

Experience



the Hi-Lite Advantage

Drop Leg Fly Form System Safety Manual



THIS ENGINEERING MANUAL IS SUBJECT TO PERIODIC REVISION AND UPDATING. BEFORE DESIGNING ANY SHORING AND FORMING SYSTEM USING HI-LITE SYSTEMS EQUIPMENT, CONTACT HI-LITE SYSTEMS ENGINEERING DEPARTMENT @ 905-677-4032 TO ENSURE YOU ARE USING THE MOST RECENT REVISION OF THIS MANUAL.

WARNING!

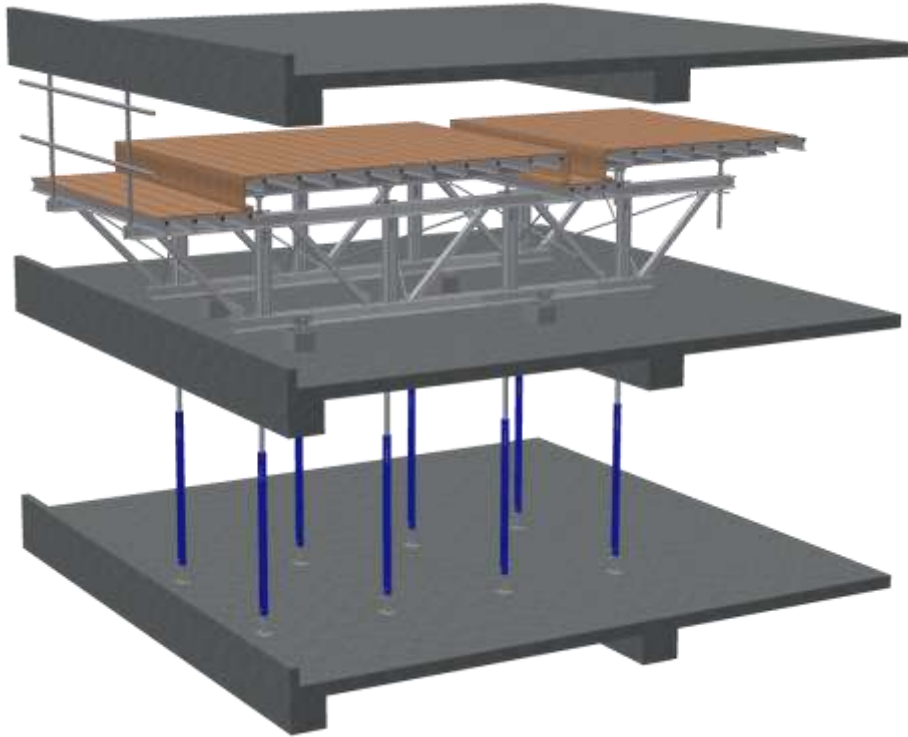
USE OF THIS PRODUCT DATA AND INFORMATION IS FOR THE SOLE AND EXCLUSIVE USE BY TECHNICALLY QUALIFIED INDIVIDUALS WITH APPROPRIATE EDUCATION, TRAINING AND EXPERIENCE, WITH GENERAL FORMING AND SHORING DESIGN PRINCIPLES AND ENGINEERING DESIGN FUNDAMENTALS.

FAILURE TO FOLLOW PROPER PROCEDURE, BOTH AS SET FORTH IN THIS GUIDE AND IN ACCORDANCE WITH APPROVED ENGINEERING PLANS, AND GOOD AND SAFE CONSTRUCTION PRACTICES, CAN LEAD TO DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

THE INFORMATION CONTAINED IN THIS SUPPLEMENT MUST BE CAREFULLY FOLLOWED. FAILURE TO COMPLY WITH THE INFORMATION, GUIDELINES AND SUGGESTIONS IN THIS SUPPLEMENT MAY RESULT IN DEATH, SERIOUS BODILY INJURY OR PROPERTY DAMAGE.

IF YOU ARE IN DOUBT OR IN NEED OF TECHNICAL ASSISTANCE OR ADVICE YOU MUST CONTACT HI-LITE SYSTEMS ENGINEERING.





The Drop Leg Fly Form System is a ganged or large area formwork system. It is flown with a crane, and may also be used quite successfully as a rolling shoring system. (Consult with Hi-Lite Engineering for design)

This manual is published primarily for our customers, shoring designers and erectors this aluminum shoring system. It is intended only as a guide and should be used in conjunction with “generally accepted shoring design and safety regulations” in effect within the area and country of use.

The purpose of this manual is to simplify the understanding and use of the System.

The Manual covers the correct use of the system including handling and maintenance of the equipment.

Local authorities and/or a locally registered Professional Engineer should approve all drawing for construction purposes.

Barry & Dave Jackson

HI-LITE SYSTEMS

INTRODUCTION AND GENERAL GUIDELINES

PURPOSE:

TO PROVIDE TECHNICAL INFORMATION FOR THE PROPER USAGE OF THE HI-LITE'S ALUMINUM DROP LEG FLY FORM SYSTEM.

THIS INFORMATION IS INTENDED TO BE USED BY TECHNICALLY QUALIFIED INDIVIDUALS WITH APPROPRIATE KNOWLEDGE OF GENERAL FORMING AND SHORING DESIGN PRINCIPALS AND ENGINEERING DESIGN STANDARDS.

THE TECHNICAL DATA PRESENTED IN THIS MANUAL IS BASED ON THEORETICAL CALCULATIONS AND TESTING. BOTH CALCULATIONS AND TASTING HAD BEEN DONE IN ACCORDANCE WITH APPLICABLE DESIGN STANDARDS.

GENERAL GUIDELINES FOR SAFE USE OF HI-LITE ALUMINUM DROP LEG FLY FORM SYSTEM

THE FOLLOWING GUIDELINES ARE INTENDED TO ENSURE THAT DESIGNERS ADDRESS THE FOLLOWING CRITICAL ISSUES WHILE DESIGNING ANY FORMING OR SHORING APPLICATIONS OR OTHERWISE USING HI-LITE'S ALUMINUM DROP LEG FLY FORM SYSTEM.

SAFETY

HI-LITE ALUMINUM DROP LEG FLY FORM SYSTEM ARE INTENDED ONLY FOR USE BY TRAINED AND EXPERIENCED WORKERS. MISUSE OR LACK OF SUPERVISION AND / OR INSPECTION CAN CONTRIBUTE TO ACCIDENTS RESULTING IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATHS.

HI-LITE CAN INSURE THAT EVERY PRODUCT THE MANUFACTURE AND SELL MEETS OR EXCEEDS APPLICABLE PRODUCTION AND SAFETY REQUIREMENTS. HOWEVER, THE PERFORMANCE OF A PRODUCT CAN BE GREATLY AFFECTED BY THE MANNER IN WHICH THE PRODUCT IS USED. IT IS IMPOTANT THAT THE USER BE INSTRUCTED IN THE PROPER INSTALATION ANS USE OF THE PRODUCT PRIOR TO JOB APPLICATION.

THE AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATIONS, FORMWORK FOR CONCRETE (ACI SP-4) AND GUIDE TO FORMWORK FOR CONCRETE ARE EXCELENT REFERENCE MATERIALS. THESE PUBLICATIONSARE AVAILABLE FROM: www.concrete.org

FOR ADDITIONAL SAFETY INFORMATION, THE USER IS ADVISED TO CONSULT THE DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) ACT, PART 1910 AND 1926. AVAILABLE FROM: www.osha.gov



SAFETY FACTORS

OUR EQUIPMENT ARE CONSTANTLY TESTED TO ASSURE THE USER A HIGH STANDARD OF QUALITY. SAMPLES ARE TESTED IN HI-LITE TEST FACILITIES. THE SAFE WORKING LOADS LISTED IN THIS MANUAL WERE DETERMINED FROM THE RESULTS OF TESTING PROGRAM. THE SAFETY FACTOR APPLIED TO THE PRODUCT IS DEPENDENT ON THE DEGREE OF HAZARD OR RISK INVOLVED IN THE APPLICATION OF THE EQUIPMENT AND JOB SITE CONDITIONS, WHICH CAN OFTEN INCREASE THE DEGREE OF RISK.

CONCENTRATED LOADS, SUCH AS CONSTRUCTION MATERIALS STACKED ON THE FORMWORK, NON-SYMMETRICAL PLACEMENT OF CONCRETE, UPLIFT, IMPACT OF MACHINE DELIVERED CONCRETE, USE OF MOTORRIZED CARTS AND EXTRIME FORMWORK HEIGHT, ARE EXAMPLES THAT PRODUCE HIGH RISK FACTOR.

PLEASE CONSULT ENGINEERING DEPARTMENT OF HI-LITE-SYSTEMS IF YOU HAVE ANY OF THE ABOVE

HI-LITE TECHNICAL ASSISTANCE

IN THE SITUATONS WHERE A CONTRACTOR DOES NOT HAVE A QUALIFIED PERSON ON STAFF, HI-LITE TECHNICAL ASSISTANCE PERSONNEL ARE TRAINED TO PROVIDE SUCH SERVICES.

	WARNING
	IMPROPER USE OF HI-LITE DROP LEG FLY FORM SYSTEMS MAY COUSE PROPERTY DAMAGE. SERIOUS INJURY OR DEATH.
	THE USER MUST FOLLOW THE INSTRUCTIONS AND REGULATIONS OF HI-LITE SYSTEM ENGINEERING DEPARTMENT WHEN IN DOUBT ABOUT PROPER USE OR INSTALLATION, IMMEDIATELY CONTACT HI-LITE SYSTEMS ENGINEERING OR TECHNICAL PERSONNEL FOR CLARIFICATION.

SHORING SAFETY GUIDLINES

SAFETY COMES FIRST

SAFETY IS EVERYONE'S RESPONSIBILITY

CONSTRUCTION PROJECTS SHOULD BE SAFE WORKPLACE. WORKERS, SUPERVISORS AND EMPLOYERS ARE ALL RESPONSIBLE FOR SAFETY.

OUR COMMITMENT TO A SAFE WORK ENVIRONMENT IS THE PRIORITY OF OUR OPERATING SYSTEM AND OUR SAFETY POLICY, EQUIPMENT SYSTEMS AND DESIGNED TO ENGAGE OUR ENTIRE WORKFORCE IN DELIVERY OF SAFE WORK ON ALL OUR AND OUR PARTNERS / CUSTOMERS PROJECTS.

ON SITE SAFTY DEPENDS UPON THE PROPER ERECTION AND SAFE USE OF SHORING AND FORMING EQUIPMENT.

HI-LITE PRODUCTS ARE DESIGNED TO HELP CONTRACTORS TO INCREASE SAFETY, PRODUCTIVITY AND EFFICIENCY.

ALL OF OUR EQUIPMENT DESIGNED ACCORDING TO NORTH AMERICAN AND INTERNATIONAL STANDARDS.

ALL THE SYSTEMS DESIGN WITH SAFETY FACTOR 2.5:1 FOR THE SHORING AND FORMING AND 4:1 FOR SCAFFOLDING.

HI LITE'S DOCUMENTATION IS CONVENIENT, EASY TO READ AND EASY TO USE. WE WILL SHOW YOU THE RIGHT WAY TO USE AND OPERATE OUR SYSTEMS. IT WILL TELL YOU ALL YOU NEED TO KNOW FOR SAFE AND EFFECTIVE WORK ON JOBSITE.



SAFETY GUIDLINES

- INSPECT ALL THE EQUIPMENT BEFORE USING.
- ALL SHORING LAYOUTS SHOULD BE AVAILABLE AND USED ON CONSTRUCTION SITE ALL THE TIME
- FOLLOW ALL THE INSTRUCTION AND INSPECT ALL SHORING AND FORMING EQUIPMENT FOR CONFORMITY WITH LAYOUT AND SAFETY PRACTICE BEFORE POUR, DURING AND AFTER POUR UNTIL CONCRETE IS SET.
- CONSULT HI-LITE SYSTEMS IF YOU HAVE ANY QUESTIONS.

HI-LITE INSTRUCTIONS FOR ASSEMBLY AND USE SHOW YOU, IN DETAILS, THE RIGHT WAY TO SET UP AND USE THE FORMWORK AND SHORING SYSTEMS. THIS INFORMATION IS AN IMPORTANT TOOL TO HELP YOU WORK WITH THE HI-LITE EQUIPMENT CORRECTLY.

UNDERSTANDING AND FOLLOWING THESE SAFETY GUIDELINES WILL IMPROVE SAFETY FOR ALL WORKERS ON THE CONSTRUCTION SITE. IF THERE ARE ANY QUESTIONS , OR IF YOU NEED ASSISTANCE IN OBTAINING ADDITIONAL TRAINING FOR YOUR EMPLOYEES, PLEASE CONTACT HI-LITE.

ASSEMBLY SAFETY RECOMMENDATIONS

ALL THE ERECTION CREW MUST BE EQUIPPED WITH HARNESSSES AND DOUBLE LANYARDS..

THE FOUNDATION MUST HAVE SUFFICIENT STRENGTH TO SAFELY SUPPORT THE ERECTED SHORING TOWERS.

SLOPPED SURFACES MUST BE COMPENSATED FOR BY LEVELING THE AREA BELOW THE BASEPLATES OR BY PROVIDING WEDGES SECURELY ATTACHED TO SILLS. SILLS SHOULD BE 2 in x 10in (50mm x 250mm) WOOD PLANKS OF SUITABLE LENGTH.



HI-LITE FORMS SAFETY GUIDELINES

ASSEMBLY OF FLY FORMS

1. MAIN CONTRACTOR MUST PROVIDE AN OPEN AND LEVELED AREA OF AT LEAST 12.0M X 12.0M (40' X 40') DIMENSIONS FOR ASSEMBLING EACH FLY FORM BEFORE MOVING TO EXACT LOCATION.
2. FLY FORM ASSEMBLY ON ITS EXACT POSITION IS APPLICABLE ONLY WHEN THE FLY FORM IS SITTING ON THE GROUND LEVEL OR WHEN THE FLY FORM BEING ASSEMBLED NOT LESS THAN 2.0M (6.5') AWAY FROM THE SLAB.
3. WORKERS MUST WEAR SAFETY BELTS WHEN WORKING ABOVE 2.0M (6.5') AND MUST BE PROPERLY ANCHORED.

FLYING AND INSTALLATION OF FLY FORMS

1. MAKE SURE THAT THE FOLLOWING ITEMS ARE AVAILABLE AND IN GOOD WORKING CONDITIONS.

TO BE PROVIDED BY MAIN CONTRACTOR:

- A. LIFTING BELTS
- B. SAFETY BELTS
- C. 4 PCS OF 1.0" X 32' (10m) NYLON ROPE AS GUIDE ROPES.

TO BE PROVIDED BY SUPPLIER

- A. MECHENICAL JACK DOLLY
 - B. 4x4 FORM MOVERS
 - C. ROLLOUT ROLLERS
2. LIFTING BELTS SHOULD BE INSPECTED BEFORE EVERY USE.
 3. CHECK FLY FORM IF IT'S CLEAR OF DEBRIS OR ANY KIND OF LOOSE MATERIALS THAT COULD POSSIBLY FALL DOWN.
 4. TIGHTEN LOOSE BOLTS OR CLIPS.
 5. SECURE THE WEDGE UNITS HANGING ON THE HOOKS PROVIDED ON THE TRUSS

HI-LITE FORMS SAFETY GUIDELINES

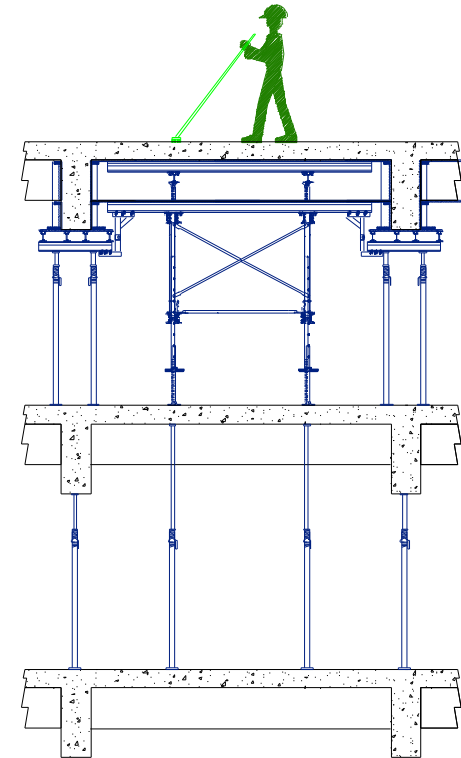
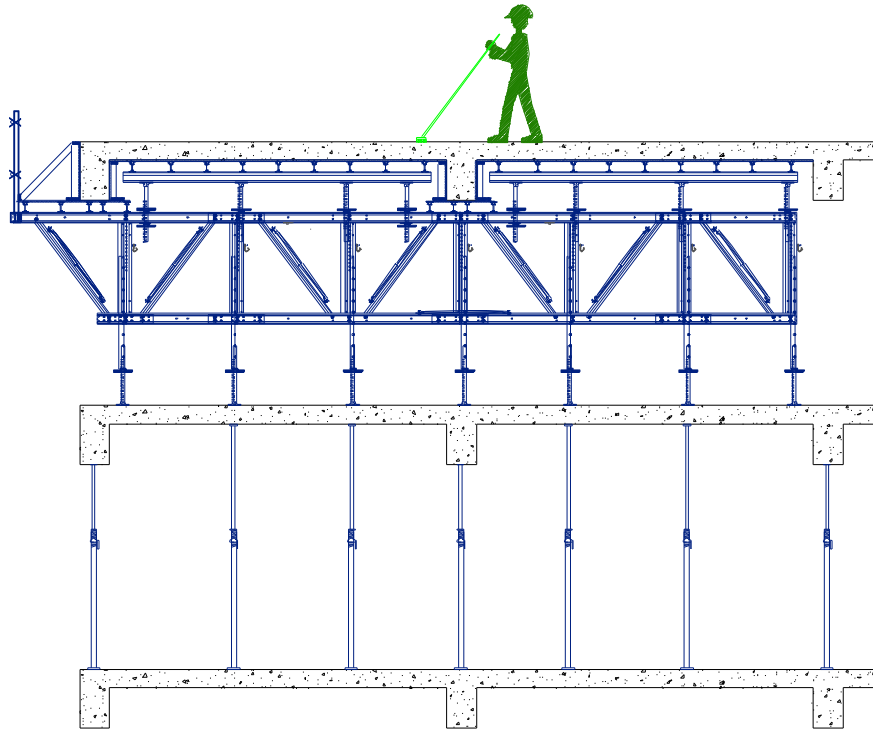
8. MAKE SURE THAT THE AREA DIRECTLY BELOW STRIPPING THE FLY FORM TO BE FLIED OUT IS BARRICADED AND **“DANGER”** SIGHS WERE PLACED.
9. GUIDE/CONTROL ROPES MUST BE READY AND TIGHTENED TO THE COLUMNS BEFORE PUSHING OUT THE FLY FORM OFF THE BUILDING
10. CLEAN THE LENDING AREA OF THE FLY FORM OF ANY OBSTRUCTION.
11. INSTALL ALL LEGS AND SCREW JACKS BEFORE APPLYING ANY LOAD.
12. FLY FORMS ARE DESIGNED WITH CANTILEVERS, MAKE SURE THAT ANY LOAD APPLIED DURING SETTING IS IN MIDSPAN OF THE FLY FORM AND WILL NOT CAUSE THE FLY FORM TO OVER TURN.

STRIPPING OF THE FLY FORMS

1. CHECK THAT CASTED SLAB REACHES REQUIRED STRENGTH BEFORE STRIPPING.
2. REMOVE ANY OBSTRUCTIONS THAT CAN PREVENT FLY FORM IN LOWERING.
3. CHECK JACK DOLLYS AND ROLLOUT ROLLERS FOR ANY FAULTY BEFORE USING.
4. LOWER FLY FORM AND THEN REMOVE ALL FILLERS AND BEAM SIDINGS. THESE COULD POSSIBLY FALL DOWN WITHOUT NOTICE AND CAN INJURE ANYBODY.
5. WORKERS WORKING NEAR EDGE OF THE OPENINGS SHALL PUT SAFETY HARNESS SECURED TO LIFELINE AT ALL TIME.
6. CHECK FLY FORM TOPS OF IF IT'S CLEAR OF DEBRIS OR ANY KIND OF LOOSE MATERIALS THAT COULD POSSIBLY FALL DOWN DURING FLYING.

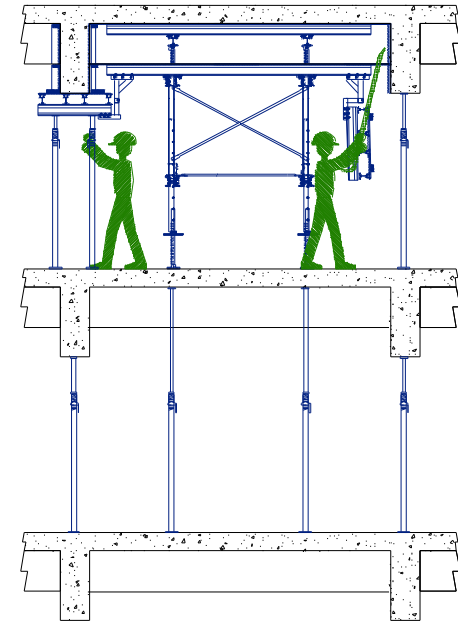
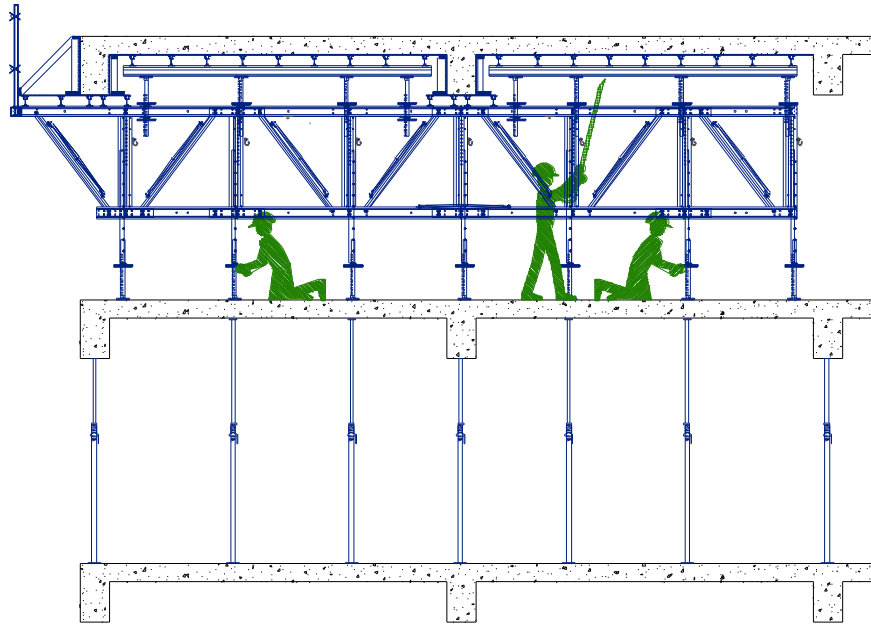
UNDERSTANDING AND FOLLOWING THESE SAFETY GUIDELINES WILL IMPROVE SAFETY FOR ALL WORKERS ON THE CONSTRUCTION SITE. IF THERE ARE ANY QUESTIONS , OR IF YOU NEED ASSISTANCE IN OBTAINING ADDITIONAL TRANING FOR YOUR EMPLOYEES, PLEASE CONTACT HI-LITE.

STEP 1: CLEAN SLAB



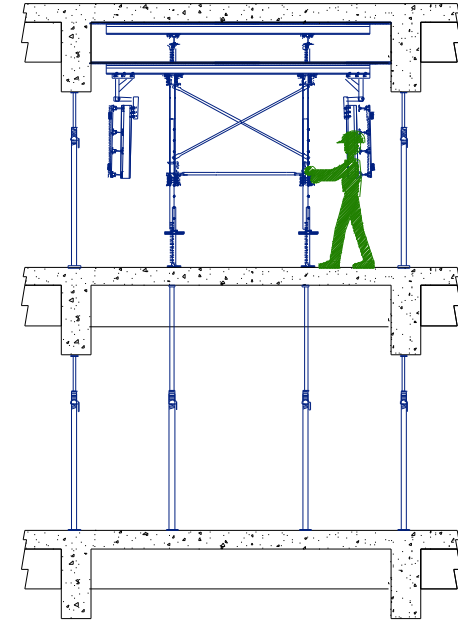
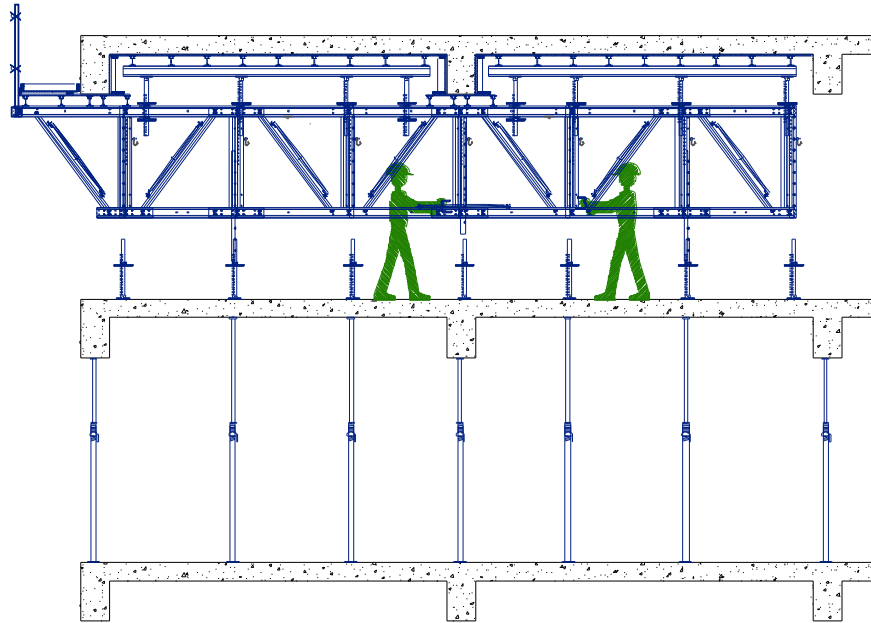
Clean the area (bay) where the fly form will be flown to, prior to attaching the crane to the form to be flown. The Landing Jack Dollies and Screw Jack Moving Dollies will not work on a untidy slab. A clean working area, reduces injuries, reduces time to positioning of the Fly Form and most importantly it reduces the amount of crane time need to fly a form from the floor below. Reducing crane time speeds up the entire project which improves productivity and profit.

STEP 2: PREPARE TRUSS



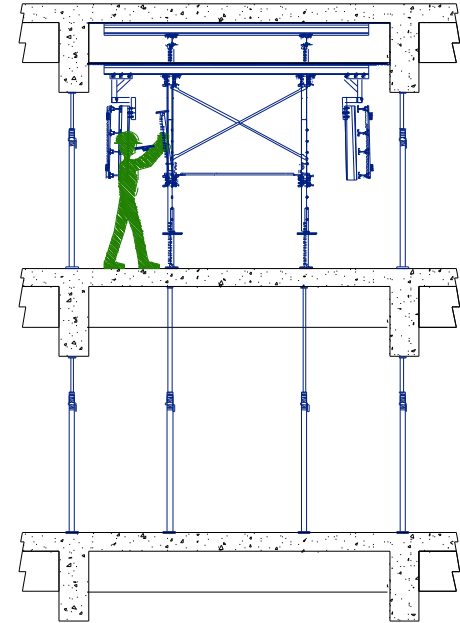
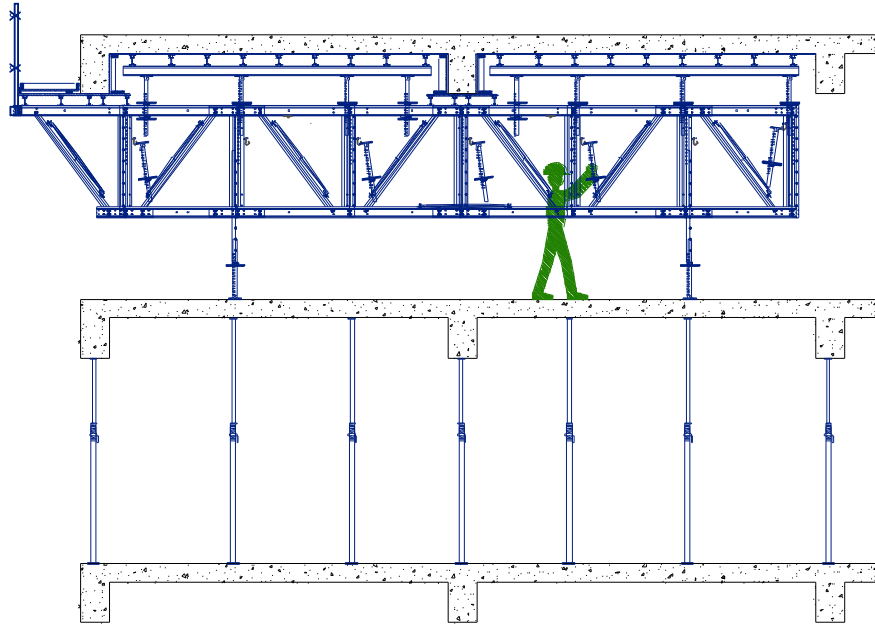
Prepare the Fly Form for stripping by first loosening all the Screw Jack Nuts in the Drop Leg Extension Tubes under the Fly Form to release the pressure of the slab upon the Fly Form Table. Next strip any hinge panels. Post shores can be repositioned for reshoring, if they do not interfere with the movement of the Fly Forms. Then remove any side timbers which are supporting the filler strips off of the walls and columns of the bay.

STEP 3: RAISE EXTENSIONS



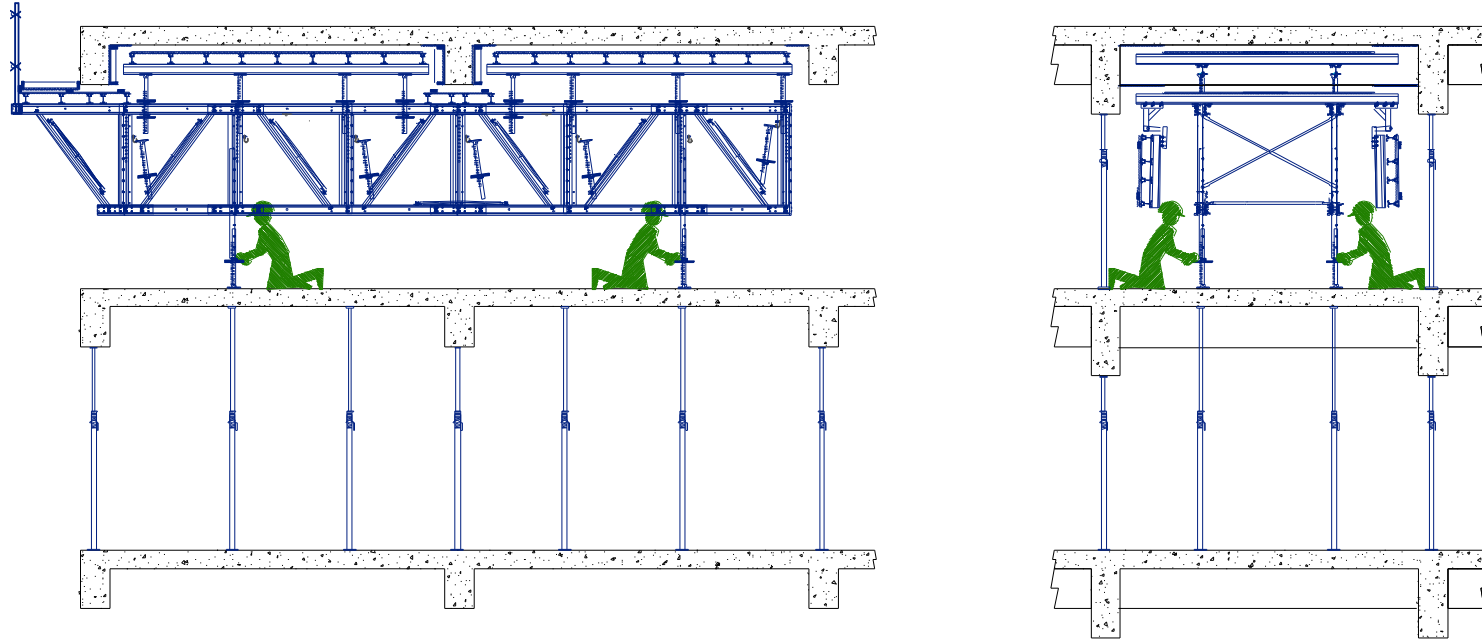
Remove the U-Pin securing the Drop Leg Extension Tube to the Vertical Strut on the bottom of the Truss with exception for two Drop Leg Extension Tubes on each Truss which are closest to the 1/3 way points DO NOT adjust these Drop Leg Extension Tubes until STEP 6. Next lift up the Drop Leg Extension Tubes so that they are recessed above the bottom of the Lower Chord and relock them in position using the U-Pin. If you are using a triple Truss (3 Trusses cross braced together) raise all the Drop Leg Extension Tubes from the centre truss except the ones again at the 1/3 way points. NOTE: on trusses 50` and longer, it is a good idea to leave the center Drop Leg Extensions in as well.

STEP 4: REMOVE SCREWJACKS



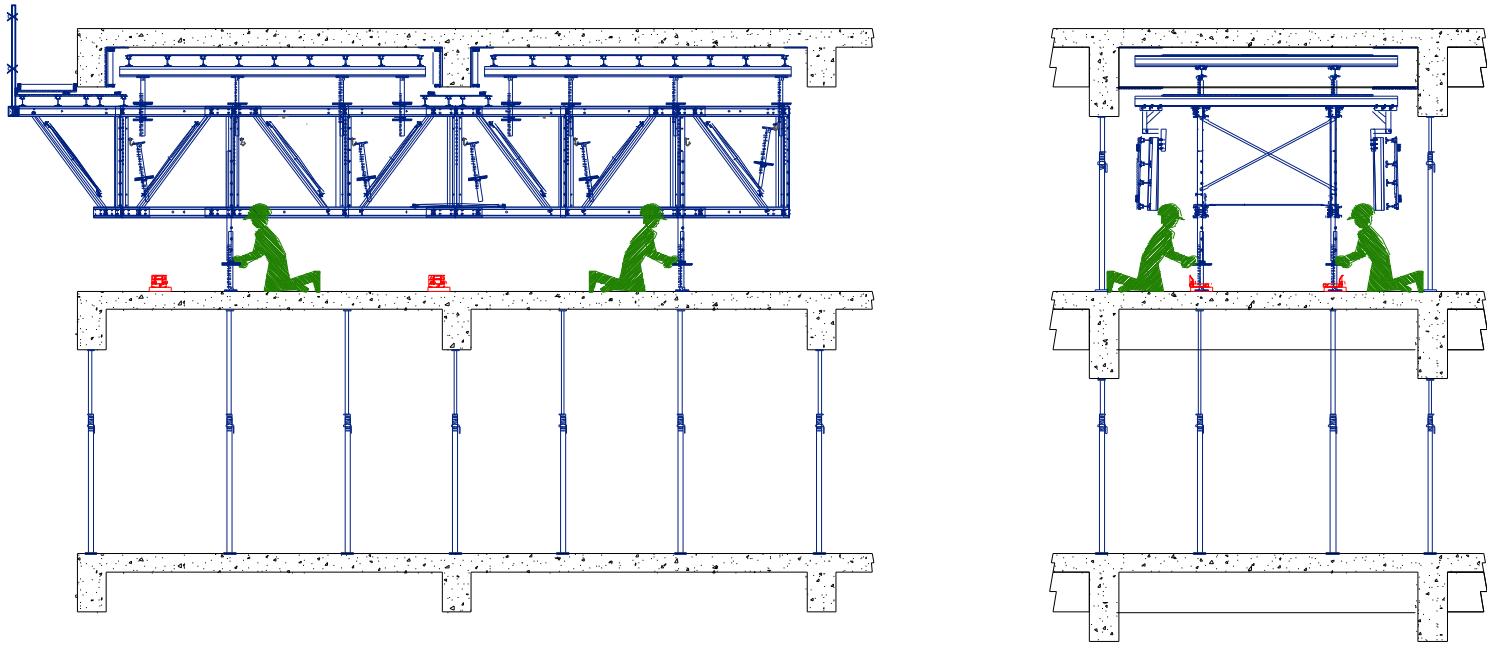
Lift up the Screw Jacks that were removed from under the Truss and hang them on the Hooks (This enables the Screw Jacks to be flown with the Fly Form. And makes them readily accessible when you need them on the floor above.)

STEP 5: LOSSEN FINAL SCREWJACKS



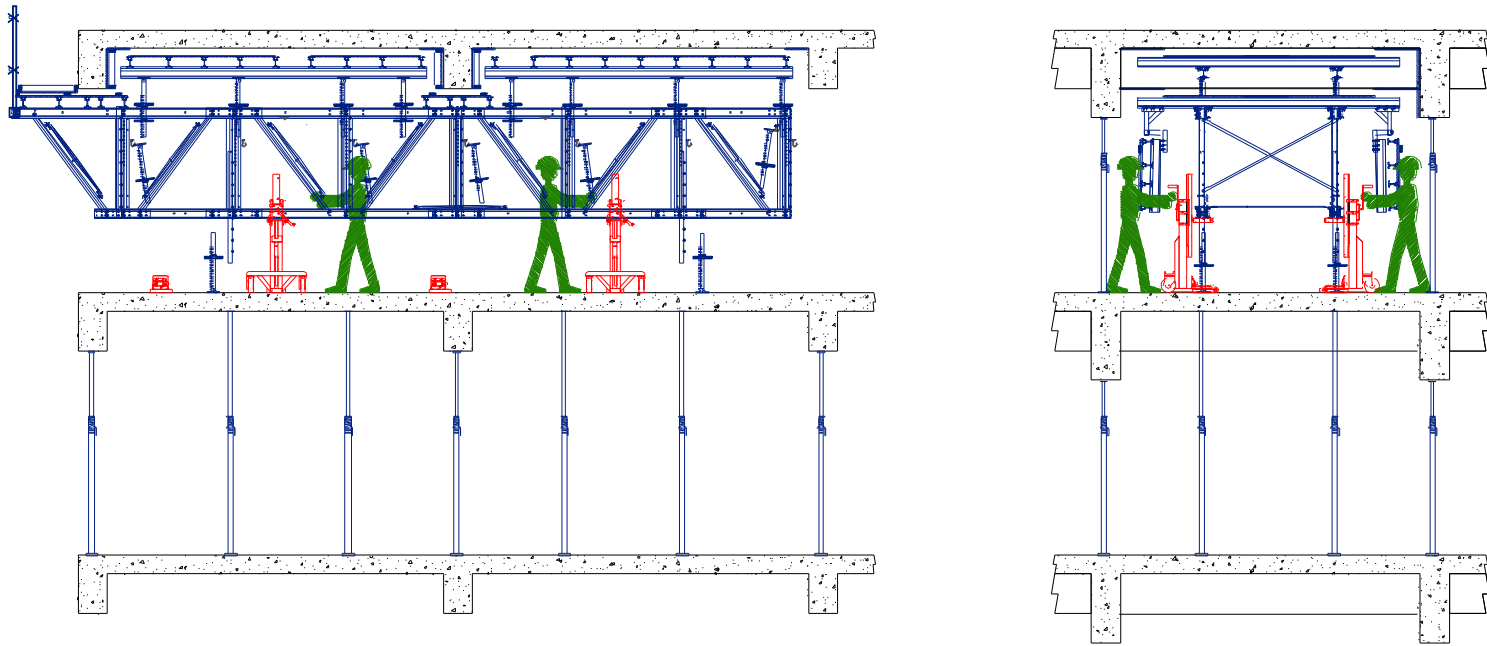
Loosen the remaining Screw Jacks approximately 50mm (2in), If the Fly Form sticks to the concrete above, it can be pried off using crow bars (be careful to not damage the plywood) or often if weight is applied to one corner of the fly form, this is enough to break the suction between the plywood and the fresh concrete. At this time also remove the plywood covering the pick pockets. Note: this plywood over the pick pockets should all be the same size and should not be screwed to the aluminum beams, so that they can be easily removed.

STEP 6: PLACE ROLLOUT ROLLERS



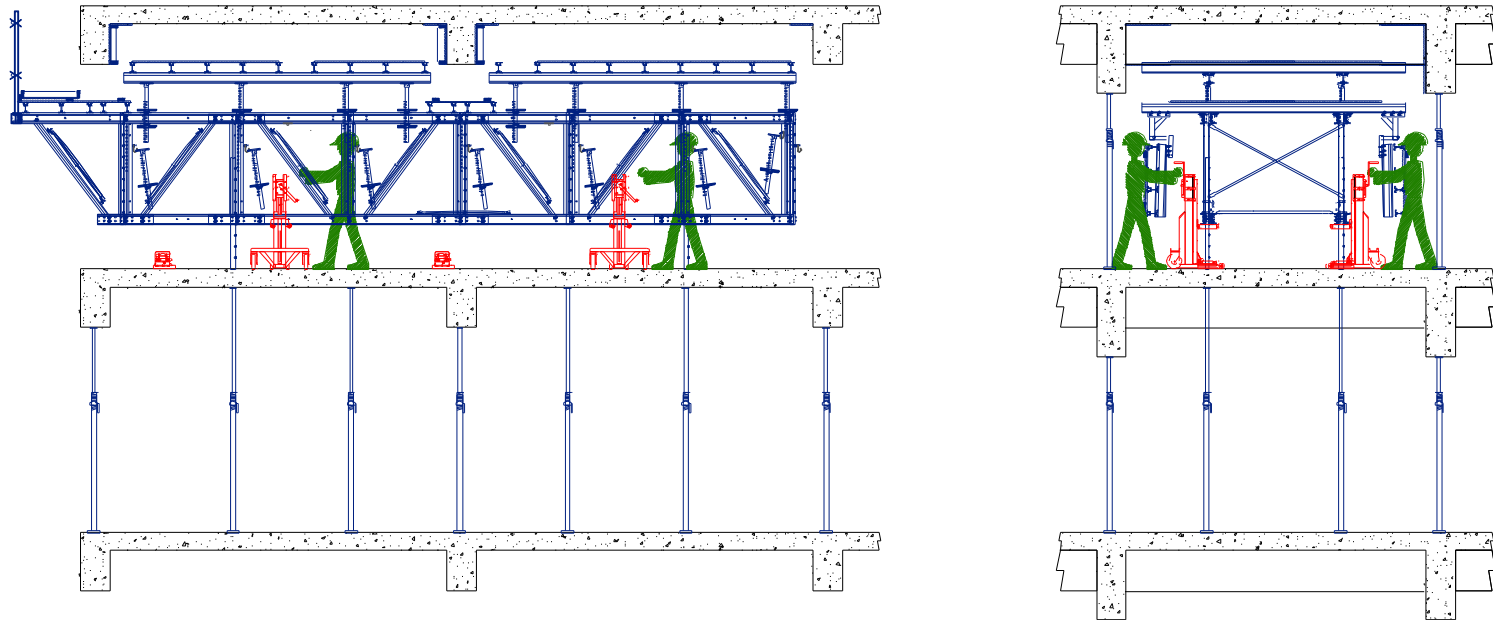
Place one Rollout Rollers per Truss directly under the near the edge of the slab about 1m (3') from slab edge. Place one or two more rollers along each of the chords. On long forms you should use six rollers - two near the slab edge, two 1/3 of the way back, and two at 2/3 way back. On forms up to 12m (40') only four rollers are necessary - two near the edge of the slab and two just past center. When using Triple Trusses additional rollers should be on the centre truss in the same positions as the outside rollers.

STEP 7: POSITION LOWERING JACKS



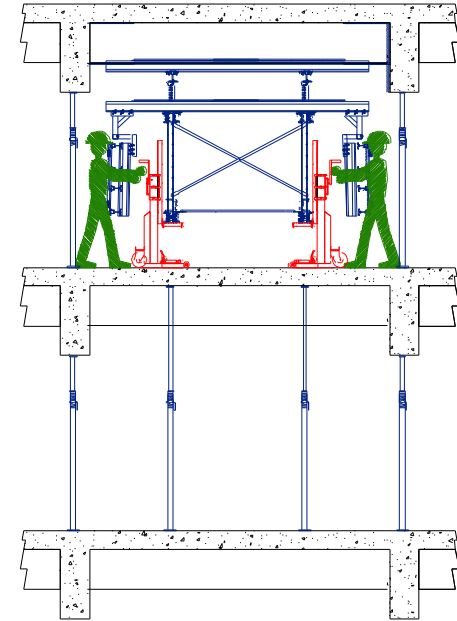
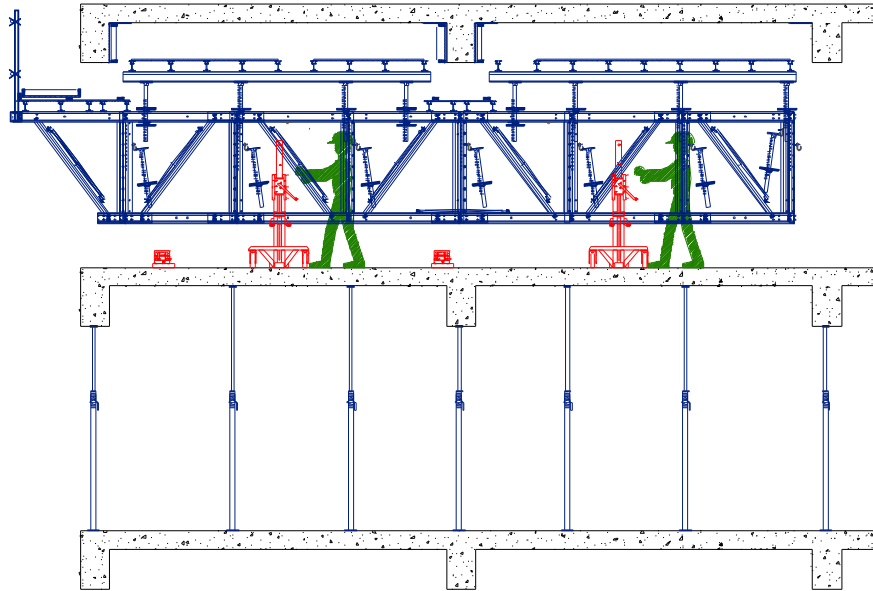
Then place 2 Lowering Jack Dollies (LJD)s under the Bottom Chord of each Truss close to the 1/3 way points but not so that they will interfere with the vertical struts. Wind up the Jack so that the Lifting Strap is resting tight against the Bottom Chords. The LJD must be on Slow Heavy Duty mode. Make sure that all the LJDs are set to the same mode, that the Lifting Strap is at the same position on all Jacks and that the LJDs are at the fully raised position. In this step, the LJDs are going to lower the Fly Form so that it can be rolled out of the building and flown to the next floor. One worker **MUST** be operating each LJD. With the LJDs in position, raise the remaining Drop Leg Extension Tubes and remove the Screw Jacks from under the Fly Form. **Then as a team wind down the LJDs together, keeping the Fly Form Level.** If the Fly Form only needs to be lowered by 900mm (3ft) then steps 8 and 9 can be skipped.

STEP 8: OPTIONAL ONLY FOR LOWERING MORE THAN 900MM (3'FT)



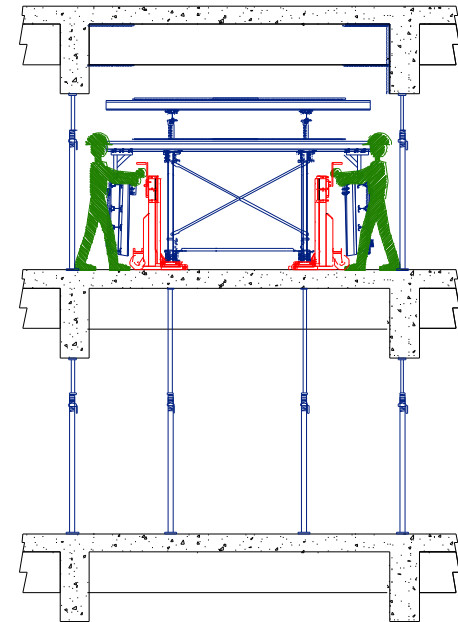
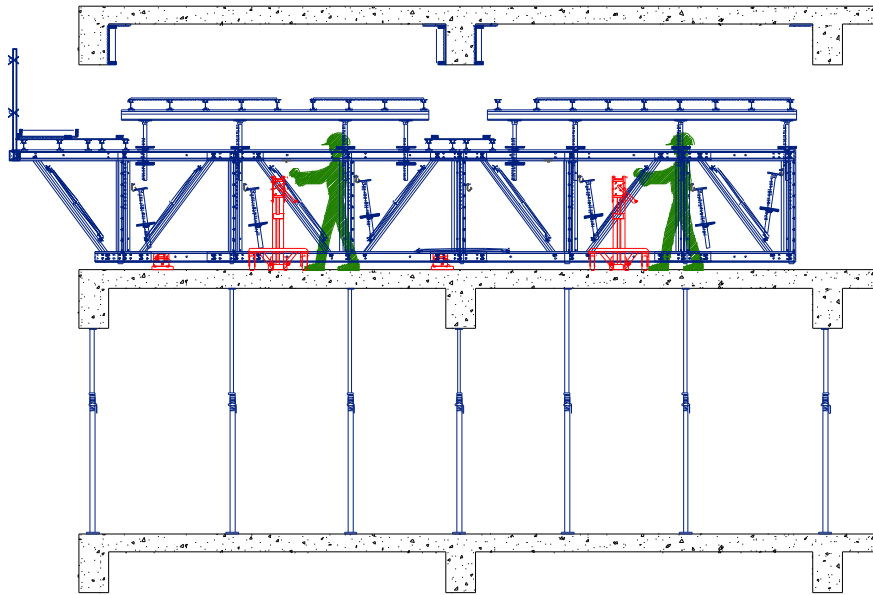
When lowering the Fly Forms more than 900mm (3ft) the lowering procedure takes two additional steps. First the Drop Leg Extension Tubes at the 1/3 way points are not fully retracted into the Vertical Struts, but extended and pinned 750mm (2-1/2ft) out from the bottom of the truss. The Screw Jacks must be removed and can be hung on the hooks for future use. Then follow the procedures in **Step 7** to lower the Fly Form, this time until the Fly Form is resting on the slab on top of the Drop Leg Extension Tubes.

STEP 9: OPTIONAL ONLY FOR LOWERING MORE THAN 900MM (3` FT)



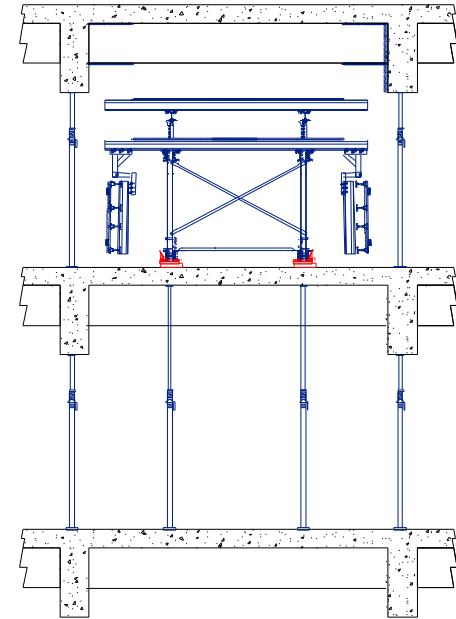
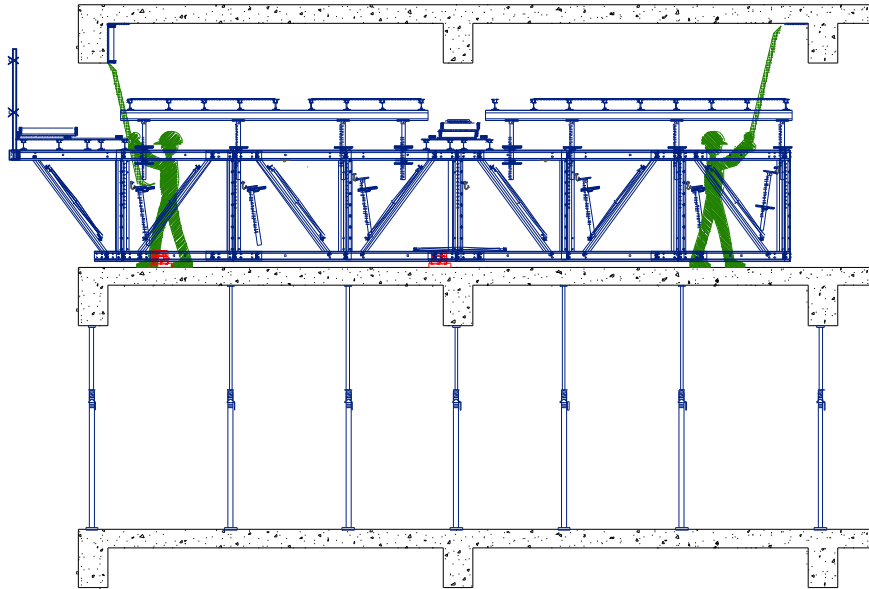
With the LJDs still in position slightly raise the Fly Form to take the load off of the Drop Leg Extension Tubes. Then remove the U-Pin securing the Drop Leg Extension Tube and lift up the Drop Leg Extension Tubes so that they are recessed above the bottom of the Lower Chord and relock them in position using the U-Pin.

STEP 10: LOWER TRUSS



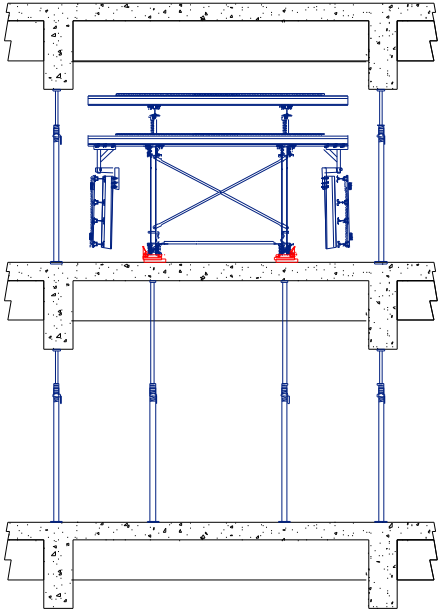
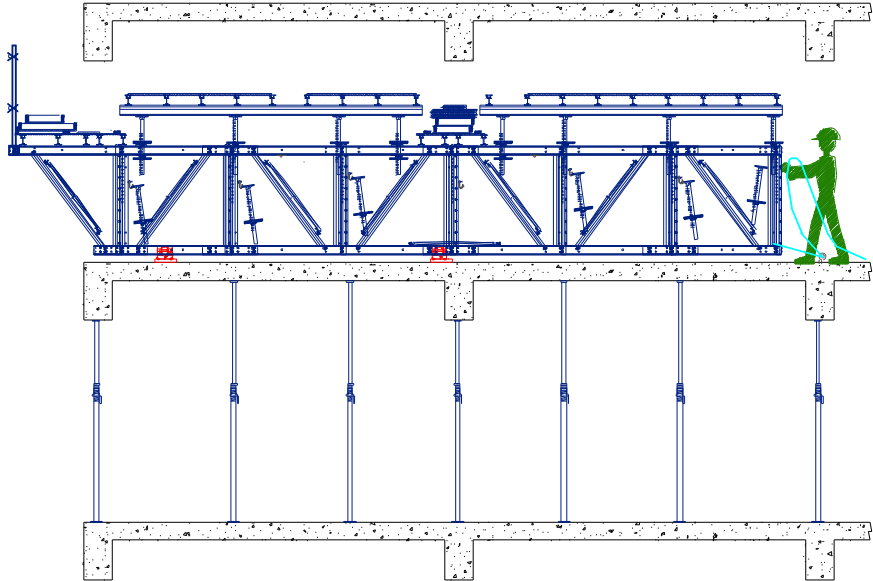
Then as a team wind down the LJDs together, keeping the Fly Form Level, until the Lower Chord rests firmly on the Rollout Rollers. The LJDs can now be moved to the next Fly Form in preparation for lowering.

STEP 11: REMOVE FILLERS



Remove the filler strips any Beam Side Forms that surround the Fly Form and nestle them between the cross braces or on top of any drop beam bottom forms and securely fasten them for flying. The filler strips should all be the same width, so they can be used on either side of the Fly Form.

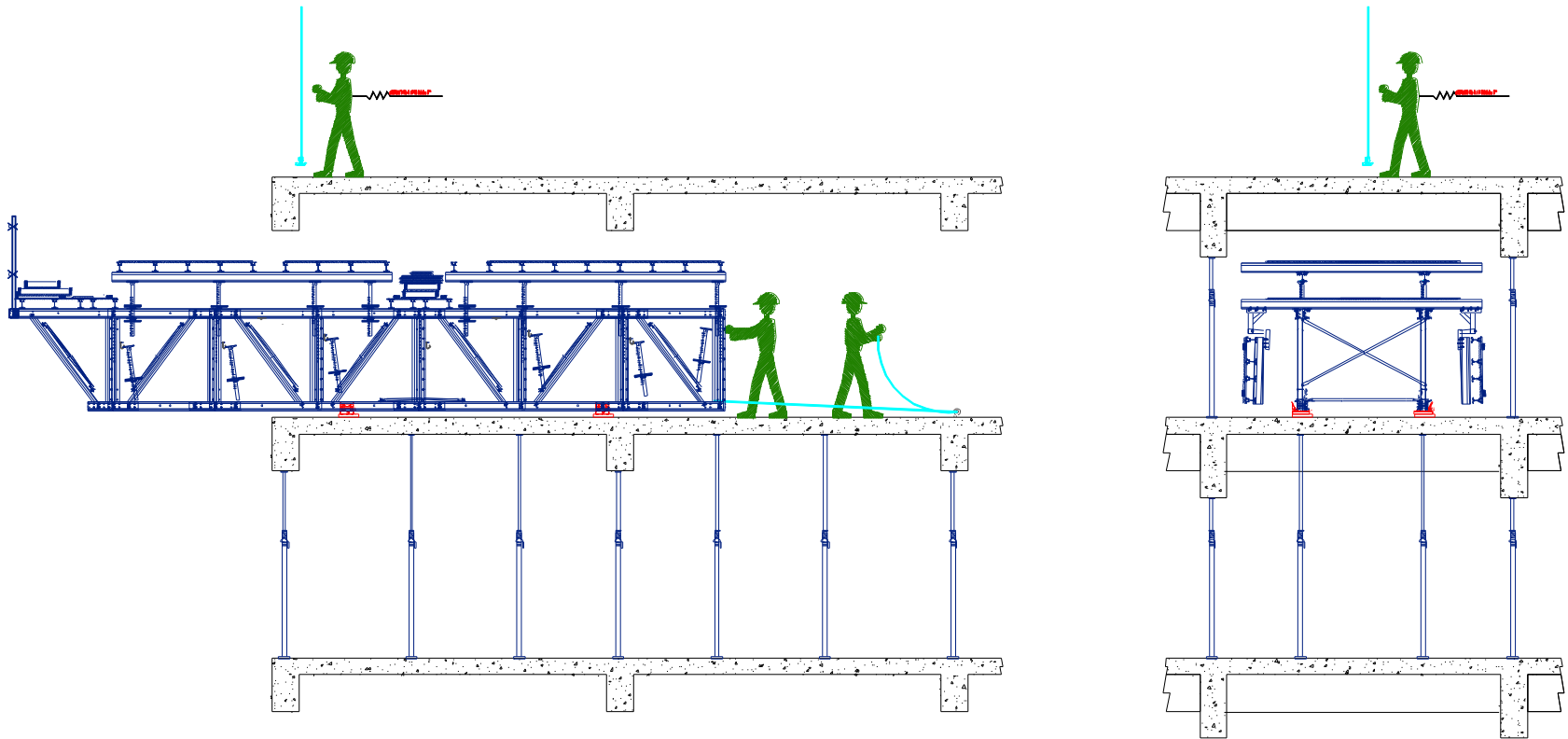
STEP 12: ATTACH SECURITY LINES



Attach two secure line to the back of the Fly Form so that the Fly Form can be securely held in place while the crane chains are attached and later to help guide the Fly Form on to the floor above. (Fly Forms will rotate in the wind when flying). The Fly Form is now ready for flying.

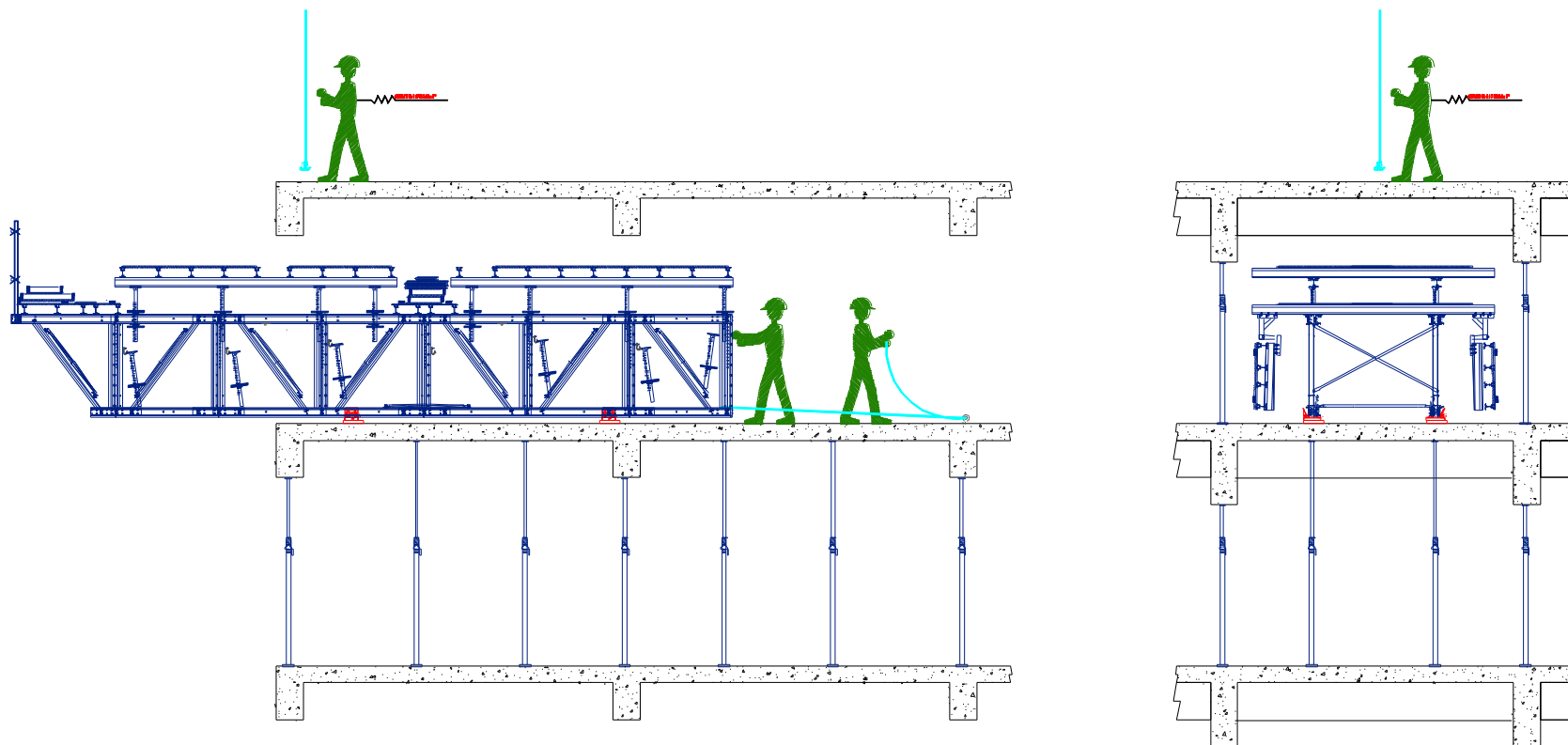


STEP 13: PUSH OUT TO FIRST PICK BRACKET



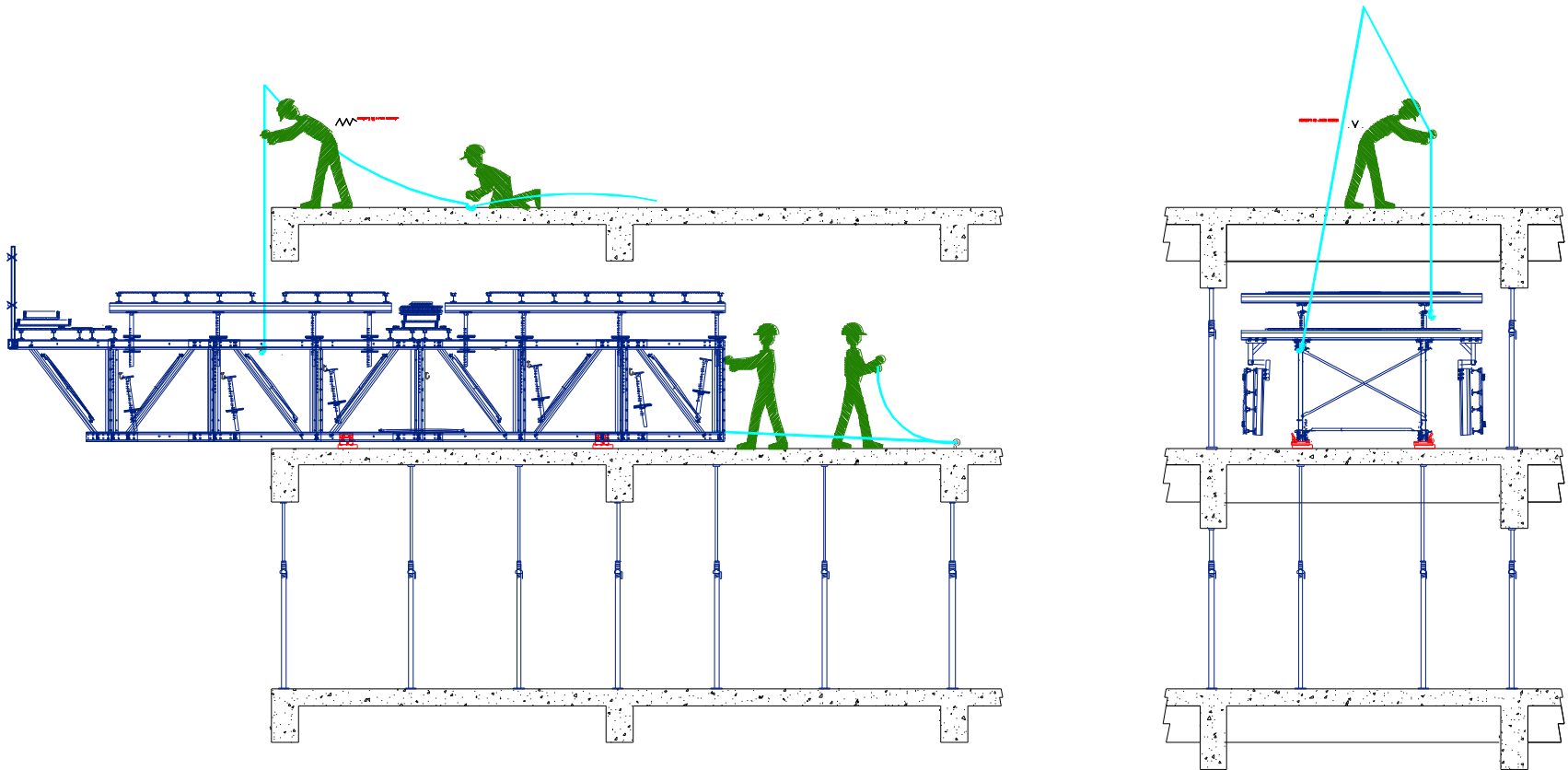
Push the form out until the first set of pick brackets are exposed from under the slab. DO NOT call for the crane until after the Fly Form is pushed out. Make sure that all workers going near the slab edge are using Safety Harnesses that are securely fasten to the building NOT TO the Fly Form.

STEP 13b:



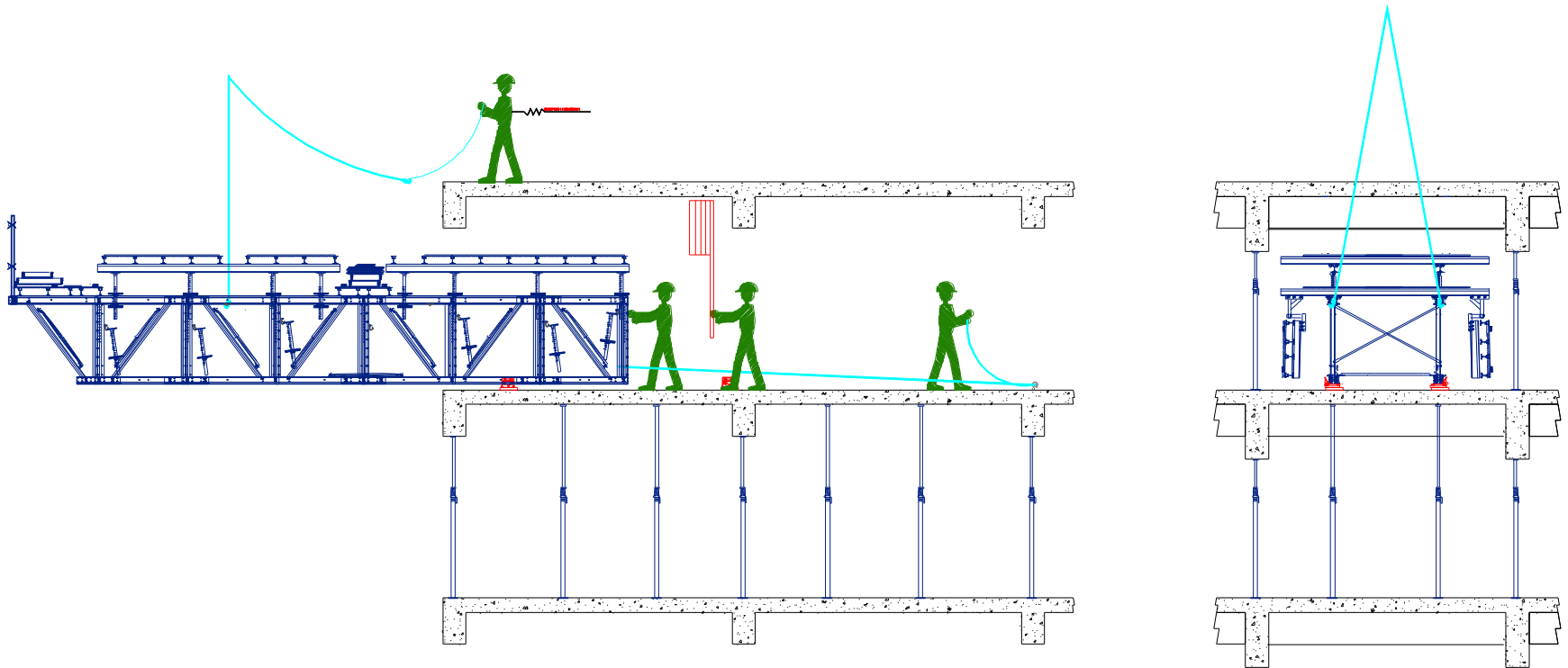
When the Fly Form is in flying position call the crane. Use standard 4 equal length crane chains, with safety hooks (Crane Straps can also be used, but they are considerably slower to use). Separate the chains, two for the front of the Fly Form and two for the back. Securely tie a rope around the back chains so that they can be retrieved later so that they can be attached to the back Pick Brackets on the Fly Form.

STEP 14: ATTACH FRONT CRANE CHAINS



Attach two crane chains to the first two pick brackets. Attach a line to the remaining two crane chains so that they can be safely retrieved and attached to the rear Pick Brackets

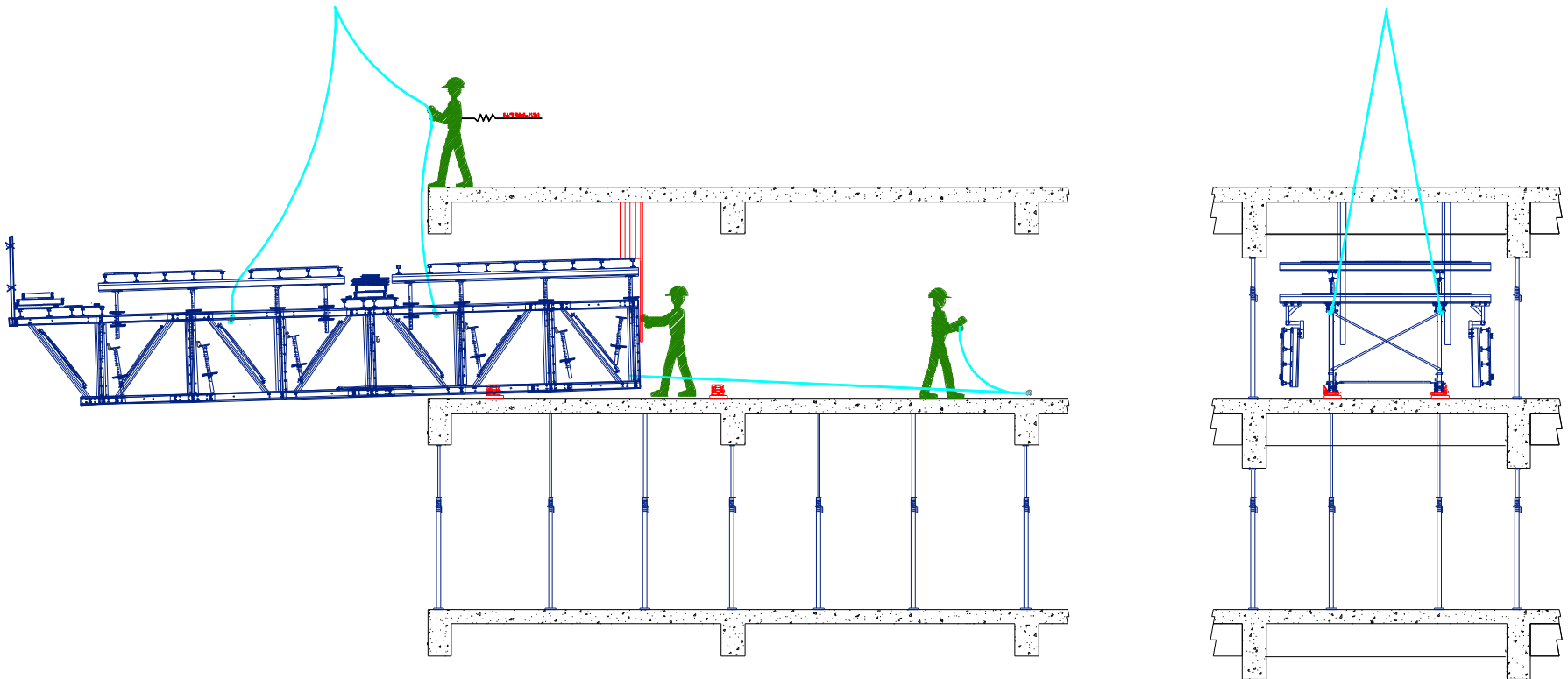
STEP 15: WITH CRANE EXPOSE REAR PICK BRACKETS



Have the crane take the weight of the outside end of the form and roll out the Fly Form until the last set of pick brackets are exposed. All the while keep the back lines securely fastened to a column, wall or other anchor location as a precaution against the Fly Form being blown out before everything is secure.

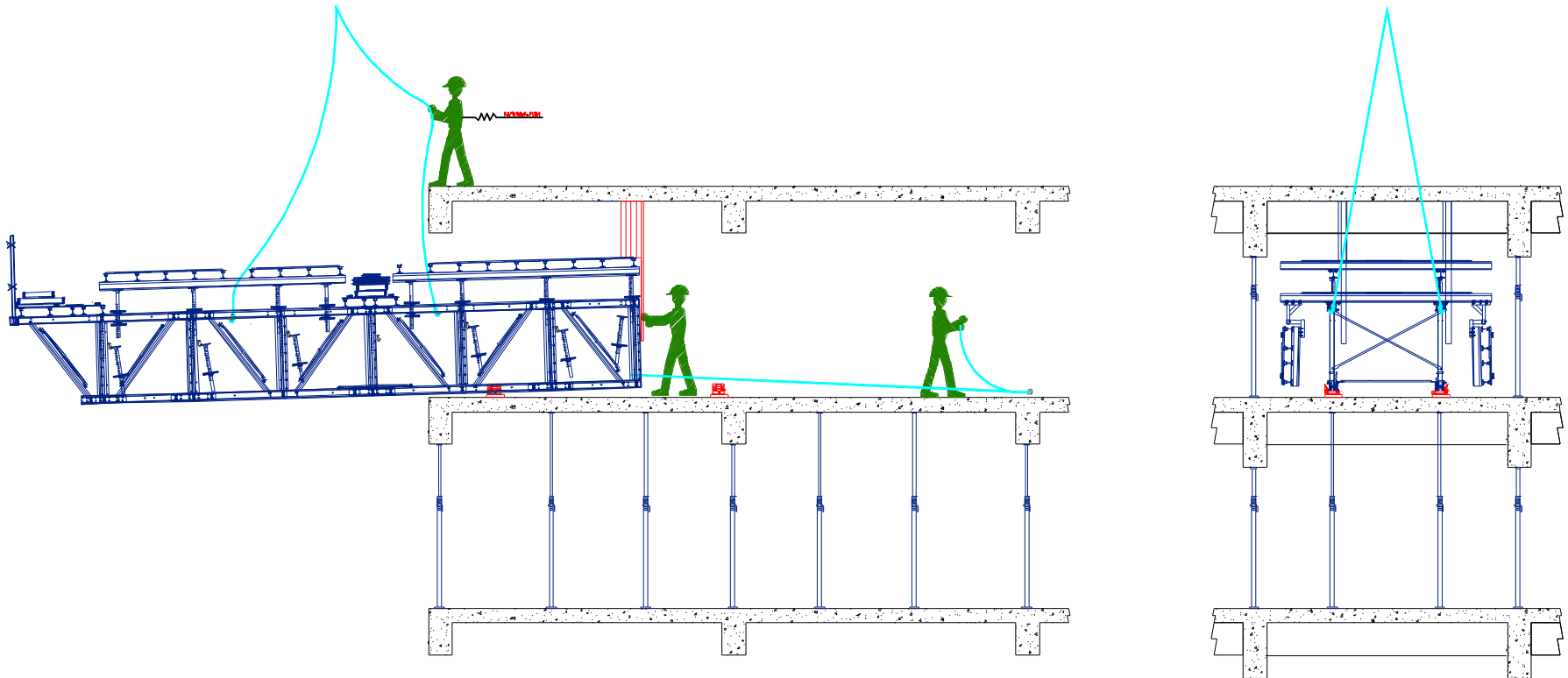
Note: Never roll out any form further than necessary, for safer hooking, flying and less strain on the slab edge and form.

STEP 16: BACK BLOCKING



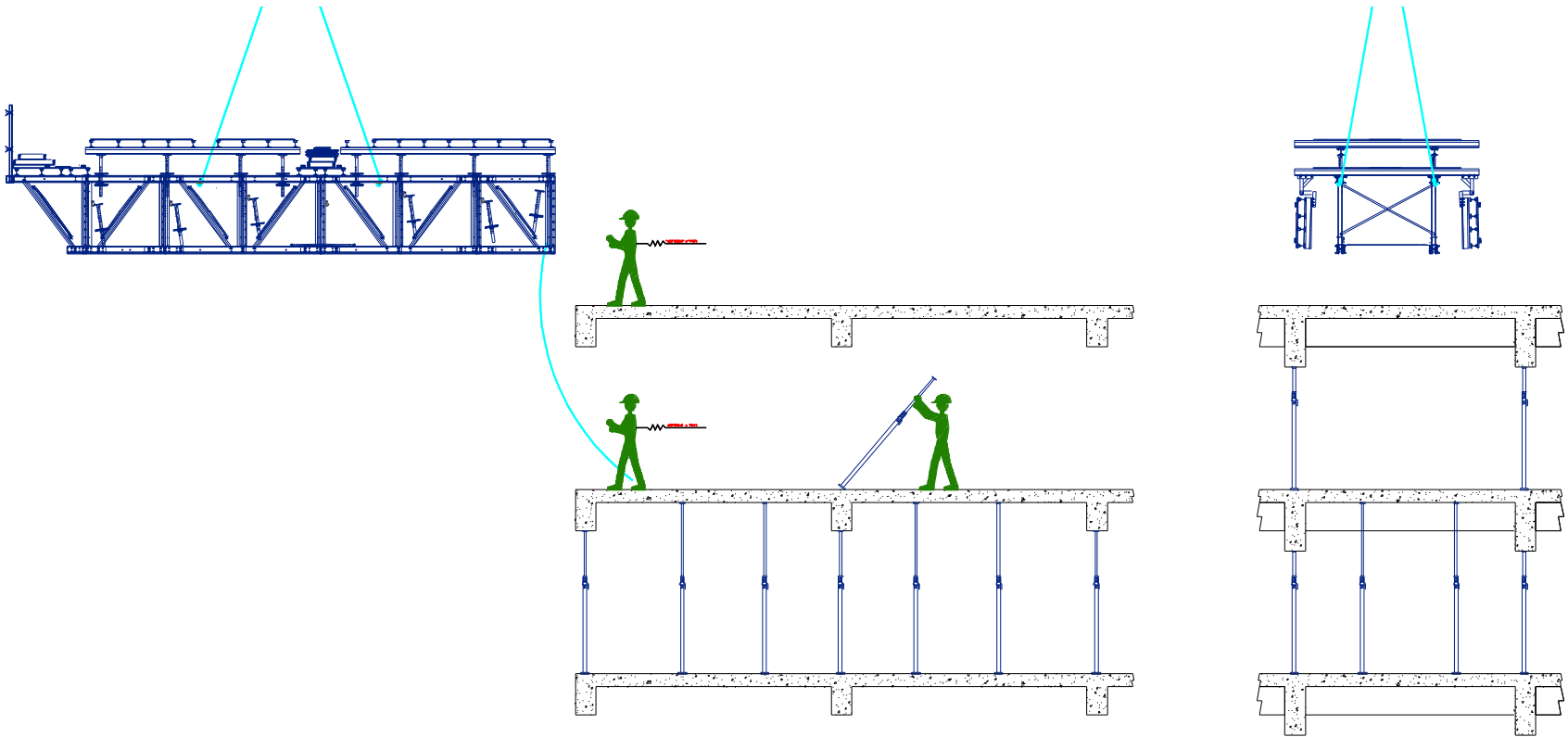
Prepare two or more Back Blocking Holders to wedge between the top of the Fly Form and the underside of the Slab. These are extremely important to prevent the Fly Form from tipping forward, and possibly slipping out of the building. Wedge the Back Blocking Holders in place then slowly lower the front crane chains. Again while keep the back lines securely fastened to a column, wall or other anchor location. Use the rope that is securely fastened to the rear crane chains and pull them in, and attach the chains to the rear pick brackets.

STEP 16b: LOWER ONTO REAR BLOCKING



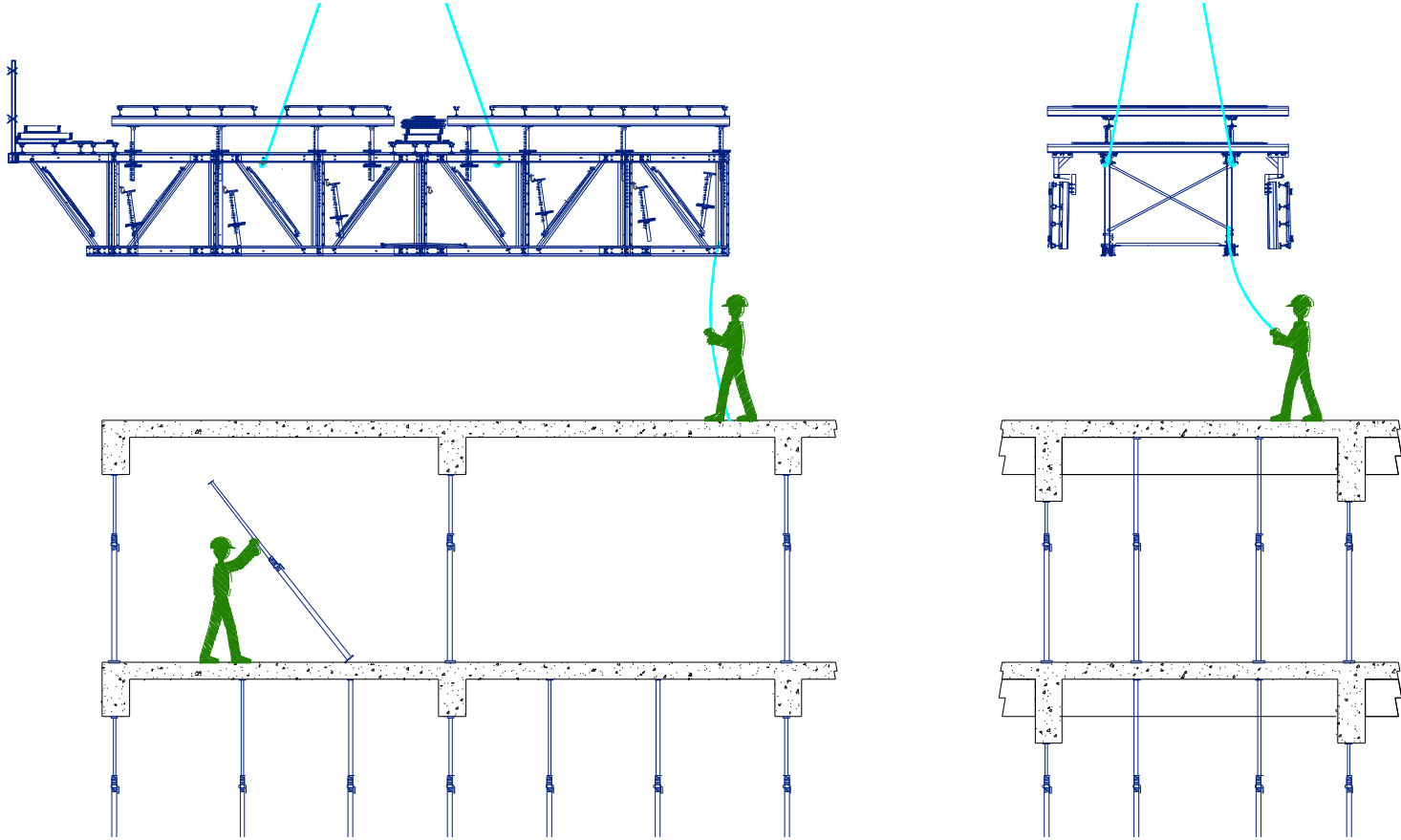
Centre the crane between the pick brackets and raise the chains until the Fly Form is level. Slowly take the weight of the Fly Form, this will release the pressure on the Back Blocking Holders, which can now be removed. When everything is good, let go of the back lines and push the Fly Form all the way out of the building.

STEP 17: FLY TRUSS



Pass the Lead Ropes to the floor above (If possible) otherwise make sure that they are safely out of the building and not entangled with anything.

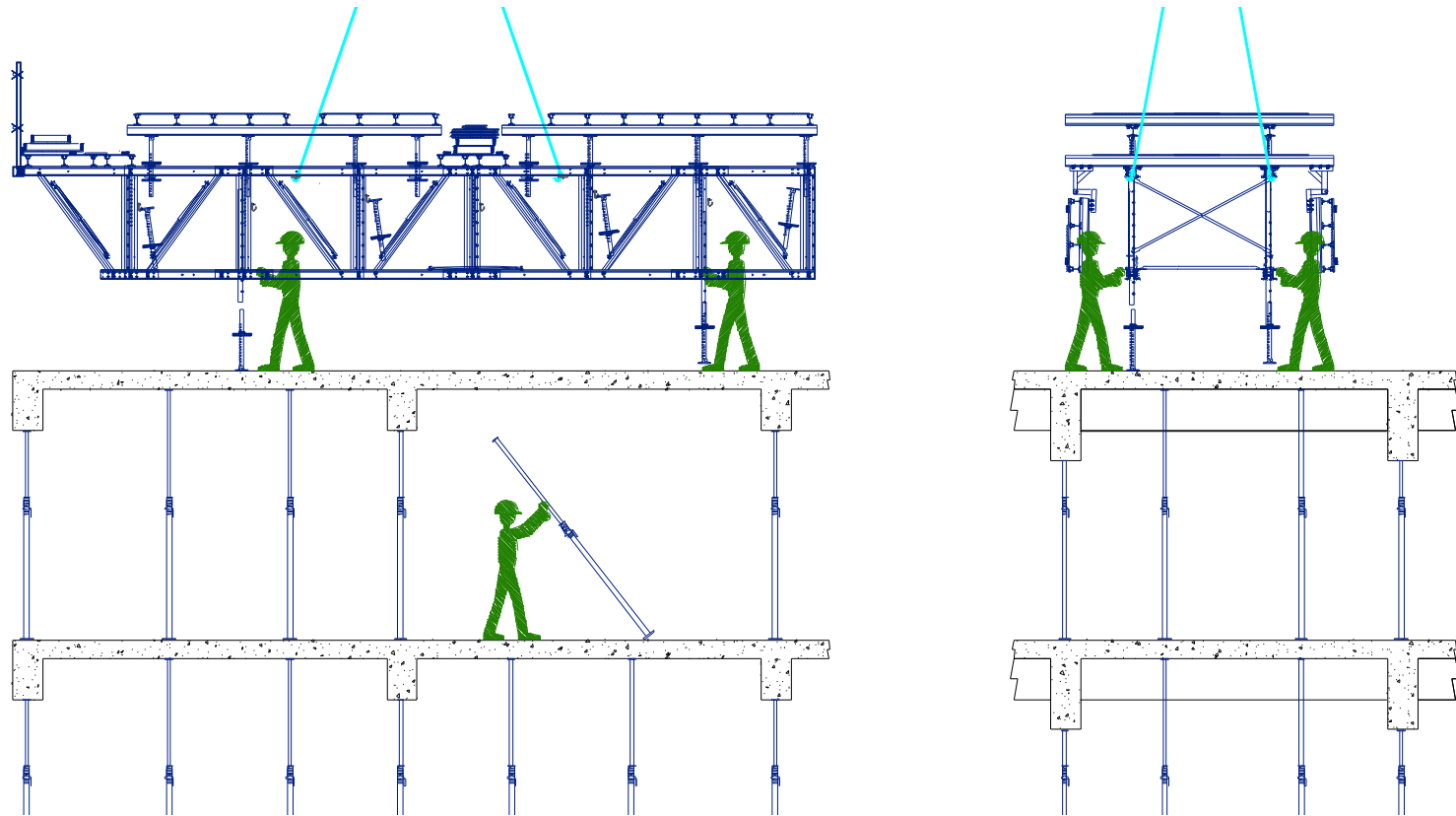
STEP 18: LAND TRUSS



Guide the Fly Form into the approximate position on the floor above. It is not important to get the Fly Form into the exact location. It is more important to get the crane released as fast as possible.

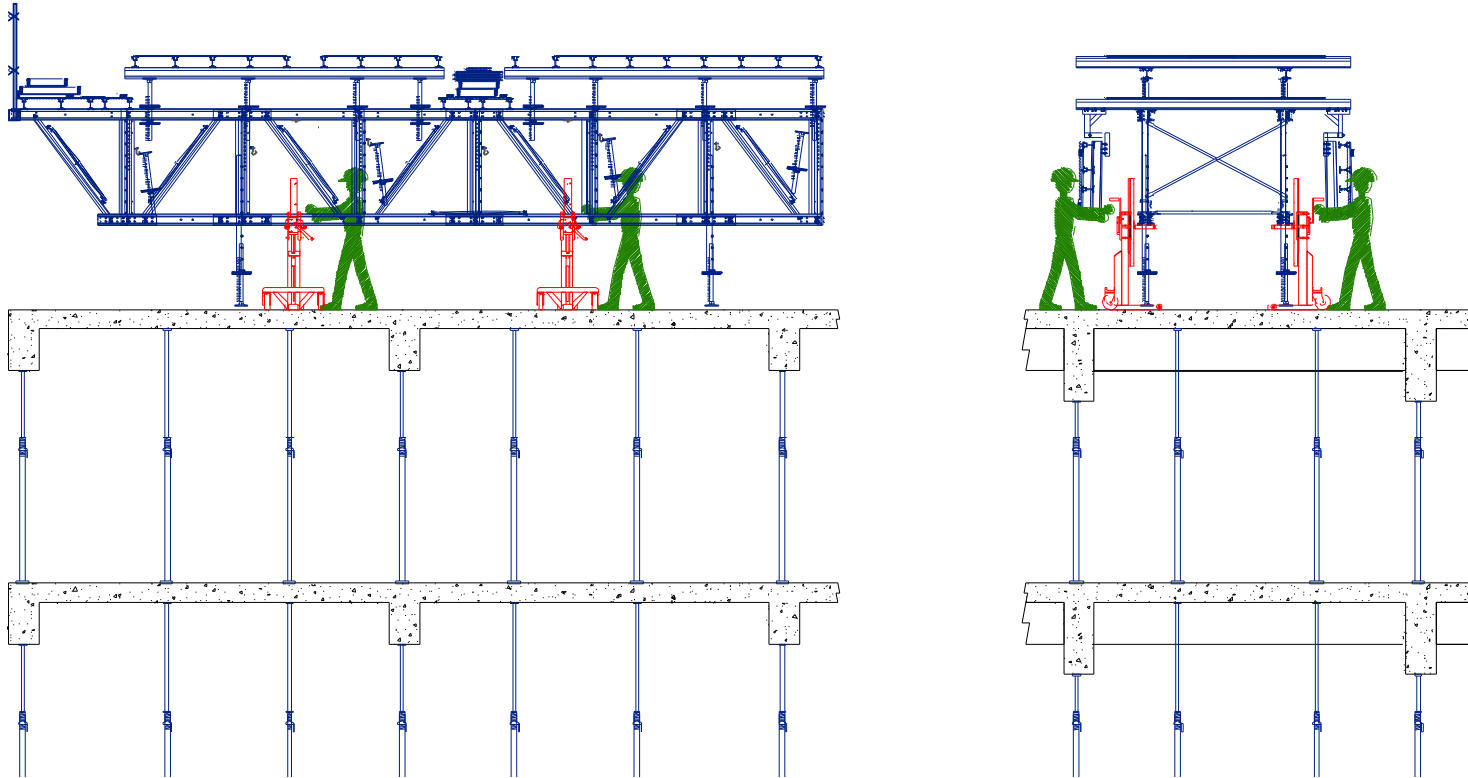


STEP 19a: POSITIONING WITH LOWERING JACK DOLLIES



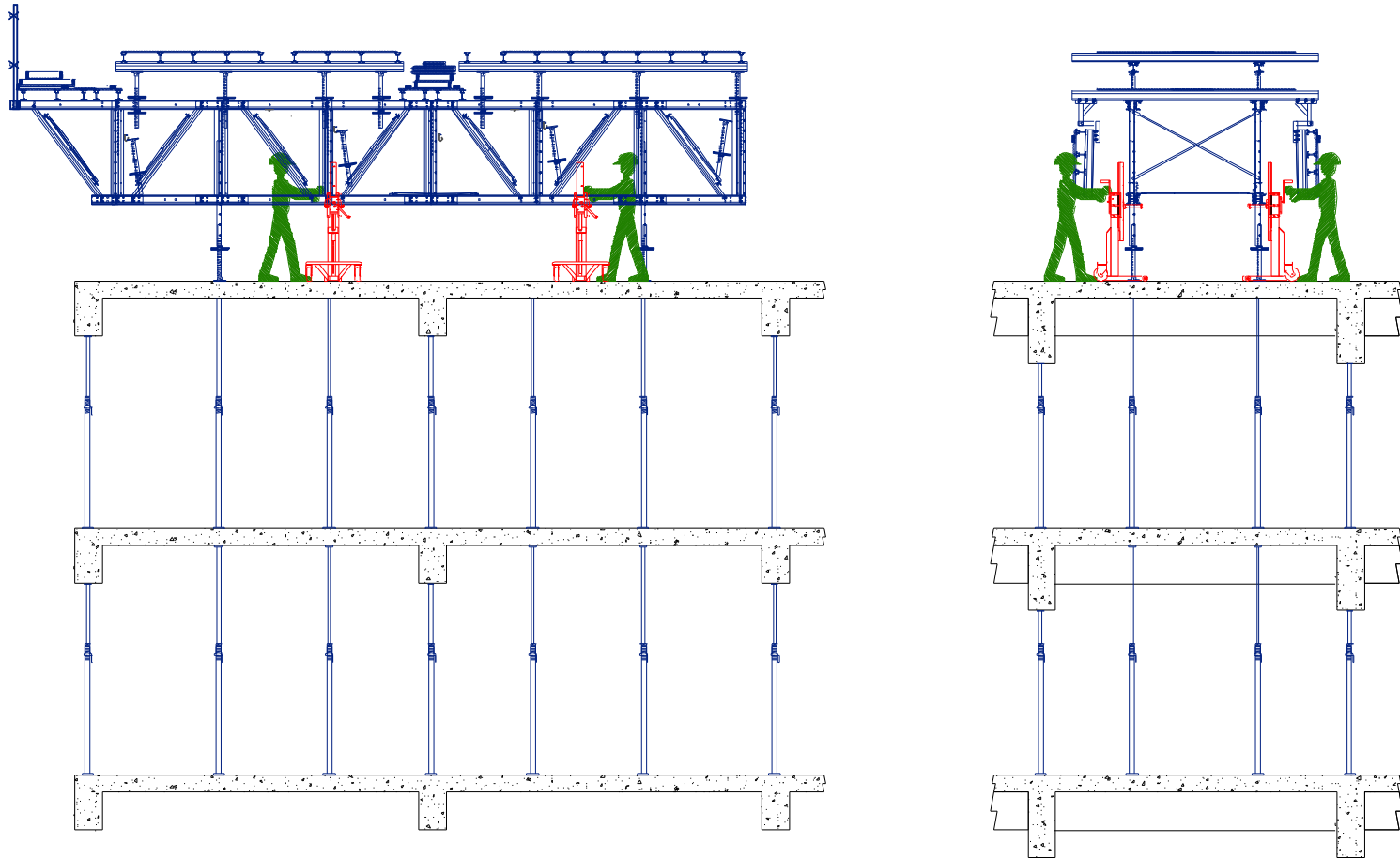
Unhook 2 Screw Jacks per Truss and insert them into the Drop Leg Extension Tubes. Then remove the U-Pins and extended the Drop Leg Extension Tubes to the correct length and re-insert the U-Pins back through the Vertical Struts into the Drop Leg Extension Tubes. After they are all secure, lower the Fly Form onto the slab and release the crane. Once again, do not worry about the positioning of the Fly Form. This can easily be done without wasting valuable crane time.

STEP 20a: POSITIONING WITH LOWERING JACK DOLLIES



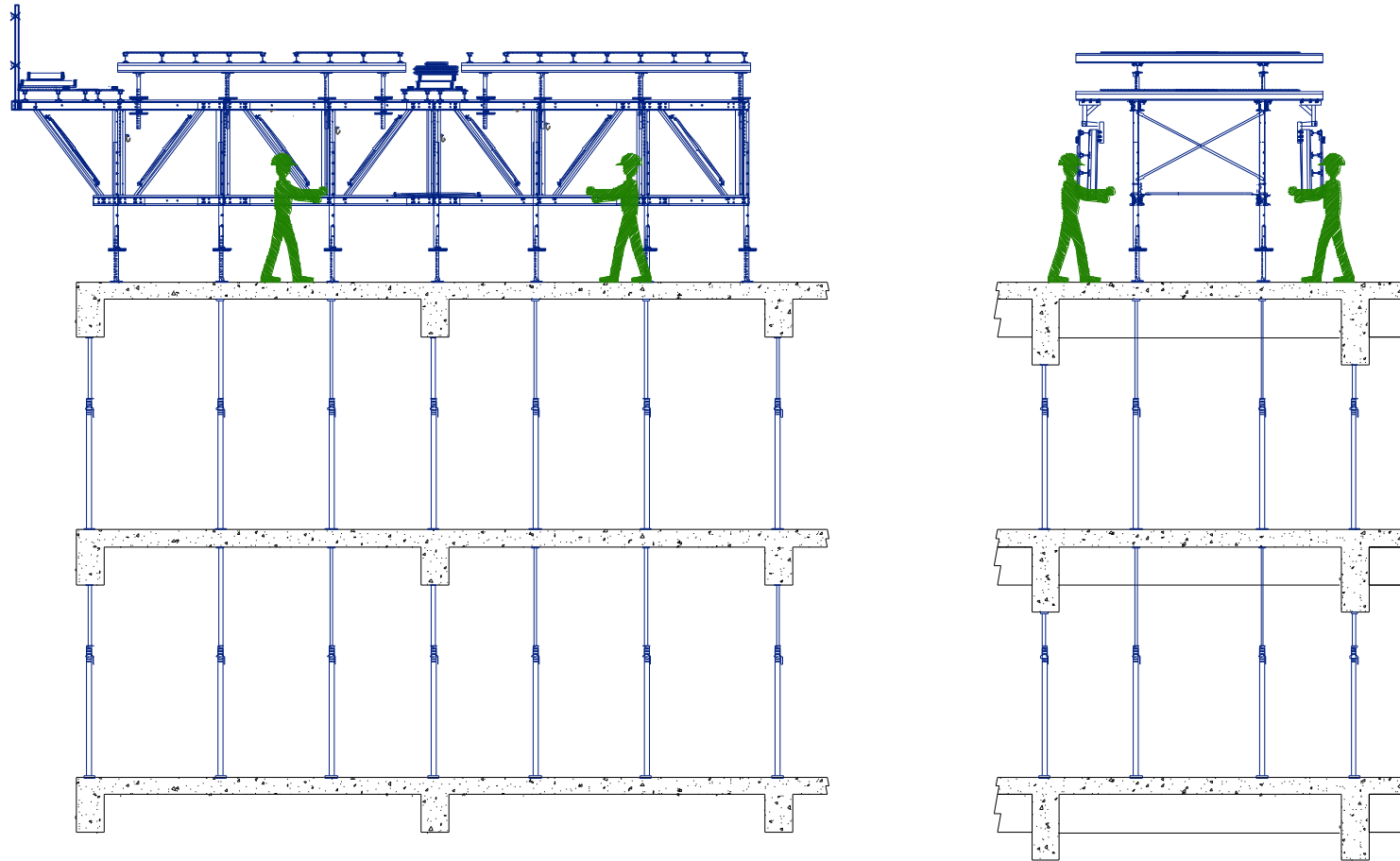
In this step, the Lowering Jack Dollies (LJD)s are going to be use to position and level the Fly Form. Place 2 LJDs under the Lower Chord of each Truss close to the 1/3 way points but not so that they will interfere with any of the vertical struts. Wind up the Jack so that the Lifting Strap is resting tight against the Lower Chords. Raise each LJD so that the Screw Jacks are approximately 25mm (1in) off of the slab. Now the Fly Form can be safely positioned to the exact location. With the Drop Leg Extension Tubes and Screw Jacks down, the Fly Form cannot Tip over, even if one of the LJD hits something on the slab.

STEP 21a: POSITIONING WITH LOWERING JACK DOLLIES



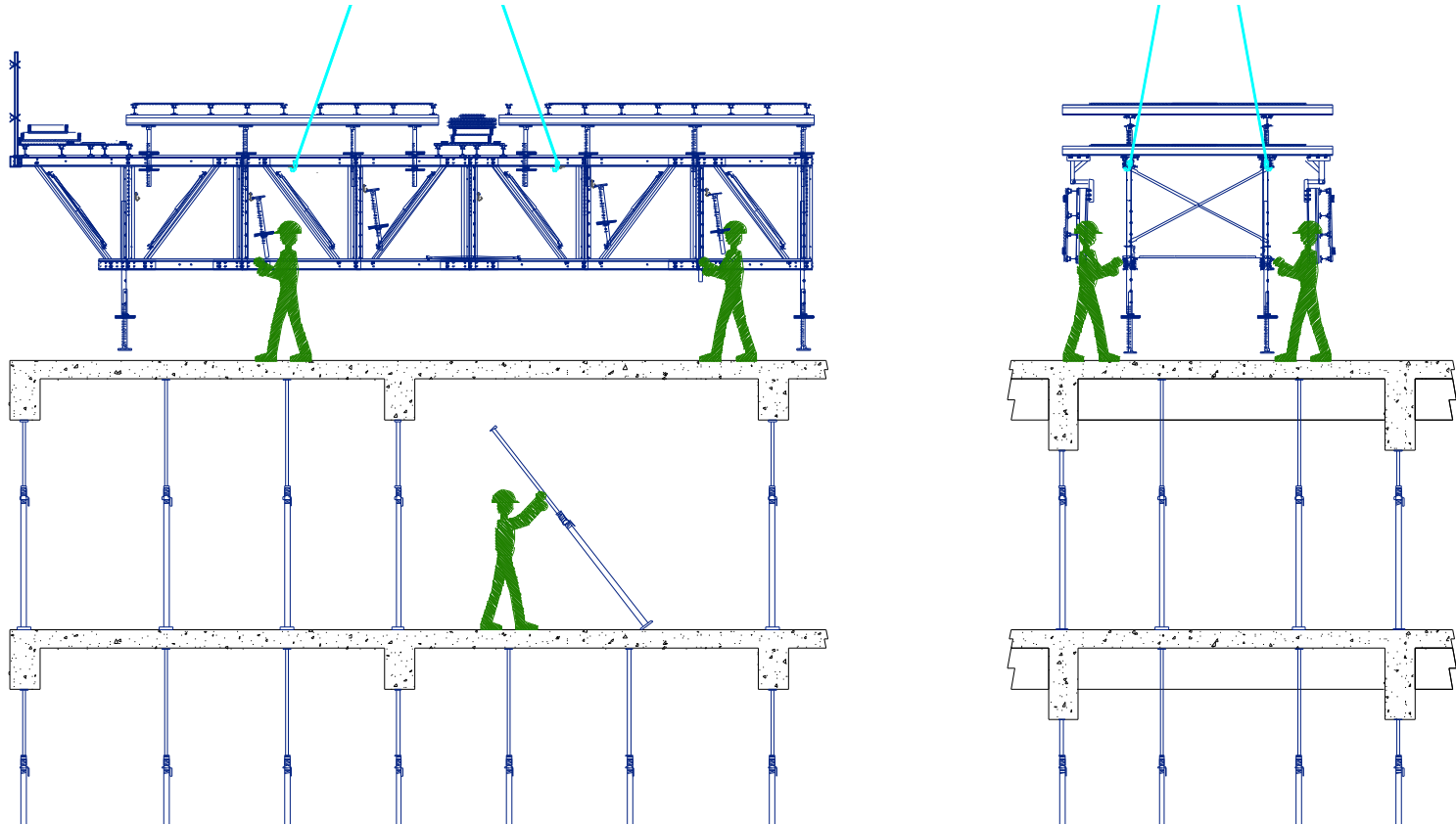
With the Fly Form now in the exact location, level the Fly Form either by raising or lowering the Lowering Jack Dollies or by setting the screw jacks approximately 10to25mm (1/2 to 1in) high, and lowering the screw jacks to level the truss. (This way would allow the Lowering Jack Dollies to position the next Fly Form.)

STEP 22a: POSITIONING WITH LOWERING JACK DOLLIES



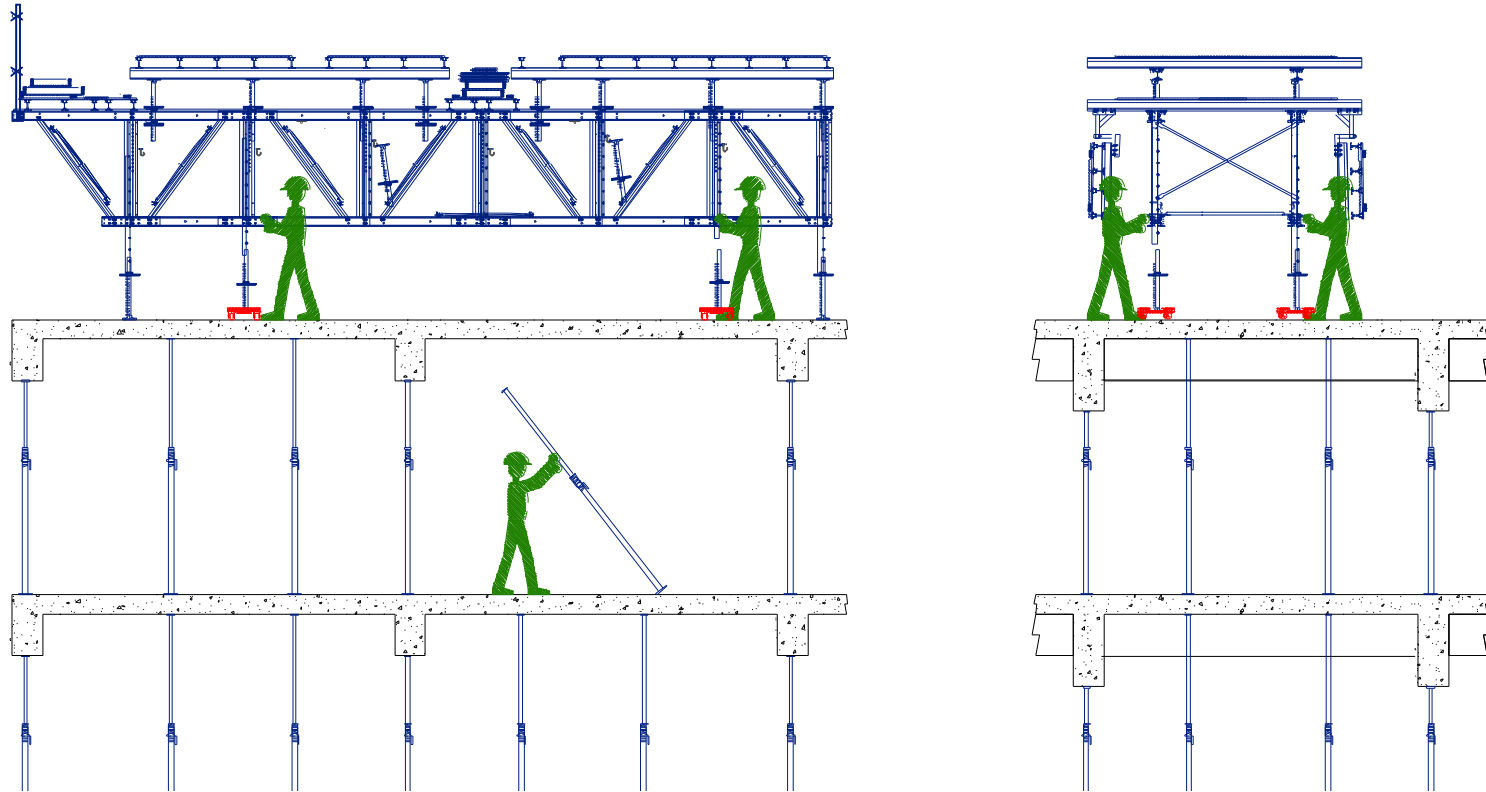
Lower the remaining Drop Leg Extension Tubes and Screw Jacks, reinstall the Pick Pockets, Beam Sides and Filler Strips.

STEP 19b: POSITIONING WITH SCREW JACK MOVING DOLLIES



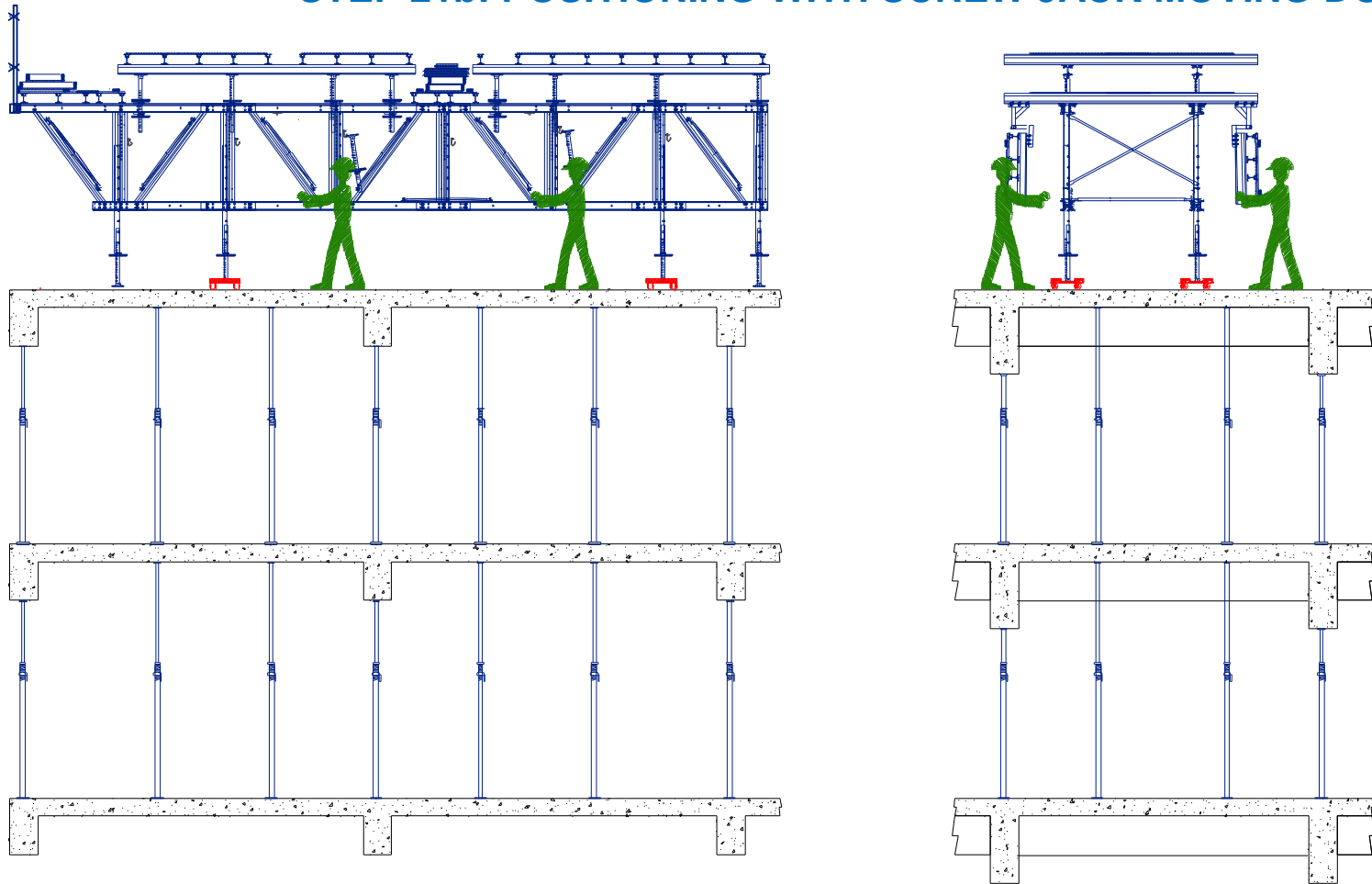
Unhook 2 Screw Jacks per Truss and insert them into the Drop Leg Extension Tubes. Then remove the U-Pins and extended the Drop Leg Extension Tubes to the correct length and re-insert the U-Pins back through the Vertical Struts into the Drop Leg Extension Tubes. After they are all secure, lower the Fly Form onto the slab and release the crane. Once again, do not worry about the positioning of the Fly Form. This can easily be done without wasting valuable crane time.

STEP 20b: POSITIONING WITH SCREW JACK MOVING DOLLIES



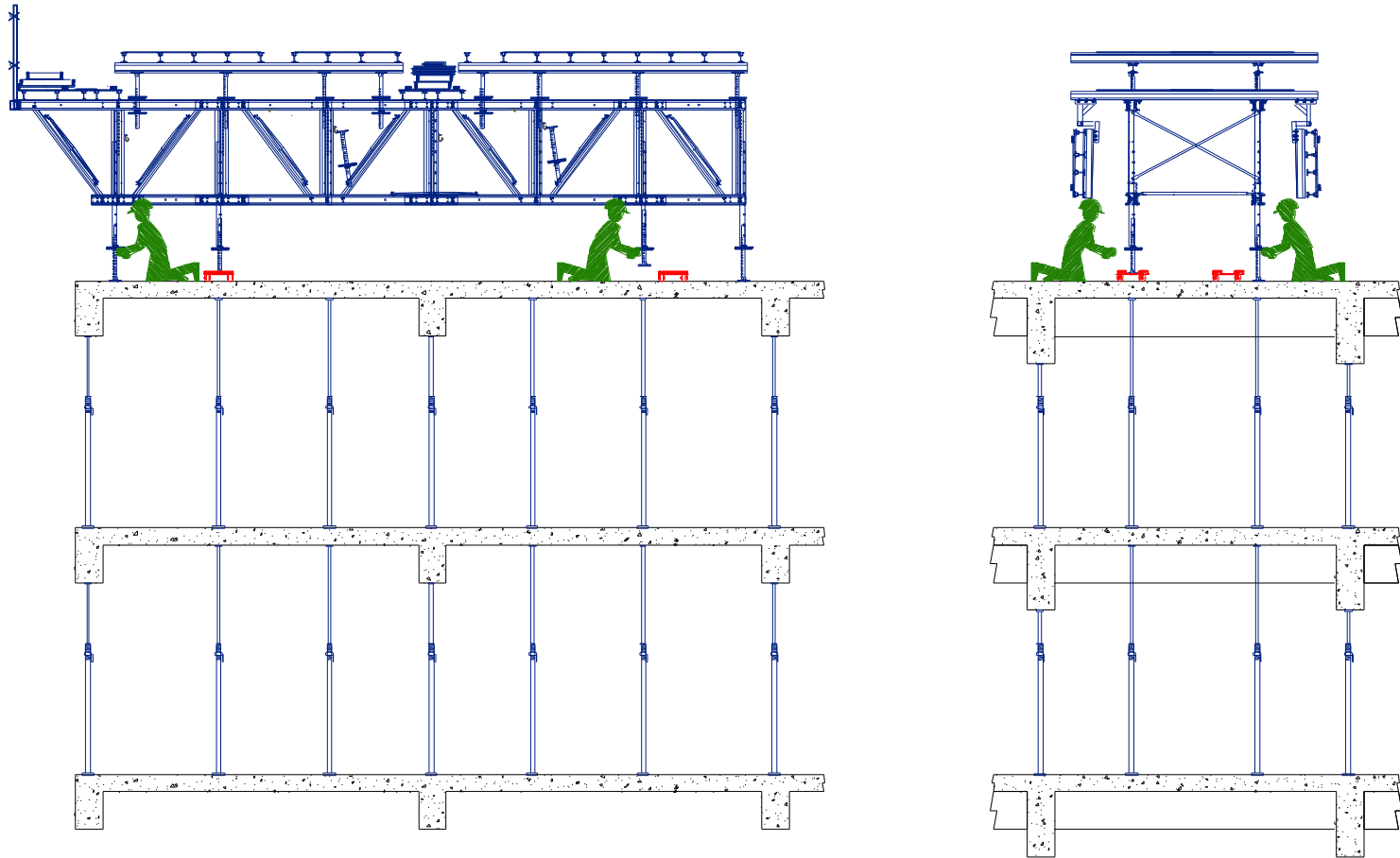
In this step, the Screw Jack Moving Dollies (SJMD)s are going to be used to position the Fly Form. Place 2 SJMDs under the Screw Jacks of each Truss close to the 1/3 way points. Raise the Screw Jacks so that they are approximately 25mm (1in) off of the slab. Now the Fly Form can be safely positioned to the exact location. With the Drop Leg Extension Tubes and Screw Jacks down, the Fly Form cannot Tip over, even if one of the SJMD hits something on the slab.

STEP 21b: POSITIONING WITH SCREW JACK MOVING DOLLIES



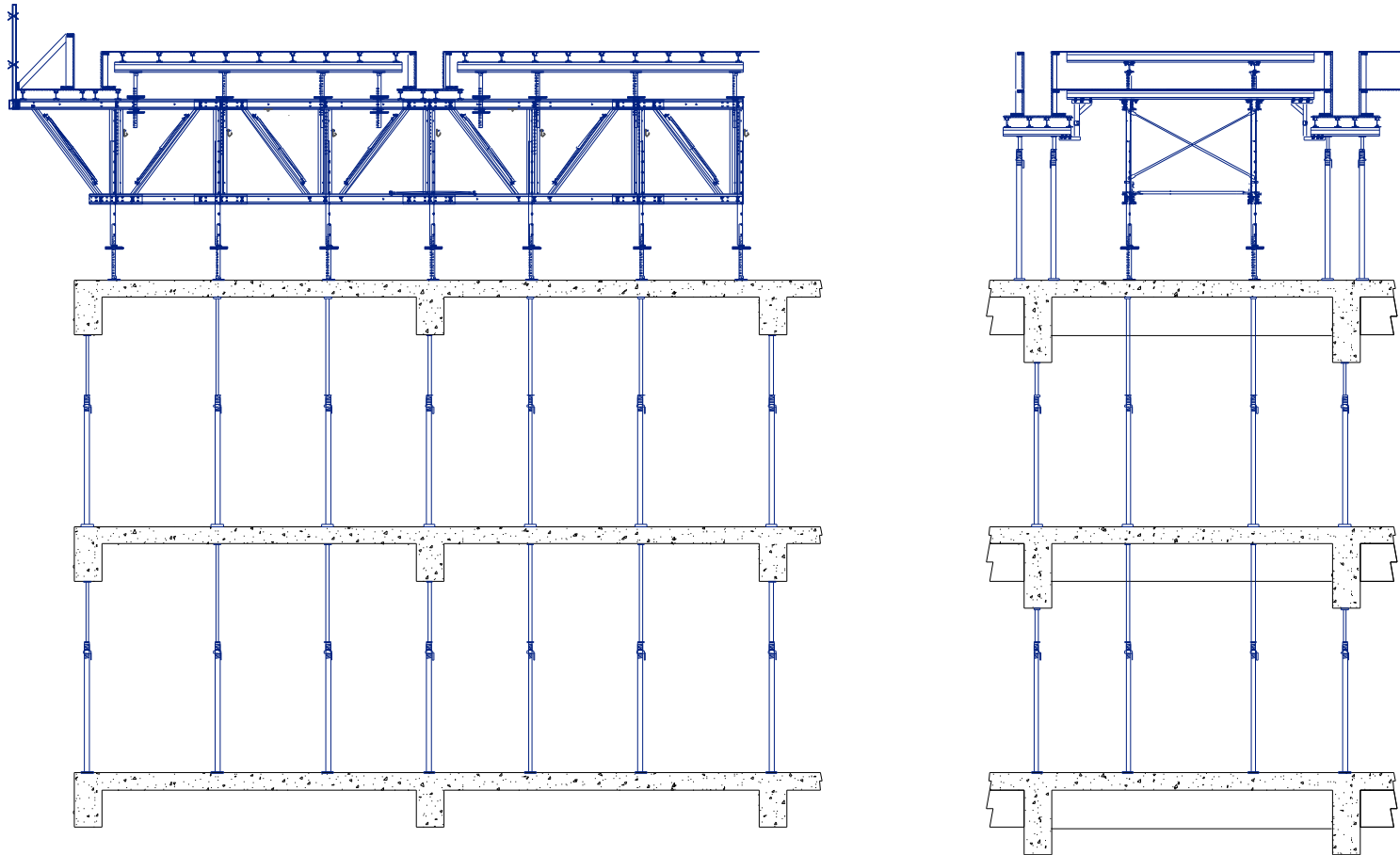
With the Fly Form now in the exact location, lower the outside Extension Tubes and Screw Jacks, raise the Screw Jacks on top of the Screw Jack Moving Dollies then remove the Dollies. Then level the Fly Form with the Screw Jacks.

STEP 22b: POSITIONING WITH SCREW JACK MOVING DOLLIES



Lower the remaining Drop Leg Extension Tubes and Screw Jacks, reinstall the Pick Pockets, Beam Sides and Filler Strips.

NEXT FLOOR POURING POSITION



Follow the same procedures on the next form. Once a routine is established many hours of crane and labor time will be saved.



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