Water Absorption (ASTM D-570):

7 day	Total Water Absorption (2 hour boil)	0.7%

SIKADUR 32

Deflection Temperature (ASTM D-648):

14 day	Deflection Temperature (fiber stress loading 264 psi)	121F

Bond Strength (ASTM C-882):

14day (moist cure)	Plastic Concrete to Hardened Concrete	1,900 psi
	Plastic Concrete to Steel	1,900 psi

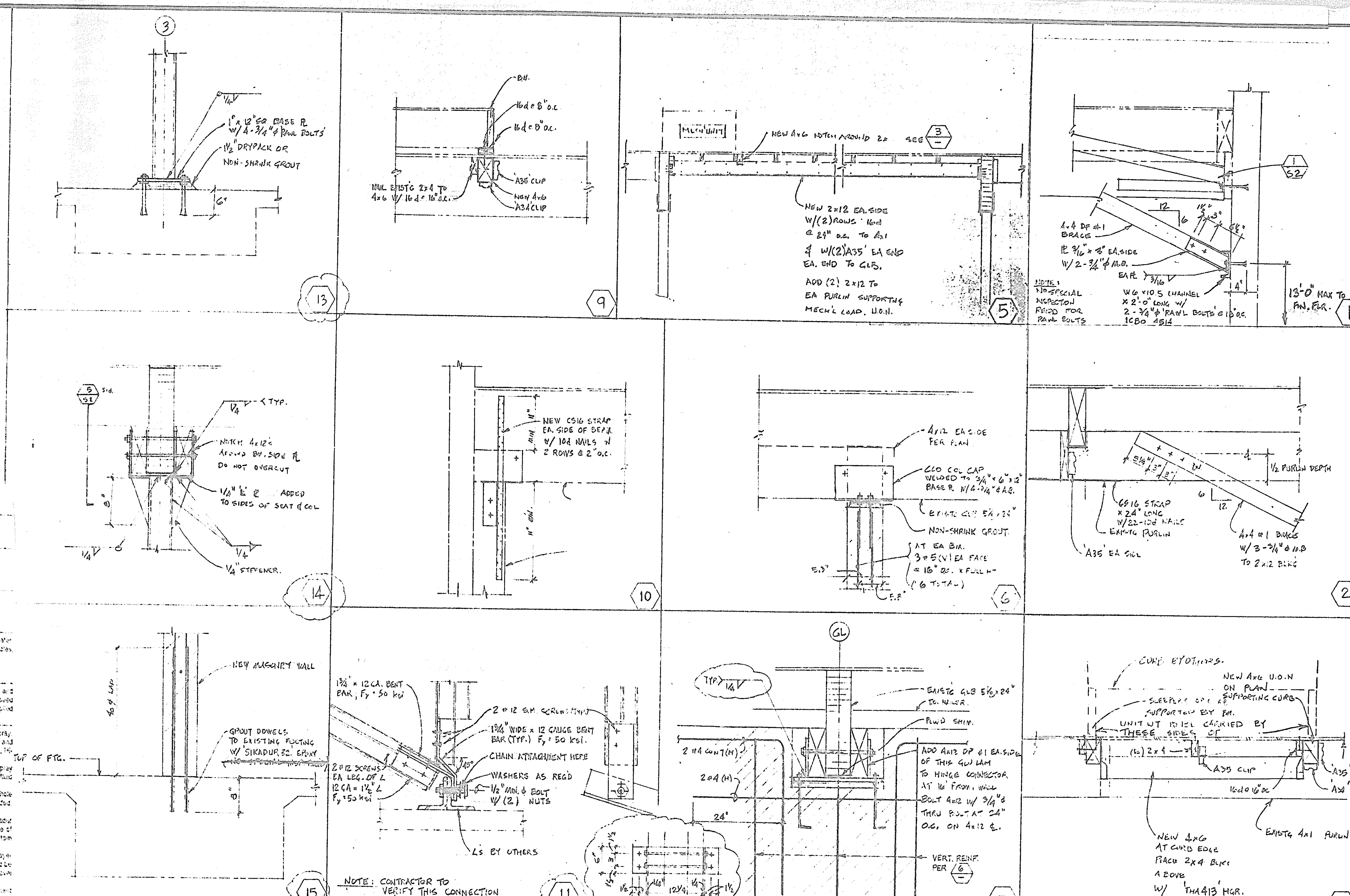
Material cured and tested at the temperatures indicated.

How To Use

Surface Preparation: Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials.
Preparation Work: Concrete - Sandblast or use other approved mechanical methods.
Steel - Sandblast to white metal finish.

Mixing: Pre-mix each component. Proportion equal parts by volume of Component 'A' and Component 'B' into clean pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400- 600 rpm) drill until blend is a uniform color. Mix only that quantity that can be applied within its pot life.

Application: **To bond fresh concrete to hardened concrete** - Apply by brush, roller, broom, or spray. Place fresh concrete while Sikadur 32, Hi-Mod, is still tacky. If coating becomes glossy and loses tackiness, remove any surface contaminates then recoat with additional Sikadur 32, Hi-Mod, and proceed.
When spraying, use the following or similar equipment. Binks Model #18 Air-Atomized Spray Gun (#68 fluid nozzle, #68 PB air nozzle, #68 fluid needle; #83 - 5661 2 gal pressure fluid tank). Consult Technical Service.
To anchor bolts, dowels, and pins - Use neat. For efficient transfer of stress, the hole should be no greater in diameter than 1/4 in. larger than the bar, pin, or rod to be embedded. Depth of embedment is typically 10 to 15 bar diameters.
To grout base plates - Add up to 1 parts of oven-dried aggregate to 1 part of mixed Sikadur 32, Hi-Mod, by volume. Place grout under base plate. Avoid contact with the underside of the plate. A 1/4 to 3/8 in. space should remain between the top of the grout and the bottom of the plate.
Maximum thickness of grout per lift is 1 in. If multiple lifts are needed, allow preceding layer to cool to touch before applying additional layer. The remaining 1/4 to 3/8 in. space should be filled with neat Sikadur 32, Hi-Mod. Pour a sufficient quantity of neat epoxy to allow the level to rise slightly higher than the underside of the bearing plate.
To gravity feed cracks - Pour neat material into vee notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.



How To Use SIKAGROUT 212

Surface Preparation: Remove all dirt, oil, grease, and other bond inhibiting materials by mechanical means. Anchor bolts to be grouted must be degreased with suitable solvent. Concrete must be sound and roughened to promote mechanical adhesion. Prior to pouring, surface should be brought to a saturated surface-dry condition.

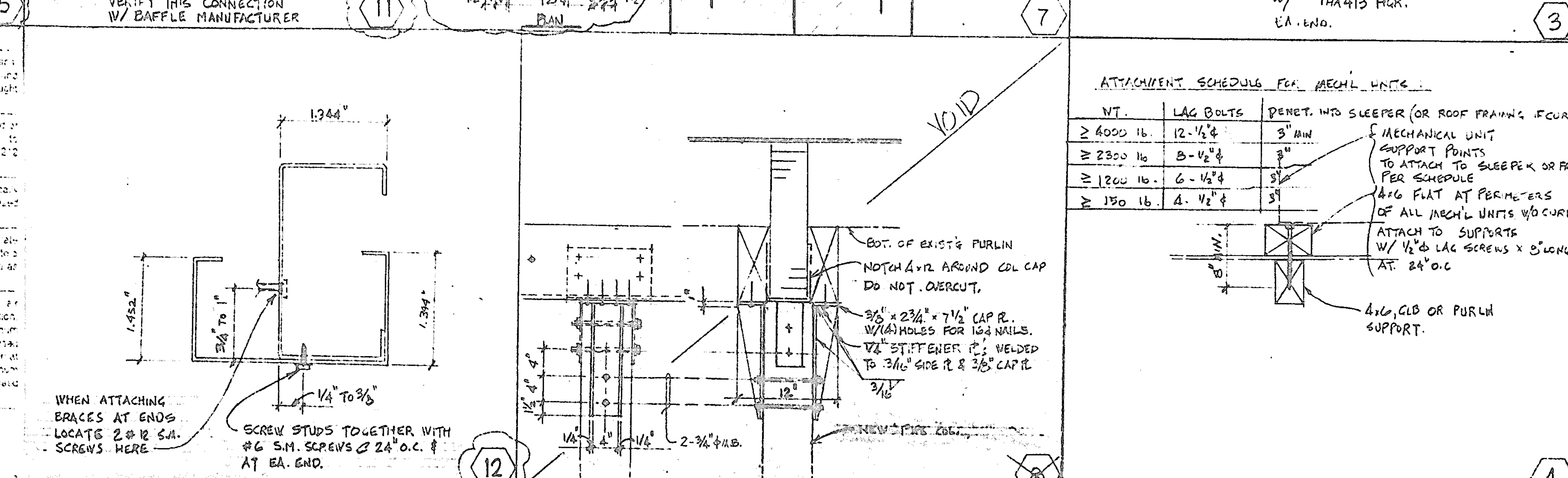
Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be lined or coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate head of grout. Where grout-tight forms is difficult to achieve, use SikaGrout 212 in dry pack consistency.

Mixing: Mix manually or mechanically. Mix manually in a wheelbarrow or mortar box. Mechanically mix with low-speed drill (400 - 600 rpm) and Sika mixing paddle or in a suitably sized mortar mixer.

Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on hand. Add appropriate quantity of clean water to achieve desired flow. Add bag of powder to mixing vessel. Mix to a uniform consistency, minimum of 3 minutes. Ambient and material temperature should be as close as possible to 70F. If higher, use cold water; if colder, use warm water.

Application: Within 15 minutes after mixing, place grout into forms in normal manner to avoid air entrapment. Vibrate, pump, or ram grout as necessary to achieve flow or compaction. SikaGrout 212 must be confined in either the horizontal or vertical direction leaving minimum exposed surface. After grout has achieved final set, remove forms, trim or shape exposed grout shoulders to designed profile. SikaGrout 212 is an excellent grout for pumping, even at high flow. For pump recommendations, contact Technical Service. Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 to exposed surfaces.

Limitations:
- Minimum ambient and substrate temperature 45F and rising at time of application.
- Minimum application thickness 1/2 in.
- Do not use as a patching mortar or in unconfined areas.
- Material must be placed within 15 minutes of mixing.
- Variations in cements could cause shade differences in color of the mortar.



ATTACHMENT SCHEDULE FOR MECH'L UNITS:

WT.	LAG BOLTS	PENET. INTO SLEEPER (OR ROOF FRAMING IF CURB)
≥ 4000 lb.	12 - 1/2" ϕ	3" MIN
≥ 2300 lb	8 - 1/2" ϕ	3"
≥ 1200 lb.	6 - 1/2" ϕ	3"
≥ 150 lb.	4 - 1/2" ϕ	3"

REVISIONS	BY

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REGISTERED PROFESSIONAL ENGINEER · KENNETH A. BOE · NO. 3094 · EXP. 3-31-97 · STRUCTURAL · STATE OF CALIFORNIA

DRAWING CONTENTS: STRUCTURAL DETAILS

PROJECT: ACCURACY GUN
7818 Wilkerson Ct. San Diego, CA 92123

- DESIGN DEVELOP
- PLAN CHECK 1 5/18/94
- PLAN CHECK 2
- BIDDING
- CONSTRUCTION
- CLARIFICATION
- RECORD

DATE	5/18/94
SCALE	VARIES
DRAWN	K.B.
JOB	ACCURACY
SHEET	S-3
OF	23 SHEETS

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