TECHNICIAN'S CHECKLIST
SECTION 450
PILES

PROJECT: _____ TECHNICIAN: _____

REVIEW DATE: _____ REVIEWER: _____

ACTION	YES	NO	N/A	COMMENTS
Thoroughly review plans, specifications, and any applicable special provision and subsurface information.				
Inspect piles at delivery for proper pick up and storage.				
Upon receipt of piles, check paperwork and fill out a Material Received Report.				
Ensure piles are of correct size and type for the project.				
Inspect concrete piles for damage such as cracking and spalling. Ensure piles contain CaNO2 and pile tips if required.				
Inspect piles for damage. Check piles for coating application and damage. If required, ensure pile driving equipment matches equipment submitted. Check pile hammer type and model, hammer and pile cushions.				
Ensure pile driving operations are not precluded by any seasonal limitations or any other permit conditions.				
Review stakeout with the Contractor. Ensure Contractor understands any offsets from the reference lines.				
If driving concrete piles through embankment, check auguring requirement in the Specifications.				
If driving piles in water, check to see if turbidity curtain is required.				
Check pile driving template, if used, to ensure correct location of piles.				
Ensure pile tips, if required, are used.				
Ensure all welding is performed by a certified welder.				
Check plans to see if Pile Driving Analyzer is required. If required, notify the Geotechnical Unit several days prior to anticipated driving.				
If driving test piles, measure and mark piles. Record driving information on Test Pile Data table and forward information to Geotechnical Unit.				
Ensure proper orientation of H-piles.				
Record length, heat numbers (if applicable), and location of each pile.				
Ensure hammer has jumpstick attached to enable observation of hammer stroke.				
Prior to and during driving, ensure leads are aligned with the pile.				
Prior to, during, and after driving, check pile for plumbness or batter.				
During driving, observe hammer for proper operation. Do not allow excessive stroke or exceed maximum blow count.				
Obtain additional driving tables if the actual hammer stroke does not match table information.				
During driving, observe pile for rebound or other driving irregularities or pile damage.				

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Record penetration of last 10 blows for determination of bearing capacity.				
Set or check pile cut-off elevation and record cut-off for determination of pay length.				
Inspect pile splices to ensure compliance with the pile splice details in the plans. Welding must be performed by a certified welder using approved rods and procedures.				
Piles with holes used for lifting can be used if the hole is 1½ inches or less in diameter and the hole was drilled or punched with applicable touch up of coating. If holes in piles are formed with a cutting torch, the portion of the pile with the hole must be cut off and wasted. Notify RE if minimum embedment or minimum tip elevation cannot be obtained.				
Observe and record details of jetting operations if used for pile installation.				
Inspect piles after driving for damage to piles or applicable coatings.				