CAMPUS DESIGN STANDARDS
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BENCH INSTALLED ON CONCRETE PAD
SCALE: 1/2" - 1'-0"
Plan:
- 3/16" X 12" Aluminum edging along perimeter color-black
- Bench ( Typical )
- Orient pavers as shown to sidewalk or direction of travel
- Belgian block ( 4" x 4" x 9" approximate )

Section:
- Stonedust joints ( maximum 1/2" )
- 3/16" X 12" Black aluminum edging along perimeter
- Bench ( Dumor 118-60 Residential style shown )
- Direct burial ( S-1 )
- 1/2" x 18" lag bolt
- Belgian block ( 4" x 4" x 9" approximate )
- Finish Grade
- 2" deep sand setting bed
- 4" concrete base
- 8" compacted granular fill

Bench installed on pavers
- Scale: 1/2" - 1'-0"
BIKE RACK INSTALLED ON CONCRETE

SCALE: 1/2" - 1'-0"

Bike Rack BRP model #: LL-02-PF Raven
BIKE RACK INSTALLED ON PAVERS

SCALE: 1/2" - 1'-0"

Bike Rack BRP model #: LL-02-PF Raven
NOTE:
ROAD CENTERLINE PAVEMENT MARKINGS SHALL CONSIST OF ONE SINGLE WHITE STRIPE

WHITE PAVEMENT STRIPING

CROSSWALK
NO SCALE
NOTCH ENDS OF EACH RAIL TO MEET END OF NEXT RAIL

CENTER PLUG AND BOLT

TRIM RAIL AS REQ'D TO ABUT POST WHEN ALIGNMENT IS ANGLED IN PLAN VIEW

ELEVATION

8" X 8" WOOD POST. POSTS 8' ON CENTER SET PLUMB. NOTCH POSTS AS REQ'D FOR RAIL SPLICES.

EASE EDGE

WOOD PLUG SET WITH EPOXY GLUE

4" X 10" WOOD GUARDRAIL BOLTED BOLTED TO POSTS WITH 1/2" CHAMFER TOP AND BOTTOM. BOLTS SHALL BE 1" DIA. X 14" LONG GALV. LAG BOLTS, COUNTERSUNK. RAIL TO BE PARALLEL TO FINISH GRADE

SURFACE MATERIAL VARIES

4,000 PSI CONCRETE FOOTING. SLOPE TOP AWAY FROM POST

COMPACTED OR UNDISTURBED SUBGRADE

SECTION

Wood Guardrail

WOOD GUARDRAIL
SCALE: 1/2" - 1'-0"
SECTION A-A
LIGHT POST FOOTING FOR SPRING CITY POLE

EXTERIOR POLE LIGHTS
SCALE: 1/2" - 1'-0"
MAXIFORCE Collapsible Bollard
Standard body, wrench operated, standard style 1
head, simple base
AHD approved for use in fire lanes per International
Fire Code (IFC) 503

Patented break-away design allows for instant
evacuation access without a key. Unit can be
pushed over with the bumper of a vehicle.

Flush surface when bollard is removed.
Leaves no tripping hazard and won’t catch
snow plows or other maintenance
equipment.

Bollard supplied by MaxiForce Traffic Control Bollards
7560 Main Street
Sykesville, MD 21784
410.552.9888
www.maxiforcebollards.com

Bollard - MCSW-SS1-S-PC w/150 insert
Color: Black (w/reflective black tape)
PROVIDE FINIAL IN OLD QUAD AREAS, SQUARE CAP ALL OTHER AREAS

48" FENCE POST, SPACED 28"O.C., 24" ABOVE GRADE
CONCRETE SIDEWALK

*NOTES:
POST: 48" BOSTON GARDEN CAST ALUMINUM POST MODEL # 5200-48P
CHAIN: HOT DIPPED GALVANIZED HEAVY DUTY LANDSCAPE CHAIN (1/4") MODEL # 3429-21P
POST & CHAIN TO RECEIVE POLYESTER POWDERCOAT FINISH, COLOR: BLACK AS MANUFACTURED BY SNUG COTTAGE IMPORTS, PORT HURON, MI 800-637-5427, OR APPROVED EQUAL

COMPACTED OR UNDISTURBED SUBGRADE

SECTION

Finial treatment in old Quad areas

Bollards with black chain

PEDESTRIAN BOLLARD
SCALE: 1/2" - 1'-0"
2" WIDE BLACK REFLECTIVE TAPE FURNISHED
BY: STREETGLO REFLECTIVE DECALS
2415 LAFAYETTE BLVD.
NORFOLK, VA 23323
WWW.STREETGLO.NET
WHERE BOLLARDS ARE INSTALLED AT
DUMPSTER LOCATIONS, PROVIDE WHITE
REFLECTIVE TAPE

IDEAL SHIELD BUMPER POST SLEEVE;
2" THICKNESS; 6" DIAMETER; COLOR: BLACK
MODEL #: DP-D-BLACK-06-xx-S
WWW.IDEALSHIELD.COM

6" OUTSIDE DIAMETER HOT-DIP
GALVANIZED SCHEDULE 40 STEEL
PIPE. EXTEND PIPE 48" BELOW GRADE
IN CONCRETE FOOTING; FILL WITH
4,000 PSI CONCRETE

FINISH GRADE

COMPACTED GRANULAR FILL
18" DIAMETER SONOTUBE FORM
4,000 PSI CONCRETE FOOTING

NOTES:
1. BOLLARD HEIGHT AT DUMPSTERS
   SHALL BE 48". ALL OTHER AREAS
   SHALL BE 36".
2. BOLLARD DIAMETER AT
   DUMPSTERS SHALL BE 6" OUTSIDE
   DIAMETER. ALL OTHER AREAS
   SHALL BE 6" OUTSIDE DIAMETER.

Bollard with black reflective tape

ELEVATION
3" SQUARE STEEL TUBE POSTS
W/CAP @ 6' ON CENTER
COLOR: BLACK
STAINLESS STEEL HARDWARE

ECLIPSE 100
POWDER-COATED
ALUMINUM
PANEL
COLOR:
BLACK

NOTES:
1. INSTALL PANELS HORIZONTALLY.
2. FENCE HEIGHT: 6 FEET
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. PANELS, POSTS AND HARDWARE BY:

AMETCO MANUFACTURING CORPORATION
4326 HAMANN PARKWAY
P.O. BOX 1210
WILLOUGHBY, OHIO 44096
800.321.7042
WWW.AMETCO.COM

5. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
**NOTES:**
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS.
2. ALL LUMBER TO BE NORTHERN WHITE CEDAR, SMOOTH SAWN TO THE DIMENSIONS SHOWN.
3. ALL NAILS TO BE ALUMINUM SCREW NAILS.
4. ALL HARDWARE TO BE HOT DIP GALVANIZED.
5. STEP FENCE AT POSTS FOR CHANGES IN GRADE, RAILS TO BE LEVEL ACROSS.
6. ALL FENCE POSTS SHALL BE GALVANIZED AND PAINTED TO MATCH COLOR OF WOOD PANELS.
7. SHIP LAP BOARDS TO BE FREE OF CRACKS WITH MINIMUM OF KNOTS.
8. FENCE TO BE SOLID STAIN, FLAT BLACK.
FLAT CAPSTONE PIECES TO BE FULL WIDTH OF WALL; LENGTH AND THICKNESS VARY; PITCH TO DRAIN AWAY FROM PAVING

ANGULAR CUT FACE STONE VENEER

RAKE MORTAR 1" FROM FACE, OR GREATER, SUCH THAT NO MORTAR WILL SHOW

RANDOM HORIZONTALLY LAID FIELDSTONE MORTARED IN PLACE. ALL EXPOSED STONES SHALL BE TOP QUALITY. LARGER STONES ON THE BOTTOM

PROVIDE LEDGE FLUSH WITH SURROUNDING GRADE WHEN WALL ABUTS LAWN AREA

FINISH GRADE (NON-LAWNS)

4,000 PSI REINFORCED CONCRETE FOOTING

COMPACTED GRAVEL BORROW

COMPACTED UNDISTURBED SOIL

SECTION

MOWING LEDGE WHERE WALL ABUTS LAWN

3" THICK FLAT CAPSTONE PIECES TO BE FULL WIDTH OF WALL

PLAN

MORTAR TO BE RAKED BACK 1" FROM WALL FACES OR GREATER, SO THAT NO MORTAR SHALL SHOW; LENGTH AND THICKNESS OF CAPSTONES VARY

3" CAP

ELEVATION

FIELDSTONE VENEER SEATWALL (NORTH DISTRICT AREAS)

SCALE: 1/2" - 1'-0"
FIELDSTONE SEATWALL  (OLD QUAD & RESIDENTIAL AREAS)
SCALE: 1/2" - 1'-0"

SECTION

COMPACTED GRAVEL BORROW
COMPACTED UNDISTURBED SOIL

MOWING LEDGE WHERE WALL ABUTS LAWN
FLAT CAPSTONE PIECES TO BE FULL WIDTH OF CAP

FLAT CAPSTONE PIECES TO BE FULL WIDTH OF WALL, LENGTH AND THICKNESS VARIES, PITCH TO DRAIN
RAKE MORTAR 1" FROM FACE, OR GREATER, SUCH THAT NO MORTAR WILL SHOW
RANDOM HORIZONTALLY LAID FIELDSTONE MORTARED IN PLACE. ALL EXPOSED STONES SHALL BE TOP QUALITY. LARGER STONES ON THE BOTTOM
PROVIDE LEDGE FLUSH WITH SURROUNDING GRADE WHEN WALL ABUTS LAWN AREA
FINISH GRADE (NON-LAWNS)
4,000 PSI REINFORCED CONCRETE FOOTING

Example of character of stone wall

PLAN

ELEVATION

MORTAR TO BE RAKED BACK 1" FROM WALL FACES OR GREATER, SO THAT NO MORTAR SHALL SHOW; LENGTH AND THICKNESS OF CAPSTONES VARY
CURB RAMP TYPE 'A'

CURB RAMP TYPE 'B'

Tactile warning paver at intersection Type 'A'

Close-up of selected color

TACTILE WARNING PAVERS
NO SCALE
NOTE:
CONTRACTOR SHALL USE
CAUTION WITH TREE STAPLES SO
NOT TO BE DRIVEN INTO
SUBGRADE PIPES AND UTILITIES

DO NOT CUT LEADER

REMOVE DEAD AND
BROKEN BRANCHES
ONLY

3" BARK MULCH. MULCH
SHOULD NOT BE WITHIN 4"
OF TREE TRUNK

PLANTING BED 2X
WIDER (MIN.) THAN
ROOTBALL. BACKFILL
W/LOAM

TREE
STABILIZATION
(SEE DETAIL)

INSTALL TREE PLUMB

TRUNK FLARE & TOP OF ROOTBALL
SHOULD BE AT GRADE

CUT AND REMOVE TOP 50% OF
BURLAP & WIRE BASKET FROM
TOPS AND SIDES OF ROOTBALL

EXCAVATE SUBSOIL AS REQUIRED TO
PLACE ROOTBALL TO PROPER
ELEVATION. PLACE ROOTBALL
DIRECTLY ON COMPACTED OR
UNDISTURBED SUBSOIL.
DUMPSTERS

Trash Dumpster to be painted semi-gloss gray to match ICI #586 "Mansard Stone." No signage permitted on dumpsters.

Cardboard Dumpster to be painted semi-gloss gray to match ICI #586 "Mansard Stone" with black lettering on white background indicating "CARDBOARD ONLY".

SECURITY CALL STATIONS

Field paint black gloss.

CHAIN LINK FENCING

Field paint black gloss or black vinyl-coated galvanized steel.
FIRE HYDRANTS & POST INDICATOR VALVES

Field paint with Rust-oleum "Fire Hydrant Red" color.

FIRE ESCAPE STAIRS

Field paint black gloss.

ELECTRICAL EQUIPMENT & TRANSFORMERS

Units 5 feet or less in any direction to be black. Larger units to be green or gray (to be determined based upon technical and aesthetic considerations.) Evergreen landscaping to screen larger units.

FIRE HYDRANTS & PIV'S, FIRE ESCAPE STAIRS & ELECTRICAL EQUIPMENT

NO SCALE
EXISTING TREE

VARIES

VARIES

CHAIN LINK FENCE OUTSIDE OF CRITICAL ROOTING AREA OF TREE OR DRIPLINE OF TREE

NOTE:
DO NOT STORE ANY MACHINERY OR MATERIALS WITHIN AREA OF THE FENCE. DO NOT DISCARD CONSTRUCTION MATERIALS OR SLURRY WITHIN WATERSHED OF TREES.

CALCULATE "CRITICAL ROOTING AREA" AS 2.5 x TREE DIAMETER IN INCHES-DIAMETER OF ROOTING AREA IN FEET, OR THE DRIPLINE OF THE TREE (WHICHERVER IS GREATER.) WHERE FEASIBLE, GROUPS OF TREES SHOULD BE ENCLOSED TOGETHER.

ELEVATION

CRITICAL ROOTING AREA OF TREE OR DRIPLINE OF TREE

PLAN

CRITICAL ROOTING AREA OF TREE OR DRIPLINE OF TREE

TREE TRUNK

VARIES

6 FOOT HIGH CHAIN LINK FENCE STAKED 5 FEET ON CENTER MAX. WITH PRESESSED METAL STAKES. HAND EXCAVATE WITHIN THIS ZONE. REMOVAL ONLY UPON APPROVAL OF LANDSCAPE ARCHITECT.

5" MAX SPACING

TREE PROTECTION CONSTRUCTION AREAS
NO SCALE
SECTION

PARKING AREA POLE LIGHTS
NO SCALE

LIGHT FIXTURE (KIM 'ARCHETYPE' SAR)
COLOR: BLACK

CONCRETE PAVEMENT

LIGHT POLE (KIM PRA ROUND ALUMINUM NON-TAPERED POLE)
COLOR: BLACK - POLE DIAMETER DETERMINED BY POLE HEIGHT

BASE COVER
THREAD ANCHOR RODS

LIGHT POLE FOOTING
COMPACTED GRAVEL BORROW
UNDISTURBED SUBGRADE

KIM 'ARCHETYPE' SAR FIXTURE

NO SCALE
TRASH & RECYCLING CONTAINERS

Trash Receptacles:
Victor Stanley, Inc. Ironsides Bethesda Model SD42 36 gallon capacity; color gloss black. Sign band on outer ring.

Recycling Receptacles:
Victor Stanley, Inc. Ironsides Bethesda Model SD42 36 gallon capacity; color gloss black with green and blue rims to indicate recyclables. Blue color sign band on outside ring.

RECYCLING TOTES

Master Cart
Model #60204
95 US gal/360L

ASH URNS
NOTE: WHEN ALIGNING RAMP WITH EXISTING WALKS THAT ARE WIDER THAN THE REQUIRED MINIMUM, INCREASE RAMP WIDTH TO MATCH WIDTH OF EXISTING WALK.

IF ALIGNING WITH EXISTING WALKS THAT ARE NARROWER THAN THE REQUIRED MINIMUM, CONTACT CP&D OFFICE TO COORDINATE MERGING OF WALKS WITH RAMP.

SECTION/ELEVATION

1-1/2" DIA. STEEL TUBE HANDRAIL, SCHEDULE 40, TYP.

2" SQ. STEEL TUBE POST, SCHEDULE 40 TUBE W/WELDED SQUARE FINIAL CAP, TYP.

PROVIDE 1/4" WEEP HOLES AT BOTTOM OF POST TOP W/SEALANT

2" DIA. CORE DRILL HOLE SET HANDRAIL 6" INTO CONCRETE AND FILL VOID W/ NON-SHRINK GROUT

FINISH GRADE

COMPACTED GRAVEL FILL EXPANSION JOINT, TYP.

COMPACTED OR UNDISTURBED GRADE

RAMP HANDRAIL
SCALE: 1/2" - 1'-0"
3" SQUARE STEEL TUBE POSTS W/CAP @ 6' ON CENTER
COLOR: BLACK
STAINLESS STEEL HARDWARE

ECLIPSE 100
POWDER-COATED
ALUMINUM
PANEL
COLOR:
BLACK

NOTES:
1. INSTALL PANELS HORIZONTALLY.
2. FENCE HEIGHT: VARIES ACCORDING TO EQUIPMENT HEIGHT.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. PANELS, POSTS AND HARDWARE BY:
   AMETCO MANUFACTURING CORPORATION
   4326 HAMANN PARKWAY
   P.O. BOX 1210
   WILLOUGHBY, OHIO 44096
   800.321.7042
   WWW.AMETCO.COM
5. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
DEDICATION & WAYFINDING PLAQUE
SCALE: 1/2" - 1'-0"