

DEVELOPED ELEVATION - NORTH WALL SCALE: 1" = 10'

LEGEND

TOP-DOWN WIRETRUSS CONSTRUCTION



PERMANENT SPIRALNAIL AND LENGTH



TEMPORARY SPIRALNAIL AND LENGTH



SHOTCRETE FINISH (SUPPLIED BY OTHERS)



DATE

SHOTCRETE TEMPORARY SHORING (SUPPLIED BY OTHERS)

BY

DESCRIPTION

HILFIKER	R

ETAINING WALLS

	1902 Hilf Eureka, CA
✓	TOLL-FREE 800 PH 707.443.5093 WEB SITE www.hilfiker.com

fiker Lane 00.762.8962 FAX 707.443.2891

5	8 MAY 19	9,,,
		SPIRALN
ħ9	REVISION DATE	MAI
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M MO	NOTED	DEVEL

DWG DATE	SHOP DRAWINGS	PROJECT NO.
8 MAY 19	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE	MALLARD POINTE	SHEET
SCALE	ISSAQUAH, WASHINGTON	1
NOTED	DEVELOPED ELEVATION	of 12

NORTH WALL

SOUTH WALL

FACE AREA

RETURN PANEL AREA

TOTAL WALL AREA

TOTAL PERMANENT

SPIRALNAILS TOTAL PILASTERS

FACE AREA

RETURN PANEL AREA

TOTAL WALL AREA TOTAL PERMANENT SPIRALNAILS

TOTAL PILASTERS

TOTAL SHOTCRETE

FINISH AREA

(BY OTHERS)

TOTAL SHOTCRETE TEMPORARY SHORING

(BY OTHERS) TOTAL TEMPORARY
SPIRALNAILS 2,220 SQ. FT.

2,424 SQ. FT.

195 EA.

101 EA.

1,620 SQ. FT.

1,800 SQ. FT.

319 EA.

79 EA.

1,474.00 SQ. FT.

633.47 SQ. FT.

72 EA.

180 SQ. FT.

204 SQ. FT.

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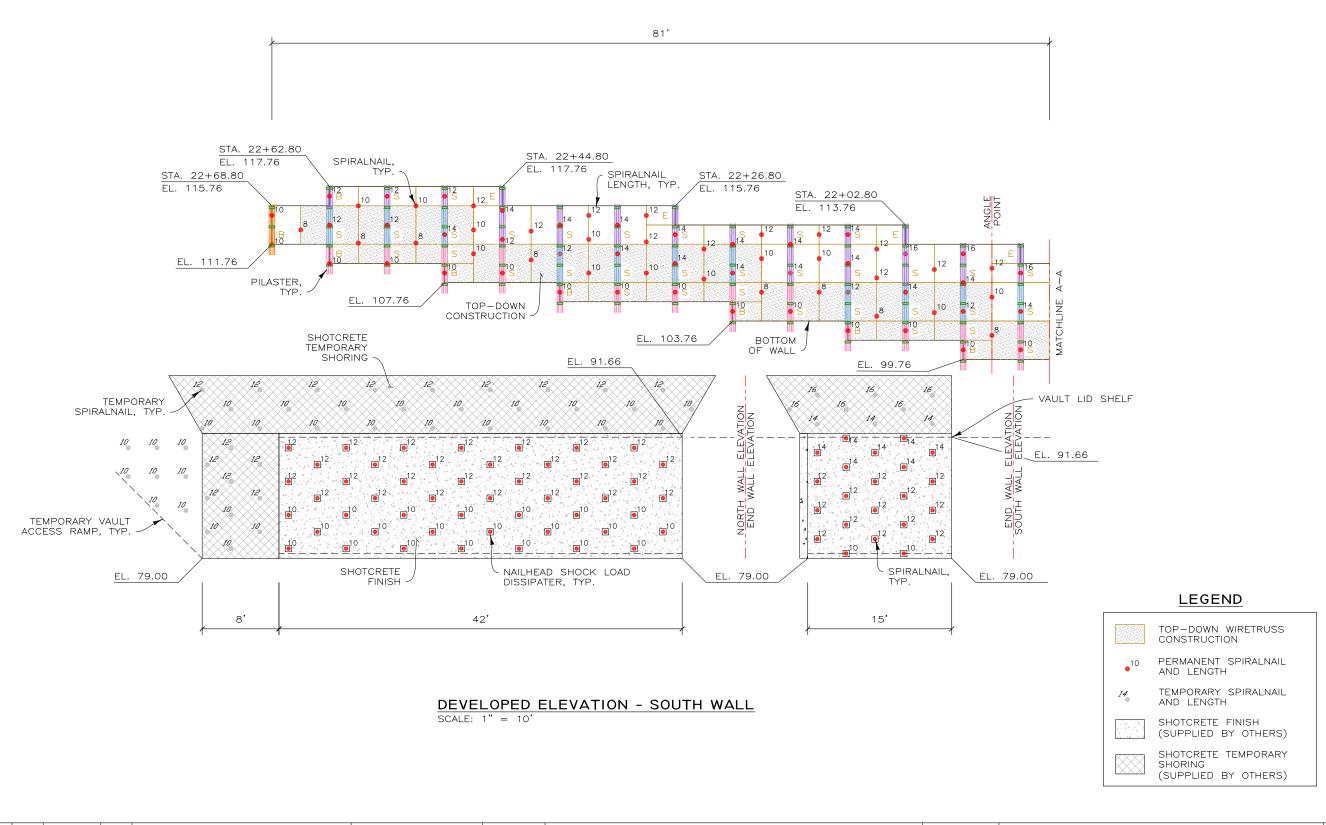
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GRAPHIC SCALE LINE IS 20 UNITS LONG ON ORIGINAL DRAWING

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PROJ. MGR.

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N	4,329,089; 4,324,508; 4,391,557; 4,505,621;					0 10 20	
3	4,343,318; 4,661,023; 4,856,939; 4,929,125; 5,076,735; 5,647,695; 5,722,799; 5,733,072;						CA
8	6,357,970B1; 6,874,975B2; 7,033,118B2; AND OTHERS. OTHER PATENTS PENDING (2008)						
<u></u>	AND OTHERS. OTHER PATENTS PENDING (2008)						

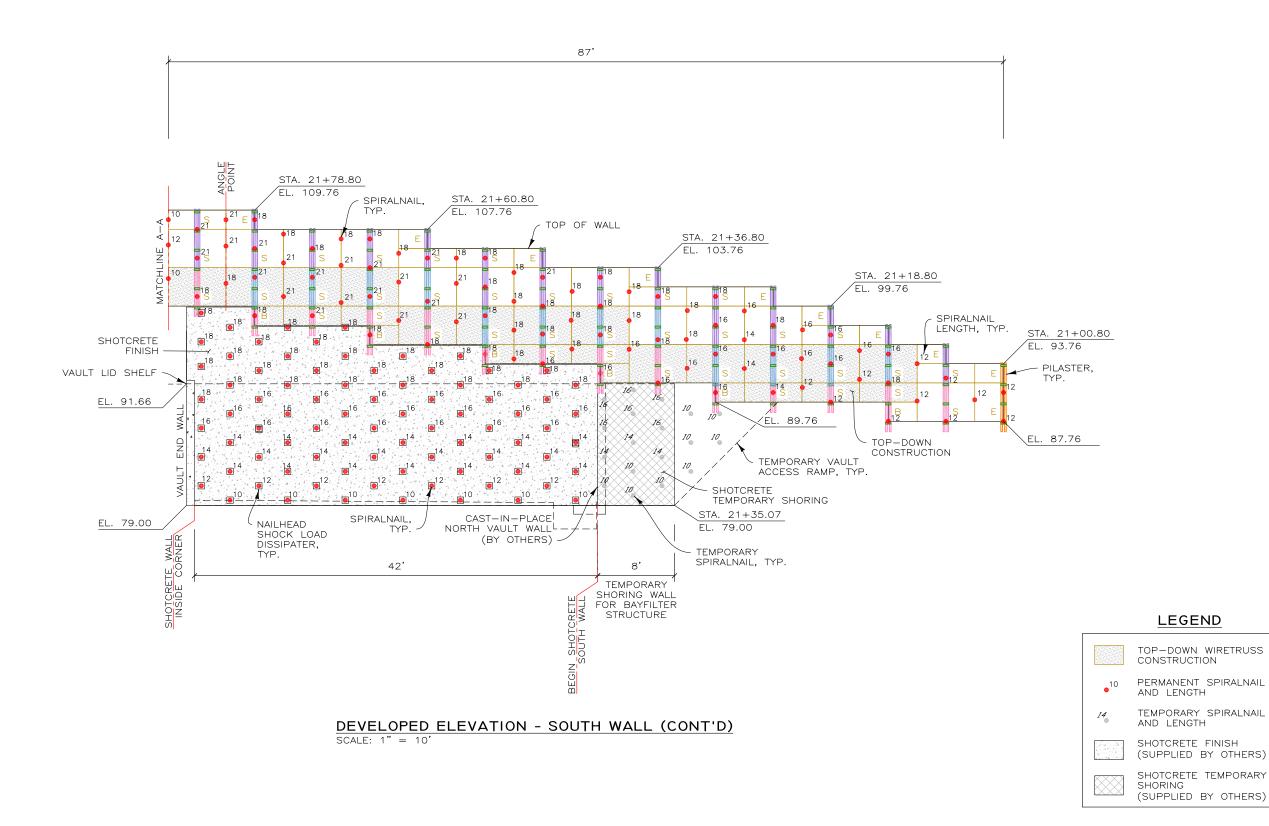
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DWG DATE 8 MAY 19	SHOP DRAWINGS	PROJECT NO.
	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE	MALLARD POINTE	SHEET
SCALF	ISSAQUAH, WASHINGTON	2
NOTED	DEVELOPED ELEVATION	of 12



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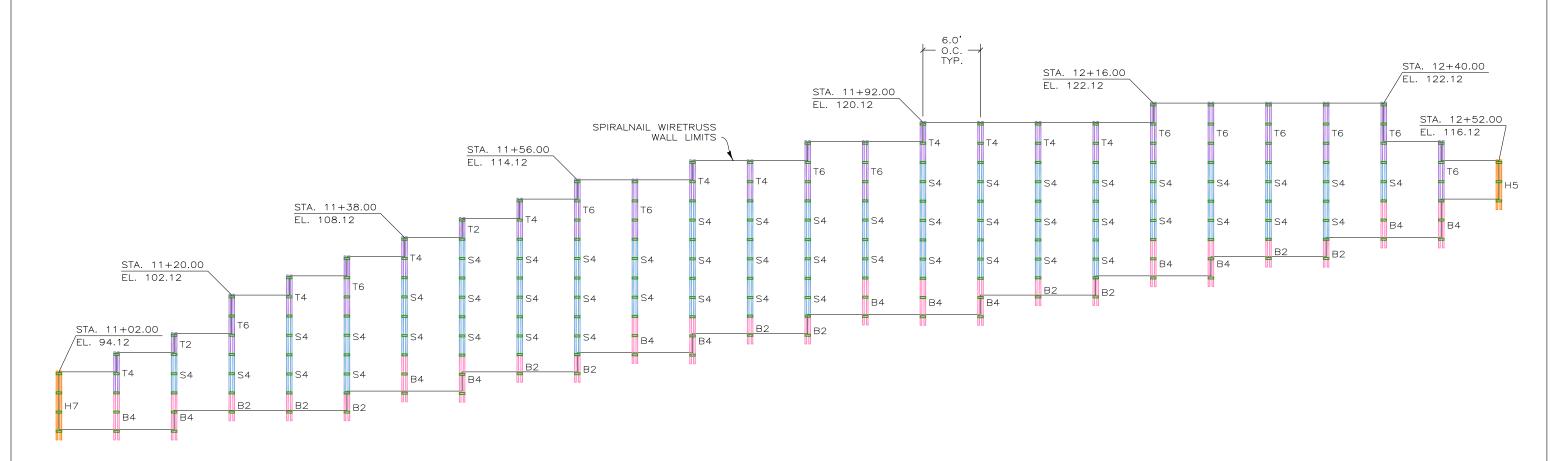
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WEBSITE www.hilfiker.com E-MAIL info@hilfiker.com



DWG DATE	SHOP DRAWINGS	PROJECT NO.
8 MAY 19 REVISION DATE	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE	MALLARD POINTE	SHEET
SCALE	ISSAQUAH, WASHINGTON	3
NOTED	DEVELOPED ELEVATION	of 12



SEGMENTAL COMPOUND PILASTER SCHEDULE - NORTH WALL SCALE: 1" = 10'

> *REFER TO 'SEGMENTAL COMPOUND PILASTERS' DETAIL ON SHEET 6

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AND OTHERS. OTHER PATENTS PENDING (2008)						1

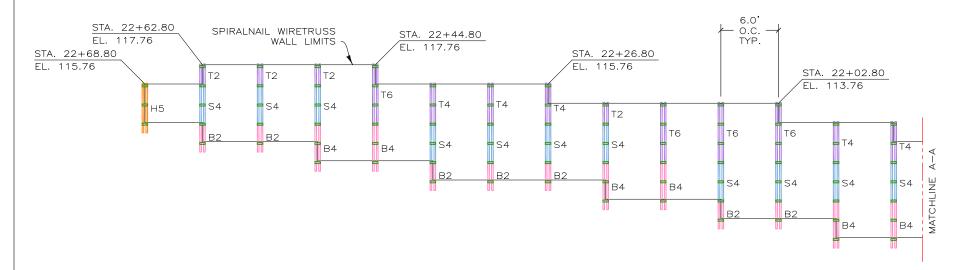
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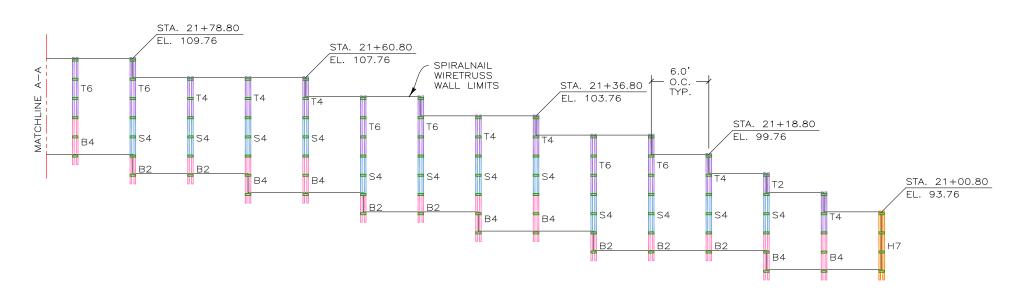


DWG DATE	SHOP DRAWINGS	PROJECT NO.
8 MAY 19	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE	MALLARD POINTE	SHEET
SCALE	ISSAQUAH, WASHINGTON	4
NOTED	PILASTER SCHEDULE	of 12



SEGMENTAL COMPOUND PILASTER SCHEDULE - SOUTH WALL SCALE: 1" = 10'

*REFER TO 'SEGMENTAL COMPOUND PILASTERS' DETAIL ON SHEET 6



SEGMENTAL COMPOUND PILASTER SCHEDULE - SOUTH WALL SCALE: 1" = 10'

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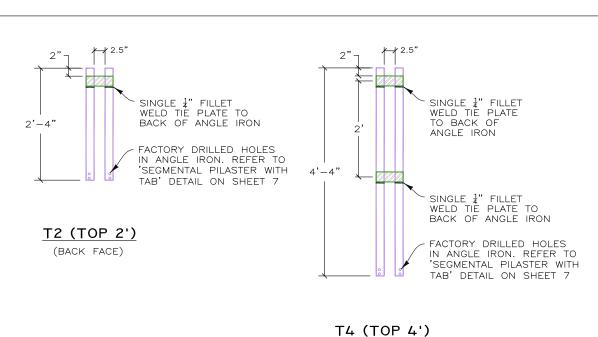
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0 1417 (1 1 0	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE	MALLARD POINTE	CLIEET
	MALLARD FOINTE	SHEET
		\subseteq
SCALE	ISSAQUAH, WASHINGTON	\cup
		OF 12
NOTED	PILASTER SCHEDULE	



(BACK FACE)

FACTORY PUNCHED SQUARES IN TOP TIE PLATE. REFER TO 'SEGMENTAL PILASTER WITH

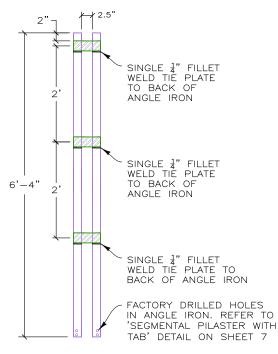
TAB' DETAIL ON SHEET 7

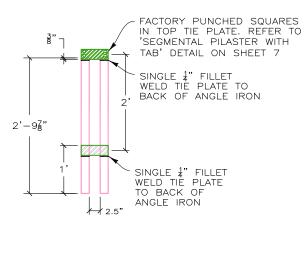
SINGLE ¼" FILLET WELD TIE PLATE TO BACK OF ANGLE IRON

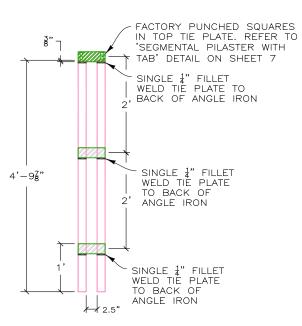
SINGLE ‡" FILLET WELD TIE PLATE TO BACK OF ANGLE IRON

FACTORY DRILLED HOLES IN ANGLE IRON. REFER TO

'SEGMENTAL PILASTER WITH TAB' DETAIL ON SHEET 7







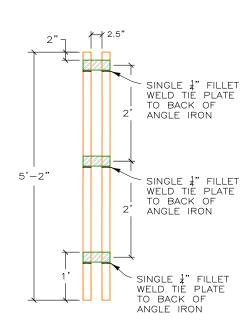
B2 (BOTTOM 2') (BACK FACE)

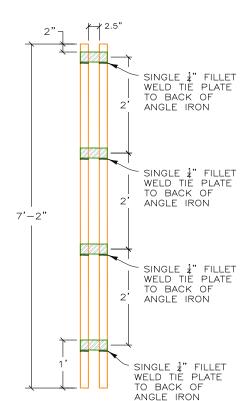
B4 (BOTTOM 4')

(BACK FACE)

T6 (TOP 6')

(BACK FACE)





QUANTITIES:

T4: 22 22 25 26 74 2 B2: B4: S4: H5: H7:

S4 (SEGMENTAL 4')

4'-1"

(BACK FACE)

H5 (FULL HEIGHT 5')

(BACK FACE)

H7 (FULL HEIGHT 7')

(BACK FACE)

SEGMENTAL COMPOUND PILASTERS SCALE: 1" = 2'

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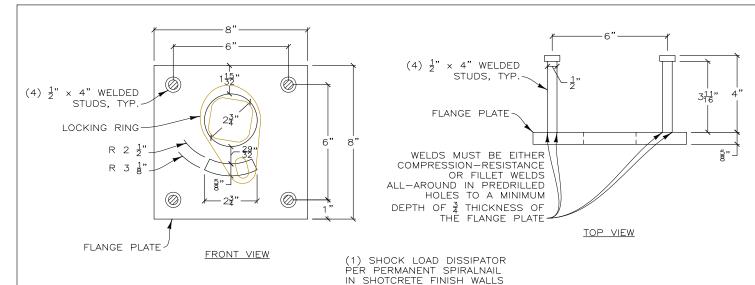
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	REVISION DATE	MALLARD POINTE	SHEET
}	SCALF	ISSAQUAH, WASHINGTON	6
	NOTED	PILASTER DETAILS	of 12

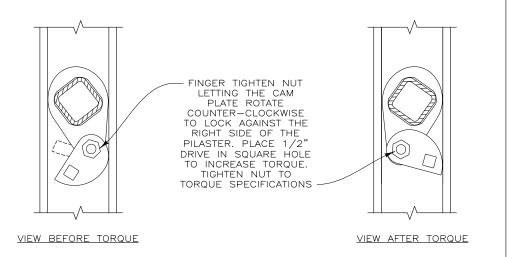


NOT TO SCALE

NAILHEAD SHOCK LOAD DISSIPATOR

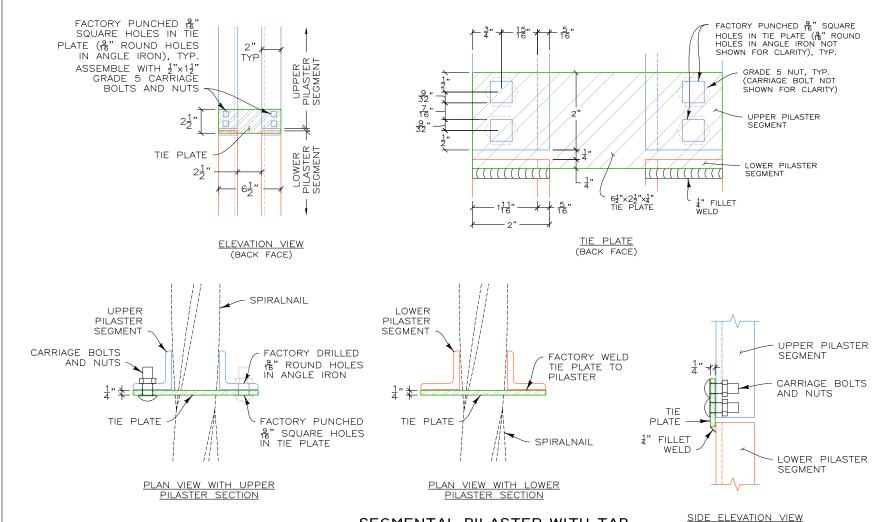
NAILHEAD SHOCK LOAD DISSIPATOR ASSEMBLY SEQUENCE

- AFTER COMPLETING THE SPIRALNAILS, PLACE BASE LAYER OF STEEL REINFORCEMENT AND PRIME SHOTCRETE OVER WHILE PROTECTING THE NAILHEADS AND LEAVING POCKETS FOR FLANGE PLATES.
- SLIDE THE FLANGE PLATES OVER THE SPIRALNAILS AND SECURE IN PLACE WITH THE WIRES TO ADJOINING REINFORCING BARS
- SLIDE THE LOCKING RING OVER EACH SPIRALNAIL AND POSITION SO THE LOCKING RING IS AS FAR AS POSSIBLE TO THE RIGHT END OF CURVED SLOT IN THE FLANGE PLATE, THEN TIGHTEN THE RING NUT TO 20 FT-LB MAX TORQUE.
- 4. SLIDE THE PLASTIC OR WIRE MESH SQUARE PROTECTOR (PROVIDED BY OTHERS)
 OVER THE NAILHEAD FIRMLY OVER THE LOCKING RING.



CAM LOCK LOCKING DETAIL

NOT TO SCALE



CARRIAGE BOLT, TAB, AND NUT, IF RÉQUIRED LONGITUDINAL WIRE OF TRUSS PANEL PILASTER CHANNEL 4" WIDE TRIM EXPOSED END 1" CARRIAGE OF SPIRALNAIL AS BOLT NEEDED. SLIDE LOCKING RING OVER END OF SPIRALNAIL. SEGMENTAL SLIDE TOTAL ASSEMBLY COMPOUND AGAINST THE FACE OF THE PILASTER PILASTER. ADD NUT AND TIGHTEN AS SHOWN IN THE CAM LOCKING DETAIL. INSERT CARRIAGE BOLT THREAD CARRIAGE BEHIND PILASTER INTO BOLT THROUGH CURVED SLOT AND THROUGH CIRCULAR HOLE OF HOLE IN LOCKING RING. CAM PLATE. **NOTE: USE TWO LOCKING RINGS WHERE WIRETRUSS WALL HEIGHT IS 12' OF MORE

ISOMETRIC SPIRALNAIL NAILHEAD RESTRAINER ASSEMBLY

NOT TO SCALE

SEGMENTAL PILASTER WITH TAB

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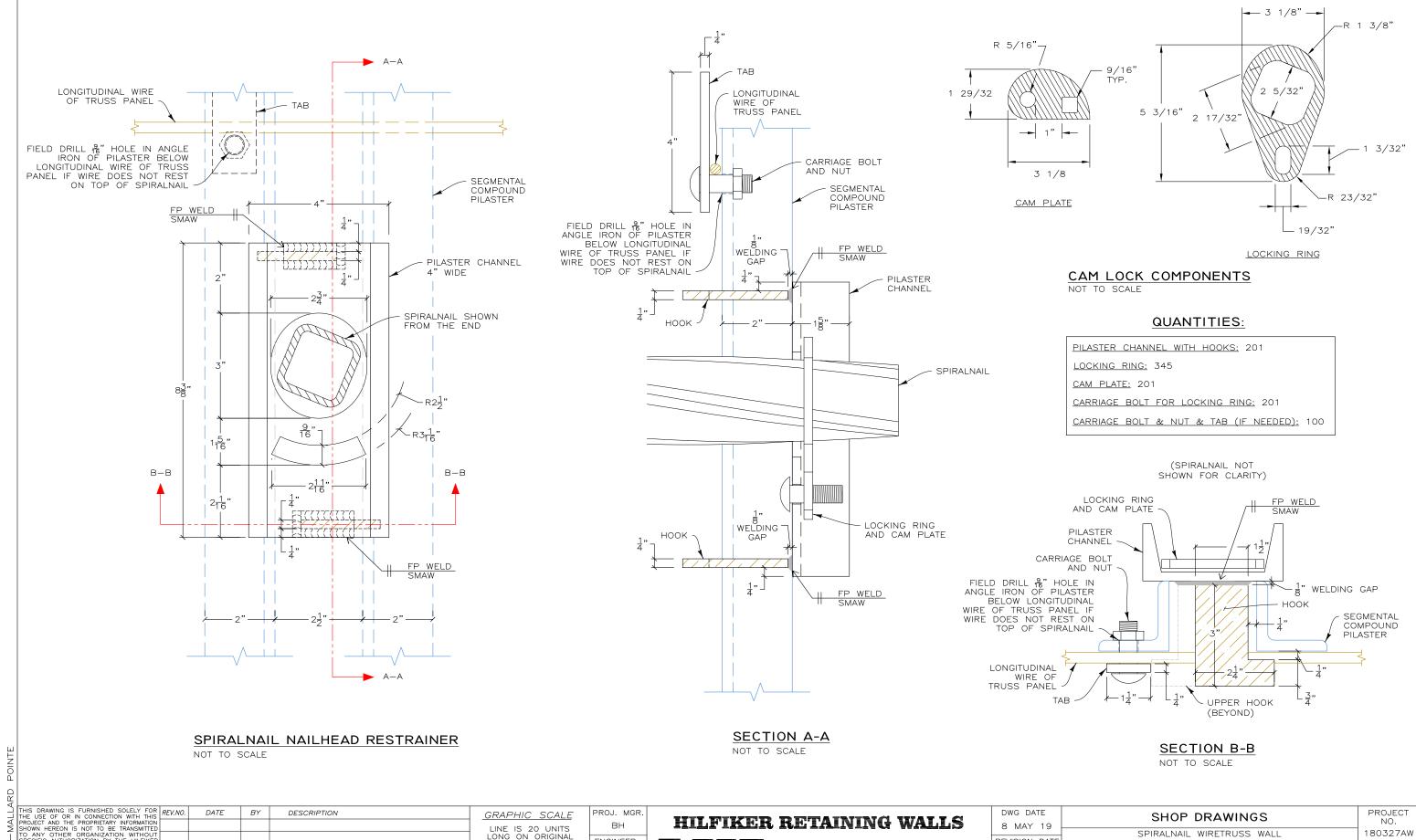
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	DWG DATE 8 MAY 19	SHOP DRAWINGS	PROJECT NO.
		SPIRALNAIL WIRETRUSS WALL	180327AW
	REVISION DATE	MALLARD POINTE	SHEET
?	SCALF.	ISSAQUAH, WASHINGTON	7
	NOTED	TYPICAL DETAILS	of 12



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SCALE	ISSAQUAH, WASHINGTON	8
NOTED	TYPICAL DETAILS	of 12

TYPICAL FOR BOTH STANDARD AND TOP-DOWN WIRETRUSS CONSTRUCTION

QUANTITIES:

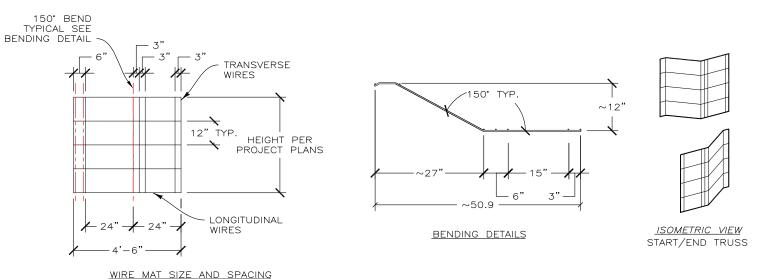
START/END TRUSS

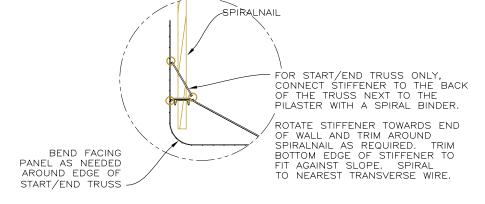
STANDARD TRUSS 2' TALL: 52 4' TALL: 118

2' TALL: 50 4' TALL: 7

STIFFENER

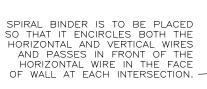
2' TALL: 102 4' TALL: 125

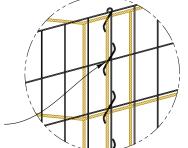




END OF WALL TREATMENT

NOT TO SCALE





SPIRAL BINDER ATTACHMENT NOT TO SCALE

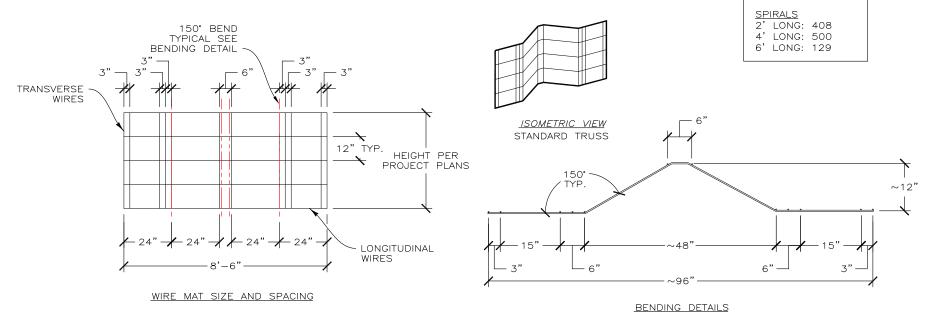
¥10.5"¥ HEIGHT PER PROJECT PLANS (4' SHOWN) 6" TYP.

STIFFENER SCALE: 1/2"=1

START/END TRUSS

NOT TO SCALE

APPROX. (~) DIMENSIONS ARE BASED ON BENDS AND MAY DIFFER SLIGHTLY



STANDARD TRUSS

NOT TO SCALE

TYPICAL FOR BOTH STANDARD AND TOP-DOWN WIRETRUSS CONSTRUCTION

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DWG DATE 8 MAY 19	SHOP DRAWINGS	PROJECT NO.
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REVISION DATE	MALLARD POINTE	SHEET
SCALE	ISSAQUAH, WASHINGTON	9
NOTED	TYPICAL TRUSS PANEL DETAILS	of 12

FOR STANDARD WIRETRUSS CONSTRUCTION

STEP I

IF PREPARED SOIL WILL SUPPORT COMPOUND PILASTERS, POSITION COMPOUND PILASTERS EVERY SIX FEET ALONG WALL LAYOUT LINE AND SET BOTTOM OF COMPOUND PILASTER INTO GROUND PER PROJECT PLANS.

IF PILASTERS CANNOT BE PRE-POSITIONED, PLACE START/END TRUSS WITH BACKING PANEL ON PREPARED SLOPE FIRST THEN POSITION THE COMPOUND PILASTER AGAINST THE EDGE OF THE TRUSS AND SET BOTTOM OF COMPOUND PILASTER INTO GROUND PER PROJECT PLANS. DRIVE SPIRALNAILS THROUGH THE COMPOUND PILASTER INTO THE SOIL. PLACE NAILHEAD RESTRAINER WITH LOCKING RING AND CAM LOCK ON EACH SPIRALNAIL AND TIGHTEN TO TORQUE SPECIFICATIONS.

STEP 2

IF COMPOUND PILASTERS HAVE NOT BEEN PRE-POSITIONED, POSITION NEXT COMPOUND PILASTER AND SET INTO GROUND. PLACE THE STANDARD TRUSS AND BACKING PANEL BEHIND COMPOUND PILASTER AND OVERLAP PANEL AGAINST THE START/END TRUSS USING ZIP TIES OR TIE WIRE TO SECURE TRUSS IN PLACE. DRIVE IN SPIRALNAILS AND LOCK WITH NAILHEAD RESTRAINER, LOCKING RING, AND CAM LOCK.

CONTINUE ADDING STANDARD TRUSSES ALONG WALL ENDING AT FINAL PILASTER WITH A START/END TRUSS

STEP 3

POSITION START/END TRUSS, ADD COMPOUND PILASTER IF NEEDED, DRIVE IN SPIRALNAILS AND LOCK IN PLACE WITH NAILHEAD RESTRAINER, LOCKING RING, AND CAM LOCK

SPIRAL STIFFENERS ONTO STANDARD TRUSSES AT WIRE ON RIGHT SIDE OF COMPOUND PILASTER.

STEP 4

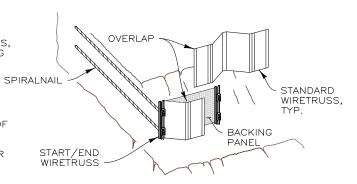
TO BEGIN FACING THE WALL, CENTER EDGES OF A FACING PANEL ON TRUSS OVERLAP. SPIRAL THE ENDS OF OVERLAP AND THE STIFFENER TO FACE

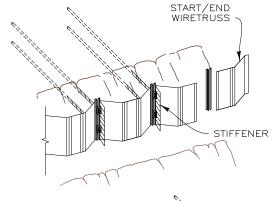
PLACE EDGE OF NEXT FACE PANEL AGAINST PREVIOUS PANEL AND SPIRAL TO WIRETRUSS.

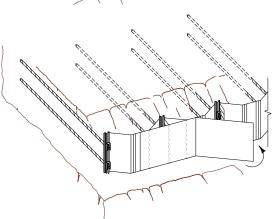
STEP 5

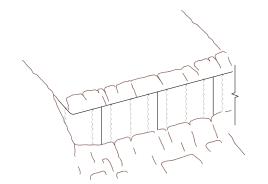
FOR CLOSURE FACING AT EACH END OF WALL, BEND FACING PANEL PER PROJECT PLANS AND INSERT END OF PANEL AGAINST PREVIOUS FACING. FIELD FIT OPPOSITE END AND TRIM AS NEEDED AGAINST SLOPE. SPIRAL FACING TO START/END TRUSS PANEL AND TO STIFFENER. SEE END OF WALL TREATMENT DETAIL,

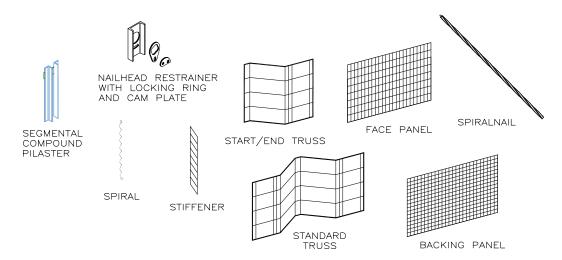
FILL AREA BEHIND WALL WITH BACKFILL PER PROJECT PLANS. COMPACT SOIL AGAINST FACE OF WALL FOR



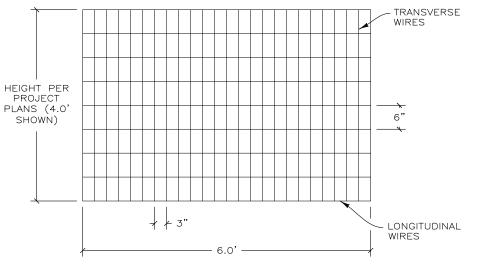








WALL COMPONENTS



FACING PANEL SCALE: 1/2"=1'

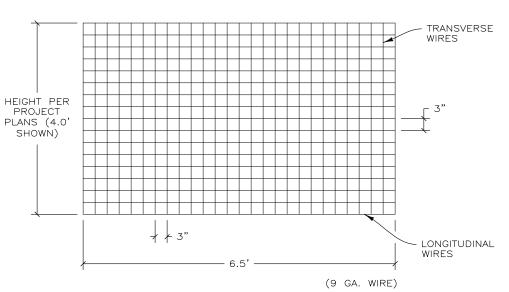
QUANTITIES:

STANDARD FACING PANEL TALL: 27

4' TALL: 36 START/END FACING PANEL

2' TALL: 29 4' TALL: 6

BACKING PANEL 2' TALL: 56 4' TALL: 42



BACKING PANEL

SCALE: 1/2"=1"

STANDARD WIRETRUSS CONSTRUCTION SEQUENCE

NOT TO SCALE

FOR STANDARD WIRETRUSS CONSTRUCTION

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COMPANY. HILFIKER RETAINING WALLS ARE					DRAWING
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1,329,089; 4,324,508; 4,391,557; 4,505,621; 1,343,318; 4,661,023; 4,856,939; 4,929,125;] 0 10 20
,076,735; 5,647,695; 5,722,799; 5,733,072;					

PROJ. MGR.	
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ENGINEER	i
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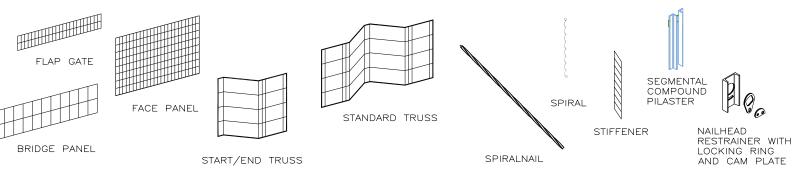
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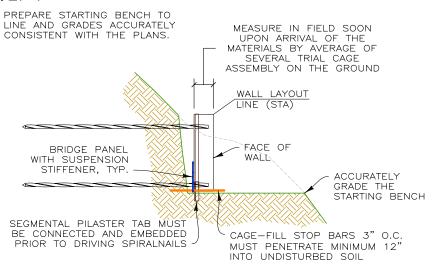
DWG DATE	SHOP DRAWINGS	PROJECT NO.
8 MAY 19	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE	MALLARD POINTE	SHEET
SCALE.	ISSAQUAH, WASHINGTON	10
NOTED	TYPICAL DETAILS	of 12

FOR TOP-DOWN WIRETRUSS CONSTRUCTION



WALL COMPONENTS

STEP I



STEP 2

WALL IS BUILT FROM THE TOP DOWN IN STEPS ONE LEVEL AT A TIME STARTING AT THE HIGHEST STEP. THE TOP OF WALL CONTROLS LINE AND GRADE, AND THEREFORE, SHALL BE BUILT TO LINES AND GRADES AS SPECIFIED ON THE PLANS.

SURVEY THE WALL LINE (FACE OF WALL) REFERENCE POINTS; THEN EXCAVATE THE BENCH FOR THE HIGHEST WALL STEP TO PLAN LINE & GRADE, NO MORE THAN FOR ONE-DAY'S PRODUCTION. ESTABLISH THE WIRETRUSS WALL ASSEMBLY REFERENCE LINES ACCURATELY TO BACK OF NAILHEAD PILASTERS AT THE TOP AND NEAR THE BOTTOM OF WIRETRUSS CAGE USING LASER LEVELS OR OTHER MEANS TO MAINTAIN LINE AND GRADES ACCURATELY.

IN TOP-DOWN WALL CONSTRUCTION, THE PERCISION IN ASSEMBLING THE TOP STEP IS OF UTMOST IMPORTANCE IN ESTABLISHING THE VERTICAL AND HORIZONTAL WALL

DRIVE SPIRALNAILS WHILE ASSEMBLING WIRETRUSS CAGE; SEE WIRETRUSS WALL ASSEMBLY DETAILS. THEN, PLACE THE BOTTOM OF CAGE FILL STOP BARS AS SHOWN WHEN READY FOR ROCK PLACEMENT. PLACE AND DENSIFY ROCK SPALLS AND WALL BACKFILL AS SPECIFIED ELSEWHERE IN THE PLANS.

DESCRIPTION

DATE

BY

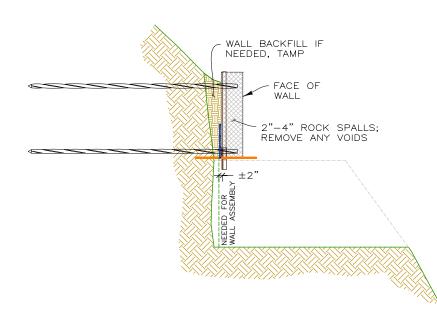
STEP 3

UPON APPROVAL OF THE GEOTECHNICAL ENGINEER, CAREFULLY EXCAVATE THE BENCH FOR THE LOWER WALL STEP INCREMENTALLY FOR NO MORE THAN TWO PILASTER SPACINGS AT A TIME OR AS THE GEOTECHNICAL ENGINEER DIRECTS IN THE

HAND EXCAVATE ONLY IN THE ZONE DIRECTLY UNDER THE COMPLETED WALL CAGE ABOVE. CAREFULLY AVOID
OVEREXCAVATING. THIS OPERATION IS TO BE PERFORMED UNDER DIRECT OBSERVATIONS OF THE GEOTECHNICAL ENGINEER.

MINIMIZE UNDER-EXCAVATION ONLY TO LIMITS NECESSARY FOR WALL ASSEMBLY, AS SHOWN.

COORDINATE LOAD TESTING OF SPIRALNAILS WITH THE GEOTECHNICAL ENGINEER.



TOP-DOWN WIRETRUSS CONSTRUCTION SEQUENCE

NOT TO SCALE

FOR TOP-DOWN WIRETRUSS CONSTRUCTION

HILFIKER RETAINING WALLS

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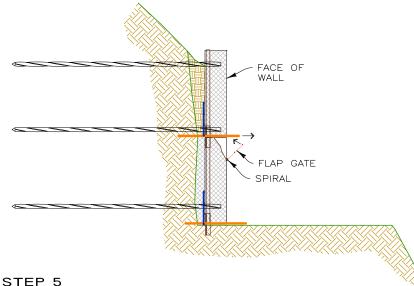
DWG DATE	SHOP DRAWINGS	PROJECT NO.
8 MAY 19	SPIRALNAIL WIRETRUSS WALL	180327AW
REVISION DATE MALLARD POINTE		SHEET
SCALE	ISSAQUAH, WASHINGTON	11
NOTED	CONSTRUCTION SEQUENCE AND DETAILS	of 12

STEP 4

FOLLOW STEP 2 DIRECTIONS TO MAINTAIN HORIZONTAL WALL ALINGNMENT AND

THE WALL FACING PANELS FOR THE LOWER WALL STEPS ARE SPLIT TO FORM AN UPPER FLAP GATE FOR PLACEMENT OF ROCK SPALLS, AS SHOWN. BRIDGING BACK PANELS ARE USED TO SUPPORT THE ROCK—FILL STOP BARS IN THE SPACE BETWEEN THE PILASTERS, SO THAT ROCK SPALLS REACH TO FACE OF EXCAVATION BEHIND THE BRIDGING PANELS; SEE TYPICAL SECTION LEFT.

FOLLOW STEP 2 DIRECTIONS FOR PLACEMENT OF ROCK SPALLS, POURED THROUGH THE FLAP GATE UNTIL THE CAGE CELLS ARE ALMOST FULL. USE A HEAVY DIGGING BAR TO COLLAPSE VOIDS IN ROCK FILL. HAND PLALCEMENT OF ROCK SPALLS WILL BE NECESSARY BEFORE CLOSING AND FASTENNING THE FLAP GATE. THEN, REMOVE THE UPPER CAGE STOP BARS TO JOIN THE CAGE FILL FULL HEIGHT; AND USE A DIGGING BAR THROUGH THE WALL FACING PANEL TO COLLAPSE ANY REMAING VOIDS IN ROCK FILL.



REPEAT STEPS 2 THOUGH 4 UNTIL THE WALL IS COMPLETED.

NOTE: ALL TOP-DOWN CONSTRUCTION SHALL BE CONDUCTED UNDER DIRECT OBSERVATIONS OF THE GEOSTRUCTURES ENGINEER.

THIS DRAWING IS FURNISHED SOLELY FOR REV.NO.

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PROJ MGR GRAPHIC SCALE ВH LINE IS 20 UNITS LONG ON ORIGINAL **ENGINEER** DRAWING

DH

CADD BY

TRANSVERSE WIRES 1.0' - FLAP GATE PANEL FLAP GATE 1.0' 4.0' PANEL 6" FACING PANEL FOR 2' STANDARD TRUSS PANEL 1.0' PANEL LONGITUDINAL WIRES 6.0 *FACTORY CUT (3) 6'x1' PANELS FROM A STANDARD 6'x4' PANEL

(THIS WILL PRODUCE (2) FLAP GATE PANELS AND (1) FACING PANEL FOR

STANDARD 4' FACING PANEL

FACTORY CUT

AND DISCARD

TRANSVERSE

WIRES

A 2' STANDARD TRUSS PANEL)

NOT TO SCALE

QUANTITIES:

STANDARD FACING PANEL

1' TALL: 25 3' TALL: 82 START FACING PANEL (LEFT) 2' TALL: 11 END FACING PANEL (RIGHT) 2' TALL: 10 4' TALL: 1 BRIDGE PANEL 7'x2': 129 FLAP GATE 6'x1': 129

*FACTORY CUT (1) CUSTOM PANEL FROM A STANDARD 6'x4' PANEL

6.0'

(THIS WILL PRODUCE (1) FACING PANEL FOR (1) 4' END TRUSS PANEL)

3"

— 2.75' -

4.0'

4' END FACING PANEL (RIGHT)

NOT TO SCALE

FOR TOP-DOWN WIRETRUSS CONSTRUCTION

FACTORY BEND

PANEL HERE

FACTORY CUT

AND DISCARD

6"

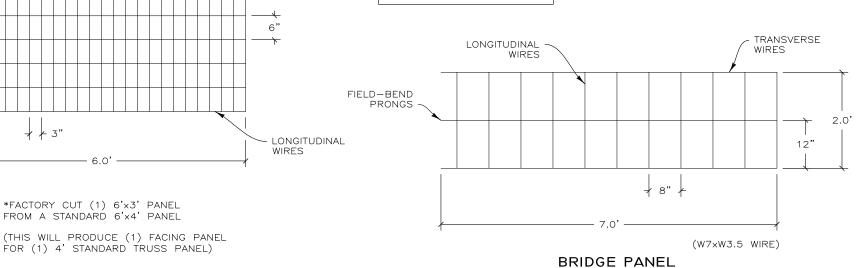
TRANSVERSE WIRES

END PANEL (RIGHT)

LONGITUDINAL

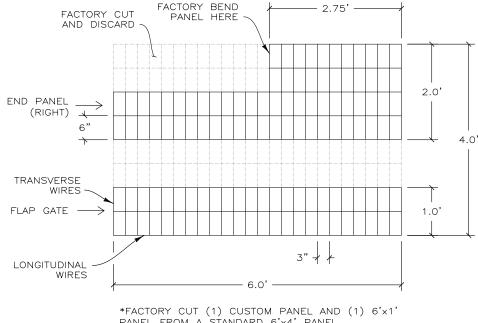
WIRES

3.0'



SCALE: 1/2"=1'

FOR TOP-DOWN WIRETRUSS CONSTRUCTION

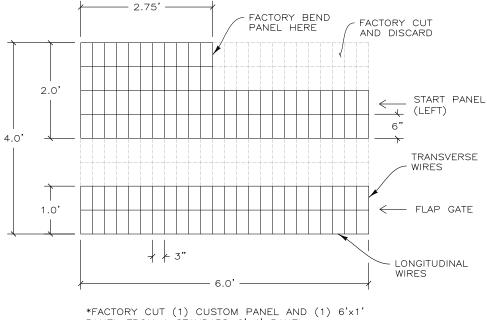


PANEL FROM A STANDARD 6'x4' PANEL

(THIS WILL PRODUCE (1) FACING PANEL FOR (1) 2' END TRUSS PANEL AND (1) FLAP GATE PANEL)

2' END FACING PANEL (RIGHT)

NOT TO SCALE



PANEL FROM A STANDARD 6'x4' PANEL

(THIS WILL PRODUCE (1) FACING PANEL FOR (1) 2' START TRUSS PANEL AND (1) FLAP GATE PANEL)

2' START FACING PANEL (LEFT)

NOT TO SCALE

Y						
_	THIS DRAWING IS FURNISHED SOLELY FOR THE USE OF OR IN CONNECTION WITH THIS	REV.NO.	DATE	BY	DESCRIPTION	G
	PROJECT AND THE PROPRIETARY INFORMATION SHOWN HEREON IS NOT TO BE TRANSMITTED					
Ī	TO ANY OTHER ORGANIZATION WITHOUT SPECIFIC AUTHORIZATION BY THE HILFIKER					L
	COMPANY. HILFIKER RETAINING WALLS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING					
`	PATENTS: 243,613; 243,697; 288,616; 4,117,686; 4,329,089; 4,324,508; 4,391,557; 4,505,621;					0
v)	4,343,318; 4,661,023; 4,856,939; 4,929,125; 5,076,735; 5,647,695; 5,722,799; 5,733,072;					
ñ	6,357,970B1; 6,874,975B2; 7,033,118B2; AND OTHERS. OTHER PATENTS PENDING (2008)					
	(2000)					

*FACTORY CUT (1) 6'x3' PANEL

FROM A STANDARD 6'x4' PANEL

NOT TO SCALE

FOR (1) 4' STANDARD TRUSS PANEL)

4' STANDARD FACING PANEL

GRAPHIC SCALE LINE IS 20 UNITS LONG ON ORIGINAL DRAWING



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HILFIKER RETAINING WALLS

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DWG DATE	SHOP DRAWINGS	PROJECT NO.
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SCALF	ISSAQUAH, WASHINGTON	12
NOTED	TYPICAL TRUSS PANEL DETAILS	of 12

4.0'

3.0'

PANEL