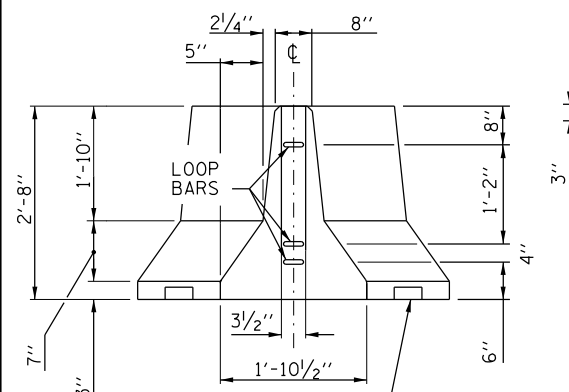
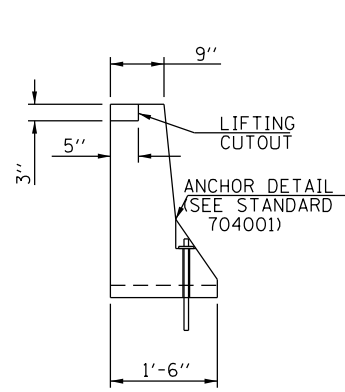


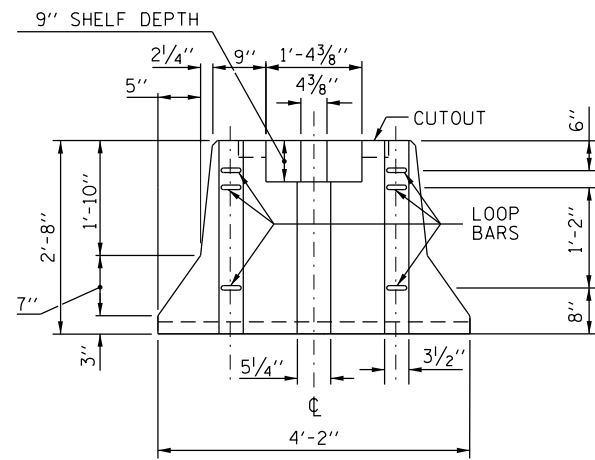
PLAN



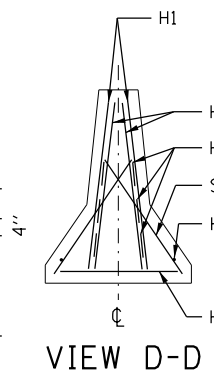
VIEW A-A



SECTION B-B

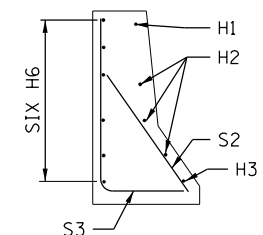


VIEW C-C



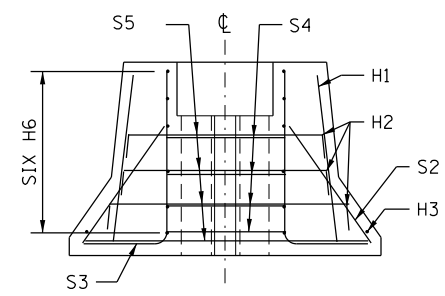
VIEW D-D

REINFORCING PLAN VIEW



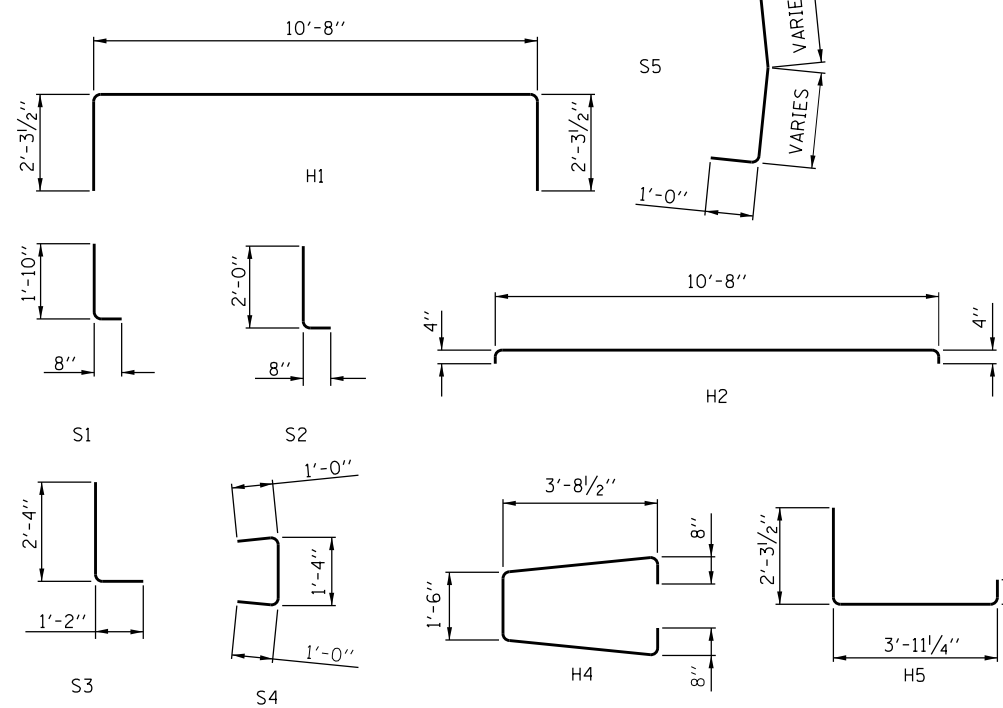
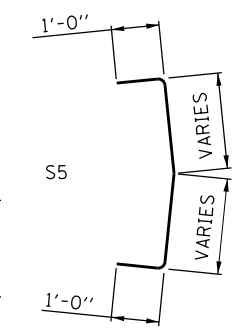
SECTION E-E

REINFORCING DETAILS



VIEW F-F

REINFORCING BAR LIST				
BAR	SIZE	LENGTH	SHAPE	QUANT.
H1	#5	15'-3"	Bent	2
H2	#5	11'-4"	Bent	6
H3	#5	10'-8"	Str.	2
H4	#4	10'-3"	Bent	1
H5	#5	6'-10"	Bent	2
H6	#5	10'-4"	Str.	12
S1	#5	2'-6"	Bent	2
S2	#4	2'-8"	Bent	10
S3	#4	3'-6"	Bent	10
S4	#5	3'-4"	Bent	4
S5	#5	Varies	Bent	4



BENDING DIAGRAMS

NOTES:

GENERAL: THIS BARRIER SEGMENT IS USED TO SPLIT ONE RUN OF TEMPORARY CONCRETE BARRIER (TCB) INTO DUAL RUNS. ATTACH DIRECTLY TO IDOT'S 2'-8" TCB. ATTACH AT LEAST ONE STANDARD TCB SEGMENT IN BETWEEN THIS "Y" AND AN IMPACT ATTENUATOR. DO NOT USE THIS BARRIER IN AN UNANCHORED CONFIGURATION. ANCHOR ACCORDING TO METHOD SHOWN ON THIS DRAWING. THIS BARRIER SHALL BE MARKED WITH "ILLINOIS F SHAPE", THE PRODUCER'S MARK, AND THE DATE OF MANUFACTURE. THE MARKINGS SHALL BE INDENTED ON THE BARRIER OR PAINTED THEREON WITH WATERPROOF PAINT/INK. THIS SHEET TO BE USED IN CONJUNCTION WITH STANDARD 704001 FOR TCB, "F" SHAPE DESIGN.

BARRIER DETAILS: USE IDOT STANDARD 704001 FOR DETAILS NOT SHOWN HERE, INCLUDING THE GEOMETRY OF THIS PIN AND LOOP SEGMENT MATCHES IN EVERY WAY THE DESIGN OF THE END CONNECTIONS. ADDITIONALLY, BARRIER EDGES MAY BE CHAMFERED 1" ON ALL EDGES (OPTIONAL). DELINEATED PER STANDARD 704001.

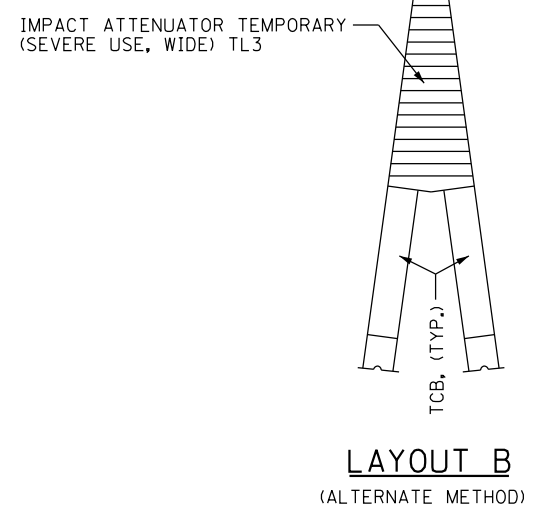
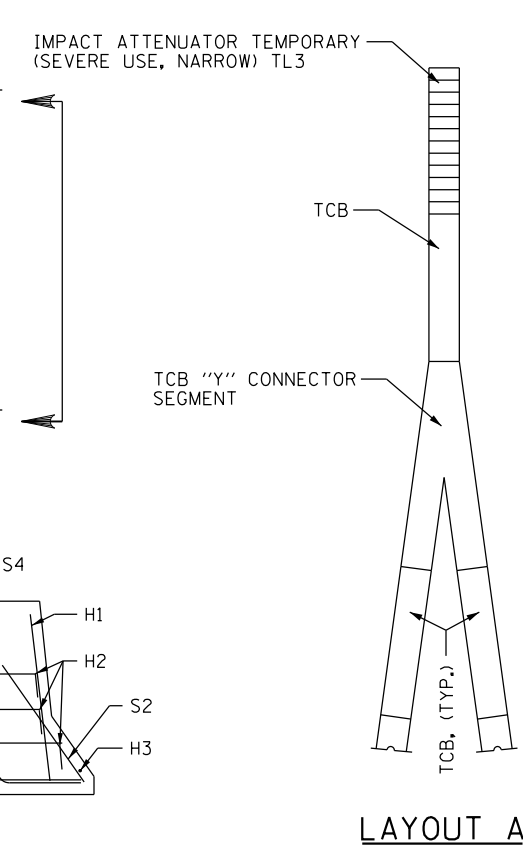
MATERIAL SPECIFICATIONS: TEMPORARY CONCRETE BARRIER SHALL BE CLASS PC CONCRETE ACCORDING TO SECTION 1020 OF THE STANDARD SPECIFICATIONS WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, AND SHALL BE ACCORDING TO ARTICLES 1042.03(C), (D) AND (E) OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL BE GRADE 60 AND SHALL CONFORM TO SECTION 1006.10(A) OF THE STANDARD SPECIFICATIONS. CONNECTING PINS AND ANCHORING PINS SHALL CONFORM TO ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS AND CONNECTING LOOPBARS SHALL BE SMOOTH BARS ACCORDING TO THE REQUIREMENTS OF ASTM A 36. PACKAGED RAPID HARDENING MORTAR OR CONCRETE USED TO REFILL ANCHORING HOLES AFTER REMOVAL SHALL CONTAIN SECTION 1018 OF THE STANDARD SPECIFICATIONS.

HANDLING: THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF A LIFTING SYSTEM FOR HANDLING SEGMENTS. AS A MINIMUM, USE THREE LIFTING POINTS AT THE LOCATIONS SUGGESTED IN THE PLAN VIEWS, AND DESIGN WITH A LIFTING FACTOR OF SAFETY OF 4. ANY PROTRUSIONS FROM THE LIFTING HOOK DESIGN IS NOT TO AFFECT THE CRASH WORTHINESS OF THE BARRIER. THE CALCULATIONS SHALL BE SIGNED, SEALED AND DATED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS AND INCLUDE THESE CALCULATIONS WITH THE MANUFACTURING DRAWINGS. APPROXIMATE SEGMENT WEIGHT IS 8,500 LBS.

ALTERNATE METHOD: CONTRACTOR MAY CHOOSE TO USE AN IMPACT ATTENUATOR, TEMPORARY (SEVERE USE, WIDE) IN LIEU OF THE TCB "Y" CONNECTOR.

NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.



M-MOT-700



TEMPORARY CONCRETE BARRIER "Y" CONNECTOR SEGMENT

DATE 3-01-2018