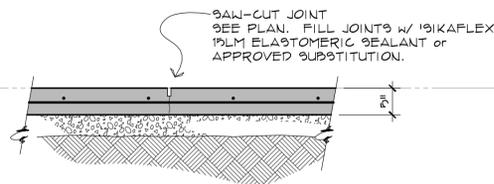


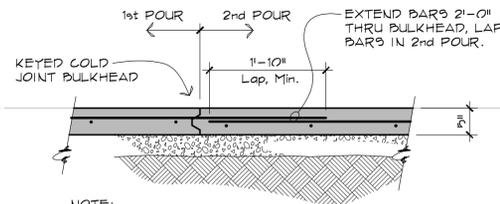
**SLAB DETAIL @ WALL**

$\frac{3}{4}'' = 1'-0''$



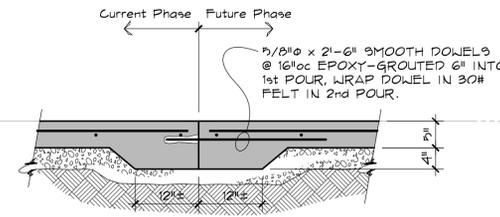
**SLAB CONTROL JOINT**

$\frac{3}{4}'' = 1'-0''$



**SLAB CONSTRUCTION JOINT**

$\frac{3}{4}'' = 1'-0''$



**SLAB CONSTRUCTION JOINT**

$\frac{3}{4}'' = 1'-0''$

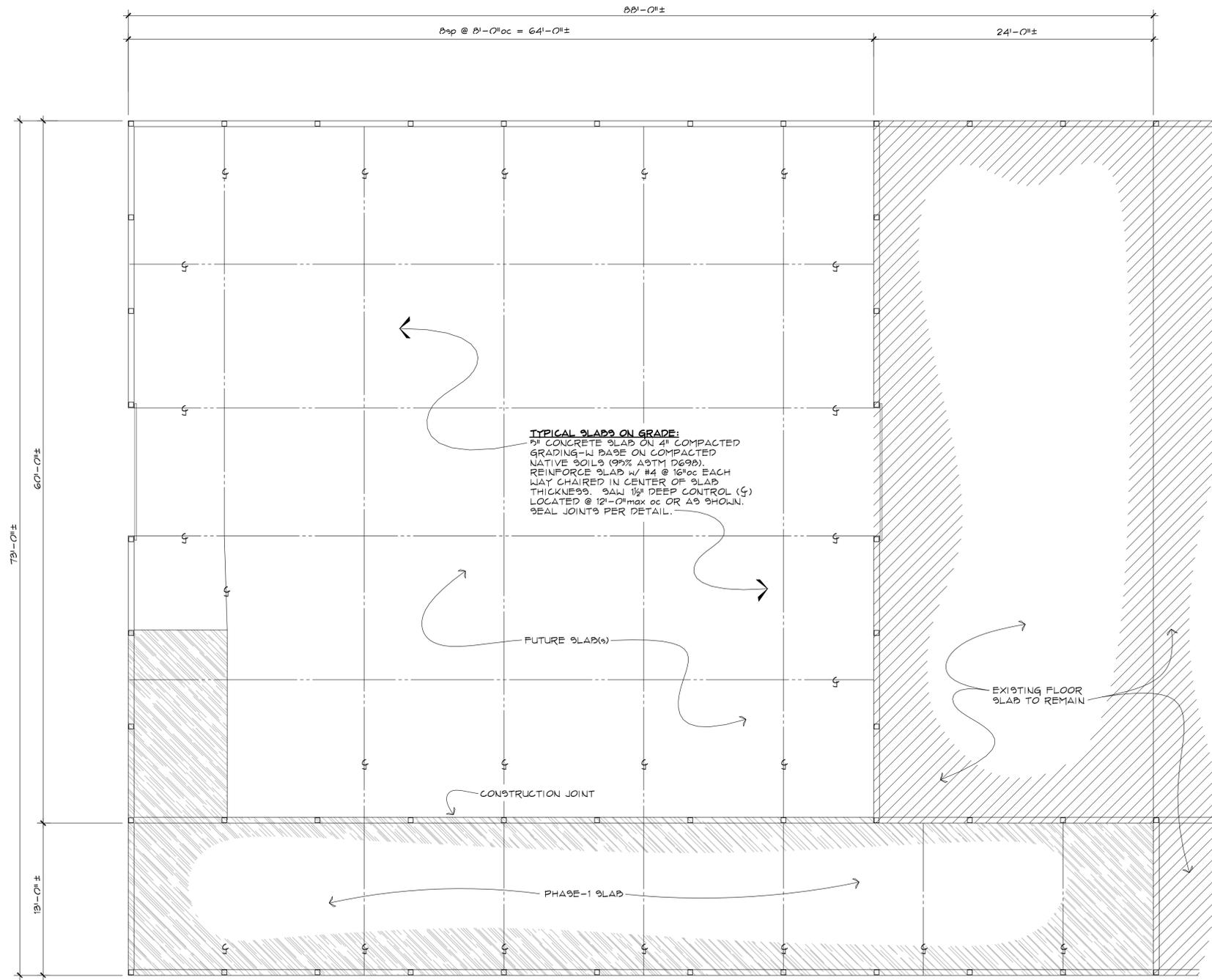
**GENERAL NOTES:**

- I. DESIGN LOADS:
  - A. CODE ..... IBC 2024 EDITION
- II. REINFORCED CONCRETE:
  - A. DESIGN IS BASED ON "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACE 318). CONCRETE WORK SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).
  - B. ALL CONCRETE FOR FLOOR SLABS ON GRADE OR ON STEEL DECK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. MINIMUM CEMENT CONTENT 517lbs./CY. MAXIMUM W/C = 0.50. TYPE-F FLY ASH IS PERMITTED. COARSE AGGREGATE SHALL HAVE A MINIMUM OF 50% FRACTURED FACES ON A #4 PLUS ROCK.
  - D. ALL REINFORCING STEEL SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO A.S.T.M. SPECIFICATION A-615, #4 AND LARGER GRADE 60, (ONLY #3 TIES MAY BE GRADE 40). DO NOT WELD OR REBEND ANY BARS WITH A YIELD POINT GREATER THAN 40,000 PSI.
  - E. SLABS ON GRADE SHALL BE REINFORCED AS NOTED ON THE PLAN. LAP BARS 20" AT SPLICES.
  - F. CONTROL AND CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS.
  - G. ALL BAR LENGTHS ARE DRAWN TO SCALE UNLESS NOTED. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. ALL LAP SPLICES TO BE CLASS "B" UNLESS OTHERWISE NOTED.
  - H. DETAIL ALL REINFORCING AND PROVIDE BAR SUPPORTS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL, LATEST EDITION.
  - I. REINFORCEMENT PROTECTION:
    1. CONCRETE POURED AGAINST EARTH .....3"
    2. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH .....2"
  - J. UNLESS OTHERWISE SHOWN, PLACE 4-#5 WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WALLS, GRADE BEAMS OR SLABS.
  - K. NO HORIZONTAL JOINTS ARE PERMITTED IN SLABS, JOINTS, WALLS OR BEAMS. ANY STOP IN CONCRETE WORK MUST BE MADE AT THE CENTER OF THE SPAN (OR SUPPORT) WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN OR APPROVED. SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, KERFS, NOSINGS, ETC.
- III. SHOP DRAWINGS:
  - A. CONSTRUCTION DOCUMENTS ARE COPYRIGHTED AND SHALL NOT BE COPIED FOR USE AS ERECTION PLANS OR SHOP DETAILS.
  - B. ALL SHOP AND ERECTION DRAWINGS SHALL BE CHECKED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR STRUCTURAL ENGINEER'S REVIEW. UNCHECKED SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. FURNISH DIGITAL FILES (PDF) OF SHOP AND ERECTION DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, STEEL JOISTS, STEEL DECK, PLANT FABRICATED WOOD JOISTS, WOOD TRUSSES GLUED-LAMINATED TIMBER AND PRECAST CONCRETE TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.
  - C. SUBMIT IN A TIMELY MANNER TO PERMIT TEN (10) WORKING DAYS FOR REVIEW BY STRUCTURAL ENGINEER.
  - D. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE PLANS OR SPECIFICATIONS. SHOP DRAWINGS, SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, SUCH CHANGES BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING SUCH CHANGE.
- IV. FIELD VERIFICATION OF EXISTING CONDITIONS:
  - A. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING STRUCTURE TO VERIFY CONDITIONS WHICH AFFECT THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING.
- V. SPECIAL INSPECTION PROGRAM
 

THE OWNER SHALL EMPLOY INSPECTORS AND SPECIAL INSPECTORS AS REQUIRED DURING CONSTRUCTION TO PROVIDE INSPECTIONS OF THE ITEMS OF WORK LISTED. THESE INSPECTORS SHALL BE QUALIFIED PERSON(S) WHO DEMONSTRATE COMPETENCE IN EACH PARTICULAR TYPE OF CONSTRUCTION TO THE SATISFACTION OF THE LOCAL BUILDING OFFICIAL AND THE RESPECTIVE GOVERNING CODE.

**ITEM OF CONSTRUCTION:**

REQUIRED VERIFICATION AND INSPECTION	INSPECTION FREQUENCY	REF. STANDARDS
1. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	PERIODIC	ACI 318: 3.5, 7.1 - 7.7; IBC: 1913.4
2. INSPECTION OF ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 8.1.3, 21.2.8; IBC: 1908.5, 1909.1
3. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	PERIODIC	ACI 318: 3.8.6, 8.1.3, 21.2.8; IBC: 1909.1
4. VERIFYING USE OF REQUIRED MIX DESIGN.	PERIODIC	ACI 318: Ch. 4, 5.2-5.4; IBC: 1904.2, 1910.2, 1910.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172, C31 ACI 318: 5.6, 5.8 IBC: 1910.10
6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9, 5.10 IBC: 1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11 - 5.13 IBC: 1910.9
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1



**TYPICAL SLABS ON GRADE:**  
 8" CONCRETE SLAB ON 4" COMPACTED GRADING-W BASE ON COMPACTED NATIVE SOILS (95% ASTM D698). REINFORCE SLAB W/ #4 @ 16"oc EACH WAY CHAIRED IN CENTER OF SLAB THICKNESS. SAW 1/2" DEEP CONTROL (C) LOCATED @ 12'-0"max oc OR AS SHOWN. SEAL JOINTS PER DETAIL.

FUTURE SLAB(S)

EXISTING FLOOR SLAB TO REMAIN

CONSTRUCTION JOINT

PHASE-1 SLAB



**BARN #2 FLOOR PLAN**

$\frac{3}{16}'' = 1'-0''$

STRUCTURAL ENGINEERS  
 1607 C.Y. AVENUE, SUITE 201  
 CASPER, WYOMING 82604  
 307-234-6984

**OWER**  
 O., P.C.



New Floor Slabs for:  
**Casper College Ranch Campus**  
 Barn #2  
 Casper, WY

Job No: 25-039  
 Date: 8/20/2025  
 Drawn By: SMW

Title:  
 -SLAB PLAN & DETAILS

SHEET  
**S1**  
 OF 1

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