

STRUCTURAL GENERAL NOTES

GENERAL REQUIREMENTS:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER PROJECT DRAWINGS BY OTHER DISCIPLINES. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODES LISTED BELOW.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL COMPARE AND COORDINATE THE DRAWINGS OF ALL DISCIPLINES AND REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS TO THE ARCHITECT AND ENGINEER.
4. DETAILS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SEE DETAIL TITLES FOR APPLICABILITY OF A PARTICULAR DETAIL. TYPICAL DETAILS SHALL APPLY WHETHER OR NOT THEY ARE SPECIFICALLY KEYED AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.
5. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER SHALL GOVERN.
6. THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
7. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ANCHORED, EMBEDDED OR SUPPORTED ITEMS. NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES.

SPECIAL INSPECTIONS:

1. NO SPECIAL INSPECTION IS REQUIRED, VERIFY WITH CITY OF DENTON FOR SPECIAL INSPECTION REQUIREMENTS.

CONSTRUCTION RESPONSIBILITY:

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.
2. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. PERIODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE STRUCTURAL ENGINEER. THE SOLE PURPOSE OF THESE OBSERVATIONS IS TO REVIEW THE GENERAL CONFORMANCE OF THE CONSTRUCTION WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHOULD NOT BE CONSTRUED AS CONTINUOUS OR EXHAUSTIVE TO VERIFY THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

PRIMARY CODES AND SPECIFICATIONS:

1. GENERAL BUILDING CODE:
 - A. INTERNATIONAL BUILDING CODE, 2012
2. CONCRETE CODES:
 - A. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11).
 - B. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
 - C. LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE WITH ALL SUPPLEMENTS.
3. STRUCTURAL STEEL CODES:
 - A. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, (AISC 360-10).

DESIGN LOADS:

1. FLOOR LIVE LOADS:
 - A. UNIFORMLY DISTRIBUTED LIVE LOADS:
 - WALKWAYS..... 100 PSF
2. WIND LOADS:
 - A. LOADS BASED ON ASCE 7-10 WIND LOAD CRITERIA.
 - BASIC WIND SPEED, 3 SECOND GUST (ULTIMATE)..... 115 MPH
 - BUILDING CLASSIFICATION CATEGORY..... II
 - WIND EXPOSURE CATEGORY..... B
 - WIND TOPOGRAPHIC FACTOR, KZT..... 1.0

FOUNDATIONS:

1. ALL VEGETATION, TOPSOILS, ROOTS AND ORGANIC ZONES SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 2 FEET BEYOND THE EXTERIOR OF SIDEWALK LIMITS..
2. TO PROVIDE A BETTER SIDEWALK FOUNDATION, SLAB CONSTRUCTION SHALL BE SUPPORTED ON SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) TO A DEPTH OF AT LEAST 12 INCHES.

CAST-IN-PLACE CONCRETE:

1. THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:
 - ACI 318 (CODE) ACI 304 (PLACING)
 - ACI 306 (WINTER CONCRETING) ACI 315 (DETAILING)
 - ACI 305 (HOT WEATHER CONCRETING) ACI 347 (FORMWORK)
 - ACI 211.1 (MIX PROPORTIONING) ACI 301 (SPECIFICATIONS)
2. ALL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN), WITH MIXES DESIGNED TO MEET A MINIMUM OF 3000 PSI 28-DAY COMPRESSIVE STRENGTH UNLESS OTHERWISE NOTED.
3. A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE GRADATION AND WATER CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OR AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PRIOR TO CASTING ANY CONCRETE. MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING SHALL BE SPECIFICALLY DESIGNED FOR PUMPING.

REINFORCING STEEL:

1. REINFORCING STEEL: ASTM A 615, GRADE 60.
3. MINIMUM REINFORCING STEEL CLEAR COVER (U.N.O.):
 - A. CONCRETE CAST DIRECTLY AGAINST EARTH .. 3"
 - B. INTERIOR SLABS 1"
 - C. INTERIOR BEAMS 1-1/2" TO TIES
 - D. SLABS ON GRADE 1-1/2" FROM TOP
4. WHERE REINFORCING BARS ARE NOTED AS CONTINUOUS, THE FOLLOWING SHALL BE COMPLIED WITH:
 - A. THE TERMINATION OF ALL CONTINUOUS REINFORCING BAR RUNS SHALL BE A STANDARD HOOK UNLESS NOTED OTHERWISE.
 - B. SPLICES IN CONTINUOUS TOP BARS, IF REQUIRED, SHALL OCCUR OVER PARALLEL CMU WALLS OR AT THE CENTER OF THE OPENING SPAN.
 - C. SPLICES IN CONTINUOUS BOTTOM BARS, IF REQUIRED, SHALL OCCUR OVER CMU WALLS OR CENTERED OVER COLUMNS.
5. WHERE SPLICE LENGTHS ARE NOT SPECIFIED, USE 48 BAR DIAMETERS IN MASONRY AND 40 BAR DIAMETERS IN CAST CONCRETE.
6. REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED

STRUCTURAL STEEL:

1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
2. MATERIALS:
 - ROUND POSTS..... ASTM A 500 GRADE B (FY = 42 KSI)
 - GALVANIZED OR POWDER COATED
 - SQUARE POSTS..... ASTM A 500 GRADE B (FY = 46 KSI)
 - GALVANIZED OR POWDER COATED
 - RAILS..... ASTM A1011 OR ASTM 1083 (FY = 50 KSI)
 - GALVANIZED OR POWDER COATED
 - TENSION RODS..... ASTM A36
 - TENSION STRIPS..... ASTM A36
 - MACHINE BOLTS..... ASTM A307
3. TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE ERECTION PROCESS.
4. ALL STEEL MEMBERS AND ACCESSORIES SHALL GALVANIZED OR POWDER COATED, UNLESS OTHERWISE NOTED.
5. FIELD CONNECTIONS SHALL BE BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED MEMBERS WILL BE ALLOWED.

CHAIN LINK MESH AND ACCESSORIES:

1. CHAIN LINK FABRIC SHALL BE GALVANIZED AFTER WEAVING (GAW) OR VINYL COATED.
2. POST CAPS, BRACE BANDS AND RAIL ENDS SHALL GALVANIZED OR POWDER COATED.
3. TOP RAIL SLEEVES ARE ACCEPTABLE IF NEEDED.
4. TRUSS RODS, WIRES AND TIGHTENERS PER INDUSTRY STANDARDS PER SIZE SPECIFIED IN THESE DRAWINGS.

North Lakes Park
Dog Park

DENTON ■ T E X A S

Owner/Developer:

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Consultants:



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PO Box 816151, Dallas,
TX, 75381
Phone: (214) 837-6062

STRUCTURAL
NOTES

Revisions

No.	Date	Items
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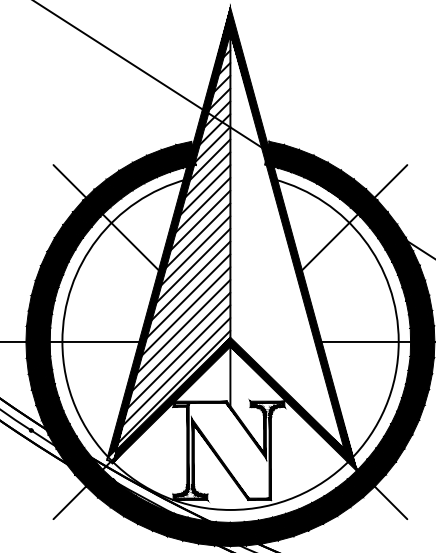
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Sheet Title

SS-00

Sheet No.





Scale: 1/16" = 1' - 0"



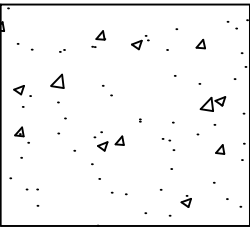
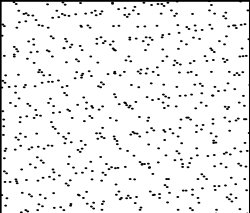
Layout Plan Dog Run Two

Distance between pathway and fence to remain a constant 11' where indicated.

SEE PAGES S-07
AND S-08 FOR
FENCE DETAILS

Area One

Legend

-  Control Points
-  Black Vinyl Coated Chain Link Fence
- LP Line Post
-  CONCRETE
-  DECOMPOSED GRANITE

This side of the fence follows the exact shape of the sidewalk in front of it. Distance between sidewalk and fence shall remain a constant 40' as indicated.

North Lakes Park Dog Park

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AREA 1 FENCE LAYOUT PLAN

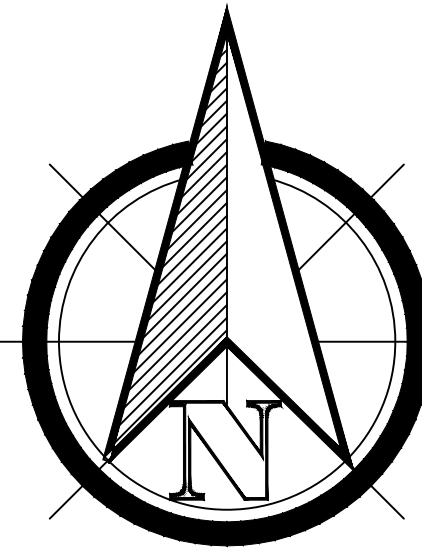
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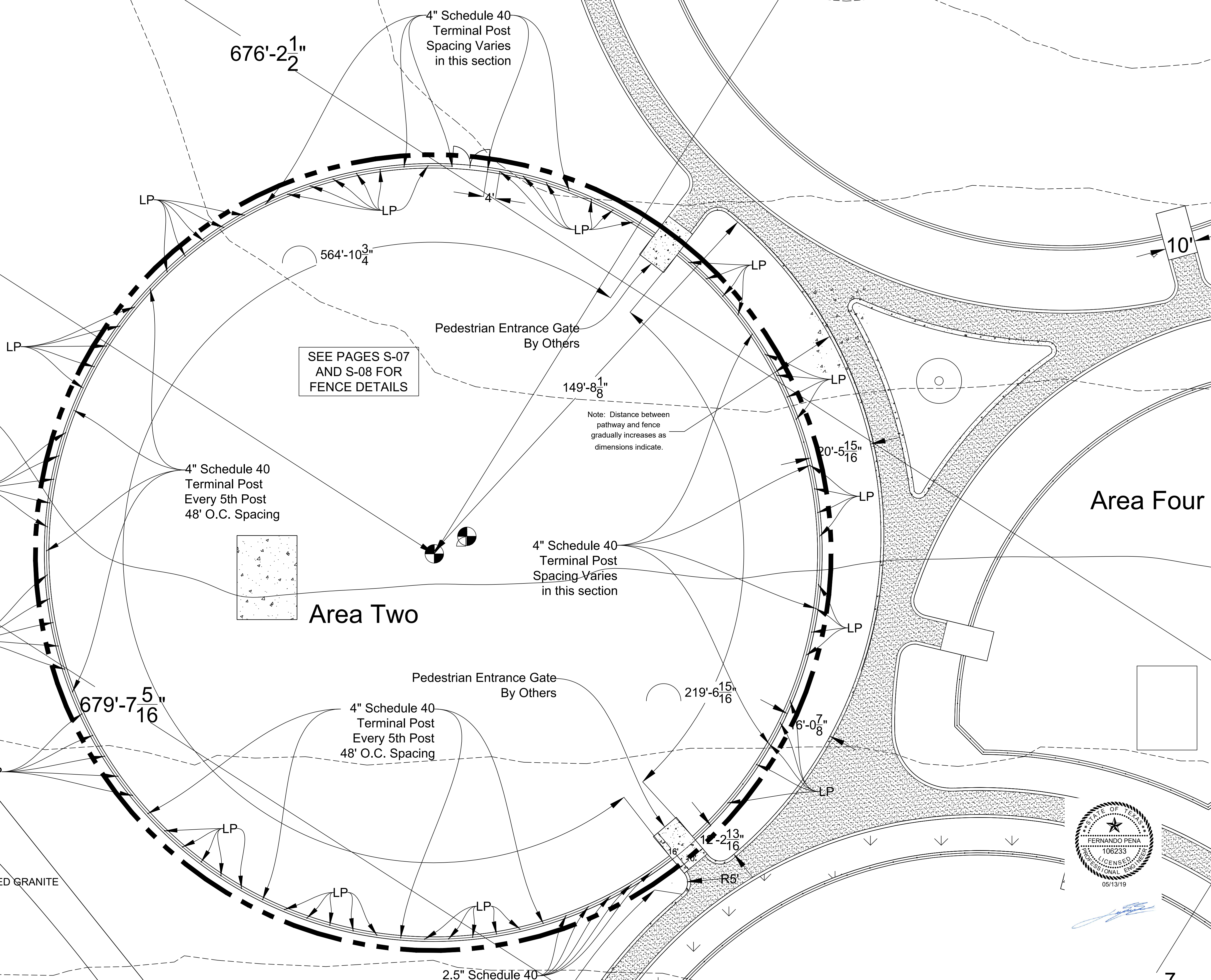


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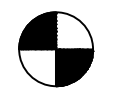
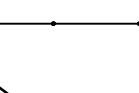
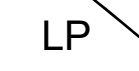
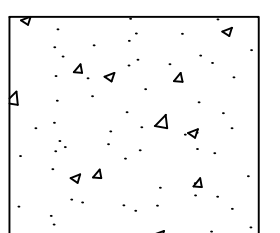
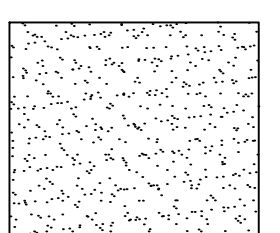
399'-11¹¹/₁₆"

676'-2¹/₂"

495'-2⁹/₁₆"



Legend

-  Control Points
-  Black Vinyl Coated Chain Link Fence
-  LP Line Post
-  CONCRETE
-  DECOMPOSED GRANITE

**North Lakes Park
Dog Park**

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**AREA 2 FENCE
LAYOUT PLAN**

Revisions

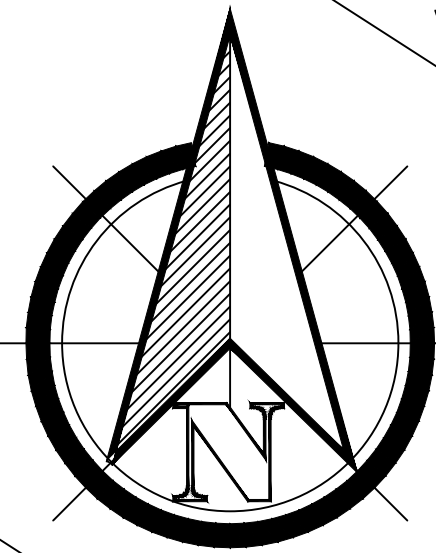
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Scale: 1/16" = 1' - 0"

This side of the fence follows the exact shape of the sidewalk in front of it. Distance between sidewalk and fence shall remain a constant.

518'-1³/₈"

446'-1⁹/₁₆"

138'-4¹/₄"

171'-4⁷/₁₆"

39'-9⁹/₁₆"

126'-3¹/₁₆"

178'-0³/₁₆"

108'-1¹/₄"

1'-6" Typ.

1'-6" Typ.

SEE PAGES S-07 AND S-08 FOR FENCE DETAILS

R59'-4¹⁵/₁₆"

20' Typ.

R140'-3"

Area Three

4" Schedule 40 Terminal Post Spacing Varies in this section

Legend

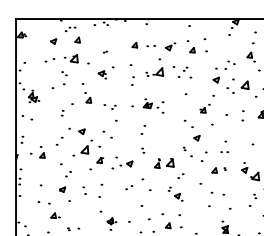


Control Points

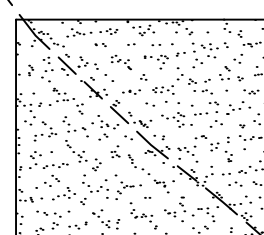
Black Vinyl Coated Chain Link Fence

LP

Line Post



CONCRETE



DECOMPOSED GRANITE

305'-9"

20' Typ.

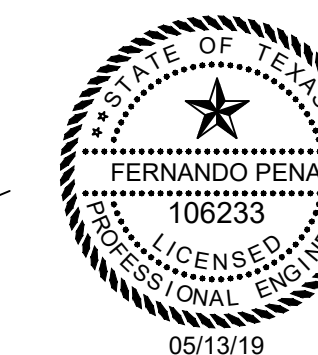
35'-0¹/₈"

This side of the fence follows the exact shape of the sidewalk in front of it. Distance between sidewalk and fence shall remain a constant 40' as indicated.

53'-10⁵/₈"

52'-4¹/₂"

12'



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AREA 3 FENCE
LAYOUT PLAN

Revisions

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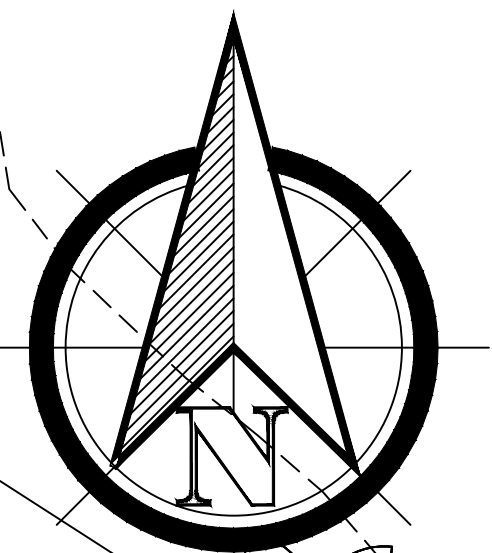
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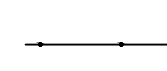
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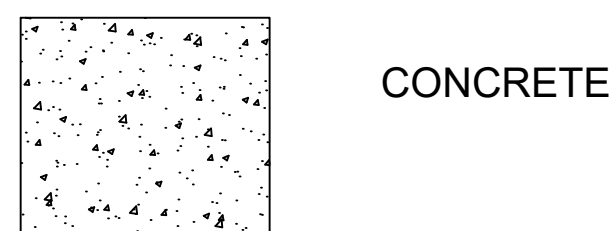


Scale: 1/16" = 1'-0"

Legend

-  Control Points
-  Black Vinyl Coated Chain Link Fence

LP Line Post



CONCRETE



DECOMPOSED GRANITE

SEE PAGES S-07
AND S-08 FOR
FENCE DETAILS

Area Four

Scope of Work

This side of the fence follows the exact shape of the sidewalk in front of it. Distance between sidewalk and fence shall remain a constant 40' as indicated.

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AREA 4 FENCE LAYOUT PLAN

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WALKWAY (N) LAYOUT PLAN

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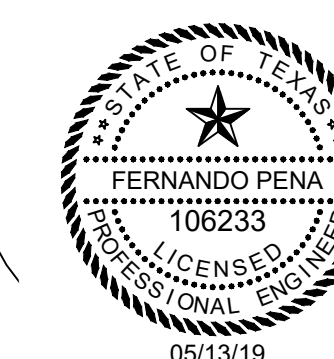
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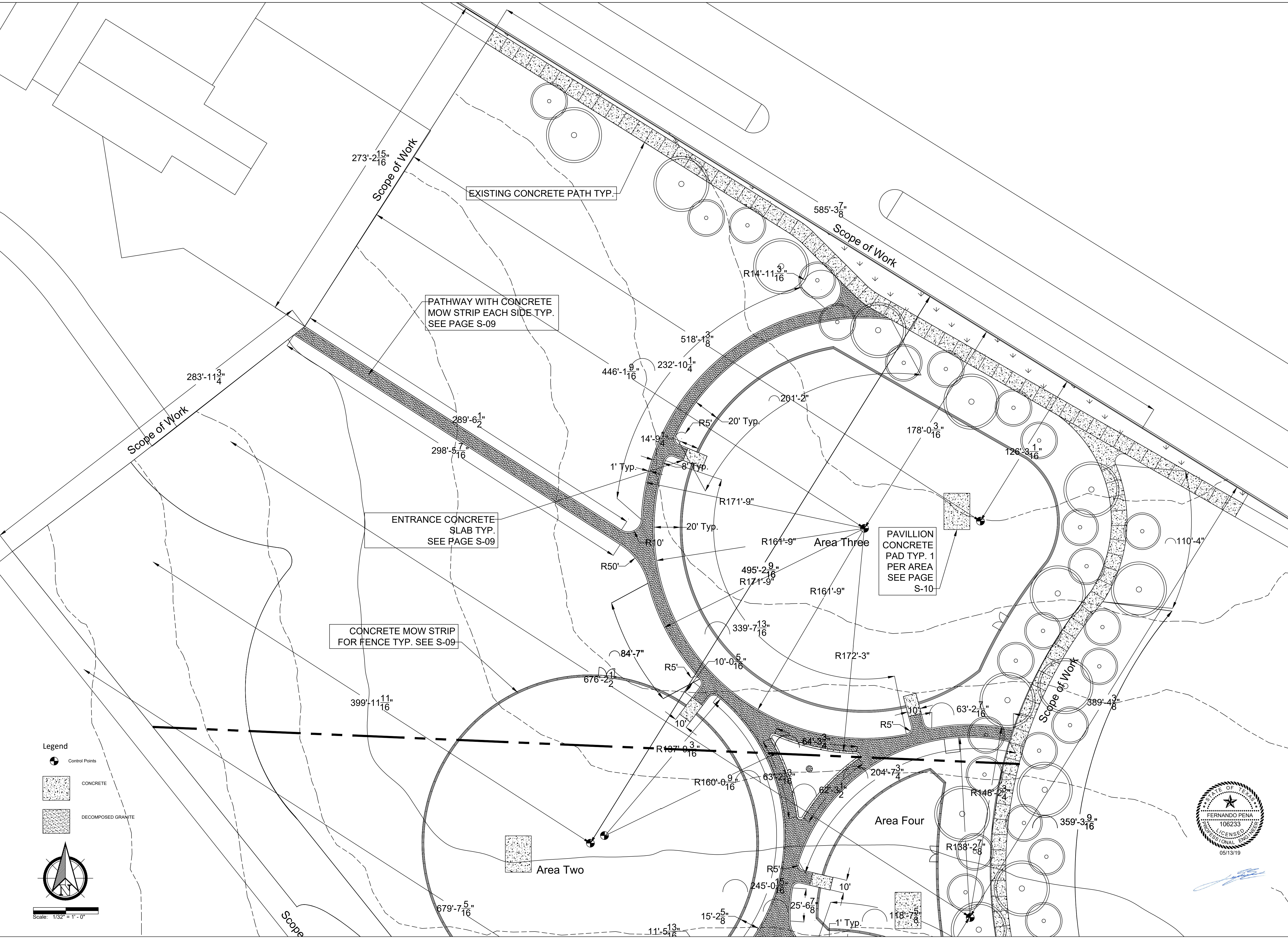
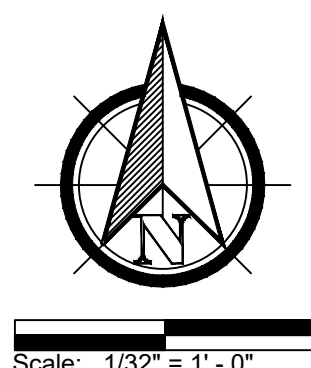
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- Legend**
- Control Points
 - CONCRETE
 - DECOMPOSED GRANITE



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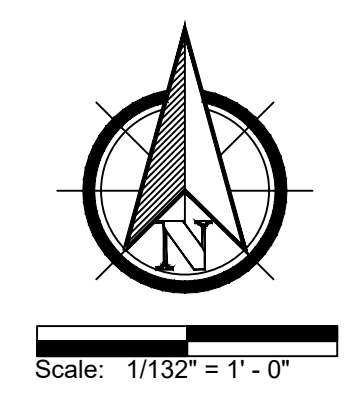
WALKWAY (S)
LAYOUT PLAN

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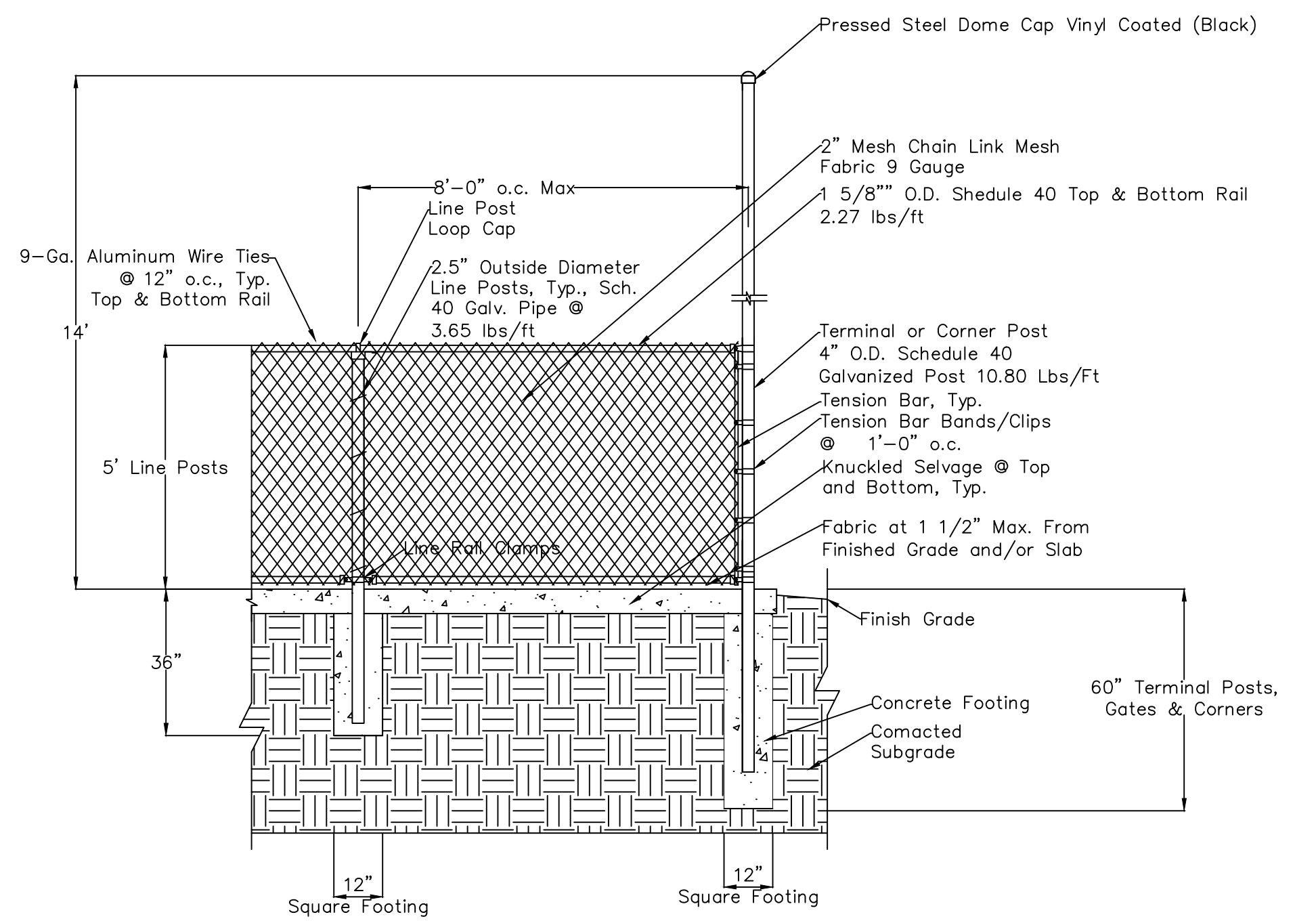
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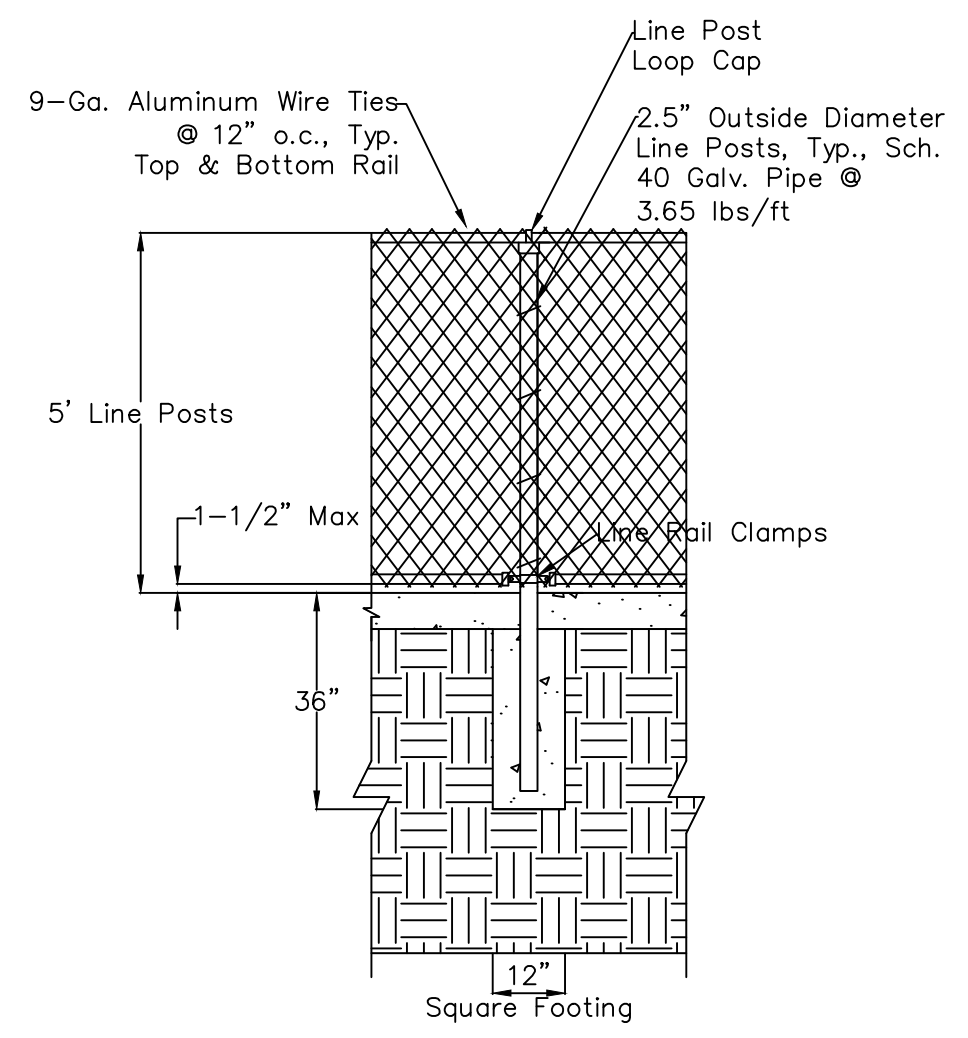
Legend

- Control Points
- CONCRETE
- DECOMPOSED GRANITE

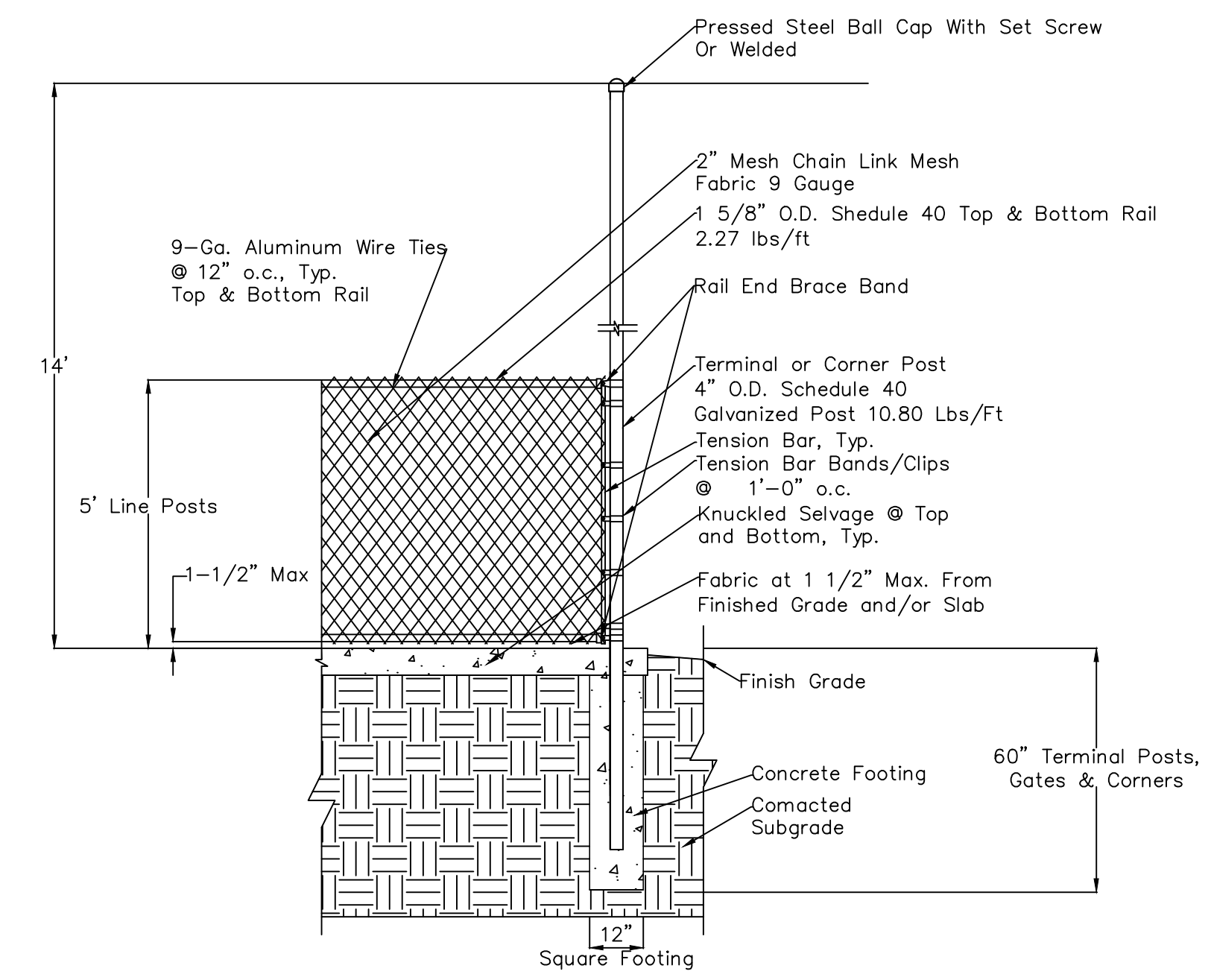




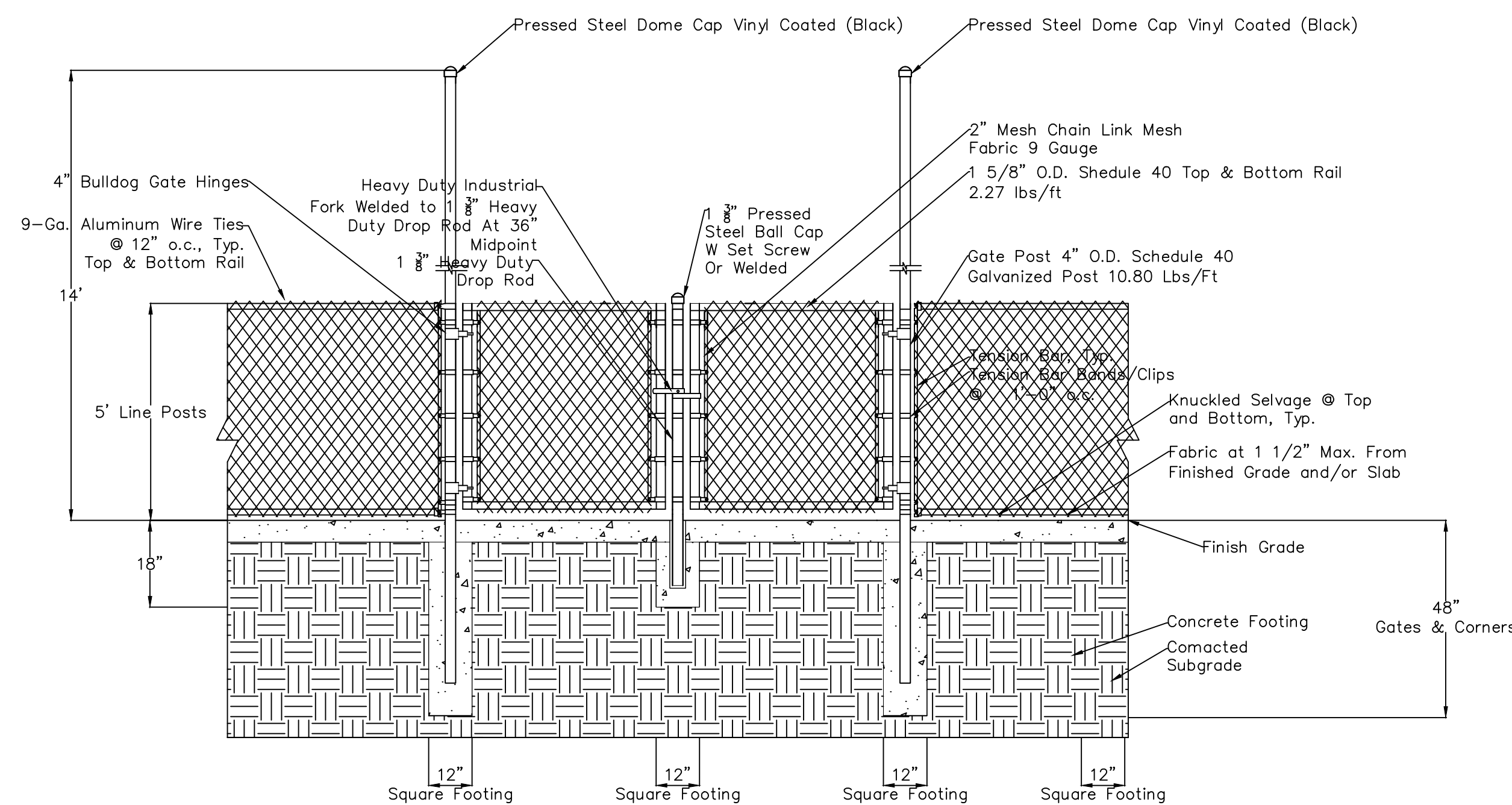
01 Chain Link Fence - Corner Section Detail (Typ)
 5 - Foot Chain Link Fence - Black Vinyl Coated
 Scale 1/4" = 1'-0"



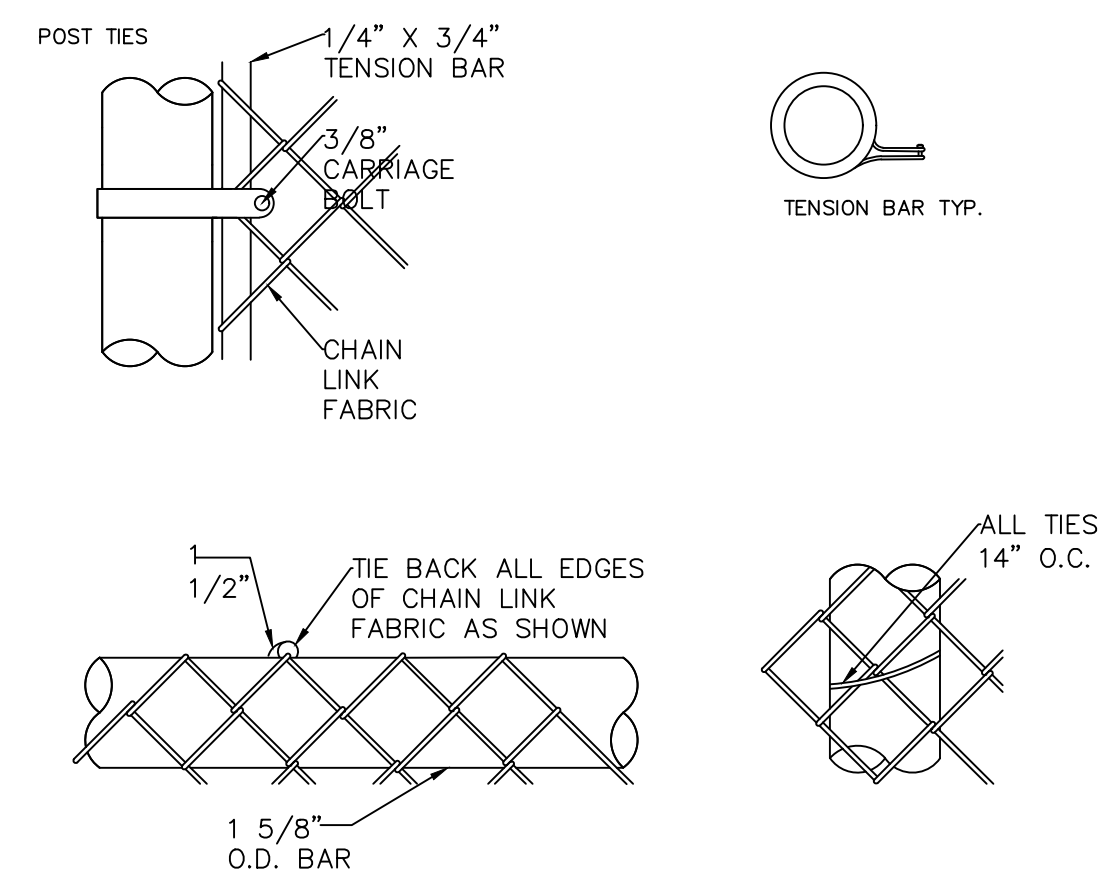
02 Chain Link Fence - Line Post Detail (Typ)
 5 - Foot Chain Link Fence - Black Vinyl Coated
 Scale 1/4" = 1'-0"



03 Chain Link Fence - Corner / End Post Detail (Typ)
 5 - Foot Chain Link Fence - Black Vinyl Coated
 Scale 1/4" = 1'-0"

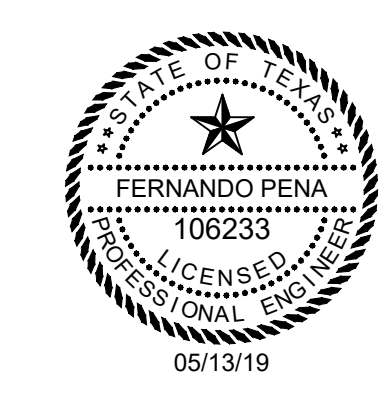


04 Typical 12' Double Chain Link Gate (Maintenance Gate)
 5 - Foot Chain Link Fence - Black Vinyl Coated
 Scale 1/4" = 1'-0"



05 FENCE DETAILS
 Hardware - Black Vinyl Coated
 NTS

NOTE: All pedestrian gate entrance areas will be built by others. All materials to be approved by Parks Staff before construction begins.



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 DENTON ■ TEXAS

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Fence Details

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Fence Details

Fence Schedule

Line Post	2.5"	schedule 40 Black Vinyl Coated	1 per line post	260 ea
Terminal Post	4"	schedule 40 Black Vinyl Coated	2 per fence section	61 ea
Gate Posts	4"	schedule 40 Black Vinyl Coated	2 per maintenance gate	8 ea
Chain Link Mesh	9ga	2" Mesh, black vinyl coated	lf	2730lf
Steel Dome Caps	1 3/8"	pressed steel Black Vinyl Coated	1 per maintance gate	4 ea
Steel Dome Caps	4"	pressed steel Black Vinyl Coated	1 per terminal post	28 ea
Steel Dome Caps	4"	pressed steel Black Vinyl Coated	1 per gate post	8 ea
Loop Caps	2.5"	Black Vinyl Coated	1 per line post	307 ea
Wire Ties	9ga	Steel Black Vinyl Coated	2 per lf of mesh 4 per line post	5460ea 1228 ea
Tension Bars		Black Vinyl Coated	2 per fence section 2 per gate	23 ea 16 ea
Tension Bar Bands/Clips		Black Vinyl Coated	5 per tension bar	195 ea
Drop Bars	1 3/8"	heavy duty Black Vinyl Coated	1 per maintenance gate	8 ea
Drop Rod Guides		Black Vinyl Coated	2 per drop rod	16 ea
Drop Rod Stopper		Black Vinyl Coated	1 per drop rod	8 ea
Fork Latch		Black Vinyl Coated	1 per maintenance gate	4 ea
Bulldog Hinge		Black Vinyl Coated	2 per maintenance gate	16 ea
Concrete			6cft per corner or gate post 3cft per line post 1cft per drop rod	17 cy 29 cy .15 cy
Maintenance Gates	6'	two per maintenance gate for 12' opening Black Vinyl Coated	2 per maintenance gate	8 ea
Line Rail Clamps	2.5" x 2"	Black Vinyl Coated		260 ea
Brace Bands	4"	Black Vinyl Coated		122 ea
Rail Ends	2"	Black Vinyl Coated		150 ea
Square Brace Bands	3"	Black Vinyl Coated		34 ea
Square Tension Bands	3"	Black Vinyl Coated		90 ea
Top and Bottom Rail	1 5/8"	Black Vinyl Coated		5460 lf
Rail Couplings	2"	Black Vinyl Coated		273 ea

NOTE: ALL QUANTITIES ARE APPROXIMATE, IT IS RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE PROJECT TOTALS OF ALL COMPONENTS.

North Lakes Park
Dog Park

DENTON ■ TEXAS

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Consultants:
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ENGINEERING CONSULTING, LLC.
Firm TBPE # 14437
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Phone: (214) 837-6062

Fence Details

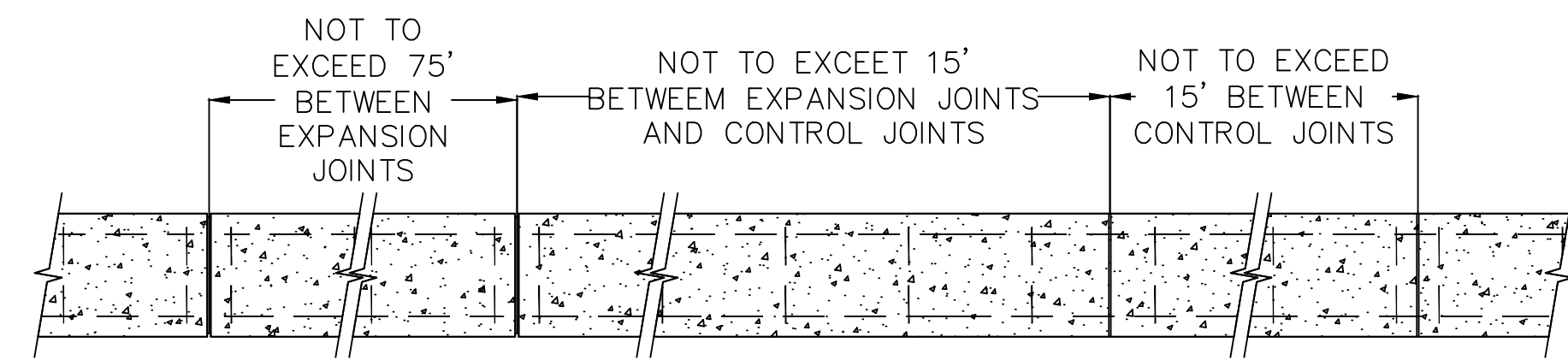
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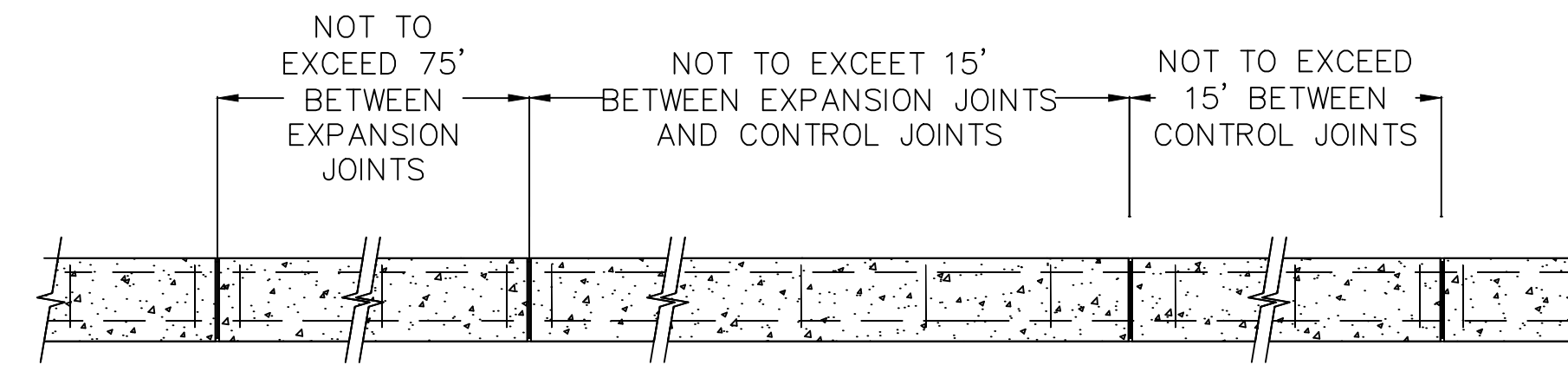
Drawn: Glenn McLain, MLA
Appr.: _____
Scale: _____
Date: 04/10/2019
Project No.: _____



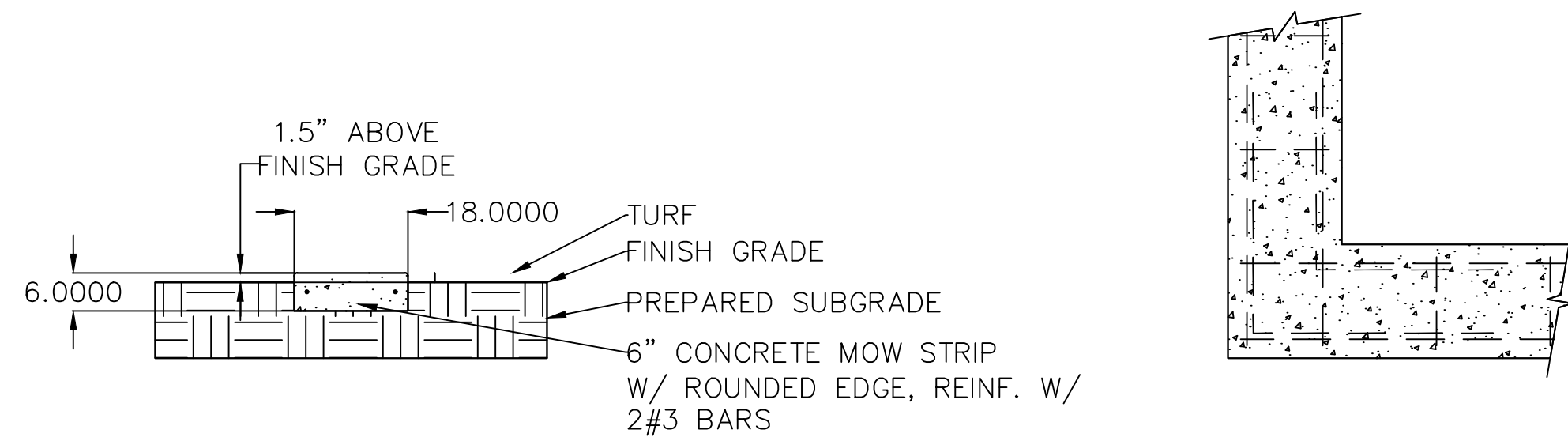
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① PLAN SECTION



① PLAN SECTION

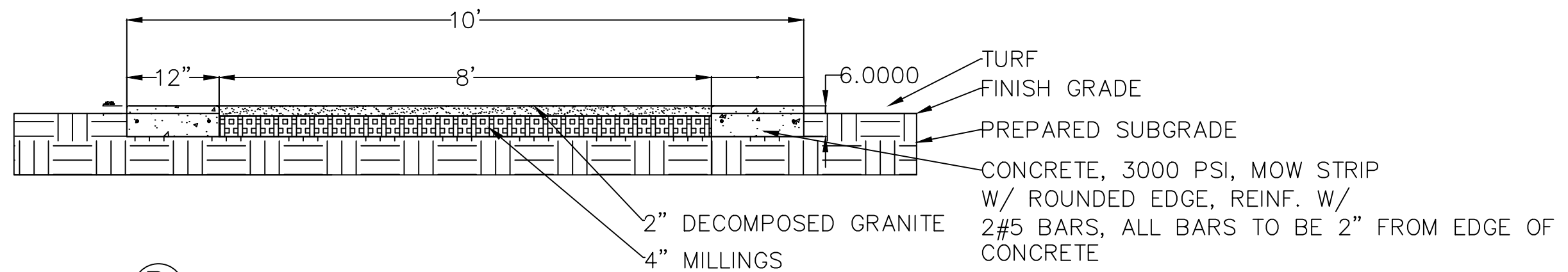


① SECTION ELEVATION

① PLAN SECTION

01 CONCRETE MOW STRIP FOR FENCE (TYP.)

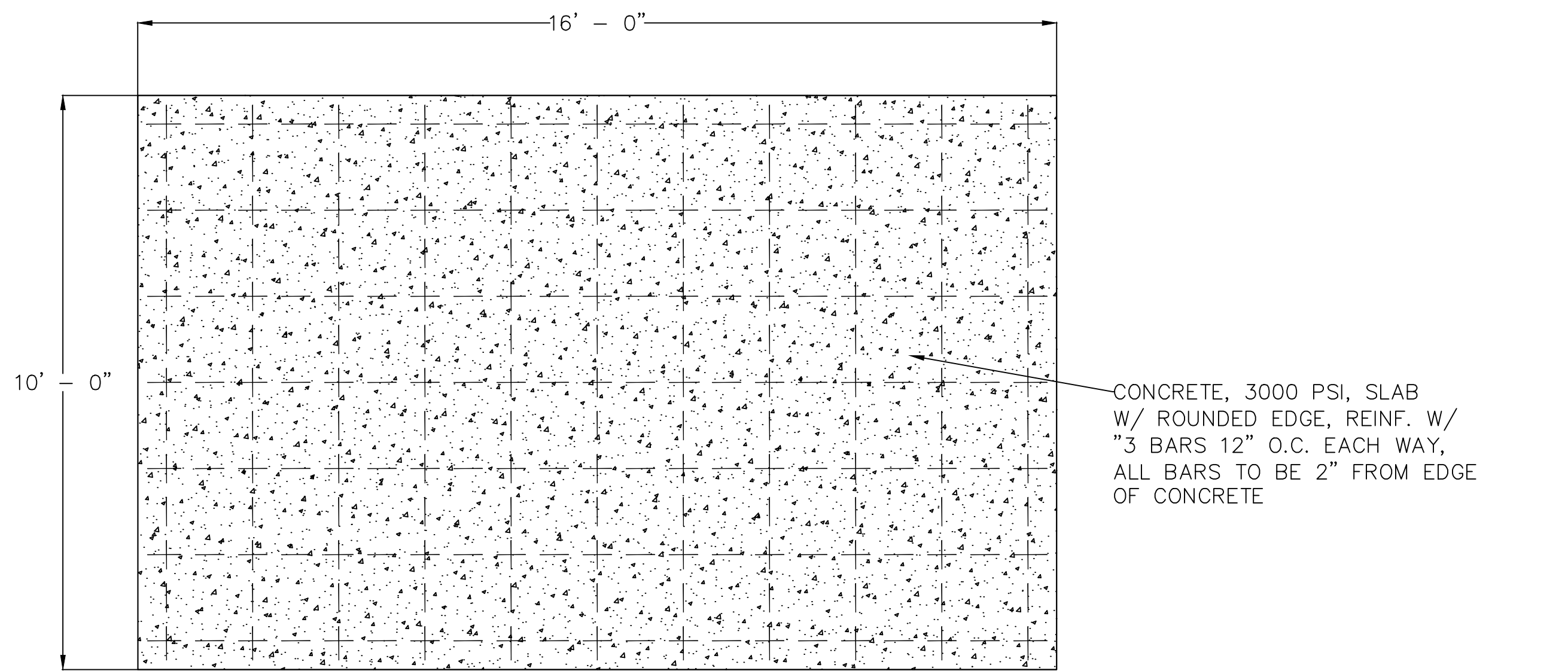
Scale 1/2" = 1'-0"



① SECTION ELEVATION

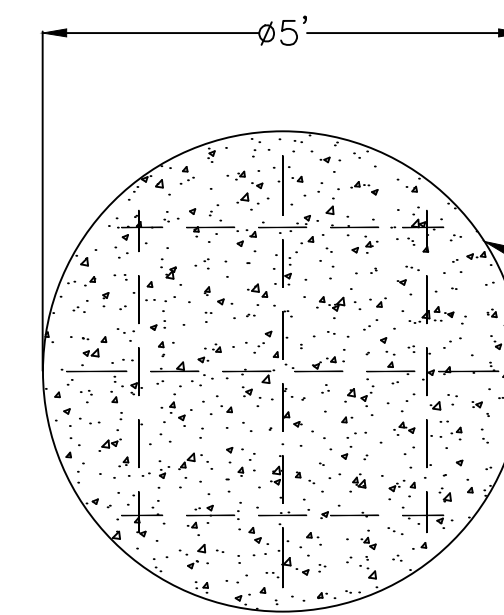
02 DG PATHWAY w/ CONCRETE MOW STRIP (TYP.)

Scale 1/2" = 1'-0"



03 CONCRETE SLAB (TYP.)
PEDESTRIAN ENTRANCE GATE SLAB

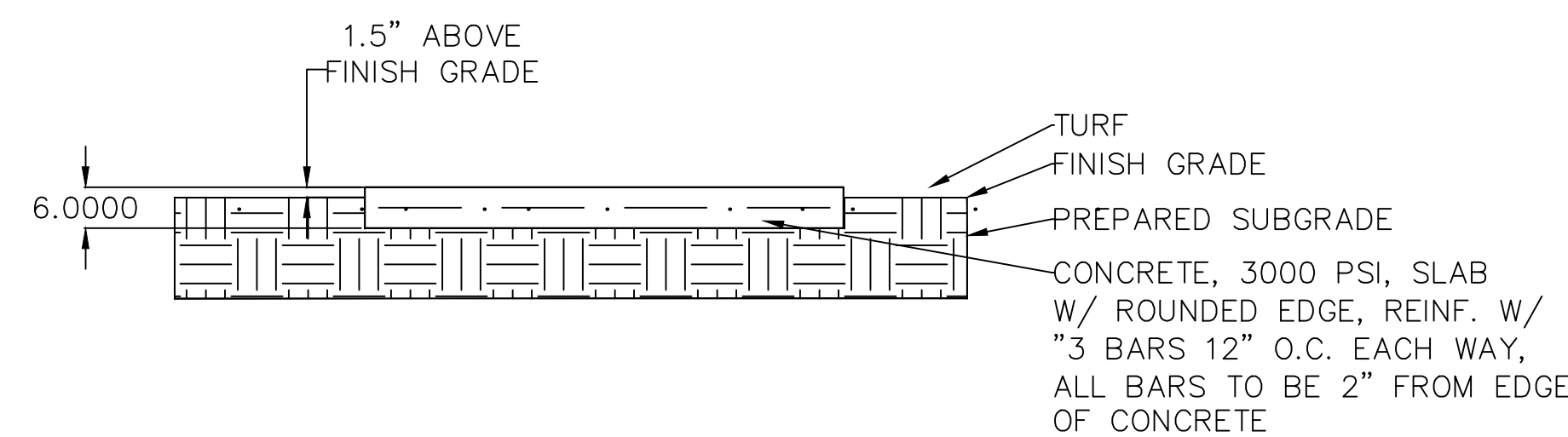
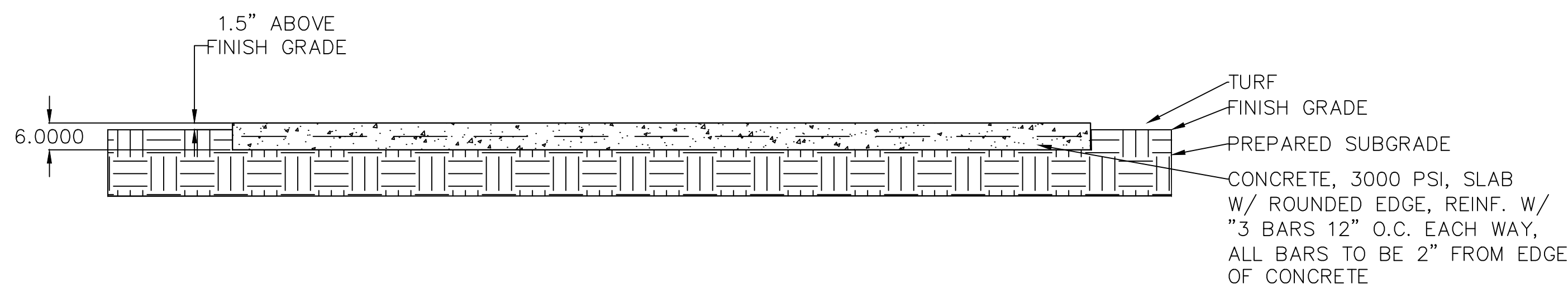
Scale 1/2" = 1'-0"



04 CONCRETE SLAB
SCULPTURE FOUNDATION

Scale 1/2" = 1'-0"

NOTIFY ENGINEER WITH SCULPTURE HAS BEEN SELECTED TO VERIFY BEARING AND STABILITY.



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WALKWAY &
SLAB DETAILS

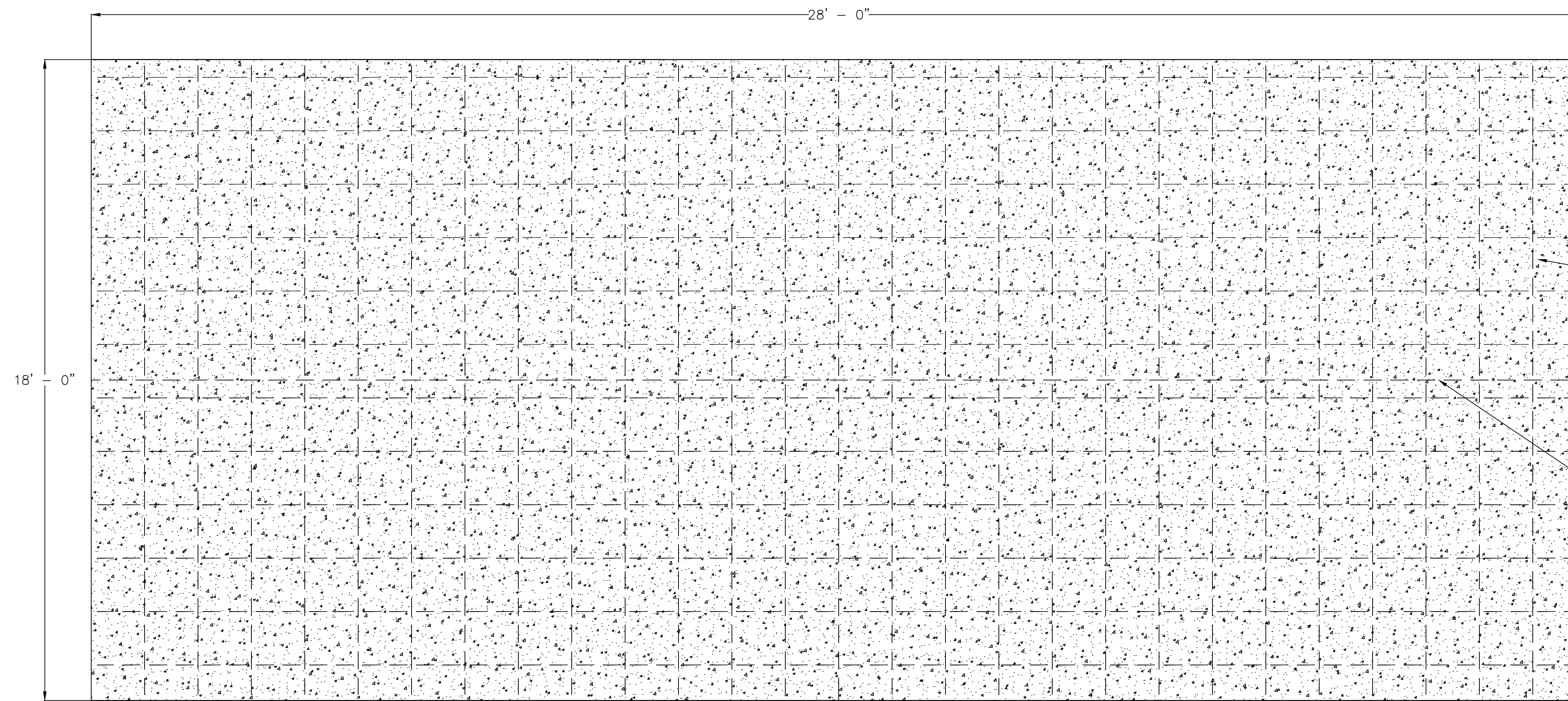
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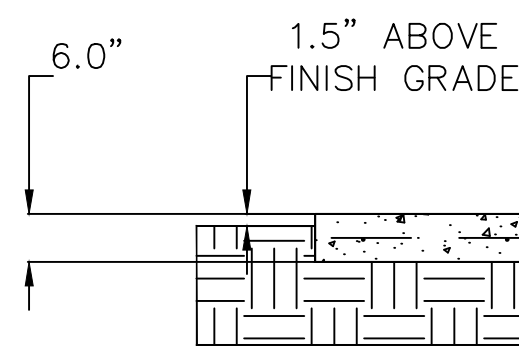
Sheet Title
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Concrete Details



CONCRETE, 3000 PSI, SLAB
W/ ROUNDED EDGE, REINF. W/
#3 BARS 18" O.C. EACH WAY,
ALL BARS TO BE 2" FROM EDGE
OF CONCRETE

PROVIDE 3/4" DEEP
CONTROL JOINT HALF
LENGTH/WIDTH BOTH
DIRECTIONS



TURF
FINISH GRADE
PREPARED SUBGRADE
CONCRETE, 3000 PSI, SLAB
W/ ROUNDED EDGE, REINF. W/
#3 BARS 12" O.C. EACH WAY,
ALL BARS TO BE 2" FROM EDGE
OF CONCRETE

01 CONCRETE SLAB (TYP.)
PEDESTRIAN ENTRANCE GATE SLAB
Scale 1/2" = 1'-0"

Materials Schedule					
Slab Pedestrian Entrance	16'x10'x6"	3000psi	#3 rebar	21 CY Concrete	2250 LF Rebar
Slab (Pavillion)	28'x18'x6"	3000psi	#3 rebar	38 CY Concrete	4000 LF Rebar
Fence Mow Strip	18" x 6"	3000psi	#3 rebar	83 CY Concrete	6000 LF Rebar
Pathway Mow Strip	12" x 6"	3000psi	#5 rebar	63 CY Concrete	6600 LF Rebar
Decomposed Granite	2" Depth			103 CY	
Millings	4" Depth			206 CY	

NOTE: ALL QUANTITIES ARE APPROXIMATE, IT IS RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE PROJECT TOTALS OF ALL MATERIALS AND COMPONENTS.



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WALKWAY & SLAB DETAILS

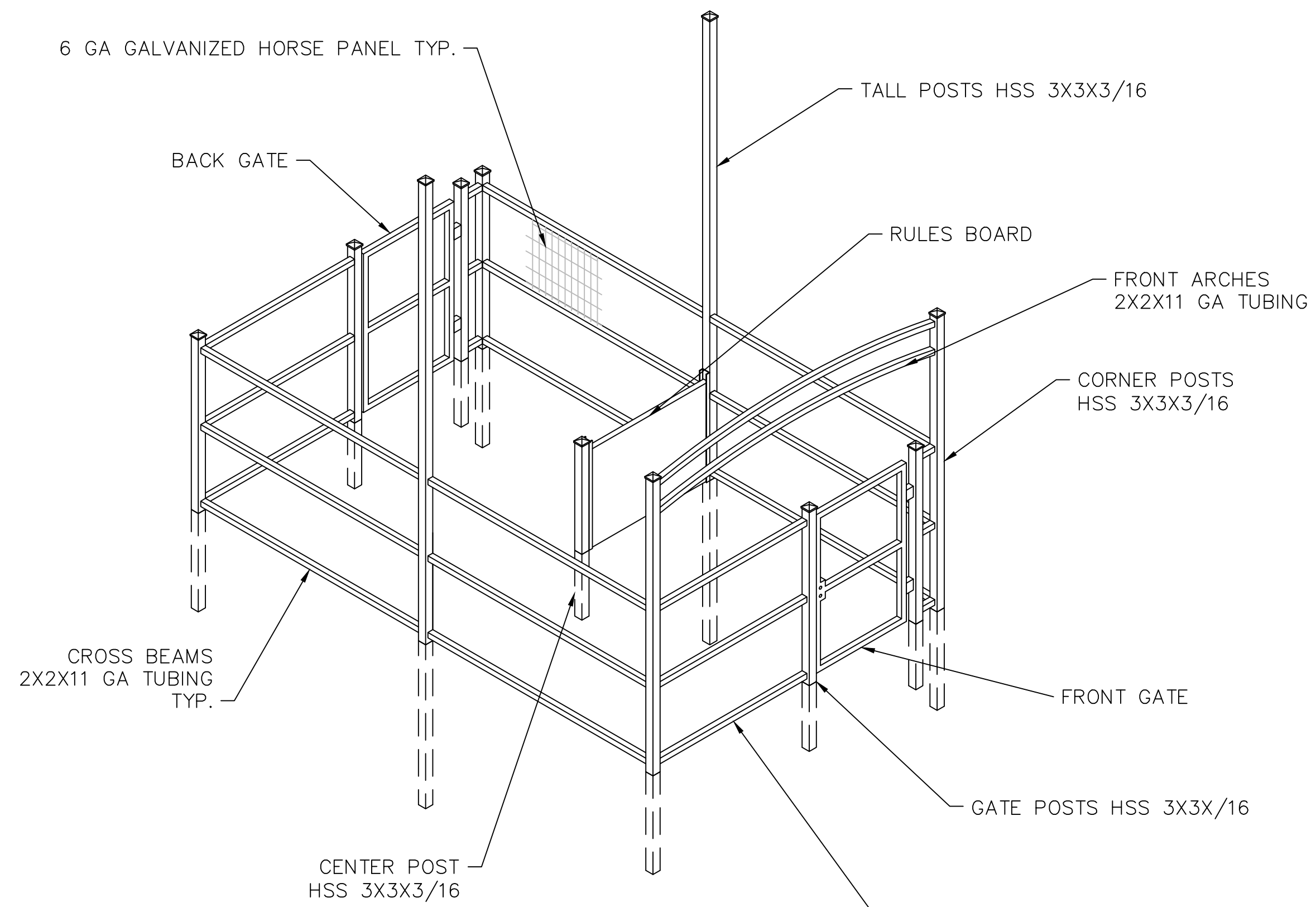
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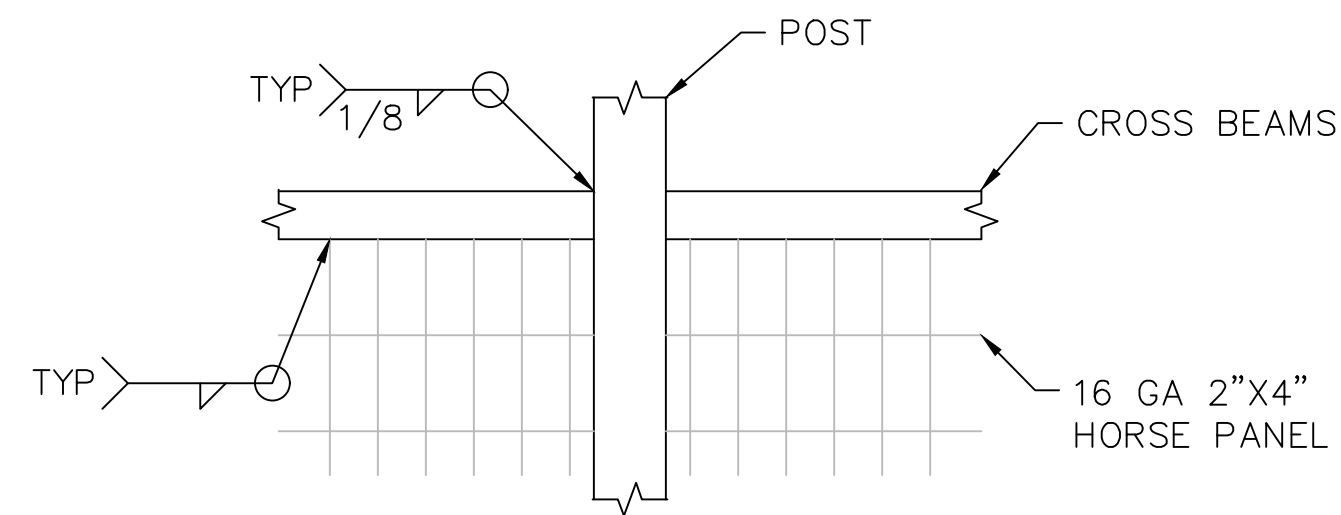
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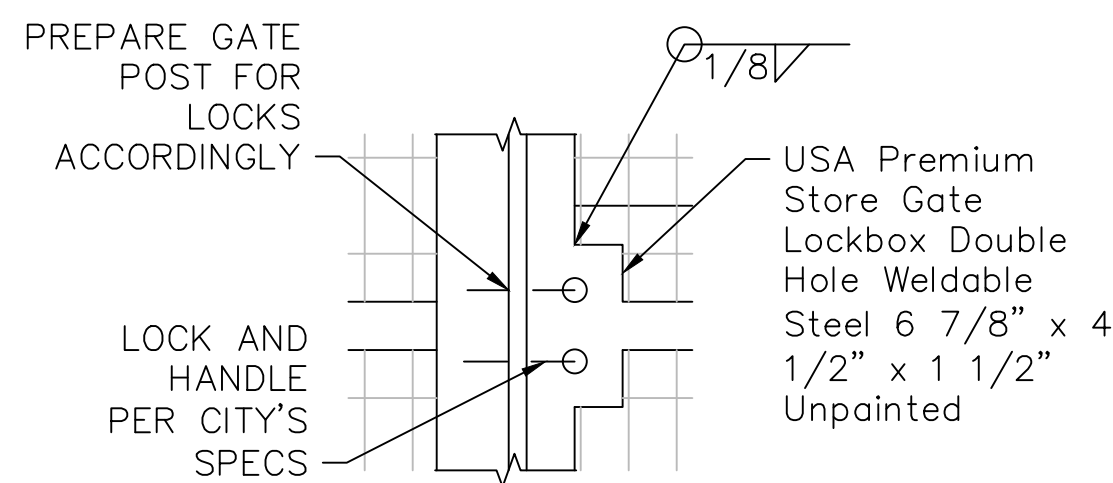


ALL STEEL COMPONENTS TO BE PAINTED WITH PITTHANE@ULTRA Gloss Urethane Enamels (BLACK)

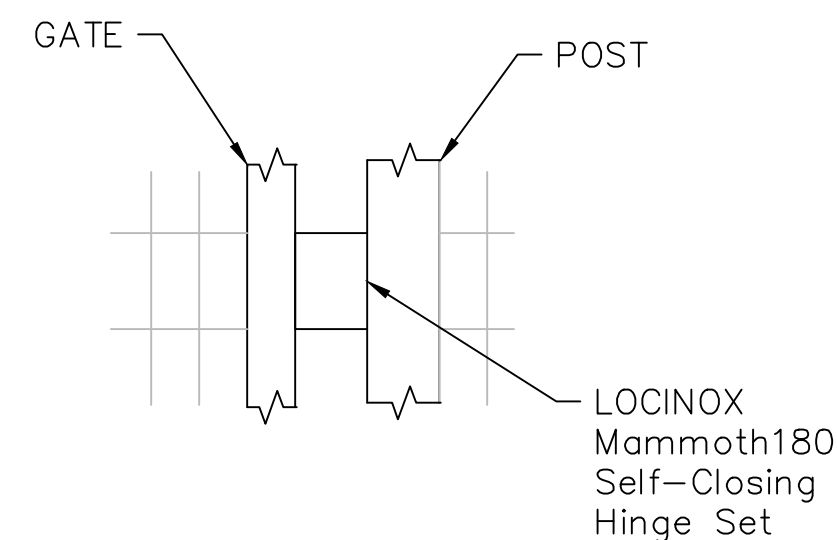
01 ENTRY GATE
ISOMETRIC VIEW Scale 3/8" = 1'-0"



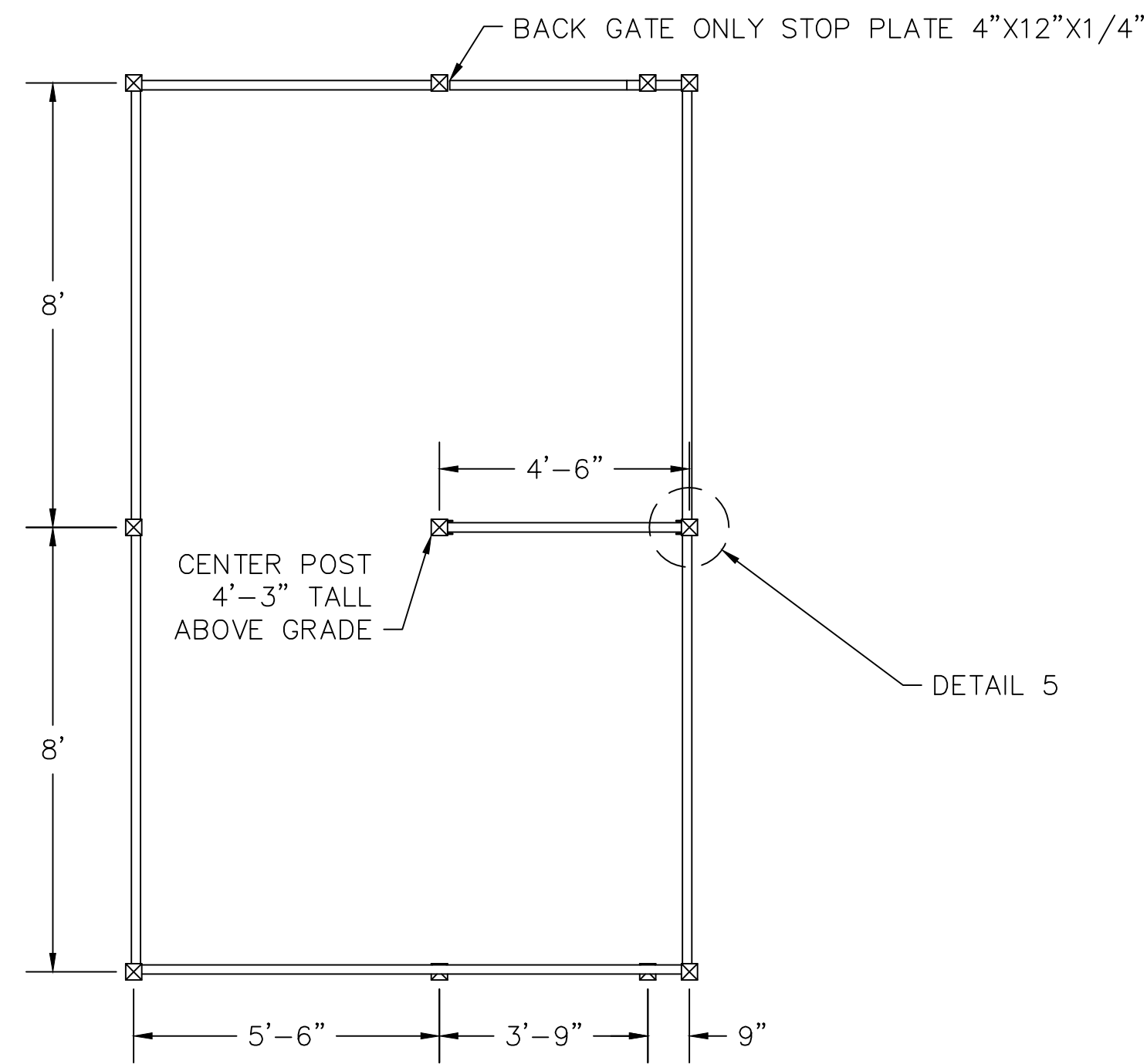
07 BEAM AND PANEL ATTACHMENT
SIDE VIEW Scale 1 1/2" = 1'-0"



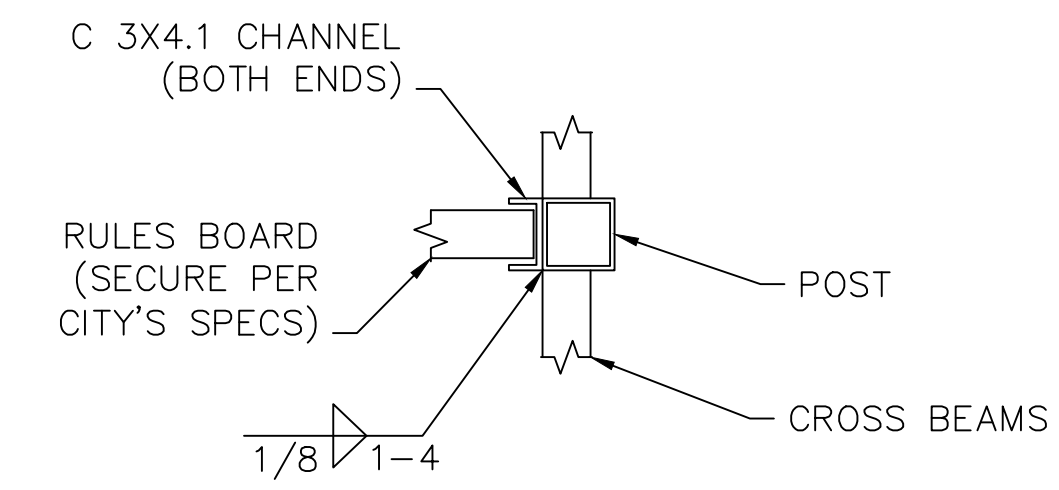
08 GATE LOCK BOX
SIDE VIEW Scale 1 1/2" = 1'-0"



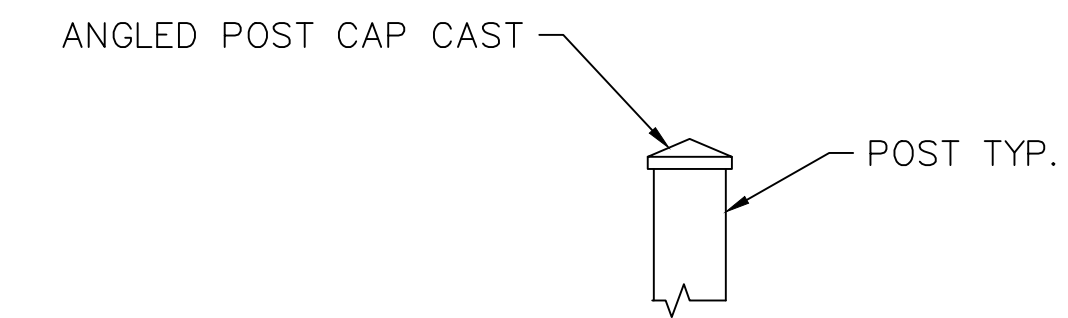
09 GATE HINGES
SIDE VIEW Scale 1 1/2" = 1'-0"



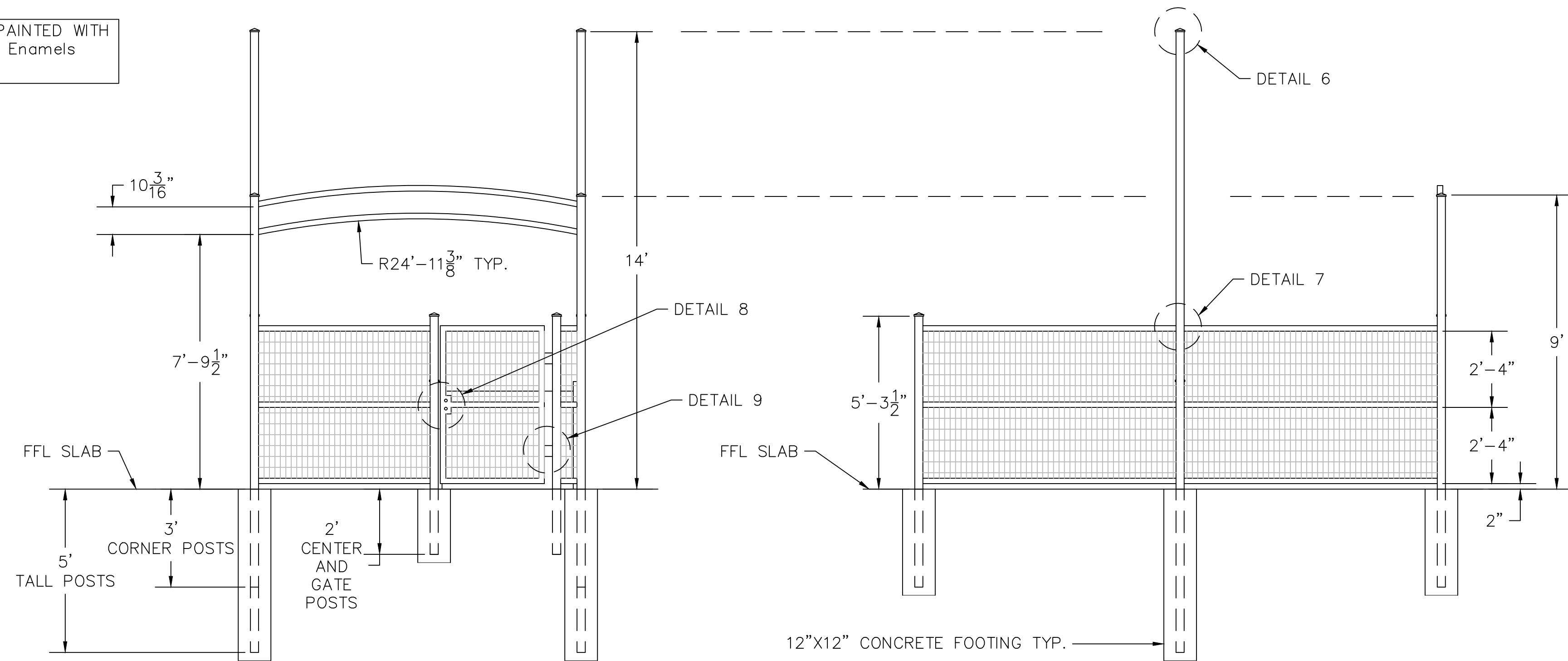
02 ENTRY GATE
TOP VIEW Scale 3/8" = 1'-0"



05 RULES BOARD ATTACHMENT
TOP VIEW Scale 1 1/2" = 1'-0"



06 POST CAP
SIDE VIEW Scale 1 1/2" = 1'-0"



03 ENTRY GATE
FRONT VIEW Scale 3/8" = 1'-0"

04 ENTRY GATE
SIDE VIEW Scale 3/8" = 1'-0"

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ENTRY GATE
DETAILS

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[Signature]