

PLAN APPROVALS

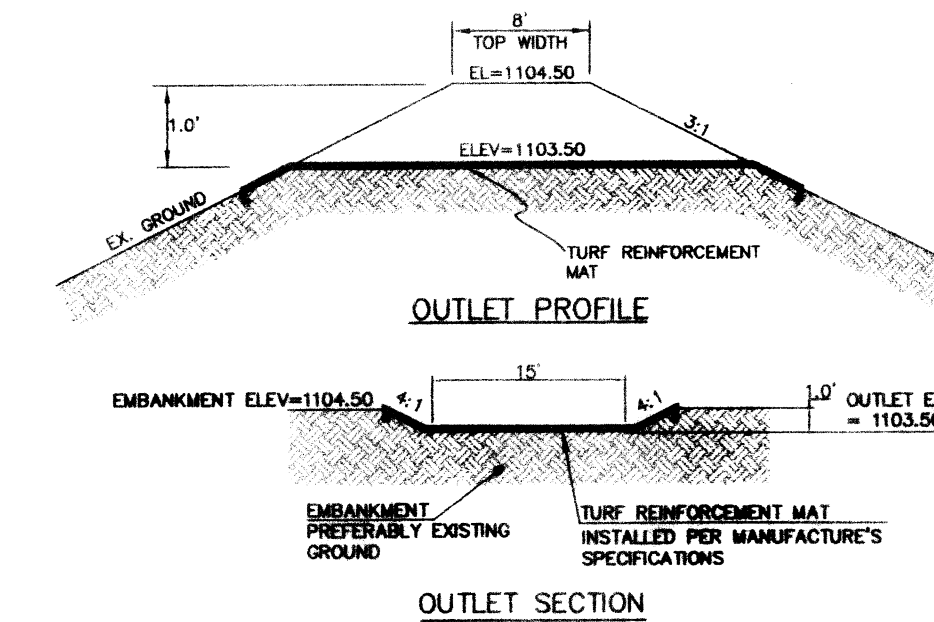
TITLE, NOTES AND QUANTITY SHEET



60d NAIL FD 1' UP SOUTH OF OE Co POLE
2719-4 LOCATED @ THE N.E. CORNER OF
RICHVILLE DR S.E. & NAVE RD S.E.

ELEVATION = 1098.23

(C1) CURVE DATA
 $\Delta = 89^{\circ}52'11''$
 $R = 30.00'$
 $L = 47.06'$
 $T = 29.93'$
 $CH = 42.38'$
 $CH\ BRG = N70^{\circ}57'24''W$



EMERGENCY SPILLWAY DETAIL

STORM SEWER DATA

D0: EX CATCH BASIN
T/G=1003.29
EX FL 12"(SE)=1099.39
PROP FL 12"(NW)=1099.39
(CORE DRILL CONNECTION)
EX PDO: 12" STM R=3.27%

D5: STM CB, ODOT 2-2B
T/G=1103.75
FL 8"(NE)=1100.84
FL 10"(NW)=1100.84
FL 12"(S)=1100.84

PD5: 99 LF 12" STM R=0.24%

FL 12"(SE)=1099.47

D6: STM CB, ODOT 2-2B
T/G=1103.50
FL 10"(SE)=1101.39

PD1: 20 LF 12" STM R=0.42%

PD6: 91 LF 10" STM R=0.60%
(SEE NOTE 11)

D2: PRE-MANUFACTURED
TAPERED OUTLET
FL 12"(NW)=1100.11

D7: STM CB, TYPE 'S'
T/G=1104.00
FL 8"(NW,SW)=1101.41

D3: STM CB, ODOT 2-2B
T/G=1102.50
FL 6"(NW)=1100.28
FL 12"(NE,SE)=1100.28

PD7: 89 LF 8" STM R=0.64%

PD3: 40 LF 12" STM R=0.42%

D8: STM CB, TYPE 'S'
T/G=1104.00
FL 6"(SW)=1102.00
FL 8"(SE)=1102.00

D4: STM CB, ODOT 2-2B
T/G=1103.00
FL 12"(N,SW)=1100.60

PD8: 147 LF 8" STM R=0.40%

PD4: 81 LF 12" STM R=0.40%
(SEE NOTE 11)

GENERAL NOTES

- 1.) SANITARY SEWER IMPROVEMENT PLAN & PROFILE AND SEWER EASEMENT ARE BY SEPARATE INSTRUMENTS.
- 2.) FLOOD CONTROL FOR THIS SITE WAS PROVIDED IN THE EXISTING DETENTION BASIN SW OF THIS SITE. PROPOSED DRAINAGE IS TO CONNECT TO THE EXISTING CB LOCATED BETWEEN LOTS 1 AND 2 IN WITTENBERG COMMONS. EROSION CONTROL AND WATER QUALITY MEASURES ARE REQUIRED PRIOR TO DISCHARGE INTO THE EXISTING CB.
- 3.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES, AND STANDARD SPECIFICATIONS OF THE CITY OF MASSILLON. IN LIEU OF ANY LOCAL SPECIFICATIONS WORK SHALL BE DONE IN CONFORMANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MOST RECENT EDITION.
- 4.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION.
- 5.) DRIVEWAY PERMITS, STREET OPENING PERMITS, AND SANITARY PERMITS ARE REQUIRED. CONTRACTOR SHALL CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.
- 6.) ALL EXISTING FIELD CONDITIONS SHALL BE FIELD CHECKED AND VERIFIED BY CONTRACTORS PRIOR TO BIDDING AND CONSTRUCTION. SHOULD THERE BE ANY DISCREPANCY BETWEEN PLANS AND ACTUAL FIELD CONDITIONS; CONTRACTOR HAS TO SEEK WRITTEN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- 7.) IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO CONSTRUCT ALL ITEMS ON THESE PLANS USING CONSTRUCTION MEANS AND METHODS THAT WILL PROTECT PROPERTY AND PREVENT BODILY INJURY AND/OR DEATH. THE CONTRACTOR SHALL TAKE ANY NECESSARY SAFETY PRECAUTIONS TO COMPLY WITH THE SAFETY REQUIREMENTS OF CITY, STATE, AND FEDERAL GOVERNMENTS.
- 8.) CONSTRUCTION SHALL BE PERFORMED, AND EQUIPMENT STORED, IN A MANNER WHICH PERMITS EXISTING FACILITIES TO PERFORM WITHOUT INTERRUPTION.
- 9.) THE PROPOSED RETAINING WALL SHALL BE CONSTRUCTED OF MODULAR UNITS (VERSA-LOK OR APPROVED EQUAL) IN ACCORDANCE WITH THE MANUFACTURES SPECIFICATIONS. ESTIMATED AREA FOR THE FACE OF THE RETAINING WALL = $660 \pm$ SF. T/WALL=1108.00 B/WALL=1104.25. TRANSITION T/WALL @ BOTH ENDS FROM 1108.00 TO 1106.50 IN 10'.
- 10.) A SEPARATE INSTRUMENT WILL BE PREPARED FOR THE RICHVILLE DRIVE R/W DEDICATION.
- 11.) CONTRACTOR SHALL INSTALL LOW STRENGTH MORTAR BACKFILL TO PAVEMENT SUBGRADE FOR PD4 AND PD6.
- 12.) ALL DISTURBED YARD AREAS SHALL BE FINE GRADED, SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH ODOT 659. THE TWO TREES DESIGNATED FOR REMOVAL SHALL BE COMPLETELY REMOVED FROM THE SITE (INCLUDING STUMPS).
- 13.) NO SOIL BORINGS WERE ACQUIRED FOR THIS PROJECT. THE CONTRACTOR MAY PERFORM HIS OWN SOILS INVESTIGATION AFTER OBTAINING APPROVAL FROM THE OWNER.
- 14.) EMBANKMENT CONSTRUCTION AND SUBGRADE COMPACTION SHALL BE IN GENERAL CONFORMANCE WITH ODOT SPECIFICATIONS AND MORE SPECIFICALLY AS FOLLOWS:
 - STANDARD PROCTOR WITHIN BUILDING LIMITS (TO 5' OUTSIDE BUILDING LINE) AND UNDER PAVEMENT.
 - STANDARD PROCTOR IN UTILITY TRENCHES = 95%.
 - STANDARD PROCTOR IN YARD AREAS = 90%.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE EROSION CONTROL IN GENERAL CONFORMANCE WITH REQUIREMENTS OF THE CITY OF MASSILLON ENGINEER'S OFFICE AND IN SPECIFIC CONFORMANCE WITH EROSION CONTROL PLANS.
- 15.) THE FOLLOWING MATERIALS ARE APPROVED FOR THE STORM SEWER UNLESS OTHERWISE DESIGNATED ON THE PLAN. INSTALLATION TO BE IN ACCORDANCE WITH ODOT TYPE 'B' UNLESS OTHERWISE NOTED.
 - REINFORCED CONCRETE PIPE PER ODOT ITEM 603
 - HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR PER ODOT ITEM 707.33
 - DOWNSPOUT HEADERS SHALL BE PVC (SDR 35) IN ACCORDANCE WITH ASTM D-3034.
- 16.) ODOT 2-2-B CATCH BASIN TOP SLAB & GRATE SHALL BE MODIFIED FOR HIGHWAY LOADING AS REQUIRED. GRATES TO BE BIKE SAFE (EAST JORDAN IRON WORKS : 5110 TYPE M3).
- 17.) PROPOSED 8" WATER LINE EXTENSION AND HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF AQUA OHIO INC. LAYOUT PLAN AND EASEMENT PLAT BY SEPARATE EASEMENT.
- 18.) WATER SERVICES SHALL BE 1" TYPE 'K' SOFT COPPER INSTALLED IN CONFORMANCE WITH APPROPRIATE REGULATIONS.
- 19.) TAPER THE CONCRETE CURB FROM 6" TO 0" IN THE LAST 24"

PARKING SUMMARY:

<u>PARKING SUMMARY:</u>	
GARAGED	16 SPACES
IN FRONT OF GARAGE	16 SPACES
COMMON HANDICAP	2 SPACES
COMMON STANDARD	28 SPACES
TOTAL PARKING	62 SPACES

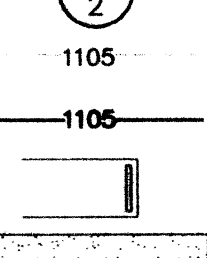
ESTIMATED EARTHWORK QUANTITIES

THIS QUANTITY WAS GENERATED BY COMPARING THE
EXISTING AND PROPOSED CONTOURS REPRESENTED ON
THIS PLAN. FILL VOLUME INCLUDES AN ASSUMED 10%
COMPACTION FACTOR.

CUT = 1,790 CU. YDS.
FILL = 2,338x1.1 = 2,572 CU. YDS.
MATERIAL NEEDED = 782 CU. YDS.

LEGEND





D
5
 S
2
 1105
 1105
 WHEEL STOP [30 EA]
 ASPHALT PAVEMENT (SEE DETAIL SHEET 4) [18214 SF]
 5' CONCRETE WALK (SEE DETAIL SHEET 4) [979 SF]
 6" DOWNSPOUT HEADER [735 LF]
 S
 SAN
 W
 DRAINAGE STRUCTURE #1
 SANITARY STRUCTURE #1
 EXISTING CONTOUR ELEV=1105
 PROPOSED CONTOUR ELEV=1105
 PROPOSED STORM SEWER
 PROPOSED WATER LINE
 PROPOSED SANITARY SEWER

H:\Land Projects R2\05351\dwg\05351-CUR.dwg 7/3/2006 2:55:35 PM EDT

DRAINAGE, GRADING AND SITE PLAN (2.807 AC)		
BUCKEYE CROSSING LOCATED IN THE CITY OF MASSILLON STARK COUNTY, OHIO FOR: P.R.M.D.C. LTD.	BRYAN J. ASHMAN JEROLD E. GEIB PHONE (330) 452-5731 FAX No (330) 452-9110	
DRAWN BY: M.J.		
CHECKED BY: BJA		
FIELD BOOK NO:		
DATE 5/18/2006		
SHEET 3	OF	4
PROJ# 05351		



OF
PIPE.
C.P.
THAN

8" MASONRY CLOSURE
1/2" FELT WRAPPING

CARRIER PIPE

1-1/2" PIPE AT LOW END
OF CASING PIPE FOR
DRAINAGE

The diagram shows a cross-section of a carrier pipe (C.P.) with a drainage casing pipe installed at its low end. The casing pipe is labeled '1-1/2" PIPE AT LOW END OF CASING PIPE FOR DRAINAGE'. The carrier pipe is labeled 'CARRIER PIPE'. The casing pipe is sealed with '8" MASONRY CLOSURE' and '1/2" FELT WRAPPING'. The casing pipe is shown with a break in the middle, indicated by two parallel diagonal lines. The carrier pipe is shown with a break in the middle, indicated by two parallel diagonal lines. The casing pipe is shown with a break in the middle, indicated by two parallel diagonal lines.

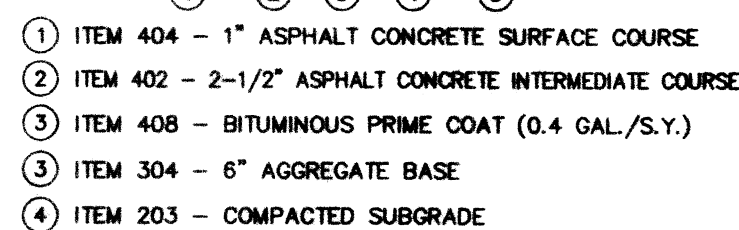


PIPE SKID DETAIL

BORING DETAIL
NOT TO SCALE



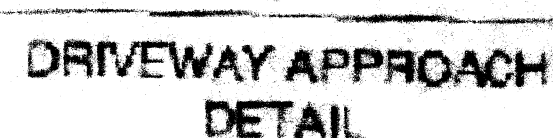
TYPE 'S' CATCH BASIN
NOT TO SCALE



TYPICAL PARKING LOT SECTION
NOT TO SCALE
(OR AS APPROVED BY OWNER)
ESTIMATED AREA = 23,330 S.F.



OPEN CUT DETAIL



LEGEND

- 1 May be reduced to 3'-0" in existing sidewalks if the landing is unobstructed along the back edge.
 - 2 May be reduced to 3'-4" in existing sidewalks to better fit the walk configuration or where site conditions are dictated by narrow sidewalks, poor foundations, drainage inlets, etc. The width may be tapered.
 - 3 Where landing width (L) has been reduced to 3'-0" the two end sides shall have a maximum width of 12" [12:1] [0.083].
- Flared sides are not required where the edges of a curb are protected by bollards, planters, other barriers to travel by wheel chair users or pedestrians across the edges of the curb and where the flared end sides are used in these areas, they may be of any slope.
- 4 The slope of the ramp toward the curb is preferred to be 12:1 [0.083] or flatter related to the horizontal, but the maximum slope shall be 12:1 [0.083] relative to the existing or proposed walk slope.
- In existing sidewalks, where the maximum ramp slope (S) is not feasible, it may be reduced as follows:
- a) 1) 10:1 [0.10] for a max. rise of 6";
 - b) 2) 8:1 [0.125] for a max. rise of 4";
 - c) 6:1 [0.167] over a max. run of 2'-0" for a rise where the 12:1 slope is not feasible.
- 5 The minimum length of a perpendicular ramp is 6' from the back of a 6" curb and may be increased where feasible to obtain a flatter ramp slope or to better blend into the walk contour.
- 6 Gutter counter slopes at the foot of perpendicular curbs should not exceed 20:1 [0.05] over a distance of 6'-0" from the curb.
- 7 Dimensions derived by equation are nominal. Construct to meet or exceed required conditions.

NOTES

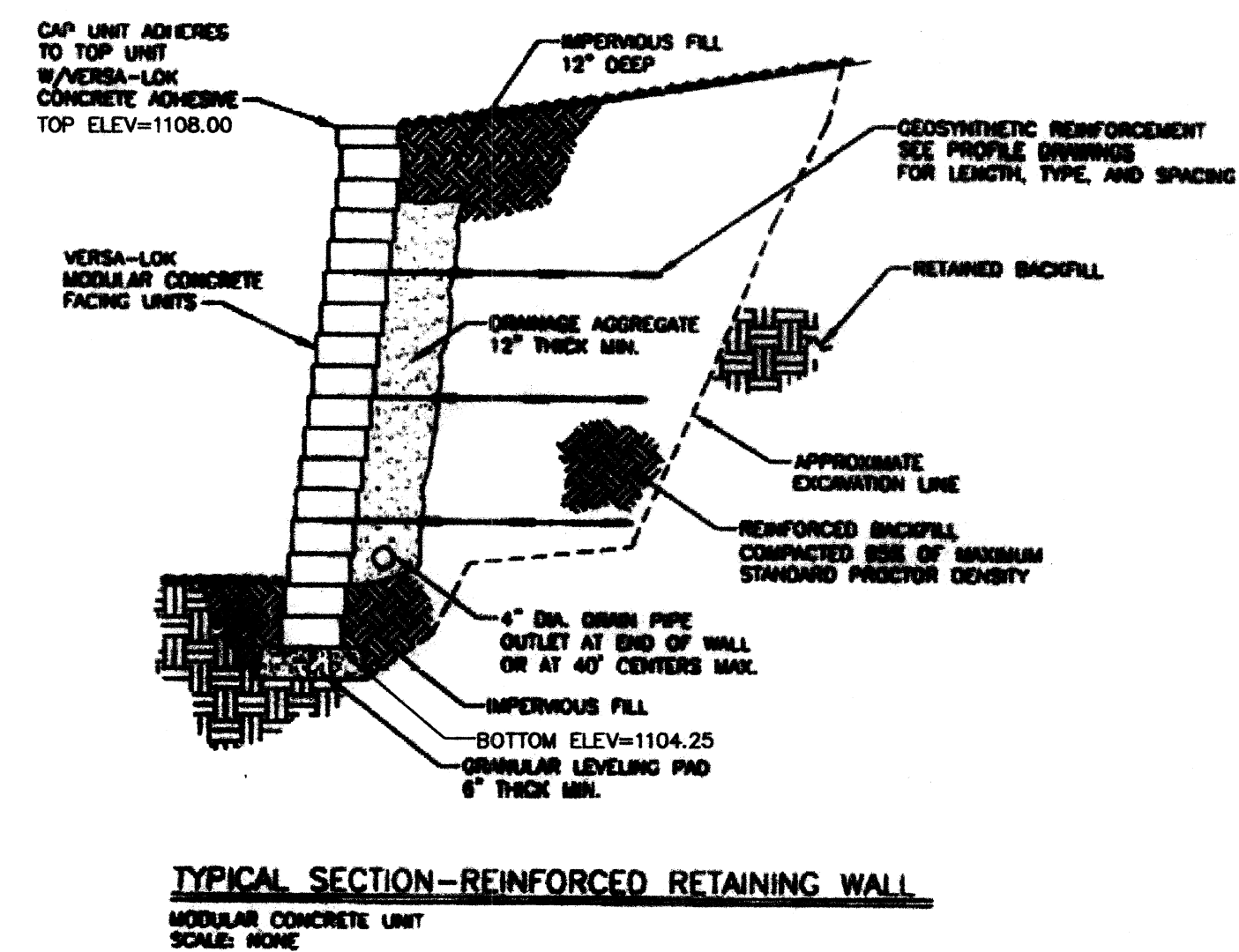
SURFACE TEXTURE: Detectable warning on walking surface warnings shall consist of raised truncated domes with a diameter of nominal 0.9 in., a height of nominal 0.2 in., a center-to-center spacing of nominal 2.35 in. and shall contrast visually with adjoining surfaces either light-on-dark, or dark-on-light.

The material used to provide contrast on an intral part of the walking surface.

JOINTS: shall be provided in the curb ramp as extensions of walk-off joints and consistent with Item 608.03 requirements for a new concrete walk.

1/2" Item 705.03 expansion joint filler shall be provided around the curb ramp to seal it in existing concrete walk. Lines shown on this drawing indicate the location of the curb ramp slope changes and are not necessarily joint lines.

PAYMENT: Walk and curb, Items 608 and 609, shall be measured through the curb ramp area paid for under their respective Item/Item 608 - Curb Ramp. Subcontractor shall include the cost of any additional materials, grading, forming and finishing/Item 608 - Curb Ramp, and Item 609 - Subcontractor shall include the cost of furnishing all materials, grading, forming and finishing for the curb and walk of the curb ramp. Removal of existing curb and walk shall be paid for under Item 702.



TYPICAL SECTION-REINFORCED RETAINING WALL
MODULAR CONCRETE UNIT
SCALE: NONE