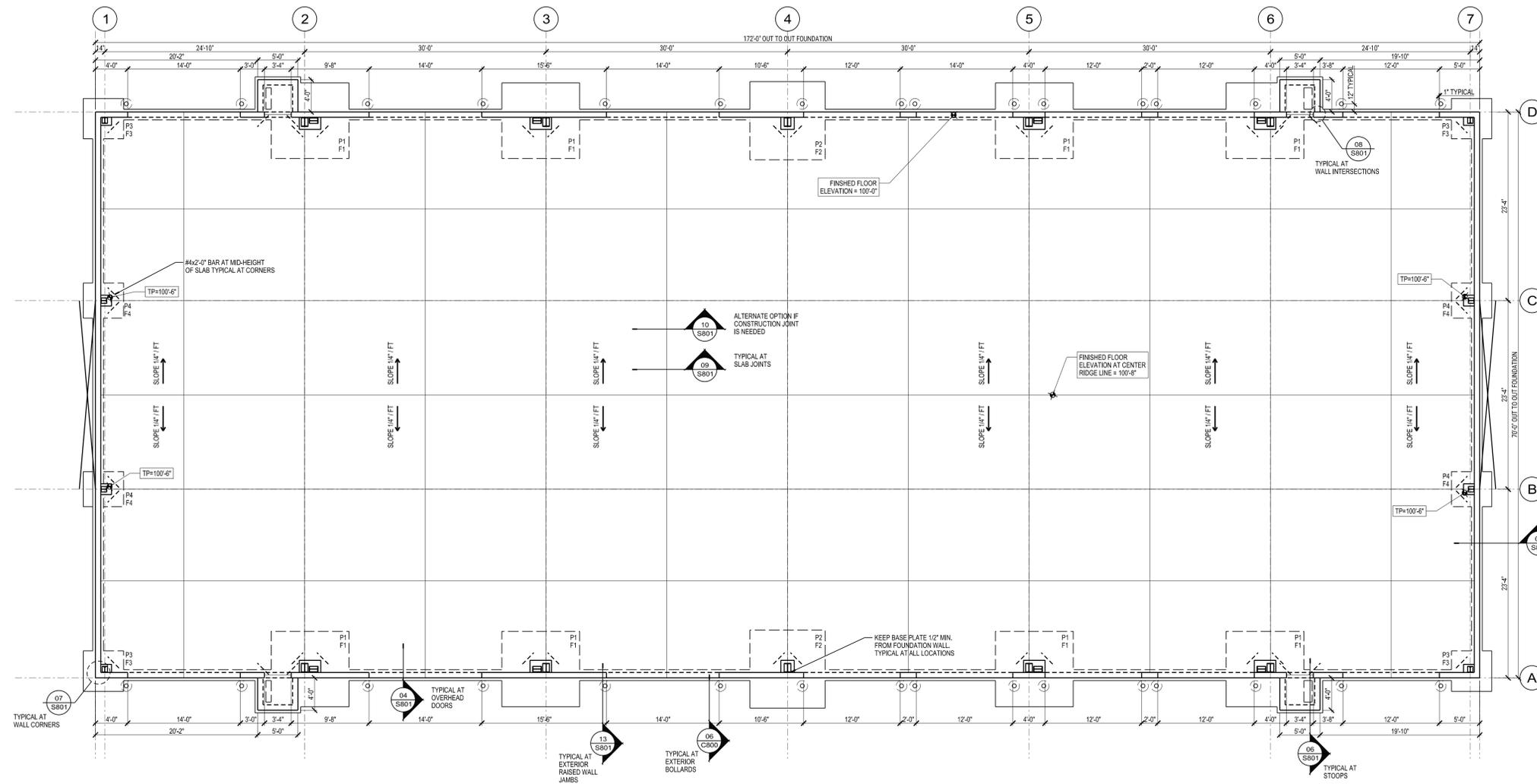
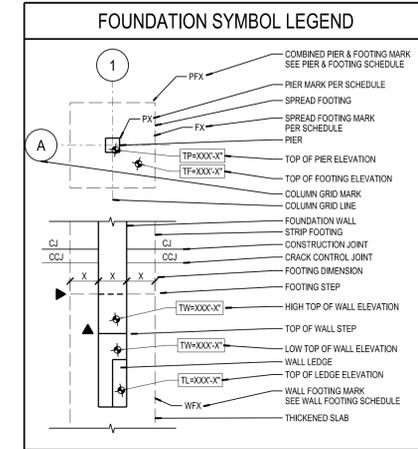


CONCRETE SPREAD FOOTING SCHEDULE					
MARK		F1	F2	F3	F4
LOCATION/ COMPONENT		PER PLAN	PER PLAN	PER PLAN	PER PLAN
SIZE (N-S x E-W) x DEPTH		9'-8" x 9'-4" x 14"	9'-4" x 9'-8" x 16"	5'-0" x 5'-0" x 12"	5'-0" x 4'-4" x 12"
FOOTING	REINFORCEMENT	QUANTITY AND SIZE	(11) #6 BARS	(7) #4 BARS	(7) #4 BARS
	LONG DIRECTION	SPACING AND LOCATION	EQUALLY SPACED	EQUALLY SPACED	EQUALLY SPACED
FOOTING	REINFORCEMENT	QUANTITY AND SIZE	(9) #6 BARS	(7) #4 BARS	(7) #4 BARS
	SHORT DIRECTION	SPACING AND LOCATION	EQUALLY SPACED	EQUALLY SPACED	EQUALLY SPACED
DETAIL		05/S801	05/S801	01/S801	05/S801
NOTES					

CONCRETE PIER SCHEDULE					
MARK		P1	P2	P3	P4
FUTURE DESIGN LOAD		ASD	0 KIPS	0 KIPS	0 KIPS
		LRFD	0 KIPS	0 KIPS	0 KIPS
LOCATION/ COMPONENT		PER PLAN	PER PLAN	PER PLAN	PER PLAN
PIER	REINFORCEMENT	SETTING PLATE LxWxT (INCHES)	NONE	NONE	NONE
		SIZE (N-S x E-W)	32" x 26"	20" x 26"	24" x 20"
PIER	REINFORCEMENT	VERTICAL BAR QUANTITY AND SIZE	(8)- #6 BARS	(6)- #6 BARS	(4)- #6 BARS
		HORIZONTAL TIE SIZE	#3	#3	#3
PIER	REINFORCEMENT	HORIZONTAL TIE SPACING	(1) SPACE AT 2" O.C. (2) SPACES AT 3" O.C. REMAINING AT 12" O.C.	(1) SPACE AT 2" O.C. (2) SPACES AT 3" O.C. REMAINING AT 12" O.C.	(1) SPACE AT 2" O.C. (2) SPACES AT 3" O.C. REMAINING AT 12" O.C.
		DOWEL QUANTITY AND SIZE (WITH STANDARD HOOKS)	(8)- #6 BARS	(6)- #6 BARS	(4)- #6 BARS
DETAIL		15/S801	15/S801	11/S801	15/S801
NOTES					



- FOUNDATION AND SLAB PLAN NOTES
- TYPICAL FLOOR = 8" SLAB ON GRADE REINFORCED WITH FIBER REINFORCEMENT (PER CONCRETE SPECIFICATION) UNLESS NOTED OTHERWISE WITH 10 MIL VAPOR BARRIER.
 - FINISHED FLOOR ELEVATION = 100'-0" AT EAST AND WEST WALLS. 100'-8" AT CENTER RIDGE LINE OF FLOOR. SLOPED AT 1/4" PER FOOT TO OVERHEAD DOORS.
 - TOP OF FOUNDATION WALL ELEVATION = 104'-0" UNLESS NOTED OTHERWISE.
 - TOP OF PIERS SHALL BE AT FINISHED FLOOR UNLESS NOTED OTHERWISE.
 - FOUNDATION WALLS SHALL BE 8" THICK UNLESS NOTED OTHERWISE.
 - TOP OF EXTERIOR FOOTING ELEVATION = 4'-0" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
 - WALL FOOTINGS FOR 8" THICK FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH 1/4" BARS UNLESS NOTED OTHERWISE.
 - SLAB JOINTS SHALL BE CRACK CONTROL JOINTS UNLESS NOTED OTHERWISE.

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WISCONSIN RAPIDS SERVICE CENTER
DEPARTMENT OF NATURAL RESOURCES
WISCONSIN RAPIDS, WISCONSIN

Sheet Title:
FOUNDATION AND SLAB PLAN AND SCHEDULES

Revisions:		
No.	Date:	Description:
BD	11/17/2025	BD DOCUMENTS

Scale	AS INDICATED
Graphic Scale	AS INDICATED
DFD Number	23E2SREBID
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1/8"=1'-0"

SCALE: 1/8"=1'-0"
PLOTTED BY: BmwH

ORIGINAL SIZE = 24" x 36"
X:\19860\Draw\23E2SREBID\ST1.dgn

1/8"=1'-0"

BHW

SCALE: PLOTTED BY:

ORIGINAL SIZE: 24" x 36" X:\1960\Drawings\1960S301.dgn

STRUCTURAL GENERAL NOTES

GENERAL

- DESIGN DRAWINGS SHOW THE INTENT OF REQUIRED CONSTRUCTION AND SPECIFIC CONSTRUCTION AS NEEDED TO FACILITATE CLEAR DETAILING. FOR SPECIFIC CONDITIONS NOT SHOWN, THE CONTRACTOR SHALL PROVIDE DETAILS OF CONSTRUCTION SIMILAR TO THOSE SHOWN. THE FOLLOWING NOTES APPLY TO THE PLANS AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICT WITH PLANS AND/OR SPECIFICATIONS, THE SPECIFICATIONS SHALL APPLY. CONTRACTOR SHALL BECOME FAMILIAR WITH EACH DRAWING AND DETAIL CONTAINED IN THE DRAWING SET AND REPORT ANY ERRORS, OMISSIONS, DISCREPANCIES, OR DETAILS NOT REFERENCED FOR INSTRUCTIONS FROM THE DESIGN PROFESSIONAL. VERIFY AND COORDINATE EXISTING CONDITIONS, DIMENSIONS, AND CONSTRUCTION IN PROGRESS WITH THE SHOP DRAWINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS PRIOR TO SUBMITTAL. ORDERING ANY MATERIAL, OR COMMENCEMENT OF ANY WORK, ALL DIMENSIONAL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL. VERIFY AND COORDINATE WITH ALL CONTRACTORS THE SIZE AND LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS. CONSTRUCTION PRACTICE, MEANS AND METHODS, AND JOBSITE SAFETY SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, AND OTHER DISCIPLINE DRAWINGS TO COORDINATE ALL MISCELLANEOUS WORK PROVIDED FOR OTHER DISCIPLINES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL DIVISION OF MATERIALS AND LABOR FOR THE WORK. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS THEY PERTAIN TO THIS PROJECT. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SUPPORTS, SHORING, ETC. UNTIL PERMANENT BRACING AND SUPPORT SYSTEMS ARE IN PLACE AND FUNCTIONAL. THE DESIGN, ADEQUACY, AND SAFETY OF TEMPORARY BRACING, SUPPORTS, SHORING, ETC., SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING CONSTRUCTION. INVESTIGATION OF THE FRAMING AND CONNECTIONS FOR ADEQUACY DURING CONSTRUCTION SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REROUTE EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING WORK NOT OTHERWISE INDICATED TO FACILITATE NEW CONSTRUCTION AND SHALL SUBMIT PLANS FOR APPROVAL INDICATING EXISTING AND ROUTED LOCATIONS. SUBSTITUTIONS FOR PROPRIETARY STRUCTURAL PRODUCTS DESIGNATED ON THE DRAWINGS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY INFORMATION USED TO DETERMINE ADEQUACY OF PROPOSED SUBSTITUTIONS INCLUDING STRUCTURAL CALCULATIONS IF NECESSARY. SUBMITTAL REVIEW SUBMITTALS ARE ALL ITEMS REQUESTED TO BE SUBMITTED FOR REVIEW AND INCLUDE STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. SHOP DRAWINGS INCLUDE BOTH ERECTION AND PRODUCTION DRAWINGS. SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND MARKED "FOR APPROVAL". PRIOR TO SUBMITTAL TO THE DESIGN PROFESSIONAL, THE CONTRACTOR SHALL: 1) REVIEW EACH SUBMISSION FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS; 2) REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR; 3) IDENTIFY ANY VARIATIONS FROM THE CONTRACT DOCUMENTS; 4) APPROVE AND STAMP COMPLIANT SUBMISSIONS. NON COMPLIANT SUBMITTALS SHALL BE REVISED UNTIL COMPLIANT. ALLOW TEN (10) WORKING DAYS FROM THE DATE OF SUBMISSION FOR THE DESIGN PROFESSIONAL'S SUBMITTAL REVIEW. ALLOW MORE FOR LARGE SUBMITTALS. SUBMITTALS SHALL BE REVIEWED AND MARKED "PROCESSED" OR "APPROVED" BY ALL REVIEWING PARTIES PRIOR TO THE START OF FABRICATION. REVIEW BY THE DESIGN PROFESSIONAL IS TO CONFIRM THAT THE DETAILED WORK (WHEN COMPLETE) CONFORMS TO THE DESIGN INTENT AND IS ABLE TO PERFORM AS AN INTEGRAL PART OF THE COMPLETE BUILDING SYSTEM SHOWN ON THE CONTRACT DOCUMENTS. A COMPLETED REVIEW BY THE DESIGN PROFESSIONAL IS NOT AN APPROVAL OF CHANGES SHOWN IN THE SUBMITTAL, IS NOT AN INDICATION THAT THE DESIGN PROFESSIONAL HAS CHECKED DIMENSIONS SHOWN IN THE SUBMITTAL, AND DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITIES FOR CORRECTNESS OF THE DETAILS, ERRORS, AND CONFORMANCE WITH THE CONTRACT. FINAL STRUCTURAL DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE PROVIDED FOR RECORD PURPOSES AND MARKED "FOR CONSTRUCTION" PRIOR TO INSTALLATION. CONSTRUCTION ELEMENTS DESIGNATED AS STRUCTURAL COMPONENTS ARE DESIGNED BY PARTIES OTHER THAN THE DESIGN PROFESSIONAL OF RECORD AND HAVE THE ADDITIONAL REQUIREMENTS OF SUBMITTAL TO AUTHORITIES HAVING JURISDICTION. SUBMIT STRUCTURAL COMPONENT FINAL STRUCTURAL DESIGN CALCULATIONS, SHOP DRAWINGS, AND THE REQUIRED SUBMITTAL FEE TO THE DESIGN PROFESSIONAL FOR REVIEW, SIGNATURE, AND SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION. STRUCTURAL COMPONENT SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION ARE REQUIRED TO BE COMPLETED PRIOR TO INSTALLATION OR FINES COULD BE IMPOSED BY THE AUTHORITY HAVING JURISDICTION. ALL FINES WILL BE BACKCHARGED TO THE CONTRACTOR. STRUCTURAL COMPONENT DESIGNS SHALL MATCH THE GEOMETRY SHOWN ON THE DESIGN DRAWINGS TO MAINTAIN THE OVERALL STRUCTURAL DESIGN CONCEPT AND ASSUMPTIONS USED IN THE DESIGN OF THE BUILDING. ANY AND ALL DEVIATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL OF RECORD PRIOR TO IMPLEMENTATION. EARTHWORK CONTACT PROPER AUTHORITIES TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. A LICENSED GEOTECHNICAL ENGINEER ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ALL BEARING CONDITIONS AND COMPACTED FILL INSTALLATIONS PRIOR TO CONCRETE PLACEMENT. FOUNDATION CONSTRUCTION MAY BE ADJUSTED BY THE DESIGN PROFESSIONAL IF REQUIRED BY THE GEOTECHNICAL ENGINEER. CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING. CONTRACTOR SHALL COORDINATE AND SCHEDULE WHEN THE GEOTECHNICAL ENGINEER IS TO BE ON SITE. NO FOOTINGS OR FOUNDATIONS SHALL BE PLACED WITHOUT PRIOR APPROVAL FROM THE GEOTECHNICAL ENGINEER. IF EXCAVATION INDICATES A SOIL BEARING CAPACITY LESS THAN DESIGN CAPACITY AT FOOTING DEPTH, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.

EARTHWORK

- CONTACT PROPER AUTHORITIES TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. A LICENSED GEOTECHNICAL ENGINEER ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ALL BEARING CONDITIONS AND COMPACTED FILL INSTALLATIONS PRIOR TO CONCRETE PLACEMENT. FOUNDATION CONSTRUCTION MAY BE ADJUSTED BY THE DESIGN PROFESSIONAL IF REQUIRED BY THE GEOTECHNICAL ENGINEER. CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING. CONTRACTOR SHALL COORDINATE AND SCHEDULE WHEN THE GEOTECHNICAL ENGINEER IS TO BE ON SITE. NO FOOTINGS OR FOUNDATIONS SHALL BE PLACED WITHOUT PRIOR APPROVAL FROM THE GEOTECHNICAL ENGINEER. IF EXCAVATION INDICATES A SOIL BEARING CAPACITY LESS THAN DESIGN CAPACITY AT FOOTING DEPTH, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.

- FOOTINGS SHALL BE CAST ON UNDISTURBED SOIL, COMPACTED FILL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM). COMPACT ALL SUBGRADE BELOW FOOTINGS PRIOR TO CONCRETE PLACEMENT. HOLES, TRENCHES, OR DISTURBANCES IN THE SOIL SHALL NOT BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING. DO NOT PLACE UNDERGROUND UTILITIES OR PIPES BELOW FOOTINGS WITHOUT CONSULTING THE DESIGN PROFESSIONAL BEFORE PROCEEDING. TOPSOIL OR UNACCEPTABLE SOIL BELOW SLABS ON GRADE SHALL BE REMOVED. SUBGRADE UNDER SLABS SHALL BE AS RECOMMENDED IN THE PROJECT MANUAL. COMPACT ALL SUBGRADE MATERIAL PRIOR TO PLACEMENT OF ANY FILL. REMOVE LOOSE MATERIAL AND DEBRIS THAT CANNOT BE ADEQUATELY COMPACTED. BACKFILL AGAINST ANY WALLS OR CONSTRUCTION SHALL NOT BE PLACED UNLESS THE WALLS ARE ADEQUATELY BRACED TO WITHSTAND THE LOADS IMPOSED DUE TO THE BACKFILLING OPERATION. DESIGN, FURNISH, AND INSTALL ALL TEMPORARY SHEETING AND SHORING NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.

CONCRETE

- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE CONCRETE. CONCRETE WORK SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE INCLUDING BUT NOT LIMITED TO ACI 301 ("SPECIFICATIONS FOR STRUCTURAL CONCRETE"), ACI 308 ("HOT WEATHER CONCRETING"), AND ACI 306 ("COLD WEATHER CONCRETING"). CONCRETE DETAILING SHALL CONFORM TO ACI 318 ("ACI DETAILING MANUAL"). A CERTIFIED TESTING AGENCY ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ON ALL CONCRETE PROPERTIES. CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL, OWNER (DPD CONST. REP.), AND TESTING AGENCY AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE. SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES. JOINTS SHALL BE SPACED IN SUCH A WAY THAT THE LENGTH TO WIDTH RATIO OF UNJOINTED SLAB PORTION SHALL NEVER BE GREATER THAN 2. SPACING SHOULD BE APPROXIMATELY 2.5 x SLAB THICKNESS (CONVERTED TO FEET) WITH A MAXIMUM SPACING BETWEEN JOINTS OF 15'-0". SLABS ON GRADE SHALL HAVE THE FOLLOWING FINISH UNLESS NOTED OTHERWISE: EXTERIOR SLABS - BROOM FINISH; INTERIOR SLABS - TROWEL FINISH. SLABS ON GRADE SHALL HAVE A 10 MIL VAPOR BARRIER BELOW SLAB UNLESS NOTED OTHERWISE. SLOPE SLAB ON GRADE 1/4" PER FOOT TO OVERHEAD DOORS UNLESS NOTED OTHERWISE. SLOPE SLAB ON GRADE AT OVERHEAD DOORS 1/2" IN DEPTH OF DOOR JAMB AWAY FROM BUILDING. SAW-CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW AND SHALL BE COMPLETED BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING. WITHIN 16 HOURS MAXIMUM OF THE INITIAL CASTING OPERATION. ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS. MAX LENGTH OF POUR TO BE 50 FEET UNLESS CRACK INDUCERS ARE USED. ALL REINFORCEMENT SHALL BE SECURELY HELD IN POSITION BY SUITABLE ACCESSORIES PRIOR TO CONCRETE PLACEMENT EXCEPT AS NOTED OR SPECIFIED. PIERS SHALL BE POURED MONOLITHICALLY WITH WALLS. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE. FOOTINGS SHALL BE CENTERED BELOW WALLS, PIERS, AND COLUMNS ABOVE UNLESS NOTED OTHERWISE. SLOPE EXTERIOR STOOPS 1/4" PER FOOT AWAY FROM BUILDING. TOP OF FOUNDATION WALL SHALL BE DROPPED 8" AT DOOR THRESHOLDS FOR FLOOR SLAB CAP. WIDTH OF CAP SHALL BE EQUAL TO WIDTH OF ROUGH OPENING. WHERE REINFORCING IS CALLED FOR IN PORTIONS OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING. DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN VERTICAL REINFORCING. BARS SPLICES SHALL BE LAPPED WITH CLASS B SPLICE LENGTHS UNLESS NOTED OTHERWISE. HORIZONTAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS. VERTICAL REINFORCING IN CONCRETE WALLS SHALL END 2" FROM THE TOP OF THE WALL. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH EACH WAY. PROVIDE INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL. DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL. WALL OR SLAB PENETRATIONS SHALL HAVE (2) #4 BARS DIAGONALLY AT CORNERS OF OPENINGS CENTERED IN SLAB, EXTEND 1'-0" BEYOND THE EDGE OF THE PENETRATION IN EACH DIRECTION. SLABS SHALL HAVE #4 BARS DIAGONALLY AT INSIDE CORNERS OF WALLS, PIERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE DESIGN PROFESSIONAL. PIPE AND CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT OR FITTING THAN 2 INCHES OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM, OR WALL, AND SHALL BE LOCATED AND PLACED AS SUCH: 1. NOT CLOSER THAN THREE DIAMETERS ON CENTER. 2. CONCRETE COVER IS NOT LESS THAN 2 INCHES. 3. NO REINFORCING SHALL BE DISPLACED.

- SAW-CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW AND SHALL BE COMPLETED BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING. WITHIN 16 HOURS MAXIMUM OF THE INITIAL CASTING OPERATION. ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS. MAX LENGTH OF POUR TO BE 50 FEET UNLESS CRACK INDUCERS ARE USED. ALL REINFORCEMENT SHALL BE SECURELY HELD IN POSITION BY SUITABLE ACCESSORIES PRIOR TO CONCRETE PLACEMENT EXCEPT AS NOTED OR SPECIFIED. PIERS SHALL BE POURED MONOLITHICALLY WITH WALLS. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE. FOOTINGS SHALL BE CENTERED BELOW WALLS, PIERS, AND COLUMNS ABOVE UNLESS NOTED OTHERWISE. SLOPE EXTERIOR STOOPS 1/4" PER FOOT AWAY FROM BUILDING. TOP OF FOUNDATION WALL SHALL BE DROPPED 8" AT DOOR THRESHOLDS FOR FLOOR SLAB CAP. WIDTH OF CAP SHALL BE EQUAL TO WIDTH OF ROUGH OPENING. WHERE REINFORCING IS CALLED FOR IN PORTIONS OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING. DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN VERTICAL REINFORCING. BARS SPLICES SHALL BE LAPPED WITH CLASS B SPLICE LENGTHS UNLESS NOTED OTHERWISE. HORIZONTAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS. VERTICAL REINFORCING IN CONCRETE WALLS SHALL END 2" FROM THE TOP OF THE WALL. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH EACH WAY. PROVIDE INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL. DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL. WALL OR SLAB PENETRATIONS SHALL HAVE (2) #4 BARS DIAGONALLY AT CORNERS OF OPENINGS CENTERED IN SLAB, EXTEND 1'-0" BEYOND THE EDGE OF THE PENETRATION IN EACH DIRECTION. SLABS SHALL HAVE #4 BARS DIAGONALLY AT INSIDE CORNERS OF WALLS, PIERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE DESIGN PROFESSIONAL. PIPE AND CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT OR FITTING THAN 2 INCHES OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM, OR WALL, AND SHALL BE LOCATED AND PLACED AS SUCH: 1. NOT CLOSER THAN THREE DIAMETERS ON CENTER. 2. CONCRETE COVER IS NOT LESS THAN 2 INCHES. 3. NO REINFORCING SHALL BE DISPLACED.

- ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS. MAX LENGTH OF POUR TO BE 50 FEET UNLESS CRACK INDUCERS ARE USED. ALL REINFORCEMENT SHALL BE SECURELY HELD IN POSITION BY SUITABLE ACCESSORIES PRIOR TO CONCRETE PLACEMENT EXCEPT AS NOTED OR SPECIFIED. PIERS SHALL BE POURED MONOLITHICALLY WITH WALLS. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE. FOOTINGS SHALL BE CENTERED BELOW WALLS, PIERS, AND COLUMNS ABOVE UNLESS NOTED OTHERWISE. SLOPE EXTERIOR STOOPS 1/4" PER FOOT AWAY FROM BUILDING. TOP OF FOUNDATION WALL SHALL BE DROPPED 8" AT DOOR THRESHOLDS FOR FLOOR SLAB CAP. WIDTH OF CAP SHALL BE EQUAL TO WIDTH OF ROUGH OPENING. WHERE REINFORCING IS CALLED FOR IN PORTIONS OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING. DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN VERTICAL REINFORCING. BARS SPLICES SHALL BE LAPPED WITH CLASS B SPLICE LENGTHS UNLESS NOTED OTHERWISE. HORIZONTAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS. VERTICAL REINFORCING IN CONCRETE WALLS SHALL END 2" FROM THE TOP OF THE WALL. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH EACH WAY. PROVIDE INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL. DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL. WALL OR SLAB PENETRATIONS SHALL HAVE (2) #4 BARS DIAGONALLY AT CORNERS OF OPENINGS CENTERED IN SLAB, EXTEND 1'-0" BEYOND THE EDGE OF THE PENETRATION IN EACH DIRECTION. SLABS SHALL HAVE #4 BARS DIAGONALLY AT INSIDE CORNERS OF WALLS, PIERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE DESIGN PROFESSIONAL. PIPE AND CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT OR FITTING THAN 2 INCHES OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM, OR WALL, AND SHALL BE LOCATED AND PLACED AS SUCH: 1. NOT CLOSER THAN THREE DIAMETERS ON CENTER. 2. CONCRETE COVER IS NOT LESS THAN 2 INCHES. 3. NO REINFORCING SHALL BE DISPLACED.

- COORDINATE AND VERIFY SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, CHASES, CONDUITS, DERESSED AREAS, FLOOR FINISHES, FILLS, ANCHORS, STONE AND MASONRY INSERTS, HANGERS, CURBS, AND OTHER MISCELLANEOUS ITEMS BEFORE PLACING CONCRETE. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE NOT TO BE USED.

- A MINIMUM OF 4 CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH CONCRETE PORTION TESTED. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE CONCRETE REINFORCEMENT. PRE-ENGINEERED METAL BUILDINGS CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE CONCRETE REINFORCEMENT. PRE-ENGINEERED METAL BUILDINGS ARE STRUCTURAL COMPONENTS AND HAVE THE ADDITIONAL REQUIREMENTS REQUIRED AS SUCH. PRE-ENGINEERED BUILDING ERECTION DRAWINGS SHALL HAVE COLUMN GRID LINES AND NUMBERS THAT MATCH THE CONSTRUCTION DOCUMENTS PRODUCED BY THE DESIGN PROFESSIONAL. FOUNDATION DESIGN SHOWN ON DRAWINGS MUST BE VERIFIED WITH LOADING PROVIDED BY PRE-ENGINEERED BUILDING DESIGNER PRIOR TO CONSTRUCTION - VERIFY WITH THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION. ANCHOR BOLT EMBEDMENT SHALL BE 18" UNLESS NOTED OTHERWISE. DESIGN ALL COLUMNS WITHOUT FLANGE BRACES. ROOF STRUCTURE SHALL BE DESIGNED FOR THE MINIMUM DEAD LOAD EVEN IF THE ROOFING PANELS ARE LIGHTER THAN THE MINIMUM. MISCELLANEOUS DEAD LOADS (COLLATERAL GRAVITY) SHALL BE 4 PSF MINIMUM ON THE ENTIRE STRUCTURE WITH AN ADDITIONAL 6 PSF (10 PSF TOTAL) ON THE FRAMES ONLY. HORIZONTAL DEFLECTION OF ALL FRAMES SHALL NOT EXCEED 1/100 OF THE HEIGHT. HORIZONTAL DEFLECTION OF WALL GIRTS SHALL NOT EXCEED 1/240 OF THE SPAN. VERTICAL DEFLECTION OF ALL GIRTS SHALL NOT EXCEED 1/240 OF THE SPAN. PROVIDE SAG RODS IF NECESSARY. COORDINATE MECHANICAL UNIT LOCATIONS, WEIGHTS, AND SIZES WITH MECHANICAL CONTRACTOR. FRAMING FOR ALL ROOFTOP UNITS AND OPENINGS SHALL BE PROVIDED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER. STRUCTURAL FRAMING GAGES, SIZES, AND CONNECTIONS SHALL BE FINISHED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. BRACING SHALL BE PLACED IN LOCATIONS SHOWN ON THE DRAWINGS IF NEEDED. MAIN STRUCTURAL MEMBERS (STEEL FRAMES) SHALL BE DESIGNED FOR HEAVIER MISCELLANEOUS LOAD THAN THE SECONDARY MEMBERS (ROOF PURLINS). ROOF PURLINS SHALL BE DESIGNED FOR PSF LOAD AND FRAMES SHOULD BE DESIGNED FOR THE ADDITIONAL 6PSF LOAD FOR A TOTAL OF 4+6 = 10PSF LOAD.

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