GUIDELINES FOR USING BRIDGE STANDARDS (1)

- Determine whether abutments will be integral or conventional. All components of bridge Total bridge length for integral abutments may not exceed 400 feet. will carry the integral or conventional designation determined by the type of abutment chosen.
- Ņ From BEAM SPAN SCHEDULE on Std. B40-GUIDE-2, choose type of beams for spans required. If Pier SPAN COMBINATIONS ACCOMODATED BY PIER CAP STANDARDS are allowed. Cap Standards are going to be used, only the adjacent span combinations shown in the TABLE OF
- 4. Standards required are listed in Reference Guide Schedules. All standards in the box at the Use the Reference Guide Schedules as follows: spans, standards listed in the schedules could be repeated under multiple beam types; however, numbers - the first number is the Design Number and the second number is the sheet number. \circledcirc only one copy of each standard is necessary in the plans. Standards are designated by two intersection of the applicable row and column will be required. If the bridge contains multiple
- A. ABUTMENTS on Std. B40-GUIDE-3

Knowing beam type, choose integral or conventional column to get standards required.

B. PIER CAPS on Std. B40-GUIDE-3

Knowing beam types for adjacent spans, get standard required for Pier Cap configuration.

<u>.</u> CROSS SECTIONS on Std. B40-GUIDE-4

LONGITUDINAL SECTIONS on Std. B40-GUIDE-4 Knowing beam type, choose integral or conventional column to get standards required.

P.

Knowing beam type, choose integral or conventional column to get standards required.

SUPERSTRUCTURE BAR LISTS on Std. B40-GUIDE-4

Knowing beam type, choose integral or conventional column to get standards required.

Beam type will determine which schedule to use for beam details as follows:

- a. If bridge has integral abutments and precast concrete beams, find beam type and column Std. B40-GUIDE-4. for span length to get standards required from PRECAST CONCRETE BEAMS - INTEGRAL on
- If bridge has conventional abutments and precast concrete beams, find beam type and column for span length to get standards required from PRECAST CONCRETE BEAMS - CONVENTIONAL on Std. B40-GUIDE-5.
- If Rolled beams are used, find span and choose conventional or integral column to get standards required from ROLLED BEAMS on Std. B40-GUIDE-5.
- DIAPHRAGMS, BEARINGS AND SUPERSTRUCTURE QUANTITIES on Std. B40-GUIDE-6
- APPROACH SLABS on Std. B40-GUIDE-6 Knowing beam type, choose integral or conventional column to get standards required.

Choose integral or conventional column to get standard required

- CONCRETE TRAFFIC RAIL on Std. B40-GUIDE-6
- WITH OPENINGS shall be used. Knowing rail type, choose integral or conventional column to get WITHOUT OPENINGS must be used if bridge is over traffic or a railroad; otherwise,
- MISCELLANEOUS ITEMS on Std. B40-GUIDE-6

standards required.

Include additional standards required. EXPANSION JOINT standards not required for integral bridges.

SLOPEWALL DETAILS or RIPRAP DETAILS GENERAL PLAN AND ELEVATION (4) SUMMARY OF QUANTITIES (BRIDGE) BRIDGE GENERAL NOTES (3) which may include, but not be limited to the following: PIER DETAILS FOUNDATION REPORT SUBSTRUCTURE STAKING DIAGRAM TITLE SHEET

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Additional plan sheets must be provided by the Design Engineer

Requires the following standards:

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840-GUIDE-1 840-GUIDE-2 840-GUIDE-3 840-GUIDE-4 840-GUIDE-5 840-GUIDE-6

0 Terms used in Design Numbers:

PCB refers to Precast Concrete Beams PC2 refers to P.C. Beams Type II and B PC3 refers to P.C. Beams Type III and C PC4 refers to P.C. Beam Type III and C PC4 refers to P.C. Beam Type III, B, III, C and IV PC5 refers to P.C. Beams Type B1-72 and J B1 refers to P.C. Beam Type B1-72 RB refers to Hot Rolled Steel Beams

- \bigcirc Comply with the requirements of the 1999 Oklahoma Standard Specifications for Highway Construction, except as modified by the Plans and Special Provisions. Include paragraph on BRIDGE GENERAL NOTES as follows:
- 4 Copy DESIGN DATA to General Plan and Elevation sheet. Remove "Reference BEAM DETAILS" from LFD OPERATING RATING and replace with appropriate minimum rating for design used.

2012/18

OKLAHOMA BRIDGE STANDARD (ENGLISH)
REFERENCE GUIDE TO
STANDARD SERIES B40
(SHEET 1 OF 6)