

ITEM 606 SPECIAL - NOISE BARRIER, MISC.: - STRUCTURE MOUNTED TL-4 NOISE BARRER

THIS ITEM SHALL INCLUDE INSTALLING THE CYRO PARAGLAS SOUNDSTOP PANELS (OR AN APPROVED EQUAL) AS SHOWN ON SHEETS 976 TO 976A & 976B.

PAYMENT FOR THE BRIDGE MOUNTED TL-4 NOISE BARRIER SHALL BE PER SQUARE FOOT. MEASUREMENT FOR PAYMENT SHALL BE AS CALCULATED FROM THE TOP OF THE BRIDGE PARAPET TO THE TOP OF THE BARRIER MULTIPLIED BY THE LENGTH. THE UNIT PRICE BID PER SQUARE FOOT OF ITEM 606 SPECIAL - NOISE BARRIER, MISC.: STRUCTURE MOUNTED TL-4 NOISE BARRIER SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, SHOP DRAWINGS AND OTHER INCIDENTALS REQUIRED TO MAKE THIS ITEM COMPLETE IN PLACE. PAYMENT FOR THE PARAPET SHALL NOT BE INCLUDED IN THIS ITEM.

**ITEM 606 - SPECIAL - NOISE BARRIER (ABSORPTIVE). OVER 10: TO 14: HEIGHT
ITEM 606 - SPECIAL - NOISE BARRIER (ABSORPTIVE). OVER 14: TO 20: HEIGHT**

THESE ITEMS SHALL BE AS SHOWN IN THE DETAILS ON SHEETS 978 TO 1029 OF THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING DETAILED PLANS INCORPORATING THE NOISE BARRIER MATERIALS HE PROPOSES TO USE.

A TRENCH OR FAN NOISE BARRIER WILL NOT BE ACCEPTABLE FOR THIS PROJECT AT ANY OF THE LOCATIONS.

TYPICAL SECTIONS ARE SHOWN FOR NOISE BARRIERS MOUNTED WITHIN THE FLANGES OF THE POSTS.

CONCRETE POSTS SHALL BE USED.

ABSORPTIVE CONCRETE PANELS WITH A BRICK RELIEF SHALL BE USED AS DETAILED ON SHEET 973 . ABSORPTIVE SIDE SHALL FACE HIGHWAY.

PLAN QUANTITIES AND DETAILS HAVE BEEN DEVELOPED FOR 8 & 16-FOOT PANEL WIDTHS. OTHER PANEL WIDTHS ARE ACCEPTABLE TO AVOID UNDERGROUND FEATURES AND TO MEET THE OVERALL WALL LENGTHS BETWEEN BENDS ONLY. PANEL SPACING ON A LONGITUDINAL 2:1 SLOPE SHALL BE A MAXIMUM 16- FEET.

HORIZONTAL JOINTS AND LINES BETWEEN PANELS SHALL MATCH FOR A MINIMUM DISTANCE OF 500 FEET FOR AESTHETIC PURPOSES. MISMATCH OF LINES IS ACCEPTABLE IN THE TOP PANEL WHERE THERE IS AN ELEVATION CHANGE.

THE CONTRCTOR SHALL BE PAID FOR S.F. OF NOISE BARRIER AS CALLED FOR ON SHEETS 978 TO 1005 . ANY ADDITIONAL SQUARE FEET SHALL BE AT THE CONTRACTOR'S EXPENSE EXCEPT WHEN THE EXISTING GROUND LINE ALONG THE WALL, AS FIELD MEASURED, IS LOWER THAN WHAT IS SHOWN IN THE PLANS BY AN AMOUNT REQUIRING EQUIVALENT TO THE PROPOSED MEDIAN THEORETICAL TOP OF WALL.

THE CALCULATED NOISE WALL AREA SHOWN IN THE PLANS IS BASED UPON A 1-FOOT INCREMENTAL PANEL HEIGHT. IF THE PANELS SUPPLIED HAVE GREATER MINIMUM INCREMENTS AND THEREFORE EXTEND ABOVE THE TOP OF WALL ELEVATION OR BELOW THE BOTTOM OF WALL ELEVATION, AS SHOWN IN THE PLANS, THE ADDITIONAL WALL AREA WILL NOT BE INCLUDED IN THE MEASURED AREA FOR PAYMENT.

DRAINAGE DETAILS ON SHEET 975 SHALL BE FOLLOWED TO ASSURE POSITIVE DRAINAGE UNDER THE NOISE BARRIER.

PRIOR TO THE CREATION OF THE SHOP DRAWINGS, THE CONTRACTOR SHALL PERFORM A FIELD SURVEY, UTILITY LOCATIONS SHALL BE INCLUDED IN THIS SURVEY BUT SHALL BE PERFORMED BY THE OWNER OF THE UTILITY. THIS INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS AND ALL FOUNDATIONS MOVED TO AVOID ANY UNDERGROUND FEATURES.

THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT AND APPROVED BY THE PROJECT ENGINEER.

ITEM 606 - SPECIAL - NOISE BARRIER (REFLECTIVE). OVER 10: TO 14: HEIGHT

PANELS USED FOR THIS ITEM WILL BE TRANSPARENT DURISOL PARAGLAS SOUNDSTOP READY-FIT PANEL FORMAT WITH AN ALUMINUM FRAME OR APPROVED EQUAL. ACRYLIC SHEET TYPE TO BE GSCC WITH EMBEDDED BLACK FILAMENTS ORIENTED HORIZONTALLY. ALUMINUM FRAME TO HAVE STANDARD MILL FINISH. ACRYLIC SHEET THICKNESS TO BE DETERMINED BY SUPPLIER, USING AASHTO DESIGN FOR NOISE BARRIERS, AND ALL INTERIM UPDATES, BASED UPON APPLICABLE WIND LOADS FOR THE PROJECT LOCATION.

THIS ITEM SHALL BE AS SHOWN IN THE DETAILS ON SHEETS 978 TO 1029 OF THESE PLANS.

POSTS USED TO SUPPORT REFLECTIVE BARRIER WILL BE ITEM 606 - SPECIAL - NOISE BARRIER, MISC: CONCRETE POST W/ BASE PLATE, AS PER PLAN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING DETAILED PLANS INCORPORATING THE NOISE BARRIER MATERIALS HE PROPOSES TO USE, WHICH SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR INSTALLATION. DETAILS SHALL INCLUDE ATTACHMENT, SUPPORT, CAP, LIFTING/HANDLING, AND INSTALLATION DETAILS.

PLAN QUANTITIES AND DETAILS HAVE BEEN DEVELOPED FOR 8 & 16-FOOT PANEL WIDTHS. MAXIMUM POST SPACING SHALL BE 16 FEET. OTHER PANEL WIDTHS ARE ACCEPTABLE TO AVOID UNDERGROUND FEATURES AND TO MEET THE OVERALL WALL LENGTHS BETWEEN BENDS ONLY. PANEL SPACING ON A LONGITUDINAL 2:1 SLOPE SHALL BE A MAXIMUM 16- FEET.

CLIP ANGLES SHALL BE USED FOR ALL POSTS AND PANEL TYPE WALLS TO HOLD THE BOTTOM WALL PANEL LEVEL IN ORDER TO MAINTAIN A LEVEL WALL. THESE ANGLES SHALL MEET THE MANUFACTURER'S SPECIFICATIONS DEPENDING ON THE NOISE WALL MATERIAL TYPE.

HORIZONTAL LINES BETWEEN PANELS SHALL MATCH, EXCEPT AT 90-DEGREE ANGLE BREAKS. MISMATCH OF LINES IS ACCEPTABLE IN THE TOP PANEL WHERE THERE IS AN ELEVATION CHANGE. MISMATCH OF LINES IS ACCEPTABLE AT LONGITUDINAL DISTANCES OF 500 FEET (MAX) IN ORDER TO MINIMIZE EXCESS WALL AREA.

THE CONTRCTOR SHALL BE PAID FOR S.F. OF NOISE BARRIER AS CALLED FOR ON SHEETS 978 TO 1005 . ANY ADDITIONAL SQUARE FEET SHALL BE AT THE CONTRACTOR'S EXPENSE EXCEPT WHEN THE EXISTING GROUND LINE ALONG THE WALL, AS FIELD MEASURED, IS LOWER THAN WHAT IS SHOWN IN THE PLANS BY AN AMOUNT REQUIRING EQUIVALENT TO THE PROPOSED MEDIAN THEORETICAL TOP OF WALL.

THE CALCULATED NOISE WALL AREA SHOWN IN THE PLANS IS BASED UPON A 1-FOOT INCREMENTAL PANEL HEIGHT. IF THE PANELS SUPPLIED HAVE GREATER MINIMUM INCREMENTS AND THEREFORE EXTEND ABOVE THE TOP OF WALL ELEVATION OR BELOW THE BOTTOM OF WALL ELEVATION, AS SHOWN IN THE PLANS, THE ADDITIONAL WALL AREA WILL NOT BE INCLUDED IN THE MEASURED AREA FOR PAYMENT.

THE SHOP DRAWINGS DETAILING ALL TRANSPARENT FRAME ASSEMBLIES, POST CONNECTION DETAILS, ETC, STAMPED BY AN OHIO PROFESSIONAL ENGINEER SHALL BE SUBMITTED BY THE TRANSPARENT PANEL SUPPLIER TO THE DISTRICT FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER.

ABBREVIATIONS:

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| N.F. - NEAR FACE | P.E.J.F. - PREFORMED EXPANSION |
| F.F. - FAR FACE | JOINT FILLER |
| E.F. - EACH FACE | P.C.P.P. - PERFORATED CORRUGATED |
| TYP. - TYPICAL | PLASTIC PIPE |
| MIN. - MINIMUM | N.P.C.P.P. - NON-PERFORATED CORRUGATED |
| STA. - STATION | PLASTIC PIPE |
| SPA. - SPACES | INV. - INVERT |
| CONST. - CONSTRUCTION | FWD. - FORWARD |
| EL. ELEVATION | ABUT. - ABUTMENT |
| C.I.P. - CAST-IN-PLACE | CONC. - CONCRETE |
| BRG. - BEARING | EA. - EACH |
| EX. - EXISTING | STD. - STANDARD |
| PROP. - PROPOSED | DWG. - DRAWING |
| A.P.P. - AS PER PLAN | DIA. - DIAMETER |
| R.A. - REAR ABUTMENT | E.B. - EASTBOUND |
| F.A. - FORWARD ABUTMENT | W.B. - WESTBOUND |
| O/O - OUT TO OUT | W.P. - WORK POINT |
| CLR. - CLEAR | C/C - CENTER TO CENTER |
| LT. - LEFT | STRUCT. - STRUCTURE |
| RT. - RIGHT | TEMP. - TEMPORARY |
| EST. - ESTIMATE | C.J. - CONSTRUCTION JOINT |

ITEM 606 - SPECIAL - NOISE BARRIER, MISC: CONCRETE NOISE BARRIER POST W/BASE PLATE

POSTS TO BE USED IN CONJUNCTION WITH MOMENT SLAB. SEE SHEET 977 FOR MOMENT SLAB AND BASE PLATE DETAILS.

CONCRETE POST SHALL BE COLORED BUFF, AND BE OF SAME TYPE AND STYLE AS THOSE USED IN ITEM 606 - SPECIAL - NOISE BARRIER, MISC: CONCRETE NOISE BARRIER POST AND DRILLED SHAFT FOUNDATION.

THIS ITEM SHALL BE AS SHOWN IN THE DETAILS ON SHEETS 978 TO 1029 OF THESE PLANS.

THIS ITEM INCLUDES ALL MATERIALS AND LABOR REQUIRED FOR THE PRODUCTION, PLACEMENT, AND LEVELING OF THE CONCRETE POST ON THE MOMENT SLAB PIERS, INCLUDING BUT NOT LIMITED TO: POST, BASE PLATE, LEVELING NUTS AND HARDWARE, AND GROUT. PIER, INCLUDING ANCHOR BOLTS, PAID FOR SEPERATELY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING DETAILED PLANS INCORPORATING THE NOISE BARRIER MATERIALS HE PROPOSES TO USE, WHICH SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR INSTALLATION.

THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT AND APPROVED BY THE PROJECT ENGINEER.

ITEM 606 - SPECIAL - NOISE BARRIER, MISC: CONCRETE NOISE BARRIER POST AND DRILLED SHAFT FOUNDATION.

ITEM INCLUDES ALL MATERIALS AND LABOR REQUIRED TO PLACE CONCRETE NOISE WALL POST ON DRILLED SHAFT FOUNDATION. THIS INCLUDES DRILLING AND CONSTRUCTION OF FOUNDATION, PLACEMENT AND LEVELING OF POST INCLUDING ALL ASSOCIATED HARDWARE

CONCRETE POST SHALL BE BUFF IN COLOR

THIS ITEM SHALL BE AS SHOWN IN THE DETAILS ON SHEETS 978 TO 1029 OF THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING DETAILED PLANS INCORPORATING THE NOISE BARRIER MATERIALS HE PROPOSES TO USE, WHICH SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR INSTALLATION.

THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT AND APPROVED BY THE PROJECT ENGINEER.

IF, AFTER THE SHOP DRAWINGS HAVE BEEN APPROVED, THE AVOIDANCE OF UTILITIES REQUIRES THAT A CLOSER POST SPACING BE USED, PAYMENT WILL BE MADE FOR THE ADDITIONAL POSTS AND FOUNDATIONS REQUIRED, ON A PER EACH BASIS. A SHORTER PANEL MAY BE MADE BY CUTTING A STANDARD PANEL TO SIZE. PAYMENT FOR THIS ADDITIONAL WORK SHALL INCLUDE THE COST FOR THE ADDITIONAL POST AND FOUNDATION, AND CUTTING THE PANELS TO SIZE. THE FOLLOWING ESTIMATED QUANTITY IS INCLUDED IN THE GENERAL SUMMARY TO PERFORM THIS WORK AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - NOISE BARRIER, MISC: NOISE WALL POST AND FOUNDATION 20 EACH

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