# REPLACEMENT OF SECURITY PERIMETER FENCE BALZANO MARINE TERMINAL

_					
	LIST OF UTILITIES				
WATER & SEWER:	<b>CAMDEN WATER L.L.C.</b> 1257 S. SECOND ST. CAMDEN, NJ 08104 856-635-1264				
WATER:	NEW JERSEY AMERICAN WATER CO. 213 CARRIAGE LANE DELRAN, NJ 08075				
GAS:	PSE&G GAS DISTRIBUTION DIVISION 300 CONNECTICUT DRIVE BURLINGTON, NJ 08086 856-778-6776 ATTN: GEORGE BAKER				
ELECTRIC:	PSE&G ELECTRIC DISTRIBUTION DIVISION 300 NEW ALBANY ROAD MOORESTOWN, NJ 08057 856-573-2077 ATTN: BOB SODER				
CABLE:	COMCAST 1250 HADDONFIELD ROAD CHERRY HILL, NJ 08034 856-272-1000				
TELEPHONE:	VERIZON - NEW JERSEY 10 TANSBORO ROAD BERLIN, NJ 08009				
AT&T:	TRANSCONTINENTAL CABLE ROUTE UNDERGROUND LOCATION SERVICE NEW JERSEY UTILITIES ASSOCIATION 800-252-1133				

**FUNDING SOURCE:** 

SJPC

	CITY OF CAMDENS STEVENS STEVEN
	NJ TRANSIT -Entertainment & Canter Canter & Senate St. 4 SQUAL
	Evans St. Ewans St. Beckett St. St. St. St. St. St. St. St. St. S
	Line St Pine St St Project Site Division St St S51
	Spruce St Joint St 🛱 Cherry St Walnut St
	Chestnut St o
	Sycamore-St Sycamore-St Spans Ave Liberty St
	Atlantic Ave  Lansdowne Av.
Delaware	603

	374

SCALE: 1" = 1000'

THE ELECTRONIC VERSION OF THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EFFECTIVE SEPTEMBER 1, 2019, AS REFERENCED IN BASELINE DOCUMENT CHANGE ANNOUNCEMENT BDC19S-01, UNLESS MODIFIED WITHIN THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT, SHALL GOVERN

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION\TRAFFIC CONTROL\BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2007 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

## CITY OF CAMDEN CAMDEN COUNTY, NEW JERSEY

REMINGTON & VERNICK 2059 SPRINGDALE ROAD CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882 WEB SITE ADDRESS: WWW.RVE.COM ~ENGINEERING EXCELLENCE~

NJ PROFESSIONAL ENGINEER LIC. No. 51062

SHEET INDEX

DESCRIPTION

TITLE

LEGEND

**ESTIMATE & GENERAL NOTES** 

**OVERALL SITE PLAN** 

CONSTRUCTION PLAN

**CONSTRUCTION DETAILS** 

SHEET#

5 - 7

8 - 12

PLANS WHICH DO NOT BEAF AN EMBOSSED SEAL ARE NOT VALID

ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NO NTENDED OR REPRESENTED TO BE SUITABLE FOR REUS BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON ERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFI WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTO & VERNICK ENGINEERS AND AFFILIATES; AND OWNE HALL INDEMNIFY AND HOLD HARMLESS REMINGTON DAMAGES, LOSSES AND EXPENSES ARISING OUT OF O RESULTING THEREFROI

JOB No.:

of 12

(3) FULL BUSINESS DAYS IN ADVANCE AND BEGIN **EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS** ON-SITE MUST HAVE THEIR OWN MARKOUT

**OCTOBER, 2021** 

## PROJECT LOCATION MAP

### STANDARD LEGEND

							USED					┦┨┇╲╜┺
Л 1	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	REMINGTO
	OVERHEAD WIRE	OHW			CROWS FOOT	Ý			EDGE OF PAVEMENT			& VERNICK <b>ENGINEER</b>
	SANITARY FORCE MAIN PIPE		FM		AERIAL TARGET		+		CURB			2059 SPRINGDALE R
	STORM SEWER PIPE ≤12"		D		CONCRETE MONUMENT	•	■ (SET)		PAVEMENT / CONC. / SIDEWALK	BITUMINOUS/ASPHALT	ASPHALT DRIVEWAY	CHERRY HILL, NJ 0 (856) 795-9595, FAX (856
	STORM SEWER PIPE > 12"		= = <u>(SIZE &amp; TYPE)</u> = =		PK / MAG NAIL DRILL HOLE	0	• (SET)			CONCRETE	CONCRETE	WEB SITE ADDRESS: WW\ Certification of Authorization: 24
	SAS SERVICE	<i>G</i>	G		SPIKE					BRICK/PAVERS	BRICK/PAVERS	~ENGINEERING EXCELLE
	SANITARY SEWER PIPE ≤12"	S			DRILL HOLE W/ WINGS	- <mark>- 0</mark> -				STONE	STONE	DATE:
	SANITARY SEWER PIPE > 12"	(SIZE & TYPE) = = = = = = = = = = = = = = = = = = =	= <u>(SIZE &amp; TYPE)</u> = =		STAKE	Δ	▲ (SET)				MILLING	WILLIAM M. BIS
,	ELECTRIC SERVICE	E	————E———		HUB	Δ	△ (SET)		LIMIT OF EXCAVATION			NJ PROFESSIONAL ENGINEER
,	BER OPTIC SERVICE	F0	————FO———		PIN W/ CAP IRON PIPE	<b>©</b>	• (SET)		GUIDE RAIL			
,	ELEPHONE SERVICE		———т		IRON PIN		• (SET)	ORK	BOLLARD	∅	Ø	
	COMMUNICATIONS SERVICE	c	c		CROSS CUT	×	ズ (SET)	5	MAILBOX	M	M	
ı	RRIGATION PIPE	IRR	IRR	<b> </b>	DISK				SIGNS	<del></del>	<del> +</del>	
	VATER SERVICE		w	S	STONE	0			FLAG POLE	$\sim$	•~	
	VATER SHUT-OFF	₩ <b>ુ</b>	WA		REBAR	⊗ √	ω	0	BENCH			
	VATER METER	W.M	₩₩		BASELINE		+		PILE			
	VATER VALVE	<b>%</b>	M NEW M RESET		CENTERLINE		<del></del>	<b>∞</b>	DETECTABLE WARNING SURFACE		<u>888</u>	
	VATER HYDRANT	HÇD -	▼ NEW ▼ RESET		EASEMENT			ш	TYPICAL STRIPING	0	•	
	VELL	<b>@</b>	<b>∞</b>		RIGHT-OF-WAY				ADA STRIPING	Ě	<u></u>	PLANS WHICH DO N AN EMBOSSED SEAL ARE
	ARD HYDRANT	o o			PROPERTY BOUNDARY			S	TRAFFIC CONTROL BOX	<i>TCB</i>	<b>▼</b> (454 T0 00415)	ALL DOCUMENTS PREPARED BY REM ENGINEERS AND AFFILIATES ARE
	METER PIT	⊙ e≨e			ADJACENT PROPERTY BOUNDARY				TRAFFIC LIGHT		(ARM TO SCALE)	SERVICE IN RESPECT OF THE PROJEI INTENDED OR REPRESENTED TO BE SU BY OWNER OR OTHERS ON EXTENSION OR ON ANY OTHER PROJECT. ANY
	GAS SHUT-OFF	E.M			RAILROAD TRACKS				DEPT. OF TRANSPORTATION MANHOLE	(ei)		WRITTEN VERIFICATION OR ADAPTATIO VERNICK ENGINEERS AND AFFILIATES PURPOSE INTENDED WILL BE AT OWNE
	GAS METER	GV	NEWBESET		STATE BOUNDARY				STATE HIGHWAY DEPARTMENT	₩ MANHOLE Œ BOX		WITHOUT LIABILITY OR LEGAL EXPOSU & VERNICK ENGINEERS AND AFFILIA SHALL INDEMNIFY AND HOLD HARMLI VERNICK ENGINEERS AND AFFILIATES
	GAS VALVE		M NEW M RESET		MUNICIPAL / COUNTY BOUNDARY				RAILROAD CROSSING BEACON	⊗		DAMAGES, LOSSES AND EXPENSES A
	GAS LINE MARKER	- <del></del>	_	٦	DODING LOCATION	<b>A</b> 5 "	<b>⊕</b> B−#		CALL BOX	©		
	SEWER VENT	\$X	•	<b>₹</b>	BORING LOCATION  MONITORING WELL LOCATION	<b>♦</b> B−#	<b>→</b> MW-#		OIL FILL  UNDERGROUND STORAGE TANK LID	<b>V</b>		
	NLET TYPE A	<b>₩</b>	RESET/ RECONSTRUCT		TEST PIT LOCATION	<b>⊕</b> MW-# <b>□</b> TP-#	<b>₽</b> TP-#		RISER PIPE	<i>8</i>		
	NLET TYPE B		SET RECONSTRUCT  RESET RECONSTRUCT		FRESHWATER WETLAND FLAG	<b>▼</b>	<b>•</b> "		RAISED PAVEMENT MARKER	<u> </u>	_	
	NLET TYPE E		SET RECONSTRUCT		FRESHWATER WETLAND LINE		<u></u> <u></u>		NAISED I AVEIVIENT WANKER	_	<u>-</u>	<b>_  </b>
	AREA DRAIN		SET NEW SET	0	FRESHWATER WETLAND BUFFER				BBQ GRILL	•		
	/ANHOLES	S SANITARY D DRAINAGE T TELEPHONE	•		EDGE OF WATER		· · · — · · · — · · · —		WATER FOUNTAIN	<i>₩</i> =		
		W WATER © CATV © UNDERDRAIN © ELECTRIC © GAS W UNKNOWN	NEW RESET RECONSTRUCT	Z	STREAM CENTERLINE				KIOSK	——————————————————————————————————————		
	RRIGATION CONTROL VALVE	×	M NEW M RESET	ш		[*************************************			AIR CONDITIONER	<b>අ</b> ධ		
	RRIGATION BOX				GRASS/SOD	* * * * * * * * * * * * * * * * * * *		Ž	PARKING METER	PM		
	RRIGATION CONTROL BOX	<i>IR</i> <i>C</i>		<u>U</u>	DECIDUOUS TREE	A CONTRACTOR OF THE PROPERTY O	SHADE ORNAMEI	ITAL ——	FIRE CONTROL VALVE	FV ⊠		
	SPRINKLER HEAD	©	•		SHRUBS / BUSH		where		BARRICADE	<del>-u-u-</del>	<del>-u-u-</del>	
	JNKNOWN VALVE	$\bowtie$		4	EVERGREENS		A MARIE					_
	COMMUNICATIONS PEDESTAL				STUMP	·			PHOTO LOCATION		#	
	COMMUNICATIONS LINE MARKER	<del>Ç</del>		DS	WOODS / TREE LINE			AL	BENCHMARK LOCATION	$ \begin{array}{c} \hline BM\\ X \end{array} $	•	ATION
	ELEPHONE PEDESTAL				WIRE FENCE	//////	—//—//—	💆	TYPICAL SECTION ARROW		<u></u> <b>→ A</b>	□ ORPOR.
	ELEPHONE LINE MARKER	<del>-</del>			SPLIT RAIL FENCE			GENER	MATCH LINE			M CO
	ELEC. BOX	Ø		_	WOOD / VINYL FENCE				TYPICAL NORTH ARROW	NAD-1983		
	ELEC. METER	5M		<del>     </del>	CHAIN-LINK FENCE	XXX	xx	<b>                                    </b>			O ON STANDARD CONSTRUCTION SHEETS TO STATE PLANE COORDINATE SYSTEM.	H H
	ELEC. TRANSFORMER PAD	ET)			TOP OF BANK / DITCH	ТВ			E.B., W.B., <sub>EASTB</sub>			OUTH
	ELEC. VAULT	EV			BOTTOM OF BANK / DITCH				APR. APRON N.B., S.B. NORTH BL BASELINE G GUTTE	BOUND, SOUTHBOUND PC POIN	STATE HIGHWAY IT OF CURVATURE S.H.D. DEPARTMENT IT OF INFLECTION SHLD. SHOULDER	l l l l l l l l l l l l l l l l l l l
	ELEC. LINE MARKER	<u>£</u>		NC NC	CONTOUR (MAJOR)		5	<u>0</u>	BM BENCH MARK GR GRATE BIT. BITUMINOUS HW HEADW	PT POIN /ALL PK PARI	STY. STORY KER KAYLON MASONRY NAIL T.B.A. TO BE ABANDONED	
	ITILITY POLE	STANDARD W/ LIGHT W/ SOLAR	ملَّم مَلْمٌ مِن		CONTOUR (MINOR)		3		CL CENTERLINE INV. INVERT		YVINYL CHLORIDE PIPE TO TOP OF CURB	
	GUY ANCHOR	≺		A	FLOW LINE / SWALE	>>	>>		C.I.P. CAST IRON PIPE IP IRON P CONC. CONCRETE J.B. JUNCTI	ON BOX PVI POIN	IT OF VERTICAL CURVATURE TEL TELEPHONE IT OF VERTICAL INTERSECTION TEMP. TEMPORARY	
	ELEC. OUTLET	€	<b>G</b> =	GR/	TIME OF CONCENTRATION	<b></b>	>		CULV. CULVERT L.O.M. LIMIT O	F MILLING RADI	IT OF VERTICAL TANGENCY TYP. TYPICAL  IUS U.D. UNDERDRAIN  IFORCED CONCRETE PIPE U.P. UTILITY POLE	
	IGHTS	♥ POLE ♥ AREA	₩ ₩	0	SPOT GRADE	<sub>X</sub> 3.48	<sub>X</sub> 3.48 TC5.45		D.C. DEPRESSED CURB L.O.P. LIMIT OF DH DRILL HOLE MB MAILBO	OX RMC RIGII	D METALLIC CONDUIT VAR. VARIES	DRAWN BY:         DESIGN BY:         CHECKED           CFC         DHS         WME
						TC5.45	GL4.95		= UMAXIMI	11.U.VV. KIGH	VIII VLRIFT IIN FIELU	DATE:

		ESTIMATE (	OF QUANTIT	IES	
	ITEM NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
					SEE PLAN NOTES FOR
	001	REMOVAL OF VEGETATION	1	LS	LOCATION
$\triangle$ (	002	8' ÖRNAMENTAL ALUMINUM FENCE	175	LF	
		8' HIGH CHAIN LINK FENCE WITH			
	003	BARBED WIRE TOP	1450	LF	
		10' HIGH CHAIN LINK FENCE WITH			
		BARBED WIRE TOP AND PRIVACY			
	004	SLATS	1000	LF	
	005	8' HIGH BI-FOLD GATE	1	EA	G4
	006	8' HIGH RAIL GATE	1	EA	G6
		10' HIGH RAIL GATE WITH BARBED			
	007	WIRE TOP AND PRIVACY SLATS	1	EA	G1
	800	8' HIGH DOUBLE SWING GATE	2	EA	G5, G7
	009	8' HIGH SINGLE SWING GATE	1	EA	G8
		10' HIGH DOUBLE SWING GATE			
		WITH BARBED WIRE TOP AND			
	010	PRIVACY SLATS	2	EA	G2, G3

#### GENERAL NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. ALL PAVED AND CONCRETE AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
- 5. ALL GRASSED OR WOODED AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDED.
- 6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
- 8. APPROXIMATE DEPTH OF ALL WATER MAINS ARE  $\pm$  4 FEET.
- 9. APPROXIMATE DEPTH OF ALL GAS MAINS ARE  $\pm$  3 FEET.
- 10. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY.
- 11. FENCING TO COMPLY WITH UNITED FACILITIES CRITERIA (UFC) 4-022-03, SECURITY FENCES AND GATES.
- 12. GATE IDENTIFICATION PLACARDS AND ALL FENCE SIGNS SHALL BE REMOVED PRIOR TO CONSTRUCTION AND PRESERVED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- 13. CONTRACTOR SHALL REPLACE ALL GATE IDENTIFICATION PLACARDS AND FENCE SIGNS UPON COMPLETION OF CONSTRUCTION.
- 14. CONTRACTOR SHALL RESTORE ALL GATE ALARMS AND OTHER FENCE SECURITY DEVICES TO FULL WORKING ORDER UPON COMPLETION OF CONSTRUCTION.

#### CONSTRUCTION STAGING REQUIREMENTS:

#### <u>OPTION A:</u>

- 1. SECURITY FENCE REPLACEMENT SHALL BE LIMITED TO ONE (1), 400' (FEET) LENGTH OF FENCE MAXIMUM AT A TIME.
- 2. WHEN FENCE SECTIONS ARE REMOVED, A PORT SECURITY GUARD SHALL BE POSTED AT THAT LOCATION FOR THE DURATION OF THE WORK AND/OR UNTIL FENCE SECTION HAS BEEN REPLACED AND THE SECURITY PERIMETER FENCE IS DEEMED SECURE.
- 3. THE INTENT OF THIS PROCEDURE IS TO ENSURE THAT NO SECTION OF THE FENCE IS REMOVED BEYOND THAT WHICH CANNOT BE FULLY REPLACED DURING ONE WORK DAY.
- 4. AT THE END OF EACH WORK DAY, THE PORT PERIMETER SECURITY FENCING SHALL BE FULLY INTACT AND SECURE IN ACCORDANCE WITH USCG REQUIREMENTS.

#### <u>OPTION B:</u>

- 1. SHOULD THE CONTRACTOR ELECT TO USE TEMPORARY FENCING/BARRIERS TO ALLOW FOR MORE THAN 400' (FEET) OF FENCE REMOVAL AT A TIME, THE FOLLOWING WILL BE REQUIRED: TEMPORARY FENCING LAYOUT, MATERIALS AND LENGTH OF FENCE REMOVAL SUBJECT TO ENGINEER APPROVAL.
- 2. TEMPORARY FENCING SHALL MEET USCG STANDARDS AND REQUIREMENTS.
- 3. POSTS FOR TEMPORARY FENCING SHALL BE ADEQUATELY ANCHORED INTO THE GROUND. FENCE POST STANDS ON GRADE ARE NOT ACCEPTABLE.
- 4. AN APPROVED TEMPORARY FENCING SYSTEM SHALL BE INSTALLED SUCH THAT IT REMAINS IN PLACE AT ALL TIMES AND THE PORT REMAINS SECURE. ANY OPENINGS IN THE SECURITY PERIMETER, HOWEVER TEMPORARY, SHALL BE APPROVED BY THE ENGINEER AND SHALL HAVE A PORT SECURITY GUARD POSTED FOR THE DURATION OF THE OPENING.

REMINGTON

**ENGINEERS** 2059 SPRINGDALE ROAD CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882

& VERNICK

WEB SITE ADDRESS: WWW.RVE.COM Certification of Authorization: 24 GA 28003300 ~ENGINEERING EXCELLENCE~

WILLIAM M. BISIRRI NJ PROFESSIONAL ENGINEER LIC. No. 51062

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK

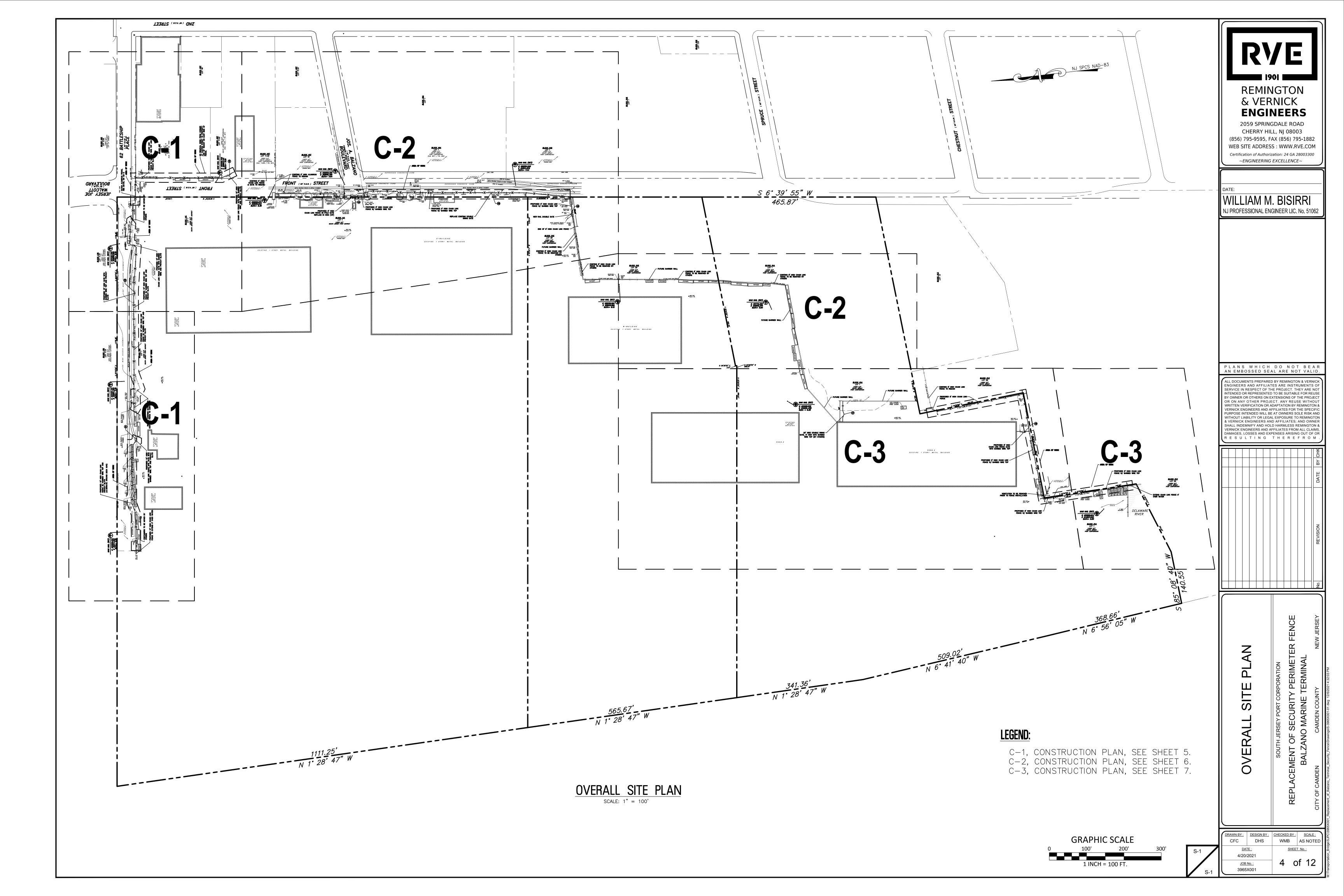
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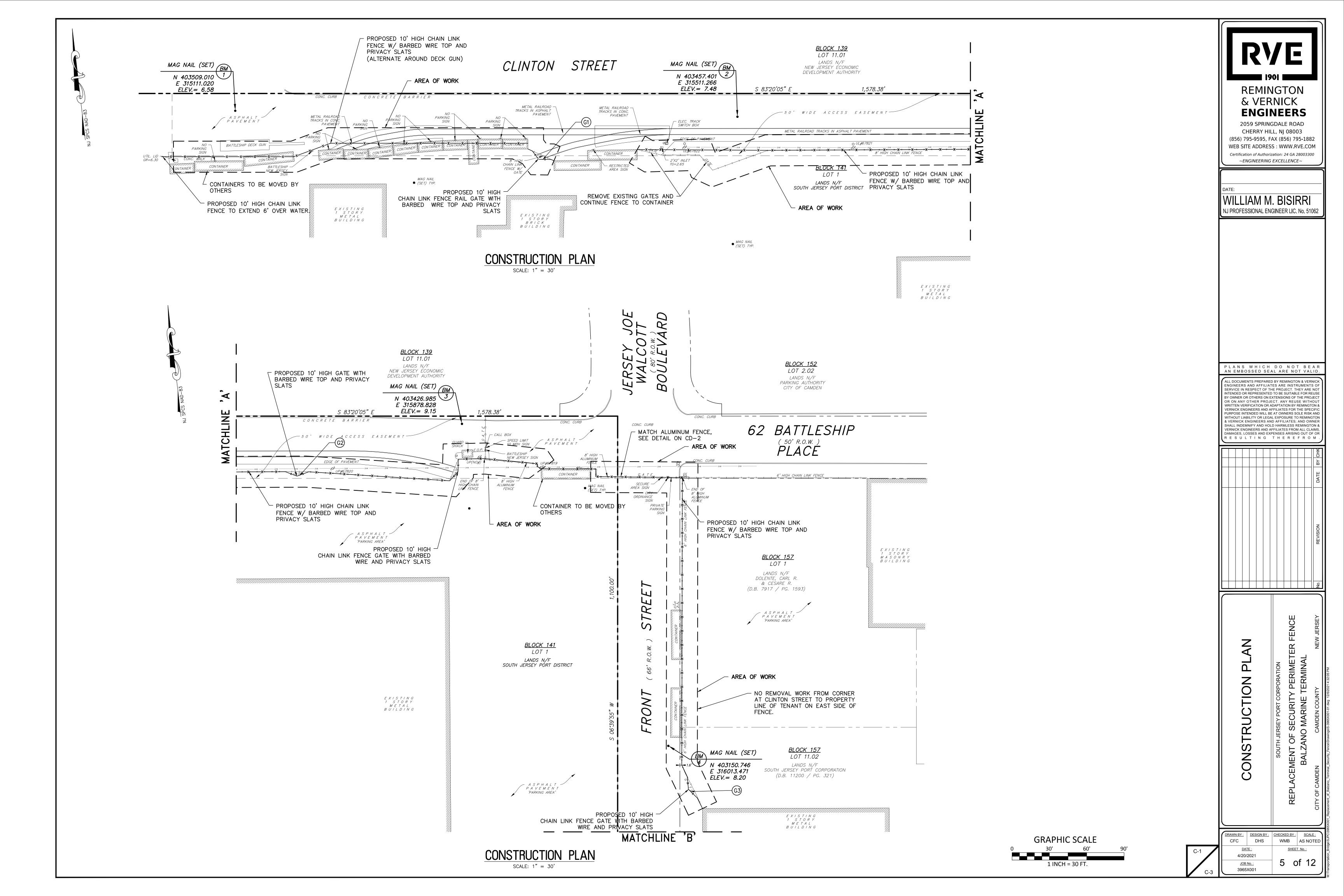
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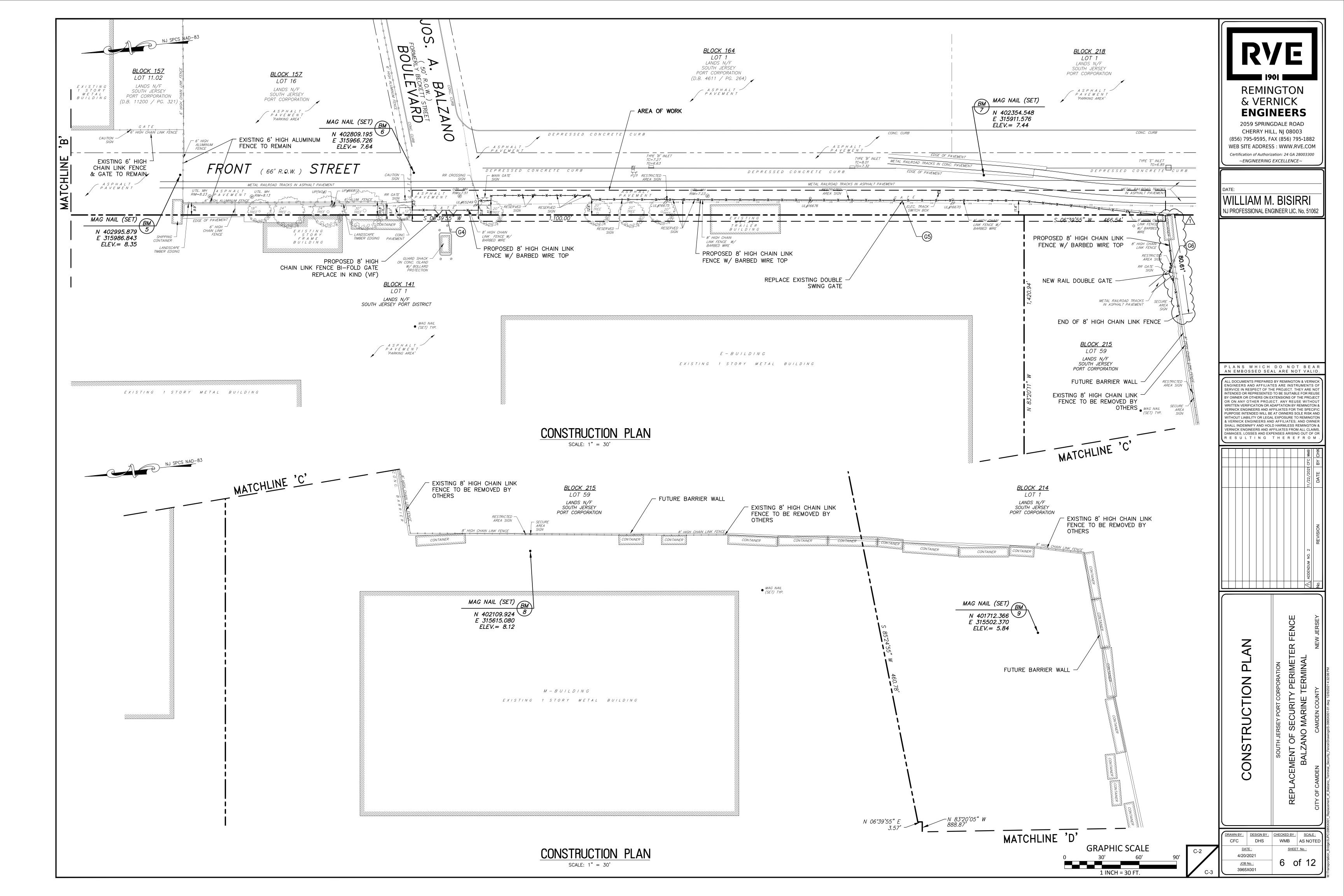
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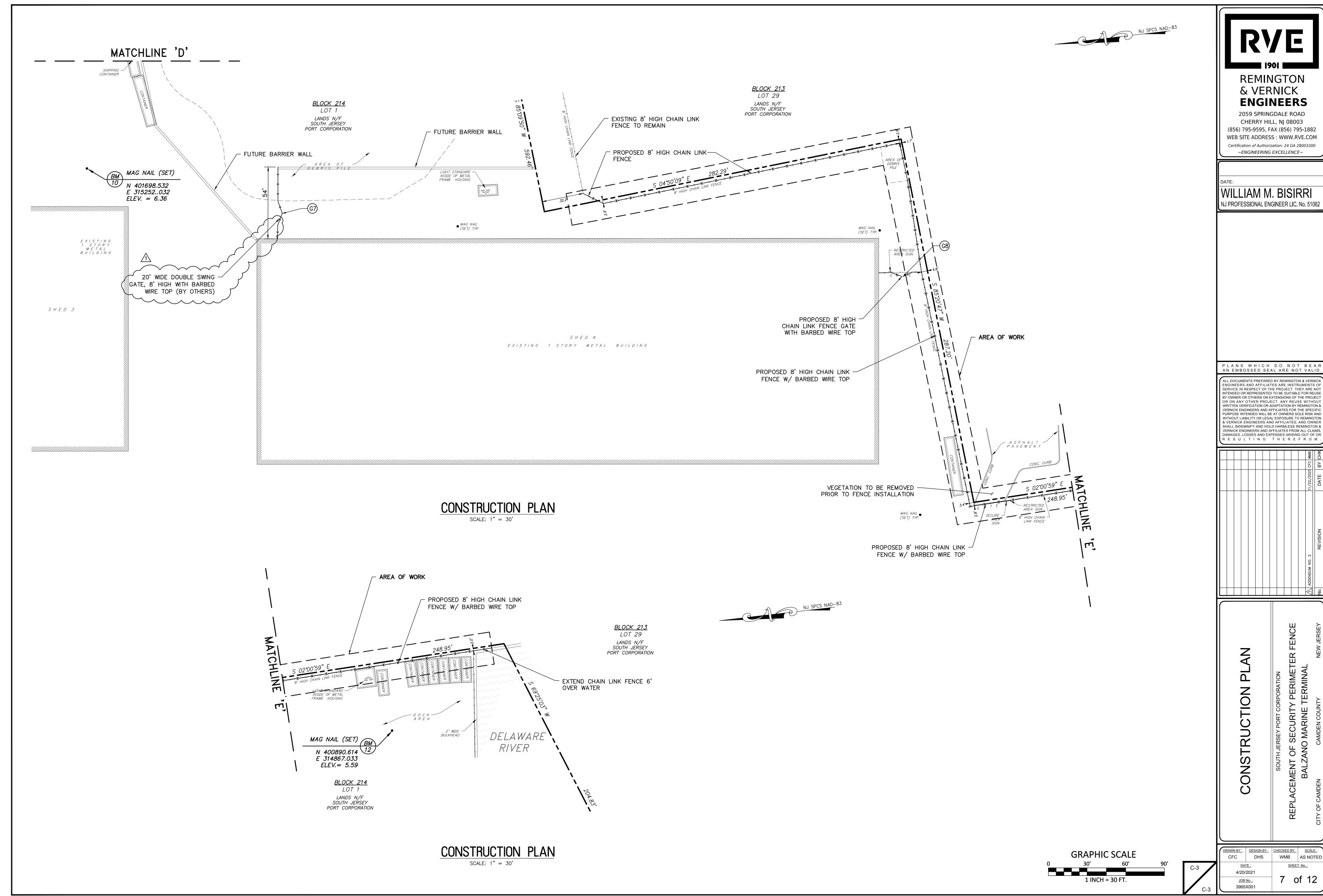
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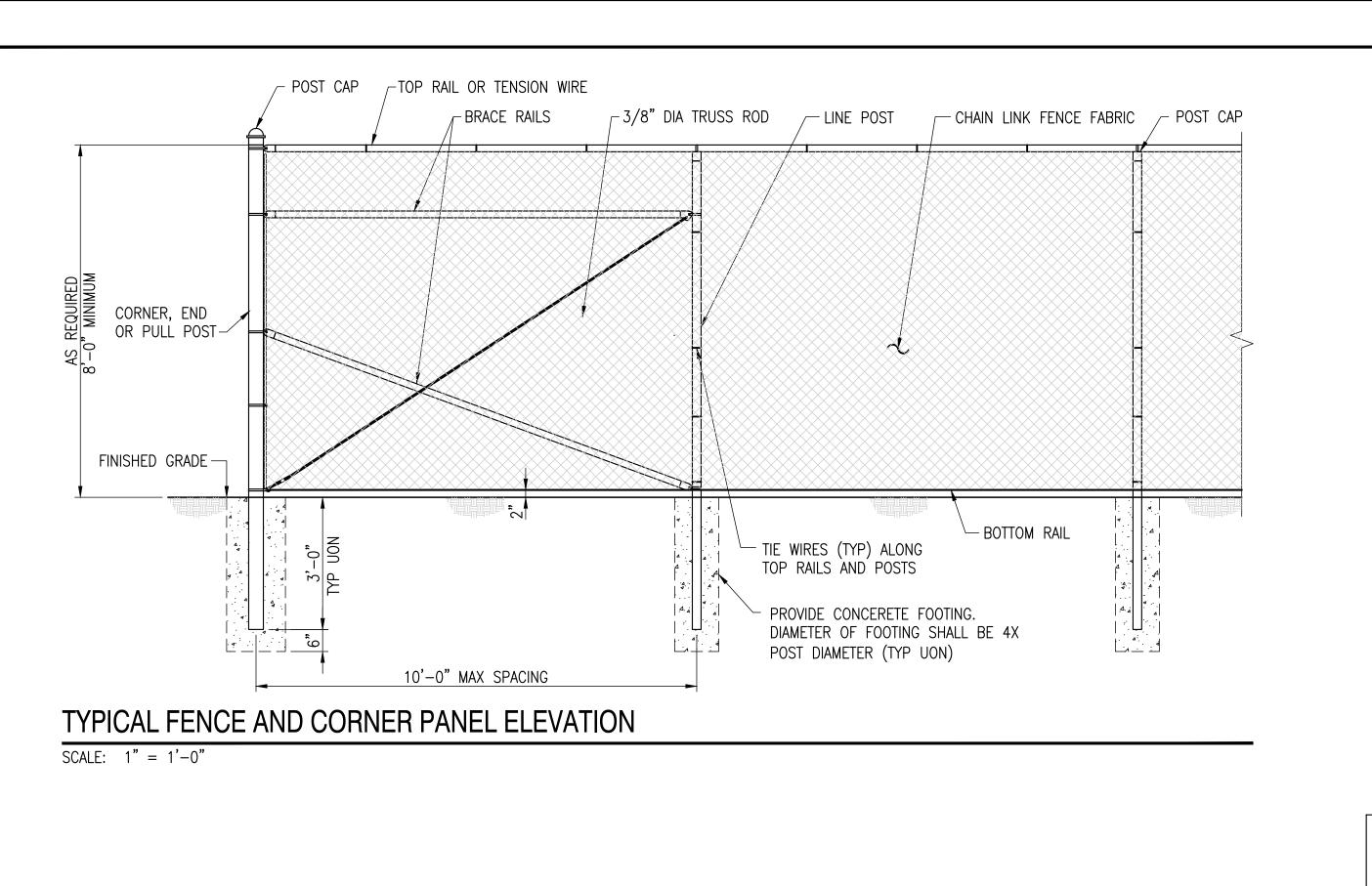
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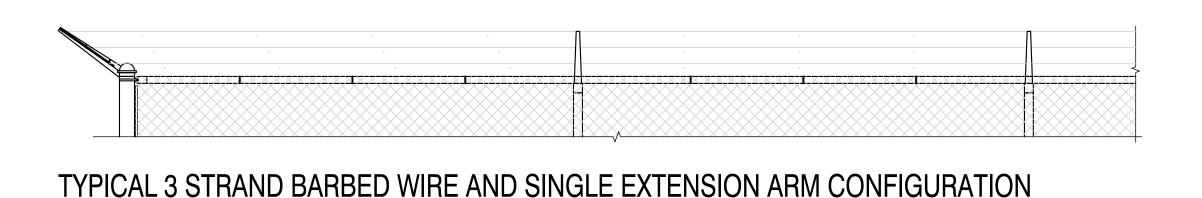










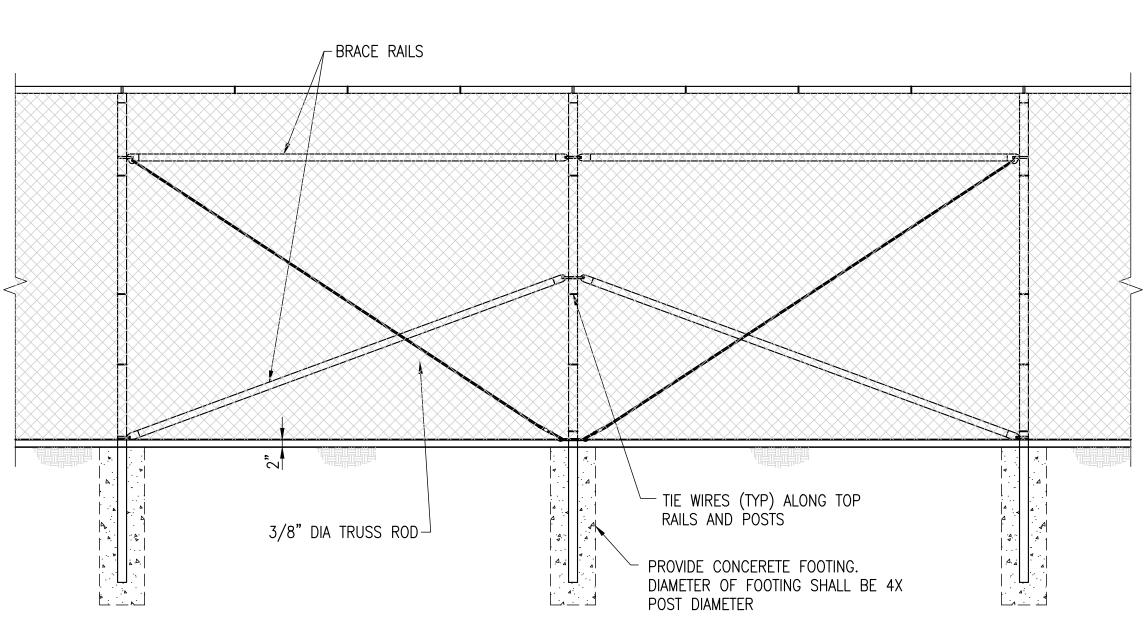


SCALE: 1" = 1'-0"

<u>ELEVATION</u>

SCALE:  $1 \frac{1}{2} = 1'-0''$ 

CORNER OR END POSTS

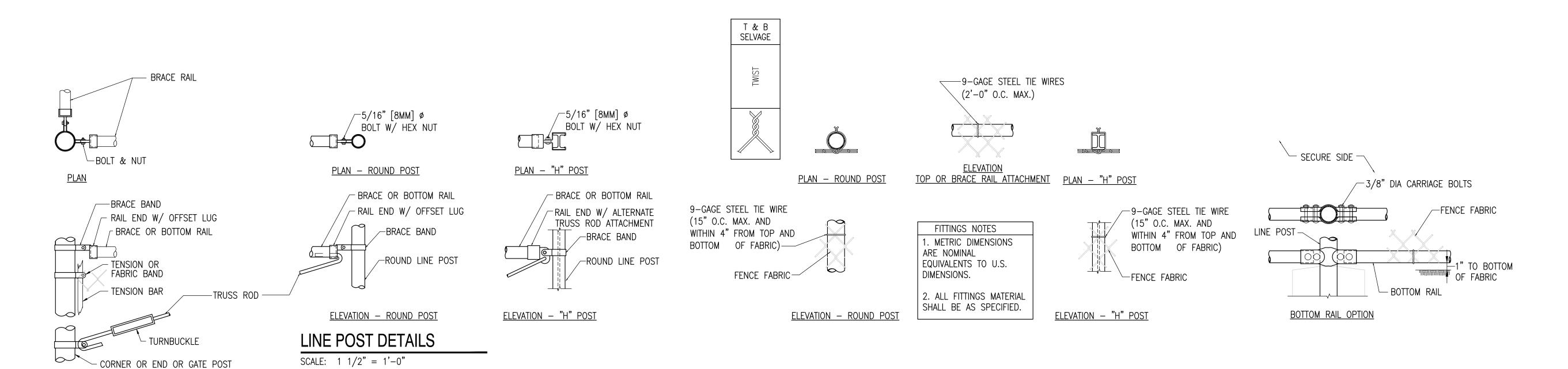


#### TYPICAL FENCE AND BRACED PANEL ELEVATION

SCALE: 1" = 1'-0"

NOTE (1): A BOTTOM RAIL CAN BE ADDED FOR SECURITY, IT SHALL BE INSTALLED APPROX 3" ABOVE GRADE (A MINIMUM OF 2" AND A MAXIMUM OF 4"). HARDWARE SHALL BE WELDED OR SHOT NAILED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO NEW BOTTOM RAIL TO ELIMINATE POSSIBILITY OF PEELING UP FABRIC.

NOTE (2): SOME LOCATIONS MAY REQUIRE 8' OF FABRIC.



CHAIN-LINK FENCE AND DETAILS

GRAPHIC SCALES

1" = 1'-0"

0 6" 1' 2'
CFC

CD-1

4/20

1 1/2" = 1'-0"

CD-5

REMINGTON & VERNICK ENGINEERS

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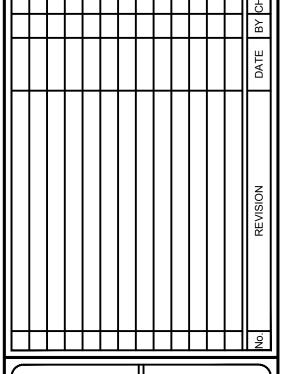
~ENGINEERING EXCELLENCE~

|<del>|----</del>

WILLIAM M. BISIRRI NJ PROFESSIONAL ENGINEER LIC. No. 51062

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LACEMENT OF SECURITY PERIME

BALZANO MARINE TERMINA

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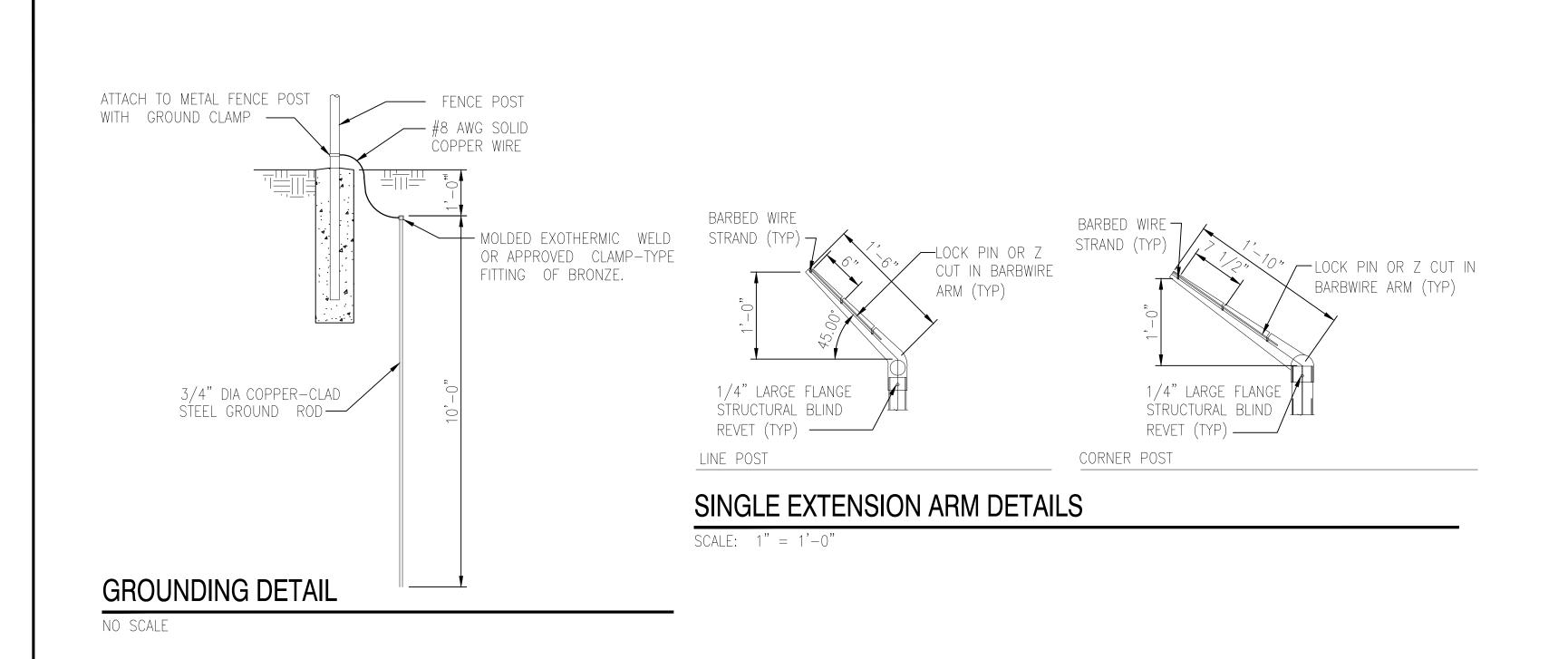
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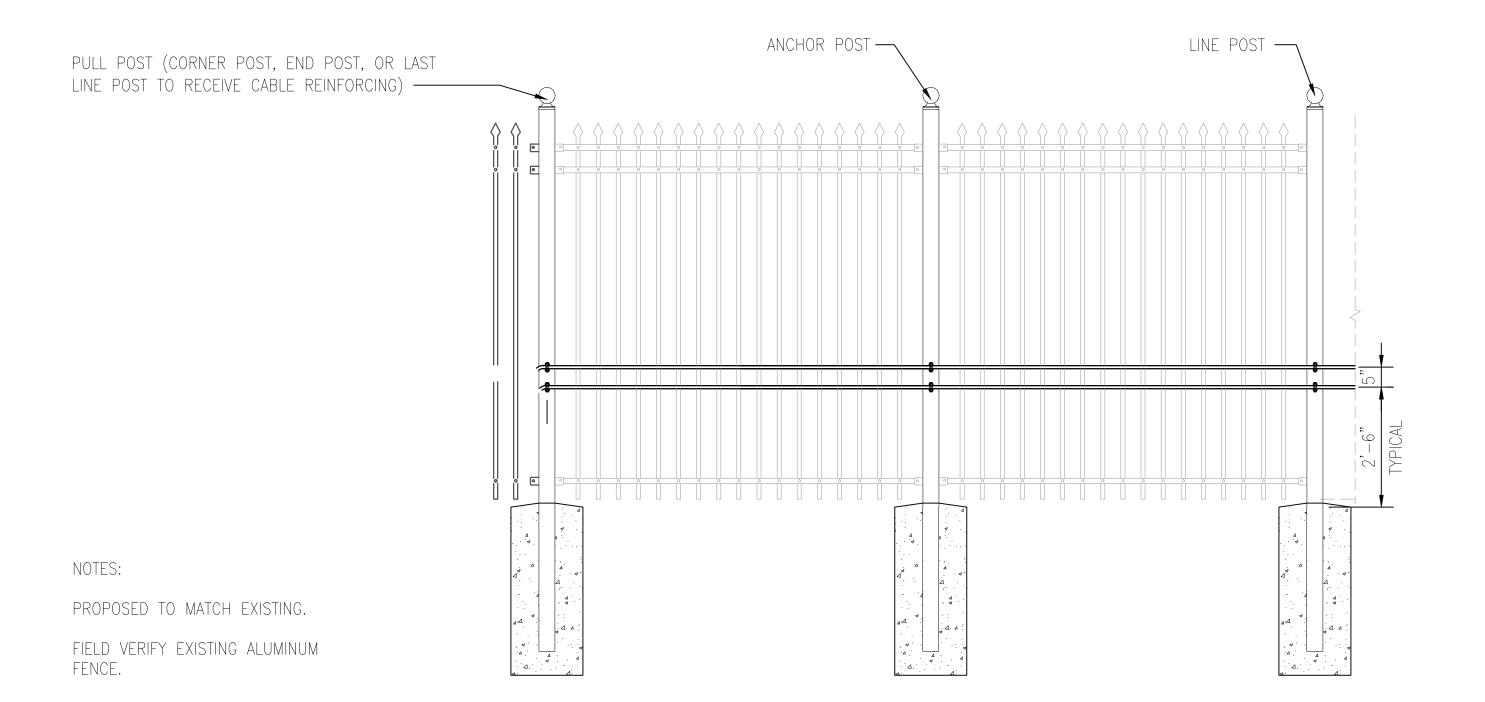
DATE: SHEET No.:

4/20/2021

JOB No.: 8 Of 12

3965X001





### TYPICAL ELEVATION OF ALUMINUM FENCE

SCALE: 1/2" = 1'-0"



RVE

REMINGTON & VERNICK ENGINEERS

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ADDENDUM NO. 5 12-7-21 CFCWME
REVISION DATE BY CHK

N DETAILS

SOUTH JERSEY PORT CORPORATION

EMENT OF SECURITY PERIMETER

BALZANO MARINE TERMINAL

ALUMINUM FENCE DETAILS

GRAF	HIC	SCA	ALES
0	6"	1'	
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1" = 1'-0"

CD-2 CD-5

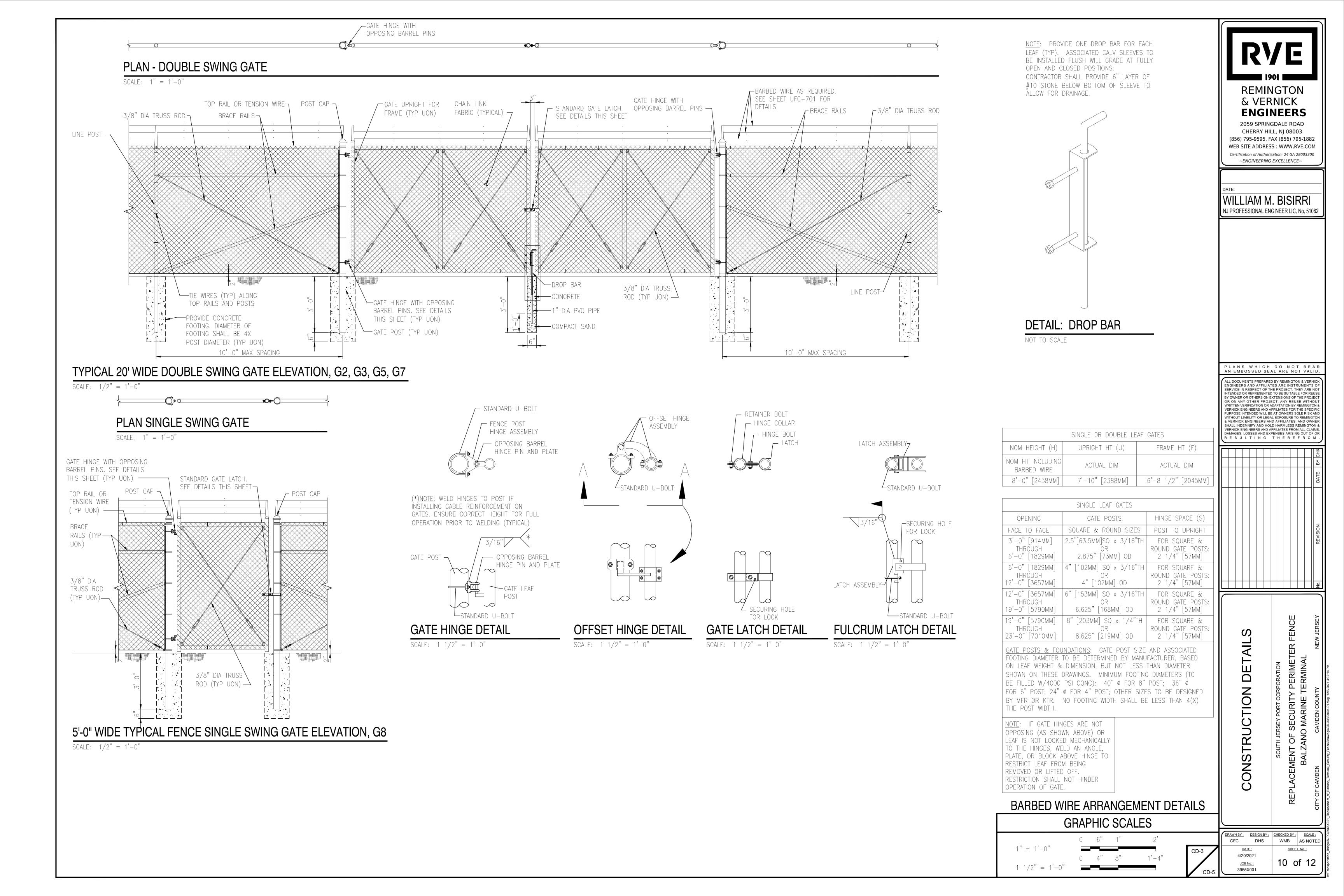
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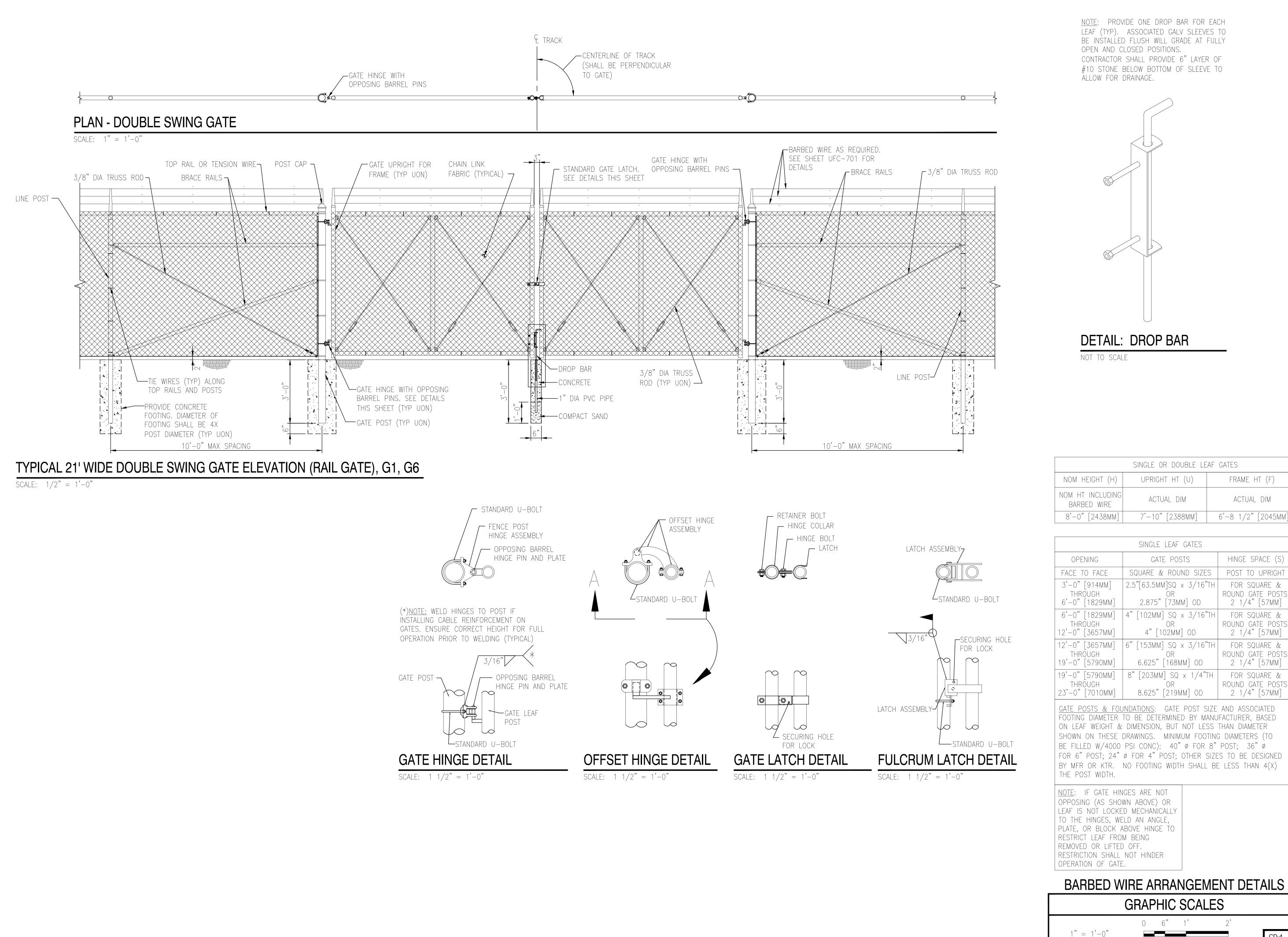
DATE: SHEET No.:
4/20/2021

JOB No.:
3965X001

DESIGN BY: CHECKED BY: SCALE:
AS NOTED

9 of 12





REMINGTON

**ENGINEERS** 

2059 SPRINGDALE ROAD

CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882

WEB SITE ADDRESS: WWW.RVE.COM

~ENGINEERING EXCELLENCE~

WILLIAM M. BISIRRI

NJ PROFESSIONAL ENGINEER LIC. No. 51062

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ENGINEERS AND AFFILIATES ARE INSTRUMENTS O SERVICE IN RESPECT OF THE PROJECT. THEY ARE NO

NTENDED OR REPRESENTED TO BE SUITABLE FOR REUS

WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC

PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK ANI WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTOI

VERNICK ENGINEERS AND AFFILIATES; AND OWNE SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON

DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OF R E S U L T I N G T H E R E F R O M

BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT

& VERNICK

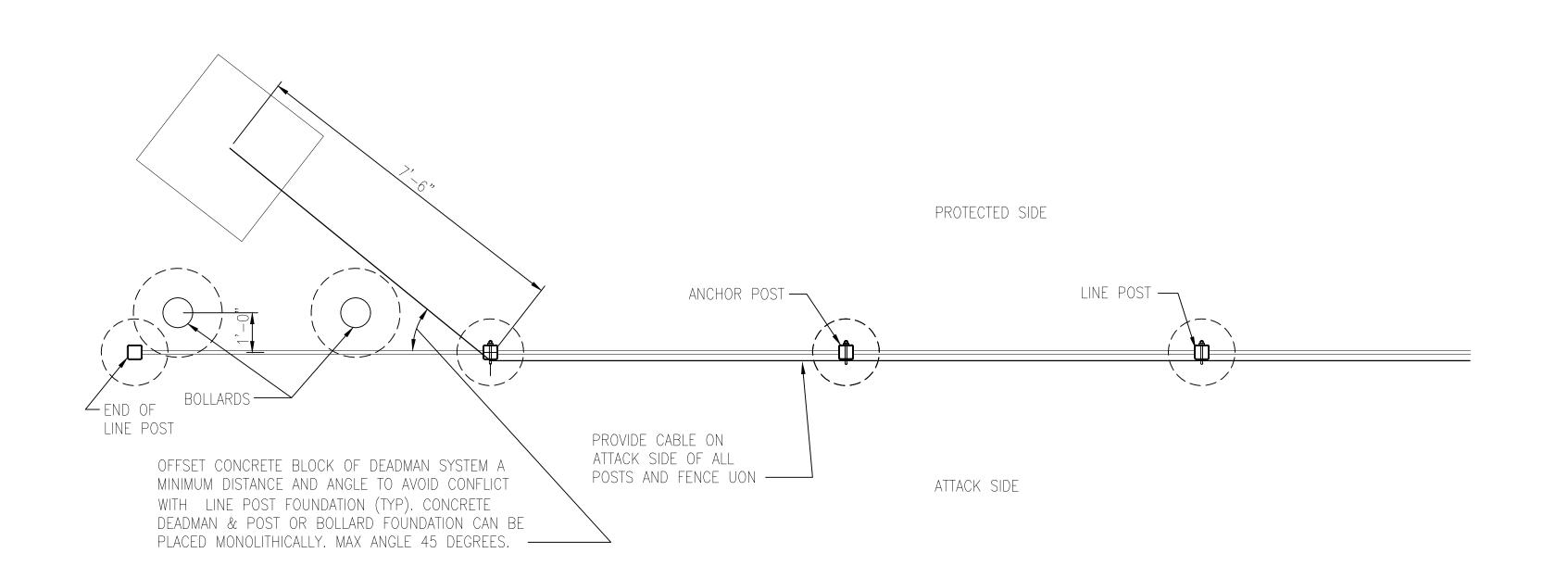
	SINGLE LEAF GATES	
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQUARE & ROUND SIZES	POST TO UPRIGHT
3'-0" [914MM] THROUGH 6'-0" [1829MM]	2.5"[63.5MM]SQ x 3/16"TH OR 2.875" [73MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
6'-0" [1829MM] THROUGH 12'-0" [3657MM]	4" [102MM] SQ x 3/16"TH OR 4" [102MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
12'-0" [3657MM] THROUGH 19'-0" [5790MM]	6" [153MM] SQ x 3/16"TH OR 6.625" [168MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]
19'-0" [5790MM] THROUGH	8" [203MM] SQ x 1/4"TH OR	FOR SQUARE & ROUND GATE POSTS:

		1 110	001	<u>''</u>
	0	6"	1'	
1" = 1'-0"				
	0	4"	8"	
$1 \ 1/2" = 1'-0$	"			

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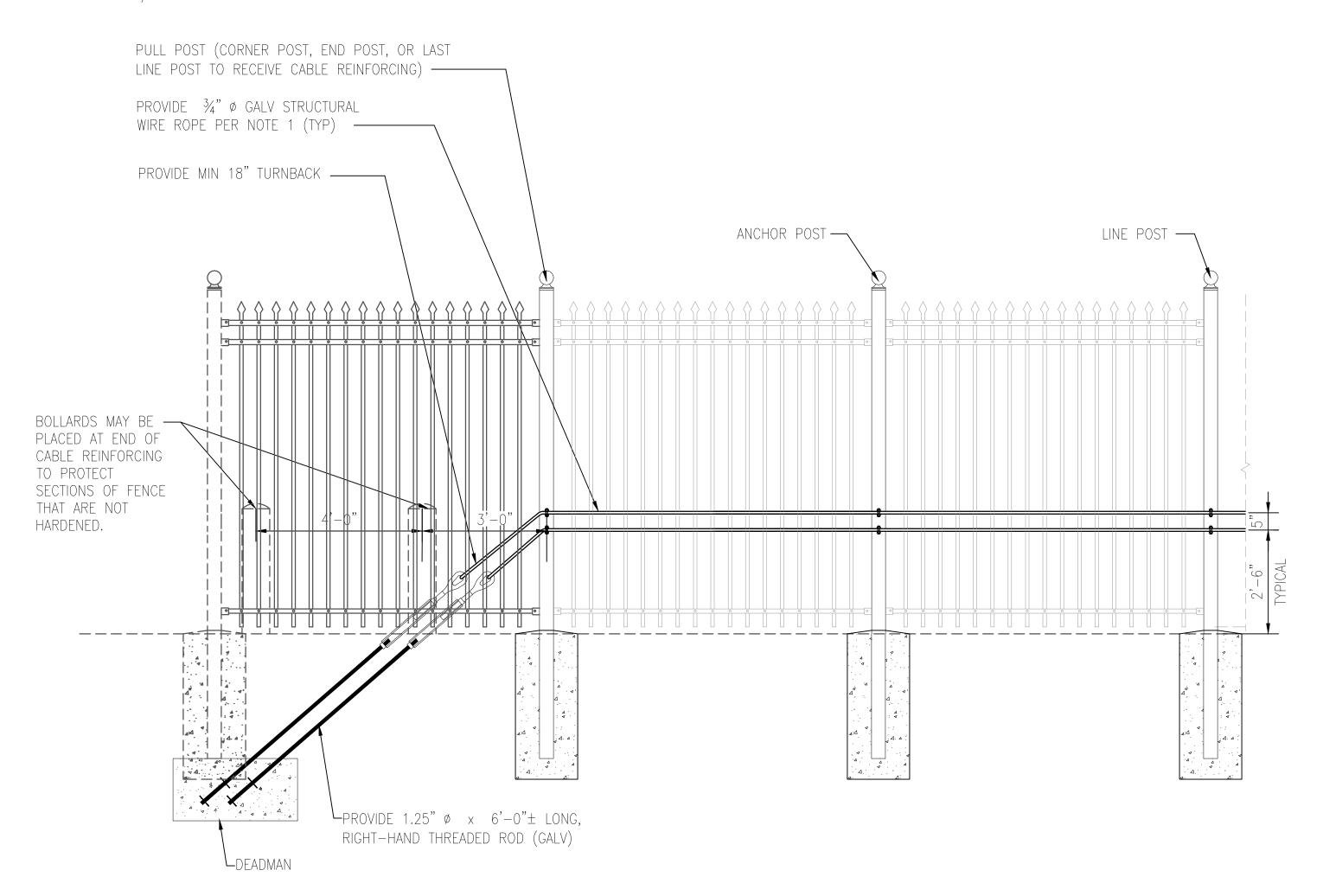
EMENT OF SECURITY PERIME BALZANO MARINE TERMINAI

SOUTH JERSEY PORT COF



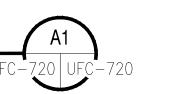
#### TYPICAL PLAN OF END POST DEADMAN AND LINE POST LAYOUT

SCALE: 1/2" = 1'-0"



### TYPICAL ELEVATION OF END POST DEADMAN AND LINE POST LAYOUT

SCALE: 1/2" = 1'-0"



#### LAYOUT OF REINFORCING

DESIGNER OF RECORD TO LOCATE DEADMEN ON SITE PLANS, SATISFYING SPACING CRITERIA, OVERLAPS, AND FENCE CORNERS / TURNING POINTS. AT GATES IT IS DESIRABLE TO HAVE TRAFFIC ON EITHER SIDE OF A MEDIAN TO OPERATE AND PROTECT INDEPENDENTLY (NOT UTILIZING THE SAME DEADMAN SYSTEMS). THEREFORE DEADMEN SHOULD BE PLACED IN THE MEDIAN TO ANCHOR THE GATE REINFORCING FOR EACH SIDE OF THE ROAD. IF THERE IS NO PHYSICAL MEDIAN (MERELY PAINTED LINES), LIMITED ROOM, OR UTILITY CONFLICTS THAT DO NOT ALLOW FOR DEADMEN PLACEMENT BETWEEN THE GATES, ENSURE THAT THE CABLING FOR BOTH GATES ARE CONNECTED—— EITHER DIRECTLY OR VIA AN INTERMEDIATE CABLE WHICH CREATES AN INTEGRAL CABLE SYSTEM ACROSS THE ENTIRE GATE AREA.

#### MODIFICATIONS TO TYPICAL DESIGN

IF LARGER DESIGN THREATS OR CUSTOMER REQUESTS INDICATE A NEED FOR GREATER SECURITY, MORE 3/4" Ø CABLES CAN BE UTILIZED OR THE CABLES CAN BE UPGRADED TO 1" Ø. BOTH SCENARIOS REQUIRE THE DEADMAN (WHICH WILL NEED TO BE LARGER) TO BE DESIGNED BY A PROFESSIONAL ENGINEER TO SATISFY THE CRITERIA OUTLINED IN REINF NOTE 19 ON THIS SHEET. FOR BIDDING PURPOSES, ESTABLISH A UNIT COST FOR ADDITIONAL EXCAVATION AND NEW CONCRETE PER CUBIC FOOT.

IF 1" Ø CABLE IS USED, SPECIFICATIONS SHALL MATCH REINF NOTE 1 ON THIS SHEET, EXCEPT THE CABLE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 70,000 POUNDS (35 TONS). OTHER COMPONENTS, SUCH AS EYEBOLTS, U-BOLTS, ROPE CLIPS, THIMBLES, AND OTHER ASSOCIATED HARDWARE SHALL BE SIZED ACCORDINGLY.

GRAPHIC SCALES

1/2" = 1'-0"

#### REINFORCING NOTES

- REINFORCING CABLES SHALL BE U.S. DOMESTIC MINIMUM 3/4" Ø 6x19 CLASS WIRE ROPE, REGULAR LAY, EXTRA IMPROVED PLOW STEEL (EIP), INDEPENDENT WIRE ROPE CORE (IWRC), CLASS A CONFORMING TO ASTM A1023 AND GALVANIZED IN ACCORDANCE WITH ASTM A475, & HAVE A MINIMUM BREAKING STRENGTH OF 40,000 POUNDS (20 TONS). CABLES SHALL HAVE A BLACK VINYL COATING, BUT SHALL NOT BE IMPREGNATED.
  - CABLES SHALL BE CONTINUOUS FROM DEADMAN TO DEADMAN. NO SPLICES IN CABLE SHALL BE ALLOWED. CABLE BARRIER SHALL BE INSTALLED BETWEEN FENCE POST AND FENCE FABRIC AS PER PLANS. U-BOLTS SHALL BE INSTALLED PERPENDICULAR TO THE LAY OR THE STRANDS OF THE WIRE ROPE AND SHALL BI TIGHTENED AFTER SAG IN CABLE BARRIER HAS BEEN REMOVED. CONCRETE DEADMAN SPACING SHALL BE AT MAXIMUM 200' INTERVALS & TURNING POINTS (EXTERNAL CORNERS).
- WIRE ROPE ENDS SHALL TERMINATE AROUND TURNBUCKLES, GATE POSTS OR EXTRA HEAVY-DUTY WIRE ROPE THIMBLES (AT GATES). THESE TERMINATIONS REQUIRE 18" MINIMUM OF ROPE FOR TURN BACK AND A MINIMUM OF (4)— CLIPS EACH (EQUAL SPACING).
- 4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
- . DEADMEN TO BE INSTALLED ON THE SECURED SIDE (INTERIOR) OF THE FENCE; WHILE CABLES SHOULD BE INSTALLED ON THE EXTERIOR SIDE OF POST.
- 6. PROVIDE NECESSARY SLACK IN CABLES (GATES ONLY) TO ALLOW FOR FULL SWING OF ALL GATE LEAVES.
- 7. OFFSET DEADMAN SYSTEMS FROM FENCELINE (PLAN VIEW) TO AVOID CONFLICT WITH EXISTING FENCE POSTS.
- 8. ALLOW EPOXY ANCHOR BOLTS (MIN 2 DAYS) & CONCRETE DEADMEN (MIN 7 DAYS) TO CURE, PRIOR TO APPLYING LOADS (INSTALLING TURNBUCKLES & STRAIGHTENING CABLES).
- 9. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1. ALL WELD MATERIAL SHALL BE E70XX ELECTRODES.
- 10. STRUCTURAL STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NINTH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION FOR ALLOWABLE STRESS DESIGN.
- 11. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS OF 36000 PSI.
- 12. ALL STRUCTURAL STEEL MEMBERS AND HARDWARE USED IN CABLE ANCHORING SYSTEM SHALL BE HOT-DIPPED GALVANIZED. ANY AREAS WHERE COATING IS DAMAGED OR REMOVED SHALL BE COVERED WITH A ZINC RICH COMPOUND.
- 13. TURNBUCKLES SHALL BE 11/4"x18", TYPE I, GALVANIZED IN ACCORDANCE WITH ASTM F1145.
- 14. WIRE ROPE CLAMPS SHALL BE TYPE I, GALVANIZED, IN ACCORDANCE WITH FS FF-C-450.
- 15. ALL THREADED RODS, U-BOLTS, AND BOLTS SHALL CONFORM TO ASTM A307 AND SHALL BE INSTALLED WITH F844 WASHERS AND A563 NUTS. ENTIRE BOLT ASSEMBLY SHALL BE GALVANIZED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 16. ZINC RICH COMPOUND FOR REPAIRS SHALL BE 95% METALLIC ZINC, BY WEIGHT IN DRIED FILM; CONFORMING TO FED SPEC DOD-P-21035A & MEETING MILITARY SPEC MIL-P-26915A. INSTALL AT LEAST TWO COATS, 4 MILS MIN TOTAL THICKNESS.
- 17. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. THE MINIMUM CONCRETE COVER SHALL BE 3", UNLESS OTHERWISE NOTED.
- 18. ALL ITEMS NOT NOTED AS "EXIST" OR "EXISTING" SHALL BE PROVIDED AND INSTALLED UNDER THE REQUIREMENTS OF THIS CONTRACT.
- 19. DESIGN CRITERIA: UFC 4-022-03 "SECURITY ENGINEERING: FENCES, GATES AND GUARD FACILITIES"

UFC 4-022-02 "SELECTION AND APPLICATIONS OF VEHICLE BARRIERS."

20. IF CABLE REINFORCING GATES, PROVIDE EYEBOLTS TO SECURE CABLE TO GATE PICKETS @ 24" OC & U-BOLTS TO SECURE TO GATE UPRIGHTS. MODIFY AS NEEDED FOR OPERATION.

#### TYPICAL CABLE REINFORCED ORNAMENTAL FENCE END POST

3" = 1'-0" $1 \ 1/2$ " = 1'-0" 1" = 1'-0"

1'-4"



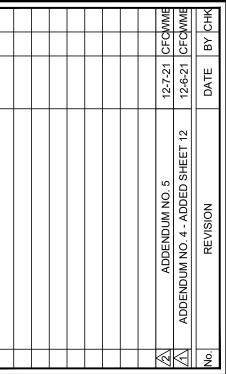
**REMINGTON** & VERNICK **ENGINEERS** 

2059 SPRINGDALE ROAD CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882 WEB SITE ADDRESS: WWW.RVE.COM Certification of Authorization: 24 GA 28003300 ~ENGINEERING EXCELLENCE~

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**GRAPHIC SCALES**