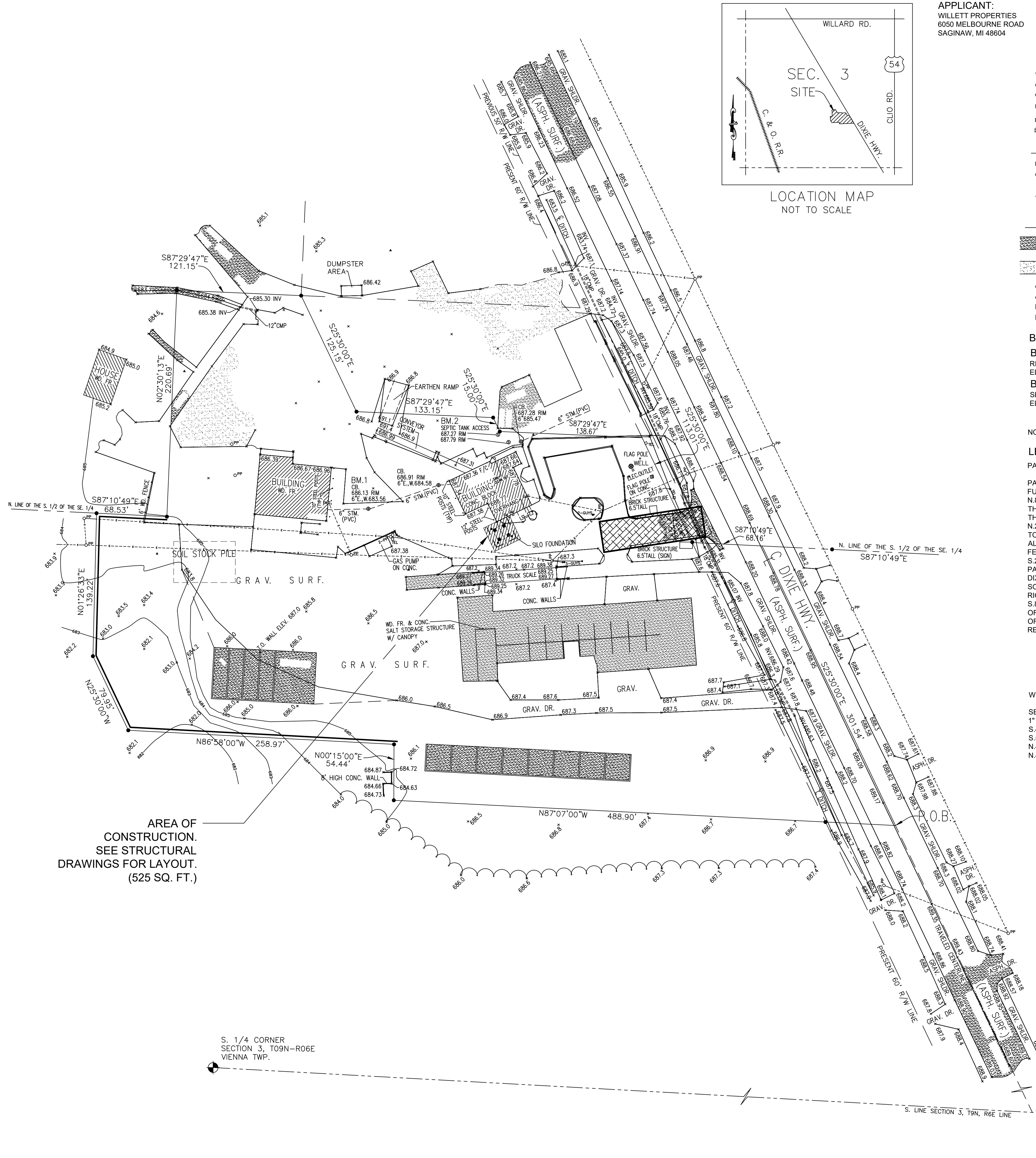




APPLICANT:
WILLETT PROPERTIES
6050 MELBOURNE ROAD
SAGINAW, MI 48604

LEGEND

- SANITARY MANHOLE
- DRAINAGE STRUCTURE
- ⊕ CATCHBASIN
- ⊕ CURB INLET
- ⊕ WATER VALVE
- ⊕ GAS VALVE
- ⊕ GAS METER
- ⊕ TRAFFIC SIGN
- ⊕ BURIED CABLE MARKER
- BURIED CABLE MARKER
- ELECTRIC METER
- POWER POLE
- GUY POLE
- TELEPHONE PEDESTAL
- OVERHEAD WIRES
- CONCRETE
- CONCRETE (BROKEN)
- SET IRON
- FD. IRON
- M MEASURED DIMENSION
- R RECORDED DIMENSION

BENCHMARKS

- BM. 1
RIM CATCHBASIN AS SHOWN, EAST OF MOST WESTERLY BUILDING
EL. 686.13 USGS
- BM. 2
SEPTIC TANK ACCESS HATCH, NORTH OF MOST EASTERLY BUILDING
EL. 687.27 USGS

NOTE: BEARINGS BASED ON ASSUMING THE CENTERLINE OF DIXIE HWY AS S.25°30'00"E.

LEGAL DESCRIPTION (AS PROVIDED)

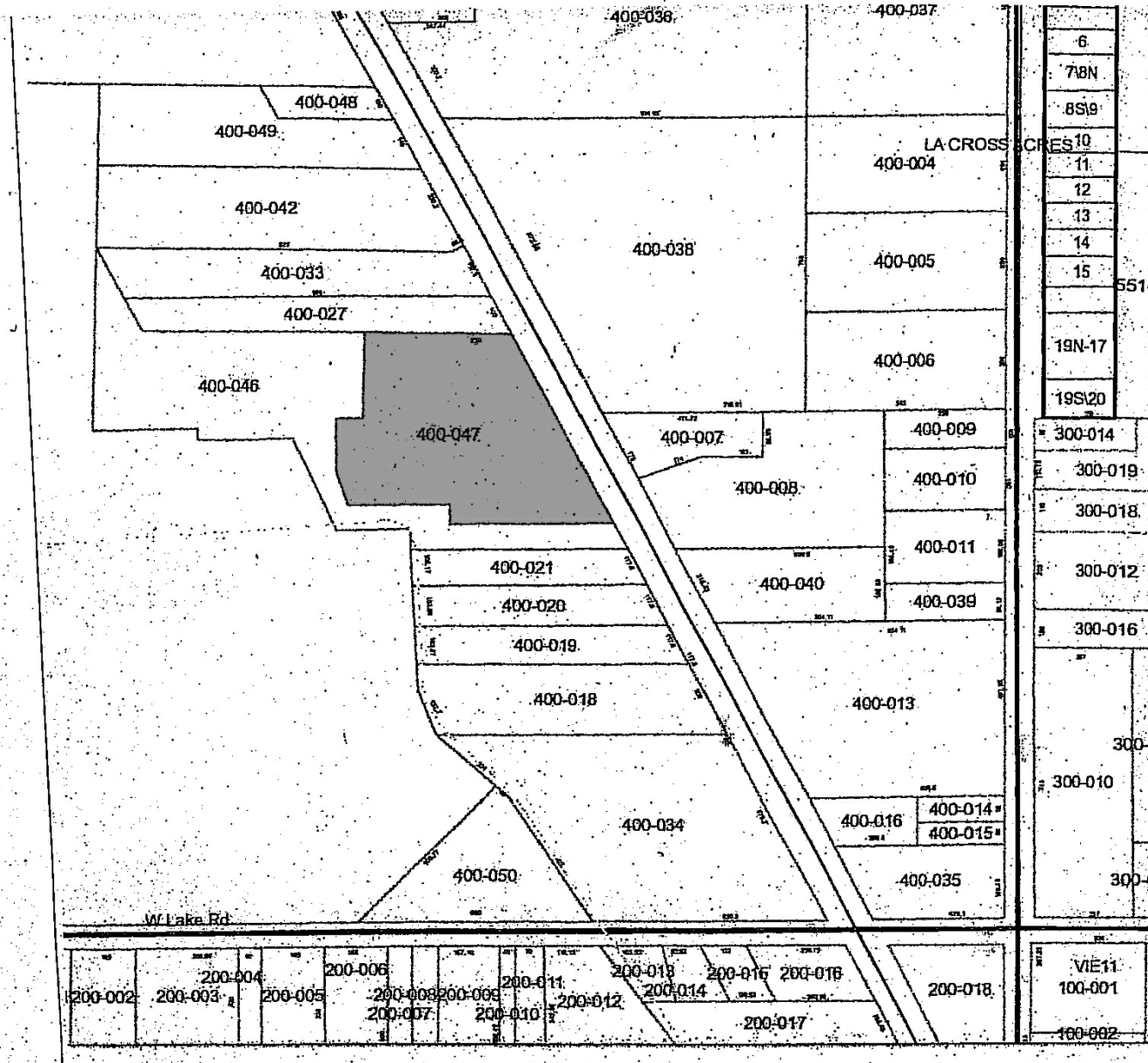
PARCEL "A"

PART OF THE SOUTHEAST 1/4 OF SECTION 3, T.09N-R.06E., VIENNA TOWNSHIP, GENESSEE COUNTY, MICHIGAN BEING FURTHER DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION; THENCE N.86°51'50"W., 426.43 FEET ALONG THE SOUTH LINE OF SAID SECTION TO THE CENTERLINE OF DIXIE HIGHWAY; THENCE N.25°30'00"W., 1216.02 FEET ALONG SAID CENTERLINE OF DIXIE HIGHWAY TO THE POINT OF BEGINNING; THENCE N.87°07'00"W., 488.90 FEET; THENCE N.00°15'00"E., 54.44 FEET; THENCE N.86°58'00"W., 258.97 FEET; THENCE N.25°30'00"W., 79.95 FEET PARALLEL WITH SAID CENTERLINE OF DIXIE HIGHWAY; THENCE N.01°26'33"E., 139.22 FEET; TO THE NORTH LINE OF THE SOUTH 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION; THENCE S.87°10'49"E., 68.53 FEET ALONG SAID NORTH LINE OF THE SOUTH 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION; THENCE N.02°30'13"E., 220.69 FEET; THENCE S.87°29'47"E., 121.15 FEET PARALLEL WITH THE EAST-WEST 1/4 LINE OF SAID SECTION; THENCE S.25°30'00"E., 125.15 FEET PARALLEL WITH SAID CENTERLINE OF DIXIE HIGHWAY; THENCE S.87°29'47"E., 133.15 FEET PARALLEL WITH SAID EAST-WEST 1/4 LINE; THENCE S.25°30'00"E., 15.00 FEET PARALLEL WITH SAID CENTERLINE OF DIXIE HIGHWAY; THENCE S.87°29'47"E., 138.67 FEET PARALLEL WITH SAID EAST-WEST 1/4 LINE TO THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF SAID DIXIE HIGHWAY; THENCE S.25°30'00"E., 113.01 FEET ALONG SAID RIGHT-OF-WAY LINE TO THE NORTH LINE OF THE SOUTH 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION; THENCE S.87°10'49"E., 68.16 FEET ALONG SAID NORTH LINE OF THE SOUTH 1/2 OF THE SOUTHEAST 1/4 TO SAID CENTERLINE OF DIXIE HIGHWAY; THENCE S.25°30'00"E., 301.54 FEET ALONG SAID CENTERLINE OF DIXIE HIGHWAY TO THE POINT OF BEGINNING. SAID PARCEL CONTAINS 5.53 ACRES MORE OR LESS AND IS SUBJECT TO ANY AND ALL EASEMENTS, RESTRICTIONS AND/OR RIGHTS-OF-WAY, WHETHER USED, IMPLIED OR OF RECORD.

WITNESSES

SE COR (I-3) SEC 3 T09N-R06E
1" BAR IN MON BOX
S.45°E., 97.00' N/TAG IN POWER POLE
S.50°E., 94.60' N/TAG 27" STUMP
N.45°W., 50.50' N/TAG IN POWER POLE
N.45°W., 46.50' CEN OF OLD SIGN IN CONC

S 1/4 COR (H-3) SEC 3 T09N-R06E
1/2" BAR IN MON BOX
S.45°E., 57.50' N/TAG IN 18" MAPLE
SOUTH 61.40' N/TAG IN 12" OAK
N.30°W., 28.35' S FACE TEL PED
S.30°W., 51.30' N/TAG 30" ELM



TAX MAP
NOT TO SCALE

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Why We Work Safe

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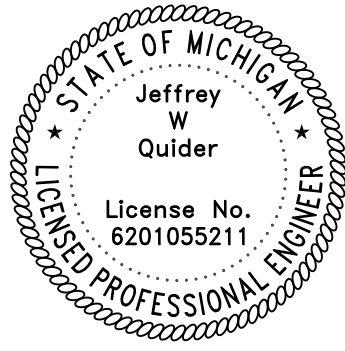
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Saginaw, Michigan 48604
Phone: (989) 754-6262
Fax: (989) 754-6263
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No.	Description	Date

SITE PLAN

Design Number D025043
Project number
Date December 15, 2025

Project Description:
R&R SILO
Address:
14151 N. Saginaw Rd.
Clio, MI. 48420
C1.01



SE. CORNER
SECTION 3, T09N-R06E
VIENNA TWP.

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTION AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE NOR ISSUE DIRECTION AS TO SAFETY PRECAUTION AND PROGRAMS.
3. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE TEMPORARY GLYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
6. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTION AND REQUIREMENTS.
7. LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE 'DESIGN CRITERIA NOTES'. DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
8. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
11. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.

1. ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE LATEST APPLICABLE EDITION OF THE ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY." HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
2. ALL CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS.
PROVIDE ENTRAINED AIR IN ALL EXPOSED CONCRETE
- FOOTINGS, GRADE BEAMS 4000 PSI
- SLAB ON GRADE 4000 PSI
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615, GRADE 60. SPLICES FOR DEFORMED BARS SHALL BE CLASS B WITH APPLICABLE INCREASES FOR BAR SPACING, COVER, TOP BAR EFFECT ETC. PER ACI 318
4. PROVIDE BENT CORNER BARS IN ALL WALLS AND FOOTINGS OF THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCEMENT.
5. WIRE MESH SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8"
6. PROVIDE AIR ENTRAINED CONCRETE FOR EXTERIOR EXPOSURES.
7. ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH.
8. ANY AREAS TO BE FILLED SHALL THEN BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D 1557.
9. UNLESS OTHERWISE APPROVED, ALL WELDED WIRE FABRIC SHALL BE BLOCKED INTO THE POSITION INDICATED WITH PRECAST CONCRETE BLOCKS HAVING A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB.
10. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS RAISED WITH 6x6 - W1, 4xW1.4 WWF UNLESS OTHERWISE NOTED.
11. SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/- 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
12. THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
13. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
14. CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3) CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH AT 7 AND 28 DAYS FOR EVERY 50 CUBIC YARDS OF CONCRETE CAST. ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD.

1. ALL FOOTINGS HAVE BEEN DESIGN BASED UPON AS ASSUMED SOIL BEARING PRESSURE OF 2,000 PSF. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER / TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
2. TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.
3. ALL FOUNDATION CONCRETE SHALL OBTAIN A 28 DAY COMPRESSIVE STRENGTH AS SCHEDULED. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/- 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
4. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - a. CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH - 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 THROUGH #18 BARS - 2"
 - #6 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2"
8. ALL REINFORCING BARRED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED 36 x BAR DIAMETERS AT SPLICES UNLESS OTHERWISE NOTED.
9. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.

PLATFORM FLOOR:	
LIVE LOAD	100 PSF
FLOORING	12 PSF
STEEL	10 PSF
SNOW LOADS	
GROUND SNOW LOAD	PG = 35 PSF
SNOW EXPOSURE FACTOR	CE = 1.0
THERMAL FACTOR MEZZANINE	CT = 1.2
BUILDING CATEGORY	II
IMPORTANCE FACTOR	IS = 1.0
WIND LOADS	
BASIC WIND SPEED	115 MPH
EXPOSURE CATEGORY	C
SEISMIC DESIGN DATA	
USE GROUP	II
SITE CLASS	D
SEISMIC DESIGN CATEGORY	A
GUARD/HANDRAIL LOADS = 50 PLF LOAD APPLIED IN ANY DIRECTION AT THE TOP AND 200 POUND CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. LOADS NOT ASSUMED TO ACT CONCURRENTLY.	

PIER SCHEDULE					
MARK	DIMENSIONS		REINFORCING BARS	HORIZONTAL TIES	T.O. PIER ELEV.
	W	L			
P-1	2'-4"	2'-4"	(20) #6 VERTICAL	#4 TIES @ 12" O.C. U.N.O.	103'-0"

FOOTING SCHEDULE					
MARK	DIMENSIONS			REINFORCING BARS	T.O. FTG. ELEV. U.N.O.
	W	L	D		
F-1	18'-6"	18'-6"	2'-0"	#6 BARS @ 12" O.C. EA. WAY T&B	98'-0"

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GENERAL NOTES & SCHEDULES

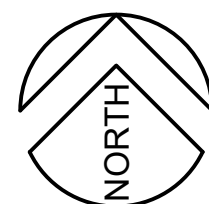
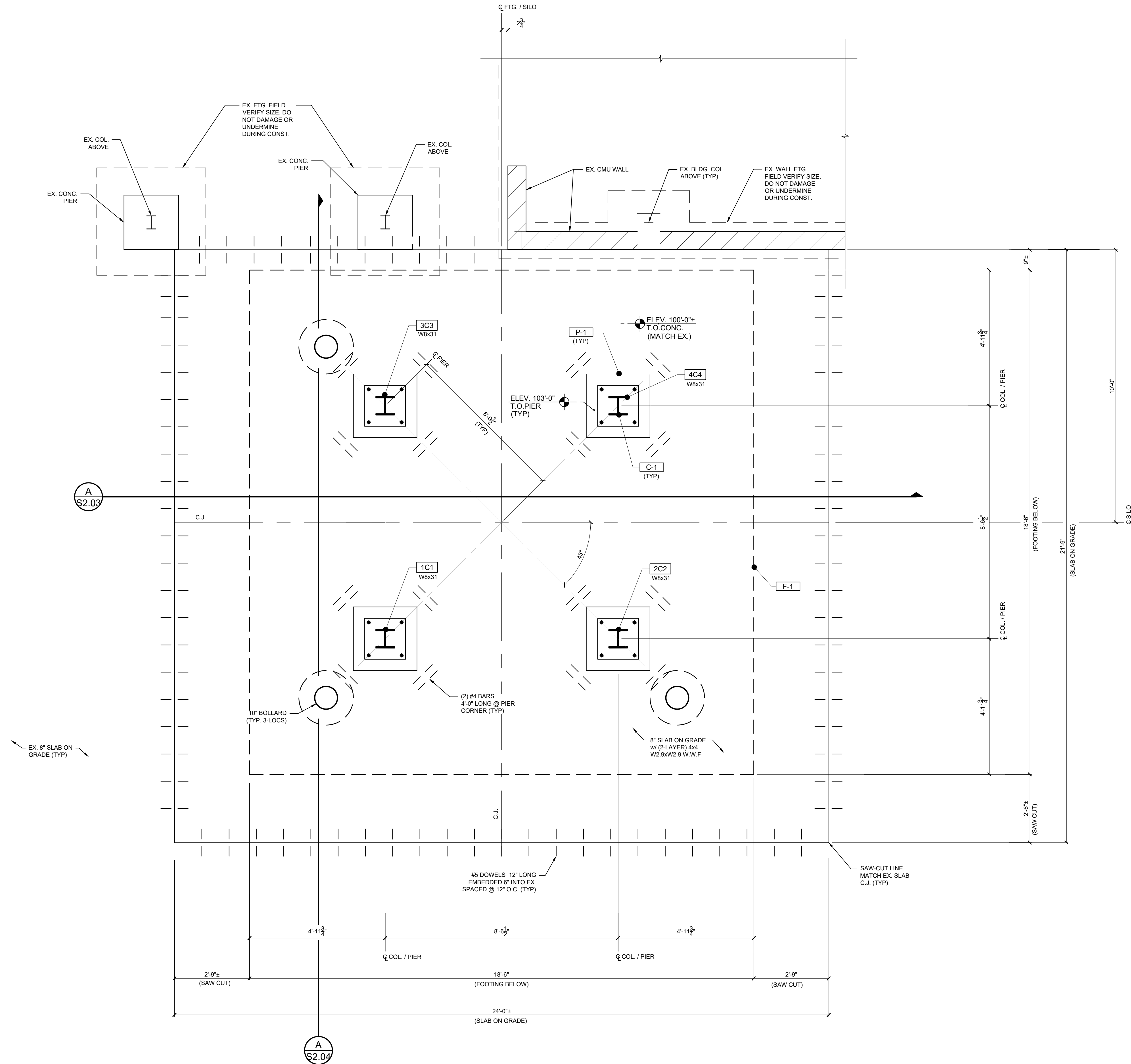
Design Number	
Project number	
Date	December 9, 2025

Project Description

R&R SILC

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Clio, MI. 48420

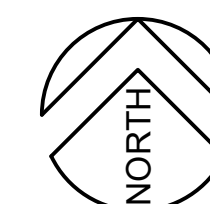
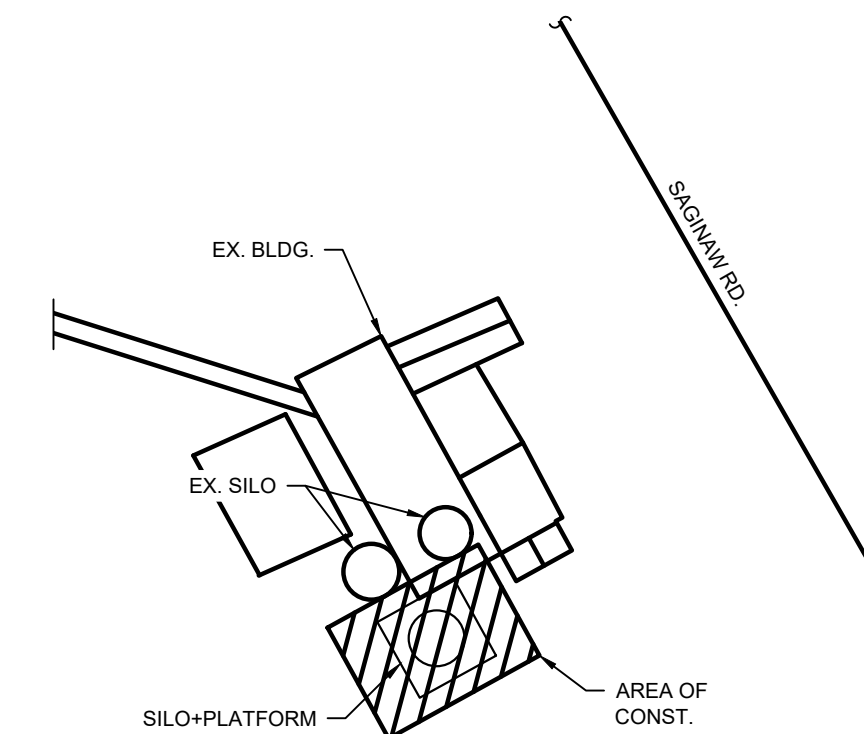
S1.01



SILO FOUNDATION PLAN

SCALE: 1/2"=1'-0"

NOTE:
FIELD VERIFY SAW CUT
LOCATION. MATCH NEAREST
CONTROL JOINT.



KEY PLAN

SCALE: NTS

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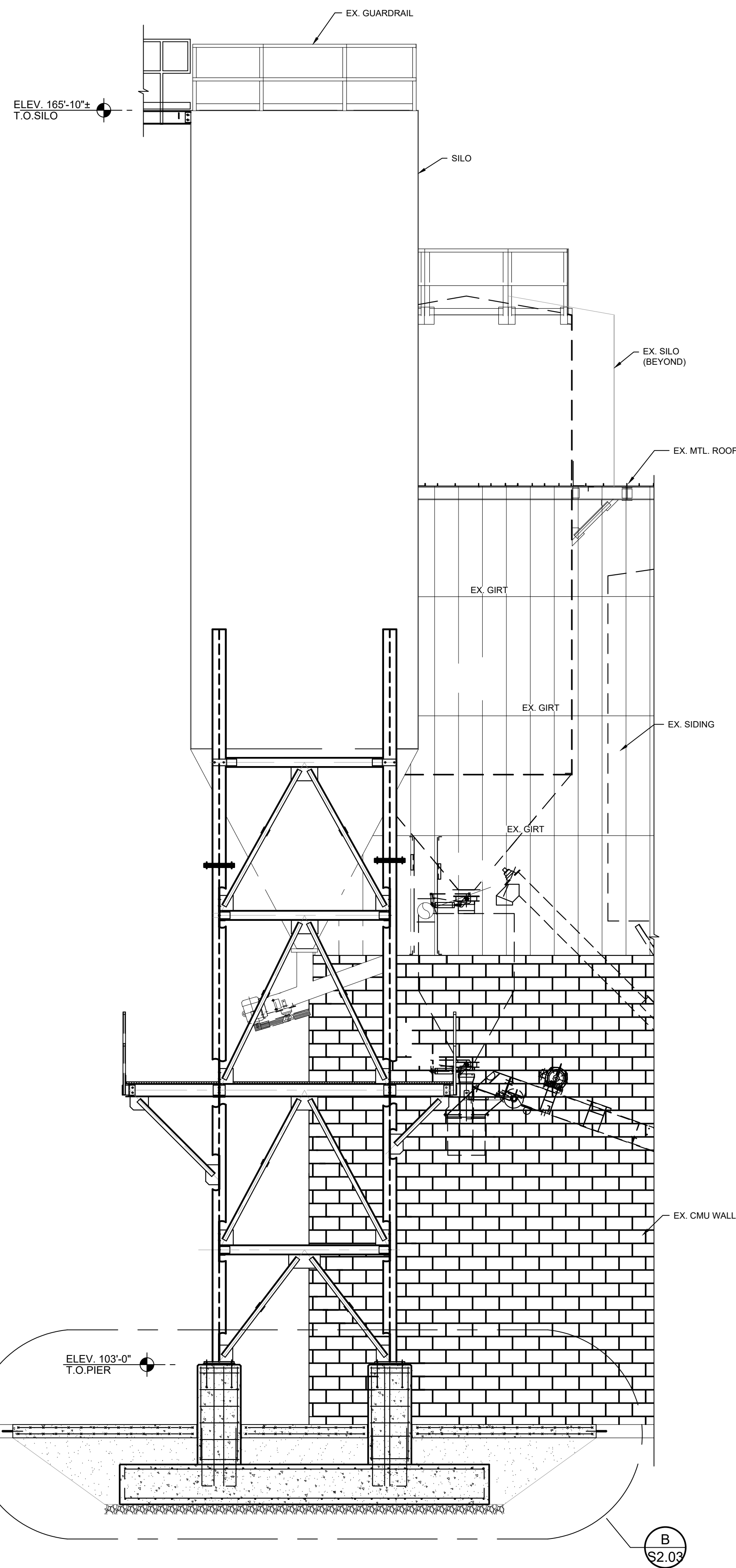
No.	Description	Date

SILO FOUNDATION PLAN

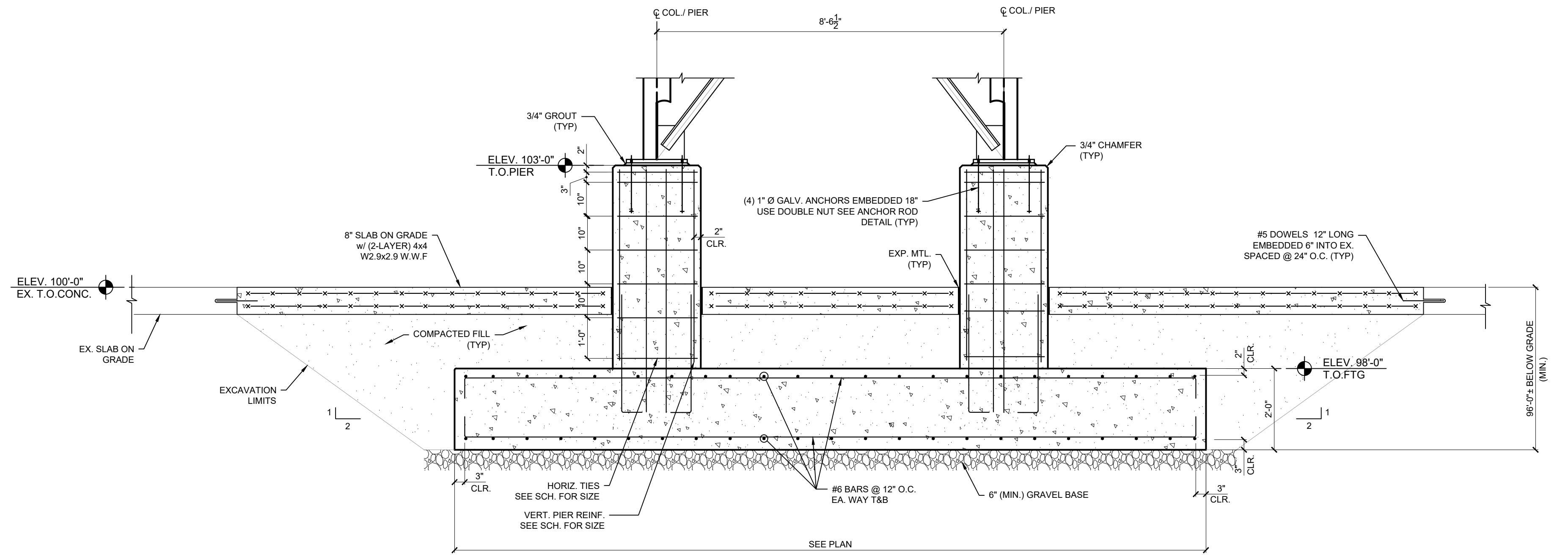
Design Number	
Project number	
Date	December 3, 2025

Project Description:
R&R SILO
Address:
14151 N. Saginaw Rd.
Clio, MI. 48420

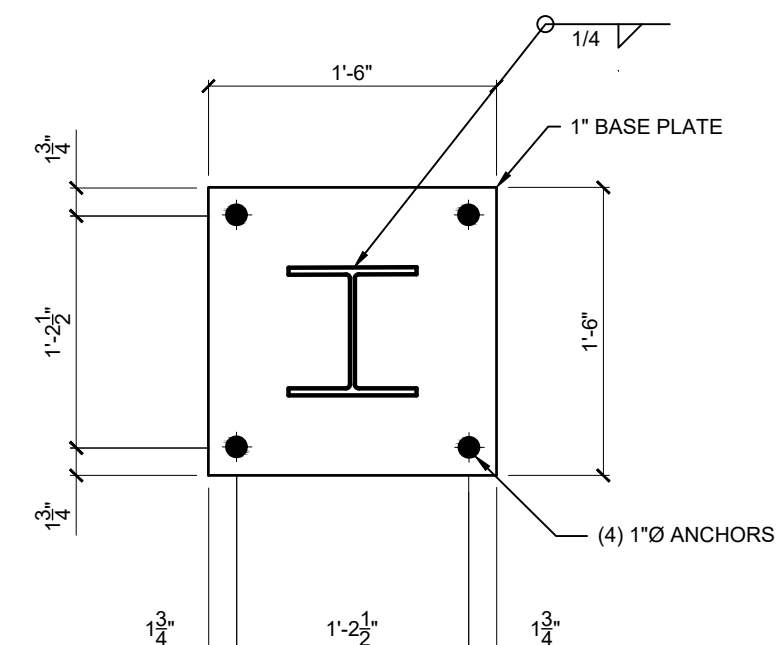
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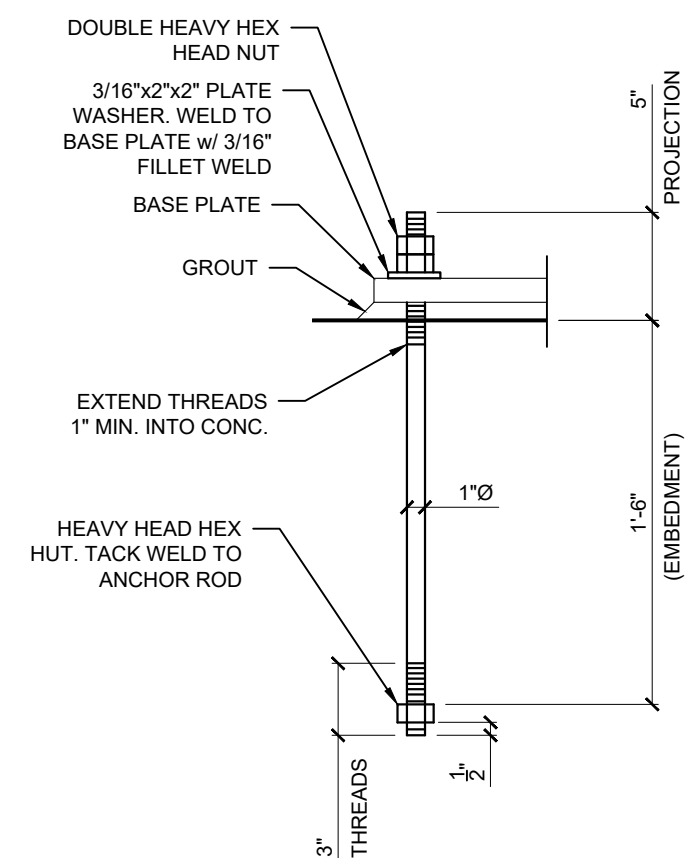
A
S2.03
SECTION
SCALE: 1/4"=1'-0"



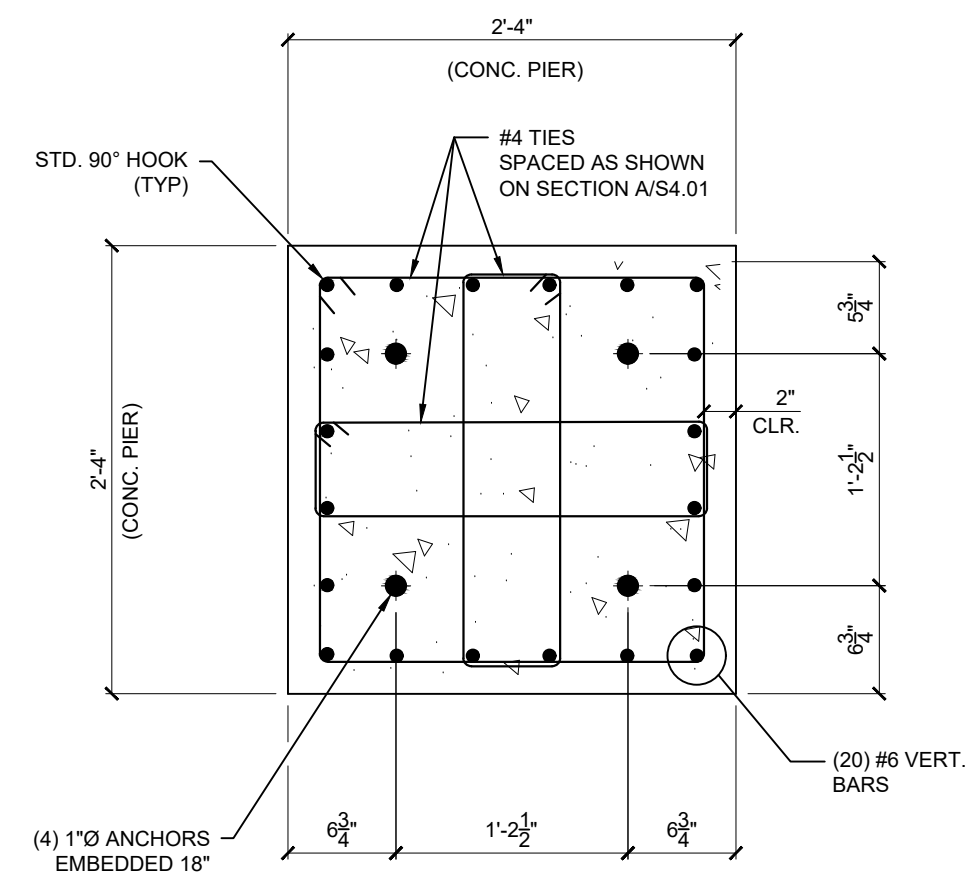
B
S2.03
SECTION
SCALE: 1/2"=1'-0"



TYP. BASE PLATE
SCALE: 1"=1'-0"



TYP. ANCHOR ROD
SCALE: 1 1/2"=1'-0"
NOTE: ANCHOR ROD+WASHERS AND NUTS TO BE GALV.



TYP. PIER P-1
SCALE: 1"=1'-0"

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No.	Description	Date

SECTIONS

Design Number
Project number
Date December 9, 2025

Project Description:
R&R SILO
Address:
14151 N. Saginaw Rd.
Clio, MI. 48420
S2.02