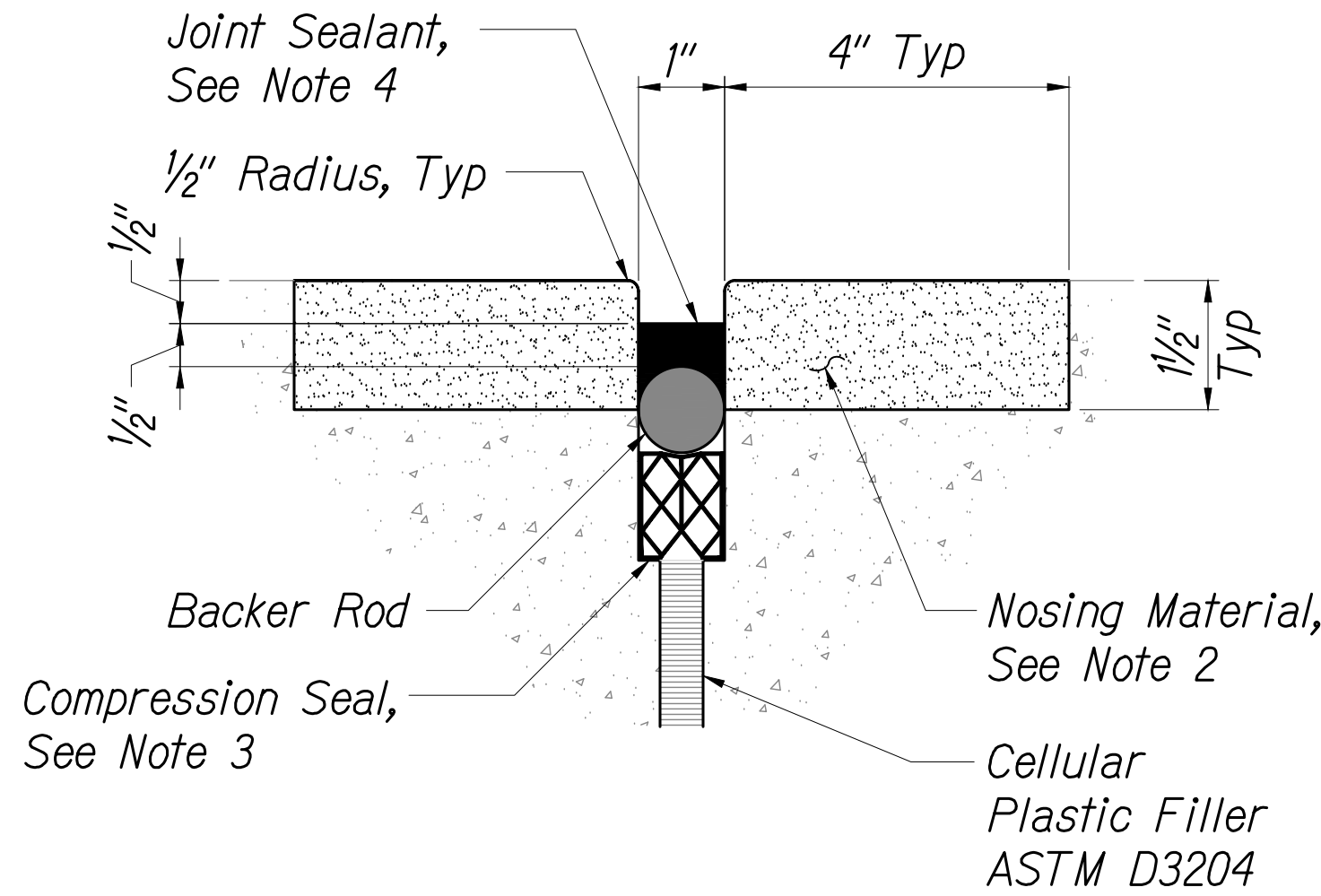


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	HWY-K-02-23M	2023	8	41

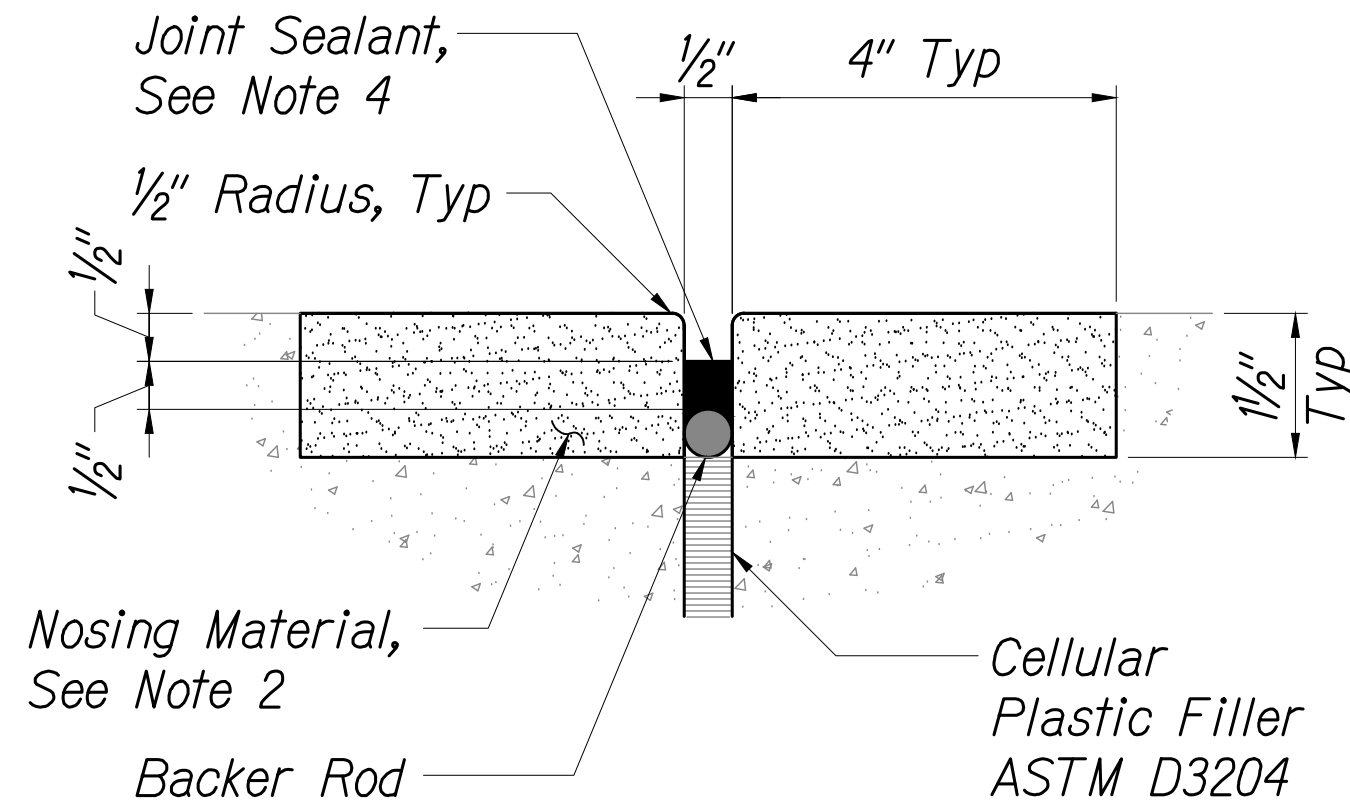
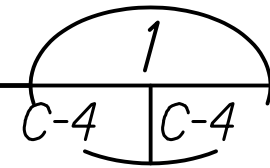
Note:

Sealant shall be installed per the manufacturer's recommendations and the corresponding joint width shall be as dimensioned.



JOINT REPAIR DETAIL

Not to Scale

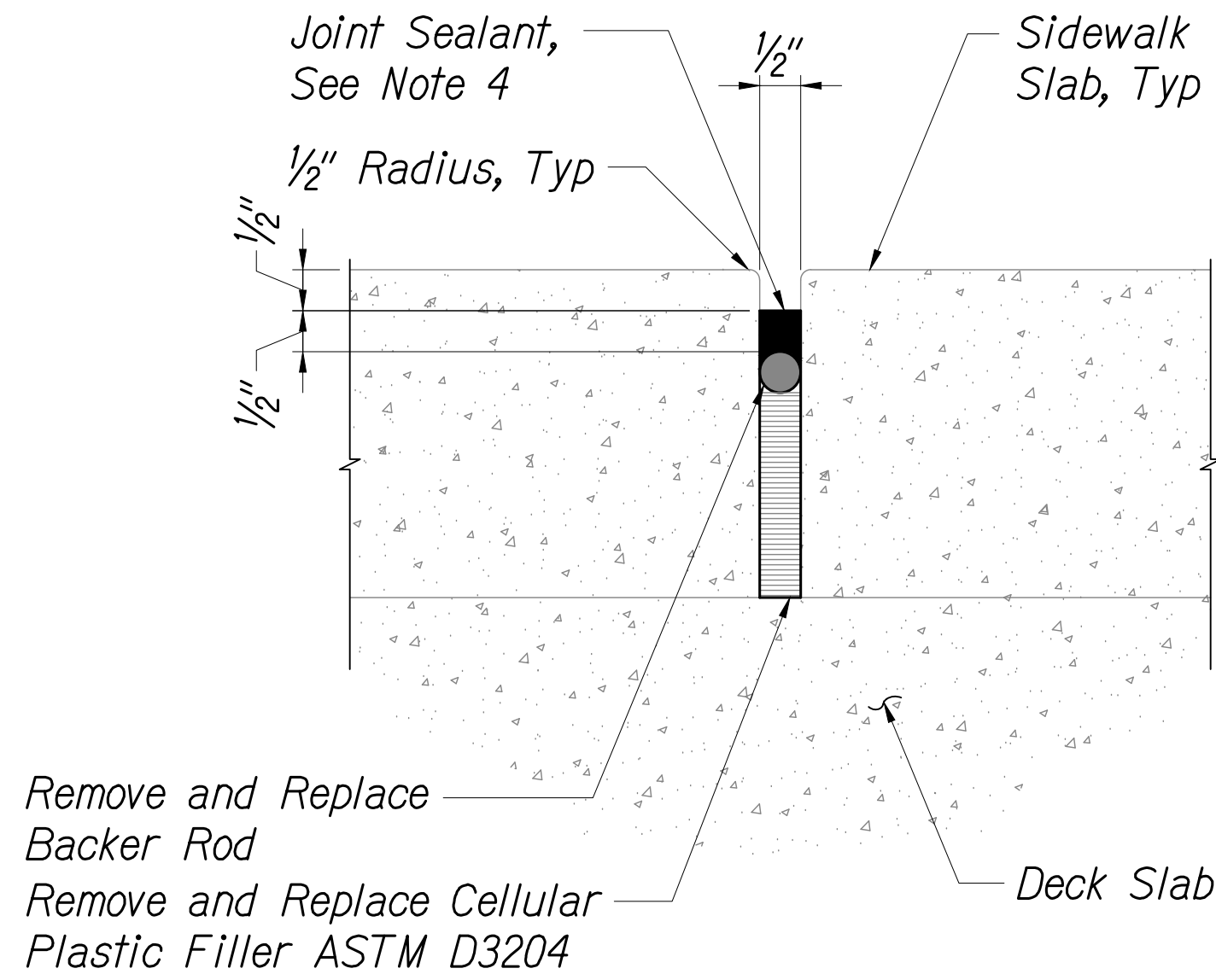
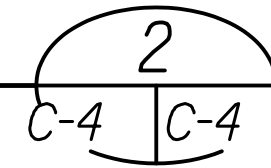


Note:

Sealant shall be installed per the manufacturer's recommendations and the corresponding joint width shall be as dimensioned.

JOINT REPAIR DETAIL

Not to Scale

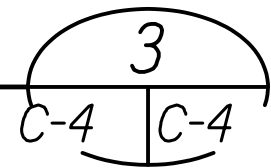


Note:

Sealant shall be installed per the manufacturer's recommendations and the corresponding joint width shall be as dimensioned.

EXPANSION JOINT DETAIL

Not to Scale



NOTES:

1. Remove existing joint sealant, backer rods, compression seal, and preformed filler. Clean surfaces of concrete thoroughly of all dirt, oil, dust, adhesive, and all other bond-inhibiting materials. The contractor shall clean down to hard and sound concrete.
2. Nosing material:
  - a. Remove the existing nosing material down to clean, sound concrete.
  - b. Prime nosing cavity according to manufacturer's specifications.
  - c. Form and install new nosing material. Ensure that the leading edge of the nosing material is tooled to have a 1/2" radius.
  - d. The nosing material shall be a 2-component polyurethane resin, mixed with silica-free sand and 4 lbs. of chopped fiberglass, or 11% fiberglass by weight. The nosing material shall have the following minimum physical properties:
    - i. Compressive strength of 4000 psi, min. (ASTM D695)
    - ii. Adhesion bond strength of 400 psi (ASTM D7234)
    - iii. Tensile strength and elongation of 450 psi, 8% min. (ASTM D638).
  - e. A pre-approved nosing material is Emcrete. All proposed alternatives shall have the minimum physical properties listed above, including the requirement for fiber reinforcement.

3. Compression seal:

- a. Install new preformed filler, compression seal, and backer rod. The compression joint seal shall conform to ASTM D8138-18, and shall be one of the following or approved equal:
  - i. Emseal and BEJS-DS system
  - ii. Delastic preformed compression seals
  - iii. Wabo FS bridge seal
- b. The compression seal shall have a minimum 3/2" interface depth with the vertical joint surface. The adhesive shall competely cover the entire depth and length of the seal surface.
- c. Follow closely the manufacturers specifications for cleaning and installation, including adhesive.

4. Joint sealant:

- a. Joint sealant shall be Dow Corning 902 RCS or approved alternative.

5. All products noted above include the minimum performance requirements for their intended use and are included for contractor's reference. Alternate products may be proposed for substitution. submit all substitution requests to the engineer for approval.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	CHECKED BY	



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**JOINT REPAIR DETAILS**  
  
MINOR BRIDGE REPAIRS AT  
VARIOUS LOCATIONS, PART 1  
KAUAI, HAWAII  
PROJECT NO. HWY-K-02-23M  
Scale: As Shown Date: May 2023  
C-4 SHEET No. 13 OF 41 SHEETS