



Texas Department of Transportation

**LBJMP**  
MOBILITY PARTNERS

IH635 MANAGED LANES PROJECT

## BOOK 2A: ATTACHMENT 15-1A

SEPTEMBER 2007



Table of Contents

Table of Contents ..... 0.00

Corridor Overview ..... 0.01

Aesthetic Layout Diagram ..... 0.02

Corridor Color Pallet..... 0.03

Concrete Finishes..... 0.04

Highway Elements

Bridge Aesthetics

Cross Street Under Pass

    Bridge Elevations..... 1.00

    Abutment Walls..... 1.00

    Center Bent..... 1.01

    Fence Details..... 1.01

Cross Street Over Pass

    Bridge Elevations..... 1.02

    Abutment Walls..... 1.02

    Center Bent..... 1.03

Cross Street Under Pass - U-Wall..... 1.03

Beam Construction..... 1.04

Barrier Details..... 1.04

Rip Rap Details..... 1.05

U-Wall Sections..... 1.06

IH-635 Columns

    Elevated Mainlanes Column / Pedestrian Bridge..... 1.07

    Column Type Location Diagram..... 1.08

    Joe Ratcliff Walkway / Pedestrian Bridges..... 1.08

Color Concepts

    Cross Street Underpass..... 1.09

    Cross Street Overpass..... 1.10

    Elevated Mainlanes Column / Pedestrian Bridge..... 1.11

IH-635 Retaining Walls

Retaining Wall Elevations..... 2.00

Wall Alignment..... 2.00

Wall Configuration..... 2.01

Wall Pattern Layout..... 2.02

Wall Panels (Stack MSE)..... 2.04

Wall Panels (Staggered MSE)..... 2.07

U-Wall Elevation..... 2.09

Retaining Wall Color Concept..... 2.10

Noise Walls

Noise Wall Elevations ..... 3.00

Wall Panel..... 3.01

Wall Panel Connection..... 3.01

Wall End Columns..... 3.02

Cross Sections..... 3.02

Noise Wall Color Concept..... 3.03

Hardscape

Cross Street Under Pass pattern..... 4.00

Cross Street Over Pass pattern..... 4.01

Signage

Sign Bridge Elevations..... 5.00

Cantilevered Sign Supports..... 5.01

Center Supported Signs (Butterfly)..... 5.02

Sign Bridge Truss Elevations..... 5.03

Gantry..... 5.04

Signage Color Concept..... 5.05

Roadway Lighting

Typical IH 635 Lighting Layout Sections..... 6.00

Typical IH 635 Light Pole Layout Diagram..... 6.00

Typical IH-35E Lighting Layout Sections..... 6.01

Typical IH-35E Lighting Pole Layout Diagram..... 6.01

Tunnel Aesthetics (cut-n-cover and mined)

Porcelain \ Tile Wall Pattern..... 7.00

Ceiling Plan..... 7.00

Wall Pattern Layout..... 7.01

Tunnel Aesthetics (Continued)

Wall Obstructions..... 7.03

Lighting Shroud..... 7.04

Architectural Ceiling Element..... 7.04

Cut and Cover Tunnel Sections..... 7.05

Special Lighting..... 7.05

Mined Tunnel Cross Sections..... 7.06

Tunnel Portal Entry..... 7.07

Tunnel Pattern Color Concept..... 7.09

Portal Color Concept..... 7.10

IH-35E Corridor

Column Elevations..... 8.00

Rotation Diagram..... 8.02

Barrier Details..... 8.02

Retaining Wall Elevations..... 8.03

Wall Configuration..... 8.03

Coping Details..... 8.03

Wall Panels..... 8.04

Elevated Mainlanes Column Color Concept..... 8.07

Retaining Wall Color Concept..... 8.08

Landscaping

Landscaping..... 9.00

Landscape Details..... 9.01

Landscape at Elevated Mainlanes..... 9.02

Aesthetic Guideline Overview

The Urban design guidelines for the IH-35E and IH-635 corridors, establish the criteria manual for preliminary engineering of the highway corridor aesthetics. The design criteria provided serves as the primary standard guidelines necessary to produce the intended aesthetic form, function and appearance for the IH-635 Managed Lanes Project. These guidelines are to be incorporated into final engineering designs.

The intent of Attachment 15-1A, is to provide the developer with general and minimum guidelines used to establish continuity throughout the corridor. The developer may provide alternate solutions for construction, placement, but shall not deviate from the intended concept and design intent. Any such deviation will result in failure to comply with the Technical Provisions. Flexibility will be given to accommodate process, procedures, innovative techniques, and specific design elements.

In addition to the design intent of the Urban design guidelines, the developer shall provide a plan for community involvement. Community involvement shall be to provided to allow the local community, cities, and land owners an opportunity to enhance the corridor. The Developer shall provide a plan that accomplishes the following:

1.

Program for community involvement.

2.

Plans for landscaping, hardscape, and any other aesthetics to be accomplished by the Developer, but paid for by the community. All landscaping, hardscape, or any addition aesthetic treatments within the ROW shall be Approved by TxDOT.

3.

Developer shall provide an overall master plan that is to include sketches, elevations, plan, and details as needed to describe the enhancement agreed upon by the Developer and communities for approval.

Design Theme

Upon review of many schemes for the IH-35E corridor and IH-635 corridor the following can be used to summarize the aesthetic goals for the corridors.

1.

Fast paced, directional, and should be modern, clean, and provide a sense of scale.

2.

Terrain, elevation changes 180+ feet from highest point to lowest point within corridor. This represents strata.

3.

'Is' Fast paced highway surrounded by mixed use land

4.

Modernize- color, energy, inviting

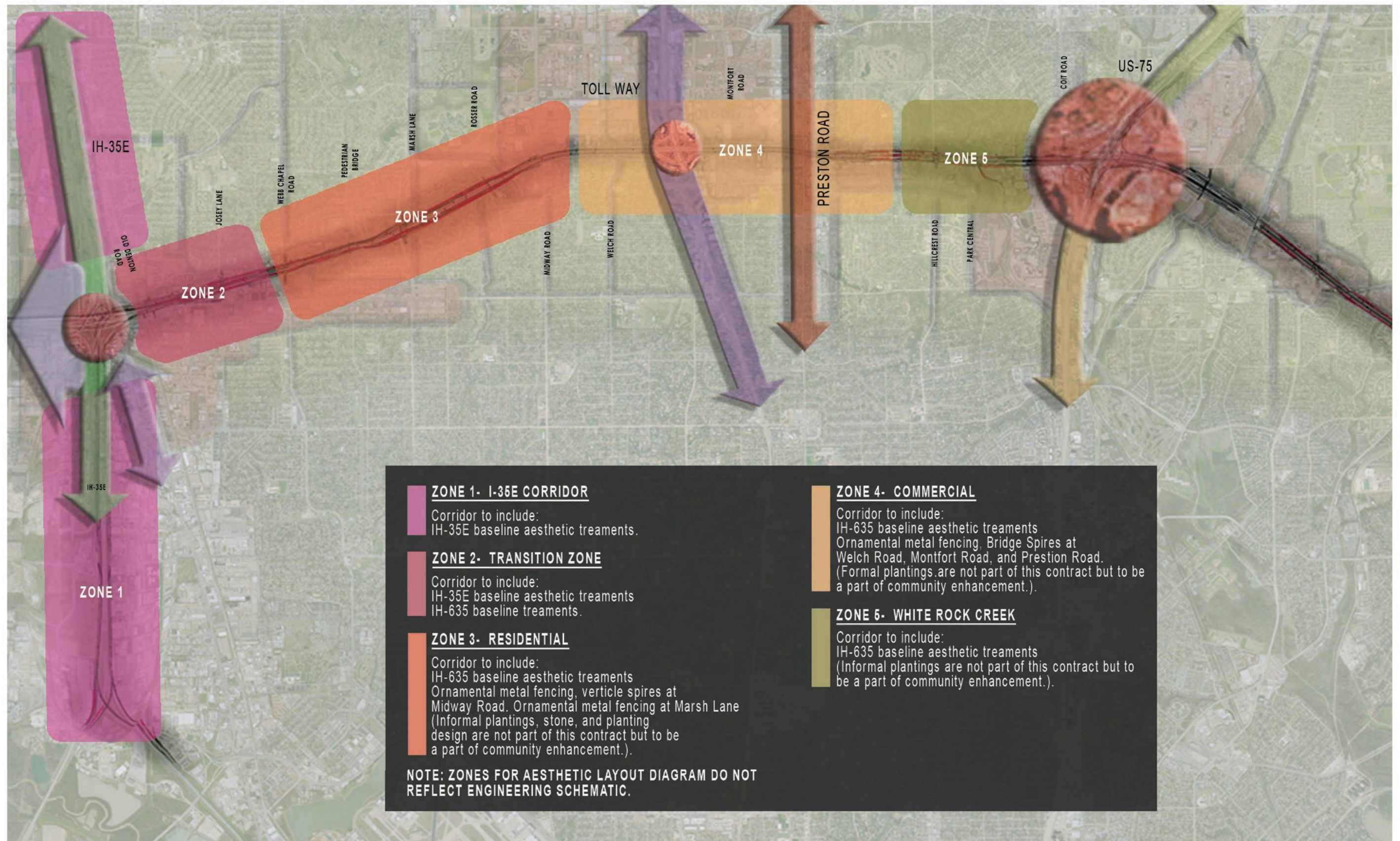
5.

Incorporated both modern theme and native landscaping.

With in this attachment, are items that indicate the intended visual appearance of the corridor; however, there are elements that have not yet been established or need further establishment. This establishment shall be developed by the Developer and provided during all phases of the developers process. In addition to Attachment 15-1A, the Reference Information Document (RID) has been compiled to provide the developer with sketches, images, and ideas of what the design intent of the corridors shall look like when completed. Also within the RID, there are photographs that indicate construction details that should be avoided or improved upon.

It is the understanding of TxDOT that this corridor has the ability to be developed in various stages called Interim-design and Ultimate design. This attachment B-6 does not distinguish between Interim-design and Ultimate design. All constructed materials shall provide the final appearance regardless of phase of construction. Any 3rd party agreements shall be constructed upon the discretion and agreement of the developer and local community, but shall remain within the limits of the design intent provided herein

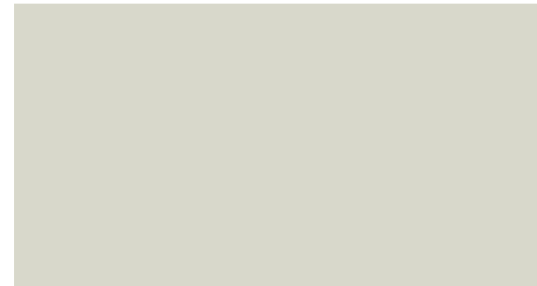






## IH-35E COLOR PALLET

### STANDARD COLOR PALLET



Primary Color:  
Ermine SW1023



Secondary Color:  
Grid Gray SW1026



Accent Color:  
Florentino Green KM395-M

## IH-635 COLOR PALLET

### HARDSCAPE COLOR PALLET

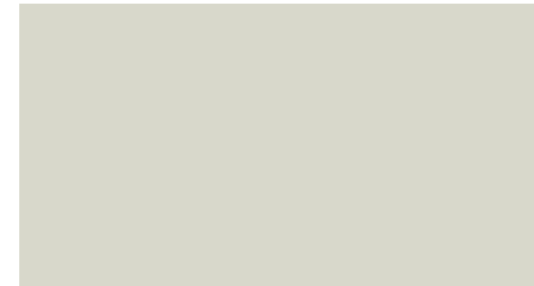


Primary Color:  
Pavestone Charcoal



Secondary Color:  
Pavestone Pewter

### IH 635/SUBSURFACE MANAGED LANES COLOR PALLET



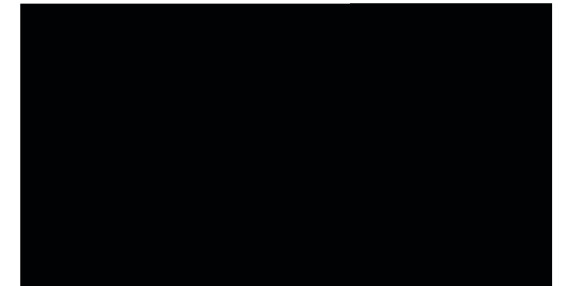
Primary Color:  
Ermine SW1023



Secondary Color:  
Grid Gray SW1026



Secondary Color:  
Countrified Blue SW1509



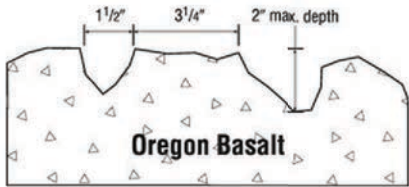
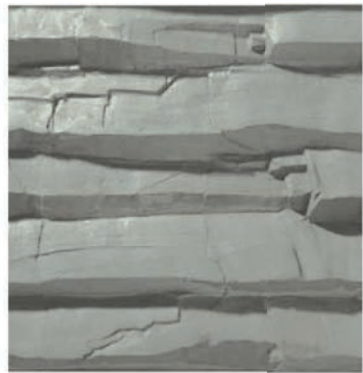
Tunnel Ceiling and Fence Color:  
Black of Night SW 6993



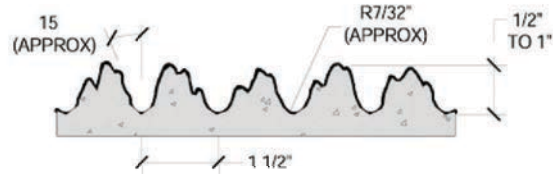
# IH-635 AND IH-35E STANDARD CONCRETE FINISHES



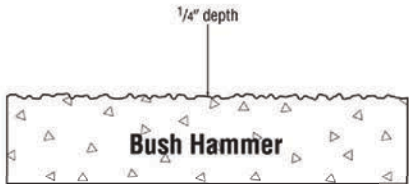
Smooth Finish:  
No Texture



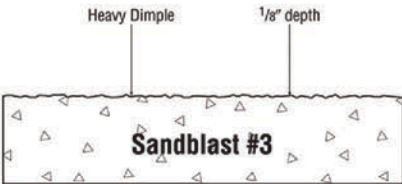
Oregon Basalt Finish:  
Scott System #175  
Oregon Basalt



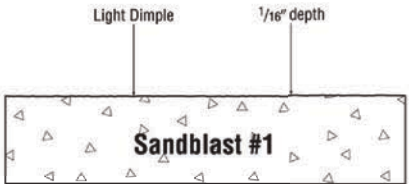
1" Fractured Fin:  
Greenstreak #373  
Fractured Fin



1/4" Bush Hammer Finish:  
Scott System #162A  
Bush Hammer

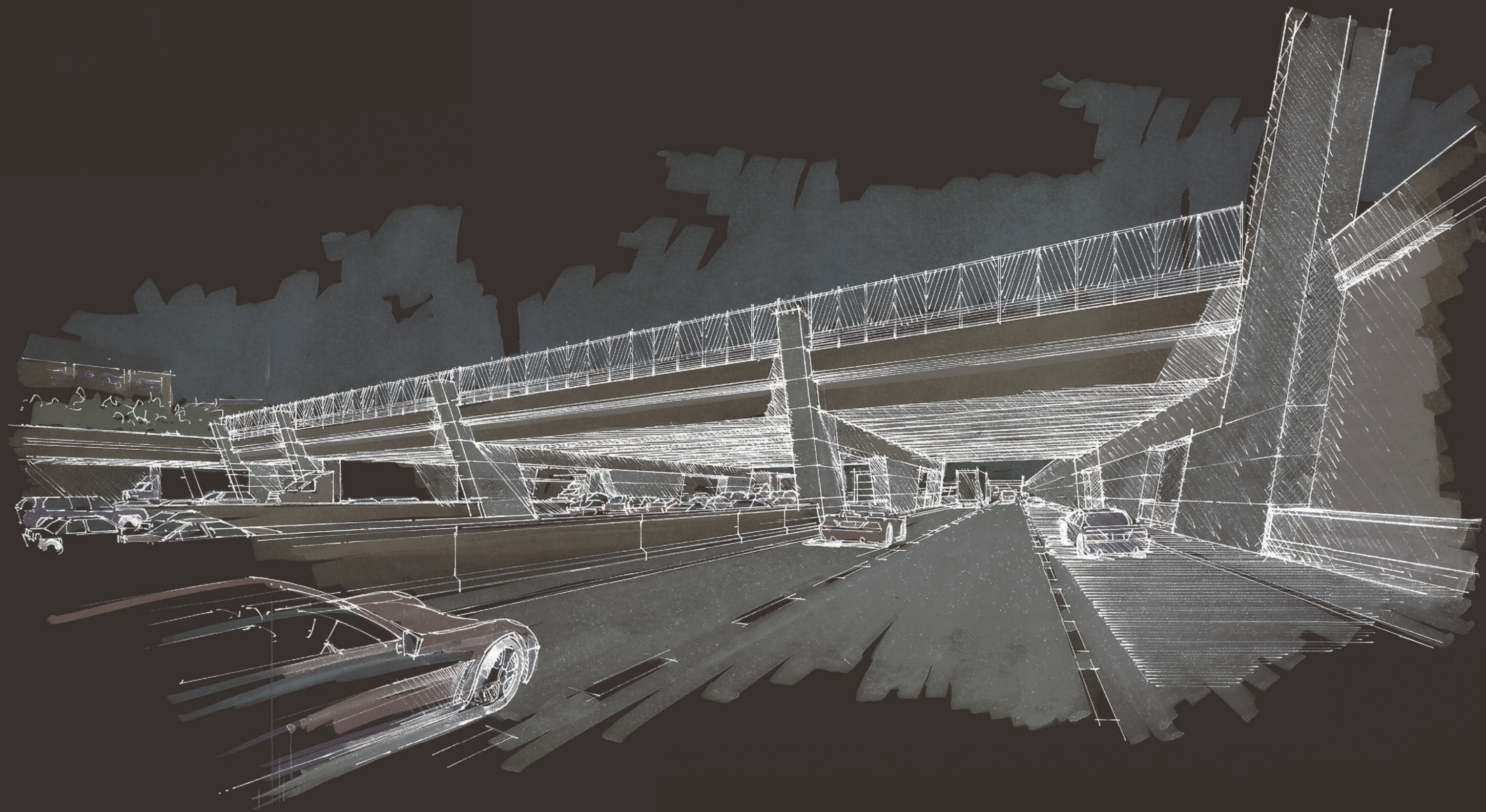


Heavy Sandblast Finish:  
Scott System #121  
Sandblast #3



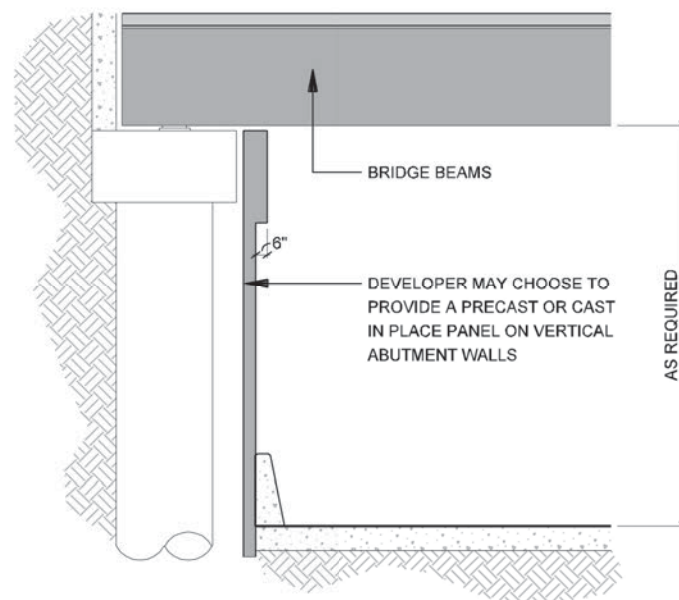
Light Sandblast Finish:  
Scott System #119  
Sandblast #1



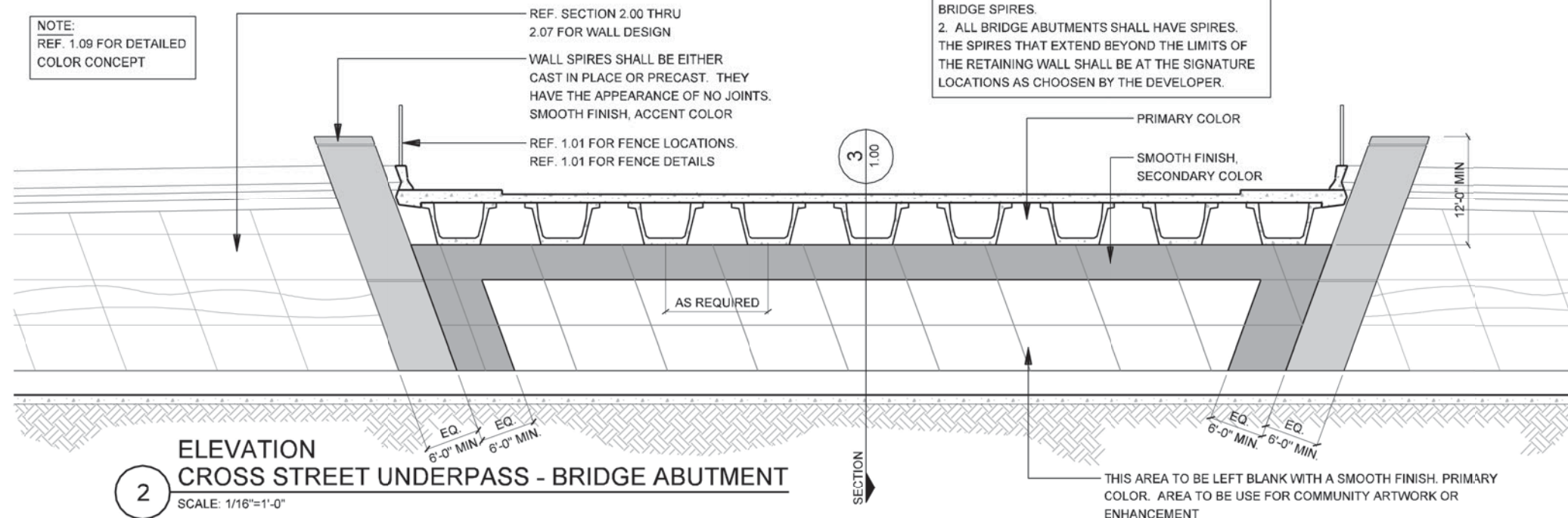


BRIDGE AESTHETICS



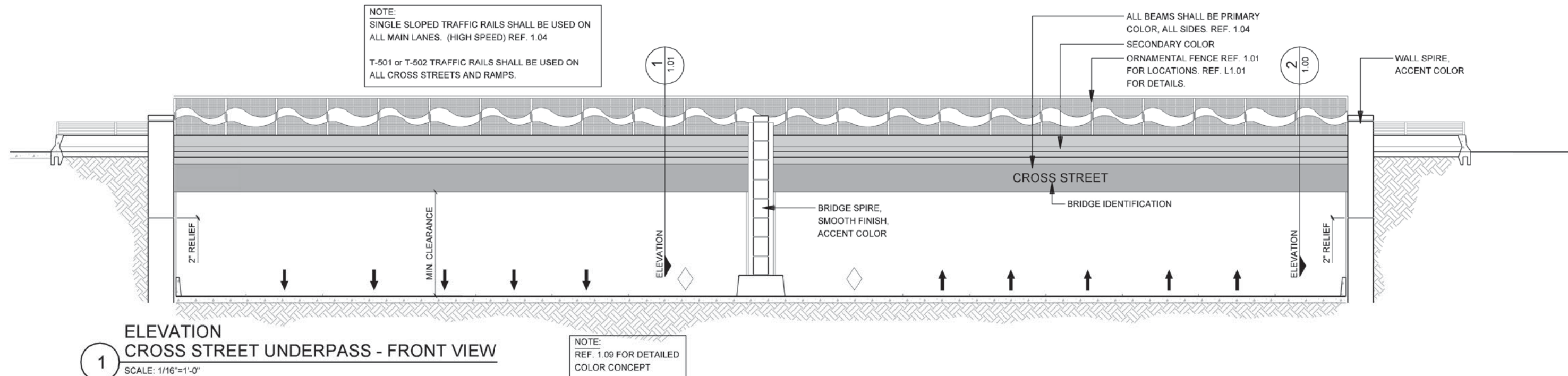


**3** SECTION  
BRIDGE - COLUMNS  
SCALE: 1/8"=1'-0"



**2** ELEVATION  
CROSS STREET UNDERPASS - BRIDGE ABUTMENT  
SCALE: 1/16"=1'-0"

DEFINITION: CROSS STREET UNDERPASS - MAINLANE OF IH635 PASSES UNDER CROSS STREET BRIDGES.



**1** ELEVATION  
CROSS STREET UNDERPASS - FRONT VIEW  
SCALE: 1/16"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

SCALE:  
AS NOTED

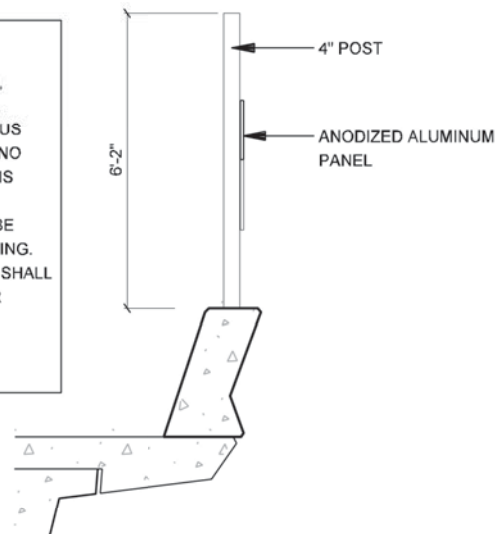
SHEET CONTENTS:  
BRIDGE AESTHETICS

ATTACHMENT:  
15-1A

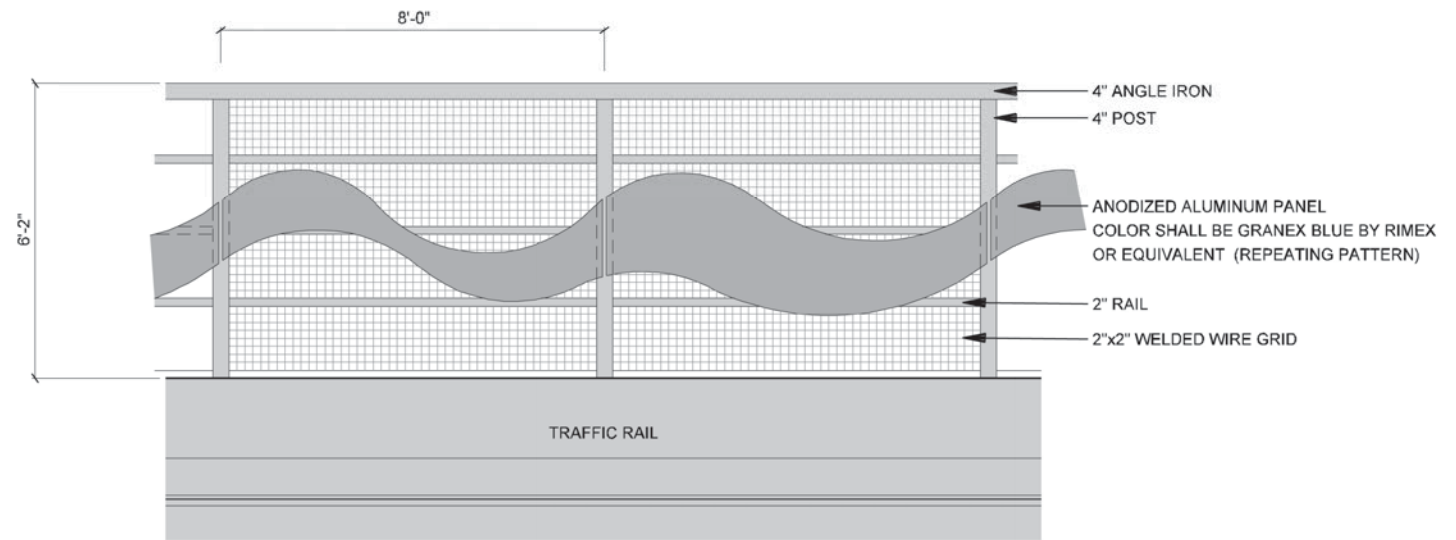
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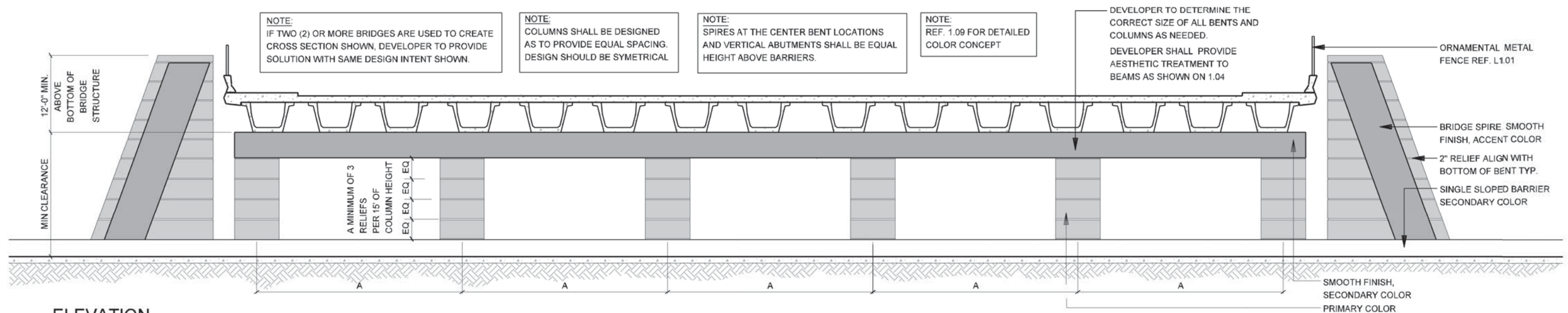
NOTE:  
DEVELOPER SHALL DEVELOP CONCEPT AND LOCATION FOR SECURITY FENCING AT R.O.W., SECURITY FENCING, RAILROAD CROSSINGS AND FENCING FOR RESIDENTIAL ADJACENCY. FENCING SHALL HAVE A CLEAN CONTINUOUS AND ORDERLY APPEARANCE THOUGH OUT CORRIDOR. NO STANDARD CHAIN LINK FENCING SHALL BE USED ON THIS CORRIDOR. DEVELOPER SHALL CHOOSE OR DESIGN A FENCE OTHER THAN STANDARD CHAINLINK THAT WILL BE USED FOR SECURITY FENCING OR ACCESSIBILITY FENCING. ALL FENCING DESIGNS, FENCE COLORS AND LOCATION SHALL BE APPROVED PRIOR TO CONSTRUCTION. (DEVELOPER SHALL ENSURE THAT COORDINATION WITH RAIL ROADS MUNICIPALITIES, AND ALL OTHER PROPERTY OWNERS HAS TAKEN PLACE WITH REGARDS TO FENCING.)



DEVELOPER SHALL DEVELOP METHOD OF CONSTRUCTION FOR FENCE DETAIL.



2 FENCE - SECTION  
SCALE: 1/4"=1'-0"



1 ELEVATION CROSS STREET UNDERPASS - BENT ELEVATION  
SCALE: 1/16"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

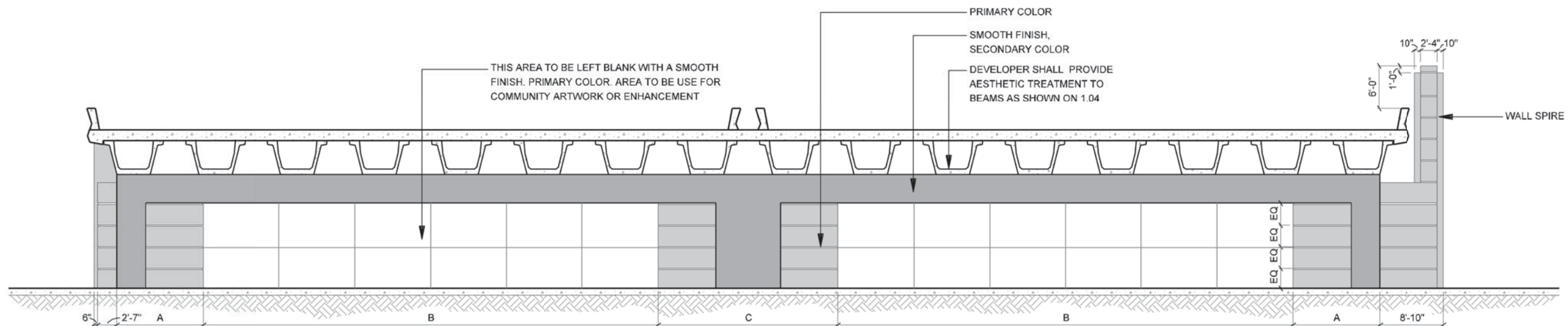
SCALE:  
AS NOTED

SHEET CONTENTS:  
BRIDGE AESTHETICS

ATTACHMENT:  
15-1A

SHEET NUMBER:  
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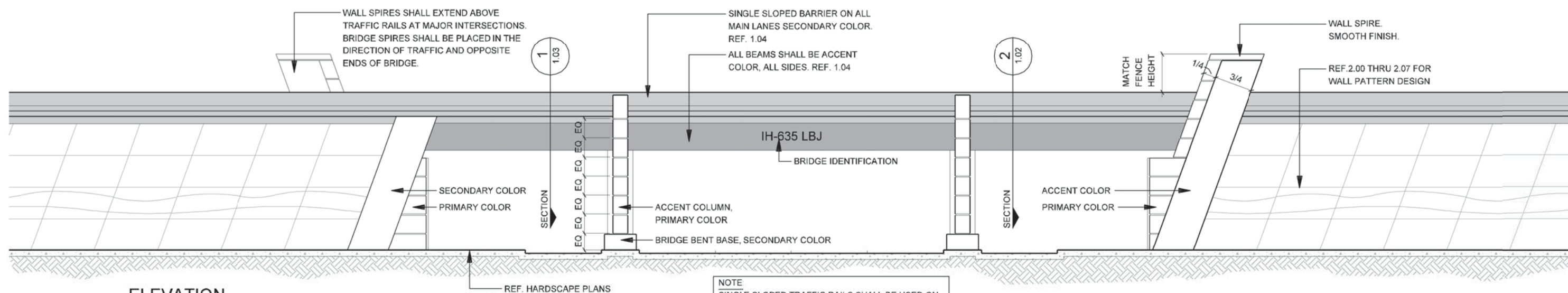




**2**  
ELEVATION  
CROSS STREET OVERPASS - BRIDGE ABUTMENT  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 1.10 FOR DETAILED  
COLOR CONCEPT

DEFINITION: CROSS STREET OVERPASS - MAINLANE OF IH635 PASSES OVER CROSS STREET BRIDGES.



**1**  
ELEVATION  
CROSS STREET OVERPASS - FRONT VIEW  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 1.10 FOR DETAILED  
COLOR CONCEPT

NOTE:  
SINGLE SLOPED TRAFFIC RAILS SHALL BE USED ON  
ALL MAIN LANES.  
T-501 OR T-502 TRAFFIC RAILS SHALL BE USED ON  
ALL CROSS STREETS AND RAMPS.



IH635 MANAGED  
LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

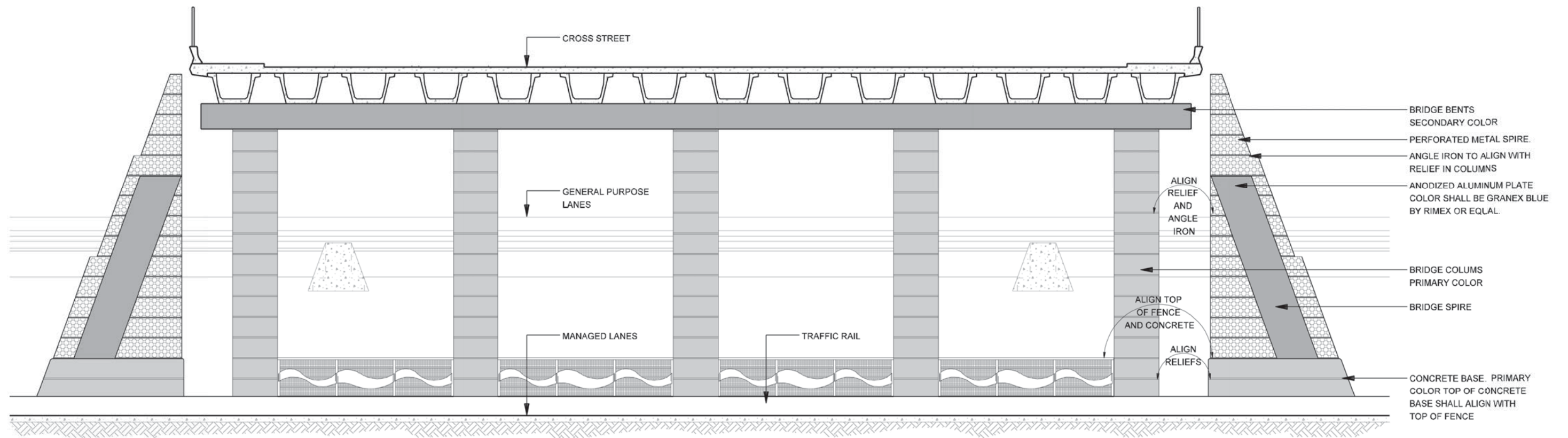
SCALE:  
AS NOTED

SHEET CONTENTS:  
BRIDGE AESTHETICS

ATTACHMENT:  
15-1A

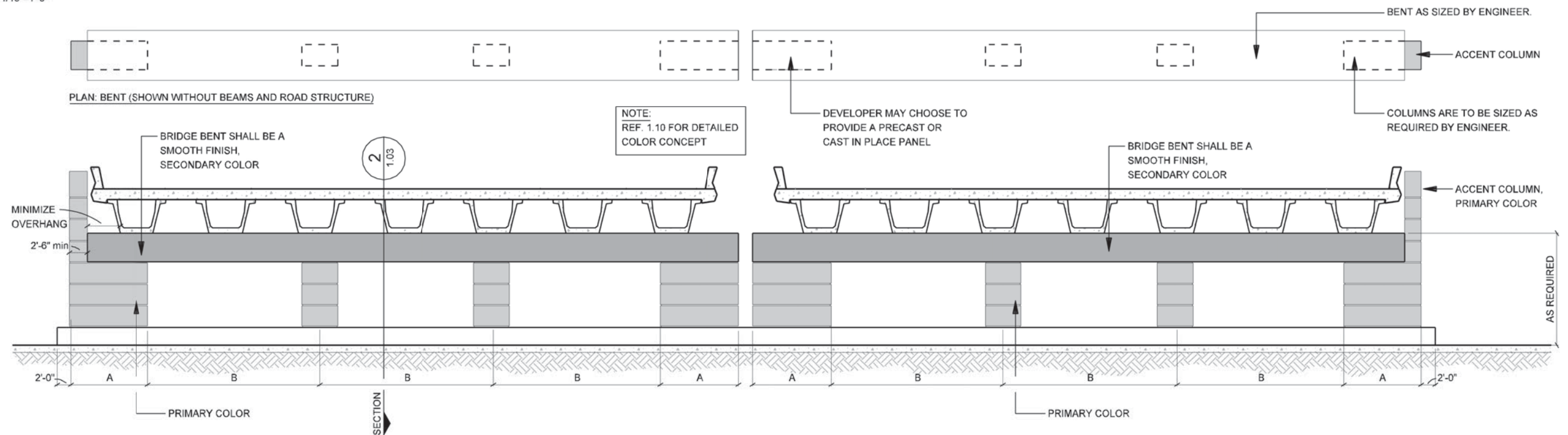
SHEET NUMBER:  
**1.02**





**ELEVATION**  
**CROSS STREET UNDER PASS - U-WALL**

SCALE: 1/16"=1'-0"



**ELEVATION**  
**CROSS STREET OVERPASS - BENT ELEVATION**

SCALE: 1/16"=1'-0"

NOTE:  
IF TWO (2) OR MORE BRIDGES ARE USED TO CREATE  
CROSS SECTION SHOWN, DEVELOPER TO PROVIDE  
SOLUTION WITH SAME DESIGN INTENT SHOWN.

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

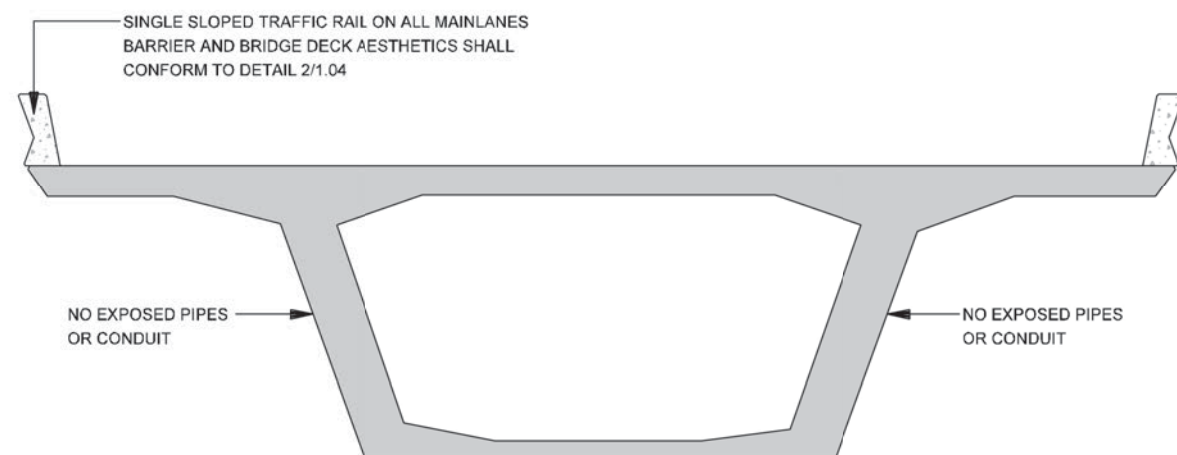
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SHEET CONTENTS:  
BRIDGE AESTHETICS

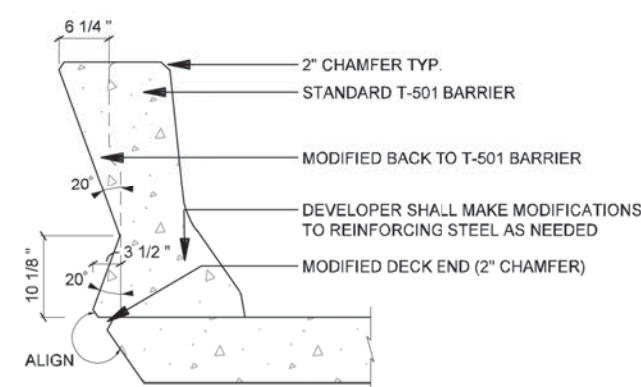
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**1.03**

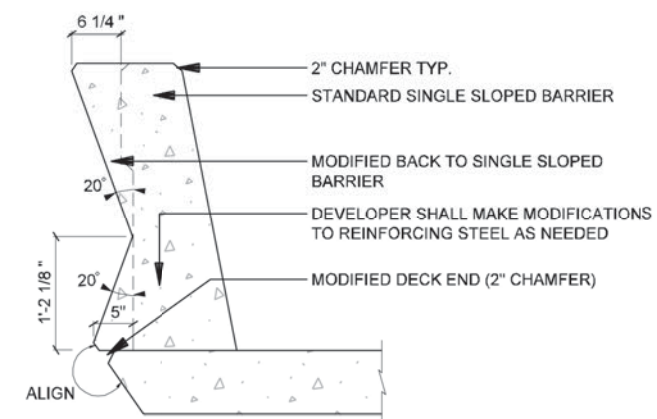




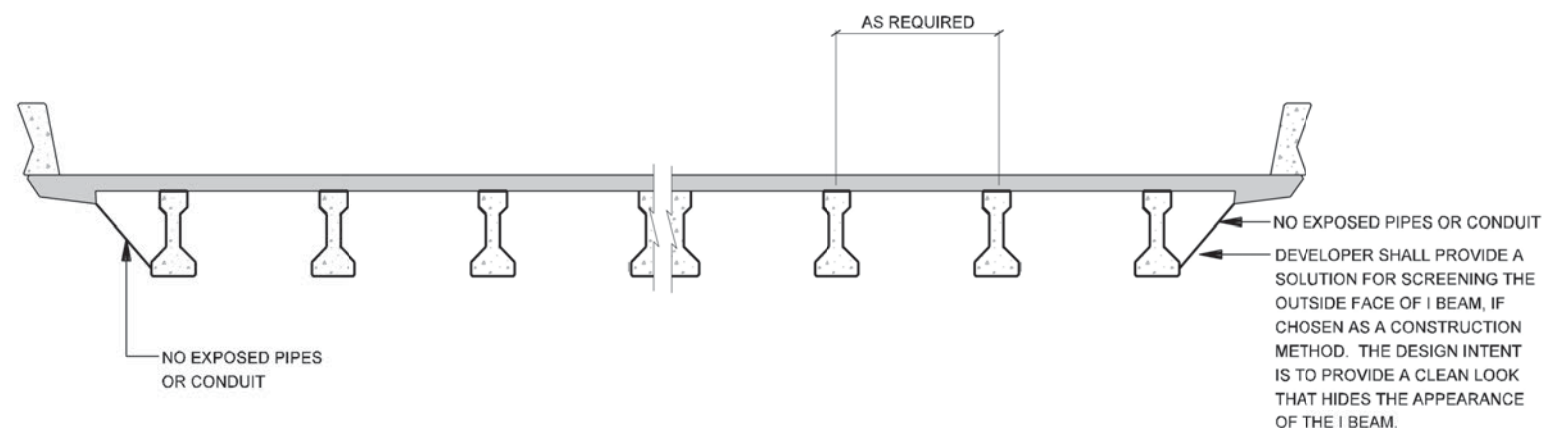
**SECTION 5**  
**SEGMENTAL BRIDGE CONSTRUCTION.**  
 SCALE: NTS



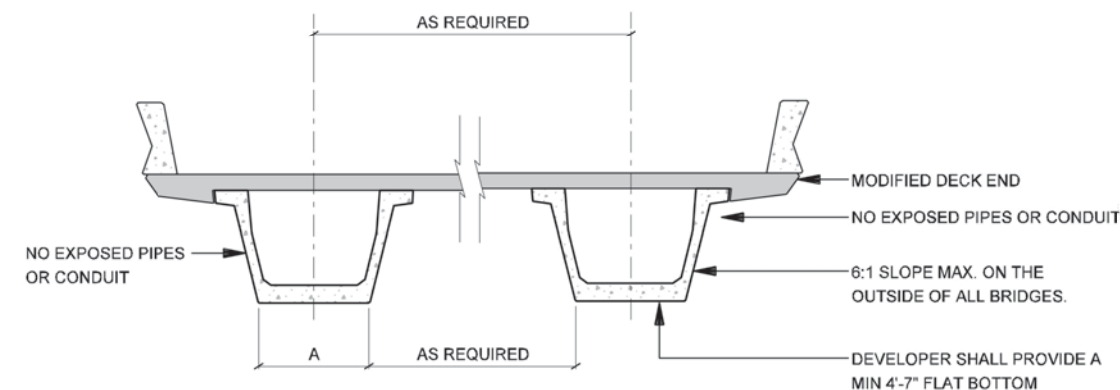
**SECTION 4**  
**MODIFIED T-501, T-502 BARRIER**  
 SCALE: 1/2"=1'-0"



**SECTION 2**  
**MODIFIED SINGLE SLOPED BARRIER**  
 SCALE: 1/2"=1'-0"

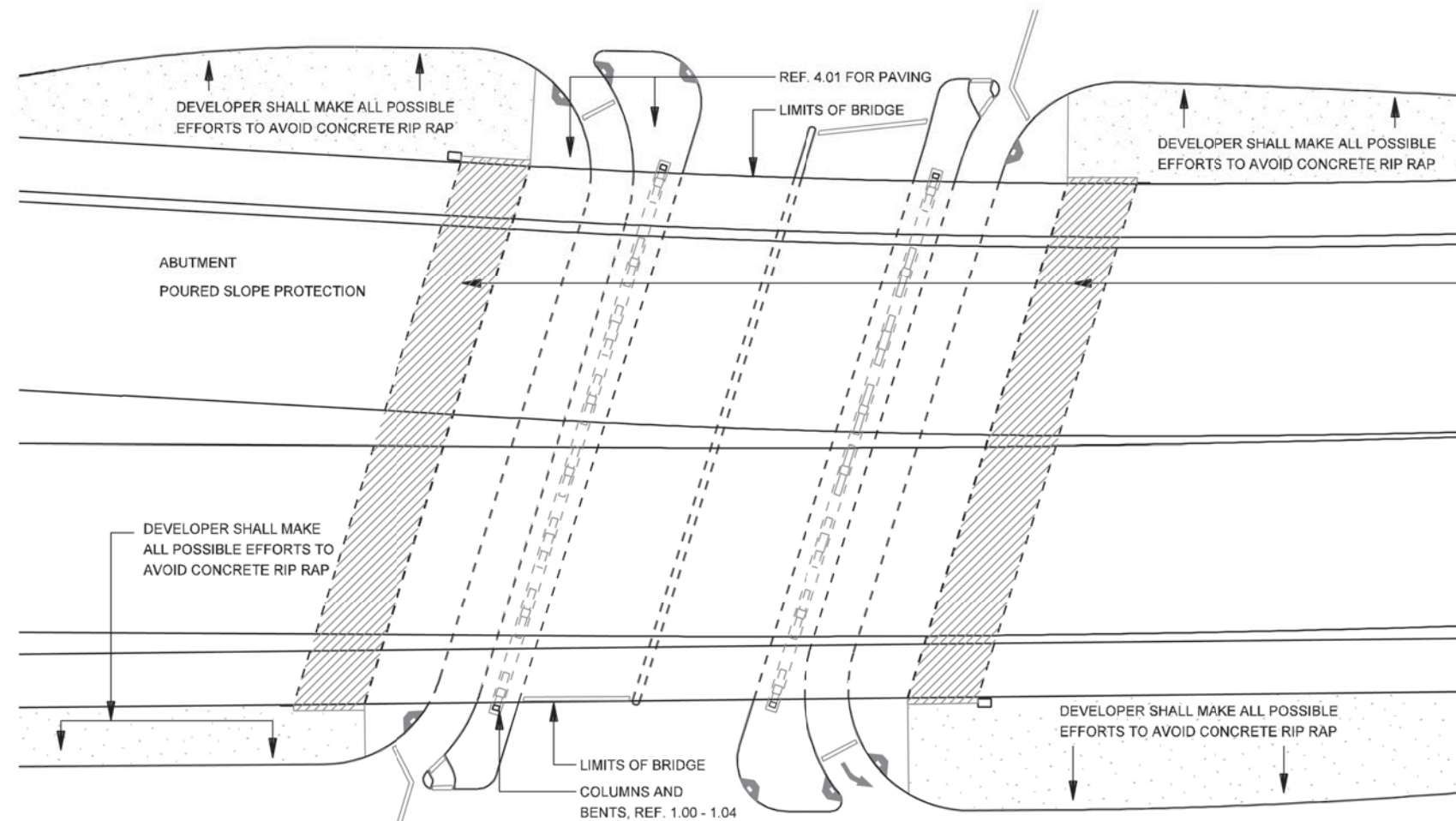


**SECTION 3**  
**ELEVATION I-BEAM STRUCTURE**  
 SCALE: 1/8"=1'-0"



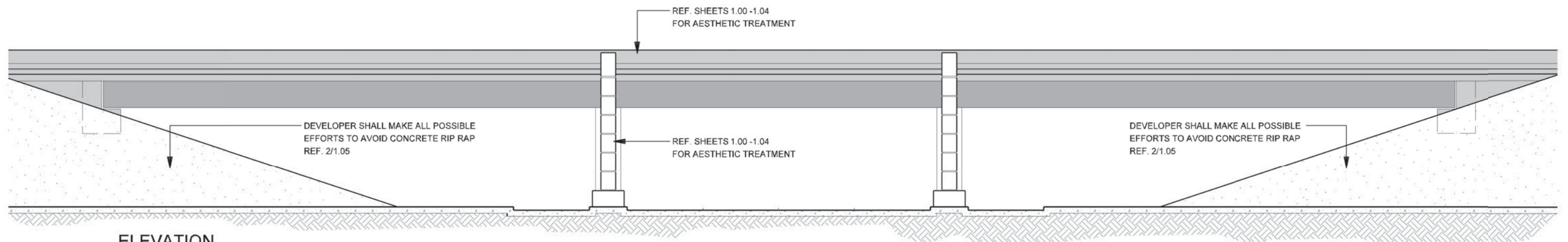
**SECTION 1**  
**U-BEAM STRUCTURE**  
 SCALE: 1/8"=1'-0"





DEVELOPER SHALL MAKE ALL POSSIBLE EFFORTS TO AVOID RIP RAP FROM EXTENDING 3'-0" MAX. BEYOND THE LIMITS OF THE BRIDGE OVERHANG VISIBLE TO ADJACENT PROPERTIES OR THE TRAVELLING PUBLIC. ALL RIP RAP SHALL BE CONCRETE PAVERS OR STAINED CONCRETE WITH ALL JOINTS PARALLEL TO BRIDGE STRUCTURE. ALL RIP RAP SHALL CONFORM TO THE DESIGN INTENT OF THE HARDSCAPE PLANS FOR PATTERN, COLOR AND MATERIAL, REF. 4.01.

**2**  
**PLAN**  
**CROSS STREET OVERPASS/UNDERPASS - RIP RAP**  
 SCALE: NTS



**1**  
**ELEVATION**  
**CROSS STREET OVERPASS/UNDER PASS - RIP RAP**  
 SCALE: 1/16"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
 09/12/2007

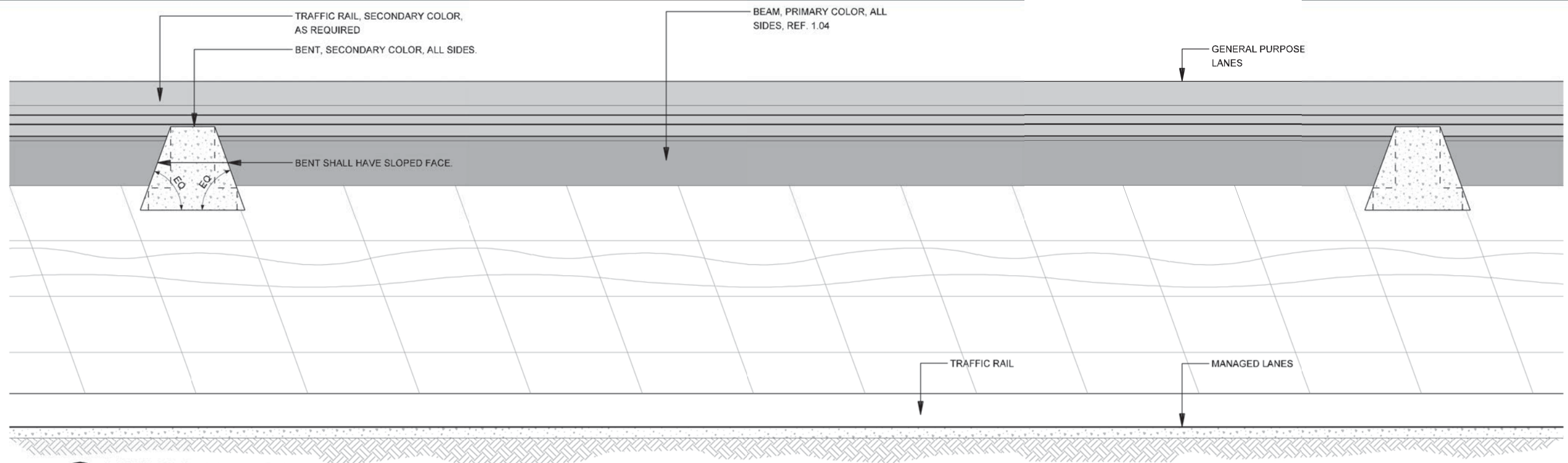
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SHEET CONTENTS:  
 BRIDGE AESTHETICS

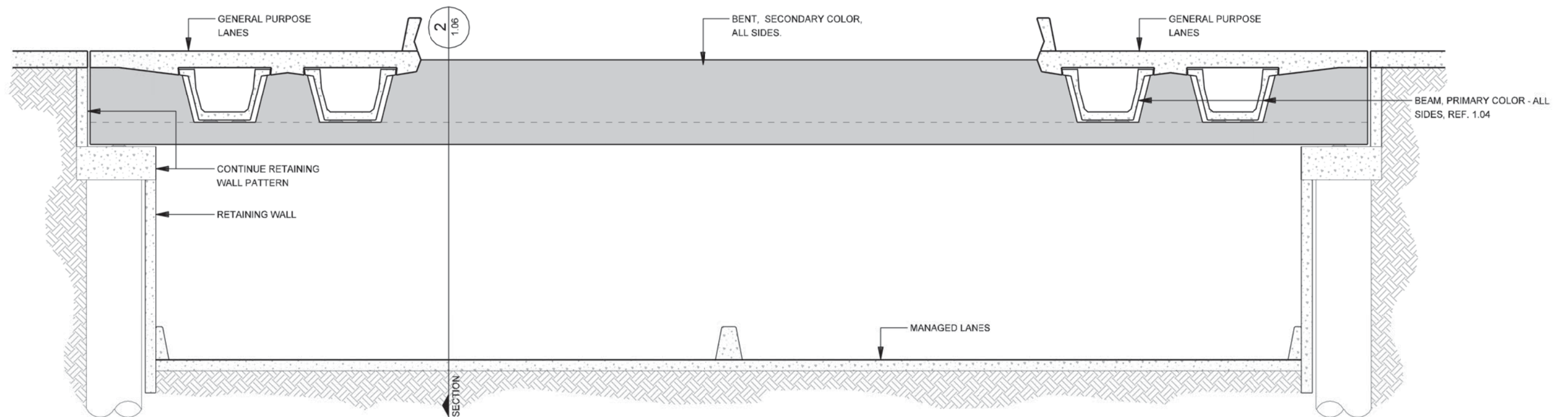
ATTACHMENT:  
 15-1A

SHEET NUMBER:  
**1.05**





2 U-WALL ELEVATION  
SCALE: 1"=10'-0"



1 U-WALL - ELEVATION  
SCALE: 1"=10'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

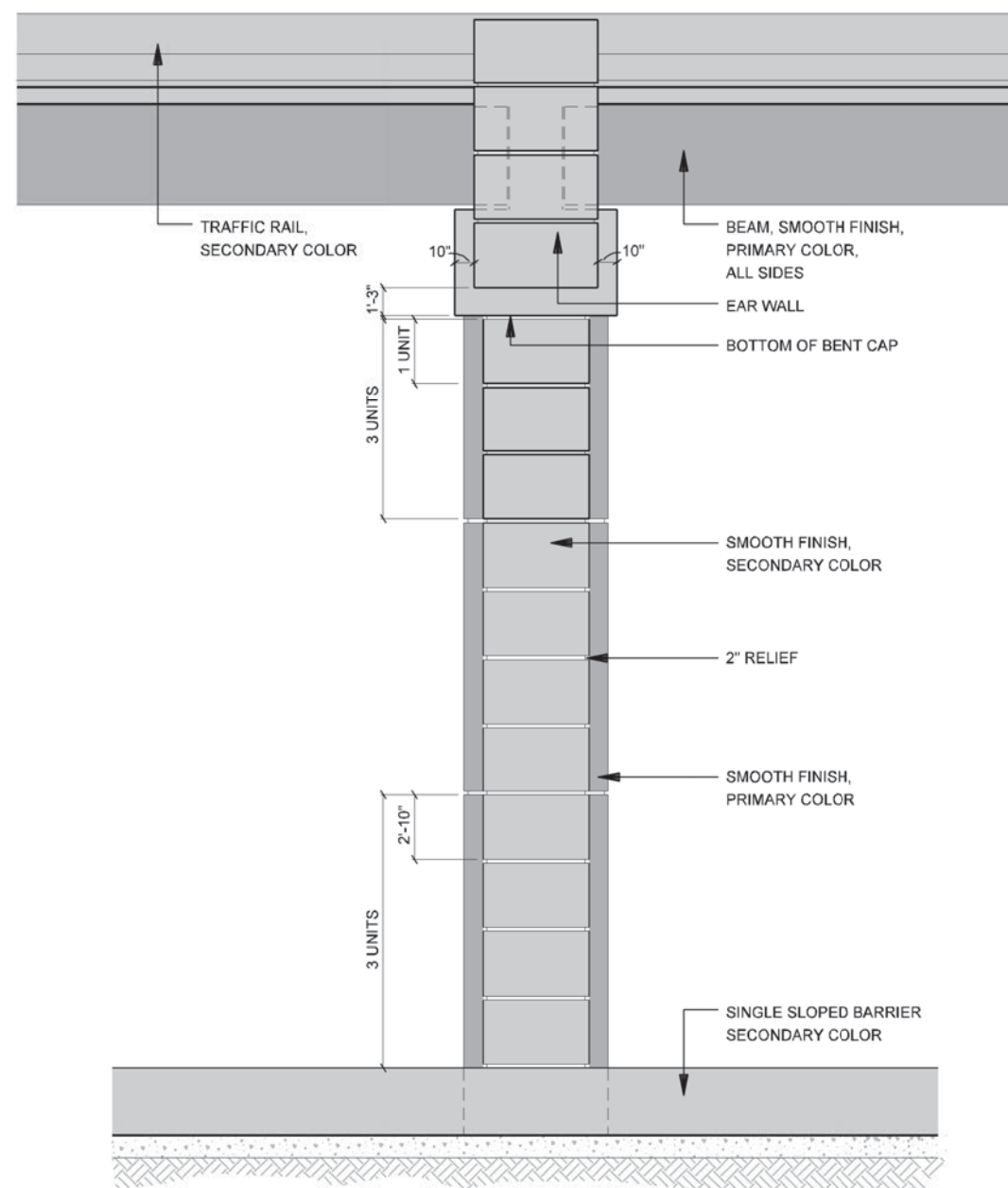
SCALE:  
AS NOTED

SHEET CONTENTS:  
BRIDGE AESTHETICS

ATTACHMENT:  
15-1A

SHEET NUMBER:  
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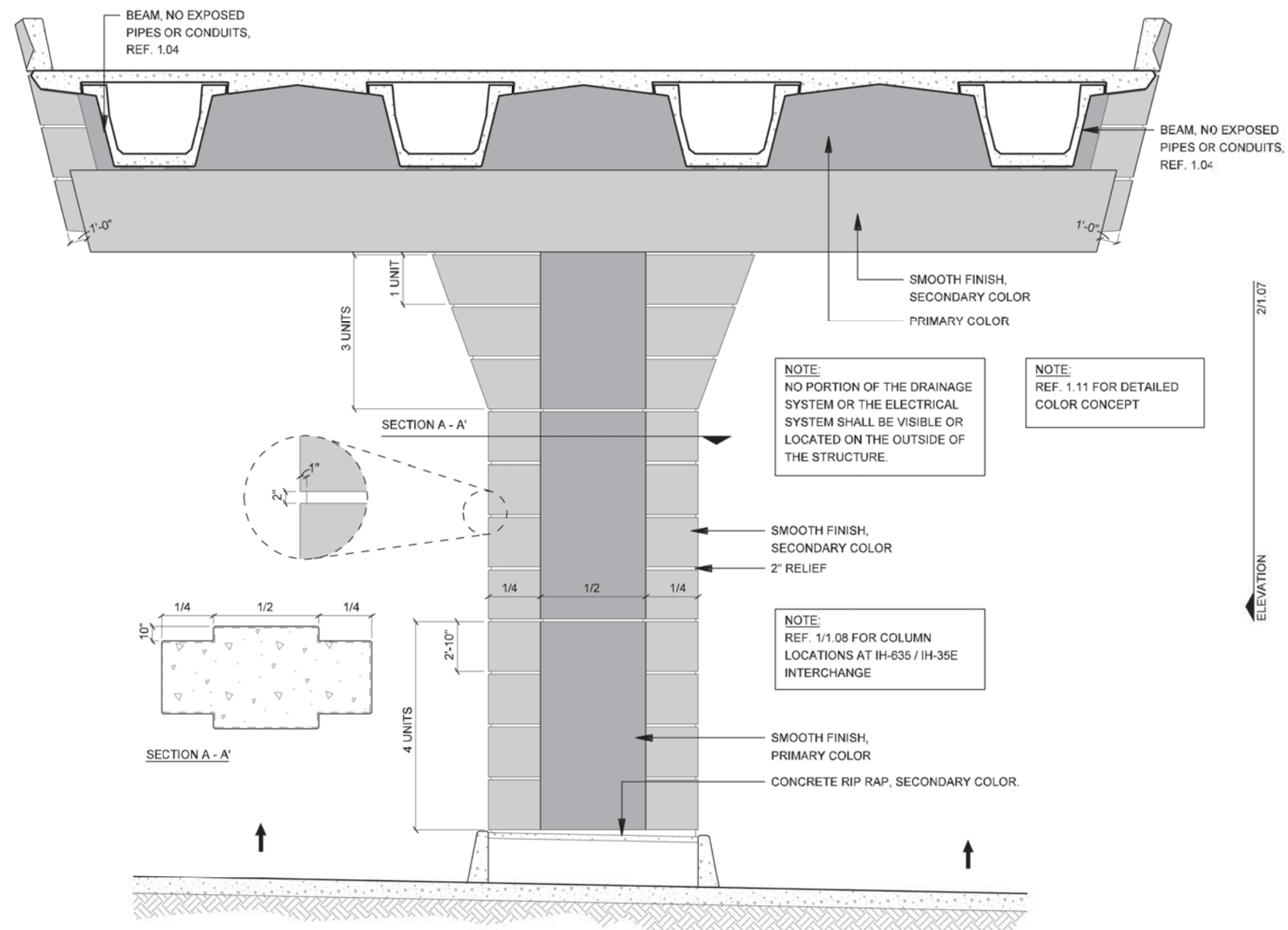




ELEVATION - SIDE VIEW  
IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE

2

SCALE: 1/8"=1'-0"



ELEVATION - FRONT VIEW  
IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE

1

SCALE: 1/8"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

BRIDGE AESTHETICS

ATTACHMENT:

15-1A

SHEET NUMBER:

1.07





2



①

NOTE:  
IH-35E COLUMNS START AT RAMP CONDITION FROM  
IH-635. RAMP CONDITION SHOWN REPRESENTS  
POTENTIAL BUILD OUT OF INTERCHANGE. REF  
ENGINEERING SCHEMATIC

IH635 MANAGED  
LANES PROJECT

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007

SCALE:  
AS NOTED

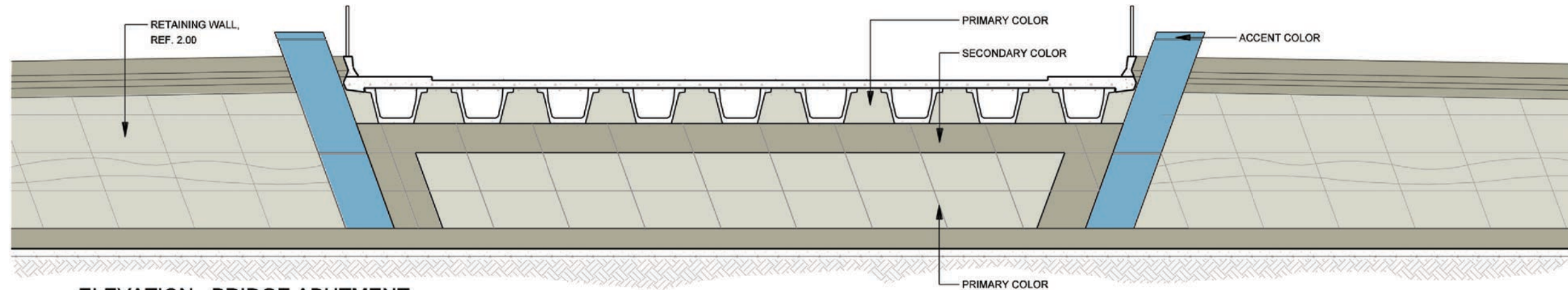
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BRIDGE AESTHETICS

ATTACHMENT:	15-1A
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SHEET NUMBER:  
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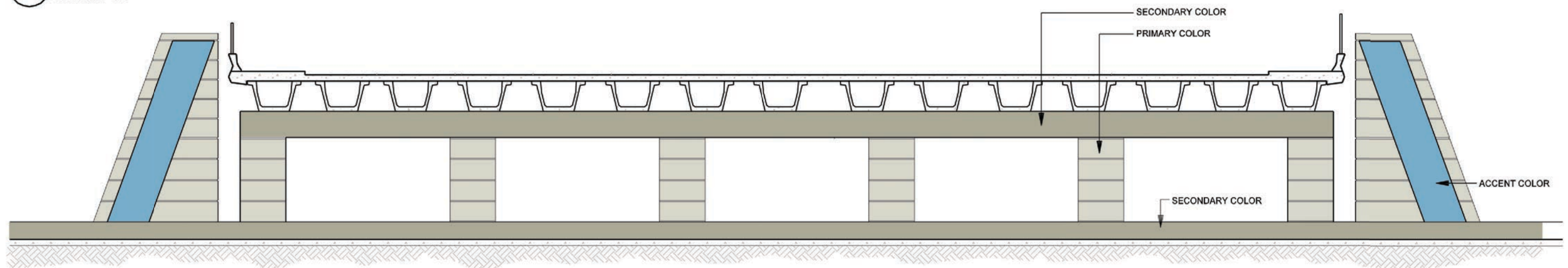




**ELEVATION - BRIDGE ABUTMENT  
CROSS STREET UNDERPASS - COLOR CONCEPT**

3

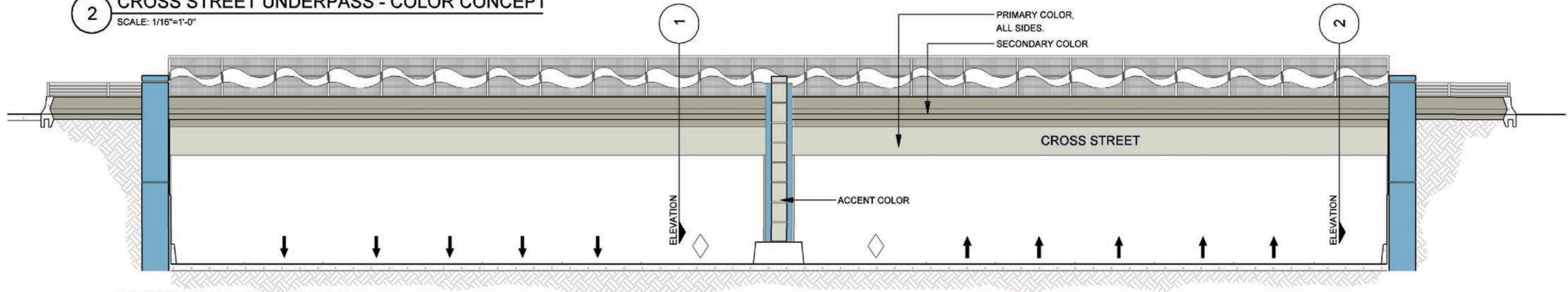
SCALE: 1/16"=1'-0"



**BENT ELEVATION  
CROSS STREET UNDERPASS - COLOR CONCEPT**

2

SCALE: 1/16"=1'-0"

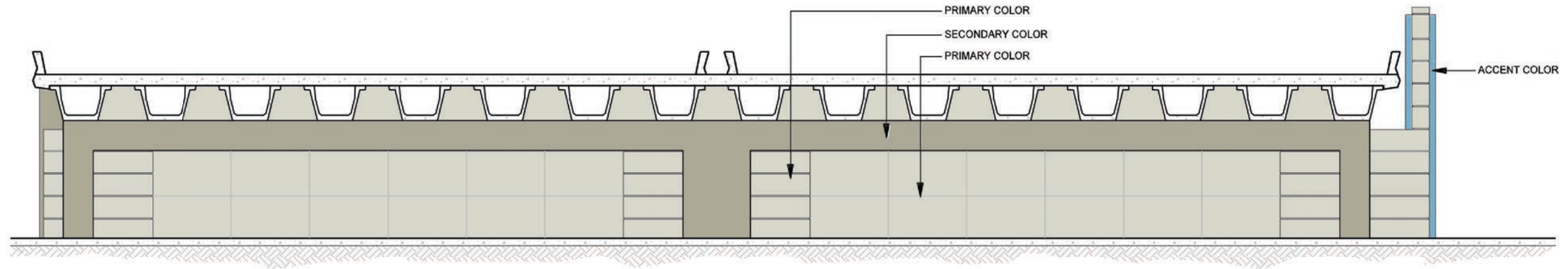


**ELEVATION - FRONT VIEW  
CROSS STREET UNDERPASS - COLOR CONCEPT**

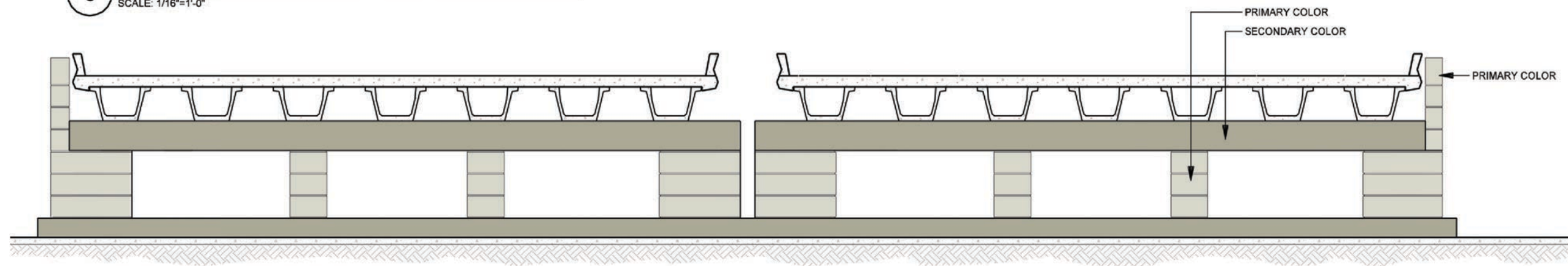
1

SCALE: 1/16"=1'-0"

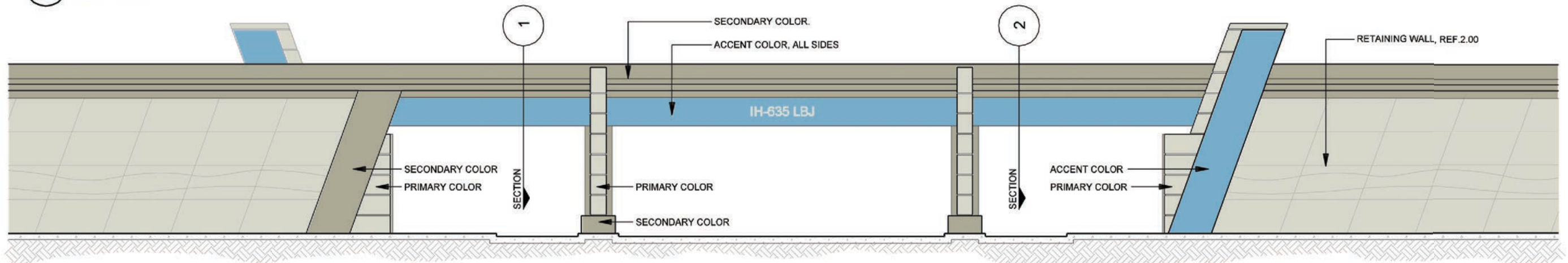




3  
ELEVATION - BRIDGE ABUTMENT  
CROSS STREET OVERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"

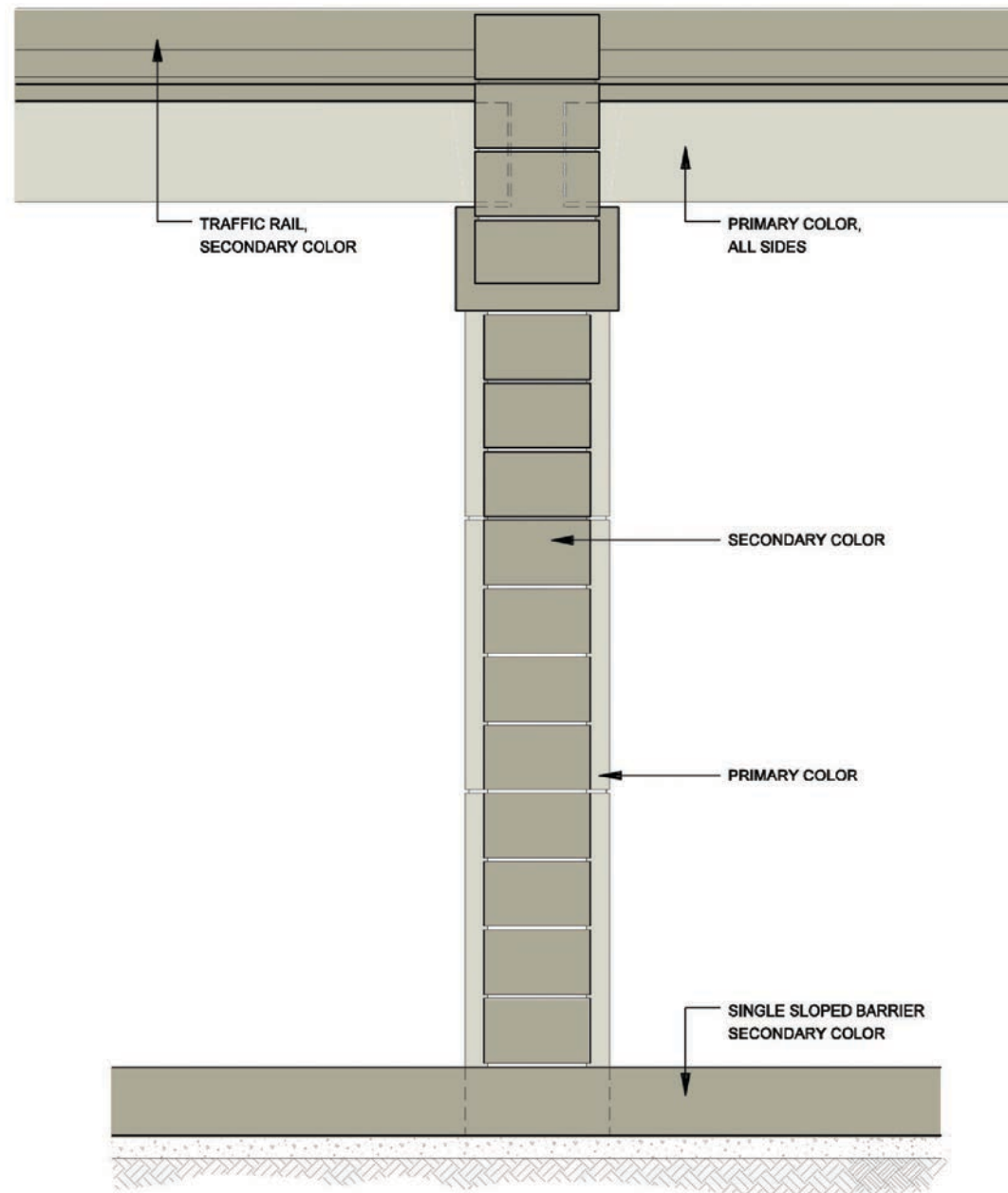


2  
ELEVATION - BENT ELEVATION  
CROSS STREET OVERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"

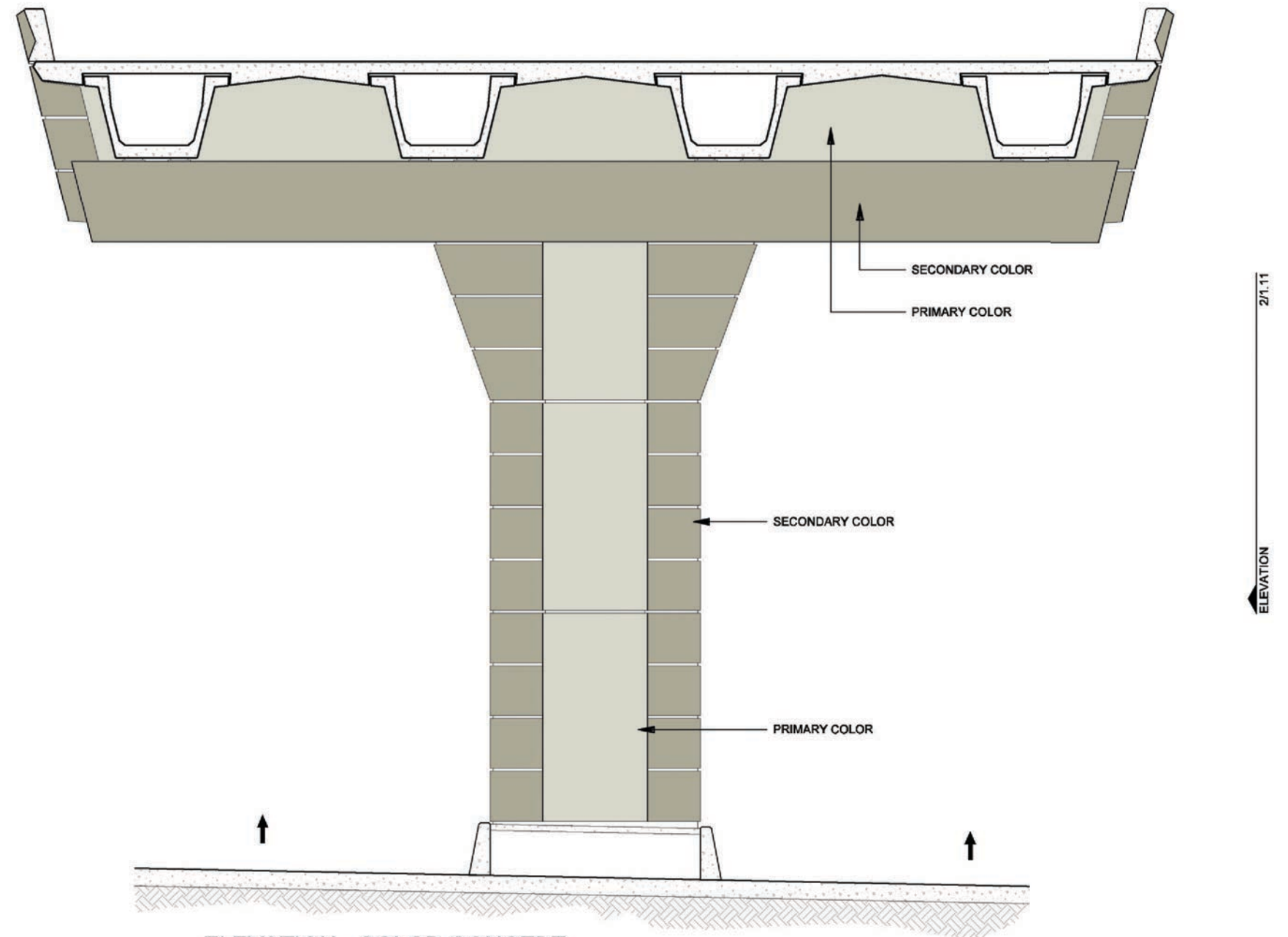


1  
ELEVATION - FRONT VIEW  
CROSS STREET OVERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"



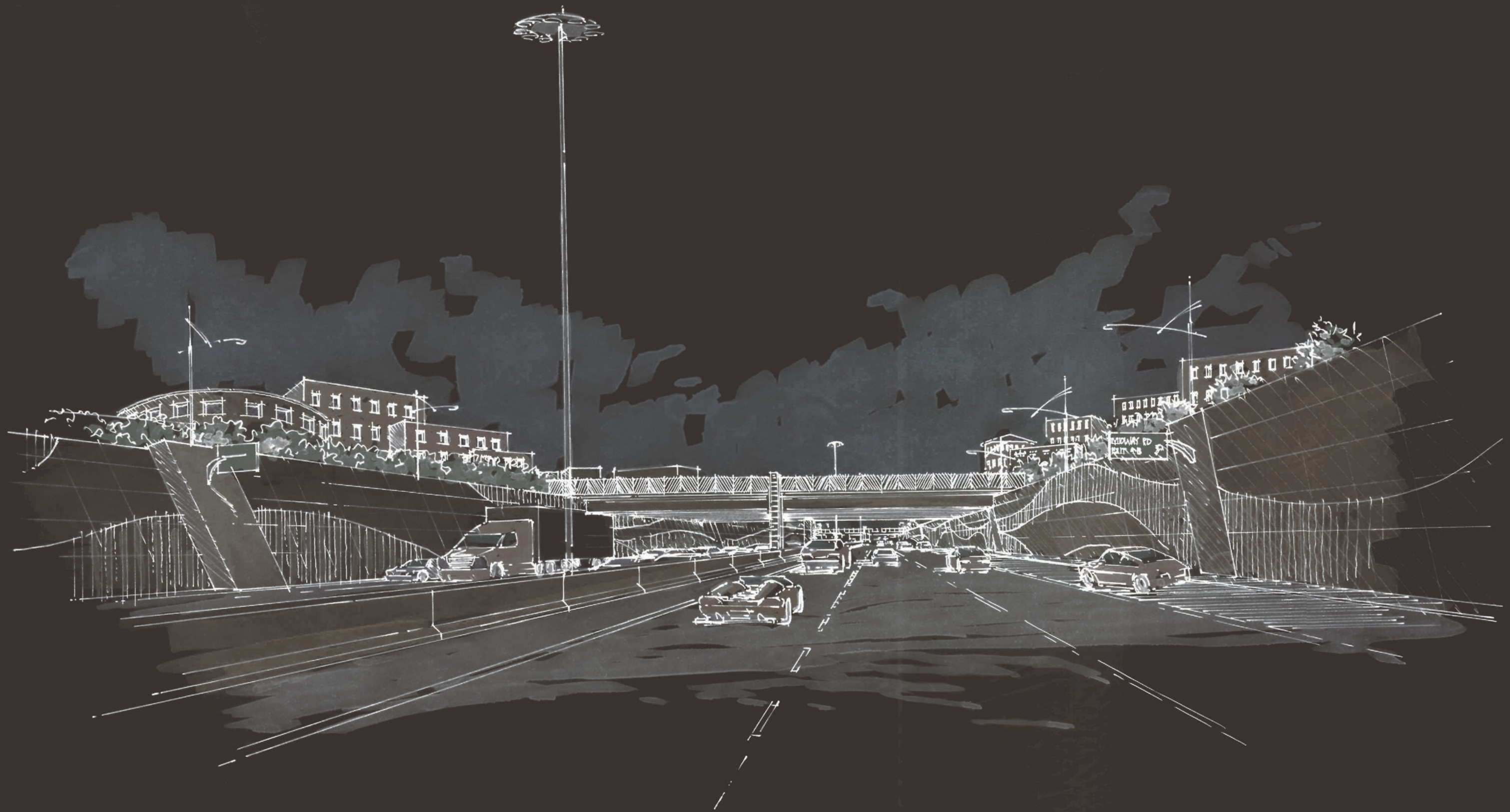


2 ELEVATION - COLOR CONCEPT  
IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE  
SCALE: 1/8"=1'-0"



1 ELEVATION - COLOR CONCEPT  
IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE  
SCALE: 1/8"=1'-0"



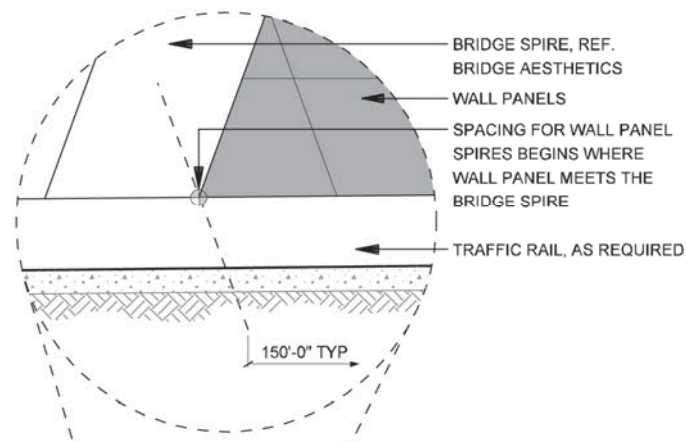


IH-635 RETAINING WALLS

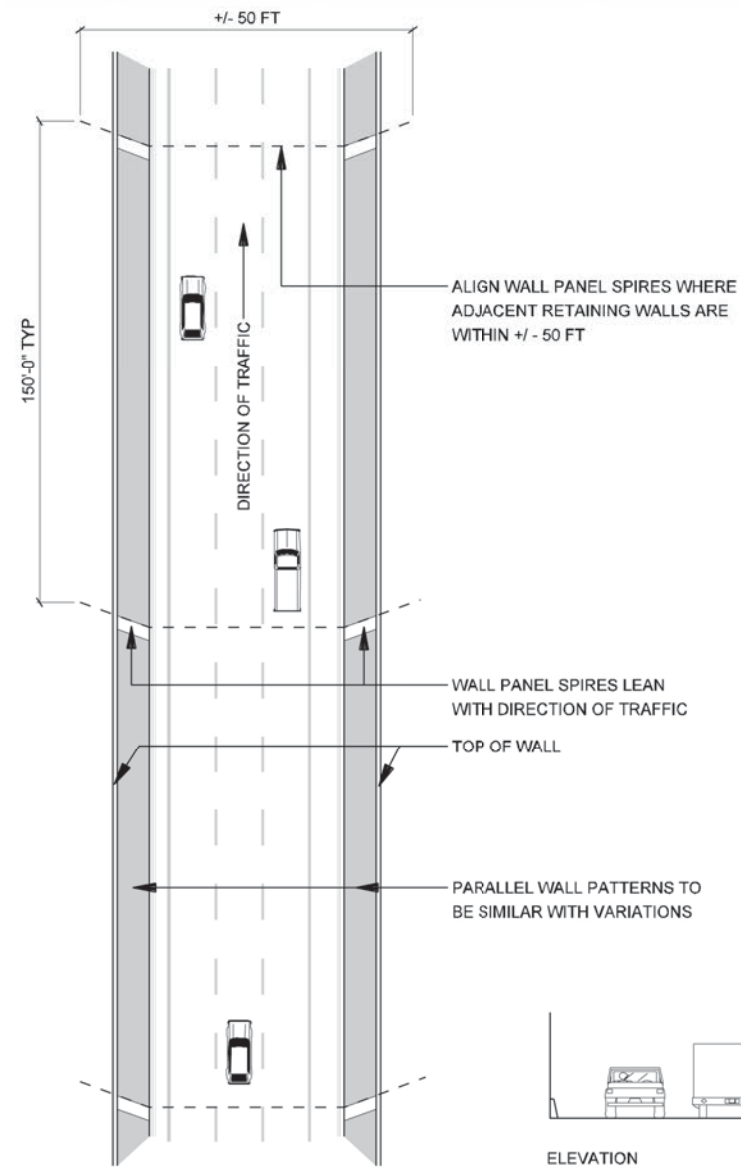


# NOTES:

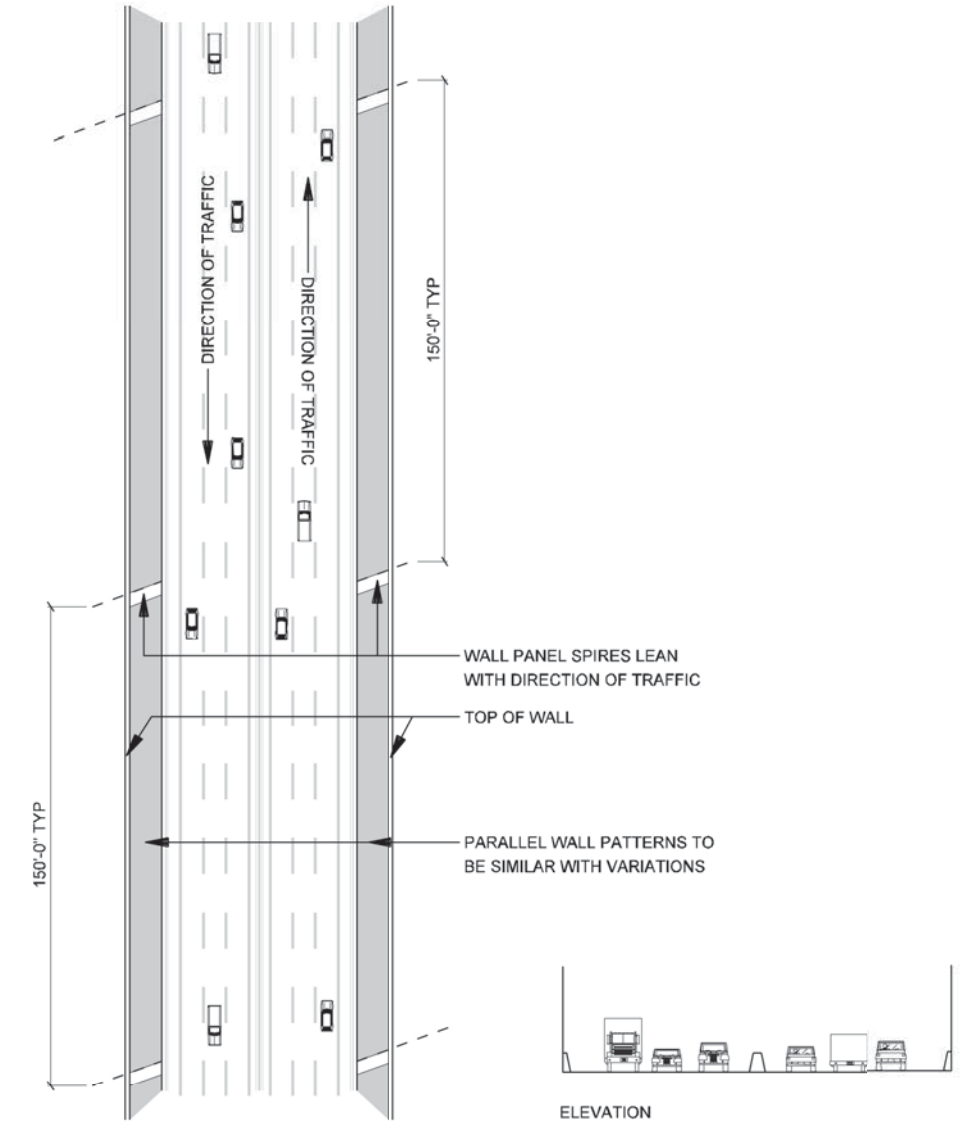
- PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:
  - DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE
  - DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGARD PANELS SYTEMS
  - PANEL DESIGNED AT 20 DEGREES SKEWED
- DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
- DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.



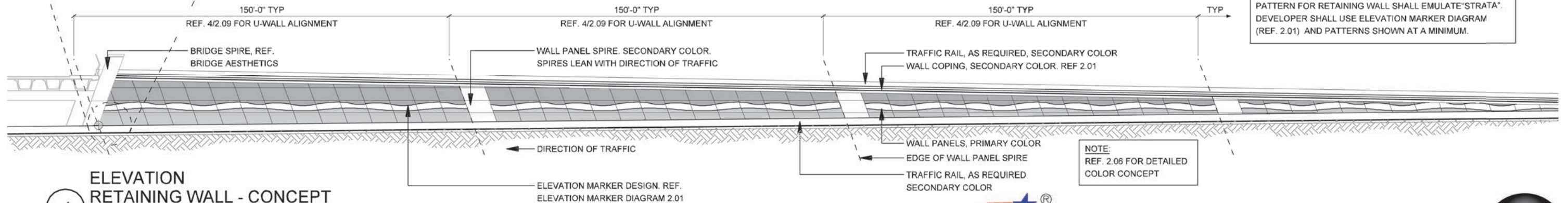
1  
ELEVATION  
RETAINING WALL - CONCEPT  
SCALE: 1"=40'-0"



3  
BIRD'S EYE PLAN  
RETAINING WALL ALIGNMENT - ALL WALLS  
SCALE: N.T.S.



2  
BIRD'S EYE PLAN  
RETAINING WALL ALIGNMENT - ALL WALLS  
SCALE: N.T.S.



NOTE:  
PATTERN FOR RETAINING WALL SHALL EMULATE "STRATA".  
DEVELOPER SHALL USE ELEVATION MARKER DIAGRAM  
(REF. 2.01) AND PATTERNS SHOWN AT A MINIMUM.

NOTE:  
REF. 2.06 FOR DETAILED  
COLOR CONCEPT



IH635 MANAGED  
LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING  
WALLS

ATTACHMENT:

15-1A

SHEET NUMBER:

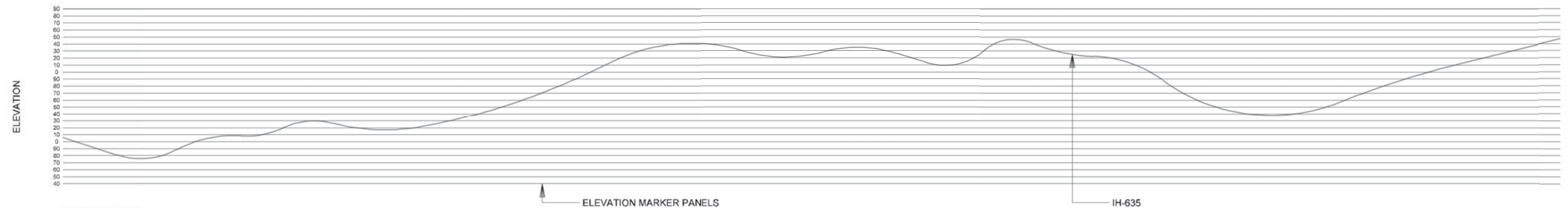
2.00



IH-35E

DALLAS NORTH TOLLWAY

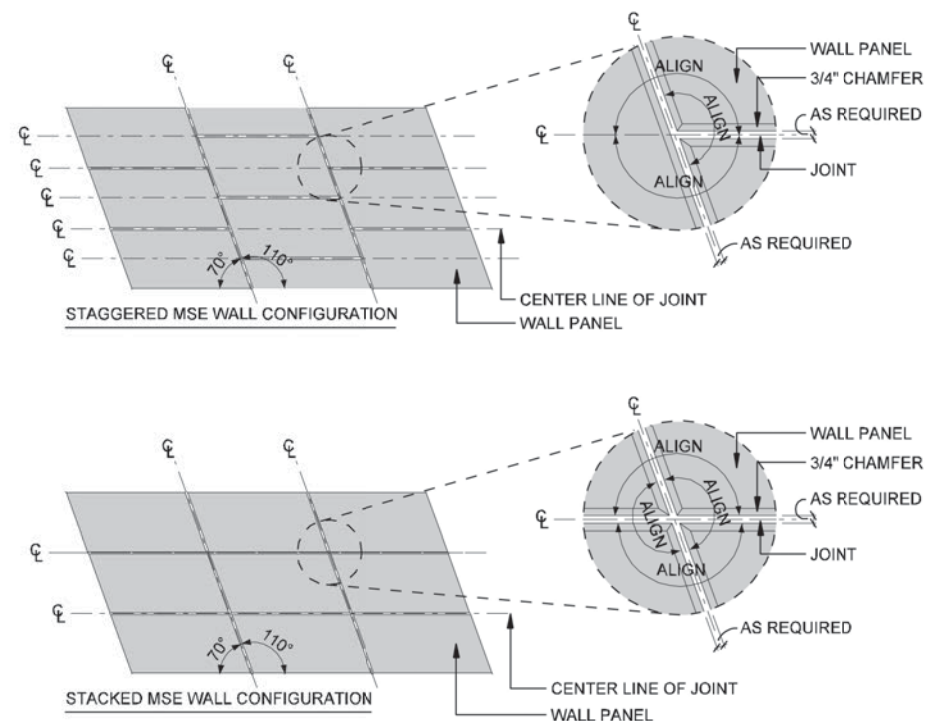
US-75



### SECTION ELEVATION MARKER DIAGRAM

3

SCALE: N.T.S.

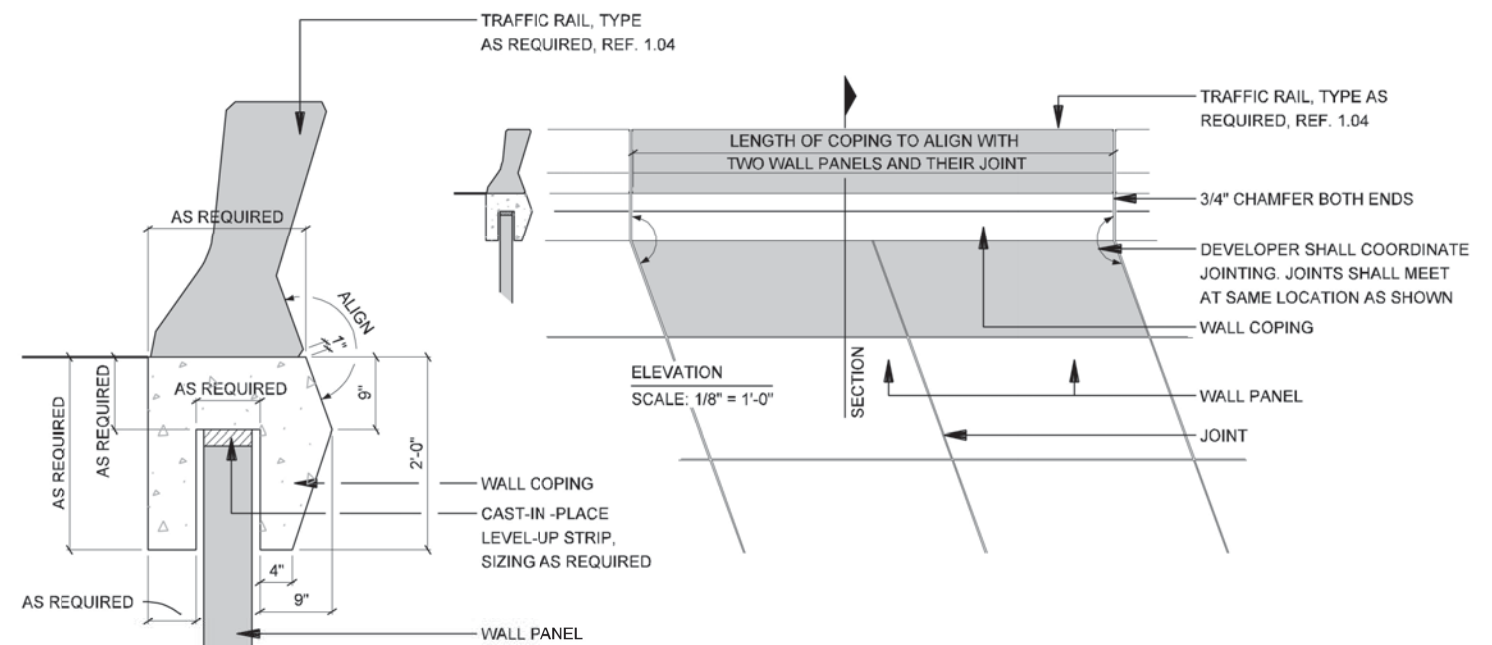


### ELEVATION WALL PANEL CONFIGURATION

2

SCALE: 1/16"=1'-0"

NOTE:  
DEVELOPER SHALL CHOOSE  
ONE CONFIGURATION TYPE  
FOR CORRIDOR



### SECTION WALL COPING, TYP.

1

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

#### NOTES:

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  - DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE
  - DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS
  - PANEL DESIGNED AT 20 DEGREES SKEWED
- DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
- DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.

 **Texas Department of Transportation**  
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LANES PROJECT**



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING  
WALLS

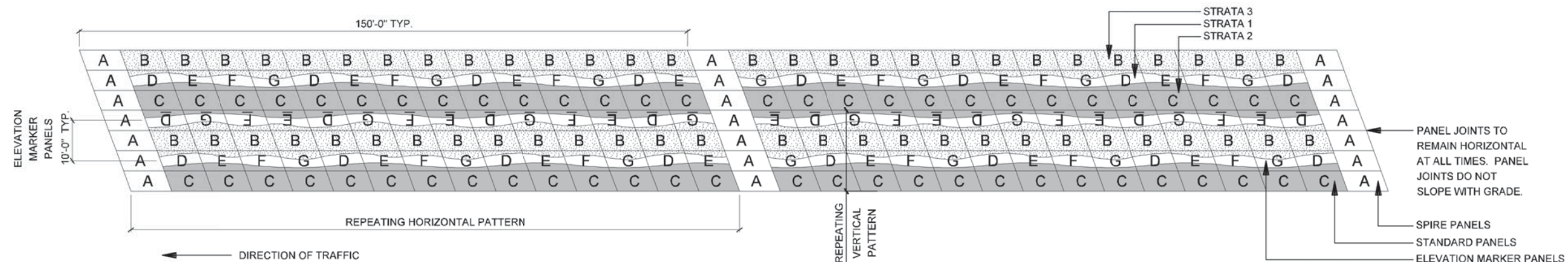
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15-1A

SHEET NUMBER:

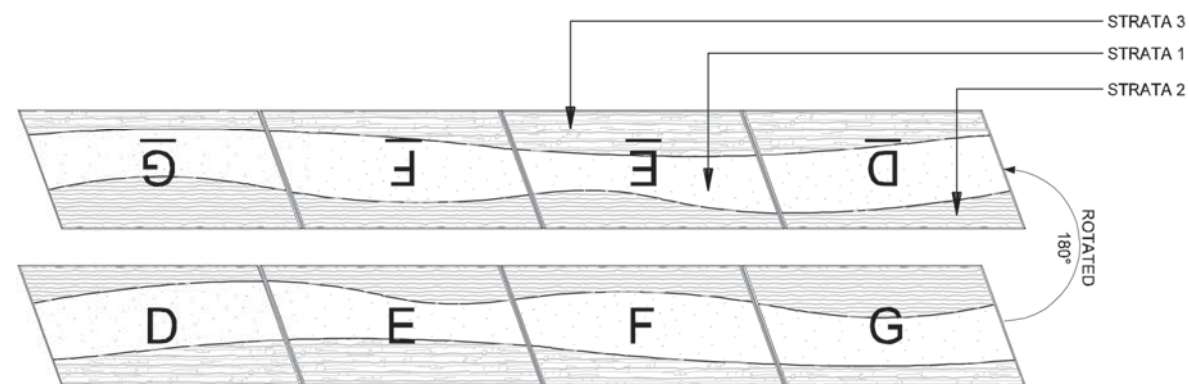
2.01





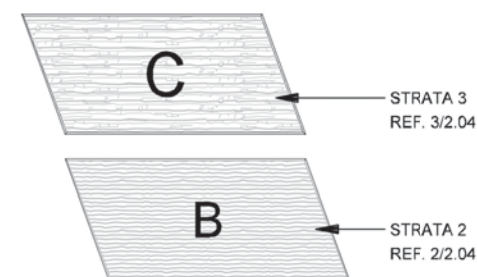
**9 ELEVATION PATTERN CONCEPTS (Stacked MSE wall)**

SCALE: 1"=30'-0"



**3 ELEVATION MARKER PANELS (Stacked Pattern Only)**

SCALE: 1/8"=1'-0"



**2 STANDARD PANELS**

SCALE: 1/8"=1'-0"



**1 SPIRE PANEL**

SCALE: 1/8"=1'-0"

**NOTES:**

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A. DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE  
B. DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS  
C. PANEL DESIGNED AT 20 DEGREES SKEWED
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NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING WALLS

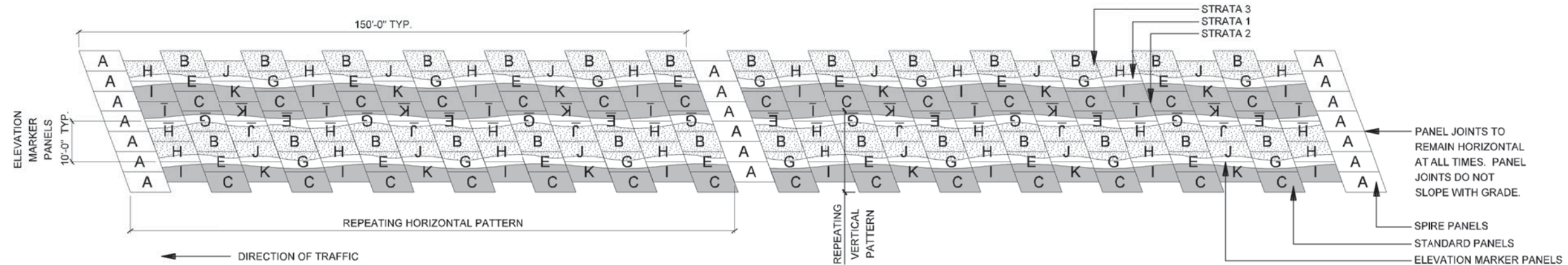
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15-1A

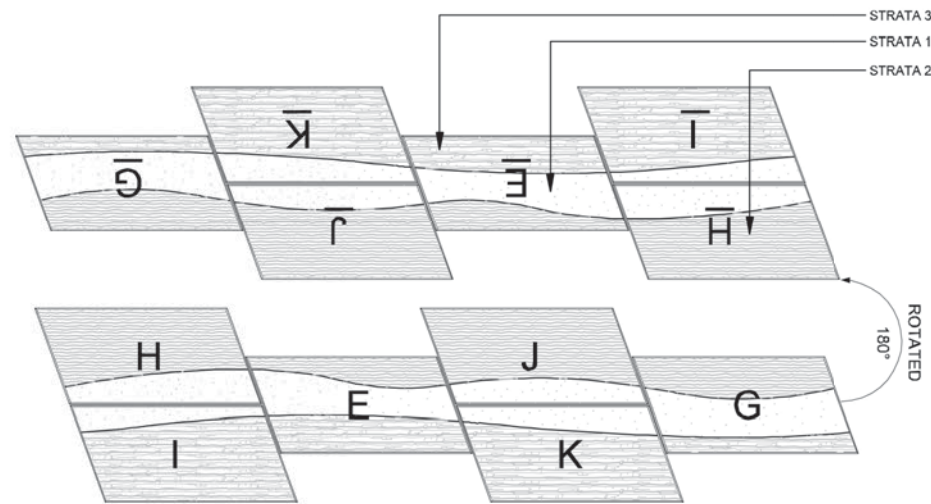
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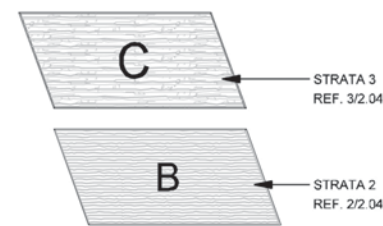




10 ELEVATION PATTERN CONCEPTS (Staggered MSE wall)  
SCALE: 1"=30'-0"



3 ELEVATION MARKER PANELS (Staggered Pattern Only)  
SCALE: 1/8"=1'-0"



2 STANDARD PANELS  
SCALE: 1/8"=1'-0"



1 SPIRE PANEL  
SCALE: 1/8"=1'-0"

**NOTES:**

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A. DESIGN IS BASED ON A 5' x 10' (50 SF). DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE  
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NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

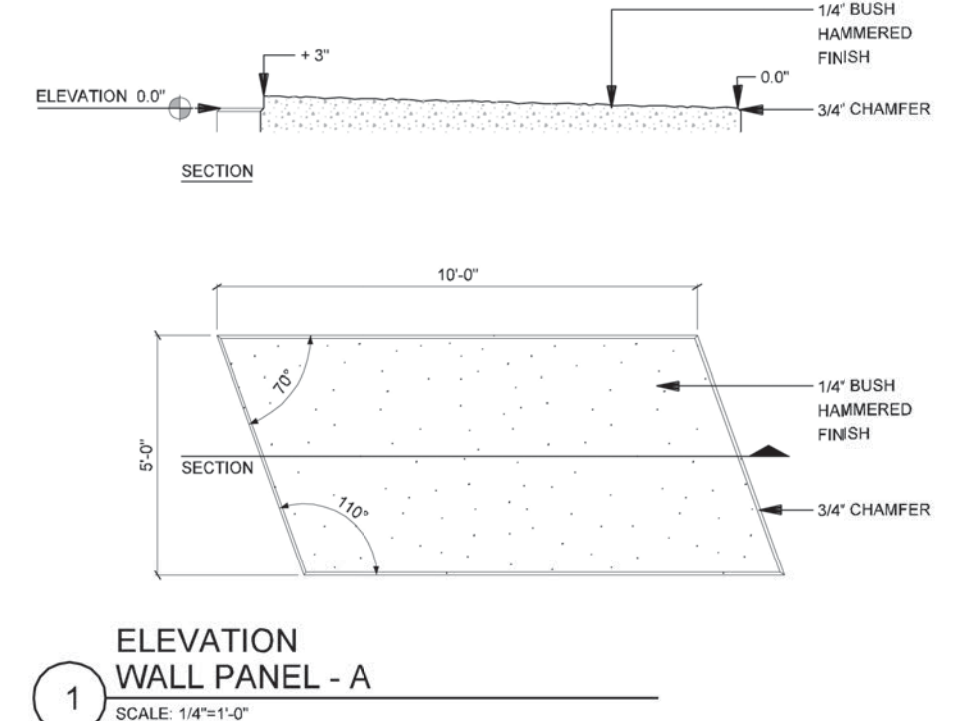
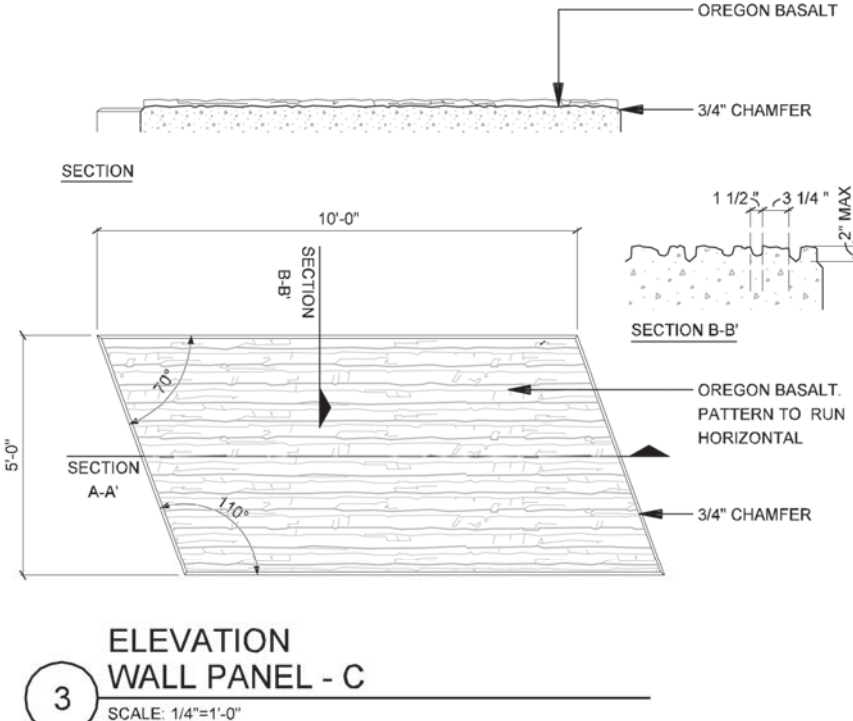
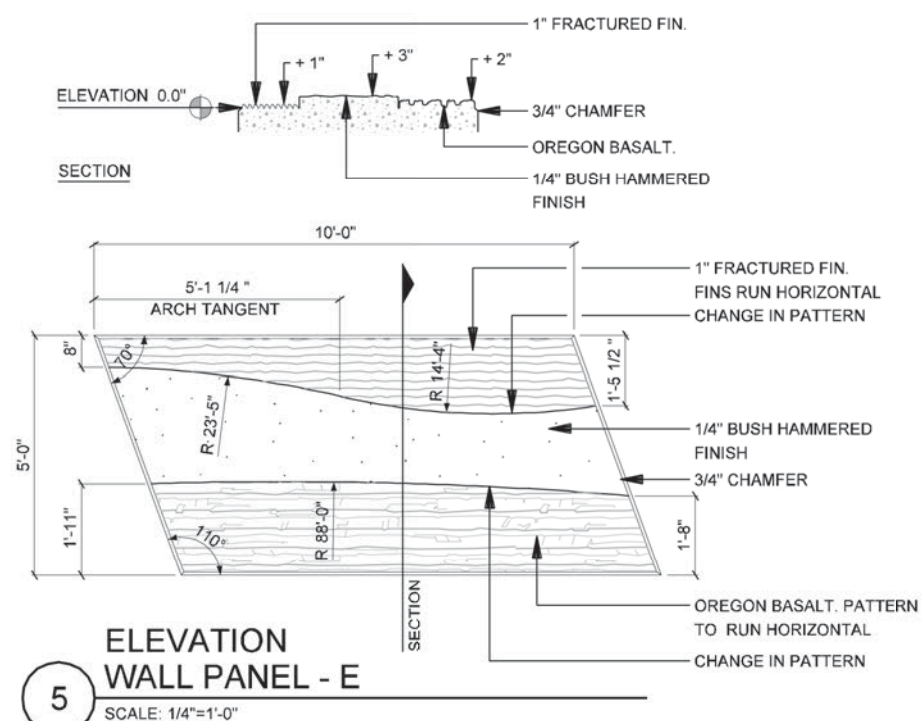
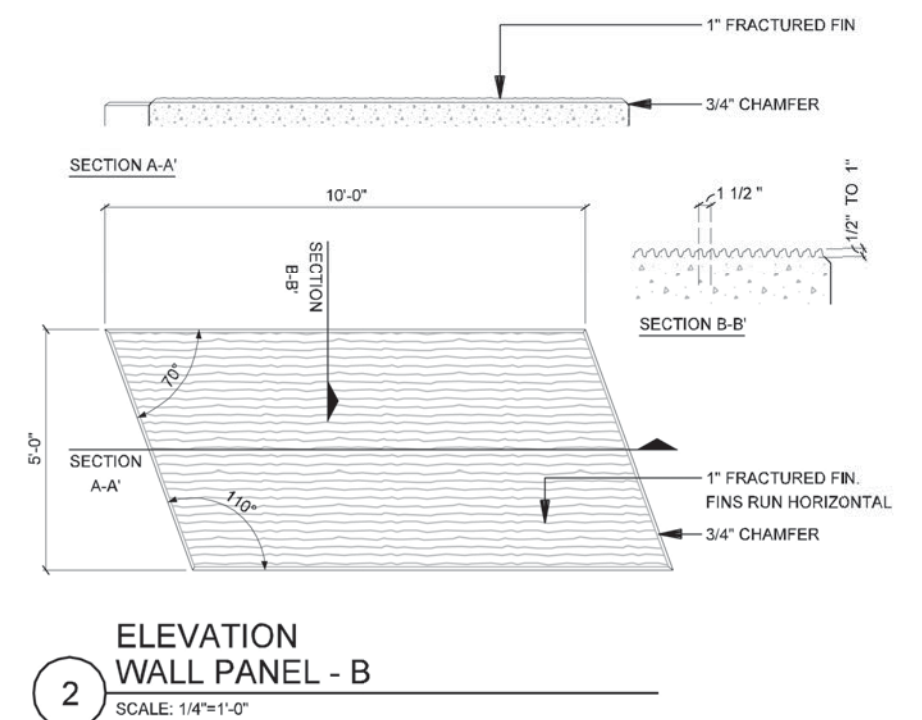
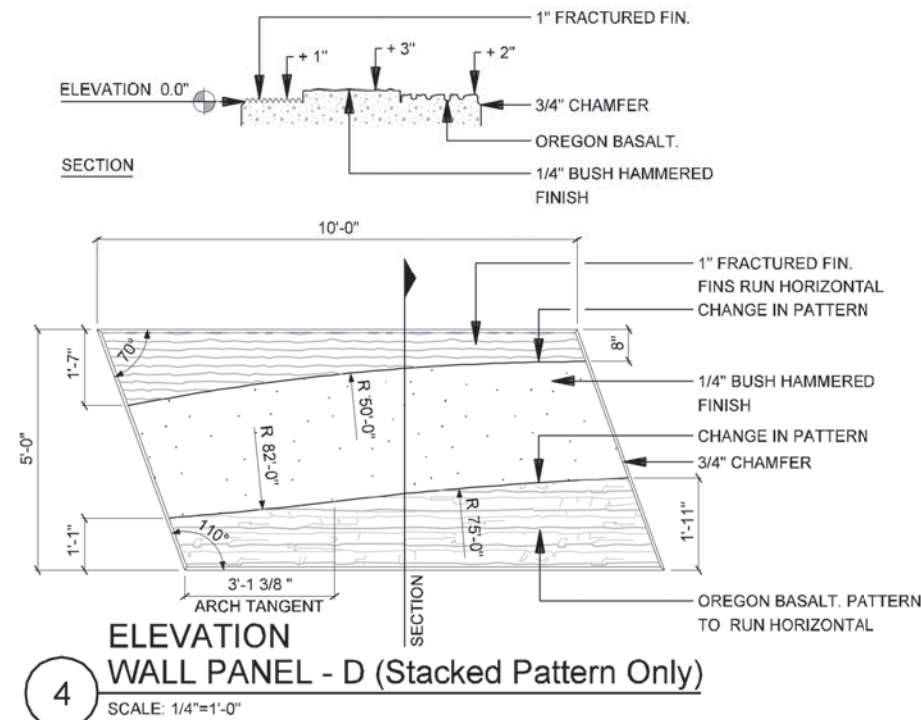
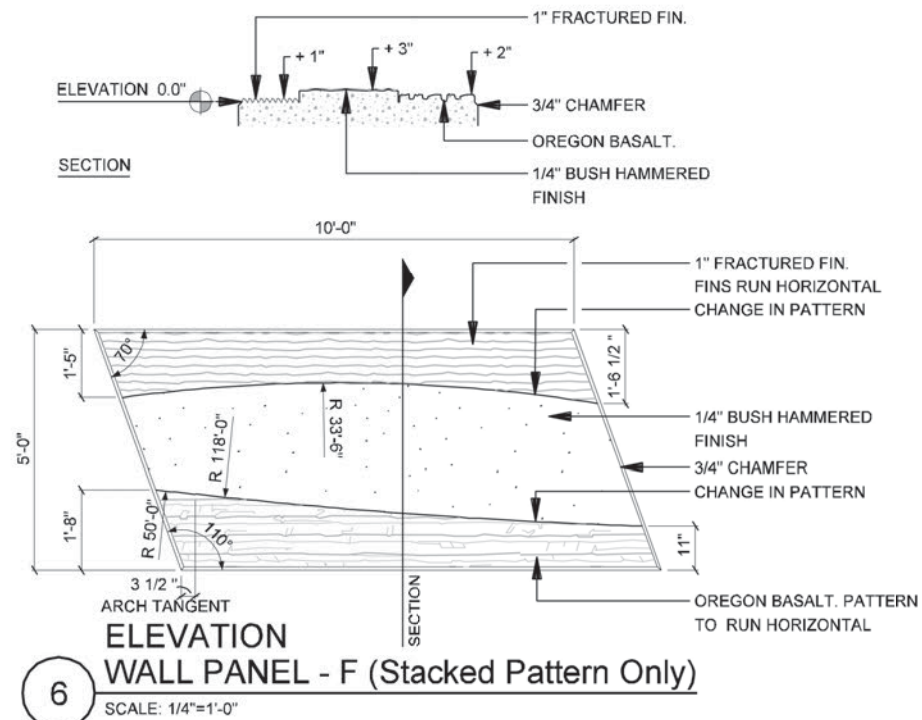
SCALE:  
AS NOTED

SHEET CONTENTS:  
IH-635 RETAINING WALLS

ATTACHMENT:  
15-1A

SHEET NUMBER:  
**2.03**





#### NOTES:

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DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING WALLS

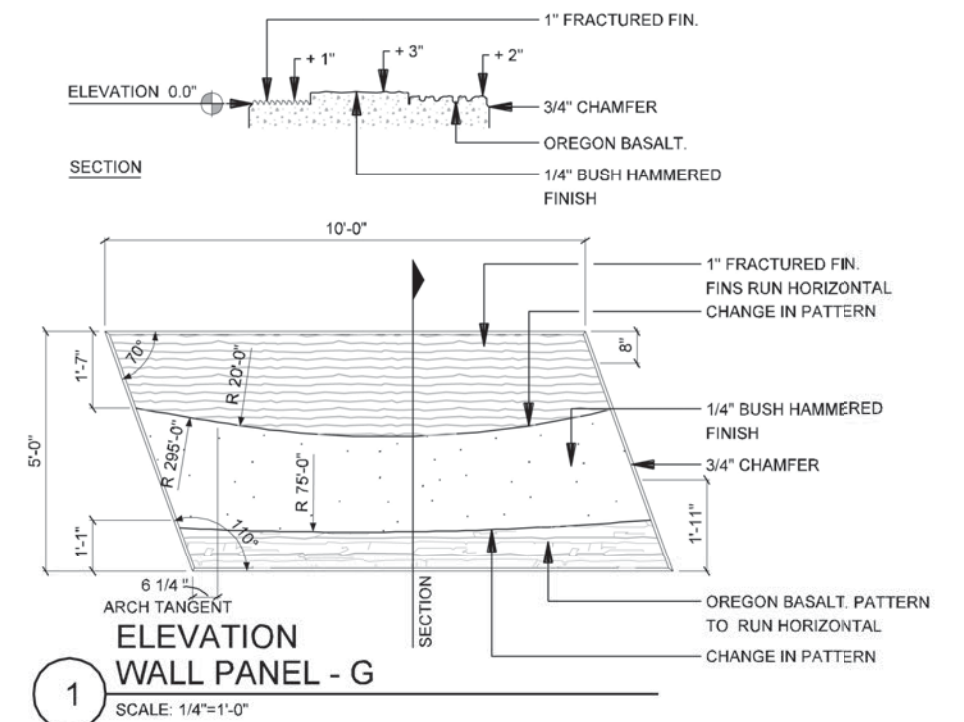
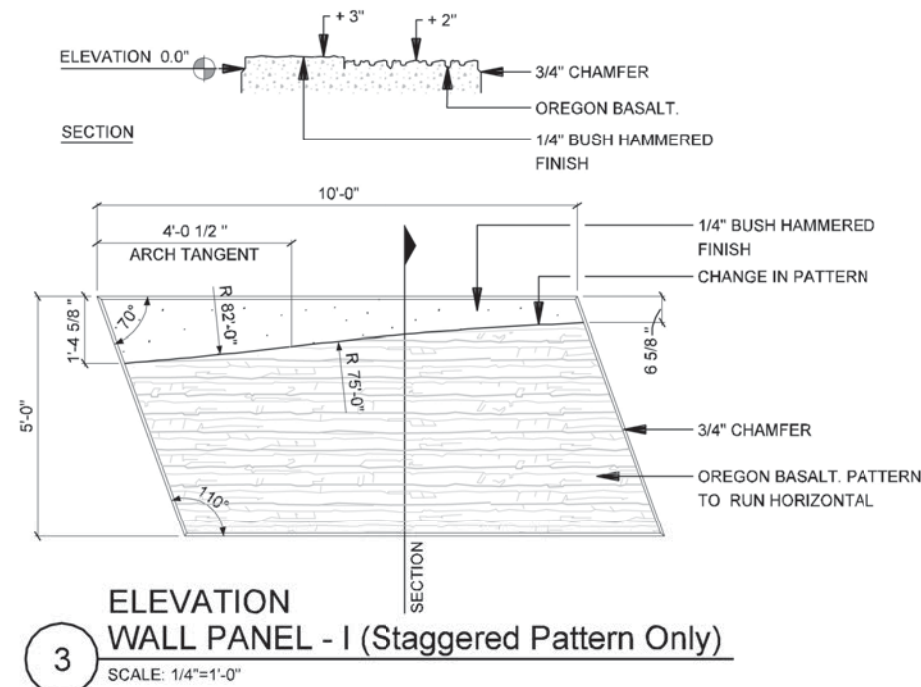
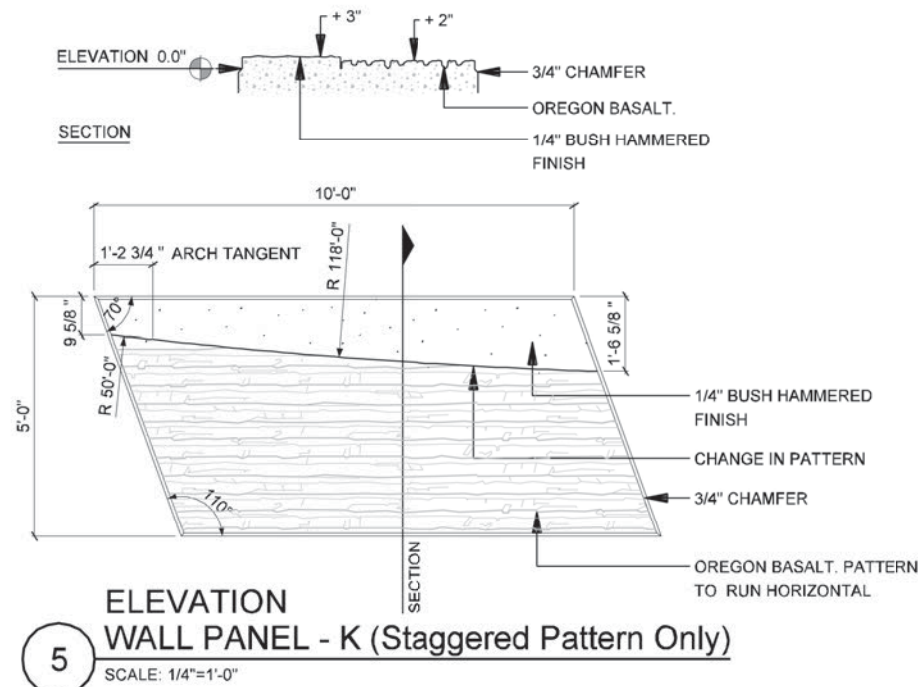
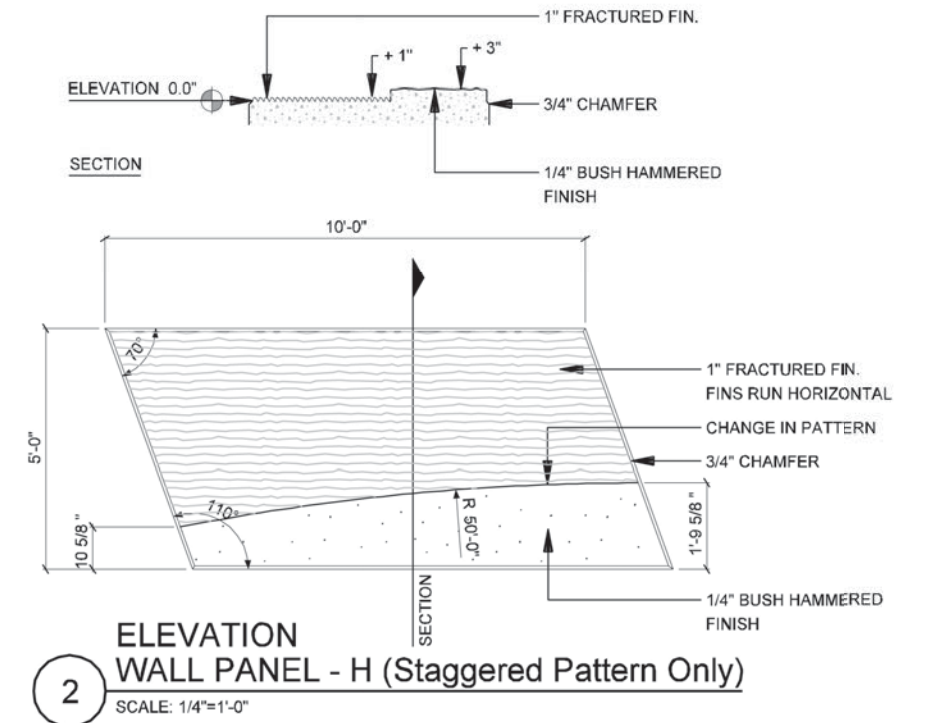
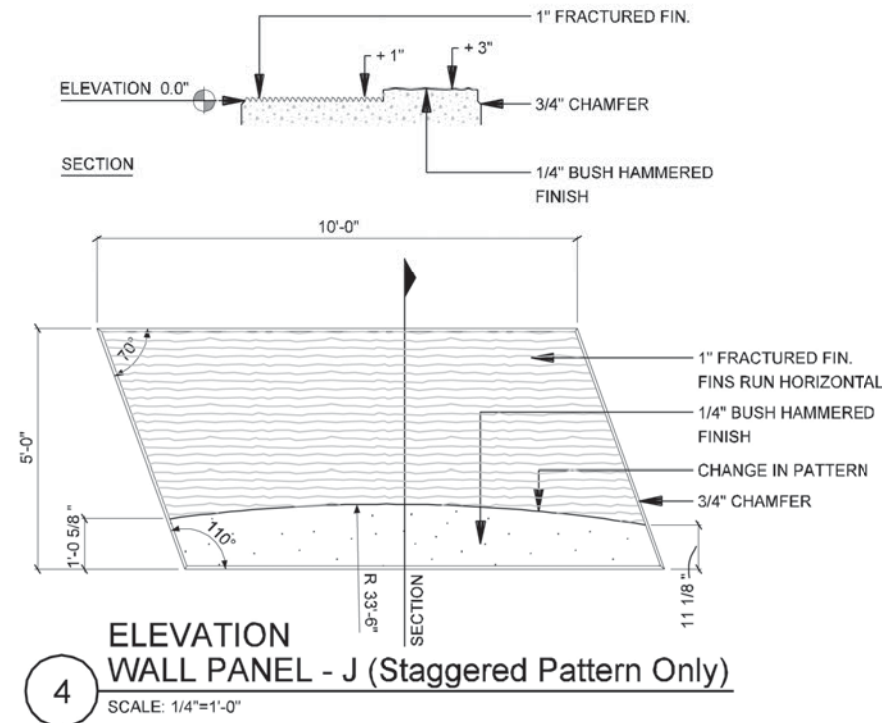
ATTACHMENT:

15-1A

SHEET NUMBER:

2.04





#### NOTES:

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NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING WALLS

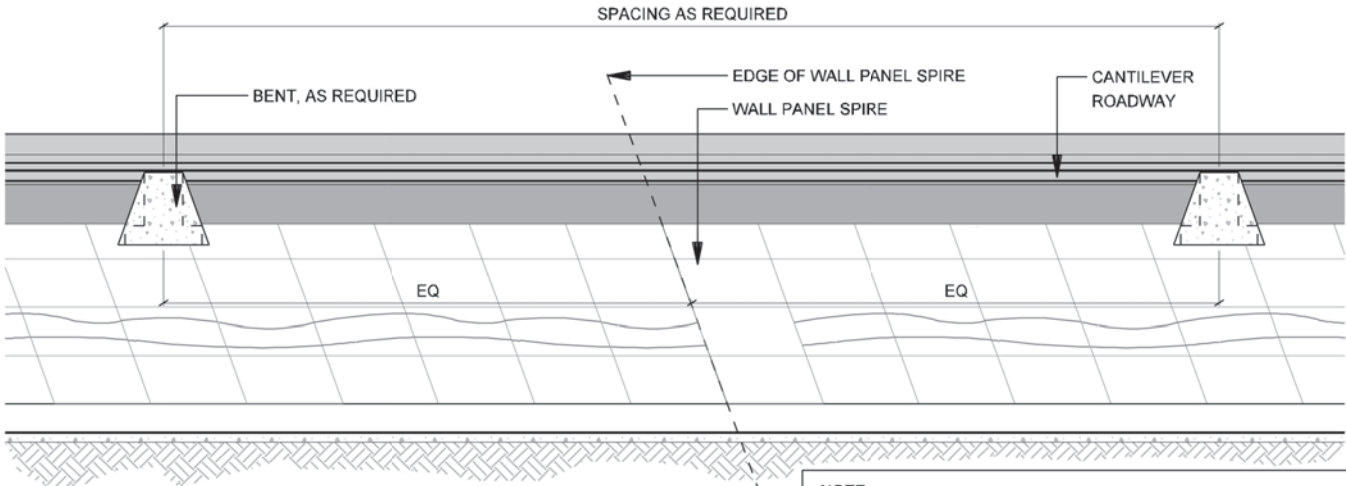
ATTACHMENT:

15-1A

SHEET NUMBER:

2.05





1 U-WALL ELEVATION  
SCALE: 1"=20'-0"

NOTE:  
WALL PANEL SPIRE ALIGNMENT SHALL CONFORM TO DETAIL 1/2.00.  
THE 150'-0" TYPICAL SPACING SHALL GOVERN THE GENERAL  
LOCATION OF THE SPIRE WITH FINE ADJUSTMENTS MADE TO  
INCORPORATE EQUAL SPACING BETWEEN BENTS

NOTES:

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LANES PROJECT



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DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING  
WALLS

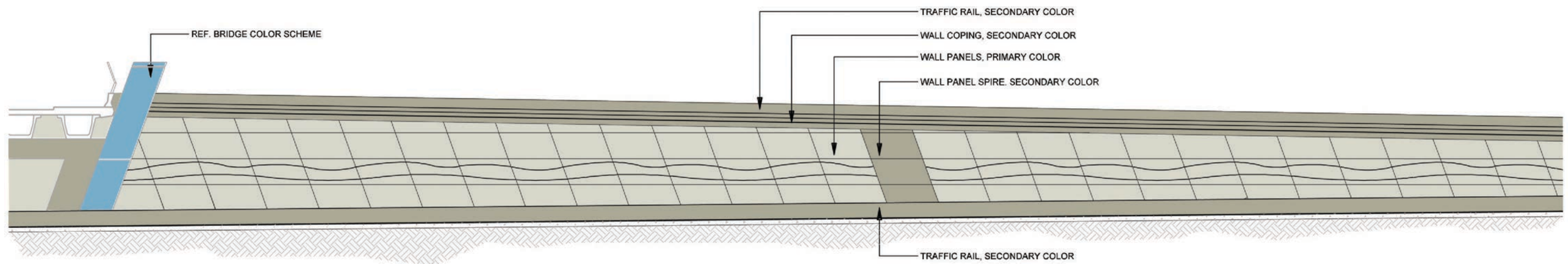
ATTACHMENT:

15-1A

SHEET NUMBER:

2.06





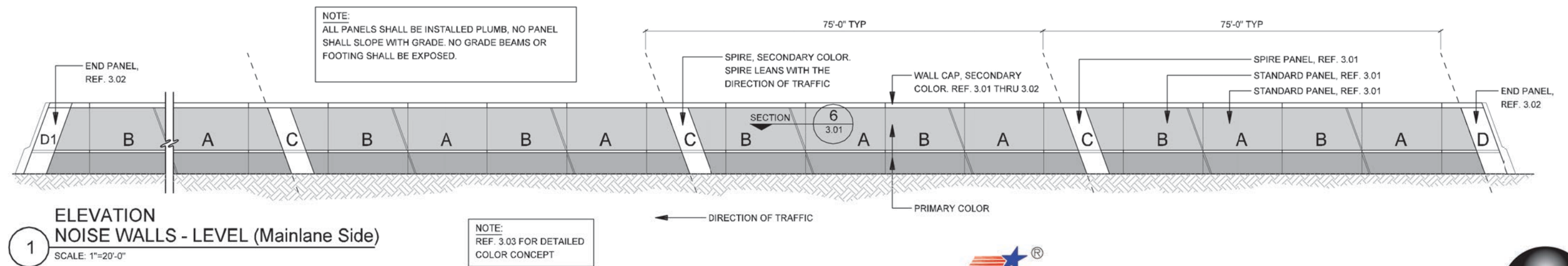
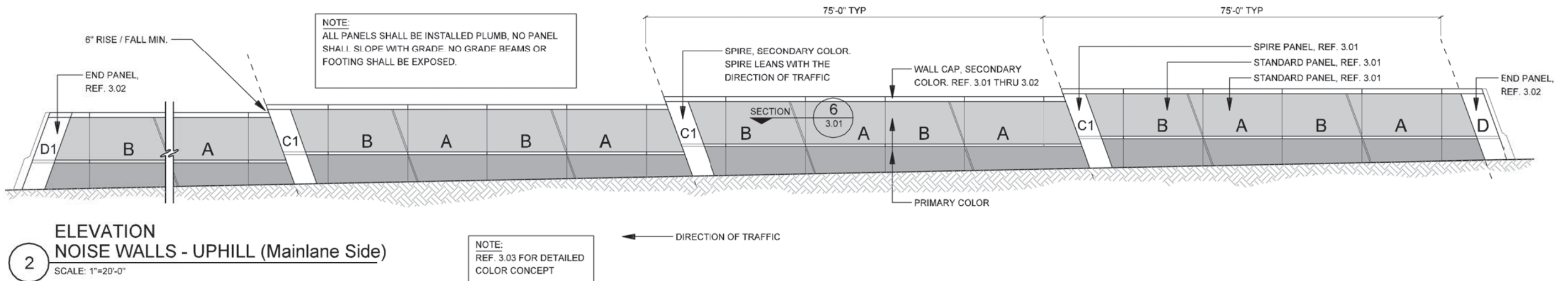
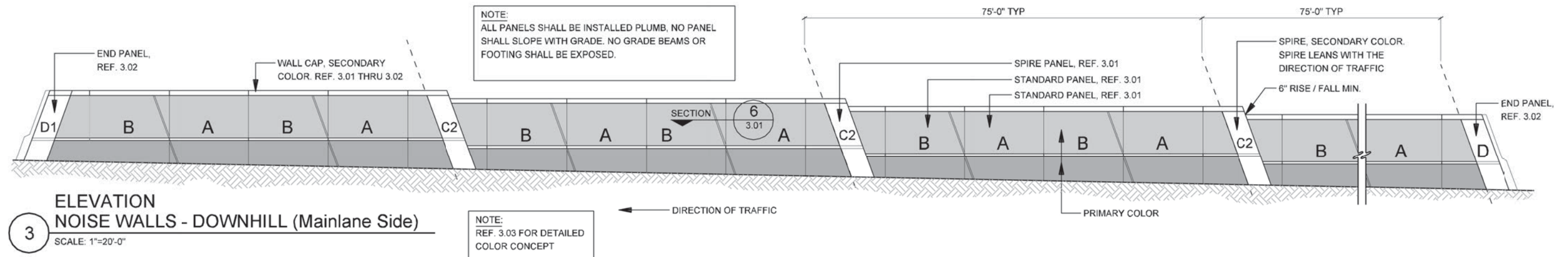
1  
**ELEVATION  
RETAINING WALL - COLOR CONCEPT**  
 SCALE: 1"=20'-0"



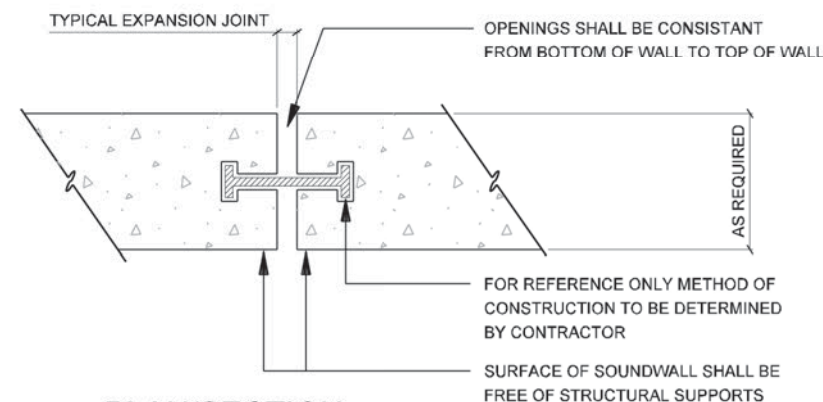


NOISE WALLS

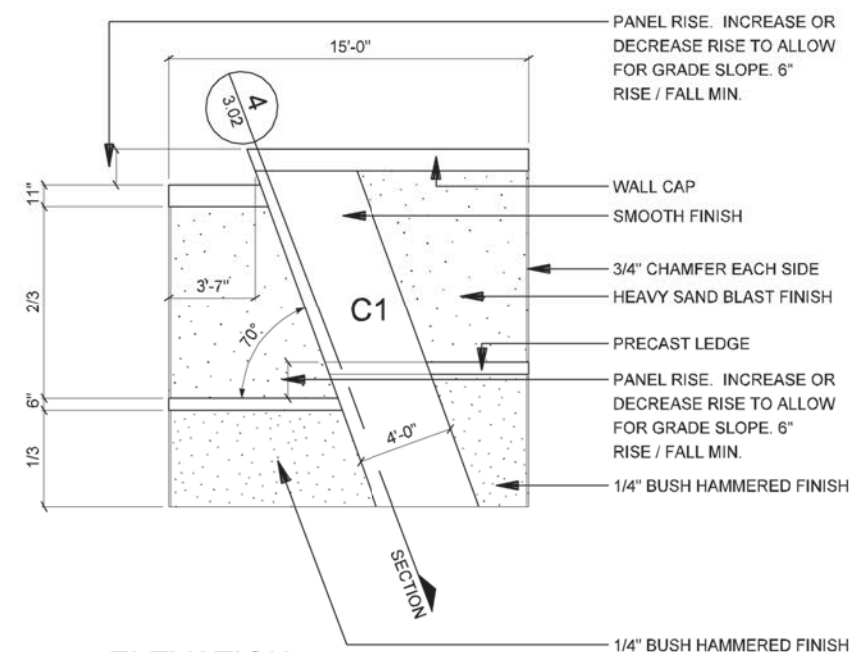




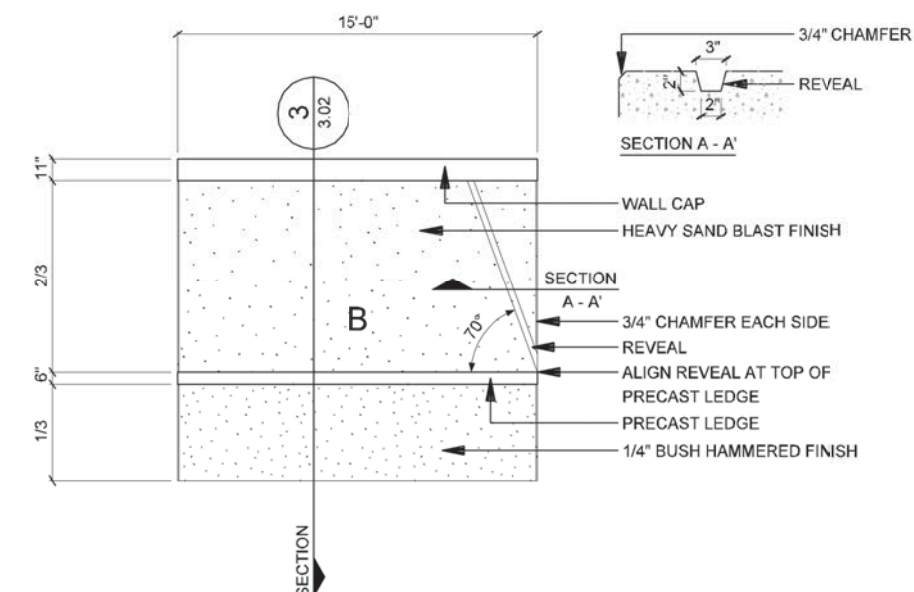




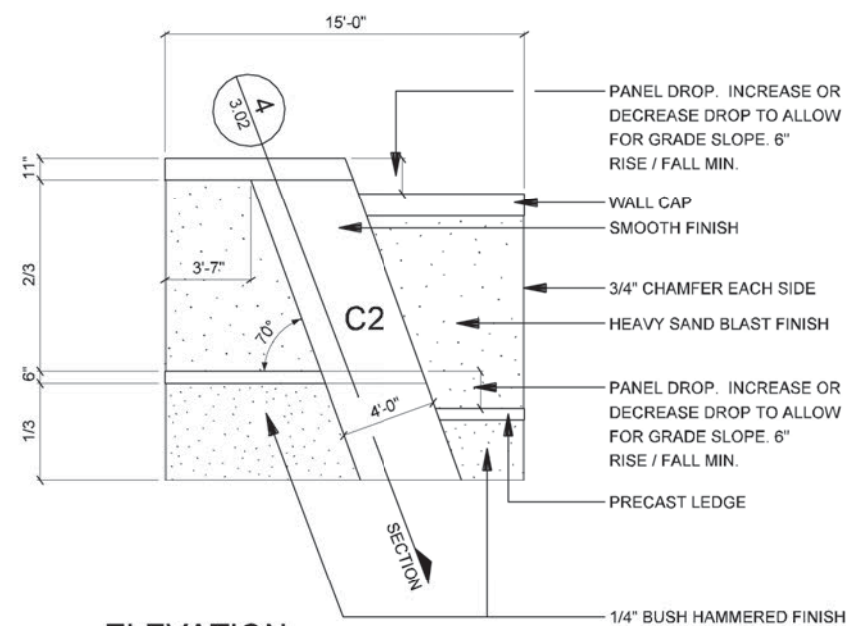
**6 PLAN/SECTION  
PANEL CONNECTION**  
SCALE: 1"=1'-0"



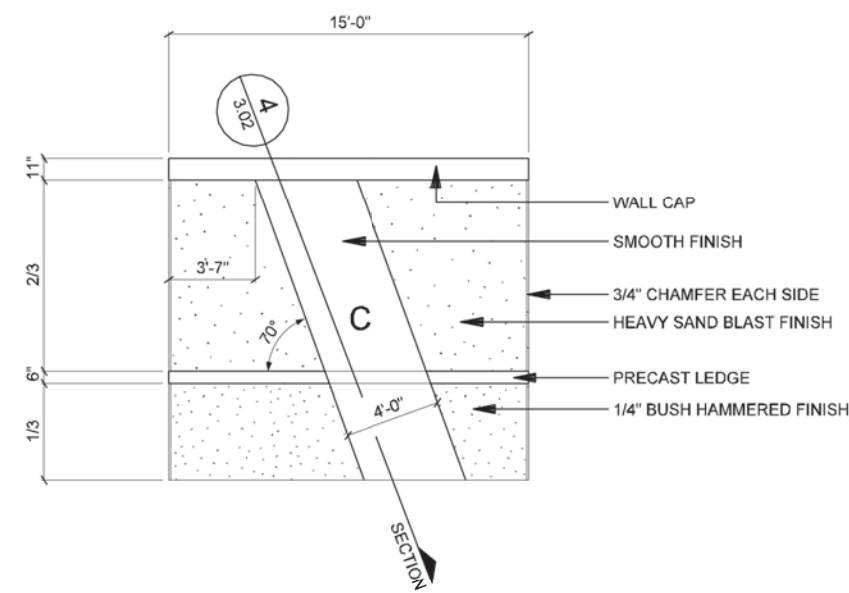
**4 ELEVATION  
SPIRE WALL PANEL - C1**  
SCALE: 1/8"=1'-0"



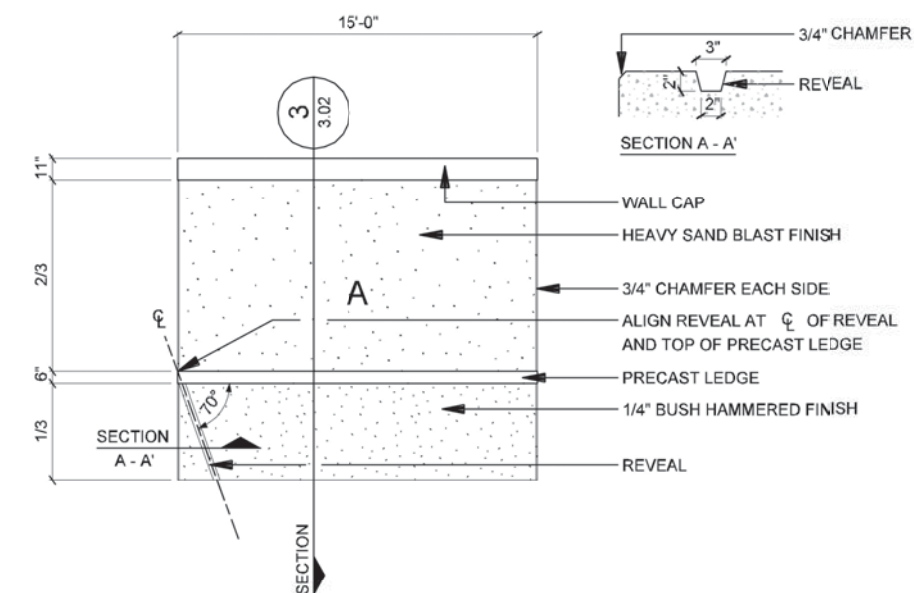
**2 ELEVATION  
STANDARD WALL PANEL - B**  
SCALE: 1/8"=1'-0"



**5 ELEVATION  
SPIRE WALL PANEL - C2**  
SCALE: 1/8"=1'-0"

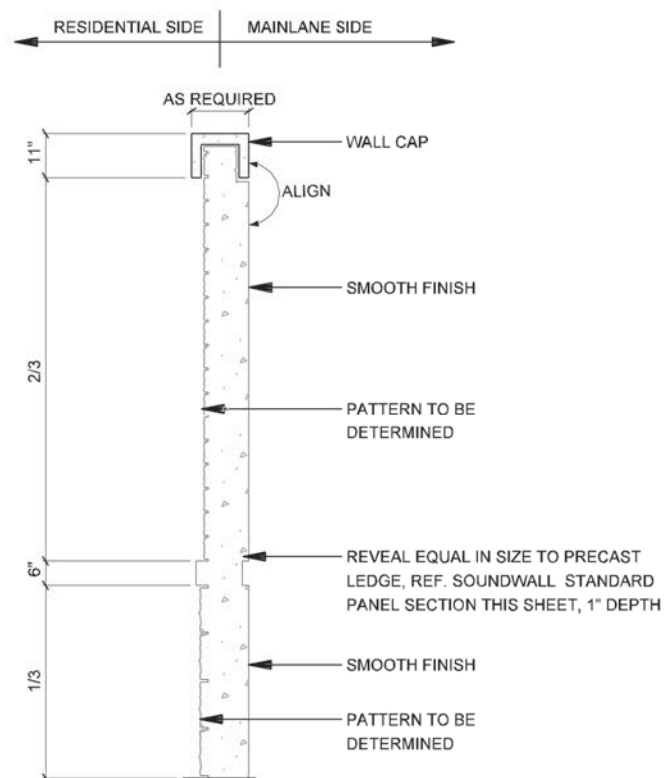


**3 ELEVATION  
SPIRE WALL PANEL - C**  
SCALE: 1/8"=1'-0"



**1 ELEVATION  
STANDARD WALL PANEL - A**  
SCALE: 1/8"=1'-0"

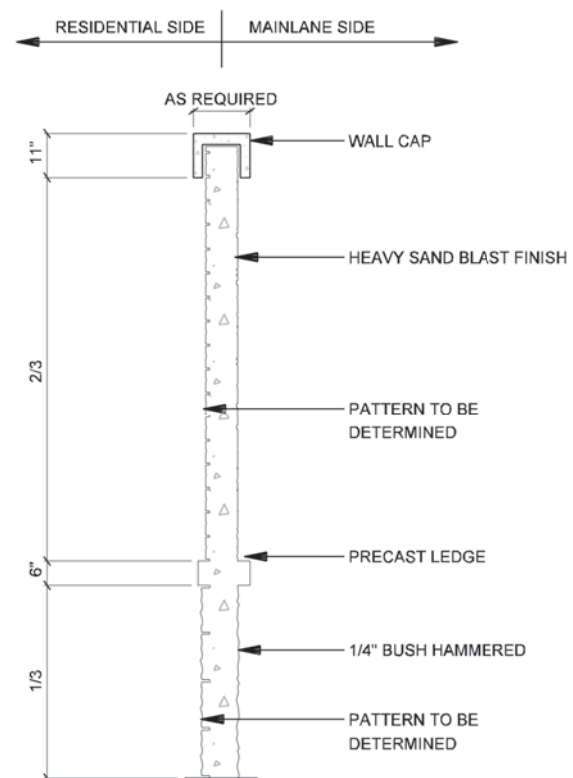
**NOTE:**  
DEVELOPER SHALL USE DESIGN SHOWN FOR  
MAINLANE SIDE OF NOISE WALL. DEVELOPER SHALL  
DETERMINE DESIGN FOR RESIDENTIAL SIDE BASED  
ON PUBLIC INPUT AND AGREEMENT. RID 3.01  
REPRESENTS POTENTIAL / DESIRED LOOK FOR  
RESIDENTIAL SIDE



SECTION  
NOISE WALLS SPIRE PANEL

4

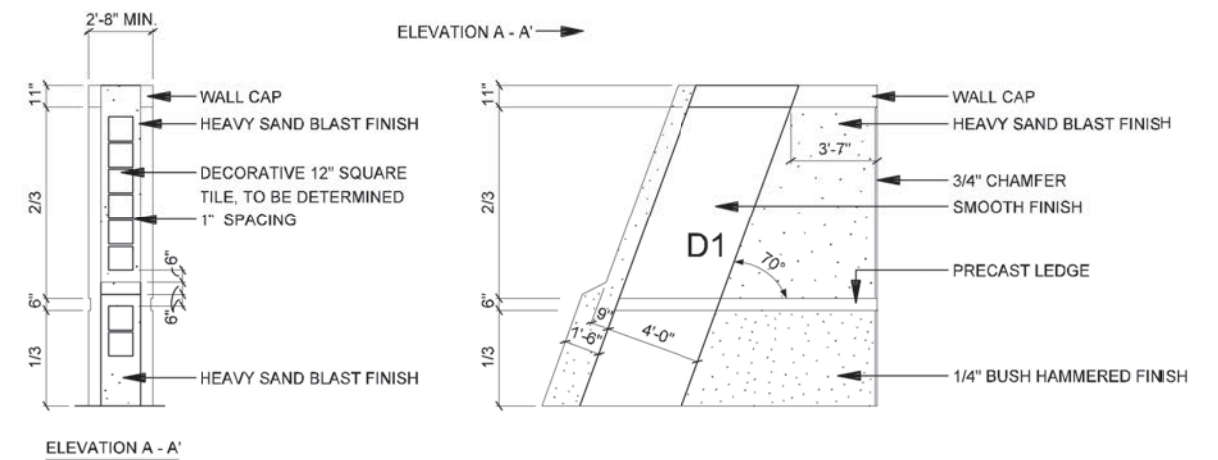
SCALE: 1/4"=1'-0"



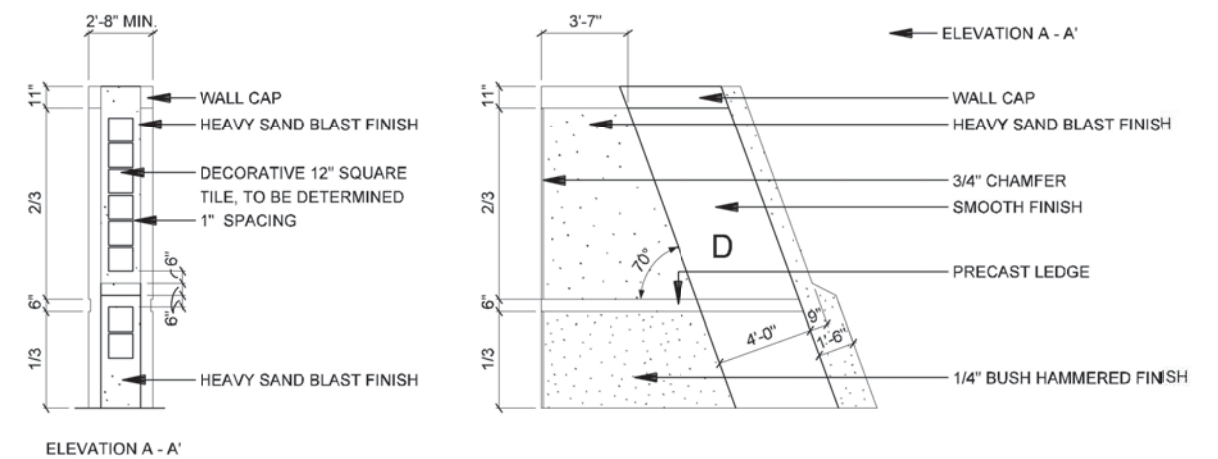
SECTION  
NOISE WALLS STANDARD PANEL

3

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



**ELEVATION**  
**2 STANDARD WALL PANEL - D1 (Mirror of Panel D)**  
SCALE: 1/8"=1'-0"



**ELEVATION**  
**STANDARD WALL PANEL - D**  
SCALE: 1/8"=1'-0"

IH635 MANAGED  
LANES PROJECT

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007

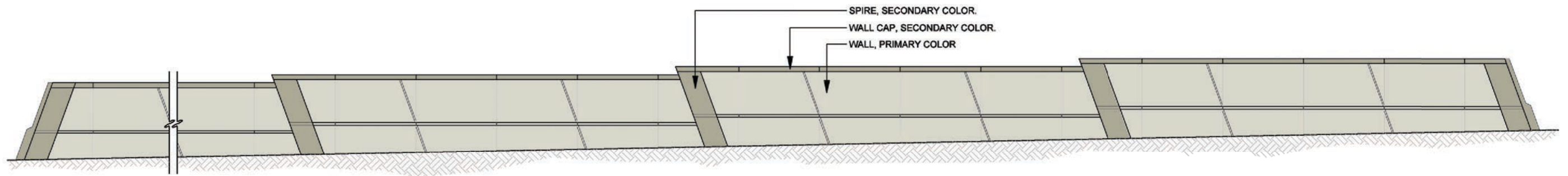
SCALE:  
AS NOTED

SHEET CONTENTS:
NOISE WALLS

ATTACHMENT:	15-1A
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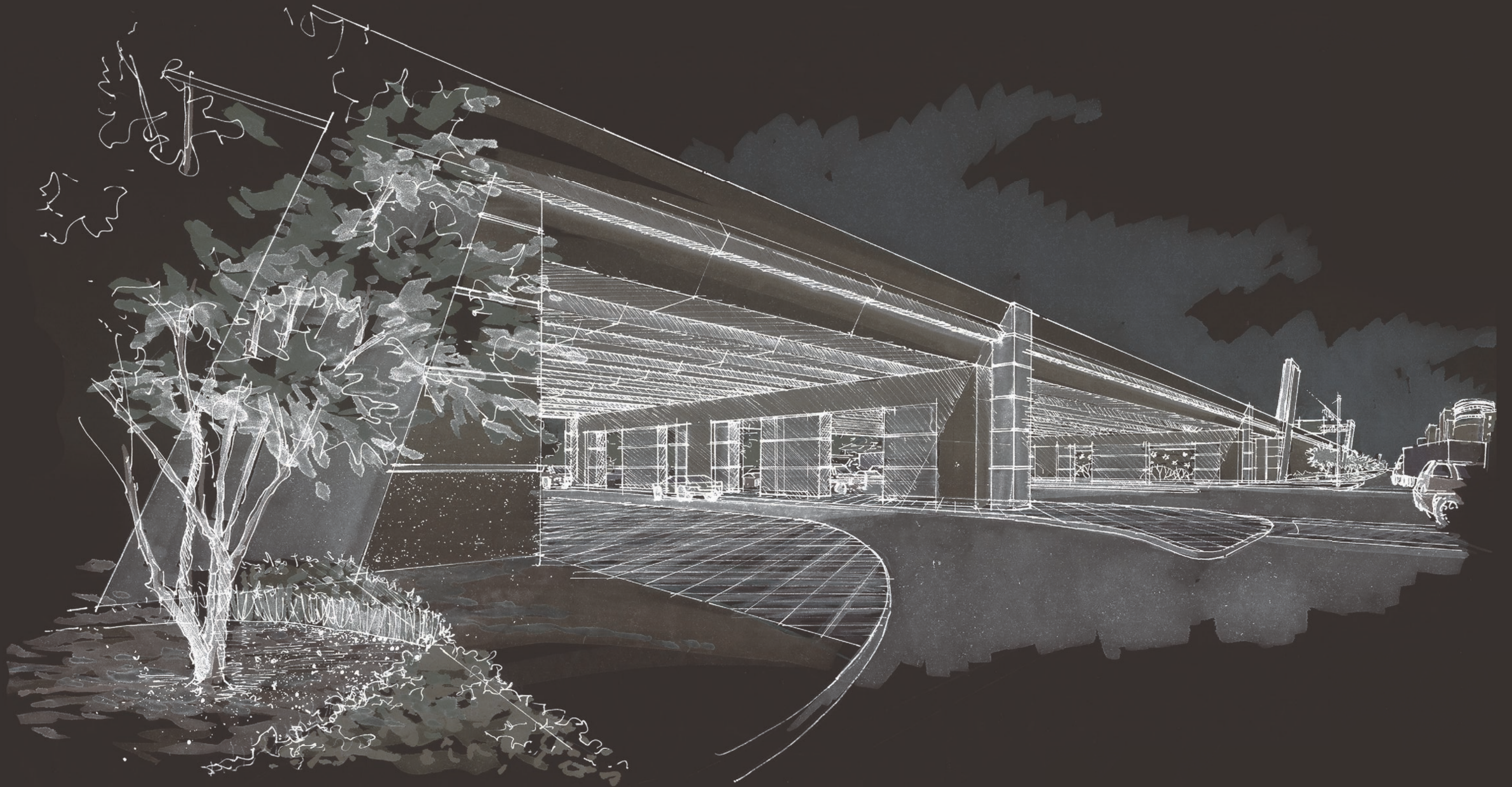
SHEET NUMBER:  
**3.02**





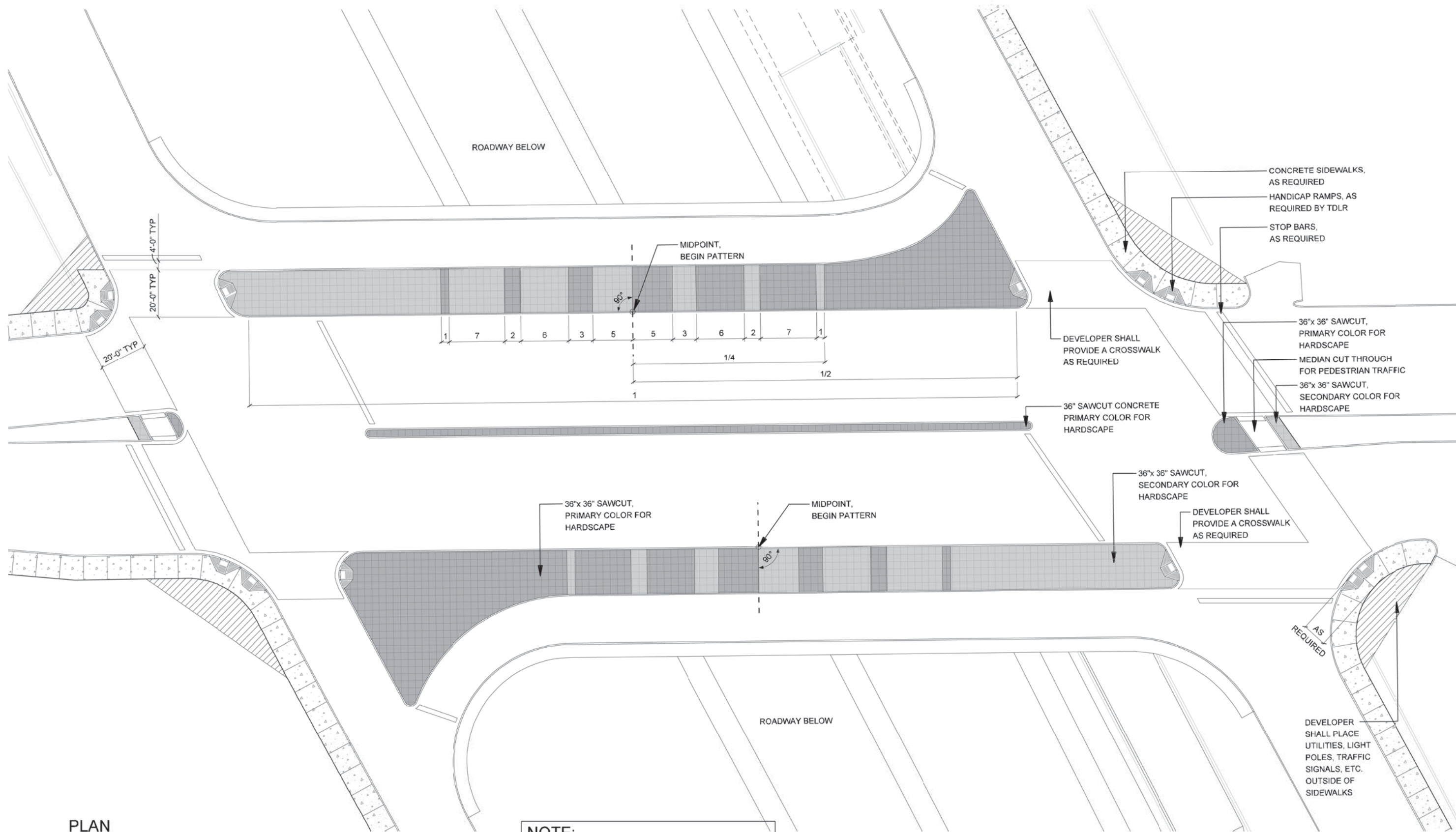
**ELEVATION  
NOISE WALLS - COLOR CONCEPT**  
SCALE: 1"=20'-0"





HARDSCAPE





1 PLAN  
PAVING - CROSS STREET UNDERPASS CONDITION  
SCALE: 1"=40'-0"

NOTE:  
REF. 0.03 FOR PAVING COLOR



IH635 MANAGED  
LANES PROJECT



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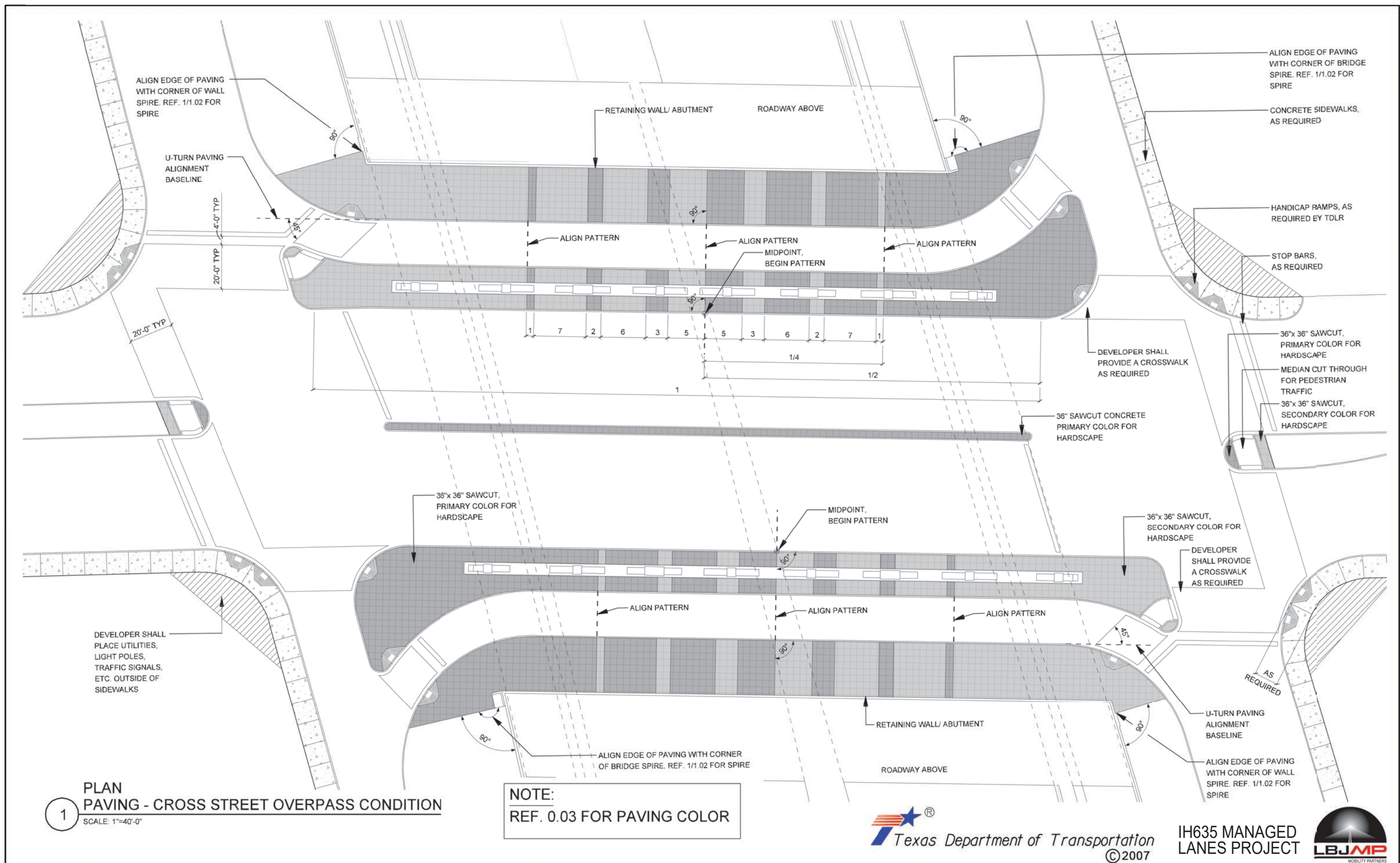
DATE:  
09/12/2007

SCALE:  
AS NOTED

SHEET CONTENTS:  
HARDSCAPE PLAN

ATTACHMENT:  
15-1A

SHEET NUMBER:  
4.00



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

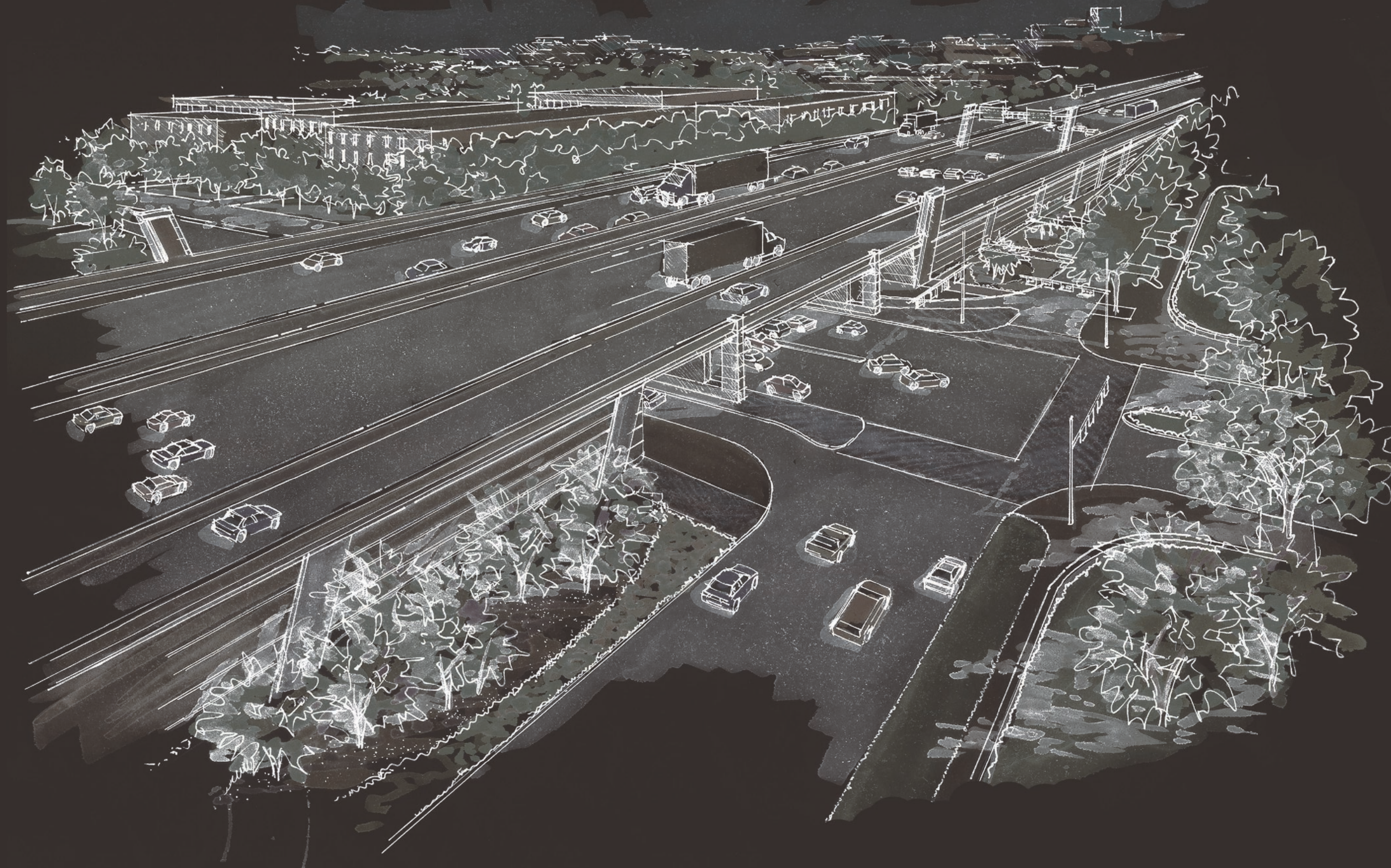
SCALE:  
AS NOTED

SHEET CONTENTS:  
HARDSCAPE PLAN

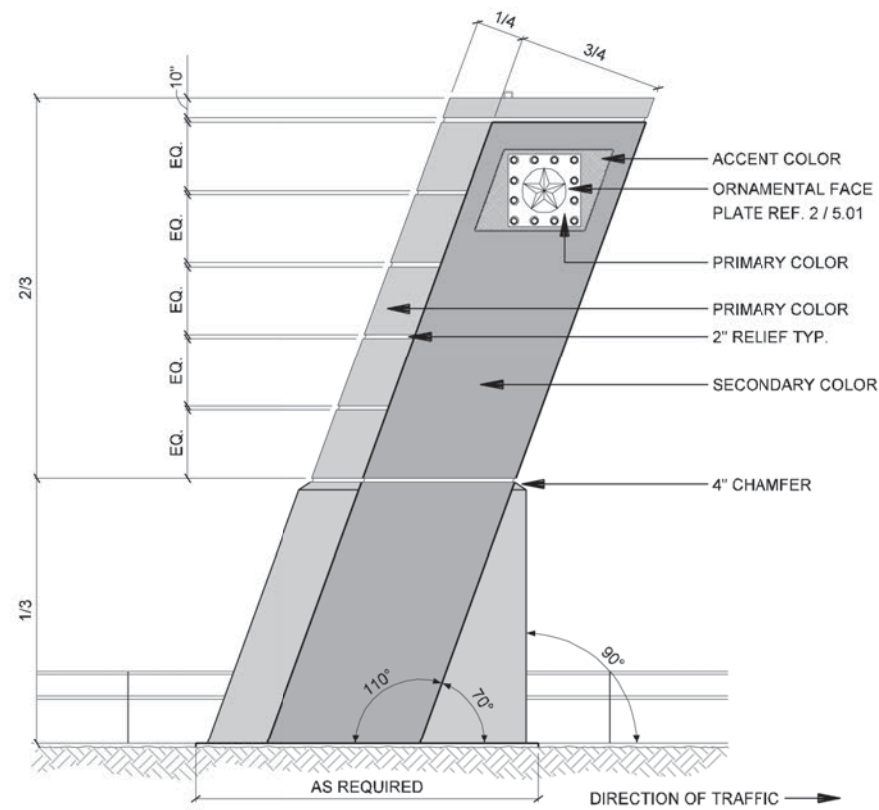
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**4.01**

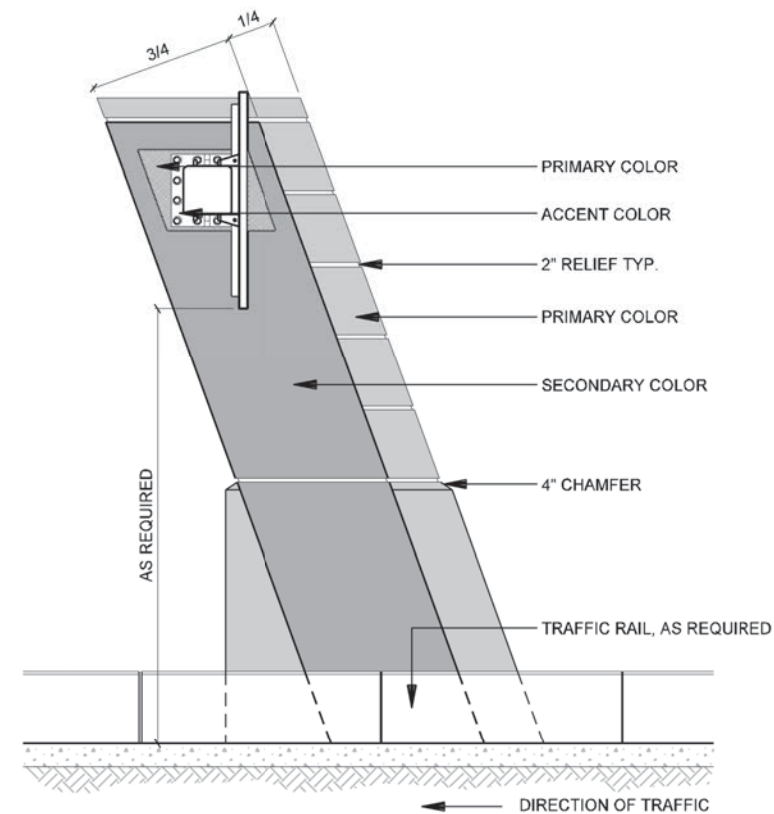








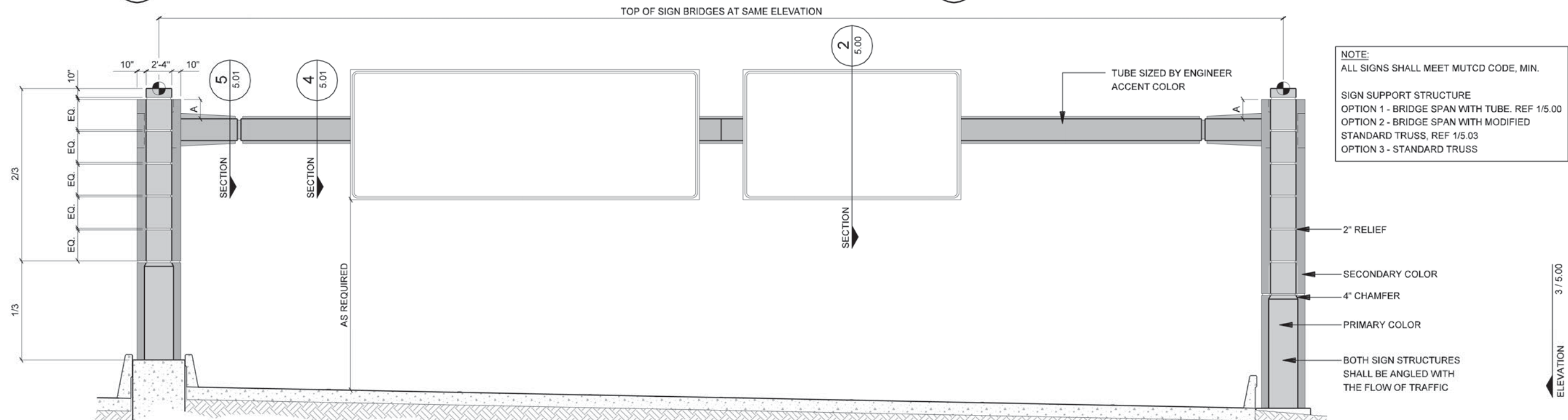
3 ELEVATION  
SIGN BRIDGE W/TUBE - SIDE VIEW  
SCALE: 1/8"=1'-0"



ELEVATION  
SIGN BRIDGE W/TUBE - SIDE VIEW  
2  
SCALE: 1/8"=1'-0"

**NOTE:**  
DEVELOPER SHALL CHOOSE ONE OF THE FOLLOWING  
FOR ALL CANTILEVERED & SIGN BRIDGE SUPPORT SYSTEMS.  
COLUMNS SHALL REMAIN AS SHOWN FOR ALL SIGNS.

1. SHEETS 5.00, 5.01, & 5.02 SHOW MONO TUBE.
2. SHEET 5.03 SHOWS A MOD. STANDARD TRUSS.



ELEVATION  
BRIDGE SPAN W/TUBE - FRONT VIEW  
1  
SCALE: 1"=10'-0"

**NOTE:**  
REF. 5.04 FOR DETAILED  
COLOR CONCEPT

**NOTE:**  
ALL SIGNS SHALL MEET MUTCD CODE, MIN.

SIGN SUPPORT STRUCTURE  
OPTION 1 - BRIDGE SPAN WITH TUBE. REF 1/5.00  
OPTION 2 - BRIDGE SPAN WITH MODIFIED  
STANDARD TRUSS, REF 1/5.03  
OPTION 3 - STANDARD TRUSS

- 2" RELIEF
- SECONDARY COLOR
- 4" CHAMFER
- PRIMARY COLOR
- BOTH SIGN STRUCTURES SHALL BE ANGLED WITH THE FLOW OF TRAFFIC

ELEVATION 3 / 5.00

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LANES PROJECT

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DATE: 09/12/2007

SCALE:  
AS NOTED

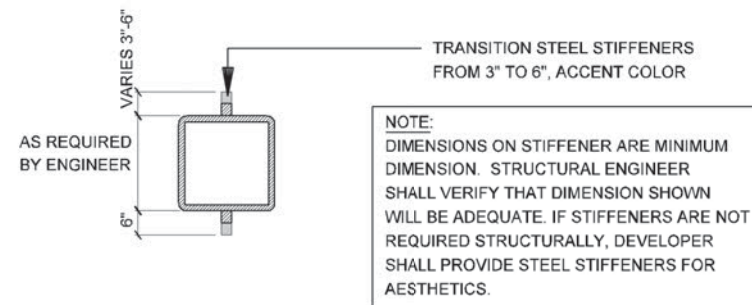
SHEET CONTENTS:

**SIGN BRIDGE**

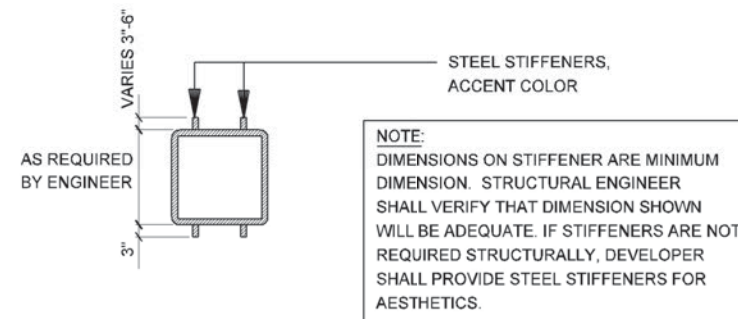
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**5.00**

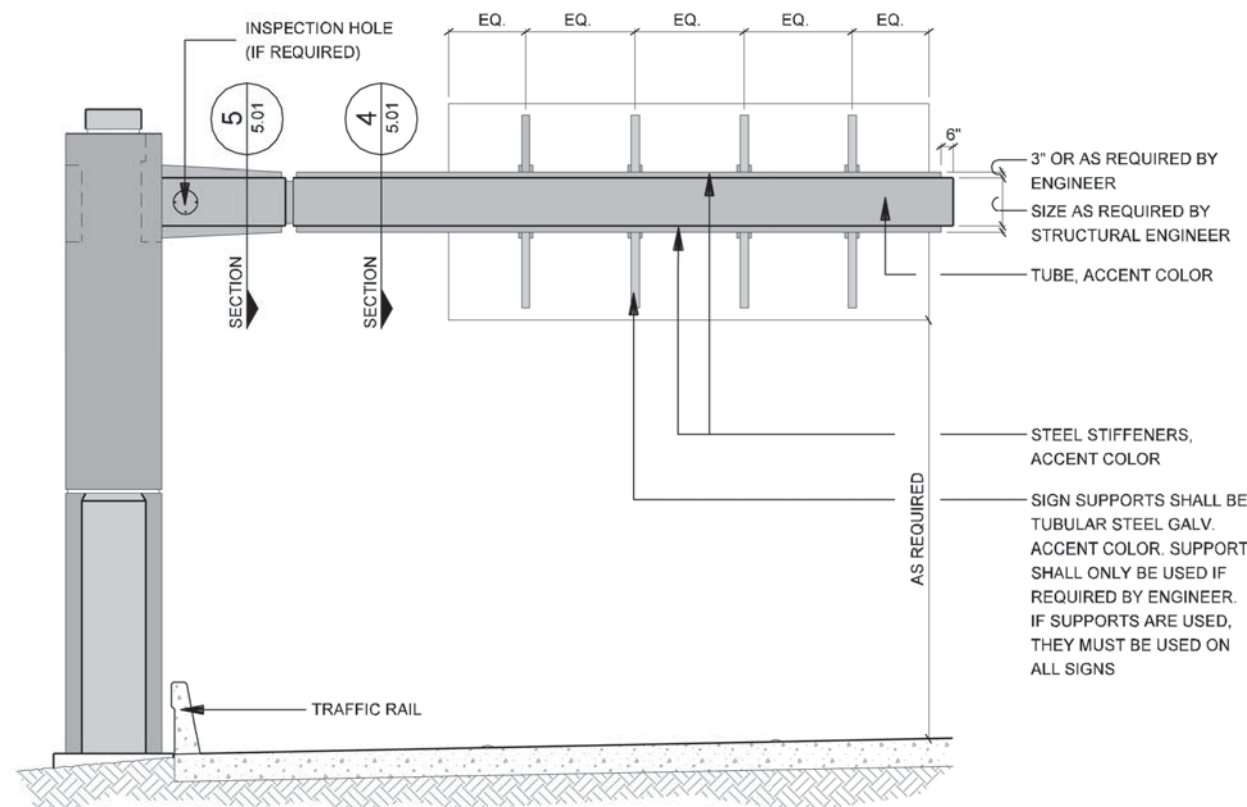
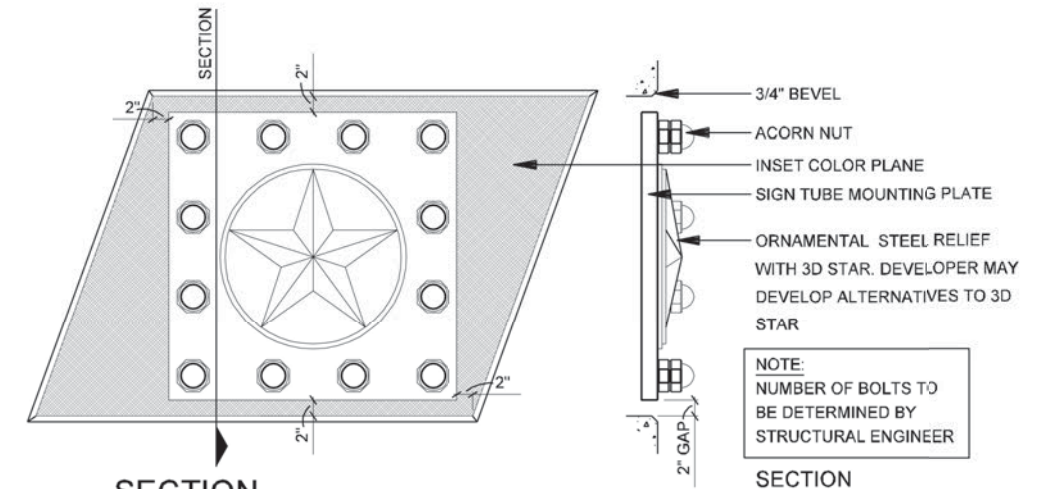




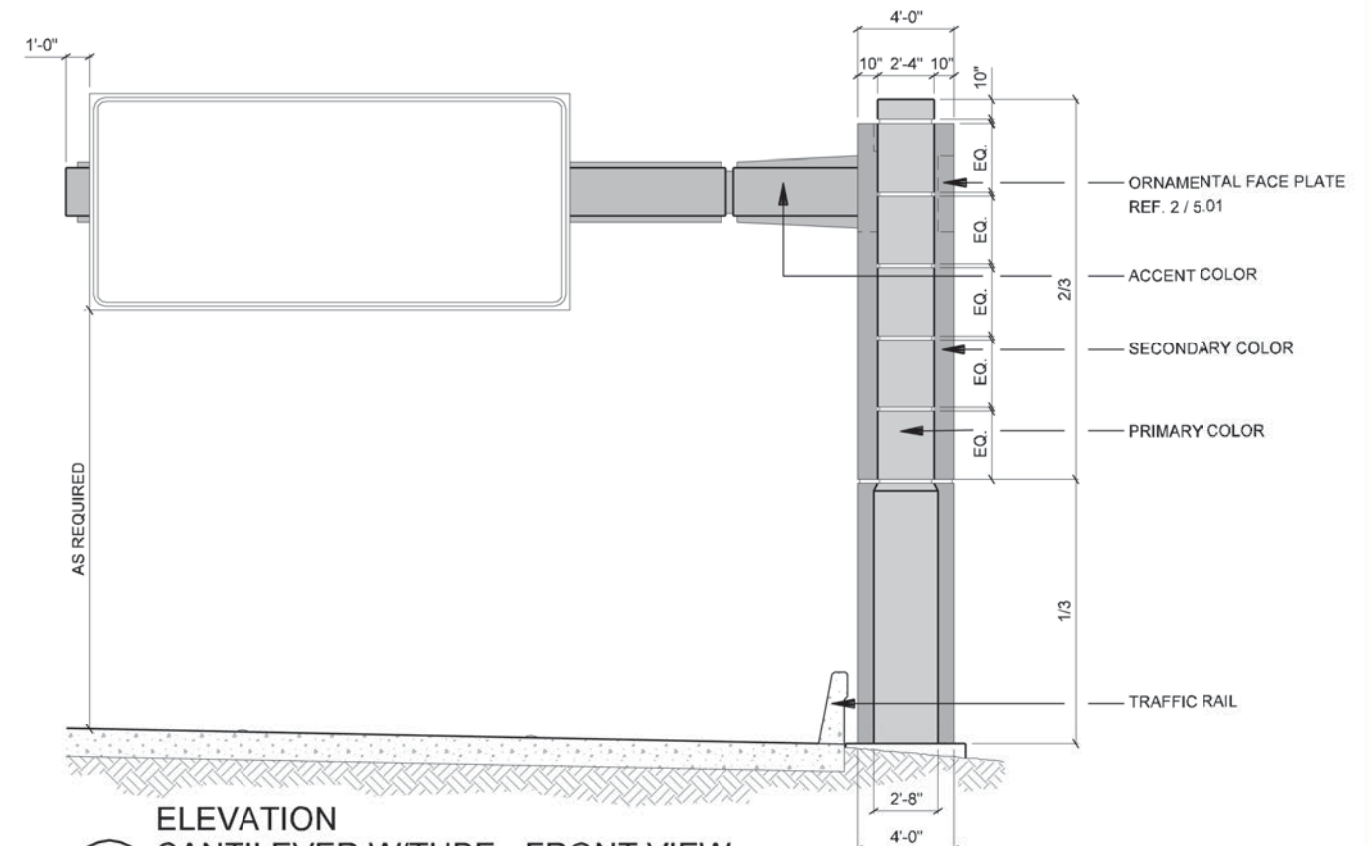
5  
SECTION  
TUBE  
SCALE: 1/4"=1'-0"



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

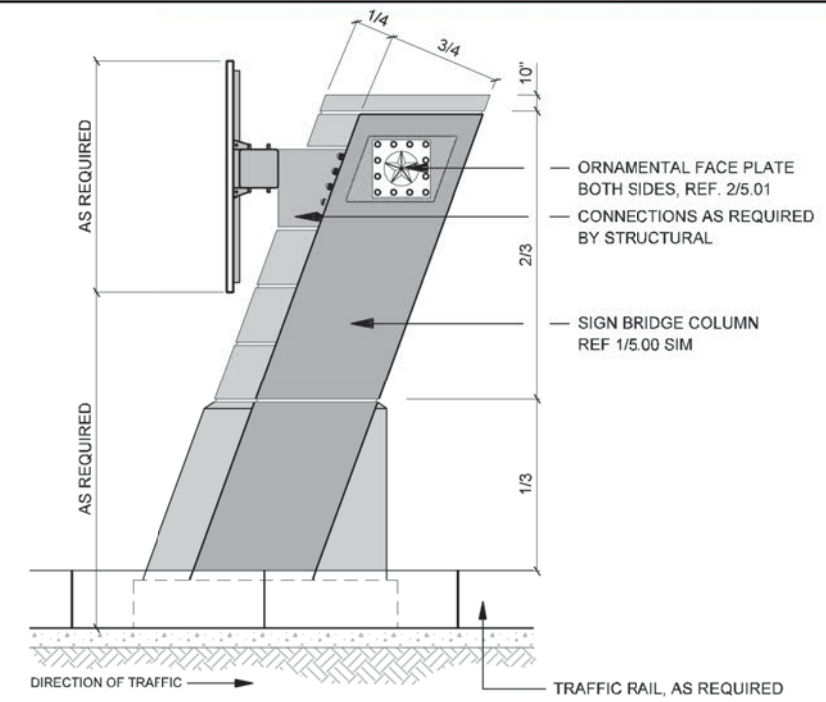


3  
ELEVATION  
CANTILEVER W/TUBE - BACK VIEW  
SCALE: 1/8"=1'-0"

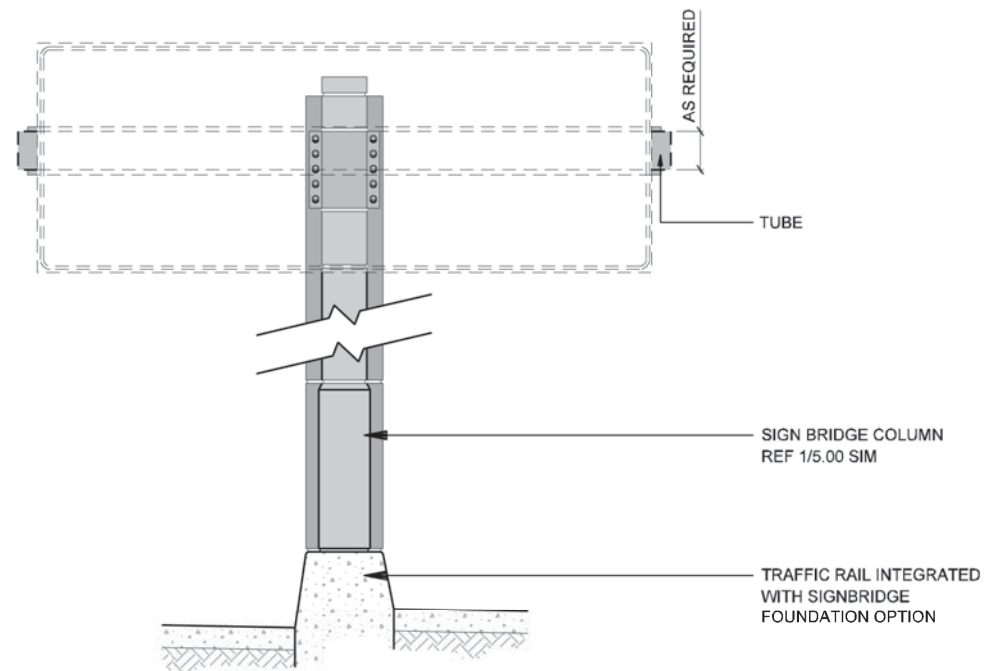


1  
ELEVATION  
CANTILEVER W/TUBE - FRONT VIEW  
SCALE: 1/8"=1'-0"

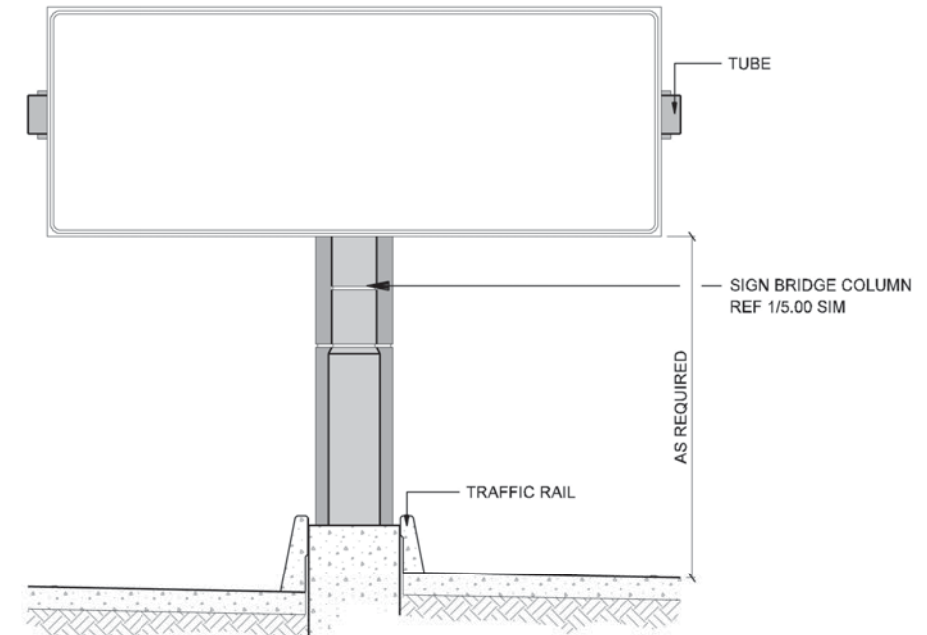




**2** ELEVATION  
CENTER MEDIAN SIGNAGE SUPPORT - SIDE VIEW  
SCALE: 1"=10'-0"

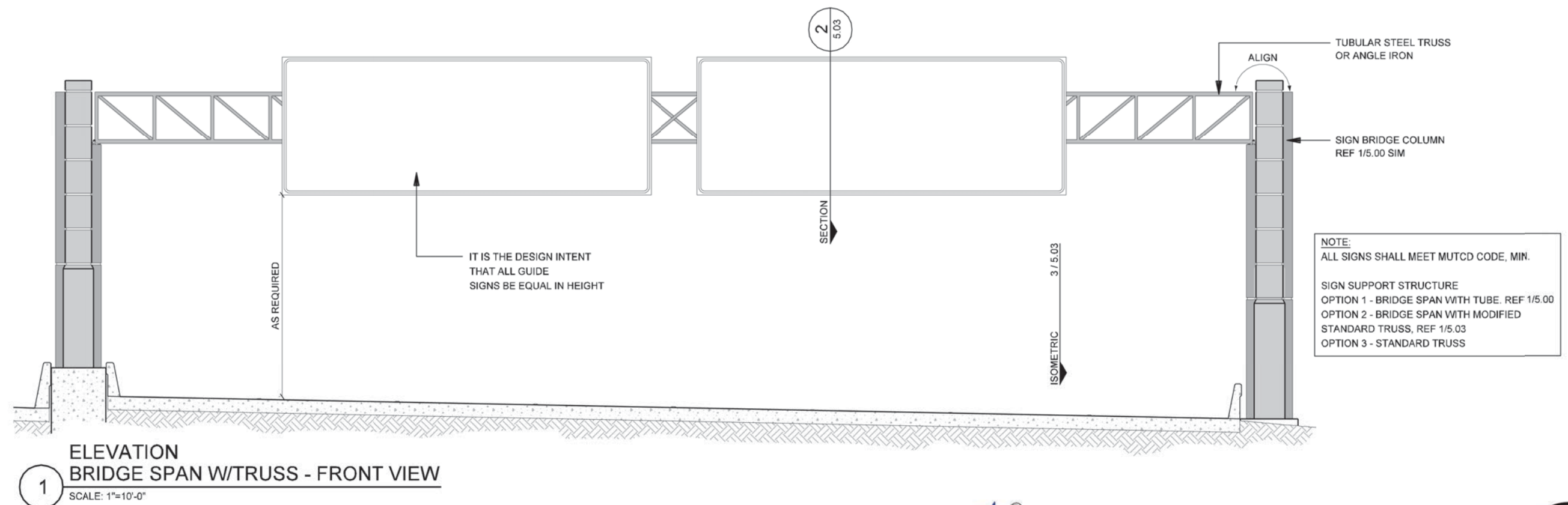
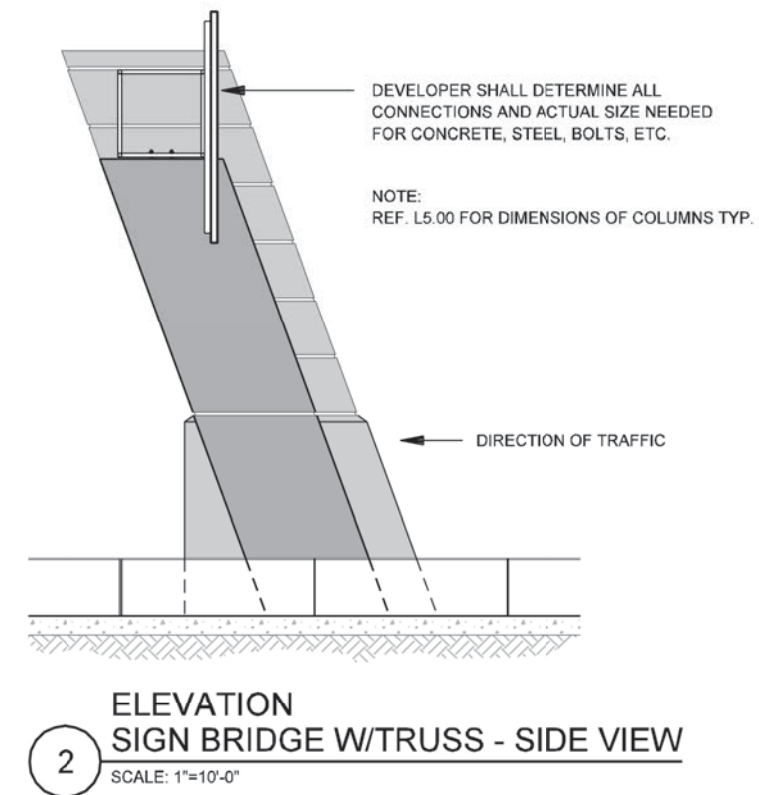
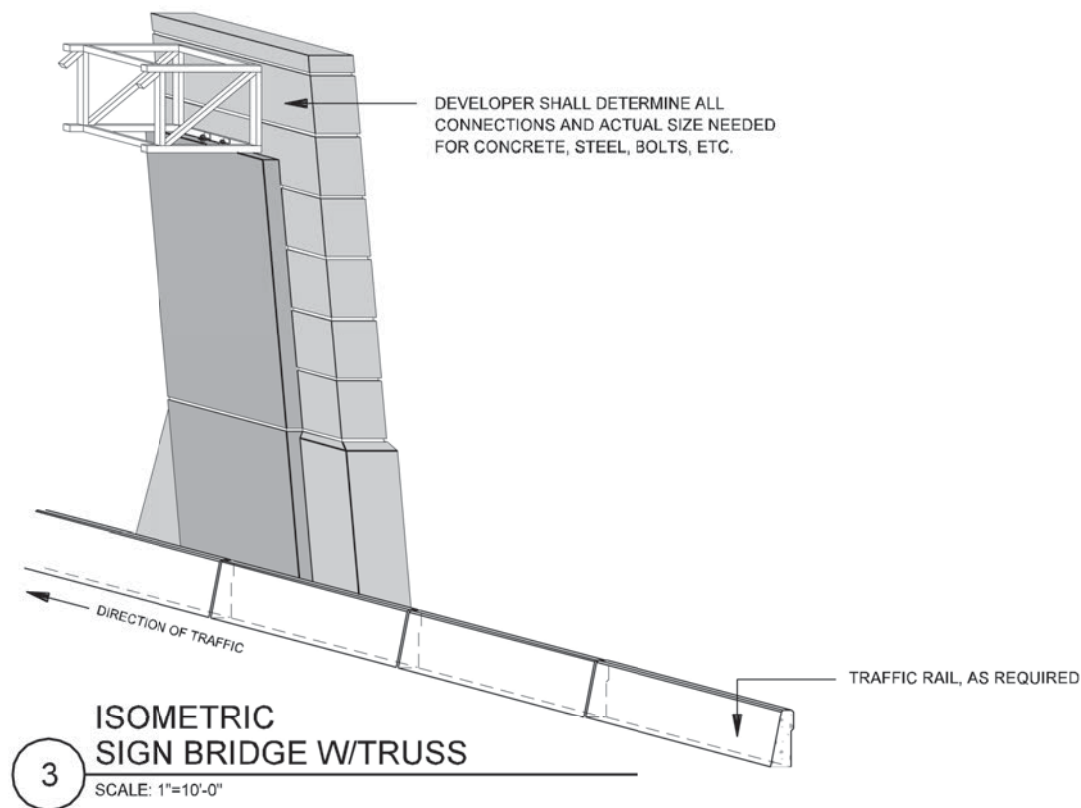


**3** ELEVATION  
TUBE COLUMN CONNECTION  
SCALE: 1"=10'-0"

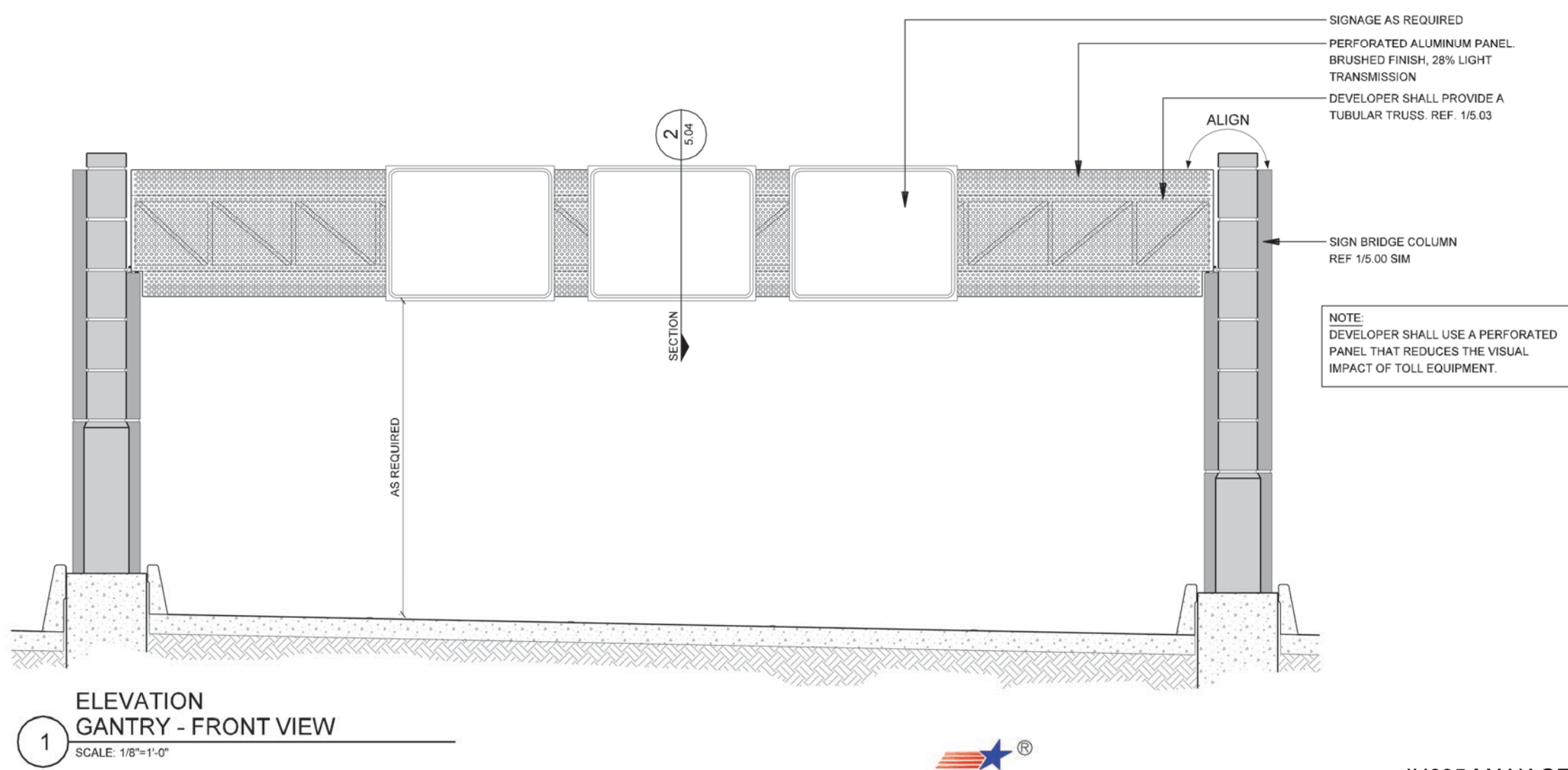
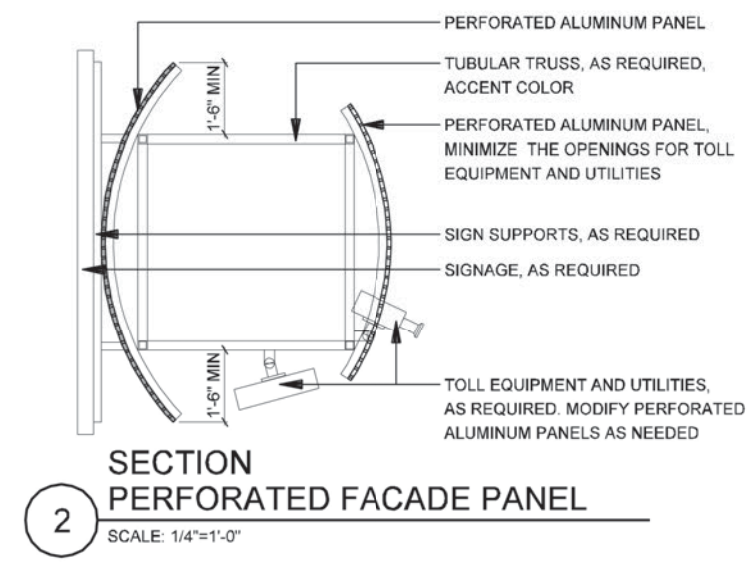


**1** ELEVATION  
BUTTERFLY W/TUBE - FRONT VIEW  
SCALE: 1"=10'-0"





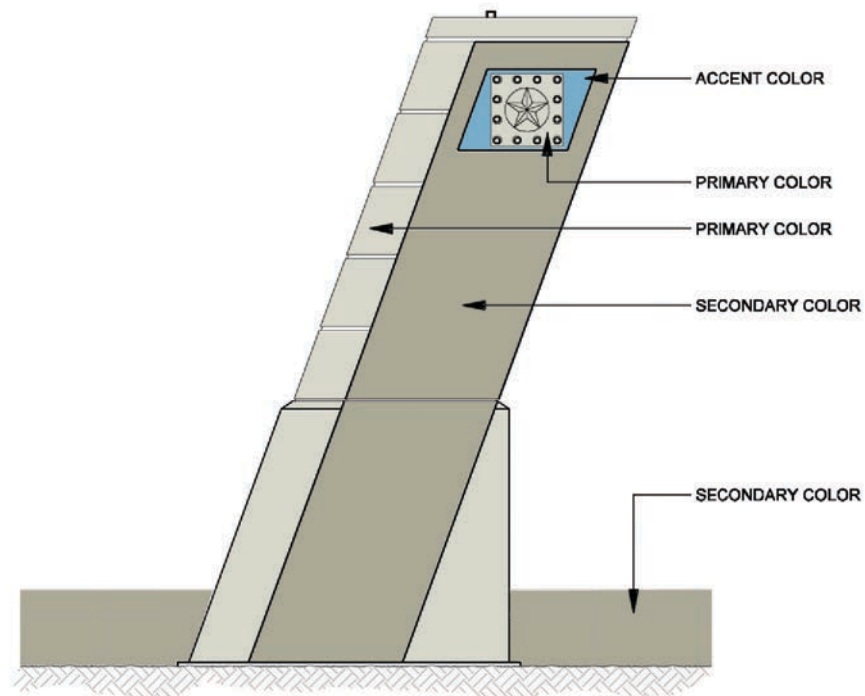




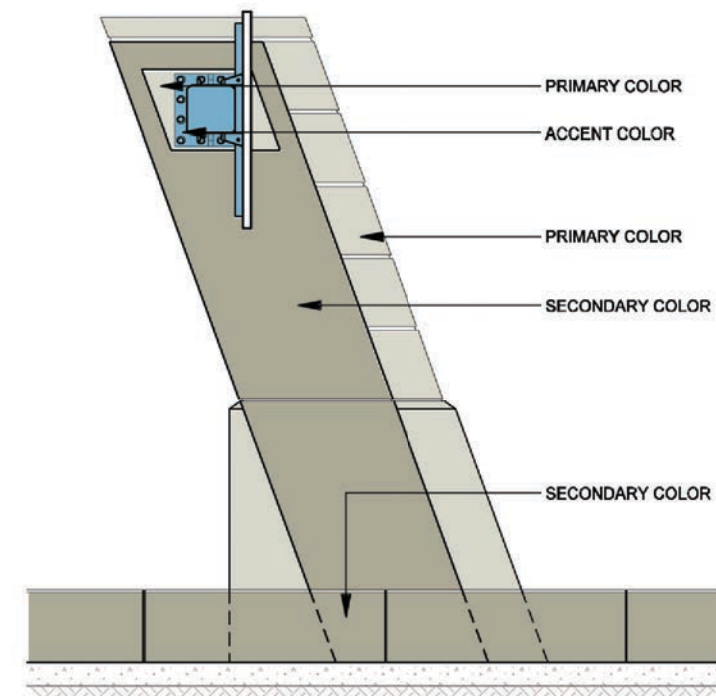
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: GANTRIES	ATTACHMENT: 15-1A	SHEET NUMBER: 5.04
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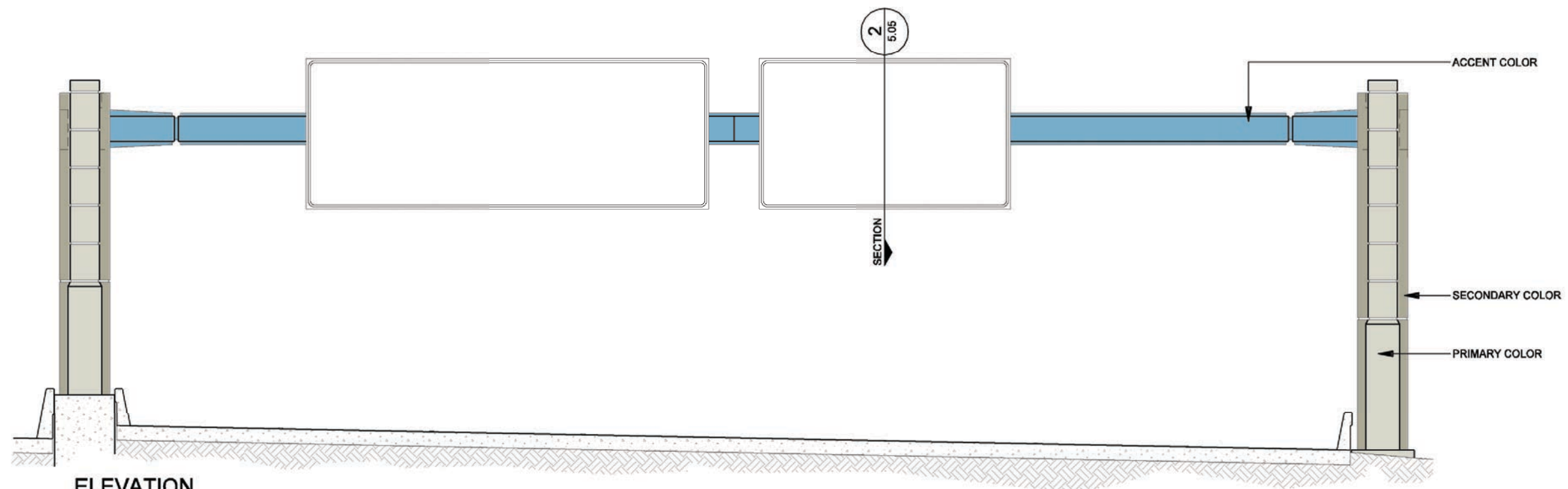




3  
ELEVATION  
SIGN BRIDGE - COLOR CONCEPT  
SCALE: 1/8"=1'-0"



2  
ELEVATION  
SIGN BRIDGE - COLOR CONCEPT  
SCALE: 1/8"=1'-0"

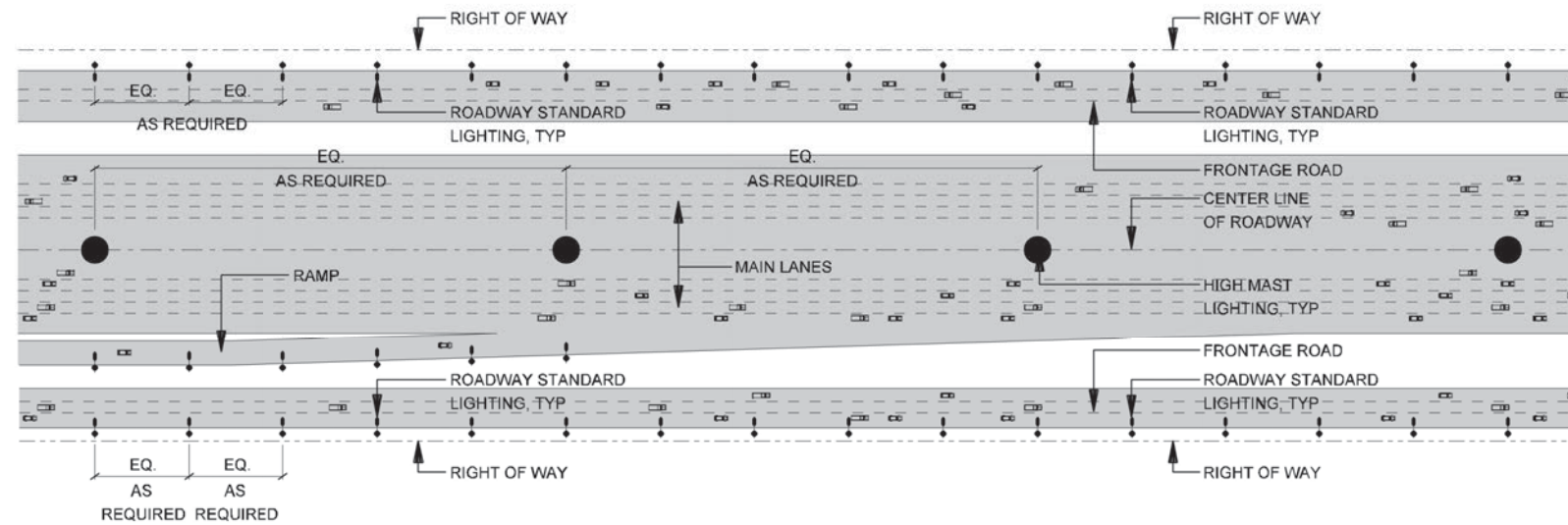


1  
ELEVATION  
SIGN BRIDGE - COLOR CONCEPT  
SCALE: 1"=10'-0"

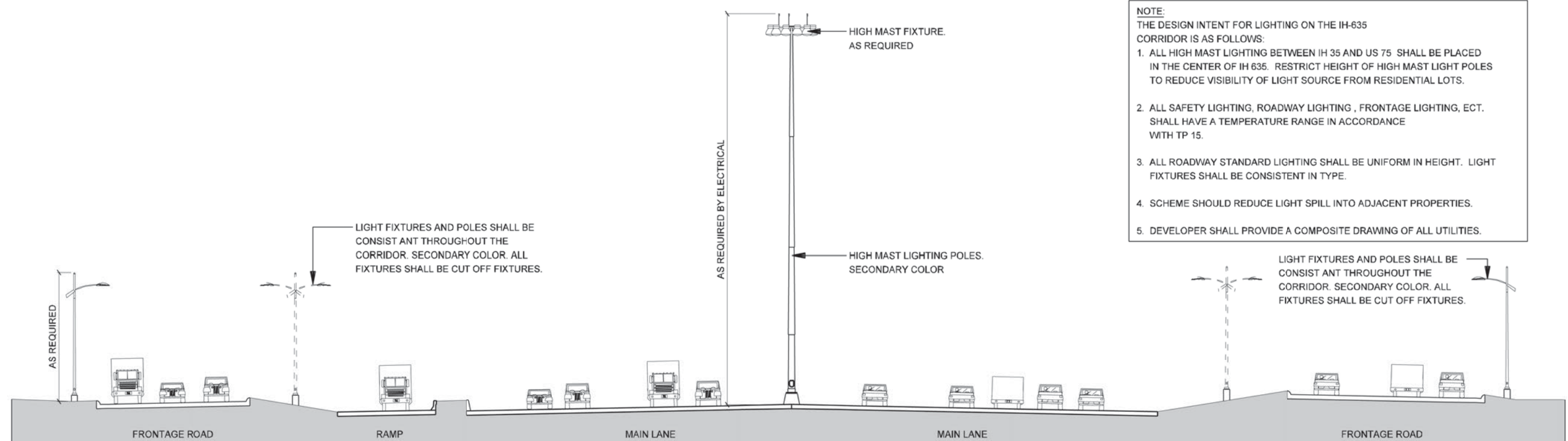








2 PLAN  
LIGHTPOLE LAYOUT DIAGRAM - IH-635 TYP  
SCALE: N.T.S.



- NOTE:  
THE DESIGN INTENT FOR LIGHTING ON THE IH-635 CORRIDOR IS AS FOLLOWS:
1. ALL HIGH MAST LIGHTING BETWEEN IH 35 AND US 75 SHALL BE PLACED IN THE CENTER OF IH 635. RESTRICT HEIGHT OF HIGH MAST LIGHT POLES TO REDUCE VISIBILITY OF LIGHT SOURCE FROM RESIDENTIAL LOTS.
  2. ALL SAFETY LIGHTING, ROADWAY LIGHTING, FRONTAGE LIGHTING, ECT. SHALL HAVE A TEMPERATURE RANGE IN ACCORDANCE WITH TP 15.
  3. ALL ROADWAY STANDARD LIGHTING SHALL BE UNIFORM IN HEIGHT. LIGHT FIXTURES SHALL BE CONSISTENT IN TYPE.
  4. SCHEME SHOULD REDUCE LIGHT SPILL INTO ADJACENT PROPERTIES.
  5. DEVELOPER SHALL PROVIDE A COMPOSITE DRAWING OF ALL UTILITIES.

1 SECTION  
LIGHTING LAYOUT - IH-635 TYP  
SCALE: 1"=30'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

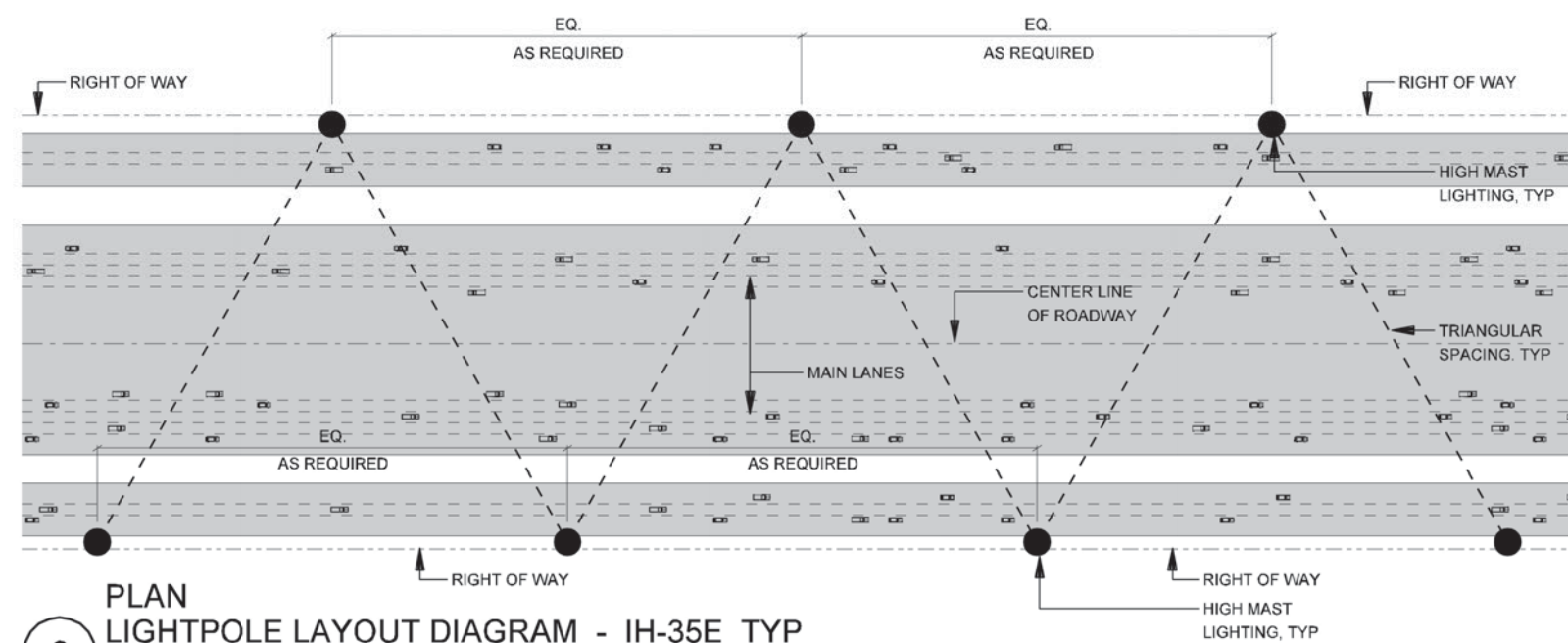
DATE:  
09/12/2007

SCALE:  
AS NOTED

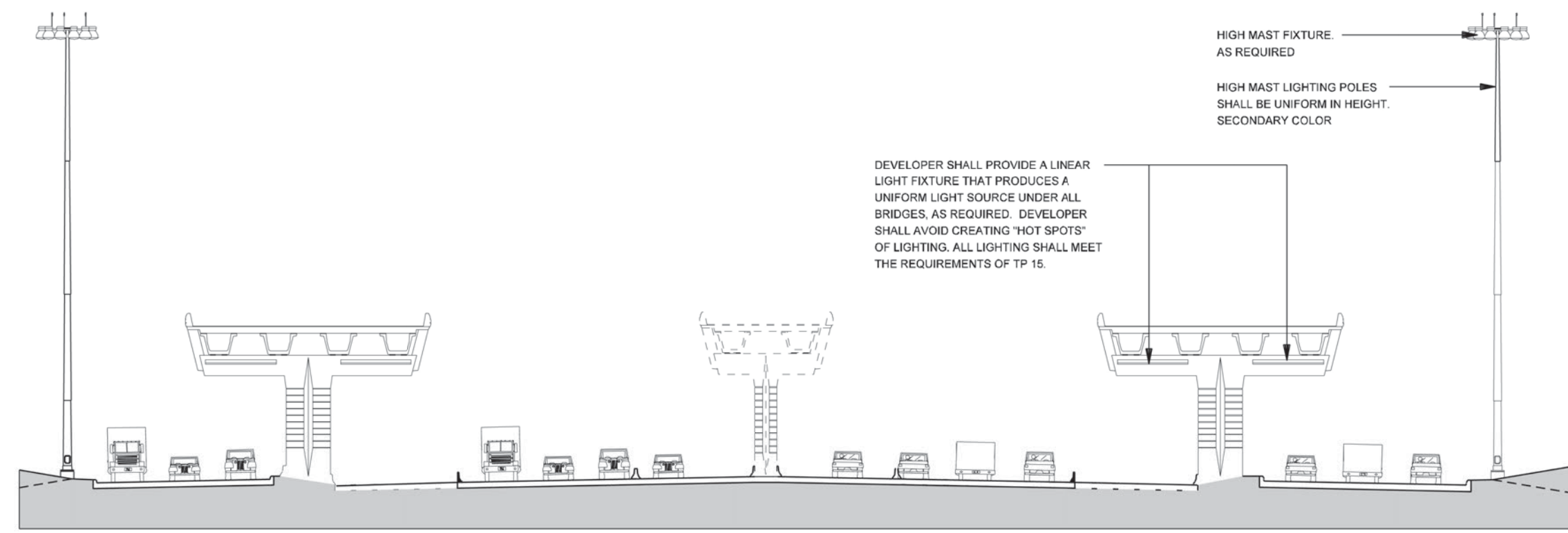
SHEET CONTENTS:  
ROADWAY LIGHTING

ATTACHMENT:  
15-1A

SHEET NUMBER:  
6.00



2 PLAN  
LIGHTPOLE LAYOUT DIAGRAM - IH-35E TYP  
SCALE: N.T.S.

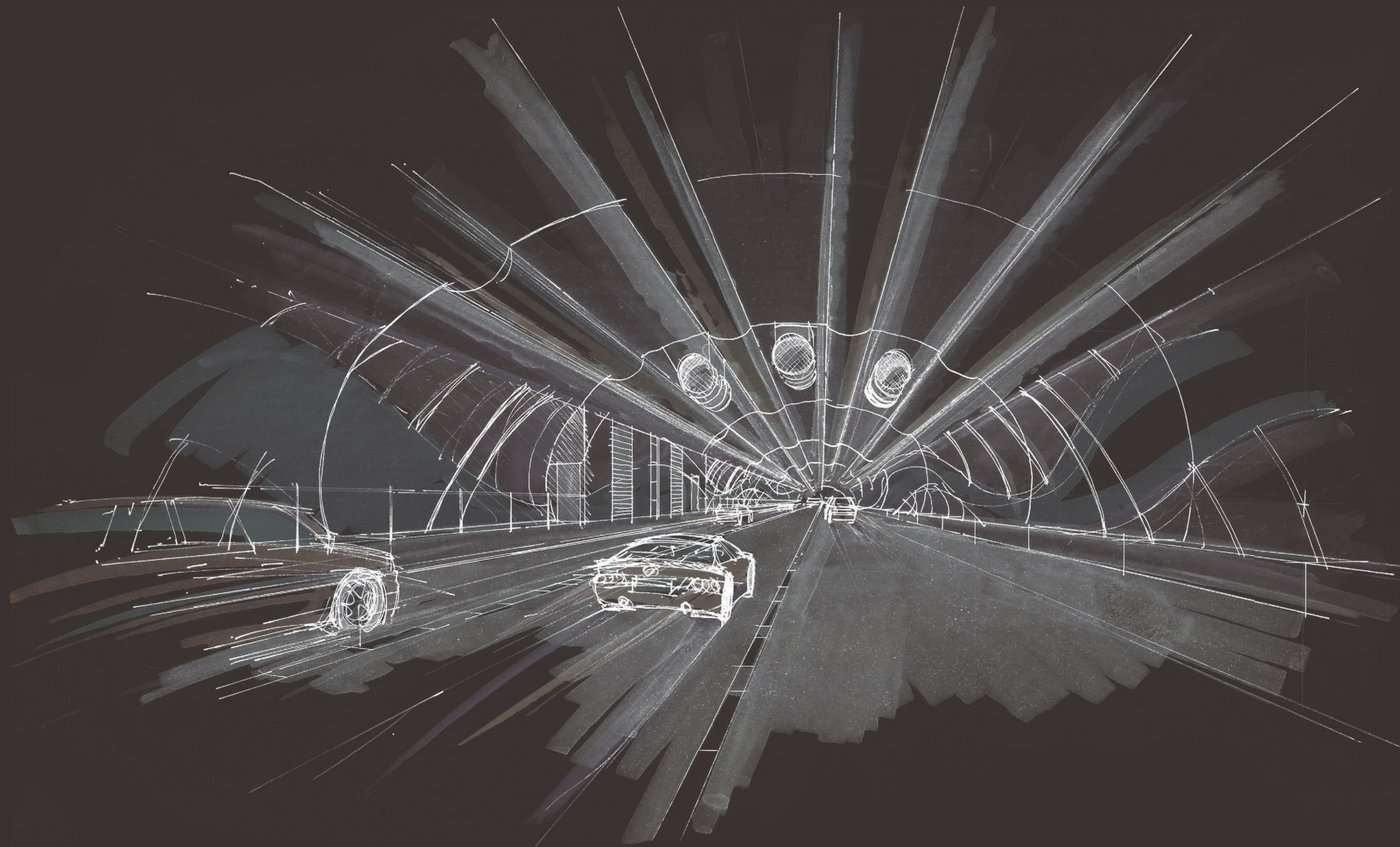


1 SECTION  
LIGHTING LAYOUT - IH-35E TYP  
SCALE: 1"=30'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

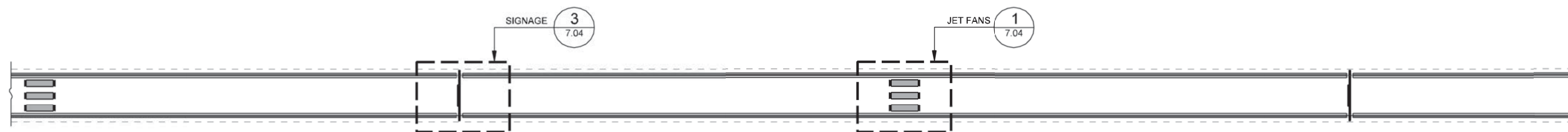
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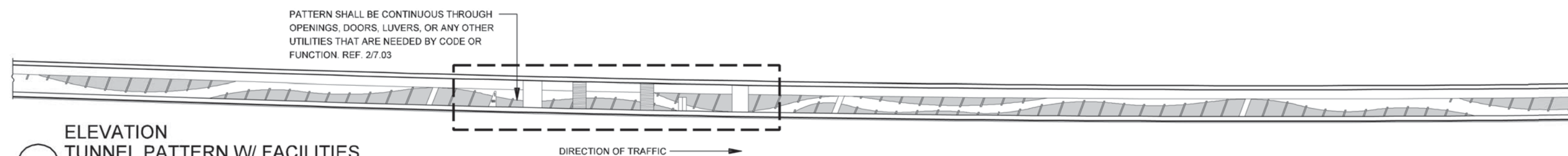


TUNNEL AESTHETICS

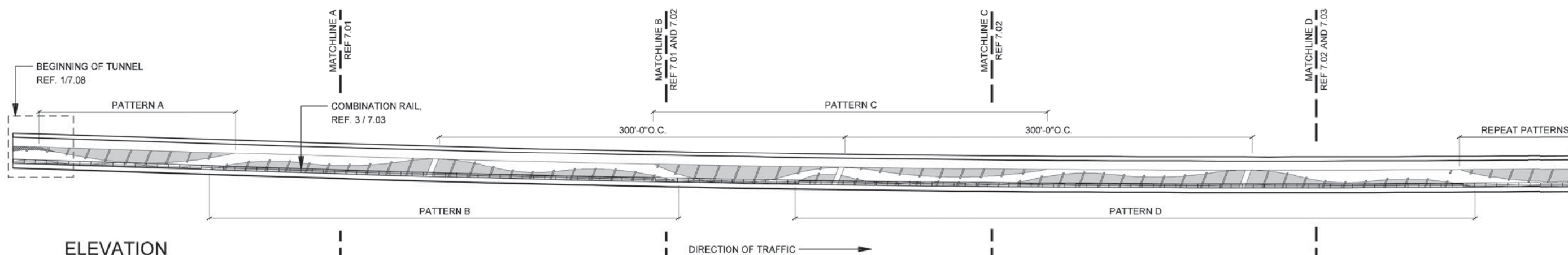




3  
PLAN  
REFLECTED CEILING  
SCALE: 1"=100'-0"



2  
ELEVATION  
TUNNEL PATTERN W/ FACILITIES  
SCALE: 1"=80'-0"



1  
ELEVATION  
TUNNEL PATTERN - TYP  
SCALE: 1"=80'-0"



IH635 MANAGED  
LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

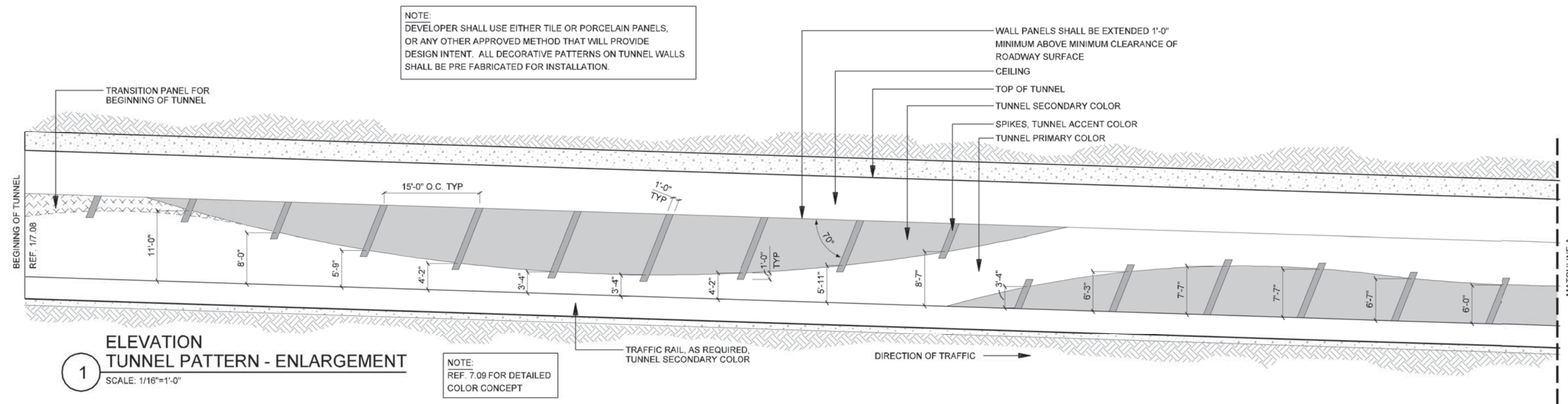
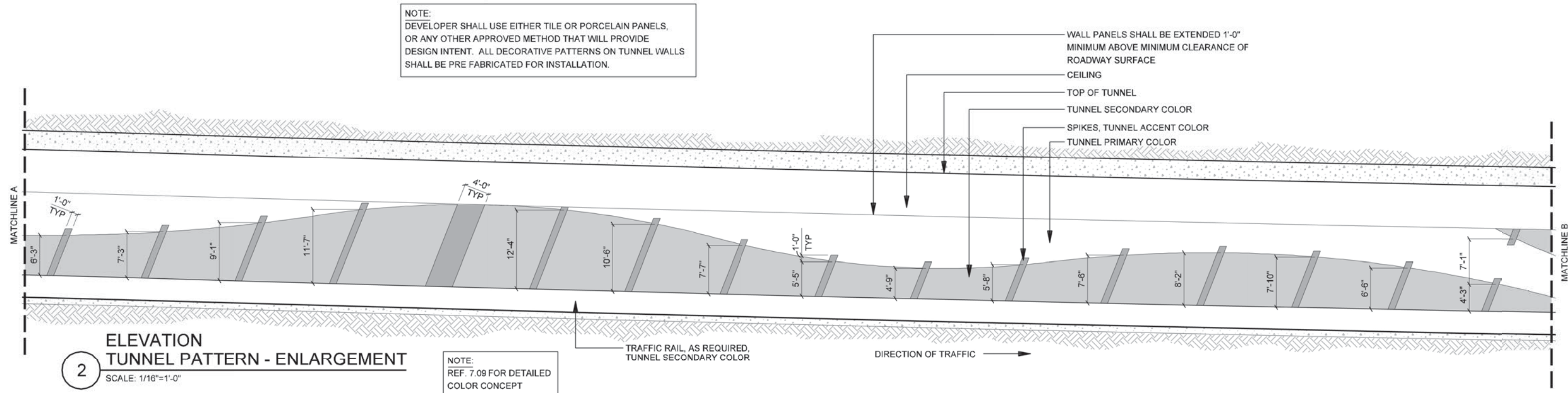
SCALE:  
AS NOTED

SHEET CONTENTS:  
TUNNEL AESTHETICS

ATTACHMENT:  
15-1A

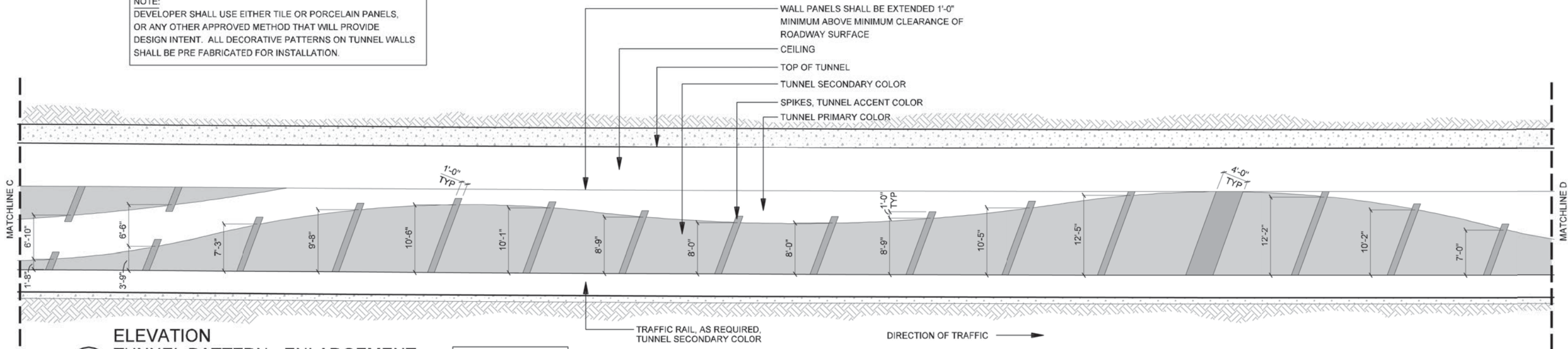
SHEET NUMBER:  
7.00







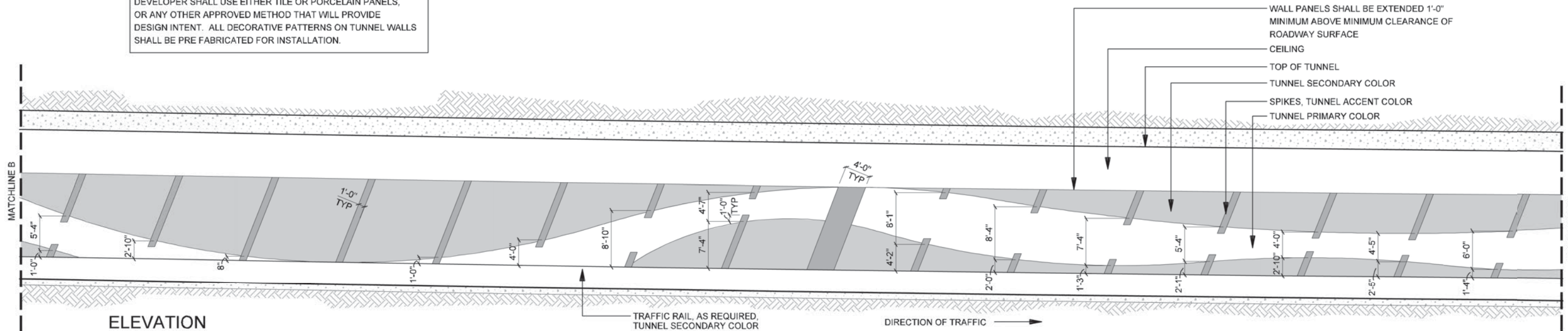
NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



**2**  
**ELEVATION  
TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



**1**  
**ELEVATION  
TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE  
SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

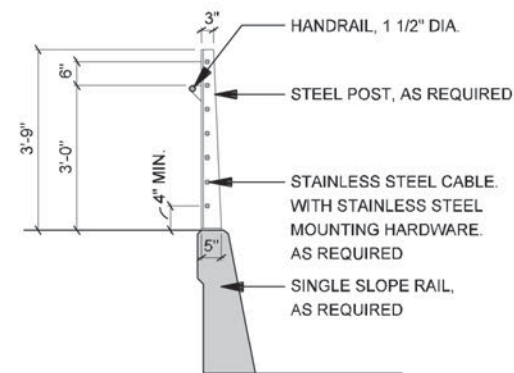
SCALE:  
AS NOTED

SHEET CONTENTS:  
TUNNEL AESTHETICS

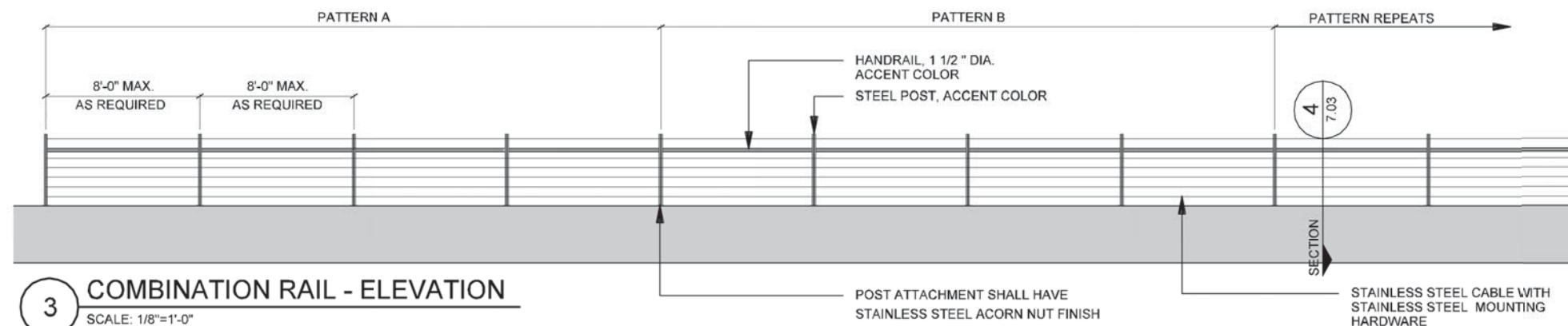
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**7.02**

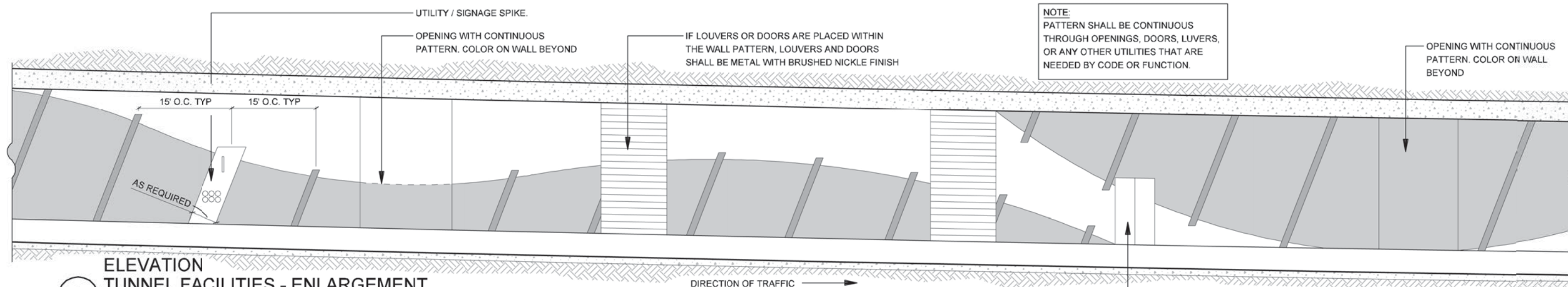




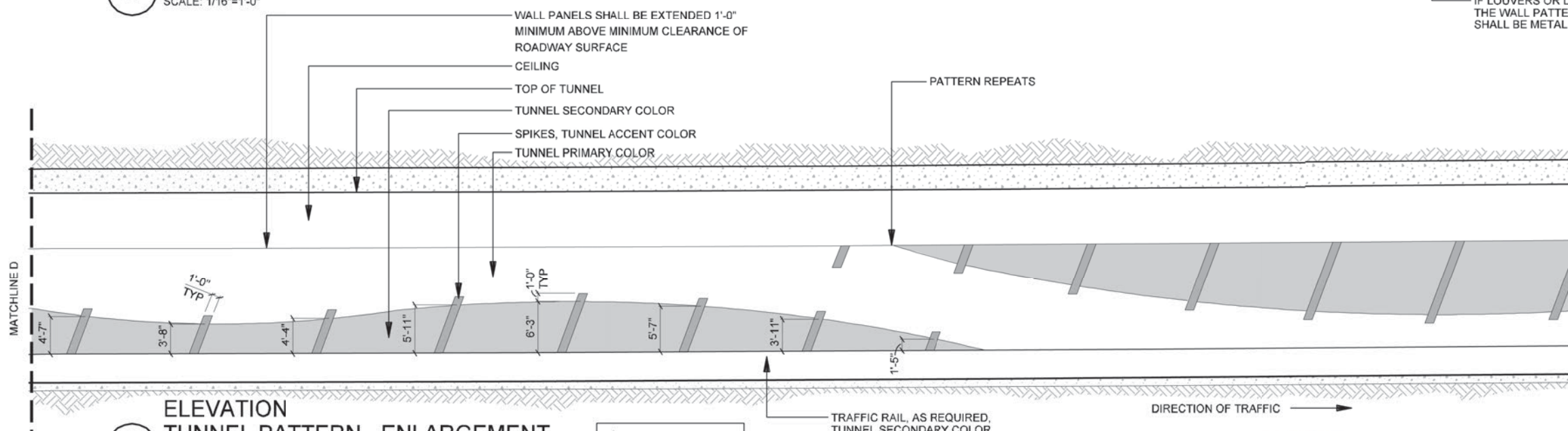
**4 COMBINATION RAIL - SECTION**  
 SCALE: 1/4"=1'-0"



**3 COMBINATION RAIL - ELEVATION**  
 SCALE: 1/8"=1'-0"



**2 ELEVATION TUNNEL FACILITIES - ENLARGEMENT**  
 SCALE: 1/16"=1'-0"



**1 ELEVATION TUNNEL PATTERN - ENLARGEMENT**  
 SCALE: 1/16"=1'-0"

NOTE:  
 REF. 7.09 FOR DETAILED COLOR CONCEPT

NOTE:  
 DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS, OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS SHALL BE PRE FABRICATED FOR INSTALLATION.

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

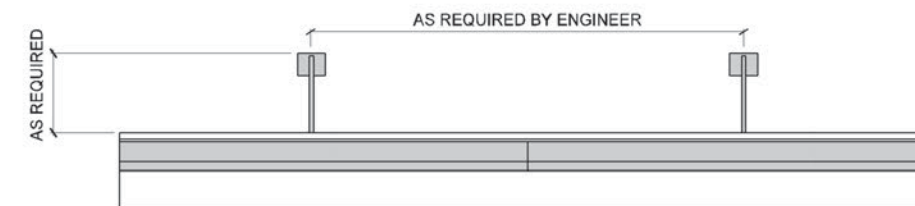
DATE:  
 09/12/2007

SCALE:  
 AS NOTED

SHEET CONTENTS:  
 TUNNEL AESTHETICS

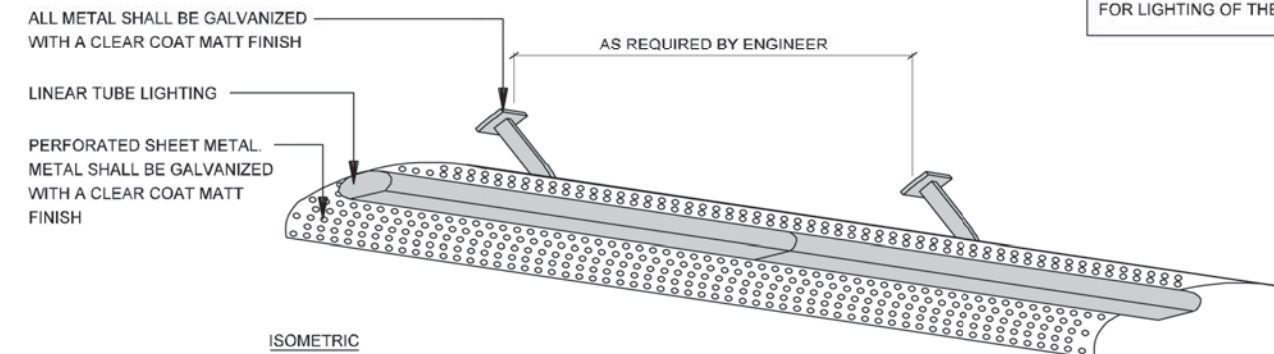
ATTACHMENT:  
 15-1A

SHEET NUMBER:  
 7.03



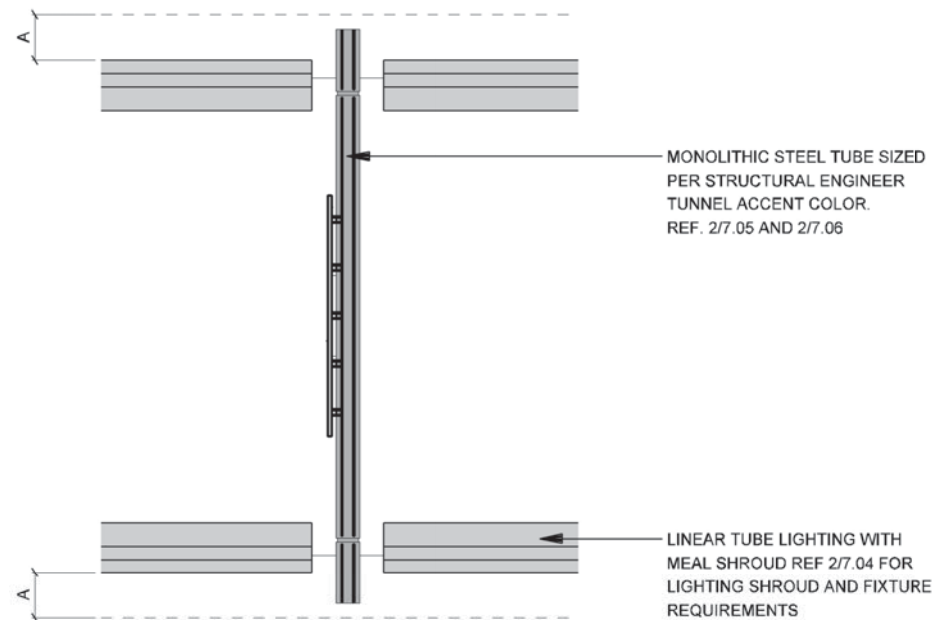
SIDE ELEVATION

NOTE:  
DEVELOPER SHALL USE LINEAR TUBE LIGHTING  
FOR LIGHTING OF THE TUNNELS.

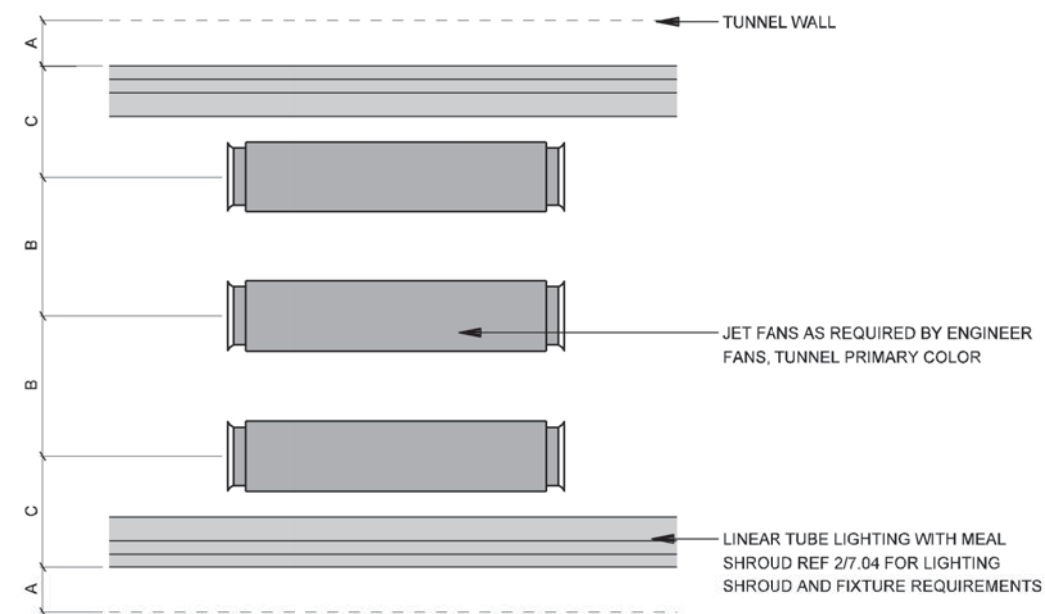


ISOMETRIC

2 TUNNEL LIGHTING  
SCALE: 1/4"=1'-0"



3 PLAN  
SIGNAGE - REFLECTED CEILING  
SCALE: 1/16"=1'-0"



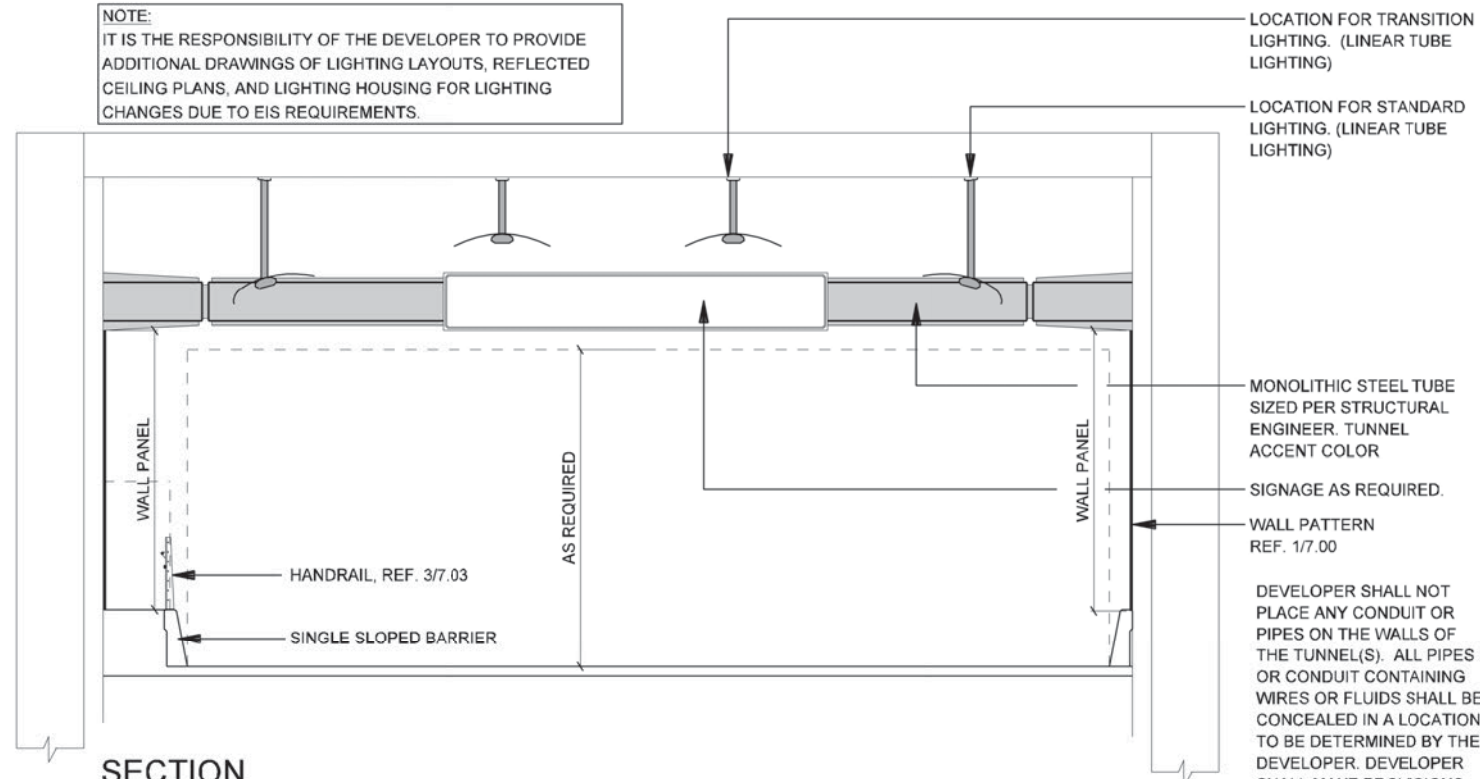
1 PLAN  
JET FANS - REFLECTED CEILING  
SCALE: 1/16"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

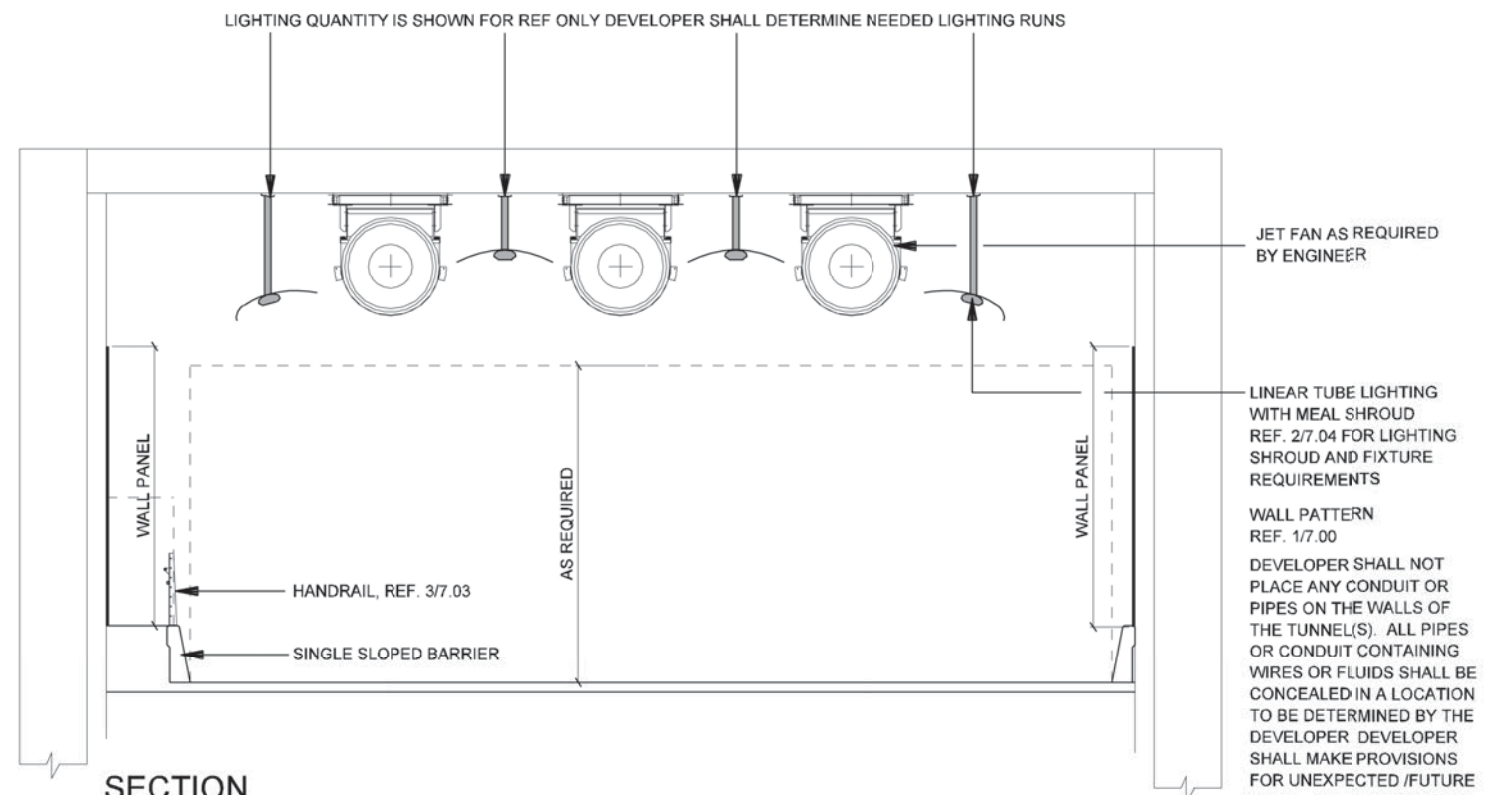
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: 7.04
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NOTE:  
IT IS THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE  
ADDITIONAL DRAWINGS OF LIGHTING LAYOUTS, REFLECTED  
CEILING PLANS, AND LIGHTING HOUSING FOR LIGHTING  
CHANGES DUE TO EIS REQUIREMENTS.



2 SECTION  
LIGHTING / SIGNAGE - CUT AND COVER TUNNEL  
SCALE: 1"=10'-0"



1 SECTION  
LIGHTING / JET FANS - CUT AND COVER TUNNEL  
SCALE: 1"=10'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE  
SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

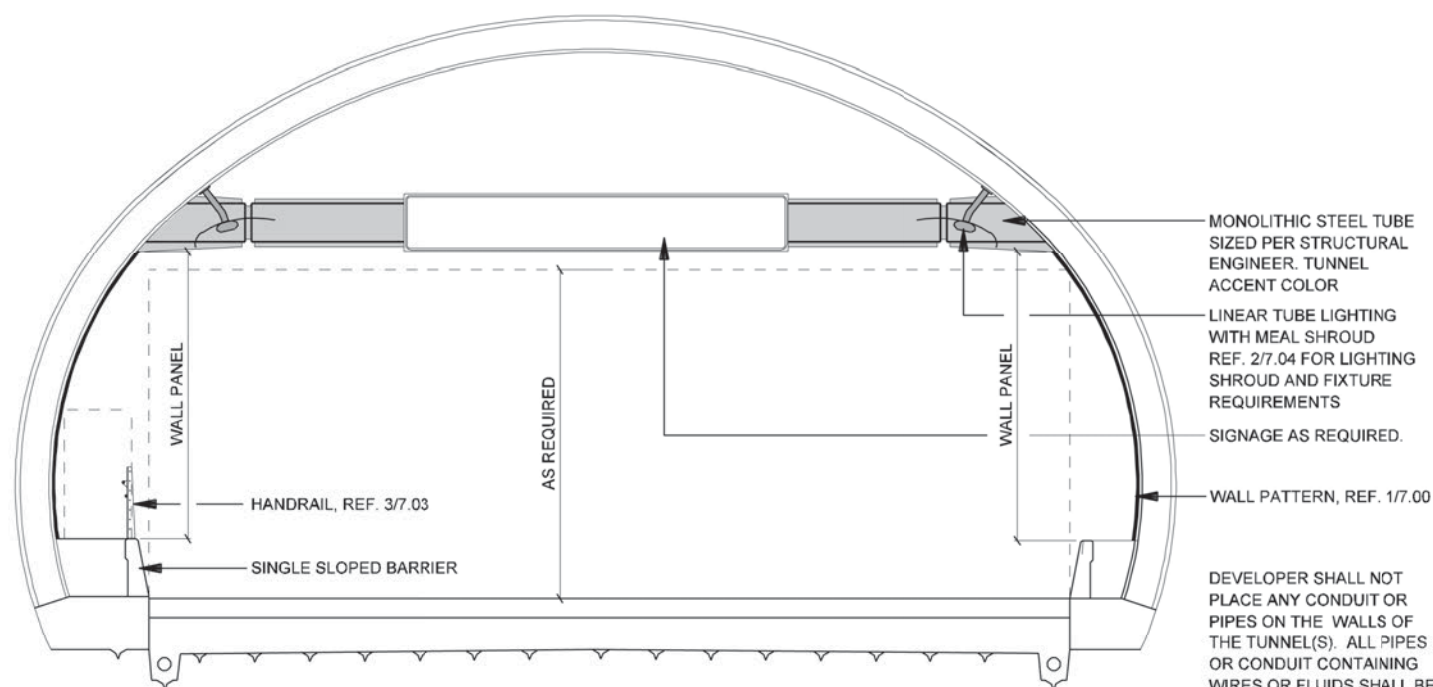
DATE:  
09/12/2007

SCALE:  
AS NOTED

SHEET CONTENTS:  
TUNNEL AESTHETICS

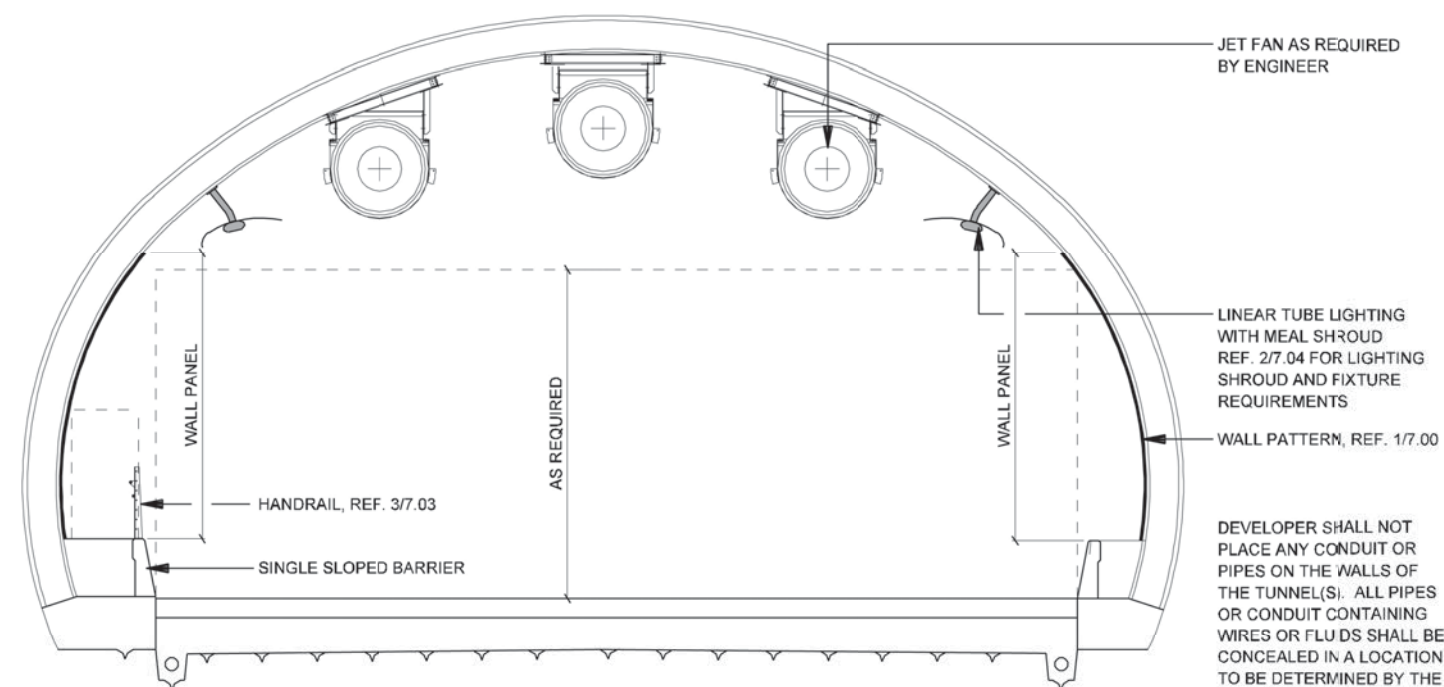
ATTACHMENT:  
15-1A

SHEET NUMBER:  
7.05



**SECTION 2**  
**LIGHTING / SIGNAGE - MINED TUNNEL**  
 SCALE: 1"=10'-0"

DEVELOPER SHALL NOT PLACE ANY CONDUIT OR PIPES ON THE WALLS OF THE TUNNEL(S). ALL PIPES OR CONDUIT CONTAINING WIRES OR FLUIDS SHALL BE CONCEALED IN A LOCATION TO BE DETERMINED BY THE DEVELOPER. DEVELOPER SHALL MAKE PROVISIONS FOR UNEXPECTED /FUTURE WIRES, PIPES, OR CONDUIT.

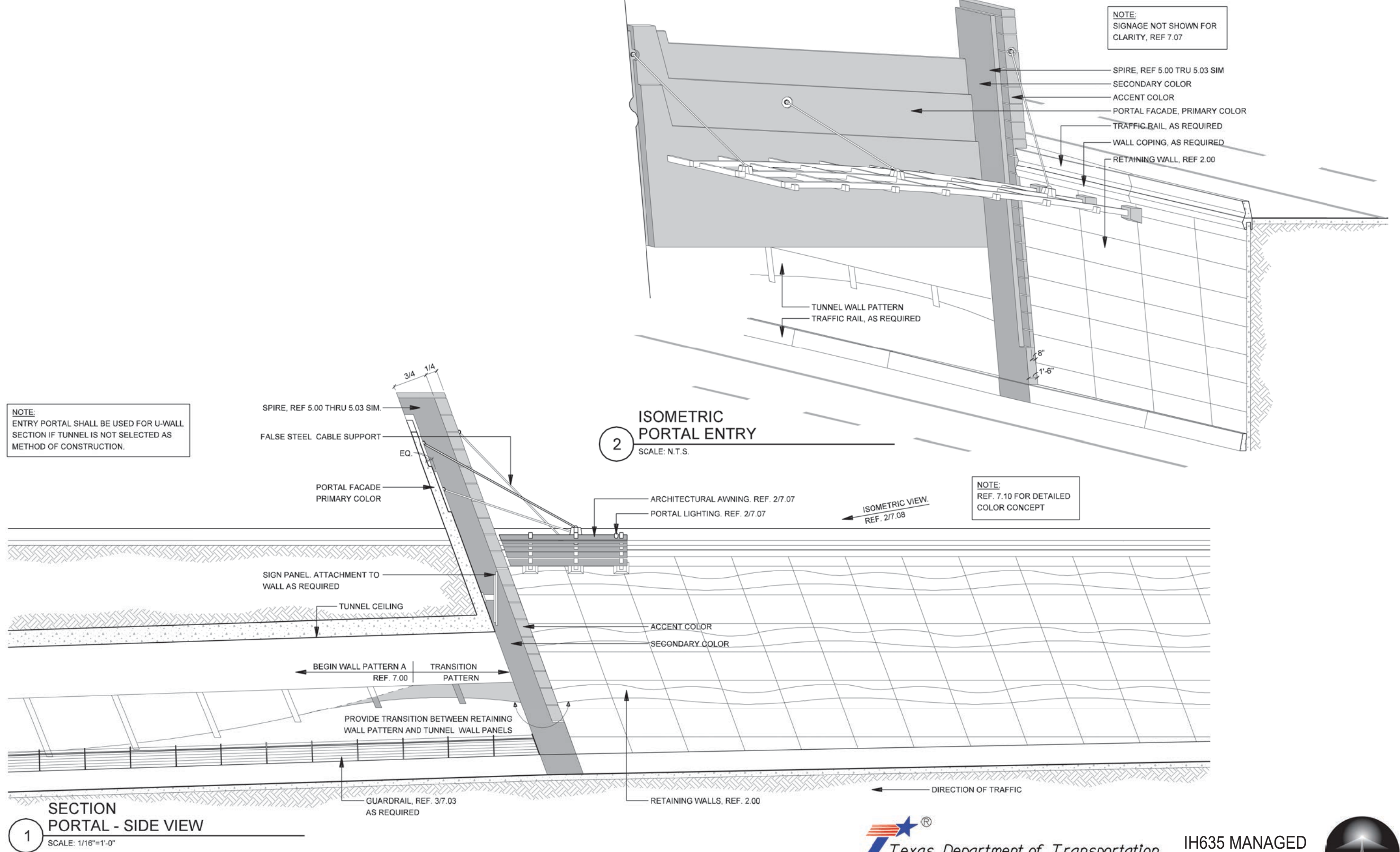


**SECTION 1**  
**LIGHTING / JET FANS - MINED TUNNEL**  
 SCALE: 1"=10'-0"

DEVELOPER SHALL NOT PLACE ANY CONDUIT OR PIPES ON THE WALLS OF THE TUNNEL(S). ALL PIPES OR CONDUIT CONTAINING WIRES OR FLUIDS SHALL BE CONCEALED IN A LOCATION TO BE DETERMINED BY THE DEVELOPER. DEVELOPER SHALL MAKE PROVISIONS FOR UNEXPECTED /FUTURE WIRES, PIPES, OR CONDUIT.







NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

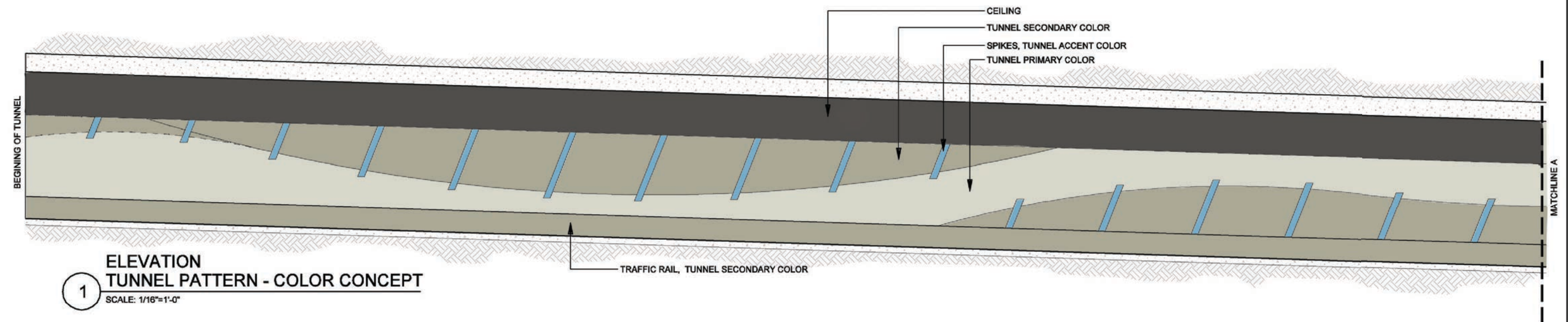
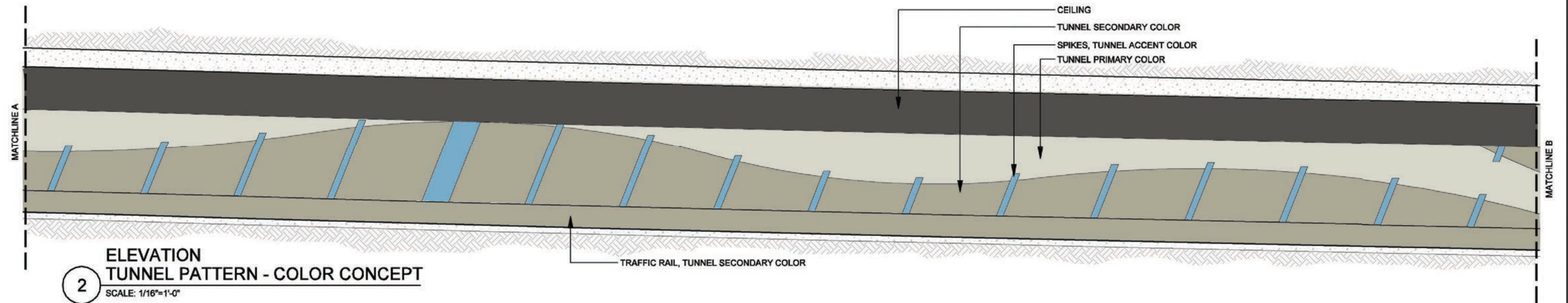
SCALE:  
AS NOTED

SHEET CONTENTS:  
TUNNEL AESTHETICS

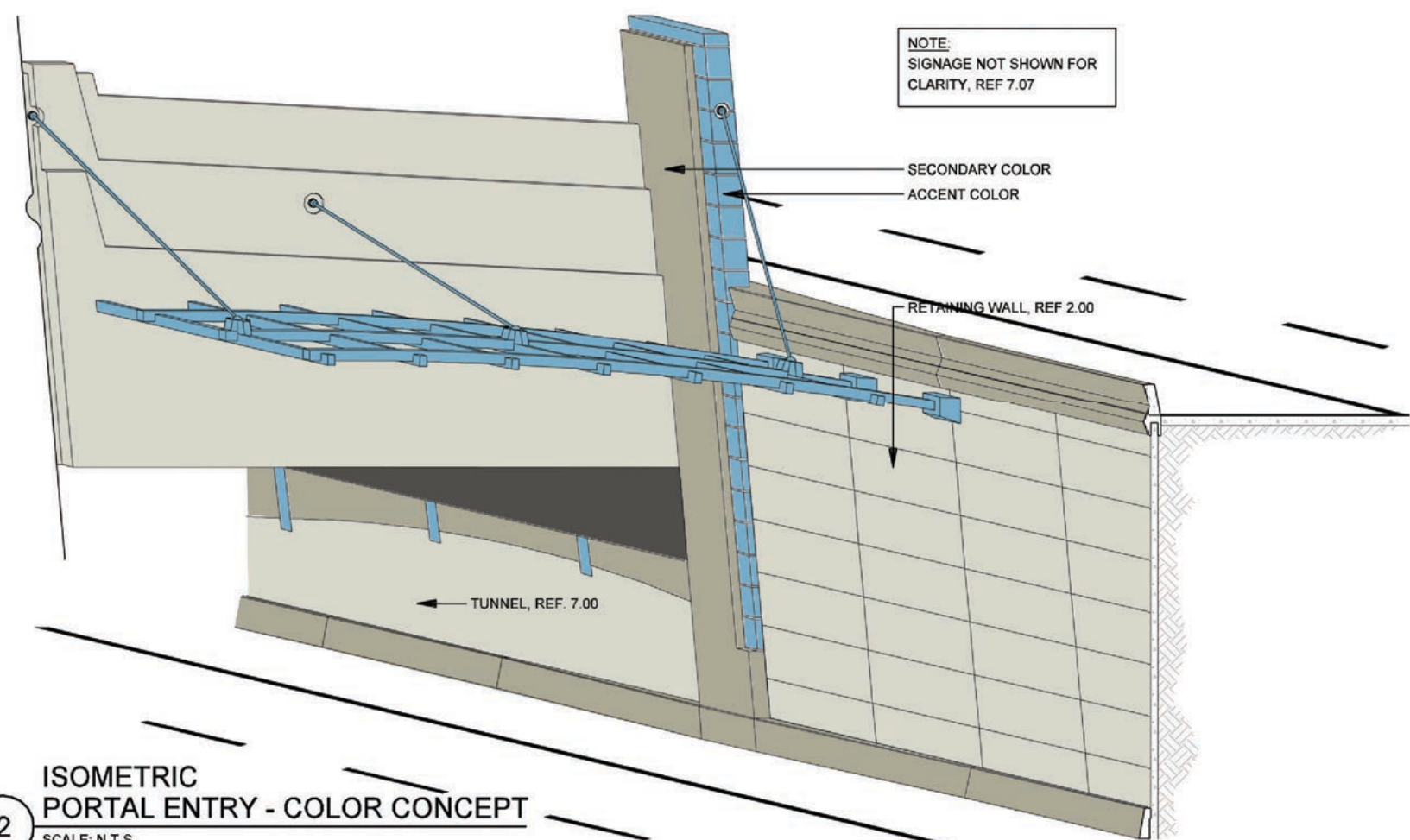
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**7.08**

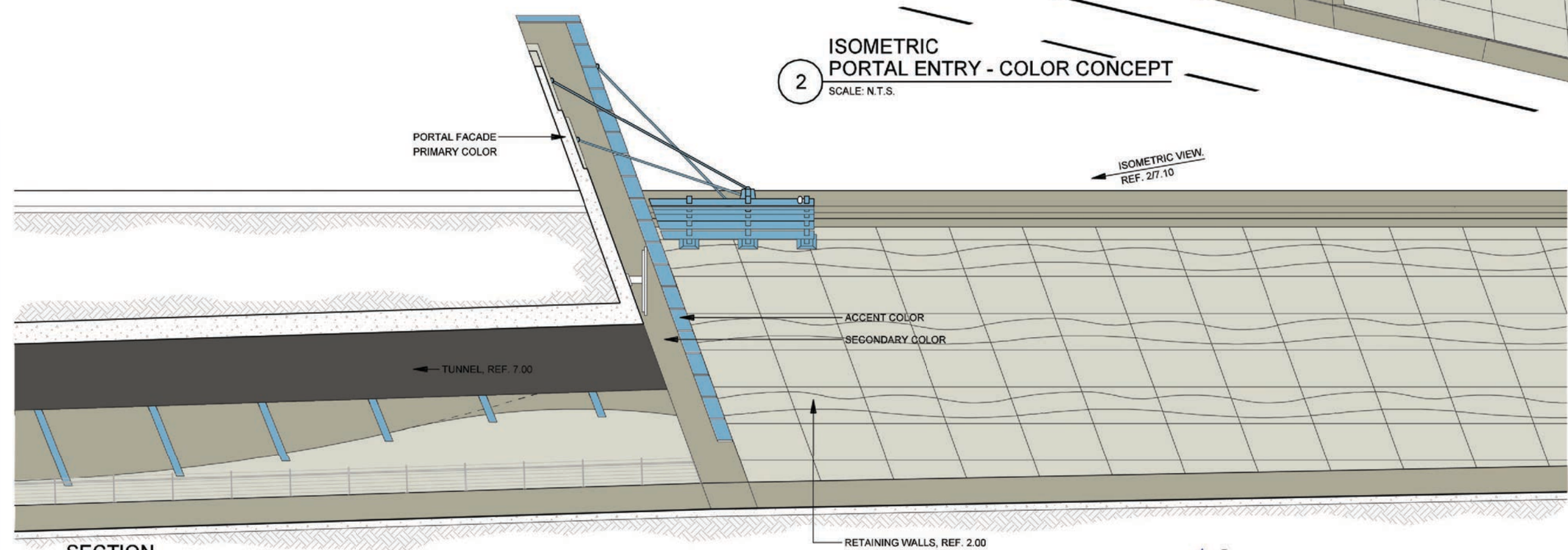








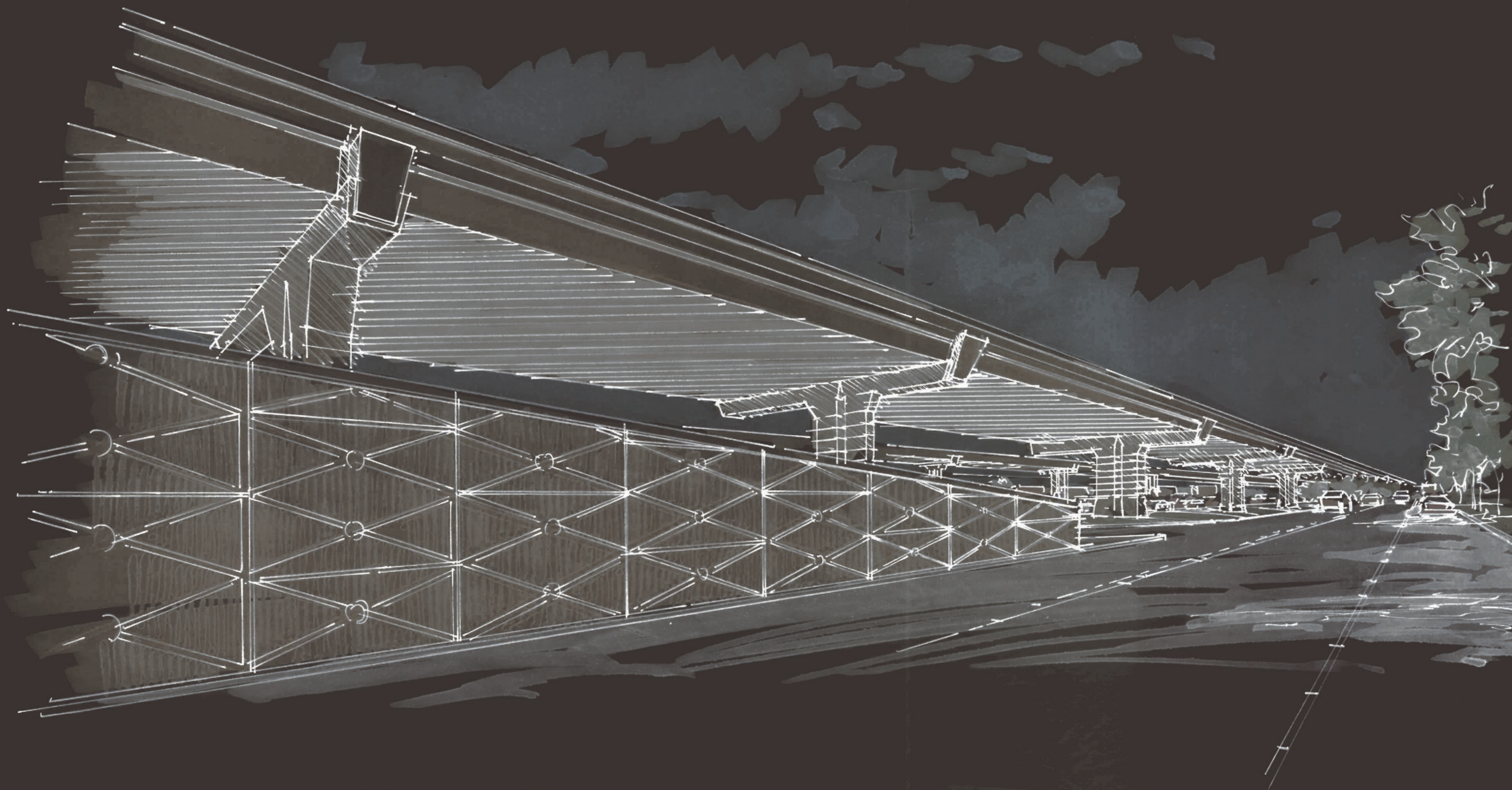
2  
ISOMETRIC  
PORTAL ENTRY - COLOR CONCEPT  
SCALE: N.T.S.



1  
SECTION  
PORTAL - COLOR CONCEPT  
SCALE: 1/16"=1'-0"

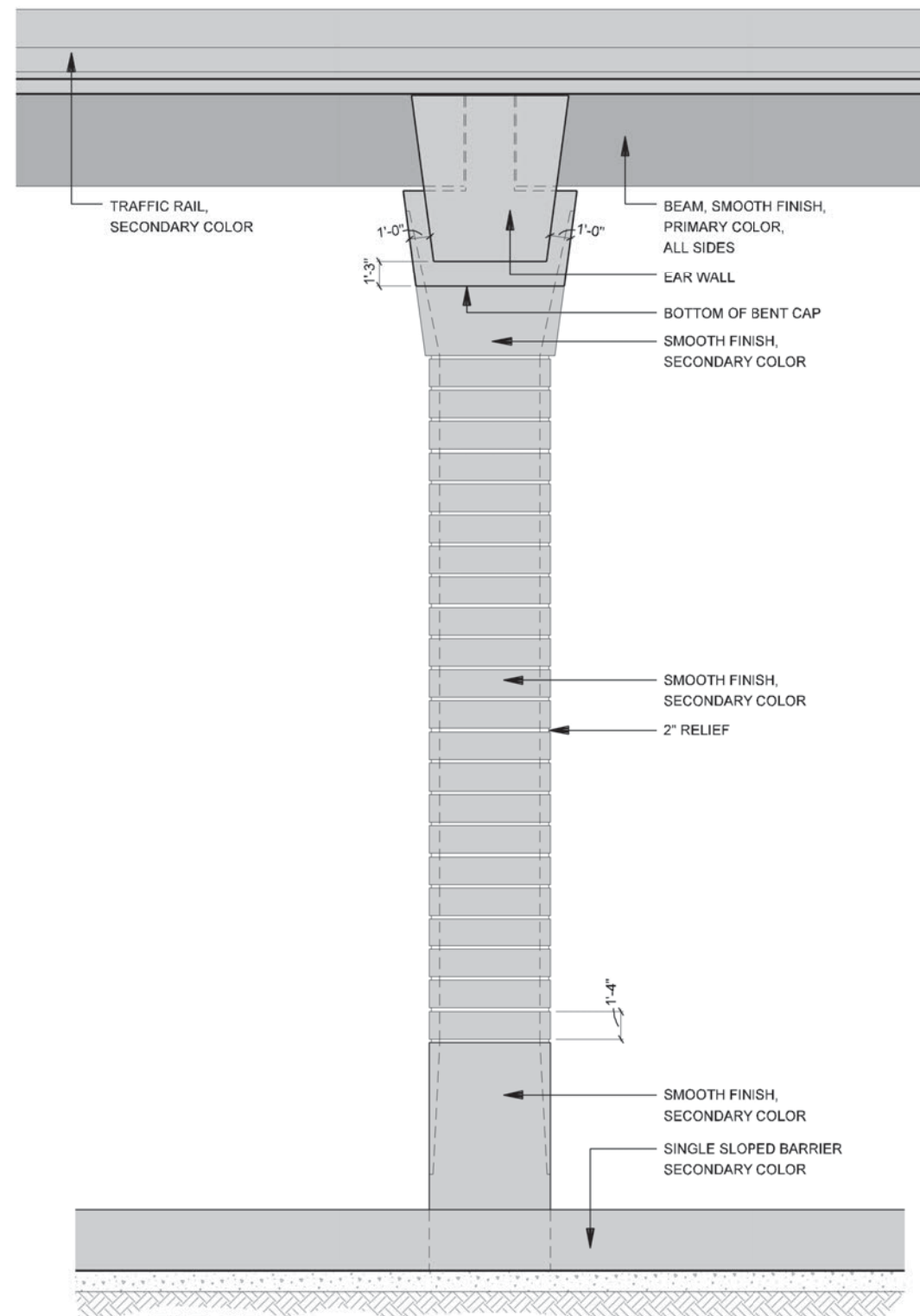
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: 7.10
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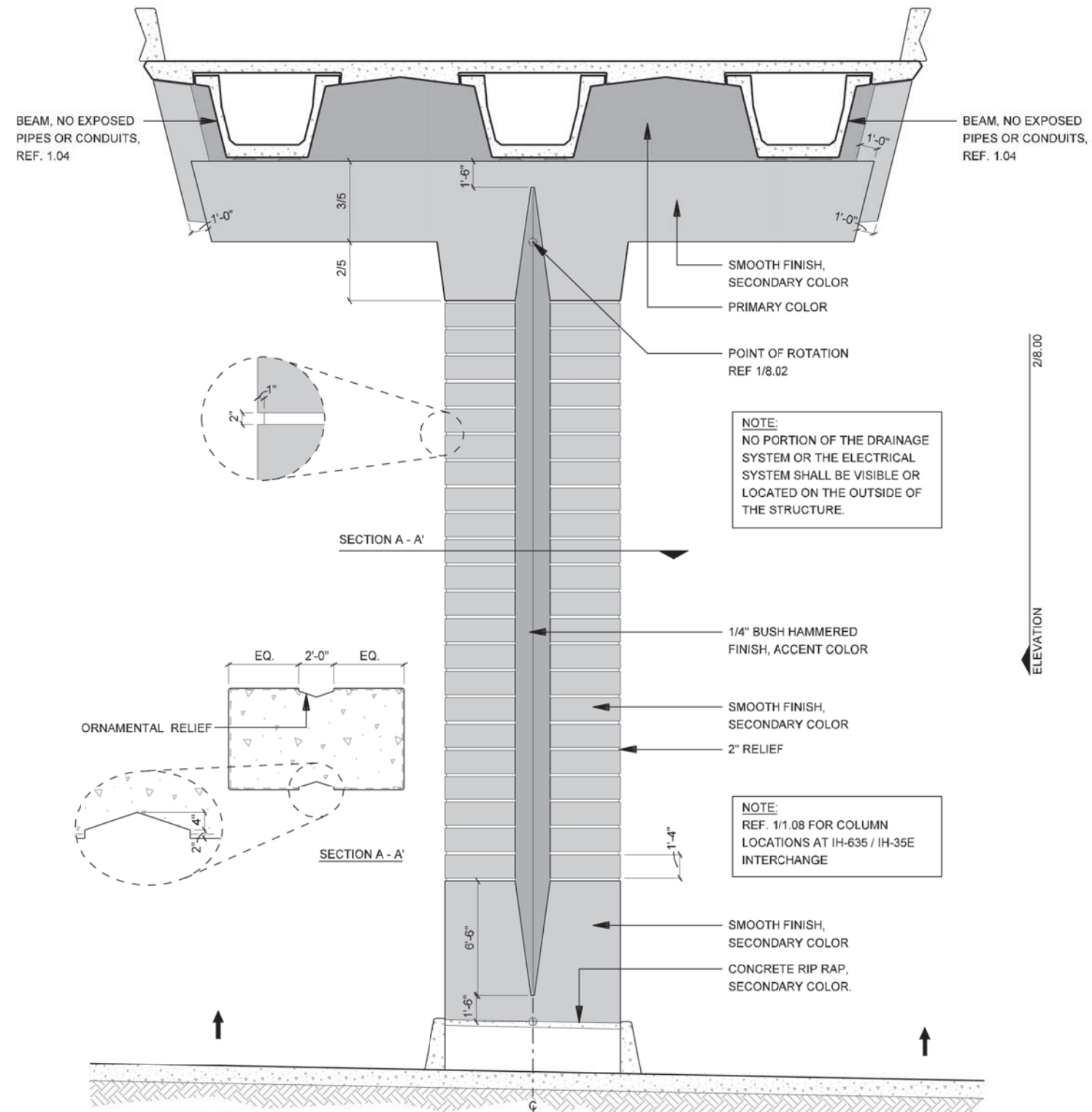


IH-35 CORRIDOR





**ELEVATION**  
**2 IH-35E ELEVATED MAINLANES COLUMN - SIDE VIEW**  
 SCALE: 1/8"=1'-0"



**ELEVATION**  
**1 IH-35E ELEVATED MAINLANES COLUMN - FRONT VIEW**  
 SCALE: 1/8"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
 09/12/2007

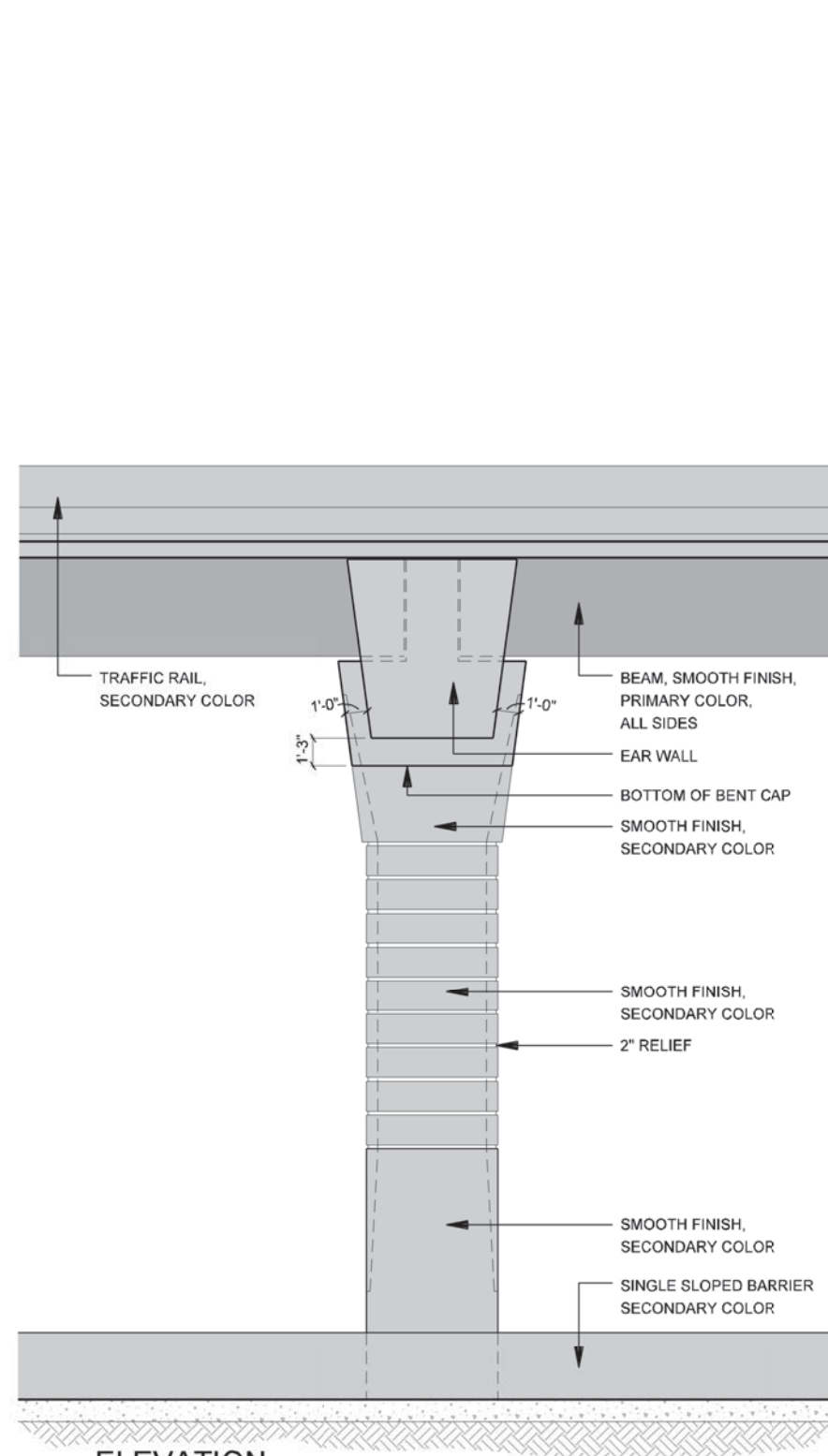
SCALE:  
 AS NOTED

SHEET CONTENTS:  
 IH-35E COLUMNS

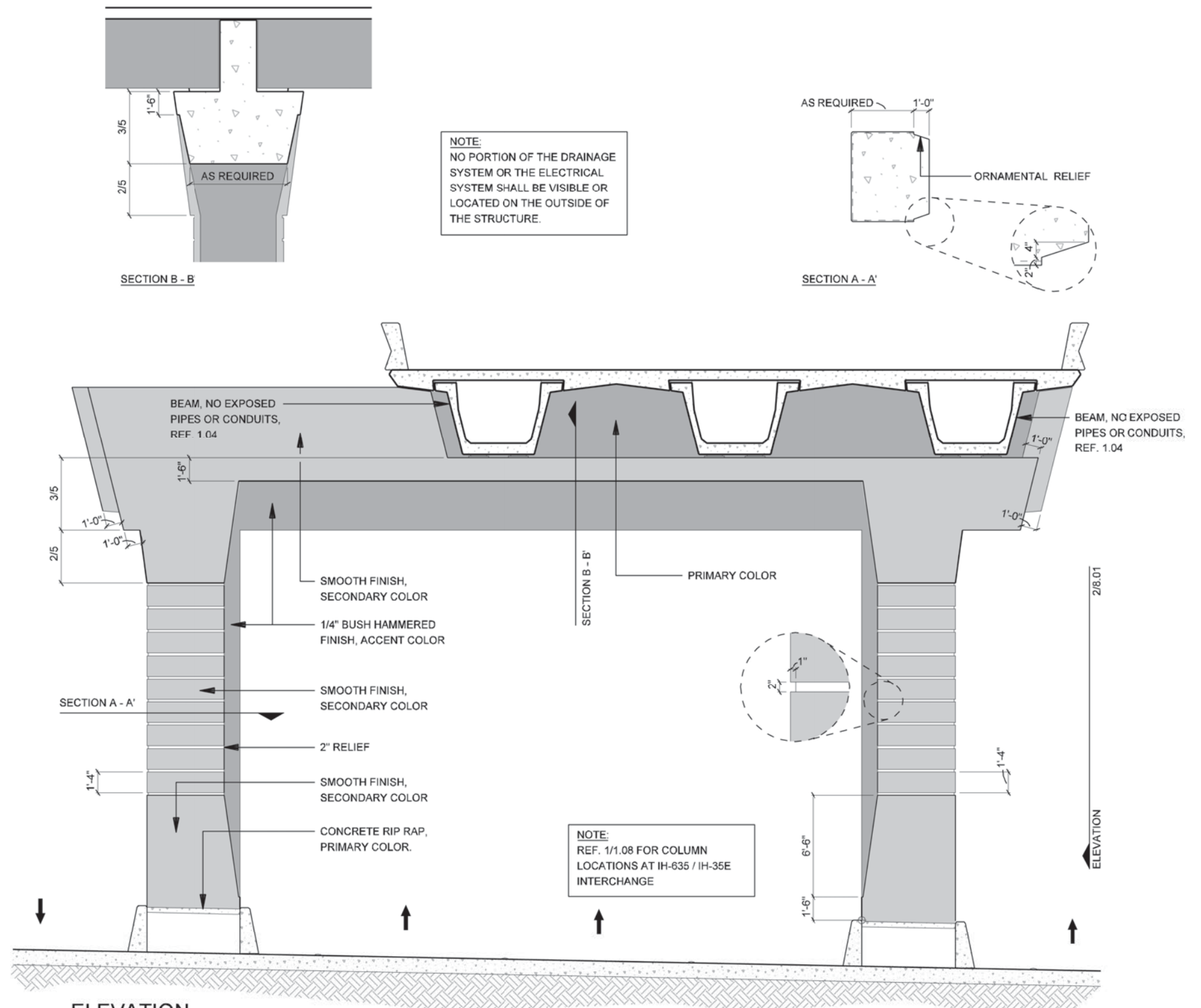
ATTACHMENT:  
 15-1A

SHEET NUMBER:  
**8.00**

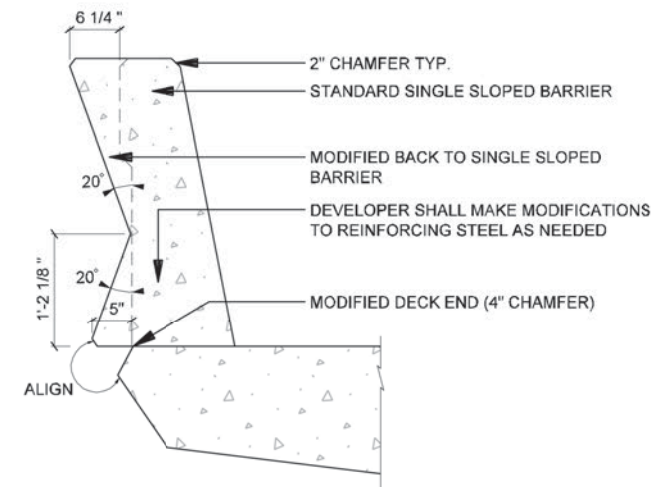




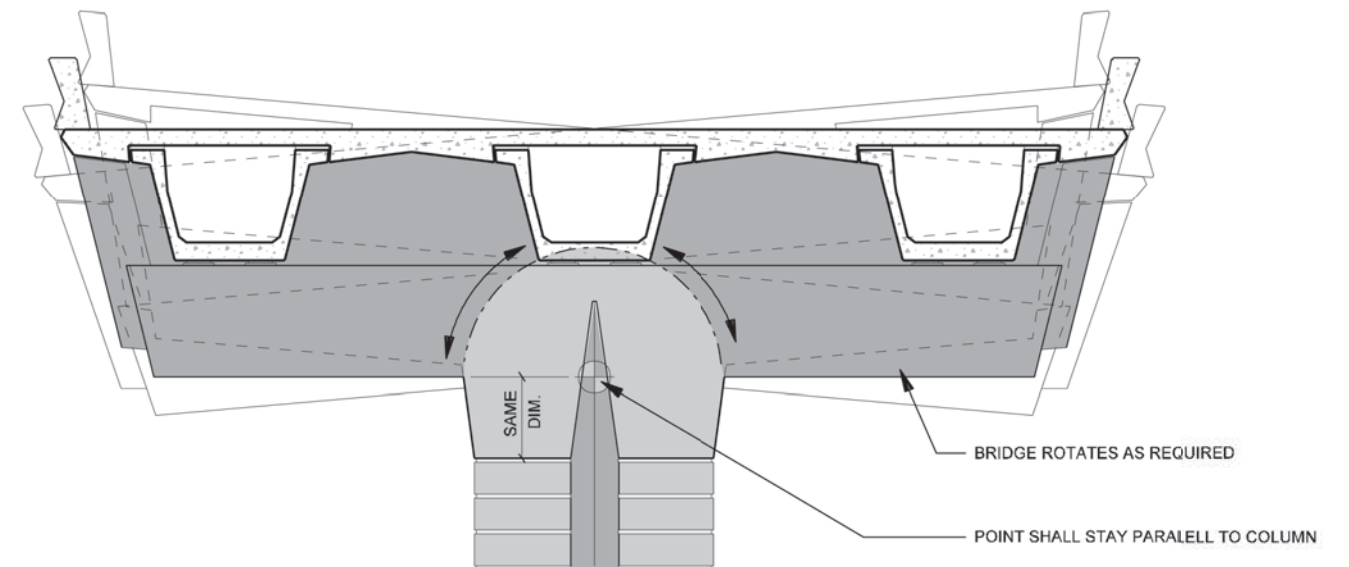
**2** ELEVATION  
IH-35E ELEVATED MAINLANES COLUMN - SIDE VIEW  
SCALE: 1/8"=1'-0"



**1** ELEVATION  
IH-35E ELEVATED MAINLANES COLUMN - FRONT VIEW  
SCALE: 1/8"=1'-0"

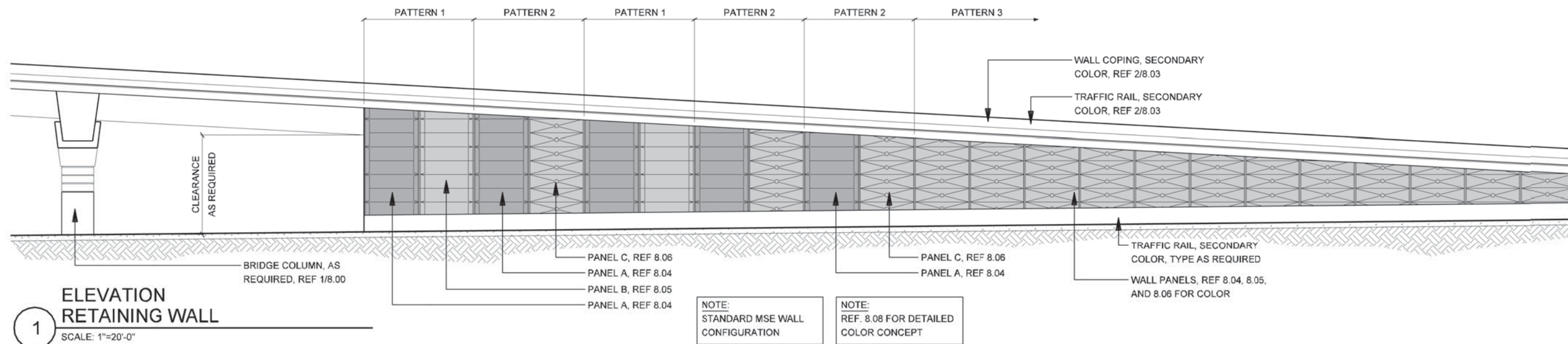
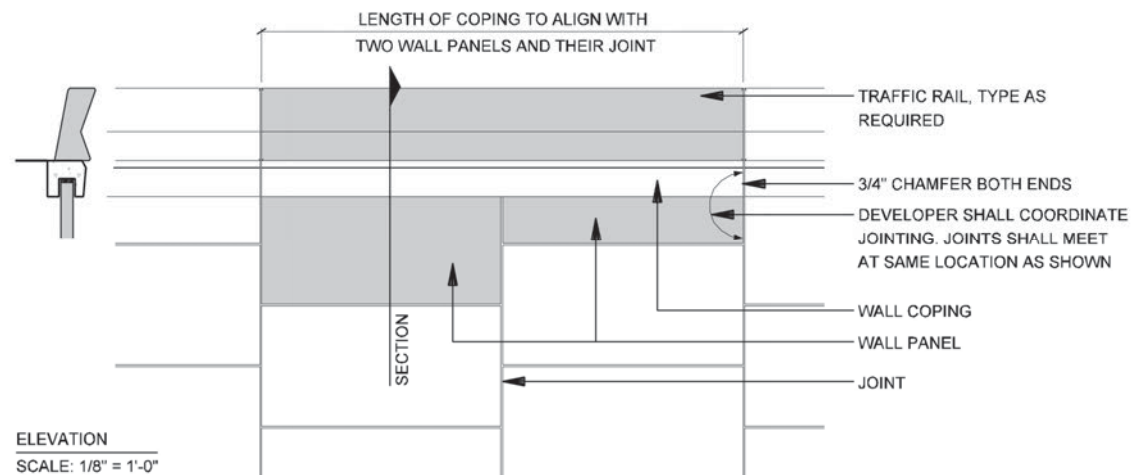
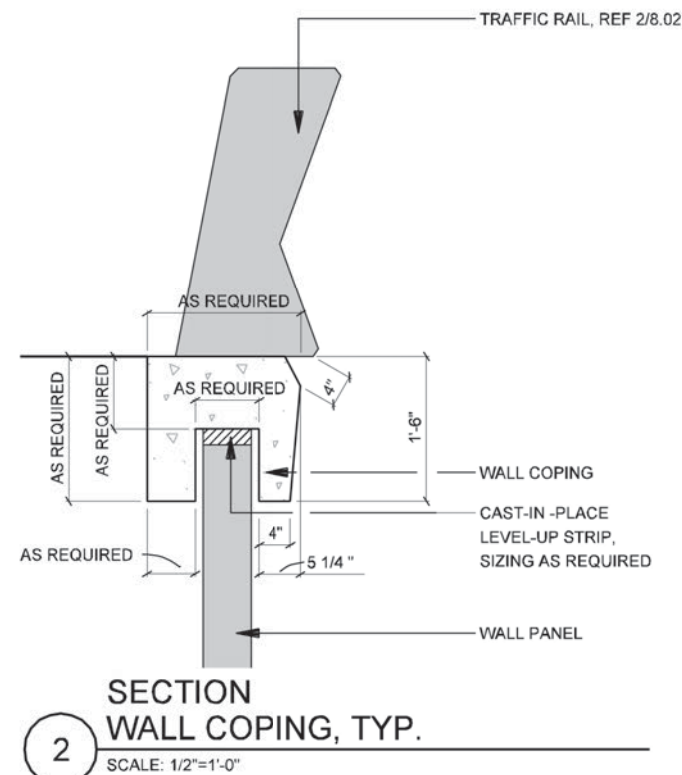


**SECTION**  
**MODIFIED SINGLE SLOPED BARRIER**  
SCALE: 1/2"=1'-0"



**ELEVATION**  
**COLUMN - ROTATION DIAGRAM**  
SCALE: 1/8"=1'-0"





NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

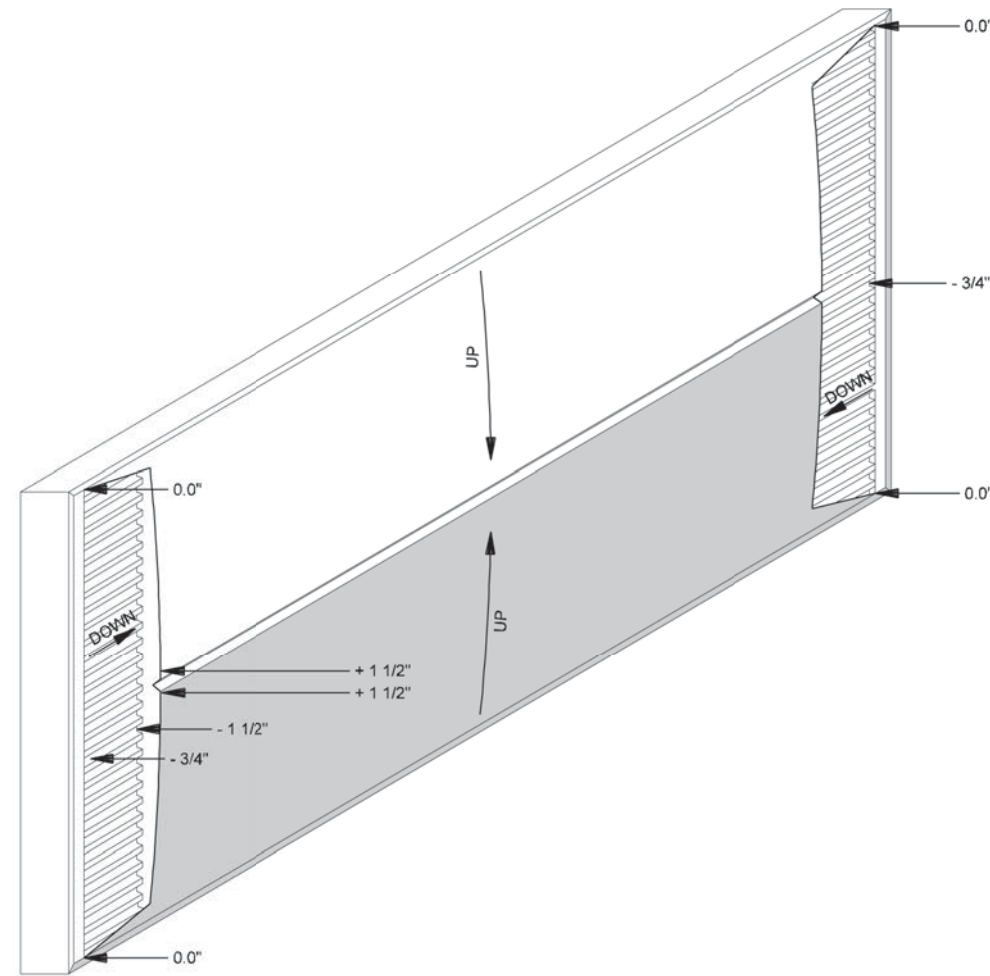
DATE:  
09/12/2007

SCALE:  
AS NOTED

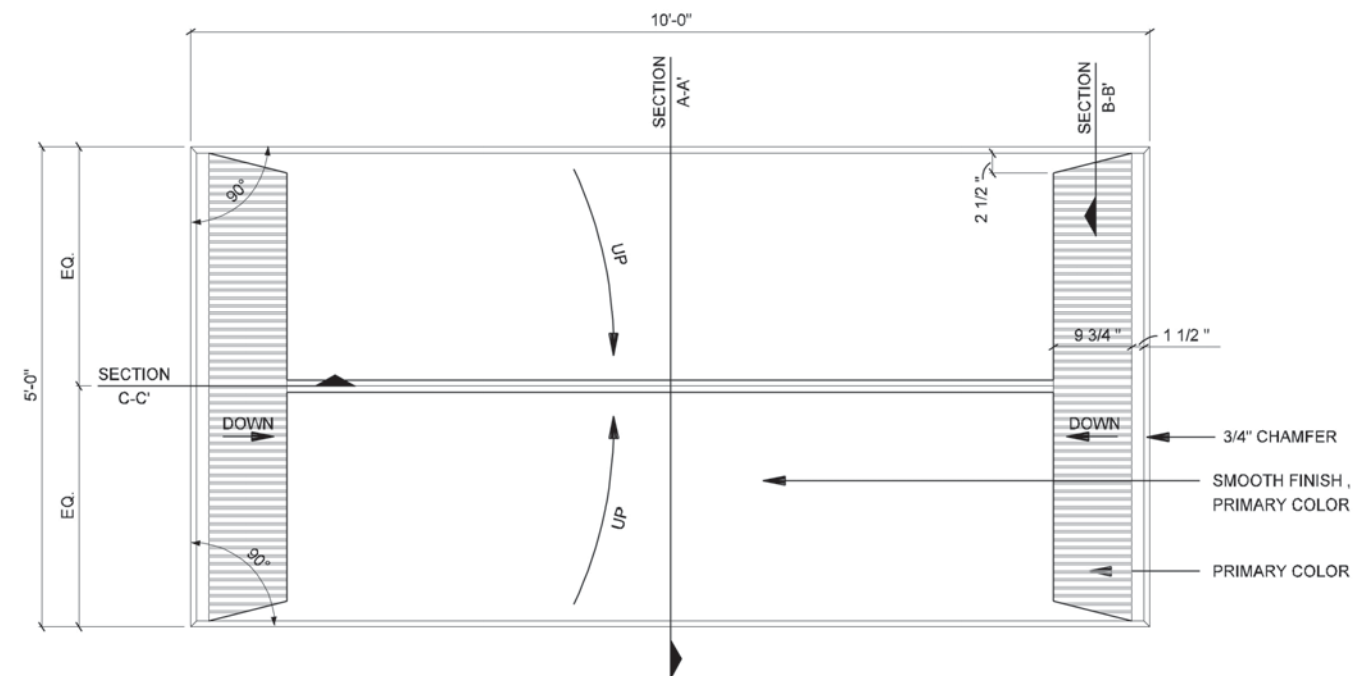
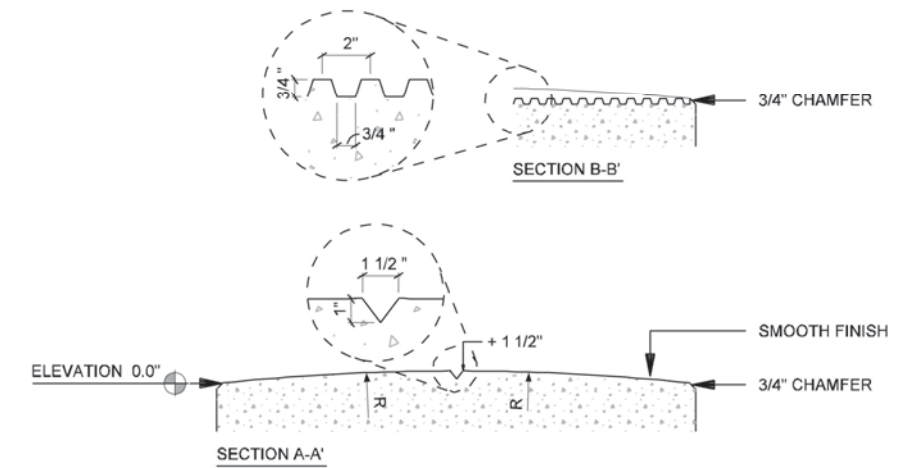
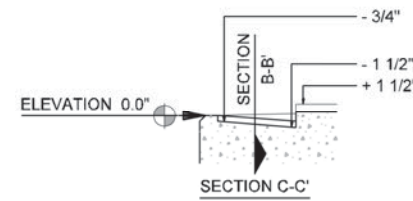
SHEET CONTENTS:  
IH-35E RETAINING WALLS

ATTACHMENT:  
15-1A

SHEET NUMBER:  
**8.03**



ISOMETRIC VIEW



SECTION WALL PANEL A

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

NOTES:

- PANELS ARE BASED ON A STANDARD STAGGERED MSE 5 x 10 PANEL (50 SF). CONTRACTOR TO PROVIDE DETAILED DRAWINGS WITH SAME DESIGN AND DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS USED



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-35E RETAINING WALLS

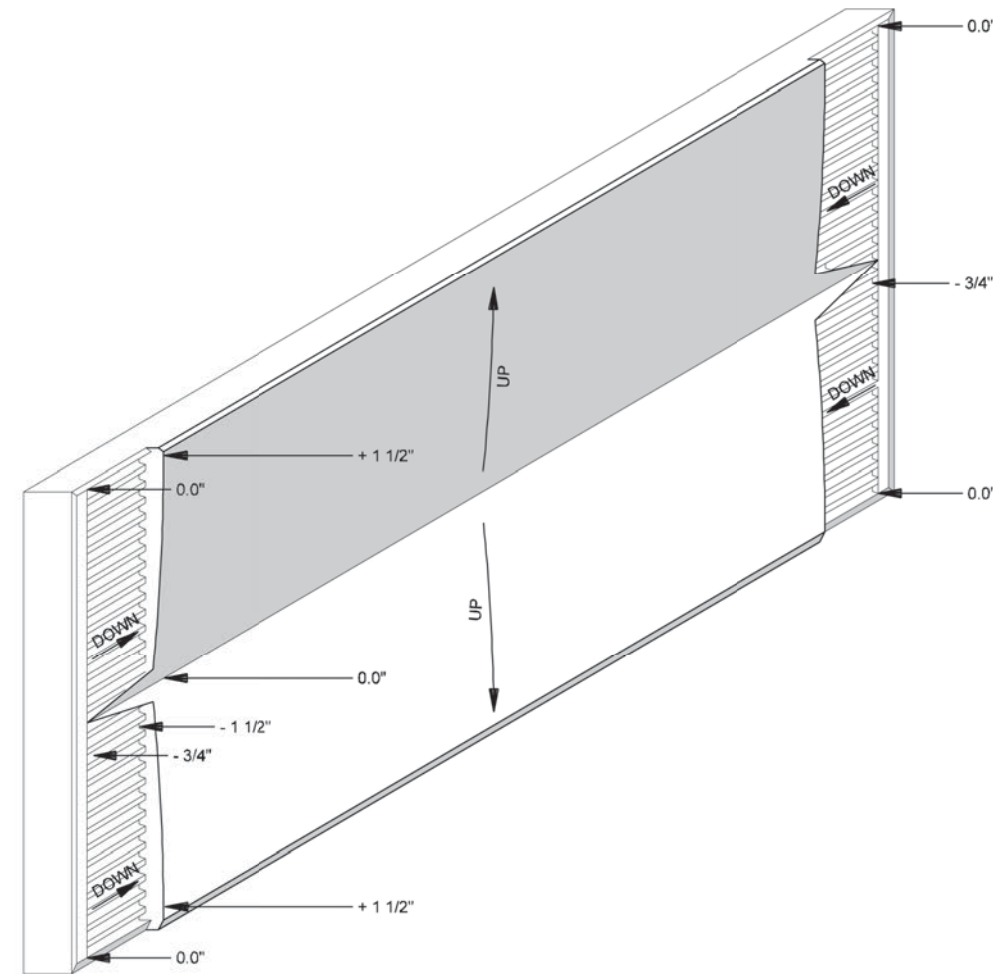
ATTACHMENT:

15-1A

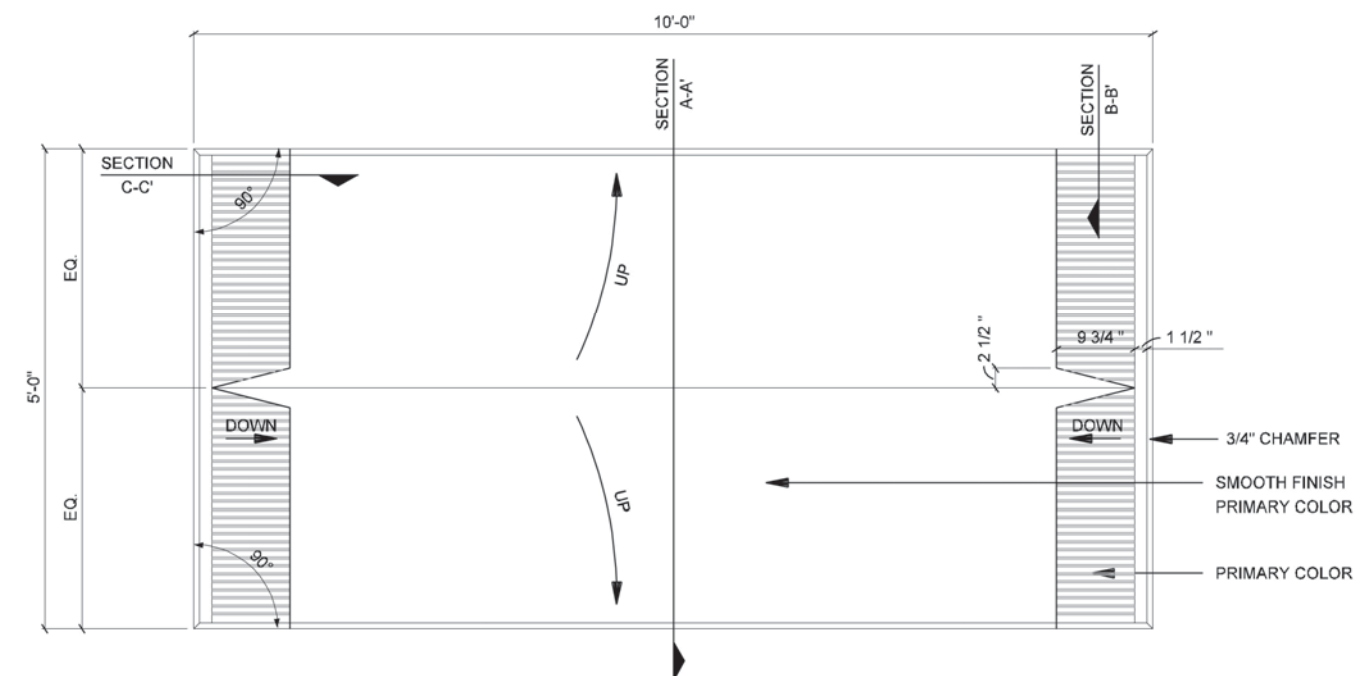
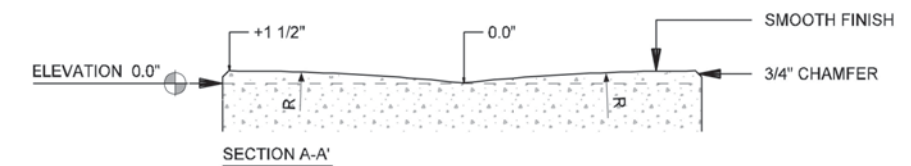
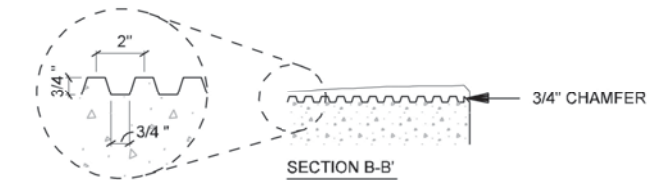
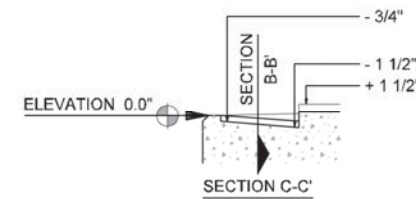
SHEET NUMBER:

8.04





ISOMETRIC VIEW



SECTION WALL PANEL B

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

NOTES:

- PANELS ARE BASED ON A STANDARD STAGGERED MSE 5 x 10 PANEL (50 SF). CONTRACTOR TO PROVIDE DETAILED DRAWINGS WITH SAME DESIGN AND DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS USED



IH635 MANAGED LANES PROJECT



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DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

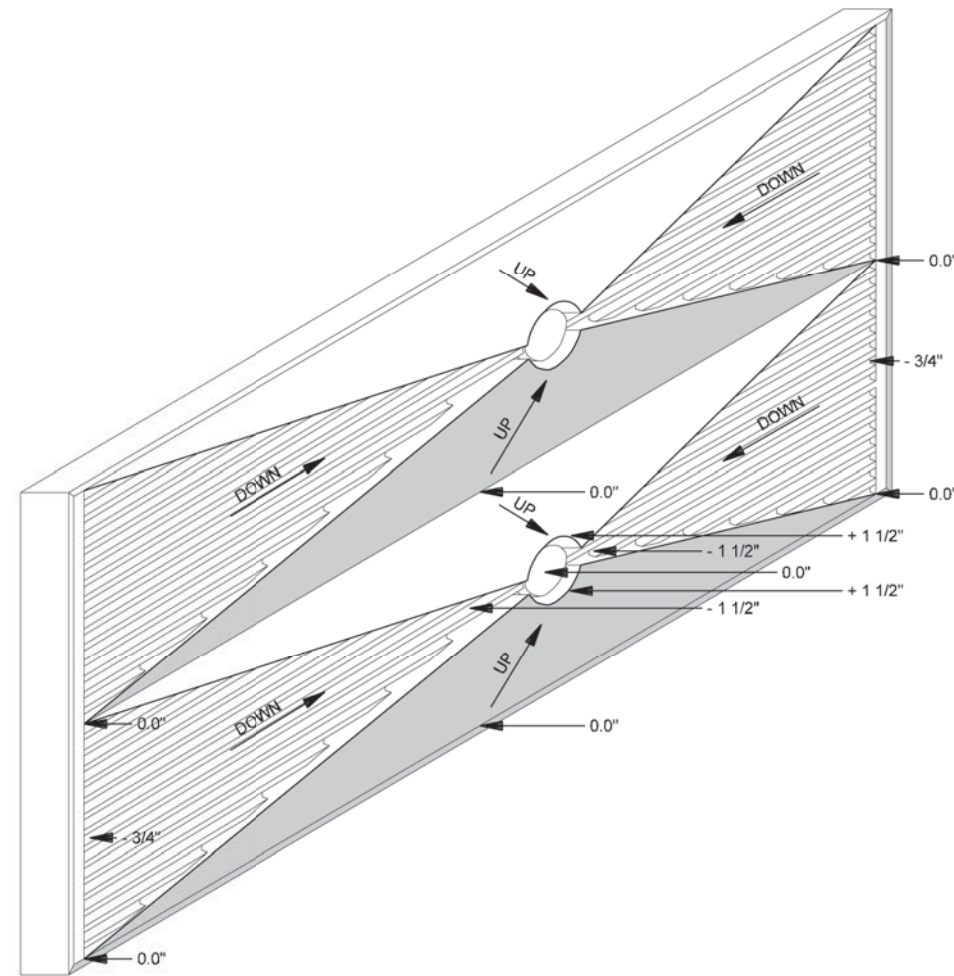
IH-35E RETAINING WALLS

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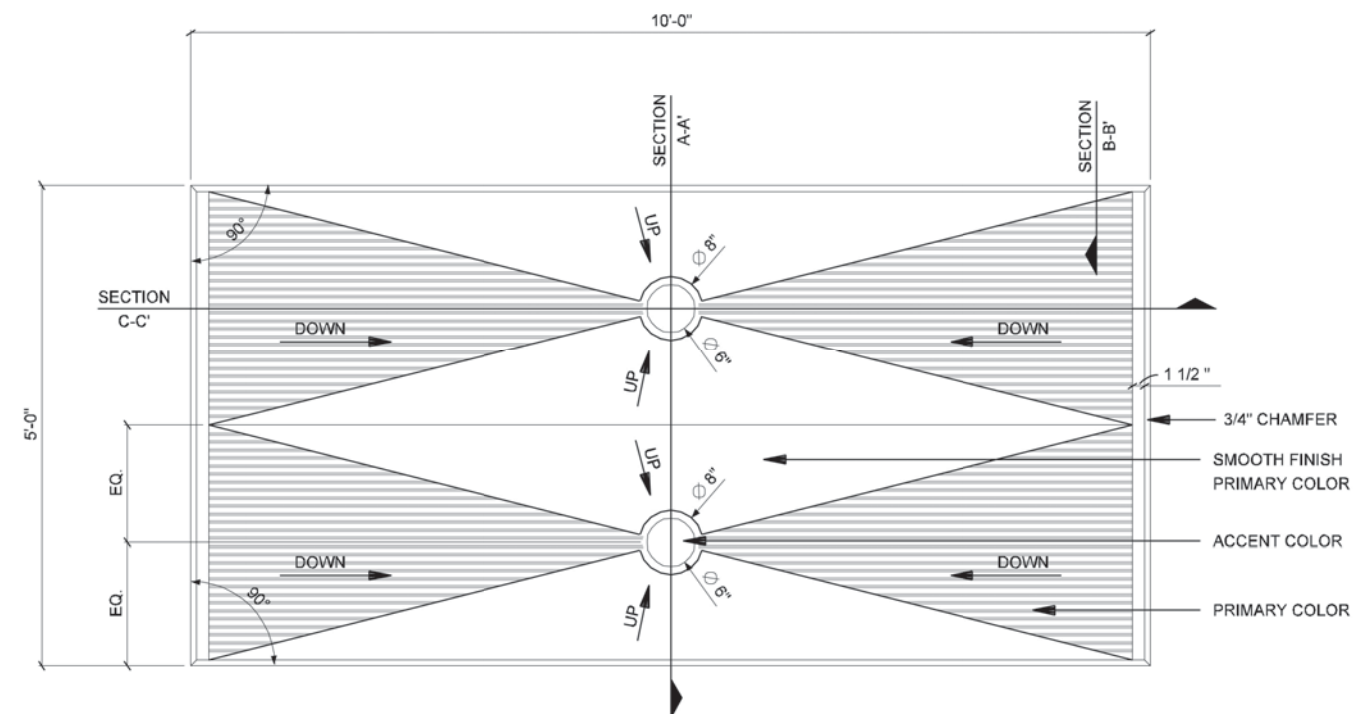
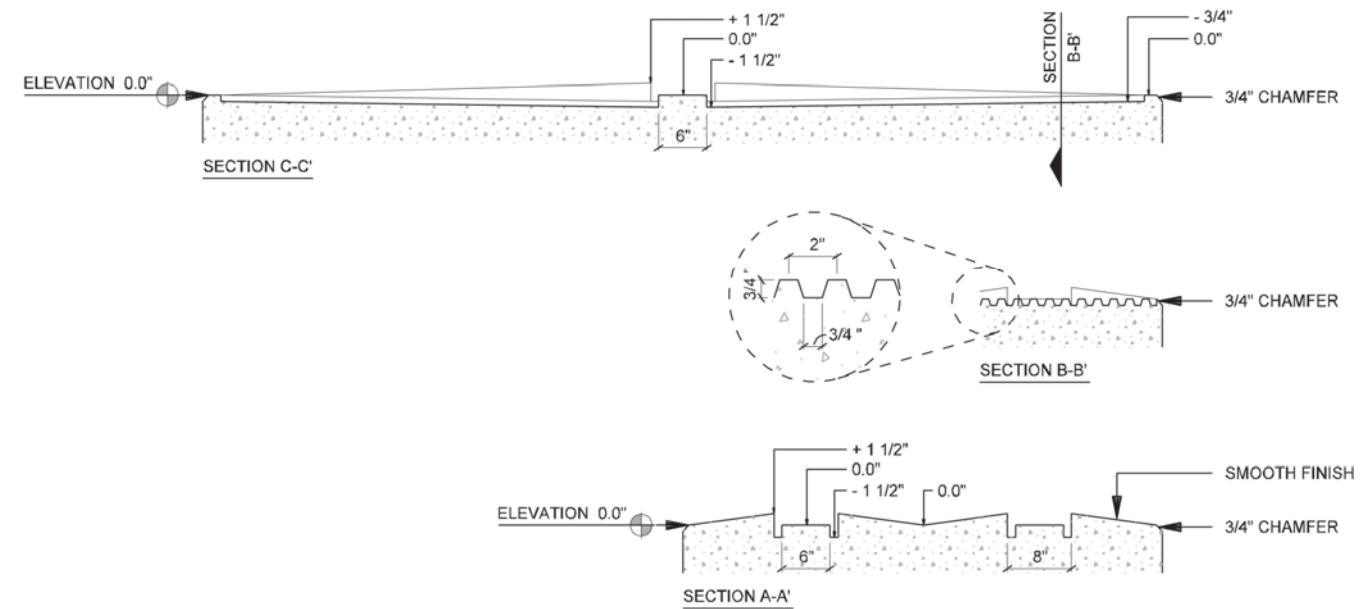
15-1A

SHEET NUMBER:

8.05



ISOMETRIC VIEW



SECTION WALL PANEL C

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

NOTES:

- PANELS ARE BASED ON A STANDARD STAGGERED MSE 5 x 10 PANEL (50 SF). CONTRACTOR TO PROVIDE DETAILED DRAWINGS WITH SAME DESIGN AND DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS USED

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-35E RETAINING WALLS

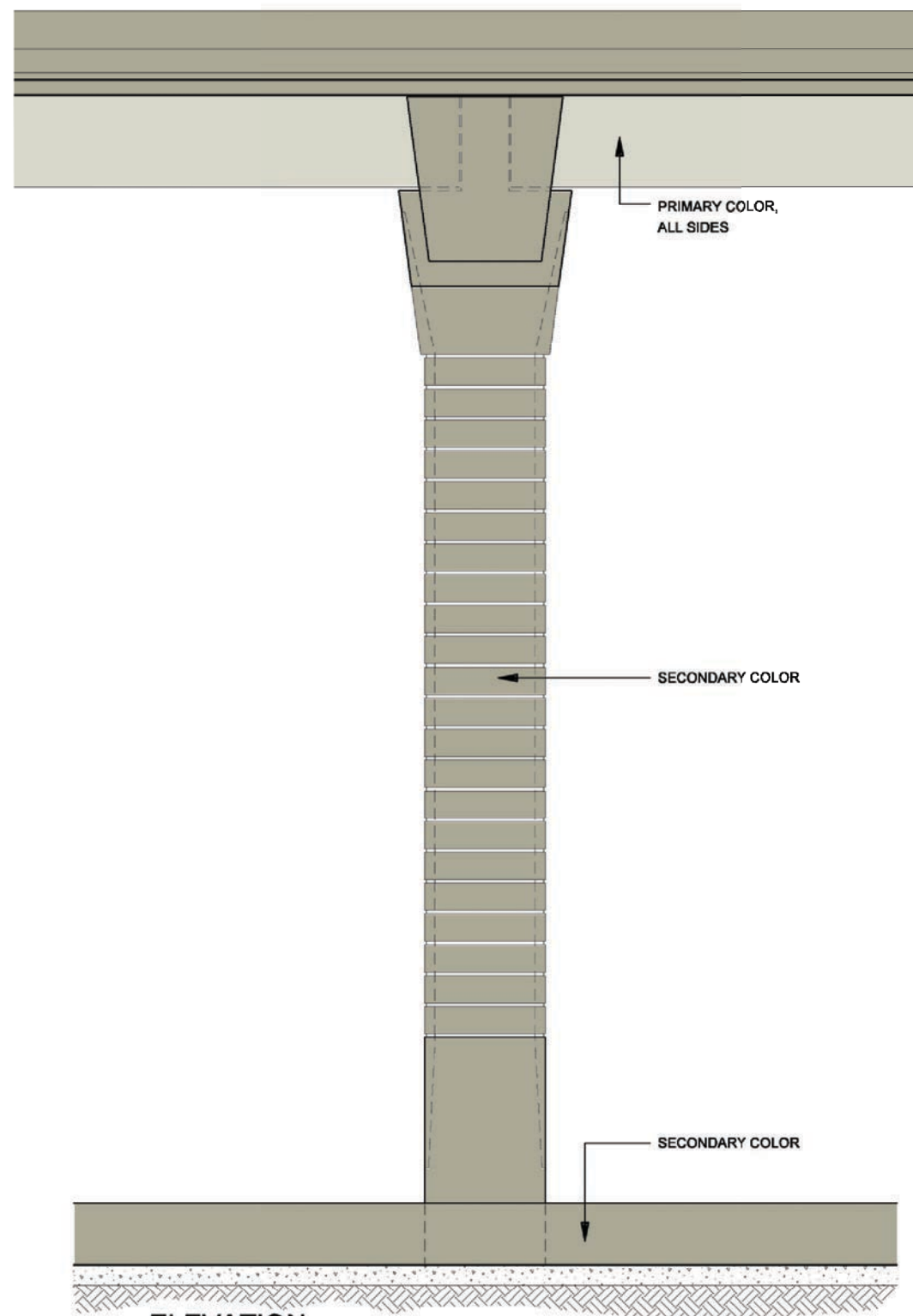
ATTACHMENT:

15-1A

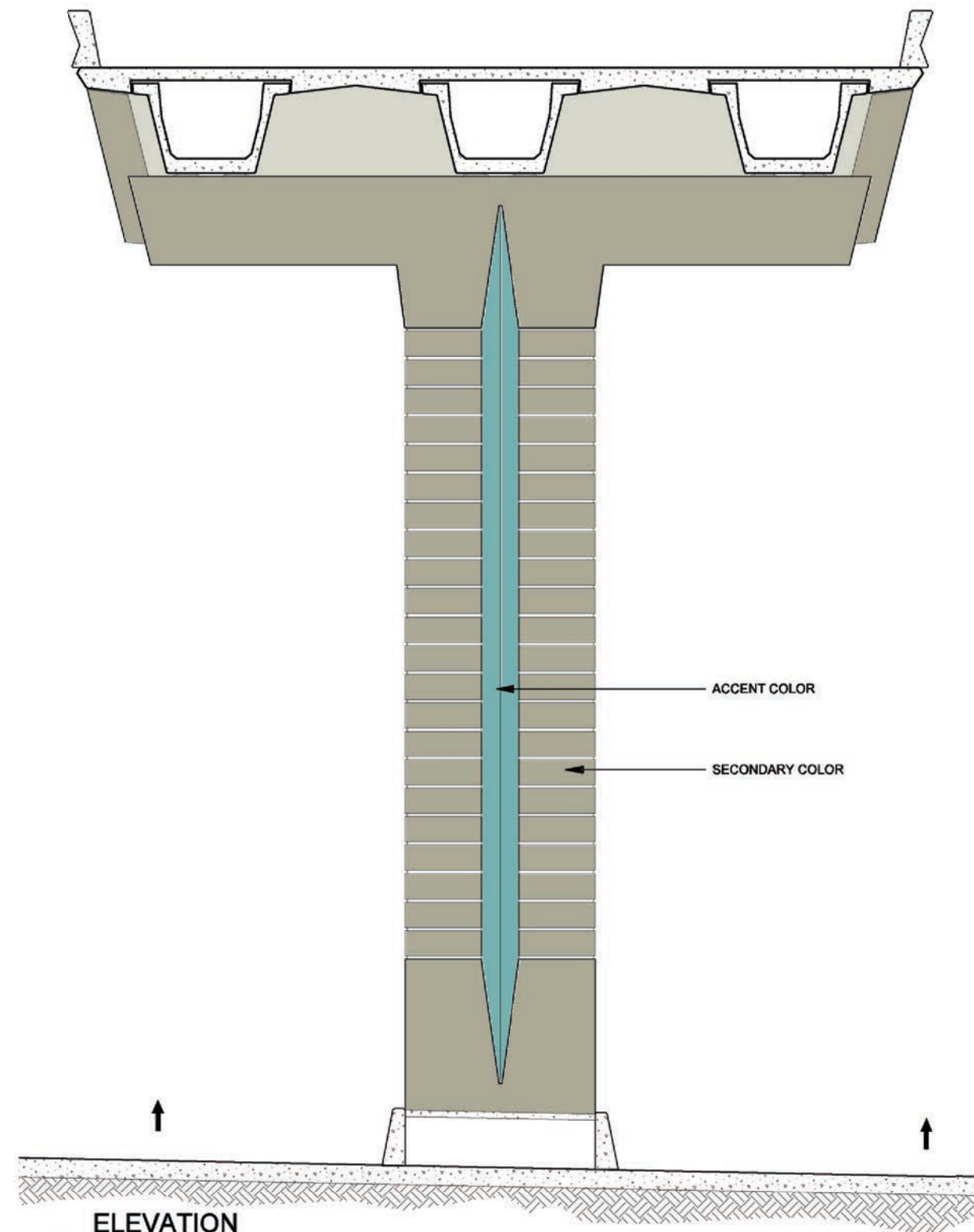
SHEET NUMBER:

8.06

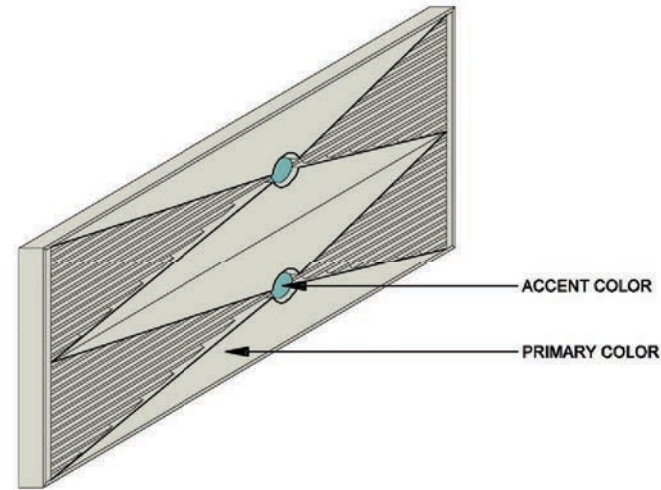




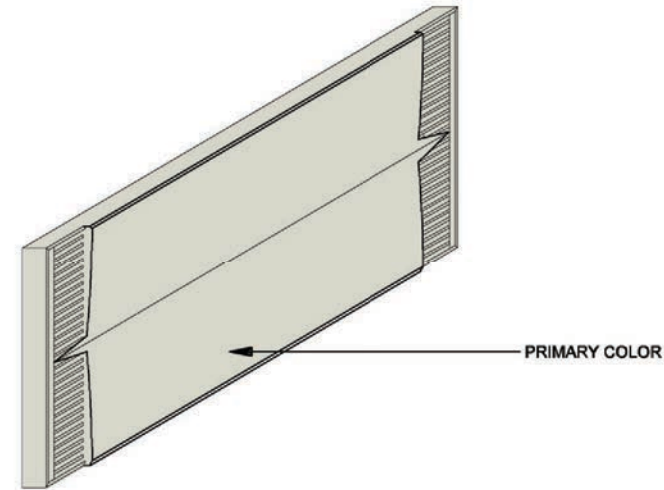
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IH-35E ELEVATED MAINLANES COLUMN - COLOR CONCEPT  
SCALE: 1/8"=1'-0"



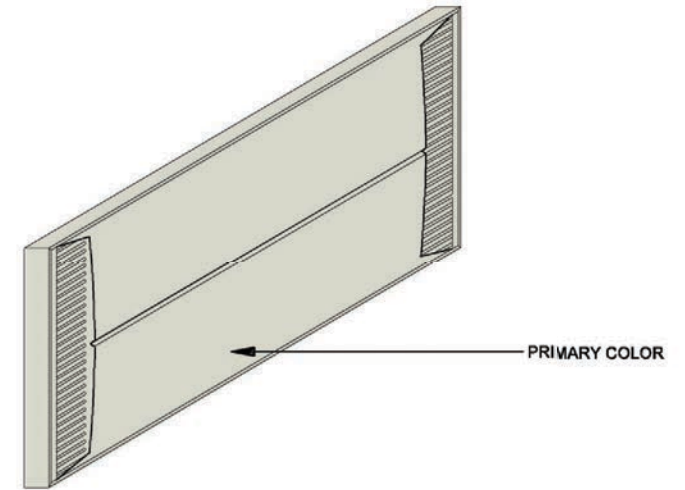
**1** ELEVATION  
IH-35E ELEVATED MAINLANES COLUMN - COLOR CONCEPT  
SCALE: 1/8"=1'-0"



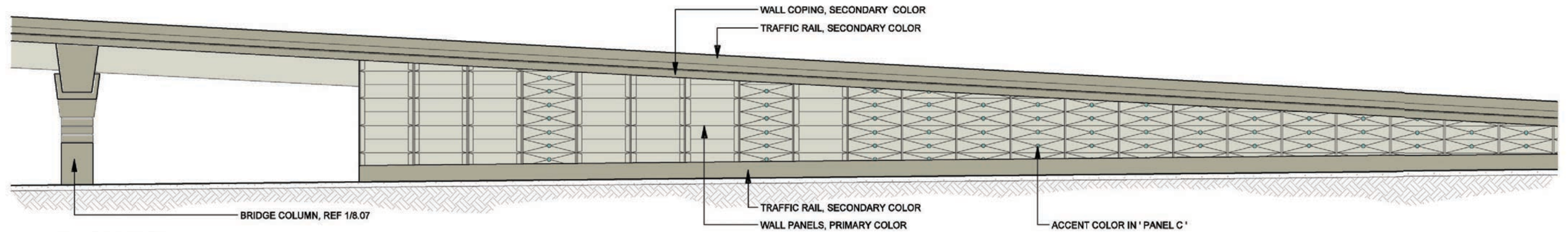
4 ISOMETRIC WALL PANEL C - COLOR CONCEPT  
SCALE: 1/4"=1'-0"



3 ISOMETRIC WALL PANEL B - COLOR CONCEPT  
SCALE: 1/4"=1'-0"



2 ISOMETRIC WALL PANEL A - COLOR CONCEPT  
SCALE: 1/4"=1'-0"

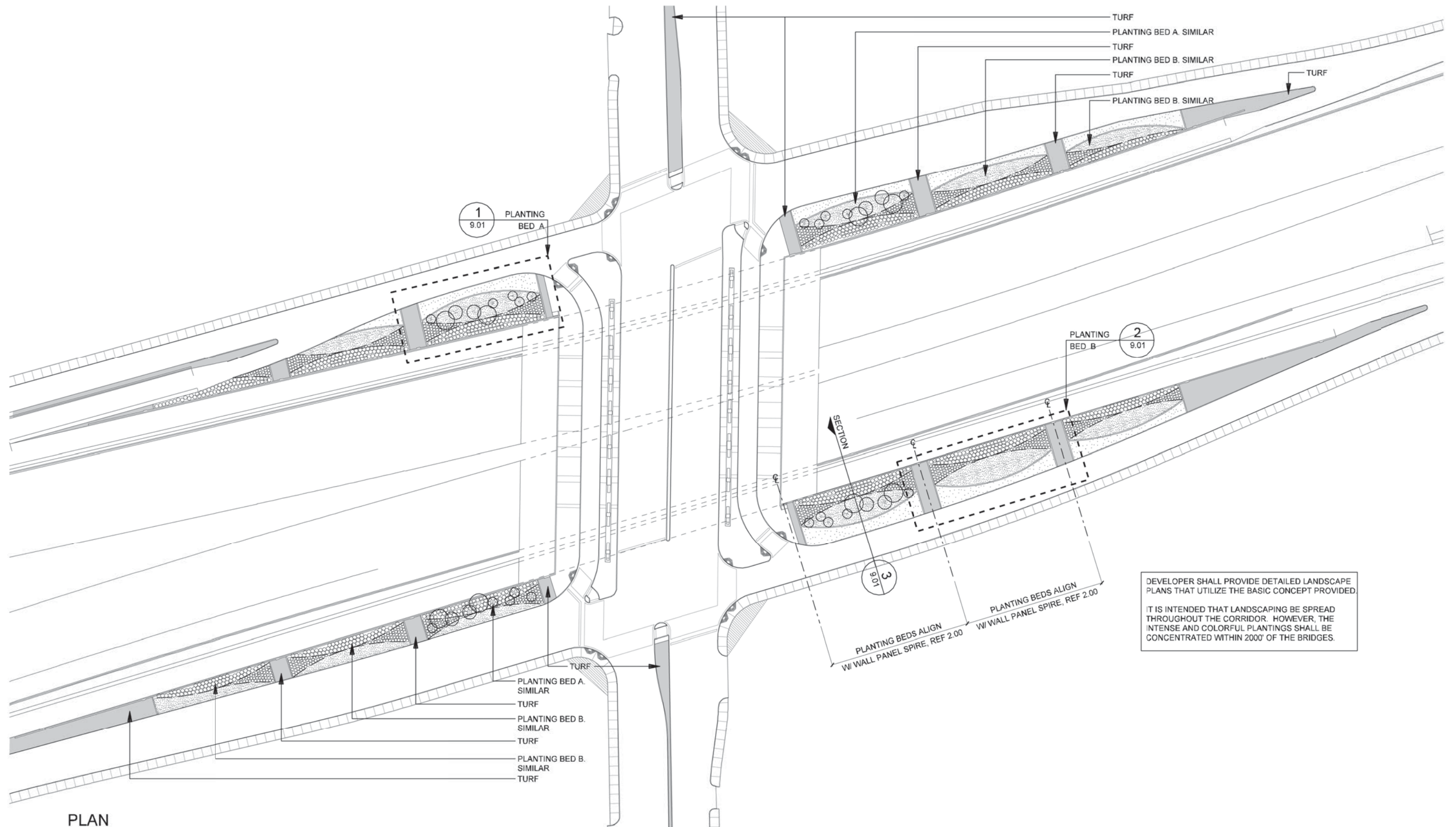


1 ELEVATION RETAINING WALL - COLOR CONCEPT  
SCALE: 1"=20'-0"









1  
PLAN  
LANDSCAPE  
SCALE: 1"=100'-0"

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IH635 MANAGED  
LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

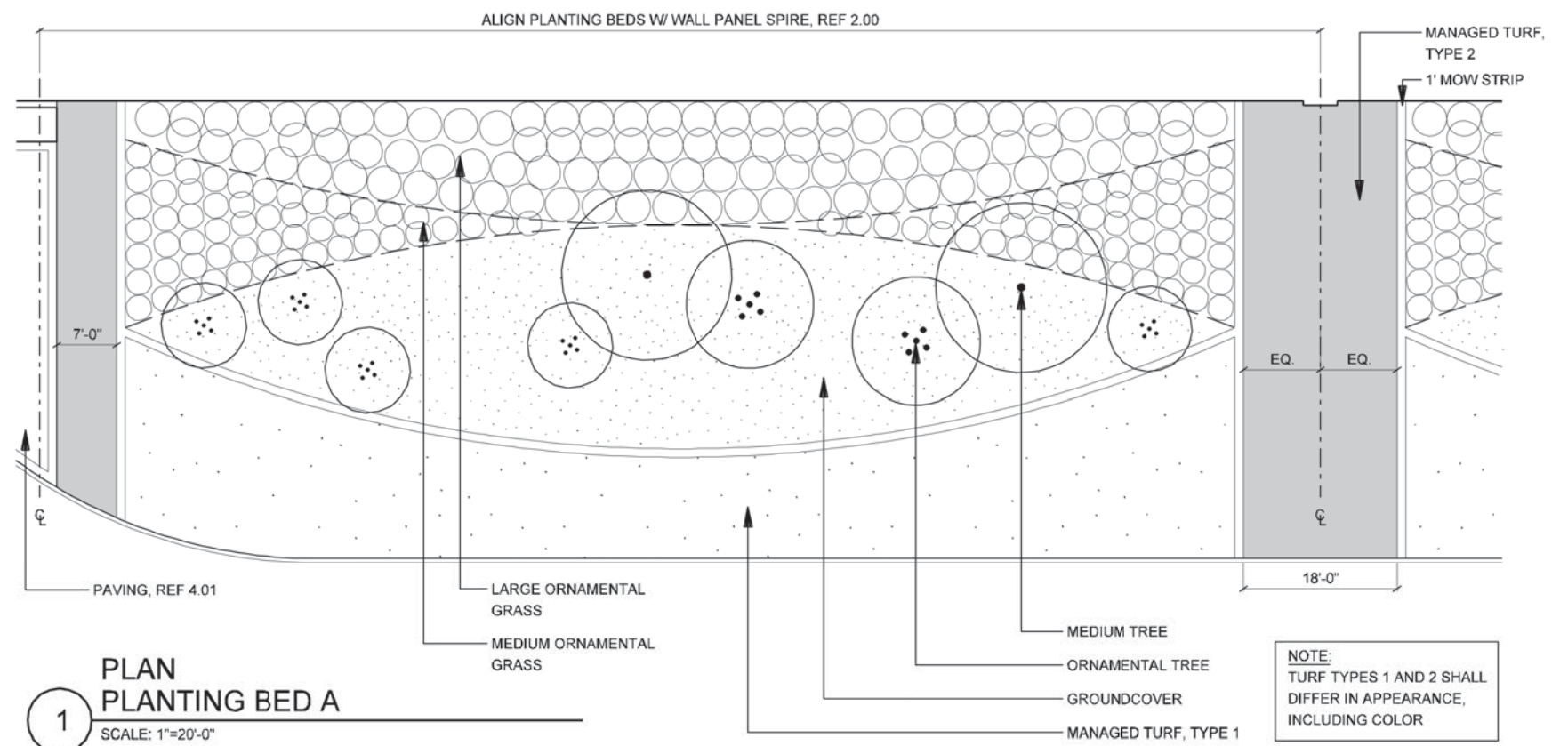
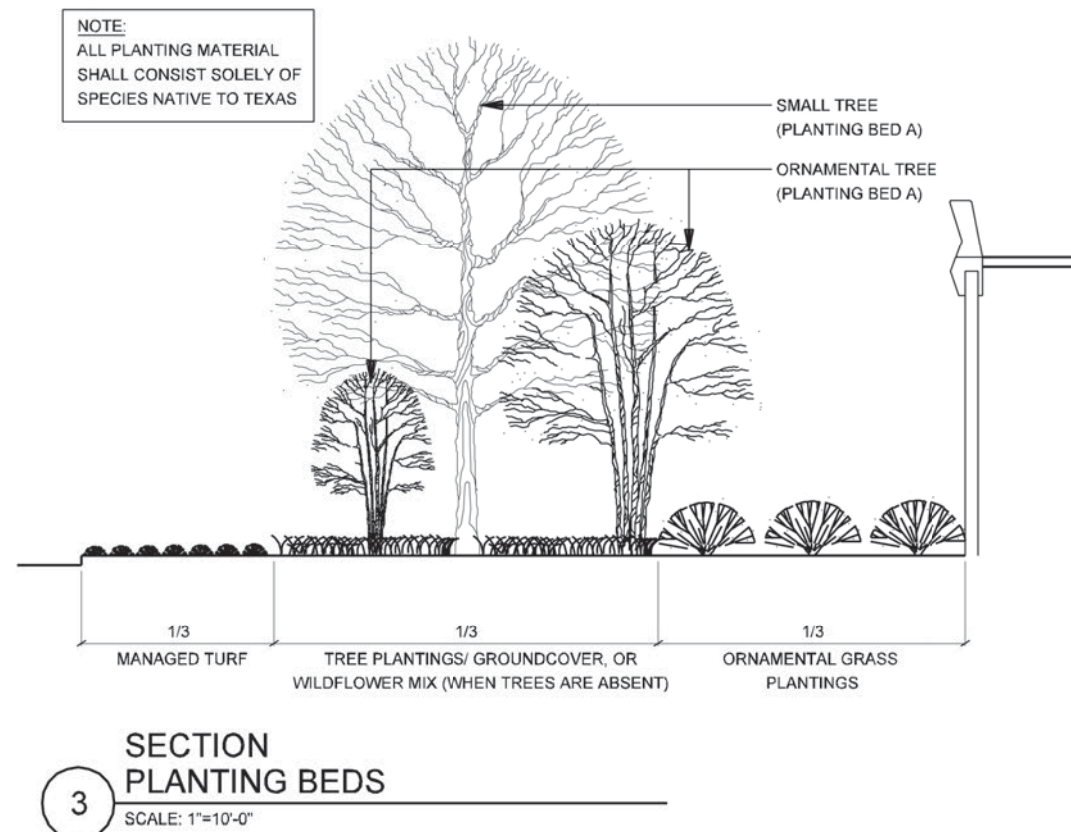
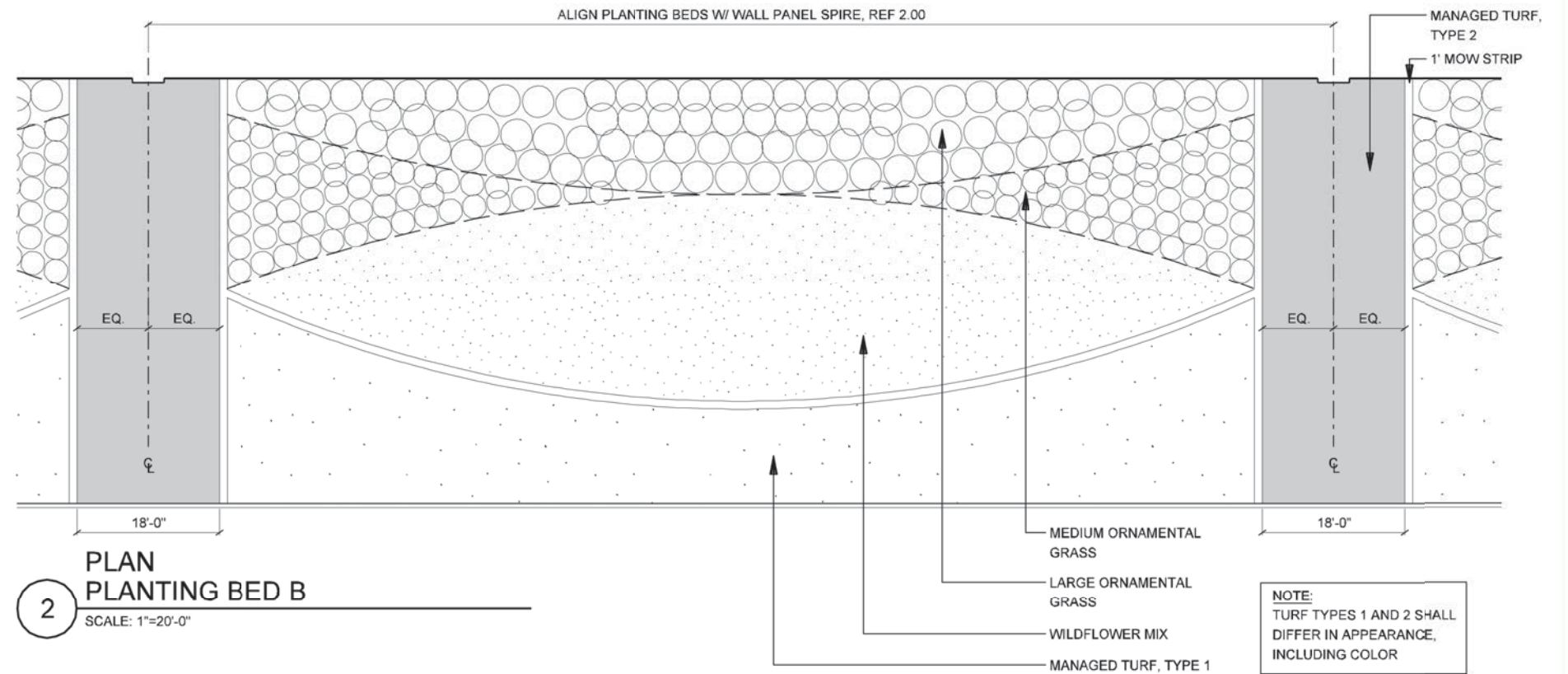
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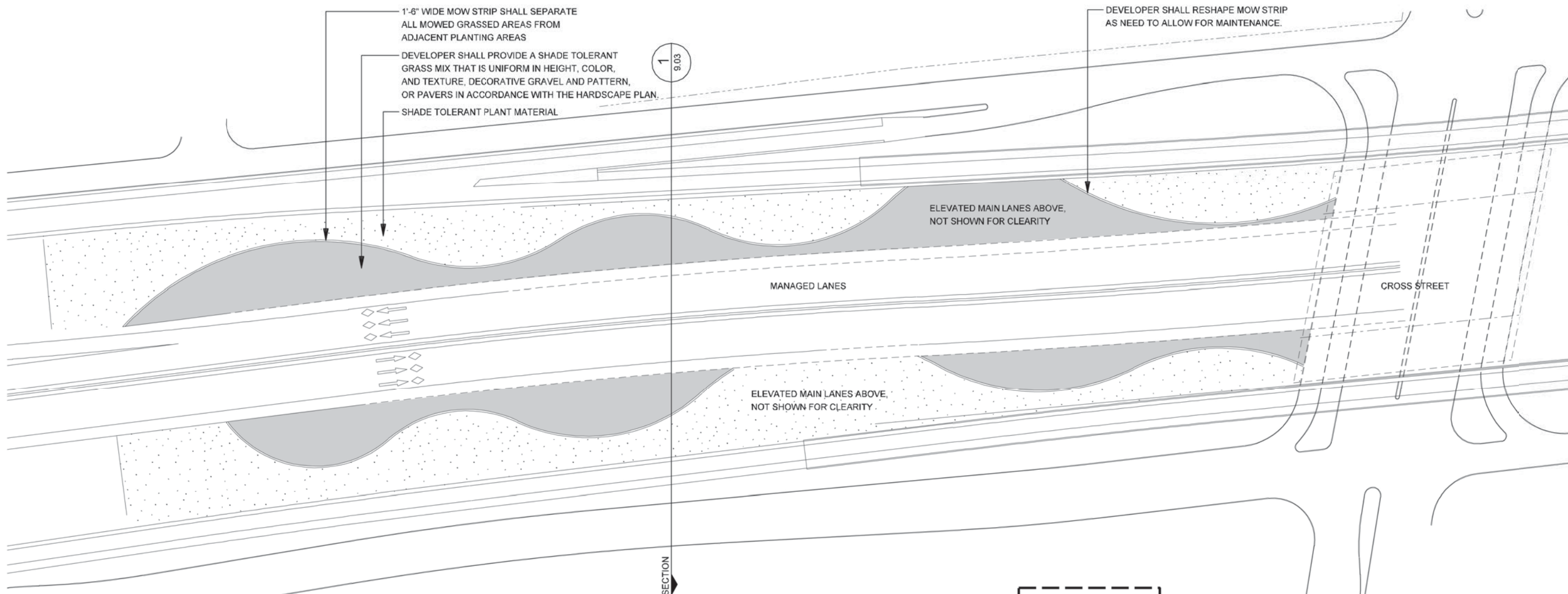
SHEET CONTENTS:  
LANDSCAPE PLAN

ATTACHMENT:  
15-1A

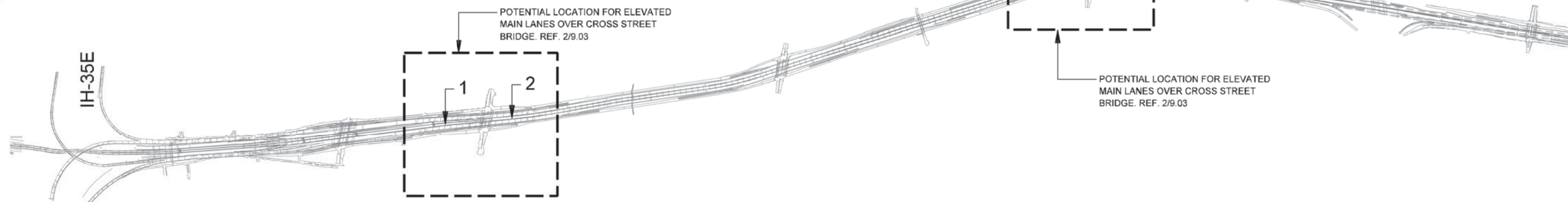
SHEET NUMBER:  
9.00







2  
PLAN  
LANDSCAPE - AT ELEVATED MAIN LANES  
SCALE: 1"=100'-0"



1  
PLAN  
LANDSCAPE AT ELEVATED MAIN LANES - LOCATIONS PER SCHEMATIC  
SCALE: N.T.S.

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

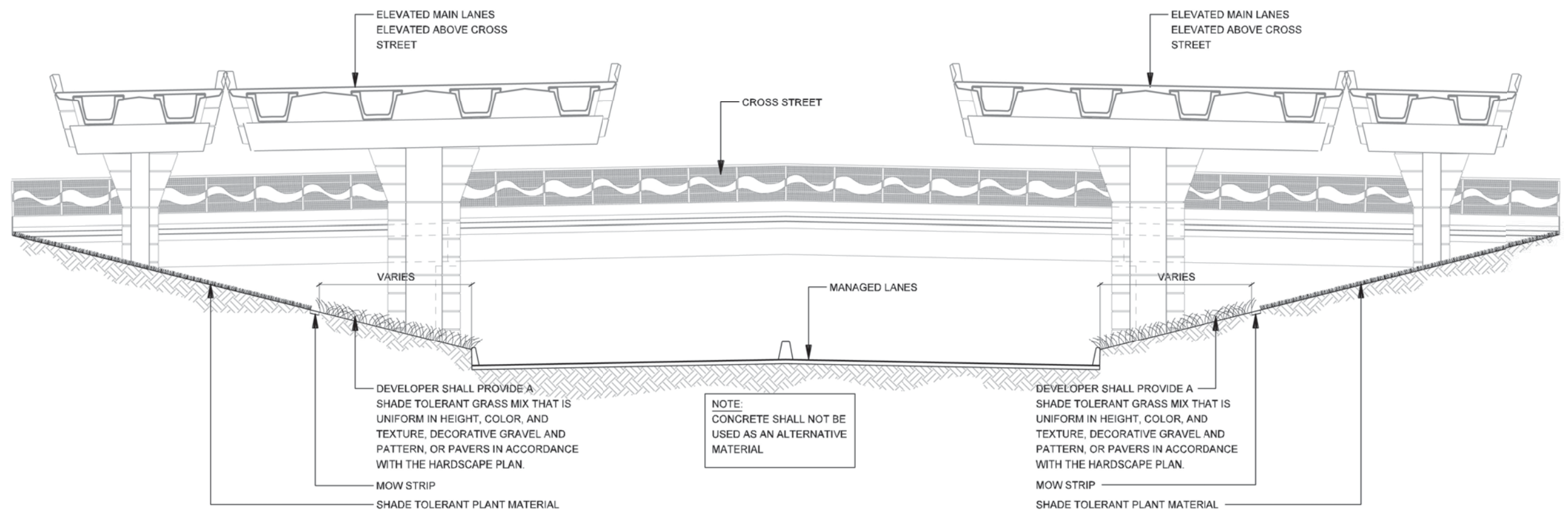
SCALE:  
AS NOTED

SHEET CONTENTS:  
LANDSCAPE PLAN

ATTACHMENT:  
15-1A

SHEET NUMBER:  
9.02





1 SECTION  
LANDSCAPE AT ELEVATED MAIN LANES  
SCALE: 1"=20'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

LANDSCAPE PLAN

ATTACHMENT:

15-1A

SHEET NUMBER:

9.03