1. Provide Plain or Fiber Reinforced Bearing Pads meeting the requirements of Specification Section 932 for Ancillary Structures.
   A. For Collar Bearing Points provide:
      1. 4''x 4''x ½'' Fiber Reinforced Pads;
      2. Plain Pads may be substituted for Fiber Reinforced Pads when sufficient bearing area is available on the concrete collar for the following:
         a. 10' Post Spacing: 4''x 4''x ½''
         b. 20' Post Spacing and Wall Height < 17 feet: 4''x 4''x ½''
         c. 20' Post Spacing and Wall Height ≥ 17 feet: 4''x 5''x ½''
   B. At panel bearing points between stacked panels, use Plain or Fiber Reinforced Bearing Pads.

2. Construct Noise Walls in accordance with the requirements of Specification Section 534, and Augers Cast Piles in accordance with Specification Section 455.
3. Field verify the location of all overhead and underground services shown in the Wall Control Drawings.
4. Wall Height is the nominal height of the walls above finished grade. The Wall Embedment Depth for design is 1'-0". The actual embedment depth may vary plus or minus 6" along the length of the wall.
5. Post Spacing in this Index are nominal, and are measured from centerline to centerline of the auger cast piles. Actual post spacing may vary as shown in the Wall Control Drawings.
6. Panels:
   A. The sum of the individual stacked panel heights is the Wall Height plus 1'-0" (embedment depth).
   B. Where special graphics are required, locate the horizontal panel joints outside of the graphics. Where possible, hold horizontal panel joints at a constant elevation.
   C. Side Installed Panels are only permitted when reduced overhead clearance between posts prohibits installing panels from the top.
   1. For Flush Face panels, install panel into posts from the roadway (front face) of the wall. Recessed panels may be installed from the back face of the wall.
   2. After panels are installed and centered between posts, grout between both panel ends and the adjoining posts (see Sheets 4 and 5 for details).
   D. Individual panel heights should be between 6'-0" and 12'-0" tall. The minimum panel height is 4'-0" and may be used where overhead clearance is limited, or where graphic panels are required on shorter walls.
7. Concrete And Grout:
   A. Concrete Class and Compressive Strength for:
      1. Precast Panels, Posts, and Post Caps: Class IV
      2. Cast-In-Place Collars: Class IV
   B. Minimum Compressive Strength for form removal and handling of posts and panels:
      1. 2,500 psi for horizontally cast post and panels
      2. 2,000 psi for vertically cast panels or when tilt-up tables are used for horizontally cast panel.
   C. Grout for Auger Cast Piles:
      1. Maximum Working Compressive Strength = 2,000 psi
      2. Minimum 28 day strength = 5,000 psi
8. Reinforcing Steel:
   A. In addition to the requirements of Specification Section 415, tie post and pile stirrups at the following locations as a minimum:
      1. Post Stirrups Tie at all four corner bars and at every third interior bar intersection.
      2. Pile Stirrups Tie to the main vertical reinforcing at alternate intersections for circular configurations and at the four corners and at every third interior bar intersection for rectangular configurations.
   B. Provide 2" concrete cover unless noted otherwise.
9. Casting Tolerances for precast panels and posts:
   A. Overall Height and Width: +/- ⅛"
   B. Thickness: +/- ⅛"
   C. Plane of side mold: +/- 1/16"
   D. Openings: +/- ⅛"
   E. Out of Square: 1/8" per 6 ft., but not more than 3/8" total along any side
   F. Warping: 1/16" per foot distance to nearest corner
   G. Bowing: 1:240 panel dimension
   H. Surface Smoothness for Type "A" Smooth Surface Texture Option: +/- 1/16"
Type "A"  SMOOTH

Type "B"  ASHLAR STONE

Type "C"  RUNNING BOND BLOCK

Type "D"  FRACUTED GRANITE

Type "E"  WIRE-CUT BRICK

Type "F"  PEA GRAVEL

Type "G"  VERTICAL FRACTURED FIN

Type "H"  TRAPEZOID VERTICAL FINS W/ FRACTURED FACE (COLORADO DRAG AGGREGATE)

Type "I"  CUT CORAL BLOCK (RUNNING BOND)

NOTES:
1. Surfaces shall be formed, rolled, or pressed using form liners in accordance with the Plans and Specifications for Class 2 Surface Finish.
2. See Noise Wall Data Tables for project aesthetic requirements.
**Half Elevation**

(Front Face Post and Panel Texture Type "H" shown)  
(Graphic Type SE-2 shown)  
(Two stacked panels shown, three stacked panels similar)

**Typical Forming Detail**

(Front Face Panel Texture Type "H" shown)  
(Back Face Panel Texture Type "D" shown)  
(Post Forming Details Similar)

**Notes:**

1. Submit specific form liner samples for approval by the Engineer.
2. Textures and graphics shown are for demonstration purposes only. See Noise Wall Data Tables in the plans for project specific texture and graphic requirements.

**Graphics & Texture Details**

- Bottom Panel: Varies (12'-0" Max., 4'-0" Min.)
- Top Panel: Varies (12'-0" Max., 4'-0" Min.)
- Top of Wall: Example Graphic Type SE-2

---

Form Roller
Back Face Panel Texture (Formed, Rolled or Pressed into Plastic Concrete)
Precast Wall Panel
Front Face Panel Texture (Formed)

Form Liner
Single layer flat surface attached to form liner for casting smooth areas of wall design. See plans for project specific graphic drawings. Joints between flat surface and form liner to be sealed watertight.

Sealed cavity
Second layer surface for recessed graphic design (optional)

Halves Max.
Horizontal joint between stacked panels

Symmetric about & Panel
Top of Wall

Example Graphic Type SE-2

Half Elevation

10'-0" Max.
TYPICAL ELEVATION

SECTION A-A

WITH POST CAP

1" Ø Polyethylene Rod (continuous)

2 - 1 ½" x 6" x ½" Bearing Pads (shown) or 1 - 4" x 6" x ½" Bearing Pad

SECTION B-B

WITHOUT POST CAP

ELEVATION STEP AT TOP OF WALL

ELEVATION STEP AT BOTTOM OF WALL

Note:
See the plans for required post spacings (S).

PLAN

(Showing Flush Panel)

PLAN

(Showing Recessed Panel)

Typical Details

Precast Cap (Type "B" shown)

Step Varies
(10 Min. 1'-6" Max.)

Top Panel

WITH POST CAP

1" Ø Polyethylene Rod (continuous)

2 - 1 ½" x 6" x ½" Bearing Pads (shown) or 1 - 4" x 6" x ½" Bearing Pad

Bearing Pads (Typ.)

(See Sheet 1, Note 10)

Auger Cast Pile

Top Panel

NOTES:

1. Bearing Pads (Typ.)
   or 1 ~ 4" x 6" x ½" Bearing Pad
   or 2 ~ 1 ½" x 6" x ½" Bearing Pads (shown)

2. Non-roadway face of wall, Back Face of Panel

3. Roadway face of wall, Front Face of Post

4. L (Top-Installed)

5. L (Side-Installed)

6. Post Spacing (S)

7. Neoprene Pad

8. V-Groove & 1" Ø Polyethylene Rod

9. Precoat Post Cap when required

10. Top of post elevation

11. Top of Wall Elevation

12. Top Panel

13. Bottom Panel

14. Post & Pile

15. Top of Wall Elevation

16. Non-Shrink Grout

17. Rod (continuous)

18. Grout

19. Non-roadway face of wall, Back Face of Panel

20. Roadway face of wall, Front Face of Post

21. L (Top-Installed)

22. L (Side-Installed)

23. Post Spacing (S)

24. Neoprene Pads

25. Post & Pile

26. Top Panel

27. Bottom Panel

28. 4'-0" Min. ~ 4" Max.

29. 1'-6" Max.)

30. * Nominal embedment (not including tolerances)

31. * 4"

32. * 1 ½"

33. * 2"

34. * Step Varies
   (10 Min. 1'-6" Max.)

35. Step

36. ½" Min. ~ 4" Max.

37. Bearing Pads (Typ.)

38. (See Sheet 1, Note 10)

39. Auger Cast Pile

40. Top Panel

41. Bottom Panel

42. 6" Min. (Wall Embedment Depth)

43. 1'-6" Max.

44. ½"

45. ½"

46. 6" Min.

47. 1 ½"

48. 1 ½"

49. 2"

50. 2"

51. 2"

52. 2"

53. 2"

54. 6" Min.

55. Showing Post without Post Cap

56. Showing Post with Post Cap

57. R/W Line

58. Plan

59. (Showing Flush Panel)

60. (Showing Recessed Panel)

61. TYPICAL DETAILS

62. FY 2018-19

63. STANDARD PLANS

64. NOISE WALLS - (PRECAST)

65. INDEX

66. SHEET

67. 11/01/16

68. REV IS IO N

69. DESCRIPTION:

70. LAST

71. REVISION

72. 01/01/16

73. REV IS IO N

74. DESCRIPTION:
**TYPICAL PANEL ELEVATION**

* In lieu of utilizing the standard pick up points below, panels may be cast vertically or cast horizontally then tilted upright using tilt-tables prior to lifting from form. In this case, pick points must be placed in the top of panels only and transported maintaining the vertical orientation. If these criteria are met, the vertical steel may be reduced to #4 Bars @ 1'-3" (As=0.16 in.²/ft.).

**STANDARD PICK UP POINTS FOR PANELS**

(Panel shall be rotated about long axis only)

- **Panel length (L):** 19'-2" Max.
- **Panel height (H):** 586 L
- **Panel weight (W):** 207 L

* Vertical Steel ~ #4 Bars @ 10" (As=0.24 in.²/ft.) (Typ.)

**NOTES:**
- At the Contractors Option, Smooth or Deformed Welded Wire Reinforcement may be used (equal area).

**Horizontal Steel ~ #4 Bars @ 8" (As=0.30 in.²/ft.) (Typ.)**

**SECTION D-D**

(Showing Flush Type Panel)

**SECTION D-D**

(Showing Recessed Type Panel)

**SECTION C-C**

**Notes:**
1. See Sheet 3 for allowable methods of applying textures.
2. See plans for panel type and aesthetic requirements.
3. For equal post spacing, side-installed panel length will be shorter than top-installed Panel length.

**为准须于求证的等面**

(为准须于求证的等面)

**为准须于求证的等面**

(为准须于求证的等面)
NOTE:
The shop drawings shall include specific pivoting details of panel ends at locations where the deflection angle ($2\Delta^\circ$) between panels exceeds $7^\circ$.

PIVOTING DETAILS (Flush Type Panel)

See Detail "C" for panel dimensions

NOTE:
The shop drawings shall include specific pivoting details of panel ends at locations where the deflection angle ($2\Delta^\circ$) between panels exceeds $20^\circ$.

PIVOTING DETAILS (Recessed Type Panel)

See Detail "E"
DRAINAGE HOLES TYPES A, B, C & D
(Front Face of Wall Shown)
(Two Holes Shown, One Hole Similar)

9'-2" ≤ L ≤ 15'-2"
(Two Grates)

15'-2" < L ≤ 19'-2"
(Two Grates)

9'-2" ≤ L ≤ 15'-2"
(One Grate)

L/2
L/3
L/2
L/3

* Hole Types A, B, C and D refer to distance from bottom of panel to center of opening. See Wall Control Drawings in the plans.

GRATING NOTES:
1. Grating shall be ASTM A36 steel welded in accordance with the current edition of ANSI/AWS D1.1 Steel Welding Code. Hot-dip galvanize grate after fabrication in accordance with Specification Section 962.
2. Expansion Anchors: Use 1/2" Ø x 2" min. corrosion resistant (zinc/aluminum alloy or stainless steel) expansion anchors to connect grates to panels.
3. Blockout textured concrete surface for a strip 2" wide around drainage hole to enable secure attachment of the drainage grate.

DRAINAGE HOLES DETAILS

BAR BENDING DETAILS (#3 Bars)
REVISION DESCRIPTION:

LAST REVIEWED: 11/01/16

STANDARD POST REINFORCEMENT

(Typical Post Shown, 45° Corner Posts Similar)

LOW CLEARANCE OPTION

* Extend Post 1'-6" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

NOTES:
1. For Post Reinforcing see Sheets 15 and 16.
2. For Pile Lengths Tables see Sheets 15 and 16.
STANDARD POST PLACEMENT IN AUGER CAST PILE
(H-Post Shown, 45° Corner Posts Similar)

TYPICAL POST
LOW CLEARANCE OPTION

STANDARD PLANS
FY 2018-19
NOISE WALLS - (PRECAST)

INDEX
534-200

DESCRIPTION:
REV IS IO N 
0 /2 5 /2 0 1 7 
 3 :4 9 :4 5  P M

NOTE:
1. For Pile Length Tables, see Sheets 15 and 16.

POST PLACEMENT & PILE REINFORCING STEEL DETAILS

NOW WALLS - (PRECAST)
45° POST NOTES:
1. Reference Sheets 8 & 9 for location of Sections. Space Bars P7 as shown for Bars P1.

2. Match texture thickness with appropriate Panel face.

3. For Post Reinforcing, see sheets 15 & 16.

4. For Pile Length Tables, see sheets 15 & 16.

10 - #9 Bars spaced equally around Bar P3 (Typ.)
LOW CLEARANCE OPTION

* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

90° CORNER POST REINFORCEMENT

(Post Surface Features Not Shown For Clarity)

90° CORNER POST NOTES:
1. For Post Reinforcing, see Sheets 15 and 16.
2. For Pile Length Tables, see Sheets 15 and 16.
3. Reduce typical panel length or adjust pile spacing at each 90° Corner Post.
4. Match texture thickness with appropriate Panel Face.
NOTES:
1. For Pile Length Tables, see Sheets 15 and 16.
2. Trowel finish top of Collar to allow placement of Bearing Pads.

* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".
NOTES:
1. For Pile Length Tables, see Sheets 15 and 16.
2. Trowel Finish top of auger cast pile to allow placement of Bearing Pads.
* Extend Post 2' above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

* Top of Wall
90° Corner Low Clearance Post

Finished Grade
Exposed Precast Post Reinforcement (Typ.)
36" Ø Auger Cast Pile

10 - #9 Bars (Typ.), See Section W-W

Bottom of Auger Hole per Plan

Top of Auger Cast Pile, Elev. A (See Note 2)

ELEVATION

SECTION W-W

SECTION V-V

11½'
36" Ø Auger Cast Pile

Projected Location of Bearing Pad (Typ.)

10 - #9 Bars spaced equally around Bar P3 (Typ.)

Bars P3

NOTES:
1. For Pile Length Tables, see Sheets 15 and 16.
2. Trowel Finish top of auger cast pile to allow placement of Bearing Pads.
* Extend Post 2' above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

* Top of Wall
90° Corner Low Clearance Post

Finished Grade
Exposed Precast Post Reinforcement (Typ.)
36" Ø Auger Cast Pile

10 - #9 Bars (Typ.), See Section W-W

Bottom of Auger Hole per Plan

Top of Auger Cast Pile, Elev. A (See Note 2)

ELEVATION

SECTION W-W

SECTION V-V

11½'
36" Ø Auger Cast Pile

Projected Location of Bearing Pad (Typ.)

10 - #9 Bars spaced equally around Bar P3 (Typ.)

Bars P3

NOTES:
1. For Pile Length Tables, see Sheets 15 and 16.
2. Trowel Finish top of auger cast pile to allow placement of Bearing Pads.
* Extend Post 2' above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".
PRECAST POST CAPITAL

PLAN VIEW
(Type "A" Cap Shown, Type "B" & "C" Caps Similar)

VIEW A-A SHOWN, VIEW B-B SIMILAR
(Type "A" Cap Shown, Type "B" & "C" Caps Similar)

CAP PLACEMENT DETAIL
(Type "B" Cap Shown, Type "A" & "C" Caps Similar)

SECTIONS C-C
TYPE "A" CAP DETAILS
PICTORIAL VIEW

TYPE "B" CAP DETAILS
PICTORIAL VIEW

TYPE "C" CAP DETAILS
PICTORIAL VIEW

PRECAST POST CAPITAL

FY 2018-19
STANDARD PLANS
NOISE WALLS - ( Precast)
**TABLE 1A - TABLE OF POST REINFORCING STEEL**

<table>
<thead>
<tr>
<th>NOMINAL WALL HEIGHT (Feet)</th>
<th>POST LENGTHS</th>
<th>WIND SPEED = 130 MPH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10'-0&quot; POST SPACING</td>
<td>20'-0&quot; POST SPACING</td>
</tr>
<tr>
<td></td>
<td>BARS A</td>
<td>BARS B</td>
</tr>
<tr>
<td></td>
<td>SIZE</td>
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<tr>
<td>12</td>
<td>13'-0&quot;</td>
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<td>22'-2&quot;</td>
</tr>
<tr>
<td>22</td>
<td>23'-0&quot;</td>
<td>23'-2&quot;</td>
</tr>
</tbody>
</table>

**TABLE 1B - PILE LENGTHS (Feet) - WIND SPEED = 130 MPH**

<table>
<thead>
<tr>
<th>NOMINAL WALL HEIGHT (Feet)</th>
<th>10'-0&quot; POST SPACING</th>
<th>20'-0&quot; POST SPACING</th>
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<tbody>
<tr>
<td></td>
<td>H-POSTS</td>
<td>CORNER POSTS</td>
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<tr>
<td></td>
<td>SOIL 1</td>
<td>SOIL 2</td>
</tr>
<tr>
<td></td>
<td>30'-0&quot;</td>
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<td>30'-9&quot;</td>
<td>30'-9&quot;</td>
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<tr>
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<td>30'-12&quot;</td>
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<tr>
<td></td>
<td>30'-15&quot;</td>
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<td>30'-18&quot;</td>
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<td>30'-21&quot;</td>
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</tr>
<tr>
<td></td>
<td>30'-24&quot;</td>
<td>30'-24&quot;</td>
</tr>
</tbody>
</table>

**TABLE NOTE:**
1. Bars D and Bars E are for 45° Corner Posts only.
2. See Contract Plans for project wind speed.
4. Soil 2 = Medium Dense Granular Soil, N = 10 to 40.

---

**PILE DEPTH & REINFORCING SUMMARY**

- **NOISE WALLS - (PRECAST)**
- **INDEX**: 534-200
- **REVISION**
- **DESCRIPTION**: FY 2018-19 STANDARD PLANS
- **LAST REVISION**: 11/01/16
- **SHEET**: 15 of 16
<table>
<thead>
<tr>
<th>Nominal Wall Height (Feet)</th>
<th>Post Lengths</th>
<th>Wind Speed = 150 MPH</th>
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<th>20'-0&quot; Post Spacing</th>
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<td>BARS C</td>
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<td>12'-9&quot;</td>
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<td>21</td>
<td>22'-0&quot;/2&quot;</td>
<td>22'-0&quot;</td>
<td>20'-9&quot;</td>
<td>22'-0&quot;</td>
</tr>
<tr>
<td>22</td>
<td>23'-0&quot;/2&quot;</td>
<td>23'-0&quot;</td>
<td>21'-9&quot;</td>
<td>23'-0&quot;</td>
</tr>
</tbody>
</table>

**TABLE NOTE:**
1. Bars D and Bars F are for 40" Corner Posts only.
2. See Contract Plans for project wind speed.
   Soil 2 = Medium Dense Granular Soil, N = 10 to 40.