24SF WALL BASE

NOTE: BEARING CONDITIONS SHALL BE OBSERVED BY THE SITE GEOTECHNICAL ENGINEER. BASE DIMENSIONS MAY BE INCREASED TO ADDRESS DEFICIENT SOIL BEARING CONDITIONS.

225mm MIN.

PLACE FIRST COURSE LEVEL TO PROPER LINE & GRADE

35mm COMPACTED ROCK OR LEAN CONCRETE

*FOR WALL HEIGHTS OF 1.8m OR LESS, BASE THICKNESS MAY BE REDUCED TO 150mm.

1.5m

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www.stonestrong.com

PROJECT
TYPICAL DETAILS
STONE STRONG SYSTEMS

DATE: 2/10/16 FILE: 01_24sf.Base
PLACE FIRST COURSE LEVEL TO PROPER LINE & GRADE

35mm COMPACTED ROCK OR LEAN CONCRETE

225mm

1.5m

NOTE: BEARING CONDITIONS SHALL BE OBSERVED BY THE SITE GEOTECHNICAL ENGINEER. BASE DIMENSIONS MAY BE INCREASED TO ADDRESS DEFICIENT SOIL BEARING CONDITIONS.

*FOR WALL HEIGHTS OF 1.8m OR LESS, BASE THICKNESS MAY BE REDUCED TO 150mm.

6SF WALL BASE
NOT TO SCALE

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225mm

PLACE FIRST COURSE LEVEL TO PROPER LINE & GRADE

35mm COMPACTED ROCK OR LEAN CONCRETE

1.17m

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6-28 WALL BASE

NOT TO SCALE

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PLACE FIRST COURSE LEVEL TO PROPER LINE & GRADE

35mm COMPACTED ROCK OR LEAN CONCRETE

225mm

2.6m

*225mm MIN.

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*FOR WALL HEIGHTS OF 1.8m OR LESS, BASE THICKNESS MAY BE REDUCED TO 150mm.

24–86 WALL BASE

NOT TO SCALE

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PLACE FIRST COURSE LEVEL TO PROPER LINE & GRADE

225mm

35mm COMPACTED ROCK OR LEAN CONCRETE

2m

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*FOR WALL HEIGHTS OF 1.8m OR LESS, BASE THICKNESS MAY BE REDUCED TO 150mm.

24-62 WALL BASE
NOT TO SCALE

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PLACE FIRST COURSE LEVEL TO PROPER LINE & GRADE

MASS EXTENDER

225mm

35mm COMPACTED ROCK OR LEAN CONCRETE

1.8m

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*FOR WALL HEIGHTS OF 1.8m OR LESS, BASE THICKNESS MAY BE REDUCED TO 150mm.

24SF w/MASS EXTENDER WALL BASE
NOT TO SCALE

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PROJECT
TYPICAL DETAILS
STONE STRONG SYSTEMS

DATE: 2/10/16
FILE: 06_24sf.Base.MassExtender
6SF WALL BASE STEP

NOT TO SCALE

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TOP OF WALL STEPS

NOT TO SCALE

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TOP OF WALL STEPS

NOT TO SCALE
NOTE:
MINIMUM RADIUS OCCURS AT LOWEST COURSE.
RADIUS INCREASES 102mm PER COURSE ABOVE,
AS SHOWN ON TABLE.

MINIMUM CONCAVE RADIUS—24SF UNITS
NOT TO SCALE

<table>
<thead>
<tr>
<th>Wall Height (m)</th>
<th>Total # of Courses</th>
<th>Reqd. Radius at Top Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.83</td>
<td>2</td>
<td>14.12m</td>
</tr>
<tr>
<td>2.74</td>
<td>3</td>
<td>14.22m</td>
</tr>
<tr>
<td>3.66</td>
<td>4</td>
<td>14.33m</td>
</tr>
<tr>
<td>4.57</td>
<td>5</td>
<td>14.43m</td>
</tr>
<tr>
<td>5.49</td>
<td>6</td>
<td>14.53m</td>
</tr>
<tr>
<td>6.40</td>
<td>7</td>
<td>14.63m</td>
</tr>
<tr>
<td>7.32</td>
<td>8</td>
<td>14.73m</td>
</tr>
</tbody>
</table>
NOTE:
MINIMUM RADIUS OCCURS AT TOP COURSE.
REQUIRED RADIUS INCREASES 102mm PER COURSE BELOW, AS SHOWN ON TABLE.

MINIMUM_CONVEX_RADIUS—24SF_UNITS

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NOTE:
MINIMUM RADIUS OCCURS AT LOWEST COURSE.
RADIUS INCREASES 51mm PER COURSE
ABOVE, AS SHOWN ON TABLE.

Minimum Concave Radius

<table>
<thead>
<tr>
<th>Wall Height (m)</th>
<th>Total # of Courses</th>
<th>Reqd. Radius at First Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.91</td>
<td>2</td>
<td>4.17m</td>
</tr>
<tr>
<td>1.37</td>
<td>3</td>
<td>4.22m</td>
</tr>
<tr>
<td>1.83</td>
<td>4</td>
<td>4.27m</td>
</tr>
<tr>
<td>2.29</td>
<td>5</td>
<td>4.32m</td>
</tr>
<tr>
<td>2.74</td>
<td>6</td>
<td>4.37m</td>
</tr>
<tr>
<td>3.20</td>
<td>7</td>
<td>4.42m</td>
</tr>
<tr>
<td>3.66</td>
<td>8</td>
<td>4.47m</td>
</tr>
</tbody>
</table>

Minimum Concave Radius—6SF Units

NOT TO SCALE

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NOTE:
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REQUIRED RADIUS INCREASES 51mm PER COURSE BELOW, AS SHOWN ON TABLE.

MINIMUM CONVEX RADIUS—6SF UNITS
NOT TO SCALE

<table>
<thead>
<tr>
<th>Wall Height (m)</th>
<th>Total # of Courses</th>
<th>Reqd. Radius at First Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.91</td>
<td>2</td>
<td>4.93m</td>
</tr>
<tr>
<td>1.37</td>
<td>3</td>
<td>4.98m</td>
</tr>
<tr>
<td>1.83</td>
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<td>2.29</td>
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<td>2.74</td>
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<td>5.13m</td>
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<tr>
<td>3.20</td>
<td>7</td>
<td>5.18m</td>
</tr>
<tr>
<td>3.66</td>
<td>8</td>
<td>5.23m</td>
</tr>
</tbody>
</table>
NOTE:
MINIMUM RADIUS OCCURS AT LOWEST COURSE.
RADIUS INCREASES 51mm PER COURSE
ABOVE, AS SHOWN ON TABLE.

MINIMUM CONCAVE RADIUS—6–28 UNITS
NOT TO SCALE

<table>
<thead>
<tr>
<th>Wall Height (m)</th>
<th>Total # of Courses</th>
<th>Reqd. Radius at Top Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.91</td>
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<td>4.16m</td>
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<tr>
<td>1.37</td>
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<tr>
<td>1.83</td>
<td>4</td>
<td>4.26m</td>
</tr>
<tr>
<td>2.29</td>
<td>5</td>
<td>4.31m</td>
</tr>
<tr>
<td>2.74</td>
<td>6</td>
<td>4.37m</td>
</tr>
<tr>
<td>3.20</td>
<td>7</td>
<td>4.42m</td>
</tr>
<tr>
<td>3.66</td>
<td>8</td>
<td>4.47m</td>
</tr>
</tbody>
</table>

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Minimum Convex Radius

<table>
<thead>
<tr>
<th>Wall Height (m)</th>
<th>Total # of Courses</th>
<th>Req'd. Radius at Top Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.91</td>
<td>2</td>
<td>4.89m</td>
</tr>
<tr>
<td>1.37</td>
<td>3</td>
<td>4.95m</td>
</tr>
<tr>
<td>1.83</td>
<td>4</td>
<td>5.00m</td>
</tr>
<tr>
<td>2.29</td>
<td>5</td>
<td>5.05m</td>
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<tr>
<td>2.74</td>
<td>6</td>
<td>5.10m</td>
</tr>
<tr>
<td>3.20</td>
<td>7</td>
<td>5.15m</td>
</tr>
<tr>
<td>3.66</td>
<td>8</td>
<td>5.20m</td>
</tr>
</tbody>
</table>

NOTE:
MINIMUM RADIUS OCCURS AT TOP COURSE.
REQUIRED RADIUS INCREASES 51mm PER COURSE BELOW, AS SHOWN ON TABLE.

MINIMUM CONVEX RADIUS—6–28 UNITS
NOT TO SCALE

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CHECK ON AVAILABILITY OF ALL UNITs w/ LOCAL PRODUCER/ DEALER. SOME UNITs MAY HAVE LIMITED AVAILABILITY.
TRANSITION 24SF TO 6SF

NOT TO SCALE
OVERLAP ADJACENT STRAPS AT ENDS AND STAKE TO HOLD IN PLACE.

INSTALL CONTINUOUS STRAP IN 'V' CONFIGURATION. WRAP AROUND CONNECTOR IN BACK OF FACE UNIT.

TYPICAL PARAWEB LAYOUT
NOT TO SCALE
**ParaWeb Installation Schematic**

**Plan View**

1. Cut Trench before laying ParaWeb over compacted backfill.
2. Loop ParaWeb over reinforcement bar in insert. Lay out ParaWeb straps and span over trench.
3. Stake ParaWeb in place.
4. Fill and compact backfill over rear of ParaWeb strap.
5. Fill and compact backfill over trench to tension ParaWeb.

**Cross Section**

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**Website:** www.stonestrong.com
INSTALL CONTINUOUS STRAP IN 'V' CONFIGURATION. WRAP AROUND CONNECTOR IN BACK OF FACE UNIT.

OVERLAP ADJACENT STRAPS AT ENDS AND STAKE TO HOLD IN PLACE.

PARAWEB LENGTH PER SCHEDULE

PARAWEB ON OUTSIDE CORNER

NOT TO SCALE

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OVERLAP ADJACENT STRAPS AT ENDS AND STAKE TO HOLD IN PLACE

INSTALL CONTINUOUS STRAP IN ‘V’ CONFIGURATION. WRAP AROUND CONNECTOR IN BACK OF FACE UNIT.

PARAWEB LENGTH PER SCHEDULE

PARAWEB_ON INSIDE CORNER

NOT TO SCALE

PARAWEB LENGTH PER SCHEDULE

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INSTALL CONTINUOUS STRAP IN "V" CONFIGURATION.
WRAP AROUND CONNECTOR IN BACK OF FACE UNIT.

OVERLAP ADJACENT STRAPS AT ENDS AND STAKE TO HOLD IN PLACE

PARAWEB ON LONG RADIUS CONVEX CURVE
NOT TO SCALE

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INSTALL CONTINUOUS STRAP IN 'V' CONFIGURATION, WRAP AROUND CONNECTOR IN BACK OF FACE UNIT.

NOTE:
USE THIS MODIFIED LAYOUT WHEN CURVE RADIUS IS LESS THAN PARAWEB LENGTH PLUS 10 FEET

PARAWEB ON SHORT RADIUS CONVEX CURVE
NOT TO SCALE
PARAWEB ON CONCAVE CURVE
NOT TO SCALE

INSTALL CONTINUOUS STRAP IN 'V' CONFIGURATION. WRAP AROUND CONNECTOR IN BACK OF FACE UNIT.

OVERLAP ADJACENT STRAPS AT ENDS AND STAKE TO HOLD IN PLACE.

PARAMETEB LENGTH PER SCHEDULE.
24SF UNIT w/ PARAWEB INSERTS

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6SF UNIT w/PARAWEB INSERT
6-28 UNIT w/PARAWEB INSERT
NOTE:
USE REINFORCED 24SF UNITS BELOW TOP 3.66m IN GEOGRID REINFORCED WALLS.
SEE FACE AND WEB MESH DETAILS FOR OPTIONAL REINFORCEMENT GRID.

STONE STRONG 24SF UNIT

EXTEND GEOGRID ONTO FACE FLANGE

ALIGN LONG AXIS (ROLL DIRECTION) OF STRUCTURAL GEOGRID PERPENDICULAR TO WALL FACE

24SF GEOGRID ORIENTATION
NOT TO SCALE

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EXTEND GEOGRID ONTO FACE FLANGE

STONE STRONG 6SF UNIT

ALIGN LONG AXIS (ROLL DIRECTION) OF STRUCTURAL GEOGRID PERPENDICULAR TO WALL FACE

6SF GEOGRID ORIENTATION

NOT TO SCALE

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STONE STRONG SYSTEMS
www.stonestrong.com

DATE: 6/29/18 FILE: 30_6sf.GGridOrient
NOTE:
USE REINFORCED 24SF UNITS BELOW TOP 3.66m IN GEOGRID REINFORCED WALLS.
SEE FACE AND WEB MESH DETAILS FOR OPTIONAL REINFORCEMENT GRID.

MINIMUM 75mm OF SOIL FILL REQUIRED BETWEEN OVERLAPPING LAYERS OF GEOGRIDS FOR PROPER ANCHORAGE.

TRIM GEOGRID AT FACE WHERE NECESSARY

FRONT FACE OF WALL

24SF GEOGRID PLACEMENT ON CURVES
NOT TO SCALE

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MINIMUM 75mm OF SOIL FILL REQUIRED BETWEEN OVERLAPPING LAYERS OF GEOGRIDS FOR PROPER ANCHORAGE.

6SF GEOGRID PLACEMENT ON CURVES
NOT TO SCALE

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FENCE SLEEVE
NOT TO SCALE

200mmx0.91m SLEEVE FOR POST; COVER TOP.
INSTALL SLEEVES WITH WALL. COORDINATE
LOCATIONS WITH FENCE INSTALLER.
TYPICAL FENCE CONFIGURATION
NOT TO SCALE

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OPTIONAL FENCE CONFIGURATION

NOT TO SCALE

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WALL w/GUARD RAIL

NOT TO SCALE

GALVANIZED STEEL
GUARD RAIL

GUARD RAIL POST
& STANDOFF

CURB w/PAVEMENT

SLEEVE (OPTIONAL)
COORDINATE LOCATIONS
w/GUARD RAIL INSTALLER
NOTE:
NO REPRESENTATION IS MADE ON STRENGTH OR CAPACITY OF PARAPET FOR BARRIER USE. USER SHOULD DETERMINE CAPABILITY OR SUITABILITY FOR INTENDED APPLICATION.

DUAL FACE PARAPET WALL
NOT TO SCALE

CHECK ON AVAILABILITY OF ALL UNITS w/ LOCAL PRODUCER/DEALER. SOME UNITS MAY HAVE LIMITED AVAILABILITY.

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NOTE:
NO REPRESENTATION IS MADE ON STRENGTH OR CAPACITY OF PARAPET FOR BARRIER USE. USER SHOULD DETERMINE CAPABILITY OR SUITABILITY FOR INTENDED APPLICATION.

STONE STRONG DUAL FACE CAP UNIT
STACK UNITS IN RUNNING BOND
STONE STRONG DUAL FACE UNIT

STONE STRONG DUAL FACE FLAT CAP UNIT
STACK UNITS IN RUNNING BOND
STONE STRONG DUAL FACE UNIT

DUAL FACE PARAPET
WALL w/CAP
NOT TO SCALE

DUAL FACE PARAPET
WALL w/FLAT CAP
NOT TO SCALE

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NOTE:
NO REPRESENTATION IS MADE ON STRENGTH OR CAPACITY FOR BARRIER APPLICATION. USER SHOULD DETERMINE CAPABILITY OR SUITABILITY FOR INTENDED APPLICATION.

REINFORCE & GROUT VOIDS TO INCREASE PARAPET STRENGTH PER SPECIFIC APPLICATION

OPTIONAL PARAPET REINFORCEMENT
NOT TO SCALE

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DUAL FACE PARAPET WALL STEP
NOT TO SCALE

NOTE:
USER SHOULD DETERMINE CAPABILITY
OR SUITABILITY OF PARAPET FOR BARRIER
LOADING.

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CHECK ON AVAILABILITY OF ALL UNITS w/ LOCAL PRODUCER/DEALER. SOME UNITS MAY HAVE LIMITED AVAILABILITY.
TOP OF WALL w/SIDEWALK

NOT TO SCALE

NOTE:
FOR LEVEL GRADES ONLY. CONSIDER STEP TRANSITIONS FOR SLOPING GRADES.
NOTE:
CAP UNIT IS OPTIONAL. TOP OF WALL IS FITTED w/TOP UNIT IN MOST APPLICATIONS.

STONE STRONG DUAL FACE CAP UNIT

TOP OF WALL TREATMENT
AT 18” WALL STEPS
NOT TO SCALE

*NOTE:
ADJUST GRADE SPLIT BASED UPON SPECIFIC PROJECT REQUIREMENTS. 150MM ABOVE/310mm BELOW SPLIT IS ALSO COMMON. TURN END UNIT TO RETURN 1.2m IF THERE ARE NO NEARBY OBSTACLES.

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OPTIONAL GEOTEXTILE FILTER
UNDER IMPERVIOUS FILL/TOPSOIL

STONE STRONG
24SF RETAINING
WALL TOP UNIT

STONE STRONG
24SF RETAINING
WALL UNIT

UNIT FILL

OPTIONAL GEOTEXTILE FILTER (SEE INSET)

300mm MIN. OVERLAP TOP & BOTTOM

NON-WOVEN GEOTEXTILE FABRIC
600mm MIN.

OPTIONAL GEOTEXTILE FILTER
NOT TO SCALE

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NOTE:
ON CONVEX CURVES, PROVIDE REINFORCEMENT TO ATTACH EXTENSION DUE TO REDUCED OPENING WIDTH BETWEEN TAILS.

PLACE 25MPa CONCRETE IN VOIDS BETWEEN UNITS.
FILL BEHIND UNITS TO MIN. HORIZONTAL DIMENSIONS SHOWN ON WALL LAYOUT PLAN AND ELEVATION.

UNIQUE FILL IN CORES OF UNITS

UNIT FILL IN CORES OF UNITS

CONCRETE TAIL EXTENSION

FOR MINIMUM WIDTH, SEE WALL ELEVATION

MINIMUM WIDTH

WALL BASE (SEE DETAIL)

24SF CONCRETE TAIL EXTENSION DETAIL (CAST-IN-PLACE)

NOT TO SCALE

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NOTE:
ON CONVEX CURVES, PROVIDE REINFORCEMENT TO ATTACH EXTENSION DUE TO REDUCED OPENING WIDTH BETWEEN TAILS.

PLACE 25MPa CONCRETE IN VOIDS BETWEEN UNITS. FILL BEHIND UNITS TO MIN. HORIZONTAL DIMENSIONS SHOWN ON WALL LAYOUT PLAN AND ELEVATION.

MINIMUM WIDTH OF TAIL EXTENSION AS SHOWN ON LAYOUT/ELEVATION

UNIT FILL IN CORES OF UNITS

FOR MINIMUM WIDTH, SEE WALL ELEVATION

GRANULAR WALL BASE (SEE DETAIL)

6SF CONCRETE TAIL EXTENSION DETAIL (CAST-IN-PLACE)
NOT TO SCALE

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NOTE:
USE REBAR–TIED TAIL EXTENSIONS
ON CONVEX CURVES OR TO ELIMINATE
CONCRETE IN VOID BETWEEN UNITS

24 SF REBAR–TIRED CONCRETE
TAIL EXTENSION (CAST–IN–PLACE)
NOT TO SCALE

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NOTE:
USE REBAR-TIED TAIL EXTENSIONS
ON CONVEX CURVES OR TO ELIMINATE
CONCRETE IN VOID BETWEEN UNITS

24-86 REBAR-TIED CONCRETE
TAIL EXTENSION (CAST-IN-PLACE)
NOT TO SCALE

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NOTE: USE REINFORCED CONNECTION ON CONVEX CURVES WHERE GAP BETWEEN TAILS IS REDUCED.

REINFORCED CONNECTION FOR 24 SF UNITS

FOR MINIMUM WIDTH, SEE WALL ELEVATION

MINIMUM WIDTH

WIDTH OF TAIL EXTENSION + 600mm

#5 BENT BARS (4 BARS REQ'D. PER JOINT BETWEEN ABUTTING 24 SF UNITS)

#5 BENT BAR PAIRS

25 MPa CONCRETE TAIL EXTENSION

PLAN VIEW

SECTION

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NOTE: USE REINFORCED CONNECTION ON CONVEX CURVES WHERE GAP BETWEEN TAILS IS REDUCED.

REINFORCED CONNECTION FOR 6SF UNITS

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