

NEW JERSEY DEPARTMENT OF TRANSPORTATION

WEST ORANGE MAINTENANCE YARD

1255 PLEASANT VALLEY WAY
WEST ORANGE, ESSEX COUNTY, NEW JERSEY
DPMC PROJECT NO. T0574-05

STATE OF NEW JERSEY
HONORABLE CHRIS CHRISTIE, GOVERNOR
HONORABLE KIM GUADAGNO, LIEUTENANT GOVERNOR

INDEX OF SHEETS		
SHEET NO.	DWG. NO.	DESCRIPTION
1	T-01	COVER SHEET, INDEX, PROJECT LOCATION
2	S-01	COLUMN REPAIR PARTIAL PLAN, ELEVATION & SECTION

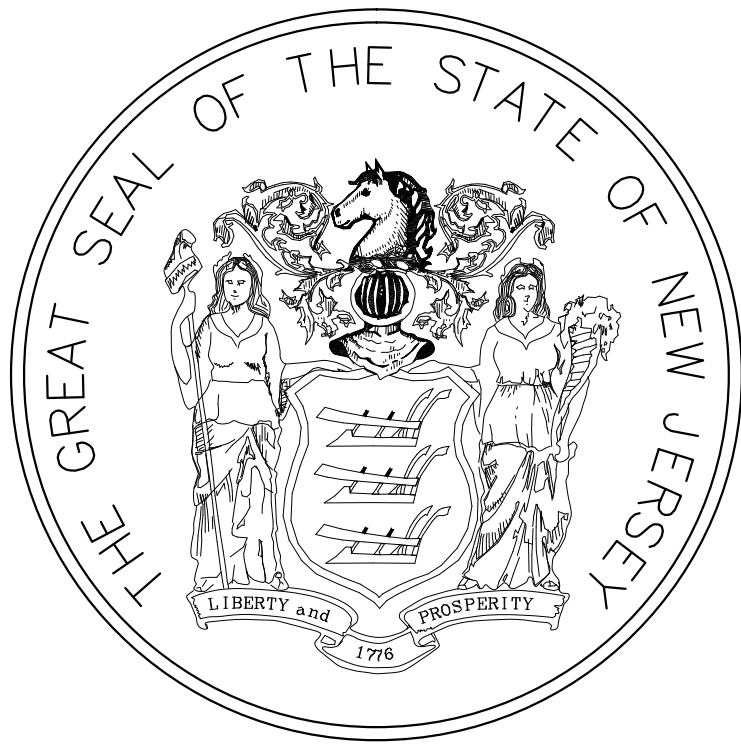
APPLICABLE CODES:
NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
INTERNATIONAL BUILDING CODE 2015 (IBC) NEW JERSEY EDITION
REHABILITATION SUBCODE (NJAC 5:23-6)

THIS PROJECT IS A REPAIR AS DEFINED BY THE NJ REHABILITATION SUBCODE

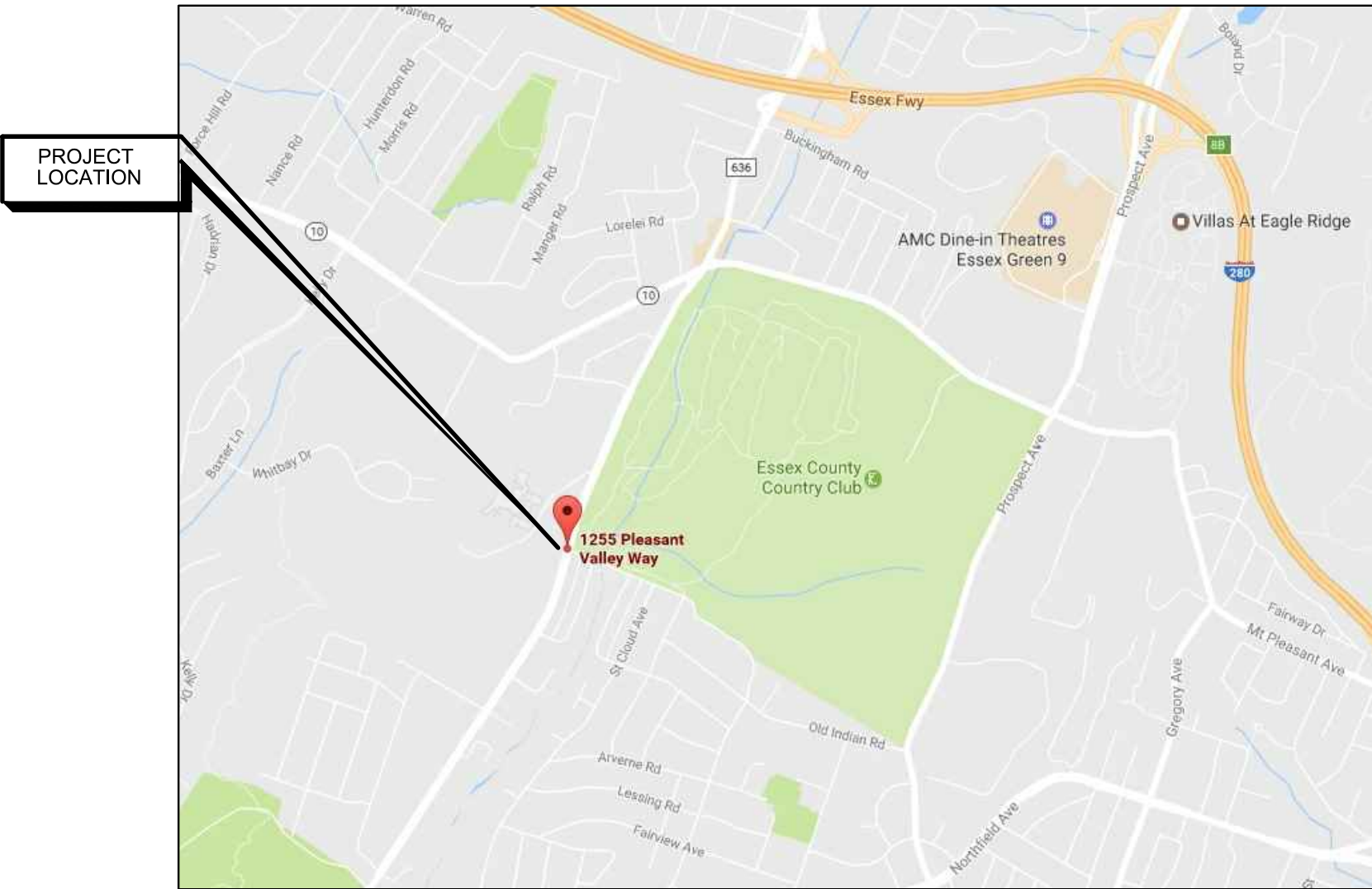
BUILDING CLASS NJAC 5:23-4.3A(d)
CLASS 3

USE AND OCCUPANCY CLASSIFICATION IBC SECTION 302
S-1 "STORAGE" & B "BUSINESS" MIXED NON SEPARATED PER IBC 508.2

CONSTRUCTION CLASSIFICATION IBC SECTION 602
TYPE IIB



DEPARTMENT OF THE TREASURY
FORD M. SCUDDER, STATE TREASURER
DEPARTMENT OF THE TRANSPORTATION
RICHARD T. HAMMER, COMMISSIONER



LOCATION MAP 

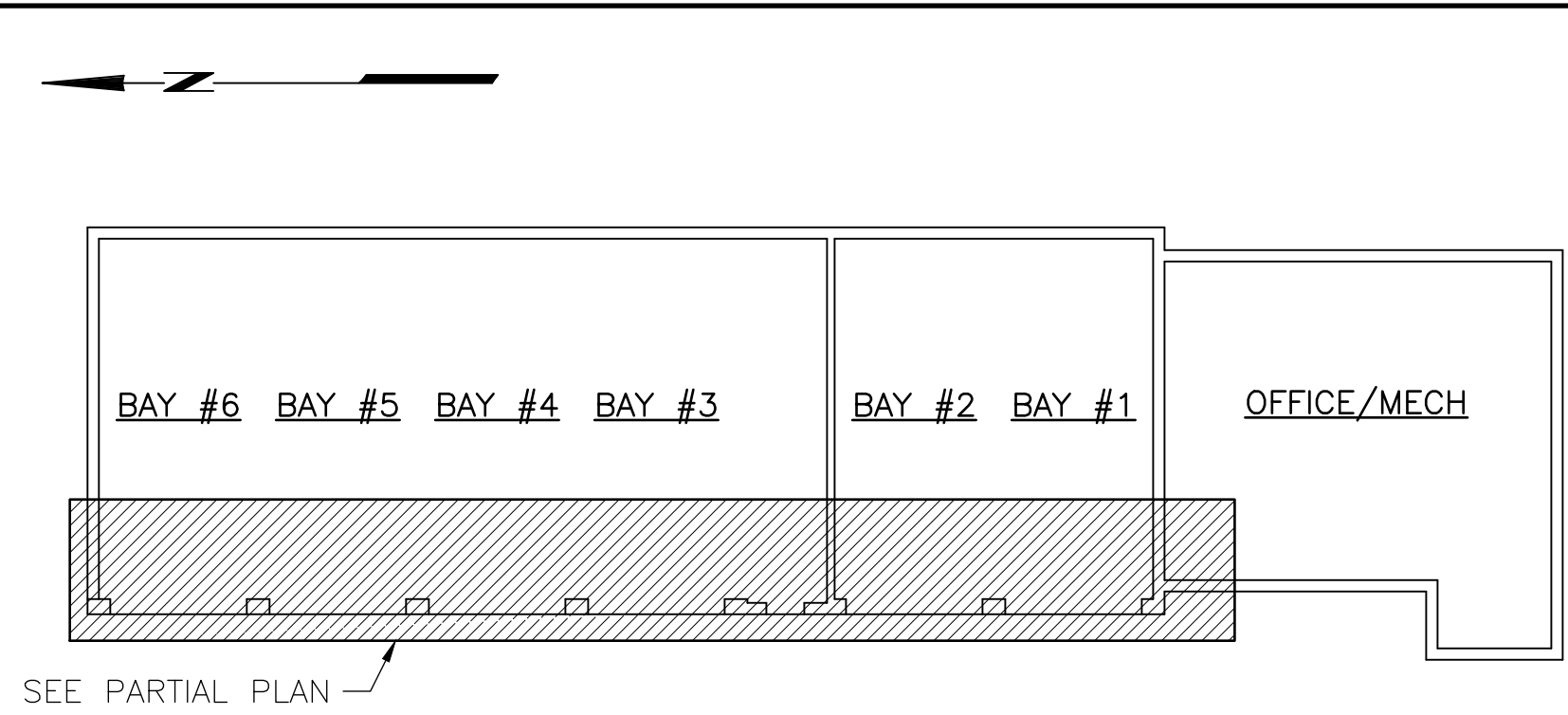
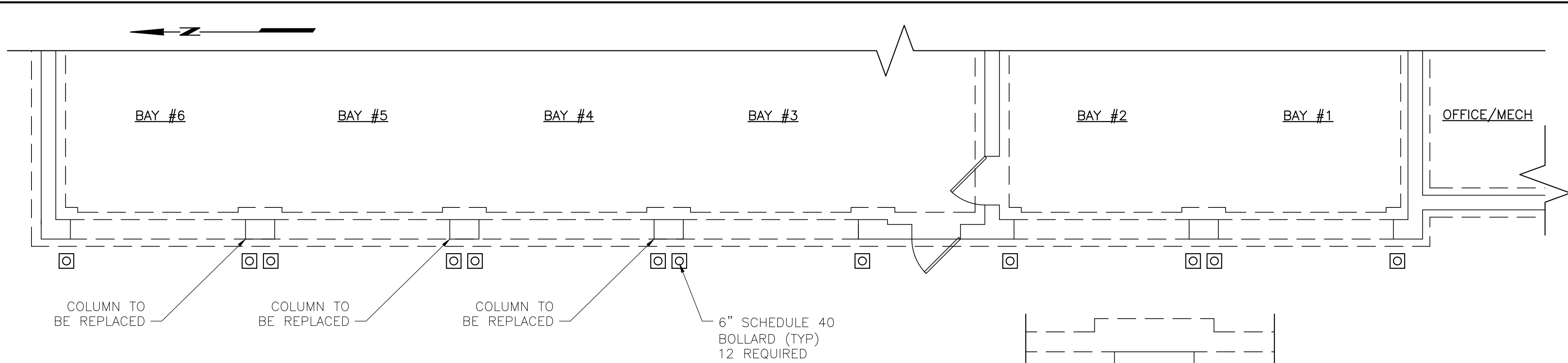
Submitted By:



5 EVES DRIVE - SUITE 200, MARLTON, NJ 08053
CERTIFICATE OF AUTHORIZATION NO. 24GA28032500

Submitted On:
MARCH 21, 2017

TERESA PETERSON
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE04558200



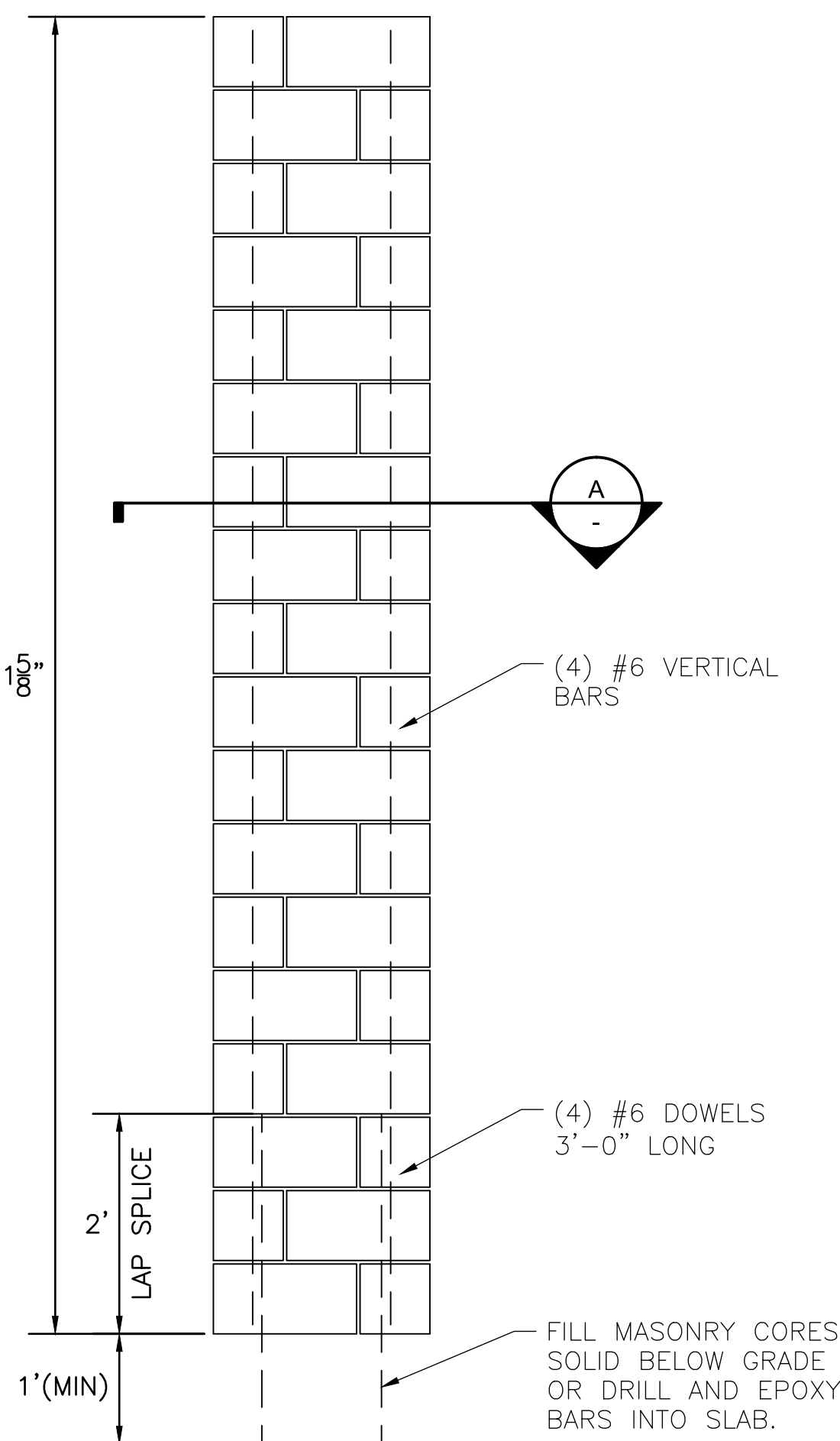
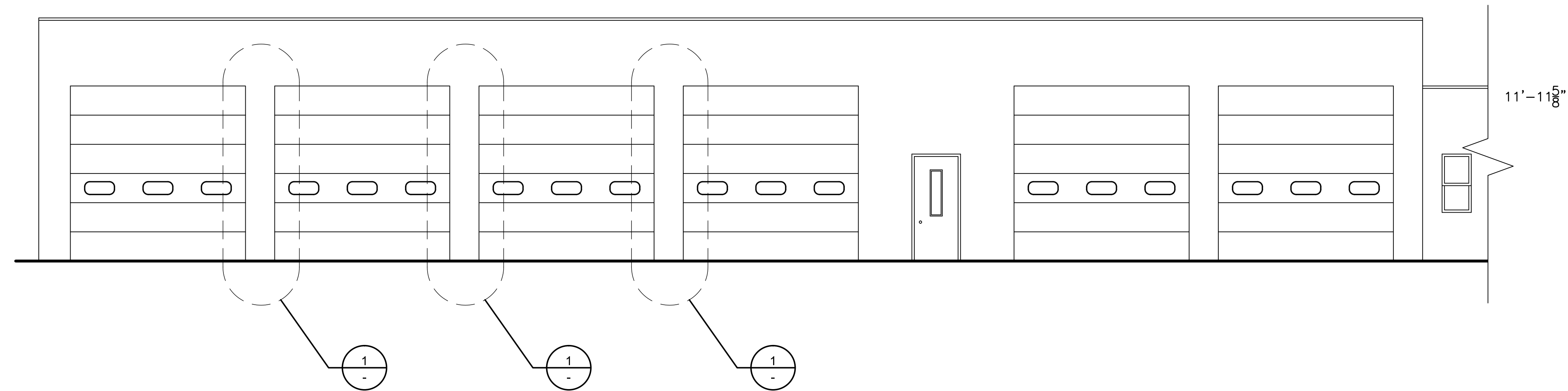
KEY PLAN

SPECIFICATIONS:

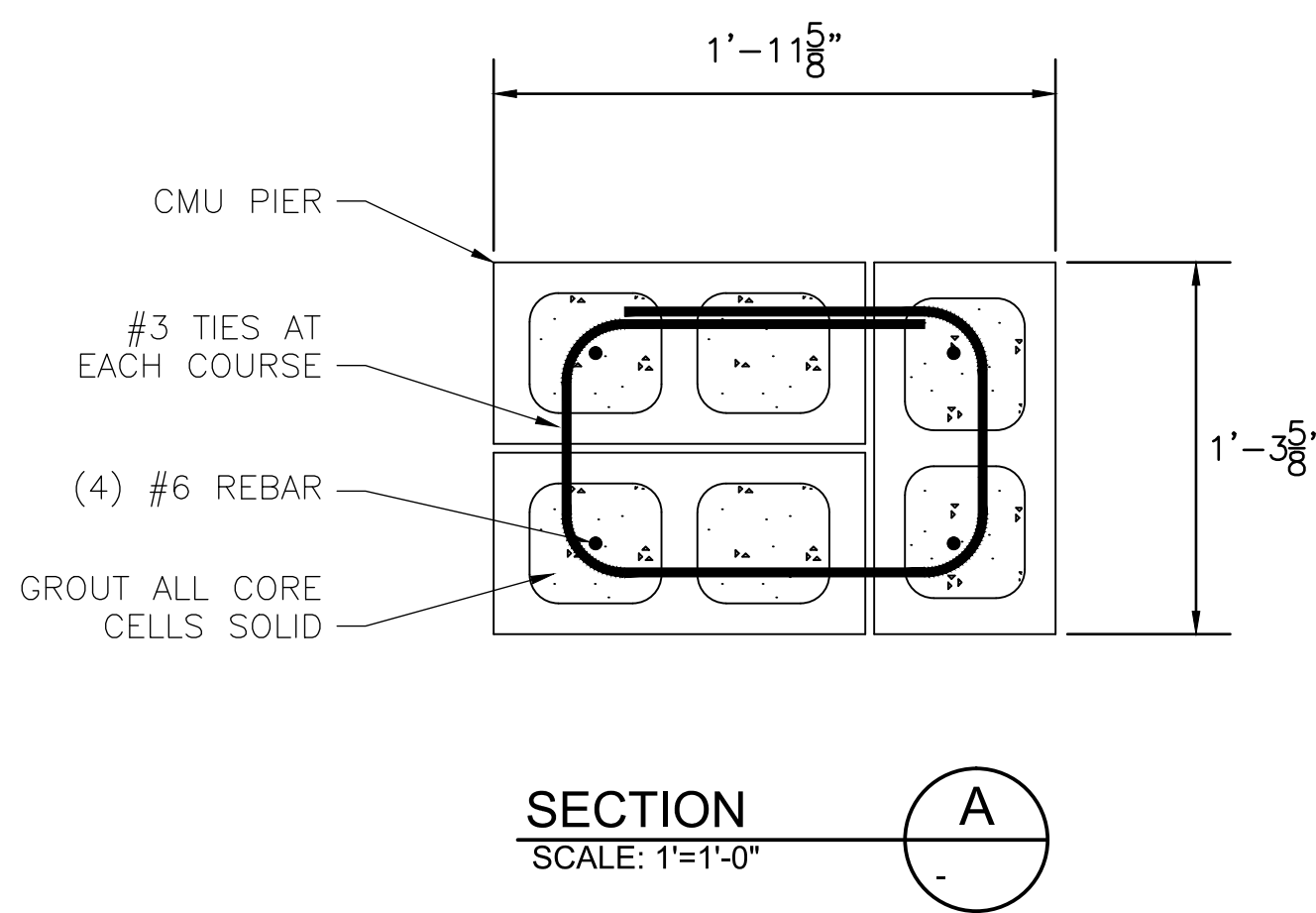
1. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530-99 AND ACI 530R-99, "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY CONSTRUCTION AND COMMENTARY" LATEST EDITION.
2. MASONRY UNITS SHALL BE GRADE N, TYPE I, MEDIUM WEIGHT HOLLOW CONCRETE UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90. UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'm) OF 1900 PSI ON THE NET CROSS SECTIONAL AREA AT 28 DAYS. MASONRY UNITS SHALL NOT BE INSTALLED PRIOR TO ATTAINING THE REQUIRED 28 DAY STRENGTH.
3. MORTAR - TYPE S AND SHALL HAVE A MINUMUM COMPRESSIVE STRENGTH OF 1800 PSI.
4. MASONRY CELLS SHALL BE FILLED SOLID USING MASONRY GROUT HAVING A COMPRESSIVE STRENGTH OF 3000 PSI. GROUT SHALL CONFORM TO ASTM C 476 AND HAVE COARSE AGGREGATE.
5. ALL DOWELS AND REINFORCING BARS SHALL BE ASTM A615 GRADE 60.
6. BOLLARDS SHALL BE 6" SCHEDULE 40 PIPE (CONCRETE FILLED USING 3000 PSI CONCRETE). BOLLARD MATERIAL SHALL BE FY=35 KSI, ASTM A53 GRADE B. BASE PLATE SHALL BE FY= 36 KSI, ASTM A36. BOLLARDS SHALL BE INSTALLED PER BOLLARD DETAIL.
7. NON-SHRINK GROUT SHALL BE IN ACCORDANCE WITH ASTM C109 AND HAVE A 28 DAY COMPRESSIVE STRENGTH GREATER THAN 6000 PSI.

PROCEDURE:

1. RAISE BOTH OVERHEAD DOORS ON EACH SIDE OF PIER AND REMOVE GARAGE DOOR HARDWARE TO BE REINSTALLED TO NEW MASONRY PIER.
2. SHORE UP EXISTING LINTELS ON BOTH SIDES OF THE PIER, AND JACK (LIFT) LINTELS ON BOTH SIDES TO REMOVE ANY LOAD FROM PIER. SHORING SHALL HAVE THE BEARING CAPACITY OF 10,000 POUNDS PER EACH SIDE OF EACH SUPPORTED LINTEL.
3. REMOVE EXISTING PIER AT GRADE LEVEL TO UNDERSIDE OF LINTELS.
4. FILL EXISTING CONCRETE MASONRY BLOCK VOIDS BELOW GRADE LEVEL WITH 3000 PSI CONCRETE AND ADD FOUR (4) #6 REINFORCING BARS AT THE EACH OF THE FOUR (4) CORNERS (DRILL AND EPOXY BARS IN PLACE IF NECESSARY).
5. REBUILD 24 INCH X 16 INCH PIER USING 8 INCH X 16 INCH X 8 INCH CONCRETE MASONRY UNITS (CMU). REINFORCE CMU PIER WITH FOUR (4) #6 REINFORCING BARS FILLING ALL PIER VOIDS WITH TYPE S MORTAR. ALL MORTAR SHALL BE TYPE S TO CONSTRUCT NEW MASONRY PIER.
6. FILL TOP COURSE OF CMU BLOCK SOLID AT TOP OF PIER EMBEDDING EXISTING LINTEL ANCHORAGE IN TOP BLOCK AND PACK SOLID TO UNDERSIDE OF EXISTING BLOCK AND LINTEL.
7. WHEN WALL IS CURED, REMOVE PRESSURE FROM JACK (LOWER) AND REMOVE SHORING.
8. REPLACE STEEL CORNER ANGLE (L4X4X3/8) TO EACH EXTERIOR CORNER.
9. REINSTALL OVERHEAD DOOR HARDWARE AND ASSURE THAT OVERHEAD DOOR IS WORKING PROPERLY.
10. REINSTALL GARAGE DOOR MOLDINGS TO ASSURE A TIGHT SEAL AROUND EACH OF THE SIX (6) DOORS.

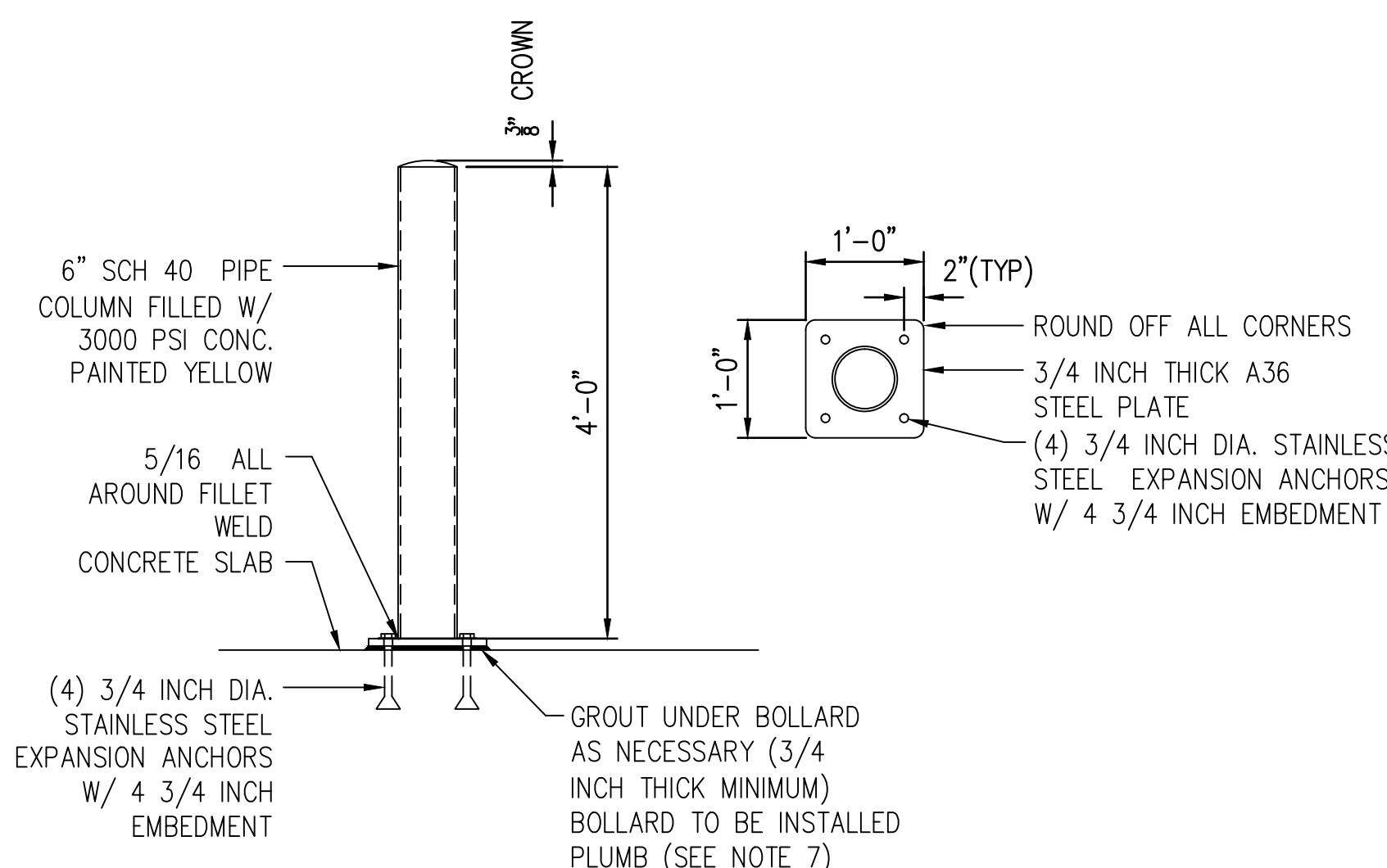


1 COLUMN ELEVATION
SCALE: 3/8" = 1'-0"

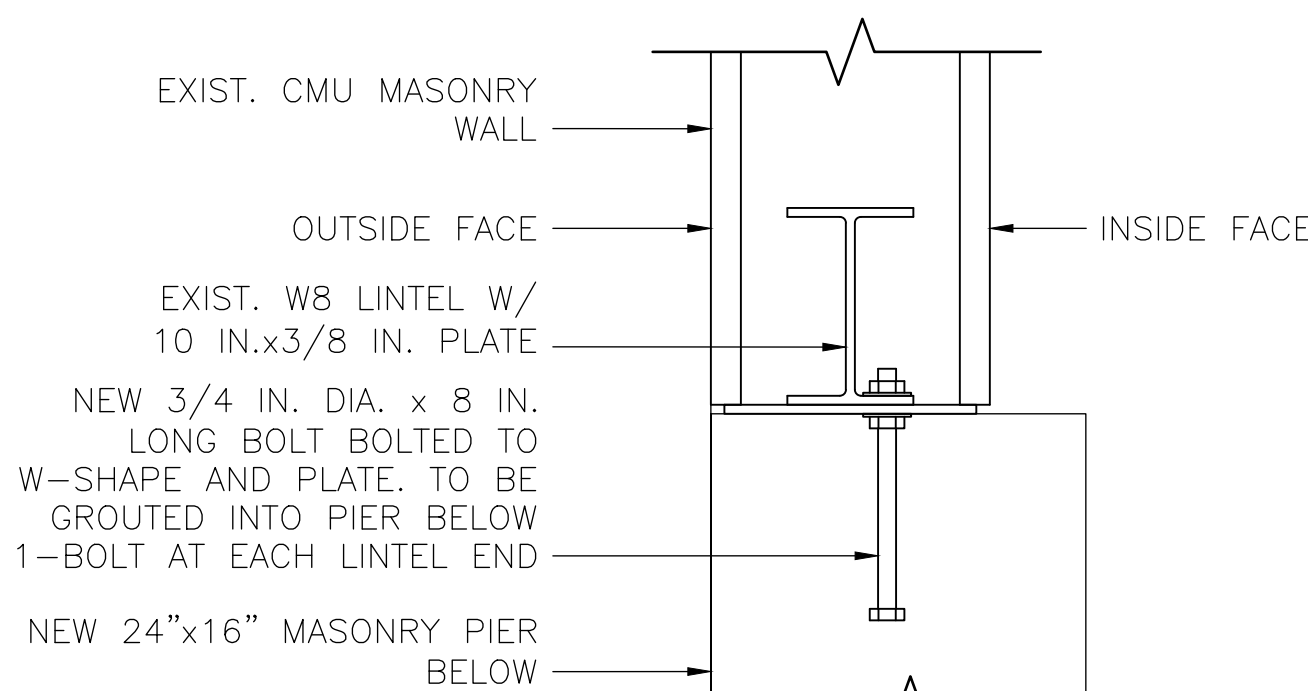


SECTION
SCALE: 1"=1'-0"

PARTIAL ELEVATION
NOT TO SCALE



BOLLARD DETAIL
NOT TO SCALE



LINTEL CONNECTION
DETAIL
NOT TO SCALE

NO.	DATE	MODIFICATION	DRAWN	CHKD.	APPRVD.
REVISIONS					

DISCLAIMER
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NORMAN M. SMEAL
PROFESSIONAL ENGINEER

N.J. LIC. NO. 24GE04691400
DATE:

DESIGNED	NS
DRAWN	NS
CHECKED	AA
APPROVED	TP



5 EVES DRIVE, SUITE 200
MARLTON, NJ 08053 TEL. (856-396-2226)
CERTIFICATE OF AUTHORIZATION NO. 24GA28032500

MARLTON, NJ

NEW JERSEY
DEPARTMENT OF THE TREASURY
DIVISION OF
PROPERTY MANAGEMENT AND CONSTRUCTION

FACILITIES

MAINTENANCE YARD WEST ORANGE 1255 PLEASANT WAY, NJ 07052		PHASE CONSTRUCTION	PROJECT NUMBER 61556
T0574-05 COLUMN REPAIR PART. PLAN, ELEV. & SECTION		SCALE: AS SHOWN	DATE: 03-21-2017
SHEET 1		DRAWING NUMBER S-01	
		OF 1	