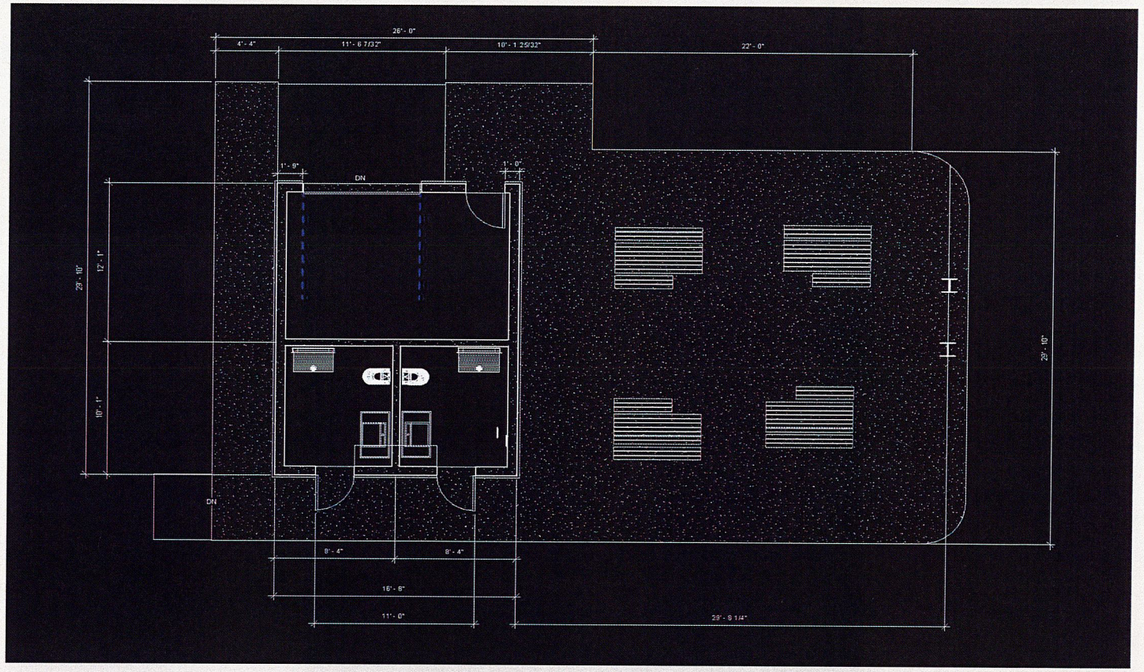
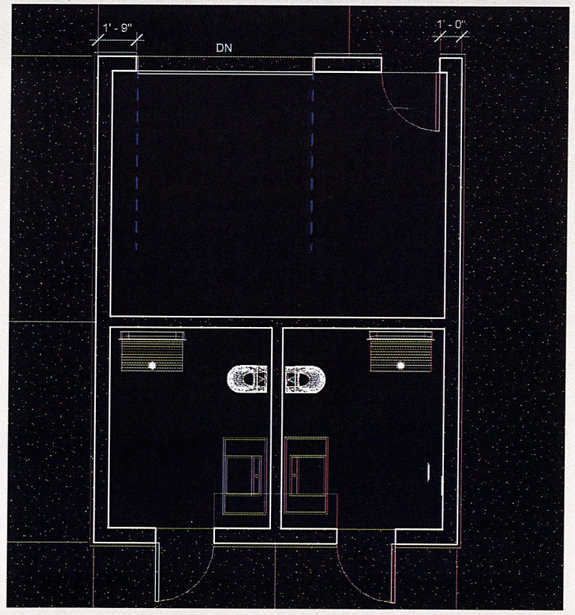
Revit Design



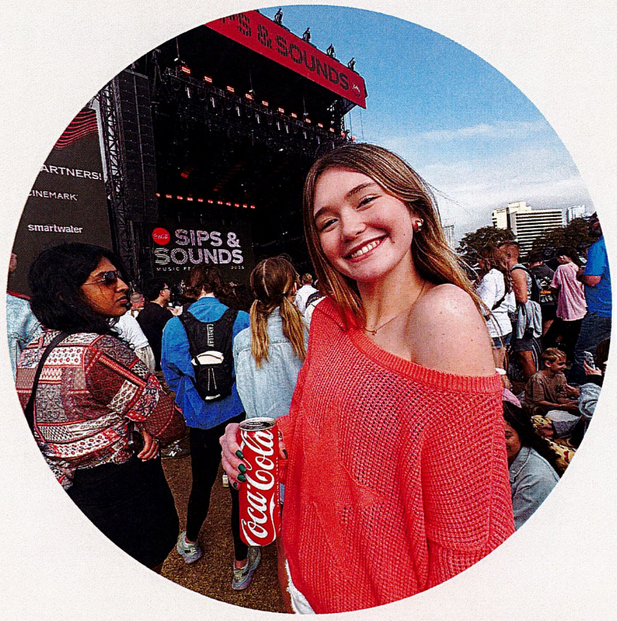


Meet The Designers

Faith Bartlett *(Jr.)*

faithbartlett@aledoisd.org

Designer/Modeler



Samuel Ghent *(Sr.)*

samghent01@gmail.com

CAD
Drafter/Designer/Modeler

Amelia Buck *(Jr.)*

ameliabuck@aledoisd.org

Designer/Modeler

Matthew Dominick *(Jr.)*

matthewdominick@aledoisd.org

Designer/Modeler

OUR APPROACH

We aimed to create a pavilion that fits right into the park, balancing the needs and preferences of the park's guests with practical and aesthetic features. For example, our design is practical through the incorporation of ADA guidelines, while still remaining aesthetically pleasing.

DESIGN INSPIRATION

We got our inspiration from the surrounding buildings such as The Shops at Willow Park, and other photos from park bathrooms and pavilions.

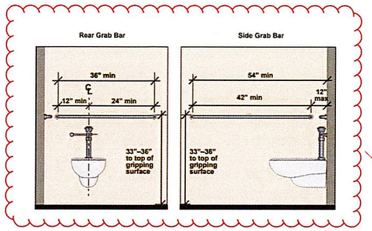
KINGS GATE PARK
RESTROOM AND PAVIL-

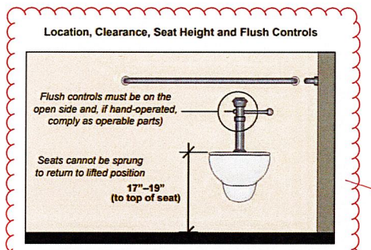
SITE PLAN

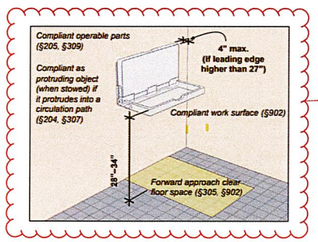
DRAFT 4-29-25

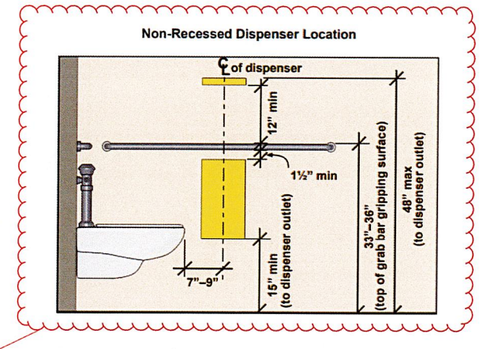
CITY OF WILLOW PARK

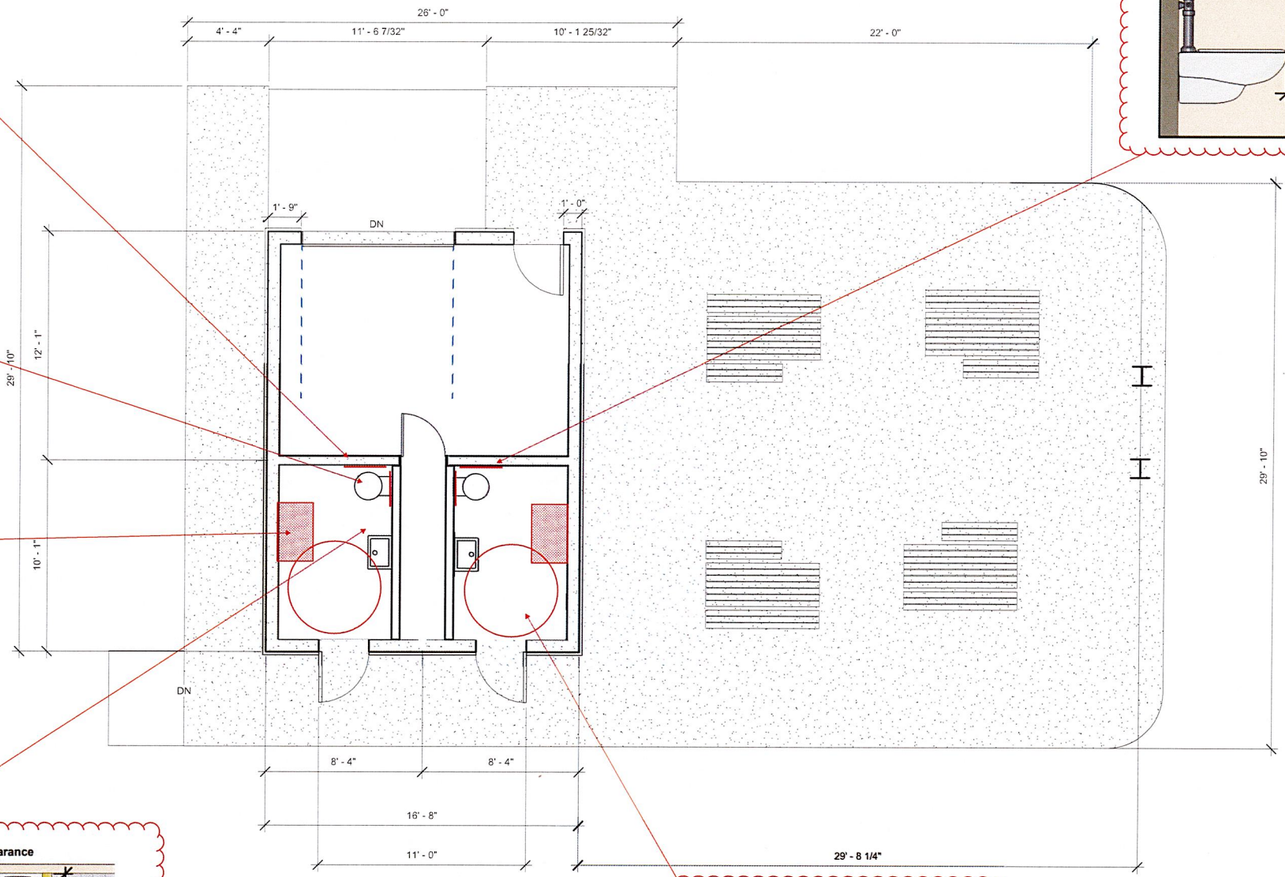
SITE PLAN

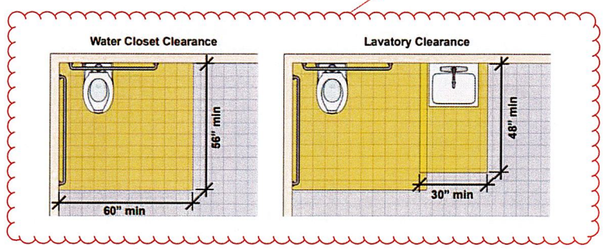


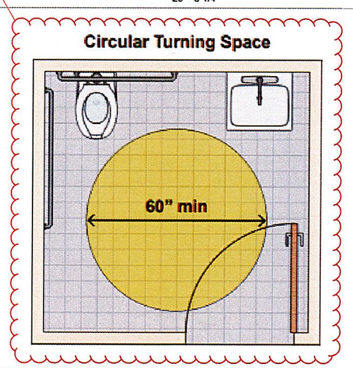












1 First Floor
1/4" = 1'-0"

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DRAFT

4/24/25

No.	Description	Date

City of WIllow Park

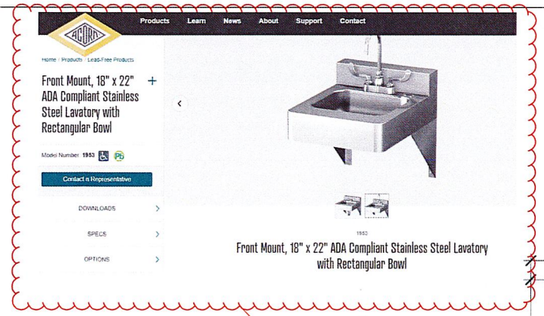
Kings Gate Park

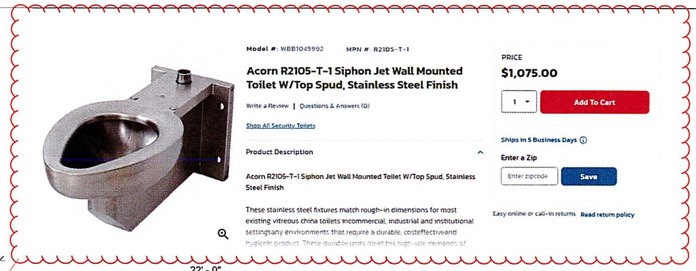
First Floor Plan

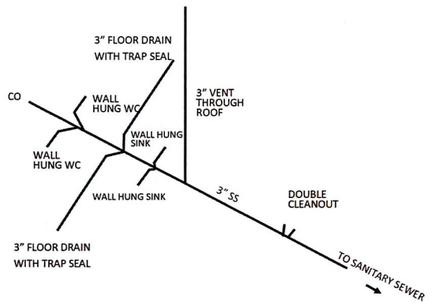
Project number	Project Number
Date	Issue Date
Drawn by	Samuel Ghent
Checked by	Checker

A1

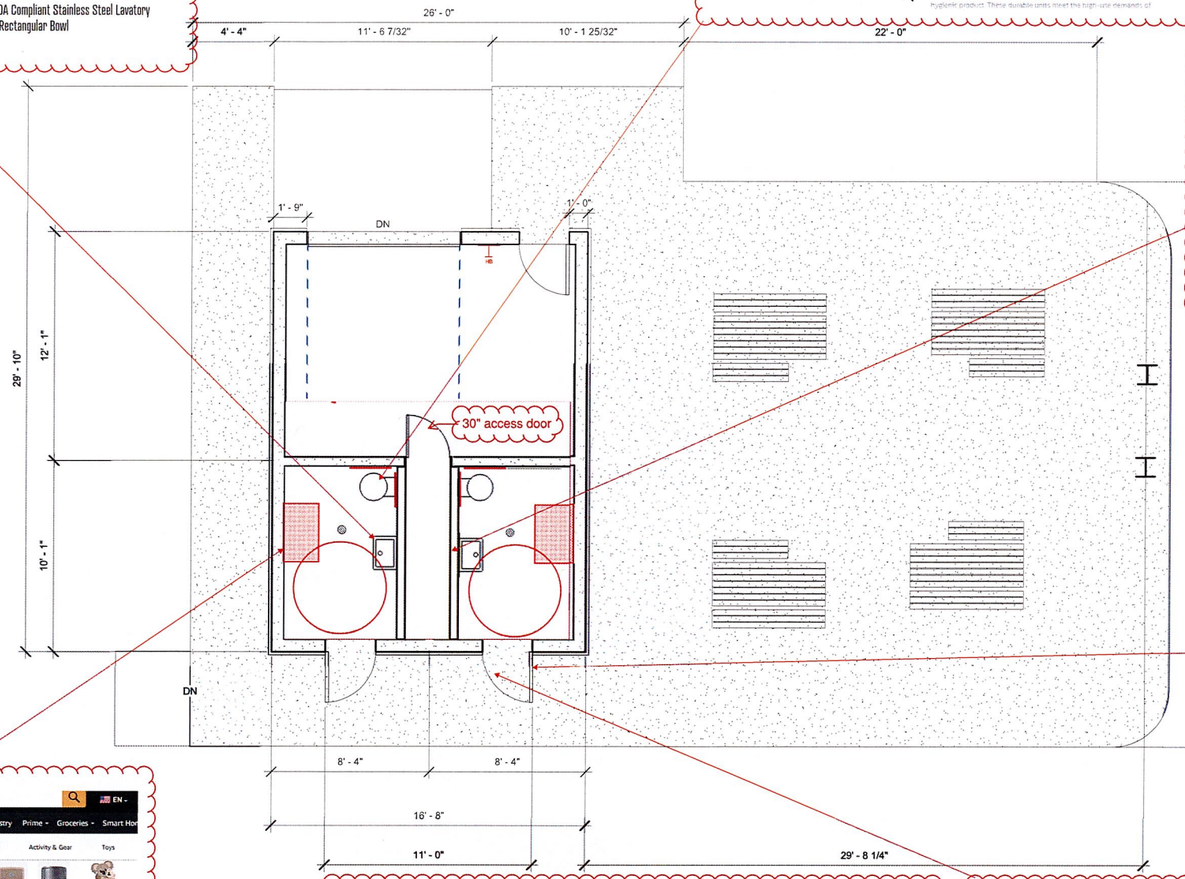
Scale 1/4" = 1'-0"

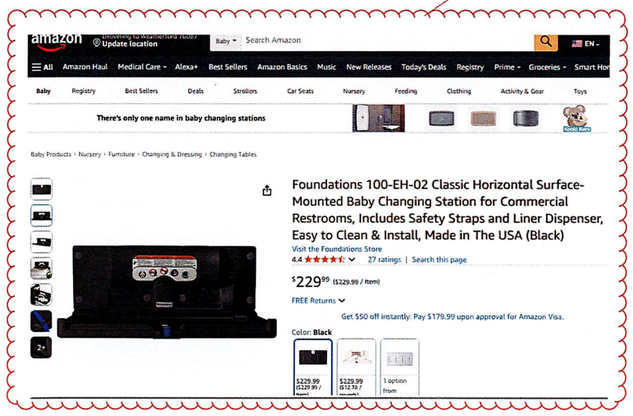


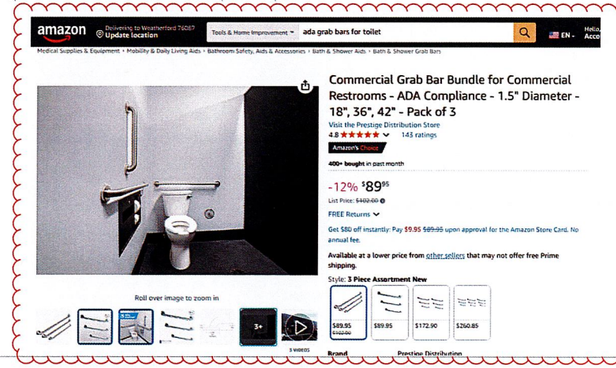


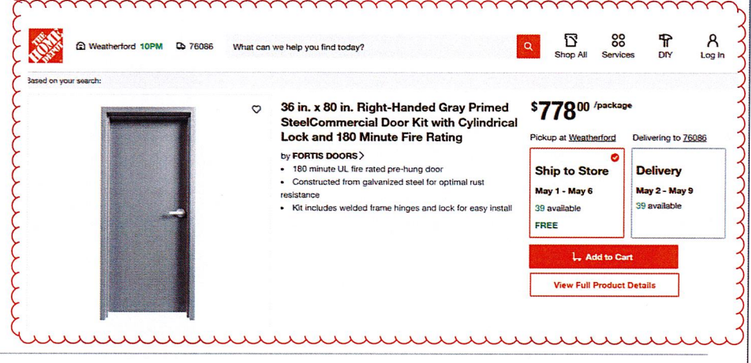


PLUMBING SCHEMATIC









1 First Floor
1/4" = 1'-0"

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DRAFT

No.	Description	Date

City of WIllow Park

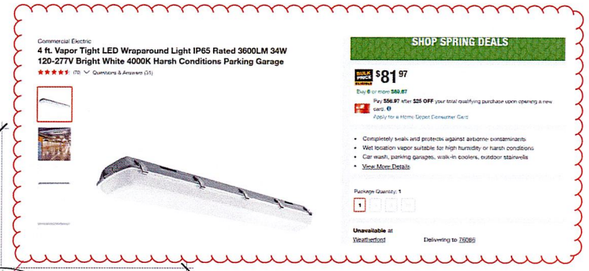
Kings Gate Park

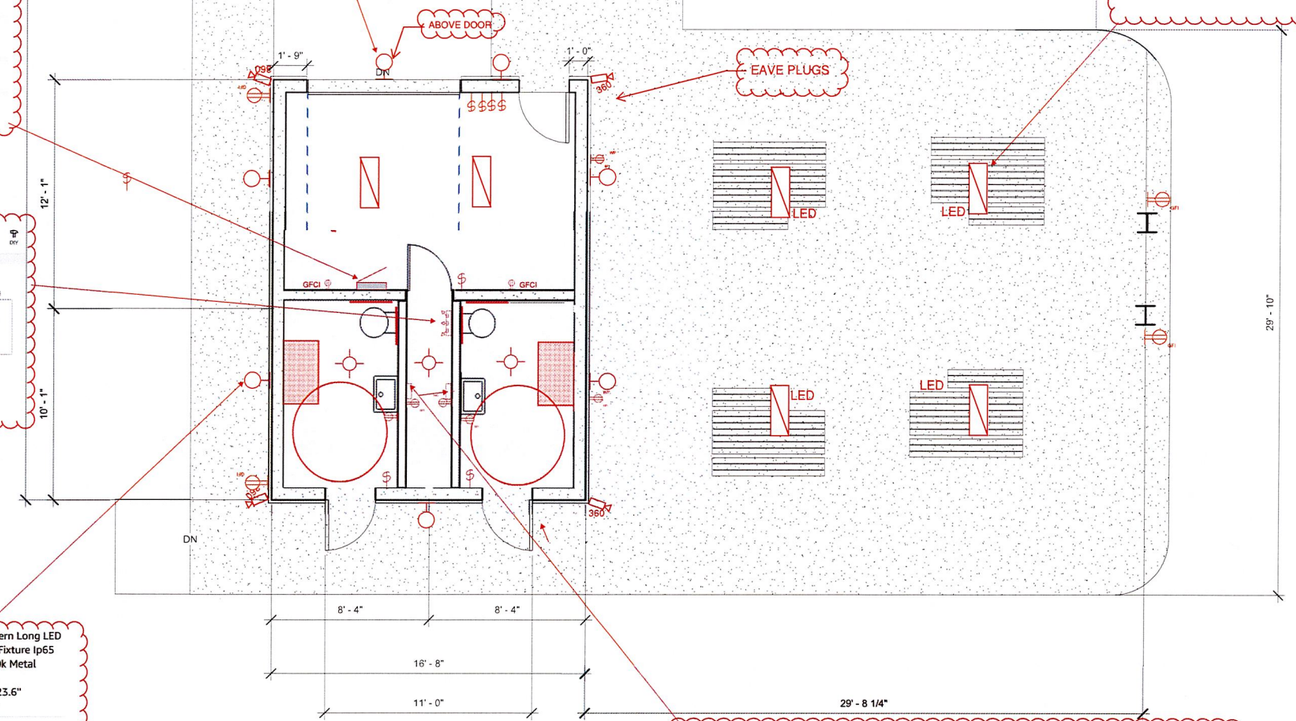
First Floor Plan
PLUMBING

Project number	Project Number
Date	Issue Date
Drawn by	Samuel Ghent
Checked by	Checker

P1

Scale 1/4" = 1'-0"





1 First Floor
1/4" = 1'-0"

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DRAFT
4/24/25

No.	Description	Date

City of WIllow Park
Kings Gate Park
First Floor Plan
ELECTRICAL

Project number	Project Number
Date	Issue Date
Drawn by	Samuel Ghent
Checked by	Checker
E1	
Scale	1/4" = 1'-0"

GENERAL NOTES

EXISTING CONDITIONS. EACH BIDDER/CONTRACTOR SHALL VISIT THE JOB SITE AS REQUIRED TO DETERMINE AND / OR VERIFY EXISTING CONDITIONS. ANY EXCEPTIONS TO EXISTING CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CITY.

THE CONTRACTOR SHALL COMPARE STRUCTURAL DRAWING TO ALL OTHER DISCIPLINES. ANY DESCREPENCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE CITY.

THE STRUCTURAL DRAWINGS REPRESENTS THE FINISHED STRUCTURE. DRAWINGS DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE AL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BE NOT LIMITED TO BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS ETC.

THIRD PARTY COMPONENT DESIGNERS SHALL VERIFY ALL DESIGN / CODE REQUIREMENTS WITH THE BUILDING OFFICIAL PRIOR TO BIDS OR FABRICATION.

DESIGN CRITERIA

1. BUILDING CODES

   A. 2021 INTERNATIONAL BUILDING CODE AS ADOPTED BY THE CITY OF WILLOW PARK, TEXAS.

   B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318.

   C. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS– ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, NINTH EDITION.

2. DESIGN CRITERIA

   GRAVITY LOADS
   ROOF LIVE LOAD OF 20 PSF
   ROOF DEAD LOAD OF 20 PSF
   FLOOR LIVE LOAD 40 PSF
   CORRIDOR AND STAIRS LOAD 100 PSF 300 LBS CONC.
   GROUND SNOW LOAD 5 PSF
   RAIN LOADING 4 INCHES PER HOUR
   WIND LOAD PER IBC 2021 EDITION
   BASIC WIND SPEED V_UT = 115 MPH Vads 3s = 90 MPH, CAT. II
   CATEGORY II EXPOSURE C
   INTERNAL PRESSURE COEFFICIENT GCpi + 0.55 –0.55
   GAZING DESIGN PRESSURE DP = 15

A) EARTHQUAKE DESIGN PER IBC 2021 EDITION

   RISK CATEGORY II
   SEISMIC IMPORTANCE FACTOR IE=1
   S3 = 0.037 S1 = 0.02
   SITE CLASS D
   Sds = 0.029 Sd1 = 0.02
   SEISMIC DESIGN CATEGARY A
   BASIC SEISMIC FOR RESISTANCE SYSTEM, A.15– LIGHT FRAME WOOD
   DESIGN BASE SHEAR V=28.4K
   SEISMIC RESPONSE COEFFICIENT, Cs=0.01
   RESPONSE MODIFIER, R=6.5
   ANALYSIS PROCEDURE, SIMPLE DESIGN PROCEDURE

MASONRY NOTES

1. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N. NORMAL WEIGHT UNITS, TYPE 1 MOISTURE. UNITS SHALL NOT BE WET AT THE TIME OF PLACING. A LETTER CERTIFYING THAT THE MASONRY UNITS MEET OR EXCEED THE SPECIFIED COMPRESSIVE STRENGTH OF THE MASONRY UNITS SHALL BE PROVIDED BY THE MANUFACTURE PRIOR TO DELIVERY.
2. MORTAR FOR MASONRY WORK SHALL BE TYPE "S" (ASTM C270, LATEST EDITION). PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME, AND 3 1/2 TO 4 1/2 PARTS SAND WITH WATER AS REQUIRED FOR WORKABILITY. RETEMPERING WILL NOT BE ALLOWED. MASONRY CEMENTS OR PRE-MIXED MORTARS WILL POSITIVELY NOT BE ALLOWED. LIME SHALL BE TYPE "S" ONLY. NO AIR ENTRAINMENT WILL BE ALLOWED.
3. GROUT USED IN MASONRY WORK SHALL BE COARSE GROUT (ASTM C476, LATEST EDITION). PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, UP TO 1/10 PART HYDRATED LIME, 2 1/2 TO 3 PARTS FINE AGGREGATE, AND 1 TO 2 PARTS COARSE AGGREGATE WITH WATER AS REQUIRED FOR WORKABILITY. GROUT SHALL BE ADEQUATELY CONSOLIDATED, BUT CARE SHALL BE TAKEN TO AVOID BLOW-OUTS WHEN VIBRATING. THE CAVITY SHALLL BE CLEANED OF ALL MORTAR DROPPINGS, DEBRIS, TRASH, ETC. PRIOR TO GROUTING.
4. ACCURATE MEASURING CONTAINERS, SUCH AS A "CUBIC FOOT BOX", SHALL BE PROVIDED AND USED AT ALL TIMES IN MIXING BOTH MORTAR AND GROUT USED IN MASONRY WORK.
5. SEPARATE MIXERS SHALL BE PROVIDED FOR MORTAR AND GROUT USED IN MASONRY WORK.
6. JOINT REINFORCEMENT, HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER OR TRUSS TYPE WITH A MINIMUM OF (2) #9 WIRES. JOINT REINFORCEMENT SHALL BE PLACED VERTICALLY AT 16" ON CENTER.
7. REFERENCE ARCHITECTURAL DRAWINGS FOR OPENING, ARCHES, AND ALL OTHER DETAILS IN MASONRY WORK.
8. ALL RECOMMENDATION OF THE NATIONAL CONCRETE MASONRY ASSOCIATION SHALL BE FOLLOWED IN REGARDS TO WORKMANSHIP, COLD WEATHER PROCEDURES, FLASHING, LEVEL AND PLUMB TOLERANCES, ETC.
9. ALL BOLTS, ANCHORS, ETC. INSERTED IN THE WALL SHALL BE GROUTED SOLID IN PLACE.
10. DESIGN STRESSES HAVE BEEN ADJUSTED TO PERMIT NON-CONTINUOUS INSPECTION WHERE ALL ALLOWED BY AHJ.
11. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY , fm, SHALL NOT BE LESS THAN 1800 PSI.
12. MASONRY LINTEL SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING SCHEDULE.

OPENING	LINTEL AND REINFORCING
TO 4'-0"	8" LINTEL WITH (2)-#4's
TO 6'-0"	16" LINTEL WITH (2)-#4's
TO 10'-0"	16" LINTEL WITH (2)-#5's

13. PROVIDE #5 VERTICAL REINFORCEING AT 32" O.C. IN FULLY GROUTED CELLS. PROVIDE VERTICAL REBAR ON EACH SIDE OF ALL OPENINGS.

GENERAL MATERIAL NOTES

1. ALL CONCRETE SHALL CONFORM TO ASTM C94, NORMAL WEIGHT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. EXPOSED CONCRETE SHALL BE AIR-ENTRAINED.
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A 615 (PLUS S1) GRADE 60, FY = 60KSI.
3. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE ASTM A36, FY = 36 KSI MIN. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B FY = 46 KSI MIN.
4. SELECT FILL SHALL BE CLAYEY SAND FREE OF ORGANIC MATERIALS WITH A PLASIC INDEX (PI) BETWEEN 8 AND 18, AND WITH A LIQUID LIMIT (LL) OF 35 OR LESS.

GENERAL FOUNDATION NOTES

1. STRIP BUILDING SITE OF TOPSOIL AND ORGANIC MATERIAL.
2. REMOVE EXISTING SOILS TO A DEPTH TO SATISFACTORY BEARING SUBSTRAIT.
3. SCARIFY EXPOSED SUB-GRADE TO 9 INCHES AND COMPACT EXPOSED GRADE MINIMUM OF 95% OF STANDARD PROCTOR DENSITY ASTM 698, AT OR ABOVE OPTIMUM MOISTURE CONTENT.
4. PLACE FILL IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN UN-COMPACTED THICKNESS. COMPACT FILL TO A MINIMUM OR 95% OF STANARD PROCTOR DENSITY AT OR ABOVE OPTIMUM MOISTURE CONTENT.
5. REPLACE EXCAVATED SOILS WITH EXISTING ONSITE SOILS COMPACTION MINIMUM OF 95% TO A MINIMUM OF +2% ABOVE OPTIMUM MOISTURE CONTENT AND FINISH WITH A MINIMUM OF 12" OF SELECT FILL AS REQUIRED TO ACHIEVE FINAL GRADES.
6. USE SAND PLATES AND CHAIRS TO SUPPORT REINFORCING.
7. LAP REINFORCEING BAR A MIN. OF 30 BAR DIAMETERS AT ALL SPLICES.
8. PROVIDE #4 DOWELS AT 12" O.C. AT ALL SIDEWALKS TO BUILDING ENTRANECES INTERFACES.
9. SLABS ON GRADES SHALL BE A MINIMUM OF 5 INCHES THICK REINFORECED SLAB. REINFORCING SHALL BE #3 AT 18" O.C. EACH WAY.
10. PROVIDE 10 MIL VAPOR BARRIER UNDER BUILDING SLAB.
11. COORDINATE ALL WORK (MECHANICAL, ELECTRICAL, SLEEVES, CONDUIT, CAST-IN-PLACE ITEMS, ETC.) PRIOR TO PLACING CONCRETE.

STEEL NOTES

1. STRUCTURAL STEEL: ALL WIDE FLANGE SECTIONS SHALL BE ASTM A572 GRADE 50. ALL ANGLES, CHANNELS, AND PLATES SHALL BE ASTM A36. ALL STRUCTURAL STEEL PIPE SHALL BE ASTM A 53 GRADE B. ALL TUBE STEEL SECTIONS SHALL BE ASTM A500 GRADE B. STRUCTURAL STEEL SECTIONS SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION", NINTH EDITION. ALL STRUCTURAL STEEL SHAL BE PAINTED WITH A SHOP PRIME COAT AND FIELD RETOUCHED WHERE THE SHOP COAT HAS BEEN DAMAGED DUE TO PLACING, HANDLING, AND WELDING.
2. CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR 1/2 OF THE ALLOWABLE UNIFORM LOAD OF AISC TABLES FOR THE SPAN OF A BEAM.
3. ALL STEEL BEAMS SHALL BE FABRICATED WITH NATURAL CAMBER UP.
4. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEE SHAL USE 3/4" DIAMETER ASTM A325 HIGH STRENGTH BOLTS EXCEPT FOR JOIST BEARING AND BRIDGING, WHICH SHALL BE 5/8" DIAMETER ASTM HIGH STRENGTH BOLTS. CONNECTIONS SHALL BE BEARING TYPE WITH THREADS. NOT ALLOWED IN SHEAR PLANE.
5. ALL ANCHOR BOLTS SHALL BE 3/4" DIA. ASTM A 307 UNFINISHED WITH SUITABLE NUTS AND WASHERS, UNLESS OTHERWISE NOTED.
6. ALL WELDS SHALL USE E70XX LOW HYDROGEN ELECTRODES AND SHALL BE MADE IN ACCORDANCE WITH AISC AND AWS.

KINGS GATE PARK
RESTROOM AND PAVILION

GENERAL NOTES

CITY OF WILLOW PARK
KINGS GATE PARK

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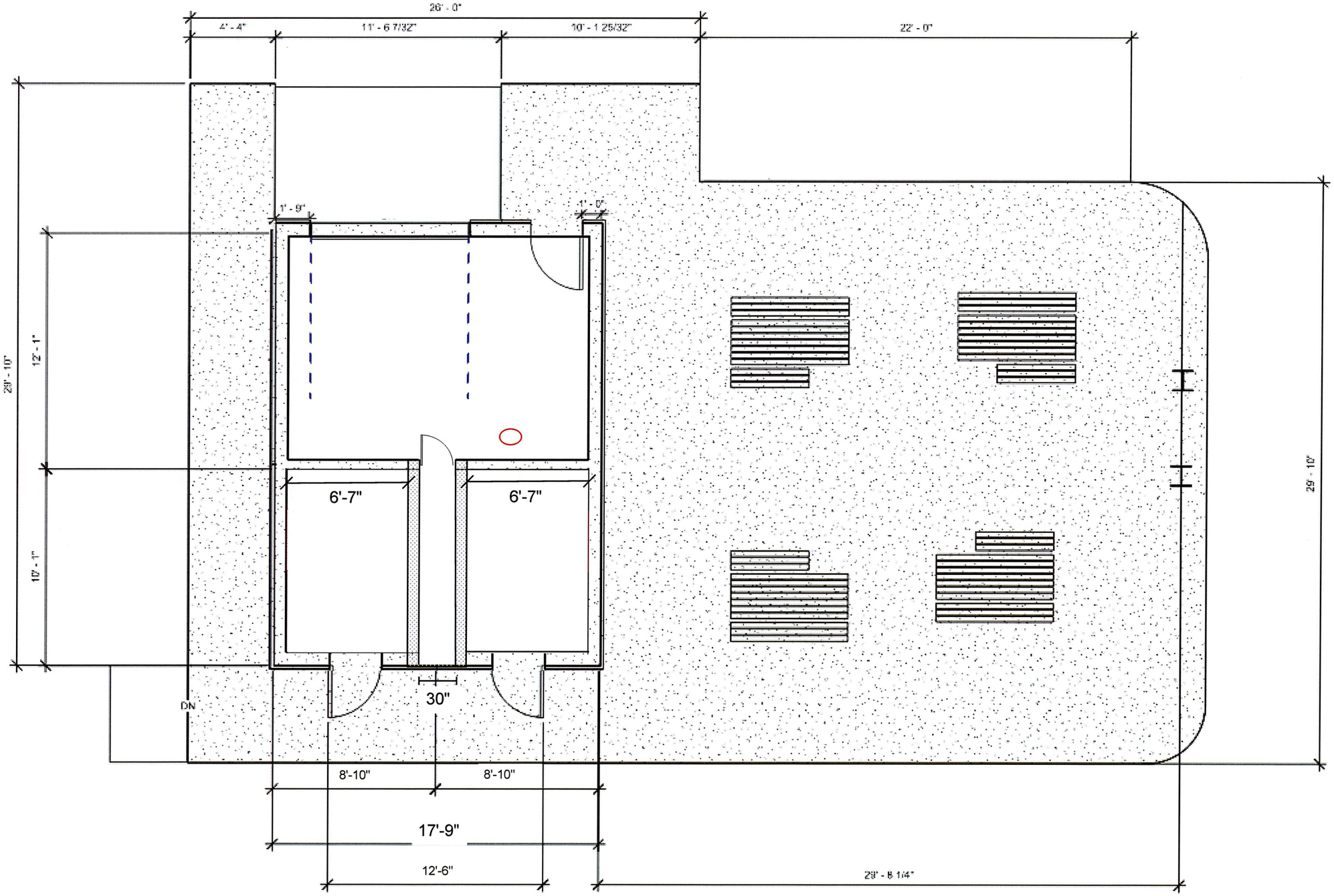


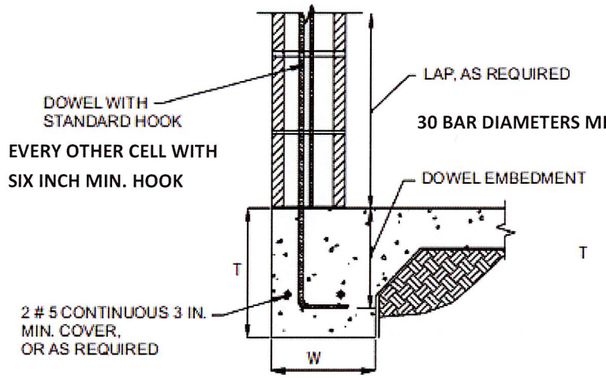
N.T.S.

KINGS GATE PARK
RESTROOM AND PAVILION

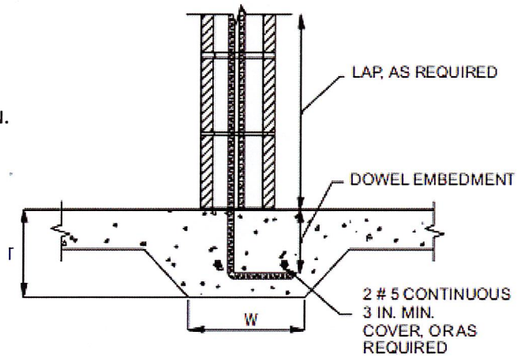
FOUNDATION

CITY OF WILLOW PARK
KINGS GATE PARK
BATHROOMS

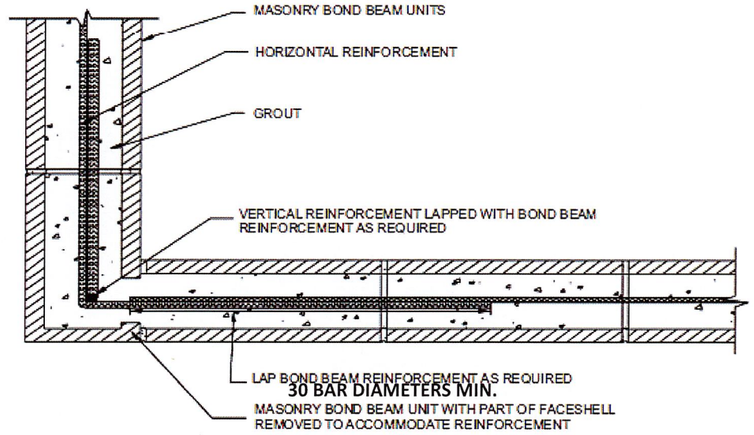
STRUCTURAL S1



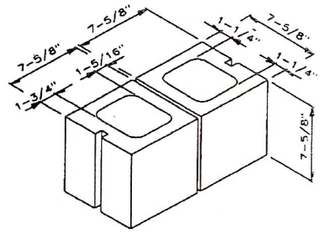
EXTERIOR WALL **DETAIL A**



INTERIOR WALL **DETAIL B**



Vertical Concrete Blocks



8"X8"X16"(8 inches)

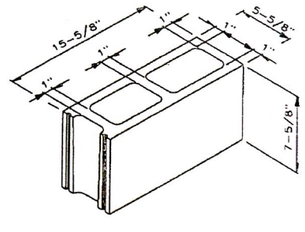
Coosal's Block Calculator

Wall Height (ft): 10

Wall Length (ft): 56

Total Masonry Units Required: 677 Blocks

Vertical Concrete Blocks



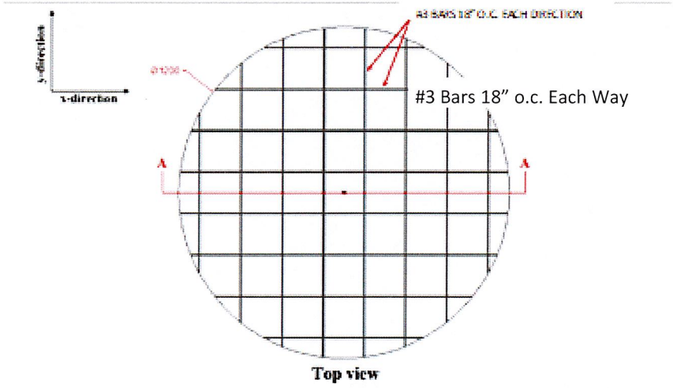
6"X8"X16" (6 inches)

Coosal's Block Calculator

Wall Height (ft): 10

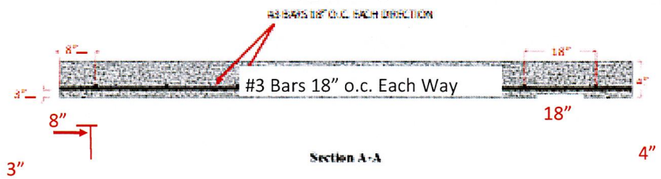
Wall Length (ft): 26

Total Masonry Units Required: 314 Blocks

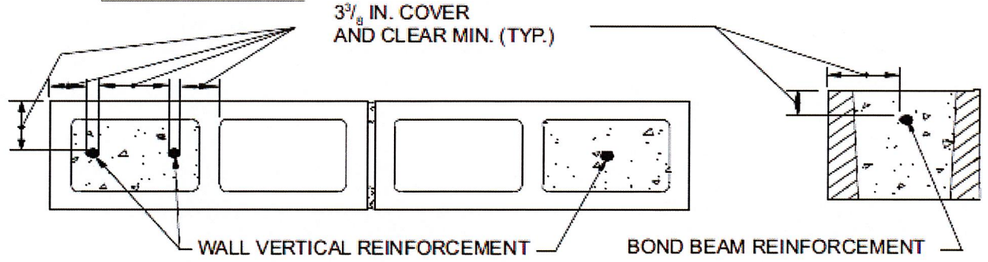


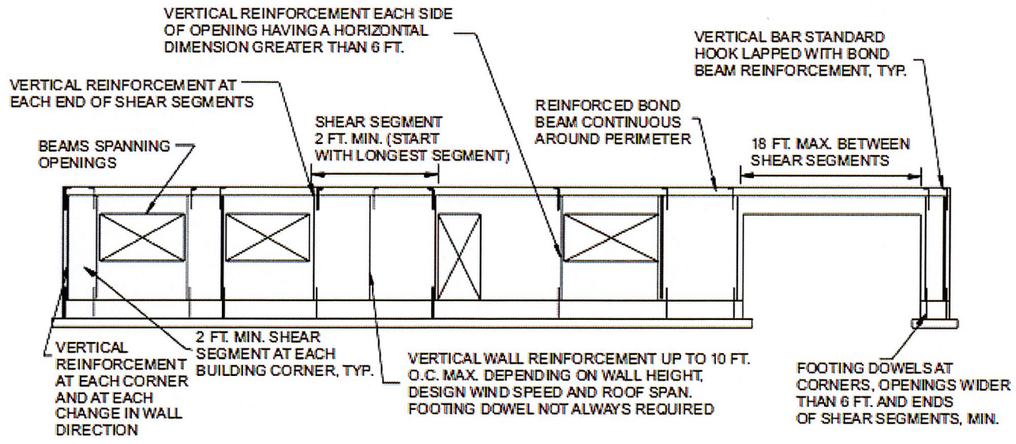
Top view

DETAIL C



Section A-A





KINGS GATE PARK
RESTROOM AND PAVILION

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DETAILS

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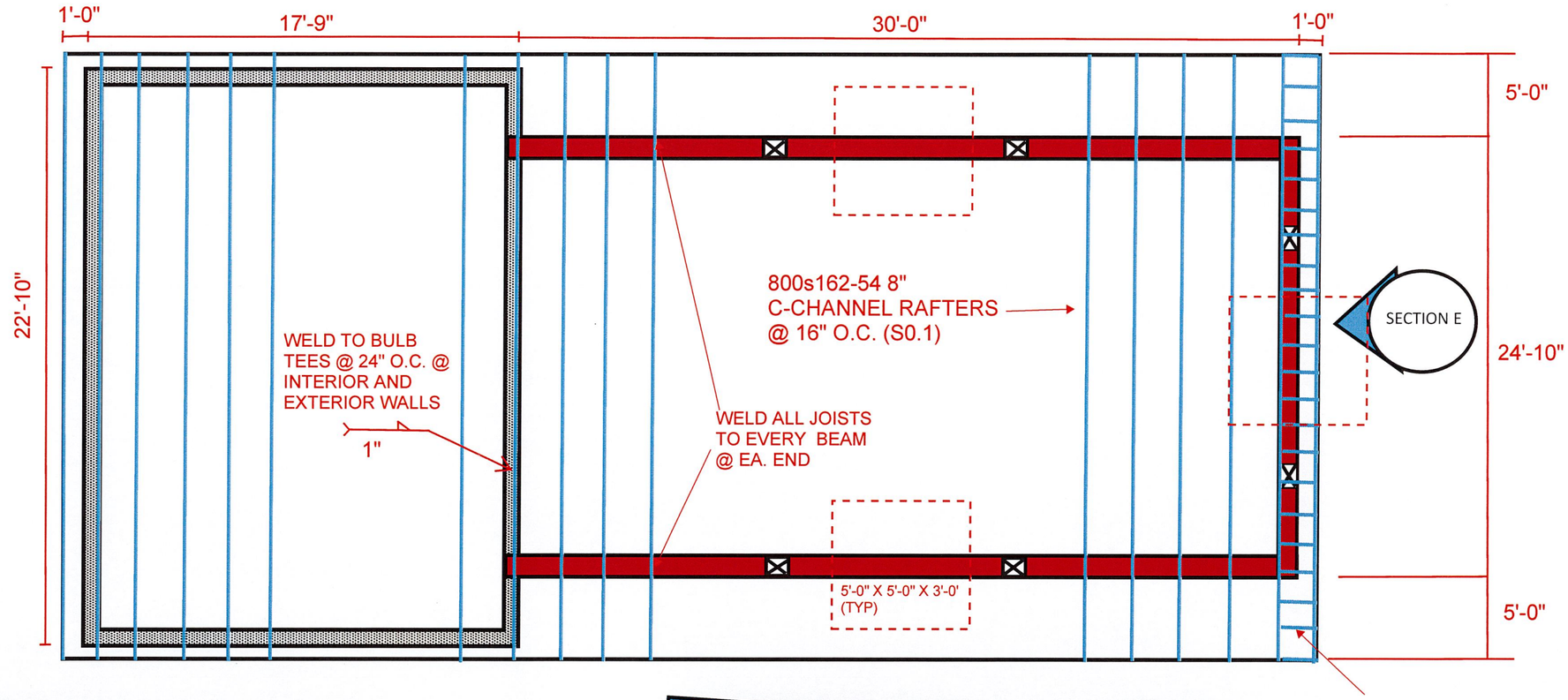
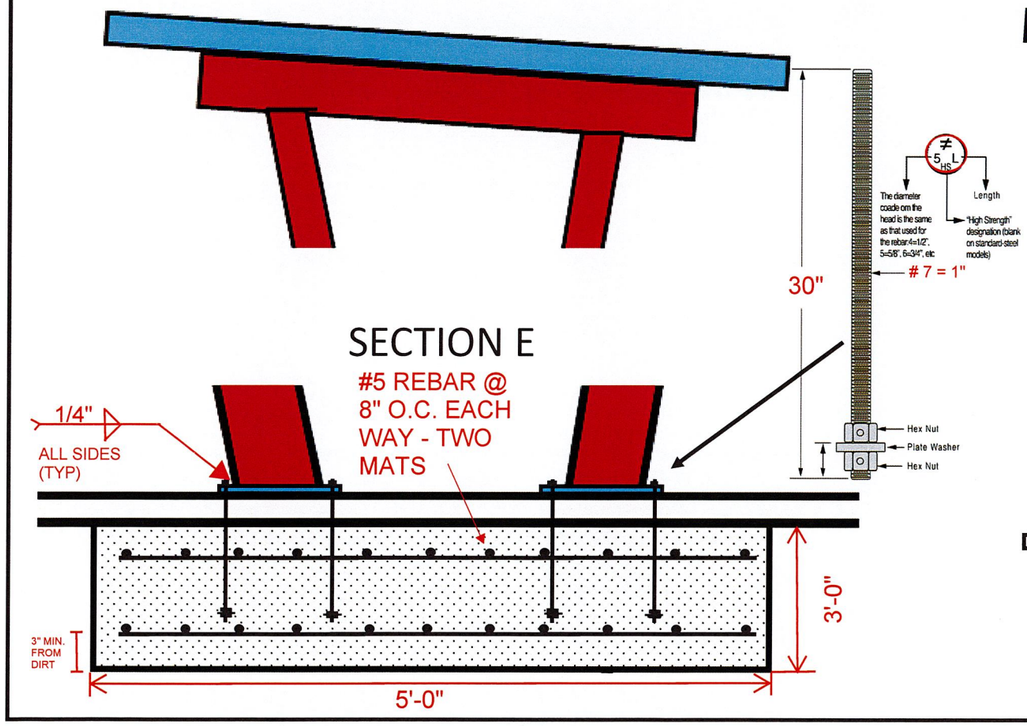
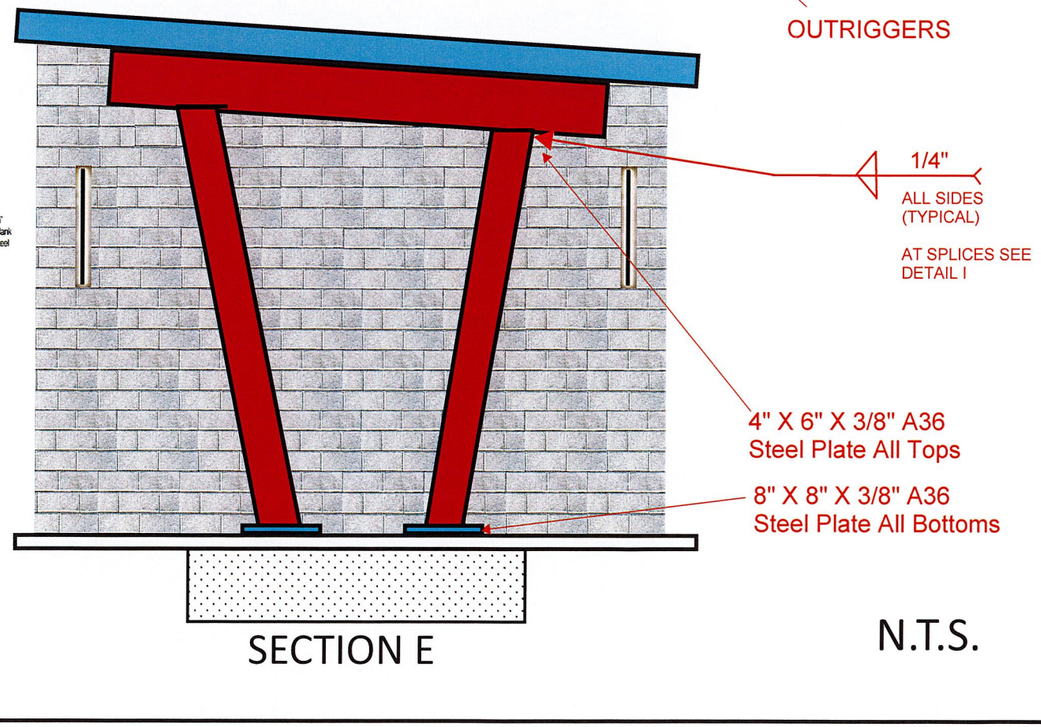
CITY OF WILLOW PARK

STRUCTURAL S2







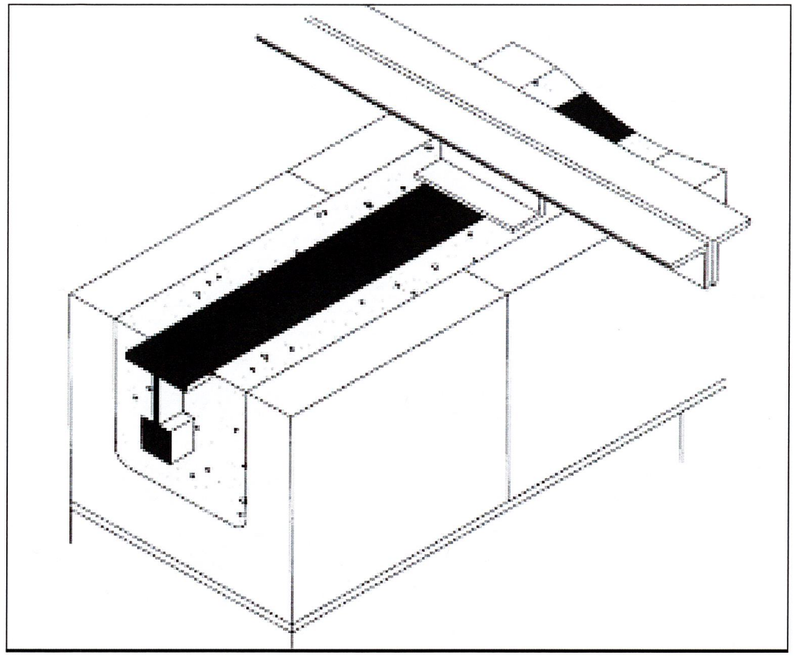
N.T.S.

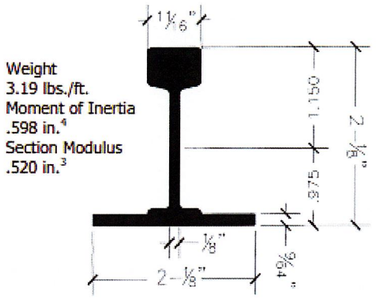
KINGS GATE PARK
RESTROOM AND PAVIL-

ROOF AND SUPPORT DETAILS

DRAFT 4-29-25
CITY OF WILLOW PARK
KINGS GATE PARK

STRUCTURAL S3





Weight
3.19 lbs./ft.
Moment of Inertia
.598 in.^{4}
Section Modulus
.520 in.^{3}

#218 Bulb Tees

High Strength Structural Subpurlins & Bond Beams

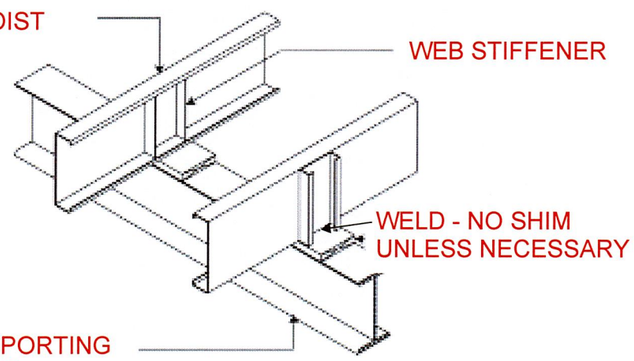
Bulb Tees are high strength, lightweight, steel sections for use as structural subpurlins in specialty roof decks such as Tectum Wood Fiber Decks, Poured Gypsum Decks and Span-Rock Gypsum Plank Decks. Bulb Tees also make excellent bond beams for anchoring structural members, providing a continuous steel strip for attachment and reinforcement.

Total Safe Uniform Load - psf

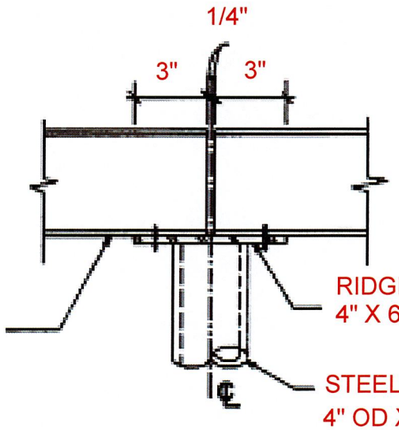
	Span									
	7'0"	7'6"	8'0"	8'6"	9'0"	9'6"	10'0"	10'6"	11'0"	Max. Eave Overhang 4'10"
#218	119	103	91	80	72	64	58	52	48	

Note: Above loads are based on a three span condition, 32 5/8" tee spacing. Design stress as given in the " Specification and Design Properties" table below, are for the bulb tee acting alone. That is, they ignore any contribution to flexural strength from the deck material. Capacities may be adjusted for bulb tee spacing other than 32 5/8" as follows: for 24 5/8" spacing, multiply allowable total safe uniform load by a factor of 1.32; for 42 5/8" spacing, multiply by .77; for 48 5/8" spacing, multiply by .67. Capacities may be adjusted for different support configurations as follows; for two span condition, multiply allowable total safe uniform load by 1.13, for a single span condition, multiply by .64. Maximum eave overhang has been calculated based on a uniform load of 45 psf only. If blocking, gutters, angles, soffits, etc., are to be suspended from the end of an overhang, the effect of these additional superimposed loads should be calculated separately. All total safe uniform loads given above are calculated on the basis of allowable flexural stress only, and ignore deflection. The designer/specifier is urged to check the theoretical deflection of any section, under the loads, and support conditions which are expected to be encountered.

DETAIL F



DETAIL G



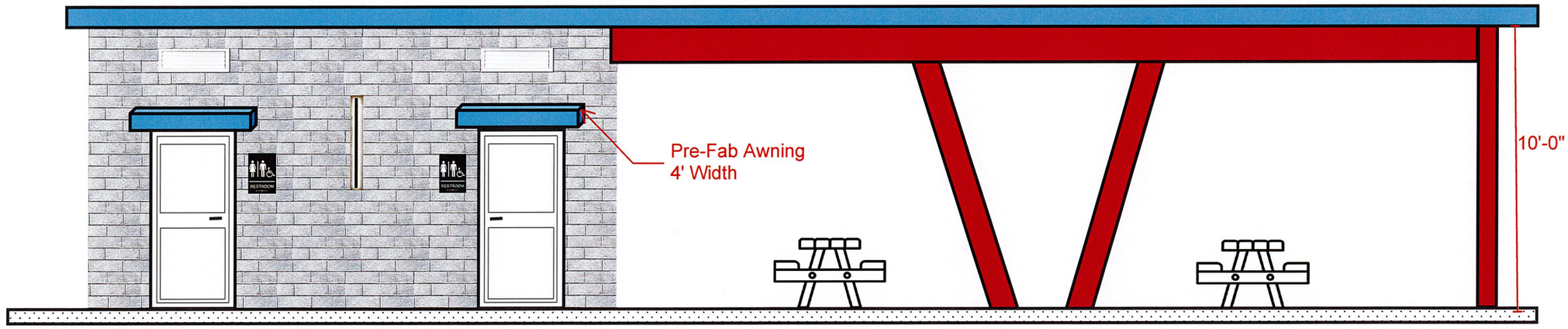
DETAIL I

KINGS GATE PARK
RESTROOM AND PAVIL-

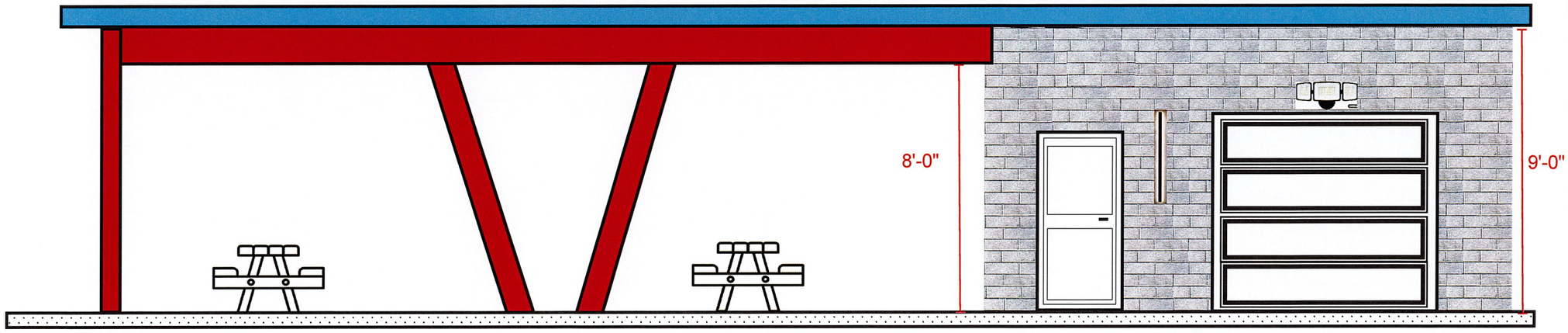
DETAILS

DRAFT 4-29-25
CITY OF WILLOW PARK
KINGS GATE PARK

STRUCTURAL S4



SOUTH



NORTH

J

N.T.S.

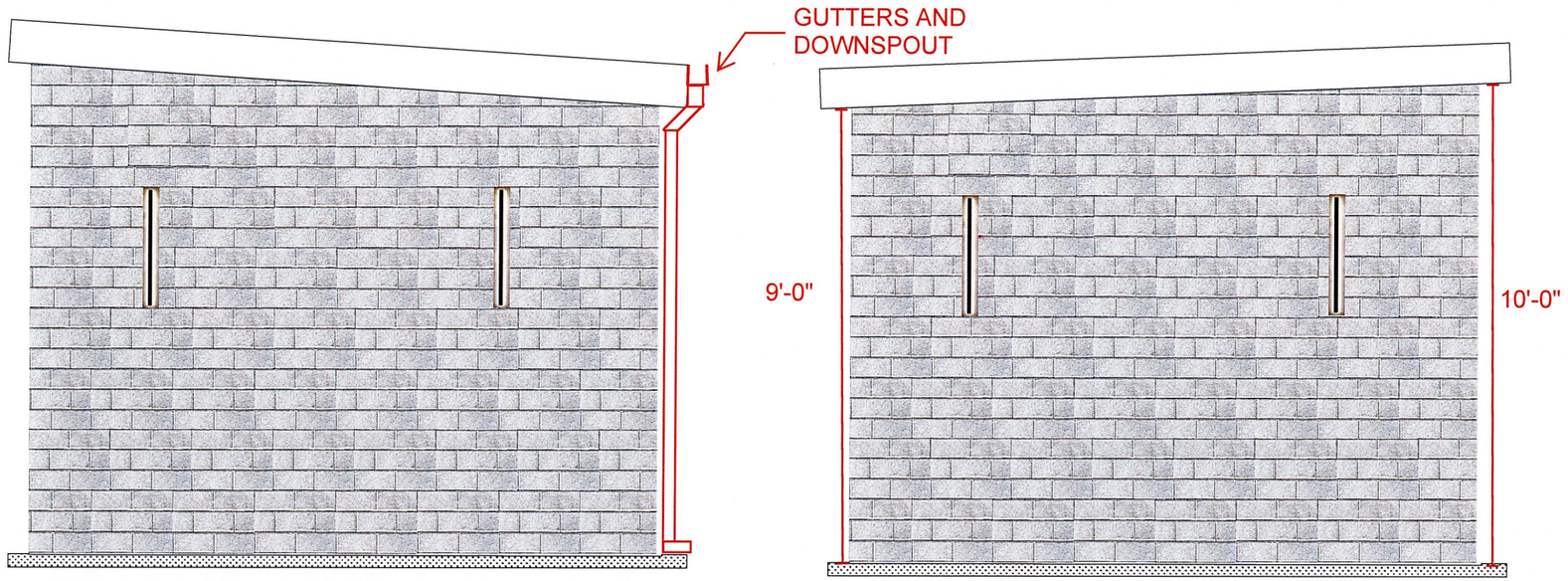
KINGS GATE PARK
RESTROOM AND PAVILION

NORTH AND SOUTH
ELEVATIONS

DRAFT 4-29-25

CITY OF WILLOW PARK
KINGS GATE PARK

STRUCTURAL S5

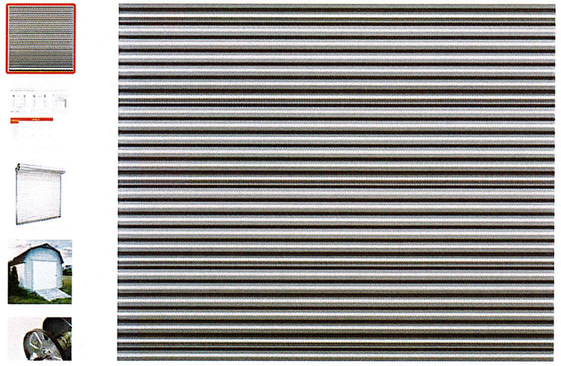


EAST ELEVATION

WEST ELEVATION

Roll-Up Collection 10 ft. x 8 ft. Non-Insulated Silhouette Gray Garage Door without Windows

★★★★★ (1) Questions & Answers (31)



$898.00

$75.00/mo** suggested payments with 12 months** financing Apply Now

Garage Door Color: **Silhouette Gray**

Garage Door Size: **10 ft x 8 ft**

4 ft x 7 ft | 6 ft x 7 ft | 8 ft x 7 ft | 8 ft x 8 ft | 9 ft x 7 ft | 9 ft x 8 ft | 9 ft x 9 ft | 10 ft x 7 ft | **10 ft x 8 ft** | 10 ft x 10 ft

Pickup at Weatherford — Delivering to 76086

Ship to Store
Jun 9 - Jun 10
488 available
FREE

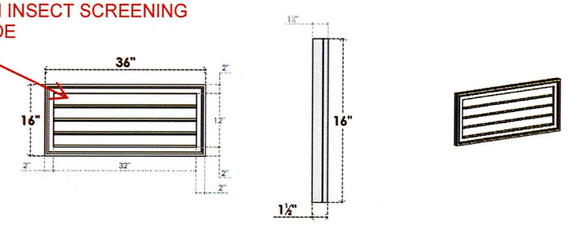
Delivery
Unavailable

DETAIL J

GVPVE36X1602SF

36"W X 16"H RECTANGLE SURFACE MOUNT PVC GABLE VENT: FUNCTIONAL, W/ 2"W X 1-1/2"P BRICKMOULD FRAME

WITH INSECT SCREENING INSIDE



FRONT SIDE

VENTING AREA: 24 SQ IN
LOUVER HEIGHT: 3"
LOUVER QTY: 4

EKENA MILLWORK
2300 WEST MAIN ST.
CLARKSVILLE, TX 75426
TOLL FREE: 866-607-0453
WWW.EKENAMILLWORK.COM

NOTES
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DRAWING MAY NOT BE TO SCALE.
3. THIS DRAWING IS INTENDED FOR DESIGN AND PLANNING PURPOSES ONLY.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. ARCHITECTURAL GRADE PVC PRODUCTS ARE MADE FROM EXPANDED CELLULAR PVC AND COME NATURALLY WHITE BUT MAY BE PAINTED

Generated Date : 08/19/2022

DETAIL K

N.T.S.

KINGS GATE PARK
RESTROOM AND PAVILION

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CITY OF WILLOW PARK
KINGS GATE PARK

STRUCTURAL S6