

**Cuyahoga County
Department of Public Works
Cuyahoga County Engineer's
Sample Roadway Notes**

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Note to Designer: In addition, the ODOT Location and Design (L&D) Manual (Volume 1) Roadway Note most frequently used is: R111 Connection Between Existing and Proposed Guardrail.

MONUMENT ASSEMBLIES (10/31/2013)

WHERE THE PLAN CALLS FOR A TYPE 1 CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT ASSEMBLY IN ITS ENTIRETY (IF ONE EXISTS AT THE SAME LOCATION) AND SHALL INSTALL, EXCEPTING THE "MONUMENT PIN", THE ENTIRE MONUMENT ASSEMBLY, INCLUDING THE BOX AS DETAILED ON CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MB-1C. INSTALLATION SHALL BE SUCH THAT WHEN THE "MONUMENT PIN" IS SUBSEQUENTLY PLACED BY THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SURVEYOR, IT CAN BE CENTERED IN THE BOX. PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM 623 - CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1.

WHERE THE PLAN CALLS FOR A TYPE 2 CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, THE CONTRACTOR SHALL INSTALL, EXCEPTING THE "MONUMENT PIN", THE ENTIRE MONUMENT BOX ASSEMBLY AS DETAILED ON CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MB-2C. INSTALLATION SHALL BE SUCH THAT WHEN THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SURVEYOR SUBSEQUENTLY PLACES THE "MONUMENT PIN", IT CAN BE CENTERED IN THE BOX. PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM 623 - CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 2.

IN ACCORDANCE WITH SECTION 107.10 OF THE GENERAL PROVISIONS, DISTURBED PRIVATE RIGHT OF WAY MONUMENTS ON OR OUTSIDE THE PROJECT RIGHT OF WAY LIMITS AND NOT ENCLOSED WITHIN A TEMPORARY EASEMENT FOR THE PROJECT SHALL BE RESET OR REPLACED AT THE CONTRACTOR'S EXPENSE. PRIVATE RIGHT OF WAY MONUMENTS WITHIN THE PROJECT RIGHT OF WAY/TEMPORARY EASEMENTS WHICH ARE UNAVOIDABLY DISPLACED OR DAMAGED DURING THE CONTRACT WORK SHALL BE RESET OR REPLACED IN ACCORDANCE WITH SECTION 107.10 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS AND PAID FOR AT THE PER EACH CONTRACT UNIT PRICE BID FOR "ITEM 623 - RIGHT OF WAY MONUMENT"; ALL AT THE DETERMINATION/DIRECTION OF THE ENGINEER.

EXISTING CLEVELAND REGIONAL GEODETIC SURVEY (CRGS) MONUMENT ASSEMBLIES AS DESCRIBED/SHOWN ON THE PLANS ARE TO BE PROTECTED AND PRESERVED. WHERE NECESSARY AND DESIGNATED ON THE PLANS, CAREFULLY ADJUST THE EXISTING MONUMENT BOX OR SET A NEW MONUMENT BOX TO GRADE WITHOUT DISTURBING THE MONUMENT. WHERE CRGS MONUMENT ASSEMBLIES ARE MARKED ON THE PLANS TO BE REMOVED, THE CONTRACTOR SHALL CAREFULLY REMOVE AND STORE THE MONUMENT CASTINGS AND BRONZE CRGS MARKERS FOR SALVAGE BY THE COUNTY. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL GEODETIC SURVEY OFFICE AT (216) 348-3846 SO THAT THE MONUMENT CASTINGS AND BRONZE CRGS MARKERS MAY BE PICKED UP. PAYMENT SHALL BE MADE UNDER ITEM 202 - MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT.

MONUMENTS SHALL BE LEFT UNDISTURBED UNTIL THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SURVEY OFFICE HAS CHECKED/VERIFIED THE REFERENCES PROVIDED BY THE CONTRACTOR'S SURVEYOR. IN ALL CASES THE CONTRACTOR SHALL CONTACT THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SURVEY OFFICE AT (216) 348-3846 NO LESS THAN TWO (2) WEEKS PRIOR TO THE DISTURBANCE OF ANY EXISTING MONUMENTS.

QUANTITIES FOR THE ABOVE ARE AS ESTIMATED/TABULATED ELSEWHERE IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY.

-OR-

THE FOLLOWING ESTIMATED QUANTITY(IES) IS (ARE) CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 623 - CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1	_____	EACH
ITEM 623 - CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 2	_____	EACH
ITEM 623 - RIGHT OF WAY MONUMENT	_____	EACH
ITEM 202 - MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT	_____	EACH

Designer Note: Cuyahoga County Monument Note typically used on pavement replacement projects. Preferably specify the MB-2C monument assembly for new concrete or new composite pavement construction. The MB-1C monument assembly is typically required for installations in existing/rehabilitated pavement but may be installed in new pavement construction. Reference MB-1C and/or MB-2C on the Title Sheet, as appropriate. Edit note for items and paragraphs necessary, and to depict how and where quantities are generated. The quantity and location of all proposed monuments is normally tabulated on the schematic plan or on the plan and profile sheets. Typically add Cuy-R04 and, if necessary, CUY-R05 with this plan note. Portions of the Cuy-R02 plan note may be added as required.

ITEM 623 – MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN

ITEM 623 – CUYAHOGA COUNTY MONUMENT BOX

ITEM 623 – CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1

ITEM 623 – RIGHT OF WAY MONUMENT (10/31/2013)

WHERE, AS DETERMINED BY THE ENGINEER, EXISTING MONUMENT BOXES ARE SUITABLE FOR REUSE, THEY SHALL REMAIN UNDISTURBED IN PLACE OR, IF/WHERE REQUIRED, THEY SHALL SIMPLY BE ADJUSTED TO GRADE.

EXISTING MONUMENT BOXES THAT ARE BOTH SUITABLE FOR REUSE AND CONFORM TO THE CUYAHOGA COUNTY ENGINEER’S CONSTRUCTION DRAWING MB-1C, MAY BE ADJUSTED USING “ADJUSTING RINGS” AS DETAILED ON THE MB-1C DRAWING. EXISTING MONUMENT BOXES THAT ARE DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR REUSE SHALL BE REMOVED AND REPLACED WITH A CUYAHOGA COUNTY MONUMENT BOX AS DETAILED ON THE CUYAHOGA COUNTY ENGINEER’S CONSTRUCTION DRAWING MB-1C, SET TO GRADE.

CARE AND/OR PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO AVOID DAMAGE OR DISRUPTION OF EXISTING MONUMENTS DURING THE MONUMENT BOX ADJUSTMENT OR REMOVAL AND REPLACEMENT OPERATIONS AND ALL OTHER OPERATIONS IN THE PROXIMITY OF SAID MONUMENTS. THOSE MONUMENTS THAT ARE DISPLACED OR DAMAGED DUE TO THE CONTRACTOR’S NEGLIGENCE SHALL BE REMOVED AND REPLACED WITH A TYPE 1 CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY UNDER THE SUPERVISION OF A LICENSED SURVEYOR; ALL AT THE CONTRACTOR’S EXPENSE. WHERE NO EXISTING MONUMENTS ARE FOUND WITHIN SAID MONUMENT BOXES OR WHERE MONUMENTS ARE DISPLACED OR DAMAGED AT NO FAULT OF THE CONTRACTOR, THEY SHALL BE PLACED OR REPLACED IN ACCORDANCE WITH “ITEM 623 – CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1”, AS SPECIFIED BELOW; ALL AT THE DIRECTION OF THE ENGINEER.

WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT ASSEMBLY IN ITS ENTIRETY AND SHALL INSTALL, EXCEPTING THE “MONUMENT PIN,” THE ENTIRE MONUMENT ASSEMBLY, INCLUDING THE BOX AS DETAILED ON THE CUYAHOGA COUNTY ENGINEER’S CONSTRUCTION DRAWING MB-1C. INSTALLATION SHALL BE SUCH THAT WHEN THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS’ SURVEYOR SUBSEQUENTLY PLACES THE “MONUMENT PIN”, IT CAN BE CENTERED IN THE BOX. PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM 623 – CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1.

EXISTING CONCRETE (BLOCK-OUT) PAVEMENT REMOVED SHALL BE REPLACED USING MEDIUM-SETTING CONCRETE (CLASS QC MS) PER 499.03 OF THE SPECIFICATIONS. ALL WORK SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. PAYMENT FOR THE ABOVE SHALL BE MADE AT THE PER EACH CONTRACT UNIT PRICE BID FOR “ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN,” “ITEM 623 – CUYAHOGA COUNTY MONUMENT BOX” OR “ITEM 623 – CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1”.

IN ACCORDANCE WITH SECTION 107.10 OF THE CUYAHOGA COUNTY ENGINEER’S GENERAL PROVISIONS, DISTURBED PRIVATE RIGHT OF WAY MONUMENTS ON OR OUTSIDE THE PROJECT RIGHT-OF-WAY LIMITS AND NOT ENCLOSED WITHIN A TEMPORARY EASEMENT FOR THE PROJECT SHALL BE RESET OR REPLACED AT THE CONTRACTOR’S EXPENSE. PRIVATE RIGHT OF WAY MONUMENTS WITHIN THE PROJECT RIGHT OF WAY/TEMPORARY EASEMENTS WHICH ARE UNAVOIDABLY DISPLACED OR DAMAGED DURING THE CONTRACT WORK SHALL BE RESET OR REPLACED IN ACCORDANCE WITH SECTION 107.10 OF THE GENERAL PROVISIONS AND PAID FOR AT THE PER EACH CONTRACT UNIT PRICE BID FOR “ITEM 623 – RIGHT OF WAY MONUMENT”; ALL AT THE DETERMINATION/DIRECTION OF THE ENGINEER.

EXISTING CLEVELAND REGIONAL GEODETIC SURVEY (CRGS) MONUMENT ASSEMBLIES AS DESCRIBED/SHOWN ON THE PLANS ARE TO BE PROTECTED AND PRESERVED. WHERE NECESSARY AND DESIGNATED ON THE PLANS, CAREFULLY ADJUST THE EXISTING MONUMENT BOX OR SET A NEW MONUMENT BOX TO GRADE WITHOUT DISTURBING THE MONUMENT. WHERE CRGS MONUMENT ASSEMBLIES ARE MARKED ON THE PLANS TO BE REMOVED, THE CONTRACTOR SHALL CAREFULLY REMOVE AND STORE THE MONUMENT CASTINGS AND BRONZE CRGS MARKERS FOR SALVAGE BY THE COUNTY. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL GEODETIC SURVEY OFFICE AT (216) 348-3846 SO THAT THE MONUMENT CASTINGS AND BRONZE CRGS MARKERS MAY BE PICKED UP. PAYMENT SHALL BE MADE UNDER ITEM 202 - MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT.

MONUMENTS SHALL BE LEFT UNDISTURBED UNTIL THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS’ SURVEY OFFICE HAS CHECKED/VERIFIED THE REFERENCES PROVIDED BY THE CONTRACTOR’S SURVEYOR. IN ALL CASES THE CONTRACTOR SHALL CONTACT THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS’ SURVEY OFFICE AT (216) 348-3846 NO LESS THAN TWO(2) WEEKS PRIOR TO THE DISTURBANCE OF ANY EXISTING MONUMENTS.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 623 – MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	_____	EACH
ITEM 623 – CUYAHOGA COUNTY MONUMENT BOX	_____	EACH
ITEM 623 – CUYAHOGA COUNTY CENTERLINE MONUMENT BOX ASSEMBLY, TYPE 1	_____	EACH
ITEM 623 – RIGHT OF WAY MONUMENT	_____	EACH
ITEM 202 – MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT	_____	EACH

Designer Note: Use this note for Rehabilitation and/or Resurfacing Projects. Typically add CUY-R04 and CUY-R05 with this plan note. Edit note for items and paragraphs required. Reference MB-1C on Title Sheet.

CUY – R03

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN (10/31/2013)

WHEN THE ABOVE ITEM IS CALLED FOR ON THE PLANS OR IN THE PROPOSAL, ALL APPLICABLE PROVISIONS OF ITEM 623 AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY, EXCEPT AS MODIFIED OR APPENDED HEREIN.

THE COUNTY WILL LOCATE AND REFERENCE THE CENTERLINE OF RIGHT-OF-WAY FOR THE PROJECT AND VERIFY ALL CENTERLINE SURVEY MONUMENT REFERENCES SHOWN IN THE PLAN OR OTHERWISE PROVIDED BY THE CONTRACTOR.

IN ADDITION TO HIS/HER RESPONSIBILITIES UNDER SECTION 107.10, THE CONTRACTOR SHALL LOCATE AND REFERENCE THE CENTERLINE OF CONSTRUCTION FOR THE PROJECT, IF DIFFERENT FROM THE CENTERLINE OF RIGHT-OR-WAY, LOCATE THE CENTERLINE OF RIGHT-OF-WAY AND/OR CONSTRUCTION FOR ALL INTERSECTING STREETS AND ROADS, ESTABLISH ALL NECESSARY BENCH MARKS, AND PROVIDE FIELD FORCES TO SET ALL STAKES, MARK (PAINT) OR STAKE THE PROJECT STATION NUMBERS AT INTERVALS OF 50 FEET (OR LESS AS DIRECTED OR APPROVED BY THE ENGINEER), AND SET ALL HORIZONTAL/VERTICAL CONTROLS FOR THE PROJECT; ALL AS NECESSARY TO SECURE A CORRECT LAYOUT OF THE WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY SURVEY INFORMATION APPEARING IN THE PLANS, EXCEPT FOR THE PROJECT CENTERLINE OF RIGHT-OF-WAY, WHICH HE/SHE MAY USE TO LAYOUT THE WORK.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID FOR ITEM 623 – CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN.

Designer Note: Use this version of Item 623, As Per Plan for select projects where the Cuyahoga County Department of Public Works' Survey Office will do the work specified in the second paragraph. Edit note as necessary to fit specified project. Check with the Cuyahoga County Department of Public Works' Survey Office regarding the appropriate use of this note.

CUY-R04

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN (10/31/2013)

623.08 CONSTRUCTION LAYOUT STAKING.

1. ALL HORIZONTAL CONTROL AND, IF NECESSARY, VERTICAL CONTROL REQUIRED FOR THE COMPLETE LAYOUT AND PERFORMANCE OF THE WORK UNDER THIS CONTRACT SHALL BE DONE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND MAY BE PERIODICALLY REVIEWED BY THE ENGINEER. ANY INSPECTION OR REVIEWING OF THE CONTRACTOR'S LAYOUT BY THE ENGINEER AND THE ACCEPTANCE OF ALL OR ANY PART OF IT SHALL NOT RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITY TO PRODUCE THE PROPER WORK DIMENSIONS, GRADES AND ELEVATIONS. THE REQUIREMENTS OF SECTION 107.10 OF THE GENERAL PROVISIONS ALSO APPLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND, IF APPLICABLE, ALL GRADES, LINES AND LEVELS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS, AND HE/SHE SHALL REPORT ANY ERRORS OR INCONSISTENCIES IN THE ABOVE TO THE ENGINEER BEFORE COMMENCING WORK OR ORDERING ANY MATERIAL.
3. THE CONTRACTOR SHALL MARK (PAINT) OR STAKE THE PROJECT STATION NUMBERS AT INTERVALS OF 50 FEET (OR LESS AS DIRECTED OR APPROVED BY THE ENGINEER) BEFORE COMMENCING THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL STAKES AND MARKS AND SHALL REPLACE THEM AT HIS/HER EXPENSE IF THEY ARE DAMAGED, LOST, DISPLACED OR REMOVED. THE CONTRACTOR SHALL USE COMPETENT PERSONNEL AND SUITABLE EQUIPMENT FOR THE LAYOUT WORK REQUIRED AND SHALL PROVIDE THAT IT IS DONE UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

623.11 BASIS OF PAYMENT.

PAYMENT WILL BE MADE UNDER:

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN (LUMP SUM)

Designer Note: For most projects, typically use this version of Item 623, As Per Plan which requires the Contractor to do all necessary layout. Edit note as necessary to fit specific project. Check with the Cuyahoga County Department of Public Works' Survey Office regarding the appropriate use of this note.

CUY -R07

ITEM SPECIAL - MAILBOX SUPPORT SYSTEM (10/31/2013)

PRIOR TO THE COMMENCEMENT OF THE WORK THE ENGINEER SHALL DETERMINE WHICH EXISTING MAILBOX AND SUPPORT SYSTEMS WILL REQUIRE TEMPORARY RELOCATION AS A RESULT OF THE WORK.

WHEN THE ENGINEER DETERMINES THAT AN EXISTING MAILBOX AND/OR SUPPORT SYSTEM REQUIRING TEMPORARY RELOCATION PER 107.10 IS A POTENTIAL SAFETY HAZARD OR CANNOT REASONABLY BE TEMPORARILY RELOCATED, THE ENGINEER SHALL DIRECT THE CONTRACTOR TO INSTALL A NEW MAILBOX AND/OR SUPPORT SYSTEM IN A TEMPORARY LOCATION AND TO SUBSEQUENTLY REMOVE AND DISPOSE OF THE EXISTING MAILBOX AND/OR SUPPORT SYSTEM. AT LEAST TWO (2) WEEKS IN ADVANCE OF THE REMOVAL, THE ENGINEER SHALL GIVE WRITTEN NOTICE TO THE OWNER OF THE OWNER'S OPTION TO REMOVE THE EXISTING MAILBOX AND/OR SUPPORT SYSTEM FOR SALVAGE OR TO PROVIDE A NEW MAILBOX IF HE/SHE SO CHOOSES.

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK AT THE DISCRETION OF THE ENGINEER:

ITEM SPECIAL - MAILBOX SUPPORT SYSTEM, SINGLE	_____	EACH
ITEM SPECIAL - MAILBOX SUPPORT SYSTEM, DOUBLE	_____	EACH
ITEM SPECIAL - MAILBOX	_____	EACH

PAYMENT FOR A MAILBOX SUPPORT SYSTEM SHALL INCLUDE ALL WORK AND MATERIALS NECESSARY TO ATTACH THE CONTRACTOR OR OWNER SUPPLIED MAILBOX AND FOR ERECTING THE MAILBOX SUPPORT SYSTEM IN ITS TEMPORARY LOCATION AND SUBSEQUENTLY RE-ERECTING THE MAILBOX AND SUPPORT SYSTEM IN ITS PERMANENT LOCATION; ALL TO THE SATISFACTION OF THE ENGINEER.

CONTRACTOR SUPPLIED MAILBOXES AND MAILBOX SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MD-7C.

PRIOR TO THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL CONTACT THE LOCAL POSTMASTER REGARDING THE SPECIFIC MAIL DELIVERY/MAILBOX RELOCATION REQUIREMENTS FOR THE PROJECT AND BE PREPARED TO DISCUSS THEIR IMPLEMENTATION AT THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POSTMASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PER 107.10, NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR REMOVING, TEMPORARILY RELOCATING OR PERMANENTLY RE-ERECTING EXISTING MAILBOXES AND MAILBOX SUPPORT SYSTEMS

Designer Note: County Version of L&D Manual Note R118. Reference MD-7C on the Title Sheet.

CUY-R08

LOCATION OF GUARDRAIL (01/04/1999)

THE LOCATION OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, IS SUBJECT TO ADJUSTMENT BY THE ENGINEER TO ASSURE THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

Designer Note: Include note on all County projects involving guardrail work. Also include ODOT L&D Manual Note R111 "Connection Between Existing and Proposed Guardrail" if applicable.

CUY-R09

ITEM 202 - BRICK BASE COURSE REMOVED, AS PER PLAN (01/04/1999)

BRICK BASE COURSE REMOVAL SHALL CONSIST OF THE REMOVAL OF ANY BITUMINOUS MATERIAL ABOVE THE BRICK, THE BRICK BASE COURSE AND THE CUSHION COURSE TO THE TOP OF THE CONCRETE BASE.

PAYMENT FOR THIS WORK IS INCLUDED IN ITEM 202 - BRICK BASE COURSE REMOVED, AS PER PLAN.

Designer Note: For use on rehab projects involving existing brick base course removal.

CUY-R10

INTEGRAL CONCRETE CURB REMOVED (03/06/2009)

INTEGRAL CONCRETE CURB REMOVED IN CONJUNCTION WITH CONCRETE BASE AND/OR PAVEMENT REMOVAL (ITEM 202) SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM 202 BASE AND/OR PAVEMENT REMOVAL.

Designer Note: For use on projects involving existing integral concrete curbed pavement removal which is performed and paid for under Item 202.

CUY-R11

INTEGRAL CONCRETE CURB REMOVED AND REPLACED (10/31/2013)

WHERE DESIGNATED BY THE ENGINEER, DEFECTIVE INTEGRAL CONCRETE CURB SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE.

DEFECTIVE CURB SHALL BE REMOVED FLUSH WITH THE TOP OF THE EXISTING CONCRETE PAVEMENT (GUTTER) BY GRINDING, PLANING, CHIPPING OR OTHER APPROVED METHODS PROVIDING RESULTS SATISFACTORY TO THE ENGINEER. THE CURB AREA SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, INCLUDING LOOSE SPALLS CAUSED BY THE REMOVAL OPERATION. THE FULL COST OF REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR ITEM 202 - CURB REMOVED, AS PER PLAN. THE NEW CONCRETE CURB SHALL BE CONNECTED TO THE PAVEMENT WITH NO. 5 TIE BARS VERTICALLY PLACED IN GROUTED DOWEL HOLES AT 12" CENTERS, 3" FROM THE PAVEMENT EDGE / BACK OF CURB. INSTALLATION OF THE TIE BARS SHALL BE IN ACCORDANCE WITH ITEM 510 DOWEL HOLES WITH NON-SHRINK, NON-METALLIC ANCHORING MATERIAL AND PER THE INTEGRAL CONCRETE CURB REPLACEMENT DETAIL, METHOD "A", SHOWN ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MD-1C. NON-SHRINK, NON-METALLIC ANCHORING MATERIAL SHALL MEET THE REQUIREMENTS OF 705.20. AFTER THE TIE BARS ARE SET IN PLACE, THE PREPARED SURFACE AREA WHERE THE CONCRETE CURB IS TO BE PLACED SHALL RECEIVE AN APPLICATION OF EPOXY ADHESIVE CONFORMING TO AASHTO DESIGNATION M 235, TYPE V IMMEDIATELY PRIOR TO PLACING THE CURB. EXISTING JOINTS IN THE PAVEMENT SHALL EXTEND THROUGH THE NEW CURB. THE FULL COST OF THE DOWEL HOLES, TIE BARS, NON-SHRINK/NON METALLIC ANCHORING MATERIAL AND EPOXY SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 609 - CURB, TYPE ____, AS PER PLAN.

THE "CLASS QC MISC OR QC 1" CONCRETE USED FOR THE CURB (609) SHALL CONFORM TO THE "MODIFICATIONS TO ITEM 499 CONCRETE - GENERAL" AS CONTAINED IN THE "SECTION 400 PROPOSAL NOTES" OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET."

PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER FOOT FOR THE ACTUALLY COMPLETED AND ACCEPTED QUANTITIES OF ITEM 202 - CURB REMOVED, AS PER PLAN AND ITEM 609 - CURB, TYPE ____, AS PER PLAN. QUANTITIES FOR THE ABOVE ARE ESTIMATED/CALCULATED ON SHEET NO. ____ AND CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

- OR -

THE FOLLOWING ESTIMATED QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 202 - CURB REMOVED, AS PER PLAN ____ FT.
ITEM 609 - CURB, TYPE ____, AS PER PLAN ____ FT.

Designer Note: This note and method of integral concrete curb replacement is intended for use at locations where the adjoining pavement does not require replacement and it's use is subject to municipal approval. The designer should edit note to reflect where the quantities for the specific items are generated and use appropriate paragraphs. Reference MD-1C on the Title Sheet.

CUY-R12

NON-INTEGRAL CURB REMOVED AND REPLACED (10/31/2013)

DEFECTIVE, BROKEN OR OUT-OF-LINE SECTIONS OF NON-INTEGRAL CURB SHALL BE REMOVED AND REPLACED WITH CONCRETE CURB. THE COST OF REMOVING NON-INTEGRAL CURB SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER FOOT FOR ITEM 202 - CURB REMOVED.

NON-INTEGRAL CURB SHALL BE REMOVED AND DISPOSED OF PER 202.05 IN A MANNER AND BY METHODS THAT WILL NOT DISTURB, DAMAGE OR UNDERMINE ADJACENT PAVEMENT, WALK, DRIVE APRONS OR CURB INTENDED TO REMAIN IN PLACE. ANY ADJACENT FACILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AND WHICH ARE NOT OTHERWISE DESIGNATED FOR REPLACEMENT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE; ALL AT THE DIRECTION OF THE ENGINEER.

THE "CLASS QC MISC OR QC 1" CONCRETE USED FOR THE CURB (609) SHALL CONFORM TO THE "MODIFICATIONS TO ITEM 499 CONCRETE - GENERAL" AS CONTAINED IN THE "SECTION 400 PROPOSAL NOTES" OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET."

IN LIEU OF INSTALLING EXPANSION JOINT MATERIAL PER BP-5.1, THOROUGHLY SEAL (705.04) THE ABUTTING JOINT WHEN CURB IS PLACED ADJACENT TO EXISTING PAVEMENT.

PAYMENT FOR NON-INTEGRAL CURB REMOVAL SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER FOOT FOR ITEM 202-CURB REMOVED. PAYMENT FOR THE NEW CONCRETE CURB SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER FOOT FOR ITEM 609 - CURB, TYPE 6, AS PER PLAN.

QUANTITIES FOR THE ABOVE ARE ESTIMATED/CALCULATED ON SHEET NO. _____ AND CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

-OR-

THE FOLLOWING ESTIMATED QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 202 - CURB REMOVED _____ FT.
ITEM 609 - CURB, TYPE 6, AS PER PLAN _____ FT.

Designer Note: This note is intended for use on projects where partial non-integral curb replacement is proposed. The designer should edit note to reflect where quantities for specific items are generated and use appropriate paragraph.

CUY-R13

NON-INTEGRAL CURB REMOVED (09/29/2003)

EXISTING NON-INTEGRAL CURB SHALL BE REMOVED AND DISPOSED OF PER 202.05 IN A MANNER AND BY METHODS THAT WILL NOT DISTURB, DAMAGE OR UNDERMINE ADJACENT PAVEMENT, WALK, DRIVE APRONS OR CURB INTENDED TO REMAIN IN PLACE. ANY ADJACENT FACILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AND WHICH ARE NOT OTHERWISE DESIGNATED FOR REPLACEMENT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE; ALL AT THE DIRECTION OF THE ENGINEER.

PAYMENT FOR NON-INTEGRAL CURB REMOVAL SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER FOOT FOR ITEM 202-CURB REMOVED.

Designer Note: Use this note on all projects requiring non-integral curb removal (Item 202) unless CUY-R12 is used instead.

CUY-R14

EXISTING WALK REMOVAL/REPLACEMENT (07/07/2011)

APPROXIMATE LOCATIONS FOR THE REQUIRED REMOVAL/REPLACEMENT OF EXISTING WALK ARE AS SHOWN ON THE PLAN. WALK REMOVAL / REPLACEMENT LIMITS SHALL TYPICALLY EXTEND TO THE NEAREST EXISTING WALK JOINT/DIVISION LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE EXACT LOCATIONS AND LIMITS OF EXISTING WALK REMOVAL / REPLACEMENT SHALL BE ESTABLISHED AND DESIGNATED BY THE ENGINEER. AEROSOL SPRAY PAINT FOR OUTLINING SHALL BE PROVIDED BY THE CONTRACTOR.

EXISTING WALK SHALL BE REMOVED AND DISPOSED OF PER 202.05 AND IN A MANNER THAT WILL NOT DISTURB, DAMAGE OR UNDERMINE ADJACENT WALK, CURB, DRIVES OR DRIVE APRONS INTENDED TO REMAIN IN PLACE. ANY ADJACENT FACILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AND WHICH ARE NOT OTHERWISE DESIGNATED FOR REPLACEMENT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE; ALL AT THE DIRECTION OF THE ENGINEER.

REPLACEMENT WALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "ITEM 608 - 4" CONCRETE WALK, AS PER PLAN" (SEE PLAN NOTE).

WHERE REQUIRED TO FACILITATE CURB RAMP CONSTRUCTION THROUGH EXISTING CURB, THE FOLLOWING METHODS SHALL BE EMPLOYED IN LIEU OF THE BP-7.1 "SECTION A-A EXISTING WALK DETAIL":

EXISTING NON-INTEGRAL CONCRETE CURB SHALL BE COMPLETELY REMOVED (ITEM 202 – CURB REMOVED) AND REPLACED (ITEM 609 – CURB, TYPE 6, AS PER PLAN) TO THE LIMITS SPECIFIED BY THE ENGINEER. NON-INTEGRAL CURB SHALL BE REMOVED AND DISPOSED OF PER 202.05 IN A MANNER AND BY METHODS THAT WILL NOT DISTURB, DAMAGE OR UNDERMINE THE ADJACENT PAVEMENT INTENDED TO REMAIN IN PLACE.

EXISTING INTEGRAL CONCRETE CURB SHALL BE COMPLETELY REMOVED AND REPLACED IN ACCORDANCE WITH THE "ITEM 255 – FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT CLASS _____, AS PER PLAN" NOTE; THE "INTEGRAL CONCRETE CURB REPLACEMENT DETAIL, METHOD B" AS SHOWN ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MD-1C; AND TO THE LIMITS SPECIFIED BY THE ENGINEER. INTEGRAL CONCRETE CURB REMOVAL IS CONSIDERED INCIDENTAL TO THE ITEM 255 PAVEMENT REMOVAL AND NO SEPARATE PAYMENT WILL BE MADE. REPLACEMENT CURB SHALL BE MEASURED AND PAID FOR UNDER ITEM 609 – CURB, TYPE _____, AS PER PLAN. THE PAY ITEMS/QUANTITIES ASSOCIATED WITH THE INTEGRAL CONCRETE CURB REMOVAL/REPLACEMENT ARE INCLUDED IN THE "ITEM 255 – FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS _____, AS PER PLAN" NOTE ON SHEET _____.

PROVIDE 1/2 INCH THICK EXPANSION JOINT MATERIAL (705.03) BETWEEN THE NEWLY INSTALLED CURB AND CURB RAMP WALK PER 608.03. CURB RAMP LOCATIONS AS SHOWN IN THE PLANS ARE SUBJECT TO ADJUSTMENT TO MINIMIZE CONFLICTS WITH EXISTING CATCH BASINS, MANHOLES, UTILITY POLES, HYDRANTS OR OTHER SUCH APPURTENANCES. ALSO SEE THE "ITEM 608 – CURB RAMP, TYPE ___, AS PER PLAN" NOTE.

PLAN QUANTITIES FOR THE ABOVE WORK ARE TABULATED ON SHEET(S) _____ AND CARRIED TO THE GENERAL SUMMARY.

PAYMENT FOR THE ACTUALLY COMPLETED AND ACCEPTED QUANTITIES OF THE ABOVE WORK SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR:

ITEM 202 - WALK REMOVED	SQ. FT.
ITEM 202 - CURB REMOVED	FT.
ITEM 608 - 4" CONCRETE WALK, AS PER PLAN	SQ. FT.
ITEM 608 - CURB RAMP, TYPE ___, AS PER PLAN	EACH
ITEM 609 – CURB, TYPE 6, AS PER PLAN	FT.

THE LIMITS OF ADDITIONAL CONTINGENCY WALK REMOVAL/REPLACEMENT REQUIRED TO FACILITATE ADJACENT CURB, UNDERDRAIN, CURB RAMP, DRIVE OR DRIVE APRON WORK NOT OTHERWISE SHOWN ON THE PLANS SHALL BE DESIGNATED BY THE ENGINEER. AREAS OF WALK REMOVED / REPLACED TO FACILITATE CURB AND/OR UNDERDRAIN WORK SHALL NOT GENERALLY EXCEED TWO (2) FEET BEYOND THE BACK OF CURB. THIS WORK SHALL INCLUDE THE COST OF ANY SAW CUTS AND PRE-MOLDED JOINT FILLER REQUIRED BY THE ENGINEER TO COMPLETE THIS WORK.

THE FOLLOWING CONTINGENCY QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER AND ARE IN ADDITION TO THE PLAN QUANTITIES TABULATED ON SHEET(S) _____:

ITEM 202 - WALK REMOVED	_____ SQ. FT.
ITEM 202 – CURB REMOVED, AS PER PLAN	_____ FT.
ITEM 608 - 4" CONCRETE WALK, AS PER PLAN	_____ SQ. FT.
ITEM 609 – CURB, TYPE 6, AS PER PLAN	_____ FT.

Designer Note: Use this note when partial and/or contingency sidewalk replacements are required. If curb replacements are performed/quantified/paid for separately, delete curb references and associated pay items from plan note. Add CUY-P05 plan note for existing integral concrete curb removal/replacement. Add CUY-R17 and CUY-R18 plan notes for walk and curb ramps. Edit note for specific work/items/quantities required. Separately list Type (A1, A2, B1, B2, B3, C1 or C2) curb ramp items in plan note and General Summary.

CUY-R15

EXISTING DRIVE AND/OR DRIVE APRON REMOVAL/REPLACEMENT (10/31/2013)

THE PROPOSED LOCATIONS AND LIMITS OF DRIVE AND/OR DRIVE APRON REMOVALS/REPLACEMENTS ARE AS SHOWN ON THE PLANS WITH THE ASSOCIATED PLAN QUANTITIES TABULATED ON SHEET(S) _____ AND CARRIED TO THE GENERAL SUMMARY.

THE LIMITS OF ADDITIONAL CONTINGENCY DRIVE AND/OR DRIVE APRON REMOVALS/REPLACEMENTS REQUIRED TO FACILITATE ADJACENT PAVEMENT, CURB, UNDERDRAIN OR SIDEWALK WORK NOT OTHERWISE SHOWN ON THE PLANS SHALL BE AS DIRECTED BY THE ENGINEER. CONTINGENCY QUANTITIES ARE PROVIDED HEREIN FOR REPAIRS TO ABUTTING DRIVE APRONS, DRIVES AND PARKING LOT AREAS UNAVOIDABLY DAMAGED, AS DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE DESIGNATED PORTIONS OF EXISTING DRIVES AND/OR DRIVE APRONS PER 202.05 OR 203.04(E), AS APPLICABLE, AND BY METHODS THAT WILL NOT DISTURB, DAMAGE OR UNDERMINE THE ADJACENT PAVEMENT, CURB, SIDEWALK OR THE PORTIONS OF EXISTING DRIVES/DRIVE APRONS INTENDED TO REMAIN IN PLACE. ANY ADJACENT FACILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AND WHICH ARE NOT OTHERWISE DESIGNATED FOR REPLACEMENT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, ALL AT THE DIRECTION OF THE ENGINEER.

EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER, THE CONFIGURATIONS OF COMPLETELY REPLACED DRIVE APRONS SHALL CONFORM TO THE TYPICAL DRIVE/DRIVE APRON DETAILS ON SHEET _____ AND THE CORRELATING DRIVE TABLE DIMENSIONS ON SHEET(S) _____. THE DRIVE/DRIVE APRON COMPOSITIONS SHALL MINIMALLY CONFORM TO THE DETAILS SHOWN ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING BP-4.1C.

CONFIGURATIONS AND COMPOSITIONS OF PARTIALLY REPLACED DRIVES/DRIVE APRONS SHALL GENERALLY MATCH THE EXISTING, AS DIRECTED BY THE ENGINEER.

THE "CLASS QC MS" CONCRETE USED FOR THE ITEM 451 OR 452 CONCRETE DRIVES SHALL CONFORM TO THE "MODIFICATIONS TO ITEM 499 CONCRETE – GENERAL" AS CONTAINED IN THE "SECTION 400 PROPOSAL NOTES" OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET".

THE CONTRACTOR SHALL STAGE HIS/HER OPERATIONS SUCH THAT THE MAXIMUM OUT OF SERVICE TIME FOR ANY RESIDENTIAL DRIVE IS _____ () DAYS. THE CONTRACTOR SHALL NOTIFY EACH RESIDENT OF ANY RESTRICTED ACCESS TO THEIR PROPERTY NO LATER THAN ONE (1) WEEK IN ADVANCE. ACCESS TO COMMERCIAL AND HANDICAP PROPERTY SHALL BE MAINTAINED AT ALL TIMES.

THE FOLLOWING CONTINGENCY QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER AND ARE IN ADDITION TO THE PLAN QUANTITIES TABULATED ON SHEET(S) _____:

ITEM 202 - PAVEMENT REMOVED	_____ SQ.YD.
ITEM 203 - EXCAVATION	_____ CU.YD.
ITEM 204 - SUBGRADE COMPACTION	_____ SQ. YD.
ITEM 301 - ASPHALT CONCRETE BASE, PG 64-22 (DRIVEWAYS), AS PER PLAN	_____ CU.YD.
ITEM 304 - AGGREGATE BASE, AS PER PLAN	_____ CU.YD.
ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 (DRIVEWAYS), AS PER PLAN	_____ CU.YD.
ITEM 408 - PRIME COAT	_____ GAL.
ITEM 451 - 8" REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	_____ SQ.YD.
ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	_____ SQ.YD.

Designer Note: This note is intended for use on projects where the requirement for drive/drive apron work is likely. The designer should determine which items are required. If there are known locations of drive work required due to curb removal, underdrain replacement, etc., the limits of drive work should be clearly shown and separately tabulated elsewhere on the plans. Edit note accordingly. The maximum out of service time for residential drives typically ranges from seven (7) days to twenty-eight (28) days depending on the overall project requirements and sequence of operations. When specifying more than fourteen (14) days, the use of "Class QC MS Concrete" is not necessarily required and may be deleted from the 451 and 452 drive item descriptions. Reference BP-4.1C on the Title Sheet. Add "CUY-M18, Construction Adjacent to Drives" note to plans when using this note.

CUY-R16

ADDITIONAL SOIL INFORMATION (07/07/2011)

THE SOIL PROFILE AND/OR STRUCTURE FOUNDATION INVESTIGATION SHEETS CONTAIN ALL AVAILABLE SOIL AND BEDROCK INFORMATION, WHICH CAN BE CONVENIENTLY SHOWN. ADDITIONAL SUBSURFACE INVESTIGATION INFORMATION, IF ANY, MAY BE OBTAINED FROM THE (BRIDGE DESIGN/HIGHWAY DESIGN/CONSTRUCTION) OFFICE OF THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS.

Designer Note: All soil information obtained for a project should normally be provided with the plans or otherwise contained in the bid package. Use this note ONLY when some portion of the information is not provided. The note should be located on the first soil profile sheet or first foundation investigation sheet. In the event that soils sheets do not accompany the plan, the note should be placed with the General Notes. The designer must verify that said information will be available at said location. Edit note as necessary to indicate where information is available. CUY-R16 is County version of ODOT L&D Manual Note G 114.

CUY-R17

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN (10/31/2013)

IN ADDITION TO THE REQUIREMENTS OF 608, THE FOLLOWING SHALL APPLY:

THE "CLASS QC MISC." OR "CLASS QC 1" CONCRETE USED FOR SIDEWALK (608) SHALL CONFORM TO THE "MODIFICATIONS TO ITEM 499 CONCRETE - GENERAL" AS CONTAINED IN THE "SECTION 400 PROPOSAL NOTES" OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET".

ALL CONCRETE WALK SHALL BE A MINIMUM OF 4" THICK AND HAVE A 2" COMPACTED SCREENINGS BED WHICH MEETS THE REQUIREMENTS OF 703.10 (LIMITED TO CRUSHED STONE). WHERE THE WALK CROSSES A FLEXIBLE DRIVEWAY, THE THICKNESS SHALL BE INCREASED PER THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING BP-4.1C. THE COST FOR FURNISHING AND PLACING THE 2" COMPACTED SCREENINGS BED AND FOR THE THICKENING AT FLEXIBLE DRIVES PER THE BP-4.1C CONSTRUCTION DRAWING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN.

PER 608.03(C), IT IS REQUIRED THAT 1/2 INCH THICK EXPANSION JOINT MATERIAL (705.03) BE INSTALLED BETWEEN THE WALK AND THE BACK OF CURB OR ANY OTHER FIXED OBJECT. IN ADDITION TO THE LOCATIONS SPECIFIED UNDER 608.03(C), TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE EXPANSION JOINT FILLER (705.03) SHALL BE PLACED AT THE TRANSVERSE EXPANSION JOINTS FOR THE FULL DEPTH/WIDTH OF THE CONCRETE WALK AND SHALL BE TRULY NORMAL TO GRADE. THE TOP 1/2 INCH OF THE EXPANSION JOINT PLACED BETWEEN THE WALK AND BACK OF CURB SHALL BE SEALED WITH 705.04 JOINT SEALER.

UNLESS OTHERWISE REQUIRED BY MUNICIPAL STANDARDS/ORDINANCES, THE FINAL SURFACE SHALL BE TEXTURED BY USE OF AN ACCEPTED BROOM SO AS TO PRODUCE A UNIFORM, GRITTY, TRANSVERSE TEXTURE. AFTER WHICH, THE CONTRACTOR IS REQUIRED TO RETRACE THE PREVIOUSLY FORMED JOINTS AND OUTSIDE EDGES OF THE WALK.

FINAL FINISH SHALL BE IN ACCORDANCE WITH THE APPLICABLE MUNICIPAL STANDARDS/ORDINANCES.

THE COST OF THE MATERIAL AND LABOR ASSOCIATED WITH THE ABOVE WORK IS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN.

Designer Note: For use on all County projects involving sidewalk work. Reference BP-4.1C on the Title Sheet when applicable. Delete references to thickening sidewalk at flexible drives when inapplicable.

CUY-R18

ITEM 608 – CURB RAMP, (BY TYPE), AS PER PLAN (10/31/2013)

ALL APPLICABLE PROVISIONS OF ITEM 608 SHALL APPLY EXCEPT AS MODIFIED HEREIN.

608.01 DESCRIPTION.

THIS WORK SHALL CONSIST OF CONSTRUCTING AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT CURB RAMPS IN ACCORDANCE WITH ODOT'S STANDARD CONSTRUCTION DRAWING BP-7.1 (EXCEPT AS MODIFIED HEREIN) AT THE LOCATIONS SHOWN ON THE PLANS OR AT LOCATIONS DETERMINED BY THE ENGINEER.

608.02 MATERIALS.

THE "CLASS QC MISC." OR "CLASS QC 1" CONCRETE USED FOR SIDEWALK (608) SHALL CONFORM TO THE "MODIFICATIONS TO ITEM 499 CONCRETE – GENERAL" AS CONTAINED IN THE "SECTION 400 PROPOSAL NOTES" OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET".

IN ADDITION TO THE ODOT APPROVED DETECTABLE WARNING PRODUCTS AND INSTALLATION REQUIREMENTS, THE DETECTABLE WARNINGS MATERIAL(S)/PRODUCT(S) SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND BE PRE-APPROVED BY (EACH OF) THE INVOLVED CITY (CITIES)/VILLAGE (VILLAGES).

608.07 CURB RAMPS.

(THE ENGINEER WILL) -OR- (WHEN THE CURB RAMP LOCATIONS AND/OR DESIGNS ARE NOT DESIGNATED ON THE PLAN, THE ENGINEER SHALL CONSULT WITH THE CITY/VILLAGE, ON THE PROJECT SITE AT THE COMMENCEMENT OF THE WORK, TO) DETERMINE THE EXACT LOCATIONS AND APPROPRIATE CURB RAMP DESIGNS TO BE CONSTRUCTED. EXISTING CURB RAMPS THAT ARE NOT AFFECTED BY THE CONSTRUCTION AND ARE CURRENTLY ADA COMPLIANT NEED NOT BE REPLACED. AT THE COMPLETION OF THE PROJECT ALL CURB RAMPS WITHIN THE PROJECT LIMITS SHALL BE ADA COMPLIANT.

WHERE PHYSICALLY FEASIBLE, AS DETERMINED BY THE ENGINEER, PROVIDE 3:1 FLARED SIDES IN LIEU OF RETURNED CURBS.

THE ENGINEER (AND CITY/VILLAGE) SHALL CAREFULLY CONSIDER POTENTIAL IMPACTS TO UTILITIES AND ADJACENT PROPERTY OWNERS WHEN DETERMINING THE EXACT CURB RAMP LOCATIONS AND DESIGNS.

THICKNESS OF THE CURB RAMP WALK AND CONCRETE BASE BENEATH THE DETECTABLE WARNINGS SHALL BE A MINIMUM OF SIX (6) INCHES. IN ADDITION, A TWO (2) INCH COMPACTED SCREENINGS BED, AS SPECIFIED UNDER "ITEM 608 – 4" CONCRETE WALK, AS PER PLAN", SHALL BE FURNISHED AND PLACED BENEATH ALL CURB RAMP AREAS.

608.09 BASIS OF PAYMENT.

PAYMENT WILL BE MADE UNDER ITEM 608 – CURB RAMP, TYPE ___ (A1, A2, B1, B2, B3, C1 OR C2), AS PER PLAN (EACH).

THE PER EACH PAYMENT FOR CURB RAMPS SHALL ALSO INCLUDE THICKENING THE CONCRETE WALK TO SIX (6) INCHES.

PAYMENT FOR FURNISHING AND PLACING THE TWO (2) INCH COMPACTED SCREENINGS BED IS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN WHICH IS MEASURED THROUGH ALL CURB RAMP AREAS.

PLAN QUANTITIES FOR THE ABOVE ARE TABULATED ON SHEET NO. _____ AND CARRIED TO THE GENERAL SUMMARY.

-OR-

THE FOLLOWING ITEMS/ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK.

ITEM 608 – CURB RAMP, TYPE ____ (A1, A2, B1, B2, B3, C1 OR C2), AS PER PLAN _____ EACH

Designer Note: Edit 608.02 to reflect actual municipal involvement. Edit 608.07 to reflect whether curb ramp locations/designs are or are not shown on the plan. When they are clearly shown on the plans, references to the city/village should be deleted from the 608.07 paragraph. Edit note to reflect specific project conditions/requirements/curb ramp types. Separately list Type (A1, A2, B1, B2, B3, C1 OR C2) curb ramp items/quantities in plans. Edit note to indicate where quantities are generated and use appropriate last paragraph.

CUY-R19

EXISTING UNDERGROUND SPRINKLER SYSTEMS (10/31/2013)

KNOWN LOCATIONS OF EXISTING PRIVATELY OWNED UNDERGROUND SPRINKLER SYSTEMS WITHIN OR NEAR THE PROJECT WORK LIMITS ARE AS INDICATED ON THE PLANS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE PROPERTY OWNERS AND/OR THE RESPECTIVE CITY/VILLAGE AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS OF ANY SPRINKLER SYSTEMS WHICH MAY BE AFFECTED BY HIS/HER WORK.

NO LESS THAN TWO (2) WEEKS PRIOR TO COMMENCING ANY WORK IN THE VICINITY OF THE UNDERGROUND SPRINKLER SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS IN ORDER TO ALLOW THEM SUFFICIENT TIME TO APPROPRIATELY MOVE THEIR SPRINKLER SYSTEMS. AFTER SAID PERIOD, ANY SUCH SPRINKLERS ENCOUNTERED WITHIN THE PROJECT WORK LIMITS SHALL BE REMOVED BY THE CONTRACTOR IF NECESSITATED BY THE PROJECT WORK AND AS PROVIDED FOR UNDER ITEM 203; ALL AS DIRECTED AND/OR APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL SUBSEQUENTLY NOTIFY AFFECTED OWNERS NO LESS THAN TWO (2) WEEKS PRIOR TO THE FINAL TOPSOIL, SOD OR SEED PLACEMENT(S), SO THAT THE OWNERS MAY RESTORE THE SPRINKLER SYSTEMS TO THEIR DESIRED LOCATIONS.

THE CONTRACTOR SHALL COORDINATE / COOPERATE WITH THE AFFECTED OWNERS DURING THE PROSECUTION OF ALL PROXIMATE CONTRACT WORK TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR THE ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED CONTRACT WORK ITEMS.

EXISTING SPRINKLER SYSTEMS SHALL BE RESTORED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE IF, AS DETERMINED BY THE ENGINEER, THEY ARE DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE AND NOT AS A RESULT OF THE REQUIRED PROJECT WORK; ALL AS SPECIFIED AND DIRECTED BY THE ENGINEER.

Designer Note: Use this note for all projects that involve regrading the existing tree lawns where sprinklers may exist.

The designer shall coordinate with the City/Village when ascertaining specific locations of existing sprinkler systems. It is assumed that the owners were issued permits by the City(ies)/Village(s) to install sprinkler systems in tree lawns within the existing right-of-way.

Edit note to reflect any specific City/Village requirements in this regard. The City/Village must be afforded adequate opportunity to provide their input concerning the final version of this note.

Also be sure to show/identify the privately owned underground sprinkler systems on the right-of-way plans. Affected sprinkler systems, outside the existing right-of-way but within the project work limits, are eligible for compensation as part of the negotiated right-of-way settlement.

CUY-R20

UNSUITABLE SUBGRADE MATERIAL (07/07/11)

WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, IT SHALL BE REMOVED TO THE DEPTH DETERMINED BY THE ENGINEER AND REPLACED IN EIGHT (8) INCH MAXIMUM (LOOSE DEPTH) MECHANICALLY COMPACTED LAYERS. SUITABLE EMBANKMENT MATERIAL (204.02) REQUIRED TO REPLACE THE UNDERCUT SUBGRADE SHALL, TO THE EXTENT POSSIBLE, EXHIBIT THE SAME PHYSICAL PROPERTIES AS THE ADJACENT SOUND SUBGRADE MATERIALS. HOWEVER, USE OF SLAG, IN ANY FORM, IS NOT PERMITTED. IN CONJUNCTION WITH THE ABOVE WORK, AN ESTIMATED QUANTITY OF ITEM 204 – GEOTEXTILE FABRIC IS PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

REMOVAL OF UNSUITABLE SUBGRADE SHALL BE PAID UNDER ITEM 204 – EXCAVATION OF SUBGRADE. THE COST OF FURNISHING AND COMPACTING SUITABLE EMBANKMENT MATERIAL IN PLACE SHALL BE PAID FOR UNDER ITEM 204 – EMBANKMENT, AS PER PLAN AND/OR ITEM 204 – GRANULAR EMBANKMENT, AS PER PLAN.

QUANTITIES FOR THE ABOVE ARE CALCULATED ON THE CROSS SECTION SHEETS AND/OR ELSEWHERE IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY.

-OR-

THE FOLLOWING ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER, ARE CARRIED TO THE GENERAL SUMMARY FOR THIS WORK AND PAYMENT IS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR:

ITEM 204 – EXCAVATION OF SUBGRADE	_____ CU. YD.
ITEM 204 – EMBANKMENT, AS PER PLAN	_____ CU. YD.
ITEM 204 - GRANULAR EMBANKMENT, AS PER PLAN	_____ CU. YD.
ITEM 204 – GEOTEXTILE FABRIC	_____ SQ. YD.

Designer Note: Typically use this note for all new pavement installations. The appropriate quantities should be developed from the available soil data and based on the Designer's best judgment. Edit note to reflect where quantities are generated and use appropriate last paragraph. Chemically (Item 206) stabilized subgrades may be considered as an alternative to undercutting in accordance with ODOT's current Geotechnical Bulletin 1 (GB1). Use of geogrids (SS 861) should be considered and may be incorporated into the design of the subgrade undercut/backfill.

CUY-R21

ITEM 203 – EMBANKMENT, AS PER PLAN (06/15/2005)

USE OF SLAG, IN ANY FORM, IS NOT PERMITTED.

Designer Note: Include this note on County projects where Item 203 – Embankment is used.