USD 320 WAMEGO- DISTRICT KITCHEN

4290 COLUMBIAN ROAD WAMEGO, KS

ORIGINAL CONTRACT DOCUMENTS

Owner:

USD 320 WAMEGO

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

FOOD SERVICE CONSULTANT:

MONTGOMERY HOFFMAN AND ASSOCIATES
2400 SW 29TH ST. SUITE #122
TOPEKA, KS 66611

PROJECT DESCRIPTION:

NEW COMMERCIAL KITCHEN SERVING THE SCHOOL DISTRICT FOOD SERVICE NEEDS TO THE STUDENTS.

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.

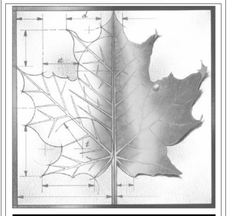
5. CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.

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 WAMEGO- DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

TITLE SHEET

Sheet:

T101

Of:

GENERAL INFORMATION

LOCATION:	USD 320 WAMEGO- DISTRICT KITCHEN 4290 COLUMBIAN ROAD WAMEGO, KS	OWNER INFORMATION:	USD 320 WAMEGO 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 COMMERCIAL KITCHEN FOR SCHOOL DISTRICT

APPLICABLE CODES

2012 INTERNATIONAL BUILDING CODE	2011 NATIONAL ELECTRIC CODE	2010 NFPA 10
2012 INTERNATIONAL MECHANICAL CODE	2012 INTERNATIONAL FIRE CODE	2010 NFPA 13
2012 INTERNATIONAL PLUMBING CODE	KANSAS FIRE PREVENTION CODE	2010 NFPA 14
2012 INTERNATIONAL FUEL GAS CODE	2010 ADA STANDARD FOR ACCESSIBLE DESIGN	2010 NFPA 25
2012 INTERNATIONAL ENERGY CODE	2010 ASHRAE 90.1	2010 NFPA 72
		2003 NFPA 92B

BUILDING HEIGHTS AND AREAS

BASIC ALLOWABLE AREA AND HEIGHT:

ALLOWABLE AREA: 15,500 SF.

ALLOWABLE HEIGHT: 55'-0"

ACTUAL AREA: 8,369 SF.

ACTUAL HEIGHT: 18'-0"

CONSTRUCTION CLASSIFICATION

CONSTRUCTION TYPE: II 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 (<30' FROM ADJACENT BUILDING OR PROPERTY LINE):	0-HR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:	0-HR
ROOF CONSTRUCTION INCLUDING SUPPORITNG BEAMS & JOISTS:	0-HR

OCCUPANCY CLASSIFICATION

GROUP F-1

EXIT WIDTH FACTORS

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

NON-CONFORMING ITEMS

NONE

PASSIVE LIFE SAFETY SYSTEMS

CORRIDOR RATINGS:	1-HOUR
EXIT STAIR ENCLOSURES:	NONE
SHAFTS:	NONE
OCCUPANCY SEPERATIONS:	NONE

ACTIVE LIFE SAFETY SYSTEMS

FIRE ALARM:	NOT REQUIRED/NOT PROVIDED	PER IBC SECTIONS 907.2
FACP:	NOT REQUIRED/NOT PROVIDED	
EMERGENCY VOICE ALARM COMMUNICATION:	NOT REQUIRED/NOT PROVIDED	PER IBC SECTION 907.2.1.1
REMOTE ANNUNCIATIOR PANEL:	NOT REQUIRED/NO PROVIDED	
SMOKE DETECTION:	NOT REQUIRED/NOT PROVIDED	ELEVATOR LOBBIES; HVAC RETURN DUCTS >2,000 CFM, SUPPLY DUCTS > 10,000 CFM
EXIT SIGNS:	REQUIRED/PROVIDED	INTERNAL BATTERY BACKUP
EMERGENCY LIGHTS:	REQUIRED/PROVIDED	INTERNAL BATTERY BACKUP
BACKUP POWER:	NOT REQUIRED/NOT PROVIDED	
STANDPIPES:	NOT REQUIRED/NOT PROVIDED	CLASS I WET, LOCATIONS SHOWN ON CF03-CF-05
AUTOMATIC SPRINKLERS:	NOT REQUIRED/NOT PROVIDED	WET, THROUGHOUT PER NFPA 13
FIRE EXTINGUISHERS:	REQUIRED/PROVIDED- TYPE K	PER IBC SECTION 906.1 & NFPA 10
FIRE PUMP:	NOT REQUIRED/ NOT PROVIDED	
PRESSURIZED EXIT STAIRS:	NOT REQUIRED/ NOT PROVIDED	
PRESSURIZED ELEVATORS:		
PULL STATIONS:	NOT REQUIRED/NOT 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 ANNUNCIATOR PANEL	
	FIRE DEPARTMENT KNOX BOX	
	EXIT SIGN	

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

Description Date

PATRICK A. SCHAUB LICENSED 3075 KANSAS PROFESSIONAL ARCHITECT 7.7.2017

Project Number: 16036

Date: 7/7/17

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

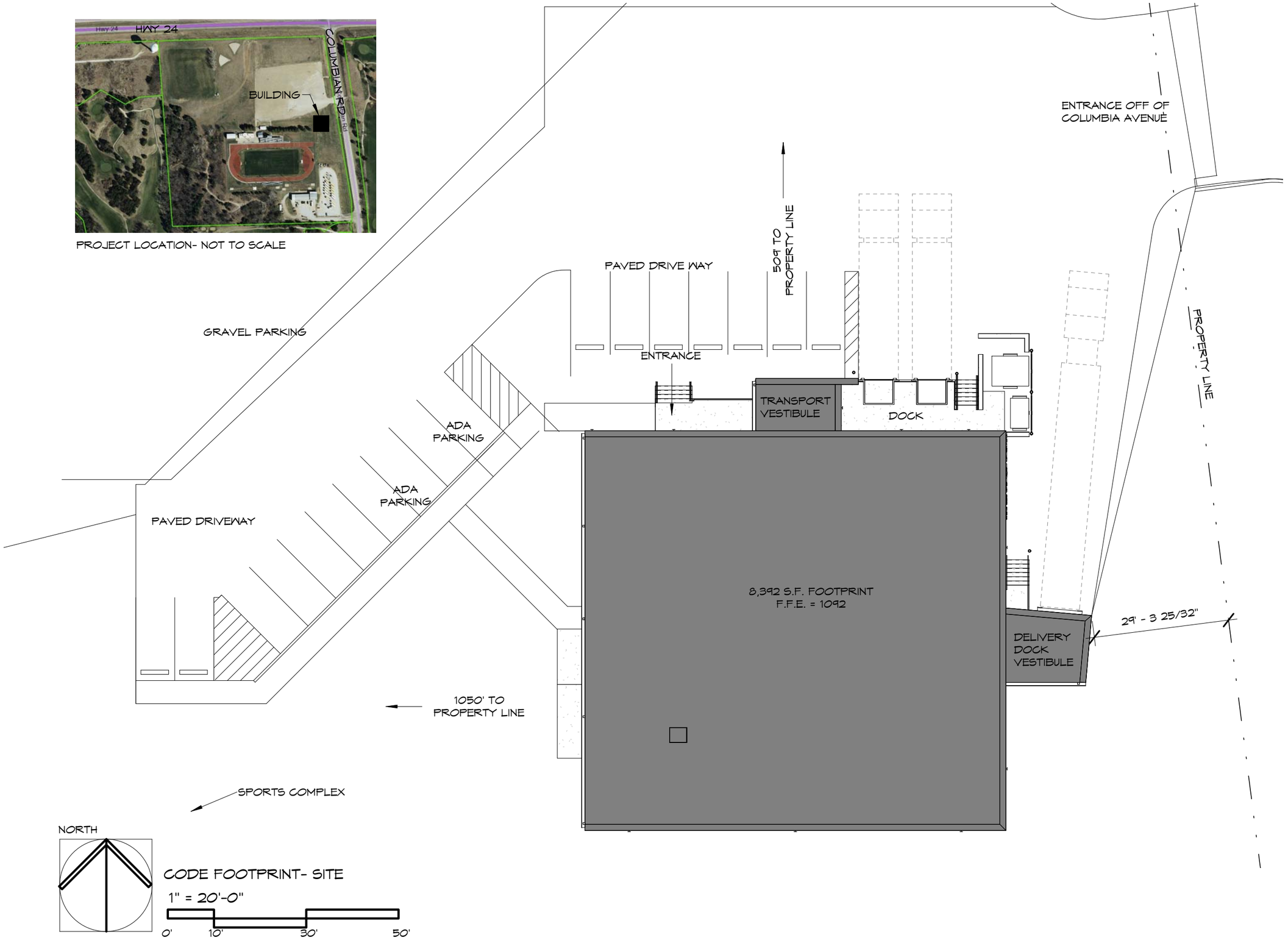
Sheet Title:

CODE REVIEW

Sheet:

CF101

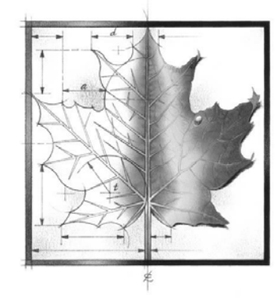
PROJECT LOCATION- NOT TO SCALE



CODE FOOTPRINT- SITE

1" = 20'-0"

0' 10' 30' 50'



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

Description	Date

Project Number:	**16036**
Date:	**7/7/17**

Project Name:

USD 320 WAMEGO- DISTRICT KITCHEN

Project Address:

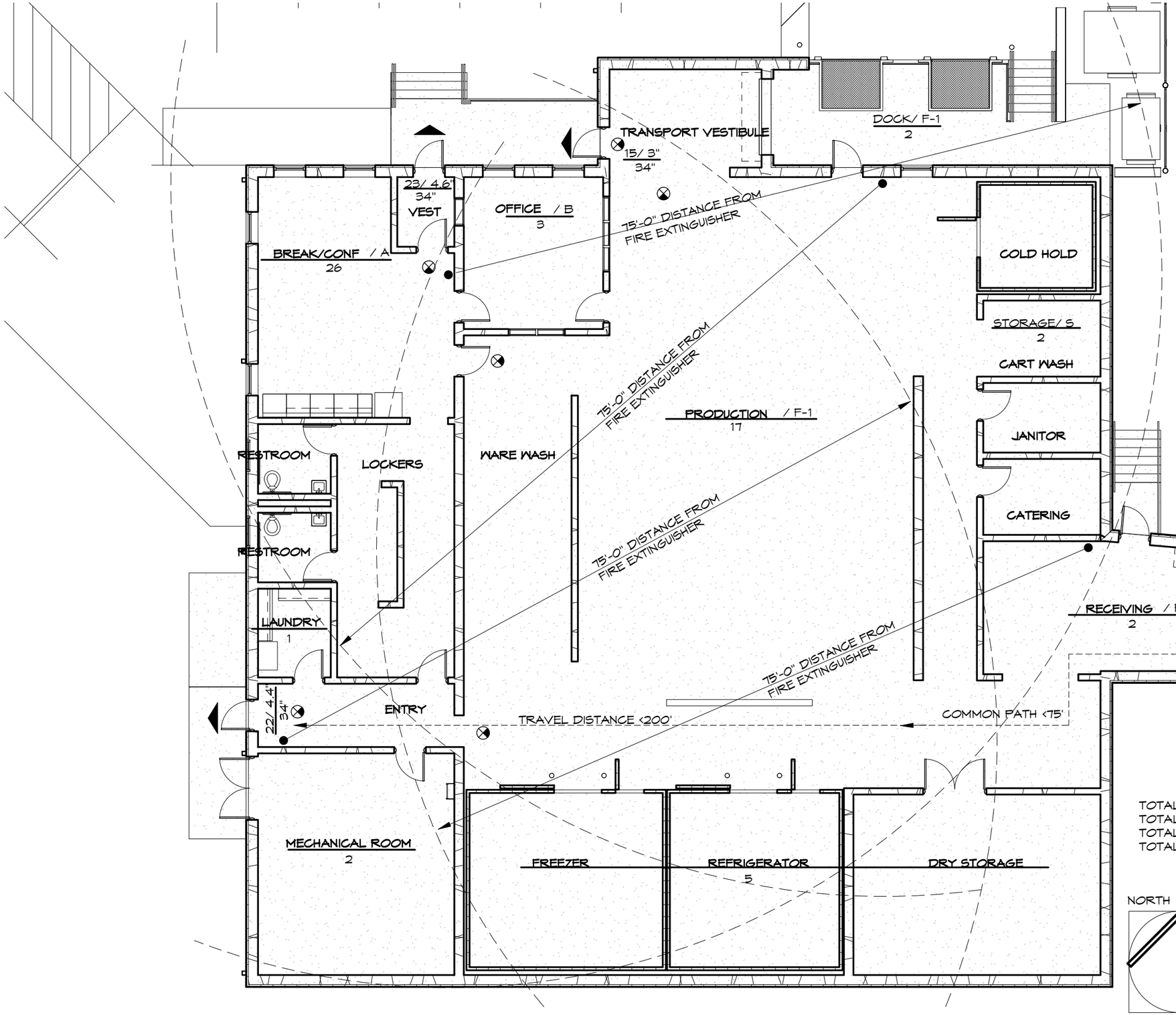
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

CODE SITE PLAN

Sheet:

CF102

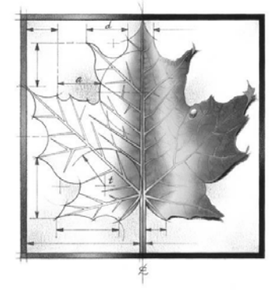


TOTAL OCCUPANTS: 60
TOTAL EGRESS WIDTH REQUIIRED: 12"
TOTAL EGRESS PROVIDED: 102"
TOTAL EGRESS EXITS: 3

NORTH

CODE PLAN
3/32" = 1'-0"

0' 10' 20' 30'



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

Description	Date

PATRICK A. SCHAAB
LICENSED
3975
7-7-2017
KANSAS
PROFESSIONAL ARCHITECT

Project Number:	**16036**
Date:	**7/7/17**

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

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

Sheet Title:

CODE PLAN

Sheet:
CF103

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

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.

ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.

ALL TREES NOT NOTED AS BEING REMOVED ARE TO BE SAVED AND SHALL BE PROTECTED DURING CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

CAUTION - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

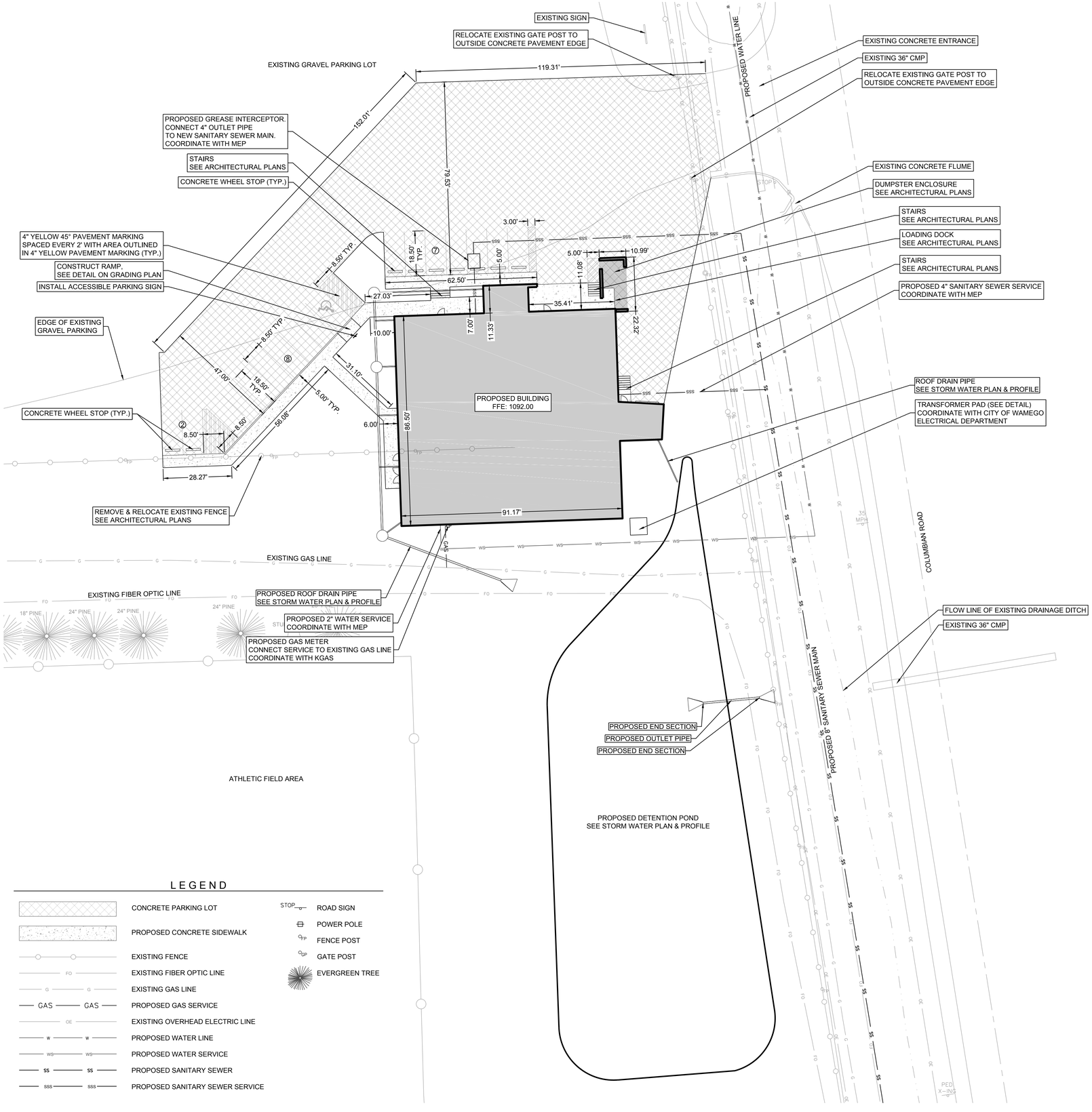
ELECTRIC	CITY OF WAMEGO 430 LINCOLN AVENUE WAMEGO, KS 66547 (785) 456-9119
TELEPHONE	WTC TELEPHONE SERVICE ANDY BOECKMAN 1009 LINCOLN AVENUE WAMEGO, KS 66547 (785) 456-1000
WATER & SEWER	CITY OF WAMEGO 430 LINCOLN AVENUE WAMEGO, KS 66547 (785) 456-9119
CABLE	COX COMMUNICATIONS GLENN CALHOON 931 SW HENDERSON TOPEKA, KS 66615 (785) 215-6705
GAS	KANSAS GAS SERVICE JULIE ROBLYER 225 SETH CHILD ROAD MANHATTAN, KS 66502 (785) 587-2339

KANSAS ONE-CALL SYSTEMS, INC.

CALL BEFORE YOU DIG - DRILL - BLAST
800-344-7233
(DIG-SAFE)
(316) 687-3753
(FAX)

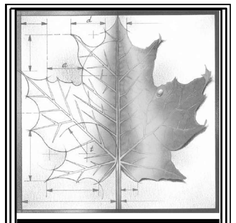
KANSAS ONE CALL SYSTEM, INC.

The utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage. Confirmation Number 17093029.



LEGEND

	CONCRETE PARKING LOT
	PROPOSED CONCRETE SIDEWALK
	EXISTING FENCE
FO	EXISTING FIBER OPTIC LINE
G	EXISTING GAS LINE
GAS	PROPOSED GAS SERVICE
OE	EXISTING OVERHEAD ELECTRIC LINE
W	PROPOSED WATER LINE
WS	PROPOSED WATER SERVICE
SS	PROPOSED SANITARY SEWER
SSS	PROPOSED SANITARY SEWER SERVICE
STOP	ROAD SIGN
	POWER POLE
FP	FENCE POST
GP	GATE POST
	EVERGREEN TREE



BBN

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 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

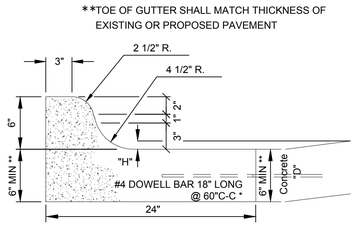
Sheet Title:

SITE PLAN

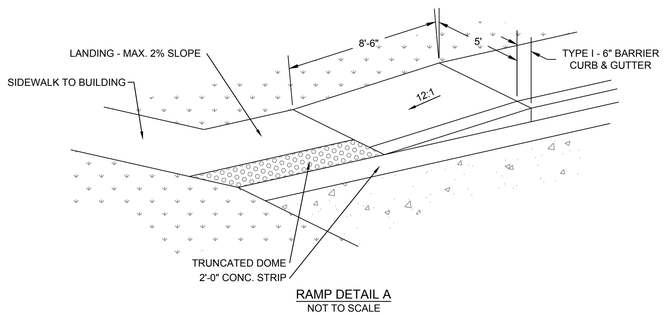
Sheet:

C1

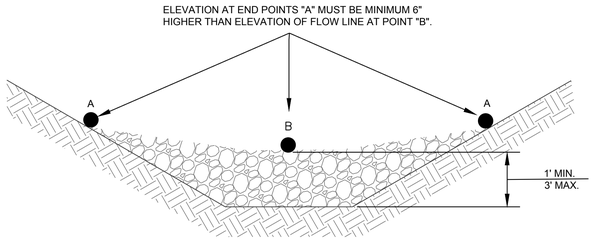
Of:



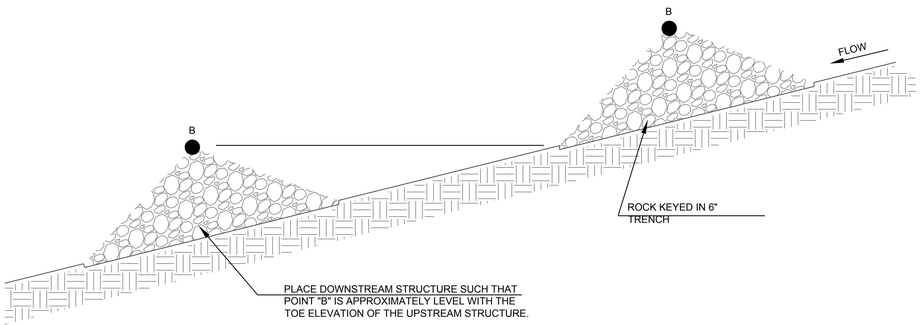
TYPE 1 - 6" BARRIER CURB
NOT TO SCALE



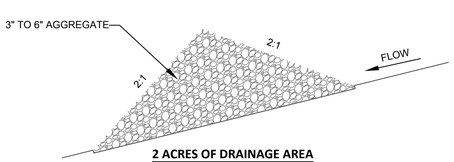
RAMP DETAIL A
NOT TO SCALE



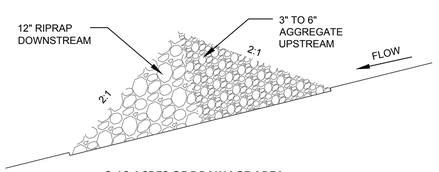
FRONT VIEW



SPACING BETWEEN CHECK DAMS



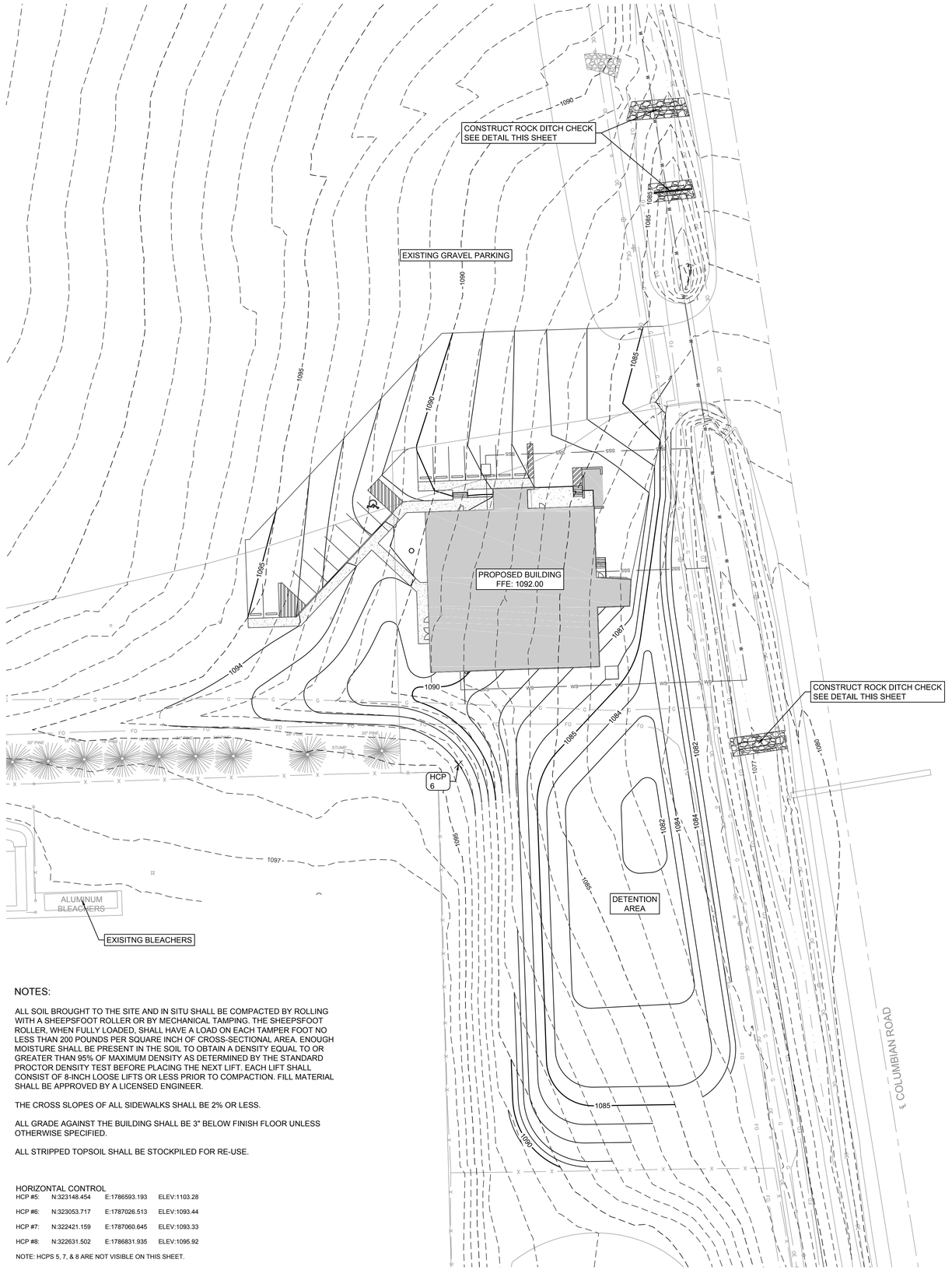
2 ACRES OF DRAINAGE AREA



2-10 ACRES OF DRAINAGE AREA

NOTE:
ROCK CHECK DAMS SHALL BE USED ONLY FOR DRAINAGE AREAS LESS THAN 10 ACRES UNLESS APPROVED BY THE CITY.

ROCK DITCH CHECK
(NOT TO SCALE)



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.

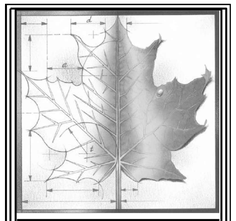
ALL GRADE AGAINST THE BUILDING SHALL BE 3" BELOW FINISH FLOOR UNLESS OTHERWISE SPECIFIED.

ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.

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 5, 7, & 8 ARE NOT VISIBLE ON THIS SHEET.



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

30' 15' 0' 30'
SCALE: 1" = 30'

REV	DESCRIPTION	DATE

Project Number: 16036
Date: 7/7/17
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN
Project Address:
**510 E. HIGHWAY 24
WAMEGO, KS**
Sheet Title:
GRADING PLAN
Sheet: **C2**
Of:

COORDINATES

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1001	323189.79	1787008.55	1091.69	EOS
1002	323151.90	1787009.84	1092.00	EOS
1003	323118.92	1787010.97	1092.00	EOS
1004	323103.35	1787011.50	1091.16	FG
1006	323106.46	1787102.62	1086.24	FG
1008	323138.44	1787101.52	1089.44	FG
1010	323139.04	1787118.83	1087.71	FG
1012	323153.55	1787119.60	1088.00	EOS
1014	323154.27	1787106.07	1088.00	EOP/BW
1015	323154.27	1787106.06	1092.00	EOS/TW
1024	323159.71	1787105.88	1091.90	TS
1025	323159.53	1787100.80	1091.90	TS
1026	323165.21	1787105.69	1087.84	BS
1027	323165.03	1787100.61	1087.84	BS
1028	323192.91	1787099.66	1087.50	EOP
1029	323191.67	1787099.70	1087.50	EOP
1030	323191.84	1787104.77	1087.40	EOP
1031	323201.48	1787099.11	1091.83	EOS/BW
1032	323201.48	1787099.11	1087.50	EOP/TW
1033	323203.79	1787093.37	1087.82	BS
1034	323203.62	1787088.37	1087.82	BS
1035	323198.29	1787093.55	1091.88	TS
1036	323198.12	1787088.56	1091.88	TS
1037	323201.74	1787063.67	1092.00	EOS
1038	323201.84	1787067.42	1091.99	EOS
1039	323203.14	1787067.37	1091.97	EOS/TW
1040	323203.15	1787067.37	1088.00	EOS/BW
1041	323202.39	1787045.14	1088.96	EOS
1042	323198.06	1787045.28	1092.00	EOS/TW
1043	323198.06	1787045.28	1090.41	FG

COORDINATES

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1044	323190.32	1787023.79	1092.00	EOS
1045	323151.77	1787005.92	1091.92	EOS
1046	323146.70	1787004.02	1091.88	EOS
1047	323118.72	1787004.97	1091.88	EOS
1048	323208.15	1787067.20	1087.90	EOS
1049	323197.59	1787031.54	1091.86	TS
1050	323197.60	1787031.55	1090.23	FG
1051	323196.31	1787023.58	1091.88	EOS
1052	323196.32	1787023.57	1090.48	FG
1053	323199.34	1787031.48	1089.56	BS
1054	323201.92	1787031.39	1089.51	EOS
1055	323206.91	1787031.22	1089.41	EOS
1056	323206.64	1787023.23	1089.41	EOS
1057	323201.64	1787023.40	1089.51	EOS
1058	323199.07	1787023.49	1089.56	BS
1059	323206.07	1787004.74	1090.33	EOS
1060	323201.01	1787004.90	1090.43	EOS
1061	323226.63	1787066.57	1087.53	TOP
1062	323224.50	1787004.11	1089.95	EOP
1063	323224.46	1787003.10	1090.04	EOP
1064	323221.29	1786996.13	1090.53	EOP
1065	323207.67	1786983.41	1091.03	TOP
1066	323201.46	1786977.61	1091.20	TOP
1067	323195.25	1786971.81	1091.37	TOP
1068	323195.39	1786996.57	1091.40	EOS
1069	323189.45	1786998.55	1091.49	EOS
1070	323185.42	1786994.79	1091.61	EOS/BOR
1071	323189.18	1786990.77	1091.56	EOS/BOR
1072	323182.62	1786985.33	1092.22	BOC/TOR
1073	323179.21	1786988.99	1092.31	EOS/TOR

COORDINATES

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1074	323172.99	1786983.18	1092.63	EOS
1075	323169.34	1786979.77	1092.73	EOS
1076	323172.75	1786976.12	1092.63	BOC/EOS
1077	323176.41	1786979.53	1092.53	BOC/EOS
1078	323139.14	1786944.72	1093.84	BOC/EOS
1079	323133.26	1786938.56	1094.07	EOS/FL
1080	323132.82	1786938.82	1094.07	BOC/EOS
1081	323128.36	1786941.50	1093.97	EOS
1082	323132.39	1786913.07	1094.97	EOS
1083	323127.39	1786913.24	1094.87	EOS
1084	323174.87	1786911.62	1095.86	EOP
1085	323174.94	1786913.85	1095.73	EOP
1086	323286.04	1787017.60	1090.38	EOP
1087	323289.90	1787136.85	1084.45	EOP
1088	323247.13	1787139.05	1083.70	EOP
1089	323199.27	1787129.10	1087.07	EOP
1090	323214.15	1787104.01	1087.40	TOP
1091	323213.77	1787093.02	1087.62	TOP
1092	323099.81	1787112.85	1086.00	EOP
1093	323099.57	1787105.85	1086.00	EOP
1094	323106.57	1787105.62	1086.00	EOP
1095	323106.81	1787112.61	1086.00	EOP
1096	323201.32	1787094.45	1087.57	EOS/BW
1097	323201.32	1787094.45	1091.87	EOP/TW
1099	323197.31	1787023.55	1091.86	TS

RADIUS POINTS

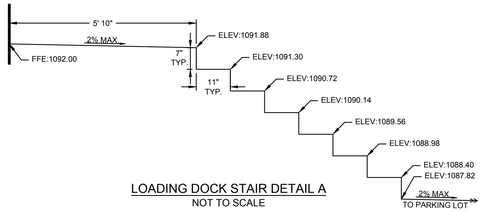
POINT #	NORTHING	EASTING	DESCRIPTION
1098	323217.40	1787001.39	RP

BUILDING POINTS

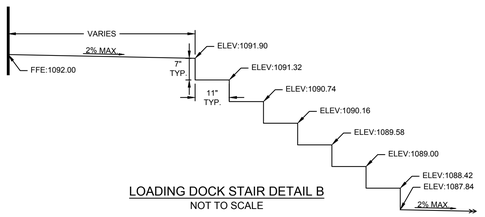
POINT #	NORTHING	EASTING	DESCRIPTION
1000	323189.79	1787008.55	CNR
1005	323103.35	1787011.50	CNR
1007	323106.46	1787102.62	CNR
1009	323138.44	1787101.52	CNR
1011	323139.04	1787118.83	CNR
1013	323153.55	1787119.60	CNR
1016	323154.54	1787100.97	CNR

BUILDING POINTS

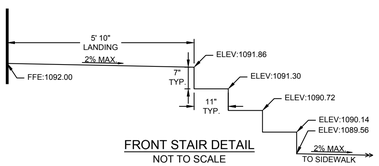
POINT #	NORTHING	EASTING	DESCRIPTION
1017	323192.91	1787099.66	CNR
1018	323191.69	1787064.01	CNR
1019	323201.74	1787063.67	CNR
1020	323201.84	1787067.42	CNR
1021	323203.14	1787067.37	CNR
1022	323202.39	1787045.14	CNR
1023	323191.06	1787045.52	CNR



LOADING DOCK STAIR DETAIL A
NOT TO SCALE



LOADING DOCK STAIR DETAIL B
NOT TO SCALE

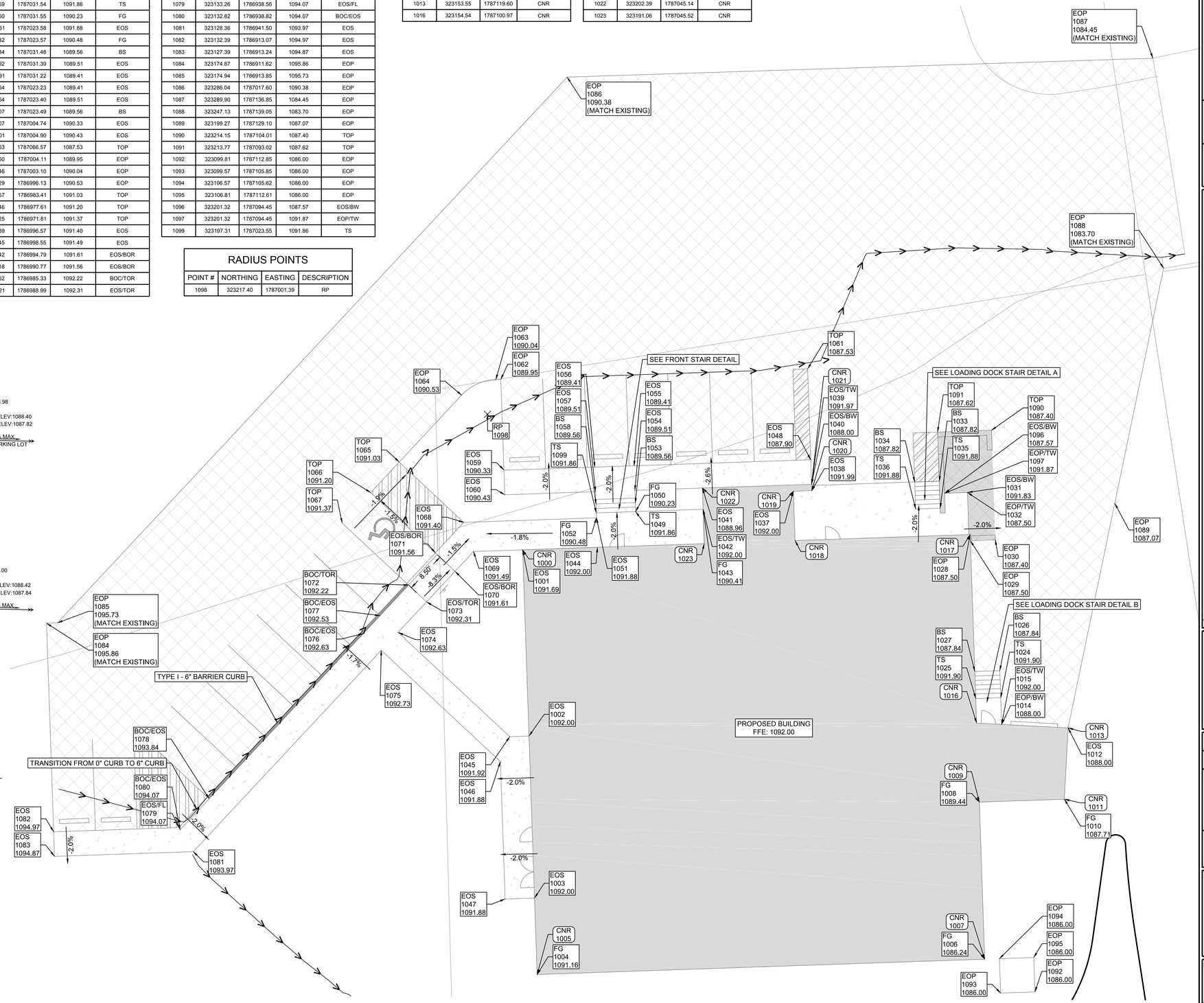


FRONT STAIR DETAIL
NOT TO SCALE

LEGEND

	TYPE I - 6" BARRIER CURB
	FLOW LINE
BOC	BACK OF CURB
CNR	BUILDING CORNER
EOS	EDGE OF SIDEWALK
EOP	EDGE OF PAVEMENT
TOP	TOP OF PAVEMENT
FL	FLOW LINE
RP	RADIUS POINT
TS	TOP OF STAIR
BS	BOTTOM OF STAIR
TOR	TOP OF RAMP
BOR	BOTTOM OF RAMP
TW	TOP OF WALL
BW	BOTTOM OF WALL
FG	FINISHED GRADE

BUILDING CORNER
GENERAL POINT



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

10' 5' 0' 10'
SCALE: 1" = 10'

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

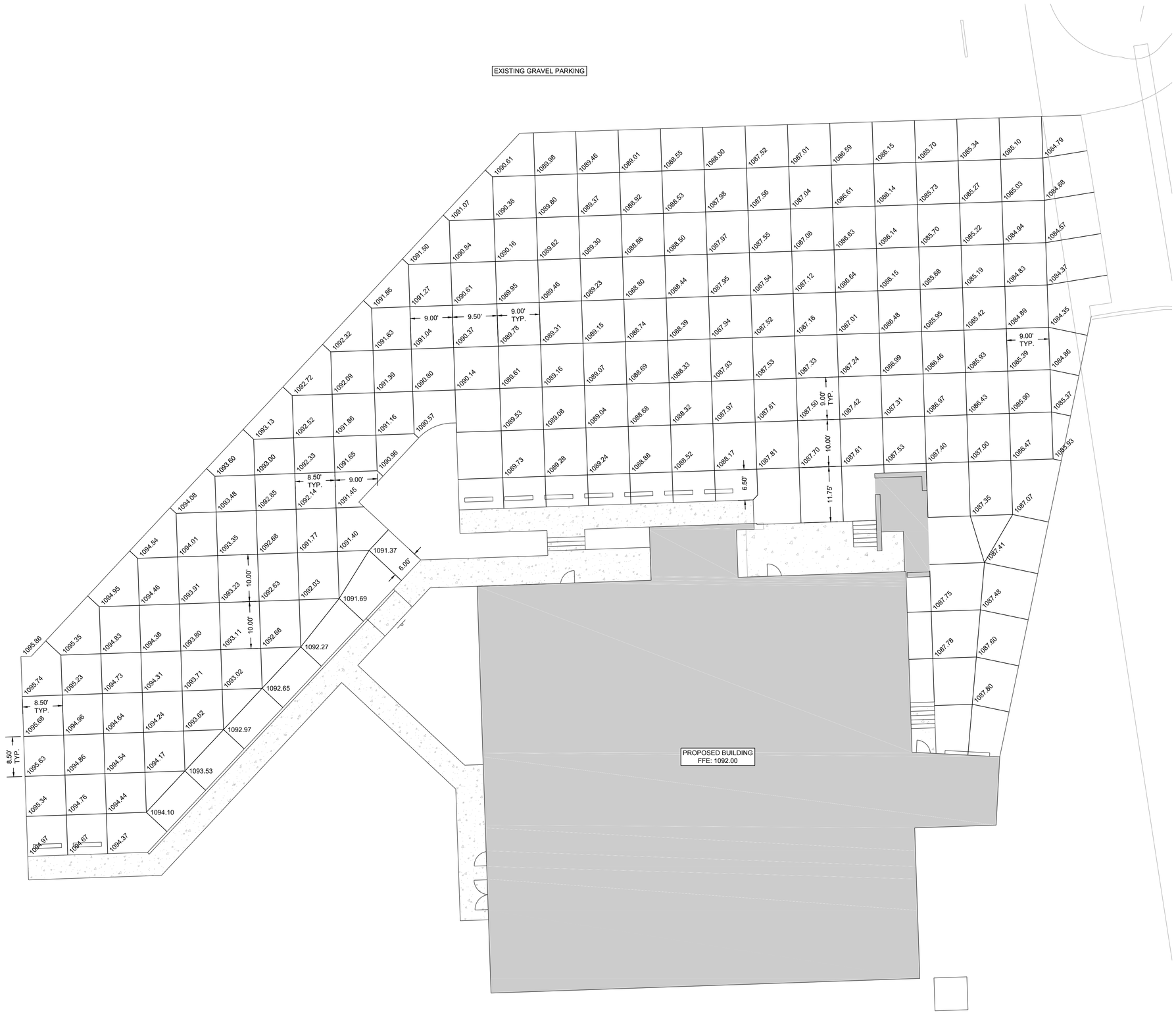
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
HORIZONTAL & VERTICAL CONTROL PLAN

Sheet:
C3

Of:



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

10' 5' 0' 10'
SCALE: 1" = 10'

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
JOINTING PLAN

Sheet: **C4**

Of:

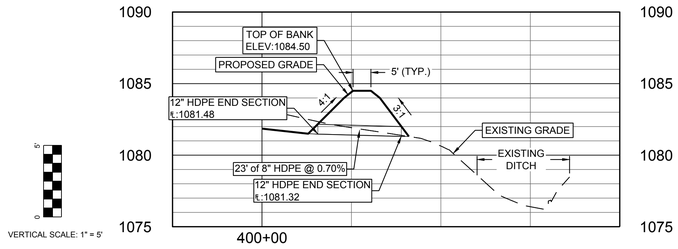
COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4000	323130.05	1787127.30	1084.50	TOB
4001	323129.90	1787131.28	1084.50	TOB
4002	323111.86	1787133.22	1084.50	TOB
4003	322903.87	1787165.22	1084.50	TOB
4004	322878.76	1787149.00	1084.50	TOB
4005	322874.94	1787100.67	1084.50	TOB
4006	322896.54	1787076.41	1084.50	TOB
4007	323029.32	1787071.55	1084.50	TOB
4008	323054.48	1787080.94	1084.50	TOB
4009	323091.51	1787115.52	1084.50	TOB
4010	323110.60	1787124.61	1084.50	TOB

RADIUS POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
4011	323129.78	1787129.28	RP
4012	323142.27	1787330.89	RP
4013	322900.44	1787142.98	RP
4014	322897.37	1787098.90	RP
4015	323029.76	1787108.76	RP
4016	323115.40	1787089.94	RP

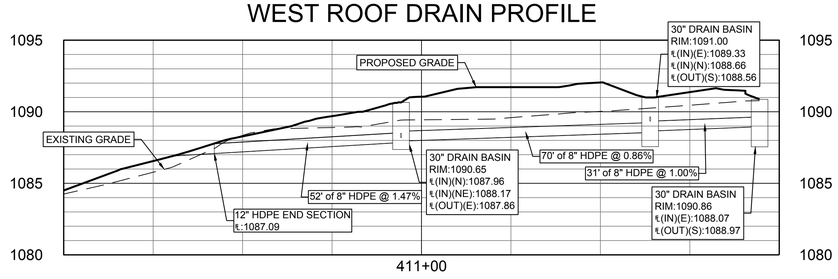
LEGEND

TOB	TOP OF BANK
RP	RADIUS POINT

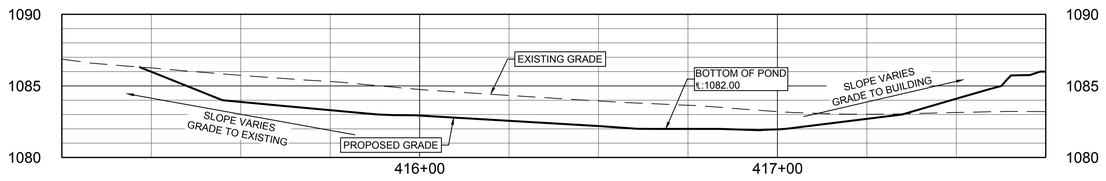
DETENTION POND PROFILE



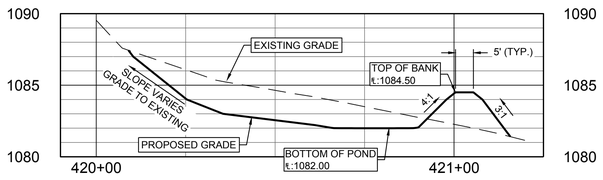
WEST ROOF DRAIN PROFILE

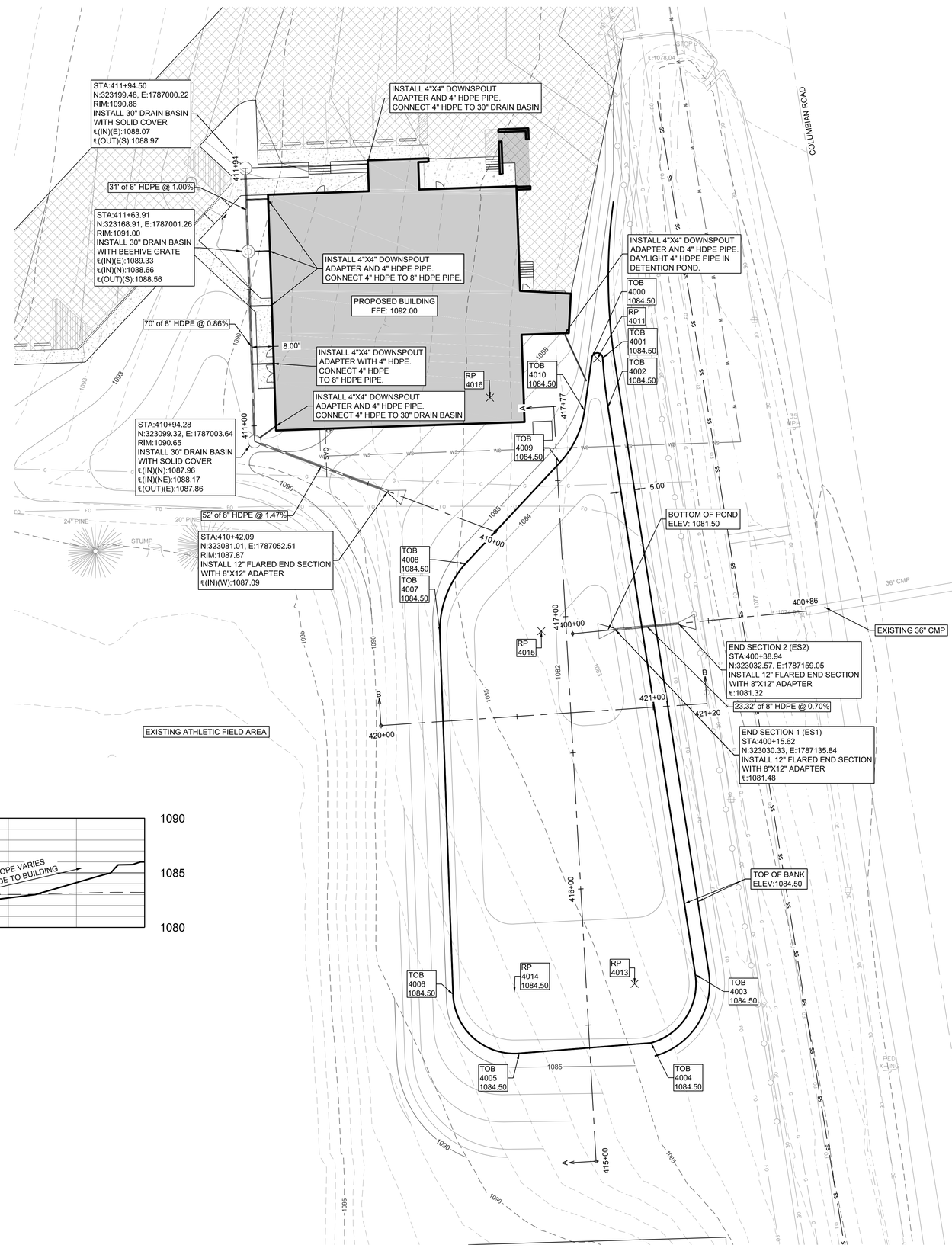


SECTION A-A PROFILE



SECTION B-B PROFILE





BBN

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 LOUIS FREEMAN 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 WAMEGO-DISTRICT KITCHEN

Project Address:

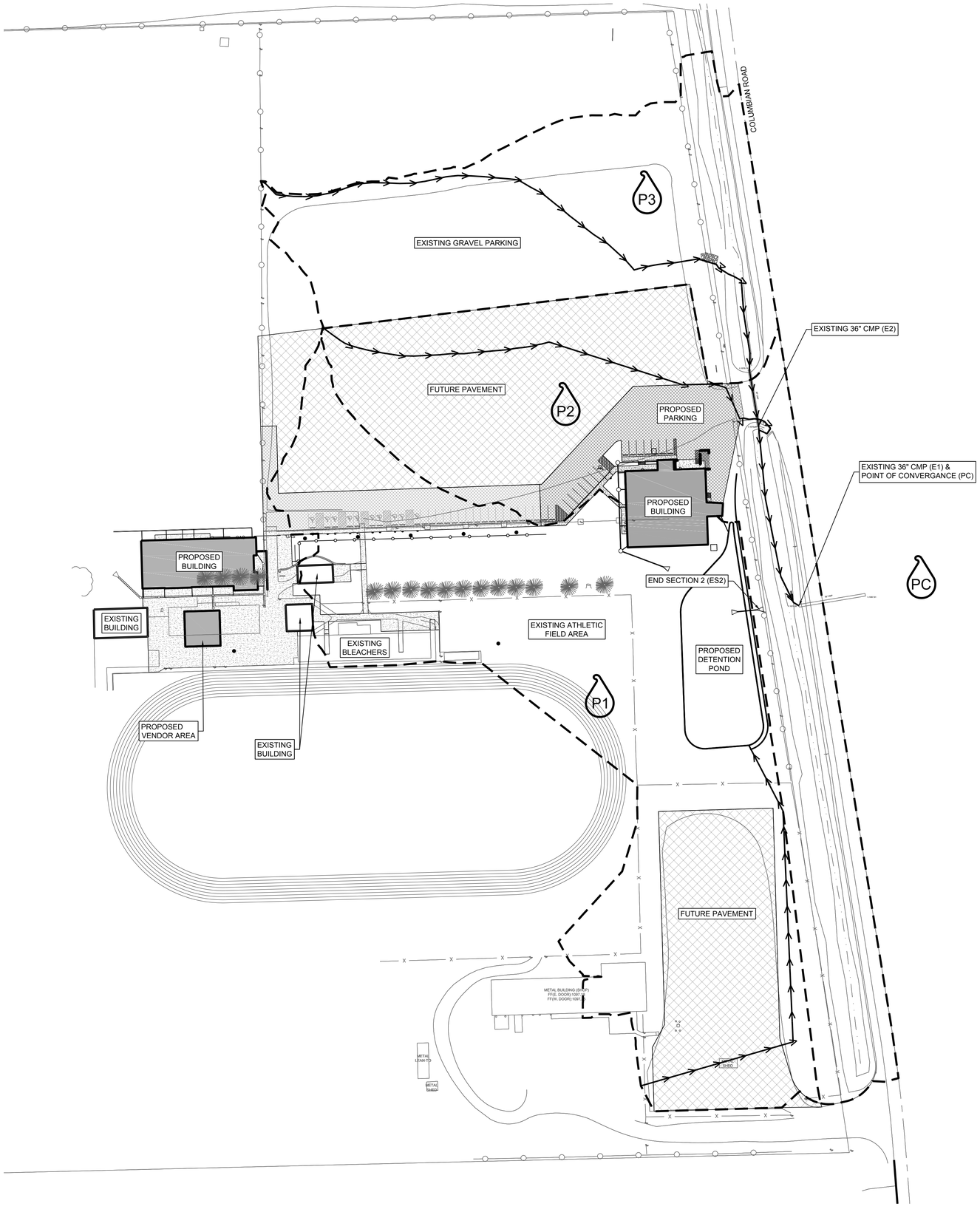
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

STORM WATER PLAN & PROFILE

Sheet: **C5**

Of:



DRAINAGE MAP KEY								
MAP ID.	STRUCTURE ID.	DRAINAGE AREA (ACRES)	RUNOFF COEFFICIENT	AVG. SLOPE (%)	LONGEST PATH LENGTH (FT)	TIME OF CONCENTRATION (MIN)	Q_{10} (CFS)	V_{10} (FPS)
P1	ES2	5.04	0.54	2.3	520	8	1.9	5.5
P2	E1	3.60	0.71	4.2	778	6	20.3	- -
P3	E2	2.49	0.50	4.3	701	12	7.3	1.5
PC	E1	11.13	0.59	3.5	991	6	25.2	4.3

LEGEND

POST-DEVELOPMENT FLOW PATH

POST-DEVELOPMENT DRAINAGE AREAS

XX MAP ID.

BBN

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 LOUK
LICENSED
23760
7-7-17
KANSAS
PROFESSIONAL ENGINEER

60' 30' 0' 60'
SCALE: 1" = 60'

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

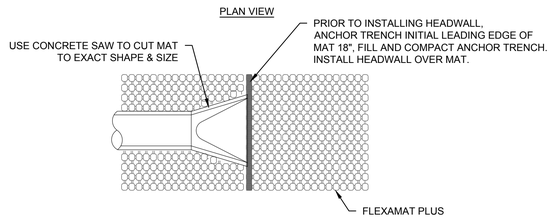
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

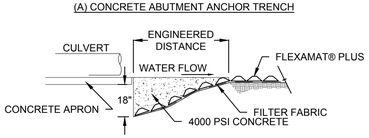
Sheet Title:
DRAINAGE MAP

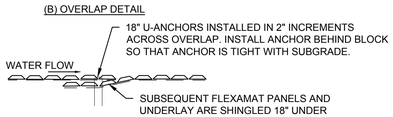
Sheet:
C6

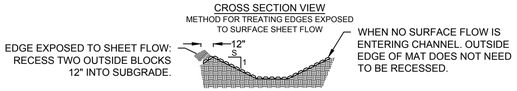
Of:

FLEXAMAT® EXISTING OUTLET DETAIL









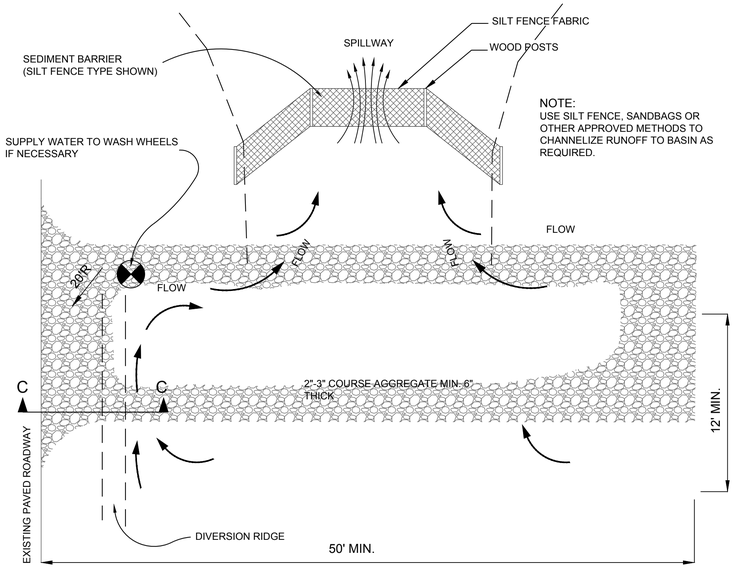
FLEXAMAT INFORMATION

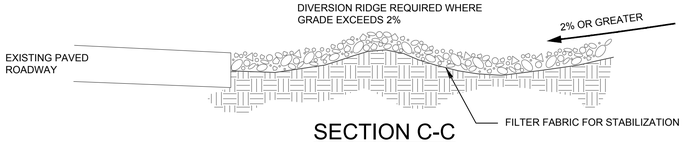
Manufacturer:	Motz Enterprises, Inc.
Product Name:	Flexamat®
Address:	3153 Madison Road Cincinnati, Ohio 45209
Telephone:	513-772-MOTZ (6689)
Fax:	513-772-6690
Contact:	Matt Motz
Email:	Matt@Flexamat.com
Website:	www.Flexamat.com

CONSTRUCTION NOTES:

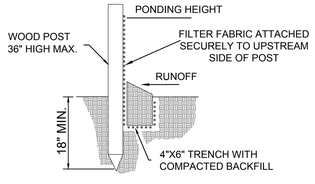
1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS.
4. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUBGRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
5. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
6. INSTALL 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR U-ANCHOR WITH 18" LEGS.
7. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL.

STABILIZED CONSTRUCTION ENTRANCE





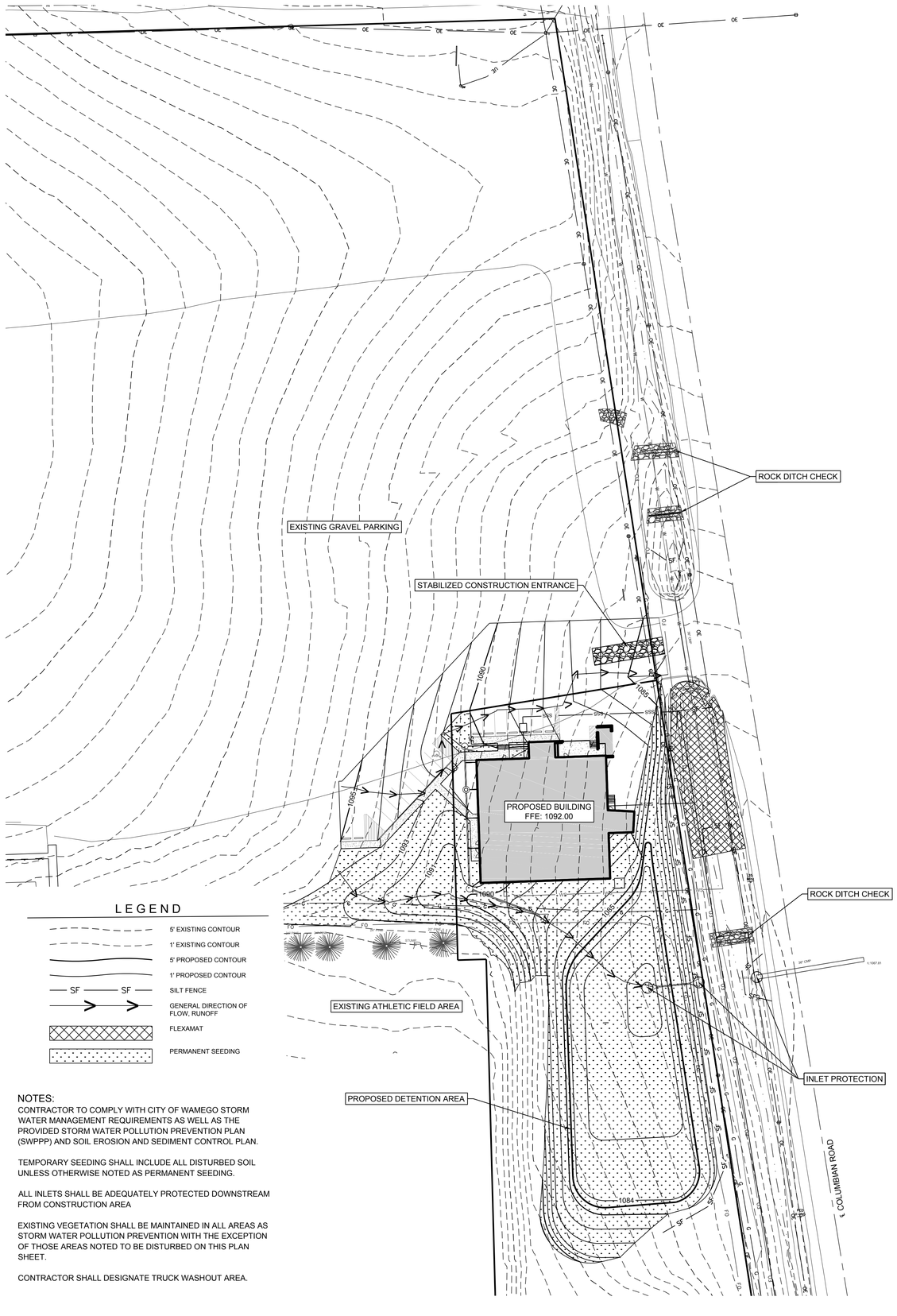
SECTION C-C



SILT FENCE BARRIER

NOTES:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.



NOTES:

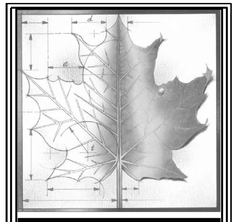
CONTRACTOR TO COMPLY WITH CITY OF WAMEGO STORM WATER MANAGEMENT REQUIREMENTS AS WELL AS THE PROVIDED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND SOIL EROSION AND SEDIMENT CONTROL PLAN.

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.

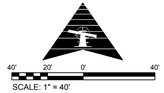
CONTRACTOR SHALL DESIGNATE TRUCK WASHOUT AREA.



BBN

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



REV	DESCRIPTION	DATE

Project Number:	16036
Date:	7/7/17

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

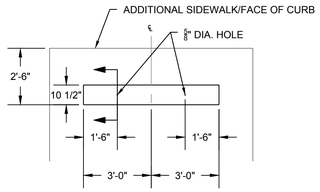
Sheet Title:

SESC PLAN

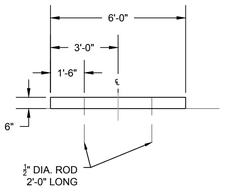
Sheet:

C7

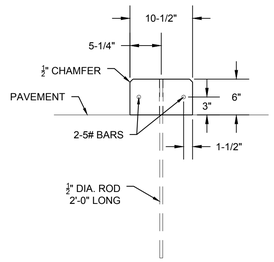
Of:



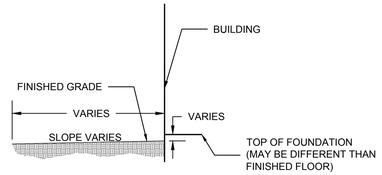
CONCRETE WHEEL STOP PLAN DETAIL
NOT TO SCALE



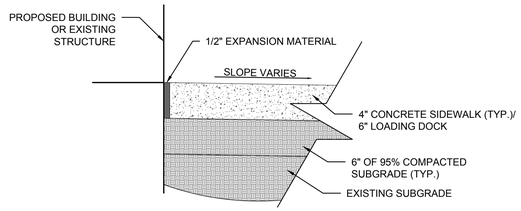
CONCRETE WHEEL STOP ELEVATION DETAIL
NOT TO SCALE



CONCRETE WHEEL STOP SECTION DETAIL
NOT TO SCALE



GRADE ADJACENT TO BUILDING DETAIL
NOT TO SCALE

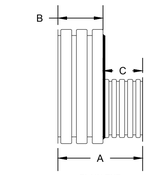


SIDEWALK ADJACENT TO BUILDING DETAIL
NOT TO SCALE

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.

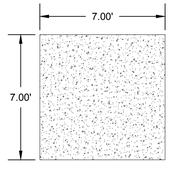


DUAL WALL FABRICATED REDUCERS
6"X4" - 12"X10" DIAMETER

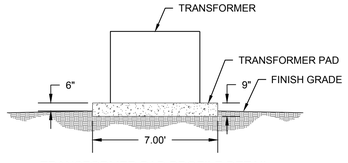
NOTE:

PROVIDE 3' MINIMUM CLEARANCE AT THE BACK AND SIDES AND 10' MINIMUM CLEARANCE AT THE FRONT OF THE TRANSFORMER.

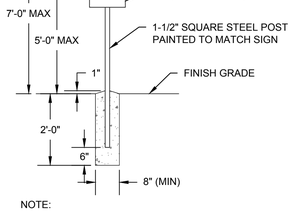
TRANSFORMER DOORS SHALL OPEN TOWARDS THE FRONT OF THE TRANSFORMER.



TRANSFORMER PAD PLAN DETAIL
NOT TO SCALE



TRANSFORMER PAD PROFILE DETAIL
NOT TO SCALE



NOTE:

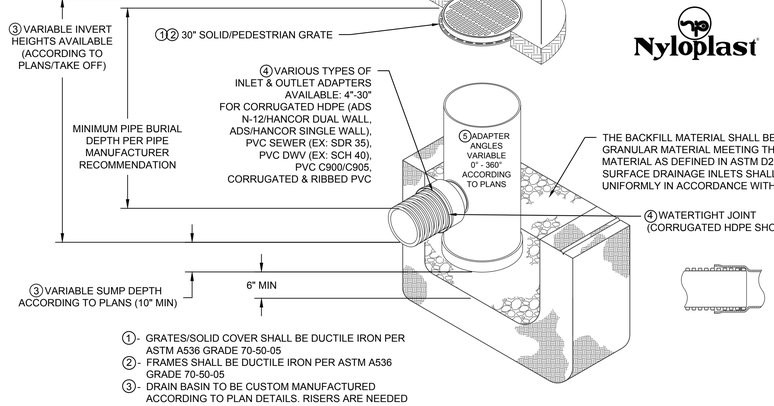
THE CONTRACTOR SHALL PROVIDE AN ACCESSIBLE PARKING SIGN FOR EACH ACCESSIBLE PARKING SPACE INDICATED.

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

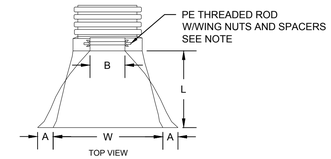
NYLOPLAST 30" DRAIN BASIN: 2830AG
NOT TO SCALE

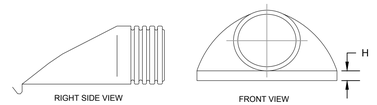


Nyloplast®

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

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.

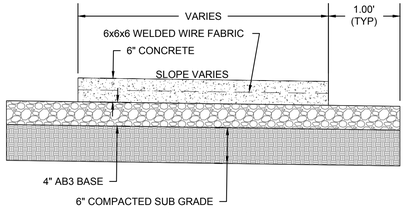




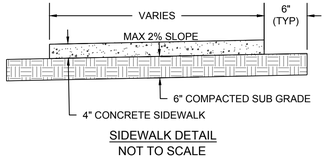
PART #	PIPE SIZE	A	B(MAX)	H	L	W
1210NP	12 in. (300 mm)	6.5 in (165mm)	10.0 in (254mm)	6.5 in (165mm)	25.0 in (635mm)	29.0 in (737mm)
1510NP	15 in (375mm)	6.5 IN (165mm)	10.0 in (254mm)	6.5 in (165mm)	25.0 in (635mm)	29.0 in (737mm)
1810NP	18 in (450mm)	7.5 in (191mm)	15.0 in (381mm)	6.5 in (165mm)	32.0 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

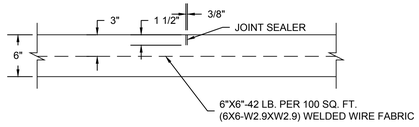
FLARED END SECTIONS



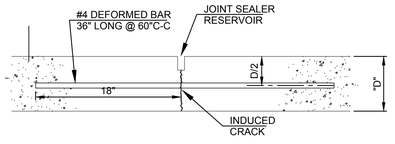
PARKING LOT PAVING DETAIL
NOT TO SCALE



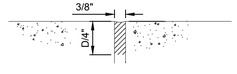
SIDEWALK DETAIL
NOT TO SCALE



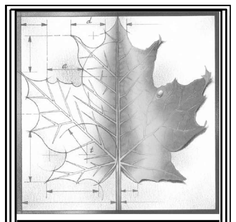
CONTRACTION JOINT DETAIL - 6" CONCRETE
NOT TO SCALE



CONSTRUCTION JOINT DETAIL
NOT TO SCALE



JOINT SEALER RESERVOIR
NOT TO SCALE



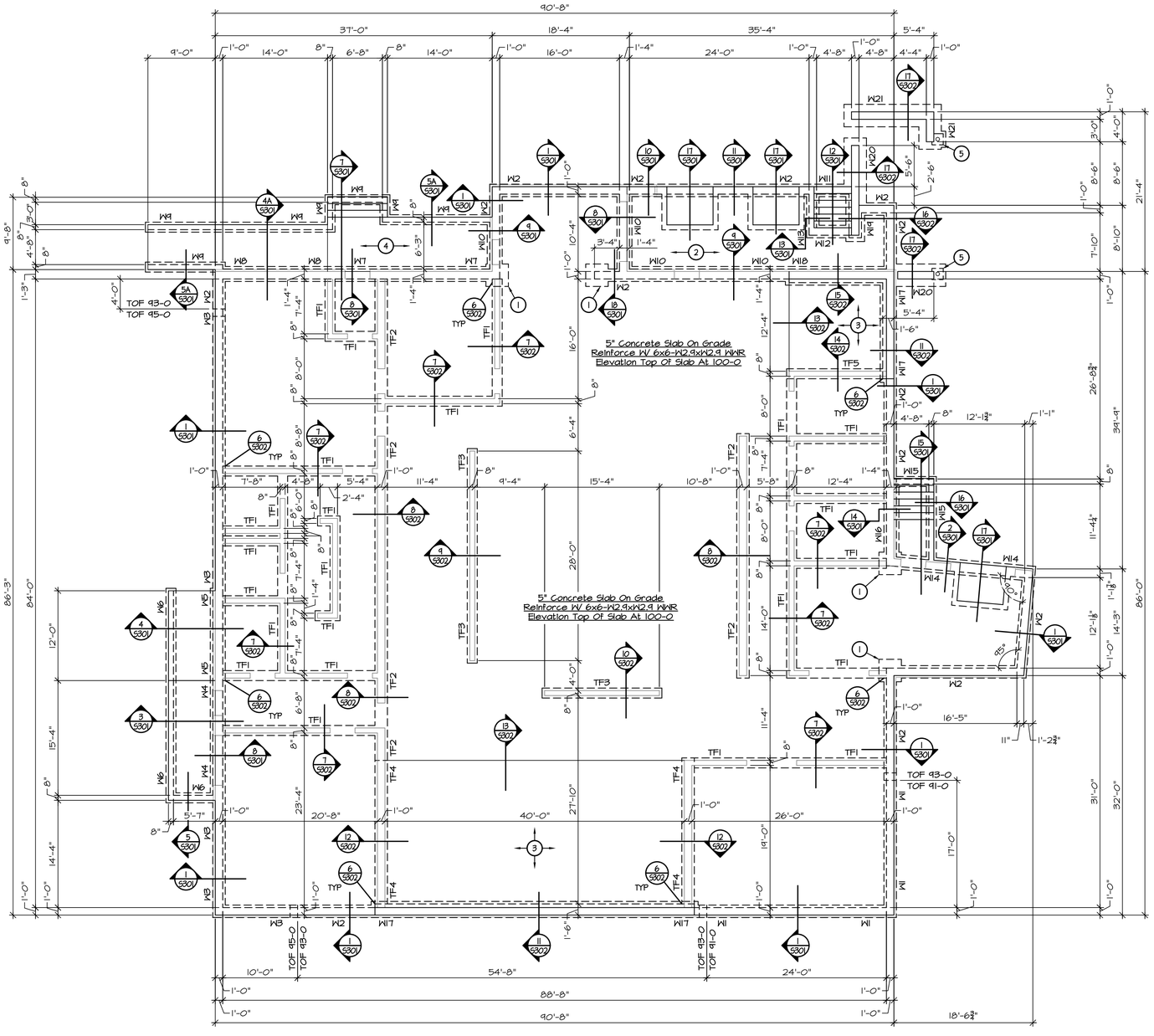
BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

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 WAMEGO-DISTRICT KITCHEN
Project Address: 4290 COLUMBIAN ROAD WAMEGO, KS
Sheet Title: MISCELLANEOUS DETAILS
Sheet: C8
Of:



NORTH

FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES:

1. See General Structural Notes, Sheet S201, For Additional Notes And Information.
2. Center All Wall Footings Below Foundation Walls, Unless Noted Or Shown Otherwise.
3. See Detail 1-S302 For Typical Slab Joints Detail.
4. See Details 3&4-S302 For Typical Foundation Details At Sleeve Penetrations Through Footings For Mechanical Or Electrical. See Mechanical And Electrical Plans For Locations Where Required.
5. See Detail 2-S302 For Typical Corner Bar Detail.
6. See Detail 5-S302 For Typical Stepped Wall Footing Detail.

PLAN MARKS:

TF# Trench Footing Mark, See Schedule On Sheet S202

W# Foundation Wall Mark, See Schedule On Sheet S202

KEYED PLAN NOTES:

(1) 3'-0"x3'-0"x12" Pad Footing Centered Below Steel Lintel Bearing. Foundation Wall Footing Reinforcement To Be Continuous Thru Pad Footing.

(2) 6" Concrete Slab On Grade With #5 At 12" o.c. Each Way On 2" High Chair With Plate At 36" o.c. Each Way. See Sections For Details.

(3) 4" Concrete Slab w/ 6x6-W2.1xW2.1 WWR On 4" Insulation On 5" Slab On Grade w/ 6x6-W2.9xW2.9 WWR, See Sections. Elevation Top Of 4" Slab At 100-0.

(4) 4" Concrete Slab On Grade With #3 At 12" o.c. Each Way On 2" High Chair With Plate At 36" o.c. Each Way. See Sections For Details.

(5) Provide 18"x18" Concrete Pilaster At Bollard. Reinforce Per Detail 18-S302.

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
316.263.3591 • www.dwa-pa.com

17045.02 S101 is t:\17-045\17-045.02\S-FOUNDATION 7/7/2017 [ND] [1:96]

RONALD L. BROWN — LICENSED — 8891 — 7/7/2017 — KANSAS — PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE

Project Number:	16036
Date:	7/7/17

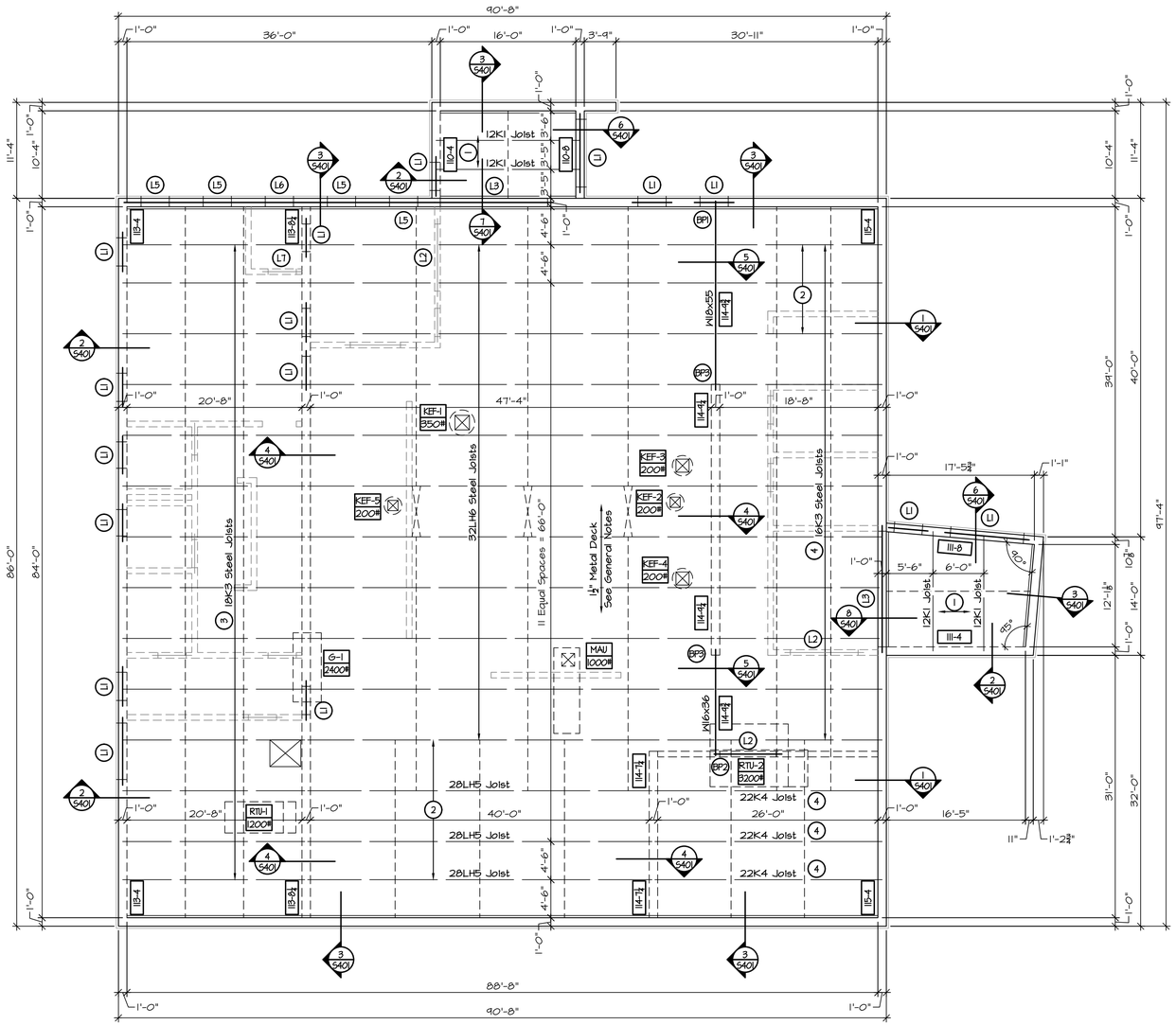
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
FOUNDATION PLAN

Sheet:
S101

Of:



NORTH

ROOF FRAMING PLAN

1/8" = 1'-0"

PLAN NOTES:

1. See General Structural Notes, Sheet S201, For Additional Notes And Information.
2. Fabricate All K Series Joists With 3½" Deep End Bearing. Fabricate All LH Series Joists With 5" Deep End Bearing.
3. Provide Horizontal Joist Bridging As Shown On Framing Plans And As Per SJI Specifications. Design The Roof Joists For The Uplift Wind Pressure To Comply With The Defined Components And Cladding Wind Design Pressure Tables And Notes On S201. Provide A Single Row Of Bottom Chord Horizontal Bridging At The First Bottom Chord Panel Point At Each End Of Each Roof Joist.
4. See Detail 9-S402 For Typical Openings In The Roof Deck. See Mechanical, Electrical And Architectural For Size And Location Of Openings Not Noted Or Shown On Framing Plans. Roof Drains Shall Be Considered A Roof Opening And Requires An Angle Frame. Fasten Roof Deck To Angle Framing At All Roof Deck Openings With the Specified Fastener Spacing For Deck End Supports And Boundary Members.
5. See Detail 10-S402 For Miscellaneous Joist Load Detail. See Mechanical, Electrical And Architectural For Miscellaneous Loads Not Indicated On Structural Drawings, Typical.
6. See Sheet S401 For Typical Framing Details.
7. Verify Size And Location Of All Roof Supported Mechanical Units With Mechanical Drawings And Mechanical Contractor. Design Steel Roof Joists For The Noted Additional Loads From The Mechanical Unit. Provide Angle Frame Per Detail 9-S402 Around Openings In Metal Roof Deck For the Mechanical Units.

PLAN MARKS:

XXX-XX — Elevation Top Of Beam, Joist Bearing Elevation

L# — Lintel Mark, See Schedule, Sheet S202

RTU # / XXXX# — Indicates Mechanical Unit, See Mechanical. Indicates Scheduled Weight Of Mechanical Unit

KEYED PLAN NOTES:

1. 1½" Metal Deck, See General Notes
2. Design Joist Bottom Chord For Continuous 50plf Vertical Force Due To Ceiling Panels Over Freezer
3. Fabricate East End Of Steel Roof Joists With A 5" Deep End Bearing Seat
4. Fabricate West End Of Steel Roof Joists With A 5" Deep End Bearing Seat

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.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316.263.7591 • www.dwaice.com

17045.02 S102 in I:\17-045\17-045.02\S-ROOF 7/7/2017 (MD) (1:96)

RONALD L. BROWN LICENSED 8891 PROFESSIONAL ENGINEER STATE OF KANSAS 7/7/2017

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name: USD 320 WAMEGO-DISTRICT KITCHEN

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.
Do not hang or attach any architectural, mechanical, or electrical elements or systems from the metal roof deck or any joist bridging unless specifically approved otherwise.
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 3,000 psf as recommended in the Geotechnical Investigation Report prepared by GSI Engineering, LLC, Job 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.
Steel joist, structural steel, and metal deck erection shall comply with OSHA Standard 29 CFR Part 1926, Subpart R and all other governing regulations. Steel joist and 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:

Building Occupancy Category: III

Dead: Weight of materials and construction plus weight of fixed service equipment

Live Load:	Floor Live Load:	
	First floor general areas:	100 psf
	Roof live load:	20 psf (non-reducible)
Snow:	Ground snow load:	Pg = 20 psf
	Flat-roof snow load:	Pf = 15 psf
	Drifting snow load:	ASCE 7-10
	Snow exposure factor:	Ce = 1.0
	Snow load importance factor:	I = 1.1
	Thermal factor:	Ct = 1.0
Wind:	Basic wind speed (3-second gust):	Vult = 120 MPH Ultimate Vasd = 93 MPH Nominal
	Wind exposure category:	C
	Internal pressure coefficient:	±0.18
Seismic:	Seismic importance factor:	I = 1.25
	Mapped spectral response accelerations:	
		Ss = 0.154
		S1 = 0.058
	Site class:	D
	Spectral response coefficients:	Sds = 0.169
		Sd1 = 0.093
	Seismic Design Category:	B
	Analysis procedure:	Equivalent lateral force
	Basic seismic-force res. system:	Ordinary Reinforced Masonry Shear Walls
	Response modification factor:	R = 2
	Seismic response coefficient:	Cs = 0.106
	Design base shear:	V = 0.106 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 visual inspection of all snug-tightened (Type ST) bolted connections.
   f. 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.
   g. Perform visual inspection and bend testing of headed stud shear connectors in compliance with AWS D1.1, Section 7.
   h. Perform visual inspection of the metal roof deck fastener installation.
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 observation of reinforcing for steel size, cover, spacing, positioning, lap lengths and locations.
   c. Perform inspection of the reinforcing for steel size, cover, spacing, positioning, lap lengths and locations at slabs on grade.
   d. Perform inspection of concrete placement for proper procedures for transporting, placing, consolidating, and finishing of concrete.
   e. Perform periodic inspection of concrete curing and protection procedures, including compliance with the hot and cold weather requirements defined in the specifications.
   f. 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 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.
   e. All post-installed adhesive anchor installations shall be tested to a torque equal to a minimum of 75 percent of the anchor manufacturer's defined installation tightening torque.
   f. Perform continuous anchor installation inspections for all post-installed anchors and reinforcing bars that are installed overhead with the anchor/reinforcing bar in a vertical position.

CAST-IN-PLACE CONCRETE

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

Footings:	3000 psi
Formed Foundation Walls:	4000 psi
Interior Floor Slabs:	3500 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 or aggregates 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 grade shall be 5 inches thick with 6x6-W2.9xW2.9 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.
Provide #3 spreader ties to properly position inside and outside wall vertical bars within the wall forms. Locate at top of walls and at mid height at 48" o.c. along length of walls.

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 steel 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, trench footing, and grade beam horizontal bars. Corner bars are not required in the wall footings, unless specifically indicated.
Fan main reinforcing around openings in the structural members. Do not field cut bars unless the Architect's approval is obtained.
Provide 2-#5, 4'-0" longer than opening dimension, on all sides of the openings in the slabs and walls.
Provide 250 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.
Provide bar supports for all bars in slabs cast on grade at a maximum of 4'-0" in each direction.
Mark each bundle of the reinforcing with weatherproof tags.
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 U.N.O., and shall meet ASTM C90. All 8" concrete masonry units shall have a minimum compressive strength of 1900 psi on the net area at 28-days and a net area compressive strength of 1500 psi. All 12" concrete masonry units shall have a minimum compressive strength of 2800 psi on the net area at 28-days and a net area compressive strength of masonry of 2000 psi.
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 an 8-inch deep bond beam at the top of all interior and exterior CMU walls, unless detailed otherwise.
Provide vertical masonry reinforcing galvanized bar positioners at 48 inches o.c. at each vertical reinforcing bar. Provide bar positioners to match the wall thickness, bar size, and bar position as required.
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 and joist bearing pockets in masonry walls solid with grout. Provide temporary forms on the inside or exposed face of the wall flush with the face of the wall to retain grout placement.
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."
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 headed studs and shear connectors shall meet ASTM A108and 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 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).
Where oversized holes are required or desired in steel framing members to accommodate the drill bit size on post-installed anchors, provide a 3/16" thick plate washer at each post-installed anchor location with a standard hole or 1/16" larger hole than the anchor diameter in the center of the plate washer. After the anchors and the steel framing members have been installed, add the plate washer on each anchor prior to installing the nut and tightening the anchor. After the anchor has been properly tightened, weld the plate washer to the steel framing member with a 3/16" fillet weld along each vertical edge of the plate washer.
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.
Provide an angle frame to support the metal deck at all openings greater than 9"x9". Provide an angle frame below the perimeter curb of all mechanical roof top units and around the deck openings below the mechanical units. Where the perimeter curb of the unit is perpendicular to the roof joists, provide L4x4x3/8 between the joists and below the curb. Where the perimeter curb of the unit is parallel to the roof joists, provide L4x4x3/8 between the joists at a maximum spacing of 6'-0" o.c. and provide L4x4x3/8 between the angles and below the curb. The contractor shall coordinate all mechanical unit sizes and locations.
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..
Use E80xx electrodes for the welding of all ASTM A706-60,000 weldable reinforcing bars or as required to comply with AWS D1.4.
Steel 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.
Stainless steel framing members shall be ANSI Type 304 austenitic stainless steel unless noted otherwise.
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.

STEEL JOISTS

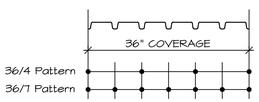
Open web and, or long span joists shall meet the latest specifications of the Steel Joist Institute (SJI), and shall be fabricated by a member of the SJI.
Steel joist spacing shall be as shown on the plans.
Weld all joists to steel bearing, where such bearing occurs, except where bolted connections are required to comply with the governing standards or regulations.
Where joist bearing conditions require nonstandard bearing ends, joist fabricator shall provide special bearing ends as required to accommodate such conditions and the provided bearing length.
Provide specially fabricated sloped end bearing on all roof joists with a roof slope greater than 1/4" per foot.
Provide erection bolts at locations per SJI specifications.
Suspension of any miscellaneous items from joists shall be only at top or bottom chord panel points unless otherwise indicated.
Joist fabricator shall provide joist bridging per SJI recommendations. See the plans and details for the special bridging and bracing requirements.
Joists shall be designed by the manufacturer for uniform loads as defined in the SJI load tables. The SJI defined uniform load also applies at top chord extensions and extended ends. Where noted on the plans or details, joists shall be designed for additional special loads as indicated. Any 1/3 stress increase for short-term loadings shall not be applied to the design of the joists.
Roof joists shall be designed by the manufacturer to support a 300 pound concentrated load applied to any single top or bottom chord panel point along the length of the joist.
All steel joist horizontal and diagonal bridging terminus points shall be attached to the supporting walls or the supporting framing members in an adequate manner to resist the horizontal bearing of said force.
Where roof joists top and bottom chord bridging members terminate at an interior or exterior concrete masonry block wall, the ends of the bridging members shall be attached to the face of the masonry walls per the typical bridging termination details.
Design roof joists for a rollover force across the joist bearing seat of 1,500 lbs.

METAL ROOF DECK

Metal deck shall be continuous over three or more spans. Roof deck shall be galvanized and shall conform to ASTM A924 and/or A653 with a minimum G60 coating. Metal roof deck is designed to resist diaphragm forces and shall be connected using size 12 screw fasteners to all supports. Side laps shall be connected using size 10 screw fasteners between supports, unless noted otherwise. Metal Deck shall be attached to all perimeter boundary members parallel with deck flutes with size 12 screws at 6 inches o.c., where such members occur. Deck shall be attached to all perimeter boundary members perpendicular with deck flutes with size 12 screws at each flute, where such members occur, unless noted otherwise. Steel frames at roof openings shall be considered perimeter boundary members. Partial deck sheets used to complete deck layout shall be attached to the supporting members at all flutes.

Metal Deck Type 1

Metal deck shall be 1 1/2", 22 gage wide rib deck. End lap joints shall be staggered a minimum of one joist spacing.
End laps shall be fastened through both pieces; at each side lap and all flutes between (36/1 pattern).
Intermediate supports that occur within the field of the roof shall be fastened at each side lap and at alternate flutes between (36/4 pattern).
Intermediate supports that occur within the roof corners and perimeter edge strips shall be fastened at each side lap and all flutes between (36/1 pattern). The perimeter edge strip/corner distance extends 9 feet from the perimeter edge of each individual roof plane.
Side laps shall have three size 10 screw fasteners between supports.



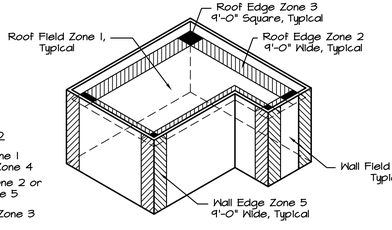
1½" Metal Deck Fastener Pattern

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.
Expansion anchors installed into concrete shall be wedge anchors equal to Hilti Kwik Bolt TZ Stud Anchor or Simpson Strong-Tie Strong-Bolt 2.
Expansion anchors installed into solid grouted masonry shall be wedge anchors equal to Hilti Kwik Bolt 3 Stud Anchor.
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.
All post-installed expansion anchors must be tightened to the anchor manufacturer's recommended installation torque.
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, is exposed to the exterior and weather in the completed building, or is exposed to a wet or humid environment such as in the cooling tower structure, 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 vertical and horizontal or longitudinal bars in concrete walls 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.



SCHEMATIC COMPONENTS AND CLADDING WIND PRESSURE ZONES DIAGRAM

ROOF COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURES

ZONE	ALL ZONES	NO OVERHANG			OVERHANG	
		ZONE 1	ZONE 2	ZONE 3	ZONE 2	ZONE 3
WIND AREA (FT²)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)
10	+14.1	-34.7	-58.1	-87.5	-49.9	-82.2
20	+13.2	-33.8	-52.0	-72.5	-44.0	-64.5
50	+12.0	-32.6	-43.8	-52.6	-47.9	-41.2
100	+11.2	-31.7	-31.6	-31.6	-47.0	-23.5

ROOF COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURE TABLE NOTES:

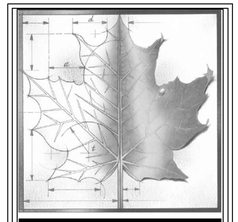
1. Positive pressures act inward to the building envelope.
2. Negative pressures act outward to the building envelope.
3. The use of linear interpolation is permitted for wind areas not shown.
4. Wind pressures indicated in table are gross ultimate wind pressures to be used with the load combinations 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			PARAPET			
ZONE	ZONE 4/5	ZONE 4	ZONE 5	ZONE 4		ZONE 5	
WIND AREA (FT²)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	CASE A (PSF)	CASE B (PSF)	CASE A (PSF)	CASE B (PSF)
10	+31.7	-34.4	-42.3	+84.9	-66.1	+119.2	-74.0
50	+28.5	-31.1	-35.8	+72.2	-54.5	+81.1	-64.2
100	+27.0	-29.7	-33.0	+64.6	-56.7	+64.6	-60.0
200	+25.6	-28.3	-30.1	+63.2	-53.9	+63.2	-55.8
500	+23.8	-26.4	-26.4	+61.4	-50.2	+61.4	-50.2

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.



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.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316.263.3500 • www.dwainc.com

17045.02 S201 is I:\17-045\17-045.02\S201 7/7/2017 [MD] [1:24]

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:

GENERAL STRUCTURAL NOTES

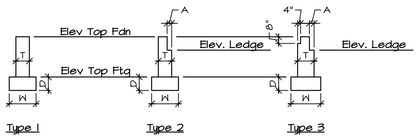
Sheet:

S201

Of:

WALL FOOTING AND FOUNDATION SCHEDULE

MARK	TYPE	FOOTING			FOUNDATION				REF. SECTION	REMARKS
		ELEV. TOP	WIDTH W	DEPTH D	ELEV. TOP	ELEV. LEDGE	DIMENSIONS T	DIMENSIONS A		
W1	1	91'-0	1'-8	1'-0	99'-4	-	1'-0	-	1-S301	
W2	1	93'-0	1'-8	1'-0	99'-4	-	1'-0	-	1-S301	10-S301, 11-S301, 18-S301
W3	1	95'-0	1'-8	1'-0	99'-4	-	1'-0	-	1-S301	
W4	1	95'-0	2'-0	1'-0	99'-4	-	1'-4	-	3-S301	
W5	2	95'-0	2'-0	1'-0	99'-4	98'-8	1'-4	0'-4	4-S301	
W6	1	95'-0	1'-4	1'-0	Varies	-	0'-8	-	3/5-S301	See 4-S301 At Ramp
W7	1	93'-0	2'-0	1'-0	99'-4	-	1'-4	-	7-S301	See 8-S301 At Door
W8	2	93'-0	2'-0	1'-0	99'-4	98'-8	1'-4	0'-4	4A-S301	
W9	1	93'-0	1'-4	1'-0	Varies	-	0'-8	-	5A-S301	See 7-S301 At Stair/4A-S301 At Ramp
W10	1	93'-0	2'-0	1'-0	99'-4	-	1'-4	-	9-S301	See 8-S301 At Door
W11	1	93'-0	1'-8	1'-0	95'-4	-	1'-0	-	12-S301	
W12	1	93'-0	1'-8	1'-0	98'-8	-	1'-0	-	12-S301	
W13	2	93'-0	1'-8	1'-0	99'-4	Varies	1'-0	0'-4	13-S301	
W14	1	93'-0	2'-0	1'-0	99'-4	-	1'-3	-	2-S301	See 15-S301 At Stair
W15	1	93'-0	1'-4	1'-0	Varies	-	0'-8	-	15/16-S301	
W16	2	93'-0	2'-0	1'-0	99'-4	Varies	1'-4	0'-4	14-S301	
W17	2	93'-0	2'-2	1'-0	100'-0	98'-8	1'-6	0'-6	11-S302	
W18	3	93'-0	2'-6	1'-0	100'-0	98'-8	1'-10	0'-6	15-S302	
W19	3	93'-0	2'-6	1'-0	103'-6	Varies	1'-10	0'-6	16-S302	
W20	1	93'-0	3'-0	1'-0	103'-6	-	1'-0	-	17-S301	
W21	1	93'-0	3'-0	1'-0	102'-0	-	1'-0	-	17-S301	

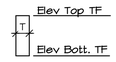


Type 1 Type 2 Type 3

Foundation Wall Types

TRENCH FOOTING SCHEDULE

MARK	TYPE	ELEV. BOTT	ELEV. TOP	ELEV. LEDGE	DIMENSIONS T	DIMENSIONS A	REF. SECTION	REMARKS
TF1	1	96'-0	99'-4	-	1'-4	-	1-S302	
TF2	1	96'-0	99'-4	-	1'-8	-	8-S302	
TF3	1	97'-8	99'-4	-	1'-4	-	9-S302	See 10-S302 At 4'-0" Tall Wall
TF4	1	96'-0	98'-8	-	1'-8	-	12-S302	
TF5	1	96'-0	98'-8	-	1'-4	-	14-S302	



TYPE 1

TRENCH FOOTING TYPES

BEARING PLATE SCHEDULE

TYPE 1

TYPE 2

MARK	MEMBERS	TYPE	REMARKS
BP1	PL 1x11x1-4 w/ 2-AB1	1	(1) (2)
BP2	PL 1x7x1-4 w/ 2-AB1	1	(1) (2)
BP3	PL 1x11x1-4 w/ 2-AB1	2	(1) (2)

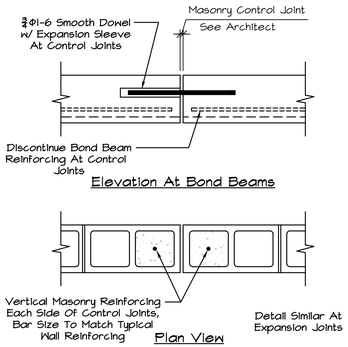
NOTE: Provide $1\frac{5}{16}$"Φ Holes In Bearing Plate For $\frac{3}{4}$"Φ Anchor Bolts.

AB1 - $\frac{3}{4}$"Φx1-8 Anchor Bolts (1'-8)

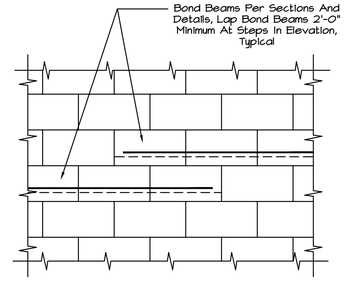
BEARING PLATE SCHEDULE REMARKS:

(1) Bolt Bearing Plate To Masonry Wall. Field Weld Beam To Bearing Plate. See Detail 11-S401

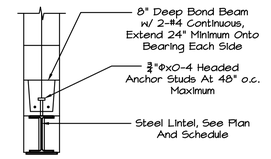
(2) Grout All Cores Solid Below Bearing Plate.



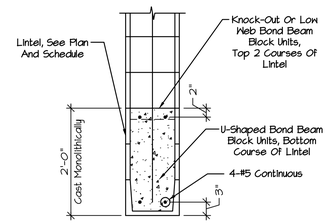
1 TYP. MASONRY C.J. DETAILS
No Scale



2 TYP. STEP BOND BEAM DETAIL
No Scale



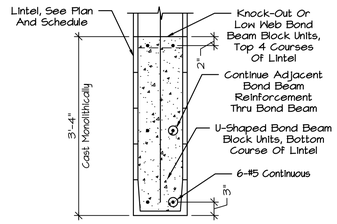
3 TYP. WIDE FLANGE LINTELS
No Scale



Notes:

1. Grout Bond Beam Lintel Solid For 24" Depth And Entire Length In One Monolithic Placement.
2. Provide Horizontal Joint Reinforcing At Each Course In Bond Beam Lintel (8" o.c.)
3. Provide 24" Bearing Length On Solid Grouted Cores At Each End Of Lintel. Lintel Shall Be Continuous Over Interior Supports.

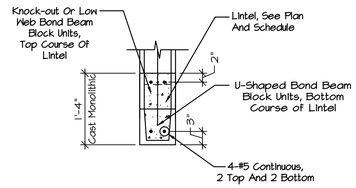
4 24" DEEP BOND BEAM LINTEL
No Scale



Notes:

1. Grout Bond Beam Lintel Solid For 40" Depth And Entire Length In One Monolithic Placement.
2. Provide Horizontal Joint Reinforcing At Each Course In Bond Beam Lintel (8" o.c.)
3. Provide 24" Bearing Length On Solid Grouted Cores At Each End Of Lintel. Lintel Shall Be Continuous Over Interior Supports.

5 40" DEEP BOND BEAM LINTEL
No Scale

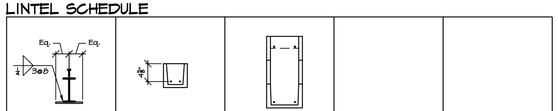


Notes:

1. Grout Bond Beam Lintel Solid For 16" Depth And Entire Length In One Monolithic Placement.
2. Provide Horizontal Joint Reinforcing At Each Course In Bond Beam Lintel (8" o.c.)
3. Provide 24" Bearing Length On Solid Grouted Cores At Each End Of Lintel.

6 16" DEEP BOND BEAM LINTEL
No Scale

LINTEL SCHEDULE

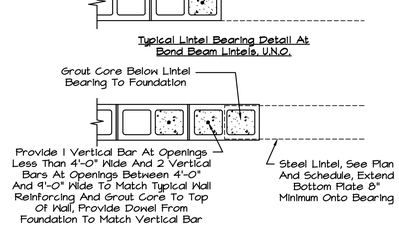


TYPE A TYPE B TYPE C TYPE D TYPE E

MARK	MEMBERS	TYPE	REMARKS
L1	W8x24 w/ PL $\frac{5}{16}$ x 11	A	
L2	W8x15 w/ PL $\frac{5}{16}$ x 7	A	
L3	W16x36 w/ PL $\frac{5}{16}$ x 11	A	
L4	8" Deep Bond Beam w/ 2-#5 Horizontal	B	
L5	24" Deep Bond Beam w/ 4-#5 Horizontal	C	See Detail 4-S202
L6	40" Deep Bond Beam w/ 6-#5 Horizontal	C	See Detail 5-S202
L7	16" Deep Bond Beam w/ 4-#5 Horizontal	C	See Detail 6-S202

LINTEL SCHEDULE NOTES:

1. Provide A Minimum Of 8" Bearing On Concrete Masonry At Each End Of Steel Lintel. Grout Cores Solid Below Bearing. At Locations Where Steel Lintels Bear Perpendicular To An 8" Wall, Provide 6" Bearing.
2. Provide Lintel L4 At Architectural, Mechanical, And Electrical Openings In 8" Interior Masonry Block, Non-Bearing Walls With A Maximum Opening Width Of 3'-4", U.N.O.
3. Provide Lintel L1 or L2 At Architectural, Mechanical, And Electrical Openings In Interior Masonry Block Walls With A Maximum Opening Width Greater Than 3'-4" And Less Than Or Equal To 8'-0".
4. Provide Lintel L1 At All Openings 6'-8" Or Less In Width In Exterior Masonry Walls. Notify Arch./Engineer Of Any Openings Greater Than 6'-8" In Width At Exterior Masonry Walls Which Are Not Shown On Plans.
5. Not All Lintels Required Are Shown On Structural Drawings. Refer To Architectural And Mechanical Drawings For Locations Of Additional Lintels. DO NOT Locate Any Mechanical Openings Directly Below Beam Bearing Plates Unless Specifically Approved Otherwise.
6. All Masonry Lintels Are To Extend 24" Beyond Jambs, Except Extend To Corner At Locations Where Corner Occurs 24" Or Less From Jamb. Provide Bond Beam And Corner Bar At Perpendicular Wall At Corners. Grout Cores Solid Below Lintel Bearing. See Detail 7-S202 For Additional Notes And Information.



Typical Lintel Bearing Detail At Bond Beam Lintels, U.N.O.

Typical Lintel Bearing Detail At Steel Lintels U.N.O.

7 TYP. LINTEL BEARING DETAILS
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
316.263.3591 • www.dwaire.com
17045.02 S202 in I:\17-045\17-045.02\S201 7/7/2017 [MD] [1:24]

RONALD L. BROWN LICENSED 8897 PROFESSIONAL ENGINEER STATE OF KANSAS 7/7/2017

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

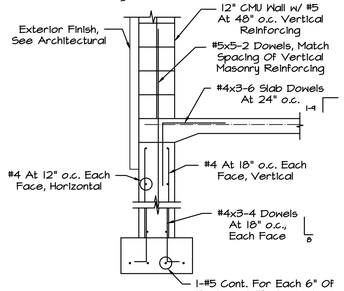
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

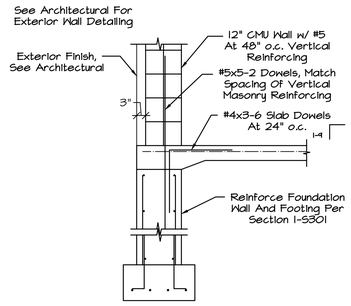
Sheet Title:
SCHEDULES AND DETAILS

Sheet:
S202

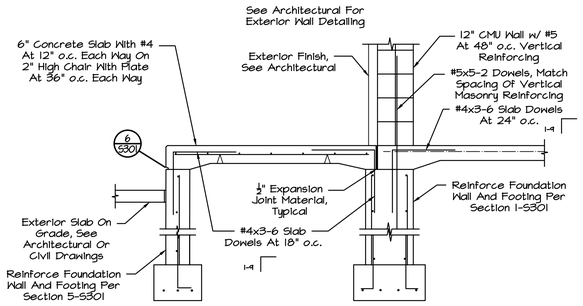
Of:



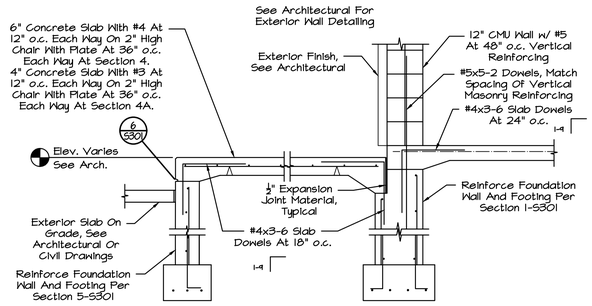
1 SECTION
1/2" = 1'-0"



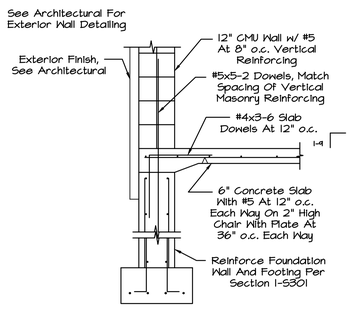
2 SECTION
1/2" = 1'-0"



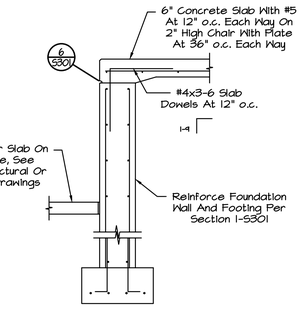
3 SECTION
1/2" = 1'-0"



4A 4 SECTION
1/2" = 1'-0"

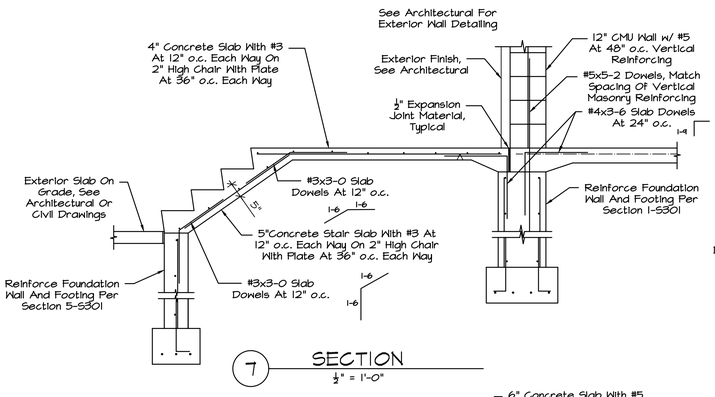


5A 5 SECTION
1/2" = 1'-0"

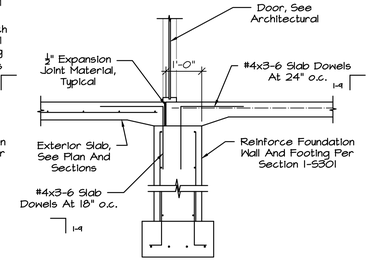


Provide Rustication Joint At All Slab To Foundation Wall Conditions Where Exposed To View

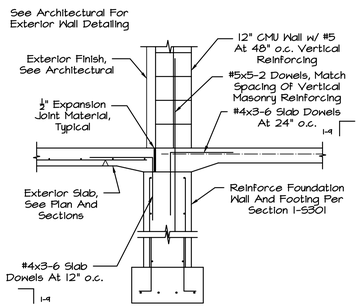
6 DETAIL
1" = 1'-0"



7 SECTION
1/2" = 1'-0"



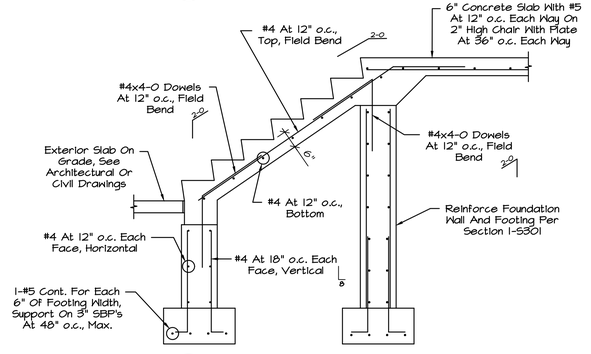
8 SECTION
1/2" = 1'-0"



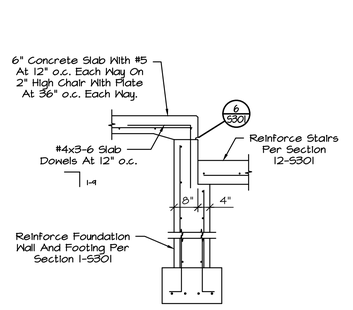
9 SECTION
1/2" = 1'-0"

10 SECTION
1/2" = 1'-0"

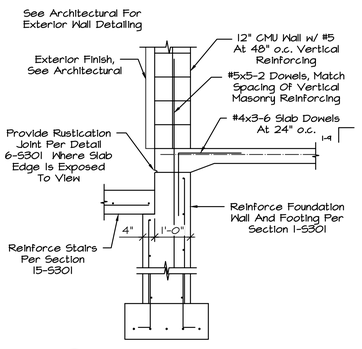
11 SECTION
1/2" = 1'-0"



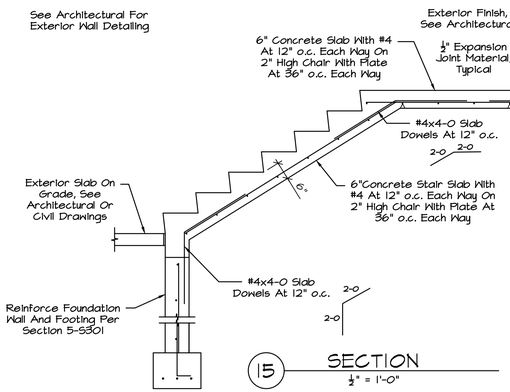
12 SECTION
1/2" = 1'-0"



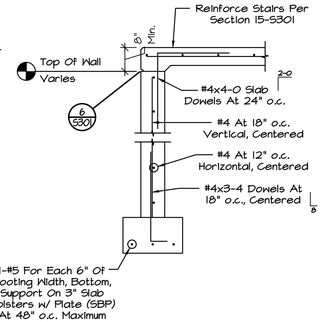
13 SECTION
1/2" = 1'-0"



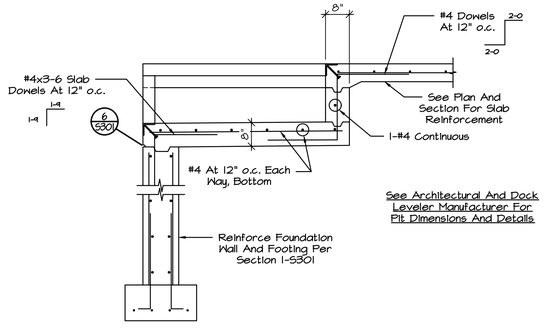
14 SECTION
1/2" = 1'-0"



15 SECTION
1/2" = 1'-0"

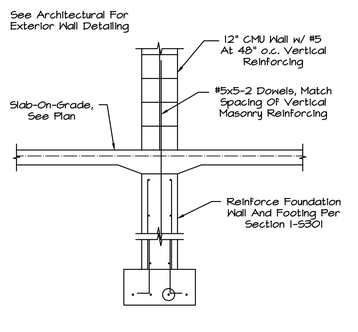


16 SECTION
1/2" = 1'-0"



See Architectural And Dock Leveler Manufacturer For Pit Dimensions And Details

17 SECTION
1/2" = 1'-0"



18 SECTION
1/2" = 1'-0"

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
316.263.3591 • www.dwaice.com

17045.02 S301 in I:\17-045\17-045.02\S301 7/7/2017 [MD] [1:24]

RONALD L. BROWN LICENSED 8897 PROFESSIONAL ENGINEER KANSAS 7/7/2017

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

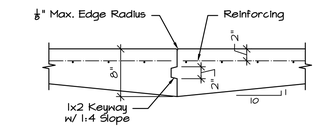
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

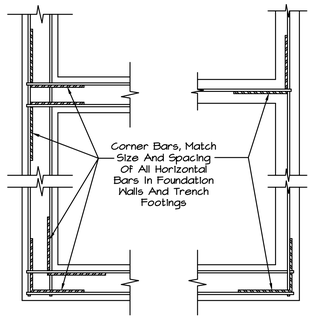
Sheet Title:
FOUNDATION SECTIONS AND DETAILS

Sheet:
S301

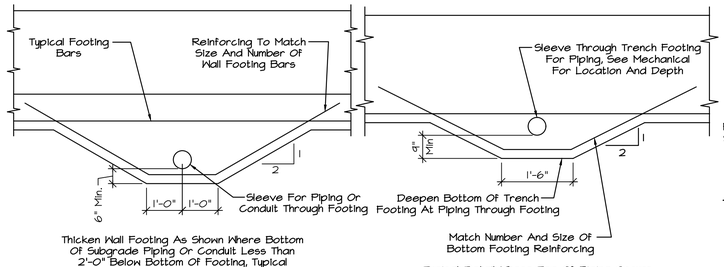
Of:



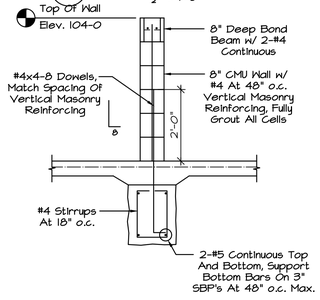
1 TYPICAL SLAB JOINT DETAILS
No Scale



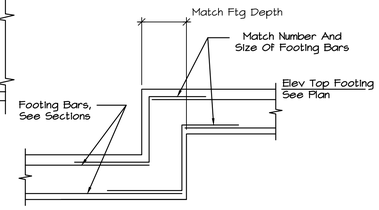
2 CORNER BAR DETAIL
No Scale



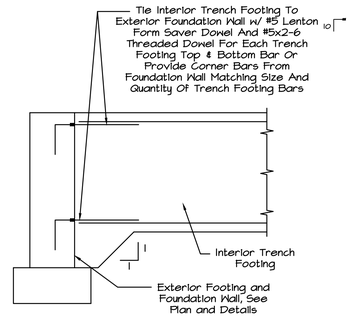
3 TYPICAL FOUNDATION DETAIL
1/2" = 1'-0"



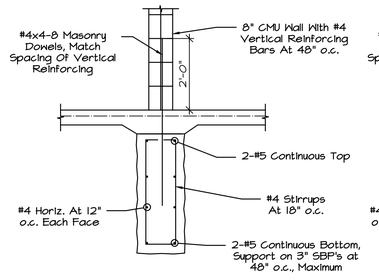
4 TYP. FOUNDATION DETAIL
1/2" = 1'-0"



5 STEPPED FOOTING DETAIL
1/2" = 1'-0"

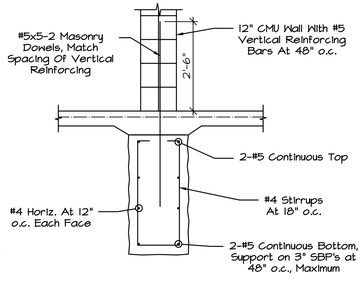


6 TYP. FOOTING DETAIL
No Scale



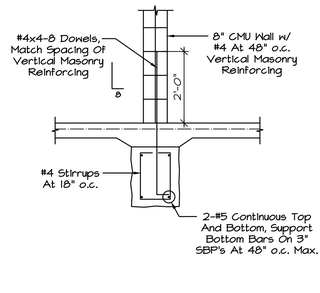
Center Trench Footing Below Masonry Wall, U.N.O.

7 SECTION
1/2" = 1'-0"



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

8 SECTION
1/2" = 1'-0"

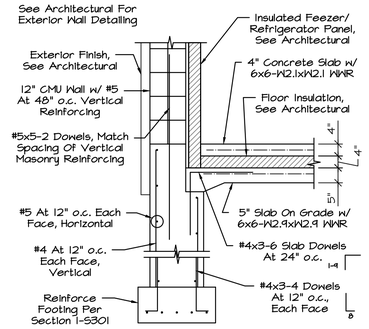


Center Trench Footing Below Masonry Wall, U.N.O.

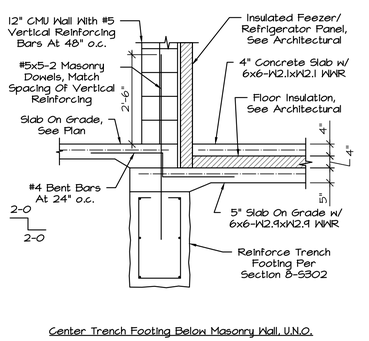
9 SECTION
1/2" = 1'-0"

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

10 SECTION
1/2" = 1'-0"

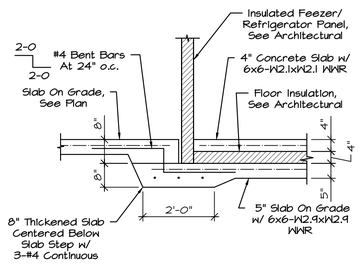


11 SECTION
1/2" = 1'-0"

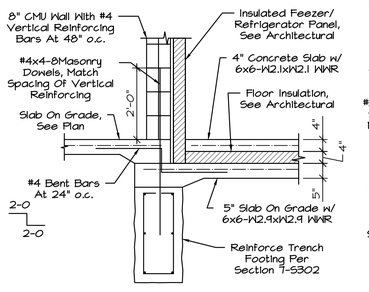


Center Trench Footing Below Masonry Wall, U.N.O.

12 SECTION
1/2" = 1'-0"

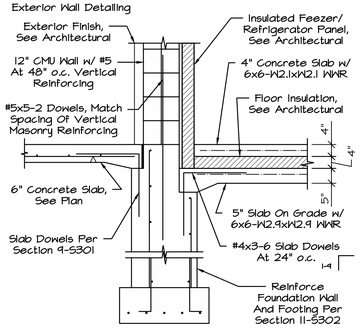


13 SECTION
1/2" = 1'-0"

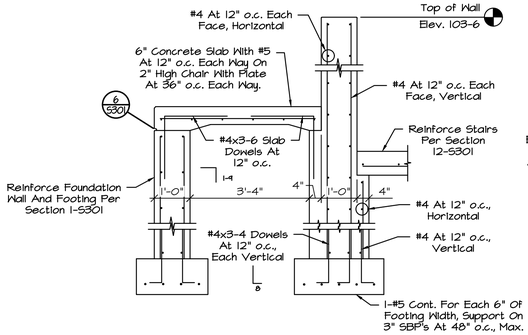


Center Trench Footing Below Masonry Wall, U.N.O.

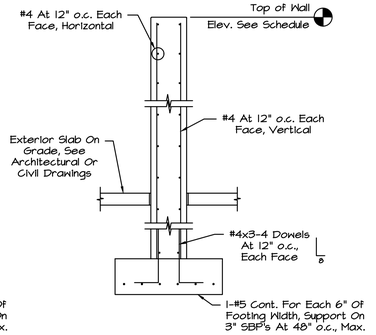
14 SECTION
1/2" = 1'-0"



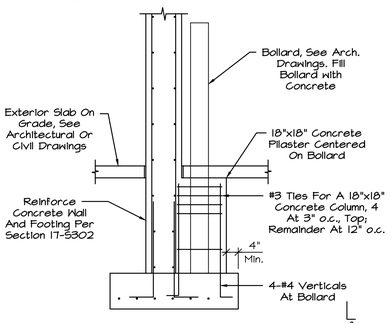
15 SECTION
1/2" = 1'-0"



16 SECTION
1/2" = 1'-0"



17 SECTION
1/2" = 1'-0"



18 DETAIL
1/2" = 1'-0"

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

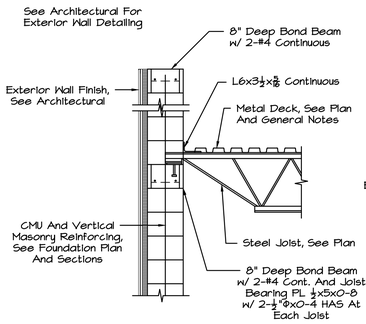
Dudley Williams and Associates, PA.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316.263.3591 • www.dwaire.com

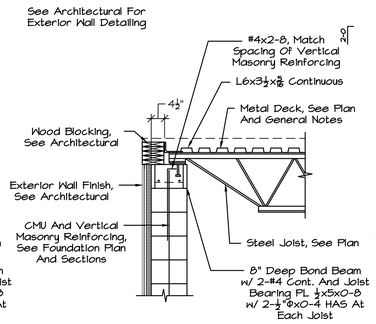
17045.02 S302 in I:\17-045\17-045.02\S301 7/7/2017 [MD] [1:24]

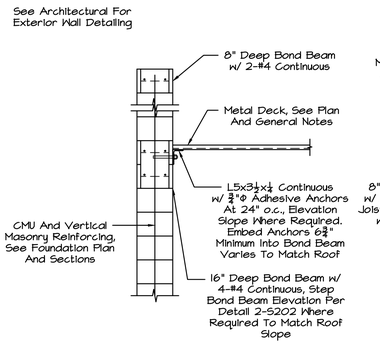
RONALD L. BROWN LICENSED 8899 PROFESSIONAL ENGINEER KANSAS 7/7/2017

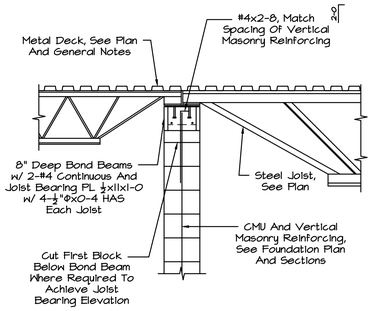
REV	DESCRIPTION	DATE

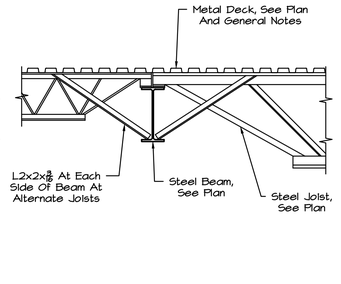
Project Number: 16036
Date: 7/7/17
Project Name: USD 320 WAMEGO-DISTRICT KITCHEN
Project Address: 4290 COLUMBIAN ROAD WAMEGO, KS
Sheet Title: FOUNDATION SECTIONS AND DETAILS
Sheet: S302
Of:

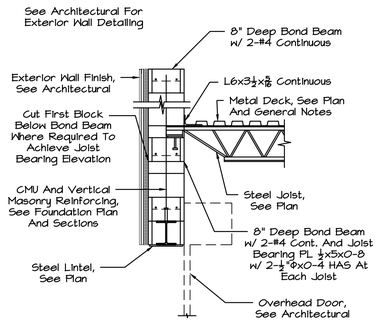




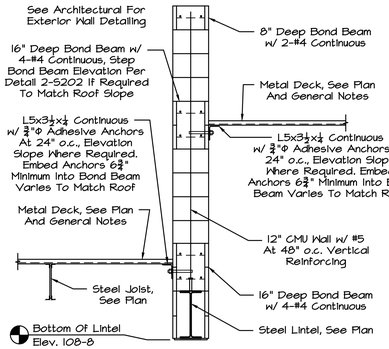




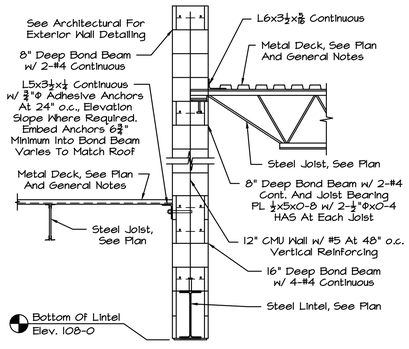




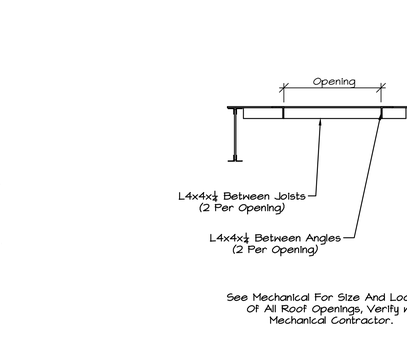
1 SECTION ½" = 1'-0"



2 SECTION ½" = 1'-0"



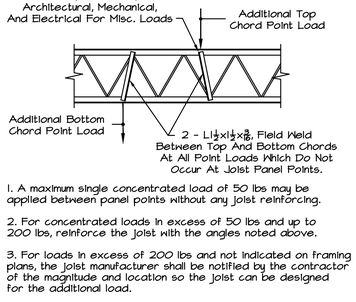
3 SECTION ½" = 1'-0"



4 SECTION ½" = 1'-0"

See Mechanical For Size And Location Of All Roof Openings, Verify w/ Mechanical Contractor.

5 SECTION ½" = 1'-0"



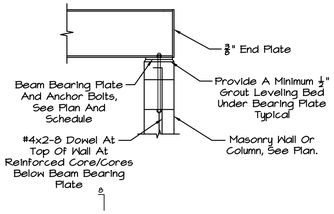
1. A maximum single concentrated load of 50 lbs may be applied between panel points without any joist reinforcing.

2. For concentrated loads in excess of 50 lbs and up to 200 lbs, reinforce the joist with the angles noted above.

3. For loads in excess of 200 lbs and not indicated on framing plans, the joist manufacturer shall be notified by the contractor of the magnitude and location so the joist can be designed for the additional load.

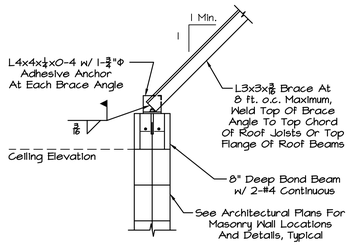
6 SECTION ½" = 1'-0"

Note:
Provide Vertical Masonry Reinforcing To Match Adjacent Wall Reinforcing At Minimum One Core Below Beam Bearing Plate. Provide Masonry Dowel At Foundation To Match Reinforcing



7 SECTION ½" = 1'-0"

Provide Top Of Masonry Wall Bracing At All Interior Masonry Walls Where The Length Of The Wall Between Corners Or Abutting Masonry Walls Is Greater Than 15 Ft.

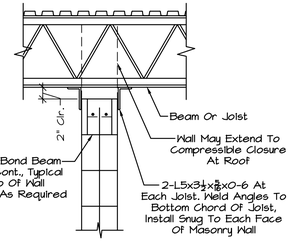


Typical Top Of Masonry Wall Brace Detail Where Interior Masonry Walls Extend ± 8" Above Ceiling Elevation Or As Noted On Architectural Drawings, Typical

12 TYP. WALL BRACE DETAIL
No Scale

8 SECTION ½" = 1'-0"

Provide Top Of Masonry Wall Bracing At All Interior Masonry Walls Where The Length Of The Wall Between Corners Or Abutting Masonry Walls Is Greater Than 15 Ft.

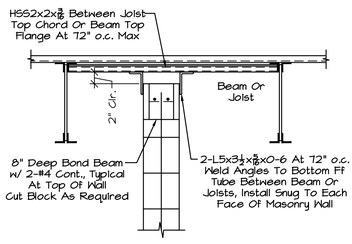


WALL PERPENDICULAR TO JOISTS

Top Of Wall Brace Detail At Full Height Non-Bearing Walls, Typical

13 TYP. WALL BRACE DTL.
No Scale

Provide Top Of Masonry Wall Bracing At All Interior Masonry Walls Where The Length Of The Wall Between Corners Or Abutting Masonry Walls Is Greater Than 15 Ft.



WALL PARALLEL TO JOISTS

Top Of Wall Brace Detail At Full Height Non-Bearing Walls, Typical

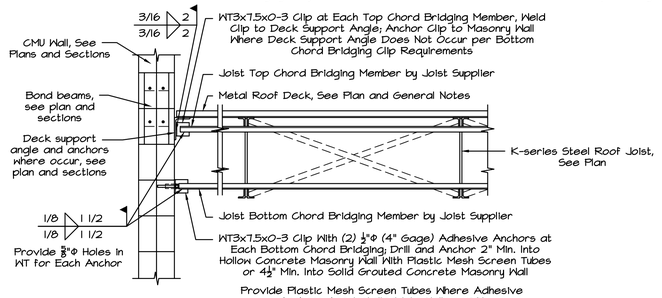
14 TYP. WALL BRACE DTL.
No Scale

9 TYPICAL ROOF OPENING DETAIL
No Scale

10 JOIST DETAIL @ POINT LOAD
No Scale

11 TYPICAL FRAMING DETAILS
No Scale

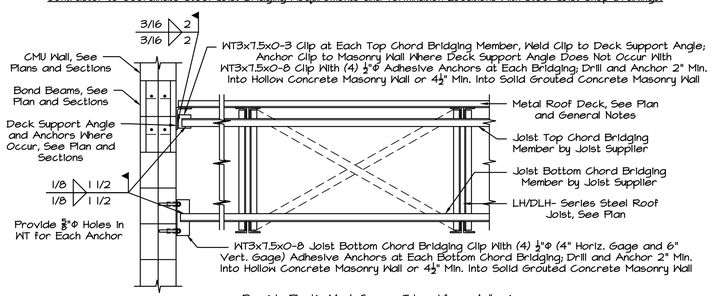
Typical K-series Steel Roof Joist Bridging Termination Detail at Concrete Masonry Walls, Unless Noted Otherwise. Contractor to Coordinate Steel Joist Bridging Requirements and Termination Locations With Steel Joist Shop Drawings.



TYPICAL K-SERIES ROOF JOIST BRIDGING TERMINATION DETAIL

15 TYPICAL BRIDGING TERMINATION DETAIL
No Scale

Typical LH/DLH-series Steel Roof Joist Bridging Termination Detail at Concrete Masonry Walls, Unless Noted Otherwise. Contractor to Coordinate Steel Joist Bridging Requirements and Termination Locations With Steel Joist Shop Drawings.



Provide Plastic Mesh Screen Tubes Where Adhesive Anchors Are Installed Into Hollow CMU

TYPICAL LH/DLH-SERIES ROOF JOIST BRIDGING TERMINATION DETAIL

16 TYPICAL BRIDGING TERMINATION DETAIL
No Scale

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.
2301 Laura • Suite 200 • Wichita, KS 67211-1514
316.263.3500 • www.dwace.com

17045.02 S401 in I:\17-045\17-045.02\S401 7/7/2017 [MD] [1:24]

RONALD L. BROWN LICENSED 8891 PROFESSIONAL ENGINEER KANSAS 7/7/2017

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
FRAMING SECTIONS AND DETAILS

Sheet: **S401**

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
GR.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
L.H.C.	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

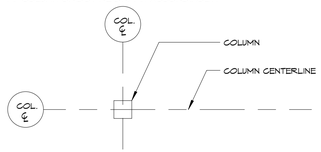
DIMENSIONING CRITERIA:

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

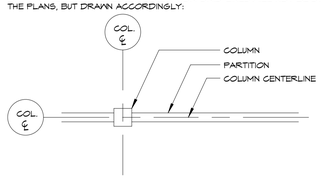
DIMENSIONS ARE AS IDENTIFIED ON THE DOCUMENTS AND AS ESTABLISHED BY CRITERIA. THIS INVOLVES ESTABLISHING TYPICAL RULES GOVERNING PARTITION LOCATIONS AND THEN DIMENSIONING ONLY THE EXCEPTION TO THESE RULES. TYPICAL DIMENSIONING CRITERIA ARE OUTLINED BELOW.

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

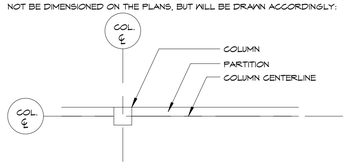
A. COLUMN GRIDS ARE DRAWN ACCORDINGLY:



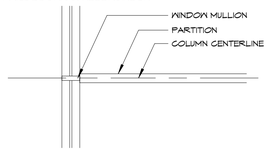
B. PARTITIONS CENTERED ON COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON THE PLANS, BUT DRAWN ACCORDINGLY:



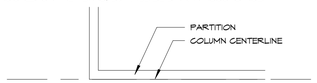
C. PARTITIONS WITH THE FINISHED FACE FLUSH WITH THE COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON THE PLANS, BUT WILL BE DRAWN ACCORDINGLY:



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:

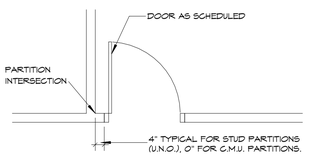


F. FOR OPENINGS IN PARTITIONS OR WALLS:

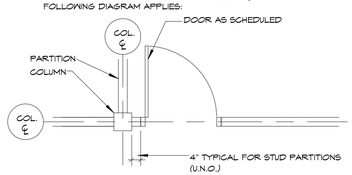
1. WHEN ONE OCCURS AT A COLUMN OR GRID LINE, NO DIMENSIONS WILL BE SHOWN ON THE PLANS, THE OPENING WIDTH WILL BE ESTABLISHED BY EITHER CRITERIA OR SCHEDULES.

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:

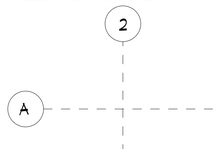


G. STUD PARTITIONS ARE DIMENSIONED FROM THE FACE OF ONE UNIT TO THE FACE OF ANOTHER UNIT. AT EXTERIOR WALLS DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF ANOTHER UNIT.

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:

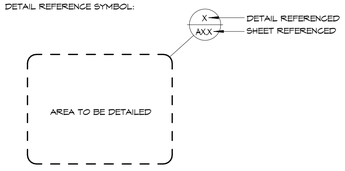
E. NORTH ARROW:

F. SPECIFICATION SECTION REFERENCE SYMBOL:

G. SPOT ELEVATION SYMBOL:

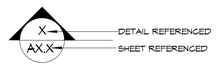
H. ELEVATION REFERENCE SYMBOL:

I. DETAIL REFERENCE SYMBOL:

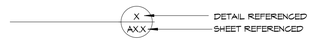


J. INTERIOR ELEVATION REFERENCE SYMBOL:

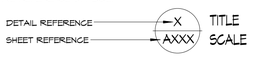
K. BUILDING SECTION REFERENCE SYMBOL:



L. DETAIL REFERENCE SYMBOL:



M. DETAIL REFERENCE SYMBOL:



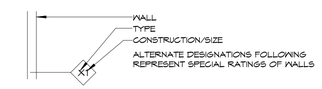
N. WINDOW REFERENCE SYMBOL:

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)

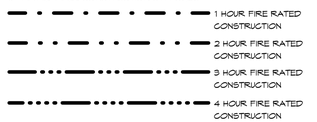


R. EXISTING ASSEMBLY

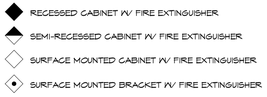
S. REVISIONS SYMBOLS:

T. DETAIL NOTE SYMBOL:

U. RATED WALL CONSTRUCTION SYMBOLS:

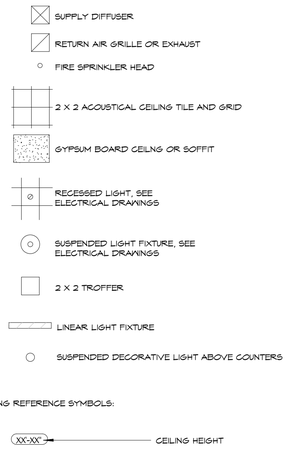


V. FIRE EXTINGUISHER IDENTIFICATION SYMBOLS:



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.

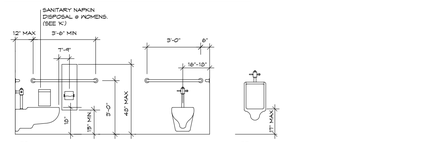
5. ALL FLOORS WITH DRAINS SHALL HAVE A MINIMUM OF 1/8" PER FOOT SLOPE TO DRAIN, U.N.O..

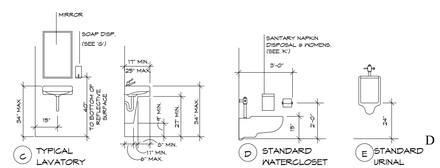
6. CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL EXISTING CONDITIONS AND NEW DIMENSIONS OF THE PROJECT AND CONFIRM SUCH TO BE APPROPRIATE AND COMPATIBLE WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY FOR CLARIFICATION OR ABOUT ANY CONDITION REQUIRING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

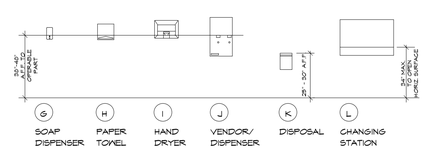
7. ALL EXPOSED C.M.U. CORNERS TO BE BULL NOSE. COORDINATE EXCEPTIONS WITH ARCHITECT.

NOTES- FULL LIST	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.2	CONCRETE STAIRS- SEE STRUCTURAL DRWG.
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
3.9	CONCRETE PAVEMENT- SIDEWALK
3.9	CAST-N-PLACE CONCRETE 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
4.6	SOLID GROUT
4.7	HORIZONTAL REINFORCING- SEE STRUCTURAL DRWG
4.9	MORTAR
4.10	CONTROL JOINT
5.1	GALVANIZED 2" O.D. GUARDRAIL WITH 1 1/2" O.D. HANDRAIL
5.2	GALVANIZED GUARDRAIL
5.3	GALVANIZED 1 1/2" O.D. HANDRAIL
5.4	STEEL REINFORCING- SEE STRUCTURAL
5.6	STEEL ANGLE- SEE STRUCTURAL DRWG.
5.8	STEEL ROOF DECK- SEE STRUCTURAL DRWG.
5.11	STEEL BAR JOISTS
5.15	STEEL LINTEL- SEE STRUCTURAL
5.17	GALVANIZED LINKED CHAIN WITH HASP
5.18	GALVANIZED 6" STEEL BOLLARD
5.18	GALVANIZED 4" STEEL BOLLARD
5.20	GALVANIZED STEEL TRASH GATE- 2" X 4" FRAME W/LOUVERS
6.1	1/2" PLYWOOD SHEATHING
6.8	CUSTOM CASEWORK
6.9	WOOD SHELVING W/ SHELVING STANDARDS
7.1	JOINT SEALANT
7.2	BACKER ROD AND SEALANT
7.5	APP MOD. BIT. ROOFING MEMBRANE
7.6	4" RIGID ROOF INSULATION
7.7	GANT STRIP
7.8	SHEET METAL FLASHING
7.10	SHEET METAL COUNTER FLASHING
7.12	TERMINATION BAR
7.15	1/2" COVER BOARD
7.16	5" ALUMINUM BOX GUTTER
7.18	MANUFACTURED METAL COPING
7.21	5" X 5" ALUMINUM DOWNSPOUT
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
7.26	E.I.F.S. WATER AND VAPOR BARRIER
8.1	ALUMINUM STOREFRONT
8.2	ALUMINUM STOREFRONT DOOR
8.3	HOLLOW METAL DOOR
8.4	HOLLOW METAL FRAME
8.5	ROOF ACCESS HATCH
8.8	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.11	GLASS TYPE 7- CLEAR TEMPERED
8.13	ALUMINUM STOREFRONT SILL PAN
8.14	ALUMINUM STOREFRONT DEFLECTION RECEPTOR
8.16	OVERHEAD COILING DOOR- MOTORIZED
9.7	TYPE 1 ACOUSTICAL CEILING TILE
9.8	TYPE 2 ACOUSTICAL CEILING TILE- KITCHEN
9.10	TYPE 2 SUSPENDED CEILING SYSTEM-KITCHEN
9.13	EXTERIOR ACRYLIC POLYURETHANE ENAMAL
9.17	8" PMG BASE
9.19	EXTERIOR PAVEMENT PAINT
10.1	36" GRAB BAR
10.2	42" GRAB BAR
10.14	DOCK LEVELER
10.15	DOCK SEALER
10.16	DOCK BUMPER
10.17	METAL AWNING
10.18	ADA PARKING SIGN
10.19	EXTERIOR SIGNAGE
11.1	WALK-IN REFRIGERATOR- SEE FOOD SERVICE DRWG.
11.2	WALK-IN FREEZER- SEE FOOD SERVICE DRWG.
11.3	WALK-IN COLD HOLD REFRIGERATOR- SEE FOOD SERVICE DRWG.
11.7	STANDING REFRIGERATOR- OWNER PROVIDED- N.I.C.
11.8	REFRIGERATOR CONDENSING UNIT- SEE FOOD SERVICE DRWG.
22.2	TOILET- SEE PLUMBING DRWG.
22.3	LAVATORY- SEE PLUMBING DRWG.
23.5	KITCHEN EXHAUST FAN- SEE MECH. DRAW.
23.6	ROOF TOP UNIT- SEE MECH. DRAW.
23.7	MAKEUP AIR UNIT- SEE MECH. DRAW.
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.
26.2	BACK-UP GENERATOR FOR REFRIG- SEE ELECTRAL DRWG.

TOILET ACCESSORIES KEY:







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

REV	DESCRIPTION	DATE

PATRICK A. SCHULTE
REGISTERED
KANSAS
PROFESSIONAL ARCHITECT
7/7/2017

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

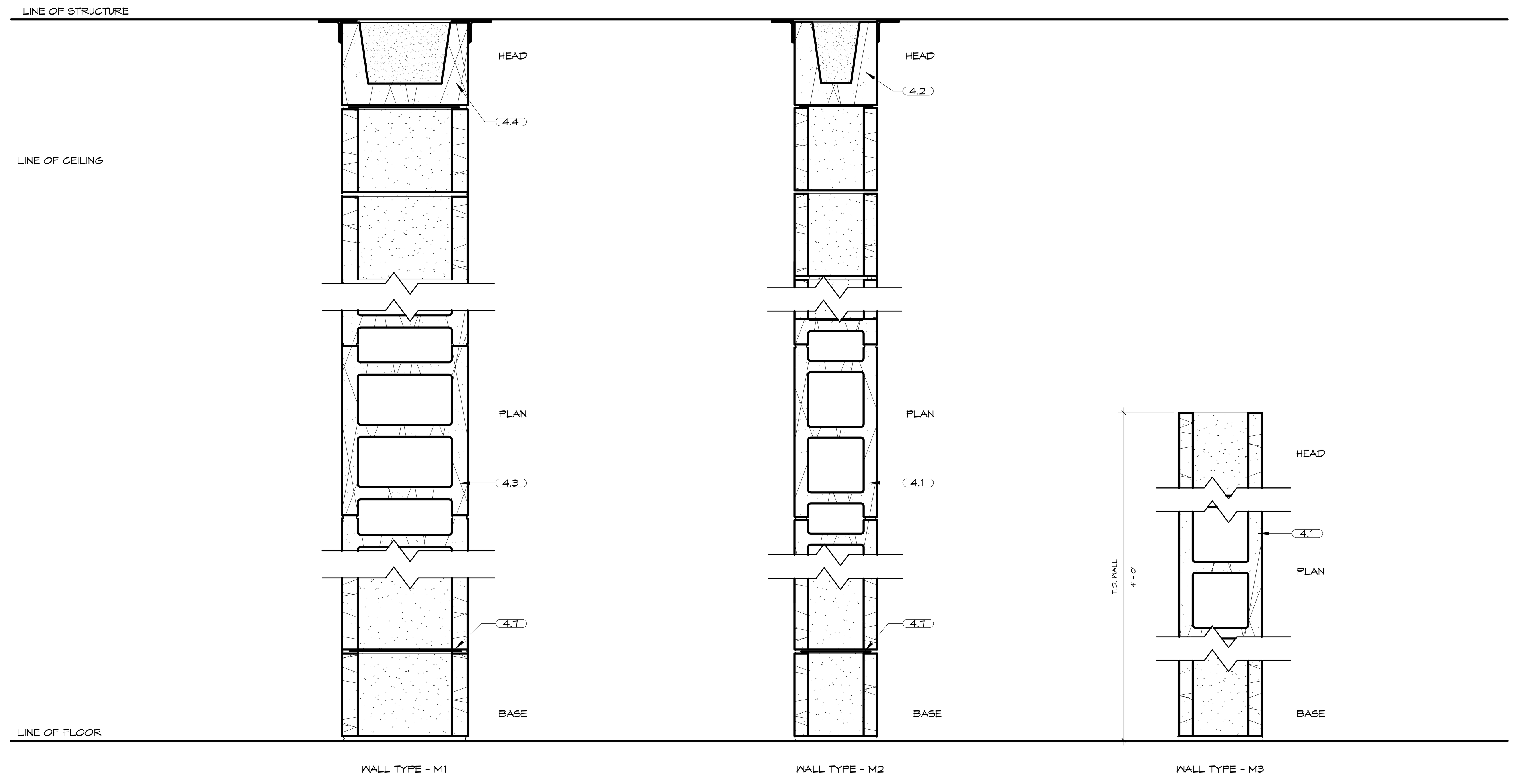
Sheet Title:

GENERAL INFORMATION

Sheet:

A001

Of:



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

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**

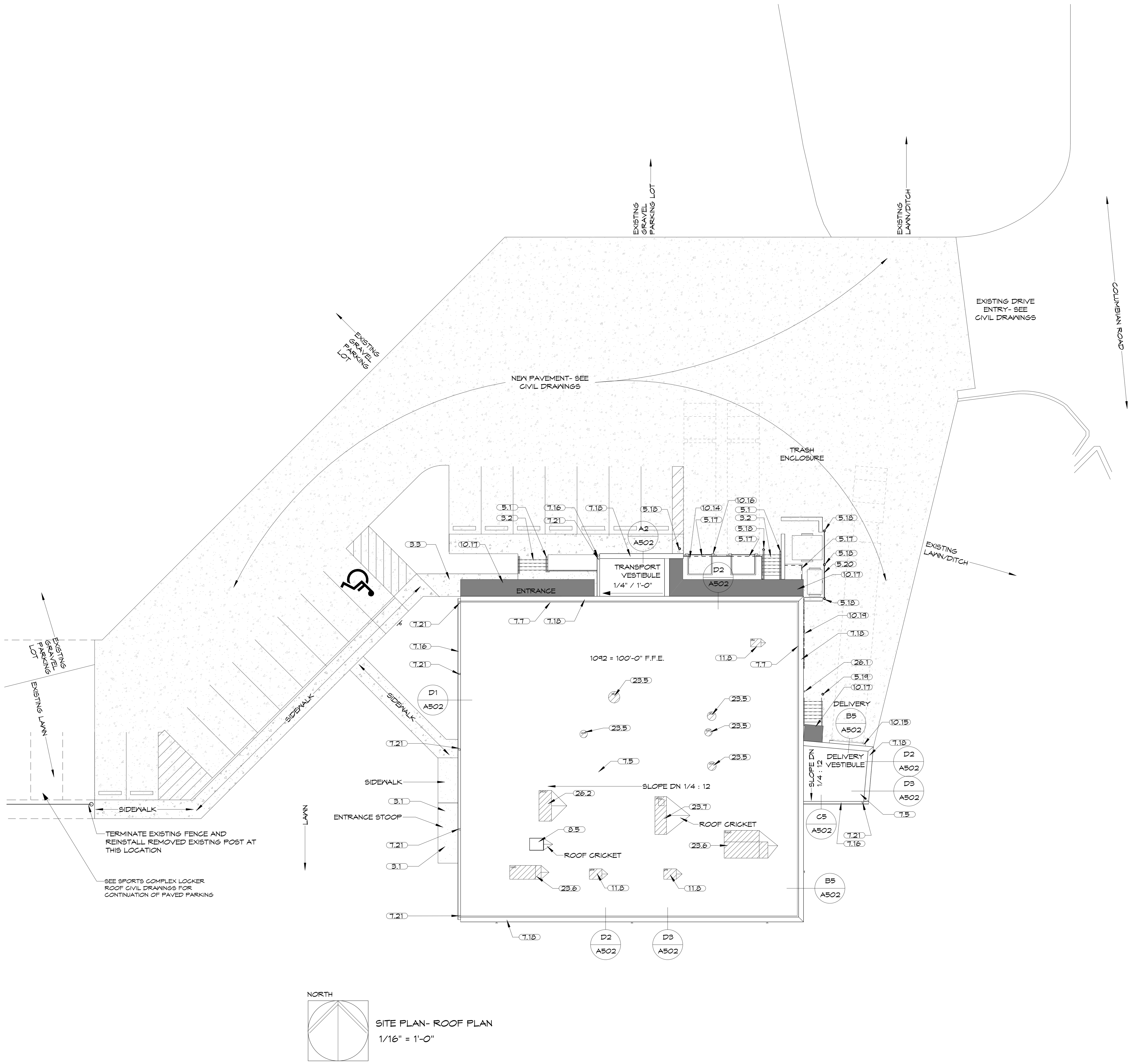
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

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

Sheet Title:
WALL TYPES

Sheet:
A002

Of:



SITE PLAN- ROOF PLAN
1/16" = 1'-0"

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.2	CONCRETE STAIRS- SEE STRUCTURAL DRWG.
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
5.1	GALVANIZED 2" O.D. GUARDRAIL WITH 1 1/2" O.D. HANDRAIL
5.17	GALVANIZED LINKED CHAIN WITH HASP
5.18	GALVANIZED 6" STEEL BOLLARD
5.19	GALVANIZED 4" STEEL BOLLARD
5.20	GALVANIZED STEEL TRASH GATE- 2" X 4" FRAME W/LOUVERS
7.5	APP MOD. BIT. ROOFING MEMBRANE
7.7	CANT STRIP
7.16	8" ALUMINUM BOX GUTTER
7.18	MANUFACTURED METAL COPING
7.21	5" X 5" ALUMINUM DOWNSPOUT
8.5	ROOF ACCESS HATCH
10.14	DOCK LEVELER
10.15	DOCK SEALER
10.16	DOCK BUMPER
10.17	METAL AWNING
10.19	EXTERIOR SIGNAGE
11.8	REFRIGERATOR CONDENSING UNIT- SEE FOOD SERVICE DRWG.
23.5	KITCHEN EXHAUST FAN- SEE MECH. DRAW.
23.6	ROOF TOP UNIT- SEE MECH. DRAW.
23.7	MAKEUP AIR UNIT- SEE MECH. DRAW.
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.
26.2	BACK-UP GENERATOR FOR REFRIG- SEE ELECTRAL DRWG.

BBN

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

REV	DESCRIPTION	DATE

PATRICK A. SCHAUB — KANSAS — PROFESSIONAL ARCHITECT — 7.7.17

Project Number: 16036

Date: 7/7/17

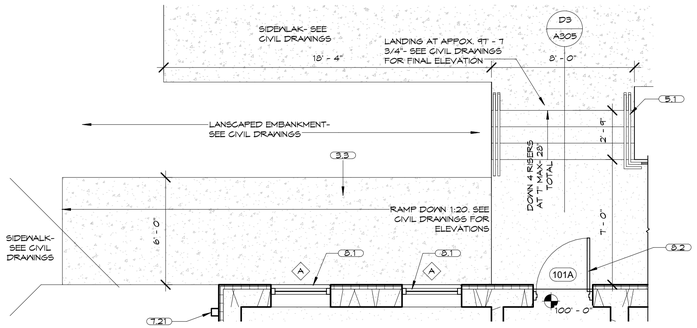
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD
WAMEGO, KS

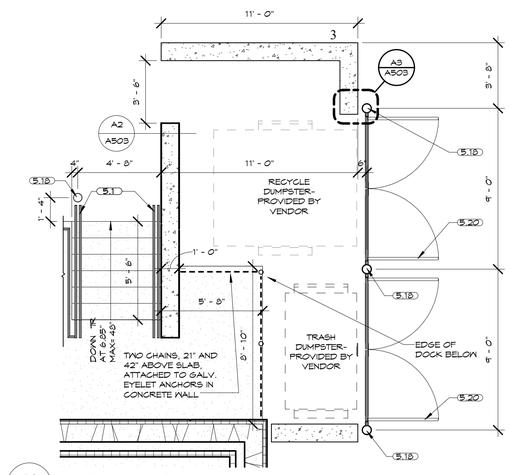
Sheet Title:
SITE PLAN

Sheet:
A101

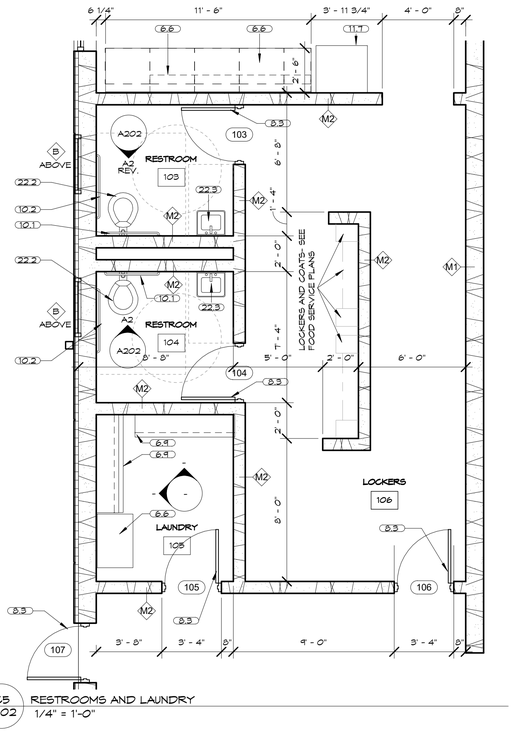
Of:



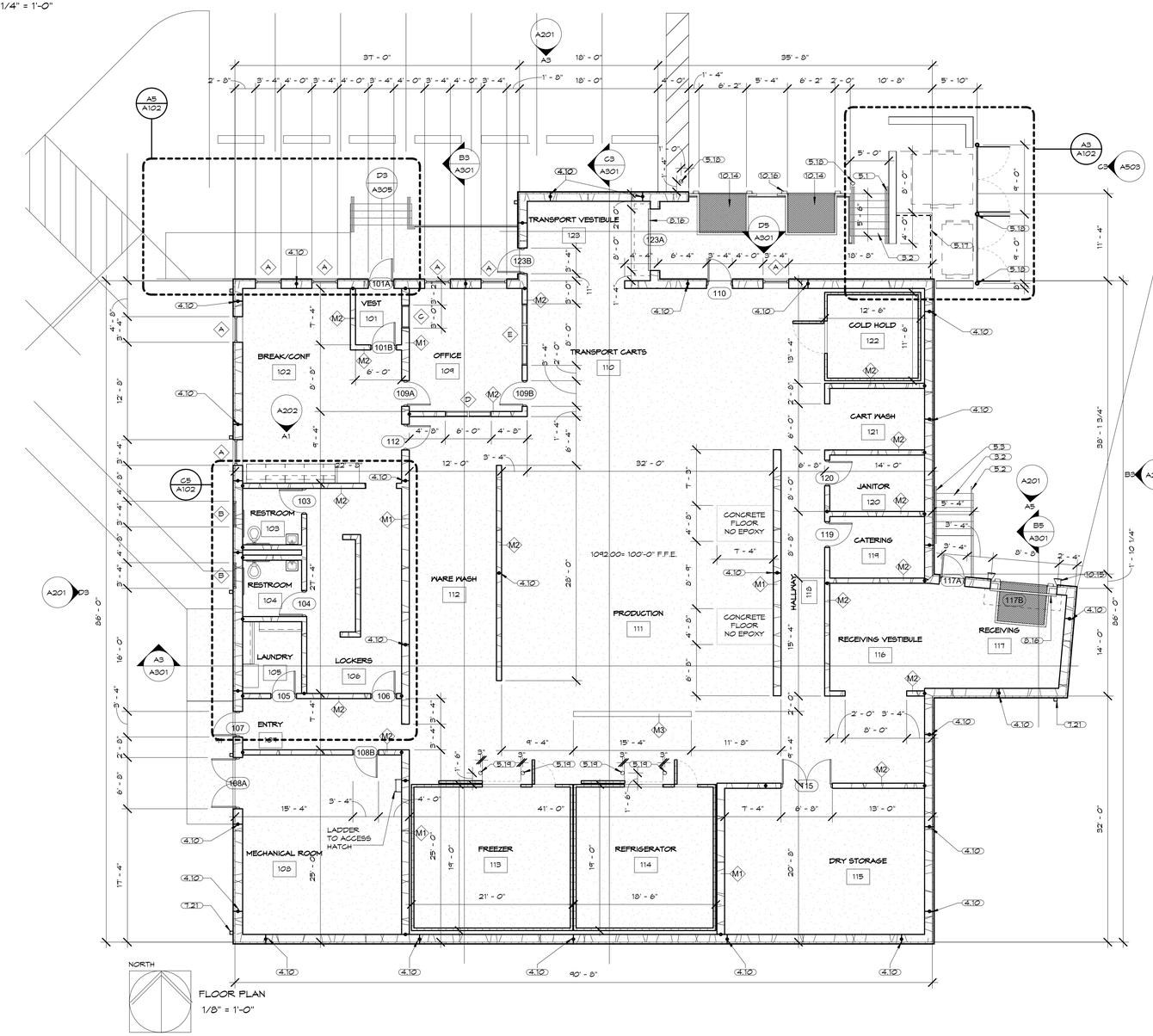
A5 A102 ENTRY SIDEWALK DETAIL
1/4" = 1'-0"



A3 A102 ENLARGED PLAN @ TRASH ENCLOSURE
1/4" = 1'-0"



C5 A102 RESTROOMS AND LAUNDRY
1/4" = 1'-0"



NORTH

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

NOTES	
3.2	CONCRETE STAIRS- SEE STRUCTURAL DRWG.
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
4.10	CONTROL JOINT
5.1	GALVANIZED 2" O.D. GUARDRAIL WITH 1 1/2" O.D. HANDRAIL
5.2	GALVANIZED GUARDRAIL
5.3	GALVANIZED 1 1/2" O.D. HANDRAIL
5.17	GALVANIZED LINKED CHAIN WITH HASP
5.18	GALVANIZED 6" STEEL BOLLARD
5.18	GALVANIZED 4" STEEL BOLLARD
5.20	GALVANIZED STEEL TRASH GATE- 2" X 4" FRAME W/LOUVERS
6.6	CUSTOM CASEWORK
6.9	WOOD SHELVING W/ SHELVING STANDARDS
7.21	5" X 5" ALUMINUM DOWNSPOUT
8.1	ALUMINUM STOREFRONT
8.2	ALUMINUM STOREFRONT DOOR
8.3	HOLLOW METAL DOOR
8.16	OVERHEAD COILING DOOR- MOTORIZED
10.1	36" GRAB BAR
10.2	42" GRAB BAR
10.14	DOCK LEVELER
10.15	DOCK SEALER
10.16	DOCK BUMPER
11.7	STANDING REFRIGERATOR- OWNER PROVIDED- N.I.C.
22.2	TOILET- SEE PLUMBING DRWG.
22.3	LAVATORY- SEE PLUMBING DRWG.

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

REV	DESCRIPTION	DATE

PATRICK A. SCHAFER
7-7-17
KANSAS
PROFESSIONAL ARCHITECT

Project Number:	16036
Date:	7/7/17

Project Name:
USD 320 WAMEGO- DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

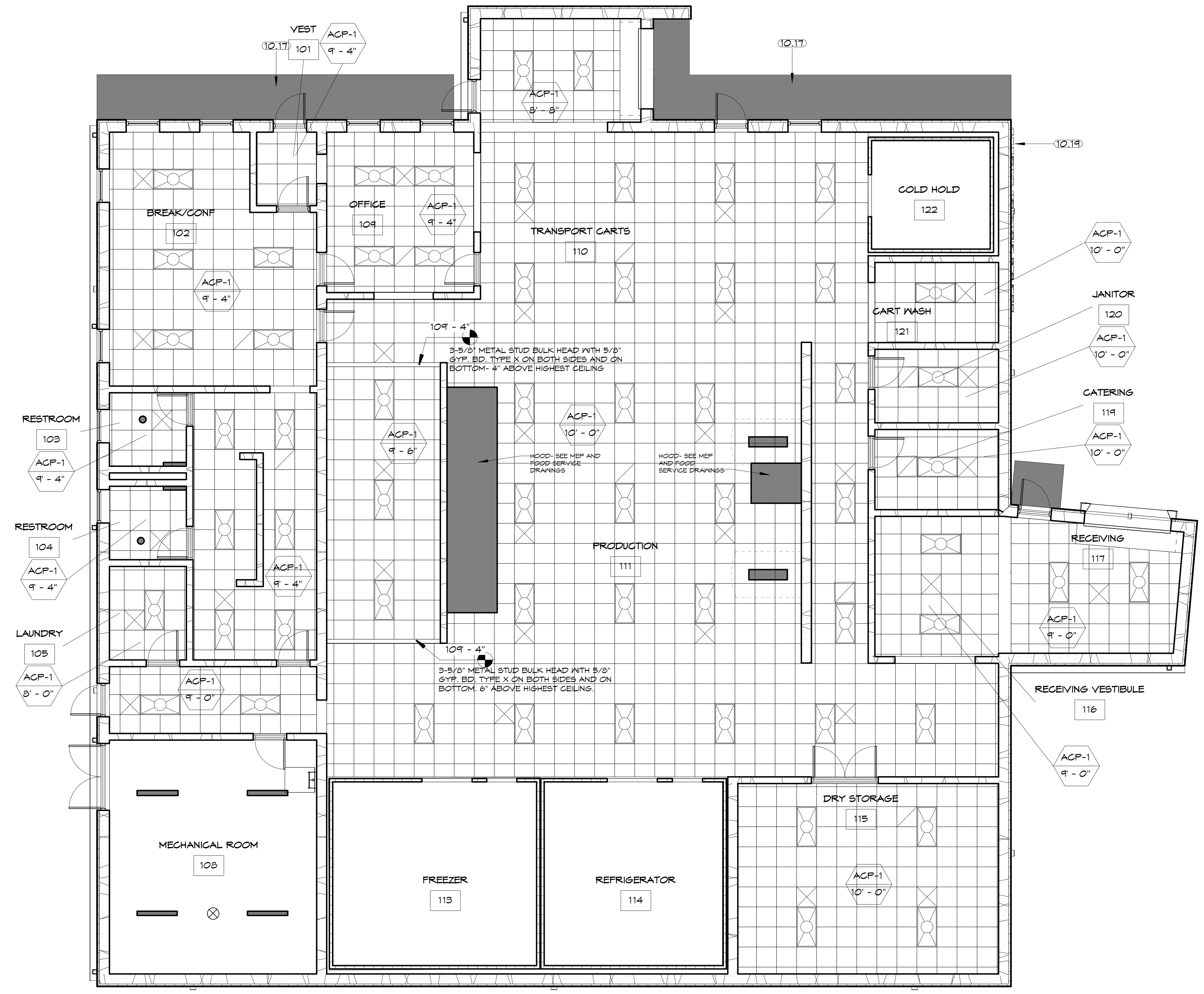
Sheet Title:
FLOOR PLAN

Sheet:
A102

Of:

5 4 3 2 1

A B C D



NORTH

REFLECTED CEILING PLAN
1/8" = 1'-0"

BBN

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

REV	DESCRIPTION	DATE

PATRICK A. SCHAUB 3875 KANSAS PROFESSIONAL ARCHITECT 7.7.17

Project Number:	16036
Date:	7/7/17

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:

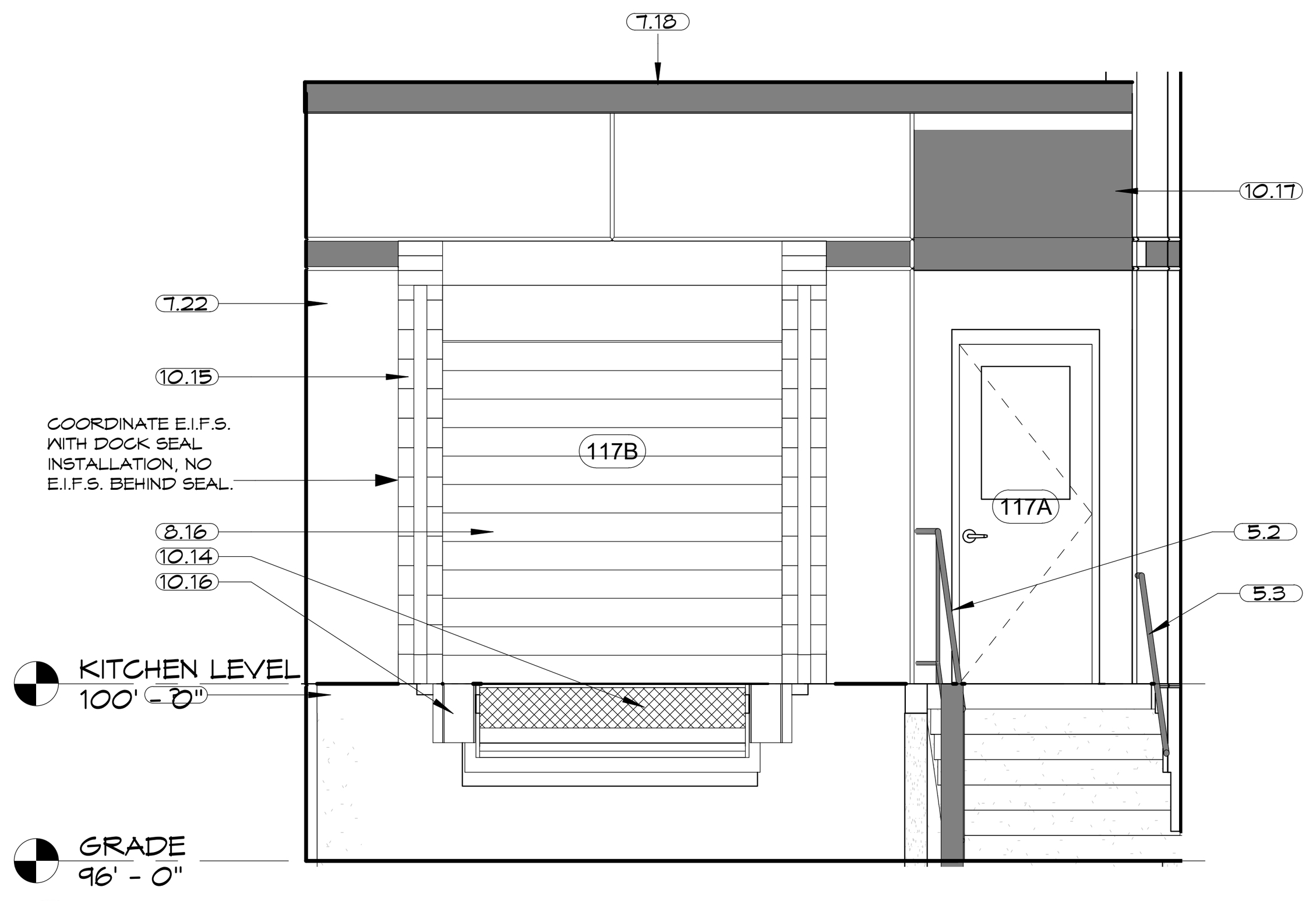
REFLECTED CEILING PLAN

Sheet:

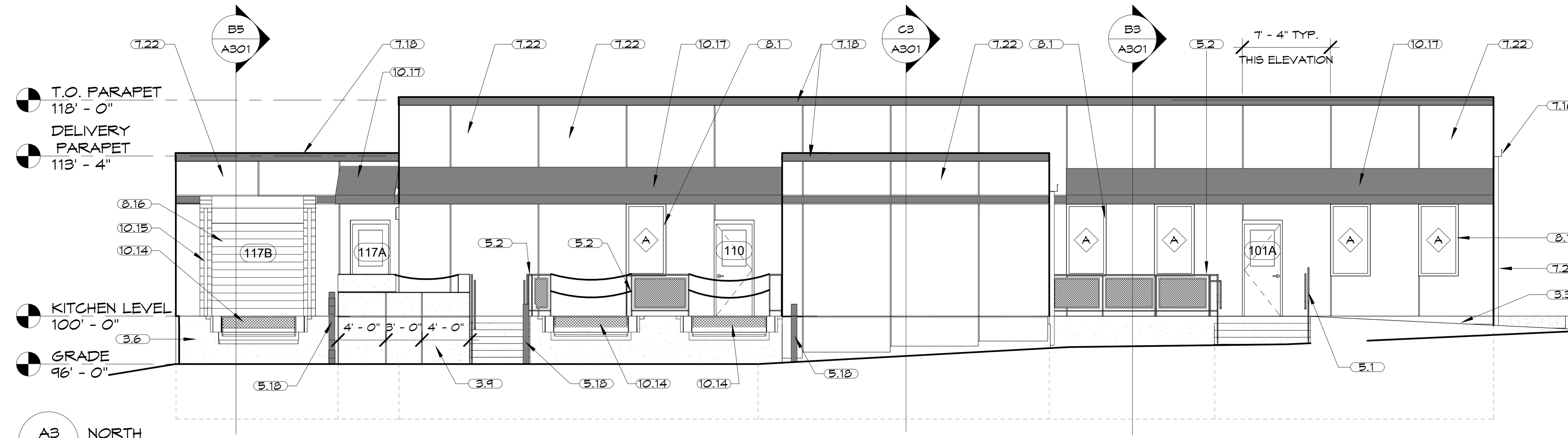
A103

Of:

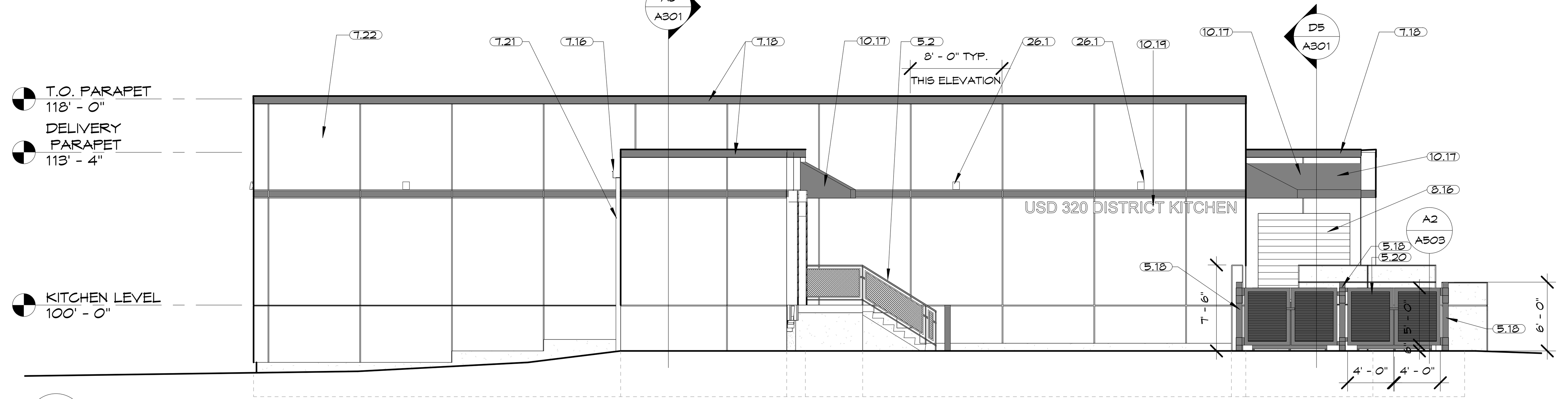
NOTES	
3.3	EXTERIOR CONCRETE PAVEMENT- SEE CIVIL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
3.9	CAST-IN-PLACE CONCRETE WALL
4.3	12" C.M.U.
4.9	MORTAR
5.1	GALVANIZED 2" O.D. GUARDRAIL WITH 1 1/2" O.D. HANDRAIL
5.2	GALVANIZED GUARDRAIL
5.3	GALVANIZED 1 1/2" O.D. HANDRAIL
5.18	GALVANIZED 6" STEEL BOLLARD
5.20	GALVANIZED STEEL TRASH GATE- 2" X 4" FRAME W/LOUVERS
7.6	4" RIGID ROOF INSULATION
7.16	8" ALUMINUM BOX GUTTER
7.18	MANUFACTURED METAL COPING
7.21	5" X 5" ALUMINUM DOWNSPOUT
7.22	E.I.F.S. VENEER
7.26	E.I.F.S. WATER AND VAPOR BARRIER
8.1	ALUMINUM STOREFRONT
8.16	OVERHEAD COILING DOOR- MOTORIZED
10.14	DOCK LEVELER
10.15	DOCK SEALER
10.16	DOCK BUMPER
10.17	METAL AWNING
10.19	EXTERIOR SIGNAGE
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.



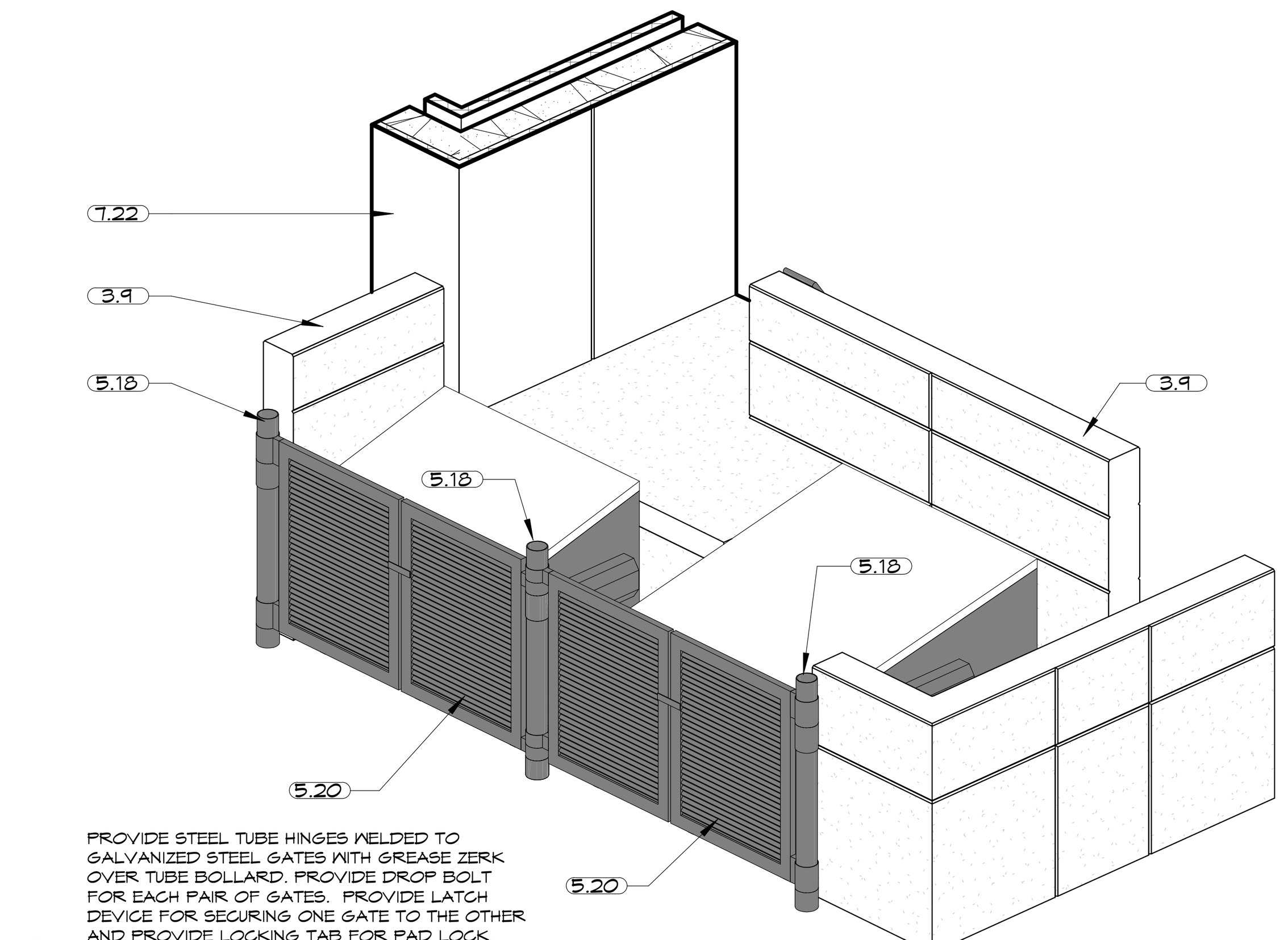
A5 A201 DELIVERY DOCK ELEVATION
1/4" = 1'-0"



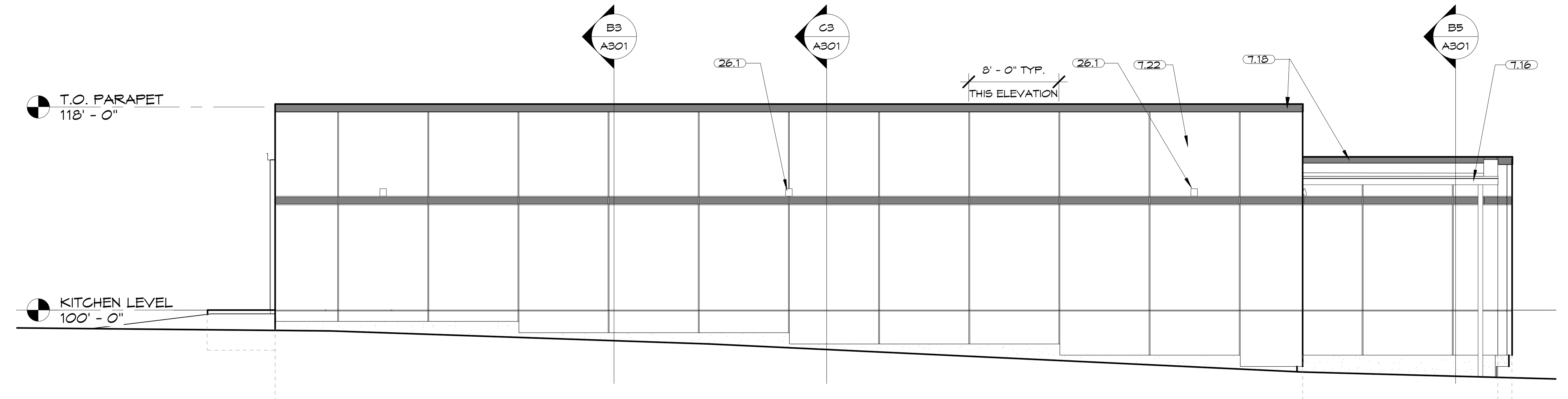
A3 A201 NORTH
1/8" = 1'-0"



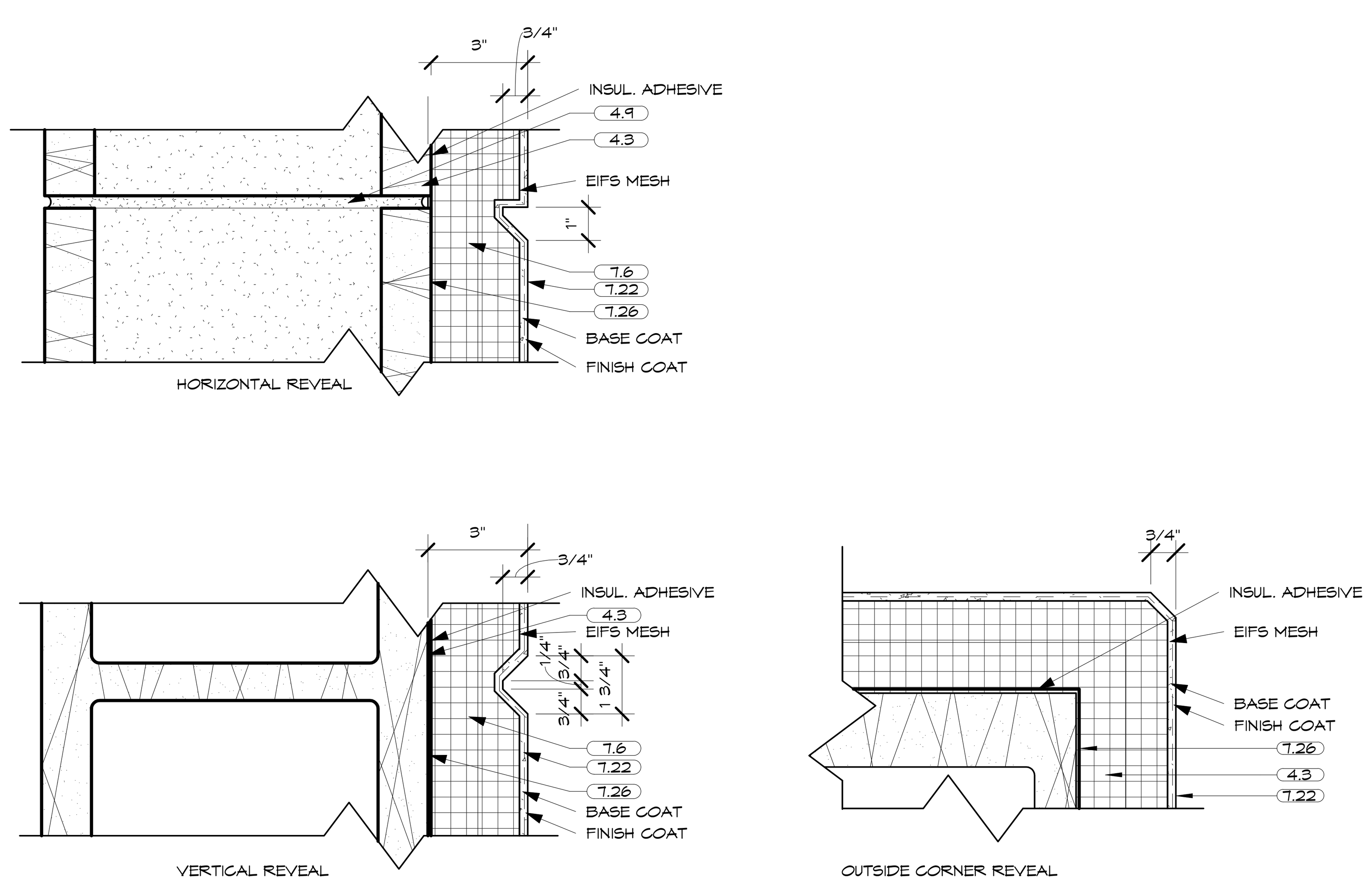
B3 A201 EAST
1/8" = 1'-0"



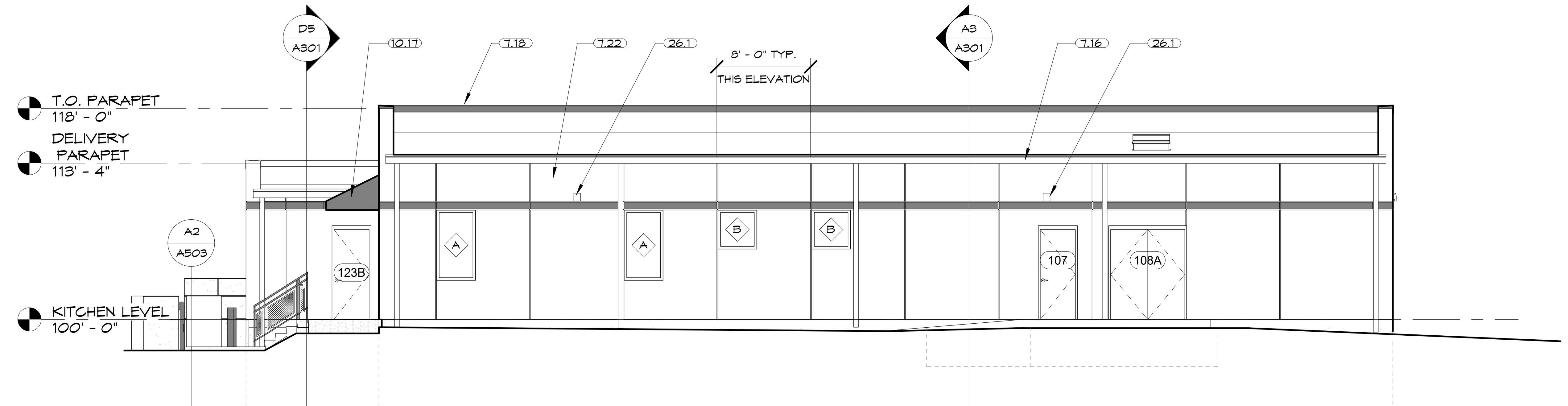
B5 A201 TRASH ENCLOSURE



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



D5 A201 EIFS REVEAL DETAILS
3" = 1'-0"

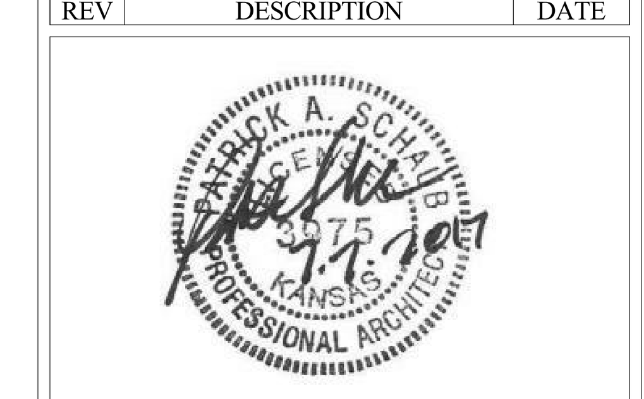


D3 A201 WEST
1/8" = 1'-0"

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 WAMEGO-DISTRICT KITCHEN

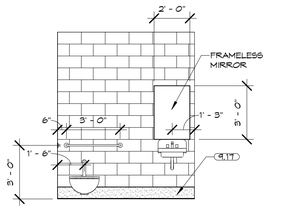
Project Address:
4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:
EXTERIOR ELEVATIONS

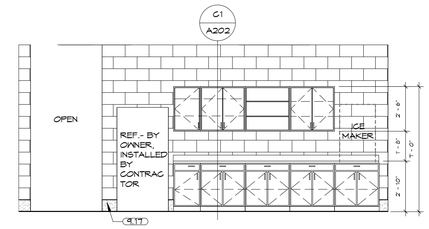
Sheet:
A201

Of:

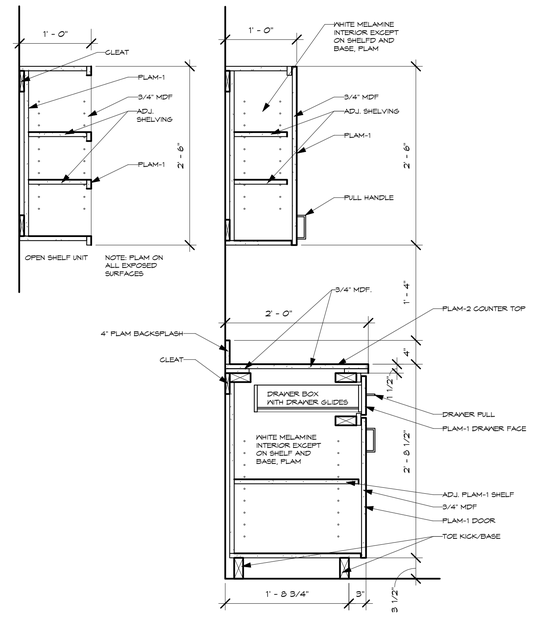
NOTES	
9.17	8" PMC BASE



A2 / A202 RESTROOM ELEVATION
1/4" = 1'-0"



A1 / A202 BREAK/CONF SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



C1 / A202 MILLWORK SECTION
1" = 1'-0"

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

REV	DESCRIPTION	DATE

PATRICK A. FISCHER
17-375
7-7-2017
KANSAS
PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 WAMEGO- DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:

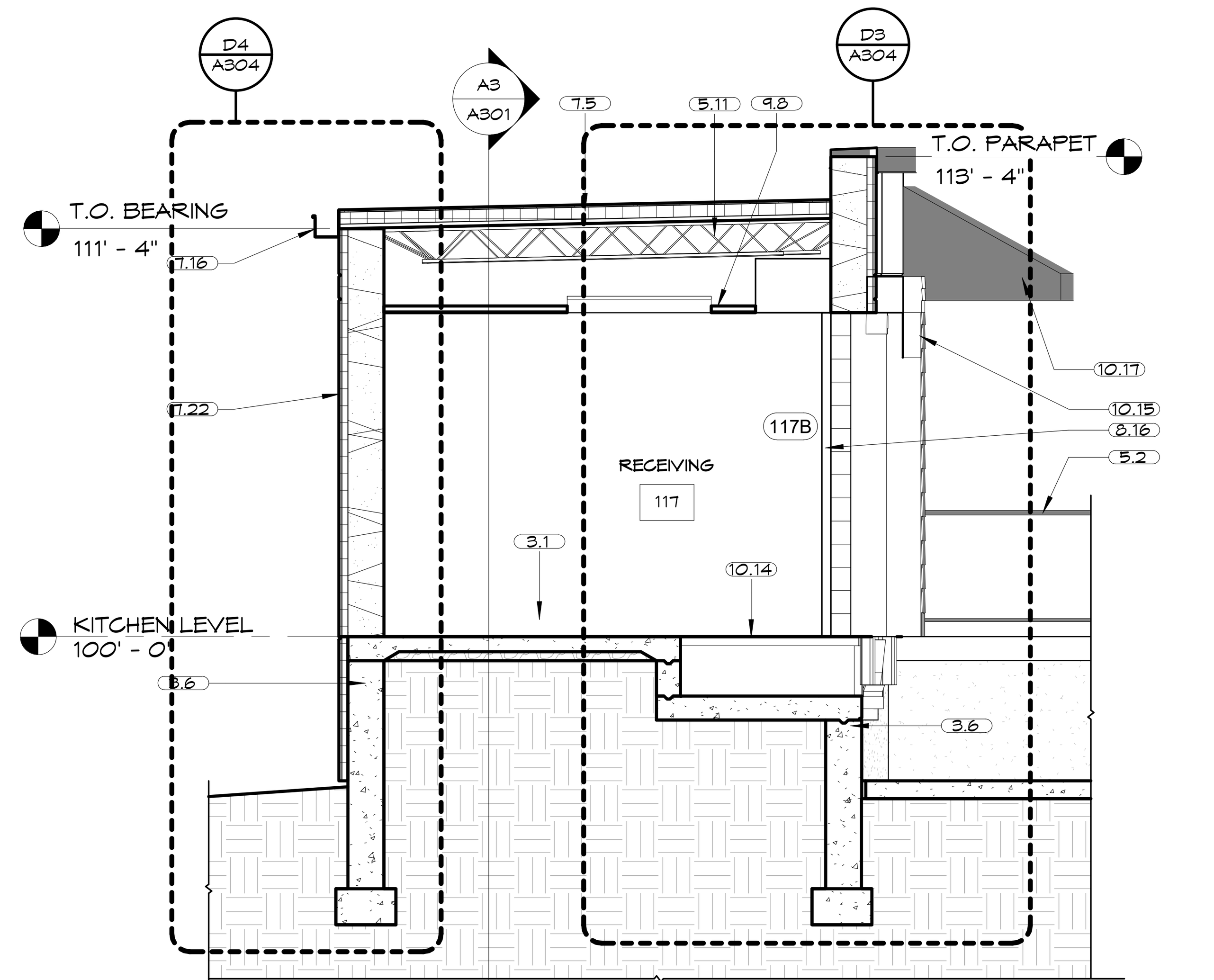
INTERIOR ELEVATIONS

Sheet: **A202**

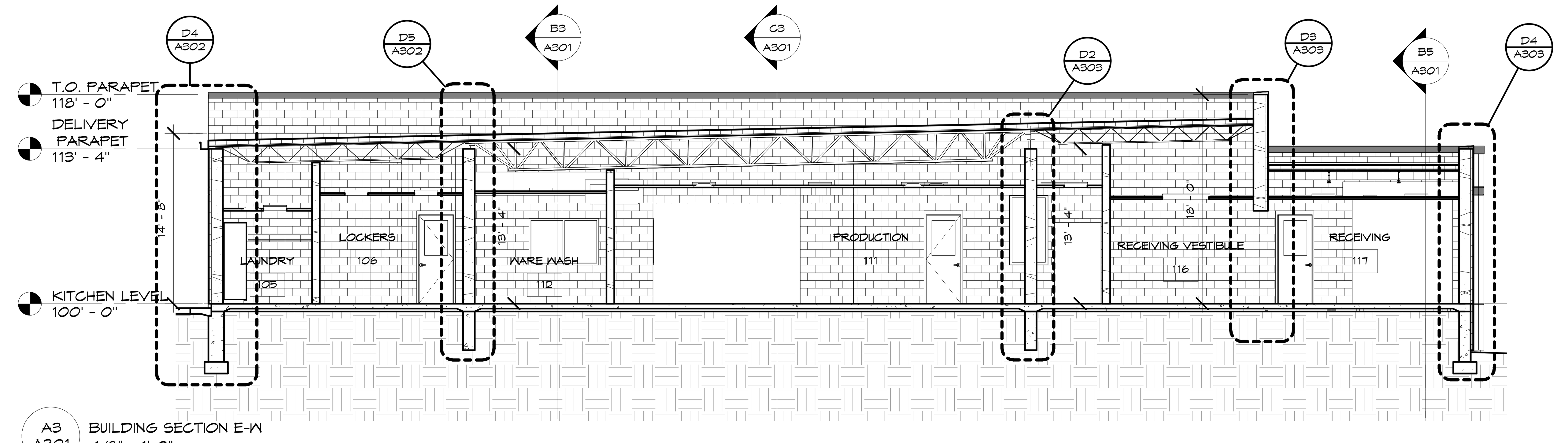
Of:

5 4 3 2 1

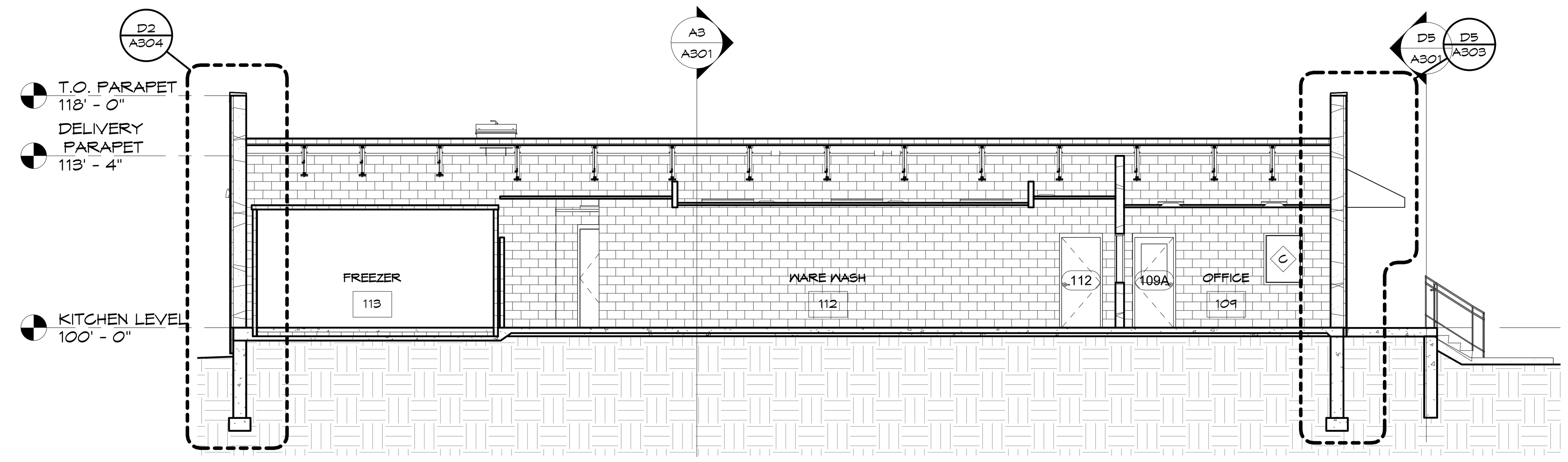
NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
5.2	GALVANIZED GUARDRAIL
5.11	STEEL BAR JOISTS
7.5	APP MOD. BIT. ROOFING MEMBRANE
7.16	8" ALUMINUM BOX GUTTER
7.18	MANUFACTURED METAL COPING
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
8.16	OVERHEAD COILING DOOR- MOTORIZED
9.8	TYPE 2 ACOUSTICAL CEILING TILE- KITCHEN
10.14	DOCK LEVELER
10.15	DOCK SEALER
10.17	METAL AWNING
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.



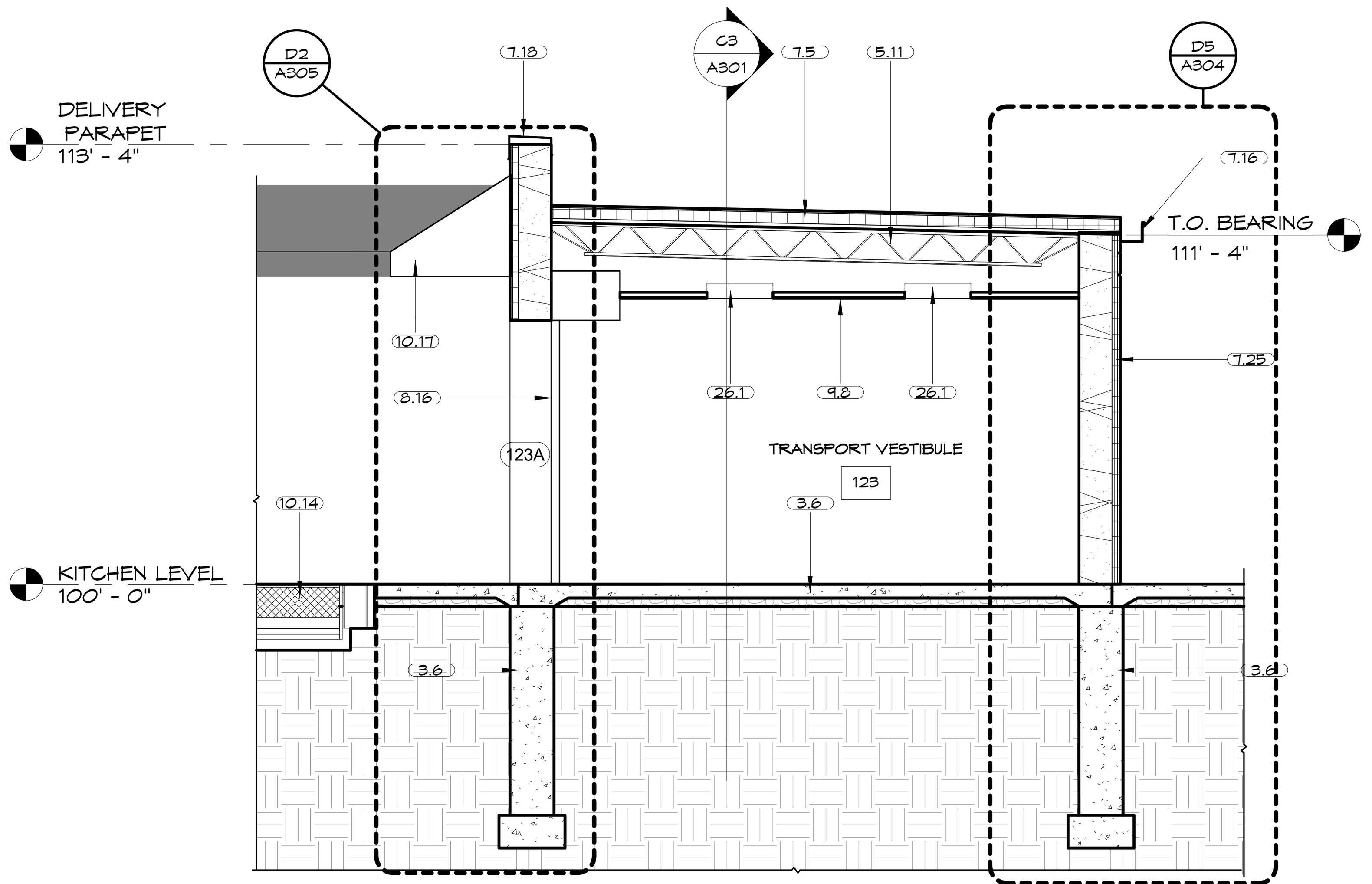
B5 A301 DELIVERY DOCK SECTION
1/4" = 1'-0"



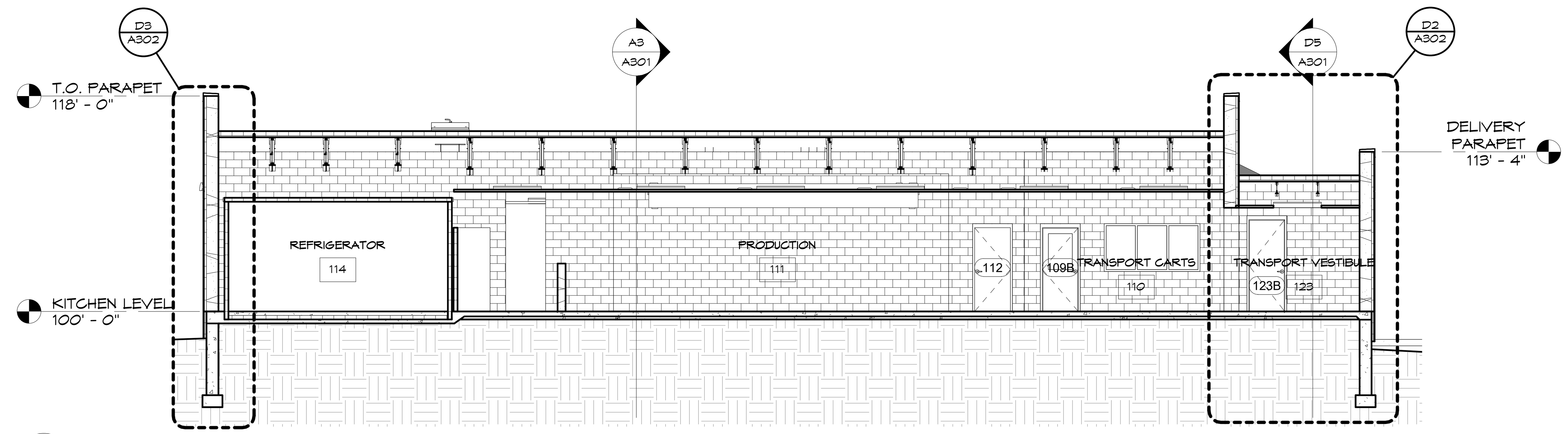
A3 A301 BUILDING SECTION E-W
1/8" = 1'-0"



B3 A301 BUILDING SECTION N-S
1/8" = 1'-0"



D5 A301 TRANSPORT DOCK SECTION
1/4" = 1'-0"



C3 A301 BUILDING SECTION AT TRANSPORT
1/8" = 1'-0"

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

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

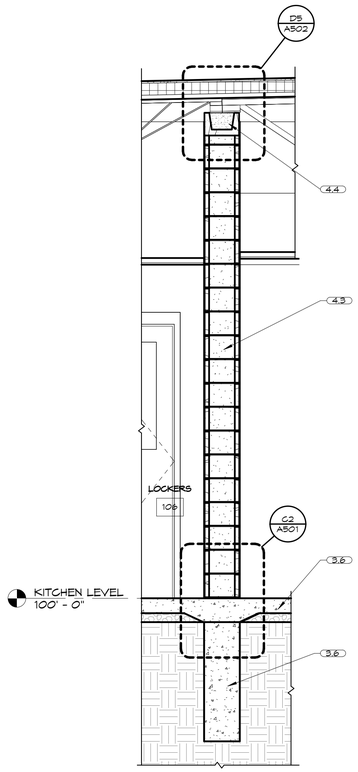
Project Address:
4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:
BUILDING SECTIONS

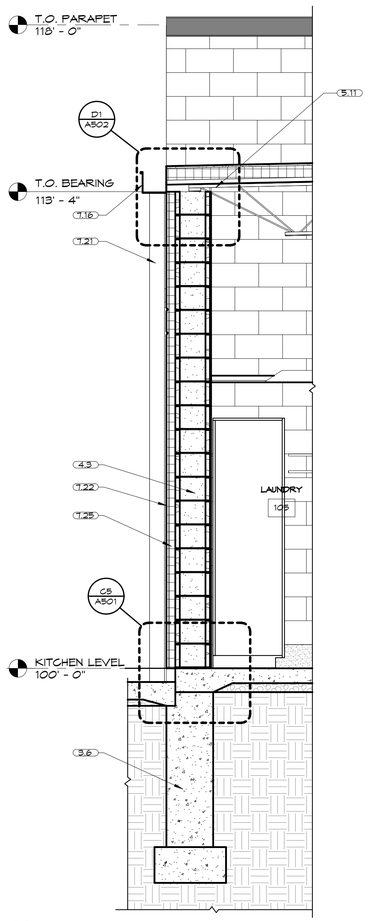
Sheet:
A301

Of:

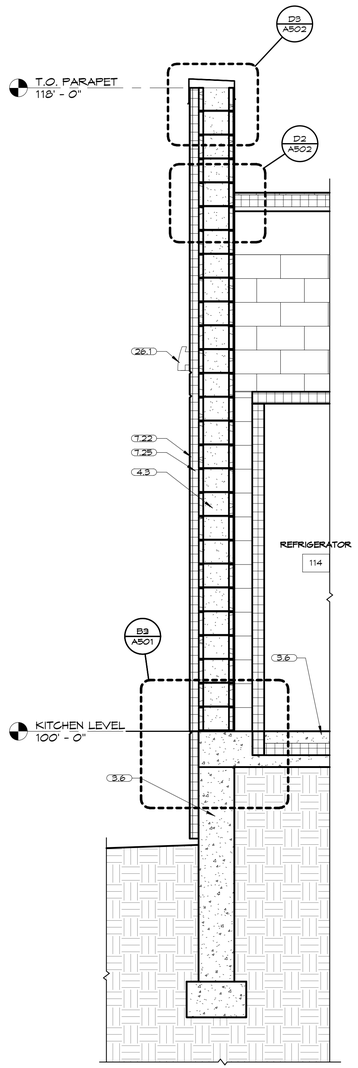
NOTES	
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
4.3	12" C.M.U.
4.4	12" C.M.U. BOND BEAM
5.11	STEEL BAR JOISTS
7.5	APP MOD. BIT. ROOFING MEMBRANE
7.6	4" RIGID ROOF INSULATION
7.16	8" ALUMINUM BOX GUTTER
7.21	5" X 5" ALUMINUM DOWNSPOUT
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.



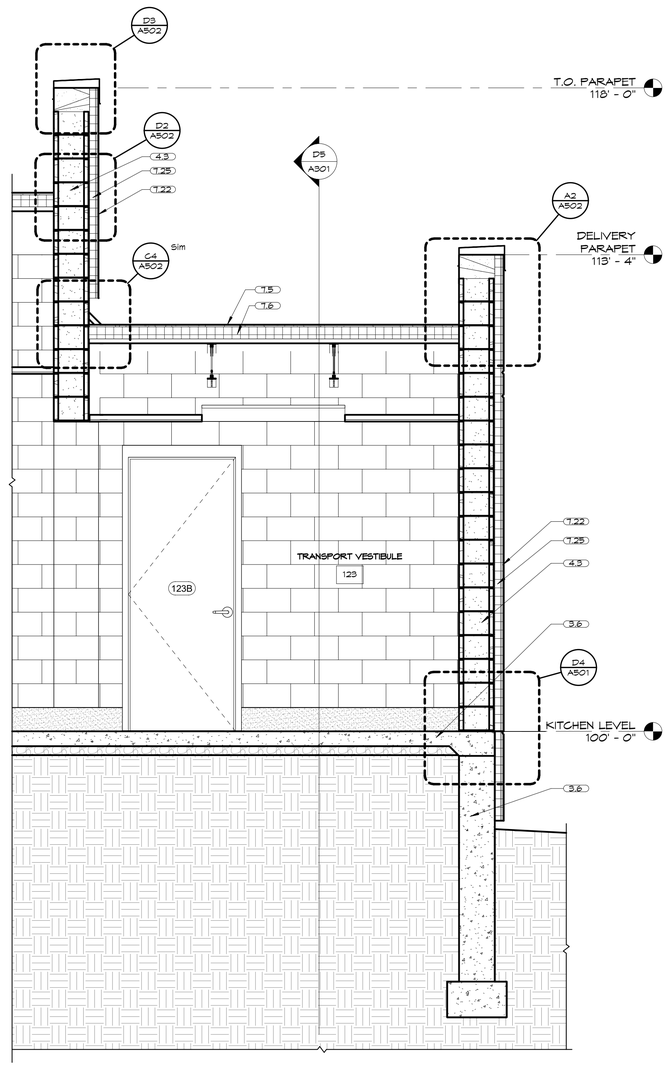
D5 / A302 WALL SECTION @ INTERIOR BEARING WALL
1/2" = 1'-0"



D4 / A302 WALL SECTION @ WEST WALL
1/2" = 1'-0"



D3 / A302 WALL SECTION @ WALK IN REFRIGERATOR
1/2" = 1'-0"



D2 / A302 WALL SECTION @ TRANSPORT VESTIBULE
1/2" = 1'-0"

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

REV	DESCRIPTION	DATE

PATRICK A. SCHEIB
7-7-2017
KANSAS
PROFESSIONAL ARCHITECT

Project Number: **16036**

Date: **7/7/17**

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD WAMEGO, KS

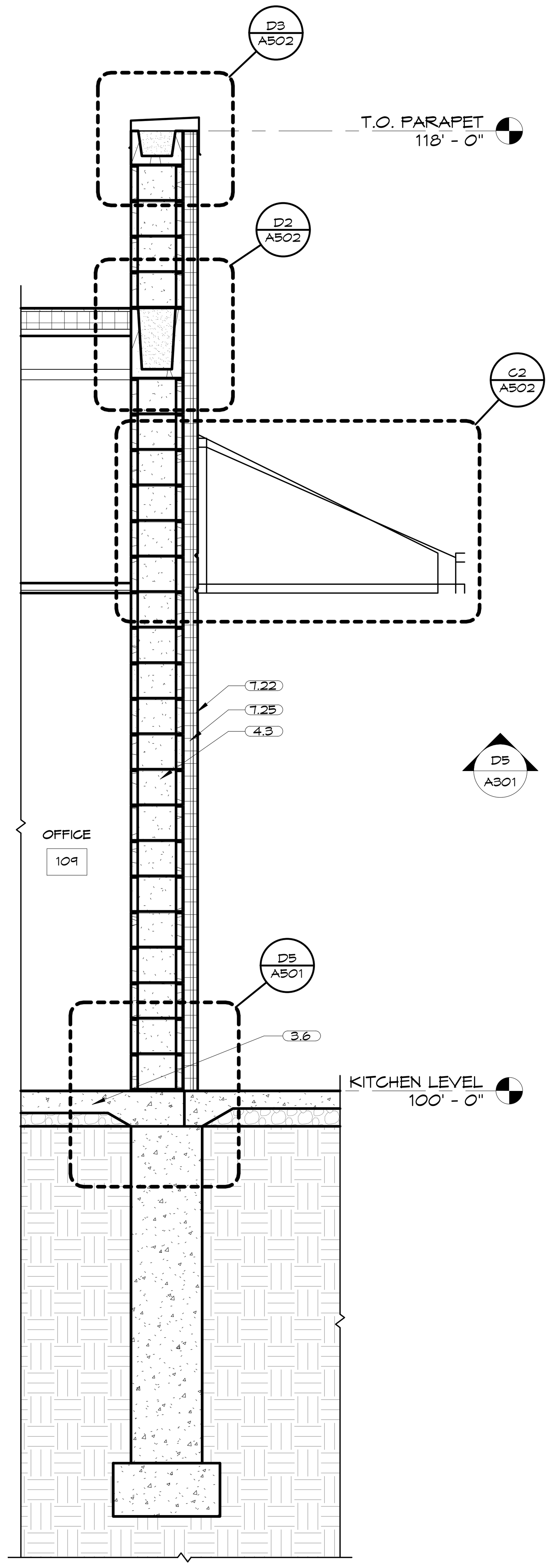
Sheet Title:

WALL SECTIONS

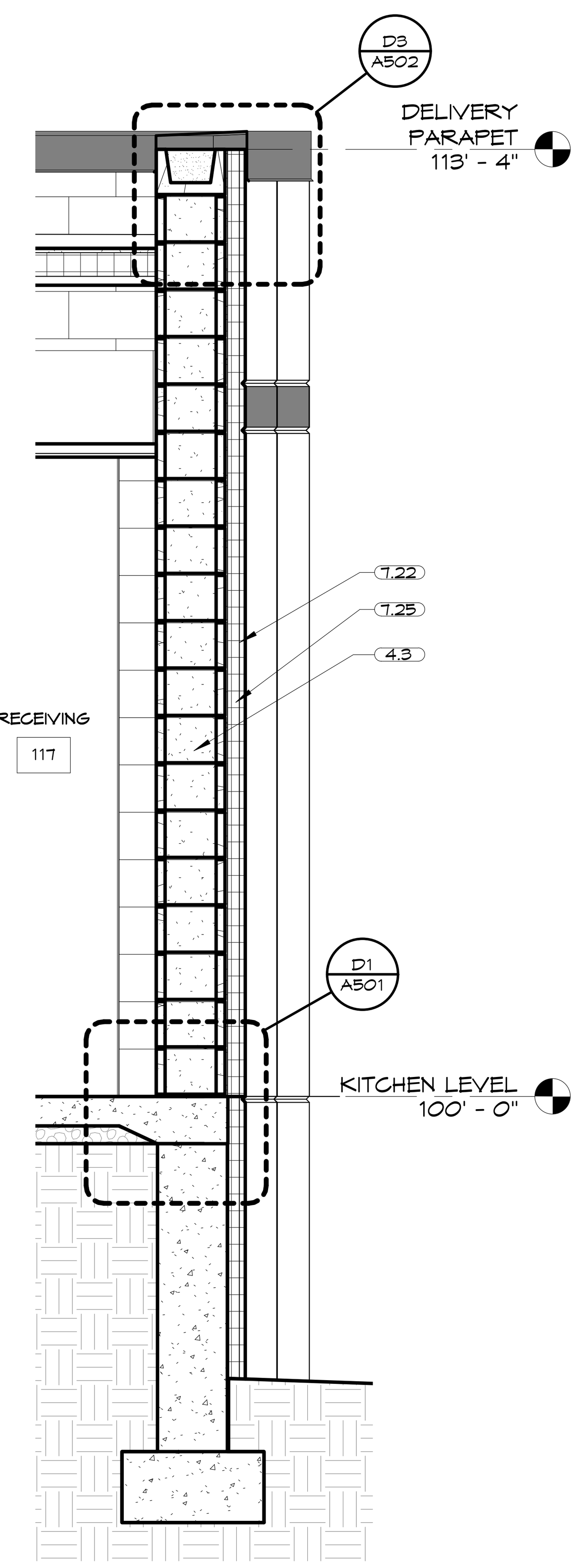
Sheet: **A302**

Of:

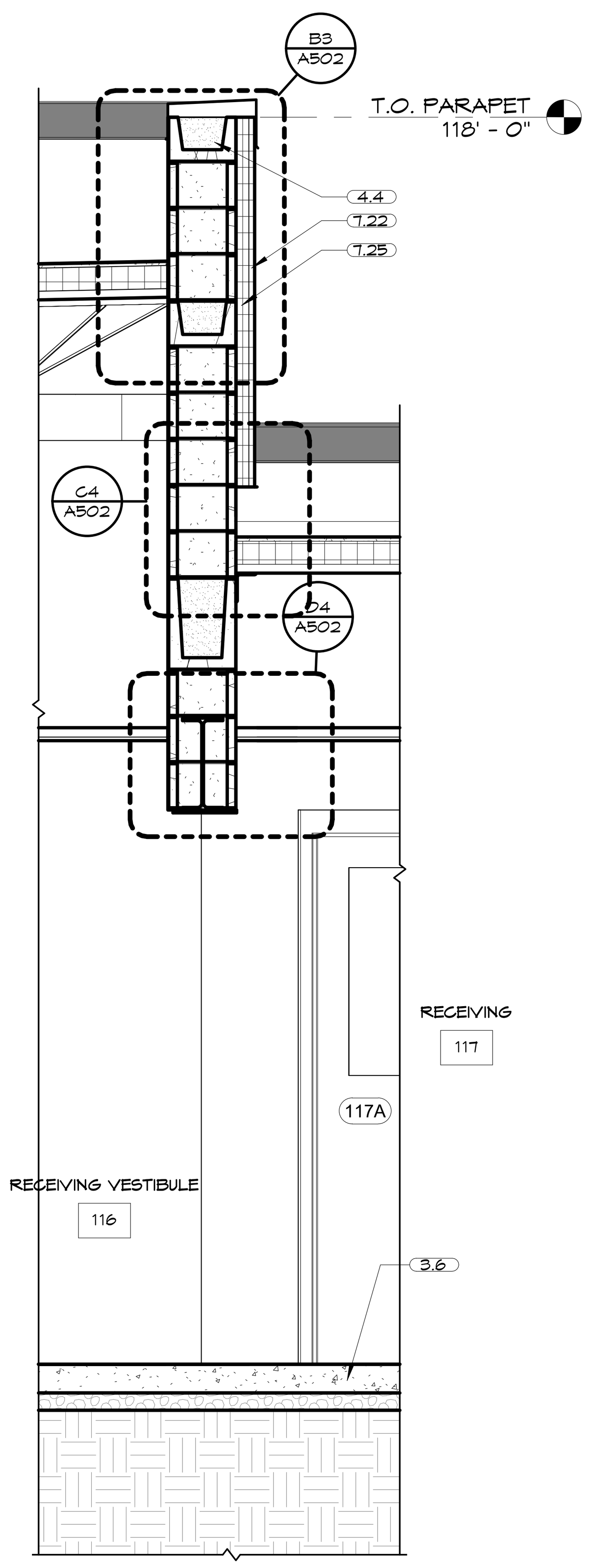
NOTES	
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
4.3	12" C.M.U.
4.4	12" C.M.U. BOND BEAM
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION



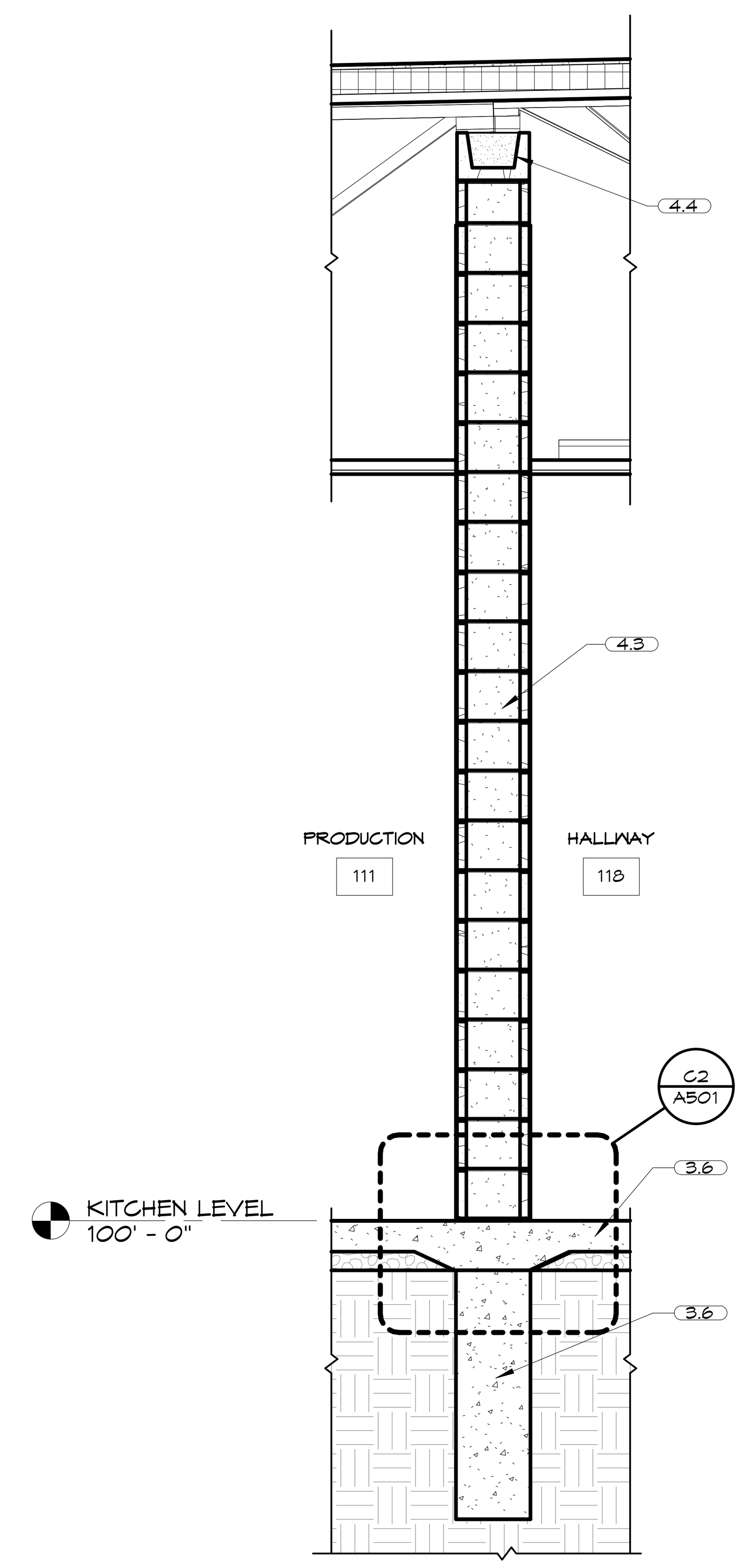
D5 A303 WALL SECTION @ NORTH WALL
1/2" = 1'-0"



D4 A303 WALL SECTION @ EAST WALL
1/2" = 1'-0"



D3 A303 WALL SECTION @ RECEIVING VESTIBULE OPENING
1/2" = 1'-0"



D2 A303 WALL SECTION @ INTERIOR WALL
1/2" = 1'-0"

BBN

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

REV	DESCRIPTION	DATE

PATRICK A. SCHMIDT · 3775 · KANSAS · PROFESSIONAL ARCHITECT · 7.7.17

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

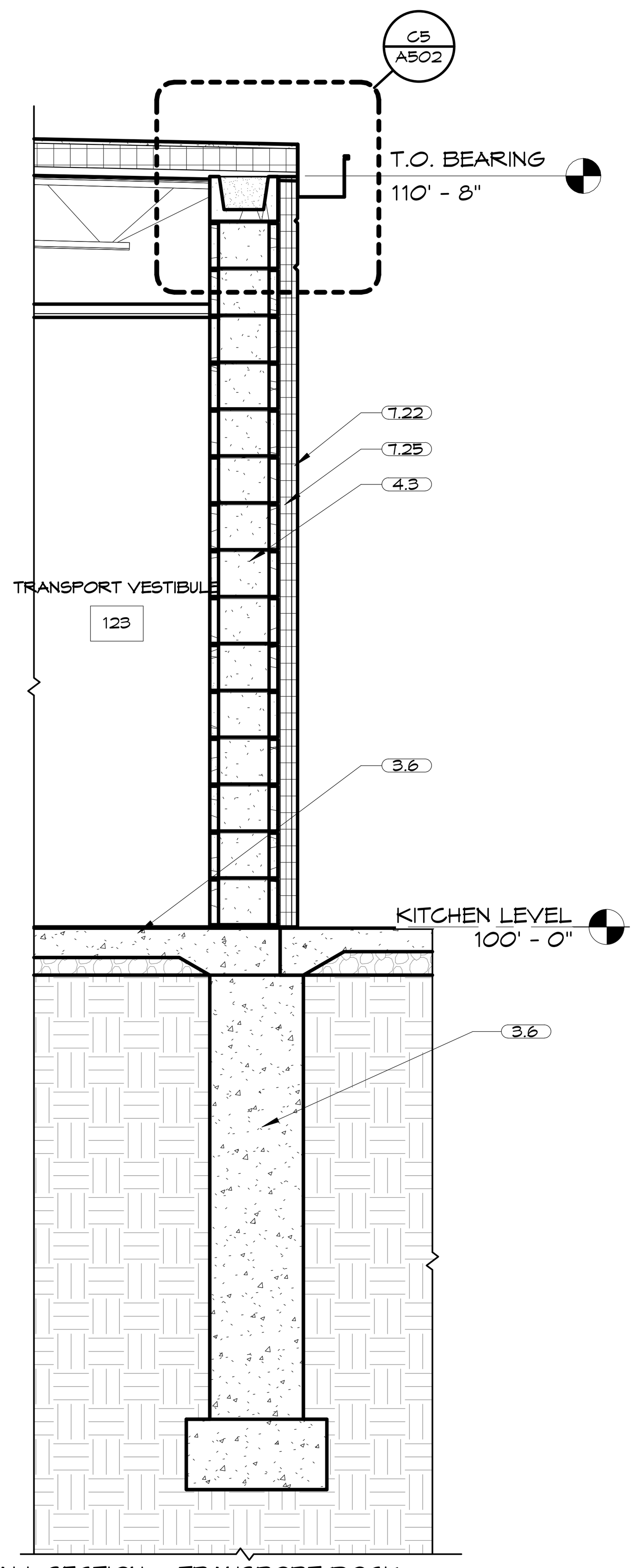
Project Address:
4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:
WALL SECTIONS

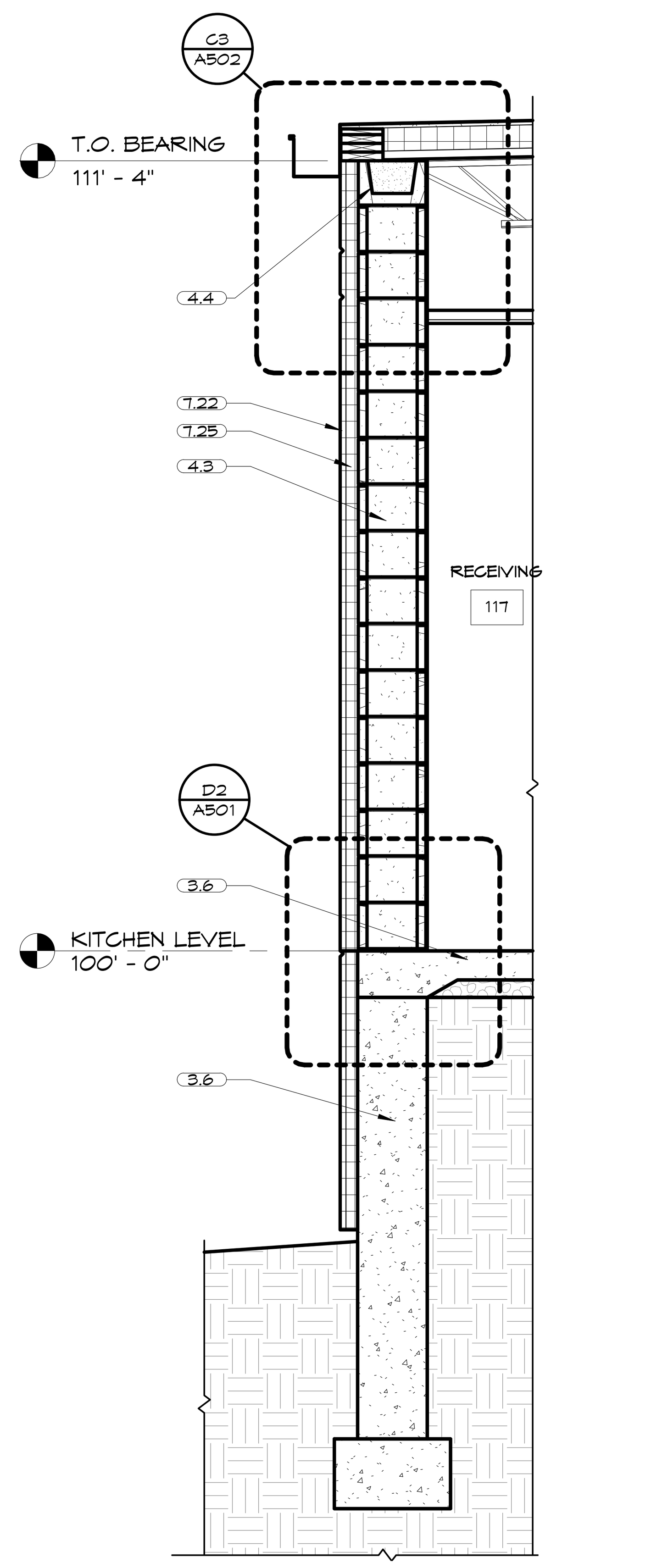
Sheet:
A303

Of:

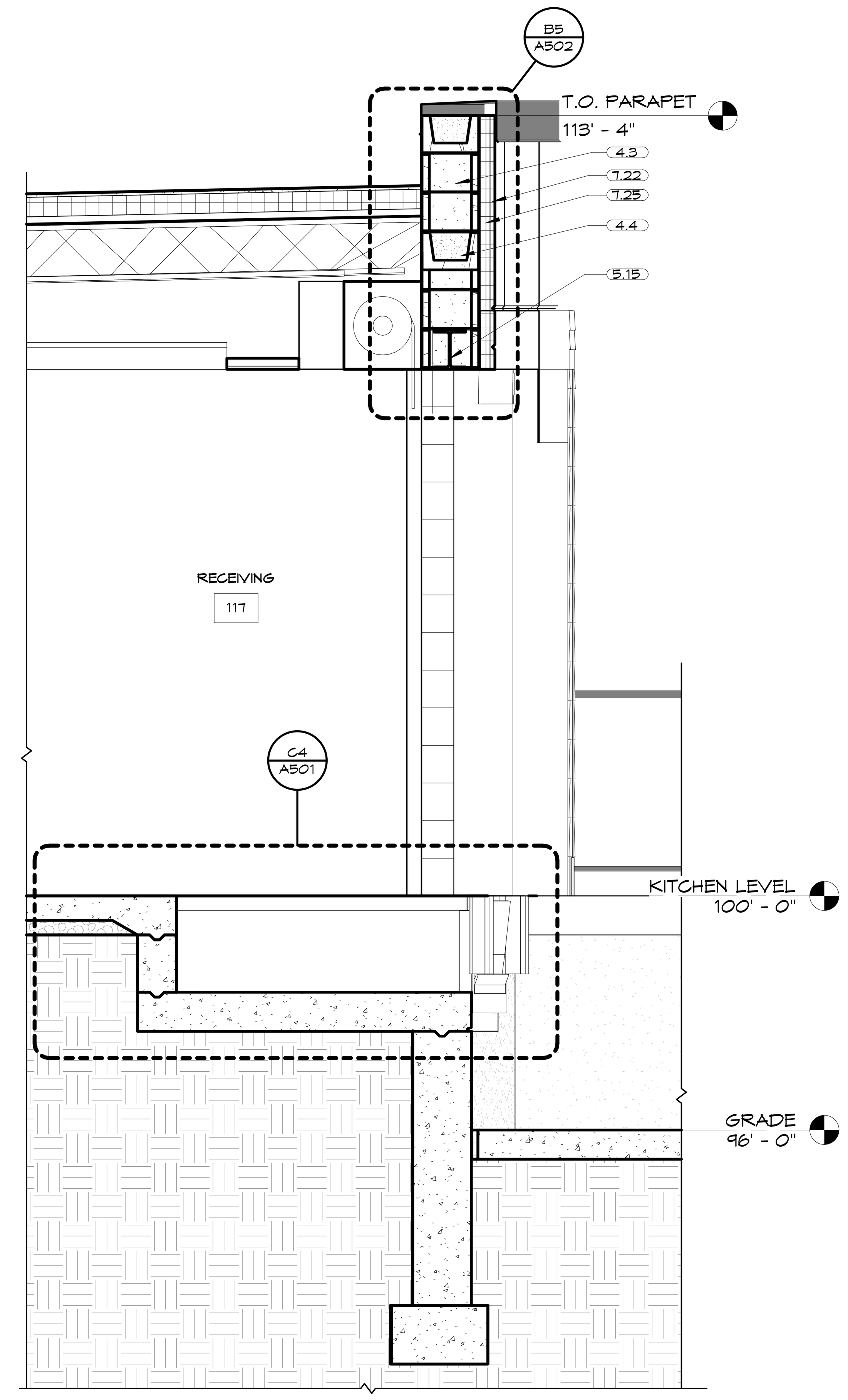
NOTES	
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
4.3	12" C.M.U.
4.4	12" C.M.U. BOND BEAM
5.15	STEEL LINTEL- SEE STRUCTURAL
7.18	MANUFACTURED METAL COPING
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
26.1	LIGHT FIXTURE-SEE ELEC. DRWG.



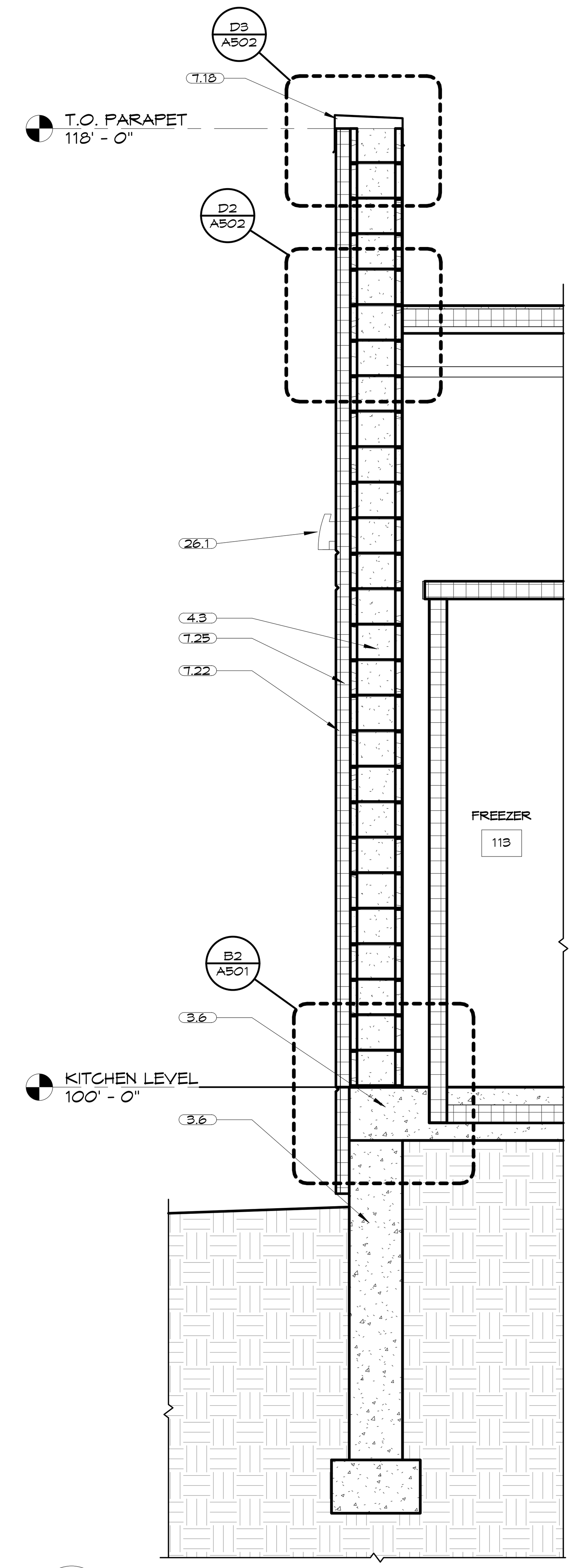
D5 A304 WALL SECTION @ TRANSPORT DOCK WALL
1/2" = 1'-0"



D4 A304 WALL SECTION @ DELIVERY DOCK WALL
1/2" = 1'-0"



D3 A304 WALL SECTION @ DELIVERY DOCK
1/2" = 1'-0"



D2 A304 WALL SECTION @ SOUTH WALL
1/2" = 1'-0"

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 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:

WALL SECTIONS

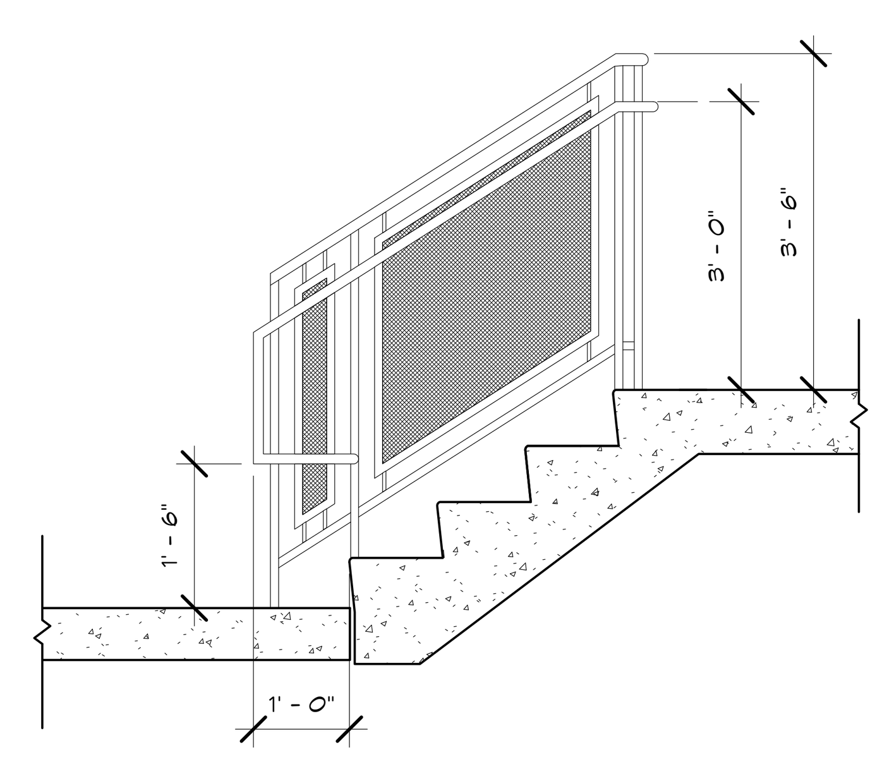
Sheet:

A304

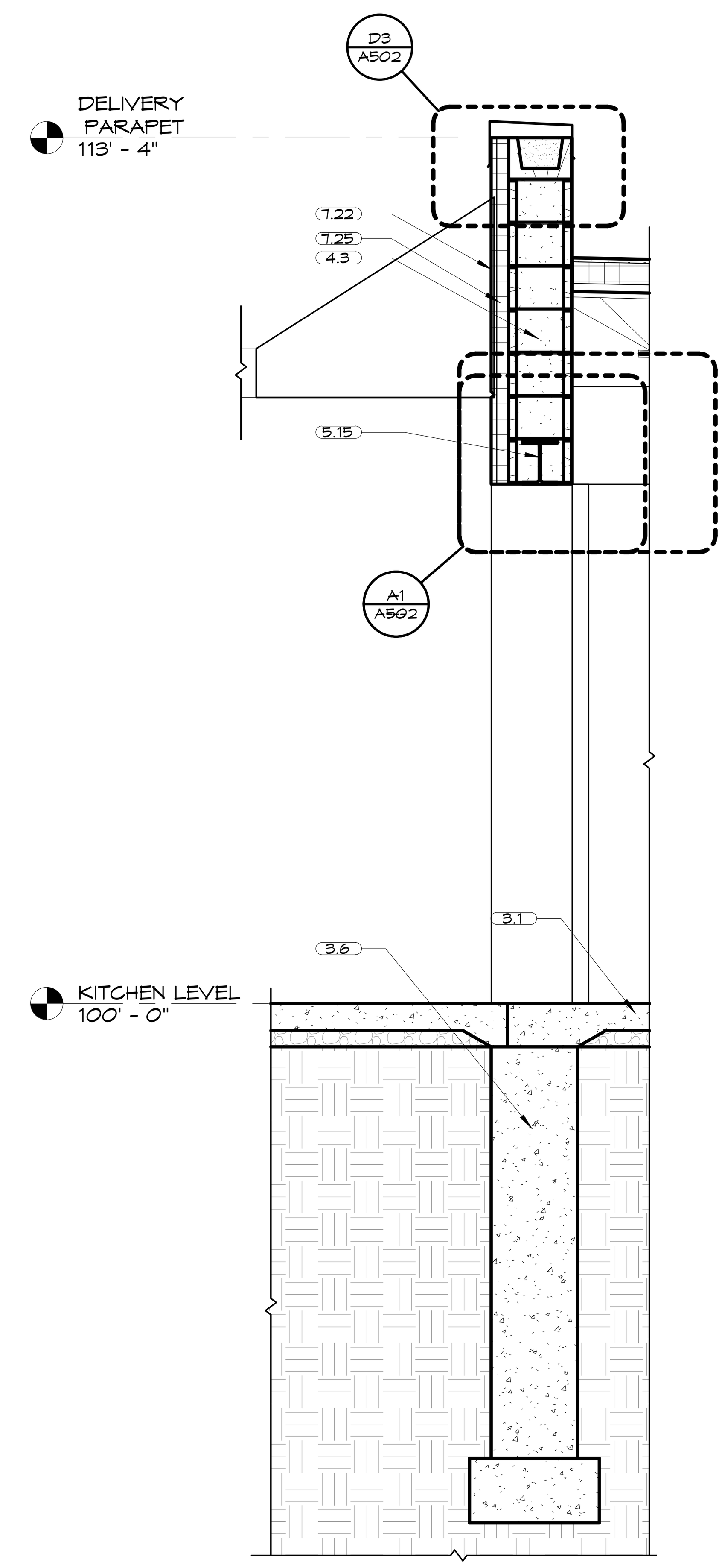
Of:

5 4 3 2 1

NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
4.3	12" C.M.U.
5.15	STEEL LINTEL- SEE STRUCTURAL
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION



D3 A305 STAIR SECTION
1/2" = 1'-0"



D2 A305 WALL SECTION @ TRANSPORT DOCK
1/2" = 1'-0"

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

REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **7/7/17**

Project Name:

**USD 320 WAMEGO-
DISTRICT KITCHEN**

Project Address:

**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:

**WALL
SECTIONS**

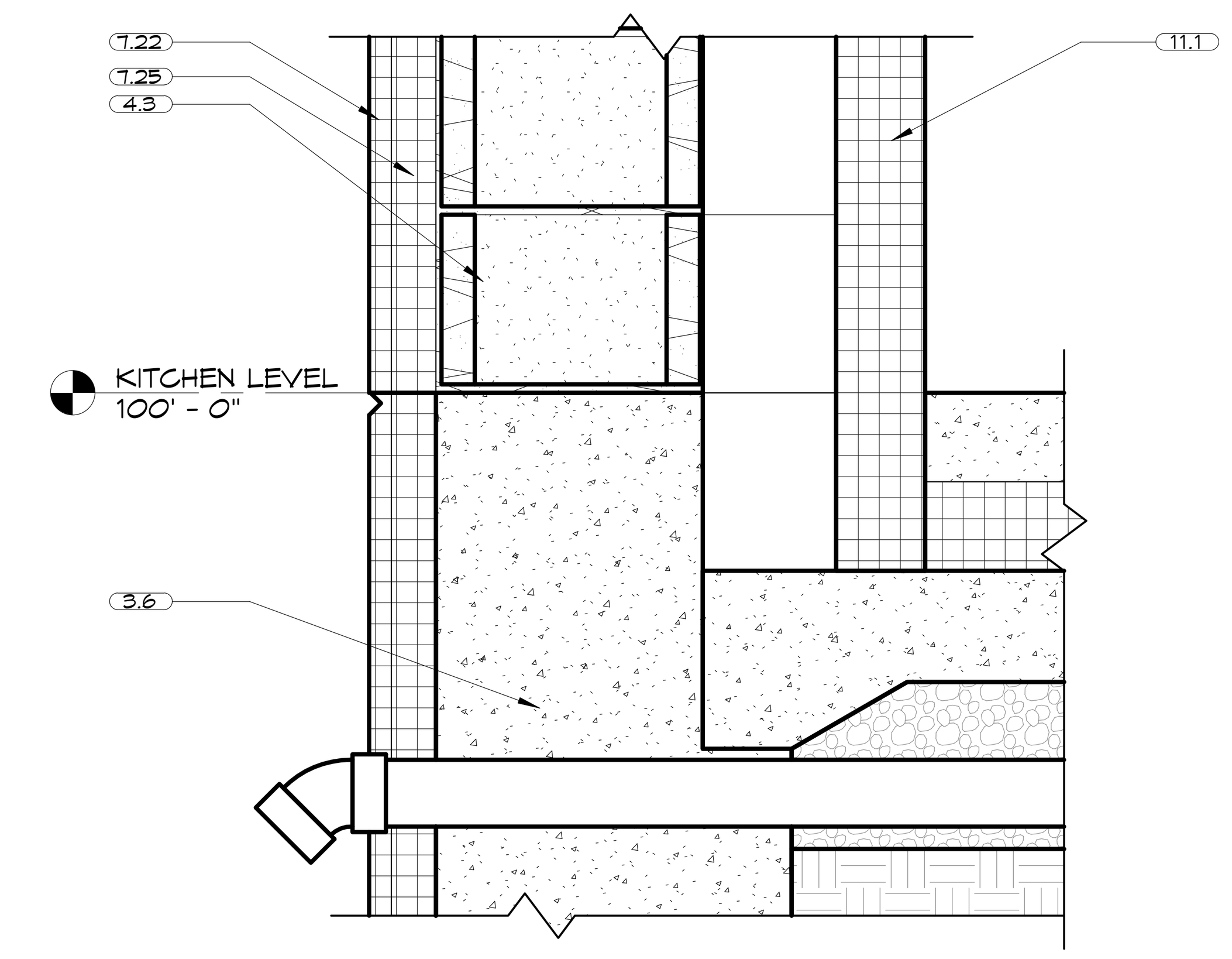
Sheet:

A305

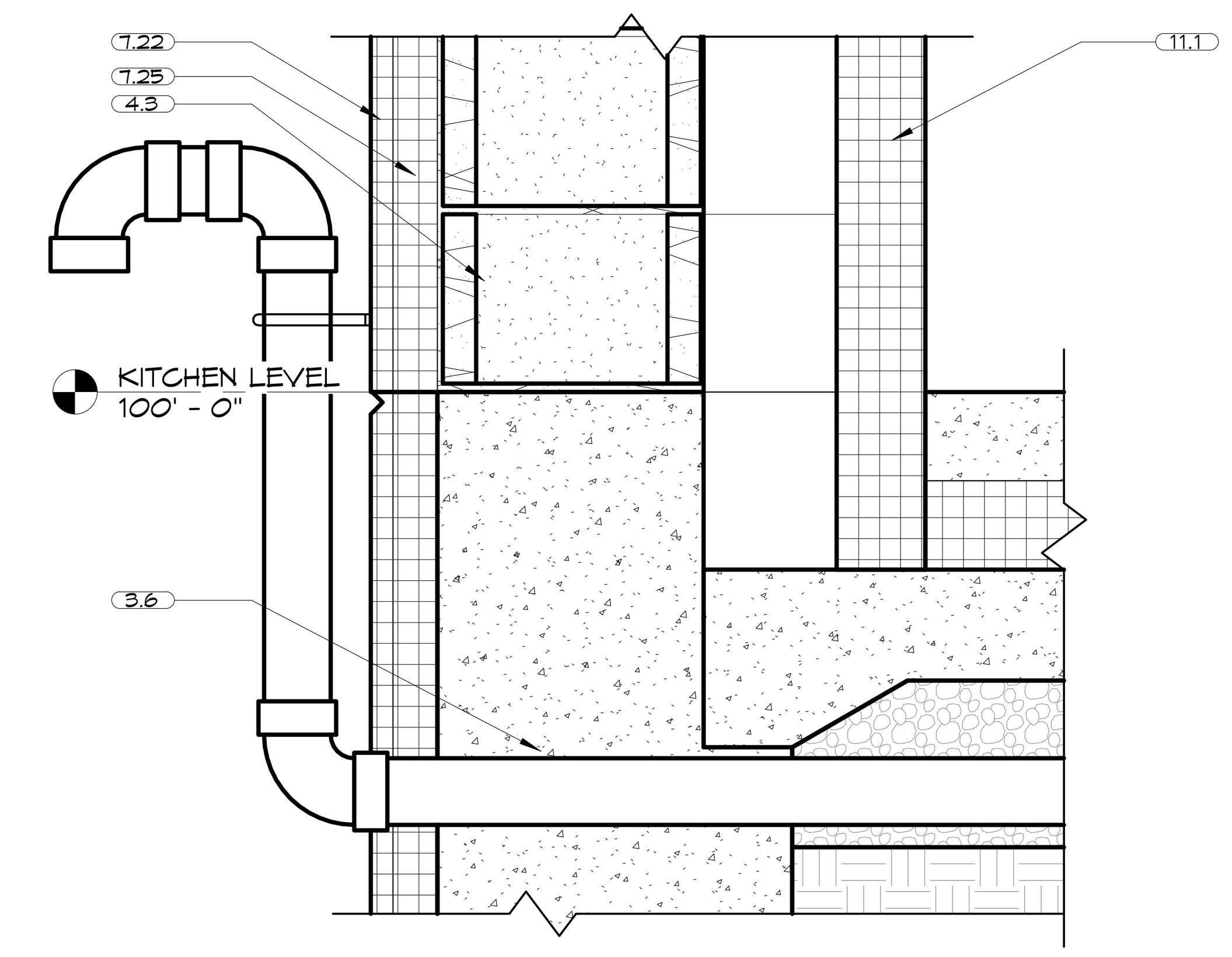
Of:

5 4 3 2 1

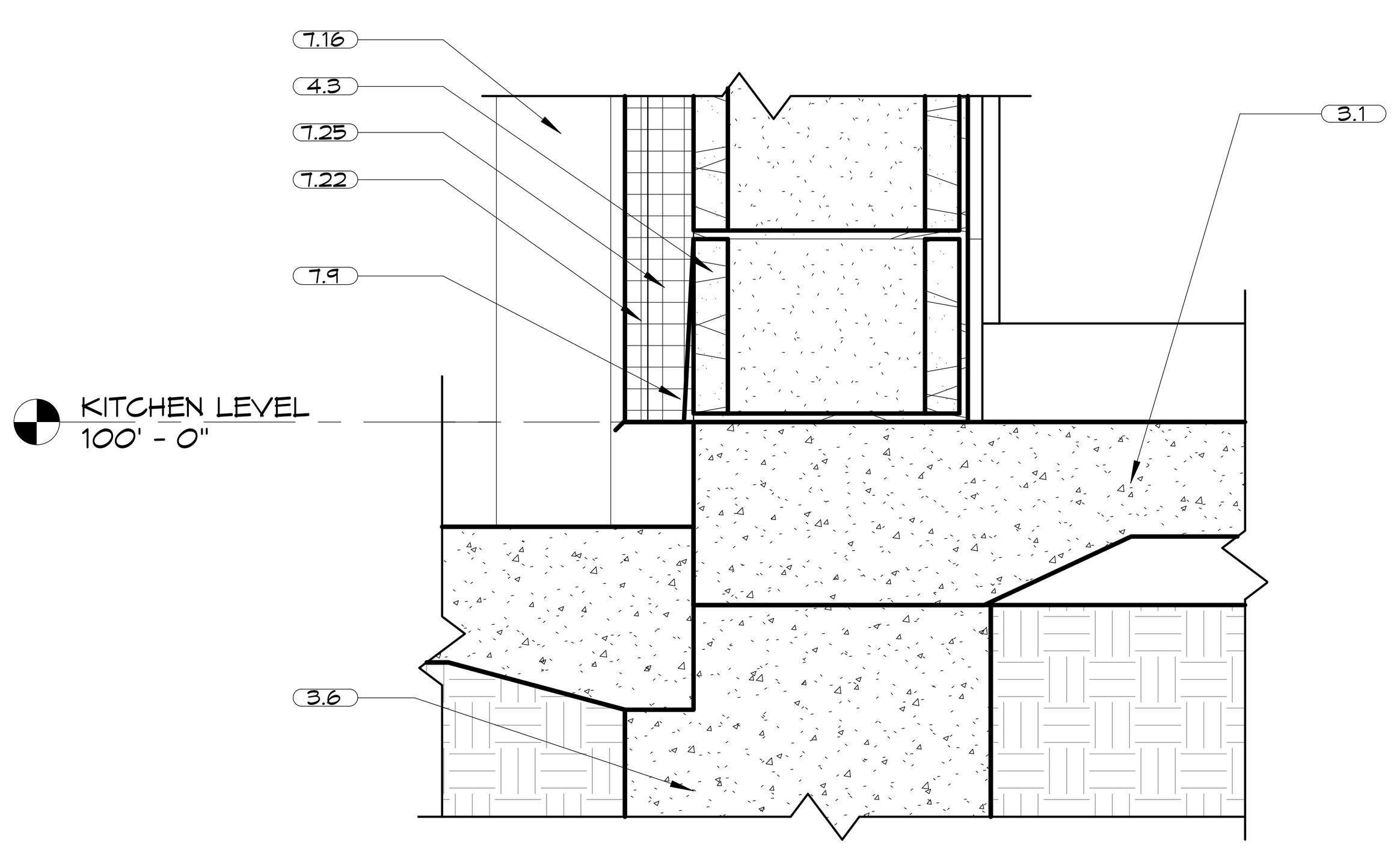
NOTES	
3.1	CONCRETE- SLAB ON GRADE- SEE STRUCTURAL DRWG.
3.6	CONCRETE FOUNDATION- SEE STRUCTURAL DRWG.
4.3	12" C.M.U.
7.9	SHEET METAL FLASHING
7.16	5" ALUMINUM BOX GUTTER
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
10.14	DOCK LEVELER
11.1	WALK-IN REFRIGERATOR- SEE FOOD SERVICE DRWG.



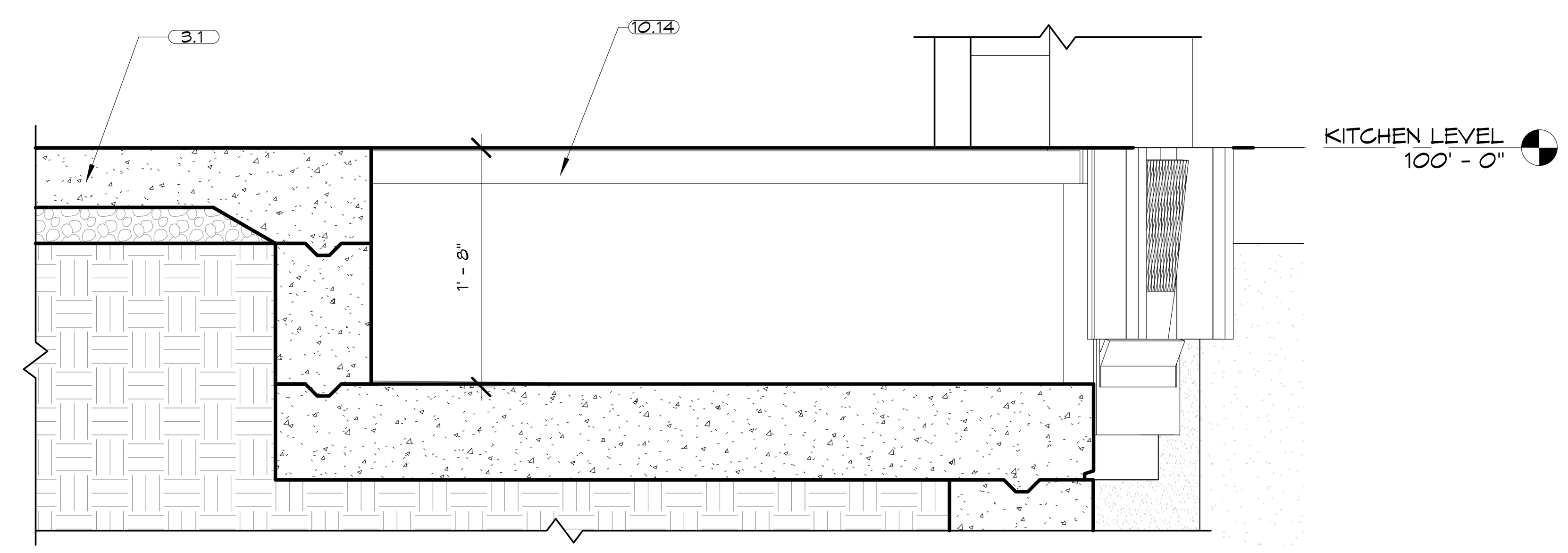
B3 A501 DETAIL @ FOUNDATION - FREEZERS EXIT END
1 1/2" = 1'-0"



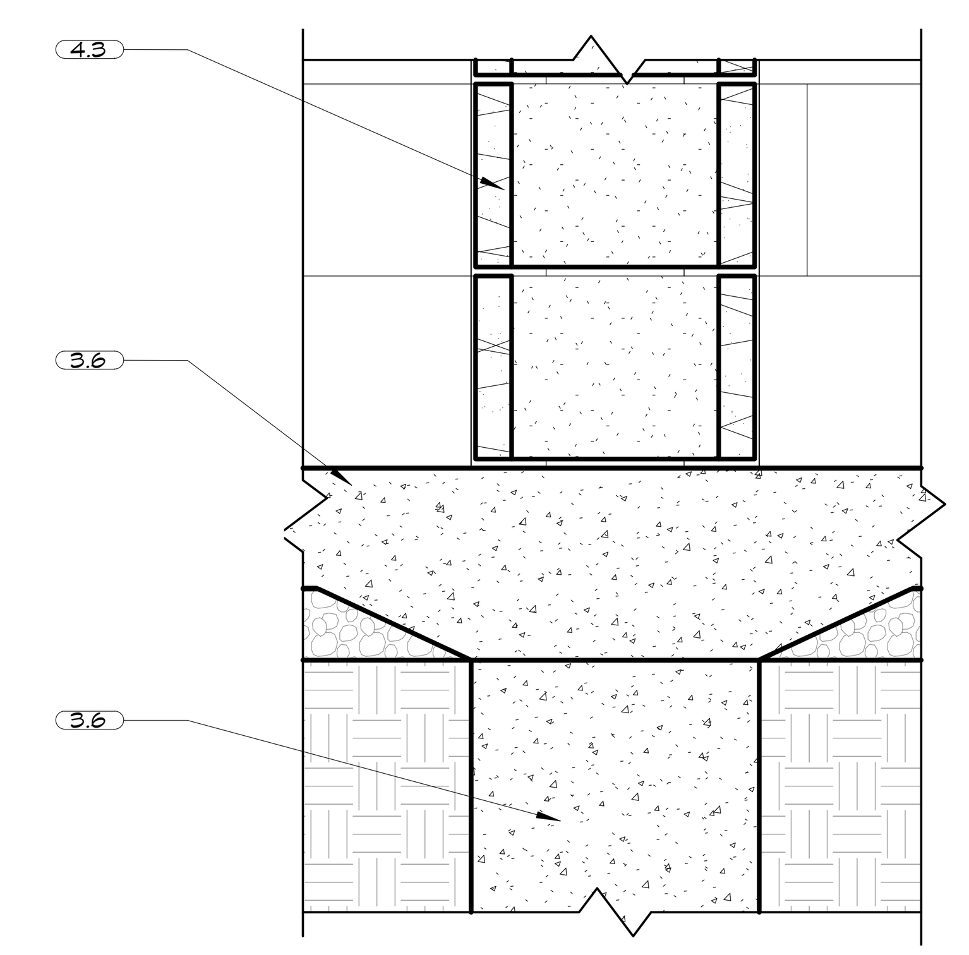
B2 A501 DETAIL @ FOUNDATION - FREEZERS
1 1/2" = 1'-0"



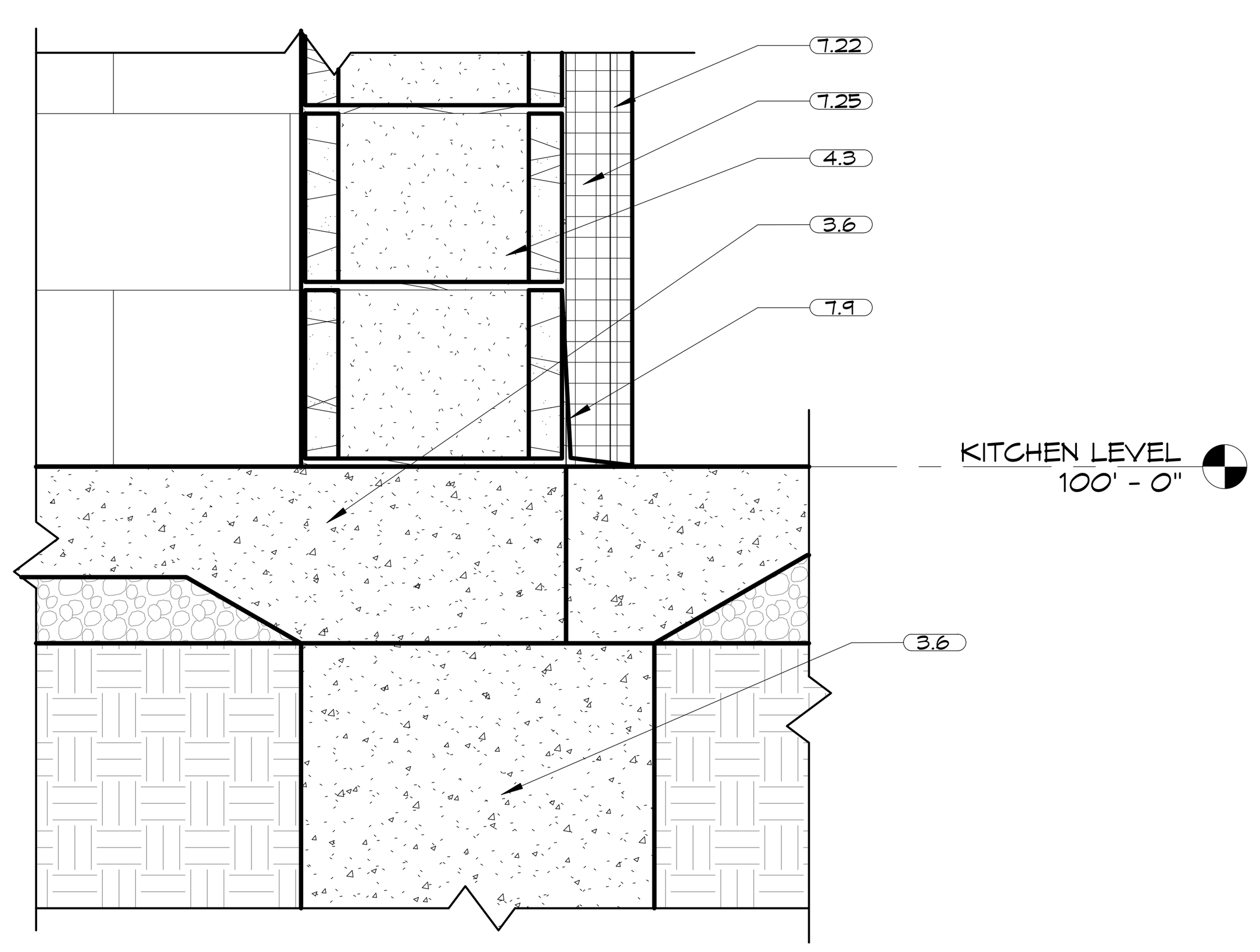
C5 A501 FOUNDATION DETAIL @ WEST RAMP
1 1/2" = 1'-0"



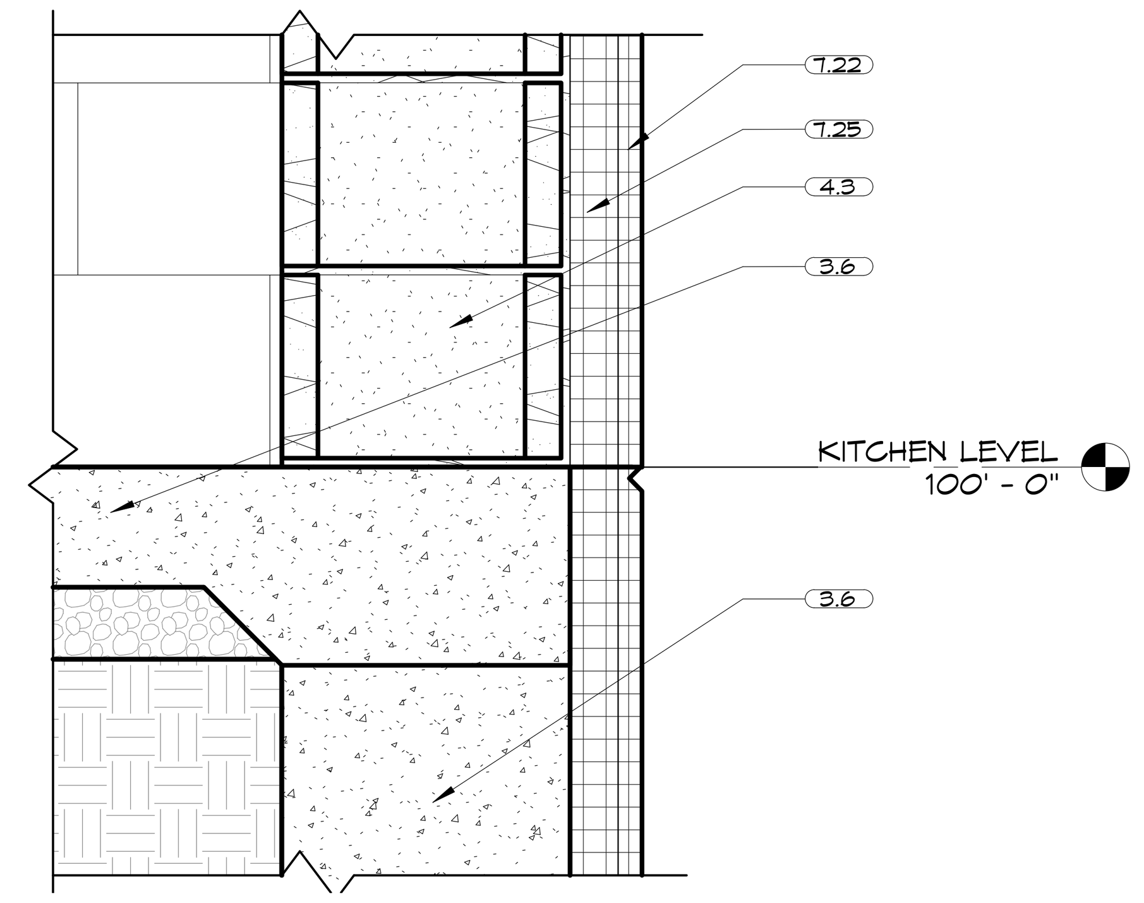
C4 A501 DETAIL @ DELIVERY DOCK
1" = 1'-0"



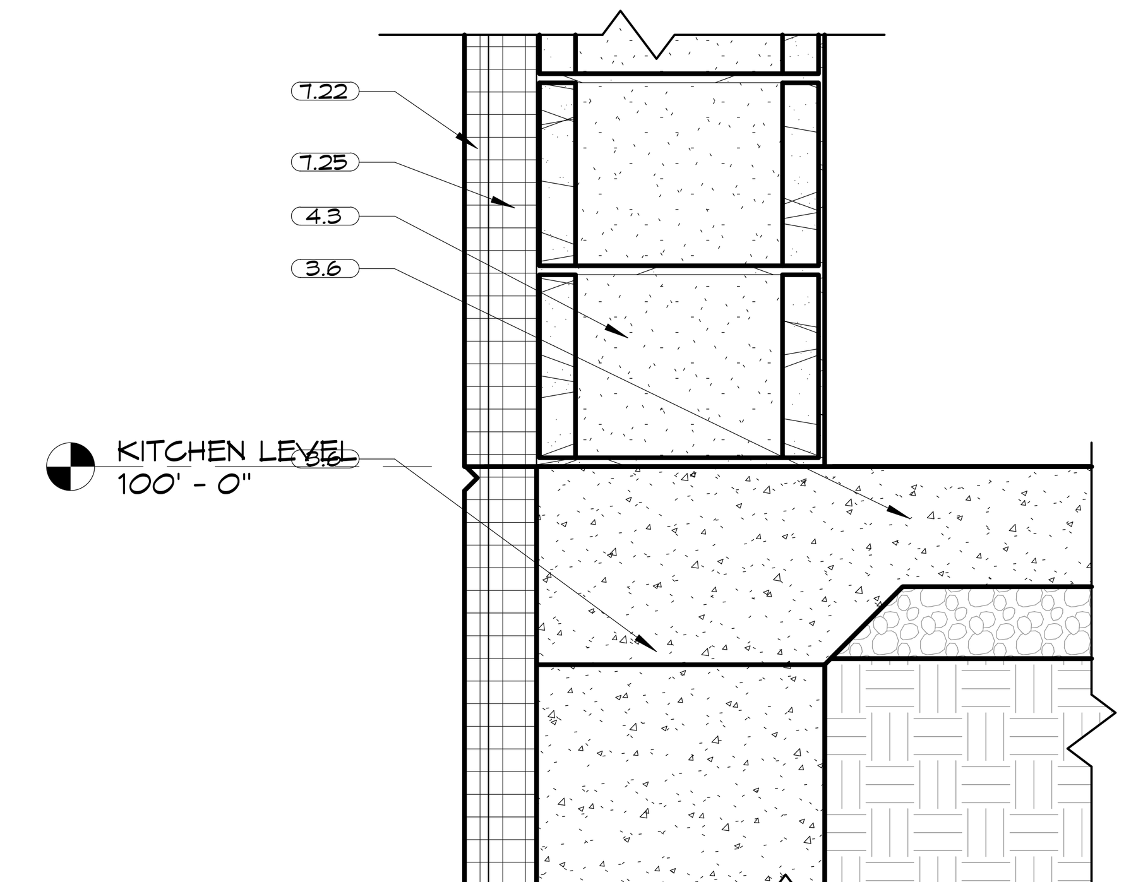
C2 A501 DETAIL @ INTERIOR WALL
1 1/2" = 1'-0"



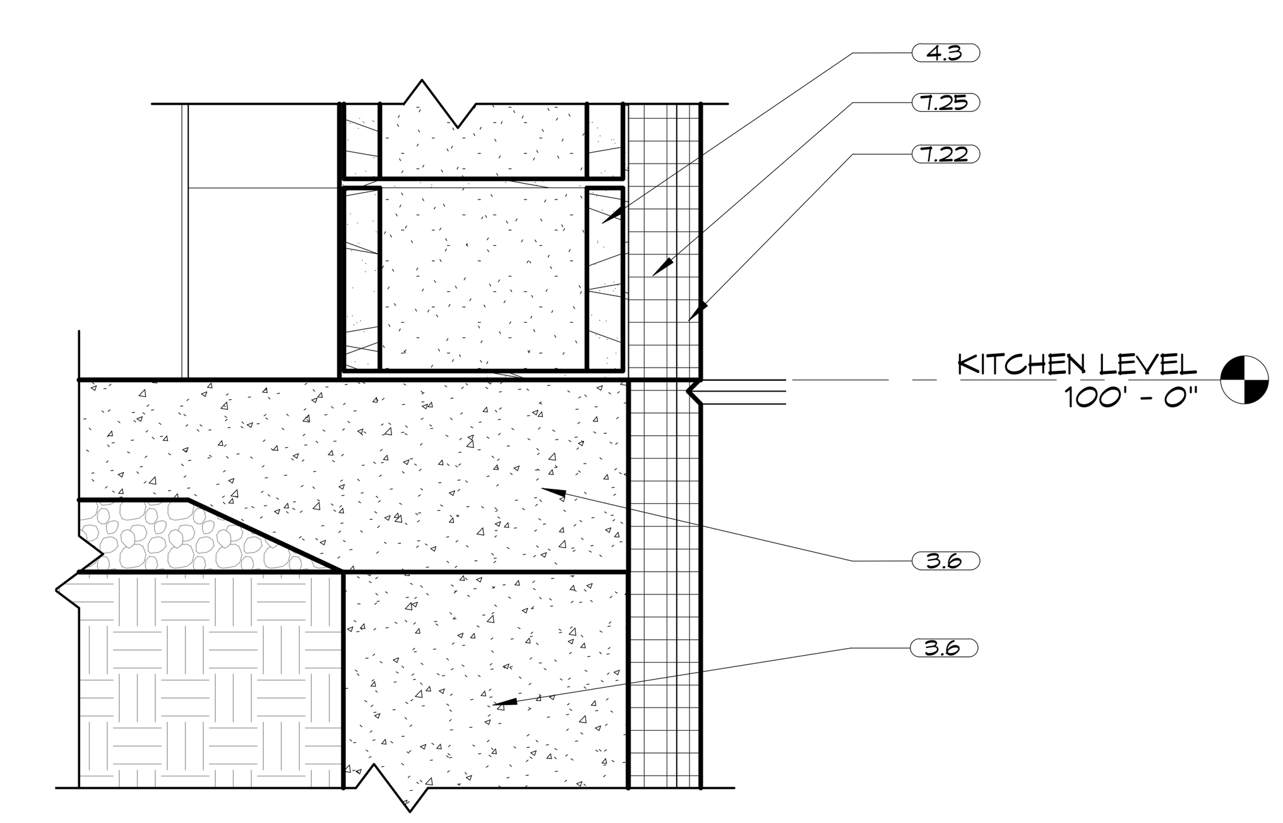
D5 A501 DETAIL @ FOUNDATION
1 1/2" = 1'-0"



D4 A501 DETAIL @ TRANSPORT VESTIBULE FOUNDATION
1 1/2" = 1'-0"



D2 A501 DETAIL @ RECEIVING FOUNDATION
1 1/2" = 1'-0"



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

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

REV	DESCRIPTION	DATE

Project Number: 16036

Date: 7/7/17

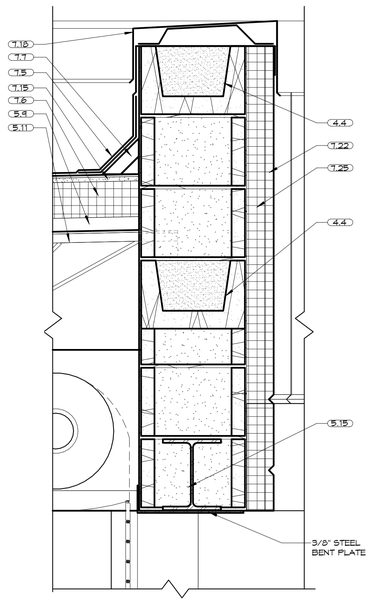
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

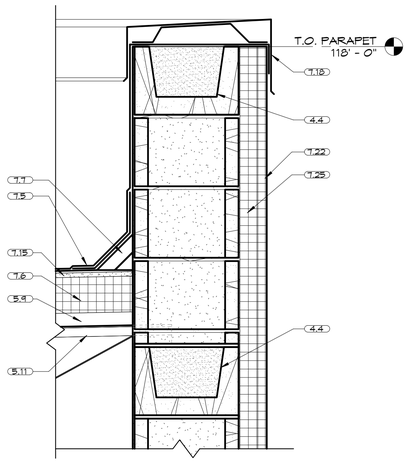
Sheet Title:
FLOOR TO FOUNDATION DETAILS

Sheet:
A501

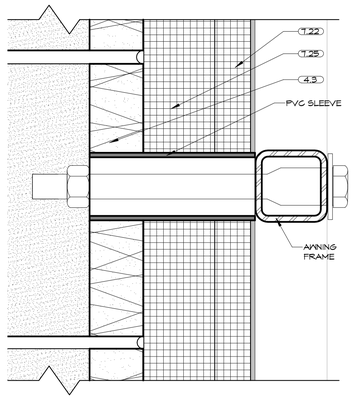
Of:



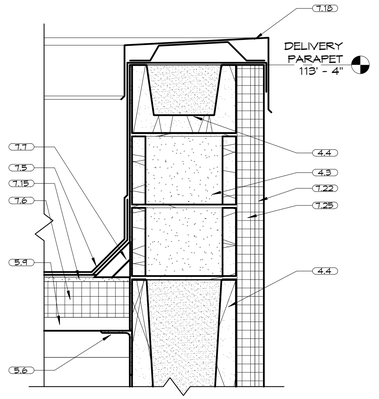
B5 A502 DETAIL @ RECEIVING COILING DOOR
1 1/2" = 1'-0"



B3 A502 DETAIL @ JOIST BEARING
1 1/2" = 1'-0"

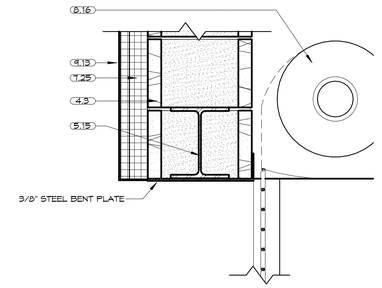


A3 A502 DETAIL @ CANOPY CONNECTION
6" = 1'-0"

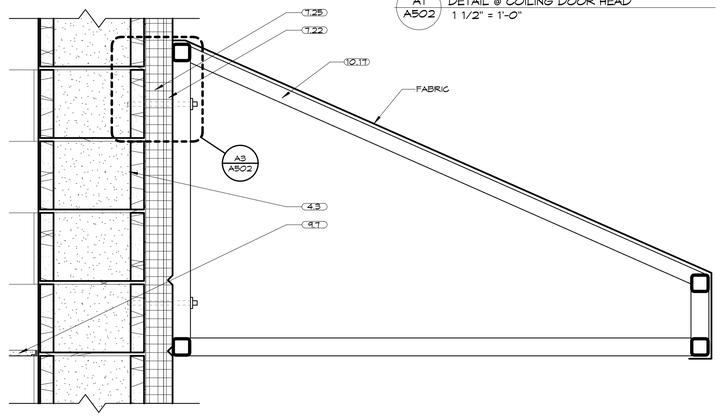


A2 A502 DETAIL @ DELIVERY PARAPET
1 1/2" = 1'-0"

NOTES	
4.3	12" C.M.U.
4.4	12" C.M.U. BOND BEAM
5.6	STEEL ANGLE- SEE STRUCTURAL DRWG.
5.9	STEEL ROOF DECK- SEE STRUCTURAL DRWG.
5.11	STEEL BAR JOISTS
5.15	STEEL LINTEL- SEE STRUCTURAL
6.1	1/2" PLYWOOD SHEATHING
7.5	APP MOD. BIT. ROOFING MEMBRANE
7.6	4" RIGID ROOF INSULATION
7.7	CANT STRIP
7.10	SHEET METAL COUNTER FLASHING
7.12	TERMINATION BAR
7.15	1/2" COVER BOARD
7.16	8" ALUMINUM BOX GUTTER
7.18	MANUFACTURED METAL COPING
7.21	5" X 5" ALUMINUM DOWNSPOUT
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
8.16	OVERHEAD COILING DOOR- MOTORIZED
9.7	TYPE 1 ACOUSTICAL CEILING TILE
9.13	EXTERIOR ACRYLIC POLYURETHANE ENAMAL
10.17	METAL AWNING



A1 A502 DETAIL @ COILING DOOR HEAD
1 1/2" = 1'-0"

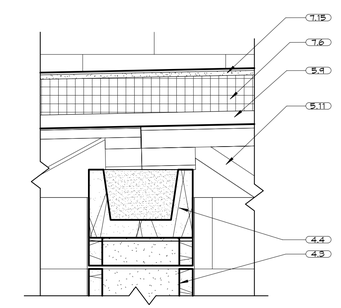


C2 A502 DETAIL @ CANOPY
1 1/2" = 1'-0"

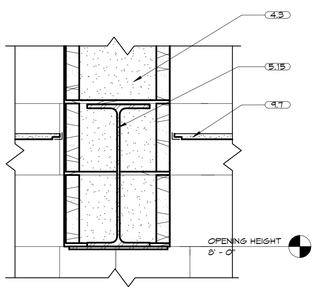
C5 A502 DETAIL @ TRANSPORT DOCK GUTTER
1 1/2" = 1'-0"

C4 A502 DETAIL @ COUNTER FLASHING
1 1/2" = 1'-0"

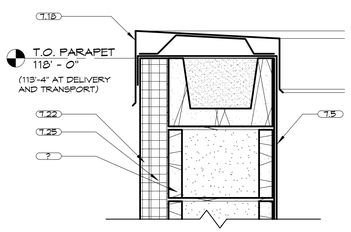
C3 A502 DETAIL @ RECEIVING GUTTER
1 1/2" = 1'-0"



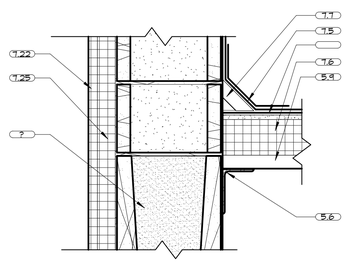
D5 A502 DETAIL @ INTERIOR JOIST BEARING
1 1/2" = 1'-0"



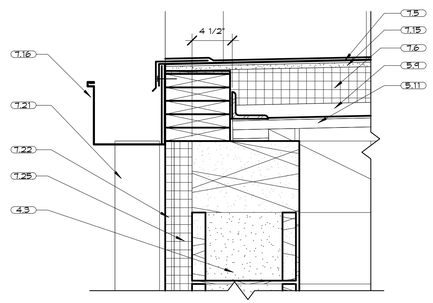
D4 A502 DETAIL @ LINTEL
1 1/2" = 1'-0"



D3 A502 DETAIL @ PARAPET CAP
1 1/2" = 1'-0"



D2 A502 DETAIL @ ROOF
1 1/2" = 1'-0"



D1 A502 DETAIL @ GUTTER
1 1/2" = 1'-0"

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 WAMEGO-DISTRICT KITCHEN

Project Address:

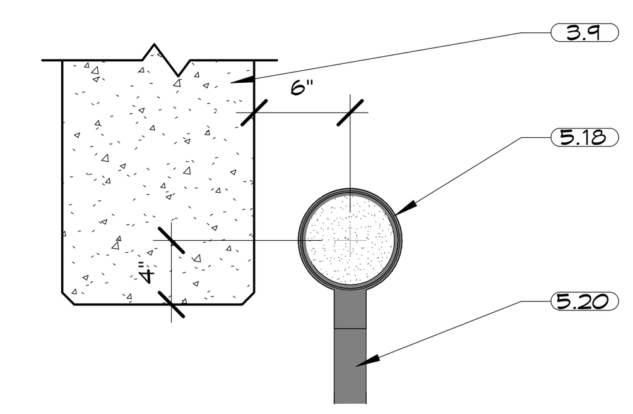
**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:

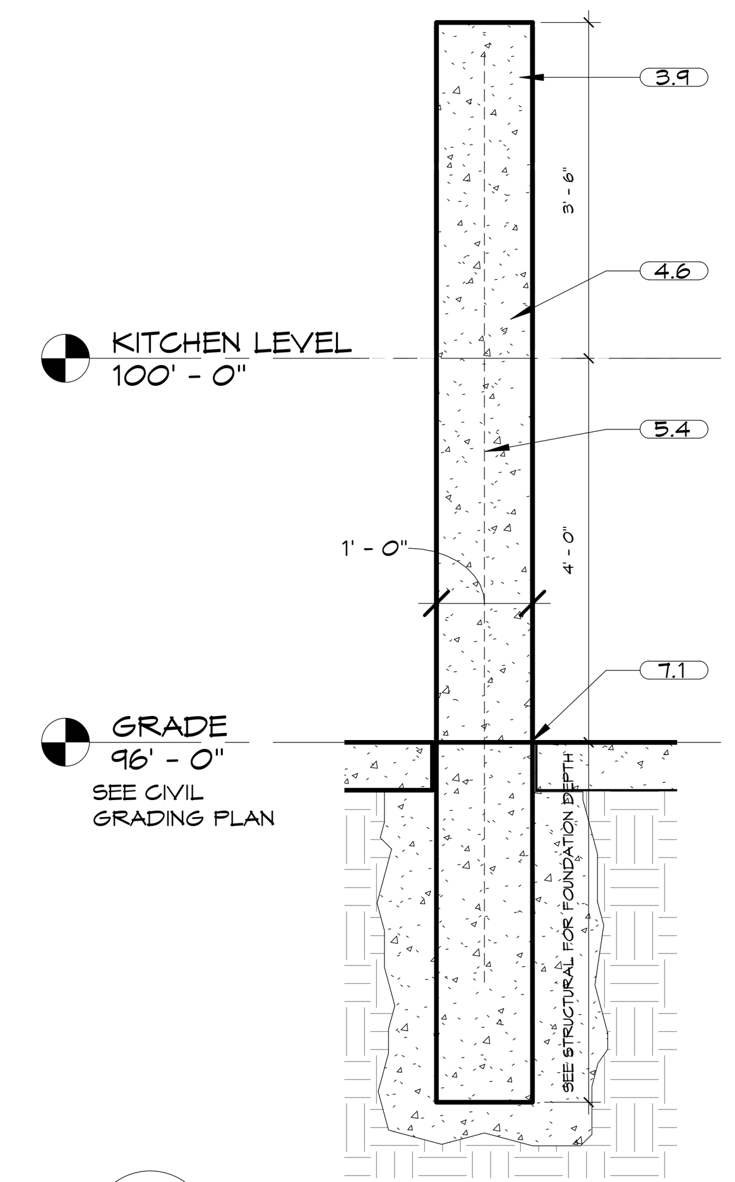
DETAILS

Sheet: **A502**

Of:

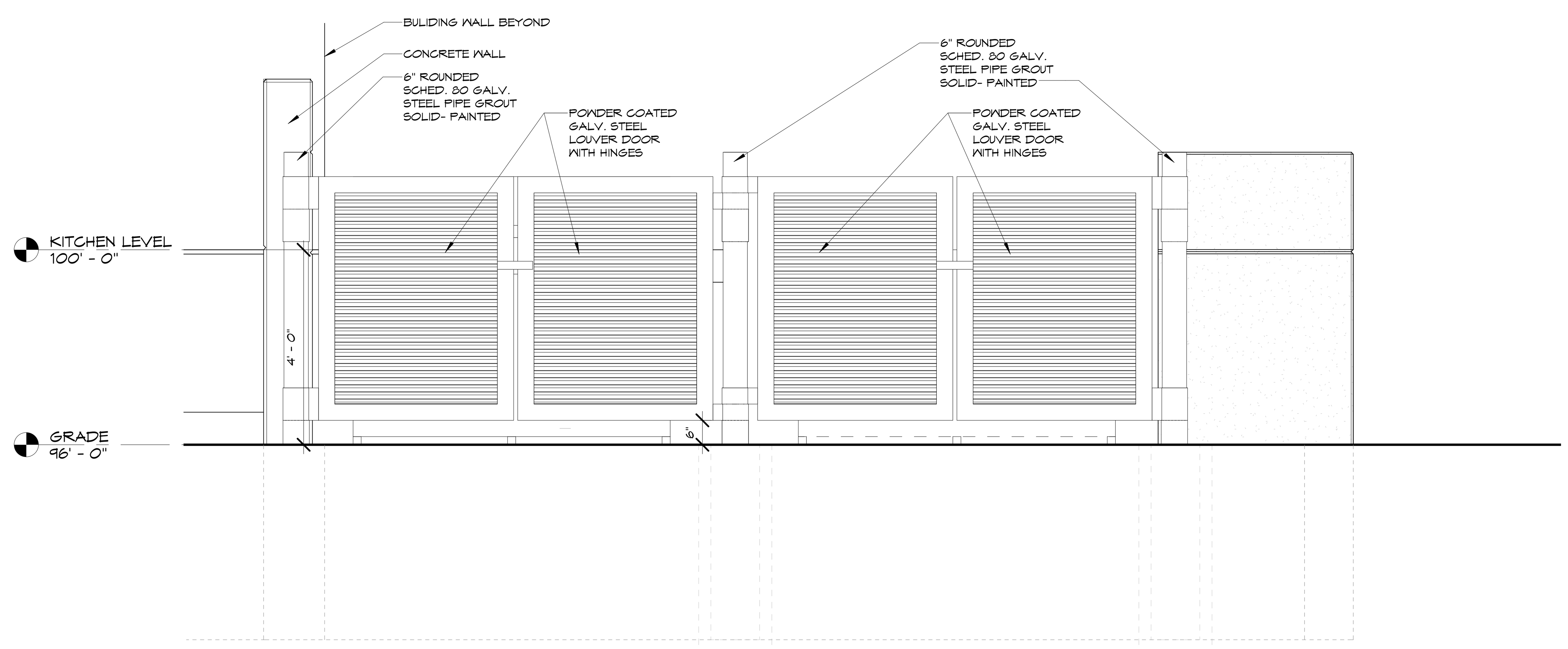


A3
A503
DETAIL @ TRASH ENCLOSURE DOOR POST
1" = 1'-0"



A2
A503
SECTION @ TRASH ENCLOSURE
1/2" = 1'-0"

NOTES	
3.9	CAST-IN-PLACE CONCRETE WALL
4.6	SOLID GROUT
5.4	STEEL REINFORCING-SEE STRUCTURAL
5.18	GALVANIZED 6" STEEL BOLLARD
5.20	GALVANIZED STEEL TRASH GATE- 2" X 4" FRAME W/LOUVERS
7.1	JOINT SEALANT



C3
A503
TRASH ENCLOSURE- EAST ELEVATION
1/2" = 1'-0"

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 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:

SITE DETAILS

Sheet:

A503

Of:

ROOM FINISH SCHEDULE														
ROOM NUMBER	NAME	FLOOR FINISH	BASE FINISH	NORTH MATERIAL	NORTH FINISH	EAST MATERIAL	EAST FINISH	SOUTH MATERIAL	SOUTH FINISH	WEST MATERIAL	WEST FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
101	VEST	WOC	R	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-2	9' - 4"	
102	BREAK/CONF	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-3	ACP-2	9' - 4"	
103	RESTROOM	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	9' - 4"	
104	RESTROOM	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	9' - 4"	
105	LAUNDRY	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	8' - 0"	
106	LOCKERS	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-2	9' - 4"	
107	ENTRY	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	9' - 0"	
108	MECHANICAL ROOM	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	EXP		
109	OFFICE	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	9' - 4"	
110	TRANSPORT CARTS	ER	EB	CMU	EP-1	CMU	EP-1	---	---	CMU	EP-1	ACP-1	10' - 0"	
111	PRODUCTION	ER	EB	---	---	CMU	EP-2	CMU	EP-1	CMU	EP-2	ACP-1	10' - 0"	
112	WARE WASH	ER	EB	---	---	CMU	EP-2	---	---	CMU	EP-1	ACP-1	10' - 0"	
113	FREEZER	SC	---	---	---	---	---	---	---	---	---	---		
114	REFRIGERATOR	SC	---	---	---	---	---	---	---	---	---	---		
115	DRY STORAGE	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	10' - 0"	
116	RECEIVING VESTIBULE	ER	EB	CMU	EP-1	---	---	CMU	EP-1	CMU	EP-1	ACP-1	9' - 0"	
117	RECEIVING	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	---	---	ACP-1	9' - 0"	
118	HALLWAY	ER	EB	---	---	CMU	EP-1	---	---	CMU	EP-2	ACP-1	10' - 0"	
119	CATERING	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	10' - 0"	
120	JANITOR	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	10' - 0"	
121	CART WASH	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	10' - 0"	
122	COLD HOLD	SC	---	---	---	---	---	---	---	---	---	---		
123	TRANSPORT VESTIBULE	ER	EB	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP-1	8' - 8"	

MATERIAL/FINISH KEY

FLOOR FINISHES:
SC - SEALED CONCRETE
ER - EPOXY RESIN
WOC - WALK OFF CARPET

BASE FINISHES:
R - 4" RUBBER BASE COVED
EB - EPOXY RESIN BASE

WALL MATERIAL:
CMU - CONCRETE MASONRY UNIT

WALL FINISH:
EP 1 - EPOXY PAINT COLOR 1
EP 2 - EPOXY PAINT COLOR 2

CEILING FINISH:
ACP1 - ACOUSTIC PANEL CEILING - ARMSTRONG GEORGIAN ITEM 794
ACP2 - ACOUSTIC PANEL CEILING - ARMSTRONG CIRRUS ITEM 584
EXP - EXPOSED CEILING

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

REV	DESCRIPTION	DATE

PATRICK A. SCHEIB
17-775
KANSAS
PROFESSIONAL ARCHITECT
7-7-2017

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
ROOM FINISH SCHEDULE

Sheet: **A601**

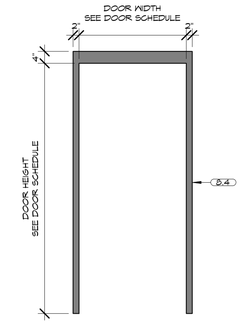
Of:

DOOR SCHEDULE												
	DOOR		DOOR		FRAME			DETAILS				
DOOR NUMBER	WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	TYPE	FIRE RATING	HEAD	JAMB	THRESHOLD	HARDWARE	COMMENTS
101A	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-1.0	
101B	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-9.0	
103	3' - 0"	7' - 0"	HM	1	HM	1	---	---	---		K-8.0	
104	3' - 0"	7' - 0"	HM	1	HM	1	---	---	---		K-8.0	
105	3' - 0"	7' - 0"	HM	1	HM	1	---	---	---		K-10.0	
106	3' - 0"	7' - 0"	HM	1	HM	1	---	---	---		K-12.0	
107	3' - 0"	7' - 0"	HM	1	HM	1	---	---	---		K-4.0	
108A	6' - 4"	7' - 0"	HM	3	HM	1	---	---	---		K-16.0	
108B	3' - 0"	7' - 0"	HM	1	HM	1	---	---	---		K-11.0	
109A	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-7.0	
109B	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-7.0	
110	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-1.0	
112	3' - 0"	7' - 0"	HM		HM	1	---	---	---		K-13.0	
115	6' - 4"	7' - 0"	HM	3	HM	1	---	---	---		K-12.0	
117A	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-1.0	
117B	8' - 8"	9' - 0"	---	---	---	---	---	A1/A50	---		K-2.0	OVERHEAD COILING DOOR
119	3' - 0"	7' - 0"	HM		HM	1	---	---	---		K-10.0	
120	3' - 0"	7' - 0"	HM		HM	1	---	---	---		K-10.0	
123A	8' - 0"	8' - 0"	---	---	---	---	---	A1/A502	---		K-2.0	OVERHEAD COILING DOOR
123B	3' - 0"	7' - 0"	HM	2	HM	1	---	---	---		K-3.0	

NOTES:

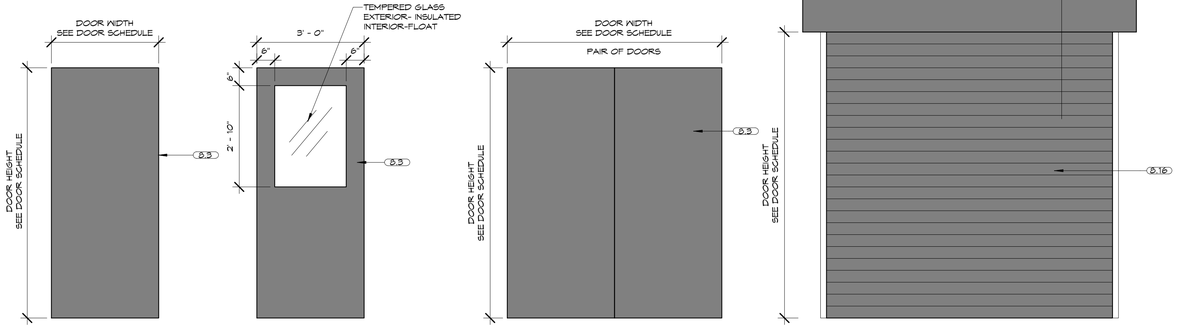
1. FOR ALL EXTERIOR DOORS REFER TO DETAILS D3/A701 AND D1/A701 UNLESS NOTED OTHERWISE IN SCHEDULE.
2. FOR ALL INTERIOR DOORS REFER TO DETAILS D3/A701 AND D4/A701 UNLESS NOTED OTHERWISE IN SCHEDULE.

NOTES	
8.1	ALUMINUM STOREFRONT
8.3	HOLLOW METAL DOOR
8.4	HOLLOW METAL FRAME
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.11	GLASS TYPE 7- CLEAR TEMPERED
8.16	OVERHEAD COILING DOOR- MOTORIZED

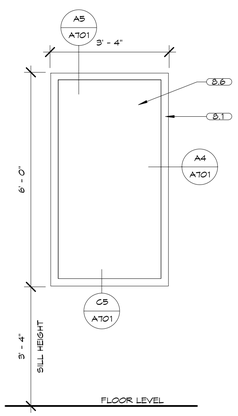


FRAME TYPE 1

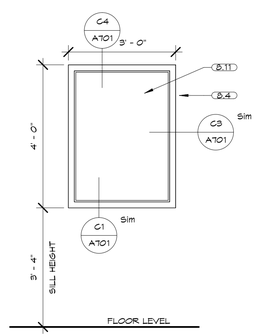
C5 A602 FRAME TYPES
1/2" = 1'-0"



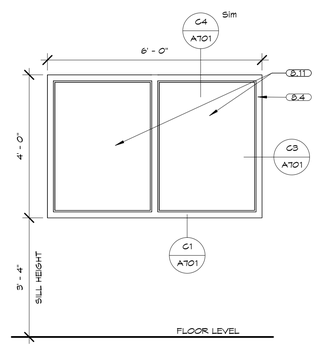
C4 A602 DOOR TYPES
1/2" = 1'-0"



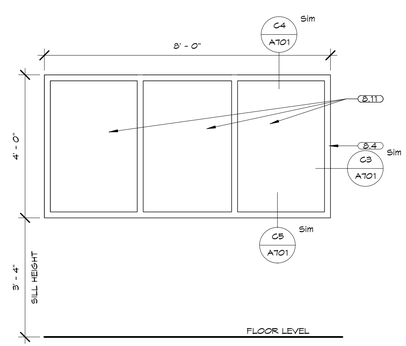
D4 A602 WINDOW- TYPE A
1/2" = 1'-0"



D3 A602 TYPE 2 - WINDOW
1/2" = 1'-0"



D2 A602 TYPE 3 - WINDOW
1/2" = 1'-0"



D1 A602 TYPE 4 - WINDOW
1/2" = 1'-0"

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

REV	DESCRIPTION	DATE

PATRICK A. SCHEIB
7-7-2017
KANSAS
REGISTERED
PROFESSIONAL ARCHITECT

Project Number: 16036

Date: 7/7/17

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

**4290 COLUMBIAN ROAD
WAMEGO, KS**

Sheet Title:

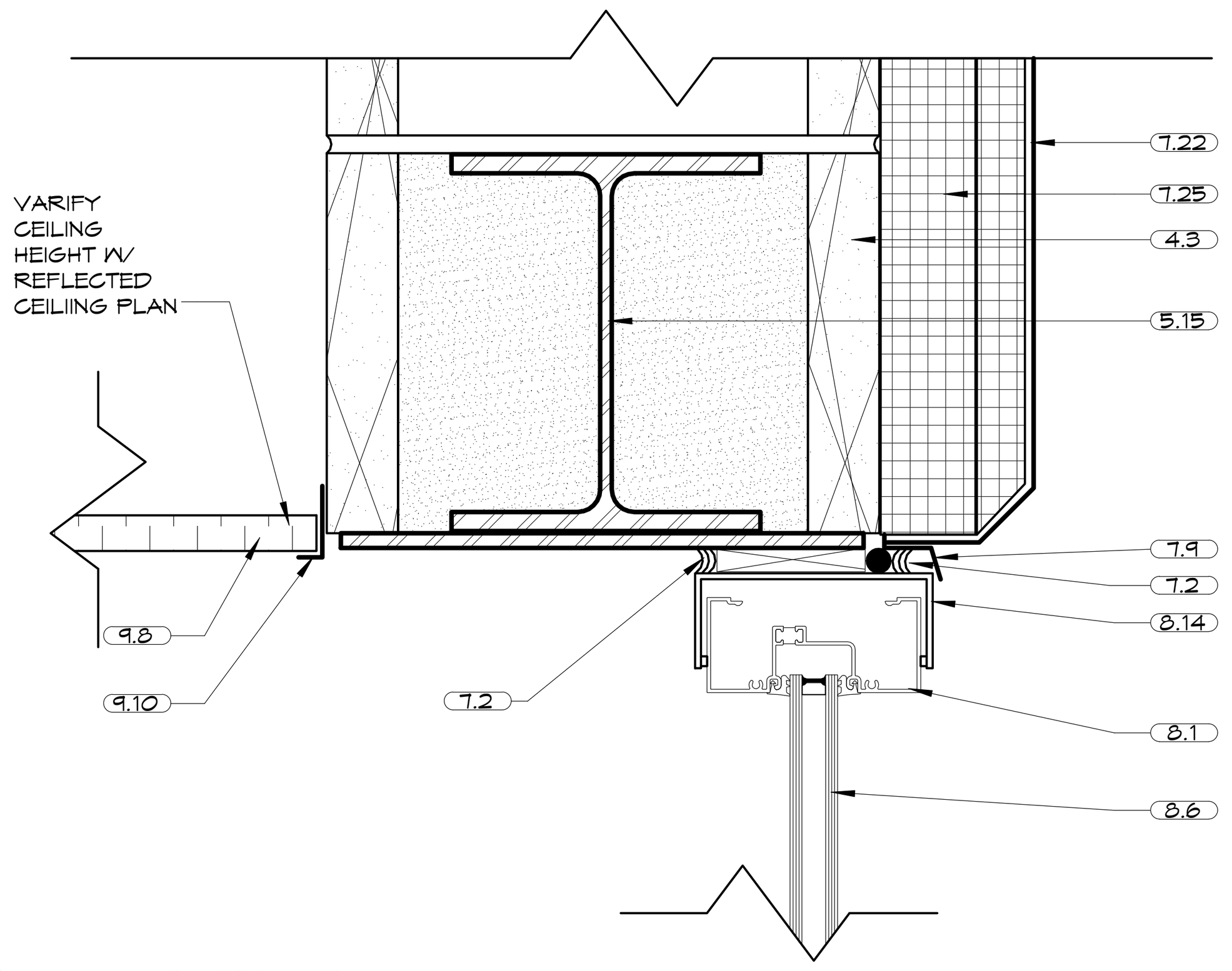
DOOR SCHEDULE

Sheet: **A602**

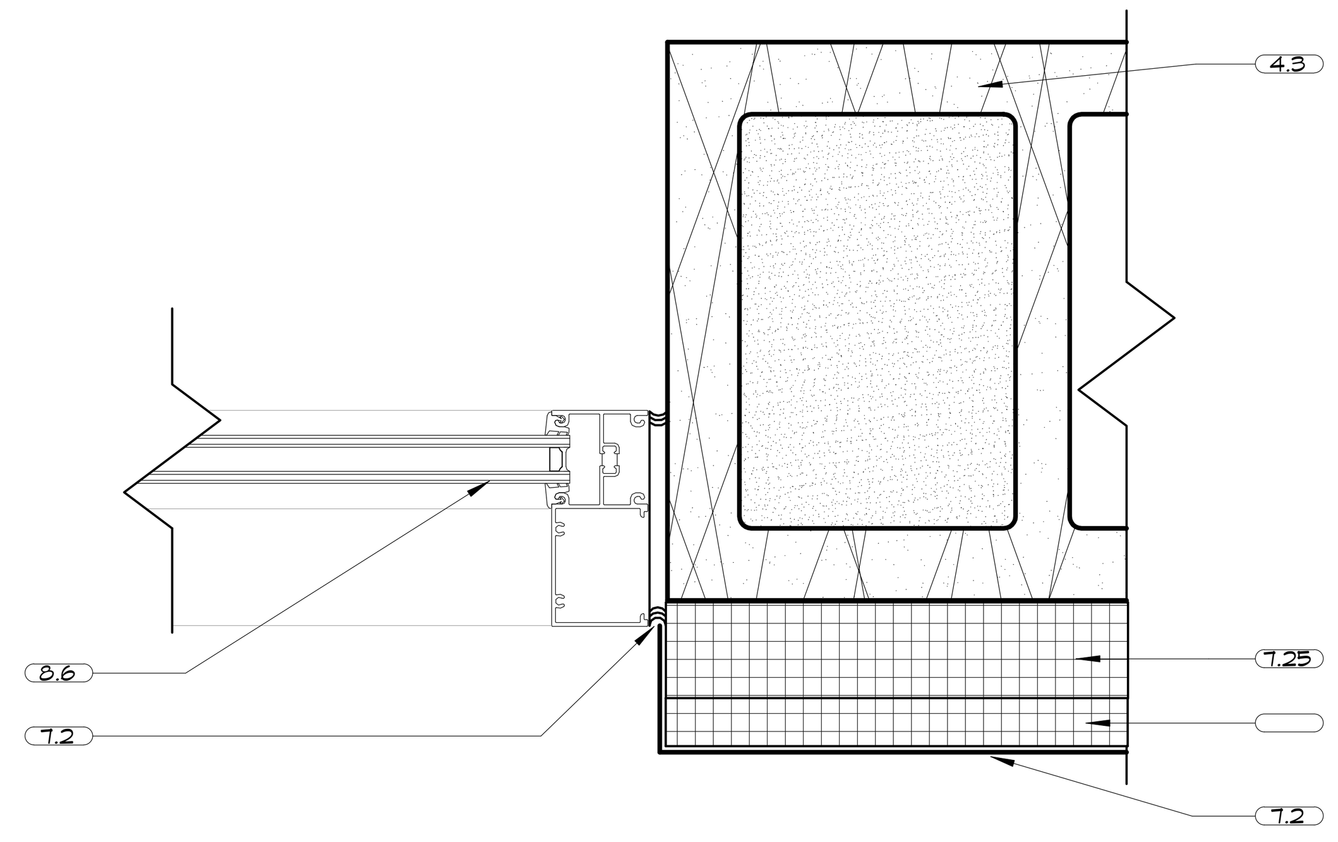
Of:

5 4 3 2 1

A B C D

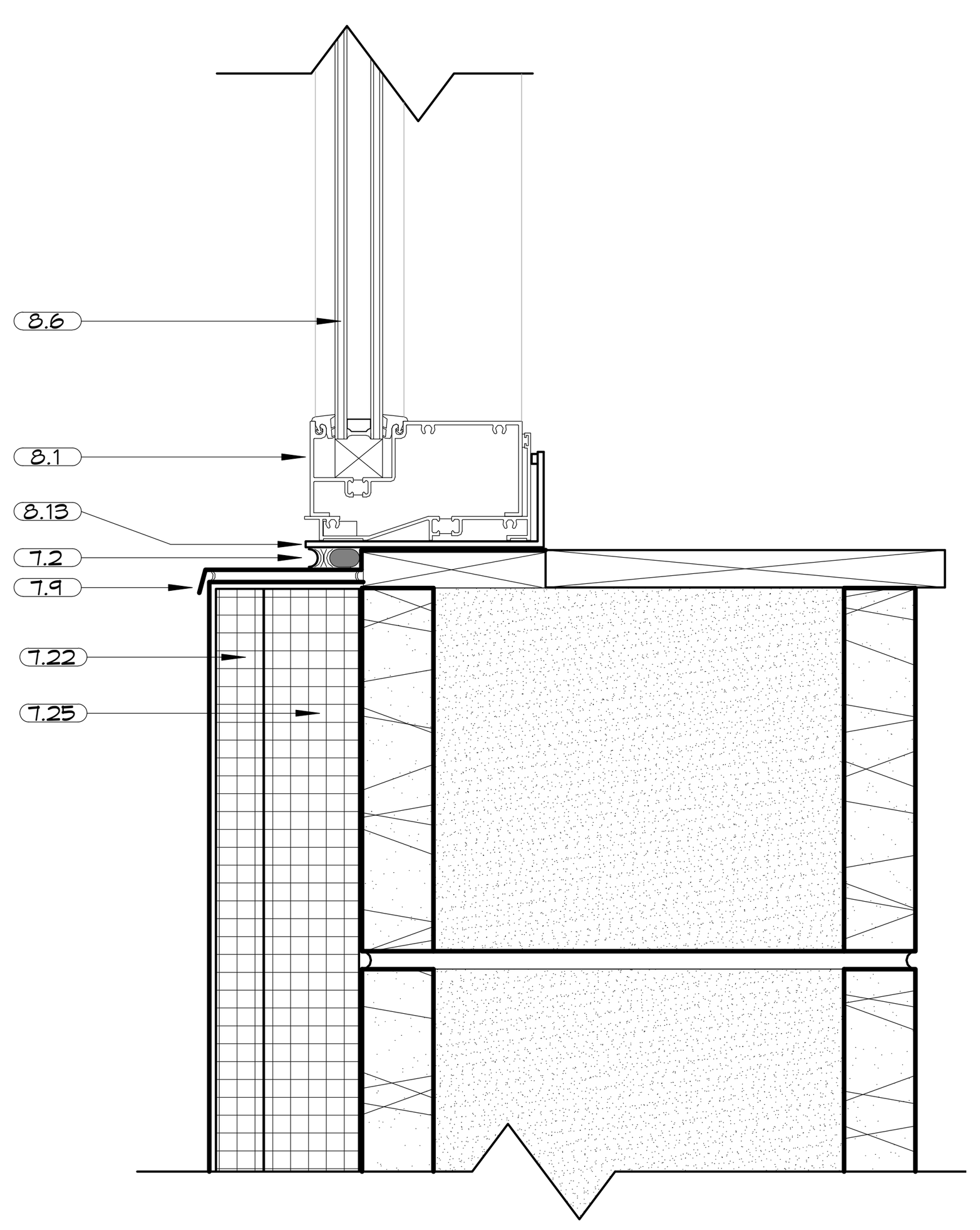


A5 WINDOW TYPE 1 - HEAD
A701 3" = 1'-0"

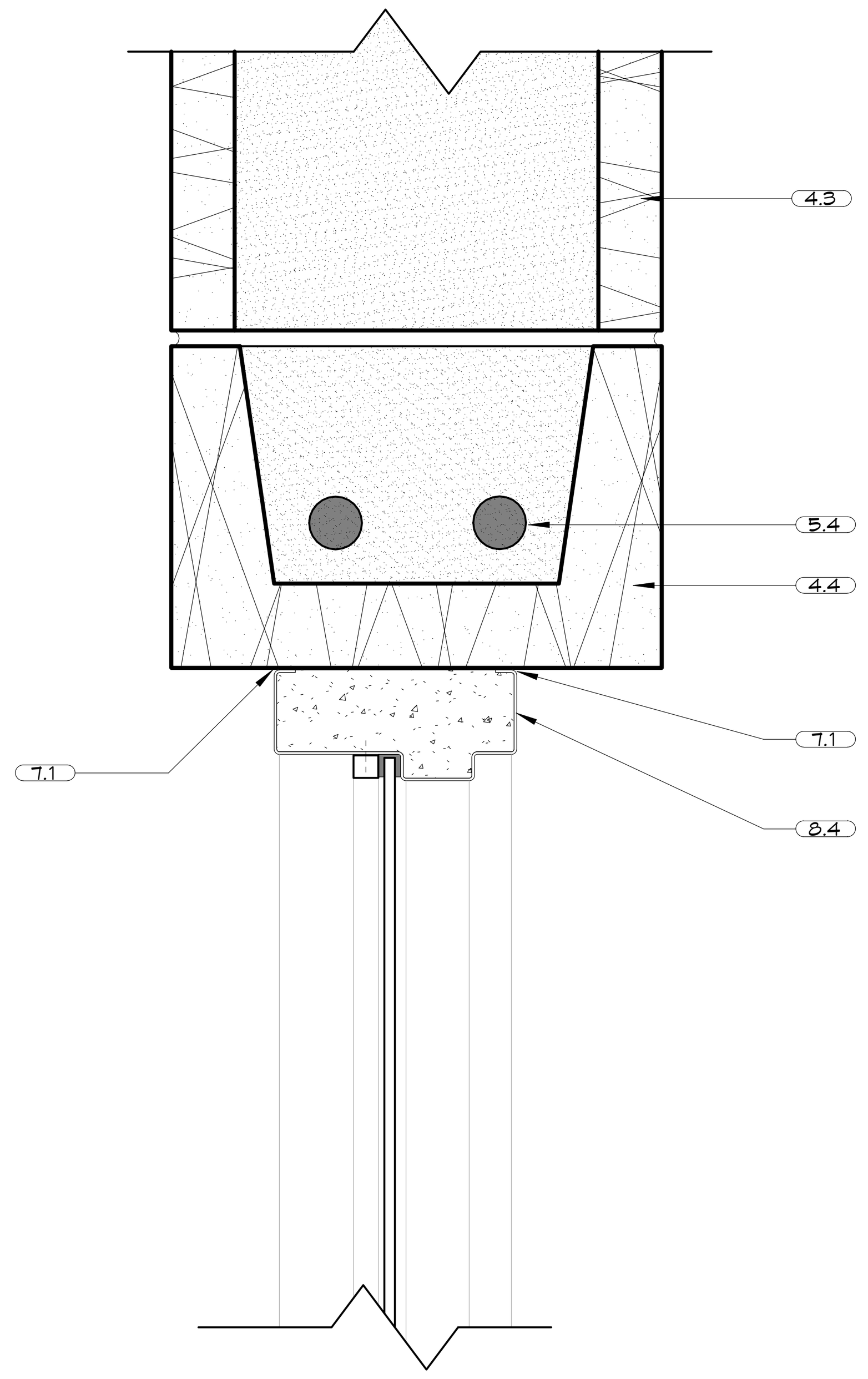


A4 WINDOW TYPE 1 - JAMB
A701 3" = 1'-0"

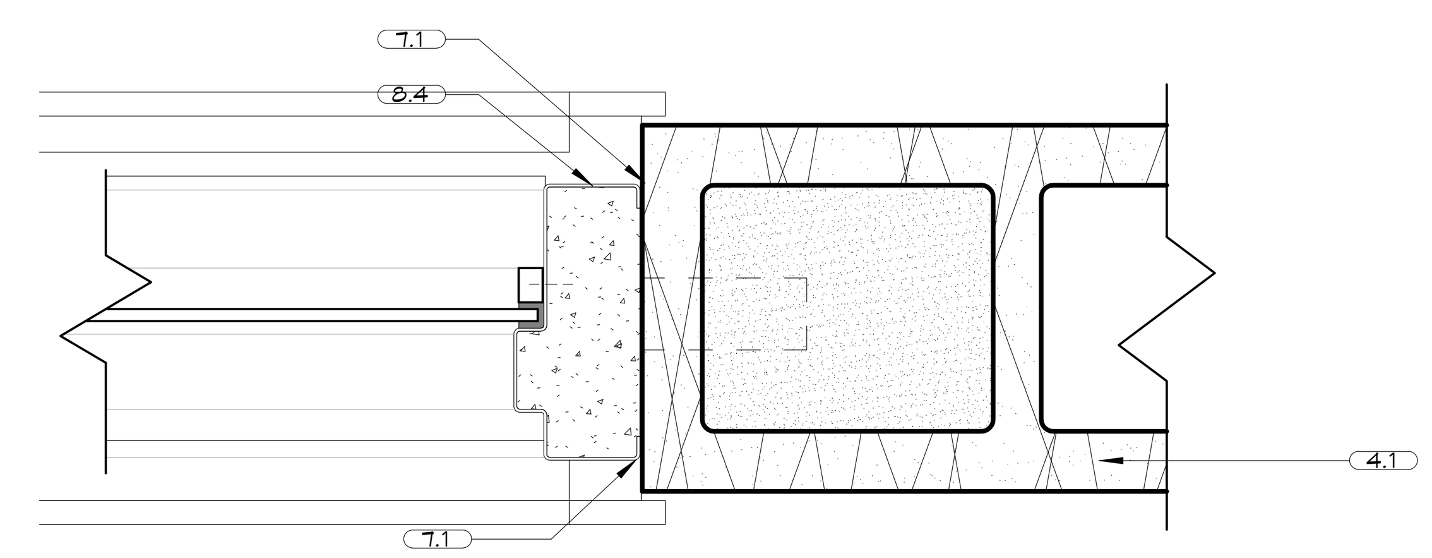
NOTES	
4.1	8" C.M.U.
4.3	12" C.M.U.
4.4	12" C.M.U. BOND BEAM
5.4	STEEL REINFORCING-SEE STRUCTURAL
5.15	STEEL LINTEL- SEE STRUCTURAL
7.1	JOINT SEALANT
7.2	BACKER ROD AND SEALANT
7.9	SHEET METAL FLASHING
7.22	E.I.F.S. VENEER
7.25	2" RIGID WALL INSULATION
8.1	ALUMINUM STOREFRONT
8.3	HOLLOW METAL DOOR
8.4	HOLLOW METAL FRAME
8.6	GLASS TYPE 1- CLEAR INSUL. TEMPERED
8.13	ALUMINUM STOREFRONT SILL PAN
8.14	ALUMINUM STOREFRONT DEFLECTION RECEPTOR
9.8	TYPE 2 ACOUSTICAL CEILING TILE- KITCHEN
9.10	TYPE 2 SUSPENDED CEILING SYSTEM-KITCHEN



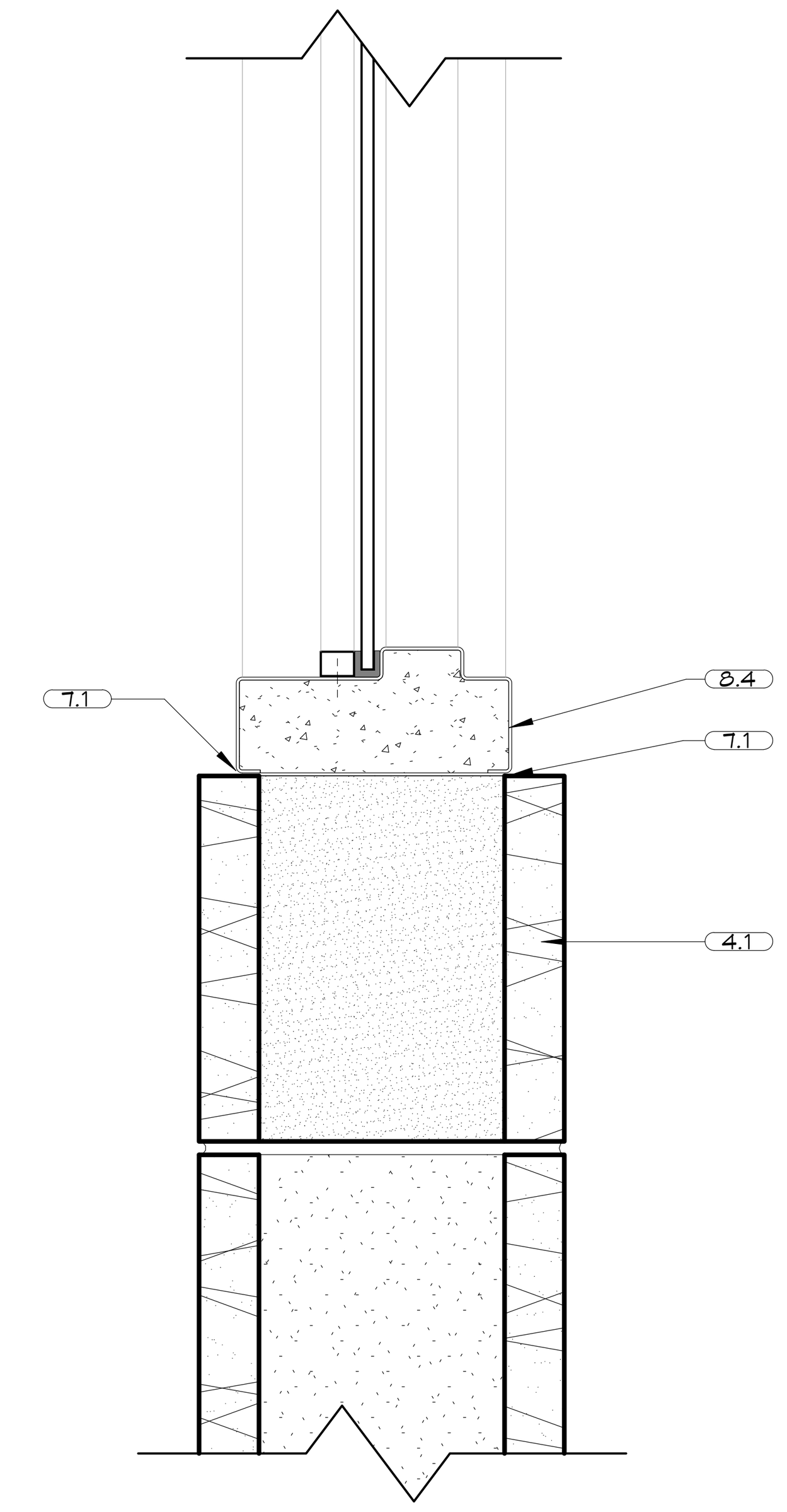
C5 EXTERIOR WINDOW SILL DETAIL
A701 3" = 1'-0"



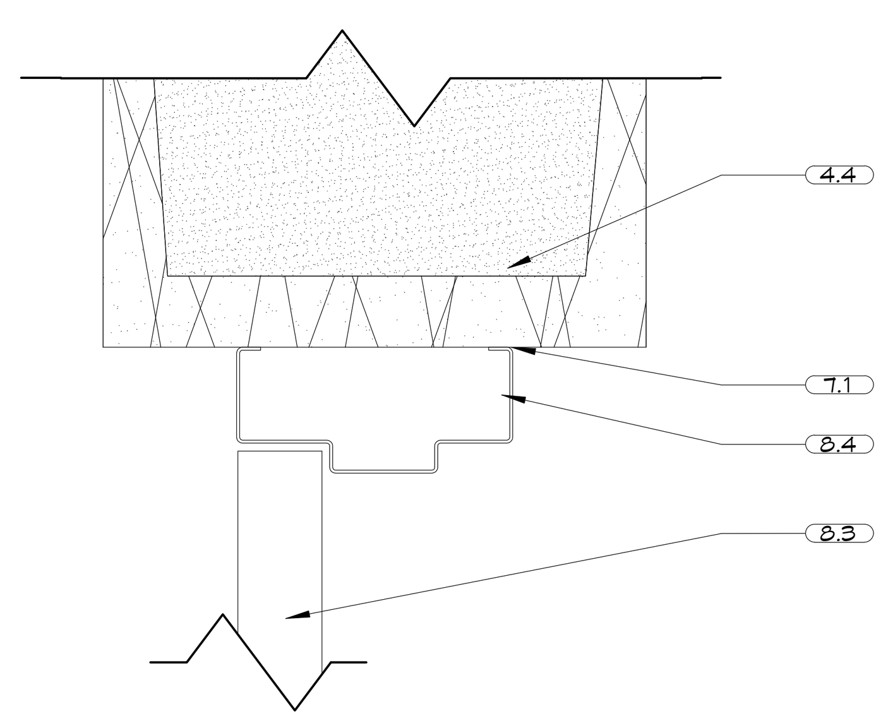
C4 INTERIOR WINDOW HEAD DETAIL
A701 3" = 1'-0"



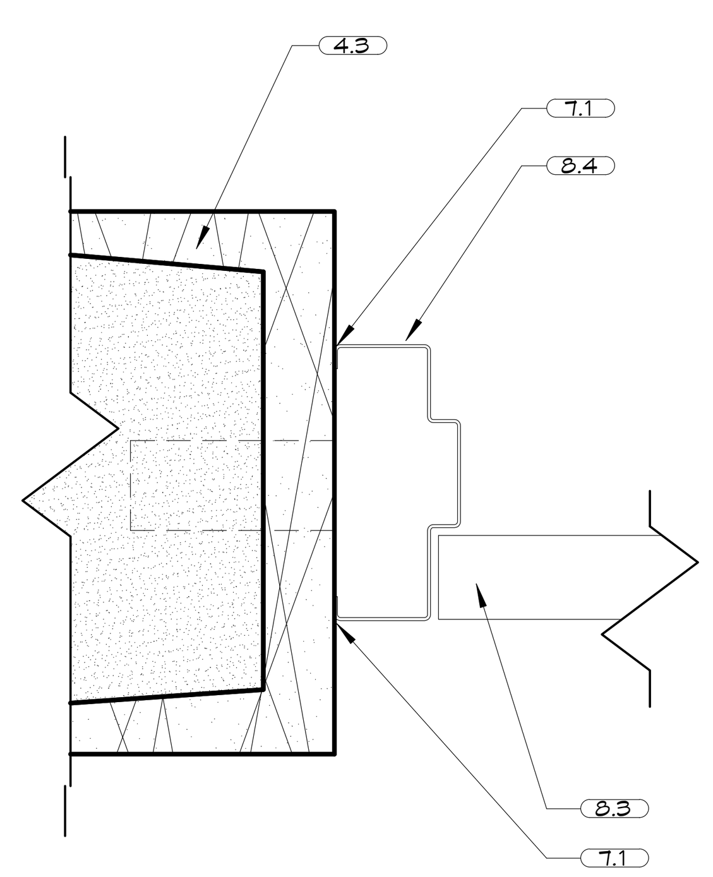
C3 INTERIOR WINDOW JAMB DETAIL
A701 3" = 1'-0"



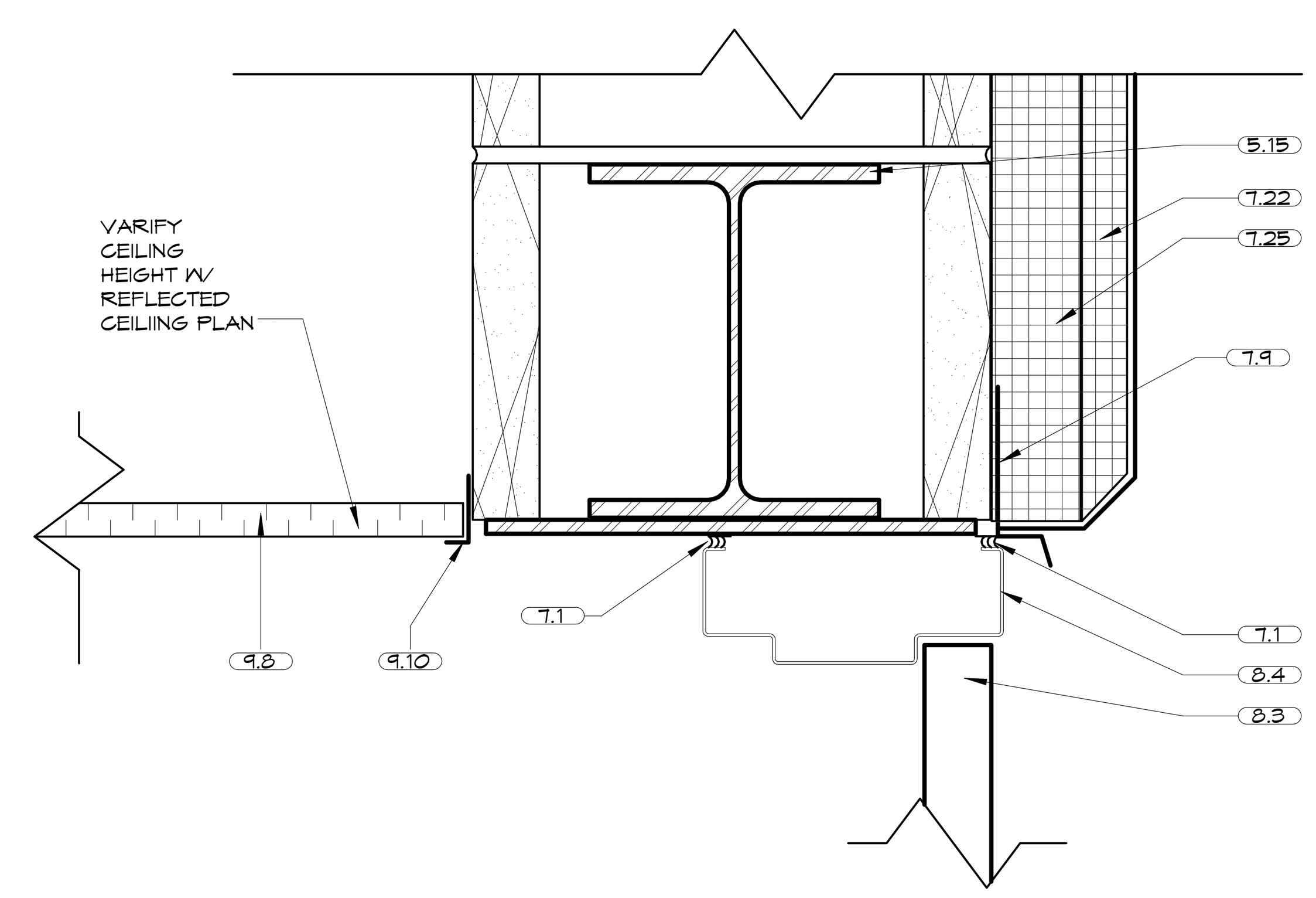
C1 INTERIOR WINDOW SILL DETAIL
A701 3" = 1'-0"



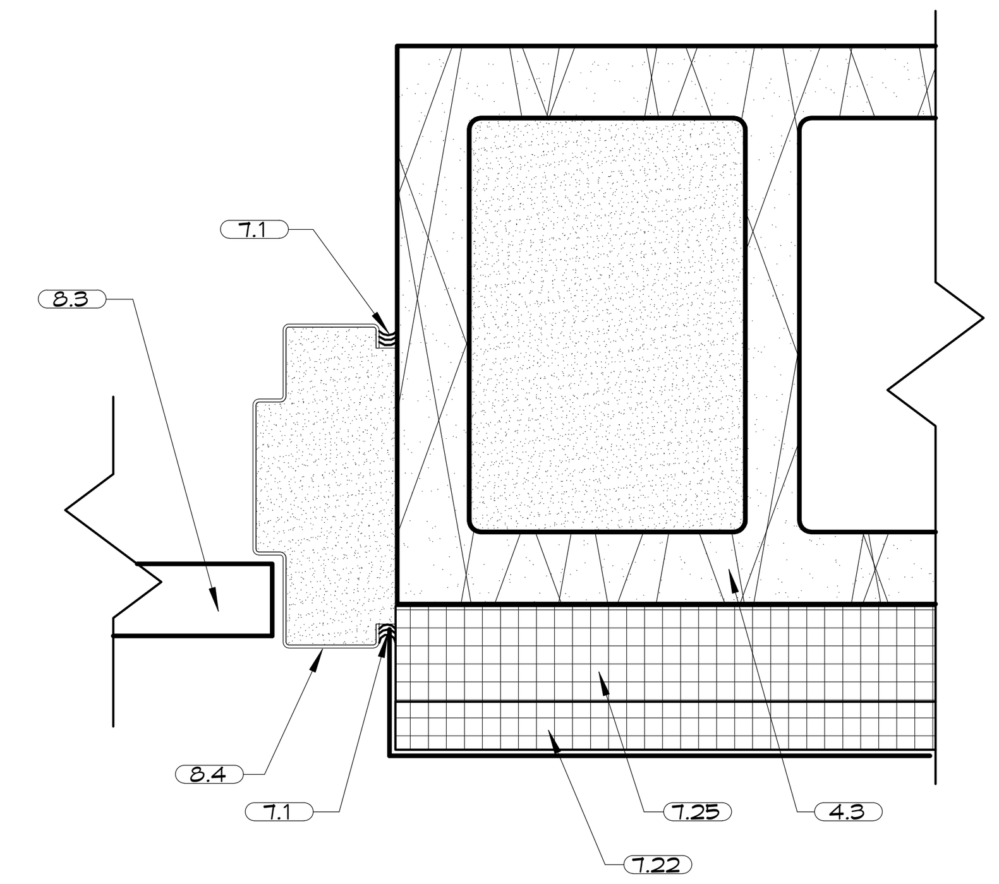
D5 TYPICAL INTERIOR DOOR HEAD
A701 3" = 1'-0"



D4 TYPICAL INTERIOR DOOR JAMB
A701 3" = 1'-0"



D3 DETAIL @ TYP. EXTERIOR DOOR HEAD
A701 3" = 1'-0"



D1 DETAIL @ TYP. EXTERIOR DOOR JAMB
A701 3" = 1'-0"

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 WAMEGO-DISTRICT KITCHEN

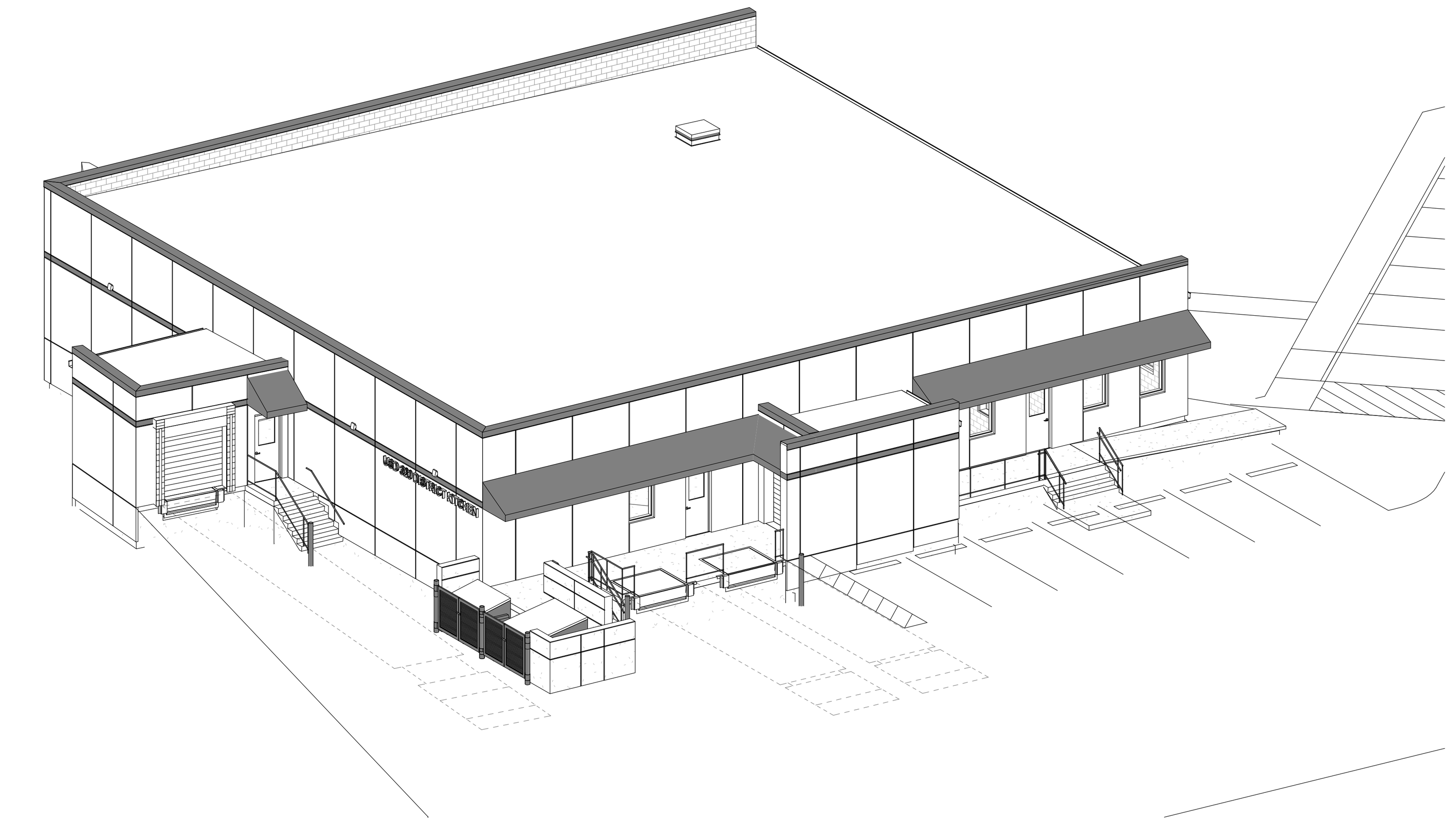
Project Address:
4290 COLUMBIAN ROAD WAMEGO, KS

Sheet Title:
DOOR AND WINDOW DETAILS

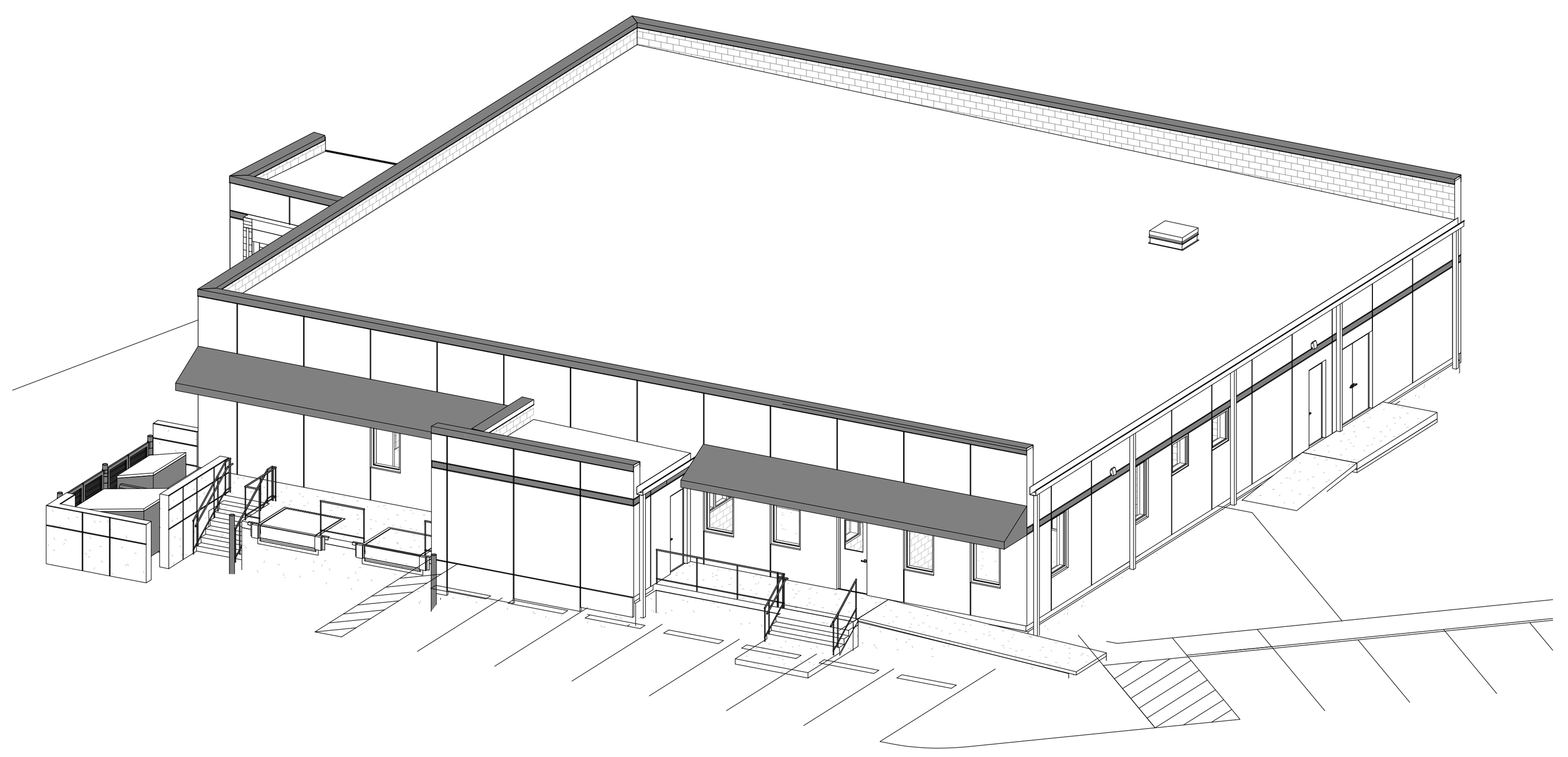
Sheet:
A701

Of:

5 4 3 2 1



2
A901 NORTHE



3
A901 NORTHW

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

SEE FOOD SERVICE DRAWINGS FOR EQUIPMENT DETAILS

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

REV	DESCRIPTION	DATE

PATRICK A. SCHAUB
3775
KANSAS
PROFESSIONAL ARCHITECT
7.7.17

Project Number: 16036

Date: 7/7/17

Project Name:

USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:

4290 COLUMBIAN ROAD
WAMEGO, KS

Sheet Title:

EQUIPMENT PLAN-FOR REFERENCE

Sheet:

A901

Of:

MEP SYMBOLS LEGEND

T	Thermostat		Connection of new to existing
	90° Elbow down, round duct		Duplex receptacle
	90° Elbow up, round duct	GFI	Ground fault interrupting duplex receptacle
	Round duct offset	CT	Countertop duplex receptacle
	Radius elbow	WP	Weatherproof duplex receptacle
	90° Elbow down, rectangular supply duct		Four-plex receptacle
	90° Elbow up, rectangular supply duct		Special receptacle as noted
	90° Elbow down, rectangular return duct		Telephone or intercom box
	90° Elbow up, rectangular return duct	CT	Countertop telephone or intercom box
	Rectangular elbow with turning vanes	W	Wall telephone or intercom box
	Flexible duct		Data box
	Manual balancing damper	CT	Countertop data box
	Motorized damper		Flush floor duplex receptacle
	Ceiling supply air diffuser		Flush floor telephone or intercom box
	Ceiling return air grille		Flush floor data box
	Sidewall supply air diffuser		Pushbutton
	Sidewall return air grille		Cable television box
	Round tap in bottom of duct		Flush junction box
	Rectangular tap in bottom of duct		Surface or concealed junction box
D	Condensate drain		Electrical connection to equipment
C	Cold water	S	Single pole switch
H	Hot water	S_K	Keyed switch
S	Soft cold water	S_2	Two pole switch
T	Tempered water	S_P	Switch with pilot light
	Recirculated water	S_T	Timer switch
T	Recirculated tempered water	S_3	Three-way switch
G	Natural gas	S_4	Four-way switch
ST	Storm sewer above grade	S_M	Manual motor starter
ST	Storm sewer below grade	S_{OS}	Sensor switch
	Sanitary waste above grade		Electrical disconnect switch
	Sanitary waste below grade		Motor starter
	Sanitary vent		Electrical motor
GR	Grease waste below grade		Conduit concealed in wall or ceiling
VTR	Vent through roof		In-floor conduit
	Plumbing trap	G H N	Homerun to panelboard with conductors as indicated. Do not share neutrals unless noted otherwise.
	Pipe turning down	E UG	Underground electrical
	Pipe turning up		Panelboard
	Shock arrestor		Transformer
	Solenoid valve		Electrical meter
	Pressure reducing valve	C\B	Circuit breaker
	Gas cock	UNO	Unless noted otherwise
	Union	AFF	Above finished floor
	Temperature/pressure relief valve	NIC	Not in contract
	Strainer	TYP	Typical
	Aquastat	G.C.	General Contractor
	Thermometer in well		

MECHANICAL EQUIPMENT CONTROL SCHEDULE

		POWER				STARTER			NOTES
Equipment	Location	HP	Kw	FLA	Volts/Phase	By	Size	Cover	1, 2, 3 & _
RTU-1 Rooftop Unit	Roof-See Plans	2	--	13	460/3	--	--	---	5,9,14
RTU-2 Rooftop Unit	Roof-See Plans	3	--	49	460/3	--	--	---	5,9,14
EF-1 Exhaust Fan	Restroom 103	--	0.02	--	120/1	--	--	---	9,13,14
EF-2 Exhaust Fan	Restroom 104	--	0.02	--	120/1	--	--	---	9,13,14
HWP-A Hot Water Circulation Pump	Mechanical 108	1/35	--	0.54	120/1	--	--	---	---
HWH-A Water Heater	Mechanical 108	--	--	5	120/1	--	--	---	7,16
WS Water Softener	Mechanical 108	--	--	0.32	120/1	--	--	---	7,16
AC-1 Air Curtain	Receiving 117	3/4	--	28.1	480/3	--	--	---	5,9,14
AC-2 Air Curtain	Transport 123	3/4	--	28.1	480/3	--	--	---	5,9,14
Kitchen Equipment - Various Items	See Plans	--	--	--	---	--	--	---	18
KEF-1 Kitchen Exhaust Fan	Roof-See Plans	3	--	--	208/3	--	--	---	2,5,9,14
KEF-2 Kitchen Exhaust Fan	Roof-See Plans	1/3	--	--	120/1	--	--	---	2,5,9,14
KEF-3 Kitchen Exhaust Fan	Roof-See Plans	0.25	--	--	120/1	--	--	---	5,9,14
KEF-4 Kitchen Exhaust Fan	Roof-See Plans	0.25	--	--	120/1	--	--	---	5,9,14
KEF-5 Kitchen Exhaust Fan	Roof-See Plans	0.5	--	--	120/1	--	--	---	2,9,14,17
KMAU-1 Kitchen Make-Up Air Unit	Roof-See Plans	5	--	--	208/3	--	--	---	2,5,9,14

GENERAL EQUIPMENT CONTROL SCHEDULE

		POWER				STARTER			NOTES
Equipment	Location	HP	Kw	FLA	Volts/Phase	By	Size	Cover	1, 2, 3 & _
Overhead door opener	See Plans	1	--	--	208/3	--	--	---	4,7
Snow Melt	Upper Landing	--	6.2	--	277/1	--	--	---	3,4,7,14
Snow Melt	Stair	--	1.5	--	277/1	--	--	---	3,4,7,14
Dock leveler	See Plans	1	--	13	120/1	--	--	---	3,4,7

GENERAL MECHANICAL AND ELECTRICAL NOTES

1. Do not scale these drawings.
2. Submittal of detailed piping and electrical conduit installation shop drawings are not required. However, the Contractor shall be responsible for field verification of all dimensions and clearances for all system layouts. This shall be accomplished prior to installation.
3. Maintain maximum possible vertical clearance beneath all new conduit, equipment and piping.
4. These drawings are a schematic representation of the work that is to be accomplished by this Contract. Refer to Architectural reflected ceiling plans and elevations for exact locations of all ceiling and wall mounted devices and equipment.
5. Lack of coordination between trades will not be a basis for change orders. Rework of already completed work to accommodate other trades will be performed at the Contractors' expense.
6. See Specifications for additional requirements.
7. All piping shall be installed concealed in finished areas, unless noted other wise.
8. All new circuitry shall be concealed in finished areas, unless noted otherwise.

EQUIPMENT CONTROL SCHEDULE SYMBOLS AND NOTES

(Note that only those symbols and notes shown in the schedule shall apply)

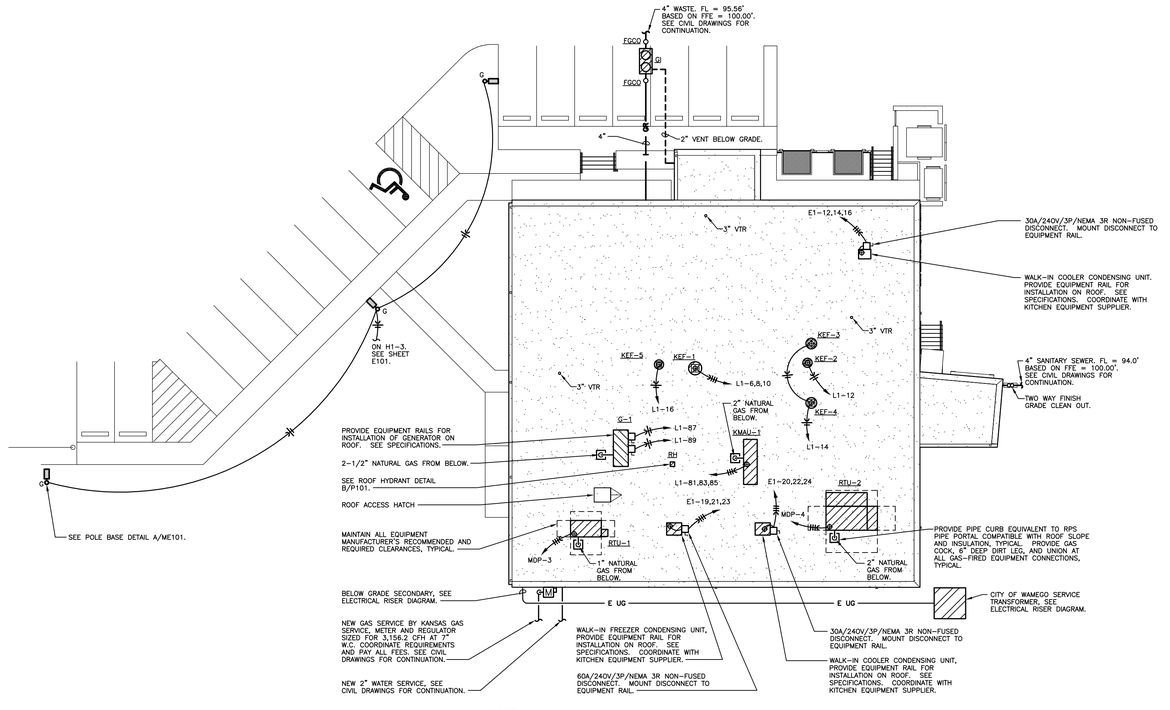
SYMBOLS -

H = HVAC Contractor (MC)
E = Electrical Contractor (EC)
P = Plumbing Contractor
F = Fire Protection Contractor
G = General Contractor
O = Owner

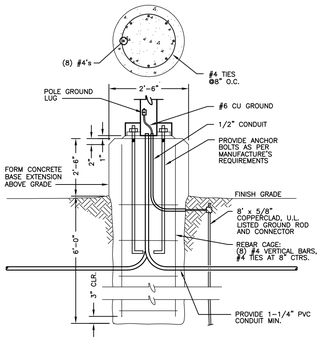
R = Reset Only
RP = Reset w/Pilot Light
SS = Start/Stop Push button w/Reset.
SSP = Start/Stop Push button w/Reset & Pilot Light.
HOA = Hand-Off-Auto. Selector Switch w/Reset.
HP = Hand-Off-Auto. Selector Switch w/Reset & Pilot Light.
MM = Manual Motor Starter
MP = Manual Motor Starter w/ Pilot Light

NOTES -

1. Furnish standard across-the-line single speed magnetic starter for each three phase motor, and manual single speed motor starter for each single phase motor, unless otherwise noted.
2. For control and interlock of motors, see Temperature Controls.
3. Equipment electrical characteristics shall be coordinated with Electrical Contractor before ordering equipment.
4. Starter(s) or contactor(s) and/or control panel furnished by equipment manufacturer. EC to provide control wiring for field installed control operators and components.
5. Starter(s) or contactor(s) and/or control panel furnished by equipment manufacturer. MC to provide control wiring for unit mounted and field installed components.
6. Duplex device with automatic alternator and capacity doubler.
7. Reference plans and equipment schedules for exact quantities, locations, and power requirements.
8. Provide combination starter/disconnect switch.
9. Electrical unit disconnect furnished pre-wired by equipment manufacturer.
10. Provide two-pole, across-the-line, magnetic motor starter for single phase motor.
11. Variable frequency drive serves as motor starter.
12. Line voltage powered timeclock to serve as motor control device.
13. Provide fan control through lighting room controller interlocked with occupancy sensor.
14. See control diagrams and specifications for more information.
15. Provide wall box mounted spring wound timer switch for manual control.
16. Provide cord and plug for electrical connection and disconnecting requirements.
17. Provide relays to interlock with dishwasher.
18. Reference Kitchen Consultant drawings for equipment quantities, locations, and power requirements.



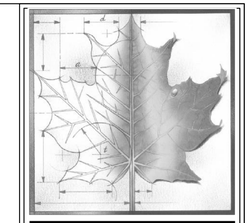
SITE PLAN - MEP
1/16" = 1'-0"



NOTES:
1. Utilize wet location rated connectors for all wire terminations inside of the pole.
2. Before connecting ungrounded conductors to the circuit breaker, test the continuity of the grounding conductor from the pole back to the panel.

A POLE BASE DETAIL
NO SCALE

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



BBN

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

REVISIONS:
1
2
3
4
5
6

Project Number: **16036**

Date: **7/7/17**

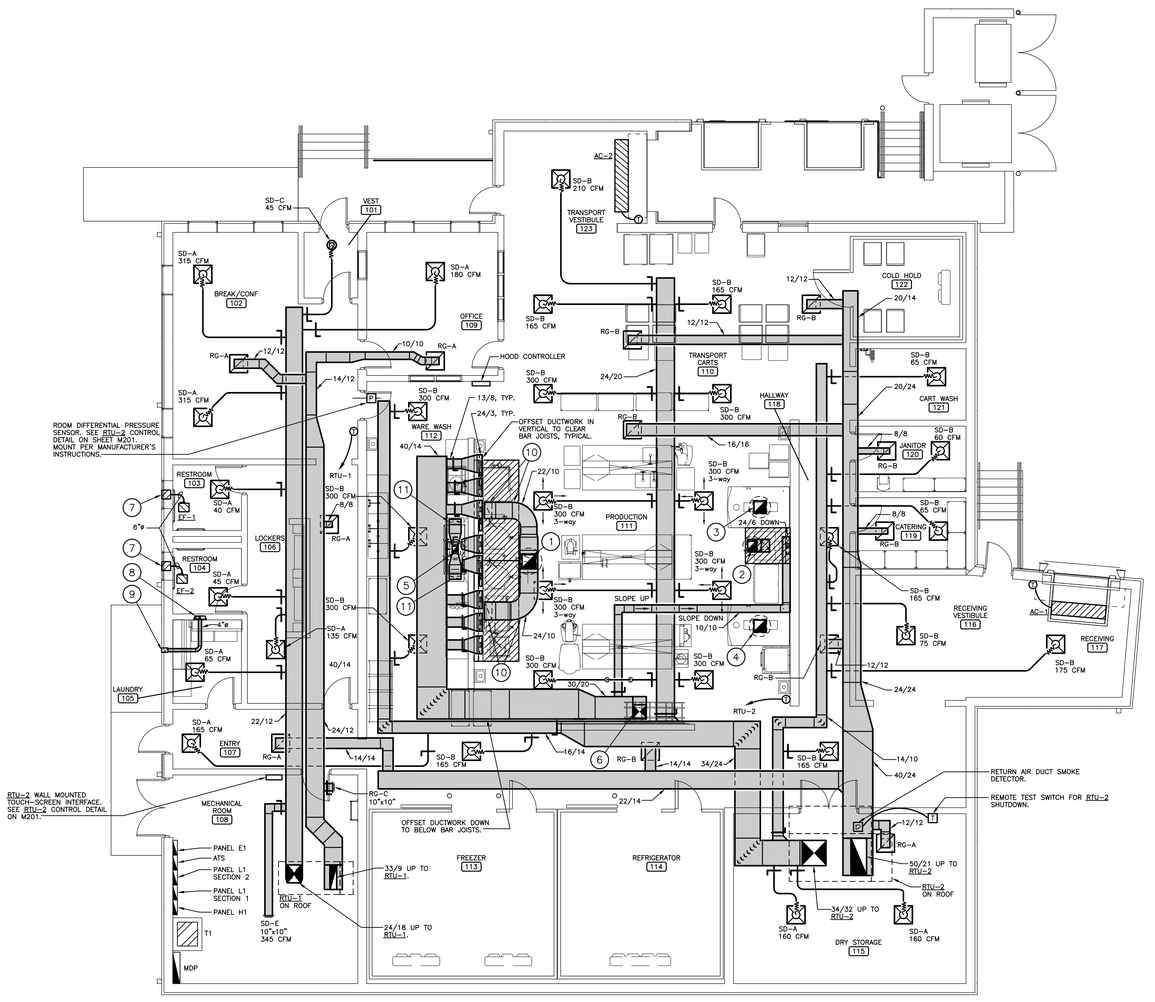
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 Columbian Rd.
Wamego, KS

Sheet Title:
MEP SITE PLAN

Sheet: **ME101**

Of: **8**



NORTH

FLOOR PLAN - MECHANICAL

1/8" = 1'-0"

NOTES BY SYMBOLS:

1. 24/20 divided flow duct up from (2) 24/10 radius elbow ducts. Transition to 18/18 duct up to KEF-1, see ME101 for roof plan.
2. 12/12 up to KEF-2, see ME101 for roof plan. 12/12 connection to hood.
3. 16/16 up to KEF-3, see ME101 for roof plan. 8"ø connection equipment.
4. 16/16 up to KEF-4, see ME101 for roof plan. 8"ø connection equipment.
5. 8/8 up to KEF-5 and transition to connect to fan inlet, see ME101 for roof plan.
6. 18/18 up to MAU, see ME101 for roof plan.
7. 12"x12" exhaust air louver equivalent to Greenheck ESD-435 stationary louver with drainable blades, heavy gauge extruded aluminum blades at 37.5 degree angle on 1-1/4" centers, birdscreen and finish to be selected by architect. Mount bottom of louver at 10'-4" AFF and center above window.
8. Recessed dryer vent hose box equivalent to Dryerbox-480, installed for upward venting. Mount low in wall, near floor.
9. Aluminum dryer exhaust wall cap equivalent to Greenheck model WC-4 with backdraft damper, finish to be selected by Architect.
10. Provide rectangular radius elbow duct. Grease duct to slope to hood.
11. Route 16/4 exhaust duct up to structure and route horizontal ductwork through joists to 8/8 duct up. Coordinate routing with make-up air ductwork.

Job No. 15011-1

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

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

REVISIONS:

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

Project Number:	16036
Date:	7/7/17
Project Name:	USD 320 WAMEGO-DISTRICT KITCHEN
Project Address:	4290 Columbian Rd. Wamego, KS
Sheet Title:	MECHANICAL PLAN
Sheet:	M101
Of:	8

KITCHEN HOOD SCHEDULE

DESIGNATION	KH-1	KH-2	KH-3
TYPE	Type 1	Type 1	Type 2
SIZE	135"L x 54"W x 24"H	135"L x 54"W x 24"H	48"L x 54"W x 24"H
EXHAUST CFM	2,400	2,820	700
EXHAUST CONNECTION	10"x23"	10"x27"	11"x17"
SUPPLY CFM	1,925	2,250	560
SUPPLY CONNECTION	(4) 4"x24"	(4) 4"x24"	4"x24"
FILTER TYPE	Baffle Stainless Steel	Baffle Stainless Steel	N/A
FILTER SIZE	16"x20", 20"x20"	16"x20", 20"x20"	N/A
NUMBER OF FILTERS	6, 2	6, 2	N/A
BASED ON: (Accurex)	XBEW-135-S	XBEW-135-S	XD1-48-S
NOTES:	1,2,3,4	1,2,3,4	3,4

NOTES:
1. Provide KH-1 and KH-2 with four and KH-3 with two interior incandescent light fixtures.
2. Provide hood with fire protection system in accordance with NFPA 17A and 96. Fire protection system shall include (2) sets of contacts to signal fire alarm system and operate shunt trip circuit upon fire protection activation.
3. Provide with remote mounted hood control panel equivalent to Accurex model XFCC.
4. See Specifications for additional requirements.

KITCHEN EXHAUST FAN SCHEDULE

DESIGNATION	KEF-1	KEF-2	KEF-3&4	KEF-5
SERVES	KH-1, KH-2	KH-3	Single Rack Oven	Warewasher
TYPE	Centrifugal Roof Upblast	Centrifugal Roof Upblast	Centrifugal Roof Upblast	Centrifugal Roof Upblast
EXHAUST CFM	5,220	700	690	600
EXT. S.P. ("WG)	1	0.5	0.6	1.5
TYPE DRIVE	Belt	Direct	Belt	Belt
DESIGN HP	3	0.25	0.25	0.5
FAN RPM	1,202	1,375	1,206	2,308
VOLTAGE/PHASE	208/3	120/1	120/1	120/1
BASED ON:	Accurex XRUB-200-30	Accurex XRUD-099-VG	Greenheck CUBE-141HP	Greenheck CUBE-101HP
APPROXIMATE WEIGHT INCLUDING CURB	204	70	70	70

Provide each unit with the following accessories:
1. Provide vented roof curb to provide minimum 40" fan discharge height above roof per NFPA 96.
2. Provide NEMA 3R disconnect.
3. Exhaust fans shall be U.L. 762 listed.
4. Provide hinged base, curb seal, grease trap, and heat baffle.

MAKE-UP AIR UNIT SCHEDULE

DESIGNATION	KMAU-1
CONFIGURATION	HORIZONTAL
DISCHARGE	DOWNFLOW
CFM	4,735
EXT. S.P.("WG)	0.65
SUPPLY AIR FAN HP	5
HEATING SECTION TYPE	DIRECT FIRED
HEATING FUEL	NATURAL GAS
MAX. HEATING INPUT (MBH)	389.1
TEMPERATURE RISE (F)	70
TURNDOWN RATIO	10:1
FILTERS	1" ALUMINUM MESH
VOLTAGE/PHASE	208/3
BASED ON: (GREENHECK)	XDG-115-H20
APPROXIMATE WEIGHT INCLUDING CURB	853

Provide each unit with the following accessories:
1. Insulated roof curb compatible with roof type and slope.
2. Unit mounted power disconnect and required motor starters, contactors, etc., for complete operation

NOTE:
Coordinate installation of this unit so that the outside air intake is a minimum 10'-0" from any building exhaust fan, flue, or plumbing vent.

AIR DEVICE SCHEDULE

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

SD-A — EH Price SMD/3P/4A steel 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.

SD-B — EH Price AMD/3PA/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.

SD-C — EH Price RCDE steel louvered round diffuser with a deep ceiling plate smudge cone, neck size shall be as indicated on drawings or selected for a maximum of 0.08 in wg air pressure drop at design CFM.

SD-D — EH Price RCDE steel louvered round diffuser with a deep ceiling plate smudge cone, neck size shall be as indicated on drawings or selected for a maximum of 0.08 in wg air pressure drop at design CFM. Provide diffuser with volume damper.

SD-E — EH Price 520 steel double deflection sidewall grille with 0 degree horizontal front blades, 1-1/4" screwed flanged frame, gasketed border. Size as indicated on drawings.

RG-A — EH Price SMD/3P steel louvered flush face return grille with 12" square neck, 24" square face, to lay into T-bar ceiling. Neck size same as branch duct size unless noted otherwise.

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 same as branch duct size unless noted otherwise.

RG-C — EH Price 530D/L steel louvered return air grille with horizontal blades, 1-1/4" screwed border and gasketed frame, and opposed blade damper. Size as indicated on drawings.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2
DUTY	Exhaust	Exhaust
AREA SERVED	Restroom 103	Restroom 104
TYPE	Ceiling Cabinet	Ceiling Cabinet
CFM	74	74
EXT. S.P.("WG)	0.2	0.2
TYPE DRIVE	Direct	Direct
DESIGN HP OR (WATTS)	(20)	(20)
MOTOR RPM	700	700
MAX. SONES	1.2	1.2
ACCESSORIES	1,2,3	1,2,3
VOLTAGE/PHASE	120/1	120/1
BASED ON: (Greenheck)	SP-B90	SP-B90

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

AIR CURTAIN SCHEDULE

DESIGNATION	AC-1	AC-2
SERVES	Incoming Dock Door	Outgoing Dock Door
ARRANGEMENT	Above Door Down-flow	Above Door Down-flow
NOZZLE WIDTH (in.)	72	96
DRIVE	Direct	Direct
TOTAL CFM	5,083	5,081
AVG. FPM at NOZZLE	3,696	2,773
OUTLET VELOCITY UNIFORMITY	95%	92%
FILTER TYPE	1/2" Cleanable	1/2" Cleanable
HEATING TYPE	Electric	Electric
HEATER KW	20	20
NUMBER OF MOTORS	2	2
MOTOR HP	3/4	3/4
VOLTAGE/PHASE	480/3	480/3
FULL LOAD AMPS	28.1	28.1
MOCP (AMPS)	40	40
WEIGHT (LBS.)	169	203
BASED ON (Powered Aire Inc.)	ETD 2-72	ETD 2-96

EQUIPMENT NOTES:
1. Provide mounting hardware to suspend from structure and install per manufacturer's recommendations.
2. Provide unit with remote switch, thermostat, time delay relay and magnetic door switch for activation.

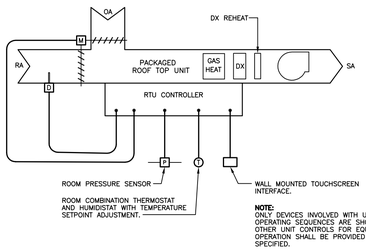
ROOF TOP UNIT SCHEDULE

ROOF TOP UNIT	RTU-1	RTU-2
TYPE	HEATING/COOLING	HEATING/COOLING
SERVES	OFFICES	PRODUCTION AREA
CONFIGURATION	VERTICAL DISCHARGE	VERTICAL DISCHARGE
CFM	1,485	5,250
EXT. S.P.("WG)	0.75	0.625
MAXIMUM O.A. CFM	300	3,165
MINIMUM O.A. CFM	300	0
HEATING FUEL	NATURAL GAS	NATURAL GAS
MAXIMUM HEATING INPUT (MBH)	100	540
MINIMUM HEATING OUTPUT (MBH)	81	432
HEATING STAGES	2	MODULATING
REFRIGERANT	R-410A	R-410A
EVAP. E.A.T. DB/WB (F)	79.0/65.0	87.0/70.0
CONDENSER E.A.T. DB(F)	105	105
NET SENSIBLE COOLING CAPACITY (MBH)	37.9	182.3
NET TOTAL COOLING CAPACITY (MBH)	50.9	270.4
SUPPLY AIR FAN RPM (or speed)	1343	1052
SUPPLY FAN HP	2	3
SUPPLY FAN DRIVE TYPE	DIRECT	DIRECT
CONDENSER FAN HP	1/3	1/4
NO. COMPRESSORS	1	2
COMPRESSOR FLA (EACH)	8.1	18.6
TOTAL COOLING F.L.A.	13	49
MINIMUM CIRCUIT AMPS	15	54
MAXIMUM HACR CIRCUIT BRKR. AMPS	20	70
FILTERS	2" DISPOSABLE	2" DISPOSABLE
VOLTAGE/PHASE	460/3	460/3
MINIMUM EER (SEER)	11.6	12.4
APPROXIMATE WEIGHT INCLUDING CURB, & ACCESSORIES (LBS)	1,700	3,200
BASED ON: (AAON)	RQ-050-3-V-FA09-232	RN-025-3-0-EA09-3C9

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 with modulating outside and return air dampers and room pressure sensor. See Sequence of Operation on this sheet for additional information.
3. Provide each RTU with factory installed and wired NEMA 3R disconnect switch.
4. Provide each RTU with factory installed and field wired weatherproof GFI NEMA 5-15 receptacle.
5. Provide RTU-1 with 7-day programmable combination thermostat and humidistat.
6. Provide RTU-2 with microprocessor based, packaged controls and wall mounted touchscreen interface.
7. Provide return air duct smoke detector and remote test station 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 each RTU with 14" high insulated roof curb compatible with roof slope and construction.
9. Provide each RTU with factory provided and field installed hail guards.
10. Provide RTU-2 with stainless steel heat exchanger.
11. Provide each RTU modulating hot gas reheat.

CONTROLS SYMBOLS LEGEND

M	Electric actuator
T	Room temperature/humidity sensor
D	Duct smoke sensor
P	Pressure sensor
	Abbreviations
SA	Supply air
RA	Return air
OA	Outside air



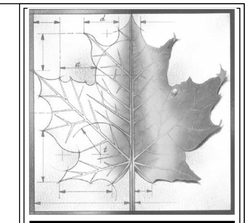
CONTROL SEQUENCE

Unit Packaged Controls:
1. Cycle from occupied to unoccupied operation based on time of day. Schedules shall be adjustable through the touchscreen interface.
2. In occupied operation start the fan.
3. In unoccupied operation cycle the fan.
4. Setpoints: All setpoints shall be adjustable through the unit packaged controls.
   a. Heating – Occupied = 70 degrees F, Unoccupied = 60 degrees F
   b. Cooling – Occupied = 75 degrees F, Unoccupied = 80 degrees F
   c. Dehumidification – 50% RH
5. Heating: Sequenced by RTU controller to maintain space temperature setpoint.
6. Cooling: Sequenced by RTU controller to maintain space temperature setpoint.
7. Dehumidification: Sequenced by RTU controller to maintain space temperature and humidity setpoint.
8. Room pressurization:
   a. In occupied mode the outside air damper shall be at the minimum occupied position, 500 CFM. The outside and return air dampers shall modulate to maintain the Production Area pressure at an adjustable +0.15 in w.c. to the Breakroom in response to operation of the kitchen equipment exhaust fans.
   b. In unoccupied mode the outside air damper shall be closed.
9. All system operating setpoints and control parameters shall be accessible through a wall mounted touch screen interface. All internal alarms shall be reported to the touch screen interface. See specifications for additional information.

A RTU-2 CONTROL DETAIL
NO SCALE

Job No. 15011-1

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



BBN

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

REVISIONS:
1
2
3
4
5
6

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

Project Number: 16036

Date: 7/7/17

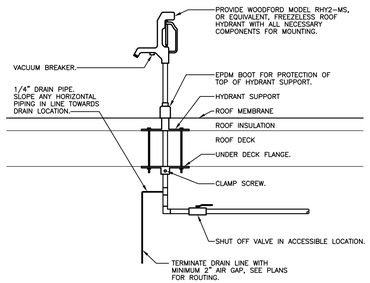
Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
**4290 Columbian Rd.
Wamego, KS**

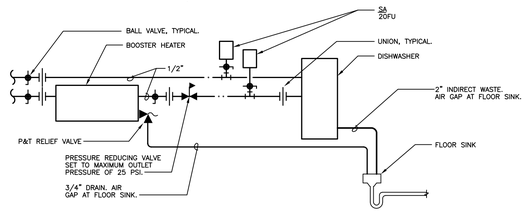
Sheet Title:
MECHANICAL SCHEDULES

Sheet: **M201**

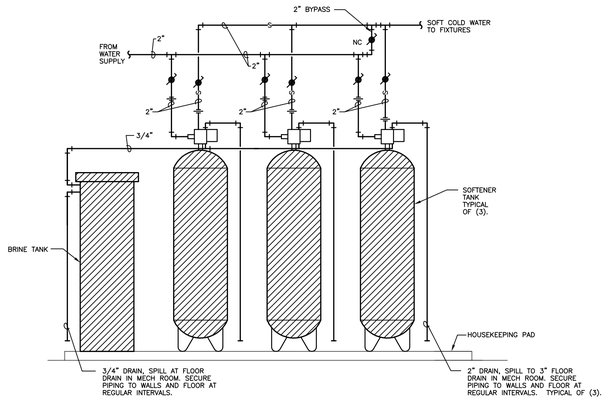
Of: 8



B ROOF HYDRANT DETAIL
NOT TO SCALE

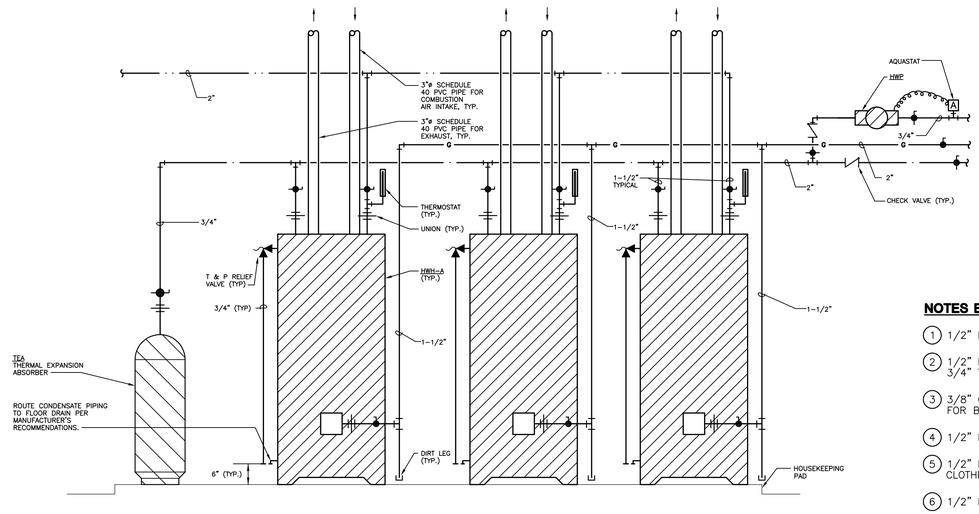


A DISHWASHER CONNECTION DETAIL
NOT TO SCALE

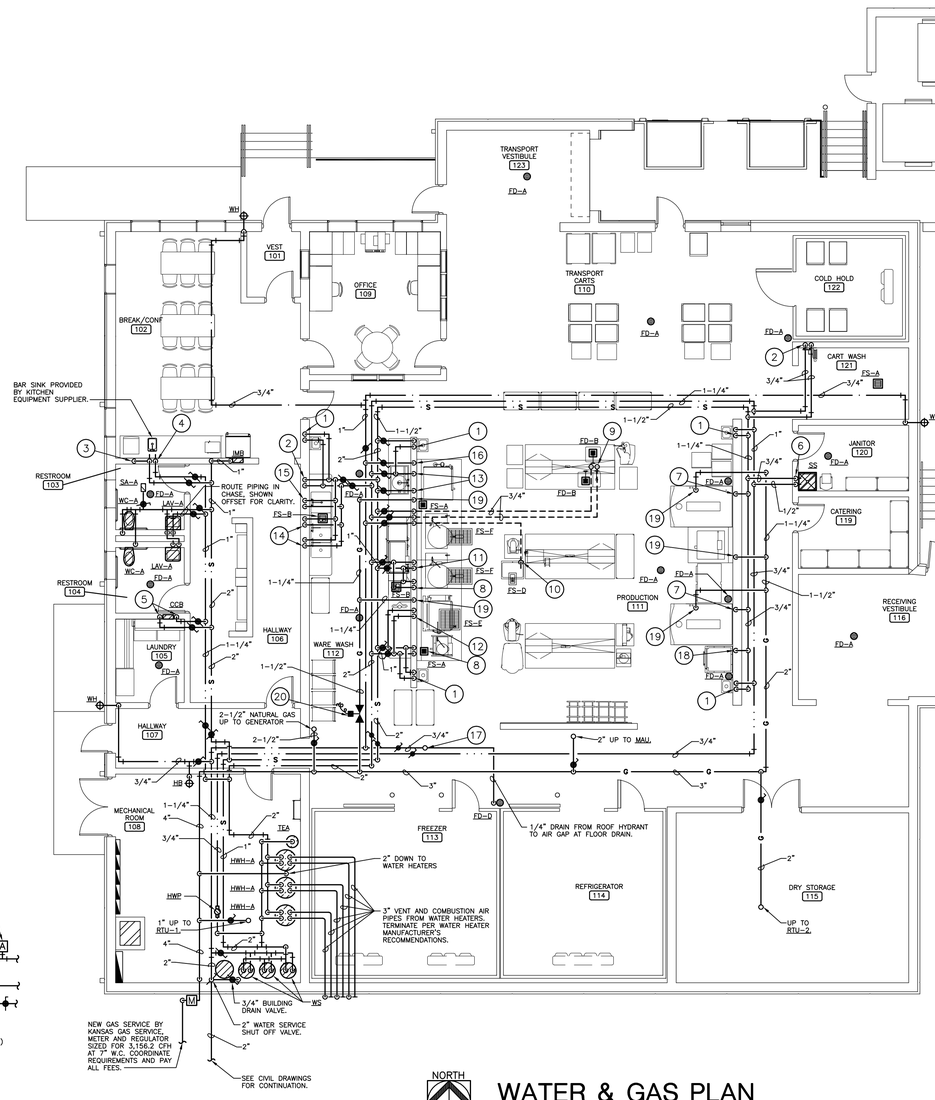


NOTE: Coordinate piping requirements with water softener manufacturer.

C WATER SOFTENER DETAIL
NOT TO SCALE



D WATER HEATER DETAIL
NOT TO SCALE



NORTH

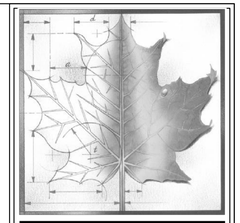
WATER & GAS PLAN
1/8" = 1'-0"

NOTES BY SYMBOL

1. 1/2" HW AND 1/2" CW DOWN TO HAND SINK.
2. 1/2" HW AND 1/2" CW TO HOSE REEL. REDUCE FROM 3/4" TO 1/2" AT CONNECTION.
3. 3/8" CW TO ICE MAKER. COORDINATE REQUIREMENTS FOR BACKFLOW PREVENTION WITH ICE MAKER SUPPLIER.
4. 1/2" HW AND 1/2" CW DOWN TO BAR SINK.
5. 1/2" HW AND 1/2" CW DOWN TO CCB FOR CLOTHES WASHER.
6. 1/2" HW AND 1/2" CW DOWN TO SERVICE SINK.
7. 1/2" CW DOWN TO OVEN.
8. 1/2" HW AND 1/2" CW DOWN TO KETTLE.
9. 3/4" HW AND 3/4" CW UP THRU FLOOR, WITH 1/2" HW AND 1/2" CW TO EACH FAUCET.
10. 3/8" NON-SOFTENED CW UP THRU FLOOR TO HW DISPENSER.
11. 1/2" HW AND 1/2" CW DOWN TO WAREWASHER.
12. 1/2" HW AND 1/2" CW DOWN TO BRAISING PAN.
13. 3/4" HW AND 3/4" CW DOWN TO FOOD WASTE COLLECTOR. MAKE CONNECTIONS AS INDICATED ON FOOD SERVICE DRAWINGS.
14. 3/4" HW AND 3/4" CW DOWN TO BACKSPLASH MOUNTED SINK FAUCET.
15. 1/2" HW AND 1/2" CW DOWN TO BACK SPLASH MOUNTED PRE-RINSE FAUCET.
16. 3/4" NON-SOFTENED CW DOWN TO CONNECTIONS AT COMBI-STEAMER. MAKE CONNECTIONS AS INDICATED ON FOOD SERVICE DRAWINGS.
17. 3/4" COLD WATER PIPE UP THROUGH ROOF TO RH. SEE DETAIL B/P101.
18. 1/2" COLD SOFT WATER DOWN TO PROOF BOX.
19. 1-1/4" NATURAL GAS DOWN TO EQUIPMENT. PROVIDE GAS COCK, UNION, AND 6" DEEP DIRTLEG.
20. PROVIDE GAS SOLENOID SHUT OFF VALVE WITH MANUAL RESET.

Job No. 15011-1

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



BBN

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

REVISIONS:
1
2
3
4
5
6

THOMAS C. ORAZEM
LICENSED
11371
10/07/2017
KANSAS
PROFESSIONAL ENGINEER

Project Number: **16036**

Date: **7/7/17**

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

Project Address:
4290 Columbian Rd.
Wamego, KS

Sheet Title:
PLUMBING WATER & GAS PLAN

Sheet: **P101**

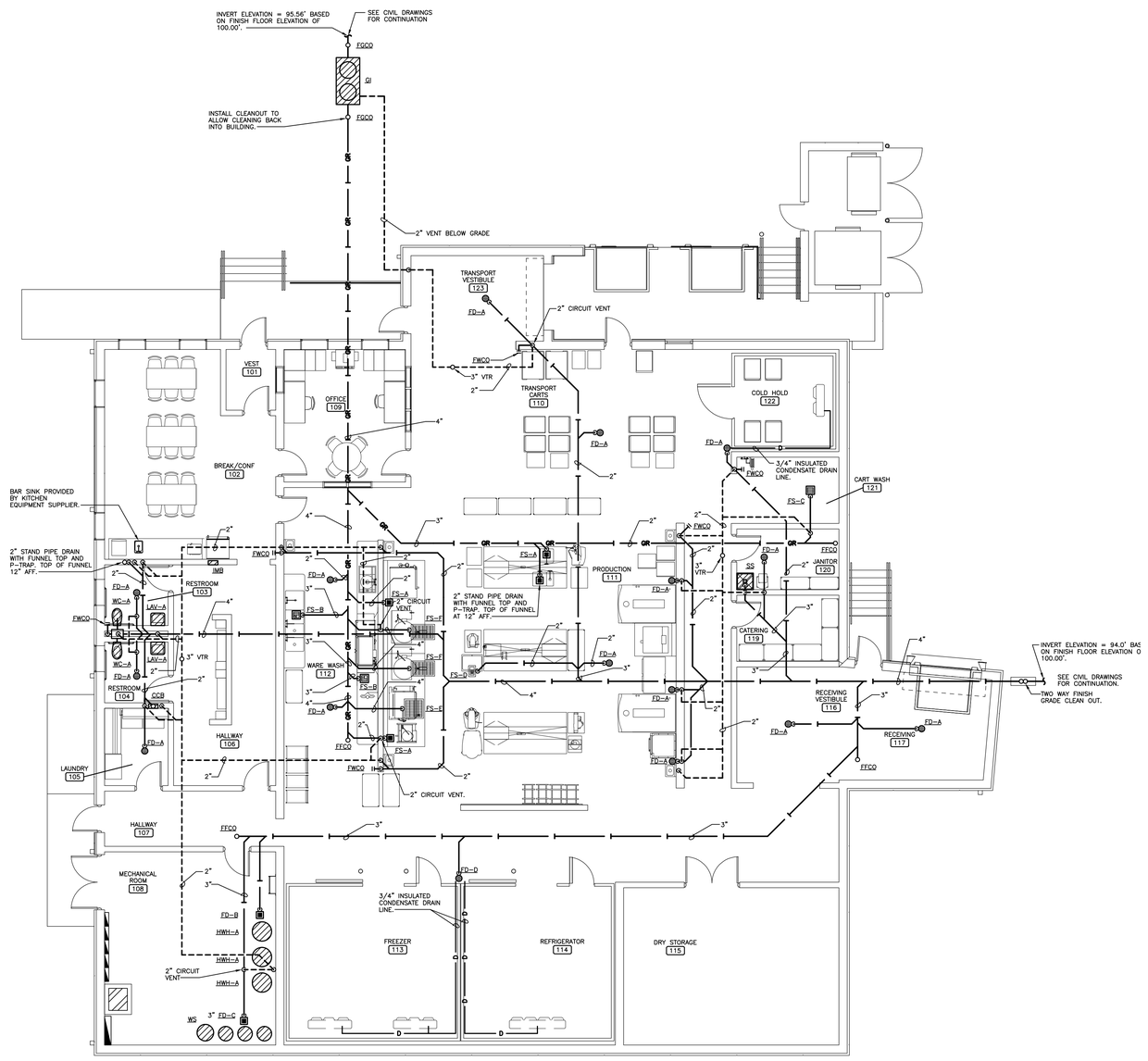
Of: **8**

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 (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.
LAV–A (ADA)	Zurn Z5344 20" x 18" vitreous china front overflow lavatory for wall hanger. Trim with Zurn Z81104–3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexed hot or cold 4" metal wristblade 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 Leonard 170A–LF thermostatic water mixing valve with copper encapsulated thermostat with stainless steel thermoplastic shuttle, and locked temperature adjustment cap. 90° F – 140° F outlet temperature range. 1.25 gpm flow rate at 10 psi pressure drop, 0.25 gpm minimum flow rate, ASSE 1070 certified, integral check valve on inlet.
SS	Fiat MSB2424 24" x 24" x 10" 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.
GI	Schier GB–250 grease interceptor, rotationally molded polyethylene separator, 100 GPM intermittent flow rate, 4" tapped inlet and outlet, 2" tapped internal vent connection, 1,076 lbs of grease capacity, 275 gallons of liquid capacity, integral flow control device on inlet with inlet diffuser, outlet diffuser, composite cover with bolted connection and gas and water tight gasket. Field adjustable adapter riser cover and riser rated for 16,000 lb load rating.
CCB	Guy Gray T200 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. White powder coated 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	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.
RH	Woodford model RHY2–MS freezeless roof hydrant, painted cast iron head assembly, integral cast brass backflow preventer, galvanized pipe casing, one piece plunger, 1/8" drain hole. Provide with cast iron hydrant support, deck flange, well seal, and EPDM boot cover. Hydrant shall be serviceable through the top of the unit without removing the hydrant.
HB	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	2" 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	3" 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–D	Floor drain for finished areas – Wade 1100–1 floor drain with clamping collar, adjustable, vandal proof, 6" satin nickel bronze top, 6" funnel. Provide with ProSet Systems trap guard T25630–F.
FS–A	2" Floor sink – Wade 9110 8" square, 6" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630–F.
FS–B	3" Floor sink – Wade 9140 12" square, 8" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630–F.
FS–C	2" Floor sink – Wade 9140 12" square, 8" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630–F.
FS–D	2" Floor sink – Jay R Smith 3320 12"x6" rectangular, 7–3/4" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630–F.
FS–E	Floor sink – Advanced Tabco FTG2424 24"x24" square, 4" deep, 14 ga type 304 polished stainless steel body with fully welded joints, bottom pitched to 4" center drain with beehive strainer, subway style grating from 3/16" by 1" solid stainless steel bars. Provide with ProSet Systems trap guard T25630–F.
FS–F	Floor sink – Advanced Tabco FTG1830 18"x30" rectangular, 4" deep, 14 ga type 304 polished stainless steel body with fully welded joints, bottom pitched to 4" center drain with beehive strainer, subway style grating from 3/16" by 1" solid stainless steel bars. Provide with ProSet Systems trap guard T25630–F.
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"x36"x4" 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, 100 gallon storage, 199 MBH natural gas input, 261 gallon per hour recovery at 90 degrees F rise.
HWP	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	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: 1–11 – Designation: SA–5 – Wade Catalog No.: 5 – PDI Rating: A 12–32 – SA–10 – 10 – B 33–60 – SA–20 – 20 – C
TEA	Thermal Expansion Absorber, Amtrol ST–30V–C precharged hydropneumatic steel expansion tank with internal butyl diaphragm. 14.0 gallons total volume, 8.96 gal minimum expansion volume, 150 psig maximum working pressure.
WS	Marlo MGT–210–2 triple fully automatic parallel water softener with three resin tanks and one brine tank, 140,000 grain exchange capacity in each resin tank at a salt dosage of 6 lb/cu.ft., demand regeneration based on meter, each valve/resin tank rated for 60 gpm at a maximum pressure drop of 15 psi. Low voltage transformers to plug into 15 Amp 120 volt receptacle.



NORTH

WASTE & VENT PLAN

1/8" = 1'–0"

PLUMBING FIXTURE MINIMUM ROUGH-IN SIZE SCHEDULE

FIXTURE/DESIGNATION	WASTE	VENT	COLD WTR.	HOT WTR.
FLUSH VALVE WATER CLOSET/WC–A	4"	2"	1"	---
LAVATORY/LAV–A	2"	2"	1/2"	1/2"
BAR SINK/(BY OTHERS)	2"	2"	1/2"	1/2"
SERVICE SINK/SS	3"	2"	1/2"	1/2"
CLOTHESWASHER CONNECTION BOX/CCB	2"	2"	1/2"	1/2"
WALL HYDRANT/WH	---	---	3/4"	---
FLOOR DRAIN/FD–A,B,D	2"	2"	---	---
FLOOR DRAIN/FD–C	3"	2"	---	---
FLOOR SINK/FS–A,C,D	2"	2"	---	---
FLOOR SINK/FS–B	3"	2"	---	---
FLOOR SINK/FS–E,F	4"	2"	---	---
ICE MAKER BOX/IMB	---	---	1/2"	---
WALL HYDRANT/WH	---	---	3/4"	---
HOSE BIBB/HB	---	---	3/4"	---
ROOF HYDRANT/RH	---	---	3/4"	---

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

REVISIONS:

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

THOMAS C. ORAZEM LICENSED 11371 10/07/2017 KANSAS PROFESSIONAL ENGINEER

Project Number: 16036

Date: 7/7/17

Project Name: USD 320 WAMEGO-DISTRICT KITCHEN

Project Address: 4290 Columbian Rd. Wamego, KS

Sheet Title: PLUMBING WASTE & VENT PLAN

Sheet: P201

Of: 8

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

LIGHTING FIXTURE SCHEDULE

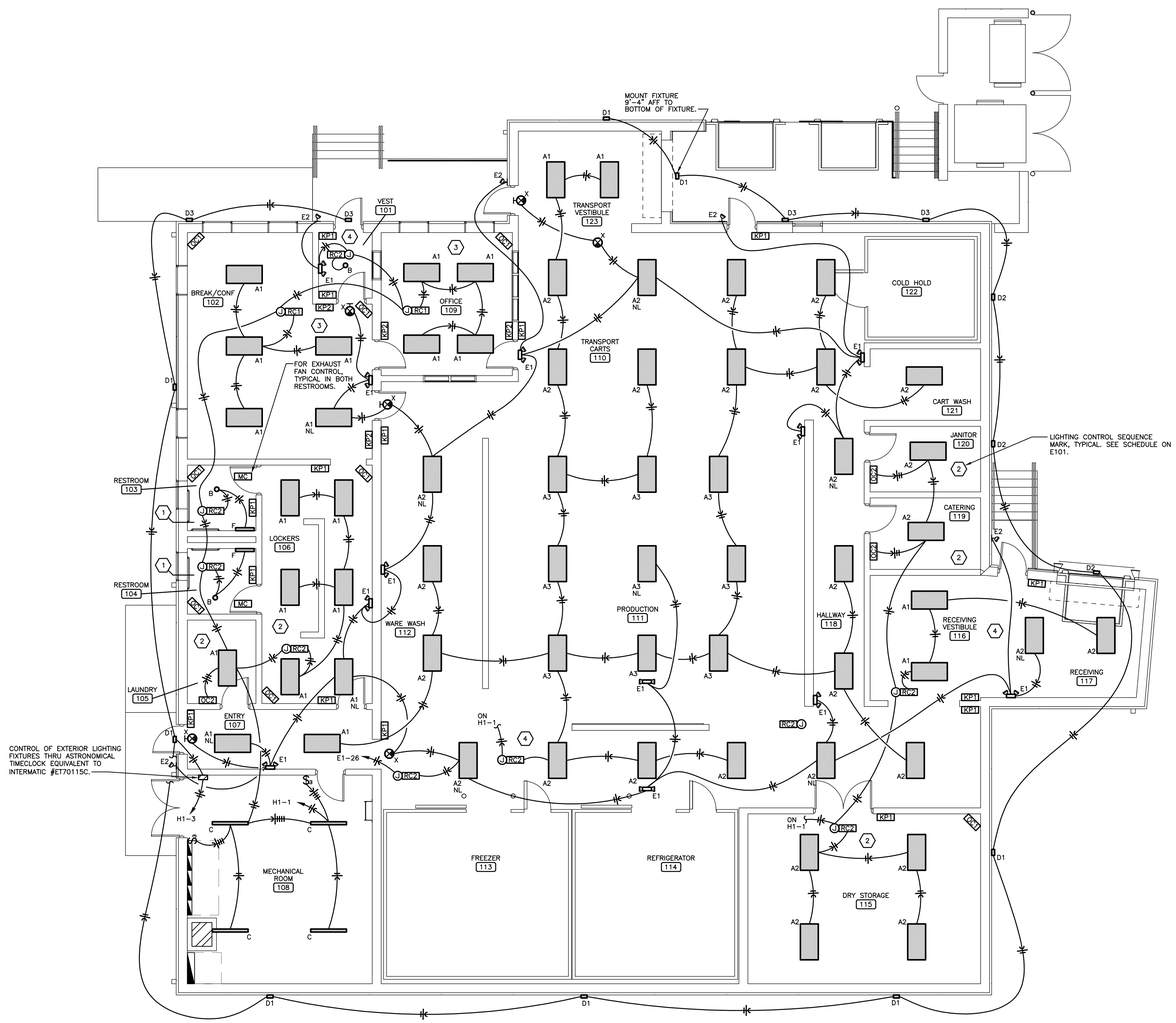
MARK	SIZE	MANUF.	DESCRIPTION	LAMPS
A1	2x4	Williams	Series DIGS LED lay-in troffer with 20-gauge die-formed cold rolled steel housing, diffuse ribbed acrylic shielding, highly reflective non-glare matte white polyester powder coat bonded finish, and room-side access to electrical components without removing fixture from ceiling grid. Provide with 4,000K lumen package producing 5,184 delivered lumens, L70 rated for greater than 50,000 hours, efficacy greater than 100 lm/W.	LEDs 51W
A2	2x4	Williams	Series DIGS LED lay-in troffer with 20-gauge die-formed cold rolled steel housing, diffuse ribbed acrylic shielding, highly reflective non-glare matte white polyester powder coat bonded finish, and room-side access to electrical components without removing fixture from ceiling grid. Provide with 4,000K lumen package producing 6,608 delivered lumens, L70 rated for greater than 50,000 hours, efficacy greater than 100 lm/W.	LEDs 56W
A3	2x4	Williams	Series DIGS LED lay-in troffer with 20-gauge die-formed cold rolled steel housing, diffuse ribbed acrylic shielding, highly reflective non-glare matte white polyester powder coat bonded finish, and room-side access to electrical components without removing fixture from ceiling grid. Provide with 4,000K lumen package producing 9,021 delivered lumens, L70 rated for greater than 50,000 hours, efficacy greater than 100 lm/W.	LEDs 73W
B	6" Dia. x 5" D	Williams	Series PD6 shallow lens LED downlight with 6-inch aperture, and one-piece parabolic aluminum reflector. Provide fixture with 4,000K lumen package producing 1,200 nominal lumens at 23 watts, and efficacy of 79 lm/W or greater.	LEDs 23W
C	2-3/4" W x 3-1/4" H x 4' 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. Provide fixture with 4,000K lumen package producing 3,800 nominal lumens at 41 watts, an electronic driver prewired for non-dimming applications, and L70 rated for greater than 50,000 hours.	LEDs 41W
D1	5-3/4" W x 3-5/8" D x 6-3/4" H	Lumark	Series XTOR surface mounted LED fixture with die-cast aluminum corrosion resistant housing, one-piece silicon gasket, and impact-resistant tempered glass lens. Provide fixture with 4,000K lumen package producing 1,396 lumens at 12W, and rated for greater than 72,000 hours at 90% lumen maintenance. Finish to be selected by Architect. Mount fixture at 10'-0" AFF to bottom of fixture unless noted otherwise.	LEDs 12W
D2	8-3/4" W x 6-1/4" D x 11" H	Lumark	Series XTOR MAXX surface mounted LED fixture with die-cast aluminum corrosion resistant housing, one-piece silicon gasket, and impact-resistant tempered glass lens. Provide fixture with 4,000K lumen package producing 6,038 lumens at 58W, and rated for greater than 72,000 hours at 90% lumen maintenance. Finish to be selected by Architect. Mount fixture at 10'-0" AFF to bottom of fixture unless noted otherwise.	LEDs 58W
D3	8-3/4" W x 6-1/4" D x 11" H	Lumark	Series XTOR MAXX surface mounted LED fixture with die-cast aluminum corrosion resistant housing, one-piece silicon gasket, and impact-resistant tempered glass lens. Provide fixture with 4,000K lumen package producing 6,133 lumens at 58W, and rated for greater than 72,000 hours at 90% lumen maintenance. Provide fixture with refractive lens. Finish to be selected by Architect. Mount fixture at 9'-4" AFF to bottom of fixture unless noted otherwise.	LEDs 58W
E1	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 or ceiling mounting bracket as indicated on plans. Provide circuitry for and connect to unswitched power from lighting circuit serving the same area as emergency light. Wall mounted fixture at 7'-6" above finish floor unless noted otherwise.	2-12W MR-16
E2	2.25" Dia. x 3-11/16" L x 5-7/8" D	Mule	Series H20 remote emergency light, die-cast aluminum head and glass lens, 6 volt DC, equipped with one adjustable head, weatherproof mounting bracket, and U.L. listed for damp locations.	LEDs
F	8-3/8" H x 4" D x 25" L	Shaper	Series 605 luminous wall mounted vanity LED with plated solid aluminum body, extruded white acrylic panel, and standard natural aluminum finish. Provide fixture with 4,000K lumen package producing 2,000 nominal lumens at 20 watts.	LEDs 20W
G	13-15/16" x 26-13/16" x 2-3/4"	Lumark	Series PRV Prevail area site fixture with heavy-duty, single-piece, die-cast aluminum housing, polyester powder coated finish, low profile design, U.L. listed for wet location, -40 degree F minimum operating temperature, thermally isolated driver, and hand-hole access at base of pole. Minimum 70 CRI, and 80% rated lumen output for 100,000 hours. Provide fixture with 4,000K lumen package producing 10,261 lumens at 87 watts, Type IV throw. Provide type PS5-07-30WT square straight steel pole, 20' high 5" nominal shaft dimension, vibration dampener, 0.188" (7 gauge) wall thickness, with 2-3/8" tenon mounting and (1) fixture per pole. Finish for fixture and pole as selected by Architect. Pole and fixture must meet windspeed test rating of 90 mph.	LEDs 87W
X	12" x 7-1/2"	Mule	Series MX emergency powered exit light with red letters, textured white thermoplastic 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 277 volt AC operation unless noted otherwise.
2. Coordinate mounting heights of all wall mounted fixtures with Architect prior to roughing in.

LIGHTING CONTROL DEVICE SCHEDULE

MARK	MANUF.	DESCRIPTION	MOUNTING
OCM	Watt Stopper	LMDX-100 dual technology sensor with passive infrared and ultrasonic sensors, 40 kHz frequency ultrasonic transmission, adjustable time delay, automatic passive infrared adjustment, manual ultrasonic adjustment, 1000 sf of desktop motion coverage, 2000 sf of walking motion coverage, swivel mounting bracket. Complete installation for integration to lighting management system.	Ceiling/Wall
OCW	Watt Stopper	DSW-100 dual technology wall switch sensor with passive infrared and ultrasonic sensors, adjustable time delay, sensitivity adjustment with high/low settings for passive infrared and full variable control for ultrasonic coverage, 35' x 30' of PIR and 20' x 20' of Ultrasonic major motion coverage, and 20' x 15' of PIR and 15' x 15' of Ultrasonic minor motion coverage.	Switch Box
OCW	Watt Stopper	PW-311 Passive Infrared 0-10V Dimming Wall Switch Sensor with adjustable time delay, sensitivity adjustment, 20' x 15' minor motion coverage, 120 volt relay, mountable in standard switch box.	Switch Box
RM1	Watt Stopper	LMRC-211 Series Digital On/Off/0-10 Volt dimming single relay room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling
RM2	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
KP1	Watt Stopper	LMSW-101 Series 1-Button wall switch.	Switch Box
KP2	Watt Stopper	LMSW-102 Series 2-Button wall switch. Provide custom engraving for buttons, approve with Architect and Owner before ordering.	Switch Box
MK	Watt Stopper	LMRL-100 isolated relay interface for integration of lighting management system with exhaust fan operation. Coordinate installation with Mechanical Controls Contractor.	Above Ceiling

NOTES:
1. Install occupancy sensors per manufacturer's recommendations.
2. Provide relays, power supplies, and circuitry for complete operation of sensors.
3. Set time delays - 15 minutes for offices, 20 minutes for classrooms, 20 minutes for commons, and 15 minutes for all other rooms with occupancy sensors.
4. Provide digital wireless configuration tool equivalent to Watt Stopper LMCT-100 for remote system and device modifications. See the specification for additional information.



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

LIGHTING CONTROL SEQUENCE SCHEDULE

Type	
1	Single Zone with Occupancy Sensor and Mechanical Control Device Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door. Exhaust fan in space controlled through mechanical control device in conjunction with lighting.
2	Single Zone with Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door.
3	Single Zone with Dimming Control and Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off/dim from two button pushbutton device located near door. Fixtures will be controlled On/Raise (hold) with button #1 and Off/Lower (hold) with button #2.
4	Single Zone Control Light fixtures in space controlled by manual on/off from pushbutton device located near door.

NOTES:
1. See floor plan for quantity and location of occupancy sensors, room controllers, and keypad devices.

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

REVISIONS:
1
2
3
4
5
6

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

Project Number:	16036
Date:	7/7/17

Project Name:
USD 320 WAMEGO-DISTRICT KITCHEN

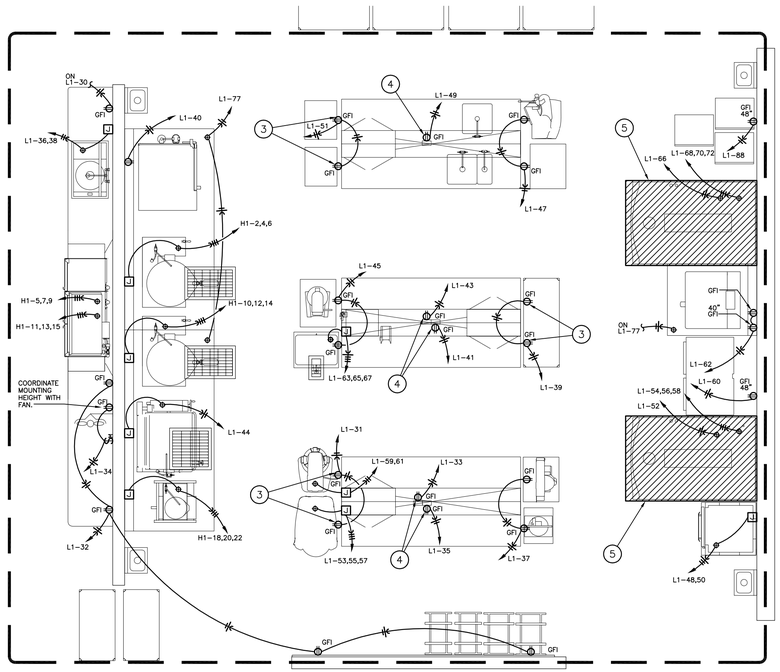
Project Address:
4290 Columbian Rd.
Wamego, KS

Sheet Title:
ELECTRICAL LIGHTING PLAN

Sheet: **E101**
Of: **8**

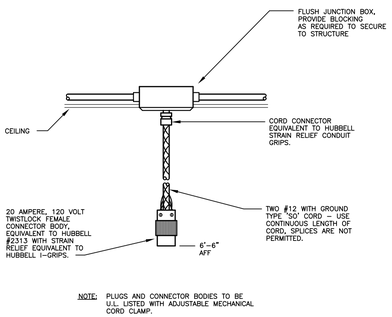
Job No. 15011-1

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



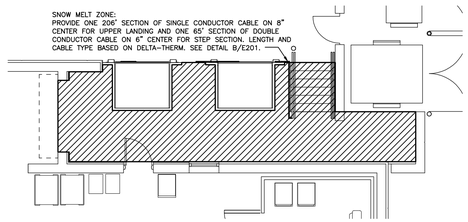
NORTH

PARTIAL POWER PLAN
1/4" = 1'-0"



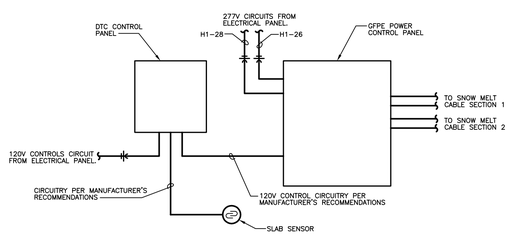
NOTE: PLUGS AND CONNECTOR BODIES TO BE U.L. LISTED WITH ADJUSTABLE MECHANICAL CORD CLAMP.

A DROP CORD DETAIL
NO SCALE

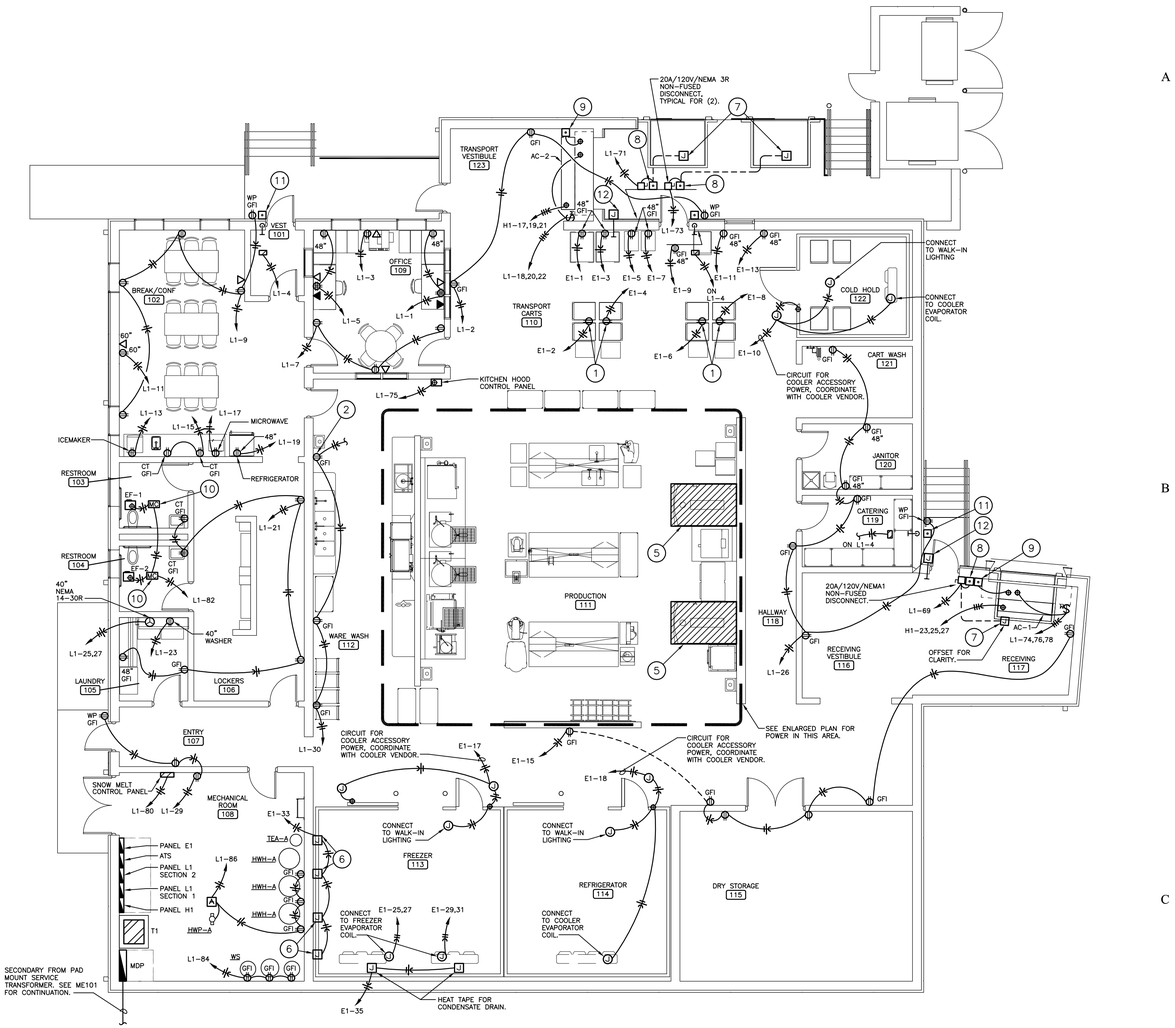


NORTH

PARTIAL POWER PLAN FOR SNOW MELT
1/8" = 1'-0"



B SNOW MELT CONTROLS DETAIL
NO SCALE



NORTH

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

NOTES BY SYMBOLS:

1. Duplex receptacle suspended 4'–0" AFF. On drop cord from junction box at ceiling. See detail A/E201.
2. NEMA 5–15R Receptacle. Provide cord for equipment with NEMA 5–15P plug. Reference kitchen drawings.
3. Duplex receptacle mounted in kitchen equipment junction box beneath work bench, typical for devices shown at each end of work bench. Reference kitchen drawings. Coordinate concealed routing of conductors with kitchen equipment.
4. Duplex receptacle mounted in kitchen equipment junction box under work bench shelf. Reference kitchen drawings. Coordinate concealed routing of conductors with kitchen equipment.
5. Do not route utilities below or in slab in area shown hatched.
6. Provide accessible junction box for freezer subgrade heat tape loops. Reference kitchen drawings.
7. Provide (1) 1/2"ø conduit from the single button control station to the dock's power pack motor junction box. Coordinate final requirements with manufacturer recommendations.
8. Single button control station for dock leveler. Provide 120V/1P/30A/ NEMA 3R fused disconnect switch. Coordinate final requirements with manufacturer recommendations.
9. Overhead door control panel, coordinate with overhead door supplier.
10. Device controlled from mechanical control device interlocked with room lighting controller.
11. Access control, coordinate with access control provider. Provide 2–gang J–box with 3/4" conduit to above accessible ceiling, terminate with smooth bushing.
12. Provide junction box for camera and 3/4" conduit with smooth bushing to accessible location above ceiling. Coordinate with Owner and Architect.

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

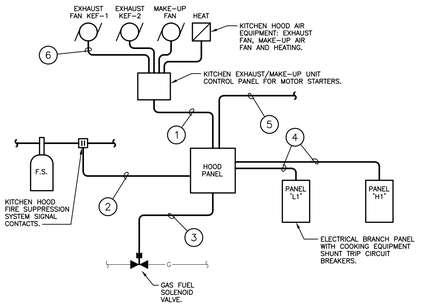
REVISIONS:
1
2
3
4
5
6

THOMAS C. ORAZEM LICENSED Kansas 11371 7/07/2017 PROFESSIONAL ENGINEER

Project Number: 16036
Date: 7/7/17
Project Name: USD 320 WAMEGO-DISTRICT KITCHEN
Project Address: 4290 Columbian Rd. Wamego, KS
Sheet Title: ELECTRICAL POWER PLAN
Sheet: E201
Of: 8

Job No. 15011–1

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

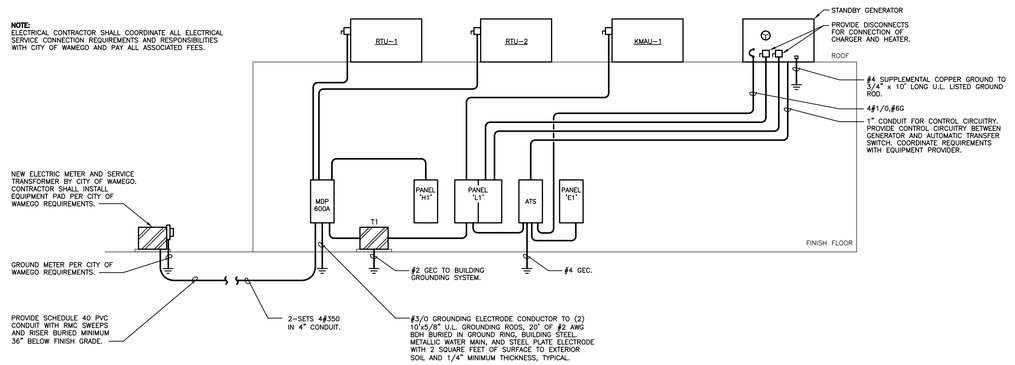


KITCHEN HOOD CONTROL NOTES

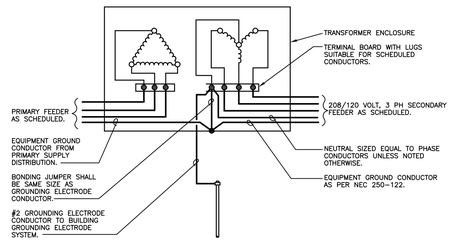
1. Provide control circuitry from Hood Panel to Exhaust Fans and Make–up air unit for interface of hood panel controls to air unit starters and temperature controls. Verify exact requirements with air unit supplier.
2. Provide signal circuitry from hood Fire Suppression system contacts to Hood Panel for signal to shut–down energization of associated components. Provide incidental control relays for contact configuration needed for multiple signals and voltages. Coordinate number of Fire Suppression signal contacts with system provider.
3. Provide control circuitry and interface with suppression system signal to shut fuel gas solenoid valve upon activation of Fire Suppression system. This circuitry is typically 120 VAC. Coordinate exact requirements with Plumbing Contractor.
4. Provide 120 VAC circuitry for control power and shunt trip from Hood Panel to Electrical Branch Panel. The shunt trip circuit breakers are to be operated upon activation of Fire Suppression system.
5. Provide additional circuitry and interface components for incidental equipment and systems associated with hood safety operation.
6. Provide wiring of Exhaust Fan and Make–up air unit components to hood control panel. Coordinate requirements with Mechanical Contractor.

C KITCHEN HOOD CONTROL DETAIL
NO SCALE

NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE CONNECTION REQUIREMENTS AND RESPONSIBILITIES WITH CITY OF WAMEGO AND PAY ALL ASSOCIATED FEES.



A ELECTRICAL RISER DIAGRAM
NO SCALE



B TRANSFORMER WIRING DIAGRAM
NO SCALE

ELECTRICAL EQUIPMENT SCHEDULE

MDP
480 volt Distribution Panelboard, service entrance rated 480/277 volt, 3 phase, 4 wire. 600 ampere Main Circuit Breaker, 32,000 ampere integrated equipment short circuit rating with 72" branch mounting space NEMA 1 enclosure and capacity for 400 ampere/3 pole branches.
Equivalent to Square D HCP.
Physical size: 42" W x 9.5" D x 86" H

Provide branch devices:

Ckt.	C/B	Load	Feeder	Remarks
1.	400/3	Panel H1	4#500,#3G	–
2.	250/3	XFMR T1	3#250,#4G	–
3.	20/3	RTU–1	3#12,#12G	–
4.	70/3	RTU–2	3#4,#8G	–
5.	100/3	Spare	–	–
6.	100/3	Spare	–	–
7.	400/3	Prepared Space	–	–
8.	400/3	Prepared Space	–	–

TRANSFORMERS

Mark	KVA	Mounting	Secondary Conductors	GEC
T1	150	Floor	2–Sets 4#3/0,#3G	#2

Dry type transformer for indoor installation, U.L. listed, compliant with IEEE, NEMA and ANSI standards, three phase, 60 hertz, 480 volt delta primary 208/120 volt wye 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.

AUTOMATIC TRANSFER SWITCH
Equivalent to Cummins open delay transfer, 150A, 3–pole, NEMA 1 service entrance rated automatic transfer switch. Switch shall be equipped with 3–phase sensing, LED indicating lights, microprocessor based standard control. See specifications for additional requirements.
Based on: Cummins OTEC–SE

Provide branch devices:

Mark	Ampacity	Voltage	Poles/Wire	Load Circuitry
ATS	150	208	3/4	4#1/0,#6G

ENGINE-GENERATOR SCHEDULE

DESIGNATION	G–1
ENGINE	
TYPE	4–cycle Spark Ignited
FUEL	Natural Gas
DISPLACEMENT	359.0 cu. in. / 5.9 L
ASPIRATION	Natural
SUPPLY PRESSURE	11 in. w.c.
FUEL CONSUMPTION	806.3 CFH
COOLING	Unit Mounted Radiator
ELECTRICAL SYSTEM	12 VDC
GENERATOR	
KW	50
POWER FACTOR	0.89
POLES	4
VOLTAGE/PHASE/FREQUENCY/WIRE	208/3/60/4
VOLTAGE REGULATION	+/– 1%
TOTAL HARMONIC DISTORTION	<5%
MAIN CIRCUIT BREAKER	150A/3P
STARTING REQUIREMENTS	
STEP 1 LOAD (STARTING KW)	34.2
STEP 1 EQUIPMENT	Miscellaneous Load
STEP 2 LOAD (STARTING KW)	1.89
STEP 2 EQUIPMENT	2 HP Motor
STEP 3 LOAD (STARTING KW)	4.88
STEP 3 EQUIPMENT	5.5 HP Motor
MAX VOLTAGE DIP	20%
MAX FREQUENCY DIP	10%
HOUSING	Weather Protective
PHYSICAL SIZE	40"x98"x58"H
WEIGHT	2,360 lbs.
BASED ON: (Cummins)	C50 N6

See specifications for additional requirements

PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel 'L1' – Section 1
LOCATION: Mechanical 108
VOLTS: 120/208
CONFIGURATION: 3 Phase/4 Wire
MOUNTING: Surface
MIN A.I.C.: 10000
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–Rm 109 E. Desk	2#12,#12G	20/1	2	Rcpt–Rm 110,123 Gen. Use	2#12,#12G	20/1
3	Rcpt–Rm 109 Copier	2#12,#12G	20/1	4	Access Door Power	2#12,#12G	20/1
5	Rcpt–Rm 109 W. Desk	2#12,#12G	20/1	6			20 / 3
7	Rcpt–Rm 109 Gen.Use	2#12,#12G	20/1	8	KEF–1	3#12,#12G	
9	Rcpt–Rm 102 Gen. Use, Exterior	2#12,#12G	20/1	10			
11	Rcpt–Rm 102 W. TV	2#12,#12G	20/1	12	KEF–2	2#12,#12G	15/1
13	Rcpt–Rm 102 Icemaker	2#12,#12G	20/1	14	KEF–3, KEF–4	2#12,#12G	15/1
15	Rcpt–Rm 102 CT Gen. Use	2#12,#12G	20/1	16	KEF–5	2#12,#12G	15/1
17	Rcpt–Rm 102 Microwave	2#12,#12G	20/1	18			15 / 3
19	Rcpt–Rm 102 Refrigerator	2#12,#12G	20/1	20	Overhead Door – Rm 123	3#12,#12G	
21	Rcpt–Rm 103–106 Gen. Use	2#12,#12G	20/1	22			
23	Rcpt–Rm 105 Washing Machine	2#12,#12G	20/1	24	Spare	---	20/1
25	Rcpt–Rm105 Dryer	3#10,#10G	30 / 2	26	Rcpt–Rm 116, 118–121 Gen. Use	2#12,#12G	20/1
27				28	Spare	---	20/1
29	Rcpt–Rm 107–108, Exterior	2#12,#12G	20/1	30	Rcpt–Rm 112 W. Gen. Use	2#12,#12G	20/1
31	Rcpt–Rm 111 S. Table, W. End	2#12,#12G	20/1	32	Rcpt–Rm 111–112 S. Gen Use	2#12,#12G	20/1
33	Rcpt–Rm 111 S. Table, N. Side	2#12,#12G	20/1	34	Rcpt–Rm 112 Wall Fan	2#12,#12G	20/1
35	Rcpt–Rm 111 S. Table, S. Side	2#12,#12G	20/1	36	**Rm 112–Food Waste Collector	2#12,#12G	15 / 2
37	Rcpt–Rm 111 S. Table, E. Side	2#12,#12G	20/1	38			
39	Rcpt–Rm 111 Mid. Table, E. End	2#12,#12G	20/1	40	Rcpt–Rm 111 Combi Oven	2#12,#12G	15/1
41	Rcpt–Rm 111 Mid. Table, S. Side	2#12,#12G	20/1	42	(Shunt Trip)		
43	Rcpt–Rm 111 Mid. Table, N. Side	2#12,#12G	20/1	44	Rm 111–Braising Pan	2#12,#12G	15/1
45	Rcpt–Rm 111 Mid. Table, W. End	2#12,#12G	20/1	46	(Shunt Trip)		
47	Rcpt–Rm 111 N. Table, E. End	2#12,#12G	20/1	48	**Rm 111–Roll–In Proof Box	2#12,#12G	20 / 2
49	Rcpt–Rm 111 N. Table, N. Side	2#12,#12G	20/1	50			
51	Rcpt–Rm 111 N. Table, W. End	2#12,#12G	20/1	52	**Rm 111–S. Roll–in Controls	2#12,#12G	20/1
53			20 / 3	54			15 / 3
55	**Rm 111–60 Qt. Mixer	3#12,#12G		56	**Rm 111–S. Roll–in Oven	3#12,#12G	
57				58			
59	**Rm 111–40 Qt. Mixer	2#12,#12G	20 / 2	60	Rcpt–Rm 111 Reach–in Fridge	2#12,#12G	20/1
61				62	Rcpt–Rm 111 Double–Oven	2#12,#12G	20/1
63			50 / 3	64	Spare	---	20/1
65	**Rm 111–Hot Water Dispenser	3#8,#10G		66	**Rm 111–N. Roll–in Controls	2#12,#12G	20/1
67				68			15 / 3
69	Dock Leveler – Rm 117	2#12,#12G	20/1	70	**Rm 111–N. Roll–in Oven	3#12,#12G	
71	Dock Leveler – Rm 123 W	2#12,#12G	20/1	72			

** Provide lock–out kit for breaker.

PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel 'L1' – Section 2
LOCATION: Mechanical 108
VOLTS: 120/208
CONFIGURATION: 3 Phase/4 Wire
MOUNTING: Surface
MIN A.I.C.: 10000
MCB Amps: MLO
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
73	Dock Leveler – Rm 123 W	2#12,#12G	20/1	74			15 / 3
75	Kitchen Hood Control Panel	2#12,#12G	15/1	76	Overhead Door – Rm 117	3#12,#12G	
77	Kitchen Hood Lights	2#12,#12G	15/1	78			
79	(Shunt Trip)			80	Snow Melt Control Panel	2#12,#12G	20/1
81			35 / 3	82	EF–1 and EF–2	2#12,#12G	20/1
83	KMAU–1	3#10,#10G		84	WS – Water Softener	2#12,#12G	20/1
85				86	HWH–A and HWP–A Controls	2#12,#12G	20/1
87	Generator Charger	2#12,#12G	20/1	88	Rcpt – Rm 111 General Use	2#12,#12G	20/1
89	Generator Heater	2#12,#12G	20/1	90	Spare	---	20/1
91	(This space used for 150A breaker)	---	--	92			150 / 3
93				94	ATS	3#1/0,#6G	
95				96			
97	Spare	---	20/1	98	Spare	---	20/1
99	Spare	---	20/1	100	Spare	---	20/1
101	Spare	---	20/1	102	Spare	---	20/1
103	Spare	---	20/1	104	Spare	---	20/1
105	Spare	---	20/1	106	Spare	---	20/1
107	Spare	---	20/1	108	Spare	---	20/1
109	---	---	--	110	---	---	--
111	---	---	--	112	---	---	--
113	---	---	--	114	---	---	--
115	---	---	--	116	---	---	--
117	---	---	--	118	---	---	--
119	---	---	--	120	---	---	--
121	---	---	--	122	---	---	--
123	---	---	--	124	---	---	--
125	---	---	--	126	---	---	--
127	---	---	--	128	---	---	--
129	---	---	--	130	---	---	--
131	---	---	--	132	---	---	--
133	---	---	--	134	---	---	--
135	---	---	--	136	---	---	--
137	---	---	--	138	---	---	--
139	---	---	--	140	---	---	--
141	---	---	--	142	---	---	--
143	---	---	--	144	---	---	--

PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel 'E1'
LOCATION: Mechanical 108
VOLTS: 120/208
CONFIGURATION: 3 Phase/4 Wire
MOUNTING: Surface
MIN A.I.C.: 10000
MCB Amps: MLO
BUS Amps: 200
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–Rm 110 Cart N. Wall	2#12,#12G	20/1	2	*Rcpt–Rm 110 W. Drop Cord	2#12,#12G	20/1
3	Rcpt–Rm 110 Cart N. Wall	2#12,#12G	20/1	4	*Rcpt–Rm 110 Mid.W. Drop Cord	2#12,#12G	20/1
5	Rcpt–Rm 110 Cart N. Wall	2#12,#12G	20/1	6	*Rcpt–Rm 110 Mid.E. Drop Cord	2#12,#12G	20/1
7	Rcpt–Rm 110 Cart N. Wall	2#12,#12G	20/1	8	*Rcpt–Rm 110 E. Drop Cord	2#12,#12G	20/1
9	Rcpt–Rm 110 Cart N. Wall	2#12,#12G	20/1	10	Small Cooler – Ltg./Evap. Coil	2#12,#12G	20/1
11	Rcpt–Rm 110 Cart N. Wall	2#12,#12G	20/1	12			15 / 3
13	Rcpt–Rm 110 Cart N. Wall	2#12,#12G	20/1	14	Small Cooler – Condensing Unit	3#12,#12G	
15	Rcpt–Rm 117,115,111 Gen. Use	2#12,#12G	20/1	16			
17	Freezer – Ltg. and Door Close	2#12,#12G	20/1	18	Large Cooler – Ltg./Evap. Coil	2#12,#12G	20/1
19			45 / 3	20			20 / 3
21	Freezer – Condensing Unit	3#8,#10G		22	Large Cooler – Condensing Unit	3#12,#12G	
23				24			
25	Freezer – Evaporator	2#12,#12G	20 / 2	26	Ltg – Mech, Kitchen NL, Emerg.	2#12,#12G	20/1
27				28	Spare	---	20/1
29	Freezer – Evaporator	2#12,#12G	20 / 2	30	Spare	---	20/1
31				32	Spare	---	20/1
33	Freezer – Heat Trace	2#12,#12G	20/1	34	Spare	---	20/1
35	Freezer – Cond. Heat Trace	2#12,#12G	20/1	36	---	---	--
37	Spare	---	20/1	38	---	---	--
39	Spare	---	20/1	40	---	---	--
41	---	---	--	42	---	---	--

* Provide GFCI protected breaker.

PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel 'H1'
LOCATION: Mechanical 108
VOLTS: 277/480
CONFIGURATION: 3 Phase/4 Wire
MOUNTING: Surface
MIN A.I.C.: 10000
MCB Amps: MLO
BUS Amps: 400
ENCL.: NEMA 1
FEATURES:
– Panelboard Construction
– Equipment Ground Bus
– Equal to Square D NF

CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B
1	Ltg – Interior	2#12,#12G	20/1	2			35 / 3
3	Ltg – Exterior	2#12,#12G	20/1	4	**Rm 111–N. Steam Kettle	3#8,#10G	
5			40 / 3	6			
7	**Rm 112–Warewasher	3#8,#10G		8	(Shunt Trip)		
9				10			35 / 3
11	**Rm 112–Warewasher		50 / 3	12	**Rm 111–S. Steam Kettle	3#8,#10G	
13	Booster Heater	3#8,#10G		14			
15				16	(Shunt Trip)		
17	Air Curtain		40 / 3	18			20 / 3
19	Rm 123	3#8,#10G		20	**Rm 111–20 Qt. Kettle	3#12,#12G	
21				22			
23	Air Curtain		40 / 3	24	(Shunt Trip)		
25	Rm 117	3#8,#10G		26	Snow Melt – Upper Landing	2#10,#10G	30/1
27				28	Snow Melt – Stair	2#12,#12G	20/1
29	Spare	---	20/1	30	---	---	--
31	Spare	---	20/1	32	---	---	--
33	Spare	---	20/1	34	---	---	--
35	---	---	--	36	---	---	--
37	---	---	--	38	---	---	--
39	---	---	--	40	---	---	--
41	---	---	--	42	---	---	--

** Provide lock–out kit for breaker.

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

REVISIONS:
1
2
3
4
5
6
7

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

Project Number: 16036
Date: 7/7/17
Project Name: USD 320 WAMEGO–DISTRICT KITCHEN
Project Address: 4290 Columbian Rd. Wamego, KS
Sheet Title: ELECTRICAL DETAILS & SCHEDULES
Sheet: E301
Of: 8

Job No. 15011–1

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

EQUIPMENT LIST

ITEM NO	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	ITEM NO
A1	1 LOT	OFFICE FURNISHINGS			BY OWNER	A1
A2	1	COPIER			BY OWNER	A2
A3	1 LOT	CONF. TABLE			BY OWNER	A3
A4	1 LOT	BREAK / CONF. FURNISHINGS			BY OWNER	A4
A5	1	TOP FREEZER - REFRIGERATOR; 21 C.F.	GENERAL ELECTRIC	GTS22SBXSS		A5
A6	1	OVEN; MICROWAVE	ACP, INC.	RMS10TS		A6
A7	1	CABINETRY; DOOR BASE	MILLWORK	30"D X 34"H. COUNTER TOP	BY OTHER TRADES	A7
A8	1	SINK; DROP-IN	ADVANCE TABCO	DI-I-10		A8
A9	1	ICE MAKER-DISPENSER; NUGGET STYLE	FOLLETT	25CI425A-L		A9
B1	4	LOCKERS; (6) STACK 12" X 15" BOX	SPG / KELMAX	4K0091		B1
B2	2	COAT ROD W/ SHELF	CUSTOM	APPROX. 48"L.		B2
B3	1	BARREL; SOILED LINEN	RUBBERMAID	FG354060 SLIM JIM		B3
B4	1	CLOTHES WASHER; HOME TOP LOAD			BY OWNER	B4
B5	1	CLOTHES DRYER; HOME FRONT LOAD			BY OWNER	B5
B6	2	SHELF; WALL	CUSTOM	12" X 66"		B6
B7	1	TABLE; LINEN W/ U-SHELF	CUSTOM	24" X 66" X 36"H.		B7
B8	1	CABINET; CLEAN LINEN	LYON	1090		B8
C1	1	WALK-IN FREEZER	KOLPAK	9'-0"H.		C1
C2	1	BUMPER RAIL; FLOOR MOUNT	ALVERADO MANUFACTURING	SSB - 60"		C2
C3		NOT USED				C3
C4	1	WALK-IN REFRIGERATOR	KOLPAK	9'-0"H.		C4
C5	1	BUMPER RAIL; FLOOR MOUNT	ALVERADO MANUFACTURING	SSB - 60"		C5
C6	1	COMPRESSOR; -10 FREEZER	KOLPAK	PC449LZOP-3		C6
C7	1	COMPRESSOR; +35 REFRIGERATOR	KOLPAK	PC199MZOP-3		C7
C8	6	WOOD PALLET			BY OWNER	C8
C9	3	PLATFORM TRUCK; CENTER PIVOT	L.K. GOODWIN CO.	PH148-P9		C9
C10A	5	DUNNAGE; (2) TIER T-BAR	NEW-AGE	1031TB		C10A
C10B	4	DUNNAGE; (2) TIER T-BAR	NEW AGE INDUSTRIAL	1026TB		C10B
C10C	2	DUNNAGE; (2) TIER T-BAR	NEW-AGE	1025TB		C10C
C11A	6	DUNNAGE RACK; 1 TIER POLYMER	METRO	HP2230PD		C11A
C11B	5	DUNNAGE RACK; 1 TIER POLYMER	METRO	HP2236PD		C11B
C11C	7	DUNNAGE RACK; 1 TIER POLYMER	METRO	HP2248PD		C11C
C11D	1	DUNNAGE RACK; 1 TIER POLYMER	METRO	HP2260PD		C11D
C12A	2	SHELVING; EPOXY WIRE	METRO	(4) - 18" X 48" SHELVES ON 74" POSTS		C12A
C12B	11	SHELVING; EPOXY WIRE	METRO	(4) - 24" X 42" SHELVES ON 74" POSTS		C12B
C12C	5	SHELVING; EPOXY WIRE	METRO	(4) - 24" X 36" SHELVES ON 74" POSTS		C12C
C12D	6	SHELVING; EPOXY WIRE	METRO	(4) - 24" X 48" SHELVES ON 74" POSTS		C12D
C13A	7	SHELVING; CHROME WIRE	METRO	(4) - 24" X 42" SHELVES ON 74" POSTS		C13A
C13B	3	SHELVING; CHROME WIRE	METRO	(4) - 24" X 48" SHELVES ON 74" POSTS		C13B
C14A	6	UTILITY CART; 3 SHELF - 650 LBS CAP.	LAKESIDE / ARIS	722		C14A
C14B	6	UTILITY CART; 2 SHELF - 650 LBS CAP.	LAKESIDE / ARIS	721		C14B
C15	1	PALLET JACK			BY OWNER	C15
C16	2	TRUCK, UTILITY	LAKESIDE	456		C16
D1A	1	SHELVING; CHROME WIRE	METRO	(4) - 24" X 36" SHELVES ON 74" POSTS		D1A
D1B	3	SHELVING; CHROME WIRE	METRO	(4) - 24" X 42" SHELVES ON 74" POSTS		D1B
D1C	1	SHELVING; CHROME WIRE	METRO	(4) - 24" X 48" SHELVES ON 74" POSTS		D1C
D2	1	MOP HANGAR	ADVANCE TABCO	K-242		D2
D3	1	MOP SINK			BY OTHER TRADES	D3
D4	2	MOP BUCKET & WRINGER	BY OWNER	RUBBERMAID 7577	BY OWNER	D4
D5	2	SHELVING; EPOXY WIRE	METRO	(4) - 18" X 42" SHELVES ON 74" POSTS		D5
D6	1	HOSE REEL; WALL MOUNT	FISHER MFG.	29599		D6
E1	1	WALK-IN REFRIGERATOR	KOLPAK	9'-0"H		E1
E2	1	COMPRESSOR; +35 REFRIGERATOR	KOLPAK	PC99MOP-3P		E2
E3	4	TRANSPORT CABINET; COLD UNIV PAN	CAMBRO	CMBFLHD		E3
E4	4	RACK; SHEET PAN	VARIOUS	SIZE & CONFIG VARIES	RELOCATED	E4
E5	2	TRANSPORT CABINET; HOT	METRO	C5T8-DSB	RELOCATED	E5

EQUIPMENT LIST

ITEM NO	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	ITEM NO
E6	9	TRANSPORT CABINET; HOT	CRES-COR	H339-12-188C		E6
E7	2	TRANSPORT CABINET; HOT	CRES-COR	H339-128C	RELOCATED	E7
F1	4	HAND SINK; FOOT PEDAL	ADVANCE TABCO	7-PS-71		F1
F2	1	REFRIG; (2) SECT GLASS DOOR REACH-IN	TRAULSEN	G21010		F2
F3	2	OVEN; GAS ROLL-IN CONVECTION	BAXTER MANUFACTURING	OV500G1		F3
F4	3	OVEN RACK; SIDE LOAD UNIV PAN	BAXTER	B5RSBFS-13A		F4
F5	3	OVEN RACK; 20 SHEET PAN END LOAD	BAXTER	B5RSB-20A		F5
F6	1	PROOF BOX; ROLL-IN	BAXTER MANUFACTURING	PW1E-34"D-FL		F6
F7	1	OVEN; GAS DBL. STACK CONVECTION	BLODGETT	DFG-100 DOUBLE		F7
F8	1	EXHAUST VENTILATION HOOD			BY OTHER TRADES	F8
G1	1	KETTLE; ELECT 20 QT ON STAND	GROEN	TDB-20		G1
G2	1	BRAISING PAN; GAS 40 GAL.-DRAW OFF	GROEN	BPM-40G-TDO		G2
G3	1	HOOD; TYPE 1 W/ FIRE SUPPRESSION			BY OTHER TRADES	G3
G4	1	HOOD; TYPE 1 W/ FIRE SUPPRESSION			BY OTHER TRADES	G4
G5	2	KETTLE; ELECT. 60 GAL TILT	GROEN	DEE/4-60		G5
G6	1	OVEN-STEAMER; GAS BOILERLESS COMBINATION	CLEVELAND	C4eT 10.20 GS VT		G6
H1	7	SHELVING; CLEANPOT & PAN	METRO	(4)-MQ2448G X 74"H.		H1
J1	1	SLICER; MANUAL	HOBART		RELOCATED	J1
J2	1	STAND; MOBILE SLICER			RELOCATED	J2
J3	2	WASTE BARREL; UNDER COUNTER	RUBBERMAID	FG354GO SLIM JIM		J3
J4	1	TABLE; WORK W/ DRAWERS/SHELVES	CUSTOM	30"D.X120"L.X36"H.		J4
J5	2	RACK; H.D. TALL UNIVERSAL PAN	NEW AGE	4339		J5
J6	1	CABINET; ELEV. DOOR DBL. SIDED	JAMESTOWN	PT203-3G		J6
J7	1	TABLE; VEG. W/ DBL. WORK & SCRAP SINK	CUSTOM	30"D.X120"L.X36"H.		J7
J8	1	SLICER; VEGETABLE	PIPER PRODUCTS	GSM 4		J8
J9	1	STAND; MOBILE EQUIPMENT	PACIFIC STAINLESS PRODUCTS	ME5243024CO		J9
J10	2	PIPE CHASE	CUSTOM	5" X 9"		J10
J11	3	1/2 RACK; SHEET PAN	CHANNEL MANUFACTURING	AXD1825		J11
K1	1	SHELVING; CLEAN POT & PAN	METRO	(4)-MQ2460G - 74"H.		K1
K2	1	TABLE; WORK W/ DRAWERS/SHELVES	CUSTOM	30"D.X120"L.X36"H.		K2
K3	1	MIXER; 20 QT.	HOBART	A200	RELOCATED	K3
K4	1	STAND; MIXER			RELOCATED	K4
K5	1	STAND; WATER DISPENSER	PACIFIC STAINLESS	ME5243030FS		K5
K6	1	DISPENSER; 25 GAL. HOT WATER	FETCO	HWB-25		K6
K7	1	OVEN; MICROWAVE	ACP, INC.	RFS12TS		K7
K8	1	WASTE BARREL; UNDER COUNTER	RUBBERMAID	FG354060 SLIM JIM		K8
K9	1	ELECTRIC CAN OPENER	EDLUND	270		K9
K10	1	TABLE; COOKS W/ DRWS-SHELF	CUSTOM	30"D.X120"L.X36"H.		K10
K11	1	CABINET; ELEV. DOOR DBL. SIDED	JAMESTOWN	PT203-3G		K11
L1	1	STAND; EQUIPMENT	PACIFIC STAINLESS PRODUCTS	ME5243030FS		L1
L2	1	BUN SLICER	OLIVER	723-N		L2
L3	1	TABLE; BAKERS W/ DRAWERS	CUSTOM	30"D.X120"L.X34"H.		L3
L4	2	WASTE BARREL; UNDER COUNTER	RUBBERMAID	FG354060 SLIM JIM		L4
L5	6	INGREDIENTS BIN; 5/5 150LBS - 37 GAL	RUBBERMAID	FG360388		L5
L6	1	MIXER; 40 QT. FLOOR	HOBART	HL400-45TD		L6
L7	1	MIXER; 60 QT. FLOOR	HOBART	HL-600		L7
L8	4	BOWL; 60QT. MIXER & DOLLY	HOBART	HL60 / TRUCK-HLI486		L8
L9	1	CABINET; ELEV. DOOR DBL. SIDED	JAMESTOWN	PT203-3G		L9
L10	1	TABLE; BAKERS W/ DRAWERS	CUSTOM	30"D.X120"L.X34"H.		L10
L11	1	DOUGH DIVIDER; MANUAL AND STAND	DUTCHESS	BMIH-36	RELOCATED	L11
M1	1	DISH TABLE; SOILED	CUSTOM	115"L. X 30"W. X 34"H.		M1
M2	1	COLLECTOR; FOOD WASTE	SALVAJOR	P914 POT & PAN COLLECTOR		M2
M3	1	WAREWASHER; RACK CONVEYOR W/ BSTR HTR, DWT	HOBART US FOODSERVICE	CLPS66E-LR		M3
M4	1	WALL FAN; TRAY DRYING	J & B MANUFACTURING	GLOBAL INDUSTIAL W1968709		M4
M5	1	DISH TABLE; CLEAN	CUSTOM	114"L. X 30"W.		M5
M6	1	SINK; 3 COMP W/ SCRAP SINK	CUSTOM	11'-4"L X 2'-6"W X 2'10"H		M6
M7	1	HAND SINK; FOOT PEDAL	ADVANCE TABCO	7-PS-71		M7
M8	1	HOSE REEL; UNDER COUNTER	FISHER	29599		M7

Montgomery Hoffman Associates
Food Facility Consultants
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

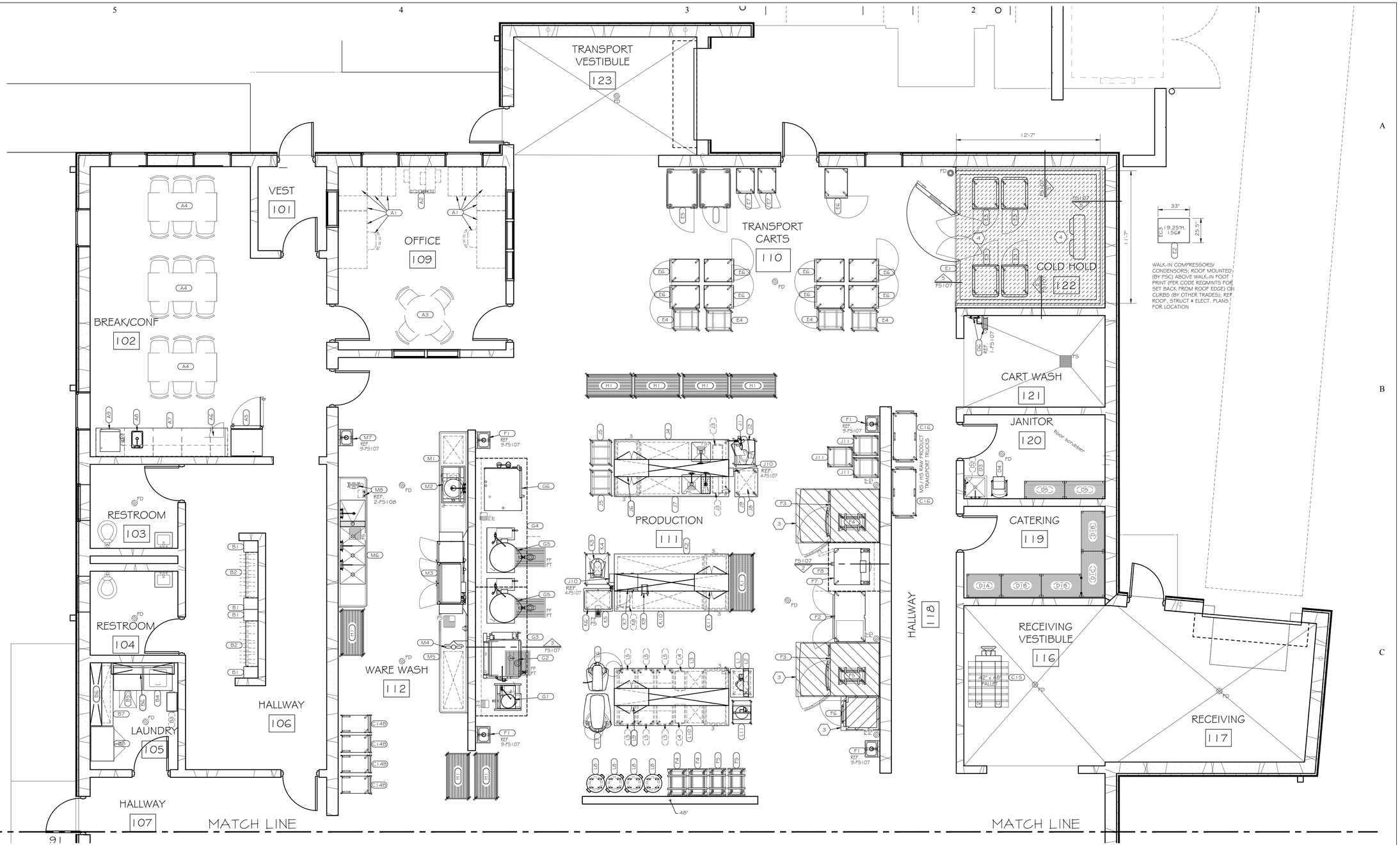
Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
EQUIPMENT LIST

Sheet: **FS100**

Of:



1 NORTH KITCHEN FOOD SERVICE EQUIPMENT PLAN

1/4"=1'-0"

0' 2' 4' 8'

NORTH

EQUIPMENT PLAN NOTES

1. WALK-IN BOX 8' RECESSED SUB SLAB W/ SUB SLAB VENTILATION / HEATERS & 4" SEALED INTERIOR FLOOR SLAB REQ'D (BY OTHER TRADES): REF. 5-FS107 & 3 & 4 -FS108
2. BOLLARD (BY OTHER TRADES)
3. ● NON-COMBUSTIBLE FLR. REQ'D
   ● FLOOR LEVEL WITHIN 1/8", MAX.
   ● MIN. 10'-0" CLG. CLEARANCE.
4. WALK-IN BOX 8' RECESSED SUB SLAB W/ 4" SEALED INTERIOR FLOOR SLAB REQ'D (BY OTHER TRADES): REF. 5-FS107
5. WALK-IN CLG. SUSPENSION ANGLES AND HANGERS (PER WALK-IN MFGR'S. RECOMMENDATIONS). SUSPENDED FROM STRUCTURE AT 48"O.C. MAX., 225LBS LOAD PER HANGAR. ANCHORING METHOD TO STRUCTURE AS APPROVED BY STRUCT ENGINEER. REF. 114000 SPECIFICATION

Montgomery Hoffman Associates
Food Facility Consultants
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

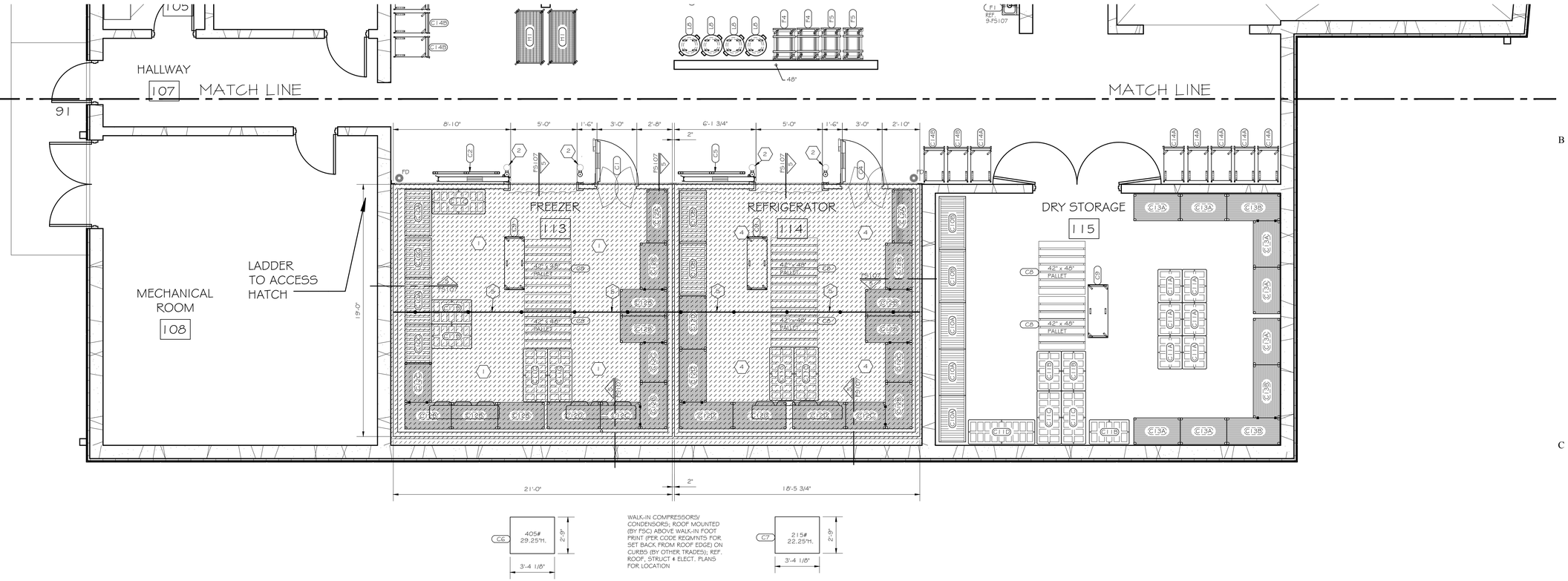
Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
NORTH EQUIPMENT PLAN

Sheet: **FS101**

Of:



C6 405# 29.25"H. 2'-9" 3'-4 1/8"

WALK-IN COMPRESSORS/ CONDENSORS; ROOF MOUNTED (BY FSC) ABOVE WALK-IN FOOT PRINT (PER CODE REQMNTS FOR SET BACK FROM ROOF EDGE) ON CURBS (BY OTHER TRADES); REF: ROOF, STRUCT & ELECT. PLANS FOR LOCATION

C7 215# 22.25"H. 2'-9" 3'-4 1/8"

1 SOUTH KITCHEN FOOD SERVICE EQUIPMENT PLAN

1/4"=1'-0"

0' 2' 4' 8'

NORTH

EQUIPMENT PLAN NOTES

1. WALK-IN BOX 8" RECESSED SUB SLAB W/ SUB SLAB VENTILATION / HEATERS & 4" SEALED INTERIOR FLOOR SLAB REQD (BY OTHER TRADES): REF. S-FS107 # 3 & 4 -FS108
2. BOLLARD (BY OTHER TRADES)
3. • NON-COMBUSTIBLE FLR. REQD
   • FLOOR LEVEL WITHIN 1/8", MAX.
   • MIN. 10'-0" CLG. CLEARANCE.
4. WALK-IN BOX 8" RECESSED SUB SLAB W/ 4" SEALED INTERIOR FLOOR SLAB REQD (BY OTHER TRADES): REF. S-FS107
5. WALK-IN CLG. SUSPENSION ANGLES AND HANGERS (PER WALK-IN MFGRS. RECOMMENDATIONS). SUSPENDED FROM STRUCTURE AT 48"O.C. MAX., 225LBS LOAD PER HANGAR. ANCHORING METHOD TO STRUCTURE AS APPROVED BY STRUCT ENGINEER. REF. 11 14000 SPECIFICATION

Montgomery Hoffman Associates
Food Facility Consultants
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

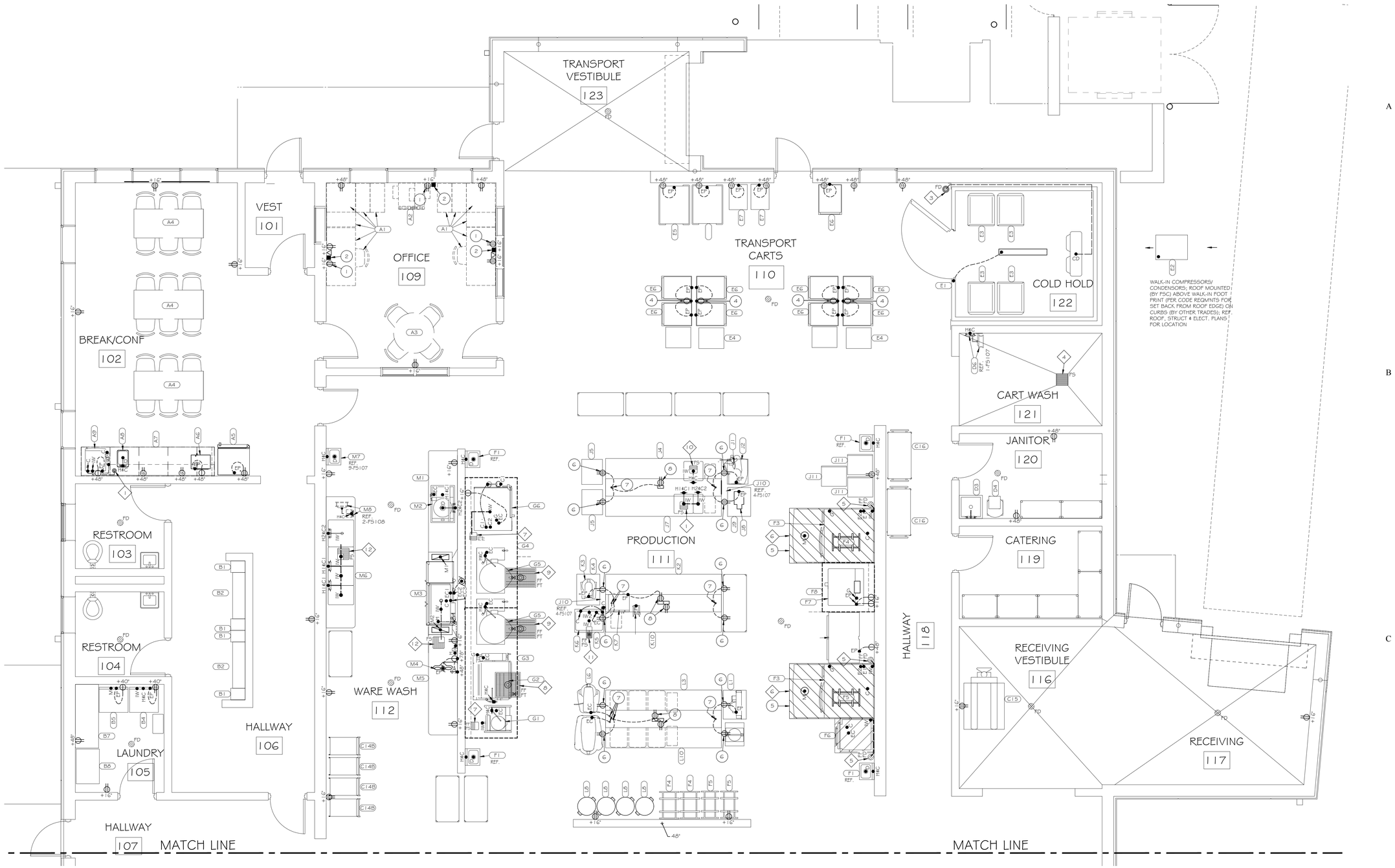
Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
SOUTH EQUIPMENT PLAN

Sheet: **FS102**

Of:



1 NORTH KITCHEN FOOD SERVICE CONNECTON PLAN

1/4"= 1'-0"

0' 2' 4' 8'

NORTH

MHA
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655
Montgomery Hoffman Associates
Food Facility Consultants

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

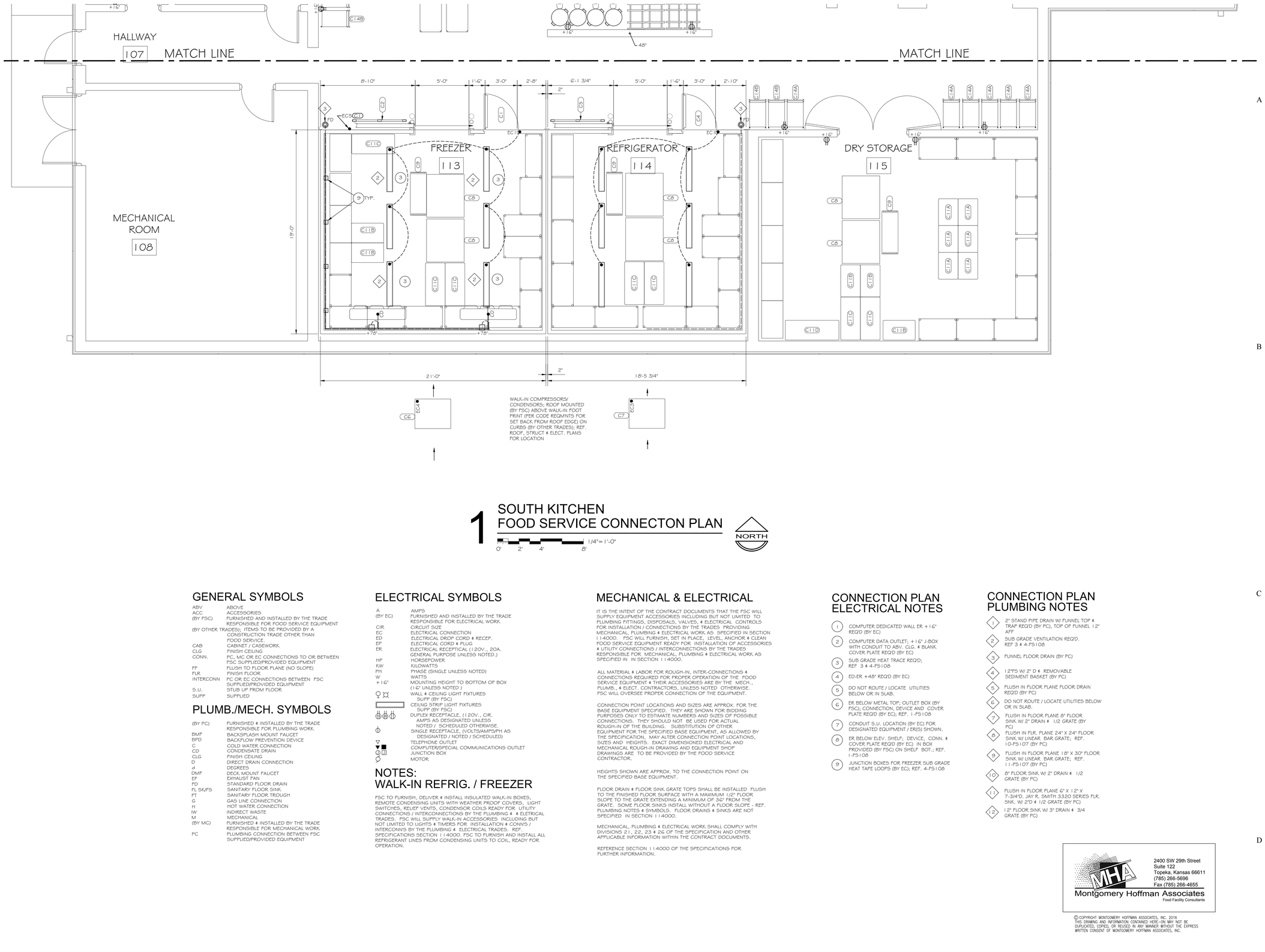
Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
NORTH CONNECTION PLAN

Sheet: **FS103**

Of:



1 SOUTH KITCHEN FOOD SERVICE CONNECTON PLAN

1/4"= 1'-0"

0' 2' 4' 8'

NORTH

GENERAL SYMBOLS

ABV	ABOVE
ACC	ACCESSORIES
(BY FSC)	FURNISHED AND INSTALLED BY THE TRADE RESPONSIBLE FOR FOOD SERVICE EQUIPMENT
(BY OTHER TRADES)	ITEMS TO BE PROVIDED BY A CONSTRUCTION TRADE OTHER THAN FOOD SERVICE.
CAB	CABINET / CASEWORK
CLG	FINISH CEILING
CONN.	PC, MC OR EC CONNECTIONS TO OR BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
FF	FLUSH TO FLOOR PLANE (NO SLOPE)
FLR	FINISH FLOOR
INTERCONN	PC OR EC CONNECTIONS BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
S.U.	STUB UP FROM FLOOR
SUPP	SUPPLIED

PLUMB./MECH. SYMBOLS

(BY PC)	FURNISHED & INSTALLED BY THE TRADE RESPONSIBLE FOR PLUMBING WORK.
BMF	BACKSPLASH MOUNT FAUCET
BPD	BACKFLOW PREVENTION DEVICE
C	COLD WATER CONNECTION
CD	CONDENSATE DRAIN
CLG	FINISH CEILING
D	DIRECT DRAIN CONNECTION
d	DEGREES
DMF	DECK MOUNT FAUCET
EF	EXHAUST FAN
FD	STANDARD FLOOR DRAIN
FL SK/FS	SANITARY FLOOR SINK
FT	SANITARY FLOOR TROUGH
G	GAS LINE CONNECTION
H	HOT WATER CONNECTION
IW	INDIRECT WASTE
M	MECHANICAL
(BY MC)	FURNISHED & INSTALLED BY THE TRADE RESPONSIBLE FOR MECHANICAL WORK.
PC	PLUMBING CONNECTION BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT

ELECTRICAL SYMBOLS

A	AMPS
(BY EC)	FURNISHED AND INSTALLED BY THE TRADE RESPONSIBLE FOR ELECTRICAL WORK.
CIR	CIRCUIT SIZE
EC	ELECTRICAL CONNECTION
ED	ELECTRICAL DROP CORD & RECEPT.
EP	ELECTRICAL CORD & PLUG
ER	ELECTRICAL RECEPTICAL (120V., 20A. GENERAL PURPOSE UNLESS NOTED.)
HP	HORSEPOWER
KW	KILOWATTS
PH	PHASE (SINGLE UNLESS NOTED)
W	WATTS
+16"	MOUNTING HEIGHT TO BOTTOM OF BOX (16" UNLESS NOTED)
	WALL & CEILING LIGHT FIXTURES SUPP (BY FSC)
	CEILING STRIP LIGHT FIXTURES SUPP (BY FSC)
	DUPLEX RECEPTACLE, (120V., CIR. AMPS AS DESIGNATED UNLESS NOTED / SCHEDULED OTHERWISE.
	SINGLE RECEPTACLE, (VOLTS/AMPS/PH AS DESIGNATED / NOTED / SCHEDULED)
	TELEPHONE OUTLET
	COMPUTER/SPECIAL COMMUNICATIONS OUTLET
	JUNCTION BOX
	MOTOR

NOTES: WALK-IN REFRIG. / FREEZER

FSC TO FURNISH, DELIVER & INSTALL INSULATED WALK-IN BOXES, REMOTE CONDENSING UNITS WITH WEATHER PROOF COVERS, LIGHT SWITCHES, RELIEF VENTS, CONDENSOR COILS READY FOR UTILITY CONNECTIONS / INTERCONNECTIONS BY THE PLUMBING & & ELETRICAL TRADES. FSC WILL SUPPLY WALK-IN ACCESSORIES INCLUDING BUT NOT LIMITED TO LIGHTS & TIMERS FOR INSTALLATION & CONN'S / INTERCONN'S BY THE PLUMBING & ELECTRICAL TRADES. REF. SPECIFICATIONS SECTION 11 14000. FSC TO FURNISH AND INSTALL ALL REFRIGERANT LINES FROM CONDENSING UNITS TO COIL, READY FOR OPERATION.

MECHANICAL & ELECTRICAL

IT IS THE INTENT OF THE CONTRACT DOCUMENTS THAT THE FSC WILL SUPPLY EQUIPMENT ACCESSORIES INCLUDING BUT NOT LIMITED TO PLUMBING FITTINGS, DISPOSALS, VALVES, & ELECTRICAL CONTROLS FOR INSTALLATION / CONNECTIONS BY THE TRADES PROVIDING MECHANICAL, PLUMBING & ELECTRICAL WORK AS SPECIFIED IN SECTION 11 14000. FSC WILL FURNISH, SET IN PLACE, LEVEL, ANCHOR & CLEAN FOOD SERVICE EQUIPMENT READY FOR INSTALLATION OF ACCESSORIES & UTILITY CONNECTIONS / INTERCONNECTIONS BY THE TRADES RESPONSIBLE FOR MECHANICAL, PLUMBING & ELECTRICAL WORK AS SPECIFIED IN IN SECTION 11 14000.

ALL MATERIAL & LABOR FOR ROUGH-IN, INTER-CONNECTIONS & CONNECTIONS REQUIRED FOR PROPER OPERATION OF THE FOOD SERVICE EQUIPMENT & THEIR ACCESSORIES ARE BY THE MECH., PLUMB., & ELECT. CONTRACTORS, UNLESS NOTED OTHERWISE. FSC WILL OVERSEE PROPER CONNECTION OF THE EQUIPMENT.

CONNECTION POINT LOCATIONS AND SIZES ARE APPROX. FOR THE BASE EQUIPMENT SPECIFIED. THEY ARE SHOWN FOR BIDDING PURPOSES ONLY TO ESTIMATE NUMBERS AND SIZES OF POSSIBLE CONNECTIONS. THEY SHOULD NOT BE USED FOR ACTUAL ROUGH-IN OF THE BUILDING. SUBSTITUTION OF OTHER EQUIPMENT FOR THE SPECIFIED BASE EQUIPMENT, AS ALLOWED BY THE SPECIFICATION, MAY ALTER CONNECTION POINT LOCATIONS, SIZES AND HEIGHTS. EXACT DIMENSIONED ELECTRICAL AND MECHANICAL ROUGH-IN DRAWING AND EQUIPMENT SHOP DRAWINGS ARE TO BE PROVIDED BY THE FOOD SERVICE CONTRACTOR.

HEIGHTS SHOWN ARE APPROX. TO THE CONNECTION POINT ON THE SPECIFIED BASE EQUIPMENT.

FLOOR DRAIN & FLOOR SINK GRATE TOPS SHALL BE INSTALLED FLUSH TO THE FINISHED FLOOR SURFACE WITH A MAXIMUM 1/2" FLOOR SLOPE TO THE GRATE EXTENDING A MINIMUM OF 36" FROM THE GRATE. SOME FLOOR SINKS INSTALL WITHOUT A FLOOR SLOPE - REF. PLUMBING NOTES & SYMBOLS. FLOOR DRAINS & SINKS ARE NOT SPECIFIED IN SECTION 11 14000.

MECHANICAL, PLUMBING & ELECTRICAL WORK SHALL COMPLY WITH DIVISIONS 21, 22, 23 & 26 OF THE SPECIFICATION AND OTHER APPLICABLE INFORMATION WITHIN THE CONTRACT DOCUMENTS.

REFERENCE SECTION 11 14000 OF THE SPECIFICATIONS FOR FURTHER INFORMATION.

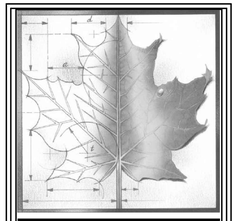
CONNECTION PLAN ELECTRICAL NOTES

1. COMPUTER DEDICATED WALL ER +16" REQD (BY EC)
2. COMPUTER DATA OUTLET; +16" J-BOX WITH CONDUIT TO ABV. CLG. & BLANK COVER PLATE REQD (BY EC)
3. SUB GRADE HEAT TRACE REQD; REF 3 & 4-FS108
4. ED-ER +48" REQD (BY EC)
5. DO NOT ROUTE / LOCATE UTILITIES BELOW OR IN SLAB.
6. ER BELOW METAL TOP; OUTLET BOX (BY FSC); CONNECTION, DEVICE AND COVER PLATE REQD (BY EC); REF. 1-FS108
7. CONDUIT S.U. LOCATION (BY EC) FOR DESIGNATED EQUIPMENT / ER(S) SHOWN.
8. ER BELOW ELEV. SHELF; DEVICE, CONN. & COVER PLATE REQD (BY EC) IN BOX PROVIDED (BY FSC) ON SHELF BOT.; REF. 1-FS108
9. JUNCTION BOXES FOR FREEZER SUB GRADE HEAT TAPE LOOPS (BY EC); REF. 4-FS108

CONNECTION PLAN PLUMBING NOTES

1. 2" STAND PIPE DRAIN W/ FUNNEL TOP & TRAP REQD (BY PC), TOP OF FUNNEL 12" AFF
2. SUB GRADE VENTILATION REQD. REF 3 & 4-FS108
3. FUNNEL FLOOR DRAIN (BY PC)
4. 12"FS W/ 2" D & REMOVABLE SEDIMENT BASKET (BY PC)
5. FLUSH IN FLOOR PLANE FLOOR DRAIN REQD (BY PC)
6. DO NOT ROUTE / LOCATE UTILITIES BELOW OR IN SLAB.
7. FLUSH IN FLOOR PLANE 8" FLOOR SINK W/ 2" DRAIN & 1/2 GRATE (BY PC)
8. FLUSH IN FLR. PLANE 24" X 24" FLOOR SINK W/ LINEAR BAR GRATE; REF. 10-FS107 (BY PC)
9. FLUSH IN FLOOR PLANE 18" X 30" FLOOR SINK W/ LINEAR BAR GRATE; REF. 11-FS107 (BY PC)
10. 8" FLOOR SINK W/ 2" DRAIN & 1/2 GRATE (BY PC)
11. FLUSH IN FLOOR PLANE 6" X 12" X 7-3/4"D. JAY R. SMITH 3320 SERIES FLR. SNK. W/ 2"D & 1/2 GRATE (BY PC)
12. 12" FLOOR SINK W/ 3" DRAIN & 3/4 GRATE (BY PC)

MHA
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655
Montgomery Hoffman Associates
Food Facility Consultants



BBN

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
SOUTH CONNECTION PLAN

Sheet:
FS104

Of:

HOOD/ EXHAUST EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	HOOD MUA (M2)					HOOD EXH. (M1)					ITEM
			SIZE (IN)	CFM	SP	AFF (IN)	REMARKS	SIZE (IN)	CFM	SPG	AFF (IN)	REMARKS	
B5	1	CLOTHES DRYER; HOME FRONT LOAD						4				VENT TO EXTERIOR REQD (BY MC)	B5
F3	2	OVEN; GAS ROLL-IN CONVECTION						8"RD	690	.6"	99	DUCT, DUCT CONN & FAN REQD (BY MC) TO INTEGRAL TYPE I EYEBROW HOOD (BY FSC)	F3
F8	1	EXHAUST VENTILATION HOOD; TYPE II	-				UTILITIES NOT SHOWN - PROVIDED (BY OTHER TRADES)	-					F8
G3	1	HOOD; TYPE I W/ FIRE SUPPRESSION	-				UTILITIES NOT SHOWN - PROVIDED (BY OTHER TRADES)	-					G3
G4	1	HOOD; TYPE I W/ FIRE SUPPRESSION	-				UTILITIES NOT SHOWN - PROVIDED (BY OTHER TRADES)	-					G4
M3	1	WAREWASHER, RACK CONVEYOR W/ BSTR HTR, DW						4X16	200	0		(M1); CONN REQD (BY MC) TO ENTRY END DUCT (SUPP BY FSC) AT 3" ABV CLG	M3
								4X16	400	0		(M2); CONN REQD (BY MC) TO EXIT END DUCT (SUPP BY FSC) AT 3" ABV CLG	

GAS EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

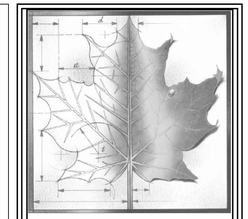
ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	GAS (G)				ITEM
			SIZE (IN)	MBTUH	AFF (IN)	REMARKS	
F3	2	OVEN; GAS ROLL-IN CONVECTION	1	180	102	CONN. REQ'D (BY EC); 7" - 14"W.C.	F3
F7	1	OVEN; GAS DBL. STACK CONVECTION	3/4	110	10	CONN REQD (BY PC) W/ QUICK DISCONNECT HOSE (SUPP BY FSC) 7" - 10.5" W.C. REQD	F7
G2	1	BRAISING PAN; GAS 40 GAL.-DRAW OFF	1/2	144	25	CONN REQD (BY PC) W/ 3/4" QUICK DISCONNECT HOSE (SUPP BY FSC) 4.5"MIN-14"MAX W.C. REQD	G2
G6	1	OVEN-STEAMER; GAS BOILERLESS COMBINATION	3/4	109.2	4	CONN. REQ'D (BY PC) W/ HOSE SUPP. (BY FSC); 5.5 - 14"W.C.	G6

WATER / WASTE EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	COLD WATER (C)			HOT WATER (H)				DIRECT DRAIN (D)			INDIRECT WASTE (IW)			ITEM
			SIZE (IN)	AFF (IN)	REMARKS	SIZE (IN)	GPH	AFF (IN)	REMARKS	SIZE (IN)	AFF (IN)	REMARKS	SIZE (IN)	AFF (IN)	REMARKS	
A8	1	SINK; DROP-IN	1/2	DMF	CONN REQD (BY PC)	1/2		DMF	CONN REQD (BY PC)	1-1/2		CONN REQD (BY PC)				A8
A9	1	ICE MAKER-DISPENSER; NUGGET STYLE	3/8		CONN REQD (BY PC) THRU 3/8" IN/OUT FILTER (IN CABINETRY BELOW) SUPP (BY FSC)								3/4		IW; EXTEND TO 2" STAND PIPE DRAIN W/ FUNNEL & TRAP REQD (BY PC)	A9
B4	1	CLOTHES WASHER; HOME TOP LOAD	1/2		GUY GRAY BOX W/ VALVES & WASTE REQD (BY PC)	1/2			GUY GRAY BOX W/ VALVES & WASTE REQD (BY PC)				2		GUY GRAY BOX W/ VALVES & WASTE REQD (BY PC)	B4
C6	1	COMPRESSOR; -10 FREEZER REF. 7 & 8-FS107											3/4	80	CD; EVAPORATORS - EXTEND (2) TO F5 REQD (BY PC); REF DETAIL	C6
C7	1	COMPRESSOR; +35 REFRIGERATOR REF. 6 & 8-FS107											3/4	80	CD; EVAPORATOR - EXTEND TO F5 REQD (BY PC); REF DETAIL	C7
D3	1	MOP SINK			UTILITIES NOT SHOWN (BY OTHER TRADES)				UTILITIES NOT SHOWN (BY OTHER TRADES)			UTILITIES NOT SHOWN (BY OTHER TRADES)				D3
D6	1	HOSE REEL; WALL MOUNT REF. 1-FS107	1/2	32	CONN & INTERCONN REQD (BY PC) TO WALL VALVE / BPD / HOSE REEL (SUPP BY FSC); REF. DETAIL	1/2		32	CONN & INTERCONN REQD (BY PC) TO WALL VALVE / BPD / HOSE REEL (SUPP BY FSC); REF. DETAIL							D6
E2	1	COMPRESSOR; +35 REFRIGERATOR											3/4	80	CD; EVAPORATOR - EXTEND TO F5 REQD (BY PC); REF DETAIL	E2
F1	4	HAND SINK; FOOT PEDAL REF. 9-FS107	1/2	BMF	CONN TO FOOT PEDAL & INTERCONN TO BMF REQD (BY PC)	1/2		BMF	CONN TO FOOT PEDAL & INTERCONN TO BMF REQD (BY PC)	1-1/2		CONN REQD (BY PC)				F1
F3	2	OVEN; GAS ROLL-IN CONVECTION	1/2	94	COLD SOFT WATER CONN REQD (BY PC); >30 PSI REQD - 3 GPM								1/2	7	EXTEND TO FD REQD (BY PC)	F3
F6	1	PROOF BOX; ROLL-IN	1/2	85	COLD SOFT WATER CONN REQD (BY PC); >30 PSI REQD - 3 GPM								1/2	5	EXTEND TO FD REQD (BY PC)	F6
G1	1	KETTLE; ELECT 20 QT ON STAND	1/2	DMF	CONN REQD (BY PC) W/ HOSE (SUPP BY FSC)	1/2		DMF	CONN REQD (BY PC) W/ HOSE (SUPP BY FSC)				1-1/2	2	EXTEND TO F5 REQD (BY PC)	G1
G2	1	BRAISING PAN; GAS 40 GAL.-DRAW OFF	1/2		CONN REQD (BY PC) TO STAFF LEFT SIDE BRACKET W/ QUICK DISCONNECT HOSE (SUPP BY FSC)	1/2			CONN REQD (BY PC) TO STAFF LEFT SIDE BRACKET W/ QUICK DISCONNECT HOSE (SUPP BY FSC)							G2
G5	2	KETTLE, STEAM JACKETED, ELECTRIC, TILT	1/2	33	DMF; CONN REQD (BY PC) W/ HOSE SUPP. (BY FSC)	1/2		33	DMF; CONN REQD (BY PC) W/ HOSE SUPP. (BY FSC)							G5
G6	1	OVEN-STEAMER; GAS BOILERLESS COMBINATION	3/4		C1 (WATER INJECTION); TAP WATER CONN REQD (BY PC) THRU HOSES & 3/4" IN/OUT FILTER SUPP (BY FSC); 22-87 PSI REQD								2		EXTEND TO F5 REQD (BY PC)	G6
			3/4		C2 (CLEAN & SPRAY); CONN REQD (BY PC) THRU HOSE SUPP (BY FSC); 22-87 PSI REQD											
J4	1	TABLE; WORK W/ DRAWERS/SHELVES	1/2	DMF	CONN REQD (BY PC)	1/2		DMF	CONN REQD (BY PC)				2		EXTEND TO F5 REQD (BY PC)	J4
J7	1	TABLE; VEG. W/ DBL. WORK & SCRAP SINK	1/2	DMF	C1 (FAUCET); CONN REQD (BY PC)	1/2		DMF	H1 (FAUCET); CONN REQD (BY PC)				2		IW; MANIFOLD (2) & EXTEND TO F5 REQD (BY PC)	J7
			1/2	DMF	C2 (PRE-RINSE); CONN REQD (BY PC)	1/2		DMF	H2 (PRE-RINSE); CONN REQD (BY PC)							
K6	1	DISPENSER; 25 GAL. HOT WATER	3/8		TAP WATER CONN REQD (BY PC) THRU 3/8" IN/OUT FILTER & HOSE SUPP (BY FSC); 20-75 PSI; 3/4 GPM MIN.								1/2		IW1 (TANK DRAIN); EXTEND TO F5 REQD (BY PC)	K6
													1/2		IW2 (OVERFLOW DRAIN); EXTEND TO F5 REQD (BY PC)	
M2	1	COLLECTOR; FOOD WASTE	3/4	20	C1 (COLLECTOR); 3/4 SUPPLY & 1/2" CONN REQD (BY PC)	3/4	60	20	H1 (COLLECTOR); 140D 3/4 SUPPLY & 1/2" CONN REQD (BY PC)	2	8	CONN REQD (BY PC)				M2
			1/2	BMF	C2 (PRE-RINSE); CONN REQD (BY PC)	1/2		BMF	H2 (PRE-RINSE); CONN REQD (BY PC)							
M3	1	WAREWASHER, RACK CONVEYOR W/ BSTR HTR, DW	1/2		(DRAIN WATER TEMPERING); CONN. REQD (BY PC) TO DRAIN WATER TEMPERING ASSEMBLY INSTALLED (BY FSC)	1/2	126	11	110D SOFT HOT WATER CONN REQD (BY PC) THRU 3/4" IN/OUT FILTER SUPP (BY FSC); 15-25 PSI; 46 GALS TO FILL				2	7	EXTEND FROM DRAIN WATER TEMPERING TO F5 REQD (BY PC); 38 GPM MAX FLOW	M3
M6	1	SINK; 3 COMP W/ SCRAP SINK	3/4EA	BMF	C1 (FAUCETS); (2) CONN'S REQ'D (BY PC)	3/4EA		BMF	H1 (FAUCETS); (2) CONN'S REQ'D (BY PC)				2		MANIFOLD (4) & EXTEND TO F5 REQD (BY PC)	M6
			1/2	BMF	C2 (PRE-RINSE); (1) CONN REQD (BY PC)	1/2		BMF	H2 (PRE-RINSE); (1) CONN REQD (BY PC)							
M7	1	HAND SINK; FOOT PEDAL REF. 9-FS107	1/2	BMF	CONN TO FOOT PEDAL & INTERCONN TO BMF REQD (BY PC)	1/2		BMF	CONN TO FOOT PEDAL & INTERCONN TO BMF REQD (BY PC)	1-1/2		CONN REQD (BY PC)				M7
M8	1	HOSE REEL; UNDER COUNTER REF. 2-FS108	1/2"	30"	BPD & CONN REQD (BY PC) TO VALVE & REEL (SUPP BY FSC); REF. DETAIL	1/2"		30"	BPD & CONN REQD (BY PC) TO VALVE & REEL (SUPP BY FSC); REF. DETAIL							M8

Montgomery Hoffman Associates
Food Facility Consultants
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655



BBN

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

Project Name: USD 320 WAMEGO CENTRAL KITCHEN

Project Address: US-24 AND COLUMBIA ROAD WAMEGO, KS 66547

Sheet Title: **CONNECTION SCHEDULES**

Sheet: **FS105**

Of:

ELECTRIC EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

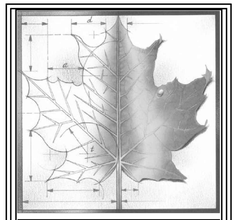
ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	ELECTRICAL EC	EP	V	PH	A	KW	HP	NEMA	AFF AWE	REMARKS	ITEM
A1	1 LOT	OFFICE FURNISHINGS					-					REF. PLAN FOR ER / DATA / PHONE LOCATIONS REQ'D (BY EC)	A1
A2	1	COPIER					-					REF. PLAN FOR ER / DATA LOCATIONS REQ'D (BY EC)	A2
A5	1	TOP FREEZER - REFRIGERATOR; 21 C.F.		X	120	1	15.0			5-15		WALL ER REQ'D (BY EC)	A5
A6	1	OVEN; MICROWAVE		X	120	1	13.0	1.5		5-15		WALL ER REQ'D (BY EC)	A6
A9	1	ICE MAKER-DISPENSER; NUGGET STYLE		X	115	1	11.0	0.8		5-15		WALL ER REQ'D (BY EC)	A9
B4	1	CLOTHES WASHER; HOME TOP LOAD		X	120	1	15.0		1/3	5-15		WALL ER REQ'D (BY EC)	B4
B5	1	CLOTHES DRYER; HOME FRONT LOAD		X	120-208	1	30.0			14-30		WALL ER REQ'D (BY EC) ; SUPPLIER PROVIDE UNIT W/ 208V. HTR ELEMENTS	B5
C1	1	WALK-IN FREEZER	X		120	1	12.0					EC1; CONN TO LIGHTS & ACC. REQ'D	C1
		REF. 7-F5107										(BY EC); REF. DETAIL	
		SLIDING DOOR; 60" MANUAL	X		120	1	20CIR					EC5 (DOOR FROSTSTOP CIRCUIT); KEY SWITCH DISCONNECT & INTERCONN. REQ'D (BY EC)	
		HEAVE PREVENTION SUB GRADE HEAT TAPE										(BY EC); REF. 3 & 4-F5108	
C4	1	WALK-IN REFRIGERATOR	X		120	1	8.0					EC1; CONN TO LIGHTS & ACC. REQ'D	C4
		REF. G-F5107										(BY EC); REF. DETAIL	
C6	1	COMPRESSOR; -10 FREEZER	X		120	1	15.0				7B	ER (HEAT TAPES); REQ'D (BY EC); REF. DETAIL	C6
		REF. 7 & 8-F5107	X		208	1	9.7				7B	EC2 (EVAPORATORS); (2) CONNS REQ'D (BY EC); REF. DETAIL	
			X		208	3	15.7		4 1/2			EC4 (COMPRESSOR	
C7	1	COMPRESSOR; +35 REFRIGERATOR	X		115	1	3.6				7B	EC2; EVAPORATOR CONN REQ'D	C7
		REF. G & 8-F5107										(BY EC); REF. DETAIL	
			X		208	3	12.3		2.0			EC3: COMPRESSOR CONN REQ'D (BY EC); REF. DETAIL	
E1	1	WALK-IN REFRIGERATOR	X		120	1	8.0				AFF	EC1; CONN TO LIGHTS & ACC. REQ'D	E1
		REF. G-F5107										(BY EC); REF. DETAIL	
E2	1	COMPRESSOR; +35 REFRIGERATOR	X		115	1	1.8				7B	EC2: EVAPORATOR CONN REQ'D	E2
		REF. G & 8-F5107										(BY EC); REF. DETAIL	
			X		208	3	7.5		1.0			EC3: CONDENSOR CONN REQ'D (BY EC); REF. DETAIL	
E5	2	TRANSPORT CABINET; HOT		X	120	1	12.0	1.4		5-15		WALL ER REQ'D (BY EC)	E5
E6	9	TRANSPORT CABINET; HOT		X	120	1	7.5	0.9		5-15		WALL OR CORD DROP (+48") ER REQ'D (BY EC), AS SHOWN. DEDICATED 15A ER REQ'D, WHERE SHOWN, FOR FUTURE EQUIPMENT	E6
E7	2	TRANSPORT CABINET; HOT 12X20 PAN		X	120	1	7.5	0.9		5-15		DEDICATED 15A WALL ER REQ'D (BY EC) FOR FUTURE EQUIPMENT	E7
F2	1	REFRIG; (2) SECT GLASS DOOR REACH-IN		X	115	1	8.4		5/8	5-15		WALL ER REQ'D (BY EC)	F2
F3	2	OVEN; GAS ROLL-IN CONVECTION	X		208	3	4.2				8G	EC1 (MOTORS); CONN. REQ'D (BY EC)	F3
			X		120	1	20CIR				8G	EC2 (CONTROLS & VENT FAN); DED. CIR. REQ'D (BY EC) FOR CONTROLS & 10A CONN.FOR CONTROL OF VENT FAN (BY	
F6	1	PROOF BOX; ROLL-IN	X		208	1	18.0				85	CONN. REQ'D (BY EC) W/ (2) HOT, NEUTRAL & GRND	F6
F7	1	OVEN; GAS DBL. STACK CONVECTION		X	115	1	6 EA.			5-15		(2) WALL ER'S REQ'D (BY EC)	F7
F8	1	EXHAUST VENTILATION HOOD					-					UTILITIES NOT SHOWN - PROVIDED (BY OTHER TRADES)	F8
G1	1	KETTLE; ELECT 20 QT ON STAND	X		480	3	8.0	6.3				CONN REQ'D (BY EC)	G1
G2	1	BRAISING PAN; GAS 40 GAL.-DRAW OFF	X		115	1	5.0				25.7	CONN. REQ'D (BY EC)	G2
G3	1	HOOD; TYPE 1 W/ FIRE SUPPRESSION					-					UTILITIES NOT SHOWN - PROVIDED (BY OTHER TRADES)	G3
G4	1	HOOD; TYPE 1 W/ FIRE SUPPRESSION					-					UTILITIES NOT SHOWN - PROVIDED (BY OTHER TRADES)	G4
G5	2	KETTLE, STEAM JACKETED, ELECTRIC, TILT	X		480	3	29.0	24.0			11.75	CONN. REQ'D (BY EC)	G5
G6	1	OVEN-STEAMER; GAS BOILERLESS COMBINATION	X		120	1	7.5	0.5				CONN W/ CORD SET & WALL ER REQ'D (BY EC)	G6

ELECTRIC EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	ELECTRICAL EC	EP	V	PH	A	KW	HP	NEMA	AFF AWE	REMARKS	ITEM
J1	1	SLICER; AUTOMATIC		X	120	1			1/2	5-15		WILL PLUG TO VARIOUS ER'S THRU OUT THE KITCHEN	J1
J4	1	TABLE; WORK W/ DRAWERS/SHELVES	X		120	1	1GEA					(2) ER'S; DEVICE/CONN/COVER REQ'D	J4
		REF. 1-F5108										(BY EC) IN (2) UNDER TOP MT. BOXES (BY FSC)	
J7	1	TABLE; VEG. W/ DBL. WORK & SCRAP SINK	X		120	1	1GEA				34	(3) ER'S; DEVICE/CONN/COVER REQ'D	J7
		REF. 1-F5108										(BY EC) IN (1) UNDER ELEV. SHELF & (2) UNDER TOP MT. BOXES (BY FSC)	
J8	1	SLICER; VEGETABLE		X	115	1	3.0		1/2	5-15		WILL PLUG TO VARIOUS ER'S THRU OUT THE KITCHEN	J8
K2	1	TABLE; WORK W/ DRAWERS/SHELVES	X		120	1	1GEA					(2) ER'S; DEVICE/CONN/COVER REQ'D	K2
		REF. 1-F5108										(BY EC) IN (2) UNDER TOP MT. BOXES (BY FSC)	
K3	1	MIXER; 20 QT.		X	115	1	8.2		1/2	5-15		WILL PLUG TO VARIOUS ER'S THRU OUT THE KITCHEN	K3
K6	1	DISPENSER; 25 GAL. HOT WATER	X		120/208	3	38.0	13.6				4 WIRE + GRD. CONN REQ'D (BY EC)	K6
K7	1	OVEN; MICROWAVE		X	120	1	16.0	2.0		5-20		COULD PLUG TO VARIOUS ER'S THRU OUT THE KITCHEN REQ'D (BY EC)	K7
K9	1	ELECTRIC CAN OPENER		X	115	1	1.2			5-15		WILL PLUG TO VARIOUS ER'S THRU OUT KITCHEN	K9
K10	1	TABLE; COOKS W/ DRWS-SHELF	X		120	1	1GEA					(4) ER'S; DEVICE/CONN/COVER REQ'D	K10
		REF. 1-F5108										(BY EC) IN (2) UNDER TOP MT. BOXES & (2) UNDER ELEV SHELF BOXES (BY FSC)	
L2	1	BUN SLICER		X	115	1	6.8		1/3	5-15		PLUGS TO TABLE MT. ER SHOWN	L2
L3	1	TABLE; BAKERS W/ DRAWERS	X		120	1	1GEA					(2) ER'S; DEVICE/CONN/COVER REQ'D	L3
		REF. 1-F5108										(BY EC) IN (2) UNDER TOP MT. BOXES (BY FSC)	
L6	1	MIXER; 40 QT. FLOOR	X		208	1	9.3		1-1/2		12	CONN REQ'D (BY EC)	L6
L7	1	MIXER; 60 QT. FLOOR	X		208	3	10.0		2.7		54	CONN. REQ'D (BY EC)	L7
L10	1	TABLE; BAKERS W/ DRAWERS	X		120	1	1GEA					(4) ER'S; DEVICE/CONN/COVER REQ'D	L10
		REF. 1-F5108										(BY EC) IN (2) UNDER TOP & (2) UNDER ELEV SHELF MT. BOXES (BY FSC)	
M2	1	COLLECTOR; FOOD WASTE	X		208	1	5.5		3/4		15	CONN REQ'D (BY EC)	M2
M3	1	WAREWASHER, RACK CONVEYOR W/ BSTR HTR, DWT	X		480	3	30.6				64	EC1 (MTR & HTR); CONN REQ'D (BY EC)	M3
							-				64	EC2; (FAN CNTRL); CONTACTOR & INTERCONN TO EF REQ'D (BY EC)	
			X		480	3	40.1	30.0			64	EC3 (BSTR HTR) CONN REQ'D (BY EC)	
M4	1	WALL FAN; TRAY DRYING		X	120	1	1.8	0.2	1/8	5-15		SWITCH CONTROLLED WALL ER REQ'D (BY EC)	M4

2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655
Montgomery Hoffman Associates
Food Facility Consultants



BBN

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

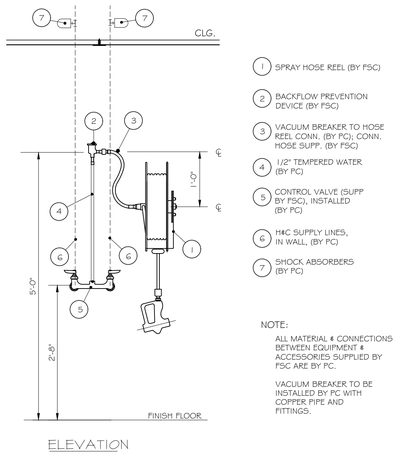
Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
CONNECTION SCHEDULES

Sheet:
FS106

Of:



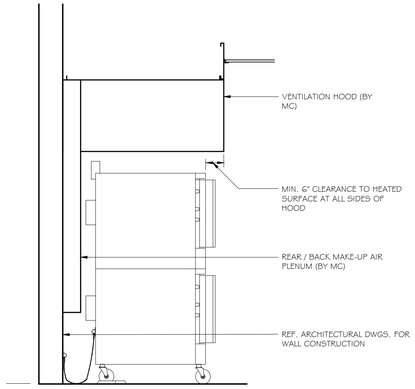
ELEVATION

1. SPRAY HOSE REEL (BY FSC)
2. BACKFLOW PREVENTION DEVICE (BY FSC)
3. VACUUM BREAKER TO HOSE REEL CONN. (BY PC); CONN. HOSE SUPP. (BY FSC)
4. 1/2" TEMPERED WATER (BY PC)
5. CONTROL VALVE (SUPP BY FSC), INSTALLED (BY PC)
6. H4C SUPPLY LINES, IN WALL, (BY PC)
7. SHOCK ABSORBERS (BY PC)

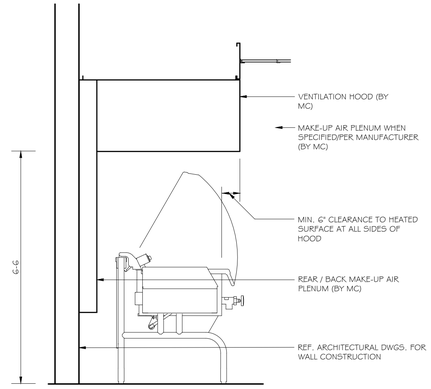
NOTE:
ALL MATERIAL & CONNECTIONS BETWEEN EQUIPMENT & ACCESSORIES SUPPLIED BY FSC ARE BY PC.

VACUUM BREAKER TO BE INSTALLED BY PC WITH COPPER PIPE AND FITTINGS.

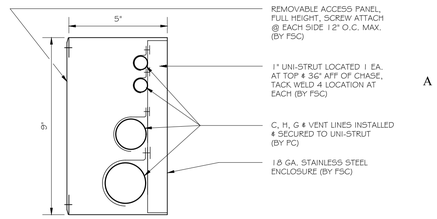
1 SPRAY REEL HOSE CONN.



2 WALL HOOD SECTION
(BY OTHER TRADES)

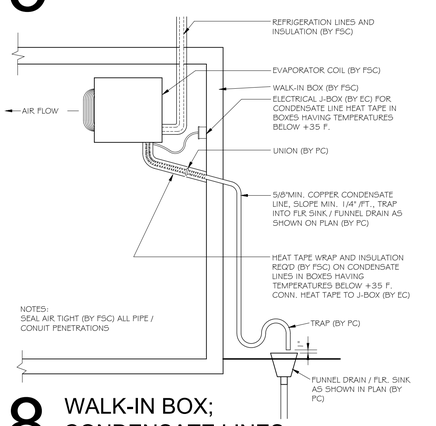


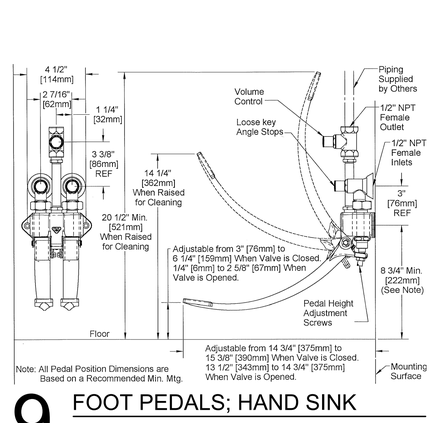
3 WALL HOOD SECTION
(BY OTHER TRADES)



NOTE:
ALL ENCLOSURE IS 18 GA. STAINLESS STEEL CHASE IS OPEN AT TOP & BOT. (BRACE AS NECESSARY TO PREVENT RACKING)
PROVIDE 1" TRIM RING @ CEILING PENETRATION SECURE TO STRUCTURE ABV. CLG. PROVIDE 1-1/2" X 1-1/2" X 18 GA. S/S ANGLE, AT INSIDE BOTTOM PERIMETER, TACK, WELDED IN. SET IN SEALANT & EXPANSION ANCHOR TO FLOOR.

4 PIPE DROP CHASE





5 WALK-IN REFRIGERATOR / FREEZER BOX

GENERAL NOTES;

REFER TO CONN. PLAN & SCHEDULE FOR PLUMB., MECH., & ELECT., CONN. SIZING, ROUTING & EQUIPMENT LOCATIONS.

PC & EC WILL DESIGNATE LOCATIONS FOR FSC TO PROVIDE & SEAL ALL PENETRATIONS THRU INSULATED BOX PERIMETER.

ALL CONDUITS ROUTED OUTSIDE OF BOX WHERE EVER POSSIBLE.

USE NON-METALIC CONDUITS AT ALL PENETRATIONS THRU INSULATED BOX PERIMETER.

1. PRE-FITTED CONDENSOR UNIT (BY FSC). REF. ARCH., MECH., & ELECT. DRAWINGS FOR LOCATION.
2. PRE-FITTED EVAPORATOR COIL BY FSC
3. COOLER BOX, DOORS, & ACC. BY FSC
4. 5/8"MIN. COPPER CONDENSATE LINE, SLOPE 4"/FT., TRAP INTO FL SINK OR AS SHOWN ON PLAN (BY PC)
5. DISCONNECT, REF. ELECT. PLAN (BY EC)
6. EC MATERIAL & CONN. TO CONDENSOR (BY EC)
7. EC MATERIAL & CONN., (BY EC); EVAPORATOR TO CONDENSOR (REF. MANUFACTURER)
8. EC MATERIAL & CONN. TO ADDITIONAL LIGHTS SHOWN (BY EC)
9. EC MATERIAL & CONN. TO J-BOX & INTERCONNECT PRE-FITTED SWITCH, LIGHT THERMOMETER, & DOOR HTR. & INTERCONN. TO ADDITIONAL LIGHTS (BY EC)
10. ADDITIONAL LIGHTS SUPPLIED (BY FSC)

6 WALK-IN COOLER M & E

GENERAL NOTES;

REFER TO CONN. PLAN & SCHEDULE FOR PLUMB., MECH., & ELECT., CONN. SIZING, ROUTING & EQUIPMENT LOCATIONS.

PC & EC WILL DESIGNATE LOCATIONS FOR FSC TO PROVIDE & SEAL ALL PENETRATIONS THRU INSULATED BOX PERIMETER.

ALL CONDUITS ROUTED OUTSIDE OF BOX WHERE EVER POSSIBLE.

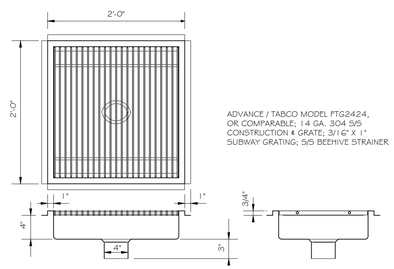
USE NON-METALIC CONDUITS AT ALL PENETRATIONS THRU INSULATED BOX PERIMETER.

1. PRE-FITTED COMPRESSOR/CONDENSOR UNIT (BY FSC). REF. ARCH., MECH., & ELECT. DRAWINGS FOR LOCATION.
2. PRE-FITTED EVAPORATOR COIL BY FSC
3. FREEZER BOX, DOORS, & ACC. BY FSC
4. 3/4" MIN. COPPER CONDENSATE LINE, SLOPE 4"/FT., TRAP INTO FL SINK OR AS SHOWN ON PLAN (BY PC)
5. DISCONNECT, REF. ELECT. PLAN (BY EC)
6. EC MATERIAL & CONN. TO CONDENSOR (BY EC)
7. EC MATERIAL & INTERCONN. BETWEEN EVAPORATOR & COMPRESSOR (BY EC) (NO TIME CLOCK)
8. EC MATERIAL & CONN. TO ADDITIONAL LIGHTS SHOWN (BY EC)
9. EC MATERIAL & CONN. TO J-BOX & INTERCONNECT PRE-FITTED SWITCH, LIGHT THERMOMETER, & DOOR HTR. & INTERCONN. TO ADDITIONAL LIGHTS (BY EC)
10. ADDITIONAL LIGHTS PROVIDED (BY FSC)
11. PROVIDE ELECTRIC HEAT TAPE WRAP ON CONDDNSATE LINE & EC MATERIAL & CONN. TO RECEPTACLE AT EVAPORATOR COIL (BY EC)
12. EC MATERIAL & CONN. OF RELIEF VENT HEATER TO POWER @ ITEM 9 (BY EC)
13. RELIEF VENT & HEATER PROVIDED (BY FSC)

7 WALK-IN FREEZER M & E

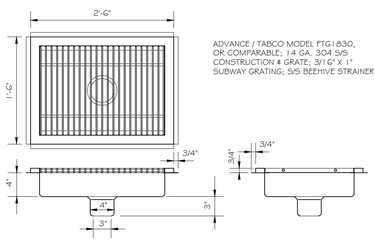
8 WALK-IN BOX; CONDENSATE LINES

9 FOOT PEDALS; HAND SINK



ADVANCE / TABCO MODEL FTG2424, OR COMPARABLE; 14 GA. 304 S/S CONSTRUCTION & GRATE; 3/16" X 1" SUBWAY GRATING; S/S BEEHIVE STRAINER

10 FLOOR TROUGH
(BY OTHER TRADES)



ADVANCE / TABCO MODEL FTG1830, OR COMPARABLE; 14 GA. 304 S/S CONSTRUCTION & GRATE; 3/16" X 1" SUBWAY GRATING; S/S BEEHIVE STRAINER

11 FLOOR TROUGH
(BY OTHER TRADES)

Montgomery Hoffman Associates
Food Facility Consultants
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655

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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

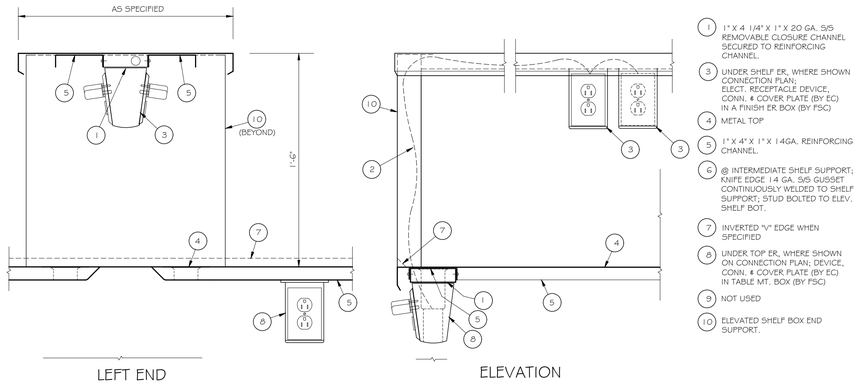
Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

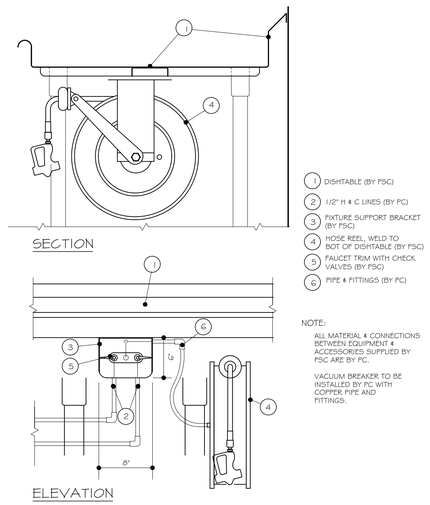
Sheet Title:
DETAILS

Sheet: **FS107**

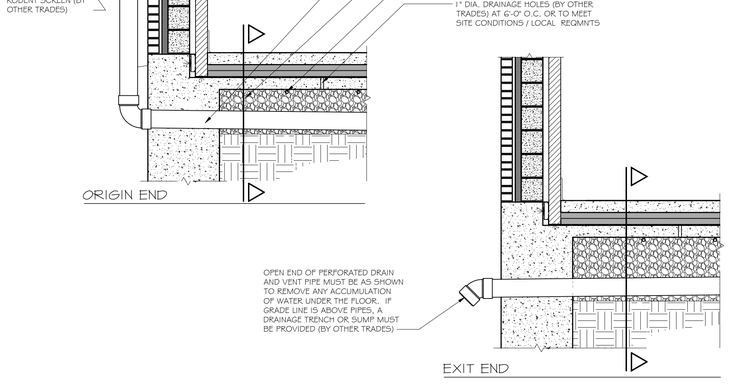
Of:



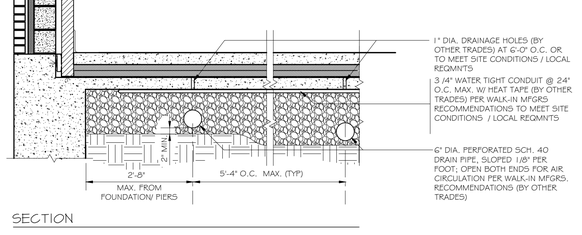
1 TYP. TABLE MOUNT ELECTRICAL BOXES

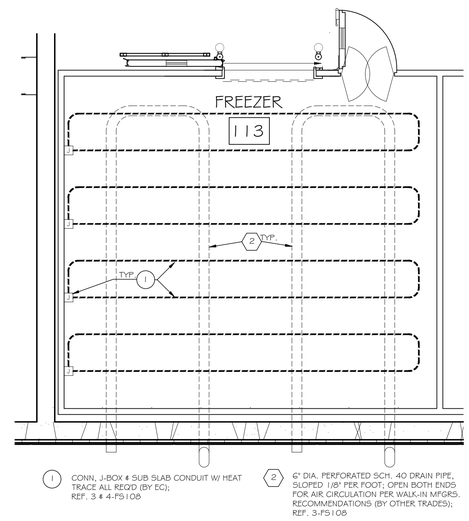


2 UNDER COUNTER HOSE REEL

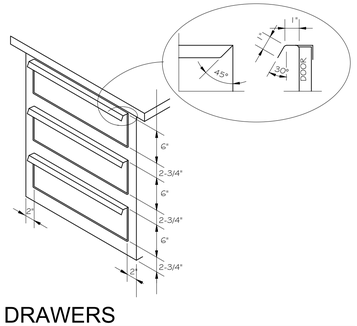


3 WALK-IN FREEZER SUB-GRADE VENTILATION / HEATERS

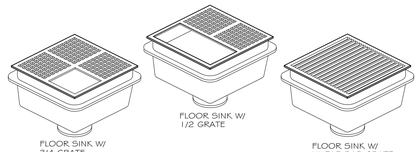




4 WALK-IN FREEZER SUB-GRADE VENTILATION / HTRS.

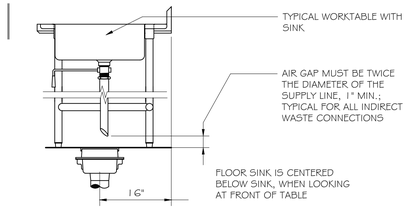


5 DRAWERS

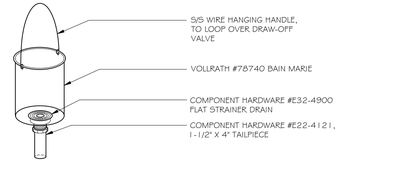


FLOOR SINKS & GRATES BY PLUMBING TRADE REF. PLAN FOR SIZE.

6 FLOOR SINK GRATES (BY OTHER TRADES)

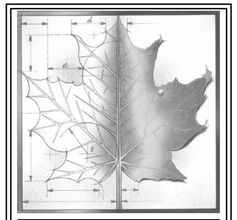


7 FLOOR SINK LOCATION



8 DRAW OFF DRAIN BUCKET

Montgomery Hoffman Associates
Food Facility Consultants
2400 SW 29th Street
Suite 122
Topeka, Kansas 66611
(785) 266-5696
Fax (785) 266-4655



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

REV	DESC	DATE

Project Number: **16036**

Date: **07/07/17**

Project Name:
USD 320 WAMEGO CENTRAL KITCHEN

Project Address:
US-24 AND COLUMBIA ROAD
WAMEGO, KS 66547

Sheet Title:
DETAILS

Sheet:
FS108

Of: