USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

4290 COLUMBIAN ROAD WAMEGO, KS

ORIGINAL CONTRACT DOCUMENTS

Owner:

USD 320 SCHOOL DISTRICT

1008 8TH ST.
WAMEGO, KS 66547

ARCHITECT:

BBN ARCHITECTS, INC.
228 POYNTZ AVE.
MANHATTAN, KS 66502
TELEPHONE: (785) 776-4912

MEP ENGINEER:

ORAZEM & SCALORA ENGINEERING, P.A.
2312 ANDERSON AVE.
MANHATTAN, KS 66502

STRUCTURAL ENGINEER:

DUDLEY WILLIAMS AND ASSOCIATES, P.A.
230 S LAURA SUITE #200
WICHITA, KS 67211

CIVIL ENGINEER:

SMH CONSULTANTS
2017 VANESTA PL.
MANHATTAN, KS 66503

PROJECT DESCRIPTION:

NEW LOCKER ROOM, CONCESSIONS, AND MEETING ROOM FOR THE SPORTS COMPLEX TO REPLACE THE EXISTING LOCKER ROOM.

INDEX TO DRAWINGS:

GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS & DETAILS.

2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.

3. DESIGN DOCUMENTS HAVE BEEN PREPARED DESCRIBING GENERAL REQUIREMENTS FOR WORK AT THE EXISTING SITE. IDENTIFICATION OF EXISTING CONDITIONS, SHOWN ON THE PLANS, IS BASED ON A GENERAL REVIEW OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

4. THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

5. CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.

6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS TO THE PROJECT SITE.

7. WHERE DISCREPANCIES EXIST IN THE DOCUMENTS THE MOST STRINGENT SHALL APPLY.

8. PATCH, FINISH AND REPAINT ANY WALLS, FLOOR AND CEILINGS DAMAGED OR REMOVED WHILE INSTALLATION OF NEW WATER PIPING.

9. REMOVE AND DISPOSE OF ALL EXISTING FIXTURES, CASEWORK, PARTITIONS, CEILINGS, INSULATION, AND ALL OTHER FINISHES REQUIRED PRIOR TO RENOVATION WORK.

BBN

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
COVER SHEET

Sheet:
T101

Of:

GENERAL INFORMATION

LOCATION: **USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS**
4290 COLUMBIAN ROAD
WAMEGO, KS

OWNER INFORMATION: **USD 320 SCHOOL DISTRICT**
1008 8TH
ST.WAMEGO, KS
66547

RESPONDING FIRE DEPARTMENT: **WAMEGO FIRE DEPARTMENT**
428 LINCOLN AVE.
WAMEGO, KS 66547
(785) 456-9553

ARCHITECT: BBN ARCHITECTS, INC.
228 POYNTZ AVE.
MANHATTAN, KS 66502
TELEPHONE: (785) 776-4912

PROJECT CONSTRUCTION PURPOSE FOR SUBMITTAL: **NEW CONSTRUCTION**

AUTHORITIES HAVING JURISDICTION: **WAMEGO FIRE DEPARTMENT**
428 LINCOLN AVE.
WAMEGO, KS 66547
(785) 456-9553

PROJECT DESCRIPTION

NEW CONSTRUCTION FOR LOCKER ROOM, MEETING, CONCESSIONS AND PUBLIC RESTROOM FACILITITES. REPLACING EXISTING LOCKER ROOM BUILDING.

APPLICABLE CODES

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL ENERGY CODE

2011 NATIONAL ELECTRIC CODE
2012 INTERNATIONAL FIRE CODE
KANSAS FIRE PREVENTION CODE
2010 ADA STANDARD FOR ACCESSIBLE DESIGN
2010 ASHRAE 90.1

2010 NFPA 10
2010 NFPA 13
2010 NFPA 14
2010 NFPA 25
2010 NFPA 72
2003 NFPA 92B

BUILDING HEIGHTS AND AREAS

BASIC ALLOWABLE AREA AND HEIGHT:

ALLOWABLE AREA: 9,500 S.F.

ALLOWABLE HEIGHT: 40 FEET

ACTUAL AREA: 7,382 S.F.

ACTUAL HEIGHT: 17'-10"

CONSTRUCTION CLASSIFICATION

CONSTRUCTION TYPE: **V-B**

STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS & TRUSSES:	0-HR
BEARING EXTERIOR WALLS:	0-HR
BEARING INTERIOR WALLS:	0-HR
NONBEARING EXTERIOR WALLS (<30' FROM ADJACENT BUILDING OR PROPERTY LINE):	0-HR
NONBEARING INTERIOR WALLS:	0-HR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:	0-HR
ROOF CONSTRUCTION INCLUDING SUPPORITNG BEAMS & JOISTS:	0-HR

OCCUPANCY CLASSIFICATION

GROUP E (EDUCATIONAL)

EXIT WIDTH FACTORS

STAIRS: .30" / PERSON
DOORS, LEVEL SURFACES, RAMPS: 20" / PERSON

NON-CONFORMING ITEMS

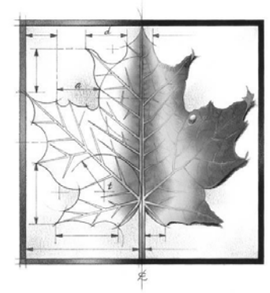
PASSIVE LIFE SAFETY SYSTEMS

CORRIDOR RATINGS:	1-HOUR
EXIT STAIR ENCLOSURES:	1-HR WITH 45-MINUTE DOORS
SHAFTS:	1-HR WITH 45-MINUTE DOORS
OCCUPANCY SEPERATIONS:	NONE

ACTIVE LIFE SAFETY SYSTEMS

FIRE ALARM:	REQUIRED/PROVIDED	PER IBC SECTIONS 907.2
FACP:	REQUIRED/PROVIDED	
EMERGENCY VOICE ALARM COMMUNICATION:	REQUIRED/PROVIDED	PER IBC SECTION 907.5.2.2
REMOTE ANNUNCIATIOR PANEL:	REQUIRED/PROVIDED	
SMOKE DETECTION:	NOT REQUIRED/NOT PROVIDED	
EXIT SIGNS:	REQUIRED/PROVIDED	BATTERY BACKUP
EMERGENCY LIGHTS:	REQUIRED/PROVIDED	BATTERY BACKUP
BACKUP POWER:	NOT REQUIRED/NOT PROVIDED	
STANDPIPES:	NOT REQUIRED/NOT PROVIDED	
AUTOMATIC SPRINKLERS:	NOT REQUIRED/NOT PROVIDED	
FIRE EXTINGUISHERS:	REQUIRED/PROVIDED	MULTI-PURPOSE CLASS 4A-80B:C 10 LBS
FIRE PUMP:	NOT REQUIRED/ NOT PROVIDED	
PRESSURIZED EXIT STAIRS:	NOT REQUIRED/ NOT PROVIDED	
PRESSURIZED ELEVATORS:	NOT REQUIRED/ NOT PROVIDED	
MANUAL PULL STATIONS:	REQUIRED/PROVIDED	

SYMBOL	DESCRIPTION	PROTECTIVE ELEMENTS/NOTES
	EXIT - EXTERIOR	
	EXIT - INTERIOR	EXITS FROM FLOOR OR ASSEMBLY OCCUPANTS OVER 50 OCCUPANTS
	FIRE EXTINGUISHER	
	FIRE EXTINGUISHER SPACING	75' RADIUS SHOWN ON FLOOR PLANS
	NON PROTECTED EXIT PATH	[NONE] OR [NONE-PER EXCEPTION FO FULLY SPRINKLERED A, B, E, F, M, S, U OCCUPANCY] OR [1-2 OCCUPANCY SMOKE PARTITION WALLS (NO FIRE RESISTIVE WALL RATING. DOORS LIMIT TRANSFER OF SMOKE AND SHALL HAVE POSITVE LATCHING.]
1 1	1 HOUR EXIT PASSAGEWAY	1-HOUR FIRE BARIER WALL CONSTRUCTION. NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1-HOUR DOOR ASSEMBLY.
2 2	2 HOUR EXIT PASSAGEWAY	2-HOUR FIRE BARIER WALL CONSTRUCTION. NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1 1/2-HOUR DOOR ASSEMBLY.
1 1	1 HOUR EXIT STAIR ENCLOSURE (<3 STORIES OR LESS)	1-HOUR FIRE BARIER WALL CONSTRUCTION. NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1-HOUR DOOR ASSEMBLY.
2 2	2 HOUR EXIT STAIR ENCLOSURE (<4 STORIES OR LESS)	2-HOUR FIRE BARIER WALL CONSTRUCTION. NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1 1/2-HOUR DOOR ASSEMBLY.
	1 HOUR FIRE BARRIER (OCC & INCIDENTAL USE)	1-HOUR FIRE BARIER WALL CONSTRUCTION. 3/4-HOUR DOOR ASSEMBLY. FIRE DAMPERS.
	2 HOUR FIRE BARRIER (OCC)	2-HOUR FIRE BARIER WALL CONSTRUCTION. 1 1/2-HOUR DOOR ASSEMBLY. FIRE DAMPERS.
1 1	1 HOUR SHAFT (3 STORIES OR LESS)	1-HOUR FIRE BARRIER WALL CONSTRUCTION. 1-HOUR DOOR ASSEMBLY. FIRE/SMOKE DAMPERS
2 2	1 HOUR SHAFT (3 STORIES OR LESS)	1-HOUR FIRE BARRIER WALL CONSTRUCTION. 1-HOUR DOOR ASSEMBLY. FIRE/SMOKE DAMPERS
	SPRINKLERED INCIDENTAL USE AREAS	WALL CONSTRUCTION TO RESIST THE PASSAGE OF SMOKE FROM THE FLOOR TO FIRE-RATED FLOOR/CEILING ASSEMBLY. SELF-OR AUTOMATIC-CLOSING DOORS WITH NO AIR TRANSFER GRILLES.
198/39.6" / 68"	ACCUMULATED EXIT WIDTH AT REQUIRED EXIT (CLEAR WIDTH)	OCCUPANTS / REQUIRED WIDTH PROVIDED WIDTH
	PUBLIC FIRE HYDRANT	DISTANCE FROM BUILDING SHOWN ON SITE PLAN
CONF./A4 / 65	ROOM DESIGNATION	ROOM TYPE / OCCUPANCY TPE MAXIMUM ALLOWABLE OCCUPANTS
80 / 40	ACCUMULATED OCCUPANT LOADS FOR COMPLEX PATHS	
	NON-WORK AREAS	EXISTING CONSTRUCTION NOT INCLUDED IN TEH RENOVATION PROJECT. ALL OTHER AREAS ARE EXITING CONSTRUCTION TO BE REMODELED
	SPRINKLER/STANDPIPE RISER	
	FIRE DEPARTMENT CONNECTION	
FACP	FIRE ALARM CONTROL PANEL	
ANN	FIRE ALARM ANNUCIATOR PANEL	
	FIRE DEPARTMENT KNOX BOX	
	EXIT SIGN	



BBN ARCHITECTS INC
228 POYNTZ AVENUE,
MANHATTAN, KANSAS 66502
PH: 785-776-4912
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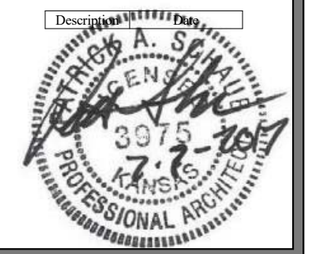
Description Date



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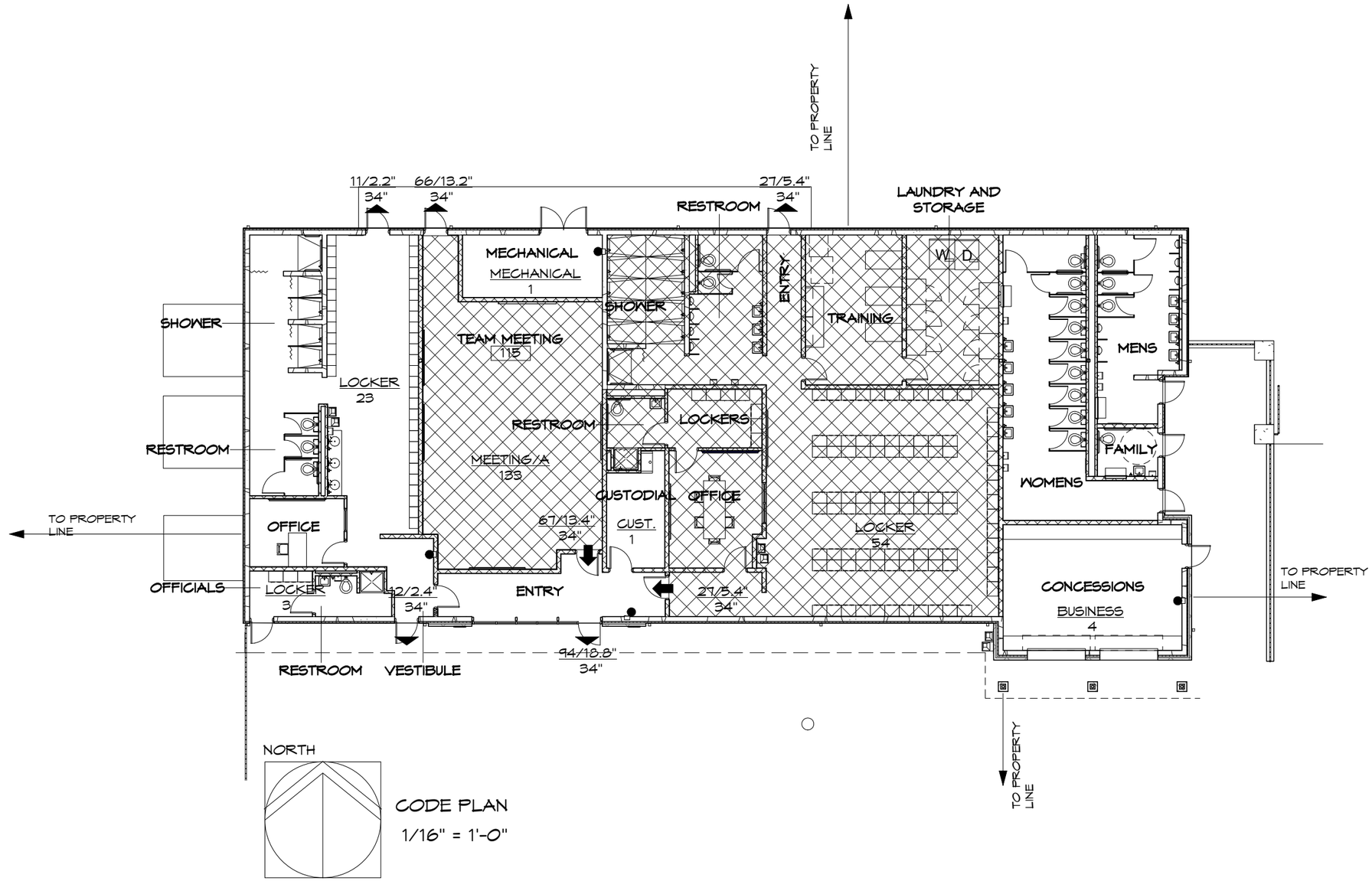
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:

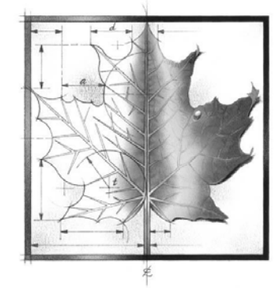
CODE REVIEW

Sheet:
CF101



CODE PLAN

1/16" = 1'-0"



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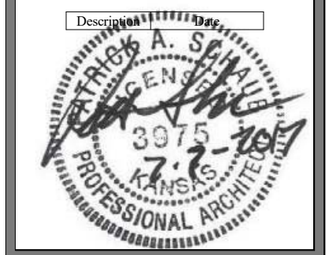

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4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

CODE PLAN

Sheet:

CF102

LEGEND

- EXISTING CONCRETE TO BE REMOVED
- EXISTING CONCRETE TO REMAIN
- EXISTING ASPHALT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED & STOCKPILED
- EXISTING BUILDING TO BE REMOVED
- PROPOSED BUILDING
- WATER STRUCTURES
- TELEPHONE STRUCTURES
- SANITARY SEWER SERVICE LINE
- WATER SERVICE LINE
- GAS LINE
- FIBER OPTIC CABLE
- UNDERGROUND ELECTRIC

NOTES:

CONTRACTOR TO COORDINATE ALL DEMOLITION AND PHASING OF DEMOLITION WITH ARCHITECT.

ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF THE PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

FOR CONSTRUCTION OF NEW SIDEWALK, PARTIAL PANEL REMOVAL OF EXISTING SIDEWALK WILL NOT BE ALLOWED. IF A PARTIAL PANEL IS REMOVED THEN ENTIRE PANEL SHALL BE REMOVED AND REPLACED AS NEEDED.

ALL TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.

TREES AND SHRUBS WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN CONFLICT WITH PROPOSED NEW CONSTRUCTION AND NOT SHOWN TO BE REMOVED SHALL BE SAVED AND PROTECTED FROM DAMAGE.

TREE PROTECTION MEASURES SHALL BE IMPLEMENTED FOR ANY TREE WHICH WILL HAVE CONSTRUCTION ACTIVITY LOCATED WITHIN 5 FEET OF THE DRIP LINE.

MINIMIZE DISTURBANCE OF ROOTS WITHIN DRIP LINES OF TREES WHERE CONSTRUCTION ACTIVITY IS PLANNED.

INSTALL TEMPORARY TREE PROTECTION MEASURES PRIOR TO COMMENCING ANY REMOVAL OR SITE DEMOLITION WORK. INSPECT TREE PROTECTION FENCE DAILY, AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION. REMOVE FENCE WHEN CONSTRUCTION IS COMPLETE.

DO NOT STORE MATERIALS, DEBRIS, OR SALVAGED OR EXCAVATED MATERIALS INSIDE THE TREE PROTECTION ZONE. DO NOT PARK VEHICLES OR EQUIPMENT INSIDE THE TREE PROTECTION ZONE.

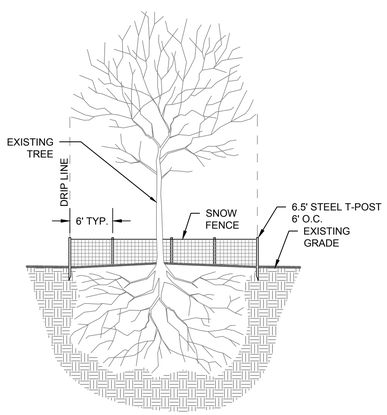
ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE. NO ON-SITE BURYING OF DEBRIS WILL BE ALLOWED.

ALL HAUL SITES SELECTED FOR COLLECTION OF DEBRIS SHALL BE APPROVED BY THE OWNER/ENGINEER.

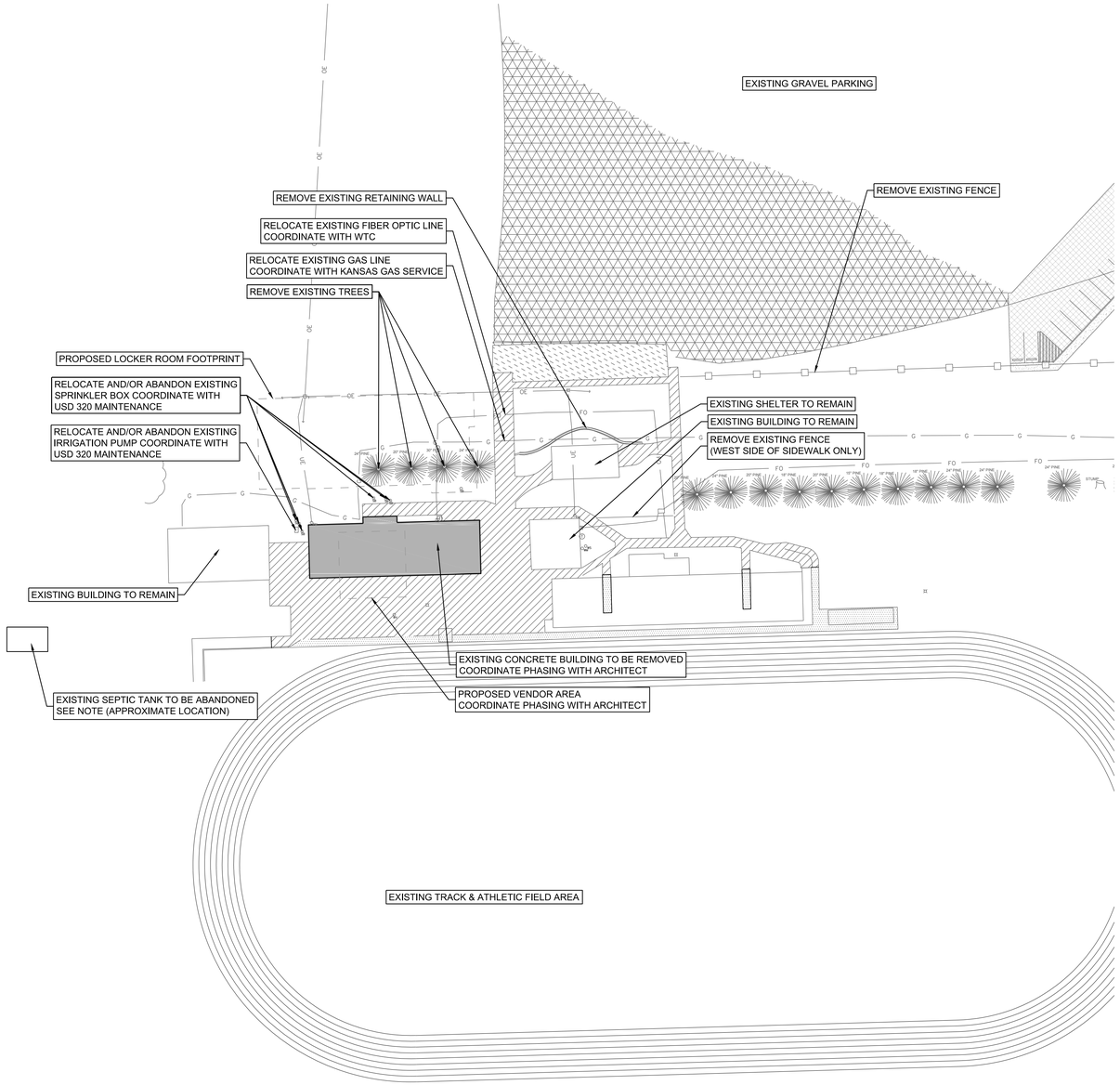
IN LOCATIONS WHERE PROPOSED IMPROVEMENTS ARE NOT LOCATED, REMOVE STUMPS, ROOTS, AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE TO A DEPTH OF 24 INCHES BELOW FINISH SUBGRADE ELEVATION. IN ALL OTHER LOCATIONS COMPLETE REMOVAL IS REQUIRED.

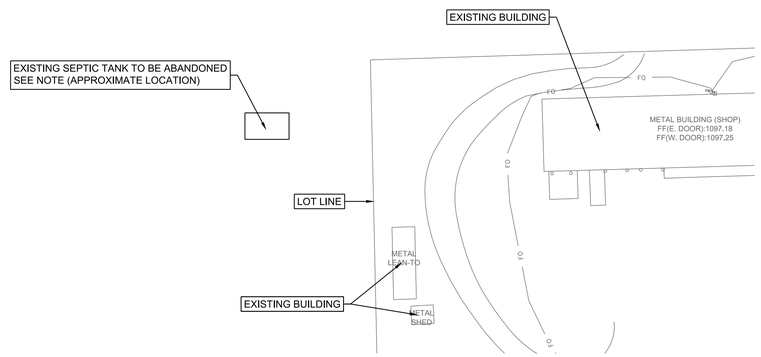
EXISTING SEPTIC TANKS SHALL BE PUMPED EMPTY, TOP CRUSHED IN, AND BACKFILLED WITH SAND. ALL OTHER LINES MAY BE CAPPED. COORDINATE SEPTIC TANK ABANDONMENT WITH:

SCOTT SCHWINN, R.S.
COUNTY SANITARIAN
612 E. CAMPBELL ST.
WESTMORELAND, KS 66549
785-457-3397



TREE PROTECTION DETAIL
NOT TO SCALE





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BRETT LOUIK
23760
7-7-17
KANSAS
PROFESSIONAL ENGINEER

40' 20' 0' 40'
SCALE: 1" = 40'

REV	DESCRIPTION	DATE

Project Number: **16036**

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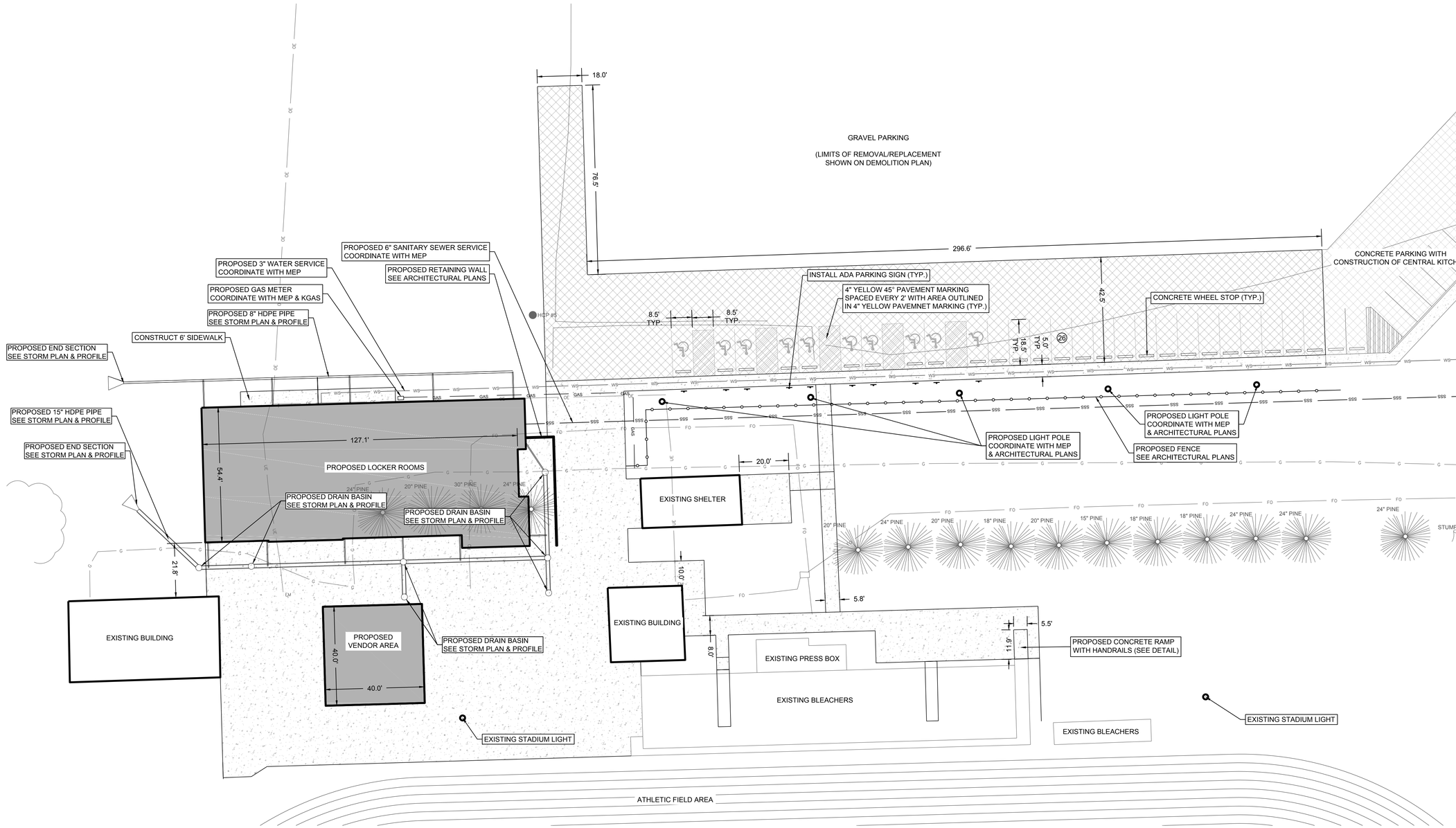
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
DEMOLITION PLAN

Sheet: **C1**

Of:



NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM APPROPRIATE REGULATORY AGENCIES (IF APPLICABLE) PRIOR TO COMMENCING THE WORK.

ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF THE PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

WHEELCHAIR SYMBOLS ARE NOT INCLUDED IN SCOPE OF WORK. SHOWN TO DEPICT LOCATION OF ACCESSIBLE STALLS FOR PERMITTING.

ALL EXISTING SIDEWALKS ARE TO REMAIN UNLESS OTHERWISE NOTED.

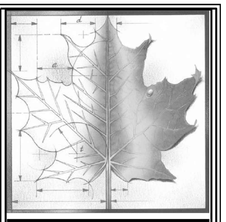
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.

ALL CONSTRUCTION PHASING OF PROPOSED IMPROVEMENTS TO BE COORDINATED WITH ARCHITECT.

LEGEND

- CONCRETE PARKING LOT
- PROPOSED CONCRETE SIDEWALK
- SSS — SANITARY SEWER SERVICE LINE
- WS — WATER SERVICE LINE
- GAS — GAS LINE
- FO — FIBER OPTIC CABLE
- UE — UNDERGROUND ELECTRIC



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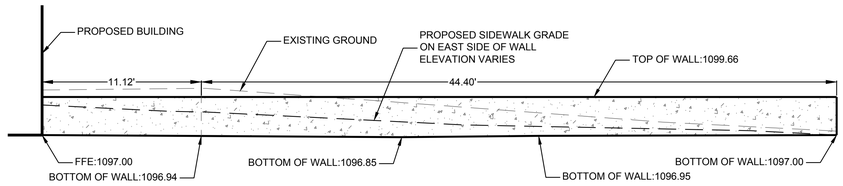
Sheet Title:
SITE PLAN

Sheet: **C2**

OF:



CONCRETE RETAINING WALL A-A DETAIL

NOT TO SCALE

HORIZONTAL CONTROL

HCP #5:	N:323148.454	E:1786593.193	ELEV:1103.28
HCP #6:	N:323053.717	E:1787026.513	ELEV:1093.44
HCP #7:	N:322421.159	E:1787060.645	ELEV:1093.33
HCP #8:	N:322631.502	E:1786831.935	ELEV:1095.92

NOTE: HCPS 6, 7, & 8 ARE NOT VISIBLE ON THIS SHEET.

NOTES:

ALL SOIL BROUGHT TO THE SITE AND IN SITU SHALL BE COMPACTED BY ROLLING WITH A SHEEPSFOOT ROLLER OR BY MECHANICAL TAMPING. THE SHEEPSFOOT ROLLER, WHEN FULLY LOADED, SHALL HAVE A LOAD ON EACH TAMPER FOOT NO LESS THAN 200 POUNDS PER SQUARE INCH OF CROSS-SECTIONAL AREA. ENOUGH MOISTURE SHALL BE PRESENT IN THE SOIL TO OBTAIN A DENSITY EQUAL TO OR GREATER THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST BEFORE PLACING THE NEXT LIFT. EACH LIFT SHALL CONSIST OF 8-INCH LOOSE LIFTS OR LESS PRIOR TO COMPACTION. FILL MATERIAL SHALL BE APPROVED BY A LICENSED ENGINEER.

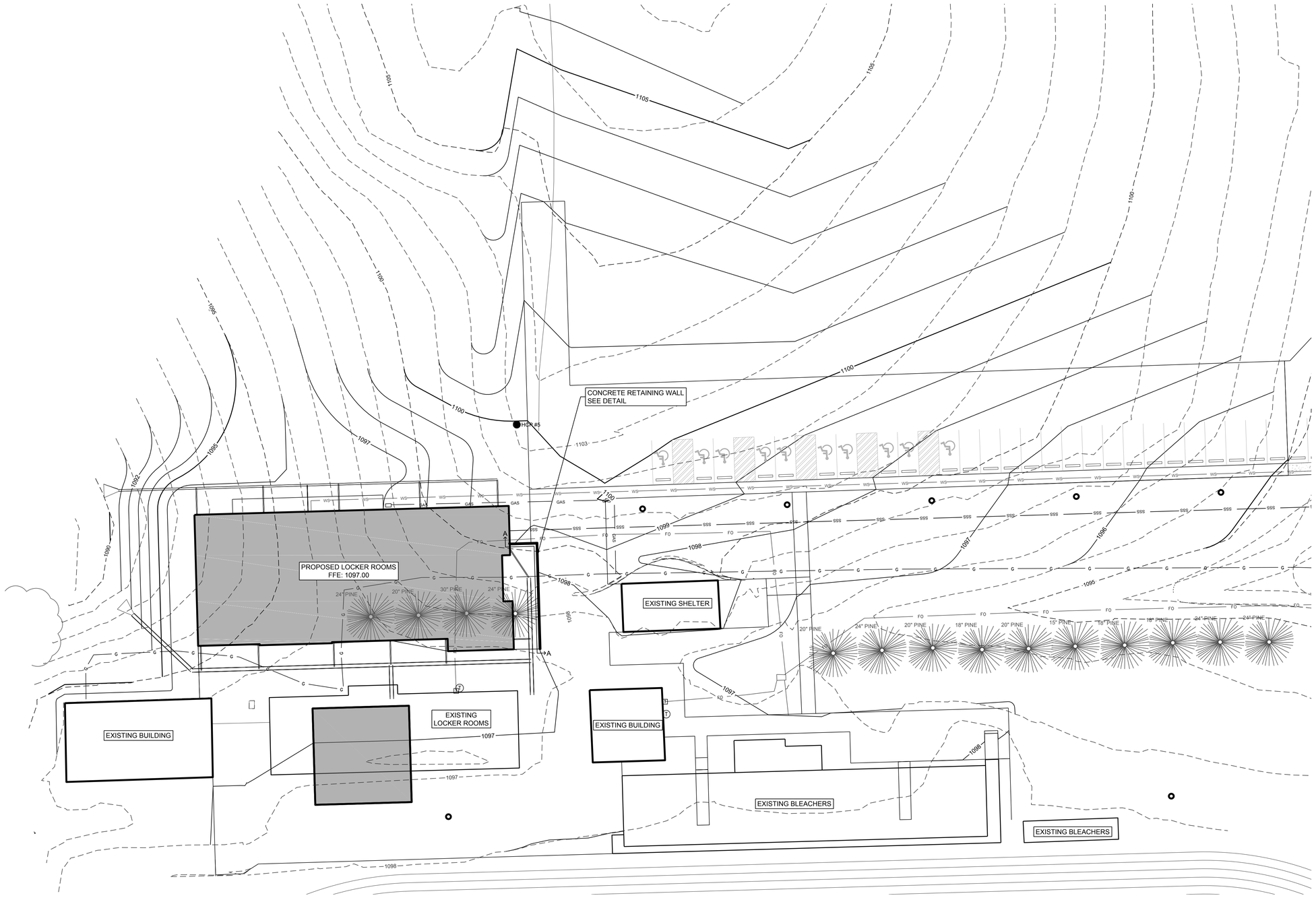
THE CROSS SLOPES OF ALL SIDEWALKS SHALL BE 2% OR LESS.

ALL GRADE AGAINST THE BUILDING SHALL BE 3" BELOW FINISH FLOOR UNLESS OTHERWISE SPECIFIED.

ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.

ALL GRAVEL WITHIN THE GRADING LIMITS SHALL BE STRIPPED AND STOCKPILED. STRIPPED GRAVEL SHALL BE COMBINED WITH AB-3 AND RE-APPLIED WITHIN GRAVEL PARKING AREA.

DUE TO EXISTING LOCKER ROOM REMAINING IN PLACE AND OPERATIONAL AS NEW BUILDING IS CONSTRUCTED, CONTRACTOR TO ENSURE THAT AREA BETWEEN EXISTING AND PROPOSED BUILDINGS WILL DRAIN UNTIL EXISTING BUILDING IS DEMOLISHED AND REMAINING CONSTRUCTION IN PLAZA AREA IS COMPLETED.



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**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:
GRADING PLAN

Sheet:
C3

Of:

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3014	323111.01	1786459.47	1096.50	FG
3015	323111.47	1786475.36	1097.00	EOS
3016	323117.46	1786475.19	1096.88	EOS
3017	323119.24	1786537.64	1096.97	EOS
3018	323113.24	1786537.81	1097.00	EOS
3019	323114.71	1786589.83	1099.88	FG
3020	323099.10	1786590.27	1099.10	FG/BW
3021	323094.31	1786590.41	1097.00	EOS
3022	323094.21	1786587.08	1097.00	EOS
3023	323075.09	1786587.62	1097.00	EOS
3024	323075.20	1786591.41	1097.00	EOS
3025	323055.21	1786591.98	1097.00	EOS
3026	323054.43	1786564.65	1097.00	EOS
3027	323059.56	1786564.51	1097.00	EOS
3028	323058.20	1786516.53	1097.00	EOS
3029	323057.74	1786516.54	1097.00	EOS
3030	323057.34	1786486.54	1097.00	EOS
3031	323056.89	1786486.55	1097.00	EOS
3032	323056.62	1786461.01	1097.00	EOS
3034	323099.35	1786599.06	1098.66	EOS/BW
3035	323099.43	1786601.72	1098.61	EOS/BW
3036	323099.07	1786601.40	1096.94	EOS/BW
3037	323085.06	1786601.80	1096.86	EOS/BW

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3038	323084.96	1786598.19	1096.78	AI/TOP
3039	323081.39	1786602.25	1097.71	EOS/BW
3040	323061.39	1786602.84	1097.31	EOS/BW
3041	323055.35	1786603.01	1097.01	EOS/BW
3042	323055.35	1786602.64	1097.00	EOS/BW
3043	323098.75	1786590.28	1097.00	EOS/BW
3044	323116.63	1786598.57	1099.53	EOS
3045	323121.62	1786598.43	1099.43	EOS
3046	323117.70	1786629.89	1100.06	EOS
3047	323122.69	1786629.72	1099.96	EOS
3048	323120.35	1786707.35	1098.64	EOS
3049	323125.35	1786707.18	1098.59	EOS
3050	323120.55	1786713.24	1098.53	EOS
3051	323125.55	1786713.06	1098.49	EOS
3055	323240.70	1786595.05	1101.81	EOP
3056	323241.22	1786613.04	1102.17	EOP
3057	323164.72	1786615.21	1100.67	EOP
3060	323084.99	1786708.90	1097.18	EOS
3062	323078.00	1786709.21	1097.04	EOS
3063	323084.55	1786696.58	1097.80	EOS
3064	323077.55	1786696.95	1097.66	EOS
3065	323064.53	1786697.64	1097.63	EOS
3066	323083.83	1786676.59	1098.20	EOS

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3067	323063.83	1786677.65	1098.03	EOS
3068	323061.65	1786715.77	1096.29	EOS
3069	323061.39	1786709.94	1096.41	EOS
3070	323028.42	1786711.39	1096.97	EOS
3071	323028.59	1786717.21	1096.95	EOS
3072	323028.98	1786731.10	1097.06	EOS
3073	323030.56	1786786.93	1097.76	EOS
3074	323030.72	1786792.43	1097.82	EOS
3075	323030.85	1786797.06	1097.88	EOS
3076	323021.62	1786797.32	1098.00	EOS
3077	323009.86	1786797.66	1098.25	EOS
3078	323009.57	1786793.03	1098.90	TOR
3079	323009.41	1786787.53	1098.90	TOR
3080	323009.73	1786793.12	1098.21	EOS
3081	323009.57	1786787.43	1098.15	EOS
3082	323021.49	1786792.69	1097.91	BOR
3083	323021.33	1786787.19	1097.91	BOR
3084	323008.69	1786756.31	1097.64	EOS
3085	323008.55	1786751.42	1097.60	EOS
3086	323007.99	1786731.70	1097.37	EOS
3087	323020.98	1786731.33	1097.22	EOS
3088	323019.30	1786672.07	1097.22	EOS
3089	323010.30	1786672.33	1097.54	EOS

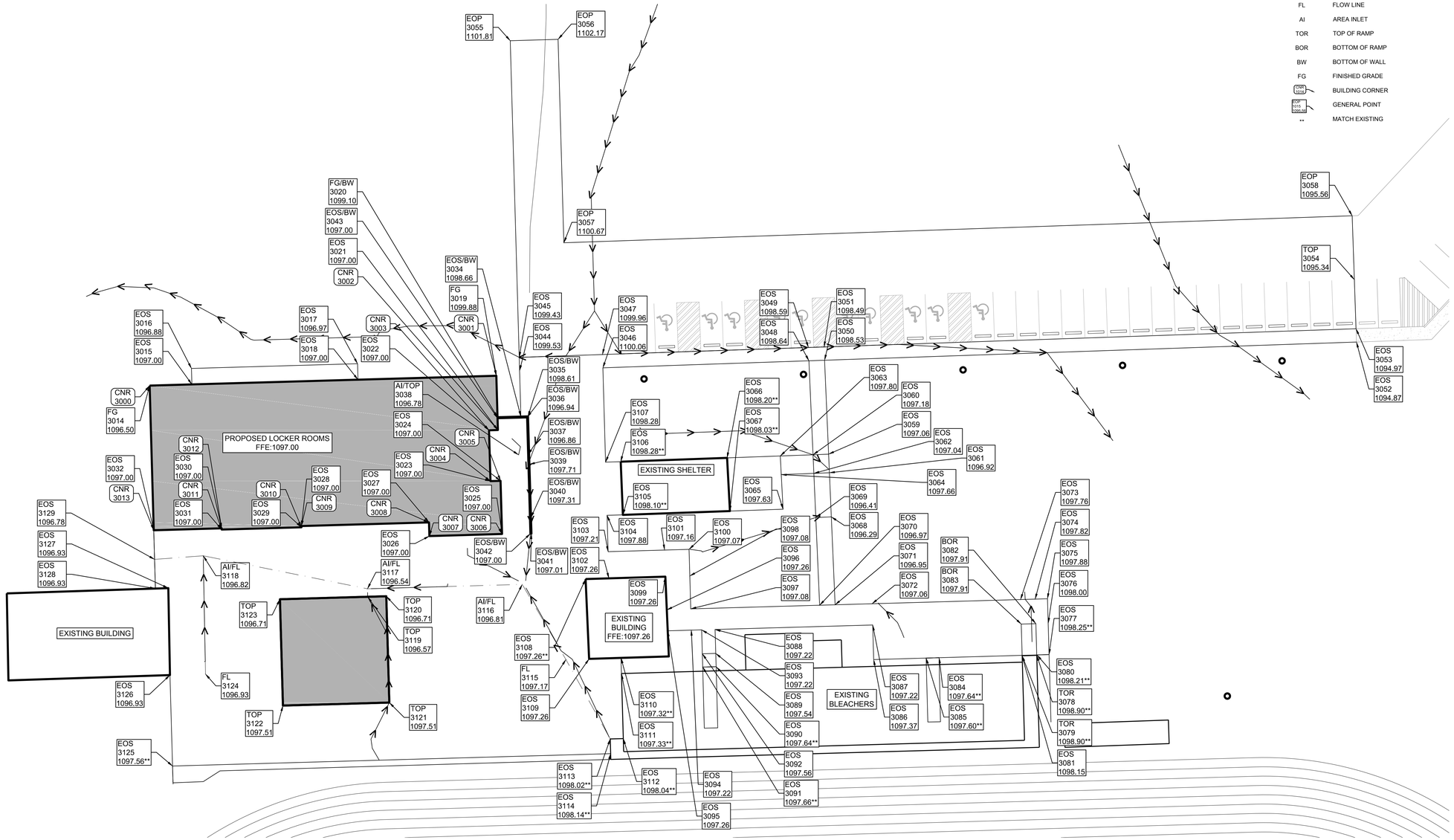
COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3090	323005.30	1786672.47	1097.64	EOS
3091	323005.16	1786667.42	1097.66	EOS
3092	323010.16	1786667.28	1097.56	EOS
3093	323019.16	1786667.03	1097.22	EOS
3094	323019.05	1786663.14	1097.22	EOS
3095	323018.80	1786654.27	1097.26	EOS
3096	323026.65	1786653.92	1097.26	EOS
3097	323027.04	1786662.91	1097.08	EOS
3098	323039.43	1786662.56	1097.08	EOS
3099	323039.17	1786653.37	1097.26	EOS
3100	323049.42	1786662.28	1097.07	EOS
3101	323049.16	1786653.09	1097.16	EOS
3102	323038.53	1786632.15	1097.26	EOS
3103	323048.56	1786631.85	1097.21	EOS
3104	323062.23	1786631.46	1097.88	EOS
3105	323062.40	1786637.40	1098.10	EOS
3106	323082.39	1786636.59	1098.28	EOS
3107	323082.23	1786630.89	1098.28	EOS
3108	323038.26	1786623.38	1097.26	EOS
3109	323008.26	1786624.70	1097.26	EOS
3110	323008.62	1786636.69	1097.32	EOS
3111	323002.74	1786636.87	1097.33	EOS
3112	322978.27	1786637.56	1098.04	EOS

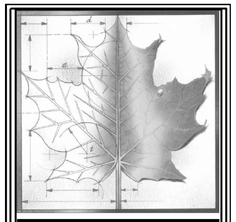
COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3113	322978.13	1786632.66	1098.02	EOS
3114	322972.59	1786632.81	1098.14	EOS
3115	323007.99	1786615.99	1097.17	FL
3116	323036.25	1786599.57	1096.81	AI/FL
3117	323034.60	1786541.37	1096.54	AI/FL
3118	323047.02	1786479.61	1096.82	AI/FL
3119	323031.60	1786541.46	1096.57	TOP
3120	323031.80	1786548.45	1096.71	TOP
3121	322991.81	1786549.58	1097.51	TOP
3122	322990.68	1786509.60	1097.51	TOP
3123	323030.66	1786508.46	1096.71	TOP
3124	323002.53	1786480.47	1096.93	FL
3125	322967.95	1786468.08	1097.56	EOS
3126	323002.15	1786467.11	1096.93	EOS
3127	323034.85	1786466.49	1096.93	EOS
3128	323034.69	1786461.63	1096.93	EOS
3129	323045.66	1786461.32	1096.78	EOS

BUILDING CORNERS			
POINT #	NORTHING	EASTING	DESCRIPTION
3000	323111.01	1786459.47	CNR
3001	323114.71	1786589.83	CNR
3002	323094.31	1786590.41	CNR
3003	323094.21	1786587.08	CNR
3004	323075.09	1786587.62	CNR
3005	323075.20	1786591.41	CNR
3006	323055.21	1786591.98	CNR
3007	323054.43	1786564.65	CNR
3008	323059.56	1786564.51	CNR
3009	323058.20	1786516.53	CNR
3010	323057.74	1786516.54	CNR
3011	323056.89	1786486.55	CNR
3012	323057.34	1786486.54	CNR
3013	323056.62	1786461.01	CNR

LEGEND

- PAVEMENT BREAK
- FLOW LINE
- CNR — BUILDING CORNER
- EOS — EDGE OF SIDEWALK
- EOP — EDGE OF PAVEMENT
- TOP — TOP OF PAVEMENT
- FL — FLOW LINE
- AI — AREA INLET
- TOR — TOP OF RAMP
- BOR — BOTTOM OF RAMP
- BW — BOTTOM OF WALL
- FG — FINISHED GRADE
- CNR 1015 1095.56 — BUILDING CORNER
- EOP 1015 1095.56 — GENERAL POINT
- ** — MATCH EXISTING





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BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760

BRETT LOUIK 23760 7-7-17 KANSAS PROFESSIONAL ENGINEER

20' 10' 0' 20'
SCALE: 1" = 20'

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

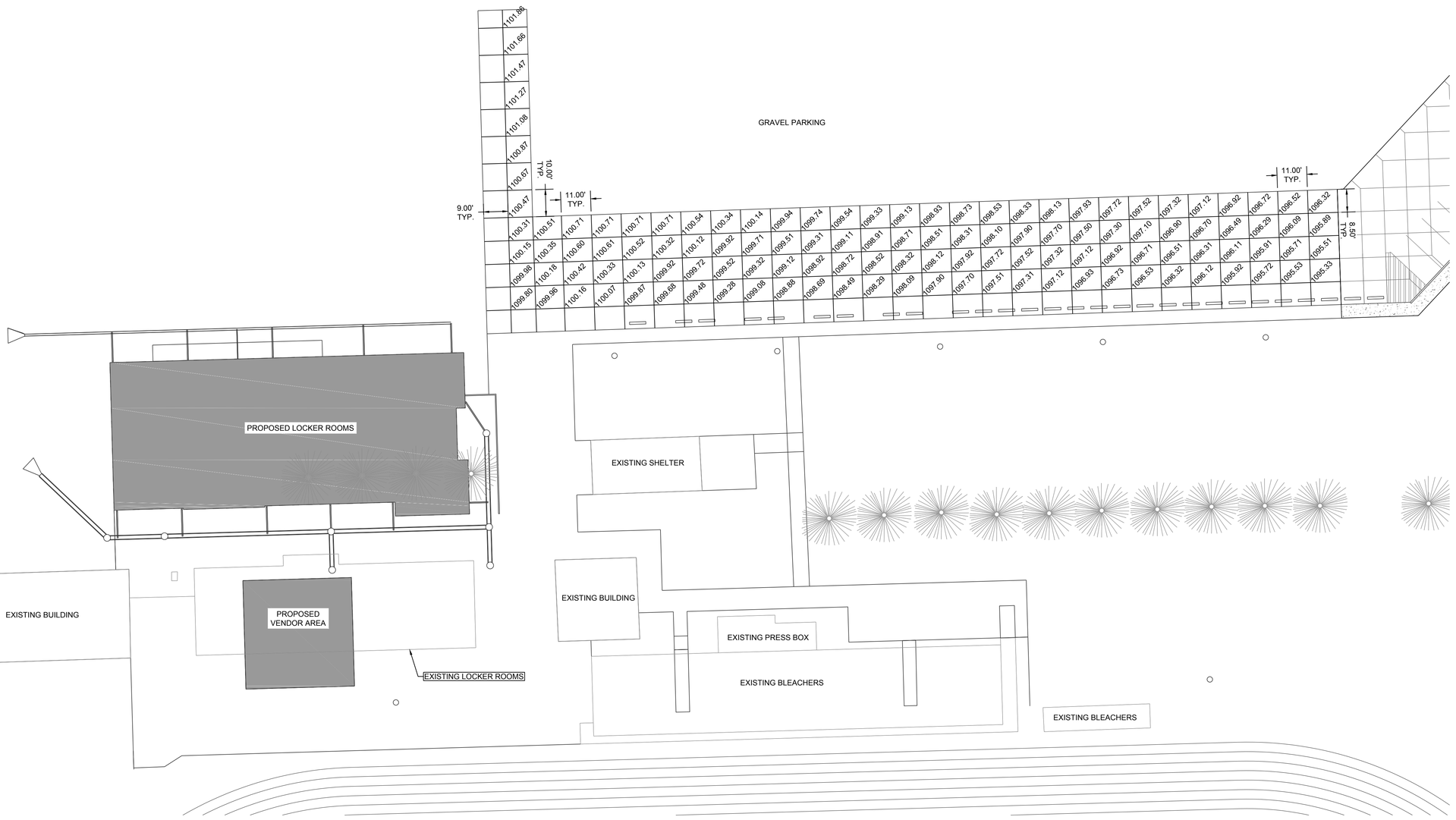
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

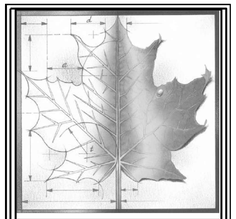
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
HORIZONTAL & VERTICAL CONTROL PLAN

Sheet: **C4**

Of:





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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760

20' 10' 0' 20'
SCALE: 1" = 20'

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

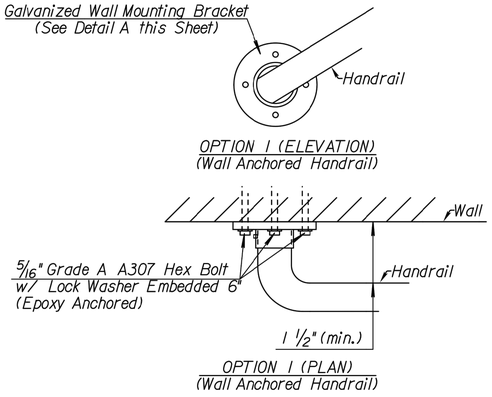
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

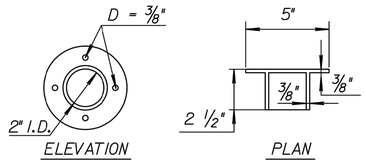
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

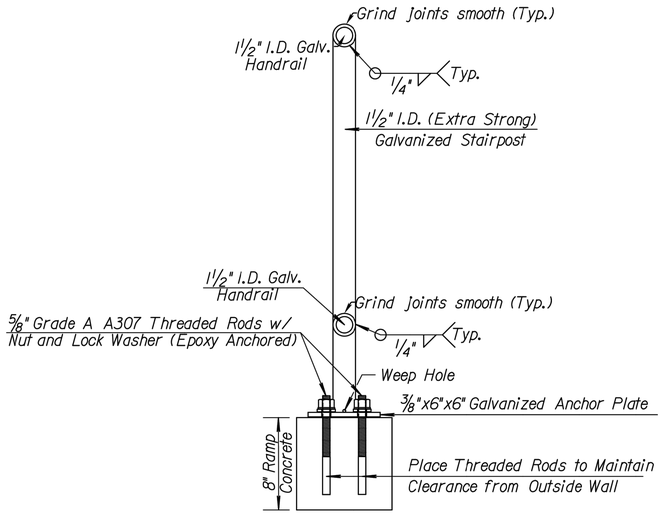
Sheet Title:
JOINT PLAN

Sheet:
C5

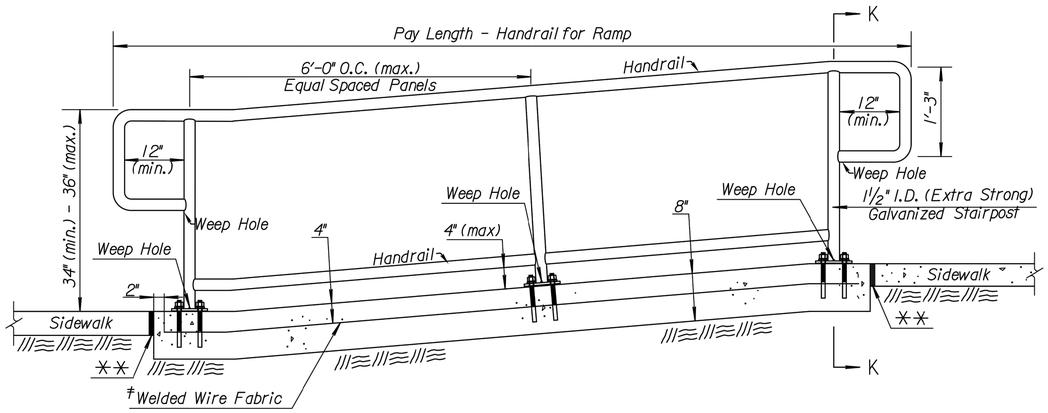
Of:





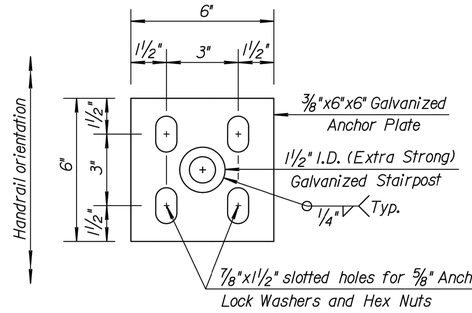


SECTION K-K

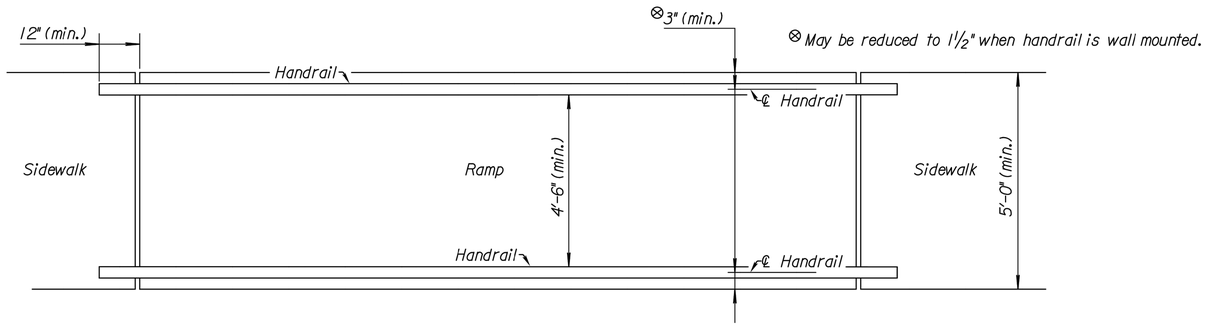


HANDRAIL WITH RAMP
(ELEVATION)

Note: Hand rail with floor-anchored posts shown here. For wall anchored handrail see Option I this sheet along with relevant details. For handrail with steps details see Standard Drawing RD725B.



PLAN- ANCHOR PLATE



HANDRAIL WITH RAMP
(PLAN)

GENERAL NOTES

Excavation for construction of Ramps will not be paid for directly, but will be Subsidiary to the bid item "Concrete (Grade 3.0) (AE)".

Handrail is required on ramps with a rise greater than 6 inches, except for curb ramps at crossing locations. Do not use hand rail for curb ramps. For a rise less than or equal to 6 inches handrail is optional. Handrail, if needed, is required on both sides of the ramp.

Fabricate handrail from 1 1/2" I.D. Galvanized Steel Pipe for Rail and 1 1/2" I.D. Galvanized Steel Pipe (Extra Strong) for floor-anchored posts. Handrail consists of equal spaced panels not to exceed 6'-0" O.C. (max.). Use galvanized bolts and hardware for fabrication or installation of handrail. Ground smooth all welded connections and re-galvanize any areas where the spelter coating has been damaged. Field welding is not permitted.

Details shown are typical. Shop drawings for Design shown and Alternate designs need to be submitted to the State Bridge Office for approval prior to handrail fabrication.

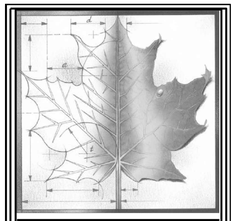
Required handrail materials, incidentals and labor are paid for under the bid item "Handrail". Payment for handrail is bid on a per linear foot basis measured as shown on this drawing.

‡ Macro-Fiber reinforcement may be used in lieu of welded wire. See KDOT's Standard Specifications for details.

The railing shown on this sheet is not intended for use where railing for fall protection is required.

✳✳ Non-Extruding Type B Joint filler or approved equivalent.

The wall mounting bracket shown on this sheet may be substituted with an approved equivalent as approved by the Engineer.



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BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

SMH
CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760

BRETT LOUIK
23760
7-7-17
KANSAS
PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

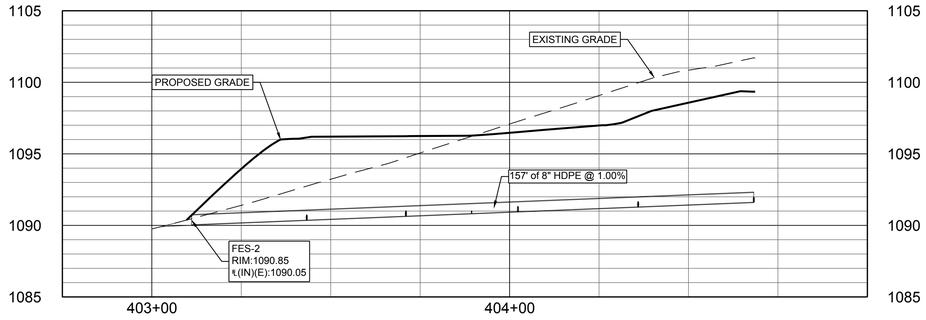
Project Address:
**4290 COLUMBIAN ROAD
WAMEGO, KS**

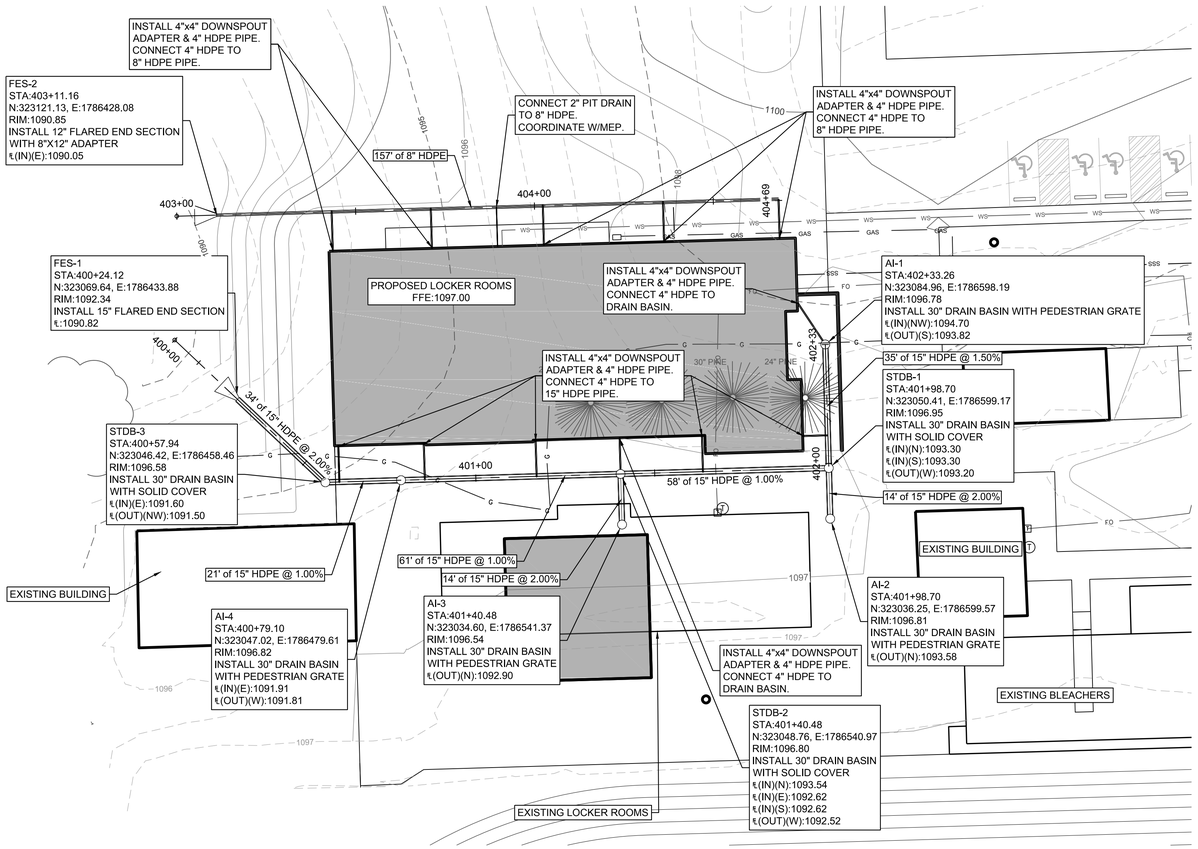
Sheet Title:
HANDRAIL DETAIL

Sheet: **C6**

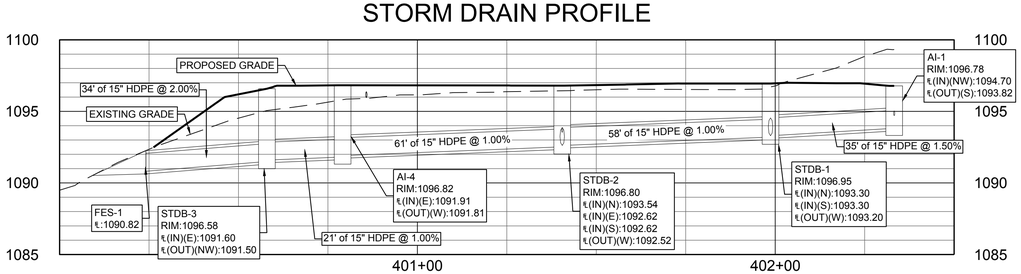
OF:

ROOF DRAIN PROFILE



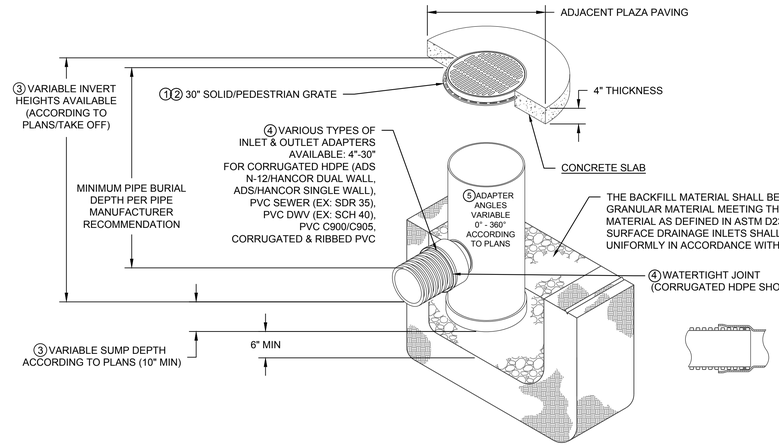


STORM DRAIN PROFILE



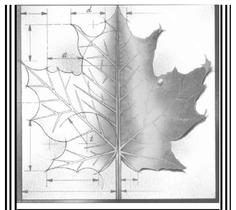
NYLOPLAST 30" DRAIN BASIN: 2830AG

NOT TO SCALE



1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" - 24")
5. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-013.

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com



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MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
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SMH
CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760

VERTICAL SCALE: 1" = 5'

SCALE: 1" = 20'

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

STORM P&P

Sheet:

C7

Of:

LEGEND

- 5' EXISTING CONTOUR
- 1' EXISTING CONTOUR
- 5' PROPOSED CONTOUR
- 1' PROPOSED CONTOUR
- SF — SF — SILT FENCE
- GENERAL DIRECTION OF FLOW, RUNOFF
- PERMANENT SEEDING

NOTES:
CONTRACTOR TO COMPLY WITH CITY OF WAMEGO STORM WATER MANAGEMENT REQUIREMENTS AS WELL AS THE PROVIDED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND SOIL EROSION AND SEDIMENT CONTROL PLAN.

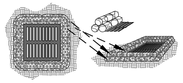
TEMPORARY SEEDING SHALL INCLUDE ALL DISTURBED SOIL UNLESS OTHERWISE NOTED AS PERMANENT SEEDING.

ALL INLETS SHALL BE ADEQUATELY PROTECTED DOWNSTREAM FROM CONSTRUCTION AREA

EXISTING VEGETATION SHALL BE MAINTAINED IN ALL AREAS AS STORM WATER POLLUTION PREVENTION WITH THE EXCEPTION OF THOSE AREAS NOTED TO BE DISTURBED ON THIS PLAN SHEET.

CONTRACTOR SHALL DESIGNATE TRUCK WASHOUT AREA.

CONSTRUCTION ENTRANCE IS INDICATED ON CENTRAL KITCHEN SESC PLAN.



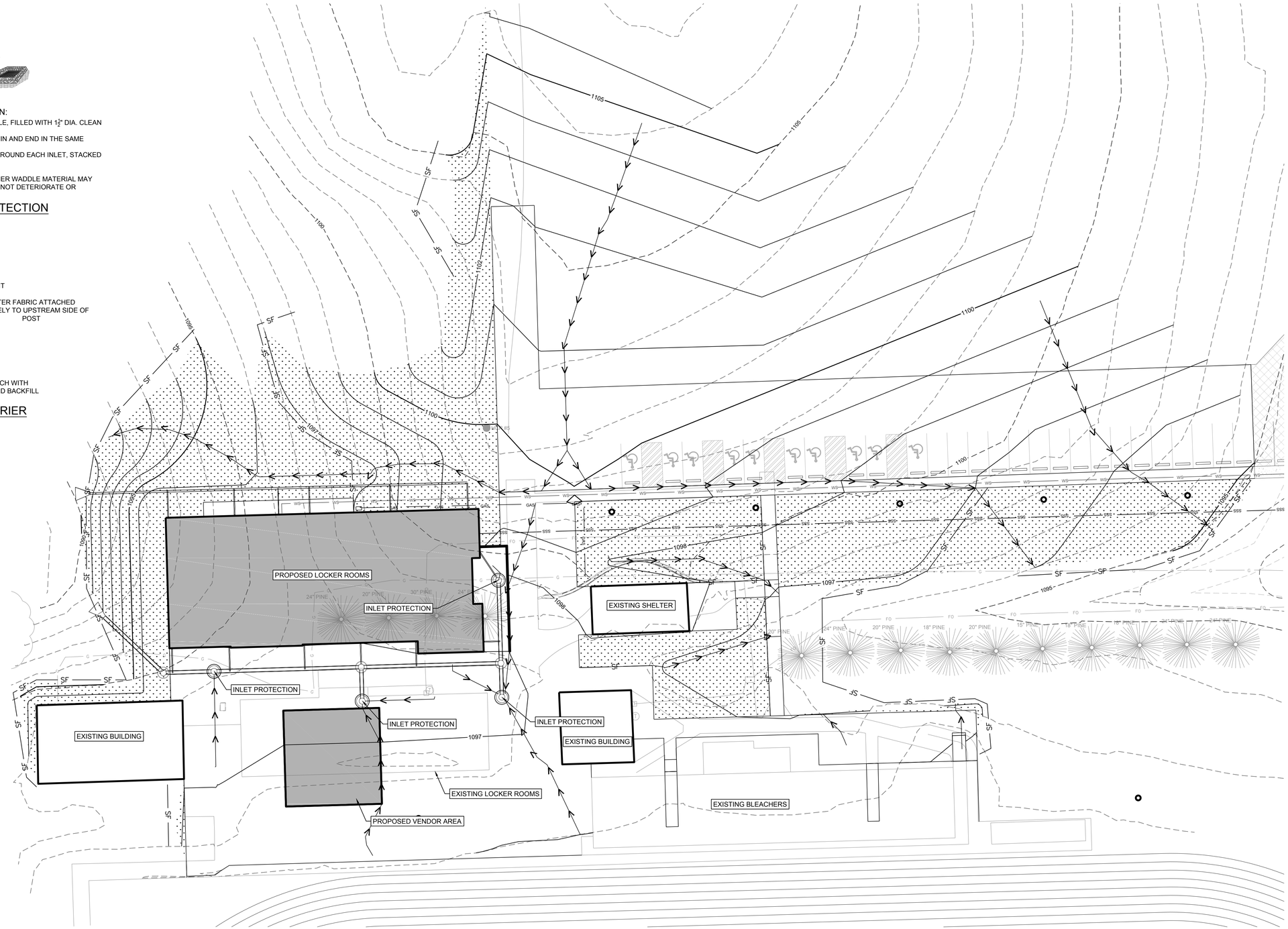
NOTES FOR AREA INLET PROTECTION:

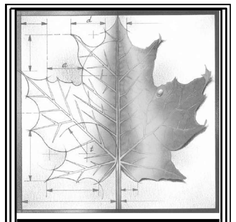
- SURROUND WIRE WRAPPED ROCK WATTLE, FILLED WITH 1½" DIA. CLEAN ROCK, AROUND AREA INLET AS SHOWN.
- INSURE EACH NEW WRAP DOES NOT BEGIN AND END IN THE SAME PLACE AS THE PREVIOUS.
- USE A MINIMUM OF THREE (3) WATTLES AROUND EACH INLET, STACKED AS SHOWN.

* WHERE CLEAN ROCK IS NOT AVAILABLE, OTHER WADDLE MATERIAL MAY BE SUBSTITUTED. SUITABLE MATERIAL WILL NOT DETERIORATE OR DECOMPOSE DUE TO AGE OR WEATHER.

AREA INLET PROTECTION

SILT FENCE BARRIER





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MANHATTAN, KANSAS 66502
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SMH
CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760

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20' 10' 0' 20'
SCALE: 1" = 20'

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

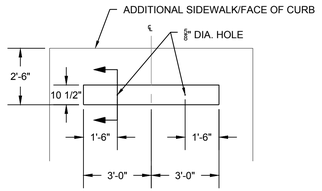
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
**4290 COLUMBIAN ROAD
WAMEGO, KS**

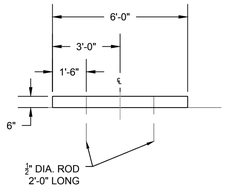
Sheet Title:
SESC PLAN

Sheet:
C8

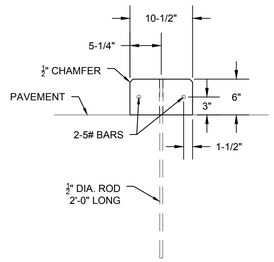
Of:



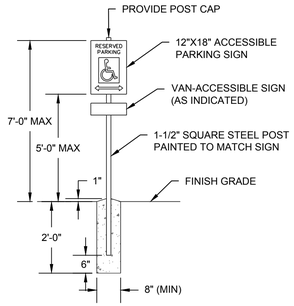
CONCRETE WHEEL STOP PLAN DETAIL
NOT TO SCALE



CONCRETE WHEEL STOP ELEVATION DETAIL
NOT TO SCALE



CONCRETE WHEEL STOP SECTION DETAIL
NOT TO SCALE



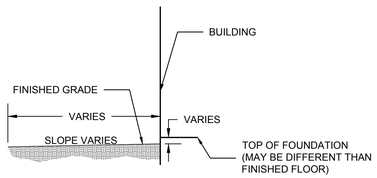
NOTE:

THE CONTRACTOR SHALL PROVIDE AN ACCESSIBLE PARKING SIGN FOR EACH ACCESSIBLE PARKING SPACE INDICATED.

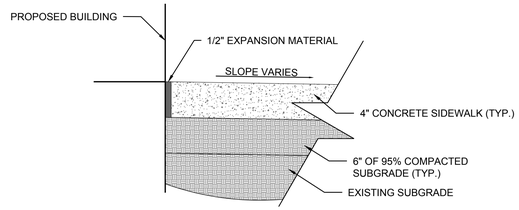
THE CONTRACTOR SHALL PROVIDE A VAN ACCESSIBLE SIGN AT ACCESSIBLE PARKING SPACES AS INDICATED.

THE ACCESSIBLE PARKING SIGNS PROVIDED SHALL CONFORM TO TYPE "R7-8" IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

ACCESSIBLE STALL SIGN DETAIL
NOT TO SCALE



GRADE ADJACENT TO BUILDING DETAIL
NOT TO SCALE

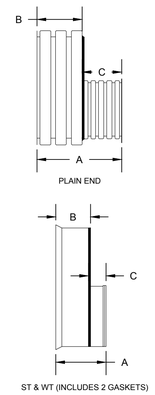


SIDEWALK ADJACENT TO BUILDING DETAIL
NOT TO SCALE

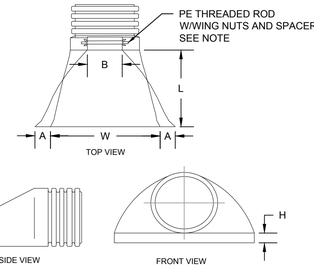
PART #	PIPE SIZE	A	B	C	JOINT
**0670AN	6X4 in (150X100mm)	11.4 in (291mm)	6.2 in (157mm)	5.3 in (133mm)	*
**0870AN	8x4 in (200x100mm)	12.0 in (304mm)	6.7 in (171mm)	5.3 in (135mm)	*
**0871AN	8x6 in (200x150mm)	12.9 in (328mm)	6.7 in (171mm)	6.2 in (157mm)	*
**1070AN	10x4 in (250x100mm)	12.8 in (325mm)	7.6 in (192mm)	5.3 in (133mm)	*
**1071AN	10x6 in (250x150mm)	13.8 in (349mm0	7.6 in (192mm0	6.2 in (157mm)	*
**1072AN	10x8 in (250x200mm)	14.3 in (363mm)	7.6 in (192mm)	6.7 in (171mm)	*
1270AN	12x4 in (300x100mm)	11.0 in (280mm)	5.8 in (146mm)	5.3 in (133mm)	*
1270AN65B	12x4 in (300x100mm)	8.9 in (226mm0	6.5 in (165mm)	2.4 in (60mm)	WT
1271AN	12x6 in (300x150mm)	12.0 in (304mm)	5.8 in (146mm)	6.2 in (157mm)	*
1271AN65B	12x6 in (300x150mm)	10.0 in (254mm)	6.5 in (165mm)	3.5 in (89mm)	WT
1272AN	12x8 in (300x200mm)	12.5 in (317mm)	5.8 in (146mm)	6.7 in (171mm)	*
1272AN65B	12x8 in (300x200mm)	10.8 in (273mm)	6.5 in (165mm)	4.3 in (108mm)	WT
1273AN	12x10 in (300x250mm)	13.3 in (338mm)	5.8 in (146mm)	7.6 in (192mm)	*
1273AN65B	12x10 in (300x250mm)	11.8 in (298mm)	6.5 in (165mm)	5.3 in (133mm)	WT

* = PLAIN END
WT = WATER TIGHT
** = LIMITED AVAILABILITY. PLEASE SEE INJECTION MOLDED FITTING SECTION FOR OTHER AVAILABLE FITTINGS

NOTE: ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY.



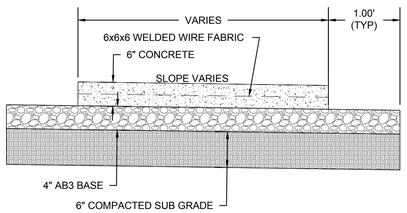
DUAL WALL FABRICATED REDUCERS
6"X4" - 12"X10" DIAMETER



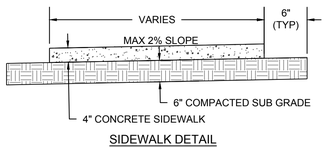
PART #	PIPE SIZE	A	B(MAX)	H	L	W
1210NP	12 in. (300 mm)	6.5 in (165mm)	10.0 in (254mm)	6.5 in (165mm)	25.0 in (635mm)	29.0 in (737mm)
1510NP	15 in (375mm)	6.5 IN (165mm)	10.0 in (254mm)	6.5 in (165mm)	25.0 in (635mm)	29.0 in (737mm)
1810NP	18 in (450mm)	7.5 in (191mm)	15.0 in (381mm)	6.5 in (165mm)	32.0 in (813mm)	35.0 in (889mm)
2410NP	24 in (600mm)	7.5 in (191mm)	18.0 in (457mm)	6.5 in (165mm)	36.0 in (914mm)	45.0 in (1143mm)
3015NP	30 in (750mm)	7.5 in (191mm)	12.0 in (305mm)	8.6 in (218mm)	58.0 in (1473mm)	63.0 in (1600mm)
3615NP	36 in (900mm)	7.5 in (191mm)	25.0 in (635mm)	8.6 in (218mm)	58.0 in (1473mm)	63.0 in (1600mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

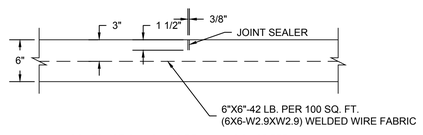
FLARED END SECTIONS



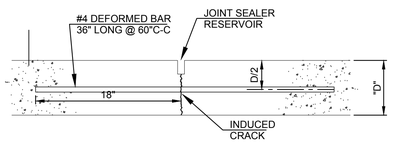
PARKING LOT PAVING DETAIL
NOT TO SCALE



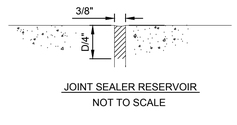
SIDEWALK DETAIL
NOT TO SCALE



CONTRACTION JOINT DETAIL - 6" CONCRETE
NOT TO SCALE



CONSTRUCTION JOINT DETAIL
NOT TO SCALE



JOINT SEALER RESERVOIR
NOT TO SCALE

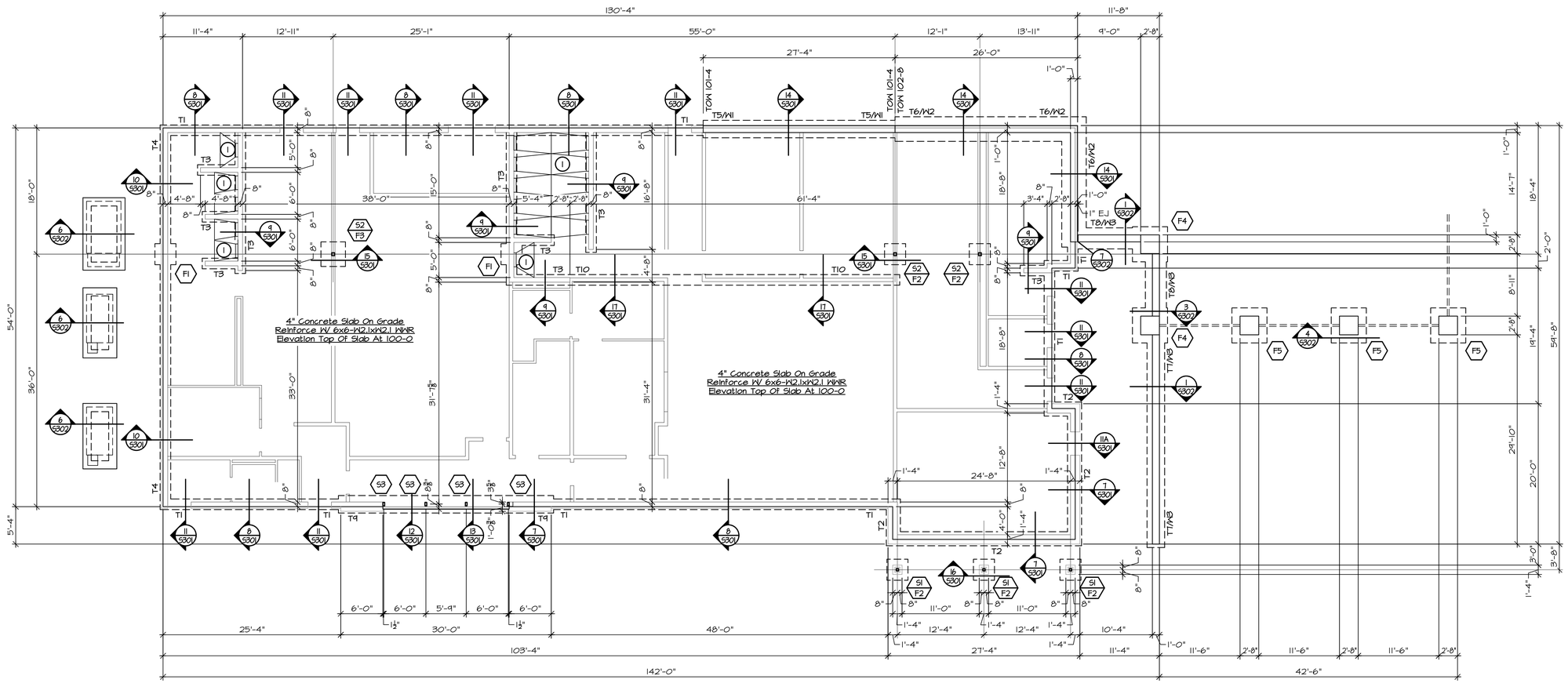
BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760

BRETT LOUIK
23760
7-7-17
KANSAS
PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036
Date: 7/7/17
Project Name: USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS
Project Address: 4290 COLUMBIAN ROAD WAMEGO, KS
Sheet Title: MISC. DETAILS
Sheet: C9
Of:



NORTH

FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN MARKS:

TX	Trench Footing Mark, See Trench Footing Schedule on Sheet S202
WX	Foundation Wall Mark, See Foundation Wall Schedule on Sheet S202
TOW	Top of Concrete Wall Elevation
5#	Steel Column Mark, See Schedule on Sheet S203
5# / F#	Steel Column Mark, See Schedule on Sheet S203 Concrete Column and Footing Mark, See Schedule on Sheet S202

FOUNDATION PLAN GENERAL NOTES:

1. See General Structural Notes on Sheet S201 and specifications for additional notes and information.
2. Perimeter Foundation Plan dimensions on the exterior of the building are to the exterior face of concrete masonry wall, concrete foundation wall, masonry veneer, centerline of steel column, or edge of slab on grade, unless noted otherwise. Dimensions on the interior of the building are to face of concrete masonry wall, unless noted otherwise.
3. See Detail 1-S301 for Typical Corner Bar Detail.
4. See Detail 2-S301 for Typical Slab on Grade Joint Details. Locate interior slab on grade joints in accordance with the General Structural Notes on Sheet S201. See Architectural and Civil Drawings for exterior concrete slab on grade details.
5. Thicken trench footings per Detail 3-S301 at all locations where subgrade plumbing/electrical lines occur less than 2'-0" below scheduled bottom of footing elevation. Verify locations required with Civil Drawings, Architectural Drawings, Mechanical Drawings, Electrical Drawings, and field conditions.
6. See Detail 4-S301 for typical masonry expansion and control joint details.
   See Details 5-S301 for typical masonry jamb details at lintel bearing.
   See Detail 18-S301 for typical masonry wall reinforcing and grouting details.
7. See Sheet S301 for typical foundation details.
8. See the Architectural and Civil Drawings for additional exterior slab and paving details. See the Mechanical and Electrical Drawings for equipment pad details, unless indicated otherwise on Structural Drawings.

REFERENCED PLAN NOTES:

(1) Slope floor slab to floor drains. See Architectural drawings for floor drain location and floor slab elevations at drains. Maintain the defined floor slab thickness at all areas with a sloped top of slab elevation.

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

Dudley Williams and Associates, PA.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316-263-2591 • www.dwaea.com

17-045.01 S101 in I:\17-045\17-045.01\S-1X 7/7/2017 (MD) (1:96)

VON D. LUCAS LICENSED 14668 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

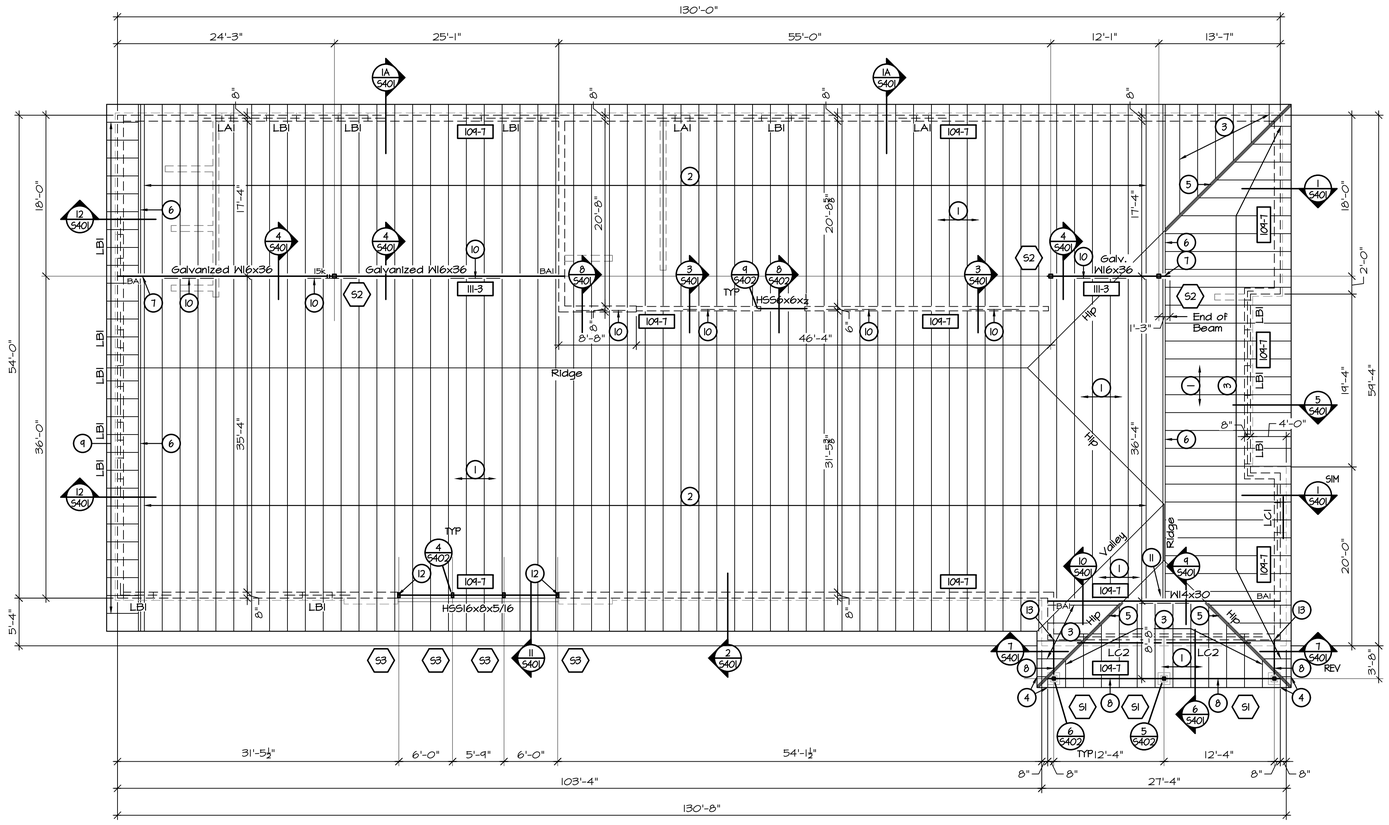
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:
FOUNDATION PLAN

Sheet: **S101**

Of:



NORTH

ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN MARKS:

S#	Steel Column Mark, See Steel Column Schedule on Sheet S203
LX#	Lintel Mark, See Lintel Schedule on Sheet S203; See Architectural Drawings for size and location of door and window openings. See Architectural and Mechanical Drawings for size and location of mechanical openings.
###-##	Truss Bearing Elevation / Top of Wood Beam or Wood Plate Elevation
SST	Simpson Strong-Tie
PSL	Parallel Strand Lumber Framing Member, See General Structural Notes on Sheet S201
BX#	Bearing Plate Mark, See Bearing Plate Schedule on Sheet S203
##k	Beam Vertical Shear End Reaction in kips; 10k minimum if not noted.

ROOF FRAMING PLAN KEY NOTES:

1. Wood Panel Roof Sheathing Type 1. See General Structural Notes on Sheet S201 for fastener requirements and additional information.
2. Pre-fabricated Wood Trusses at 24" o.c. See General Structural Notes on Sheet S201 and sections for design loading requirements and additional information. (Provide king post truss bearing where shown on sections.)
3. Pre-fabricated Wood Jack Trusses at 24" o.c. Truss fabricator to design truss to truss connection hardware. See General Structural Notes on Sheet S201 for design loading requirements and additional information.
4. 2x6 Roof Framing at 24" o.c. See Architectural Drawings for soffit details, typical.
5. Pre-fabricated Wood Hip Girder Truss. Truss fabricator to design truss to truss connection hardware. See General Structural Notes on Sheet S201 for design loading requirements and additional information. Anchor hip girder truss to wall top plates or wood beam with SST-H2.5T anchor.
6. Pre-fabricated Wood Girder Truss. Truss fabricator to design truss to truss connection hardware. See General Structural Notes on Sheet S201 for design loading requirements and additional information. Anchor girder truss to exterior face of concrete masonry wall with SST-L6T girder truss tie down with Titan screw anchors. Determine SST-L6T tie down model number based on the provided number of girder truss plies. Coordinate number of girder truss plies with wood truss supplier.
7. Anchor each girder truss to steel beam per Detail 18-S4.01.
8. 5¼x9½ PSL Roof Beam. See General Structural Notes on Sheet S201 for additional information. Frame beam into steel column with column cap per Details 5 or 6-S402.
9. 2x6 Outriggers at 24" o.c. See Architectural Drawings for soffit details, typical.
10. Provide 3 bays of pre-fabricated blocking trusses between roof trusses at maximum 16'-0" o.c. see General Structural Notes on Sheet S201 for design loading requirements and additional information.
11. Anchor girder truss to steel beam per Detail 7-S402.
12. Anchor column at end of tube beam to end of concrete masonry wall with adhesive anchors at Elevation 101-0, Elevation 104-4, and Elevation 107-8 per Detail 4-S402.
13. Support wood beam with face mount hanger that is screw anchored to face of solid grouted concrete masonry wall and strap top of wood beam to plates on top of concrete masonry wall per Section 7-S401.

ROOF FRAMING PLAN GENERAL NOTES:

1. See General Structural Notes on sheet S201 and S202 and specifications for additional notes and information.
2. Perimeter framing plan dimensions on exterior of building are to exterior face of veneer or exterior face of concrete masonry wall where masonry veneer does not occur, unless noted otherwise. See Architectural Drawings for dimensional location of interior walls. See the Architectural Drawings for roof overhang, eave, and soffit details. See the Architectural Drawings for door and window opening size, location, and elevation.
3. See Sheets S401 and S402 for typical framing details:
   See Detail 15-S401 for Typical Roof Opening Detail for roof openings between pre-fabricated roof trusses.
   See Detail 17-S401 for Typical Top Plate Splice Detail.
   See Detail 13-S401 for Typical Ridge Detail and Detail 14-S401 for Typical Hip and Valley Detail and 2x6 blocking between roof framing at all hip and valley lines.
4. Pre-fabricated wood truss layout is schematic in nature and is not intended to indicate a specific quantity of trusses required. Truss Fabricator shall provide a specific truss layout and all trusses required to complete the roof framing. Truss Fabricator to coordinate truss location and geometry with duct work and any mechanical equipment in the attic. See Mechanical Drawings for additional information.
5. Truss fabricator to design all truss to truss connection hardware, typical.
6. Top of all interior non-load bearing masonry walls shall be braced to the structure per Details 10 and 11-S402, unless noted otherwise.
7. See Detail 18-S301 for Typical Masonry Wall Reinforcing and Grouting Detail.
8. See Detail 4-S301 for Typical Masonry Control Joint Details.
9. See Detail 5-S301 for Typical Masonry Jamb Details at Lintel Bearing.

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

Dudley Williams and Associates, PA.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316.263.3591 • www.dwaice.com

17-045.01 S102 in I:\17-045.01\S-1X 7/7/2017 (MD) (1:96)

JON D. LUCAS LICENSED 14668 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:
ROOF FRAMING PLAN

Sheet: S102

Of:

GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all the shop drawings before submitting for review.
Verify all dimensions and elevations with the Architectural Drawings.
See the Architectural Drawings for the exact dimensions for openings in the walls, roof, and floor systems.
Verify all mechanical opening sizes and locations with the mechanical contractor.
Verify all electrical opening sizes and locations with the electrical contractor.
No pipes, sleeves, or etc. shall pass through the beams or columns unless indicated on the plan.
The contractor shall design, provide, and maintain temporary bracing, shoring, guying, etc. and other methods as required to prevent any excessive loading and to stabilize the structural elements during construction. These methods shall remain in place until all members and final connections have been completed.
The foundation is designed for an allowable bearing pressure of 3000 psf as recommended in the Geotechnical Exploration Report prepared by GSI Engineering, GSI Project No. 1773023A.
The building structural system is designed per the International Building Code - 2012 Edition.
The contractor shall perform all material testing and inspection requirements for compliance with the governing building code, the project specifications, the local building inspection department, and the following Structural Special Inspection Notes.
Structural steel erection shall comply with OSHA Standard 29 CFR Part 1926, Subpart R and all other governing regulations. Structural steel suppliers and fabricators shall incorporate the requirements of this standard into the materials fabricated and supplied on this project

DESIGN LOADS

Building structure is designed for the following loads and criteria:

Risk Category:		II
Dead:	Weight of materials and construction plus weight of fixed service equipment	
	Assumed roof dead load:	20 psf
Live Load:		
	Roof live load:	20 psf (non-reducible)
Snow:	Ground snow load:	Pg = 20 psf
	Flat-roof snow load:	Pf = 17 psf
	Drifting snow load:	ASCE 7-10
	Snow exposure factor:	Ce = 1.0
	Snow load importance factor:	I = 1.0
	Thermal factor:	Ct = 1.2
Wind:	Basic wind speed (3-second gust):	Vult = 115 MPH Ultimate
		Vasd = 89 MPH Nominal
	Wind exposure category:	C
	Internal pressure coefficient:	±0.18
Seismic:	Seismic importance factor:	I = 1.0
	Site class:	D
	Mapped spectral response accelerations:	Ss = 0.158 S1 = 0.058
	Spectral response coefficients:	Sds = 0.169 Sd1 = 0.093
	Seismic Design Category:	B
	Analysis procedure:	Equivalent lateral force
	Basic seismic-force resisting system:	Ordinary reinforced masonry shear walls
	Response modification factor:	R = 2
	Seismic response coefficient:	Cs = 0.085
	Design base shear:	V = Cs x W

STRUCTURAL SPECIAL INSPECTIONS

The contractor shall engage one or more qualified independent testing and inspecting agencies to perform the material testing and inspection requirements as outlined in the project specifications and this section.
Testing and inspection reports shall be furnished to the Building Official, the Architect, and the Structural Engineer. Reports shall indicate that the materials tested and the work inspected are in conformance with the Contract Documents. Discrepancies shall be brought to the attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be reported to the Building Official, the Architect, and the Structural Engineer.
The testing and inspecting agencies shall submit a final report for each type of work stating that any discrepancies noted in the testing and inspections have been corrected and that the structural work was, to the best of their knowledge, performed in conformance with the Contract Documents.
The testing and inspection program does not relieve the Contractor of any responsibility for constructing the project in accordance with the Contract Documents and for controlling the quality of construction.
The Contractor shall be responsible for the scheduling and the timely notification of the testing and inspection agencies of the need for material testing or inspections.
All work which requires testing or inspection shall be ready for testing or inspection at the time of the testing and inspecting agency's visit. No work shall be performed which would conceal items to be tested or inspected until the work has been reviewed and accepted.
The following types of work require special inspection (IBC references refer to the International Building Code edition referenced above):

1. Inspection of fabricators shall comply with IBC Section 1704.2.5.
2. Testing and inspection of steel construction shall comply with IBC Section 1705.2, IBC Table 1705.2.2, and American Institute of Steel Construction (AISC) Specification for Structural Steel Buildings 360.
   a. Submit material test reports, manufacturer's certifications, product data sheets, welding procedure specifications, welding personnel performance qualification records, fabricator/erector quality control manual, fabricator/erector inspector qualifications as specified. Contractor shall maintain same for review by Architect/Engineer as indicated in AISC 360 Chapter N.
   b. Submit AWS performance qualification records for personnel performing shop fabrication or field erection welding.
   c. Perform visual inspection of the fabricated or erected steel framing to verify compliance with the construction drawings, including member location, bracing, stiffeners, and connection types.
   d. Perform visual inspection of all shop fabrication and field erection welds.
   e. Perform ultrasonic inspection of all partial or complete joint penetration welds during the shop fabrication and field erection.
   f. Perform continuous inspection of all fillet welds greater than 5/16" during the shop fabrication and field erection.
   g. Perform visual inspection of all snug-tightened (Type ST) bolted connections.
   h. Perform visual inspection of the placement of anchor rods and embed plates in concrete and concrete masonry. Verify diameter, grade, type, length, and embedment of anchors prior to placing concrete or grout.
3. Testing and inspection of concrete construction shall comply with IBC Section 1705.3 and IBC Table 1705.3.
   a. Perform sampling and testing of cast-in-place concrete as specified.
   b. Perform periodic inspection of reinforcing for steel size, cover, spacing, positioning, lap lengths and locations.
   c. Perform inspection of concrete placement for proper procedures for transporting, placing, consolidating, and finishing of concrete.
   d. Perform periodic inspection of concrete curing and protection procedures, including compliance with the hot and cold weather requirements defined in the specifications.
   e. Contractor shall maintain records of all batch reports and delivery tickets on each load of concrete delivered to the project site for periodic review by the Architect/Engineer.
4. Testing and inspection of masonry construction shall comply with the quality assurance requirements of Section 1.19 Level B and Table 1.19.2 of the TMS 402/ACI 530/ASCE 5 and Section 1.6 Level B and Table 4 of the TMS 602/ACI 530.1/ASCE 6.
   a. Periodically verify the proportions of site prepared mortar and grout.
   b. Periodically verify the masonry construction complies with the site tolerances defined in TMS 602/ACI 530.1/ASCE 6 Section 3.3F.
   c. Perform periodic inspection of the mortar joint construction.
   d. Perform periodic inspection of the reinforcing steel grade, type, size, placement and positioning and the block core cleaning and preparation.
   e. Perform continuous inspection of the grout placement for proper consolidation, reconsolidation, and placement of the grout lift heights.
   f. Periodically verify the type, size, and location of anchors and embeds for anchorage of masonry to other construction.
   g. Periodically observe the preparation of the mortar specimens per ASTM C780 and grout specimens per ASTM C1019 for testing and as specified.
5. Testing and inspection of the soils shall comply with IBC Section 1705.6 and IBC Table 1705.6.
   a. Perform sampling, testing, and inspection of the soil type, exposed subgrade, moisture content, lift thickness, and compaction as specified.
   b. Perform periodic testing and inspection of the soils at the foundation system bearing elevation to verify the required soil bearing capacities.
6. Testing and inspection of the wood construction shall comply with IBC Section 1705.5.
   a. Contractor shall maintain records of all material and product certificates delivered to the project site for periodic review by the Architect/Engineer.
   b. All pre-engineered products shall be designed by a professional engineer licensed to practice in the State of Kansas.
7. Testing and inspection of post-installed anchors and post-installed reinforcing bars shall comply with IBC Section 1705.1.1.
   a. Perform an initial post-installed anchor and reinforcing bar installation inspection for each type and size of post-installed anchor and reinforcing bar. Any change in the personnel performing the post-installed anchor or reinforcing bar installation shall require an initial installation inspection.
   b. Perform periodic post-installed anchor and post-installed reinforcing bar installation inspections during the project to verify that the anchor and reinforcing bar installations continue to be properly performed.
   c. Post-installed anchor and reinforcing bar installation inspections shall verify anchor/reinforcing bar type, diameter, embedment depth, spacing, adhesive type, hole dimensions, base material, hole cleaning procedures, and adherence to the manufacturer's installation instructions.
   d. Perform visual observation of all completed post-installed anchor and post-installed reinforcing bar installations.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days.

Footings:	3000 psi
Interior Floor Slabs:	3500 psi
Columns and Foundation Walls:	4000 psi
Exterior Slabs and Pavement:	4000 psi

All aggregate for normal weight concrete shall meet ASTM C33. Aggregates shall be proportioned such that mix design shall contain a minimum of 50% coarse aggregates by gradation requirements set forth in ASTM C33. Coarse aggregate shall meet No. 67 grading requirements.
Exterior exposed concrete shall have from 4 to 7% entrained air.
Concrete shall be in strict conformance with the current "ACI Manual of Concrete Practice".
No aluminum shall be placed in the concrete.
Chamfer all exposed edges of the concrete 3/4"
Slabs on earth shall be 4 inches thick with 6x6-W2.1xW2.1 welded wire reinforcement unless otherwise noted.
Contraction joints or construction joints in slabs on grade shall be spaced to divide the slab into panels not to exceed 225 square feet. The longer dimension of each panel shall not exceed the shorter dimension by more than 20 percent.
All saw-cut joints in slab on grade floors shall use an early entry dry-cutting sawing system.
Provide concrete bases for the mechanical equipment. All shall be 4 inches thick on top of floor slabs on grade with 6x6-W2.1xW2.1 welded wire reinforcement, unless otherwise noted.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM A1064. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets.
All reinforcing shall meet ASTM A615 - 60,000.
All reinforcing steel shall have adequate coverage as indicated in ACI 318 for the given exposure.
Reinforcing shall be continuous and lapped a minimum of 24 inches or 36 bar diameters whichever is greater, unless otherwise noted.
Reinforcing shall be detailed according to the ACI Detailing Manual and shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas.
Provide corner lap bars to match in size and spacing of all wall and trench footing horizontal bars. Corner bars are not required in the wall footings, unless specifically indicated.
Provide 150 pounds of extra bars of various sizes to be used as directed. Include labor for placing same.
Provide 3-inch slab bolster with continuous bottom plate at 4'-0" maximum centers for positioning all footing bottom bars.
Welding of all reinforcing bars shall conform to AWS D1.4, "Structural Welding Code - Reinforcing Steel".

CONCRETE MASONRY

All concrete masonry units (CMU) shall be made of lightweight concrete aggregate and shall have a minimum compressive strength of 1900 psi on net area at 28-days.
All mortar for use in concrete masonry shall conform to ASTM C 270, Type S.
Provide vertical CMU reinforcement as indicated on the plan and sections. Bars for typical lift shall be shop cut for 4'-0" lifts plus a minimum 48 bar diameters lap. Field cut bars for top lift and non-typical lengths.
Provide dowels from the foundation to match in size and spacing of all vertical CMU reinforcement.
Provide standard hook at the end of all vertical masonry reinforcing into top bond beam at roof bearing elevation.
Provide at least one vertical rebar at each end, side of control joints, jambs, corner, and intersection of all load bearing and exterior CMU walls. Size of rebar is to match the size of typical vertical reinforcing. If the wall does not contain any vertical CMU reinforcing, provide 1-#4 vertical at the described locations.
Grout all reinforced vertical block cores and bond beams with minimum 2500 psi grout. Grout shall conform to ASTM C 476.
Provide 2-#4's continuous for all bond beams unless otherwise indicated on the plan. Furnish in shop lengths and field cut. See the plans (including architectural), sections and notes for the locations.
Provide one corner bar to match each horizontal bond beam.
Provide a 16-inch deep bond beam at the top of all exterior CMU walls, unless detailed otherwise.
Provide a 16-inch deep bond beam at Elevation 109-4 at west exterior CMU wall.
Provide an 8-inch deep bond beam at the top of all interior CMU walls, unless detailed otherwise. .
Provide horizontal joint reinforcing in all concrete masonry unit walls at 16 inches o.c. unless noted otherwise.
Provide masonry control joints at a maximum spacing of 24'-0" o.c. unless noted or shown otherwise.
Coordinate all control joint locations with the Architect/Engineer. Control joints shall not occur below or directly adjacent to the joist, beam or lintel bearing points.
Fill all beam bearing pockets in masonry walls solid with concrete masonry units.
All lintels shall be built into the masonry walls over wall openings as the wall is being constructed. Closely coordinate the location and elevation of all openings in the masonry walls with the architectural, mechanical, and electrical drawings.

STRUCTURAL STEEL

Structural steel shall meet the latest AISC "Specification for Structural Steel Buildings."
The steel fabricator and detailer shall be responsible for the design and detailing of all steel framing connections which are not explicitly detailed on the contract documents. The submitted shop drawings shall clearly show and note all shop and field bolting and welding requirements.
All member loads, reactions, and moments defined on the drawings are ASD, service-load level, unless noted otherwise.
Steel framing members shall only be spliced at locations shown on the design drawings or as shown on and approved on the shop drawings.
Structural steel shop drawings shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas.
All steel plates and shapes shall meet ASTM A36 except wide flange sections shall meet ASTM A992, Fy = 50 ksi. Structural steel tubing shall meet ASTM A500, Grade B, Fy = 46 ksi and structural piping shall meet ASTM A53, Grade B, Fy = 35 ksi.
All beam and column connections shall be made with A325 (Type 1) bolts and accessories. Connections shall be designed as snug-tightened (Type ST) bolted connections, unless noted otherwise.
All headed studs and shear connectors shall meet ASTM A108 and A29, Grade 1015-1020, and AWS D1.1, Type B.
All unheaded anchor rods shall be ASTM F1554, Grade 36 or ASTM F1554, Grade 55 (Supplement S1).
All threaded steel rods shall meet ASTM A307, Grade B; ASTM F1554, Grade 36; or an approved equal or greater strength threaded rod. All threaded rods cast in concrete or post-installed in concrete or masonry shall be thoroughly cleaned of all surface oils.
Provide 3/8" plate washers above all oversized holes (hole diameters greater than 1/16" larger than anchor diameter) in the column base plates. Provide standard hole size in plate washers.
All anchor rods set in concrete shall be furnished with double nuts and shall be set with a template.
Provide standard size holes for all bolts and anchors in steel framing members unless noted otherwise (1/16" larger hole than diameter of bolt or anchor).
All beams bearing on masonry directly supporting the roof framing systems shall be positively anchored to the bearing walls with anchor rods (or an equivalent method) to resist uplift forces.
Welding shall conform to AWS D1.1, "Structural Welding Code - Steel". All welds shall be AWS prequalified welded joints. No unauthorized welds will be accepted.
E70xx electrodes shall be used for all welding, U.N.O..

Lintels shall be provided over all the openings in the masonry walls, unless otherwise detailed.
See Lintel Schedule for lintel requirements indicated on the drawings.
Not all masonry openings that require lintels are shown on the structural drawings. Refer to the architectural and mechanical drawings for the size and location of additional openings in the masonry walls.
Galvanize all steel lintels in exterior masonry walls.
Provide solid grouted masonry units below bearing of all lintels, beams, or etc. Grout block cores with 2500 psi grout.
All field completed welding and bolted connections shall be reviewed and accepted by the field inspection and testing agency prior to the installation of subsequent work.
Galvanized structural steel shall conform to ASTM A123 for members and ASTM A153 for connection elements.
Hot-dip galvanize steel framing members as specified where specifically noted on the drawings. Provide venting relief holes as required, but locate on the bottom side or at similar non-visible locations where the members are exposed on the exterior of the building. Show or note the locations of venting holes on the shop drawing submittal.

LUMBER

All lumber shall have the following minimum base design values:

Studs: 2x4 & 2x6 (Spruce-Pine-Fir No. 1/No. 2 or better)

Fb:	875 psi	Fc perp:	425 psi	Ft:	450 psi
Fv:	135 psi	Fc parallel:	1150 psi	E:	1,400,000 psi

Joists & Beams: 2x8, 2x10, & 2x12 (Hem-Fir No. 2 or better)

Fb:	850 psi	Fc perp:	405 psi	Ft:	525 psi
Fv:	150 psi	Fc parallel:	1300 psi	E:	1,300,000 psi

Maximum moisture content shall not exceed 19%.
All roof joists and beams shall be anchored to the supporting members with framing anchors.
Joist hangers shall be used at all locations where joist and beam support by bearing is not available.
All metal connectors shall have ICBO approval and shall be installed with fasteners as specified by the manufacturer.
Wood framing member shall be connected or fastened to the supports as noted on the drawings. Where no specific fastener requirements are defined, connect members as defined in the IBC edition indicated above, Table 2304.9.1.
Wood plates shall be anchored to the top of the concrete masonry walls with 5/8" diameter anchor rods at 32 inches o.c. maximum, unless noted otherwise. Provide a minimum of two anchor rods per run of plate.
Provide double 2x top plates; stagger laps in top plates 4'-0" minimum.
Multiple 2x's used as beams shall be bolted together with 1/2" diameter bolts at 24 inches o.c. staggered.
All wood plates or ledgers above ground and attached to concrete or masonry shall be preservative treated lumber.
Preservative treated lumber shall contain 0.25 pcf chemical retention level for ACQ-C, ACQ-D, MCQ, and CCA-C; 0.20 pcf chemical retention level for CBA-A; or 0.10 pcf chemical retention level for CA-B. No other type of waterborne preservative shall be used without specific approval.
All metal connectors used in contact with preservative treated lumber shall be hot-dip galvanized, Simpson Strong-Tie ZMAX, G185 coating (1.85 oz./ft²) unless approved otherwise.
All nails, screws, bolts, anchors and associated hardware installed into or in contact with preservative treated lumber shall be hot-dip galvanized per ASTM A153.
All bolted connections in lumber members shall use ASTM A307 grade bolts.
All holes for bolted connections in the steel connection plates and the lumber members shall be 1/16" larger than the bolt diameter.
All noted nails shall be common wire nails with diameter and length as defined below. Any nails proposed to be used with a diameter or length that is different from a common wire nail shall be submitted for review and approval. Modifications to the defined common nail quantity and spacing may be required with any approved nail that possess properties that are less than a common wire nail.

Nail	Diameter	Length
8d	0.131 in.	2.50 in.
10d	0.148 in.	3.00 in.
12d	0.148 in.	3.25 in.
16d	0.162 in.	3.50 in.

WOOD TRUSSES

Trusses and connections shall be designed by the truss manufacturer to support the following loads and criteria:

Dead Load	Top Chord:	10 psf
	Bottom Chord:	10 psf

Total dead load to be used in the net uplift calculation shall not exceed 60 percent of the dead load indicated.

See "Design Loads" section for live load, snow load, wind load, and seismic design criteria.
In addition to the uniform loads, all trusses shall be designed to support a 200 pound concentrated load applied to the top chord or bottom chord at any point along the length of the truss.
Where noted on the plans or details, trusses shall be designed for additional special loads as indicated.
Design truss members and bracing members to resist out-of-plane wind loading on the exposed portions of the trusses where applicable.
The truss manufacturer shall determine truss web configuration.
See the framing plan and details for the special loading and conditions at the girder trusses and hip girder trusses.
The truss manufacturer shall design the truss to truss connections. Provide truss or joist hangers for the support of all truss framing members where bearing support is not provided.
Trusses and connections shall be designed and fabricated using metal plate connections that conform to the latest edition of the "Design Specification for Metal Plate Connected Wood Trusses" published by the Truss Plate Institute. Quality Control Factor (Cq) shall not exceed 1.00.
Provide a minimum 2x6 top chord and minimum 2x4 bottom chord on all roof trusses.
Connection plates shall be sized for axial loads of members, eccentricity, and net section of metal. Minimum connection plate sizes shall be 15 square inches and the minimum thickness shall be 33 mils (20 gage).
Roof trusses shall be designed to limit total load vertical deflection to L/240. Live load deflection shall be limited to L/360. Lateral load deflections for members exposed to wind load shall be limited to L/240.
Computations for the design of truss members and connections shall be prepared and sealed by a professional engineer licensed in the State of Kansas and shall be submitted for review along with the shop drawings.
Truss members shall be clamped in a mechanical or hydraulic jig with sufficient pressure to bring members into reasonable contact at all joints during application of connector plates.
The truss shop drawings shall define all truss and truss member permanent bracing requirements.
Provide adequate bottom chord bracing to resist wind uplift forces where a rigid ceiling is not attached to the bottom chord of trusses.
Permanent bracing shall be installed per TPI recommendations.
All roof trusses shall be anchored to all bearing points with framing anchors.
Provide adequate anchorage and bracing during erection.

WOOD PANEL ROOF SHEATHING

All panel roof sheathing shall be APA rated sheathing.
Roof sheathing shall meet exposure durability classification - Exterior, with a span rating of 40/20 and a minimum thickness of 19/32".
Install roof panels with the long dimension of the panel across supports and continuous over two or more spans. Stagger end joints.
Nail roof panels with 10d nails at 6 inches o.c. along the panel support edges and at 12 inches o.c. at the intermediate supports. Provide panel clips along all unsupported panel joints between each support.
Allow 1/8" spacing at all panel edge and end joints unless otherwise recommended by the manufacturer.

ENGINEERED LUMBER

Beams and joists shall be furnished in sizes as stated on the drawings.
All members shall meet the allowable stresses and loading tables of iLevel Trus Joist or approved equal.
Parallel Strand Lumber (PSL) shall be 2.0E Parallam by iLevel Trus Joist or approved equal.
Nail multiple ply beams together per the manufacturer's recommendations.
All bolted connections in engineered lumber members shall use ASTM A307 grade bolts.
All holes for bolted connections in the steel connection plates and the engineered lumber members shall be 1/16" larger than the bolt diameter.

COLD-FORMED STRUCTURAL FRAMING

All cold-formed structural framing members shall be in accordance with ASTM C955 and shall have engineering properties calculated in conformance with the AISI "Specifications for the Design of Cold-Formed Steel Structural Members".
All cold-formed structural framing members shall be installed to conform with ASTM C1007.
All cold-formed structural framing members and accessories shall have a minimum protective coating equal to G60 galvanized finish. Properly clean the welded or damaged area and apply zinc-rich paint to all areas where the galvanized finish is damaged.
All steel shall conform to one of the following ASTM Standards: ASTM A653, A875, A792, or A463.
All 33 and 43 mil products shall be formed from steel with a minimum yield of 33,000 psi.
All 54, 68 and 97 mil products shall be formed from steel with a minimum yield of 50,000 psi.
All stud and joist sections shall be "C" type sections with nominal 1-5/8" flanges and a minimum 1/2" return, unless noted otherwise.
All members shall be of depth and mil thickness as indicated on the plan and sections.
The track sections shall meet or exceed the mil thickness of the stud members, unless noted otherwise.
All framing components shall be cut squarely for attachment to perpendicular members.
All studs or joists used in lintels and horizontal or sloped framing members shall be un-punched, unless noted otherwise.
All load bearing studs shall have a minimum of 10-inch unpunched length at the top and bottom of each stud unless recommended otherwise by the stud manufacturer.
All studs in load bearing walls must be fully seated into the top and bottom track.
Provide web stiffeners, connection angles, and miscellaneous hardware required to complete all the connections.
Provide wall stud bridging spaced at 4'-0" maximum on centers in the load bearing walls for full height of walls.
Fasten the bridging member to each stud with clip angle and screw fasteners. Install 2 screw fasteners between clip angle and stud and between clip angle and bridging member.
Provide deflection track at the top of all non-load bearing stud walls where the top of wall abuts the bottom of the structure.
Fastening of framing components shall be with self-tapping screws or welding of sufficient size to insure the strength of the connection.
Welds shall be performed by operators qualified in accordance with Section 6.0 of the American Welding Society's "Structural Welding Code - Sheet Metal" (AWS D1.3).
Attach studs to track with a minimum of one screw per stud flange, unless otherwise noted.
Anchor base track to floor/foundation with 0.157"Φ powder actuated fasteners at 16 inches o.c., unless noted otherwise; Embed 1-1/2" into the concrete.

POST-INSTALLED ANCHORS

All post-installed anchors and post-installed reinforcing bars shall be installed per the manufacturer's installation instructions. All holes shall be drilled per the manufacturer's instructions with the required bit type and size to provide the minimum embedment length specified in the Structural drawings. All holes shall be cleaned prior to installing the anchor or reinforcing bar per the manufacturer's instructions with the brush and compressed air method or with the self-cleaning Hilti Safe Set Technology method using Hilti Hollow Drill Bit and Vacuum System.
The installation of all post-installed anchors and post-installed reinforcing bars shall be performed by personnel trained and certified by the American Concrete Institute/Concrete Reinforcing Steel Institute or trained by the post-installed anchor and/or adhesive manufacturer for the type of anchor or reinforcing bar being post-installed.
Adhesive anchors or reinforcing bars installed into concrete shall use Hilti HIT-HY 200 Adhesive Anchoring System or an approved equal.
Adhesive anchors or reinforcing bars installed into solid grouted masonry, hollow block masonry, or brick masonry shall use Hilti HIT-HY 70 Adhesive Anchoring System or an approved equal.
A piston plug injection procedure approved by the adhesive manufacturer shall be used for the injection of adhesive into all holes greater than 10 inches in depth.
Simpson Strong-Tie SET-XP, Simpson Strong-Tie AT-XP, and Hilti HIT-RE 500 V3 are approved equal adhesive anchoring systems for adhesive anchors or reinforcing bars installed into concrete.
Simpson Strong-Tie SET-XP is an approved equal adhesive anchoring system for adhesive anchors or reinforcing bars installed into solid grouted masonry.
The installation of all post-installed anchors and post-installed reinforcing bars shall be reviewed and accepted by the field testing and inspection agency.

EXPOSED CAST-IN-PLACE CONCRETE SPECIAL REQUIREMENTS

At all locations where the cast-in-place concrete surface is exposed to the view in the completed building or is exposed to the exterior and weather in the completed building, the Contractor shall take special precautions and shall implement special quality control measures to assure that the following concrete coverage requirements are met and maintained at all locations.
Concrete column ties shall be detailed and fabricated to provide 2" of concrete cover from the formed or unformed surface. Concrete beam stirrups and concrete column ties shall be placed and maintained during the concrete placement to provide between 1 1/2" to 2" of concrete cover at all locations. At least 1 1/2" of concrete cover must be provided on the stirrups, ties, and tie wires from the formed surface at all times. All tie wires must be bent or turned back into the concrete members and away from the formed surface at all locations.
Concrete vertical and horizontal or longitudinal bars in concrete wall, beams, or columns shall be detailed, fabricated, and placed to have 2 1/2" of concrete coverage from the formed or unformed surface. Noted bars shall be placed and maintained during the concrete placement to provide between 2" and 2 1/2" of concrete cover at all times. At least 2" of concrete cover must be provided on vertical, horizontal, longitudinal bars and tie wires from the formed surface at all times. All tie wires must be bent or turned back into the concrete members and away from the formed surface at all locations.
The Contractor shall perform special quality control procedures to monitor, inspect, and confirm that the defined concrete coverage requirements are met at all locations. Prior to the installation of the form work to conceal the reinforcing bar placement, a detailed and thorough inspection must be performed to confirm that the defined concrete coverage requirements have been met on the reinforcing bars and tie wires and that all loose tie wires and debris have been removed from the formed enclosure.

A B C D

BBN

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

DWA
Dudley Williams and Associates, PA
230 Laura ▪ Suite 200 ▪ Wichita, KS 67211-1514
316-263-7591 ▪ www.dwase.com

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JON D. LUCAS LICENSED 14658 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:
GENERAL STRUCTURAL NOTES

Sheet:
S201

Of:

5 4 3 2 1

SPECIAL NOTES AND REQUIREMENTS REGARDING FOUNDATION SYSTEMS AND STRUCTURAL FRAMING SYSTEMS

A. SLEEVES OR BLOCKOUTS IN FOUNDATION WALLS

1. Sleeves or blockouts 10 inches or greater in any direction must be approved prior to installing in any foundation wall.
2. Locate sleeves or blockouts where the edge of the opening closest to the top or bottom of the walls is 12 inches or greater, unless specifically approved otherwise.
3. Provide 2-#5 bars, 4'-0" longer than the opening dimension, on all sides of the opening in the walls, with the bars centered on the opening.
4. No sleeves or blockouts shall occur within the columns or pilasters cast integral with the walls. No sleeves or blockouts shall occur in the walls directly below the beam bearing points unless specifically approved otherwise.
5. Provide a minimum of 12 inches of concrete between the adjacent sleeves or blockouts unless specifically approved otherwise.
6. Cored openings shall meet the same requirements as the sleeved openings.

B. SLEEVES OR BLOCKOUTS IN TRENCH FOOTINGS

1. Sleeves or blockouts 10 inches or greater in any direction must be approved prior to installing in any trench footings.
2. Locate sleeves or blockouts where the edge of the opening closest to the top or bottom of the trench footing is 12 inches or greater unless specifically approved otherwise.
3. Provide 2-#4 horizontal bars above and below the trench footing openings, one bar each face. Provide one additional trench footing stirrup placed with 2 inches to 3 inches each side of the trench footing sleeve or blockout for openings greater than 6 inches.
4. No sleeves or blockouts shall occur within the columns or pilasters cast integral with the trench footings.
5. Provide a minimum of 12 inches of concrete between the adjacent sleeves or blockouts unless specifically approved otherwise.
6. Cored openings shall meet the same requirements as sleeved openings.

C. MECHANICAL OR ELECTRICAL OPENINGS, SLEEVES, CONDUITS, OR CORED HOLES IN CONCRETE MASONRY WALLS

1. All lintels shall be built into the concrete masonry walls as the walls are being constructed.
2. Do not locate any masonry openings, sleeves, or cored holes directly below any joist or beam bearing plates unless specifically approved otherwise.
3. Mechanical duct openings in the concrete masonry walls that occur below the roof structures shall be located such that the opening and the lintel occur completely below the bond beams at the roof framing member bearing elevation, unless specifically approved otherwise.
4. Locate the top of all horizontal sleeves or cored holes in the concrete masonry walls that occur below the or roof structures to provide a minimum 8 inch deep bond beam lintel below the roof framing member bearing elevation and above the sleeves or cored holes unless approved otherwise.
5. Locate all horizontal sleeves or cored holes in the concrete masonry walls to provide a minimum of 8 inches of concrete masonry between adjacent sleeves or cored holes which are 4"Φ or less in size and to provide 16 inches of concrete masonry between adjacent sleeves or cored holes which are greater than 4"Φ in size, unless approved otherwise.
6. Do not place any conduit in vertically reinforced and/or grouted masonry cores, unless specifically approved otherwise. Vertical conduit may pass through horizontal bond beams, excluding bond beam lintels and bond beam lintel bearing, unless noted otherwise.
7. Multiple vertical conduits which exit the masonry wall horizontally at approximately the same elevation with a total width of more than 16 inches are considered wall openings. All recessed electrical panels in masonry walls are considered wall openings. Multiple horizontal sleeves and cored holes at approximately the same elevation which do not comply with Comment 5 of this section are considered openings. Provide lintel and masonry jamb reinforcing at these locations as indicated on the plans, lintel schedule, General Structural Notes, sections and details.
8. Electrical panels recessed into masonry walls shall be submitted to the Architect/Engineer for review and additional structural requirements. Submittal shall include the proposed plan location, the actual masonry rough opening dimensions, the proposed elevation at the top of the electrical panel rough opening, and the quantity and size of the conduit above and below the electrical panel.
9. Horizontal electrical conduit placed in masonry block walls shall have a maximum conduit size of 3/4 inch (0.922" maximum outside diameter) and the installation shall comply with the subsequently defined requirements. No conduit with a conduit size greater than 3/4 inch (0.922" maximum outside diameter) shall be installed horizontally in masonry walls unless specifically approved otherwise.
10. Do not place any horizontal conduit in horizontal bond beams, unless specifically approved otherwise.
11. Horizontal conduit within masonry walls shall be confined to the cores between the vertically reinforced and/or grouted masonry cores to the greatest extent possible. The 8 inch deep masonry course containing the horizontal conduit shall be grouted solid for the full horizontal length of the conduit.
12. A single 3/4 inch conduit (0.922" maximum outside diameter) may pass horizontally through a solid grouted and/or vertically reinforced core at the jamb of a wall opening where required to connect to an electrical device above or below the wall opening.
13. Notify Architect/Engineer of any required conduit installations which do not comply with the above criteria prior to the construction of the masonry wall.

D. EMBEDS, ANCHORS AND INSERTS IN STRUCTURAL MEMBERS AND SLABS

1. The general, mechanical, and electrical contractors shall be responsible for the design of all supplemental framing systems required for the support of the architectural, mechanical, and electrical systems which are not detailed on the structural drawings.

E. DIMENSIONAL AND ELEVATION CHECK AND TOLERANCE

1. As soon as possible after the completion of the noted items, the Contractor shall perform a dimensional and elevation check of the constructed items to confirm if the items have been built within an acceptable tolerance. The Contractor shall notify the Architect/Engineer for direction if the noted item have not been built within the specified tolerance.
2. The placement of all anchor rods or embeds in the concrete foundation systems for the attachment of structural steel framing systems shall be checked for accuracy in the dimensional location and elevation. The acceptable tolerance in the placement of anchor rods and embeds cast into concrete for structural steel connections shall be as defined in ACI 117, Specification for Concrete Construction and Materials and Commentary Section 2.3, and the AISC Code of Standard Practice for Steel Building and Bridges Section 7. It is recommended that the check be performed prior to delivery of the fabricated structural steel members to the site, where ever possible, so that any required modifications or adjustments to the structural members can be made as directed by the Architect/Engineer in the shop rather than in the field. Field cutting to enlarge holes or modify framing members or connecting plates or angles shall not be performed prior to receiving direction from the Architect/Engineer.
3. The placement of all reinforcing steel bars in cast-in-place concrete shall be checked to confirm that the specified or noted concrete coverage is being maintained on the reinforcing bars and tie wires. At all locations where the concrete surface in the completed building is exposed to view, exposed to the exterior, or exposed to a wet environment, the placement of the reinforcing bars and tie wires must be checked, modified where necessary, and approved prior to the placement of forms. All loose tie wires must be removed and the ends of all tie wires must be bent back into the concrete members. The reinforcing bar placement must be properly chaired or properly held in place to prohibit any displacement during the concrete placement.

TRENCH FOOTING SCHEDULE

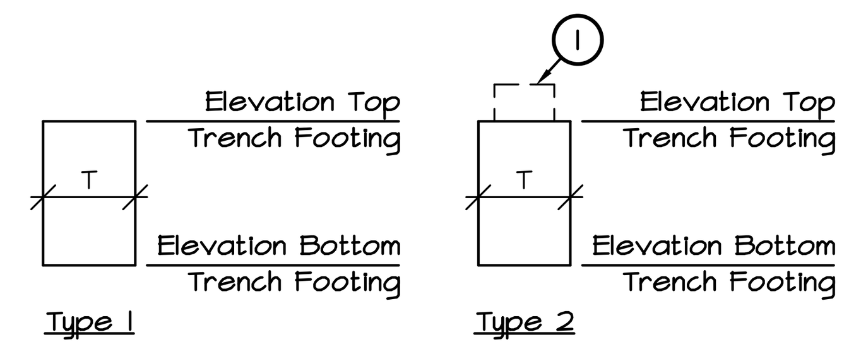
	MARK	TYPE	ELEV. BOTT	ELEV. TOP	ELEV. LEDGE	DIMENSIONS T	DIMENSIONS A	REF. SECTION	REMARKS
	T1	1	96-0	99-4	-	1-6	-	8-S301	See Section 11-S301 at Door
	T2	1	96-0	99-4	-	2-0	-	7-S301	See Section 11A-S301 at Door
	T3	1	96-0	99-4	-	1-6	-	9-S301	
	T4	1	96-0	99-4	-	1-6	-	10-S301	See Section 11-S301 at Door
(1)	T5	2	96-0	99-4	-	2-6	-	14-S301	
(1)	T6	2	96-0	99-4	-	3-6	-	14-S301	
(1)	T7	2	96-0	99-4	-	2-6	-	1-S302	
(1)	T8	2	96-0	99-4	-	3-0	-	1-S302	
	T9	1	96-0	99-4	-	2-6	-	7-S301	See Section 12&13-S301 at Glazing
	T10	1	96-0	99-4	-	1-6	-	17-S301	

TRENCH FOOTING SCHEDULE REMARKS:

(1) See plan, schedule, and sections for formed concrete wall conditions, dimensions, and elevations above trench footing.

TRENCH FOOTING SCHEDULE NOTES:

1. The scheduled trench footing width is the minimum structural width required. Where rigid insulation is required adjacent to the trench footing, increase the width of the excavation to allow for the structural width of the trench footing plus the thickness of the insulation. See Architectural Drawings for locations with foundation insulation.



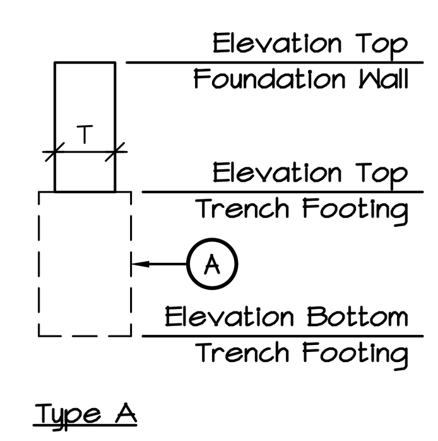
TRENCH FOOTING SCHEDULE TYPES

WALL FOOTING AND FOUNDATION SCHEDULE

MARK	TYPE	FOOTING ELEV. TOP	FOOTING WIDTH W	FOOTING DEPTH D	FOUNDATION ELEV. TOP	FOUNDATION ELEV. LEDGE	FOUNDATION DIMENSIONS T	FOUNDATION DIMENSIONS A	REF. SECTION	REMARKS
W1	A	(A)	(A)	(A)	101-4	-	1-0	-	14-S301	
W2	A	(A)	(A)	(A)	102-8	-	1-0	-	14-S301	
W3	A	(A)	(A)	(A)	102-8	-	1-0	-	1-S302	

WALL FOOTING AND FOUNDATION SCHEDULE REMARKS:

(A) See Trench Footing Mark and Schedule for trench footing dimensions and elevations.



WALL FOOTING AND FOUNDATION SCHEDULE TYPES

CONCRETE COLUMN AND FOOTING SCHEDULE

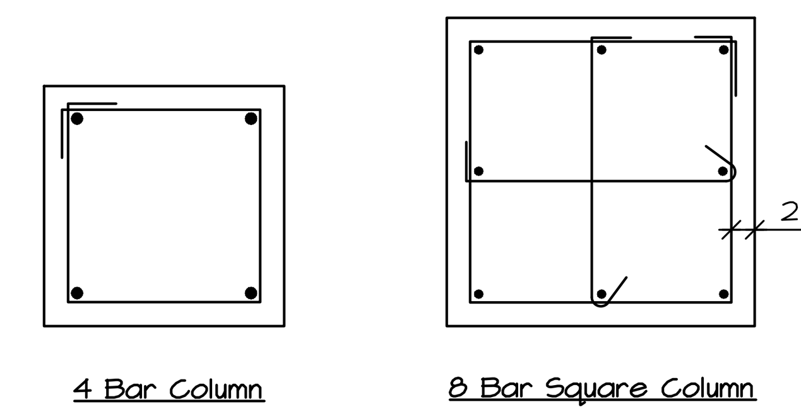
MARK	F1	F2	F3	F4	F5
	(1)	Reinforce as a	Reinforce as a		
COLUMN SIZE	-	20x20 Column	20x20 Column	32x32	32x32
ELEV. TOP COLUMN	-	99-4	99-4	110-0	110-0
COLUMN VERTS.	-	Footing Dowels	Footing Dowels	(8) #8x10-4	(8) #8
COLUMN TIES	-	(2)	(2)	(3)	(3)
ELEV. TOP FOOTING	99-4	99-4	99-4	99-4	See Section 4-S302
FOOTING SIZE	3-0x3-0x3-4	3-0x3-0x3-4	3-6x3-6x3-4	5-0x5-0x3-4	5-0x5-0x3-4
FOOTING BARS	(8) #5x2-6 4 Each Way	(8) #5x2-6 4 Each Way	(8) #5x3-0 4 Each Way	10-#6x4-6 5 Each Way	10-#6x4-6 5 Each Way
FOOTING DOWELS	Masonry Dowels	(4) #7x4-0 2-10 / 1-2	(4) #7x4-0 2-10 / 1-2	(8) #8x8-4 7-0 / 1-4	(8) #8x8-4 7-0 / 1-4

CONCRETE COLUMN AND FOOTING SCHEDULE REMARKS:

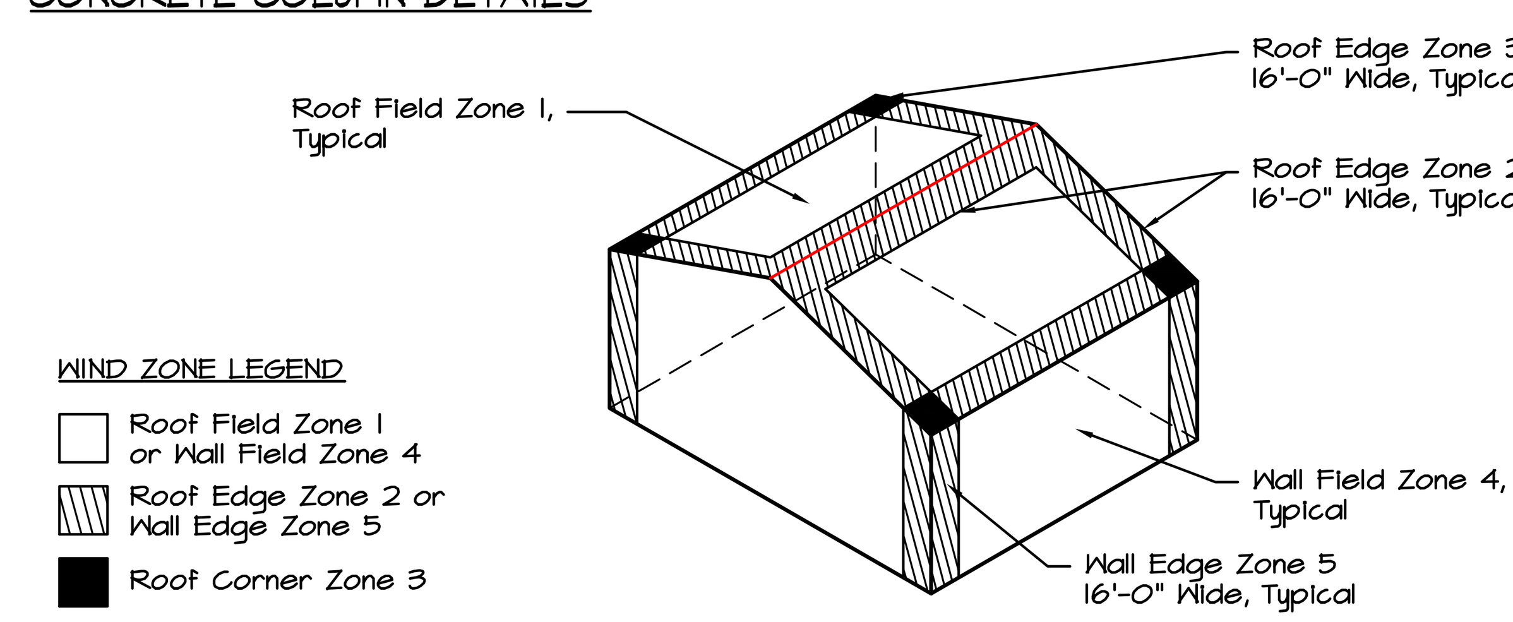
(1) Center pad footing below beam bearing location.

(2) #3 column ties, 4 at 3" o.c. at top of column with remainder at 12" o.c.

(3) #4 column ties, 1 at 3" o.c. at top of column with remainder at 12" o.c.



CONCRETE COLUMN DETAILS



SCHEMATIC COMPONENTS AND CLADDING WIND PRESSURE ZONES DIAGRAM

ROOF COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURES

ZONE	ALL ZONES	NO OVERHANG ZONE 1	NO OVERHANG ZONE 2	NO OVERHANG ZONE 3	OVERHANG ZONE 2	OVERHANG ZONE 3
WIND AREA (FT^2)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)
10	+16.6	-26.4	-45.9	-67.9	-53.7	-90.4
20	+15.1	-25.6	-42.2	-63.5	-53.7	-81.6
50	+13.2	-24.7	-37.4	-57.7	-53.7	-69.9
100	+11.7	-23.9	-33.7	-53.3	-53.7	-61.1

ROOF COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURE TABLE NOTES:

1. Positive pressures act inward to the building envelope.
2. Negative pressures act outward to the building envelope.
3. The use of linear interpolation is permitted for wind areas not shown.
4. Wind pressures indicated in table are gross ultimate wind pressures to be used with the load combinations defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.
5. Wind areas for components and cladding shall be the wind area as defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.
6. Roof joists shall be designed for tabulated gross uplift forces less dead load. The dead load to be used in the uplift calculations shall not exceed 10 psf after applying the appropriate allowable stress design or strength design reduction factor for the wind uplift load cases.

WALL COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURES

LOCATION	WALL	WALL	WALL	PARAPET			
ZONE	ZONE 4/5	ZONE 4	ZONE 5	ZONE 4		ZONE 5	
WIND AREA (FT^2)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	CASE A (PSF)	CASE B (PSF)	CASE A (PSF)	CASE B (PSF)
10	+28.8	-31.3	-38.6	+74.8	-60.1	+96.7	-67.4
50	+25.8	-28.3	-32.6	+63.2	-54.1	+83.5	-58.4
100	+24.5	-27.0	-30.0	+58.2	-51.5	+77.8	-54.5
200	+23.2	-25.7	-27.4	+56.9	-48.9	+76.5	-50.6
500	+21.5	-23.9	-23.9	+55.2	-45.4	+74.8	-45.4

WALL COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURES TABLE NOTES:

1. Positive pressures act inward to the building envelope.
2. Negative pressures act outward to the building envelope.
3. The use of linear interpolation is permitted for wind areas not shown.
4. Wind pressures indicated in table are gross ultimate wind pressures to be used with the load combinations defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.
5. Wind areas for components and cladding shall be the wind area as defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.

A
B
C
D

BBN

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

DWA Dudley Williams and Associates, PA
230 Laura ▪ Suite 200 ▪ Wichita, KS 67211-1514
316-263-7591 ▪ www.dwase.com

17-045.01 S202 in I:\17-045\17-045.01\S-2X 7/7/2017 [NEI] [1:24]

JON D. LUCAS LICENSED 14658 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name: USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address: 4290 COLUMBIAN ROAD WAMEGO, KS

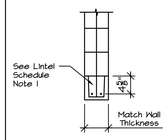
Sheet Title: NOTES, SCHEDULES, AND DETAILS

Sheet: S202

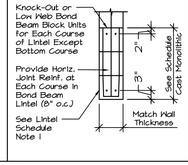
Of:

LINTEL SCHEDULE

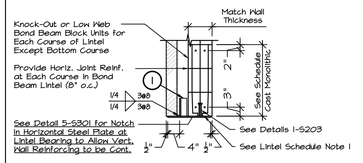
TYPE A



TYPE B



TYPE C



MARK	MEMBERS	TYPE	REMARKS
LA1	8" Deep Bond Beam Lintel with (2) #5 Cont. Reinf. Bars	A	
LB1	16" Deep Bond Beam Lintel with (4) #5 Cont. Reinf. Bars	B	
LB2	24" Deep Bond Beam Lintel with (4) #5 Cont. Reinf. Bars	B	
LC1	Lintel LB1 with Horizontal Bottom PL 5/16x15 and Continuous Vertical PL 3/8x6	C	(2)
LC2	Lintel LB2 with Horizontal Bottom PL 5/16x15 and Continuous Vertical PL 3/8x6	C	(2)

LINTEL SCHEDULE REMARKS:

(1) Stiffener plate 3/8x2 at 12" from each end of tee plate lintel and equally spaced at maximum 48" o.c. between unless noted otherwise. Weld to vertical and horizontal plates with 3/16" fillet welds all around.

(2) Bear built-up tee plate lintel 8" on to masonry veneer at each end. Provide notch in horizontal steel plate where lintel bears on concrete masonry wall (bear 1½" onto CMU) per Detail 5-5301 to allow vertical wall opening jamb reinforcing to be continuous and uninterrupted by horizontal steel plate.

LINTEL SCHEDULE NOTES:

1. TYPICAL AT ALL BOND BEAM LINTELS: Extend bond beam lintels a minimum of 24" beyond concrete masonry jambs. Provide horizontal reinforcing with corner bars where 24" extension is not possible. Special U-shaped bond beam lintel block units shall be used for bottom course of all bond beam lintels. Knock-out or low web bond beam block units shall be used for all courses of bond beam lintels except for the bottom course. Properly shore all bond beam lintels during block and grout placement and all shores shall remain in place for a minimum of 7 days and until the grout has attained it's specified compressive strength. Bond beam lintels shall be filled with grout for the entire depth and length of bond beam in one monolithic pour. Grout solid 2 cores (16" minimum) adjacent to opening below lintel bearing for full height of wall below lintel bearing. See Detail 1-5203 for built-up steel tee plate lintel details in masonry walls. See Detail 5-5301 for typical bond beam (and bond beam with built-up steel tee plate) lintel bearing and reinforcing placement at jambs of openings in masonry walls, unless indicated otherwise.
2. Galvanize all exterior steel lintels.
3. Build masonry veneer tight below lintel bottom plates at end of lintels for bearing prior to laying lintel supported masonry veneer.
4. Provide continuous bond beam lintel (where bond beam lintel is required per schedule) over adjacent wall openings to create multiple span lintel condition where the masonry wall remaining between adjacent wall openings is less than or equal to 4'-0".
5. Not all openings which require lintels are shown on Structural Drawings. Refer to the Architectural, Mechanical, and Electrical drawings for locations of additional openings in masonry walls. See the Architectural Drawings for size, location, and elevation of all wall openings. Determine the size, location, and elevation of all mechanical and electrical wall openings from the Mechanical and Electrical Drawings. (Verify the Mechanical and Electrical openings with the Mechanical and Electrical Contractors.) All lintels shall be built into masonry walls as the walls are being constructed.
6. Provide lintels as indicated below for openings that are not shown on plans.

   Typical Lintels Over Exterior Openings -
   Provide Lintel LB1 at all openings 2'-8" or less in width in exterior concrete masonry walls, unless noted otherwise.
   Provide Lintel LC1 at all openings 2'-8" or less in width in exterior concrete masonry walls with masonry veneer, unless noted otherwise.

   Typical Lintels Over Interior Architectural, Mechanical, or Electrical Openings-
   Provide Lintel LA1 at all openings 3'-4" or less in width in new interior concrete masonry non-load bearing walls, unless noted otherwise.
   Provide Lintel LB1 at all openings greater than 3'-4" and 5'-4" or less in width in new interior concrete masonry non-load bearing walls and at all openings 2'-8" or less in width in new interior concrete masonry load bearing walls, unless noted otherwise. The opening width must not occur directly below or within 1'-0" of a beam bearing point, unless approved otherwise.
   Provide Lintel LB2 at all openings greater than 2'-8" and 4'-0" or less in width in new interior concrete masonry load bearing walls, unless noted otherwise. The opening width must not occur directly below or within 1'-0" of a beam bearing point, unless approved otherwise.
   Provide a minimum of 24 inches of solid masonry between adjacent mechanical or electrical openings unless approved otherwise.

STEEL COLUMN SCHEDULE

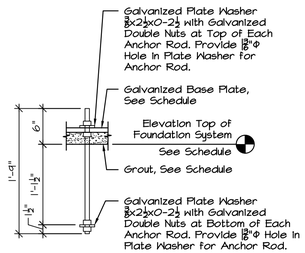
MARK	S1	S2	S3
	(1)		
COLUMN SECTION	HSS4x4x¼	HSS5x5x¼	HSS6x3x¼
BASEPLATE	PL ¾x10x10	PL ¾x11x11	PL ¾x10x10
BASEPLATE DTL	A	A	B
ELEV. BOTTOM	99-6	99-6	99-6
GROUT	2"	2"	2"
ANCHOR RODS	(4) AR1	(4) AR2	(4) AR2

STEEL COLUMN SCHEDULE AND DETAIL NOTES:

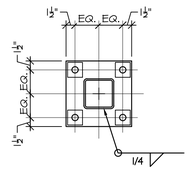
1. Base Plate Anchor Rods:
   AR1 - 3/4"Φx1-9 Galvanized Anchor Rod (6" projection)
   AR2 - 3/4"Φx1-9 Anchor Rod (6" projection)
2. Base Plate Anchor Rod Hole Sizes:
   Provide 1 1/16"Φ holes in base plates for 3/4"Φ anchor rods.

STEEL COLUMN SCHEDULE REMARKS:

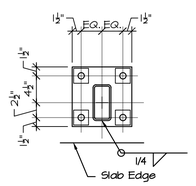
(1) Galvanize column assembly and all associated hardware.



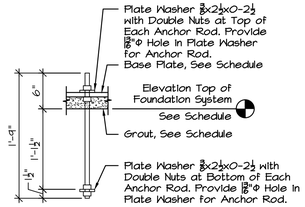
Anchor Rod AR1



Base Plate A



Base Plate B

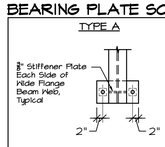


Anchor Rod AR2

BASE PLATE SCHEDULE DETAILS

BEARING PLATE SCHEDULE

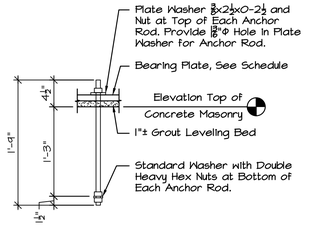
TYPE A



MARK	MEMBERS	TYPE	REMARKS
BA1	PL ½"x1'-4 with (2) AR3	A	

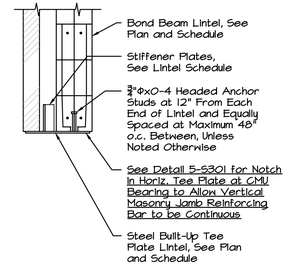
BEARING PLATE SCHEDULE NOTES:

1. Grout all block cores (2 block cores minimum, unless noted otherwise) solid below bearing plate for full height of wall. Bolt bearing plate to masonry wall. Field weld steel beam to bearing plate. Lay concrete masonry solid around beam bearing after installing beam where concrete masonry wall occurs either side of beam. See Detail 1-5402 for additional notes and information.
2. Bearing Plate Anchor Rods:
   AR3 - 3/4"Φx1-4 Anchor Rod (4 1/2" projection)
3. Bearing Plate Anchor Rod Hole Sizes:
   Provide 1 1/16" diameter holes in bearing plates for 3/4" diameter anchor rods.



Anchor Rod AR3

BEARING PLATE SCHEDULE DETAIL



1 TYPICAL STEEL LINTEL DETAIL
No Scale

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

Dudley Williams and Associates, PA.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316-263-7591 • www.dwaice.com

17-045.01 S203 in I:\17-045\17-045.01\S-2X 7/7/2017 [MD] [1:24]

VON D. LUCAS LICENSED 14668 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

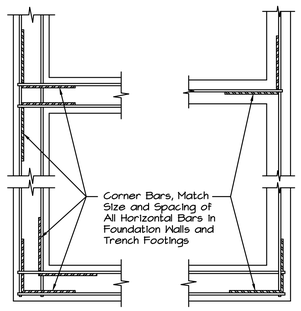
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

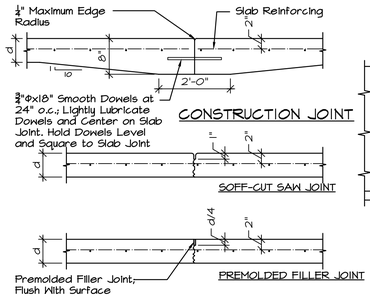
Sheet Title:
SCHEDULES AND DETAILS

Sheet: **S203**

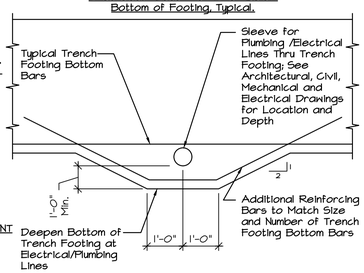
Of:

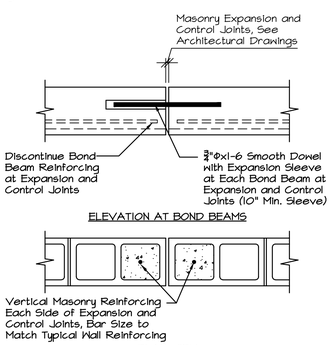


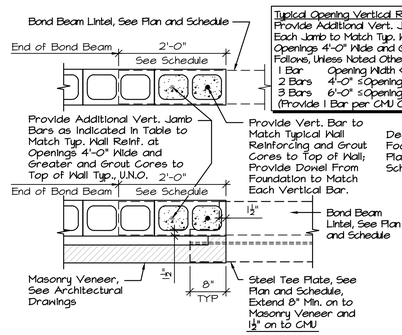
TYPICAL DETAIL AT ALL FOUNDATION WALLS AND TRENCH FOOTINGS



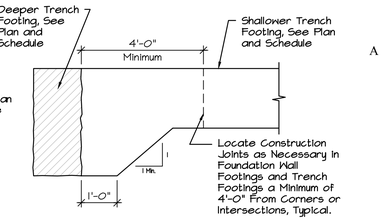
NOTE: All Saw Cut Joints in Interior Floor Slabs Shall Use Soff-cut or Early Entry Dry-cutting Sawing System.



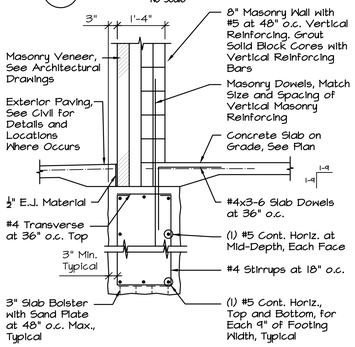




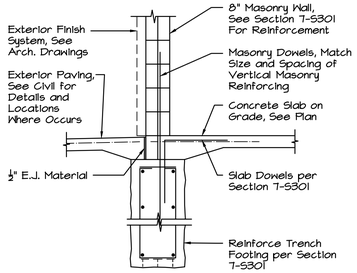
Typical Lintel Bearing Detail at Bond Beam and Bond Beam with Built-Up Steel Tee Plate Lintels



1 TYP. CORNER BAR DETAIL — No Scale

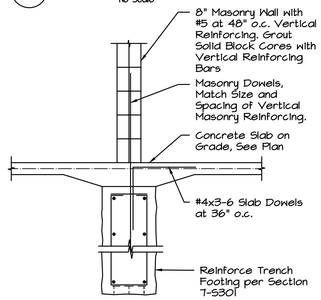


2 TYP. SLAB JOINT DETAILS — No Scale



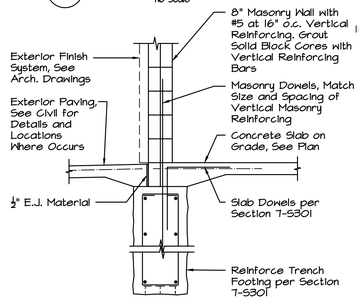
Center Trench Footing Below Masonry Wall, U.N.O.

3 TYPICAL DETAIL — No Scale



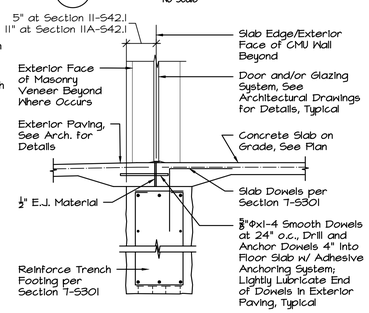
Center Trench Footing Below Masonry Wall, U.N.O.

4 TYP. MASONRY EJ/CJ DETAILS — No Scale



Center Trench Footing Below Masonry Wall, U.N.O.

5 TYP. BOND BEAM LINTEL BEARING DETAILS — No Scale

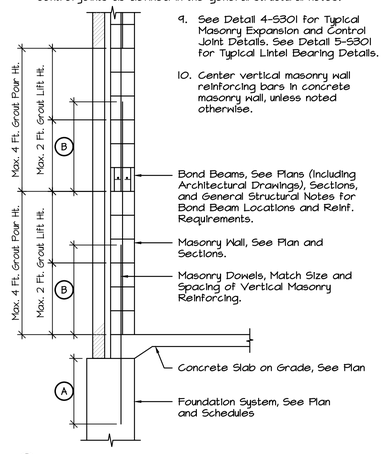


Center Trench Footing Below Masonry Wall, U.N.O.

6 TYPICAL DETAIL — No Scale

Typical Masonry Wall Reinforcing and Grouting Notes:

1. Grout solid all noted block cores and all cores with vertical reinforcing bars. Grout shall attain a 2500 psi minimum 28 day compressive strength and shall have a 8 in. to 10 in. slump range.
2. Grout shall be placed in maximum 24 in. grout lift heights and each lift height shall be consolidated by mechanical vibration during grout placement.
3. Reconsolidate each grout lift height 5 to 15 minutes after initial grout placement by mechanical vibration. Initial grout lift height shall be consolidated and reconsolidated prior to placement of additional grout lift to complete the grout pour height.
4. The grout horizontal construction joint at each pour height shall stop a minimum of 1½" below a block mortar joint, except at the top of the wall or at the block coursing below bond beams, beam bearing, or other similar locations. Adjust grout level after reconsolidation at the top of walls, below bond beams, below beam bearings, or other similar locations as required to attain the proper top of grout elevation.
5. Use a small headed vibrator and only vibrate each grouted core for a few seconds during the consolidation and reconsolidation process.
6. Mortar shall not project more than ¼" from the face of the block into the block core in all block cores to be grouted. Clean out the block cores of all mortar droppings or excessive mortar projections prior to starting the grouting process.
7. Provide horizontal joint reinforcing per specifications at 16" o.c. vertically, unless noted otherwise.
8. Provide vertical masonry reinforcing and masonry dowels (in addition to bars at the defined spacing) at corners, jambs of openings, each end and at corners of masonry walls, and control joints as defined in the general structural notes.
9. See Detail 4-S301 for Typical Masonry Expansion and Control Joint Details. See Detail 5-S301 for Typical Lintel Bearing Details.
10. Center vertical masonry wall reinforcing bars in concrete masonry wall, unless noted otherwise.

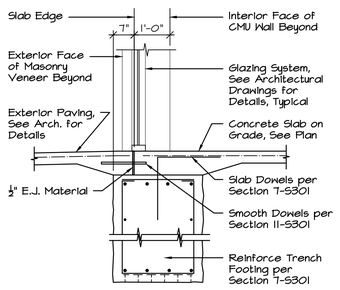


(A) Masonry Dowel Embedment Length into Foundation System or Concrete Beam:
#4 Bars - 2'-0" Minimum
#5 Bars - 2'-6" Minimum
(Provide Standard 90° Hook Where Required Straight Embedment is Not Available)

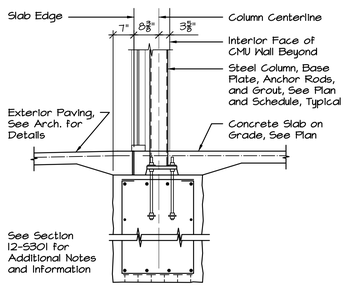
(B) Masonry Vertical Bar Lap Splice Length at Each Grout Pour Height:
#4 Bars - 2'-0" Minimum
#5 Bars - 2'-6" Minimum

Contractor's Option:
Vertical Masonry Reinforcing Bars May be Mechanical Spliced Rather Than Lap Spliced at The Contractors Option. Mechanical Bar Splices Shall be Dayton Superior D-310 Taper-lock Coupler System, Erico Lenton Taper Threaded Splicing System, or an Approved Equal.

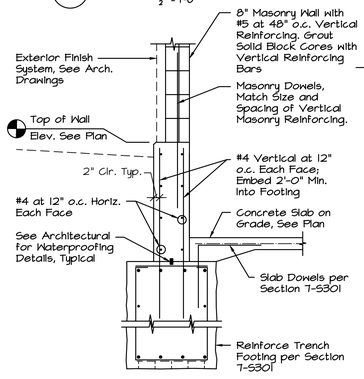
7 SECTION — ½" = 1'-0"



8 SECTION — ½" = 1'-0"



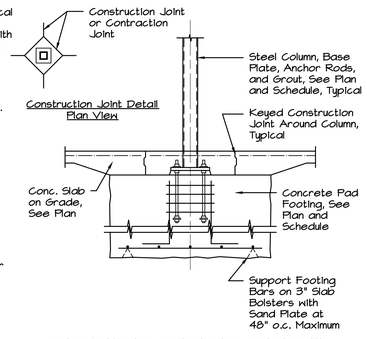
9 SECTION — ½" = 1'-0"



Center Trench Footing Below Concrete Wall, U.N.O.

14 SECTION — ½" = 1'-0"

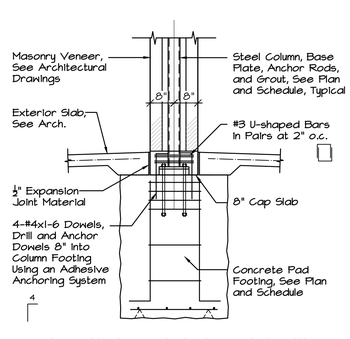
10 SECTION — ½" = 1'-0"



Center Pad Footing on Steel Column Centerline, U.N.O.

15 SECTION — ½" = 1'-0"

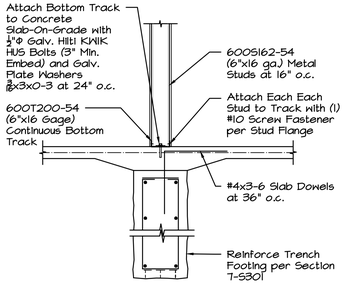
11A 11 SECTION — ½" = 1'-0"



Center Pad Footing on Steel Column Centerline, U.N.O.

16 SECTION — ½" = 1'-0"

12 SECTION — ½" = 1'-0"



Center Trench Footing Below Metal Stud Wall, U.N.O.

17 SECTION — ½" = 1'-0"

18 TYP. WALL REINF. DETAIL — No Scale

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17-045.01 S301 in I:\17-045\17-045.01\S-3X 7/7/2017 [MD] [1:24]

JON D. LUCK LICENSED PROFESSIONAL ENGINEER 14668 KANSAS 7/7/17

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

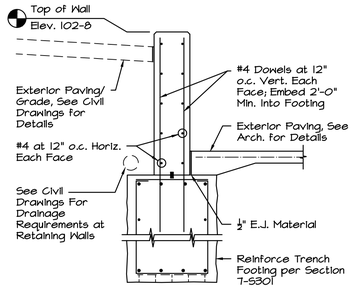
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
FOUNDATION SECTIONS AND DETAILS

Sheet: **S301**

Of:

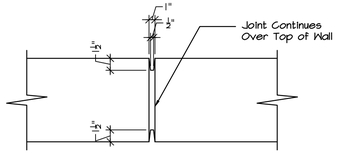


Center Trench Footing Below Concrete Wall, U.N.O.

1 SECTION
½" = 1'-0"

Typical Concrete Retaining Wall Joint Notes:

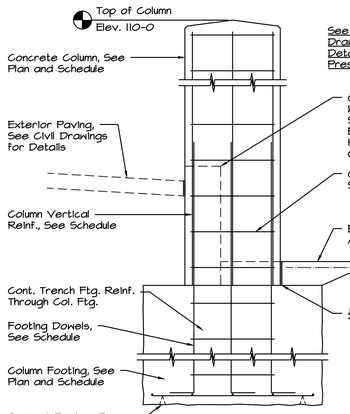
1. Provide Retaining Wall Control Joints At Maximum 20' o.c. In All Concrete Retaining Walls; Coordinate Control Joint Locations with Architectural.
2. Field Cut Alternate Wall Bars at Control Joints; Provide 2" Gap Between End of Cut Bars.



Typical Retaining Wall Control Joint

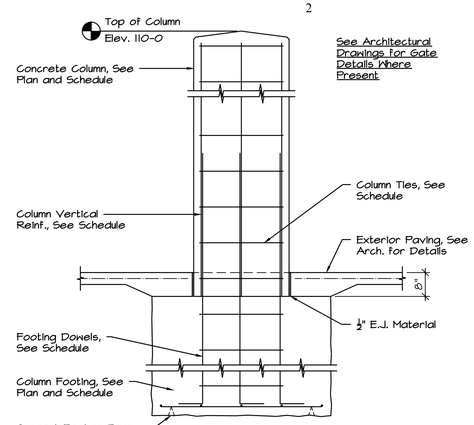
Construction Joint Shall Have Same Reveal Profile as Control Joint. All Horiz. Bars Shall Continue thru Construction Joints, Typ.

2 DETAIL
No Scale



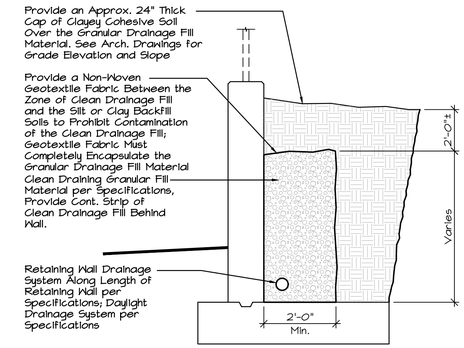
Center Pad Footing on Concrete Column Centerline, U.N.O.

3 SECTION
½" = 1'-0"



Center Pad Footing on Concrete Column Centerline, U.N.O.

4 SECTION
½" = 1'-0"



Typical Backfill Detail at Site Retaining Walls and at Foundation Wall Marks W1 and W2

5 TYP. BACKFILL DETAIL
No Scale

Provide Corner Bars Matching the Size and Spacing of All Horizontal Reinforcement in Trench Footings at Corner Locations.

6 TYPICAL DETAIL
¾" = 1'-0"

Typical Expansion Joint Detail Between Formed Foundation Walls and Between Formed Foundation Walls and Formed Retaining Walls.

7 TYP. FDN. WALL E.J. DETAIL
No Scale

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17-045.01 S302 in I:\17-045\17-045.01\S-3X 7/7/2017 (MD) (1:24)

VON D. LUCAS LICENSED 14668 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

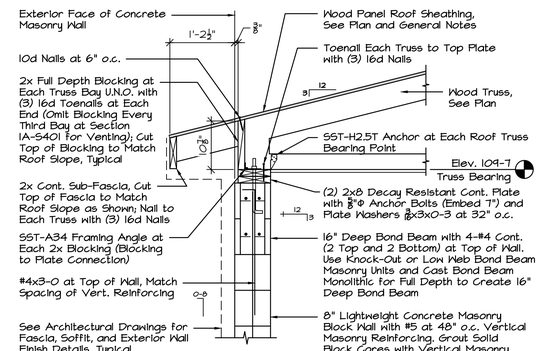
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

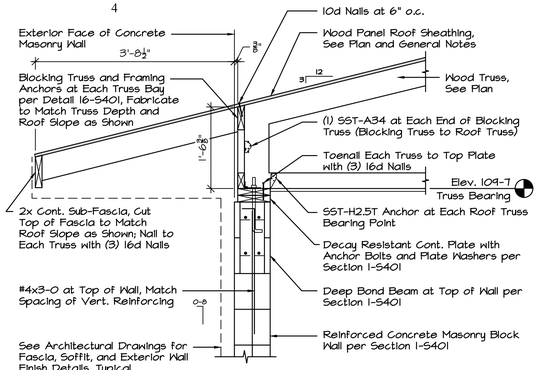
Sheet Title:
FOUNDATION SECTIONS AND DETAILS

Sheet:
S302

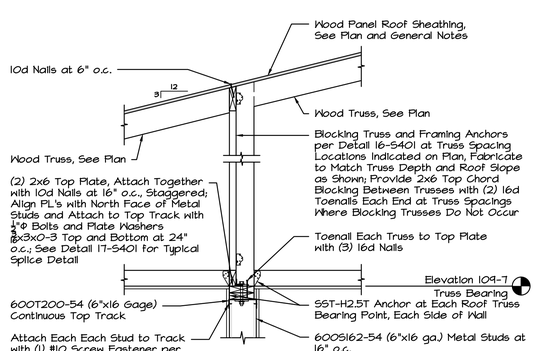
Of:



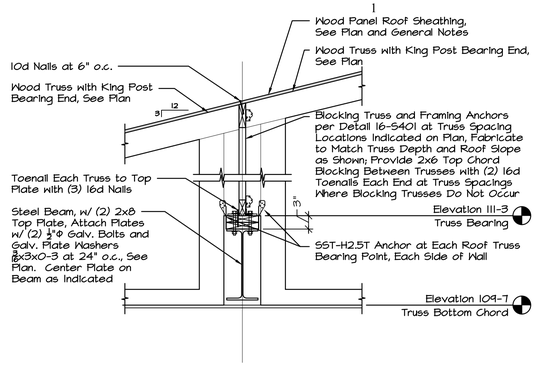
1A 1 SECTION ¾" = 1'-0"



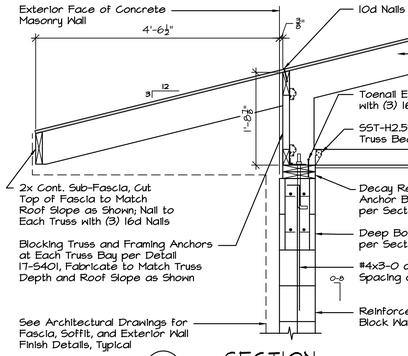
2 SECTION ¾" = 1'-0"



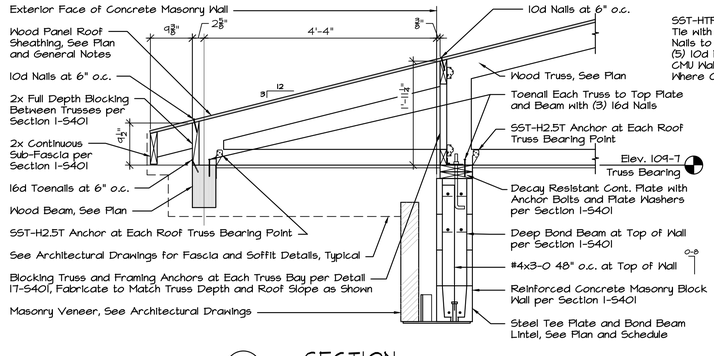
3 SECTION ¾" = 1'-0"



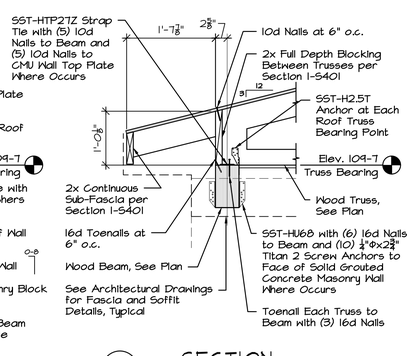
4 SECTION ¾" = 1'-0"



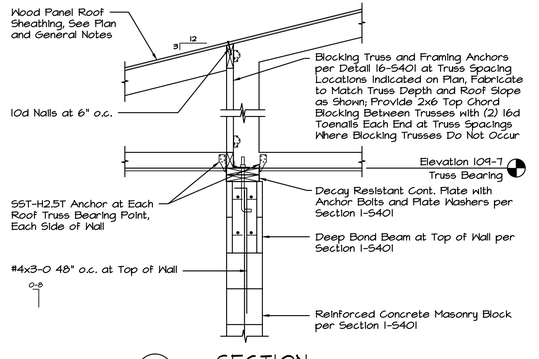
5 SECTION ¾" = 1'-0"



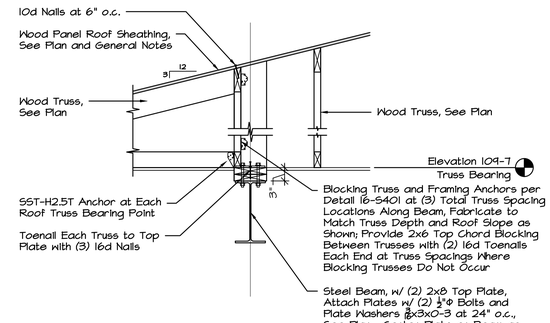
6 SECTION ¾" = 1'-0"



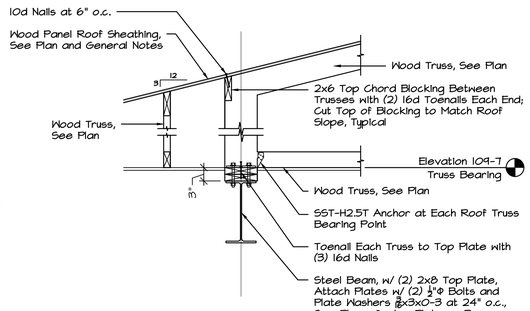
7 SECTION ¾" = 1'-0"



8 SECTION ¾" = 1'-0"



9 SECTION ¾" = 1'-0"



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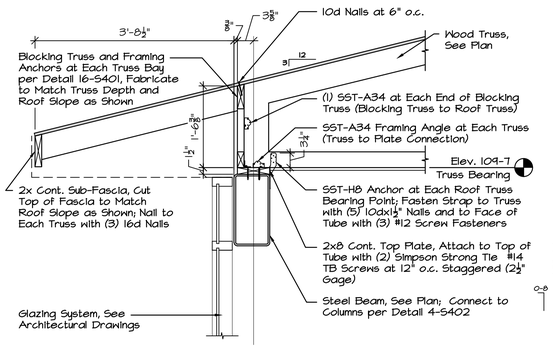
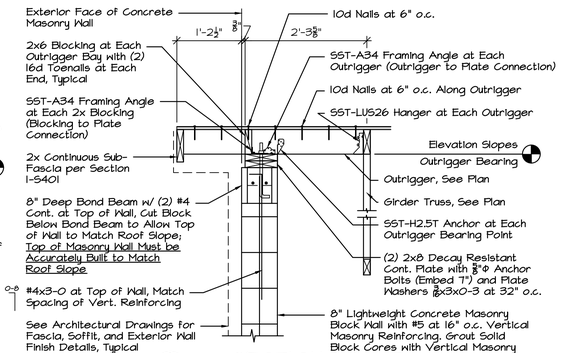
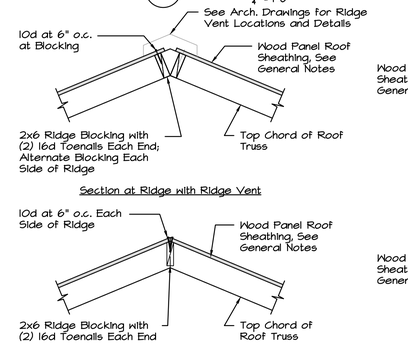


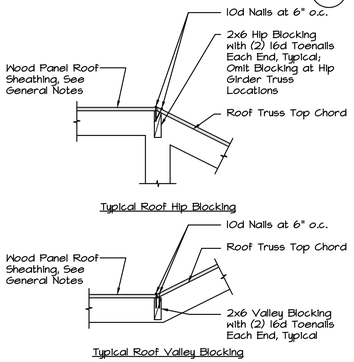
11 SECTION ¾" = 1'-0"



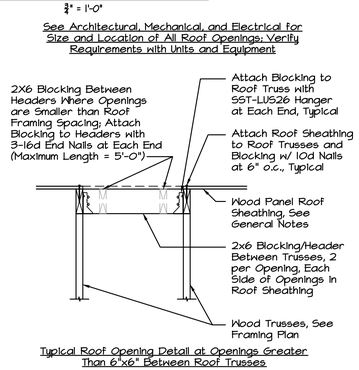
12 SECTION ¾" = 1'-0"



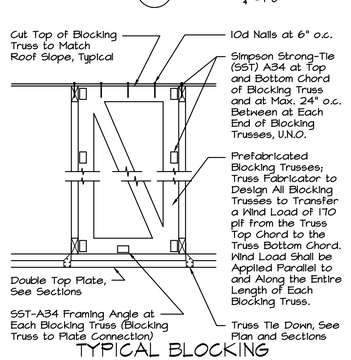
13 TYPICAL DETAIL No Scale



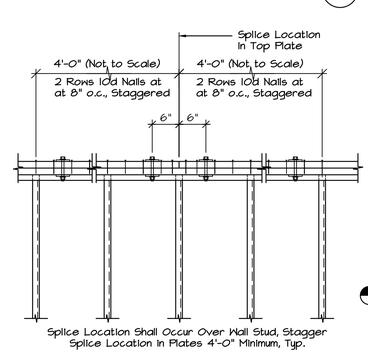
14 TYPICAL DETAIL No Scale



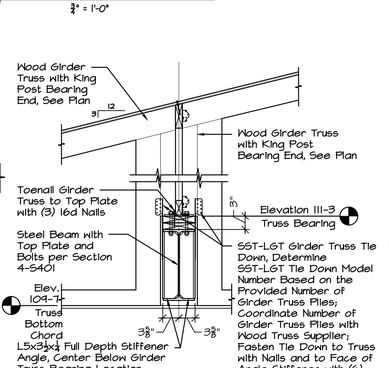
15 TYP. ROOF OPENING DETAIL No Scale



TYPICAL BLOCKING TRUSS DETAIL No Scale



17 TYP. SPLICE DETAIL No Scale



18 DETAIL ¾" = 1'-0"

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17-045.01 S401 in I:\17-045\17-045.01\S-4X 7/7/2017 [MD] [1:1]6

JON D. LUCKE LICENSED 14668 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

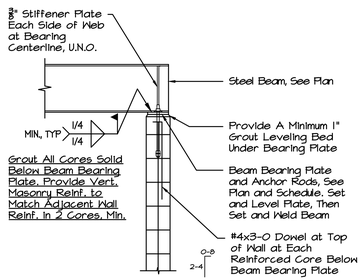
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

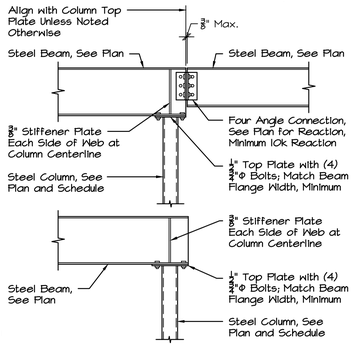
Sheet Title:
FRAMING SECTIONS AND DETAILS

Sheet:
S401

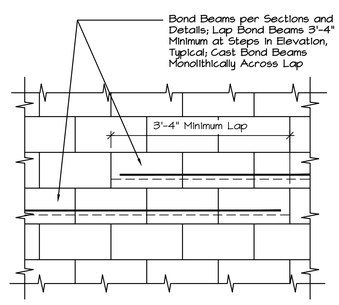
Of:



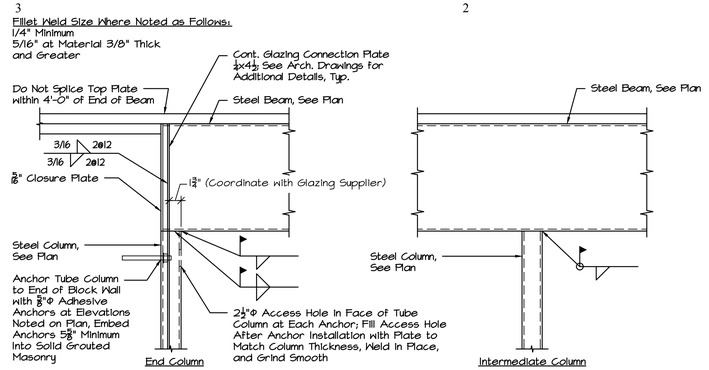
1 TYPICAL FRAMING DETAILS
No Scale



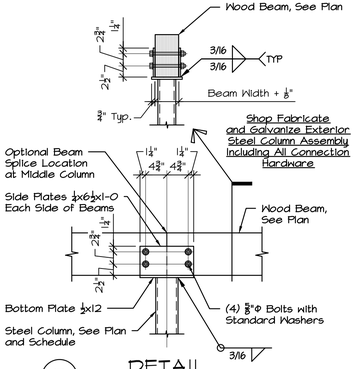
2 TYPICAL FRAMING DETAILS
No Scale



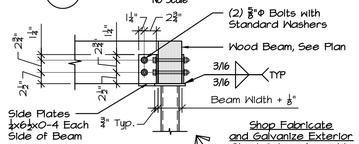
3 TYPICAL STEPPED BOND BEAM DETAIL
No Scale

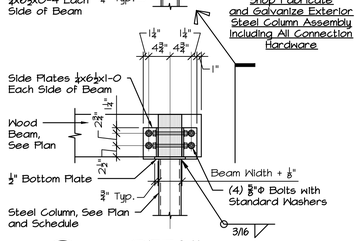


4 TYPICAL FRAMING DETAILS
No Scale

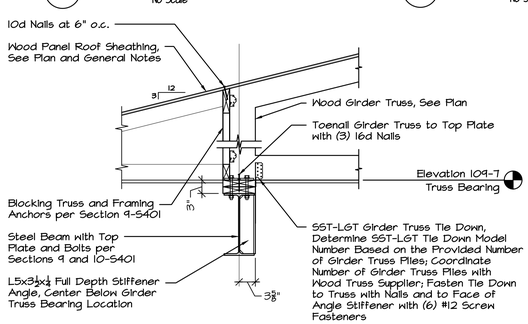


5 DETAIL
¾" = 1'-0"

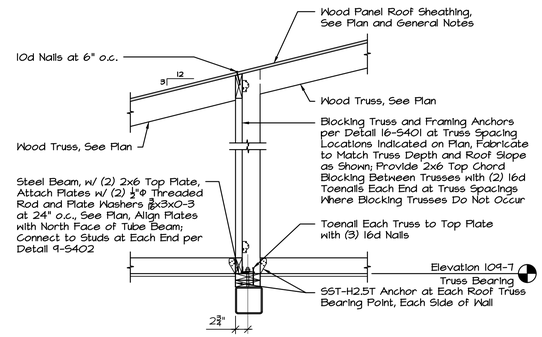




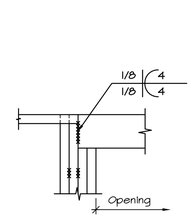
6 DETAIL
¾" = 1'-0"
Typical Top of Masonry Wall Bracing Detail
Contractor to Coordinate Brace Locations and Quantities



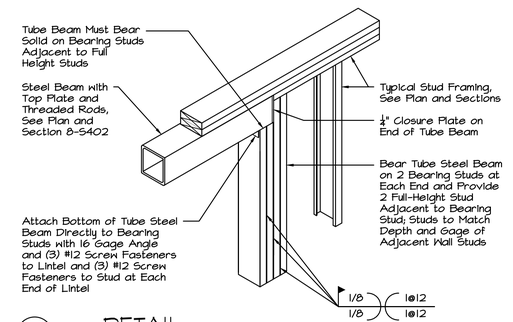
7 DETAIL
¾" = 1'-0"
Typical Top of Masonry Wall Bracing Detail
Contractor to Coordinate Brace Locations and Quantities



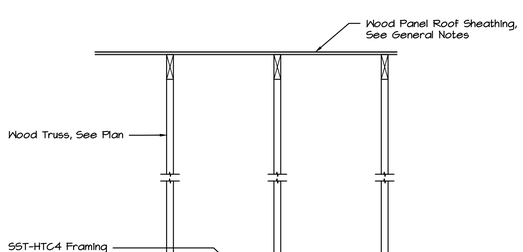
8 SECTION
¾" = 1'-0"



TYP. JAMB DETAIL

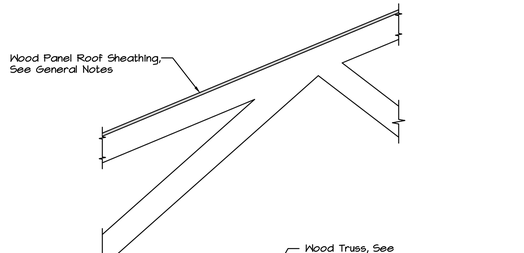


9 DETAIL
No Scale



Typical Top of Wall Brace Detail at Non-load Bearing Masonry Walls Which are Parallel to Wood Trusses, U.N.O.

10 SECTION
¾" = 1'-0"



Typical Top of Wall Brace Detail at Non-load Bearing Masonry Walls Which are Perpendicular to Wood Trusses, U.N.O.

11 SECTION
¾" = 1'-0"

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17-045.01 S402 in I:\17-045\17-45 7/7/2017 (MD) [1:1]6

JON D. LUCAS LICENSED 14668 7/7/17 KANSAS PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number: 16036
Date: 7/7/17
Project Name: USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS
Project Address: 4290 COLUMBIAN ROAD WAMEGO, KS
Sheet Title: FRAMING SECTIONS AND DETAILS
Sheet: S402
Of:

ABBREVIATIONS:

THE FOLLOWING LIST OF ABBREVIATIONS MAY BE USED IN THE CONTRACT DOCUMENT DRAWINGS.

&	AND
∠	ANGLE
@	AT
ø	DIAMETER
#	NUMBER OR POUND
ACOUST.	ACOUSTICAL
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BD.	BOARD
BLDG.	BUILDING
BLKG.	BLOCKING
B.O.	BOTTOM OF
BRG.	BEARING
B.S.	BOTH SIDES
℄	CENTERLINE
CH.	CHANNEL
C.J.	CONTROL JOINT
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CTR.	CENTER
DBL.	DOUBLE
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.S.	EACH SIDE
EXP.	EXPANSION
EXIST.	EXISTING
EXT.	EXTERIOR
E.W.	EACH WAY
FIN.	FINISH
FL.	FLOOR
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
FR.	FRAME
FT.	FOOT OR FEET
FURR.	FURRING
F.D.	FLOOR DRAIN
GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS
G.S.	GROUT SOLID
GYP. BD.	GYPSUM BOARD
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HT.	HEIGHT
I.D.	INSIDE DIAMETER/DIMENSION
IN.	INCH
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
L	LONG/LENGTH
LT. (LTS.)	LIGHT/LIGHTING
LVG.	MAXIMUM
MAX.	LIGHTWEIGHT CONCRETE
MECH.	MECHANICAL
MFG.	MANUFACTURING
MFTR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR/MIRRORED
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTL.	METAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.P.S.	NOMINAL PIPE STANDARD
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER/DIMENSION
O.H.	OPPOSITE HAND
OPNG.	OPENING
OVHD.	OVERHEAD
OZ.	OUNCE
PL.	PLATE
PLBG.	PLUMBING
PLYWD.	PLYWOOD
POL.	POLISHED
PR.	PAIR
PT.	POINT
PTD.	PAINTED
QTY.	QUANTITY
R	RISER OR RADIUS
R.C.P.	REFLECTED CEILING PLAN
RE.	REFERENCE
REINF.	CONNECTION
REQ'D.	REQUIRED
REV.	REVISION OR REVERSED
RM.	ROOM
R.O.	ROUGH OPENING
S.C.	SOLID CORE OR SEALED CONCRETE
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	SQUARE FOOT
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION(S)
SP. HD.	SPRINKLER HEAD
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STO.	STORAGE
STRUCT.	STRUCTURAL
SQ. YD.	SQUARE YARD
SYS.	SYSTEM
T	TREAD
TEL.	TELEPHONE
TEMP.	TEMPORARY
T.O.	TOP OF
T.O.D.	TOP OF DECK
T.O.S.	TOP OF SLAB/STEEL
T.O.W.	TOP OF WALL
TV	TELEVISION
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W/I	WITHIN
W/O	WITHOUT
WD.	WOOD
WDW.	WINDOW
WT.	WEIGHT

MATERIAL IDENTIFICATION KEY:

- CONCRETE
- CONCRETE MASONRY UNITS
- PRECAST CONCRETE
- EARTH
- STEEL
- DISCONTINUOUS LUMBER
- CONTINUOUS LUMBER
- RIGID INSULATION
- BLANKET INSULATION
- GYPSUM BOARD
- PLYWOOD
- FINISHED WOOD
- GRANULAR FILL
- METAL STUD FRAMING
- WOOD STUD FRAMING

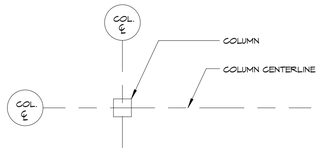
DIMENSIONING CRITERIA:

ALL DRAWINGS ARE INTENDED TO BE COMPLIMENTARY. NOTIFY THE ARCHITECT OF ANY DIMENSIONING DISCREPANCY PRIOR TO PROCEEDING.

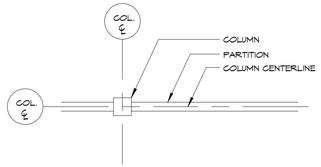
DIMENSIONS ARE AS IDENTIFIED ON THE DOCUMENTS AND AS ESTABLISHED BY CRITERIA. THIS INVOLVES ESTABLISHING TYPICAL RULES GOVERNING PARTITION LOCATIONS AND THEN DIMENSIONING ONLY THE EXCEPTION TO THESE RULES. TYPICAL DIMENSIONING CRITERIA ARE OUTLINED BELOW.

COLUMN IDENTIFICATION DETAILS WILL GOVERN ALL DIMENSIONS AND FEW DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS.

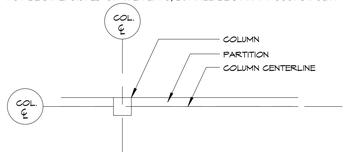
A. COLUMN GRIDS ARE DRAWN ACCORDINGLY:



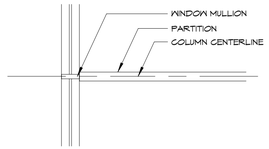
B. PARTITIONS CENTERED ON COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON THE PLANS, BUT DRAWN ACCORDINGLY:



C. PARTITIONS WITH THE FINISHED FACE FLUSH WITH THE COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON THE PLANS, BUT WILL BE DRAWN ACCORDINGLY:



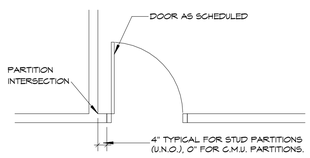
D. PARTITIONS CENTERED ON WINDOW MULLIONS WILL NOT BE DIMENSIONED ON PLANS, BUT WILL BE DRAWN ACCORDINGLY:



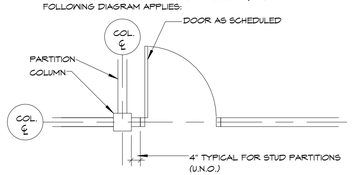
E. PARTITIONS WITH FINISHED FACE ON THE COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON THE PLANS, BUT WILL BE DRAWN ACCORDINGLY:

F. FOR OPENINGS IN PARTITIONS OR WALLS:

1. WHEN ONE OCCURS AT A COLUMN OR GRID LINE, NO DIMENSIONS WILL BE SHOWN ON THE PLANS, THE OPENING WIDTH WILL BE ESTABLISHED BY EITHER CRITERIA OR SCHEDULES.
2. WHEN NEITHER JAMB OCCURS AT A PARTITION INTERSECTION, AT A COLUMN OR GRID LINE; ONE JAMB WILL BE LOCATED DIMENSIONALLY BY THE DETAIL.
3. WHEN ONE JAMB IS LOCATED BY AN INTERSECTING PARTITION, THE FOLLOWING DIAGRAM APPLIES:



4. WHEN ONE JAMB IS LOCATED BY A COLUMN, THE FOLLOWING DIAGRAM APPLIES:

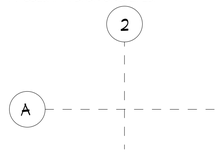


G. STUD PARTITIONS ARE DIMENSIONED FROM THE FACE OF ONE UNIT TO THE FACE OF ANOTHER UNIT. AT EXTERIOR WALLS DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF ANOTHER UNIT.

H. MASONRY PARTITIONS ARE DIMENSIONED FROM THE NOMINAL FACE OF C.M.U., BRICK OR STONE TO THE FACE OF ANOTHER UNIT.

GRAPHIC SYMBOLS/STANDARDS:

A. COLUMN AND/OR GRID LINES:



B. FLOOR PLAN MATCHLINE SYMBOL:

C. CENTERLINE SYMBOL:

D. BAR GRAPH SYMBOL:

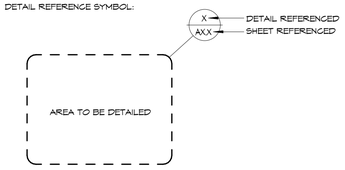
E. NORTH ARROW:

F. SPECIFICATION SECTION REFERENCE SYMBOL:

G. SPOT ELEVATION SYMBOL:

H. ELEVATION REFERENCE SYMBOL:

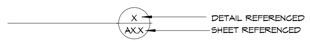
I. DETAIL REFERENCE SYMBOL:



J. INTERIOR ELEVATION REFERENCE SYMBOL:

K. BUILDING SECTION REFERENCE SYMBOL:

L. DETAIL REFERENCE SYMBOL:



M. DETAIL REFERENCE SYMBOL:

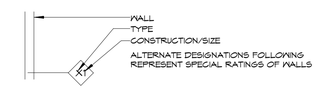
N. WINDOW REFERENCE SYMBOL:

O. ROOM NUMBER/NAME SYMBOL:

1. THE FIRST NUMERAL OF A ROOM NUMBER ACTS AS A FLOOR LEVEL INDICATOR, STARTING WITH '0' AT THE BASEMENT LEVEL AND WORKING NUMERICALLY UP.

P. ACCESSORY REFERENCE SYMBOL:

Q. WALL PARTITION TYPE SYMBOL: (SEE WALL TYPES)

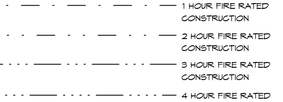


R. EXISTING ASSEMBLY

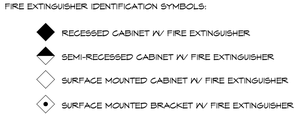
S. REVISIONS SYMBOLS:

T. DETAIL NOTE SYMBOL:

U. RATED WALL CONSTRUCTION SYMBOLS:

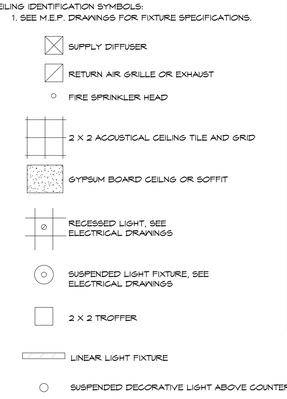


V. FIRE EXTINGUISHER IDENTIFICATION SYMBOLS:



W. CEILING IDENTIFICATION SYMBOLS:

1. SEE M.E.P. DRAWINGS FOR FIXTURE SPECIFICATIONS.



X. CEILING REFERENCE SYMBOLS:

Y. PLAN SYMBOLS:

GENERAL NOTES:

1. NONE TO ALL OF THE LISTED CRITERIA, SYMBOLS, ETC. MAY OR MAY NOT BE USED IN THIS SET OF CONSTRUCTION DOCUMENTS.

2. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING WEATHER-TIGHT CONSTRUCTION, DETAILS AND OMISSIONS TO THE DRAWINGS NOTWITHSTANDING.

3. ALL FINISH COLORS, TEXTURE, AND PATTERNS TO BE SELECTED BY THE ARCHITECT AND APPROVED PRIOR TO INSTALLATION.

4. ANY PIPE OR CONDUIT PENETRATION THRU EXTERIOR CONSTRUCTION SHALL BE SEALED AT BOTH SIDES FOR A WATER-TIGHT CONDITION, OR FOR FIRE STOP ASSEMBLIES THROUGH RATED WALLS.

5. ALL FLOORS WITH DRAINS SHALL HAVE A MINIMUM OF 1/8" PER FOOT SLOPE TO DRAIN, U.N.O..

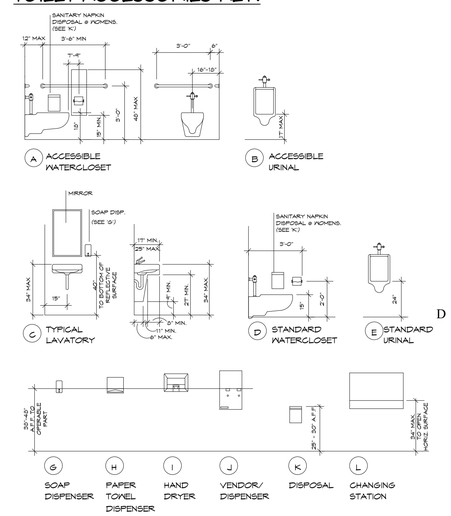
6. CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL EXISTING CONDITIONS AND NEW DIMENSIONS OF THE PROJECT AND CONFIRM SUCH TO BE APPROPRIATE AND COMPATIBLE WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY FOR CLARIFICATION OR ABOUT ANY CONDITION REQUIRING MODIFICATION OR CHANGE BEFORE PROCEEDING WITH THE WORK.

7. ALL EXPOSED C.M.U. CORNERS TO BE BULL NOSE. COORDINATE EXCEPTIONS WITH ARCHITECT.

NOTES- FULL LIST	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRNG.
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRNG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRNG.
3.9	CONCRETE PAVEMENT- SIDEWALK
3.9	CAST-IN-PLACE CONCRETE
3.10	CONCRETE REVEAL- 1"
3.11	CONCRETE MOW STRIP-10" WIDE
3.12	CONCRETE COLUMN
3.13	CONCRETE RETAINING WALL
4.1	8" C.M.U.
4.2	8" C.M.U. BOND BEAM
4.3	12" C.M.U.
4.4	12" C.M.U. BOND BEAM
4.5	MASONRY TIE
4.6	SOLID GROUT
4.7	HORIZONTAL REINFORCING- SEE STRUCTURAL DRNG
4.8	THRU-WALL FLASHING WITH DRIP EDGE
4.9	MORTAR
4.10	4" BURNISHED BLOCK VENEER
4.11	MASONRY CONTROL JOINT
4.12	CAVITY DRAINAGE MATERIAL
5.4	STEEL REINFORGING
5.6	STEEL ANGLE- SEE STRUCTURAL DRNG.
5.7	STEEL TUBE- SEE STRUCTURAL
5.13	STEEL MISC. CHANNEL- SEE STRUCTURAL DRNG.
5.14	STEEL COLUMN- SEE STRUCTURAL DRNG.
5.15	STEEL LINTEL- SEE STRUCTURAL
5.16	STEEL PLATE- SEE STRUCTURAL
5.20	ALUMINUM FENCE
6.1	1/2" PLYWOOD SHEATHING- VERIFY WITH STRUCTURAL
6.3	5/4" PLYWOOD SHEATHING- VERIFY WITH STRUCTURAL
6.6	CUSTOM CASEWORK
6.8	WOOD BLOCKING
6.10	3/4" CEMENTITIOUS FACIA- PAINTED
6.11	WOOD TRUSSES- SEE STRUCTURAL
6.12	PSL ROOF BEAM- SEE STRUCTURAL
6.13	5/4" WOOD TRIM- PAINTED
7.1	JOINT SEALANT
7.2	BACKER ROD AND SEALANT
7.5	WATERPROOF MEMBRANE
7.6	2" RIGID WALL INSULATION
7.7	RIDGE VENT
7.8	METAL SOFFIT DECK- VENTED
7.9	SHEET METAL FLASHING
7.11	METAL SOFFIT DECK
7.12	TERMINATION BAR
7.13	VAPOR BARRIER
7.14	SPANDREL INSULATION
7.15	CELLULOSE INSULATION
7.16	ACOUSTIC BATT INSULATION
7.18	ACOUSTIC MAT MEMBRANE
7.20	ACOUSTIC SEALANT
7.21	5" X 5" DOWNSPOUT
7.22	E.I.F.S. VENEER
7.23	E.I.F.S. REVEAL- SEE DETAIL
7.24	2" RIGID FOUNDATION INSULATION
7.25	COMPOSITION ASPHALT SHINGLES
7.26	5" GUTTER
7.27	4" X 4" DOWNSPOUT- TIE INTO DRAINS- SEE CIVIL
7.29	EXPANSION JOINT- PAVEMENT
7.30	EXPANSION JOINT- WALL
7.31	WALL DRAINAGE BOARD
8.1	ALUMINUM STOREFRONT
8.2	ALUMINUM STOREFRONT DOOR
8.3	HOLLOW METAL DOOR
8.4	HOLLOW METAL FRAME
8.5	ALUMINUM BRAKE METAL
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.8	GLASS TYPE 4- CLEAR INSUL. TEMPERED SPANDREL GLASS
8.10	GLASS TYPE 8- CLEAR
8.14	ALUMINUM STOREFRONT DEFLECTION RECEPTOR
8.15	THRESHOLD
8.16	OVERHEAD COILING DOOR- MOTORIZED
8.17	OVERHEAD ALUMINUM SLAT COUNTER DOOR
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.2	5/8" TYPE 'X' GYP. BD.
9.3	5/8" TYPE 'X' GYP. BD. MOISTURE RESISTANT
9.4	1 5/8" METAL STUDS
9.5	3-5/8" METAL STUDS
9.6	6" METAL STUDS
9.7	TYPE 1 ACOUSTICAL CEILING TILE
9.8	TYPE 1 SUSPENDED CEILING SYSTEM
9.11	INTERIOR EPOXY PAINT
9.14	RESILIENT BASE
9.15	CARPET TILE
9.16	EPOXY RESIN FLOORING

NOTES- FULL LIST	
9.17	EPOXY RESIN BASE 5"
9.18	SEALED CONCRETE
9.20	POWDER COATED STEEL CORNER GUARD- 2" X 2" ANGEL
10.1	36" GRAB BAR
10.2	42" GRAB BAR
10.3	PAPER TOWEL DISPENSER- OWNER PROVIDED- N.I.C.
10.4	SOAP DISPENSER- OWNER PROVIDED- N.I.C.
10.10	FIRE EXTINGUISHER CABINET
10.13	MARKER BOARD
10.14	MIRROR- 18" X 36"
10.15	TOILET PARTITION
10.16	BABY CHANGING STATION
10.19	WALL SHELF
10.19	EXTERIOR SIGNAGE
10.20	48" GRAB BAR
10.21	SHOWER CURTAIN, ROD, HOOKS
10.22	ATHLETIC LOCKERS
10.23	TWO TIER LOCKERS
10.24	LOCKER ROOM BENCH
10.25	FULL LENGTH MIRROR- 24" X 60"
10.26	PROJECTIONS SCREEN- 16'-8"- 0" X 4'-5"
12.1	TRAINING TABLE- PROVIDED BY OWNER
12.2	STACKABLE CHAIRS- PROVIDED BY OWNER
22.1	DRINKING FOUNTAIN- SEE PLUMBING DRNG.
22.2	TOILET- SEE PLUMBING DRNG.
22.3	LAVATORY- SEE PLUMBING DRNG.
22.4	SERVICE SINK- SEE PLUMBING DRNG.
22.5	URINAL- SEE PLUMBING DRNG.
22.7	FLOOR DRAIN- SEE PLUMBING DRNG.
22.8	SHOWER- SEE PLUMBING DRNG.- RECESS SLAB FOR DRAIN.
23.1	DUCTWORK-SEE MECH DRNG.
23.2	MECHANICAL EQUIPMENT-SEE MECH. DRNG.
23.5	SUPPLY AIR DEVICE-SEE MECH DRNG.
23.4	RETURN AIR DEVICE-SEE MECH DRNG.
26.1	LIGHT FIXTURE-SEE ELEC. DRNG.
31.1	GRAVEL FILL
31.2	4" DRAIN TILE-DRAIN TO DAYLIGHT

TOILET ACCESSORIES KEY:



BBN

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

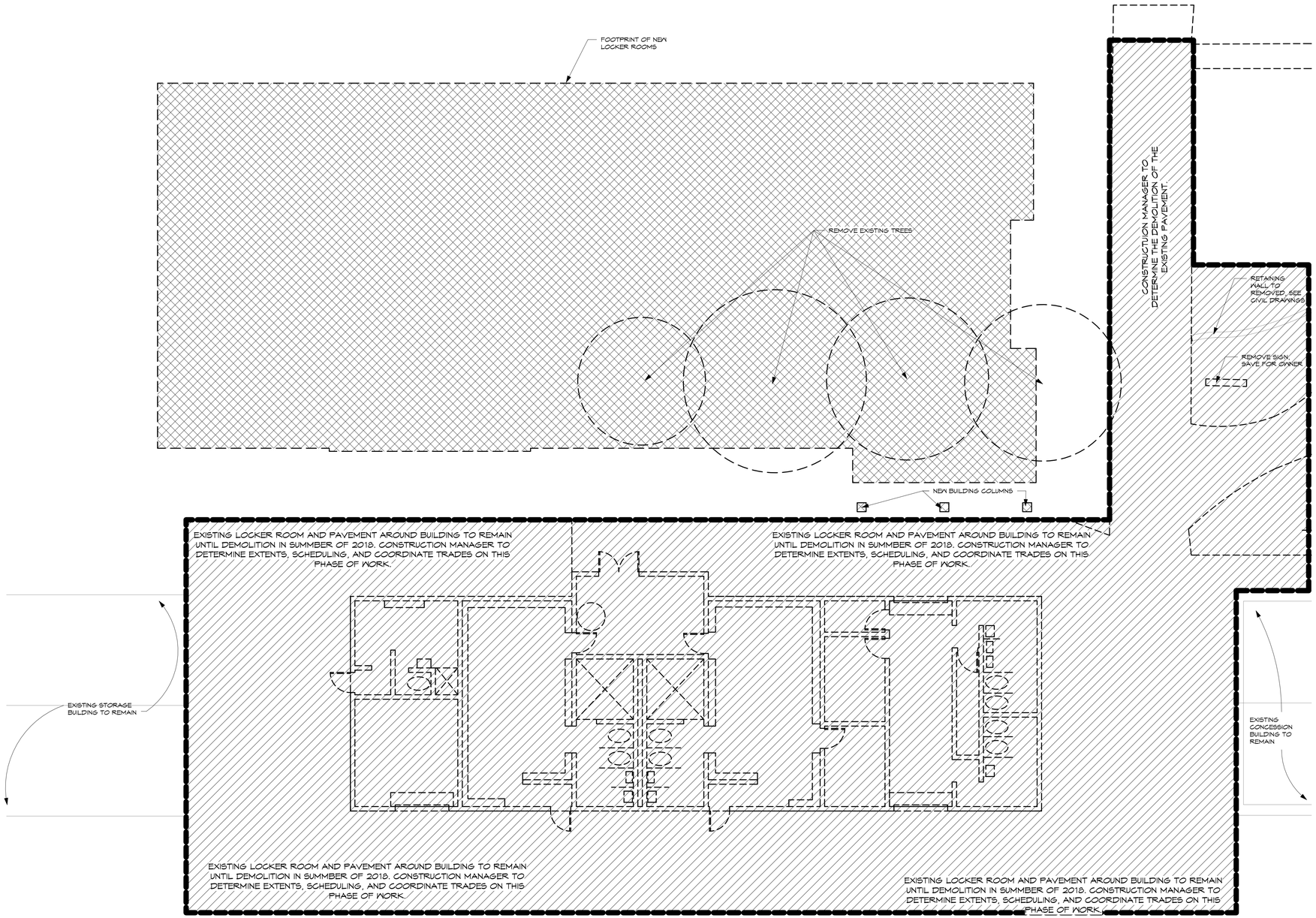
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
GENERAL INFORMATION

Sheet: **A001**

Of:



EXISTING LOCKER ROOM

1/8" = 1'-0"

NOTE: SEE CIVIL DRAWINGS FOR SITE RELATED DEMOLITION ITEMS.

BBN

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

REV	DESCRIPTION	DATE

PATRICK A. SEABAUGH
ENGINEER
3975
7-7-17
KANSAS
PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

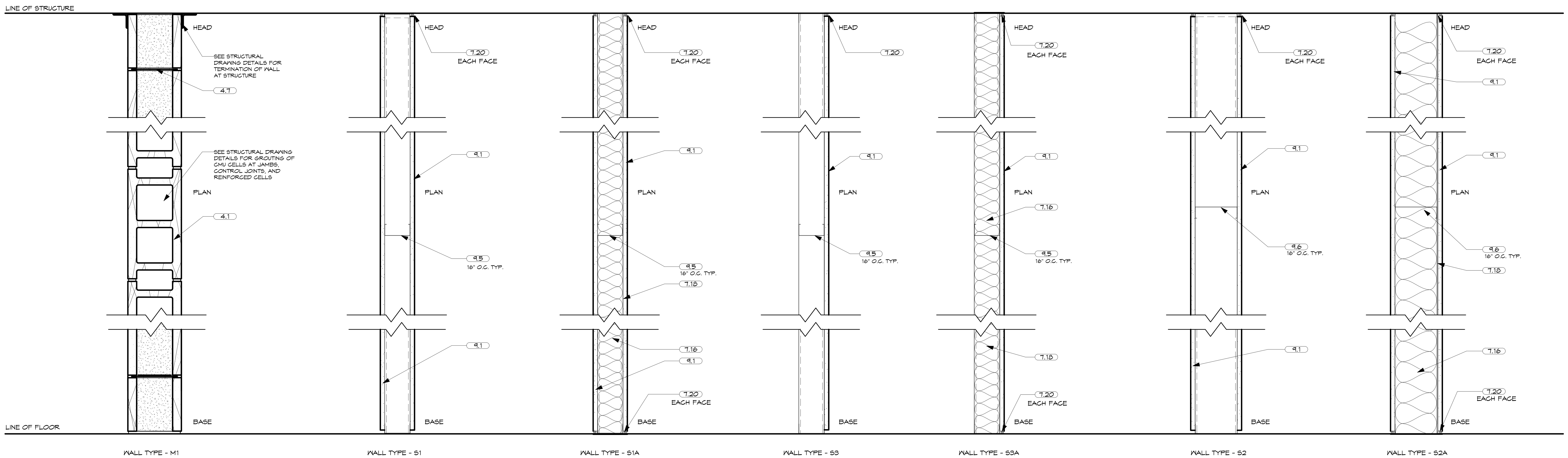
DEMOLITION PLAN

Sheet:

A002

Of:

NOTES	
4.1	8" C.M.U.
4.7	HORIZONTAL REINFORCING- SEE STRUCTURAL DRWG
7.16	ACOUSTIC BATT INSULATION
7.18	ACOUSTIC MAT MEMBRANE
7.20	ACOUSTIC SEALANT
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.5	3-5/8" METAL STUDS
9.6	6" METAL STUDS



WALL TYPES
1 1/2" = 1'-0"

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
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REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

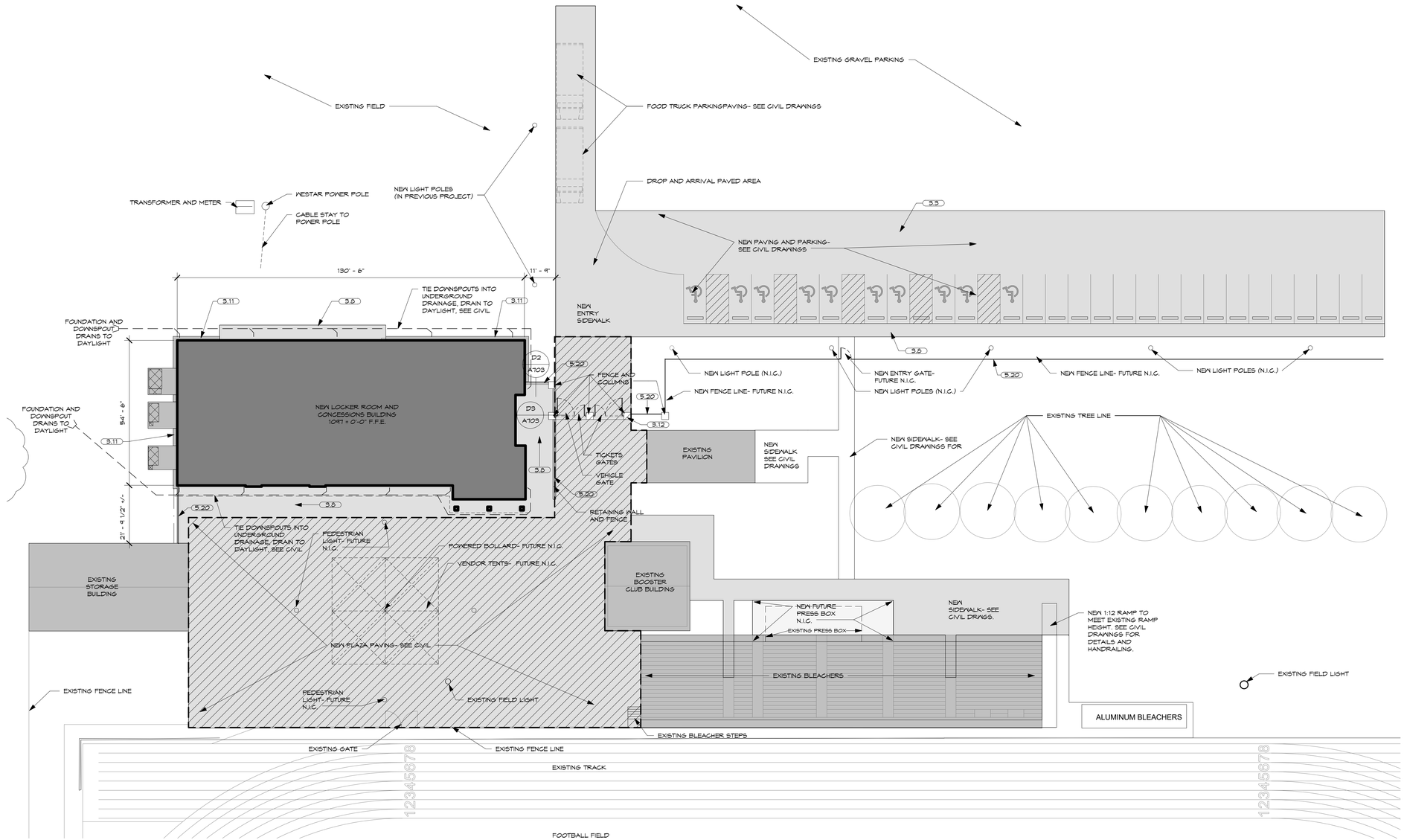
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
WALL TYPES

Sheet:
A003

Of:

NOTES	
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
3.8	CONCRETE PAVEMENT- SIDEWALK
3.11	CONCRETE MOW STRIP-18" WIDE
3.12	CONCRETE COLUMN
5.20	ALUMIMUM FENCE



NORTH

Site Plan- Plans
1" = 20'-0"

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

REV	DESCRIPTION	DATE

PATRICK A. SEAL
LICENSED
3075
7-7-2017
KANSAS
PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

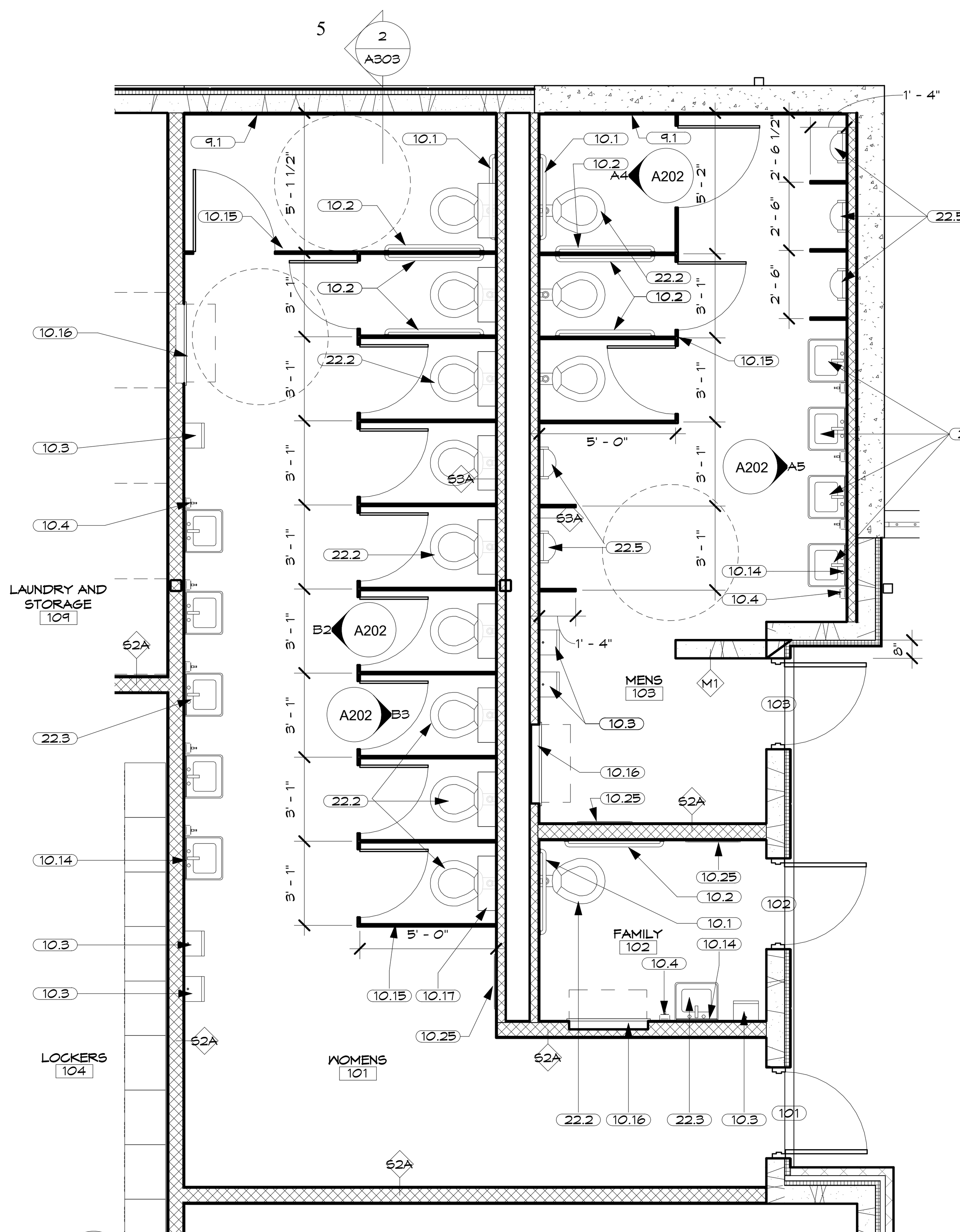
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

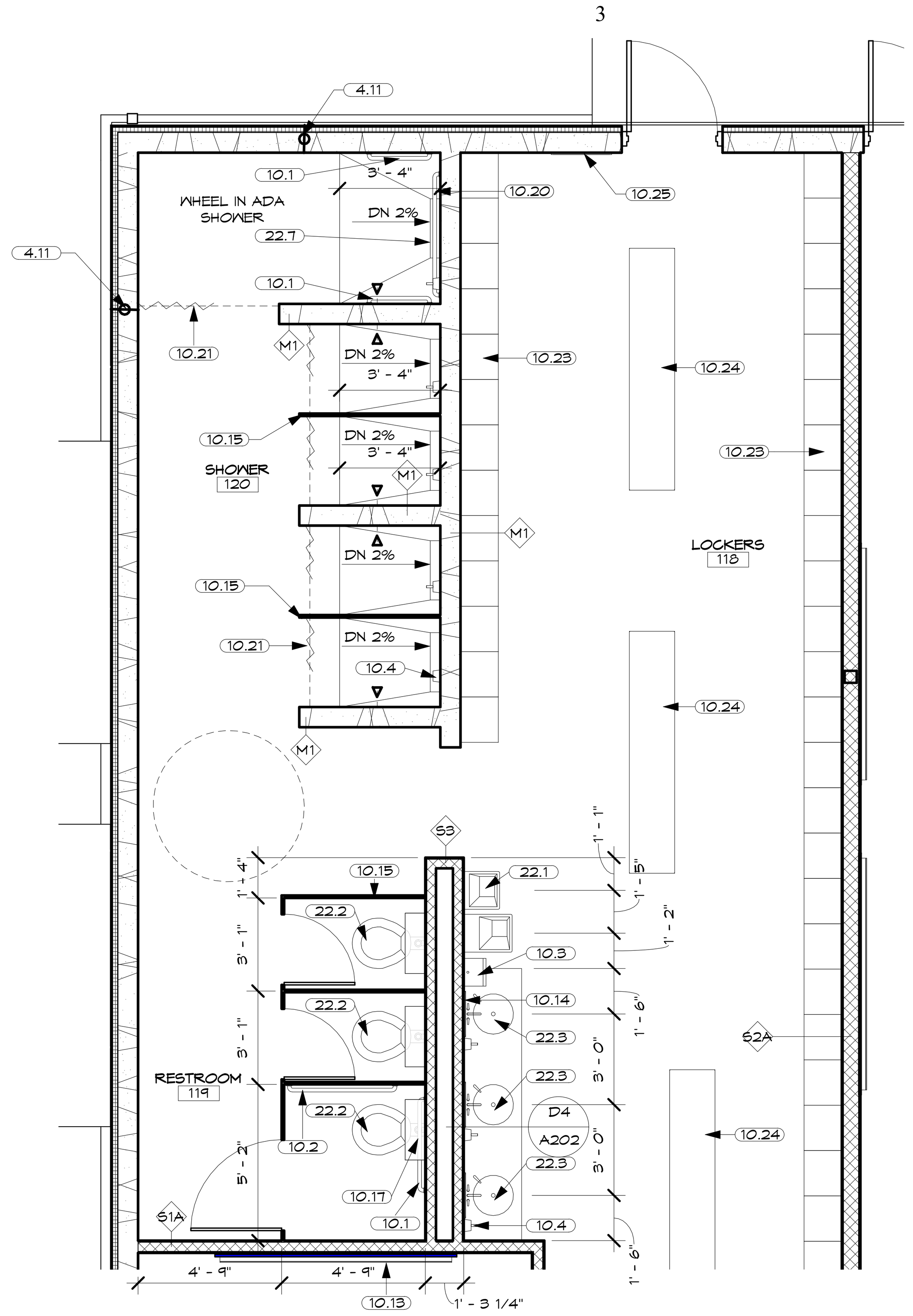
Sheet Title:
SITE PLAN

Sheet:
A101

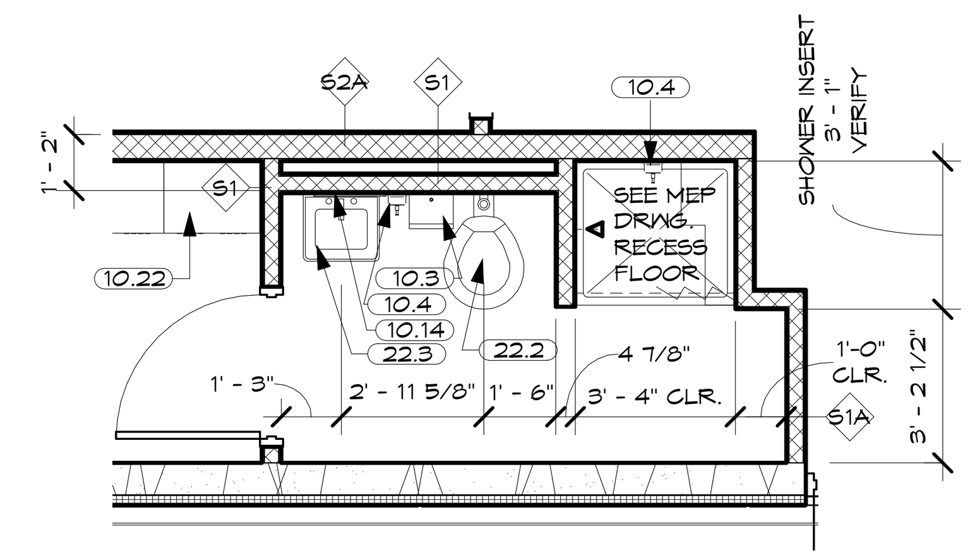
Of:



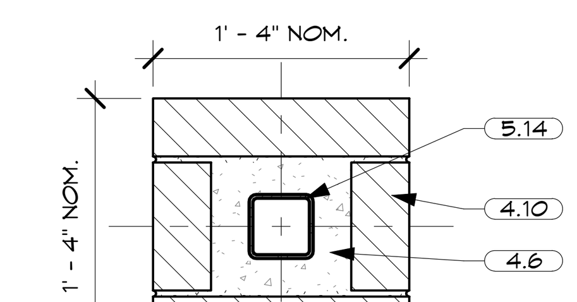
B5 A102 ENLARGED RESTROOM PLAN
1/4" = 1'-0"



B3 A102 ENLARGED LOCKERS 118 AND RESTROOM PLAN
1/4" = 1'-0"

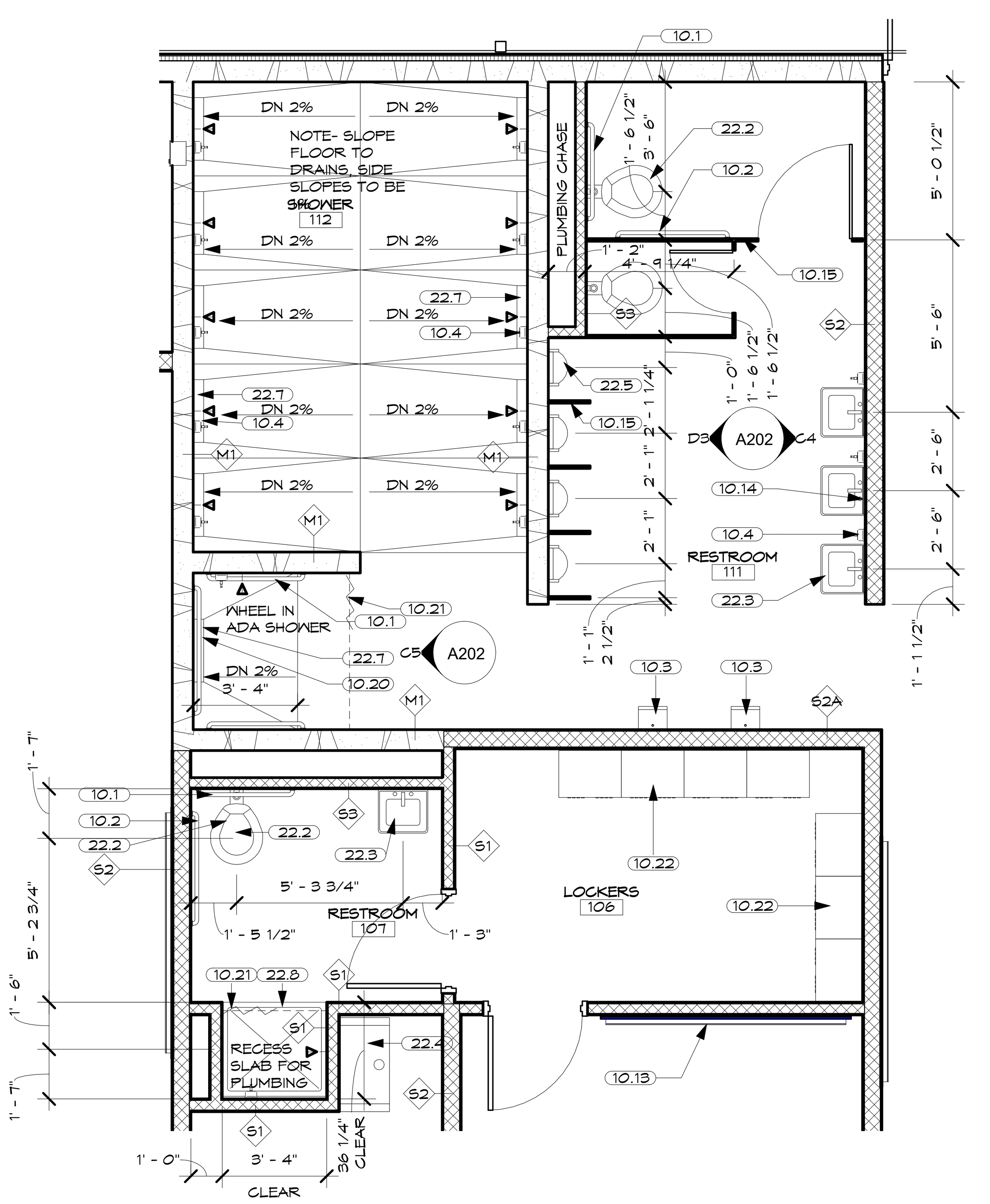


A2 A102 ENLARGED OFFICIALS RESTROOM
1/4" = 1'-0"

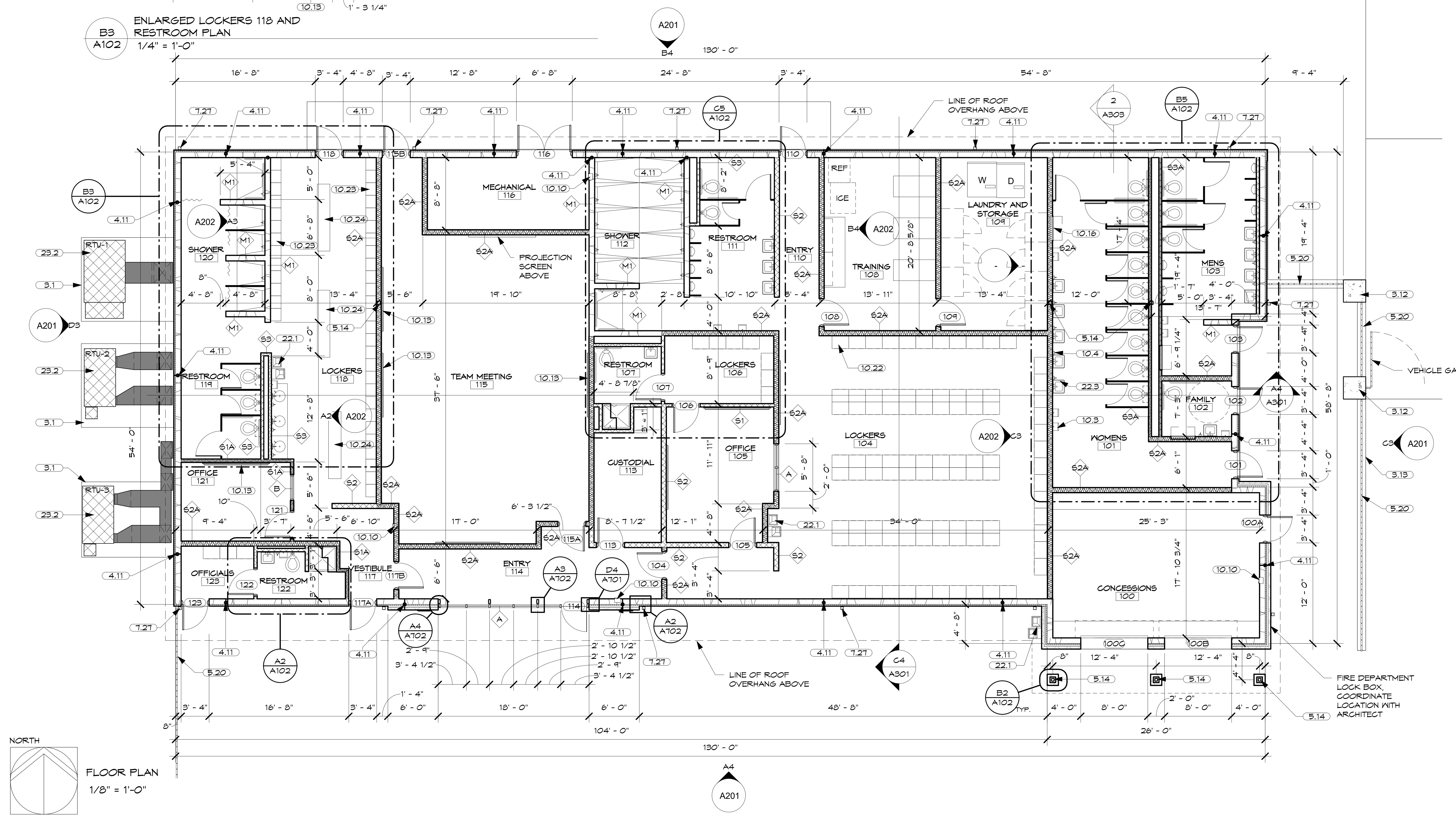


B2 A102 STEEL TO MASON COLUMN DETAIL- PLAN
1" = 1'-0"

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.12	CONCRETE COLUMN
3.13	CONCRETE RETAINING WALL
4.6	SOLID GROUT
4.10	4" BURNISHED BLOCK VENEER
4.11	MASONRY CONTROL JOINT
5.14	STEEL COLUMN- SEE STRUCTURAL DRWG.
5.20	ALUMIMUM FENCE
7.27	4" X 4" DOWNSPOUT- TIE INTO DRAINS- SEE CIVIL
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
10.1	36" GRAB BAR
10.2	42" GRAB BAR
10.3	PAPER TOWEL DISPENSER- OWNER PROVIDED- N.I.C.
10.4	SOAP DISPENSER- OWNER PROVIDED- N.I.C.
10.10	FIRE EXTINGUISHER CABINET
10.13	MARKER BOARD
10.14	MIRROR- 18" X 36"
10.15	TOILET PARTITION
10.16	BABY CHANGING STATION
10.17	WALL SHELF
10.20	48" GRAB BAR
10.21	SHOWER CURTAIN, ROD, HOOKS
10.22	ATHLETIC LOCKERS
10.23	TWO TIER LOCKERS
10.24	LOCKER ROOM BENCH
10.25	FULL LENGTH MIRROR-24" X 60"
22.1	DRINKING FOUNTAIN- SEE PLUMBING DRWG.
22.2	TOILET- SEE PLUMBING DRWG.
22.3	LAVATORY- SEE PLUMBING DRWG.
22.4	SERVICE SINK- SEE PLUMBING DRWG.
22.5	URINAL- SEE PLUMBING DRWG.
22.7	FLOOR DRAIN- SEE PLUMBING DRWG.
22.8	SHOWER- SEE PLUMBING DRWG.- RECESS SLAB FOR DRAIN.
23.2	MECHANICAL EQUIPMENT-SEE MECH. DRWG.



C5 A102 ENLARGED PLAN- ROOM 106,107,111, AND 112
1/4" = 1'-0"



FLOOR PLAN
1/8" = 1'-0"

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REV	DESCRIPTION	DATE

PATRICK A. SCHWANK · LICENSED ARCHITECT · KANSAS · 3975 · PROFESSIONAL ARCHITECT

Project Number: 16036

Date: 7/7/17

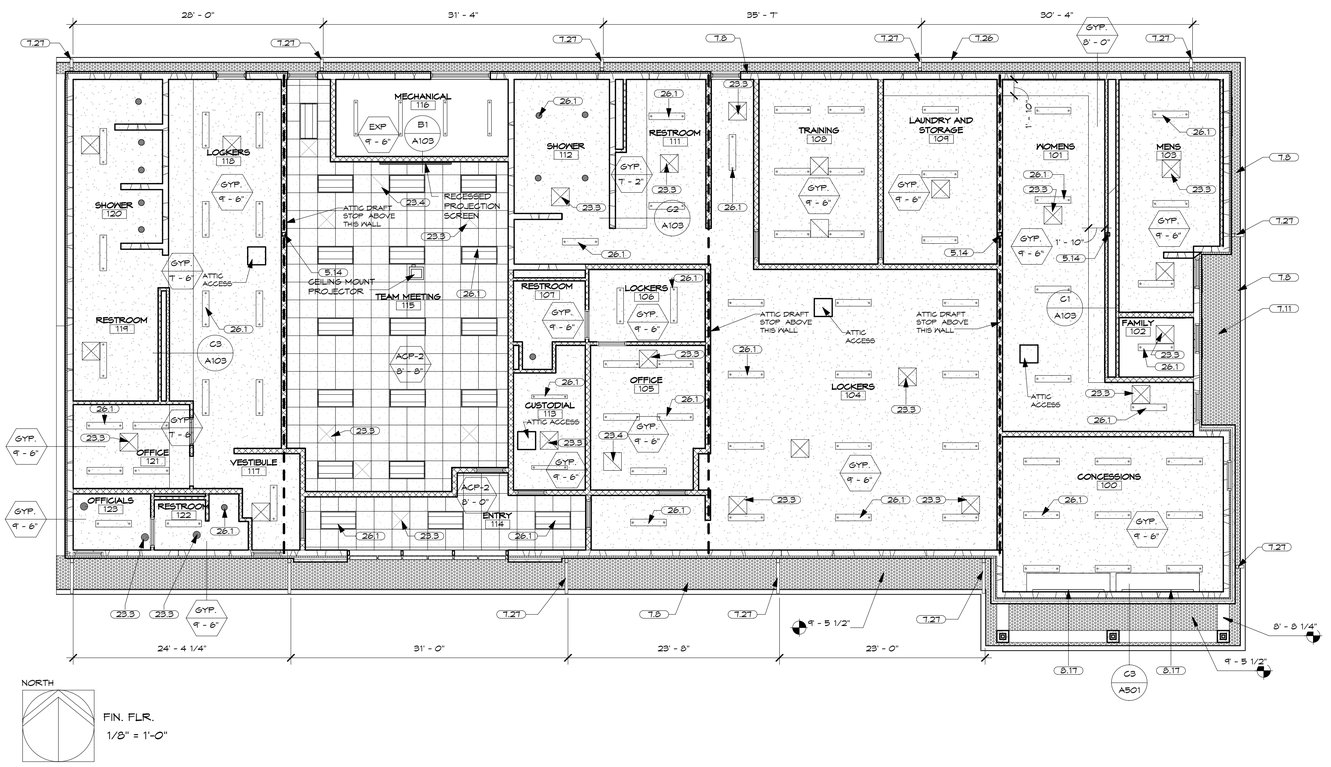
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

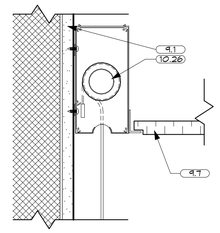
Sheet Title:
FLOOR PLAN

Sheet: **A102**

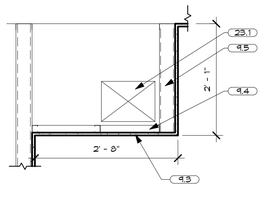
Of:



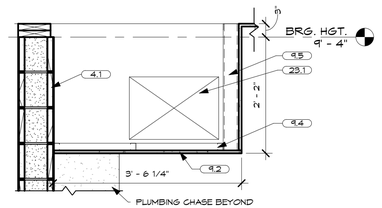
NOTES	
4.1	8" C.M.U.
4.2	8" C.M.U. BOND BEAM
5.14	STEEL COLUMN- SEE STRUCTURAL DRWG.
6.8	WOOD BLOCKING
7.1	JOINT SEALANT
7.8	METAL SOFFIT DECK- VENTED
7.11	METAL SOFFIT DECK
7.13	VAPOR BARRIER
7.15	CELLULOSE INSULATION
7.16	ACCUSTIC BATT INSULATION
7.26	5" GUTTER
7.27	4" X 4" DOWNSPOUT- TIE INTO DRAINS- SEE CIVIL
8.17	OVERHEAD ALUMINUM SLAT COUNTER DOOR
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.2	5/8" TYPE 'X' GYP. BD.
9.3	5/8" TYPE 'X' GYP. BD. MOISTURE RESISTANT
9.4	1 5/8" METAL STUDS
9.5	3-5/8" METAL STUDS
9.7	TYPE 1 ACOUSTICAL CEILING TILE
9.9	TYPE 1 SUSPENDED CEILING SYSTEM
10.26	PROJECTIONS SCREEN- 16:9- 8' X 4.5'
23.1	DUCTWORK-SEE MECH DRWG.
23.3	SUPPLY AIR DEVICE-SEE MECH DRWG.
23.4	RETURN AIR DEVICE-SEE MECH DRWG.
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.



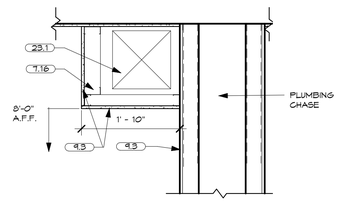
B1 A103 DETAIL @ PROJECTION SCREEN
3" = 1'-0"



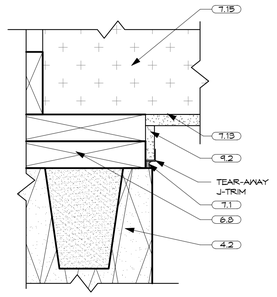
C3 A103 SOFFIT DETAIL @
3/4" = 1'-0"



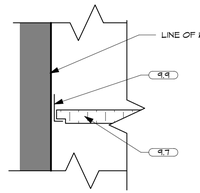
C2 A103 RESTROOM SOFFIT DETAL
3/4" = 1'-0"



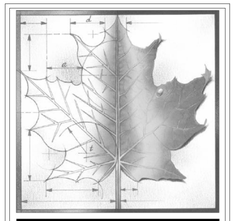
C1 A103 DETAIL @ BATHROOM SOFFIT
3/4" = 1'-0"



D2 A103 DETAIL @ TYPICAL GYP. TEARAWAY
3" = 1'-0"



D1 A103 ACT TO WALL DETAIL
3" = 1'-0"



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REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

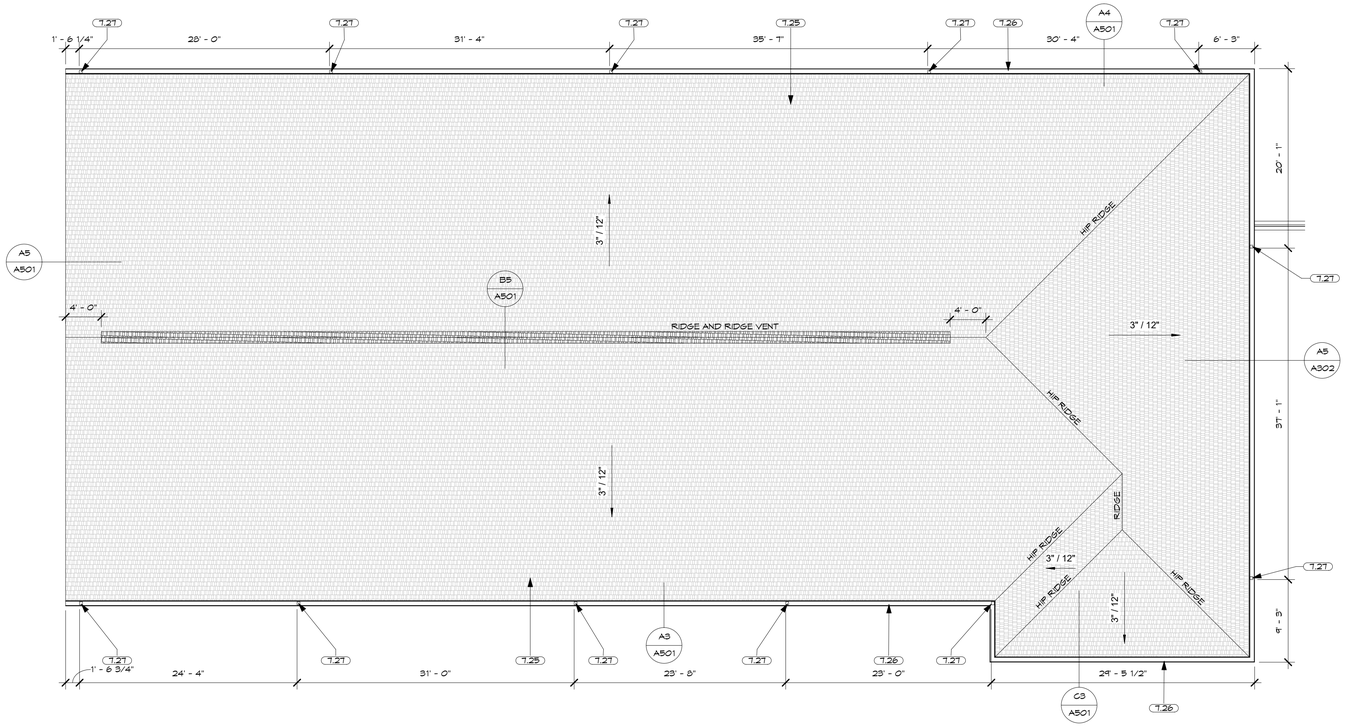
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
REFLECTED CEILING PLAN

Sheet: **A103**

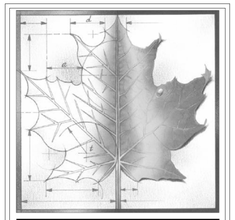
Of:

NOTES	
T.25	COMPOSITION ASPHALT SHINGLES
T.26	5" GUTTER
T.27	4" X 4" DOWNSPOUT- TIE INTO DRAINS- SEE CIVIL



NORTH

Site Plan - Roof
1/8" = 1'-0"



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REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

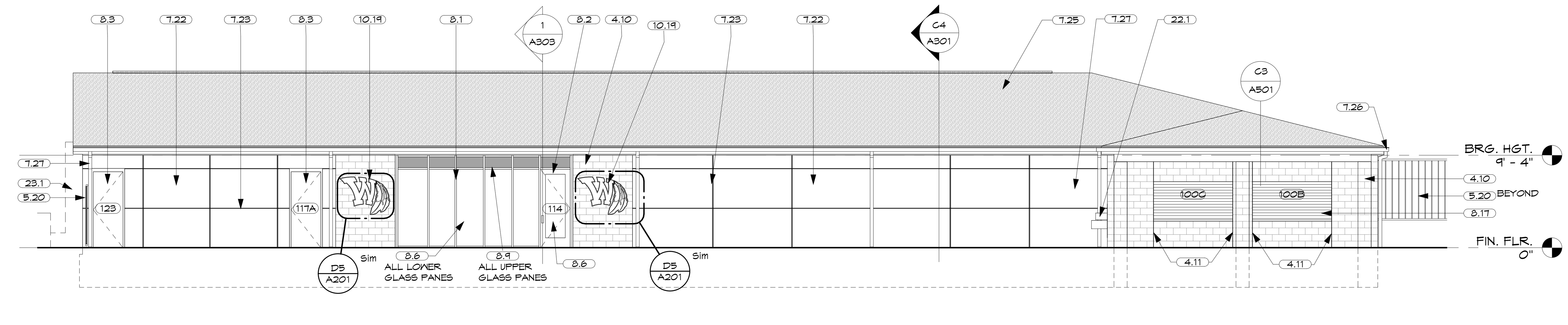
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

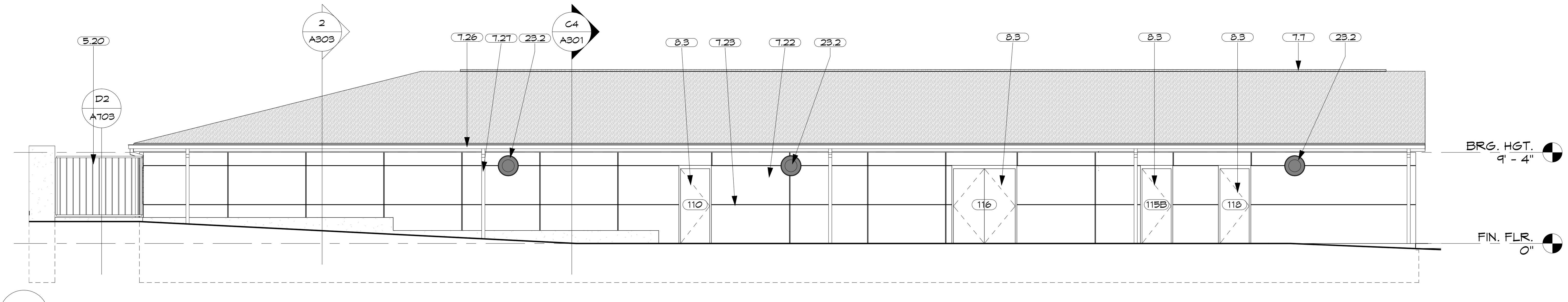
Sheet Title:
ROOF PLAN

Sheet:
A104

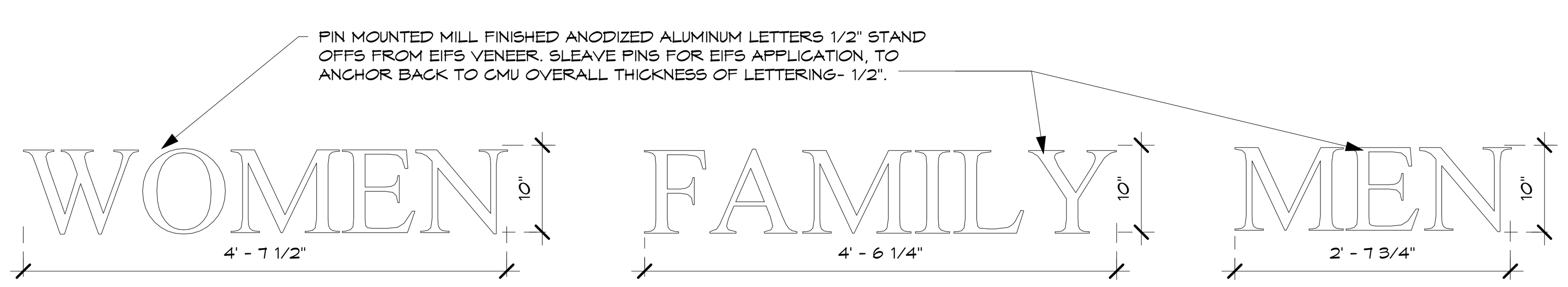
Of:



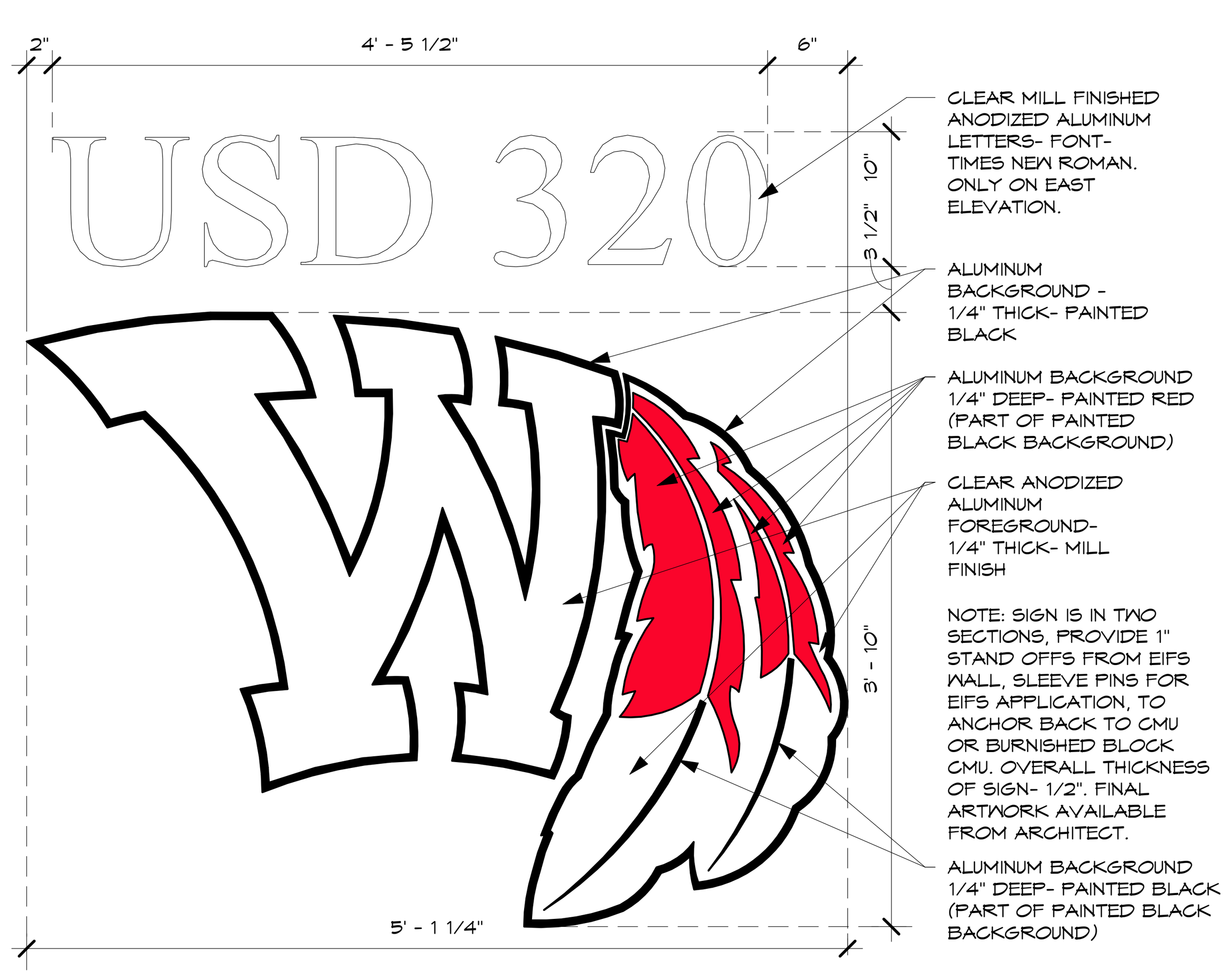
A4 A201 SOUTH
1/8" = 1'-0"



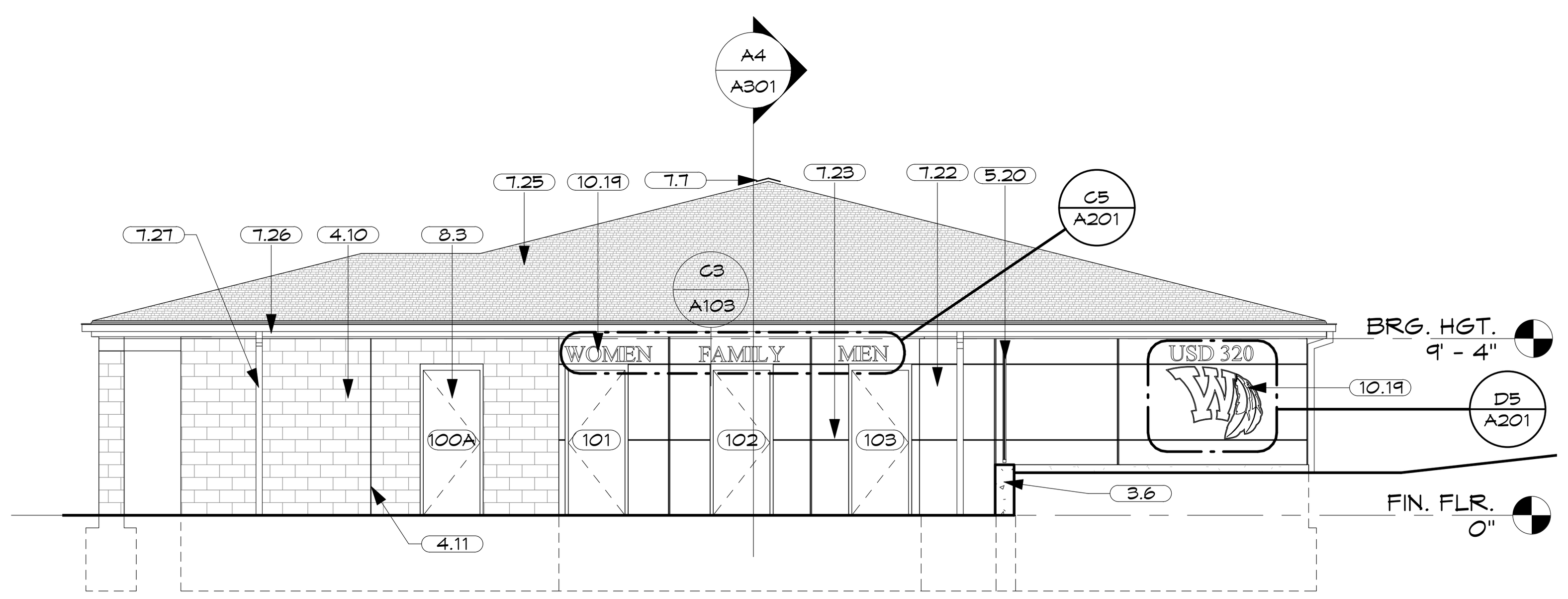
B4 A201 NORTH
1/8" = 1'-0"



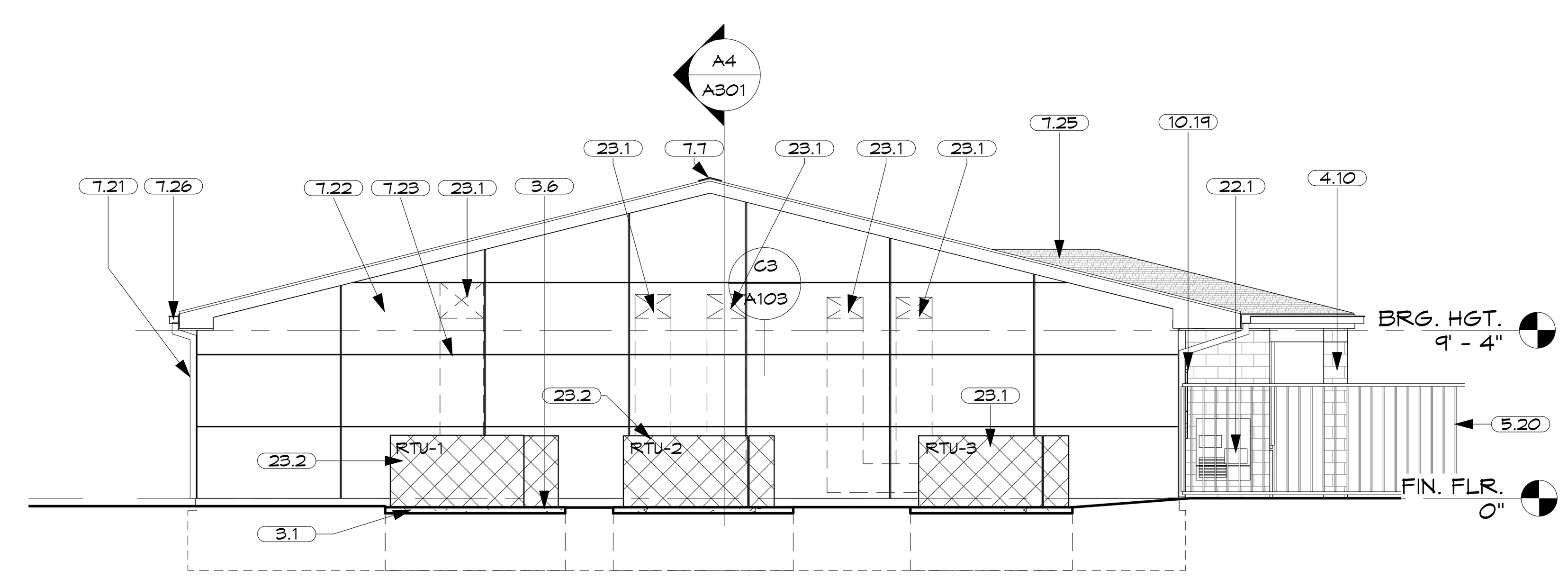
C5 A201 SIGNAGE DETAILS
3/4" = 1'-0"



D5 A201 SIGNAGE DETAIL
1" = 1'-0"

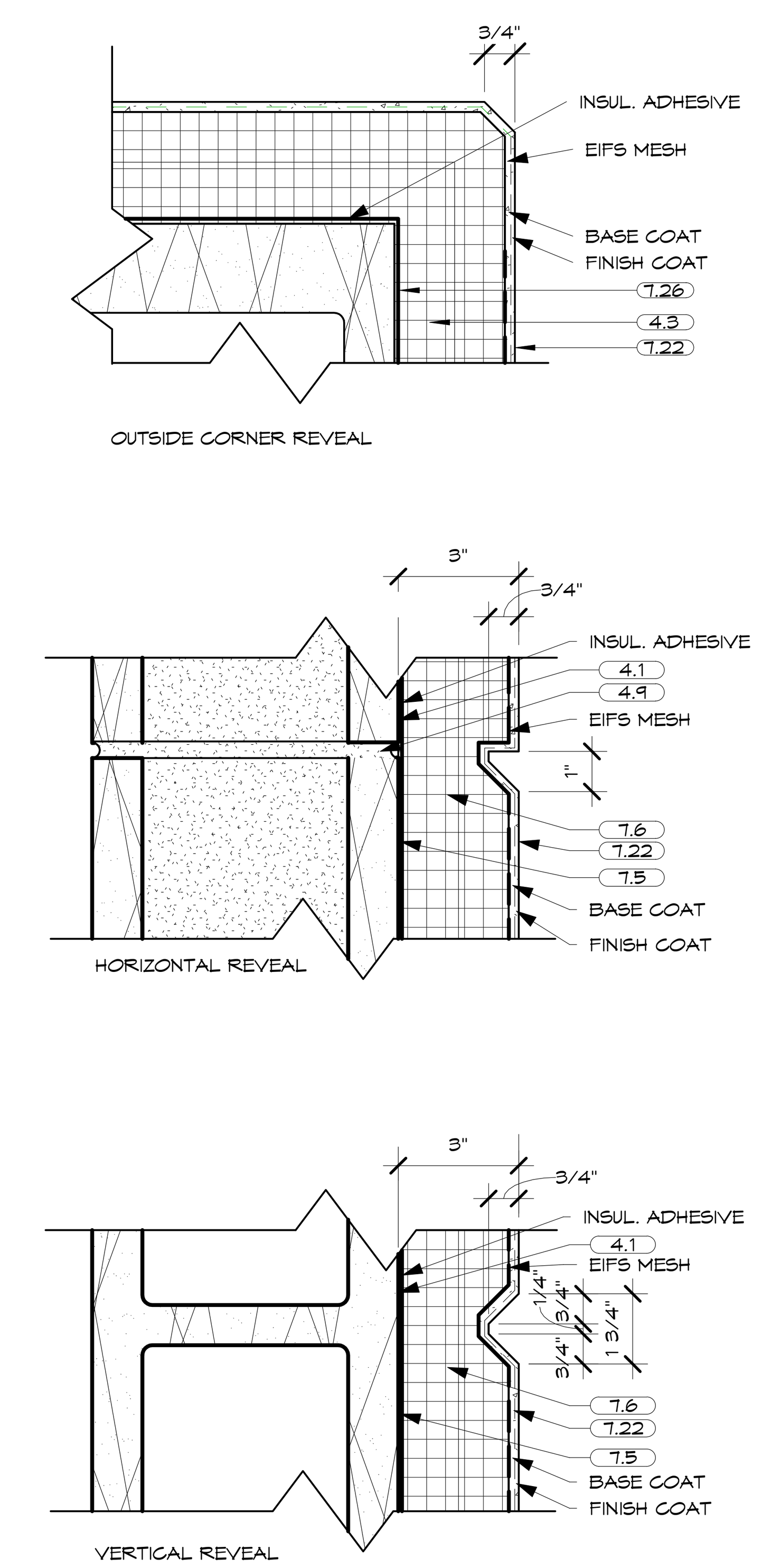


C3 A201 EAST
1/8" = 1'-0"



D3 A201 WEST
1/8" = 1'-0"

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
4.1	8" C.M.U.
4.3	12" C.M.U.
4.9	MORTAR
4.10	4" BURNISHED BLOCK VENEER
4.11	MASONRY CONTROL JOINT
5.20	ALUMIMUM FENCE
7.5	WATERPROOF MEMBRANE
7.6	2" RIGID WALL INSULATION
7.7	RIDGE VENT
7.21	5" X 5" DOWNSPOUT
7.22	E.I.F.S. VENEER
7.23	E.I.F.S. REVEAL- SEE DETAIL
7.25	COMPOSITION ASPHALT SHINGLES
7.26	5" GUTTER
7.27	4" X 4" DOWNSPOUT- TIE INTO DRAINS- SEE CIVIL
8.1	ALUMINUM STOREFRONT
8.2	ALUMINUM STOREFRONT DOOR
8.3	HOLLOW METAL DOOR
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.9	GLASS TYPE 4- CLEAR INSUL. TEMPERED SPANDREL GLASS
8.17	OVERHEAD ALUMINUM SLAT COUNTER DOOR
10.19	EXTERIOR SIGNAGE
22.1	DRINKING FOUNTAIN- SEE PLUMBING DRWG.
23.1	DUCTWORK-SEE MECH DRWG.
23.2	MECHANICAL EQUIPMENT-SEE MECH. DRWG.



D1 A201 EIFS REVEAL DETAILS
3" = 1'-0"

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REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name: USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address: 4290 COLUMBIAN ROAD WAMEGO, KS

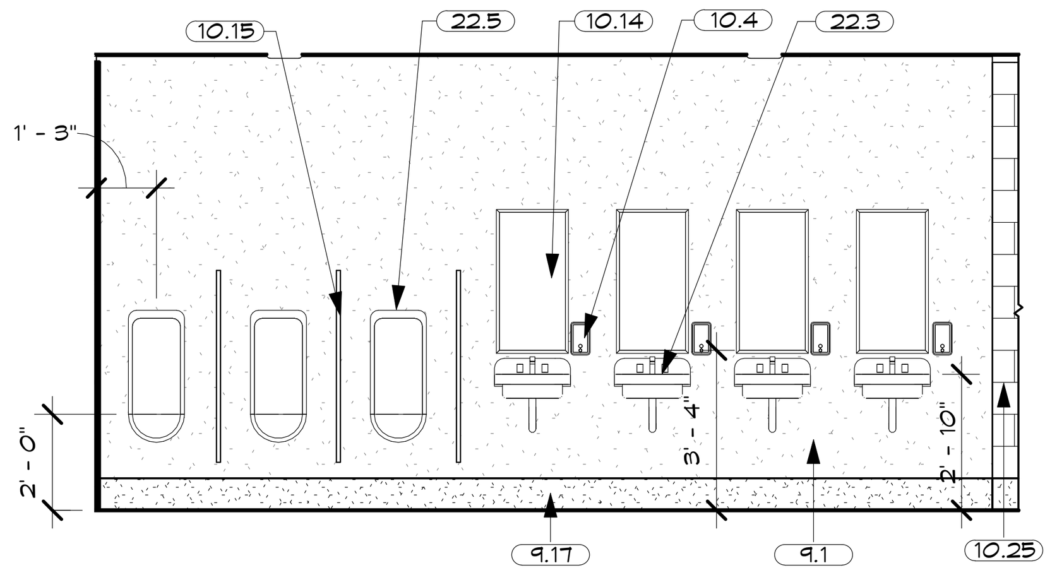
Sheet Title: EXTERIOR ELEVATIONS

Sheet: A201

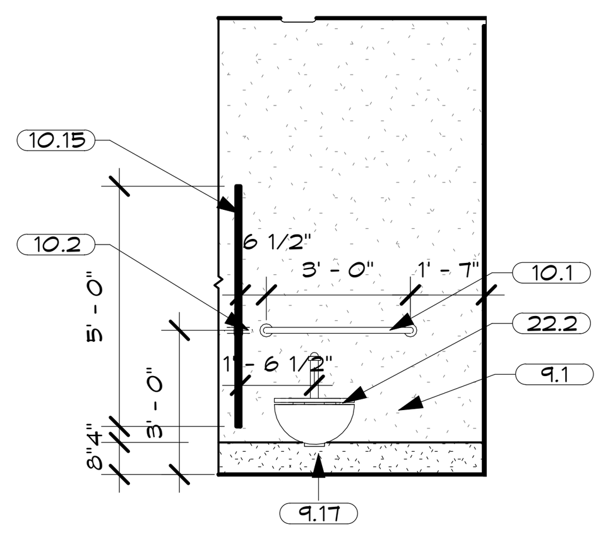
Of:

5 4 3 2 1

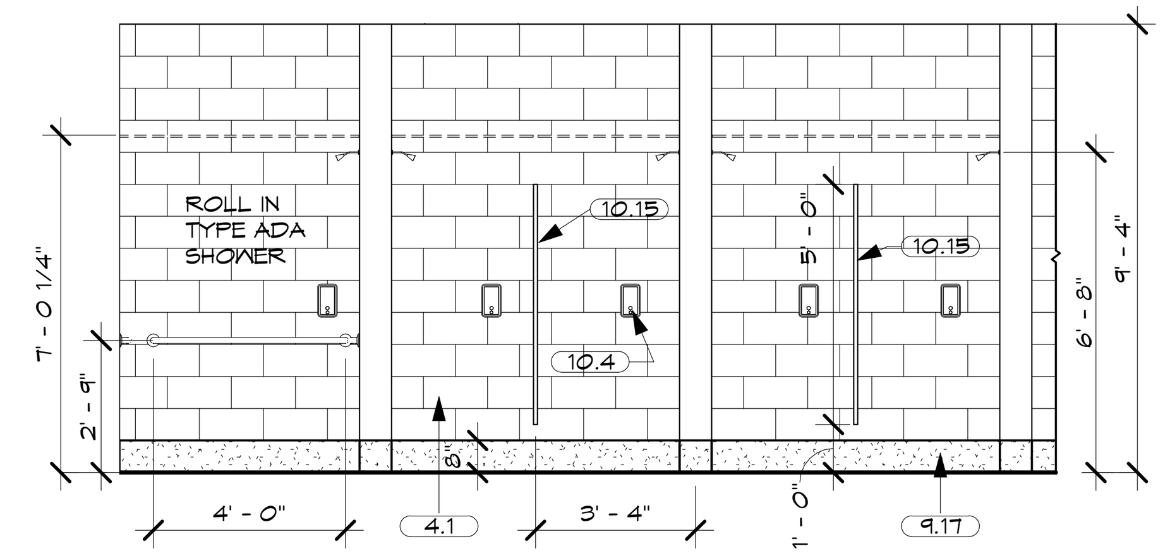
NOTES	
4.1	8" C.M.U.
6.6	CUSTOM CASEWORK
8.3	HOLLOW METAL DOOR
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.2	5/8" TYPE 'X' GYP. BD.
9.3	5/8" TYPE 'X' GYP. BD. MOISTURE RESISTANT
9.11	INTERIOR EPOXY PAINT
9.14	RESILIENT BASE
9.17	EPOXY RESIN BASE 8"
10.1	36" GRAB BAR
10.2	42" GRAB BAR
10.3	PAPER TOWEL DISPENSER- OWNER PROVIDED- N.I.C.
10.4	SOAP DISPENSER- OWNER PROVIDED- N.I.C.
10.14	MIRROR- 18" X 36"
10.15	TOILET PARTITION
10.16	BABY CHANGING STATION
10.17	WALL SHELF
10.20	48" GRAB BAR
10.22	ATHLETIC LOCKERS
10.25	FULL LENGTH MIRROR-24" X 60"
22.1	DRINKING FOUNTAIN- SEE PLUMBING DRWG.
22.2	TOILET- SEE PLUMBING DRWG.
22.3	LAVATORY- SEE PLUMBING DRWG.
22.5	URINAL- SEE PLUMBING DRWG.
23.1	DUCTWORK-SEE MECH DRWG.



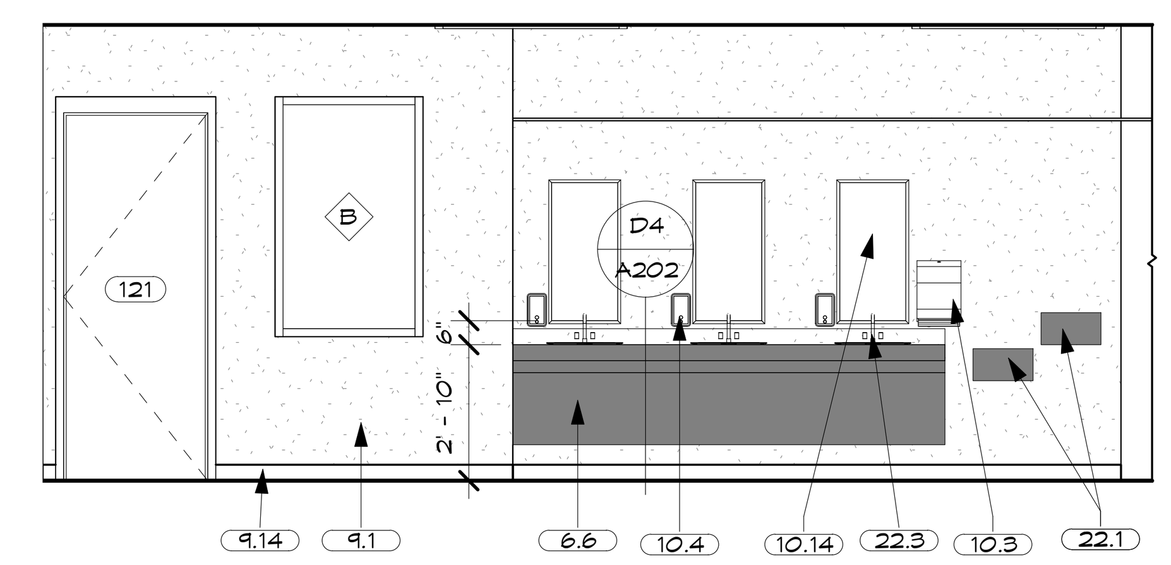
A5 A202 MENS RESTROOM - URINALS / LAVATORY
1/4" = 1'-0"



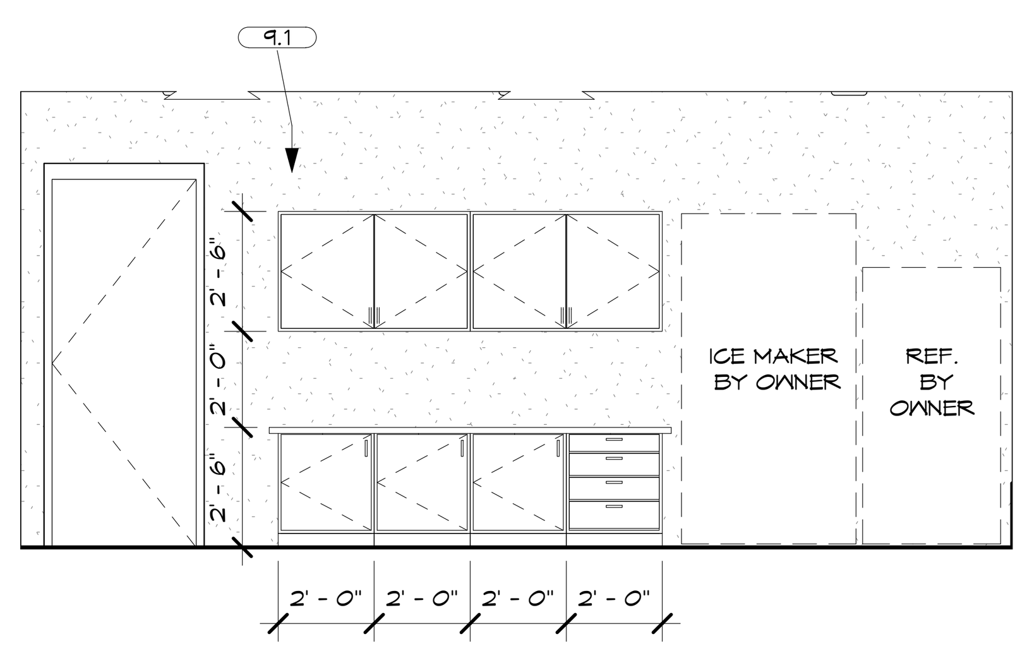
A4 A202 MENS RESTROOM - WATER CLOSET
1/4" = 1'-0"



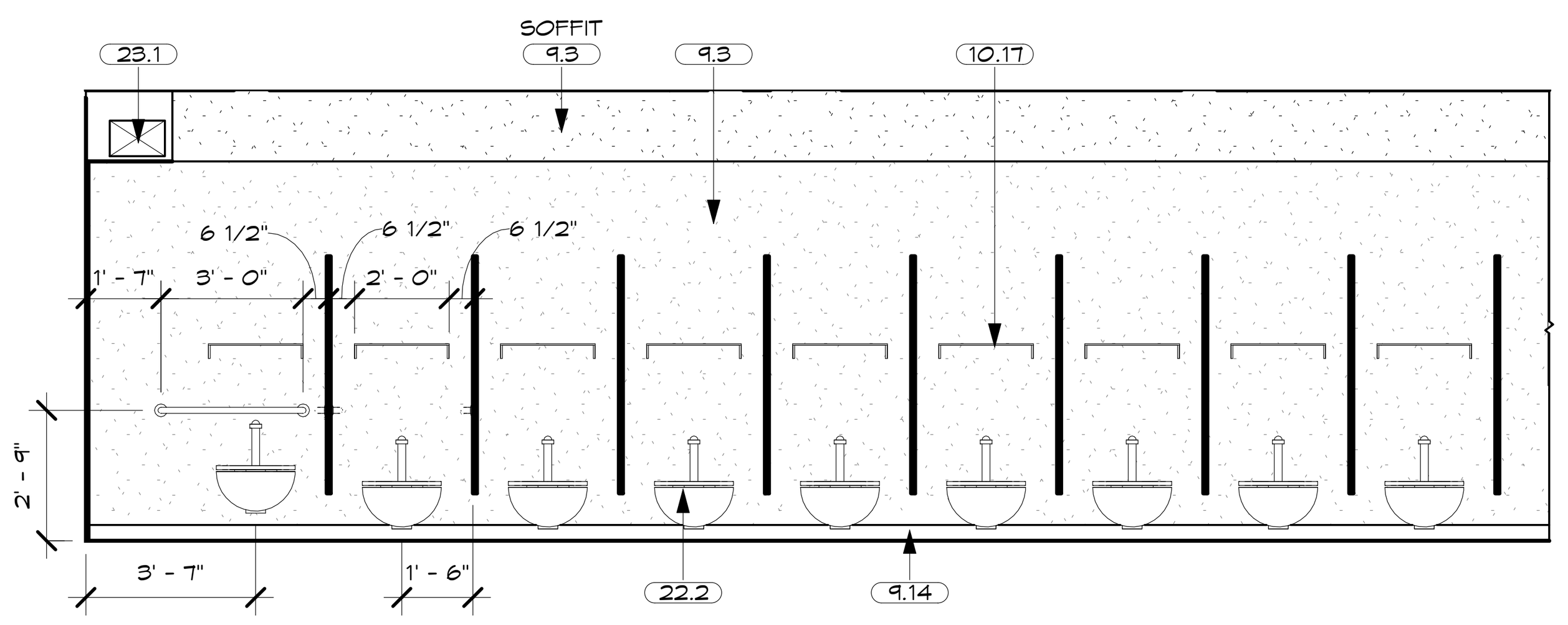
A3 A202 LOCKER ROOM - VISITOR SHOWERS
1/4" = 1'-0"



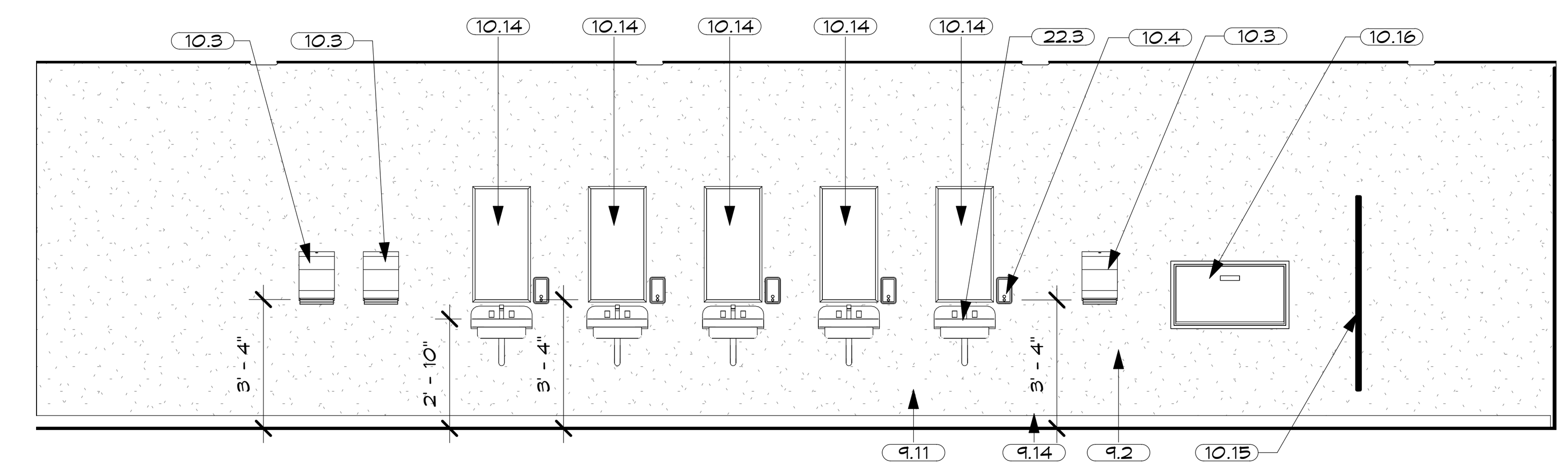
A2 A202 LOCKER ROOM - VISITOR INTERIOR ELEVATION
1/4" = 1'-0"



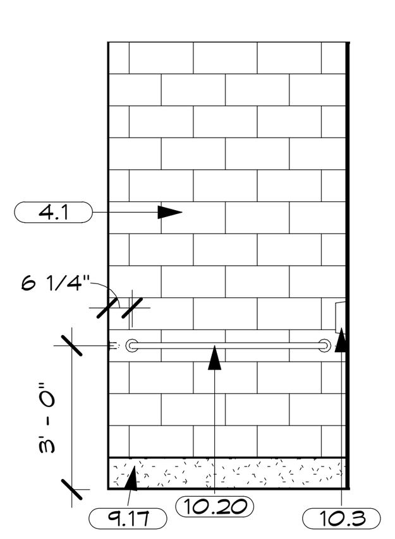
B4 A202 TRAINING ROOM - CASEWORK
1/4" = 1'-0"



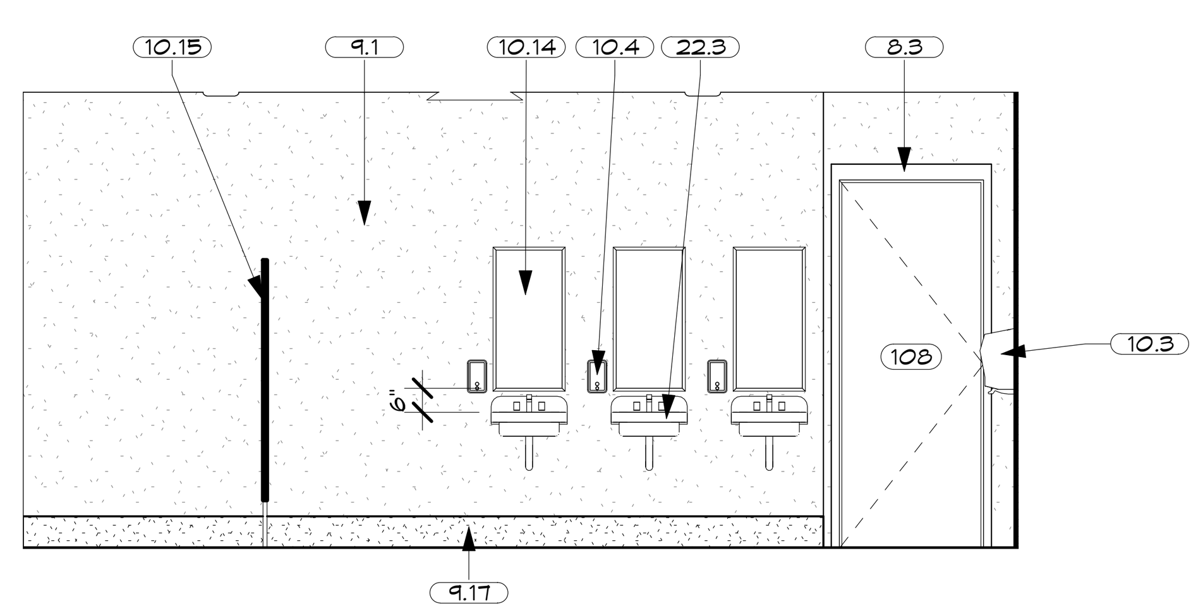
B3 A202 WOMENS RESTROOM - WATER CLOSETS
1/4" = 1'-0"



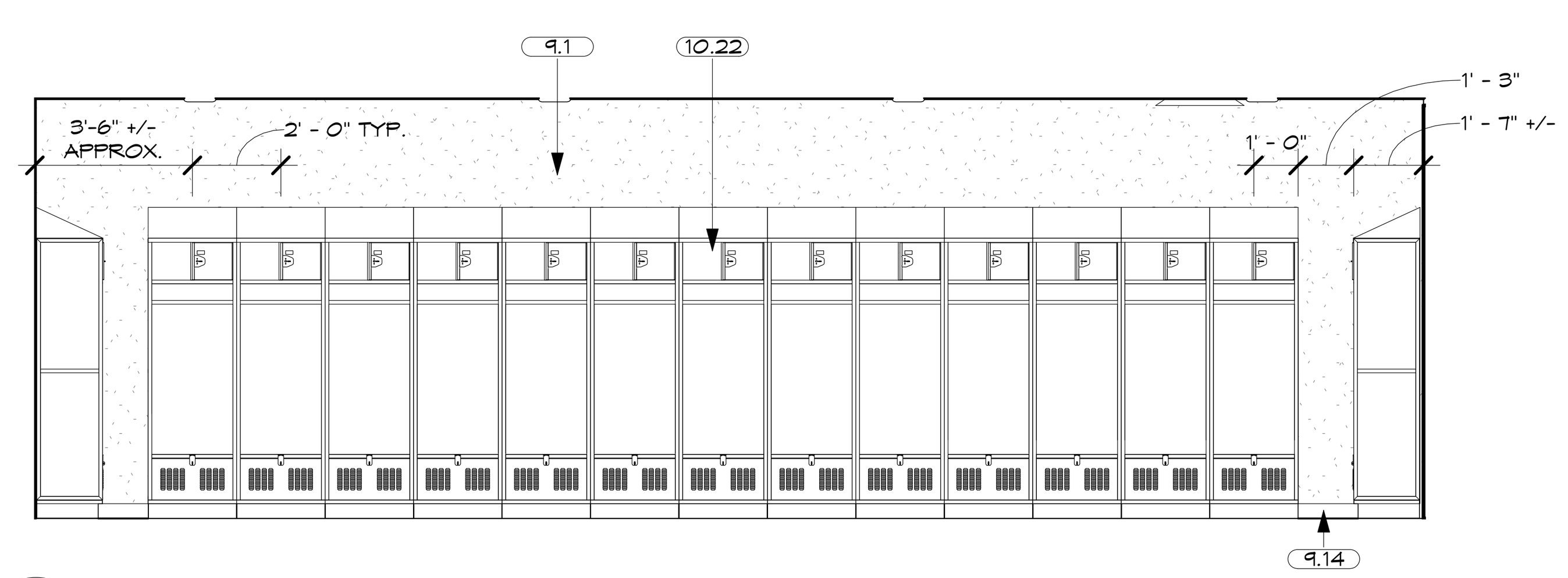
B2 A202 WOMENS RESTROOM - LAVATORY
1/4" = 1'-0"



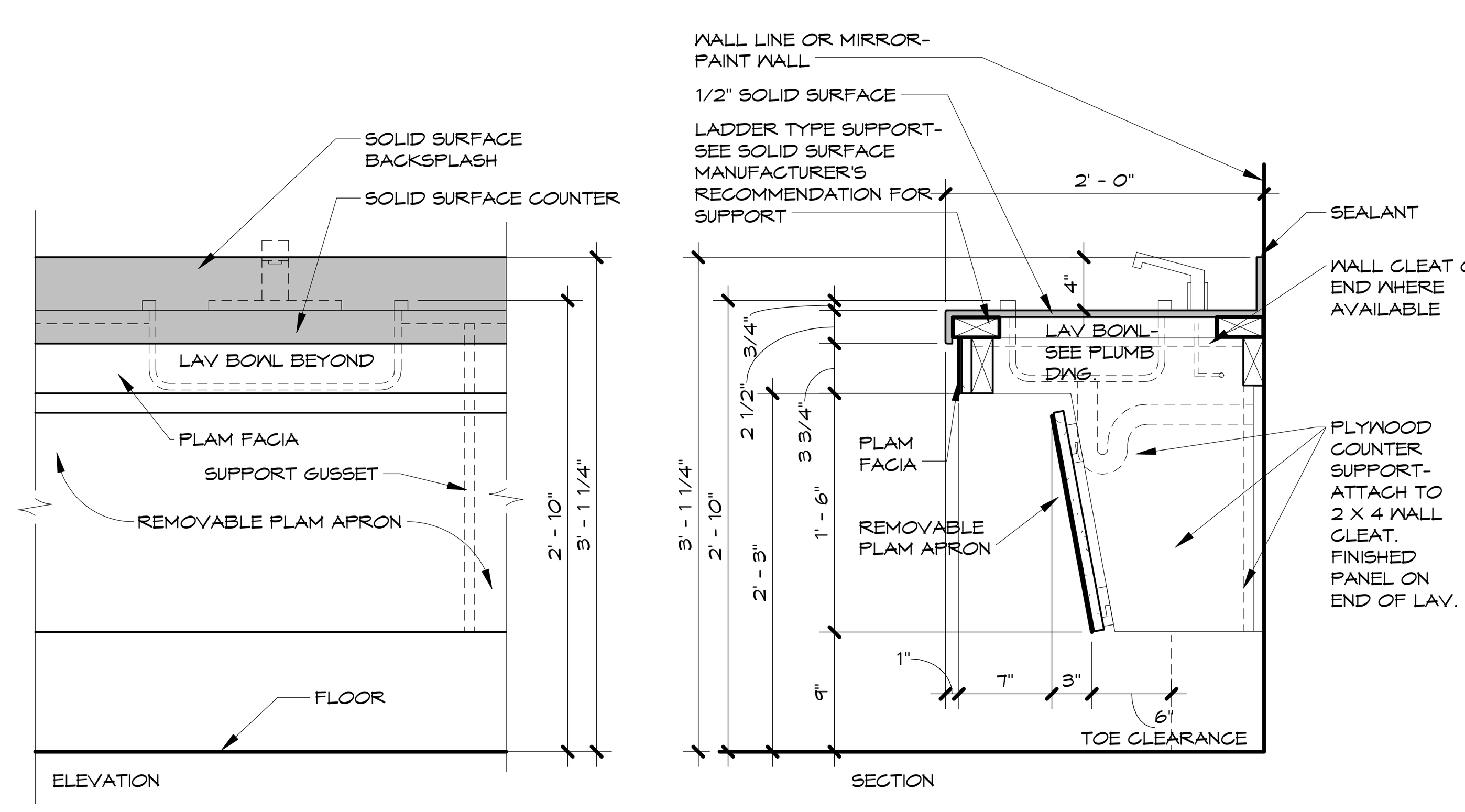
C5 A202 WEST ELEVATION @ ADA SHOWER
1/4" = 1'-0"



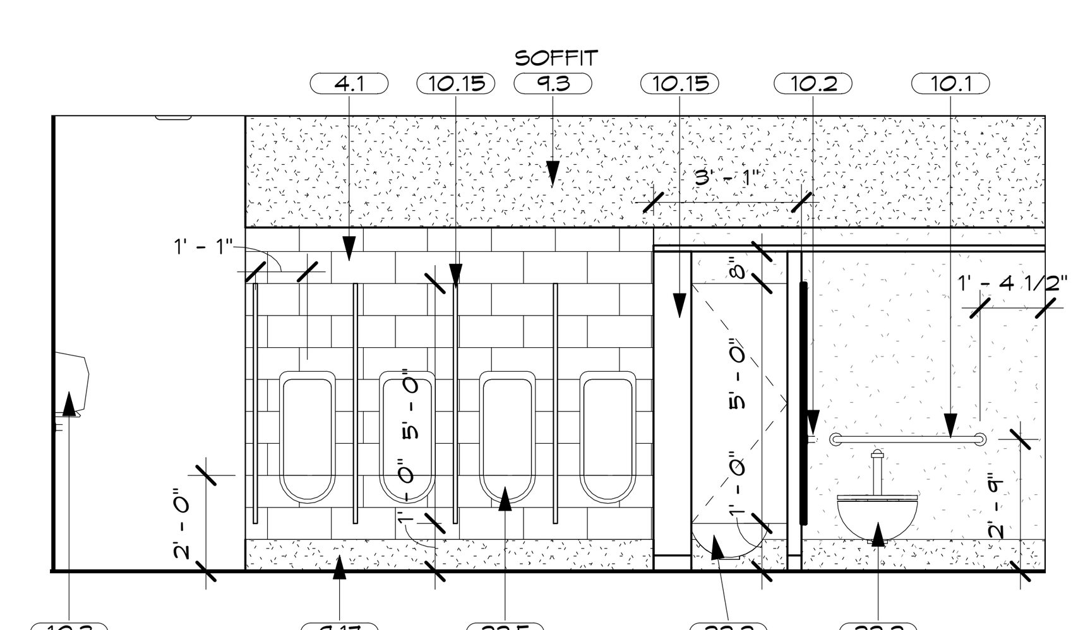
C4 A202 RESTROOM 111- EAST
1/4" = 1'-0"



C3 A202 LOCKER ROOM - HOME LOCKERS
1/4" = 1'-0"



D4 A202 LAVATORY COUNTER SECTION
1" = 1'-0"



D3 A202 LOCKER ROOM - HOME RESTROOM
1/4" = 1'-0"

A B C D

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REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

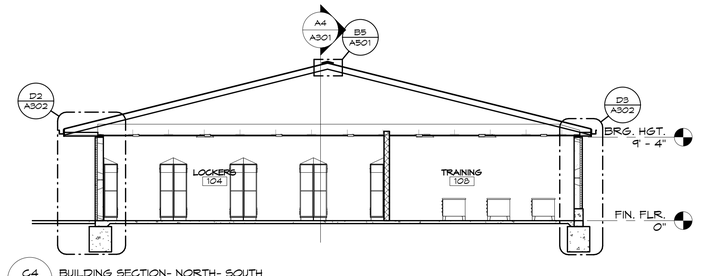
Sheet Title:
INTERIOR ELEVATIONS

Sheet: **A202**

Of:

NOTES

A4 / A301 BUILDING SECTION- EAST-WEST
1/8" = 1'-0"



C4 / A301 BUILDING SECTION- NORTH- SOUTH
1/8" = 1'-0"

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REV	DESCRIPTION	DATE

PATRICK A. SPEARS
3975
KANSAS
PROFESSIONAL ARCHITECT
7-7-2017

Project Number: **16036**

Date: **7/7/17**

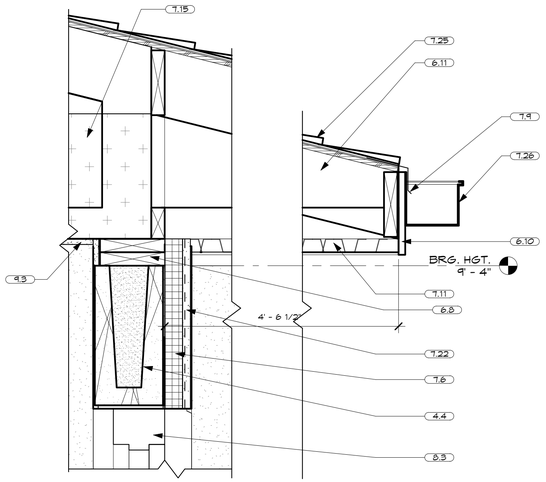
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
**4290 COLUMBIAN ROAD
WAMEGO, KS**

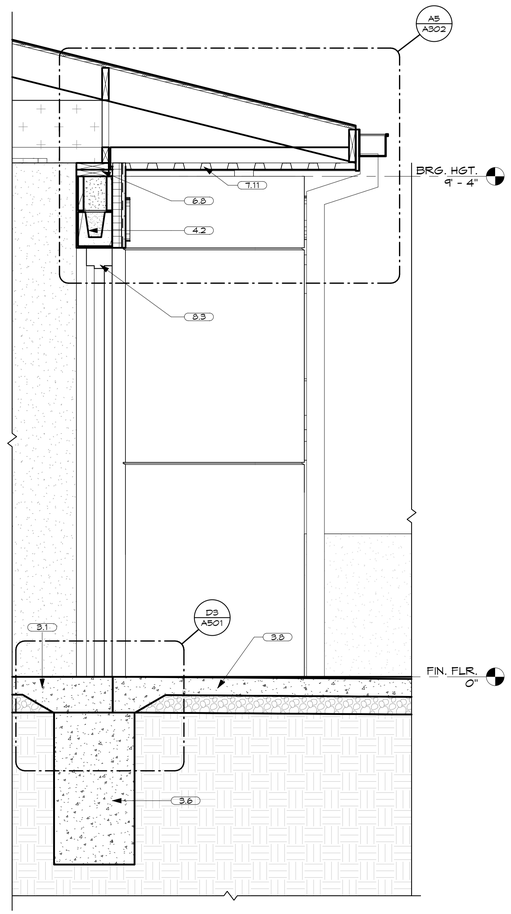
Sheet Title:
BUILDING SECTIONS

Sheet: **A301**

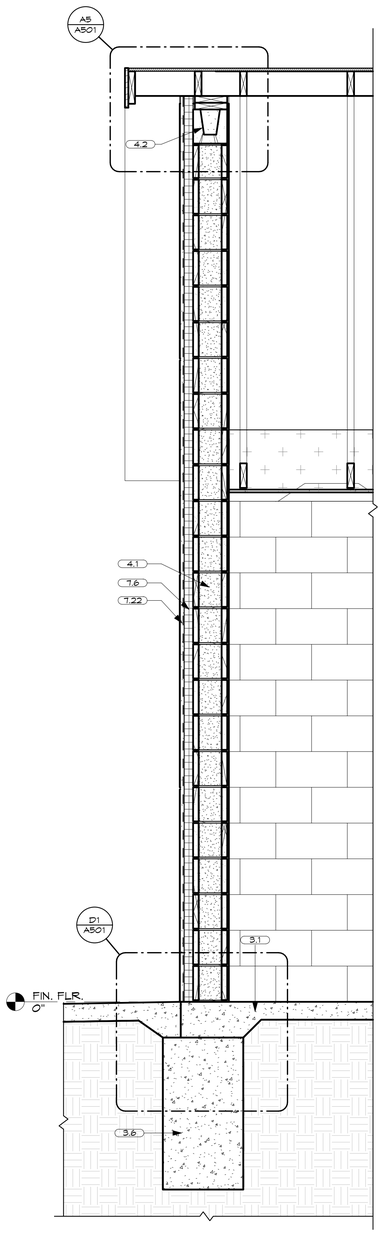
Of:



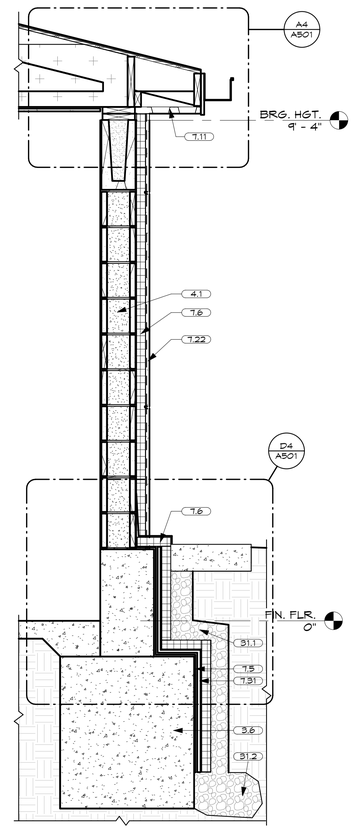
A5 / A302 EAST RESTROOM ENTRY SOFFIT
1 1/2" = 1'-0"



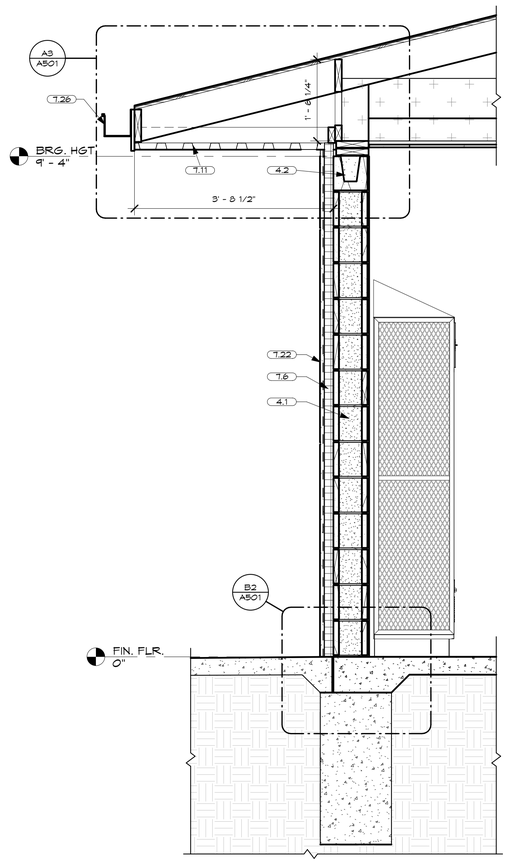
D5 / A302 WALL SECTION 3
3/4" = 1'-0"



D4 / A302 WALL SECTION 4
3/4" = 1'-0"

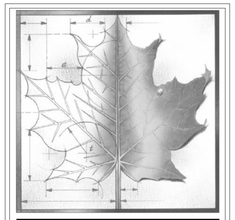


D3 / A302 WALL SECTION 2
3/4" = 1'-0"



D2 / A302 WALL SECTION 1
3/4" = 1'-0"

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
3.8	CONCRETE PAVEMENT- SIDEWALK
4.1	8" C.M.U.
4.2	8" C.M.U. BOND BEAM
4.4	12" C.M.U. BOND BEAM
6.8	WOOD BLOCKING
6.10	3/4" CEMENTITIOUS FACIA- PAINTED
6.11	WOOD TRUSSES- SEE STRUCTURAL
7.5	WATERPROOF MEMBRANE
7.6	2" RIGID WALL INSULATION
7.9	SHEET METAL FLASHING
7.11	METAL SOFFIT DECK
7.15	CELLULOSE INSULATION
7.22	E.I.F.S. VENEER
7.25	COMPOSITION ASPHALT SHINGLES
7.26	5" GUTTER
7.31	WALL DRAINAGE BOARD
8.3	HOLLOW METAL DOOR
9.3	5/8" TYPE 'X' GYP. BD. MOISTURE RESISTANT
31.1	GRAVEL FILL
31.2	4" DRAIN TILE-DRAIN TO DAYLIGHT



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MANHATTAN, KANSAS 66502
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REV	DESCRIPTION	DATE

PATRICK A. SCHAFF
GENERAL
3075
7-7-2017
KANSAS
PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

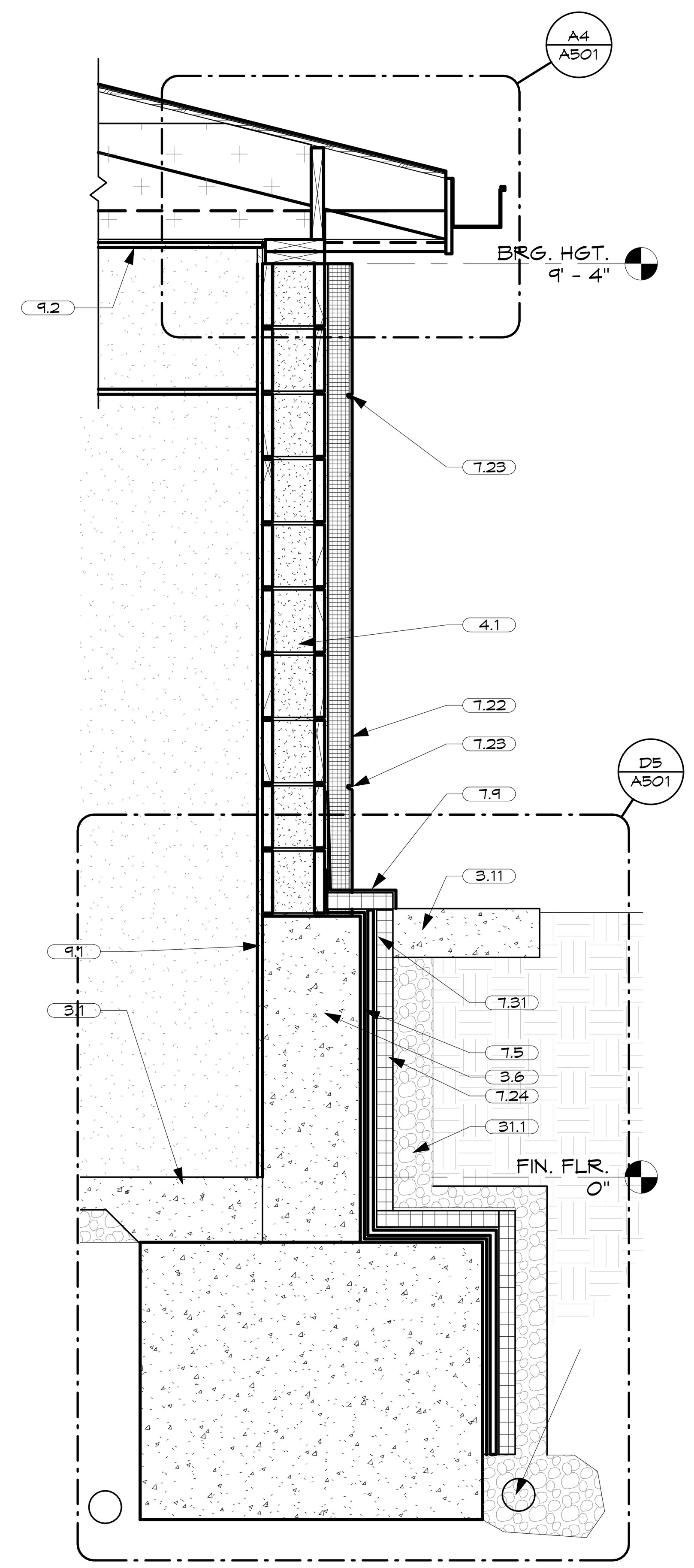
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
WALL SECTIONS

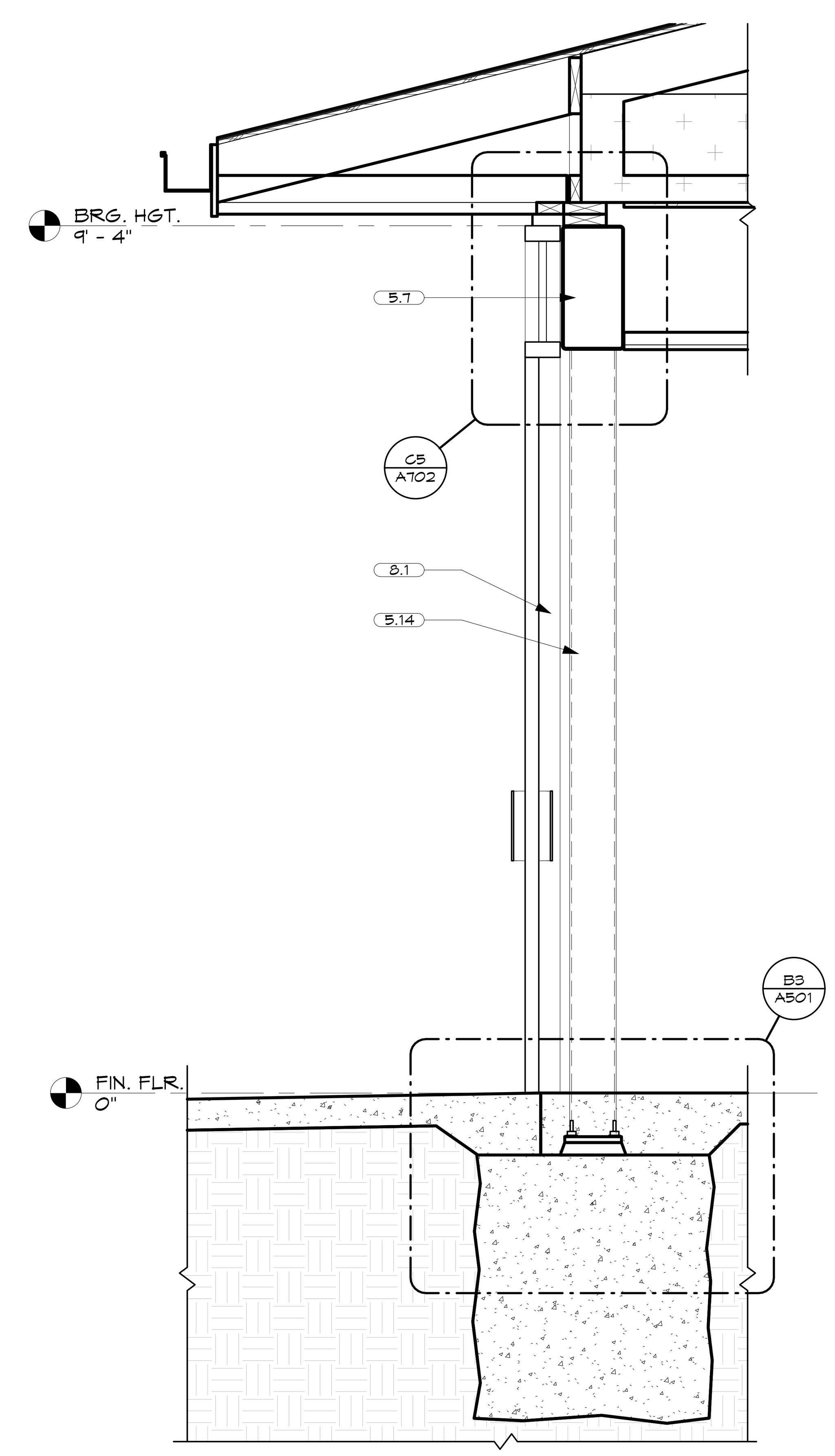
Sheet: **A302**

Of:

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
3.11	CONCRETE MOW STRIP-18" WIDE
4.1	8" C.M.U.
5.7	STEEL TUBE- SEE STRUCTURAL
5.14	STEEL COLUMN- SEE STRUCTURAL DRWG.
7.5	WATERPROOF MEMBRANE
7.9	SHEET METAL FLASHING
7.22	E.I.F.S. VENEER
7.23	E.I.F.S. REVEAL- SEE DETAIL
7.24	2" RIGID FOUNDATION INSULATION
7.31	WALL DRAINAGE BOARD
8.1	ALUMINUM STOREFRONT
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.2	5/8" TYPE 'X' GYP. BD.
31.1	GRAVEL FILL
31.2	4" DRAIN TILE-DRAIN TO DAYLIGHT



2
A303
Section 2
3/4" = 1'-0"



1
A303
Section 1
3/4" = 1'-0"

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REV	DESCRIPTION	DATE

Project Number: **16036**

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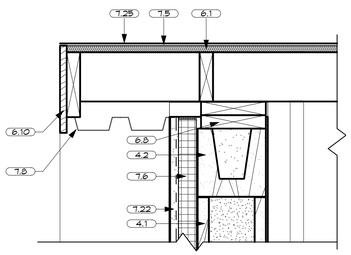
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

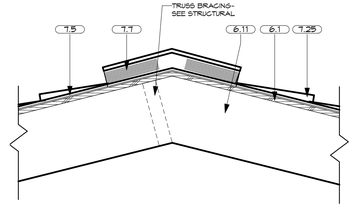
Sheet Title:
WALL SECTIONS

Sheet:
A303

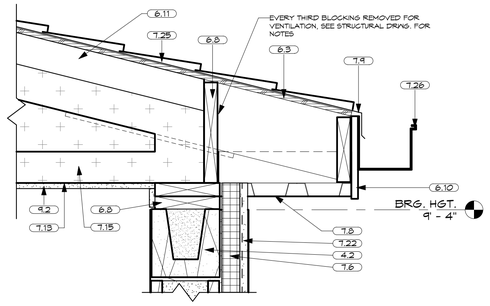
Of:



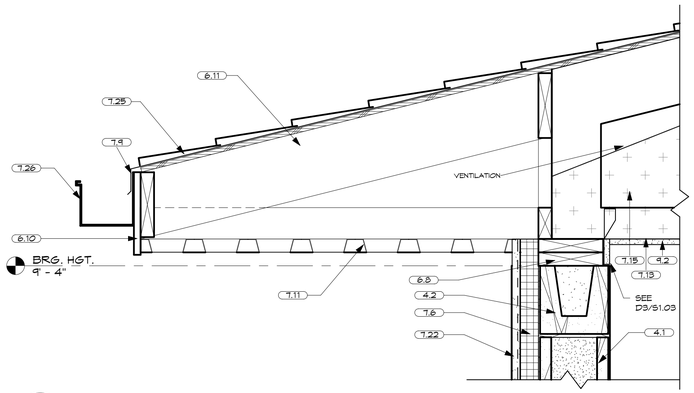
A5 A501 DETAIL @ WEST WALL RAKE
1 1/2" = 1'-0"



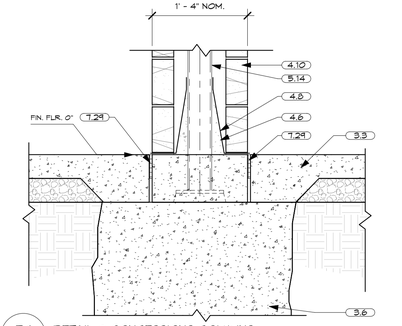
B5 A501 RIDGE DETAIL
1 1/2" = 1'-0"



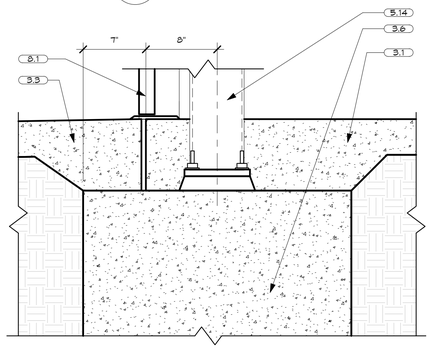
A4 A501 DETAIL @ NORTH WALL SOFFIT
1 1/2" = 1'-0"



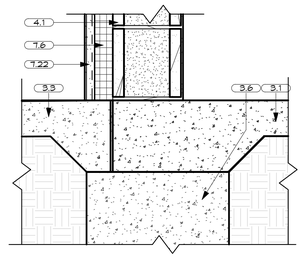
A3 A501 DETAIL @ SOUTH SOFFIT
1 1/2" = 1'-0"



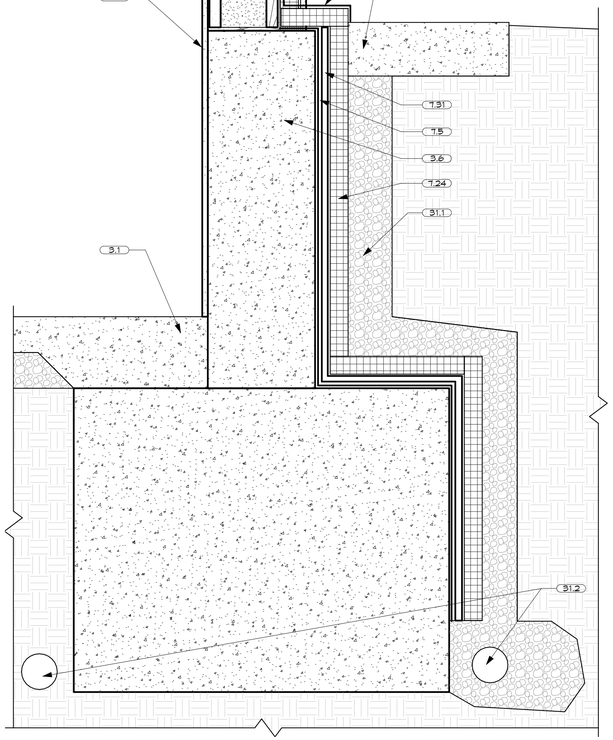
B4 A501 DETAIL @ CONCESSIONS COLUMNS
1" = 1'-0"



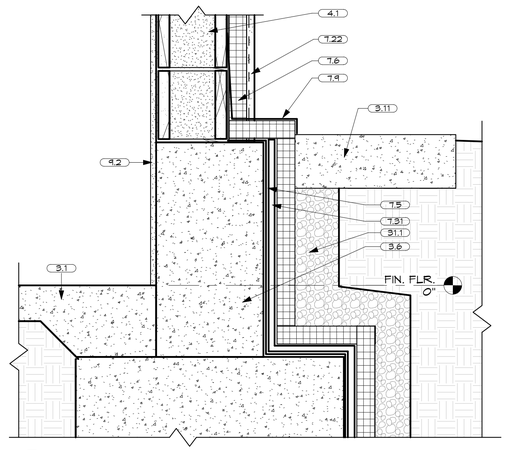
B3 A501 DETAIL @ FOUNDATION - COLUMN
1 1/2" = 1'-0"



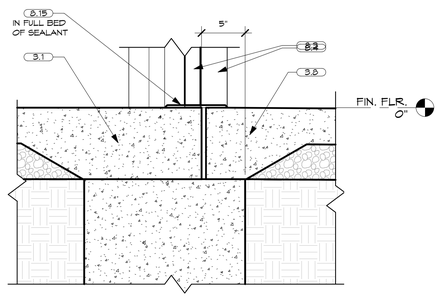
B2 A501 DETAIL @ SOUTH WALL FOUNDATION
1 1/2" = 1'-0"



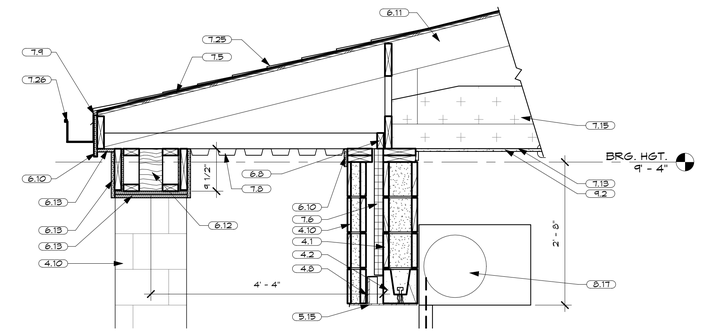
D5 A501 DETAIL @ NORTH FOUNDATION WALL
1 1/2" = 1'-0"



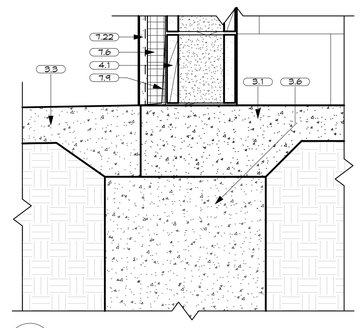
D4 A501 DETAIL @ NORTH WALL FOUNDATION
1 1/2" = 1'-0"



D3 A501 DETAIL @ FOUNDATION - EAST RESTROOM DOOR
1 1/2" = 1'-0"



C3 A501 CONCESSIONS SOFFIT AND COILING COUNTER DOOR DETAIL
3/4" = 1'-0"



D1 A501 DETAIL @ WEST WALL FOUNDATION
1 1/2" = 1'-0"

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
3.8	CONCRETE PAVEMENT- SIDEWALK
3.11	CONCRETE MOW STRIP-18" WIDE
4.1	8" C.M.U.
4.2	8" C.M.U. BOND BEAM
4.6	SOLID GROUT
4.8	THRU-WALL FLASHING WITH DRIP EDGE
4.10	4" BURNISHED BLOCK VENEER
5.14	STEEL COLUMN- SEE STRUCTURAL DRWG.
5.15	STEEL LINTEL- SEE STRUCTURAL
6.1	1/2" PLYWOOD SHEATHING- VERIFY WITH STRUCTURAL
6.3	3/4" PLYWOOD SHEATHING- VERIFY WITH STRUCTURAL
6.8	WOOD BLOCKING
6.10	3/4" CEMENTITIOUS FACIA- PAINTED
6.11	WOOD TRUSSES- SEE STRUCTURAL
6.12	PSL ROOF BEAM- SEE STRUCTURAL
6.13	3/4" WOOD TRIM- PAINTED
7.5	WATERPROOF MEMBRANE
7.6	2" RIGID WALL INSULATION
7.7	RIDGE VENT
7.8	METAL SOFFIT DECK- VENTED
7.9	SHEET METAL FLASHING
7.11	METAL SOFFIT DECK
7.13	VAPOR BARRIER
7.15	CELLULOSE INSULATION
7.22	E.I.F.S. VENEER
7.24	2" RIGID FOUNDATION INSULATION
7.25	COMPOSITION ASPHALT SHINGLES
7.26	5" GUTTER
7.29	EXPANSION JOINT- PAVEMENT
7.31	WALL DRAINAGE BOARD
8.1	ALUMINUM STOREFRONT
8.3	HOLLOW METAL DOOR
8.4	HOLLOW METAL FRAME
8.15	THRESHOLD
8.17	OVERHEAD ALUMINUM SLAT COUNTER DOOR
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.2	5/8" TYPE 'X' GYP. BD.
31.1	GRAVEL FILL
31.2	4" DRAIN TILE-DRAIN TO DAYLIGHT

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
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REV	DESCRIPTION	DATE

PATRICK A. SPENCER 30753 7-7-17 KANSAS PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
DETAILS

Sheet:
A501

Of:

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	NORTH		EAST		SOUTH		WEST		CEILING	
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	HEIGHT
100	CONCESSIONS	SC	R	GYP/CMU	EP	CMU	EP	CMU	EP	GYP/CMU	EP	GYP	9' - 6"
101	WOMENS	SC	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	GYP	9' - 6"
102	FAMILY	SC	R	GYP	EP	CMU	EP	GYP	EP	GYP	EP	GYP	9' - 6"
103	MENS	SC	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	GYP	9' - 6"
104	LOCKERS	SC	R	GYP	EP	GYP	EP	CMU	P	GYP	P	GYP	9' - 6"
105	OFFICE	CPT	R	GYP	P	GYP	P	GYP	P	GYP	P	GYP	9' - 6"
106	LOCKERS	CPT	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	GYP	9' - 6"
107	RESTROOM	ER	EB	GYP	EP	GYP	EP	GYP	EP	GYP	EP	GYP	9' - 6"
108	TRAINING	CPT	R	CMU	P	GYP	P	GYP	P	GYP	P	GYP	9' - 6"
109	LAUNDRY AND STORAGE	SC	R	CMU	P	GYP	P	GYP	P	GYP	P	GYP	9' - 6"
110	ENTRY	ER	EB	CMU	EP	GYP	EP	---	---	GYP	EP	GYP	9' - 6"
111	RESTROOM	ER	EB	CMU	EP	GYP	EP	---	---	GYP/CMU	P	GYP	9' - 6"
112	SHOWER	ER	EB	CMU	EP	CMU	EP	CMU	EP	CMU	EP	GYP	9' - 6"
113	CUSTODIAL	SC	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	GYP	9' - 6"
114	ENTRY	ER	EB	GYP	EP	GYP	EP	CMU	EP	GYP	EP	APC-2	8' - 0"
115	TEAM MEETING	CPT	R	GYP/CMU	EP	GYP/CMU	EP	GYP	EP	GYP	EP	APC-2	8' - 8"
116	MECHANICAL	SC	R	CMU	P	GYP	P	GYP	P	CMU	P	GYP	9' - 6"
117	VESTIBULE	ER	EB	GYP	EP	GYP	EP	CMU	EP	GYP	EP	GYP	9' - 6"
118	LOCKERS	SC	R	CMU	EP	GYP	EP	CMU	EP	GYP	EP	GYP	9' - 6"
119	RESTROOM	ER	EB	---	---	GYP	EP	GYP	EP	CMU	EP	GYP	9' - 6"
120	SHOWER	ER	EB	CMU	EP	CMU	EP	---	---	CMU	EP	GYP	9' - 6"
121	OFFICE	CPT	R	GYP	P	GYP	P	GYP	P	CMU	P	GYP	9' - 6"
122	RESTROOM	ER	EB	GYP	EP	GYP	EP	CMU	EP	GYP	EP	GYP	9' - 6"
123	OFFICIALS	CPT	R	GYP	P	GYP	P	CMU	P	CMU	P	GYP	9' - 6"

MATERIAL/FINISH KEY

FLOOR FINISHES:
SC - SEALED CONCRETE
CPT - CARPET (SEE FLOOR FINISH PLAN)
ER - EPOXY RESIN

BASE FINISHES:
R - 4" RUBBER BASE- STRAIGHT AT CARPET TILE, COVED AT HARD FLOORS
EB - EPOXY RESIN BASE

WALL MATERIAL:
CMU - CONCRETE MASONRY UNIT
GYP - GYPSUM WALLBOARD

WALL FINISH:
EP - EPOXY PAINT
P - PAINT

CEILING FINISH:
GYP - GYPSUM BOARD CEILING
APC-2 - ACOUSTIC PANEL CEILING- ARMSTRONG CIRRUS 584

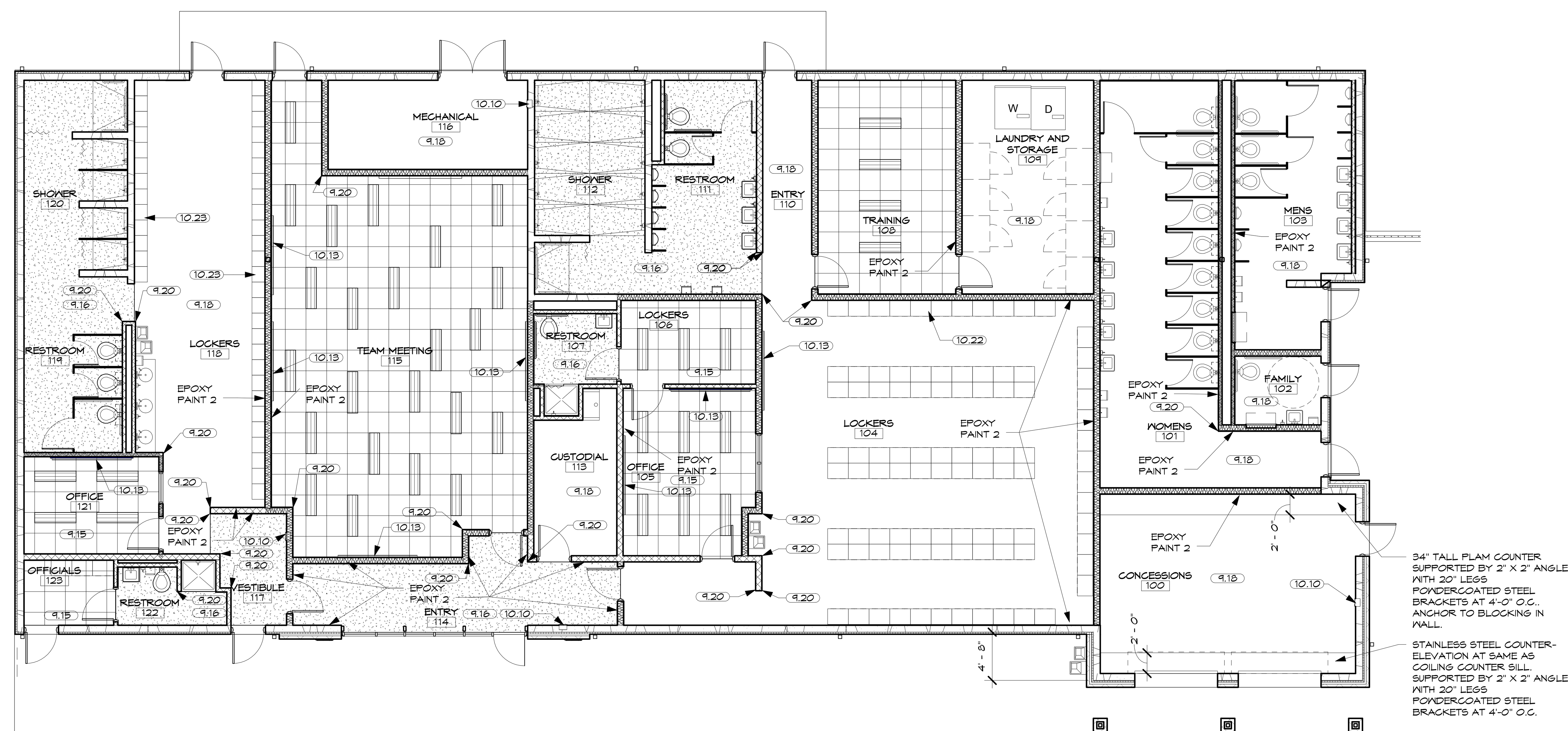
FINISH NOTES:

1. ALL PAINTED OR EPOXY PAINTED WALLS TO MATCH SHERWIN WILLIAMS SW7541 GRECIAN IVORY UNLESS INDICATED ON THE FLOOR FINISH PLAN AS EPOXY PAINT/PAINT 2, WHICH IS TO MATCH SHERWIN WILLIAMS SW6866 HEARTHROB.

2. ALL PAINTED GYPSUM BOARD CEILINGS TO MATCH SHERWIN WILLIAMS SW7004 SNOWBOUND.

3. ALL GYPSUM BOARD WALLS WITHIN 8'-0" OF THE FLOOR TO BE IMPACT RESISTANT TYPE GYPSUM BOARD WITH MOLD RESISTANCE, TYPE X. ALL OTHER GYPSUM BOARD WALLS, SOFFITS AND CEILINGS TO BE TYPE X, EXCEPT MOLD RESISTANT TYPE X IN WET WALL CONDITIONS.

NOTES	
9.15	CARPET TILE
9.16	EPOXY RESIN FLOORING
9.18	SEALED CONCRETE
9.20	POWDER COATED STEEL CORNER GUARD- 2" X 2" ANGEL
10.10	FIRE EXTINGUISHER CABINET
10.13	MARKER BOARD
10.22	ATHLETIC LOCKERS
10.23	TWO TIER LOCKERS



NORTH

FLOOR PLAN - FINISH PLAN
1/8" = 1'-0"

FLOOR FINISH HATCH KEY:

CPT 1 (CARPET TILE) 90% 2' X 2' SQUARES WITH 10% 1' X 4' PLANKS
COLOR 1 (FIELD)
COLOR 2 (ACCENT)

EPOXY RESIN FLOORING

SEALED CONCRETE

BBN

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MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
ROOM FINISH SCHEDULE

Sheet:
A601

Of:

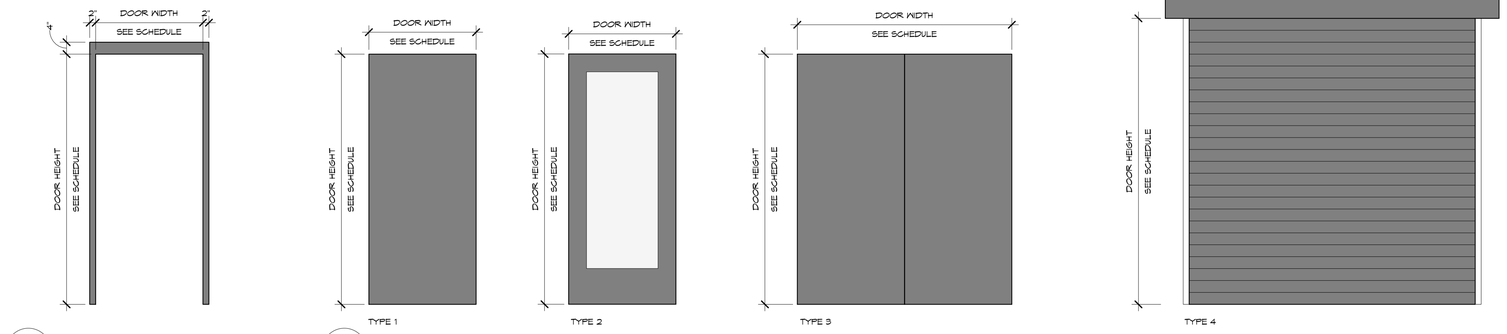
DOOR SCHEDULE												
DOOR NUMBER	DOOR		DOOR		FRAME		FIRE RATING	DETAILS			HARDWARE	COMMENTS
	WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	TYPE		HEAD	JAMB	THRESHOLD		
100A	3' - 0"	7' - 8"	HM	1	HM	1		A5/A701	C5/A701	D5/A701	1	
100B	8' - 0"	4' - 0"	ALUM	4	ALUM	---		D3/A701	---	---	2	OVERHEAD COILING ALUMINUM COUNTER DOOR
100C	8' - 0"	4' - 0"	ALUM	4	ALUM	---		D3/A701	---	---	2	OVERHEAD COILING ALUMINUM COUNTER DOOR
101	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	3	
102	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	5	
103	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	3	
104	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	8	
105	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	10	
106	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	11	
107	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	13	
108	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	12	
109	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	12	
110	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	4	
113	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	14	
114	3' - 0"	7' - 11"	HM	2	HM	WINDOW TYPE A		---	D4/A701	---	4	
115A	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	8	
115B	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	4	
116	6' - 4"	7' - 8"	HM	3	HM	1		---	---	---	6	
117A	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	4	
117B	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	9	
118	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	4	
121	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	10	
122	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	13	
123	3' - 0"	7' - 8"	HM	1	HM	1		---	---	---	7	

NOTES:

1. FOR ALL EXTERIOR DOORS REFER TO DETAILS A4/A701, C4/A701, AND D5/A701 FOR HEAD, JAMB AND THRESHOLD DETAILS UNLESS NOTED OTHERWISE IN SCHEDULE.

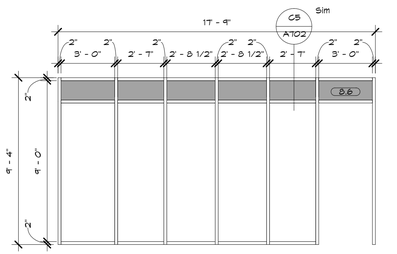
2. FOR ALL INTERIOR DOORS REFER TO DETAILS A3/A701 AND C3/A701 FOR HEAD AND JAMB UNLESS NOTED OTHERWISE IN SCHEDULE.

NOTES	
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED

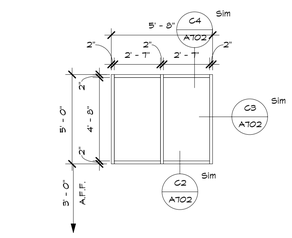


5 / A602 FRAME TYPE 1 1/2" = 1'-0"

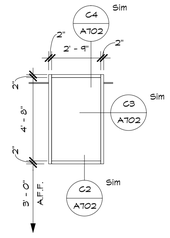
1 / A602 DOOR TYPES 1/2" = 1'-0"



6 / A602 WINDOW TYPE A 1/4" = 1'-0"



7 / A602 WINDOW TYPE B 1/4" = 1'-0"



8 / A602 WINDOW TYPE C 1/4" = 1'-0"

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
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REV	DESCRIPTION	DATE

PATRICK A. SPEAR — 3975 — 7-7-17 — KANSAS — PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

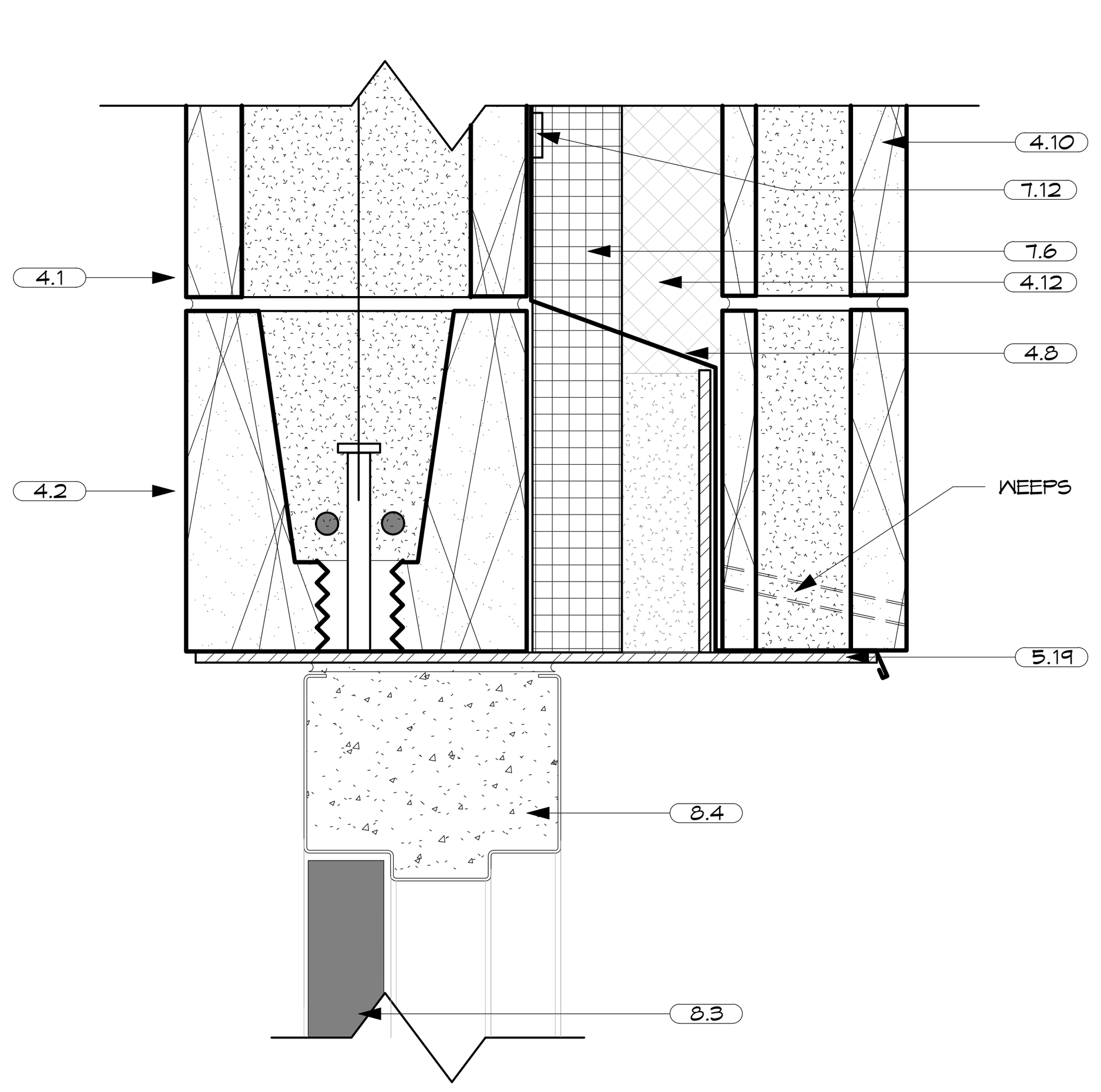
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

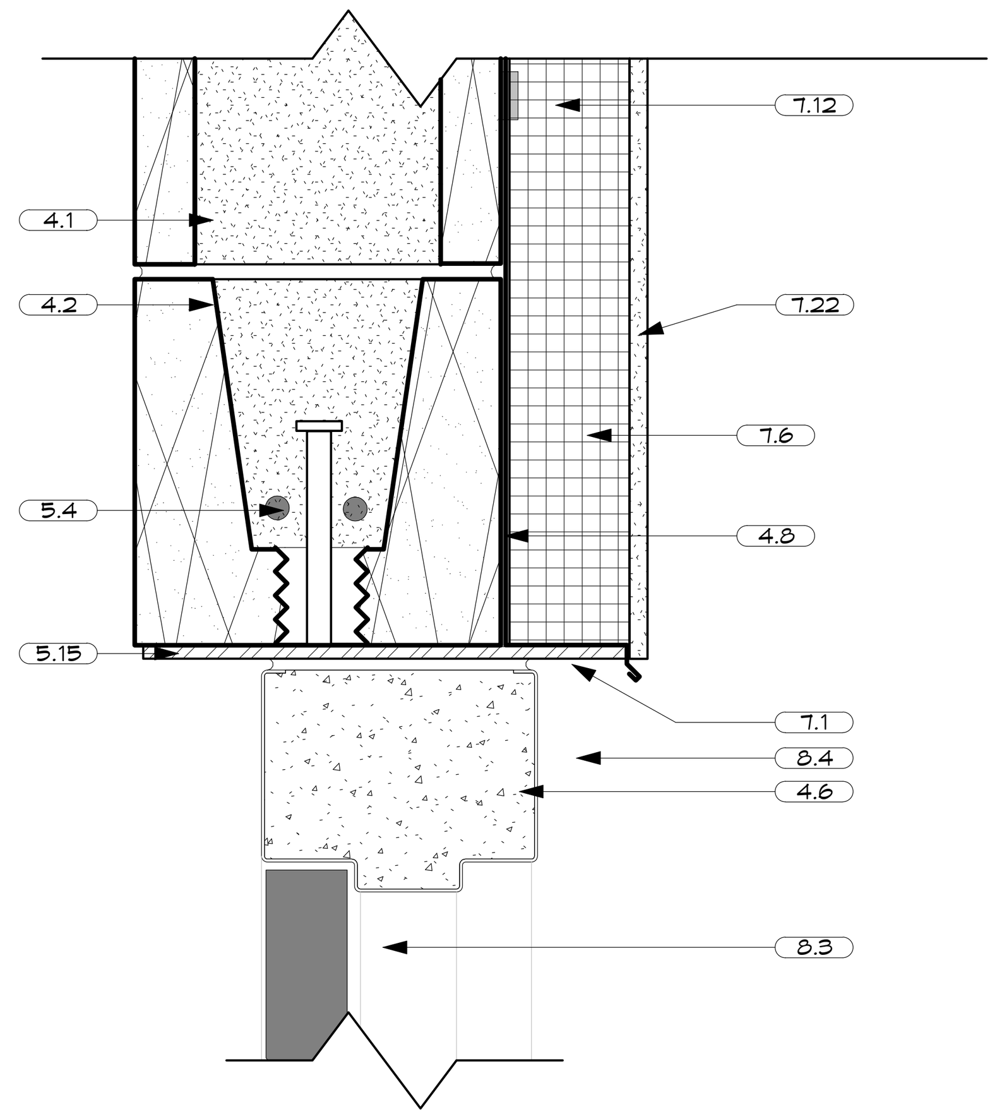
Sheet Title:
DOOR SCHEDULE AND DETAILS

Sheet:
A602

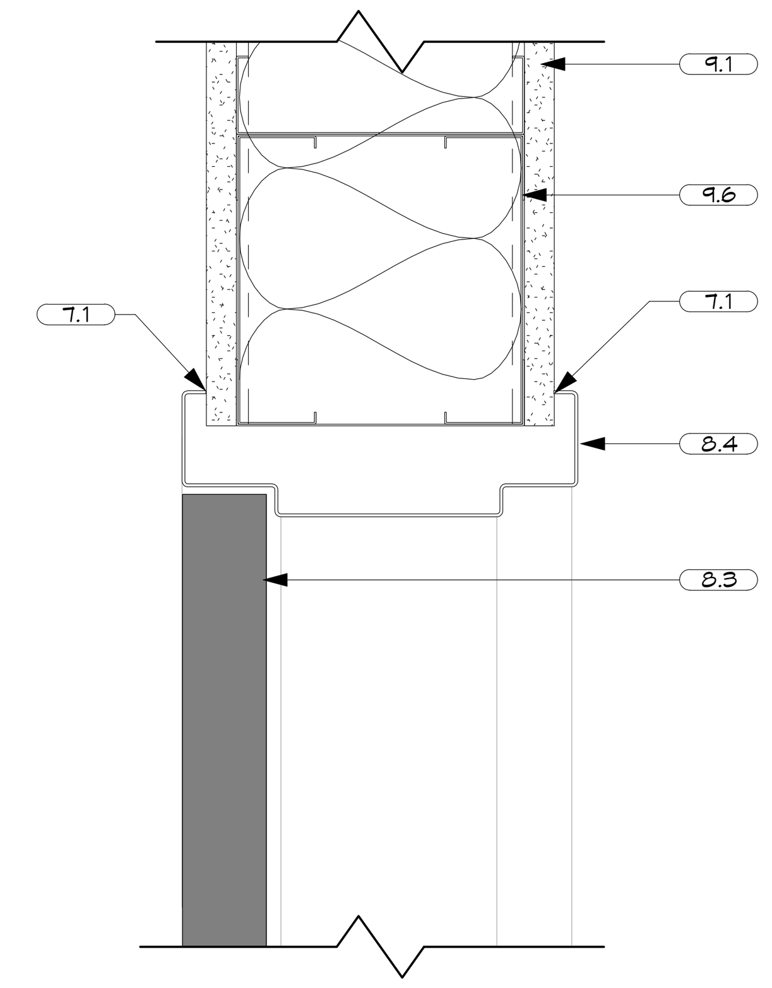
Of:



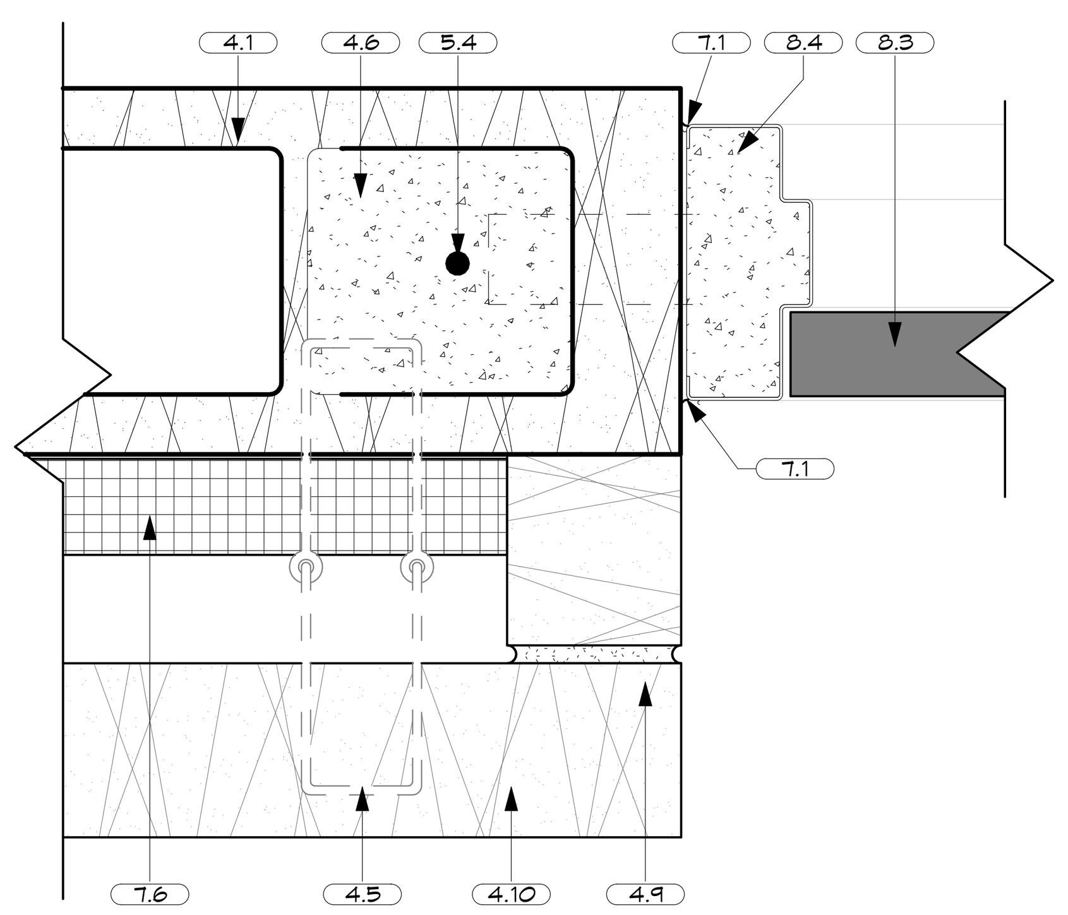
A5 EXTERIOR HEAD - THICK
A701 3" = 1'-0"



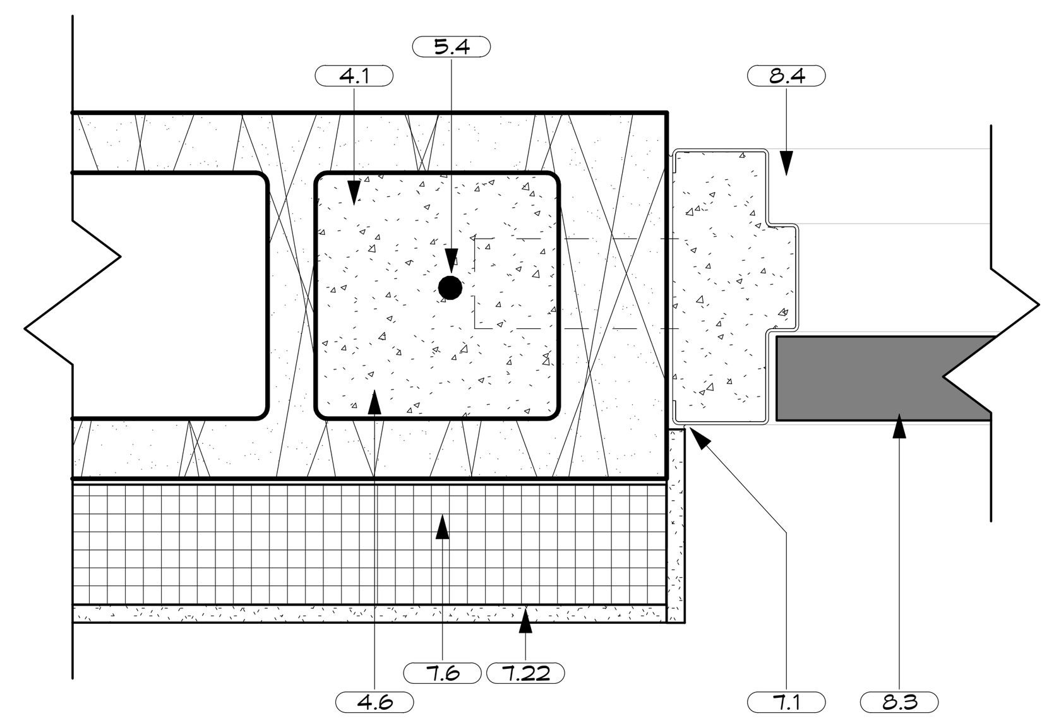
A4 EXTERIOR DOOR DETAIL - HEAD (THIN)
A701 3" = 1'-0"



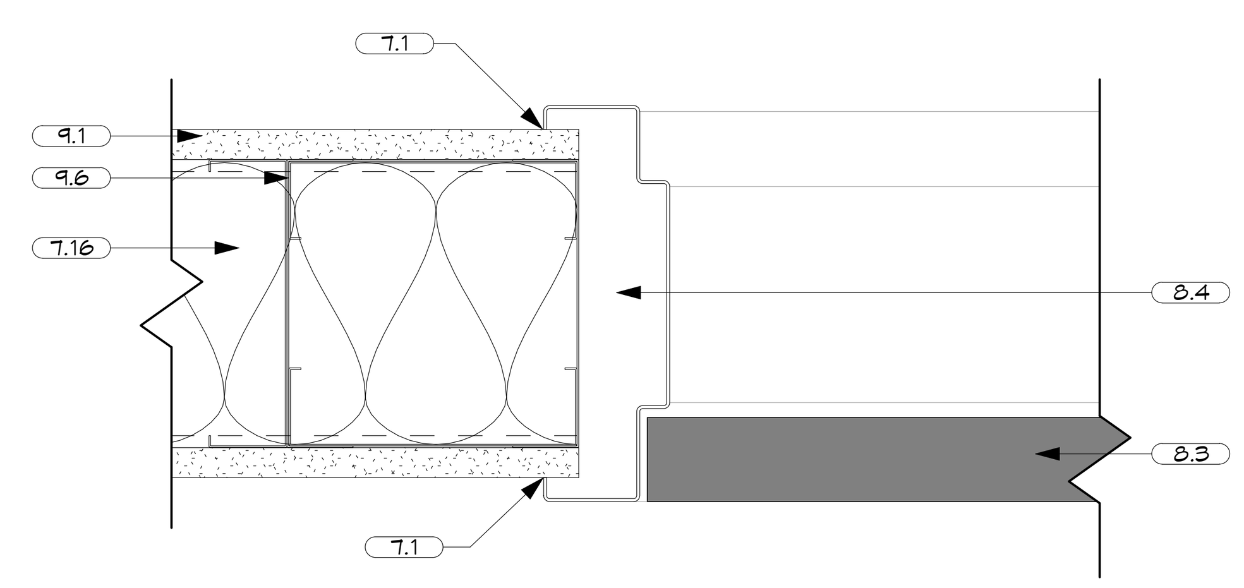
A3 TYPICAL DOOR HEAD
A701 3" = 1'-0"



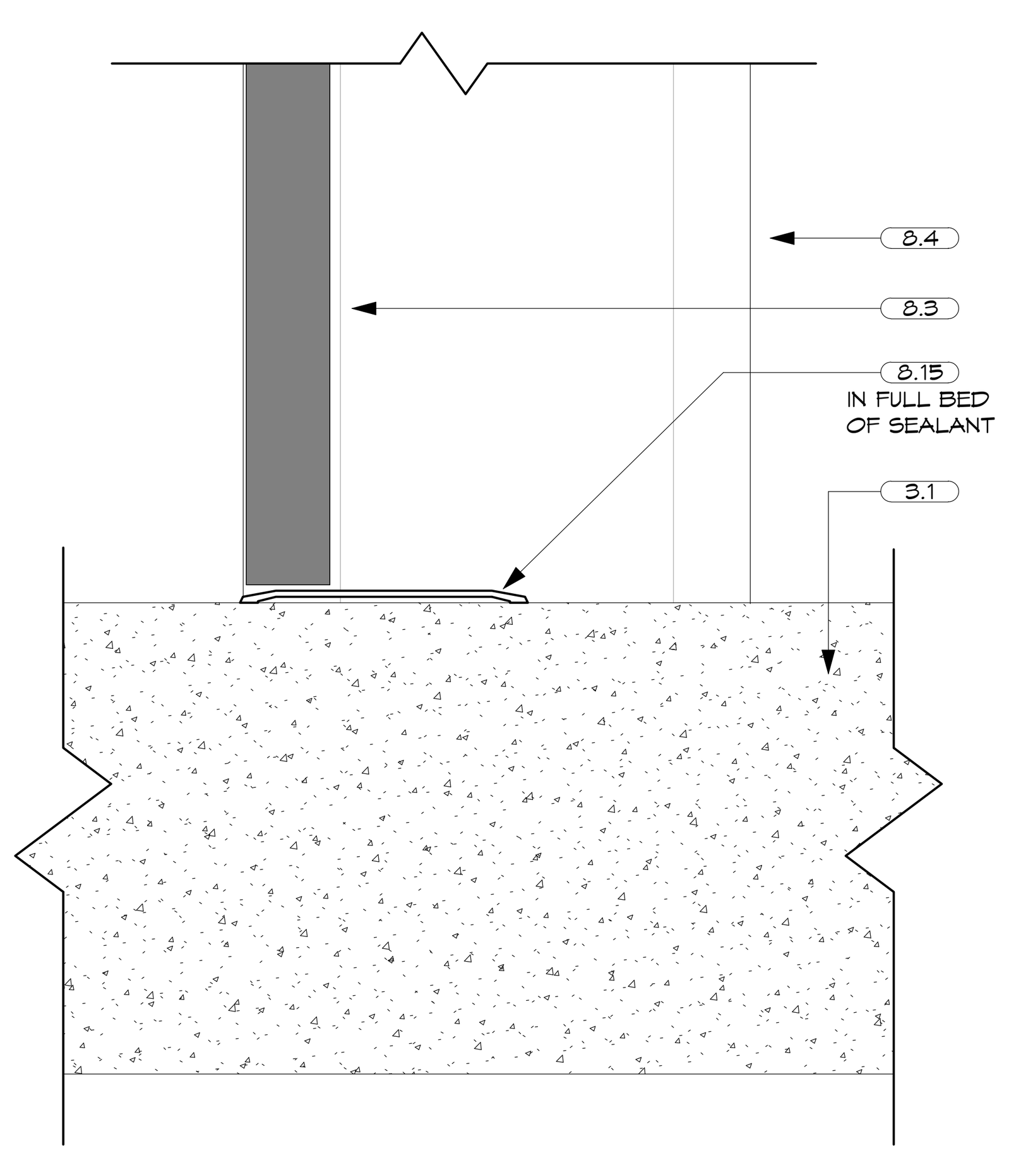
C5 EXTERIOR DOOR JAMB
A701 3" = 1'-0"



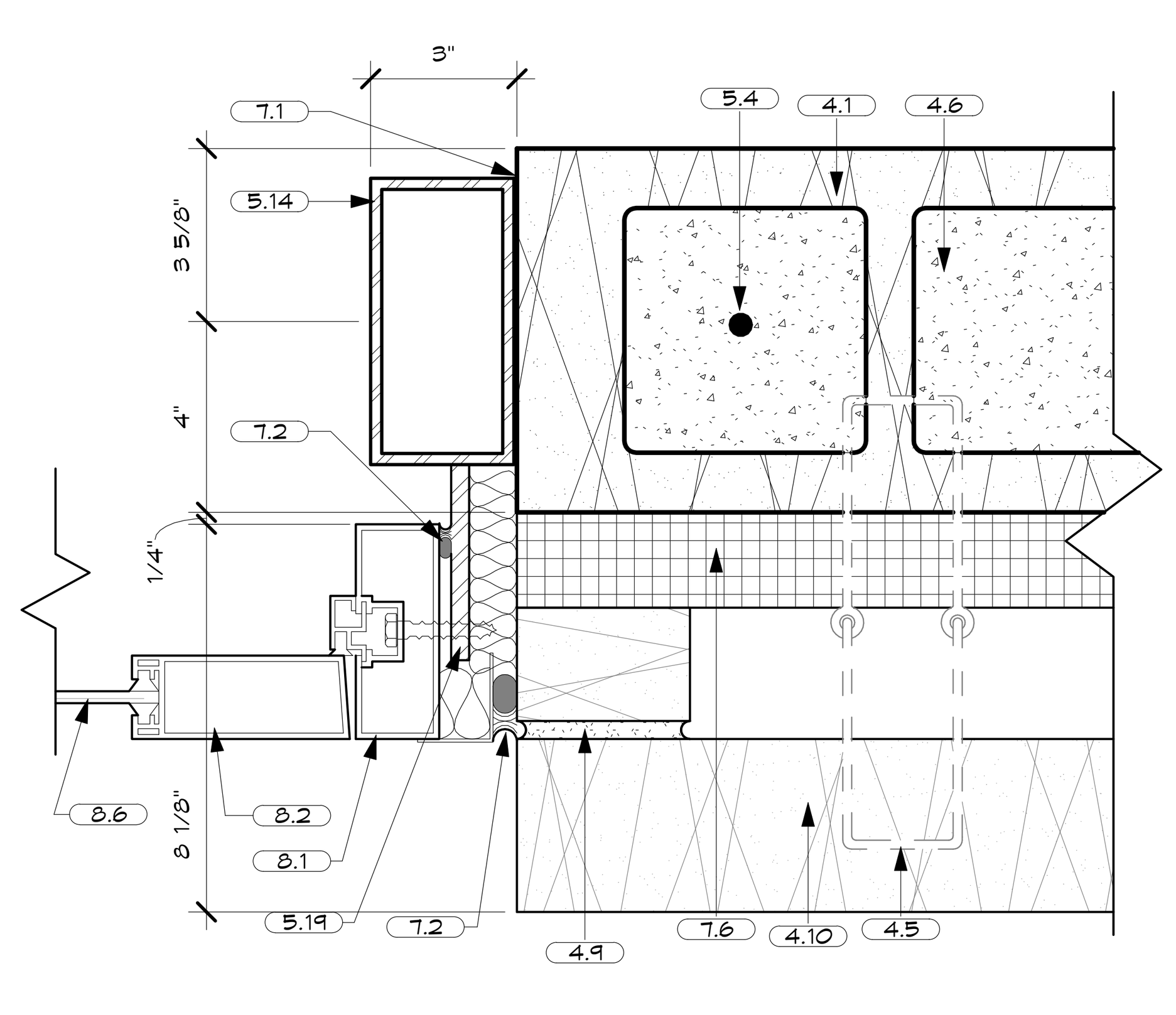
C4 EXTERIOR DOOR DETAIL - JAMB (THIN)
A701 3" = 1'-0"



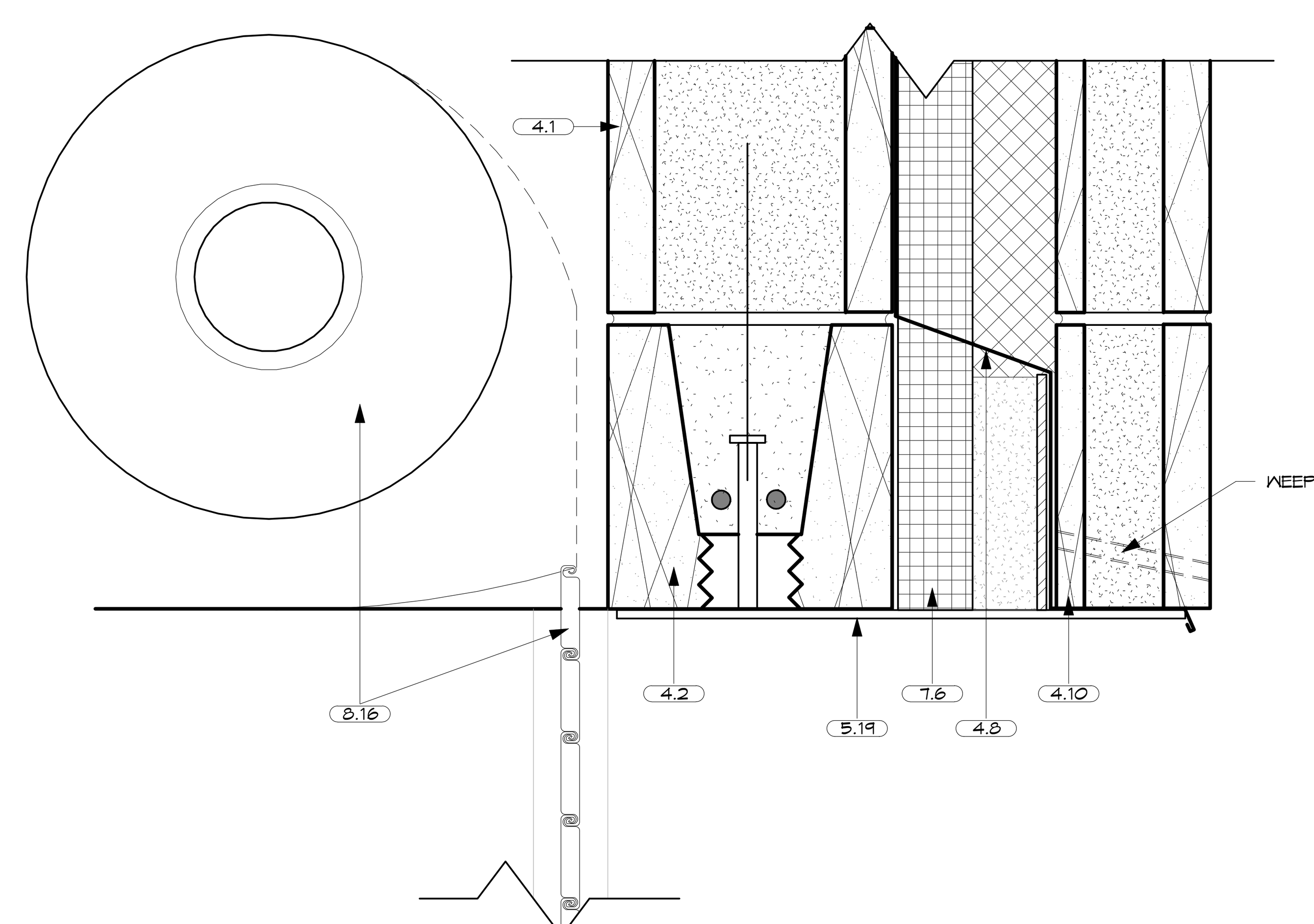
C3 TYPICAL DOOR JAMB
A701 3" = 1'-0"



D5 TYPICAL DOOR SILL
A701 3" = 1'-0"



D4 DOOR TYPE 2 - JAMB
A701 3" = 1'-0"



D3 DOOR TYPE 4 - HEAD
A701 3" = 1'-0"

NOTES

3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
4.1	8" C.M.U.
4.2	8" C.M.U. BOND BEAM
4.5	MASONRY TIE
4.6	SOLID GROUT
4.8	THRU-WALL FLASHING WITH DRIP EDGE
4.9	MORTAR
4.10	4" BURNISHED BLOCK VENEER
4.12	CAVITY DRAINAGE MATERIAL
5.4	STEEL REINFORCING
5.14	STEEL COLUMN- SEE STRUCTURAL DRWG.
5.15	STEEL LINTEL- SEE STRUCTURAL
5.19	STEEL PLATE- SEE STRUCTURAL
7.1	JOINT SEALANT
7.2	BACKER ROD AND SEALANT
7.6	2" RIGID WALL INSULATION
7.12	TERMINATION BAR
7.16	ACOUSTIC BATT INSULATION
7.22	E.I.F.S. VENEER
8.1	ALUMINUM STOREFRONT
8.2	ALUMINUM STOREFRONT DOOR
8.3	HOLLOW METAL DOOR
8.4	HOLLOW METAL FRAME
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.15	THRESHOLD
8.16	OVERHEAD COILING DOOR- MOTORIZED
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.6	6" METAL STUDS

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REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

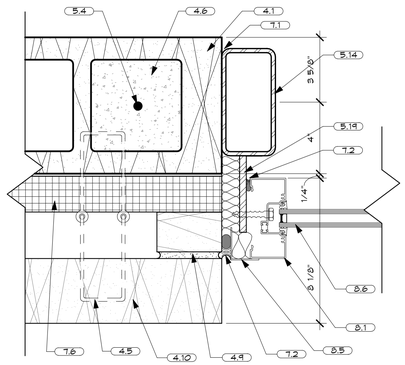
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

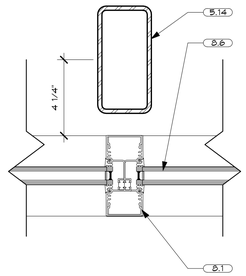
Sheet Title:
DOOR AND WINDOW DETAIL

Sheet:
A701

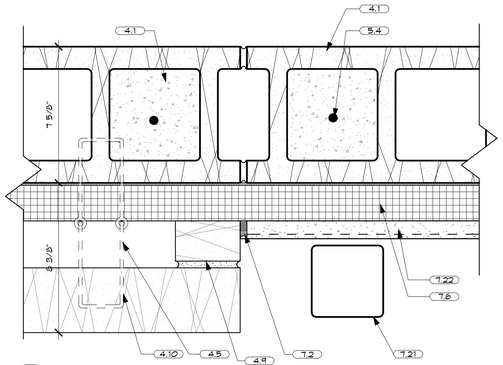
Of:



A4 / A702 — WINDOW JAMB DETAIL- MASONRY VENEER
3" = 1'-0"

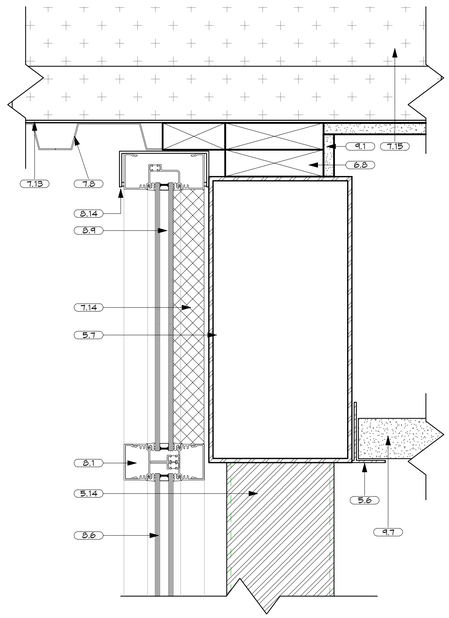


A3 / A702 — STEEL COLUMN TO WINDOW DETAIL
3" = 1'-0"

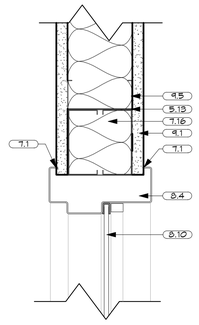


A2 / A702 — MASONRY VENEER TO EIFS DETAL
3" = 1'-0"

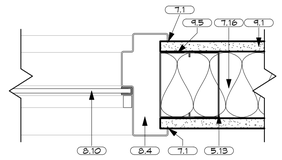
NOTES	
4.1	8" C.M.U.
4.5	MASONRY TIE
4.6	SOLID GROUT
4.9	MORTAR
4.10	4" BURNISHED BLOCK VENEER
5.4	STEEL REINFORCING
5.6	STEEL ANGLE- SEE STRUCTURAL DRWG.
5.7	STEEL TUBE- SEE STRUCTURAL
5.13	STEEL MISC. CHANNEL- SEE STRUCTURAL DRWG.
5.14	STEEL COLUMN- SEE STRUCTURAL DRWG.
5.16	STEEL PLATE- SEE STRUCTURAL
6.0	WOOD BLOCKING
7.1	JOINT SEALANT
7.2	BACKER ROD AND SEALANT
7.6	2" RIGID WALL INSULATION
7.8	METAL SOFFIT DECK- VENTED
7.13	VAPOR BARRIER
7.14	SPANDREL INSULATION
7.15	CELLULOSE INSULATION
7.16	ACOUSTIC BATT INSULATION
7.21	5" X 5" DOWNSPOUT
7.22	E.I.F.S. VENEER
8.1	ALUMINUM STOREFRONT
8.4	HOLLOW METAL FRAME
8.5	ALUMINUM BRAKE METAL
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.9	GLASS TYPE 4- CLEAR INSUL. TEMPERED SPANDREL GLASS
8.10	GLASS TYPE 6- CLEAR
8.14	ALUMINUM STOREFRONT DEFLECTION RECEPTOR
9.1	5/8" TYPE 'X' GYP. BD. IMPACT RESISTANT
9.5	3-5/8" METAL STUDS
9.7	TYPE 1 ACOUSTICAL CEILING TILE



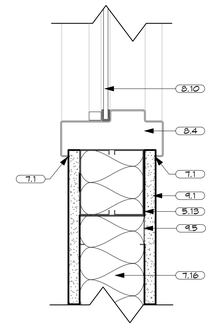
C5 / A702 — Detail 0
3" = 1'-0"



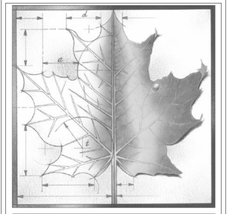
C4 / A702 — WINDOW HEAD - STOREFRONT OFFICE
3" = 1'-0"



C3 / A702 — WINDOW JAMB - STOREFRONT OFFICE
3" = 1'-0"



C2 / A702 — WINDOW SILL - STOREFRONT OFFICE
3" = 1'-0"



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MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

REV	DESCRIPTION	DATE

PATRICK A. SCHMIDT
ENGINEER
3975
7-7-17
KANSAS
PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

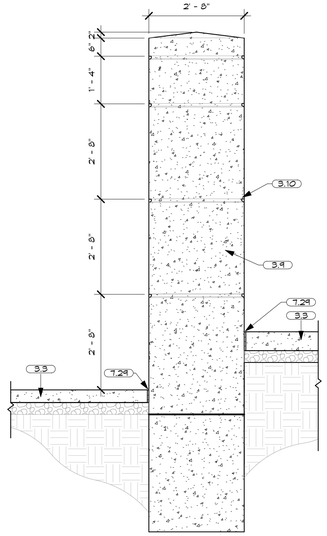
Project Address:
**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:
WINDOW DETAILS

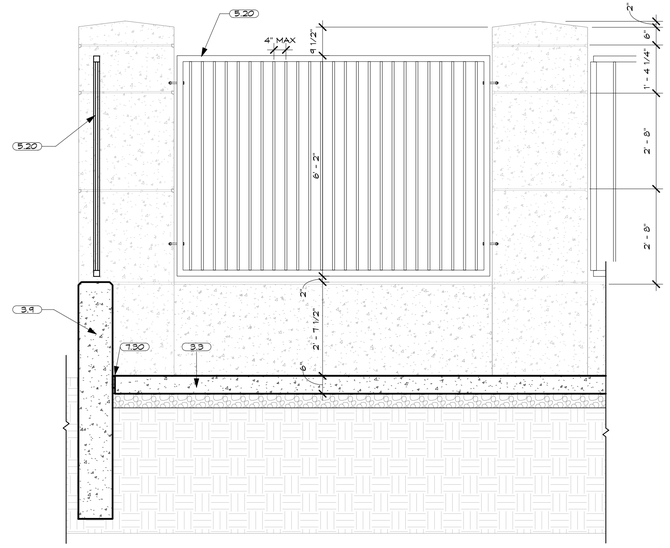
Sheet: **A702**

Of:

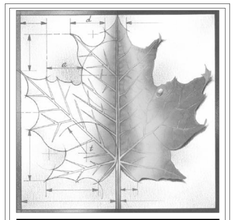
NOTES	
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
3.9	CAST-IN-PLACE CONCRETE
3.10	CONCRETE REVEAL- 1"
5.20	ALUMIMUM FENCE
7.29	EXPANSION JOINT- PAVEMENT
7.30	EXPANSION JOINT- WALL



D3 A703 Detail 4
1/2" = 1'-0"



D2 A703 Detail 3
1/2" = 1'-0"



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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
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REV	DESCRIPTION	DATE

PATRICK A. SPEARS
3975
7-7-2017
KANSAS
REGISTERED PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

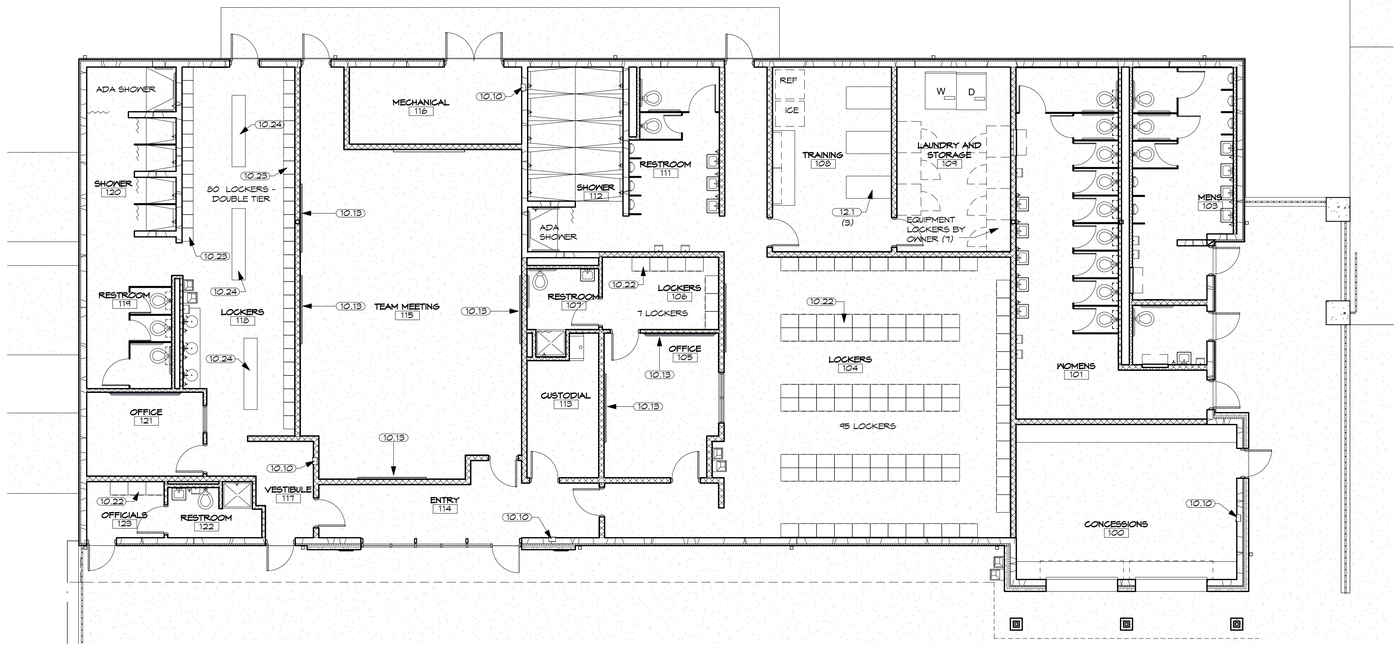
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
SITE DETAILS

Sheet: **A703**

Of:



NORTH

FLOOR PLAN- FURNISHINGS

1/8" = 1'-0"

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REV	DESCRIPTION	DATE

PATRICK A. SEAMAN
GENERAL
3975
7-7-17
KANSAS
REGISTERED PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

FURNISHING PLAN

Sheet:

A901

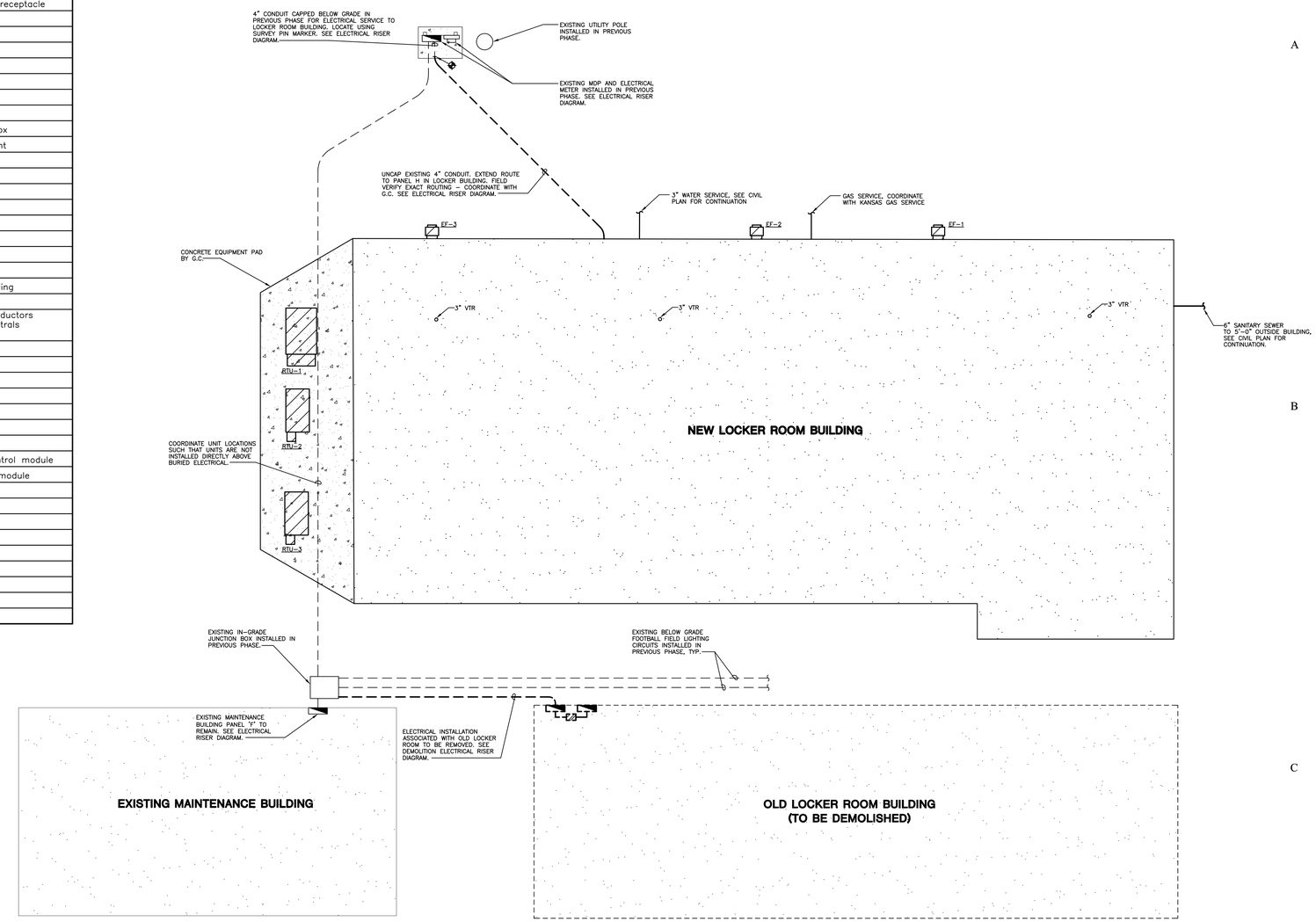
Of:

MECHANICAL SYMBOLS LEGEND

T	Thermostat
	90° Elbow down, round duct
	90° Elbow up, round duct
	Round duct offset
	Radius elbow
	90° Elbow down, rectangular supply duct
	90° Elbow up, rectangular supply duct
	90° Elbow down, rectangular return duct
	90° Elbow up, rectangular return duct
	Rectangular elbow with turning vanes
	Flexible duct
	Manual balancing damper
	Motorized damper
	Fire damper
	Smoke damper
	Combination fire/smoke damper
	Ceiling supply air diffuser
	Ceiling return air grille
	Sidewall supply air diffuser
	Sidewall return air grille
	Supply air slot diffuser
	Round tap in bottom of duct
	Rectangular tap in bottom of duct
D	Condensate drain
C	Cold water
H	Hot water
T	Tempered water
R	Recirculated water
RT	Recirculated tempered water
G	Natural gas
	Sanitary waste above grade
	Sanitary waste below grade
	Sanitary vent
VTR	Vent through roof
	Plumbing trap
	Pipe turning down
	Pipe turning up
	Shock arrestor
	Ball valve
	Gas cock
	Union
	Temperature/pressure relief valve
	Strainer
	Aquastat
	Thermometer in well
	Temperature sensor in well
	Connection of new to existing
e	Existing device
TYP	Typical
A.F.F.	Above finished floor
U.N.O.	Unless noted otherwise
N.I.C.	Not in contract
G.C.	General Contractor

ELECTRICAL SYMBOLS LEGEND

	Duplex receptacle
GFI	Ground fault interrupting duplex receptacle
CT	Countertop duplex receptacle
WP	Weatherproof duplex receptacle
	Four-plex receptacle
Y	Special receptacle as noted
	Data box
CT	Countertop data box
J	Flush junction box
J	Surface or concealed junction box
	Electrical connection to equipment
S	Single pole switch
S3	Three-way switch
S4	Four-way switch
SM	Manual motor starter
SR	Relay switch
	Electrical disconnect switch
	Motor starter
	Electrical motor
	Conduit concealed in wall or ceiling
	In-floor conduit
G H N	Homerun to panelboard with conductors as indicated. Do not share neutrals unless noted otherwise.
	Panelboard
	Transformer
	Electrical meter
	Fire alarm horn/strobe
P	Fire alarm pull station
D	Fire alarm duct smoke detector
T	Fire alarm test switch
R	Fire alarm relay/addressable control module
M	Fire alarm addressable monitor module
V	Fire alarm strobe
FACP	Fire alarm control panel
e	Existing device
C\B	Circuit breaker
U.N.O.	Unless noted otherwise
A.F.F.	Above finished floor
N.I.C.	Not in contract
TYP	Typical
G.C.	General Contractor



NORTH

MEP SITE PLAN

1" = 10'-0"

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REVISIONS:

1.
2.
3.
4.
5.
6.

THOMAS C. ORAZEM LICENSED [1137] 07/07/2017 KANSAS PROFESSIONAL ENGINEER

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:

4290 Columbian Road Wamego, KS

Sheet Title:

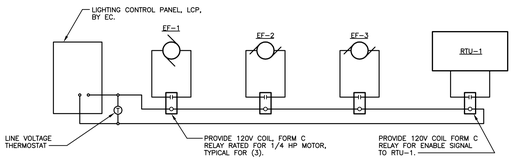
MEP SITE PLAN

Sheet: **ME101**

Of: **12**

Job No. 15011-1

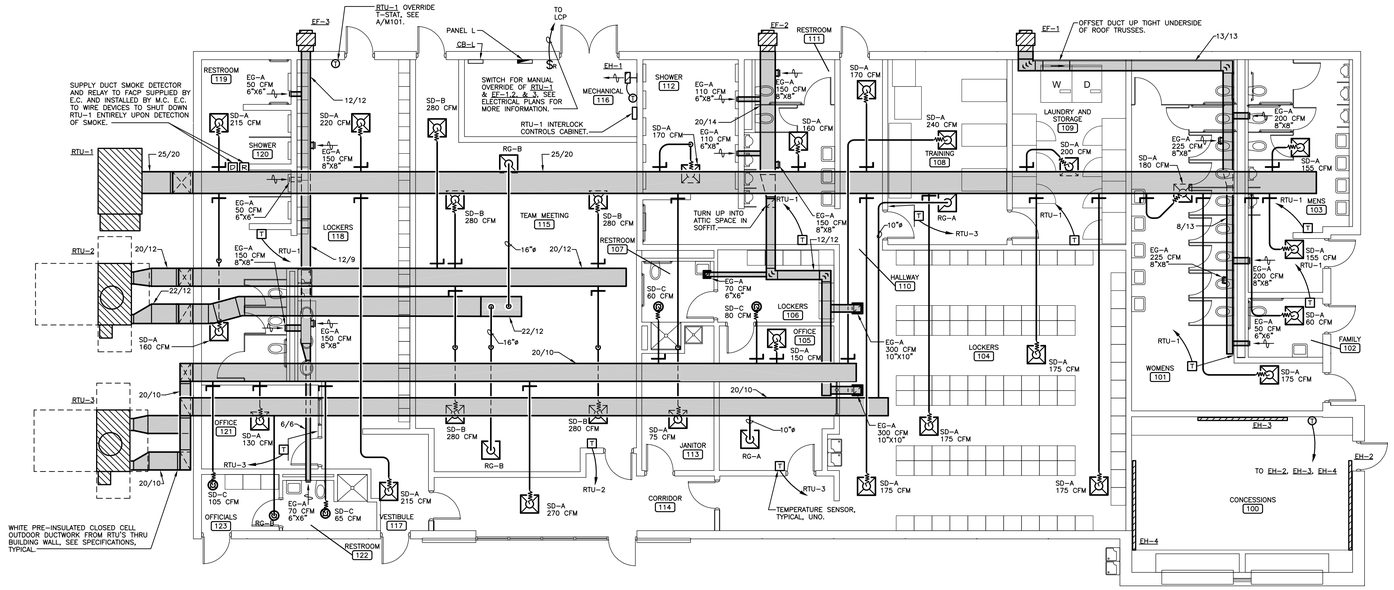
ORAZEM & SCALORA ENGINEERING, P.A.
Manhattan, Kansas



SEQUENCE OF OPERATION:

1. Interlock all exhaust fans and RTU-1 such that based on either a time of day occupancy schedule, or manual override activation of a light switch in any restroom, manual override from switch in mechanical 116 or locker room space, all (3) exhaust fans shall start and RTU-1 fan shall start and heating shall modulate based on the sequence below. Coordinate programming of manual override switch and occupancy schedule with E.C.
2. Heating:
   a. RTU-1 shall modulate gas heating to maintain a setpoint of 70F (adj.) based on base on the average space temperature value returned from (6) temperature sensors. Override control from lighting control panel with signal from line voltage thermostat set to 50°F (adj.) for emergency heating operation.
3. Alarms: All room temperature outside of user defined limits, fan failure, deviation of any temperature from setpoint for an adjustable time span, filter dirty.

A RTU-1 EXHAUST FAN INTERLOCK & OVERRIDE DIAGRAM
NOT TO SCALE



GENERAL NOTES

1. Coordinate main ductwork routes with roof trusses and route between truss webs.
2. Coordinate branch duct run-outs with roof truss locations and route between trusses.

NORTH

FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

ELECTRIC HEATER SCHEDULE

Mark	EH-1	EH-2,3,4
Type	Unit Heater	Cove Heater
Airflow	Horizontal Blow	Radiant
Watts	3,300	1,250
Voltage	277	240
Phase	1	1
BASED ON: (Raywall)	H1H5103N	CV125X

Notes:
1. Provide unit with wall mounting bracket.
2. Provide unit with accessories needed for wall mounted thermostat.
3. Provide unit with 240V line voltage thermostat rated for load.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2	EF-3
DUTY	EXHAUST	EXHAUST	EXHAUST
AREA SERVED	SEE PLANS	SEE PLANS	SEE PLANS
TYPE	SIDEWALL	SIDEWALL	SIDEWALL
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
CFM	900	1,190	620
EXT. S.P.("WG)	0.50	0.50	0.50
TYPE DRIVE	DIRECT	DIRECT	DIRECT
DESIGN HP OR (WATTS)	1/4	1/4	1/4
MOTOR RPM	1,579	1,671	1,303
MAX. SONES	9.9	11.3	6.9
ACCESSORIES	1,2,3	1,2,3	1,2,3
VOLTAGE/PHASE	120/1	120/1	120/1
BASED ON: (GREENHECK)	CW-099-A	CW-101-A	CW-099-A

ACCESSORY KEY:
1. Provide with backdraft damper.
2. Provide with factory mounted and wired disconnect.
3. Provide unit mounted solid state speed control.

AIR DEVICE SCHEDULE

All devices shall be supplied in white finish suitable for field painting.

SD-A EH Price AMD/6/4A aluminum louvered flush face diffuser, 24" square face, round neck, gasketed beveled frame. Blow pattern is 4-way unless indicated otherwise.

CFM Range	Max. APD	Max. NC	Neck Dia.
0-110	0.10	30	6"
111-200	0.10	30	8"
201-300	0.10	30	10"
301-400	0.10	30	12"
401-535	0.10	30	14"

Unless noted otherwise, runouts to diffusers shall be same size as neck.

SD-B EH Price AMD/3P/4A aluminum louvered flush face diffuser, 24" square face, round neck, to lay into T-bar ceiling. Blow pattern is 4-way unless indicated otherwise.

CFM Range	Max. APD	Max. NC	Neck Dia.
0-110	0.10	30	6"
111-200	0.10	30	8"
201-300	0.10	30	10"
301-400	0.10	30	12"
401-535	0.10	30	14"

Unless noted otherwise, runouts to diffusers shall be same size as neck.

RG-A EH Price AMD/3P aluminum louvered flush face return grille with 12" square neck, 24" square face, gasketed beveled frame. Neck size as indicated on drawings.

RG-B EH Price AMD/3P aluminum louvered flush face return grille with 12" square neck, 24" square face, to lay into T-bar ceiling. Neck size as indicated on drawings.

EG-A EH Price 630/L extruded aluminum louvered exhaust air grille with 1-1/4" screwed border and gasketed frame. Size as indicated on drawings.

ROOF TOP UNIT SCHEDULE

ROOF TOP UNIT	RTU-1	RTU-2	RTU-3
TYPE	HEATING	HEATING/COOLING	HEATING/COOLING
SERVES	NORTH	TEAM MEETING	OFFICES
CONFIGURATION	DOWNFLOW	HORIZONTAL DISCHARGE	HORIZONTAL DISCHARGE
CFM	3,000	1,400	1,100
EXT. S.P.("WG)	0.75	0.75	0.75
MINIMUM O.A. CFM	3,000	650	380
HEATING FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS
MAXIMUM HEATING INPUT (MBH)	390	140	100
MINIMUM HEATING OUTPUT (MBH)	315.9	113.4	81
HEATING STAGES	MODULATING	1	1
REFRIGERANT	–	R-410A	R-410A
EVAP. E.A.T. DB/WB (F)	–	87.07/68.49	83.98/66.91
CONDENSER E.A.T. DB(F)	–	105	105
NET SENSIBLE COOLING CAPACITY (MBH)	–	43.75	33.96
NET TOTAL COOLING CAPACITY (MBH)	–	55.65	44.23
SUPPLY AIR FAN RPM (or speed)	1,170	1,589	1,650
SUPPLY FAN HP	2	1	1
SUPPLY FAN DRIVE TYPE	DIRECT	DIRECT	DIRECT
CONDENSER FAN HP	–	0.333	0.333
NO. COMPRESSORS	–	1	1
COMPRESSOR FLA (EACH)	–	25.6	21
TOTAL COOLING F.L.A.	14	40	31
MINIMUM CIRCUIT AMPS	17	47	36
MAXIMUM HACR CIRCUIT BRKR. AMPS	25	70	50
FILTERS	2" DISPOSABLE	2" DISPOSABLE	2" DISPOSABLE
VOLTAGE/PHASE	240/1	240/1	240/1
MINIMUM EER (SEER)	–	12.4	13.3
APPROXIMATE WEIGHT INCLUDING CURB, & ACCESSORIES (LBS)	1,300	1,200	1,150
BASED ON: (AAON)	RN-013-3-0-0000-369	RQ-005-1-H-EA09-359	RQ-004-1-H-EA09-339

NOTES:
1. Provide each RTU with a flexible connection at supply and return duct connections and transition as required to duct size.
2. Provide RTU-2 and RTU-3 with modulating hot gas reheat for dehumidification.
3. Provide each RTU with factory installed and wired NEMA 3R disconnect switch.
4. Provide each RTU with factory installed and wired weatherproof GFI NEMA 5-15 receptacle.
5. Provide RTU-1 with 7-day programmable combination thermostat and humidistat.
6. Equip each unit with complete integral control system for thermostat.
7. Install supply air duct smoke detector, provided by Electrical Contractor, in RTU's over 2,000 cfm of supply air. Detector shall be circuited to shut down unit entirely upon detection of smoke.
8. Provide RTU-2 and RTU-3 with 14" high insulated curb compatible with pad mounting on grade.
9. Provide RTU-1 with curb compatible with pad mounting on grade and for horizontal discharge of ductwork from unit through curb.
10. Provide RTU-2 and RTU-3 with factory provided and field installed hail guards.
11. Provide RTU-1 & RTU-3 averaging temperature sensors. Quantities shown on drawings.

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KS 66502
PH: 785-776-4912
WWW.BBNARCHITECTS.COM

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1
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THOMAS C. ORAZEM LICENSED ARCHITECT 11371 7/07/2017 KANSAS PROFESSIONAL ENGINEER

Project Number: 16036
Date: 7/7/17
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS
Project Address:
4290 Columbian Road Wamego, KS

Sheet Title:
MECHANICAL PLAN

Sheet: M101
Of: 8

ORAZEM & SCALORA ENGINEERING, P.A.
Manhattan, Kansas
Job No. 15011-1

LIGHTING CONTROL PANEL SCHEDULE

PANEL DESIGNATION: LCP
LOCATION: Mech 116
VOLTS: 120
MOUNTING: Surface
ENCLOSURE NEMA 1

FEATURES:
- Integral Astronomical Timeclock
- SPST 20 amp independently programmable relays
- Keypad with LCD display
- Equivalent to Wattstopper LP8
- Programmable Group Switching

RELAY#	CKT.	Description	LV Switch / Sensor	Channel	Load (VA)
1	L-56	Mech 116	Timeclock/Switch	A	164
2	L-58	West Interior Lighting	Timeclock/Switch	A	1,742
3	L-60	East Interior Lighting	Timeclock/Switch	A	1,673
4	L-62	Concessions	Timeclock/Switch	A	423
5	L-64	Exterior Facade Lighting	Timeclock	B	209
6	L-45	Mechanical Equipment	Timeclock/Switch	C	150
7					
8					

Notes:
1. See plans for low voltage (LV) switch and sensor locations.
2. Provide all low voltage control circuitry between low voltage controls and panel.

Channel Schedule
- **A.** Lights shall be Timeclock on/off with manual override, manual 2-hour override during vacancy.
- **B.** Lights shall be turned on/off by adjustable input from astronomical time clock.
- **C.** Mechanical equipment activation with Timeclock and manual 2-hour override with light keypad activation from either relay 1 or 2 during vacancy. Manual override of mechanical equipment via low-voltage switch in Mech Room 116.

LIGHTING CONTROL DEVICE SCHEDULE

MARK	MANUF.	DESCRIPTION	MOUNTING
RC	Watt Stopper	LMRC-101 Series Digital On/Off room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling
KP	Watt Stopper	LMSW-104 Series 4-Button wall switch.	Switch Box

NOTES:
1. Install occupancy and light level sensors per manufacturer's recommendations.
2. Provide relays, power supplies, and circuitry for complete operation of sensors.
3. Set time delays - 120 minutes.

KEYPAD BUTTON SCHEDULE

Room	Control Zone(s)	Rm. Controller	Switch	Occ. Sensor	Control Type
115 - Team Meeting	1	LMRC-101	LMSW-104	-	A

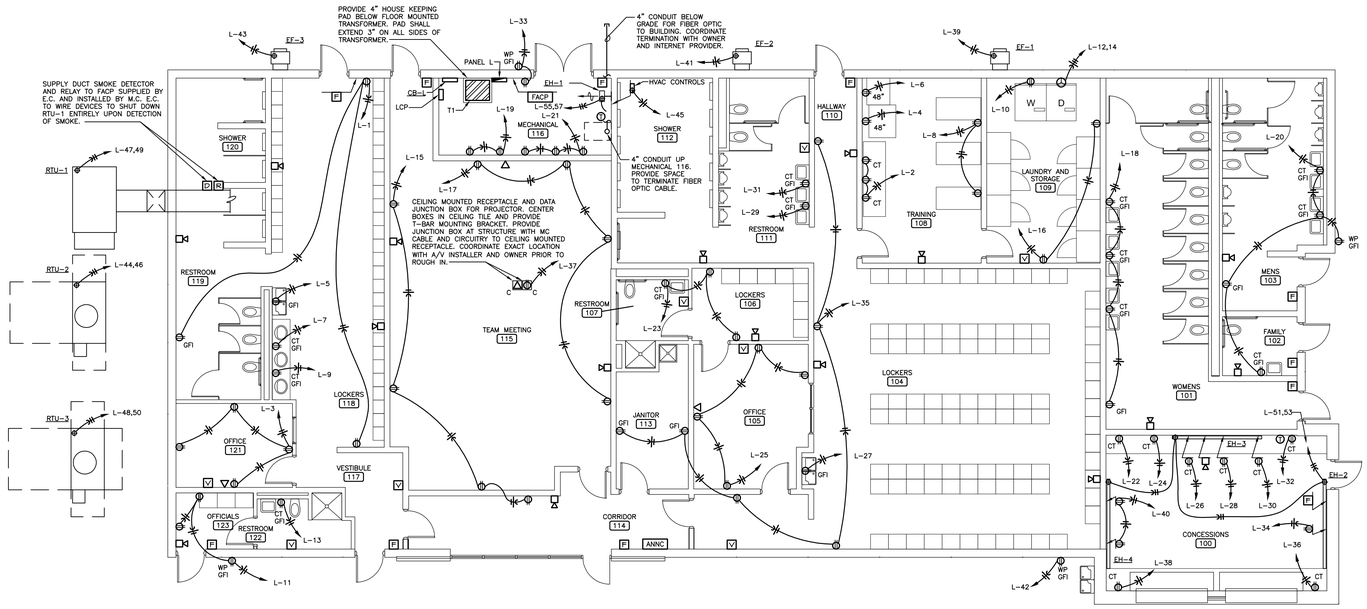
Control Type:
A Manual On/Off/Dim by Occupant, Timeclock Off with Manual Override

Notes:
1. Each keypad should have (1) button for on/hold to raise, (1) off/hold to dim, (1) dimming preset all fixtures 33%, and (1) dimming preset all fixtures 67%.

LIGHTING FIXTURE SCHEDULE

MARK	SIZE	MANUF.	DESCRIPTION	LAMPS
A	2' x 4'	Williams	Series PT shallow plenum LED lay-in troffer with die-formed 22 gauge cold rolled steel, diffuse ribbed acrylic, highly reflective non-glare matte white polyester powder coat finish, and electrical access from room-side to allow for service and/or cleaning without removing fixture from ceiling grid. Provide fixture with 4,000K lumen package producing 5,997 delivered lumens at 54 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 54W
B	7-3/8" W x 4-1/2" H x 51-7/8" L	Williams	Series 96 LED fully enclosed and gasketed industrial surface mount fixture with polycarbonate toggle latches, closed-cell polyurethane gasket, 5VA (f1) fiberglass exterior enclosure with aluminum internal housing, frosted and ribbed UV stabilized polycarbonate shielding, and electronic driver prewired for non-dimming applications. Provide fixture with 4,000K lumen package producing 4,700 nominal lumens at 40 watts.	LED 40W
C1	2-13/16" H x 8-1/2" W x 4' L	Williams	Series ASM Architectural Surface Mount LED with 0.040" die-formed aluminum housing with die-cast decorative end caps, ribbed acrylic diffuser, and textured matte white polyester powder coat finish. Provide fixture with 4,000K lumen package producing 2,500 nominal lumens at 24 watts, and rated for 50,000 hours at 85% lumen maintenance (L85).	LEDs 24W
C2	2-13/16" H x 8-1/2" W	Williams	Similar to type 'C1' except to be provided with 4,000K lumen package producing 4,600 nominal lumens at 47 watts.	LEDs 47W
D	2-3/4" W x 3-1/4" D x 48" L	Williams	Series 75L lensed LED strip fixture with 22 ga. cold rolled steel housing, all parts painted to a minimum 92% average reflectance, and 0.125" thick acrylic frosted lens. Provide all necessary hardware to surface mount or chain hang fixture as required, and 11-gauge white powder coated wireguard where indicated on plans. Provide fixture with 4,000K lumen package producing 3,800 nominal lumens at 41 watts, an electronic driver prewired for non-dimming applications, and rated for 50,000 hours at 70% lumen maintenance.	LEDs 41W
E	12-1/2" x 5-1/2" x 5-7/8" D	Mule	Series MRD-HO wall mounted emergency light with white thermoplastic housing, 6 volt DC output, rated for 54 watts at 1.5 hours, solid-state battery charger, sealed maintenance free lead-calcium battery, equipped with two low profile adjustable heads and wall mounting bracket. Provide circuitry for and connect to unswitched power from lighting circuit serving the same area as emergency light.	2-12W MR-16
E1	9-1/16" x 6-5/16" x 4" D	Mule	Series MERU wall mounted architectural, low-profile LED with 'normally on' and emergency operation lighting, die-cast aluminum housing and heat sink, scratch resistant polyester powder coat finish in color to be selected by Architect, UV resistant polycarbonate lens, and neoprene seal for weatherproof installation. battery heater rated for -40°F to 122°F at 32 watts for 90 minutes. Provide 3,000K lumen package producing 1,600 lumens in AC operation, and 600 lumens in emergency operation. Provide circuitry for and connect to unswitched power from lighting circuit serving same area as emergency light.	LEDs 15.2W
E2	9-1/16" x 6-5/16" x 4" D	Mule	Similar to fixture type 'E2' except provide fixture for emergency operation only.	LEDs 15.2W
F	6" dia.	Spectrum	Series RDFI6LEDXT 6" LED shower light with 20 gauge die formed galvanized housing and frame, aluminum heat sink, semi-diffuse finish, UL listed for damp locations, IC rated, and minimum 83 CRI. Provide fixture with 4,000K lumen package producing 1,000 nominal lumens at 11.1 watts.	LEDs 11.1W
G	6" dia.	Williams	Series ICL60 6" recessed round LED downlight with 22-gauge galvanized steel housing, aluminum heat sink, clear semi-specular reflector, powder coat finish, rated for direct contact to insulation, 55,000 hours at 70% lumen maintenance and minimum 80 CRI. Provide fixture with 3,500K lumen package producing 1,000 lumens at 15 watts, and an electronic driver with 0-10V dimming capability. Provide all hardware required to mount in building soffit.	LEDs 15W
H	8-3/8"H x 4-5/8"W x x 6" dia.	Lumen Pulse	Series Lumen Beam small white grade mounted LED building facade light with low copper content high pressure die-cast aluminum housing, heavy aluminum formed yoke, stainless steel hardware, silicone sealing devices, clear tempered glass lens and polyester powder coat finish. Provide fixture with white 3,500K LEDs with flood optic, producing 639 lumens at 14 watts, Snoot(LBL), and an electronic driver. Finish selected by Architect.	LEDs 14W
X	12-3/4" x 8-1/2"	Mule	Series Classic emergency powered exit light with red letters, vandal resistant die-cast aluminum housing, universal chevrons, 100 ft. visibility, all required mounting hardware, sealed NiCd emergency power battery rated for 90 minutes, integral solid state battery charger, one or two faces as indicated on plans, wall or ceiling mount as indicated on plans. Provide circuitry for and connect to unswitched power from lighting circuit serving same area as exit light.	LED

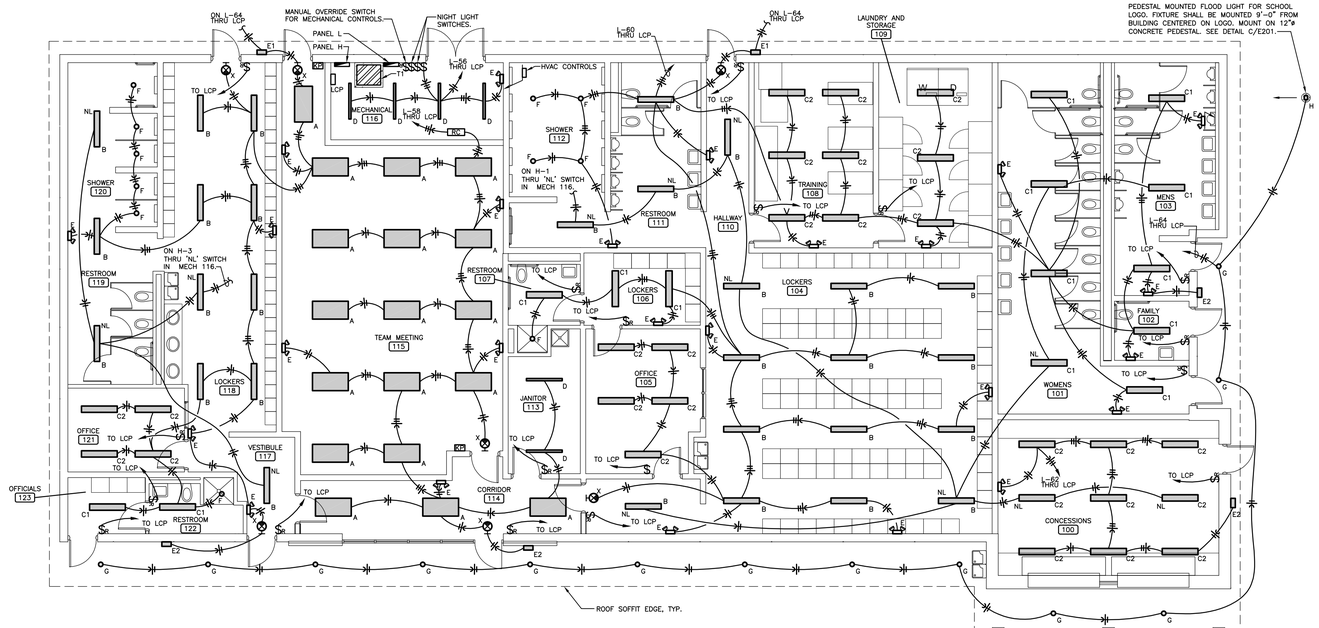
NOTES:
1. All fixtures to be provided for 120 volt AC operation unless noted otherwise.
2. Coordinate mounting heights of all wall mounted fixtures with Architect prior to roughing in.



NORTH

FLOOR PLAN - POWER

1/8" = 1'-0"



NORTH

FLOOR PLAN - LIGHTING

1/8" = 1'-0"

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KS 66502
PH: 785-776-4912
WWW.BBNARCHITECTS.COM

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ELECTRICAL EQUIPMENT SCHEDULE

TRANSFORMERS

Mark	KVA	Mounting	Secondary Conductors	GEC
T1	100	Floor	3#500,#3G	#1/0

Dry type transformer for indoor installation, U.L. listed, compliant with IEEE, NEMA and ANSI standards, single phase, 60 hertz, 480 volt primary 240/120 volt secondary, (6) 2-1/2% full capacity taps, 150 degree C temperature rise, ventilated enclosure and internal vibration isolation core mounting. Provide NEC compliant signage for transformers served by remote disconnects.

ENCLOSED CIRCUIT BREAKERS

Mark	Voltage	Poles	Ampacity	Enclosure
CB-L	480	2	300	NEMA 1

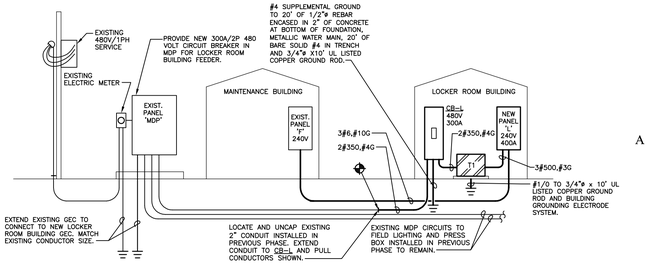
Enclosed circuit breaker shall have dual rated cable lugs and be equipped with a neutral terminal and grounding lug. Minimum AIC of 25,000 for 240 volts and 18,000 for 480 volts. Equivalent to Square D LAL,

BRANCH CIRCUIT PANELBOARD SCHEDULE

PANEL DESIGNATION: PANEL 'L'
LOCATION: Mech 116
VOLTS: 120/240
CONFIGURATION: 1 Phase/3 Wire
MOUNTING: Surface
MIN A.I.C.: 10,000
MCB Amps: 400
BUS Amps: 400
ENCL.: NEMA 1
FEATURES:
- Panelboard Construction
- Equipment Ground Bus
- Equal to Square D NQ

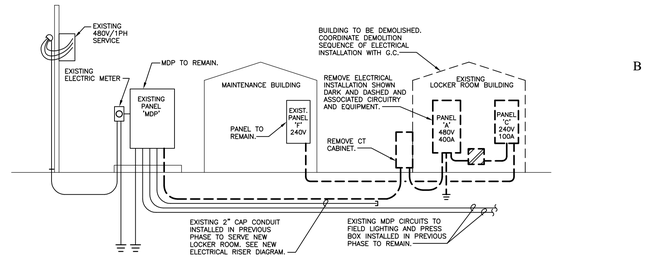
CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B
1	Rcpt – Rooms 118, 119	2#12,#12G	20/1	2	Rcpt – Training 108 West	2#12,#12G	20/1
3	Rcpt – Office 121	2#12,#12G	20/1	4	Rcpt – Ice Machine	2#12,#12G	20/1
5	Rcpt – Electric Water Cooler	2#12,#12G	20/1	6	Rcpt – Refrigerator	2#12,#12G	20/1
7	Rcpt – Locker 118	2#12,#12G	20/1	8	Rcpt – Training 108 East	2#12,#12G	20/1
9	Rcpt – Locker 118	2#12,#12G	20/1	10	Rcpt – Washer	2#12,#12G	20/1
11	Rcpt – Officials 123	2#12,#12G	20/1	12	Rcpt – Dryer	2#12,#12G	30
13	Rcpt – Restroom 122	2#12,#12G	20/1	14			2
15	Rcpt – Team Meeting 115 West	2#12,#12G	20/1	16	Rcpt – Laundry, Storage 109	2#12,#12G	20/1
17	Rcpt – Team Meeting 115 East	2#12,#12G	20/1	18	Rcpt – Womens 101	2#12,#12G	20/1
19	Rcpt – Mechanical 116 West	2#12,#12G	20/1	20	Rcpt – Rooms 102, 103	2#12,#12G	20/1
21	Rcpt – Mechanical 116 East	2#12,#12G	20/1	22	Rcpt – Concessions 100 NWC	2#12,#12G	20/1
23	Rcpt – Rooms 106, 107	2#12,#12G	20/1	24	Rcpt – Concessions 100 NWC	2#12,#12G	20/1
25	Rcpt – Office 105	2#12,#12G	20/1	26	Rcpt – Concessions 100 NWC	2#12,#12G	20/1
27	*Rcpt – Electric Water Cooler	2#12,#12G	20/1	28	Rcpt – Concessions 100 NEC	2#12,#12G	20/1
29	Rcpt – Restroom 111 South	2#12,#12G	20/1	30	Rcpt – Concessions 100 NEC	2#12,#12G	20/1
31	Rcpt – Restroom 111 North	2#12,#12G	20/1	32	Rcpt – Concessions 100 NEC	2#12,#12G	20/1
33	Rcpt – Mechanical 116 North	2#12,#12G	20/1	34	Rcpt – Concessions 100 SEC	2#12,#12G	20/1
35	Rcpt – Rooms 104, 113	2#12,#12G	20/1	36	Rcpt – Concessions 100 E Wall	2#12,#12G	20/1
37	Rcpt – Projector Room 115	2#12,#12G	20/1	38	Rcpt – Concessions 100 SWC	2#12,#12G	20/1
39	EF-1	2#12,#12G	15/1	40	Rcpt – Concessions 100 W Wall	2#12,#12G	20/1
41	EF-2	2#12,#12G	15/1	42	Rcpt – South Exterior	2#12,#12G	20/1
43	EF-3	2#12,#12G	15/1	44	RTU-2	2#6,#10G	45
45	HVAC Controls	2#12,#12G	20/1	46			2
47	RTU-1	2#10,#10G	25	48	RTU-3	2#6, #10G	60
49			2	50			2
51	EH-2, EH-3, EH-4	2#12,#12G	20	52	Existing Panel F	3#6,#10G	60
53			2	54			2
55	EH-1	2#12,#12G	20	56	Ltg – Mech 116	2#12,#12G	20/1
57			2	58	Ltg – West Interior	2#12,#12G	20/1
59	Spare	---	20/1	60	Ltg – East Interior	2#12,#12G	20/1
61	Spare	---	20/1	62	Ltg – Concessions	2#12,#12G	20/1
63	Spare	---	20/1	64	Ltg – Exterior Facade	2#12,#12G	20/1
65	Spare	---	20/1	66	Spare	---	20/1
67	Spare	---	20/1	68	Spare	---	20/1
69	Spare	---	20/1	70	Spare	---	20/1
71	Spare	---	20/1	72	Spare	---	20/1

NOTES:
* = Provide GFCI protected circuit breaker



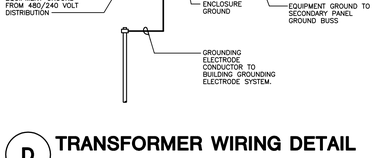
A

A ELECTRICAL RISER DIAGRAM
NOT TO SCALE

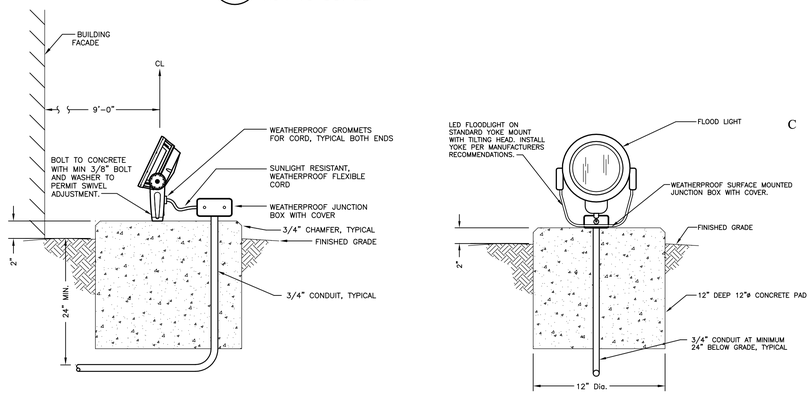


B

B DEMOLITION ELECTRICAL RISER DIAGRAM
NOT TO SCALE



D TRANSFORMER WIRING DETAIL
NOT TO SCALE



C

C FLOOD LIGHT MOUNTING DETAIL
NOT TO SCALE

D

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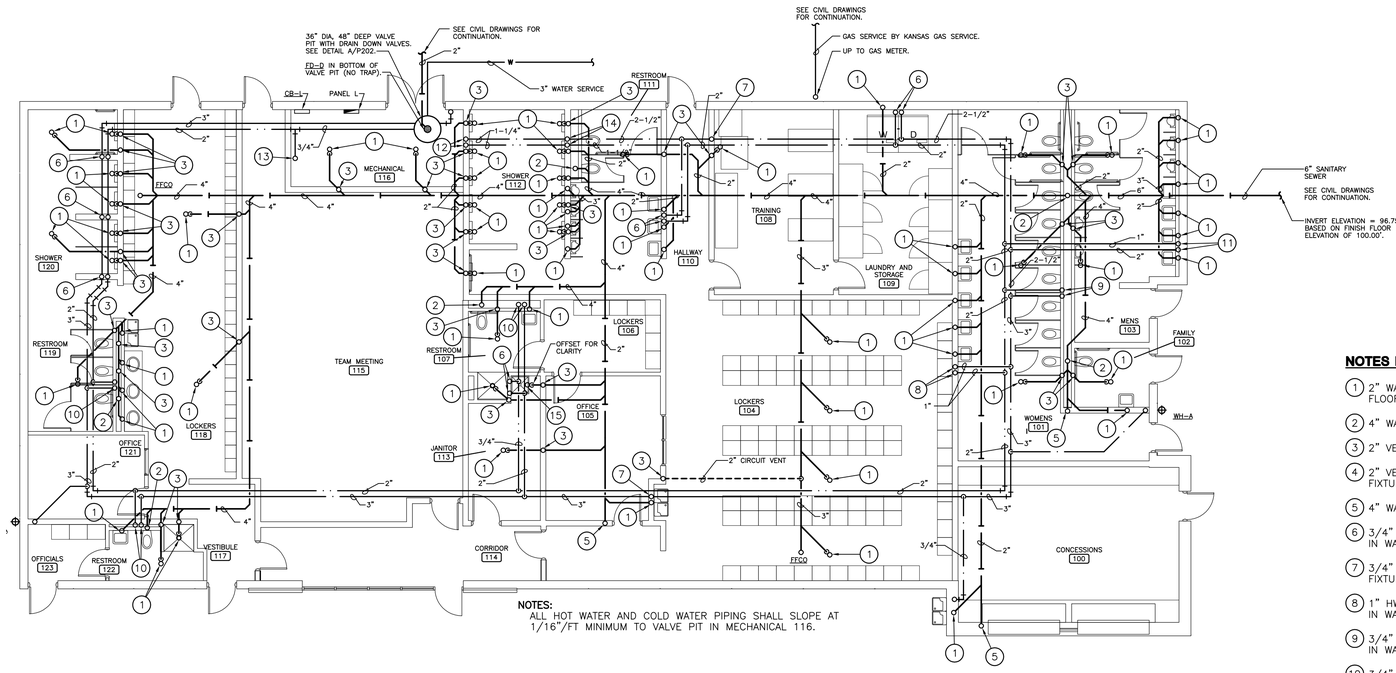
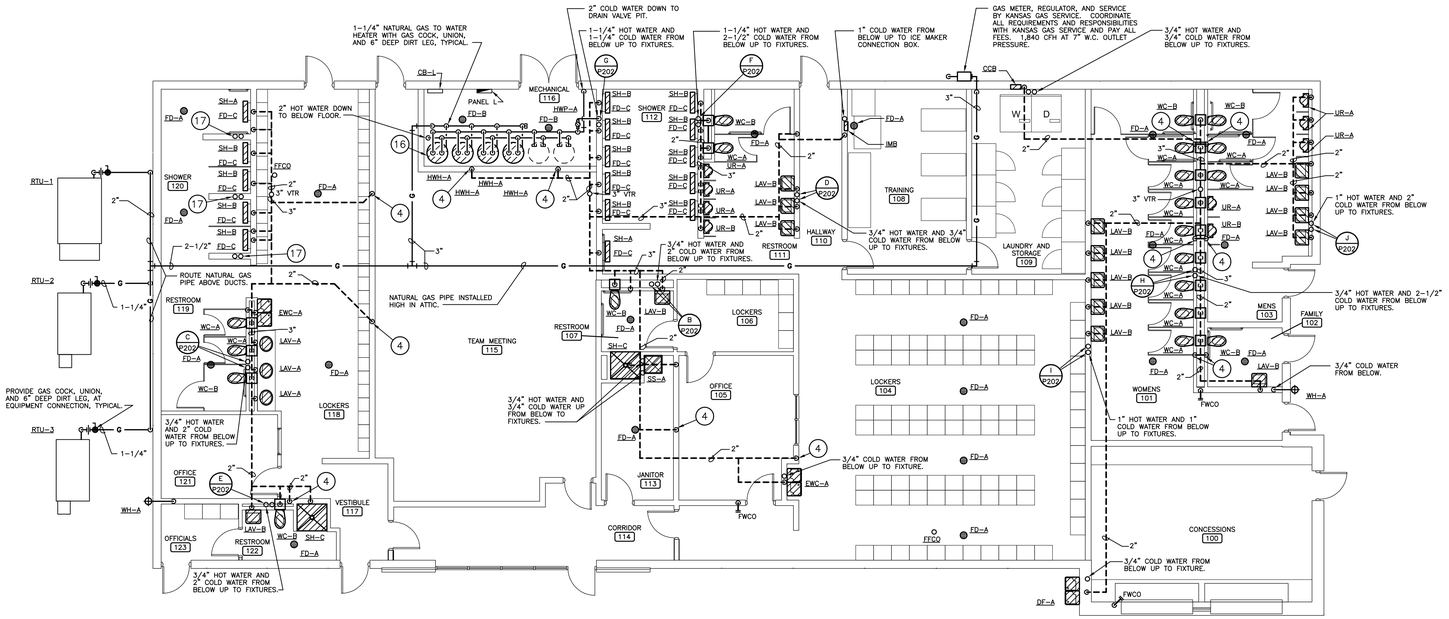


NOTES:
ALL HOT WATER AND COLD WATER PIPING SHALL SLOPE AT 1/16"/FT MINIMUM TO VALVE PIT IN MECHANICAL 116.

NORTH

UNDER FLOOR PLUMBING PLAN
1/8" = 1'-0"



NORTH

PLUMBING FLOOR PLAN
1/8" = 1'-0"

NOTES BY SYMBOLS

1. 2" WASTE FROM FIXTURE OR FLOOR DRAIN ABOVE.
2. 4" WASTE UP TO FIXTURE(S) ABOVE.
3. 2" VENT UP.
4. 2" VENT FROM FLOOR DRAIN OR FIXTURE(S) BELOW.
5. 4" WASTE UP TO FWCO.
6. 3/4" HW AND 3/4" CW UP IN WALL TO FIXTURES ABOVE.
7. 3/4" CW UP IN WALL TO FIXTURE ABOVE.
8. 1" HW AND 1" CW UP IN WALL TO FIXTURES ABOVE.
9. 3/4" HW AND 2-1/2" CW UP IN WALL TO FIXTURES ABOVE.
10. 3/4" HW AND 2" CW UP IN WALL TO FIXTURES ABOVE.
11. 1" HW AND 2" CW UP IN WALL TO FIXTURES ABOVE.
12. 1-1/4" HW AND 1-1/4" CW UP IN WALL TO FIXTURES ABOVE.
13. 2" HOT WATER UP.
14. 1-1/4" HW AND 2-1/2" CW UP IN WALL TO FIXTURES ABOVE.

    3" WASTE FROM FIXTURE ABOVE.
16. PROVIDE MANUFACTURER PROVIDED CONCENTRIC VENT FOR WATER HEATERS. ROUTE COMBUSTION INTAKE AND EXHAUST PIPING THROUGH ATTIC TO ROOF DIRECTLY ABOVE WATER HEATER. INSTALL ALL CONCENTRIC VENTS LEVEL AND EQUALLY SPACED, TYPICAL FOR (4).
17. 3/4" HOT WATER AND 3/4" COLD WATER FROM BELOW TO FIXTURE(S).

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PLUMBING FIXTURE MINIMUM ROUGH-IN SIZE SCHEDULE

FIXTURE/DESIGNATION	WASTE	VENT	COLD WTR.	HOT WTR.
FLUSH VALVE WATER CLOSET/WC-A,B	4"	2"	1"	---
URINAL/UR-A,B	2"	2"	3/4"	---
LAVATORY/LAV-A,B	2"	2"	1/2"	1/2"
SHOWER/SH-A,B,C	2"	2"	1/2"	1/2"
SERVICE SINK/SS-A	3"	2"	1/2"	1/2"
ELECTRIC WATER COOLER/EWC-A	2"	2"	1/2"	---
DRINK FOUNTIAN/DF-A	2"	2"	1/2"	---
CLOTHESWASHER CONNECTION BOX/CCB	2"	2"	1/2"	1/2"
ICE MAKER BOX/IMB	---	---	1/2"	---
WALL HYDRANT/WH-A,B	---	---	3/4"	---
HOSE BIBB/HB-A	---	---	3/4"	---
FLOOR DRAIN/FD-A,B,C,D	2"	2"	---	---

PLUMBING EQUIPMENT SCHEDULE

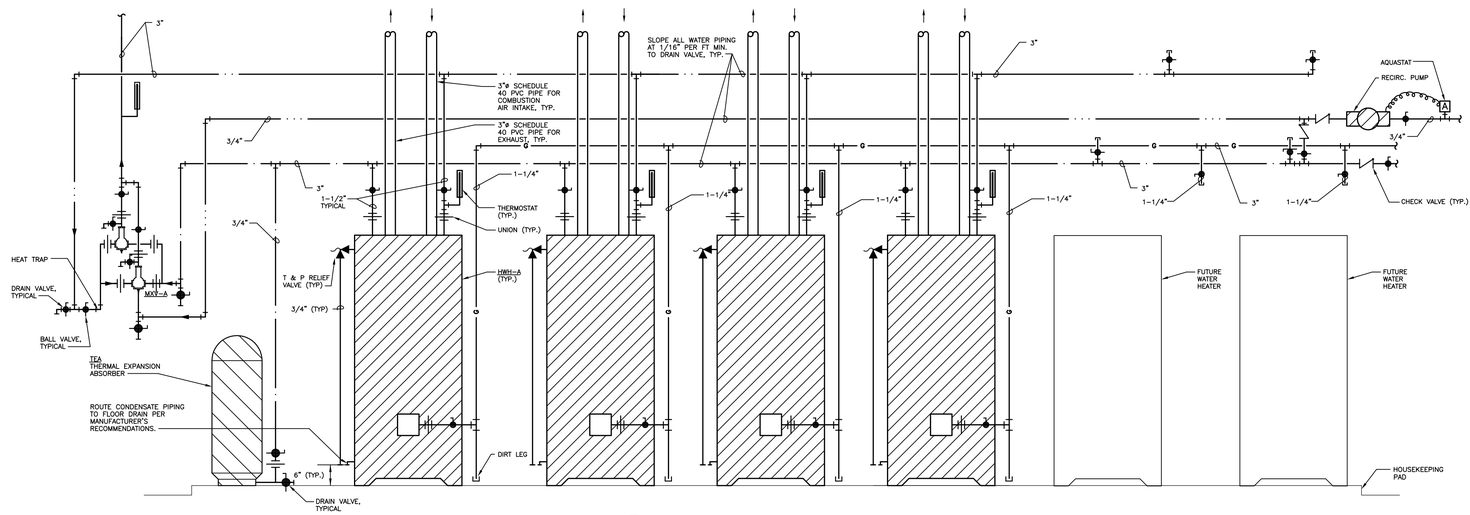
General Notes:

1. For fixtures marked (ADA), fixture, trim, mounting dimensions and installation shall meet the requirements of the 2010 Americans With Disabilities Act.
2. Coordinate fixture locations with Architectural plans and elevations prior to rough-in.
3. All fixtures shall be provided with vandal resistant trim.
4. Provide carrier required for complete installation of fixture.

WC-A	Zurn Z5615 vitreous china, wall mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, 1-1/2" spud toilet, open front seat less cover, Zurn Z6000AV-WS1 flush valve with vacuum breaker and angle stop, coated cast iron closet carrier with adjustable closet connection and with feet anchor bolted to floor. Fixture color: White. Mount with rim at 15 inches AFF.
WC-B (ADA)	Zurn Z5615 ADA vitreous china, wall mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, 1-1/2" top spud toilet, open front seat less cover, Zurn Z6000AV-WS1 flush valve with vacuum breaker, angle stop and ADA compliant handle, coated cast iron closet carrier with adjustable closet connection and with feet anchor bolted to floor. Fixture color: White. Mount with rim at 17" AFF.
UR-A	Zurn Z5755-U vitreous china, wall hung washout flushing action, extended rim, 1.0 GPF, 3/4" top spud, integral trap, wall hanger carrier with feet anchor bolted to floor, Zurn Z6003AV-WS1 flush valve with vacuum breaker and angle stop. Fixture color: White. Mount with lip at 24" AFF.
UR-B (ADA)	Zurn Z5755-U vitreous china, wall hung, washout flushing action, extended rim, 1.0 GPF, 3/4" top spud, integral trap, wall hanger carrier with feet anchor bolted to floor, Zurn Z6003AV-WS1 flush valve with vacuum breaker, ADA compliant handle and angle stop. Fixture color: White. Mount with lip at maximum of 17" AFF.
LAV-A	Zurn Z5124 self-rimming round vitreous china lavatory, 19" outside diameter, front overflow. Trim with Zurn Z81101-XL-3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexed hot or cold 2-1/2" metal lever handles, Dearborn supplies with stops and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug. Fixture color: White. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi Lav-Guard manufactured by Truebro Inc.
LAV-B (ADA)	Zurn Z5344 20" x 18" vitreous china front overflow lavatory for concealed arms. Trim with Zurn Z81101-XL-3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexes hot or cold 2-1/2" metal lever handles, Dearborn supplies with stops and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug. Fixture color: White. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi Lav-Guard manufactured by Truebro Inc. Provide carrier with feet anchor bolted to floor.
SH-A	Trim for shower: Zurn Z7301-SS-MT-I2 pressure balancing valve with integral stops, metal lever handle, institutional fixed spray shower head with integral 2.5 GPM flow control. Piping shall be concealed in wall. Install valve at 48" AFF, head at 72" AFF.
SH-B (ADA)	Provide trim for handicapped accessible shower: Zurn Z7301-SS-MT-DV2P-HW-VB anti-scald pressure balancing mixing valve with ADA compliant handle, adjustable stop screw to limit handle turn, and integral service stops, Z7000-I2-1.75 institutional fixed spray shower head with integral 1.75 GPM flow control, wall and hand spray unit with 60" of flexible rubber line metal hose with in-line vacuum breaker, wall spout, 24" slide bar with bracket, and diverter valve with ADA complaint metal lever handle. Piping shall be concealed in wall. See Handicapped Accessible Shower Detail for mounting heights.
SH-C (ADA)	Comfort Designs XST 3838 BF RRF 1.0 RRF-1 36" x 36" x 78-7/8" ADA compliant gelcoat shower enclosure, center sloping floor, center drain location with self caulking brass shower drain, curtain rod, ADA compliant 1-1/2" dia. stainless steel grab bars, 1" threshold, Color: White. Trim with Zurn Z7300-SS-MT-VB anti-scald pressure balancing mixing valve with ADA compliant handle, adjustable stop screw to limit handle turn, and integral service stops, hand spray unit with 60" of flexible rubber lined metal hose with in-line vacuum breaker, wall spout, 24" slide bar with bracket. Piping shall be be concealed in wall. See Handicapped Accessible Shower Detail for mounting heights. Enclosure shall be recessed in floor to maintain ADA complaint threshold.
EWC-A (ADA)	Halsey Taylor #HTHB-HACGB two-level, lead free, wall hung electric drinking fountain with front mounted push bars for water control, single water chilling unit with capacity to cool 8.0 GPH from 80 degrees F to 50 degrees F at 90 degrees F room temperature, with Refrigerant 134a, and single plumbing and electrical rough-in. Tops shall be stainless steel, frame shall be heavy duty welded steel with beige steel cabinet. Provide with supply stops and 1-1/4" Dearborn 17 gauge cast brass P-trap with cleanout plug. Electrical characteristics: 120 volt/1 phase, 4.8 F.L.A. Provide with bottle filling station with 1.1 GPM fill rate.
DF-A (ADA)	Halsey Taylor #HDFF-BLEBP two-level, lead free stainless steel drinking fountain with freeze resistant boxes to be installed inside the building, vandal-resistant bubblers, self-closing vandal-resistant actuation mechanism, 1-1/4" 17 gauge P-traps with cleanout plug, mounting carrier. See Architectural Elevations for mounting height.
CCB	Guy Gray B200 clotheswasher connection box, recessed housing with 1/2" valved hot and cold water top or bottom supply connections as required, and knockout for 2" drain connection. Galvanized steel construction.
IMB	Guy Gray BIM875AB icemaker connection box, 20 gauge galvanized steel faceplate, 20 gauge galvanized steel recessed housing with 1/2" lead free valved cold water supply connection.
WH-A	Wade W-8600 non-freeze wall hydrant, cast bronze with satin bronze face, 3/4" inlet and brass casing of sufficient length to extend through walls as required to place valve inside building. Valve rod and seat washer shall be removable through the face of the hydrant. Hydrant shall be furnished complete with detachable T-handle and integral vacuum breaker.
HB-A	Woodford model 26, hose bibb, cast bronze, with rough chrome finish, wheel handle, 3/4" inlet and hose thread outlet. Hose bibb shall be furnished complete with no spray back integral vacuum breaker
FD-A	Floor drain for finished areas - Wade 1100-1 floor drain with clamping collar, adjustable, vandal proof, 6" satin nickel bronze top. Provide with ProSet Systems trap guard T25630-F.
FD-B	Floor drain for mechanical rooms - Wade 2350-27 cast iron with bottom outlet, 8" square top, square loose set grate, and removable sediment bucket. Provide with ProSet Systems trap guard T25630-F.
FD-C	Floor drain for showers - Zurn ZS880-28 4" x 28" stainless steel shower drain with bottom outlet, adjustable top with Type 304 stainless steel slotted heel-proof grate. Fabricated stainless steel body with V shaped channel, 2" No-Hub center drain, secured leveling frame. Provide with ProSet Systems trap guard T25630-F.
FD-D	Floor drain Sioux Chief 841-2P 2" PVC floor drain with 6" dia polypropylene strainer.
FWCO	Wade 8560-E cleanout tee with brass threaded plug and 8480-R round stainless steel coverplate secured to plug by countersunk screw.
FGCO	Finished grade cleanout, Wade 6000-Z cast iron cleanout with straight body and fitted with bronze countersunk plug, same size as soil pipe with ductile iron scoriated cover. Bring extra heavy cast iron riser pipe to grade. Terminate hub flush in center of 18"x18"x4" (18" x 36" x 4" for two way cleanout) concrete block when not located in concrete area.
FFCO	Finished floor cleanout, Wade 6000-Z-1 cast iron finished floor cleanout with spigot outlet, threaded adjustable housing, flanged ferrule with bronze threaded plug and vandal proof round secured nickel bronze scoriated top.
HWH-A	A.O. Smith BTH-199 gas fired direct vent water heater, 100gallon storage, 199 MBH natural gas input, 261 gallon per hour recovery at 90 degrees F rise.
MXV-A	Leonard #TM-520B-LF-DT-IT high-low thermostatic water mixing valve assembly for exposed exposed piping with Type TM Thermostatic Water Mixing Valve with solid bimetal thermostat directly linked to valve porting, adjustable limit stops, color coded scale, wall support, inlet union angle strainer checkstops, outlet volume control/shutoff, pressure regulating valve with pressure gauges, Type TM Thermostatic Water Mixing Valve with solid bimetal thermostat directly linked to valve porting, assembly shall be capable of providing 29 gpm of tempered water at 10 psi pressure drop, 1.0 gpm minimum flow rate, adjustable limit stops, color coded scale, outlet volume control/shutoff, dial thermometer (range: 0 degrees F to 140 degrees F), rough bronze finish.
HWP-A	Hot water circulation pump, Taco #005-BF, in-line, 4GPM @ 9 ft. head, 1/35 HP, bronze body, 3250 RPM, 120 volt, 1 phase, 3/4" flanges. Provide bronze companion flanges and aquastat control.
SA-A	Wade Shock Arrestors, stainless steel construction with welded nested bellows, precharged with nitrogen, 125 psi maximum operating pressure, 300 degree F maximum temperature.

Fixture Units	Designation	Wade Catalog No.	PDI Rating
1-11	SA-5	5	A
12-32	SA-10	10	B
33-60	SA-20	20	C

TEA-A	Thermal Expansion Absorber, Amtrol ST-85CL precharged hydropneumatic steel expansion tank with replaceable internal butyl bladder. 22.0 gallons total volume, 11.0 gal minimum expansion volume, bottom system connection, 150 psig maximum working pressure.
SS-A	Fiat MSB2424 24"x24"x10" deep Molded Stone one piece service sink with drain and strainer. Trim with Zurn Z843M1-XL-CS faucet with top brace, service stops, check stops, indexed 2-1/2" hot and cold metal lever handles, bucket hook, vacuum breaker, and threaded hose end spout, polished chrome plated finish. Fixture color: White.



B HOT WATER HEATER DETAIL
NOT TO SCALE

Job No. 15011-1

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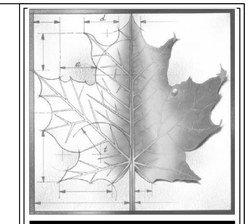

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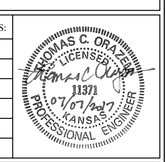


Project Number: **16036**

Date: **7/7/17**

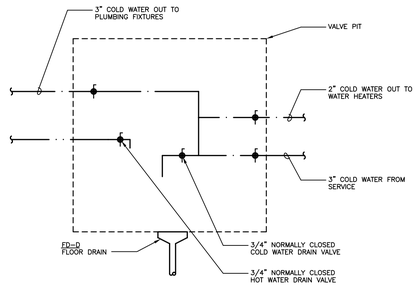
Project Name:
USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS

Project Address:
4290 Columbian Road Wamego, KS

Sheet Title:
PLUMBING DETAILS

Sheet: **P201**

Of: **8**



A VALVE PIT PIPING DETAIL
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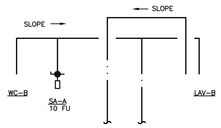

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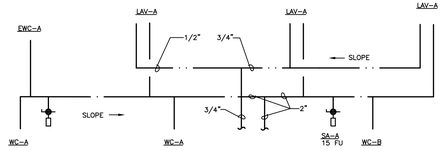

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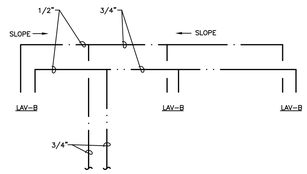

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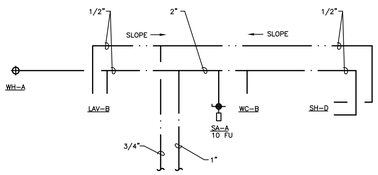

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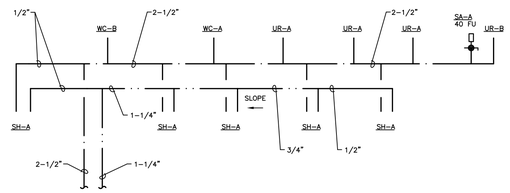

F WATER PIPING DIAGRAM RESTROOM 111 AND SHOWER 112
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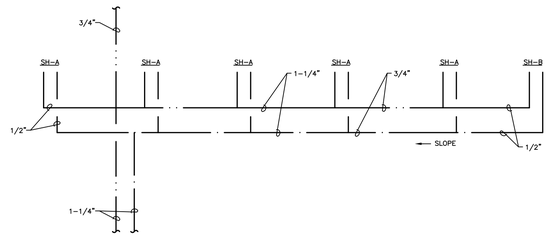

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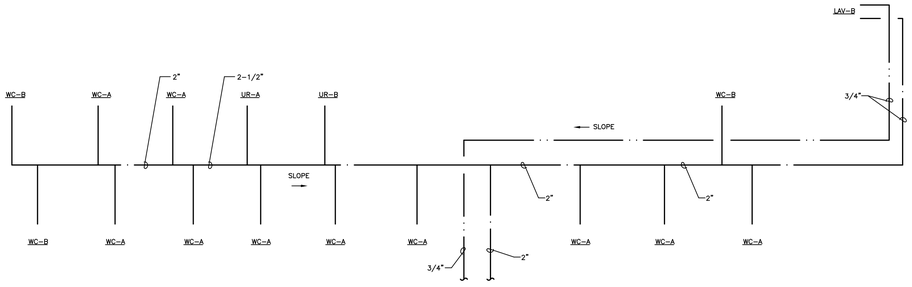

H WATER PIPING DIAGRAM WOMENS 101, MENS 103, FAMILY 102
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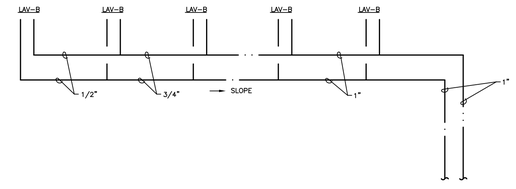

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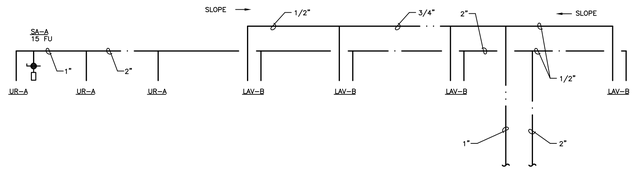

J WATER PIPING DIAGRAM MENS 103
NOT TO SCALE

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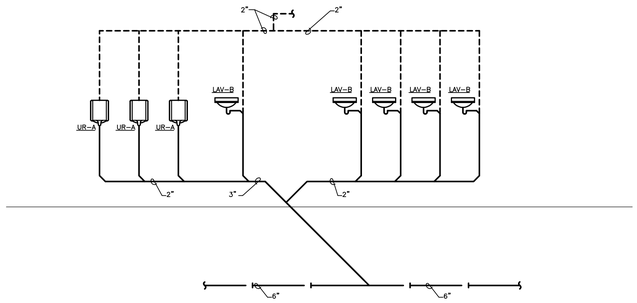
THOMAS C. ORAZEM
LICENSED
11371
07/07/2017
KANSAS
PROFESSIONAL ENGINEER

Project Number: 16036
Date: 7/7/17
Project Name: USD 320 SPORTS COMPLEX LOCKER AND CONCESSIONS
Project Address: 4290 Columbian Road Wamego, KS
Sheet Title: PLUMBING DETAILS
Sheet: P202
Of: 8

Job No. 15011-1
ORAZEM & SCALORA ENGINEERING, P.A.
Manhattan, Kansas



A WASTE RISER DIAGRAMS RESTROOM 103
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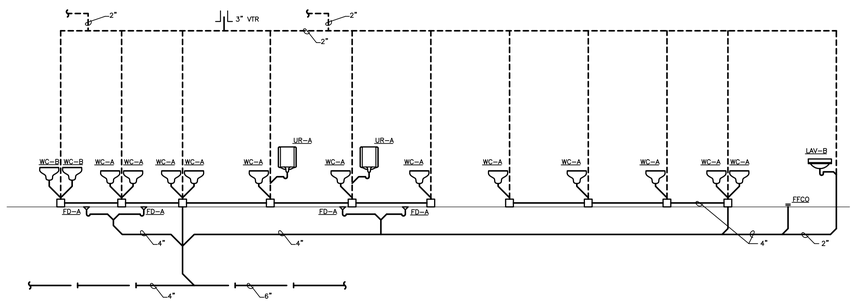

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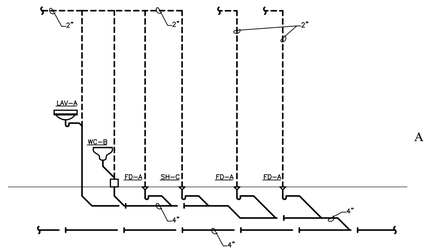

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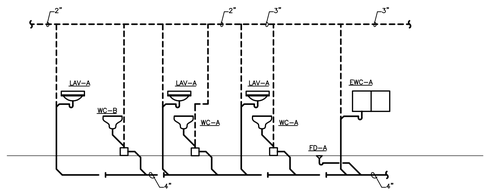

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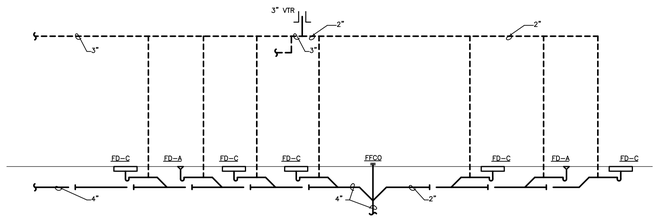

E WASTE RISER DIAGRAMS SHOWER 120
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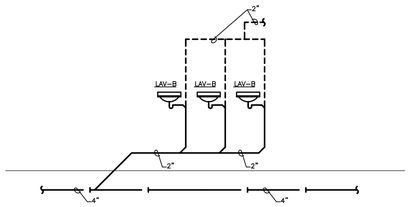

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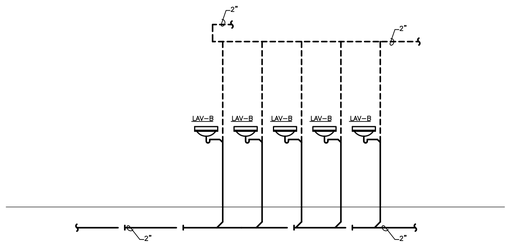

G WASTE RISER DIAGRAMS WOMENS 101
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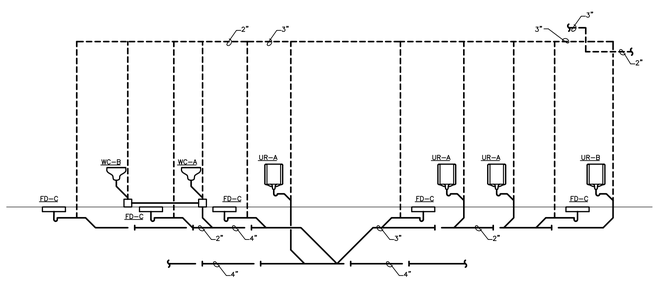

H WASTE RISER DIAGRAMS SHOWER 112 & RESTROOM 111
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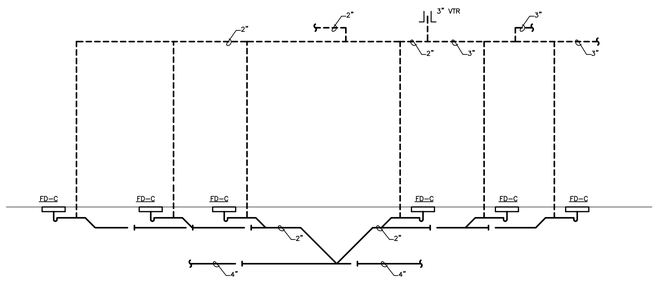

I WASTE RISER DIAGRAMS SHOWER 112
NOT TO SCALE

Job No. 15011–1

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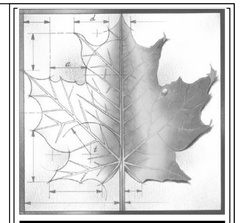

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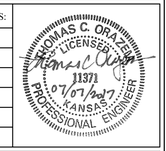

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Sheet Title:
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Sheet: P203

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