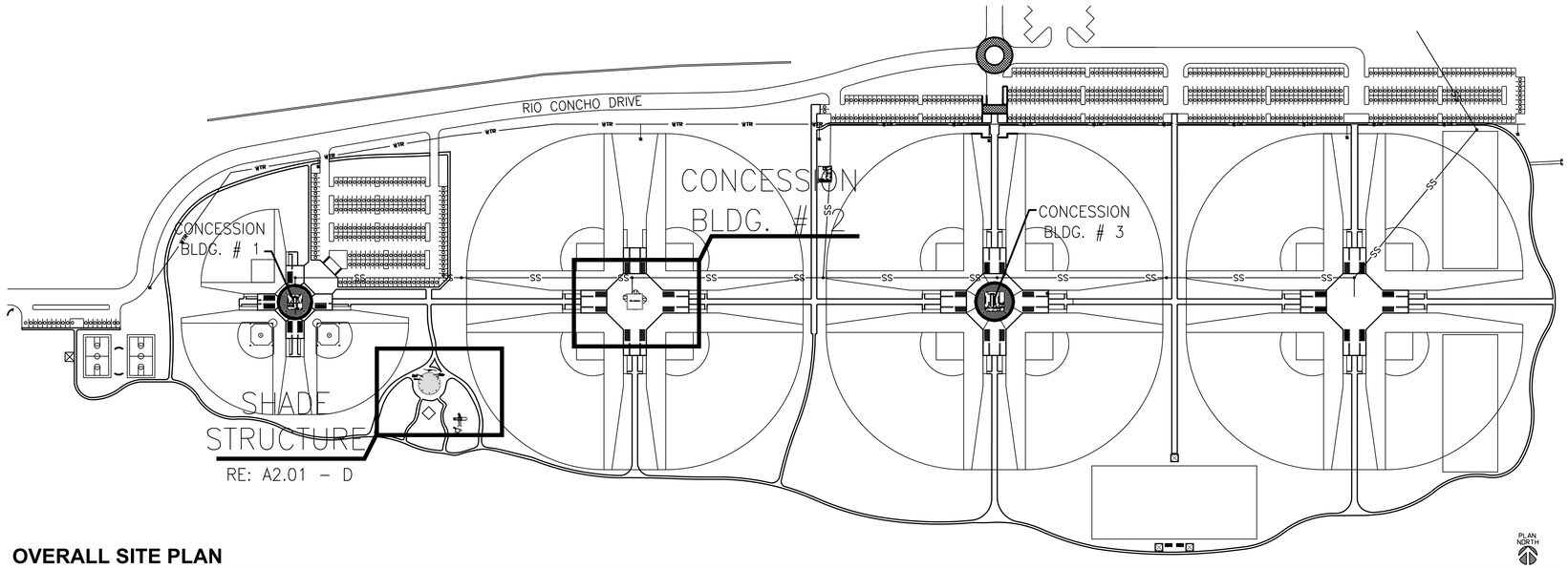
CITY OF SAN ANGELO

RIO CONCHO SPORTS COMPLEX

CONCESSION BUILDING #2

SAN ANGELO, TEXAS



OVERALL SITE PLAN

PROJECT GENERAL NOTES:

1. THE CONTRACTOR IS TO COORDINATE SECURITY MEASURES WITH OWNER BEFORE CONSTRUCTION STARTS. PROVIDE AND INSTALL SECURITY BARRIERS TO PROTECT PUBLIC FROM ENTERING PROJECT WORK AREA AS REQUIRED.
2. THE CONTRACTOR SHALL REVIEW AND COORDINATE REQUIRED STAGING AREA FOR THIS PROJECT WITH THE OWNER'S MAINTENANCE DEPARTMENT.
3. THE CONTRACTOR SHALL CLEAN THE WORK AND STAGING AREAS AT THE END OF EACH WORK DAY. ALL DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE AND JOB CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE SUBMITTING BID.
5. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PROTECT EXISTING BUILDINGS AND EQUIPMENT. EQUIPMENT SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL JOB VERIFY ACTUAL LOCATIONS OF UTILITY LINES AND SERVICES ON THE JOB SITE. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ENGINEERS COORDINATION OF UTILITY INSTALLATION.
7. THE CONTRACTOR SHALL SECURE AND COMPLY WITH PERMITS FROM THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), ON THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) PROGRAM. THIS PERMIT ALSO COVERS STORM WATER DISCHARGES. THE SOURCE FOR THIS INFORMATION WAS OBTAINED AT TCEQ WEBSITE - TPDES CONSTRUCTION STORM WATER PERMITS AT WWW.THRCC.STATE.TX.US/PERMITTING/WATERPERM/WWPERM/CONSTRUCT.HTML

THE FOLLOWING ARE STEPS SET FORTH BY THE STATE:
A. OBTAIN A COPY OF THE TCEQ CGP (TPDES PERMIT NO. TXR150000).
B. DEVELOP AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPP).
C. BEFORE CONSTRUCTION BEGINS, COMPLETE AND POST A SITE NOTICE.

PLUMBING REQUIREMENTS FOR CONCESSION BUILDING #2 AT THE RIO CONCHO SPORTS COMPLEX - COSA

2015 INTERNATIONAL BUILDING CODE

TABLE 2902.1 MINIMUM NUMBER OF PLUMBING FIXTURES — **ASSEMBLY GROUP – A2 OCCUPANCY**

AREA 'A2' 2,061 SQ. FT. / 15 = 138 PERSONS
AREA 'B' 230 SQ. FT. / 100 = 2 PERSONS

138 PERSONS AT AREA 'A2' AND 2 PERSONS AT ACCESSORY AREA 'B' = 140 TOTAL PERSONS IN THIS BUILDING
140 TOTAL PERSONS DIVIDED BY 2 = 70 MALE AND 70 FEMALE OCCUPANTS OF THIS BUILDING

MALE PLUMBING FIXTURES REQUIRED	FEMALE PLUMBING FIXTURES REQUIRED
70 MALES / 40 = 2 WATER CLOSETS REQUIRED 70 MALES / 75 = 1 LAVATORIES REQUIRED	70 FEMALES / 40 = 2 WATER CLOSETS REQUIRED 70 FEMALES / 75 = 1 LAVATORIES REQUIRED
MALE PLUMBING FIXTURES PROVIDED	**FEMALE PLUMBING FIXTURES PROVIDED**
WATER CLOSETS = 3 MALE WATER CLOSETS ARE PROVIDED URINALS = 2 MALE URINALS ARE PROVIDED TOTAL MALE WATER CLOSET FIXTURES PROVIDED = 3 LAVATORIES = 2 MALE LAVATORIES ARE PROVIDED	WATER CLOSETS = 3 FEMALE WATER CLOSETS ARE PROVIDED LAVATORIES = 2 FEMALE LAVATORIES ARE PROVIDED

DRINKING FOUNTAINS

1 DRINKING FOUNTAIN IS REQUIRED.
WE HAVE PROVIDED TWO (HI-LOW) DRINKING FOUNTAINS.

SERVICE SINK PLUMBING FIXTURES

1 SERVICE SINK IS REQUIRED.
WE HAVE PROVIDED ONE SERVICE SINK.

GENERAL INFORMATION: COMPLEX #2 IS AN ADDITION TO THE RIO CONCHO SPORTS COMPLEX FOR THE CITY OF SAN ANGELO, TEXAS. THIS BUILDING HAS AN OPEN-COVERED DINING AREA AROUND THE PERIMETER. THE APPROXIMATE GROSS SQUARE FOOTAGE IS 3,217 SQUARE FEET AND THE BUILDING IS TO BE CONSTRUCTED WITH EXTERIOR AND INTERIOR CONCRETE MASONRY UNIT WALLS. THIS STRUCTURE WILL CONTAIN A FIRE SPRINKLER SYSTEM. THE ROOF WILL BE FLAT WITH A SINGLE PLY ROOFING SYSTEM. THERE IS A 2,061 SQUARE FOOT PERIMETER AWNING. THIS FACILITY WILL BE SLAB ON GRADE CONSTRUCTION.

SECTION 304.1: THE MAIN OCCUPANCY FOR THIS FACILITY IS A2, ASSEMBLY GROUP. THIS IS AN OUTDOOR DINING FACILITY WITH FOOD PROCESSING BUILDING AT A BASEBALL FIELD - THUS A2 OCCUPANCY.

TABLE 504.3 BLDG HEIGHT IN FEET ABOVE GRADE PLANE:
OCCUPANCY = B - SPRINKLERED / BUILDING TYPE = 5B - PER CODE = A MAXIMUM OF 60 FEET ABOVE GRADE PLANE. THIS FACILITY HAS AN ACTUAL HEIGHT OF 32 FEET ABOVE GRADE PLANE.

TABLE 504.4: NUMBER OF STORIES ABOVE GRADE PLANE:
OCCUPANCY = B - SPRINKLERED / BUILDING TYPE = 5B - PER CODE = A MAXIMUM OF 3 STORIES ABOVE GRADE PLANE. THIS FACILITY HAS AN ACTUAL STORY HEIGHT OF ONE SINGLE STORY ABOVE GRADE PLAN.

TABLE 506.2: ALLOWABLE AREA FACTOR IN SQUARE FEET:
OCCUPANCY = B - SPRINKLERED / BUILDING TYPE = 5B - PER CODE = A MAXIMUM 24,000 SQUARE FEET IS ALLOWABLE. THIS FACILITY HAS A ACTUAL HEATED AREA OF 1,156 SQUARE FEET OF HEATED AREA WITH 2,061 FEET OF COVERED PORCHES FOR A TOTAL OF 3,217 SQUARE FEET OF ROOFED AREA.

SECTION 508.2.4: SEPARATION OF OCCUPANCIES:
NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY IN A "B" OCCUPANCY.

TABLE 508.4: REQUIRE SEPARATION OF OCCUPANCIES IN HOURS:
OCCUPANCY = A2 - SPRINKLERED / BUILDING TYPE = 5B - PER CODE = THERE IS NO SEPARATION REQUIRED BETWEEN AN OCCUPANCY OF "A2" GROUP ASSEMBLY AND "B" FOOD PROCESSING IN THIS FACILITY. "B" IS AN ACCESSORY SPACE LESS THAN 10% OF "A2".

SECTIONS 601 AND 602 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS):
ALL VALUES ARE BASED ON A "B" OCCUPANCY/SPRINKLERED BUILDING FOR TYPE 5B CONSTRUCTION:

	REQUIRED FIRE RATING	PROVIDED FIRE RATING
PRIMARY STRUCTURAL FRAME	= 0 HOURS	0 HOURS
EXTERIOR BEARING WALLS	= 0 HOURS	0 HOURS
INTERIOR BEARING WALLS	= 0 HOURS	0 HOURS
EXTERIOR NONBEARING WALLS AND PARTITIONS	= 0 HOURS	0 HOURS (DISTANCE IS GREATER THAN 60' BETWEEN BLDG'S. AND THUS THE IMAGINARY LINE BETWEEN THE BUILDINGS IS GREATER THAN 30')
* NON-BEARING INTERIOR WALLS AND PARTITIONS	= 0 HOURS	0 HOURS
* ROOF CONSTRUCTION AND SECONDARY MEMBERS	= 0 HOURS	0 HOURS

SECTION 602.5: TYPE V CONSTRUCTION:
THIS BUILDING'S AREA AND HEIGHT ENABLES THIS BUILDING TO BE A TYPE VB CONSTRUCTION.

SECTION 707.3.9: FIRE BARRIERS - SEPARATE OCCUPANCIES:
OCCUPANCY = A2 - SPRINKLERED / BUILDING TYPE = 5B - PER CODE = THERE IS NO SEPARATION REQUIRED BETWEEN AN OCCUPANCY OF "A2" GROUP ASSEMBLY AND "B" FOOD PROCESSING IN THIS FACILITY. "B" IS AN ACCESSORY SPACE LESS THAN 10% OF "A2".

SECTION 707.5: FIRE BARRIERS - CONTINUITY:
FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION BELOW TO THE UNDERSIDE OF THE ROOF SHEATHING. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACES, SUCH AS THOSE ABOVE SUSPENDED CEILING SYSTEMS. OPENING PROTECTION IS REQUIRED FOR ALL PENETRATIONS THROUGH THESE FIRE BARRIER ASSEMBLIES.

SECTION 707.5.1: FIRE BARRIERS - SUPPORTING CONSTRUCTION:
EXCEPTION #2: SUPPORTING CONSTRUCTION FOR 1-HOUR FIRE BARRIERS REQUIRED BY TABLE 509 IN BUILDING TYPE VB CONSTRUCTION IS NOT REQUIRED TO BE FIRE RESISTANCE RATED UNLESS REQUIRED BY OTHER SECTIONS OF THIS CODE. THERE IS NO REQUIREMENT TO FIRE RATE SUPPORTING STRUCTURE OF THESE FIRE BARRIERS.

SECTION 707.6: FIRE BARRIERS - OPENINGS IN FIRE BARRIERS:
EXCEPTION #1: OPENINGS IN FIRE BARRIERS SHALL NOT BE LIMITED TO 156 SQUARE FEET WHERE THE ADJOINING FLOOR AREA IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.
EXCEPTION #6: FIREBLOCKING OR DRAFTSTOPPING IS NOT REQUIRED AT THE PARTITION LINE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

TABLE 716.5: OPENING FIRE PROTECTION ASSEMBLIES, RATING AND MARKINGS:
"OTHER FIRE BARRIERS": WITH A ONE HOUR RATING ON THE FIRE BARRIER. THE GLAZING IS REQUIRED TO CARRY A 3/4 HOUR (45 MINUTES) FIRE-RATING WITH A GLAZING MARKING OF D-H. SIDELIGHTS AND TRANSOM ASSEMBLIES ARE REQUIRED TO CARRY A 3/4 HOUR (45 MINUTES) OF THESE FIRE BARRIERS.

SECTION 717.5.2: FIRE BARRIERS - DUCTS AND AIR TRANSFER OPENINGS IN FIRE BARRIERS::
THIS FACILITY IS CURRENTLY CONSIDERED A "B" OCCUPANCY - AS THIS IS A COLLEGE LEVEL INSTRUCTIONAL UNIVERSITY. THE INSTRUCTIONAL AREAS INSIDE THIS FACILITY ARE THUS CONSIDERED "B" OCCUPANCY. THE INSTRUCTIONAL PROGRAMMING FOR THESE SPACES IS TO HAVE SOME TESTING OF CONSTRUCTION MATERIALS RELATING TO THE CIVIL ENGINEERING PROGRAM. THERE ARE SOME OF THESE INSTRUCTIONAL AREAS WITHIN THIS FACILITY THAT LEND THEMSELVES TO CONTAINING ACTIVITIES (SOME NOW AND SOME IN FUTURE PROGRAMMING OF THESE SPACES) THAT POSE AN ELEVATED FIRE HAZARD. THUS, ALL OF THE PERIMETER WALLS AROUND EACH OF THE INSTRUCTIONAL SPACES WILL BE ONE HOUR FIRE BARRIERS AND EXTEND TO THE BOTTOM OF THE ROOF DECK. ANY PENETRATIONS THROUGH THESE FIRE BARRIERS WILL BE EQUIPPED WITH FIRE DAMPERS AND OR FIRE STOP MATERIALS AS REQUIRED. WITH THIS SAID, EXCEPTION #3 DOES NOT APPLY IN THIS FACILITY . THIS ONE HOUR FIRE RATING ALSO APPLYS TO THE CORRIDOR WALLS AND THUS AND OPENINGS AND PENETRATIONS WILL BE PROTECTED AS NOTED ABOVE.

SECTION 718.4.3 - DRAFTSTOPPING:
DRAFTSTOPPING: BUILDING ENCLOSED ATTIC IS LESS THAN 3,000 SQ. FT. DRAFTSTOPPING NOT REQUIRED IN BUILDING CONTAINING AUTOMATIC SPRINKLERS.

SECTION 718 - CONCEALED SPACES:
THERE IS NO COMBUSTIBLE MATERIALS IN THE CONCEALED SPACES OF THIS FACILITY. THIS FACILITY IS CONSTRUCTED OF A STEEL PRIMARY FRAME WITH GYPSUM BOARD AND METAL STUDS PARTITIONS ON THE INTERIOR. THERE IS A SMALL AREA WHERE CMU BLOCK IS USED TO CONSTRUCT THE WALLS OF A SPACE.

TABLE 803.11 - INTERIOR WALL AND CEILING FINISHES REQUIREMENT BY OCCUPANCY:
THIS IS A SPRINKLERED BUILDING WITH AN OCCUPANCY OF "B":
CORRIDORS = "C" CLASS FINISH
ROOMS = "C" CLASS FINISH

SECTION 903.2.1.2 GROUP A2 NFPA 13 SPRINKLER
THE FIRE SPRINKLER SYSTEM INSTALLED IN THIS FACILITY WILL COMPLY WITH NFPA 13 AND THIS SECTION.

SECTION 906 PORTABLE FIRE EXTINGUISHERS:
PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED AND INSTALLED IN THIS FACILITY PER THIS SECTION OF THE CODE AS WELL AS IFC 2015.
FIRE EXTINGUISHERS ARE TO NOT EXCEED 75' OF TRAVEL DISTANCE TO REACH AN EXTINGUISHER. EXTINGUISHERS ARE TO MEET 10-B CLASSIFICATION AND BE PROVIDED AND INSTALLED PER 1 EXTINGUISHER (MINIMUM) TO EVERY 1,500 SQUARE FEET OF FLOOR SPACE. 8 FIRE EXTINGUISHERS ARE PROVIDED IN THIS BUILDING.

SECTION 907 FIRE ALARM:
A FIRE ALARM SYSTEM WILL BE PROVIDED AS NOTED IN THE MEP SHEETS OF THIS DRAWING SET.

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT:
THIS BUILDING IS A COLLEGE LEVEL INSTRUCTIONAL FACILITY TRAINING STUDENTS IN THE FIELD OF CIVIL ENGINEERING. THE CODE WILL ALLOW FOR A "B" CLASSIFICATION FOR THIS FACILITY UNDER NORMAL CIRCUMSTANTIATES. HOWEVER, SINCE THERE IS THE USE OF INDUSTRIAL EQUIPMENT BEING USED IN MORE OF A SHOP SETTING, WE WILL USE "E" EDUCATION - VOCATIONAL ROOM AREAS FOR OUR OCCUPANCY CALCULATIONS IN THE CLASSROOM AREAS:

EXHIBITION/LOUNGE - RM. 101 = 704 S.F. / 50 S.F. =	15 PERSONS
MECHANICAL ENGINEERING - RM. 106 = 953 S.F. / 50 S.F. =	20 PERSONS
STUDENT PROJECTS - RM. 110 = 969 S.F. / 50 S.F. =	20 PERSONS
CONCRETE AND DIRTY GEOTECH - RM. 111 = 1,112 S.F. / 50 S.F. =	23 PERSONS
CLEAN GEOTECH - RM. 113 = 963 S.F. / 50 S.F. =	20 PERSONS
HYDRAULICS - RM. 116 = 1,328 S.F. / 50 S.F. =	27 PERSONS
TOTAL OCCUPANCY FOR THIS BUILDING =	**125 PERSONS**

SECTION 1005.3.2 OTHER EGRESS COMPONENTS:
125 PERSONS X .2" = 25 INCHES OF CLEARANCE REQUIRED AT EACH EGRESS OPENING. THIS BUILDING HAS 72 INCHES OF OPENING CLEARANCE AT EACH OF THE TWO EXTERIOR DOORS IN THE FACILITY.

TABLE 1006.2.1 SPACES WITH ONE EXIT ACCESS DOORWAY:
IN "B" OR "E" OCCUPANCIES AND WITH A MAXIMUM OCCUPANT LOAD OF 49 THE COMMON PATH OF TRAVEL FOR A FULLY SPRINKLERED BUILDING IS 75'.
THE LONGEST COMMON PATH OF TRAVEL DOES NOT EXCEED 60 FEET. ALL OF THE INSTRUCTIONAL ROOMS IN THIS FACILITY HAVE AN OCCUPANT LOAD WELL BELOW THE 49 AS NOTED IN THIS TABLE. THUS, THERE ARE NO AREAS THAT REQUIRE TWO MEANS OF EGRESS OUT OF THAT INSTRUCTIONAL SPACE.

TABLE 1006.3.1 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY:
THE TOTAL NUMBER OF OCCUPANTS IN THIS FACILITY IS CALCULATED AT 125 AND THUS IT REQUIRES A MINIMUM OF TWO EXITS. THERE ARE TWO MEANS OF EGRESS EXITS PROVIDED IN THIS FACILITY.

SECTION 1009 ACCESSIBLE MEANS OF EGRESS:
THIS FACILITY HAS TWO MEANS OF EGRESS AND BOTH OF THEM COMPLY AS ACCESSIBLE MEANS OF EGRESS.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:
IN A FULLY SPRINKLERED "B" OCCUPANCY BUILDING THE EXIT ACCESS TRAVEL DISTANCE IS 250 FEET. THE FURTHEST EXIT ACCESS TRAVEL DISTANCE IN THIS BUILDING IS 101 FEET.

SECTION 1020.4 DEAD ENDS:
IN GROUP ASSEMBLY B BUSINESS FACILITIES THAT ARE EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM, THE DEAD ENDS MUST NOT EXCEED 20 FEET. THERE ARE NO DEAD END CORRIDORS IN THIS FACILITY.

DRAWING INDEX:

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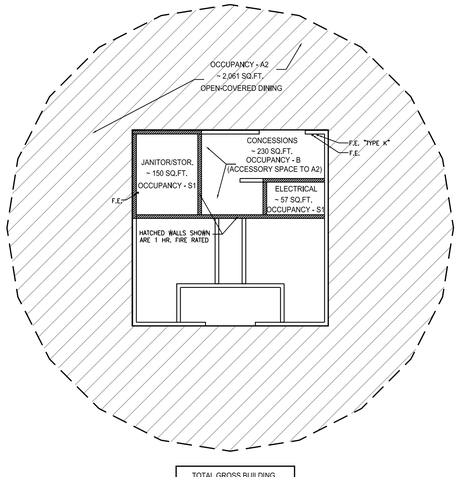

TOTAL GROSS BUILDING
~ 3,217 SQ.FT.
OCCUPANCY - B, S1, A2

FIRE PROTECTION PLAN

PLAN NORTH

Revised

CIVIL ENGINEER
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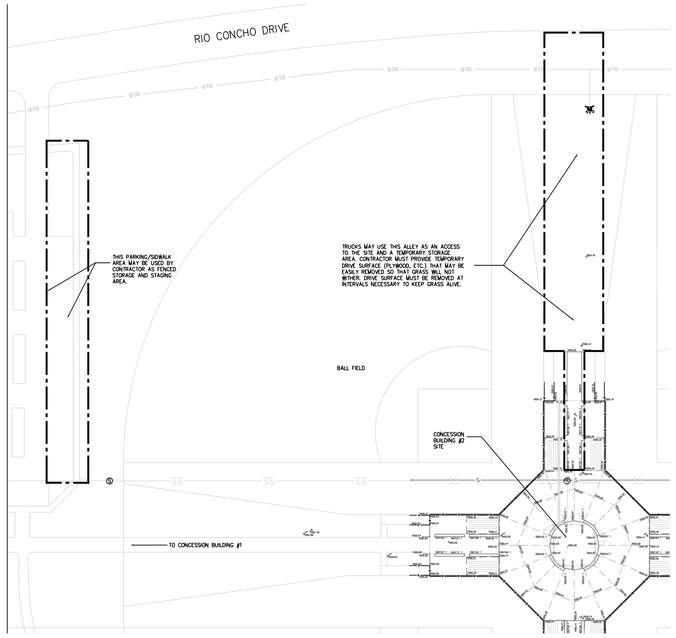
09-07-16
FOR PERMIT & CONSTRUCTION

CITY OF SAN ANGELO
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

Project No. 250-02-0516

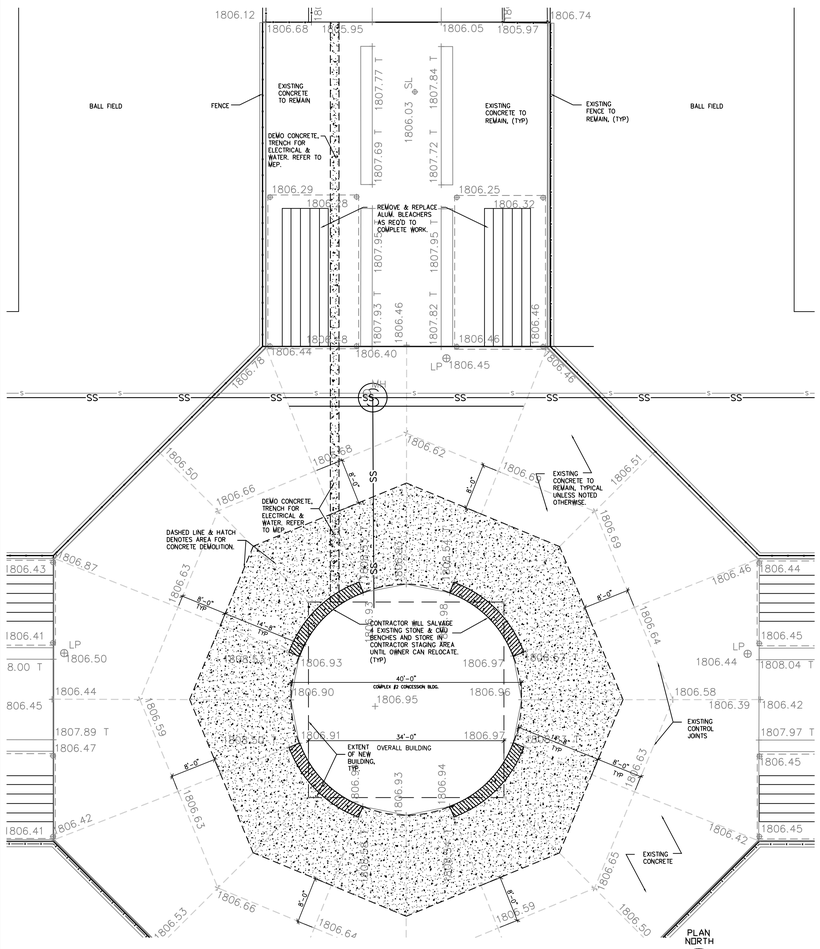
Date September 07, 2016

Sheet Number
A0.0



C STAGING AREA SITE PLAN - COMPLEX # 2

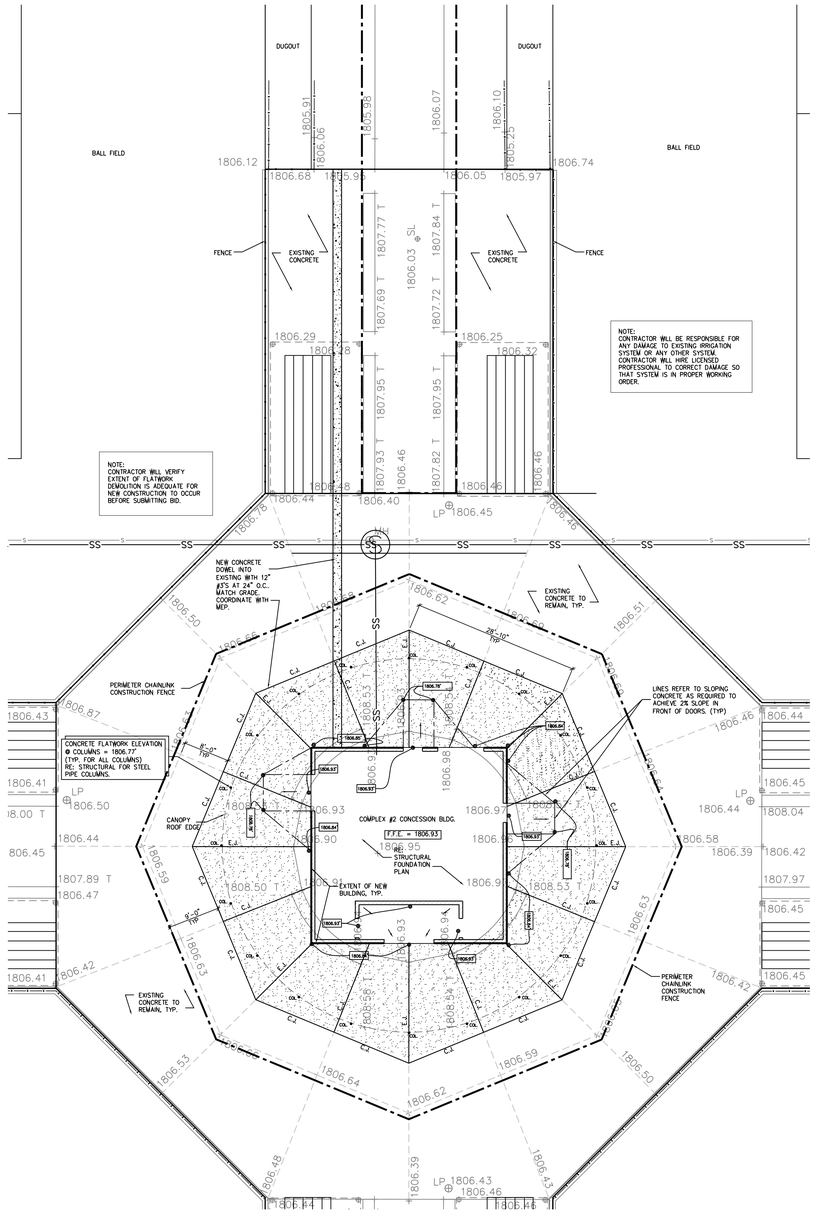
SCALE: 1"= 50'-0"



B DEMOLITION SITE PLAN - COMPLEX # 2

SCALE: 3/32" = 1'-0"

NOTE:
RECREATION ACTIVITIES WILL BE OCCURRING DURING THE CONSTRUCTION OF CONCESSION BUILDING #2. CONTRACTOR WILL PROVIDE EASE OF ACCESS FOR PEDESTRIANS FROM ONE FIELD COMPLEX TO ANOTHER ALONG MAIN EAST/WEST SIDEWALK CORRIDOR. CONTRACTOR WILL USE ALL SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE PLACE FOR FIELD COMPLEX USERS.



A SITE PLAN - COMPLEX # 2

SCALE: 3/32" = 1'-0"

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ROOM FINISH SCHEDULE

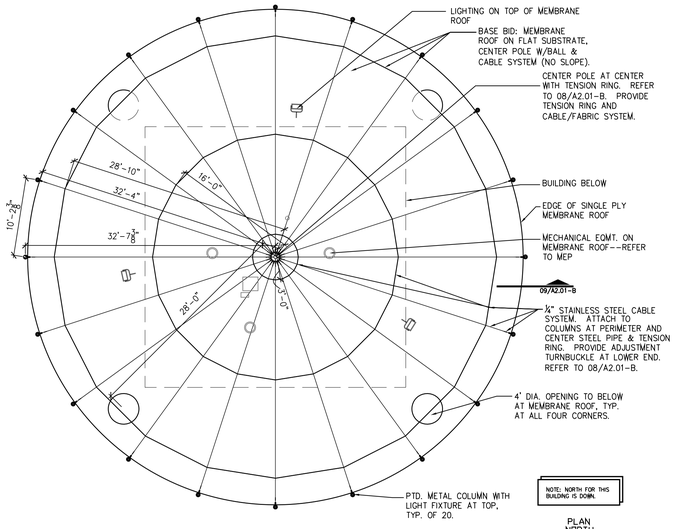
ROOM NO.	DESCRIPTION	FLOOR	BASE	WALLS N	WALLS E	WALLS S	WALLS W	CEILING	CLG. HT.	REMARKS
100	CONCESSIONS	10	20	30	30	30	30	41	8'-10"	
101	MEN'S RESTROOM	10	20	30	30	30	30	41	8'-10"	
102	RESTROOM VESTIBULE	10	20	30	30	30	30	41	8'-10"	
103	LADY'S RESTROOM	10	20	30	30	30	30	41	8'-10"	
104	GENERAL STORAGE / JANITOR	10	20	31	31	31	31	41	8'-10"	CERAMIC TILE 4' A.F.F. AT MOP SINK
105	ELECTRICAL	10	20	30	30	30	30	41	8'-10"	
106	PLUMBING CHASE	11	20	30	30	30	30	40	–	PLUMBING CHASE

SCHEDULE OF FINISHES

	FLOOR		BASE		WALL		CEILING	
10	SEALED CONCRETE (NON-SLIP)	20	NO BASE	30	PAINTED CMU	40	EXPOSED STRUCTURE	
11	UNFINISHED CONCRETE	21		31	EXPOSED UNFINISHED CMU	41	PRE FINISHED METAL CEILING	
12		22		32	CERAMIC TILE 4' A.F.F.	42		
13				33		43		
14				34		44		
				35				

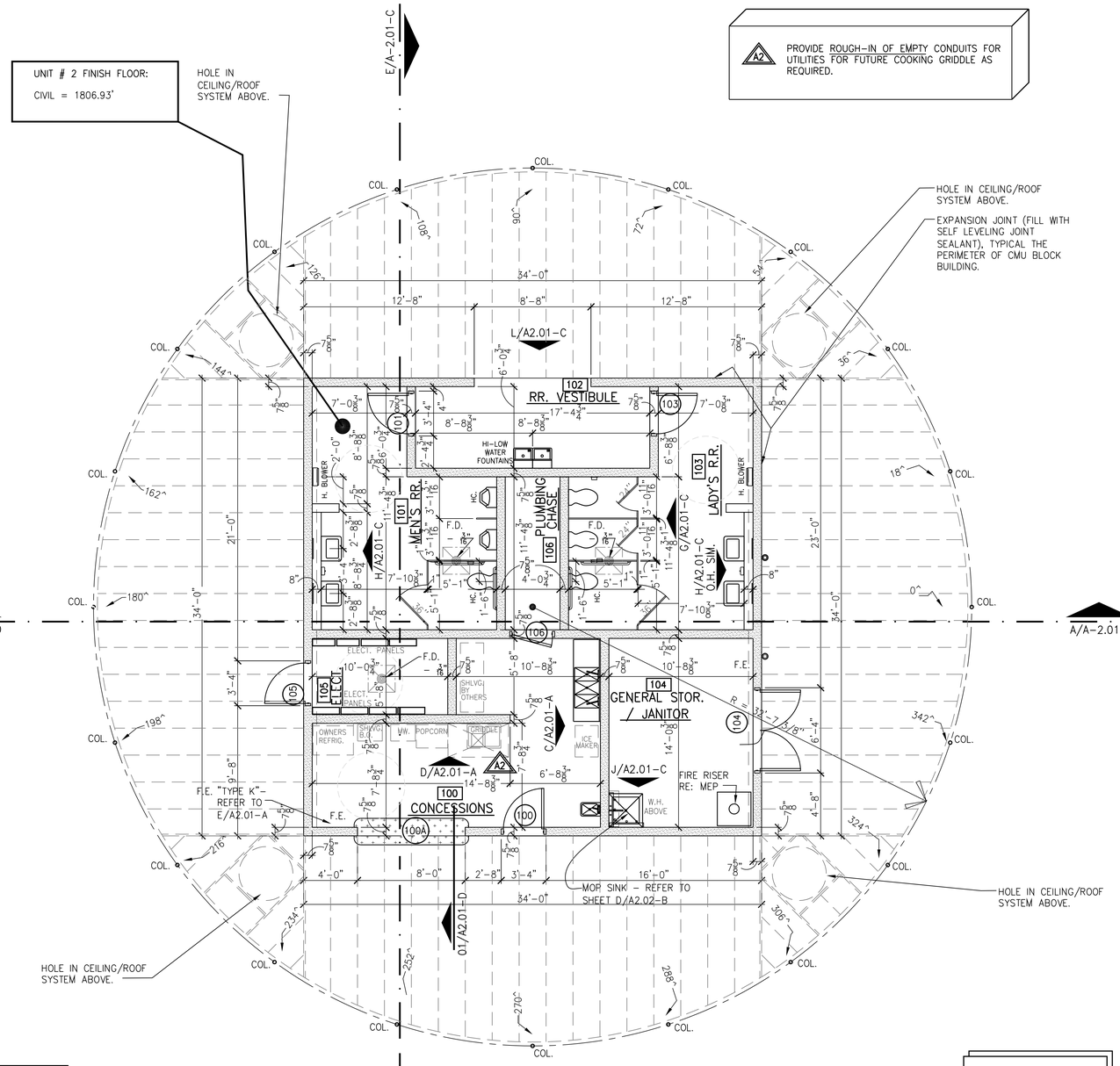
DOOR SCHEDULE

DOOR AND FRAME ELEVATIONS						FRAME DETAILS REF: SHT A2.01-B							REMARKS
DOOR NO.	SIZE	THICK	MAT'L	ELEV	LABEL	HEAD	JAMB	JAMB WIDTH	SILL	MAT'L	ELEV	LABEL	
100	3'-0" X 7'-0"	1 3/4"	H.M.	A01	–	01	02	6"	07	H.M.	A01	–	
100A	8'-0" X 4'-6"	–	AL.	A04	–	05	–	–	06	AL.	A04	–	ROLL-UP DOOR
101	3'-0" X 7'-0"	1 3/4"	H.M.	A01	–	03	02	6"	07	H.M.	A01	–	
103	3'-0" X 7'-0"	1 3/4"	H.M.	A01	–	03	02	6"	07	H.M.	A01	–	
104	2-3'-0" X 7'-0"	1 3/4"	H.M.	A02	–	03	02	6"	07	H.M.	A02	–	45 MIN. FIRE RATING
105	3'-0" X 7'-0"	1 3/4"	H.M.	A01	–	03	02	6"	07	H.M.	A01	–	45 MIN. FIRE RATING
106	3'-0" X 7'-0"	1 3/4"	H.M.	A03	–	01	02	6"	–	H.M.	A03	–	



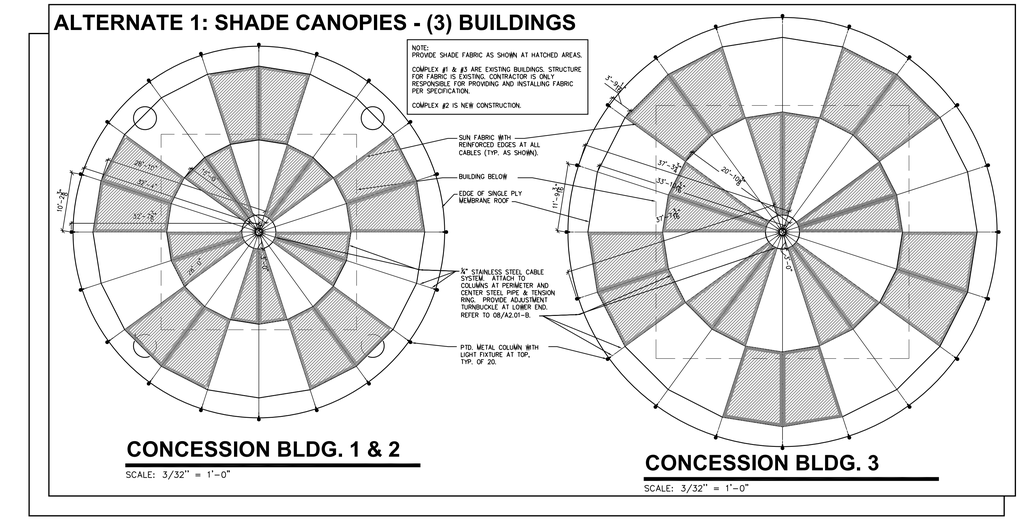
B UPPER AND LOWER ROOF PLAN - COMPLEX # 2

SCALE: 1/8" = 1'-0"



A FLOOR PLAN - COMPLEX # 2

SCALE: 3/16" = 1'-0"

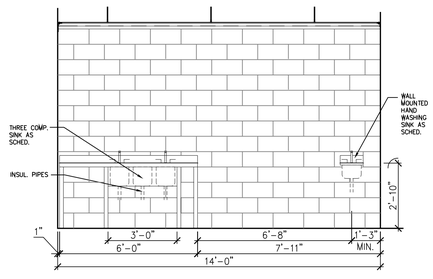


CONCESSION BLDG. 1 & 2

SCALE: 3/32" = 1'-0"

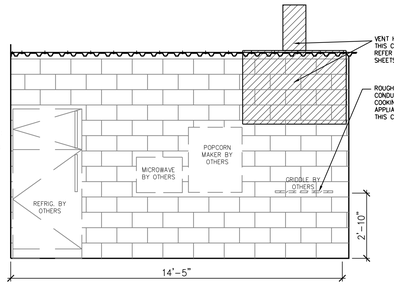
CONCESSION BLDG. 3

SCALE: 3/32" = 1'-0"



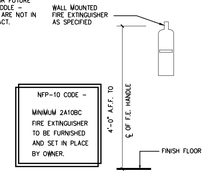
C CONCESSIONS -WEST

SCALE: 3/8" = 1'-0"



D CONCESSIONS -SOUTH

SCALE: 3/8" = 1'-0"



E FIRE EXTINGUISHER

SCALE: NO SCALE

Revised

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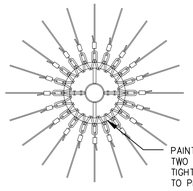
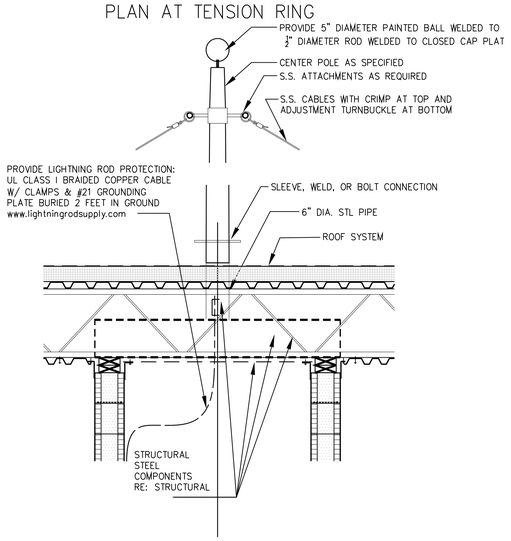
Sheet Number A2.01-A



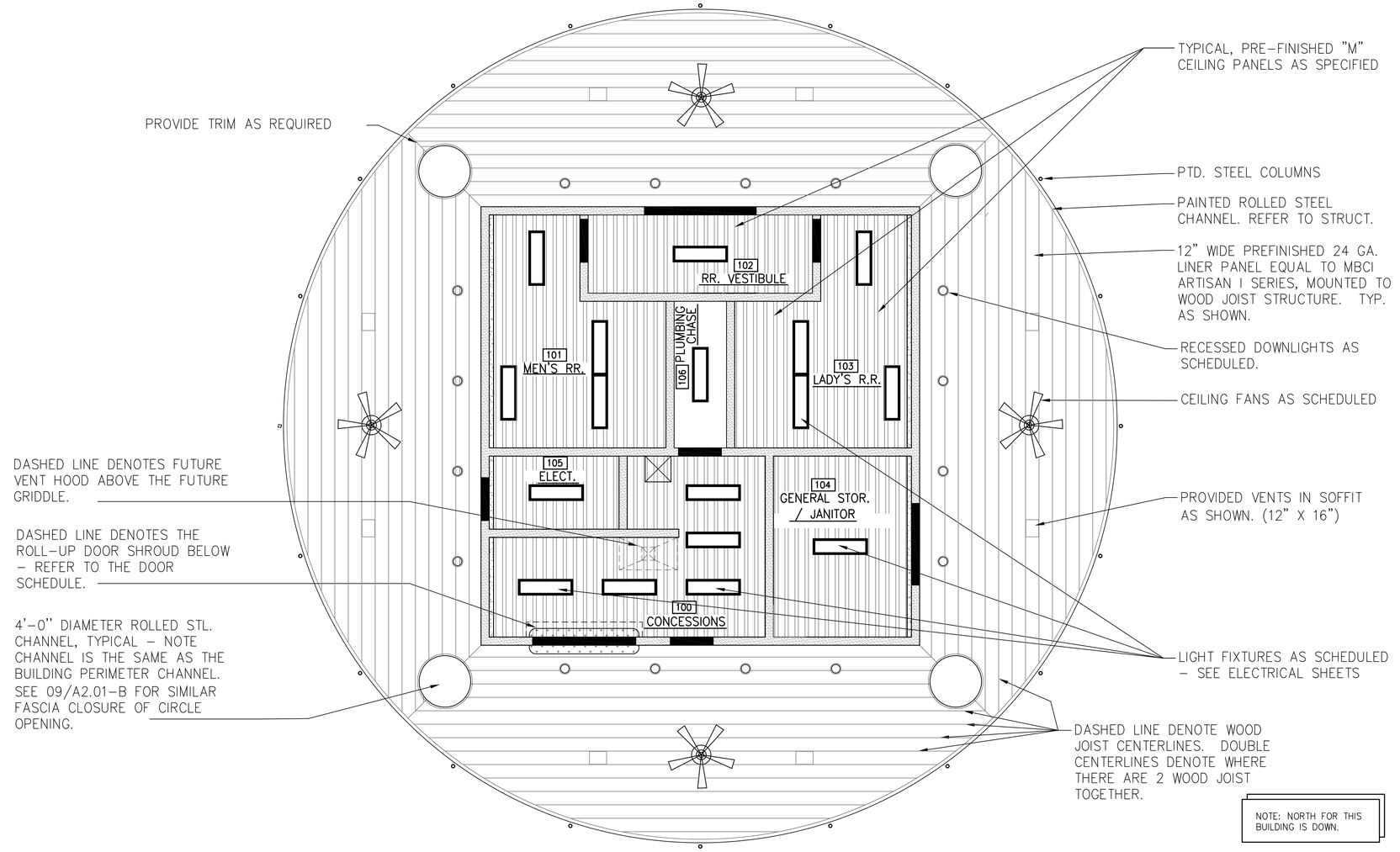
PAINTED TENSION RING SHOP FABRICATED IN TWO PIECES AND BOLTED AROUND CENTER PO TIGHTENED SO THAT THEY ARE EQUALLY TENS TO PROVIDE PLUMB CENTER POLE.

PLAN AT TENSION RING



08 CENTER POLE SECTION & DETAIL

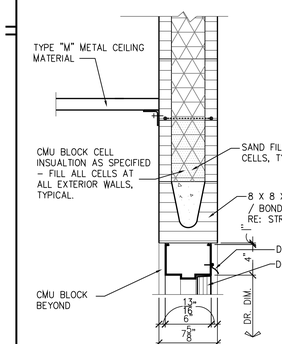
SCALE: 3\4" = 1'-0"



B REFLECTED CEILING PLAN - COMPLEX # 2

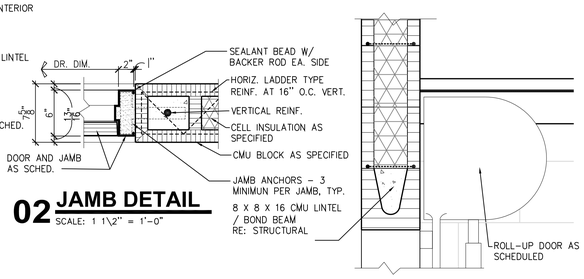
SCALE: 1/4" = 1'-0"

PLAN NORTH



01 HEAD DETAIL

SCALE: 1 1\2" = 1'-0"

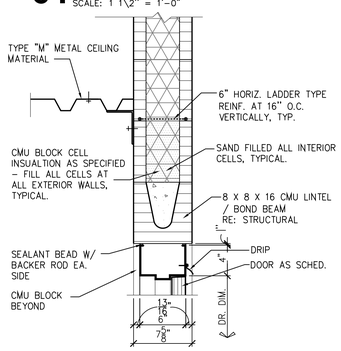


02 JAMB DETAIL

SCALE: 1 1\2" = 1'-0"

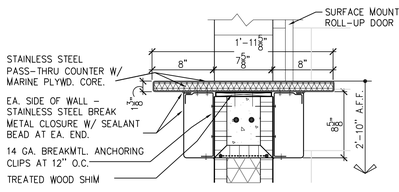
05 HEAD DETAIL

SCALE: 1 1\2" = 1'-0"



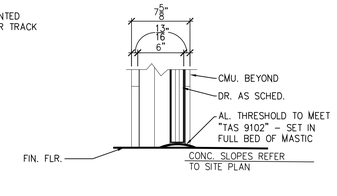
03 HEAD DETAIL

SCALE: 1 1\2" = 1'-0"



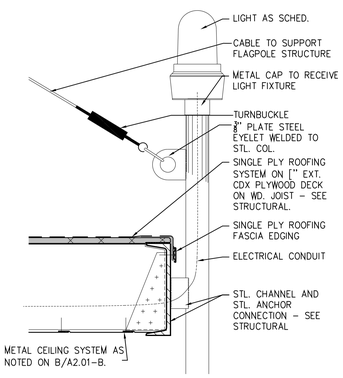
06 SILL DETAIL

SCALE: 1 1\2" = 1'-0"



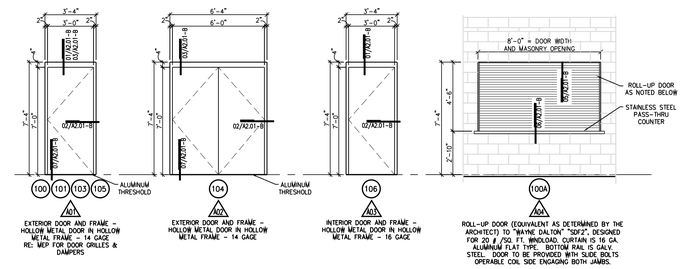
07 SILL DETAIL

SCALE: 1 1\2" = 1'-0"



09 SECTION DETAIL AT FASCIA AND PERIMETER COLUMNS

SCALE: 1 1/2" = 1'-0"



C DOOR AND FRAME ELEVATIONS

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

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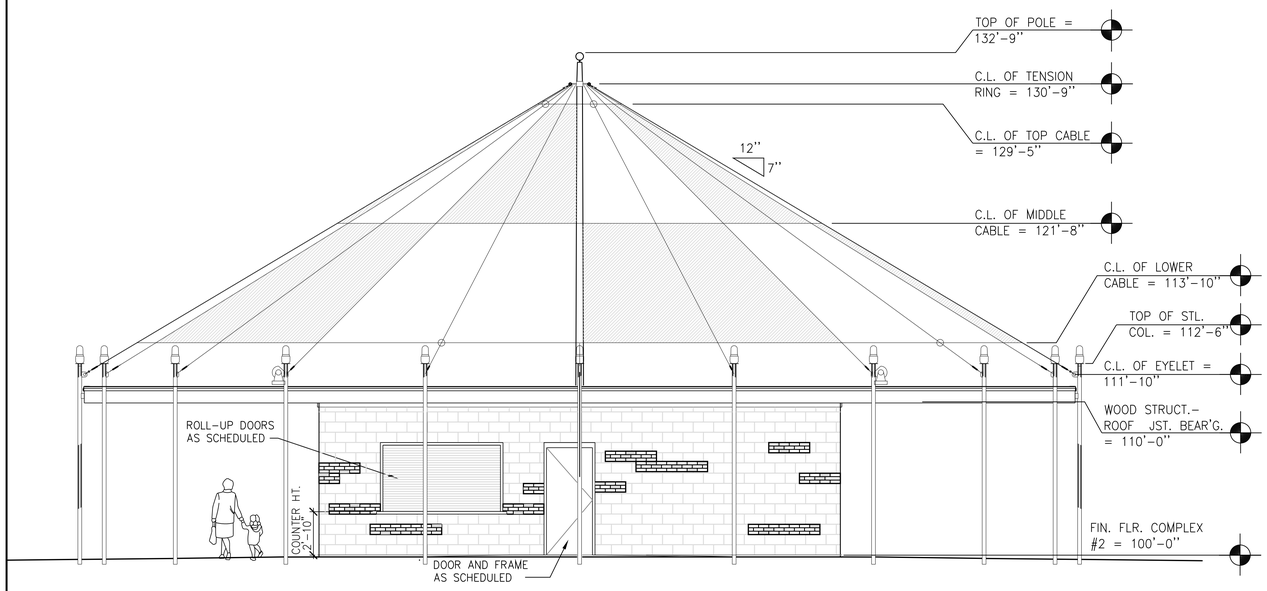
09-07-16
FOR PERMIT & CONSTRUCTION

CITY OF SAN ANGELO
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

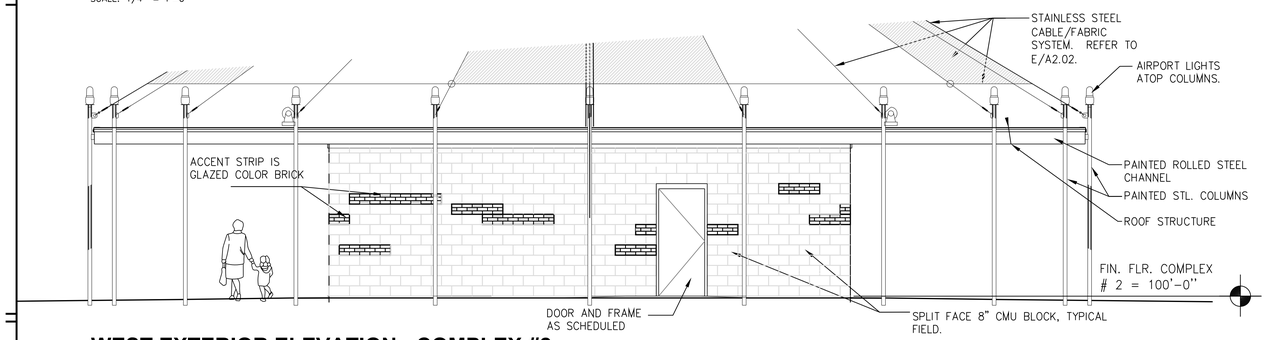
Project No. 250-02-0516
Date September 07, 2016

Sheet Number
A2.01-B



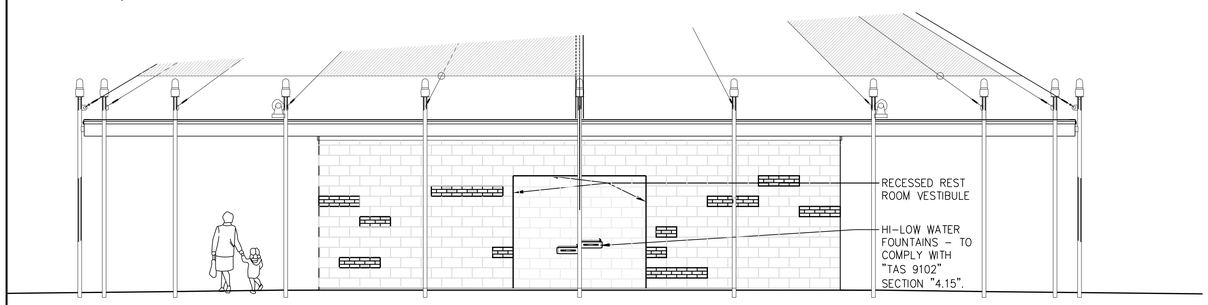
A NORTH EXTERIOR ELEVATION - COMPLEX #2

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



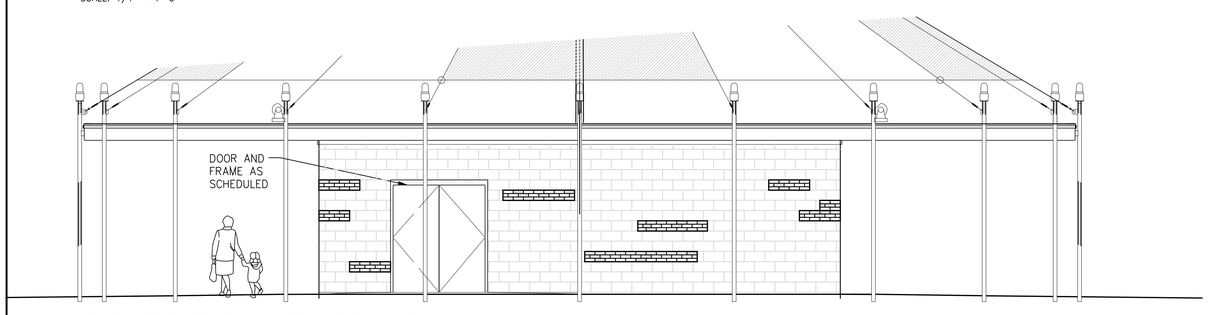
B WEST EXTERIOR ELEVATION - COMPLEX #2

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



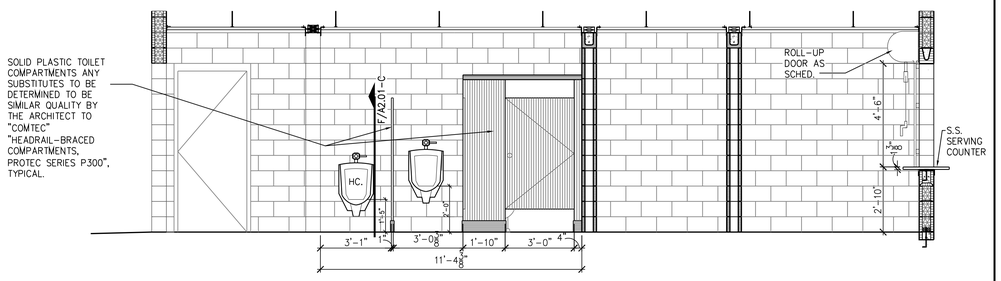
C SOUTH EXTERIOR ELEVATION - COMPLEX #2

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



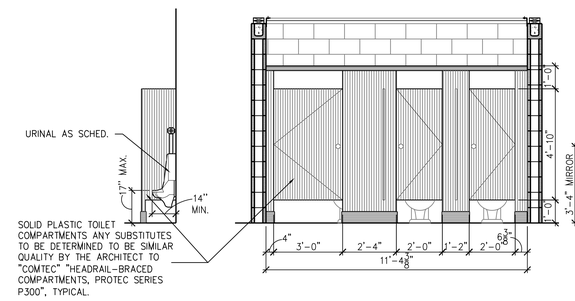
D EAST EXTERIOR ELEVATION - COMPLEX #2

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



E INTERIOR ELEVATION AND PARTIAL BLDG. SECTION

SCALE: 3/8" = 1'-0"

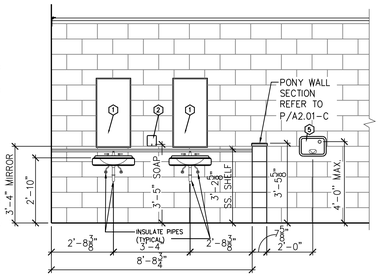


F URINAL

SCALE: 3/8" = 1'-0"

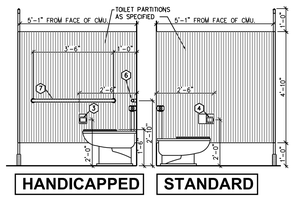
G WOMEN'S RESTROOM

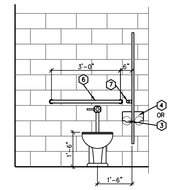
SCALE: 3/8" = 1'-0"

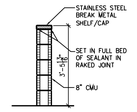


H ELEVATION AT LAVATORIES

SCALE: 3/8" = 1'-0"







M TYP. TOILET STALL SIDE ELEV'S.

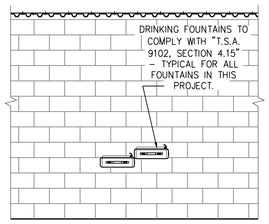
SCALE: 3\8" = 1'-0"

N TYP. HC. W.C. ELEV.

SCALE: 3\8" = 1'-0"

P TYP. PONY WALL

SCALE: 3\8" = 1'-0"

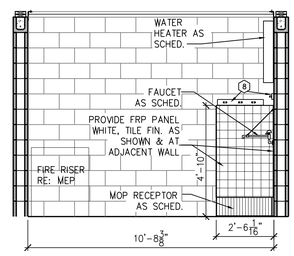


L WATER FOUNTAINS

SCALE: 3/8" = 1'-0"

ACCESSORIES SCHEDULE :

ITEM NO.	ITEM	DESCRIPTION	QUANTITY	MTG. HGT. A.F.F.	REMARKS
1	MIRROR	BOBRICK # B-165 1836	REFER TO PLANS & ELEVS.	35" TO BOT. EDGE A.F.F.	GLAZE WITH HIGH POLISHED S.S. REFLECTIVE SURFACE
2	SOAP DISPENSER	BOBRICK # B-4112	REFER TO PLANS & ELEVS.	41" TO ℄ OF DISP.	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
3	TOILET TISSUE (SURFACE MOUNT)	BOBRICK # B-2888	REFER TO PLANS & ELEVS.	19" MIN. TO ℄ OF DISP.	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
4	TOILET TISSUE (DBL. IN PARTITION)	BOBRICK # B-386	REFER TO PLANS & ELEVS.	19" MIN. TO ℄ OF DISP.	
5	ELECTRIC HAND DRYER	XLERATOR XL-C-XLERATOR-EXCEL DRYER	REFER TO PLANS & ELEVS.	48" MAX. TO ACTUATOR LEVER	
6	3'-0" GRAB BAR	BOBRICK # B-6206 X 36	REFER TO PLANS & ELEVS.	34" TO ℄ OF BAR	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
7	3'-6" GRAB BAR	BOBRICK # B-6206 X 42	REFER TO PLANS & ELEVS.	34" TO ℄ OF BAR	MOUNTING HT. AS SCHEDULED UNLESS NOTED ON ELEVATIONS
8	MOP HOLDER W/ SHELF	BOBRICK # B-224 X 30	REFER TO PLANS & ELEVS.	REFER TO ELEVATIONS	



J JANITOR - MOP SINK

SCALE: 3/8" = 1'-0"

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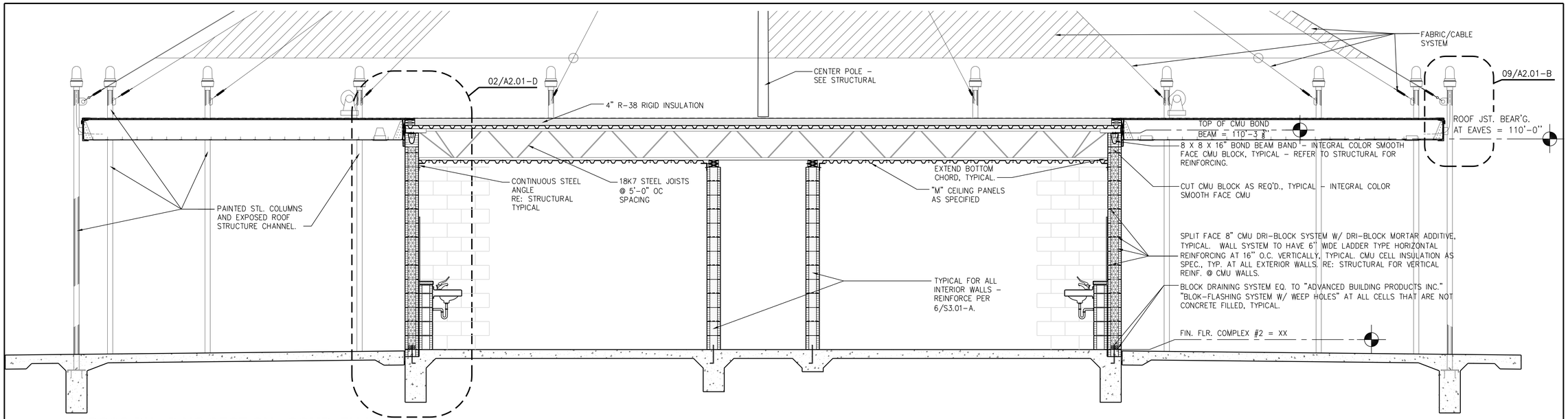
CITY OF SAN ANGELO
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

Project No. 250-02-0516

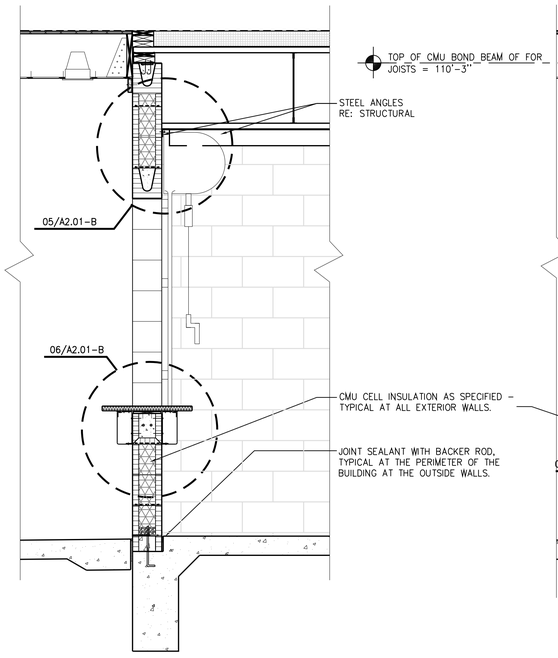
Date September 07, 2016

Sheet Number
A2.01-C



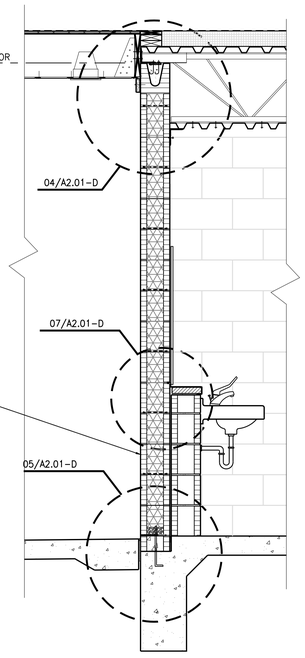
A CROSS BUILDING SECTION - COMPLEX # 2

SCALE: 1/2" = 1'-0"



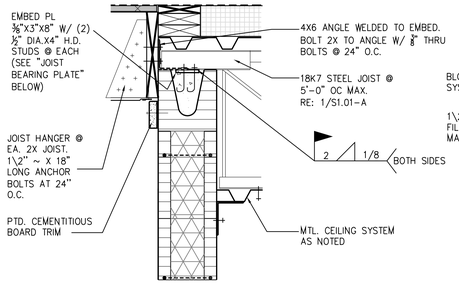
01 WALL SECTION PARALLEL TO TRUSSES

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



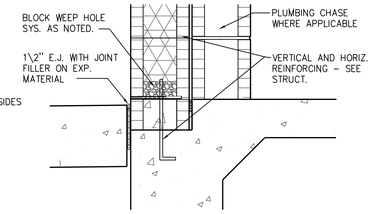
02 WALL SECTION AT JOIST BEARING, TYPICAL

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



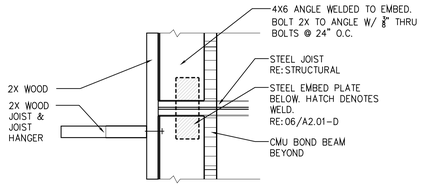
04 TRUSS BEARING

SCALE: 1 1/2" = 1'-0"



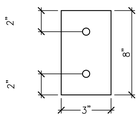
05 BASE DTL.

SCALE: 1 1/2" = 1'-0"



03 TRUSS BEARING PLAN DETAIL

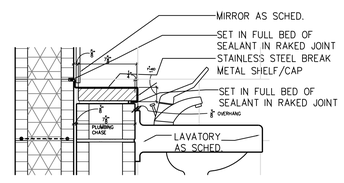
SCALE: 1 1/2" = 1'-0"



"JOIST BEARING PLATE" RE: 4/S2.01-D

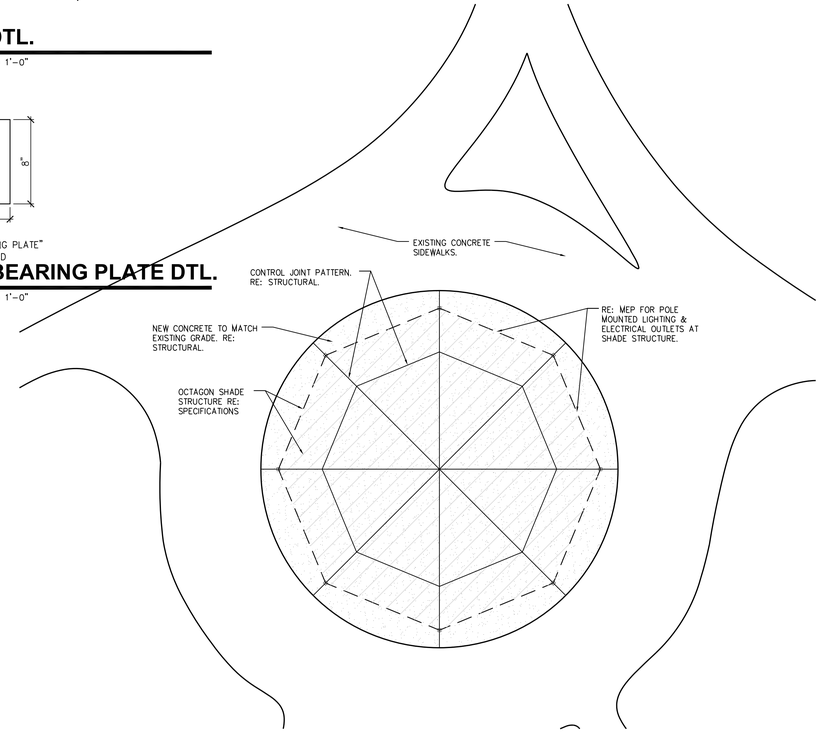
06 JOIST BEARING PLATE DTL.

SCALE: 1 1/2" = 1'-0"



07 STAINLESS STEEL SHELF

SCALE: 1 1/2" = 1'-0"



B SITE PLAN - SHADE STRUCTURE AT PLAY AREA

SCALE: 1/8" = 1'-0"

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09-07-16
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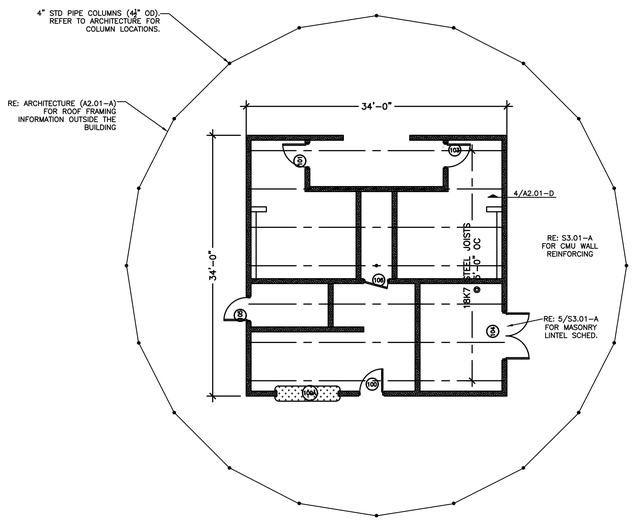
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

Project No. 250-02-0516

Date September 07, 2016

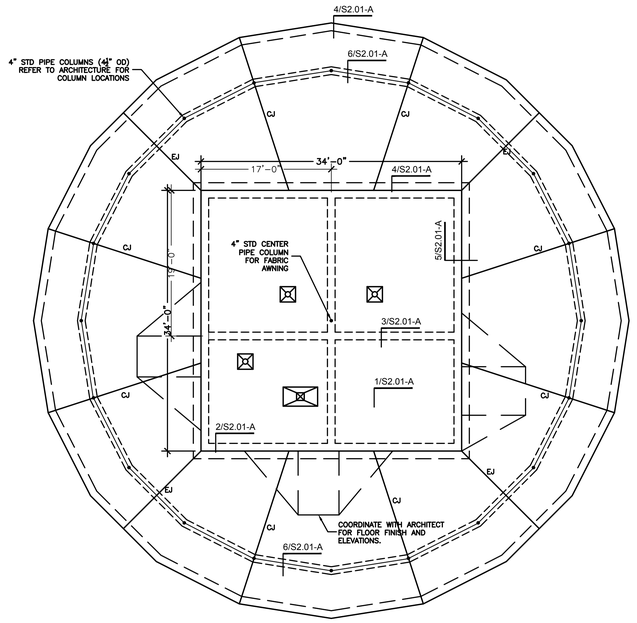
Sheet Number
A2.01-D



A ROOF FRAMNG PLAN – COMPLEX 2 (FIELD 2)

SCALE: 1/8" = 1'-0"

NORTH



A FOUNDATION PLAN – COMPLEX 2 (FIELD 2)

SCALE: 1/8" = 1'-0"

NORTH

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STATE OF TEXAS
JERRY P. WHITE
110408
LICENSED
PROFESSIONAL ENGINEER

NOT APPROVED FOR CONSTRUCTION.

THE SEAL APPEARING ON THIS DRAWING WAS AUTHORIZED BY JERRY P. WHITE, P.E. 110408
SKG ENGINEERING, LLC #F-7608

CITY OF SAN ANGELO
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

Project No. 245-06-0915

Date August 25, 2016

Sheet Number
S1.01-A

16-E-0929

SKG ENGINEERING, LLC
SURVEYING • ENVIRONMENTAL • LAB/CMT
706 SOUTH ABE STREET
SAN ANGELO, TEXAS 76903
PHONE: 325.655.1288
FAX: 325.657.8189
FIRM REGISTRATION NUMBER F-7608 & 10102400
www.skge.com
PROJECT # 15-E-0929

GENERAL NOTES

A. GENERAL

1. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.

2. VERIFY EXISTING CONDITIONS AND DIMENSIONS WITH ARCHITECT PRIOR TO BEGINNING WORK.

3. REFERENCE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING, ANCHORS, ETC., AND THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.

4. COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.

5. CONCRETE TRUCKS, CRANES, FORKLIFTS OR ANY VEHICLE WITH A WHEEL LOAD GREATER THAN 2,000 POUNDS SHALL NOT BE PERMITTED ON THE STRUCTURAL SLAB OR SLAB-ON-GRADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

6. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGNED LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT OBTAINED DESIGN STRENGTH.

B. DESIGN CRITERIA AND BUILDING CODE

1. INTERNATIONAL BUILDING CODE, 2003, INCLUDING AMENDMENTS AND ADDITIONS.

2. FLOOR LIVE LOADS — UNIFORM LOADS
   a. ALL AREAS — 100 PSF

C. FOUNDATION AND SUB-GRADE PREPARATION

1. THE SUBGRADE INFORMATION AND FOUNDATION DESIGN ARE BASED UPON A GEOTECHNICAL INVESTIGATION CONDUCTED BY SKG ENGINEERING, PROJECT NO. 06-A-0533.

2. BELOW AND 3' BEYOND THE FOUNDATION, REMOVE AT A MINIMUM THE TOP 3" EXISTING MATERIAL OR AS REQUIRED TO MEET THE REQUIREMENTS DETAILED HEREIN. IN ADDITION REMOVE ANY LOOSE, ORGANIC, SPONGY, OR OTHERWISE UNSUITABLE MATERIALS BELOW AND DISPOSE OFF IN A PROPER MANNER. THE EXPOSED SUBGRADE SHALL THEN BE PROOFROLLED UNTIL IT OFFERS A RELATIVELY UNYIELDING SURFACE. ANY SOFT OR PUMPING AREAS ARE TO BE EXCAVATED AND REPLACED WITH AN APPROVED FILL. SCARIFY AND MOISTURE CONDITION TOP 6" OF SUBGRADE TO A DEPTH OF SIX INCHES AND COMPACT TO AT LEAST OF 95 PERCENT OF THE STANDARD PROCTOR DENSITY WITHIN ±2 PERCENTAGE POINTS OF THE SOIL'S OPTIMUM MOISTURE CONTENT. ARRANGE FOR AN INDEPENDENT TESTING AGENCY TO VERIFY COMPACTION.

3. PROVIDE AN APPROVED SELECT FILL TO BRING THE SUBGRADE TO ELEVATION. AN APPROVED FILL MATERIAL WITH A PLASTICITY INDEX BETWEEN 6 AND 14 AND LIQUID LIMIT LESS THAN 40, PERCENT RETAINED ON SIEVE AS FOLLOWS: 2-1/2": 0-5%, No. 4: 40-80%, AND No. 40: 50-85% SHALL BE PLACED BELOW AND 3' BEYOND THE FOUNDATION IN LIFTS NOT TO EXCEED EIGHT INCHES THICK. UNIFORMLY COMPACT TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 WITHIN ±2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. ARRANGE FOR AN INDEPENDENT TESTING AGENCY TO VERIFY COMPACTION.

4. PROVIDE COMPACTED BASE CONSISTING OF TYPE A, GRADE 2 OR BETTER, LIMESTONE MATERIAL BELOW AND 3' BEYOND THE FOUNDATION IN LIFTS NOT TO EXCEED EIGHT INCHES THICK. UNIFORMLY COMPACT TO AT LEAST 96 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 WITHIN ±2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. ARRANGE FOR AN INDEPENDENT TESTING AGENCY TO VERIFY COMPACTION.

5. VERIFY COMPACTION AT A FREQUENCY OF A MINIMUM OF 3 TEST PER LIFT OR ONE PER 2,000 SQUARE FEET OF AREA.

6. MAINTAIN THE SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED TO THE GREATEST EXTENT POSSIBLE.

7. USE TEMPORARY CASING IF REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE HOLE, OR PREVENT INFLUX OF GROUND WATER.

8. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.

D. CAST-IN-PLACE CONCRETE

1. WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-96, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.

2. TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF ACI 117, "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.

3. UNLESS NOTED OTHERWISE, ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNIT WEIGHT APPROXIMATELY 145 PCF.

4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.

5. SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS AND CONTROL JOINTS AS SHOWN ON THE DRAWINGS. OBTAIN WRITTEN APPROVAL FROM ENGINEER IF REQUESTING ADDITIONAL CONSTRUCTION JOINTS.

6. CLEAN ALL CONSTRUCTION JOINTS THOROUGHLY AND PURPOSELY ROUGHEN THE SURFACE TO 1/4" AMPLITUDE PRIOR TO PLACING ADJACENT CONCRETE.

7. APPLY A GREY COLOR, HORIZONTAL JOINT SEALANT IN ALL CONSTRUCTION AND SAWN JOINTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

8. PLACEMENT OF SLEEVES OR OPENINGS THROUGH BEAMS, COLUMNS, OR JOISTS IS NOT PERMITTED UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED, IN WRITING, BY ENGINEER. OPENINGS 12" SQUARE OR SMALLER MAY BE PLACED WITHOUT WRITTEN APPROVAL.

9. CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDS AND ANCHOR BOLTS. ANCHOR BOLTS SHALL BE SET WITH A TEMPLATE. ALL EMBED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.

10. ALL WELDING TO REINFORCING WILL CONFORM TO THE AWS STRUCTURAL WELDING CODE-REINFORCING STEEL, D1.4-2000.

11. CONCRETE MIX DESIGNS SHALL CONFORM TO THE FOLLOWING:

   A. SLAB ON GRADE, GRADE BEAMS, PIERS AND PILASTERS
      i. 1-1/2 INCH MAXIMUM COARSE AGGREGATE;
      ii. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI;
      iii. MAXIMUM WATER-TO-CEMENTITIOUS MATERIAL RATIO OF 0.53;
      iv. SLUMP BETWEEN 4 AND 6 INCHES;
      v. AIR CONTENT SHALL BE 4% TO 6%.
      vi. USE OF FLY-ASH AND/OR GROUND-GRANULATED-BLAST-FURNACE -SLAG IS LIMITED TO 20% SUBSTITUTION BY WEIGHT OF CEMENT.

12. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A TOOLED FINISH UNLESS NOTED ELSEWHERE IN THE PLANS OR CONSTRUCTION DOCUMENTS.

13. ADDITION OF WATER TO BATCHED CONCRETE AT THE JOB SITE IS LIMITED TO THE CASE WHEN THE WORKABILITY OF DELIVERED CONCRETE IS INSUFFICIENT FOR PRACTICAL PLACEMENT AND ALL OF THE WATER ALLOWED BY THE MIX DESIGN HAS NOT BEEN ADDED AT THE START OF MIXING. IN NO CASE SHALL THE SPECIFIED WATER-TO-CEMENTITIOUS MATERIAL RATIO OR SLUMP BE EXCEEDED. UNDER NO CIRCUMSTANCES SHALL WATER BE ADDED TO THE CONCRETE MIXTURE AFTER PART OF THE BATCH HAS BEEN DISCHARGED.

14. UNLESS AN ALTERNATIVE CURING PROCEDURE IS SUBMITTED TO THE ENGINEER FOR APPROVAL, CONCRETE SHALL BE MAINTAINED ABOVE 50°F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 5 DAYS AFTER PLACEMENT.

E. CONCRETE CONTROL TESTS

1. MAKE TEST CYLINDERS FROM CONCRETE MIXED AND AT THE DIRECTION OF ARCHITECT/ENGINEER. A MINIMUM OF FOUR (4) TEST CYLINDERS SHALL BE MADE FOR EACH POUR OR PER EVERY 50 CUBIC YARDS.

2. TEST SPECIMEN: SHALL BE TAKEN AND TESTED BY AN APPROVED TESTING LABORATORY, IN ACCORDANCE WITH ASTM SPECIFICATIONS FOR COMPRESSION TEST OF CONCRETE. CRUSH ONE (1) TEST CYLINDER AT SEVEN DAYS, TWO (2) AT TWENTY-EIGHT DAYS, AND HOLD ONE (1) IN RESERVE. CONCRETE TESTED WHICH FALLS BELOW THE STRENGTH SPECIFIED SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

3. MAKE SLUMP TEST FOR EACH SET OF CYLINDERS. SLUMP: DETERMINED WITH A STANDARD SLUMP CONE IN ACCORDANCE WITH ASTM RECOMMENDATIONS BY AN APPROVED TESTING COMPANY.

4. LABORATORY REPORTS SHALL INCLUDE:
   A. DATE OF POUR.
   B. LOCATION OF POUR, SO THAT IDENTIFIED ON PLANS
   C. BY WHOM CYLINDERS TAKEN, INCLUDING NAME OF INDIVIDUAL
   D. SLUMP
   E. TEMPERATURE
   F. RESULTS OF COMPRESSION TEST

5. DISTRIBUTION OF TEST RESULTS: ONE COPY TO STRUCTURAL ENGINEER AND ONE COPY TO ARCHITECT. TEST RESULTS WHICH DO NOT INCLUDE ABOVE INFORMATION ARE NOT ACCEPTABLE, UNLESS ACCOMPANIED BY LETTER EXPLAINING REASONS FOR NON-COMPLIANCE.

F. REINFORCING STEEL

1. PROVIDE NEW BILLET STEEL REINFORCING CONFORMING TO ASTM A615, GRADE 60.

2. PROVIDE WELDED WIRE FABRIC CONFORMING TO ASTM A185. LAP LENGTH FOR WELDED WIRE FABRIC IS 12" MINIMUM.

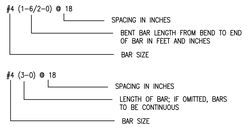
3. CONCRETE CLEAR COVER OVER REINFORCING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-99 AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 in.
EXPOSED TO EARTH OR WEATHER, #6 BAR AND LARGER	2 in.
EXPOSED TO EARTH OR WEATHER, #5 BAR AND SMALLER	1 1/2 in.
SLABS, WALLS, JOISTS NOT EXPOSED TO EARTH OR WEATHER	3/4 in.
BEAMS AND COLUMNS NOT EXPOSED TO EARTH OR WEATHER	1 1/2 in.

4. ALL REINFORCING SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE. PROVIDE CLASS "B" REINFORCING SPLICES. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-99, UNLESS NOTED OTHERWISE. STAGGER SPLICES UNLESS SPECIFICALLY NOTED.

5. WHERE REQUIRED, PROVIDE DOWELS MATCHING SIZE AND SPACING OF MAIN REINFORCEMENT.

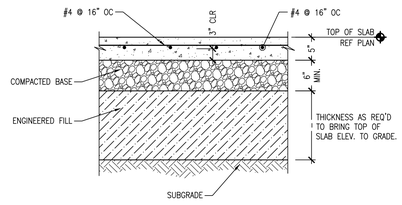
6. REINFORCING LEGEND:



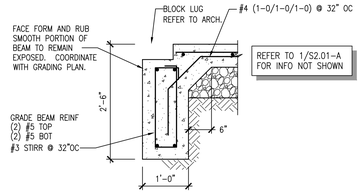
G. INSPECTIONS

1. CONTRACTOR SHALL CONTACT SKG ENGINEERING TO PERFORM A REINFORCING STEEL INSPECTION A MINIMUM OF 2 DAYS PRIOR TO PLACING CONCRETE.

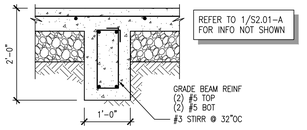
2. CONTRACTOR IS REQUIRED TO COORDINATE WITH ALL OTHER ENTITIES THAT MAY REQUIRE INSPECTIONS (E.G. OWNER, ARCHITECT, CITY OF SAN ANGELO INSPECTIONS DEPT., ETC.)



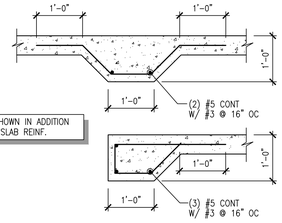
SLAB
1 SECTION
NO SCALE



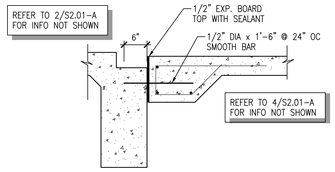
PERIMETER BEAM
2 SECTION
NO SCALE



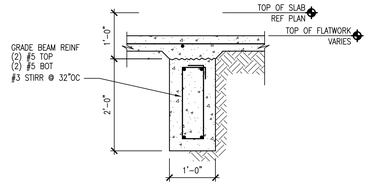
INTERIOR BEAM
3 SECTION
NO SCALE



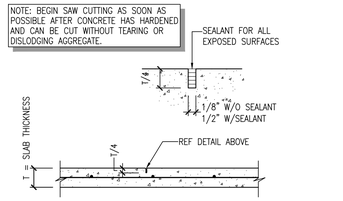
THICKENED SLAB
4 SECTION
NO SCALE



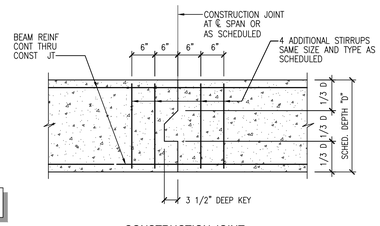
5 SECTION
NO SCALE



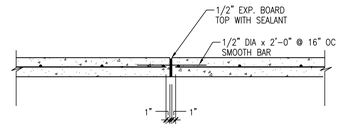
CONTINUOUS FOOTING
6 SECTION
NO SCALE



CONTROL JOINT (CJ)
7 TYPICAL DETAIL
NO SCALE



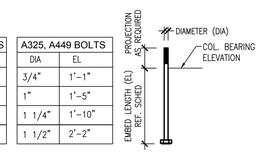
CONSTRUCTION JOINT
8 BEAM DETAIL
NO SCALE



CONSTRUCTION-EXPANSION JOINT (EJ)
9 SLAB DETAIL
NO SCALE

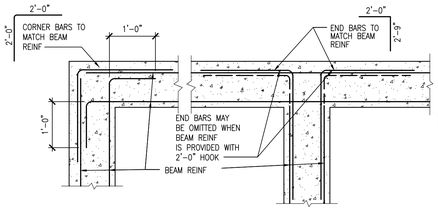
A307, A36 BOLTS	
DIA	EL
3/4"	0'-9"
1"	1'-0"
1 1/4"	1'-3"
1 1/2"	1'-6"

A325, A449 BOLTS	
DIA	EL
3/4"	1'-1"
1"	1'-5"
1 1/4"	1'-10"
1 1/2"	2'-2"

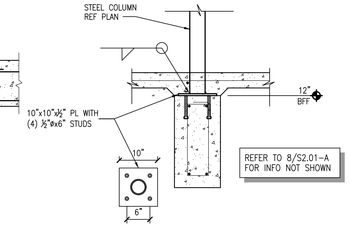


DETAIL COVERS ONLY MIN. REQUIREMENTS FOR ANCHOR BOLT EMBEDMENT. REFER TO OTHERS FOR ADDN'L INFO.

ANCHOR BOLT EMBEDMENT
11 SCHEDULE
NO SCALE



CORNER REINFORCEMENT
12 TYPICAL DETAIL
NO SCALE



BASE PLATE
13 DETAIL
NO SCALE

SKG ENGINEERING, LLC
SURVEYING • ENVIRONMENTAL • LAB/CMT
706 SOUTH ABE STREET
SAN ANGELO, TEXAS 76903
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www.skge.com
PROJECT # 15-E-0929

Revised

CIVIL ENGINEER
SKG ENGINEERING
POWER SYSTEMS
MECHANICAL ENGINEER
STRUCTURAL ENGINEER
SKG ENGINEERING

kinney • franke ARCHITECTS AIA
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NOT APPROVED FOR CONSTRUCTION.

JERRY P. WHITE
STATE OF TEXAS
LICENSED PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DRAWING WAS AUTHORIZED BY JERRY P. WHITE, P.E. 110408 SKG ENGINEERING, LLC #F-7608

CITY OF SAN ANGELO
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

Project No. 245-06-0915

Date July 8, 2016

Sheet Number
S2.01-A
16-E-0929

GENERAL NOTES

A. GENERAL

1. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
2. VERIFY EXISTING CONDITIONS AND DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK.
3. REFERENCE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING, ANCHORS, ETC., AND THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.
4. COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.

B. DESIGN CRITERIA AND BUILDING CODE

1. INTERNATIONAL BUILDING CODE, 2009, INCLUDING AMENDMENTS AND ADDITIONS.

	UNIFORM LOADS
2. ROOF LIVE LOAD	20 PSF (REDUCIBLE)
3. ROOF DEAD LOAD	15 PSF
4. SNOW LOADS	
GROUND SNOW LOAD	5 PSF
ROOF SNOW LOADS	5 PSF
SNOW EXPOSURE FACTOR	0.9
SNOW LOAD IMPORTANCE	1.0
5. WIND LOADS	
BASIC WIND SPEED (ASCE -10)	115 MPH
VELOCITY PRESSURE	24.5 PSF
Iw	1.0
EXPOSURE	C

C. STRUCTURAL STEEL

	FY, KSI	ASTM
STRUCTURAL STEEL SHAPES, W AND WT	50	A992
STRUCTURAL STEEL SHAPES, OTHER THAN W AND WT	36	A36
STRUCTURAL STEEL PLATES	36	A36
HOLLOW STRUCTURAL SECTION (HSS), RECTANGULAR	46	A500, GR B
HOLLOW STRUCTURAL SECTION (HSS), ROUND	42	A500, GR B
HOLLOW STRUCTURAL SECTION (HSS),	50	A570
STRUCTURAL BOLTS	92	A325
WELDING ELECTRODES	E70XX	AWS D1.1 00

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, CURRENT EDITION.
2. ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS SHALL BE DESIGNED USING AISC MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, SECOND EDITION.
3. PROVIDE ALL WELDING DONE BY QUALIFIED, CERTIFIED WELDERS IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE-STEEL, D1.1:2000.
4. STRUCTURAL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.

MINIMUM SIZE OF FILLET WELDS[b]

Material Thickness of Thicker Port Joined (in.)	Minimum Size of Fillet Weld[a] (in.)
To 1/4 inclusive	1/8
Over 1/4 to 1/2	3/16
Over 1/2 to 3/4	1/4
Over 3/4	5/16

[a] Leg dimension of fillet welds. Single pass welds must be used.
[b] See AWS Section J2.2b for maximum size of fillet welds.

5. STRUCTURAL STEEL CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD (Wc/L) FOR THE GIVEN SPAN AS INDICATED IN PART 2 (BEAMS AND GIRDERS) OF THE AISC MANUAL. MEMBERS REQUIRING CONNECTIONS OF GREATER CAPACITY THAN STATED ABOVE HAVE MEMBER REACTIONS SHOWN ON THE PLANS.
6. THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
7. PROVIDE BEARING TYPE BOLTS AND INSTALL USING "TURN OF THE NUT" METHOD OR WITH TENSION INDICATING WASHERS.
8. UNLESS NOTED OTHERWISE, ALL UNEQUAL LEG DOUBLE ANGLES SHALL HAVE LONG LEGS BACK TO BACK.
9. CLEAN RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS FROM STEEL WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING.
10. NO CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES IS ALLOWED WITHOUT PRIOR REVIEW AND WRITTEN APPROVAL OF THE ENGINEER.
11. GROUT FOR BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.

D. STEEL CONNECTIONS TESTING

1. ARRANGE FOR TESTING AGENCY TO PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING. SEQUENCE ALL WORK TO ALLOW TESTING REQUIREMENTS TO BE COMPLETED.
2. PROVIDE INSPECTIONS IN ACCORDANCE WITH AWS D1.1 ON ALL FABRICATED PIECES PRIOR TO SHIPPING AND ON ALL FIELD WORK ON THE SITE.
3. REVIEW WELDERS CERTIFICATES.
4. PERFORM MAGNETIC PARTICLE TESTING IN ACCORDANCE WITH ASTM E109 ON FILLET WELDS AS FOLLOWS:

   10% OF SHEAR PLATE FILLET WELDS AT RANDOM (FINAL PASS ONLY)
   100% OF TENSION MEMBER CONNECTIONS (I.E., HANGER RODS, X-BRACING)
   10% OF OTHER MISCELLANEOUS WELDS.

   VISUALLY INSPECT ALL REMAINING FILLET WELDS.
5. PERFORM ULTRASONIC TESTING ON ALL FULL PENETRATION WELDS.
6. PERFORM INSPECTION OF BOLTED CONNECTIONS IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS." TEST 10% OF ALL BOLTS IN BEARING TYPE CONNECTIONS (MINIMUM 1 BOLT PER CONNECTION). TEST ALL FRICTION TYPE BOLTS.
7. VISUALLY INSPECT ALL IN PLACE DECK AND DECK CONNECTIONS. VERIFY DECK TYPE, GAGE, AND FINISH. REVIEW PLUG WELD CONNECTION QUALIFICATION PROCEDURES.
8. INSPECT ALL INSTALLATION OF EXPANSION BOLTS TO ENSURE THAT HOLES ARE OF PROPER DIAMETER AND LENGTH, AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.

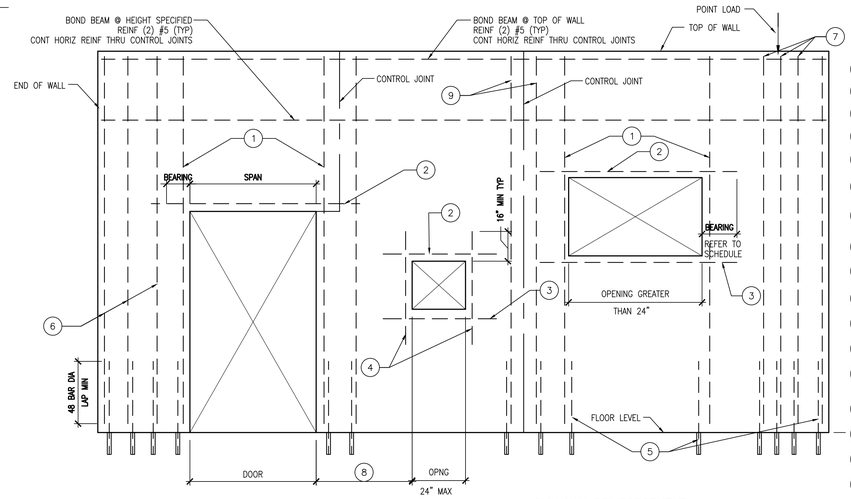
E. STEEL JOIST & METAL DECK

1. DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO STEEL DECK INSTITUTES AND STEEL JOIST INSTITUTES CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS LATEST EDITION.
2. STEEL JOIST SHALL BE AN "OPEN WEB STEEL JOISTS K-SERIES" AS MANUFACTURED BY VULCRAFT OR APPROVED EQUAL.
3. STEEL FORM DECKING SHALL BE GALVANIZED METAL DECK OF THE HEIGHT AND GAGE SHOWN WITH MINIMUM SECTION PROPERTIES AS FOLLOWS:

   ROOF - TYPE B

   H = 1-1/2 in
   Go = 22 (MAIN BLDG)
   I = 0.169 in^4/ft
   Sp = 0.186 in^3/ft
   Sn = 0.192 in^3/ft
   Fy = 33 KSI

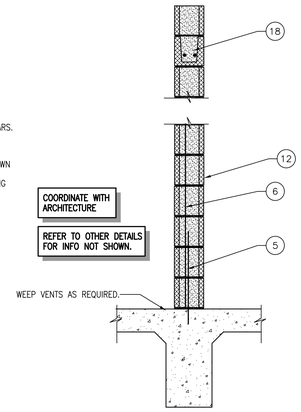
4. IMMEDIATELY AFTER ALIGNMENT, CONNECT DECKING TO SUPPORTS, INCLUDING PERIMETER MEMBERS PARALLEL TO SHEETS WITH 5/8" DIAMETER PUDDLE WELDS, AT 18" ON CENTER. PROVIDE SIDE LAP CONNECTION WITH #10 TEK SCREWS AT 18" ON CENTER. PROVIDE A MIN. OF 36 WELDS PER 100 SQ. FT.
5. INSTALL DECK IN MINIMUM THREE SPAN LENGTHS WHENEVER POSSIBLE. NO SINGLE SPANS.
6. ALL WELDING TO METAL DECK WILL CONFORM TO THE AWS STRUCTURAL WELDING CODE-SHEET STEEL, AWS01.3-98.
7. SUSPENDED CEILING, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.



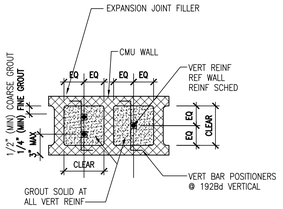
1 CMU WALL REINFORCEMENT
TYPICAL DETAIL
NO SCALE

REINFORCING NOTES:
MASONRY WALL

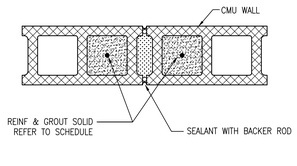
1. ONE VERTICAL BAR MATCHING WALL REINFORCING
2. REFER TO MASONRY LINTEL SCHEDULE FOR SIZE & REINFORCING.
3. SILL BARS: (2) #4 IN BOND BEAM
4. (1) #4 EACH SIDE
5. PROVIDE DOWEL SIZE AND QUANTITY TO MATCH VERTICAL WALL REINFORCING BARS. DRILL & EPOXY GROUT 6" INTO CONCRETE.
6. UNLESS NOTED OTHERWISE VERTICAL WALL REINFORCEMANT SHALL BE AS SCHEDULED. ADDITIONAL REINFORCEMENT AT OPENINGS AND CORNERS AS SHOWN
7. REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ADDITIONAL REINFORCING REQUIREMENTS BELOW POINT LOADS OR AT OTHER LOCATIONS.
8. FULLY GROUT CELLS WHERE DISTANCE IS 2'-0" OR LESS.
9. ONE VERTICAL BAR EACH SIDE OF CONTROL JOINT. MATCH SCHEDULED WALL REINFORCING.
10. ALL REINFORCING SHOWN IS IN ADDITION TO VERTICAL WALL REINFORCMENT.
11. VERTICAL REINFORCING SHALL BE GROUT FILL CELLS.
12. REFER TO GENERAL NOTES FOR REQUIRED HORIZONTAL REINFORCEMENT.
13. REFER TO PLAN FOR LOCATION OF CONTROL JOINTS. PROVIDE CONTROL JOINTS AT 24'-0" ON CENTER MAXIMUM U.N.O.
14. USE VERTICAL BAR POSITIONERS AT 160Bd (6'-8" MAXIMUM).
15. HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM BLOCKS.
16. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
17. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT FIRST JOINT ABOVE AND BELOW OPENINGS AND EXTEND 1'-0" BEYOND THE OPENING.
18. BOND BEAM WITH (2) #4'S AT 8'-0" O.C. MAX AND WHERE REQUIRED ELSEWHERE.



2 TYPICAL WALL
SECTION
NO SCALE



3 REINFORCEMENT
DETAIL
NO SCALE

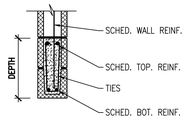


4 CONTROL JOINT
DETAIL
NO SCALE

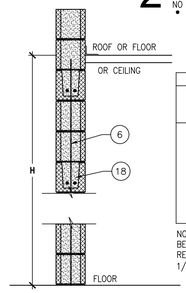
MASONRY LINTEL SCHEDULE

LENGTH OF SPAN	DEPTH	TIES	BOT. REINF.	TOP REINF.	BEARING
UP TO 4'-0"	8"	–	(2) #4	–	8" MIN.
4'-0" TO 6'-0"	16"	#3@16"	(2) #4	(2) #4	8" MIN.
6'-0" TO 8'-0"	16"	#3@16"	(2) #5	(2) #4	16" MIN.
8'-0" TO 10'-0"	16"	#3@12"	(2) #6	(2) #4	16" MIN.

NOTES:
1. FILL LINTEL BLOCK WITH SPECIFIED MASONRY GROUT.
2. LINTELS ARE DESIGNED FOR LOAD BEARING WALLS.



5 MASONRY LINTEL
SCHEDULE
NO SCALE



VERTICAL REINFORCEMENT SCHEDULE

H ≤ FEET	SIZE AND SPACING: EXTERIOR LOAD BRNG	INTERIOR LOAD BRNG	INTERIOR PARTITION
12	#5 @ 32	--	#4 @ 64
14	--	--	--
16	--	--	--
18	--	--	--
20	--	--	--
22	--	--	--
24	--	--	--
26	--	--	--

NOTE ADDITIONAL REINFORCING REQUIRED BELOW JOIST BEARING POINTS AND AS REQUIRE AROUND OPENINGS AS SHOWN ON 1/S3.01-A

6 VERTICAL REINFORCEMENT
SCHEDULE
NO SCALE

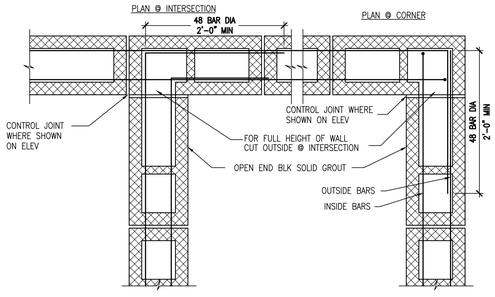
F. CONCRETE MASONRY UNITS

1. STRUCTURAL CONCRETE MASONRY TO BE IN ACCORDANCE TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI530-99/ASCE 5-99/TMS 402-99, SPECIFICATION FOR MASONRY STRUCTURES ACI530.1-99/ASCE 6-99/TMS 602-99, AND ACI531.1-76, 1983 SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION.
2. HOLLOW CONCRETE MASONRY UNITS TO BE LIGHT OR NORMAL WEIGHT, GRADE N, TYPE 1 MEETING THE REQUIREMENTS OF ASTM C90. CONCRETE MASONRY UNITS TO BE MOISTURE CONTROLLED, TYPE 1 WITH A MINIMUM NET-AREA COMPRESSIVE STRENGTH OF 1,500 PSI.
3. PROVIDE MASONRY MORTAR MEETING THE REQUIREMENTS OF ASTM C270 OR ASTM C476. THE MINIMUM 28-DAY MORTAR COMPRESSIVE STRENGTH SHALL BE 1,800 PSI.
4. PROVIDE MASONRY GROUT WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C1019. GROUT TO MEET THE MINIMUM REQUIREMENTS SPECIFIED IN ASTM C476.
5. PROVIDE HORIZONTAL JOINT REINFORCING IN WALLS ABOVE GRADE AT 16" ON CENTER VERTICAL SPACING AND IN WALLS BELOW GRADE AT 8" ON CENTER VERTICAL SPACING JOINT REINFORCING TO BE NO. 9 GAGE LADDER TYPE WITH CROSS TIES AT 16" ON CENTER. GALVANIZE WITH 0.8 OUNCE ZINC COATING.
6. LAY HOLLOW UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS, WHERE THEY ARE ADJACENT TO CELLS, TO BE REINFORCED OR FILLED WITH GROUT. CELLS WHICH CONTAIN REINFORCING STEEL SHALL BE FILLED SOLIDLY WITH 2,500 PSI CONCRETE OR GROUT, INCLUDING BOND BEAMS, LINTELS, AND PILASTERS.
7. VERTICAL CELLS TO BE FILLED WITH GROUT TO BE ALIGNED TO PROVIDE A CONTINUOUS UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON DRAWINGS. GROUT TO BE CONSOLIDATED BY VIBRATION OR OTHER METHODS TO ENSURE COMPLETE FILLING OF CELLS.
8. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONTROL JOINTS UNLESS NOTED OTHERWISE.
9. INSTALL ANCHORS, ACCESSORIES, AND OTHER ITEMS TO BE BUILT IN AS WORK PROGRESSES.
10. SPLICE VERTICAL REINFORCING A MINIMUM OF 48 BAR DIAMETERS OR 24", WHICHEVER IS GREATER.
11. FIELD DRILLED EXPANSION BOLTS TO BE KWIK BOLT, BY HILTI, INC., OR WEJ-IT BOLTS, BY WEJ-IT CORPORATION. INSTALL BOLTS IN ACCORDANCE WITH THE CURRENT ICBO REPORT FOR THE BOLT AND THE RECOMMENDATIONS OF THE MANUFACTURER.
12. FIELD DRILLED MASONRY ANCHORS TO BE HIT HY20 INJECTION ADHESIVE ANCHOR SYSTEM, BY HILTI, INC., OR APPROVED EQUAL. INSTALL ANCHORS IN ACCORDANCE WITH THE CURRENT ICBO REPORT FOR THE ANCHOR AND THE RECOMMENDATIONS OF THE MANUFACTURER.
13. ALL CUTTING AND FITTING OF MASONRY SHALL BE DONE BY MASONRY MECHANICS WITH MASONRY SAWS.
14. TOLERANCES FOR PLUMBNESS OF MASONRY WALLS OR COLUMNS SHALL BE ±1/4" IN 10 FEET, ±3/8" IN 20 FEET, AND ±1/2" MAXIMUM. THEY SHALL ALSO MAINTAIN TRUE TO LINE WITHIN THE SAME TOLERANCES AS VARIATIONS FROM PLUMB. EACH COARSE SHALL REMAIN LEVEL WITHIN A SLOPE OF ±1/4" IN 10 FEET, BUT NO MORE THAN ±1/2".
15. INITIAL BED JOINT THICKNESS SHALL BE BETWEEN 1/4" MIN. AND 3/4" MAXIMUM. BED JOINT THICKNESS SHALL BE 3/8" ±1/8". HEAD JOINT THICKNESS SHALL BE 3/8" (-1/4" TO +3/8").
16. PROVIDE TEMPORARY BRACING AS REQUIRED DURING THE CONSTRUCTION PROCESS AS REQUIRED BY LAW.

G. INSPECTIONS

1. CONTRACTOR SHALL CONTACT SKG ENGINEERING TO PERFORM A STRUCTURAL STEEL INSPECTION, PRIOR TO INSTALLING INTERIOR OR EXTERIOR STUD FRAMING.
2. PER SPECIFICATIONS, CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION, REF. SPECIFICATIONS SECTION 05120.
2. CONTRACTOR IS REQUIRED TO COORDINATE WITH ALL OTHER ENTITIES THAT MAY REQUIRE INSPECTIONS (E.G. OWNER, ARCHITECT, CITY OF SAN ANGELO INSPECTIONS DEPT., ETC.)

NOTES:
1. OUTSIDE BARS EXTEND AROUND CORNER, INSIDE BARS EXTEND AS FAR AS POSSIBLE & BEND INTO CORNER CELL.
2. WHERE SINGLE LAYER OF REINF OCCURS, BEND REINF AS SHOWN FOR OUTSIDE BARS.
3. WHERE LADDER TYPE HORIZONTAL REINFORCING IS SPECIFIED, USE FACTORY PREFABRICATED CORNER JOINT REINFORCEMENT OVERLAPPING LADDER REINF. BY SIX INCHES.



7 CMU WALL CORNER
TYPICAL DETAIL
NO SCALE

Revised

CIVIL ENGINEER
SKG ENGINEERING
• POWER SYSTEMS
MECHANICAL ENGINEER
• • • • • • • •
STRUCTURAL ENGINEER
SKG ENGINEERING

kinney • franke ARCHITECTS AIA
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STATE OF TEXAS
JERRY P. WHITE
LICENSED
PROFESSIONAL ENGINEER

NOT APPROVED FOR CONSTRUCTION.

THE SEAL APPEARING ON THIS DRAWING WAS AUTHORIZED BY JERRY P. WHITE, P.E. 110408 SKG ENGINEERING, LLC #F-7608

CITY OF SAN ANGELO
RIO CONCHO SPORTS COMPLEX
San Angelo, Texas

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	16-E-0929

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