



ARMADA TOWNSHIP ZONING BOARD OF APPEALS

23121 E. MAIN STREET, P.O. BOX 578
ARMADA, MICHIGAN 48005
PHONE: (586) 784-5200 FAX: (586) 784-5211
EMAIL: PLANNING@ARMADATWP.ORG

ZONING BOARD OF APPEALS

AGENDA

Thursday January 22, 2026, 7:00 p.m.

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL
4. APPROVE / AMEND AGENDA
5. APPROVAL OF MINUTES:
 - a. **Meeting Minutes of September 10, 2025**
6. PUBLIC HEARING:
 - a. **Armada Agricultural Society-** 23955 Main St Parcel # 13-02-24-126-039. Variance from Section 2.14 Fences, Walls, and other Protective Barriers, subsection 2 B. and C. of the Armada Township Zoning Ordinance to install a 6' cyclone style fence with barbed wire topping.
7. NEW BUSINESS:
 - a. **Armada Agricultural Society-** 23955 Main St Parcel # 13-02-24-126-039. Variance from Section 2.14 Fences, Walls, and other Protective Barriers, subsection 2 B. and C. of the Armada Township Zoning Ordinance to install a 6' cyclone style fence with barbed wire topping.
8. PUBLIC COMMENTS
9. ADJOURNMENT



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Zoning Board of Appeals Wednesday September 10th, 2025, 7:30 PM Minutes

1. **Call to Order-** Kehrig called the meeting to order at 7:30 p.m.
2. **Pledge of Allegiance-** Kehrig led the pledge of Allegiance.
3. **Roll Call-** Members present at roll call- Kehrig, DeCock, Grand, and Goetzinger. Absent-Xagoraris. Also, present was Recording Secretary Bailey.
4. **Approve/Amend Agenda-** Motion by DeCock, 2nd by Grand to approve the agenda as presented. **All Ayes- Motion Carried**
5. **Approval of Minutes-** Motion by Goetzinger, 2nd by DeCock to approve the minutes of June 4th, 2025, as presented. **All Ayes- Motion Carried**
6. **Public Hearing**
 - a. Romeo Rabbit Rescue 21850 McPhall Rd (13-02-11-100-001) Variance from the required paved driveway and parking lot from Section 6.03 subsection E of the Armada Township Zoning Ordinance. Motion by DeCock, 2nd by Goetzinger to open the public hearing at 7:33 pm. Kehrig went over the public hearing procedures and the notification to neighbors and that it was published in the newspaper. Robin Silas 21850 McPhall rd. spoke about the rescue, and that the gravel driveway and parking lot will be consistent with the community and they have obtained a culvert permit from Macomb County. Tracey Jones 21770 McPhall rd. supports the rescue and gravel driveway. Kehrig read an email from John Depauw, Irwin Rd, opposing the variance request. Motion by Goetzinger, 2nd by Grand to close the public hearing at 7:40 pm. **All Ayes-Motion Carried**
7. **New Business**
 - a. Romeo Rabbit Rescue 21850 McPhall Rd (13-02-11-100-001) Variance from the required paved driveway and parking lot from Section 6.03 subsection E of the Armada Township Zoning Ordinance. Kehrig read section 6.03 subsection E of the zoning ordinance. Kehrig explained the 5 standards for granting a variance. Discussion took place on whether these were met. The rescue will have low traffic and is a small operation. Most property owners have gravel driveways so it would be consistent with surrounding properties. A paved parking lot

and driveway would stand out. Not all the standards necessarily apply to this situation. DeCock asked about a financial hardship for not having a paved driveway and parking lot. Kehrig stated it is not practical for this non-profit and it is more for bigger operations on paved roads. Motion by Grand, 2nd by Goetzing to approve the variance from the required paved driveway and parking lot from Section 6.03 subsection E of the Armada Township Zoning Ordinance for Romeo Rabbit Rescue located at 21850 McPhall Rd (13-02-11-100-001) to maintain the uniformity of the surrounding properties and per the planning commission approved site plan.

Ayes- Kehrig, Goetzing, Grand

Nays- DeCock

DeCock felt the applicant did not meet the requirements for a variance.

Motion Carried

8. **Public Comments-** None

9. **Adjournment-** Motion by Goetzing, 2nd by Grand to adjourn the meeting at 8:13 p.m.

All Ayes- Motion Carried

Respectfully
submitted: Michelle
Bailey Recording
Secretary

Approved:

DJ Kehrig, Chairperson

Date

PUBLIC NOTICE

ARMADA TOWNSHIP ZONING BOARD OF APPEALS

NOTICE OF PUBLIC HEARING

The Armada Township Zoning Board of Appeals will hold a public hearing on January 22, 2026, at 7:00 P.M. at the Armada Township Hall, 23121 E. Main St, Armada, MI 48005.

The purpose of the hearing is to receive public comments on a request for a variance from Section 2.14 Fences, Walls, and other Protective Barriers, subsection 2 B. and C. of the Armada Township Zoning Ordinance to install a 6' cyclone style fence with barbed wire topping at the property located at 23955 Main St Parcel # 13-02-24-126-039, owned by the Armada Agricultural Society. The parcel is zoned RM Moderate Family Residential and is 6.36 acres.

Copies of the application may be examined at the Armada Township Hall Offices, 23121 E. Main St, Armada, MI 48005, Monday-Thursday, 9:00 AM-4:00 PM until January 22, 2026.

Written comments may be addressed to the Zoning Board of Appeals at the Township Hall (23121 E. Main Street, Armada MI 48005), call 586-784-5200 with questions or email comments to planning@armadatwp.org until January 22, 2026, at 4pm. Oral comments will be taken during the hearing on January 22, 2026.

Michelle Bailey

Armada Township Planning and Zoning Administrator

Publish: 1/7/2026

Tax ID	OWNER	PROP ADDRESS LINE 1	PROP ADDRESS LIN	ownerpropertycombin	ownerCityStateZip
02-24-126-	ARMADA AGRICULTURAL SOCIETY	ARMADA CENTER RD	,		
02-24-126-	ARMADA AGRICULTURAL SOCIETY	ARMADA RIDGE RD	ARMADA, MI 48005	74280 FAIR ST PO BO	ARMADA MI 48005
02-24-126-	ARMADA AGRICULTURAL SOCIETY	FAIR ST	ARMADA,		
02-24-201-	JAVA LAND DEVELOPMENT LLC	ARMADA RIDGE RD	ARMADA, MI 48005	59125 ELIZABETH LAN	RAY MI 48096
02-24-126-	ENGLISH, ESTHER	23955 MAIN ST	ARMADA, MI 48005	23955 MAIN ST	ARMADA MI 48005
02-24-251-	ST MARY MYSTICAL ROSE PARISH	24040 ARMADA RIDGE RD	ARMADA, MI 48005	12 STATE ST	DETROIT MI 48226
02-24-126-	BORK, DONALD & CAROL	23675 MAIN ST	ARMADA, MI 48005	23675 MAIN ST	ARMADA MI 48005
02-24-178-	TIMMERMAN, THOMAS & CONSTANCE	74200 MADISON ST	ARMADA, MI 48005	74200 MADISON ST	ARMADA MI 48005
02-24-177-	KIEWICZ, TIMOTHY & V. ROGERS-HANEY	74199 MADISON ST	ARMADA, MI 48005	74199 MADISON	ARMADA MI 48005
02-24-177-	SCHOMMER, JAMES & MICHELLE	23810 MAIN ST	ARMADA, MI 48005	23810 MAIN ST	ARMADA MI 48005
02-24-177-	HARMONY, WILLIAM & SANDRA	23790 MAIN ST	ARMADA, MI 48005	23790 MAIN ST	ARMADA MI 48005
02-24-176-	SPINELLA, GAIL	23770 MAIN ST	ARMADA, MI 48005	P.O. BOX 254	ARMADA MI 48005
02-24-176-	KANEHL, KEVIN	23732 MAIN ST	ARMADA, MI 48005	23732 MAIN ST	ARMADA MI 48005
02-24-176-	LANGELIER-REEVES, NICHOLAS	23700 MAIN ST	ARMADA, MI 48005	23700 MAIN ST	ARMADA MI 48005
02-24-177-	MIELA, THOMAS & BEVERLY	74167 MADISON ST	ARMADA, MI 48005	74167 MADISON ST	ARMADA MI 48005
02-24-177-	SMITH, JUDITH	74135 MADISON ST	ARMADA, MI 48005	74135 MADISON ST	ARMADA MI 48005
02-24-177-	SCHAEFER, NICHOLAS	74094 JEFFERSON LN	ARMADA, MI 48005	74094 JEFFERSON LN	ARMADA MI 48005
02-24-177-	YOUNG, TIMOTHY & SARA	74080 JEFFERSON LN	ARMADA, MI 48005	74080 JEFFERSON LN	ARMADA MI 48005
02-24-178-	VENTIMIGLIA, JACK & MARCIA	74100 MADISON ST	ARMADA, MI 48005	74100 MADISON ST	ARMADA MI 48005
02-24-177-	CARLSON, MARK	74103 MADISON ST	ARMADA, MI 48005	74103 MADISON ST	ARMADA MI 48005
02-24-177-	GUSTAFSON, KAREN	74087 JEFFERSON LN	ARMADA, MI 48005	74087 JEFFERSON LN	ARMADA MI 48005
02-24-178-	GIELNIAK, TAMMY	74168 MADISON ST	ARMADA, MI 48005	74168 MADISON ST	ARMADA MI 48005
02-24-178-	KLAPATCH, KAREN R.	74138 MADISON ST	ARMADA, MI 48005	74138 MADISON ST	ARMADA MI 48005



Armada Township – Macomb County – Michigan
23121 East Main Street, Armada, MI 48005

Zoning Board of Appeals Application # _____

This section for the applicant to fill in: **The facts presented below are true and correct to the best of my knowledge

I/we ARMADA AGRICULTURAL SOCIETY (ARMADA FARM) of 74280 FERRIS ST
Name Address

Hereby appeal to the Zoning Board of Appeals, the rulings of:

() Zoning Ordinance () Inspector () Township Board

If ruling was made by inspector and/or township board, include the date of the ruling: _____
Address of property involved: 23955 MAIN ST ARMADA MI 48005
Legal description: 13-02-24-126-039
Zoning of property: RM
Current use of property: PRESIDENTIAL

Provisions of the zoning ordinance appealed. Indicate the article, section, subsection and page number of the zoning ordinance being appealed. Do not quote the ordinance: ORDINANCE COVERING SECURITY TYPE FENCING AROUND PROPERTY

Type of Appeal – Appeal is made herewith for:

- () A variance from the zoning ordinance
- () A temporary use permit
- () An interpretation of the zoning ordinance

This appeal is made for the following reasons: NOT FINDING AN ORDINANCE FOR SECURITY FENCING INSTALLED

Submission Requirements:

Please provide a detailed, scaled plot plan and elevation drawings showing the nature of the variance request, including, but not limited to: property boundaries, existing and proposed buildings and structures with dimensions to property lines, the height of all proposed structures, and show and label abutting street(s). The requested variance(s) should also be notes on the plot plan. **Please note:** This application and supporting documentation must be filed in triplicate.

The following sections are for the Zoning Board of Appeals and Armada Township use only

At a meeting of the Zoning Board of Appeals/Township Board held on this date: _____

The above described appeal was considered and the request was: () Granted () Denied

For the following reasons: _____

Requested interpretation: _____

Zoning Board of Appeals Chairman/Township Supervisor: _____

Fee received _____	Received by _____
Site plan received _____	Affidavit received _____
Notices sent _____	Applicant notified _____
Notice published: _____	Name of paper _____

The Zoning Board of Appeals application shall be submitted by the applicant with this signed Affidavit explaining:

1. How the strict enforcement of the provisions of the Township Zoning Ordinance would cause practical difficulty and deprive the owner of rights enjoyed by all other property owners owning property within the same zoning district.

Property Needs To Have Security Fencing As it is Vacant Most of the Time. Curbside and Assets need to be secured As it is a Historic Structure with Much Local Inquisitive Interest.

2. The conditions and circumstances unique to the property, which are not similarly applicable to other properties in the same zoning districts.

Historic Residential Houses and Several Out Building which are iduse but not a secure Area as not being occupied currently but with plans for Historic Community Use

3. The conditions and circumstances unique to the property were not created by the owner, or his predecessor in title, within the time following the effective date of the provisions alleged to adversely affect such property.

No known Provision Found For Erecting Security Fencing to protect Historic Property in Township.

4. Why the requested variance will not confer special privileges that are denied other properties similarly situated and in the same zoning district.

Unknown

5. Why the requested variance will not be contrary to the spirit and intent of the zoning ordinance.

No Known Ordinance

The Zoning Board of Appeals/Township Board may attach conditions to the granting of the variance.

I (we), the undersigned, acknowledge that approval of a zoning variance by the township of Armada constitutes an agreement with the township and, that if a variance is granted, any conditions imposed by the township of Armada relative to the variance will be complied with.

Signature of applicant: _____ Date: / /

Print applicant's name here: _____ Phone Number: _____

Signature of property owner/s (if different from above): _____ Date: / /

Print name of property owner/s here: _____ Phone Number: _____

Email Address: _____



ARMADA FAIR

AUGUST 11 – 17, 2025

To: Armada Township Zoning Board of Appeals

11/18/25

From: Armada Agricultural Society (Armada Fair)

The Armada Agricultural Society recently purchased approximate 7 acres of property east of and adjacent to the existing Society property at 23955 Main St. The purchased property contains a designated Historic house and Barn as well as another smaller outbuilding. As the house was previously occupied by the owner, there was a safety concern for the elderly owner, as many outside parties have curious interest in the condition and contents of such a local historic icon. Since her passing and our subsequent purchase, the property has remained unoccupied but active as much work has been done to the outside of the property including certain security aspects, The contents of the home and barn remain as the day the previous owner passed with the provision the Armada Agricultural Society would maintain the Historic virtue of the home and homestead.

It has become a security issue that the Fair Board of Directors have taken to heart to protect and preserve the English/Pinkus family legacy and part of that responsibility is to protect the Homestead as needed. Therefore, the Fair Board is requesting a permit and approval for the installation of security fencing along the property boundaries as outlined on the attached map layout and fencing proposal.

The fence would be a professionally installed 6' cyclone style with barbed wire topping along the property borders with setbacks as required for roads and normal property lines. There would be a 24' rolling gate installed in a 20' set back approach at the house drive entrance at 23955 Main St. with a second 24' rolling gate that would replace a failing swinging gate approximately 260' west of the house driveway. The fencing would tie in directly with existing similar fencing bordering the fairgrounds property in both the village and township.

The Armada Agricultural Society Board of Directors is asking for the permit and approval as soon as possible so we may start construction in securing this most valuable community asset.

Armada Agricultural Society

74280 Fair Street P.O. Box 507, Armada, Michigan 48005

P: 586.784.5488 | F: 586.784.9723 | E: office@armadafair.org



ARMADA FAIR

AUGUST 11 – 17, 2025

Currently, ideas are being collected with a use plan and steering committee to be developed starting in 2026 as to the actual use of the residence, barn and property. Maintenance, upkeep, repairs and security are the current focus of attention.

Should there be any questions, please contact:

Mark Rayman, Treasurer at 586-719-1660

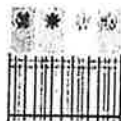
Thank you for your consideration.

The Armada Agricultural Society

Armada Agricultural Society

74280 Fair Street P.O. Box 507, Armada, Michigan 48005

P: 586.784.5488 | F: 586.784.9723 | E: office@armadafair.org



FOUR SEASONS
— FENCE, LLC —

13876 Gilbert Rd Allenton, MI 48005

Phone: 586-701-3505 | Email: rvenditti@fourseasonsfence.co

Website: www.fourseasonsfence.co

Contract Date: 10/20/2025

Name: Mark Raymond	Phone: 586.719.1660
Street Address: 74280 Fair St.	City, State, Zip: Birmingham, MI, 48009
Email: Treasurer@armadafair.org	County: Macomb

Job Name: Armada Fair Grounds

Scope Of Work:

- Provide and install approx. 1,450 LF of 72" 9ga 2" galvanized chain link fence. We will be using 2.5" ss40 line posts, 3" ss40 terminal posts, 4" ss40 gate posts. Terminal and line posts will be driven into the ground 48" for line posts and 60" for terminal posts, with all gate posts set in concrete footers. Top rail using 1-5/8" ss40 pipe will be installed along with bottom tension wire on this project. (2) 72"x24' steel cantilever gates are to be installed on this project. The cantilever gates will be fully dressed with chain link fabric for potential installation of gate operators at a later date.

ADD COST

- Add cost for the addition of 3 strands of 4pt aluminized barbwire to be attached to all gates and the entire new fence line being installed. This will need to be approved by the TWP and/or the City for installation of the barbwire.

I, customer, hereby agree to clear fence line(s) depicted above of all debris, brush, obstacles, etc. at least 2' on each side. Failure to do so will result in a minimum charge of \$5.00 per foot for clearing the fence line, payable upon completion.

FOUR SEASONS FENCE, LLC holds no responsibility for damaged sprinkler lines, gas barbecue lines, or any other such lines. It is the responsibility of the customer to mark where such lines are.

CANCELLATIONS/DEPOSITS: There is a non-refundable deposit fee of 30% due before material is ordered. Materials for the job will not be ordered until a deposit fee is paid. You may cancel the job after the deposit is made, however, you will not receive the deposit back. You may not cancel a job after the job is started or completed.

Price is subject to review depending on the style and options chosen for the vertical lift gate.

TERMS AND CONDITIONS


1. The Seller agrees to construct the fence according to the proposals set forth on the front hereof and the Buyer agrees to pay the amount shown on the front hereof upon according to the terms and conditions set forth herein.
2. Price is subject to review depending on the style and options chosen for the vertical lift gate.

- 3. Buyer agrees to furnish and be solely responsible for fence lines (location of fence) and grade and to indemnify and hold Seller completely free and harmless from any and all damages arising out of the location of fence, including reimbursement of Seller's attorney's fee and cost.
- 4. This contract does not include any grading, surveying nor removal of any existing fence or plants unless so specified in writing herein.
- 5. Buyer shall grant free access to work areas on the property or adjacent property where work is to be performed and the Buyer agrees to keep the area clear and open and Seller shall not be responsible for damage to property including driveways, walks, lawns by performance of Seller under this contract, including movement of workers materials and equipment.
- 6. The balance due shall be paid in full upon substantial completion of the work. Thereafter a service charge shall be assessed on the due and unpaid balance at a rate equal to one and a half percent (1.5%) per month from the due date until paid in full but in no event shall the service charge be greater than the maximum permitted by applicable law under contract. If the Seller deems it necessary to employ an attorney or collection agency to collect this account, or any part thereof, Buyer agrees to pay actual, reasonable attorney's fees or collection costs.
- 7. Following a reasonable time after delivery and installation of goods, but in no event to exceed 30 days, acceptance of the goods and work performed is deemed to have occurred and the Buyer thereby waives any complaint or any other objection arising under this contract to the goods and work performed.
- 8. All goods supplied, and work performed are warranted to be fit for the ordinary purposes for which such goods are used.
- 9. This contract including all attached documents, which are incorporated herein by reference constitutes the entire agreement of the parties. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE GOODS AND WORK TO BE PERFORMED WHICH IS CONTAINED IN THIS CONTRACT.
- 10. This contract is to be construed in accordance with, and governed by, the laws of the State of Michigan.
- 11. If one or more of the provisions are determined to be void under state law or determined to be unenforceable, Four Seasons Fence, LLC reserves the option to sever this provision from the contract and may choose to keep the remainder of the contract validly enforceable against the Buyer with the exclusion of the enforceable provision. Four Seasons Fence, LLC also has the option to cancel the whole contract if one provision or more is rendered unenforceable.
- 12. The undersigned further agree(s) that title in and to any and all materials furnished by contractor whether attached to the building or not, shall remain with contractor until the full amount due from the owner(s) shall be paid. All unused materials shall, under any condition, remain the property of the contractor. All materials delivered by the contractor to the premises shall be stored and safety kept by the owner(s) and no rental or storage charges therefor shall be made or assessed by the owner(s).
- 13. This Quote is valid only for 15 Days. Materials are to be purchased after approval of submittals and stored until installation date.

 Customer Name (Print)

 Business Name (If applicable)

 Customer Signature



 Seller Signature

 Date



FOUR SEASONS
— FENCE, LLC —

Four Seasons Fence, LLC
13876 Gilbert Rd Allenton, MI 48005
Phone: 586-701-3505 | Email: rvenditti@fourseasons fence.co
Website: www.fourseasons fence.co

CHAINLINK FENCE SPECIFICATION

FABRIC: 72" 9 GA GBW (2" Mesh) KK CHAIN-LINK FABRIC.

TOP RAIL: 1 5/8" O.D. LG-40 PIPE, 1.83 lbs. per foot. Top rail 21' in length, joined with 1 5/8" (6" LONG) PS SLEEVE.

LINE POST: 2 1/2" O.D. LG-40 PIPE CUT POST, 3.12 lbs. per foot. Line posts set 10' on center maximum spacing.

TERMINAL POST: 3" O.D. LG-40 PIPE CUT POST, 4.64 lbs. per foot.

GATES: Framework of 2 1/2" SCH 40 IMP PIPE, 3.65 lbs. per foot. Gates braced and trussed as necessary. Same fabric as fence.

GATE POST: 4" O.D. LG-40 PIPE CUT POST, 6.56 lbs. per foot.

TENSION WIRE: 7 GA. ALUMINIZED TENSION WIRE attached to bottom of fence fabric with 9 GA. PS 1 9/16" (80/Lb.) HOG RING spaced 24" on center.

FITTINGS: PS PLAIN BRACE BAND & CARRIAGE BOLT W/NUT, PS COMBO RAIL END, PS LOOP CAP, PS DOME CAP, 3/4" PS TENSION BAR, PS PLAIN TENSION BAND & CARRIAGE BOLT W/NUT.

TIE WIRE: 8 1/4" ALUMINUM CUT/HOOK 9 GA. TIE WIRE & 6 1/2" ALUMINUM CUT/HOOK 9 GA. TIE WIRE spaced 15" on center for line posts & 24" on center for rails.

FABRIC: 72" 9 GA GBW (2" Mesh) KK
CHAIN-LINK FABRIC.

TOP RAIL: 1 5/8" O.D. LG-40 PIPE;
1.83 lbs. per foot. Top rail 21'
in length, joined with 1 5/8" (6"
LONG) PS SLEEVE.

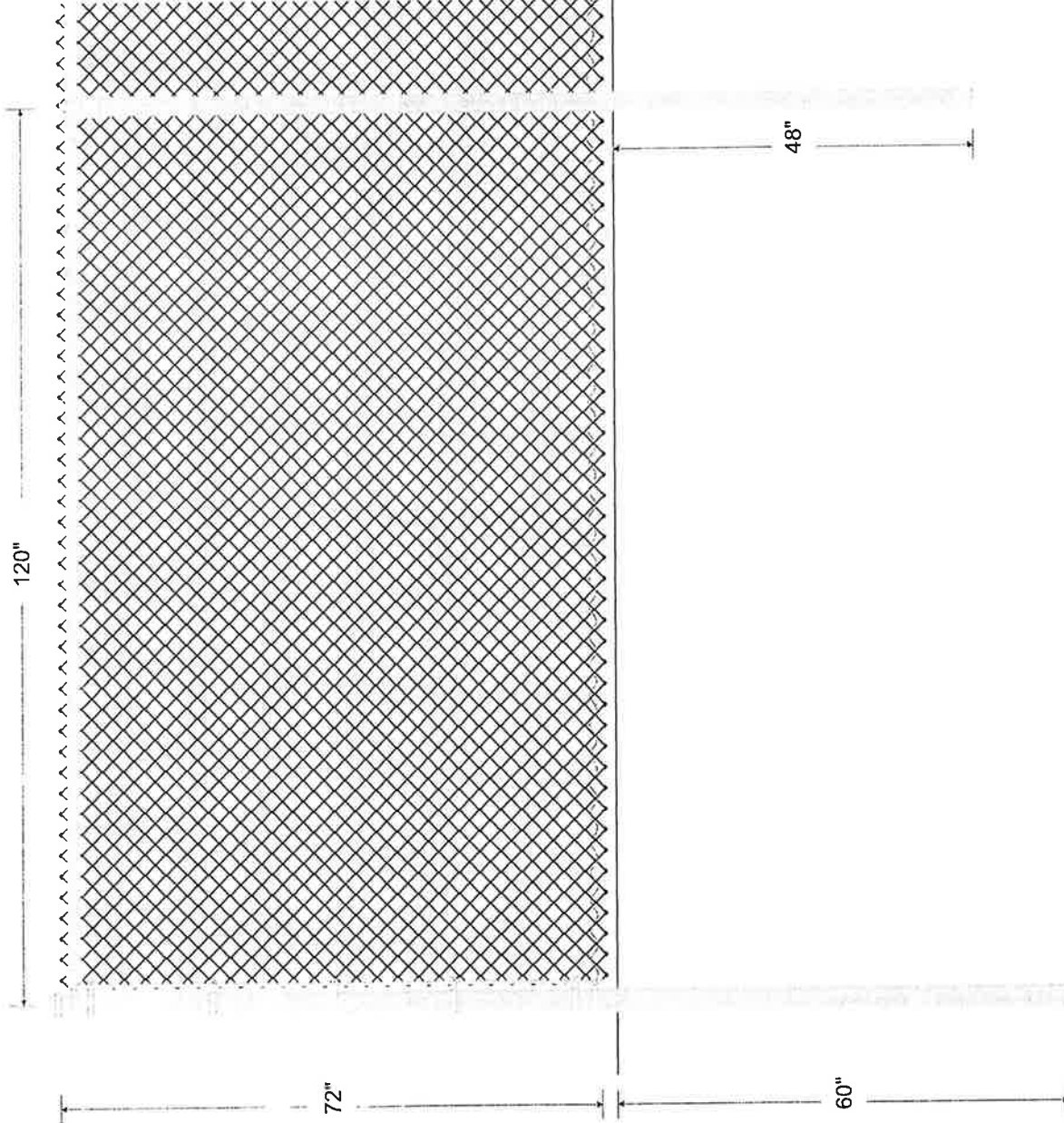
LINE POST: 2 1/2" O.D. LG-40 PIPE
CUT POST, 3.12 lbs. per foot. Line
posts set 10' on center maximum
spacing.

TERMINAL POST: 3" O.D. LG-40 PIPE
CUT POST, 4.64 lbs. per foot.

TENSION WIRE: 7 GA. ALUMINIZED
TENSION WIRE attached to bottom of
fence fabric with 9 GA. PS 1 9/16"
(80/Lb.) HOG RING spaced 24" on
center.

FITTINGS: PS PLAIN BRACE BAND &
CARRIAGE BOLT WINUT, PS COMBO RAIL
END, PS LOOP CAP, PS DOME CAP, 3/4"
PS TENSION BAR, PS PLAIN TENSION
BAND & CARRIAGE BOLT WINUT.

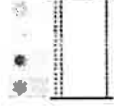
TIE WIRE: 8 1/4" ALUMINUM CUT/HOOK
9 GA. TIE WIRE & 6 1/2" ALUMINUM
CUT/HOOK 9 GA. TIE WIRE spaced 15"
on center for line posts & 24" on
center for rails.



Four Seasons Fence
13876 Gilbert Rd Allenton, MI 48005
Phone: 586-701-3505 | Email: rvenditti@fourseasonsfence.co
Website: www.fourseasonsfence.co

I N F E N C E

Drawn: 10/21/2025



FOUR SEASONS
— FENCE, LLC —

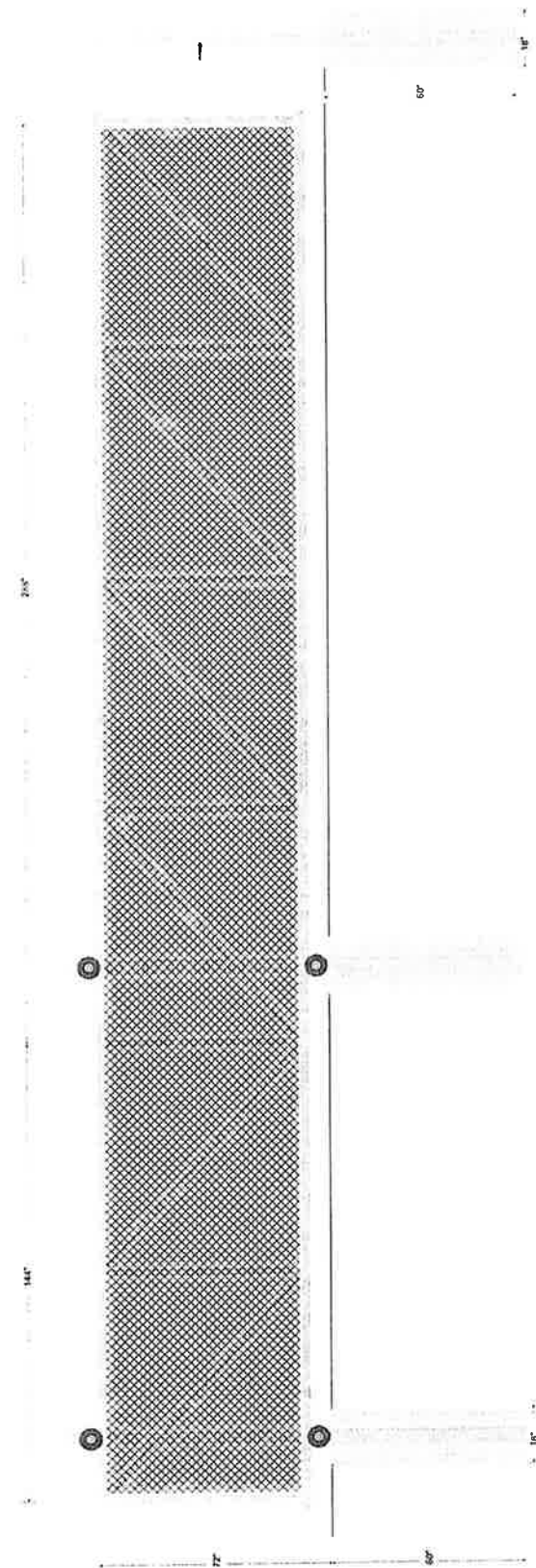
FABRIC: 72" 9 GA GBW (2" Mesh) KK
CHAIN-LINK FABRIC.

GATES: Framework of 2 1/2" SCH 40
IMP PIPE, 3.65 lbs. per foot.
Gates braced and trussed as
necessary. Same fabric as fence.

GATE POST: 4" O.D. LG-40 PIPE CUT
POST, 6.56 lbs. per foot.

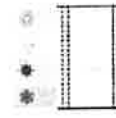
FITTINGS: PS PLAIN BRACE BAND &
CARRIAGE BOLT WINUT, PS COMBO RAIL
END, PS LOOP CAP, PS DOME CAP, 3/4"
PS TENSION BAR, PS PLAIN TENSION
BAND & CARRIAGE BOLT WINUT.

TIE WIRE: 8 1/4" ALUMINUM CUT/HOOK
9 GA. TIE WIRE & 6 1/2" ALUMINUM
CUT/HOOK 9 GA. TIE WIRE spaced 15"
on center for line posts & 24" on
center for rails.



Four Seasons Fence, LLC
13876 Gilbert Rd Allenton, MI 48005
Phone: 586-701-3505 | Email: rvenditti@fourseasonsfence.co
Website: www.fourseasonsfence.co

24' CANTILEVER GATE 2 1/2" SCH 40 IMP PIPE FRAME Drawn: 10/21/2025



FOUR SEASONS
— FENCE, LLC —

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rvenditti@fourseasonsfence.co

Website: www.fourseasonsfence.co

CHAINLINK FENCE SPECIFICATION

FABRIC: 72" 9 GA GBW (2" Mesh) KK CHAIN-LINK FABRIC.

TOP RAIL: 1 5/8" O.D. LG-40 PIPE, 1.83 lbs. per foot. Top rail 21' in length, joined with 1 5/8" (6" LONG) PS SLEEVE.

LINE POST: 2 1/2" O.D. LG-40 PIPE CUT POST, 3.12 lbs. per foot. Line posts set 10' on center maximum spacing.

TERMINAL POST: 3" O.D. LG-40 PIPE CUT POST, 4.64 lbs. per foot.

GATES: Framework of 2 1/2" SCH 40 IMP PIPE, 3.65 lbs. per foot. Gates braced and trussed as necessary. Same fabric as fence. Barbed wire included on all gates.

GATE POST: 4" O.D. LG-40 PIPE CUT POST, 6.56 lbs. per foot.

TENSION WIRE: 7 GA. ALUMINIZED TENSION WIRE attached to bottom of fence fabric with 9 GA. PS 1 9/16" (80/Lb.) HOG RING spaced 24" on center.

BARBED WIRE: 3 strands of ALUMINIZED 4 PT (5" Sp.) BARBED WIRE on PS 45 Degree 3-WIRE BARB ARM.

FITTINGS: PS PLAIN BRACE BAND & CARRIAGE BOLT W/NUT, PS COMBO RAIL END, PS 45 Degree 3-WIRE BARB ARM, PS DOME CAP, 3/4" PS TENSION BAR, PS PLAIN TENSION BAND & CARRIAGE BOLT W/NUT.

TIE WIRE: 8 1/4" ALUMINUM CUT/HOOK 9 GA. TIE WIRE & 6 1/2" ALUMINUM CUT/HOOK 9 GA. TIE WIRE spaced 15" on center for line posts & 24" on center for rails.

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TOP RAIL: 1 5/8" O.D. LG-40 PIPE, 1.83 lbs. per foot. Top rail 21' in length, joined with 1 5/8" (6" LONG) PS SLEEVE.

LINE POST: 2 1/2" O.D. LG-40 PIPE CUT POST, 3.12 lbs. per foot. Line posts set 10' on center maximum spacing.

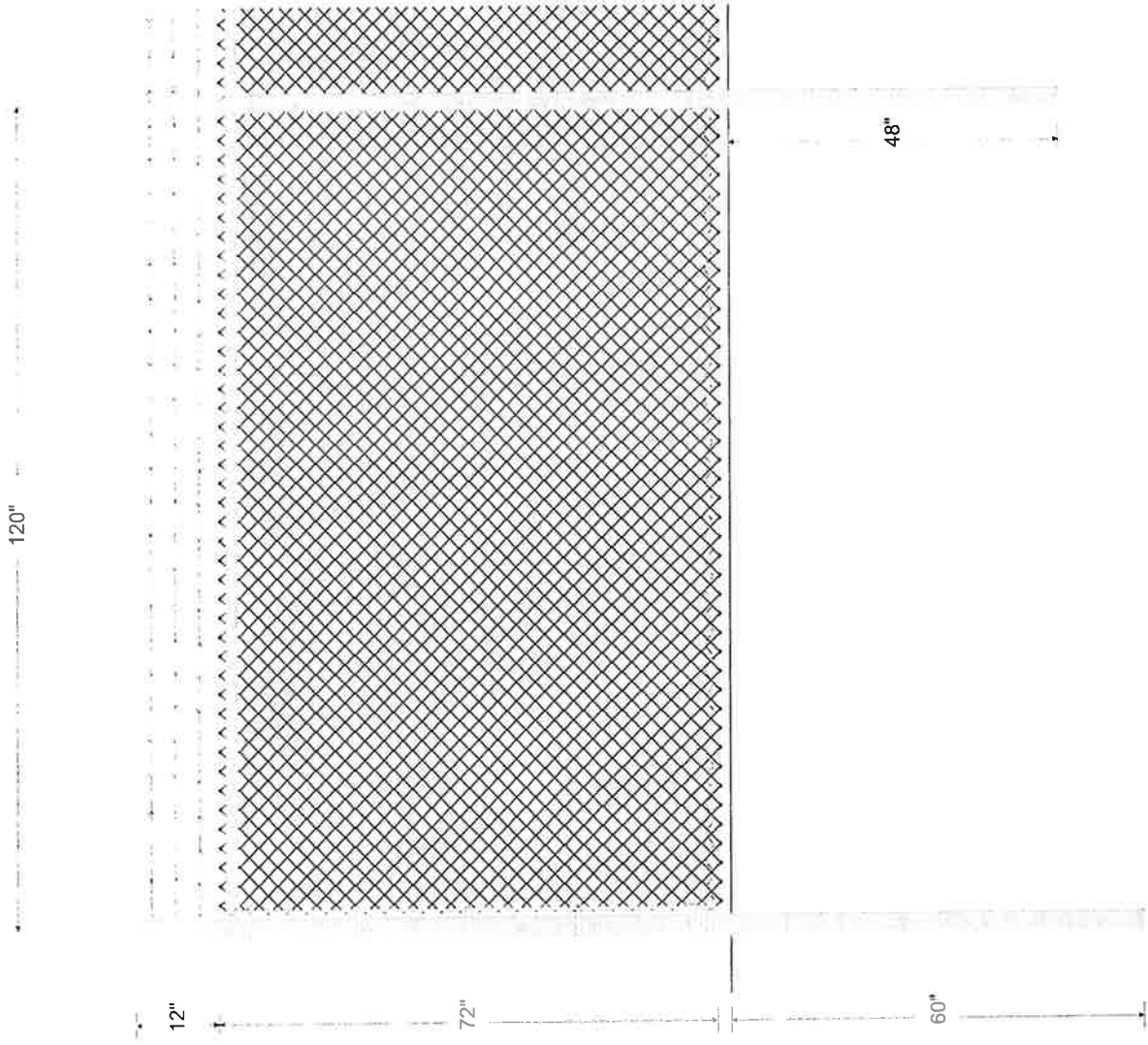
TERMINAL POST: 3" O.D. LG-40 PIPE CUT POST, 4.64 lbs. per foot.

TENSION WIRE: 7 GA. ALUMINIZED TENSION WIRE attached to bottom of fence fabric with 9 GA. PS 1 9/16" (80/Lb.) HOG RING spaced 24" on center.

BARBED WIRE: 3 strands of ALUMINIZED 4 PT (5" Sp.) BARBED WIRE on PS 45 Degree 3-WIRE BARB ARM.

FITTINGS: PS PLAIN BRACE BAND & CARRIAGE BOLT WINUT, PS COMBO RAIL END, PS 45 Degree 3-WIRE BARB ARM, PS DOME CAP, 3/4" PS TENSION BAR, PS PLAIN TENSION BAND & CARRIAGE BOLT WINUT.

TIE WIRE: 8 1/4" ALUMINUM CUT/HOOK 9 GA. TIE WIRE & 6 1/2" ALUMINUM CUT/HOOK 9 GA. TIE WIRE spaced 15" on center for line posts & 24" on center for rails.



Four Seasons Fence, LLC
 13876 Gilbert Rd Allenton, MI 48005
 Phone: 586-701-3505 | Email: rvenditti@fourseasonsfence.co
 Website: www.fourseasonsfence.co

LINE OF FENCE

Drawn: 10/21/2025



FABRIC: 72" 9 GA GBW (2" Mesh) KK CHAIN-LINK FABRIC.

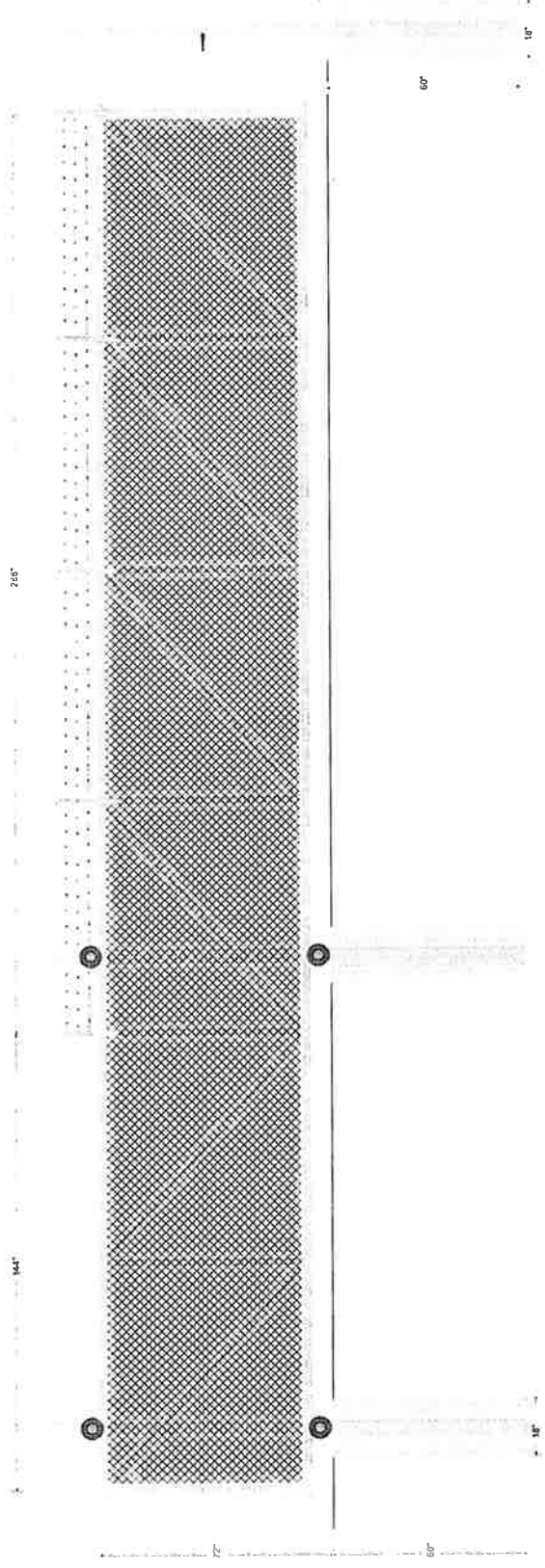
GATES: Framework of 2 1/2" SCH 40 IMP PIPE, 3.65 lbs. per foot. Gates braced and trussed as necessary. Same fabric as fence. Barbed wire included on all gates.

GATE POST: 4" O.D. LG-40 PIPE CUT POST, 6.56 lbs. per foot.

BARBED WIRE: 3 strands of ALUMINIZED 4 PT (5" Sp.) BARBED WIRE on PS 45 Degree 3-WIRE BARB ARM.

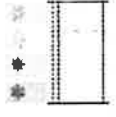
FITTINGS: PS PLAIN BRACE BAND & CARRIAGE BOLT W/NUT, PS COMBO RAIL END, PS 45 Degree 3-WIRE BARB ARM, PS DOME CAP, 3/4" PS TENSION BAR, PS PLAIN TENSION BAND & CARRIAGE BOLT W/NUT.

TIE WIRE: 8 1/4" ALUMINUM CUT/HOOK 9 GA. TIE WIRE & 6 1/2" ALUMINUM CUT/HOOK 9 GA. TIE WIRE spaced 15" on center for line posts & 24" on center for rails.



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4' CANTILEVER GATE 2 1/2" SCH 40 IMP PIPE FRAME Drawn: 10/21/2025



FOUR SEASONS
— FENCE, LLC —

SECTION 32 31 13
CHAIN LINK FENCE
GALVANIZED CHAIN LINK FABRIC ON GALVANIZED FRAMEWORK
[Provided by Master Halco]

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Galvanized (zinc) coated chain link fabric with galvanized steel framework and accessories for commercial or industrial applications.

1.02 RELATED SECTIONS [select applicable sections for project, delete those not applicable]

- 01 33 13 Certifications
- 01 33 23 Shop drawings, product data
- 01 43 13 Manufacturers Qualifications
- 01 43 13 Installer qualifications
- 01 45 00 Quality control
- 01 65 00 Product delivery requirements
- 03 30 00 Cast-In-Place Concrete
- 25 50 00 Integrated automation, gate operators/access control
- 32 31 13.23 Recreational Court Fences and Gates
- 32 31 13.26 Tennis Court Fences and Gates
- 32 31 13.33 Chain Link Backstops
- 32 31 13.53 High-Security Chain Link Fences and Gates

1.03 REFERENCES [delete references no applicable to project]

- A. ASTM A36 Standard Specification for Carbon Structural Steel
- B. ASTM A121 Standard Specification for Metallic-Coated Carbon Steel Barbed Wire
- C. ASTM A392 Standard Specification for Zinc-Coated Steel Chain-Link Fabric
- D. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-dip Galvanized Coatings
- E. ASTM A817 Standard Specification for Metallic-Coated Steel Wire for Chain Link Fence Fabric and Marcellled Tension Wire
- F. ASTM A824 Standard Specification for Metallic-Coated Steel Marcellled Tension Wire for Use With Chain Link
- G. ASTM B221 Standard Specification for Aluminum and Aluminum Alloy Bars, Rods, Wire Profiles and Tubes
- H. ASTM F552 Standard Terminology Relating to Chain Link Fencing
- I. ASTM F567 Standard Practice for Installation of Chain Link Fence
- J. ASTM F626 Standard Specification for Fence Fittings
- K. ASTM F900 Standard Specification for Industrial and Commercial Swing Gates

- L. ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework
- M. ASTM F1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- N. ASTM F1184 Standard Specification for Industrial and Commercial Horizontal Slide Gates
- O. ASTM F1910 Standard Specification for Long Barbed Tape Obstacles
- P. ASTM F1911 Standard Practice for Installation of Barbed Tape
- Q. ASTM F2200 Standard Specification for Automated Vehicular Gate Construction
- R. UL 325 Door, Drapery, Gate, Louver and Window Operators
- S. WLG2445 Chain Link Fence Manufacturers Institute, Chain Link Fence Wind Load Guide for the Selection of Line Posts and Line Post Spacing

1.04 SUBMITTALS

- A. Changes in specifications may not be made after the bid date.
- B. Shop drawings: Layout of fences and gates with dimensions, details, and finishes of components, accessories, and post foundations.
- C. Product data: Manufacturer's catalog cuts indicating material compliance and specified options.
- D. Samples: If requested, samples of materials (e.g., fabric, wires, and accessories).

1.05 QUALITY ASSURANCE

- A. Manufacturer: Company having manufacturing facilities in the United States with a minimum 5 years experience specializing in manufacturing of chain link fence products.
- B. Fence contractor: Contractor having 5 years experience installing similar projects in accordance with ASTM F567.
- C. Tolerances: ASTM current specification and tolerances apply and supersede any conflicting tolerance.
- D. Substitutions: Alternate chain link products may be acceptable by the architect as equal if approved in writing ten days prior to bidding provided that the items submitted meet the specifications contained in this document.
- E. Single source: To ensure system integrity obtain the chain link system, framework, fabric, fittings, gates and accessories from a single source.

PART 2 - PRODUCTS

2.01 MANUFACTURER

Approved Manufacturer: Master Halco, Inc.
 3010 Lyndon B Johnson Freeway
 Dallas, TX. 75234
 Phone (800) 883-8384
www.masterhalco.com E-mail: spec@fenceonline.com

2.02 CHAIN LINK FENCE FABRIC

- A. Galvanized (zinc) coated steel chain link fabric per ASTM A392
[Class 1 weight of zinc coating 1.2 oz/ft² (366 g/m²)] [Class 2 weight of zinc coating 2.0 oz/ft² (610 g/m²)]
[select zinc coating class] [see Fabric Selection Table for mesh size, wire gauge, break load and selvage;
knuckle (K) or twist (T), to fit application]

Size and Height: Chain link fabric (in.) (mm) mesh, () gauge, (in.) (mm) diameter
wire having a break load of () lbf (N), mesh height (in.) (mm).

- B. Selvage of fabric _____ at top and _____ at bottom.

2.03 STEEL FENCE FRAMEWORK

[select post specification that best fits application]

- A. Steel pipe Type I: ASTM F1043 Group IA, ASTM F1083 standard weight schedule 40 hot-dip galvanized pipe having a zinc coating of 1.8 oz/ft² (550 g/m²) on the outside surface and 1.8 oz/ft² (550 g/m²) on the inside surface.
Regular Grade: Minimum steel yield strength of 30,000 psi (205 MPa) [all sizes]
Intermediate Strength Grade: Minimum steel yield strength of 50,000 psi (344 MPa) [in sizes 6.625" and 8.625" (168.3, 219.1 mm) OD only]
High Strength 83000 Grade: Minimum steel yield strength 83,000 psi (572 MPa) [all sizes up to and including 4.00" OD (101.6mm) [special order]
- B. Steel pipe Type II: Cold formed electric resistance welded steel pipe complying with ASTM F1043 Group IC having minimum steel yield strength of 50,000 psi (344 MPa). External protective coating F1043 Type B, 0.9 oz/ft² (270 g/m²) minimum hot-dip zinc coating plus a chromate conversion and a clear polymer coating. Internal coating F1043 Type D, 81% nominal zinc pigmented coating minimum 3 mils (0.0076 mm) thick or Type B, minimum 0.9 oz/ft² (275 g/m²) zinc.
- C. Formed steel "C" sections: Roll formed steel shapes complying with ASTM F1043, Group II, 50,000 psi (344 MPa) minimum steel yield strength. External coating, ASTM F1043 Type A, minimum average zinc coating of 2.0 oz/ft² (610 g/m²) in accordance with ASTM A 123.

Wind load caution: Fences containing windscreens or privacy slats, all fences greater than 12 ft. (3.7 m) in height and fences 8 feet (2.4 m) in height using 1 in. (25 mm) or smaller mesh require a wind load force analysis for post size and post spacing. A fence post wind load calculator is available at www.chainlinkinfo.org or www.wheatland.com.

[select post size and spacing from Framework Selection Table or as calculated to withstand wind load]

- D. Pipe End and Corner Post _____ OD (_____ mm) _____ lbs/ft (_____ kg/m)

- E. Pipe Line Post _____ OD (_____ mm) _____ lbs/ft (_____ kg/m)

[Alternate Line Post:]

[Rolled Formed _____ C" (_____ mm) _____ lbs/ft (_____ kg/m)]

- F. Pipe Rail and Braces, 1.660 in. OD (42.2 mm) _____ lbs/ft (_____ kg/m)

2.04 FITTINGS

- A. Post caps: ASTM F626 galvanized pressed steel, malleable iron, or aluminum alloy weather tight closure cap for tubular posts. Provide one cap for each post. "C" shaped line post without top rail do not require post caps. When top rail is specified provide line post loop tops to secure top rail.
- B. Rail ends: Galvanized pressed steel per ASTM F626, for connection of rails to post using a brace band.
- C. Top rail sleeves: 7" (178 mm) galvanized steel sleeve per ASTM F626. [If expansion and contraction of the rail is of concern add a 0.137" (3.48 mm) wire diameter by 1.80" (45.72 mm) long expansion spring between the adjoining rails]
- D. Wire ties: 9 gauge (0.148") (3.76 mm) galvanized steel wire for attachment of fabric to line posts and rails. [Alternate double wrap 13 gauge (0.092") (2.324 mm) galvanized steel wire for rails and braces] Pre-formed hog ring ties to be 9 gauge (0.148") (3.76 mm) galvanized steel or aluminum for attachment of fabric to tension wire. Tie wire and hog rings per ASTM F626.
- E. Brace and tension (stretcher bar) bands: ASTM F626 galvanized 12 gauge (0.105") (2.67mm) pressed steel by 3/4" (19mm) formed to a minimum 300 degree profile curvature for post attachment. Secure bands using minimum 5/16" (7.94 mm) galvanized carriage bolt and nut.
- F. Tension (stretcher) bars: Galvanized steel one piece length equal to 2 inches (50 mm) less than full height of fabric with a minimum cross-section of 3/16" x 3/4" (4.76 mm x 19 mm) per ASTM F626. Provide tension (stretcher) bars where chain link fabric is secured to the terminal post.
- G. Truss rod assembly: Galvanized steel minimum 5/16" (7.9mm) diameter truss rod with pressed steel tightener, in accordance with ASTM F626
- H. Barbed wire supporting arms: [add when applicable] Galvanized pressed steel barb arm per ASTM F626 with provisions for attaching barbed wire. Provide arms with loop hole for applications with top rail. Arms shall withstand 250 lb. (113.5 kg) downward pull at outermost end of arm without failure. Arms provide an additional 13 in. (330 mm) in height. [Type I, 45° 3 strand single arm] [Type III 6 strand "V" arms].
- I. Carriage bolts and nuts: Galvanized of commercial quality

2.05 TENSION WIRE

- A. Tension wire: ASTM A824 Type II, zinc coated (galvanized) steel wire, 7 gauge, (0.177") (4.50 mm) diameter wire having a tensile strength of 75,000 psi (517 MPa).
[Class 4 1.20 oz/ft² (366 g/m²)] [Class 5 2.00 oz/ft² (610 g/m²)]

2.06 BARBED WIRE AND BARBED TAPE [add when application requires additional security]

- A. Barbed wire: ASTM A121 design number 12-4-5-14R, 12 ½ gauge, 0.099" (2.51 mm) Type Z Class 3, 0.80 oz/ft² (245 g/m²) zinc coated double-strand twisted line wire with 14 gauge, (0.080") (2.03 mm) Type Z Class 3, 0.70 oz/ft² (215g/m²) zinc coated 4 point barbs spaced an average of 5" (127 mm) on center.
- B. Barbed tape: Stainless steel barbed tape shall comply with ASTM F1910.

2.07 CHAIN LINK SWING GATE

- A. Swing gates [double leaf] [single leaf] _____ opening by _____ high [plus 1' 0" (304.8 mm) 3 strands barbed wire]. Fabricate chain link swing gates in accordance with ASTM F900. Gate frame to be of welded construction. Weld areas to be protected with zinc-rich paint per ASTM A780. The gate frame members are to be spaced no greater than 8' 0" (2.44 m) apart horizontally or vertically. Exterior members to be 1.900" (48.3 mm) OD pipe, interior members when required shall be 1.660" (42.2 mm) OD pipe. Pipe to be [Grade 1 ASTM F1083] [Grade 2 ASTM F1043 Group IC] per section 2.03. Chain link fabric to match specification of fence system. Fabric to be stretched tightly and secured to vertical outer frame members using tension bar and tension bands spaced 12" (304.8 mm) on center and tied to the horizontal and interior members 12" (304.8 mm) on center using 9 gauge galvanized steel ties per section 2.04.
- B. Hinges, hot dip galvanized pressed steel or malleable iron, structurally capable of supporting gate leaf and allow opening and closing without binding. Non-lift-off type hinge design shall permit gate to swing 180° (3.14 rad)
- C. Latch: Galvanized forked type capable of retaining gate in closed position and have provision for padlock. Latch shall permit operation from either side of gate.
- D. Double gates: Provide galvanized drop rod with center gate stop pipe or receiver to secure inactive leaf in the closed position. Provide galvanized pressed steel locking latch, requiring one padlock for locking both gate leaves, accessible from either side.
- E. Gate holdback: Provide galvanized gate hold back keeper for each gate leaf over 5' (1524 mm) wide. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.
- F. Gate posts: [Grade 1 pipe ASTM F1083] [Grade 2 pipe ASTM F1043 Group IC] per section 2.03, _____ OD [select gate post from table below]

Gate fabric height up to and including 6 ft. (1.2m)

Gate leaf width		Outside Diameter
up to 4 ft. (1.2 m)		2.375 in. (60.3 mm)
over 4 ft. to 10 ft. (1.2 to 3.05 m)		2.875 in. (73.0 mm)
over 10 ft. to 18 ft. (3.05 to 5.5 m)		4.000 in. (101.6 mm)

Gate fabric height over 6 ft. to 12 ft. (1.2 to 2.4m)

Gate leaf width		Outside Diameter
up to 6 ft. (1.8 m)		2.875 in. (73.0 mm)
over 6 ft. to 12 ft. (1.8 to 3.7 m)		4.000 in. (101.6 mm)
over 12 ft. to 18 ft. (2.4 to 5.5 m)		6.625 in. (168.3 mm)
over 18 ft. to 24 ft. (5.5 to 7.3 m)		8.625 in. (219.1 mm)

2.08 HORIZONTAL SLIDE GATES

- A. Type I – Overhead Slide Gates: In compliance with ASTM F 1184 **Type I**
- B. Cantilever Slide Gates: Incompliance with ASTM F1184 Type II

1. **Class 1 – External Roller Design:** [double leaf] [single leaf] _____ opening by _____ high [plus 1' 0" (304.8 mm) 3 strands of barbed wire designed per ASTM F 1184-05 with horizontal top and bottom steel pipe "track" members to be 2.375 in. O.D. (60.3 mm), vertical and internal members 1.900 in. O.D. in compliance with <Inset gate pipe frame specification> [ASTM F1043 Group IA 1083 sch 40 pipe] [ASTM F1043 Group IC pipe.] Gate frame to be fabricated by welding, vertical and horizontal members located no greater than 8 ft. (2440 mm) apart. The length of back frame support section shall be a minimum of 40% of the opening. Welded joints are to be protected by applying zinc-rich paint in accordance with ASTM Practice A780. Gates designed to open or close by applying an initial pull force no greater than 40 lbs.(18.14 kg). Match chain link fabric to that of the fence system. Positive locking latch fabricated galvanized pressed steel. Galvanized steel drop bars provided with double gates. Gateposts, 4.00 in. OD (101.6 mm) _____lb/ft <Insert post specification and weight per foot.> [ASTM F1043 Group IA ASTM F10983 sch 40 pipe] [ASTM F1043 Group IC pipe]. Provide Load Master™ II (5 year warranty) nylon cantilever external top and bottom rollers with safety protective guards.

Safety Note: Safety posts and roller covers/guards are required.

2. **Class 2 – Internal Roller Design:** Aluminum cantilever slide gate [double leaf] [single leaf] _____ opening by _____ high [plus 1' 0" (304.8 mm) 3 strands of barbed wire] shall be of the internal roller design per ASTM F1184 Type II Class 2. Cantilever slide gate to be constructed of ASTM B221 aluminum members welded and designed for maximum structural integrity. Vertical external and internal members minimum 2" (50 mm) square, spaced maximum 8' 0" (2.44 m) on center. Gates having fabric greater than 8' 0" (2.44 m) in height require a horizontal member. The top horizontal member shall be a one-piece precision extruded structural framing member having an integral enclosed track. Bottom horizontal member to be minimum 2" x 4" (50 x 100 mm). Adjustable diagonal X trusses shall be installed in each gate panel to transfer the alternating forces as the gate slides. The gate opening portion shall be filled with chain link fabric stretched taut and secured to the frame members. Chain link fabric shall match the fence system specification. The overall gate structure shall be a minimum of 40% larger than the gate opening to support the cantilevered portion of the gate in the closed position with minimum deflection per ASTM F1184. The minimum 40% back frame does not require the installation of chain link fabric for those gates not to be electrically operated. [Electrically operated gates per ASTM F2200 and UL 325 required the back frame to be filled with fabric.] Single leaf cantilever design for openings larger than 30' 0" (9.15 m) up to 40' 0" (12.2 m) shall be fabricated by welding together two horizontal top structural/track members creating a dual track system. Single track gates up to 30' 0" (9.15 m) opening require two support posts and two internal truck assemblies. Dual track gates over 30' 0" (9.15 m) up to 40' 0" (12.2 m) require two sets of dual posts and four internal truck assemblies.
- G. Internal truck assemblies shall be capable of swiveling to accommodate gate movement and ensure full contact of the four support wheels and two guide wheels to the internal track surface. The galvanized steel truck assembly post bracket, truck assembly vertical support axle as well as the support wheels shall be designed to handle static and dynamic forces required to support and operate the gate. The truck assembly, support axle and internal wheels shall be comprised of stainless steel or galvanized steel components.
 - H. Galvanized steel bottom guide roller brackets containing two 3" (75 mm) rubber wheels shall be supplied to keep the bottom of the gate plumb and in proper alignment.

- I. Single gates shall be supplied with a galvanized steel latch mechanism capable of securing the gate with a padlock accessible from either side. Double gates to have galvanized drop rod to hold inactive leaf and a latch mechanism capable of securing the gate with a padlock accessible from either side. Provide drop rod receiver to engage center drop rod. [Electrically operated gates per ASTM F2200 and UL325 shall not contain any latch or locking mechanism]
- J. Cantilever gate posts shall be 4.00" (101.6 mm) OD [Grade 1 pipe ASTM F1083] [Grade 2 pipe ASTM F1043 Group IC] per section 2.03. Single leaf cantilevers up to 30' 0" (9.15 m) require three 4" (101.6 mm) OD posts, dual track single leaf cantilevers over 30' 0" (9.15 m) up to 40' 0" (12.2 m) require two sets of pre fabricated dual 4.00" (101.6 mm) OD support posts and one 4" (101.6 mm) latch post. (Gate is supported in the center of the dual posts.

SAFETY ALERT! Electrically operated cantilever slide gates are for use in controlling vehicular traffic only and are not intended to be used by pedestrians or control pedestrian traffic. Always specify a separate swing walk gate for pedestrian use. The design of electrically operated slide gates must comply with ASTM F2200 and UL 325.

2.09 POST SETTING MATERIALS

- A. Concrete: Minimum 28 day compressive strength of 3,000 psi (20 MPa).
- B. Drive Anchors: Galvanized ASTM A36 steel drive anchor angle blades, [1" x 1" (25 mm x 25 mm)] [1.25" x 1.25" (31.8 mm x 31.8 mm)] x 30" (762 mm) long secured to post with a galvanized shoe clamp. [drive anchors are limited to post size 2.785" (73.0 mm) OD or less]

2.10 ACCESSORIES

- A. Privacy Slats: Slats to be manufactured from a combination of color pigments, quality high density virgin polyethylene and ultraviolet inhibitors, having a 25 year limited warranty against either color fading or breakage of slats and locking-channel used under normal climactic extremes experienced in North America and Hawaii. Color: [Beige] [Rustic Brown] [Snow White] [Black] [Redwood] [Sky Blue] [Forest Green] or [Cape Cod Gray]. Select design [Standard PDS self-locking using horizontal bottom channel locking system] [FIN/SLAT '1000' self-locking slats]

PART 3 EXECUTION

3.01 SITE EXAMINATION

- A. Ensure property lines and legal boundaries of work are clearly established.
- B. Survey of fence location to be provided by [general contractor] [fence contractor] [owner]
- C. Verify areas to receive fencing are completed to final grade.

3.02 CHAIN LINK FRAMEWORK INSTALLATION

- A. Install chain link fence system in accordance with ASTM F567 and manufacturer's instructions.
- B. Locate terminal post at each fence termination and change in horizontal or vertical direction of 30° or more.
- C. Space line posts uniformly [8' (2438 mm) on center] [maximum 10' (3048 mm) on center] [maximum _____ ft. (_____ mm) on center as determined by wind load post selection calculations]

- D. Concrete set posts: Excavate holes in firm, undisturbed or compacted soil. Holes shall have diameter 4 times greater than outside dimension of post, and depths approximately 6" (152 mm) deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. Set post bottom 36" (914 mm) below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour. Trowel finish around post and slope to direct water away from posts.
Drive Anchor set line posts: With protective cap, drive post 36" (914 mm) into ground. Excavate a 6" (152.4 mm) diameter by 6" (152.4 mm) deep section around post to accommodate the drive anchor shoe clamp. Drive the 2 diagonal drive anchor angle blades into the soil and securely tighten the angle blades to post via the shoe clamp, backfill hole. [post setting can be a combination of both drive anchors for line posts and concrete for terminal posts, delete reference to drive anchors if not specified]
- E. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.
- F. Bracing: Install horizontal brace and truss assembly at mid-height or above for fences 6' (1829 mm) and over at each fabric connection to the terminal post. The diagonal truss rod is installed at the point where the brace rail is attached to the terminal post and diagonally down to the bottom of the adjacent line post. Place the truss rod in tension by adjusting the turnbuckle.
- G. Tension wire: Install tension wires so that it will be located 4" (101.6 mm) up from bottom the fabric. If top rail is not specified, install the tension wire so that it will be located 4" (101.6 mm) down from the top of the fabric. Stretch and install tension wire before installing the chain link fabric and attach it to each post using wire ties.
- H. Top rail: Install in lengths of 21' (6400 mm). Connect ends with sleeves forming a rigid connection, allow for expansion and contraction.
- I. Center Rails: Install mid rails between line posts and attach to post using rail end or line rail clamps. [A center rail is required for fabric height 12' (3658 mm) and over.]
- J. Bottom Rails: Install bottom rails between posts and attach to post using rail end or line rail clamps.

3.03 BARBED WIRE AND BARBED TAPE INSTALLATION [include when specified]

- A. Uniformly space and stretch barbed wire between terminal posts. Attach barbed wire to the terminal posts using brace bands and snap and secure barbed wire into each line post barb arm slot.
- B. Install barbed tape in accordance with ASTM F1911.

3.04 CHAIN LINK FABRIC INSTALLATION

- A. Fabric: Install fabric on security side, pull fabric taut; thread the tension bar through fabric and attach to terminal posts with tension bands spaced maximum of 15" (381 mm) on center and attach so that fabric remains in tension after pulling force is released. Install fabric so that it is 2" (50 mm) +/- 1" (25 mm) above finish grade.
- B. Secure fabric using wire ties to line posts at 15" (381 mm) on center and to rails and braces 24" (610 mm) on center, and to the tension wire using hog rings 24" (610 mm) on center. Tie wire shall be secured to the fabric by wrapping it two 360 degree turns around the chain link wire pickets. Cut off any excess wire and bend back so as not to protrude so as to avoid injury if a pedestrian may come in contact with the fence.

3.05 CHAIN LINK GATE INSTALLATION [add applicable gate installation section when specifying gates]

- A. Swing gates: Installation of swing gates and gate posts shall be per ASTM F567. Direction of swing shall be [inward] [outward] [as shown on drawings] Gates shall be hung plumb in the closed position with minimal space from grade to bottom of gate leaf. Double gate drop bar receiver shall be set in a minimum concrete footing 6" (152 mm) diameter by 24" (610 mm) deep. Gate leaf holdbacks shall be installed on all double gates and all gate leaves greater than 5' (1524 mm) in width. [Electrically operated gates shall comply with ASTM F2200 and UL 325]
- B. Cantilever slide gates: Install cantilever horizontal slide gates and gate posts in accordance with ASTM F567. Cantilever sliding gates shall be plumb in the closed position with minimal ground clearance and slide with an initial force of 40 lbs. (18.14 kg). Double gate drop bar receiver shall be set in a minimum concrete footing 6" (152 mm) diameter by 24" (610 mm) deep. [Install top and bottom safety roller covers and adjacent safety guide posts on ASTM F1184 Type I Class 2 external roller cantilever slide gate applications]

SAFETY ALERT! Electrically operated cantilever slide gates are for use in controlling vehicular traffic only and are not intended to be used by pedestrians or control pedestrian traffic. Always install a separate swing walk gate for pedestrian use. The design of electrically operated slide gates must comply with ASTM F2200 and UL 325.

3.06 ACCESSORIES [delete if not applicable]

- A. Privacy slats: Install and lock in privacy slats in the fabric in accordance with manufacturer's instructions.

3.07 ELECTRICAL GROUNDING

- A. Grounding when required shall be the responsibility of a licensed electrical contractor and included in Contract Section 33 79 00.

3.08 SITE CLEAN UP

- A. Clean up area adjacent to fence line from debris and unused material created by fence installation.

END OF SECTION



**MASTER
HALCO**

ZINC COATED (GALVANIZED)
STEEL CHAIN LINK FENCE FABRIC

ASTM A392, Federal Specification RR-F-191K/1F Type 1, AASHTO M-181 Type 1

Product Name: Zinc Coated (Galvanized) Steel Chain Link Fence Fabric.

Basic Use: Zinc coated (galvanized) steel chain link fence fabric for industrial, commercial, recreational and institutional applications. Zinc coated fabric is contained in local, state and federal government specifications for use in prison, road, dock, airport, housing, forestry, and military use.

Composition and Material: Zinc coated steel chain link fence fabric is produced by cold drawing good commercial grade steel rod into wire of the appropriate diameter. The steel rod from which the wire is drawn is produced by the open hearth, electric furnace or basic oxygen process.

The zinc coating may be applied before weaving into fabric (GBW) or after weaving into fabric (GAW). Galvanized before weaving (GBW) – The wire is cleaned, passed through a bath of molten zinc, and then woven into chain link fabric. Galvanized after weaving (GAW) - The uncoated wire is woven into chain link fence fabric of the appropriate height and mesh size. The coating is produced by passing the woven mesh through a continuous line which includes cleaning of the fabric. After cleaning, the fabric passes through a molten bath of zinc metal to produce the galvanized coating. Zinc used to produce the coating conforms to the requirements of ASTM specification B6.

Standards:

ASTM A392 Type 1 – Zinc-Coated Steel Chain Link Fence Fabric

ASTM F567 – Installation of Chain Link Fence

ASTM A817 – Metallic-Coated Wire for Use in Chain Link Fence

ASTM B6 – Zinc (Slab Zinc)

Federal Specification RR-F-191K/1F Type 1 Fencing, Wire and Post Metal (Chain-Link Fence)

AASHTO M-181 Chain Link Fence, Type 1

Technical Data:

General: The manufacturer, if requested, will supply samples and certification that all materials furnished comply with the appropriate specifications.

Chain Link Fence Fabric: The base metal of the chain link fence fabric is composed of commercial quality, medium carbon wire. The weight of the zinc coating, wire sizes with allowable variances, and wire breaking strength, as shown in Table 1, conform to ASTM A 817 for the wire size specified. The fabric is zinc coated after weaving (GAW) or before weaving (GBW).

Coating Weight: Zinc coated (galvanized) steel chain link fence fabric conforming to ASTM A 392 and other specifications referenced above is available in two coating classes with the following minimum weights :

Class 1 – 1.2 oz/sq ft (366 g/ sq meter)

Class 2 – 2.0 oz/sq ft (610g/ sq meter)

GAW is available in either class. Fabric woven with mesh size less than 1-1/4" is only available in GBW.

Sizes: Galvanized fabric is available in mesh sizes from 3/8" to 2 1/8" (nominal 2-1/4"), and in standard heights from 36" to 144". Unless otherwise specified, chain link fence fabric woven with a 2" mesh and 60" or less in height is knuckled at both selvages. For fabrics 72" and taller, the selvage is knuckled at one edge and twisted at the other. All fabrics woven into mesh sizes under 2" are knuckled at both selvages.

Installation: Install fence in accordance with ASTM Practice 567.

Maintenance: Periodic inspection is recommended but no routine maintenance is required.

SPECTRA POLY (VINYL CHLORIDE) (PVC) COATED STEEL CHAIN LINK FENCE FABRIC

EXTRUDED

ASTM A392, Federal Specification RR-F-191/1E Type I, AASHTO M-181 Type I

Table 1 - Zinc Coated Wire Characteristics

Nominal Coated Wire Diameter			Allowable Variance		Zinc Coating Weight, min.				Breaking Strength, minimum	
					Class 1		Class 2			
Gage	Inch	mm	Inch	mm	Oz/ft ²	g/m ²	Oz/ft ²	g/m ²	lbf	Newtons
6	0.192	4.88	±0.005	±0.13	1.2	366	2.00	6.10	2,170	9,650
9	0.148	3.76	±0.005	±0.13	1.2	366	2.00	6.10	1,290	5,740
11	0.120	3.05	±0.005	±0.13	1.2	366	---	---	850	3,780

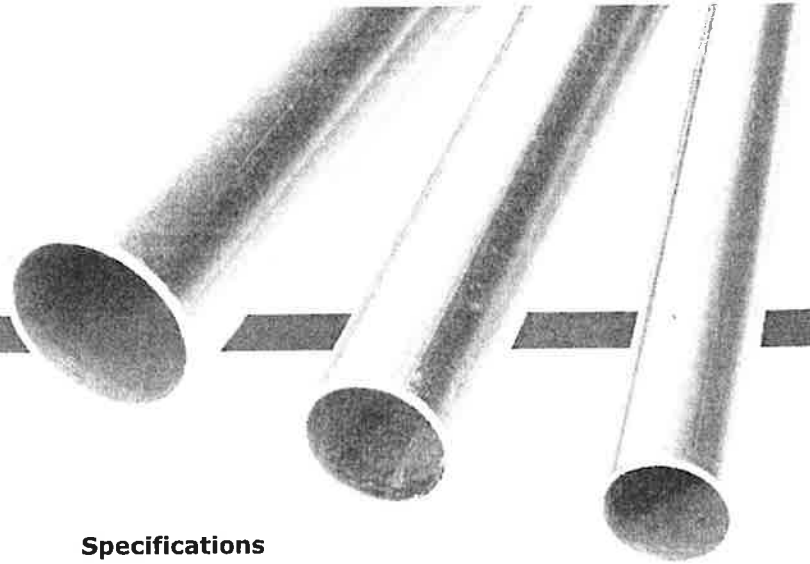
Table 2 - Zinc Coated Chain Link Fabric Recommendations

Mesh Sizes Available	Nominal Coated Wire Size	Recommended Use	Standard Heights of Fence Fabric
			inch
2-1/8"	11-1/2"	Residential	48" - 72"
2"	11	Residential/Light Commercial	36" - 144"
2"	9	Residential, Commercial, Industrial	36" - 144"
2"	6	Commercial, Industrial, Security	36" - 144"
1-3/4"	9	Heavy Commercial, Industrial	120" - 144"
1-3/4"	11	Tennis Court	120" - 144"
1-1/4"	11	Residential, Swimming Pool	36" - 144"
1-1/4"	9	Industrial	36" - 144"
1"	11	Heavy Industrial, Security	36" - 144"
1"	9	Security	36" - 144"
3/4"	11, 9	Heavy Security, Anti-Climb	36" - 144"
5/8"	11, 9		36" - 144"
1/2"	11, 9		36" - 144"
3/8"	11, 9		36" - 144"

Data from Chain Link Fence Manufacturers Institute
CLFMI Product Manual: CLF-PM0610 (updated March 2017)

Notes to tables:

- (1) Breaking strength (table 1) based on a minimum tensile strength of 75,000 psi.
- (2) Fabric with mesh size less than 1-1/4" is galvanized before weaving (GBW).
- (3) Chain-link fabric shall be furnished in the standard heights shown in Table 2. Custom order fabric is available in heights from 18" to and including 240" .



PT 40

> High Strength Pipe for Commercial, Industrial and High-Security

USPTM PT 40 is manufactured utilizing our new state-of-the-art process that produces pipe that exceeds strict industry standards and easily outperforms Schedule 40 pipe in both strength and corrosion resistance and in-line galvanized pipe in salt spray tests.

Manufacturing Process - PT 40 is manufactured using hot rolled steel. A triple layer of OD corrosion protection consisting of a steel-adhered zinc bath, an intermediate conversion coat and a clear vacuum sealed top coat is then added to provide the maximum in protection and durability. The ID is zinc coated prior to forming.

High Yield Strength 50,000 PSI Steel - and triple coat protection results in pipe that is lighter and outperforms Schedule 40 in strength and corrosion resistance. This unique process means that PT 40 is 37% stronger and 21% lighter than Schedule 40 tubing.

Made in U. S. A. - All PT 40 product from USPTM is manufactured in the USA and is in compliance with federal, state, and local specifications. We meet Buy America(n) requirements.

Available in Polyester and heavy mil Polyolefin Color Coat.

Specifications

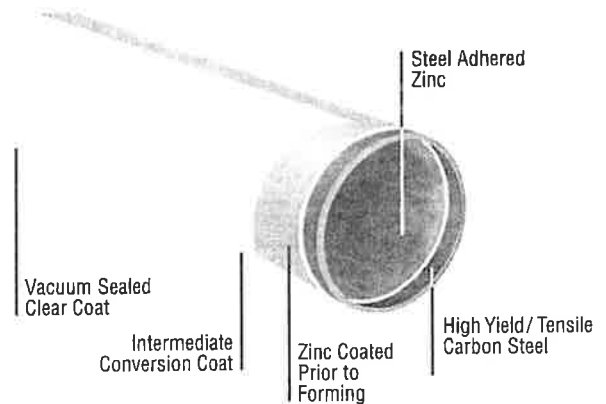
F-162 Federal Aviation
M-181 AASHTO

UFGS 02821
(supercedes CEGS 02821)

NFGS 02831 Dept. of the Navy

RR F-191
Chain Link Fence Specification

ASTM A513
ASTM A500 Grade B
50,000 Yield
ASTM F-1043 Group IC
ASTM A653
ASTM A924



PT 40 vs. Schedule 40

Posts		Outside Dimensions (in.)	Pipe Wall Thickness (in.)	Weight (lbs./ft)	Section Modulus (inches ³)	Yield Strength (psi)	Bending Moment (lbs. in.)	Bending Strength (lbs.) 6' Cantilever Load	Bundle Counts (pcs.)
1-7/8" O.D.	PT 40	1.900	.120	2.28	0.2810	50,000	14,050	195	61
	Sch 40	1.900	.145	2.72	0.3262	30,000	9,786	136	
2-3/8" O.D.	PT 40	2.375	.130	3.12	0.4881	50,000	24,405	339	37
	Sch 40	2.375	.154	3.65	0.5606	30,000	16,818	234	
2-7/8" O.D.	PT 40	2.875	.160	4.64	0.8778	50,000	43,890	610	19
	Sch 40	2.875	.203	5.79	1.0640	30,000	31,920	443	
3-1/2" O.D.	PT 40	3.500	.160	5.71	1.3408	50,000	67,040	931	19
	Sch 40	3.500	.216	7.58	1.7241	30,000	51,723	718	
4" O.D.	PT 40	4.000	.160	6.56	1.7819	50,000	89,095	1237	19
	Sch 40	4.000	.226	9.11	2.3940	30,000	71,820	998	
Top Rail								10' Supported	
1-5/8" O.D.	PT 40	1.660	.111	1.84	0.1961	50,000	9,805	327	61
	Sch 40	1.660	.140	2.27	0.2350	30,000	7,050	235	



MASTER HALCO CHAIN LINK FABRIC SELECTION

Chain Link Fabric Mesh and Wire Gauge Configurations with Wire Break Load

Mesh Size	6 gauge	9 gauge	11 gauge	11 1/2 gauge	*12 gauge
Inches (mm)	0.192 in. (4.88 mm)	0.148 in. (3.76 mm)	0.120 in. (3.05 mm)	0.113 in. (2.87 mm)	0.105 in. (2.67 mm)
2 (50.8)	S, HI	HI, I, C, R	C, R	R	R
1 3/4 (44.5)	S, HI	HI, I, T	T	R	R
1 1/4 (31.8)	NM	S, HI	I, C, R, P	C, R, P	R, P
1 (25.4)	NM	S, HI, I	HI, I, C	I, C, R	R
5/8 (15.8)	NM	HS	HS, S	S	S, HI
1/2 (12.7)	NM	HS	HS, S	S	S, HI
3/8 (9.5)	NM	NM	HS, S	HS, S	S, HI
Wire Breakload lbf	2170	1290	850	750	650
Wire Breakload N	9650	5740	3780	3340	2890

[2" 9 gauge is the most specified mesh for commercial and industrial applications]

General Applications: C = Commercial I = Industrial HI = Heavy Industrial
 R = Residential T = Tennis court S = Security HS = High Security
 NM = Not Manufactured P = residential swimming pool fabric

Polymer coated wire gauge is designated by the steel wire core gauge not the coated finish

*12 gauge core PVC coated fabric

Chain link fabric height: The standard heights produced are 3 feet up to 12 feet. Some fabrics can be special ordered in heights up to 20 feet.

Chain link fabric selvage (top and bottom edge finish): Knuckled selvage refers to bending the two adjacent pairs of wire back into a tight loop. Twist selvage refers to twisting the adjacent pairs of wire into a close helix of the equivalent to three full twists. The twist selvage has two sharp points for the purpose of enhancing security, for security applications the twist selvage can be specified for the top and bottom selvage. For consumer safety consideration, chain link fabric having 2 inch mesh in heights less than 72 inches and fabric having a mesh size less than 2 inches are manufactured having a knuckled finish at the top and bottom, "K&K". Chain link fabric having 2 inch mesh in heights 72 inches and greater is manufactured having a knuckle finish at one selvage and a twist selvage at the other, "K&T".

SAFETY ALERT: Specify K&K selvage for 2 inch mesh in heights 72 inches and greater for play area, parks, play fields, ball fields, pools etc.

Fence Fittings

ASTM F 626-08 Specification for Fence Fittings
Federal specification RR-F-191, AASHTO M-181



Basic Use:

Fence fittings include those items that are routinely used in conjunction with metallic coated chain link fabric and framework to complete a chain link fence installation.

Composition and Materials:

Fence fittings for chain link fence may be manufactured from steel or aluminum alloy. Steel items are galvanized after fabrication.

TECHNICAL DATA

All steel products are galvanized using zinc metal conforming to ASTM B6.

General:

The manufacturer, if requested, will supply samples and certification that all materials comply with the appropriate specifications.

Post and Line Caps:

Post and line caps are fabricated from pressed steel or cast iron and hot-dip galvanized with a minimum of 1.2oz/ft² (366 g/m²) of zinc coating of surface area, or from aluminum alloy 380.0 conforming to die cast Specification ASTM B85, or sand cast or permanent mold alloy 356.0 or 713.0 conforming to Specification ASTM B26/B26M or ASTM B108.

Rail and Brace Ends:

Rail and brace ends are fabricated from pressed steel or cast iron and galvanized with a minimum of 1.2 oz/ft² (366 g/m²) of zinc, or aluminum alloy 6063-T6 (ASTM B221 or B429). The thickness is 0.051 in. (1.3 mm) of steel or 0.062 in. (1.8 mm), of aluminum alloy, minimum length is 6 in. (152 mm).

Top Rail Sleeves:

Top rail sleeves shall be fabricated from pressed steel or round steel tubing and hot-dip galvanized with a minimum of 1.2oz /ft² (366 g/m²) of zinc coating surface area, or from aluminum alloy 6063-T6 (see Specification B221/B221M or Specification B429/B429M). Rail sleeve material shall be a minimum of 0.051 in. (1.3 mm) in thickness if steel, or a minimum of 0.062 in. (1.8mm) in thickness if aluminum alloy, and a minimum of 6 in. (152.4 mm) in length.

Tie Wires and Hog Rings:

Tie Wire used to tie fabric to frame work and Hog rings for attaching fabric to tension. Fabricated from steel wire galvanized minimum zinc coating 1.2oz/ft² (366 g/m²) 9 gauge (0.148) (3.76 mm) steel wire - lighter gauge steel wire may be used on lighter gauge mesh, see ASTM F626.

Tension and Brace Bands:

Tension and brace bands are fabricated from pressed steel or cast iron and galvanized with a minimum of 1.2 oz/ft² (366 g/m²) of zinc, or aluminum alloy 6063-T5, 6063-T6, or 8176-H19 (ASTM B211 or B221). Tension bands have a minimum material thickness of 14 ga. (0.074 in. (1.88 mm) and a minimum width of 3/4 in. (19 mm). Brace bands have a minimum material thickness of 12 ga. (0.105 in. 2.66 mm) and a minimum width of 3/4 in. (19 mm).

Tension bars:

Steel tension bars are fabricated from merchant quality steel and galvanized, minimum zinc coating weight 1.2oz/ft² (366 g/m²). Steel tension bars used to connect 1-3/4 in. (44 mm) and 2 in. (50 mm) mesh fabric to end, gate and corner posts are a minimum 3/16 in. (4.8 mm) by 5/8 in. (16 mm) for fabric heights to 5 ft. (1,520 mm) and 3/16 in. (16 mm) by 3/4 in. (19 mm) for fabric heights over 5 ft. (1,520 mm). Tension bars used to connect 1 in. mesh fabric to end; gate and corner posts are a minimum 1/4 in. (6 mm) by 3/8 in. (10 mm). The minimum length of a tension bar is 2 in. (50 mm) less than the full height of the chain link fabric.

Truss Rod and Tightener:

Steel truss rods shall be fabricated from 3/8 in. (9.5mm) merchant quality rod and it and all related devices shall be hot-dip galvanized after threading with a minimum of 1.2oz/ft² (366 g/m²) of zinc coating and shall withstand 2000lb (900 kg) of tension.

Barbed Wire Arms:

Barbed wire arms shall be fabricated from pressed steel or cast iron, and hot-dip galvanized with a minimum 1.2 oz/ft² (366 g/m²) of zinc coating. Barbed wire arms are available as various types.

Tension Wire:

Tension wire per ASTM A817 Specification for Metallic-Coated Steel Wire for Chain-Link Fence Fabric and Marcelled Tension Wire, shall be 7 gauge (0.177 + 0.005 in. (4.50 + 0.13 mm) is either zinc or aluminum coated:

Type I - Aluminum-coated (aluminized), minimum average coating weight 0.40oz/ft² (122 g/m²).

Type II - Zinc-coated (galvanized), Class 4, minimum average coating weight 1.2oz/ft² (366 g/m²).

Minimum breaking strength is 1,950 lbf [8,670 N].

Standard Specifications

ASTM A641/A641M Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

ASTM A809 Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire

ASTM A817 Specification for Metallic-Coated Steel Wire for Chain-Link Fence Fabric and Marcelled Tension Wire

ASTM B26/B26M Specifications for Aluminum-Alloy Sand Castings

ASTM B85 Specification for Aluminum-Alloy Permanent Mold Casting

ASTM B117 Practice for Operating Salt Spray (Fog) Apparatus

ASTM B209/B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate

ASTM B211/B211M Specification for Aluminum and Aluminum-Alloy Rolled or Cold-Finished Bar, Rod, and Wire

ASTM B221/B221M Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

ASTM B429/B429M Specification for Aluminum-Alloy Extruded Structural Pipe and Tube

ASTM F552 Terminology Relating to Chain Link Fencing

ASTM F626 Standard Specification for Fence Fittings

ASTM F668 Specification for Polyvinyl Chloride (PVC), Polyolefin and Other Polymer-Coated Steel Chain Link Fence.

ASTM F934 Specification for Colors for Polymer-Coated Chain Link Fence Materials

Federal specification RR-F-191

American Association of State Highway Transportation Officials M-181 Chain Link Fence

Fence Fittings

ASTM F 626-08 Specification for Fence Fittings
 Federal specification RR-F-191, AASHTO M-181

COLOR COATING OF FITTINGS:

Fittings may be color coated with a polymer to match the fabric, when so specified. Standard colors are as contained in ASTM F934. Painted fittings are not acceptable. The exterior surface of the fittings shall be polymer coated with a minimum 0.006-in (0.152-mm), maximum 0.015-in (0.381-mm) thickness when so specified. Ferrous fittings shall be hot-dip galvanized prior to application of color coating

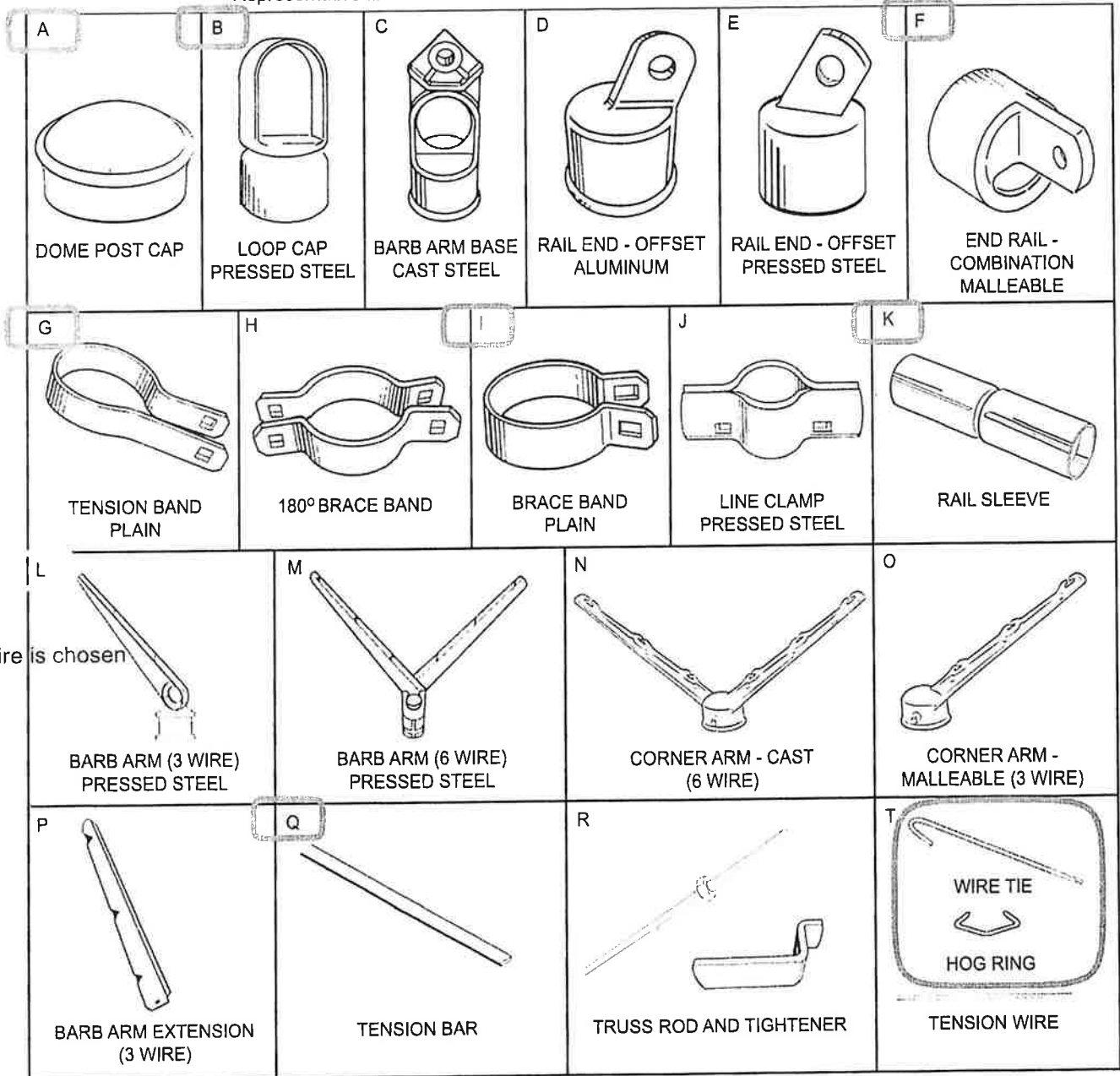
Availability:

Chain link fittings are available for shipment throughout the United States and worldwide.

MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

Representative Illustrations of Common Chain Link Fence Fittings (not to scale)



Revised September 2020

1.888.643.3623
 www.MasterHalco.com
 Contact@MasterHalco.com

12 YEAR LIMITED WARRANTY

**GALVANIZED
CHAIN-LINK FENCE SYSTEM**

by MASTER-HALCO

WHAT IS COVERED BY THIS LIMITED WARRANTY . . .

Master-Halco warrants the original purchaser and not any other purchaser, or subsequent owner, that its GALVANIZED CHAIN-LINK Fence System is free from defects in materials or workmanship and from the development of red rust over five percent (5%) of the surface for a period of twelve (12) years from date of purchase. The chain-link fence fabric must be 11-1/2 gauge (.113") or heavier meeting the minimum requirements outlined in American Society of Testing and Materials (ASTM) Specification A 392. The terminal and line posts must be 16 gauge (.065") or heavier, top rail must be 17 gauge (.055") or heavier meeting the minimum strength requirements for residential framework outlined in ASTM Specification F 761. The chain-link fence system must be installed according to the minimum requirements outlined in ASTM Specification F 567. This warranty applies to fence systems constructed entirely of components manufactured and/or supplied by Master-Halco.

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY . . .

Damage from abnormal or improper use or design, accident, alteration, neglect, abuse, abrasion, air pollutants, improper service or installation, or damage caused by flood, fire or act of God is not covered by this limited warranty. Use in harsh industrial, coastal or marine environments is not warranted.

PROTECTING YOUR RIGHTS . . .

To protect your rights under this warranty, please return the attached registration form* to Master-Halco, with the certification of your dealer, completed within 30 days of purchase. Warranty coverage is not conditional upon the return of the warranty registration form, provided you can furnish proof that the GALVANIZED CHAIN-LINK Fence System was supplied by Master-Halco and meets all of the requirements. A properly filled out warranty registration form, completed by you and your dealer, is your best proof of coverage under this limited warranty.

GENERAL CONDITIONS AND EXCLUSIONS . . .

THE AMOUNT OF YOUR RESTITUTION WILL NOT INCLUDE LABOR TO INSTALL THE REPLACEMENT COMPONENTS, DELIVERY CHARGES, SALES TAX OR ANY OTHER CHARGES, NOR IS MASTER-HALCO REQUIRED TO PROVIDE SUCH LABOR OR SERVICE.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. MASTER-HALCO MAKES NO OTHER EXPRESS WARRANTIES, AND DOES NOT AUTHORIZE ANY OTHER PERSON OR AGENT TO MAKE ANY OTHER EXPRESS WARRANTIES. MASTER-HALCO NEITHER ASSUMES NOR AUTHORIZES ANY OTHER LIABILITY OR OBLIGATION IN CONNECTION WITH THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS PRODUCT, IS LIMITED IN DURATION TO THE TWELVE (12) YEAR TERM OF THIS LIMITED WARRANTY. IN NO EVENT SHALL MASTER-HALCO BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES ARISING OUT OF OR CONNECTED WITH THE PURCHASE OR USE OF THIS PRODUCT OR FOR ANY BREACH OF WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. THIS WARRANTY IS ONLY APPLICABLE TO SYSTEMS INSTALLED IN THE UNITED STATES AND CANADA.

40 YEARS OF EXCELLENCE

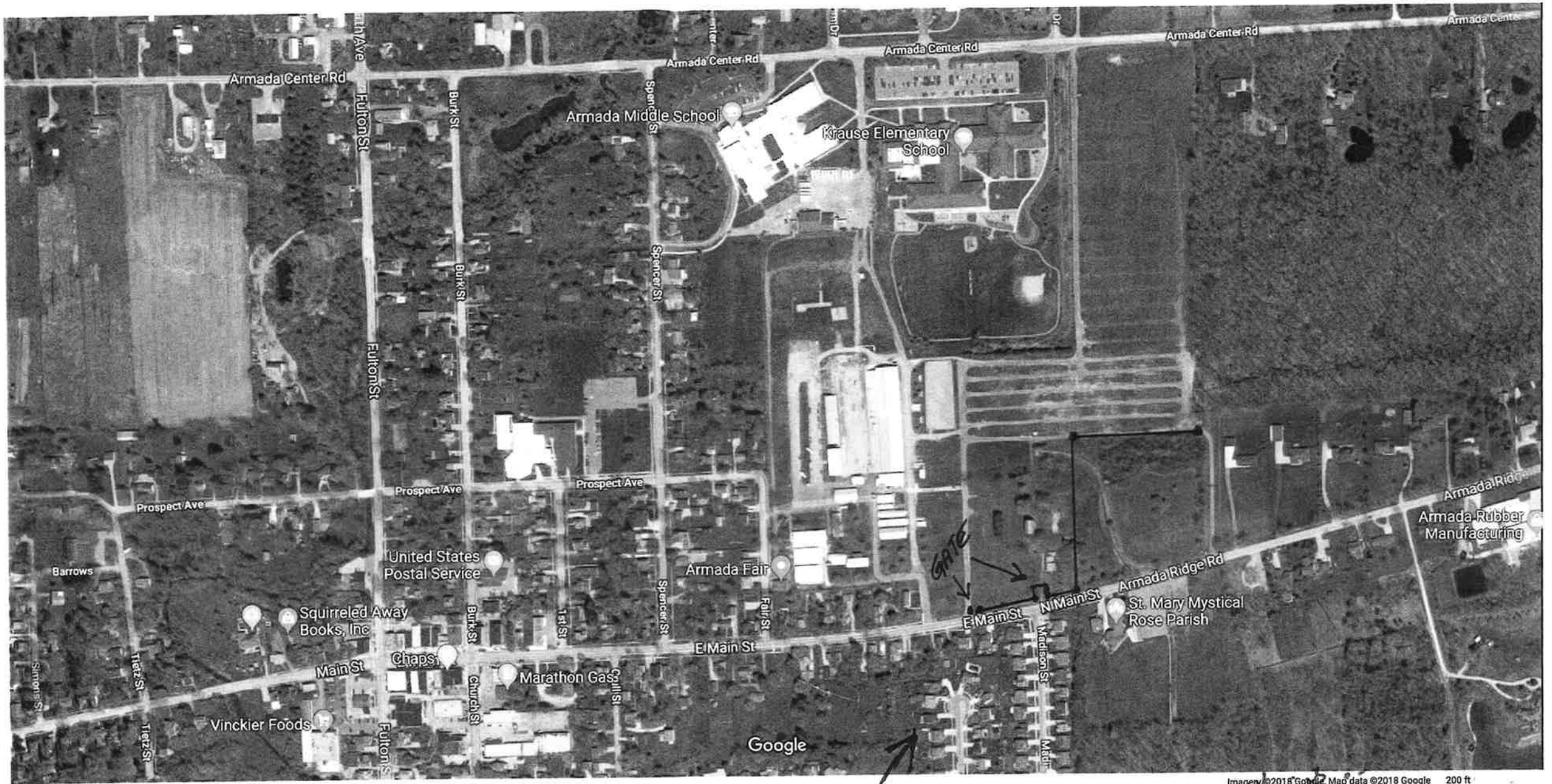
Master-Halco is North America's largest manufacturer and distributor of fencing materials. Over the last 40 years, Master-Halco has been the provider of choice for thousands of professional fence contractors and quality building material retailers.

At Master-Halco we provide a variety of high quality fence solutions: from chain-link to wood fencing; ornamental iron to vinyl; swimming pool fence to dog kennels; you can trust all your fencing needs to Master-Halco.

*Registration form is available from your dealer and/or contractor.



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BOUNDARY PROPERTY LINES

PROPOSED LAYOUT OF FENCING TO BOUNDARY PROPERTY LINES

