



STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



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**ADDENDUM NO. 1 TO PROJECT NO. Q1536**

**CONSTRUCTION WORK  
REPLACE PERIMETER FENCE  
ARMY AVIATION SUPPORT FACILITY NO. 1  
MACARTHUR AIRPORT  
201 SCHAEFER DRIVE  
RONKONKOMA, NY**

December 27, 2011

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**SPECIFICATIONS**

1. SECTION 323113 CHAIN LINK FENCE: Discard the Section bound in the Project Manual and substitute the attached Section (pages 323113 – 1 through 323113 – 6) noted “Addendum #1”.

**DRAWINGS**

2. Revised Drawing:
  - a. Drawing No. C-101, noted “REVISED DRAWING 12/23/2011” accompanies this Addendum and supersedes the same numbered originally issued drawing.
3. Addendum Drawing:
  - a. Drawing No. C-103, noted “ADDENDUM DRAWING 12/23/2011” accompanies this Addendum and forms part of the Contract Documents.

**END OF ADDENDUM**

James Dirolf, P.E.  
Director of Design

**SECTION 323113**  
**CHAIN LINK FENCE**

**PART 1 GENERAL**

**1.01 REFERENCES**

- A. Comply with ASTM A 53 for requirements of Schedule 40 piping.

**1.02 DEFINITIONS**

- A. Height of Fence: Distance measured from the top of concrete footing to the top of fabric.

**1.03 SUBMITTALS**

- A. Shop Drawings: Complete detailed drawings for each height and style of fence and gate required. Include separate schedule for each listing all materials required and technical data such as size, weight, and finish, to ensure conformance to specifications.
- B. Product Data: Manufacturer's catalog cuts, specifications, and installation instructions for each item specified.
- C. Samples:
  - 1. Fence Fabric: Minimum one square foot.
  - 2. Fence and Gate Posts: Two each, one foot long, if requested.
  - 3. Miscellaneous Materials and Accessories: One each, if requested.

**1.04 QUALITY ASSURANCE**

- A. Comply with standards of the Chain Link Fence Manufacturer's Institute.
- B. Provide steel fence and related gates as a complete compatible system including necessary erection accessories, fittings, and fastenings.
- C. Posts and rails shall be continuous without splices.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

- A. Class B Steel Tubing (Option):
  - 1. SS-40 Fence Pipe by Allied Tube & Conduit Corp., 16100 S. Lathrop Ave., Harvey, IL, 60426, (800) 882-5543.
  - 2. Tuf-40 Fence Framework by American Tube and Pipe Co., Inc., 2525 N. 27th Ave., Phoenix, AZ 85009, (800) 669-8823.

**2.02 STEEL FRAMEWORK (FOR FENCES UP TO 6'-0" HIGH)**

- A. End Posts, Corner Posts and Pull Posts:
1. Pipe: 2.375 inches OD, 3.65 pounds per linear foot (Schedule 40).
  2. Square Tubing: 2 inches OD, 3.60 pounds per linear foot.
  3. Class B Steel Tubing: 2.375 inches OD, 3.11 pounds per linear foot.
  4. Roll Formed C-Section: ASTM A 570 Grade 45, 3.5 inches by 3.5 inch by 0.128 inch thick, with minimum bending strength of 486 pounds under a 6 foot cantilever load.
- B. Line Posts:
1. Pipe: 1.90 inches OD, 2.72 pounds per linear foot (Schedule 40).
  2. Class B Steel Tubing: 1.90 inches OD, 2.28 pounds per linear foot.
  3. H-Section: 1.875 inches x 1.625 inches x 0.113 inch, 2.70 pounds per linear foot.
  4. Roll Formed C-Section: ASTM A 570 Grade 45, 1.875 inches by 1.625 inches by 0.121 inch thick with minimum bending strength of 247 pounds under a 6 foot cantilever load.

**2.03 STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH)**

- A. End Posts, Corner Posts and Pull Posts:
1. Pipe: 2.875 inches OD, 5.79 pounds per linear foot (Schedule 40).
  2. Square Tubing: 2.50 inches OD, 5.70 pounds per linear foot.
  3. Class B Steel Tubing: 2.875 inches OD, 4.64 pounds per linear foot.
  4. Roll Formed C-Section: ASTM A 570 Grade 45, 3.5 inches by 3.5 inches by 0.128 inch thick, with minimum bending strength of 486 pounds under a 6 foot cantilever load.
- B. Line Posts:
1. Pipe: 2.375 inches OD, 3.65 pounds per linear foot (Schedule 40).
  2. Class B Steel Tubing: 2.375 inches OD, 3.11 pounds per linear foot.
  3. H-section: 2.25 inches by 1.95 inches by 0.143 inches, 4.10 pounds per linear foot.
  4. Roll Formed C-Section: ASTM A 570 Grade 45, 2.25 inches by 1.70 inches by 0.121 inch thick, with minimum bending strength of 316 pounds under a 6 foot cantilever load.

**2.04 STEEL FABRIC**

- A. One-piece widths for fence heights up to 12'-0".
- B. Chain link, 2 inch mesh, No. 9 gauge.
- C. Selvages: Top edge twisted and barbed; bottom edge knuckled.

**2.05 SLIDING GATE HARDWARE**

- A. Steel Cantilever type with enclosed tracks and integral latch assembly:
1. Ty-Metal Corp., 1626 Route 9, Clifton Park, NY 12065, (800) 328-4283.
  2. Anchor Fence, 6500 Eastern Ave., Baltimore, MD, (410) 633-6500.

3. Lock: Manual operation. Padlock type latch.

## 2.06 MISCELLANEOUS MATERIALS AND ACCESSORIES

- A. Rails and Post Braces:
  1. Pipe: 1.660 inches OD, 2.27 pounds per linear foot (Schedule 40).
  2. Class B Steel Tubing: 1.660 inches OD, 1.84 pounds per linear foot.
  3. Roll formed C-Section: 1.625 inches by 1.25 inches by 0.0747 inch thick with minimum bending strength of 192 pounds on a 10 foot span.
- B. Fittings and Post Tops: Steel, wrought iron, or malleable iron.
  1. Fasteners: Tamper-resistant cadmium plated steel screws.
- C. Stretcher Bars: One piece equal to full height of fabric, minimum cross-section 3/16 inch by 3/4 inch.
- D. Metal Bands (for securing stretcher bars): Steel, wrought iron, or malleable iron.
- E. Wire Ties: Conform to American Steel Wire gauges.
  1. For tying fabric to line posts, rails and braces: 9 gauge (.1483 inch) steel wire.
  2. For tying tension wire to fabric: 11 gauge (.1205 inch) steel hog rings.
- F. Truss Rods: 3/8 inch diameter.
- G. Concrete: Portland Cement concrete having a minimum compressive strength of 2500 psi at 28 days.
- H. Spiral Paper Tubes:
  1. Sonotube by Sonoco Products Co., North Second St., Hartsville, SC 29550, (800) 377-2692.
  2. Slek/tubes by Jefferson Smurfit Corp., P.O. Box 66820, St. Louis, Mo 63166, (314) 746-1100.
- I. Cold Galvanizing Compound: Single component compound giving 93 percent pure zinc in the dried film, and meeting the requirements of DOD-P-21035A (NAVY).
- J. Tension Wire: 7 gauge coiled spring steel wire.

## 2.07 BARBED WIRE

- A. Two strand 12-1/2 gauge steel wire, with 14 gauge 4-point steel barbs spaced 5 inches oc.
- B. Extension Arms: Pressed steel, wrought iron, or malleable iron, complete with provision for anchorage to posts (including light posts) and attaching 3 rows of barbed wire to each arm.
  1. Type: Single 45 degree arm; one for each post.
  2. Type: Single vertical arm; one for each post.

**2.08 FINISHES**

- A. Steel Framework:
  1. Pipe: Galvanized in accordance with ASTM A 53, 1.8 ounces zinc per square foot.
  2. Square Tubing: Galvanized in accordance with ASTM A 123, 2.0 ounces zinc per square foot.
  3. Class B Steel Tubing: Exterior; 1.0 ounces zinc per square foot plus chromate conversion coating and clear polyurethane. Interior; zinc rich organic coating.
  4. H-Section: Galvanized in accordance with ASTM A 123, 2.0 ounces zinc per square foot.
  5. Roll Formed C-Section: Galvanized in accordance with ASTM A 123, 2.0 ounces zinc per square foot.
  
- B. Fabric; one of the following:
  1. Galvanized Finish: ASTM A 392 class II zinc coated after weaving, with 2.0 ounces per square foot.
  2. Aluminized Finish: ASTM A 491 aluminum coated with 0.40 ounces per square foot.
  
- C. Fence and Gate Hardware, Miscellaneous Materials, Accessories:
  1. Wire Ties: Galvanized Finish, ASTM A 90 1.6 ounces zinc per square foot, or aluminized finish, ASTM A 809 0.40 ounces per square foot.
  2. Hardware and Miscellaneous Items: Galvanized Finish, ASTM A 153 (Table 1).
  3. Extension Arms: Hot-dip galvanized after fabrication, ASTM 123, 2.0 ounces zinc per square foot.
  
- D. Barbed Wire and Tension Wire; one of the following:
  1. Galvanized Finish: ASTM A 121 class 3, 0.80 ounces per square foot.
  2. Aluminized Finish: ASTM A 585 class 2, 0.30 ounces per square foot.

**PART 3 EXECUTION****3.01 PREPARATION**

- A. Clear and grub along fence line as required to eliminate growth interfering with alignment. Remove debris from State property.
  
- B. Do not begin installation of fence in areas to be cut until finished grading has been completed.

**3.02 INSTALLATION**

- A. Space posts equidistant in the fence line with a maximum of 10 feet on center. For fences 16 feet and higher space posts a maximum of 8 feet on center.
  
- B. Setting Posts in Earth: Drill holes for post footings. If existing grade at the time of installation is below finished grade, provide spiral paper tubes to contain

concrete to finish grade elevation. Set posts in center of hole and fill hole with concrete. Plumb and align posts. Vibrate or tamp concrete for consolidation. Finish concrete in a dome shape above finish grade elevation to shed water. Do not attach fabric to posts until concrete has cured a minimum of 7 days.

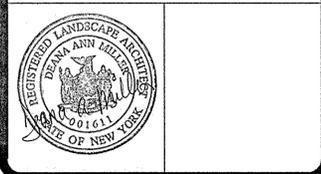
- C. Locate corner posts at corners and at changes in direction. Use pull posts at all abrupt changes in grade and at intervals no greater than 500 feet. On runs over 500 feet, space pull posts evenly between corner or end posts. On long curves, space pull posts so that the strain of the fence will not bend the line posts.
- D. Install top rail continuously through post tops or extension arms, bending to radius for curved runs. Install expansion couplings as recommended by fencing manufacturers.
- E. Install intermediate rails in one piece between posts and flush with post on fabric side using special offset fittings where necessary.
- F. Brace corner posts, pull posts, end posts, and gate posts to adjacent line posts with horizontal rails.
- G. Diagonally brace corner posts, pull posts, end posts, and gate posts to adjacent line posts with truss rods and turnbuckles.
- H. Attach fabric to security side of fence. Maintain a 2 inch clearance above finished grade except when indicated otherwise. Thread stretcher bars through fabric using one bar for each gate and end post and 2 for each corner and pull post. Pull fabric tight so that the maximum deflection of fabric is 2 inches when a 30 pound pull is exerted perpendicular to the center of a panel. Maintain tension by securing stretcher bars to posts with metal bands spaced 15 inches oc. Fasten fabric to steel framework with wire ties spaced 12 inches oc for line posts and 24 inches oc for rails and braces. Bend back wire ends to prevent injury. Tighten stretcher bar bands, wire ties, and other fasteners securely.
- I. Position bolts for securing metal bands and hardware so nuts are located opposite the fabric side of fence. Tighten nuts and cut off excess threads so no more than 1/8 inch is exposed. Peen ends to prevent loosening or removal of nuts.
  - 1. Secure post tops and extension arms with tamper-resistant screws.
- J. Install gates plumb and level and adjust for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary.
- K. Tension Wire: Support bottom edge of fabric with tension wire. Weave tension wire through fabric or fasten with hog rings spaced 24 inches oc. Tie tension wire to posts with 9 gauge wire ties.
- L. Wire brush and repair welded and abraded areas of galvanized surfaces with one coat of cold galvanizing compound.

- M. Restore disturbed ground areas to original condition. Topsoil and seed to match adjacent areas.

**END OF SECTION**

CONSULTANT

**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT: **CONSTRUCTION**  
 TITLE: **REPLACE PERIMETER FENCE**  
 LOCATION: **ARMY AVIATION SUPPORT FACILITY #1 MACARTHUR AIRPORT, 201 SCHAEFER DR. RONKONKOMA, NY**  
 CLIENT: **DIVISION OF MILITARY & NAVAL AFFAIRS**

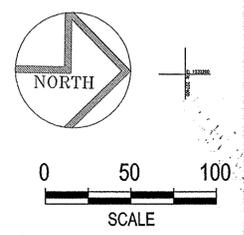
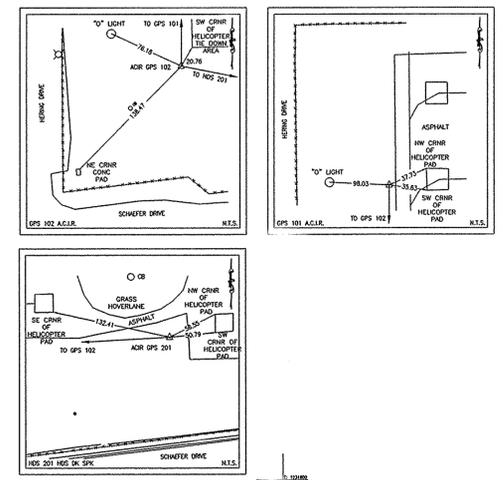
REVISED DRAWING  
 12/23/2011

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PROJECT NUMBER:	Q1536 - C		
DESIGNED BY:	DM		
DRAWN BY:	DM		
FIELD CHECK:			
APPROVED:			
SHEET TITLE:	EXISTING CONDITIONS PLAN		
DRAWING NUMBER:	C-101		
SHEET	2	OF	3

GENERAL NOTES:  
 1) SITE DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88, DERIVED FROM GPS OBSERVATIONS.  
 2) HORIZONTAL DATUM IS NEW YORK STATE PLANE COORDINATES, NEW YORK LONG ISLAND ZONE, NAD 83/CORS 96, DERIVED FROM GPS OBSERVATIONS.  
 3) UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES.  
 4) FIELD SURVEY UPDATE PERFORMED THE WEEK OF MARCH 1, 2011.

MAP REFERENCES:  
 1. MAP ENTITLED "SURVEY OF LEASE PARCELS A,B,C,D SITUATE AT LONG ISLAND MACARTHUR AIRPORT," DATED OCTOBER 10, 1966 LAST REVISED ON JULY 12, 1971 BY KARL W. WEISENBACHER, LAND SURVEYOR.  
 2. MAP ENTITLED "PROP. ACQUISITION-PARCEL "A"," DATED NOVEMBER 22, 1982 BY THE TOWN OF ISLIP ENGINEERING DIVISION.  
 TABLE OF BENCHMARKS:  
 BENCHMARK 1: "U-CUT" SET IN NW CORNER CONC BASE, OF CCTV POLE ELEV.=82.06

LEASE REFERENCE:  
 CERTIFICATE OF TITLE, LEASE FROM THE TOWN OF ISLIP TO THE PEOPLE OF THE STATE OF NEW YORK, DATED APRIL 19, 1977 PURSUANT TO RESOLUTION NO. 109 ADOPTED BY THE BOARD OF THE TOWN OF ISLIP ON JANUARY 18, 1977.



EXISTING  
 CONDITIONS  
 PLAN

CONSULTANT

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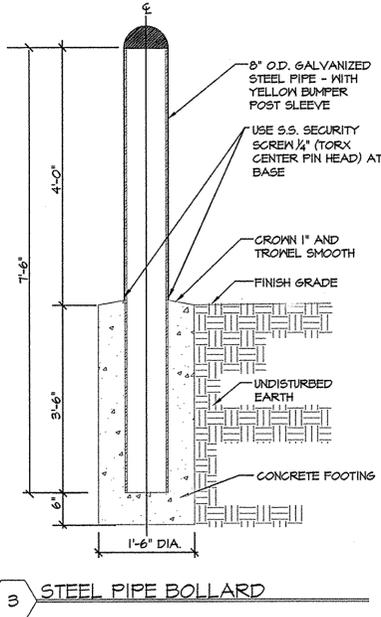
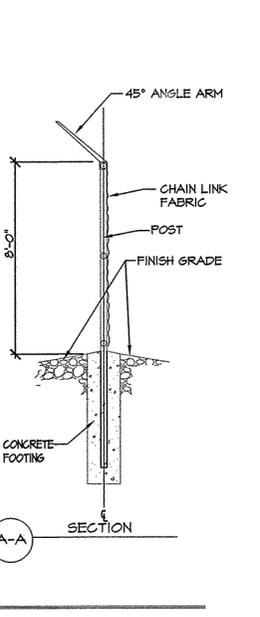
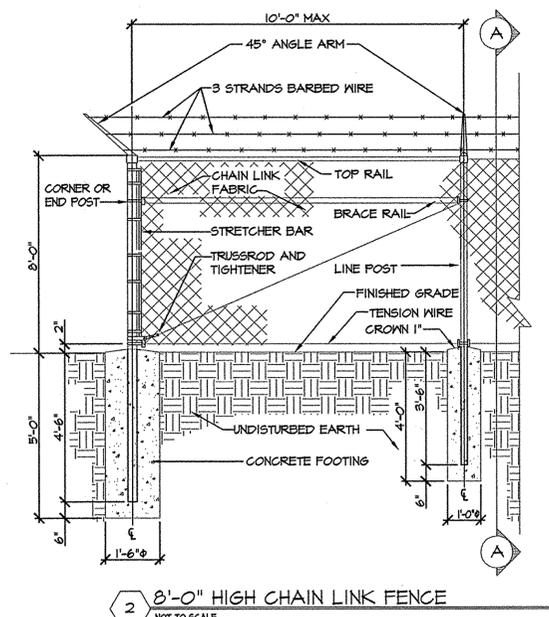
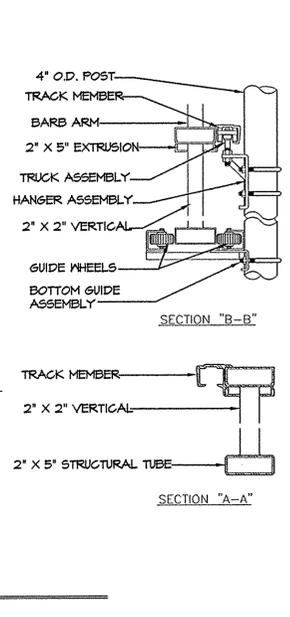
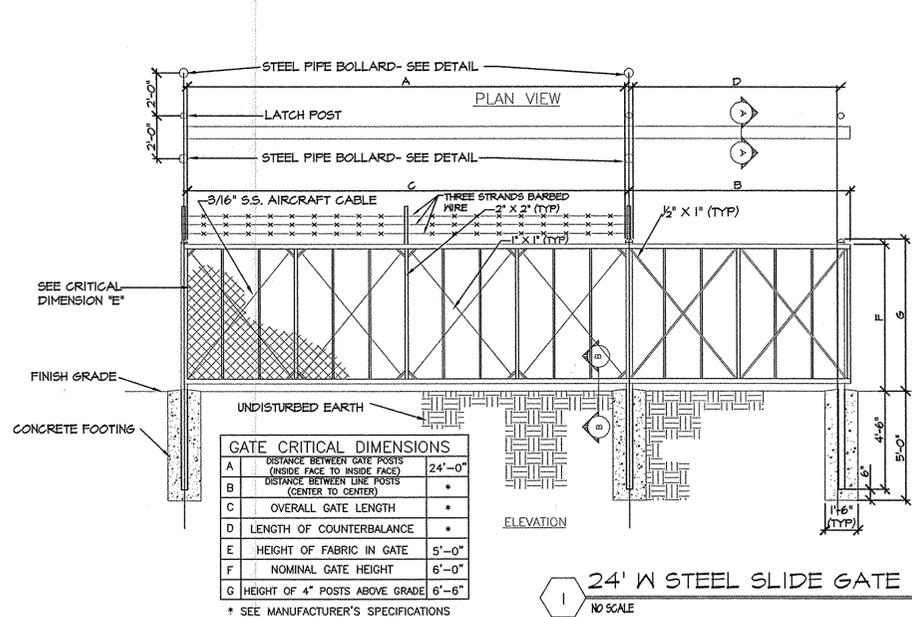
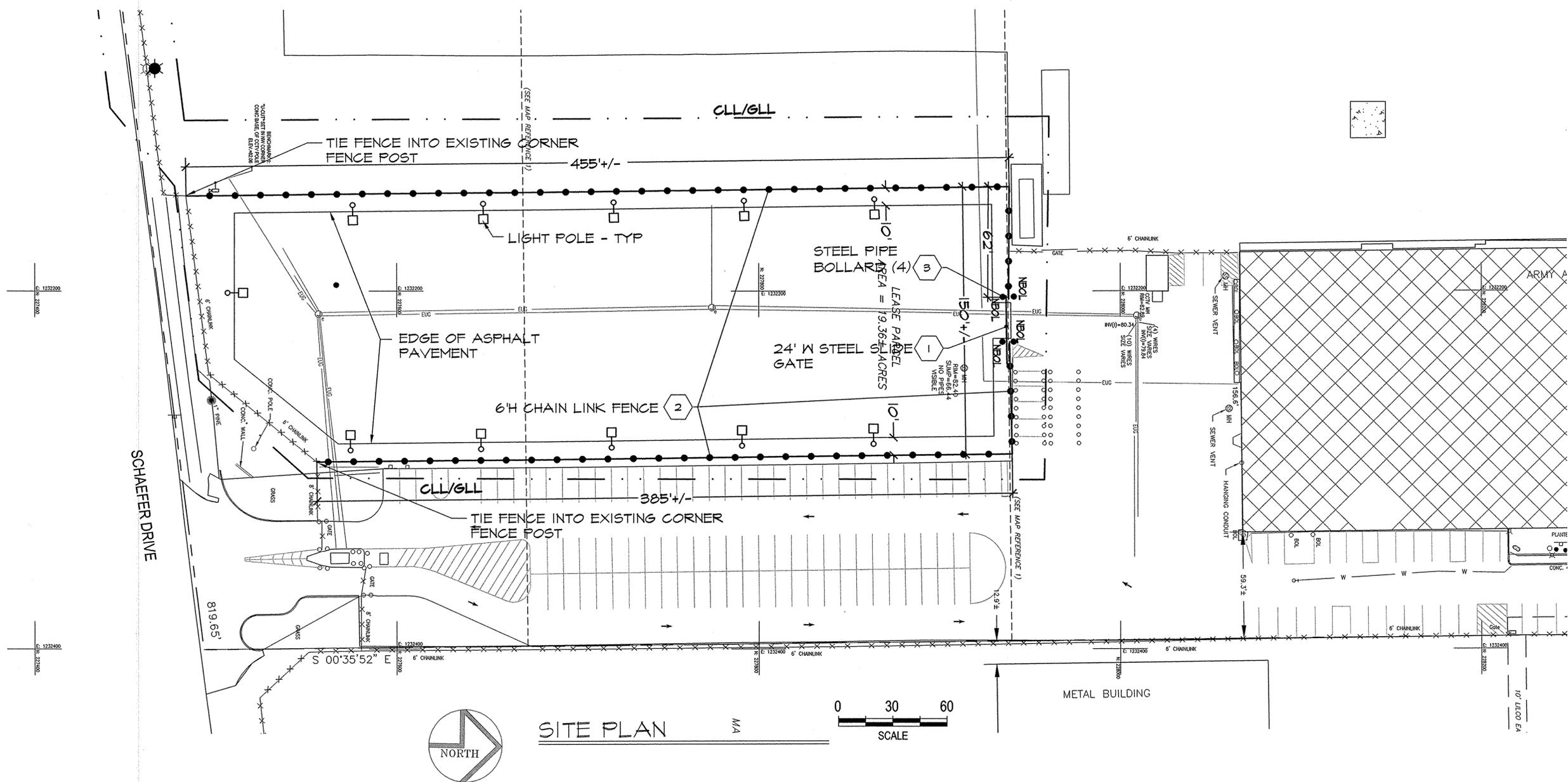
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 MACARTHUR AIRPORT, 201 SCHAEFER DR.  
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CLIENT: **DIVISION OF  
 MILITARY & NAVAL AFFAIRS**

ADDENDUM DRAWING  
 12/23/2011

MARK	DATE	DESCRIPTION
	11/8/2011	BID DOCUMENTS
PROJECT NUMBER:	Q1536 - C	
DESIGNED BY:		
DRAWN BY:		
FIELD CHECK:		
APPROVED:		
SHEET TITLE:	SITE PLAN	

DRAWING NUMBER: **C-103**  
 SHEET OF



Dec 23, 2011 11:46am  
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