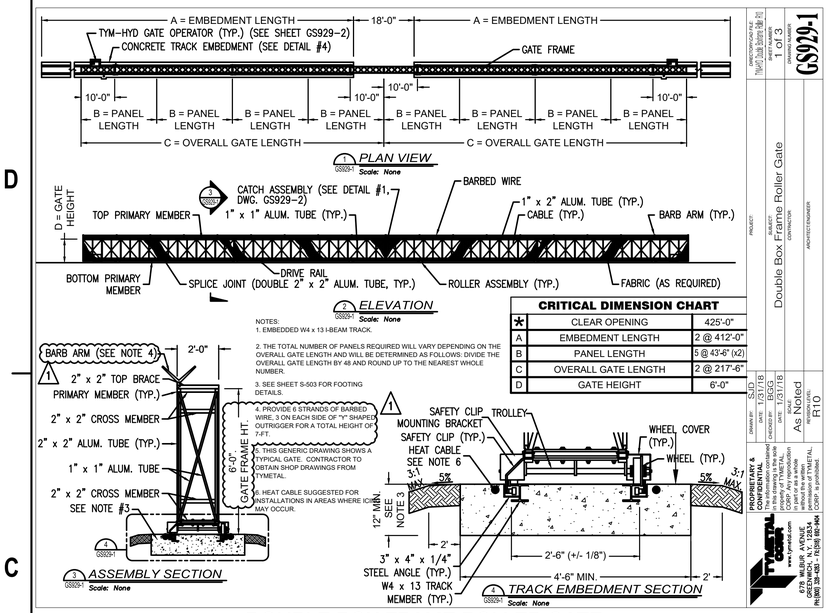
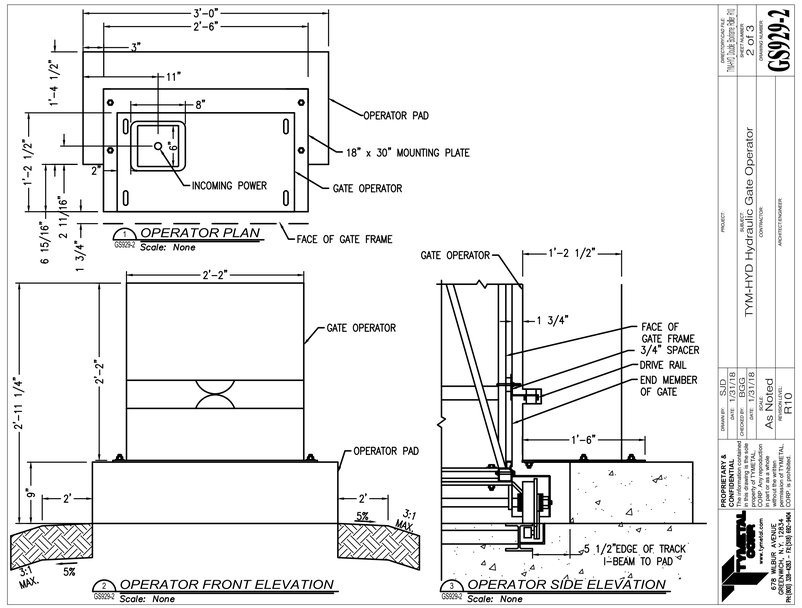


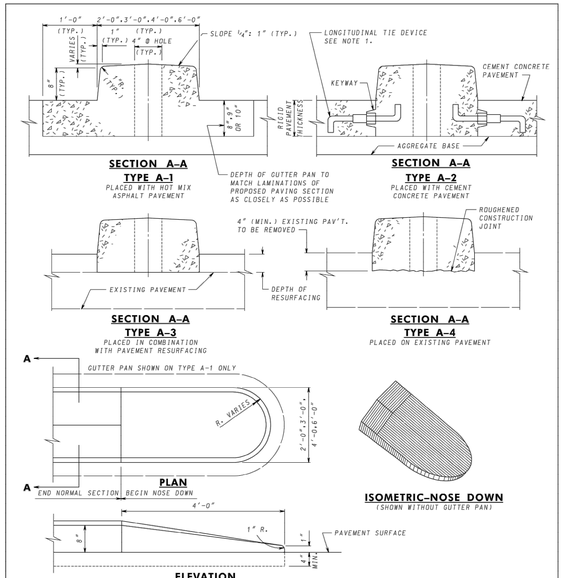
CRITICAL DIMENSION CHART		
*	CLEAR OPENING	425'-0"
A	EMBEDMENT LENGTH	2 @ 412'-0"
B	PANEL LENGTH	5 @ 43'-6" (x2)
C	OVERALL GATE LENGTH	2 @ 217'-6"
D	GATE HEIGHT	6'-0"

NOTES:
1. EMBEDDED W4 x 13 I-BEAM TRACK.
2. THE TOTAL NUMBER OF PANELS REQUIRED WILL VARY DEPENDING ON THE OVERALL GATE LENGTH AND WILL BE DETERMINED AS FOLLOWS: DIVIDE THE OVERALL GATE LENGTH BY 48 AND ROUND UP TO THE NEAREST WHOLE NUMBER.
3. SEE SHEET S-503 FOR FOOTING DETAILS.
4. PROVIDE 6 STRANDS OF BARBED WIRE, 3 ON EACH SIDE OF "I" SHAPED OUTRIGGER FOR A TOTAL HEIGHT OF 7-FT.
5. THIS GENERIC DRAWING SHOWS A TYPICAL GATE. CONTRACTOR TO OBTAIN SHOP DRAWINGS FROM TYMETAL.
6. HEAT CABLE SUGGESTED FOR INSTALLATIONS IN AREAS WHERE ICING MAY OCCUR.

DOUBLE BOX FRAME ROLLER GATE
CS-503 C1



GATE OPERATOR
CS-503 C3



NOTES

1. UNLESS OTHERWISE SPECIFIED LONGITUDINAL TIE BAR DEVICE, TYPE 'A' OR TYPE 'B', PLACED AT MIDDLE OF KEYWAY & SPACED ACCORDING TO SPECIFICATIONS FOR CONCRETE PAVEMENT SHALL BE USED AT CONSTRUCTION JOINT BETWEEN MONOLITHIC CONCRETE MEDIAN (OR GUTTER PAN) AND CONCRETE PAVEMENT. SEE STANDARD MD 572.61.
2. JOINT SPACING WILL BE A MAXIMUM OF 10'-0" APART. SEE SPECIFICATIONS FOR LOCATION AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED. CONCRETE PAVEMENT. JOINTS SHALL MATCH PAVEMENT JOINTS.
3. ALLOW 4" Ø HOLES IN MEDIAN FOR SIGNS. SPACED AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

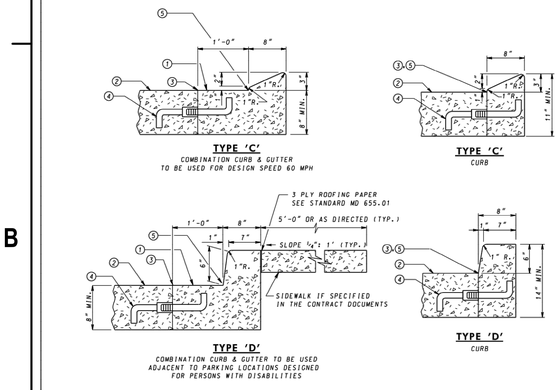
SPECIFICATION	CATEGORY CODE ITEMS
602	

APPROVED: Kirk G. McCall, DIRECTOR – OFFICE OF HIGHWAY DEVELOPMENT

APPROVAL • SHA REVISIONS		APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL	3-15-83	APPROVAL	4-1-83
REVISED	11-08-06	REVISED	10-25-06
REVISED		REVISED	
REVISED		REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD MONOLITHIC CONCRETE MEDIAN TYPE 'A'
STANDARD NO. MD 645.01

MD SHA ST'D.645.01 CONCRETE MEDIAN
CS-503 C5



① SLOPE GUTTER PAN ½" PER FOOT TOWARD FLOW LINE ON ALL ROADWAYS INCLUDING SUPERELEVATED SECTIONS, EXCEPT INTERCHANGE RAMPS.
② ROADWAY PAVEMENT SLOPE.
③ ROADWAY PAVEMENT CONSTRUCTION JOINT.
④ PROVIDE LONGITUDINAL TIE DEVICE "J" BAR MODIFIED. REFER TO STANDARD NO MD 572.61.
⑤ FLOW LINE.

NOTES

A. RIGID PAVEMENT ROADWAY ADJACENT TO COMBINATION CURB AND GUTTER AND CLOSED SECTION ROADWAY USING RIGID PAVEMENT WITH COMBINATION CURB AND GUTTER SHALL BE TIED AT THE ROADWAY PAVEMENT CONSTRUCTION JOINT. REFER TO STANDARD MD 572.61 FOR METHOD OF LONGITUDINAL TIE DEVICES. SPACING OF THE TIE BARS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. RIGID PAVEMENT AND CURB SHALL BE CONSTRUCTED AS INDICATED. TIE DEVICES ARE NOT REQUIRED WHEN USING FLEXIBLE PAVEMENT FOR ROADWAY.
B. MAXIMUM JOINT SPACING FOR CONCRETE CURB AND COMBINATION CURB & GUTTER IS 10'. SEE SPECIFICATION FOR LOCATIONS AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED.
C. TYPE C OR D COMBINATION CURB AND GUTTER SHALL BE USED FOR ALL APPLICABLE NEW CONSTRUCTION AND IN THOSE AREAS WHERE THE COMBINATION CURB AND GUTTER IS TO BE REPLACED IN KIND.
D. TYPE C OR D CURB SHALL BE USED FOR THE REPLACEMENT OF LIKE KIND OF CURB ONLY. NOT TO BE USED FOR NEW CONSTRUCTION EXCEPT WHERE INDICATED ON APPROPRIATE INLET STANDARDS.

SPECIFICATION	CATEGORY CODE ITEMS
602	

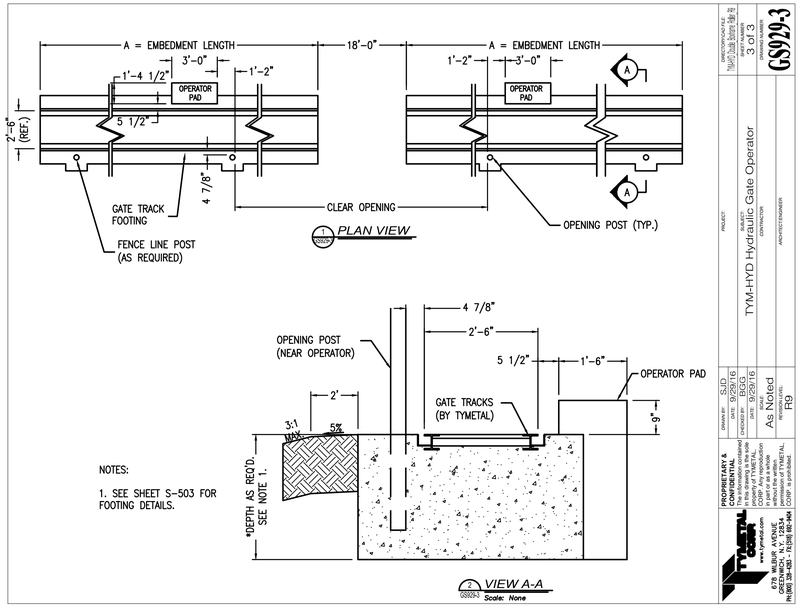
APPROVED: DIRECTOR – OFFICE OF HIGHWAY DEVELOPMENT

APPROVAL • SHA REVISIONS		APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL	2-10-04	APPROVAL	3-31-04
REVISED	2-25-16	REVISED	2-23-16
REVISED		REVISED	
REVISED		REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD TYPES C AND D CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
STANDARD NO. MD 620.02-01

2 OF 2

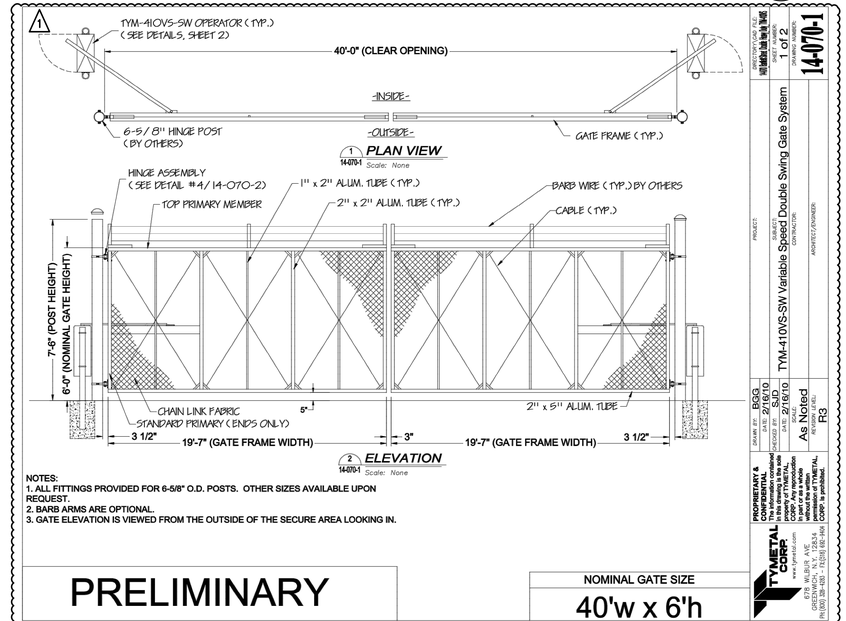
MD SHA ST'D.620.02 TYPE D CURB AND GUTTER
CS-503 C7



NOTES:

1. SEE SHEET S-503 FOR FOOTING DETAILS.

ROLLER GATE FOOTING WITH RAILS
CS-503 A1



NOTES:
1. ALL FITTINGS PROVIDED FOR 6-5/8" O.D. POSTS. OTHER SIZES AVAILABLE UPON REQUEST.
2. BARB ARMS ARE OPTIONAL.
3. GATE ELEVATION IS VIEWED FROM THE OUTSIDE OF THE SECURE AREA LOOKING IN.

PRELIMINARY

NOMINAL GATE SIZE
40'w x 6'h

MOTORIZED SWING GATE
CS-503 A3

NO	SYM	DESCRIPTION	DATE	APPR
1	A	AMENDMENT 0001	04/01/2023	
0		ISSUE FOR CONSTRUCTION	09/26/2022	

NAVFAC

STATE OF MARYLAND — Keith Matthew Wilson — 09/26/2022 — PROFESSIONAL ENGINEER — SEAL

Wiley|Wilson | BURNS MCDONNELL JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES | DRW | CHK
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
WASHINGTON NAVY YARD
MDE NO. 21-SF-0064
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
WASHINGTON, DC
JOINT BASE ANDREWS NAVAL AIR FACILITY
CAMP SPRINGS, MD
P-3002 RELOCATE HAZARDOUS CARGO PAD AND EOD PROFICIENCY RANGE
SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1396650
CONSTR. CONTR. NO. N40080-22-R-8580
NAVFAC DRAWING NO. 13140338
SHEET 68 OF 229
CS-503

DRAWFORM REVISION: 06 APRIL 2017