HPPILES @ BYDOC (BY OTHERS) HARDWOOD COLORING LAGGNOO (BY OTHERS) THE SACK ANCHOR CENTERED BETWEEN HP PILES CLIS WALER (TYP 2) MOXBILLAS SYCING SETTIFEED COLORING AS SETTIFEED CHARGES = 5° CT STOP-TYPE COLF LING AS SET SCHEDULE FILL W NEAT CEMENT GROUT

TYPICAL SECTION OF DRIVEN PIER & TIE-BACK ANCHOR

BNSF DIESEL SHOP

TEMPORARY EARTH RETENTION

PROJECT DESCRIPTION:

Project Date: Spring 2015

Project Name: BNSF Diesel Shop

Project Location: Tulsa, OK

Geotechnical: Kleinfelder

Tieback / Anchor Design: Schaefer Engineering

Wall Designer: Civil Solutions Associates

General Contractor: B.L. Spille

Owner: BNSF

Scope: Design and install tie-back anchors for a soldier pile with wood lagging wall with E80 loading requirements.

Dwyer's system included 4 rows, a total of 25 anchors, 25 kips each, attached to and through the wall with a series of "C" Channels used for walers. The anchors were installed with a 20 degree inclination from the horizontal plane with a 40ft bond zone and a 10ft free stressing length. The wood lagging was attached to the face of the soldier pile and secure by the means of steel plates with nuts.









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