

1 12" DIAMETER STRAIGHT SHAFT PIER BEARING IN CLAY
SW1

GENERAL NOTES

CODES AND DESIGN SPECIFICATION:

1. Building Code: 2009 Edition of the International Building Code.
2. Structural Concrete: 2011 Building Codes requirements for Reinforced Concrete (ACI 318-11)

DESIGN LIVE LOAD:

Wind:
Basic Wind Speed - 90MPH (3 Second Gust)
Exposure B

PIER DESIGN NOTES:

1. The reinforced concrete foundation has been designed in accordance with ACI 318-11 and Analyzed using standard engineering practices.
2. Geotechnical Investigation has been provided by:

Firm: TERRACON CONSULTANTS
Report No. 95155152
Date: 01-19-2016

Pier Design:
Piers Bearing In: CLAY

Allowable end bearing pressure: 5,000 psf - clay soils

Skin friction value: N/A
Pier Diameter: 12"
Minimum Length of pier below existing grade: 9'-0"

Pier holes and construction shall be inspected by Falkofske Engineering, Inc. to insure piers are bearing in proper stratum. Remove all loose material prior to placing concrete. For any given pier, excavation, placement of steel, and concreting should be completed within the same work day.

CONCRETE MIX DESIGN-USE CLASS A mix PER NCTCOG SPEC. 5.0 SACK CEMENT:

1. All concrete for piers, footings, plasters, grade beams, mow strips, and slabs shall have a minimum compressive strength $f_c = 3,000$ psi at 28 days. Provide 5 inch slump. Adding water at site is not permitted.
2. The concrete mix designs shall be proportioned to minimize the adverse effects of climate at the time of year the concrete is placed. Use of workability admixtures and air entrainment is permitted and must be noted on mix designs.
3. Use of calcium chloride admixtures is not permitted.

CONCRETE REINFORCEMENT:

1. All concrete reinforcing steel, #4 and larger, shall be new billet steel conforming to ASTM A-615, Grade 60 with $F_y = 60$ ksi.
2. Stirrups, ties, and other reinforcement #3 in size may be Grade 40 with $F_y = 40$ ksi.

CONCRETE CONSTRUCTION:

1. Insure proper vibration of concrete around all reinforcement.
2. Contractor note: Before proceeding with any work or ordering of materials, the contractor and/or subcontractor shall verify all measurements, location of building components, and their interrelationship at the building site for their correctness.

MASONRY STONE:

1. Face stone to be selected by owner/contractor.
2. All mortar mixes shall utilize Portland cement and not masonry cement.
3. Where noted, horizontal masonry stone reinforcement in the walls shall be 9 gauge, 1 3/4" wide, galvanized ladder style reinforcement with a minimum yield stress $F_y = 60$ ksi, conforming to ASTM 153-82 (hot dip galvanized).

BRICK COLUMN, AND BRICK SCREEN WALL:

1. All brick shall conform to ASTM C216 or C62, grade SW with a minimum compressive strength of 3,000psi.
2. All mortar shall conform to ASTM C270, Type S with the following proportions:
1 part Type 1 Portland Cement conforming to ASTM C150,
1/2 part Masons Lime, Type S, Conforming to ASTM C207,
4 1/2 parts loose, damp sand conforming to ASTM C144.
3. All horizontal brick reinforcement in the screen walls shall be 9 gauge, 1 3/4" wide, galvanized ladder style reinforcement with a minimum yield stress $F_y = 60$ ksi, conforming to ASTM 153-82 (hot dip galvanized).
4. All horizontal brick reinforcement in the brick columns shall be 9 gauge, galvanized wire with a minimum yield stress $F_y = 60$ ksi, conforming to ASTM 153-82 (hot dip galvanized), and fabricated as shown on plans.
5. Type S mortar to be used to fill column and wall cavities.
6. All brick courses shall have full head and bed joints and the mortar shall be wet enough to effect a good bond with the brick. Re-tempering the mortar for workability is allowed.
7. Raked joints are not allowed, the joints shall be concave tooled with a minimum cover on the horizontal joint reinforcement of 5/8".
8. All brick wall construction shall be in accordance with the "Recommended Practice for Engineering Brick Masonry" by the Brick Institute of America.

INSPECTIONS:

1. Inspections are to be as required by the local Building Department.
2. Falkofske Engineering shall be called to conduct a pre-concrete pour review of the placement of the reinforcement and size and location of all piers and footings, and for construction review of the brick wall and columns.

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DATE	BY
04-06-17	TJW
04-06-17	ETH
04-06-17	TJW

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TX Reg. Engineering Firm F-4038
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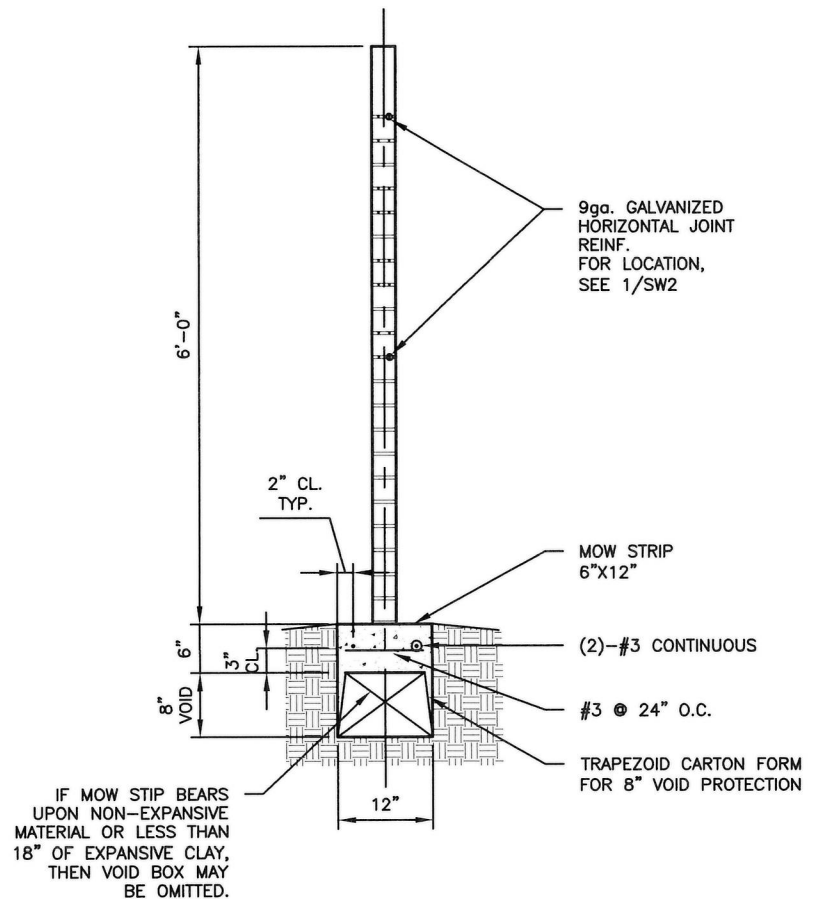


SCREEN WALL - GENERAL NOTES
SERVICE KING COLLISION REPAIR CENTER
SOUTH OF I.H. 30 AND EAST OF JOHN KING BLVD.
ROCKWALL, TEXAS
NORTH TEXAS HARDSCAPE, INC.
NORTH RICHLAND HILLS, TEXAS 76182

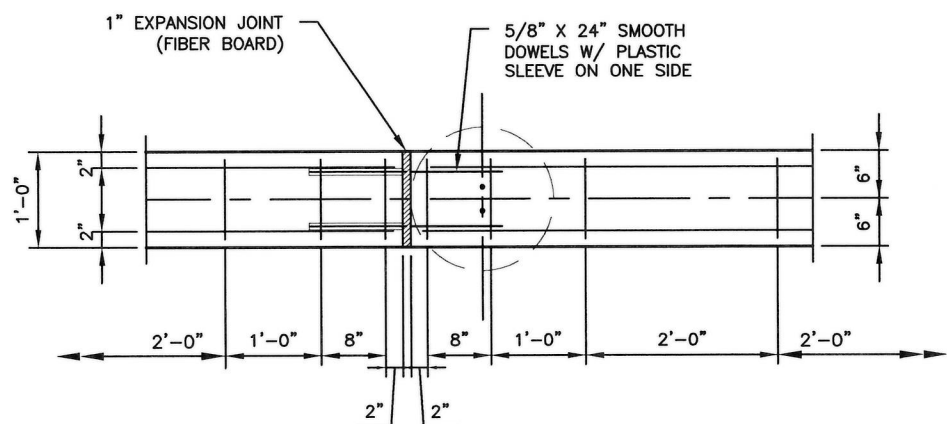
JOB NO. 207.17

SW1

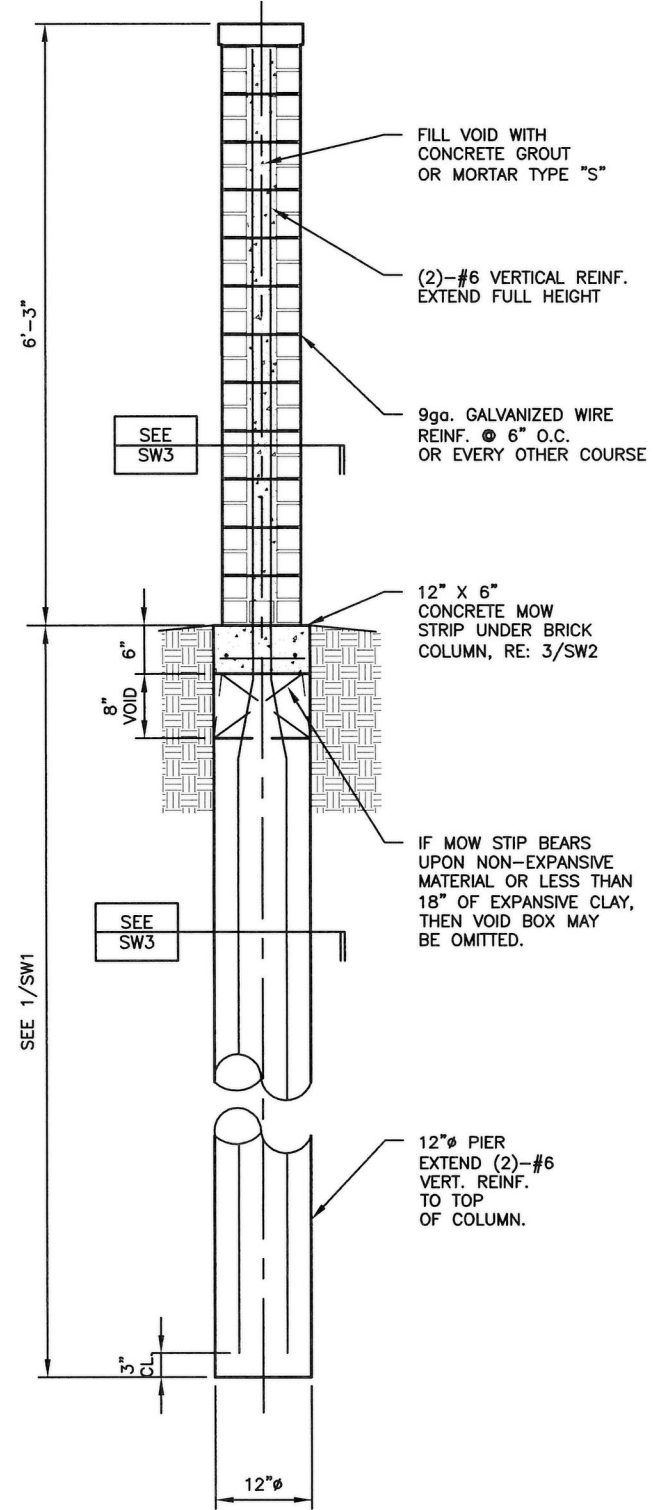




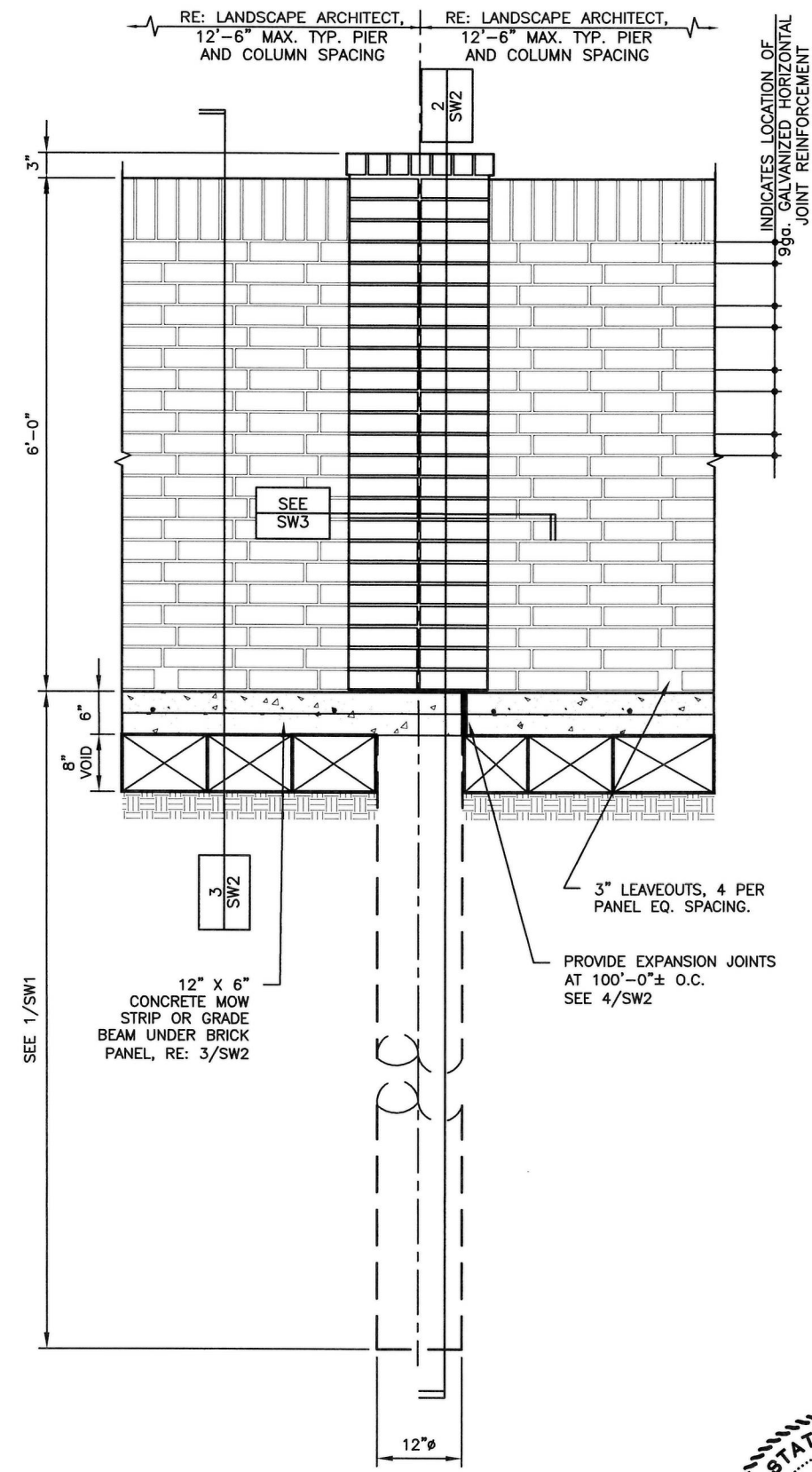
3 SW2 BRICK THIN WALL CROSS SECTION



4 SW2 MOW STRIP WITH EXPANSION JOINT PLAN JOINT TO JOINT @ 100'-0"±



2 SW2 THIN WALL BRICK COLUMN CROSS SECTION



1 SW2 BRICK COLUMN AND THINWALL ELEVATION

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DES. DES. DRN. CHK. SCALE: 1/2" = 1'-0"

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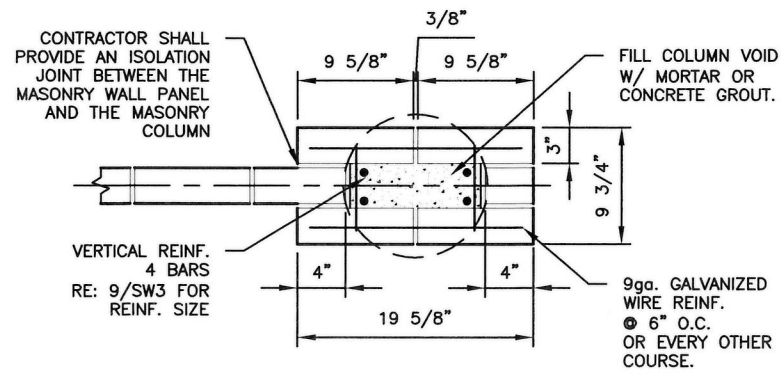
6'-0" BRICK THIN WALL SERVICE KING COLLISION REPAIR CENTER SOUTH OF I.H. 30 AND EAST OF JOHN KING BLVD. ROCKWALL, TEXAS

NORTH TEXAS HARDSCAPE, INC.
NORTH RICHLAND HILLS, TEXAS 76182

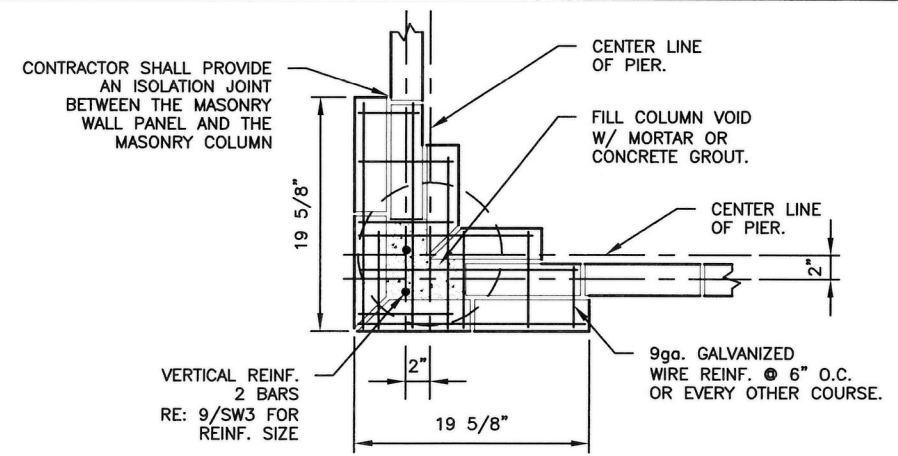
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SW2

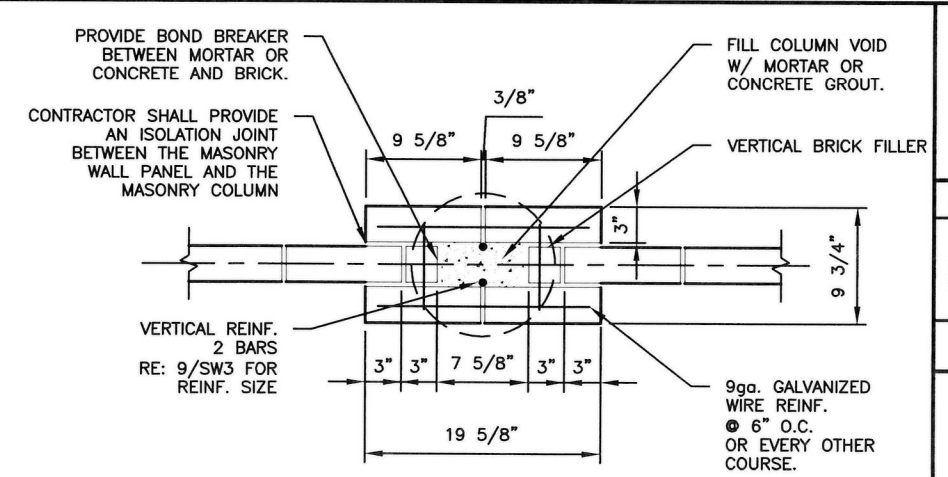




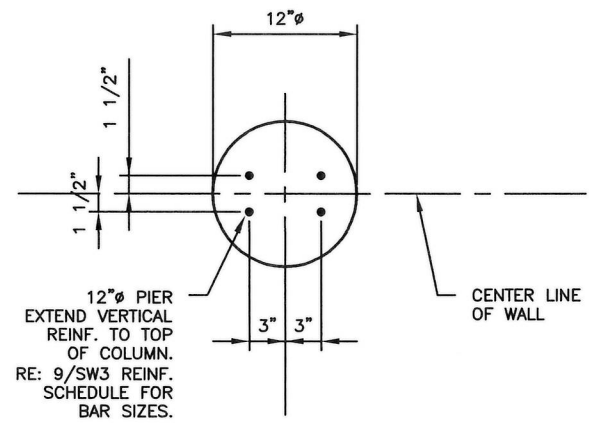
3 BRICK END COLUMN DETAIL
SW3 RE: 6/SW3 FOR PIER REINFORCEMENT LOCATION



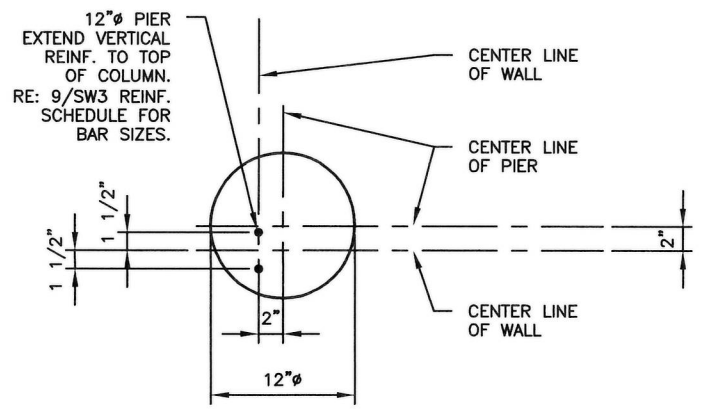
2 BRICK 90° COLUMN DETAIL
SW3 RE: 5/SW3 FOR PIER REINFORCEMENT LOCATION



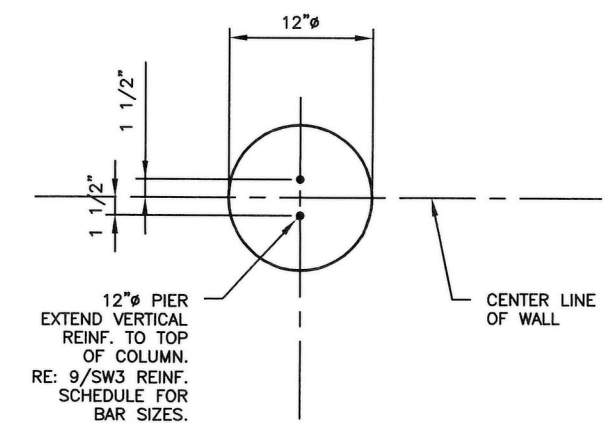
1 BRICK COLUMN DETAIL
SW3 RE: 4/SW3 FOR PIER REINFORCEMENT LOCATION



6 PIER BELOW BRICK END COLUMN SECTION
SW3



5 PIER BELOW BRICK 90° COLUMN SECTION
SW3

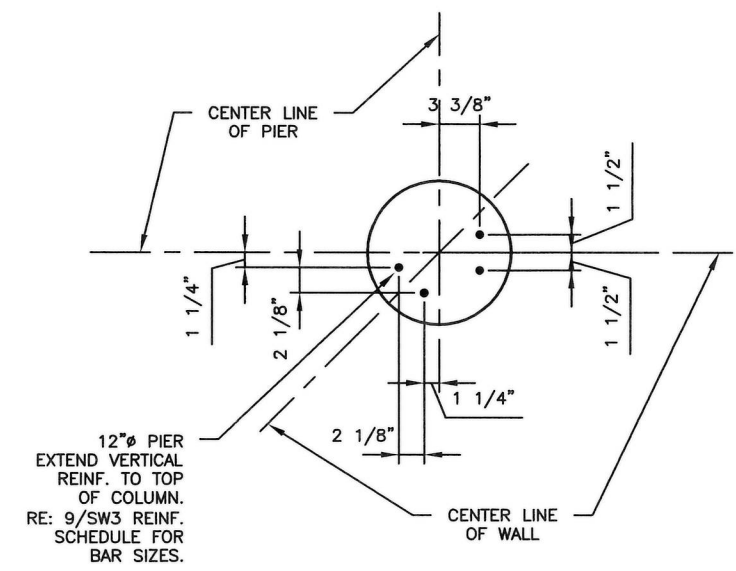


4 PIER BELOW BRICK COLUMN SECTION
SW3

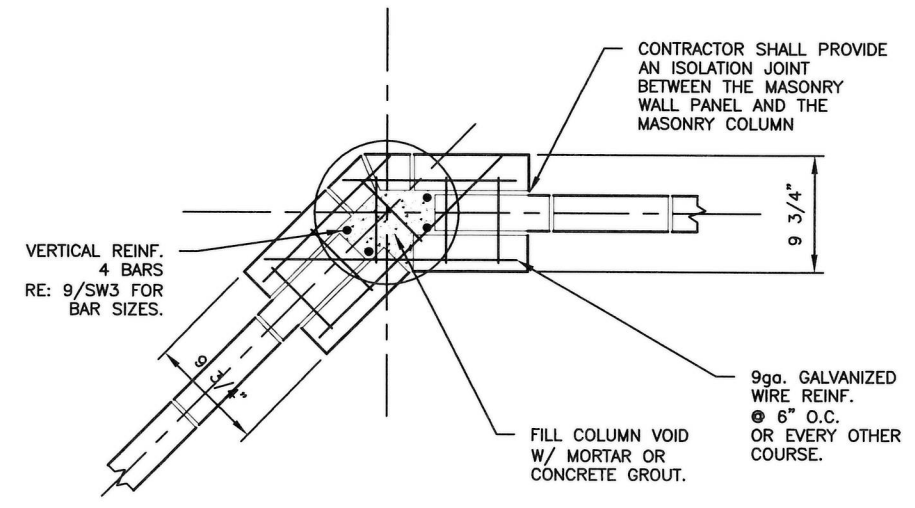
COLUMN SPACING, FT	SCREEN HEIGHT, FT				
	6	7	8	9	10
10'-0"	2-#5	2-#6	2-#6	2-#7	N.A.
12'-0"	2-#6	2-#6	2-#7	N.A.	N.A.

CONTRACTOR OPTION

9 PIER REINFORCEMENT SCHEDULE
SW3



8 PIER BELOW BRICK 45° COLUMN SECTION
SW3



7 BRICK 45° COLUMN DETAIL
SW3 RE: 8/SW3 FOR PIER REINFORCEMENT LOCATION

The use of these plans and specifications shall be verified by the contractor. Any changes or modifications shall be approved in writing by the engineer. Any work not shown or specified shall be in accordance with the latest editions of the building codes and specifications in effect at the time of construction.

BY	TJW
DATE	04-06-17
DES.	TJW
DRN.	ETH
CHK.	TJW
	04-06-17

SCALE: 3/4" = 1'-0"

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THIN WALL BRICK COLUMN & PIER DETAILS
SERVICE KING COLLISION REPAIR CENTER
SOUTH OF I.H. 30 AND EAST OF JOHN KING BLVD.
ROCKWALL, TEXAS

NORTH TEXAS HARDSCAPE, INC.
NORTH RICHLAND HILLS, TEXAS 76182

JOB NO. 207.17
SW3



The use of these plans and specifications shall be restricted to the project and location they were prepared for. Any use for other projects or locations is expressly limited to such use. The user shall be responsible for obtaining all necessary permits and approvals. The user shall be responsible for obtaining all necessary information concerning any applicable laws, rules, regulations, codes, ordinances, and orders. The user shall be responsible for obtaining all necessary information concerning any applicable laws, rules, regulations, codes, ordinances, and orders. The user shall be responsible for obtaining all necessary information concerning any applicable laws, rules, regulations, codes, ordinances, and orders.

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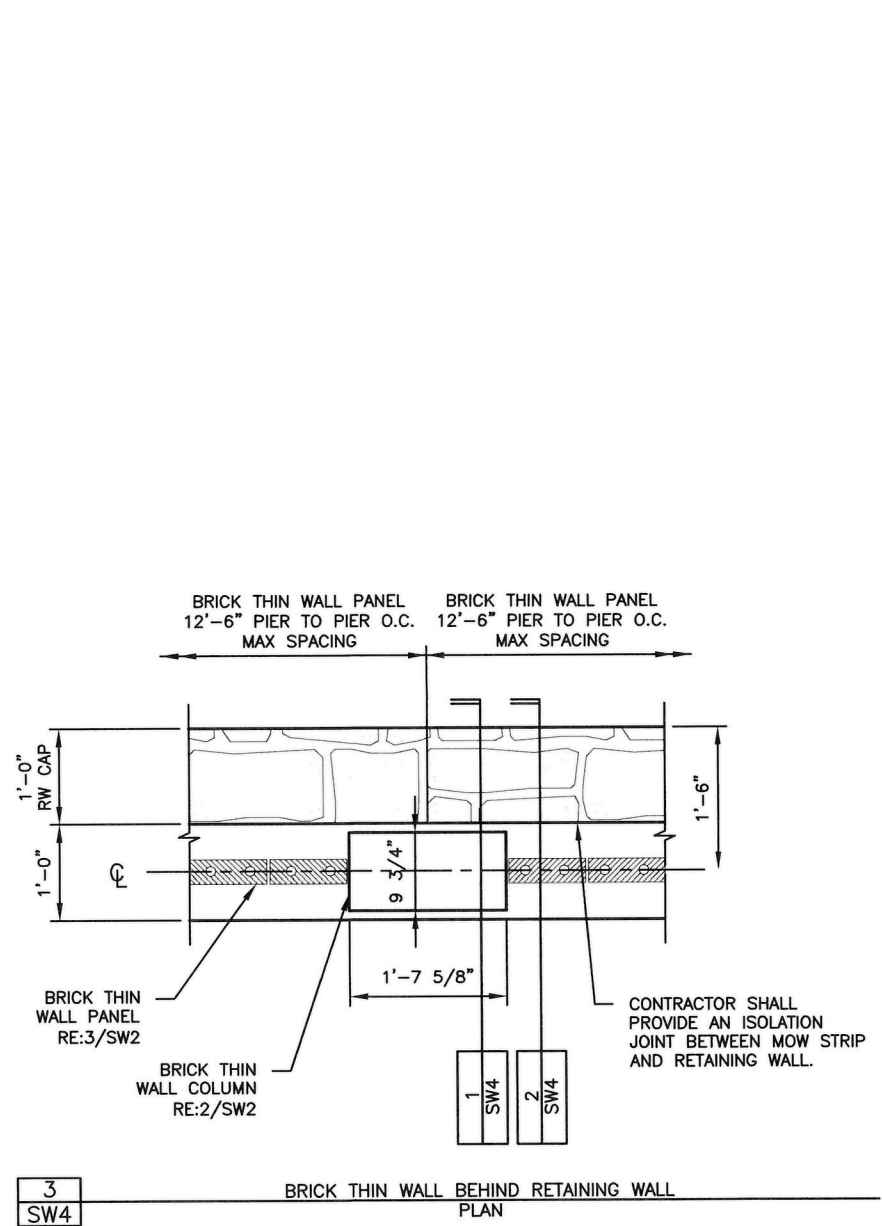


BRICK THIN WALL AND COLUMN BEHIND RETAINING WALL
 SERVICE KING COLLISION REPAIR CENTER
 SOUTH OF I.H. 30 AND EAST OF JOHN KING BLVD.
 ROCKWALL, TEXAS

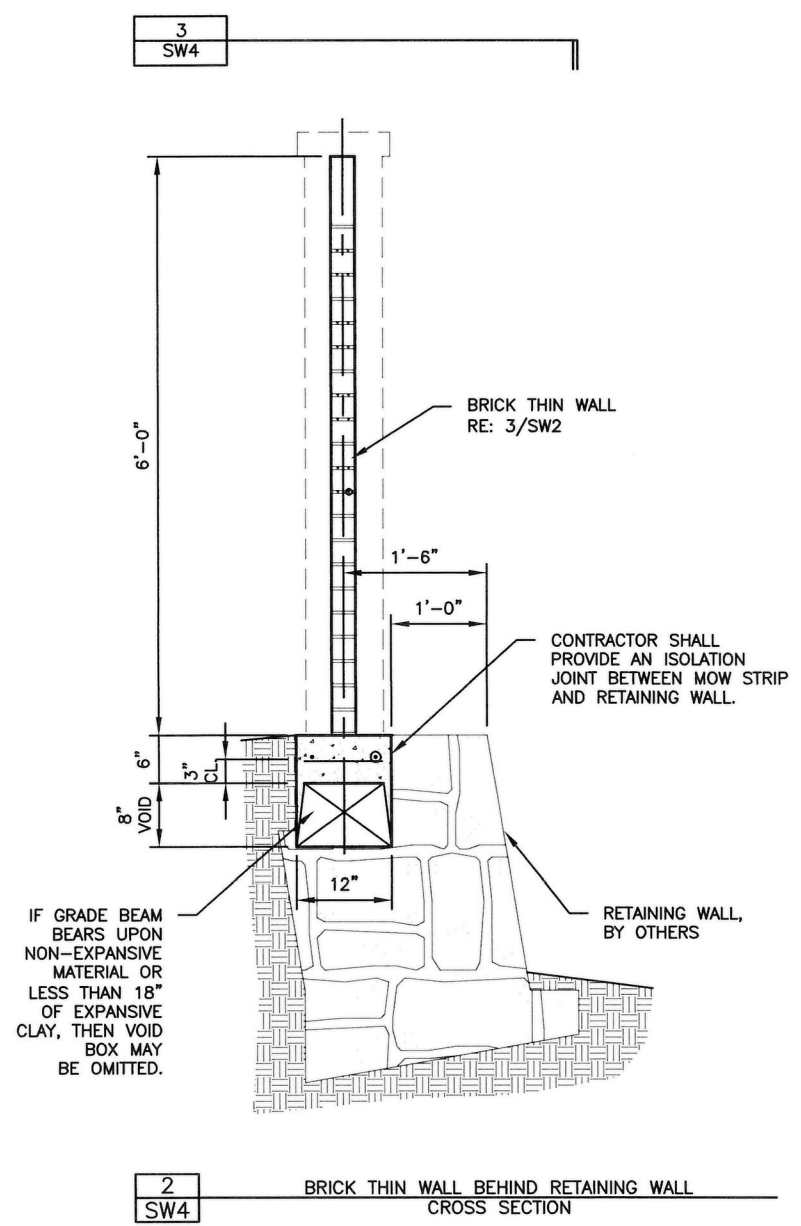
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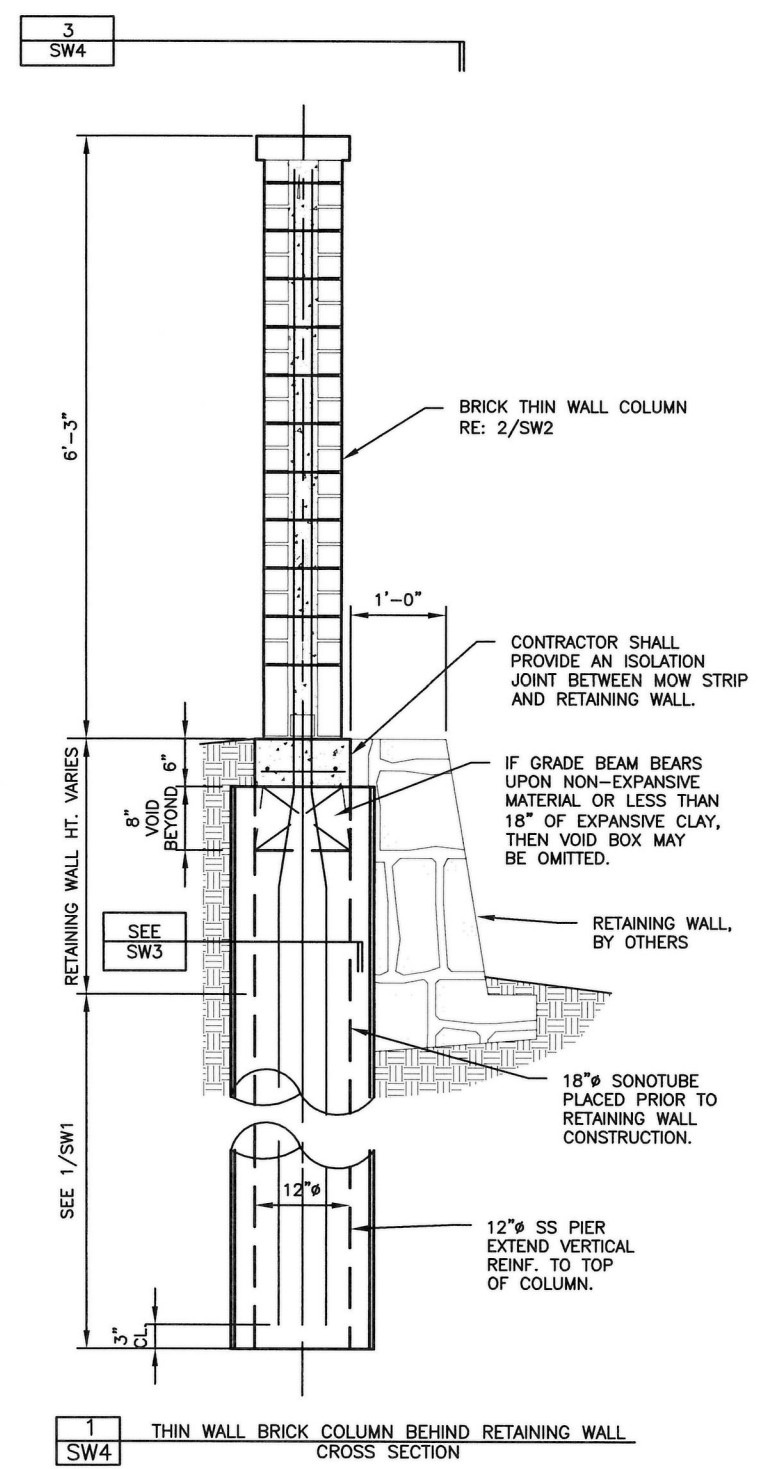
SW4



3 SW4
 BRICK THIN WALL BEHIND RETAINING WALL
 PLAN



2 SW4
 BRICK THIN WALL BEHIND RETAINING WALL
 CROSS SECTION



1 SW4
 THIN WALL BRICK COLUMN BEHIND RETAINING WALL
 CROSS SECTION