

MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE APPROVING AGENCIES AND THE CONSULTING ENGINEER.

THE CONTRACTOR SHALL INCLUDE THE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAR FOOT OF PIPE.

SLAG SHALL NOT BE USED FOR BEDDING OR BACKFILL.

STORM SEWER PIPING LESS THAN 12" IN DIAMETER MAY BE EITHER V.C.P., C-700, E.S. PIPE OR ASTM 3034 -SDR 35 P.V.C. PIPE.

STORM SEWER PIPING 12" TO 15" IN DIAMETER SHALL BE R.C.P., C-76, CLASS IV PIPE.

STORM SEWER PIPING 18" IN DIAMETER OR GREATER SHALL BE R.C.P., C-76, CLASS III PIPE.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING PIPE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE, BOTH AS TO LINE AND GRADE, AND ADJUST LINE AND/OR GRADE AS NECESSARY BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEM.

ITEM 202- PAVEMENT REMOVED

THE CONTRACTOR SHALL INCLUDE THE COST OF FULL DEPTH DIAMOND BLADE SAW CUTTING IN THE UNIT BID PRICE FOR ITEM 202 - PAVEMENT REMOVED.

CONTINGENCY ITEMS

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE FOR USE "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

PAVEMENT REPAIR ITEMS

PAVEMENT REPAIR ITEMS HAVE BEEN INCLUDED IN THE PLANS FOR AREAS OF EXISTING PAVEMENT THAT, AS DETERMINED BY THE ENGINEER, NEED TO BE REPLACED PRIOR TO BEGINNING ASPHALT OVERLAY OPERATIONS. THE AREAS TO BE REPAIRED SHALL BE MARKED IN THE FIELD BY THE ENGINEER. THE COST OF FULL DEPTH PAVEMENT SAWING SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ITEMS 251 AND 252.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED AS CONTINGENCY ITEMS FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR 500 S.Y.
- ITEM 252 - FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT 500 S.Y.

ITEM 254 - PAVEMENT PLANING, BITUMINOUS

THE EXISTING PAVEMENT SHALL BE PLANED 1-1/4 INCHES IN DEPTH TO THE LIMITS AS SHOWN ON THE PLAN SHEETS AND MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

PAVEMENT PLANING WORK ZONE LENGTHS SHALL BE KEPT TO AN ABSOLUTE MINIMUM. TRAFFIC SHALL NOT BE EXPOSED TO LONGITUDINAL VERTICAL FACES DURING NON-WORKING HOURS.

TRANSVERSE VERTICAL FACES SHALL BE TEMPORARILY RAMPED A MINIMUM OF TEN (10) FEET IN LENGTH. THE TRAFFIC SHALL BE WARNED WITH AN OW-62 "BUMP" SIGN IN ADVANCE OF THE PLANING AREA, EXCEPT AT STOP CONDITIONS.

THE DIFFERENTIAL BETWEEN EXISTING CASTING ELEVATIONS AND THE SURROUNDING PAVEMENT SHALL NOT BE GREATER THAN ONE AND ONE-HALF (1-1/2) INCH WHEN EXPOSED TO TRAFFIC.

ANY NECESSARY CLEANING ALONG THE EDGE OF PAVEMENT OR EXISTING CURBS, INCLUDING DEBRIS REMOVAL, SHALL BE INCLUDED IN THE COST OF PAVEMENT PLANING.

THE TIME BETWEEN PAVEMENT PLANING OPERATIONS AND PAVEMENT RESURFACING OPERATIONS SHALL BE KEPT TO A MINIMUM AND SHALL IN NO CASE EXCEED TWO (2) WEEKS TO PROTECT THE EXISTING SUBPAVEMENT FROM UNDUJE EXPOSURE.

ITEM 254 - PATCHING PLANED SURFACES

ANY LOOSE OR DISBONDED PAVEMENT REMAINING AFTER PLANING SHALL BE REMOVED DOWN TO SOLID SUBSTRATE AS DIRECTED BY THE ENGINEER AND BE REPAIRED PER ODOT 254.05. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS FOR USE AS A CONTINGENCY ITEM FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 254 - PATCHING PLANED SURFACES 3000 SQ. YDS.

MANHOLES RECONSTRUCTED TO GRADE, AS PER PLAN

THE CONTRACTOR AND THE PROJECT ENGINEER SHALL FIELD CHECK ALL EXISTING MANHOLES LOCATED WITHIN THE PROJECT LIMITS. MANHOLES THAT EXHIBIT SUBSTANTIAL DETERIORATION SHALL, AT THE DIRECTION OF THE ENGINEER, BE RECONSTRUCTED TO GRADE. LIMITS OF RECONSTRUCTION SHALL BE PAID FOR BY THE VERTICAL FOOT; AS DIRECTED BY THE ENGINEER. ADJUSTING RINGS SHALL NOT BE AN ACCEPTABLE MEANS OF ADJUSTING CASTINGS. BRICK USED FOR RECONSTRUCTION SHALL BE CLAY OR SHALE BRICK MEETING THE REQUIREMENTS OF ASTM C32 SEWER BRICK GRADE SM. CONCRETE BRICK OR MASONRY BLOCK SHALL NOT BE USED. THE CONTRACTOR SHALL INCLUDE THE COST OF EXCAVATION, GRANULAR BACKFILL AND PAVEMENT REMOVAL AND REPLACEMENT IN KIND AROUND THE MANHOLES IN THE PRICE BID PER VERTICAL FOOT OF RECONSTRUCTION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED AS CONTINGENCY ITEMS FOR USE AS DIRECTED BY THE ENGINEER, AND ARE IN ADDITION TO THOSE SPECIFICALLY INDICATED IN THE PLANS:

- ITEM 604 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 30 VERT. FT.

MANHOLES ADJUSTED TO GRADE, AS PER PLAN

THIS ITEM IS INTENDED FOR USE WHERE, AS DETERMINED BY THE ENGINEER, MANHOLE CASTINGS NEED TO BE ADJUSTED TO GRADE. ADJUSTMENTS ARE NOT TO EXCEED SIX INCHES (6") VERTICALLY IN EITHER DIRECTION. THE CONTRACTOR SHALL INCLUDE THE COST OF EXCAVATION, GRANULAR BACKFILL AND PAVEMENT REMOVAL AND REPLACEMENT IN KIND WHERE NEEDED AROUND THE MANHOLES IN THE UNIT BID PRICE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED AS CONTINGENCY ITEMS FOR USE AS DIRECTED BY THE ENGINEER AND ARE IN ADDITION TO THOSE SPECIFICALLY INDICATED IN THE PLANS:

- ITEM 604 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN 4 EACH

ITEM SPECIAL - MISCELLANEOUS METAL

DURING THE CONSTRUCTION OF THIS PROJECT, EXISTING CASTINGS MAY, AS DETERMINED BY THE ENGINEER, PROVE TO BE UNSUITABLE. TO PROVIDE FOR THIS CONTINGENCY, AND ESTIMATED QUANTITY OF MISCELLANEOUS METAL HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH, AS APPROVED BY THE ENGINEER, FOR THE PARTICULAR STRUCTURES IN QUESTION.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM SPECIAL - MISCELLANEOUS METAL 5000 LBS.

TRAFFIC SIGNAL LOOP DETECTORS

THE CONTRACTOR SHALL REPLACE THE EXISTING LOOP DETECTORS ON VINE STREET THAT ARE DAMAGED BY THE PAVEMENT PLANING OPERATION. THERE ARE FOUR (4) LOOP DETECTORS IN THE WESTBOUND LANES NEAR THE WILLOWICK DRIVE INTERSECTION. (SEE PAVEMENT MARKING PLANS FOR APPROXIMATE LOCATIONS). THE CONTRACTOR SHALL INSTALL NEW LOOP DETECTORS AT THE SAME LOCATION AND AT APPROXIMATELY THE SAME SIZE AS THE EXISTING LOOP DETECTORS. ADJUSTMENTS TO LOCATIONS AND EXACT SIZES MAY BE REQUIRED BY THE ENGINEER PRIOR TO INSTALLATION AT NO ADDITIONAL COST.

ANY OTHER LOOP DETECTORS NOT SHOWN ON THE PLANS WITHIN THE RESURFACING LIMITS OF THIS PROJECT SHALL NOT BE DISTURBED OR DAMAGED BY ANY PAVING OPERATIONS WITHOUT AUTHORIZATION FROM THE ENGINEER. LOOP DETECTORS DAMAGED WITHOUT AUTHORIZATION OF THE ENGINEER SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNERS.

THE COST TO REPLACE LOOP DETECTORS SHALL INCLUDE THE COST OF SPLICE KITS NECESSARY TO COMPLETE THE LOOP DETECTOR.

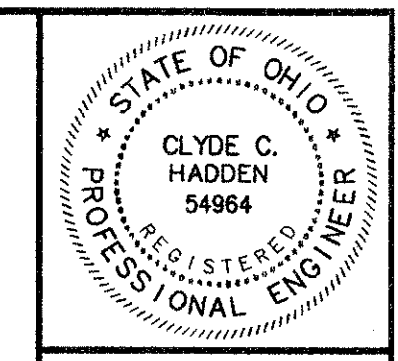
THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE PLANS TO REPLACE LOOP DETECTORS LOCATED WITHIN THE RESURFACING LIMITS ON VINE STREET:

- ITEM 632 - DETECTOR LOOP 4 EACH

ALL LOOP DETECTORS SHALL BE INSTALLED AFTER PAVEMENT PLANING, PRIOR TO THE INSTALLATION OF THE SURFACE COURSE.

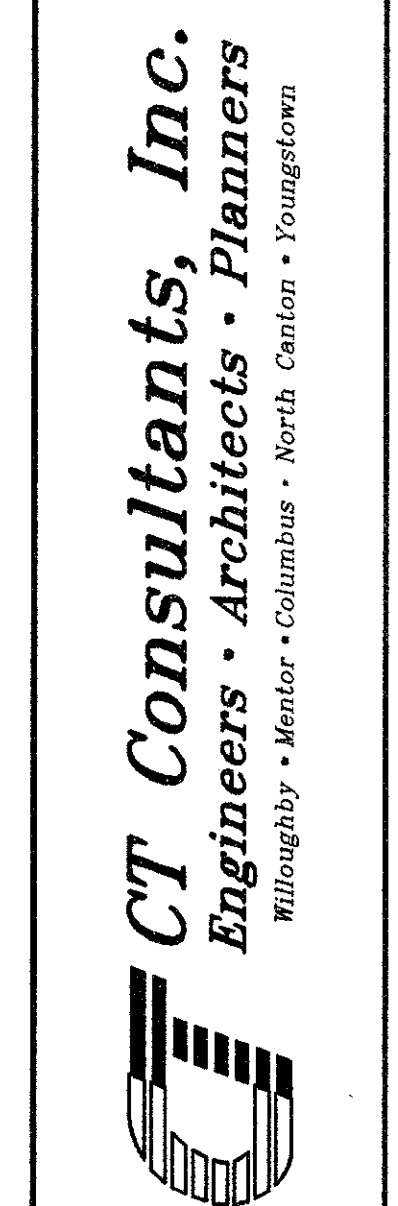
ITEM 203 - LINEAR GRADING, AS PER PLAN

THIS ITEM IS INTENDED FOR USE TO GRADE TREE LAWN AREAS FROM THE BACK OF THE EXISTING OR PROPOSED CURB TO THE EXISTING WALK AND TO GRADE THE AREA FROM THE BACK OF THE PROPOSED WALK TO THE LIMITS AS SHOWN ON THE CROSS-SECTIONS, OR AS DIRECTED BY THE ENGINEER, AND SHALL INCLUDE ALL MINOR EXCAVATION AND EMBANKMENT NECESSARY TO PERFORM SUCH GRADING. THE COST OF REMOVING AND DISPOSING OF ASPHALT AND STONE/GRAVEL AREAS BEHIND THE PROPOSED WALK SHALL ALSO BE INCLUDED IN THIS ITEM. ANY TREES WITHIN OR NEAR THE WORK LIMITS ARE NOT TO BE DISTURBED UNLESS DIRECTED TO DO SO BY THE ENGINEER.



SUBMISSIONS / REVISIONS

**VINE STREET (S.R. 640) ROADWAY
WIDENING IMPROVEMENTS**
 CITIES OF WILLOWICK & EASTLAKE, LAKE COUNTY, OHIO
GENERAL NOTES



DATE:	JANUARY, 2000
DRAWN BY:	J.J.C.
CHECKED BY:	C.C.H.
APPROVED BY:	
SCALE:	
HOR.:	N.T.S.
VERT.:	
CONTRACT NO.:	
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SHEET NO.:	OF
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