CHANNEL INSTALLATION APLICACIONES PARA CANALES

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (3D CM) OF RECP'S EXTENDED BEYOND THE UP—SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (3D CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMAPCT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (3D CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S DVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (3D CM) ACROSS THE WIDTH OF THE RECP'S.

ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4" - 6" (1D CM -15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (1D CM) APART AND 4" (1D CM) ON CENTER TO SECURE RECP'S.

5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (3D CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 3D TO 4D FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (1D CM) APART AND 4" (1D CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.

8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (3D CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

(See Stormwater Treatment Feature Detail Sheet for Installation Location)

EROSION CONTROL BLANKETS AND TURF

REINFORCEMENT MATTRESS CHANNEL INSTALLATION

\* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

\*\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

REV. 01/05

SECTION 1-1

SECTION 2-2

ENGINEERING DEPARTMENT O'FALLON, MISSOURI

BACKING BLOCK

DETAILS AND LOCATIONS

CITY OF O'FALLON

ENGINEERING DEPARTMENT

O'FALLON, MISSOURI

WATER AND SEWER

SEPARATION DETAIL

NOTE:
\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM -12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.

INTERNAL WATER PRESSURE 6" through 12"=200 psi

WATER MAIN

SANITARY SEWER

18" MIN. FROM TOP OF

BOTTOM OF WATER MAIN

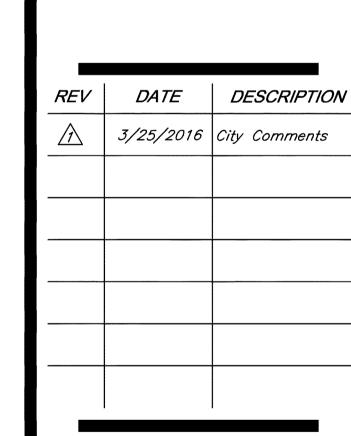
SANITARY SEWER TO

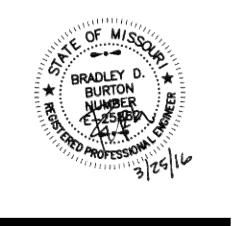
ROSION CONTROL Products

Guaranteed SOLUTIONS

14649 HIGHWAY 41 NORTH EVANSVILLE, IN 47725 800-772-2040

www.nagreen.cam





PROJECT NUMBER 13326.00 03/25/16

CONSTRUCTION DOCUMENTS

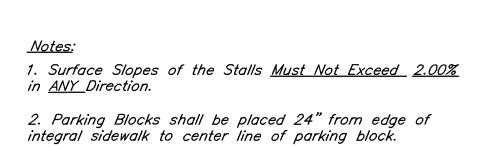
DESIGNED: HTR/JWM/JRH DRAWN: HTR/JWM/JRH REVIEWED: HTR/BDB SHEET TITLE

Construction Details

SHEET NUMBER

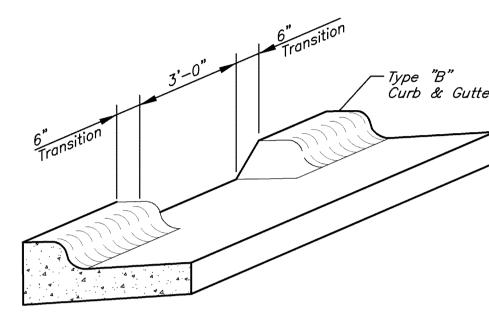
Engineering COA# 000133

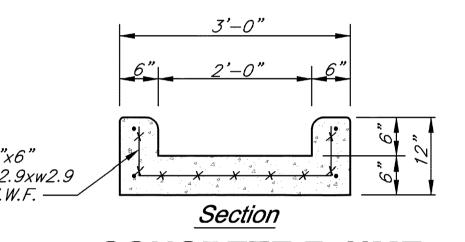
C10.1 © George Butler Associates, Inc. 2016 Architecture COA# 000212 Land Surveying COA# 000059



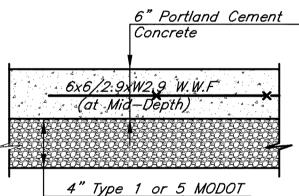
## 2. Supplemental Accessible Sign (R7— 8a) shall be used on all required Van Accessible Spaces. Detectable Warnings at Top of Ramp Ramp up w/ 1:12 Slope (Max.) & textured One accessible parking sign per space ———bottom of sign to be 5' Min. above ground. 3. Signs shall be blue with white lettering. non-skid surface 4. Provide Fine Legend of \$50-\$300 on sign. RESERVED PARKING Detectable Warnings at Bottom of Ramp Ramp up w/ 1:12 -----Slope (Max.) & textured non-skid surface VAN accessibl

HANDICAP PARKING RAMP DETAIL

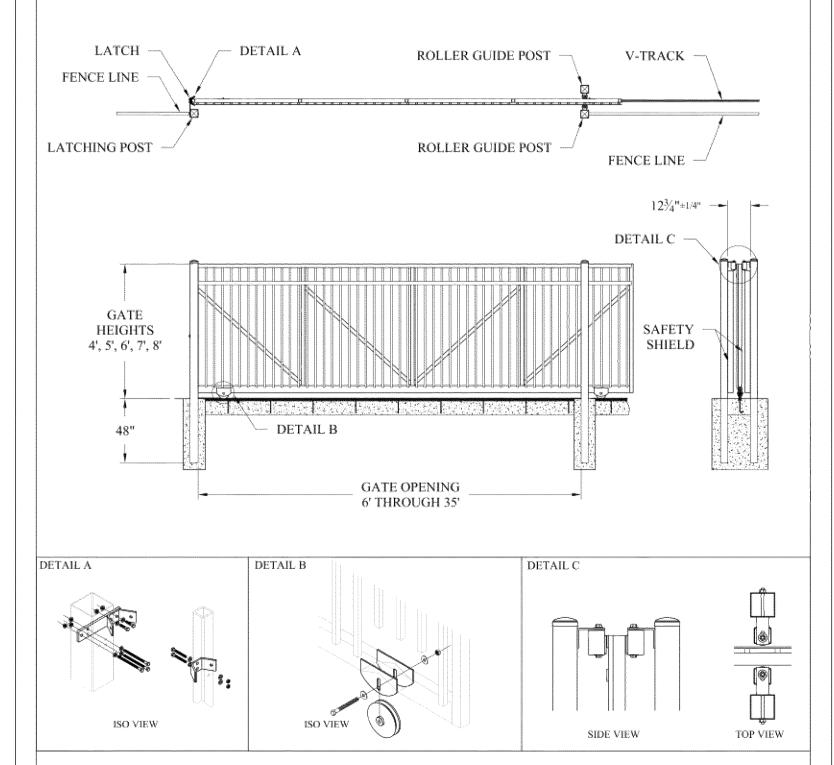


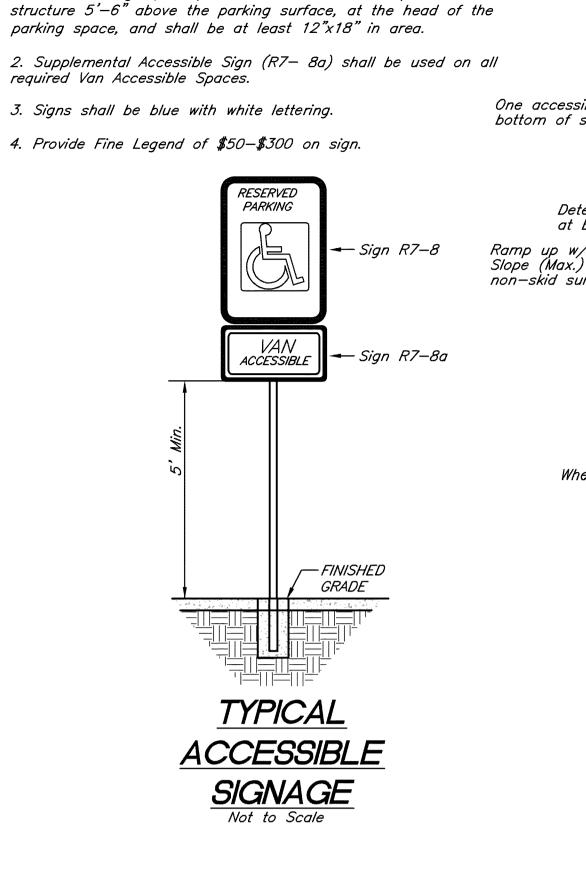


## **CONCRETE FLUME**



Aggregate Base





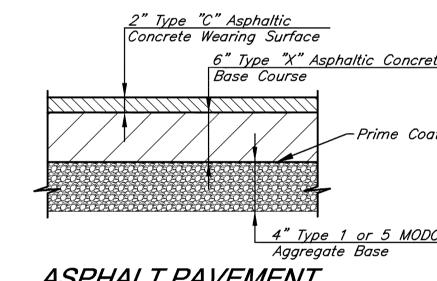
1. Accessible Sign (R7-8) Shall be mounted on a pole or other

## Pavement Notes:

1. Refer to geotechnical report "O'Fallon Justice Center O'Fallon Missouri" dated September 2015 by SCI Engineering INC for all paving, excavation and compaction recommendations. 2. All Woven Wire Fabric (W.W.F.) Reinforcement shall be WWF mats,

not rolled, and placed on chairs

to ensure placement in center of Contractor shall submit mix design to the Engineer prior to any concrete flatwork placement.



6" Type "X" Asphaltic Concrete ASPHALT PAVEMENT

NOT TO SCALE

- 1½" *MONTAGE PLUS* "Rail -

—Post 2½" ⊠ x 14ga Varies With Height Standard Heights With Height ー 掲"図 14ga Picket 2" Nom. Bracket Options 36" Min. Footing Depth 1.) Post size depends on fence height and wind loads. See MONTAGE PLUS\*\* specifications for post sizing chart. Forth rail optional. 3.) 7' & 8' Heights will require a 14ga Picket and 14ga Post. RAKING DIRECTIONAL ARROW ---Welded panel can be raked 30" over 8' with arrow pointing down MONTAGE PLUS™ RAIL 17/4" PROFUSION \*\*WELDING PROCESS --No exposed welds. Good Neighbor profile - Same MONTAGE PLUS RAIL appearance on both sides Specially formed high strength E-COAT COATING SYSTEM Base Material Uniform Zinc Coating Zinc Phosphate Coating --Epoxy Primer —

Ornamental Pickets: 1" Square

Top Rail(s), Uprights and Diagonals Braces: 2"Square x 11Ga. Bottom Rail: 2" x 4" x 11Ga. (Notched &Plated for V-track Wheels) Roll Gate Hardware: Kit #PGKOD Available in Profiles of 2-Rail, 3-Rail & 3-Rail w/Rings

PASSPORT II MAJESTIC INDUSTRIAL ROLL GATE AMERISTAR® DWN: NJB SH. 1of 1 SCALE: DO NOT SCALE ECR: 0412-02 Date: 06/17/13

1-888-333-3422 www.ameristarfence.com

SANITARY SEWER 10' MIN. BETWEEN SANITARY SEWER AND WATER MAIN WATER MAIN HORIZONTAL DISTANCE TYPICAL WATER AND SEWER

BENDS "B" "C" "D" "E" "F"

6"-11 1/4' 8" 15" 12" 24" 10" 6"-22 1/2' 8" 19" 12" 24" 13" 6"-45' 8" 30" 12" 24" 15" 6"-90' 8" 30" 12" 24" 28"

8"-11 1/4' 8" 2D" 12" 24" 1D" 8"-22 1/2' 8" 22" 12" 24" 18" 8"-45' 8" 31" 12" 24" 24" 8"-90' 8" 38" 12" 24" 36"

12"-11 1/4" 8" 30" 12" 24" 15"

16"-11 1/4" TL 28" 20" 24" 28"

16"-22 1/2" TL 39" 2D" 24" 39"

| 2D"-11 1/4° | TL | 34" | 24" | 26" | 28

20"-22 1/2' TL 48" 24" 26" 39' 20"-45' TL 74" 24" 26" 55' 20"-90' TL 136" 24" 26" 60'

24"-11 1/4° | TL | 4D" | 28" | 28" | 4D'

24"-22 1/2" TL 56" 28" 28" 56" 24"-45" TL 101" 28" 28" 60" 24"-90" TL 186" 28" 28" 60"

30"-11 1/4" TL 49" 34" 3D" 49"

30"-22 1/2" TL 79" 34" 30" 60" 30"-45" TL 154" 34" 30" 60" 30"-90" TL 285" 34" 30" 60"

8"X8"X8" |12"|27"|24"|2 12"X12"X6" | 12" | 24" | 24" | 18"

24"X24"X16" 16" 53" 28" 53"

. 2"& 4" FITTINGS EQUIVALENT TO 6"

2. TAPPING SLEEVES TO HAVE BACKING BLOCKS SAME SIZE AS REQUIRED FOR

3. "TL" = TOTAL LENGTH OF FITTING MINUS CLEARANCE FOR BELLS.

Ductile Iron Pipe installation shall follow the Ductile Iron Research Association (DIPRA) guide line.

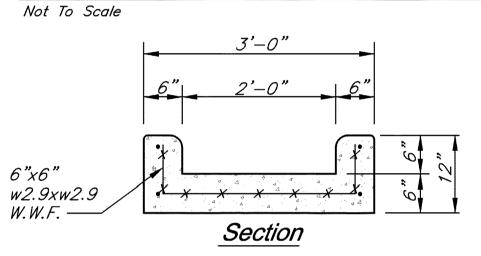
The Installation of PVC Pipe shall follow the Uni-Bell PVC Pipe Association Handbook of PVC Design and Construction.

SEPARATION

NOT TO SCALE

Wheelstop

## TYPICAL CURB CUT DETAIL



Not To Scale

TYPICAL PAVEMENT SECTIONS

HEAVY DUTY CONCRETE PAVEMENT NOT TO SCALE

PassPort II<sup>®</sup> Industrial Ornamental Roll Gate

TOP OF GROUND-SIGN SHALL BE 0.080 GAUGE ALUMINUM COVERED WITH 3-M RED ENGINEERING GRADE RED DIAMOND REFLECTIVE SHEETING OR EQUIVALENT.

- 3" RED REFLECTOR SYMMETRICALLY RIVETED TO SIGN FACE (TYP.)

2. POST SHALL BE 1 3/4" SQUARE 14 GAUGE BREAKAWAY POST. 3. POSTS SHALL BE SPACED EVENLY AT A MAXIMUM OF 6' APART AND CENTERED PERPENDICULAR TO THE ROADWAY. 4. HARDWARE SHALL BE ZINC PLATED COMMON GRADE. HEX BOLT 5/16"x 2 1/2"x 2", FLAT WASHER, NYLON WASHER, LOCK WASHER, AND NUT TO BE COMPATIBLE WITH THE HEX BOL.

END OF ROAD MARKER

ALL LETTER, NUMBER AND SYMBOL SIZES, SPACING, COLORS, AND THE SIGN COLORS SHALL CONFORM TO THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

Acrylic Topcoat -

CK: BS Date 09/21/11

CONTRACTION JOINT

**EXPANSION JOINT** 

ALLOW CLEARANCE / FOR GATE SWING

POST SUPPORT OPTIONS:

REMODERAGE

USE (2) PIECES OF 1/2 HERMIT IN OURSE.

LATCH AND END POSTS. POSTTON REBAR
IN DPPOSING CORNERS OF EACH POST WITH

FEATURING

WINDZONE™

PERFORMANCE

R=1/4"—

D = Depth of Sidewalk

- 3/4" non-extruding filler

— 6"x6"-W1.4xW1.4 WWF

Compacted Subgrade 6" Thick to 95%

INTEGRAL CONCRETE SIDEWALK / CURB

2. Joint spacing 4'-0" center to center or width of sidewalk.

Privacy Fence

Includes: Chesterfield

HOLD TOP HALLS BL POST DUTH LOCK RING

POST HOLES

EMBEDMENT DETAIL FOR OPTIONAL

VELOCITY HURRICANE ZONES SECTION #44003.1.2.1 OF THE

36" 88" HVHZ and NON HVHZ

HVHZ: Miami-Dade and Broward counties wind

MODOT Sign OM4-1-

exposures as defined in the ASCE 7-10

FLORIDA BUILDING CODE

MAXIMUM POST SPACING

AND FOOTING DIMENSIONS

LINE POST STIFFENER ALUMINUM INSERT

structures, and 250' centers maximum.

4. Key all construction joints.

1. All vertical form expansion and construction joints must fall in groove.

Standard Proctor Density

3. Install 3/4" expansion joint where walk abuts junction of existing walk, concrete curb, driveways, and similar

INTEGRAL COCNRETE SIDEWALK DETAILS

Chesterfield with CertaGrain® Texture

Chesterfield with CertaStucco<sup>™</sup> Texture

COMMERCIAL STRENGTH WELDED STEEL PANEL MONTAGE COMMERCIAL MAJESTIC 3/4-RAIL DR: NJB SH. 10f 1 SCALE: DO NOT SCALE REV: d

AMERISTAR® 1555 N. Mingo Tulsa, OK 74116 1-888-333-3422

1-888-333-3422

for installation requirements.

www.ameristarfence.com

installation purposes. See product specification