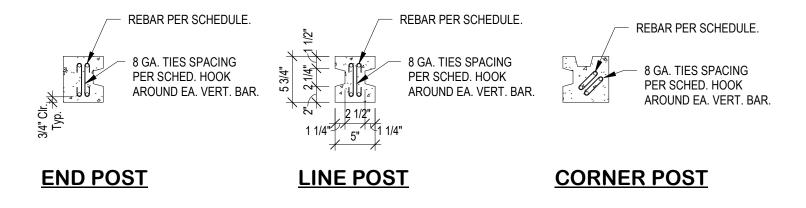
### PRELIMINARY - SCHEDULE FOR 6' TALL FENCE

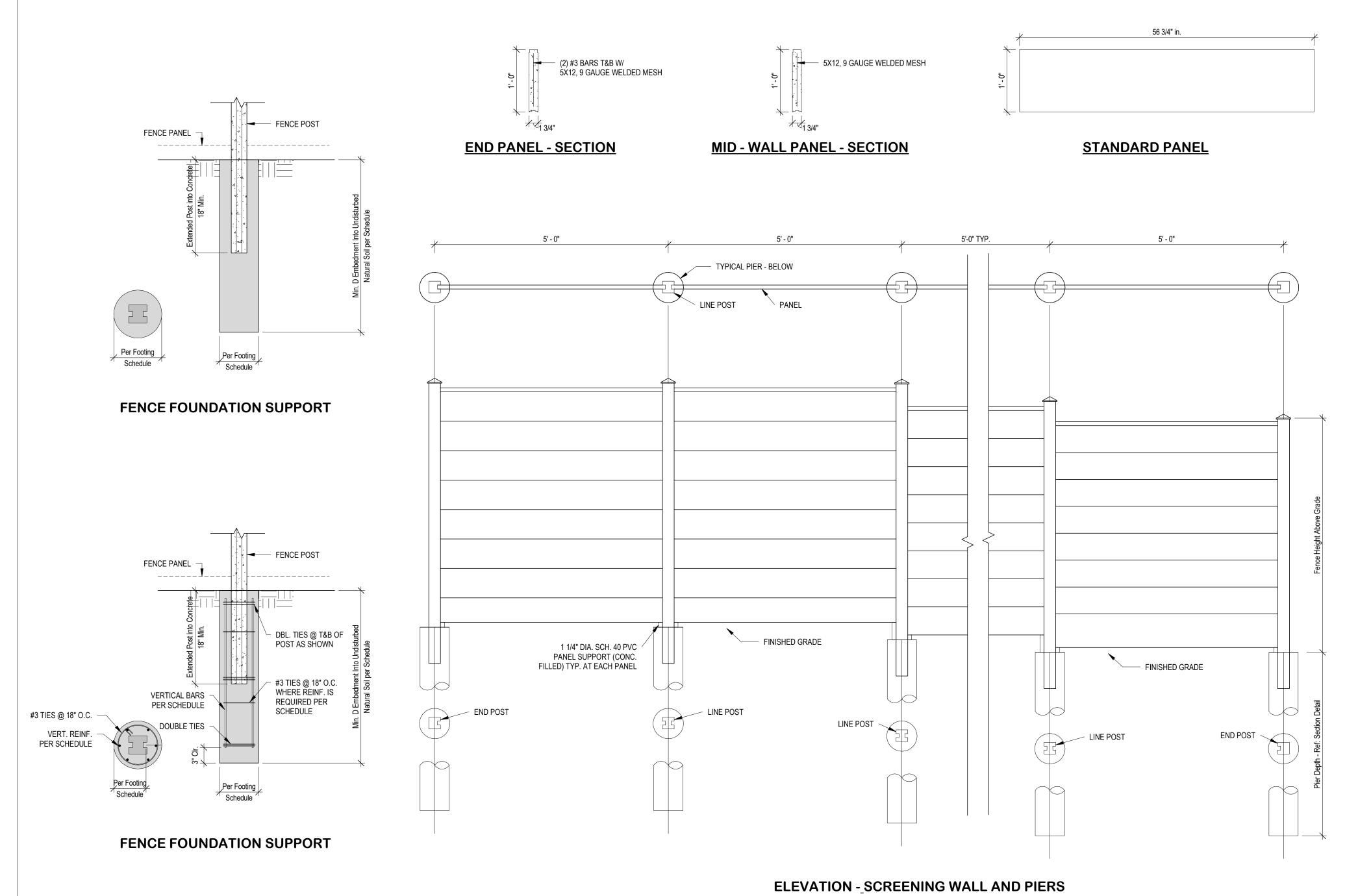
POST TYPE	POST* REINF.	PIER DIAM.	PIER DEPTH**	PIER REINF.
CORNER/END POST	(4) #3	18"	3'-6"	(4) #4
LINE POST	(4) #4	18"	4'-6"	(4) #4

\* HALF OF BARS SPECIFIED TO BE PLACED ON EACH FACE OF COLUMN. \*\* BASED ON SOILS REPORT MINIMUM REQUIREMENTS

PRELIMINARY - SCHEDULE FOR 8' TALL FENCE				
POST TYPE	POST* REINF.	PIER DIAM.	PIER DEPTH**	PIER REINF.
CORNER/END POST	(4) #4	18"	4'-0"	(6) #5
LINE POST	(4) #6	18"	5'-3"	(6) #5

\* HALF OF BARS SPECIFIED TO BE PLACED ON EACH FACE OF COLUMN.





### SPECIFICATIONS AND NOTES

- A. <u>GENERAL</u>
  - THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE IBC, 2024 EDITION.
  - APPLIED LOADS: a. WIND VELOCITY (V) = 140 MPH; Vasd = 101 MPH
  - b. EXPOSURE: C
  - c. VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz) = 0.85 d. WIND DIRECTIONALITY FACTOR (Kd) = 0.85 e. TOPOGRAPHIC FACTOR (Kzt) = 1.0
  - i. RISK CATEGORY = I
  - WALL IS TO BE CONSTRUCTED ENTIRELY ON THE PROJECT PROPERTY. COLOR:
- a. POST, PANELS AND PANEL CAPS SHALL BE INTEGRALLY COLORED. b. COLOR SHALL BE APPROVED BY THE ON-SITE OWNER / ARCHITECT.

PROPERTIES SHOWN ON THIS PLAN.

- THE CONTRACTOR/OWNER IS RESPONSIBLE FOR HIRING A GEOTECHNICAL ENGINEER TO DETERMINE IF LOCAL SOIL CONDITIONS MEET OR EXCEED MINIMUM SOIL
- PIER INSTALLATION MAY ENCOUNTER AREAS OF GRANULAR, COLLAPSING SOILS THAT MAY CONTAIN PERCHED GROUNDWATER. PIERS MUST BE EXTENDED THROUGH SOFT AND ORGANIC DEPOSITS TO PROVIDE ADEQUATE LATERAL AND VERTICAL SUPPORT. TEMPORARY CASING MAY BE NECESSARY FOR THE DRILLED PIER INSTALLATION OPERATIONS TO MAINTAIN THE DRILLED SHAFT OPEN THROUGH THESE SOILS DURING
- CONSTRUCTION. IF THE CONTRACTOR FINDS ANY DISCREPANCIES BETWEEN THE SITE AND THESE
- PLANS, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY. UPON RECEIPT OF PRECAST PRODUCTS AT THE JOB SITE, THE INSTALLATION TEAM SHALL VERIFY THOSE PRODUCTS ARE FREE OF CRACKS AND DEFECTS PRIOR TO INSTALLATION. ANY PRECAST PRODUCTS FOUND TO HAVE DEFECTS SHALL BE
- UNLESS SPECIFICALLY NOTED OTHERWISE, NO SURCHARGES MAY BE PLACED BEHIND A RETAINING WALL WITHIN A HORIZONTAL DISTANCE THAT IS EQUAL TO THE RETAINED HEIGHT. PROHIBITED SURCHARGES INCLUDE STAGING OF CONSTRUCTION MATERIALS, VEHICLES, CONSTRUCTION, COMPACTION EQUIPMENT, AND VEGETATION.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE WALL AND PIERS SHALL NOT BE INSTALLED ADJACENT TO HILLSIDES, BERMS, RETAINING WALLS, OR OTHER AREAS THAT MAY AFFECT THE LATERAL BEARING CAPACITY OF THE PIERS. CONTACT THE ENGINEER PRIOR TO INSTALLATION IF SUCH A CONDITION EXISTS.

### CONCRETE MATERIALS:

a. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE HAVING SAND AND GRAVEL OR CRUSHED STONE AGGREGATE. MIXED WITH ASTM-C150, TYPE I OR III PORTLAND CEMENT TO MEET THE MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:

ELEMENTS	f'c (28 DAYS)	SLUMP	MAX. W/C RATIO	INSP. REQ'D?
PRECAST PANELS & POSTS	2500 PSI	5"	0.55	NO*
FOOTINGS & PIERS	2500 PSI	5"	0.60	NO*

\*PRECAST PANELS & POSTS HAVE BEEN DESIGNED FOR F'C OF 2500 PSI, THEREFORE INSPECTION IS NOT REQUIRED. \*FOOTINGS & PIERS HAVE BEEN DESIGNED FOR F'C OF 2500 PSI, THEREFORE

INSPECTION IS NOT REQUIRED. b. WATER USED FOR CONCRETE SHALL BE CLEAN WATER AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALITES, ORGANIC OR OTHER DELETERIOUS SUBSTANCES.

a. FRESH POURED CONCRETE SHALL BE TAMPED IN TO PLACE USING STEEL RAMMER, SLICING TOOLS, OR MECHANICAL VIBRATOR, UNTIL CONCRETE IS THOROUGHLY COMPACT AND WITHOUT VOID.

b. EXCAVATION FOR FOOTING SHALL BE ON UNDISTURBED SOIL OR TO THE DEPTH NOTED ON THE DRAWINGS. LEAVE THE BOTTOM BEARING SURFACE CLEAN AND SMOOTH. IF FOOTING EXCAVATIONS ARE MADE DEEPER THAN INTENDED, ONLY CONCRETE SHALL BE USED FOR FILL. REMOVE ALL LOOSE MATERIAL FROM EXCAVATIONS PRIOR TO CONCRETE POUR.

- ALL AGGREGATES SHALL CONFORM TO ASTM C33. MAXIMUM AGGREGATE SIZES: a. FOOTINGS:
- b. ALL OTHER WORK: 3/4"
- THE OWNER RECOGNIZES HIS OR HER OBLIGATION TO ENSURE THAT THE CONSTRUCTION COMPLIES WITH THE APPROVED PERMIT DOCUMENTS AND TO IMPLEMENT THIS PROGRAM OF SPECIAL INSPECTIONS. IN PARTIAL FULFILLMENT OF THESE OBLIGATIONS, THE OWNER WILL RETAIN AND DIRECTLY PAY FOR THE SPECIAL INSPECTIONS AS REQUIRED IN THE GOVERNING BUILDING CODE, SECTION 1704.2.

### REINFORCEMENTS:

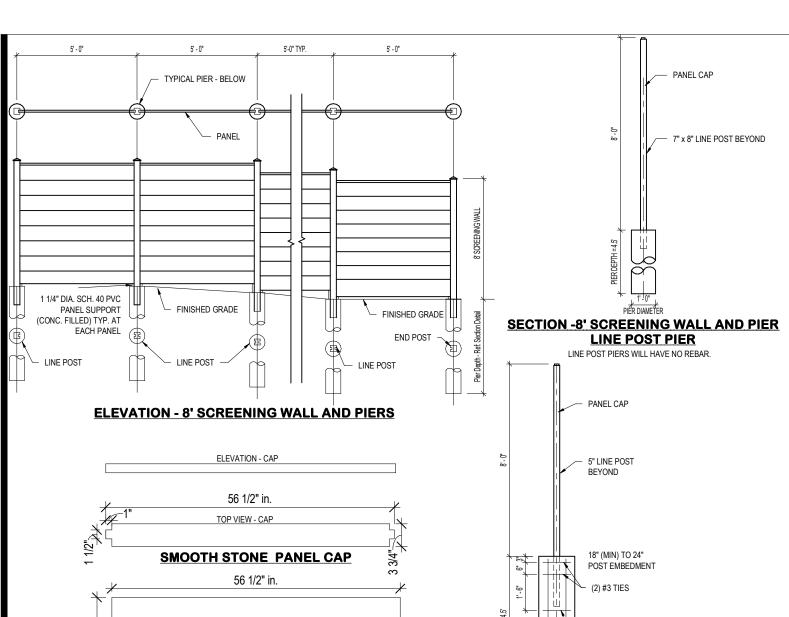
- REINFORCING MATERIAL: a. DEFORMED TYPE BARS SHALL CONFORM TO ASTM-A 615, GRADE 60 PLACED AS
- SHOWN ON THE DRAWINGS. b. STEEL REINFORCING WIRE SHALL MEET U.S. STEEL WIRE GAUGE, ASTM-A 82. fy = 70,000 PSI MIN GALVANIZED.
- c. ALL TIES AND STIRRUPS SHALL CONFORM TO ASTM-A 615, GRADE 40. d. ALL WIRE MESH SHALL BE GALVANIZED WITH THE GAUGE AND SPACING PER PLAN.
- THE SMALLER SPACING SHALL BE PLACED IN THE HORIZONTAL DIRECTION.
- REINFORCING WORKMANSHIP:
- a. REINFORCEMENT STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE CRSI STANDARD DETAIL. REINFORCING BARS SHALL BE COLD-BENT ONLY. USE OF HEAT TO BEND REINFORCEMENT STEEL SHALL BE CAUSE FOR REJECTION. b. REINFORCEMENT STEEL BARS AND WIRE FABRIC SHALL BE THOROUGHLY CLEANED BEFORE PLACING AND AGAIN BEFORE THE CONCRETE IS PLACED. SHALL BE ACCURATELY POSITIONED AND SECURED IN PLACE. NO BRICK OF POROUS MATERIALS
- MAY BE USED TO SUPPORT THE STEEL OFF THE GROUND. c. INSTALL ALL REINFORCEMENT WITH THE FOLLOWING CLEARANCE BETWEEN
- REINFORCING STEEL AND FACE OF CONCRETE:
- 1. FOOTING, PIER OR BEAM BOTTOM (3")
- 2. EARTH-FORMED PIER OR BEAM SIDE (2") 3. FORMED FOOTING, PIER OR BEAM SIDES, EXPOSED (1") 4. PRECAST EXPOSED TO WEATHER: PANELS (3/4"), POSTS (1-1/4") d. SPLICES WITHIN CONTINUOUS UNSCHEDULED REINFORCING STEEL SHALL HAVE A
- MINIMUM LAP OF 30 BAR DIAMETERS.
- FOOTING SIZE IS BASED ON THE FOLLOWING MINIMUM SOIL PROPERTIES:
  - a. SOIL COMPACTION 95%
  - c. BEARING CAPACITY (TOTAL LOAD + W/E) 1500 PSF d. FRICTION RESISTANCE 0.25
  - e. LATERAL BEARING 150 PSF/FT OF DEPTH f. ACTIVE PRESSURE 40 PCF
  - ASSUMED SOIL VALUES TO BE CONFIRMED BY GEOTECH ENGINEER AND ISSUE IN A GEOTECHNICAL REPORT (OR "SOILS REPORT").
- ALL DESIGN CRITERIA BASED ON CONSTRUCTION ON NATURAL GROUND. SCREENWALL NOT TO BE CONSTRUCTED ON BERMS OR FILL DIRT.



# **Duracrete**

Smooth StoneCast Fence

<sup>\*\*</sup> BASED ON SOILS REPORT MINIMUM REQUIREMENTS



### **SECTION -8' SCREENING WALL AND PIER**

1' - 6"

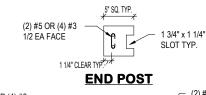
END POST PIERS WILL HAVE REBAR. END POST PIERS ARE DESIGNATED AS THE FIRST THREE POST AT THE END OF THE WALL.

**END POST PIER** 

- #3 TIES AT 18" O.C.

(3) #4 RFINE BARS

CONTINUOUS



**SMOOTH STONE PANEL - SECTION** 

**SMOOTH STONE STANDARD PANEL** 

#3 RFINFORCING

1/2" x 1 3/4" GROOVE

5X12, 9 GAUGE WELDED MESH

BAR, CONT

**SMOOTH STONE CAP - SECTION** 

1 3/4"

#### (2) #6 OR (4) #4 (2) #5 OR (4) #3 WIRE TIES 1/2 EA FACE 1/2 EA FACE

**CORNER POST LINE POST** 

#### SPECIFICATIONS AND NOTES

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APPLIED LOADS

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b. EXPOSURE: C

c. VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz) = 0.85

d. WIND DIRECTIONALITY FACTOR (Kd) = 0.85

e. TOPOGRAPHIC FACTOR (Kzt) = 1.0

i. RISK CATEGORY = I

WALL IS TO BE CONSTRUCTED ENTIRELY ON THE PROJECT PROPERTY.

COLOR:

a. POST, PANELS AND PANEL CAPS SHALL BE INTEGRALLY COLORED.

b. COLOR SHALL BE APPROVED BY THE ON-SITE OWNER / ARCHITECT. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR HIRING A GEOTECHNICAL ENGINEER TO DETERMINE IF LOCAL SOIL

CONDITIONS MEET OR EXCEED MINIMUM SOIL PROPERTIES SHOWN ON THIS PLAN.

PIER INSTALLATION MAY ENCOUNTER AREAS OF GRANULAR, COLLAPSING SOILS THAT MAY CONTAIN PERCHED GROUNDWATER, PIERS MUST BE EXTENDED THROUGH SOFT AND ORGANIC DEPOSITS TO PROVIDE ADEQUATE LATERAL AND VERTICAL SUPPORT. TEMPORARY CASING MAY BE NECESSARY FOR THE DRILLED PIER INSTALLATION OPERATIONS TO MAINTAIN THE DRILLED SHAFT OPEN THROUGH THESE SOILS DURING CONSTRUCTION.

IF THE CONTRACTOR FINDS ANY DISCREPANCIES BETWEEN THE SITE AND THESE PLANS. HE SHALL NOTIFY THE ENGINEER

UPON RECEIPT OF PRECAST PRODUCTS AT THE JOB SITE, THE INSTALLATION TEAM SHALL VERIFY THOSE PRODUCTS ARE FREE OF CRACKS AND DEFECTS PRIOR TO INSTALLATION. ANY PRECAST PRODUCTS FOUND TO HAVE DEFECTS SHALL BE

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#### REINFORCEMENTS:

(3) #4 REINF.

**PLAN VIEW** 

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b. STEEL REINFORCING WIRE SHALL MEET U.S. STEEL WIRE GAUGE, ASTM-A 82. fy = 70,000 PSI MIN GALVANIZED.

c. ALL TIES AND STIRRUPS SHALL CONFORM TO ASTM-A 615, GRADE 40.

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c. INSTALL ALL REINFORCEMENT WITH THE FOLLOWING CLEARANCE BETWEEN REINFORCING STEEL AND FACE OF CONCRETE:

1. FOOTING, PIER OR BEAM BOTTOM (3") 2. EARTH-FORMED PIER OR BEAM SIDE (2")

3 FORMED FOOTING PIER OR BEAM SIDES EXPOSED (1")

4. PRECAST EXPOSED TO WEATHER: PANELS (3/4"), POSTS (1-1/4")

d. SPLICES WITHIN CONTINUOUS UNSCHEDULED REINFORCING STEEL SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS.

FOOTING SIZE IS BASED ON THE FOLLOWING MINIMUM SOIL PROPERTIES

a. SOIL COMPACTION 95%

b. DENSITY 110 PCF

c. BEARING CAPACITY (TOTAL LOAD + W/E) 1500 PSF

d. FRICTION RESISTANCE 0.25 e. LATERAL BEARING 150 PSF/FT OF DEPTH

f. ACTIVE PRESSURE 40 PCF

ASSUMED SOIL VALUES TO BE CONFIRMED BY GEOTECH ENGINEER AND ISSUE IN A GEOTECHNICAL REPORT (OR "SOILS

ALL DESIGN CRITERIA BASED ON CONSTRUCTION ON NATURAL GROUND. SCREENWALL NOT TO BE CONSTRUCTED ON



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