

# GENERAL NOTES

## ITEM 605 AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT FIFTY (50) FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, OR AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY:

ITEM 605 - AGGREGATE DRAINS . . . . . 260 LIN. FT.

## FARM DRAINS

ALL FARM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS UNDER THE DIRECTION OF THE ENGINEER. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS AND WHICH CROSS THE ROADWAY SHALL BE REPLACED WITH THE RIGHT-OF-WAY LIMITS BY ITEM 603 CONDUIT, TYPE B WITH CLASS B BEDDING, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF THE ROADWAY DITCHES SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE, IF POSSIBLE, ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL TILE FIELDS WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603 TYPE E CONDUIT AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 6" CONDUIT, TYPE B WITH CLASS B BEDDING . . . . . 100 LIN. FT.  
ITEM 603 6" CONDUIT, TYPE E . . . . . 100 LIN. FT.

AND NECESSARY PIPE SPECIALS WHICH SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL REQUESTED BY THE ENGINEER.

## EROSION CONTROL

ITEMS 601 AND 660 ARE PROVIDED IN THESE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

## PLUGGING PIPE

THE UPSTREAM ENDS OF ALL PIPE OR TILE LINES INTERCEPTED BY EARTHWORK OPERATIONS SHALL BE EFFECTIVELY BLOCKED AND COVERED. BROKEN PIECES AND PORTIONS OF PIPE OR TILE SHALL BE REMOVED UNTIL A WHOLE LENGTH IS ENCOUNTERED WHICH SHALL BE BLOCKED WITH CONCRETE, FLAT STONE OR BRICK LINED IN MORTAR, OR A PRECAST CLAY OR CONCRETE STOPPER. PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM E-1, ROADWAY EXCAVATION.

## GUARD RAIL TYPE 4, MODIFIED, AS PER PLAN

SUBSEQUENT TO THE COMPLETION OF THE PLANS FOR THIS PROJECT, SEVERAL MODIFICATIONS TO THE DESIGN AND LOCATION DETAILS OF GUARD RAIL HAVE BECOME NECESSARY IN ORDER TO COMPLY WITH RECENTLY INAUGURATED SAFETY CONCEPTS AS FOLLOWS:

- (1) THE POST SPACING FOR ALL TYPE 4 GUARD RAIL SHALL BE AT 6'-3" INTERVALS WITH SPACER BLOCKS ATTACHED BETWEEN THE POSTS AND RAIL ELEMENT.
- (2) ALL APPROACH (ENTRANCE) ENDS OF TYPE 4 GUARD RAIL SHALL BE CONSTRUCTED WITH NEW GUARD RAIL APPROACH END ASSEMBLIES, AS DETAILED ON PLAN SHEET NO. 49-A.

TYPE 4 GUARD RAIL WITH POST SPACING AT 6'-3", SPACER BLOCKS, AND NEW APPROACH END ASSEMBLIES, WILL BE PAID FOR AS ITEM 606 GUARD RAIL, TYPE 4, MODIFIED, AS PER PLAN, AT THE CONTRACT UNIT PRICE PER LINEAL FOOT, COMPLETE IN PLACE.

## CROSS REFERENCE FOR STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

1967	1963
BP-5 . . . . .	T-35
BP-6 . . . . .	DR-1
BP-7 . . . . .	I-12
MC-1 . . . . .	RI-1
MC-3 . . . . .	G-7.07
MC-4 . . . . .	I-1
MC-6 . . . . .	I-21-23
FAC.I-1 . . . . .	FAC.I-1
FAC.I-2 . . . . .	FAC.I-2
HW-E . . . . .	HW-E
CB 2-2-A&B . . . . .	I-8 CB 2-2-A&B
<del>CB-7</del> . . . . .	<del>I-8 CB NO. 7</del>
I-2 . . . . .	I-8 I. NO. 2
MH-1 . . . . .	I-8 MH NO. 1
MH-1A . . . . .	I-8 MH NO. 1-A
<del>MH-2</del> . . . . .	<del>I-8 MH NO. 2</del>
6R-1 . . . . .	I-15 NO. 1
6R-2A . . . . .	I-15 NO. 2-A
L-1 . . . . .	L-1
NOT A CURRENT STD. DRWG.	L-3
NOT A CURRENT STD. DRWG.	L-3-A
SBC-45 (SHTS. 1 & 2) . . . . .	SBC-45 (SHTS. 1 & 2)
814 . . . . .	I-124
NOT A CURRENT SUP SPEC.	I-212
801 . . . . .	CE 101.04

## ITEM 604 MANHOLES ADJUSTED TO GRADE

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 604 MANHOLES, ADJUSTED TO GRADE . . . . . 5 EA.  
ITEM 604 SANITARY MANHOLES, ADJUSTED TO GRADE . . . . . 10 EA.

## EXISTING WATER MAIN AND SANITARY SEWER

THE CITY OF WILLOUGHBY HAS INSTALLED A NEW WATER MAIN AND SANITARY SEWER ON THIS PROJECT WHICH CONFORM TO THE PROPOSED PLAN GRADE. THE FIRE HYDRANTS AT STATIONS 150+35, 152+87, 156+33 AND 159+38 ARE SET PLAN GRADE AND PROTECTED BY STEEL BARRELS. THE SANITARY MANHOLES AT STATIONS 146+45, 149+45, 152+45 AND 155+45 ARE ALSO SET AT PLAN GRADE AND MARKED BY 4" X 4" WOODEN POSTS.