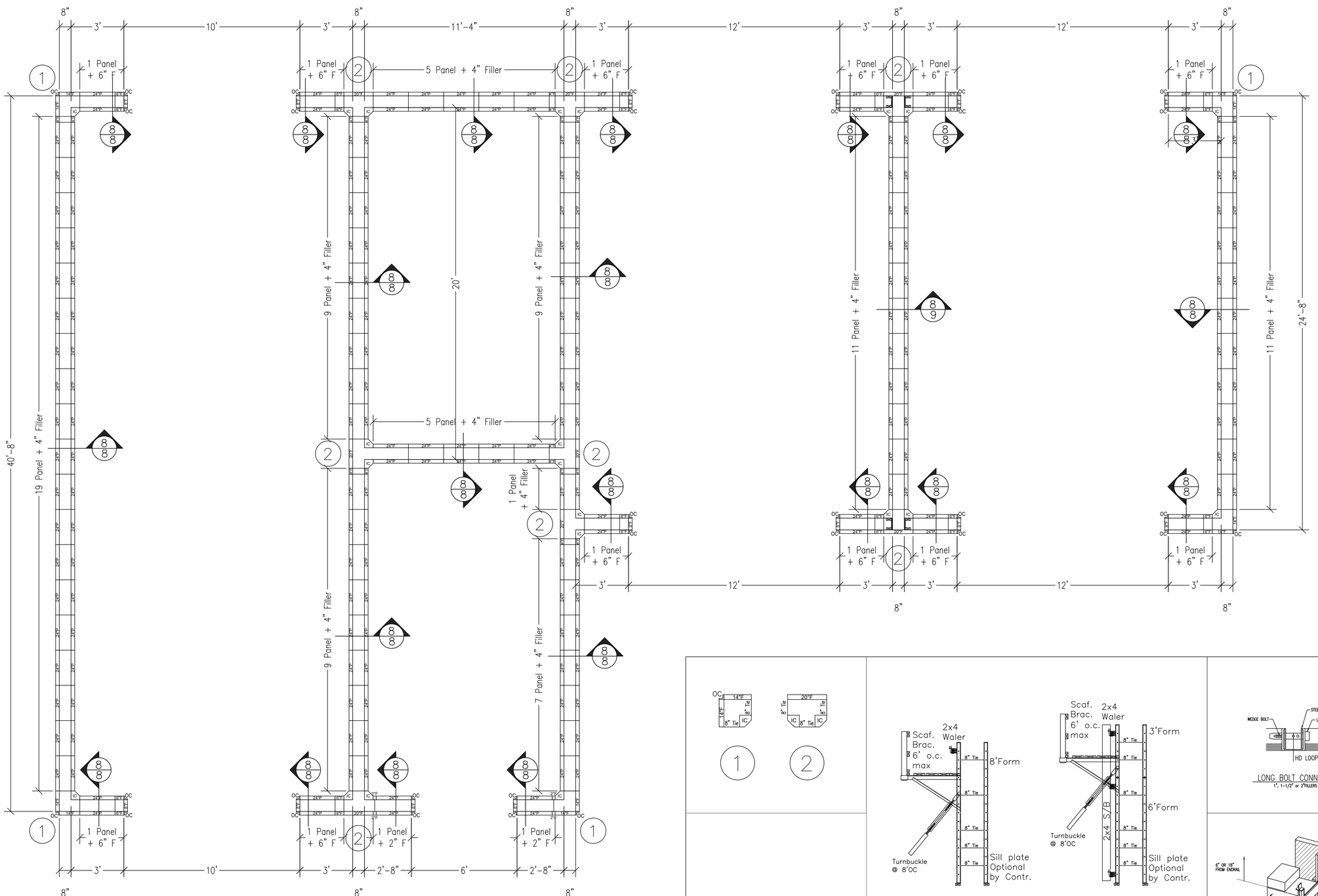
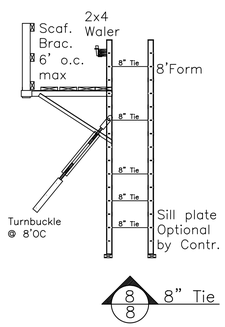
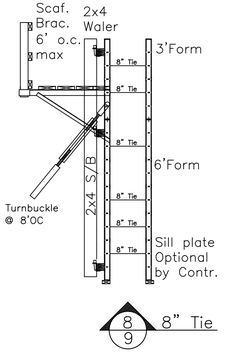
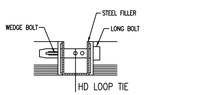


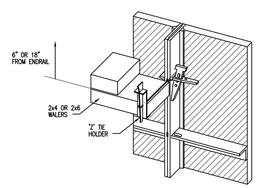
1 2







LONG BOLT CONNECTION
1", 1-1/2" or 2"FILLERS



GENERAL NOTES:

A. Desuta Concrete Forms (DCF) has prepared these drawings based on information provided to DCF by its customer. These drawings are intended to illustrate a proper manner for the erection and use of the goods shown on these drawings, based on the information supplied by the customer as to the intended use of these goods.

B. DCF makes no warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose.

C. The customer and not DCF, has the responsibility for the actual use of the drawings and the erection and use of the goods; for the checking of accuracy of field details and dimensions; for identifying and complying with all state and local laws, ordinances and codes; and for reviewing scaffolding, shoring and forming institute.

D. DCF shall have no responsibility for any the above matters. DCF shall have no liability for loss, liability or expense incurred by the customer for personal injury, property damage, or economic injury (including consequential damages) incurred by the customer arising out of or caused by any defect in the drawings or the goods.

E. DCF's only responsibility in the event of a defect is to repair or replace the defective drawings or goods.

FORMWORK DESIGN NOTES:

A. Wale & brace all formwork joints that are not tied.
B. Job built fillers and/or bulkheads, along with all job built formwork, are the customers design and construction responsibility.
C. Inspect completed formwork before pouring to assure proper placement and secure connections of ties, wedge bolts and other associated hardware.
D. Do not attach scaffold brackets to forms without proper consideration and prevention of overturning tendency. Customer to erect guard rails, planks, and toe boards to local codes.
E. Connect forms with wedge bolts 6" from each corner of each form and at every crossmember 12" o.c. when forming columns, gangs, and corners.
F. Do not weld or bend, or otherwise alter ties or other accessories as is may seriously reduce their strength. Do not try to force position of forms or ties by striking or hammering on ends of wire ties.
G. Lift handles and intercostal rods are to be used to manually transport forms or as an integral structure member. They are not to be used as a support or for any other purpose. They are not to be used as hand holds, man supports in climbing, or safety sling attachments.
H. Braces are shown for alignment and plumbing only. They are not intended to restrict concrete pressures or wind loading and should be considered inadequate for these purposes.
I. For safety guidelines, refer to SSFI publication 401 Guide to Safety Procedures for Vertical Concrete Formwork.

FORMWORK PRESSURE

This drawing is based on a maximum allowable concrete pressure of 1000 P.S.F. per A.C.I. committee 347-04 pressure formulas for rate of pour at indicated temperature.
It is the contactor responsibility to adjust the pour rates and placement procedures to comply with the above noted pressure.

PRESSURE FORMULAS

Rate less than 7 ft/hr, Wall height <14' : P = CwCc[150 + 9000R/T]
Rate 7 ft/hr to 15 ft/hr or less than 7ft/hr with wall height >14':
P = CwCc[150 + 43400/T + 2800 R/T]
NOTE: Max. pressure not to exceed wh, min. allow pressure is 600 Cw.
Do not use pressures in excess of wh.

LIST OF PRESSURE INCREASES

Multiply value from pressure chart by unit weight and chemistry coefficients to obtain pressure for design of wall forms.

UNIT WEIGHT COEFFICIENT, Cw

Concrete weighing less than 140 pcf	Cw = 0.5 (1 + w/145) but not less than 0.80
Concrete weighing 140 to 150 pcf	Cw = 1.0
Concrete weighing more than 150 pcf	Cw = w/145

CHEMISTRY COEFFICIENT, Cc

Types I, II and III Cement without retarders*	1.0
Types I, II and III Cement with a retarder*	1.2
Other types or blends without retarders containing less than 70% slag or less than 40% fly ash	1.2
Other types or blends with retarders containing less than 70% slag or less than 40% fly ash	1.4
Blends containing more than 70% slag or 40% fly ash	1.4

*Retarders include any admixtures such as retarders, retarding water reducers, or retarding midrange or high-range water-reducing admixtures that delay the setting of concrete.

FORMWORK TIES

THE SAFE LOAD CAPACITY * OF THE TIES USED IN THIS LAYOUT IS 3K# UNLESS NOTED OTHERWISE.

* (2:1 SAFETY FACTOR)

LEGEND

BLB = BRICK LEDGE BRACKET
BLK = BULKHEAD (BY CONTRACTOR)
BO = BOX OUT (BY CONTRACTOR)
BP = BRACE PLATE
BT = BASE TIE
BTB = BASE TIE BOLT
C/C = CENTER TO CENTER
CC = CULVERT CORNER
CHC = COLUMN HINGED CORNER
DBL = DOUBLE
F = FILLER (1" TO 22")
FA = FILLER ANGLE
FIF = FORM IN FIELD (BY CONTRACTOR)
FS = FOOTING STEP
GFT = STANDARD GANG FORM LOOP TIE
H = HORIZONTAL
HD = HEAVY DUTY (TIES)
IBC = INSIDE BAY CORNER (6" FACE)
IC = INSIDE CORNER (6" FACE)
IHC = INSIDE HINGE CORNER (6"x6" FACE)
JBF = JOB BUILT FILLER
LB = LONG BOLT
OBC = OUTSIDE BAY CORNER (6" FACE)
OC = OUTSIDE CORNER
OHC = OUTSIDE HINGE CORNER
P = PANEL (24" WIDE)
PF = PILASTER FORM
SB = STRONGBACK (DOUBLE 2X4)
SCB = SCAFFOLD BRACKET (500#) @ 8'-0" C/C
SIM = SIMILAR
SW = S-WEDGE
T = STANDARD LOOP TIE
TB = TURNBUCKLE BRACE (ALIGNMENT ONLY) @ 8'-0" C/C
TOC = TOP OF CONCRETE
TYP = TYPICAL
UNO = UNLESS NOTED OTHERWISE
V = VERTICAL
W = WALER (DOUBLE 2X4)
WB = WEDGE BOLT
WB@ = WALE & BRACE

☒ PRELIMINARY FOR QUOTATION PURPOSES ONLY

☐ PRELIMINARY FOR APPROVAL BY CUSTOMER

☐ WORKING DRAWING ISSUED FOR USE IN FIELD

DESUTA CONCRETE FORMS

This drawing is intended to show equipment layout information and spacing. The actual equipment supplied for the project may differ from the equipment shown on this layout based on availability. **Desuta Concrete Forms reserves the right to allow structurally acceptable substitute equipment as necessary.**

WARNING

Before using, putting up or taking down scaffolding, forming, or shoring check with your boss as to its safe use. There are many ways you can be hurt or killed using scaffolding.
Use all equipment in accordance with safety design requirements and standards.

SAFETY MUST COME FIRST

REV.	DESCRIPTION
D.	
C.	
B.	
A.	

		A	B	C	D	DATE		A	B	C	D
TRACED						DATE					
DRAWN	DL					DATE	06/21/2022				
ENGINEER						DATE					
CHECKED						DATE					

TITLE	Foundation Plan
PROJECT	Car Wash
LOCATION	
CONTRACTOR	

SCALE	DRAWING NO.	SHEET	REV.
3/8"=1'	DD-062122	S1	