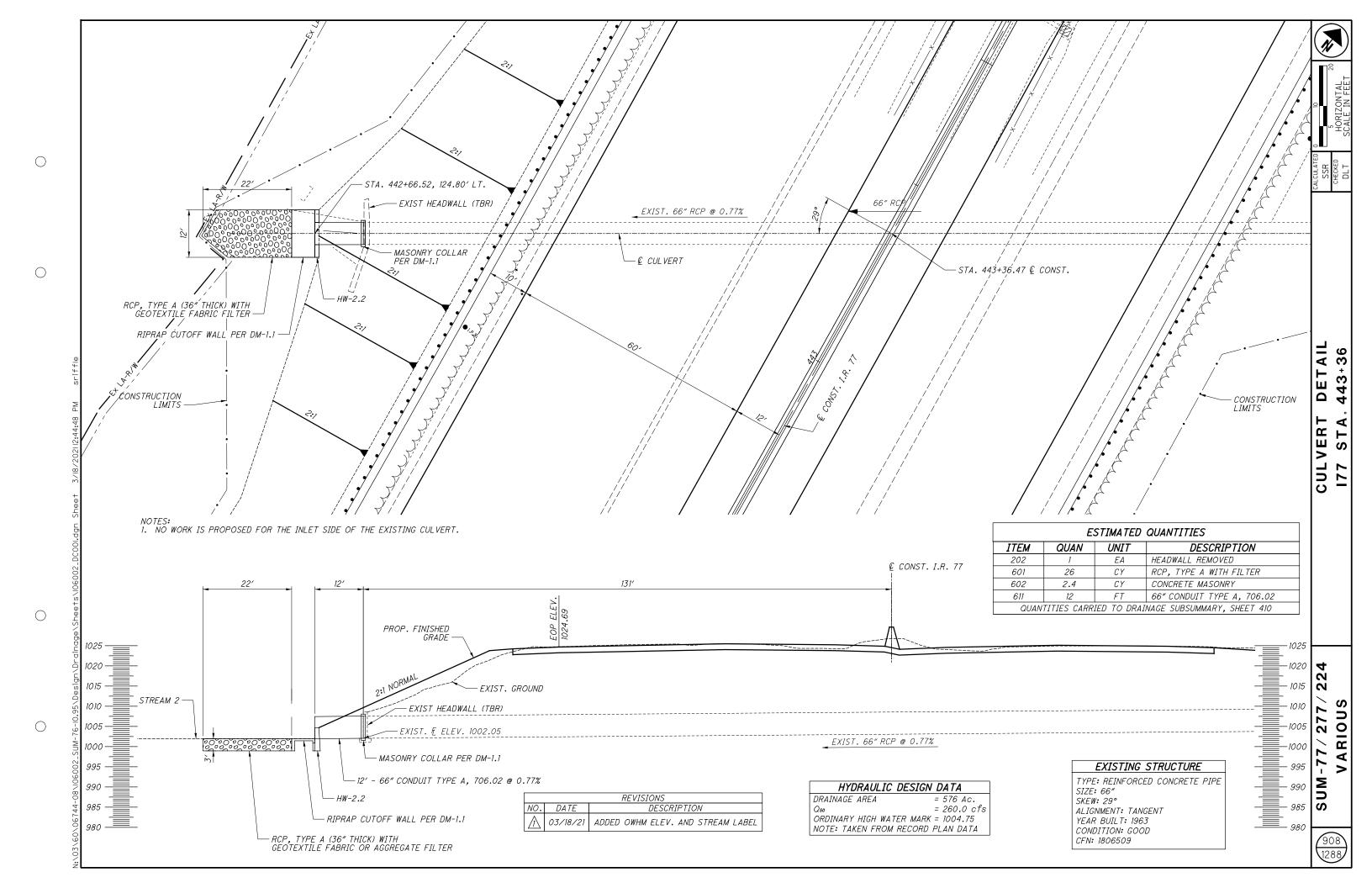
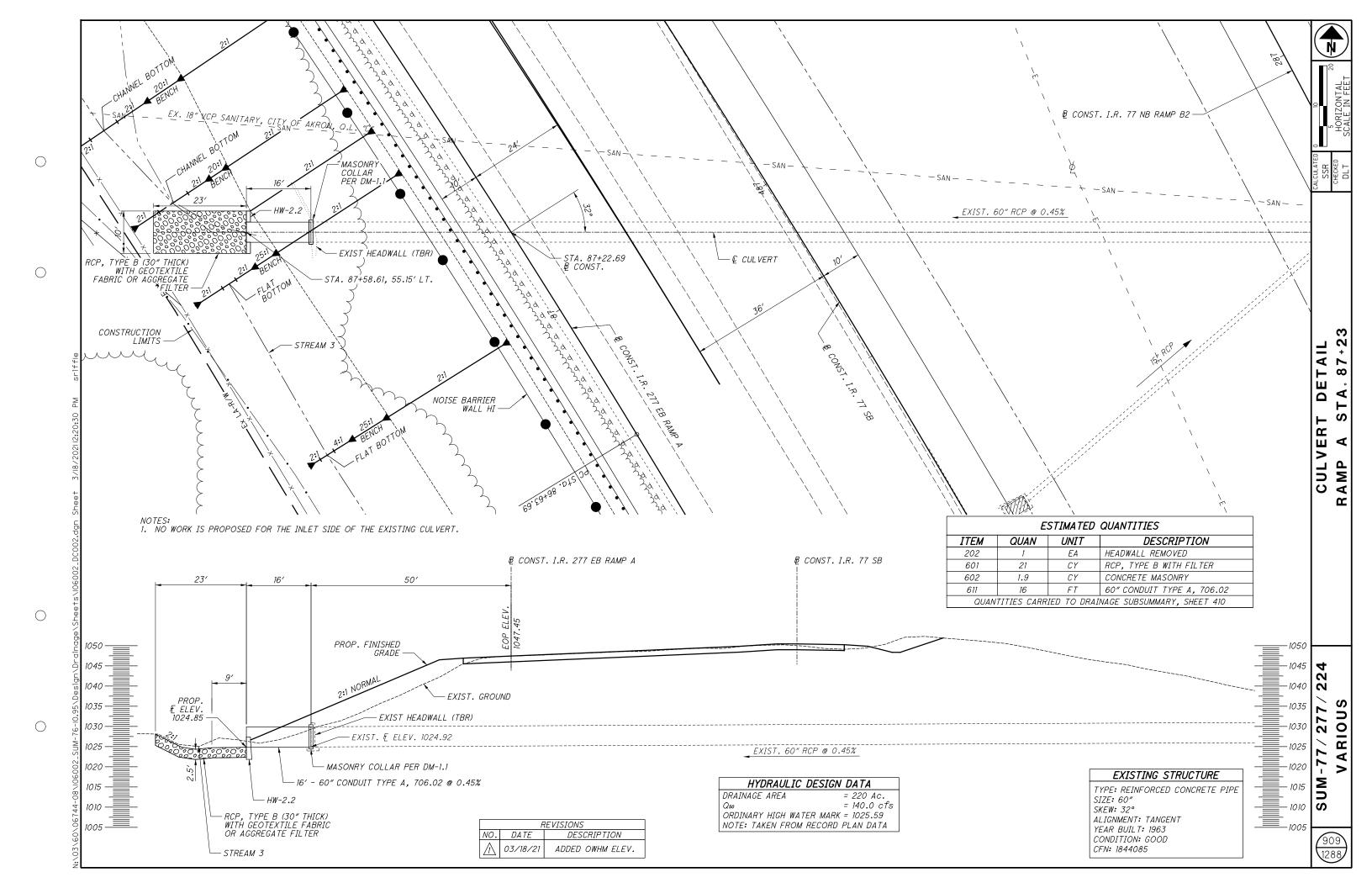
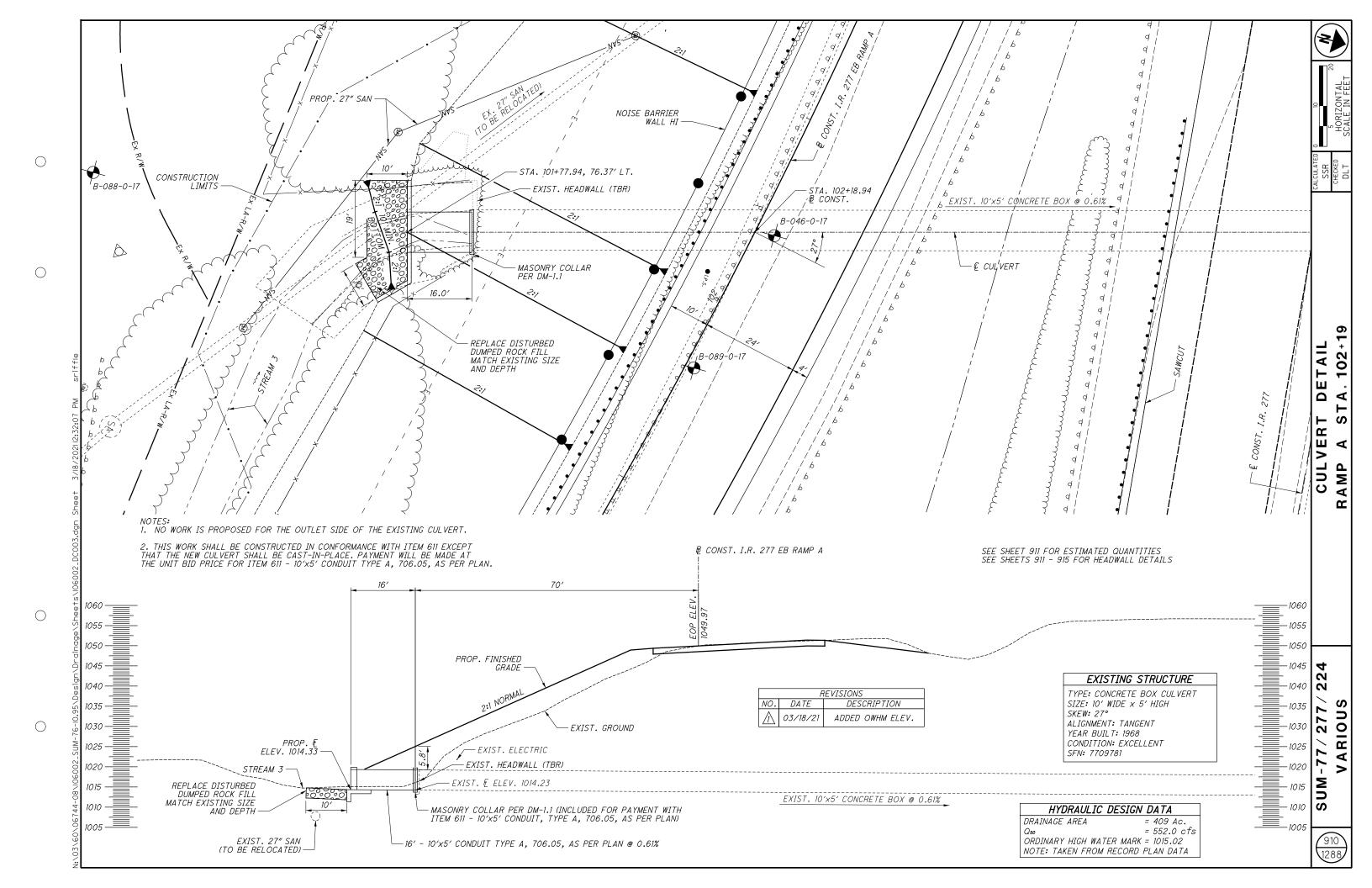
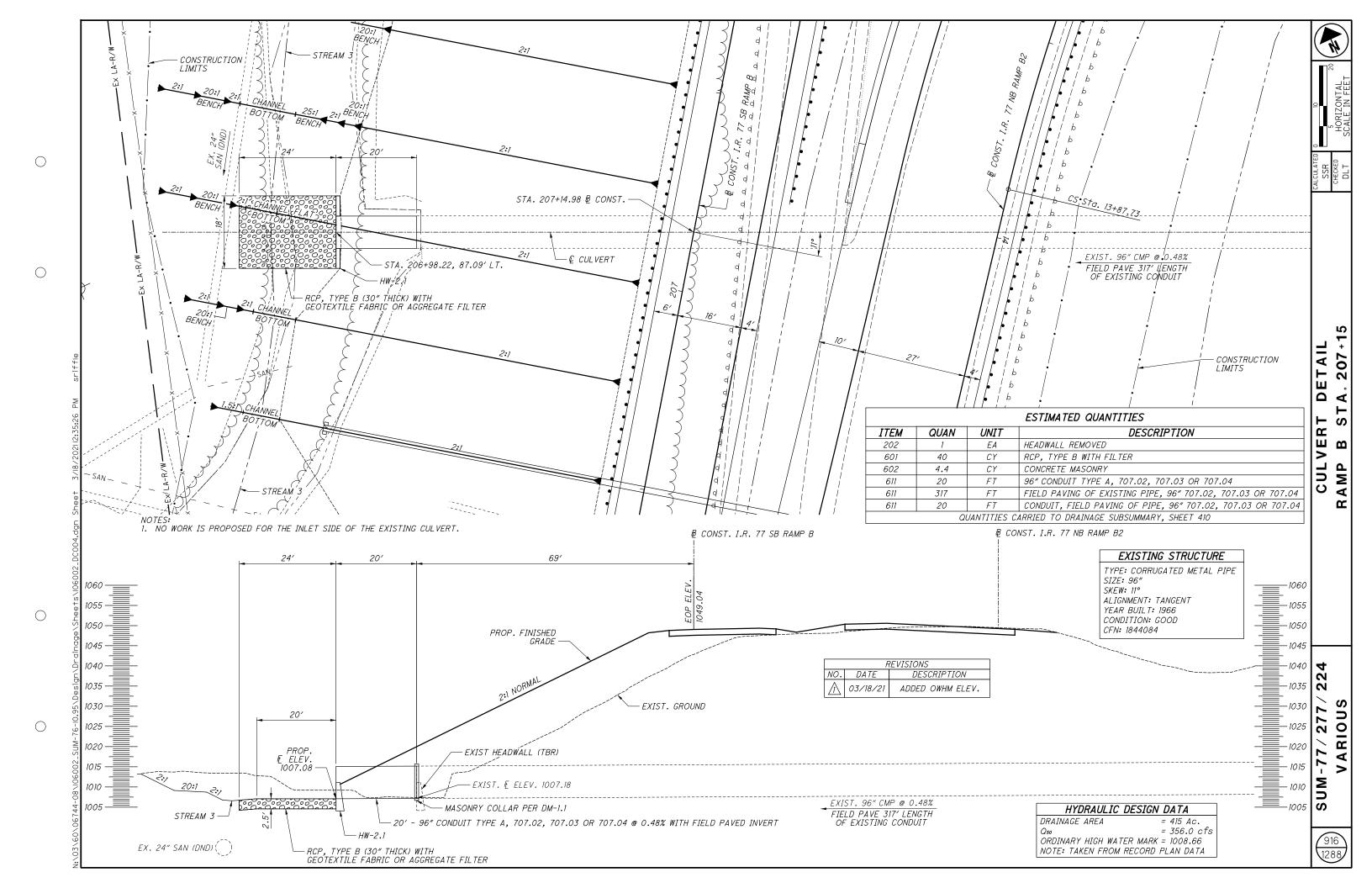
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<u> ITEM 606 - SPECIAL - NOISE WALL BARRIER (REFLECTIVE)</u>

NOISE WALL CONSTRUCTION SHALL ADHERE TO ODOT STANDARD DRAWING NBS-1-09. UNLESS OTHERWISE NOTED HEREIN, ALL GENERAL NOTES LISTED IN THE STANDARD SHALL APPLY FOR THE DESIGN SPECIFICATIONS, DESIGN LOADS, MATERIALS, ETC. FOR THESE WALLS. THOSE ITEMS THAT DEVIATE FROM THE NOTES LISTED IN THE STANDARD ARE DESCRIBED BELOW.

MATERIAL SPECIFICATIONS:

FOAM BACKER ROD:

THE BACKER ROD SHALL BE AN EXPANDED, CLOSED CELL POLYETHYLENE FOAM. THE BACKER ROD DIAMETER SHALL BE 1-1/4" \$. OTHER BACKUP MATERIALS (PAPER, ROPE AND OPEN CELL FOAM) ARE NOT ACCEPTABLE. FURNISH FOAM BACKER ROD MEETING ASTM D5249 TYPE 1 OR TYPE 3.

SHOP DRAWINGS:

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PROVIDE SHOP DRAWINGS FOR ALL NOISE WALL COMPONENTS THAT REQUIRE SHOP FABRICATION. INCLUDE THE FABRICATION SCHEDULE FOR ALL NOISE BARRIER WALL COMPONENTS IN THE PROJECT PROGRESS SCHEDULE AS REQUIRED BY C&MS 108.02.

THE SHOP DRAWINGS SHALL BE SIGNED, SEALED AND DATED BY AN OHIO REGISTERED ENGINEER. ALL MODIFICATIONS TO THE STRUCTURAL DESIGN OF THE PANELS, POSTS, BASE PLATES OR ANCHORAGES PROVIDED BY THIS STANDARD DRAWING SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS AND BE ACCOMPANIED WITH SUPPORTING CALCULATIONS STAMPED BY TWO OHIO REGISTERED ENGINEERS. DEPARTMENT ACCEPTANCE OF THE SHOP DRAWINGS AND SUPPORTING CALCULATIONS DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS AND OMISSIONS FOUND AFTER ACCEPTANCE OF THE

THE CONTRACTOR SHALL PROVIDE AN ELECTRONING COPY OF A WRITTEN ACCEPTANCE LETTER THAT DOCUMENTS ACCEPTANCE OF THE SHOP DRAWINGS INCLUDING CONFIRMATION OF FIELD VERIFICATION, AS REQUIRED, AND DESCRIPTIONS OF ISSUES RESOLVED BETWEEN THE CONTRACTOR, THE FABRICATOR AND THE DEPARTMENT. BY ACCEPTING THESE DRAWINGS, THE CONTRACTOR REPRESENTS TO THE DEPARTMENT THAT ALL DIMENSIONS AND ELEVATIONS OF CONDITIONS SHOWN ON THE PLANS HAVE BEEN FIELD MEASURED AND VERIFIED, AND THAT THESE SHOP DRAWINGS COMPLY WITH ALL THE MATERIALS REQUIREMENTS, CONSTRUCTION REQUIREMENTS AND CONTRACT REQUIREMENTS. THE CONTRACTOR FURTHER REPRESENTS THAT THESE DRAWINGS HAVE BEEN COORDINATED AND VERIFIED WITH THE DETAILS OF THE WORK TO BE PERFORMED BY OTHER FABRICATORS AND ENTITIES ON THE PROJECT. DELAYS TO THE CONTRACTOR FOR INCORRECT FABRICATION AS A RESULT OF FAILURE TO COORDINATE OR PERFORM THIS ACCEPTANCE ARE NON-EXCUSABLE ACCORDING TO C&MS 108.06.E.

ALL ELECTRONIC DOCUMENTS SHALL BE IN PORTABLE DOCUMENT FORMAT (PDF). SHOP DRAWINGS SHALL BE SUBMITTED IN 11' X 17" SHEET SIZE AND ACCEPTANCE LETTERS SHALL BE SUBMITTED IN 8 1/2" X 11" SHEET SIZE.

CONCRETE NOISE BARRIER PANELS AND POSTS:

EVERY PRODUCER OF PRECAST CONCRETE NOISE BARRIER COMPONENTS SUPPLIED TO THE PROJECT SHALL BE CERTIFIED IN ACCORDANCE WITH SUPPLEMENT 1073. THE DEPARTMENT WILL NOT ACCEPT PRECAST COMPONENTS FROM NON-CERTIFIED PLANTS. THE CONCRETE SUPPLIED FOR CONCRETE POSTS AND PANELS SHALL MEET THE REQUIREMENTS SPECIFIED ABOVE UNDER SECTION 6. MATERIAL SPECIFICATIONS.

NOISE BARRIERS REQUIRE A REINFORCED INTEGRAL CAP (COPING) ON THE TOP OF THE TOP PANELS AND INTEGRAL REINFORCED CONCRETE CAP ON TOP OF THE POSTS.

REMOVE LEACHING OR EFFLORESCENCE THAT OCCURS PRIOR TO FINAL ACCEPTANCE OF THE ENTIRE PROJECT AND RESEAL THE AREA AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL ALSO APPLY IN AREAS WHERE A PARTIAL ACCEPTANCE OF THE COMPLETED WALLS MAY HAVE BEEN GRANTED.

THE FOLLOWING REQUIREMENTS FOR THE CONCRETE MIX DESIGN FOR POSTS AND FINIALS IS REQUIRED:

a. IN ADDITION TO THE SECTION 6. MATERIAL SPECIFICATIONS, CONCRETE, OF THE GENERAL NOTES FOR ITEM SPECIAL - NOISE BARRIERS, FROM THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION. OFFICE OF STRUCTURAL ENGINEERING STANDARD DRAWING NBS-1-09 - NOISE BARRIER SPECIFICATIONS FOR GROUND MOUNTED APPLICATIONS, THE CONCRETE MIX DESIGN FOR POSTS, AND FINIALS SHALL CONTAIN A PERMANENT, NON-SOLUBLE CRYSTALLINE CAPILLARY WATERPROOFING ADMIXTURE. PENETRON, BASF MASTERLITE 300D, SIKA WT-240P AND SIKA MIX AE-6 ARE ODOT APPROVED CONCRETE WATERPROOFING ADMIXTURES.

ITEM 606 - SPECIAL - NOISE BARRIER (REFLECTIVE), INFINITY WALL

PANEL IDS 1-14 OF NOISE BARRIER E SHALL BE MANUFACTURED AND DELIVERED TO THE PROJECT SITE BY NOISE WALL BARRIER (NWB) LLC. THE CONTRACTOR IS DIRECTED TO CONTACT JIM THOMPSON OF NWB AT 614-429-7635 TO COORDINATE PROJECT SCHEDULES INCLUDING, BUT NOT LIMITED TO, MANUFACTURE AND DELIVERY OF NOISE BARRIER PANELS. NWB SHALL PROVIDE THE INFINITY NOISE BARRIER PANELS AT THE SAME COST AS ITEM - 606 NOISE BARRIER (REFLECTIVE). THE PROVIDED NOISE BARRIER PANELS SHALL MATCH DETAILS IN NBS-1-09. THE PANELS SHALL MATCH THE PANEL SIZES IN THE NOISE WALL SHOP DRAWINGS AND SHALL MATCH COLOR AND TEXTURE OF CONCRETE PANELS IN THE REMAINDER OF THE WALL SECTION. INSTALLATION OF THESE PANELS WILL BE PERFORMED BY THE PRIME CONTRACTOR. THE POSTS SHALL BE PROVIDED BY THE CONRETE NOISE WALL SUPPLIER, NOT NWB.

PAYMENT FOR THESE SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT ITEM 606 - SPECIAL - NOISE BARRIER (RELECTIVE), INFINITY WALL, UNLESS OTHERWISE NOTED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

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