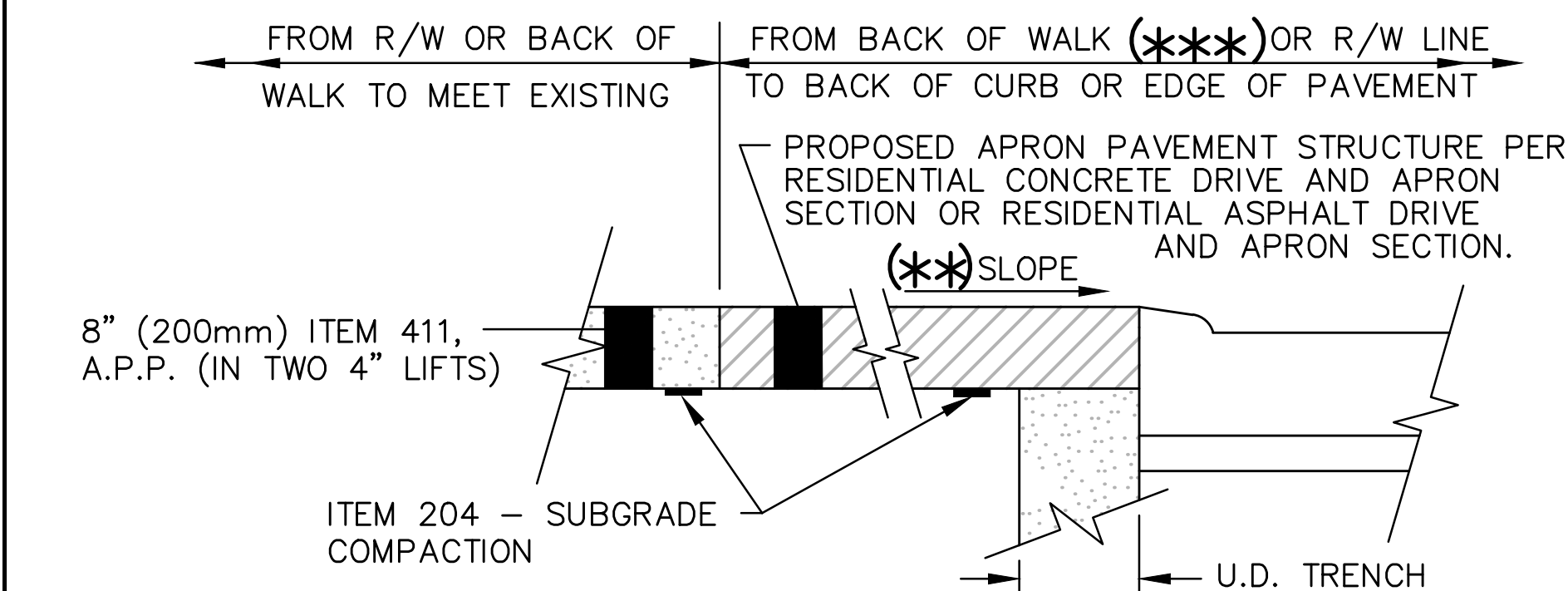
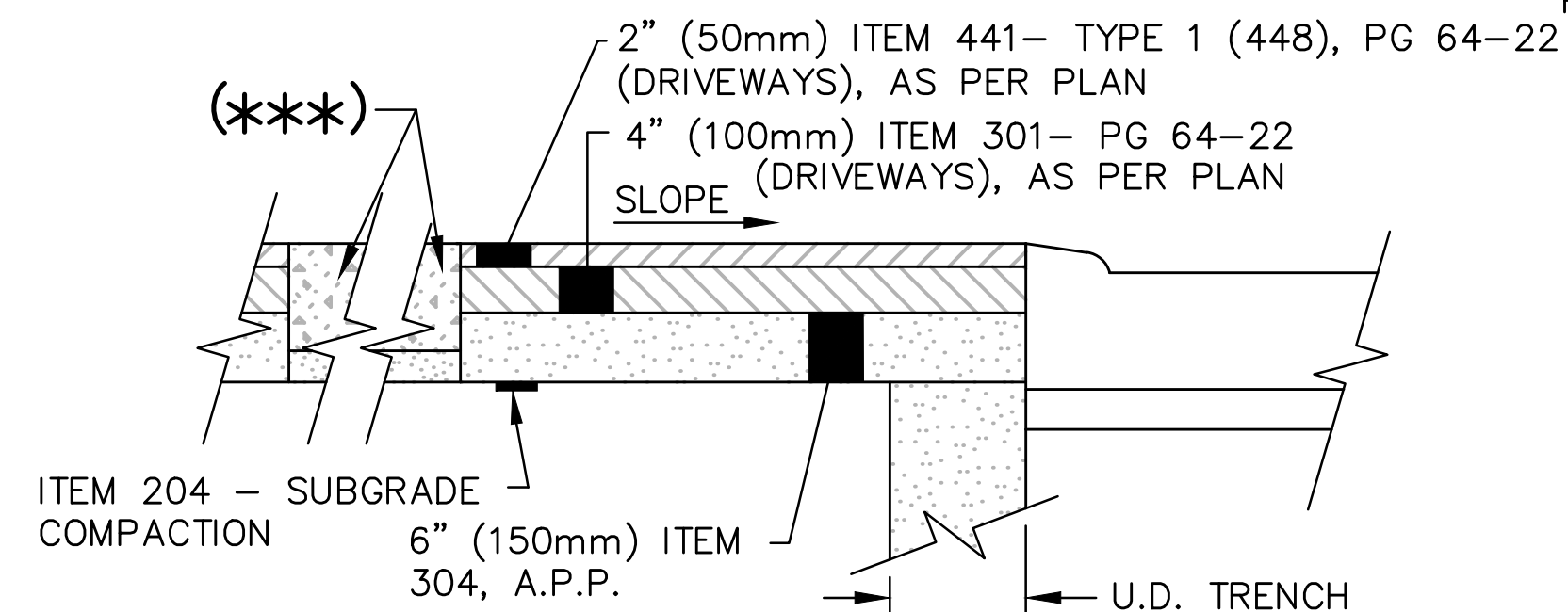


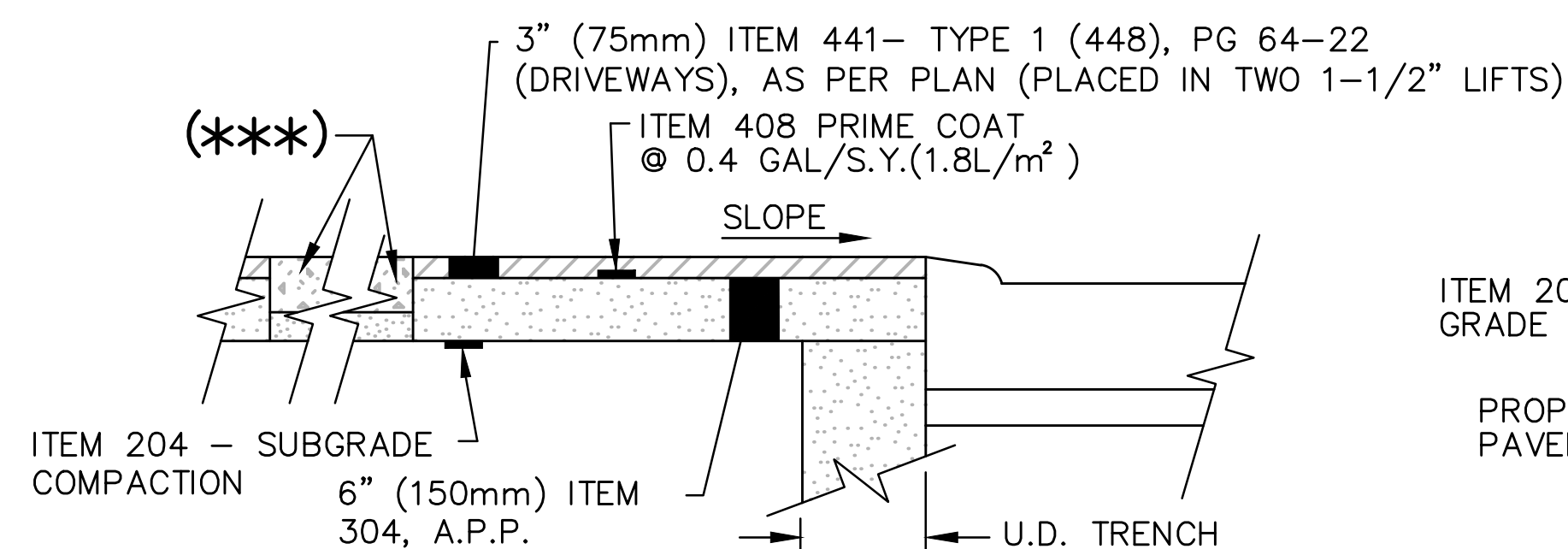
**AGGREGATE DRIVE (COMMERCIAL)
W/ASPH. OR CONC. APRON
SECTION (*)**



**AGGREGATE DRIVE (RESIDENTIAL)
W/ASPH. OR CONC. APRON
SECTION (*)**



**ASPHALT DRIVE & APRON
(COMMERCIAL)
SECTION (*)**



**ASPHALT DRIVE & APRON
(RESIDENTIAL)
SECTION (*)**

FLEXIBLE DRIVES

1" (25mm) EXPANSION JOINT MATERIAL 705.03 WITH TOP 1" (25mm) SEALED WITH 705.04

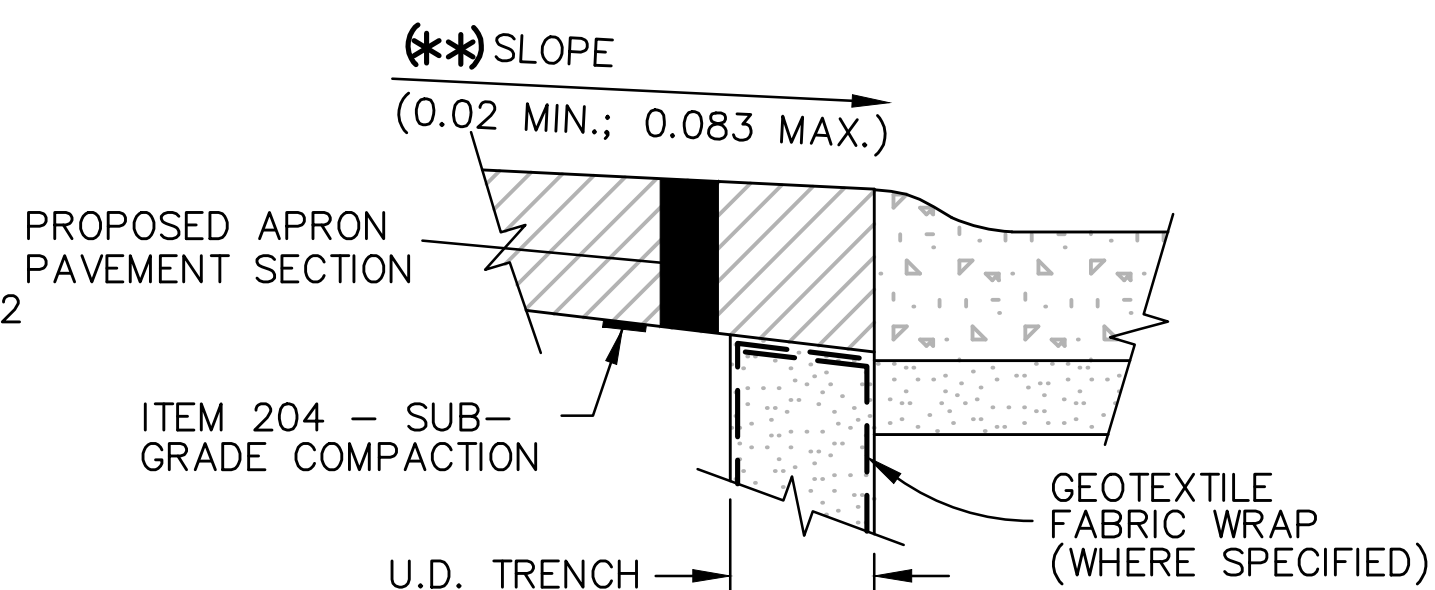
ITEM 451 - 8" (200mm) REINFORCED CONCRETE PAVEMENT, AS PER PLAN (COMMERCIAL)
-OR-
ITEM 452-6" (150mm) NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN (RESIDENTIAL)
6" (150mm) ITEM 304-AGGREGATE BASE, AS PER PLAN

ITEM 204 - SUB- GRADE COMPACTION

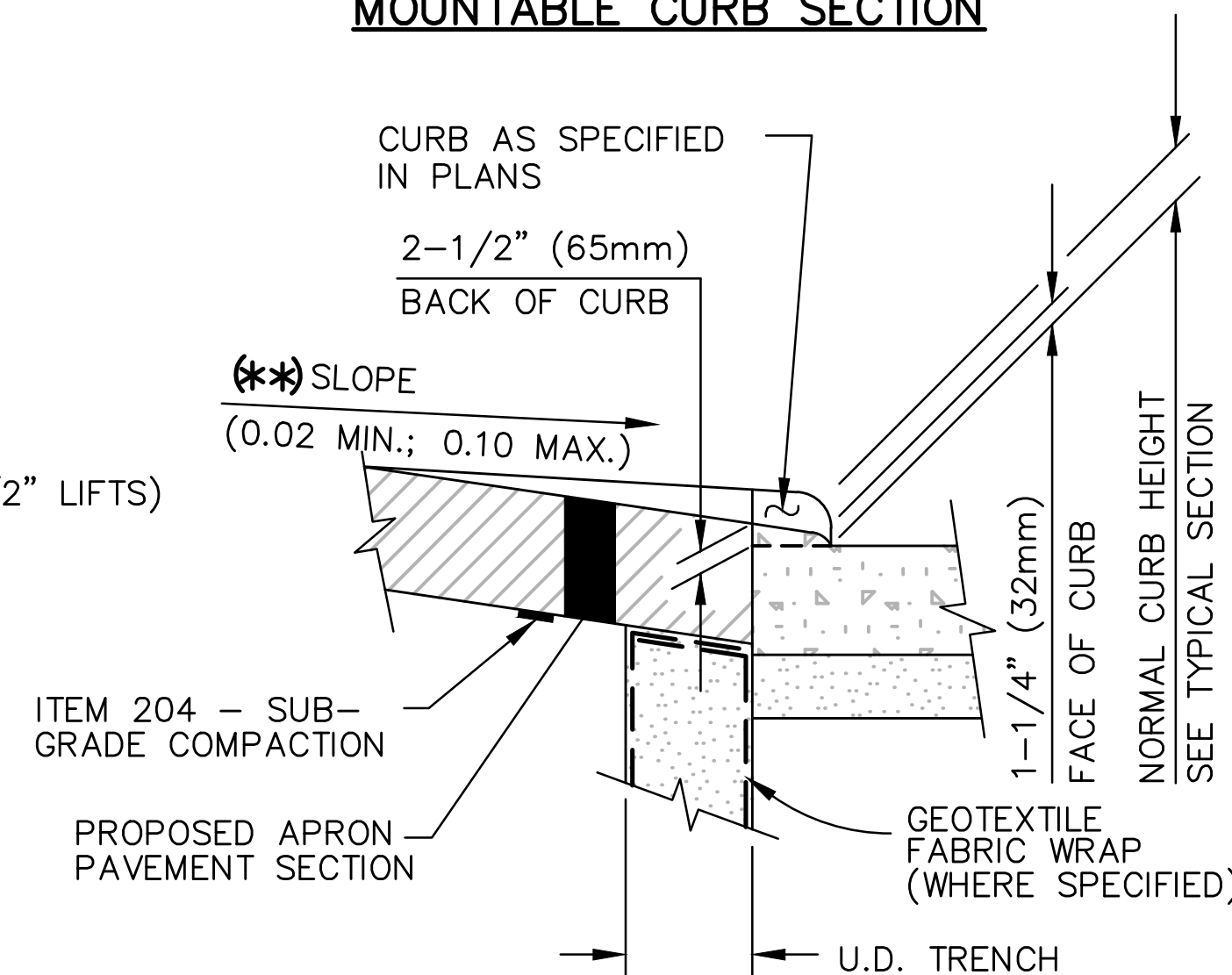
THICKEN EDGE OF CONCRETE APRON 2" (50mm) IN 5'-0" (1.5m). COST FOR THICKENED EDGE SHALL BE INCLUDED IN THE SQUARE YARD (SQUARE METER) UNIT PRICE BID FOR ITEM 451, A.P.P. OR 452, A.P.P.

**CONCRETE DRIVE &
APRON SECTION**

CONCRETE DRIVES



MOUNTABLE CURB SECTION



DROPPED CURB SECTION

CURB DETAILS

NOTES:

(*) UNLESS OTHERWISE SHOWN ON THE PLAN TO MEET AN EXISTING HIGHER GRADE OF COMPOSITION.

DROPPED CURB HEIGHT SHALL BE ONE AND ONE QUARTER (1-1/4) INCHES (32mm) AT FACE OF CURB AND TWO AND ONE-HALF (2-1/2) INCHES (65mm) AT BACK OF CURB. SEE "DROPPED CURB SECTION." SATISFACTORY TRANSITION FROM NORMAL CURB HEIGHT TO DROPPED CURB HEIGHT SHALL BE EIGHTEEN (18) INCHES UNLESS OTHERWISE DETAILED IN THE PLANS AND INCLUDED IN THE CONTRACT UNIT PRICES BID FOR THE DRIVE APRON PAVEMENT AND ROADWAY CURB.

AN IMPRESSED (TOOLED) JOINT WITHOUT TIE BARS SHALL BE CONSTRUCTED AT THE LONGITUDINAL CENTER LINE OF ALL CONCRETE DRIVES. IN ADDITION, IMPRESSED (TOOLED) LONGITUDINAL AND TRANSVERSE JOINTS (WITHOUT LOAD TRANSFER DEVICES) SHALL BE CONSTRUCTED AT TEN (10) FOOT (3.0m) MAXIMUM CENTERS PER THE LOCATIONS SHOWN ON THE DRIVE/DRIVE APRON DETAILS AND/OR AS DIRECTED BY THE ENGINEER. THE MINIMUM WIDTH AND DEPTH OF IMPRESSED (TOOLED) JOINTS SHALL BE ONE-QUARTER (1/4) INCH (6mm) AND ONE-FOURTH THE PAVEMENT THICKNESS RESPECTIVELY. IN LIEU OF THE IMPRESSED (TOOLED) JOINT CONSTRUCTION, LONGITUDINAL JOINTS MAY BE SAWED PER 451.09 (A) AND TRANSVERSE JOINTS MAY BE SAWED PER 451.09 (D). WHERE LONGITUDINAL CONSTRUCTION (BUTT) JOINTS ARE REQUIRED, THEY SHALL BE BUILT USING HOOK BOLTS PER 451.09 (A) AND THE BUTT JOINT DETAIL ON BP-2.1, OR PER THE METHODS DETAILED/DESCRIBED ON BP-2.1 (TYPE D JOINT). UNLESS OTHERWISE DIRECTED BY THE ENGINEER, TRANSVERSE BUTT JOINTS (WITHOUT LOAD TRANSFER DOWELS) SHALL BE CONSTRUCTED AT THE MEET EXISTING DRIVE/PROPOSED DRIVE APRON LOCATIONS. ALL DRIVEWAY JOINTS SHALL BE SUBSEQUENTLY CLEANED AND LEFT UNSEALED.

WIRE FABRIC MESH CONFORMING TO 709.10 SHALL BE 6"x 6" (150mm x 150mm) W4 x W4 (MW26 x MW26) INSTALLED PER STANDARD CONSTRUCTION DRAWING BP-1.1 FOR ALL REINFORCED CONCRETE DRIVES.

CONCRETE DRIVE APRONS SHALL BE CONSTRUCTED THROUGH NEW OR EXISTING CONCRETE WALKS. ONE-HALF (1/2) INCH (13mm) EXPANSION JOINT MATERIAL 705.03 SHALL BE PROVIDED WHERE DRIVE APRONS ABUT CONCRETE WALKS. IMPRESSED (TOOLED) JOINTS AS DESCRIBED ABOVE SHALL BE PROVIDED AT THE NORMAL FACE AND BACK OF WALK LOCATIONS.

(**) WITHIN THE LIMITS THAT THE CONCRETE DRIVE APRONS CROSS THROUGH SIDEWALK, THE DRIVE APRON PROFILES SHALL MATCH THE WALK CROSS SLOPE.

(***) CONCRETE WALKS SHALL BE CONSTRUCTED THROUGH FLEXIBLE DRIVES BY PROVIDING A SIX (6) INCH (150mm) THICKENED WALK SECTION WITH A THREE (3) INCH (75mm) AGGREGATE BASE COURSE (ITEM 304, AS PER PLAN) ON A TWELVE (12) INCH (300mm) COMPACTED SUBGRADE THROUGH AND A MINIMUM OF ONE (1) FOOT (0.3m) EITHER SIDE OF A RESIDENTIAL DRIVE; AND AN EIGHT (8) INCH (200mm) THICKENED WALK SECTION WITH FOUR (4) INCHES (100mm) OF AGGREGATE BASE COURSE (ITEM 304, AS PER PLAN) ON A TWELVE (12) INCH (300mm) COMPACTED SUBGRADE THROUGH AND A MINIMUM OF ONE (1) FOOT (0.3m) EITHER SIDE OF A COMMERCIAL DRIVE. THE ABOVE WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR "ITEM 608- 4" (100mm) CONCRETE WALK, AS PER PLAN".

FOR SHOULDER AND DITCH SECTIONS, SEE TYPICAL DRIVE PIPE AND DITCH INLET DETAILS ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MD-5C.

SEE THE PLANS FOR DRIVE PROFILES, TYPICAL DRIVE AND DRIVE APRON GEOMETRIC DETAILS, AND FOR THE CORRELATING DRIVE TABLE DIMENSIONS. THE DRIVE AND DRIVE APRON DETAILS ILLUSTRATE TYPICAL DRIVE/APRON GEOMETRY, CURB CUT TRANSITIONS, DRIVE CURB DETAILS, ETC., AND ARE CORRELATED WITH THE DRIVE TABLE DIMENSIONS.

CUYAHOGA COUNTY ENGINEER

DRIVE & DRIVE APRON
PAVEMENT COMPOSITIONS

CONSTRUCTION
DRAWING BP-4.1C

DATE
02-10-03
06-11-03
09-29-03
03-01-05
06-27-05
08-08-05
08-28-07
10-10-08
05-31-10
10-31-13
10-08-15
11-15-17

