

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AMERITECH
150 E. GAY STREET, ROOM 6-C
COLUMBUS, OHIO 43215
(614)223-8535

GUERNSEY-MUSKINGUM RURAL ELECTRIC COOPERATIVE
17 S. LIBERTY STREET
NEW CONCORD, OHIO 43762
(614)826-7661

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED 'AS DIRECTED BY THE ENGINEER' UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ITEM 605. AGGREGATE DRAINS

AGGREGATE DRAINS APPROXIMATELY 1.5 METERS LONG SHALL BE PLACED AS SHOWN ON SHEET 3 AT THE FOLLOWING LOCATIONS:

STATE ROUTE 60
RIGHT SIDE: 43+504.5,+530.0,
LEFT SIDE: 43+512.0,+537.5

TOTAL ESTIMATED QUANTITY = 6 METERS

DEPARTMENT OF INDUSTRIAL RELATIONS INSPECTION

THERE IS A RULE THAT ALL NEW OR RELOCATED ELECTRIC SERVICE ENCLOSURES ARE TO BE INSPECTED BY A LICENSED STATE INSPECTOR PRIOR TO A CONNECTION TO A UTILITY DISTRIBUTION LINE. THIS RULE IS NOW BEING ENFORCED BY THE UTILITY COMPANIES AND THE OHIO DEPARTMENT OF INDUSTRIAL RELATIONS. THIS IS A NEW SITUATION FOR ODOT BECAUSE STATE INSPECTIONS ARE NOW BEING REQUIRED FOR TRAFFIC CONTROL DEVICES AND LIGHTING INSTALLATIONS. THE CONTRACTOR SHALL APPLY FOR THE INDUSTRIAL RELATIONS INSPECTION(S); PAY THE APPROPRIATE FEE(S) TO THE INDUSTRIAL RELATIONS DEPARTMENT AND ADVISE THE DISTRICT ROADWAY SERVICES MANAGER OF THE TIME OF THE INSPECTION(S), SO THAT HE MAY HAVE A REPRESENTATIVE ATTENDANCE. IT IS TO BE NOTED THAT THE INDUSTRIAL RELATIONS INSPECTION IS NOT A SUBSTITUTE FOR ODOT'S FINAL INSPECTION, NOR DOES IT SUPERSEDE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

THE COST OF THE INDUSTRIAL RELATIONS INSPECTION(S) SHALL BE CONSIDERED AS INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE LIGHTING INSTALLATIONS OF TRAFFIC CONTROL DEVICES.

ITEM 606. ANCHOR ASSEMBLY, TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING AN ET-2000, OPTION 'C' GUARDRAIL END TERMINAL AS MANUFACTURED BY SYRO STEEL COMPANY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE 330-545-4373).

THE ANCHOR ASSEMBLY SHALL BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPECIFICATIONS AND AT THE LOCATIONS SHOWN IN THE PLANS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE CONTRACT PRICE FOR 606, EACH, ANCHOR ASSEMBLY, TYPE E. PAYMENT SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT THE 7.62-METER LONG ANCHOR ASSEMBLY, INCLUDING ALL RELATED HARDWARE, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER TO INSTALL A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY. THIS ITEM SHALL ALSO INCLUDE PAYMENT OVER AND ABOVE THE COST OF STANDARD TYPE 5 GUARDRAIL FOR INSTALLING TYPE 1 BREAKAWAY POSTS PER STANDARD CONSTRUCTION DRAWING GR-1.3 AT THE FOLLOWING LOCATIONS: 1) AT THE POINT WHERE THE ANCHOR ASSEMBLY AND THE GUARDRAIL RUN MEET; AND 2) AT THE NEXT THREE (3) POST LOCATIONS INTO THE GUARD RAIL RUN.

ITEM 659. SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR ITEM 659, SEEDING AND MULCHING, ARE BASED ON THESE LIMITS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:
659, SEEDING AND MULCHING 1184 SQ. METER

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR PERMANENT SEEDED AREAS PER 659.09:
659, WATER 12 CU. METER

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207, STRAW OR HAY BALES 50 EACH
207, FILTER FABRIC FENCE 100 METER

ITEM 611 REINFORCED CONCRETE APPROACH SLAB (T=305mm), AS PER PLAN

MECHANICAL SPLICES DUE TO PART WIDTH CONSTRUCTION SHALL BE PROVIDED IN CONFORMANCE WITH ITEM 509. MATERIALS, LABOR AND INSTALLATION OF MECHANICAL SPLICES SHALL BE INCLUDED WITH ITEM 611 REINFORCED CONCRETE APPROACH SLAB (T=305mm), AS PER PLAN.

NOTIFICATION OF WORK ZONE LANE RESTRICTIONS

THE CONTRACTION SHALL NOTIFY THE ENGINEER AT LEAST TWENTY-ONE (21) DAYS PRIOR TO IMPLEMENTING ANY WORK ZONE RESTRICTIONS WHICH WILL REDUCE THE WIDTH OF ANY LANE ON WHICH TRAFFIC WILL BE MAINTAINED DURING CONSTRUCTION.

THE ENGINEER SHALL IMMEDIATELY NOTIFY THE DISTRICT CONSTRUCTION ENGINEER TO ADVISE THE OFFICE OF HIGHWAY MANAGEMENT OF THE RESTRICTIONS.

ITEM 614 OBJECT MARKERS

PROPOSED ITEM 614 MARKERS HAVE BEEN DOUBLED FOR BI-DIRECTIONAL TRAFFIC. THE PHASE 2 QUANTITY OF 26 EACH SHALL BE NON-PERFORMED IF THE PROJECT ENGINEER CONSIDERS THE PHASE 1 OBJECT MARKERS ACCEPTABLE FOR PHASE 2 AFTER THE PORTABLE CONCRETE BARRIER HAS BEEN MOVED.

EROSION CONTROL

ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THIS ITEM SHALL MEET THE REQUIREMENT OF 108.04.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND CONSTRUCTING THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

REFERENCE MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET 23. 4 REFERENCE MONUMENTS HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE WITH THIS ITEM.

ITEM 407. TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.34 LITERS PER SQUARE METER OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 407. TACK COAT (FOR INTERMEDIATE COURSE)

TACK COAT SHALL BE APPLIED AT AN AVERAGE APPLICATION RATE OF 0.23 LITERS PER SQUARE METER BETWEEN THE ASPHALT CONCRETE SURFACE COURSE AND THE INTERMEDIATE COURSE.

ITEM 642. EDGE LINE, TYPE 1

AFTER ALL CONSTRUCTION IS COMPLETED, EDGE LINES SHALL BE PLACED FROM STA. 43+480 TO STA. 43+560 OR AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

642, EDGE LINE, TYPE 1 0.16 KM

ITEM 642. CENTER LINE, TYPE 1

AFTER ALL CONSTRUCTION IS COMPLETED, CENTER LINES SHALL BE PLACED FROM STA. 43+480 TO STA. 43+560. THE CENTER LINE SHALL BE SOLID DOUBLE YELLOW FROM STA. 43+480 TO STA. 43+520. FROM STA. 43+520 TO STA. 43+560, THE CENTER LINE SHALL BE DASHED FOR NORTHBOUND TRAFFIC (PASSING PERMITTED) AND SOLID FOR SOUTHBOUND TRAFFIC (PASSING PROHIBITED) UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

642, CENTER LINE, TYPE 1 0.08 KM

STREAM CHANNEL EXCAVATION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT AND INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEAN OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

EXISTING SIGNS

ALL EXISTING SIGNS AND POST SUPPORTS WITHIN THE WORK LIMITS AND CALLED OUT ON SHEET 6 OF 25 SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING

ITEM 626. BARRIER REFLECTORS, TYPE A

STATE ROUTE 60

RIGHT SIDE: 3 EACH, 6.6 M RT., EVENLY SPACED
STA. 43+484.946 TO STA. 43+559.241
LEFT SIDE: 3 EACH, 6.6 M LT., EVENLY SPACED
STA. 43+483.772 TO STA. 43+558.067

TOTAL ESTIMATED QUANTITY = 6 EACH

TEMPORARY STREAM CROSSING FORDS

WHERE STREAM CROSSING FORDS ARE REQUIRED FOR EQUIPMENT CROSSING, THE CROSSING SHALL CONSIST OF CLEAN NON-TOXIC GRANULAR OR ROCK MATERIAL, PROPERLY MAINTAINED TO PREVENT EROSION, WITH PROVISIONS FOR CONVEYANCE OR ANTICIPATED HIGH FLOWS, AND SHALL NOT IMPEDE THE MOVEMENT OF AQUATIC LIFE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH PART 330, APPENDIX A, SPECIFIC CATEGORIES OF DISCHARGES - NATIONALLY PERMITTED PARAGRAPH (A14), MINOR ROAD CROSSING FILLS - THE FEDERAL REGISTER-CORPS OF ENGINEERS FINAL REGULATIONS, CURRENT EDITION.

IN-STREAM WORK WILL BE LIMITED WHERE PRACTICABLE AND ONLY CLEAN NON-ERODIBLE MATERIAL WILL BE USED FRO FORDS AND COFFERDAMS. THIS TEMPORARILY PLACED MATERIAL WILL BE REMOVED AND THE STREAM BOTTOM RESTORED TO NEAR NATURAL CONDITIONS WHEN THE WORK IS COMPLETED.

THE SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LOCATION AND DESIGN MANUAL AND STANDARD DRAWINGS WILL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

WRITTEN PERMISSION MUST BE OBTAINED BY PROJECT SPONSOR FROM THE CHIEF OF ODNR'S DIVISION OF WILDLIFE FOR ANY NECESSARY IN-STREAM BLASTING.

ITEM 203. EXCAVATION, INCLUDING EMBANKMENT CONSTRUCTION

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF THE EXISTING AND PROPOSED ROADBED, THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL, MEETING THE REQUIREMENTS OF 203.08. THE LOCATIONS AND DIMENSIONS WILL BE AS DETERMINED BY THE ENGINEER.

AN ESTIMATED QUANTITY OF 100 CUBIC METERS OF ITEM 203, EXCAVATION, INCLUDING EMBANKMENT CONSTRUCTION HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED UNTIL SUCH TIME AS THE ENGINEER IS ASSURED OF COMPLIANCE.

DATE FOR COMPLETION

ALL CONSTRUCTION WORK ON THE PROJECT SHALL BE COMPLETED ON OR BEFORE THE ONE HUNDRED TWENTIETH (20) CALENDAR DAY FOLLOWING THE DATE OF THE DISTRICT'S HIGHWAY MANAGEMENT ADMINISTRATOR'S (OR DESIGNEE'S) WRITTEN AUTHORIZATION TO PROCEED WITH THE CONSTRUCTION ACTIVITIES, BUT NO LATER THAN THE COMPLETION DATE INDICATED IN THE PROPOSAL.

THEREFORE, THE AWARDED CONTRACTOR HAS A WINDOW OF TIME IN WHICH TO CONSTRUCT THIS PROJECT. FAILURE TO COMPLETE ALL CONSTRUCTION ACTIVITIES, ONCE INITIATED, EITHER WITHIN THIS WINDOW OF TIME OR BY THE GIVEN DATE FOR COMPLETION SHALL RESULT IN A BREACH OF CONTRACT BY THE AWARDED CONTRACTOR.

CALCULATED
JBM

CHECKED
SAM

GENERAL NOTES

MUS-60-43.500

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