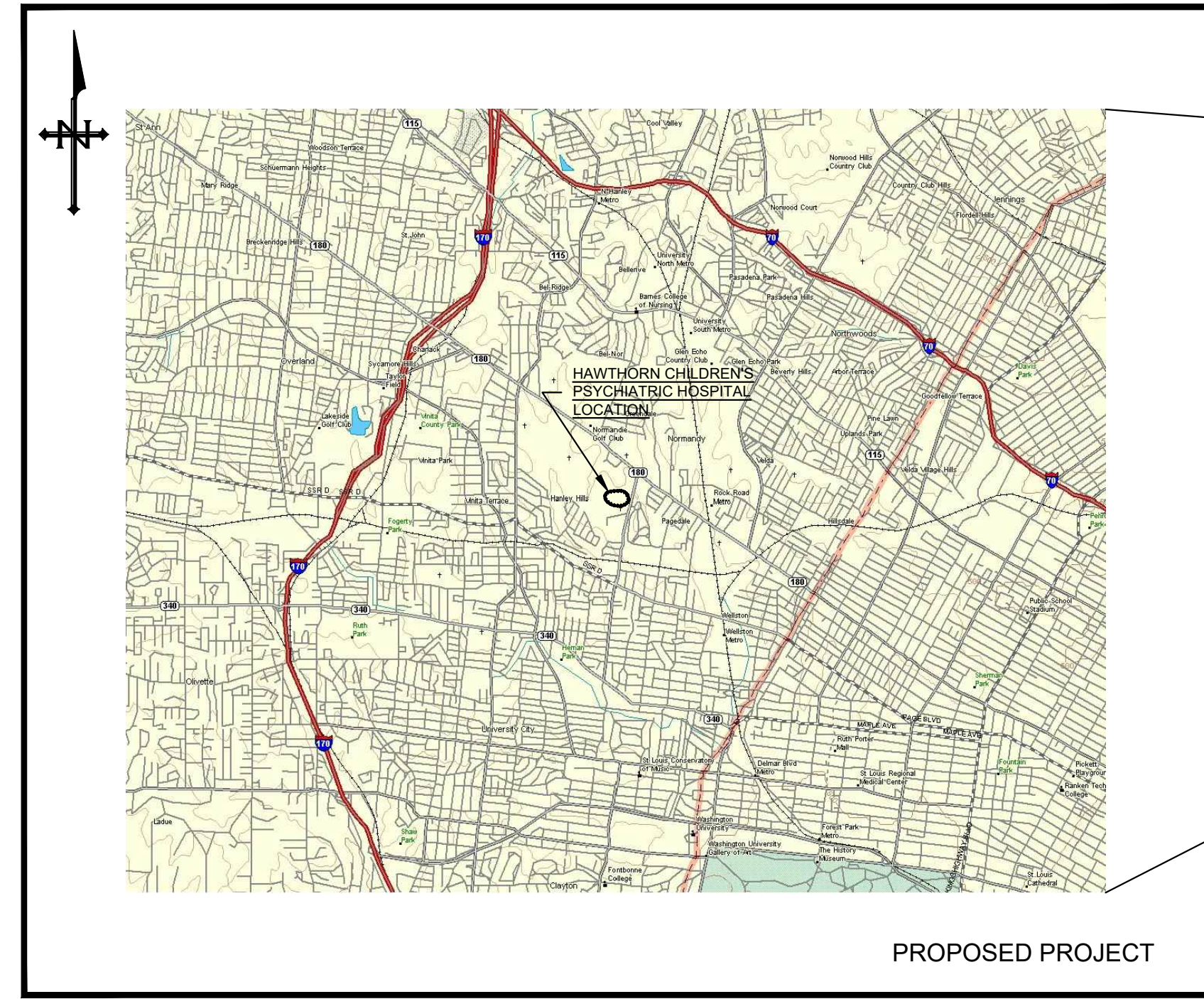
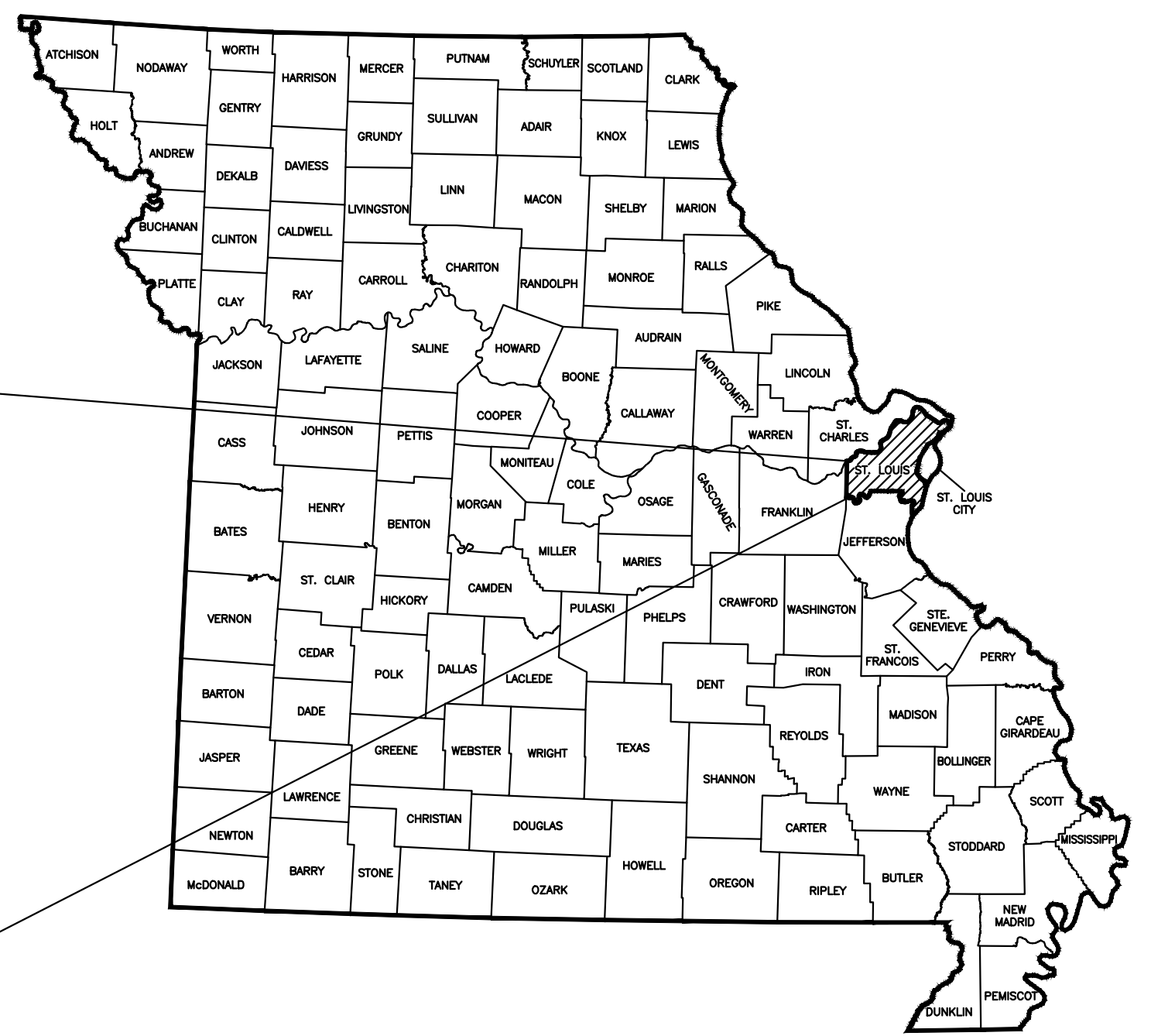


# REPLACE INNER PERIMETER FENCE, ADMINISTRATION BUILDING HAWTHORN CHILDREN'S PSYCHIATRIC HOSPITAL ST. LOUIS, MISSOURI

DRAWING SHEET INDEX		
SHEET	DESCRIPTION	NAME
1	COVER SHEET	G-001
2	NOTES AND ABBREVIATIONS	C-001
3	FENCE SITE PLAN	C-101
4	FENCE DETAILS	C-501



VICINITY MAP



OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON, GOVERNOR

DEPARTMENT OF  
MENTAL HEALTH

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: HURST-ROSCHE, INC.

PROJECT NUMBER: M2415-01

SITE NUMBER: 7390  
ASSET NUMBER: 6517390002

**UNDERGROUND UTILITY NOTE**

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN SHOWN ARE FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN THE NEW WORK AND THE EXISTING FACILITIES, STRUCTURES, OR UTILITIES MUST BE CONSIDERED APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL, AND/OR GOVERNING UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR EXACT LOCATIONS AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN.

STATE OF MISSOURI  
ZACHARIAH A. YORK  
ENGINEER  
NO. PE-200501068

SIGNATURE: [Signature]  
DATE: 08-21-2024  
LICENSE EXPIRES: 12-31-2025  
PROFESSIONAL SEAL

Hurst-Rosche, Inc.  
PROFESSIONAL DESIGN NUMBER: 000372  
3675 W. Outer Rd., Suite 205  
Arnold, MO 63010  
636.333.3351 t  
www.hurst-rosche.com

HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NASHVILLE, TN

SHEET NUMBER:  
**G-001**  
01 OF 04 SHEETS  
AUGUST 21, 2024





ZACHARIAH A. YORK - ENGINEER  
MOM PE-2005001068

SIGNATURE \_\_\_\_\_

DATE 08-21-2024

LICENSE EXPIRES 12-31-2025

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DIVISION OF FACILITIES  
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DESIGN AND CONSTRUCTION  
DEPARTMENT OF  
MENTAL HEALTH

REPLACE INNER  
PERIMETER FENCE,  
ADMINISTRATION BUILDING  
HAWTHORN CHILDREN'S  
PSYCHIATRIC HOSPITAL  
1901 PENNSYLVANIA AVENUE  
ST. LOUIS, MISSOURI 63133

PROJECT # M2415-01

SITE # 7390

ASSET # 6517390002

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ISSUE DATE: 08/21/2024

CAD DWG FILE: C-101.DWG  
DRAWN BY: JMA  
CHECKED BY: ZAY  
DESIGNED BY: ZAY

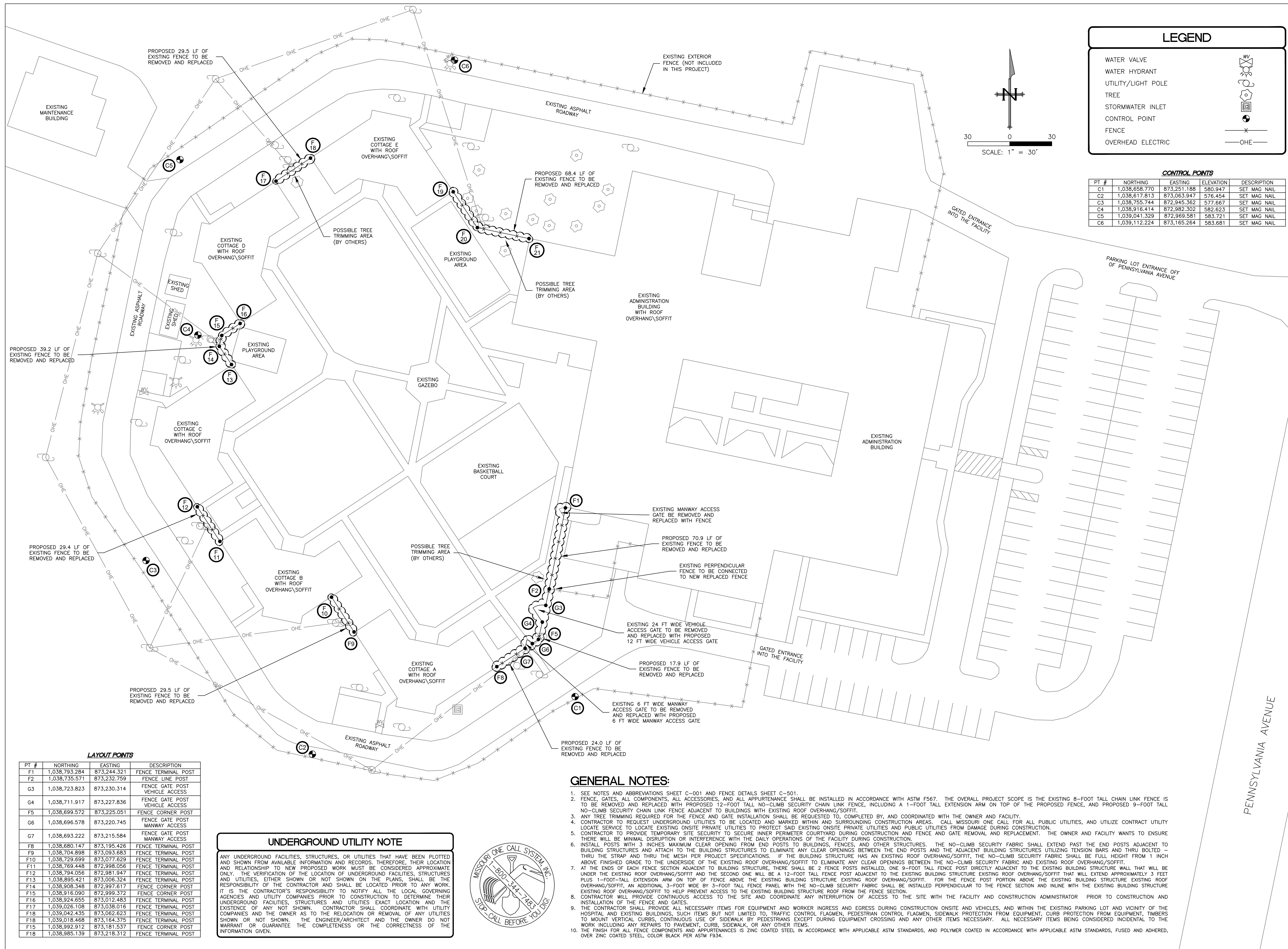
SHEET TITLE:

FENCE  
SITE PLAN

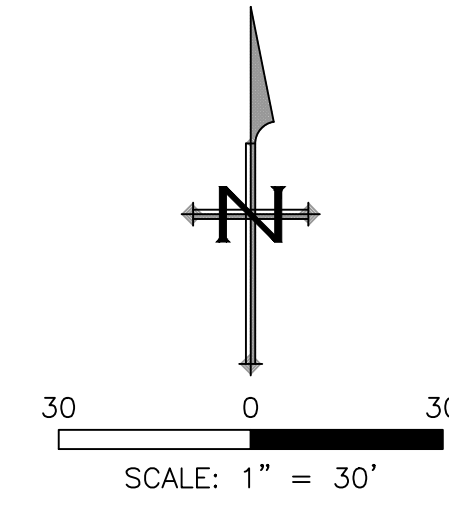
SHEET NUMBER:

C-101

03 OF 04 SHEETS  
08/21/2024



LEGEND	
WATER VALVE	
WATER HYDRANT	
UTILITY/LIGHT POLE	
TREE	
STORMWATER INLET	
CONTROL POINT	
FENCE	
OVERHEAD ELECTRIC	



CONTROL POINTS				
PT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
C1	1,038,658.770	873,251.188	580.947	SET MAG NAIL
C2	1,038,617.813	873,063.947	576.454	SET MAG NAIL
C3	1,038,755.744	872,945.362	577.667	SET MAG NAIL
C4	1,038,916.414	872,983.302	582.623	SET MAG NAIL
C5	1,039,041.329	872,969.581	583.721	SET MAG NAIL
C6	1,039,112.224	873,165.264	583.681	SET MAG NAIL

LAYOUT POINTS				
PT #	NORTHING	EASTING	DESCRIPTION	
F1	1,038,793.284	873,244.321	FENCE TERMINAL POST	
F2	1,038,735.571	873,232.759	FENCE LINE POST	
G3	1,038,723.823	873,230.314	FENCE GATE POST VEHICLE ACCESS	
G4	1,038,711.917	873,227.836	FENCE GATE POST VEHICLE ACCESS	
F5	1,038,699.572	873,225.051	FENCE CORNER POST	
G6	1,038,696.578	873,220.745	FENCE GATE POST MANWAY ACCESS	
G7	1,038,769.448	873,215.584	FENCE GATE POST MANWAY ACCESS	
F8	1,038,680.147	873,195.426	FENCE TERMINAL POST	
F9	1,038,704.898	873,093.683	FENCE TERMINAL POST	
F10	1,038,729.699	873,077.629	FENCE TERMINAL POST	
F11	1,038,769.448	872,998.056	FENCE TERMINAL POST	
F12	1,038,794.056	872,981.947	FENCE TERMINAL POST	
F13	1,038,895.421	873,006.324	FENCE TERMINAL POST	
F14	1,038,908.348	872,997.617	FENCE CORNER POST	
F15	1,038,916.090	872,999.372	FENCE CORNER POST	
F16	1,038,924.655	873,012.483	FENCE TERMINAL POST	
F17	1,039,026.108	873,038.016	FENCE TERMINAL POST	
F18	1,039,042.435	873,062.623	FENCE TERMINAL POST	
F18	1,039,018.468	873,164.375	FENCE TERMINAL POST	
F15	1,038,992.912	873,181.537	FENCE CORNER POST	
F18	1,038,985.139	873,218.312	FENCE TERMINAL POST	

**UNDERGROUND UTILITY NOTE**

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS, THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER/ARCHITECT AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.



- GENERAL NOTES:**
- SEE NOTES AND ABBREVIATIONS SHEET C-001 AND FENCE DETAILS SHEET C-501.
  - FENCE, GATES, ALL COMPONENTS, ALL ACCESSORIES, AND ALL APPURTENANCE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F567. THE OVERALL PROJECT SCOPE IS THE EXISTING 8-FOOT TALL CHAIN LINK FENCE IS TO BE REMOVED AND REPLACED WITH PROPOSED 12-FOOT TALL NO-CRIMP SECURITY CHAIN LINK FENCE, INCLUDING A 1-FOOT TALL EXTENSION ARM ON TOP OF THE PROPOSED FENCE, AND PROPOSED 9-FOOT TALL NO-CRIMP SECURITY CHAIN LINK FENCE ADJACENT TO BUILDINGS WITH EXISTING ROOF OVERHANG/SOFFIT.
  - ANY TREE TRIMMING REQUIRED FOR THE FENCE AND GATE INSTALLATION SHALL BE REQUESTED TO, COMPLETED BY, AND COORDINATED WITH THE OWNER AND FACILITY.
  - CONTRACTOR TO REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND SURROUNDING CONSTRUCTION AREAS. CALL MISSOURI ONE CALL FOR ALL PUBLIC UTILITIES, AND UTILIZE CONTRACT UTILITY LOCATE SERVICE TO LOCATE EXISTING ON-SITE PRIVATE UTILITIES TO PROTECT SAID EXISTING ON-SITE PRIVATE UTILITIES AND PUBLIC UTILITIES FROM DAMAGE DURING CONSTRUCTION.
  - CONTRACTOR TO PROVIDE TEMPORARY SITE SECURITY TO SECURE INNER PERIMETER COURTYARD DURING CONSTRUCTION AND FENCE AND GATE REMOVAL AND REPLACEMENT. THE OWNER AND FACILITY WANTS TO ENSURE THERE WILL BE MINIMAL DISRUPTION OR INTERFERENCE WITH THE DAILY OPERATIONS OF THE FACILITY DURING CONSTRUCTION.
  - INSTALL POSTS WITH 3 INCHES MAXIMUM CLEAR OPENING FROM END POSTS TO BUILDINGS, FENCES, AND OTHER STRUCTURES. THE NO-CRIMP SECURITY FABRIC SHALL EXTEND PAST THE END POSTS ADJACENT TO BUILDING STRUCTURES AND ATTACH TO THE BUILDING STRUCTURES TO ELIMINATE ANY CLEAR OPENINGS BETWEEN THE END POSTS AND THE ADJACENT BUILDING STRUCTURES UTILIZING TENSION BARS AND THRU BOLTED - THRU THE STRAP AND THRU THE MESH PER PROJECT SPECIFICATIONS. IF THE BUILDING STRUCTURE HAS AN EXISTING ROOF OVERHANG/SOFFIT, THE NO-CRIMP SECURITY FABRIC SHALL BE FULL HEIGHT FROM 1 INCH ABOVE FINISHED GRADE TO THE UNDERSIDE OF THE EXISTING ROOF OVERHANG/SOFFIT TO ELIMINATE ANY CLEAR OPENINGS BETWEEN THE NO-CRIMP SECURITY FABRIC AND EXISTING ROOF OVERHANG/SOFFIT.
  - AT THE ENDS OF EACH FENCE SECTION ADJACENT TO BUILDING STRUCTURE, THERE SHALL BE 2 FENCE POSTS INSTALLED, ONE 9-FOOT TALL FENCE POST DIRECTLY ADJACENT TO THE EXISTING BUILDING STRUCTURE WALL THAT WILL BE UNDER THE EXISTING ROOF OVERHANG/SOFFIT AND THE SECOND ONE WILL BE A 12-FOOT TALL FENCE POST ADJACENT TO THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT THAT WILL EXTEND APPROXIMATELY 3 FEET PLUS 1-FOOT-TALL EXTENSION ARM ON TOP OF FENCE ABOVE THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT. FOR THE FENCE POST PORTION ABOVE THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT, AN ADDITIONAL 3-FOOT WIDE BY 3-FOOT TALL FENCE PANEL WITH THE NO-CRIMP SECURITY FABRIC SHALL BE INSTALLED PERPENDICULAR TO THE FENCE SECTION AND INLINE WITH THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT TO HELP PREVENT ACCESS TO THE EXISTING BUILDING STRUCTURE ROOF FROM THE FENCE SECTION.
  - CONTRACTOR WILL PROVIDE CONTINUOUS ACCESS TO THE SITE AND COORDINATE ANY INTERRUPTION OF ACCESS TO THE SITE WITH THE FACILITY AND CONSTRUCTION ADMINISTRATOR PRIOR TO CONSTRUCTION AND INSTALLATION OF THE FENCE AND GATES.
  - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ITEMS FOR EQUIPMENT AND WORKER INGRESS AND EGRESS DURING CONSTRUCTION ON-SITE AND VEHICLES, AND WITHIN THE EXISTING PARKING LOT AND VICINITY OF THE HOSPITAL AND EXISTING BUILDINGS, SUCH ITEMS BUT NOT LIMITED TO, TRAFFIC CONTROL FLAGMEN, PEDESTRIAN CONTROL FLAGMEN, SIDEWALK PROTECTION FROM EQUIPMENT, CURB PROTECTION FROM EQUIPMENT, TIMBERS TO MOUNT VERTICAL CURBS, CONTINUOUS USE OF SIDEWALK BY PEDESTRIANS EXCEPT DURING EQUIPMENT CROSSING AND ANY OTHER ITEMS NECESSARY. ALL NECESSARY ITEMS BEING CONSIDERED INCIDENTAL TO THE WORK INCLUDING ANY REPAIRS TO PAVEMENT, CURB, SIDEWALK, OR ANY OTHER ITEMS.
  - THE FINISH FOR ALL FENCE COMPONENTS AND APPURTENANCES IS ZINC COATED STEEL, IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS, AND POLYMER COATED IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS, FUSED AND ADHERED, OVER ZINC COATED STEEL, COLOR BLACK PER ASTM F934.



ZACHARIAH A. YORK - ENGINEER  
MOM PE-2005001068  
SIGNATURE  
08-21-2024  
DATE  
12-31-2025  
LICENSE EXPIRES

PROFESSIONAL SEAL



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PROJECT # M2415-01  
SITE # 7390  
ASSET # 6517390002

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CAD DWG FILE: C-501.DWG  
DRAWN BY: JMA  
CHECKED BY: ZAY  
DESIGNED BY: ZAY

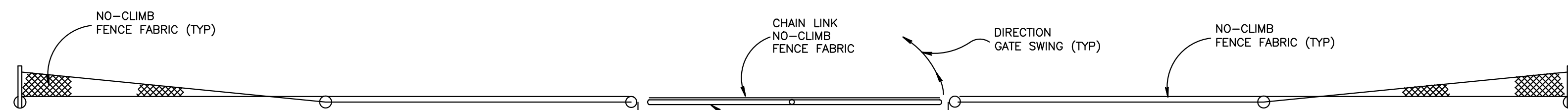
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FENCE  
DETAILS

SHEET NUMBER:

C-501

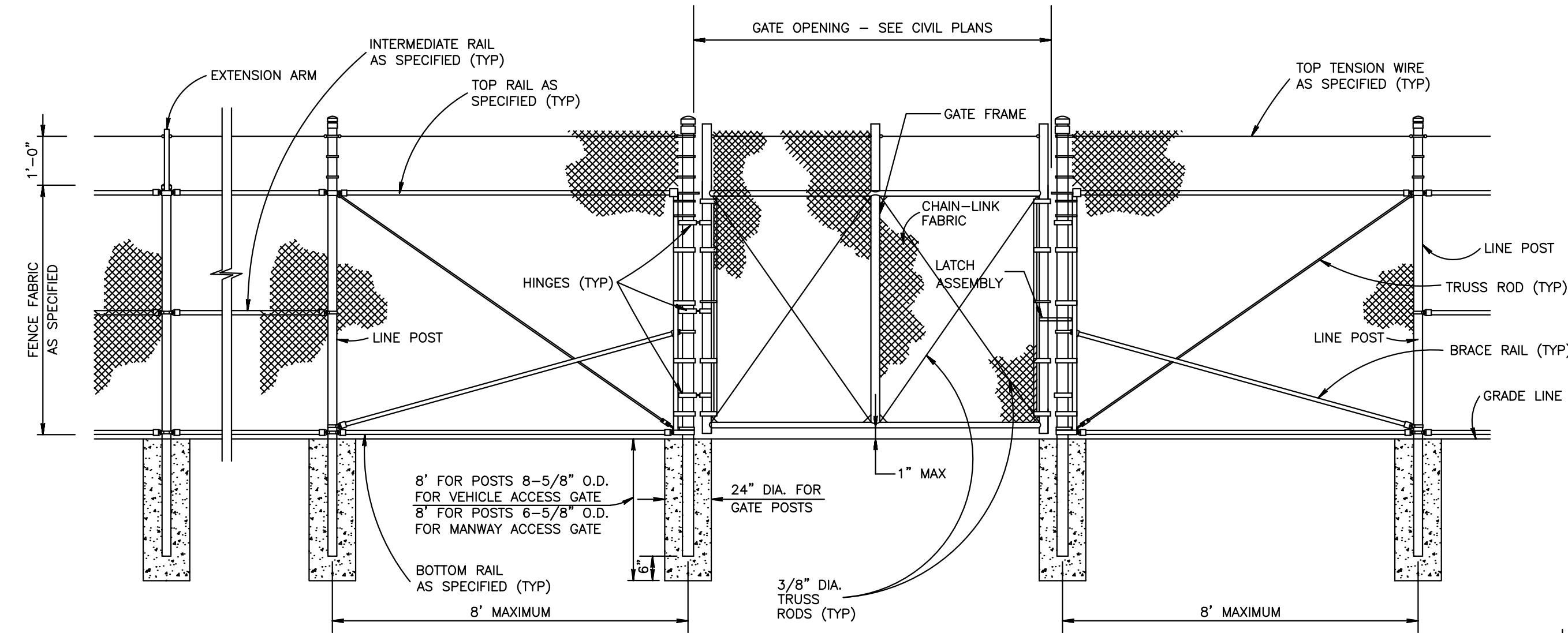
04 OF 04 SHEETS  
08/21/2024



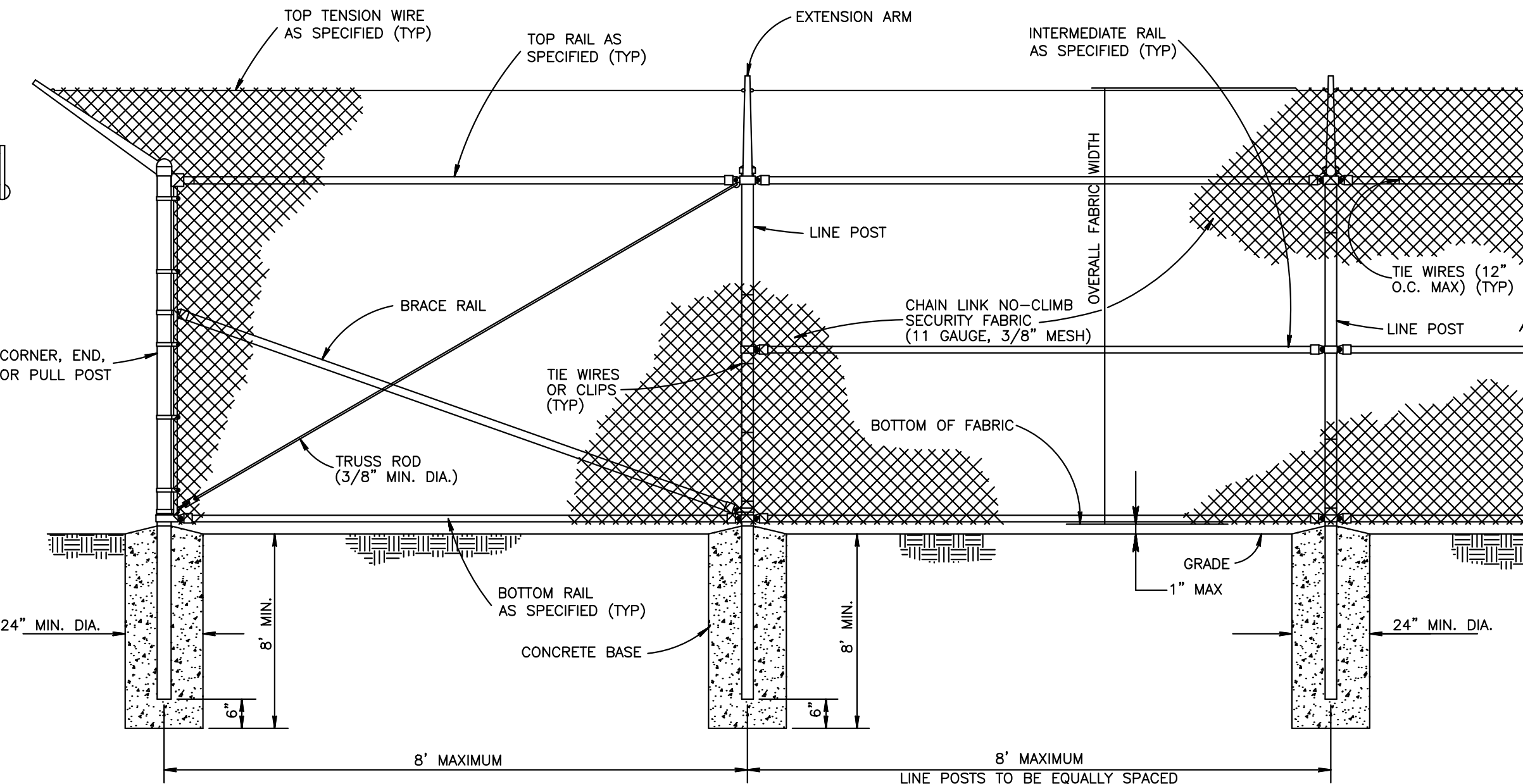
**GATE NOTES:**

1. PROPOSED 12-FOOT WIDE VEHICLE ACCESS GATE SHALL BE FULL HEIGHT TO MATCH THE OVERALL NO-CLIMB SECURITY FENCE HEIGHT OF 12 FEET PLUS 1-FOOT-TALL EXTENSION ARM ON TOP OF THE FENCE.
2. PROPOSED 6-FOOT WIDE MANWAY ACCESS GATE SHALL BE 7-FOOT TALL WITH THE REMAINDER OF THE FENCE HEIGHT ABOVE THE MANWAY ACCESS GATE BEING THE PROPOSED NO-CLIMB SECURITY FENCE (APPROXIMATELY 5 FEET HEIGHT) PLUS 1-FOOT-TALL EXTENSION ARM ON TOP OF THE FENCE.

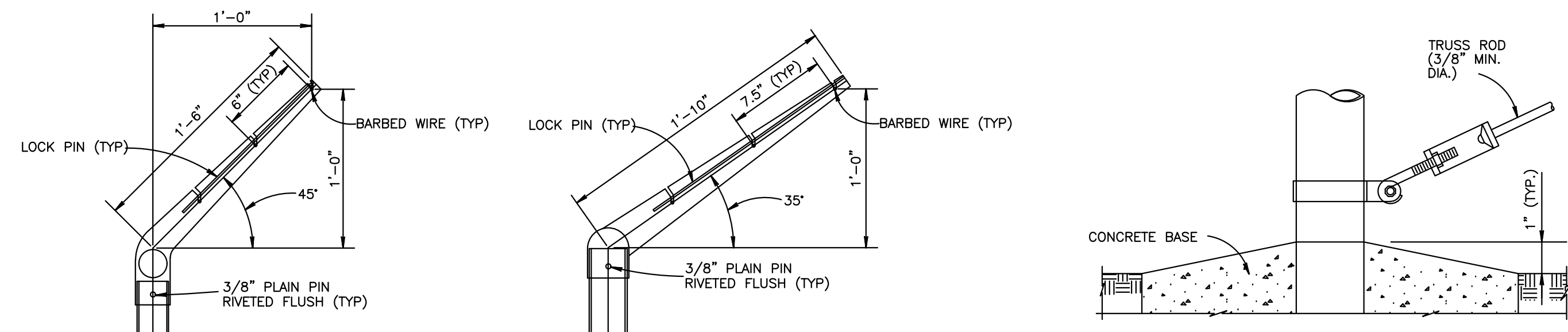
CHAIN LINK GATE PLAN  
NOT TO SCALE



CHAIN LINK GATE ELEVATION  
NOT TO SCALE



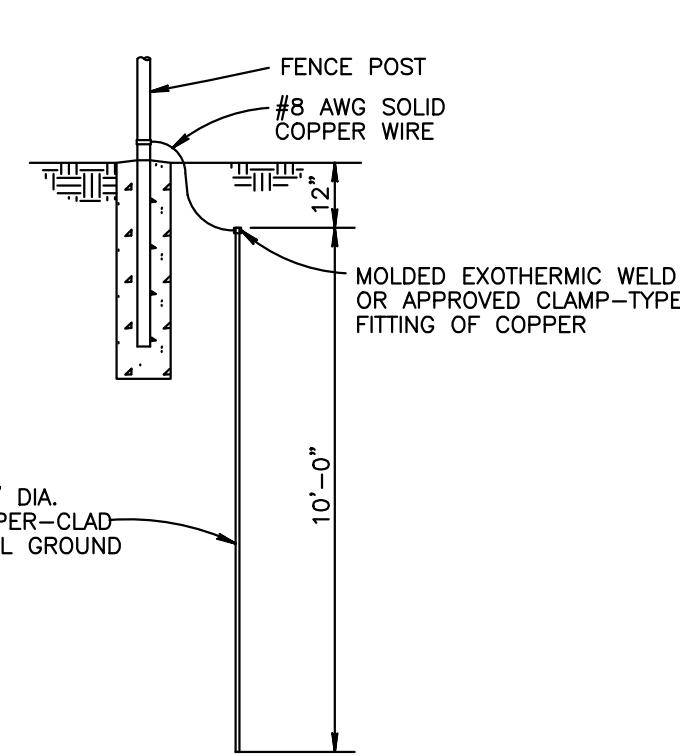
CHAIN LINK SECURITY FENCE DETAIL  
NOT TO SCALE



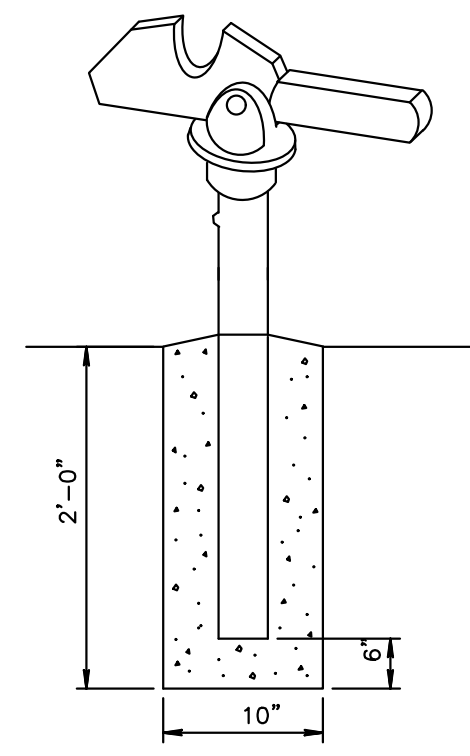
LINE POST

CORNER POST

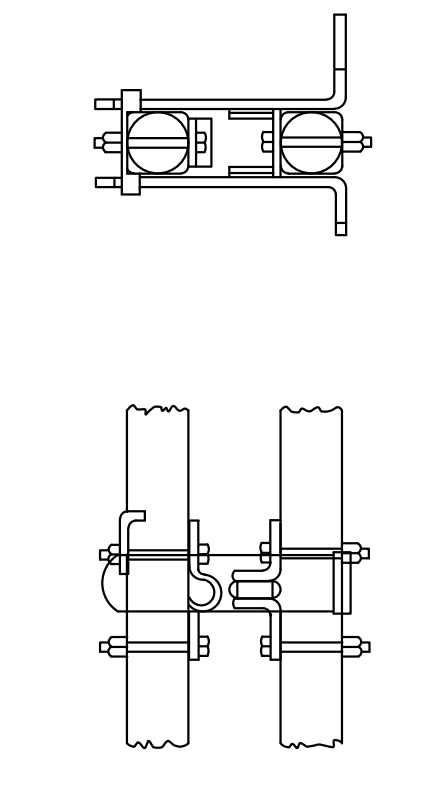
TRUSS ROD AND BAND



GROUNDING DETAIL  
NOT TO SCALE



GATE KEEPER  
(TO HOLD GATE OPEN)  
NOT TO SCALE

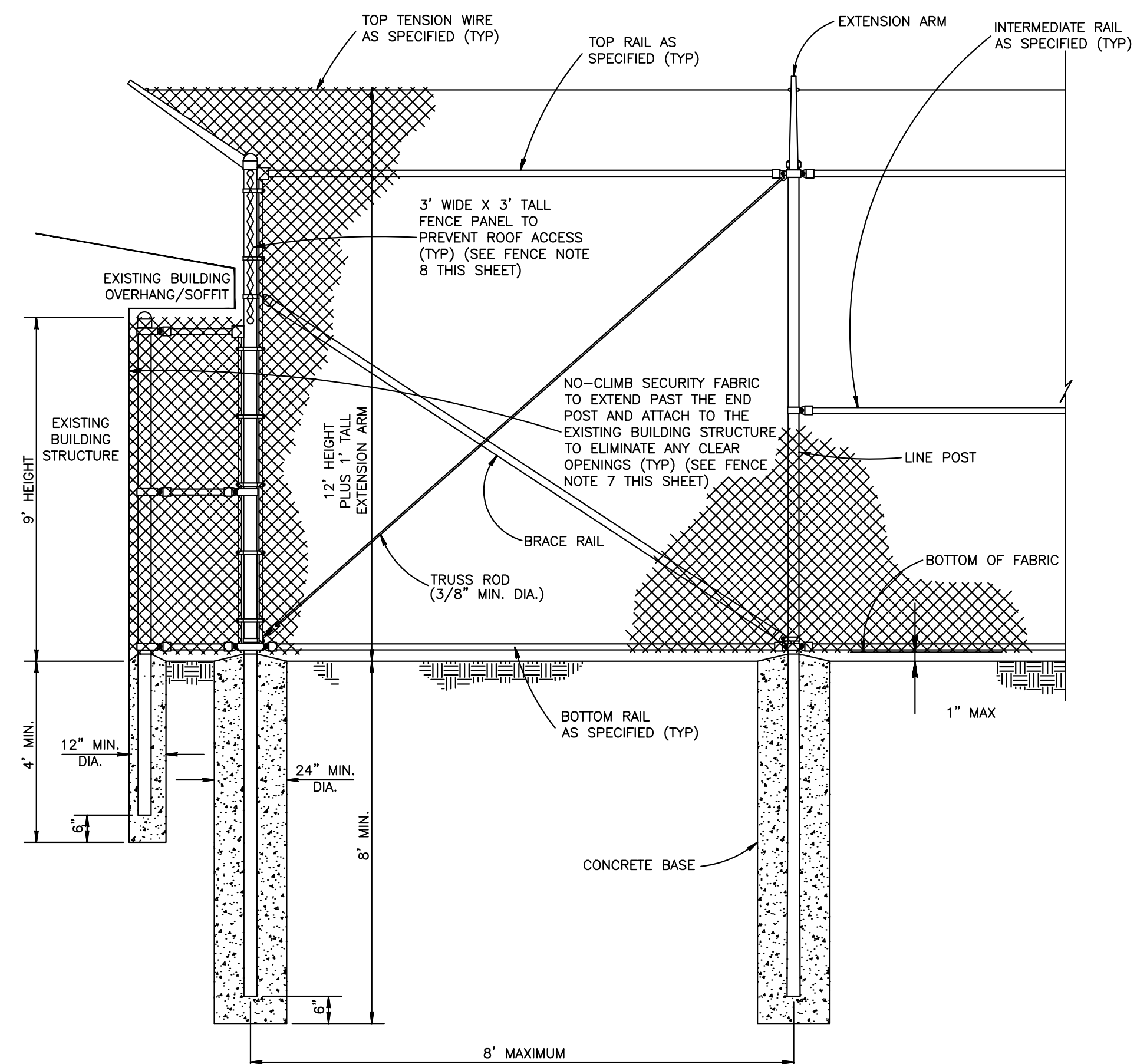


LATCH ASSEMBLY  
NOT TO SCALE

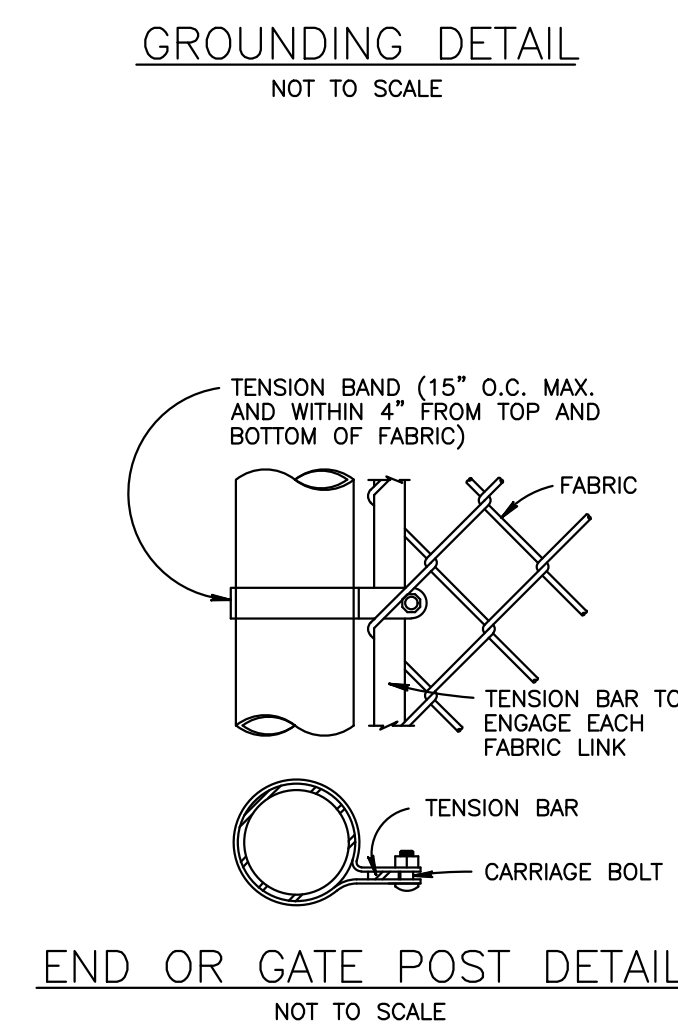
**FENCE NOTES:**

1. THE OVERALL PROJECT SCOPE IS THE EXISTING 8-FOOT TALL CHAIN LINK FENCE IS TO BE REMOVED AND REPLACED WITH PROPOSED 12-FOOT TALL NO-CLIMB SECURITY CHAIN LINK FENCE, INCLUDING A 1-FOOT TALL EXTENSION ARM ON TOP OF THE PROPOSED FENCE, AND PROPOSED 9-FOOT TALL NO-CLIMB SECURITY CHAIN LINK FENCE ADJACENT TO BUILDINGS WITH EXISTING ROOF OVERHANG/SOFFIT.
2. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
3. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED. OWNER SHALL SUPPLY PAD LOCKS.
4. ALL GATE FRAMES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900. GATE FRAMES SHALL BE OF WELDED CONSTRUCTION. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL-WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
5. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE OUTSIDE OF THE FENCE ALIGNMENT ON THE OUTSIDE OF THE SECURED COURTYARD SIDE. CHAIN LINK NO-CLIMB SECURITY FABRIC SHALL BE PLACED ON THE INSIDE OF THE FENCE ALIGNMENT ON THE SECURED COURTYARD SIDE.
6. FENCE SHALL BE INSTALLED PER ASTM F567. CONTRACTOR TO ADJUST PROPOSED FENCE POST LOCATIONS TO AVOID EXISTING AND PROPOSED UNDERGROUND PUBLIC AND PRIVATE UTILITIES.
7. INSTALL POSTS WITH 3 INCHES MAXIMUM CLEAR OPENING FROM END POSTS TO BUILDINGS, FENCES, AND OTHER STRUCTURES. THE NO-CLIMB SECURITY FABRIC SHALL EXTEND PAST THE END POSTS ADJACENT TO BUILDING STRUCTURES AND ATTACH TO THE BUILDING STRUCTURES TO ELIMINATE ANY CLEAR OPENINGS BETWEEN THE END POSTS AND THE ADJACENT BUILDING STRUCTURES UTILIZING TENSION BARS AND THRU BOLTED - THRU THE STRAP AND THRU THE MESH PER PROJECT SPECIFICATIONS. IF THE BUILDING STRUCTURE HAS AN EXISTING ROOF OVERHANG/SOFFIT, THE NO-CLIMB SECURITY FABRIC SHALL BE FULL HEIGHT FROM 1 INCH ABOVE FINISHED GRADE TO THE UNDERSIDE OF THE EXISTING ROOF OVERHANG/SOFFIT TO ELIMINATE ANY CLEAR OPENINGS BETWEEN THE NO-CLIMB SECURITY FABRIC AND EXISTING ROOF OVERHANG/SOFFIT.
8. AT THE ENDS OF EACH FENCE SECTION ADJACENT TO BUILDING STRUCTURE, THERE SHALL BE 2 FENCE POSTS INSTALLED, ONE 9-FOOT TALL FENCE POST DIRECTLY ADJACENT TO THE EXISTING BUILDING STRUCTURE WALL THAT WILL BE UNDER THE EXISTING ROOF OVERHANG/SOFFIT AND THE SECOND ONE WILL BE A 12-FOOT TALL FENCE POST ADJACENT TO THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT THAT WILL EXTEND APPROXIMATELY 3 FEET PLUS 1-FOOT-TALL EXTENSION ARM ON TOP OF FENCE ABOVE THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT. FOR THE FENCE POST PORTION ABOVE THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT, AN ADDITIONAL 3-FOOT WIDE BY 3-FOOT TALL FENCE PANEL WITH THE NO-CLIMB SECURITY FABRIC SHALL BE INSTALLED PERPENDICULAR TO THE FENCE SECTION AND IN LINE WITH THE EXISTING BUILDING STRUCTURE EXISTING ROOF OVERHANG/SOFFIT TO HELP PREVENT ACCESS TO THE EXISTING BUILDING STRUCTURE ROOF FROM THE FENCE SECTION.
9. THE FINISH FOR ALL FENCE COMPONENTS AND APPURTENANCES IS ZINC COATED STEEL IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS, AND POLYMER COATED IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS, FUSED AND ADHERED, OVER ZINC COATED STEEL, COLOR BLACK PER ASTM F934.

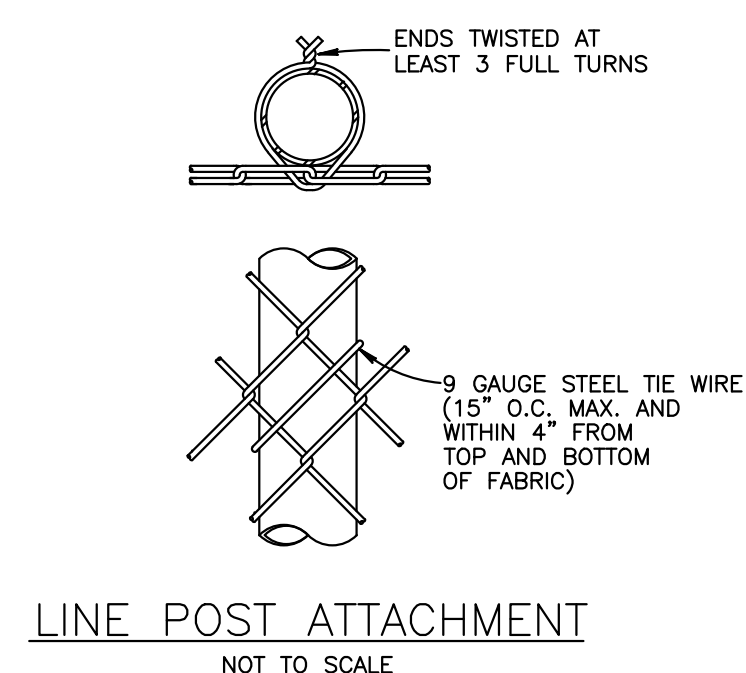
GATE AND STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)
GATE POSTS - VEHICLE ACCESS GATE (TUBULAR - ROUND)	8.625\" OD
GATE POSTS - MANWAY ACCESS GATE (TUBULAR - ROUND)	6.625\" OD
CORNER, END, TERMINAL, AND PULL POSTS (TUBULAR - ROUND)	6.625\" OD
LINE POSTS (TUBULAR - ROUND)	6.625\" OD
TOP, INTERMEDIATE, BOTTOM, AND BRACE RAILS (TUBULAR - ROUND)	1.625\" O.D.



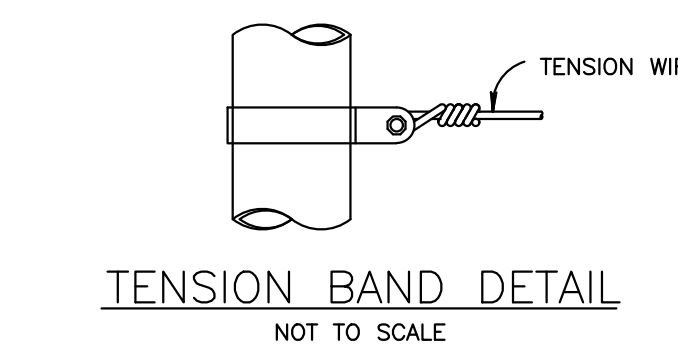
CHAIN LINK SECURITY FENCE DETAIL  
ADJACENT TO BUILDING STRUCTURE  
NOT TO SCALE



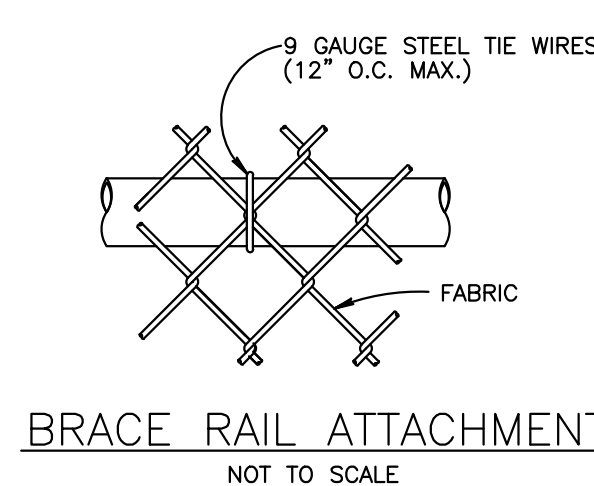
END OR GATE POST DETAIL  
NOT TO SCALE



LINE POST ATTACHMENT  
NOT TO SCALE



TENSION BAND DETAIL  
NOT TO SCALE



BRACE RAIL ATTACHMENT  
NOT TO SCALE