

GIBRALTAR CABLE BARRIER SYSTEMS INSTALLATION GUIDE

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Gibraltar Cable Barrier Systems, LP Burnet, TX 833-715-0810 (toll free) 512-715-0808 (office) 512-715-0811 (fax) www.gibraltarglobal.com

[Note to Installer: Refer to Contract Plans and Documents for Specific Details]

The Gibraltar Cable Barrier Systems are covered by one or more of the following patents: U.S. Patent No(s).: 7,364,137; 7,398,960; and 7,401,996. Other U.S. and International patents are pending.

Version: [6.1]



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I. Welcome

Welcome to the Gibraltar Cable Barrier System Installation and Maintenance Guide. This guide is for your use when installing Gibraltar's cable barrier system. This installation guide is for standard cable barrier installations.

Before You Begin:

Check and confirm packing list contents. Please report any errors or shortages immediately to Gibraltar at 1 (833) 715-0810 or 512-715-0808.

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II. System Installation & Components

- Cable Barrier System Longitudinal Section Layout
- В. Cable Barrier System - Terminal Section Layout
- C. Parts Lists

III. Equipment/Tools Required

- Auger (for Socketed Line Post and Terminal Post foundations)
- Auger (Anchor Post foundation)
- Post Driver (for Driven Post option)
- Adjustable Wrench (2)
- **Tension Meter**
- Utility Trailer (rigged for Wire Rope Spools)
- Flathead Screwdrivers (2)
- 3 Ton (6000 lb.) Chain Hoist (6 Ton hoist may be required in cold climates)
- Cable Grabbers (2)
- Vice Grips (large enough to fit over 3/4in cable) or 3/4in cable clamps
- Hammer
- Thermometer

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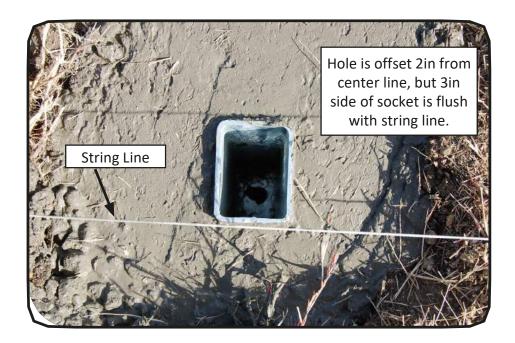
IV. Terminal Section Installation

The Gibraltar cable barrier system shall be installed in NCHRP Report 350 standard compacted soil. Soil must be well drained.

Step 1. Establish and verify starting point of cable barrier system in cooperation with designated Transportation Department representative. If the starting point is at the beginning of the length of need/longitudinal section and not the terminal section, then add 27ft-6in to the starting point.

Step 2. Establish the cable barrier center line. Mark the position/s of the Anchor Post/s (Part AP) and terminal posts as per manufacturer's plans.

NOTE: when excavating, each hole is offset 2in from the center line, on alternating sides of the cable barrier fence line.



Place Socket in terminal post holes. Place the 3in (short) side of the socket directly on the string line, parallel to the cable barrier center line.

Note: Some sockets have a welded seam along the inside of the 3in side of the socket.

NOTE: In terminal posthole No. 1, the socket must be <u>angled toward the anchor 1½in in 12in out of plumb.</u>

<u>Post out of plumb tolerance:</u> The sockets should be set plumb, or the posts driven plumb. An acceptable tolerance out of plumb is 3in at the top of the post. This tolerance is aesthetic only and does not affect the performance of the system.

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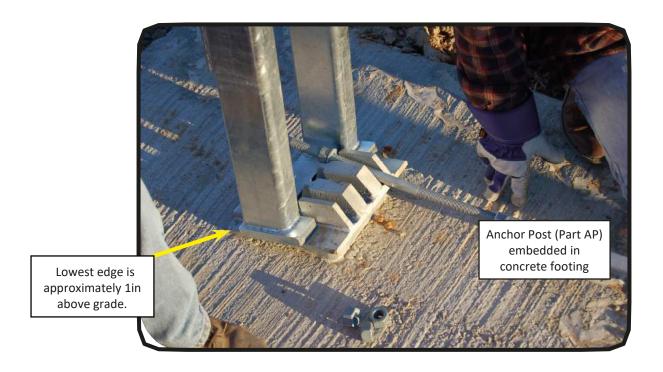
Step 3. Center and auger the 24in diameter by 8ft minimum deep hole for the embedded Anchor Post (Part AP). [For 4 cable system - anchor depth is 10ft minimum.] Hole must be in-line with the cable barrier center line.

NOTE: Sizes of footings may vary depending upon state specifications and soil conditions.

Step 4. Place anchor post rebar cage (provided by installer) into the hole and pour concrete to within 2ft of top, then stab Anchor Post (Part AP) in place plumb. Finish pouring concrete to grade. The center of the Anchor Post (Part AP) should be centered in the hole and set in-line with the cable barrier string line.

NOTE: The center of the Anchor Post (Part AP) must be centered in-line with the cable barrier fence center line.

Set the lowest edge of the top plate of the Anchor Post (Part AP) one inch (1in) above grade facing opposite from the cable barrier system.



NOTE: The Gibraltar terminal is designed for standard soil meeting NCHRP 350 standard soil specifications, special depths and anchor designs are used for alternative soil types. The soil should be well drained and compacted. If poor soil conditions are encountered (i.e. "sugar" sand, expansive clay or ground water) it is important that you contact your transportation agency for any special criteria for weak soil conditions. In some cases it may require that a qualified engineer be consulted for soil investigation and engineering.

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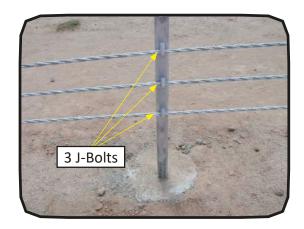
Allow concrete to set for a minimum of 72 hours before tensioning cables.

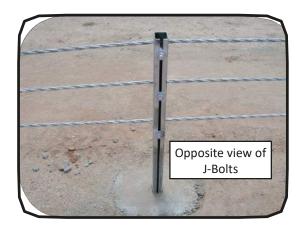
Set Terminal Post No. 1 (Part TP1) angled towards Anchor Post 1¼in in 12in out of plumb.



The angle of the Terminal Post No. 1 (Part TP1) may be determined by tilting the post 1 ¼in in 12in out of plumb, or 5/8in in 6in out of plumb. Add specified concrete.

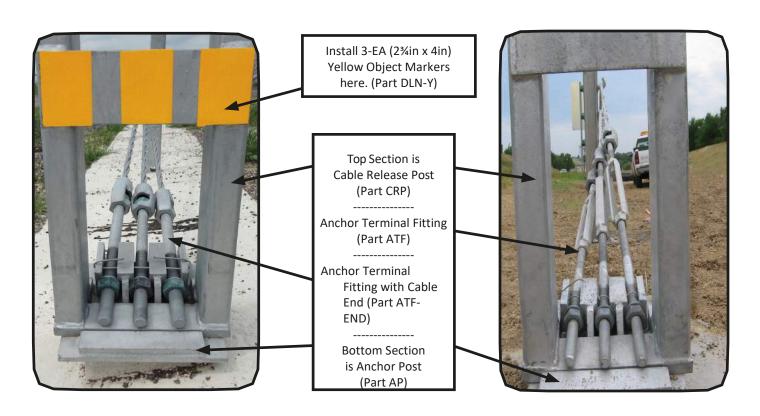
Step 5. Place Terminal Post No. 1-Weak (Part TP1), Terminal Post No.2-Weak (Part TP2), and the appropriate TL-3 Terminal Posts No. 3 & 4 - Standard (Part TP3/4-3) or the appropriate TL-4 Terminal Posts No. 3 & 4 - Standard (Part TP3-4 or Part TP4-4) in their respective sockets. For each Terminal Post, place the "open" side of the C-Section post away from the center line. Place the three (3) or four (4) J-Bolts (Part J-BLT) as required in each terminal post.



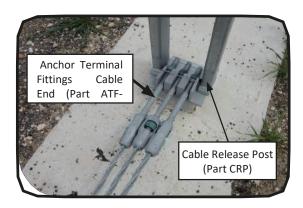


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Set Cable Release Post (Part CRP) on top of Anchor Post (Part AP).





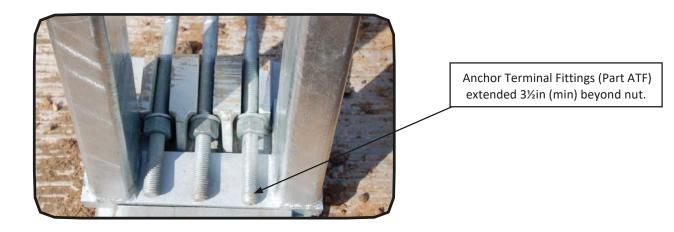


Step 6. Connect the three (3) or four (4) cables to the Anchor Terminal Fittings (Part ATF) by inserting the cable ends into the "acorn" shaped casting of the Anchor Terminal Fittings (Part ATF). Using two flathead screwdrivers, separate the three strands of the cable at the end within the acorn shaped casting.

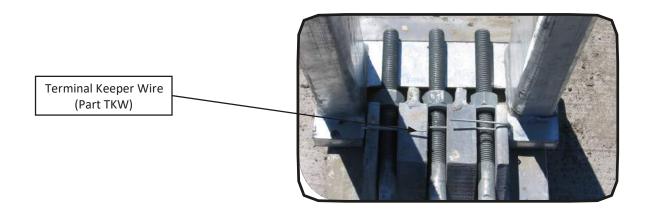
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Place and insert the triangular wedge spike between the cable strands. The triangular wedge spike must point toward the cable. The strands will fit within the acorn channels. Remove the screwdrivers and drive the spike into the cable, at least a 1/2in past the end of the cable. Next, take a hammer and hit the end of the acorn casting away from the cable in order to securely set the cable into the casting. Then place the nut inside the opening of the Anchor Terminal Fitting (Part ATF) and thread onto the bolts. *Refer to video on website for further demonstration. (www.gibraltarus.com)

Connect the Anchor Terminal Fittings (Part ATF), with cable attached into the gussets located on the top portion of the Anchor Post (Part AP). Place Terminal Keeper Wire (Part TKW) over the end of the Anchor Terminal Fittings (Part ATF).



NOTE: The threads on the Anchor Terminal Fittings (Part ATF) must extend 3½in (min) beyond the nuts.



NOTE: Place terminal keeper wire before adding tension to system. (Use 12-gauge residential stay-wire for terminal keeper wire.)

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V. Longitudinal Section Installation

The Gibraltar cable barrier system is to be installed as a median or roadside barrier with a slope of 6:1 or flatter without depressions, obstructions, etc, that may influence or have an effect on vehicle stability or trajectory. Site grading or fill may be required where topographical issues would prevent the cable height to be inconsistent with tested and proper design heights.

The Gibraltar TL-4 cable barrier system is acceptable as a TL-3 traffic barrier when placed no farther than 4ft down a 4:1 slope (for adjacent traffic impacts) and no closer than 8ft from the ditch bottom for opposite side impacts.

When installing the cable barrier system on a radius, place the Gibraltar cable barrier system on the convex side of the traveling lane but not closer than 15ft from the concave side of the traveling lane. Please be advised that if weak soil conditions are encountered while installing on a radius application, it may require that a qualified engineer be consulted. Listed below is Gibraltar's line post spacing for various radii lengths. Use the post spacings below if the transportation agency does not have guidelines of their own. They are as follows:

Radius(FT)	Post Spacing
250-500ft	10ft
500-1500ft	15ft
1500-2500ft	20ft

A. <u>Socketed System</u>

Step 1 - For a socketed system, space the line posts and dig the footings as shown on the plans. Center the auger 2in off the center line, alternating on each side of the center line. All line post sockets should be set plumb.

Rock Clause: Where solid rock is encountered:

- For a socketed post, continue digging hole, 15in deep into rock or to the required plan depth whichever comes first
- For a driven post, drill a 4in diameter hole 18in deep into rock or to the required plan depth, whichever comes first.
- For an Anchor Post, continue digging hole, 30in deep into rock or to the required plan depth, whichever comes first.

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Step 2. Place the appropriate Socket in each hole and set plumb. Place the 3in side of the socket directly on the string line and parallel to the center line of the cable barrier fence.





Step 3. Place the appropriate Line Post (either Part 3-LNP-S or 4-LNP-S) into socket. Alternate posts with the "open" seam of the C-section post facing the center line.

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B. <u>Driven Post System</u>

Step 1. For a driven post installation, drive and space the posts as shown on the plans. Direct drive the posts to the specified depth on alternating sides of the center line with the "open" seam of the C-Section post facing the center line.

C. Installing Cable

For the installation of all systems, we recommend that you utilize a utility trailer with the capacity to spool and dispense all three Cables (either Part CBL-STD or CBL-PRE) simultaneously. (NOTE: Each spool contains 2,000 linear feet of cable and weighs approximately 1,900 lbs per spool.) Special arrangements can be made for more or less cable per spool.

It is preferable to use a cable trailer with a GVW of 20,000 - 24,000 lb. capacity, capable of holding a minimum of six (6) spools of cable at one time. Six (6) spools of cable, along with enough related posts and parts weigh approximately 18,000 lbs.



Special Note: When swaged cable is required, call Gibraltar for special instructions on un-spooling, stringing and connecting swaged cable.

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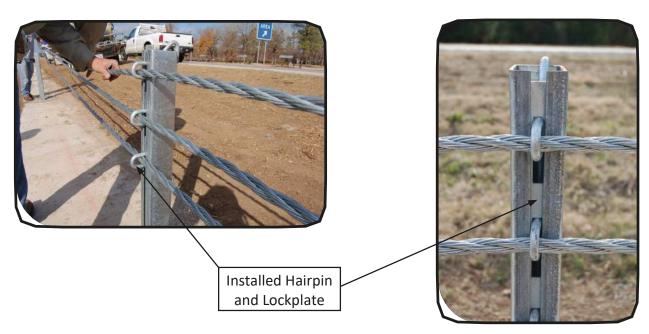
D. <u>Installing Hairpins and Lockplates</u>

Step 1. Insert the bottom end of the appropriate Hairpin into the C-section channel located at the top of the open line post by holding the angled handle of the hairpin.

Step 2. Lay cables in molded/indented slots of the hairpin and place the hairpin on top of the back side of post, then drop the appropriate Lockplate into place on the inside of the line post.

<u>Cable Height Tolerances:</u> The bottom cable should be 20in above ground grade, +/- 1in tolerance is allowed, at the socket or post location.



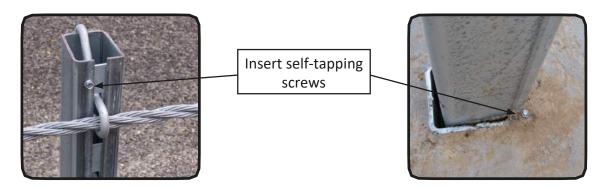


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Geometric Features (Depressions)

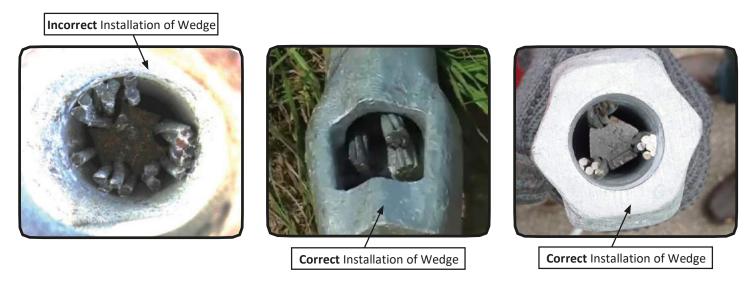
When the cable barrier installation goes through a depression and tension on the cables begins to pull the hairpin and lockplate up and out of the top of the C-section post, attach the lockplate to the C-section post with a self-tapping set screw (size #12 by ¾in). Also, if necessary, with a socketed post system, it may be necessary to run a self-tapping screw in between the post and the socket. (See photos below.)



E. Installing Cable Splice Turnbuckles

Step 1. At every 2,000ft (ensure at least one set of turnbuckles per run), cut the cable and place a Cable Splice Turnbuckle (Part CSTB) between the cable sections. Connect the cable to the Cable Splice Turnbuckle (Part CSTB) by inserting the end of the cable into the "acorn" shaped casting of the cable splice turnbuckle.

Step 2. Using two flathead screwdrivers, separate the three strands of cable at the cable ends that go into the acorn shaped casting. Place the triangular wedge spike pointing toward the cable and insert the spike between the strands. The strands will fit within the acorn channels. Remove the screwdrivers, rotate the acorn up over the wedge and drive the spike at least a 1/2in past the end of the cable. Take a hammer and hit the end of the acorn casting away from the cable, seating the cable into the casting.



Note: When connecting the cable, make sure that all of the turnbuckle bolt threads are available for tightening by the turnbuckles. Grease the threads prior to final tensioning.

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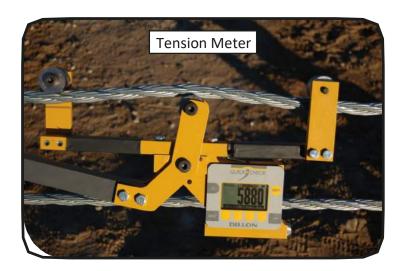
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Step 3. Place the nut in the opening of the Cable Splice Turnbuckle (Part CSTB) and thread the nut onto the bolt. **NOTE: The Cable Splice Turnbuckle (Part CSTB) should be positioned between line posts, and not directly on a line post.** When cutting the cable, cut just past a line post so that when tension is applied the turnbuckle will be between two posts. If unavoidable, call for additional parts.

Step 4. When connecting cables, use at least a 6,000 lb. chain hoist. If connecting cables in the middle of a run, use two cable jacks and a chain hoist. Tension the cable to the approximate tension shown on the plans, relative to the current temperature at the time of installation.

Step 5. Next, cut and connect the cable by attaching an anchor terminal fitting to the cable, then place all anchor terminal fittings into the slots of the anchor post. (See Step 6, page 7 & 8 for photo detail.) **NOTE:** Placement of the anchor terminal fitting (Part ATF) in the anchor Post slots is not a critical placement issue, (for example, the top cable in the middle slot).

Step 6. When placing final tension on cables (in accordance with the tensioning chart located on the plans) adjust each turnbuckle as needed; log the current date, time, temperature and amount of tension by utilizing the Tension Meter (Part T-MTR).



NOTE: Once a section is completed, each section should be checked from beginning to end for correct tension and adjustments, if needed. Once you have reached the specified tension required, take a hammer and screwdriver and "ping" the threads just enough so that the turnbuckle will not "back off", thus causing a loss of tension.

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VI. Repairs and Maintenance

Once the system takes a hit, repairs can be made quickly and easily. Check for any damaged parts within the length of need and/or within the terminal section. All damaged parts must be replaced. The cable can take multiple hits, but when a single strand is broken, cut out the damaged section of cable and splice in a new cable using turnbuckles.

Replacing damaged posts:

For a driven post system, use a mechanical post puller to lift the bent post out of the ground. Drive a new post to the required depth. To replace a damaged, socketed post when "wedged" in the socket, use a come-along and a straight post as a "pull post" to lift and remove the damaged post out of the socket. Place a new post in the socket. Once all of the damaged posts are replaced, attach the cables with new hairpins and lockplates.

If the terminal section is hit, replace any and all damaged parts and re-install as per terminal section installation instructions.

If a vehicle becomes entangled:

Should a vehicle become entangled in a cable and cannot be removed from the system, as a last resort, the turnbuckle may be cut to untangle the vehicle. Use extreme caution when cutting the turnbuckle. Have all personnel stand clear of the system. Whoever is cutting the turnbuckle should stand perpendicular to the cable and cut with a quick saw. Note that it is important to realize that if you cut the turnbuckle you can cause more damage to the system. Therefore, cutting a turnbuckle should be used only as a last resort and extreme caution should be exercised.

Re-tensioning cable:

Go to the nearest turnbuckle and attach the tension meter to the first cable you will be tightening. Adjust the turnbuckle until the tension on the cable matches the tension chart, based on the current temperature. Repeat this process for the other two cables.

Note: If the system takes a hit within 300ft of a turnbuckle, adjusting the turnbuckles at that one location should be sufficient. However, if the system takes a hit midway between turnbuckle splices, (approximately 1,000ft from a turnbuckle), re-tensioning should be performed at turnbuckles on each side of the hit.

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CONTACT US

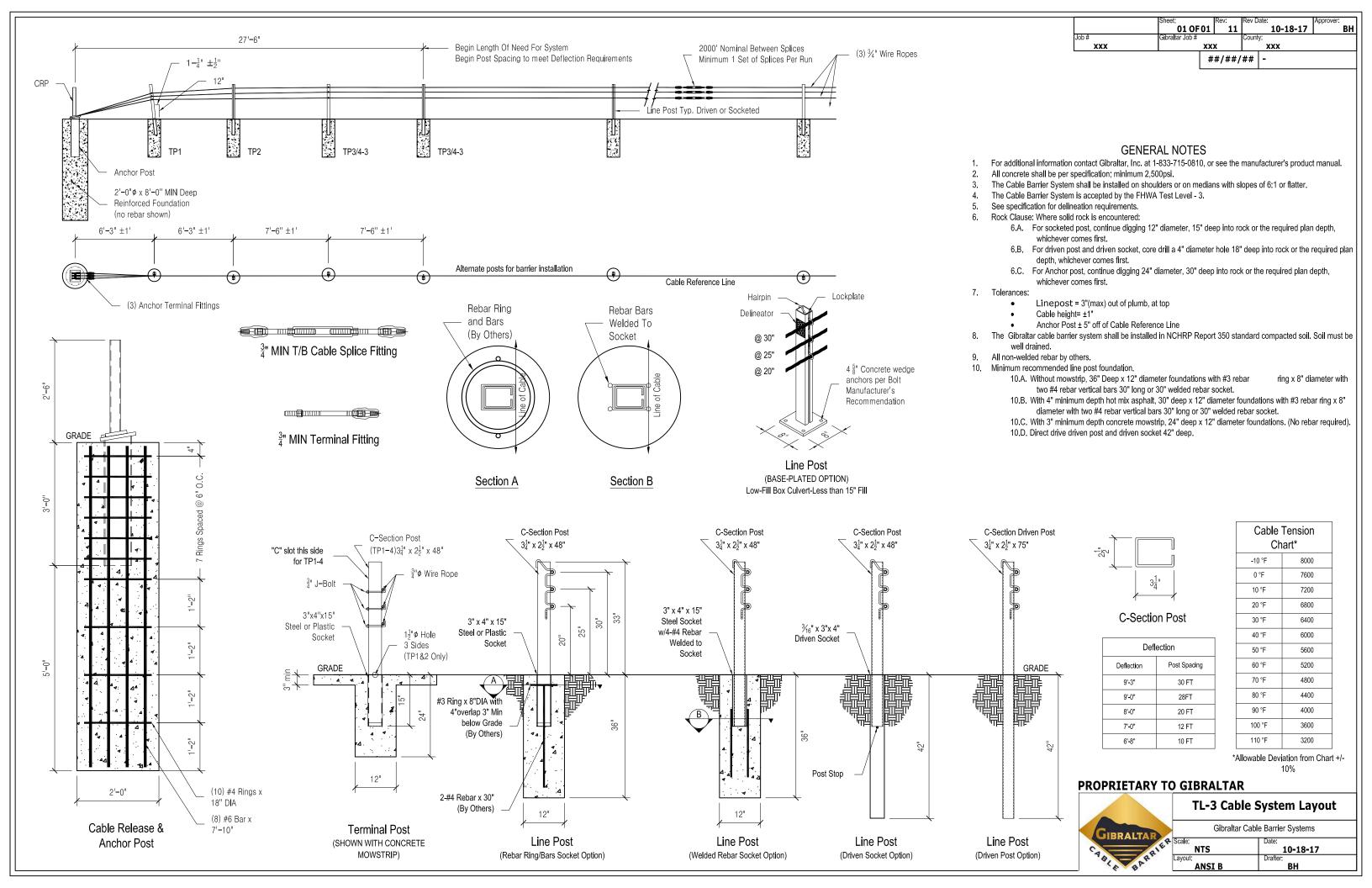
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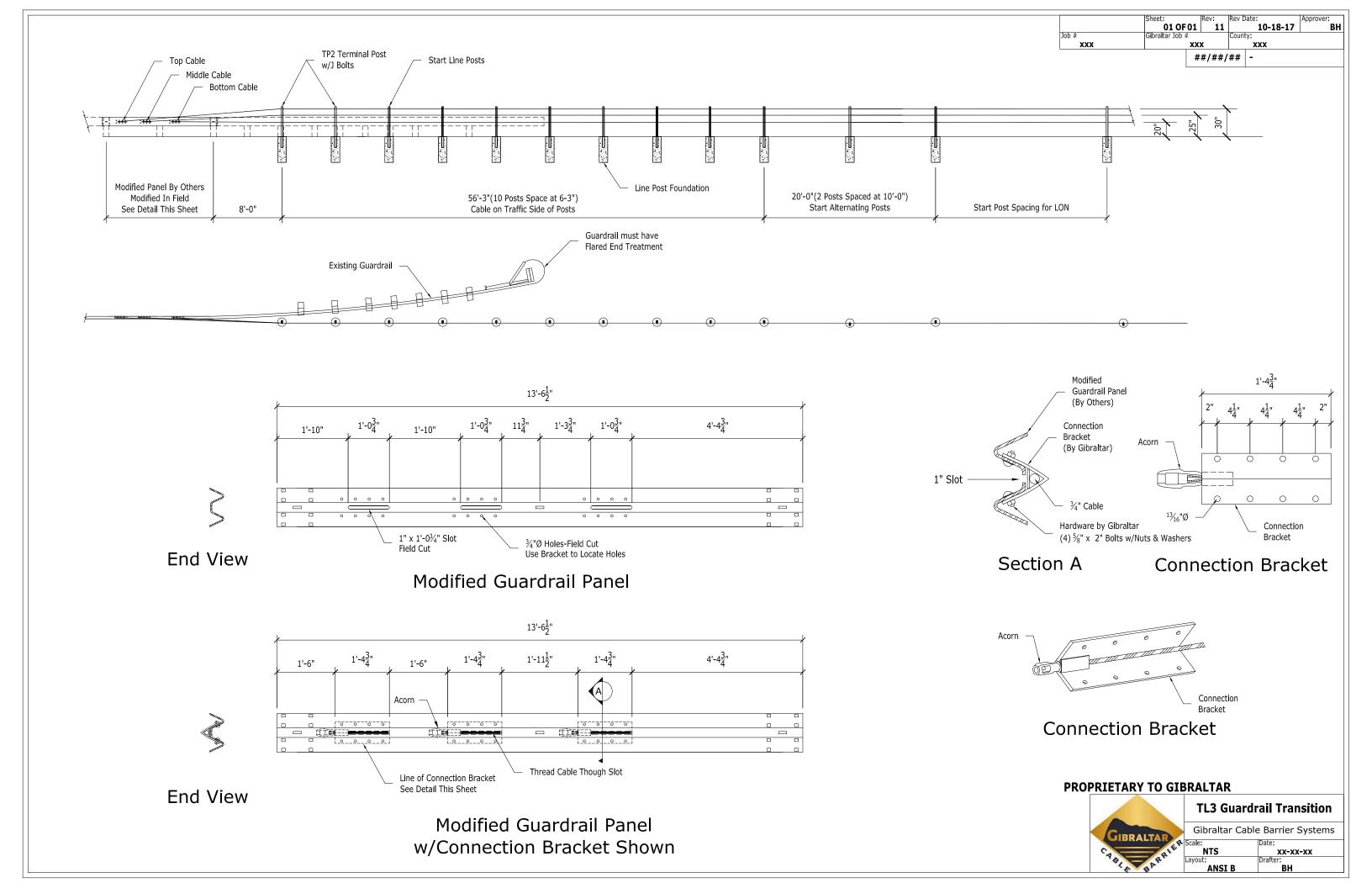
VII. <u>Technical / Sales Support</u>

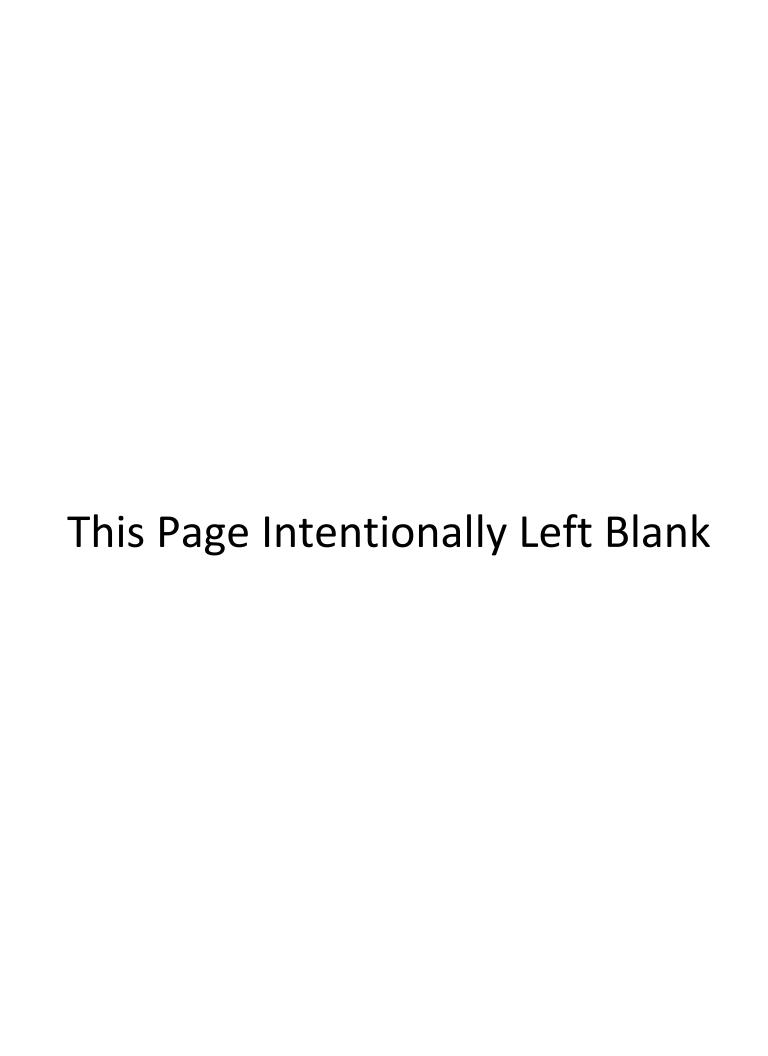
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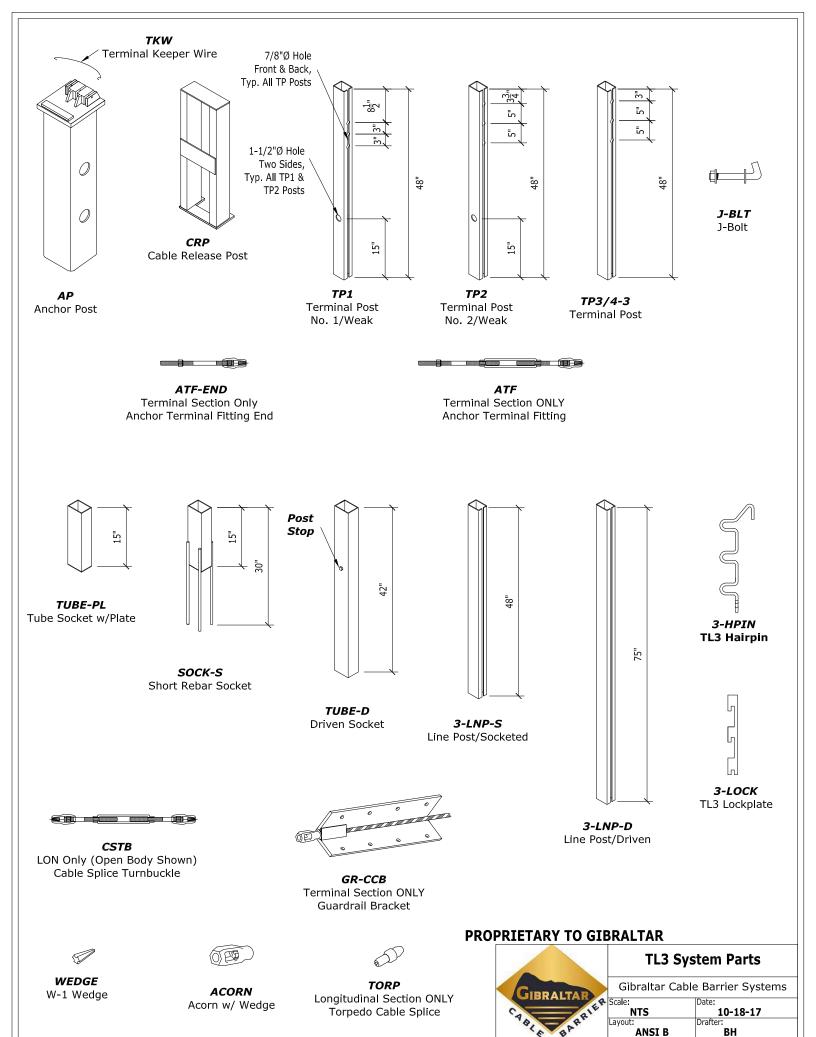
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Gibraltar Cable Barriers Burnet, TX Toll Free: 833-715-0810 Office: 512-715-0808 Fax: 512-715-0811

Email: orders@gibraltarglobal.com

ORDER FORM

System Type: TL-3 with 3/4" fittings

PART #	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
3-HPIN	TL- Hairpin (7/16" x 17") *[See Note 1 below]	EA		
3-LOCK	TL-3 Lockplate Assembly (1/8"x 1 1/2" x 6' 5/8")	EA		
U-LOCK	Ubolt Lockplate Assembly (consists of Lockplate and 3 ubolts)	SET		
3-LNP-S	TL-3 Line Post / Socketed (2.5" x 3.25" x 48")	EA		
3-LNP-D	TL-3 Line Post / Driven (2.5" x 3.25" x 75"	EA		
	TERMINAL PARTS			
3-TERM	Terminal Section (Complete Unit)	UNIT		
J-BLT	J-Bolt (3/4" -J-Bolt)	EA		
TP1	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3/4-3	Terminal Post No.3 & No.4 / Standard (2.5" x 3.25" x 4'0")	EA		
CRP -1"	Cable Release Post	EA		
AP-1"	Anchor Post	EA		
ATF	Anchor Terminal Fitting (3/4"" x 30")	EA		
ATF-End	Anchor Terminal Fitting End - 18" x 3/4" Rod with Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF		
SOCK-S	30" Socket 4" x 3" -15" long W/ (4) 20" bars	EA		
SOCK-L	42" Socket 4" x 3" -15" long W/ (4) 32" bars	EA		
TUBE-PL	15" Tube Socket 4" x 3" with welded plate	EA		
TUBE-D	42" Driven Socket 4" x 3" with Rod at 15"	EA		
CSTB	Cable Splice Turnbuckle (3/4" x 24")	EA		
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap Sleeve	EA		
T-MTR	Tension Meter	EA		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.	•	PARTS TOTAL	
NOTE-2			NG & HANDLING	
	(unless remnant pieces are available).		ORDER TOTAL	



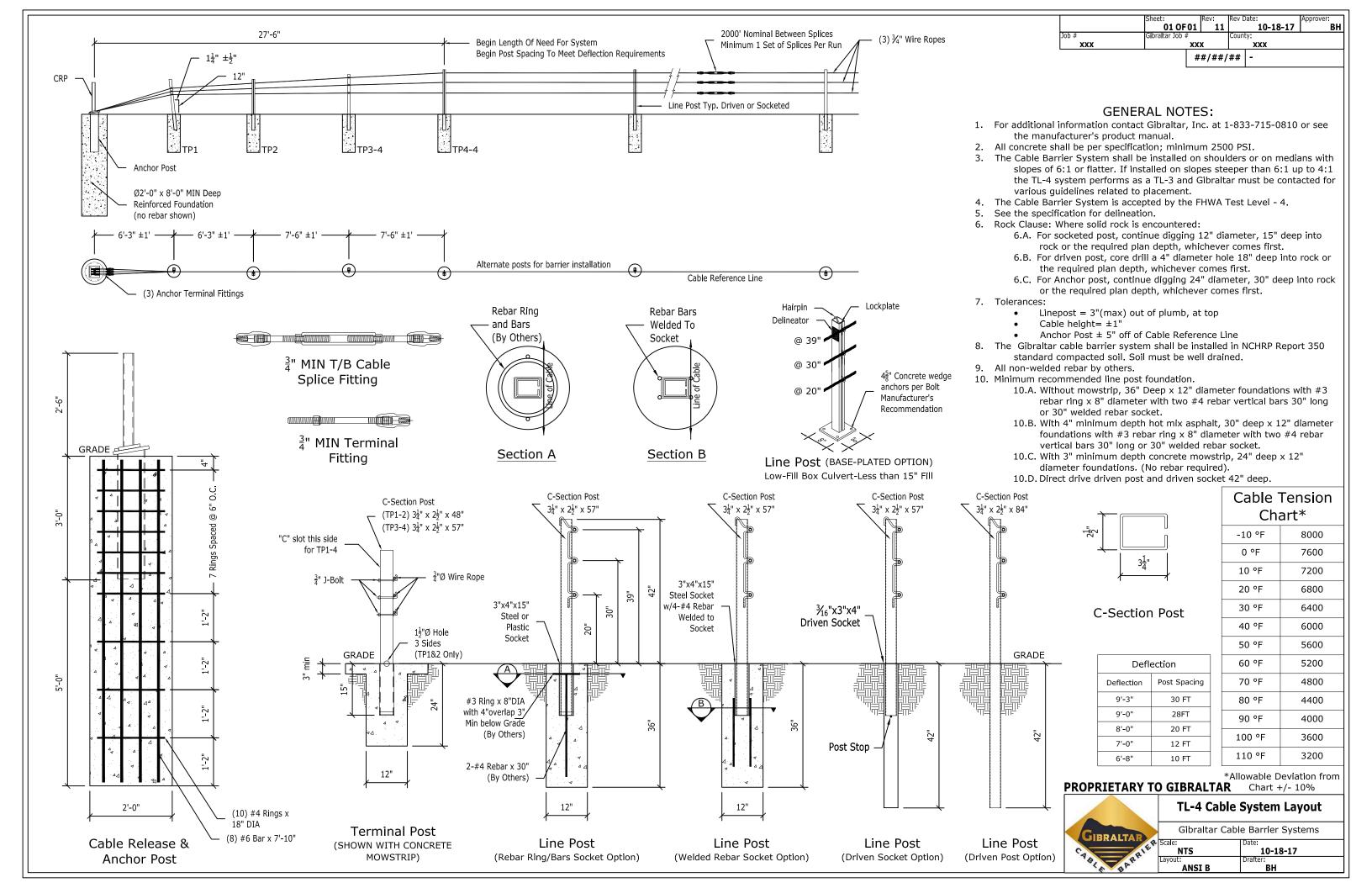
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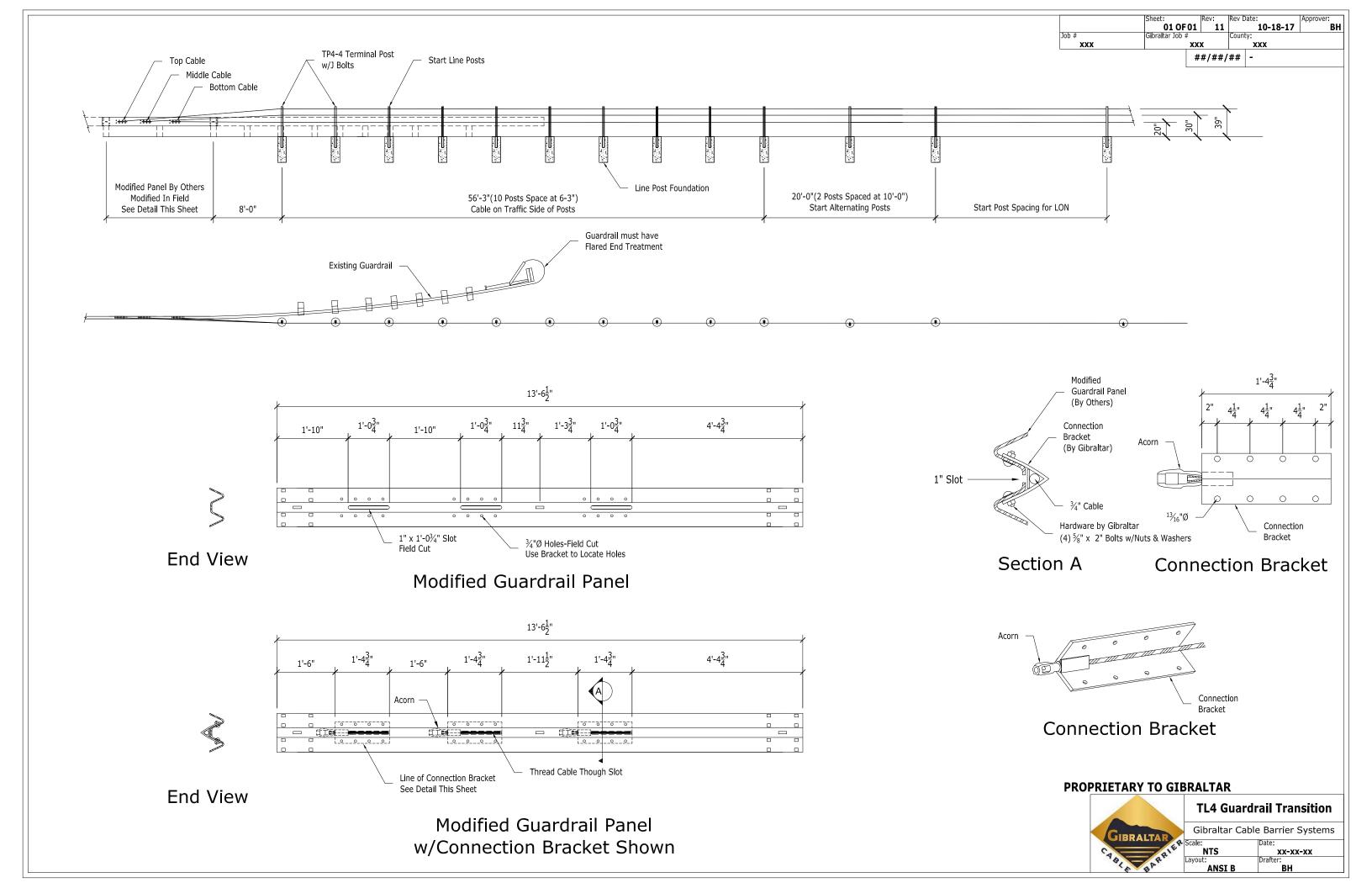
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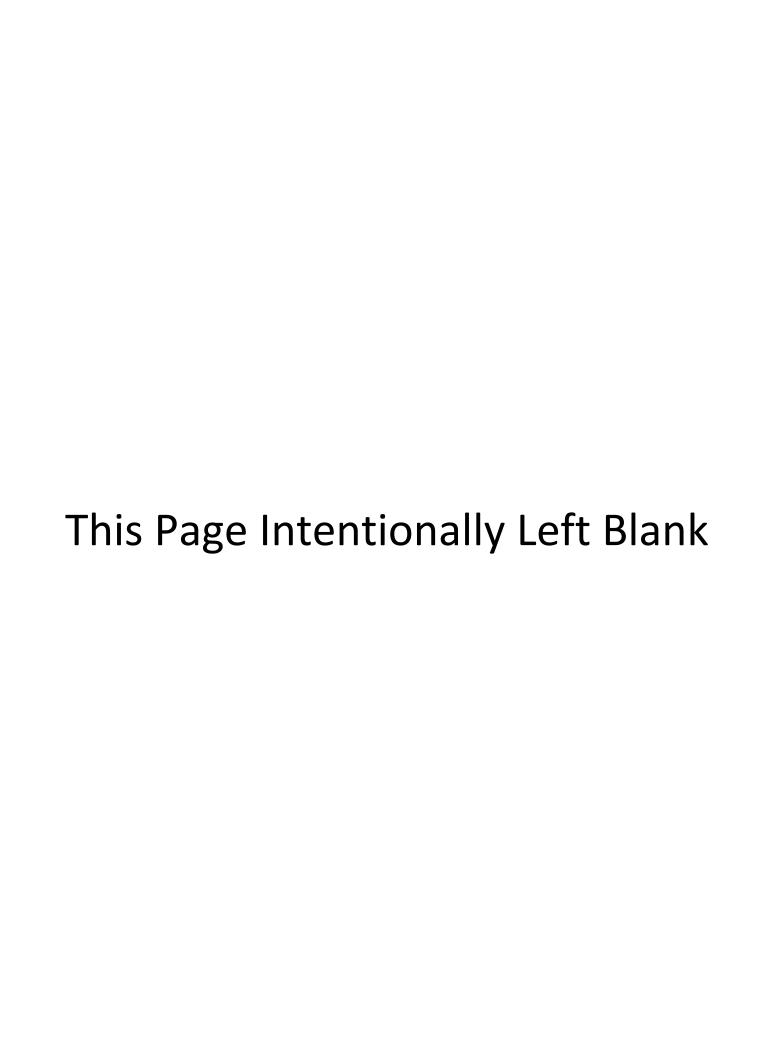
ORDER FORM

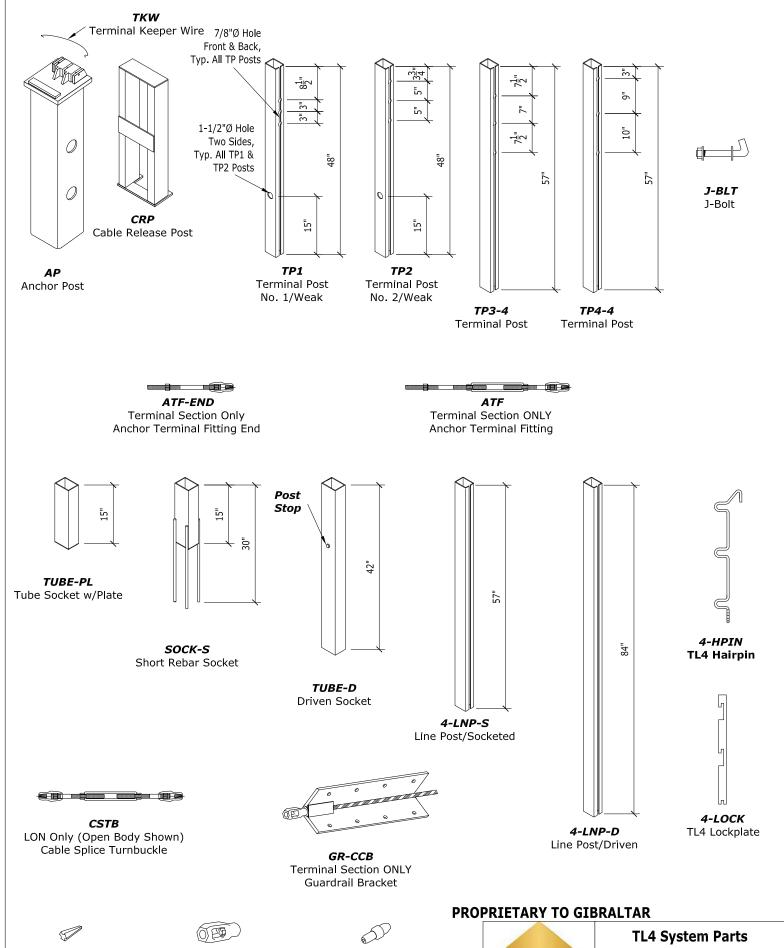
System Type: TL-3 with 1" fittings

	System Type: TL-3 with 1" fittings					
PART #	ITEM / (DESCRIPTION)	UN	T QUANTITY	EXTENDED AMT		
	LENGTH OF NEED PARTS					
3-HPIN	TL- Hairpin (7/16" x 24") *[See Note 1 below]	EA				
3-LOCK	TL-3 Lockplate Assembly (1/8"x 1 1/2" x 6' 5/8")	EA				
U-LOCK	Ubolt Lockplate Assembly (consists of Lockplate and 3 ubolts)	SE	•			
3-LNP-S	TL-3 Line Post / Socketed (2.5" x 3.25" x 48")	EA				
3-LNP-D	TL-3 Line Post / Driven (2.5" x 3.25" x 75"	EA				
	TERMINAL PARTS					
3-TERM	Terminal Section (Complete Unit)	UNI	Т			
J-BLT	J-Bolt (3/4" -J-Bolt)	EA				
TP1	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA				
TP2	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA				
TP3/4-3	Terminal Post No.3 & No.4 / Standard (2.5" x 3.25" x 4'0")	EA				
CRP -1"	Cable Release Post	EA				
AP-1"	Anchor Post	EA				
ATF-1"	Anchor Terminal Fitting (1"" x 30")	EA				
ATF-End-1"	Anchor Terminal Fitting End - 18" x 1" Rod with Acorn	EA				
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA				
	DUAL UNIT PARTS					
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF				
SOCK-S	30" Socket 4" x 3" -15" long W/ (4) 20" bars	EA				
SOCK-L	42" Socket 4" x 3" -15" long W/ (4) 32" bars	EA				
TUBE-PL	15" Tube Socket 4" x 3" with welded plate	EA				
TUBE-D	42" Driven Socket 4" x 3" with Rod at 15"	EA				
CSTB-1"	Cable Splice Turnbuckle (1" x 24")	EA				
TORP	"Torpedo" Splice	EA				
ACORN	Acorn	EA				
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA				
EXCL-CAP	Excluder Cap	EA				
CAP	Post Cap Sleeve	EA				
T-MTR	Tension Meter	EA				
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.		PARTS TOTAL			
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPPING & HANDLING				
	(unless remnant pieces are available).		ORDER TOTAL			











WEDGE

W-1 Wedge



Gibraltar Cable Barriers Burnet, TX Toll Free: 833-715-0810 Office: 512-715-0808 Fax: 512-715-0811

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ORDER FORM

System Type: TL 4 with 3/4" Fittings

PART #	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
4-HPIN	TL-4 Hairpin (7/16" x26") *[See Note 1 below]	EA		
4-LOCK	TL-4 Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA		
U-LOCK	U-Bolt Lockplate Assembly (Constist of Lockplate and 3 U-blts)	SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 57")	EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 84")	EA		
	TERMINAL PARTS			
4-TERM	Terminal Section (Complete Unit)	UNIT		
J-BLT	J-Bolt (3/4" J-Bolt)	EA		
TP1	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3-4	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA		
TP4-4	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA		
CRP-1"	Cable Release Post	EA		
AP-1"	Anchor Post	EA		
ATF	Anchor Terminal Fitting (3/4" x 30")	EA		
ATF-End	Anchor Terminal Fitting End 1 18" x 3/4" Rod and Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF		
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32" bars	EA		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20" bars	EA		
TUBE-PL	15" Tube Socket 15" 4" x 3" with welded plate	EA		
TUBE-D	42" Driven Socket 4" x 3" with Rod at 15"	EA		
CSTB	Cable Splice Turnbuckle	EA		
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap	EA		
T-MTR	Tension Meter	EA		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.		PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPPIN	IG & HANDLING	
	(unless remnant pieces are available).	-	ORDER TOTAL	



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ORDER FORM

System Type: TL 4 with 1" Fittings

System Type: TL 4 with 1" Fittings					
PART #	ITEM / (DESCRIPTION)		UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS				
4-HPIN	TL-4 Hairpin (7/16" x26") *[See Note 1 below]		EA		
4-LOCK	TL-4 Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]		EA		
U-LOCK	U-Bolt Lockplate Assembly (Constist of Lockplate and 3 U-blts)		SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 57")		EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 84")		EA		
	TERMINAL PARTS				
4-TERM	Terminal Section (Complete Unit)	ι	UNIT		
J-BLT	J-Bolt (3/4" J-Bolt)		EA		
TP1	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")		EA		
TP2	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")		EA		
TP3-4	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")		EA		
TP4-4	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")		EA		
CRP-1"	Cable Release Post		EA		
AP-1"	Anchor Post		EA		
ATF-1"	Anchor Terminal Fitting (1" x 30")		EA		
ATF-End 1"	Anchor Terminal Fitting End 1 18" x 1" Rod and Acorn		EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)		EA		
	DUAL UNIT PARTS				
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]		LF		
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32" bars		EA		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20" bars		EA		
TUBE-PL	15" Tube Socket 15" 4" x 3" with welded plate		EA		
TUBE-D	42" Driven Socket 4" x 3" with Rod at 15"		EA		
CSTB-1"	Cable Splice Turnbuckle		EA		
TORP	"Torpedo" Splice		EA		
ACORN	Acorn		EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White		EA		
EXCL-CAP	Excluder Cap		EA		
CAP	Post Cap		EA		
T-MTR	Tension Meter		EA		
		<u> </u>	<u> </u>		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.			PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SI	HIPPIN	G & HANDLING	
	(unless remnant pieces are available).			ORDER TOTAL	



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ORDER FORM

System Type: TL 4 1" Closed Body Fittings

PART#	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
4-HPIN	TL-4 Hairpin (7/16" x26") *[See Note 1 below]	EA		
4-LOCK	TL-4 Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA		
U-LOCK	U-Bolt Lockplate Assembly (Consists of lockplate and 3 U-blts)	SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 4'9")	EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 7'0")	EA		
	TERMINAL PARTS			
4-TERM	Terminal Section (Complete Unit)	UNIT		
J-BLT	J-Bolt (3/4" J-Bolt)	EA		
TP1	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3-4	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA		
TP4-4	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA		
CRP-1"	Cable Release Post	EA		
AP-1"	Anchor Post	EA		
ATF-1" CB	Anchor Terminal Fitting (1" x 30") Closed Body	EA		
ATF-End 1"	Anchor Terminal Fitting End 1 18" x 1" Rod and Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20"bars	EA		
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32"bars	EA		
TUBE-PL	15" Socket 4" x 3" - 15" long w/o rebar	EA		
TUBE-D	42" Driven Tube 4" x 3" with Rod at 15"	EA		
CSTB-1"CB	Cable Splice Turnbuckle-Closed Body	EA		
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap	EA		
T-MTR	Tension Meter	EA		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.		PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPF	ING & HANDLING	
	(unless remnant pieces are available).		ORDER TOTAL	



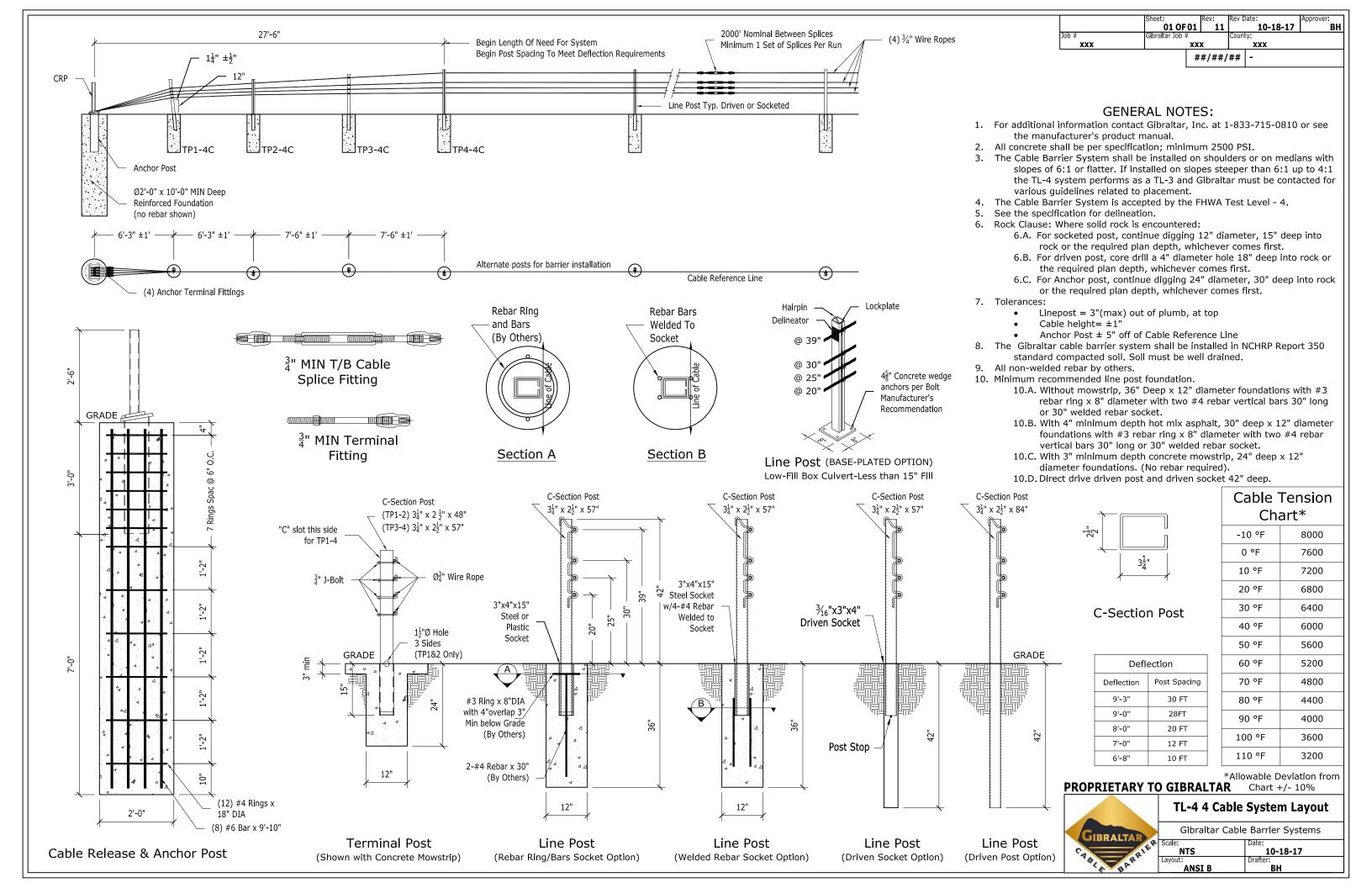
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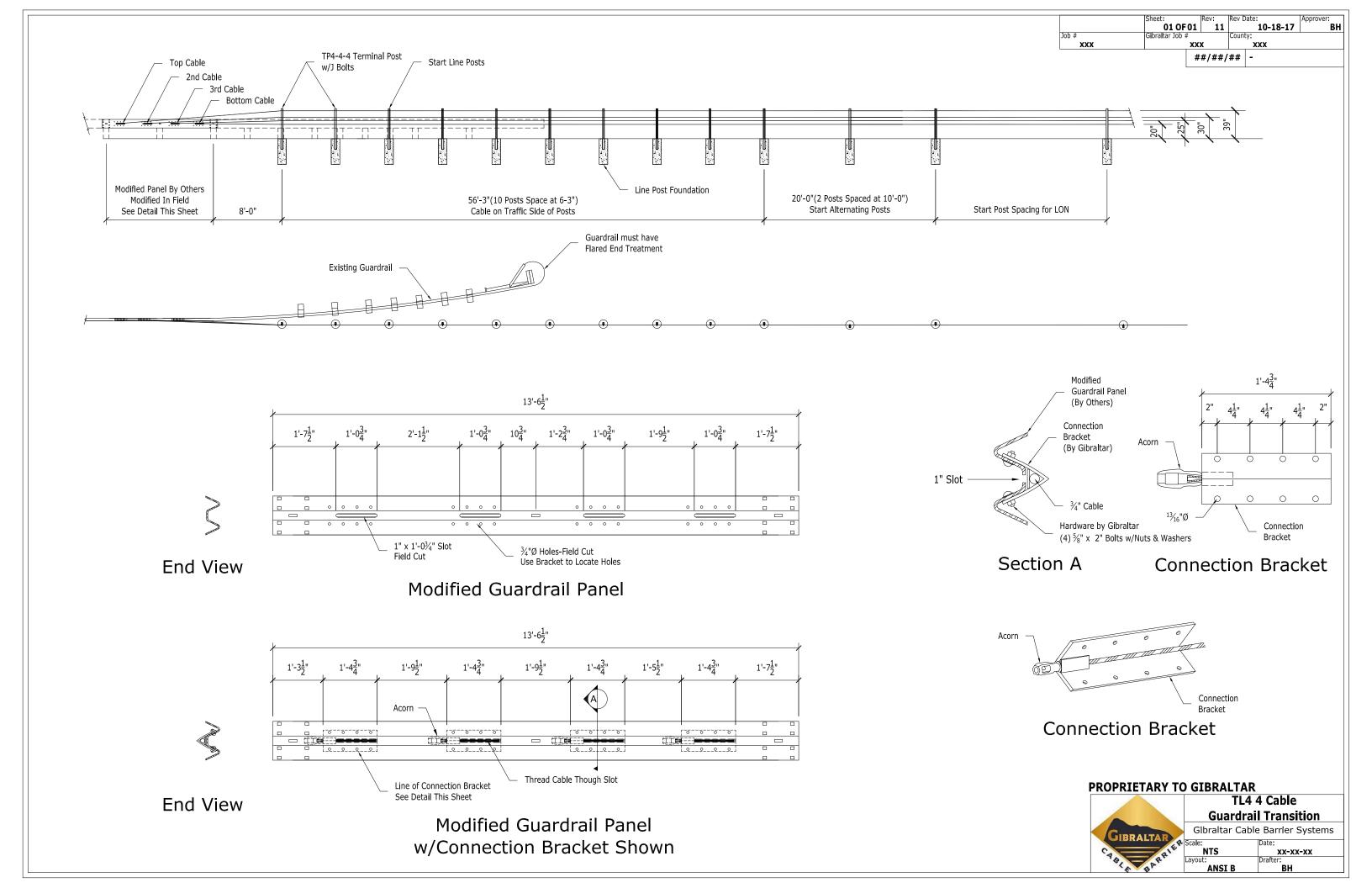
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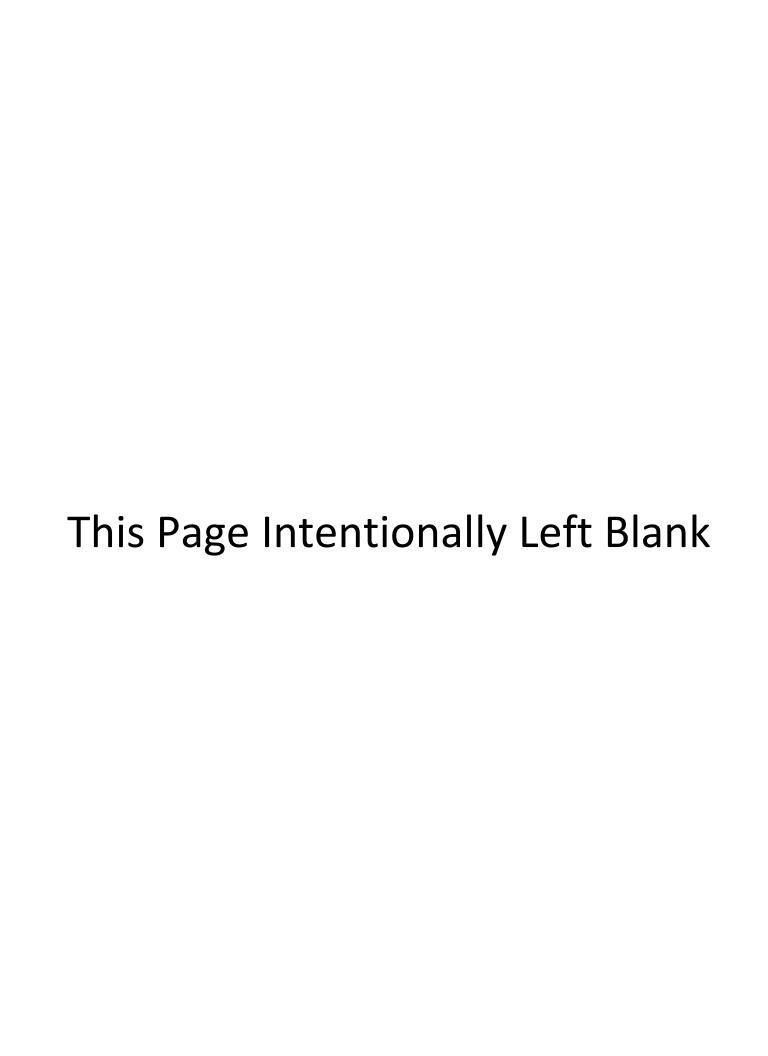
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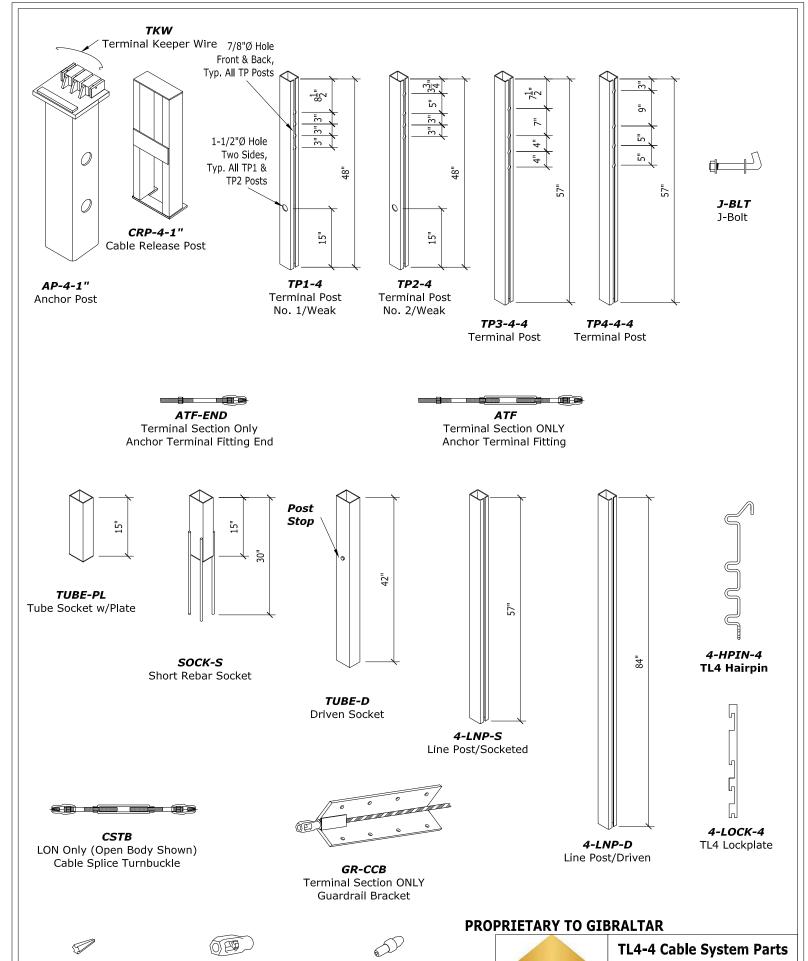
System Type: TL 4 with Swaged 1" Fittings

PART#	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
4-HPIN	TL-4 Hairpin (7/16" x26") *[See Note 1 below]	EA		
4-LOCK	TL-4 Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA		
U-LOCK	U-Bolt Lockplate Assembly (Constist of Lockplate and 3 U-blts)	SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 57")	EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 84")	EA		
	TERMINAL PARTS			
4-TERM	Terminal Section (Complete Unit)	UNIT		
J-BLT	J-Bolt (3/4" J-Bolt)	EA		
TP1	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3-4	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA		
TP4-4	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA		
CRP-1"	Cable Release Post	EA		
AP-1"	Anchor Post	EA		
Wedge Lock	Cable End Wedge Connection - 13" x 1" Rod and Acorn	EA		
ATF-End 1"	Anchor Terminal Fitting End 1 18" x 1" Rod and Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-2SF	Pre-stretched Cable - 1,000 ft sections swaged at both ends	LF		
CBL-1SF	Pre-stretched Cable - 1,000 ft sections swaged at one ends			
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32" bars	EA		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20" bars	EA		
TUBE-PL	15" Tube Socket 15" 4" x 3" with welded plate	EA		
TUBE-D	42" Driven Socket 4" x 3" with Rod at 15"	EA		
CSTB-1" CB	Cable Splice Turnbuckle with Closed Body	EA		
CSTB-1" Body	Cable Turnbuckle Body Only - Closed			
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap	EA		
T-MTR	Tension Meter	EA		
			D 4 DTC = C=	
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.		PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPPING	G & HANDLING	
	(unless remnant pieces are available).		ORDER TOTAL	









WEDGE **TORP** Gibraltar Cable Barrier Systems **ACORN** W-1 Wedge Longitudinal Section ONLY Acorn w/ Wedge Torpedo Cable Splice 10-18-17 Layout: ANSI B

ВН



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System Type: TL 4 4 Cable 3/4"Fittings

PART#	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
4-HPIN-4	TL-4 4 Cable Hairpin (7/16" x26") *[See Note 1 below]	EA		
4-LOCK -4	TL-4 4 Cable Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA		
U-LOCK	U-Bolt Lockplate Assembly (Consists of lockplate and 4 U-blts)	SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 4'9")	EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 7'0")	EA		
	TERMINAL PARTS			
4-TERM	Terminal Section (Complete Unit)	UNIT		
J-BLT	J-Bolt (3/4" J-Bolt)	EA		
TP1-4C	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2-4C	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3-4-4C	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA		
TP4-4-4C	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA		
CRP-4-1"	Cable Release Post -4 Cable	EA		
AP-4-1"	Anchor Post - 4 Cable	EA		
ATF	Anchor Terminal Fitting (3/4" x 30")	EA		
ATF-End	Anchor Terminal Fitting End - 18" x 3/4" Rod and Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20"bars	EA		
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32"bars	EA		
TUBE-PL	15" Socket 4" x 3" - 15" long w/o rebar	EA		
TUBE-D	42" Driven Tube 4" x 3" with Rod at 15"	EA		
CSTB	Cable Splice Turnbuckle	EA		
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap	EA		
T-MTR	Tension Meter	EA		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.		PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPPII	NG & HANDLING	
	(unless remnant pieces are available).		ORDER TOTAL	



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ORDER FORM

System Type: TL 4 4 Cable 1"Fittings

	System Type: TL 4 4 Cable 1"Fittings		1	
PART #	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
4-HPIN-4	TL-4 4 Cable Hairpin (7/16" x26") *[See Note 1 below]	EA		
4-LOCK -4	TL-4 4 Cable Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA		
U-LOCK	U-Bolt Lockplate Assembly (Consists of lockplate and 4 U-blts)	SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 4'9")	EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 7'0")	EA		
	TERMINAL PARTS			
4-TERM	Terminal Section (Complete Unit)	UNIT	•	
J-BLT	J-Bolt (3/4" J-Bolt)	EA		
TP1-4C	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2-4C	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3-4-4C	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA		
TP4-4-4C	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA		
CRP-4-1"	Cable Release Post -4 Cable	EA		
AP-4-1"	Anchor Post - 4 Cable	EA		
ATF-1"	Anchor Terminal Fitting (1" x 30")	EA		
ATF-End 1"	Anchor Terminal Fitting End - 18" x 1" Rod and Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20"bars	EA		
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32"bars	EA		
TUBE-PL	15" Socket 4" x 3" - 15" long w/o rebar	EA		
TUBE-D	42" Driven Tube 4" x 3" with Rod at 15"	EA		
CSTB-1"	Cable Splice Turnbuckle	EA		
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap	EA		
T-MTR	Tension Meter	EA		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.	-	PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPP	ING & HANDLING	
	(unless remnant pieces are available).	ORDER TOTAL		



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ORDER FORM

System Type: TL 4 4 Cable 1" Closed Body Fittings

PART #	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT
	LENGTH OF NEED PARTS			
4-HPIN-4	TL-4 4 Cable Hairpin (7/16" x26") *[See Note 1 below]	EA		
4-LOCK -4	TL-4 4 Cable Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA		
U-LOCK	U-Bolt Lockplate Assembly (Consists of lockplate and 4 U-blts)	SET		
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 4'9")	EA		
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 7'0")	EA		
	TERMINAL PARTS			
4-TERM	Terminal Section (Complete Unit)	UNIT		
J-BLT	J-Bolt (3/4" J-Bolt)	EA		
TP1-4C	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA		
TP2-4C	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA		
TP3-4-4C	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA		
TP4-4-4C	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA		
CRP-4-1"	Cable Release Post -4 Cable	EA		
AP-4-1"	Anchor Post - 4 Cable	EA		
ATF-1"CB	Anchor Terminal Fitting (1" x 30") Closed Body	EA		
ATF-End 1"	Anchor Terminal Fitting End - 18" x 1" Rod and Acorn	EA		
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA		
	DUAL UNIT PARTS			
CBL-PRE	Pre-stretched Cable (3/4" 3/7 Cable - 2,000 ft. Spool) *[See Note 2]	LF		
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20"bars	EA		
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32"bars	EA		
TUBE-PL	15" Socket 4" x 3" - 15" long w/o rebar	EA		
TUBE-D	42" Driven Tube 4" x 3" with Rod at 15"	EA		
CSTB-1"CB	Cable Splice Turnbuckle-Closed Body	EA		
TORP	"Torpedo" Splice	EA		
ACORN	Acorn	EA		
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA		
EXCL-CAP	Excluder Cap	EA		
CAP	Post Cap	EA		
T-MTR	Tension Meter	EA		
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.	•	PARTS TOTAL	
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPPING & HANDLING		
	(unless remnant pieces are available).		ORDER TOTAL	



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System Type: TL 4 4 Cable Swaged

	System Type: TL 4 4 Cable Swaged					
PART #	ITEM / (DESCRIPTION)	UNIT	QUANTITY	EXTENDED AMT		
	LENGTH OF NEED PARTS					
4-HPIN-4	TL-4 4 Cable Hairpin (7/16" x26") *[See Note 1 below]	EA				
4-LOCK -4	TL-4 4 Cable Lockplate (1/8" x 1 1/2" x 21 3/8") *[See Note 1]	EA				
U-LOCK	U-Bolt Lockplate Assembly (Consists of lockplate and 4 U-blts)	SET				
4-LNP-S	TL-4 Line Post / Socketed (2.5" x 3.25" x 4'9")	EA				
4-LNP-D	TL-4 Line Post / Driven (2.5" x 3.25" x 7'0")	EA				
	TERMINAL PARTS					
4-TERM	Terminal Section (Complete Unit)	UNIT				
J-BLT	J-Bolt (3/4" J-Bolt)	EA				
TP1-4C	Terminal Post No.1/ Weak (2.5" x 3.25" x 4'0")	EA				
TP2-4C	Terminal Post No.2/ Weak (2.5" x 3.25" x 4'0")	EA				
TP3-4-4C	Terminal Post No.3/ Standard (2.5" x 3.25" x 4'9")	EA				
TP4-4-4C	Terminal Post No.4/ Standard (2.5" x 3.25" x 4'9")	EA				
CRP-4-1"	Cable Release Post -4 Cable	EA				
AP-4-1"	Anchor Post - 4 Cable	EA				
Wedge Lock	Cable End Wedge Connection - 13" x 1" Rod and Acorn	EA				
ATF-End 1"	Anchor Terminal Fitting End - 18" x 1" Rod and Acorn	EA				
TKW	Terminal Keeper Wire (12-Ga.x 12" long)	EA				
	DUAL UNIT PARTS					
CBL-2SF	Pre-stretched Cable - 1,000 ft sections swaged at both ends	LF				
CBL-1SF	Pre-stretched Cable - 1,000 ft sections swaged at one end	EA				
SOCK-S	15" Socket 4" x 3" - 15" long w/ (4) 20"bars	EA				
SOCK-L	15" Socket 4" x 3" - 15" long w/ (4) 32"bars	EA				
TUBE-PL	15" Socket 4" x 3" - 15" long w/o rebar	EA				
TUBE-D	42" Driven Tube 4" x 3" with Rod at 15"	EA				
CSTB-1"-CB	Cable Splice Turnbuckle with Closed Body	EA				
CSTB-1" Body	Cable Turnbuckle Body Only - Closed	EA				
TORP	"Torpedo" Splice	EA				
ACORN	Acorn	EA				
DLN	Delineator / Reflective Object Marker - Specify Yellow or White	EA				
EXCL-CAP	Excluder Cap	EA				
CAP	Post Cap	EA				
T-MTR	Tension Meter	EA				
		I	<u> </u>			
NOTE-1	Minimum order of 30 Hairpins/30 Lockplates required.		PARTS TOTAL			
NOTE-2	Cable sold as a complete spool(2,000') only,	SHIPPIN	NG & HANDLING			
	(unless remnant pieces are available).		ORDER TOTAL			



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P/ONumber:	County:	State:		
Point ofContact:	C	CompanyName:		
ContactNumber:	ContactFax:			
Shipping Address:		Billing Address:		
Co.PhoneNumber		Co.PhoneNumber:		
: Co.FaxNumber:		Co.FaxNumber:		
Co.Email:		Co.Email:		

**** COMPLETE THE ENCLOSED ORDER FORM AND RETURN <u>BOTH</u>PAGES
TO OUR OFFICE FOR PROCESSING ****

For any questions on placing your order, contact John Jansen at 833-715-0810

*****Prices do not include Shipping and Handling Charges*****

Version: [3.04] Updated: [Jan 2018]

Cable Tensioning Chart

The cable shall be tensioned immediately after initial installation. Tension shall be rechecked and adjusted, if necessary, at least three to five days after initial tensioning on cable system. A tension log form shall be completed showing the time, date, location, temperature and final tension reading, signed by the person performing the tensioning, and furnished to the engineer upon completion of the work. This form shall also include the system manufacturer's recommended tension chart.

DATE	TIME	LOCATION	AMBIENT TEMPERATURE	INITIAL TENSION READING	FINAL TENSION READING	SIGNATURE



Best Practices to Remove Vehicles from the Cable Barrier System

- Use caution and best judgment when approaching a hit where the vehicle is still engaged with the cables, there could be an unstable situation with the cable.
- Keep "non emergency" personnel away from the cable system
- Methods to release tension in the system
 - If not deeply entangled, go upstream and downstream of the accident for 75' to 100' removing lock plates and hairpins to release cables (cables are not attached to the posts) until the weight of the cable overcomes the tension introducing some additional slack and eventually allowing the cables to lie on the ground.
 - Go to the anchor unit and release the tension by pushing over the Cable Release Post with a vehicle bumper, making sure all personnel stand clear of the anchor section.
 - Go upstream or downstream to the nearest cable splice turnbuckle, which are spaced approximately 1000 ft. apart and loosen them a few turns. You will need two crescent wrenches and a long screwdriver/long bar, the longer the wrench the better the leverage.
- Methods to release the vehicle
 - If a vehicle is "entangled" in the cables, first pull the vehicle back towards the centerline of the cable barrier to take out the lateral force of the cable, and then pull the vehicle out the same way it entered.
 - A tow truck should be able to lift most vehicles off the cables if the vehicle happens to end up "straddling" a cable.
- Only cut a turnbuckle body or cable if it is a life or death situation and the car needs to be removed immediately.
 - Ask all on-lookers and non-essential personnel to stand clear of the system to prevent injuries from backlash when cutting. Because of the cable's weight (1 pound/ft), the cable should fall down as it retracts.
 - Ensure that no one is holding the cables near a post as their hand could be pinched upon cutting the cable.
 - Cut the turnbuckle body or cable in between two line posts, 250 to 300 feet away from the vehicle and perpendicular to the cable system.

*** Knocking over the Cable Release Post or cutting a turnbuckle/cable will cause the entire system, from anchor to anchor, to be disabled. Until the system is repaired, the system will lose **all** of its effectiveness to prevent any future accidents and it may allow the next vehicle to get through the system and into oncoming traffic. ***

If you have any questions about the system during an accident, contact Gibraltar Cable Barrier Systems at 833-715-0810 and ask for Jay Winn, Bryan Hoefling or Ron Faulkenberry.

Version: [6.1]