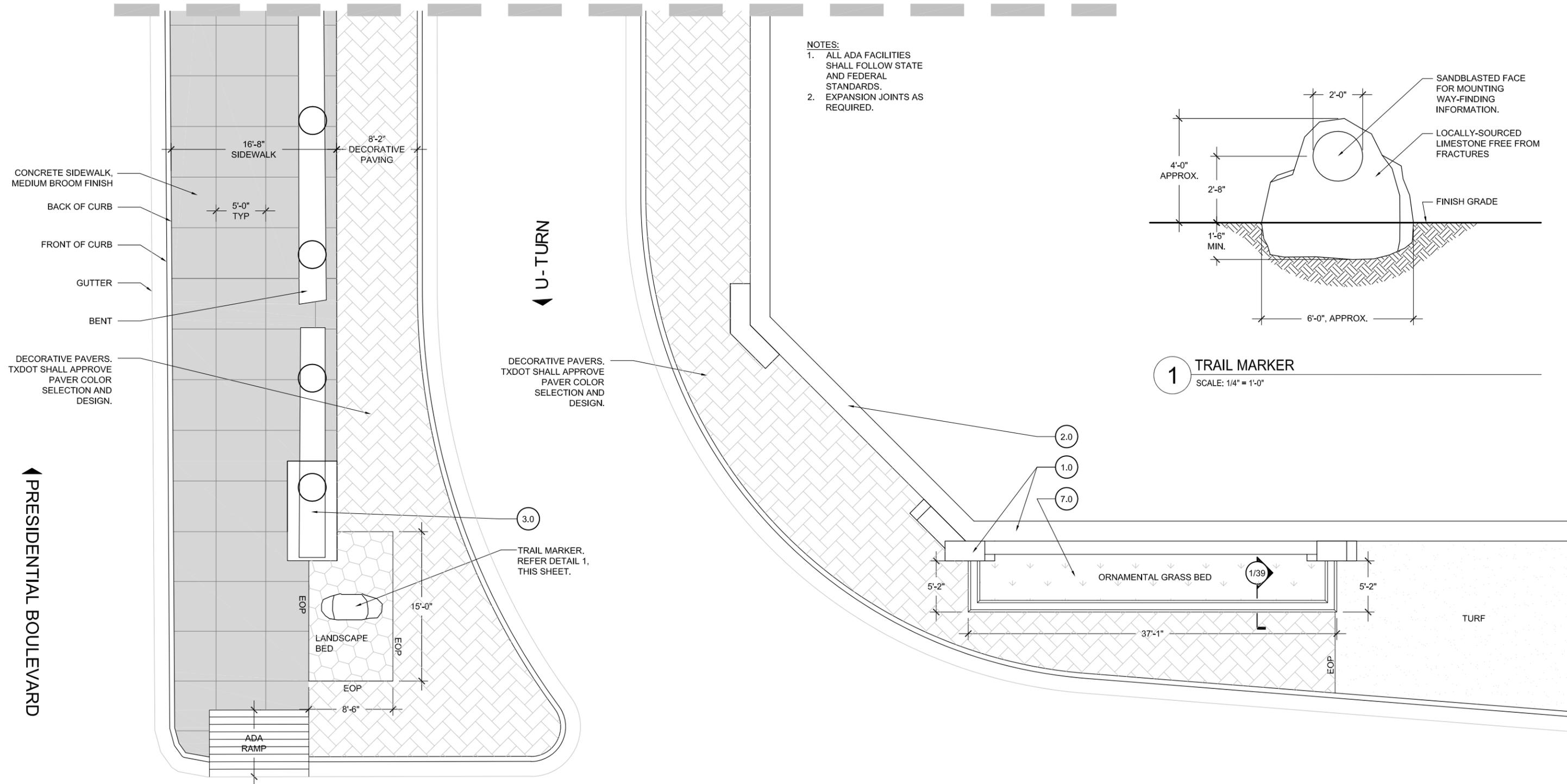


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# PAVING/ HARDSCAPE - PRESIDENTIAL BOULEVARD

MATCHLINE B - SEE SHEET 40

- NOTES:
1. ALL ADA FACILITIES SHALL FOLLOW STATE AND FEDERAL STANDARDS.
  2. EXPANSION JOINTS AS REQUIRED.



**1** TRAIL MARKER  
SCALE: 1/4" = 1'-0"

## HARDSCAPE PLAN

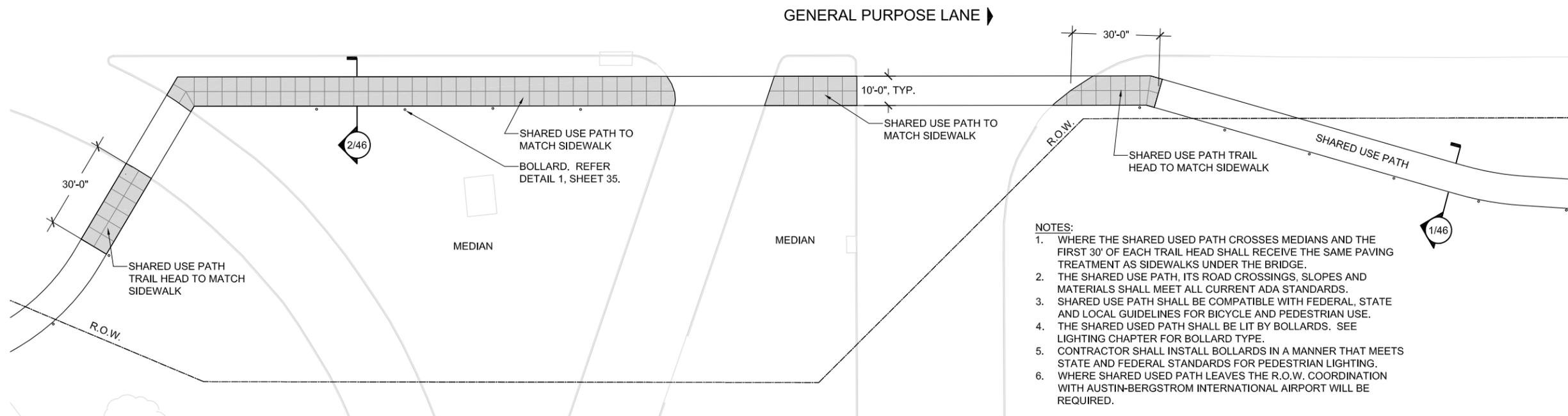
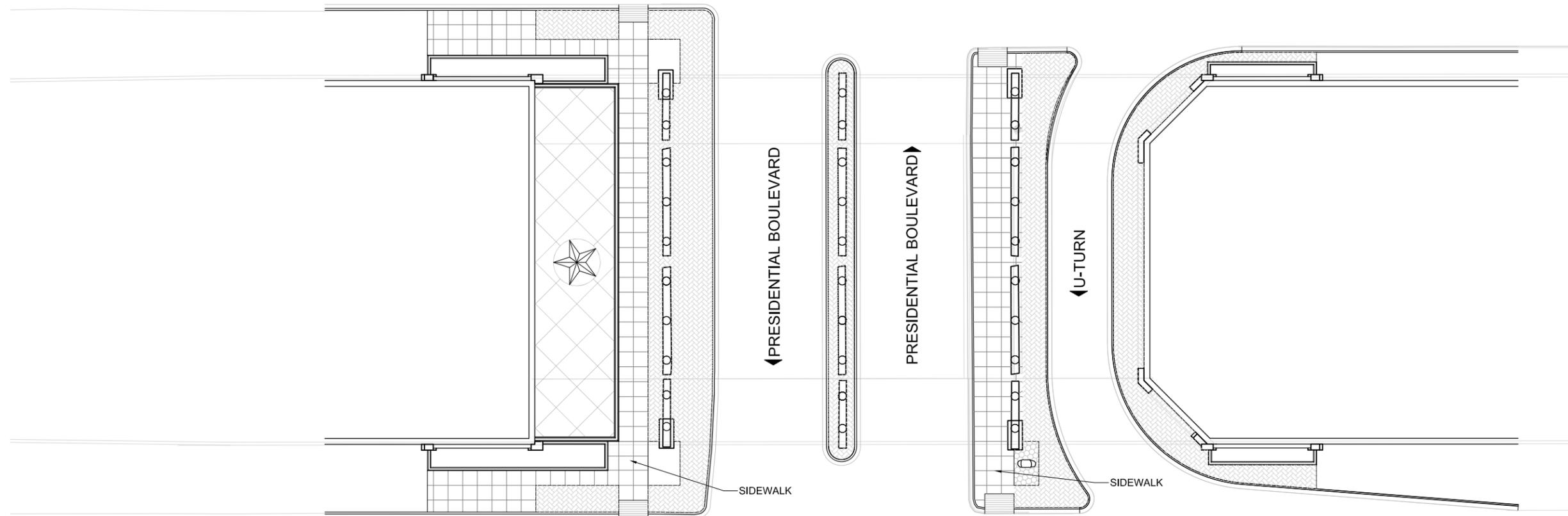
SCALE: 1" = 10'

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|---|---|--|---|
| <b>1.0</b> RETAINING WALLS & PILASTERS - Sheets 6-11      | <b>3.0</b> PYLONS - Sheets 25-30          | <b>5.0</b> LIGHTING STANDARDS - Sheets 33-36 | <b>7.0</b> LANDSCAPE - Sheets 47-63       |
| <b>2.0</b> BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24 | <b>4.0</b> SIGN STRUCTURES - Sheets 31-32 | <b>6.0</b> PAVING/ HARDSCAPE - Sheets 37-46  | <b>8.0</b> FINISH SCHEDULE - Sheets 64-65 |

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- NOTES:**
1. WHERE THE SHARED USED PATH CROSSES MEDIANS AND THE FIRST 30' OF EACH TRAIL HEAD SHALL RECEIVE THE SAME PAVING TREATMENT AS SIDEWALKS UNDER THE BRIDGE.
  2. THE SHARED USE PATH, ITS ROAD CROSSINGS, SLOPES AND MATERIALS SHALL MEET ALL CURRENT ADA STANDARDS.
  3. SHARED USE PATH SHALL BE COMPATIBLE WITH FEDERAL, STATE AND LOCAL GUIDELINES FOR BICYCLE AND PEDESTRIAN USE.
  4. THE SHARED USED PATH SHALL BE LIT BY BOLLARDS. SEE LIGHTING CHAPTER FOR BOLLARD TYPE.
  5. CONTRACTOR SHALL INSTALL BOLLARDS IN A MANNER THAT MEETS STATE AND FEDERAL STANDARDS FOR PEDESTRIAN LIGHTING.
  6. WHERE SHARED USED PATH LEAVES THE R.O.W. COORDINATION WITH AUSTIN-BERGSTROM INTERNATIONAL AIRPORT WILL BE REQUIRED.

SHARED USE PATH PLAN

SCALE: 1" = 40'

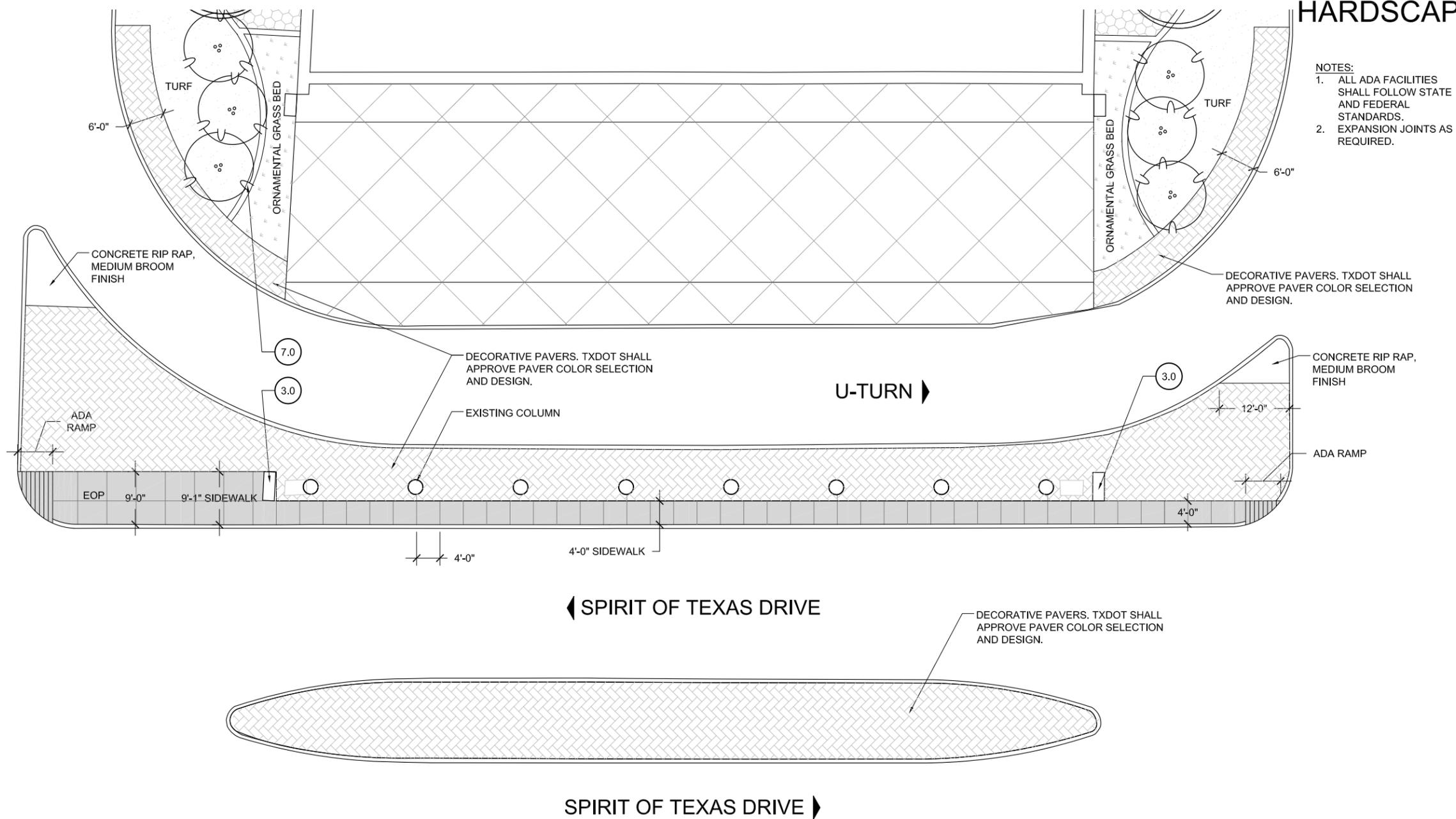
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|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
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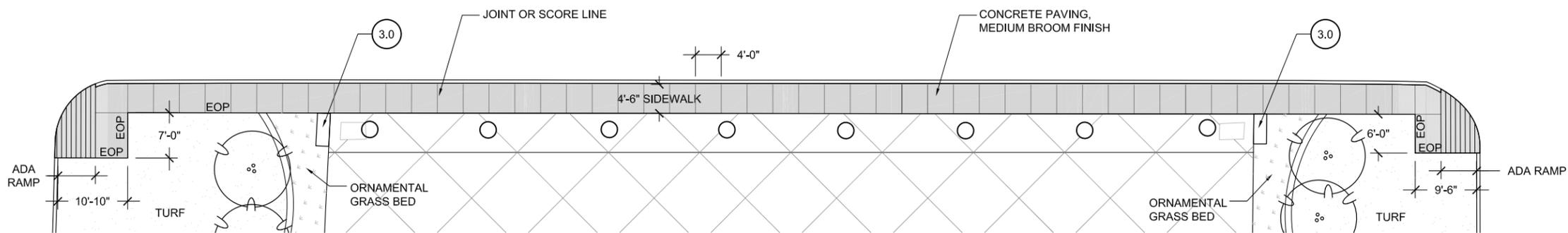
REVISION  

\* NOT INTENDED FOR PERMIT OR CONSTRUCTION. ALL MATERIALS, DETAILS, AND LOCATION OF ELEMENTS SHOWN AS PART OF THIS DOCUMENT ARE SUBJECT TO FINAL PLANS AND SPECIFICATIONS.

# HARDSCAPE - SPIRIT OF TEXAS DRIVE



- NOTES:
1. ALL ADA FACILITIES SHALL FOLLOW STATE AND FEDERAL STANDARDS.
  2. EXPANSION JOINTS AS REQUIRED.



## HARDSCAPE PLAN

SCALE: 1" = 20'

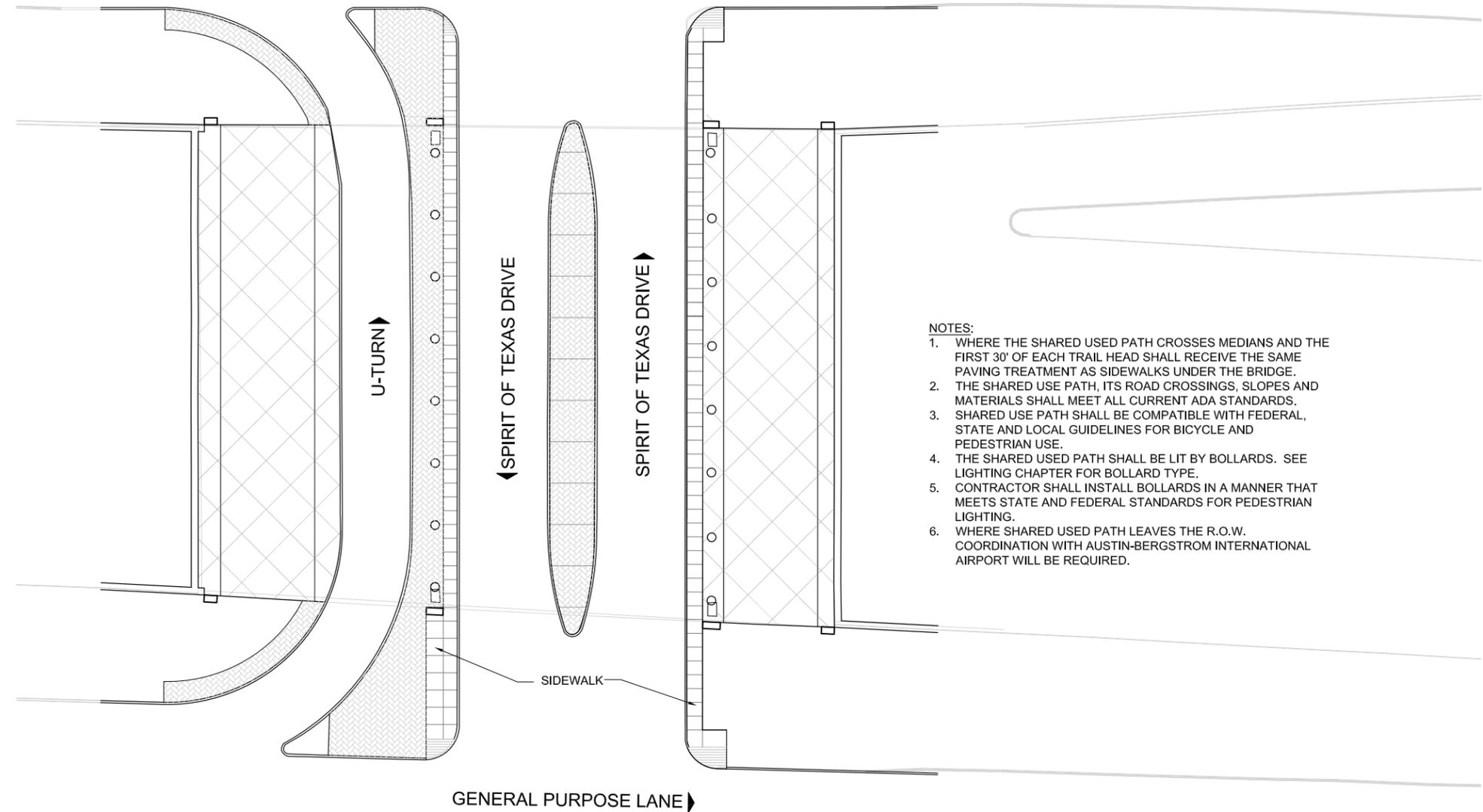
- |  |                                    |                                       |                                    |
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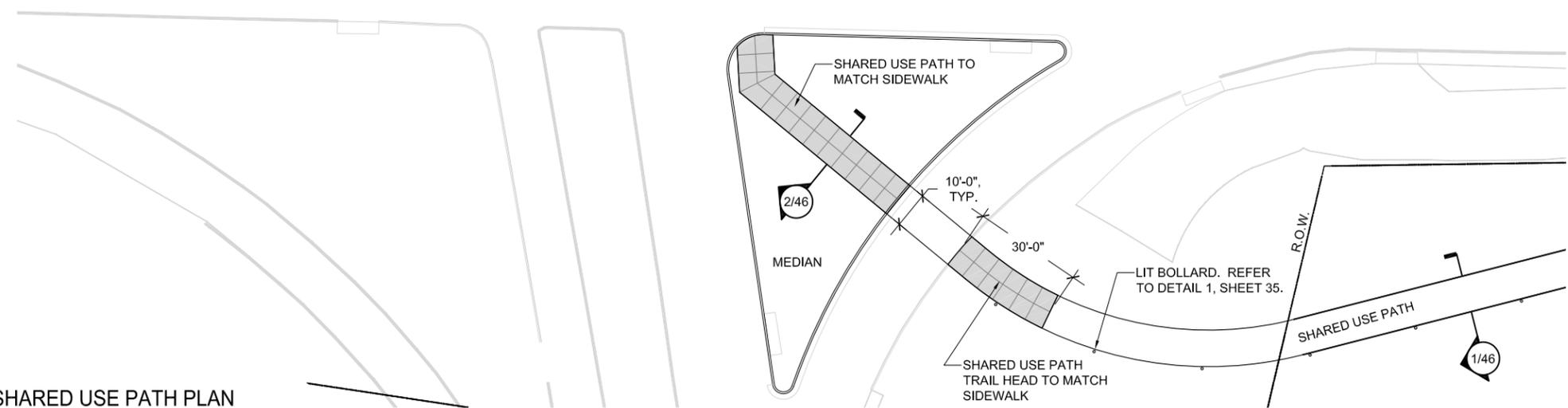
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# SHARED USE PATH - SPIRIT OF TEXAS DRIVE



**NOTES:**

1. WHERE THE SHARED USED PATH CROSSES MEDIANS AND THE FIRST 30' OF EACH TRAIL HEAD SHALL RECEIVE THE SAME PAVING TREATMENT AS SIDEWALKS UNDER THE BRIDGE.
2. THE SHARED USE PATH, ITS ROAD CROSSINGS, SLOPES AND MATERIALS SHALL MEET ALL CURRENT ADA STANDARDS.
3. SHARED USE PATH SHALL BE COMPATIBLE WITH FEDERAL, STATE AND LOCAL GUIDELINES FOR BICYCLE AND PEDESTRIAN USE.
4. THE SHARED USED PATH SHALL BE LIT BY BOLLARDS. SEE LIGHTING CHAPTER FOR BOLLARD TYPE.
5. CONTRACTOR SHALL INSTALL BOLLARDS IN A MANNER THAT MEETS STATE AND FEDERAL STANDARDS FOR PEDESTRIAN LIGHTING.
6. WHERE SHARED USED PATH LEAVES THE R.O.W. COORDINATION WITH AUSTIN-BERGSTROM INTERNATIONAL AIRPORT WILL BE REQUIRED.



SHARED USE PATH PLAN

SCALE: 1" = 40'

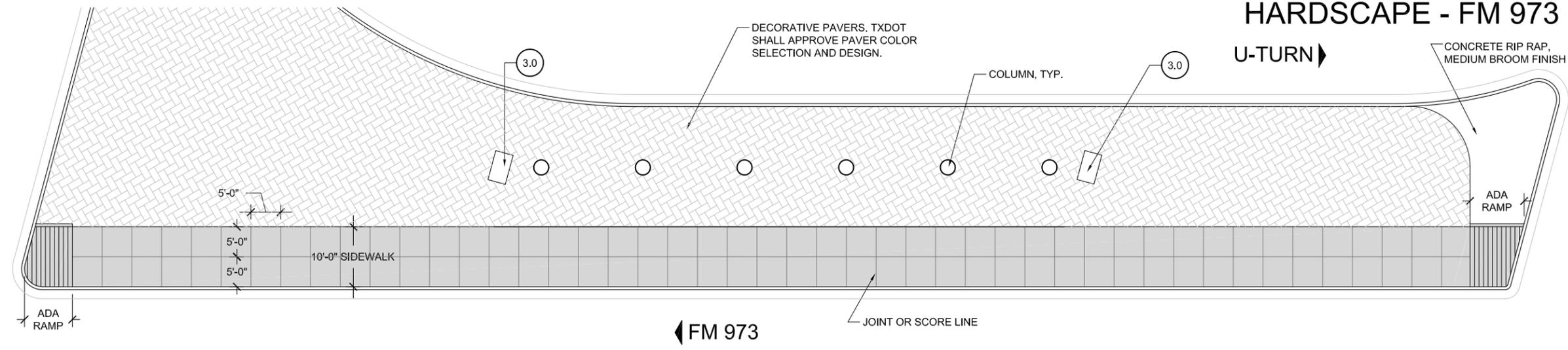
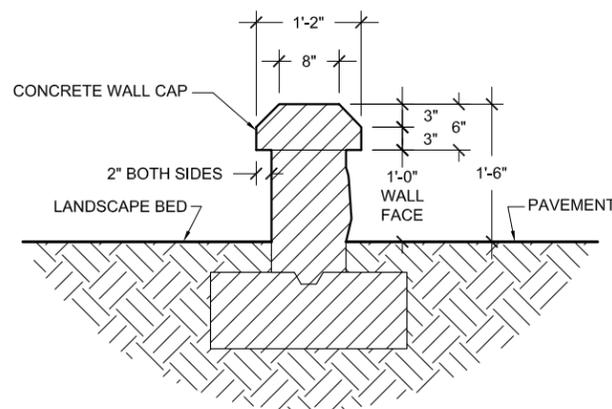
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| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
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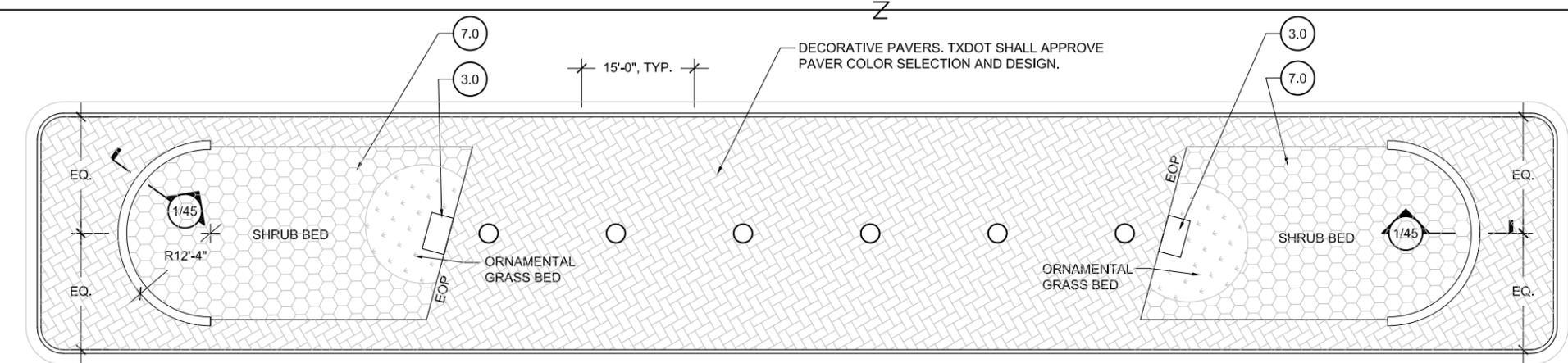
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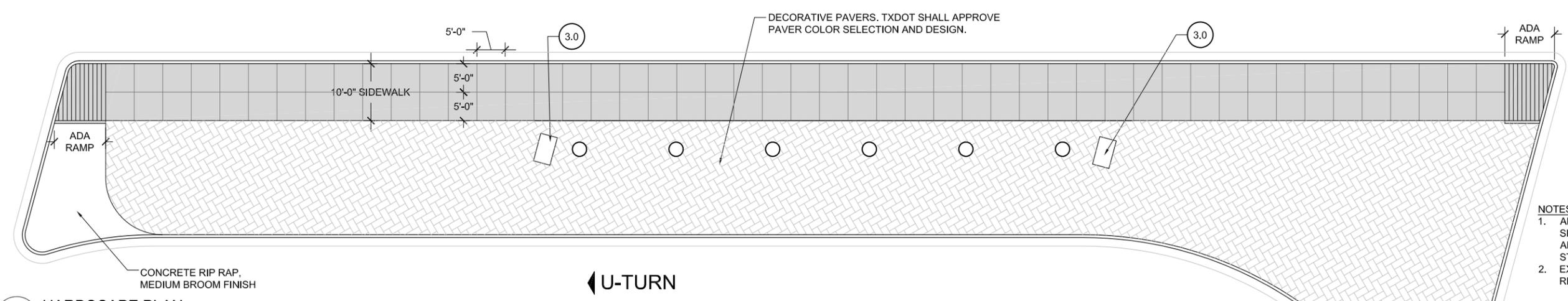
- CONSTRUCTION NOTES:**
1. FOOTING AND WALL REINFORCEMENT SUBJECT TO FINAL PLANS AND SPECIFICATIONS.
  2. CONTRACTOR SHALL PLACE WEEP HOLES IN WALL TO ALLOW FOR BED DRAINAGE.

- FINISH NOTES:**
1. CONCRETE WALL CAP- 3" CHAMFER BOTH SIDES. SMOOTH TROWEL FINISH. INSTALLATION & REINFORCEMENT PER STRUCTURAL SPECIFICATIONS. STAIN COLOR FED. STD. #26559.
  2. OUTER WALL FACE- (PAVEMENT SIDE) FORM LINER 166D CHISELED LIMESTONE WITH JOINTS (BY SCOTT SYSTEM OR APPROVED EQUAL). CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.
  3. INNER WALL FACE- (LANDSCAPE BED SIDE) SMOOTH TROWEL FINISH. STAIN COLOR FED. STD. #26559.

**1 FREE STANDING LOW WALL**  
SCALE: 1/2" = 1'-0"



FM 973



- NOTES:**
1. ALL ADA FACILITIES SHALL FOLLOW STATE AND FEDERAL STANDARDS.
  2. EXPANSION JOINTS AS REQUIRED.

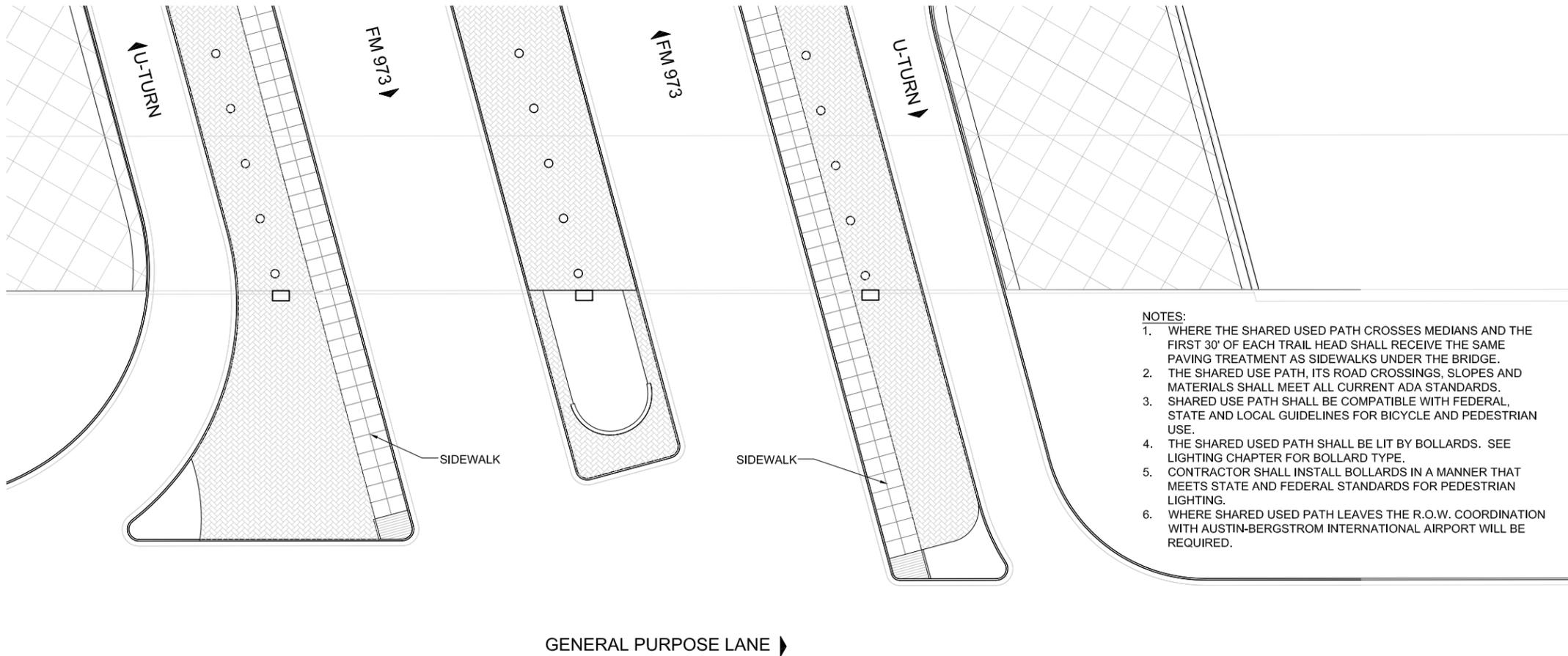
**2 HARDSCAPE PLAN**  
SCALE: 1" = 20'

- |  |                                    |                                       |                                    |
|--|------------------------------------|---------------------------------------|------------------------------------|
| 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11      | 3.0 PYLONS - Sheets 25-30          | 5.0 LIGHTING STANDARDS - Sheets 33-36 | 7.0 LANDSCAPE - Sheets 47-63       |
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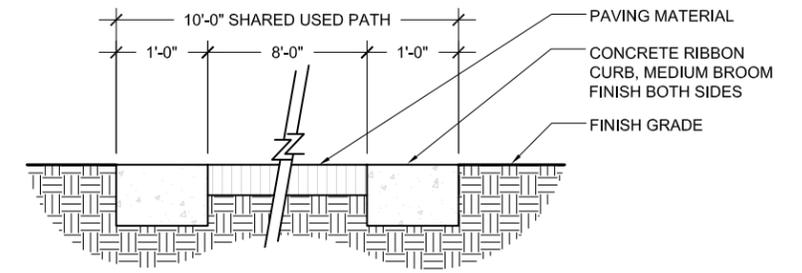
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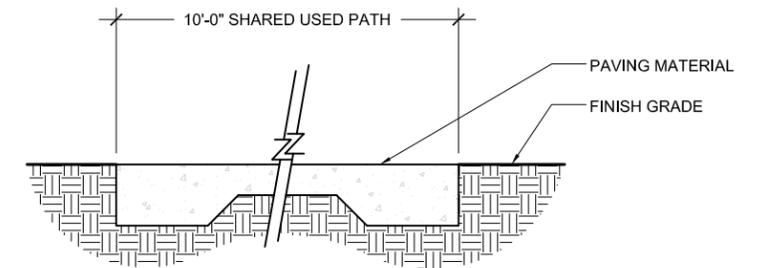
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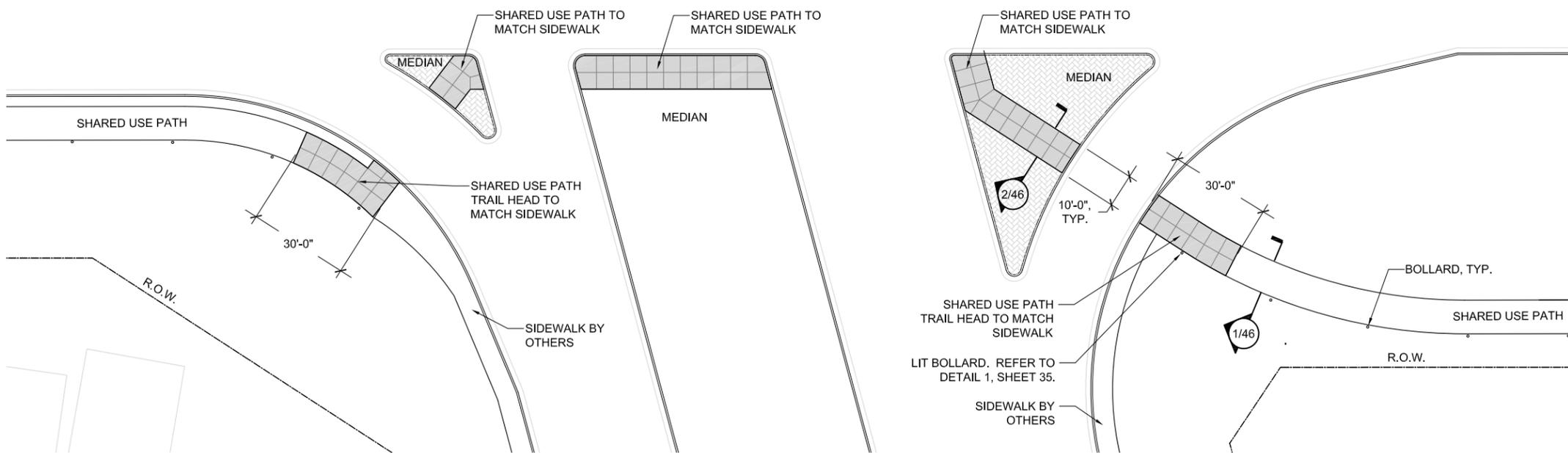
- NOTES:**
1. WHERE THE SHARED USED PATH CROSSES MEDIANS AND THE FIRST 30' OF EACH TRAIL HEAD SHALL RECEIVE THE SAME PAVING TREATMENT AS SIDEWALKS UNDER THE BRIDGE.
  2. THE SHARED USE PATH, ITS ROAD CROSSINGS, SLOPES AND MATERIALS SHALL MEET ALL CURRENT ADA STANDARDS.
  3. SHARED USE PATH SHALL BE COMPATIBLE WITH FEDERAL, STATE AND LOCAL GUIDELINES FOR BICYCLE AND PEDESTRIAN USE.
  4. THE SHARED USED PATH SHALL BE LIT BY BOLLARDS. SEE LIGHTING CHAPTER FOR BOLLARD TYPE.
  5. CONTRACTOR SHALL INSTALL BOLLARDS IN A MANNER THAT MEETS STATE AND FEDERAL STANDARDS FOR PEDESTRIAN LIGHTING.
  6. WHERE SHARED USED PATH LEAVES THE R.O.W. COORDINATION WITH AUSTIN-BERGSTROM INTERNATIONAL AIRPORT WILL BE REQUIRED.



**1 SHARED USE PATH SECTION**  
SCALE: 1/2" = 1'-0"



**2 SHARED USE PATH AT TRAIL HEAD SECTION**  
SCALE: 1/2" = 1'-0"



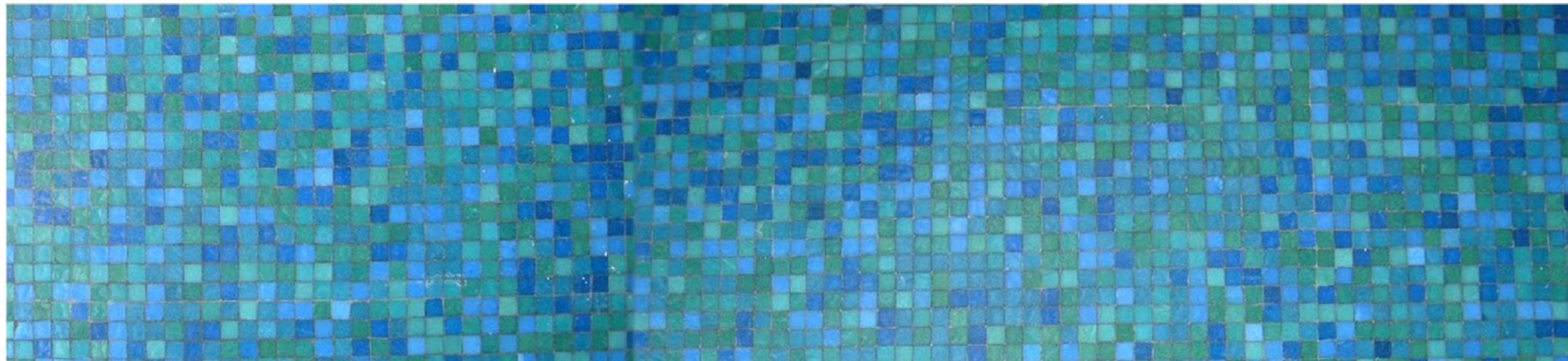
**SHARED USE PATH PLAN**  
SCALE: 1" = 40'

- 1.0 RETAINING WALLS & PILASTERS - Sheets 6-11
- 3.0 PYLONS - Sheets 25-30
- 5.0 LIGHTING STANDARDS - Sheets 33-36
- 7.0 LANDSCAPE - Sheets 47-63
- 2.0 BRIDGE ABUTMENT WALLS & RIP RAP - Sheets 12-24
- 4.0 SIGN STRUCTURES - Sheets 31-32
- 6.0 PAVING/ HARDSCAPE - Sheets 37-46
- 8.0 FINISH SCHEDULE - Sheets 64-65

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



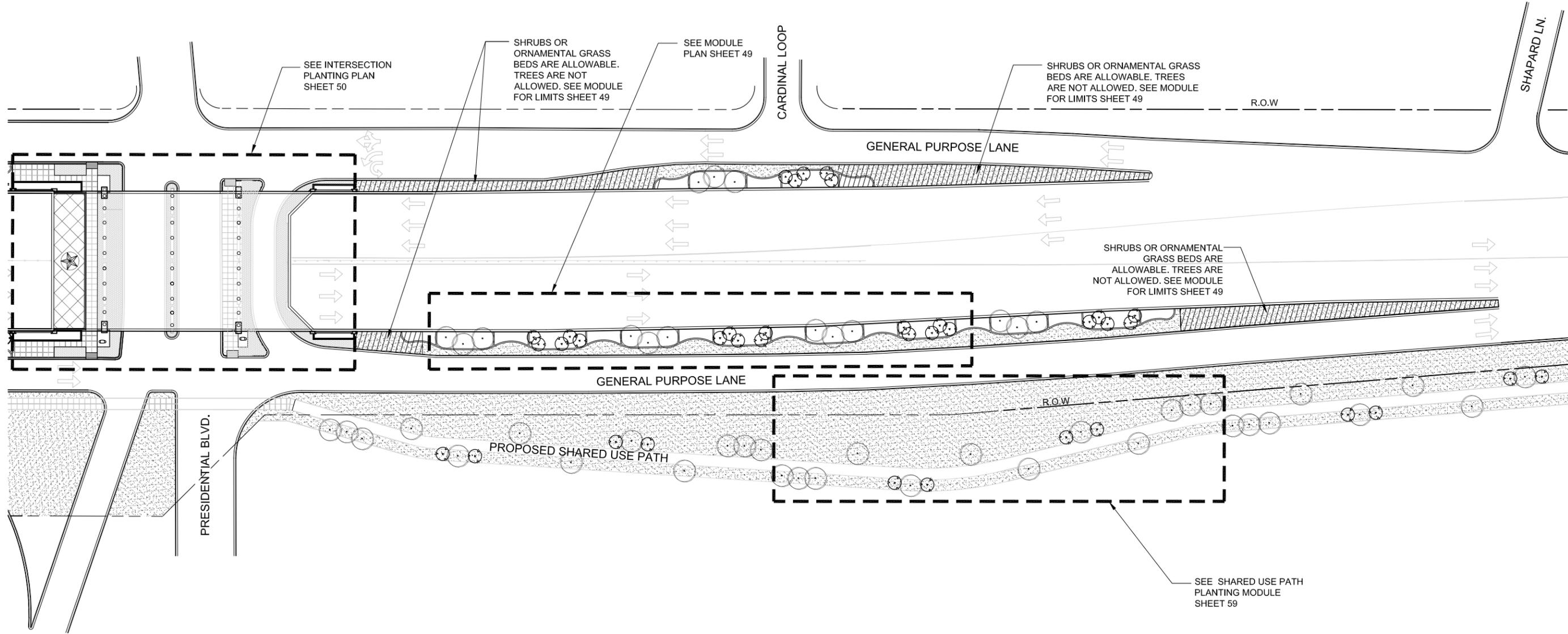
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7.0 LANDSCAPE

# LANDSCAPE LAYOUT PLAN - PRESIDENTIAL BOULEVARD

- NOTES:**
1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
  2. THE CONTRACTOR IS RESPONSIBLE FOR MODIFYING LANDSCAPE AND HARDSCAPE TREATMENTS WHERE UTILITIES WILL REMAIN.
  3. NO TREES WHERE DISTANCES BETWEEN BACK OF CURB AND RETAINING WALLS ARE LESS THAN 20'-0". IF THERE IS NO CURB, MEASURE FROM EDGE OF PAVEMENT.
  4. ALL TREES ASSOCIATED WITH THE SHARED USE PATH SHALL BE LOCATED MINIMUM 30'-0" FROM BACK OF CURB.
  5. CONTRACTOR IS RESPONSIBLE FOR LOCATING SLOPES THAT REQUIRE EROSION CONTROL SEEDING.



**LANDSCAPE PLAN**  
SCALE: NOT TO SCALE

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

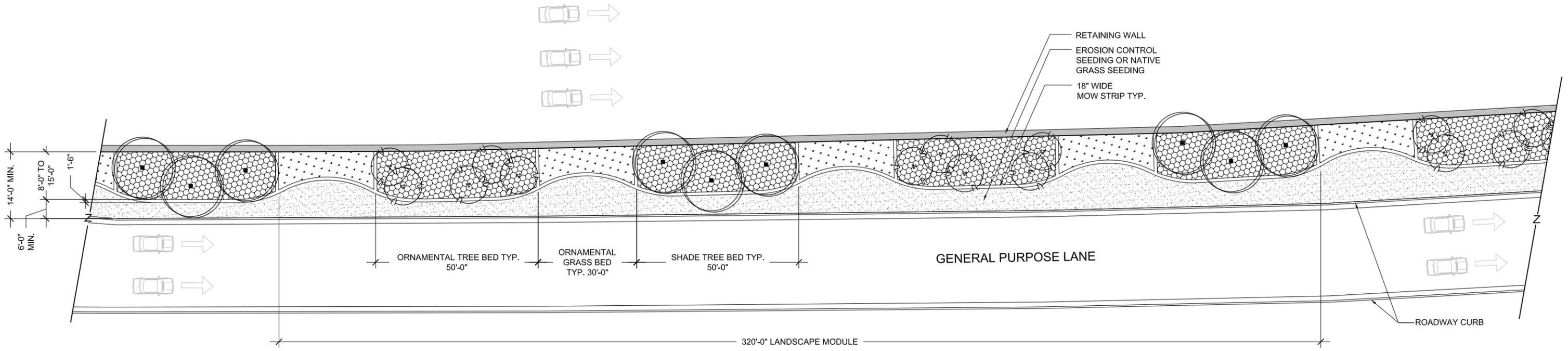


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# 320'-0" MODULE PLAN - PRESIDENTIAL BOULEVARD



## ROADWAY MODULE PLANTING PLAN

SCALE: 1" = 30'-0"

- NOTES:**
1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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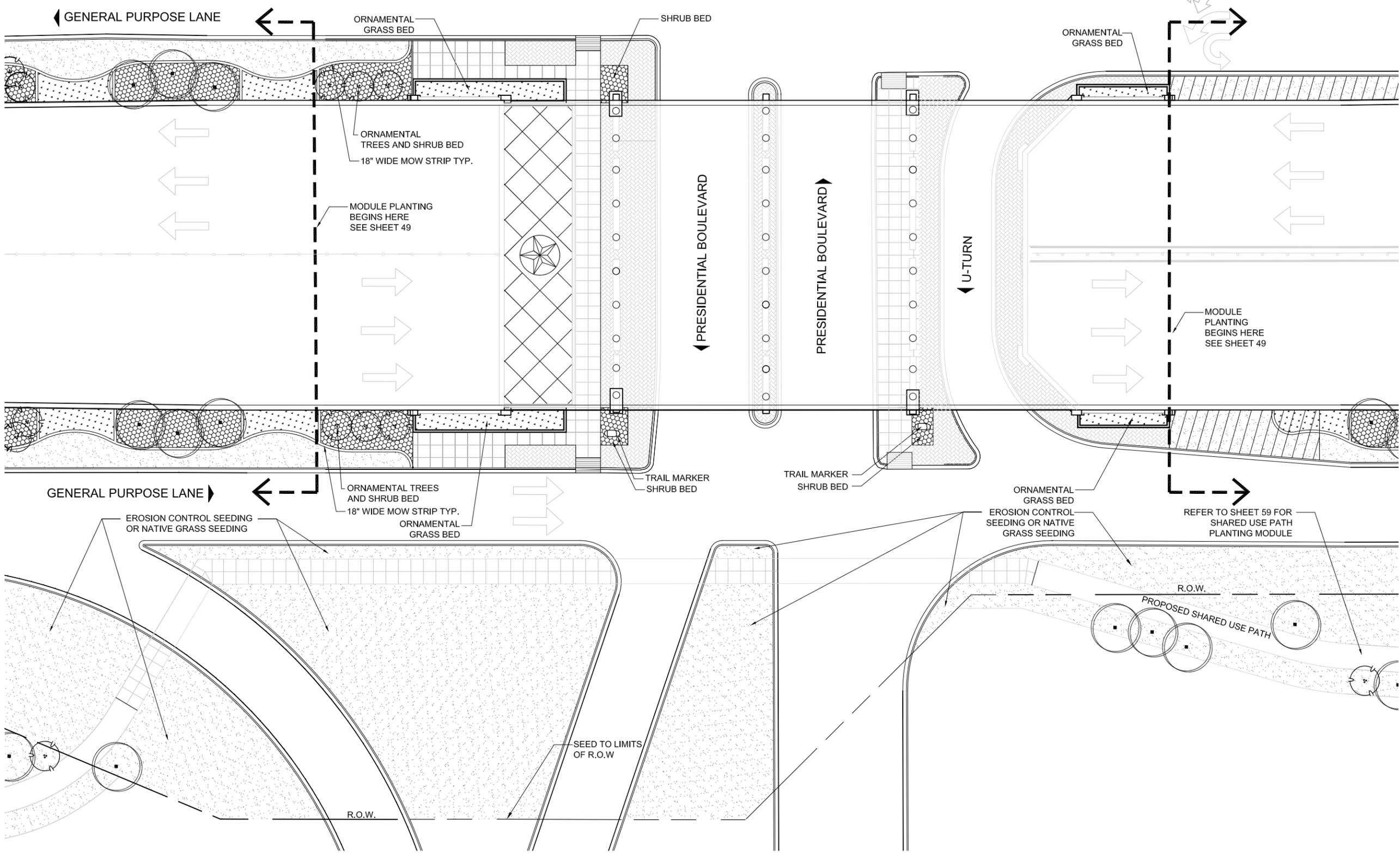


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# INTERSECTION PLANTING PLAN - PRESIDENTIAL BOULEVARD

- NOTES:**
1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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  4. ALL TREES ASSOCIATED WITH THE SHARED USE PATH SHALL BE LOCATED MINIMUM 30'-0" FROM BACK OF CURB.
  5. CONTRACTOR IS RESPONSIBLE FOR LOCATING SLOPES THAT REQUIRE EROSION CONTROL SEEDING.



**INTERSECTION PLANTING PLAN**  
SCALE: 1" = 40'-0"

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

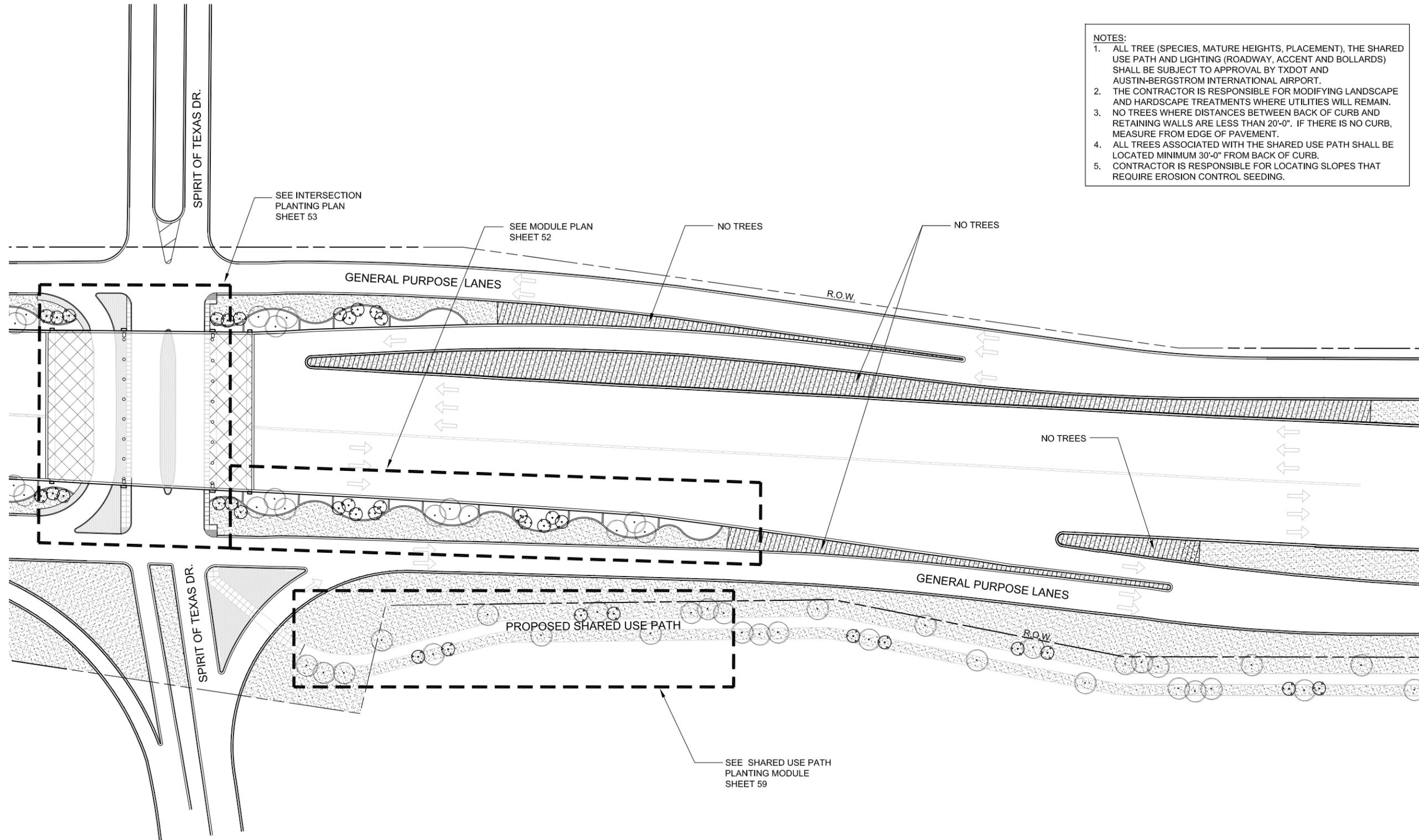


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# LANDSCAPE LAYOUT PLAN - SPIRIT OF TEXAS DRIVE

- NOTES:
1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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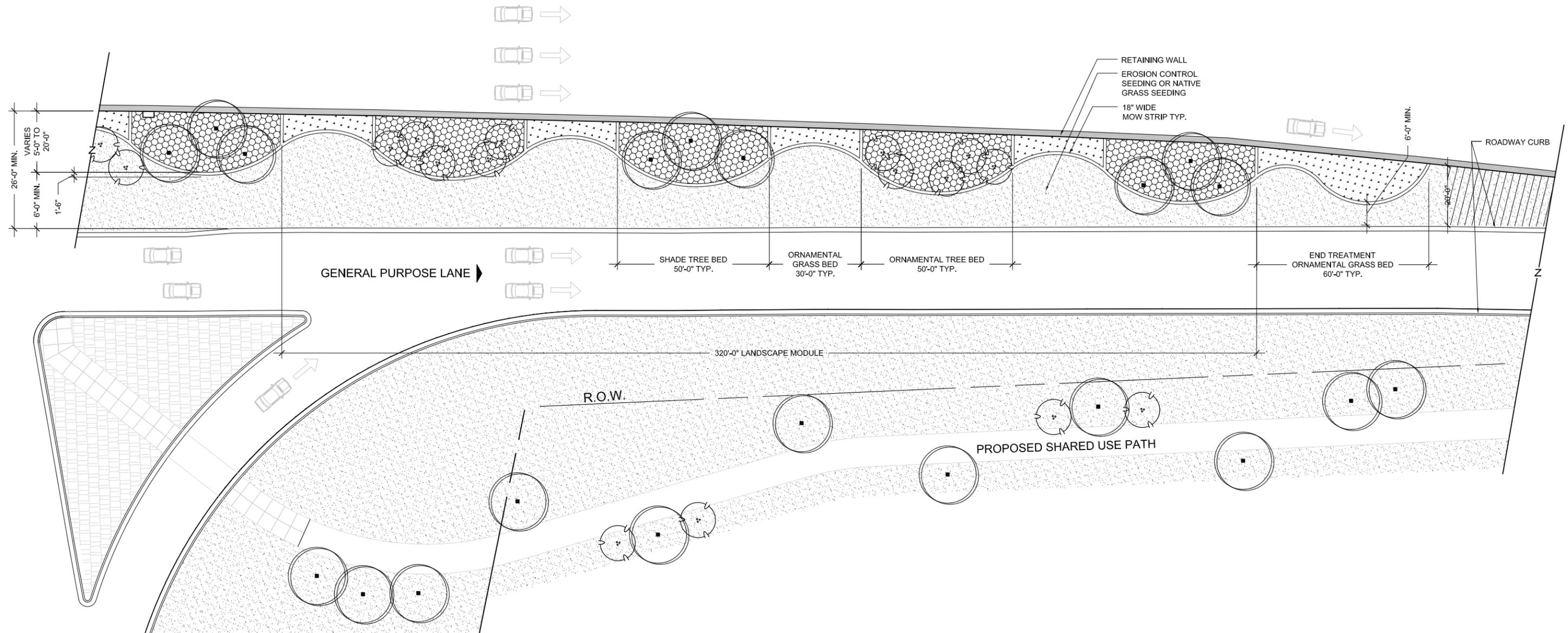


LANDSCAPE PLAN  
SCALE: NOT TO SCALE

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



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ROADWAY MODULE PLANTING PLAN

SCALE: 1" = 30'-0"

NOTES:

1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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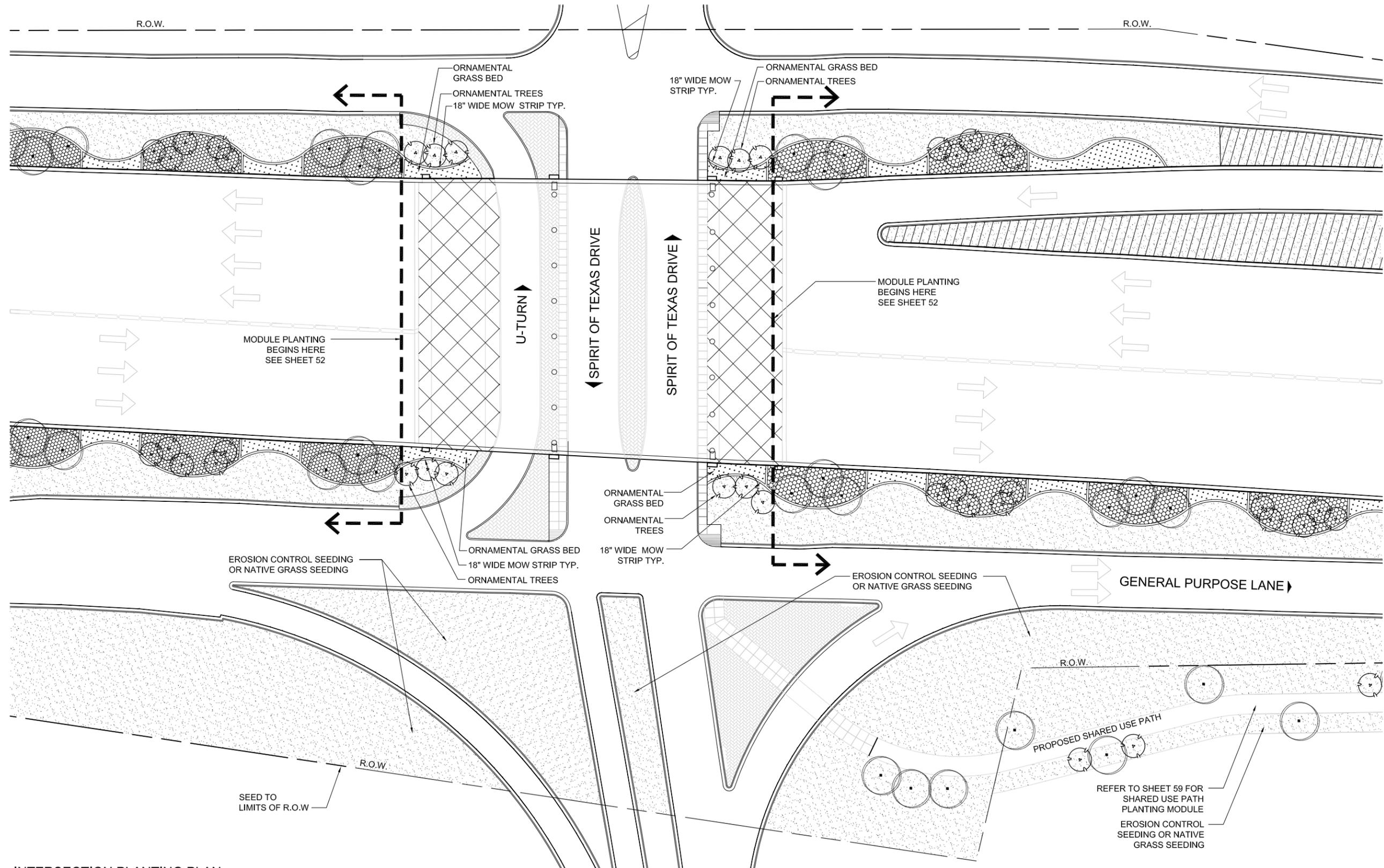


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# INTERSECTION PLANTING PLAN - SPIRIT OF TEXAS DRIVE

- NOTES:**
1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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  4. ALL TREES ASSOCIATED WITH THE SHARED USE PATH SHALL BE LOCATED MINIMUM 30'-0" FROM BACK OF CURB.
  5. CONTRACTOR IS RESPONSIBLE FOR LOCATING SLOPES THAT REQUIRE EROSION CONTROL SEEDING.



## INTERSECTION PLANTING PLAN

SCALE: 1" = 50'-0"

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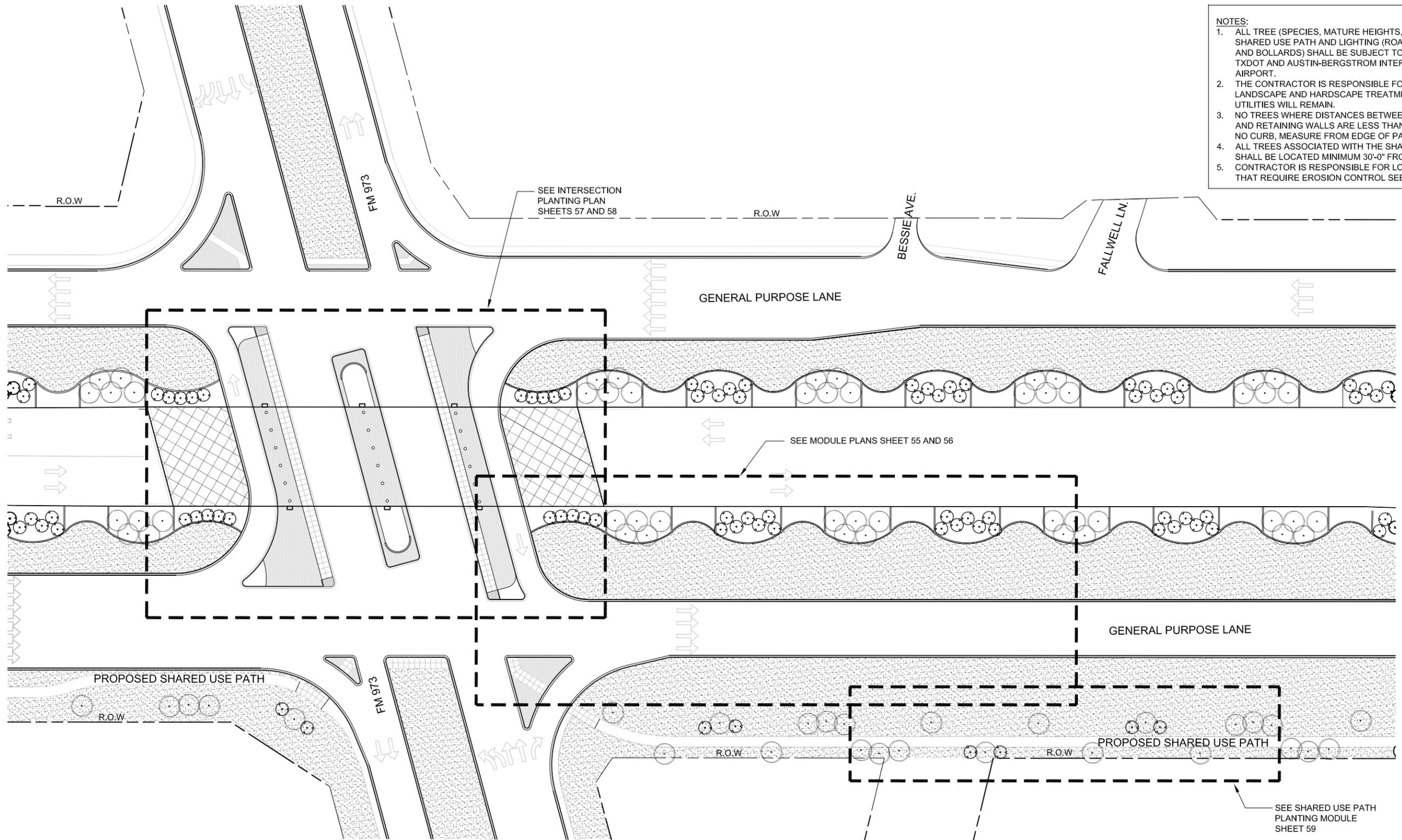


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- NOTES:
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LANDSCAPE PLAN  
SCALE: NOT TO SCALE

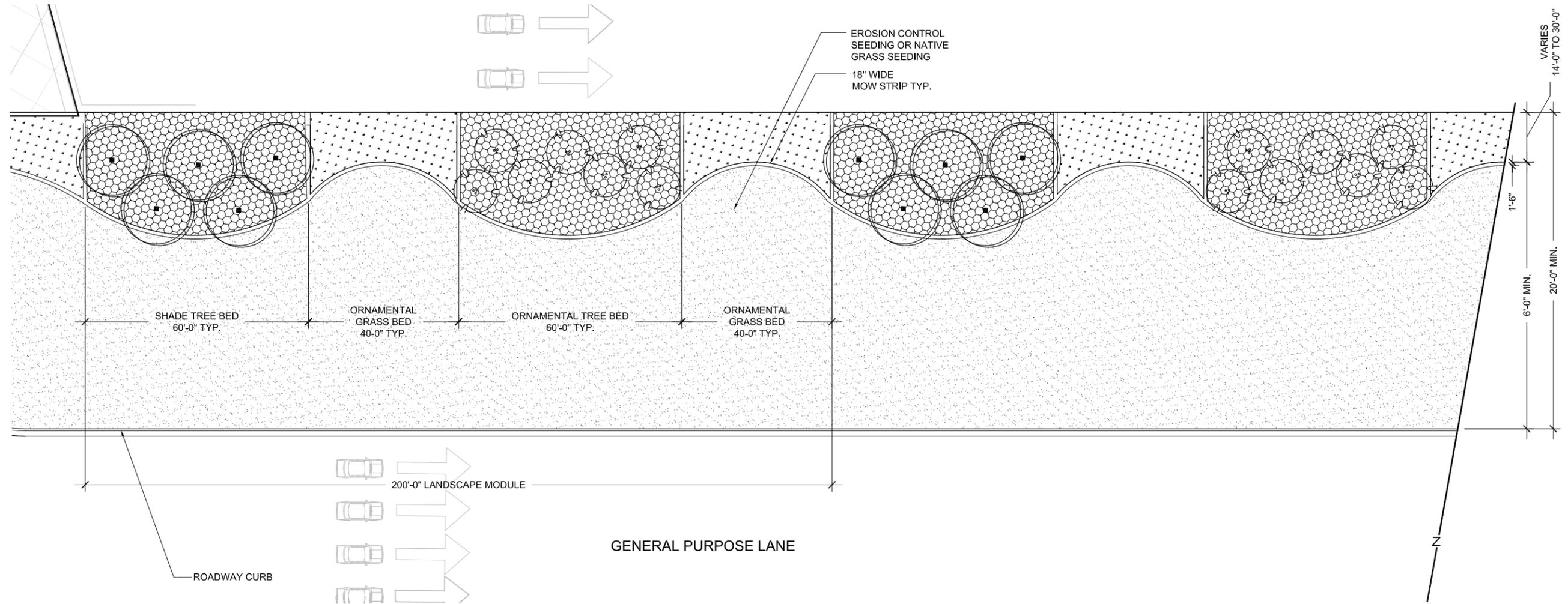
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ROADWAY MODULE PLANTING PLAN - WITHOUT RETAINING WALLS

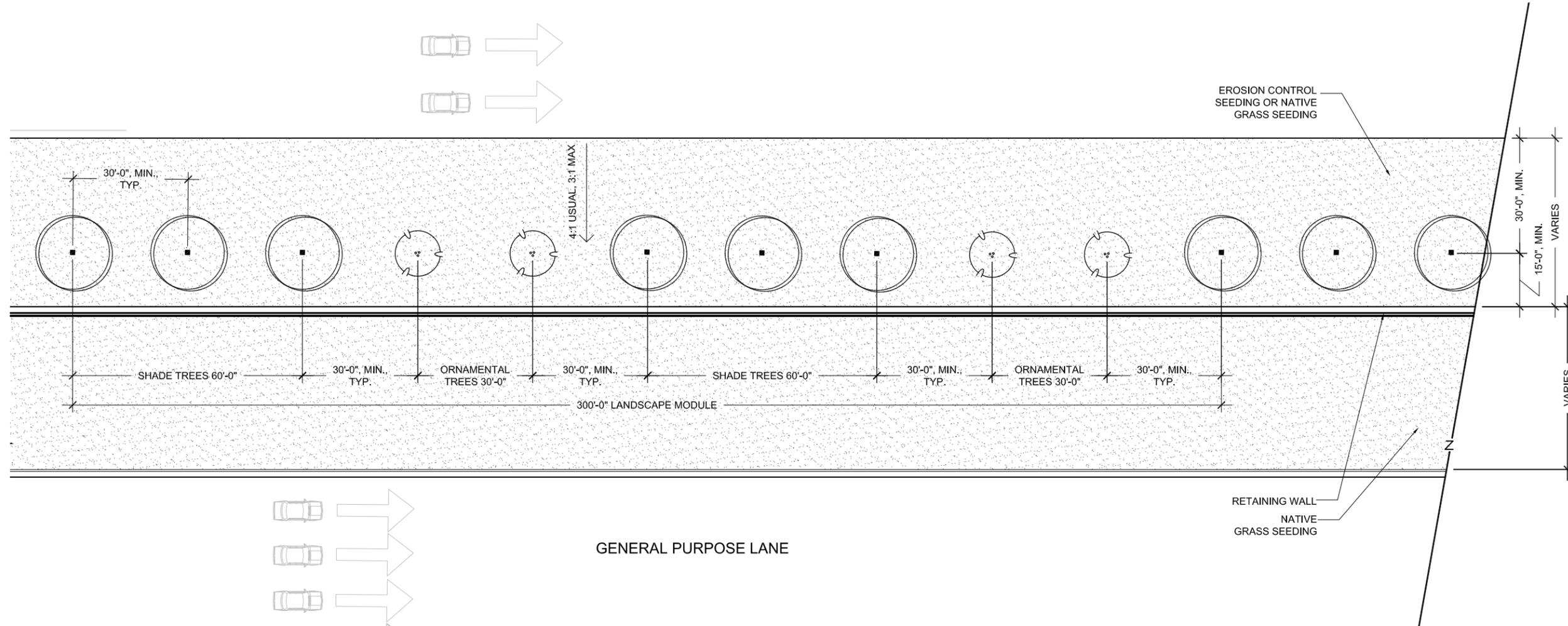
SCALE: 1" = 30'-0"

- NOTES:
1. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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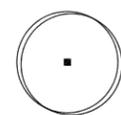
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ROADWAY MODULE PLANTING PLAN - WITH RETAINING WALLS

SCALE: 1" = 30'-0"

FM 973 (WITH RETAINING WALLS) ROADWAY MODULE PLANT KEY AND REQUIREMENTS



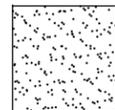
SHADE TREES

QTY: 6 PER MODULE LENGTH OF LANDSCAPE  
SPACING: 40'-0"  
SEE SECTION, SHEET 61 FOR SPECIES OPTIONS  
(MIN. 2 SPECIES PER MODULE)



ORNAMENTAL TREES

QTY: 6 PER MODULE LENGTH OF LANDSCAPE  
SPACING: 20'-0"  
SEE SECTION, SHEET 61 FOR SPECIES OPTIONS  
(MIN. 2 SPECIES PER MODULE)



SEEDED NATIVE GRASS AREAS

SQUARE FOOTAGE OF SEED PER MODULE OF LANDSCAPE WILL VARY  
(CALICHE MIX)  
SEE SECTION, SHEET 61 FOR SEED MIX INFORMATION

EROSION CONTROL SEEDING (APPLIED TO SLOPES GREATER THAN 6:1)

DONE IN ACCORDANCE WITH 2004 TEXAS STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES- ITEM 164 WITH THE ADDITION OF WILDFLOWER SEED MIX AS SHOWN IN TXDOT'S "BLACKLAND PRAIRIE REGION" SEED LIST (FOUND ON TXDOT'S WEBSITE)- [http://www.dot.state.tx.us/mnt/wildflower/Seed\\_List\\_htm/blackland.htm](http://www.dot.state.tx.us/mnt/wildflower/Seed_List_htm/blackland.htm)

SITE CONDITIONS:

1. TREES, SHRUBS AND ORNAMENTAL GRASSES SHALL NOT BE LOCATED IN DITCHES, SWALES OR ON SLOPES GREATER THAN 4:1.
2. NO GRASS SHALL BE LOCATED ON SLOPES GREATER THAN 2:1. SLOPES GREATER THAN 2:1 SHALL RECEIVE PAVED RIP RAP.
3. IF ANY TREES ARE LOCATED CLOSER THAN 15'-0" TO ANOTHER TREE OR STRUCTURE, THE CONTRACTOR SHALL PLACE THAT TREE(S) IN A MULCH BED. THE MULCH BED SHALL BE CONTAINED BY AN 18" WIDE MOW CURB.
4. CONTRACTOR SHALL COORDINATE PLANT SPECIES AND PLACEMENT WITH AUSTIN-BERSTROM INTERNATIONAL AIRPORT.

NOTES:

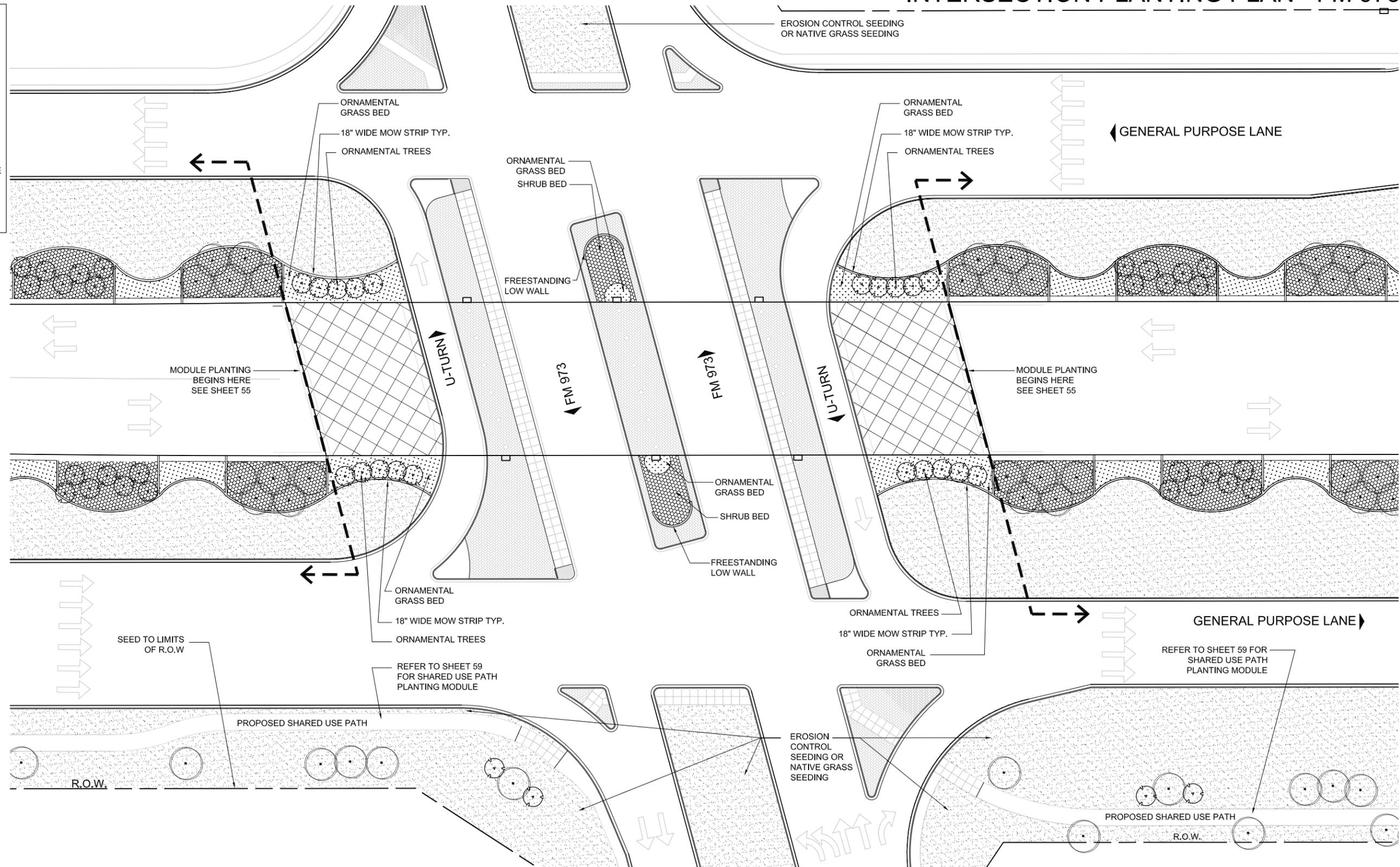
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INTERSECTION PLANTING PLAN - WITHOUT RETAINING WALLS

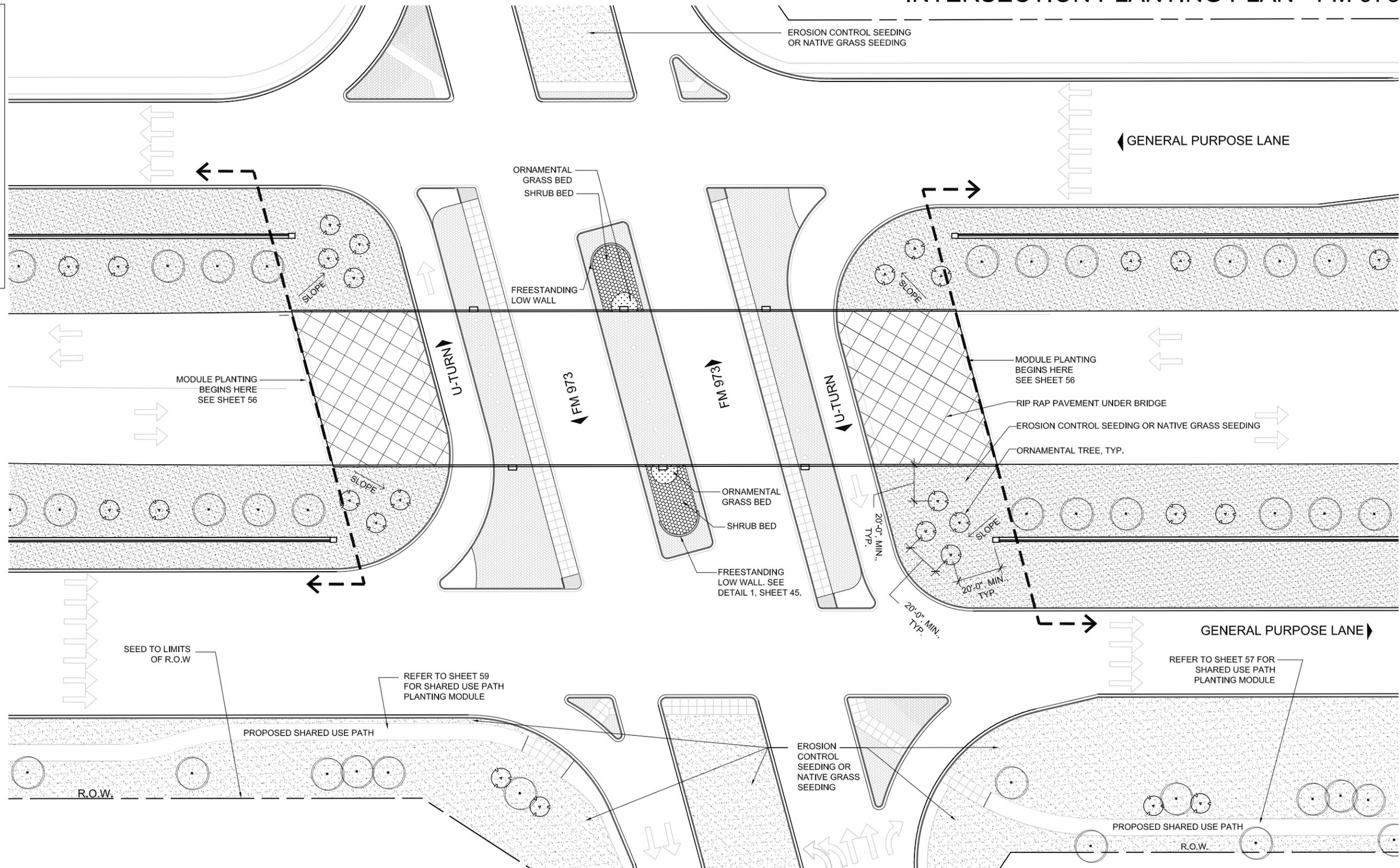
SCALE: 1" = 60'-0"

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- NOTES:**
1. THE RETAINING WALLS SHOWN IN THIS PLAN ARE CONCEPTUAL IN NATURE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND IDENTIFYING THE NEED FOR RETAINING WALLS IN THIS INTERSECTION.
  2. ALL TREE (SPECIES, MATURE HEIGHTS, PLACEMENT), THE SHARED USE PATH AND LIGHTING (ROADWAY, ACCENT AND BOLLARDS) SHALL BE SUBJECT TO APPROVAL BY TXDOT AND AUSTIN-BERGSTROM INTERNATIONAL AIRPORT.
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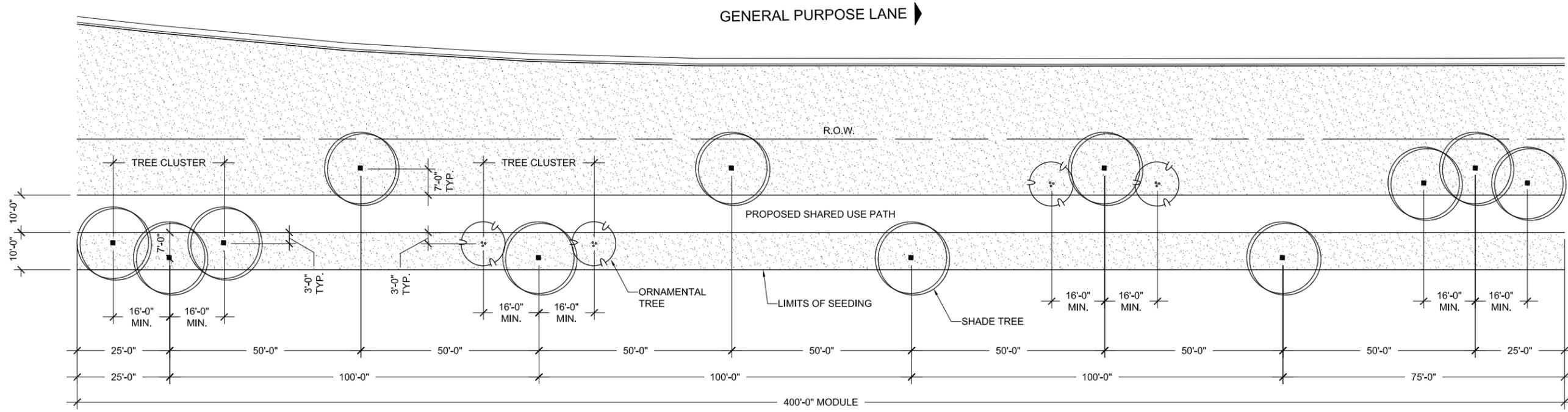
INTERSECTION PLANTING PLAN - WITH RETAINING WALLS

SCALE: 1" = 60'-0"

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SHARED USE PATH MODULE PLANTING PLAN

SCALE: 1" = 30'-0"

SHARED USE PATH MODULE PLANT KEY AND REQUIREMENTS

**SHADE TREES**  
 QTY: 12 PER MODULE LENGTH OF LANDSCAPE  
 TREE CLUSTER SPACING: 16'-0" MIN., 20'-0" MAX.  
 REFER TO SHEET 61 FOR SPECIES OPTIONS  
 (MIN. 2 SPECIES PER MODULE)

**ORNAMENTAL TREES**  
 QTY: 4 PER MODULE LENGTH OF LANDSCAPE  
 TREE CLUSTER SPACING: 16'-0" MIN., 20'-0" MAX.  
 REFER TO SHEET 61 FOR SPECIES OPTIONS  
 (1 SPECIES PER MODULE)

**SEEDED NATIVE GRASS AREAS**  
 SQUARE FOOTAGE OF SEED PER  
 MODULE OF LANDSCAPE WILL VARY  
 (CALICHE MIX)  
 REFER TO SHEET 61 FOR SEED MIX  
 INFORMATION

**EROSION CONTROL SEEDING (APPLIED TO SLOPES GREATER THAN 6:1)**  
 DONE IN ACCORDANCE WITH 2004 TEXAS STANDARD  
 SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE  
 OF HIGHWAYS, STREETS, AND BRIDGES- ITEM 164 WITH  
 THE ADDITION OF WILDFLOWER SEED MIX AS SHOWN IN  
 TXDOT'S "BLACKLAND PRAIRIE REGION" SEED LIST (FOUND  
 ON TXDOT'S WEBSITE)-  
[http://www.dot.state.tx.us/mnt/wildflower/Seed\\_List\\_htm/blackland.htm](http://www.dot.state.tx.us/mnt/wildflower/Seed_List_htm/blackland.htm)

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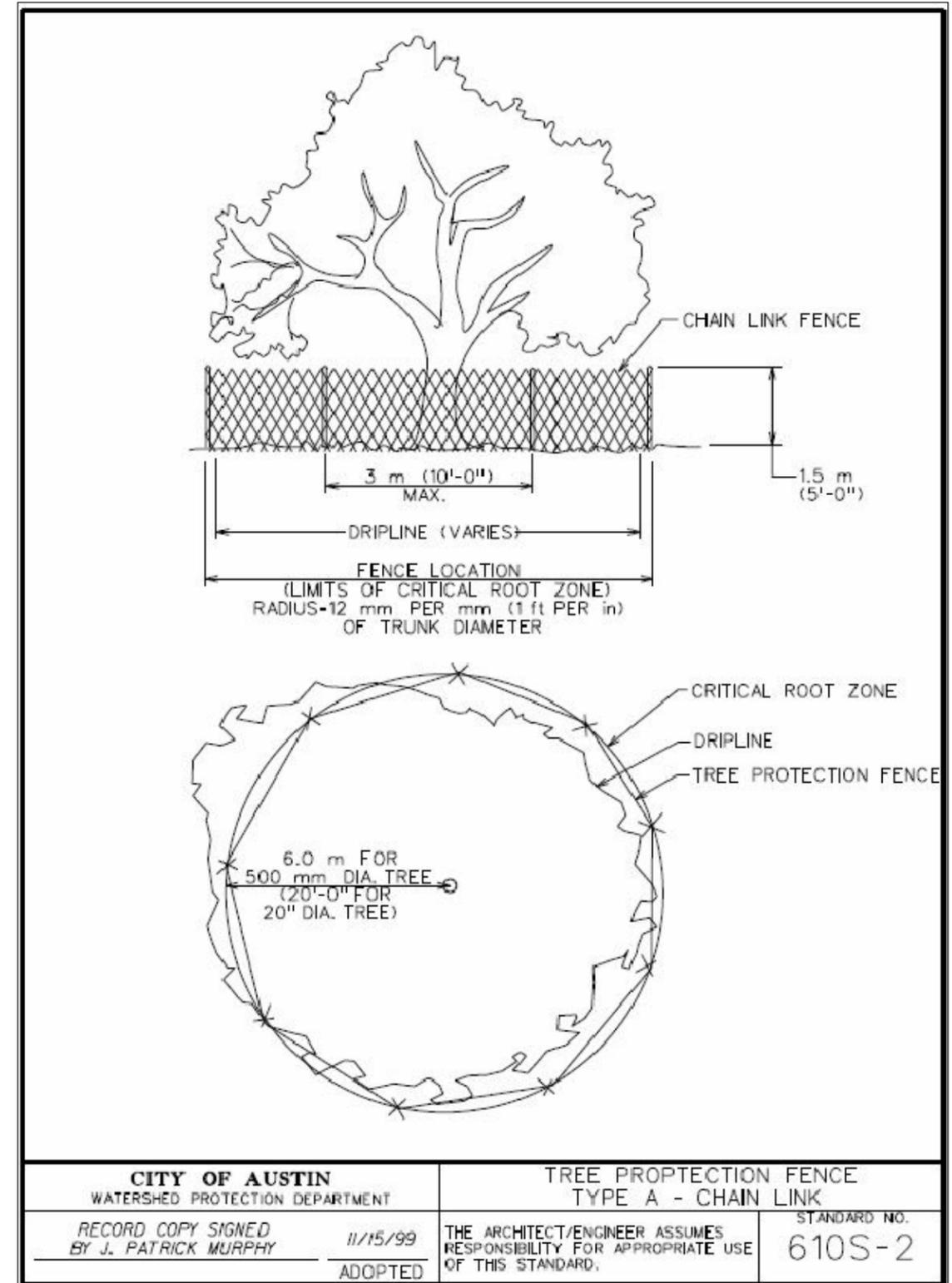
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**TREE PROTECTION:**

- A. IF A TREE/TREES IN THE R.O.W. IS/ARE DETERMINED TO BE PROTECTED, THE CONTRACTOR SHOULD FOLLOW THE CURRENT CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION BELOW.
- B. IF A TREE/TREES ON AUSTIN-BERGSTROM INTERNATIONAL AIRPORT PROPERTY IS/ARE DETERMINED TO BE PROTECTED, THE CONTRACTOR SHALL FOLLOW THE CURRENT CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION.
- C. THE CONTRACTOR SHALL COORDINATE TREE REMOVAL AND PROTECTION WITH TXDOT AND AUSTIN- BERGSTROM INTERNATIONAL AIRPORT.

**CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION :**

1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. PROTECTIVE FENCES SHALL BE ERECTED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.
3. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIP LINES.
5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE) , FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
  - A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
  - B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ARBORIST;
  - C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
  - D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
6. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
  - A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED;
  - B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZED ROOT DAMAGE);
  - C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;
  - D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST AT (512) 974-1876 TO DISCUSS ALTERNATIVES.



**CHAIN LINK TREE PROTECTION FENCE**

SCALE: NOT TO SCALE

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.



\* NOT INTENDED FOR PERMIT OR CONSTRUCTION. ALL MATERIALS, DETAILS, AND LOCATION OF ELEMENTS SHOWN AS PART OF THIS DOCUMENT ARE SUBJECT TO FINAL PLANS AND SPECIFICATIONS.

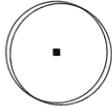
PLANT MATERIAL:

- ALL PLANT MATERIAL SHALL BE DROUGHT TOLERANT, COLD HARDY, LOW MAINTENANCE AND NATIVE OR ADAPTED SPECIES.
- NOT ONE SHADE TREE, ORNAMENTAL TREE, SHRUB, OR ORNAMENTAL GRASS SHALL BE USED FOR MORE THAN 40% OF THE PROJECT AREA.
  - A MINIMUM OF THREE (3) SHADE TREE SPECIES SHALL BE USED.
  - A MINIMUM OF THREE (3) ORNAMENTAL TREE SPECIES SHALL BE USED.
  - A MINIMUM OF TWO (2) 5 GALLON SHRUBS SHALL BE USED.
  - A MINIMUM OF THREE (3) 3 GALLON SHRUBS SHALL BE USED.
  - A MINIMUM OF THREE (3) 1 GALLON SHRUBS SHALL BE USED.
  - A MINIMUM OF THREE (3) ORNAMENTAL GRASSES SHALL BE USED.
- IT IS NOT REQUIRED FOR ALL RECOMMENDED PLANT MATERIAL TO BE USED.
- IF THE CONTRACTOR WOULD LIKE TO PROPOSE A PLANT THAT IS NOT IDENTIFIED IN THIS DOCUMENT, THE PLANT TYPE AND ITS SIZE CAN BE SUBMITTED TO THE OWNER FOR APPROVAL.
- THE PLANT SIZES LISTED ARE MINIMUM REQUIREMENTS. IF ORNAMENTAL GRASSES/SHRUBS ARE NOT AVAILABLE IN THE IDENTIFIED SIZES, AN ALTERNATIVE PLANT SIZE WITH A MODIFIED SPACING CAN BE SUBMITTED TO THE OWNER FOR APPROVAL.

SITE CONDITIONS:

- TREES, SHRUBS AND ORNAMENTAL GRASSES SHALL NOT BE LOCATED IN DITCHES OR SWALES.
- NO PLANT MATERIAL SHALL BE LOCATED ON SLOPES GREATER THAN 3:1.
- CONTRACTOR SHALL COORDINATE PLANT SPECIES AND PLACEMENT WITH AUSTIN-BERSTROM INTERNATIONAL AIRPORT.

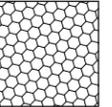
ROADWAY MODULE PLANT KEY AND REQUIREMENTS



**SHADE TREES**  
 QTY: 6 PER MODULE LENGTH OF LANDSCAPE SPACING: 15'-0" MAX. SEE SECTION, THIS SHEET FOR SPECIES OPTIONS (MIN. 2 SPECIES PER MODULE)



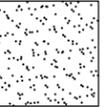
**ORNAMENTAL TREES**  
 QTY: 10 PER MODULE LENGTH OF LANDSCAPE SPACING: 10'-0" MAX. SEE SECTION, THIS SHEET FOR SPECIES OPTIONS (MIN. 2 SPECIES PER MODULE)



**SHRUB BEDS**  
 QTY: 6 PER MODULE LENGTH OF LANDSCAPE SPACING: PER PLANT LIST SEE SECTION, THIS SHEET FOR SPECIES OPTIONS (MIN. 2 SPECIES PER MODULE)



**ORNAMENTAL GRASS BEDS**  
 QTY: 10 PER MODULE LENGTH OF LANDSCAPE SPACING: PER PLANT LIST SEE SECTION, THIS SHEET FOR SPECIES OPTIONS (MIN. 2 SPECIES PER MODULE)



**SEEDED NATIVE GRASS AREAS**  
 SQUARE FOOTAGE OF SEED PER MODULE OF LANDSCAPE WILL VARY (CALICHE MIX) SEE SECTION, THIS SHEET FOR SEED MIX INFORMATION

**EROSION CONTROL SEEDING (APPLIED TO SLOPES GREATER THAN 6:1)**  
 DONE IN ACCORDANCE WITH 2004 TEXAS STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES- ITEM 164 WITH THE ADDITION OF WILDFLOWER SEED MIX AS SHOWN IN TXDOT'S "BLACKLAND PRAIRIE REGION" SEED LIST (FOUND ON TXDOT'S WEBSITE)-  
[http://www.dot.state.tx.us/mnt/wildflower/Seed\\_List\\_h.htm/blackland.htm](http://www.dot.state.tx.us/mnt/wildflower/Seed_List_h.htm/blackland.htm)

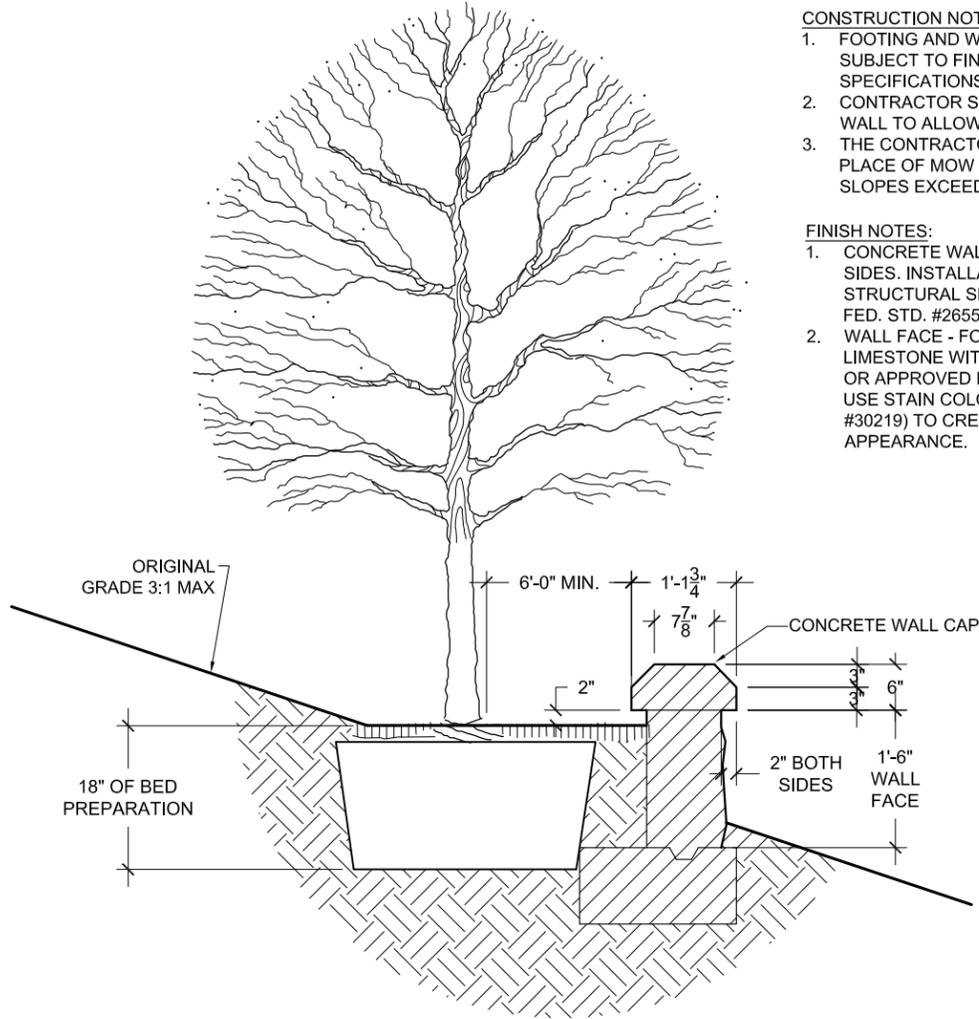
PLANT LIST

Botanical Name	Common Name	Plant Size	Spacing
<b>SHADE TREES</b>			
<i>Quercus macrocarpa</i>	Burr Oak	3"-3.5" CAL	15' MAX
<i>Quercus texana</i>	Texas Red Oak	3"-3.5" CAL	15' MAX
<i>Quercus virginiana</i>	Live Oak	3"-3.5" CAL	15' MAX
<i>Ulmus crassifolia</i>	Cedar Elm	3"-3.5" CAL	15' MAX
<b>ORNAMENTAL TREES</b>			
<i>Cercis canadensis var. texana</i>	Texas Redbud	2" CAL	10' MAX
<i>Rhus lanceolata</i>	Prairie Flameleaf Sumac	2" CAL	10' MAX
<i>Sophora secundiflora</i>	Texas Mountain Laurel - Multi Trunk	2" CAL	10' MAX
<i>Ungnadia speciosa</i>	Mexican Buckeye	2" CAL	10' MAX
<b>SHRUBS/ PERENNIALS</b>			
<i>Elaeagnus pungens</i>	Elaeagnus	5 GAL	60" MAX
<i>Leucophyllum frutescens</i>	Texas Sage	5 GAL	48" MAX
<i>Mahonia trifoliolata</i>	Agarita	5 GAL	48" MAX
<i>Ansacanthus quadrifidus v. wrightii</i>	Flame Acanthus	3 GAL	36" MAX
<i>Dasyllirion texanum</i>	Texas Sotol	3 GAL	48" MAX
<i>Hesperaloe parviflora</i>	Red Yucca	3 GAL	36" MAX
<i>Hibiscus martianus</i>	Heartleaf Rosemallow	3 GAL	36" MAX
<i>Salvia leucantha</i>	Mexican Bush Sage	3 GAL	36" MAX
<i>Dalea frutescens</i>	Black Dalea	3 GAL	36" MAX
<i>Chrysactinia mexicana</i>	Damianita	1 GAL	18" MAX
<i>Glandularia bipinnatifida v bipinnatifida</i>	Prairie Verbena	1 GAL	18" MAX
<i>Pavonia lasiopetala</i>	Texas Rock Rose	1 GAL	36" MAX
<i>Penstemon triflorus</i>	Hill Country Penstemon	1 GAL	18" MAX
<i>Salvia greggii 'White'</i>	White Autumn Sage	1 GAL	36" MAX
<i>Tagetes lemmonii</i>	Copper Canyon Daisy	1 GAL	36" MAX
<b>ORNAMENTAL GRASSES</b>			
<i>Bouteloua curtipendula</i>	Sideoats Grama	1 GAL	18" MAX
<i>Nassella tenuissima</i>	Mexican Feathergrass	1 GAL	18" MAX
<i>Muhlenbergia capillaris</i>	Gulf Muhly	1 GAL	24" MAX
<i>Muhlenbergia lindheimerii</i>	Lindheimer's Muhly	1 GAL	36" MAX
<i>Schizachyrium scoparium</i>	Little Bluestem	1 GAL	18" MAX
<b>CALICHE SEED MIX FOR NATIVE GRASSES</b>			
<i>Bouteloua curtipendula</i>	Sideoats Grama	Refer to TxDOT Specifications for Rates.	
<i>Bouteloua gracilis</i>	Blue Grama		
<i>Buchloe dactyloides</i>	Buffalograss		
<i>Elymus canadensis</i>	Prairie Wildrye		
<i>Eragrostis trichodes (Nutt.) Wood</i>	Sand Lovegrass		
<i>Leptochloa dubia</i>	Green Sprangletop		
<i>Schizachyrium scoparium</i>	Little Bluestem		
<i>Sporobolus cryptandrus (Torr.) Gray</i>	Sand Dropseed		

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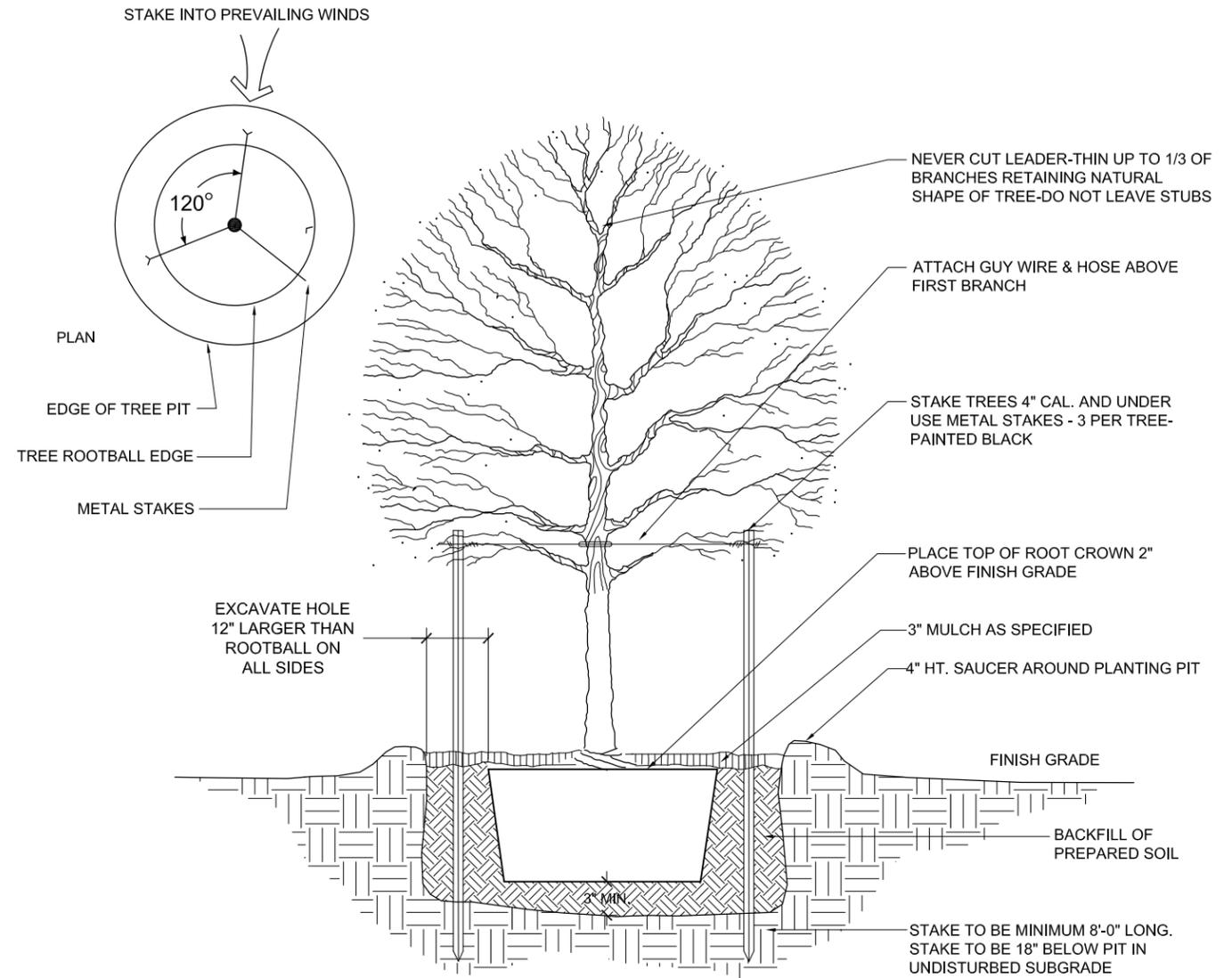


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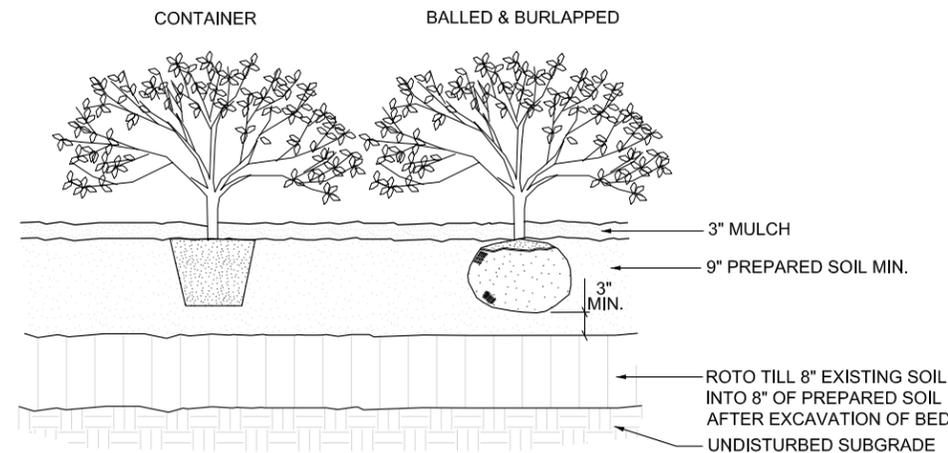


- CONSTRUCTION NOTES:**
1. FOOTING AND WALL REINFORCEMENT SUBJECT TO FINAL PLANS AND SPECIFICATIONS.
  2. CONTRACTOR SHALL PLACE WEEP HOLES IN WALL TO ALLOW FOR BED DRAINAGE.
  3. THE CONTRACTOR MAY BUILD THIS WALL IN PLACE OF MOW STRIP IN AREAS WHERE SLOPES EXCEED 6:1.
- FINISH NOTES:**
1. CONCRETE WALL CAP- 3" CHAMFER BOTH SIDES. INSTALLATION & REINFORCEMENT PER STRUCTURAL SPECIFICATIONS. STAIN COLOR FED. STD. #26559.
  2. WALL FACE - FORM LINER 166D CHISELED LIMESTONE WITH JOINTS BY SCOTT SYSTEM OR APPROVED EQUAL. CONTRACTOR SHALL USE STAIN COLORS (FED. STD. #26559, #30324, #30219) TO CREATE A REALISTIC LIMESTONE APPEARANCE.

**1** PLANT INSTALLATION ON SLOPES STEEPER THAN 6:1  
SCALE: NOT TO SCALE



**3** SHRUB BED AND BED PREPARATION DETAIL  
SCALE: NOT TO SCALE



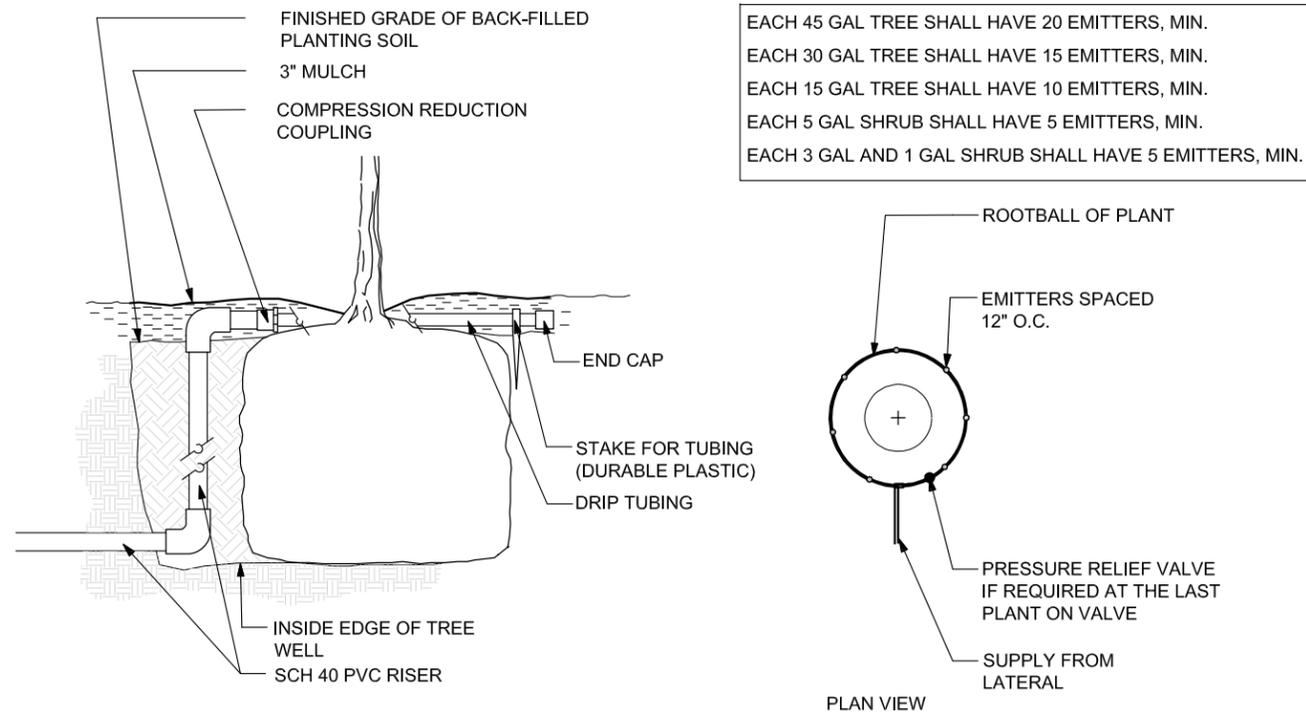
NOTE: PLANT SHRUBS USING TRIANGULAR SPACING

**2** SHRUB BED AND BED PREPARATION DETAIL  
SCALE: NOT TO SCALE

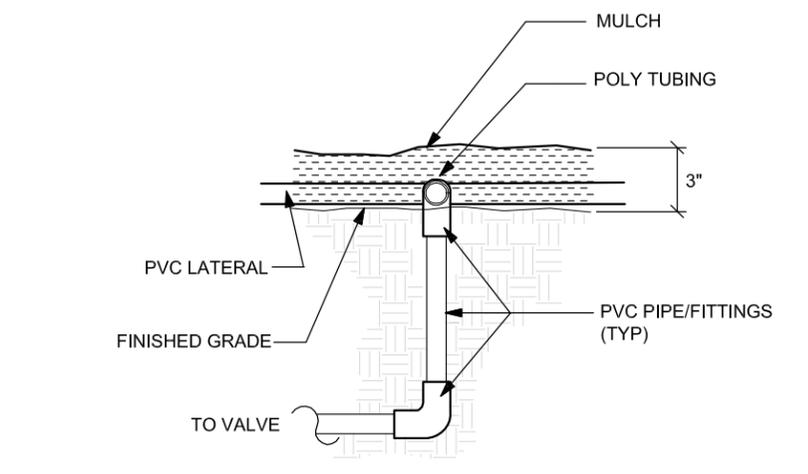
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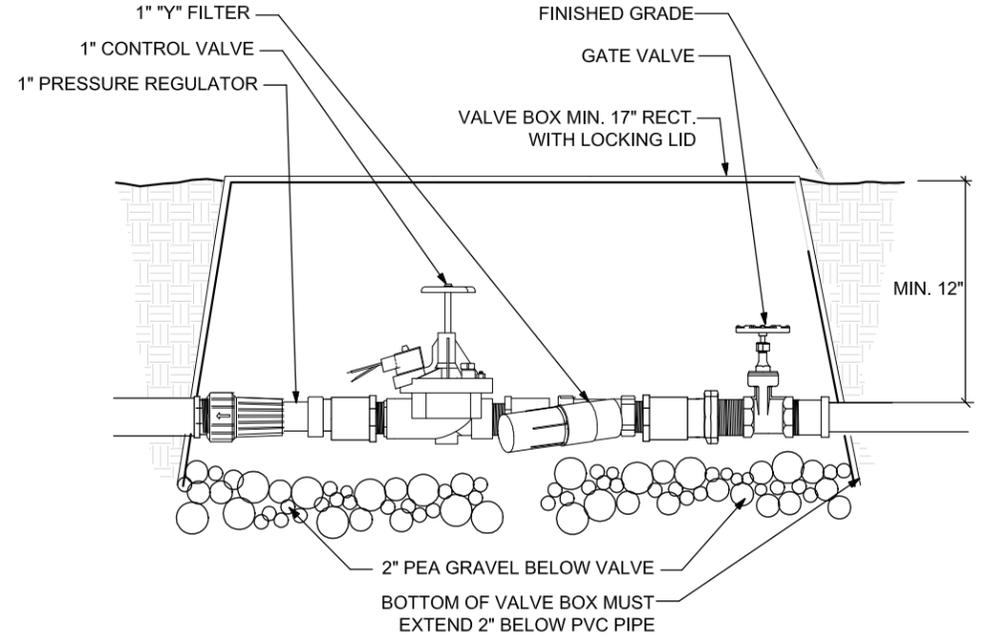
**1** TYPICAL INSTALLATION OF DRIP IRRIGATION AT TREES  
SCALE: NOT TO SCALE



**2** TYPICAL DRIP IRRIGATION PVC/ HEADER CONNECTION  
SCALE: NOT TO SCALE

NOTES:

1. ALL LANDSCAPE PLANTING BEDS AND TREES SHALL HAVE DRIP IRRIGATION WITH POWER CONTROLLERS. ALL IRRIGATION IMPROVEMENTS SHALL BE OF OPERATIONAL QUALITY FOR A MINIMUM OF 5 YEARS.
2. INSTALLATION OF ALL IRRIGATION SYSTEMS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF AUSTIN SITE DEVELOPMENT PERMIT - IRRIGATION NOTES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED, AND FOR THE PAYMENT OF ALL FEES NECESSARY FOR THE INSTALLATION AND OPERATION OF THE IRRIGATION SYSTEM.
4. IRRIGATION SYSTEMS SHALL MAINTAIN A DISTANCE BETWEEN TREES AND STRUCTURES EQUAL TO OR GREATER THAN THE RADIUS OF THE MATURE DRIPLINE.
5. CONTRACTOR SHALL PROVIDE TXDOT WITH AN IRRIGATION DESIGN AND SUBMITTALS FOR REVIEW AND APPROVAL.
6. IRRIGATION CONTROLLER(S) LOCATION(S) SHALL BE APPROVED BY TXDOT.
7. IRRIGATION CONTROLLER(S) SHALL BE A.C.



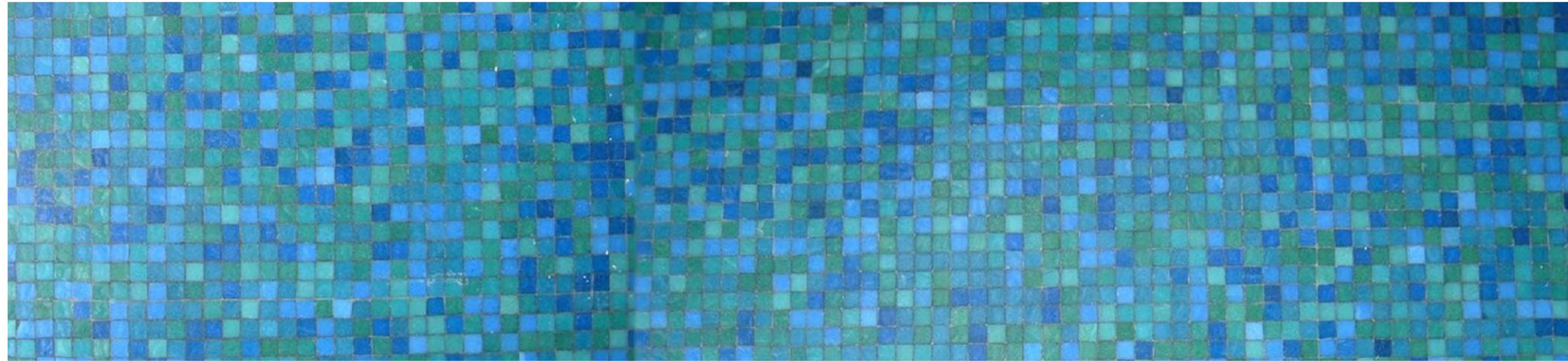
**3** TYPICAL VALVE ASSEMBLY FOR DRIP IRRIGATION SECTION  
SCALE: NOT TO SCALE

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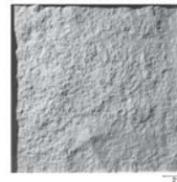
REVISION

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8.0 FINISH SCHEDULE

**FORM LINER**



**STAIN COLOR**



FED. STD.  
#30324

**FACILITY ELEMENTS**

STANDARD TRAFFIC BARRIER ATOP RETAINING WALLS  
T551 TRAFFIC BARRIER ATOP RETAINING WALLS  
MSE WALL  
BRIDGE ABUTMENT WALL (PRESIDENTIAL BOULEVARD)

166A CHISELED LIMESTONE  
SCOTT SYSTEM (OR APPROVED EQUAL)

**STAIN COLOR**



FED. STD.  
#26152

**FACILITY ELEMENTS**

STEEL ELLIPSE HSS  
LIGHT POLE AND ARM

**FORM LINER**



**STAIN COLOR**



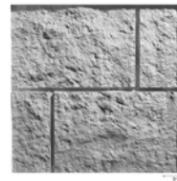
FED. STD.  
#26559

**FACILITY ELEMENTS**

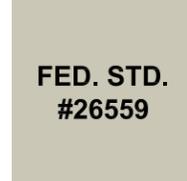
FEATURE WALL PILASTER CAP AND BASE  
RETAINING WALL PILASTER CAP & BASE  
BRIDGE ABUTMENT WALL PILASTER BASE (PRESIDENTIAL BOULEVARD)  
PYLONS "A" THROUGH "D" CAP & BASE

166B 1 1/4" CHISELED LIMESTONE  
SCOTT SYSTEM (OR APPROVED EQUAL)

**FORM LINER**



**STAIN COLOR(S)**



FED. STD.  
#26559



FED. STD.  
#30324



FED. STD.  
#30219

**FACILITY ELEMENTS**

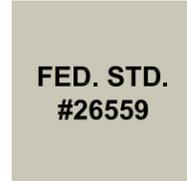
FEATURE WALL  
MSE RETAINING WALL  
SLOPED RETAINING WALL  
STANDARD TRAFFIC BARRIER AT BRIDGE  
T551 TRAFFIC BARRIER AT BRIDGE  
LOW WALL  
FREE STANDING LOW WALL  
PLANT INSTALLATION ON SLOPES STEEPER THAN 6:1

166D CHISELED LIMESTONE W/ JOINTS  
SCOTT SYSTEM (OR APPROVED EQUAL)

**FORM LINER**



**STAIN COLOR(S)**



FED. STD.  
#26559



FED. STD.  
#30324



FED. STD.  
#30219

**FACILITY ELEMENTS**

FEATURE WALL PILASTER TRUNK  
KEYSTONE ARCH AT FEATURE WALL  
RETAINING WALL PILASTER TRUNK  
BRIDGE ABUTMENT WALL PILASTER TRUNK (PRESIDENTIAL BOULEVARD)  
PYLONS "A" THROUGH "D" TRUNK  
SIGN STRUCTURE BASE

167B ASHLAR STONE B  
SCOTT SYSTEM (OR APPROVED EQUAL)

DIMENSIONS ARE APPROXIMATE AND ARE FOR PROPORTIONAL RELATIONSHIPS. ALL DIMENSIONS OF EXISTING ELEMENTS REQUIRE FIELD VERIFICATION. FIELD ADJUSTMENTS TO LAYOUT ARE EXPECTED.

