## PARALLEL ARCHITECTURAL PRODUCTS TYPICAL SLIDING GATE DETAILS

<b>DRAWING</b>	LIS	<u>LATEST REVISION</u>	<u>DATE</u>
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ARCHITECTURAL PRODUCTS

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CJS

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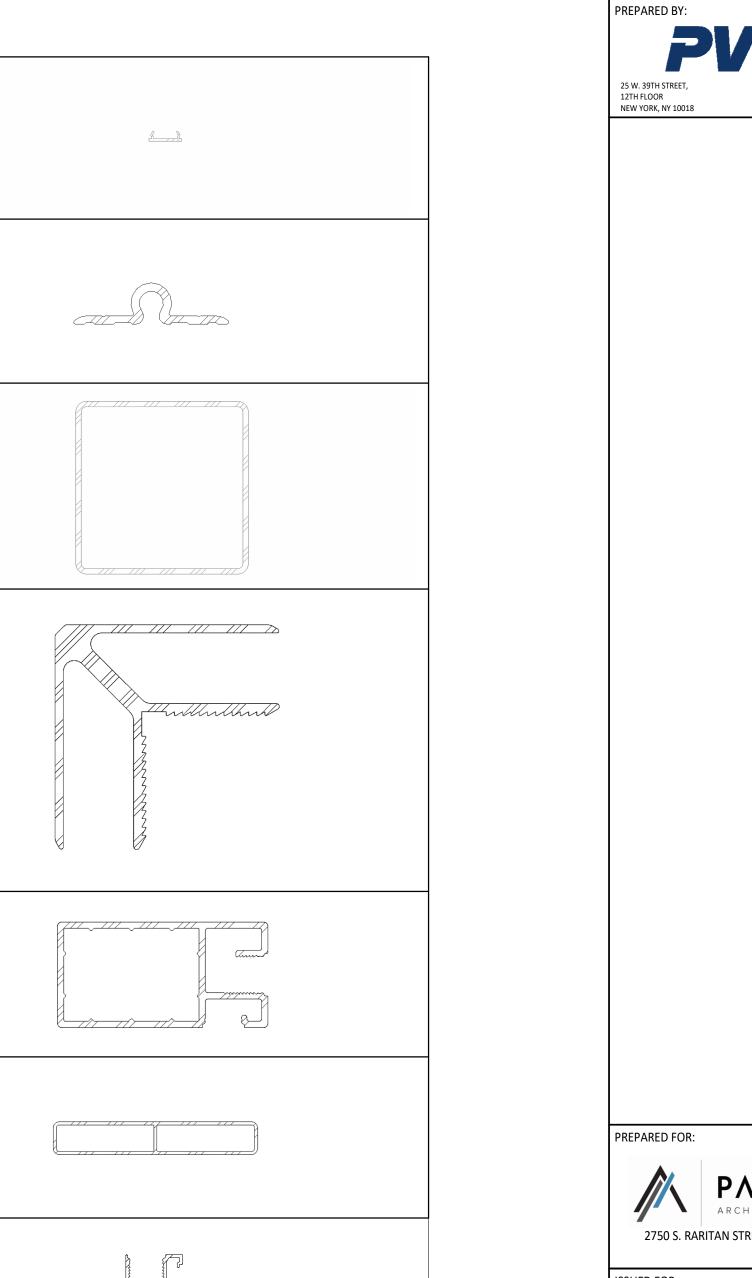
## **GENERAL NOTES: ABBREVIATIONS** DRAWING REFERENCE ABOVE AMERICAN CONCRETE INSTITUTE ADDL **ADDITIONAL** CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO INSTALLATION. DO NOT SCALE OFF DRAWINGS. AIR-ENTRAINED AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALL MEMBERS SHALL BE SAW CUT IN FIELD AS REQUIRED. AMERICAN NATIONAL STANDARDS INSTITUTE APPROX APPROXIMATELY 4. NO SPLICES SHALL BE PERMITTED UNLESS INDICATED OTHERWISE ON DRAWINGS. ARCH ARCHITECTURAL ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS 5. TOUCH UP ALL SCRATCHES WITH DEALER PROVIDED COLORS TO MATCH. **ASTM** AMERICAN SOCIETY FOR TESTING & MATERIALS AMERICAN WELDING SOCIETY 6. WELDING IS NOT PERMITTED, UNLESS OTHERWISE INDICATED ON DRAWINGS. **BOTTOM OF** BUILDING 7. THE CONTENTS SHOW THE APPLICATION OF ALUMINUM FRAMING COMPONENTS ONLY. THE INSTALLING CONTRACTOR IS TO BEAM REFER TO THE PROJECT DOCUMENTS FOR ADDITIONAL REQUIREMENTS. BOTTOM **BASE PLATE** DIMENSIONS HEREIN ARE FOR ENGINEERING PURPOSES ONLY AND MUST BE REVIEWED FOR THE PURPOSE OF APPROVAL. ALL BEARING CONDITIONS ARE SUBJECT TO APPROVAL AND TO FIELD VERIFICATION PRIOR TO FABRICATION OR INSTALLATION. CANTILEVER CANT COMPLETE JOINT PENETRATION BEFORE ORDERING, FABRICATING OR ERECTING ANY MATERIAL, MAKE ANY NECESSARY SURVEYS AND MEASUREMENTS TO VERIFY CLR THAT IN PLACE WORK HAS BEEN BUILT ACCORDING TO THE CONTRACT DOCUMENTS AND ARE WITHIN ACCEPTABLE TOLERANCES. CLSM CONTROLLED LOW STRENGTH MATERIAL CMU THIS INCLUDES THE ORIGINAL BUILDINGS AND ALL ADDITIONS THERETO. NOTIFY THE A/E AND OWNER'S REPRESENTATIVES OF ANY CONCRETE MASONRY UNIT DISCREPANCIES PRIOR TO CONSTRUCTION. COLUMN CONC CONCRETE TEMPORARY BRACING OF THE SYSTEM AND SAFETY DURING CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONT CONTINUOUS TEMPORARY BRACING OF THE SYSTEM SHALL REMAIN IN PLACE UNTIL THE SYSTEM IS TOTALLY IN PLACE. CONTRACTOR SHALL COORD COORDINATE COORDINATE LOCATIONS OF TEMPORARY BRACING WITH OTHER CONTRACTORS. REFER TO DRAWINGS FOR ADDITIONAL CRITERIA. REINFORCING BAR DIAMETER DIAMETER 11. THIS SUBMITTAL IS SUBJECT TO THE REVIEW AND APPROVAL OF THE PROJECT ARCHITECT/ENGINEER OF RECORD PRIOR TO DIMENSION INSTALLATION. DETAILS DRAWING DOWELS **ALUMINUM NOTES:** EACH EACH FACE ALL STRUCTURAL ALUMINUM COMPONENTS SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE ELEVATION AND ADM-2015. **EMBEDMENT ENGINEER OF RECORD MATERIAL NOTES:** EDGE OF SLAB ALL SHAPES SHALL BE ONE OF THE FOLLOWING ALUMINUM ALLOYS AND TEMPERS: EQUAL 6063-T6 6063-T5 **EQUIPMENT** F<sub>v</sub>: 35 KSI F<sub>y</sub>: 25 KSI F<sub>v</sub>: 16 KSI **EACH WAY** F<sub>u</sub>: 30 KSI **EXISTING** F<sub>u</sub>: 38 KSI F<sub>u</sub>: 22 KSI E: 10x10<sup>3</sup> KSI E: 10x10<sup>3</sup> KSI E: 10x10<sup>3</sup> KSI EXISTING **EXPANSION** FOOT/FEET SCREWS: SELF-TAPPING METAL SCREWS (AS NOTED) - #10 MINIMUM FOOTING GALVANIZED UNLESS NOTED OTHERWISE GALVANIZE 304/316 STAINLESS STEEL OR ALUMINUM COATED WHERE NOTED AT HIGH/SALT EXPOSURE HOOK HORIZONTAL **HIGH POINT** WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM. HIGH STRENGTH **HEADED SHEAR ANCHOR** UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED INCH(ES) METALS EXCEPT 300 SERIES STAINLESS, ZINC, OR CADMIUM. **INSIDE FACE** JOINT 6. ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER KIPS (1000 POUNDS) SHALL BE PAINTED. LENGTH **POUNDS** ALUMINUM SURFACES SHALL BE PAINTED IF THEY ARE TO BE PLACED IN CONTACT WITH CONCRETE OR MASONRY UNLESS THE REINFORCEMENT BAR DEVELOPMENT LENGTH CONCRETE OR MASONRY REMAINS DRY AFTER CURING AND NO CORROSIVE ADDITIVES SUCH AS CHLORIDES ARE USED. LONG LEG (DIM) HORIZ LONG LEG (DIM) VERT ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE WITH CORROSIVE ADDITIVES SUCH AS CHLORIDES IF THE ALUMINUM IS LOW POINT ELECTRICALLY CONNECTED TO STEEL. ALUMINUM EMBEDDED IN CONCRETE SHALL BE WRAPPED WITH 10 MIL PIPE WRAP OR LIGHT WEIGHT PLASTIC TAPE. WRAP MUST PROTECT ALL ALUMINUM SURFACES FROM EXPOSURE TO CONCRETE. MAXIMUM MANUFACTURER MECHANICAL AS AN ALTERNATIVE TO THE PREVIOUS REQUIREMENTS FOR ALUMINUM IN CONTACT WITH OTHER MATERIALS, ALUMINUM SHALL MECH BE SEPARATED FROM THE MATERIALS OF THIS SECTION BY A NONPOROUS ISOLATOR COMPATIBLE WITH THE ALUMINUM AND THE MEP MECH/ELECT/PLUMBING DISSIMILAR MATERIAL. MIN MINIMUM MTL METAL 10. STEEL FASTENERS WITH A MINIMUM TENSILE ULTIMATE STRENGTH GREATER THAN 120 KSI IN THE LOAD BEARING PORTION OF THE NWT NORMAL WEIGHT SHANK SHALL NOT BE USED IN CONTACT WITH ALUMINUM. ALL FASTENERS SHALL BE LOCATED AT A SPACING THAT CONFORMS TO ON CENTER AISC STANDARD GAGE AND PITCH. OPNG OPENING 11. BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16" (U.O.N.). OPPOSITE **OUTER FACE** 12. PREDRILL ALL HOLES FOR MATERIAL THICKER THAN 3/16". PIER PARTIAL JOINT PENETRATION 13. NOMINAL DIAMETER OF UNTHREADED HOLES FOR SCREWS SHALL NOT EXCEED THE NOMINAL DIAMETER OF THE SCREWS BY MORE POUNDS PER SQUARE FOOT THAN 1/16". POUNDS PER SQUARE INCH POST-TENSION 14. THE SPACING BETWEEN SCREW CENTERS SHALL NOT BE LESS THAN 2.5 TIMES THE NOMINAL DIAMETER OF THE SCREWS. RISER REFERENCE 15. THE DISTANCE FROM THE EDGE OF A PART TO THE CENTER OF THE SCREWS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL REINFORCING OR REINFORCEMENT REINF DIAMETER OF THE SCREW. REQD REQUIRED SCHED SCHEDULE 16. WASHERS SHALL HAVE A NOMINAL DIAMETER NOT LESS THAN 5/16" AND SHALL HAVE A NOMINAL THICKNESS NOT LESS THAN SDI STEEL DECK INSTITUTE SDL SUPERIMPOSED DEAD LOAD SIM SIMILAR STEEL JOIST INSTITUTE SHORT LEG VERTICAL DIMENSION **CODES AND STANDARDS:** SLV SUPPORT OF EXCAVATION SOE THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, APPLY TO THE DESIGN AND SOG SLAB-ON-GRADE CONSTRUCTION OF THIS PROJECT WITH LATEST EDITION PER GOVERNING BUILDING CODE TO BE USED: STANDARD ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" STEEL STRUCT STRUCTURAL IBC 2018, "INTERNATIONAL BUILDING CODE" TOP OF AA ADM-2015, "ALUMINUM DESIGN MANUAL" ANSI/AISC 360-16, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" THICK AISI S100-16, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" TMS THE MASONRY SOCIETY TYPICAL UNLESS NOTED OTHERWISE UNO UON UNLESS OTHERWISE NOTED VERT VERTICAL VERIFY IN FIELD W/C WATER-CEMENTITIOUS MATERIAL RATIO **WORK POINT**

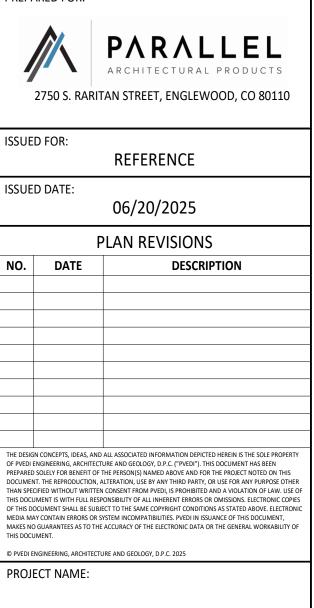
WWR

WELDED WIRE REINFORCEMENT

**TYPICAL SCREW FASTENER LEGEND:** NOTE: SCREWS SHOWN BELOW ARE TYPICAL EXAMPLES AND ALL MAY NOT BE USED IN PROJECT. CONTRACTOR MAY ELECT TO USE OTHER TYPES. SCREW MATERIAL PER THE GENERAL NOTES AND MINIMUM SCREW DIAMETER PER THE DETAILS MUST BE MAINTAINED. DRILL POINT, HEAD STYLE, AND THREAD COUNT PER INCH SHALL BE SELECTED BY THE CONTRACTOR BASED ON THE APPLICATION. #10-16X1" HEX WASHER HEAD (HWH) SELF DRILLING SCREW (5/16" HEX-HEAD) (METAL TO METAL) MANUF. PART NO. 10100HW3CS TRIANGLE FASTENER 1-800-486-1832 #10-12X1-1/2" BURR-BUSTER SELF DRILLING SCREW (5/16" HEX-HEAD) (METAL TO WOOD) MANUF. PART NO. 10150HWBB17CSTSBW **TRIANGLE FASTENER 1-800-486-1832** #10-16X5/8" BLAZER LO PROFILE PANCAKE HEAD SELF DRILLING SCREW (2/2 QUADREX DRIVE) (METAL TO METAL) MANUF. PART NO. CSSD5-#10X5/8"-PC-QX-F TRIANGLE FASTENER 1-800-486-1832 #10-13X2" GP SELF DRILLING SCREW (2/2 QUADREX DRIVE) (THIN METAL) MANUF. PART NO. 10200SPCGCSTS **TRIANGLE FASTENER 1-800-486-1832** 5/16"x1-3/4" ULTRACON+ SELF DRILLING SCREW (5/16" HEX-HEAD) (METAL TO CMU) MANUF. PART NO. DFM5ELG82 DEWALT, ELCO, & POWERS 1-800-524-3244 #12-11X1" GP SELF DRILLING SCREW (2/2 QUADREX DRIVE) (THIN METAL) MANUF. PART NO. 12100SPCGCSTS TRIANGLE FASTENER 1-800-486-1832 #12-24X1-1/2" SD5 PANCAKE HEAD SELF DRILLING SCREW (2/2 QUADREX DRIVE) (METAL TO METAL) MANUF. PART NO. CSSD5-#12X1-1/2"-PC-QX-F SFS INTECT 1-800-234-4533 #12-24X4-3/4" CONCEALOR SELF DRILLING SCREW (#3 SQUARE) (METAL THRU EPS TO METAL) MANUF. PART NO. 126750C35E TRIANGLE FASTENER 1-800-486-1832 **BUILDING LOADS:** 1. SUPERIMPOSED DEAD LOAD AND LIVE LOADS DEAD LOAD GF-L 1.83 PLF P-2WGC 1.00 PLF 0.95 PLF S-6 0.60 PLF b. LIVE LOADS DISTRIBUTED LOAD SEE SPAN TABLES CONCENTRATED LOAD SEE SPAN TABLES SNOW LOADS a. N/A - SNOW LOADS NEGLECTED WIND a. SEE LOAD TABLES FOR MAX WIND PRESSURES SEISMIC a. N/A SEISMIC LOADS NEGLECTED

**ENLARGED PART DETAILS:** G-GT (BY OTHERS) GF-CSL P-2WGC





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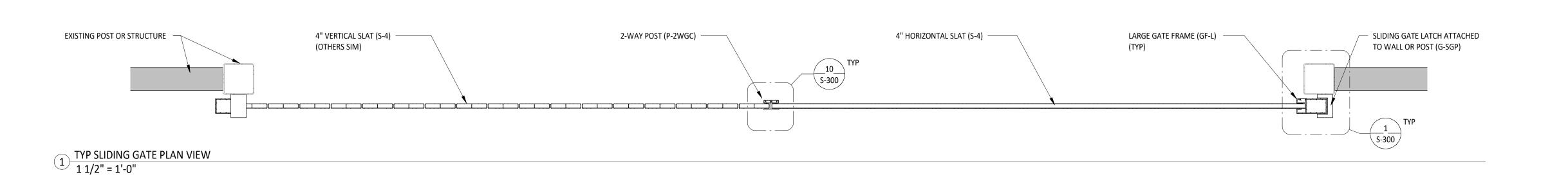
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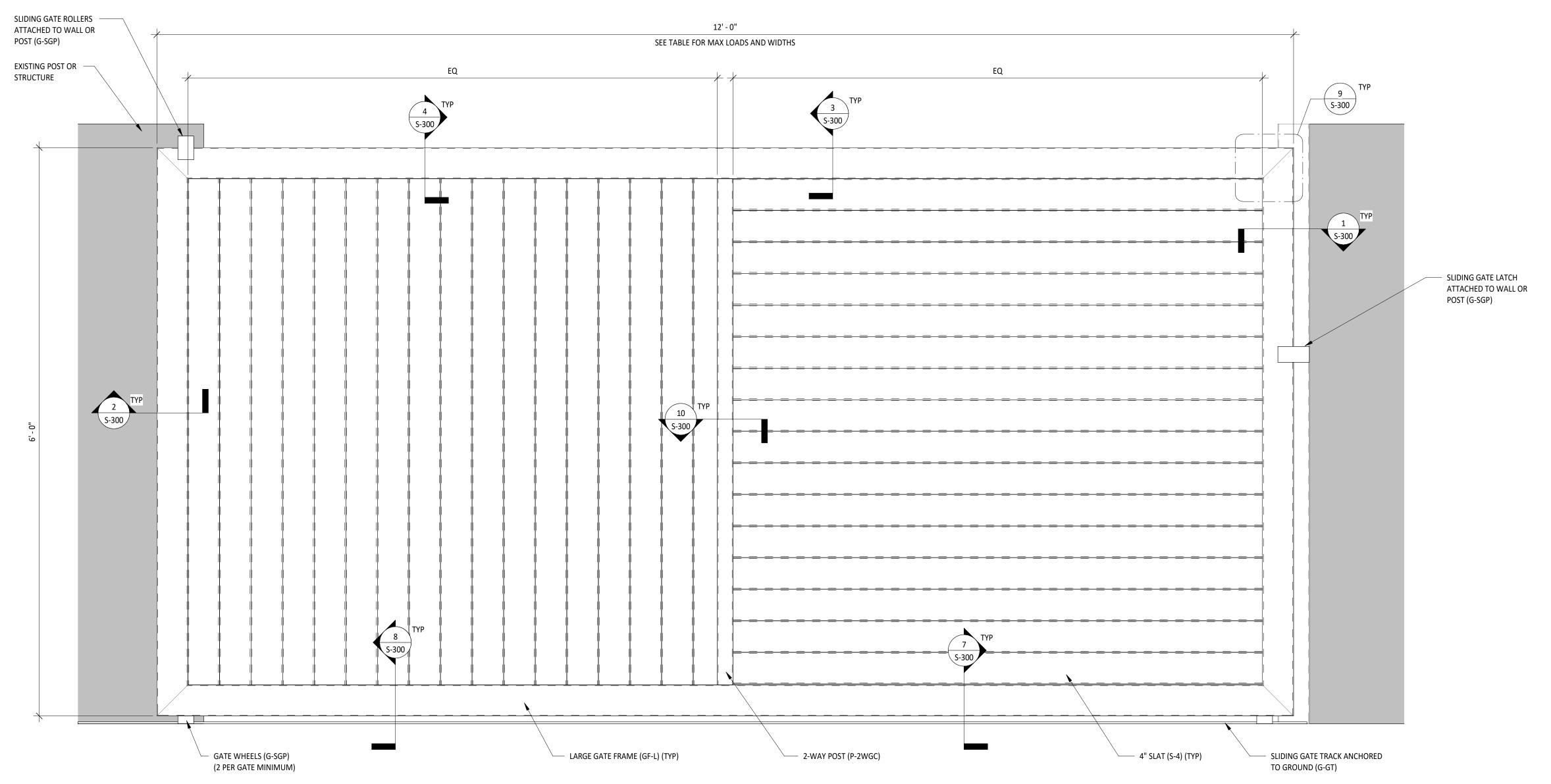
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DSG SHEET NO: S-001

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PROJECT NO:





2 TYP SLIDING GATE ELEVATION VIEW 1 1/2" = 1'-0"

SLIDING GATE FRAME LOAD TABLE					
GATE HEIGHT 'H' (MAX)	GATE WIDTH 'W' (MAX) <sup>1</sup>	MAX DESIGN PRESSURE <sup>2</sup>	MAX ULT WIND PRESSURE <sup>3</sup>		
6'-0"	10'-0"	33 PSF	55 PSF		
6'-0"	11'-0"	28.8 PSF	48 PSF		
6'-0"	12'-0"	24 PSF	40 PSF		
6'-0"	13'-0"	19.2 PSF	32 PSF		
6'-0"	14'-0"	16.8 PSF	28 PSF		
6'-0"	15'-0"	15 PSF	25 PSF		
6'-0"	16'-0"	13.8 PSF	23 PSF		
6'-0"	17'-0"	12 PSF	20 PSF		
6'-0"	18'-0"	10.8 PSF	18 PSF		

MAX WIDTH BASED ON SOLID GATE WITH MINIMAL GAPS.
 MAX ALLOWED ASD FACTORED LOAD FOR GATE AS DEFINED BY ASCE 7.

MAX ALLOWED ASD FACTORED LOAD FOR GATE AS DEFINED BY ASCE 7.
 MAX ULTIMATE WIND PRESSURE FOR GATE AS DEFINED BY ASCE 7.

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AGE NO:

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