ITEM SPECIAL - NOISE BARRIERS

1. DESCRIPTION
   Noise barriers are construction of preparing any necessary shop drawings, and manufacturing, testing, transporting, storing, installing and testing noise barriers shall meet the following requirements. The noise barriers shall be designed, fabricated, and installed in accordance with the specifications and drawings provided by the City of Everett. The noise barriers shall be fabricated and installed in accordance with the City of Everett’s noise barrier specifications and drawings provided by the City of Everett.

2. DESIGN SPECIFICATIONS

3. DESIGN LOADS
   a. Wind Load
   b. Load on Posts
   c. Load on Panels

4. DESIGN CASES
   a. Maximum Load Case
   b. Extreme Event Load Case
   c. Fire Load Case

5. MATERIALS
   a. Reinforcing Steel
   b. Concrete
   c. Fasteners

6. IMPLEMENTATION
   a. Schedule
   b. Quality Control
   c. Safety

7. ACCEPTANCE CRITERIA
   a. Acceptance Criteria

8. CONTRACTOR RESPONSIBILITY
   a. Pre-Construction Meeting
   b. Construction Meeting
   c. Material Submittals

9. DOCUMENTATION
   a. Drawings
   b. Specifications
   c. Calculations

10. LICENSES AND PERMITS
    a. Permits
    b. Licenses

11. PAYMENT
    a. Payment Schedules
    b. Retentions

12. COMPLIANCE
    a. Compliance with City of Everett Standards
    b. Compliance with State and Federal Regulations

13. COMPLIANCE WITH CODES
    a. Building Code
    b. Electrical Code

14. COMPLIANCE WITH STANDARDS
    a. Noise Barrier Standards
    b. Environmental Standards

15. COMPLIANCE WITH INSPECTIONS
    a. Construction Inspections
    b. Final Inspections

16. COMPLIANCE WITH WARRANTIES
    a. Manufacturer’s Warranties
    b. Contractor’s Warranties

17. COMPLIANCE WITH MAINTENANCE
    a. Maintenance Schedule
    b. Maintenance Procedures
CONSTRUCTION METHODS

1. LAYOUT AND STAKE EACH NOISE BARRIER IN THE FIELD AND VERIFY THE PROPOSED WALL GEOMETRY AND LOCATIONS OF THE POSTS AND THE PANELS PRIOR TO INSTALLATION BY USING A NOISE BARRIER SHAPED AND OR IRONWORK LOCATION ON THE BARRIER COMPONENTS.

2. CLEAR BRUSH AND TREE BRANCHES ON OR AROUND THE PROJECT SITE TO PERFORM THE WORK. OBTAIN APPROVAL FROM THE PROJECT ENGINEER PRIOR TO CLEARING AND TAKING ANY ORNAMENTAL OR IRONWORK LOCATION. PULLING THE IRONWORK LOCATION TO THE PROJECT SITE. PULLING THE IRONWORK LOCATION TO THE PROJECT SITE. PULLING THE IRONWORK LOCATION TO THE PROJECT SITE.

3. DO NOT SHOVE CONCRETE PANELS, POSTS, OR LIPS UNLESS THE CONCRETE IS NOT DAMAGES. USE A CONCRETE PANELING MACHINE TO INSTALL THE PANELS AT LOCATIONS OTHER THAN THOSE SHOWN IN THE STANDARD DRAWINGS. TRANSPORT AND STORE PANELS ON AN UPRIGHT POSITION OR PLACE TO ENSURE THE PANELS ARE NOT DAMAGED OR DISTURBED.

4. INSTALL NOISE BARRIERS IN ACCORDANCE WITH THE PROJECT PLAN AND BORROW OF ROADS AND STREETS IN SUCH A MANNER AS TO BE STRUCTURALLY AND/PREVENT DAMAGE TO THE PANELS, POSTS, AND PANELS. DECLARATION BY THE ENGINEER PRIOR TO INSTALLATION TO PREVENT DAMAGE TO THE BARRIERS BY THE BARRIERS PRIOR TO PERFORMANCE AS DIRECTED BY THE ENGINEER PRIOR TO INSTALLATION TO PERFORM THE WORK. OBTAIN APPROVAL FROM THE PROJECT ENGINEER PRIOR TO INSTALLING THE PANELS. PULLING THE IRONWORK LOCATION TO THE PROJECT SITE. PULLING THE IRONWORK LOCATION TO THE PROJECT SITE.


6. DISPOSE OF ALL EXCESS EXCAVATION IN A MANNER SATISFACTORY TO THE ENGINEER.

7. FOR BARRIERS THAT ARE BUILT ON TOP OF EARTH BANKS, CONSTRUCT THE BANKS AND MOUNT THE PANELS AND POSTS TO THE БАРІЕРЫ PRIOR TO INSTALLATION. BARRIERS PRIOR TO INSTALLATION. BARRIERS PRIOR TO INSTALLATION.

8. INSTALL TEMPORARY-FENCE WHEN THE TIME BETWEEN THE REMOVAL OF THE EXISTING FENCE AND THE INSTALLATION OF THE PROPRIETARY FENCE (NOISE BARRIERS) IS LESS THAN 48 HOURS. INSTALL THE TEMPORARY FENCE PRIOR TO INSTALLATION. INSTALL THE TEMPORARY FENCE PRIOR TO INSTALLATION.

9. RESTORATION OF WORK AREAS: UPON COMPLETION OF NOISE BARRIER INSTALLATION, RESTORE THE DAMAGE DISTURBED BY THE NOISE BARRIERS TO THEIR ORIGINAL CONDITION. RESTORATION SHALL BE COMPLETED AND ACCORDING TO THE UNITS OF THE BARRIERS PRIOR TO INSTALLATION. BARRIERS PRIOR TO INSTALLATION. BARRIERS PRIOR TO INSTALLATION.

10. ACCESS REQUIREMENTS: PROVIDE ACCESS TO THE BARRIERS AT THE PROJECT SITES FOR MAINTENANCE, REPAIR, AND TESTING. PROVIDE ACCESS TO THE BARRIERS AT THE PROJECT SITES FOR MAINTENANCE, REPAIR, AND TESTING. PROVIDE ACCESS TO THE BARRIERS AT THE PROJECT SITES FOR MAINTENANCE, REPAIR, AND TESTING.

METHOD OF MEASUREMENT

The department will measure the noise barrier by the number of square feet. The department will determine the area of individual noise barrier segments from project plans and dimensions using a related point from the project plan, including the bottom of the barrier panel, the top of the barrier panel, and the bottom length measured. The department will adjust the quantity for noise barrier heights or lengths larger than project plan dimensions.

BASIS OF PAYMENT

Payment for noise barriers is full compensation for furnishing and installing foundations, posts, panels, caps, steel base plates and connections, connections (including, but not limited to, brackets, caps, sleeves, panels, sleeves, slee...
MATERIALS APPROVALS: Submit certified test data to the Engineer that shows the sealant meets all the requirements of the specification. The following products and coverage rates are pre-approved:

1. TAMACOMP FINE GROUT
   TRIMCO INDUSTRIES COMPANY
   CHICAGO, ILLINOIS 60642
   APPLICATION: DRY FILM THICKNESS 0.005" OR MORE
   TENAQUIX MORTAR, MAT ZEBRADO, MAT SCHOTT, ZEBRA
   TEXTURED SURFACES (SAND 120 STONE, RAP BOE 40 G/F STONE)

2. BRIDGE BOND 2125/6 1/4"X4" SANDING TEXTURE BY T/C COTTON OR BRIDGE BOND 2125/6 1/4"X4" SANDING TEXTURE COATINGS OF AMERICA
   SUITE 160
   7695 FEDERAL ROAD
   FORT LAUDERDALE, FLORIDA 33351
   APPLICATION: DRY FILM THICKNESS 0.005" OR MORE
   SMOOTH SURFACE RATE OF 50 G/F FT SMOOTH SURFACE (S/FA/3 1L/3 26 55 26 CT)

3. TEXTURED BY CHIMANISANS
   500 EMMERS STREET
   HAZLETON, PENNSYLVANIA 18201
   APPLICATION: DRY FILM THICKNESS 0.005" OR MORE
   SMOOTH SURFACE RATE OF 50 G/F FT SMOOTH SURFACE (S/FA/3 1L/3 26 55 26 CT)

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STEEL BASE PLATE PLAN

NOTES:
1. FOR GENERAL NOTES REFER TO SHEETS 3-5.
2. FOR SECTION C-D SEE SHEET 5.
3. INSTALL ALL THREADED CONNECTIONS ACCORDING TO THE ANCHOR BOLT MOUNT REQUIREMENTS OF CSA G70.0.
4. MODIFIED ANCHOR BOLTS ARE STANDARD 3" ANCHOR BOLTS MODIFIED AND ARE NOT ACCEPTABLE.
5. IN LIEU OF PROVIDING SEPARATE THREADED RODS, THE 8" BOLTS MAY BE FACILITATED WITH THREADED ENDS AND STRETCHED TO CONNECT ALL PLATE TO THE BOTTOM OF THE POST. THE BOLTS WILL BE CALIBRATED FULL LENGTH. FABRICATOR TO DETAIL HOLE LOCATIONS AND SIZES ON SHOP DRAWINGS.
6. THREADED PLATE CONNECTIONS.
   IN LIEU OF HØLDT PLATE CONNECTION, THE BASE PLATE HOLES MAY BE TAPPED TO ACCOMMODATE THE THREADED BOLT. UTILIZE "B" OR "C" THREADED HOLES, THREADED "B" REBARS OR "C" THREADED HOLES SHALL BE THREADED INTO THE BASEPLATE "B" IN "\(\frac{3}{4}\)" MIN AND TACK WELDED IN PLACE. THE ASSEMBLY SHALL BE CAST INTO THE POST.
7. FABRICATOR TO DETAIL ANCHOR BOLT PROJECTION ON SHOP DRAWINGS, WHEN INSTALLED, THE END OF THE BOLT SHALL PROJECT AT LEAST TWO THREAD LENGTHS OUTSIDE THE FACE OF THE POST.

ELEVATION
PRECAST CONCRETE POST WITH BASE PLATE CONNECTION TO DRILLED SHAFT

BASE PLATE DATA FOR 18" PRECAST CONCRETE POSTS

BASE PLATE DATA FOR 20" PRECAST CONCRETE POSTS
Section 1-1: Typical Drilled Shaft

Legend:
+ Center of Drilled Shaft

Notes:
1. For general notes refer to sheets 1-3-13.
2. Refer to the reinforcing steel list in the project plans for the reinforcing steel details for each drilled shaft design.
TYPICAL ELEVATION OF SLOPED SECTION - DRAINAGE

SLOPED SECTION DRAINAGE NOTES:
1. CONSTRUCT A TRENCH WITH A MINIMUM LONGITUDINAL SLOPE OF 1.0% UNDER THE NOISE BARRIER PANELS AS SHOWN IN THE TYPICAL ELEVATION.
2. PROVIDE UNDERGROUND SLOPE OF 1% MINIMUM OR AS SPECIFIED IN PROJECT PLANS, INSTALL IN ACCORDANCE WITH ITEM 605.
3. OUTLET CONDUIT TO BE SPACED AT 500' MAX.; INSTALL IN ACCORDANCE WITH ITEM 605.