

GENERAL NOTES

ITEM 604 - MANHOLE AND CATCH BASIN REPLACEMENT

ALL EXISTING STRUCTURES TO REMAIN HAVE BEEN FIELD CHECKED TO DETERMINE THAT THE STRUCTURES ARE ADEQUATE TO REMAIN IN USE. HOWEVER, EXISTING STRUCTURES MAY PROVE TO BE UNSUITABLE, AS DETERMINED BY THE ENGINEER, DURING CONSTRUCTION OF THIS PROJECT. TO PROVIDE FOR THIS CONTINGENCY, AN ESTIMATED QUANTITY OF THE FOLLOWING HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 202 - MANHOLE REMOVED	2 EACH
ITEM 604 - MANHOLE, NO. 3, AS PER PLAN	2 EACH
ITEM 202 - CATCH BASIN OR INLET REMOVED	5 EACH
ITEM 604 - CATCH BASIN, NO. 2-2B, AS PER PLAN	5 EACH

EXISTING CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT-OF-WAY FOR SALVAGE BY CITY FORCES. PAYMENT FOR REMOVAL AND STORAGE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 202 ITEM.

ITEM SPECIAL, MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIALS SHALL MEET ITEM 604 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL, MISCELLANEOUS METAL	4000 LBS.
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THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP, AS PER PLAN

THE INSTALLATION OF ITEM 605 ALONG S.R. 615 SHALL BE CONDUCTED AFTER THE INSTALLATION OF THE CURB AND PAVEMENT TO PREVENT DAMAGE TO ITEM 605. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER.

SPRING DRAINS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR DRAINING ANY SPRINGS SHOWN IN THE PLAN OR ENCOUNTERED DURING CONSTRUCTION. THE FOLLOWING TYPES OF PIPES MAY BE USED: 707.17, ASTM D3034 SDR 35, SS 931 OR SS 944 PERFORATED PER 707.15.

SPRING DRAINS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1M AND PAID FOR AT THE CONTRACT PRICE FOR:

ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN, FOR SPRINGS	100 L.F.
ITEM 605 - AGGREGATE DRAIN, FOR SPRINGS	100 L.F.

INDIANA BAT

THE PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS). THE PROJECT MAY IMPACT SUMMER AND BROOD REARING HABITATS FOR THIS SPECIES (I.E., TREES OVER NINE INCHES DIAMETER BREST HEIGHT WITH LOOSE OR PEELING BARK AND/OR CAVITIES GREATER THAN 3-4

INCHES IN SIZE). TO PREVENT HARM TO THESE BATS, THE REMOVAL OF POTENTIAL ROOST TREES IS COMPLETE. EIGHT TREES ON THE NORTH SIDE OF S.R. 615 AND 17 TREES IN THE RETENTION BASIN HAVE BEEN CUT TO THE GROUND. THE CONTRACTOR IS STILL RESPONSIBLE FOR TREE AND STUMP REMOVAL AS PER ITEM 201-CLEARING AND GRUBBING.

SANITARY SEWERAGE NOTES

1. THE CONTRACTOR'S ATTENTION IS CALLED TO 107.02 OF THE O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SHALL CONTACT MR. ALBERT SAARI, P.E. (SANITARY ENGINEER) OF THE LAKE COUNTY UTILITIES DEPARTMENT FOR SPECIFIC CHARGES AND REQUIREMENTS FOR THIS PROJECT.
2. NO MANUFACTURED ADJUSTING RINGS WILL BE PERMITTED ON SANITARY MANHOLES. SANITARY MANHOLE CASTINGS SHALL ONLY BE ADJUSTED TO GRADE UTILIZING RED SHALE BRICK AS SPECIFIED BELOW.
3. THE TOTAL MAXIMUM NUMBER OF FULL BRICK COURSES (EXISTING AND NEW) ALLOWED IS NINE (9) COURSES, UNLESS OTHERWISE DIRECTED BY THE LAKE COUNTY UTILITIES DEPARTMENT. ALL PROPOSED SANITARY MANHOLE ADJUSTMENTS ARE ANTICIPATED TO MEET THIS REQUIREMENT.
4. THE TOP EXISTING MANHOLE STEP SHALL NOT BE MORE THAN 2'-0" BELOW THE TOP OF FRAME UNLESS OTHERWISE DIRECTED BY THE LAKE COUNTY UTILITIES DEPARTMENT. ALL PROPOSED SANITARY MANHOLE ADJUSTMENTS ARE ANTICIPATED TO MEET THIS REQUIREMENT.
5. ALL SEWER BRICK SHALL BE MADE FROM SHALE SEWER BRICK AND SHALL BE SMOOTH, SOUND, HARD, TOUGH, AND THOROUGHLY VITRIFIED. THEY SHALL BE TRUE IN FORM WITH STRAIGHT SHARP EDGES AND FLAT SURFACES, AND SHALL BE UNIFORM IN QUALITY, CROSS-SECTION AND DIMENSIONS. SHALE SEWER BRICK FURNISHED OR USED UNDER THESE SPECIFICATIONS SHALL COMPLY WITH ALL THE REQUIREMENTS FOR GRADE S.S., ASTM C-32 SO FAR AS THE SAME MAY APPLY AND ARE NOT IN CONFLICT WITH THESE SPECIFICATIONS.

UNRECORDED SANITARY CONNECTIONS

ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SEWER, AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONDUIT TYPE MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 PS46 MIN., OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12. THE FOLLOWING ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 - 6" CONDUIT, TYPE B, FOR SANITARY	75 L.F.
ITEM 603 - 8" CONDUIT, TYPE B, FOR SANITARY	75 L.F.

NECESSARY COUPLINGS BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER. ALL SANITARY CONNECTION METHODS & MATERIALS SHALL BE APPROVED BY THE LAKE COUNTY UTILITIES DEPARTMENT.

TREATED SEPTIC CONNECTIONS

TREATED SANITARY FLOW MAY BE DISCHARGED INTO THE HIGHWAY DRAINAGE SYSTEM PROVIDED THE OWNER HAS SECURED THE APPROVAL OF LAKE COUNTY HEALTH DEPT. AND HAS ACQUIRED FROM MENTOR CITY ENGINEER, THE OFFICIAL PERMIT TO HAVE THE CONNECTION MADE.

IN EACH CASE WHERE A PERMIT HAS BEEN ISSUED FOR MAKING A TREATED SEPTIC CONNECTION INTO A HIGHWAY DRAINAGE CONDUIT, AN INSPECTION WELL SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DM-3.1M.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER, IN MAKING THE ABOVE DESCRIBED CONNECTIONS:

ITEM 603 - 6" CONDUIT, TYPE B, AS PER PLAN, 706.08	100 L.F.
ITEM 603 - 6" CONDUIT, TYPE C, AS PER PLAN, 706.08	100 L.F.
ITEM 604 - INSPECTIONS WELLS	3 EACH

NECESSARY COUPLINGS, BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

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

EXTENSIONS AND/OR REPLACEMENT OF EXISTING SANITARY CONDUITS

THE COST OF EXTENDING AND/OR REPLACING THE EXISTING CONDUITS TO NEW SANITARY SEWERS OR REBUILT SANITARY MANHOLES SHALL BE PAID FOR BY THE SIZE AND TYPE SPECIFIED AND/OR APPROVED BY THE ENGINEER. THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 PS46 MIN., 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12. CONTINGENCY QUANTITIES OF THE FOLLOWING ITEMS ARE PROVIDED IN THE GENERAL SUMMARY FOR THIS WORK.

ITEM 603 - 6" CONDUIT, TYPE B, FOR SANITARY	175 L.F.
ITEM 603 - 6" CONDUIT, TYPE C, FOR SANITARY	100 L.F.
ITEM 603 - 8" CONDUIT, TYPE B, FOR SANITARY	175 L.F.
ITEM 603 - 8" CONDUIT, TYPE C, FOR SANITARY	100 L.F.
ITEM 603 - 15" CONDUIT, TYPE B, FOR SANITARY	100 L.F.

NECESSARY COUPLINGS BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

ALL SANITARY CONNECTION METHODS & MATERIALS SHALL BE APPROVED BY THE LAKE COUNTY UTILITIES DEPARTMENT.

MAILBOX REMOVAL

CONTRACTOR TO CONTACT UNITED STATES POSTAL SERVICE MENTOR, OHIO, 44060 REGARDING DISPOSITION OF MAIL BOX AT S.R. 615, STA. 25+50, RT., CONTRACTOR SHALL REMOVE BOX IF REQUESTED, AND REMOVE CONCRETE PAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 203 AND NO SEPARATE PAY ITEM IS PROVIDED. SEE REFERENCE R-8 ON SHEET NO. 71.