

Pile Driving Record

Harbor Point Marina, Dock C

Contractor: Ground Truth Demo Co. · Replacement of Dock C at Harbor Point Marina: 600 ft steel-pipe main pier with timber finger piers. Local site grid, feet.

PILE ID

B30-D

Bent 30 / Pile D

Status: Flagged

BENT / PILE 30 / D	PLAN COORDINATES X 348.0, Y 10.5 ft	PILE TYPE 16" steel pipe	MATERIAL / SIZE Steel, 16" pipe
DESIGN LENGTH 61.5 ft cut-off to tip; 65 ft nominal	AS-DRIVEN ATTEMPT Install (1 on record)	DATE DRIVEN Sep 26, 2026	TIME RECORDED 9:12 AM EDT
START / END TIME	CREW Marine Crew 1	OPERATOR Jake Dolan	RIG Barge R-101 / D-30
HAMMER (MAKE / MODEL) Diesel D-30	RATED ENERGY / RAM WEIGHT 30,000 ft-lb / 6.6 kips	RECORDED HAMMER STROKE 4.5 ft	INSPECTOR (QC REVIEWER) —

DESIGN VS AS-DRIVEN

As-driven values are from the install attempt

PARAMETER	UNIT	DESIGN	AS-DRIVEN	DEVIATION	TOLERANCE / CRITERION	RESULT
Location offset, N/S	in	0.0	+1.7	+1.7	±3.0 in	PASS
Location offset, E/W	in	0.0	-0.3	-0.3	±3.0 in	PASS
Batter	in/ft	3.00	3.06	+0.06	±0.25 in/ft	PASS
Cut-off elevation	ft	8.00	7.96	-0.04	±0.08 ft	PASS
Tip elevation	ft	-53.50	-46.30	+7.20	≤ 0 ft	FAIL

Deviation = as-driven – design (negative elevation deviation = deeper than design). Offsets: north and east positive. Tolerances are the project rules in force at QC.

SITE CONDITIONS AT DRIVING

Mudline elevation
-10.8 ft

Water depth
10.9 ft

Tide elevation
0.1 ft

OBSERVATIONS

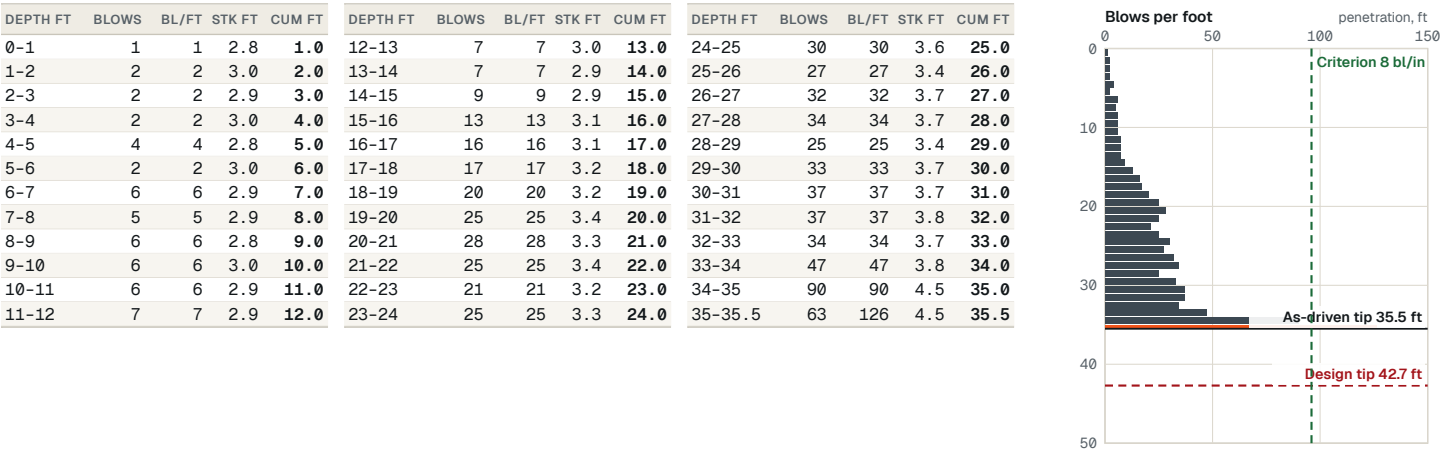
Damage observed
No

Splice
Yes

Refusal
No

DRIVING LOG

36 increments · 751 blows · 35.5 ft



FINAL SET (LAST 6 IN)

10.50 blows/in

63 blows in 6 in

DRIVING CRITERION (ACTIVE RULE)

≥ 8 blows/in over the last 6 in

CRITERION MET

TOTALS

35.5 ft driven

751 blows

last ft: 108 bl/ft

ESTIMATED CAPACITY (ESTIMATE ONLY)

≈ 510 kips

Ultimate, FHWA-modified Gates dynamic formula; E = 29,700 ft-lb (ram 6.6 kips × recorded stroke 4.5 ft). Dynamic-formula screening value, not a PDA / CAPWAP result or load test.

QUALITY CONTROL

AUTOMATED CHECK (RULES ENGINE) FLAGGED Sep 26, 2026 9:15 AM	REVIEWER DECISION No reviewer action recorded.
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CHECK	REQUIRED	RECORDED	RESULT
Tip at or below design tip elevation	≤ 0 ft	+7.20 ft	FAIL
N/S location within ±3 in	±3.0 in	+1.7 in	PASS
N/S location approaching tolerance (±2 in)	±2.0 in	+1.7 in	PASS
E/W location within ±3 in	±3.0 in	-0.3 in	PASS
E/W location approaching tolerance (±2 in)	±2.0 in	-0.3 in	PASS
Batter within ±0.25 in/ft of design	±0.25 in/ft	+0.06 in/ft	PASS
Cut-off elevation within ±1 in of design	±0.08 ft	-0.04 ft	PASS
Final set at least 8 blows/in averaged over the last 6 in	≥ 8 blows/in	10.5 blows/in	PASS
No pile damage observed	= false	no	PASS

AI-GENERATED, VERIFY

Tip at or below design tip elevation: recorded 7.2, required ≤ 0 ft.

Likely cause: A dense lens above the design tip met the blow-count criterion early, so the hammer stopped short of the design tip. The pattern matches the other piles in bents 30 to 36 (false set).

Suggested remediation: Re-strike after set-up: Confirm the disposition with the engineer of record before work proceeds.

Confidence: medium. The pass / fail result above comes from the rules engine; this text is advisory only.

ATTEMPTS AND REWORK HISTORY

1 attempt on record

#	TYPE	DATE / TIME	CREW	TIP EL. FT	SET BL/IN	QC OUTCOME / REMARKS
1	INSTALL	Sep 26, 2026 9:12 AM	Marine Crew 1	-46.30	10.50	Flagged (auto) tip elev +7.20 ft from design (limit ≤ 0 ft)

Single install attempt; no rework orders have been issued for this pile.

FIELD COMMENTS (INSTALL ATTEMPT)

Set met at el. -46.3, pile bouncing, released

CERTIFICATION AND SIGNATURES

I certify that the information on this record is a true and accurate account of the installation of this pile.

Pile driving operator Printed name Date	Inspector Printed name Date	Engineer of record Printed name Date
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