



PL201900115
PL2019-115

GATE 10 VESTIBULE ADDITION

BLOOMINGTON, MN

7801 COMPUTER AVENUE SOUTH

PROJECT TEAM

OWNER
SEAGATE TECHNOLOGY
1801 COMPUTER AVENUE SOUTH
BLOOMINGTON, MN 55435

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ELECTRICAL ENGINEER
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STRUCTURAL ENGINEER
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CODE SUMMARY

PROJECT DESCRIPTION: VESTIBULE ADDITION
PROPOSED USE: ACCESSORY
APPLICABLE GOVERNING STANDARDS:
INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
MINNESOTA STATE BUILDING CODE (MSBC), 2015 EDITION
(NOTE: ALL REFERENCES ARE IBC UNLESS NOTED OTHERWISE)
OCCUPANCY CLASSIFICATION: GROUP "B" - ACCESSORY
TYPE OF CONSTRUCTION: TYPE II-B
AREA OF WORK: 64 SF (NON-SPRINKLED)
(MN RULES CHAPTER 1306 SUB P2 ITEM B)
EXISTING BUILDING IS SPRINKLED
ALLOWABLE BUILDING HEIGHT: EXISTING - N/A
ALLOWABLE BUILDING AREA: EXISTING - N/A
THE EXISTING EXIT DOOR WIDTH IS MAINTAINED WITH THE NEW EXIT DOORS
PANIC HARDWARE ON NEW VESTIBULE DOORS

DRAFTING SYMBOLS

SYMBOL	DESCRIPTION
	NORTH ARROW
	ROOM NAME
	ROOM NUMBER
	SECTION REFERENCE
	ELEVATION REFERENCE
	DETAIL REFERENCE BUBBLE
	ELEVATION REFERENCE
	EXIST. ELEVATION REFERENCE
	PARTITION TYPE REFERENCE
	KEYNOTE REFERENCE
	WINDOW TYPE REFERENCE
	REVISION REFERENCE
	DOOR TAG

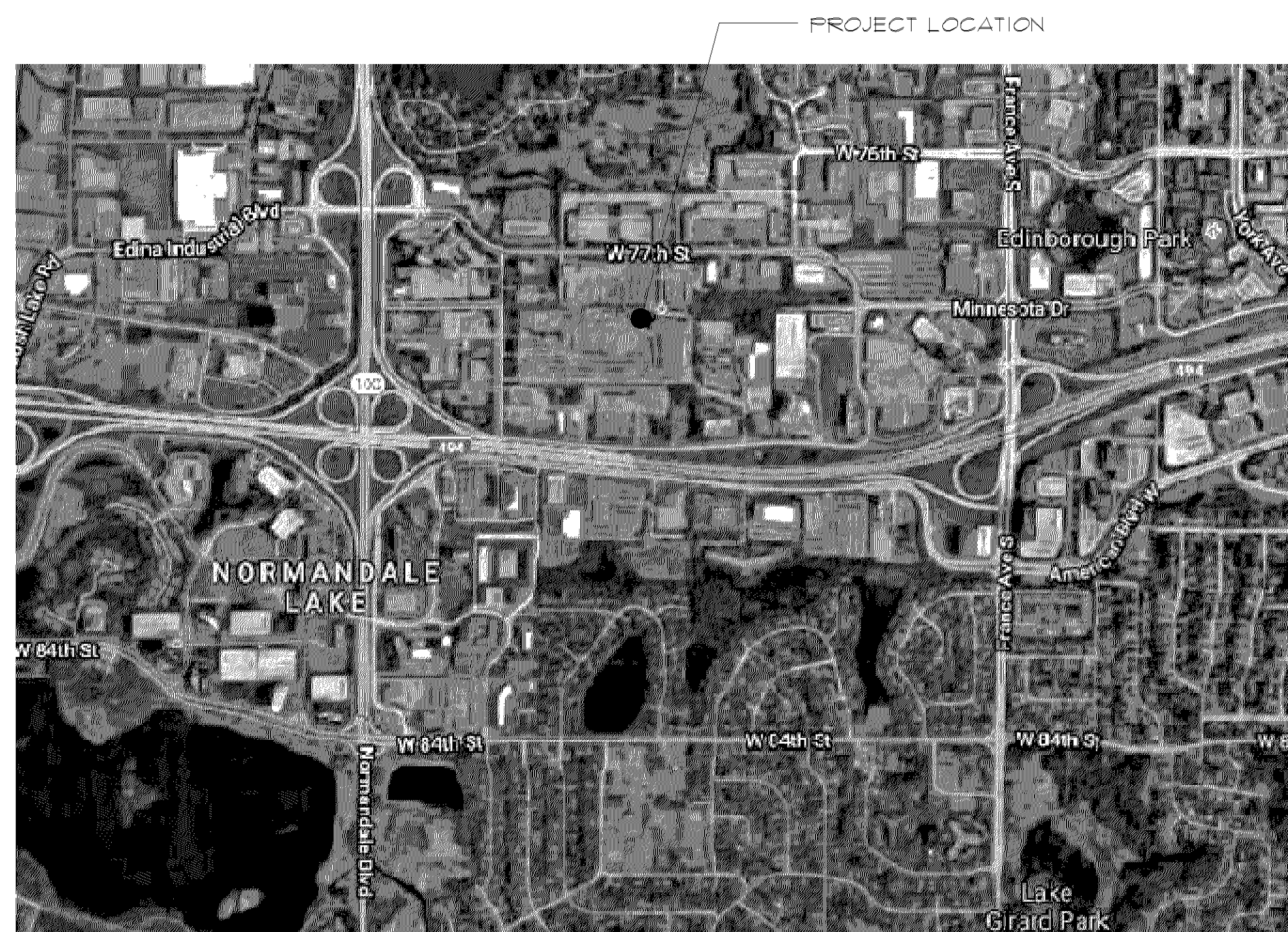
GENERAL NOTES

- THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DRAWINGS OR AT THE JOB SITE TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF SUCH INCONSISTENCIES TO DETERMINE A COURSE OF ACTION TO CORRECT ANY CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS AND DETERMINE COST RESPONSIBILITIES.
- DO NOT SCALE DRAWINGS.
- SUBMIT ALL COLOR SAMPLES TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ALLOW AMPLE TIME FOR SELECTIONS AND APPROVALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETED.
- ALL DEBRIS BY GENERAL CONTRACTOR & OWNER MATERIALS SHALL BE REMOVED FROM THE PREMISES BY THE GENERAL CONTRACTOR OR RESPONSIBLE CONTRACTOR & ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ANY CONSTRUCTION UNTIL ALL FINISHED LOAD CARRYING SYSTEMS ARE COMPLETE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR & SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE (1) YEAR AFTER THE COMPLETION & ACCEPTANCE OF THE WORK UNDER THIS CONTRACT.
- DESIGN-BUILD SUB-CONTRACTORS ARE TO VERIFY THAT ALL APPLICABLE WORK IS IN THEIR SCOPE OF WORK AND THERE-FOR IN THEIR PERSPECTIVE BID. IT IS THE RESPONSIBILITY OF THE DESIGN-BUILD SUB-CONTRACTOR TO COORDINATE THIS WITH OTHER SELECTED DESIGN-BUILD SUB-CONTRACTORS.

DRAWING INDEX

ARCHITECTURAL	
G-001	COVER SHEET
A-100	FLOOR PLAN & DETAILS
A-200	EXTERIOR ELEVATIONS
A-300	WALL SECTIONS
STRUCTURAL	
S1	PLANS
S2	DETAILS AND SECTIONS
S3	GENERAL STRUCTURAL NOTES
MECHANICAL BY OTHERS	
ELECTRICAL BY OTHERS	

PROJECT LOCATION MAP



[illegible]

NOTE: VERIFY AND REUSE EXISTING EXIT SIGNAGE

5/8" GYP. BOARD CEILING PT.

TO CEILING
1'-2"

MESH VENT - SEE 2/A-300

4'-0"

4'-0"

EQ

EQ

EQ

EQ

1'-3"

1'-3"

2"

0"

3

REFLECTED CEILING PLAN

1/2" = 1'-0"

NORTH

2'-0"

1/2" PER FOOT

SCUPPER

METAL FLASHING AT TOP OF PARAPET

1/4" PER FOOT

10'-0" (V.I.F.)

1/2" PER FOOT

NORTH

4 ROOF PLAN

1/2" = 1' = 0"

2 A-300

← TAPERED INSULATION

A-100

HARDWARE SCHEDULE

GROUP	QTY	DESCRIPTION	CATALOG NUMBER	MFR	GROUP	QTY	DESCRIPTION	CATALOG NUMBER	MFR
HARDWARE SET 1	2 EA	CONT. HINGE	100 EPT	IVE	HARDWARE SET 2	2EA	CONT. HINGE	100 EPT	IVE
	2 EA	POWER TRANSFER	EPT2	VON		2EA	POWER TRANSFER	EPT2	VON
NOTES FUNCTION: LATCHBOLT RETRACTED INSIDE BY EXIT DEVICE PUSH PAD AND OUTSIDE BY KEY IN CYLINDER. DOOR LOCKS WHEN KEY IS REMOVED AND DOOR IS CLOSED. THIS DOOR HAS A POWER OPERATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO UNLOCK AND OPEN THE DOOR. A VALID CREDENTIAL WILL UNLOCK THE DOOR AND MAKE THE EXTERIOR ACTUATOR ACTIVE.	1 EA	IC CYLINDER	A6 REQUIRED	SCH	NOTES FUNCTION: LATCHBOLT RETRACTED INSIDE BY EXIT DEVICE PUSH PAD AND OUTSIDE BY KEY IN CYLINDER. DOOR LOCKS WHEN KEY IS REMOVED AND DOOR IS CLOSED. THIS DOOR HAS A POWER OPERATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO UNLOCK AND OPEN THE DOOR. A VALID CREDENTIAL WILL UNLOCK THE DOOR AND MAKE THE EXTERIOR ACTUATOR ACTIVE.	1EA	IC CYLINDER	A6 REQUIRED	SCH
	1 EA	ELEC PANIC	EL-24-V-EO	FAL		1EA	ELEC PANIC	EL-24-V-EO	FAL
		HARDWARE					HARDWARE		
	1 EA	ELEC PANIC	EL-24-V-NL-OP	FAL		1EA	ELEC PANIC	EL-24-V-NL-OP	FAL
		HARDWARE					HARDWARE		
	1 EA	INTERFACE BOX	JB1-R2	VON		1EA	INTERFACE BOX	JB1-R2	VON
	2 EA	30 DEG OFFSET PULL	8130 10"	IVE		2EA	30 DEG OFFSET PULL	8130 10"	IVE
	2 EA	OH STOP	1005	GLY		2EA	OH STOP	1005	GLY
	1 EA	SURFACE CLOSER	4050 TOP JAMB	LCN		1EA	SURFACE CLOSER	4050 TOP JAMB	LCN
	1 EA	SURF. AUTO OPERATOR	4642	LCN		1EA	SURF. AUTO OPERATOR	4642	LCN
	2 EA	ACTUATOR WALL MOUNT	8310-853	LCN		2EA	ACTUATOR WALL MOUNT	8310-853	LCN
	1 EA	CARD READER	BY SECURITY SUPPLIER			1EA	RAIN DRIP	142	ZER
	1 EA	POWER SUPPLY	P5314 300-2RS	VON		1EA	WEATHERSTRIP	BY DR/FR SUPPLIER	B/O
	1 EA	ELEVATION DRAWING				2EA	DOOR SWEEP	8138	ZER
	1 EA	WIRE DIAGRAM	POINT TO POINT			1EA	THRESHOLD	8655	ZER
						1EA	CARD READER	BY SECURITY SUPPLIER	
						1EA	POWER SUPPLY	P5314 300-2RS	VON
						1EA	ELEVATION DRAWING		
						1EA	WIRE DIAGRAM	POINT TO POINT	

DEMO KEY NOTES

- 1 REMOVE EXISTING DOOR AND FRAME.
- 2 REMOVE EXISTING ELECTRICAL UNO. lighting must be 90 degree cutoff and provide at least 2 FC.
- 3 REMOVE EXISTING EXTERIOR FINISH.
- 4 EXISTING LIGHT TO REMAIN

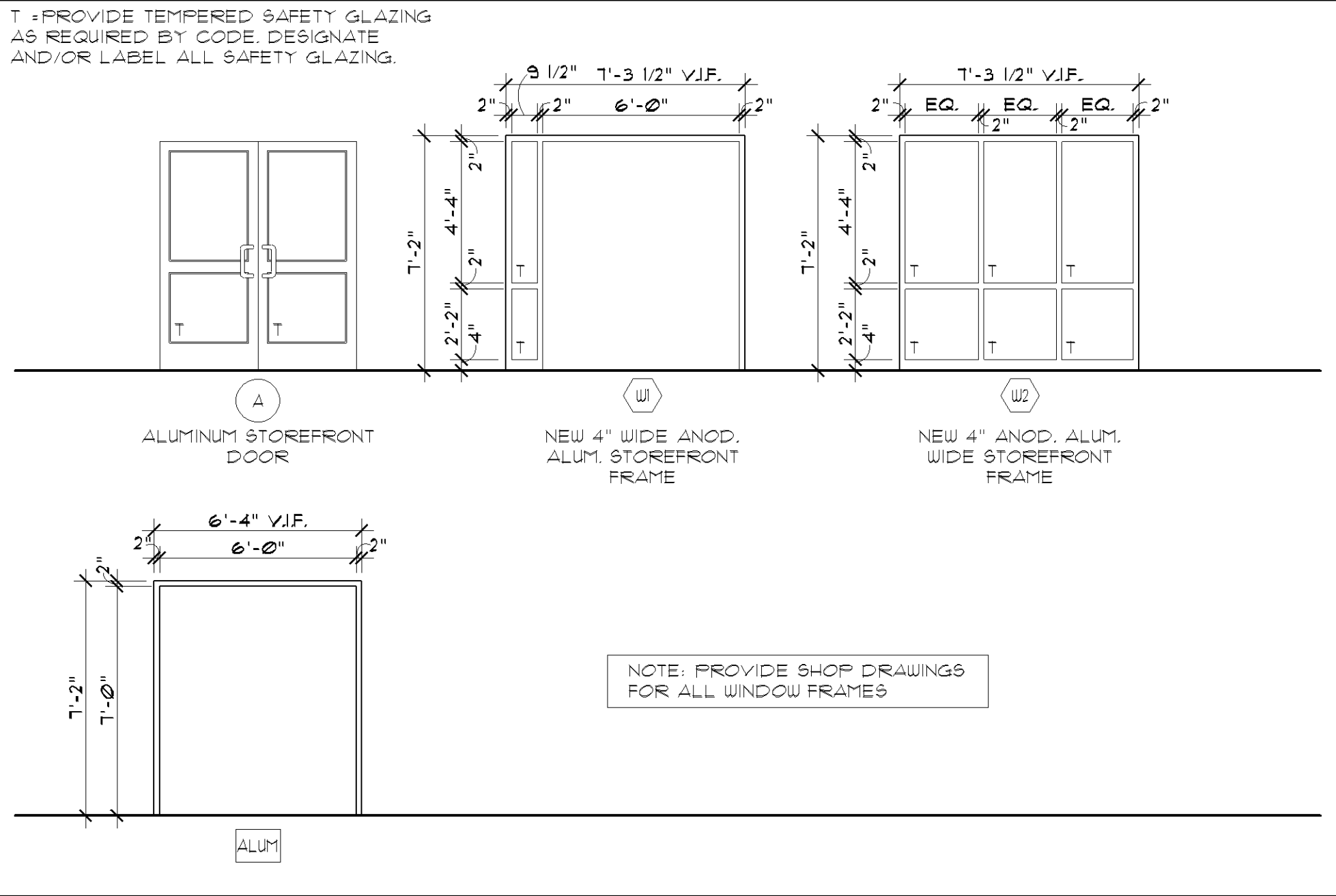
KEY NOTES

- BM BRAKE METAL-TO MATCH ANOD. ALUMINUM STOREFRONT COLOR
- E EXTERIOR FINISH SYSTEM - FINISH AND COLOR TO MATCH EXISTING EXTERIOR WALL FINISH
- MF METAL FASCIA - COLOR TO MATCH EXISTING PARAPET CAP FLASHING
- SC SCUPPER - PREFINISHED METAL TO MATCH EXISTING PARAPET CAP FLASHING COLOR
- S SIGNAGE - TO BE PROVIDED BY SEAGATE

DOOR SCHEDULE

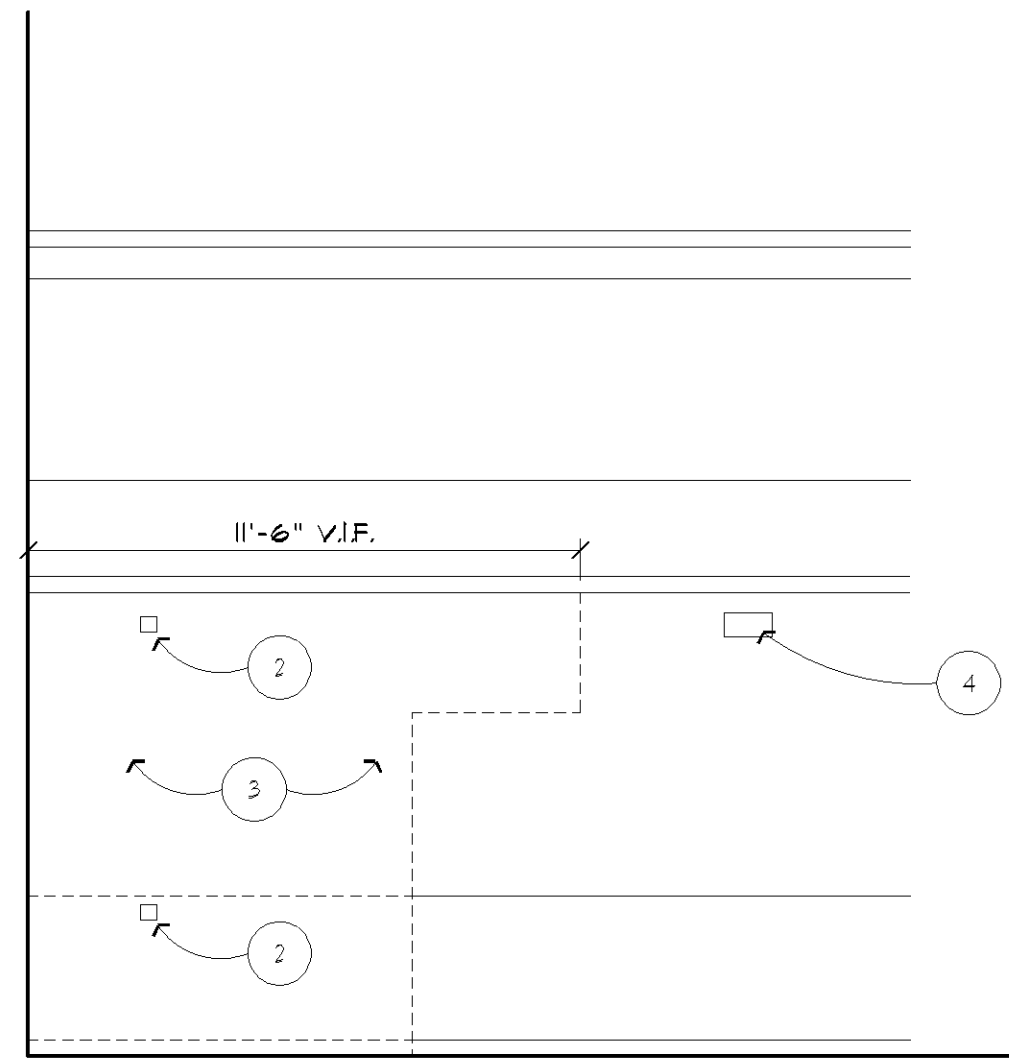
DOOR NUMBER	DOOR SIZE	DOOR		FRAME		HARDWARE
		TYPE	FIN	TYPE	FIN	
100	6'-0"x1'-0"	A	HM	WJ	-	HARDWARE SET 2
101	6'-0"x1'-0"	A	HM	ALUM	-	HARDWARE SET 1

DOOR AND FRAME TYPES

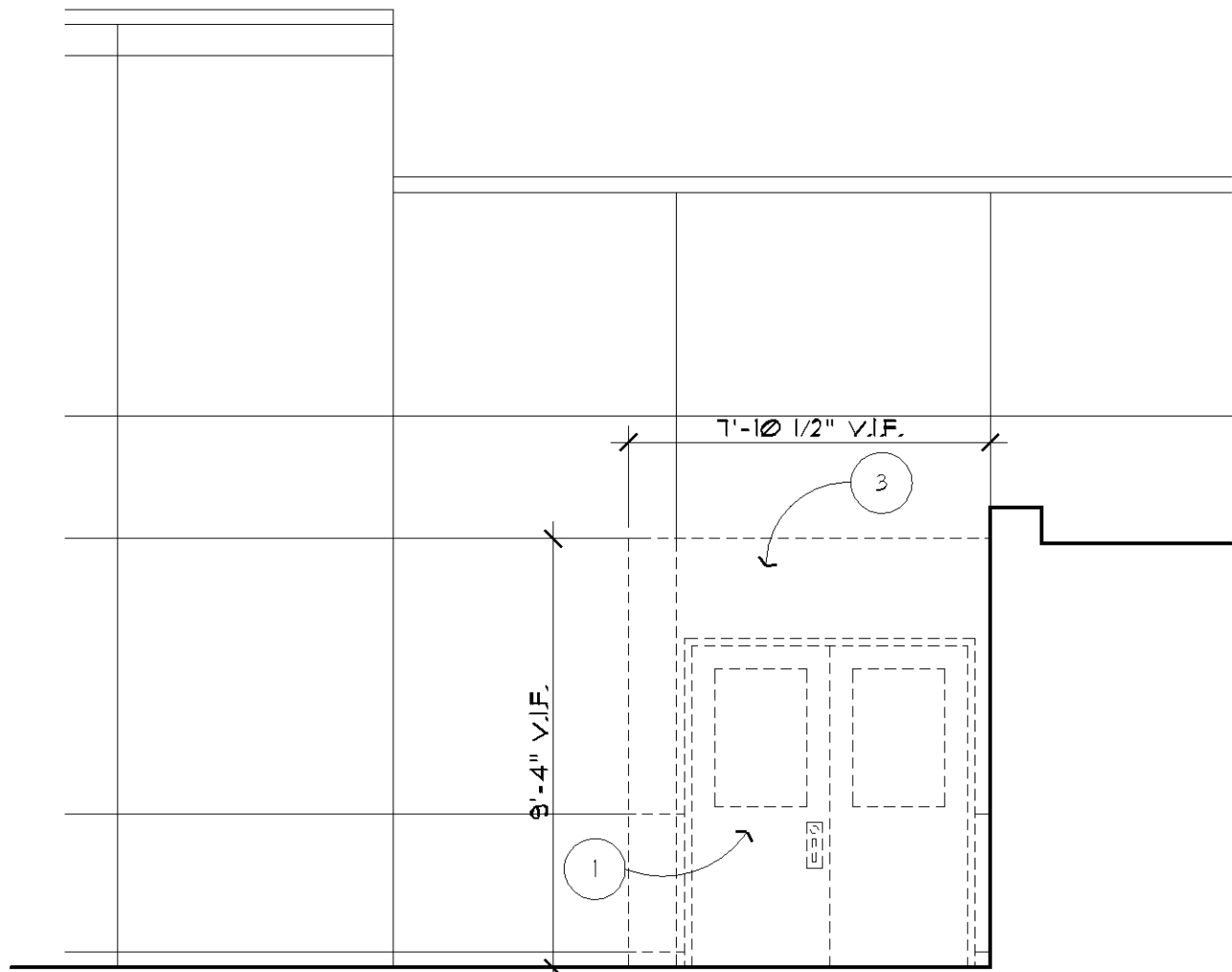


ABBREVIATIONS, DOOR AND FRAME

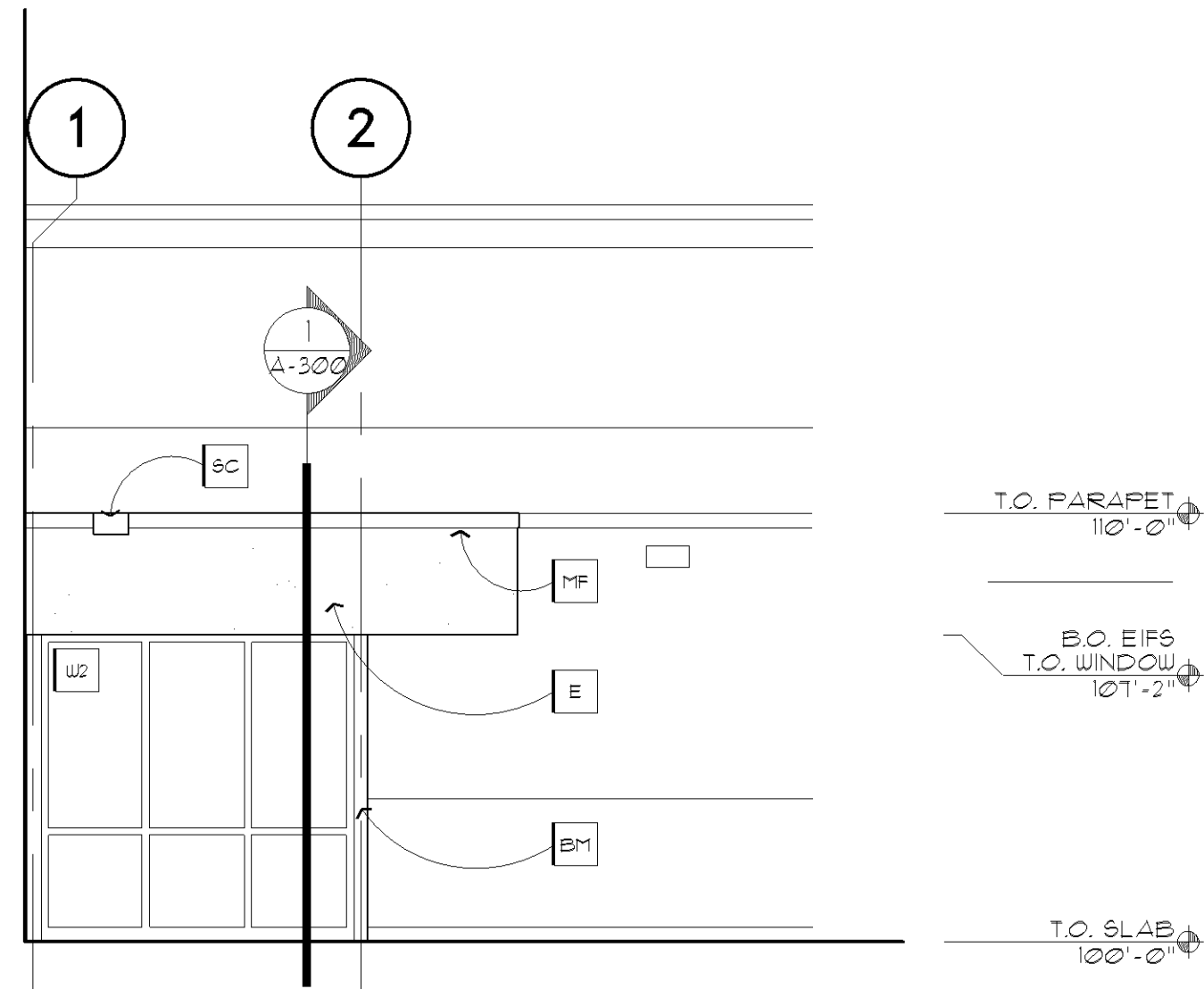
AL	ALUMINUM	SC	SOLID CORE
HM	HOLLOW METAL	STL	STAINLESS STEEL
PT	PAINT	WD	WOOD



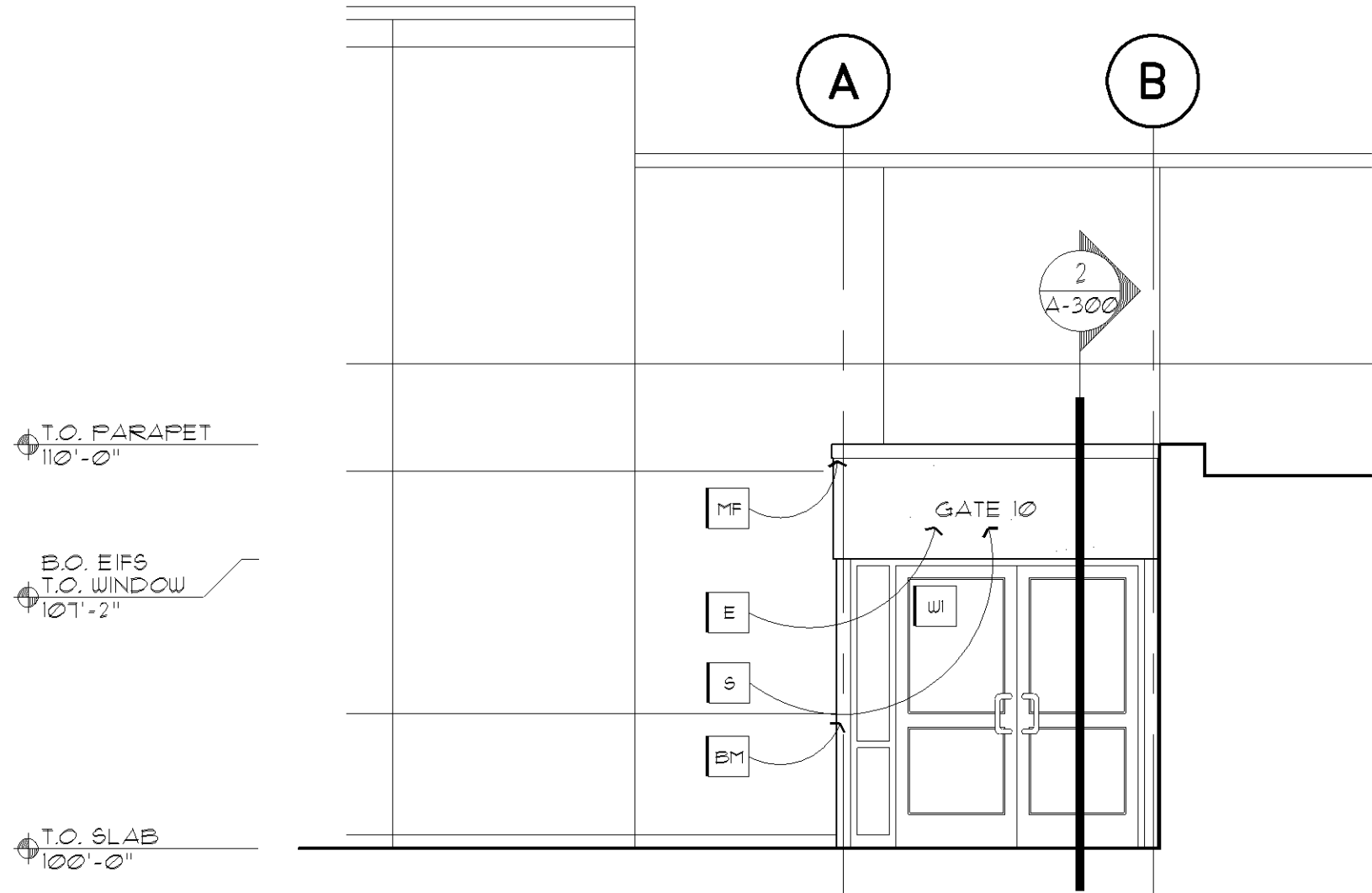
1 DEMOLITION EAST ELEVATION
1/4" = 1'-0"



2 DEMOLITION NORTH ELEVATION
1/4" = 1'-0"



3 EAST ELEVATION
1/4" = 1'-0"



4 NORTH ELEVATION
1/4" = 1'-0"

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I hereby certify that this plan, specification or contract was prepared by me or under my direct supervision and that I am a duly registered ARCHITECT under the laws of the State of MINNESOTA

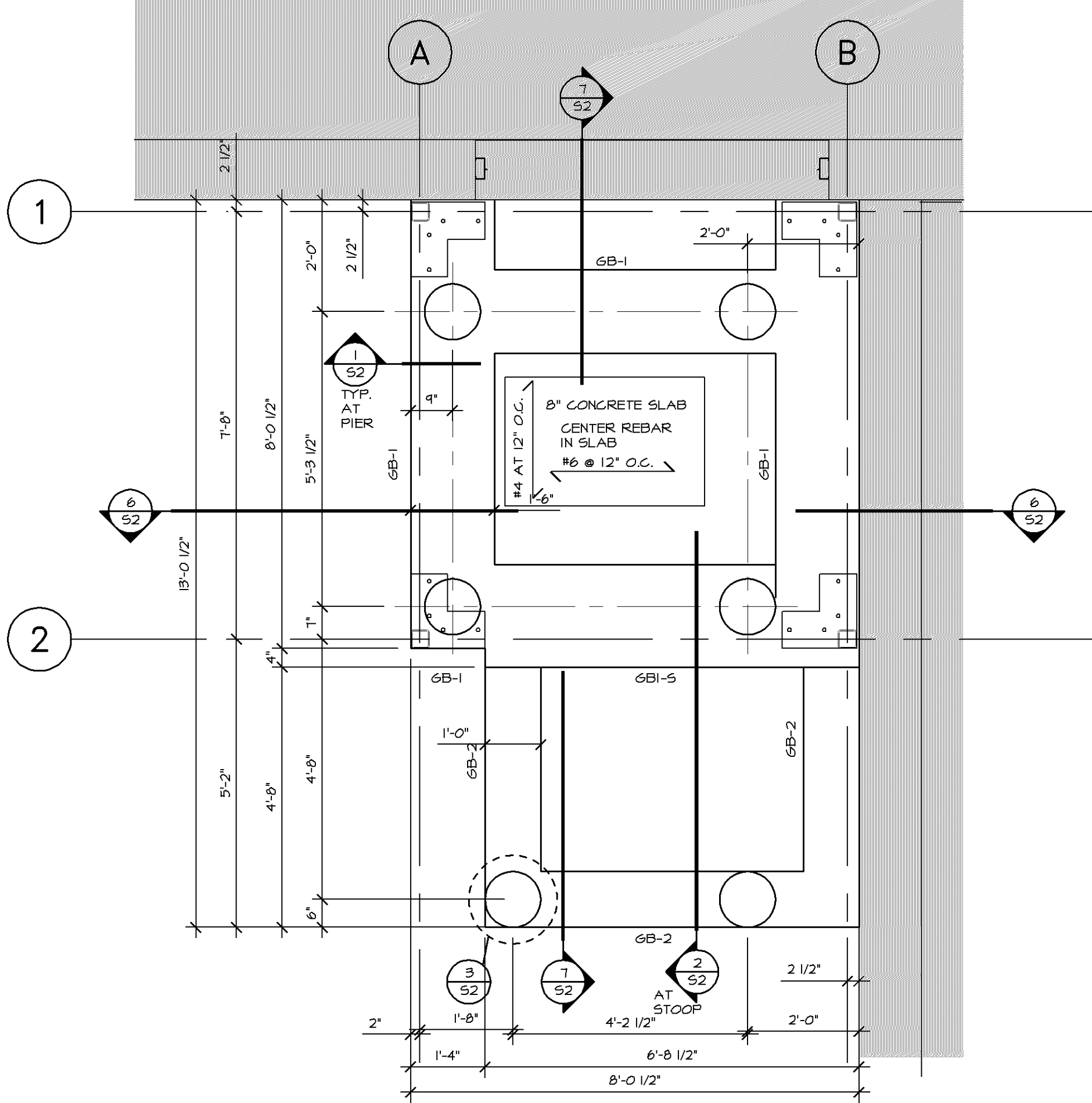
Signature: *[Signature]*
Name: ERIC R. JOHNSON
Registration Number: 18050
Date: 02-25-19

SEAGATE TECHNOLOGY
GATE 10 VESTIBULE
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EXTERIOR ELEVATIONS

DATE ISSUED
PERMIT SET 02/28/19
DRAWN BY ND
CHECKED BY JN
JOB NO. 18252

A-200



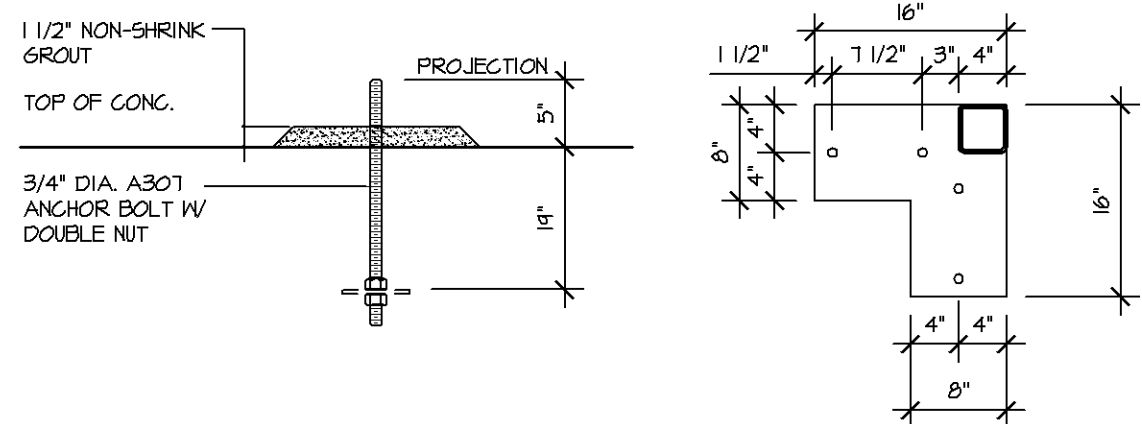
1 FOUNDATION PLAN
1/2" = 1'-0"

FOUNDATION PLAN NOTES:

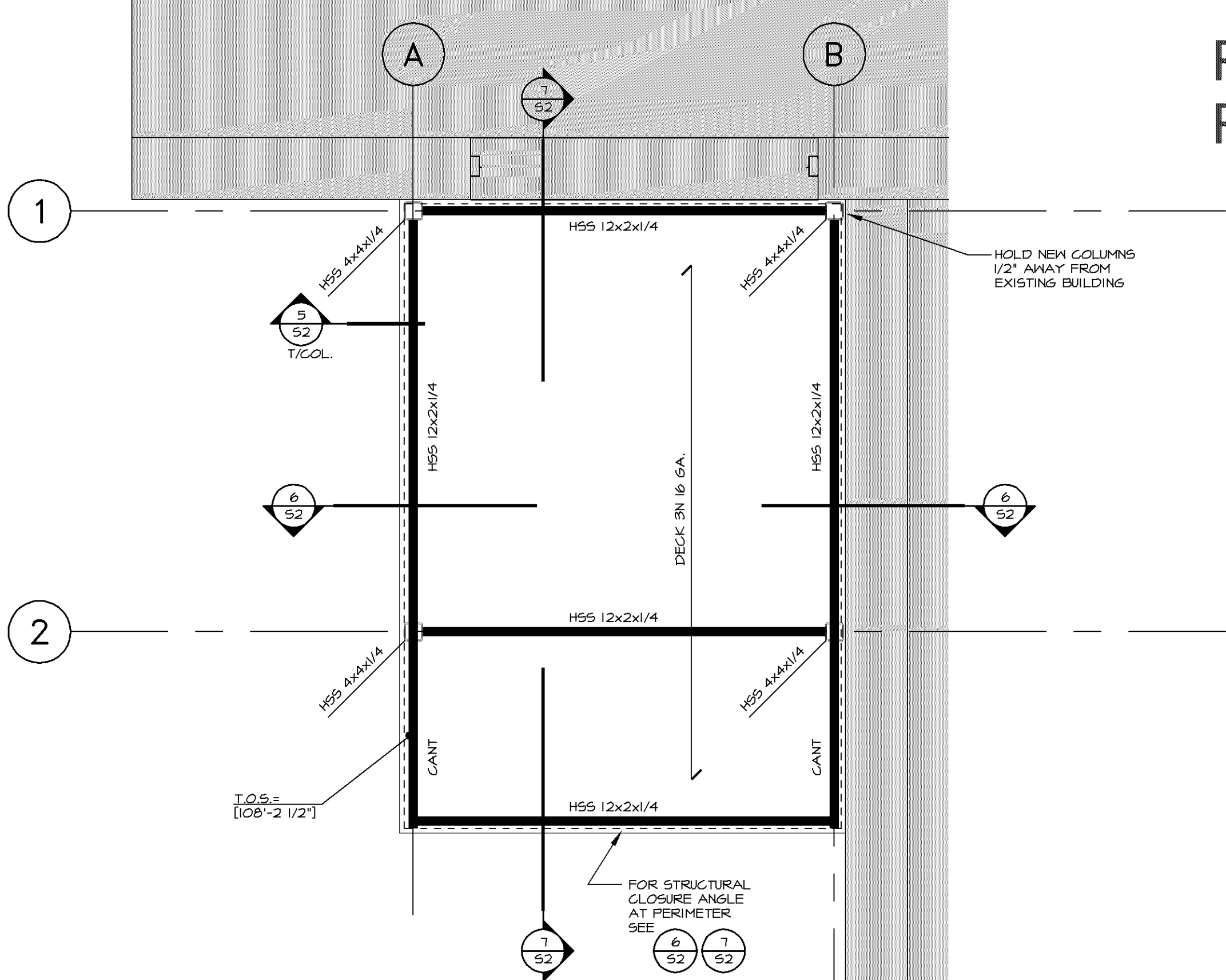
1. CENTER ALL PILES UNDER GRADE BEAMS U.N.O.
2. POUR ALL GRADE BEAMS MONOLITHICALLY.
3. TOP OF GRADE BEAM EL: 99'-4", TYP. U.N.O.

CONCRETE GRADE BEAM SCHEDULE						
BEAM MARK	SIZE		REINFORCING		STIRRUPS (EACH SIDE OF BEAM, U.N.O.)	
	W*	D	BOTTOM	TOP	SIZE/TYP*	SPACING (MAX)
GB-1	18	42	(3) #6	(3) #6	#4 HOOP STIRRUPS	18" O.C.
GBI-5 AT STOOP	22	42	(3) #6	(3) #6	#4 HOOP STIRRUPS	18" O.C.
GB-2	12	42	(3) #6	(3) #6	#4 HOOP STIRRUPS	18" O.C.

1. SEE DETAIL 6/52 AND 7/52 FOR ADDITIONAL INFORMATION.
2. DO NOT SPLICE LONGITUDINAL BARS.
* 3. PROVIDE (2) EXTRA STIRRUPS EA SIDE OF ALL HELICAL PIERS.



3 TYPICAL BASE PLATE AND ANCHOR BOLT DETAILS
NO SCALE



2 ROOF FRAMING PLAN
1/2" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. HOLD NEW COLUMNS 1/2" AWAY FROM EXISTING BUILDING
2. CENTER HSS BEAMS ON COLUMNS

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Paul W. Voigt
Signature
Date: 2-28-19
Registration Number: 20705

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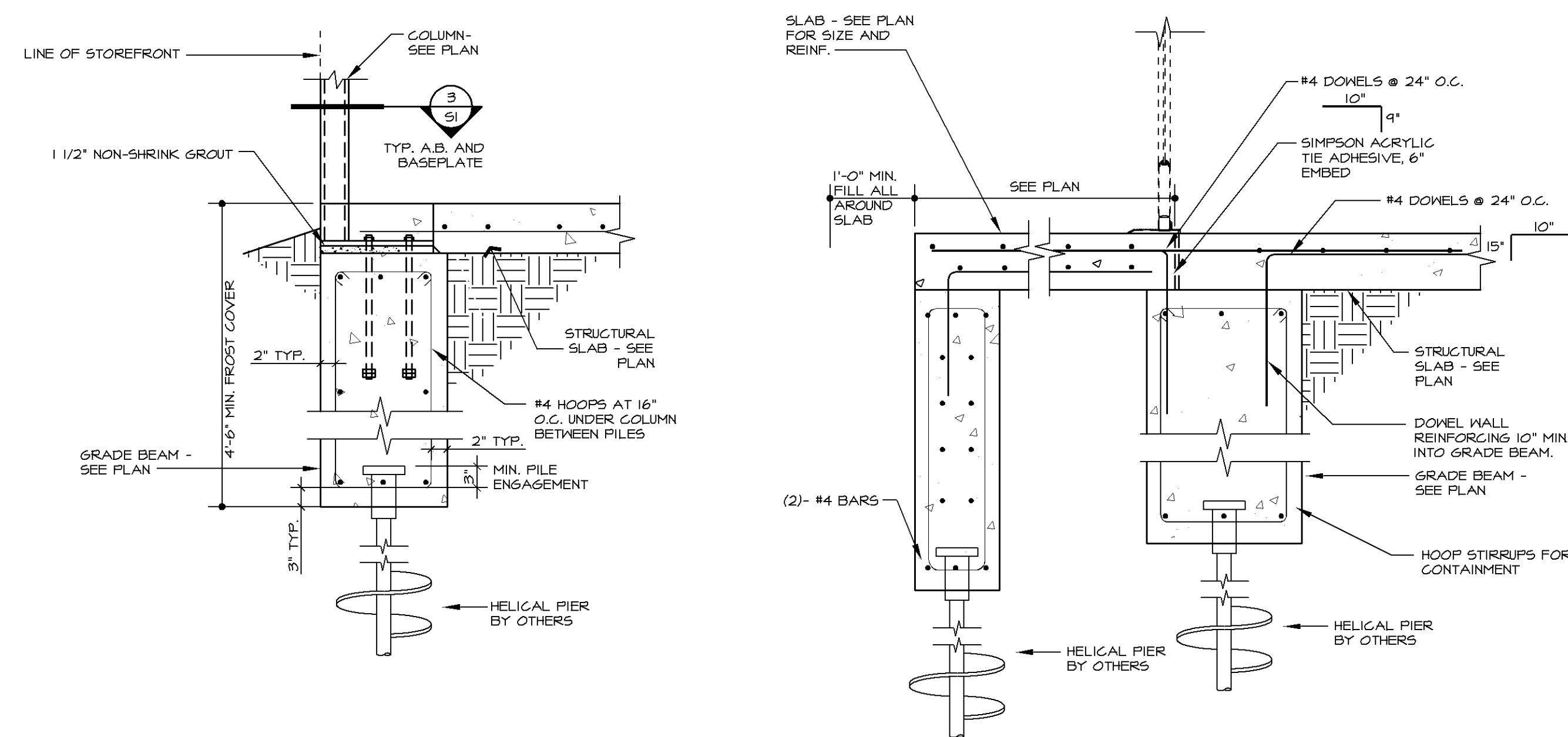
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PLANS

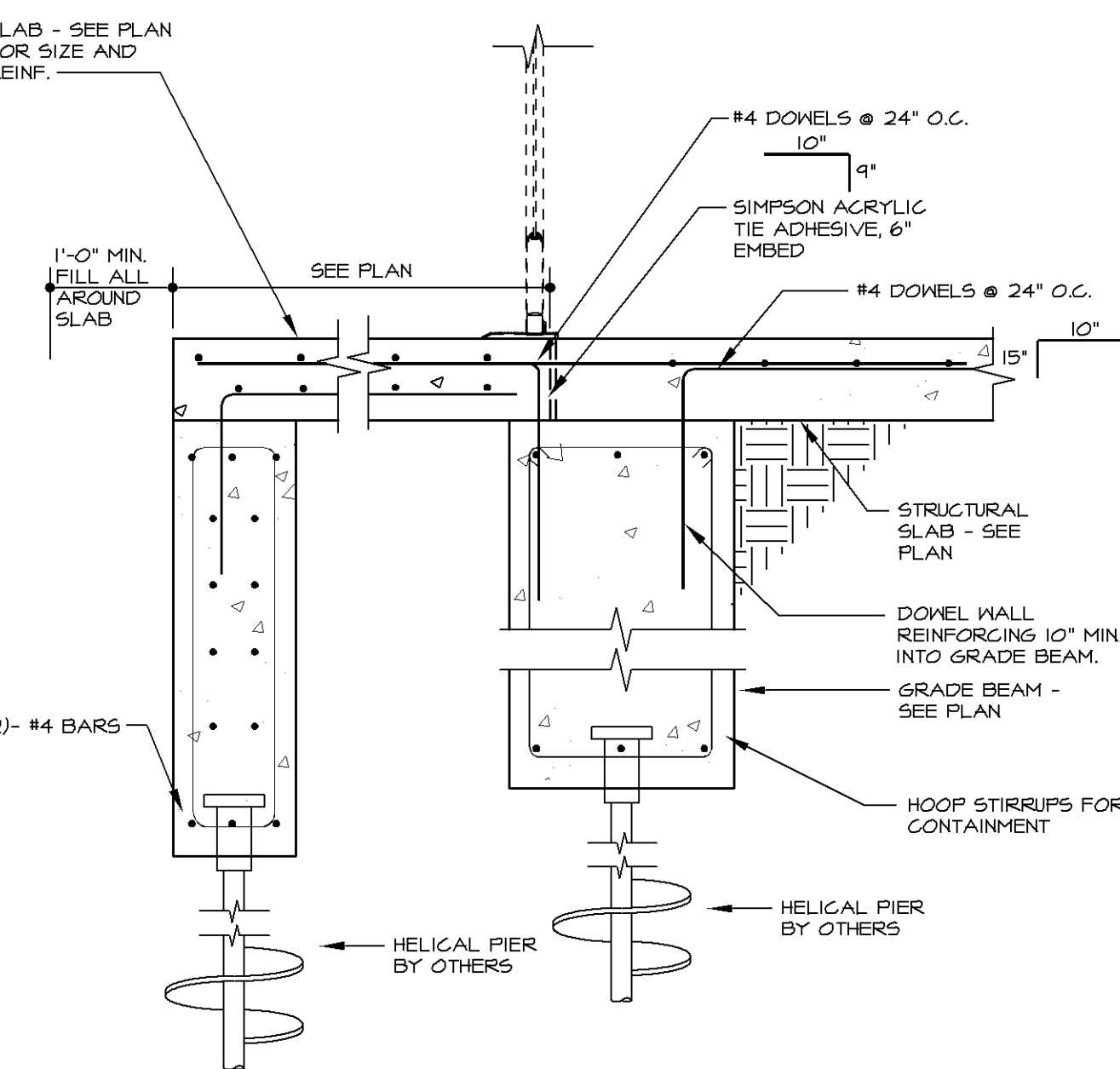
DATE ISSUED
PERMIT 2-28-19

DRAWN BY MLH
CHECKED BY PWV/AWM
JOB NO. VA-19-011

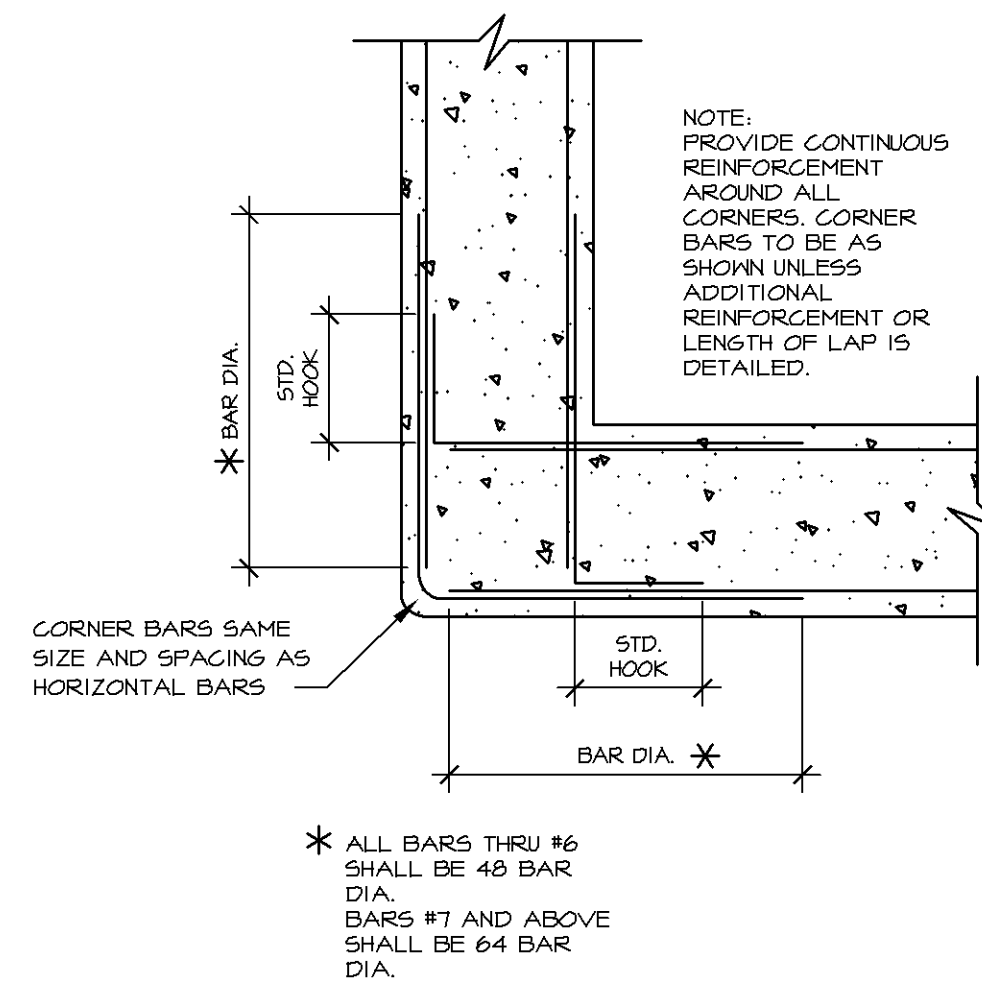
S1



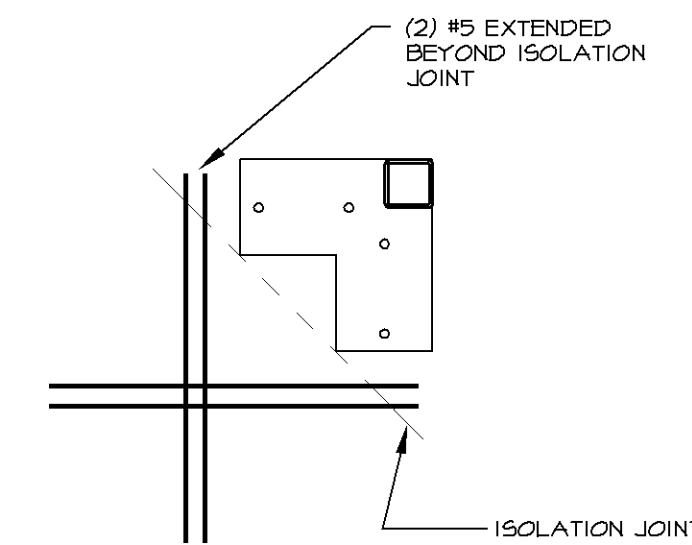
1 EXT. COLUMN / GRADE BEAM DETAIL
NO SCALE



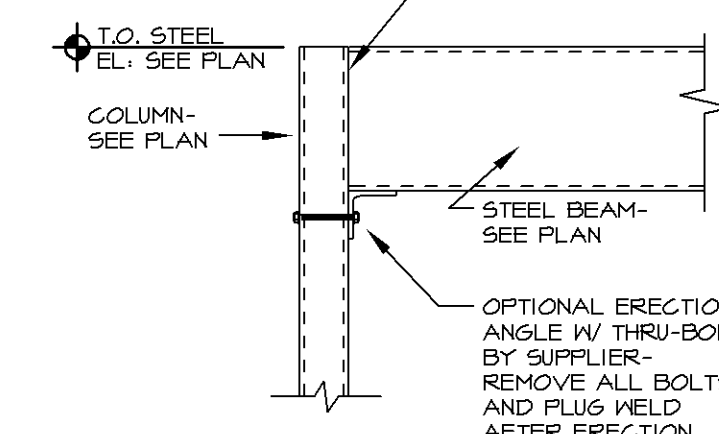
2 STOOP / GRADE BEAM DETAIL
NO SCALE



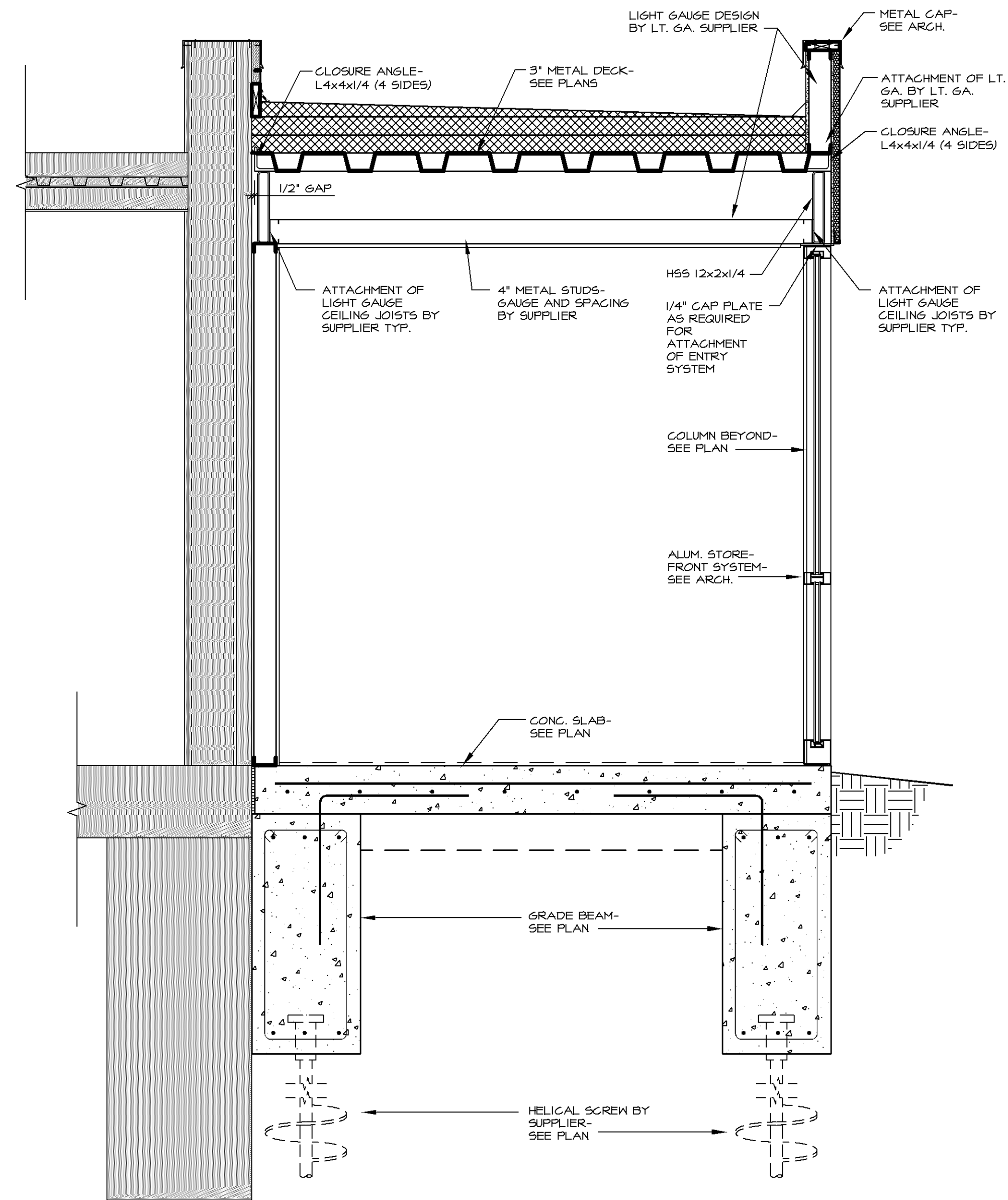
3 CORNER REINFORCEMENT
NO SCALE



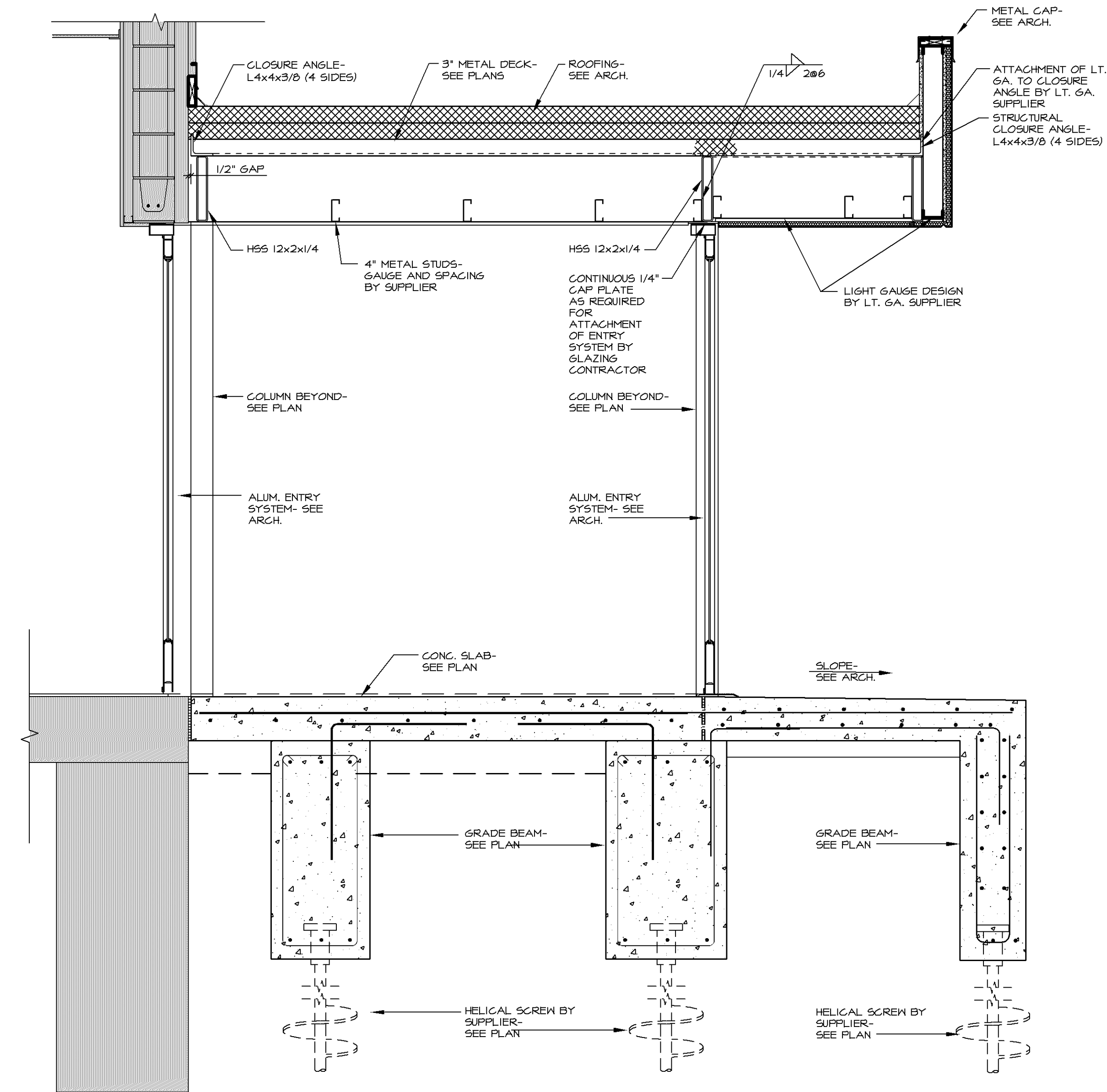
4 ISOLATION JOINT AT COLUMN
NO SCALE



5 COLUMN/BEAM CONNECTION DETAIL
NO SCALE



6 SECTION
NO SCALE



7 SECTION
NO SCALE

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Signature **Paul W. Voigt**
Date **2-28-19**
Registration Number **20705**

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SEAGATE TECHNOLOGY
GATE 10 VESTIBULE
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DETAILS AND SECTIONS

DATE ISSUED
PERMIT 2-28-19

DRAWN BY MLH
CHECKED BY PWV/AWM
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S2

GENERAL STRUCTURAL NOTES

BUILDING CODES USED FOR DESIGN
IBC 2012 (WITH MINNESOTA AMENDMENTS)

DESIGN LOADS

- DESIGN LIVE LOADS:
 - PUBLIC AREAS, CORRIDORS AND STAIRS 100 PSF
 - ROOF 30 PSF GROUND SNOW
 - WIND 90 MPH
- PLUS DRIFTING AND/OR SLIDING SNOW
- EXPOSURE B

HELICAL PIERS

- HELICAL PIERS TO HAVE WORKING CAPACITY OF 20K VERTICAL AND 2K LATERAL.
- PIER SIZE, LENGTH AND CONFIGURATION TO BE DESIGNED BY SUPPLIER.
- RECORDS OF PERIMETER LENGTHS, ELEVATIONS, AND DRIVING RESISTANCE SHALL BE KEPT BY SUPPLIER AND PROVIDED TO THE ENGINEER AND OWNER.

BACKFILLING

- BOTH SIDES OF FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.

COLD WEATHER EXCAVATION

- FROST SHOULD NOT BE ALLOWED TO PENETRATE INTO THE SOILS BELOW ANY PROPOSED STRUCTURE.
- WINTER EXCAVATION SHOULD BE LIMITED TO AREAS SMALL ENOUGH TO BE REFILLED TO A GRADE HIGHER THAN FOOTING GRADE ON THE SAME DAY.
- TRENCHING BACK DOWN TO UNFROZEN SOILS FOR FOUNDATION CONSTRUCTION CAN THEN BE PERFORMED JUST PRIOR TO FOOTING PLACEMENT.
- THE EXCAVATED TRENCHES SHOULD BE PROTECTED FROM FREEZING BY MEANS OF INSULATING OR HEATING DURING THE FOUNDATION CONSTRUCTION.
- BACKFILLING OF THE TRENCHES SHOULD BE PERFORMED IMMEDIATELY AFTER THE BELOW-GRADE FOUNDATION CONSTRUCTION IS FINISHED.
- ANY INTERIOR FOOTINGS, OR FOOTINGS DESIGNED WITHOUT FROST PROTECTION SHOULD BE EXTENDED BELOW FROST DEPTH, UNLESS ADEQUATE PRECAUTIONS ARE TAKEN TO PREVENT FROST INTRUSION UNTIL THE BUILDING CAN BE ENCLOSED AND HEATED.
- ANY FROST WHICH FORMS IN LOOSE LAYER, OR SNOW WHICH ACCUMULATES, SHOULD BE COMPLETELY REMOVED FROM THE FILL AREA PRIOR TO COMPLETION AND ADDITIONAL SOIL PLACEMENT.
- FROZEN SOILS, OR SOILS CONTAINING FROZEN MATERIAL OR SNOW SHOULD NEVER BE USED AS FILL MATERIAL.
- AFTER THE STRUCTURE HAS BEEN ENCLOSED, ALL FLOOR SLAB AREAS SHOULD BE SUBJECTED TO AMPLE PERIODS OF HEATING TO ALLOW THAWING OF THE SOIL SYSTEM.
- THE FLOOR SLAB AREAS SHOULD BE CHECKED AT RANDOM AND REPRESENTATIVE LOCATIONS FOR REMNANT AREAS OF FROST, AND DENSITY TESTS SHOULD BE PERFORMED TO DOCUMENT FILL COMPACTION PRIOR TO SLAB PLACEMENT.

DESIGN STRESSES - NOTE ALL MATERIALS MAY NOT BE USED ON THIS JOB.

STRENGTH AT 28 DAYS (PSI)	TYPE MIX	LOCATION
3000	STD. WT.	INTERIOR SLABS AND WALLS
4000	STD. WT.	EXTERIOR SLABS AND WALLS
3000	STD. WT	FOOTINGS
MASONRY	Fm = 1500 PSI (AT 28 Days)	
REINFORCEMENT	Fy = 60,000 PSI ASTM A615	
WIDE FLANGE SHAPES	Fy = 50,000 PSI ASTM A572	
STRUCTURAL TUBING	Fy = 46,000 PSI ASTM A500 GRADE B	
STANDARD STEEL PIPE	Fy = 36,000 PSI ASTM A53 GRADE B	
PLATES	Fy = 36,000 PSI ASTM A36	
MISC. STRUCTURAL SHAPES	Fy = 36,000 PSI ASTM A36	
BOLTS	Fv = 120,000 PSI ASTM A325	
ANCHOR BOLTS	Fv = 60,000 PSI ASTM A307**	
WELD ELECTRODE	Fy = 70,000 PSI	
WELDED WIRE FABRIC	ASTM A185	

CONCRETE

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301.
- TOLERANCES SHALL CONFORM TO ACI 117.

CONCRETE COVERAGE FOR REINFORCEMENT

- FOOTINGS 3"
- EXPOSED EXTERIOR CONCRETE 2"

REINFORCING STEEL

- THE REINFORCING STEEL CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS SHOWN OTHERWISE ON THE PLANS AND/OR DETAILS.
- CONCRETE REINFORCEMENT SHALL BE PLACED ACCORDING TO THE CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
- COMPRESSION AND TENSION LAP SPICES FOR CAST-IN-PLACE CONCRETE SHALL BE 36 BAR DIAMETERS MINIMUM UNLESS OTHERWISE NOTED.
- TENSION LAP SPICES FOR REINFORCED MASONRY SHALL BE 48 BAR DIAMETERS MINIMUM UNLESS OTHERWISE NOTED.
- HORIZONTAL REINFORCING STEEL IN FOOTINGS AND CONCRETE WALLS SHALL BE CONTINUOUS AROUND CORNERS.
- ALL LAPS IN WWF SHOULD BE ONE MESH PLUS TWO INCHES AT SPICES.
- PROVIDE (2) #5 REINFORCING BARS EACH SIDE AROUND OPENINGS IN CONCRETE WALLS AND SLABS. BARS SHALL EXTEND 24" BEYOND THE CORNERS OF THE OPENINGS. ALSO PROVIDE (2) #5 DIAGONAL BARS AT EACH CORNER OF OPENING.
- TOP BARS SHALL BE HOOKED AT END SPANS.

CONSTRUCTION AND CONTROL JOINTS IN CONCRETE

- CONSTRUCTION JOINTS SHALL BE MADE AS DETAILED ON THE DRAWINGS.
- MAXIMUM SPACING FOR CONTROL JOINTS IN SLABS ON GRADE SHALL BE 12'-0".
- A 12'-0" MAXIMUM SPACINGS OF CONTROL JOINTS MAY NOT INSURE COMPLETE CONTROL OF SHRINKAGE CRACKS. A CLOSER SPACING MAY BE USED BY REQUEST OF OWNER IF MORE COMPLETE SHRINKAGE CRACK CONTROL IS DESIRED. CONTRACTOR TO VERIFY WITH OWNER.
- CONSTRUCTION JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE LOCATED SO NO SINGLE FOUR IS LONGER THAN 30 FEET.

STRUCTURAL STEEL

- FABRICATIONS AND ERECTION OF STRUCTURAL STEEL MEMBERS IS TO BE IN ACCORDANCE WITH A.I.S.C. CODE OF STANDARD PRACTICE.
- ALL CONNECTIONS SHALL BE BOLTED OR WELDED AND SHALL DEVELOP THE FULL STRENGTH OF THE STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE. (MINIMUM OF (2) BOLTS PER CONNECTION).
- ALL WELDING SHALL BE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE STANDARDS OF THE AMERICAN WELDING SOCIETY, D11.48 STRUCTURAL WELDING CODE - STEEL WELDINGS OF GALVANIZED PARTS IS NOT PERMITTED.
- ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL CONFORM TO MATCHING FILLER METAL REQUIREMENTS OF AWS D11.48.
- FIELD CONNECTIONS ARE TO BE BOLTED. USE 3/4" DIA. HIGH STRENGTH BOLTS AND NUTS (A325) UNLESS SHOWN OTHERWISE ON PLANS.
- STEEL COLUMN BASE PLATES SHALL BE SIZE SHOWN ON PLAN WITH 3/4" DIAMETER ANCHOR BOLTS (A307) AND 1" NON-SHRINK GROUT FOR UNIFORM BEARING.
- UNLESS NOTED OTHERWISE, STRUCTURAL STEEL SUPPLIER IS TO FURNISH (3) 1/2" x 3 1/2" x 1/4" SHOP WELDED ANGLE FRAMES AT ALL ROOF OPENINGS. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
- ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS SHALL BE PRIME PAINTED WITH ONE COAT OF TENEC #49 PRIMER OR EQUAL. TOUCH UP ALL DISTURBED AREAS AFTER ERECTION.
- CUTS, HOLES (OPENINGS), ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE ARCHITECT.
- GROUT UNDER BEAM BEARING PLATES AND COLUMN BASE PLATES SHALL BE NON-SHRINK AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 10,000 PSI.

STEEL ROOF DECK

- STEEL DECK SHALL BE PAINTED.
- END JOINTS OF DECK SHALL BE STAGGERED WITH 2" MINIMUM END LAPS.
- DECK SHALL BE 1/2" - 22 GAGE WIDE RIB DECK, TYPE B.
- METAL DECK - SEE PLAN FOR SIZE AND GAGE

LIGHT GAGE STUDS AND JOISTS

- ALL STUDS, JOISTS AND ACCESSORIES SHALL BE PRIMED WITH RUST-INHIBITIVE PAINT MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-636C, OR SHALL BE FORMED FROM STEEL HAVING A5-60 GALVANIZED COATING.
- ALL FRAMING MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD OF 33,000 PSI FOR 18 GA. OR LIGHTER, 30,000 PSI FOR 16 GA. OR HEAVIER.
- ALL TRACKS SHALL MEET THE REQUIREMENTS OF A446, GRADE 93, WITH A MINIMUM YIELD OF 33,000 PSI.
- ALL WELDING IS TO BE DONE PER MANUFACTURERS RECOMMENDATIONS ON ROD TYPE AND AMPERAGE.
- TRACKS SHALL BE SECURELY ANCHORED TO CONCRETE OR CMU. JOISTS SHALL BE SET SQUARE AND PLUMB INTO TRACKS AND SECURELY FASTENED TO WEB AND FLANGES.
- UNLESS DETAILED OTHERWISE, MAKE FIELD CONNECTIONS USING (3) #12 PAN HEAD SCREWS OR 1/8" BY 1 1/2" LONG FILLET WELDS.
- NO SPICES IN STUDS SHALL BE PERMITTED.
- BRACE ALL WALLS WITH COLD ROLLED CHANNEL THROUGH THE STUD RUNCHOUTS AT 4'-0" O.C. MAXIMUM.

CONSTRUCTION PROCEDURE

- THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "INFILL" LOADS.
- COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL LAWS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE NOTED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN OR OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EACH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC.
- ENGAGE PROPERTY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN THE FIELD. OBSERVATION VISITS TO THE SITE BY ENGINEER'S FIELD REPRESENTATIVE SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- SUPERVISE AND DIRECT THE WORK SO AS TO MAINTAIN SOLE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS A PART OF THIS RESPONSIBILITY. RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR WORKMEN, AND ALL SHORING OF FORMS AND ELEMENTS OF THE CONSTRUCTION.

MISCELLANEOUS

- PLACEMENT OF ANCHOR BOLT, PIPE SLEEVES, PADS AND OPENINGS FOR EQUIPMENT SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE OTHER SUBCONTRACTORS.
- ALL CORE DRILLING SHALL BE DONE UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR. NO REINFORCING SHALL BE CUT. VERIFY LOCATION OF REINFORCING BEFORE CORE DRILLING. THERE SHALL NOT BE ANY CORE DRILLING THROUGH BEAMS OR COLUMNS. MAXIMUM CORE HOLD THROUGH SLABS SHALL BE PIPE DIAMETER PLUS 1".

COORDINATION WITH ARCHITECTURAL DRAWINGS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. WHERE DISCREPANCIES OCCUR, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION.

SHOP DRAWINGS

- SHOP DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
- SHOP DRAWINGS TO BE PREPARED UNDER SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER, INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAM.
- FABRICATORS SHALL DRAW THEIR OWN ERECTION PLANS. COPYING THE STRUCTURAL PLANS AND USING THEM AS ERECTION DRAWINGS IS NOT ACCEPTABLE.
- PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE DRAWINGS AS EVIDENCE THAT HE HAS REVIEWED THEM.
- SHOP DRAWINGS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS.
- TURN AROUND TIME FOR SHOP DRAWINGS SHALL BE ONE WEEK FROM DATE RECEIVED IN THE ENGINEERS OFFICE.
- SHOP DRAWINGS FOR ALL STRUCTURAL COMPONENTS AND SYSTEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.

STRUCTURAL DRAWINGS

- THESE DRAWINGS SHOW INTENT OF DESIGN AND ARE NOT INTENDED TO CONFLICT WITH THE CONVENTION OF PROFESSIONAL CONSTRUCTION PRACTICES, BE EXCLUSIVE IN USE, NOR PURPORT TO INDICATE EVERY ITEM OF WORK OR MATERIAL NECESSARY FOR A COMPLETE AND SATISFACTORY PROJECT. ALL QUESTIONS REGARDING DESIGN INTENT OR MATERIALS SHOULD BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION IMMEDIATELY. DO NOT PROCEED WITH ANY DEGREE OF UNCERTAINTY WITH ANY ITEM OR PHASE OF THE WORK.

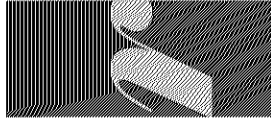
SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE IBC. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER AND SHALL MEET THE QUALIFICATIONS OF THE CODE..

NEW WORK IN CONJUNCTION WITH EXISTING CONSTRUCTION

- THE CONTRACTOR SHALL VERIFY, BY FIELD CHECK, ALL SIZES, DIMENSIONS, ELEVATIONS, LOCATIONS, ETC. OF ELEMENTS OF THE EXISTING CONSTRUCTION WHICH ARE RELATIVE TO THE NEW CONSTRUCTION.
- ALL DIMENSIONS INVOLVING NEW WORK TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION SHALL BE FIELD CHECKED BY THE CONTRACTOR AND FURNISHED TO THE SUBCONTRACTOR PRIOR TO FABRICATION OF ANY WORK. THE VERIFIED DIMENSIONS SHALL APPEAR AND BE NOTED AS SUCH ON THE FIRST SHOP DRAWING SUBMITTED.
- THE ENGINEER HAS MADE ASSUMPTIONS CONCERNING THE SOUNDNESS OF THE EXISTING BUILDINGS AND THESE ASSUMPTIONS ARE THAT THIS BUILDING WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD DESIGN AND CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. FURTHER, HE SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THIS PROPERTY.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- ALL HOLES THROUGH EXISTING CONCRETE OR MASONRY CONSTRUCTION SHALL BE CORE DRILLED OR SAW CUT. NEW OPENINGS MUST BE MADE WITH ENGINEER'S APPROVAL.
- CUTTING OF EXISTING STRUCTURAL STEEL IS PROHIBITED WITHOUT APPROVAL FROM THE ENGINEER.

PL201900115
PL2019-115



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.

Signature **Paul W. Voigt**
PAUL W. VOIGT
2-28-19
20705
Registration Number



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GENERAL STRUCTURAL NOTES

DATE ISSUED
PERMIT 2-28-19

DRAWN BY MLH
CHECKED BY PWV/AWM
JOB NO. VA-19-011

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