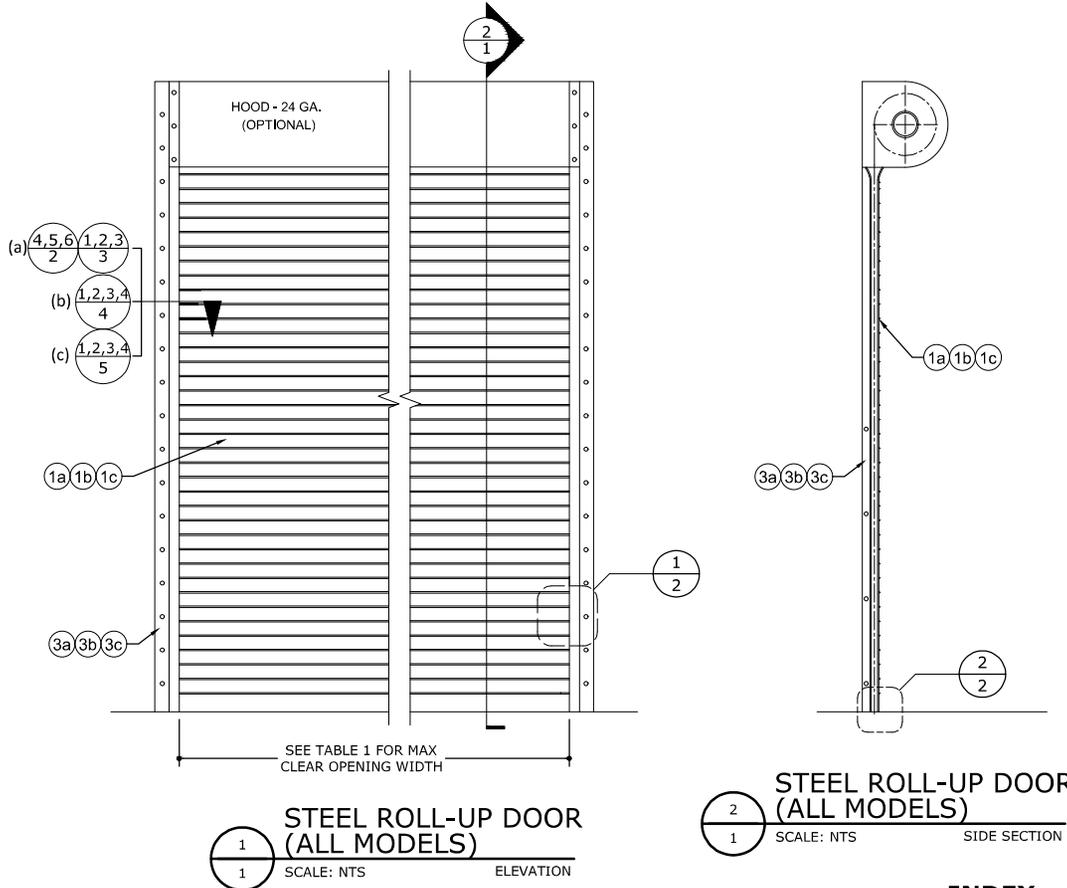


BEST ROLLING DOORS, INC.

STEEL ROLL-UP DOORS MODELS S10-6065, S10-6565 & S10-100 LARGE MISSILE IMPACT / HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.



STEEL ROLL-UP DOOR (ALL MODELS)
SCALE: NTS
ELEVATION

STEEL ROLL-UP DOOR (ALL MODELS)
SCALE: NTS
SIDE SECTION

TABLE 1: MAXIMUM ALLOWABLE PRESSURE AND CLEAR OPENING WIDTH

MODEL #	MAXIMUM CLEAR OPENING WIDTH	MAXIMUM ALLOWABLE PRESSURE
(a) S10-6065	24'-1 1/2"	+60psf / -65psf
(b) S10-6565	30'-4 1/2"	+65psf / -65psf
(c) S10-100	30'-4 1/2"	+100psf / -100psf

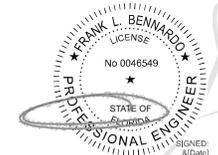
INDEX SHEET # | DESCRIPTION

- COVER SHEET
 - 2-5. CONNECTION DETAILS
 6. SYSTEM COMPONENTS
- 6 TOTAL SHEETS

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT ENGINEERINGEXPRESS.COM/QUOTE FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885



Digitally signed by
Frank Bennardo
Date: 2023.11.03
17:11:40 -04'00'

GENERAL NOTES:

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) FOR USE INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201, 202, AND 203 STANDARDS. SEE PRODUCT EVALUATION REPORT FOR MORE INFORMATION.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN (TABLE 1) FOR ANY ASSEMBLY AS SHOWN.
- ALLOWABLE DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT. THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL.
- SLATS TO BE A.S.T.M. A-653 GR 50 STRUCTURAL QUALITY STEEL WITH MIN. Fy = 50 KSI AND G-90 GALVANIZING PER A.S.T.M. A-653, OR A.I.S.I. 304 SERIES STAINLESS STEEL MANUFACTURED WITH A MINIMUM YIELD STRENGTH OF Fy = 50 KSI.
- WINDLOCKS SHALL BE 11 GA PLATED STEEL, A.S.T.M. A-1011
- ALL ASSEMBLY BOLTS TO BE S.A.E. GRADE 2 CADMIUM PLATED OR GALVANIZED STEEL.
- ALL RIVETS TO BE A.I.S.I. 1035 STEEL, CADMIUM PLATED, STAINLESS STEEL OR ZINC PLATED W/ Fy= 37,000 PSI.
- INSULATION MATERIAL SHALL BE EPS-EXPANDED POLYSTYRENE INSULATION MANUFACTURED BY DYPLAST PRODUCTS LLC COMPANY, MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE # 17-1207.05 OR LATEST VERSION.
- DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL. DOOR IMPACTED ON BOTH SIDES.
- GUIDE DETAILS CAN BE USED IN ANY COMBINATION.
- ROLL-UP MECHANISM AND HOOD ASSEMBLY ARE NOT PART OF THIS APPROVAL.
- THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS OUTLINED HEREIN.
- UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO INSULATE DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- WATERPROOFING IS NOT PART OF THIS CERTIFICATION AND SHALL BE CERTIFIED BY OTHERS.

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Phn. (305) 698-3550

STEEL ROLL-UP DOORS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL# 10706.1)

REMARKS	DATE	DRWN	CHKD
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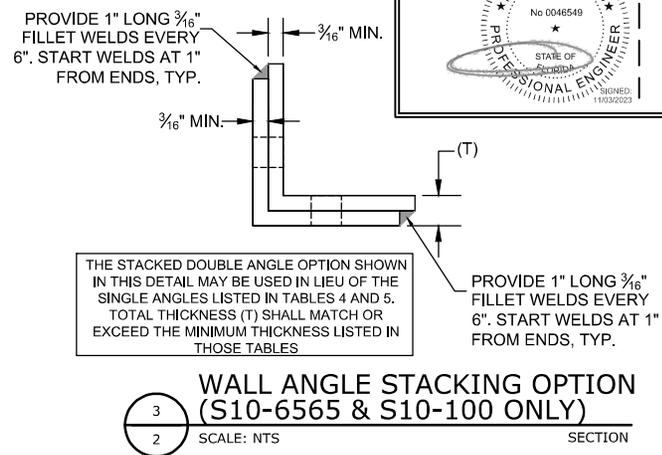
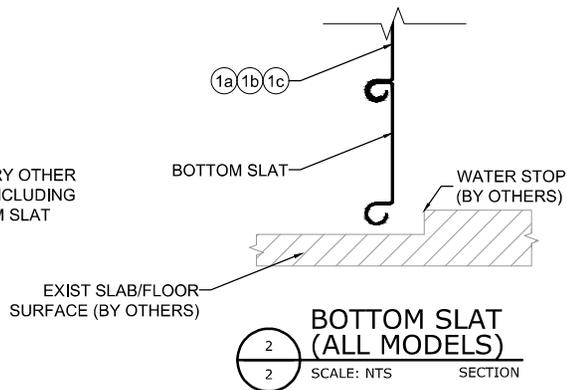
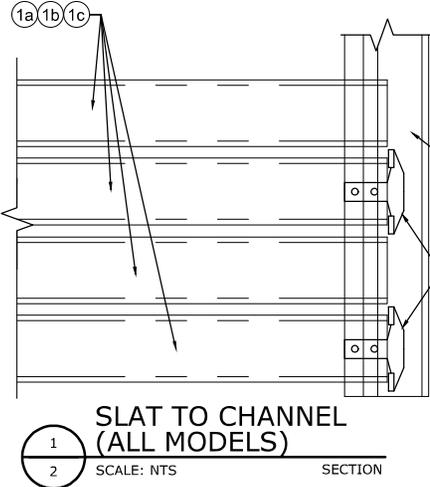
1 OF 6

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 PE# 0046549 CA# 9885

FRANK L. BENNARDO
 LICENSE No 0046549
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 SIGNED: 1/13/2023

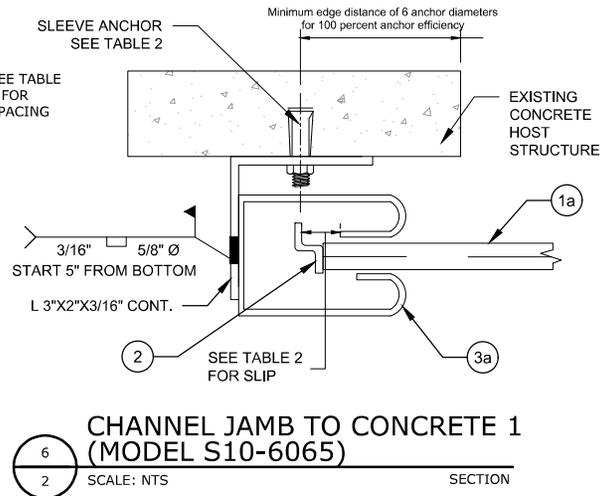
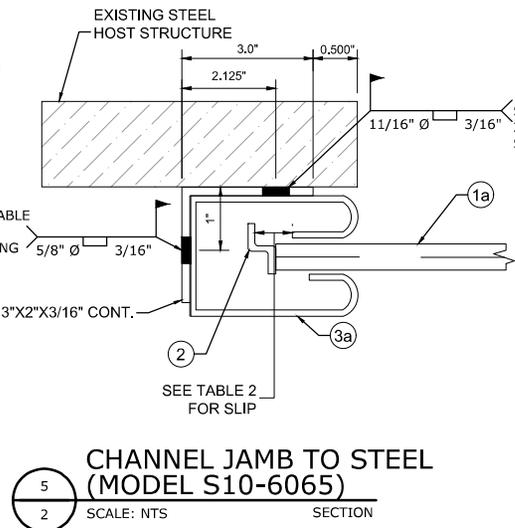
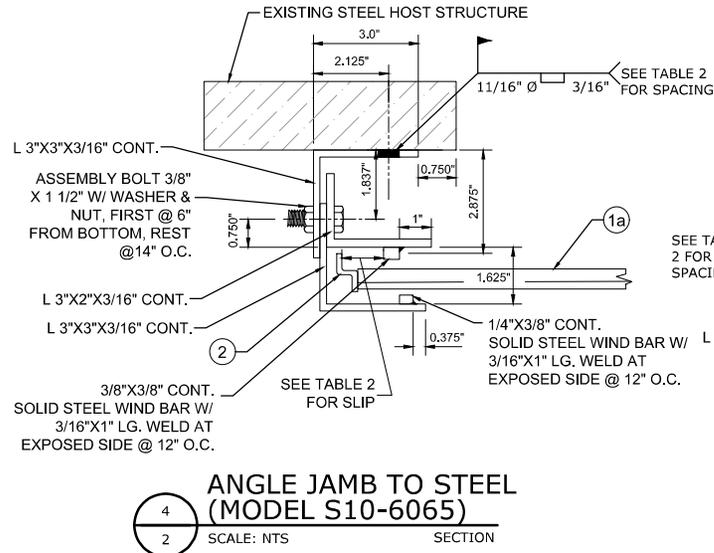
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**JAMB CONNECTIONS
 MODEL #S10-6065**



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STEEL ROLL-UP DOORS

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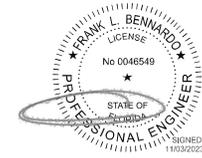
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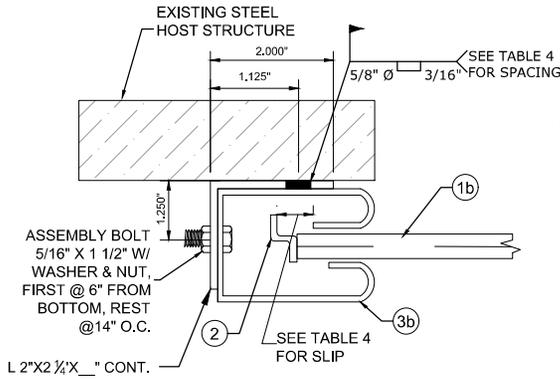
JAMB CONNECTIONS MODEL #S10-6565

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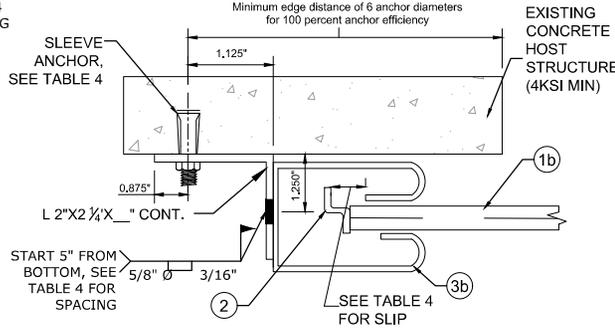
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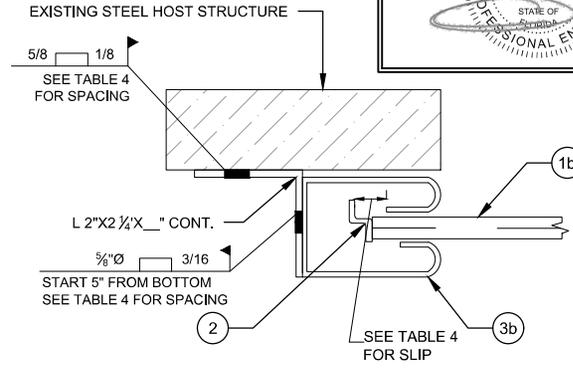
**CHANNEL JAMB TO STEEL 1
(MODEL S10-6565)**

SCALE: NTS SECTION



**CHANNEL JAMB TO CONCRETE
(MODEL S10-6565)**

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**CHANNEL JAMB TO STEEL 2
(MODEL S10-6565)**

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TABLE 4: MODEL #S10-6565 JAMB CONNECTIONS

DOOR OPENING WIDTH	SLIP EACH END	ANCHORS TO CONCRETE JAMB fc= 4000 psi		FIELD WELD TO STEEL JAMB Based on a minimum wall angle thickness: 3/16"		WALL ANGLE THICKNESS Gr50 Fy = 50 ksi, see detail 3/2 for angle stacking options	
		WALL ANGLE TO JAMB		CHANNEL GUIDE		CHANNEL GUIDE	
		HILTI Kwik Bolt 3 or Dynabolt Sleeve Anchor *	PLUG WELD WALL ANGLE TO JAMB	PLUG WELD CHANNEL TO WALL ANGLE	E-GUIDE STEEL JAMB	Z-GUIDE CONCRETE JAMB	
		dia. x embedment x spacing					
30'-4-1/2"	1.50	5/8" x 4" @ 6-1/2" o.c.	5/8" dia. x 3/16" @ 6-1/2" o.c.	5/8" dia. x 3/16" @ 10" o.c.	3/8"	3/8"	
25'-0"	1.50	5/8" x 4" @ 9-1/2" o.c.	5/8" dia. x 3/16" @ 8" o.c.	5/8" dia. x 3/16" @ 12" o.c.	5/16"	5/16"	
20'-0"	1.50	5/8" x 4" @ 13-1/2" o.c.	5/8" dia. x 3/16" @ 12" o.c.	5/8" dia. x 3/16" @ 14" o.c.	1/4"	1/4"	
16'-0"	1.00	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	1/4"	1/4"	
14'-0"	0.75	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"	
12'-0"	0.50	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"	
8'-0"	0.25	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"	
4'-0"	0.50	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"	

* FIRST AND LAST ANCHOR SHALL BE 7" MAXIMUM FROM END OF ANGLE

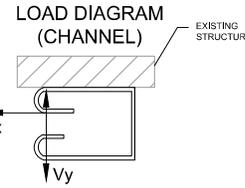
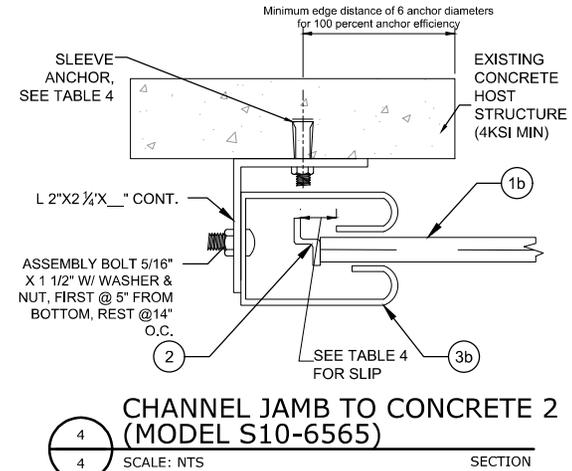


TABLE 5: MODEL #S10-6565 JAMB REACTIONS

Design Wind Load (psf)	Opening Width	Design Slip	Vx (lb/ft)	Vy (lb/ft)
+50 / -50	12'-0"	1/2"	1213	302
	16'-0"	1"	1459	402
	20'-0"	1 1/2"	1739	502
	25'-0"	1 1/2"	2501	627
+55 / -55	30'-4 1/2"	1 1/2"	3389	761
	12'-0"	1/2"	1362	332
	16'-0"	1"	1620	442
	20'-0"	1 1/2"	1923	552
+60 / -60	25'-0"	1 1/2"	2758	690
	30'-4 1/2"	1 1/2"	3732	838
	12'-0"	1/2"	1510	362
	16'-0"	1"	1782	483
+65 / -65	20'-0"	1 1/2"	2106	603
	25'-0"	1 1/2"	3014	752
	30'-4 1/2"	1 1/2"	4075	914
	12'-0"	1/2"	1659	393
	16'-0"	1"	1943	523
	20'-0"	1 1/2"	2290	653
	25'-0"	1 1/2"	3271	815
	30'-4 1/2"	1 1/2"	4418	990



**CHANNEL JAMB TO CONCRETE 2
(MODEL S10-6565)**

SCALE: NTS SECTION

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REMARKS

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