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Addendum Number One

DATE: May 18, 2023

PROJECT: ITD D4 Sublett Equipment Building

Malta, ID

PROJECT NO.: 22568

OWNER: Idaho Transportation Department

11331 W. Chinden Blvd., Bld. 8

Boise, Idaho 83714

ARCHITECT: Myers Anderson Architects, PLLC

122 South Main Street. Suite 1

Pocatello, Idaho 83204

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated April 2023.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of two (2) pages plus attachments. Total: Nine (9) pages.

General

- 1. The Prebid Attendance Sheet is attached for reference.
- 2. Project jurisdiction is through the State of Idaho. Building permits are based upon construction value and can be obtained through Idaho Division of Occupational and Professional Licenses building program.
- 3. The general contractor is responsible for all permits.
- 4. All materials required for building up the pad or grade around the building shall be imported. No stockpiled materials on site shall be used for construction of this project.
- 5. Water and power needed for construction can be obtained from existing site utilities.
- 6. A site superintendent shall be required on site at all times while work on the project is taking place.
- 7. Pre-engineered metal building design parameters are as follows:
 - a. Snow: Minimum roof snow load 30 psf
 - b. Wind: 115 mph Exposure C
 - c. Seismic:
 - i. Ss=0.375
 - ii. S1=0.125
 - iii. Site Class D
 - d. Collateral Dead Load: 5 psf

Substitutions

- 1. Specification Section 08 36 13 Sectional Doors:
 - a. Cloplay Approved Manufacturer
 - b. Wayne Dalton Approved Manufacturer
 - c. LiftMaster H-501-L5 W/HOIST Approved Door Operator Manufacturer

Drawings

- 1. Pre-finished metal roof panels shall be exposed fastened per the specification manual.
- 2. Drawing Sheet A400: Doors 101B, 103B, and 105B shall be included in the Base Bid. Disregard "Add Alternate # 1" note at top of door schedule. All overhead doors and operators shall be included in Add Alternate #1.
- 3. Replace structural drawing sheets S1.0, S1.1, S2.0, and S3.0 with the attached revised structural drawing sheets S1.0, S1.1, S2.0, and S3.0.
- 4. Add structural drawings sheets S2.0A and S3.0A to the bid documents.
- 5. Refer to structural drawing sheets S2.0 and S3.0 for base bid conditions. Refer to sheets S2.0A and S3.0A for interior and exterior apron slab on grade for Add Alternate #2.

Specifications

- 1. Specification Section 08 36 13 Sectional Doors:
 - a. Subsection 2.4 Track, paragraph E. Finishing: Delete "White, powder coat" and replace with Galvanized.
 - b. Subsection 2.6 Hardware: Delete paragraph D, no exterior lock and key required.
- 2. Specification Section 13 34 19 Metal Building Systems:
 - a. Subsection 2.8 Fabrication Wall and Roof Systems:
 - i. Paragraph A: change minimum siding gauge from 24 to 26. 1-3/16" deep ribs are acceptable.
 - ii. Paragraph B: change minimum roofing gauge from 24 to 26.
 - b. SSPC Paint 15 primer on primary framing is acceptable.

Attachments

Prebid Attendance Sheet
Sheet S1.0 – General Structural Notes
Sheet S1.1 – Typical Details
Sheet S2.0 – Foundation Plan
Sheet S2.0A – Foundation Plan A
Sheet S3.0 - Foundation Details
Sheet S3.0A – Foundation Details A

End of Addendum No. 1



PREBID CONFERENCE ATTENDANCE SHEET ITD D4 Sublett Equipment Building

Name	Company	Address	Phone/Fax
Matt Frankel	Myers Anderson	122 S. Main St., Suite 1	208-232-3741
Richard Creason	Architects	Pocatello, ID 83204	208-232-3782
Bryson Greer	ITD	11371 U Chander, ED	208-334-8098
Elizabeth Newland	Petersen Bros	1920 Highland Are E	208 537 4110
Kex Ward	GDJ	247 W Huy 30	208-404-2448
Burke Anderson	Hegiar Creek Elc	288 continual Dr.	208 431 1426
Julian Creder	GARY JONES CONSTOUTION	247 W. Hwy 30	208-678-1118
Colten Ethridge	I+D	2165 date	208320-7771
Mike Slowell	ITD	216 Stage	205-420-3321
Richard Stephenson	Bataman-Hall	1405 Toole Drive IF	208-523-2681
Andrew DiPietro	Richard Jordan	Boise Idaho	2084907595
locals lacksy		1-19	
Ammon Bindia	m Teton West	162 N Yellowstone	208-356-7973
		(21)19	

GENERAL REQUIREMENTS:

- 1. THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).
- BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWI FDGE OF THE INTERNATIONAL BUILDING

2. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE

CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

- 3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.
- 4. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN. CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
- 5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL. PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES. DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- 6. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT, SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.
- 7. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS, THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (5) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

BASIS FOR DESIGN:

- 1. BUILDING CODE: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS. RISK CATEGORY = II
- VERTICAL LOAD: PER PRE-ENGINEERED BUILDING MANUFACTURER
- 3. SEISMIC DESIGN PARAMETERS: PER PRE-ENGINEERED BUILDING MANUFACTURER
- 4. WIND DESIGN PARAMETERS: PER PRE-ENGINEERED BUILDING MANUFACTURER

FOUNDATION NOTES:

- 1. FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: ATLAS TECHNICAL CONSULTANTS, LLC REPORT NO. T222706g DATED February 13.
- 2. SITE PREPARATION AND GRADING REQUIREMENTS OF THE SOIL REPORT AND ANY ADDENDUM'S SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS OR INSPECTIONS REQUIRED BY THE SOIL REPORT SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.
- THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	2000 PSF
ALLOWABLE LATERAL BEARING PRESSURE	397 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.35

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH

30" BELOW FINISHED GRADE

- 4. ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERED FILL OR COMPETENT NATIVE SOIL SUBBASE COMPACTED TO 95% DRY DENSITY (AS DETERMINED BY ASTM D1557). OBJECTIONABLE SOIL TYPES, EXCESSIVELY LOOSE, OR SOFT SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL. GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
- 5. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH (MIN) LAYER OF FREE-DRAINING GRANULAR MAT (DRAINAGE FILL COURSE). THE MAT SHOULD CONSIST OF A WELL GRADED SAND AND GRAVEL MIXTURE WITH MAXIMUM 3/4-INCH CRUSHED AGGREGATE. THE GRANULAR MAT SHOULD BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. IF UNCONTROLLED FILL IS ENCOUNTERED, IT SHALL BE EXCAVATED A MINIMUM OF 12" BELOW EXISTING GRADE. AFTER EXCAVATION OF THE UNCONTROLLED FILL, IF PORTIONS OF UNCONTROLLED FILL REMAIN, IT SHALL BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. SUBGRADE SHALL BE BUILT UP WITH COMPACTED STRUCTURAL FILL. ORGANIC, LOOSE OR COMPRESSIVE MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

REINFORCING STEEL:

- ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.
- WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
- REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

CONCRETE:

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	MAX W/C RATIO	AIR ENTRAINMENT
FOOTINGS	3500 PSI	0.50	5.5% ± 1%
CONCRETE WALLS	4500 PSI	0.45	5.5% ± 1%
CONCRETE SLABS ON GRADE	4000 PSI	0.45	N/A
2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER			

- CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33.
- 3. LAP SPLICES FOR BEAMS AND FLOOR SLABS SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS

STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± 3/8"
SLABS ON GRADE	1½"	± 1/4"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1½"	± 3/8"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± 3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY) REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1½"	3/8"

- 5. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
- NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
- 7. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

8. ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED A MAXIMUM LENGTH OF 24 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS (EXAMPLE: 4" SLAB = 8'-0" LENGTH), SQUARE LAYOUTS ARE PREFERRED, BUT THE SLAB GEOMETRY MAY DICTATE OTHERWISE. THE RATIO OF THE LONG TO SHORT DISTANCE SHALL NOT EXCEED 1.3. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

- HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.
- 10. FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
- 11. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.
- 12. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
- 13. LIMIT ALKALI-SILICA REACTION (ASR) TO 0.1% EXPANSION AT 28 DAYS IN CONCRETE MIX AT ALL EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO MOISTURE.

SPECIAL INSPECTION ITEMS:

1. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED PER IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES

SOILS (IBC TABLE 1705.6) (W/ C	GEOTECH REPO	RT)
VERIFICATION AND INSPECTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	Х
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	×	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	Х

- QUALITY ASSURANCE PROGRAM:
 - THE SPECIAL INSPECTOR SHALL CERTAIN IT CONFORMS WITH TH SPECIFICATIONS.
 - B. THE SPECIAL INSPECTOR SHALL BUILDING OFFICIAL, AND TO THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL

ABBREVIATIONS			
	- AGGREGATE BASE COURSE	GLB (GLULAM)— —	- GLUED-LAMINATED BEAM
	- AIR CONDITIONER - ABOVE FINISHED FLOOR	I.F.W.	- INSIDE FACE OF WALL
	- ALTERNATE	K(KIP) — — — -	
A.B. — — —		L.L.	
	- AT (MEASUREMENT)	LBS (#)— — -	
BM — — —			- LONG LEG HORIZONTAL
	-BELOW FINISHED FLOOR		- LONG LEG VERTICAL
	-BOTTOM OF BEAM	MIN. — — — -	
	-BOTTOM OF DECK	MAX. — — — -	
	-BOTTOM OF FOOTING		- MANUFACTURER('S)
BRG — — —			- MASONRY CONTROL JOINT
C.I.P. — — —	- CAST IN PLACE	MECH'L	
C.L. — — —	- CENTERLINE	N/A	
C.L.B. — — —	-CENTERLINE OF BEAM	N.T.S.— — — -	- NOT TO SCALE
C.L.C. — — —	-CENTERLINE OF COLUMN	0.C. — — — -	ON CENTER
C.L.F. — — —	-CENTERLINE OF FOOTING	O.F.W.— — — -	- OUTSIDE FACE OF WALL
C.L.W. — — —	-CENTERLINE OF WALL	OPP. — — — -	
CLR — — —	- CLEAR	P.C. — — — -	- PRECAST CONCRETE
CONC — — —	- CONCRETE	PLF	- POUNDS PER LINEAR FOOT
C.C.J. — — —	- CONCRETE CONTROL JOINT	PREFAB — — -	- PREFABRICATED
C.S.J. — — —	-CONCRETE SAWCUT JOINT	PSF — — — -	- POUNDS PER SQUARE FOOT
	-CONCRETE MASONRY UNIT	PSI — — — -	- POUNDS PER SQUARE INCH
CONN.— — —	- CONNECTION	REINF.— — — -	- REINFORCING
CONT. — — —	- CONTINUOUS	SLH	- SHORT LEG HORIZONTAL
D.L. — — —	-DEAD LOAD	SLV	- SHORT LEG VERTICAL
ø OR DIA.— —	- DIAMETER	SIM. — — — —	- SIMILAR
DN. — — —		SQ. <i></i>	- SQUARE
DWG(S)— — —	-DRAWING(S)	STD — — — —	- STANDARD
E.O.S. — — —	-EDGE OF SLAB	T.L. — — — -	- TOTAL LOAD
EQ. — — —		T.O.B.— — — -	
EQUIP.— — —		T.O.D.— — — -	
	-EXPANSION BOLT	T.O.F.— — — -	
	-EXPANSION JOINT	T.O.L.— — — -	
	- EXISTING		- TOP OF MASONRY
E.W. — — —		T.O.P.— — — -	
F.F. — — —	-FINISHED FLOOR	T.O.S.— — — -	
	-FACE OF MEMBER		
	-FACE OF STEEL	TYP. — — — -	
	-FACE_OF_WALL		- UNLESS NOTED OTHERWISE
GA. — — —	- GAUGE	VERT — — — -	
GALV. — — —	- GALVANIZED		- WELDED WIRE FABRIC
GSN — — —	- GENERAL STRUCTURAL NOTES	W/,	
		w/o	- WITHOUT

TO THE BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

COMPACTED	-	Х	O C	itectu or Desig c Prese n Street
ES AND LIFT CTION OF	X	-		Archi Interio Histori
NSPECT PREPARED	-	X		122 %
	THE WORK ASSIGI ED DESIGN DRAWI		GINEER	
HE STRUCTUI	INSPECTION REPORED OF THE IMMEDIATE ATT	RECORD. ALL	ONAL ENSE	116/23

FOR BID ONLY -NOT FOR CONSTRUCTION

Q

SHEET TITLE:

GENERAL STRUCTURAL **NOTES**

CONTRACTOR SHALL VERIFY

ALL DIMENSIONS & CONDITIONS

SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO

22" X 34" SHEET SIZE

	SHEET INDEX	
SHEET	DESCRIPTION	DETAILS
S1.0	GENERAL STRUCTURAL NOTES	
S1.1	TYPICAL DETAILS	T-SERIES
S2.0	FOUNDATION PLAN	
S2.0A	FOUNDATION PLAN A	
S3.0	FOUNDATION DETAILS	100-SERIES
S3.0A	FOUNDATION DETAILS A	100-SERIES

This drawing is the property of FROST Structural Engineering, Inc. Legally, the drawing can NOT be copied in whole or in pieces. It is or to be used for the project and site specifically identified hereon and is not to be used on any other project. Contractor shall carefully revie all dimensions, details, and conditions and report at once any error, inconsistency or omission discovered before construction. The contractor assumes full liability for deviations from the intent of these plans.

contact@frost-structural.com

PROJECT MANAGER: DBP CAD OPERATOR: RMS

Idaho Falls, ID 83401

FROST Structural Engineering 1020 E. Lincoln Road phone: 208.227.8404

DATE:

fax: 208.227.8405

DRAWN

DB

NUMBER: CLJOBNUM

5/16/2023

KEYNOTES: 1. FINISHED GRADE WHERE OCCURS DO NOT EXCAVATE A TRENCH CLOSER THAN A 45 DEGREE ANGLE TO BELOW BOTTOM FOOTING OR FOUNDATION FOR CONSTRUCTION ABOVE



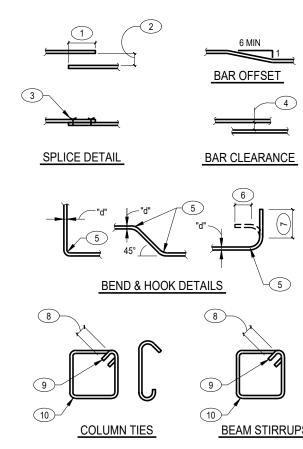
- 2. DEPRESSED CONCRETE SLAB 3. (2) #5x4'-0" BARS AT EACH CORNER OF DEPRESSED SLAB WHERE CONTROL/CONSTRUCTION JOINTS DO NOT EXTEND FROM CORNER
- 4. (2) #5x4'-0" BARS WHERE CONTROL/CONSTRUCTION JOINTS DO NOT CONTINUE BEYOND INTERSECTION
- 5. EXTERIOR WALL CORNER 6. INTERIOR SLAB ON GRADE, SEE PLAN

4

7

LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCEMENT (PLAN VIEW)

7. (2) #5x4'-0" AT EXTERIOR WALL CORNER WHERE CONTROL/CONSTRUCTION JOINTS DO NOT INTERSECT CORNER



2. MAXIMUM 1/5 LAP BUT NOT MORE THAN 6" WIRE TIES 4. 1d (1" MINIMUM) 5. RADIUS = 3d FOR BARS NOT OVER #8; 4d FOR #9, #10, AND #1 BARS; 5d FOR #14 AND #18 BARS, 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK 6. 4D (4" MINIMUM) 7. 12d (90 DEGREE HOOK) 8. 6d (4" MINIMUM) 9. 135 DEGREE BEND AROUND $2\frac{1}{2}$ " PIN FOR #5 BARS.

KEYNOTES:

1. LAP - SEE G.S.N.

FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS. 4

 STEM WALL CONCRETE FOOTING 3. 1'-6" MAXIMUM - WHERE TRENCH EXCEEDS 1'-6" NOTIFY STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF FOOTINGS 4. BACKFILL AND RECOMPACT TRENCH PER SOILS REPORT AND SPECIFICATIONS BOTTOM OF TRENCH

KEYNOTES:

A. DO NOT UNDERCUT EXISTING FOOTINGS B. NO PIPES OR OTHER UTILITIES SHALL

KEYNOTES:

1. SLOPED FINISH GRADE

4. CONCRETE FOOTING

MINIMUM

2. MINIMUM FOOTING DEPTH PER G.S.N. - 12"

3. DEEPEN FOOTING AS REQUIRED TO ACCOUNT FOR SLOPED GRADE

PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS TRENCH PARALLEL TO CONTINUOUS STRAP FOOTING

FOOTING, SEE DETAILS. 3. BOTTOM OF CONCRETE FOOTING 4. BOTTOM OF TRENCH

·<u>+</u>----

A. DO NOT UNDERCUT EXISTING FOOTINGS

KEYNOTES:

CONCRETE FOOTING

3. PIPE OR CONDUIT

5. STEM WALL

2. SLEEVE - PROVIDE ½" MINIMUM CLEARANCE AROUND PIPE OR CONDUIT

 CONCRETE FILL TO BE PLACED BEFORE FOOTING IS POURED - FORM SAME AS FOOTING AND POUR FULL WIDTH OF PIPE

A. NO PIPE SHALL PASS THRU FOOTING OR UNDER COLUMN FOOTINGS. FOR TRENCHES GREATER THAN 3'-6" BELOW

BELOW WALL FOOTING DETAIL.

BOTTOM OF FOOTING, SEE PIPE PASSING

B. NO PIPE OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

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EQUIPMEN

ITD SUBLET BUILDING

SHEET TITLE:

TYPICAL DETAILS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS

SHOWN OR IMPLIED DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

DRAWN DB

CB NUMBER: CLJOBNUM

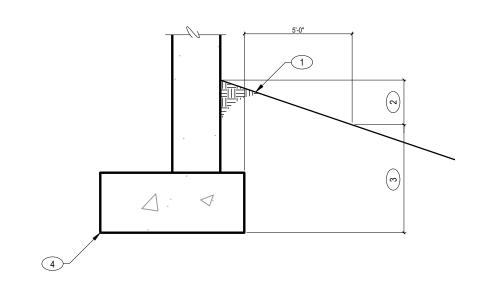
PROJECT 5/16/2023

10. BEND AROUND 1½" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND BEAM STIRRUPS PIPE PASSING BELOW FOOTING IN DEEP TRENCH TYPICAL REINFORCING DETAILS

	CLASS B TENSION SPLICE LENGTHS						
BAR	f'c = 3,0	000 PSI	f'c = 4,0	000 PSI	f'c = 5,0	000 PSI	
SIZE	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HOIRZONTAL BARS W/>12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HOIRZONTAL BARS W/>12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	
#3	12"	12"	12"	12"	12"	12"	
#4	19"	15"	17"	13"	15"	12"	
#5	29"	23"	26"	20"	23"	18"	
#6	32"	25"	28"	21"	25"	19"	
#7	54"	41"	47"	36"	42"	32"	
#8	70"	54"	61"	47"	54"	42"	
#9	89"	68"	77"	59"	69"	53"	
#10	140"	07"	07"	75"	07"	67"	

- 1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE

2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS AND WALLS SHALL BE CLASS "B" TENSION LAP



NOTE:

A. FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS

1. CONCRETE SLAB ON GRADE

3. SAWCUT ½" WIDE x ½" SLAB THICKNESS IN DEPTH - CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE

CRACKING, BUT NOT SO SOON AS TO

CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE

COMPLETE WITHIN 16 HOURS OF CONCRETE PLACEMENT.

2. CONT KEYED JOINT

PIPE PASSING UNDER WALL FOOTING IN SHALLOW TRENCH

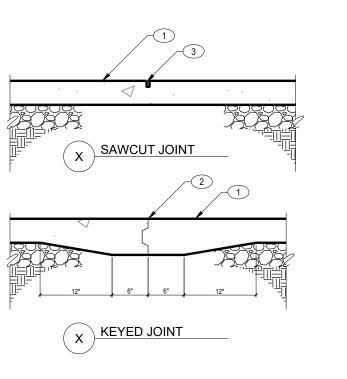
4

2. SIDEWALK, PAVEMENT, OR FINISH GRADE 3. SLEEVE, 8"Ø MAX, PROVIDE ½" MINIMUM CLEARANCE AROUND PIPE-CONDUIT 4. CONCRETE WALL, SEE PLAN 5. CONCRETE FOOTING, SEE PLAN 6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN 7. PIPE OR CONDUIT

NOTE:
A. NO PIPE SHALL PASS THROUGH FOOTINGS OR UNDER COLUMN FOOTINGS. FOR ADDITIONAL INFORMATION SEE PLANS AND DETAILS

1. WALL AS OCCURS, SEE PLAN

B. MULTIPLE PIPES/CONDUIT SLEEVES ALLOWED PROVIDED SLEEVES ARE SPACED W/ MINIMUM OF 2x SLEEVE DIAMETER BETWEEN SLEEVES C. SLEEVES SHALL NOT OCCUR WITHIN 12" OF POINT LOADS OR HOLDOWN ANCHORS



A. KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT

UNLESS SPECIFICALLY NOTED ON THE B. "TOOL WET JOINT", "ZIP STRIP", ETC SHALL MATCH SAWCUT REQUIREMENTS

CONTROL JOINTS IN CONCRETE SLAB ON GRADE

TYPICAL PIPE THROUGH STEM WALL

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tructural Engineering phone: 208.227.8404 1020 E. Lincoln Road Idaho Falls, ID 83401

contact@frost-structural.com

fax: 208.227.8405

MEMBER BELOW THE REINFORCEMENT. STEEL REINFORCING LAP SPLICES IN CONCRETE

TYPICAL DETAIL FOR FOUNDATION EMBEDMENT

		WALL (W)	SCHEDULE	
MARK	THICKNESS AND TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	8" CONCRETE	#4 AT 18" O.C.	#4 AT 12" O.C.	

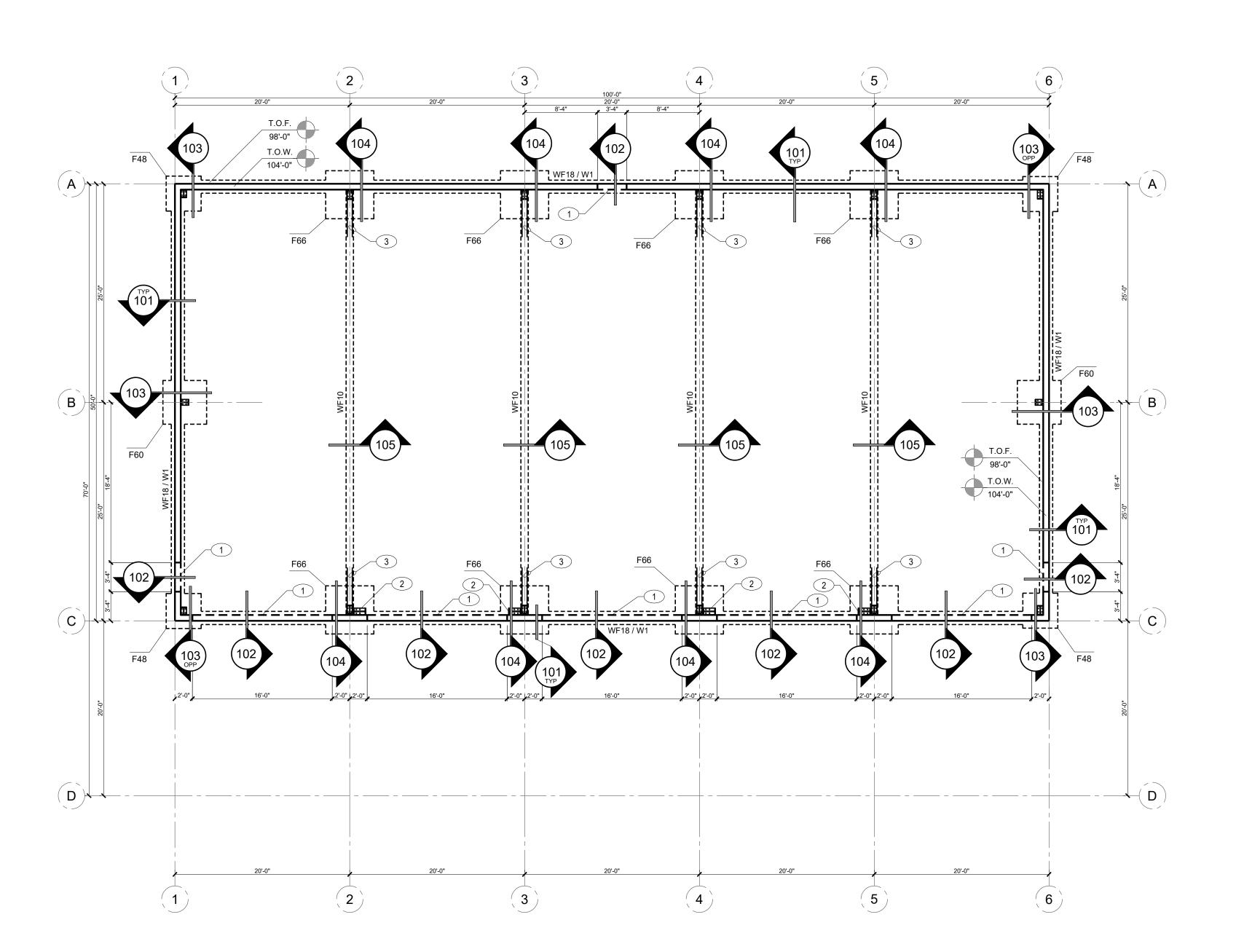
(X PLAN KEYNOTES
1.	VERIFY DOOR OPENING W/ ARCH DRAWINGS.
2.	PROVIDE 24" DIAMETER OR 22" SQUARE CONCRETE PIER W/ (12) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER BELOW PORTAL FRAME COLUMN, SIM TO DETAIL 104
3.	(1) #6x10'-0" LONG (5'-0" EACH LEG) HAIRPIN.

	FOOTING SCHEDULE						
NOTES: 1. FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS. 2. FOR MINIMUM CLEARANCE (CLR) OF REINFORCING, SEE GENERAL STRUCTURAL NOTES (GSN).							
MARK	LENGTH	WIDTH	THICKNE SS	FOOTING REINFORCING	REMARKS		
F60	60"	60"	12"	(4) #5 EACH WAY, TOP AND BOTTOM			
F66	66"	66"	12"	(5) #5 EACH WAY, TOP AND BOTTOM			
WF10	CONT	10"	8"	(2) #6 CONT, CENTERED			
WF18 CONT 18" 12" (2) #4 CONT, BOTTOM STRIP FOOTING							

ULE			HEADED ANCHOR ROD EMBED SCHEDULE			
RAL STRUCTURAL NOTES (GSN).			DIAMETER	MINIMUM EMBEDMENT (FROM TOP OF PIER/WALL)		
RCING	REMARKS		1/2"	12"		
ND BOTTOM			⁵ / ₈ "	14"		
ND BOTTOM			3/4"	16"		
ERED	STRIP FOOTING		7/8"	18"		
TOM			1"	20"		
			11/4"	25"		

l	FOUNDATION PLAN NOTES
r	

- VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL
- . ALL SCHEDULED MARK DESIGNATIONS MAY NOT
- NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
- THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
- D. W1, W2, ETC. AS SHOWN ON PLAN INDICATES CONCRETE OR MASONRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.
- . WF18, WF24, ETC. AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
- F36, F48, ETC. AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
- . COLUMN FOOTING SIZES ARE PRELIMINARY SIZES TO BE VERIFIED BY STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION. PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS PRIOR TO FABRICATING BUILDING COMPONENTS.
 CALCULATIONS SHALL SHOW ALL FOOTING LOAD PER METAL BUILDING MANUFACTURER'S ASSOCIATION "RECOMMENDED DESIGN PRACTICES MANUAL".



BASE BID - NO CONCRETE SLAB

FOUNDATION PLAN

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tructural Engineering

phone: 208.227.8404 fax: 208.227.8405 1020 E. Lincoln Road Idaho Falls, ID 83401 contact@frost-structural.com

SHEET TITLE:

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE PROJECT MANAGER: DBP CAD OPERATOR: RMS JOB NUMBER: **CLJOBNUM**

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CONSTRUCTION

FOUNDATION PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

WALL (W) SCHEDULE						
MARK	THICKNESS AND TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS		
W1	8" CONCRETE	#4 AT 18" O.C.	#4 AT 12" O.C.			

•	(X PLAN KEYNOTES
	1.	VERIFY DOOR OPENING W/ ARCH DRAWINGS.
1	2.	(1) #5x10'-0" LONG (5'-0" EACH LEG) HAIRPIN.
4	3.	(1) #6x15'-0" LONG (7'-6" EACH LEG) HAIRPIN.
	4.	PROVIDE 24" DIAMETER OR 22" SQUARE CONCRETE PIER W/ (12) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8"

O.C. REMAINDER BELOW PORTAL FRAME COLUMN, SIM TO

SLOPE FLOOR TO FLOOR DRAIN CATCH BASIN, COORDINATE

W/ ARCH DRAWINGS.

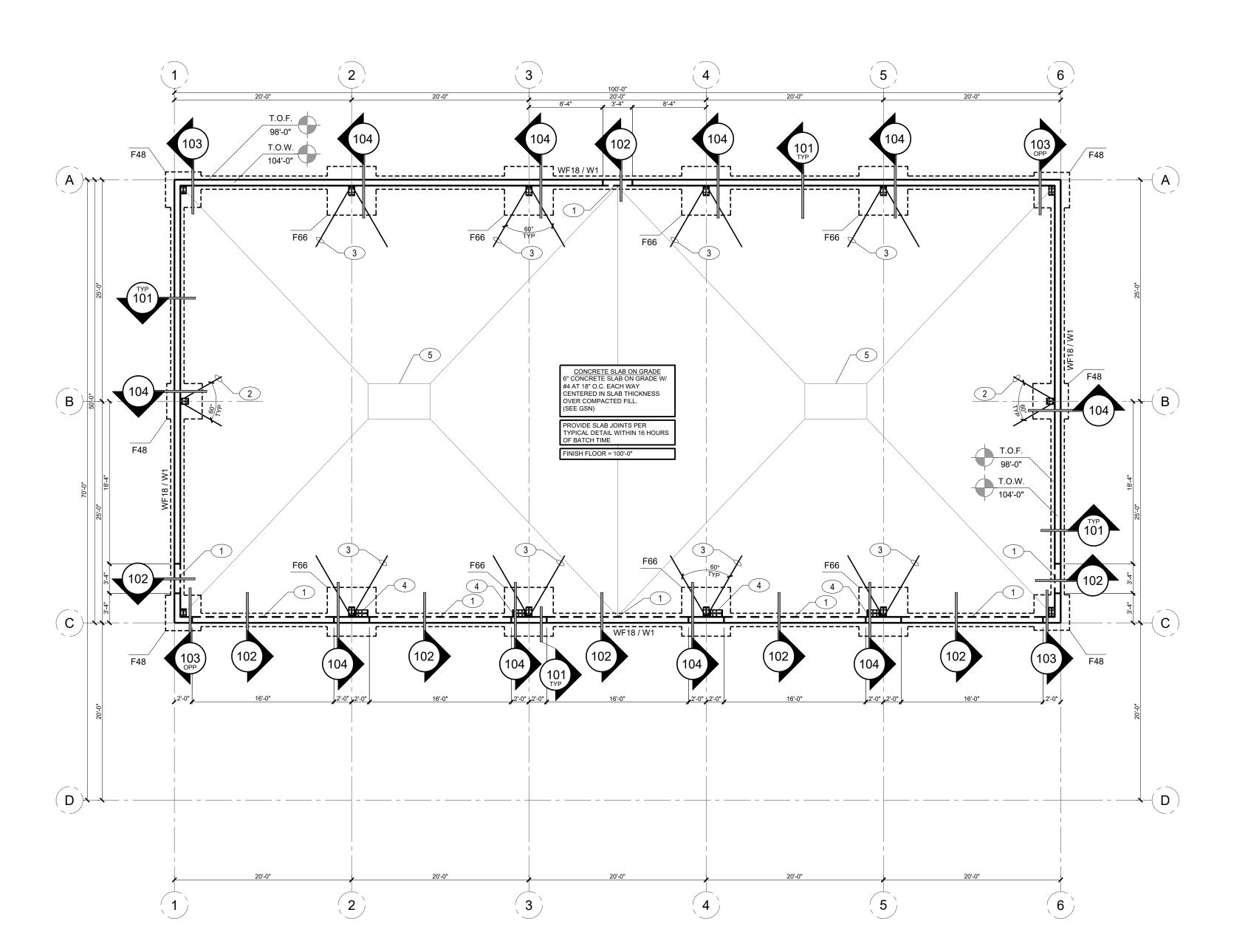
	FOOTING SCHEDULE							
NOTES: I. FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS. 2. FOR MINIMUM CLEARANCE (CLR) OF REINFORCING, SEE GENERAL STRUCTURAL NOTES (GSN).								
MARK	LENGTH	WIDTH	THICKNE SS	FOOTING REINFORCING	REMARKS			
F48	48"	48"	12"	(4) #4 EACH WAY TOP AND BOTTOM				
F66	66"	66"	12"	(5) #5 EACH WAY TOP AND BOTTOM				
WF18 CONT 18" 12" (2) #4 CONT BOTTOM STRIP FOOTING								

FOOTING SCHEDULE						HEADED ANCHOR ROD EMBED SCHEDULE		
	TRUCTION ABOVE FOOTING, SEE DETAILS. JM CLEARANCE (CLR) OF REINFORCING, SEE GENERAL STRUCTURAL NOTES (GSN).						MINIMUM EMBEDMENT (FROM TOP OF PIER/WALL)	
LENGTH	WIDTH	THICKNE SS	FOOTING REINFORCING	REMARKS		1/2"	12"	
48"	48"	12"	(4) #4 EACH WAY TOP AND BOTTOM			5/8"	14"	
66"	66"	12"	(5) #5 EACH WAY TOP AND BOTTOM			3/4"	16"	
CONT	18"	12"	(2) #4 CONT BOTTOM	STRIP FOOTING		7/8"	18"	
						1"	20"	
						11/4"	25"	

		HEADED		F	
		DIAMETER	MINIMUM EMBEDMENT (FROM TOP OF PIER/WALL)	A.	VERIFY A
		1/2"	12"	В.	ALL SCH
-]	5/8"	14"	C.	TYPICAL THE DEP	
	3/4"	16"	CO0 TO I	IS A MINII COORDIN TO INSUE	
	7/8"	18"	_	WORK. S	
	1"	20"	D.	W1, W2, E	

FOUNDATION PLAN NOTES

- Y ALL DIMENSIONS WITH ALL ARCHITECTURAL
- CHEDULED MARK DESIGNATIONS MAY NOT SSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE AL TO THIS PROJECT.
- EPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. NIMUM. FOUNDATION CONTRACTOR SHALL DINATE WITH THE SOILS REPORT AND OTHER TRADES SURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE . SEE TYPICAL DETAILS FOR ADDITIONAL
- 2, ETC. AS SHOWN ON PLAN INDICATES CONCRETE OR NRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL
- . WF18, WF24, ETC. AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
- F36, F48, ETC. AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL
- . COLUMN FOOTING SIZES ARE PRELIMINARY SIZES TO BE VERIFIED BY STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION. PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS PRIOR TO FABRICATING BUILDING COMPONENTS.
 CALCULATIONS SHALL SHOW ALL FOOTING LOAD PER METAL BUILDING MANUFACTURER'S ASSOCIATION "RECOMMENDED DESIGN PRACTICES MANUAL".



ADD ALTERNATE #2 - CONCRETE SLAB

FOUNDATION PLAN A

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PROJECT MANAGER: DBP CAD OPERATOR: RMS

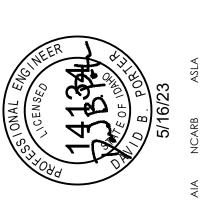
tructural Engineering 1020 E. Lincoln Road

Idaho Falls, ID 83401

phone: 208.227.8404 fax: 208.227.8405 contact@frost-structural.com

\$2.0A

JOB NUMBER: CLJOBNUM



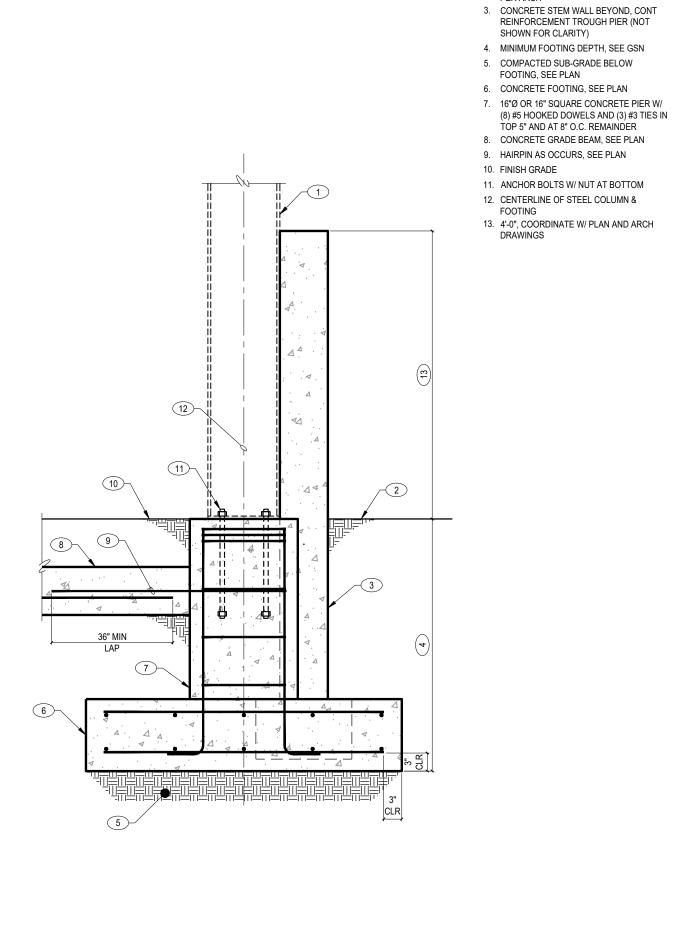
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EQUIPMENT

SHEET TITLE:

FOUNDATION PLAN A

ALL DI	MENSIONS	OR SHALL VERIFY DNS & CONDITIONS I OR IMPLIED		
DRA	wing sca 22" x 34" s	LE APPLIES TO SHEET SIZE		
REVISION		DATE		
####				
####				
####				
DRAWN BY:	DB			
CHECKED BY:	СВ			



PRE-ENGINEERED COLUMN AT CONCRETE FOOTING

KEYNOTES:

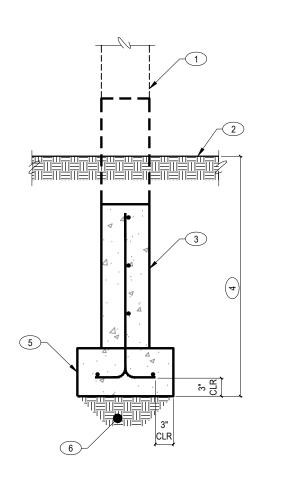
1. PRE-ENGINEERED COLUMN, SEE PLAN

KEYNOTES: 1. FINISH GRADE

2. CONCRETE GRADE BEAM, SEE PLAN

COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN

2. SIDEWALK, PAVEMENT, OR FINISH GRADE



PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

KEYNOTES: 1. PRE-ENGINEERED COLUMN, SEE PLAN 2. SIDEWALK, PAVEMENT, OR FINISH GRADE

KEYNOTES:

1. PRE-ENGINEERED BUILDING BEYOND

3. CONCRETE STEM WALL, SEE PLAN

5. CONCRETE FOOTING, SEE PLAN

6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN

4. MINIMUM FOOTING DEPTH, SEE GSN

2. FINISH GRADE

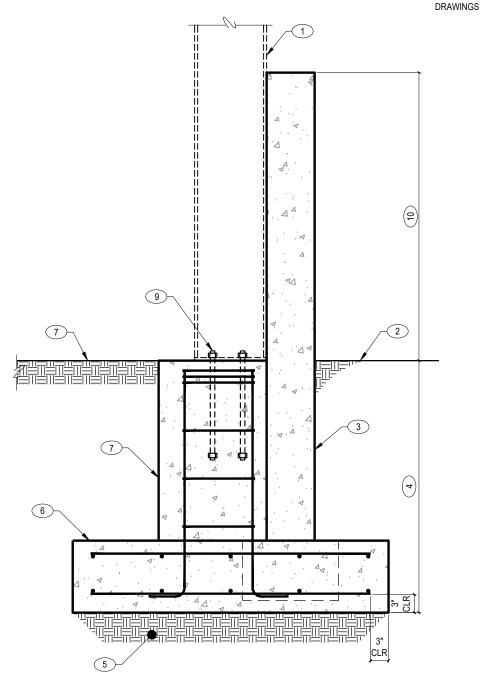
PER ARCH 3. CONCRETE STEM WALL BEYOND, CONT REINFORCEMENT TROUGH PIER (NOT

SHOWN FOR CLARITY) 4. MINIMUM FOOTING DEPTH, SEE GSN

5. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN

6. CONCRETE FOOTING, SEE PLAN 7. 16"Ø OR 16" SQUARE CONCRETE PIER W/ (8) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER 8. FINISH GRADE

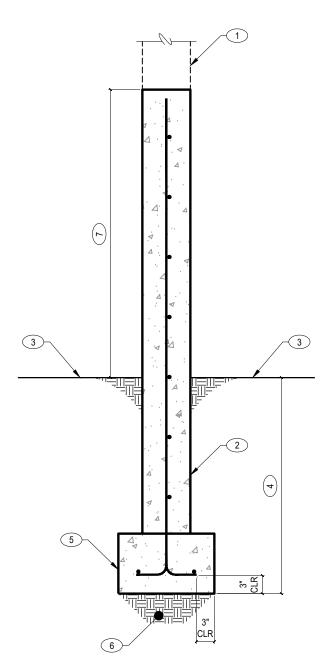
9. ANCHOR BOLTS W/ NUT AT BOTTOM 10. 4'-0", COORDINATE W/ PLAN AND ARCH



KEYNOTES:

- 1. PRE-ENGINEERED BUILDING 2. CONCRETE STEM WALL, SEE PLAN
- 3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH 4. MINIMUM FOOTING DEPTH, SEE GSN
- 5. CONCRETE FOOTING, SEE PLAN
- 6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN

7. 4'-0", COORDINATE W/ PLAN AND ARCH DRAWINGS



PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

FOUNDATION

DETAILS

SHEET TITLE:

FOR BID ONLY -

NOT FOR CONSTRUCTION

EQUIPMENT

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

DB

СВ NUMBER: CLJOBNUM

PROJECT 5/16/2023

BASE BID - NO CONCRETE SLAB

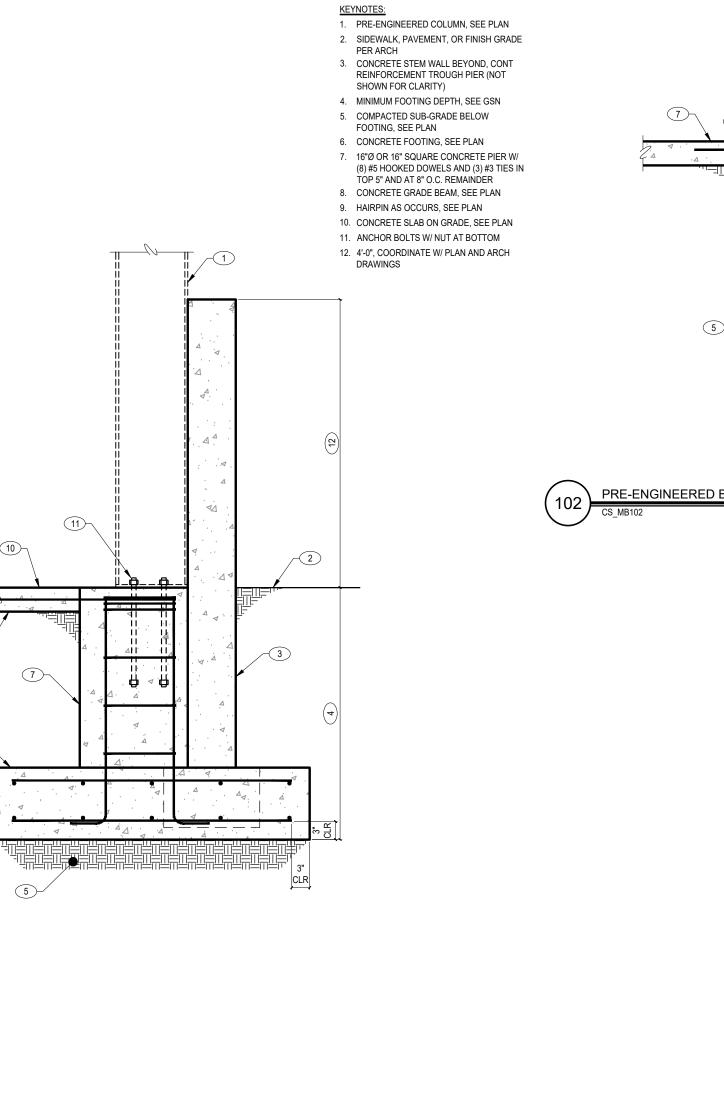
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ructural Engineering 1020 E. Lincoln Road

CONCRETE GRADE BEAM AT FINISH GRADE

PRE-ENGINEERED COLUMN AT CONCRETE FOOTING

phone: 208.227.8404 fax: 208.227.8405 Idaho Falls, ID 83401 contact@frost-structural.com



PRE-ENGINEERED COLUMN AT CONCRETE FOOTING

PER ARCH 4. MINIMUM FOOTING DEPTH, SEE GSN 5. CONCRETE FOOTING, SEE PLAN 6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN 7. CONCRETE SLAB ON GRADE, SEE PLAN 8. #4 BENT DOWEL AT 18" O.C.

PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

1. PRE-ENGINEERED COLUMN, SEE PLAN 2. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH

PRE-ENGINEERED BUILDING BEYOND

3. SIDEWALK, PAVEMENT, OR FINISH GRADE

2. CONCRETE STEM WALL, SEE PLAN

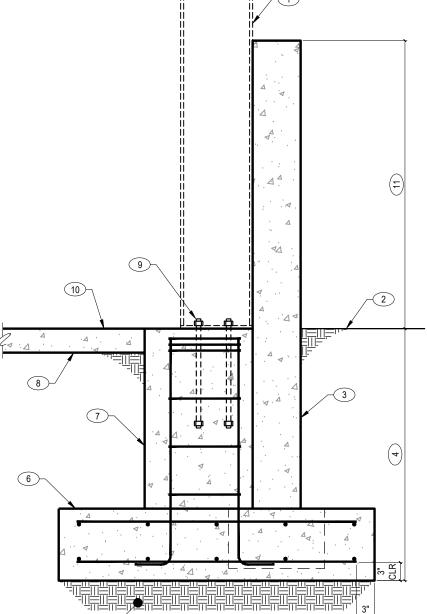
3. CONCRETE STEM WALL BEYOND, CONT REINFORCEMENT TROUGH PIER (NOT SHOWN FOR CLARITY)

4. MINIMUM FOOTING DEPTH, SEE GSN 5. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN

6. CONCRETE FOOTING, SEE PLAN 7. 16"Ø OR 16" SQUARE CONCRETE PIER W/ (8) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER

8. CONCRETE GRADE BEAM, SEE PLAN 9. ANCHOR BOLTS W/ NUT AT BOTTOM 10. CONCRETE SLAB ON GRADE, SEE PLAN 11. 4'-0", COORDINATE W/ PLAN AND ARCH

DRAWINGS



KEYNOTES:

- 1. PRE-ENGINEERED BUILDING 2. CONCRETE STEM WALL, SEE PLAN
- 3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
- 4. MINIMUM FOOTING DEPTH, SEE GSN 5. CONCRETE FOOTING, SEE PLAN
- COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
- 7. CONCRETE SLAB ON GRADE, SEE PLAN
- 8. 4'-0", COORDINATE W/ PLAN AND ARCH DRAWINGS

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EQUIPMENT

SHEET TITLE:

FOUNDATION

DETAILS A

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

DRAWN DB

CHECKED CB

NUMBER: CLJOBNUM PROJECT 5/16/2023

PRE-ENGINEERED COLUMN AT CONCRETE FOOTING

JOB NO.: IF22-452

PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

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ructural Engineering

PROJECT MANAGER: DBP CAD OPERATOR: RMS

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ADD ALTERNATE #2 - CONCRETE SLAB