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ITEM 441 - 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG64-22 (448)

ITEM 407 - NON-TRACKING TACK COAT (0.075 GAL./SQ. YD.)

ITEM 441 - 1-3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG64-22 (448)

ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22

ITEM 304 - 6" AGGREGATE BASE

ITEM 204 - SUBGRADE COMPACTION

ITEM 609 - COMBINATION CURB AND GUTTER (SEE STANDARD DWG RD-02) *

ITEM 605 - 6" PIPE UNDERDRAIN, 707.12 TYPE SP *

ITEM 12659 - SEEDING AND MULCHING **

ITEM 12653 - 3" TOPSOIL **

ITEM 608 - 4" CONCRETE WALK (SEE STANDARD DWG) (8" AT CURB RAMP LOCATION AS PER STD DWG. 2303) *

ITEM 1540 - ASPHALT REJUVENATING AGENT *

ALL ITEMS ARE ODOT UNLESS OTHERWISE INDICATED:

* CITY OF COLUMBUS (COLS.)
** CITY OF WESTERVILLE

NOTE: THIS PAVEMENT SECTION IS INTENDED AS A MINIMUM PAVEMENT DESIGN ONLY, IT IS THE RESPONSIBILITY OF EACH APPLICANT TO PERFORM ANY NECESSARY SUB-SURFACE INVESTIGATIONS TO PROPERLY ENGINEER A SUITABLE 30 YEAR PAVEMENT DESIGN.

THIS STANDARD DRAWING IS A GUIDELINE.
FOR EACH PROJECT THE TYPICAL SECTION SHALL BE APPROVED BY THE CITY ENGINEER.
WEST ITEM 12653
3" PROCESSED TOPSOIL

1/4" R.
6"
18"

3/8"
1/4" R.

4-7/8"

* = 0

* FLUSH AT RAMPS

PAVEMENT SECTION
AS SPECIFIED

12-1/4"
6"
7-1/4"

# 8 or # 57
CRUSHED
AGGREGATE

12"
8"
6"

6" MIN.

COLS. ITEM 605
6" PIPE
UNDERDRAIN,
720.12 TYPE SP

COLS. ITEM 609
CONCRETE
CLASS COC 5 (4500 PSI)

NOTES:  THE BELOW NOTES APPLY TO ALL WORK WITHIN THE PUBLIC RIGHT OF WAY AND OR PUBLIC
EASEMENT AREAS.

THE ASPHALT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS AND RAKED OUT A
MINIMUM OF 4' IN WIDTH SLOPED 20:1 FROM THE GUTTER TOWARDS THE CENTERLINE OF THE
ROADWAY A DISTANCE OF 8'.

THE VOLUME OF CONCRETE PER LINEAL FOOT = 1.26 CF.

ALL EXPOSED SURFACES OF CONCRETE SHALL HAVE A BRUSH FINISH.
Curb ramps, sidewalks, and pathways shall be constructed in accordance with the guidelines proposed by the United States Access Board (Architectural and Transportation Barriers Compliance Board) as published in the “Proposed Guidelines for Pedestrian Facilities in the Public Right-of-Way” and the “Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way; Shared Use Paths”.

The contractor shall reference the latest edition of the City of Columbus Curb Ramp Standard Drawings for additional details and material requirements. Final acceptance and compliance with the above referenced guidelines shall be the sole responsibility of the contractor.

All curb ramps, sidewalks, pathways and/or associated concrete work found to be non-compliant with the above guidelines shall be removed and reconstructed by the contractor to meet the above guidelines.

All new concrete and asphalt shall have positive drainage. Any areas holding water shall be removed and reconstructed by the contractor.

All concrete shall be Cols. Class COC 5 (4500 PSI).

All sawcutting shall be performed using water.

Immediately after finishing, concrete shall be cured and sealed with a clear concrete curing membrane. Use of pigmented curing membranes shall result in the removal and replacement of any concrete so cured at the contractor’s expense.

All concrete shall be placed in one course and finished according to specifications.

No. 8 or No. 57 stone under the curb and gutter section shall be 6” deeper than all paving and undercut materials to allow subsurface drainage to flow to the roadway underdrains.

The contractor shall properly protect the work area during construction and shall not remove the protection until the work area is 100% complete and accessible.

Extend roof drains under the sidewalk and through the curb. (See City of Columbus, Ohio Standard Construction Drawing 2320 DR. A.). Place / space control joints to line up over drain crossing. Ensure positive drainage from right of way line.

Cold weather concrete protection shall be provided in accordance with Cols. Item 451.061.

For replacement work, the curb shall be removed to existing joint or no closer than 5-feet from an existing joint.

Subgrade compaction shall be completed before underdrain installation.

When a curb and gutter inlet is installed, the top of the casting shall be the same as the top of curb elevation. The edge of pavement shall be 3/8” higher than the grate wherever they meet / touch. When new curbing is installed adjacent to a curb inlet, 1” performed expansion joint filler shall be placed in the curb & gutter 5’ on each side of inlet casting.

1/2” expansion joints will be installed behind the curb when a concrete walk, drive or other item is adjoining it.
NOTES: THE BELOW NOTES APPLY TO ALL WORK WITHIN THE PUBLIC RIGHT OF WAY AND OR PUBLIC EASEMENT AREAS.

THE ASPHALT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS AND RAIRED OUT A MINIMUM OF 4' IN WIDTH SLOPED 20:1 FROM THE GUTTER TOWARDS THE CENTERLINE OF THE ROADWAY A DISTANCE OF 8'.

THE VOLUME OF CONCRETE PER LINEAL FOOT = 0.75 CF.

ALL EXPOSED SURFACES OF CONCRETE SHALL HAVE A BRUSH FINISH.
CURB RAMPS, SIDEWALKS, AND PATHWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES PROPOSED BY THE UNITED STATES ACCESS BOARD (ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD) AS PUBLISHED IN THE “PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY” AND THE “ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY; SHARED USE PATHS”.

THE CONTRACTOR SHALL REFER TO THE LATEST EDITION OF THE CITY OF COLUMBUS CURB RAMP STANDARD DRAWINGS FOR ADDITIONAL DETAILS AND MATERIAL REQUIREMENTS. FINAL ACCEPTANCE AND COMPLIANCE WITH THE ABOVE REFERENCED GUIDELINES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ALL CURB RAMPS, SIDEWALKS, PATHWAYS AND/OR ASSOCIATED CONCRETE WORK FOUND TO BE NON-COMPLIANT WITH THE ABOVE GUIDELINES SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR TO MEET THE ABOVE GUIDELINES.

ALL NEW CONCRETE AND ASPHALT SHALL HAVE POSITIVE DRAINAGE. ANY AREAS HOLDING WATER SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR.

ALL CONCRETE SHALL BE COLS. CLASS COC 5 (4500 PSI).

ALL SAWCUTTING SHALL BE PERFORMED USING WATER.

IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED AND SEALED WITH A CLEAR CONCRETE CURING MEMBRANE. USE OF PIGMENTED CURING MEMBRANES SHALL RESULT IN THE REMOVAL AND REPLACEMENT OF ANY CONCRETE SO CURED AT THE CONTRACTOR’S EXPENSE.

ALL CONCRETE SHALL BE PLACED IN ONE COURSE AND FINISHED ACCORDING TO SPECIFICATIONS.

NO. 8 OR NO. 57 STONE UNDER THE CURB AND GUTTER SECTION SHALL BE 6" DEEPER THAN ALL PAVING AND UNDERCUT MATERIALS TO ALLOW SUBSURFACE DRAINAGE TO FLOW TO THE ROADWAY UNDERDRAINS.

THE CONTRACTOR SHALL PROPERLY PROTECT THE WORK AREA DURING CONSTRUCTION AND SHALL NOT REMOVE THE PROTECTION UNTIL THE WORK AREA IS 100% COMPLETE AND ACCESSIBLE.

EXTEND ROOF DRAINS UNDER THE SIDEWALK AND THROUGH THE CURB. (SEE CITY OF COLUMBUS, OHIO STANDARD CONSTRUCTION DRAWING 2320 DR. A.). PLACE/SPACE CONTROL JOINTS TO LINE UP OVER DRAIN CROSSING. ENSURE POSITIVE DRAINAGE FROM RIGHT OF WAY LINE.

COLD WEATHER CONCRETE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH COLS. ITEM 451.061.

FOR REPLACEMENT WORK, THE CURB SHALL BE REMOVED TO EXISTING JOINT OR NO CLOSER THAN 5-FEET FROM AN EXISTING JOINT.

SUBGRADE COMPACTION SHALL BE COMPLETED BEFORE UNDERDRAIN INSTALLATION.

WHEN A CURB AND GUTTER INLET IS INSTALLED, THE TOP OF THE CASTING SHALL BE THE SAME AS THE TOP OF CURB ELEVATION. THE EDGE OF PAVEMENT SHALL BE 3/8" HIGHER THAN THE GRATE WHEREVER THEY MEET/TOUCH. WHEN NEW CURBING IS INSTALLED ADJACENT TO A CURB INLET, 1" PERFORMED EXPANSION JOINT FILLER SHALL BE PLACED IN THE CURB & GUTTER 5' ON EACH SIDE OF INLET CASTING.

1/2" EXPANSION JOINTS WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE OR OTHER ITEM IS ADJOINING IT.
COLS. ITEM 705.03
1/2" EXPANSION
JOINT (TYP.)

6" CONCRETE
CLASS COC 5
(4500 PSI)

COLS. ITEM 705.03
1/2" EXPANSION
JOINT (TYP.)

GUTTER
OR
PAVEMENT

6"

COLS. ITEM 705.03
1/2" EXPANSION
JOINT

COLS. ITEM 452, 6" CONCRETE,
CLASS COC 5 (4500 PSI)

COMPACTED 6" OF COLS. ITEM 304

PLAN VIEW

DRIVE APRON

SIDEWALK

DRIVEWAY

MAX. SLOPE
3/16"/FT.

COLS. ITEM 705.03 1/2"
EXPANSION JOINT

CODED NOTES

1. 3' ON ROADWAYS LESS THAN 35 MPH (DESIGN SPEED).
   5' ON ROADWAYS 35 MPH (DESIGN SPEED) OR GREATER

2. MAXIMUM DRIVE SLOPE OF 8% ON LOCALS STREETS,
   COLLECTORS AND ARTERIALS MAXIMUM DRIVE SLOPE
   OF 4%. THIS APPLIES TO NEW AND RE-DEVELOPMENTS.
NOTES: THE BELOW NOTES APPLY TO ALL WORK WITHIN THE PUBLIC RIGHT OF WAY AND OR PUBLIC EASEMENT AREAS.

CURB RAMPS, SIDEWALKS, AND PATHWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES PROPOSED BY THE UNITED STATES ACCESS BOARD (ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD) AS PUBLISHED IN THE "PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" AND THE "ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY; SHARED USE PATHS".

THE CONTRACTOR SHALL REFERENCE THE LATEST EDITION OF THE CITY OF COLUMBUS CURB RAMP STANDARD DRAWINGS FOR ADDITIONAL DETAILS AND MATERIAL REQUIREMENTS. FINAL ACCEPTANCE AND COMPLIANCE WITH THE ABOVE REFERENCED GUIDELINES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ALL CURB RAMPS, SIDEWALKS, PATHWAYS AND/OR ASSOCIATED CONCRETE WORK FOUND TO BE NON-COMPLIANT WITH THE ABOVE GUIDELINES SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR TO MEET THE ABOVE GUIDELINES.

ALL NEW CONCRETE AND ASPHALT SHALL HAVE POSITIVE DRAINAGE. ANY AREAS HOLDING WATER SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR.

ALL CONCRETE SHALL BE CLASS COC 5 (4500 PSI).

ALL SAWCUTTING SHALL BE PERFORMED USING WATER.

IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED AND SEALED WITH A CLEAR CONCRETE CURING MEMBRANE. USE OF PIGMENTED CURING MEMBRANES SHALL RESULT IN THE REMOVAL AND REPLACEMENT OF ANY CONCRETE SO CURED AT THE CONTRACTOR'S EXPENSE.

ALL CONCRETE SHALL BE PLACED IN ONE COURSE AND FINISHED ACCORDING TO SPECIFICATIONS.

THE CONTRACTOR SHALL PROPERLY PROTECT THE WORK AREA DURING CONSTRUCTION AND SHALL NOT REMOVE THE PROTECTION UNTIL THE WORK AREA IS 100% COMPLETE AND ACCESSIBLE.

EXPANSION JOINTS SHALL BE PLACED AT 30' INTERVALS AND AT PROPERTY LINES ON SIDEWALKS AND WHEREVER NEW CONCRETE ABUTS EXISTING CONCRETE, FOUNDATIONS, CASTINGS, WATER VALVES, ETC.

ADJUST WATER AND GAS VALVE BOXES IN THE CONCRETE TO THE PROPER GRADE.

A MINIMUM OF 48 HOURS BEFORE CONCRETE IS TO BE PLACED, CALL 614-901-6650 TO SCHEDULE A FORMWORK INSPECTION. IN NO CASE MAY CONCRETE BE PLACED WITHOUT APPROVAL OF FORM WORK BY THE INSPECTOR.

COLD WEATHER CONCRETE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH ITEM COLS. 451.061.

IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED AND SEALED WITH A CURING MEMBRANE IN AN APPROVED MANNER.

FOR REPLACEMENT WORK, THE SIDEWALK AND CURB SHALL BE REMOVED TO EXISTING JOINT OR NO CLOSER THAN 5- FEET FROM AN EXISTING JOINT.
1'-0" MIN., UNLESS OTHERWISE APPROVED

VARIES

3/8" PER FT.

5' MIN.

MAX. SLOPE 3/16" PER FT.

3/8" PER FT.

SLOPE 4:1 MAX. (RESIDENTIAL)

SLOPE 3:1 MAX. (COMMERCIAL)

COLS. ITEM 608
4" CONCRETE
CLASS COC 5 (4500 PSI)

COMPACTED 4" OF COLS. ITEM 304

6' MIN.

VARIES

(1'-0" MIN., UNLESS OTHERWISE APPROVED)

3/8" PER FT.

SLOPE 4:1 MAX. (RESIDENTIAL)

SLOPE 3:1 MAX. (COMMERCIAL)

COLS. ITEM 705.03
1/2" EXPANSION JOINT

MAX. SLOPE 3/16" PER FT.

COLS. ITEM 608
4" CONCRETE
CLASS COC 5 (4500 PSI)

COMPACTED 4" OF COLS. ITEM 304
NOTES: THE BELOW NOTES APPLY TO ALL WORK WITHIN THE PUBLIC RIGHT OF WAY AND OR PUBLIC EASEMENT AREAS.

CURB RAMPS, SIDEWALKS, AND PATHWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES PROPOSED BY THE UNITED STATES ACCESS BOARD (ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD) AS PUBLISHED IN THE "PROPOSED GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" AND THE "ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, SHARED USE PATHS".

THE CONTRACTOR SHALL REFERENCE THE LATEST EDITION OF THE CITY OF COLUMBUS CURB RAMP STANDARD DRAWINGS FOR ADDITIONAL DETAILS AND MATERIAL REQUIREMENTS. FINAL ACCEPTANCE AND COMPLIANCE WITH THE ABOVE REFERENCED GUIDELINES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ALL CURB RAMPS, SIDEWALKS, PATHWAYS AND/OR ASSOCIATED CONCRETE WORK FOUND TO BE NON-COMPLIANT WITH THE ABOVE GUIDELINES SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR TO MEET THE ABOVE GUIDELINES.

ALL NEW CONCRETE AND ASPHALT SHALL HAVE POSITIVE DRAINAGE. ANY AREAS HOLDING WATER SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR.

ALL CONCRETE SHALL BE CLASS COC 5 (4500 PSI).

USE SAW CUT ON ALL JOINTS (CONTROL, TRANSVERSE, CONTRACTION, EXPANSION, ETC.) DIVIDE THE SURFACE OF THE WALKS INTO EQUALLY SPACED RECTANGULAR BLOCKS AT APPROXIMATELY 5-FOOT INTERVALS. NOT PERMITTED IS A TOOL JOINT AND OR EDGING TOOL TO EDGE ALL OUTSIDE EDGES AND JOINTS UNLESS OTHERWISE APPROVED.

ALL SAWCUTTING SHALL BE PERFORMED USING WATER.

IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED AND SEALED WITH A CLEAR CONCRETE CURING MEMBRANE. USE OF PIGMENTED CURING MEMBRANES SHALL RESULT IN THE REMOVAL AND REPLACEMENT OF ANY CONCRETE SO CURED AT THE CONTRACTOR'S EXPENSE.

WHERE RESIDENTIAL DRIVEWAYS CROSS THE SIDEWALK, THE SIDEWALK SHALL BE A MINIMUM OF 6" THICK.

ALL CONCRETE SHALL BE PLACED IN ONE COURSE AND FINISHED ACCORDING TO SPECIFICATIONS.

THE CONTRACTOR SHALL PROPERLY PROTECT THE WORK AREA DURING CONSTRUCTION AND SHALL NOT REMOVE THE PROTECTION UNTIL THE WORK AREA IS 100% COMPLETE AND ACCESSIBLE.

EXPANSION JOINTS SHALL BE PLACED AT 30' INTERVALS AND AT PROPERTY LINES ON SIDEWALKS AND WHEREVER NEW CONCRETE ABUTS EXISTING CONCRETE, FOUNDATIONS, CASTINGS, WATER VALVES, ETC.

ADJUST WATER AND GAS VALVE BOXES IN THE SIDEWALK TO THE PROPER GRADE.

FORMS SHALL CONSIST OF LUMBER (2" NOMINAL THICKNESS) OR METAL OF EQUAL STRENGTH. FULL DEPTH FORMWORK SHALL BE USED.

A MINIMUM OF 48 HOURS BEFORE CONCRETE IS TO BE PLACED, CALL 614-901-6650 TO SCHEDULE A FORMWORK INSPECTION. IN NO CASE MAY CONCRETE BE PLACED WITHOUT APPROVAL OF FORM WORK BY THE INSPECTOR.

COLD WEATHER CONCRETE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH COLS. ITEM 451.061.

IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED AND SEALED WITH A CURING MEMBRANE IN AN APPROVED MANNER.

FOR REPLACEMENT WORK, THE SIDEWALK AND CURB SHALL BE REMOVED TO EXISTING JOINT OR NO CLOSER THAN 5-Feet FROM AN EXISTING JOINT.
Coded Notes

1. Item 823 - 1-1/2" Asphalt Concrete, Surface Course, Type 1, (448), PG 64-22
2. Item 407 - Non-Tracking Tack Coat (0.075 Gal./Sq. Yd.)
3. Item 301 - 3" Asphalt Concrete Base
4. Item 304 - 6" Aggregate Base
5. Item 204 - Subgrade Compaction
6. Item 12659 - Seeding and Mulching *
7. Item 12653 - 3" Topsoil Furnished and Placed *

All Items are ODOT unless otherwise indicated:

* City of Westerville

* The pathway shall be constructed with a preferred 4 foot horizontal clearance (safety zone) on each side, with a minimum of 2 foot horizontal clearance on each side, unless otherwise approved by the city engineer.

The pathway shall have a 10 foot vertical clearance across the pathway and the horizontal clearance area, unless otherwise approved by the city engineer.

COLUMNS ITEM 204 SUBGRADE COMPACTION

REUSE EXISTING PAVERS

1" SAND COURSE

COLUMNS ITEM 305, MATCH EXISTING DEPTH OF CONCRETE OR A MIN. OF 5" (WHICHEVER IS GREATER) CONCRETE SHALL BE CLASS COC 5 (4500 PSI)

18" MIN. (TYP.)

COLUMNS ITEM 304 5" (MIN.) AGGREGATE BASE

COLUMNS ITEM 912 COMPACTED GRANULAR MATERIAL

CONDUIT

VARIES

TRENCH WIDTH PER CITY OF COLUMBUS STANDARD DRAWINGS

NOTE: NO. 8 OR NO. 57 STONE SHALL NOT BE USED AS BACKFILL

FOLLOW CITY OF COLUMBUS STANDARD DRAWINGS FOR BEDDING AND BACKFILL
NOTES:

1. FENCE SHALL BE MODEL AEGIS II, MAJESTIC STYLE, 3-RAIL, 8’ PANEL LENGTH, AS MANUFACTURED BY AMERISTAR, TULSA OK, OR EQUAL. PER CITY OF WESTERVILLE SPECIFICATION SECTION 12607.

2. FINISH PAINT SHALL BE BLACK, THIS INCLUDES ALL POST, PICKETS, RAILS, CAPS, BRACKETS, SCREWS, BOLTS, ETC.

3. FACE OF RAILING SHALL BE 2’ MINIMUM OFF EDGE OF BIKE PATH / SIDE WALK UNLESS OTHERWISE SHOWN ON PLANS.

4. TOP AND BOTTOM RAILS SHALL BE PARALLEL TO THE GROUND AND VERTICAL PICKETS AND POSTS FINISHED PLUM.

INDUSTRIAL FLAT MOUNTING BRACKET (BB301)
SCALE: NONE

CITY OF WESTERVILLE
DEPARTMENT OF PLANNING AND DEVELOPMENT
ENGINEERING DIVISION

STANDARD CONSTRUCTION DRAWING
DECORATIVE RAILING

CITY ENGINEER
4/15/19
DATE

SHEET 1 OF 1
THE ABOVE SHALL BE USED DURING THE CONSTRUCTION OF THE SANITARY SEWER & SANITARY SERVICE LATERALS AT EXISTING/PROPOSED STORM SEWER AND WATERLINE CROSSINGS. IF A SANITARY SEWER OR SANITARY SEWER LATERAL IS DISTURBED DURING CONSTRUCTION OF THE STORM SEWER OR THE WATERLINE, IT MUST BE RESTORED TO THE REQUIREMENTS OF THIS DETAIL. LENGTH OF THE II BARRIER PROTECTION FOR LATERALS SHALL BE 10 FEET CENTERED ON STORM/WATERLINE PIPE CROSSING AND MEASURED ALONG THE SANITARY MAINLINE OR SERVICE LATERAL.
NOTES:

ALL PUBLIC MANHOLES (CITY OF WESTERVILLE - SANITARY SEWER, STORM SEWER, ELECTRIC & COMMUNICATION) AND ALL PRIVATE MANHOLES (PRIVATE UTILITY COMPANIES) LOCATED WITHIN A PUBLIC STREET/PAVEMENT SHALL FOLLOW THIS STANDARD CONSTRUCTION DRAWING.

ALL MANHOLES (PUBLIC & PRIVATE) SHALL MEET OR EXCEED THE LATEST CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR ITEM 604 WITH THE FOLLOWING EXCEPTIONS OR ADDITIONS:

ADJUSTMENT TO GRADE SHALL BE ACCOMPLISHED BY CAREFULLY REMOVING THE EXISTING COVER OR GRATE AND FURNISH AND INSTALL POLYPROPYLENE GRADE RING(S) PRO-RING HEAVY DUTY, ASTM-D3575 PER CITY OF WESTERVILLE STANDARD DRAWING SS-03 OR PRECAST CONCRETE RINGS. NINE (9) INCHES IS THE MAXIMUM ALLOWABLE HEIGHT OF STACKING RINGS.

BRICK AND BLOCK MASONRY ARE NOT PERMITTED ON ANY MANHOLES INCLUDING RECONSTRUCTION TO GRADE AND OR ADJUSTMENT TO GRADE.

WHEN MANHOLES ARE BEING RAISED OR LOWERED MORE THAN 9 INCHES THEY SHALL BE RECONSTRUCTED TO GRADE. RECONSTRUCTION SHALL CONSIST OF THE CAREFUL REMOVAL AND CLEANING OF EXISTING CASTINGS; THE REMOVAL OF EXISTING WALLS DOWN TO THE SPRING LINE OR BELOW AS NECESSARY FOR MANHOLES AND RECONSTRUCTION TO THE NEW GRADES, CONFORMING AS NEARLY AS PRACTICAL TO THE EXISTING DIMENSIONS AND TYPE OF CONSTRUCTION, USING THE SALVAGED CASTINGS AS DIRECTED BY THE CITY.
WRAPIDSEAL MANHOLE ENCAPSULATION SYSTEM (OR APPROVED EQUAL)

SANITARY SEALING LID WITH FRAME USING STANDARD OR MODIFIED HEIGHT

MAXIMUM 18" USING ANY COMBINATION OF POLYPROPYLENE GRADE RING(S) THICKNESS WITH STANDARD OR MODIFIED FRAME HEIGHT

POLYPROPYLENE GRADE RING(S) (PRO-RING HEAVY DUTY, ASTM-D3575 OR APPROVED EQUAL)

SEE NOTE 2 BELOW

SEE NOTE 3 BELOW

ALL OTHER DIMENSIONS AND SPECIFICATIONS ARE THE SAME AS CITY OF COLUMBUS Specs FOR SANITARY MANHOLES.

NOTES:

1. CLEAN EACH SURFACE BY WIRE BRUSHING ALL LOOSE CONCRETE DUST AND DIRT. PLACE SEALANT IN A CIRCULAR CONFIGURATION ON EACH CONCRETE SURFACE AND OVERLAP A MINIMUM 1/4" AND KNEAD ENDS.

2. CLEAN BELL AND SPIGOT, APPLY APPROVED LUBRICATION TO JOINT SURFACE AND TO O-RING; THEN EQUALIZE GASKET TO GROOVE.

3. PLACE 1/2" DIAMETER SEALANT AS MANUFACTURED BY CONCRETE SEALANTS INC., "CONCEAL" OR APPROVED EQUAL ON RISER TO LEDGE.
NOTES:

ALL ROOF DRAIN/SUMP PUMP PIPE SHALL BE SCHEDULE 40 SOLID WALL (NON-PERFORATED) PIPE WITHIN THE RIGHT OF WAY (R/W)

TYPICAL RESIDENTIAL TYPE CONNECTIONS SHALL BE 3" IN DIAMETER

THE CONNECTION AT THE CURB SHALL BE CORE DRILLED

PIPE SLOPE SHALL BE 0.5% MINIMUM TOWARDS STREET

ROOF DRAIN/SUMP PUMP PIPE SHALL BE PRIVATELY OWNED AND MAINTAINED INCLUDING WITHIN THE RIGHT OF WAY.
FIRE HYDRANT PER CITY OF WESTERVILLE SPECIFICATION 12809

SPECIFICATIONS OF A FIRE HYDRANT SHALL BE PER THE CITY OF WESTERVILLE SPECIFICATION SECTION 12809, FURNISHING AND INSTALLING FIRE HYDRANTS.

ALL FIRE HYDRANTS SHALL BE SELF DRAINING FIRE HYDRANTS.

ALL OTHER SPECIFICATION AND DIMENSIONS SHALL BE PER CITY OF COLUMBUS STANDARD DRAWINGS L-6637A AND OR L-6409A
A HEAVY DUTY FRAME AND COVER SHALL BE USED IN PAVEMENT AREAS ON THE CURB BOX ON ALL WATER SERVICES 2-INCH AND SMALLER. A FERRULE BOX WILL NOT BE PERMITTED. HEAVY DUTY FRAME AND COVER BY GENERAL FOUNDRIES INC., SIGMA CORPORATION OR AN APPROVED EQUAL.