

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

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

REBAR PER SCHEDULE.

8 GA. TIES SPACING PER SCHED. HOOK AROUND EA. VERT. BAR.

5' 3 3/4"

2' 3 1/4"

2 1/2"

REBAR PER SCHEDULE.

8 GA. TIES SPACING PER SCHED. HOOK AROUND EA. VERT. BAR.

REBAR PER SCHEDULE.

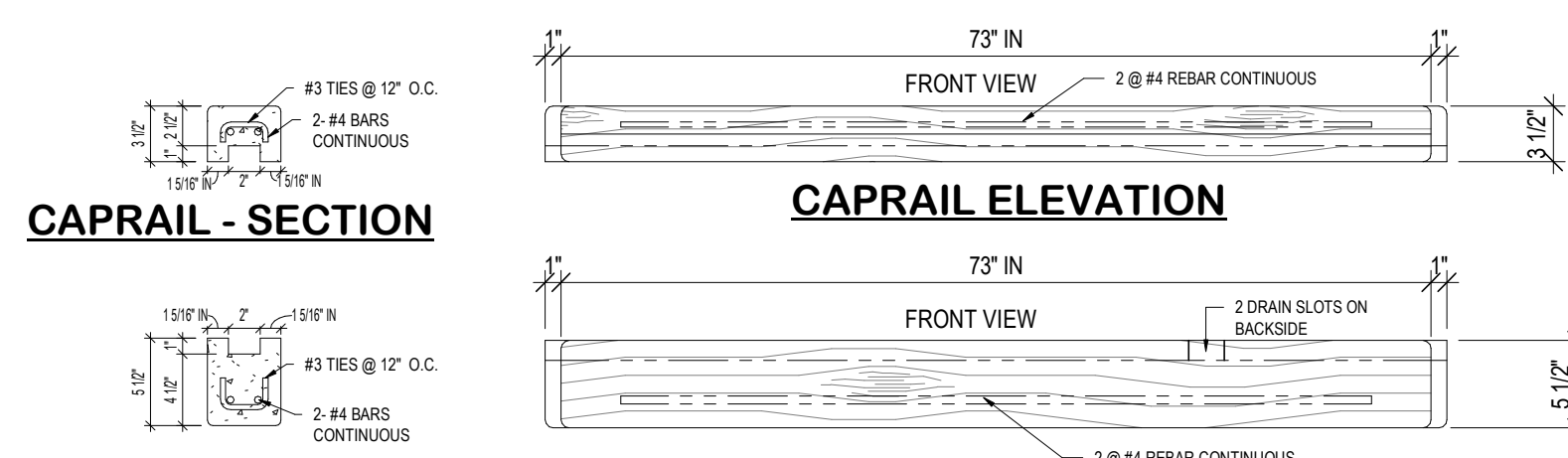
8 GA. TIES SPACING PER SCHED. HOOK AROUND EA. VERT. BAR.

3/4" Cr Typ.

END POST

LINE POST

CORNER POST

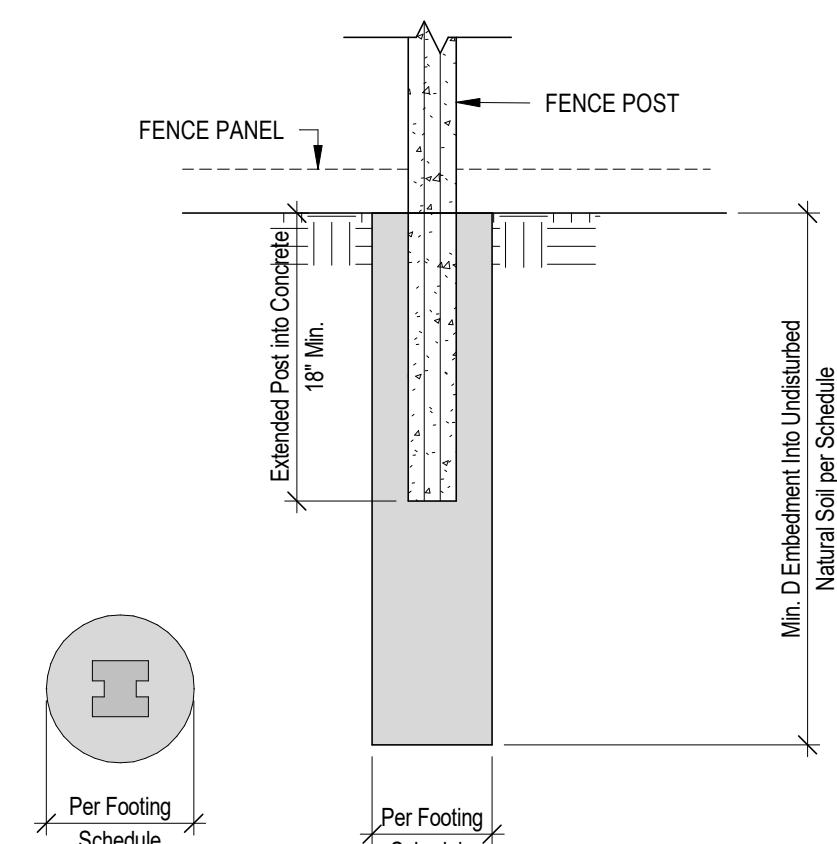


CAPRAIL - SECTION

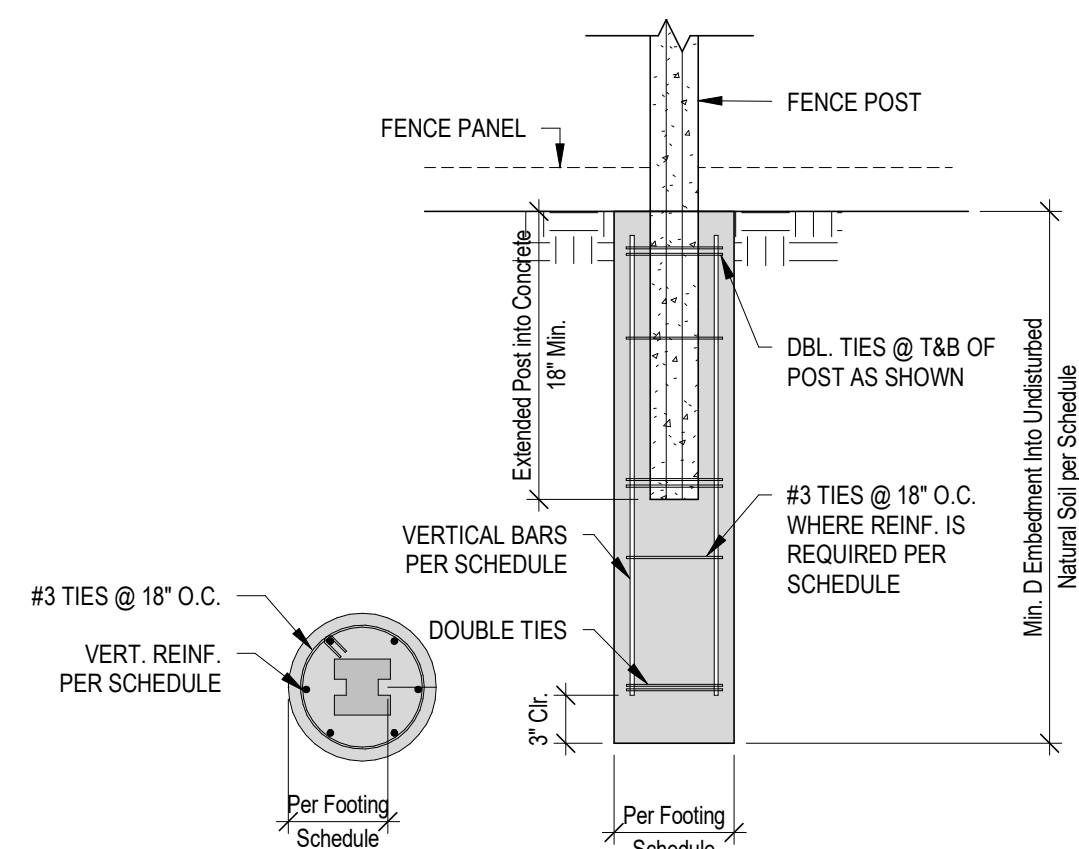
CAPRAIL ELEVATION

BOTTOM BEAM - SECTION

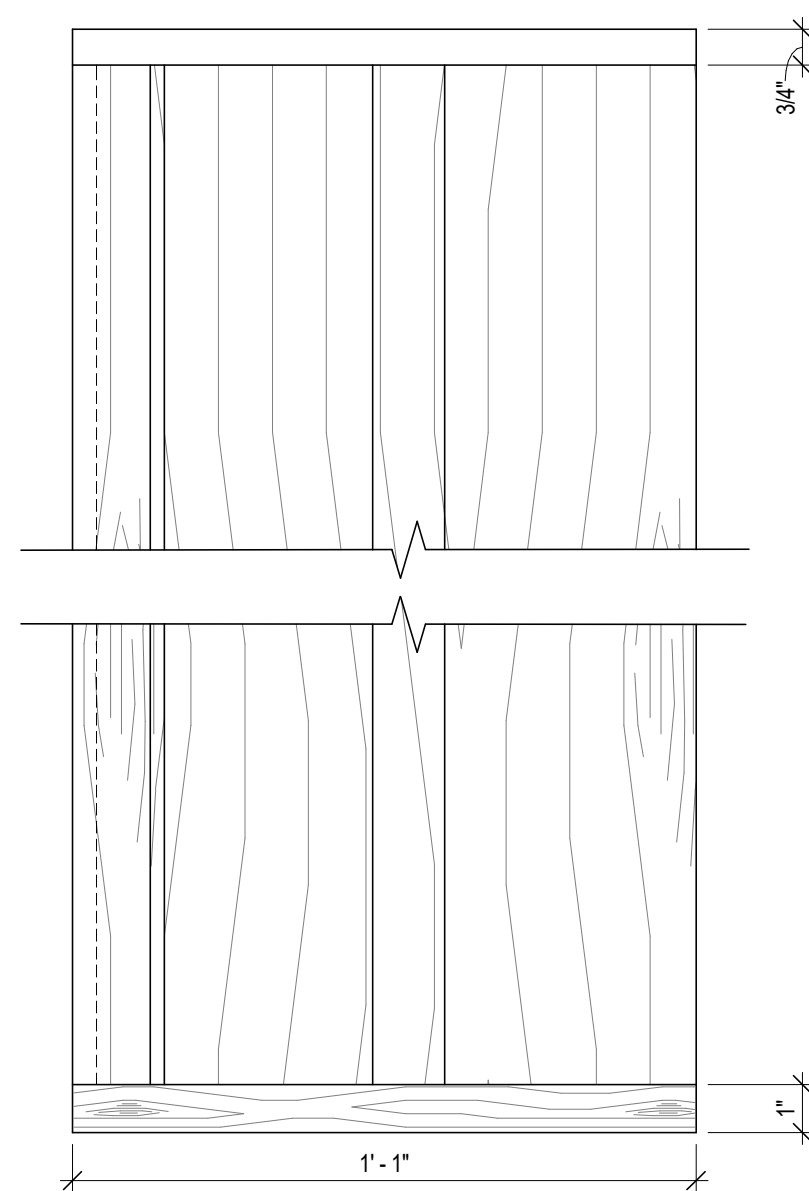
BOTTOM BEAM ELEVATION



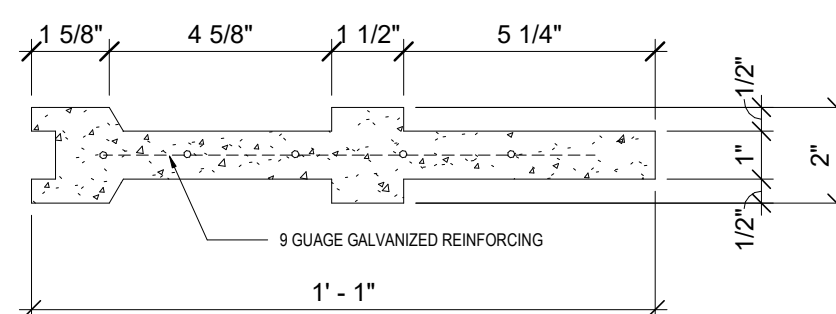
FENCE FOUNDATION SUPPORT



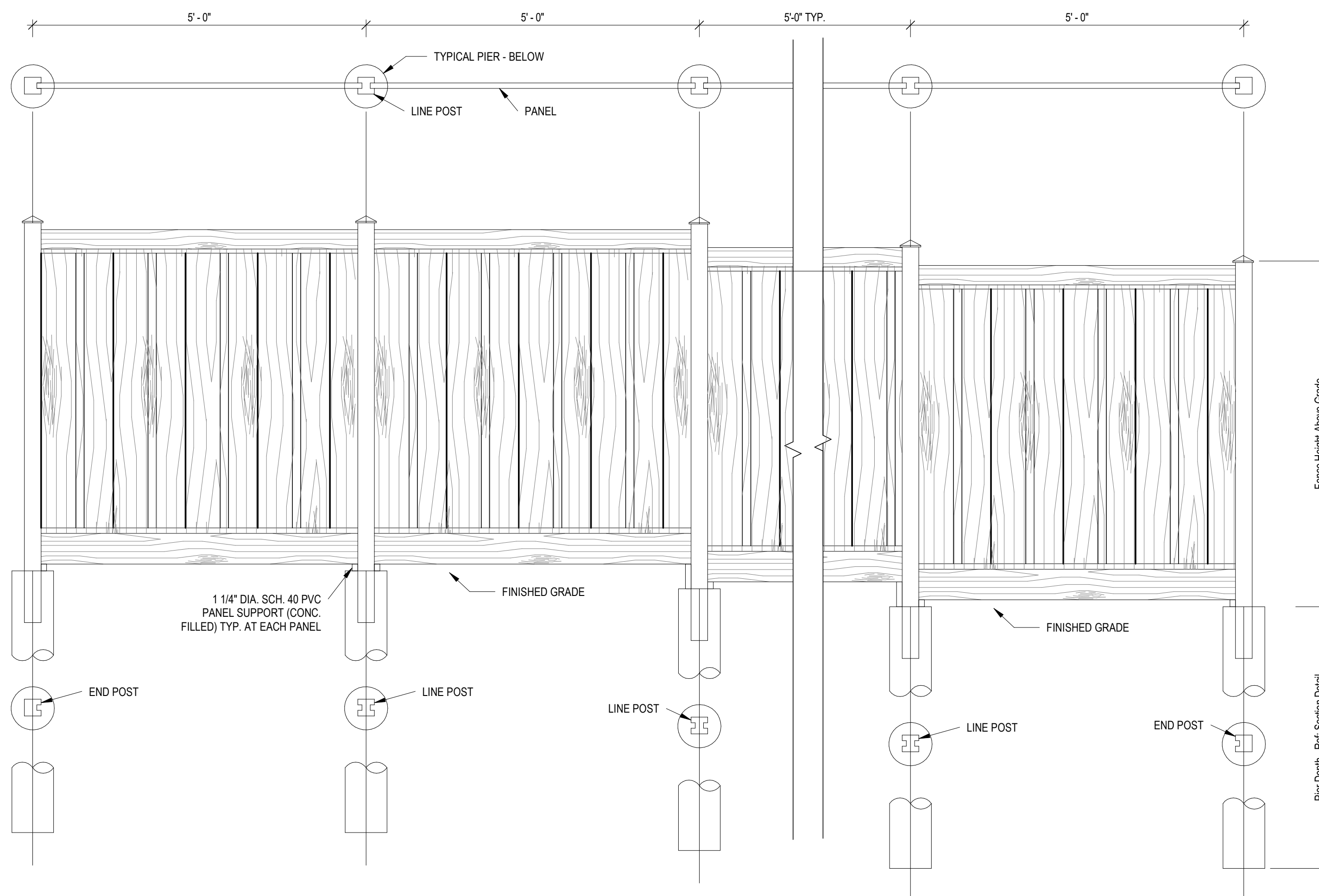
FENCE FOUNDATION SUPPORT



STANDARD PANEL



TYPICAL PANEL SECTION



ELEVATION - SCREENING WALL AND PIERS

A. GENERAL

1. THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE IBC, 2024 EDITION.
2. APPLIED LOADS:
 - a. WIND VELOCITY (V) = 140 MPH; $V_{nat} = 101$ MPH
 - b. EXPOSURE: C
 - c. WIND VELOCITY PRESSURE COEFFICIENT (K_z) = 0.85
 - d. WIND DIRECTIONALITY FACTOR (K_d) = 0.85
 - e. TOPOGRAPHIC FACTOR (K_{zt}) = 1.0
3. I. RISK CATEGORY = II
4. WALL IS TO BE CONSTRUCTED ENTIRELY ON THE PROJECT PROPERTY.
5. COLOR:
 - a. POST, PANELS AND PANEL CAPS SHALL BE INTEGRALLY COLORED.
 - b. COLOR SHALL BE APPROVED BY THE ON-SITE OWNER / ARCHITECT
6. 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.
7. 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.
8. TEMPORARY CASING MAY BE NECESSARY FOR THE DRILLED PIER INSTALLATION OPERATIONS TO MAINTAIN THE DRILLED SHAFT OPEN THROUGH THESE SOILS DURING CONSTRUCTION.
9. IF THE CONTRACTOR FINDS ANY DISCREPANCIES BETWEEN THE SITE AND THESE PLANS, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY.
10. 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 REPLACED.
11. 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.
12. 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

1. 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.

2. CONCRETE WORKMANSHIP:
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. PREPARATION 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.
c. ALL AGGREGATES SHALL CONFORM TO ASTM C33. MAXIMUM AGGREGATE SIZES:
 a. FOOTINGS: 1 1/2"
 b. ALL OTHER WORK: 3/4"
4. THE OWNER RECOGNIZES HIS OR HER OBLIGATION TO ENSURE THAT THE CONSTRUCTION COMPLIES WITH THE APPROVED PERMIT DOCUMENTS AND TO MAINTAIN THAT THE PROJECT MEETS ALL 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:

1. REINFORCEMENT 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. TENSILE STRENGTH.
 - 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.
2. REINFORCEMENT 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 APPROPRIATELY POSITIONED AND SECURED IN PLACE. NO BRICK OF POROUS MATERIALS MAY BE USED TO SUPPORT THE REINFORCEMENT.
 - c. INSTALL ALL REINFORCEMENT WITH THE FOLLOWING CLEARANCE BETWEEN REINFORCEMENT STEEL AND FACE OF CONCRETE:
 1. FOOTING, PIER OR BEAM BOTTOM (3")
 2. FORMED-FORMED PIER OR BEAM SIDE (2")
 3. EXPOSED FOOTING, PIER OR BEAM TOPS, 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.

SOILS:

1. 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 REPORT").

- FILL:
1. ALL DESIGN CRITERIA BASED ON CONSTRUCTION ON NATURAL GROUND. SCREENWALL NOT TO BE CONSTRUCTED ON BERMS OR FILL DIRT.



American Precast Walls

Duracrete

Cedar WoodCast



LINE POST PIERS WILL HAVE NO REBAR



SECTION -8' SCREENING WALL AND PIER
END POST PIER

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



- A. **GENERAL**
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 - b. EXPOSURE: C
 - c. VELOCITY PRESSURE EXPOSURE COEFFICIENT (K_z) = 0.85
 - d. WIND DIRECTIONALITY FACTOR (K_d) = 0.85
 - e. TOPOGRAPHIC FACTOR (K_{zt}) = 1.0
 - i. RISK CATEGORY = I
3. WALL IS TO BE CONSTRUCTED ENTIRELY ON THE PROJECT PROPERTY.
4. COLOR:
 - a. POST, PANELS AND PANEL CAPS SHALL BE INTEGRALLY COLORED.
 - b. COLOR SHALL BE APPROVED BY THE ON-SITE OWNER / ARCHITECT.
5. 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.
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8. 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 REPLACED.
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|----------|--------------------------|------|----------------|--------------|
|----------|--------------------------|------|----------------|--------------|

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3. ALL AGGREGATES SHALL CONFORM TO ASTM C33. MAXIMUM AGGREGATE SIZES:
 - a. FOOTINGS: 1-1/2"
 - b. ALL OTHER WORK: 3/4"
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.

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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.

SOILS:

1. 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 REPORT").

FILL:

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Duracrete

Cedar WoodCast